13 October 2006

Mr. Devender Narala
Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

Mr. Robert Boggs
Department of Toxic Substances Control
700 Heinz Avenue, Suite 200
Berkeley, CA 94710-2737

Subject: Semi-Annual Groundwater Monitoring Report, First and Second Quarters 2006, Presidio-Wide Quarterly Groundwater Monitoring Program, Presidio of San Francisco, California

Dear Devender and Robert:

Attached please find one hard copy and one electronic copy of the *Semi-Annual Groundwater Monitoring Report, First and Second Quarters 2006, Presidio-Wide Quarterly Groundwater Monitoring Program, Presidio of San Francisco (Volumes I and II)* prepared by Treadwell & Rollo for the Presidio Trust. This document is being submitted in accordance with Task 11 of the RWQCB Order R2-2003-0080.

Please feel free to call me at 415-561-4259 if you have any questions and/or comments.

Sincerely,
The Presidio Trust

Craig Cooper
Remediation Program Manager

Enclosure

cc: Brian Ullensvang, NPS
Doug Kern, RAB (electronic only)

SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2006
PRESIDIO-WIDE GROUNDWATER MONITORING PROGRAM
PRESIDIO OF SAN FRANCISCO, CALIFORNIA

Prepared For:

The Presidio Trust
34 Graham Street, P.O. Box 29052
San Francisco, California 94129-0052
415/561-5300 fax 561-5315

Prepared By:

Treadwell & Rollo, Inc.
555 Montgomery Street, Suite 1300
San Francisco, California 94111
415/955-9040 fax 955-9041

October 2006

Dorinda C. Shipman, P.G., C.HG., Treadwell & Rollo, Inc.

10/13/06
Date

PROFESSIONAL GEOLOGIST
DORINDA SHIPMAN
NO. 215
CERTIFIED HYDROGEOLOGIST
STATE OF CALIFORNIA

Joshua D. Graber, Treadwell & Rollo, Inc.

10/13/06
Date

SEMI-ANNUAL GROUNDWATER MONITORING REPORT
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Presidio of San Francisco, California

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SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2006
PRESIDIO-WIDE GROUNDWATER MONITORING PROGRAM
Presidio of San Francisco, California

List of Acronyms and Abbreviations

Action Plan	*Commissary Seeps Interim Source Removal Action Plan*
ANL	Argonne National Laboratory
Army	United States Department of Defense, Department of the Army
As III	pentavalent arsenic or arsenate
As V	trivalent arsenic or arsenite
AST	aboveground storage tank
BBDA 3	Baker Beach Disturbed Area 3
BGMP	Basewide Groundwater Monitoring Program
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
°C	degrees Celsius
CAP	Corrective Action Plan
CCR	*Construction Completion Report for Landfill 4 and Fill Site 5*
CD	compact disk
CDHS	California Department of Health Services
Chaudhary	Chaudhary and Associates
Chromalab	STL Chromalab
cis-1,2-DCE	cis-1,2-dichloroethene
Cleanup Levels Document	Development of Presidio-wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water
Coast Guard Station	former U. S. Coast Guard Station
COC	Contaminant of Concern
COPC	Compound of Potential Concern
CPT	cone penetrometer test

List of Acronyms and Abbreviations (continued)

CTR	California Toxics Rule
Curtis & Tompkins	Curtis & Tompkins, Ltd.
CWA	Clean Water Act
DAF	dilution attenuation factor
DataVal	DataVal, Inc.
DCA	dichloroethane
DCE	dichlorethene
DEH	Directorate of Engineering and Housing
DEH RAP	*Directorate of Engineering and Housing (DEH) Study Area, Evaluation of Remedial Alternatives and Draft Remedial Action Plan (RAP)*
DO	dissolved oxygen
DTSC	California Environmental Protection Agency, Department of Toxic Substances Control
DUP	duplicate
DVSR	*Data Validation Summary Report for the Presidio Trust Groundwater Monitoring*
EDD	electronic data deliverable
EKI	Erler & Kalinowski, Inc.
EPA	United States Environmental Protection Agency
ERB	equipment rinsate blank
FDS	fuel distribution system
Fe	iron
FFS	Focused Feasibility Study
FPALDR	*Fuel Product Action Level Development Report*
FS	Feasibility Study
FS 5	Fill Site 5
FS 6A	Fill Site 6A
FS 6B	Fill Site 6B
FSP	Field Sampling Plan
FYR/WP	*Five-year Review and Field Investigation Work Plan for Landfills 8 and 10*

List of Acronyms and Abbreviations
(continued)

GC/MS	gas chromatograph/mass spectrometer
GGTR	Golden Gate Tank Removal
GGTS	Golden Gate Tidal Station
Golder	Golder Associates
gpm	gallon per minute
GPS	global positioning system
Hg	mercury
ICP	inductively coupled plasma
IT	International Technology Corporation
LF 4	Landfill 4
LUCs	Land Use Controls
MBAS	methylene blue active substances
MCL	Maximum Contaminant Level
µg/dl	micrograms per deciliter
µg/kg	micrograms per kilogram
µg/L	micrograms per liter
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
Mini-CAP Report	*Mini-CAPs Site Reviews and Recommendations to Address Former Petroleum Release Sites* Report
MS	mass spectrography confirmation
MS/MSD	matrix spike/matrix spike duplicate
MTBE	methyl tertiary-butyl ether
NDMA	N-nitrosodimethylamine
NGVD29	National Geodetic Vertical Datum of 1929
NOAA	National Oceanic and Atmospheric Administration
NPS	United States Department of the Interior, National Park Service
OCP	organochlorine pesticides
ORC	Oxygen Release Compound
PAH	polycyclic aromatic hydrocarbon

List of Acronyms and Abbreviations
(continued)

PALs	Performance Acceptance Limits
PBDE	polybrominated diphenyl ether
PCB	polychlorinated biphenyl
PCE	tetrachloroethene
PCOC	Potential Contaminant of Concern
PHSH	Public Health Service Hospital
PHSH ROD	Public Health Service Hospital Record of Decision
PLLW	Presidio Lower Low Water
POL	petroleum oil and lubricants
Presidio	Presidio of San Francisco
PX	Post Exchange
QAPP	*Presidio-wide Quality Assurance Project Plan Sampling and Analysis Plan*
QA/QC	quality assurance/quality control
QC	quality control
RAB	Restoration Advisory Board
RAP	Remedial Action Plan
Redox	reduction/oxidation
RI	Remedial Investigation
ROD	Record of Decision
RPD	relative percent difference
RU	Remedial Unit
RWQCB	California Environmental Protection Agency, Regional Water Quality Control Board, San Francisco Bay Region
SCRs	Site Cleanup Requirements
SDG	Sample Delivery Group
SDWA	Safe Drinking Water Act
Sequoia	Sequoia Analytical
SI	Site Investigation
SOP	Standard Operating Procedure
SVOC	semivolatile organic compound

List of Acronyms and Abbreviations
(continued)

TB	trip blank
TCE	trichloroethene
TCP	1,2,3-trichloropropane
TDS	total dissolved solids
THR	Tennessee Hollow Restoration
TMB	trimethylbenzene
Towill	Towill, Inc.
TOC	total organic carbon
TPH	total petroleum hydrocarbons
TPHfo	total petroleum hydrocarbons as fuel oil
TPHg	total petroleum hydrocarbons as gasoline
TPHd	total petroleum hydrocarbons as diesel
TPHmo	total petroleum hydrocarbons as motor oil
TPHss	total petroleum hydrocarbons as stoddard solvent
Treadwell & Rollo	Treadwell & Rollo, Inc.
Trust	The Presidio Trust
TSS	total suspended solids
μg/L	micrograms per Liter
UST	underground storage tank
VOC	volatile organic compound

SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2006
Presidio of San Francisco, California

E.1 EXECUTIVE SUMMARY

The Presidio-Wide Quarterly Groundwater Monitoring Program continued, with modifications, during the First and Second Quarters 2006. The First Quarter 2006 sampling event began on 6 March and was completed on 29 March 2006. The Second Quarter 2006 sampling event began on 23 May and was completed on 30 May 2006. This executive summary serves as a semi-annual summary of the groundwater monitoring program at the Presidio for the first half of 2006.

E.1.1 Changes to the Quarterly Groundwater Monitoring Program, First and Second Quarters 2006

Several modifications to the Presidio-wide Quarterly Monitoring Program were implemented during the First and Second Quarters 2006. Changes to the monitoring program are depicted in red text in Tables 1A and 1B. The majority of the changes were associated with reductions in sampling frequency at sites with decision documents in place. All changes approved for the First and Second Quarters 2006 are summarized below and are detailed in Tables 1A and 1B, respectively.

E.1.1.1 First Quarter 2006

The following changes were approved and implemented during the First Quarter 2006, as detailed in Table 1A.

Sampling Method Modifications

No monitoring well, piezometer, or seep sampling method modifications were proposed during the First Quarter 2006.

Analytical Additions and Reductions

Several changes in the sampling and analytical program scope were approved for the First Quarter 2006. The following changes were approved and implemented during the First Quarter 2006, as detailed in Table 1A.

- Chlorinated herbicide analysis was removed from the Landfill 8 monitoring program due to a lack of detections. Measurement for ORP by field probe, for the evaluation of redox conditions, was added to the Landfill 8 monitoring program.

- Chlorinated herbicide analysis was removed from the Building 1349 Area monitoring program within monitoring wells 1349MW02, 1349MW03R, and 1349MW100 through 1349MW102 due to a lack of significant detections, in accordance with the Fill Site 5 RAP. Measurement for ORP by field probe, for the evaluation of redox conditions, was added to the Building 1349 Area monitoring program.

- Chlorinated herbicides and PCB analyses were removed from Fill Site 5 monitoring program within monitoring wells LF5GW100 through LF5GW104 due to a lack of detections, in accordance with the Fill Site 5 RAP. In addition PCB analysis was removed from the monitoring program at the surface water seep LF5SP100 due to a lack of detections, in accordance with the Fill Site 5 RAP. Measurement for ORP by field probe, for the evaluation of redox conditions, was added to the Fill Site 5 monitoring program for monitoring wells LF5GW100 and LF5GW101.

- Landfill 4 monitoring wells have met the post-remediation RAP requirements for TPH, PAHs, VOCs, OCPs, and chlorinated herbicides for the required frequency of monitoring and therefore, these analytical compounds are no longer include in the monitoring program at Landfill 4. General chemistry parameters, dissolved metals, TDS, and PCBs met the RAP post-remediation requirements within Landfill 4 monitoring wells LF04GW03, LF4GW100 through LF4GW102, LF4GW105 and LF4GW106, and therefore, these analytical compounds are no longer included in the Landfill 4 monitoring program for these wells. However, due to recent cleanup level exceedances for nickel and aroclor 1260, and fluctuating general chemistry parameters within monitoring wells LF4GW103 and/or LF4GW104, these analytical compounds will continue to be monitored on an annual basis (except for PCBs which will be semi-annual) within these wells.

- Dissolved gases were removed from the Commissary/PX Area monitoring program for the evaluation of redox conditions in accordance with recommendations from the *Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites* (MACTEC, 2006). Measurement for ORP by field probe, for the evaluation of redox conditions, was added to the Commissary/PX Area monitoring program.

- Chlorinated herbicide analysis was removed from the Landfill E monitoring program due to a lack of detections. Measurement for ORP by field probe was added to the list of parameters for monitoring well DAEGW07. Groundwater sampling frequency at the Landfill E seep DAESP03 was increased to quarterly to assess seasonal and variable conditions.

- Semi-annual measurement for ORP by field probe was added to the list of parameters for monitoring well NKGW03 at the Nike Facility.

- At the request of the DTSC, piezometer BB3PZ102 and surface water location BB3SW104 were added to the Baker Beach Disturbed Area 3 monitoring program to evaluate downgradient and surface water dissolved and total metal concentrations. TPHg, TPHd, and TPHmo analyses were reduced to semi-annual in surface water locations BB3SW101 and BB3SW102, in accordance with the RAP, as TPH has not been detected at these locations during the last four quarters.

- Measurement for ORP by field probe, for the evaluation of redox conditions, was added to the Battery Howe/Wagner monitoring program.

- Dissolved gases for the evaluation of redox conditions was removed from the Fill Site 6A/6B Area monitoring program, in accordance with recommendations from the *Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites* (MACTEC, 2006). Measurement for ORP by field probe, for the evaluation of redox conditions, was added to all monitoring wells in the Fill Site 6A/6B Area monitoring program.

- Dissolved gases for the evaluation of redox conditions was removed from the Building 1065 Area monitoring program, in accordance with recommendations from the *Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites* (MACTEC, 2006). Measurement for ORP by field probe, for the evaluation of redox conditions, was added to all piezometers and monitoring wells in the Building 1065 Area.

- Dissolved gases for the evaluation of redox conditions was removed from the Building 207/231 Area monitoring program, in accordance with recommendations from the *Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites* (MACTEC, 2006). Measurement for ORP by field probe, for the evaluation of redox conditions, was added to all piezometers and monitoring wells in the Building 207/231 Area.

- One round of confirmation sampling for PAHs was added to the Mini-CAP Area wells list of analyses to confirm previous sampling where PAH laboratory reporting limits were greater than cleanup levels. In addition, one round of confirmation sampling for VOCs was added to the monitoring well 1231GW101 list of analyses to confirm the presence of VOCs.

E.1.1.2 Second Quarter 2006

The following changes were approved and implemented during the Second Quarter 2006, as detailed in Table 1B.

Sampling Method Modifications

No monitoring well, piezometer, or seep sampling method modifications were proposed during the Second Quarter 2006.

Analytical Additions and Reductions

There were some additions and a minor reduction in the sampling and analytical program scope approved prior to the Second Quarter 2006, as detailed below.

- At the El Polin Spring, cyanide analysis was reduced to annual sampling because it has not been detected since 1994. TDS analysis was reduced to annual sampling based on a lack of significant detections.

- TPH, PAHs, VOCs, PCBs, general chemistry parameters, TDS, and dissolved metals have met their post-remediation groundwater monitoring requirements and cleanup levels per the Fill Site 5 RAP for the required frequency of monitoring events within all Fill Site 5 monitoring wells and monitoring wells 1349MW03R, 1349MW101, and 1349MW102 prior to the Second Quarter 2006. The Trust requested the cessation of these parameters from the Fill Site 5 monitoring program prior to the Second Quarter 2006. The monitoring of OCPs will continue until the Colma backfill soil sampling has been conducted.

- PAH and VOC analyses within Commissary/PX Area monitoring well 600GW108 were reduced to annual within the First Quarter. PAHs have never been detected and VOC detections have not been significant in the last four quarters within 600GW108. Total organic carbon was removed from the Commissary/PX Area monitoring program in accordance with recommendations from the *Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites* (MACTEC, 2006).

- Baker Beach Disturbed Area 1 and 2A were added to the groundwater monitoring program prior to the Second Quarter 2006. Two piezometers (BB1PZ100 and BB1PZ101) and one surface water seep (BB2ASW100) were scheduled to be sampled quarterly for general chemistry parameters, dissolved and total metals, OCPs, PAHs, TPHd, and TPHfo.

- The sampling frequency for dissolved metals and general chemistry parameters were increased to quarterly analysis within Battery Howe/Wagner monitoring wells for comparison to data collected from new upgradient wells 1213GW101 and 1221GW104 in the Mini-CAP Area.

- Total organic carbon was removed from the Fill Site 6A/6B Area monitoring program in accordance with recommendations from the *Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites* (MACTEC, 2006).

- Total organic carbon was removed from the Building 1065 Area monitoring program in accordance with recommendations from the *Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites* (MACTEC, 2006).

- Total organic carbon was removed from the Building 207/231 Area monitoring program in accordance with recommendations from the *Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites* (MACTEC, 2006).

- VOC analysis was increased to quarterly beginning in the Second Quarter 2006, based on VOCs detections within Mini-CAP Area monitoring well 1213GW101 during the First Quarter 2006. BTEX and MTBE are included on the VOC list and were therefore removed as a separate analysis. The PAH fluoranthene was detected within monitoring wells FMI4EX07GW102 and 514AGW101 during the First Quarter 2006, therefore wells with PAH detections were scheduled for analysis on a quarterly basis beginning in the Second Quarter 2006.

- Landfill 10 monitoring well LF10GW02 and surface water seep LF10SP01 were scheduled for sampling during the Second Quarter 2006 because they could not be accessed during the First Quarter 2006 due to overgrown vegetation. TPH analysis was increased to quarterly beginning in the Second Quarter 2006 due to recent detections in Landfill 10 monitoring wells.

E.1.2 Arsenic and Redox Evaluations

Arsenic speciation, dissolved gases and total organic carbon analyses, for the evaluation of redox conditions, were removed from the Presidio-wide groundwater monitoring program, in accordance with recommendations from the *Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites* (MACTEC, 2006).

Additionally, the *Technical Memorandum, Evaluation of Arsenic and Other Metals in Groundwater at Three Corrective Action Plan Sites, Presidio of San Francisco, San Francisco, California* (MACTEC, 2006), concluded that ORP is a good indicator for evaluating changing redox conditions. Temperature, pH and ORP data were added to the Building 1349 Area, Building 231/207 Area, Building 1065 Area and the Commissary/PX Area groundwater monitoring programs as a field measurements and will be used in the ongoing redox evaluations at CAP sites.

ORP was to further aid in evaluating groundwater redox conditions.

E.1.3 Significant Observations and Accomplishments in First and Second Quarters 2006

Significant changes or trends in groundwater characteristics and chemistry as well as significant site-specific milestones are discussed below. Changes to proposed site-specific sampling schedules are discussed in the site-specific sections of Appendix A.

E.1.3.1 Building 900s Area (Appendix A-1)

Groundwater elevations, gradients, and flow directions during First and Second Quarters 2006 are consistent with historical values and interpretations. VOC concentrations detected during the First Quarter 2006 did not exceed their respective RAP-specified cleanup levels. The majority of VOC concentrations detected during the First Quarter 2006 were within the range of previously detected concentrations. The only monitoring well with significantly higher VOC concentrations was shallow well 950GW108, which had a higher concentration of total 1,2-DCE detected than in any previous monitoring event.

The relative concentration ratios of TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride within Building 900s groundwater samples continue to indicate that natural biodegradation processes are occurring. The ratios of TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride will continue to be monitored in future events.

TPHg and TPHd were detected in the shallow monitoring well 937GW108 sample at concentrations of 140 and 55 µg/L, respectively. The detected TPH concentrations within 937GW108 were at or near their lowest historical concentrations. TPHd was detected for the first time at 950GW108, but only in the duplicate sample at a concentration of 120 µg/L.

The sampling frequency at the Building 900s Area will continue to be annual per the Crissy Field RAP. The first five-year review will be completed in 2007.

E.1.3.2 Landfill 8 (Appendix A-2)

Groundwater elevations, gradients, and flow directions during First and Second Quarters 2006 are consistent with historical values and interpretations. The five Landfill 8 monitoring wells were sampled and analyzed during the First Quarter 2006 (annual basis) according to the proposed sampling schedule. Most general chemistry results from the First Quarter 2006 were within the range of previously detected concentrations within Landfill 8 Area monitoring wells.

Cyanide was detected in the duplicate sample collected from LF08GW04 at a concentration of 0.03 mg/L, slightly above the detection limit of 0.01 mg/L. Cyanide has been detected only three times since groundwater monitoring began in the mid-1990s. Groundwater samples from Landfill 8 monitoring wells LF08GW04 (0.03 mg/L) from the First Quarter 2006 and LF08GW06 (0.02 J- mg/L) from the Third Quarter 2003 exceed the applicable cleanup level for

cyanide of 0.0052 mg/L. Future detections of cyanide will continue to be monitored and trends identified as they become apparent.

Sulfide results for Landfill 8 monitoring well samples collected during the First Quarter 2006 were rejected during data validation due to a MS/MSD percent recovery failure.

No OCPs, PCBs, or chlorinated herbicides were detected in the Landfill 8 groundwater samples collected during First Quarter 2006, nor have they been historically detected above the laboratory reporting limits. VOCs were not detected in Landfill 8 groundwater samples collected during the First Quarter 2006.

No other significant trends or observations were identified at Landfill 8 during First Quarter 2006. The sampling frequency at Landfill 8 has been reduced to annual monitoring, until the Landfill 8 RAP is finalized and implemented. Sampling at Landfill 8 will then be performed per the Landfill 8 RAP requirements.

E.1.2.3 Fill Site 6 (Appendix A-3)

Groundwater elevations, gradients, and flow directions are consistent with historical values and interpretations. No significant trends or observations were identified at FS 6 during the First and Second Quarters 2006.

No RAP-specified cleanup levels were exceeded during either the First or Second Quarters 2006 within the FS 6 wells sampled.

TPHd was detected within well LF6GW103 at a concentration of 76 µg/L during the Second Quarter 2006. TPHd continues to remain below the RAP cleanup levels to date within FS 6 monitoring wells.

No OCPs or PCBs were detected within FS 6 monitoring wells during the First and Second Quarters 2006. However, aldrin was detected in monitoring well LF6GW103 in the Third Quarter 2005 at a concentration of 0.05 µg/L and dieldrin was detected in well LF6GW100 at a concentration of 0.1 µg/L. These levels exceeded the FS 6 RAP-specified cleanup level; therefore, OCP concentrations will continue to be evaluated during future sampling events.

No PAHs were detected in FS 6 wells during the First and Second Quarters 2006.

Several new high or low concentrations of dissolved metals were detected within FS 6 samples during the First Quarter 2006. However, the majority of the metal concentrations detected were generally within historical ranges.

Dissolved oxygen, nitrate, nitrite, sulfate, sulfide, and TOC were measured during the First and Second Quarters 2006. At many locations, these parameters were only measured for the first or

second time, therefore these parameters should continue to be monitored during future sampling events to identify apparent trends.

E.1.2.4 Battery Howe/Wagner (Appendix A-4)

Groundwater elevations, gradients, and flow directions during First and Second Quarters 2006 are consistent with historical values and interpretations. The five Battery Howe/Wagner monitoring wells were sampled and analyzed during the First and Second Quarter 2006 without any significant findings. The majority of dissolved metals and general chemistry results were within the range of previously detected concentrations for Battery Howe/Wagner monitoring wells and are not considered significant.

The VOCs results for the First Quarter 2006 are similar to historical trends with low levels of tetrachloride and chloroform detected in monitoring well BHWGW01 and 1,1-DCE detected in monitoring well HWGW100. In general, the majority of compound concentrations detected were within historical ranges. Analytes that were outside of historical bounds can generally be attributed to natural fluctuations.

E.1.2.5 Building 1349 Area (Appendix A-5)

Nine Building 1349 monitoring wells were sampled during the First Quarter 2006. Monitoring well 1349MW100 was the only well sampled during the Second Quarter 2006.

The Building 1349 Area CAP was finalized and submitted to the stakeholders in February 2006. Groundwater sampling at the Building 1349 Area will be conducted in accordance with the CAP when the CAP is implemented. The recommended corrective actions for the Building 1349 Area are detailed in the CAP and are summarized in Section 3.0.

TPHg was detected above its Building 1349 Area CAP cleanup level during the First Quarter 2006 at 1349MW100. TPHd was also detected within this well above its Building 1349 Area CAP cleanup level during both the First and Second Quarters 2006. TPHd concentrations continue to exceed groundwater cleanup levels within monitoring well 1349MW100, and both TPHg and TPHd continue to fluctuate significantly from one sampling event to the next at this location.

OCPs continue to be detected within monitoring well 1349MW100. During the First Quarter 2006, alpha-chlordane and gamma chlordane were detected at new high concentrations. Additional detections included 4,4'-DDD, aldrin, delta-BHC, dieldrin, heptachlor, and heptachlor epoxide, which were detected within the historical concentration ranges for these compounds at this well. During the Second Quarter 2006, heptachlor epoxide was detected at a new high concentration, and 4,4'-DDT, aldrin and alpha-chlordane were also detected. Some of these detected concentrations exceeded both the concentrations of OCPs previously detected in 1349MW100, and the applicable cleanup levels as outlined in the CAP (BBL, 2006). OCPs have

been detected in the past in monitoring wells 1349MW03R, 1349MW101, and 1349MW102, which are generally downgradient of monitoring well 1349MW100. However, OCPs have not been detected within any of these wells for at least five sampling events.

Dissolved arsenic, iron, and manganese have been detected in monitoring well 1349MW100 samples at concentrations generally higher than within the other Building 1349 monitoring wells. Arsenic is commonly found in the natural environment and is often present in combination with iron and manganese oxides. Arsenic has also been detected at elevated concentrations in monitoring well 1349MW105, although not in association with elevated concentrations of manganese or iron.

Arsenic, iron and manganese are generally more soluble and mobile under reducing conditions. A reducing environment likely exists within 1349MW100 due to the degradation of petroleum hydrocarbons present at this well. This chemical process is likely contributing to the elevated levels of dissolved arsenic, iron and manganese within 1349MW100. Future detections and concentration trends of these compounds will continue to be monitored and evaluated.

Building 1349 Area monitoring wells will continue to be sampled in accordance with the Building 1349 Area CAP, and results evaluated against the Building 1349 Area CAP cleanup levels.

E.1.2.6 Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, and Upgradient Wells (Appendix A-6)

No significant trends were observed during the First and Second Quarters 2006. The sampling frequency at Fill Site 1 and Landfill 2 has been reduced to annual (Tables 1A and 1B) until a decision document is approved. Due to four consecutive quarters of non-detect results, monitoring wells 100GW101 and 104GW101 were removed from the sampling schedule following the First Quarter 2004. Abandonment of these wells will be proposed in the pending Group II Mini-CAP document.

Annual analysis of 22 dissolved metals will continue to be conducted at El Polin Spring for the purpose of comparing surface water analytical results to nearby groundwater results and evaluating the potential for human exposure. No additional changes to the groundwater monitoring program have been proposed at this site.

E.1.2.7 Landfill E (Appendix A-7)

Groundwater elevations, gradients, and flow directions are consistent with historical values and interpretations. No significant trends or observations were identified at Landfill E during the First and Second Quarters 2006.

During the First Quarter 2006, the samples collected from DAEGW101 and DAEGW104 had a reported concentration of TPHd of 65 and 54 µg/L, respectively. TPHd was also detected at

similar concentrations in samples from DAESP03. TPHd was previously detected in DAEGW104 in the First Quarter 2005, but was not previously present at DAEGW101. No other TPH was detected above the laboratory reporting limit in any other samples collected from Landfill E monitoring wells during the First Quarter 2006.

No VOCs, PAHs, OCPs, or PCBs were detected within any of the groundwater samples collected from Landfill E monitoring wells during the First Quarter 2006.

A FFS has been prepared for Landfill E. The reduction to annual sampling at monitoring wells DAEGW03 through DAEGW08 until a Landfill E RAP have been finalized was approved by the stakeholders prior to First Quarter 2004. Sampling will be performed per the RAP once it has been finalized and implemented.

E.1.2.8 Landfill 4 (Appendix A-8)

General chemistry parameters at the site have remained relatively stable.

One PCB aroclor 1260 was detected above the RAP cleanup level in the LF4GW104, QC duplicate sample in the Third Quarter 2005. No other PCB detections have occurred in any LF 4 groundwater samples.

Dissolved metals concentrations at the site have remained relatively stable The potential for increasing or decreasing dissolved nickel concentrations within monitoring wells LF4GW103 and LF4GW104 will continue to be evaluated in future monitoring events, in accordance with the RAP.

With the exception of beta-BHC, PCB aroclor 1260, and nickel, no RAP-specified cleanup levels have been exceeded within LF 4 monitoring well samples to date.

No significant trends were observed in the samples collected during the First and Second Quarters 2006.

E.1.2.9 Fill Site 5 (Appendix A-9)

No PCBs were detected above their respective RAP-specified cleanup levels within any FS 5 or associated Building 1349 Area monitoring wells during the First or Second Quarters 2006.

Several OCP, PAH, and TPH compounds were detected in the upgradient Building 1349 monitoring well 1349MW100 samples during the First and Second Quarters 2006. FS 5 RAP cleanup levels do not apply to upgradient Building 1349 monitoring wells.

Per the FS 5 RAP, the reduction to semi-annual sampling for VOCs and PAHs within FS 5 monitoring wells (LF5GW100 through LF5GW104) was approved in the Fourth Quarter 2004 because no RAP-specified cleanup levels have been exceeded in at least four quarters for any of

these compounds within any FS 5 monitoring well samples. In addition, TPH, PAHs, VOCs, PCBs, chlorinated herbicides, general chemistry parameters, TDS, and dissolved metals met the post-remediation groundwater monitoring requirements and cleanup levels from the FS 5 RAP within 1349MW03R, 1349MW101, and 1349MW102 in the First Quarter 2006. Subsequently, the Trust requested cessation of these analytical compounds from the Groundwater Monitoring Program at FS 5/Building 1349 (including 1349MW03R, 1349MW101, and 1349MW102), prior to the Second Quarter 2006. These three wells will however be monitored in the future under the Building 1349 Area CAP upon its finalization.

E.1.2.10 Building 231/207 Area (Appendix A-10)

All Building 231/207 Area monitoring wells and piezometers were sampled during the First Quarter 2006 and monitoring well 231MW09 was the only monitoring well purged and sampled during the Second Quarter 2006.

The Draft Building 231/207 CAP was submitted to the stakeholders in 2005 for regulatory review. The CAP-specified cleanup levels have been compared to the First and Second Quarter 2006 groundwater data and are posted on Tables A-10-2, A-10-3, A10-5, and A-10-6. TPHg, TPHd, TPHfo, benzene, ethylbenzene, total xylenes, dissolved arsenic, lead and nickel were all detected at concentrations greater than their CAP-specified cleanup levels during the First Quarter 2006. Monitoring wells 231GW09, 231GW10, 231GW13, 231GW21, 231GW22, 231GW25, and piezometers 231PZ01 through 231PZ04 all had at least one detected concentration, of the above contaminants, in excess of CAP-specified cleanup levels. Specific contaminant levels and groundwater exceedances are discussed in detail in Section 6.0 of Appendix A-10.

Concentrations of TPH and VOCs within Building 231/207 Area monitoring wells continue to fluctuate within historical bounds.

E.1.2.11 Building 1065/1027 Area (Appendix A-11)

Dissolved arsenic and iron concentrations were observed to drop during the Fourth Quarter 2004 within 1065PZ1A and 1065PZ2A, which are located downgradient of the interim removal action conducted in November 2003. The drop in concentration during the Fourth Quarter 2004 was believed to be a result of the interim remedial action. However, a rebound in arsenic and iron concentrations within these piezometers is currently occurring. Dissolved arsenic and iron concentrations will continue to be monitored downgradient of the interim removal action and new trends will be identified as they become apparent.

Potential changes to the groundwater flow patterns and any potential impact to contaminant migration will continue to be evaluated in future quarterly monitoring events.

Groundwater sampling frequency was reduced to annual within all Building 1065/1027 Area wells and piezometers, except 1065PZ1A, 1065PZ1B, 1065PZ2A, 1065PZ4A, 1065PZ5AR, 1065MW9A, 1065MW9B, 1065MW101, 1065MW102, and 1047MW101 until the Building 1065/1027 Area CAP is approved and implemented, at which time the groundwater monitoring program will be conducted in accordance with the CAP.

E.1.2.12 Mini-CAP Areas (Appendix A-12)

Groundwater cleanup levels for benzene, 1,2-dichloroethane and chromium were exceeded on five occasions, all from groundwater sample concentrations collected from monitoring well 1213GW101. In both the First and Second Quarters 2006, benzene was detected in monitoring well 1213GW101 at concentrations of 1.5 and 8.5 µg/L, respectively. These concentrations exceed the groundwater cleanup level of 1 µg/L. The groundwater cleanup level also was exceeded during the First and Second Quarters 2006 for 1,2-DCA, which was detected at concentrations of 5.8 to 8.9 and 6.6 to 9.6 µg/L, respectively, in the primary and duplicate samples from monitoring well 1213GW101.

During the First Quarter 2006, TPHg was detected below the 770 µg/L cleanup level within 1213GW101 and 1221GW102 at 230 and 87 µg/L, respectively. The concentration of TPHg decreased to 68 µg/L in monitoring well 1213GW101 during the Second Quarter 2006. During the First Quarter 2006, TPHd was detected below the 880 µg/L cleanup level within monitoring wells 1213GW101, 1221GW102 and 1260GW102, at concentrations of 61, 53, and 88 µg/L, respectively. The TPHd concentration in monitoring well 1213GW101 decreased from 61 µg/L to <50 µg/L during the Second Quarter 2006. MTBE was detected below the 13 µg/L cleanup level during the First Quarter 2006 in monitoring wells 514AGW101 and FM14EX07GW102, at concentrations of 3.6 and 2.3 µg/L, respectively.

During the Second Quarter 2006, chromium was detected in the primary sample from monitoring well 1213GW101 at a concentration of 54 µg/L, which exceeds the cleanup level of 50 µg/L.

TPH, BTEX, MTBE, VOCs, and dissolved metals analysis will be conducted during future sampling events to develop a baseline of data and evaluate concentration trends for the Mini-CAP Area monitoring wells.

E.1.2.13 Nike Missile Facility (Appendix A-13)

Groundwater elevations, gradients, and flow directions during the First and Second Quarters 2006 are consistent with historical values and interpretations. NDMA was detected above laboratory limits within three of the five Nike Missile Facility monitoring wells sampled during the First Quarter 2006. All detected concentrations of NDMA exceed the EPA's Preliminary Remedial Goal (PRG) for tap water of 0.0013 µg/L, but none of the detected results exceed the CDHS notification level of 0.01 µg/L.

NDMA will continue to be sampled within all Nike Missile Facility monitoring wells during the first and third quarter sampling events to establish a baseline of data. The addition of field QC blanks for NDMA will be added to this program in the First Quarter 2007 in order to comply with the QAPP and guard against unknown field contamination of the sample. A RAP is currently being prepared for the Nike Missile Facility and a revised groundwater monitoring plan will be implemented, in accordance with the RAP, when it is approved by the DTSC, RWQCB, and other stakeholders. There are no other proposed changes to the groundwater monitoring program at this site.

E.1.2.14 Baker Beach Disturbed Area 3 (Appendix A-14)

Chromium was detected above its RAP-specified cleanup level of 50 µg/L within BB3SW102 during the First and Second Quarters 2006. No other analytes were detected at concentrations above their respective RAP cleanup levels during either the First or Second Quarters 2006.

At DTSC's request, an additional piezometer (BB3PZ102) and seep location (BB3SW104) are also now sampled. No significant trends were identified during the First and Second Quarters 2006 at BBDA 3. Future detections and trends will continue to be monitored and evaluated in accordance with the RAP.

E.1.2.15 Landfill 10 (Appendix A-15)

MTBE was detected for the fifth time in monitoring well LF10GW100 during the First Quarter 2006 at a concentration of 2.1 µg/L. However, MTBE has never been detected above its Drinking Water Cleanup Level of 13 µg/L, as listed in the Cleanup Levels Document (EKI, 2003), within LF10GW100 and therefore, these detections do not appear to be significant.. Additionally, clear trends in MTBE concentrations or geographic distribution have not been identified and this detection may not represent an impact to groundwater from Landfill 10. No other significant trends or observations were identified at Landfill 10 during the First and Second Quarters 2006.

Monitoring well LF10GW02 and seep LF10SP100 were not sampled during either the First or Second Quarters 2006 due to overgrown vegetation and health and safety issues. These locations will be sampled following a vegetation clearing effort by the Trust.

The *Five Year Review and Final Investigation Report for Landfills 8 and 10* (FYR) was submitted to the regulatory agencies and RAB in January 2004. The FFS for Landfills 8 and 10 has been prepared. Additionally, the Trust is currently preparing a RAP and designing new remedial actions for the two landfill sites. The RAP is scheduled to be completed in 2007.

E.1.2.16 Commissary/PX Area (Appendix A-16)

Dissolved copper was detected at a new high concentration of 3.1 µg/L within the sample collected from 600GW108. Dissolved nickel was detected at a new high concentration of 8.3 µg/L within the sample collected from 610GW103. These detections were the only exceedances of the Commissary/PX Area cleanup levels for dissolved metals during the First and Second Quarters 2006.

Total aluminum, calcium, chromium, iron, lead, magnesium, nickel, potassium and sodium, were all detected at new low concentrations within both seeps during the First Quarter 2006. Additionally, zinc was detected at a new low concentration within surface water seep 610SP01, and manganese was detected at a new low concentration within surface water seep 610SP02. The majority of total metals appear to be decreasing in concentration. Specific trends will be identified in future monitoring events as they become apparent.

No PAHs, VOCs, MTBE, or TPH compounds were detected above their applicable cleanup levels during either the First or Second Quarters 2006. No other significant findings or data trends were observed during either the First or Second Quarters 2006.

The Revised Final Commissary/PX Area CAP was approved by the RWQCB in June 2006 and Phase I of CAP implementation is currently underway. Once Phase I of the CAP is completed, groundwater monitoring will be conducted in accordance with the Revised Final CAP.

E.1.2.17 Baker Beach Disturbed Areas 1 and 2A (Appendix A-17)

BBDAs 1 and 2A were added to the Presidio-Wide Groundwater Monitoring Program beginning Second Quarter 2006. No groundwater has been encountered at BBDAs 1 and 2A, however, two piezometers (BBDA1PZ100 and BB1PZ101) monitor a fresh water seep at BBDA 1 and one seep location is monitored at BBDA 2A (BB2ASW100).

Due to limited data collected to date, no significant trends were identified during the Second Quarters 2006 at BBDAs 1 and 2A. Future detections and trends will continue to be monitored and evaluated in accordance with the RAP, which is scheduled to be completed in 2007.

SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2006
PRESIDIO-WIDE GROUNDWATER MONITORING PROGRAM
Presidio of San Francisco, California

1.0 INTRODUCTION

This Semi-Annual Groundwater Monitoring Report for the First and Second Quarters 2006 of the Presidio-Wide Groundwater Monitoring Program has been prepared by Treadwell & Rollo, Inc. (Treadwell & Rollo) for The Presidio Trust (Trust). During the First and Second Quarters 2006, 17 sites at the Presidio of San Francisco (Presidio) were included in the groundwater monitoring program, as shown on Figure 1. Although the Presidio is currently under the jurisdiction of the Trust and the National Park Service (NPS), the Trust is managing the Presidio-wide Groundwater Monitoring Program.

This report describes the groundwater elevation monitoring and sampling methods used, summarizes the laboratory analytical procedures and results, and presents the results of the quality assurance and quality control (QA/QC) and data validation activities for samples collected during the First and Second Quarters 2006. This report also summarizes historical sampling data previously collected by others. The groundwater monitoring, laboratory, and data validation methods and procedures used by others during historical sampling events have been discussed in previous quarterly groundwater monitoring reports (Montgomery Watson, 1996c, 1999a-n, 2000; Treadwell & Rollo, 2001b, 2002b, 2002d, 2002f, 2002g, 2002h).

The Trust worked with the United States Environmental Protection Agency (EPA), California Environmental Protection Agency, Department of Toxic Substances Control (DTSC), Regional Water Quality Control Board, San Francisco Bay Region (RWQCB), and Restoration Advisory Board (RAB) representatives to develop the Cleanup Levels Document. The *Development of Presidio-Wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water* (Cleanup Levels Document) summarizes the derivation of human health and ecological cleanup for soil, sediment, groundwater, and surface water, and the development of soil background metal concentrations at the Presidio (Erler & Kalinowski, Inc. [EKI], 2002). The document also presents the proposed methodology for determining Presidio-specific cleanup levels based on the protection of human health and ecological receptors for chemicals that may potentially be encountered in soil, sediment, and water at the Presidio (EKI, 2002). These cleanup levels were developed to be applied to new decision documents for chemical release sites within the Presidio.

Cleanup of petroleum program sites, such as the Commissary/Post Exchange (PX), must adhere to Site Cleanup Requirements (SCRs), per *Order No. R2-2003-0080, Revised Site Cleanup Requirements and Rescission of Order No. 91-082 and Order No. 96-070* (RWQCB, 2003). This Order requires that the Presidio-Wide Quarterly Groundwater Monitoring Program report monitoring activities and findings, and publish chemical concentration plume maps of appropriate contaminants of concern semi-annually. This report is intended to comply with the requirements of the Order.

1.1 Report Organization

This report is organized as described below.

- The Executive Summary presents a brief, concise synopsis of the most significant changes to the monitoring program and any significant findings, observations, and recommendations.
- The Main Body of the report presents the project background, the geologic and hydrogeologic setting, the groundwater monitoring procedures, the laboratory analyses, and the QA/QC procedures and findings. The main body of the report includes a site location figure and tables summarizing monitoring plans, sampling and analytical procedures and methods, and data validation procedures.
- Appendix A presents sections for each of the areas included in the program. Each section describes the site background and site-specific geologic and hydrogeologic setting, presents current and historical sampling results, and provides recommendations for modifications in future monitoring events. Each site section contains site-specific figures, tables summarizing analytical results, and monitoring well purge records.
- Appendix B contains completed equipment calibration forms.
- Appendix C contains groundwater-level measurement logs.
- Appendix D contains the laboratory analytical quality control (QC) reports for the First and Second Quarters 2006 prepared by DataVal, Inc. (DataVal), the project data validation firm. Appendix D is included in electronic form on a compact disk (CD).
- Appendix E contains Curtis & Tompkins, Ltd. (Curtis & Tompkins) laboratory analytical data reports. Curtis & Tompkins was the designated primary laboratory for the First and Second Quarters 2006. Appendix E is included in electronic form on a CD.

- Appendix F contains Columbia Analytical Services (CAS) laboratory analytical data reports. CAS was the QC laboratory designated to analyze the QC duplicate samples for the First and Second Quarters 2006. Appendix F is included in electronic form on a CD.

1.2 Field Sampling Plan

The groundwater monitoring activities documented in this report were performed in accordance with the *Field Sampling Plan, Presidio Groundwater Monitoring Project, Presidio of San Francisco, San Francisco, California* (FSP) (Treadwell & Rollo, 2001a) and the *Presidio-wide Quality Assurance Project Plan Sampling and Analysis Plan* (QAPP) (Tetra Tech, 2001). The FSP initially identified the groundwater elevation monitoring and sampling schedules, well locations, sampling procedures, and proposed analytical test methods. Currently, groundwater elevation monitoring and sampling schedules, well locations, sampling procedures, and proposed analytical test methods are identified on a quarterly basis in Table 1 of this report. Table 1 is submitted to the stakeholders for review and approval prior to sampling during each quarterly monitoring event.

Standard operating procedures (SOPs) were presented for required monitoring tasks and for optional tasks such as well abandonment, which may be performed within the scope of the groundwater monitoring program. The *Base-wide Groundwater Monitoring Plan* (BGMP) (Montgomery Watson, 1996c) and site-specific corrective and remedial action plans (CAPs and RAPs) were also consulted in preparation of this report.

Modifications to the FSP may be required if the scope of work is modified, or if there are substantial revisions to the QAPP. If modifications to the FSP are required, a letter will be prepared which will include a brief discussion of the proposed changes and copies of revised tables and figures. The letter will be submitted to the NPS and appropriate regulatory agencies for review and comment. Minor adjustments may be made to the monitoring program depending on field conditions, and those changes will be documented in field logs and reported in the semi-annual reports.

1.3 Groundwater Monitoring Objectives

The general objectives of the Presidio-wide Groundwater Monitoring Program, as presented in the FSP, are as follows:

- Monitor the lateral and vertical extent of groundwater contamination.
- Track contaminant concentration and migration to help evaluate impacts to potential beneficial uses of groundwater.

- Provide data on contaminant concentration and migration needed for studies to evaluate potential exposure pathways to human and ecological receptors.
- Improve understanding of the Presidio geology and hydrogeology.
- Validate, optimize, and evaluate the effectiveness of groundwater remedial measures.
- Evaluate whether remedial objectives have been met.
- Provide the information necessary to establish and update long-term monitoring strategies.
- Provide groundwater monitoring reports with defensible data in accordance with the QAPP, SOPs, site-specific remedial plans and decision documents, and applicable regulatory agency requirements.

Site-specific monitoring objectives are identified in the site-specific sections presented in Appendix A.

2.0 BACKGROUND

The United States Department of Defense, Department of the Army (Army) operated the Presidio as a military base until 1994, when the Army closed this base and transferred the Presidio's administrative jurisdiction to the NPS. As part of the Army's responsibilities under base closure legislation, the Army initiated certain actions to address environmental conditions at the Presidio, including instituting the BGMP. The Army retained Montgomery Watson to prepare the BGMP and to conduct the groundwater monitoring program.

The Trust was established following passage of the Presidio Trust Act in 1996. The Trust negotiated with the Army to assume the Army's environmental cleanup responsibilities in order to expedite the environmental remediation efforts. The Trust retained Montgomery Watson to continue the Groundwater Monitoring Program through the Third Quarter 2000 and retained Treadwell & Rollo to perform the Presidio-wide Groundwater Monitoring Program beginning with the Second Quarter 2001.

3.0 GEOLOGIC AND HYDROGEOLOGIC SETTING

Tectonic activity in the San Francisco Bay Area, and the Presidio specifically, has resulted in an irregular topography of near-surface and surficial bedrock (referred to as the Franciscan Formation). Throughout the Presidio, the Franciscan Complex consists mostly of serpentinite that is typically overlain by relatively permeable units of poorly consolidated or unconsolidated sediments. These units are defined as (from oldest to youngest): the Merced Formation, the Colma Formation, the West Valley Clay, and dune sand.

The Merced Formation is a discontinuous unit, composed primarily of clay with low hydraulic conductivity. The Colma Formation overlies the Merced Formation, and overlies the Franciscan Formation bedrock in areas where the Merced is absent. The Colma Formation consists of horizontally bedded, fine-grained, slightly silty sand. A local, discontinuous clay deposit of unknown origin, referred to as the West Valley Clay, has been observed in a layer up to 30 feet thick overlying the Colma Formation. Dune sands are the most recent continuous unit deposited across the Presidio. Dune sands generally overlie the Colma Formation, but may also overlie the Franciscan, Merced, or West Valley Clay where erosion of the Colma Formation has occurred. The dune sands are generally well sorted, fine- to medium-grained, and yellow-brown to light gray in color.

Previous investigations have identified three groundwater basins at the Presidio. These basins are the Lobos Creek Groundwater Basin, the Coastal Bluffs Groundwater Basin, and the Marina Groundwater Basin (Figure 1). The Lobos Creek Groundwater Basin includes Lobos Creek, the principle perennial stream at the Presidio. The Marina Groundwater Basin includes the West Valley, Northeastern, and the Crissy Field Groundwater Areas (Montgomery Watson, 1996c). The Coastal Bluffs Groundwater Basin is not subdivided into groundwater areas.

The Lobos Creek Groundwater Basin is underlain by the Franciscan Formation and substantial thicknesses of relatively permeable, unconsolidated units. Several groundwater wells within this basin were used to supply a portion (approximately 10 percent) of the water used for former Presidio operations.

The Marina Groundwater Basin is the largest of the three basins at the Presidio. As mentioned above, this basin includes three groundwater areas, based on their geographic location. The Marina Groundwater Basin is underlain by all of the geologic units identified at the Presidio.

The Coastal Bluffs Groundwater Basin is the smallest of the three groundwater basins and is predominantly underlain by relatively impermeable serpentinite rock (Franciscan Formation) with minor amounts of overlying permeable materials. Groundwater yields in this basin are expected to be extremely low.

The BGMP was prepared in 1996 and has been supplemented by subsequent site-specific investigations. Summaries of geologic and hydrogeologic conditions encountered at each sampling area are presented in Appendix A.

4.0 GROUNDWATER MONITORING

The scope of field work for this report included collecting groundwater elevation measurements and samples from groundwater monitoring wells, piezometers, and seeps or springs at 17 areas at the Presidio (Figure 1). Tables 1A and 1B identify the elevation monitoring, sampling, and analyses schedules for wells, piezometers, seeps, and springs at each area for the First and Second Quarters 2006, respectively. The 17 areas are:

1. Building 900s Area
2. Landfill 8
3. Fill Site 6
4. Battery Howe/Wagner
5. Building 1349 Area
6. Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, and Upgradient Wells
7. Landfill E
8. Landfill 4
9. Fill Site 5
10. Building 231/207 Area
11. Building 1065/1027 Area
12. Mini-CAP Areas
13. Nike Missile Facility
14. Baker Beach Disturbed Area 3
15. Landfill 10
16. Commissary/PX Area
17. Baker Beach Disturbed Areas 1 and 2A

4.1 Groundwater Elevation Monitoring

On 6 March and 22 May 2006, groundwater elevation measurements were collected at monitoring wells, piezometers, and seeps and were evaluated for flow at 203 and 204 locations, respectively. Tables 2A and 2B summarize the groundwater elevation measurements collected during the First and Second Quarters 2006, respectively. Groundwater elevations were measured

using a Slope Indicator model #51453 or a Solinst model #101 water level meter. Copies of all field equipment calibration forms are included in Appendix B. A minimum of three measurements was taken at each well and recorded on the groundwater elevation log, as described in the SOPs. Copies of the groundwater-level measurement logs are included as Appendix C. The water level meters were decontaminated after each use by spraying them with an Alconox detergent solution, then rinsing with potable water, in conformance with the SOPs.

During the First Quarter 2006 groundwater elevation monitoring, one well (HWGW102) was found to be dry. Three groundwater monitoring wells (UBR01GW01, 1065PZ6A, 1065PZ6B) were proposed for elevation monitoring during the First Quarter 2006, but were unable to be located due to obstructions. Additionally, Commissary/PX Area seeps 610SP01 and 610SP02 were underwater during the First Quarter 2006 sampling event. This phenomenon occurs when sand bars naturally accumulate along the entrance to the Crissy Field Marsh. The presence of the sand bars limit the tidal influence within the Crissy Field Marsh and causes the low tide water elevation in the marsh to be higher than the elevation in the San Francisco Bay. The conditions at these locations are identified in Table 2A.

During the Second Quarter 2006 groundwater elevation monitoring, four wells or piezometers (HWGW102, BB2ASW100, BB3PZ101, and BB3PZ102) were found either to be dry or to contain an insufficient amount of water to measure (i.e., water was trapped in the well end-cap and therefore was not representative of the aquifer). Five groundwater seeps (LF5SP100, DAESP03, 610SP01, 610SP02 and BB2ASW100) were not flowing at the time of the groundwater elevation survey. Five groundwater monitoring wells, seeps, or piezometers (UBR01GW01, NKGW04, 1065PZ6A, LF10GW02, and LF10SP01) were proposed for elevation monitoring during the First Quarter 2006, but could not be located. The conditions at these locations are identified in Table 2B.

4.1.1 Groundwater Elevation Monitoring at Tidally Influenced Wells

During the First Quarter 2006, low and high tides were predicted to be at 11:12 AM and 6:48 PM on 6 March 2006, respectively. Observed low tide on 6 March 2006 was at 11:08 AM with a magnitude of 0.8 feet above Presidio Lower Low Water (PLLW). Observed high tide on 6 March 2006 was at 7:06 PM with a magnitude of 6.41 feet above PLLW. The First Quarter 2006 predicted and observed tidal times and magnitudes are presented in the notes on Table 2A.

During the Second Quarter 2006, low and high tides were predicted to be at 8:12 PM and 11:42 AM on 22 May 2006, respectively. Observed low tide on 22 May 2006 was at 8:06 PM with a magnitude of 0.79 feet above PLLW. Observed high tide on 22 May 2006 was at 11:36 AM with a magnitude of 5.6 feet above PLLW. The Second Quarter 2006 predicted and observed tidal times and magnitudes are presented in the notes on Table 2B.

During the First Quarter 2006, depth to groundwater measurements were collected between 12:34 and 2:00 PM on 6 March 2006 at the Building 900s and Commissary/PX Areas, which the Trust has determined are tidally influenced. Figure 2A shows graphical tide plots for the Golden Gate Tidal Station on 6 March 2006.

During the Second Quarter 2006, depth to groundwater measurements were collected between 2:25 and 3:25 PM on 22 May 2006 at the Building 900s and Commissary/PX Areas, which the Trust has determined are tidally influenced. Figure 2B shows graphical tide plots for the Golden Gate Tidal Station on 22 May 2006.

Varying degrees of tidal lag may exist at site wells, causing groundwater elevations within monitoring wells to vary and to not necessarily be synchronized to the tidal schedule. The "tidal lag" is the length of time between a tidal extreme and the maximum influence measured in a well. The distance inland from the nearest tidally influenced surface water body is used to determine the tidal lag. In a homogeneous aquifer, the tidal lag time should be directly proportional to the distance from the surface water body. Variations in the tidal lag may be due to aquifer heterogeneity or the presence of man-made structures. At Crissy Field, the shallow aquifer may be hydraulically connected to the tidal marsh, whereas the intermediate and deeper aquifer may be hydraulically connected to the San Francisco Bay, though these relationships have not been specifically characterized.

4.2 Groundwater Sampling

The equipment and methods described in the FSP are summarized below. Groundwater samples were collected in laboratory-supplied sample containers, sealed, labeled, and placed into ice chests containing a sufficient volume of ice to maintain a temperature of 4.0 degrees Celsius (^{O}C) for transport to the offsite analytical laboratories, in accordance with the methods described in the FSP. All samples were documented with chain-of-custody protocols, as described in the chain-of-custody SOP. The site-specific sections in Appendix A present details of well, piezometer, and seep sampling.

During the First Quarter 2006, three groundwater sampling crews purged and/or sampled 171 wells, piezometers, and groundwater seeps between 7 March and 24 March 2006. Two of the monitoring wells (HWGW102, and BB3GW101) proposed for sampling were either dry or did not contain a sufficient amount of water for sampling during the First Quarter 2006. Three monitoring wells, seeps, or piezometers (1065PZ6A, LF10GW2, and LF10SP01) were inaccessible, and were not sampled.

During the Second Quarter 2006, three groundwater sampling crews purged and/or sampled 44 wells, piezometers, and groundwater seeps between 23 May and 25 May 2006. The following monitoring wells, piezometers, and/or groundwater seeps (DAESP03, BB2ASW100,

BB3GW100, BB3PZ101, BB3PZ102, BB3GW100, and HWGW102) were either dry or did not contain a sufficient amount of water for sampling during the Second Quarter 2006. Two monitoring wells or seeps (LF10GW02 and LF10SP01) were not sampled because they were in accessible. Additionally, two seeps (610SP01 and 610SP02) were submerged by the Crissy Field Marsh.

4.2.1 Groundwater Purging Methods and Selection Criteria

The following sections describe the groundwater purging methods and selection criteria that were used during this quarter.

4.2.1.1 Groundwater Purging Methods

Two primary groundwater well purging methods, normal and low flow, were used during the First and Second Quarters 2006 and are described below. Tables 1A and 1B identify the sampling methods that were proposed for each well. If field conditions required any changes from the proposed methods, those changes are described in the site-specific summaries in Appendix A.

Normal – This method involves purging until three borehole volumes of groundwater have been extracted or until groundwater parameters have stabilized, which ever is greater. Table 3 identifies well construction details required to calculate the borehole volumes for each well. Table 4 shows the precalculated volume of water in a 1-foot section of various borehole and casing sizes. For low-yield wells that require slower pumping rates than would be used with the normal method, Tables 1A and 1B identify a modified normal method, which is the same as the normal method except that a maximum purging rate of 0.5 gallons per minute (gpm) is designated. If the well is able to sustain a 0.5 gpm purge rate, well purging is considered complete after groundwater parameters have stabilized. If a well is purged dry using the normal or modified purging methods, the groundwater level is allowed to recharge to within 80 percent of its pre-purging elevation prior to sampling. Additional details on this method are presented in the FSP.

Low Flow – This method involves purging at a rate as low as 0.02 gpm in order to minimize groundwater sample disturbance. Additional details on this method are presented in the FSP.

4.2.1.2 Groundwater Purging Method Selection Criteria

The Trust has determined which purging method to use at each well using the following selection criteria:

1. Whenever possible, wells should be purged using the normal method.

2. To help maintain data comparability, the purging method for a well should remain consistent from quarter to quarter except as noted below.

3. If a well is pumped dry or shows a significant drop in the groundwater elevation using the normal method and requires a slower pumping rate, the modified normal purge method will be used. This change to a slower pumping rate can be made during purging, depending upon groundwater recharge conditions.

4. If a well is pumped dry using the modified normal method and requires a slower pumping rate, the low-flow purge method will be used. This method requires specialized equipment and has the potential to affect data comparability, so changes to this method would only occur with Trust approval prior to future quarterly sampling.

5. When not conflicting with criteria 1 through 4, all wells at a single site screened in the same zone shall be purged using the same method.

4.2.2 Groundwater Sampling Methods

The sampling methods used following purging are described below.

4.2.2.1 Groundwater Sampling Methods After Normal Purging

Following normal purging, groundwater samples were collected using a new disposable bailer, a 2-inch-diameter Grundfos Redi-Flow™ or a peristaltic pump, and decanted into the appropriate laboratory-supplied containers. Monitoring wells that are sampled using either a 2-inch Redi-Flow™ or peristaltic pump may have dedicated tubing associated with them. Dedicated tubing is stored at the Central Magazine in new plastic bags after each use.

4.2.2.2 Groundwater Sampling After Low-Flow Purging

Following low-flow purging, groundwater samples were collected using either a peristaltic pump or a 2-inch Redi-Flow™ pump. Monitoring wells that are sampled using either a 2-inch Redi-Flow™ or peristaltic pump may have dedicated tubing associated with them. Dedicated tubing is stored at the Central Magazine in new plastic bags after each use.

4.2.2.3 Sampling at Seeps

Seven seep and fixed monitoring locations were identified for sampling as part of this program during the First and Second Quarters 2006 (Tables 1A and 1B). Because spring and seep locations can change over time, the sample locations were initially identified by the Trust.

Three Baker Beach Disturbed Area 3 (BBDA 3) fixed surface water seep monitoring points, BB3SW100, BB3SW101, and BB3SW102, were installed on 8 and 23 May 2005 at depths of 2.5, 3.0, and 2.5 feet bgs, respectively. The fixed monitoring points are purged prior to sampling, in accordance with the 'modified' method of sampling described in Section 4.2.2.1 above.

Seven seep and/or fixed monitoring point samples (EPSP01, LF5SP100, 610SP01, 610SP02 and BB3SW100 through BB3SW102) were collected during the First Quarter 2006, in accordance with procedures presented in the FSP. Seep LF10SP01 was inaccessible due to overgrown vegetation, and therefore no samples were collected at this location during the First Quarter 2006.

Four seep and/or fixed monitoring point samples (EPSP01, BB3SW101, BB3SW102 and BB3SW104) were collected during the Second Quarter 2006, in accordance with procedures presented in the FSP. Five seeps (610SP01, 610SP02, DAESP03, BB2ASW100, and BB3SW100) were not flowing during the Second Quarter 2006 and were not sampled. Additionally, seep LF10SP01 was inaccessible due to overgrown vegetation and therefore no samples were collected at this location during the Second Quarter 2006.

During the First and Second Quarters 2006, all seep samples were analyzed for dissolved metals and total metals, as requested by the DTSC.

4.3 Sample Preservation, Handling, and Transportation

Samples were collected in laboratory-supplied sample containers, sealed, labeled, and placed into an ice chest containing a sufficient volume of ice to maintain a temperature of 4.0 ^{O}C (plus or minus 2.0 ^{O}C) for transport to the offsite analytical laboratories, in conformance with procedures presented in the FSP. Temperature blanks were included in coolers for measurement by the laboratory upon receipt.

4.3.1 Sample Labels and Chain-of-Custody Documentation

Sample labels for each container were preprinted on adhesive paper prior to beginning sampling operations. Prior to sampling, each field team was designated a number (e.g., 1 through 4 in the case of four sampling teams) for the duration of the sampling event. The samples were identified according to the numbering scheme described in the FSP, with the following modifications.

- The FSP specified that trip blanks be identified as TB and the date. When multiple trip blanks were generated by different sampling crews on the same date, the number assigned to the field crew collecting the sample (1, 2, 3, or 4) and a letter (i.e., A, B, C, etc.), indicating which sample of the day it was for that team, were added to the sample identification to ensure that all trip blanks had unique identifications. For example, trip blank TB0524063A was the first trip blank collected on 24 May 2006 by field crew number 3.

- The FSP specified that duplicate samples be identified as duplicate (DUP) and the date. When multiple duplicate samples were generated by different sampling crews on the same date, the same labeling methodology described above for trip blanks was applied to the duplicates. The number assigned to the field crew collecting the sample and a letter (i.e., A, B, C, etc.), indicating which sample of the day it was for that team, were added to the sample identification to ensure that all duplicates had unique identifications. For example, duplicate sample DUP0523063A was the first duplicate sample collected on 23 May 2006 by field crew number 3.

After labeling, each sample's requested laboratory analyses were recorded on individually numbered triplicate chain-of-custody forms. The sample coolers and chain-of-custody forms were kept in the possession of the samplers or in a secure, locked location prior to pickup by the laboratory courier.

Several samples were incorrectly labeled by the field team during the First and Second Quarters 2006. All sample login summaries are reviewed as samples are received by the laboratories and changes to sample identifications are typically documented in laboratory reports (Appendices E and F). All samples incorrectly labeled were revised during sample login procedures and none of the changes appear to have impacted any of the sample results. Samples incorrectly labeled and subsequently revised are detailed below.

First Quarter 2006

- Samples 600GW102 through 600GW104 were incorrectly identified as G00GW102 through G00GW104. The sample identification was corrected and a new sample login was sent.
- The initial COC did not include analysis of SVOCs for sample DAEGW07. This analysis was subsequently added.
- Sample 1065MW11B was incorrectly identified as 1065PZ11B. The sample identification was corrected and a new sample login was sent.

- No analyses were indicated on the COC for sample TB0320063A. The login was corrected to indicate analysis of VOCs only.

Second Quarter 2006

- A trip blank (TB0523063A) was submitted for SDG 187020, however there were no VOC analyses associated with any of the samples in the SDG and the analysis for the trip blank was canceled.

The field team was instructed on sample identification QA/QC procedures prior to the next Second Quarter 2006 sampling event and will be reminded prior to the next sampling event. Laboratory login summaries will continue to be reviewed by Treadwell & Rollo as samples are collected and submitted to the laboratory and any discrepancies will be corrected.

4.3.2 Filtration of Groundwater Samples for Metals Analyses

Beginning in the Second Quarter 2001 and through the Third Quarter 2002, all groundwater samples collected for dissolved metals analyses were filtered in the field with a 0.45-micron, Clearwater Engineering™ filter prior to being placed in preserved containers. For reasons discussed below in Section 5.4.3.4, a different brand of filter was selected beginning in the Fourth Quarter 2002.

Beginning in the Fourth Quarter 2002, all groundwater samples collected for dissolved metals analyses were filtered in the field with a 0.45-micron, high-capacity polyethersulfone QED Quickfilter™ prior to being placed in preserved containers. The filters were flushed with at least 200 milliliters of sample water prior to collecting the sample, which adheres to the manufacturer's instructions. For wells being analyzed for total dissolved solids (TDS), analyses were also performed using the filtered sample.

At DTSC's request and beginning in the Second Quarter 2003, both dissolved (filtered) and total (unfiltered) metals samples were collected at seep and fixed monitoring point locations. Total metals results are not representative of dissolved metal conditions in groundwater.

All dissolved metals samples collected during the First and Second Quarters 2006 were filtered using QED Quickfilters™.

5.0 LABORATORY ANALYSES

5.1 Analytical Methods

Table 5 lists the types of analyses, analytical methods, sample container types and volumes, preservatives used (if applicable), and the maximum allowable holding times prior to extraction for each analysis. The following carbon ranges were used for total petroleum hydrocarbon (TPH) analyses and are summarized in Table 5.

- TPH as gasoline (TPHg, carbon range C7–C12). This carbon range was specified by the QAPP.
- TPH as stoddard solvent (TPHss, carbon range C7-C12). TPHss analyses were added to the Presidio-wide Groundwater Monitoring Program beginning with the First Quarter 2004 at the request of the Trust. The carbon range for TPHss is not specified in the QAPP. TPHss is a specialized formulation of TPHg and is found in the same carbon range as TPHg. Laboratory quantification for TPHss is achieved by comparing the shape of the analytical chromatogram within the same carbon range as TPHg for a diagnostic combination of spikes.
- TPH as diesel (TPHd, carbon range C12–C24). This carbon range was specified by the QAPP.
- TPH as fuel oil (TPHfo, carbon range C24–C36). No carbon range for TPHfo was specified by the QAPP. At the request of the Trust, TPHfo is qualified by the laboratory using the TPH as motor oil (TPHmo) standard and the QAPP carbon range for TPHmo. This issue is discussed in more detail in Section 5.4.3.1.

Table 6 lists compounds of potential concern (COPC) identified in the QAPP and analytical reporting limits for COPCs in the groundwater monitoring program. Several water quality criteria are summarized in Table 6 for comparison with the laboratory reporting limits. The water quality criteria presented in Table 6 do not necessarily represent cleanup criteria for Presidio sites.

The analytical methods for some metals and polycyclic aromatic hydrocarbons (PAHs) were changed from those identified in the FSP in order to reach the lower reporting limits identified in the QAPP. The following changes, approved by the Trust, were made.

- Twelve metals (antimony, arsenic, barium, beryllium, cadmium, copper, chromium, cobalt, nickel, silver, thallium, and zinc) were analyzed using Environmental Protection Agency (EPA) Method 6020 instead of EPA Method 6010 as proposed in the FSP between the Second Quarter 2001 and the First Quarter 2003. Beginning in the Second Quarter 2003, seven of these metals (arsenic, barium, beryllium,

chromium, cobalt, nickel and zinc) were granted variance by the stakeholders from the QAPP reporting limits and were analyzed using EPA Method 6010.

- PAHs were analyzed using EPA Method 8310 instead of EPA Method 8270 as proposed in the FSP.

Four emergent chemicals (perchlorate, N-nitrosodimethylamine [NDMA], 1,4-dioxane and polybrominated diphenyl ether [PBDE]) were added to the First Quarter 2004 groundwater monitoring event at the request of the RWQCB. As listed on Table 5, analytical methods for the emergent chemicals are:

- Perchlorate, EPA Method 314.0;
- NDMA, EPA Method 1625;
- 1,4-dioxane, using EPA Method 8270C; and
- PBDE, EPA Method 1614.

NDMA was the only emergent chemical analyzed during the First Quarter 2006. No samples were analyzed for the four emergent chemicals during the Second Quarter 2006.

Three new analyses (total organic carbon [TOC], dissolved gases [methane, ethane, and ethane], and arsenic III and V speciation) were added to the Presidio Groundwater Monitoring Program during the Fourth Quarter 2004. Analytical methods used for these new analyses are listed in Table 5 and below:

- TOC, EPA 415.2;
- Dissolved gases, RSK 175; and
- Arsenic III and V speciation, Draft EPA 1632 Modified.

Arsenic III and V speciation and dissolved gases analyses were not conducted during the First and Second Quarters 2006 and will not be included as a part of the Presidio Groundwater Monitoring Program in future quarters as it is no longer required to evaluate groundwater redox conditions at the Site.

5.2 Analytical Data Delivery Methods

The analytical laboratories submitted all analytical reports in paper and electronic formats to Treadwell & Rollo. Both the electronic and paper copies were forwarded to DataVal. DataVal reviewed both the electronic and paper data, and prepared two Data Validation Summary Reports

(QCSR) dated 20 June 2006 (DataVal, 2006a) and 18 August 2006 (DataVal, 2006b). The reports entitled, *Data Validation Summary Report for the First Quarter 2006, Groundwater Monitoring, Presidio of San Francisco, CA* and *Data Validation Summary Report for the Second Quarter 2006, Groundwater Monitoring, Presidio of San Francisco, CA*, respectively, are discussed in Section 6.1 and attached as Appendix D.

5.3 Analytical Results

The tables in this report that present new analytical data were generated from laboratory-supplied EDDs, after the EDDs had been validated by DataVal and imported into the project database. Analytical summary tables were prepared for each site and are presented in Appendix A.

5.4 Analytical Data Comparability

One of the goals of this Groundwater Monitoring Program has been to establish standards for groundwater sampling and analytical methods that provide a high degree of data comparability among different wells throughout the Presidio, and between the current and historical data collected at the same well. The primary variables that can influence data comparability are the field methods, sampling methodology, the types of analyses performed, and the analytical methods used by the laboratory. These issues are discussed below.

5.4.1 Field Methods

To assist with data comparability, the FSP established Presidio-wide standard well purging and sampling methods, and criteria for selecting purging methods, as described in Section 4.2. The selection criteria include evaluating the historical purging and sampling methods at a particular well and at other wells within a single site.

To assist with comparability of data collected from direct-reading field instruments, this program has attempted to employ similar methods and instrumentation at wells purged using the same method.

5.4.1.1 Dissolved Oxygen

Dissolved oxygen (DO) results are discussed in the individual site-specific sections in Appendix A. In general, wells purged with the low-flow method used an in-line oxygen probe. Wells purged with the normal method have used a downhole oxygen probe since the Third Quarter 2001. During the Second Quarter 2001, DO was recorded with either a downhole probe or a surface instrument in wells purged with the normal method. The surface instrument generally recorded higher DO concentrations than the downhole instrument because of water turbulence caused by collecting the sample with a bailer.

Beginning in the Second Quarter 2002, in an effort to increase the accuracy and precision of the DO measurements being collected in the field, three additional protocols were added to the existing calibration procedure (i.e. calibrating to 100% air saturation) and measurement method, where appropriate. The first additional protocol involves saturating laboratory-supplied deionized water with sodium sulfite to create a zero milligram per liter (mg/L) DO solution. Following initial calibration to 100% air saturation, each DO probe is placed in the sodium sulfite solution and the measured value is recorded on a calibration record (Appendix B). The recorded values are used to evaluate the accuracy of each DO meter. If the concentration measured by the DO meter is greater than 0.2 mg/L, then the meter is re-calibrated and the concentration is measured again. This process is repeated, as necessary, until the concentration measured by the DO meter is less than 0.2 mg/L.

After the sodium sulfite calibration is complete, each field team measures the DO concentrations simultaneously within a single, randomly selected monitoring well with their respective DO meters. This second protocol is performed once per week throughout each event and the measured values are recorded on a calibration record (Appendix B). The recorded values are used to evaluate the precision between DO meters. If a significant difference between DO meters is observed, a correction factor can be used to ensure that relative values between sampling teams are comparable.

The third protocol involves lowering the down-hole DO meter probe slowly to the middle of the screened interval in each well before recording the DO measurement. This protocol ensures that the relatively disturbed and aerated water near the top of the water column is not measured. This protocol does not apply to wells sampled using the low flow sampling method, because those wells are measured using a flow-through-cell at the surface.

These three additional protocols have produced significantly more stable, and generally lower, DO measurements when compared to historical values.

5.4.2 Analytical Suite

To assist with data comparability, the analytical suite for each well was selected for consistency with previous analyses conducted by others. Additionally, analytes were added to provide greater consistency with the analytical suite for all wells at a site and with wells at adjacent sites.

5.4.3 Analytical Methods

To assist with data comparability, the laboratory analytical methods used, beginning in the Second Quarter 2001, generally remained the same between subsequent quarters, and these methods were similar to most of the methods previously used by others. A significant change from previous TPH analyses was the introduction of carbon ranges specified in the QAPP that

differ from previous ranges. Additional significant changes from previous analytical methods involved PAH compounds and 12 metals, as described in Section 5.1.

5.4.3.1 TPH Analyses

The TPH analytical methods used during the First and Second Quarters 2006 are the same as those used in recent quarterly sampling events. However, historical TPHfo analyses used a carbon range of C_{24}-C_{36}, which the QAPP states should be called TPHmo. During the Second and Third Quarters 2001, TPH within the C_{12}-C_{50} and C_{24}-C_{36} carbon ranges were reported as TPHfo and TPHmo, respectively. Beginning in the Fourth Quarter 2001, TPH within the C_{24}-C_{36} carbon range is reported as TPHfo in order to conform with the reporting convention used prior to the Second Quarter 2001.

It is a standard procedure in this monitoring program to use silica gel cleanup EPA Method 3630A to remove non petroleum-based hydrocarbons in all TPHd, TPHmo, and TPHfo analyses. For Third Quarter 2001, EPA Method 3630A was requested for all TPHd, TPHmo, and TPHfo analyses on the chain-of-custody forms, but the primary laboratory mistakenly did not perform the silica gel cleanup for most of these analyses. For Second Quarter 2002, the QC laboratory mistakenly did not perform the silica gel cleanup for the sample from monitoring well 937GW42. Performing TPH analyses without using a silica gel cleanup to remove non petroleum-based hydrocarbons can lead to elevated TPH concentrations, due to the quantification of naturally occurring hydrocarbons as TPH. This is especially true for sites underlain by material with very high organic content, such as the shallow Bay Mud present in portions of Crissy Field. Previous groundwater monitoring reports have described this issue and presented justification for why the TPH detections in samples run without the silica gel cleanup are not representative of petroleum-based hydrocarbons, and why this data is not being relied upon (Treadwell & Rollo, 2002b, 2002d, 2002f, 2002g, 2002h).

All of the samples with detections of TPHd, TPHfo, and TPHmo, which were not run with the silica gel cleanup, were qualified with an 'NJ' by DataVal. The USEPA National Functional Guidelines for Organic Data Review defines 'NJ' as follows: "The analysis indicates the presence of an analyte that has been 'tentatively identified' and the associated numerical value represents its approximate concentration."

Per Trust request, monitoring well 1047MW100 was sampled for TPH as Stoddard solvent (TPHss) beginning in Fourth Quarter 2003.

5.4.3.2 Xylene Analyses

Beginning in the Fourth Quarter 2001, xylenes were reported as total xylenes in order to conform to the reporting convention used prior to the Second Quarter 2001. During the Second and Third Quarters 2001, xylenes were reported as m,p-xylenes and o-xylenes, because the QAPP identified

reporting limits for these compounds only and not for total xylenes. The sum of the concentrations of m,p-xylenes and o-xylenes is equivalent to total xylenes. The reporting limit for total xylenes is 0.5 micrograms per liter (μg/L), the same as currently being used for the two xylene compounds.

5.4.3.3 PAH Analyses

The new method used for PAH compounds beginning in the Second Quarter 2001 (EPA Method 8310) has lower detection limits than the previous method (EPA Method 8270). EPA Method 8310 analytical data generally confirms historical findings that detectable concentrations of PAHs are not present at most sites.

5.4.3.4 Metals Analyses

The new method used to analyze 12 metals beginning in the Second Quarter 2001 (EPA Method 6020) has lower detection limits than the previous analytical method (EPA Method 6010). A description of the differences between these methods was included in previous reports (Treadwell & Rollo, 2002d, 2002f).

Results using EPA Method 6020 showed detectable concentrations of some metals for the first time in some wells, such as antimony and arsenic, beginning in the Second Quarter 2001. For metals such as antimony and arsenic, the detected concentrations were generally lower than the historical reporting limits. Analytical results measured between the Second Quarter 2001 and the Third Quarter 2002 indicated that some zinc concentrations and the majority of barium concentrations were higher than historically reported.

The reason for the increases in barium and zinc concentrations between the Second Quarter 2001 and the Third Quarter 2002 was determined to be a result of the brand of filter used, as discussed in the *Semi-Annual Groundwater Monitoring Report, First and Second Quarters 2004* (Treadwell & Rollo, 2004d).

6.0 QUALITY ASSURANCE, QUALITY CONTROL, AND DATA VALIDATION

The QA/QC program for this project is designed to verify that the information presented in this report is based upon accurate and reliable laboratory analytical data. The program includes the collection and analyses of many types of QA/QC samples, including duplicates (Table 7), equipment rinsate blanks (Table 8), trip blanks (Table 9) source water blanks (Table 10), and running matrix spike/matrix spike duplicate (MS/MSDs) to ensure that the analytical laboratories perform and document all required calibrations and internal QA/QC procedures.

Overall, the project data quality objectives have been met for the First and Second Quarters 2006. Where data have required qualification, a discussion is provided in each quarterly data validation report and in each site-specific section. The following sections describe the data validation procedures and the results of the QA/QC sample evaluation for both the First and Second Quarters 2006.

6.1 Data Validation

DataVal reviewed both the electronic and paper data, and prepared Data Validation Summary Reports (DVSR) dated 20 June 2006 (DataVal, 2006a) and 18 August 2006 (DataVal, 2006b). The reports entitled, *Data Validation Summary Report for the First Quarter 2006, Groundwater Monitoring, Presidio of San Francisco, CA* and *Data Validation Summary Report for the Second Quarter 2006, Groundwater Monitoring, Presidio of San Francisco, CA*, respectively, which are attached as Appendix D. The reports evaluate the relative percent difference (RPD) for the duplicate samples from Curtis & Tompkins and QC duplicates from CAS, and the following QC data (where applicable) for each analytical method.

- Reporting limits
- Holding times
- Target blanks
- Gas chromatograph/mass spectrometer equipment tunes
- Initial equipment calibration
- Continuing equipment calibration
- Matrix spike/matrix spike duplicate
- Laboratory control samples
- Surrogate recoveries
- Internal standards

The following data validation qualifiers used by DataVal and shown in our tables are those recommended in USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (EPA, 1999).

U The analyte was analyzed for, but was not detected above, the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

Jb The analyte was identified below the laboratory reporting limit but above the laboratory method detection limit and QAPP-specified reporting limit.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet QC criteria. The presence or absence of the analyte cannot be verified.

Table 11 summarizes the data qualifiers used during these events and previous Treadwell & Rollo sampling events.

6.2 Quality Assurance and Quality Control Sampling

Field QC samples include duplicates, QC duplicates, equipment rinsate blanks, field blanks, and trip blanks. The following sections summarize the QA/QC samples that were collected during the First and Second Quarters 2006.

6.2.1 Duplicate Samples

Duplicate groundwater samples were collected on a minimum schedule of 1 duplicate per 10 samples (10 percent) for the primary laboratory (Curtis & Tompkins), and 1 duplicate per 20 samples (5 percent) for the duplicate QC laboratories (CAS). Duplicate groundwater samples were collected using the same methods as the primary samples, as described in the FSP. The duplicate samples were analyzed for the same suite of analytes as the primary samples.

First Quarter 2006

For the First Quarter 2006, 171 primary samples were collected for analyses. 19 duplicate samples (11 percent) were analyzed by the primary laboratory and 12 QC duplicate samples (7 percent) were analyzed by the QC duplicate laboratory (CAS). The relative percentages of duplicate and QC duplicate samples collected are typically higher than the QAPP requirements in order to attain sufficient duplicates for each analysis. Table 7 summarizes the sample identifications and analyses for the duplicate samples. The analytical results for the duplicates are presented in the site-specific analytical tables in Appendix A.

Second Quarter 2006

For the Second Quarter 2006, 44 primary samples were collected for analyses. Six duplicate samples (14 percent) were analyzed by the primary laboratory and four QC duplicate samples (9 percent) were analyzed by the QC duplicate laboratory (CAS). The relative percentages of duplicate and QC duplicate samples collected are typically higher than the QAPP requirements in order to attain sufficient duplicates for each analysis. Table 7 summarizes the sample identifications and analyses for the duplicate samples. The analytical results for the duplicates are presented in the site-specific analytical tables in Appendix A.

6.2.1.1 Duplicate Sample Analytical Results

The field and primary laboratory duplicate precision was evaluated by collecting duplicate samples, as described in the FSP, submitting the samples blind to Curtis & Tompkins for analyses, and then calculating the RPD between the detected results in the sample and its duplicate. This evaluation assumes that the water sample collected from a well is homogenous.

The control limit of 50 percent or less was used for the RPDs to determine whether project data quality objectives were being met. RPDs are calculated for two samples by subtracting the concentration of Sample One from the concentration of Sample Two and then dividing this result by the average of the two concentrations.

First Quarter 2006

The overall correlation of analytical results met project data quality objectives. All analytes in each duplicate pair met the RPD control limit requirements, except for the following:

- In field duplicates 1349MW102 and DUP0307063C, the absolute difference between the results was greater than the 100 µg/L reporting limit for dissolved aluminum. The original result was non-detect at 100 µg/L and the duplicate result was 260 µg/L. In addition, the relative percent difference (RPD) between the detected results failed the 50% acceptance criteria for dissolved iron at 94%.

- In field duplicates 600GW108 and DUP0307061B the RPD between the detected results failed the 50% acceptance criteria for dissolved copper at 70%.
- In field duplicates 231GW21 and DUP0308061A, the absolute difference between the results was greater than the 300 µg/L reporting limit for TPHfo. The original result was non-detect at 300 µg/L and the duplicate result was 5,400 µg/L. The RPD between the detected results failed the 50% acceptance criteria for TPHfo at 119%.
- In field duplicates LF08GW04 and DUP0316064A, the absolute difference between the results was greater than the 0.01 mg/L reporting limit for cyanide. The original result was non-detect at 0.01 mg/L and the duplicate result was 0.03 mg/L. The RPD between the detected results failed the 50% acceptance criteria for cyanide at 67%.
- In field duplicates 1213GW101 and DUP0317062A the RPD between the detected results failed the 50% acceptance criteria for benzene at 61%.

The *Data Validation Summary Report for the Presidio Trust Groundwater Monitoring* (DVSR) First Quarter 2006 (Appendix D) discusses the duplicate sample RPD results, the analytical results and RPD calculations (Table 3). Data was not qualified by DataVal due to RPD failure of duplicate samples because the effect on the quality of the data is not known (DataVal, 2006a).

Second Quarter 2006

The detected results of the original sample and the associated duplicate sample were compared and the calculated RPDs reported. All analytes in each duplicate pair met the RPD control limit requirements, except for the following:

- In field duplicates 610GW103 and DUP0523061A, the relative percent difference (RPD) between the detected results failed the 50% acceptance criteria for alkalinity at 57%.
- In field duplicates 1213GW101 and DUP-05242006, the RPD between the detected results failed the 50% acceptance criteria for benzene (120%), TPH-gasoline (69%) and dissolved chromium (81%); and the absolute differences between the results were greater than the reporting limits for ethylbenzene and dissolved manganese. The original result for ethylbenzene was non-detect at 0.5 µg/L and the duplicate result was 2.7 µg/L. The original result for dissolved manganese was non-detect at 10 µg/L and the duplicate result was 29 µg/L.
- In field duplicates 1349MW100 and DUP0524063A, the absolute difference between the results was greater than the 0.2 µg/L reporting limit for alpha-chlordane. The original result was non-detect at 0.2 µg/L and the duplicate result was 0.8 µg/L

The DVSR Second Quarter 2006 (Appendix D) discusses the duplicate sample RPD results, the analytical results and RPD calculations (Table 3). Data was not qualified by DataVal due to

RPD failure of duplicate samples because the effect on the quality of the data is not known (DataVal, 2006b).

6.2.1.2 Quality Control Duplicate Sample Analytical Results

The laboratory-to-laboratory duplicate precision was evaluated by collecting QC duplicate samples and submitting the primary duplicate sample to Curtis & Tompkins and a QC duplicate sample to CAS. All the QC duplicate samples submitted the QC laboratory had the same sample identification as the primary sample, with a "CL" added to the end. The relative precision was evaluated by calculating the RPD between the detected results in the duplicate sample and its QC duplicate. This evaluation assumes that the water sample collected from a well is homogenous.

The control limit of 50 percent or less was used for the RPDs to determine whether project data quality objectives were being met.

First Quarter 2006

The overall correlation of analytical results between the two laboratories met project data quality objectives. All analytes in each duplicate pair met the RPD control limit requirements, except for:

- In QC split duplicates 1065PZ5AR and 1065PZ5ARCL, the RPD between the reported results failed the 50% RPD acceptance criteria for dissolved iron at 56%.
- In QC split duplicates LF4GW103 and LF4GW103CL, the absolute difference between the results was greater than the 100 µg/L reporting limit for dissolved iron. The original result was 510 µg/L and the duplicate result was non-detect at 100 µg/L.
- In QC split duplicates 1349MW102 and 1349MW102CL, the absolute difference between the results was greater than the 1 µg/L reporting limit for dissolved copper. The original result was non-detect at 1 µg/L and the duplicate result was 2.7 µg/L.
- In QC split duplicates 231GW21 and 231GW21CL, the RPD between the reported results failed the 50% RPD acceptance criteria for TPH-diesel at 114%. The absolute difference between the results was greater than the 1 µg/L reporting limit for chloroform. The original result was non-detect at 1 µg/L and the duplicate result was 2.7 µg/L.
- In QC split duplicates 1260GW102 and 1260GW102CL, the absolute difference between the results was greater than the 50 µg/L reporting limit for TPH-diesel. The original result was non-detect at 50 µg/L and the duplicate result was 120 µg/L.
- In QC split duplicates 950GW108 and 950GW108CL, the absolute difference between the results was greater than the 50 µg/L reporting limit for TPH-diesel. The original result was non-detect at 50 µg/L and the duplicate result was 120 µg/L.

The DVSR First Quarter 2006 (Appendix D) discusses the QC split sample RPD results, the analytical results and RPD calculations (Table 4). Data was not qualified by DataVal due to RPD failure of QC split samples because the effect on the quality of the data is not known (DataVal, 2006a).

Second Quarter 2006

The overall correlation of analytical results between the two laboratories met project data quality objectives. All analytes in each duplicate pair met the RPD control limit requirements, except for the following:

- In QC split duplicates 1213GW101 and 1213GW101CL, the absolute difference between the results was greater than the 1 µg/L reporting limit for dissolved copper. The original result was non-detect at 1 µg/Land the duplicate result was 3 µg/L.
- In QC split duplicates 1349MW100 and 1349MW100CL, the relative percent difference (RPD) between the reported results failed the 50% RPD acceptance criteria for TPH-gasoline (65%), fluorene (61%), fluoranthene (123%) and benzo(a)anthracene (-125%); and the absolute differences between the results were greater than the reporting limits for heptachlor epoxide, 4,4'-DDT and dissolved copper. The original result for heptachlor epoxide was 0.4 µg/L and the duplicate result was non-detect at 0.05 µg/L. The original result for 4,4'-DDT was 0.8 µg/L and the duplicate result was non-detect at 0.1 µg/L. The original result for dissolved copper was non-detect at 1 µg/L and the duplicate result was 4.3 µg/L. The DVSR Second Quarter 2006 (Appendix D) discusses the QC split sample RPD results, the analytical results and RPD calculations (Table 4). Data was not qualified by DataVal due to RPD failure of QC split samples because the effect on the quality of the data is not known (DataVal, 2006b)
- In QC split duplicates 1065MW9A and 1065MW9A CL, the absolute difference between the results was greater than the 0.04 mg/L reporting limit for sulfide. The original result was non-detect at 0.04 mg/L and the duplicate result was 0.17 mg/L.
- In QC split duplicates BHWGW01 and BHWGW01CL, the absolute difference between the results was greater than the 1 µg/L reporting limit for dissolved copper. The original result was non-detect at 1 µg/L and the duplicate result was 2.3 µg/L.

6.2.2 Equipment Rinsate Blanks

Up to one equipment rinsate blank (ERB) was collected per non-dedicated sampling device per day. Per the FSP, the ERBs were collected by pouring clean laboratory-supplied deionized water over the decontaminated sampling device and directly into the sampling container. Table 8 summarizes the analytical results for the ERB samples.

First Quarter 2006

During this sampling event, one ERB was collected and submitted for the same analyses as the sample that the equipment was used to collect. The following analytes were detected in the ERB during the First Quarter 2006.

- Equipment blank LF08GW02BRB03 had a detected level of sodium at 1,300 µg/L. The associated samples had sodium values greater than five times the blank amount, and qualification was not required.
- Equipment blank LF08GW06RB01 had a detected level of sodium at 980 µg/L. The associated samples had sodium values greater than five times the blank amount, and qualification was not required.
- Equipment blank HWGW101RB04 had a detected level of alkalinity at 3.2 mg/L. The associated samples had alkalinity values greater than five times the blank amount and qualification was not required.
- Equipment blank LF08GW06RB01 had detected levels of alkalinity (2.8 mg/L) and total dissolved solids (220 mg/L). The associated samples had alkalinity values greater than five times the blank amount. Qualification was not required for these physical property parameters.

Second Quarter 2006

During this sampling event, one ERB was collected and submitted for the same analyses as the sample that the equipment was used to collect. No analytes were detected in the ERB during the Second Quarter 2006.

6.2.3 Trip Blanks

The laboratory supplied 40-milliliter trip blanks with each shipment of volatile organic compound (VOC) sampling containers sent from the laboratory. One trip blank was included with each cooler containing field samples planned for VOC analyses. Table 9 summarizes the analytical results for the trip blank samples.

First Quarter 2006

11 trip blank samples were received by the analytical laboratories and analyzed for VOCs. No VOCs were detected within any of the trip blank samples collected during this quarter.

Second Quarter 2006

Three trip blank samples were received by the analytical laboratories and analyzed for VOCs. No VOCs were detected within any of the trip blank samples collected during this quarter.

6.2.4 Source Water Blanks

Blaine Tech Services, Inc., the contractor who performed groundwater monitoring tasks, provided deionized water for decontamination purposes from the water deionization system at its San Jose facility. Source water blanks were collected from the outflow of the water deionization system and from the water tanks mounted on one of the sampling vehicles. The source water blanks were submitted to the primary laboratory for all analyses in the Groundwater Monitoring Program. Table 10 summarizes the analytical results for the source water blanks.

First Quarter 2006

Source blank DW031606A was collected from the water tank on a sampling vehicle and had a detected concentrations of total alkalinity (250 mg/L), bicarbonate (250 mg/L), TDS (60 mg/L), bromodichloromethane (0.7 µg/L), and chloroform (7 µg/L). No other analytes were detected above laboratory detection limits within this source water sample during this quarter.

- Total alkalinity was reported in project samples at concentrations ranging from 29 mg/L to 1,300 mg/L. Total alkalinity concentrations in samples collected at the Presidio during the First Quarter 2006 appear to be comparable to those collected in previous quarters, therefore, the detected concentration in the source water blank does not appear to be significant.

- Bicarbonate was reported in project samples at concentrations ranging from 29 mg/L to 1,300 mg/L. Bicarbonate concentrations in samples collected at the Presidio during the First Quarter 2006 appear to be comparable to those collected in previous quarters, therefore, the detected concentration in the source water blank does not appear to be significant.

- TDS was reported in project samples at concentrations ranging from 130 mg/L to 2,890 mg/L. The vast majority of samples collected at the Presidio during the First Quarter 2006 had concentrations greater than 5 times the concentration detected within the source blank and therefore, the detected concentration in the source water blank does not appear to be significant.

- Bromodichloromethane was not detected in any other project samples during the First Quarter 2006 and therefore, this source water detection does not appear to be significant.

- Chloroform was reported in project samples at concentrations ranging from non-detect at < 0.5 µg/L to 2.7 µg/L. Chloroform was detected in concentrations greater than the reporting limit in samples 231GW17, 231GW18, 231GW21, 231GW27, and BHWGW01. These detections could be a result of source water contamination due to the relatively higher concentration of chloroform found in the source water.

Source blank DW031306B was collected from the water deionization system and had a detected level of TDS (70 mg/L) and chloroform (3.1 µg/L). The majority of samples collected at the Presidio during the First Quarter 2006 had TDS concentrations significantly greater than the concentration detected within the source blank and therefore, the detected concentration in the source water blank does not appear to be significant. The chloroform identified in the source water could have potentially resulted in chloroform detections in samples 231GW17, 231GW18, 231GW21, 231GW27, and BHWGW01. No other analytes were detected above laboratory detection limits within this source water sample during this quarter.

Second Quarter 2006

Source blank DW052506A was collected from the water tank on a sampling vehicle and had detected concentrations of total alkalinity (8.9 mg/L), chloride (0.26 mg/L), sulfate (4.9 mg/L), TDS (5,600 mg/L), calcium (3,600 µg/L), and magnesium (910 µg/L). No other analytes were detected above laboratory detection limits within this source water sample during this quarter.

- Total alkalinity was reported in project samples at concentrations ranging from 180 mg/L to 1,200 mg/L. All of samples collected at the Presidio during the Second Quarter 2006 had concentrations greater than 5 times the concentration detected within the source blank and therefore, the detected concentration in the source water blank does not appear to be significant.

- Chloride was reported in project samples at concentrations ranging from 18 mg/L to 930 mg/L. All of samples collected at the Presidio during the Second Quarter 2006 had concentrations greater than 5 times the concentration detected within the source blank and therefore, the detected concentration in the source water blank does not appear to be significant.

- Sulfate was reported in project samples at concentrations ranging from non-detect at <0.5 mg/L to 390 mg/L. Sulfate concentration in the source water sample is considerably less than the vast majority of the samples collected at the Presidio during the Second Quarter 2006. Sulfate concentrations in samples collected at the Presidio during the Second Quarter 2006 appear to be comparable to those collected in previous quarters, therefore, the detected concentration in the source water blank does not appear to be significant.

- TDS was reported in project samples at concentrations ranging from 280 mg/L to 2640 mg/L. Concentration of TDS was greater than that of any of the samples collected at the Presidio during the Second Quarter 2006. The new maximum concentrations of TDS could potentially be a result of source water contamination.

- Calcium was reported in project samples at concentrations ranging from non-detect at <500 µg/L to 165,000 µg/L. Calcium concentration in the source water sample is considerably less than the vast majority of the samples collected at the Presidio during the Second Quarter 2006, therefore, the detected concentration in the source water blank does not appear to be significant.

- Magnesium was reported in project samples at concentrations ranging from 1,400 µg/L to 390,000 µg/L. Magnesium concentration in the source water sample is considerably less than the vast majority of the samples collected at the Presidio during the Second Quarter 2006, therefore, the detected concentration in the source water blank does not appear to be significant.

Source blank DW053006B was collected from the water deionization system and had detected concentrations of total alkalinity (4 mg/L), sulfate (1.4 mg/L) TDS (60 mg/L), calcium (2,000 µg/L). Concentration in the source water sample for these four analytes are considerably less than the vast majority of the samples collected at the Presidio during the Second Quarter 2006, therefore, the detected concentrations in the source water blank does not appear to be significant. No other analytes were detected above laboratory detection limits within this source water sample during this quarter.

6.2.5 Temperature Blanks

Temperature blanks were included in coolers containing field samples sent to analytical laboratories, and the blank temperatures were recorded by the laboratory upon arrival. The QAPP specifies a temperature of 4.0 ^{O}C, plus or minus 2.0 ^{O}C.

First Quarter 2006

The temperature of all 18 temperature blanks sent to Curtis & Tompkins ranged from 2.0 to 5.2 ^{O}C, which is within QAPP requirements.

Second Quarter 2006

The temperature range of all 12 temperature blanks ranged from 2.1 to 5.8 ^{O}C except for two coolers sent to Curtis & Tompkins, which had temperatures of 0.5 and 12.8 ^{O}C upon arrival. The slightly lower blank temperature is not considered to be significant. The cooler with the 12.8 ^{O}C temperature blank did contain ice upon arrival at Curtis & Tompkins and the temperature blank

was noted to be on top of the ice, which indicates that its temperature was likely higher than those of the samples. A review of the results from samples that were shipped to Curtis & Tompkins in this cooler revealed no evidence of sample quality degradation. The slightly higher blank temperature is not considered to be significant.

6.2.6 Matrix Spike and Matrix Spike Duplicate Samples

Three times the normal amount of sample volume was collected on every twentieth groundwater sample for MS/MSD analysis. The MS/MSD results for the various analytical methods were evaluated by DataVal and discussed in the DVSRs, which are attached as Appendix D.

7.0 FIELD WORK DOCUMENTATION

This section describes the field documentation prepared for this sampling event, in conformance with the FSP. Field personnel are responsible for recording field activities on the appropriate field documentation form in sufficient detail to allow reconstruction of the sampling event without relying on memory. The location of completed field documentation forms and logs described in the FSP and used during this sampling event are described below.

- Field Instrument Calibration Logs (located in Appendix B and project files)
- Health & Safety Meeting Form (located in project files)
- Groundwater Level Measurements Logs (located in Appendix C and project files)
- Monitoring Well Sampling Logs (located at the end of each site-specific section in Appendix A and in project files)
- Chain-of-Custody Forms (located in Appendices E and F and project files)
- Field Investigation Daily Reports (located in project files)
- Bound Field Book (located in project files)
- Field Audit Forms (located in project files)

8.0 DISPOSAL OF PURGE AND DECONTAMINATION WATER

All water purged from wells and used for decontamination during the First and Second Quarters 2006 was collected and stored in two 2,800-gallon polyethylene above ground storage tanks located at the Central Magazine. On 29 March and 25 May 2006, water samples WT032906 and WT052506, respectively, were collected from the water tanks with laboratory-supplied containers and submitted to the primary laboratory for the analytes required by the City of San Francisco for batch discharge into the sanitary sewer system. Table 12 summarizes the analyses required by the City of San Francisco and the analytical results. The laboratory data reports are in Appendix E. All results were below discharge criteria. Trust personnel discharged the water to the sanitary sewer.

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TABLES

Table 1 A
Proposed Sampling Schedule First Quarter 2006
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

Site Name/ID	Well ID	Sampling Information				Analytical Requirements																									Notes/Comments
		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHfo	TPHss	
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Landfill 8	LF08GW01	Q	Low Flow	Hand	1		Q1						Q1 (23)			Q1	Q1	Q1	Q1	Q1	Q1		Q1		Q1	Q1	~~Q1~~					A Focused Feasibility Study (FFS) for Landfills 8 and 10 has been prepared. The Trust is ~~writing~~ preparing a RAP for the two landfill sites, which is anticipated to be distributed to stakeholders in 2006. Chlorinated herbicides analysis is proposed for removal due to a lack of detections. Monitoring will continue as shown until the RAP is implemented.
Landfill 8	LF08GW02B	Q	Low Flow	Hand	1		Q1						Q1 (23)			Q1	Q1	Q1	Q1	Q1	Q1		Q1		Q1	Q1	~~Q1~~					
Landfill 8	LF08GW03	Q	Low Flow	Hand	1		Q1						Q1 (23)			Q1	Q1	Q1	Q1	Q1	Q1		Q1		Q1	Q1	~~Q1~~					
Landfill 8	LF08GW04	Q	Low Flow	Hand	1		Q1						Q1 (23)			Q1	Q1	Q1	Q1	Q1	Q1		Q1		Q1	Q1	~~Q1~~					
Landfill 8	LF08GW06	Q	Low Flow	Hand	1		Q1						Q1 (23)			Q1	Q1	Q1	Q1	Q1	Q1		Q1		Q1	Q1	~~Q1~~					
Landfill 8	LF08PZ01	Q	EM	Truck																											
Landfill 8	LF08PZ02	Q	EM	Truck																											
Building 900s	937GW06	Q	Modified	Truck	2												Q1				Q1							Q1	Q1	Q1		The Crissy Field RAP requires that monitoring continue until at least 2007, at which time the monitoring program will be reviewed. A reduction to annual sampling for the Building 900s Area was approved by the stakeholders prior to the First Quarter 2004.
Building 900s	937GW07	Q	Modified	Hand	1												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW12	Q	Normal	Truck	2												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW15	Q	Modified	Hand	2												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW32R	Q	Normal	Truck	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW35	Q	Normal	Hand	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW37	Q	Normal	Truck	1												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW38	Q	Modified	Truck	1												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW39	Q	Modified	Truck	2												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW42	Q	Normal	Truck	4												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW101	Q	Normal	Truck	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW102	Q	Normal	Truck	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW103	Q	Normal	Truck	2												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW104	Q	Normal	LIV	1												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW105	Q	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW106	Q	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW107	Q	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW108	Q	Normal	Truck	1												Q1				Q1							Q1	Q1	Q1		
Building 900s	950GW108	Q	Normal	LIV	4												Q1				Q1							Q1	Q1	Q1		
Building 900s	979GW109	Q	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	979GW110	Q	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	979GW111R	Q	Normal	LIV	1												Q1				Q1							Q1	Q1	Q1		
Building 900s	979GW112	Q	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	979GW113	Q	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	979GW114	Q	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	979GW115	Q	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	979GW116	Q	Normal	LIV	4												Q1				Q1							Q1	Q1	Q1		
Building 900s	979GW117	Q	Modified	LIV	1												Q1				Q1							Q1	Q1	Q1		
Fill Site 1	LF01GW01	Q	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						Due to potential for human exposure, total dissolved solids, dissolved oxygen, and cyanide will continue to be monitored quarterly at El Polin Spring to ensure potential changes in water chemistry are identified in a timely manner.
Fill Site 1	LF01GW02	Q	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						
Fill Site 1	LF01GW03	Q	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						
Fill Site 1	LF01GW04	Q	Modified	Truck	2		Q1						Q1 (22)			Q1	Q1									Q1						
Fill Site 1	LF01GW05	Q	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						
Fill Site 1	LF01GW06	Q	Modified	Truck	2		Q1						Q1 (22)			Q1	Q1									Q1						
Fill Site 1	LF01GW07	Q	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						
El Polin Spring	EPSP01	Q	Surface	Hand	3		Q1						Q1 (22)	Q1 (22)		Q	Q									Q						
Landfill 2	LF02GW01	Q	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						
Landfill 2	LF02GW02	Q	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						
Landfill 2	LF02GW04	Q	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						

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		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHfo	TPHss	
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	**(field probe)**	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Building 1349	1349MW01	Q	Modified	Truck	1		Q1						Q1 (23)			Q1	Q1	**Q1**	Q1		Q1		Q1					Q1	Q1	Q1		
Building 1349	1349MW02	Q	Modified	Truck	1		Q1, Q3						Q1, Q3 (23)			Q1, Q3	Q1, Q3	**Q1, Q3**	Q1, Q3	Q1, Q3	Q1, Q3		Q1, Q3				~~Q1, Q3~~	Q1, Q3	Q1, Q3	Q1, Q3		
Building 1349	1349MW03R	Q	Modified	Hand	1		Q1, Q3						Q (23)			Q	Q	**Q**	Q1, Q3	Q1, Q3	Q1, Q3		Q1, Q3				~~Q1, Q3~~	Q1, Q3	Q1, Q3	Q1, Q3		
Building 1349	1349MW100	Q	Modified	Truck	4		Q						Q (23)			Q	Q	**Q**	Q	Q1, Q3	Q		Q				~~Q1, Q3~~	Q	Q	Q		The reduction to annual sampling at wells (1349MW01, and 1349MW103 through 1349MW105) not serving as upgradient monitoring points for Fill Site 5 (per the Fill Site 5 RAP) until the Building 1349 Area CAP has been finalized was approved by the stakeholders prior to First Quarter 2004 based on the lack of significant detections. In accordance with the Fill Site 5 RAP, several analyses have been reduced to semi-annual (Q1, Q3) because no cleanup level exceedances have been measured within four consecutive monitoring events. Chlorinated herbicide analyses have been proposed for removal from the Building 1349 Area due to a lack of significant detections. Additionally, in accordance with the Fill Site 5 RAP, chlorinated herbicide analyses will no longer be conducted at Building 1349 Area monitoring wells associated with Fill Site 5. ORP is proposed to be measured for the evaluation of redox conditions, in accordance with recommendations from the Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites (pending).
Building 1349	1349MW101	Q	Modified	Hand	1		Q1, Q3						Q1, Q3 (23)			Q1, Q3	Q1, Q3	**Q1, Q3**	Q1, Q3	Q1, Q3	Q1, Q3		Q1, Q3				~~Q1, Q3~~	Q1, Q3	Q1, Q3	Q1, Q3		
Building 1349	1349MW102	Q	Modified	Hand	3		Q1, Q3						Q1, Q3 (23)			Q1, Q3	Q1, Q3	**Q1, Q3**	Q1, Q3	Q1, Q3	Q1, Q3		Q1, Q3				~~Q1, Q3~~	Q1, Q3	Q1, Q3	Q1, Q3		
Building 1349	1349MW103	Q	Modified	Hand	2		Q1						Q1 (23)			Q1	Q1	**Q1**	Q1		Q1		Q1					Q1	Q1	Q1		
Building 1349	1349MW104	Q	Modified	Hand	1		Q1						Q1 (23)			Q1	Q1	**Q1**	Q1		Q1		Q1					Q1	Q1	Q1		
Building 1349	1349MW105	Q	Modified	Hand	2		Q1						Q1 (23)			Q1	Q1	**Q1**	Q1		Q1		Q1					Q1	Q1	Q1		

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Presidio of San Francisco, California

Site Name/ID	Well ID	Sampling Information				Analytical Requirements																									Notes/Comments
		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases [4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	**ORP [8]**	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHfo	TPHss	
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	**(field probe)**	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Fill Site 5	LF5GW100	Q	Low Flow	Hand	2		Q1, Q3						Q1, Q3 (23)			Q1, Q3	Q1, Q3	**Q1, Q3**	Q1, Q3	~~Q1, Q3~~	Q1, Q3		Q1, Q3				~~Q1, Q3~~	Q1, Q3	Q1, Q3	Q1, Q3		The following sampling locations are included in the Fill Site 5 groundwater monitoring plan; LF5GW100 through LF5GW104, LF5SP100, 1349MW02, 1349MW03R, 1349MW101, and 1349MW102. Several analyses were reduced to semi-annual monitoring (Q1, Q3) because no cleanup level exceedances have been detected in four consecutive quarters, in accordance with the RAP. The only analytes that have been detected in excess of cleanup levels (within the last four quarters) are dissolved metals within LF5GW101 and LF5SP100. Metals analyses will continue on a quarterly basis within LF5GW101 and LF5SP100. Additionally, it should be noted that a metals exceedance was recently reported within 1349MW03R. Chlorinated herbicides and PCBs are proposed for removal from the Fill Site 5 monitoring program due to a lack of detections, in accordance with the RAP. The reduction to semi-annual sampling for VOCs and PAHs within Fill Site 5 monitoring wells (LF5GW100 through LF5GW104) (per the Fill Site 5 RAP) was approved in the Fourth Quarter 2004 because no RAP-specified cleanup levels have been exceeded in at least four quarters for any of these compounds within any Fill Site 5 monitoring well samples.
Fill Site 5	LF5GW101	Q	Low Flow	Hand	2		Q1, Q3						Q (23)			Q1, Q3	Q	**Q1, Q3**	Q1, Q3	~~Q1, Q3~~	Q1, Q3		Q1, Q3				~~Q1, Q3~~	Q1, Q3	Q1, Q3	Q1, Q3		
Fill Site 5	LF5GW102	Q	Modified	Hand	1		Q1, Q3						Q1, Q3 (23)			Q1, Q3	Q1, Q3		Q1, Q3	~~Q1, Q3~~	Q1, Q3		Q1, Q3				~~Q1, Q3~~	Q1, Q3	Q1, Q3	Q1, Q3		
Fill Site 5	LF5GW103	Q	Modified	Hand	1		Q1, Q3						Q1, Q3 (23)			Q1, Q3	Q1, Q3		Q1, Q3	~~Q1, Q3~~	Q1, Q3		Q1, Q3				~~Q1, Q3~~	Q1, Q3	Q1, Q3	Q1, Q3		
Fill Site 5	LF5GW104	Q	Modified	Hand	1		Q1, Q3						Q1, Q3 (23)			Q1, Q3	Q1, Q3		Q1, Q3	~~Q1, Q3~~	Q1, Q3		Q1, Q3				~~Q1, Q3~~	Q1, Q3	Q1, Q3	Q1, Q3		
Fill Site 5	LF5SP100	Q	Surface	Hand	2		Q1, Q3						Q (23)	Q (23)		Q1, Q3	Q		Q1, Q3	~~Q1, Q3~~	Q1, Q3											

Table 1 A
Proposed Sampling Schedule First Quarter 2006
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Site Name/ID	Well ID	Sampling Information				Analytical Requirements																									Notes/Comments
		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases [4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals [5,6]	Total Metals [5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	**ORP [8]**	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHfo	TPHss	
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	**(field probe)**	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Landfill 4	LF04GW03	Q	Low Flow	Truck	3		~~Q~~						~~Q (23)~~			~~Q~~	~~Q~~		~~Q1, Q3~~	~~Q1, Q3~~	~~Q~~		~~Q~~				~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~		~~In accordance with the Landfill 4 RAP, the reduction to semi-annual sampling for general chemistry, dissolved metals, TDS, dissolved oxygen, VOCs, and PAHs within Landfill 4 monitoring wells (LF4GW102 through LF4GW106) was approved by stakeholders prior to the Second Quarter 2005 because no RAP-specified cleanup levels have been exceeded in at least four quarters for any of these compounds within any Landfill 4 monitoring well samples collected from these wells.~~ ~~Landfill 4 monitoring wells LF04GW03, LF4GW100 and LF4GW101 do not typically contain sufficient water for sampling and therefore, four quarters of samples have not been collected within these wells.~~ ~~The reduction to semi-annual sampling for OCPs and TPH within all Landfill 4 monitoring wells (per the Landfill 4 RAP) was approved in the Fourth Quarter 2004 because no RAP-specified cleanup levels have been exceeded in at least four quarters for any of these compounds within any Landfill 4 monitoring well samples.~~
Landfill 4	LF4GW100	Q	Low Flow	Truck	1		~~Q~~						~~Q (23)~~			~~Q~~	~~Q~~		~~Q1, Q3~~	~~Q1, Q3~~	~~Q~~		~~Q~~				~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~		
Landfill 4	LF4GW101	Q	Low Flow	Truck	1		~~Q~~						~~Q (23)~~			~~Q~~	~~Q~~		~~Q1, Q3~~	~~Q1, Q3~~	~~Q~~		~~Q~~				~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~		
Landfill 4	LF4GW102	Q	Modified	Hand	2		~~Q1, Q3~~						~~Q1, Q3 (23)~~			~~Q1, Q3~~	~~Q1, Q3~~		~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~		~~Q1, Q3~~				~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~		See Attachment 1 for a review of the Post-Remediation Groundwater Monitoring program at Landfill 4. Post-remediation groundwater monitoring requirements from the RAP have been met for TPH, PAHs, VOCs, OCPs, and chlorinated herbicides for the required frequency of monitoring and therefore, these analytical compounds will no longer be included in the Groundwater Monitoring Program at Landfill 4.
Landfill 4	LF4GW103	Q	Modified	Hand	1		Q~~1, Q3~~						Q~~1, Q3~~ (~~23~~14)			Q~~1, Q3~~	Q~~1, Q3~~		~~Q1, Q3~~	Q1, Q3	~~Q1, Q3~~		~~Q1, Q3~~				~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~		
Landfill 4	LF4GW104	Q	Modified	Hand	1		Q~~1, Q3~~						Q~~1, Q3~~ (~~23~~14)			Q~~1, Q3~~	Q~~1, Q3~~		~~Q1, Q3~~	Q1, Q3	~~Q1, Q3~~		~~Q1, Q3~~				~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~		Due to recent cleanup level exceedances of dissolved nickel and Aroclor 1260 and fluctuating concentrations of general chemistry parameters in wells LF4GW103 and/or -104, the Trust will continue to monitor for dissolved metals, PCBs, general chemistry parameters, and TDS as indicated within wells LF4GW103 and -104.
Landfill 4	LF4GW105	Q	Modified	Hand	1		~~Q1, Q3~~						~~Q1, Q3 (23)~~			~~Q1, Q3~~	~~Q1, Q3~~		~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~		~~Q1, Q3~~				~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~		Wells LF4GW100, -101, and -03 are screened in shallower lithologic units and are often dry or have insufficient water to sample. Well LF4GW100 has never had sufficient water to sample. When sampled, cleanup levels have been met in these wells since remediation was conducted in 2003. Therefore, these wells will no longer be scheduled for sampling, however, they will continue to have water levels measured on a quarterly basis.
Landfill 4	LF4GW106	Q	Modified	Truck	1		~~Q1, Q3~~						~~Q1, Q3 (23)~~			~~Q1, Q3~~	~~Q1, Q3~~		~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~		~~Q1, Q3~~				~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~		

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Site Name/ID	Well ID	Sampling Information				Analytical Requirements																									Notes/Comments
		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHfo	TPHss	
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Comm / PX	600GW101	Q	Low Flow	Truck	3		Q	Q	~~Q~~				Q (14)			Q	Q	Q				Q			Q			Q	Q	Q		The Final ~~A Draft~~ CAP for the ~~site~~ Comm/PX Area was submitted to the regulatory agencies for review in December 2005. Groundwater sampling will continue to be conducted at the Commissary/PX Area as shown until the CAP is implemented~~, with the exception of the arsenic speciation analysis~~. ~~In addition to the Draft CAP monitoring plan, several new analyses were added during the Fourth Quarter 2004 to the Commissary/PX Area groundwater monitoring program to further evaluate the oxidation/reduction state of site groundwater.~~ Dissolved gases are proposed for removal from the program for the evaluation of redox conditions, in accordance with recommendations from the Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites (pending). ORP is proposed to be measured for the evaluation of redox conditions, in accordance with recommendations from the Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites (pending).
Comm / PX	600GW102	Q	Normal	Truck	3		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1		Q1		Q1			Q1	Q1	Q1		
Comm / PX	600GW103	Q	Normal	Truck	3		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1		Q1		Q1			Q1	Q1	Q1		
Comm / PX	600GW104	Q	Normal	Truck	3		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1		Q1		Q1			Q1	Q1	Q1		
Comm / PX	600GW105	Q	Low Flow	Truck	3		Q	Q	~~Q~~				Q (14)			Q	Q	Q			Q1		Q1		Q			Q	Q	Q		
Comm / PX	600GW106	Q	Low Flow	Truck	3		Q	Q	~~Q~~				Q (14)			Q	Q	Q			Q1		Q1		Q			Q	Q	Q		
Comm / PX	600GW107	Q	Modified	Truck	3		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1		Q1		Q1			Q1	Q1	Q1		
Comm / PX	600GW108	Q	Low Flow	Hand	3		Q	Q	~~Q~~				Q (14)			Q	Q	Q			Q		Q		Q			Q	Q	Q		~~A baseline of arsenic speciation and dissolved gas analytical results has been collected at the Commissary/PX Area. The arsenic speciation and dissolved gas results collected provide a useful baseline of redox information, which aid in evaluating the redox state of groundwater. A redox evaluation was included in the *Semi-Annual Groundwater Monitoring Report, First and Second Quarters 2005*. Arsenic speciation analysis is no longer required to evaluate groundwater redox conditions at the Commissary/PX Area and therefore, this analysis is no longer proposed. Dissolved arsenic will continue to be analyzed as part of the dissolved metals analysis.~~
Comm / PX	600GW109	Q	Normal	Hand	3		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1		Q1		Q1			Q1	Q1	Q1		
Comm / PX	610GW101	Q	Low Flow	Truck	1		Q	Q	~~Q~~				Q (14)			Q	Q	Q				Q			Q			Q	Q	Q		
Comm / PX	610GW102	Q	Low Flow	Truck	2		Q	Q	~~Q~~				Q (14)			Q	Q	Q				Q			Q			Q	Q	Q		
Comm / PX	610GW103	Q	Low Flow	Truck	3		Q	Q	~~Q~~				Q (14)			Q	Q	Q				Q			Q			Q	Q	Q		~~The redox parameters proposed in the Building 1065 Area CAP (arsenic, aluminum, iron, manganese, TOC, nitrate as N, nitrite as N, sulfate and sulfide) are currently proposed for the Commissary/PX Area. These parameters will continue to be monitored and the results evaluated for changing redox conditions.~~
Comm / PX	610SP01	Q	Surface	Hand	3		Q	Q	~~Q~~				Q (14)	Q (14)		Q	Q	Q				Q			Q			Q	Q	Q		
Comm / PX	610SP02	Q	Surface	Hand	3		Q	Q	~~Q~~				Q (14)	Q (14)		Q	Q	Q				Q			Q			Q	Q	Q		
Landfill E	DAEGW03	Q	Normal	Hand	1		Q1						Q1 (22)			Q1	Q1		Q1	Q1	Q1		Q1					Q1	Q1	Q1		A focused feasibility study has been prepared for Landfill E. The reduction to annual sampling at Landfill E monitoring wells (DAEGW101 through DAEGW104) until the Landfill E RAP has been implemented has been approved. Chlorinated herbicides are proposed for removal from the Landfill E groundwater monitoring due to a lack of detections. The proposed sampling frequency at Landfill E seep (DAESP03) has been increased to quarterly beginning with the First Quarter 2006 to assess seasonal and variable conditions.
Landfill E	DAEGW04	Q	Normal	Hand	2		Q1						Q1 (22)			Q1	Q1				Q1		Q1						Q1	Q1		
Landfill E	DAEGW05	Q	Normal	Hand	1		Q1						Q1 (22)			Q1	Q1		Q1	Q1	Q1		Q1					Q1	Q1	Q1		
Landfill E	DAEGW06	Q	Modified	Hand	1		Q1						Q1 (22)			Q1	Q1				Q1		Q1						Q1	Q1		
Landfill E	DAEGW07	Q	Low Flow	Hand	3		Q1						Q1 (22)			Q1	Q1	Q1	Q1	Q1	Q1		Q1	Q1				Q1	Q1	Q1		
Landfill E	DAEGW08	Q	Normal	Hand	1		Q1						Q1 (22)			Q1	Q1		Q1	Q1	Q1		Q1					Q1	Q1	Q1		
Landfill E	DAESP03	Q	Surface	Hand	1		Q~~1~~			Q~~1~~	Q~~1~~	Q~~1~~	Q~~1~~ (23)	Q~~1~~ (23)		Q~~1~~	Q~~1~~		Q~~1~~	Q~~1~~	Q~~1~~		Q~~1~~			Q~~1~~	Q~~1~~	Q~~1~~	Q~~1~~	Q~~1~~	Q~~1~~	
Landfill E	DAEGW101	Q	Modified	Hand	1		Q1			Q1	Q1	Q1	Q1 (23)			Q1	Q1		Q1	Q1	Q1		Q1				Q~~1~~	Q1	Q1	Q1		
Landfill E	DAEGW102	Q	Modified	Hand	2		Q1			Q1	Q1	Q1	Q1 (23)			Q1	Q1		Q1	Q1	Q1		Q1				Q~~1~~	Q1	Q1	Q1		
Landfill E	DAEGW103	Q	Normal	Truck	2		Q1			Q1	Q1	Q1	Q1 (23)			Q1	Q1		Q1	Q1	Q1		Q1				Q~~1~~	Q1	Q1	Q1		
Landfill E	DAEGW104	Q	Modified	Hand	1		Q1			Q1	Q1	Q1	Q1 (23)			Q1	Q1		Q1	Q1	Q1		Q1				Q~~1~~	Q1	Q1	Q1		
Landfill E	DAEPZ101	Q	EM	Hand	--																											
Landfill E	DAEPZ102	Q	EM	Hand	--																											

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Site Name/ID	Well ID	Sampling Information				Analytical Requirements																									Notes/Comments
		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	**ORP[8]**	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHfo	TPHss	
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	**(field probe)**	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Nike Facility	NKGW01	Q	Modified	Truck	2	Q1, Q3							Q1 (23)			Q1	Q1, Q3				Q1					Q1		Q1	Q1	Q1		No changes to the Nike Missile Facility monitoring program are currently proposed.
Nike Facility	NKGW02	Q	Modified	Truck	1	Q1, Q3							Q1 (23)			Q1	Q1, Q3				Q1					Q1		Q1	Q1	Q1		
Nike Facility	NKGW03	Q	Low Flow	Truck	1	Q1, Q3							Q1 (23)			Q1	Q1, Q3	**Q1, Q3**			Q1					Q1		Q1	Q1	Q1		
Nike Facility	NKGW04	Q	Modified	Truck	3	Q1, Q3							Q1 (23)			Q1	Q1, Q3				Q1					Q1		Q1	Q1	Q1		
Nike Facility	NKGW05	Q	Modified	Truck	2	Q1, Q3							Q1 (23)			Q1	Q1, Q3				Q1					Q1		Q1	Q1	Q1		
Baker Beach Disturbed Area 3	BB3GW100	Q	Modified	Hand	1		Q						Q (22)			Q	Q											Q	Q	Q		Groundwater analyses ~~will be~~ are conducted in general accordance with the Baker Beach Disturbed Area 3 ~~Remedial Action Plan~~ (RAP). Fixed monitoring points BB3SW100 through BB3SW102 ~~will be~~ are sampled using a disposable bailer and ~~will be~~ are purged prior to sampling, in accordance with the modified method of purging.
Baker Beach Disturbed Area 3	BB3GW101	Q	Modified	Hand	1		Q						Q (22)			Q	Q											Q	Q	Q		
Baker Beach Disturbed Area 3	BB3PZ101	Q	Modified	Hand	1		Q						Q (22)			Q	Q											Q	Q	Q		In accordance with the RAP, TPH analyses are proposed for reduction to semi-annual sampling at BB3SW101 and BB3SW102, as no TPH detections have occurred for four quarterly events. For metals, chromium exceeded the cleanup level during the Fourth Quarter 2005 at BB3SW102; thus, all seeps will continue to be analyzed on a quarterly basis for metals and general chemistry parameters. At BB3GW101, BB3PZ101, and BB3SW100, no detections have occurred above cleanup levels over one or two events; sampling of these wells will continue on a quarterly basis until sufficient data have been collected. At BB3GW100, no TPH detections have occurred and metals have not been detected above cleanup levels. Per the RAP, monitoring at BB3GW100 could be reduced to a semi-annual basis, however, quarterly sampling of this well will continue for evaluation of upgradient conditions.
Baker Beach Disturbed Area 3	**BB3PZ102**	**Q**	**Modified**	**Hand**	**1**		**Q**						**Q (22)**	**Q (22)**		**Q**	**Q**											**Q**	**Q**	**Q**		
Baker Beach Disturbed Area 3	BB3SW100	Q	Modified	Hand	1		Q						Q (22)	Q (22)		Q	Q											Q	Q	Q		
Baker Beach Disturbed Area 3	BB3SW101	Q	Modified	Hand	1		Q						Q (22)	Q (22)		Q	Q											Q**1, Q3**	Q**1, Q3**	Q**1, Q3**		
Baker Beach Disturbed Area 3	BB3SW102	Q	Modified	Hand	1		Q						Q (22)	Q (22)		Q	Q											Q**1, Q3**	Q**1, Q3**	Q**1, Q3**		At the request of the DTSC, piezometer BB3PZ102 and surface water location BB3SW104 were added to the groundwater monitoring program prior to the First Quarter 2006 to evaluate downgradient and surface water dissolved and total metal concentrations.
Baker Beach Disturbed Area 3	**BB3SW104**	**Q**	**Surface**	**Hand**	**1**		**Q**						**Q (22)**	**Q (22)**		**Q**	**Q**											**Q**	**Q**	**Q**		
Battery Howe/Wagner	BHWGW01	Q	Low Flow	Truck	3		Q1						Q1 (3)				Q1	**Q1**			Q1											
Battery Howe/Wagner	BHWGW04	Q	Low Flow	Truck	1		Q1						Q1 (3)				Q1	**Q1**			Q1											
Battery Howe/Wagner	BHWGW05	Q	Low Flow	Truck	2		Q1						Q1 (3)				Q1	**Q1**			Q1											
Battery Howe/Wagner	HWGW100	Q	Low Flow	Truck	1		Q1						Q1 (3)				Q1	**Q1**			Q1											
Battery Howe/Wagner	HWGW101	Q	Low Flow	Truck	1		Q1						Q1 (3)				Q1	**Q1**			Q1											
Battery Howe/Wagner	HWGW102	Q	Low Flow	Truck	1		Q1						Q1 (3)				Q1	**Q1**			Q1											

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		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHfo	TPHss	
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	**(field probe)**	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Fill Site 6B	LF6GW100	Q	Modified	Truck	1		Q1	Q1	~~Q1~~				Q1 (23)			Q1	Q1	**Q1**	Q1	Q1			Q1		Q1			Q1	Q1			A decision document for Fill Site 6B is currently being prepared. The reduction in sampling frequency for Fill Site 6B wells to annual was approved by the stakeholders prior to First Quarter 2004. The Fill Site 6A RAP is currently being implemented. ~~Monitoring well LF6GW102 was abandoned as part of the remedial action.~~ Fill Site 6A monitoring well LF6GW103 will continue to be sampled in order to provide upgradient groundwater data for the Building 1065 Area. Fill Site 6A wells ~~will be~~ are sampled in accordance with the RAP ~~following the remedial action~~.
Fill Site 6B	LF6GW101	Q	Modified	Truck	1		Q1	Q1	~~Q1~~				Q1 (23)			Q1	Q1	**Q1**	Q1	Q1			Q1		Q1			Q1	Q1			~~Arsenic speciation and dissolved gas analytical results have been collected at Fill Site 6 in order to provide upgradient information for the Building 1065 Area. The arsenic speciation and dissolved gas results collected provide a useful baseline of redox information, which will aids in evaluating the redox state of groundwater. A redox evaluation has been will be included in the *Semi-Annual Groundwater Monitoring Report, First and Second Quarters 2005*.~~
Fill Site 6A	LF6GW103	Q	Modified	Truck	1		Q	Q1	~~Q1~~				Q (23)			Q	Q	**Q**	Q	Q			Q		Q1			Q	Q			~~Arsenic speciation analysis is no longer required to evaluate groundwater redox conditions at the Site and therefore, this analysis is no longer proposed. The redox parameters proposed in the Building 1065 Area CAP (arsenic, aluminum, iron, manganese, TOC, nitrate as N, nitrite as N, sulfate and sulfide) are currently proposed at Fill Site 6 to provide upgradient redox information. These parameters will continue to be monitored and the results evaluated for changing redox conditions.~~
Fill Site 6A	LF6GW104	Q	Modified	Hand	TBD		Q	Q1					Q (23)			Q	Q	**Q**					Q		Q1				Q	Q		
Fill Site 6A	LF6GW105	Q	Modified	Hand	TBD		Q	Q1					Q (23)			Q	Q	**Q**							Q1							
Fill Site 6A	LF6GW106	Q	Modified	Hand	TBD		Q	Q1					Q (23)			Q	Q	**Q**					Q		Q1				Q	Q		~~The addition of LF6GW104, LF6GW105, and LF6GW106 completes the Fill Site 6A groundwater monitoring network. The proposed Fill Site 6A sampling plan is consistent with the Fill Site 6A RAP.~~ Additionally, TPHd, TPHfo and PAHs ~~have been added to~~ are sampled at monitoring wells LF6GW104 and LF6GW106 to assess impacts from the nearby FDS lines.
Fill Site 6A	**LF6PZ101**	**Q**	**EM**	**Hand**	**TBD**																											
Fill Site 6A	**LF6PZ102**	**Q**	**EM**	**Hand**	**TBD**																											
Fill Site 6A	**LF6PZ103**	**Q**	**EM**	**Hand**	**TBD**																											
Fill Site 6A	**LF6PZ104**	**Q**	**EM**	**Hand**	**TBD**																											Dissolved gases are proposed for removal from the program for the evaluation of redox conditions, in accordance with recommendations from the Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites (pending). ORP is proposed to be measured for the evaluation of redox conditions, in accordance with recommendations from the Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites.
Fill Site 6A	**LF6PZ105**	**Q**	**EM**	**Hand**	**TBD**																											
Fill Site 6A	**LF6PZ106**	**Q**	**EM**	**Hand**	**TBD**																											

Table 1 A
Proposed Sampling Schedule First Quarter 2006
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

Site Name/ID	Well ID	Sampling Information				Analytical Requirements																									Notes/Comments
		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHfo	TPHss	
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Bldg 1065	1065PZ1A	Q	Low Flow	Truck	4		Q	Q	~~Q~~				Q (15)			Q	Q	Q			Q				Q			Q	Q	Q		A Draft CAP for the Building 1065 Area has been submitted to the regulatory agencies for review. Building 1065 monitoring wells and piezometers will continue to be sampled as shown, ~~with the exception of arsenic speciation analyses,~~ until implementation of the Building 1065 CAP, after which sampling will be in accordance with CAP requirements. Dissolved antimony was also added to the metals list to evaluate recent detections during the Building 1065 investigation.
Bldg 1065	1065PZ1B	Q	Normal	Truck	1		Q						Q (15)			Q	Q	Q			Q				Q			Q	Q	Q		
Bldg 1065	1065PZ2A	Q	Low Flow	Truck	3		Q	Q	~~Q~~				Q (15)			Q	Q	Q				Q			Q			Q	Q	Q		
Bldg 1065	1065PZ2B	Q	Normal	Truck	1		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ3A	Q	Low Flow	Truck	2		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ3B	Q	Normal	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ4A	Q	Low Flow	Truck	3		Q	Q	~~Q~~				Q (15)			Q	Q	Q				Q			Q			Q	Q	Q		
Bldg 1065	1065PZ4B	Q	Modified	Truck	1		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ5AR	Q	Normal	Truck	3		Q	Q	~~Q~~				Q (15)			Q	Q	Q				Q			Q			Q	Q	Q		
Bldg 1065	1065PZ5B	Q	Modified	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ6A	Q	Modified	Truck	4		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ6B	Q	Normal	Truck	1		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ7A	Q	Modified	Truck	1		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		~~A baseline of arsenic speciation and dissolved gas analytical results has been collected at the Building 1065 Area. The arsenic speciation and dissolved gas results collected provide a useful baseline of redox information, which aid in evaluating the redox state of groundwater. A redox evaluation has been included in the *Semi-Annual Groundwater Monitoring Report, First and Second Quarters 2005*.~~
Bldg 1065	1065PZ7B	Q	Modified	Truck	1		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065MW9A	Q	Normal	Truck	3		Q	Q	~~Q~~				Q (15)			Q	Q	Q				Q			Q			Q	Q	Q		
Bldg 1065	1065MW9B	Q	Normal	Truck	3		Q						Q (15)			Q	Q	Q				Q			Q			Q	Q	Q		
Bldg 1065	1065MW10A	Q	Normal	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065MW10B	Q	Normal	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		~~Arsenic speciation analysis is no longer required to evaluate groundwater redox conditions at the Commissary/PX Area and therefore, this analysis is no longer proposed. The redox parameters proposed in the Building 1065 Area CAP (arsenic, aluminum, iron, manganese, TOC, nitrate as N, nitrite as N, sulfate and sulfide) are currently proposed for the Building 1065 Area in order to be consistent with other sites previously collecting redox parameters.~~ Dissolved gases are proposed for removal from the program for the evaluation of redox conditions, in accordance with recommendations from the Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites. ORP is proposed to be measured for the evaluation of redox conditions, in accordance with recommendations from the Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites.
Bldg 1065	1065MW11A	Q	Normal	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065MW11B	Q	Normal	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065MW101	Q	Low Flow	Truck	3		Q	Q	~~Q~~				Q (15)			Q	Q	Q			Q				Q			Q	Q	Q		
Bldg 1065	1065MW102	Q	Low Flow	Truck	3		Q	Q	~~Q~~				Q (15)			Q	Q	Q			Q				Q			Q	Q	Q		
Bldg 1065	1047MW101	Q	Normal	Truck	1		Q1						Q1 (15)			Q1	Q1	Q1			Q				Q1			Q			Q[10]	

Table 1 A
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Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

Site Name/ID	Well ID	Sampling Information				Analytical Requirements																									Notes/Comments
		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHfo	TPHss	
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Bldg 207/231	207GW03	Q	Normal	Truck	2		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		The Building 207/231 Area CAP has been submitted to the stakeholders. The reduction in sampling frequency to annual (during First Quarter, except monitoring well 231GW09) for all wells until the CAP is implemented has been approved. Monitoring wells 231GW09, 231GW10, 231GW13, 231GW20, 231GW21, 231GW22, 231GW26, 231PZ01, and 231PZ04 will be sampled at least two months prior to the Building 231/207 Area remedial action (currently anticipated to be during the Third Quarter 2006), which is scheduled to begin in December 2006.
Bldg 207/231	231GW06	Q	Normal	Truck	1		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231 (Fill Site 6A)	231GW09	Q	Modified	Truck	1		Q	Q	~~Q~~				Q (23)			Q	Q	Q			Q				Q			Q	Q	Q		
Bldg 207/231	231GW10	Q	Low Flow	Truck	2		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW11	Q	Modified	Truck	1		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW13	Q	Normal	Truck	1		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW15	Q	Normal	Truck	1		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW16	Q	Low Flow	Truck	3		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW17	Q	Normal	Truck	2		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW18	Q	Normal	Truck	2		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW19	Q	Normal	Truck	1		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW20	Q	Normal	Truck	2		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		Sampling will be performed per the CAP following the remedial action. Sampling of monitoring well 231GW09 will continue to provide upgradient data for Fill Site 6A. Following the remedial action, five new monitoring wells and three existing monitoring wells (231GW09, 231GW11, and 231GW25) will be sampled in accordance with the CAP monitoring plan.
Bldg 207/231	231GW21	Q	Low Flow	Truck	4		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW22	Q	Low Flow	Truck	4		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW23	Q	Modified	Truck	2		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW24	Q	Normal	Truck	1		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW25	Q	Modified	Truck	2		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		~~A baseline of arsenic speciation and dissolved gas analytical results has been collected at the Building 231/207 Area. The arsenic speciation and dissolved gas results collected provide a useful baseline of redox information, which aid in evaluating the redox state of groundwater. A redox evaluation has been included in the *Semi-Annual Groundwater Monitoring Report, First and Second Quarters 2005*.~~ Dissolved gases are proposed for removal from the program for the evaluation of redox conditions, in accordance with recommendations from the Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites. ORP is proposed to be measured for the evaluation of redox conditions, in accordance with recommendations from the Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites.
Bldg 207/231	231GW26	Q	Normal	Truck	2		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW27	Q	Normal	Truck	2		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW28	Q	Modified	Truck	2		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW29	Q	Normal	Truck	2		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW30	Q	Low Flow	Truck	3		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231PZ01	Q	Low Flow	Truck	4		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231PZ02	Q	Low Flow	Truck	4		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		~~Arsenic speciation analysis is no longer required to evaluate groundwater redox conditions at the Site and therefore, this analysis is no longer proposed. The redox parameters proposed in the Building 1065 Area CAP (arsenic, aluminum, iron, manganese, TOC, nitrate as N, nitrite as N, sulfate and sulfide) are currently proposed for the Building 231/207 in order to be consistent with other sites previously collecting redox parameters. The listed analytes will continue to be collected as shown until the CAP is implemented.~~
Bldg 207/231	231PZ03	Q	Low Flow	Truck	4		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231PZ04	Q	Low Flow	Truck	4		Q1	Q1	~~Q1~~				Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	OW-1	Q	EM	Truck																												
Bldg 1027/1065	1027MW01	Q	EM	Truck																												
Bldg 1027/1065	1027MW03	Q	EM	Truck																												
Mini-CAP Areas	FM14EX07GW102	Q	Normal	~~TBD~~ Truck	~~TBD~~ 1												Q					Q	*Q1					Q	Q	Q		One round of confirmation sampling for PAHs is proposed at all mini-CAP wells to confirm previous sampling where PAH laboratory reporting limits were greater than cleanup levels. One round of confirmation sampling for VOCs is proposed at 1213GW101 to confirm the presence of VOCs.
Mini-CAP Areas	FM14EX07GW101	Q	Normal	~~TBD~~ Truck	~~TBD~~ 1												Q					Q	*Q1					Q	Q	Q		
Mini-CAP Areas	1260GW102	Q	Normal	~~TBD~~ Truck	~~TBD~~ 1												Q					Q	*Q1					Q	Q	Q		
Mini-CAP Areas	1260GW103	Q	Normal	~~TBD~~ Truck	~~TBD~~ 1												Q					Q	*Q1					Q	Q	Q		
Mini-CAP Areas	1260GW101	Q	Normal	~~TBD~~ Truck	~~TBD~~ 1												Q					Q	*Q1					Q	Q	Q		
Mini-CAP Areas	1213GW101	Q	Normal	~~TBD~~ Truck	~~TBD~~ 3												Q				*Q1	Q	*Q1					Q	Q	Q		
Mini-CAP Areas	1221GW103	Q	Normal	~~TBD~~ Truck	~~TBD~~ 1												Q					Q	*Q1					Q	Q	Q		
Mini-CAP Areas	1221GW102	Q	Normal	~~TBD~~ Truck	~~TBD~~ 2												Q					Q	*Q1					Q	Q	Q		
Mini-CAP Areas	1221GW104	Q	Normal	~~TBD~~ Truck	~~TBD~~ 1												Q					Q	*Q1					Q	Q	Q		
Mini-CAP Areas	1221GW101	Q	Normal	~~TBD~~ Truck	~~TBD~~ 1												Q					Q	*Q1					Q	Q	Q		
Mini-CAP Areas	514AGW101	Q	Normal	~~TBD~~ Truck	~~TBD~~ 1												Q					Q	*Q1					Q	Q	Q		

Table 1 A
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Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

Site Name/ID	Well ID	Sampling Information				Analytical Requirements																										Notes/Comments
		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases [4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals [5,6]	Total Metals [5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	**ORP [8]**	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHfo	TPHss	
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	**(field probe)**	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Upgradient	UBR01GW01	Q	EM	Truck																												
Upgradient	UBR02GW01	Q	EM	Truck																												
Upgradient	UBR02GW02	Q	EM	Truck																												
Upgradient	UBR03GW01	Q	EM	Truck																												
Upgradient	UBR03GW02	Q	EM	Truck																												
Tennessee Hollow	TH-1	Q	EM	Hand																												
Tennessee Hollow	TH-2	Q	EM	Truck																												
Tennessee Hollow	TH-3	Q	EM	Truck																												
Tennessee Hollow	TH-4	Q	EM	Hand																												
Tennessee Hollow	PGFGW100	Q	EM	Truck																												
Tennessee Hollow	10GW100	Q	EM	Truck																												
Landfill 10	LF10GW01	Q	Modified	Hand	1		Q1						Q1 (23)			Q1	Q1					Q1										A Focused Feasibility Study (FFS) for Landfills 8 and 10 has been prepared. The Trust is ~~writing~~ preparing a RAP for the two landfill sites, which is anticipated to be distributed to stakeholders in 2006. ~~A reduction to annual sampling is proposed within LF10GW100 and LF10SP100~~ The sampling will continue as shown until the RAP is implemented.
Landfill 10	LF10GW02	Q	Normal	Hand	1		Q1						Q1 (23)			Q1	Q1					Q1										
Landfill 10	LF10GW03	Q	Modified	Hand	2		Q1						Q1 (23)			Q1	Q1					Q1										
Landfill 10	LF10GW100	Q	Normal	Truck	2		Q1						Q1 (23)			Q1	Q1					Q1						Q1	Q1	Q1		
Landfill 10	LF10SP01	Q	Surface	Hand	2		Q1						Q1 (23)	Q1 (23)		Q1	Q1					Q1						Q1	Q1	Q1		

Notes
1 - Normal, Low Flow, Modified, and Surface water sampling techniques. A description of sampling techniques can be found in the *Field Sampling Plan, Presidio Groundwater Monitoring Project* (Treadwell & Rollo, 2001a).
2 - Truck - Well accessible by truck
LIV - Low Impact Vehicle - Well accessible by LIV or hand truck only
Hand - Well accessible by hand truck only
3 - Sampling Order: At each site sample the wells with the lowest number first. For example, sample the number 1 wells first, the number 2 wells second etc. The following key explains the numbering system.
1 - Wells without significant detections of chemicals of concern
2 - Wells with occasional detections of low concentrations chemicals of concern
3 - Wells with consistent or recent detections of low concentrations chemicals of concern
4 - Wells with high concentrations of chemicals of concern
5 - Wells with very high concentrations of chemicals of concern. Potential for free phase product.
4 - Dissolved gases include methane, ethane, and ethene.
5 - Beginning with Second Quarter 2003, variance was granted from QAPP specified reporting limit requirements for seven metals.
6 - The table has been reformatted to one dissolved metals column. The number of dissolved metals proposed for analysis are denoted by parentheses. For example, Q (23) indicates the 23 metals list should be analyzed on a quarterly basis. The metals associated with each metals list are detailed below.
23 Metals List - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn.
22 Metals List - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn.
15 Metals List - Al, Sb, As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Pb, Ni and Zn.
14 Metals List - Al, As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Pb, Ni and Zn.
9 Metals List - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn.
8 Metals List - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn.
7 Metals List - As, Cr, Cd, Cu, Pb, Ni and Zn.
3 Metals List - Al, Fe, and Cr.
7 - Dissolved Oxygen (DO) concentration will be included in field sampling logs. DO values should be recorded immediately before sample collection.

8 - Oxidation-Reduction Potential (ORP) is measured within all wells proposed to be sampled using the low flow method using a flow through cell. For specified wells identified to be sampled by either the normal or modified methods and proposed for ORP measurements, ORP will be measured using a down-hole meter.
9 - Total sulfides are analyzed by the laboratory for all samples collected at the Presidio.
10 - Stoddard Solvent is a specialized formulation of gasoline. Laboratory quantification for Stoddard Solvent is achieved by comparing the shape of the analytical chromatogram within the same carbon range as TPHg for a diagnostic combination of spikes. Since TPHg is also proposed for analysis in this well, the comparison between this well and other sites which may be or have been evaluated for Stoddard Solvent will be maintained. Stoddard Solvent has been specified for this well per MACTEC request. MACTEC will evaluate the Stoddard Solvent data as part of their Building 1047 investigation.

Bold red text indicates proposed changes for the First Quarter 2006.
All surface seeps where metals analysis is proposed will have two samples collected; one will be filtered and analyzed for dissolved metals and another one will not be filtered and analyzed for total metals.
EM - Elevation Monitoring only
Surface - Surface Water Sampling per Standard Operating Procedure
Trust - the Presidio Trust will evaluate seep BB3SP01 for flow on a quarterly basis and will inform the sampling crew if a sample can be collected.
Q1, Q3, etc. - Sample during specified quarters only
Q - Sample during all quarters unless otherwise directed
***Q1 - Sample during Q1 2006 only**
TPHg, TPHd, TPHfo, TPHss: Total Petroleum Hydrocarbons as gasoline, diesel, fuel oil, and stoddard solvent - EPA 3630A: Silica Gel Cleanup Step
General Chemistry Parameters; Alkalinity (total), bicarbonate, carbonate, chloride, fluoride, nitrate+nitrite (as N), sulfate
NDMA - N-nitrosodimethylamine
TBD - To Be Determined

Table 1B
Proposed Sampling Schedule Second Quarter 2006
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

Site Name/ID	Well ID	Sampling Information				Analytical Requirements																									Notes/Comments
		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHo	TPHss	
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Landfill 8	LF08GW01	Q	Low Flow	Hand	1		Q1						Q1 (23)			Q1	Q1	Q1	Q1	Q1	Q1		Q1		Q1	Q1						A Focused Feasibility Study (FFS) for Landfills 8 and 10 has been prepared. The Trust is preparing a RAP for the two landfill sites, which is anticipated to be distributed to stakeholders in 2007~~6~~. ~~Chlorinated herbicides analysis is proposed for removal due to a lack of detections.~~ Monitoring will continue as shown until the RAP is implemented.
Landfill 8	LF08GW02B	Q	Low Flow	Hand	1		Q1						Q1 (23)			Q1	Q1	Q1	Q1	Q1	Q1		Q1		Q1	Q1						
Landfill 8	LF08GW03	Q	Low Flow	Hand	1		Q1						Q1 (23)			Q1	Q1	Q1	Q1	Q1	Q1		Q1		Q1	Q1						
Landfill 8	LF08GW04	Q	Low Flow	Hand	1		Q1						Q1 (23)			Q1	Q1	Q1	Q1	Q1	Q1		Q1		Q1	Q1						
Landfill 8	LF08GW06	Q	Low Flow	Hand	1		Q1						Q1 (23)			Q1	Q1	Q1	Q1	Q1	Q1		Q1		Q1	Q1						
Landfill 8	LF08PZ01	Q	EM	Truck																											
Landfill 8	LF08PZ02	Q	EM	Truck																											
Building 900s	937GW06	Q	Modified	Truck	2												Q1				Q1							Q1	Q1	Q1		The Crissy Field RAP requires that monitoring continue until at least 2007, at which time the monitoring program will be reviewed. A reduction to annual sampling for the Building 900s Area was approved by the stakeholders prior to the First Quarter 2004.
Building 900s	937GW07	Q	Modified	Hand	1												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW12	Q	Normal	Truck	2												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW15	Q	Modified	Hand	2												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW32R	Q	Normal	Truck	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW35	Q	Normal	Hand	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW37	Q	Normal	Truck	1												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW38	Q	Modified	Truck	1												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW39	Q	Modified	Truck	2												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW42	Q	Normal	Truck	4												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW101	Q	Normal	Truck	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW102	Q	Normal	Truck	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW103	Q	Normal	Truck	2												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW104	Q	Normal	LIV	1												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW105	Q	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW106	Q	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW107	Q	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	937GW108	Q	Normal	Truck	1												Q1				Q1							Q1	Q1	Q1		
Building 900s	950GW108	Q	Normal	LIV	4												Q1				Q1							Q1	Q1	Q1		
Building 900s	979GW109	Q	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	979GW110	Q	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	979GW111R	Q	Normal	LIV	1												Q1				Q1							Q1	Q1	Q1		
Building 900s	979GW112	Q	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	979GW113	Q	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	979GW114	Q	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	979GW115	Q	Normal	LIV	3												Q1				Q1							Q1	Q1	Q1		
Building 900s	979GW116	Q	Normal	LIV	4												Q1				Q1							Q1	Q1	Q1		
Building 900s	979GW117	Q	Modified	LIV	1												Q1				Q1							Q1	Q1	Q1		
Fill Site 1	LF01GW01	Q	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						Cyanide has been reduced to annual sampling at the El Polin Spring because it has not been detected at this location since 1994. Additionally, TDS analysis has been reduced to annual based on a lack of significant detections. Due to the potential for human exposure, total dissolved solids, dissolved and total metals, general chemistry parameters and dissolved oxygen ~~and cyanide~~ will continue to be monitored ~~quarterly~~ on an annual basis at El Polin Spring to ensure potential changes in water chemistry are identified ~~in a timely manner~~.
Fill Site 1	LF01GW02	Q	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						
Fill Site 1	LF01GW03	Q	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						
Fill Site 1	LF01GW04	Q	Modified	Truck	2		Q1						Q1 (22)			Q1	Q1									Q1						
Fill Site 1	LF01GW05	Q	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						
Fill Site 1	LF01GW06	Q	Modified	Truck	2		Q1						Q1 (22)			Q1	Q1									Q1						
Fill Site 1	LF01GW07	Q	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						
El Polin Spring	EPSP01	Q	Surface	Hand	3		Q1						Q1 (22)	Q1 (22)		Q1	Q1									Q1						
Landfill 2	LF02GW01	Q	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						
Landfill 2	LF02GW02	Q	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						
Landfill 2	LF02GW04	Q	Modified	Truck	1		Q1						Q1 (22)			Q1	Q1									Q1						

Table 1B
Proposed Sampling Schedule Second Quarter 2006
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

Site Name/ID	Well ID	Sampling Information				Analytical Requirements																								Notes/Comments
		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHo	TPHss	
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Building 1349	1349MW01	Q	Modified	Truck	1		Q1						Q1 (23)			Q1	Q1	Q1	Q1		Q1		Q1					Q1	Q1	Q1		The reduction to annual sampling at wells (1349MW01, and 1349MW103 through 1349MW105) not serving as upgradient monitoring points for Fill Site 5 (per the Fill Site 5 RAP) until the Building 1349 Area CAP has been finalized was approved by the stakeholders prior to First Quarter 2004 based on the lack of significant detections. ~~In accordance with the Fill Site 5 RAP, several analyses have been reduced to semi-annual (Q1, Q3) because no cleanup level exceedances have been measured within four consecutive monitoring events.~~ ~~Chlorinated herbicide analyses have been proposed for removal from the Building 1349 Area due to a lack of significant detections. Additionally, in accordance with the Fill Site 5 RAP, chlorinated herbicide analyses will no longer be conducted at Building 1349 Area monitoring wells associated with Fill Site 5.~~ ORP is ~~proposed to be~~ measured for the evaluation of redox conditions, in accordance with recommendations from the Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites (pending). TPH, PAHs, VOCs, PCBs, chlorinated herbicides, general chemistry parameters, TDS, and dissolved metals (See Attachment 1 for a discussion of chromium results) have met their post-remediation groundwater monitoring requirements and cleanup levels from the Fill Site 5 RAP for the required frequency of monitoring within 1349MW03R, 1349MW101, and 1349MW102. The Trust requests cessation of these analytical compounds from the Groundwater Monitoring Program at Fill Site 5 / Building 1349 (including 1349MW03R, 1349MW101, and 1349MW102) prior to the Second Quarter 2006 (see Attachment 1). It is noted that these three wells will be monitored per requirements of the Building 1349 Area CAP, once it is finalized and implemented.
Building 1349	1349MW02	Q	Modified	Truck	1		Q1, Q3						Q1, Q3 (23)			Q1, Q3	Q1, Q3	Q1, Q3	Q1, Q3	Q1, Q3	Q1, Q3		Q1, Q3					Q1, Q3	Q1, Q3	Q1, Q3		
Building 1349	1349MW03R	Q	Modified	Hand	1		~~Q1, Q3~~						~~Q (23)~~			~~Q~~	~~Q~~	~~Q~~	Q1, Q3	~~Q1, Q3~~	~~Q1, Q3~~		~~Q1, Q3~~					~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~		
Building 1349	1349MW100	Q	Modified	Truck	4		Q						Q (23)			Q	Q	Q	Q	Q1, Q3	Q		Q					Q	Q	Q		
Building 1349	1349MW101	Q	Modified	Hand	1		~~Q1, Q3~~						~~Q1, Q3 (23)~~			~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~	Q1, Q3	~~Q1, Q3~~	~~Q1, Q3~~		~~Q1, Q3~~					~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~		
Building 1349	1349MW102	Q	Modified	Hand	3		~~Q1, Q3~~						~~Q1, Q3 (23)~~			~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~	Q1, Q3	~~Q1, Q3~~	~~Q1, Q3~~		~~Q1, Q3~~					~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~		
Building 1349	1349MW103	Q	Modified	Hand	2		Q1						Q1 (23)			Q1	Q1	Q1	Q1		Q1		Q1					Q1	Q1	Q1		
Building 1349	1349MW104	Q	Modified	Hand	1		Q1						Q1 (23)			Q1	Q1	Q1	Q1		Q1		Q1					Q1	Q1	Q1		
Building 1349	1349MW105	Q	Modified	Hand	2		Q1						Q1 (23)			Q1	Q1	Q1	Q1		Q1		Q1					Q1	Q1	Q1		

Table 1B
Proposed Sampling Schedule Second Quarter 2006
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

Site Name/ID	Well ID	Sampling Information				Analytical Requirements																							Notes/Comments
		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHo	TPHss	
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Fill Site 5	LF5GW100	Q	Low Flow	Hand	2		~~Q1, Q3~~						~~Q1, Q3 (23)~~			~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~	Q1, Q3		~~Q1, Q3~~		~~Q1, Q3~~					~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~		The following sampling locations are included in the Fill Site 5 groundwater monitoring plan; LF5GW100 through LF5GW104, LF5SP100, 1349MW02, 1349MW03R, 1349MW101, and 1349MW102. ~~Several analyses were reduced to semi-annual monitoring (Q1, Q3) because no cleanup level exceedances have been detected in four consecutive quarters, in accordance with the RAP. The only analytes that have been detected in excess of cleanup levels (within the last four quarters) are dissolved metals within LF5GW101 and LF5SP100. Metals analyses will continue on a quarterly basis within LF5GW101 and LF5SP100. Additionally, it should be noted that a metals exceedance was recently reported within 1349MW03R.~~ ~~Chlorinated herbicides and PCBs are proposed for removal from the Fill Site 5 monitoring program due to a lack of detections, in accordance with the RAP.~~
Fill Site 5	LF5GW101	Q	Low Flow	Hand	2		~~Q1, Q3~~						~~Q (23)~~			~~Q1, Q3~~	~~Q~~	~~Q1, Q3~~	Q1, Q3		~~Q1, Q3~~		~~Q1, Q3~~					~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~		
Fill Site 5	LF5GW102	Q	Modified	Hand	1		~~Q1, Q3~~						~~Q1, Q3 (23)~~			~~Q1, Q3~~	~~Q1, Q3~~		Q1, Q3		~~Q1, Q3~~		~~Q1, Q3~~					~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~		
Fill Site 5	LF5GW103	Q	Modified	Hand	1		~~Q1, Q3~~						~~Q1, Q3 (23)~~			~~Q1, Q3~~	~~Q1, Q3~~		Q1, Q3		~~Q1, Q3~~		~~Q1, Q3~~					~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~		See Attachment 1 for a review of the Post-Remediation Groundwater Monitoring Program conducted to date at Fill Site 5. The post-remediation groundwater monitoring requirements and cleanup levels from the RAP have been met for the required frequency of monitoring for TPH, PAHs, VOCs, PCBs, chlorinated herbicides, general chemistry parameters, TDS, and dissolved metals parameters. The Trust requests cessation of these parameters from the Groundwater Monitoring Program at FS 5 (including 1349MW03R, 1349MW101, and 1349MW102) prior to the Second Quarter 2006. Monitoring of pesticides will continue until the Colma backfill soil sampling has been conducted at Fill Site 5.
Fill Site 5	LF5GW104	Q	Modified	Hand	1		~~Q1, Q3~~						~~Q1, Q3 (23)~~			~~Q1, Q3~~	~~Q1, Q3~~		Q1, Q3		~~Q1, Q3~~		~~Q1, Q3~~					~~Q1, Q3~~	~~Q1, Q3~~	~~Q1, Q3~~		
Fill Site 5	LF5SP100	Q	Surface	Hand	2		~~Q1, Q3~~						~~Q (23)~~	~~Q (23)~~		~~Q1, Q3~~	~~Q~~		Q1, Q3		~~Q1, Q3~~											~~The reduction to semi-annual sampling for VOCs and PAHs within Fill Site 5 monitoring wells (LF5GW100 through LF5GW104) (per the Fill Site 5 RAP) was approved in the Fourth Quarter 2004 because no RAP-specified cleanup levels have been exceeded in at least four quarters for any of these compounds within any Fill Site 5 monitoring well samples.~~

Table 1B
Proposed Sampling Schedule Second Quarter 2006
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

Site Name/ID	Well ID	Sampling Information				Analytical Requirements																								Notes/Comments
		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHo	TPHss	
						1625	various	EPA 9060	EPA 3810/ RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Landfill 4	LF04GW03	Q	Low Flow	Truck	3																											~~See Attachment 1 for a review of the Post-Remediation Groundwater Monitoring program at Landfill 4.~~ Post-remediation groundwater monitoring requirements from the RAP have been met for TPH, PAHs, VOCs, OCPs, and chlorinated herbicides for the required frequency of monitoring and therefore, these analytical compounds ~~will~~ are no longer ~~be~~ included in the Groundwater Monitoring Program at Landfill 4.
Landfill 4	LF4GW100	Q	Low Flow	Truck	1																											
Landfill 4	LF4GW101	Q	Low Flow	Truck	1																											Due to recent cleanup level exceedances of dissolved nickel and Aroclor 1260 and fluctuating concentrations of general chemistry parameters in wells LF4GW103 and/or -104, the Trust will continue to monitor for dissolved metals, PCBs, general chemistry parameters, and TDS as indicated within wells LF4GW103 and -104.
Landfill 4	LF4GW102	Q	Modified	Hand	2																											
Landfill 4	LF4GW103	Q	Modified	Hand	1		Q						Q (14)			Q	Q			Q1, Q3												~~Wells LF4GW100, -101, and -03 are screened in shallower lithologic units and are often dry or have insufficient water to sample. Well LF4GW100 has never had sufficient water to sample. When sampled, cleanup levels have been met in these wells since remediation was conducted in 2003. Therefore, these wells will no longer be scheduled for sampling, however, they will continue to have water levels measured on a quarterly basis.~~
Landfill 4	LF4GW104	Q	Modified	Hand	1		Q						Q (14)			Q	Q			Q1, Q3												
Landfill 4	LF4GW105	Q	Modified	Hand	1																											
Landfill 4	LF4GW106	Q	Modified	Truck	1																											

Table 1B
Proposed Sampling Schedule Second Quarter 2006
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

Site Name/ID	Well ID	Sampling Information				Analytical Requirements																									Notes/Comments
		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V[7]	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHo	TPHss	
						1625	various	EPA 9060	EPA 3810/ RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Comm / PX	600GW101	Q	Low Flow	Truck	3		Q	~~Q~~					Q (14)			Q	Q	Q				Q			Q			Q	Q	Q		PAH and VOC analyses within 600GW108 will be conducted annually in the First Quarter, along with other site wells, because PAHs have never been detected and no significant detections have been reported in the last four sampling events within 600GW108.
Comm / PX	600GW102	Q	Normal	Truck	3		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1		Q1		Q1			Q1	Q1	Q1		
Comm / PX	600GW103	Q	Normal	Truck	3		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1		Q1		Q1			Q1	Q1	Q1		
Comm / PX	600GW104	Q	Normal	Truck	3		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1		Q1		Q1			Q1	Q1	Q1		
Comm / PX	600GW105	Q	Low Flow	Truck	3		Q	~~Q~~					Q (14)			Q	Q	Q			Q1		Q1		Q			Q	Q	Q		
Comm / PX	600GW106	Q	Low Flow	Truck	3		Q	~~Q~~					Q (14)			Q	Q	Q			Q1		Q1		Q			Q	Q	Q		
Comm / PX	600GW107	Q	Modified	Truck	3		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1		Q1		Q1			Q1	Q1	Q1		The Final CAP for the Comm/PX Area was submitted to the regulatory agencies for review in December 2005. Groundwater sampling will continue to be conducted at the Commissary/PX Area as shown until the CAP is implemented. ~~Dissolved gases~~ TOC is proposed for removal from the program for the evaluation of redox conditions, in accordance with recommendations from the Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites (pending). ORP is ~~proposed to be~~ measured for the evaluation of redox conditions, in accordance with recommendations from the Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites (pending).
Comm / PX	600GW108	Q	Low Flow	Hand	3		Q	~~Q~~					Q (14)			Q	Q	Q			Q1		Q1		Q			Q	Q	Q		
Comm / PX	600GW109	Q	Normal	Hand	3		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1		Q1		Q1			Q1	Q1	Q1		
Comm / PX	610GW101	Q	Low Flow	Truck	1		Q	~~Q~~					Q (14)			Q	Q	Q				Q			Q			Q	Q	Q		
Comm / PX	610GW102	Q	Low Flow	Truck	2		Q	~~Q~~					Q (14)			Q	Q	Q				Q			Q			Q	Q	Q		
Comm / PX	610GW103	Q	Low Flow	Truck	3		Q	~~Q~~					Q (14)			Q	Q	Q				Q			Q			Q	Q	Q		
Comm / PX	610SP01	Q	Surface	Hand	3		Q	~~Q~~					Q (14)	Q (14)		Q	Q	Q				Q			Q			Q	Q	Q		
Comm / PX	610SP02	Q	Surface	Hand	3		Q	~~Q~~					Q (14)	Q (14)		Q	Q	Q				Q			Q			Q	Q	Q		
Landfill E	DAEGW03	Q	Normal	Hand	1		Q1						Q1 (22)			Q1	Q1		Q1	Q1	Q1		Q1					Q1	Q1	Q1		A focused feasibility study has been prepared for Landfill E. The reduction to annual sampling at Landfill E monitoring wells (DAEGW101 through DAEGW104) until the Landfill E RAP has been implemented has been approved. The proposed sampling frequency at Landfill E seep (DAESP03) has been increased to quarterly beginning with the First Quarter 2006 to assess seasonal and variable conditions.
Landfill E	DAEGW04	Q	Normal	Hand	2		Q1						Q1 (22)			Q1	Q1				Q1		Q1						Q1	Q1		
Landfill E	DAEGW05	Q	Normal	Hand	1		Q1						Q1 (22)			Q1	Q1		Q1	Q1	Q1		Q1					Q1	Q1	Q1		
Landfill E	DAEGW06	Q	Modified	Hand	1		Q1						Q1 (22)			Q1	Q1				Q1		Q1						Q1	Q1		
Landfill E	DAEGW07	Q	Low Flow	Hand	3		Q1						Q1 (22)			Q1	Q1	Q1	Q1	Q1	Q1		Q1	Q1				Q1	Q1	Q1		
Landfill E	DAEGW08	Q	Normal	Hand	1		Q1						Q1 (22)			Q1	Q1		Q1	Q1	Q1		Q1					Q1	Q1	Q1		
Landfill E	DAESP03	Q	Surface	Hand	1		Q			Q	Q	Q	Q (23)	Q (23)		Q	Q		Q	Q	Q		Q			Q		Q	Q	Q		
Landfill E	DAEGW101	Q	Modified	Hand	1		Q1			Q1	Q1	Q1	Q1 (23)			Q1	Q1		Q1	Q1	Q1		Q1					Q1	Q1	Q1		
Landfill E	DAEGW102	Q	Modified	Hand	2		Q1			Q1	Q1	Q1	Q1 (23)			Q1	Q1		Q1	Q1	Q1		Q1					Q1	Q1	Q1		
Landfill E	DAEGW103	Q	Normal	Truck	2		Q1			Q1	Q1	Q1	Q1 (23)			Q1	Q1		Q1	Q1	Q1		Q1					Q1	Q1	Q1		
Landfill E	DAEGW104	Q	Modified	Hand	1		Q1			Q1	Q1	Q1	Q1 (23)			Q1	Q1		Q1	Q1	Q1		Q1					Q1	Q1	Q1		
Landfill E	DAEPZ101	Q	EM	Hand	--																										
Landfill E	DAEPZ102	Q	EM	Hand	--																										

Table 1B
Proposed Sampling Schedule Second Quarter 2006
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

Site Name/ID	Well ID	Sampling Information				Analytical Requirements																								Notes/Comments
		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHo	TPHss	
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Nike Facility	NKGW01	Q	Modified	Truck	2	Q1, Q3							Q1 (23)			Q1	Q1, Q3				Q1					Q1		Q1	Q1	Q1		No changes to the Nike Missile Facility monitoring program are currently proposed.
Nike Facility	NKGW02	Q	Modified	Truck	1	Q1, Q3							Q1 (23)			Q1	Q1, Q3				Q1					Q1		Q1	Q1	Q1		
Nike Facility	NKGW03	Q	Low Flow	Truck	1	Q1, Q3							Q1 (23)			Q1	Q1, Q3	Q1, Q3			Q1					Q1		Q1	Q1	Q1		
Nike Facility	NKGW04	Q	Modified	Truck	3	Q1, Q3							Q1 (23)			Q1	Q1, Q3				Q1					Q1		Q1	Q1	Q1		
Nike Facility	NKGW05	Q	Modified	Truck	2	Q1, Q3							Q1 (23)			Q1	Q1, Q3				Q1					Q1		Q1	Q1	Q1		
Baker Beach Disturbed Areas 1 and 2A	**BB1PZ100**	**Q**	**Modified**	**Hand**	**2**		**Q**						**Q (23)**	**Q (23)**					**Q**				**Q**						**Q**	**Q**		Monitoring will be completed within these piezometers and seep to establish baseline conditions in order to evaluate how construction operations will affect groundwater quality.
Baker Beach Disturbed Areas 1 and 2A	**BB1PZ101**	**Q**	**Modified**	**Hand**	**1**		**Q**						**Q (23)**	**Q (23)**					**Q**				**Q**						**Q**	**Q**		
Baker Beach Disturbed Areas 1 and 2A	**BB2ASW100**	**Q**	**Modified**	**Hand**	**1**		**Q**						**Q (23)**	**Q (23)**					**Q**				**Q**						**Q**	**Q**		
Baker Beach Disturbed Area 3	BB3GW100	Q	Modified	Hand	1		Q						Q (22)			Q	Q											Q	Q	Q		Groundwater analyses are conducted in general accordance with the Baker Beach Disturbed Area 3 RAP. Fixed monitoring points BB3SW100 through BB3SW102 are sampled using a disposable bailer and are purged prior to sampling, in accordance with the modified method of purging.
Baker Beach Disturbed Area 3	BB3GW101	Q	Modified	Hand	1		Q						Q (22)			Q	Q											Q	Q	Q		
Baker Beach Disturbed Area 3	BB3PZ101	Q	Modified	Hand	1		Q						Q (22)			Q	Q											Q	Q	Q		In accordance with the RAP, TPH analyses ~~are proposed for reduction~~ were reduced to semi-annual sampling at BB3SW101 and BB3SW102, as no TPH detections have occurred for four quarterly events. For metals, chromium exceeded the cleanup level during the Fourth Quarter 2005 at BB3SW102; thus, all seeps will continue to be analyzed on a quarterly basis for metals and general chemistry parameters. At BB3GW101, BB3PZ101, and BB3SW100, no detections have occurred above cleanup levels over one or two events; sampling of these wells will continue on a quarterly basis until sufficient data have been collected. At BB3GW100, no TPH detections have occurred and metals have not been detected above cleanup levels. Per the RAP, monitoring at BB3GW100 could be reduced to a semi-annual basis, however, quarterly sampling of this well will continue for evaluation of upgradient conditions.
Baker Beach Disturbed Area 3	BB3PZ102	Q	Modified	Hand	1		Q						Q (22)	Q (22)		Q	Q											Q	Q	Q		
Baker Beach Disturbed Area 3	BB3SW100	Q	Modified	Hand	1		Q						Q (22)	Q (22)		Q	Q											Q	Q	Q		
Baker Beach Disturbed Area 3	BB3SW101	Q	Modified	Hand	1		Q						Q (22)	Q (22)		Q	Q											Q1, Q3	Q1, Q3	Q1, Q3		
Baker Beach Disturbed Area 3	BB3SW102	Q	Modified	Hand	1		Q						Q (22)	Q (22)		Q	Q											Q1, Q3	Q1, Q3	Q1, Q3		At the request of the DTSC, piezometer BB3PZ102 and surface water location BB3SW104 were added to the groundwater monitoring program prior to the First Quarter 2006 to evaluate downgradient and surface water dissolved and total metal concentrations.
Baker Beach Disturbed Area 3	BB3SW104	Q	Surface	Hand	1		Q						Q (22)	Q (22)		Q	Q											Q	Q	Q		

Table 1B
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Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

Site Name/ID	Well ID	Sampling Information				Analytical Requirements																									Notes/Comments
		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHfo	TPHss	
						1625	various	EPA 9060	EPA 3810/ RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Battery Howe/Wagner	BHWGW01	Q	Low Flow	Truck	3		Q~~1~~						Q (22)~~1 (3)~~				Q1	Q1			Q1											Dissolved metals and general chemistry parameters are proposed for quarterly analysis within all Battery Howe/Wagner wells for comparison with data from the new upgradient wells (Mini-CAP Area wells 1213GW101 and 1221GW104).
Battery Howe/Wagner	BHWGW04	Q	Low Flow	Truck	1		Q~~1~~						Q (22)~~1 (3)~~				Q1	Q1			Q1											
Battery Howe/Wagner	BHWGW05	Q	Low Flow	Truck	2		Q~~1~~						Q (22)~~1 (3)~~				Q1	Q1			Q1											
Battery Howe/Wagner	HWGW100	Q	Low Flow	Truck	1		Q~~1~~						Q (22)~~1 (3)~~				Q1	Q1			Q1											
Battery Howe/Wagner	HWGW101	Q	Low Flow	Truck	1		Q~~1~~						Q (22)~~1 (3)~~				Q1	Q1			Q1											
Battery Howe/Wagner	HWGW102	Q	Low Flow	Truck	1		Q~~1~~						Q (22)~~1 (3)~~				Q1	Q1			Q1											
Fill Site 6B	LF6GW100	Q	Modified	Truck	1		Q1	~~Q1~~					Q1 (23)			Q1	Q1	Q1	Q1	Q1			Q1		Q1			Q1	Q1			A decision document for Fill Site 6B is currently being prepared. The reduction in sampling frequency for Fill Site 6B wells to annual was approved by the stakeholders prior to First Quarter 2004. The Fill Site 6A RAP is currently being implemented. Fill Site 6A monitoring well LF6GW103 will continue to be sampled in order to provide upgradient groundwater data for the Building 1065 Area. Fill Site 6A wells are sampled in accordance with the RAP.
Fill Site 6B	LF6GW101	Q	Modified	Truck	1		Q1	~~Q1~~					Q1 (23)			Q1	Q1	Q1	Q1	Q1			Q1		Q1			Q1	Q1			
Fill Site 6A	LF6GW103	Q	Modified	Truck	1		Q	~~Q1~~					Q (23)			Q	Q	Q	Q	Q			Q		Q1			Q	Q			
Fill Site 6A	LF6GW104	Q	Modified	Hand	TBD		Q	~~Q1~~					Q (23)			Q	Q	Q					Q		Q1				Q	Q		
Fill Site 6A	LF6GW105	Q	Modified	Hand	TBD		Q	~~Q1~~					Q (23)			Q	Q	Q							Q1							
Fill Site 6A	LF6GW106	Q	Modified	Hand	TBD		Q	~~Q1~~					Q (23)			Q	Q	Q					Q		Q1				Q	Q		
Fill Site 6A	LF6PZ101	Q	EM	Hand	TBD																											~~Additionally,~~ TPHd, TPHfo and PAHs are sampled at monitoring wells LF6GW104 and LF6GW106 to assess impacts from the nearby FDS lines.
Fill Site 6A	LF6PZ102	Q	EM	Hand	TBD																											
Fill Site 6A	LF6PZ103	Q	EM	Hand	TBD																											
Fill Site 6A	LF6PZ104	Q	EM	Hand	TBD																											~~Dissolved gases are~~ TOC is proposed for removal from the program for the evaluation of redox conditions, in accordance with recommendations from the Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites (pending). ORP is ~~proposed to be~~ measured for the evaluation of redox conditions, in accordance with recommendations from the Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites (pending).
Fill Site 6A	LF6PZ105	Q	EM	Hand	TBD																											
Fill Site 6A	LF6PZ106	Q	EM	Hand	TBD																											

Table 1B
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Site Name/ID	Well ID	Sampling Information				Analytical Requirements																								Notes/Comments
		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V[7]	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHo	TPHss	
						1625	various	EPA 9060	EPA 3810/ RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Bldg 1065	1065PZ1A	Q	Low Flow	Truck	4		Q	~~Q~~					Q (15)			Q	Q	Q			Q				Q			Q	Q	Q		A Draft CAP for the Building 1065 Area has been submitted to the regulatory agencies for review. Building 1065 monitoring wells and piezometers will continue to be sampled as shown-until implementation of the Building 1065 CAP, after which sampling will be in accordance with CAP requirements. Dissolved antimony was also added to the metals list to evaluate recent detections during the Building 1065 investigation.
Bldg 1065	1065PZ1B	Q	Normal	Truck	1		Q						Q (15)			Q	Q	Q			Q				Q			Q	Q	Q		
Bldg 1065	1065PZ2A	Q	Low Flow	Truck	3		Q	~~Q~~					Q (15)			Q	Q	Q				Q			Q			Q	Q	Q		
Bldg 1065	1065PZ2B	Q	Normal	Truck	1		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ3A	Q	Low Flow	Truck	2		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ3B	Q	Normal	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ4A	Q	Low Flow	Truck	3		Q	~~Q~~					Q (15)			Q	Q	Q				Q			Q			Q	Q	Q		
Bldg 1065	1065PZ4B	Q	Modified	Truck	1		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ5AR	Q	Normal	Truck	3		Q	~~Q~~					Q (15)			Q	Q	Q				Q			Q			Q	Q	Q		
Bldg 1065	1065PZ5B	Q	Modified	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ6A	Q	Modified	Truck	4		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ6B	Q	Normal	Truck	1		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ7A	Q	Modified	Truck	1		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065PZ7B	Q	Modified	Truck	1		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065MW9A	Q	Normal	Truck	3		Q	~~Q~~					Q (15)			Q	Q	Q				Q			Q			Q	Q	Q		
Bldg 1065	1065MW9B	Q	Normal	Truck	3		Q						Q (15)			Q	Q	Q				Q			Q			Q	Q	Q		
Bldg 1065	1065MW10A	Q	Normal	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065MW10B	Q	Normal	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065MW11A	Q	Normal	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		~~Dissolved gases are~~ TOC is proposed for removal from the program for the evaluation of redox conditions, in accordance with recommendations from the Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites (pending). ORP is ~~proposed to be~~ measured for the evaluation of redox conditions, in accordance with recommendations from the Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites (pending).
Bldg 1065	1065MW11B	Q	Normal	Truck	3		Q1						Q1 (15)			Q1	Q1	Q1				Q1			Q1			Q1	Q1	Q1		
Bldg 1065	1065MW101	Q	Low Flow	Truck	3		Q	~~Q~~					Q (15)			Q	Q	Q			Q				Q			Q	Q	Q		
Bldg 1065	1065MW102	Q	Low Flow	Truck	3		Q	~~Q~~					Q (15)			Q	Q	Q			Q				Q			Q	Q	Q		
Bldg 1065	1047MW101	Q	Normal	Truck	1		Q1						Q1 (15)			Q1	Q1	Q1			Q				Q1			Q			Q[10]	

Table 1B
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Presidio-wide Groundwater Monitoring Project
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Site Name/ID	Well ID	Sampling Information				Analytical Requirements																								Notes/Comments
		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHo	TPHss	
						1625	various	EPA 9060	EPA 3810/ RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Bldg 207/231	207GW03	Q	Normal	Truck	2		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		The Building 207/231 Area CAP has been submitted to the stakeholders. The reduction in sampling frequency to annual (during First Quarter, except monitoring well 231GW09) for all wells until the CAP is implemented has been approved. Monitoring wells 231GW09, 231GW10, 231GW13, 231GW20, 231GW21, 231GW22, 231GW26, 231PZ01, and 231PZ04 will be sampled at least two months prior to the Building 231/207 Area remedial action in order to establish a baseline of pre-construction TPH and arsenic data (currently anticipated to be during the Third Quarter 2006), which is scheduled to begin in December 2006, in accordance with the Building 207/231 CAP.
Bldg 207/231	231GW06	Q	Normal	Truck	1		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231 (Fill Site 6A)	231GW09	Q	Modified	Truck	1		Q	~~Q~~					Q (23)			Q	Q	Q			Q				Q			Q	Q	Q		
Bldg 207/231	231GW10	Q	Low Flow	Truck	2		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW11	Q	Modified	Truck	1		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW13	Q	Normal	Truck	1		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW15	Q	Normal	Truck	1		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW16	Q	Low Flow	Truck	3		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW17	Q	Normal	Truck	2		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW18	Q	Normal	Truck	2		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW19	Q	Normal	Truck	1		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW20	Q	Normal	Truck	2		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		Sampling will be performed per the CAP following the remedial action. Sampling of monitoring well 231GW09 will continue to provide upgradient data for Fill Site 6A. Following the remedial action, five new monitoring wells and three existing monitoring wells (231GW09, 231GW11, and 231GW25) will be sampled in accordance with the CAP monitoring plan.
Bldg 207/231	231GW21	Q	Low Flow	Truck	4		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW22	Q	Low Flow	Truck	4		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW23	Q	Modified	Truck	2		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW24	Q	Normal	Truck	1		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW25	Q	Modified	Truck	2		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW26	Q	Normal	Truck	2		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		~~Dissolved gases are~~ ~~TOC~~ is proposed for removal from the program for the evaluation of redox conditions, in accordance with recommendations from the Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites (pending). ORP is ~~proposed to be~~ measured for the evaluation of redox conditions, in accordance with recommendations from the Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites (pending).
Bldg 207/231	231GW27	Q	Normal	Truck	2		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW28	Q	Modified	Truck	2		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW29	Q	Normal	Truck	2		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231GW30	Q	Low Flow	Truck	3		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231PZ01	Q	Low Flow	Truck	4		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231PZ02	Q	Low Flow	Truck	4		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231PZ03	Q	Low Flow	Truck	4		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	231PZ04	Q	Low Flow	Truck	4		Q1	~~Q1~~					Q1 (14)			Q1	Q1	Q1			Q1				Q1			Q1	Q1	Q1		
Bldg 207/231	OW-1	Q	EM	Truck																												
Bldg 1027/1065	1027MW01	Q	EM	Truck																												
Bldg 1027/1065	1027MW03	Q	EM	Truck																												

Table 1B
Proposed Sampling Schedule Second Quarter 2006
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

Site Name/ID	Well ID	Sampling Information				Analytical Requirements																								Notes/Comments
		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHo	TPHss	
						1625	various	EPA 9060	EPA 3810 / RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	
Mini-CAP Areas	FM14EX07GW102	Q	Normal	Truck	1												Q					Q	~~*Q1~~					Q	Q	Q		
Mini-CAP Areas	FM14EX07GW101	Q	Normal	Truck	1												Q					Q	~~*Q1~~					Q	Q	Q		VOCs were detected within 1213GW101 during the First Quarter 2006, therefore, VOC analyses will continue on a quarterly basis within this well. Additionally, since BTEX/MTBE is included in the VOC list, this analyses has been removed. The PAH, fluoranthene, was detected within FM14EX07GW102 and 514AGW101 during the First Quarter 2006 and therefore, PAH analyses are scheduled to be conducted quarterly within wells with detections (FM14EX07GW101, FM14EX07GW102, 1213GW101, and 514AGW101). TPH compounds will continue to be analyzed within wells with detections (FM14EX07GW101, FM14EX07GW102, 1213GW101, and 514AGW101) to establish a baseline of data.
Mini-CAP Areas	1260GW102	Q	Normal	Truck	1												~~Q~~					~~Q~~	~~*Q1~~					~~Q~~	~~Q~~	~~Q~~		
Mini-CAP Areas	1260GW103	Q	Normal	Truck	1												~~Q~~					~~Q~~	~~*Q1~~					~~Q~~	~~Q~~	~~Q~~		
Mini-CAP Areas	1260GW101	Q	Normal	Truck	1												~~Q~~					~~Q~~	~~*Q1~~					~~Q~~	~~Q~~	~~Q~~		
Mini-CAP Areas	1213GW101	Q	Normal	Truck	3		Q						Q (22)				Q				~~*Q1~~	~~Q~~	~~*Q1~~					Q	Q	Q		
Mini-CAP Areas	1221GW103	Q	Normal	Truck	1												~~Q~~					~~Q~~	~~*Q1~~					~~Q~~	~~Q~~	~~Q~~		
Mini-CAP Areas	1221GW102	Q	Normal	Truck	2												~~Q~~					~~Q~~	~~*Q1~~					~~Q~~	~~Q~~	~~Q~~		
Mini-CAP Areas	1221GW104	Q	Normal	Truck	1		Q						Q (22)				~~Q~~					~~Q~~	~~*Q1~~					~~Q~~	~~Q~~	~~Q~~		Quarterly analysis of dissolved metals and general chemistry parameters are proposed for wells 1213GW101 and 1221GW104 to evaluate conditions upgradient of Battery Howe/Wagner. ~~One round of confirmation sampling for PAHs is proposed at all mini-CAP wells to confirm previous sampling where PAH laboratory reporting limits were greater than cleanup levels. One round of confirmation sampling for VOCs is proposed at 1213GW101 to confirm the presence of VOCs. Groundwater sampling is no longer proposed within wells 1260GW101 through 1260GW103 and 1221GW101 through 1221GW104 because no analytes were detected above applicable cleanup levels, in accordance with the Mini-CAPs Work Plan.~~
Mini-CAP Areas	1221GW101	Q	Normal	Truck	1												~~Q~~					~~Q~~	~~*Q1~~					~~Q~~	~~Q~~	~~Q~~		
Mini-CAP Areas	514AGW101	Q	Normal	Truck	1												Q					Q	~~*Q1~~					Q	Q	Q		
Upgradient	UBR01GW01	Q	EM	Truck																												
Upgradient	UBR02GW01	Q	EM	Truck																												
Upgradient	UBR02GW02	Q	EM	Truck																												
Upgradient	UBR03GW01	Q	EM	Truck																												
Upgradient	UBR03GW02	Q	EM	Truck																												
Tennessee Hollow	TH-1	Q	EM	Hand																												
Tennessee Hollow	TH-2	Q	EM	Truck																												
Tennessee Hollow	TH-3	Q	EM	Truck																												
Tennessee Hollow	TH-4	Q	EM	Hand																												
Tennessee Hollow	PGFGW100	Q	EM	Truck																												
Tennessee Hollow	10GW100	Q	EM	Truck																												
Landfill 10	LF10GW01	Q	Modified	Hand	1		Q1						Q1 (23)			Q1	Q1					Q1						Q	Q	Q		A Focused Feasibility Study (FFS) for Landfills 8 and 10 has been prepared. The Trust is preparing a RAP for the two landfill sites, which is anticipated to be distributed to stakeholders in 2007~~.~~. LF10GW02 and LF10SP01 could not be sampled during Q1 2006 due to thick vegetation. Samples will be collected at these locations during Q2 2006 if the brush can be cleared. TPH analyses have been increased from an annual to quarterly basis in all Landfill 10 wells and seep due to recent detections in groundwater at Landfill 10. The TPH data will be evaluated in the RAP. ~~The sampling will continue as shown until the RAP is implemented.~~
Landfill 10	LF10GW02	Q	Normal	Hand	1		~~Q1~~2*						~~Q1~~2* (23)			~~Q1~~2*	~~Q1~~2*					~~Q1~~2*						Q	Q	Q		
Landfill 10	LF10GW03	Q	Modified	Hand	2		Q1						Q1 (23)			Q1	Q1					Q1						Q	Q	Q		
Landfill 10	LF10GW100	Q	Normal	Truck	2		Q1						Q1 (23)			Q1	Q1					Q1						~~Q1~~	~~Q1~~	~~Q1~~		
Landfill 10	LF10SP01	Q	Surface	Hand	2		~~Q1~~2*						~~Q1~~2* (23)	~~Q1~~2* (23)		~~Q1~~2*	~~Q1~~2*					~~Q1~~2*						~~Q1~~	~~Q1~~	~~Q1~~		

Table 1B
Proposed Sampling Schedule Second Quarter 2006
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

Site Name/ID	Well ID	Sampling Information				Analytical Requirements																							Notes/Comments
		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases[4]	MBAS	Total Hardness	Molybdenum (from metals container)	Dissolved Metals[5,6]	Total Metals[5,6] (Not Filtered)	Arsenic III and Arsenic V	Total Dissolved Solids	Dissolved Oxygen[7]	ORP[8]	Organochlorine Pesticides	PCBs	VOCs MTBE	BTEX MTBE	PAHs	SVOCs	Total Sulfide[9]	Cyanide	Chlorinated Herbicides	TPHg	TPHd	TPHfo	TPHss	
						1625	various	EPA 9060	EPA 3810/ RSK 175	E425.1		ICP/MS	EPA 6010/6020	EPA 6010/6020	ICP/MS	EPA 160.1	(field probe)	(field probe)	EPA 8081	EPA 8082	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015	

Notes
1 - Normal, Low Flow, Modified, and Surface water sampling techniques. A description of sampling techniques can be found in the *Field Sampling Plan, Presidio Groundwater Monitoring Project* (Treadwell & Rollo, 2001a).
2 - Truck - Well accessible by truck
LIV - Low Impact Vehicle - Well accessible by LIV or hand truck only
Hand - Well accessible by hand truck only
3 - Sampling Order: At each site sample the wells with the lowest number first. For example, sample the number 1 wells first, the number 2 wells second etc. The following key explains the numbering system.
1 - Wells without significant detections of chemicals of concern
2 - Wells with occasional detections of low concentrations chemicals of concern
3 - Wells with consistent or recent detections of low concentrations chemicals of concern
4 - Wells with high concentrations of chemicals of concern
5 - Wells with very high concentrations of chemicals of concern. Potential for free phase product.
4 - Dissolved gases include methane, ethane, and ethene.
5 - Beginning with Second Quarter 2003, variance was granted from QAPP specified reporting limit requirements for seven metals.
6 - The table has been reformatted to one dissolved metals column. The number of dissolved metals proposed for analysis are denoted by parentheses. For example, Q (23) indicates the 23 metals list should be analyzed on a quarterly basis. The metals associated with each metals list are detailed below.
23 Metals List - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn.
22 Metals List - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn.
15 Metals List - Al, Sb, As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Pb, Ni and Zn.
14 Metals List - Al, As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Pb, Ni and Zn.
9 Metals List - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn.
8 Metals List - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn.
7 Metals List - As, Cr, Cd, Cu, Pb, Ni and Zn.
3 Metals List - Al, Fe, and Cr.
7 - Dissolved Oxygen (DO) concentration will be included in field sampling logs. DO values should be recorded immediately before sample collection.
8 - Oxidation-Reduction Potential (ORP) is measured within all wells proposed to be sampled using the low flow method using a flow through cell. For specified wells identified to be sampled by either the normal or modified methods and proposed for ORP measurements, ORP will be measured using a down-hole meter.
9 - Total sulfides are analyzed by the laboratory for all samples collected at the Presidio.
10 - Stoddard Solvent is a specialized formulation of gasoline. Laboratory quantification for Stoddard Solvent is achieved by comparing the shape of the analytical chromatogram within the same carbon range as TPHg for a diagnostic combination of spikes. Since TPHg is also proposed for analysis in this well, the comparison between this well and other sites which may be or have been evaluated for Stoddard Solvent will be maintained. Stoddard Solvent has been specified for this well per MACTEC request. MACTEC will evaluate the Stoddard Solvent data as part of their Building 1047 investigation.

Bold red text indicates proposed changes for the Second Quarter 2006.
All surface seeps where metals analysis is proposed will have two samples collected; one will be filtered and analyzed for dissolved metals and another one will not be filtered and analyzed for total metals.
EM - Elevation Monitoring only
Surface - Surface Water Sampling per Standard Operating Procedure
Trust - the Presidio Trust will evaluate seep BB3SP01 for flow on a quarterly basis and will inform the sampling crew if a sample can be collected.
Q1, Q3, etc. - Sample during specified quarters only
Q - Sample during all quarters unless otherwise directed
~~*Q1 - Sample during Q1 2006 only~~
Q2* - Annual sampling has been moved to the Second Quarter because samples could not be collected during Q1 2006. Samples will be collected during Q2 2006, if possible.
TPHg, TPHd, TPHfo, TPHss: Total Petroleum Hydrocarbons as gasoline, diesel, fuel oil, and stoddard solvent - EPA 3630A: Silica Gel Cleanup Step
General Chemistry Parameters; Alkalinity (total), bicarbonate, carbonate, chloride, fluoride, nitrate+nitrite (as N), sulfate
NDMA - N-nitrosodimethylamine
TBD - To Be Determined

Table 2A
Groundwater Elevation Summary for Presidio Monitoring Wells
Elevations Collected on 6 March 2006
Presidio of San Francisco, California

Site	Well ID	Time	Average Depth to Water [1] (feet)	Top of Casing Elevation [2] (feet PLLW)	Groundwater Elevation [2] (feet PLLW)	Well Type	Water Level Frequency
Building 900s Area	937GW06	13:50	4.53	11.05	6.52	MW	Q
Building 900s Area	937GW07	12:52	7.62	13.94	6.32	MW	Q
Building 900s Area	937GW12	12:41	2.30	10.34	8.04	MW	Q
Building 900s Area	937GW15	12:45	6.06	12.90	6.84	MW	Q
Building 900s Area	937GW32R	14:00	4.45	10.60	6.15	MW	Q
Building 900s Area	937GW35	13:10	5.04	11.64	6.60	MW	Q
Building 900s Area	937GW37	12:49	5.93	12.74	6.81	MW	Q
Building 900s Area	937GW38	12:39	4.00	10.23	6.23	MW	Q
Building 900s Area	937GW39	13:16	6.88	12.49	5.61	MW	Q
Building 900s Area	937GW42	13:45	4.90	10.62	5.72	MW	Q
Building 900s Area	937GW101	12:55	5.33	11.81	6.48	MW	Q
Building 900s Area	937GW102	13:00	5.43	11.69	6.26	MW	Q
Building 900s Area	937GW103	13:04	5.50	11.56	6.06	MW	Q
Building 900s Area	937GW104	13:18	4.55	11.52	6.97	MW	Q
Building 900s Area	937GW105	13:21	6.21	11.50	5.29	MW	Q
Building 900s Area	937GW106	12:37	8.53	15.20	6.67	MW	Q
Building 900s Area	937GW107	12:34	10.08	15.11	5.03	MW	Q
Building 900s Area	937GW108	12:35	4.07	12.11	8.04	MW	Q
Building 900s Area	950GW108	13:13	6.78	11.60	4.82	MW	Q
Building 900s Area	979GW109	13:03	5.39	10.62	5.23	MW	Q
Building 900s Area	979GW110	13:05	6.50	10.62	4.12	MW	Q
Building 900s Area	979GW111R	12:43	14.68	19.69	5.01	MW	Q
Building 900s Area	979GW112	12:40	14.73	19.72	4.99	MW	Q
Building 900s Area	979GW113	12:57	6.10	10.41	4.31	MW	Q
Building 900s Area	979GW114	12:59	6.34	10.53	4.19	MW	Q
Building 900s Area	979GW115	12:53	7.45	12.26	4.81	MW	Q
Building 900s Area	979GW116	12:50	7.40	12.19	4.79	MW	Q
Building 900s Area	979GW117	12:47	7.96	12.17	4.21	MW	Q
Landfill 8	LF08GW01	10:04	15.34	234.54	219.20	MW	Q
Landfill 8	LF08GW02B	10:20	49.58	225.27	175.69	MW	Q
Landfill 8	LF08GW03	10:16	35.32	230.41	195.09	MW	Q
Landfill 8	LF08GW04	10:24	31.09	234.70	203.61	MW	Q
Landfill 8	LF08GW06	10:10	15.12	234.31	219.19	MW	Q
Landfill 8	LF08PZ01	9:56	9.22	234.34	225.12	PZ	Q
Landfill 8	LF08PZ02	9:50	23.29	234.62	211.33	PZ	Q
Fill Site 1	LF01GW01	16:02	3.17	105.31	102.14	MW	Q
Fill Site 1	LF01GW02	16:00	26.00	98.98	72.98	MW	Q
Fill Site 1	LF01GW03	14:48	48.20	151.82	103.62	MW	Q
Fill Site 1	LF01GW04	14:42	55.18	159.39	104.21	MW	Q
Fill Site 1	LF01GW05	15:55	8.82	83.72	74.90	MW	Q
Fill Site 1	LF01GW06	15:00	50.80	145.23	94.43	MW	Q
Fill Site 1	LF01GW07	14:45	55.74	162.00	106.26	MW	Q
El Polin Spring	EPSP01 [3]	14:35	Flowing	NM	NM	Seep	Q
Landfill 2	LF02GW01	16:10	2.80	98.57	95.77	MW	Q
Landfill 2	LF02GW02	16:05	1.31	101.99	100.68	MW	Q
Landfill 2	LF02GW04	14:10	14.78	172.60	157.82	MW	Q
Tennessee Hollow	10GW100	9:18	43.49	76.88	33.39	MW	Q
Tennessee Hollow	PGFGW100	15:30	37.23	133.71	96.48	MW	Q
Tennessee Hollow	TH-1	15:38	15.47	80.76	65.29	MW	Q
Tennessee Hollow	TH-2	15:42	55.06	111.26	56.20	MW	Q
Tennessee Hollow	TH-3	16:00	9.67	64.68	55.01	MW	Q
Tennessee Hollow	TH-4	16:22	0.56	44.59	44.03	MW	Q

Table 2A
Groundwater Elevation Summary for Presidio Monitoring Wells
Elevations Collected on 6 March 2006
Presidio of San Francisco, California

Site	Well ID	Time	Average Depth to Water [1] (feet)	Top of Casing Elevation [2] (feet PLLW)	Groundwater Elevation [2] (feet PLLW)	Well Type	Water Level Frequency
Upgradient	UBR01GW01[4]	--	NM	164.71	NM	MW	Q
Upgradient	UBR02GW01	14:19	8.80	253.39	244.59	MW	Q
Upgradient	UBR02GW02	14:21	9.00	253.56	244.56	MW	Q
Upgradient	UBR03GW01	14:34	33.51	171.22	137.71	MW	Q
Upgradient	UBR03GW02	14:32	15.28	170.96	155.68	MW	Q
Building 1349	1349MW01	10:41	23.25	300.44	277.19	MW	Q
Building 1349	1349MW02	10:52	27.87	311.22	283.35	MW	Q
Building 1349	1349MW03R	10:08	22.56	304.13	281.57	MW	Q
Building 1349	1349MW100	10:58	25.73	309.60	283.87	MW	Q
Building 1349	1349MW101	10:23	24.59	311.63	287.04	MW	Q
Building 1349	1349MW102	10:36	19.66	305.68	286.02	MW	Q
Building 1349	1349MW103	10:49	32.97	318.07	285.10	MW	Q
Building 1349	1349MW104	10:44	29.33	314.58	285.25	MW	Q
Building 1349	1349MW105	10:47	27.94	312.05	284.11	MW	Q
Fill Site 5	LF5GW100	9:55	6.27	229.74	223.47	MW	Q
Fill Site 5	LF5GW101	9:52	4.59	234.36	229.77	MW	Q
Fill Site 5	LF5GW102	10:21	27.57	294.76	267.19	MW	Q
Fill Site 5	LF5GW103	10:20	8.49	279.12	270.63	MW	Q
Fill Site 5	LF5GW104	10:18	16.52	286.05	269.53	MW	Q
Fill Site 5	LF5SP100 [3]	9:50	Flowing	NM	NM	Seep	Q
Landfill E	DAEGW03	14:35	55.38	107.48	52.10	MW	Q
Landfill E	DAEGW04	16:08	43.54	94.38	50.84	MW	Q
Landfill E	DAEGW05	14:50	54.00	105.65	51.65	MW	Q
Landfill E	DAEGW06	14:12	11.71	119.26	107.55	MW	Q
Landfill E	DAEGW07	16:00	1.75	75.66	73.91	MW	Q
Landfill E	DAEGW08	16:03	20.34	71.66	51.32	MW	Q
Landfill E	DAEGW101	14:47	34.42	107.09	72.67	MW	Q
Landfill E	DAEGW102	14:09	17.01	116.72	99.71	MW	Q
Landfill E	DAEGW103	14:30	29.43	111.73	82.30	MW	Q
Landfill E	DAEGW104	14:15	18.83	120.28	101.45	MW	Q
Landfill E	DAEPZ101	14:25	22.14	113.83	91.69	PZ	Q
Landfill E	DAEPZ102	14:41	28.30	110.09	81.79	PZ	Q
Landfill E	DAESP03 [3]	14:53	Flowing	NM	NM	Seep	Q
Nike Facility	NKGW01	10:46	26.80	278.38	251.58	MW	Q
Nike Facility	NKGW02	11:04	10.02	312.00	301.98	MW	Q
Nike Facility	NKGW03	11:10	13.85	334.60	320.75	MW	Q
Nike Facility	NKGW04	12:06	5.97	299.60	293.63	MW	Q
Nike Facility	NKGW05	10:40	20.23	284.20	263.97	MW	Q
Battery H-W	BHWGW01	14:36	15.19	178.04	162.85	MW	Q
Battery H-W	BHWGW04	14:20	12.88	197.73	184.85	MW	Q
Battery H-W	BHWGW05	14:25	27.58	202.95	175.37	MW	Q
Battery H-W	HWGW100	12:30	22.83	209.68	186.85	MW	Q
Battery H-W	HWGW101	14:05	24.40	214.24	189.84	MW	Q
Battery H-W	HWGW102	14:45	Dry	211.44	174.44 [5]	MW	Q
Comm/PX	600GW101	12:51	3.25	10.66	7.41	MW	Q
Comm/PX	600GW102	12:56	3.14	10.10	6.96	MW	Q
Comm/PX	600GW103	13:01	2.46	10.31	7.85	MW	Q
Comm/PX	600GW104	13:05	2.24	10.48	8.24	MW	Q
Comm/PX	600GW105	13:08	3.48	17.64	14.16	MW	Q
Comm/PX	600GW106	13:14	3.34	16.04	12.70	MW	Q
Comm/PX	600GW107	13:18	3.29	16.76	13.47	MW	Q
Comm/PX	600GW108	13:25	3.46	12.29	8.83	MW	Q

Table 2A
Groundwater Elevation Summary for Presidio Monitoring Wells
Elevations Collected on 6 March 2006
Presidio of San Francisco, California

Site	Well ID	Time	Average Depth to Water [1] (feet)	Top of Casing Elevation [2] (feet PLLW)	Groundwater Elevation [2] (feet PLLW)	Well Type	Water Level Frequency
Comm/PX	600GW109	13:30	3.40	11.67	8.27	MW	Q
Comm/PX	610GW101	12:44	1.95	9.91	7.96	MW	Q
Comm/PX	610GW102	12:45	2.44	10.29	7.85	MW	Q
Comm/PX	610GW103	12:55	3.51	11.13	7.62	MW	Q
Comm/PX	610SP01 [3]	12:58	Underwater	NM	NM	Seep	Q
Comm/PX	610SP02 [3]	13:00	Underwater	NM	NM	Seep	Q
Fill Site 6	LF6GW100	12:00	12.02	28.73	16.71	MW	Q
Fill Site 6	LF6GW101	11:35	11.13	27.03	15.90	MW	Q
Fill Site 6	LF6GW103	10:38	7.09	18.41	11.32	MW	Q
Fill Site 6	LF6GW104	10:54	9.23	25.74	16.51	MW	Q
Fill Site 6	LF6GW105	10:45	21.70	41.97	20.27	MW	Q
Fill Site 6	LF6GW106	10:13	9.72	25.69	15.97	MW	Q
Fill Site 6	LF6PZ101	16:50	0.90	10.44	9.54	MW	Q
Fill Site 6	LF6PZ102	17:00	0.00	11.59	11.59	MW	Q
Fill Site 6	LF6PZ103	16:57	2.70	14.09	11.39	MW	Q
Fill Site 6	LF6PZ104	16:54	6.82	17.45	10.63	MW	Q
Fill Site 6	LF6PZ105	16:55	0.67	13.75	13.08	MW	Q
Fill Site 6	LF6PZ106	17:02	4.45	15.23	10.78	MW	Q
Building 1065	1047MW101	12:05	3.82	19.92	16.10	MW	Q
Building 1065	1065MW9A	12:14	2.98	13.31	10.33	MW	Q
Building 1065	1065MW9B [6]	12:19	0.00	13.39	13.39	MW	Q
Building 1065	1065MW10A	12:10	2.89	17.33	14.44	MW	Q
Building 1065	1065MW10B	12:07	3.55	17.40	13.85	MW	Q
Building 1065	1065MW11A	11:20	8.04	23.61	15.57	MW	Q
Building 1065	1065MW11B	11:22	8.10	23.43	15.33	MW	Q
Building 1065	1065MW101	12:17	5.55	13.06	7.51	MW	Q
Building 1065	1065MW102	12:20	3.80	12.83	9.03	MW	Q
Building 1065	1065PZ1A	11:52	5.33	13.30	7.97	PZ	Q
Building 1065	1065PZ1B	11:55	0.68	13.31	12.63	PZ	Q
Building 1065	1065PZ2A	12:05	3.12	12.82	9.70	PZ	Q
Building 1065	1065PZ2B	12:02	1.05	15.56	14.51	PZ	Q
Building 1065	1065PZ3A	11:10	8.75	23.96	15.21	PZ	Q
Building 1065	1065PZ3B	11:13	8.75	23.65	14.90	PZ	Q
Building 1065	1065PZ4A	10:20	4.90	14.19	9.29	PZ	Q
Building 1065	1065PZ4B	10:23	2.11	14.45	12.34	PZ	Q
Building 1065	1065PZ5AR	12:13	2.83	17.38	14.55	PZ	Q
Building 1065	1065PZ5B	12:15	2.00	17.34	15.34	PZ	Q
Building 1065	1065PZ6A [7]	11:40	NM	26.19	NM	PZ	Q
Building 1065	1065PZ6B [7]	11:55	NM	26.36	NM	PZ	Q
Building 1065	1065PZ7A	10:29	2.80	16.11	13.31	PZ	Q
Building 1065	1065PZ7B	10:32	2.55	15.73	13.18	PZ	Q
Building 1027	1027MW01	11:05	8.16	23.10	14.94	MW	Q
Building 1027	1027MW03	10:58	8.30	23.57	15.27	MW	Q
Building 207/231	207GW03	9:10	3.45	9.98	6.53	MW	Q
Building 207/231	231GW06	10:51	4.43	13.86	9.43	MW	Q
Building 207/231	231GW09	10:08	12.60	24.28	11.68	MW	Q
Building 207/231	231GW10	9:17	2.96	11.37	8.41	MW	Q
Building 207/231	231GW11	10:46	2.35	11.11	8.76	MW	Q
Building 207/231	231GW13	9:31	2.15	13.70	11.55	MW	Q
Building 207/231	231GW15	9:33	3.38	11.00	7.62	MW	Q
Building 207/231	231GW16	9:36	5.53	10.80	5.27	MW	Q
Building 207/231	231GW17	9:49	0.98	12.50	11.52	MW	Q

Table 2A
Groundwater Elevation Summary for Presidio Monitoring Wells
Elevations Collected on 6 March 2006
Presidio of San Francisco, California

Site	Well ID	Time	Average Depth to Water [1] (feet)	Top of Casing Elevation [2] (feet PLLW)	Groundwater Elevation [2] (feet PLLW)	Well Type	Water Level Frequency
Building 207/231	231GW18	9:53	2.09	12.30	10.21	MW	Q
Building 207/231	231GW19	9:56	2.93	12.20	9.27	MW	Q
Building 207/231	231GW20	10:57	1.65	13.30	11.65	MW	Q
Building 207/231	231GW21	10:54	5.20	13.50	8.30	MW	Q
Building 207/231	231GW22	10:33	6.44	15.88	9.44	MW	Q
Building 207/231	231GW23	9:21	2.87	11.84	8.97	MW	Q
Building 207/231	231GW24	9:44	3.35	11.63	8.28	MW	Q
Building 207/231	231GW25	11:47	3.49	12.45	8.96	MW	Q
Building 207/231	231GW26	10:30	6.51	16.13	9.62	MW	Q
Building 207/231	231GW27	10:01	9.97	20.32	10.35	MW	Q
Building 207/231	231GW28	10:11	3.28	12.03	8.75	MW	Q
Building 207/231	231GW29	10:16	2.24	11.11	8.87	MW	Q
Building 207/231	231GW30	9:28	5.10	12.68	7.58	MW	Q
Building 207/231	231PZ01	10:20	5.88	15.47	9.59	PZ	Q
Building 207/231	231PZ02	10:22	5.40	15.13	9.73	PZ	Q
Building 207/231	231PZ03	10:40	4.92	13.95	9.03	PZ	Q
Building 207/231	231PZ04	10:38	4.57	13.60	9.03	PZ	Q
Building 207/231	OW-1	11:40	1.97	--	--	PZ	Q
Landfill 10	LF10GW01	11:45	5.45	115.59	110.14	MW	Q
Landfill 10	LF10GW02	12:00	2.89	105.67	102.78	MW	Q
Landfill 10	LF10GW03	9:30	37.74	180.80	143.06	MW	Q
Landfill 10	LF10GW100 [8]	9:40	38.29	175.30	137.01	MW	Q
Landfill 10	LF10SP01 [3]	12:12	Flowing	NM	NM	Seep	Q
Landfill 4	LF04GW03	14:34	14.40	292.70	278.30	MW	Q
Landfill 4	LF4GW100	12:23	21.21	299.84	278.63	MW	Q
Landfill 4	LF4GW101	14:18	15.27	297.35	282.08	MW	Q
Landfill 4	LF4GW102	17:37	23.24	329.49	306.25	MW	Q
Landfill 4	LF4GW103	14:25	21.33	304.26	282.93	MW	Q
Landfill 4	LF4GW104	14:30	18.45	297.75	279.30	MW	Q
Landfill 4	LF4GW105	14:32	31.05	300.57	269.52	MW	Q
Landfill 4	LF4GW106	14:26	13.54	311.36	297.82	MW	Q
Baker Beach Disturbed Area 3	BB3GW100	9:42	24.85	193.84	168.99	MW	Q
Baker Beach Disturbed Area 3	BB3GW101	9:38	26.68	158.28	131.60	MW	Q
Baker Beach Disturbed Area 3	BB3PZ101 [9]	9:31	17.32	156.97	139.65	PZ	Q
Baker Beach Disturbed Area 3	BB3PZ102	9:19	6.15	73.18	67.03	PZ	Q
Baker Beach Disturbed Area 3	BB3SW100	9:23	3.04	67.34	64.30	FMP	Q
Baker Beach Disturbed Area 3	BB3SW101	9:25	1.94	78.98	77.04	FMP	Q
Baker Beach Disturbed Area 3	BB3SW102	9:28	2.00	115.39	113.39	FMP	Q
Baker Beach Disturbed Area 3	BB3SW104	9:18	Flowing	66.07	66.07	FMP	Q
Mini-CAP Areas	FM14EX07GW101	16:20	23.90	183.43	159.53	MW	Q
Mini-CAP Areas	FM14EX07GW102	16:22	24.11	173.29	149.18	MW	Q
Mini-CAP Areas	1213GW101	14:12	22.01	221.35	199.34	MW	Q
Mini-CAP Areas	1221GW101	15:28	10.28	223.59	213.31	MW	Q
Mini-CAP Areas	1221GW102	15:50	6.80	223.46	216.66	MW	Q

Table 2A
Groundwater Elevation Summary for Presidio Monitoring Wells
Elevations Collected on 6 March 2006
Presidio of San Francisco, California

Site	Well ID	Time	Average Depth to Water [1] (feet)	Top of Casing Elevation [2] (feet PLLW)	Groundwater Elevation [2] (feet PLLW)	Well Type	Water Level Frequency
Mini-CAP Areas	1221GW103	15:22	10.20	223.34	213.14	MW	Q
Mini-CAP Areas	1221GW104	16:06	12.00	223.39	211.39	MW	Q
Mini-CAP Areas	1260GW101	15:00	10.24	145.76	135.52	MW	Q
Mini-CAP Areas	1260GW102	15:04	21.15	145.91	124.76	MW	Q
Mini-CAP Areas	1260GW103	15:08	25.15	145.89	120.74	MW	Q
Mini-CAP Areas	514AGW101	16:47	20.23	201.34	181.11	MW	Q

Notes:
1 - Depth to water reading was measured from the northernmost side of the casing.
The elevation presented is the average of three measurements.
2 - Elevations reported in Presidio Lower Low Water (PLLW) datum.
3 - Surface water sample, no groundwater elevation.
4 - UBR01GW01 was unable to be located due to gravel covering.
5 - Value represents the bottom of casing elevation in PLLW.
6 - Groundwater level was above the top of casing.
7 - Piezometers 1065PZ6A and 1065PZ6B were covered in bark and dirt and could not be accessed on 6 March 2006.
8 - The lid of monitoring well LF10GW100 has been surveyed by the Trust (175.60 feet PLLW). The elevation difference between the monitoring well lid and the top of casing was measured in the field and has been verified to be 0.30 feet. Therefore, the LF10GW100 top of casing elevation is approximately 175.30 feet PLLW.
9 - BB3PZ101 was formerly named BB3SW103. Additionally, the depth to water measurement (14.45 feet) during the Fourth Quarter 2004 was measured from the ground surface. Subsequently, the ground and the top of casing elevations were surveyed and the depth to water measurement was converted to a top of casing measurement (16.80 feet).
10 - Predicted tidal schedules were taken from:
http://tidesandcurrents.noaa.gov/station_retrieve.shtml?type=Tide+Data
11 - Actual high and low tidal schedules were taken from:
http://tidesandcurrents.noaa.gov/data_menu.shtml?stn=9414290%20San%20Francisco,%20CA&type=Tide%20Data
Water level magnitudes were then converted into the PLLW datum.

Predicted Tidal Schedule on 6 March 2006 [10]:
Low Tide - 11:12 AM
High Tide - 6:48 PM

Observed Tidal Schedule and Magnitude on 6 March 2006 [11]:
Low Tide - 11:08 AM (Magnitude 0.8 feet PLLW)
High Tide - 7:06 PM (Magnitude 6.41 feet PLLW)

Acronyms
FMP - Fixed Water Monitoring Point consisting of a slotted PVC casing installed up to 3 feet below ground surface.
MW - Monitoring well
NA - Not applicable
NM - Not measured
PZ - Piezometer
Q - Quarterly monitoring schedule

Table 2B
Groundwater Elevation Summary for Presidio Monitoring Wells
Elevations Collected on 22 May 2006
Presidio of San Francisco, California

Site	Well ID	Time	Average Depth to Water [1] (feet)	Top of Casing Elevation [2] (feet PLLW)	Groundwater Elevation [2] (feet PLLW)	Well Type	Water Level Frequency
Building 900s Area	937GW06	14:29	5.86	11.05	5.19	MW	Q
Building 900s Area	937GW07	15:11	8.87	13.94	5.07	MW	Q
Building 900s Area	937GW12	15:14	6.63	10.34	3.71	MW	Q
Building 900s Area	937GW15	15:04	7.29	12.90	5.61	MW	Q
Building 900s Area	937GW32R	14:35	5.62	10.60	4.98	MW	Q
Building 900s Area	937GW35	14:50	6.90	11.64	4.74	MW	Q
Building 900s Area	937GW37	15:01	7.16	12.74	5.58	MW	Q
Building 900s Area	937GW38	15:25	4.68	10.23	5.55	MW	Q
Building 900s Area	937GW39	14:40	8.02	12.49	4.47	MW	Q
Building 900s Area	937GW42	14:25	5.67	10.62	4.95	MW	Q
Building 900s Area	937GW101	14:50	6.58	11.81	5.23	MW	Q
Building 900s Area	937GW102	14:52	6.60	11.69	5.09	MW	Q
Building 900s Area	937GW103	15:18	6.39	11.56	5.17	MW	Q
Building 900s Area	937GW104	14:43	6.57	11.52	4.95	MW	Q
Building 900s Area	937GW105	14:46	7.18	11.50	4.32	MW	Q
Building 900s Area	937GW106	14:42	10.11	15.20	5.09	MW	Q
Building 900s Area	937GW107	14:44	10.87	15.11	4.24	MW	Q
Building 900s Area	937GW108	15:12	5.69	12.11	6.42	MW	Q
Building 900s Area	950GW108	14:55	7.54	11.60	4.06	MW	Q
Building 900s Area	979GW109	14:57	6.58	10.62	4.04	MW	Q
Building 900s Area	979GW110	15:00	9.91	10.62	0.71	MW	Q
Building 900s Area	979GW111R	14:35	15.40	19.69	4.29	MW	Q
Building 900s Area	979GW112	14:38	15.47	19.72	4.25	MW	Q
Building 900s Area	979GW113	14:50	6.61	10.41	3.80	MW	Q
Building 900s Area	979GW114	14:47	6.47	10.53	4.06	MW	Q
Building 900s Area	979GW115	14:41	7.99	12.26	4.27	MW	Q
Building 900s Area	979GW116	14:37	7.94	12.19	4.25	MW	Q
Building 900s Area	979GW117	14:32	11.07	12.17	1.10	MW	Q
Landfill 8	LF08GW01	10:10	17.23	234.54	217.31	MW	Q
Landfill 8	LF08GW02B	10:25	44.75	225.27	180.52	MW	Q
Landfill 8	LF08GW03	10:20	33.42	230.41	196.99	MW	Q
Landfill 8	LF08GW04	10:34	31.54	234.70	203.16	MW	Q
Landfill 8	LF08GW06	10:13	15.84	234.31	218.47	MW	Q
Landfill 8	LF08PZ01	11:00	8.65	234.34	225.69	PZ	Q
Landfill 8	LF08PZ02	10:04	19.46	234.62	215.16	PZ	Q
Fill Site 1	LF01GW01	12:34	5.42	105.31	99.89	MW	Q
Fill Site 1	LF01GW02	12:27	22.12	98.98	76.86	MW	Q
Fill Site 1	LF01GW03	13:11	44.80	151.82	107.02	MW	Q
Fill Site 1	LF01GW04	12:50	51.41	159.39	107.98	MW	Q
Fill Site 1	LF01GW05	12:40	12.85	83.72	70.87	MW	Q
Fill Site 1	LF01GW06	12:50	60.98	145.23	84.25	MW	Q
Fill Site 1	LF01GW07	12:58	52.94	162.00	109.06	MW	Q
El Polin Spring	EPSP01 [3]	12:22	Flowing	NM	NM	Seep	Q
Landfill 2	LF02GW01	12:35	0.78	98.57	97.79	MW	Q
Landfill 2	LF02GW02	12:30	1.45	101.99	100.54	MW	Q
Landfill 2	LF02GW04	13:15	15.10	172.60	157.50	MW	Q

Table 2B
Groundwater Elevation Summary for Presidio Monitoring Wells
Elevations Collected on 22 May 2006
Presidio of San Francisco, California

Site	Well ID	Time	Average Depth to Water [1] (feet)	Top of Casing Elevation [2] (feet PLLW)	Groundwater Elevation [2] (feet PLLW)	Well Type	Water Level Frequency
Tennessee Hollow	10GW100	13:12	41.96	76.88	34.92	MW	Q
Tennessee Hollow	PGFGW100	12:55	33.89	133.71	99.82	MW	Q
Tennessee Hollow	TH-1	13:05	14.55	80.76	66.21	MW	Q
Tennessee Hollow	TH-2	12:45	52.44	111.26	58.82	MW	Q
Tennessee Hollow	TH-3	12:34	7.30	64.68	57.38	MW	Q
Tennessee Hollow	TH-4	13:10	0.15	44.59	44.44	MW	Q
Upgradient	UBR01GW01[4]	13:30	NM	164.71	NM	MW	Q
Upgradient	UBR02GW01	14:05	6.44	253.39	246.95	MW	Q
Upgradient	UBR02GW02	14:08	6.61	253.56	246.95	MW	Q
Upgradient	UBR03GW01	13:42	30.25	171.22	140.97	MW	Q
Upgradient	UBR03GW02	13:50	12.45	170.96	158.51	MW	Q
Building 1349	1349MW01	12:31	21.54	300.44	278.90	MW	Q
Building 1349	1349MW02	12:50	23.43	311.22	287.79	MW	Q
Building 1349	1349MW03R	12:15	20.40	304.13	283.73	MW	Q
Building 1349	1349MW100	13:00	22.79	309.60	286.81	MW	Q
Building 1349	1349MW101	12:09	19.51	311.63	292.12	MW	Q
Building 1349	1349MW102	12:53	15.12	305.68	290.56	MW	Q
Building 1349	1349MW103	12:48	30.57	318.07	287.50	MW	Q
Building 1349	1349MW104	12:37	24.50	314.58	290.08	MW	Q
Building 1349	1349MW105	12:40	24.60	312.05	287.45	MW	Q
Fill Site 5	LF5GW100	13:38	8.54	229.74	221.20	MW	Q
Fill Site 5	LF5GW101	13:42	5.14	234.36	229.22	MW	Q
Fill Site 5	LF5GW102	12:27	23.49	294.76	271.27	MW	Q
Fill Site 5	LF5GW103	12:23	6.23	279.12	272.89	MW	Q
Fill Site 5	LF5GW104	12:19	17.30	286.05	268.75	MW	Q
Fill Site 5	LF5SP100 [3]	13:31	Not Flowing	NM	NM	Seep	Q
Landfill E	DAEGW03	12:20	52.58	107.48	54.90	MW	Q
Landfill E	DAEGW04	12:20	40.90	94.38	53.48	MW	Q
Landfill E	DAEGW05	12:09	51.12	105.65	54.53	MW	Q
Landfill E	DAEGW06	11:50	9.89	119.26	109.37	MW	Q
Landfill E	DAEGW07	11:58	5.01	75.66	70.65	MW	Q
Landfill E	DAEGW08	12:02	17.28	71.66	54.38	MW	Q
Landfill E	DAEGW101	12:07	35.32	107.09	71.77	MW	Q
Landfill E	DAEGW102	12:02	11.09	116.72	105.63	MW	Q
Landfill E	DAEGW103	12:24	29.07	111.73	82.66	MW	Q
Landfill E	DAEGW104	12:06	19.79	120.28	100.49	MW	Q
Landfill E	DAEPZ101	12:16	21.67	113.83	92.16	PZ	Q
Landfill E	DAEPZ102	12:14	27.02	110.09	83.07	PZ	Q
Landfill E	DAESP03 [3]	12:24	Not Flowing	NM	NM	Seep	Q
Nike Facility	NKGW01	11:18	26.21	278.38	252.17	MW	Q
Nike Facility	NKGW02	10:42	12.60	312.00	299.40	MW	Q
Nike Facility	NKGW03	15:54	13.90	334.60	320.70	MW	Q
Nike Facility	NKGW04 [7]	15:58	NM	299.60	NM	MW	Q
Nike Facility	NKGW05	11:08	18.71	284.20	265.49	MW	Q
Battery H-W	BHWGW01	10:59	17.39	178.04	160.65	MW	Q
Battery H-W	BHWGW04	10:49	10.99	197.73	186.74	MW	Q
Battery H-W	BHWGW05	10:44	27.85	202.95	175.10	MW	Q
Battery H-W	HWGW100	10:32	19.71	209.68	189.97	MW	Q
Battery H-W	HWGW101	10:36	22.52	214.24	191.72	MW	Q
Battery H-W	HWGW102	10:42	Dry	211.44	174.44 [5]	MW	Q

Table 2B
Groundwater Elevation Summary for Presidio Monitoring Wells
Elevations Collected on 22 May 2006
Presidio of San Francisco, California

Site	Well ID	Time	Average Depth to Water [1] (feet)	Top of Casing Elevation [2] (feet PLLW)	Groundwater Elevation [2] (feet PLLW)	Well Type	Water Level Frequency
Comm/PX	600GW101	14:49	4.09	10.66	6.57	MW	Q
Comm/PX	600GW102	14:53	3.71	10.10	6.39	MW	Q
Comm/PX	600GW103	14:56	3.23	10.31	7.08	MW	Q
Comm/PX	600GW104	15:02	3.58	10.48	6.90	MW	Q
Comm/PX	600GW105	14:48	3.17	17.64	14.47	MW	Q
Comm/PX	600GW106	14:43	4.15	16.04	11.89	MW	Q
Comm/PX	600GW107	14:55	3.59	16.76	13.17	MW	Q
Comm/PX	600GW108	14:58	4.88	12.29	7.41	MW	Q
Comm/PX	600GW109	15:02	3.96	11.67	7.71	MW	Q
Comm/PX	610GW101	14:38	2.97	9.91	6.94	MW	Q
Comm/PX	610GW102	14:37	3.38	10.29	6.91	MW	Q
Comm/PX	610GW103	14:42	4.46	11.13	6.67	MW	Q
Comm/PX	610SP01	15:05	Not Flowing	NM	NM	Seep	Q
Comm/PX	610SP02	15:08	Not Flowing	NM	NM	Seep	Q
Fill Site 6	LF6GW100	9:58	12.17	28.73	16.56	MW	Q
Fill Site 6	LF6GW101	10:01	11.20	27.03	15.83	MW	Q
Fill Site 6	LF6GW103	16:24	7.15	18.41	11.26	MW	Q
Fill Site 6	LF6GW104	11:53	9.35	25.74	16.39	MW	Q
Fill Site 6	LF6GW105	11:50	21.33	41.97	20.64	MW	Q
Fill Site 6	LF6GW106	11:30	9.65	25.69	16.04	MW	Q
Fill Site 6	LF6PZ101	11:26	0.92	10.44	9.52	MW	Q
Fill Site 6	LF6PZ102	11:37	0.00	11.59	11.59	MW	Q
Fill Site 6	LF6PZ103	11:38	2.90	14.09	11.19	MW	Q
Fill Site 6	LF6PZ104	11:40	7.09	17.45	10.36	MW	Q
Fill Site 6	LF6PZ105	11:38	0.70	13.75	13.05	MW	Q
Fill Site 6	LF6PZ106	11:35	4.82	15.23	10.41	MW	Q
Building 1065	1047MW101	10:11	4.72	19.92	15.20	MW	Q
Building 1065	1065MW9A	10:30	3.64	13.31	9.67	MW	Q
Building 1065	1065MW9B [6]	10:33	0.00	13.39	13.39	MW	Q
Building 1065	1065MW10A	10:20	3.47	17.33	13.86	MW	Q
Building 1065	1065MW10B	10:24	3.79	17.40	13.61	MW	Q
Building 1065	1065MW11A	10:02	8.44	23.61	15.17	MW	Q
Building 1065	1065MW11B	10:04	8.37	23.43	15.06	MW	Q
Building 1065	1065MW101	10:42	5.69	13.06	7.37	MW	Q
Building 1065	1065MW102	10:46	4.40	12.83	8.43	MW	Q
Building 1065	1065PZ1A	10:51	5.53	13.30	7.77	PZ	Q
Building 1065	1065PZ1B	10:45	0.72	13.31	12.59	PZ	Q
Building 1065	1065PZ2A	10:34	3.28	12.82	9.54	PZ	Q
Building 1065	1065PZ2B	10:38	1.02	15.56	14.54	PZ	Q
Building 1065	1065PZ3A	9:43	9.08	23.96	14.88	PZ	Q
Building 1065	1065PZ3B	9:46	8.75	23.65	14.90	PZ	Q
Building 1065	1065PZ4A	11:01	5.21	14.19	8.98	PZ	Q
Building 1065	1065PZ4B	10:59	2.63	14.45	11.82	PZ	Q
Building 1065	1065PZ5AR	10:24	3.15	17.38	14.23	PZ	Q
Building 1065	1065PZ5B	10:20	2.02	17.34	15.32	PZ	Q
Building 1065	1065PZ6A [7]	NM	NM	26.19	NM	PZ	Q
Building 1065	1065PZ6B	9:53	10.27	26.36	16.09	PZ	Q
Building 1065	1065PZ7A	10:53	2.72	16.11	13.39	PZ	Q
Building 1065	1065PZ7B	10:50	2.24	15.73	13.49	PZ	Q

Table 2B
Groundwater Elevation Summary for Presidio Monitoring Wells
Elevations Collected on 22 May 2006
Presidio of San Francisco, California

Site	Well ID	Time	Average Depth to Water [1] (feet)	Top of Casing Elevation [2] (feet PLLW)	Groundwater Elevation [2] (feet PLLW)	Well Type	Water Level Frequency
Building 1027	1027MW01	9:37	8.45	23.10	14.65	MW	Q
Building 1027	1027MW03	9:36	8.47	23.57	15.10	MW	Q
Building 207/231	207GW03	9:15	3.48	9.98	6.50	MW	Q
Building 207/231	231GW06	10:42	4.54	13.86	9.32	MW	Q
Building 207/231	231GW09	11:15	12.80	24.28	11.48	MW	Q
Building 207/231	231GW10	9:50	3.28	11.37	8.09	MW	Q
Building 207/231	231GW11	10:32	3.01	11.11	8.10	MW	Q
Building 207/231	231GW13	9:27	2.17	13.70	11.53	MW	Q
Building 207/231	231GW15	9:29	3.37	11.00	7.63	MW	Q
Building 207/231	231GW16	9:31	5.68	10.80	5.12	MW	Q
Building 207/231	231GW17	9:55	0.82	12.50	11.68	MW	Q
Building 207/231	231GW18	9:56	1.70	12.30	10.60	MW	Q
Building 207/231	231GW19	10:00	3.92	12.20	8.28	MW	Q
Building 207/231	231GW20	10:47	1.74	13.30	11.56	MW	Q
Building 207/231	231GW21	10:45	5.28	13.50	8.22	MW	Q
Building 207/231	231GW22	10:12	6.31	15.88	9.57	MW	Q
Building 207/231	231GW23	9:46	2.72	11.84	9.12	MW	Q
Building 207/231	231GW24	9:40	4.13	11.63	7.50	MW	Q
Building 207/231	231GW25	9:21	4.14	12.45	8.31	MW	Q
Building 207/231	231GW26	10:15	6.73	16.13	9.40	MW	Q
Building 207/231	231GW27	10:07	10.12	20.32	10.20	MW	Q
Building 207/231	231GW28	11:11	3.58	12.03	8.45	MW	Q
Building 207/231	231GW29	11:07	2.41	11.11	8.70	MW	Q
Building 207/231	231GW30	9:34	5.83	12.68	6.85	MW	Q
Building 207/231	231PZ01	10:56	5.88	15.47	9.59	PZ	Q
Building 207/231	231PZ02	11:00	5.41	15.13	9.72	PZ	Q
Building 207/231	231PZ03	10:25	5.12	13.95	8.83	PZ	Q
Building 207/231	231PZ04	10:22	4.78	13.60	8.82	PZ	Q
Building 207/231	OW-1	11:04	1.84	13.28	11.44	PZ	Q
Landfill 10	LF10GW01	9:30	5.69	115.59	109.90	MW	Q
Landfill 10	LF10GW02 [7]	9:52	NM	105.67	NM	MW	Q
Landfill 10	LF10GW03	9:50	36.35	180.80	144.45	MW	Q
Landfill 10	LF10GW100 [8]	9:38	40.39	175.30	134.91	MW	Q
Landfill 10	LF10SP01 [3,7]	9:52	NM	NM	NM	Seep	Q
Landfill 4	LF04GW03	11:28	13.81	292.70	278.89	MW	Q
Landfill 4	LF4GW100	11:50	16.05	299.84	283.79	MW	Q
Landfill 4	LF4GW101	11:37	15.13	297.35	282.22	MW	Q
Landfill 4	LF4GW102	12:05	17.11	329.49	312.38	MW	Q
Landfill 4	LF4GW103	11:45	17.33	304.26	286.93	MW	Q
Landfill 4	LF4GW104	11:37	13.99	297.75	283.76	MW	Q
Landfill 4	LF4GW105	11:33	25.11	300.57	275.46	MW	Q
Landfill 4	LF4GW106	11:53	8.91	311.36	302.45	MW	Q

Table 2B
Groundwater Elevation Summary for Presidio Monitoring Wells
Elevations Collected on 22 May 2006
Presidio of San Francisco, California

Site	Well ID	Time	Average Depth to Water [1] (feet)	Top of Casing Elevation [2] (feet PLLW)	Groundwater Elevation [2] (feet PLLW)	Well Type	Water Level Frequency
Baker Beach Disturbed Area 1	BB1PZ100	9:33	3.28	107.48	104.20 [9]	PZ	Q
Baker Beach Disturbed Area 1	BB1PZ101	9:28	4.52	68.36	63.84 [9]	PZ	Q
Baker Beach Disturbed Area 2A	BB2ASW100	9:45	Dry	28.69	NM	Seep	Q
Baker Beach Disturbed Area 3	BB3GW100	13:07	25.40	193.84	168.44	MW	Q
Baker Beach Disturbed Area 3	BB3GW101	13:26	26.05	158.28	132.23	MW	Q
Baker Beach Disturbed Area 3	BB3PZ101 [10]	13:10	Dry	156.97	136.97 [5]	PZ	Q
Baker Beach Disturbed Area 3	BB3PZ102	13:19	Dry	73.18	NM	PZ	Q
Baker Beach Disturbed Area 3	BB3SW100	13:22	3.96	67.34	63.38	FMP	Q
Baker Beach Disturbed Area 3	BB3SW101	13:16	2.36	78.98	76.62	FMP	Q
Baker Beach Disturbed Area 3	BB3SW102	13:13	1.93	115.39	113.46	FMP	Q
Baker Beach Disturbed Area 3	BB3SW104	13:23	Flowing	66.07	66.07	FMP	Q
Mini-CAP Areas	FM14EX07GW101	14:22	23.21	183.43	160.22	MW	Q
Mini-CAP Areas	FM14EX07GW102	14:26	24.60	173.29	148.69	MW	Q
Mini-CAP Areas	1213GW101	10:24	18.34	221.35	203.01	MW	Q
Mini-CAP Areas	1221GW101	11:14	6.92	223.59	216.67	MW	Q
Mini-CAP Areas	1221GW102	11:05	7.86	223.46	215.60	MW	Q
Mini-CAP Areas	1221GW103	11:08	9.68	223.34	213.66	MW	Q
Mini-CAP Areas	1221GW104	11:11	12.47	223.39	210.92	MW	Q
Mini-CAP Areas	1260GW101	14:18	6.46	145.76	139.30	MW	Q
Mini-CAP Areas	1260GW102	14:09	19.49	145.91	126.42	MW	Q
Mini-CAP Areas	1260GW103	13:59	21.64	145.89	124.25	MW	Q
Mini-CAP Areas	514AGW101	14:28	20.09	201.34	181.25	MW	Q

Table 2B
Groundwater Elevation Summary for Presidio Monitoring Wells
Elevations Collected on 22 May 2006
Presidio of San Francisco, California

Site	Well ID	Time	Average Depth to Water [1] (feet)	Top of Casing Elevation [2] (feet PLLW)	Groundwater Elevation [2] (feet PLLW)	Well Type	Water Level Frequency

Notes:
1 - Depth to water reading was measured from the northernmost side of the casing.
The elevation presented is the average of three measurements.
2 - Elevations reported in Presidio Lower Low Water (PLLW) datum.
3 - Surface water sample, no groundwater elevation.
4 - UBR01GW01 was unable to be located due to gravel covering.
5 - Value represents the bottom of casing elevation in PLLW.
6 - Groundwater level was above the top of casing.
7 - Unable to locate monitoring well / piezometer on 22 May 2006.
8 - The lid of monitoring well LF10GW100 has been surveyed by the Trust (175.60 feet PLLW). The elevation difference between the monitoring well lid and the top of casing was measured in the field and has been verified to be 0.30 feet. Therefore, the LF10GW100 top of casing elevation is approximately 175.30 feet PLLW.
9 - Piezometer used to monitor surface water seep location.
10 - BB3PZ101 was formerly named BB3SW103. Additionally, the depth to water measurement (14.45 feet) during the Fourth Quarter 2004 was measured from the ground surface. Subsequently, the ground and the top of casing elevations were surveyed and the depth to water measurement was converted to a top of casing measurement (16.80 feet).
11 - Predicted tidal schedules were taken from:
http://co-ops.nos.noaa.gov/cgi-bin/get_pred.cgi?year=2005&stn=1813+San+Francisco
12 - Actual high and low tidal schedules and magnitudes were taken from:
http://co-ops.nos.noaa.gov/data_res.html by selecting 'U.S. and Global Coastal Stations' then selecting station number '9414290 San Francisco, CA'. Water level magnitudes were taken by selecting the 'W3 - High/Lows' Time Interval and converting the data into the PLLW datum.

Predicted Tidal Schedule on 22 May 2006 [10]:
Low Tide - 8:12 PM
High Tide - 11:42 AM

Observed Tidal Schedule and Magnitude on 22 May 2006 [11]:
Low Tide - 8:06 PM (Magnitude 0.79 feet PLLW)
High Tide - 11:36 AM (Magnitude 5.6 feet PLLW)

Acronyms
FMP - Fixed Water Monitoring Point consisting of a slotted PVC casing installed up to 3 feet below ground surface.
MW - Monitoring well
NA - Not applicable
NM - Not measured
PZ - Piezometer
Q - Quarterly monitoring schedule

Table 3
Well Construction Details
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

Site Name	Well ID	Installation Date	Top of Casing Elevation (feet PLLW)	Total Depth of Boring (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Bottom of Casing (depth in feet)	Top of Screen (depth in feet)	Bottom of Screen (depth in feet)
Building 900s Area	937GW06	03/02/84	11.05	19	6	2	18.3	3.3	18.3
Building 900s Area	937GW07	03/02/84	13.94	14	6	2	13.6	3.6	13.6
Building 900s Area	937GW12	05/16/84	10.34	15	6	2	12.9	2.9	12.9
Building 900s Area	937GW15	05/17/84	12.90	14.7	6	2	12.3	8.0	12.3
Building 900s Area	937GW32R	04/12/94	10.60	41.5	11	4	40.0	29.5	39.5
Building 900s Area	937GW35	10/09/91	11.64	16.5	10	4	15.5	5.0	15.0
Building 900s Area	937GW37	10/27/92	12.74	16	12	4	14.7	4.7	14.7
Building 900s Area	937GW38	10/28/92	10.23	48.5	12	4	47.0	37.0	47.0
Building 900s Area	937GW39	10/30/92	12.49	45.5	12	4	46.0	35.0	45.0
Building 900s Area	937GW42	04/13/94	10.62	31.7	10.5	4	29.5	19.0	29.0
Building 900s Area	937GW101	06/20/01	11.81	15	8	2	15.0	5.0	15.0
Building 900s Area	937GW102	06/20/01	11.69	30	8	2	30.0	20.0	30.0
Building 900s Area	937GW103	06/21/01	11.56	54	8	2	45.0	35.0	45.0
Building 900s Area	937GW104	06/19/01	11.52	15	8	2	15.0	5.0	15.0
Building 900s Area	937GW105	06/19/01	11.50	30	8	2	30.0	20.0	30.0
Building 900s Area	937GW106	06/27/01	15.20	15	8	2	15.0	5.0	15.0
Building 900s Area	937GW107	06/27/01	15.11	30	8	2	30.0	20.0	30.0
Building 900s Area	937GW108	05/24/02	12.11	15	8	2	15.0	5.0	15.0
Building 900s Area	950GW108	06/29/01	11.60	30	8	2	30.0	20.0	30.0
Building 900s Area	979GW109	06/21/01	10.62	15	8	2	15.0	5.0	15.0
Building 900s Area	979GW110	06/22/01	10.62	30	8	2	30.0	20.0	30.0
Building 900s Area	979GW111R	06/28/01	19.69	15	8	2	15.0	5.0	15.0
Building 900s Area	979GW112	06/28/01	19.72	30	8	2	30.0	20.0	30.0
Building 900s Area	979GW113	06/25/01	10.41	15	8	2	15.0	5.0	15.0
Building 900s Area	979GW114	06/22/01	10.53	30	8	2	30.0	20.0	30.0
Building 900s Area	979GW115	06/22/01	12.26	15	8	2	15.0	5.0	15.0
Building 900s Area	979GW116	06/26/01	12.19	30	8	2	30.0	20.0	30.0
Building 900s Area	979GW117	06/25/01	12.17	45	8	2	45.0	35.0	45.0
Landfill 8	LF08GW01	09/25/90	234.54	50	10	4	44.5	34.0	44.0
Landfill 8	LF08GW02B	08/21/94	225.27	70	10	4	59.0	49.0	59.0
Landfill 8	LF08GW03	10/01/90	230.41	56.5	10	4	43.25	33.0	43.0
Landfill 8	LF08GW04	10/03/90	234.70	56.5	10	4	43.1	33.1	43.1
Landfill 8	LF08GW06	08/25/96	234.31	32	10	4	24.0	18.5	23.5
Landfill 8	LF08PZ01	08/25/96	234.34	30	8	2	22.5	12.0	22.0
Landfill 8	LF08PZ02	08/22/96	234.62	39.5	8	2	38.0	17.5	37.5
DEH Area	DEHGW01	08/13/92	11.18	14	10	4	13.2	2.7	12.7
DEH Area	DEHGW03	08/18/92	12.82	15.5	10.5	4	15.5	5.0	15.0
DEH Area	DEHGW05	05/24/99	10.36	15	10	4	15.0	4.5	14.5
DEH Area	DEHGW06	05/24/99	10.00	14.5	10	4	13.5	3.0	13.0
DEH Area	DEHGW07	05/25/99	12.15	15	10	4	15.0	4.5	14.5
DEH Area	DEHGW08	05/25/99	11.40	15	10	4	15.0	4.5	14.5
DEH Area	DEHGW09	05/25/99	9.91	15	10	4	13.5	3.0	13.0
DEH Area	DEHGW10	05/26/99	10.31	15	10	4	14.5	4.0	14.0
DEH Area	DEHGW11	05/26/99	10.27	15	10	4	14.5	4.0	14.0
DEH Area	DEHGW12	05/26/99	11.00	15	10	4	14.5	4.0	14.0
Fill Site 1	LF01GW01	10/23/90	105.31	18	10	4	16.5	6.0	16.0
Fill Site 1	LF01GW02	10/24/90	98.98	45	10	4	43.5	33.0	43.0
Fill Site 1	LF01GW03	10/31/90	151.82	66.5	10	4	63.0	52.5	62.5
Fill Site 1	LF01GW04	10/26/90	159.39	72.5	10	4	72.5	62.0	72.0
Fill Site 1	LF01GW05	11/01/90	83.72	41.5	10	4	37.0	26.5	36.5
Fill Site 1	LF01GW06	08/20/92	145.23	90	10	4	86.0	75.5	85.5
Fill Site 1	LF01GW07	11/16/94	162.00	70	10.25	4	70.0	59.6	69.6
Landfill 2	LF02GW01	10/19/90	98.57	21	10	4	20.0	9.5	19.5
Landfill 2	LF02GW02	10/22/90	101.99	19	10	4	19.0	8.5	18.5
Landfill 2	LF02GW04	12/09/94	172.60	29.5	10.5	4	29.5	19.0	29.0

Table 3
Well Construction Details
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

Site Name	Well ID	Installation Date	Top of Casing Elevation (feet PLLW)	Total Depth of Boring (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Bottom of Casing (depth in feet)	Top of Screen (depth in feet)	Bottom of Screen (depth in feet)
Building 100/104	100GW101	10/07/02	84.45	70.0	8	2	70.0	50.0	70.0
Building 100/104	104GW101	10/07/02	53.88	50.0	8	2	50.0	30.0	50.0
Building 1349	1349MW01	07/20/95	300.44	50	8	4	41.0	28.0	41.0
Building 1349	1349MW02	07/21/95	311.22	50	8	4	46.5	33.5	46.5
Building 1349	1349MW03R	05/01/03	304.13	36	8	2	36.0	19.0	36.0
Building 1349	1349MW100	09/24/02	309.60	40	8	2	40.0	25.0	40.0
Building 1349	1349MW101	04/30/03	311.63	45	8	2	44.0	34.0	44.0
Building 1349	1349MW102	04/22/03	305.68	35	8	2	35.0	25.0	35.0
Building 1349	1349MW103	04/25/03	318.07	48	8	2	48.0	33.0	48.0
Building 1349	1349MW104	04/22/03	314.58	42	8	2	42.0	32.0	42.0
Building 1349	1349MW105	05/01/03	312.05	42	8	2	42.0	30.0	42.0
Fill Site 5	LF5GW100	07/13/00	229.74	28	8	2	20.5	10.0	20.0
Fill Site 5	LF5GW101	07/13/00	234.36	21	8	2	21.0	10.0	20.0
Fill Site 5	LF5GW102	04/22/03	294.76	40	8	2	40.0	30.0	40.0
Fill Site 5	LF5GW103	04/21/03	279.12	23.5	8	2	22.0	12.0	22.0
Fill Site 5	LF5GW104	04/21/03	286.05	32	8	2	32.0	22.0	32.0
Landfill 4	LF04GW03	12/20/94	292.70	39.5	10.25	4	18.5	8.1	18.1
Landfill 4	LF4GW100	08/24/00	299.84	22.5	8	2	22.5	12.0	22.0
Landfill 4	LF4GW101	07/13/00	297.35	22.8	8	2	22.8	12.5	22.5
Landfill 4	LF4GW102	02/27/03	329.49	45	8	2	45.0	35.0	45.0
Landfill 4	LF4GW103	02/26/03	304.26	45	8	2	35.0	45.0	45.0
Landfill 4	LF4GW104	02/26/03	297.75	42	8	2	42.0	32.0	42.0
Landfill 4	LF4GW105	02/26/03	300.57	48.5	8	2	48.5	38.5	48.5
Landfill 4	LF4GW106	02/26/03	311.36	40	8	2	40.0	30.0	40.0
Building 637	637-01R	01/19/94	12.24	17	10.25	4	16.0	11.3	16.0
Building 637	637-19	01/25/94	11.81	21	10.25	4	20.0	10.4	20.0
Building 637	637-26	11/09/95	10.98	6	10	4	6.0	3.5	6.0
Building 637	637-27	11/08/95	11.70	6	10	4	6.0	2.5	6.0
Building 637	637-33	02/03/98	12.54	28	8.5	2	21.0	10.5	20.5
Building 637	637-34	10/20/99	12.94	8	7	2	7.8	4.8	7.8
Building 637	637-35	10/20/99	15.21	12.5	7	2	11.0	7.0	11.0
Building 637	637-36	10/21/99	14.31	8.5	7	2	8.0	5.0	8.0
Building 637	637-37	10/21/99	13.78	7	7	2	7.0	4.0	7.0
Building 637	637-38	10/20/99	11.69	8.5	7	2	6.0	3.0	6.0
Building 637	637-39R	07/27/01	10.25	6	8	2	6.0	3.0	6.0
Building 637	637-40	10/20/99	10.25	16	7	2	14.5	9.5	14.5
Building 637	LF07GW11	11/07/95	12.75	6	10.25	4	6.0	2.5	6.0
Commissary/PX	600GW101	08/06/02	10.66	7	8	2	7.0	3.0	7.0
Commissary/PX	600GW102	08/06/02	10.10	7	8	2	7.0	3.0	7.0
Commissary/PX	600GW103	08/05/02	10.31	7	8	2	6.5	3.0	6.5
Commissary/PX	600GW104	08/06/02	10.48	7	8	2	7.0	3.0	7.0
Commissary/PX	600GW105	08/05/02	17.64	10	8	2	8.0	3.0	8.0
Commissary/PX	600GW106	08/05/02	16.04	8	8	2	8.0	3.0	8.0
Commissary/PX	600GW107	08/02/02	16.76	8	8	2	8.0	3.0	8.0
Commissary/PX	600GW108	08/02/02	12.29	8	8	2	8.0	3.0	8.0
Commissary/PX	600GW109	08/05/02	11.67	8	8	2	8.0	3.0	8.0
Commissary/PX	610GW101	07/27/01	9.91	6	8	2	6.0	3.0	6.0
Commissary/PX	610GW102	07/27/01	10.29	5.5	8	2	5.5	2.5	5.5
Commissary/PX	610GW103	07/27/01	11.13	7	8	2	7.0	3.0	7.0
Landfill E	DAEGW03	08/17/92	107.48	93	10	4	78.0	67.5	77.5
Landfill E	DAEGW04	10/21/92	94.38	65	10	4	64.0	54.0	64.0
Landfill E	DAEGW05	10/23/92	105.65	84.5	10	4	71.0	61.0	71.0
Landfill E	DAEGW06	12/16/94	119.26	41	10.25	4	40.6	30.6	40.6
Landfill E	DAEGW07	12/06/94	75.66	12	10.5	4	8.0	3.5	7.5
Landfill E	DAEGW08	12/07/94	71.66	32.5	10.5	4	32.5	22.0	32.0
Landfill E	DAEGW101	11/13/02	107.09	45.5	8	2	42.0	32.0	42.0
Landfill E	DAEGW102	11/13/02	116.72	35	8	2	30.0	20.0	30.0
Landfill E	DAEGW103	11/15/02	111.73	36	8	2	35.0	25.0	35.0

Table 3
Well Construction Details
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

Site Name	Well ID	Installation Date	Top of Casing Elevation (feet PLLW)	Total Depth of Boring (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Bottom of Casing (depth in feet)	Top of Screen (depth in feet)	Bottom of Screen (depth in feet)
Landfill E	DAEGW104	11/14/02	120.28	35	8	2	42.0	32.0	42.0
Landfill E	DAEPZ101	11/15/02	113.83	36.5	8	2	29.0	19.0	29.0
Landfill E	DAEPZ102	11/14/02	110.09	41	8	2	34.0	24.0	34.0
Nike Facility	NKGW01	08/20/92	278.38	48	10.5	4	48.0	37.5	47.5
Nike Facility	NKGW02	12/12/94	312.00	20.5	12.25	4	20.5	10.0	20.0
Nike Facility	NKGW03	12/12/94	334.60	19.5	10.5	4	15.15	8.5	13.5
Nike Facility	NKGW04	12/12/94	299.60	20.9	12.25	4	20.9	10.5	20.5
Nike Facility	NKGW05	12/13/94	284.20	34	12.25	4	34.0	23.6	33.6
Baker Beach Disturbed Area 1	BB1PZ100	04/21/05	107.48	17	7	2	15.5	10.2	15.5
Baker Beach Disturbed Area 1	BB1PZ101	04/22/05	68.36	10	7	2	9.5	4.2	9.5
Baker Beach Disturbed Area 3	BB3GW100	12/06/04	193.84	36.5	8	2	36.0	26.0	36.0
Baker Beach Disturbed Area 3	BB3GW101	12/06/04	158.28	31.25	8	2	25.0	15.0	25.0
Baker Beach Disturbed Area 3[1]	BB3PZ101	12/13/04	156.97	48	8	2	18.0	3.0	18.0
Baker Beach Disturbed Area 3[1]	BB3PZ102	03/01/06	73.18	6.5	3	2	6.5	0.0	6.5
Baker Beach Disturbed Area 3[2]	BB3SW100	12/08/04	67.34	2.5	8	2	2.5	-1.89	2.5
Baker Beach Disturbed Area 3[2]	BB3SW101	12/08/04	78.98	3	8	2	3.0	-1.00	3.0
Baker Beach Disturbed Area 3[2]	BB3SW102	12/08/04	115.39	2.5	8	2	2.5	-2.19	2.5
Battery H-W	BHWGW01	07/21/92	178.04	29	10.5	4	28.8	18.3	28.3
Battery H-W	BHWGW04	07/22/92	197.73	31	10.25	4	27.7	17.2	27.2
Battery H-W	BHWGW05	08/05/92	202.95	36.5	10.5	4	36.0	25.5	35.5
Battery H-W	HWGW100	07/13/00	209.68	31	8	2	31.0	20.0	30.0
Battery H-W	HWGW101	07/12/00	214.24	31	8	2	31.0	20.0	30.0
Battery H-W	HWGW102	07/12/00	211.44	40	8	2	37.0	26.0	36.0
Fill Site 6	LF6GW100	07/11/00	28.73	23	8	2	23.0	12.0	22.0
Fill Site 6	LF6GW101	07/10/00	27.03	25	8	2	25.0	14.0	24.0
Fill Site 6	LF6GW103	07/11/00	18.41	26	8	2	26.0	15.0	25.0
Fill Site 6	LF6GW104	11/16/05	25.74	25	8	2	25.0	10.0	25.0
Fill Site 6	LF6GW105	11/16/05	41.97	30	8	2	30.0	20.0	30.0
Fill Site 6	LF6GW106	11/17/05	25.69	25	8	2	25.0	10.0	25.0
Building 215	215GW01	10/29/90	50.45	46	11	4	44.67	34.17	44.17
Building 215	215GW02	11/05/90	46.96	41	10	4	40.5	30.0	40.0
Building 215	215GW03	11/06/90	47.58	40.5	10	4	39.5	29.0	39.0
Building 1065	1065PZ1A	04/16/97	13.30	9	8	2	9.0	4.0	8.0
Building 1065	1065PZ1B	04/16/97	13.31	22	8	2	22.0	16.0	21.0
Building 1065	1065PZ2A	04/17/97	12.82	9	8	2	9.0	3.0	8.0
Building 1065	1065PZ2B	04/17/97	15.56	20	8	2	20.0	16.0	19.5
Building 1065	1065PZ3A	04/17/97	23.96	12	8	2	12.0	8.0	11.0
Building 1065	1065PZ3B	04/18/97	23.65	26	8	2	26.0	22.0	25.0
Building 1065	1065PZ4A	04/18/97	14.19	12	8	2	12.0	6.0	11.0
Building 1065	1065PZ4B	04/18/97	14.45	23	8	2	23.0	18.0	22.0
Building 1065[3]	1065PZ5AR	10/01/02	17.38	9.3	8	2	9.0	4.0	9.0
Building 1065	1065PZ5B	04/21/97	17.34	26	8	2	26.0	21.0	25.0
Building 1065	1065PZ6A	04/23/97	26.19	22	8	2	22.0	14.0	21.0
Building 1065	1065PZ6B	04/24/97	26.36	27	8	2	27.0	24.5	26.5
Building 1065	1065PZ7A	04/22/97	16.11	12	8	2	12.0	4.0	11.0
Building 1065	1065PZ7B	04/22/97	15.73	25	8	2	25.0	17.0	24.0
Building 1065	1065MW9A	09/30/02	13.31	15.5	8	2	13.3	3.0	13.0
Building 1065	1065MW9B	09/30/02	13.39	32	14/8	2	32.0	26.0	32.0
Building 1065	1065MW10A	09/25/02	17.33	14	8	2	13.4	6.0	13.0
Building 1065	1065MW10B	09/24/02	17.40	28	14/8	2	28.0	22.0	28.0
Building 1065	1065MW11A	10/01/02	23.61	15.5	8	2	15.0	8.0	15.0

Table 3
Well Construction Details
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

Site Name	Well ID	Installation Date	Top of Casing Elevation (feet PLLW)	Total Depth of Boring (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Bottom of Casing (depth in feet)	Top of Screen (depth in feet)	Bottom of Screen (depth in feet)
Building 1065	1065MW11B	10/01/02	23.43	31.5	14/8	2	30.0	23.0	30.0
Building 1065	1065MW101	07/30/04	13.06	11	8	2	10.0	4.5	9.5
Building 1065	1065MW102	07/30/04	12.83	13	8	2	7.5	4.5	7.5
Building 207/231	207GW03	02/02/98	9.98	25	8.5	2	23.5	13.0	23.0
Building 207/231	231GW06	10/24/90	13.86	25	11	4	23.7	13.3	23.3
Building 207/231	231GW09	10/02/91	24.28	23.4	10	4	21.0	10.5	20.5
Building 207/231	231GW10	10/02/91	11.37	18	10	4	9.0	4.5	8.5
Building 207/231	231GW11	10/03/91	11.11	13	10	4	9.5	4.5	9.5
Building 207/231	231GW13	01/10/94	13.70	44	10	4	44.0	33.5	43.5
Building 207/231	231GW15	01/11/95	11.00	20	10.5	4	20.0	14.5	19.5
Building 207/231	231GW16	03/01/95	10.80	8.5	10.5	4	8.5	4.5	8.5
Building 207/231	231GW17	02/28/95	12.50	35.5	10.5	4	35.5	25.0	35.0
Building 207/231	231GW18	02/28/95	12.30	18.5	10.5	4	18.8	15.0	18.3
Building 207/231	231GW19	02/28/95	12.20	9.5	10.5	4	9.8	4.5	9.3
Building 207/231	231GW20	02/28/95	13.30	40.5	10.5	4	40.5	30.0	40.0
Building 207/231	231GW21	03/01/95	13.50	9.1	10.5	4	9.0	4.8	8.8
Building 207/231	231GW22	03/18/97	15.88	10.5	10	4	10.0	3.7	9.7
Building 207/231	231GW23	03/28/97	11.84	8.5	10	4	8.0	3.7	7.7
Building 207/231	231GW24	03/21/97	11.63	9	10	4	8.0	2.7	7.7
Building 207/231	231GW25	03/21/97	12.45	11	10	4	10.5	3.2	10.2
Building 207/231	231GW26	03/17/97	16.13	24.5	10	4	24.0	13.7	23.7
Building 207/231	231GW27	03/28/97	20.32	26.5	10	4	26.0	18.7	25.7
Building 207/231	231GW28	03/28/97	12.03	12	10	4	11.5	7.2	11.2
Building 207/231	231GW29	03/31/97	11.11	18.5	10	4	18.0	14.7	17.7
Building 207/231	231GW30	03/31/97	12.68	10	10	4	9.5	4.2	9.2
Building 207/231	231PZ01	01/15/98	15.47	10	2	1	10.0	2.0	10.0
Building 207/231	231PZ02	01/15/98	15.13	9	2	1	9.0	2.0	9.0
Building 207/231	231PZ03	01/15/98	13.95	9.1	2	1	9.1	2.1	9.1
Building 207/231	231PZ04	01/15/98	13.60	9.3	2	1	9.3	2.3	9.3
Building 207/231	OW-1 [4]	06/27/02	TBD	31	8	2	30.12 [5]	24.87	29.84
Graded Area 9	LF9GW100A	06/16/00	247.19	36	8	2	35.0	25.0	35.0
Graded Area 9	LF9GW100B	06/20/00	246.46	18.5	8	2	18.0	8.0	18.0
Graded Area 9	LF9GW101	06/16/00	234.95	45	8	2	40.0	29.0	39.0
Graded Area 9	LF9GW102	06/19/00	235.86	35.5	8	2	35.5	25.0	35.0
Building 1027	1027MW01	05/11/95	23.10	18.5	10.25	4	18.0	7.5	17.5
Building 1027	1027MW03	02/27/95	23.57	17.5	10.25	4	17.5	7.0	17.0
Upgradient	UBR01GW01	02/24/99	164.71	55	8	2	55.0	45.0	55.0
Upgradient	UBR02GW01	02/25/99	253.39	48.5	8	2	48.5	48.0	33.0
Upgradient	UBR02GW02	02/26/99	253.56	29.5	8	2	29.0	24.0	29.0
Upgradient	UBR03GW01	02/23/99	171.22	75	8	2	65.5	50.0	65.0
Upgradient	UBR03GW02	02/24/99	170.96	36.5	8	2	36.5	31.0	36.0
Tennessee Hollow	TH-1	09/14/93	80.76	40	8.5	2	40.0	30.0	30.0
Tennessee Hollow	TH-2	09/15/93	111.26	70	8.5	2	70.0	60.0	70.0
Tennessee Hollow	TH-3	09/14/93	64.68	30	8.5	2	30.0	20.0	30.0
Tennessee Hollow	TH-4	09/15/93	44.59	16.5	8.5	2	15.0	10.0	15.0
Tennessee Hollow	PGFGW100	02/04/02	133.71	53.5	12	2	53.0	43.0	53.0
Tennessee Hollow	10GW100	02/04/02	76.88	58.5	12	2	58.0	38.0	58.0

Table 3
Well Construction Details
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

Site Name	Well ID	Installation Date	Top of Casing Elevation (feet PLLW)	Total Depth of Boring (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Bottom of Casing (depth in feet)	Top of Screen (depth in feet)	Bottom of Screen (depth in feet)
Landfill 10	LF10GW01	08/26/94	115.59	18	12	4	17.5	8.5	17.5
Landfill 10	LF10GW02	08/25/94	105.67	12	12	4	11.5	6.5	11.5
Landfill 10	LF10GW03	09/01/94	180.80	54	12	4	52.0	42.0	52.0
Landfill 10	LF10GW100	11/19/02	175.30	55	8	2	55.0	45.0	55.0
Golf Course	300GW01	03/22/99	304.21	40	8	2	40.0	30.0	40.0

Footnotes
1 - BB3PZ101 was formerly named BB3SW103
2 - Note BBDA 3 fixed monitoring points
3 - Piezometer construction details for 1065PZ5AR are based on narrative description, last paragraph of Section 4.6, *Interim Data Report, Building 1065 Area, Presidio of San Francisco, California , February 19, 2003,* by MACTEC.
4 - Well construction details for OW-1 are from a .pdf boring log (10-14-2003 E:\Backups\OW-1.bor) provided by the Trust via email on 14 October 2003.
5 - OW-1 total depth was reported as 29.12 feet in a .pdf boring log (10-14-2003 E:\Backups\OW-1.bor) provided by the Trust via email on 14 October 2003. Based on screen interval, this value was assumed to be in error and was increased to 30.12.
6 - All well construction details for the Doyle Drive wells were measured from boring logs and converted from metric units as reported in Attachment A to the *Request for Authorization to Perform a Aquifer Testing near Building 230 at the Presidio, San Francisco,* by Baseline Environmental Consulting, 1 April 2002. Boring logs do not indicate sand trap or presence of end caps. Therefore, the bottom of casing is the same as the bottom of the screened interval.
7 - Borehole diameter was not reported for Doyle Drive wells on boring logs included as Attachment B to the *Request for Authorization to Perform a Aquifer Testing near Building 230 at the Presidio, San Francisco* , by Baseline Environmental Consulting, 1 April 2002. Boring method described as "rotary wash" without reference to boring diameter in the *Data Report, Piezometer Installation and Development, Doyle Drive Reconstruction Project, San Francisco,* by Baseline Environmental Consulting, 11 April 2001.

NR - Not reported
PLLW - Presidio Lower Low Water datum
TBD - To be determined

Table 4
Groundwater Purge Volume Calculations
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

Well Borehole Diameter (inches)	Well Casing Inside Diameter (inches)	Borehole Annular Volume (gallons/foot)	Well Casing Volume (gallons/foot)	Volume of Liquid in 1-foot Well Section (gallons)
2.1	0.75	0.021	0.0031	0.070
2	1	0.016	0.0055	0.077
6	2	0.174	0.0218	0.555
7	2	0.245	0.0218	0.714
8	2	0.327	0.0218	0.897
8	4	0.262	0.0872	1.240
8.5	2	0.372	0.0218	0.998
10	4	0.458	0.0872	1.680
10.25	4	0.486	0.0872	1.742
10.5	4	0.514	0.0872	1.805
11	4	0.572	0.0872	1.937
12	4	0.698	0.0872	2.218

Note
See Groundwater Sampling Standard Operating Procedure No. 002 in the *Field Sampling Plan, Presidio Groundwater Monitoring Project* (Treadwell & Rollo, 2001a) for complete equations for calculating borehole volumes.

Table 5
Analytical Plan Summary
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

Analyte	Laboratory Method	Container Type and Volume [1]	Preservative [2]	Holding Time [1]
TPH as gasoline (carbon range C7-C12)	Modified EPA 8015B	3 x 40 mL VOAs	HCl	14 Days
TPH as Stoddard Solvent (carbon range C7-C12)	Modified EPA 8015B	3 x 40 mL VOAs (C&T) 2 x 1L Amber (CAS)	HCl	14 Days
TPH as diesel [3] (carbon range C12-C24)	Modified EPA 8015B	1 x 1L Amber 2 x 1L Amber (CAS)	-	14 Days Extract
TPH as fuel oil [3] (carbon range C24-C36)	Modified EPA 8015B	1 x 1L Amber 2 x 1L Amber (CAS)	-	14 Days Extract
VOCs	EPA 8260B	3 x 40 mL VOAs	HCl	14 Days
VOCs (TCE only)	EPA 8260B	3 x 40 mL VOAs	HCl	14 Days
BTEX	EPA 8021B	2 x 40 mL VOAs	HCl	14 Days
PAHs	EPA 8310	2 x 1L Ambers	-	7 Days Extract
SVOCs	EPA 8270C	2 x 1L Ambers	-	7 Days Extract
OCP / PCBs	EPA 8081/8082	2 x 1L Ambers	-	7 Days Extract
Chlorinated Herbicides	EPA 8151A	2 x 1L Ambers	-	7 Days Extract
Arsenic (III and V) Speciation	EPA 1632 Mod	1 x 250 mL Plastic	HCl	28 Days
Mercury	EPA 7470	1 x 500 mL Plastic	HNO3	28 Days
Dissolved Metals (ICP) [4]	EPA 6010	1 x 500 mL Plastic	HNO3	6 Months
Dissolved Metals (ICP/MS) [4]	EPA 6020	1 x 500 mL Plastic	HNO3	6 Months
Dissolved Gases	RSK 175	3 x 40 mL VOAs	HCl	14 Days
Hexavalent Chromium	EPA 7196A	1 x 250 mL Plastic	-	24 Hours
Dissolved Lead [4]	EPA 7470	1 x 500 mL Plastic	HNO3	28 Days
Cyanide	EPA 335.2	1 x 1L Plastic	NaOH	14 Days
Sulfide	EPA 376.2	1 x 1L Plastic	NaOH+ZnOAc	7 Days
TDS [5]	EPA 160.1	1 x 1L Plastic	-	7 Days
TOC	EPA 415.2	3 x 40 mL VOAs	H_2SO_4	28 Days
TSS [5]	EPA 160.2	1 x 1L Plastic	-	7 Days
Perchlorate	EPA 314.0	1 x 250 mL Plastic	-	28 Days
NDMA	EPA 1625	2 x 1L Ambers	-	7 Days Extract
1,4-dioxane	EPA 8270C	2 x 1L Ambers	-	7 Days Extract
PBDE	EPA 1614	3 x 1L Ambers	-	7 Days Extract
General Chemistry				
Alkalinity [5]	EPA 310.1	1 x 1L Plastic	-	28 Days
Bicarbonate [5]	EPA 310.1	1 x 1L Plastic	-	28 Days
Carbonate [5]	EPA 310.1	1 x 1L Plastic	-	28 Days
Chloride [5]	EPA 300.0	1 x 1L Plastic	-	28 Days
Fluoride [5]	EPA 300.0	1 x 1L Plastic	-	28 Days
Nitrate as Nitrogen / Nitrite as Nitrogen [5]	EPA 300.0	1 x 1L Plastic	-	48 Hours
Nitrate as Nitrogen/ Nitrite as Nitrogen	EPA 353.2	1 x 125 mL Plastic	H_2SO_4	28 Days
Sulfate [5]	EPA 300.0	1 x 1L Plastic	-	28 Days

Notes
1 - Minimum sample volumes and holding times as specified by the project laboratory Curtis and Tompkins.
2 - All samples will be placed on ice and kept at an EPA prescribed temperature of 4 degrees Celsius.
3 - This analysis includes silica gel cleanup.
4 - Field filtration to be performed in the field using a 0.45 micron filter.
5 - All of these analyses can be taken from the same 1L plastic container.

Acronyms
BTEX - Benzene, Toluene, Ethylbenzene, and Xylenes
ICP - Inductively Coupled Plasma
ICP/MS - Inductively Coupled Plasma with Mass Spectography confirmation
NDMA - N-nitrosodimethylamine
OCPs - Organochlorine Pesticides
PAHs - Polycyclic Aromatic Hydrocarbons
PBDE - Polybrominated diphenyl ether
PCBs - Polychlorinated Biphenyls
SVOCs - Semi-Volatile Organic Compounds
TCE - Trichloroethene
TDS - Total Dissolved Solids
TOC - Total Organic Carbon
TPH - Total Petroleum Hydrocarbons
TSS - Total Suspended Solids
VOCs - Volatile Organic Compounds

- = No preservative

Table 6
Water Quality Criteria and Analytical Reporting Limits
Presidio Groundwater Monitoring Program
Presidio of San Francisco, California

Compounds of Potential Concern (COPC)	Water Quality Criteria [1]				QAPP Analytical Reporting Limit [2] (µg/L)	Project Laboratory Reporting Limit (µg/L)
	Surface Water (a) (µg/L)	Freshwater Seep (b) (µg/L)	Saltwater Protection Zone (c) (µg/L)	Drinking Water Cleanup Level (d) (µg/L)		
Inorganic Chemicals						
Antimony	14 (e)	- (f)	-	6	2.0	1.0
Arsenic	190	190 (g)	36	10	2.0	1.0
Barium	-	-	-	1,000	1.0	1.0
Beryllium	-	-	-	4	1.0	1.0
Cadmium	1.1 (h)	1.1 (h)	9.3	5	1.0	1.0
Chloride	-	-	-	250,000	-	100
Chromium (III)	180 (h); (i)	180 (h); (i)	-	50	-	10
Hexavalent Chromium	11	11	50	-	10	10
Chromium (Total)	180 (h); (i)	180 (h); (i)	50	50	2.0	1.0
Cobalt	-	-	-	-	1.0	1.0
Copper	11.8 (h)	11.8 (h)	2.9	1,000 (j)	2.0	1.0
Cyanide	5.2	5.2	5	200	-	10
Lead	3.2 (h)	3.2 (h)	5.6	15 (k)	5.0	3.0
Mercury	0.012 (l)	0.012 (l)	0.025	2	-	0.2
Nickel	158 (h)	158 (h)	7.1	100	2.0	1.0
Selenium	5 (m)	5 (m)	71	50	5.0	5.0
Silver	4.1 (h); (n)	4.1 (h); (n)	2.3 (n)	**50**	1.0	1.0
Thallium	1.7	-	-	2	5.0	1.0
Vanadium	-	-	-	-	10	10
Zinc	106 (h)	106 (h)	58	5,000	2.0	1.0

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Presidio Groundwater Monitoring Program
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Compounds of Potential Concern (COPC)	Water Quality Criteria [1]				QAPP Analytical Reporting Limit [2] (µg/L)	Project Laboratory Reporting Limit (µg/L)
	Surface Water (a) (µg/L)	Freshwater Seep (b) (µg/L)	Saltwater Protection Zone (c) (µg/L)	Drinking Water Cleanup Level (d) (µg/L)		
Semivolatile Organic Compounds (by EPA method 8310 except where noted)						
Acenaphthene	1,200	-	-	-	5.0	5
Acenaphthylene	-	-	-	-	2.0	10
Anthracene	9,600	-	-	770 (o)	0.2	0.5
Benzo(a)anthracene	0.0044 (p)	-	-	0.1	0.2	0.1
Benzo(a)pyrene	0.0044 (p)	-	-	0.2	0.2	0.1
Benzo(b)fluoranthene	0.0044 (p)	-	-	0.2	0.2	0.2
Benzo(g,h,i)perylene	-	-	-	**150**	0.2	0.2
Benzo(k)fluoranthene	0.0044 (p)	-	-	2	0.2	0.1
Benzyl Alcohol	-	-	-	-	10	10 (EPA 8270)
Bis(2-ethylhexyl)phthalate	1.8	-	-	4	10	10 (EPA 8270)
Chrysene	0.0044 (p)	-	-	20	0.2	0.1
Dibenzo(a,h)anthracene	0.0044 (p)	-	-	-	0.5	0.2
Dibenzofuran	-	-	-	-	10	10 (EPA 8270)
Fluoranthene	300	-	-	300	0.2	0.4
Fluorene	1,300	-	-	300	1.0	1
Indeno(1,2,3-c,d)-pyrene	0.0044 (p)	-	-	-	0.2	0.14
2-methylnaphthalene	-	-	-	-	10	10 (EPA 8270)
Naphthalene	-	-	-	300	5.0	5
n-nitrosodiphenylamine	5	-	-	-	10	10 (EPA 8270)
Pentachlorophenol	**0.28**	-	7.9	**1**	50	10 (EPA 8270)
Phenanthrene	-	-	-	230	1.0	0.5
Phenol	21,000	-	-	**1**	10	10
Polycyclic Aromatic Hydrocarbons	0.031 (p)	-	0.031	**26**	-	0.1 to 10
Pyrene	960	-	-	230	0.2	0.2

Table 6
Water Quality Criteria and Analytical Reporting Limits
Presidio Groundwater Monitoring Program
Presidio of San Francisco, California

Compounds of Potential Concern (COPC)	Water Quality Criteria [1]				QAPP Analytical Reporting Limit [2] (µg/L)	Project Laboratory Reporting Limit (µg/L)
	Surface Water (a) (µg/L)	Freshwater Seep (b) (µg/L)	Saltwater Protection Zone (c) (µg/L)	Drinking Water Cleanup Level (d) (µg/L)		
Volatile Organic Compounds						
Acetone	-	-	-	-	-	10
Bromodichloromethane	0.56	-	-	80	1.0	0.5
2-Butanone (MEK)	-	-	-	-	-	10
Carbon Tetrachloride	0.25	-	-	0.5	0.5	0.5
Chlorodibromomethane	0.40	-	-	80	-	0.5
Chlorobenzene	680	-	-	70	2.0	0.5
Chloroform	-	-	-	80	0.5	0.5
Chloromethane	-	-	-	-	1.0	1.0
1,4-dichlorobenzene	400		-	**5**	2.4	0.5
1,2-dichloroethane	0.38	-	-	0.5	0.5	0.5
1,1-dichloroethene	**0.057**	**-**	**-**	**6.0**	**0.5**	**-**
cis-1,2-dichloroethene	**-**	**-**	**-**	**6.0**	**-**	**0.5**
Methylene Chloride	4.7	-	-	5	4.5	5.0
Tetrachloroethene	0.8	-	-	5	0.5	0.5
1,2,3-trichlorobenzene (s)	**-**	**-**	**-**	**70**	**-**	**-**
1,2,4-trichlorobenzene	**-**	**-**	**-**	**70**	**10**	**-**
1,1,1-trichloroethane	-	-	-	200	0.5	0.5
Trichloroethene	2.7	-	-	5	0.5	0.5
Trichlorofluoromethane	-	-	-	**150**	10	0.5
Petroleum Hydrocarbons and Constituents						
Gasoline Range Hydrocarbons	443	443 (q)	1.2	770	-	50
Diesel Range Hydrocarbons	-	-	2.2	880	-	50
Fuel Oil Range Hydrocarbons	-	-	2.2	1,200	-	300
Motor Oil Range Hydrocarbons	-	-	-	1,200	-	300
Benzene	1.2	463	0.51	1	-	0.5
Ethylbenzene	845	845	0.043	700	-	0.5
Toluene	490	490	1.0	150	-	0.5
Tetraethyl Lead	-	-	-	-	-	100
Total Xylenes	318	318	0.13	1,750	-	0.5
Methyl t-butyl ether (MTBE)	**-**	**-**	4.4	**13**	**2.0**	**0.5**

Table 6
Water Quality Criteria and Analytical Reporting Limits
Presidio Groundwater Monitoring Program
Presidio of San Francisco, California

Compounds of Potential Concern (COPC)	Water Quality Criteria [1]				QAPP Analytical Reporting Limit [2] (µg/L)	Project Laboratory Reporting Limit (µg/L)
	Surface Water (a) (µg/L)	Freshwater Seep (b) (µg/L)	Saltwater Protection Zone (c) (µg/L)	Drinking Water Cleanup Level (d) (µg/L)		
PCBs, Pesticides, and Herbicides						
Polychlorinated Biphenyls	0.00017 (r)	0.014 (r); (t)	0.03	0.5	-	0.5-1.0
Aldrin	0.00013 (r)	**3**	1.3	-	-	0.05
Chlordane	0.00057 (r)	0.0043 (r)	0.004	0.1	-	0.5
2,4-D	-	-	-	**70**	-	1.0
4,4'-DDD	0.00083 (p)	-	0.001 (t)	-	-	0.1
4,4'-DDE	0.00059 (p)	-	0.001 (t)	-	-	0.1
4,4'-DDT	0.00059 (p)	0.001 (p)	0.001 (t)	-	-	0.1
Dicamba	-	-	-	-	-	1.0
Dieldrin	0.00014 (p)	0.056 (p)	0.0019 (t)	0.5 (s)	-	0.1
Endosulfan	**0.056**	0.056 (p)	0.0087 (t)	-	-	0.05
Endrin	**0.36**	0.036 (p)	0.0023 (t)	2	-	0.1
Endrin Aldehyde (s)	**0.36**	**0.036 (p)**	0.0023 (t)	**2**	-	**0.05**
Endrin Ketone (s)	**0.36**	**0.036 (p)**	0.0023 (t)	**2**	**0.1**	**0.05**
beta-BHC	**0.014**	-	-	**0.3**	**0.05**	**0.05**
gamma-BHC (Lindane)	0.019 (p)	-	0.16	0.2	-	0.05
Heptachlor	0.00021 (p)	0.0038 (p)	0.0036 (t)	0.01 (p)	-	0.1
Heptachlor Epoxide	0.00021 (p)	0.0038 (p)	0.0036 (t)	**0.01**	-	0.05
Isodrin	**0.0013**	**3**	1.3	-	-	0.05
MCPP	-	-	-	-	-	500
Methoxychlor	-	-	-	40	-	0.5

Notes

Edits shown in **bold** text were made on 1 April 2003 based on updated version of Table 7-6 of the QAPP, transmitted from Chris Nelson on 14 March 2003.

1 Water Quality Criteria is from Table 7-6 of the Cleanup Levels Document (EKI, 2002).

2 These are limits established in the QAPP (Tetra Tech, 2001).

- = not established

(a) Cleanup levels are based upon concentrations of COPCs that result in chronic toxicity to aquatic organisms, or to humans through consumption of water and fish, whichever is more stringent. Cleanup levels apply to surface water and groundwater that may exfiltrate directly to surface water, such as Lobos Creek, Mountain Lake, and the Tennessee Hollow Riparian Corridor upon enhancement.

Table 6
Water Quality Criteria and Analytical Reporting Limits
Presidio Groundwater Monitoring Program
Presidio of San Francisco, California

Notes (continued)

(b) Cleanup levels are based upon concentrations of COPCs that result in chronic toxicity to aquatic organisms. Cleanup levels apply to seeps and to groundwater that emerges as freshwater seeps.

(c) Cleanup levels are based upon concentrations of COCs that result in chronic toxicity to marine organisms. Cleanup levels apply to marine or salt water environments.

(d) Cleanup level listed is a promulgated or proposed federal Maximum Contaminant Level (MCL), or promulgated or proposed MCL or action level specific to the State of California. MCLs obtained from U.S. EPA Region IX, *Drinking Water Standards and Health Advisories Tables* , dated February 2000. Drinking water cleanup levels apply to groundwater and surface water at the Presidio.

(e) Cleanup level obtained from Title 40 of the Code of Federal Regulations, Part §131.38, *Establishment of Numerical Criteria for Priority Toxic Pollutants for the State of California* , or California Toxics Rule (CTR), promulgated 18 May 2000.

(f) Hyphen indicates that a cleanup level is not specified in Presidio Trust QAPP.

(g) Cleanup level obtained from California Environmental Protection Agency, Regional Water Quality Control Board, San Francisco Bay Region, *Water Quality Control Plan, San Francisco Bay Basin. San Francisco Bay Region* ("Basin Plan"), dated 21 June 1995.

(h) Cleanup level is a function of hardness. Value shown is based on a hardness of 100 mg/L as calcium carbonate.

(i) Cleanup level is expressed as a function of the water-effects ratio, as defined in the CTR.

(j) Cleanup level listed is a secondary MCL. Secondary MCLs apply to chemicals in drinking water that adversely affect its odor, taste, or appearance and therefore cause people to discontinue using the water.

(k) MCL based upon treatment technique. Treatment technique and public notification required at action level of 15 µg/L for lead.

(l) Cleanup level for mercury is 0.012 µg/L. However, this level is below the typical analytical method reporting limit of 0.025 µg/L. A cleanup objective of 0.012 µg/L is desirable, but attainment can only be determined at the analytical method reporting limit.

(m) Cleanup level for COC in total recoverable form.

(n) Cleanup level for COC corresponds to instantaneous maximum value.

(o) Cleanup level obtained from Montgomery Watson, *Fuel Product Action Level Development Report, Presidio of San Francisco, California* ("FPALDR").

Table 6
Water Quality Criteria and Analytical Reporting Limits
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

Notes (continued)

(p) This level is below the typical analytical method reporting limit range of 0.1 to 10 µg/L for semivolatile organic compounds. Cleanup level listed is desirable, but attainment can only be determined at the analytical method reporting limit. Cleanup level is established at the typical analytical method reporting limit range for semivolatile organic compounds assuming no matrix interference. In the event of matrix interference, actual method reporting limits determining compliance with cleanup levels may be raised.

(q) Cleanup level obtained from Montgomery Watson, *Development of Point of Compliance Concentrations (POCCs) for Gasoline in Surface Waters and Sediments of the Proposed Freshwater Stream, Presidio of San Francisco, California* , dated 4 May 1999. Numerical values based upon bioassay studies performed by RWQCB and review of toxicological data published in scientific literature.

(r) Cleanup level applies to total PCBs.

(s) Cleanup level is State of California action level for drinking water.

(t) This level is below the typical analytical method reporting limit range of 0.05 to 0.5 µg/L for PCBs and pesticides. Cleanup level listed is desirable, but attainment can only be determined at the analytical method reporting limit.

Table 7
Duplicate and Quality Control Duplicate Sampling Schedule
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

					Analytical Requirements																					
Site Name	**Primary Sample Identification**	**C&T Duplicate**	**QC Duplicate**	**Date Sampled**	NDMA	General Chemistry Parameters	Total Organic Carbon	Dissolved Gases	MBAS	Total Hardness	Molybdenum	Dissolved Metals [1]	Total Metals	Total Dissolved Solids	Organo-chlorine Pesticides	PCBs	VOCs	BTEX / MTBE	PAHs	SVOCs	Sulfide	Cyanide	Chlorinated Herbicides	TPH-G [2]	TPH-D [2]	TPH-FO [2]	TPH-Stoddard Solvent
					EPA 1625	various	EPA 9060	RSK 175	E425.1			various	various		EPA 8080	EPA 8080	EPA 8260 modified	EPA 8021B or 8020	EPA 8310	EPA 8270	EPA 376.2	EPA 9012 modified	EPA 8150	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A	EPA 8015
First Quarter 2006																											
Building 900s Area	979GW116	DUP0314061A	No	03/14/06													1							1	1	1	
Building 900s Area	**950GW108**	**DUP0309062A**	**950GW108CL**	**03/09/06**													**1**							**1**	**1**	**1**	
Landfill 8	LF08GW04	DUP0316064A	No	03/16/06		1						1 (23)		1	1	1	1		1		1	1					
Fill Site 5	**LF5GW104**	**DUP0307063B**	**LF5GW104CL**	**03/07/06**		**1**						**1 (23)**		**1**	**1**		**1**		**1**					**1**	**1**	**1**	
Building 1349	**1349MW102**	**DUP0307063C**	**1349MW102CL**	**03/07/06**		**1**								**1**	**1**									**1**	**1**	**1**	
Landfill 4	**LF4GW103**	**DUP0307063A**	**LF4GW103CL**	**03/07/06**		**1**						**1 (14)**		**1**		**1**											
Landfill E	**DAESP03**	**DUP0308063A**	**DAESP03CL**	**03/08/06**		**1**			**1**	**1**	**1**	**1 (22)**	**1 (22)**	**1**	**1**	**1**	**1**		**1**			**1**		**1**	**1**	**1**	
Fill Site 1	**LF01GW01**	**DUP0308063C**	**LF01GW01CL**	**03/08/06**		**1**						**1 (22)**		**1**								**1**					
Nike Missile Facility	NKGW04	DUP0320061A	No	03/20/06	1							1 (23)		1			1					1		1	1	1	
Baker Beach DA 3	**BB3SW104**	**DUP0308063B**	**BB3SW104CL**	**03/08/06**		**1**						**1 (22)**	**1 (22)**	**1**										**1**	**1**	**1**	
Comm/PX	600GW108	DUP0307061B	No	03/07/06		1	1					1 (14)		1			1		1		1			1	1	1	
Comm/PX	**610GW103**	**DUP0307061A**	**610GW103CL**	**03/07/06**		**1**	**1**					**1 (14)**		**1**				**1**			**1**			**1**	**1**	**1**	
Bldg 1065	**1065MW5AR**	**DUP0307062B**	**1065MW5ARCL**	**03/07/06**		**1**	**1**					**1 (15)**		**1**				**1**			**1**			**1**	**1**	**1**	
Bldg 1065	**1047MW101**	**DUP0307062A**	**1047MW101CL**	**03/07/06**		**1**						**1 (15)**		**1**			**1**				**1**			**1**			**1**
Bldg 1065	1065MW9A	DUP0309062B	No	03/09/06		1	1					1 (15)		1				1			1			1	1	1	
Bldg 231/207	**231GW21**	**DUP0308061A**	**231GW21CL**	**03/08/06**		**1**	**1**					**1 (14)**		**1**			**1**				**1**			**1**	**1**	**1**	
Bldg 231/207	231GW22	DUP0309061A	No	03/09/06		1	1					1 (14)		1			1				1			1	1	1	
Mini-CAP Areas	**1260GW102**	**DUP0309063A**	**1260GW102CL**	**03/09/06**														**1**	**1**					**1**	**1**	**1**	
Mini-CAP Areas	1213GW101	DUP0317062A	No	03/17/06													1		1					1	1	1	
Second Quarter 2006																											
Comm/PX	610GW103	DUP0523061A	No	05/23/06		1						1 (14)		1				1			1			1	1	1	
Baker Beach DA 3	BB3GW100	DUP0523063A	No	05/23/06		1						1 (22)		1										1	1	1	
Battery Howe/Wagner	**BHWGW01**	**DUP0525063A**	**BHWGW01CL**	**05/25/06**		**1**						**1 (22)**															
Building 1349	**1349MW100**	**DUP0524063A**	**1349MW100CL**	**05/24/06**		**1**						**1 (23)**		**1**	**1**		**1**		**1**					**1**	**1**	**1**	
Building 1065	**1065MW9A**	**DUP0524063B**	**1065MW9ACL**	**05/24/06**		**1**						**1 (15)**		**1**				**1**			**1**			**1**	**1**	**1**	
Mini-Cap Areas	**1213GW101**	**DUP05242006**	**1213GW101CL**	**05/24/06**		**1**						**1 (22)**					**1**		**1**					**1**	**1**	**1**	

Notes
1 - The table has been reformatted to one dissolved metals column. The number of dissolved metals proposed for analysis are denoted by parentheses. For example, Q (23) indicates the 23 metals list should be analyzed on a quarterly basis. The metals associated with each metals list are detailed below.
23 Metals List - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Th, V, and Zn.
22 Metals List - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Th, V, and Zn.
15 Metals List - Al, Sb, As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Pb, Ni and Zn.
14 Metals List - Al, As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Pb, Ni and Zn.
9 Metals List - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn.
8 Metals List - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn.
7 Metals List - As, Cr, Cd, Cu, Pb, Ni and Zn.
3 Metals List - Al, Fe, and Cr.
2 - TPH-G, TPH-D, TPH-FO: Total Petroleum Hydrocarbons as gasoline, diesel and fuel oil - EPA 3630A: Silica Gel Cleanup Step

Bold indicates samples that are duplicated at both the project and QC laboratories.

Table 8
Analytical Results for Equipment Rinsate Blanks
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

Sample ID	Sample Date	Total Alkalinity	Bicarbonate	General Chemistry Parameters [1]	Sulfide	Cyanide	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil [2] (Carbon Range C_{24}-C_{36})	All VOCs	TOC	Dissolved Ethane	Dissolved Ethene	Dissolved Methane	All Chlorinated Herbicides	All OCPs and PCBs	All PAHs	Dissolved Arsenic	Dissolved Arsenite (As III)	Dissolved Arsenate (As V)	Dissolved Iron	Dissolved Sodium	All Other Dissolved Metals	TDS
	Analytical Method	E310.1	E310.1	Various	E376.2	SW9012	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8260M	SW9060	RSK 175	RSK 175	RSK 175	SW8151A	SW8081A/ SW8082	SW8310	E1632	E1632	E1632	SW6010	SW6010	SW6010/ SW6020	E160.1
		(mg/L)	(mg/L)	--	(mg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	--	(mg/L)	(mg/L)	(mg/L)	(mg/L)	--	--	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(mg/L)
First Quarter 2006																								
937GW102RB101	03/13/06	NA	NA	NA	NA	NA	< 50	< 50	< 300	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
937GW105RB106	03/13/06	NA	NA	NA	NA	NA	< 50	< 50	< 300	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
979GW112RB116	03/14/06	NA	NA	NA	NA	NA	< 50	< 50	< 300	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HWGW101RB04	03/15/06	3.2	<1	ND	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	ND	NA
LF08GW02BRB03	03/16/06	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	< 100	1300 J	ND	NA
LF08GW06RB01	03/17/06	2.8	<1	ND	< 0.04	< 0.01	NA	NA	NA	ND	NA	NA	NA	NA	NA	ND	ND	<5	NA	NA	< 100	980	ND	220
Second Quarter 2006																								
937GW102RB101	05/25/06	< 1	< 1	ND	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	< 5	NA	NA	< 100	< 500	ND	NA

Notes
1 - General Chemistry Parameters include total alkalinity, bicarbonate, chloride, fluoride, nitrate, nitrite, sulfate, and total dissolved solids.
2 - TPH as fuel oil uses a motor oil standard for carbon range (C_{24}-C_{36}).
Table 11 identifies current and historical data qualifiers.

BTEX - benzene, toluene, ethylbenzene, and xylenes
MTBE - methyl tert-butyl ether
NA - Not analyzed
ND - Not detected above the laboratory reporting limit
TDS - total dissolved solids
TPH - total petroleum hydrocarbons
VOC - volatile organic compounds
mg/L - milligrams per liter
µg/L - micrograms per liter

Table 9
Analytical Results for Trip Blanks
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

Trip Blank Identification	Sample Date	All VOCs
	Analytical Method	SW8260M
First Quarter 2006		
TB0307061B	03/07/06	ND
TB0309061A	03/09/06	ND
TB0309063A	03/09/06	ND
TB0313063A	03/13/06	ND
TB0314061A	03/14/06	ND
TB0315063A	03/15/06	ND
TB0316063A	03/16/06	ND
TB0317061A	03/17/06	ND
TB0317062A	03/17/06	ND
TB0320063A	03/20/06	ND
TB0321063A	03/21/06	ND
Second Quarter 2006		
TB0524061ACL	05/24/06	ND
TB0524063A	05/24/06	ND
TB0525061A	05/25/06	ND

Notes
All results reported in micrograms per liter.
Table 11 identifies data qualifiers.

ND - Not detected above the laboratory reporting limit
VOCs - Volatile organic compounds

Table 10
Analytical Results for Source Water Blanks
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

Sample ID	Sample Date	General Chemistry Parameters						Total Hardness	Metals					VOCs					All OCPs and PCBs	All PAHs	All SVOCs	All Chlorinated Herbicides	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil [2] (Carbon Range C_{24}-C_{36})	Stoddard Solvent (C_7-C_{12})
		Alkalinity, Total	Bicarbonate	Chloride	Sulfate	TDS	All Other General Chemistry		Arsenic	Calcium	Sodium	Magnesium	All Other Metals [1]	Acetone	Bromo-dichloro-methane	Chloro-form	Toluene	All Other VOCs								
	Analytical Method	E310.1	E310.1	E300.0	E300.0	E160.1	Various	E130.2	E1632	SW6010/ SW6020/	SW6010/ SW6020/	SW6010/ SW6020/	SW6010/ SW6020/	SW8260B	SW8260B	SW8260B	SW8260M	SW8260B	SW8081A/ SW8082	SW8310	SW8270	SW8150	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
Source Water Blanks		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
First Quarter 2006																										
DW031606A [3]	03/13/06	250	250	< 0.2	< 0.5	60	ND	< 3.3	< 5	< 500	< 500	< 500	ND	< 10	0.7	7	< 0.5	ND	ND	ND	ND	ND	< 50	< 50	< 300	NA
DW031306B [4]	03/13/06	< 1	< 1	< 0.2	< 0.5	70	ND	< 3.3	< 5	< 500	< 500	< 500	ND	< 10	< 0.5	3.1	< 0.5	ND	ND	ND	ND	ND	< 50	< 50	< 300	NA
Second Quarter 2006																										
DW052506A [3]	05/25/06	8.9	< 1	0.26	4.9	5,600	ND	NA	< 5	3,600	< 500	910	ND	< 10	< 0.5	< 0.5	< 0.5	ND	ND	ND	ND	ND	< 50	< 50	< 300	< 50
DW053006B [4]	05/30/06	4	< 1	< 0.2	1.4	60	ND	NA	< 5	2,000	< 500	< 500	ND	< 10	< 0.5	< 0.5	< 0.5	ND	ND	ND	ND	ND	< 50	< 50	< 300	NA

Notes

1 - Metals include aluminum, arsenic, arsenite, arsenate, antimony, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, sodium, silver, selenium, thallium, vanadium, and zinc.

2 - TPH as fuel oil uses a motor oil standard for carbon range (C_{24}-C_{36}).

3 - Sample collected from source water tank on a field vehicle.

4 - Sample collected from the deionization system outlet at Blaine Tech Services, Inc. facility in San Jose, CA.

Table 11 identifies current and historical data qualifiers.

TDS - total dissolved solids
MBAS - methylene blue active substances
NA - Not analyzed
ND - Not detected above the laboratory reporting limit
OCPs - organochlorine pesticides
PAHs - polycyclic aromatic hydrocarbons
PCBs - polychlorinated biphenyls
SVOCs - semi-volatile organic compounds
TPH - total petroleum hydrocarbons
VOCs - volatile organic compounds
µg/L - micrograms per liter
mg/L - milligrams per liter

Table 11
Laboratory Qualifiers for Current and Historical Analytical Data
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

The following data validation qualifiers were used for analytical data generated beginning in the Second Quarter 2001. Multiple data qualifiers can be applied to individual sample results. These qualifiers are recommended in the October 1999 document titled *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*:

#	The continuing calibration verification (CCV) drifted outside the limits although the average CCV drift was within the limits per method requirements.
U	The analyte was analyzed for, but was not detected above, the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample, refer to the specific analytical report for the rationale behind the qualification.
J+	The analyte was positively identified; the associated numerical value is biased high due to a high surrogate recovery and should be considered an approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is biased low due to a low surrogate recovery and should be considered an approximate concentration of the analyte in the sample.
Jb	The analyte was identified below the laboratory reporting limit but above the laboratory method detection limit and QAPP-specified reporting limit.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a “tentative identification.”
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The current reported analytical data also includes the following laboratory supplied validation comments:

B	Analyte is found in the associated blank as well as in the sample.
C	Presence confirmed, but confirmation concentration differed by more than a factor of two.
H	Heavier hydrocarbons contributed to the quantitation.
HT-04	This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose.
HT-RA	This sample was originally analyzed within the EPA recommended hold time. Re-analysis for confirmation or dilution was performed past the recommended hold time. The results may still be used for their intended purpose.

ndp	Hydrocarbon reported does not match the pattern of the diesel standard.
L	Lighter hydrocarbons contributed to the quantitation.
Y	Sample exhibits a fuel pattern, which does not resemble standard.
Z	Sample exhibits unknown single peak or peaks.

Analytical data reported prior to the second quarter of 2001 have used the same data qualifiers described above, but have also used the validation qualifiers and comments Q, Rd, DR, D, B, G, P, d, j, k, z. Descriptions of these previously used validation qualifiers and comments are provided in the quarterly monitoring report corresponding to the sampling date shown in the analytical summary tables.

The following is a table of data validation qualifiers and comments used by Montgomery Watson for their previous Presidio groundwater monitoring work.

Data Validation Qualifiers:

J – Qualified as estimated U – Qualified as not detected R – Qualified as rejected

Data Validation Comments:

1. Qualified due to detected concentration in associated method blank sample.
2. Qualified due to detected concentration in associated trip blank sample.
3. Qualified due to detected concentration in associated filter blank sample.
4. Qualified due to detected concentration in associated equipment rinsate blank sample.
5. Qualified as positively biased due to surrogate recoveries above the established acceptance limits.
6. Qualified as negatively biased due to surrogate recoveries below the established acceptance limits.
7. Qualified due to surrogate recoveries outside the established acceptance limits; bias cannot be determined.
8. Qualified as positively biased due to MS/MSD recoveries above the established acceptance limits.
9. Qualified as negatively biased due to MS/MSD recoveries below the established acceptance limits.
10. Qualified due to MS/MSD recoveries outside the established acceptance limits; bias cannot be determined.
11. Qualified as positively biased due to LCS recoveries above the established acceptance limits.
12. Qualified as negatively biased due to LCS recoveries below the established acceptance limits.
13. Qualified due to LCS recoveries outside the established acceptance limits; bias cannot be determined.
14. Qualified as positively biased due to calibration nonconformances.
15. Qualified as negatively biased due to calibration nonconformances.
16. Qualified due to calibration nonconformances; bias cannot be determined.
17. Qualified as negatively biased due to holding time nonconformances.
18. Qualified as negatively biased due to sample receipt nonconformances.
19. Qualified as positively biased due to sample receipt nonconformances.
20. Qualified due to sample receipt nonconformances; bias cannot be determined.

21. Qualified as positively biased due to other criteria.
22. Qualified as negatively biased due to other criteria.
23. Qualified due to other criteria; bias cannot be determined.
24. Qualified due to detected concentration in associated source water sample.
25. Qualified due to chromatographic pattern of the sample does not match the calibration pattern.
26. Reported value determined by method of standard addition; bias cannot be determined.
27. Qualified as negatively biased due to post-digest spike recovery between 40% and 85%.
28. Estimated value; result is detected between the method detection limit (MDL) and the reporting limit.
29. Qualified due to holding times exceeded.
30. Qualified as estimated; compound is a common laboratory contaminant.
31. Reported value determined by GC/MS library search; compound is tentatively identified and quantitation is estimated.
32. Qualified data explained further in the report associated with the sampling event.
33. Qualified to field duplicate RPD outside of established limits; bias cannot be determined.
34. Final purge readings are not representative of site conditions. The reported readings are taken from earlier entries associated with that purge log.
35. Questionable field parameter results; readings do not appear to be representative of site conditions.

Table 12
Analytical Results for Purge and Decontamination Water
Presidio-wide Groundwater Monitoring Program
Presidio of San Francisco, California

Sample Name	Sample Date	Metals									Cyanide	Dissolved Sulfide	Total Oil & Grease	Phenolic Compounds	pH
		Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Silver	Zinc					
	Analytical Method	SW6020	SW6020	SW6020	SW6020	SW6010	SW7470	SW6020	SW6020	SW6020	SW9012	E376.2	E1664A	E420.1	SW9040B
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	--
Discharge Criteria		**4,000**	**500**	**5,000**	**4,000**	**1,500**	**50**	**2,000**	**600**	**7,000**	**1,000**	**500**	**300,000**	**23,000**	**6.0 - 9.5**
First Quarter 2006															
WT032906	03/29/06	5.4	< 1	< 10	4.7	< 3	< 0.2	< 20	< 1	22	< 0.01	< 0.04	NA	NA	7.4
Second Quarter 2006															
WT052506	5/25/2006	7.7	< 1	< 10	8.8	< 3	< 0.2	< 20	< 1	49	NA	< 0.04	NA	< 0.05	8.4

Note
Table 11 identifies current and historical data qualifiers.

µg/L - micrograms per liter
mg/L - milligrams per liter

FIGURES

N

1000 0 1000 Feet

LEGEND

- Presidio Base Map
- Presidio Boundary
- Topographic Contours (Contour Interval 10 feet)

GROUNDWATER BASIN AREAS

- Coastal Bluffs Groundwater Basin
- Crissy Field Groundwater Area
- Lobos Creek Groundwater Area
- Lobos Creek Groundwater Basin
- Marina Groundwater Basin
- Northeastern Groundwater Area
- West Valley Groundwater Area

Notes:
Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datum (topography): North American Vertical Darum, NAVD88

PRESIDIO MAP WITH SAMPLING AREAS AND GROUNDWATER BASINS

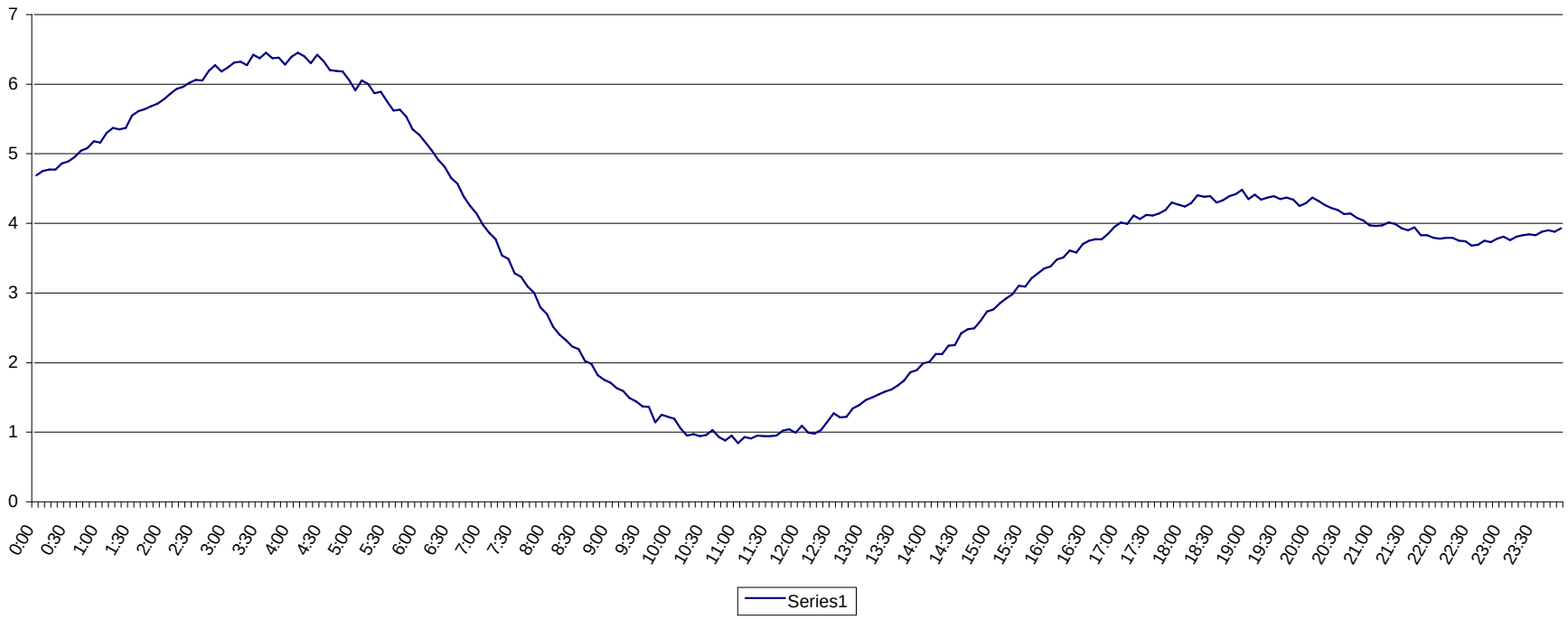
Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315
October 2006

FIGURE 1

Treadwell & Rollo 2893_04\FIG1_GW_BASINS.APR 10/2006



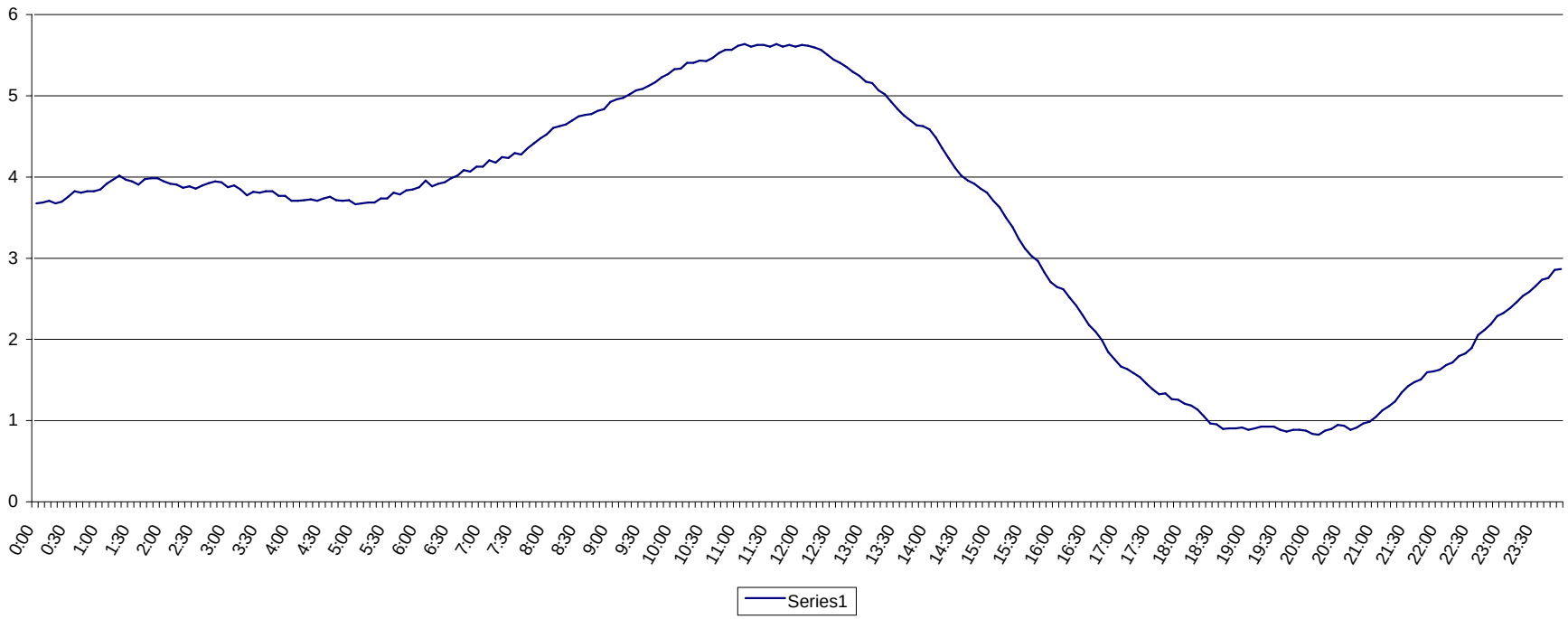
Notes:
Actual water level data were taken from:
http://tidesandcurrents.noaa.gov/station_retrieve.shtml?type=Historic+Tide+Data
Station Number '9414290' and converted to PLLW.
Water level magnitudes were collected by NOAA every six minutes.
NOAA - National Oceanographic and Atmospheric Administration
PLLW - Presidio Lower Low Water datum

TIDAL ELEVATIONS AT THE GOLDEN GATE TIDAL STATION ON 6 MARCH 2006

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
October 2006

FIGURE 2A



Notes:
Actual water level data were taken from:
http://tidesandcurrents.noaa.gov/station_retrieve.shtml?type=Historic+Tide+Data
Station Number '9414290' and converted to PLLW.
Water level magnitudes were collected by NOAA every six minutes.
NOAA - National Oceanographic and Atmospheric Administration
PLLW - Presidio Lower Low Water datum

TIDAL ELEVATIONS AT THE GOLDEN GATE TIDAL STATION ON 22 MAY 2006

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
October 2006

FIGURE 2B

APPENDIX A
Sampling Area Summaries

BUILDING 900s AREA
APPENDIX SECTION A-1
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2006
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

The Building 900s Area is located in the northern portion of the Presidio, adjacent to Crissy Field at the boundary of the San Francisco Bay, just southeast of the Golden Gate Bridge (Figure 1). The site is approximately 15 acres, with surface elevations ranging from approximately 10 to 15 feet above the Presidio lower low water (PLLW) datum (Montgomery Watson, 1996c).

Buildings in the Building 900s Area were associated with aviation maintenance activities for Crissy Field, which was built in 1919, and a formerly active Coast Guard Station (Figure A-1-1). Building uses shifted from airfield maintenance to vehicle maintenance in 1936. Building uses of concern include: a former motor pool repair shop, transformer storage, a solvent dip tank, bulk oil and waste oil storage, automotive bodywork, painting, battery storage, a former fuel pump house, fuel storage, steam cleaning, an underground oil-water separator, aircraft maintenance, a boiler house, equipment storage, vehicle maintenance, waste oil/solvent storage, a fueling area, and mine storage (Montgomery Watson, 1997a). Documented potential sources of environmental concern are surface spills associated with vehicle maintenance and waste oil storage and subsurface releases from underground storage tanks (USTs) and associated piping (Dames & Moore, 1997).

Groundwater samples collected from site wells have previously been analyzed for total petroleum hydrocarbons (TPH) as gasoline (TPHg), TPH as diesel (TPHd), TPH as fuel oil (TPHfo), volatile organic compounds (VOCs), and dissolved metals. Dissolved metals analysis has not been a part of the Building 900s Area monitoring program since 1997. Summaries of dissolved oxygen, TPH, and VOC results can be found in Tables A-1-1 through A-1-3.

The Coast Guard Station is located adjacent to and southeast of the site and has three associated monitoring wells, CGGW01, CGGW02, and CGGW03 (Figure A-1-1). The Coast Guard station is no longer included in the Presidio-wide Groundwater Monitoring Program. Prior groundwater sampling of these wells did not detect any concentrations of TPHg, TPHd, TPHfo or metals above laboratory detection limits and sampling was subsequently discontinued in 1996. Coast Guard Station groundwater analytical results for TPH and lead are summarized in Table A-17-1 in Appendix A of the *Draft Quarterly Groundwater Monitoring Annual Summary Report, Fourth Quarter 2001* (Treadwell & Rollo, 2002d).

A reduction in sampling frequency for all Building 900s Area wells to annual was previously approved by the stakeholders and sampling was only conducted at the site during the First Quarter 2006.

2.0 SITE DESCRIPTION AND GEOLOGY

Unconsolidated deposits encountered during previous site investigations in the Building 900s Area include three units: fill material, estuarine sand deposits with local interbedded fine-grained estuarine deposits, and Franciscan Complex bedrock.

Prior to remediation activities, the Building 900s Area consisted mostly of artificial fill with isolated areas of debris fill. The artificial fill was a mixture of sand, silt, and clay composed primarily of dredged sand from San Francisco Bay (used to fill historic wetlands beneath Crissy Field) and serpentinite and/or chert gravel used as road base. The debris fill was composed of silt and sand mixed with construction debris, including concrete, wood, glass, brick fragments, and wire (Dames & Moore, 1997). Fill materials range in thickness from 1.5 to 7 feet.

The fill materials are underlain by native estuarine sands interbedded with fine-grained estuarine deposits. The sand thickness extends up to approximately 50 feet, and the interbedded, fine-grained sediments range in thickness from 1 inch to 2.5 feet. Shell fragments and layers of organic material (including peat) up to 0.9 feet thick are locally present. At the location of former well 937GW01, adjacent to the serpentinite cliff that borders the site to the west and southwest, silty clay with sand and gravel (weathered serpentinite) extends to at least 35 feet below ground surface (bgs).

The laterally continuous, shallow, fine-grained estuarine deposits (also known as Bay Mud), which separate shallow water-bearing sand units to the southeast in the Building 637 Area (described in Appendix A, of the *Semi-Annual Groundwater Monitoring Report, First and Second Quarters 2004*, Treadwell & Rollo, 2004c), are not present beneath the Building 900s Area. Interbedded, fine-grained sediments are discontinuous and mostly occur locally north of Building 937.

The estuarine sediments are underlain by Franciscan Complex bedrock, predominantly serpentinite. The massive serpentinite outcrop exposed along the western portion of the Building 900s Area forms a cliff approximately 60 feet above ground surface (Figure A-1-1). At the base of the cliff, the serpentinite bedrock dips below ground surface and the depth to bedrock generally increases from the cliff to San Francisco Bay, with the maximum encountered depth at approximately 50 feet bgs.

A single, heterogeneous, unconfined (water table) coastal aquifer is present beneath the Building 900s Area. The water table beneath the Building 900s Area has, in the past, typically ranged from 6 to 9 feet bgs. The thickness of the aquifer increases as the depth to bedrock increases from the serpentinite cliff on the west side of the site toward San Francisco Bay (Figure A-1-1).

The Building 900s Area monitoring wells are generally screened in estuarine sand deposits of the aquifer, with some wells screened partially in fine-grained lenses or in weathered serpentinite bedrock. Because the site wells are screened in a single water table aquifer without discrete water-bearing zones, the wells are separated into three groups based on relative screened elevation rather than water-bearing zones. These screened intervals are referred to as the shallow, intermediate, and deep.

Groundwater in the Crissy Field Groundwater Area (Figure 1) generally flows north to northeast toward San Francisco Bay, with locally divergent flow directions (Montgomery Watson, 1999a). In the northwestern portion of the Building 900s Area, the historical coastal features influence the hydrogeology in the shallow interval by diverting groundwater flow (and contaminant migration) northwest and north along the historic lagoonal water channel (Montgomery Watson, 1997b), rather than northeast directly toward the bay. All three intervals have similar groundwater elevations.

3.0 REMEDIAL ACTION PLAN

In April 1998, the Department of Toxic Substances Control (DTSC) approved the Crissy Field Remedial Action Plan (RAP). The Crissy Field RAP addressed multiple Crissy Field area contamination sites, including the Building 900s Area. For the Building 900s Area, the Crissy Field RAP selected source soil removal and subsequent confirmation groundwater monitoring to ensure that contaminant concentrations do not exceed applicable standards. Approximately 39,000 tons of contaminated soil and fill were excavated and removed (Army and DTSC, 1998). The Crissy Field RAP requires that groundwater monitoring be conducted for a minimum of five years following construction completion, and that, should contamination concentrations exceed applicable standards for two consecutive quarters, the data be reviewed with the stakeholders and an action plan developed and implemented to address the groundwater contamination. Seventeen additional monitoring wells were installed between 19 and 29 June 2001 to expand the monitoring well network for this area (Figure A-1-1). The Crissy Field RAP identifies the following groundwater cleanup levels for this area:

Cis-1,2-dichloroethene (cis-1,2-DCE)	140,000 micrograms per Liter (µg/L)
Trans-1,2 dichloroethene (trans-1,2-DCE)	140,000 µg/L
Trichloroethene (TCE)	81 µg/L
Vinyl chloride	525 µg/L

In addition, five-year reviews of groundwater use in this area are required to ensure that no human use is occurring without appropriate treatment. These reviews are to continue until the groundwater meets drinking water standards or is no longer classified as a “potential drinking water source.” In May 2002, monitoring well 937GW108 was installed at the Building 937 Area as requested by the DTSC, and on 14 May 2002, dry well 979GW111 was replaced with monitoring well 979GW111R. This completed the monitoring well network required by the Crissy Field RAP.

4.0 GROUNDWATER MONITORING

The Building 900s Area has 28 associated monitoring wells (Figure A-1-1). Work at the site is currently being performed in accordance with the *Crissy Field RAP* and the *Field Sampling Plan* (FSP) (Treadwell & Rollo, 2001a). In accordance with Tables 1A and 1B, First and Second Quarter 2006 groundwater elevations were collected from all Building 900s Area wells and the annual groundwater sampling was conducted in the First Quarter 2006.

4.1 Groundwater-Level Measurements and Interpretation

Building 900s Area monitoring wells are screened in three different intervals of the single aquifer present. These screened intervals are referred to as shallow, intermediate, and deep zones and are differentiated by relative screen depths. A complete list of site wells, their associated water-bearing zones, and historical groundwater elevations, are presented in Table A-1-4. All groundwater elevation measurements for the First and Second Quarters 2006 were manually collected on 6 March and 22 May 2006, respectively. Water level meters were calibrated on 6 March and 22 May 2006 and calibration logs can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C.

During the First Quarter 2006, all site wells were gauged between 12:34 PM and 2:00 PM on 6 March 2006. Low tide was predicted to be at 11:12 AM on 6 March 2006. Observed low tide on 6 March 2006 occurred at 11:08 AM, with a magnitude of 0.8 feet above PLLW.

During the Second Quarter 2006, all site wells were gauged between 2:25 PM and 3:25 PM. Low tide was predicted to be at 8:12 PM on 22 May 2006. Observed low tide on 22 May 2006 occurred at 8:06 PM with a magnitude of 0.79 feet PLLW. Tidal predictions and observations are taken from the National Oceanic and Atmospheric Administration's (NOAA) Center for Operational Oceanographic Products and Services website. Predicted and observed tidal times and magnitudes during the First and Second Quarters 2006 are presented in Tables 2A and 2B, respectively.

4.1.1 Shallow Groundwater

During the First Quarter 2006, shallow groundwater elevations at the Building 900s Area ranged from 4.31 to 8.04 feet above PLLW in monitoring wells 979GW110 and 937GW12/937GW108, respectively. The majority of groundwater elevations measured during the First Quarter 2006 were slightly higher than the historical elevations. Seven of the eight shallow monitoring wells located in the southern portion of the site and three of the six wells on the northern portion of the site had new high elevations measured (Table A-1-4). The new high groundwater elevations can be attributed to the relatively large amount of rainfall the area received during the First Quarter 2006. The First Quarter 2006 shallow groundwater flow direction in the northern portion of the Building 900s Area was generally northwesterly along the historic lagoonal channel while the groundwater flow direction in the southern portion of the site was northeasterly towards San

Francisco Bay (Figure A-1-2). The average groundwater gradients for the shallow monitoring wells in the northern and southern portions of the site were estimated to be approximately 0.007 and 0.016 feet per foot, respectively.

During the Second Quarter 2006, shallow groundwater elevations at the Building 900s Area ranged from 3.71 to 6.42 feet above PLLW in monitoring wells 937GW12 and 937GW108, respectively. The Second Quarter 2006 shallow groundwater flow direction in the northern portion of the Building 900s Area was generally northwesterly along the historic lagoonal channel while the groundwater direction in the southern portion of the site was northeasterly towards San Francisco Bay (Figure A-1-3). The average groundwater gradients for the shallow monitoring wells in the northern and southern portions of the site were estimated to be approximately 0.004 and 0.006 feet per foot, respectively.

Shallow groundwater flow directions and gradients are generally consistent with those previously reported for the Building 900s Area.

4.1.2 Intermediate Groundwater

During the First Quarter 2006, intermediate groundwater elevations at the Building 900s Area ranged from 4.12 to 6.26 feet above PLLW in monitoring wells 979GW110 and 937GW102, respectively. The First Quarter 2006 intermediate groundwater flow direction was northeasterly towards San Francisco Bay (Figure A-1-4). The average groundwater gradient for the intermediate monitoring wells in the Building 900s Area was estimated to be approximately 0.008 feet per foot.

During the Second Quarter 2006, intermediate groundwater elevations at the Building 900s Area ranged from 0.71 to 5.09 feet above PLLW in monitoring wells 979GW110 and 937GW102, respectively. The Second Quarter 2006 intermediate groundwater flow direction in the Building 900s Area was northeasterly (Figure A-1-5). The average groundwater gradient observed in intermediate monitoring wells in the Building 900s Area was estimated to be approximately 0.004 feet per foot.

Intermediate groundwater flow directions and gradients are generally consistent with those previously reported for the Building 900s Area.

4.1.3 Deep Groundwater

During the First Quarter 2006, deep groundwater elevations at the Building 900s Area ranged from 4.21 to 6.23 feet above PLLW in monitoring wells 979GW117 and 937GW38, respectively. The deep groundwater flow direction was northerly (Figure A-1-6), with an average groundwater gradient of approximately 0.006 feet per foot.

During the Second Quarter 2006, deep groundwater elevations at the Building 900s Area ranged 1.10 to 5.55 feet above PLLW in monitoring wells 979GW117 and 937GW38, respectively. The deep groundwater flow direction was north-northwesterly (Figure A-1-7). The average groundwater gradient was calculated to be approximately 0.004 feet per foot.

Deep groundwater flow directions and gradients are generally consistent with those previously reported at the Building 900s Area.

4.1.4 Vertical Gradients

Building 900s Area vertical gradients are presented in Table A-1-5. Vertical groundwater gradients were calculated for three well clusters each having one shallow, intermediate, and deep well: 900WC-1, 900WC-2, and 900WC-3. Well clusters 900WC-1 and 900WC-2 are located northeast of Building 937 (Figure A-1-1). Well cluster 900WC-3 is located in the northern portion of the site. A description of which wells are contained in each well cluster and a description of how the vertical gradients were calculated can be found in Table A-1-5.

During First Quarter 2006 vertical gradients were observed as follows:

- A downward (positive) vertical gradient was observed between the shallow/intermediate intervals and shallow/deep intervals within well clusters 900WC-1, 900WC-2, and 900WC-3, and the intermediate/deep intervals within well cluster 900WC-2 and 900WC-3.
- An upward (negative) vertical gradient was observed between the intermediate/deep intervals within well cluster 900WC-1.

During Second Quarter 2006 vertical gradients were observed as follows:

- A downward (positive) vertical gradient was observed between the shallow/intermediate intervals within well cluster 900WC-1 and 900WC-3, intermediate/deep intervals within well clusters 900WC-1 and 900WC-2, and shallow/deep intervals within well clusters 900WC-1 and 900WC-2.
- An upward (negative) vertical gradient was observed between the shallow/intermediate intervals within well cluster 900WC-2, and intermediate/deep and shallow/deep intervals within well cluster 900WC-3.

The vertical gradients observed during the First and Second Quarters 2006 are generally consistent with previous findings. The vertical gradients between the shallow/intermediate and shallow/deep intervals are generally slightly to moderately downward with the intermediate/deep varying more between upward and downward flow.

4.2 Monitoring Well Purging and Sampling

All 28 of the Building 900s Area monitoring wells that were proposed for sampling during the First Quarter 2006 were purged and sampled between 9 and 15 March 2006, in accordance with methods shown in Table 1A and procedures described in the FSP (Treadwell & Rollo, 2001a). No monitoring wells in the Building 900s Area were scheduled to be sampled during the Second Quarter 2006 (Table 1B).

Purge equipment and volumes, and sampling equipment for each monitoring well are described in the purge records located at the conclusion of this section. Purge water was stored for future disposal in one of two 2,800-gallon above-ground polyethylene storage tanks located at the Central Magazine.

5.0 GROUNDWATER ANALYTICAL RESULTS

Groundwater samples collected from the Building 900s Area monitoring wells during the First Quarter 2006 sampling event were analyzed for VOCs, TPHg, TPHd, and TPHfo. Additionally, dissolved oxygen was measured within each well prior to sampling. The TPHfo standard currently being used is a TPH motor oil standard, as defined by the Presidio QAPP, with a carbon range of C_{24} to C_{36}. Section 5.4.3.1 in the main text discusses the data compatibility issues associated with TPH analyses.

5.1 Dissolved Oxygen

Dissolved oxygen concentrations are summarized in Table A-1-1. Concentrations of dissolved oxygen measured during the First Quarter 2006 were generally within the historical range previously measured within Building 900s Area wells, with the exception of new highs measured in 937GW12 and 937GW106 and the new lows measured within 937GW101, 937GW108 and 979GW111R. The new high measured at 937GW12 is significantly higher than recent dissolved oxygen concentrations and may be anomalous. The other new low and high concentrations are just outside the range of historical concentrations and can be attributed to natural fluctuations.

Dissolved oxygen concentrations were measured using either a down-hole or in-line dissolved oxygen meter during the First Quarter 2006. A discussion of dissolved oxygen measurement procedures and data comparability can be found in Section 5.4.1 of the main report.

5.2 VOCs Results

During the First Quarter 2006, VOCs were detected in shallow, intermediate, and deep groundwater (Figures A-1-8 through A-1-10). The Crissy Field RAP specifies cleanup levels for cis-1,2-DCE, trans-1,2-DCE, TCE, and vinyl chloride. At least one of these VOC compounds was detected in samples collected from 17 of the 28 monitoring wells sampled during the First

Quarter 2006. All VOC concentrations detected during First Quarter 2006 were significantly below RAP specified cleanup levels (Table A-1-2).

The table below summarizes new high and low VOC concentrations detected during the First Quarter 2006 when compared to previous analytical results and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date sampling commenced, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Volatile Organic Compounds							
937GW105	Cis-1,2-Dichloroethene	15 / 15	0.6	1	--	2.4	µg/L
	Vinyl Chloride	3 / 16	< 0.5	3.3	--	3.9	µg/L
937GW107	Trans-1,2-Dichloroethene	15 / 15	1.3	8.4	--	8.5	µg/L
937GW108	Chlorobenzene	14 / 15	0.8	53	< 0.5	--	µg/L
950GW108	1,2-Dichloroethene (Total)	3 / 3	160	170 *	--	280 *	µg/L
979GW110	Cis-1,2-Dichloroethene	7 / 14	< 0.5	6.6	--	6.7	µg/L
	Vinyl Chloride	1 / 14	< 0.5	< 0.5	--	0.9	µg/L
979GW111R	Cis-1,2-Dichloroethene	10 / 10	4.2	14	3.9	--	µg/L
979GW113	Cis-1,2-Dichloroethene	11 / 14	< 0.5	7.4	--	11	µg/L
	Trichloroethene	12 / 14	< 0.5	3.1	--	3.9	µg/L
	Vinyl Chloride	4 / 14	< 0.5	0.7	--	0.8	µg/L

Qualified data in the table above is indicated with an asterisk (*).

Cis-1,2-DCE, trans-1,2-DCE, TCE, and vinyl chloride had new high concentrations reported slightly above previous high concentrations. Monitoring wells with potentially increasing or decreasing concentrations and monitoring wells with concentrations significantly lower or higher than previous concentrations are discussed below.

TCE was detected at shallow well 979GW113 with a new high concentration of 3.9 µg/L, compared to the previous high of 3.1 µg/L, but well below the RAP-specified cleanup level of 81 µg/L.

Cis-1,2-DCE was detected at a concentration of 2.4 µg/L, above the previous maximum of 1 µg/L, in intermediate monitoring well 937GW105. Additionally, cis-1,2-DCE was detected at 11 µg/L, above the previous maximum of 7.4 µg/L, in shallow monitoring well 979GW113 during the First Quarter 2006. These values are well below the RAP-specified cleanup level of 180,000 µg/L.

Vinyl chloride was detected at a concentration of 3.9 µg/L within intermediate monitoring well 937GW105 during the First Quarter 2006. Vinyl chloride was first detected in this well during the First Quarter 2004 at a concentration of 0.5 µg/L, and was also detected at 3.3 µg/L during

the First Quarter 2005. Prior to these sampling events, vinyl chloride had not been detected above the laboratory reporting limit within this well. Vinyl chloride was also detected at intermediate well 979GW110, for the first time, at a concentration of 0.9 µg/L during the First Quarter 2006.

Total 1,2-DCE was detected at a new high concentration of 280 µg/L at intermediate well 950GW108. However, total 1,2-DCE has been reported only three times by the QC laboratory and cis- and trans-1,2-DCE concentrations are within historical ranges.

VOC concentrations at the Building 900s Area have remained relatively stable at low concentrations, within the monitoring wells sampled prior to the First Quarter 2002. Concentrations of VOCs in the monitoring wells that were added to the monitoring program beginning in the First Quarter 2002 have been more varied, but have remained well below RAP-specified cleanup levels.

In general, during natural biodegradation, TCE is dehalogenated and converted into two isomers, cis- and trans-1,2-DCE. The processes that convert TCE to either cis- or trans-1,2-DCE are highly variable and depend on specific field conditions. Generally, during natural biodegradation, the cis-1,2-DCE isomer is found at higher concentrations than trans-1,2-DCE. Monitoring wells with detections of cis- or trans-1,2-DCE during the First Quarter 2006 had higher concentrations of cis-1,2-DCE than trans-1,2-DCE except monitoring wells 937GW101 (shallow), 937GW102 (intermediate), and 979GW111R (intermediate). Cis- and trans-1,2-DCE can be further dehalogenated to form vinyl chloride. In the majority of samples that contained cis- and trans-1,2-DCE, vinyl chloride was present at lower concentrations. The relative concentration ratios of cis- and trans-1,2-DCE, and vinyl chloride in the samples continue to indicate that natural biodegradation processes are occurring.

5.3 TPH Results

TPH was only detected in shallow monitoring wells 937GW108 and 950GW108 during the First Quarter 2006 (Table A-1-3). TPHg and TPHd were detected within 937GW108 at concentrations of 140 and 55 µg/L, respectively. The detected concentration of TPHg within 937GW108 during this quarter is the lowest to date, while the concentration of TPHd is slightly above the laboratory's reporting limit of 50 µg/L. TPHd was detected, for the first time, at 120 µg/L in the QC duplicate sample collected from 950GW108, but was not detected in the primary or the duplicate samples associated with this well and had not been detected during previous quarters within this well.

TPHg and TPHd are not listed in the Crissy Field RAP as contaminants of concern and do not have specified cleanup levels relative to the Building 900s Area.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Groundwater elevations, gradients, and flow directions during First and Second Quarters 2006 are consistent with historical values and interpretations. VOC concentrations detected during the First Quarter 2006 did not exceed their respective RAP-specified cleanup levels. The majority of VOC concentrations detected during the First Quarter 2006 were within the range of previously detected concentrations. The only monitoring well with significantly higher VOC concentrations was shallow well 950GW108, which had a higher concentration of total 1,2-DCE detected than in any previous monitoring event.

The relative concentration ratios of TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride within Building 900s groundwater samples continue to indicate that natural biodegradation processes are occurring. The ratios of TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride will continue to be monitored in future events.

TPHg and TPHd were detected in the shallow monitoring well 937GW108 sample at concentrations of 140, and 55 µg/L, respectively. The detected TPH concentrations within 937GW108 were at or near their lowest historical concentrations. TPHd was detected for the first time at 950GW108, but only in the duplicate sample at a concentration of 120 µg/L.

The sampling frequency at the Building 900s Area will continue to be annual per the Crissy Field RAP. The first five-year review will be completed in 2007.

Table A-1-1
Summary of Dissolved Oxygen Measurements
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	**Sample Date**	**Dissolved Oxygen**
	Analytical Method	Field
		(mg/L)
937GW06 (shallow)	03/14/06	0.98
	03/17/05	0.4
	03/16/04	0.1
	12/05/03	1.1
	08/18/03	0.7
	06/03/03	0.5
	03/20/03	0.6
	12/05/02	1.3
	08/28/02	1.4
	05/31/02	1.4
	03/05/02	1.1
	11/27/01	1.2
	09/06/01	NM
	05/16/01	2.5
	06/20/00	0.03
	01/10/00	0.7
	09/01/99	0.52
	06/01/99	0.3
	03/15/99	0.54
	12/14/98	0.39
	09/03/98	0.81
	05/27/98	0.55
	02/24/98	0.58
	11/25/97	0.26
	08/26/97	0.67
	06/04/97	0.25
	03/10/97	0.13
937GW07 (shallow)	03/14/06	0.23
	03/23/05	1.1
	03/18/04	0.93
	12/10/03	0.8
	08/18/03	0.7
	06/06/03	0.5
	03/20/03	1.4
	12/05/02	1.8
	09/06/02	0.4
	06/04/02	1
	03/06/02	1
	12/04/01	2.01
	09/07/01	2.6
	05/18/01	2.5
	06/20/00	0.08
	01/20/00	9.47
	03/09/99	3.27
	12/07/98	2.79

Table A-1-1
Summary of Dissolved Oxygen Measurements
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	**Sample Date**	**Dissolved Oxygen**
	Analytical Method	Field
		(mg/L)
937GW07 (shallow)	09/02/98	0.36
	05/19/98	0.69
	02/25/98	6.8 (J35)
	12/01/97	2.27
	08/27/97	0.55
	06/16/97	0.4
	03/18/97	0.4
937GW12 (shallow)	03/13/06	5.17
	03/16/05	0.9
	03/12/04	0.7
	12/03/03	0.8
	08/18/03	0.7
	06/03/03	0.7
	03/20/03	0.5
	12/05/02	0.5
	08/28/02	1
	05/31/02	1.2
	03/05/02	1.2
	11/27/01	2.09
	09/06/01	0.7
	05/15/01	3.2
	06/19/00	0.11
	01/11/00	0.98
	09/01/99	1.01
	06/02/99	1.13
	03/10/99	0.79
	12/07/98	0.72
	09/01/98	0.92
	05/26/98	0.76
	02/25/98	1.32
	01/07/98	1.58
	12/01/97	0.17
	08/27/97	0.32
	06/10/97	0.72
	03/13/97	0.12
937GW15 (shallow)	03/15/06	0.4
	03/23/05	1.4
	03/18/04	0.16
	12/10/03	1.5
	08/18/03	0.6
	06/06/03	2.9
	03/20/03	0.8
	12/05/02	1.2
	09/06/02	0.4
	06/04/02	1.8

Table A-1-1
Summary of Dissolved Oxygen Measurements
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	**Sample Date**	**Dissolved Oxygen**
	Analytical Method	Field
		(mg/L)
937GW15 (shallow)	03/06/02	1.6
	12/04/01	1.3
	09/07/01	3.4
	05/17/01	4.5
	06/20/00	0.39
	01/20/00	3.37
	09/02/99	3.5
	06/02/99	6.3 (J35)
	03/10/99	0.91
	12/07/98	0.42
	09/01/98	1.21
	05/19/98	1
	02/16/98	4.07
	11/20/97	0.16
	08/21/97	0.13
	06/02/97	0.19
	03/04/97	2.2
937GW32R (deep)	03/13/06	0.73
	03/18/05	0.2
	03/12/04	0.2
	12/09/03	0.7
	08/18/03	0.6
	06/03/03	0.4
	03/20/03	0.4
	12/05/02	0.7
	08/29/02	0.8
	06/04/02	1
	03/05/02	0.2
	11/27/01	NM
	09/06/01	0.76
	05/16/01	3.3
	06/16/00	0.05
	01/13/00	0.4
	06/01/99	0.25
	03/15/99	0.26
	12/14/98	0.23
	09/03/98	0.29
	05/27/98	0.4
	02/24/98	0.35
	11/25/97	0.16
	08/26/97	0.23
	06/04/97	0.1
	03/04/97	0.06

Table A-1-1
Summary of Dissolved Oxygen Measurements
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	**Sample Date**	**Dissolved Oxygen**
	Analytical Method	Field
		(mg/L)
937GW35 (shallow)	03/13/06	0.51
	03/18/05	0.7
	03/16/04	0.5
	12/09/03	1.8
	08/20/03	0.5
	06/03/03	1
	03/20/03	1
	12/05/02	NM
	08/29/02	1.2
	06/04/02	0.9
	03/05/02	1.5
	11/27/01	2.66
	09/06/01	4.9
	05/16/01	3.2
	06/16/00	0.22
	09/01/99	1.34
	06/01/99	1.34
	03/09/99	1.47
	12/02/98	0.6
	09/03/98	0.93
	05/18/98	1.94
	02/11/98	2
	11/17/97	0.49
	08/18/97	0.87
	05/27/97	1.36
	03/03/97	0.78
937GW37 (shallow)	03/13/06	0.34
	03/16/05	0.7
	03/12/04	0.1
	12/03/03	0.8
	08/15/03	0.6
	06/03/03	0.8
	03/19/03	0.6
	12/05/02	1
	08/28/02	1.3
	05/31/02	0.9
	03/05/02	1.4
	11/27/01	2.99
	09/06/01	0.91
	05/15/01	1.3
	06/19/00	0.08
	01/13/00	0.67
	09/02/99	0.67
	06/02/99	4.4
	03/10/99	2.57
	12/07/98	0.5
	09/02/98	0.47
	05/26/98	0.89
	02/26/98	4.46

Table A-1-1
Summary of Dissolved Oxygen Measurements
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	**Sample Date**	**Dissolved Oxygen**
	Analytical Method	Field
		(mg/L)
937GW37 (shallow)	12/02/97	0.52
	08/28/97	0
	06/11/97	0.91
	03/17/97	0.1
937GW38 (deep)	03/13/06	0.52
	03/16/05	0.4
	03/12/04	0.2
	12/03/03	0.8
	08/18/03	0.9
	06/03/03	0.4
	03/19/03	0.3
	12/05/02	1
	08/28/02	0.8
	05/31/02	0.9
	03/05/02	1.2
	11/27/01	2.7
	09/06/01	0.56
	05/15/01	1.7
	06/19/00	0.1
	01/11/00	0.3
	09/02/99	0.46
	06/02/99	0.11
	03/10/99	0.12
	12/03/98	0.13
	09/01/98	0.87
	05/26/98	0.98
	02/26/98	0.82
	12/02/97	0.19
	08/27/97	0.22
	06/10/97	0
	03/13/97	0.05
937GW39 (deep)	03/13/06	0.42
	03/17/05	0.6
	03/12/04	0.3
	12/05/03	1
	08/18/03	0.8
	06/03/03	0.7
	03/20/03	0.4
	12/05/02	0.6
	08/28/02	1.5
	05/31/02	0.7
	03/05/02	1.1
	11/27/01	1.9
	09/07/01	0.91
	05/18/01	0.6
	06/16/00	0.1
	01/13/00	0.22
	09/02/99	0.3
	06/01/99	1.1

Table A-1-1
Summary of Dissolved Oxygen Measurements
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	**Sample Date**	**Dissolved Oxygen**
	Analytical Method	Field
		(mg/L)
937GW39 (deep)	03/09/99	0.13
	12/02/98	0.1
	08/31/98	4.65
	05/21/98	0.11
	02/18/98	0.68
	12/03/97	0.83
	08/28/97	0
	06/16/97	0.03
	03/18/97	0.04
937GW42 (intermediate)	03/14/06	0.43
	03/18/05	0.3
	03/12/04	0.1
	12/09/03	1
	08/20/03	0.9
	06/09/03	0.8
	03/20/03	0.4
	12/05/02	0.9
	08/29/02	0.9
	06/04/02	0.7
	03/06/02	0.9
	11/28/01	1.4
	09/06/01	0.61
	05/16/01	1
	06/16/00	0.18
	01/10/00	0.98
	09/03/98	0.73
	05/28/98	0.67
	02/24/98	0.42
	11/25/97	0.13
	08/26/97	0.35
	06/04/97	0.14
	03/10/97	0
937GW101 (shallow)	03/13/06	0.09
	03/18/05	0.6
	03/16/04	0.66
	12/04/03	0.7
	08/12/03	0.9
	06/04/03	1.7
	03/19/03	0.2
	12/10/02	0.7
	08/28/02	0.7
	06/04/02	1.1
	03/08/02	4
	11/27/01	0.9
	09/06/01	0.4

Table A-1-1
Summary of Dissolved Oxygen Measurements
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	**Sample Date**	**Dissolved Oxygen**
	Analytical Method	Field
		(mg/L)
937GW102 (intermediate)	03/13/06	2.87
	03/18/05	0.7
	03/16/04	0.62
	12/04/03	0.8
	08/12/03	0.6
	06/03/03	1.2
	03/19/03	0.3
	12/10/02	1
	08/28/02	0.9
	05/30/02	1.4
	03/08/02	3.8
	11/28/01	1
	09/06/01	0.4
937GW103 (deep)	03/13/06	3.42
	03/18/05	0.7
	03/16/04	0.7
	12/04/03	0.6
	08/12/03	0.7
	06/03/03	1.7
	03/19/03	0.4
	12/10/02	3.4
	08/28/02	0.9
	05/30/02	0.9
	03/08/02	4.4
	11/27/01	2.4
	09/06/01	0.4
937GW104 (shallow)	03/13/06	1.3
	03/30/05	0.8
	03/12/04	0.48
	12/08/03	2.1
	08/12/03	0.3
	06/03/03	0.3
	03/11/03	1
	12/10/02	0.4
	08/30/02	0.4
	05/31/02	0.4
	03/13/02	4.3
	12/03/01	1.1
	09/07/01	0.98
937GW105 (intermediate)	03/13/06	0.9
	03/30/05	1
	03/16/04	0.11
	12/09/03	1
	08/15/03	0.4
	06/04/03	0.3
	03/19/03	0.2
	12/10/02	0.3
	09/05/02	0.5
	05/31/02	0.4
	03/13/02	0.9
	12/03/01	0.74
	09/07/01	6.3

Table A-1-1
Summary of Dissolved Oxygen Measurements
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	**Sample Date**	**Dissolved Oxygen**
	Analytical Method	Field
		(mg/L)
937GW106 (shallow)	03/13/06	1.5
	03/30/05	1.3
	03/16/04	0.37
	12/09/03	0.8
	08/18/03	0.4
	06/04/03	0.5
	03/18/03	0.2
	12/10/02	0.2
	09/05/02	0.5
	05/31/02	0.3
	03/13/02	0.3
	11/29/01	1.4
	08/31/01	1.3
937GW107 (intermediate)	03/14/06	0.4
	03/30/05	0.7
	03/16/04	0.1
	12/09/03	1.4
	08/18/03	0.3
	06/03/03	0.2
	03/18/03	0.2
	12/10/02	0.3
	09/05/02	0.4
	05/31/02	0.4
	03/13/02	0.4
	11/29/01	0.8
	08/31/01	NM
937GW108 (shallow)	03/13/06	0.09
	03/17/05	0.4
	03/19/04	1.1
	12/03/03	0.5
	08/15/03	0.4
	06/03/03	0.6
	03/19/03	0.4
	12/10/02	1.1
	09/05/02	1.9
	06/04/02	1.6
950GW108 (intermediate)	03/09/06	0.81
	03/31/05	0.8
	03/16/04	0.39
	12/04/03	NM
	08/12/03	0.9
	06/06/03	0.3
	03/18/03	0.4
	12/11/02	0.1
	08/29/02	0.7
	06/04/02	0.9
	03/14/02	0.4
	11/30/01	0.4
	09/06/01	4.65

Table A-1-1
Summary of Dissolved Oxygen Measurements
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	**Sample Date**	**Dissolved Oxygen**
	Analytical Method	Field
		(mg/L)
979GW109 (shallow)	03/14/06	0.5
	03/18/05	0.8
	03/16/04	0.4
	12/09/03	0.5
	08/20/03	0.4
	06/06/03	0.3
	03/19/03	0.8
	12/10/02	2.7
	08/29/02	0.8
	06/04/02	1.1
	03/08/02	1.8
	11/28/01	2
	09/07/01	0.57
979GW110 (intermediate)	03/14/06	0.4
	03/18/05	0.7
	03/16/04	0.7
	12/04/03	0.7
	08/12/03	0.8
	06/05/03	2
	03/19/03	0.8
	12/11/02	0.5
	08/29/02	0.9
	05/30/02	0.9
	03/14/02	0.2
	11/28/01	4.1
	09/07/01	4.5
979GW111R (intermediate)	03/13/06	0.1
	03/30/05	1.1
	03/12/04	0.11
	12/09/03	1.7
	08/12/03	0.3
	06/03/03	1.4
	03/11/03	1.9
	12/10/02	0.6
	08/30/02	0.3
	06/05/02	1.5
979GW112 (shallow)	03/14/06	0.3
	03/30/05	1.4
	03/12/04	0.09
	12/09/03	0.9
	08/15/03	0.6
	06/03/03	0.5
	03/18/03	0.2
	12/10/02	0.3
	08/30/02	0.3
	06/05/02	0.3
	03/14/02	2.7
	12/03/01	1.3
	08/31/01	3.8

Table A-1-1
Summary of Dissolved Oxygen Measurements
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	**Sample Date**	**Dissolved Oxygen**
	Analytical Method	Field
		(mg/L)
979GW113 (shallow)	03/14/06	1
	03/18/05	0.6
	03/16/04	0.43
	12/04/03	0.9
	08/12/03	1
	06/05/03	2.4
	03/19/03	0.4
	12/10/02	2.7
	08/28/02	1.1
	05/30/02	1.1
	03/13/02	1.1
	11/29/01	0.8
	09/07/01	6.9
979GW114 (intermediate)	03/14/06	0.3
	03/18/05	NM
	03/16/04	0.6
	12/04/03	NM
	08/12/03	0.5
	06/04/03	2.1
	03/19/03	0.2
	12/10/02	2.9
	08/28/02	1
	05/30/02	1.1
	03/13/02	0.9
	11/29/01	0.6
	09/07/01	10.4
979GW115 (shallow)	03/13/06	0.5
	03/30/05	1.1
	03/12/04	0.24
	12/09/03	0.5
	08/12/03	0.3
	06/03/03	0.3
	03/18/03	0.3
	12/11/02	0.2
	08/30/02	0.3
	06/05/02	0.3
	03/13/02	1.7
	11/29/01	1
	08/29/01	4.7
979GW116 (intermediate)	03/14/06	0.3
	03/31/05	0.9
	03/16/04	0.15
	12/09/03	0.2
	08/18/03	0.3
	06/04/03	0.4
	03/19/03	0.3
	12/10/02	0.2
	09/05/02	0.4
	06/06/02	4.3
	03/14/02	3.9
	11/29/01	1
	08/29/01	4.2

Table A-1-1
Summary of Dissolved Oxygen Measurements
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	**Sample Date**	**Dissolved Oxygen**
	Analytical Method	Field
		(mg/L)
979GW117 (deep)	03/13/06	0.2
	03/17/05	0.60
	03/12/04	0.15
	12/08/03	2.1
	08/12/03	0.3
	06/03/03	0.3
	03/18/03	0.2
	12/10/02	0.4
	08/30/02	0.3
	05/31/02	1.4
	03/13/02	1.6
	11/29/01	1.4
	08/29/01	8.1

Notes
mg/L - milligrams per liter
NM - Not measured
Table 11 in the main report identifies current and historical data qualifiers.

Table A-1-2
Results of VOC Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-DCE (cis & trans)	Cis-1,2-DCE	Trans-1,2-DCE	1,4-Dichloro-benzene	2-Butanone	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-benzene	Chloro-methane	Dichloro-methane	Ethyl-benzene	MTBE	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	--	--	**140,000**	**140,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**81**	**525**	--	--
937GW06 (shallow)	03/14/06	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/17/05	< 0.5	< 0.5	NA	3.9	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/16/04	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/05/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/18/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/20/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	0.1 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/05/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/28/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/31/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/05/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/27/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/06/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/16/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/20/00	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	01/10/00	< 0.5	< 0.5	NA	1	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/01/99	< 0.5	< 0.5	NA	1.8	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/01/99	< 0.5	< 0.5	NA	1.2	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/15/99	< 0.5	< 0.5	NA	4 (J33)	0.56	< 0.5	NA	NA	0.3 (J28)	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	4.7 (J33)	< 0.5	ND
	12/14/98	< 0.5	< 0.5	NA	16	2.5	< 0.5	NA	NA	< 1.2 (U2)	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	14	< 0.5	ND
	09/03/98	< 0.5	< 0.5	NA	1.9 (J18)	0.55 (J18)	< 0.5	NA	NA	< 0.5 (U18)	< 0.5	< 5	< 0.5	0.72 (J18)	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 0.5	ND
	05/27/98	< 0.5	< 0.5	NA	1.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/24/98	< 0.5	< 0.5	NA	12	2.1	< 0.5	NA	NA	1.4	< 0.5	< 5	< 0.5	0.62	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	17	< 0.5	ND
	11/25/97	< 0.5	< 0.5	NA	2.3	0.64	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/26/97	< 0.5	< 0.5	NA	1.7	0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/04/97	< 0.5	< 0.5	NA	1	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/10/97	< 0.5	< 0.5	NA	0.65	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/11/96	< 0.5	< 0.5	NA	0.96	< 0.5	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	0.55	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/14/96	< 0.5	< 0.5	0.94	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/15/96	< 0.5	< 0.5	7.8	NA	NA	< 0.5	< 10	< 10	0.7	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	18	< 0.5	ND
	01/23/96	< 0.5	< 0.5	3.3	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	10/19/95	< 0.5 U	< 0.5	NA	7.3	7.7	NA	< 10	< 10	0.54	< 0.5 U	< 5	< 0.5 U	< 0.5	< 4.5 U	< 0.5 U	NA	< 0.5 U	< 0.5	< 0.5	< 0.5	2.5	< 0.5 U	ND
	07/19/95	< 0.5	< 0.5	4.4	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/26/95	< 0.5	< 0.5	16	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	1.7	< 0.5	ND
	02/03/95	< 0.5	< 0.5	7.2	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	5	< 0.5	ND
	11/07/94	< 0.5	< 0.5	0.79	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	07/28/94	< 0.5	< 0.5	0.76	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/28/94	< 0.5	< 0.5	1.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/11/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/01/93	< 0.5	NA	NA	0.68	< 0.5	< 0.5	NA	< 10	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/02/93	< 0.5	NA	NA	0.65	< 0.5	< 0.5	NA	< 5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND
937GW07 (shallow)	03/14/06	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/23/05	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/18/04	< 0.5	< 0.5	NA	0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/10/03	< 0.5	< 0.5	NA	1	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/18/03	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/06/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/20/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 0.4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/05/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/06/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/04/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/06/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1 U	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/07/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/18/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/20/00	< 0.5	< 0.5	NA	< 0.5 (U20)	< 0.5 (U20)	< 0.5	NA	NA	< 0.5 (U20)	< 0.5	< 5	< 0.5	< 0.5 (U20)	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5 (U20)	< 0.5 (U20)	< 0.5 (U20)	< 0.5	ND
	01/20/00	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND

Table A-1-2
Results of VOC Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-DCE (cis & trans)	Cis-1,2-DCE	Trans-1,2-DCE	1,4-Dichloro-benzene	2-Butanone	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-benzene	Chloro-methane	Dichloro-methane	Ethyl-benzene	MTBE	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	--	--	**140,000**	**140,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**81**	**525**	--	--
937GW07 (shallow)	12/07/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/02/98	< 0.5	< 0.5	NA	< 0.5 (U18)	< 0.5 (U18)	< 0.5	NA	NA	< 0.5 (U18)	< 0.5	< 5	< 0.5	< 0.5 (U18)	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 0.5	ND
	05/19/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/25/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/01/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/27/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/16/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/18/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/18/96	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/21/96	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/17/96	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	01/25/96	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	10/24/95	< 0.5 U	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 0.5 U	< 5	< 0.5 U	< 0.5	< 4.5 U	< 0.5 U	NA	< 0.5 U	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 U	ND
	07/27/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/04/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/03/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/02/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/11/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/11/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/11/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/02/93	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	NA	< 10	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND
	07/30/93	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	NA	< 5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND
937GW12 (shallow)	03/13/06	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/16/05	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/12/04	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/03/03	< 0.5	< 0.5	NA	0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/18/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 J,U	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	< 0.5	ND
	03/20/03	< 0.5	< 0.5	NA	< 0.5	0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	ND
	12/05/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/28/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1	< 0.5	ND
	05/31/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/05/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/27/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	1	< 0.5	< 0.5	< 0.5	ND
	09/06/01	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/15/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 10	< 10 UJ	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/19/00	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	0.62	< 0.5	< 0.5	ND
	01/11/00	< 0.5	< 0.5	NA	1.2	0.58	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	0.98	< 0.5	ND
	09/01/99	< 0.5	< 0.5	NA	1.8	5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	7	< 0.5	ND
	06/02/99	< 0.5	< 0.5	NA	1.7	4.8	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	0.66	5.2	< 0.5	ND
	03/10/99	< 0.5	< 0.5	NA	0.57	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	2.8	< 0.5	< 0.5	ND
	12/07/98	< 0.5	< 0.5	NA	3.8	5.1	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	39	< 0.5	ND
	09/01/98	< 0.5	< 0.5	NA	2.7 (J18)	< 0.5 (U18)	< 0.5	NA	NA	< 0.5 (U18)	< 0.5	< 5	< 0.5	0.74 (J18)	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5 (U18)	< 0.5 (U18)	0.66 (J18)	< 0.5	ND
	05/26/98	< 0.5	< 0.5	NA	18	7.7	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	1.5	9.4	< 0.5	ND
	02/25/98	< 0.5	< 0.5	NA	27	12	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	8.6	1.6	< 0.5	ND
	12/01/97	< 1	< 1	NA	43	12	< 1	NA	NA	< 1	< 1	< 10	< 1	< 1	< 9	< 1	NA	< 1	< 1	< 1	1.8	6.4	< 1	ND
	08/27/97	< 0.5	< 0.5	NA	1.2	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	0.87	< 0.5	ND
	06/10/97	< 0.5	< 0.5	NA	3	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	1.5	< 0.5	ND
	03/13/97	< 0.5	< 0.5	NA	1.7	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/13/96	< 0.5	< 0.5	NA	1.9	< 0.5	< 0.5	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	0.93	< 0.5	ND
	08/16/96	< 0.5	< 0.5	1.2	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/20/96	< 0.5	< 0.5	1.3	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	0.59	< 0.5	ND

Table A-1-2
Results of VOC Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-DCE (cis & trans)	Cis-1,2-DCE	Trans-1,2-DCE	1,4-Dichloro-benzene	2-Butanone	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-benzene	Chloro-methane	Dichloro-methane	Ethyl-benzene	MTBE	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	--	--	**140,000**	**140,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**81**	**525**	--	--
937GW12 (shallow)	01/26/96	< 0.5	< 0.5	1.2	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	0.65	< 0.5	ND
	10/25/95	< 0.5 U	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 0.5 U	< 5	< 0.5 U	< 0.5	< 4.5 U	< 0.5 U	NA	< 0.5 U	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 U	ND
	07/26/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/03/95	< 0.5	< 0.5	0.94	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/09/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/01/94	< 0.5	< 0.5	2.4	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	0.65	< 0.5	ND
	08/10/94	< 0.5	< 0.5	1.1	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	0.66	< 0.5	ND
	05/10/94	< 0.5	< 0.5	2.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/14/94	< 0.5	< 0.5	3.1	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/02/93	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	NA	< 10	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/02/93	< 0.5	NA	NA	0.5	< 0.5	< 0.5	NA	< 5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	0.56	< 0.5	ND
937GW15 (shallow)	03/15/06	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/23/05	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/18/04	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/10/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/18/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/06/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/20/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/05/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/06/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/04/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/06/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/07/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0907014A	09/07/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/17/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/20/00	< 0.5	< 0.5	NA	< 0.5 (U20)	< 0.5 (U20)	< 0.5	NA	NA	< 0.5 (U20)	< 0.5	< 5	< 0.5	< 0.5 (U20)	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5 (U20)	< 0.5 (U20)	< 0.5 (U20)	< 0.5	ND
	01/20/00	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/02/99	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/02/99	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/10/99	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/07/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/01/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	0.66	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/19/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/16/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/20/97	< 0.5	< 0.5	NA	0.89	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	ND
	08/21/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	8.4	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/02/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/04/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/05/96	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/09/96	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/15/96	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	01/23/96	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	10/19/95	< 0.5 U	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 0.5 U	< 5	< 0.5 U	< 0.5	< 4.5 U	< 0.5 U	NA	< 0.5 U	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 U	ND
	07/21/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/28/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/01/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/08/94	< 0.5	< 0.5	4.2	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	0.61	< 0.5	ND
	08/04/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	0.74	< 0.5	< 0.5	< 0.5	ND
	05/03/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/18/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/03/93	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	NA	< 10	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/03/93	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	NA	< 5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND

Table A-1-2
Results of VOC Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-DCE (cis & trans)	Cis-1,2-DCE	Trans-1,2-DCE	1,4-Dichloro-benzene	2-Butanone	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-benzene	Chloro-methane	Dichloro-methane	Ethyl-benzene	MTBE	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	--	--	**140,000**	**140,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**81**	**525**	--	--
937GW32R (deep)	03/14/06	< 0.5	< 0.5	NA	1.8	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/18/05	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/12/04	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/09/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/18/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	0.1 J	< 1 UJ	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/20/03	< 0.5	< 0.5	NA	0.7	< 0.5	NA	< 10	< 10	0.2 J	< 1	< 0.5	< 0.5	< 1	< 4	0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.3	ND
	12/05/02	< 0.5	< 0.5	NA	0.7	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/29/02	< 0.5	< 0.5	NA	0.8	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/04/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1.0	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/05/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/27/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/06/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0906011B	09/06/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/16/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/16/00	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	01/13/00	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/09/99	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/01/99	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/15/99	< 12	< 12	NA	< 12	< 12	< 12	NA	NA	< 12	< 12	< 120	< 12	< 12	< 110	< 12	NA	< 12	< 12	< 12	< 12	< 12	< 12	ND
	12/14/98	< 12	< 12	NA	< 12	< 12	< 12	NA	NA	< 12	< 12	< 120	< 12	< 12	< 110	< 12	NA	< 12	< 12	< 12	< 12	< 12	< 12	ND
	09/03/98	< 12	< 12	NA	< 12 (U18)	< 12 (U18)	< 12	NA	NA	< 12 (U18)	< 12	< 120	< 12	< 12 (U18)	< 110	< 12	NA	< 12	< 12	< 12 (U18)	< 12 (U18)	< 12 (U18)	< 12	ND
	05/27/98	< 12	< 12	NA	< 12	< 12	< 12	NA	NA	< 12	< 12	< 120	< 12	< 12	< 110	< 12	NA	< 12	< 12	< 12	< 12	< 12	< 12	ND
	02/24/98	< 12	< 12	NA	< 12	< 12	< 12	NA	NA	< 12	< 12	< 120	< 12	< 12	< 110	< 12	NA	< 12	< 12	< 12	< 12	< 12	< 12	ND
	11/25/97	< 12	< 12	NA	< 12	< 12	< 12	NA	NA	< 12	< 12	< 120	< 12	< 12	< 110	< 12	NA	< 12	< 12	< 12	< 12	< 12	< 12	ND
	08/26/97	< 5	< 5	NA	< 5	< 5	< 5	NA	NA	< 5	< 5	< 50	< 5	< 5	< 45	< 5	NA	< 5	< 5	< 5	< 5	< 5	< 5	ND
	06/04/97	< 2.5	< 2.5	NA	< 2.5	< 2.5	< 2.5	NA	NA	< 2.5	< 2.5	< 25	< 2.5	< 2.5	< 22	< 2.5	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	ND
	03/04/97	< 12	< 12	NA	< 12	< 12	< 12	NA	NA	< 12	< 12	< 120	< 12	< 12	< 110	< 12	NA	< 12	< 12	< 12	< 12	< 12	< 12	ND
	11/05/96	< 12	< 12	NA	< 12	< 12	< 12	< 250	< 250	< 12	< 12	< 120	< 12	< 12	< 110	< 12	NA	< 12	< 12	< 12	< 12	< 12	< 12	ND
	08/09/96	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/15/96	< 12	< 12	< 12	NA	NA	< 12	< 250	< 250	< 12	< 12	< 120	< 12	< 12	< 110	< 12	NA	< 12	< 12	< 12	< 12	< 12	< 12	ND
	01/23/96	< 12	< 12	< 12	NA	NA	< 12	< 250	< 250	< 12	< 12	< 120	< 12	< 12	< 110	< 12	NA	< 12	< 12	< 12	< 12	< 12	< 12	ND
	10/19/95	< 0.5 U	< 0.5	NA	2.9	< 0.5	NA	< 10	< 10	< 0.5	< 0.5 U	< 5	< 0.5 U	< 0.5	< 4.5 U	< 0.5 U	NA	< 0.5 U	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 U	ND
	07/20/95	< 12	< 12	< 12	NA	NA	NA	< 250	< 250	< 12	< 12	< 120	< 12	< 12	< 110	< 12	NA	< 12	< 12	< 12	< 12	< 12	< 12	ND
	04/27/95	< 12	< 12	< 12	NA	NA	NA	< 250	< 250	< 12	< 12	< 120	< 12	< 12	< 110	< 12	NA	< 12	< 12	< 12	< 12	< 12	< 12	ND
	02/13/95	< 12	< 12	< 12	NA	NA	NA	< 250	< 250	< 12	< 12	< 120	< 12	< 12	< 110	< 12	NA	< 12	< 12	< 12	< 12	< 12	< 12	ND
	11/01/94	< 5	< 5	< 5	NA	NA	NA	< 100	< 100	< 5	< 5	< 50	< 5	< 5	< 45	< 5	NA	< 5	< 5	< 5	< 5	< 5	< 5	ND
	07/29/94	< 0.5	< 0.5	1.6	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/06/94	< 0.5	< 0.5	0.81	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/10/94	< 0.5	< 0.5	2.9	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/10/93	< 0.5	NA	NA	7.2	< 0.5	< 0.5	NA	< 10	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/06/93	< 0.5	NA	NA	1.6	< 0.5	< 0.5	NA	< 5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND
937GW35 (shallow)	03/13/06	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	2	< 1	ND
	03/18/05	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.9	< 1	ND
	03/16/04	< 0.5	< 0.5	NA	0.7	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.4	< 0.5	ND
	12/09/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.1	< 0.5	< 0.5	ND
	08/20/03	< 0.5	< 0.5	NA	0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.4	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	0.7	< 0.5	ND
	03/20/03	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	< 0.5	< 0.5	ND
	12/05/02	< 0.5	< 0.5	NA	0.8	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1	2.4	< 0.5	ND
	08/29/02	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	0.3 J	< 1	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	3.8	< 0.5	ND
DUP0829023A	08/29/02	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	0.3 J	< 1	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	3.7	< 0.5	ND
	06/04/02	< 0.5	< 0.5	NA	0.8	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.8	0.6	< 0.5	ND
	03/05/02	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.1	< 0.5	< 0.5	ND
	11/27/01	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.1	< 0.5	< 0.5	ND
DUP1127011A	11/27/01	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.1	< 0.5	< 0.5	ND
	09/06/01	< 0.5	< 0.5	NA	0.8	< 0.5	NA	< 10	< 10	0.1 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	4.4	< 0.5	ND

Table A-1-2
Results of VOC Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-DCE (cis & trans)	Cis-1,2-DCE	Trans-1,2-DCE	1,4-Dichloro-benzene	2-Butanone	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-benzene	Chloro-methane	Dichloro-methane	Ethyl-benzene	MTBE	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	--	--	**140,000**	**140,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**81**	**525**	--	--
937GW35 (shallow)	05/16/01	< 0.5	< 0.5	NA	0.8	0.7	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.3	< 0.5	ND
	06/16/00	< 0.5	< 0.5	NA	0.78	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	0.59	7.1	< 0.5	ND
	09/01/99	< 0.5	< 0.5	NA	1.4	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	0.54	3.6	< 0.5	ND
	06/01/99	< 0.5	< 0.5	NA	0.91	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	7.1	< 0.5	ND
	03/09/99	< 0.5	< 0.5	NA	1	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	0.82	4.3	< 0.5	ND
	12/02/98	< 0.5	< 0.5	NA	1.2	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	0.61	7.4	< 0.5	ND
	09/03/98	< 0.5	< 0.5	NA	1.2	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	7.3	< 0.5	ND
	05/18/98	< 0.5	< 0.5	NA	1.8	0.53	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	0.7	2.9	< 0.5	ND
	02/11/98	< 0.5	< 0.5	NA	2	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	1.7	0.9	< 0.5	ND
	11/17/97	< 0.5	< 0.5	NA	1.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	0.61	9.7	< 0.5	ND
	08/18/97	< 0.5	< 0.5	NA	1.3	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.54 (U2)	9.7	< 0.5	ND
	05/27/97	< 0.5	< 0.5	NA	1	0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	7.8	< 0.5	ND
	03/03/97	< 0.5	< 0.5	NA	0.77	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	13	< 0.5	ND
	11/04/96	< 0.5	< 0.5	NA	1.2	0.51	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	8	< 0.5	ND
	08/08/96	< 0.5	< 0.5	0.96	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	1	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	14	< 0.5	ND
	04/09/96	< 0.5	< 0.5	1.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	0.9	3.8	< 0.5	ND
	01/17/96	< 0.5	< 0.5	2.4	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	1.9	4.5	< 0.5	ND
	10/16/95	< 0.5 U	< 0.5	NA	1.8	0.63	NA	< 10	< 10	< 0.5	< 0.5 U	35	< 0.5 U	< 0.5	< 4.5 U	< 0.5 U	NA	< 0.5 U	< 0.5	< 0.5	0.79	6.3	< 0.5 U	ND
	07/18/95	< 0.5	< 0.5	0.54	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	9.4	< 0.5	ND
	04/25/95	< 0.5	< 0.5	2.2	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	0.54	4.7	< 0.5	ND
	01/31/95	< 0.5	< 0.5	2.7	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	1.2	5.2	< 0.5	ND
	10/25/94	< 0.5	< 0.5	9.1	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	9.7	< 0.5	ND
	08/10/94	< 0.5	< 0.5	3.2	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	8.5	< 0.5	ND
	05/05/94	< 0.5	< 0.5	1.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	11	< 0.5	ND
	02/15/94	< 0.5	< 0.5	2.4	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	0.55	13	< 0.5	ND
	11/12/93	< 0.5	NA	NA	1.4	0.52	< 0.5	NA	< 10	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	6.1	< 0.5	ND
	08/09/93	< 0.5	NA	NA	2.1 (J5)	0.7 (J5)	< 0.5	NA	< 5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	8.6 (J5)	< 0.5	ND
937GW37 (shallow)	03/13/06	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/16/05	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/12/04	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/03/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/15/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 J,U	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/19/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/05/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/28/02	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/31/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/05/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/27/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/06/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/15/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 10	< 10 UJ	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/19/00	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	01/13/00	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/02/99	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/02/99	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/10/99	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/07/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/02/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/26/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/26/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/28/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/11/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/17/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND

Table A-1-2
Results of VOC Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-DCE (cis & trans)	Cis-1,2-DCE	Trans-1,2-DCE	1,4-Dichloro-benzene	2-Butanone	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-benzene	Chloro-methane	Dichloro-methane	Ethyl-benzene	MTBE	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	--	--	**140,000**	**140,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**81**	**525**	--	--
937GW37 (shallow)	11/15/96	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/20/96	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/23/96	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	01/31/96	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	10/30/95	< 0.5 U	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 0.5 U	< 5	< 0.5 U	< 0.5	< 4.5 U	< 0.5 U	NA	< 0.5 U	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 U	ND
	07/26/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/03/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/09/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	10/27/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/05/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/09/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/17/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/16/93	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	NA	< 10	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/10/93	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	NA	< 5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND
937GW38 (deep)	03/13/06	< 0.5	< 0.5	NA	0.7	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/16/05	< 0.5	< 0.5	NA	1 J+	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/12/04	< 0.5	< 0.5	NA	7.2	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/03/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/18/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 J,U	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/19/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	1	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	0.6	< 0.5	< 0.5	1.6	< 0.5	< 0.5	0.5	ND
	12/05/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/28/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/31/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/05/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/27/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/06/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/15/01	< 0.5	< 0.5	NA	15	2.7	< 0.5	< 10	< 10 UJ	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/19/00	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	01/11/00	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/02/99	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/02/99	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/10/99	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/03/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/01/98	< 0.5	< 0.5	NA	< 0.5 (U18)	< 0.5 (U18)	< 0.5	NA	NA	< 0.5 (U20)	< 0.5	< 5	< 0.5	< 0.86 (U18, U4)	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 0.5	ND
	05/26/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/26/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	ND
	12/02/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/27/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/10/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/13/97	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/13/96	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/16/96	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/09/96	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	01/17/96	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	10/16/95	< 0.5 U	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 0.5 U	< 5	< 0.5 U	< 0.5	< 4.5 U	< 0.5 U	NA	< 0.5 U	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 U	ND
	07/17/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/24/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	01/31/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	10/25/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/09/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/10/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/15/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/15/93	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	NA	< 10	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/09/93	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	NA	< 5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND

Table A-1-2
Results of VOC Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-DCE (cis & trans)	Cis-1,2-DCE	Trans-1,2-DCE	1,4-Dichloro-benzene	2-Butanone	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-benzene	Chloro-methane	Dichloro-methane	Ethyl-benzene	MTBE	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	--	--	**140,000**	**140,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**81**	**525**	--	--
937GW39 (deep)	03/13/06	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/17/05	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/12/04	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/05/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/18/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/20/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/05/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/28/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/31/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/05/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/27/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/07/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/18/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0518013BCL	05/18/01	< 0.5	< 1	NA	< 1	< 1	< 1	< 10	< 50	< 1	< 5	< 1	< 0.5	< 1	< 4	< 0.5	< 5	< 0.5	< 1	< 1	< 1	< 1	< 0.5	ND
937GW39CL	05/18/01	< 0.5	< 1	NA	< 1	< 1	< 1	< 10	< 50	< 1	< 5	< 5	< 0.5	< 1	< 5	< 0.5	< 5	< 0.5	< 1	< 1	< 1	< 1	< 0.5	ND
	06/16/00	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	01/13/00	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/02/99	< 0.5	< 0.5	NA	0.81	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/01/99	< 0.5	< 0.5	NA	1.4	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/09/99	< 0.5	< 0.5	NA	0.55	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/98	< 0.5	< 0.5	NA	1.1	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/31/98	< 0.5	< 0.5	NA	1.4	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/21/98	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/18/98	< 0.5	< 0.5	NA	0.85	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/03/97	< 0.5	< 0.5	NA	0.69	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/28/97	< 0.5	< 0.5	NA	1.2	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/16/97	< 0.5	< 0.5	NA	2.4	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/18/97	< 0.5	< 0.5	NA	3	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/18/96	< 0.5	< 0.5	NA	0.5	< 0.5	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/21/96	< 0.5	< 0.5	0.73	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/17/96	< 0.5	< 0.5	2.7	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	01/25/96	< 0.5	< 0.5	1.5	NA	NA	< 0.5	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	10/24/95	< 0.5 U	< 0.5	NA	1.3	< 0.5	NA	< 10	< 10	< 0.5	< 0.5 U	< 5	< 0.5 U	< 0.5	< 4.5 U	< 0.5 U	NA	< 0.5 U	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 U	ND
	07/31/95	< 0.5	< 0.5	2.6	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/08/95	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/01/95	< 0.5	< 0.5	0.76	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	10/26/94	< 0.5	< 0.5	1.2	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/12/94	< 0.5	< 0.5	0.68	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/11/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/16/94	< 0.5	< 0.5	< 0.5	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/15/93	< 0.5	NA	NA	< 0.5	< 0.5	< 0.5	NA	< 10	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/10/93	< 0.5	NA	NA	1.1 (J5)	< 0.5	< 0.5	NA	< 5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND
937GW42 (intermediate)	03/14/06	< 0.5	< 0.5	NA	20	17	NA	< 10	< 10	2.3	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.8	< 1	ND
	03/18/05	< 0.5	< 0.5	NA	88	43	NA	< 10	< 10	0.6	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	6.5	< 1	ND
	03/17/04	< 0.5	< 0.5	NA	26	2.5	NA	< 10	< 10	0.3 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.9	< 0.5	ND
	12/09/03	< 0.5	< 0.5	NA	12	2.2	NA	< 10	< 10	0.4 J	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.5	< 0.5	ND
	08/20/03	< 0.5	< 0.5	NA	15	3.6	NA	< 10	< 10	2.9	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.7	< 0.5	ND
	06/09/03	< 0.5	< 0.5	NA	5.5	3	NA	< 10	< 10	7.9	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.3	0.8	ND
	03/20/03	< 0.5	< 0.5	NA	20	3.4	NA	< 10	< 10	6.2	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	4.6	< 0.5	ND
	12/05/02	< 0.5	< 0.5	NA	9	2.8	NA	< 10 UJ	< 10 UJ	0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.4	< 0.5	ND
	08/29/02	< 0.5	< 0.5	NA	11	3.2	NA	< 10	< 10	1.1	< 1	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.1	< 0.5	ND
	06/04/02	< 0.5	< 0.5	NA	12	1.5	NA	< 10	< 10 UJ	0.2 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	4.2	< 0.5	ND
DUP0604021B	06/04/02	< 0.5	< 0.5	NA	11	1.3	NA	< 10	< 10 UJ	0.2 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.9	< 0.5	ND
937GW42CL	06/04/02	< 0.5	< 0.5	NA	8.6	0.71	NA	< 50	< 50 UJ	< 0.5	< 1	< 5	< 0.5	< 1	< 5	< 0.5	< 5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	1.5	< 1	ND
	03/06/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	61 J-	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0306022C	03/06/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	64 J-	< 0.5	0.6 J,J-	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND

Table A-1-2
Results of VOC Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-DCE (cis & trans)	Cis-1,2-DCE	Trans-1,2-DCE	1,4-Dichloro-benzene	2-Butanone	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-benzene	Chloro-methane	Dichloro-methane	Ethyl-benzene	MTBE	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	--	--	**140,000**	**140,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**81**	**525**	--	--
937GW42 (intermediate)	11/28/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	23	< 0.5	< 1 U	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP1128011C	11/28/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	22	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
937GW42CL	11/28/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 50	< 50	< 0.5	< 1	< 5	< 0.5	< 1	< 5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/06/01	< 0.7	< 0.7	NA	< 0.7	< 0.7	NA	15	160	< 0.7	< 1.4	8.4	< 0.7	< 1.4	< 5.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	ND
DUP0906011C	09/06/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	15	170	< 0.5	< 1	4	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	ND
	05/16/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 10	78	< 0.5	< 1	1.6	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/16/00	< 0.5	< 0.5	NA	0.64 (J5)	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.77	ND
	01/10/00	< 0.5	< 0.5	NA	8	1.3	< 0.5	NA	NA	0.19	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	3.7	< 0.5	ND
	09/03/98	< 1	< 1	NA	41 (J18)	9.2 (J18)	< 1	NA	NA	4.8 (J18)	< 1	< 10	< 1	1.3 (J18)	< 9	< 1	NA	< 1	< 1	< 1 (U18)	< 1 (U18)	14 (J18)	< 1	ND
	05/28/98	< 0.5	< 0.5	NA	16	3.1	< 0.5	NA	NA	1.4	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	7.5	< 0.5	ND
	02/24/98	< 0.5	< 0.5	NA	4	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/25/97	< 0.5	< 0.5	NA	5.5	0.86	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/26/97	< 0.5	< 0.5	NA	7.6	2.1	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	3.8	< 0.5	ND
	06/04/97	< 0.5	< 0.5	NA	3.1	1.8	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	4.8	< 0.5	ND
	03/10/97	< 0.5	< 0.5	NA	2.1	0.61	< 0.5	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/11/96	< 0.5	< 0.5	NA	5.2	9.4	< 0.5	< 10	< 10	1.1	< 0.5	< 5	< 0.5	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	4.2	< 0.5	ND
	08/14/96	< 0.5	< 0.5	14	NA	NA	< 0.5	0.92	< 10	0.9	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	6.4	< 0.5	ND
	04/12/96	< 0.5	< 0.5	9.8	NA	NA	< 0.5	< 10	< 10	1.1	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	27	< 0.5	ND
	01/22/96	< 0.5	< 0.5	47	NA	NA	< 0.5	< 10	< 10	0.95	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	8.3	< 0.5	ND
	10/20/95	< 0.5 U	< 0.5	NA	37	71	NA	< 10	< 10	2.4	< 0.5 U	< 5	< 0.5 U	< 0.5	< 4.5 U	< 0.5 U	NA	< 0.5 U	< 0.5	< 0.5	< 0.5	23	< 0.5 U	ND
	07/24/95	< 5	< 5	300	NA	NA	NA	< 100	< 100	4.6	< 5	< 50	< 5	< 5	< 45	< 5	NA	< 5	< 5	< 5	< 5	20	< 5	ND
	05/01/95	< 5	< 5	290	NA	NA	NA	< 100	< 100	< 5	< 5	< 50	< 5	< 5	< 45	< 5	NA	< 5	< 5	< 5	< 5	22	< 5	ND
	02/14/95	< 0.5	< 0.5	21	NA	NA	NA	< 10	< 10	0.26 (J28)	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	11	< 0.5	ND
	10/27/94	< 0.5	< 0.5	8	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	2	< 0.5	ND
	08/01/94	< 0.5	< 0.5	5.8	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	3.1	< 0.5	ND
	05/05/94	< 0.5	< 0.5	4	NA	NA	NA	< 10	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	0.84	< 0.5	ND
937GW101 (shallow)	03/13/06	< 0.5	< 0.5	NA	0.8	4.2	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/18/05	< 0.5	< 0.5	NA	2.1	10	NA	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.1	< 1	ND
	03/16/04	< 0.5	< 0.5	NA	7.8	4.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	30	< 0.5	ND
	12/04/03	< 0.5	< 0.5	NA	0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/12/03	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.8	< 0.5	ND
	06/04/03	< 0.5	< 0.5	NA	0.9	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	5.2	< 0.5	ND
	03/19/03	< 0.5	< 0.5	NA	< 0.5 U	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	12	< 0.5	ND
	12/10/02	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	2	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.3	< 0.5	ND
	08/28/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.2	< 0.5	ND
	06/04/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.1	< 0.5	ND
	03/08/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	0.8	< 0.5	< 0.5	< 0.5	ND
	11/27/01	< 0.5	< 0.5	NA	0.8	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/06/01	< 0.5	< 0.5	NA	1.0	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
937GW102 (intermediate)	03/13/06	< 0.5	< 0.5	NA	8	8.4	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.8	< 1	ND
	03/18/05	< 0.5	< 0.5	NA	14	14	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.8	< 1	ND
	03/16/04	< 0.5	< 0.5	NA	55	44	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2	< 0.5	ND
	12/04/03	< 0.5	< 0.5	NA	52	52	NA	< 10	< 10	0.1 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	18	< 0.5	ND
	08/12/03	< 0.5	< 0.5	NA	32	41	NA	< 10	< 10	0.2 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	20	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	32	49	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	37	< 0.5	ND
	03/19/03	< 0.5	< 0.5	NA	< 0.5 U	18	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	12	< 0.5	ND
	12/10/02	< 0.5	< 0.5	NA	13	33	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	12	< 0.5	ND
	08/28/02	< 0.5	< 0.5	NA	8.7	26	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	12	< 0.5	ND
	05/30/02	< 0.5	< 0.5	NA	6.8	10	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.9	< 0.5	ND
	03/08/02	< 0.5	< 0.5	NA	1.5	1.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/28/01	< 0.5	< 0.5	NA	18	27	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	8.8	< 0.5	ND
	09/06/01	< 0.5	< 0.5	NA	16	22	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	14	< 0.5	ND

Table A-1-2
Results of VOC Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-DCE (cis & trans)	Cis-1,2-DCE	Trans-1,2-DCE	1,4-Dichloro-benzene	2-Butanone	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-benzene	Chloro-methane	Dichloro-methane	Ethyl-benzene	MTBE	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	--	--	**140,000**	**140,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**81**	**525**	--	--
937GW103	03/13/06	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
(deep)	03/18/05	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/16/04	< 0.5	< 0.5	NA	0.9	0.6	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/03	< 0.5	< 0.5	NA	1.1	1	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP1204032A	12/04/03	< 0.5	< 0.5	NA	0.8	1.1	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
937GW103CL	12/04/03	< 0.5	< 0.5	1.7	NA	NA	< 0.5	< 5	< 10 R	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/12/03	< 0.5	< 0.5	NA	0.6	1	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	1.1	1.6	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/19/03	< 0.5	< 0.5	NA	< 0.5 U	3.4	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 U	< 0.5	ND
	12/10/02	< 0.5	< 0.5	NA	1.7	2.9	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	0.5	< 0.5	ND
	08/28/02	< 0.5	< 0.5	NA	2.4	3.3	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1	< 0.5	ND
	05/30/02	< 0.5	< 0.5	NA	3.7	4.8	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.2	< 0.5	ND
	03/08/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/27/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/06/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
937GW104	03/13/06	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
(shallow)	03/30/05	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/12/04	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/08/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/12/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 J,U	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/11/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/10/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/30/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/31/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/13/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/03/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	0.7 Jb	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/07/01	< 0.5 UJ	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
937GW105	03/13/06	< 0.5	< 0.5	NA	2.4	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.9	< 1	ND
(intermediate)	03/30/05	< 0.5	< 0.5	NA	0.8	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.3	< 1	ND
	03/16/04	< 0.5	< 0.5	NA	1	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	< 0.5	ND
	12/09/03	< 0.5	< 0.5	NA	0.8	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/15/03	< 0.5	< 0.5	NA	0.8	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0815031A	08/15/03	< 0.5	< 0.5	NA	0.7	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
937GW105CL	08/15/03	< 0.5	< 0.5	0.92	NA	NA	< 0.5	< 5	< 10	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/04/03	< 0.5	< 0.5	NA	0.9	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/19/03	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/10/02	< 0.5	< 0.5	NA	0.7	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/05/02	< 0.5	< 0.5	NA	0.8	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0905022A	09/05/02	< 0.5	< 0.5	NA	0.9	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/31/02	< 0.5	< 0.5	NA	0.8	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/13/02	< 0.5	< 0.5	NA	0.8	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/03/01	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/07/01	< 0.5	< 0.5	NA	0.9	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
937GW106	03/13/06	< 0.5	< 0.5	NA	0.6	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.6	< 0.5	< 1	ND
(shallow)	03/30/05	< 0.5	< 0.5	NA	0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.4	< 0.5	< 1	ND
	03/16/04	< 0.5	< 0.5	NA	1.3	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.8	< 0.5	< 0.5	ND
	12/09/03	< 0.5	< 0.5	NA	1.8	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.7	< 0.5	< 0.5	ND
	08/18/03	< 0.5	< 0.5	NA	2.3	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.7	< 0.5	< 0.5	ND
	06/04/03	< 0.5	< 0.5	NA	1.9	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.2	< 0.5	< 0.5	ND
	03/18/03	< 0.5	< 0.5	NA	1.2	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.6	< 0.5	< 0.5	ND
	12/10/02	< 0.5	< 0.5	NA	1.8	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.4	< 0.5	< 0.5	ND
	09/05/02	< 0.5	< 0.5	NA	1.9	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.8	< 0.5	< 0.5	ND
	05/31/02	< 0.5	< 0.5	NA	1.2	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.3	< 0.5	< 0.5	ND
	03/13/02	< 0.5	< 0.5	NA	1.2	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	4.7	< 0.5	< 0.5	ND
	11/29/01	< 0.5	< 0.5	NA	1.0	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.4	< 0.5	< 0.5	ND
	08/31/01	< 0.5	< 0.5	NA	1.0	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.9	< 0.5	< 0.5	ND

Table A-1-2
Results of VOC Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-DCE (cis & trans)	Cis-1,2-DCE	Trans-1,2-DCE	1,4-Dichloro-benzene	2-Butanone	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-benzene	Chloro-methane	Dichloro-methane	Ethyl-benzene	MTBE	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	--	--	**140,000**	**140,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**81**	**525**	--	--
937GW107	03/14/06	< 0.5	< 0.5	NA	13	8.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
(intermediate)	03/30/05	< 0.5	< 0.5	NA	9.8	8.4	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/16/04	< 0.5	< 0.5	NA	13	5.9	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/09/03	< 0.5	< 0.5	NA	12.0	4.2	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/18/03	< 0.5	< 0.5	NA	6.4	2.4	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0818031A	08/18/03	< 0.5	< 0.5	NA	6.1	2.3	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	5	1.9	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/18/03	< 0.5	< 0.5	NA	2.6	1.3	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/10/02	< 0.5	< 0.5	NA	5.2	2.4	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/05/02	< 0.5	< 0.5	NA	4.4	2	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0905022B	09/05/02	< 0.5	< 0.5	NA	4.5	2	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/31/02	< 0.5	< 0.5	NA	3.2	1.7	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/13/02	< 0.5	< 0.5	NA	4.4	2.1	NA	< 10	< 10 UJ	< 0.5	< 1	1.7	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/29/01	< 0.5	< 0.5	NA	14	5.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/31/01	< 0.5	< 0.5	NA	14	6.2	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
937GW108	03/13/06	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
(shallow)	03/17/05	< 0.5	< 0.5	NA	0.7	< 0.5	NA	< 10	< 10	0.1 J	< 1	< 0.5 UJ	0.8	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/19/04	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	0.9	< 1	< 0.5	3.6	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2	ND
	12/03/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	48	< 1	< 0.5	19	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	0.8	< 0.5	< 0.5	< 0.5	ND
DUP1203033B	12/03/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	46	< 1	< 0.5	17	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	0.8	< 0.5	< 0.5	< 0.5	ND
937GW108CL	12/03/03	< 1	< 1	< 1	NA	NA	1.8	< 10	< 20 R	34	< 2	< 10	15	< 1	1.9	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
	08/15/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	24	< 1 UJ	< 0.5	45 J-	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	1.1	< 0.5	< 0.5	< 0.5	1.9	ND
	06/03/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	46	< 1	< 0.5	53	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	1.3	< 0.5	< 0.5	1.6	ND
	03/19/03	0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	54	< 1	2.8	29	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	< 0.5	ND
DUP0319032A	03/19/03	0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	61	< 1	2.8	32	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	0.6	ND
	12/10/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	15	< 1	2.5	3.1	< 1	< 4	< 0.5	< 0.5 UJ	< 0.5	< 0.5	3.3	< 0.5	< 0.5	0.7	ND
DUP1210022A	12/10/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	15	< 1	1.4	4.3	< 1	< 4	< 0.5	< 0.5 UJ	< 0.5	< 0.5	2.9	< 0.5	< 0.5	1.2	ND
937GW108CL	12/10/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.92	< 5	< 10	17	< 1	< 5	3.5	< 0.5	< 0.5	0.57	< 0.5	< 0.5	< 0.5	4	< 0.5	< 0.5	1.69	ND
	09/05/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	54 J-	7.7	< 1	< 0.5	5	< 1	< 4	0.7	< 0.5	< 0.5	< 0.5	6	< 0.5	< 0.5	2.5	ND
	06/04/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10 UJ	< 10 UJ	30	< 1	< 0.5	39	< 1	< 4	0.9	< 0.5	< 0.5	< 0.5	1	< 0.5	< 0.5	4.2	ND
950GW108																								
(intermediate)	03/09/06	< 1	< 1	NA	150	81	NA	< 20	< 20	0.5 J	< 2	< 1	< 1	< 2	< 8	< 1	< 1	< 1	< 1	< 1	< 1	3.9	< 2	ND
DUP0309062A	03/09/06	< 0.5	< 0.5	NA	160	89	NA	< 10	< 10	0.4 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	4.5	< 1	ND
950GW108CL	03/09/06	< 0.5 U	< 0.5 U	280 D	190 D	95 D	< 0.5 U	< 10 U	< 10 U	< 0.5 U	< 1 U	< 5 U	< 0.5 U	< 1 U	< 4.5 U	< 0.5 U	< 2 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	5.8	< 1 U	ND
	03/31/05	< 1.3	< 1.3	NA	160	54	NA	< 25	< 25	0.3 J	< 2.5	< 1.3	< 1.3	< 2.5	< 10	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	5.1	< 2.5	ND
DUP0331052A	03/31/05	< 1.3	< 1.3	NA	170	58	NA	< 25	< 25	0.4 J	< 2.5	< 1.3	< 1.3	< 2.5	< 10	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	5.2	< 2.5	ND
950GW108CL	03/31/05	< 0.5 U	< 0.5 U	NA	130 D	42 D	< 0.5 U	< 10 U	< 10 U	< 0.5 U	< 1 U	< 5 U	< 0.5 U	< 1 U	< 4.5 U	< 0.5 U	< 2 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	5.9	< 1 U	ND
	03/16/04	< 1.3	< 1.3	NA	260	78	NA	< 25	< 25 UJ	0.3 J	< 2.5	< 1.3	< 1.3	< 2.5	< 10	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	8.6	< 1.3	ND
DUP0316042B	03/16/04	< 1	< 1	NA	280	83	NA	< 20	< 20 UJ	0.3 J	< 2	< 1	< 1	< 2	< 8	< 1	< 1	< 1	< 1	< 1	< 1	9.3	< 1	ND
	12/04/03	< 0.8	1.9	NA	270	100	NA	< 17	< 17	0.6 J	< 1.7	< 0.8	< 0.8	< 1.7	< 6.7	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	18	< 0.8	ND
	08/12/03	< 0.6	< 0.6	NA	240	78	NA	< 13	< 13	0.5 J	< 1.3	< 0.6	< 0.6	< 1.3	< 5	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	12	< 0.6	ND
	06/06/03	< 0.5	< 0.5	NA	170	55	NA	< 10	< 10	0.2 J	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	11	< 0.5	ND
	03/18/03	< 0.5	< 0.5	NA	170	52	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	13	< 0.5	ND
DUP0318031B	03/18/03	< 0.5	< 0.5	NA	170	52	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	13	< 0.5	ND
950GW108CL	03/18/03	< 5	< 5	160	NA	NA	< 5	< 50 UJ	< 100 UJ	< 5	< 10	< 50 UJ	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 0.5	6.7	< 5	ND
	12/11/02	< 1	< 1	NA	260	74	NA	< 20	< 20	< 1	< 2	< 1	< 1	< 2	< 8	< 1	< 1 UJ	< 1	< 1	< 1	< 1	7.8	< 1	ND
	08/29/02	< 1	< 1	NA	250	65	NA	< 20	< 20	< 1	< 2	< 1	< 1	< 2	< 8	< 1	< 1	< 1	< 1	< 1	< 1	7.6	< 1	ND
DUP0829022A	08/29/02	< 0.5	< 0.5	NA	240	70	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	9.1	< 0.5	ND
950GW108CL	08/29/02	16	< 0.5	NA	190	57	NA	22 J	< 50	0.23 J	< 1	< 5	< 0.5	< 1 UJ	< 5 J,U	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	7.8	< 1	ND
	06/04/02	< 1	< 1	NA	280	66	NA	< 20	< 20 UJ	< 1	< 2	< 1	< 1	< 2	< 8	< 1	< 1	3.4	< 1	< 1	< 1	7.2	< 1	ND
DUP0604021A	06/04/02	< 0.7	< 0.7	NA	280	61	NA	< 14 UJ	< 14 UJ	< 0.7	< 1.4	< 0.7	< 0.7	< 1.4	< 5.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	6.7	< 0.7	ND
950GW108CL	06/04/02	9.3	< 2.5	NA	200	44	NA	< 250	< 250 UJ	< 2.5	< 5	< 25	< 2.5	< 5	3.4 J	< 2.5	< 25 UJ	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 5	ND
	03/14/02	< 0.5	< 0.5	NA	180	45	NA	< 10	< 10 UJ	0.2 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	8.5	< 0.5	ND
DUP0314022A	03/14/02	< 1	< 1	NA	200	30	NA	< 20	< 10 UJ	< 1	< 2	< 1	< 1	< 2	< 8	< 1	< 1	< 1	< 1	< 1	< 1	3.5	< 1	ND
950GW108CL	03/14/02	< 2	< 2	NA	200	36	< 2	< 200 R	< 200	< 2	< 4	< 20	< 2	< 4	< 20 UJ	< 2	< 20	< 2	< 2	< 2	< 2	6.1	< 4	ND
	11/30/01	< 0.7	< 0.7	NA	280	16	NA	< 14	< 14 UJ	0.2 J	< 1.4	< 0.7	< 0.7	< 1.4	< 5.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	2.2	15	< 0.7	ND
DUP1130011A	11/30/01	< 0.7	< 0.7	NA	260	15	NA	< 14	< 14 UJ	< 7	< 1.4	< 0.7	< 0.7	< 1.4	< 5.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	0.9	14	< 0.7	ND
	09/06/01	< 0.7 UJ	< 0.7	NA	200	10	NA	< 14	< 14 UJ	0.3 J	< 1.4 UJ	<0.7	< 0.7	< 1.4 UJ	< 5.7	< 0.7	< 0.7	< 0.7	< 0.7	<0.7	<0.7	9.4	< 0.7	ND

Table A-1-2
Results of VOC Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-DCE (cis & trans)	Cis-1,2-DCE	Trans-1,2-DCE	1,4-Dichloro-benzene	2-Butanone	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-benzene	Chloro-methane	Dichloro-methane	Ethyl-benzene	MTBE	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	--	--	**140,000**	**140,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**81**	**525**	--	--
979GW109	03/14/06	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
(shallow)	03/18/05	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10 UJ	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/16/04	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	ND
	03/16/04	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	ND
	12/09/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/20/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	ND
	06/06/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	< 0.5	< 0.5	ND
	03/19/03	< 0.5	< 0.5	NA	< 0.5 U	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 U	< 0.5 U	< 0.5	ND
	12/10/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP1210022B	12/10/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/29/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	< 0.5	< 0.5	ND
	06/04/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	< 0.5	< 0.5	ND
	03/08/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	ND
	11/28/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 U	0.8	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	ND
	09/07/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10 UJ	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	< 0.5	< 0.5	ND
979GW110	03/14/06	< 0.5	< 0.5	NA	6.7	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.9	< 1	ND
(intermediate)	03/18/05	< 0.5	< 0.5	NA	3.2	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5 UJ	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/16/04	< 0.5	< 0.5	NA	0.9	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/03	< 0.5	< 0.5	NA	6.6	0.7	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/12/03	< 0.5	< 0.5	NA	1.2	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/05/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/19/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0319032B	03/19/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/11/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/29/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/30/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/14/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/28/01	< 0.5	< 0.5	NA	5.7	< 0.5	NA	< 10	< 10 UJ	0.7	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	1.7	< 0.5	< 0.5	0.6	ND
	09/07/01	< 0.5	< 0.5	NA	3.6	0.6	NA	< 10 UJ	< 10	< 0.5	< 1	0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
979GW111R	03/13/06	< 0.5	< 0.5	NA	3.9	4.8	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	47	< 0.5	< 1	ND
(intermediate)	03/30/05	< 0.5	< 0.5	NA	4.3	6.6	NA	< 10	< 10	0.2 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	35	0.6	< 1	ND
	03/12/04	< 0.5	< 0.5	NA	12	5.9	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	36	1.2	< 0.5	ND
	12/09/03	< 0.5	< 0.5	NA	14	5.4	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	34	1.1	< 0.5	ND
	08/12/03	< 0.5	< 0.5	NA	7.9	5.2	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	41	0.5	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	4.2	6.8	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	64	< 0.5	< 0.5	ND
	03/11/03	< 0.5	< 0.5	NA	6.7	5.7	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	65	0.7	< 0.5	ND
	12/10/02	< 0.5	< 0.5	NA	9.5	4.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	25	< 0.5	< 0.5	ND
	08/30/02	< 0.5	< 0.5	NA	11	5.9	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	36	0.8	< 0.5	ND
	06/05/02	< 0.5	< 0.5	NA	11	6.0	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	49	1.1	< 0.5	ND
979GW112	03/14/06	< 0.5	< 0.5	NA	16	7.8	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	30	1.5	< 1	ND
(shallow)	03/30/05	< 0.5	< 0.5	NA	9.7	8.1	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	27	2.9	< 1	ND
	03/12/04	< 0.5	< 0.5	NA	22	5.5	NA	< 10	< 10 UJ	< 0.5	0.5 J	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	27	3.1	< 0.5	ND
DUP0312041A	03/12/04	< 0.5	< 0.5	NA	22	5.7	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	26	3.3	< 0.5	ND
979GW112CL	03/12/04	< 0.5	< 0.5	27	NA	NA	< 0.5	< 5	< 10 R	< 0.5	< 1	< 5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	28	2.3	< 0.5	ND
	12/09/03	< 0.5	< 0.5	NA	23	6.1	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	29	2.3	< 0.5	ND
	08/15/03	< 0.5	< 0.5	NA	16	4.8	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	29	1.1	< 0.5	ND
DUP0815031B	08/15/03	< 0.5	< 0.5	NA	15	5.2	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	33	1.1	< 0.5	ND
979GW112CL	08/15/03	< 0.5	< 0.5	24	NA	NA	< 0.5	< 5	< 10	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	41	1.3	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	14	5.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	39	1	< 0.5	ND
	03/18/03	< 0.5	< 0.5	NA	9.4	3.9	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	34	1.4	< 0.5	ND
	12/10/02	< 0.5	< 0.5	NA	16	6.1	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	27	0.5	< 0.5	ND
DUP1210021A	12/10/02	< 0.5	< 0.5	NA	19	7	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	28	1	< 0.5	ND
979GW112CL	12/10/02	< 0.5	< 0.5	26 J+	NA	NA	< 0.5	< 5	< 10	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	28	1.5 J+	< 0.5	ND
	08/30/02	< 0.5	< 0.5	NA	15	6.9	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	33	1.4	< 0.5	ND
	06/05/02	< 0.5	< 0.5	NA	20	4.4	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	29	2.1	< 0.5	ND
	03/14/02	< 0.5	< 0.5	NA	26	7.1	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	42	3.7	< 0.5	ND
	12/03/01	< 0.5	< 0.5	NA	4	0.9	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	7.1	4.8	< 0.5	ND
	08/31/01	< 0.5	< 0.5	NA	4.8	1.1	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	8.7	5.5	< 0.5	ND

Table A-1-2
Results of VOC Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-DCE (cis & trans)	Cis-1,2-DCE	Trans-1,2-DCE	1,4-Dichloro-benzene	2-Butanone	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-benzene	Chloro-methane	Dichloro-methane	Ethyl-benzene	MTBE	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	--	--	**140,000**	**140,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**81**	**525**	--	--
979GW113	03/14/06	< 0.5	< 0.5	NA	11	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.9	0.8	< 1	ND
(shallow)	03/18/05	< 0.5	< 0.5	NA	7.4	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.1	0.6	< 1	ND
	03/16/04	< 0.5	< 0.5	NA	2.7	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.7	< 0.5	< 0.5	ND
	12/04/03	< 0.5	< 0.5	NA	0.7	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1	< 0.5	< 0.5	ND
	08/12/03	< 0.5	< 0.5	NA	1.7	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2	< 0.5	< 0.5	ND
	06/05/03	< 0.5	< 0.5	NA	1.6	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.5	< 0.5	< 0.5	ND
	03/19/03	< 0.5	< 0.5	NA	<0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	ND
	12/10/02	< 0.5	< 0.5	NA	0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	0.9	< 0.5	< 0.5	ND
	08/28/02	< 0.5	< 0.5	NA	3.4	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.1	0.7	< 0.5	ND
	05/30/02	< 0.5	< 0.5	NA	4.1	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.2	0.5	< 0.5	ND
	03/13/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	< 0.5	< 0.5	ND
DUP0313022A	03/13/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/29/01	< 0.5	< 0.5	NA	0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	< 0.5	< 0.5	ND
	09/07/01	< 0.5	< 0.5	NA	0.8	< 0.5	NA	< 10 UJ	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.9	< 0.5	< 0.5	ND
979GW114	03/14/06	< 0.5	< 0.5	NA	1	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
(intermediate)	03/18/05	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/16/04	< 0.5	< 0.5	NA	2	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0316042A	03/16/04	< 0.5	< 0.5	NA	2.1	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
(intermediate)	12/04/03	< 0.5	< 0.5	NA	29	1.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.7	< 0.5	ND
	08/12/03	< 0.5	< 0.5	NA	33	1.3	NA	< 10	< 10	0.1 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.1	< 0.5	ND
	06/04/03	< 0.5	< 0.5	NA	29	0.8	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	ND
	03/19/03	< 0.5	< 0.5	NA	< 0.5 U	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/10/02	< 0.5	< 0.5	NA	36	1.1	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	1.4	< 0.5	ND
	08/28/02	< 0.5	< 0.5	NA	31	0.9	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.8	< 0.5	ND
	05/30/02	< 0.5	< 0.5	NA	8.7	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0530021D	05/30/02	< 0.5	< 0.5	NA	8.6	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	ND
	03/13/02	< 0.5	< 0.5	NA	25	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.9	< 0.5	ND
	11/29/01	< 0.5	< 0.5	NA	16	0.6	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.1	< 0.5	ND
	09/07/01	< 0.5	< 0.5	NA	9.1	< 0.5	NA	< 10 UJ	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
979GW115	03/13/06	< 0.5	< 0.5	NA	27	1.3	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2	< 1	ND
(shallow)	03/30/05	< 0.5	< 0.5	NA	21	1.3	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.5	< 1	ND
	03/12/04	< 0.5	< 0.5	NA	2.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	1.2	< 0.5	ND
	12/09/03	< 0.5	< 0.5	NA	2.8	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.5	< 0.5	< 0.5	ND
	08/12/03	< 0.5	< 0.5	NA	4.9	0.6	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.8	0.6	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	13	0.9	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1	1.2	< 0.5	ND
	03/18/03	< 0.5	< 0.5	NA	46	3.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.9	3	< 0.5	ND
	12/11/02	< 0.5	< 0.5	NA	3.6	0.6	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	1.8	1.5	< 0.5	ND
DUP1211021A	12/11/02	< 0.5	< 0.5	NA	3.1	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	2	1.5	< 0.5	ND
	08/30/02	< 0.5	< 0.5	NA	2.1	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2	1	< 0.5	ND
	06/05/02	< 0.5	< 0.5	NA	6.3	0.8	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.1	2.6	< 0.5	ND
DUP0605021B	06/05/02	< 0.5	< 0.5	NA	6.5	0.8	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1	2.8	< 0.5	ND
979GW115CL	06/05/02	< 0.5	< 0.5	NA	3.2	< 0.5	NA	< 50	< 50 UJ	< 0.5	< 1	< 5	< 0.5	< 1	< 4	< 0.5	< 5 UJ	< 0.5	< 0.5	< 0.5	0.26 J	< 0.5	< 0.5	ND
	03/13/02	< 0.5	< 0.5	NA	10	1.3	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.4	4	< 0.5	ND
	11/29/01	< 0.5	< 0.5	NA	3.3	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	4.6	0.6	< 0.5	ND
	08/29/01	< 0.5	< 0.5	NA	3.4	0.6	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	4.3	< 0.5	< 0.5	ND
979GW116																								
(intermediate)	03/14/06	< 0.5	< 0.5	NA	50	2.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0314061A	03/14/06	< 0.5	< 0.5	NA	50	2.6	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/31/05	< 0.5	< 0.5	NA	79	3.3	NA	< 10	< 10	0.5 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 1	ND
DUP0331052B	03/31/05	< 0.5	< 0.5	NA	80	2.9	NA	< 10	< 10	0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.8	< 1	ND
979GW116CL	03/31/05	< 0.5 U	< 0.5 U	NA	54 D	3.2	< 0.5 U	< 10 U	< 10 U	< 0.5 U	< 1 U	< 5 U	< 0.5 U	< 1 U	< 4.5 U	< 0.5 U	< 2 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	0.74	< 1 U	ND
	03/16/04	< 0.5	< 0.5	NA	62	1.8	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/09/03	< 0.5	< 0.5	NA	45	1.8	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	< 0.5	ND
	08/18/03	< 0.5	< 0.5	NA	54	1.9	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.9	< 0.5	ND
	06/04/03	< 0.5	< 0.5	NA	68	2.1	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.3	0.8	< 0.5	ND
DUP0604031A	06/04/03	< 0.5	< 0.5	NA	82	2.6	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.6	1	< 0.5	ND
	03/19/03	< 0.5	0.6	NA	78	2.1	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.7	< 0.5	< 0.5	ND
DUP0319031A	03/19/03	< 0.5	0.6	NA	81	2.1	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.9	< 0.5	< 0.5	ND

Table A-1-2
Results of VOC Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-DCE (cis & trans)	Cis-1,2-DCE	Trans-1,2-DCE	1,4-Dichloro-benzene	2-Butanone	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-benzene	Chloro-methane	Dichloro-methane	Ethyl-benzene	MTBE	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		--	--	--	**140,000**	**140,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**81**	**525**	--	--
979GW116 (intermediate)	12/10/02	< 0.5	< 0.5	NA	35	1.2	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/05/02	< 0.5	< 0.5	NA	57	1.7	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	< 0.5	ND
DUP0905022C	09/05/02	< 0.5	< 0.5	NA	57	1.7	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	ND
979GW116CL	09/05/02	< 0.5	< 0.5	NA	51	1.5	NA	< 50 R	< 50	< 0.5	< 1	< 5	< 0.5	< 1	< 5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	0.39 J	0.64	< 1	ND
	06/06/02	< 0.5	< 0.5	NA	89	2	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1	1.1	< 0.5	ND
	03/14/02	< 0.5	< 0.5	NA	120	2.4	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	1.4	< 0.5	ND
DUP0314021A	03/14/02	< 0.5	< 0.5	NA	120	2.3	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.5	< 0.5	ND
979GW116CL	03/14/02	< 0.5	< 0.5	NA	78	< 0.5	< 0.5	< 50 R	< 50	< 0.5	< 1	< 5	< 0.5	< 1	< 5 UJ	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	1.5	< 1	ND
	11/29/01	< 0.5	< 0.5	NA	34	1.7	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	5.1	< 0.5	ND
DUP1129011A	11/29/01	< 0.5	< 0.5	NA	34	1.6	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	4.7	< 0.5	ND
979GW116CL	11/29/01	< 0.5	< 0.5	NA	32	2.1	< 0.5	< 50	< 10	< 0.5	< 1	< 5	< 0.5	< 1	< 4	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	5.6	< 0.5	ND
	08/29/01	< 0.5	< 0.5	NA	29	1.8	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
979GW117 (deep)	03/13/06	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/17/05	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/12/04	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/08/03	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/12/03	< 0.5	< 0.5	NA	1.6	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/03/03	< 0.5	< 0.5	NA	0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/18/03	< 0.5	< 0.5	NA	2.6	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/10/02	< 0.5	< 0.5	NA	0.7	< 0.5	NA	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/30/02	< 0.5	< 0.5	NA	0.8	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/31/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/13/02	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10 UJ	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/29/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/29/01	< 0.5	< 0.5	NA	< 0.5	< 0.5	NA	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in their respective quarterly reports.
2 - Groundwater cleanup levels were taken from the *Final RAP, Crissy Field Area* , Presidio of San Francisco, California (Army, Headquarters, I Corps, and Fort Lewis and California DTSC, 1998).
Concentrations in **BOLD** indicate an exceedance of applicable cleanup levels.
µg/L - micrograms per liter
ND - Not Detected
NA - Not analyzed
1,2-DCE - 1,2-Dichloroethene
Cis-1,2-DCE - cis-1,2-Dichloroethene
Trans-1,2-DCE - trans-1,2-Dichloroethene
MTBE - Methyl tert-butyl ether
TCE - Trichloroethene
PCE - Tetrachloroethene
VOC - Volatile organic compound
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.
-- - Clean up concentrations not established.

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	**Sample Date**	**TPH as Gasoline (Carbon Range C_7-C_{12})**	**TPH as Diesel (Carbon Range C_{12}-C_{24})**	**TPH as Fuel Oil (Carbon Range C_{24}-C_{36})**
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
937GW06 (shallow)	03/14/06	< 50	< 50	< 300
	03/17/05	< 50	< 50	< 300
	03/16/04	< 50	< 50	< 300
	12/05/03	< 50	< 50	< 300
	08/18/03	< 50	< 50	< 300
	06/03/03	< 50	< 50	< 300
	03/20/03	< 50	< 50	< 300
	12/05/02	< 50	< 50	< 300
	08/28/02	< 50	< 50	< 300
	05/31/02	< 50	< 50	< 300
	03/05/02	< 50	< 50	< 300
	11/27/01	< 50	< 50	< 300
	09/06/01	< 50	< 50 [2]	< 300 [2]
	05/16/01	< 50	< 50	< 300
	06/20/00	< 50 (U20)	< 50 (U12, U20, U21)	< 300 (U21)
	01/10/00	< 50	< 50 (U12)	< 300
	09/01/99	< 50	< 50	< 300
	06/01/99	< 50	< 50	< 300
	03/15/99	< 50	< 50	< 300
	12/14/98	< 50	< 50	< 300
	09/03/98	< 50 (U18)	< 50	< 300
	05/27/98	< 50	< 50	< 300
	02/24/98	< 50	< 50	< 300
	11/25/97	< 50	< 50	< 300
	08/26/97	< 50	< 50	< 300
	06/04/97	< 50	< 50	< 300
	03/10/97	< 50 (U29)	< 50 (U29)	< 300 (U29)
	11/11/96	< 50	< 50	< 300
	08/14/96	< 50	61 (J25)	< 300
	04/15/96	< 50	< 50	< 300
	01/23/96	< 50	< 50	350 (J25, J32)
	10/19/95	< 50	< 50	< 300
	07/19/95	< 50	< 50	< 300
	04/26/95	< 50	89 (J25)	NA
	02/03/95	< 50	< 50	NA
	11/07/94	< 50	< 50	NA
	07/28/94	< 50	310 (J25)	NA
	04/28/94	< 50	< 50	NA
	02/11/94	< 50	< 50	NA
	11/01/93	< 50	< 50	NA
	08/02/93	< 50	< 50	NA

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	**Sample Date**	**TPH as Gasoline (Carbon Range C_7-C_{12})**	**TPH as Diesel (Carbon Range C_{12}-C_{24})**	**TPH as Fuel Oil (Carbon Range C_{24}-C_{36})**
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
937GW07 (shallow)	03/14/06	< 50	< 50	< 300
	03/23/05	< 50	< 50	< 300
	03/18/04	< 50	< 50	< 300
	12/10/03	< 50	< 50	< 300
	08/18/03	< 50	< 50	< 300
	06/06/03	< 50	< 50	< 300
	03/20/03	< 50	< 50	< 300
	12/05/02	< 50	< 50	< 300
	09/06/02	< 50	< 50	< 300
	06/04/02	< 50	< 50	< 300
	03/06/02	< 50	< 50	< 300
	12/04/01	< 50	< 50	< 300
	09/07/01	< 50	< 50 [2]	< 300 [2]
	05/18/01	< 50	< 50	< 300
	06/20/00	< 50 (U20)	< 50 (U12, U20, U21)	< 300 (U12, U20, U21)
	01/20/00	< 50	< 50 (U6, U12)	< 300 (U6)
	12/07/98	< 50	< 50	< 300
	09/02/98	< 50 (U18)	< 50	< 300
	05/19/98	< 50	< 50	< 300
	02/25/98	< 50	< 50	< 300
	12/01/97	< 50	< 50	< 300
	08/27/97	< 50	< 50	< 300
	06/16/97	< 50	< 50	< 300
	03/18/97	< 50	< 50	< 300
	11/18/96	< 50	< 50	< 300
	08/21/96	< 50	< 50	< 300
	04/17/96	< 50	< 50	< 300
	01/25/96	93 (J25)	62 (J25)	< 3000 (U23)
	10/24/95	< 50	< 50	< 300
	07/27/95	< 50	< 50	< 300
	05/04/95	< 50	81 (J25)	NA
	02/03/95	< 50	130 (J25)	NA
	11/02/94	< 50	< 50	NA
	08/11/94	< 50	130 (J25)	NA
	05/11/94	< 50	< 50	NA
	02/11/94	< 50	88 (J25)	NA
	11/02/93	< 50	< 50	NA
	07/30/93	< 50	< 50	NA

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
937GW12 (shallow)	03/13/06	< 50	< 50	< 300
	03/16/05	< 50	< 50	< 300
	03/12/04	< 50	< 50	< 300
	12/03/03	< 50	< 50	< 300
	08/18/03	< 50	< 50	< 300
	06/03/03	< 50	< 50	< 300
	03/20/03	< 50	< 50	< 300
	12/05/02	< 50	< 50	< 300
	08/28/02	< 50	< 50	< 300
	05/31/02	< 50	< 50	< 300
	03/05/02	< 50	< 50	< 300
	11/27/01	< 50	< 50	< 300
	09/06/01	< 50	110 [2] YH,NJ	< 300 [2] NJ
	05/15/01	< 50	< 50	< 300
	09/07/00	NA	< 50	< 300
	06/19/00	< 50	150 (J12, J21)	< 300 (U12, U21)
	01/11/00	< 50	< 50 (U12)	< 300
	09/01/99	< 50	< 50	< 300
	06/02/99	< 50	< 50	< 300
	03/10/99	< 50	< 50	< 300 (U12)
	12/07/98	< 50	< 50	< 300
	09/01/98	< 50 (U18)	< 50	< 300
	05/26/98	< 50	< 50	< 300
	02/25/98	< 50	< 50	< 300
	12/01/97	< 50	< 50	< 300
	08/27/97	< 50	< 50	< 300
	06/10/97	< 50	< 50	< 300
	03/13/97	< 50	< 50	< 300
	11/13/96	< 50	< 50	< 300
	08/16/96	< 50	250 (J25)	460 (J25)
	05/20/96	< 50	< 50	< 300
	01/26/96	< 50	< 50	< 3000 (U23)
	10/25/95	< 50	< 50	< 300
	07/26/95	< 50	< 50	< 300
	05/03/95	< 50	< 50	NA
	02/09/95	< 50	140 (J25)	NA
	11/01/94	< 50	71 (J25)	NA
	08/10/94	< 50	110 (J25)	NA
	05/10/94	< 50	62 (J25)	NA
	02/14/94	< 50	72 (J25)	NA
	11/02/93	< 50	< 50	NA
	08/02/93	< 50	< 50	NA

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
937GW15 (shallow)	03/15/06	< 50	< 50	< 300
	03/23/05	< 50	< 50	< 300
	03/18/04	< 50	< 50	< 300
	12/10/03	< 50	< 300	< 300
	08/18/03	< 50	< 50	< 300
	06/06/03	< 50	< 50	< 300
	03/20/03	< 50	< 50	< 300
	12/05/02	< 50	< 50	< 300
	09/06/02	< 50	< 50	< 300
	06/04/02	< 50	< 50	< 300
	03/06/02	< 50	< 50	< 300
	12/04/01	< 50	< 50	< 300
	09/07/01	< 50	< 50 [2]	< 300 [2]
DUP0907014A	09/07/01	< 50	< 50 [2]	< 300 [2]
	05/17/01	< 50	< 50	< 300
	06/20/00	< 50 (U20)	< 50 (U12, U20, U21)	< 300 (U12, U20, U21)
	01/20/00	< 50	< 50 (U12)	< 300
	09/02/99	< 50	< 50	< 300
	06/02/99	< 50	< 50	< 300
	03/10/99	< 50	< 50	< 300
	12/07/98	< 50	< 50	< 300
	09/01/98	< 50	< 50	< 300
	05/19/98	< 50	< 50	< 300
	02/16/98	< 50	< 50	< 300
	11/20/97	< 50	230 (J25)	< 300
	08/21/97	< 50	150 (R32)	< 300
	06/02/97	< 50	< 50	< 300
	03/04/97	< 50 (U6)	< 50	< 300
	11/05/96	< 50	< 50	< 300
	08/09/96	< 50	< 50	< 300
	04/15/96	< 50	< 50	< 300
	01/23/96	< 50	< 50	< 300
	10/19/95	< 50	< 50	< 300
	07/21/95	< 50	< 50	< 300
	04/28/95	< 50	98 (J25)	NA
	02/01/95	< 50	52 (J25)	NA
	11/08/94	< 50	< 50	NA
	08/04/94	< 50	350 (J25)	NA
	05/03/94	< 50	< 50	NA
	02/18/94	< 50	< 50	NA
	11/03/93	< 50	55 (J25)	NA
	08/03/93	< 50	< 50	NA

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
937GW32R (deep)	03/14/06	< 50	< 50	< 300
	03/18/05	< 50	< 50	< 300
	03/12/04	< 50	< 50	< 300
	12/09/03	< 50	< 50	< 300
	08/18/03	< 50	< 50	< 300
	06/03/03	< 50	< 50	< 300
	03/20/03	< 50	< 50	< 300
	12/05/02	< 50	< 50	< 300
	08/29/02	< 50	< 50	< 300
	06/04/02	< 50	< 50	< 300
	03/05/02	< 50	< 50	< 300
	11/27/01	< 50	< 50	< 300
	09/06/01	< 50	< 50 [2]	< 300 [2]
DUP0906011B	09/06/01	< 50	< 50 [2]	< 300 [2]
	05/16/01	< 50	< 50	< 300
	09/11/00	NA	270	< 300
	06/16/00	< 50	1,300 (J21)	< 1,500 (U21)
	01/13/00	< 50	1,700 (J21)	< 300
	09/09/99	< 50	< 50	< 300
	06/01/99	< 50	< 50	< 300
	03/15/99	< 500	< 50	< 300
	12/14/98	< 50	< 50	< 300
	09/03/98	< 50 (U18)	< 50	< 300
	05/27/98	< 50	< 50	< 300
	02/24/98	< 50	< 50	< 300
	11/25/97	< 50	< 50	< 300
	08/26/97	< 50	< 50	< 300
	06/04/97	< 50	< 50	< 300
	03/04/97	< 50 (U6)	< 50	< 300
	11/05/96	< 50	< 50	< 300
	08/09/96	< 50	< 50	< 300
	04/15/96	< 50	< 50	< 300
	01/23/96	< 50	< 50	< 300
	10/19/95	< 50	< 50	< 300
	07/20/95	< 50	< 50	< 300
	04/27/95	< 500	72 (J25, J6)	NA
	02/13/95	< 50	70 (J25)	NA
	11/01/94	< 50	160 (J25)	NA
	07/29/94	< 50	100 (J25)	NA
	05/06/94	< 50	< 50	NA
	02/10/94	< 50	< 50	NA
	11/10/93	< 50	< 50	NA
	08/06/93	< 50	< 50	NA

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
937GW35 (shallow)	03/13/06	< 50	< 50	< 300
	03/18/05	< 50	< 50	< 300
	03/16/04	< 50	< 50	< 300
	12/09/03	< 50	< 50	< 300
	08/20/03	< 50	< 50	< 300
	06/03/03	< 50	< 50	< 300
	03/20/03	< 50	< 50	< 300
	12/05/02	< 50	< 50	< 300
	08/29/02	< 50	< 50	< 300
DUP0829023A	08/29/02	< 50	< 50	< 300
	06/04/02	< 50	< 50	< 300
	03/05/02	< 50	< 50	< 300
	11/27/01	< 50	< 50	< 300
DUP1127011A	11/27/01	< 50	< 50	< 300
	09/06/01	< 50	740 [2] YH,NJ	520 [2] YL,NJ
	05/16/01	< 50	< 50	< 300
	09/07/00	NA	< 50 (U5)	< 300
	06/16/00	< 50	54 (J21)	< 300
	09/01/99	< 50	< 50	< 300
	06/01/99	< 50	< 50	< 300
	03/09/99	< 50	< 50 (U6)	< 300
	12/02/98	< 50	< 50	< 300
	09/03/98	< 50	< 50	< 300
	05/18/98	< 50	< 50	< 300
	02/11/98	< 50	< 50	< 300
	11/17/97	< 50	< 50	< 300
	08/18/97	< 50	< 50	< 300
	05/27/97	< 50	< 50	< 300
	03/03/97	< 50 (U6)	< 50	< 300
	11/04/96	< 50	< 50	< 300
	08/08/96	< 50	< 50	< 300
	04/09/96	320 (J25)	< 50	< 300
	01/17/96	< 50	< 50	< 300
	10/16/95	< 50	< 50	< 300
	07/18/95	< 50	< 50	< 300
	04/25/95	< 50	< 50	NA
	01/31/95	< 50	< 50	NA
	10/25/94	< 50	< 50	NA
	08/10/94	< 50	< 50 (U9)	NA
	05/05/94	< 50	< 50	NA
	02/15/94	< 50	51 (J25)	NA
	11/12/93	< 50	< 50	NA
	08/09/93	< 50	< 50	NA

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
937GW37 (shallow)	03/13/06	< 50	< 50	< 300
	03/16/05	< 50	< 50	< 300
	03/12/04	< 50	< 50	< 300
	12/03/03	< 50	< 50	< 300
	08/15/03	< 50	< 50	< 300
	06/03/03	< 50	< 50	< 300
	03/19/03	< 50	< 50	< 300
	12/05/02	< 50	< 50	< 300
	08/28/02	< 50	< 50	< 300
	05/31/02	< 50	< 50	< 300
	03/05/02	< 50	< 50	< 300
	11/27/01	< 50	< 50	< 300
	09/06/01	< 50	140 [2] YH,NJ	< 300 [2]
	05/15/01	< 50	< 50	< 300
	09/07/00	NA	< 50	< 300
	06/19/00	< 50	58 (U12, U21)	< 300 (U12, U21)
	01/13/00	< 50	< 50 (U6)	< 300 (U6)
	01/11/00	< 50	< 50	< 300
	09/02/99	< 50	< 50	715
	06/02/99	< 50	< 50	< 300
	03/10/99	< 50	< 50	< 300 (U12)
	12/07/98	< 50	< 50	< 300
	12/03/98	< 50	< 50	< 300
	09/02/98	< 50	< 50	< 300
	05/26/98	< 50	< 50	< 300
	02/26/98	< 50	< 50	< 300
	12/02/97	< 50	< 50	< 300
	08/28/97	< 50	< 50 (U29)	< 300
	06/11/97	< 50	< 50	< 300
	03/17/97	< 50	< 50	< 300
	11/15/96	< 50	< 50	< 300
	08/20/96	< 50	53 (J25)	< 300
	04/23/96	< 50	< 50	< 300
	01/31/96	< 50	< 50	420 (J25, J32)
	10/30/95	< 50	< 50	< 300
	07/26/95	< 50	< 50	< 300
	05/03/95	< 50	< 50	NA
	02/09/95	< 50	90 (J25)	NA
	10/27/94	< 50	83 (J25)	NA
	08/05/94	< 50	67 (J25)	NA
	05/09/94	< 50	< 50	NA
	02/17/94	< 50	54 (J25)	NA
	11/16/93	< 50	< 50	NA
	08/10/93	< 50	100 (J25)	NA

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	**Sample Date**	**TPH as Gasoline (Carbon Range C_7-C_{12})**	**TPH as Diesel (Carbon Range C_{12}-C_{24})**	**TPH as Fuel Oil (Carbon Range C_{24}-C_{36})**
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
937GW38 (deep)	03/13/06	< 50	< 50	< 300
	03/16/05	< 50	< 50	< 300
	03/12/04	< 50	< 50	< 300
	12/03/03	< 50	< 50	< 300
	08/18/03	< 50	< 50	< 300
	06/03/03	< 50	< 50	< 300
	03/19/03	< 50	< 50	< 300
	12/05/02	< 50	< 50	< 300
	08/28/02	< 50	< 50	< 300
	05/31/02	< 50	< 50	< 300
	03/05/02	< 50	< 50	< 300
	11/27/01	< 50	< 50	< 300
	09/06/01	< 50	< 50 [2]	< 300 [2]
	05/15/01	< 50	< 50	< 300
	06/19/00	< 50	< 50 (U12, U21)	< 300 (U12, U21)
	01/11/00	< 50	< 50 (U12)	< 300
	09/02/99	< 50	< 50	< 300
	06/02/99	< 50	< 50	< 300 (U6)
	03/10/99	< 50	< 50	< 300
	12/03/98	< 50	< 50	< 300
	09/01/98	< 50 (U18)	< 50	< 300
	05/26/98	< 50	< 50	< 300
	02/26/98	< 50	< 50	< 300
	12/02/97	< 50	< 50	< 300
	08/27/97	< 50	< 50	< 300
	06/10/97	< 50	< 50	< 300
	03/13/97	< 50	< 50	< 300
	11/13/96	< 50	< 50	< 300
	08/16/96	< 50	68 (J25)	< 300
	04/09/96	< 50	< 50	< 300
	01/17/96	< 50	< 50	< 300
	10/16/95	< 50	< 50	< 300
	07/17/95	< 50	< 50	< 300
	04/24/95	< 50	< 50	NA
	01/31/95	< 50	< 50	NA
	10/25/94	< 50	< 50	NA
	08/09/94	< 50	< 50 (U9)	NA
	05/10/94	< 50	< 50	NA
	02/15/94	< 50	68 (J25)	NA
	11/15/93	< 50	< 50	NA
	08/09/93	< 50	< 50	NA

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
937GW39 (deep)	03/13/06	< 50	< 50	< 300
	03/17/05	< 50	< 50	< 300
	03/12/04	< 50	< 50	< 300
	12/05/03	< 50	< 50	< 300
	08/18/03	< 50	< 50	< 300
	06/03/03	< 50	< 50	< 300
	03/20/03	< 50	< 50	< 300
	12/05/02	< 50	< 50	< 300
	08/28/02	< 50	< 50	< 300
	05/31/02	< 50	< 50	< 300
	03/05/02	< 50	< 50	< 300
	11/27/01	< 50	< 50	< 300
	09/07/01	< 50	< 50 [2]	< 300 [2]
	05/18/01	< 50	< 50	< 300
DUP0518013BCL	05/18/01	< 50	< 50	< 500
937GW39CL	05/18/01	< 50	< 50	< 500
	06/16/00	< 50	< 50 (U21)	< 300 (U21)
	01/13/00	< 50	< 50	< 300
	09/02/99	< 50	< 50	< 300
	06/01/99	< 50	< 50	< 300
	03/09/99	< 50	< 50	< 300 (U12)
	12/02/98	66 (J25)	< 50	< 300
	08/31/98	< 50	< 50	< 300
	05/21/98	< 50	< 50	< 300
	02/18/98	< 50	< 50	< 300
	12/03/97	< 50	< 50	< 300
	08/28/97	< 50	< 50 (U29)	< 300
	06/16/97	< 50	< 50	< 300
	03/18/97	< 50	< 50	< 300
	11/18/96	< 50	< 50	< 300
	08/21/96	< 50	< 50	< 300
	04/17/96	< 50	< 50	< 300
	01/25/96	< 50	< 50	< 300
	10/24/95	< 50	< 50	< 300
	07/31/95	< 50	< 50	< 300
	05/08/95	< 50	< 50	NA
	02/01/95	< 50	120 (J25)	NA
	10/26/94	< 50	< 50	NA
	08/12/94	< 50	< 50	NA
	05/11/94	< 50	< 50	NA
	02/16/94	< 50	91 (J25)	NA
	11/15/93	< 50	< 50	NA
	08/10/93	< 50	69 (J25)	NA

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
937GW42 (intermediate)	03/14/06	< 50	< 50	< 300
	03/18/05	< 50	< 50	< 300
	03/17/04	< 50	< 50	< 300
	12/09/03	< 50	< 50	< 300
	08/20/03	< 50	< 50	< 300
	06/09/03	< 50	< 50	< 300
	03/20/03	< 50	< 50	< 300
	12/05/02	< 50	< 50	< 300
	08/29/02	< 50	< 50	< 300
	06/04/02	< 50	< 50	< 300
DUP0604021B	06/04/02	< 50	< 50	< 300
937GW42CL	06/04/02	< 50	860 [2] ndp,J-NJ	2,800 [2] NJ
	03/06/02	< 50	< 50	< 300
DUP0306022C	03/06/02	< 50	110 YH	340
	11/28/01	< 50	340 YH	490
DUP1128011C	11/28/01	< 50	720 YH	470
937GW42CL	11/28/01	< 50	150 ndp	530
	09/06/01	< 50	59,000 [2] YH,NJ	67,000 [2] YL,NJ
DUP0906011C	09/06/01	< 50	60,000 [2] YH,NJ	67,000 [2] YL,NJ
	05/16/01	< 50	< 50	< 300
	09/11/00	NA	4,100	3,700
	06/16/00	85	10,000 (J21)	12,000 (J21)
	01/10/00	< 50	< 50 (U12)	< 300
	09/03/98	< 50 (U18)	< 50	< 300
	05/28/98	< 50	< 50	< 300
	02/24/98	< 50	< 50	< 300
	11/25/97	< 50	< 50	< 300
	08/26/97	< 50	< 50	< 300
	06/04/97	< 50	< 50	< 300
	03/10/97	< 50	< 50 (U12, U20, U29)	< 300 (U29)
	11/11/96	< 50	< 50	< 300
	08/14/96	< 50	87 (J25)	< 300
	04/12/96	< 50	< 50	< 300
	01/22/96	< 50	< 50	< 300
	10/20/95	< 50	< 50	< 300
	07/24/95	< 50	< 50	< 300
	05/01/95	< 50	92 (J25)	NA
	02/14/95	< 50	57 (J25)	NA
	10/27/94	< 50	< 50	NA
	08/01/94	< 50	68 (J25)	NA
	05/05/94	< 50	< 50	NA

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
937GW101	03/13/06	< 50	< 50	< 300
	03/18/05	< 50	< 50	< 300
(shallow)	03/16/04	< 50	< 50	< 300
	12/04/03	< 50	< 50	< 300
	08/12/03	< 50	< 50	< 300
	06/04/03	< 50	< 50	< 300
	03/19/03	< 50	< 50	< 300
	12/10/02	< 50	< 50	< 300
	08/28/02	< 50	< 50	< 300
	06/04/02	< 50	< 50	< 300
	03/08/02	< 50	< 50	< 300
	11/27/01	< 50	< 50	< 300
	09/06/01	< 50	63 [2] YH,NJ	< 300 [2]
937GW102	03/13/06	< 50	< 50	< 300
(intermediate)	03/18/05	< 50	< 50	< 300
	03/16/04	< 50	< 50	< 300
	12/04/03	< 50	< 50	< 300
	08/12/03	< 50	< 50	< 300
	06/03/03	< 50	< 50	< 300
	03/19/03	< 50	< 50	< 300
	12/10/02	< 50	< 50	< 300
	08/28/02	< 50	< 50	< 300
	05/30/02	< 50	< 50	< 300
	03/08/02	< 50	< 50	< 300
	11/28/01	< 50	< 50	< 300
	09/06/01	< 50	210 [2] YH,NJ	< 300 [2]
937GW103	03/13/06	< 50	< 50	< 300
(deep)	03/18/05	< 50	< 50	< 300
	03/16/04	< 50	< 50	< 300
	12/04/03	< 50	< 50	< 300
DUP1204032A	12/04/03	< 50	< 50	< 300
937GW103CL	12/04/03	< 50	< 48	< 240
	08/12/03	< 50	< 50	< 300
	06/03/03	< 50	< 50	< 300
	03/19/03	< 50	< 50	< 300
	12/10/02	< 50	< 50	< 300
	08/28/02	< 50	< 50	< 300
	05/30/02	< 50	< 50	< 300
	03/08/02	< 50	< 50	< 300
	11/27/01	< 50	< 50	< 300
	09/06/01	< 50	< 50 [2]	< 300 [2]

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
937GW104 (shallow)	03/13/06	< 50	< 50	< 300
	03/30/05	< 50	< 50	< 300
	03/12/04	< 50	< 50	< 300
	12/08/03	< 50	< 50	< 300
	08/12/03	< 50	< 50	< 300
	06/03/03	< 50	< 50	< 300
	03/11/03	< 50	< 50	< 300
	12/10/02	< 50	< 50	< 300
	08/30/02	< 50	< 50	< 300
	05/31/02	< 50	< 50	< 300
	03/13/02	< 50	< 50	< 300
	12/03/01	< 50	< 50	< 300
	09/07/01	< 50	< 50 [2]	< 300 [2]
937GW105 (intermediate)	03/13/06	< 50	< 50	< 300
	03/30/05	< 50	< 50	< 300
	03/16/04	< 50	< 50	< 300
	12/09/03	< 50	< 50	< 300
	08/15/03	< 50	< 50	< 300
DUP0815031A	08/15/03	< 50	240 HY	< 300
937GW105CL	08/15/03	< 50	< 48	< 240
	06/04/03	< 50	< 50	< 300
	03/19/03	< 50	< 50	< 300
	12/10/02	< 50	< 50	< 300
	09/05/02	< 50	< 50	< 300
	09/05/02	< 50	< 50	< 300
DUP0905022A	09/05/02	< 50	< 50	< 300
	05/31/02	< 50	< 50	< 300
	03/13/02	< 50	< 50	< 300
	12/03/01	<50	< 50	< 300
	09/07/01	< 50	77 [2] YH,NJ	< 300 [2]
937GW106 (shallow)	03/13/06	< 50	< 50	< 300
	03/30/05	< 50	< 50	< 300
	03/16/04	< 50	< 50	< 300
	12/09/03	< 50	< 50	< 300
	08/18/03	< 50	110 Y	< 300
	06/04/03	< 50	68 Y	< 300
	03/18/03	< 50	< 50 UJ	< 300 UJ
	12/10/02	< 50	< 50	< 300
	09/05/02	< 50	< 50	< 300
	05/31/02	< 50	< 50	< 300
	03/13/02	< 50	< 50	< 300
	11/29/01	< 50	< 50	< 300
	08/31/01	< 50	230 [2] YH,NJ	< 300 [2]

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
937GW107	03/14/06	< 50	< 50	< 300
(intermediate)	03/30/05	< 50	< 50	< 300
	03/16/04	< 50	< 50	< 300
	12/09/03	< 50	< 50	< 300
	08/18/03	< 50	< 50	< 300
DUP0818031A	08/18/03	< 50	< 50	< 300
	06/03/03	< 50	< 50	< 300
	03/18/03	< 50	< 50	< 300
	12/10/02	100 YH	62 HY	470
	09/05/02	< 50	< 50	< 300
DUP0905022B	09/05/02	< 50	< 50	< 300
	05/31/02	< 50	< 50	< 300
	03/13/02	< 50	< 50	< 300
	11/29/01	< 50	< 50	< 300
	08/31/01	< 50	64 [2] Y,NJ	< 300 [2]
937GW108	03/13/06	140 HY	55 LY	< 300
(shallow)	03/17/05	380 HY	330 HLY	940
	03/19/04	620 HY	160 LY	580
	12/03/03	460 H,J+	< 50	< 300
DUP1203033B	12/03/03	390 H	50 Y	< 300
937GW108CL	12/03/03	290	1000 A-01	750
	08/15/03	430 Y,J+	400 HLY	840
	06/03/03	740 YH	530 HLYZ	760
	03/19/03	570	< 50	< 300
DUP0319032A	03/19/03	600	450 YLH	390 L
	12/10/02	850 YH	630 HLY	1,800
DUP1210022A	12/10/02	540 HY	60 Y	< 300
937GW108CL	12/10/02	680	< 50	800
	09/05/02	770 YH	< 50	< 300
	06/04/02	1,200 YH	680 YLH	1,900
950GW108				
(intermediate)	03/09/06	< 50	< 50	< 300
DUP0309062A	03/09/06	< 50	< 50	< 300
950GW108CL	03/09/06	< 50 U	120	< 300 U
	03/31/05	< 50	< 50	< 300
DUP0331052A	03/31/05	< 50	< 50	< 300
950GW108CL	03/31/05	< 50 U	< 50 U	< 300 U
	03/16/04	< 50	< 50	< 300
DUP0316042B	03/16/04	< 50	< 50	< 300
	12/04/03	< 50	< 50	< 300
	08/12/03	< 50	< 50	< 300
	06/06/03	< 50	< 50	< 300
	03/18/03	< 50	< 50 UJ	< 300 UJ
DUP0318031B	03/18/03	< 50	< 50	< 300
950GW108CL	03/18/03	< 50	< 50	< 250

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
950GW108	12/11/02	< 50	< 50	< 300
(intermediate)	08/29/02	< 50	< 50	< 300
DUP0829022A	08/29/02	< 50	< 50	< 300
	08/29/02	< 50	< 50	< 300
	06/04/02	< 50	< 50	< 300
DUP0604021A	06/04/02	< 50	< 50	< 300
950GW108CL	06/04/02	< 50	< 50 UJ	< 300
	03/14/02	< 50	< 50	NA
DUP0314022A	03/14/02	< 50	< 50	NA
950GW108CL	03/14/02	< 50	< 50	NA
	11/30/01	< 50	< 50	< 300
DUP1130011A	11/30/01	< 50	< 50	< 300
	09/06/01	< 50	< 50 [2]	< 300 [2]
979GW109	03/14/06	< 50	< 50	< 300
(shallow)	03/18/05	< 50	< 50	< 300
	03/16/04	< 50	< 50	< 300
	12/09/03	< 50	< 50	< 300
	08/20/03	< 50	< 50	< 300
	06/06/03	< 50	< 50	< 300
	03/19/03	< 50	< 50	< 300
	12/10/02	79 YH	< 50	< 300
DUP1210022B	12/10/02	< 50	< 50	< 300
	08/29/02	< 50	< 50	< 300
	06/04/02	< 50	< 50	< 300
	03/08/02	< 50	< 50	< 300
	11/28/01	< 50	< 50	< 300
	09/07/01	< 50	160 [2] YH,NJ	< 300 [2]
979GW110	03/14/06	< 50	< 50	< 300
(intermediate)	03/18/05	< 50	< 50	< 300
	03/16/04	< 50	< 50	< 300
	12/04/03	< 50	< 50	< 300
	08/12/03	< 50	< 50	< 300
	06/05/03	< 50	100 HY	540
	03/19/03	< 50	< 50	< 300
DUP0319032B	03/19/03	< 50	< 50	< 300
	12/11/02	< 50	< 50	< 300
	08/29/02	< 50	< 50	< 300
	05/30/02	< 50	< 50	< 300
	03/14/02	< 50	< 50	NA
	11/28/01	< 50	< 50	< 300
	09/07/01	< 50	< 50 [2]	< 300 [2]

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
979GW111R (intermediate)	03/13/06	< 50	< 50	< 300
	03/30/05	< 50	< 50	< 300
	03/12/04	< 50	< 50	< 300
	12/09/03	< 50	< 50	< 300
	08/12/03	< 50	< 50	< 300
	06/03/03	< 50	< 50	< 300
	03/11/03	< 50	< 50	< 300
	12/10/02	< 50	< 50	< 300
	08/30/02	< 50	< 50	< 300
	06/05/02	< 50	< 50	< 300
979GW112 (intermediate)	03/14/06	< 50	< 50	< 300
	03/30/05	< 50	< 50	< 300
	03/12/04	< 50	< 50	< 300
DUP0312041A	03/12/04	< 50	< 50 HY,U	< 300
979GW112CL	03/12/04	< 50	< 48	< 240
	12/09/03	< 50	< 50	< 300
	08/15/03	< 50	< 50	< 300
DUP0815031B	08/15/03	< 50	< 50	< 300
979GW112CL	08/15/03	< 50	< 48	< 240
	06/03/03	< 50	< 50	< 300
	03/18/03	< 50	< 50	< 300
	12/10/02	< 50	< 50	< 300
DUP1210021A	12/10/02	< 50	< 50	< 300
979GW112CL	12/10/02	< 50	< 50	< 250
	08/30/02	< 50	< 50	< 300
	06/05/02	< 50	< 50	< 300
	03/14/02	< 50	< 50	< 300
	12/03/01	< 50	< 50	< 300
	08/31/01	< 50	< 50 [2]	< 300 [2]
979GW113 (shallow)	03/14/06	< 50	< 50	< 300
	03/18/05	< 50	< 50 Y U	< 300
	03/16/04	< 50	< 50	< 300
	12/04/03	< 50	< 50	< 300
	08/12/03	< 50	54 HY	< 300
	06/05/03	< 50	< 50	< 300
	03/19/03	< 50	710 YLH	760
	12/10/02	< 50	< 50	< 300
	08/28/02	< 50	< 50	< 300
	05/30/02	< 50	< 50	< 300
	03/13/02	< 50	< 50	< 300
DUP0313022A	03/13/02	< 50	< 50	< 300
	11/29/01	< 50	< 50	< 300
	09/07/01	< 50	310 [2] YH,NJ	< 300 [2]

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
979GW114 (intermediate)	03/14/06	< 50	< 50	< 300
	03/18/05	< 50	< 50	< 300
	03/16/04	< 50	< 50	< 300
DUP0316042A	03/16/04	< 50	< 50	< 300
	12/04/03	< 50	< 50	< 300
	08/12/03	< 50	< 50	< 300
	06/04/03	< 50	< 50	< 300
	03/19/03	< 50	< 50	< 300
	12/10/02	< 50	< 50	< 300
	08/28/02	< 50	< 50	< 300
	05/30/02	< 50	< 50	< 300
DUP0530021D	05/30/02	< 50	< 50	< 300
	03/13/02	< 50	< 50	< 300
	11/29/01	< 50	< 50	< 300
	09/07/01	< 50	110 [2] YH,NJ	< 300 [2]
979GW115 (shallow)	03/13/06	< 50	< 50	< 300
	03/30/05	< 50	< 50	< 300
	03/12/04	< 50	< 50 HY,U	< 300
	12/09/03	< 50	< 50	< 300
	08/12/03	< 50	< 50	< 300
	06/03/03	< 50	< 50	< 300
	03/18/03	< 50	< 50 UJ	< 300 UJ
	12/11/02	< 50	< 50 UJ	< 300 UJ
DUP1211021A	12/11/02	< 50	< 50	< 300
	08/30/02	< 50	< 50	< 300
	06/05/02	< 50	< 50	< 300
DUP0605021B	06/05/02	< 50	< 50	< 300
979GW115CL	06/05/02	< 50	< 50 UJ	< 300
	03/13/02	< 50	< 50	< 300
	11/29/01	< 50	< 50	< 300
	08/29/01	< 50	84 [2] Y,NJ	< 300 [2]
979GW116 (intermediate)	03/14/06	< 50	< 50	< 300
DUP0314061A	03/14/06	< 50	< 50	< 300
	03/31/05	< 50	< 50	< 300
DUP0331052B	03/31/05	< 50	< 50	< 300
979GW116CL	03/31/05	< 50 U	< 50 U	< 300 U
	03/16/04	< 50	< 50	< 300
	12/09/03	< 50	< 50	< 300
	08/18/03	< 50	< 50	< 300
	06/04/03	< 50	< 50	< 300
DUP0604031A	06/04/03	< 50	< 50	< 300
	03/19/03	< 50	< 50	< 300
DUP0319031A	03/19/03	< 50	< 50	< 300

Table A-1-3
Results of TPH Analyses
Building 900s Area
Presidio of San Francisco, California

Well Name (screened interval)	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
979GW116	12/10/02	< 50	< 50	< 300
(intermediate)	09/05/02	< 50	< 50	< 300
DUP0905022C	09/05/02	< 50	< 50	< 300
979GW116CL	09/05/02	< 50	< 50	< 300
	06/06/02	< 50	< 50	< 300
	03/14/02	< 50	< 50	< 300
DUP0314021A	03/14/02	< 50	< 50	< 300
979GW116CL	03/14/02	< 50	< 50	< 300
	11/29/01	< 50	< 50	< 300
DUP1129011A	11/29/01	< 50	< 50	< 300
979GW116CL	11/29/01	< 50	< 50	< 500
	08/29/01	< 50	50 [2] Y,NJ	< 300 [2]
979GW117	03/13/06	< 50	< 50	< 300
(deep)	03/17/05	< 50	< 50	< 300
	03/12/04	< 50	< 50 HY,U	< 300
	12/08/03	< 50	< 50	< 300
	08/12/03	< 50	< 50	< 300
	06/03/03	< 50	< 50	< 300
	03/18/03	< 50	< 50	< 300
	12/10/02	< 50	< 50	< 300
	08/30/02	< 50	< 50	< 300
	05/31/02	< 50	< 50	< 300
	03/13/02	< 50	< 50	< 300
	11/29/01	< 50	< 50	< 300
	08/29/01	< 50	< 50 [2]	< 300 [2]

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - TPH analysis was not run using the silica gel cleanup method 3630A, although it was marked on the chain of custody.
H - Heavier hydrocarbons contributed to the quantitation
L - Lighter hydrocarbons contributed to the quantitation
Y - Sample exhibits fuel pattern which does not resemble standard
NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
ndp - Hydrocarbon reported does not match the pattern of the diesel standard.
µg/L - micrograms per liter
NA - Not analyzed
TPH - Total petroleum hydrocarbons
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
Shallow Monitoring Wells						
937GW06	05/22/06	--	5.86	11.05	5.19	MW
	03/06/06	--	4.53	11.05	6.52	MW
	11/28/05	--	6.30	11.05	4.75	MW
	08/29/05	--	5.56	11.05	5.49	MW
	05/23/05	--	5.58	11.05	5.47	MW
	03/14/05	--	5.02	11.05	6.03	MW
	12/13/04	--	4.68	11.05	6.37	MW
	08/09/04	--	6.08	11.05	4.97	MW
	05/24/04	--	6.18	11.05	4.87	MW
	03/08/04	--	5.69	11.05	5.36	MW
	12/01/03	--	5.85	11.05	5.20	MW
	08/11/03	Low	6.47	11.05	4.58	MW
	06/02/03	Low	6.50	11.05	4.55	MW
	03/10/03	Low	6.29	11.05	4.76	MW
	12/02/02	Low	6.13	11.05	4.92	MW
	08/26/02	Low	6.67	11.05	4.38	MW
	05/28/02	Low	6.67	11.05	4.38	MW
	03/04/02	Low	5.93	11.05	5.12	MW
	11/26/01	Low	6.27	11.05	4.78	MW
	11/26/01	High	5.83	11.05	5.22	MW
	08/27/01	Low	6.67	11.05	4.38	MW
	08/27/01	High	6.70	11.05	4.35	MW
	05/08/01	Low	6.75	11.05	4.30	MW
	05/08/01	High	6.55	11.05	4.50	MW
937GW07 [2]	05/22/06	--	8.87	13.94	5.07	MW
	03/06/06	--	7.62	13.94	6.32	MW
	11/28/05	--	9.28	13.94	4.66	MW
	08/29/05	--	8.84	13.94	5.10	MW
	05/23/05	--	8.76	13.94	5.18	MW
	03/14/05	--	8.10	13.94	5.84	MW
	12/13/04	--	7.92	13.94	6.02	MW
	08/09/04	--	9.27	13.94	4.67	MW
	05/24/04	--	9.11	13.94	4.83	MW
	03/08/04	--	8.70	13.94	5.24	MW
	12/01/03	--	9.02	13.94	4.92	MW
	08/11/03	Low	9.31	13.94	4.63	MW
	06/02/03	Low	9.37	13.94	4.57	MW
	03/10/03	Low	9.41	13.94	4.53	MW
	12/02/02	Low	8.95	13.94	4.99	MW
	08/26/02	Low	9.71	13.94	4.23	MW
	05/28/02	Low	9.53	13.94	4.41	MW
	03/04/02	Low	9.12	13.94	4.82	MW
	11/26/01	Low	9.13	13.94	4.81	MW
	11/26/01	High	9.04	13.94	4.90	MW
	08/27/01	Low	9.84	13.94	4.10	MW
	08/27/01	High	9.85	13.94	4.09	MW
	05/08/01	Low	9.76	13.94	4.18	MW
	05/08/01	High	9.71	13.94	4.23	MW

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
937GW12	05/22/06	--	6.63	10.34	3.71	MW
	03/06/06	--	2.30	10.34	8.04	MW
	11/28/05	--	3.61	10.34	6.73	MW
	08/29/05	--	2.23	10.34	8.11	MW
	05/23/05	--	2.63	10.34	7.71	MW
	03/14/05	--	1.93	10.34	8.41	MW
	12/13/04	--	2.69	10.34	7.65	MW
	08/09/04	--	3.05	10.34	7.29	MW
	05/24/04	--	2.90	10.34	7.44	MW
	03/08/04	--	2.75	10.34	7.59	MW
	12/01/03	--	4.67	10.34	5.67	MW
	08/11/03	Low	5.25	10.34	5.09	MW
	06/02/03	Low	5.39	10.34	4.95	MW
	03/10/03	Low	5.19	10.34	5.15	MW
	12/02/02	Low	5.02	10.34	5.32	MW
	08/26/02	Low	5.59	10.34	4.75	MW
	05/28/02	Low	5.50	10.34	4.84	MW
	03/04/02	Low	4.95	10.34	5.39	MW
	11/26/01	Low	5.29	10.34	5.05	MW
	11/26/01	High	5.16	10.34	5.18	MW
	08/27/01	Low	5.85	10.34	4.49	MW
	08/27/01	High	5.89	10.34	4.45	MW
	05/08/01	Low	5.67	10.34	4.67	MW
	05/08/01	High	5.82	10.34	4.52	MW
937GW15	05/22/06	--	7.29	12.90	5.61	MW
	03/06/06	--	6.06	12.90	6.84	MW
	11/28/05	--	7.77	12.90	5.13	MW
	08/29/05	--	7.02	12.90	5.88	MW
	05/23/05	--	7.10	12.90	5.80	MW
	03/14/05	--	6.27	12.90	6.63	MW
	12/13/04	--	6.33	12.90	6.57	MW
	08/09/04	--	7.49	12.90	5.41	MW
	05/24/04	--	7.47	12.90	5.43	MW
	03/08/04	--	6.92	12.90	5.98	MW
	12/01/03	--	7.83	12.90	5.07	MW
	08/11/03	Low	8.16	12.90	4.74	MW
	06/02/03	Low	8.20	12.90	4.70	MW
	03/10/03	Low	8.00	12.90	4.90	MW
	12/02/02	Low	7.85	12.90	5.05	MW
	08/26/02	Low	8.39	12.90	4.51	MW
	05/28/02	Low	8.35	12.90	4.55	MW
	03/04/02	Low	7.78	12.90	5.12	MW
	11/26/01	Low	7.98	12.90	4.92	MW
	11/26/01	High	7.82	12.90	5.08	MW
	08/27/01	Low	8.58	12.90	4.32	MW
	08/27/01	High	8.58	12.90	4.32	MW
	05/08/01	Low	8.68	12.90	4.22	MW
	05/08/01	High	8.61	12.90	4.29	MW

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
937GW35	05/22/06	--	6.90	11.64	4.74	MW
	03/06/06	--	5.04	11.64	6.60	MW
	11/28/05	--	6.92	11.64	4.72	MW
	08/29/05	--	7.00	11.64	4.64	MW
	05/23/05	--	6.27	11.64	5.37	MW
	03/14/05	--	6.45	11.64	5.19	MW
	12/13/04	--	6.10	11.64	5.54	MW
	08/09/04	--	7.21	11.64	4.43	MW
	05/24/04	--	6.86	11.64	4.78	MW
	03/08/04	--	7.11	11.64	4.53	MW
	12/01/03	--	6.11	11.64	5.53	MW
	08/11/03	Low	6.96	11.64	4.68	MW
	06/02/03	Low	6.83	11.64	4.81	MW
	03/10/03	Low	6.56	11.64	5.08	MW
	12/02/02	Low	6.43	11.64	5.21	MW
	08/26/02	Low	7.41	11.64	4.23	MW
	05/28/02	Low	6.78	11.64	4.86	MW
	03/04/02	Low	6.13	11.64	5.51	MW
	11/26/01	Low	6.63	11.64	5.01	MW
	11/26/01	High	6.46	11.64	5.18	MW
	08/27/01	Low	7.43	11.64	4.21	MW
	08/27/01	High	7.43	11.64	4.21	MW
	05/08/01	Low	6.98	11.64	4.66	MW
	05/08/01	High	7.18	11.64	4.46	MW
937GW37	05/22/06	--	7.16	12.74	5.58	MW
	03/06/06	--	5.93	12.74	6.81	MW
	11/28/05	--	7.75	12.74	4.99	MW
	08/29/05	--	6.87	12.74	5.87	MW
	05/23/05	--	6.95	12.74	5.79	MW
	03/14/05	--	6.20	12.74	6.54	MW
	12/13/04	--	6.21	12.74	6.53	MW
	08/09/04	--	7.35	12.74	5.39	MW
	05/24/04	--	7.27	12.74	5.47	MW
	03/08/04	--	6.86	12.74	5.88	MW
	12/01/03	--	7.49	12.74	5.25	MW
	08/11/03	Low	8.07	12.74	4.67	MW
	06/02/03	Low	8.10	12.74	4.64	MW
	03/10/03	Low	7.92	12.74	4.82	MW
	12/02/02	Low	7.75	12.74	4.99	MW
	08/26/02	Low	8.30	12.74	4.44	MW
	05/28/02	Low	8.25	12.74	4.49	MW
	03/04/02	Low	7.64	12.74	5.10	MW
	11/26/01	Low	7.77	12.74	4.97	MW
	11/26/01	High	7.66	12.74	5.08	MW
	08/27/01	Low	8.34	12.74	4.40	MW
	08/27/01	High	8.43	12.74	4.31	MW
	05/08/01	Low	8.54	12.74	4.20	MW
	05/08/01	High	8.37	12.74	4.37	MW

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
937GW101	05/22/06	--	6.58	11.81	5.23	MW
	03/06/06	--	5.33	11.81	6.48	MW
	11/28/05	--	7.02	11.81	4.79	MW
	08/29/05	--	6.28	11.81	5.53	MW
	05/23/05	--	6.34	11.81	5.47	MW
	03/14/05	--	5.76	11.81	6.05	MW
	12/13/04	--	5.35	11.81	6.46	MW
	08/09/04	--	6.77	11.81	5.04	MW
	05/24/04	--	6.83	11.81	4.98	MW
	03/08/04	--	6.35	11.81	5.46	MW
	12/01/03	--	6.65	11.81	5.16	MW
	08/11/03	Low	7.19	11.81	4.62	MW
	06/02/03	Low	7.21	11.81	4.60	MW
	03/10/03	Low	7.09	11.81	4.72	MW
	12/02/02	Low	6.88	11.81	4.93	MW
	08/26/02	Low	7.46	11.81	4.35	MW
	05/28/02	Low	7.43	11.81	4.38	MW
	03/04/02	Low	6.81	11.81	5.00	MW
	11/26/01	Low	7.04	11.81	4.77	MW
	11/26/01	High	6.65	11.81	5.16	MW
	08/27/01	Low	7.45	11.81	4.36	MW
	08/27/01	High	7.46	11.81	4.35	MW
937GW104	05/22/06	--	6.57	11.52	4.95	MW
	03/06/06	--	4.55	11.52	6.97	MW
	11/28/05	--	6.65	11.52	4.87	MW
	08/29/05	--	6.44	11.52	5.08	MW
	05/23/05	--	6.18	11.52	5.34	MW
	03/14/05	--	6.08	11.52	5.44	MW
	12/13/04	--	4.85	11.52	6.67	MW
	08/09/04	--	6.96	11.52	4.56	MW
	05/24/04	--	6.83	11.52	4.69	MW
	03/08/04	--	6.72	11.52	4.80	MW
	12/01/03	--	6.02	11.52	5.50	MW
	08/11/03	Low	6.75	11.52	4.77	MW
	06/02/03	Low	6.45	11.52	5.07	MW
	03/10/03	Low	6.98	11.52	4.54	MW
	12/02/02	Low	6.03	11.52	5.49	MW
	08/26/02	Low	7.26	11.52	4.26	MW
	05/28/02	Low	6.86	11.52	4.66	MW
	03/04/02	Low	6.47	11.52	5.05	MW
	11/26/01	Low	6.63	11.52	4.89	MW
	11/26/01	High	6.07	11.52	5.45	MW
	08/27/01	Low	7.00	11.52	4.52	MW
	08/27/01	High	7.05	11.52	4.47	MW
937GW106	05/22/06	--	10.11	15.20	5.09	MW
	03/06/06	--	8.53	15.20	6.67	MW
	11/28/05	--	10.26	15.20	4.94	MW
	08/29/05	--	10.23	15.20	4.97	MW
	05/23/05	--	9.60	15.20	5.60	MW

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
937GW106	03/14/05	--	9.36	15.20	5.84	MW
	12/13/04	--	9.52	15.20	5.68	MW
	08/09/04	--	10.23	15.20	4.97	MW
	05/24/04	--	10.15	15.20	5.05	MW
	03/08/04	--	9.82	15.20	5.38	MW
	12/01/03	--	10.15	15.20	5.05	MW
	08/11/03	Low	10.22	15.20	4.98	MW
	06/02/03	Low	10.27	15.20	4.93	MW
	03/10/03	Low	9.13	15.20	6.07	MW
	12/02/02	Low	10.09	15.20	5.11	MW
	08/26/02	Low	10.37	15.20	4.83	MW
	05/28/02	Low	10.19	15.20	5.01	MW
	03/04/02	Low	8.83	15.20	6.37	MW
	11/26/01	Low	9.82	15.20	5.38	MW
	11/26/01	High	9.80	15.20	5.40	MW
	08/27/01	Low	10.37	15.20	4.83	MW
	08/27/01	High	10.39	15.20	4.81	MW
937GW108	05/22/06	--	5.69	12.11	6.42	MW
	03/06/06	--	4.07	12.11	8.04	MW
	11/28/05	--	6.81	12.11	5.30	MW
	08/29/05	--	5.20	12.11	6.91	MW
	05/23/05	--	5.34	12.11	6.77	MW
	03/14/05	--	4.36	12.11	7.75	MW
	12/13/04	--	5.41	12.11	6.70	MW
	08/09/04	--	6.67	12.11	5.44	MW
	05/24/04	--	6.72	12.11	5.39	MW
	03/08/04	--	5.64	12.11	6.47	MW
	12/01/03	--	6.86	12.11	5.25	MW
	08/11/03	Low	7.45	12.11	4.66	MW
	06/02/03	Low	7.44	12.11	4.67	MW
	03/10/03	Low	7.17	12.11	4.94	MW
	12/02/02	Low	7.25	12.11	4.86	MW
	08/26/02	Low	5.94	12.11	6.17	MW
	05/28/02	Low	7.68 [3]	12.11	4.43	MW
979GW109	05/22/06	--	6.58	10.62	4.04	MW
	03/06/06	--	5.39	10.62	5.23	MW
	11/28/05	--	6.46	10.62	4.16	MW
	08/29/05	--	6.17	10.62	4.45	MW
	05/23/05	--	6.18	10.62	4.44	MW
	03/14/05	--	6.05	10.62	4.57	MW
	12/13/04	--	5.55	10.62	5.07	MW
	08/09/04	--	6.54	10.62	4.08	MW
	05/24/04	--	6.59	10.62	4.03	MW
	03/08/04	--	6.51	10.62	4.11	MW
	12/01/03	--	5.65	10.62	4.97	MW
	08/11/03	Low	6.58	10.62	4.04	MW
	06/02/03	Low	6.69	10.62	3.93	MW
	03/10/03	Low	6.18	10.62	4.44	MW
	12/02/02	Low	6.07	10.62	4.55	MW
	08/26/02	Low	6.91	10.62	3.71	MW
	05/28/02	Low	6.75	10.62	3.87	MW

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
979GW109	03/04/02	Low	5.96	10.62	4.66	MW
	11/26/01	Low	6.63	10.62	3.99	MW
	11/26/01	High	6.02	10.62	4.60	MW
	08/27/01	Low	6.57	10.62	4.05	MW
	08/27/01	High	6.57	10.62	4.05	MW
979GW112	05/22/06	--	15.47	19.72	4.25	MW
	03/06/06	--	14.73	19.72	4.99	MW
	11/28/05	--	15.80	19.72	3.92	MW
	08/29/05	--	15.28	19.72	4.44	MW
	05/23/05	--	14.87	19.72	4.85	MW
	03/14/05	--	15.15	19.72	4.57	MW
	12/13/04	--	14.65	19.72	5.07	MW
	08/09/04	--	15.61	19.72	4.11	MW
	05/24/04	--	15.75	19.72	3.97	MW
	03/08/04	--	15.52	19.72	4.20	MW
	12/01/03	--	15.06	19.72	4.66	MW
	08/11/03	Low	15.85	19.72	3.87	MW
	06/02/03	Low	15.98	19.72	3.74	MW
	03/10/03	Low	14.95	19.72	4.77	MW
	12/02/02	Low	15.60	19.72	4.12	MW
	08/26/02	Low	16.03	19.72	3.69	MW
	05/28/02	Low	15.97	19.72	3.75	MW
	03/04/02	Low	14.65	19.72	5.07	MW
	11/26/01	Low	15.77	19.72	3.95	MW
	11/26/01	High	15.25	19.72	4.47	MW
	08/27/01	Low	15.73	19.72	3.99	MW
	08/27/01	High	15.74	19.72	3.98	MW
979GW113	05/22/06	--	6.61	10.41	3.80	MW
	03/06/06	--	6.10	10.41	4.31	MW
	11/28/05	--	6.68	10.41	3.73	MW
	08/29/05	--	6.01	10.41	4.40	MW
	05/23/05	--	6.76	10.41	3.65	MW
	03/14/05	--	6.41	10.41	4.00	MW
	12/13/04	--	5.97	10.41	4.44	MW
	08/09/04	--	6.63	10.41	3.78	MW
	05/24/04	--	6.80	10.41	3.61	MW
	03/08/04	--	6.87	10.41	3.54	MW
	12/01/03	--	5.68	10.41	4.73	MW
	08/11/03	Low	6.98	10.41	3.43	MW
	06/02/03	Low	7.12	10.41	3.29	MW
	03/10/03	Low	6.68	10.41	3.73	MW
	12/02/02	Low	6.29	10.41	4.12	MW
	08/26/02	Low	7.25	10.41	3.16	MW
	05/28/02	Low	7.15	10.41	3.26	MW
	03/04/02	Low	6.28	10.41	4.13	MW
	11/26/01	Low	7.03	10.41	3.38	MW
	11/26/01	High	5.80	10.41	4.61	MW
	08/27/01	Low	6.41	10.41	4.00	MW
	08/27/01	High	6.41	10.41	4.00	MW

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
979GW115	05/22/06	--	7.99	12.26	4.27	MW
	03/06/06	--	7.45	12.26	4.81	MW
	11/28/05	--	8.25	12.26	4.01	MW
	08/29/05	--	7.96	12.26	4.30	MW
	05/23/05	--	7.97	12.26	4.29	MW
	03/14/05	--	7.76	12.26	4.50	MW
	12/13/04	--	7.54	12.26	4.72	MW
	08/09/04	--	8.30	12.26	3.96	MW
	05/24/04	--	8.26	12.26	4.00	MW
	03/08/04	--	8.24	12.26	4.02	MW
	12/01/03	--	7.66	12.26	4.60	MW
	08/11/03	Low	8.28	12.26	3.98	MW
	06/02/03	Low	8.49	12.26	3.77	MW
	03/10/03	Low	7.97	12.26	4.29	MW
	12/02/02	Low	7.93	12.26	4.33	MW
	08/26/02	Low	8.61	12.26	3.65	MW
	05/28/02	Low	8.45	12.26	3.81	MW
	03/04/02	Low	7.65	12.26	4.61	MW
	11/26/01	Low	8.27	12.26	3.99	MW
	11/26/01	High	8.03	12.26	4.23	MW
	08/27/01	Low	8.42	12.26	3.84	MW
	08/27/01	High	8.45	12.26	3.81	MW
CGGW01	08/09/04	Low	NM	10.53	NM	MW
	05/24/04	Low	NM	10.53	NM	MW
	03/08/04	Low	3.55	10.53	6.98	MW
	08/11/03	Low	5.43	10.53	5.10	MW
	06/02/03	Low	5.53	10.53	5.00	MW
	03/10/03	Low	5.33	10.53	5.20	MW
	12/02/02	Low	5.12	10.53	5.41	MW
	08/26/02	Low	5.68	10.53	4.85	MW
	05/28/02	Low	5.63	10.53	4.90	MW
	03/04/02	Low	5.10	10.53	5.43	MW
	11/26/01	Low	5.09	10.53	5.44	MW
	11/26/01	High	5.06	10.53	5.47	MW
	08/27/01	Low	5.90	10.53	4.63	MW
	08/27/01	High	5.89	10.53	4.64	MW
	05/08/01	Low	5.93	10.53	4.60	MW
	05/08/01	High	5.92	10.53	4.61	MW
CGGW02	08/09/04	Low	NM	9.87	NM	MW
	05/24/04	Low	NM	9.87	NM	MW
	03/08/04	Low	NM	9.87	NM	MW
	08/11/03	Low	5.02	9.87	4.85	MW
	06/02/03	Low	5.16	9.87	4.71	MW
	03/10/03	Low	5.20	9.87	4.67	MW

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
CGGW02	12/02/02	Low	4.70	9.87	5.17	MW
	08/26/02	Low	5.21	9.87	4.66	MW
	05/28/02	Low	5.27	9.87	4.60	MW
	03/04/02	Low	4.94	9.87	4.93	MW
	11/26/01	Low	4.88	9.87	4.99	MW
	11/26/01	High	4.87	9.87	5.00	MW
	08/27/01	Low	5.60	9.87	4.27	MW
	08/27/01	High	5.59	9.87	4.28	MW
	05/08/01	Low	5.48	9.87	4.39	MW
	05/08/01	High	5.55	9.87	4.32	MW
CGGW03	08/09/04	--	Not located	11.58	--	MW
	05/24/04	--	Not located	11.58	--	MW
	03/08/04	--	Not located	11.58	--	MW
	08/11/03	--	Not located	11.58	--	MW
	06/02/03	--	Not located	11.58	--	MW
	03/10/03	--	Not located	11.58	--	MW
	12/02/02	--	Not located	11.58	--	MW
	08/26/02	--	Not located	11.58	--	MW
	05/28/02	--	Not located	11.58	--	MW
	03/04/02	--	Not located	11.58	--	MW
	11/26/01	--	Not located	11.58	--	MW
	08/27/01	--	Not located	11.58	--	MW
	05/08/01	--	Not located	11.58	--	MW
Intermediate Monitoring Wells						
937GW42	05/22/06	--	5.67	10.62	4.95	MW
	03/06/06	--	4.90	10.62	5.72	MW
	11/28/05	--	6.18	10.62	4.44	MW
	08/29/05	--	5.06	10.62	5.56	MW
	05/23/05	--	5.10	10.62	5.52	MW
	03/14/05	--	4.78	10.62	5.84	MW
	12/13/04	--	4.17	10.62	6.45	MW
	08/09/04	--	5.67	10.62	4.95	MW
	05/24/04	--	5.88	10.62	4.74	MW
	03/08/04	--	5.40	10.62	5.22	MW
	12/01/03	--	5.75	10.62	4.87	MW
	08/11/03	Low	6.35	10.62	4.27	MW
	06/02/03	Low	6.11	10.62	4.51	MW
	03/10/03	Low	5.75	10.62	4.87	MW
	12/02/02	Low	6.06	10.62	4.56	MW
	08/26/02	Low	6.27	10.62	4.35	MW
	05/28/02	Low	6.50	10.62	4.12	MW
	03/04/02	Low	5.69	10.62	4.93	MW
	11/26/01	Low	6.14	10.62	4.48	MW
	11/26/01	High	5.12	10.62	5.50	MW

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
937GW42	08/27/01	Low	6.27	10.62	4.35	MW
	08/27/01	High	6.36	10.62	4.26	MW
	05/08/01	Low	9.97	10.62	0.65	MW
	05/08/01	High	9.05	10.62	1.57	MW
937GW102	05/22/06	--	6.60	11.69	5.09	MW
	03/06/06	--	5.43	11.69	6.26	MW
	11/28/05	--	7.09	11.69	4.60	MW
	08/29/05	--	6.12	11.69	5.57	MW
	05/23/05	--	6.30	11.69	5.39	MW
	03/14/05	--	5.82	11.69	5.87	MW
	12/13/04	--	5.20	11.69	6.49	MW
	08/09/04	--	6.57	11.69	5.12	MW
	05/24/04	--	6.81	11.69	4.88	MW
	03/08/04	--	6.26	11.69	5.43	MW
	12/01/03	--	6.59	11.69	5.10	MW
	08/11/03	Low	7.30	11.69	4.39	MW
	06/02/03	Low	7.31	11.69	4.38	MW
	03/10/03	Low	7.03	11.69	4.66	MW
	12/02/02	Low	7.10	11.69	4.59	MW
	08/26/02	Low	7.47	11.69	4.22	MW
	05/28/02	Low	7.51	11.69	4.18	MW
	03/04/02	Low	6.80	11.69	4.89	MW
	11/26/01	Low	7.22	11.69	4.47	MW
	11/26/01	High	6.59	11.69	5.10	MW
	08/27/01	Low	7.38	11.69	4.31	MW
	08/27/01	High	7.41	11.69	4.28	MW
937GW105	05/22/06	--	7.18	11.50	4.32	MW
	03/06/06	--	6.21	11.50	5.29	MW
	11/28/05	--	7.61	11.50	3.89	MW
	08/29/05	--	6.45	11.50	5.05	MW
	05/23/05	--	6.57	11.50	4.93	MW
	03/14/05	--	6.47	11.50	5.03	MW
	12/13/04	--	4.95	11.50	6.55	MW
	08/09/04	--	6.71	11.50	4.79	MW
	05/24/04	--	7.35	11.50	4.15	MW
	03/08/04	--	6.55	11.50	4.95	MW
	12/01/03	--	6.57	11.50	4.93	MW
	08/11/03	Low	7.52	11.50	3.98	MW
	06/02/03	Low	7.69	11.50	3.81	MW
	03/10/03	Low	7.30	11.50	4.20	MW
	12/02/02	Low	7.71	11.50	3.79	MW
	08/26/02	Low	7.62	11.50	3.88	MW
	05/28/02	Low	7.78	11.50	3.72	MW
	03/04/02	Low	6.84	11.50	4.66	MW
	11/26/01	Low	7.56	11.50	3.94	MW
	11/26/01	High	6.47	11.50	5.03	MW
	08/27/01	Low	7.19	11.50	4.31	MW
	08/27/01	High	7.27	11.50	4.23	MW

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
937GW107	05/22/06	--	10.87	15.11	4.24	MW
	03/06/06	--	10.08	15.11	5.03	MW
	11/28/05	--	11.28	15.11	3.83	MW
	08/29/05	--	10.23	15.11	4.88	MW
	05/23/05	--	10.46	15.11	4.65	MW
	03/14/05	--	10.35	15.11	4.76	MW
	12/13/04	--	9.04	15.11	6.07	MW
	08/09/04	--	10.60	15.11	4.51	MW
	05/24/04	--	11.08	15.11	4.03	MW
	03/08/04	--	10.51	15.11	4.60	MW
	12/01/03	--	10.23	15.11	4.88	MW
	08/11/03	Low	11.26	15.11	3.85	MW
	06/02/03	Low	11.42	15.11	3.69	MW
	03/10/03	Low	10.66	15.11	4.45	MW
	12/02/02	Low	11.27	15.11	3.84	MW
	08/26/02	Low	11.37	15.11	3.74	MW
	05/28/02	Low	11.45	15.11	3.66	MW
	03/04/02	Low	10.39	15.11	4.72	MW
	11/26/01	Low	11.24	15.11	3.87	MW
	11/26/01	High	10.17	15.11	4.94	MW
	08/27/01	Low	10.83	15.11	4.28	MW
	08/27/01	High	10.87	15.11	4.24	MW
950GW108	05/22/06	--	7.54	11.60	4.06	MW
	03/06/06	--	6.78	11.60	4.82	MW
	11/28/05	--	8.07	11.60	3.53	MW
	08/29/05	--	6.90	11.60	4.70	MW
	05/23/05	--	6.98	11.60	4.62	MW
	03/14/05	--	7.05	11.60	4.55	MW
	12/13/04	--	5.50	11.60	6.10	MW
	08/09/04	--	7.18	11.60	4.42	MW
	05/24/04	--	7.75	11.60	3.85	MW
	03/08/04	--	7.13	11.60	4.47	MW
	12/01/03	--	6.90	11.60	4.70	MW
	08/11/03	Low	7.88	11.60	3.72	MW
	06/02/03	Low	8.03	11.60	3.57	MW
	03/10/03	Low	7.33	11.60	4.27	MW
	12/02/02	Low	8.00	11.60	3.60	MW
	08/26/02	Low	7.82	11.60	3.78	MW
	05/28/02	Low	8.10	11.60	3.50	MW
	03/04/02	Low	7.04	11.60	4.56	MW
	11/26/01	Low	7.88	11.60	3.72	MW
	11/26/01	High	6.71	11.60	4.89	MW
	08/27/01	Low	7.32	11.60	4.28	MW
	08/27/01	High	7.40	11.60	4.20	MW
979GW110	05/22/06	--	9.91	10.62	0.71	MW
	03/06/06	--	6.50	10.62	4.12	MW
	11/28/05	--	7.41	10.62	3.21	MW
	08/29/05	--	6.12	10.62	4.50	MW
	05/23/05	--	6.48	10.62	4.14	MW
	03/14/05	--	6.57	10.62	4.05	MW

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
979GW110	12/13/04	--	4.74	10.62	5.88	MW
	08/09/04	--	6.40	10.62	4.22	MW
	05/24/04	--	7.14	10.62	3.48	MW
	03/08/04	--	6.54	10.62	4.08	MW
	12/01/03	--	5.76	10.62	4.86	MW
	08/11/03	Low	7.15	10.62	3.47	MW
	06/02/03	Low	7.29	10.62	3.33	MW
	03/10/03	Low	6.67	10.62	3.95	MW
	12/02/02	Low	7.33	10.62	3.29	MW
	08/26/02	Low	7.08	10.62	3.54	MW
	05/28/02	Low	7.43	10.62	3.19	MW
	03/04/02	Low	6.41	10.62	4.21	MW
	11/26/01	Low	7.17	10.62	3.45	MW
	11/26/01	High	5.75	10.62	4.87	MW
	08/27/01	Low	6.41	10.62	4.21	MW
	08/27/01	High	6.45	10.62	4.17	MW
979GW111R	05/22/06	--	15.40	19.69	4.29	MW
	03/06/06	--	14.68	19.69	5.01	MW
	11/28/05	--	15.78	19.69	3.91	MW
	08/29/05	--	15.21	19.69	4.48	MW
	05/23/05	--	14.84	19.69	4.85	MW
	03/14/05	--	15.13	19.69	4.56	MW
	12/13/04	--	14.55	19.69	5.14	MW
	08/09/04	--	15.54	19.69	4.15	MW
	05/24/04	--	15.72	19.69	3.97	MW
	03/08/04	--	15.46	19.69	4.23	MW
	12/01/03	--	15.02	19.69	4.67	MW
	08/11/03	Low	15.79	19.69	3.90	MW
	06/02/03	Low	15.67	19.69	4.02	MW
	03/10/03	Low	14.90	19.69	4.79	MW
	12/02/02	Low	15.55	19.69	4.14	MW
	08/26/02	Low	15.98	19.69	3.71	MW
	05/28/02	Low	15.92	19.69	3.77	MW
979GW114	05/22/06	--	6.47	10.53	4.06	MW
	03/06/06	--	6.34	10.53	4.19	MW
	11/28/05	--	7.05	10.53	3.48	MW
	08/29/05	--	6.23	10.53	4.30	MW
	05/23/05	--	6.57	10.53	3.96	MW
	03/14/05	--	6.40	10.53	4.13	MW
	12/13/04	--	5.04	10.53	5.49	MW
	08/09/04	--	6.36	10.53	4.17	MW
	05/24/04	--	6.93	10.53	3.60	MW
	03/08/04	--	6.65	10.53	3.88	MW
	12/01/03	--	5.75	10.53	4.78	MW
	08/11/03	Low	7.01	10.53	3.52	MW
	06/02/03	Low	7.08	10.53	3.45	MW
	03/10/03	Low	6.64	10.53	3.89	MW
	12/02/02	Low	6.90	10.53	3.63	MW
	08/26/02	Low	7.00	10.53	3.53	MW
	05/28/02	Low	7.26	10.53	3.27	MW

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
979GW114	03/04/02	Low	6.33	10.53	4.20	MW
	11/26/01	Low	6.90	10.53	3.63	MW
	11/26/01	High	6.14	10.53	4.39	MW
	08/27/01	Low	6.71	10.53	3.82	MW
	08/27/01	High	6.66	10.53	3.87	MW
979GW116	05/22/06	--	7.94	12.19	4.25	MW
	03/06/06	--	7.40	12.19	4.79	MW
	11/28/05	--	8.23	12.19	3.96	MW
	08/29/05	--	7.89	12.19	4.30	MW
	05/23/05	--	7.90	12.19	4.29	MW
	03/14/05	--	7.74	12.19	4.45	MW
	12/13/04	--	7.45	12.19	4.74	MW
	08/09/04	--	8.22	12.19	3.97	MW
	05/24/04	--	8.24	12.19	3.95	MW
	03/08/04	--	8.19	12.19	4.00	MW
	12/01/03	--	7.60	12.19	4.59	MW
	08/11/03	Low	8.25	12.19	3.94	MW
	06/02/03	Low	8.45	12.19	3.74	MW
	03/10/03	Low	7.90	12.19	4.29	MW
	12/02/02	Low	7.90	12.19	4.29	MW
	08/26/02	Low	8.56	12.19	3.63	MW
	05/28/02	Low	8.41	12.19	3.78	MW
	03/04/02	Low	7.59	12.19	4.60	MW
	11/26/01	Low	8.24	12.19	3.95	MW
	11/26/01	High	7.93	12.19	4.26	MW
	08/27/01	Low	8.34	12.19	3.85	MW
	08/27/01	High	8.37	12.19	3.82	MW
Deep Monitoring Wells						
937GW32R	05/22/06	--	5.62	10.60	4.98	MW
	03/06/06	--	4.45	10.60	6.15	MW
	11/28/05	--	6.05	10.60	4.55	MW
	08/29/05	--	5.14	10.60	5.46	MW
	05/23/05	--	5.31	10.60	5.29	MW
	03/14/05	--	4.54	10.60	6.06	MW
	12/13/04	--	4.01	10.60	6.59	MW
	08/09/04	--	5.58	10.60	5.02	MW
	05/24/04	--	5.83	10.60	4.77	MW
	03/08/04	--	5.12	10.60	5.48	MW
	12/01/03	--	5.57	10.60	5.03	MW
	08/11/03	Low	6.26	10.60	4.34	MW
	06/02/03	Low	6.31	10.60	4.29	MW
	03/10/03	Low	5.86	10.60	4.74	MW
	12/02/02	Low	6.10	10.60	4.50	MW
	08/26/02	Low	6.37	10.60	4.23	MW
	05/28/02	Low	6.47	10.60	4.13	MW
	03/04/02	Low	5.69	10.60	4.91	MW

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
937GW32R	11/26/01	Low	6.19	10.60	4.41	MW
	11/26/01	High	5.50	10.60	5.10	MW
	08/27/01	Low	6.18	10.60	4.42	MW
	08/27/01	High	6.24	10.60	4.36	MW
	05/08/01	Low	6.08	10.60	4.52	MW
	05/08/01	High	6.72	10.60	3.88	MW
937GW38	05/22/06	--	4.68	10.23	5.55	MW
	03/06/06	--	4.00	10.23	6.23	MW
	11/28/05	--	4.13	10.23	6.10	MW
	08/29/05	--	4.15	10.23	6.08	MW
	05/23/05	--	4.44	10.23	5.79	MW
	03/14/05	--	3.65	10.23	6.58	MW
	12/13/04	--	3.75	10.23	6.48	MW
	08/09/04	--	4.36	10.23	5.87	MW
	05/24/04	--	4.53	10.23	5.70	MW
	03/08/04	--	3.86	10.23	6.37	MW
	12/01/03	--	4.73	10.23	5.50	MW
	08/11/03	Low	5.35	10.23	4.88	MW
	06/02/03	Low	5.20	10.23	5.03	MW
	03/10/03	Low	4.85	10.23	5.38	MW
	12/02/02	Low	5.00	10.23	5.23	MW
	08/26/02	Low	5.64	10.23	4.59	MW
	05/28/02	Low	5.10	10.23	5.13	MW
	03/04/02	Low	4.60	10.23	5.63	MW
	11/26/01	Low	4.91	10.23	5.32	MW
	11/26/01	High	4.30	10.23	5.93	MW
	08/27/01	Low	4.69	10.23	5.54	MW
	08/27/01	High	4.70	10.23	5.53	MW
	05/08/01	Low	5.12	10.23	5.11	MW
	05/08/01	High	4.83	10.23	5.40	MW
937GW39	05/22/06	--	8.02	12.49	4.47	MW
	03/06/06	--	6.88	12.49	5.61	MW
	11/28/05	--	8.38	12.49	4.11	MW
	08/29/05	--	7.54	12.49	4.95	MW
	05/23/05	--	7.66	12.49	4.83	MW
	03/14/05	--	7.37	12.49	5.12	MW
	12/13/04	--	6.23	12.49	6.26	MW
	08/09/04	--	7.84	12.49	4.65	MW
	05/24/04	--	8.22	12.49	4.27	MW
	03/08/04	--	7.40	12.49	5.09	MW
	12/01/03	--	7.64	12.49	4.85	MW
	08/11/03	Low	8.56	12.49	3.93	MW
	06/02/03	Low	8.73	12.49	3.76	MW
	03/10/03	Low	8.26	12.49	4.23	MW
	12/02/02	Low	8.66	12.49	3.83	MW
	08/26/02	Low	8.75	12.49	3.74	MW
	05/28/02	Low	8.74	12.49	3.75	MW
	03/04/02	Low	8.06	12.49	4.43	MW

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
937GW39	11/26/01	Low	8.72	12.49	3.77	MW
	11/26/01	High	7.77	12.49	4.72	MW
	08/27/01	Low	8.37	12.49	4.12	MW
	08/27/01	High	8.47	12.49	4.02	MW
	05/08/01	Low	9.15	12.49	3.34	MW
	05/08/01	High	8.17	12.49	4.32	MW
937GW103	05/22/06	--	6.39	11.56	5.17	MW
	03/06/06	--	5.50	11.56	6.06	MW
	11/28/05	--	6.88	11.56	4.68	MW
	08/29/05	--	5.93	11.56	5.63	MW
	05/23/05	--	6.08	11.56	5.48	MW
	03/14/05	--	5.62	11.56	5.94	MW
	12/13/04	--	5.00	11.56	6.56	MW
	08/09/04	--	6.38	11.56	5.18	MW
	05/24/04	--	6.63	11.56	4.93	MW
	03/08/04	--	6.09	11.56	5.47	MW
	12/01/03	--	6.44	11.56	5.12	MW
	08/11/03	Low	7.15	11.56	4.41	MW
	06/02/03	Low	7.15	11.56	4.41	MW
	03/10/03	Low	6.82	11.56	4.74	MW
	12/02/02	Low	6.95	11.56	4.61	MW
	08/26/02	Low	7.30	11.56	4.26	MW
	05/28/02	Low	7.35	11.56	4.21	MW
	03/04/02	Low	6.59	11.56	4.97	MW
	11/26/01	Low	7.06	11.56	4.50	MW
	11/26/01	High	6.42	11.56	5.14	MW
	08/27/01	Low	7.16	11.56	4.40	MW
	08/27/01	High	7.15	11.56	4.41	MW
979GW117	05/22/06	--	11.07	12.17	1.10	MW
	03/06/06	--	7.96	12.17	4.21	MW
	11/28/05	--	8.25	12.17	3.92	MW
	08/29/05	--	8.32	12.17	3.85	MW
	05/23/05	--	8.58	12.17	3.59	MW
	03/14/05	--	7.84	12.17	4.33	MW
	12/13/04	--	7.97	12.17	4.20	MW
	08/09/04	--	8.63	12.17	3.54	MW
	05/24/04	--	9.41	12.17	2.76	MW
	03/08/04	--	9.65	12.17	2.52	MW
	12/01/03	--	10.05	12.17	2.12	MW
	08/11/03	Low	8.64	12.17	3.53	MW
	06/02/03	Low	10.73	12.17	1.44	MW
	03/18/03	Low	9.19 [4]	12.17	2.98	MW
	12/02/02	Low	9.16	12.17	3.01	MW
	08/26/02	Low	9.83	12.17	2.34	MW
	05/28/02	Low	9.39	12.17	2.78	MW
	03/04/02	Low	8.94	12.17	3.23	MW
	11/26/01	Low	8.50	12.17	3.67	MW

Table A-1-4
Groundwater Elevation Summary
Building 900s Area
Presidio of San Francisco, California

Well ID	Date	Tidal Cycle	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
979GW117	11/26/01	High	9.67	12.17	2.50	MW
	08/27/01	Low	8.61	12.17	3.56	MW
	08/27/01	High	8.54	12.17	3.63	MW

Notes
1- All depth to water measurements are an average of three measurements recorded in the field.
2 - Top of casing elevation is approximate due to damaged casing.
3 - This depth to water (7.68 feet) was measured on 4 June 2002 during sampling.
4 - This depth to water (9.19 feet) was measured at approximately 10:30 AM on 18 March 2003 during sampling.
MW - Monitoring well
-- = Groundwater level measurements were not collected on a tidal schedule beginning with Fourth Quarter 2003.
NM - Not measured
feet PLLW - feet above Presidio Lower Low Water vertical datum.

Table A-1-5
Summary of Vertical Gradients at Well Clusters
Building 900s Area
Presidio of San Francisco, California

Well Cluster (WC)	Well ID	Groundwater Zone	Date	Groundwater Elevation [1] (feet PLLW)	Ground Surface Elevation (feet PLLW)	Depth to Screen Midpoint (feet bgs)	Screen Midpoint Elevation [2] (feet PLLW)	**Shallow/Intermediate**			**Intermediate/Deep**			**Shallow/Deep**		
								Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)	Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)	Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)
Second Quarter 2006																
900WC-1	937GW06	Shallow	05/22/06	5.86	10.98	10.8	0.18	-0.19	-13.14	**0.014**	-0.050	-10.590	**0.005**	-0.240	-23.730	**0.010**
	937GW42	Intermediate	05/22/06	5.67	11.04	24.0	-12.96									
	937GW32R	Deep	05/22/06	5.62	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	05/22/06	6.58	11.81	10.0	1.81	0.02	-15.12	**-0.001**	-0.210	-15.130	**0.014**	-0.190	-30.250	**0.006**
	937GW102	Intermediate	05/22/06	6.60	11.69	25.0	-13.3									
	937GW103	Deep	05/22/06	6.39	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	05/22/06	7.99	12.56	10.0	2.56	-0.05	-15.00	**0.003**	3.130	-14.970	**-0.209**	3.080	-29.970	**-0.103**
	979GW116	Intermediate	05/22/06	7.94	12.56	25.0	-12.44									
	979GW117	Deep	05/22/06	11.07	12.59	40.0	-27.41									
First Quarter 2006																
900WC-1	937GW06	Shallow	03/06/06	6.52	10.98	10.8	0.18	-0.80	-13.14	**0.061**	0.430	-10.590	**-0.041**	-0.370	-23.730	**0.016**
	937GW42	Intermediate	03/06/06	5.72	11.04	24.0	-12.96									
	937GW32R	Deep	03/06/06	6.15	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	03/06/06	6.48	11.81	10.0	1.81	-0.22	-15.12	**0.015**	-0.200	-15.130	**0.013**	-0.420	-30.250	**0.014**
	937GW102	Intermediate	03/06/06	6.26	11.69	25.0	-13.3									
	937GW103	Deep	03/06/06	6.06	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	03/06/06	4.81	12.56	10.0	2.56	-0.02	-15.00	**0.001**	-0.580	-14.970	**0.039**	-0.600	-29.970	**0.020**
	979GW116	Intermediate	03/06/06	4.79	12.56	25.0	-12.44									
	979GW117	Deep	03/06/06	4.21	12.59	40.0	-27.41									
Fourth Quarter 2005																
900WC-1	937GW06	Shallow	11/28/05	4.75	10.98	10.8	0.18	-0.31	-13.14	**0.024**	0.110	-10.590	**-0.010**	-0.200	-23.730	**0.008**
	937GW42	Intermediate	11/28/05	4.44	11.04	24.0	-12.96									
	937GW32R	Deep	11/28/05	4.55	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	11/28/05	4.79	11.81	10.0	1.81	-0.19	-15.12	**0.013**	0.080	-15.130	**-0.005**	-0.110	-30.250	**0.004**
	937GW102	Intermediate	11/28/05	4.60	11.69	25.0	-13.3									
	937GW103	Deep	11/28/05	4.68	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	11/28/05	4.01	12.56	10.0	2.56	-0.05	-15.00	**0.003**	-0.040	-14.970	**0.003**	-0.090	-29.970	**0.003**
	979GW116	Intermediate	11/28/05	3.96	12.56	25.0	-12.44									
	979GW117	Deep	11/28/05	3.92	12.59	40.0	-27.41									

Table A-1-5
Summary of Vertical Gradients at Well Clusters
Building 900s Area
Presidio of San Francisco, California

Well Cluster (WC)	Well ID	Groundwater Zone	Date	Groundwater Elevation [1] (feet PLLW)	Ground Surface Elevation (feet PLLW)	Depth to Screen Midpoint (feet bgs)	Screen Midpoint Elevation [2] (feet PLLW)	**Shallow/Intermediate**			**Intermediate/Deep**			**Shallow/Deep**		
								Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)	Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)	Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)
Third Quarter 2005																
900WC-1	937GW06	Shallow	08/29/05	5.49	10.98	10.8	0.18	0.07	-13.14	**-0.005**	-0.100	-10.590	**0.009**	-0.030	-23.730	**0.001**
	937GW42	Intermediate	08/29/05	5.56	11.04	24.0	-12.96									
	937GW32R	Deep	08/29/05	5.46	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	08/29/05	5.53	11.81	10.0	1.81	0.04	-15.12	**-0.003**	0.060	-15.130	**-0.004**	0.100	-30.250	**-0.003**
	937GW102	Intermediate	08/29/05	5.57	11.69	25.0	-13.3									
	937GW103	Deep	08/29/05	5.63	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	08/29/05	4.30	12.56	10.0	2.56	0.00	-15.00	**0.000**	-0.450	-14.970	**0.030**	-0.450	-29.970	**0.015**
	979GW116	Intermediate	08/29/05	4.30	12.56	25.0	-12.44									
	979GW117	Deep	08/29/05	3.85	12.59	40.0	-27.41									
Second Quarter 2005																
900WC-1	937GW06	Shallow	05/23/05	5.47	10.98	10.8	0.18	0.05	-13.14	**-0.004**	-0.230	-10.590	**0.022**	-0.180	-23.730	**0.008**
	937GW42	Intermediate	05/23/05	5.52	11.04	24.0	-12.96									
	937GW32R	Deep	05/23/05	5.29	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	05/23/05	5.47	11.81	10.0	1.81	-0.08	-15.12	**0.005**	0.090	-15.130	**-0.006**	0.010	-30.250	**0.000**
	937GW102	Intermediate	05/23/05	5.39	11.69	25.0	-13.3									
	937GW103	Deep	05/23/05	5.48	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	05/23/05	4.29	12.56	10.0	2.56	0.00	-15.00	**0.000**	-0.700	-14.970	**0.047**	-0.700	-29.970	**0.023**
	979GW116	Intermediate	05/23/05	4.29	12.56	25.0	-12.44									
	979GW117	Deep	05/23/05	3.59	12.59	40.0	-27.41									
First Quarter 2005																
900WC-1	937GW06	Shallow	03/14/05	6.03	10.98	10.8	0.18	-0.19	-13.14	**0.014**	0.220	-10.590	**-0.021**	0.030	-23.730	**-0.001**
	937GW42	Intermediate	03/14/05	5.84	11.04	24.0	-12.96									
	937GW32R	Deep	03/14/05	6.06	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	03/14/05	6.05	11.81	10.0	1.81	-0.18	-15.12	**0.012**	0.070	-15.130	**-0.005**	-0.110	-30.250	**0.004**
	937GW102	Intermediate	03/14/05	5.87	11.69	25.0	-13.3									
	937GW103	Deep	03/14/05	5.94	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	03/14/05	4.50	12.56	10.0	2.56	-0.05	-15.00	**0.003**	-0.120	-14.970	**0.008**	-0.170	-29.970	**0.006**
	979GW116	Intermediate	03/14/05	4.45	12.56	25.0	-12.44									
	979GW117	Deep	03/14/05	4.33	12.59	40.0	-27.41									

Table A-1-5
Summary of Vertical Gradients at Well Clusters
Building 900s Area
Presidio of San Francisco, California

Well Cluster (WC)	Well ID	Groundwater Zone	Date	Groundwater Elevation [1] (feet PLLW)	Ground Surface Elevation (feet PLLW)	Depth to Screen Midpoint (feet bgs)	Screen Midpoint Elevation [2] (feet PLLW)	**Shallow/Intermediate**			**Intermediate/Deep**			**Shallow/Deep**		
								Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)	Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)	Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)
Fourth Quarter 2004																
900WC-1	937GW06	Shallow	12/13/04	6.37	10.98	10.8	0.18	0.08	-13.14	**-0.006**	0.140	-10.590	**-0.013**	0.220	-23.730	**-0.009**
	937GW42	Intermediate	12/13/04	6.45	11.04	24.0	-12.96									
	937GW32R	Deep	12/13/04	6.59	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	12/13/04	6.46	11.81	10.0	1.81	0.03	-15.12	**-0.002**	0.070	-15.130	**-0.005**	0.100	-30.250	**-0.003**
	937GW102	Intermediate	12/13/04	6.49	11.69	25.0	-13.3									
	937GW103	Deep	12/13/04	6.56	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	12/13/04	4.72	12.56	10.0	2.56	0.02	-15.00	**-0.001**	-0.540	-14.970	**0.036**	-0.520	-29.970	**0.017**
	979GW116	Intermediate	12/13/04	4.74	12.56	25.0	-12.44									
	979GW117	Deep	12/13/04	4.20	12.59	40.0	-27.41									
Third Quarter 2004																
900WC-1	937GW06	Shallow	08/09/04	4.97	10.98	10.8	0.18	-0.02	-13.14	**0.002**	0.070	-10.590	**-0.007**	0.050	-23.730	**-0.002**
	937GW42	Intermediate	08/09/04	4.95	11.04	24.0	-12.96									
	937GW32R	Deep	08/09/04	5.02	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	08/09/04	5.04	11.81	10.0	1.81	0.08	-15.12	**-0.005**	0.060	-15.130	**-0.004**	0.140	-30.250	**-0.005**
	937GW102	Intermediate	08/09/04	5.12	11.69	25.0	-13.3									
	937GW103	Deep	08/09/04	5.18	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	08/09/04	3.96	12.56	10.0	2.56	0.01	-15.00	**-0.001**	-0.430	-14.970	**0.029**	-0.420	-29.970	**0.014**
	979GW116	Intermediate	08/09/04	3.97	12.56	25.0	-12.44									
	979GW117	Deep	08/09/04	3.54	12.59	40.0	-27.41									
Second Quarter 2004																
900WC-1	937GW06	Shallow	05/24/04	4.87	10.98	10.8	0.18	-0.13	-13.14	**0.010**	0.030	-10.590	**-0.003**	-0.100	-23.730	**0.004**
	937GW42	Intermediate	05/24/04	4.74	11.04	24.0	-12.96									
	937GW32R	Deep	05/24/04	4.77	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	05/24/04	4.98	11.81	10.0	1.81	-0.10	-15.12	**0.007**	0.050	-15.130	**-0.003**	-0.050	-30.250	**0.002**
	937GW102	Intermediate	05/24/04	4.88	11.69	25.0	-13.3									
	937GW103	Deep	05/24/04	4.93	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	05/24/04	4.00	12.56	10.0	2.56	-0.05	-15.00	**0.003**	-1.190	-14.970	**0.079**	-1.240	-29.970	**0.041**
	979GW116	Intermediate	05/24/04	3.95	12.56	25.0	-12.44									
	979GW117	Deep	05/24/04	2.76	12.59	40.0	-27.41									

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Summary of Vertical Gradients at Well Clusters
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Well Cluster (WC)	Well ID	Groundwater Zone	Date	Groundwater Elevation [1] (feet PLLW)	Ground Surface Elevation (feet PLLW)	Depth to Screen Midpoint (feet bgs)	Screen Midpoint Elevation [2] (feet PLLW)	**Shallow/Intermediate**			**Intermediate/Deep**			**Shallow/Deep**		
								Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)	Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)	Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)
First Quarter 2004																
900WC-1	937GW06	Shallow	03/08/04	5.36	10.98	10.8	0.18	-0.14	-13.14	**0.011**	0.260	-10.590	**-0.025**	0.120	-23.730	**-0.005**
	937GW42	Intermediate	03/08/04	5.22	11.04	24.0	-12.96									
	937GW32R	Deep	03/08/04	5.48	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	03/08/04	5.46	11.81	10.0	1.81	-0.03	-15.12	**0.002**	0.040	-15.130	**-0.003**	0.010	-30.250	**0.000**
	937GW102	Intermediate	03/08/04	5.43	11.69	25.0	-13.3									
	937GW103	Deep	03/08/04	5.47	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	03/08/04	4.02	12.56	10.0	2.56	-0.02	-15.00	**0.001**	-1.480	-14.970	**0.099**	-1.500	-29.970	**0.050**
	979GW116	Intermediate	03/08/04	4.00	12.56	25.0	-12.44									
	979GW117	Deep	03/08/04	2.52	12.59	40.0	-27.41									
Fourth Quarter 2003																
900WC-1	937GW06	Shallow	12/01/03	5.20	10.98	10.8	0.18	-0.33	-13.14	**0.025**	0.160	-10.590	**-0.015**	-0.170	-23.730	**0.007**
	937GW42	Intermediate	12/01/03	4.87	11.04	24.0	-12.96									
	937GW32R	Deep	12/01/03	5.03	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	12/01/03	5.16	11.81	10.0	1.81	-0.06	-15.12	**0.004**	0.020	-15.130	**-0.001**	-0.040	-30.250	**0.001**
	937GW102	Intermediate	12/01/03	5.10	11.69	25.0	-13.3									
	937GW103	Deep	12/01/03	5.12	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	12/01/03	4.60	12.56	10.0	2.56	-0.01	-15.00	**0.001**	-2.470	-14.970	**0.165**	-2.480	-29.970	**0.083**
	979GW116	Intermediate	12/01/03	4.59	12.56	25.0	-12.44									
	979GW117	Deep	12/01/03	2.12	12.59	40.0	-27.41									
Third Quarter 2003, Low Tide																
900WC-1	937GW06	Shallow	08/11/03	4.58	10.98	10.8	0.18	-0.31	-13.14	**0.024**	0.070	-10.590	**-0.007**	-0.240	-23.730	**0.010**
	937GW42	Intermediate	08/11/03	4.27	11.04	24.0	-12.96									
	937GW32R	Deep	08/11/03	4.34	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	08/11/03	4.62	11.81	10.0	1.81	-0.23	-15.12	**0.015**	0.020	-15.130	**-0.001**	-0.210	-30.250	**0.007**
	937GW102	Intermediate	08/11/03	4.39	11.69	25.0	-13.3									
	937GW103	Deep	08/11/03	4.41	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	08/11/03	3.98	12.56	10.0	2.56	-0.04	-15.00	**0.003**	-0.410	-14.970	**0.027**	-0.450	-29.970	**0.015**
	979GW116	Intermediate	08/11/03	3.94	12.56	25.0	-12.44									
	979GW117	Deep	08/11/03	3.53	12.59	40.0	-27.41									

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Well Cluster (WC)	Well ID	Groundwater Zone	Date	Groundwater Elevation [1] (feet PLLW)	Ground Surface Elevation (feet PLLW)	Depth to Screen Midpoint (feet bgs)	Screen Midpoint Elevation [2] (feet PLLW)	**Shallow/Intermediate**			**Intermediate/Deep**			**Shallow/Deep**		
								Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)	Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)	Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)
Second Quarter 2003, Low Tide																
900WC-1	937GW06	Shallow	06/02/03	4.55	10.98	10.8	0.18	-0.04	-13.14	**0.003**	-0.220	-10.590	**0.021**	-0.260	-23.730	**0.011**
	937GW42	Intermediate	06/02/03	4.51	11.04	24.0	-12.96									
	937GW32R	Deep	06/02/03	4.29	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	06/02/03	4.60	11.81	10.0	1.81	-0.22	-15.12	**0.015**	0.030	-15.130	**-0.002**	-0.190	-30.250	**0.006**
	937GW102	Intermediate	06/02/03	4.38	11.69	25.0	-13.3									
	937GW103	Deep	06/02/03	4.41	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	06/02/03	3.77	12.56	10.0	2.56	-0.03	-15.00	**0.002**	-2.300	-14.970	**0.154**	-2.330	-29.970	**0.078**
	979GW116	Intermediate	06/02/03	3.74	12.56	25.0	-12.44									
	979GW117	Deep	06/02/03	1.44	12.59	40.0	-27.41									
First Quarter 2003, Low Tide																
900WC-1	937GW06	Shallow	03/10/03	4.76	10.98	10.8	0.18	0.11	-13.14	**-0.008**	-0.130	-10.590	**0.012**	-0.020	-23.730	**0.001**
	937GW42	Intermediate	03/10/03	4.87	11.04	24.0	-12.96									
	937GW32R	Deep	03/10/03	4.74	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	03/10/03	4.72	11.81	10.0	1.81	-0.06	-15.12	**0.004**	0.080	-15.130	**-0.005**	0.020	-30.250	**-0.001**
	937GW102	Intermediate	03/10/03	4.66	11.69	25.0	-13.3									
	937GW103	Deep	03/10/03	4.74	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	03/10/03	4.29	12.56	10.0	2.56	0.00	-15.00	**0.000**	-1.310	-14.970	**0.088**	-1.310	-29.970	**0.044**
	979GW116	Intermediate	03/10/03	4.29	12.56	25.0	-12.44									
	979GW117	Deep	03/18/03	2.98	12.59	40.0	-27.41									
Fourth Quarter 2002, Low Tide																
900WC-1	937GW06	Shallow	12/02/02	4.92	10.98	10.8	0.18	-0.36	-13.14	**0.027**	-0.060	-10.590	**0.006**	-0.420	-23.730	**0.018**
	937GW42	Intermediate	12/02/02	4.56	11.04	24.0	-12.96									
	937GW32R	Deep	12/02/02	4.5	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	12/02/02	4.93	11.81	10.0	1.81	-0.34	-15.12	**0.022**	0.020	-15.130	**-0.001**	-0.320	-30.250	**0.011**
	937GW102	Intermediate	12/02/02	4.59	11.69	25.0	-13.3									
	937GW103	Deep	12/02/02	4.61	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	12/02/02	4.33	12.56	10.0	2.56	-0.04	-15.00	**0.003**	-1.280	-14.970	**0.086**	-1.320	-29.970	**0.044**
	979GW116	Intermediate	12/02/02	4.29	12.56	25.0	-12.44									
	979GW117	Deep	12/02/02	3.01	12.59	40.0	-27.41									

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Building 900s Area
Presidio of San Francisco, California

Well Cluster (WC)	Well ID	Groundwater Zone	Date	Groundwater Elevation [1] (feet PLLW)	Ground Surface Elevation (feet PLLW)	Depth to Screen Midpoint (feet bgs)	Screen Midpoint Elevation [2] (feet PLLW)	**Shallow/Intermediate**			**Intermediate/Deep**			**Shallow/Deep**		
								Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)	Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)	Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)
Third Quarter 2002, Low Tide																
900WC-1	937GW06	Shallow	08/26/02	4.38	10.98	10.8	0.18	-0.03	-13.14	**0.002**	-0.120	-10.590	**0.011**	-0.150	-23.730	**0.006**
	937GW42	Intermediate	08/26/02	4.35	11.04	24.0	-12.96									
	937GW32R	Deep	08/26/02	4.23	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	08/26/02	4.35	11.81	10.0	1.81	-0.13	-15.12	**0.009**	0.040	-15.130	**-0.003**	-0.090	-30.250	**0.003**
	937GW102	Intermediate	08/26/02	4.22	11.69	25.0	-13.3									
	937GW103	Deep	08/26/02	4.26	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	08/26/02	3.65	12.56	10.0	2.56	-0.02	-15.00	**0.001**	-1.290	-14.970	**0.086**	-1.310	-29.970	**0.044**
	979GW116	Intermediate	08/26/02	3.63	12.56	25.0	-12.44									
	979GW117	Deep	08/26/02	2.34	12.59	40.0	-27.41									
Second Quarter 2002, Low Tide																
900WC-1	937GW06	Shallow	05/28/02	4.38	10.98	10.8	0.18	-0.26	-13.14	**0.020**	0.010	-10.590	**-0.001**	-0.250	-23.730	**0.011**
	937GW42	Intermediate	05/28/02	4.12	11.04	24.0	-12.96									
	937GW32R	Deep	05/28/02	4.13	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	05/28/02	4.38	11.81	10.0	1.81	-0.20	-15.12	**0.013**	0.030	-15.130	**-0.002**	-0.170	-30.250	**0.006**
	937GW102	Intermediate	05/28/02	4.18	11.69	25.0	-13.3									
	937GW103	Deep	05/28/02	4.21	11.56	40.0	-28.44									
900WC-3	979GW115	Shallow	05/28/02	3.81	12.56	10.0	2.56	-0.03	-15.00	**0.002**	-0.550	-14.970	**0.037**	-0.580	-29.970	**0.019**
	979GW116	Intermediate	05/28/02	3.78	12.56	25.0	-12.44									
	979GW117	Deep	05/28/02	3.23	12.59	40.0	-27.41									
First Quarter 2002, Low Tide																
900WC-1	937GW06	Shallow	03/04/02	5.12	10.98	10.8	0.18	-0.19	-13.14	**0.014**	-0.020	-10.590	**0.002**	-0.210	-23.730	**0.009**
	937GW42	Intermediate	03/04/02	4.93	11.04	24.0	-12.96									
	937GW32R	Deep	03/04/02	4.91	10.95	34.5	-23.55									
900WC-2	937GW101	Shallow	03/04/02	5.00	11.81	10.0	1.81	-0.11	-15.12	**0.007**	0.080	-15.130	**-0.005**	-0.030	-30.250	**0.001**
	937GW102	Intermediate	03/04/02	4.89	11.69	25.0	-13.3									
	937GW103	Deep	03/04/02	4.97	11.56	40.0	-28.44									

Table A-1-5
Summary of Vertical Gradients at Well Clusters
Building 900s Area
Presidio of San Francisco, California

Well Cluster (WC)	Well ID	Groundwater Zone	Date	Groundwater Elevation [1] (feet PLLW)	Ground Surface Elevation (feet PLLW)	Depth to Screen Midpoint (feet bgs)	Screen Midpoint Elevation [2] (feet PLLW)	**Shallow/Intermediate**			**Intermediate/Deep**			**Shallow/Deep**		
								Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)	Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)	Difference in Groundwater Elevation (feet PLLW)	Difference in Screen Midpoint Elevation (feet PLLW)	Vertical Gradient [3] (feet/foot)
900WC-3	979GW115	Shallow	03/04/02	4.61	12.56	10.0	2.56	-0.01	-15.00	**0.001**	-1.370	-14.970	**0.092**	-1.380	-29.970	**0.046**
	979GW116	Intermediate	03/04/02	4.60	12.56	25.0	-12.44									
	979GW117	Deep	03/04/02	3.23	12.59	40.0	-27.41									

Notes

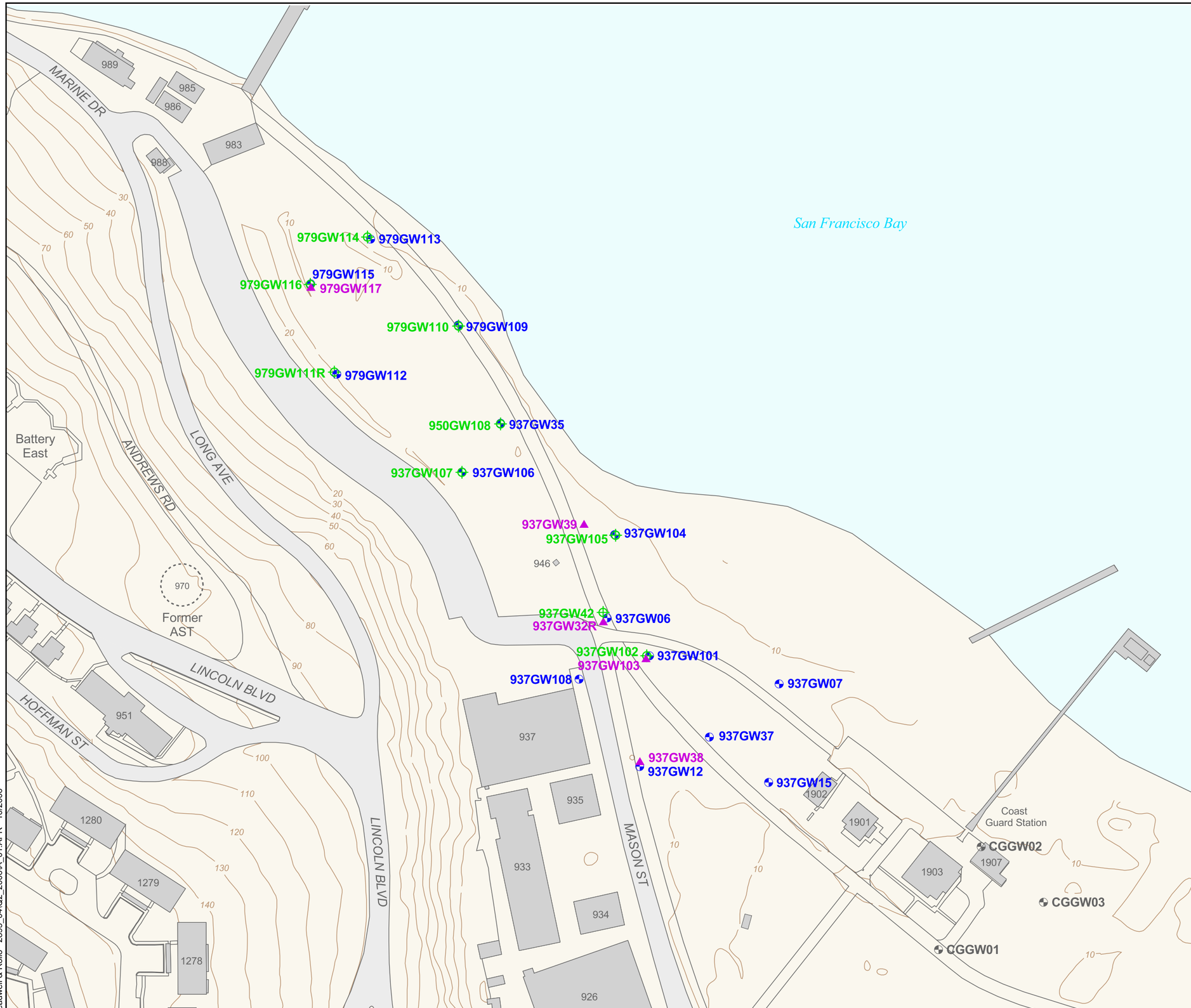
feet PLLW - feet above Presidio Lower Low Water vertical datum.

bgs - below ground surface

1 - Groundwater elevations are presented in Table A-1-4.

2 - The screen midpoint elevations are calculated by subtracting the depth to the screen midpoint from the ground surface elevation (Montgomery Watson, 1999i).

3 - Vertical gradients are calculated by dividing the vertical difference in groundwater elevations between two adjacent wells screened in different vertical locations within the water-bearing zone by the vertical difference between the midpoint elevations of the two well screens (Table 3). The value for the shallower well is subtracted from that of the deeper well. A positive value indicates a downward vertical gradient, while a negative number indicates an upward vertical gradient. For the groundwater and screen midpoint elevations, the absolute difference between the elevations and depths are calculated.



N

150 0 150 Feet

LEGEND

937GW06	Shallow Groundwater Monitoring Well
937GW42	Intermediate Groundwater Monitoring Well
937GW103	Deep Groundwater Monitoring Well
CGGW01	Adjacent Study Area Shallow Groundwater Well
	Topographic Contour (Contour Interval : 10 ft)
935	Building and Number

Notes:
Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datum: (topography) North American Vertical Datum, NAVD88

BUILDING 900s AREA SITE PLAN

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FIGURE A-1-1

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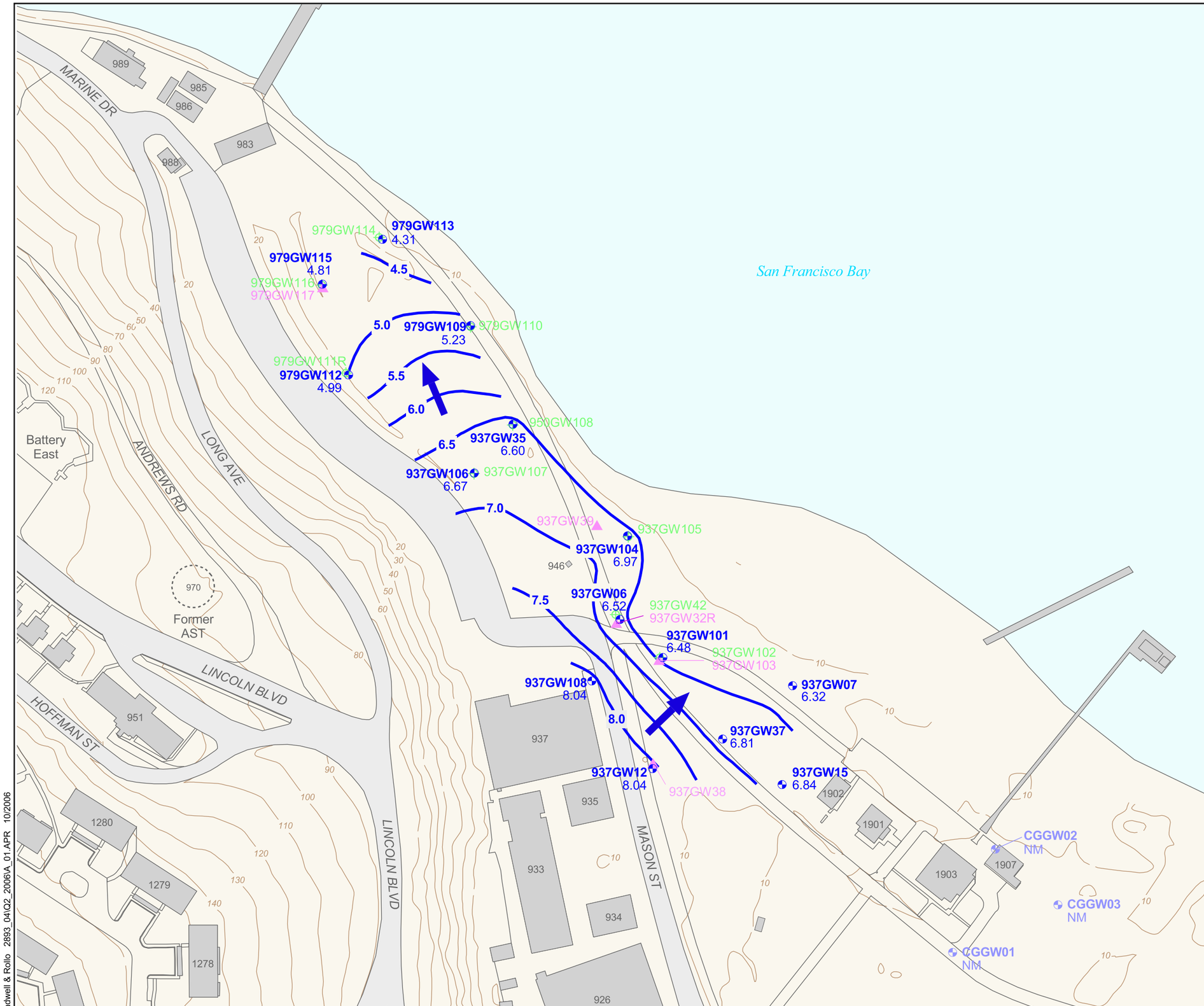

N

150 0 150 Feet

LEGEND

937GW06 6.52	Shallow Groundwater Monitoring Well March 2006 Groundwater Elevation
CGGW01	Adjacent Study Area Shallow Groundwater Well
NM	Not Measured. Well approved for removal from the groundwater monitoring program prior to the Second Quarter 2004.
937GW42	Intermediate Groundwater Monitoring Well
937GW103	Deep Groundwater Monitoring Well
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval : 0.5 ft)
	Topographic Contour (Contour Interval : 10 ft)
935	Building and Number

Notes:
Groundwater elevation data collected on 6 March 2006.

Monitoring wells in BOLD were used in groundwater contouring.

Elevation of well 937GW07 is approximate due to damage to top of casing.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

BUILDING 900s AREA
6 MARCH 2006
GROUNDWATER ELEVATION MAP
SHALLOW ZONE

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FIGURE A-1-2

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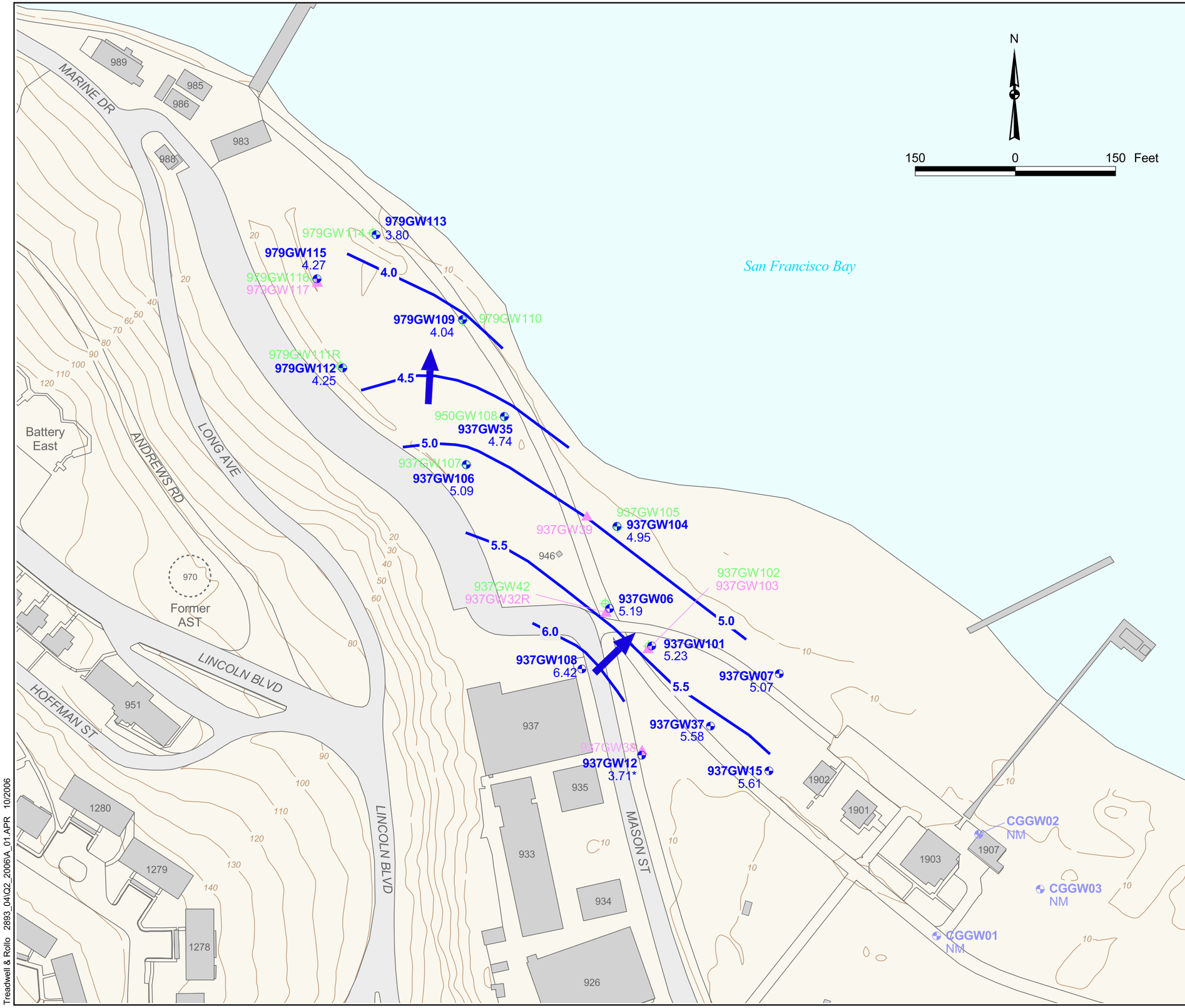

LEGEND

937GW06 5.19	Shallow Groundwater Monitoring Well May 2006 Groundwater Elevation
*	The groundwater measure within this well is significantly lower than historical values and therefore appears to be anomalous. Therefore, this well was not used in groundwater contouring.
CGGW01	Adjacent Study Area Shallow Groundwater Well
NM	Not Measured. Well approved for removal from the groundwater monitoring program prior to the Second Quarter 2004.
937GW42	Intermediate Groundwater Monitoring Well
937GW103	Deep Groundwater Monitoring Well
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval : 0.5 ft)
	Topographic Contour (Contour Interval : 10 ft)
935	Building and Number

Notes:
Groundwater elevation data collected on 22 May 2006.

Monitoring wells in BOLD were used in groundwater contouring.

Elevation of well 937GW07 is approximate due to damage to top of casing.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW)
(topography) North American Vertical Datum, NAVD88

BUILDING 900s AREA
22 MAY 2006
GROUNDWATER ELEVATION MAP
SHALLOW ZONE

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FIGURE A-1-3

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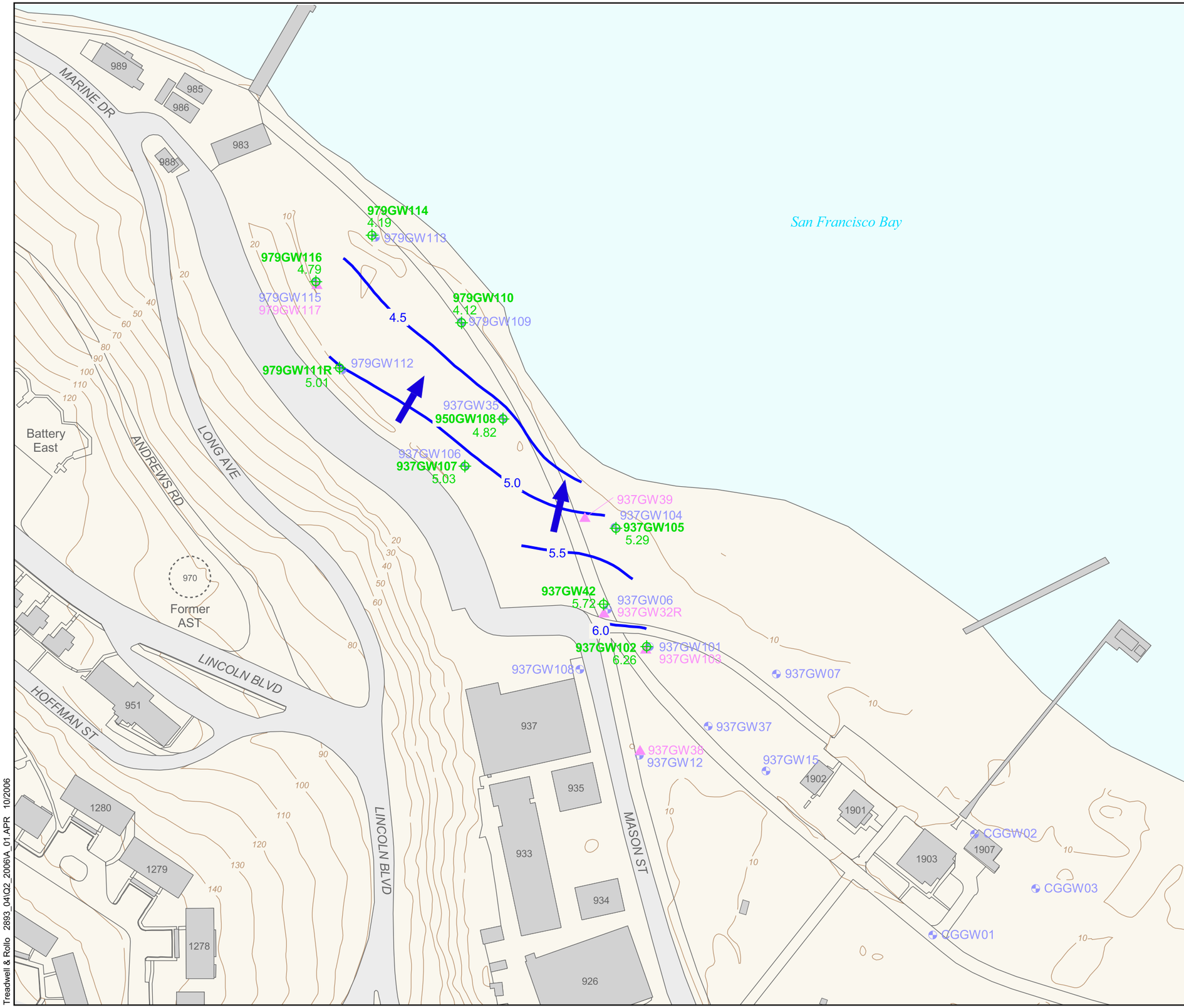

N

150 0 150 Feet

LEGEND

937GW42 5.72	Intermediate Groundwater Monitoring Well March 2006 Groundwater Elevation
937GW06	Shallow Groundwater Monitoring Well
937GW103	Deep Groundwater Monitoring Well
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval : 0.5 ft)
	Topographic Contour (Contour Interval : 10 ft)
935	Building and Number

Notes:
Groundwater elevation data collected on 6 March 2006.

Monitoring wells in BOLD were used in groundwater contouring.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW)
(topography) North American Vertical Datum, NAVD88

BUILDING 900s AREA
6 MARCH 2006
GROUNDWATER ELEVATION MAP
INTERMEDIATE ZONE

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FIGURE A-1-4

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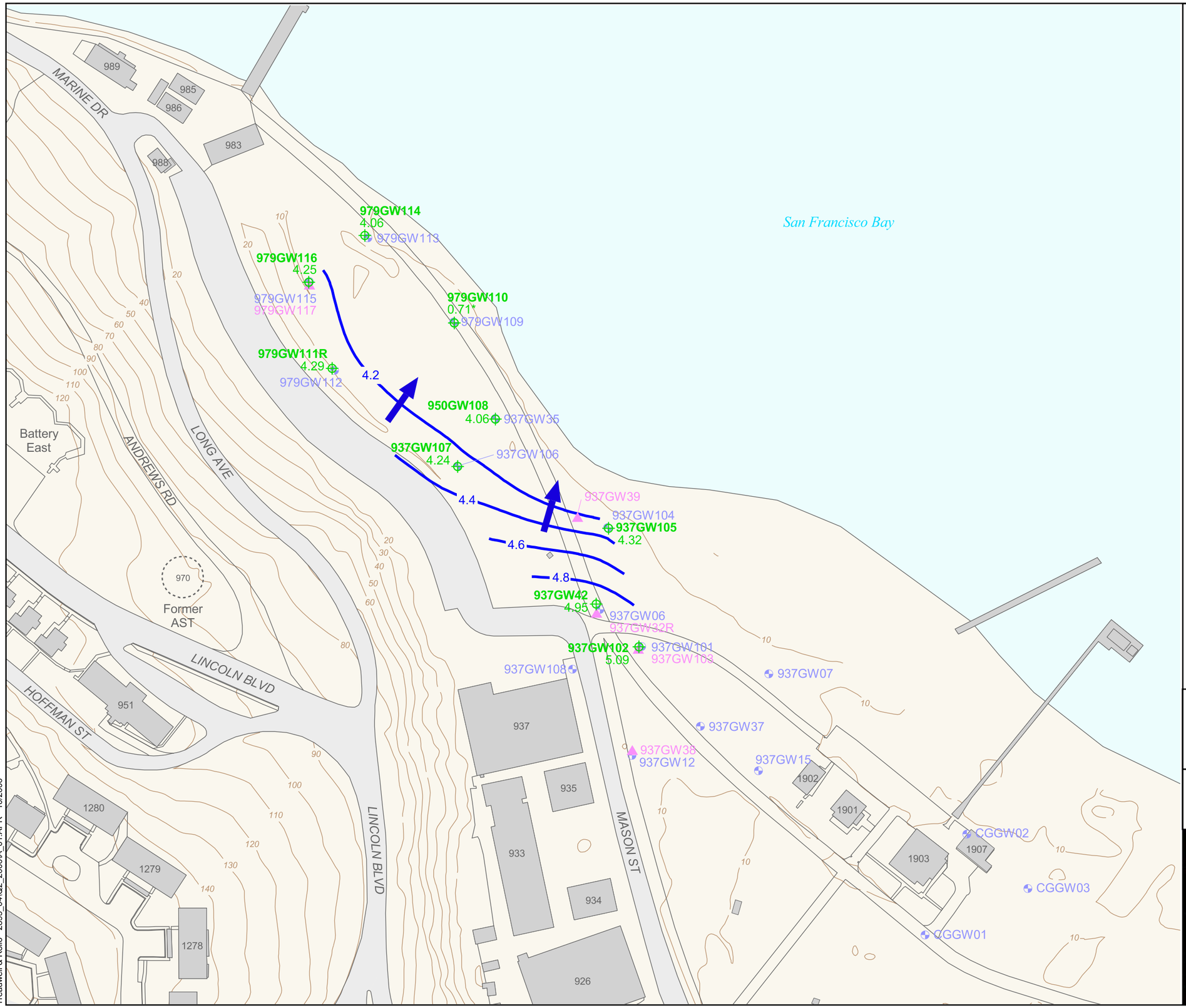

N

150 0 150 Feet

LEGEND

937GW42 4.95	Intermediate Groundwater Monitoring Well May 2006 Groundwater Elevation
*	The groundwater measure within this well is significantly lower than historical values and therefore appears to be anomalous. Therefore, this well was not used in groundwater contouring.
937GW06	Shallow Groundwater Monitoring Well
937GW103	Deep Groundwater Monitoring Well
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval : 0.2 ft)
	Topographic Contour (Contour Interval : 10 ft)
935	Building and Number

Notes:
Groundwater elevation data collected on 22 May 2006.

Monitoring wells in BOLD were used in groundwater contouring.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW)
(topography) North American Vertical Datum, NAVD88

BUILDING 900s AREA
22 MAY 2006
GROUNDWATER ELEVATION MAP
INTERMEDIATE ZONE

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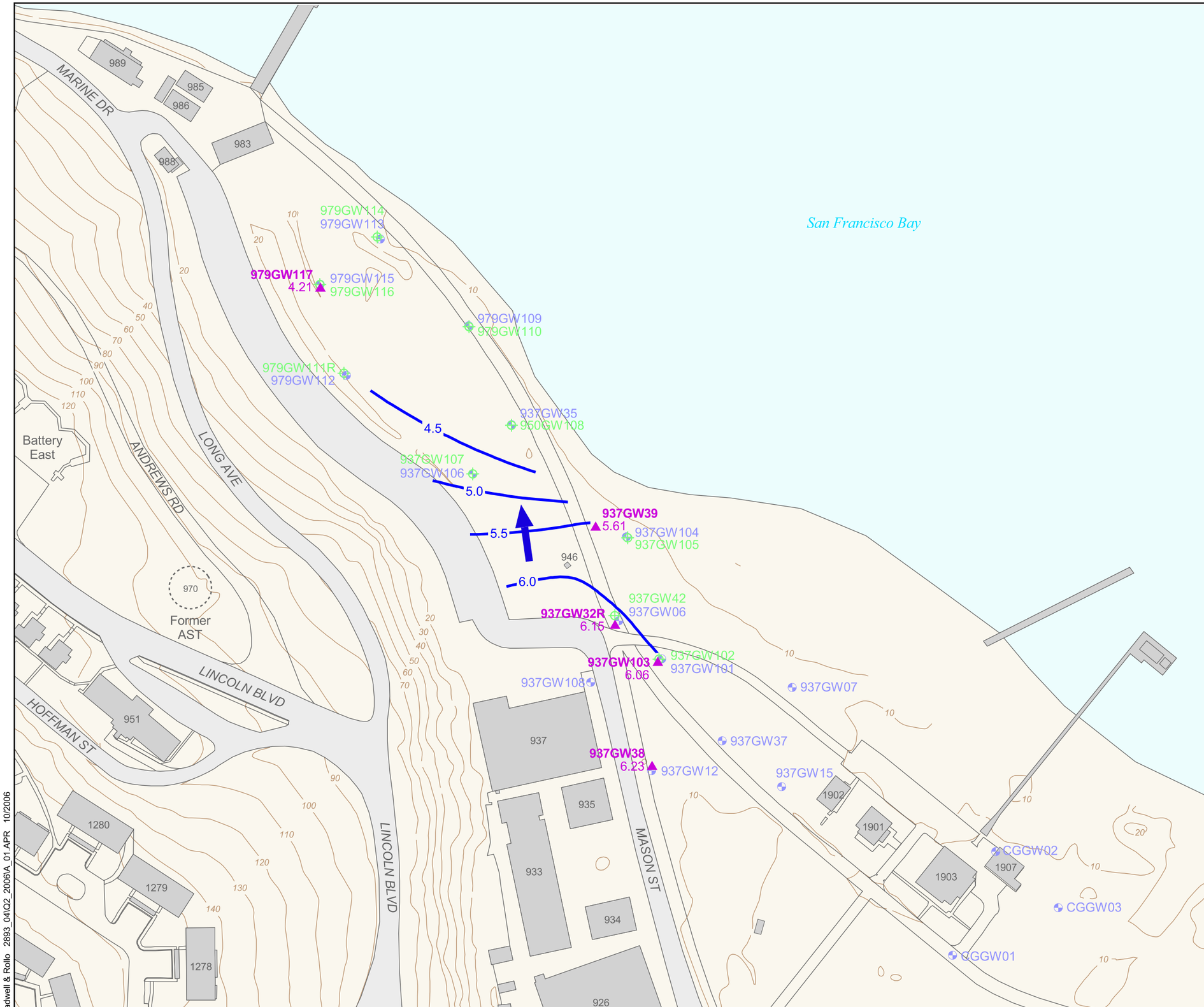
FIGURE A-1-5

Treadwell & Rollo 2893_04\Q2_2006\A_01.APR 10/2006



N

150 0 150 Feet

LEGEND

▲ 937GW103 6.06	Deep Groundwater Monitoring Well March 2006 Groundwater Elevation
937GW06	Shallow Groundwater Monitoring Well
937GW42	Intermediate Groundwater Monitoring Well
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval : 0.5 ft)
	Topographic Contour (Contour Interval : 10 ft)
935	Building and Number

Notes:
Groundwater elevation data collected on 6 March 2006.

Monitoring wells in BOLD were used in groundwater contouring.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW)
(topography) North American Vertical Datum, NAVD88

BUILDING 900s AREA
6 MARCH 2006
GROUNDWATER ELEVATION MAP
DEEP ZONE

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FIGURE A-1-6

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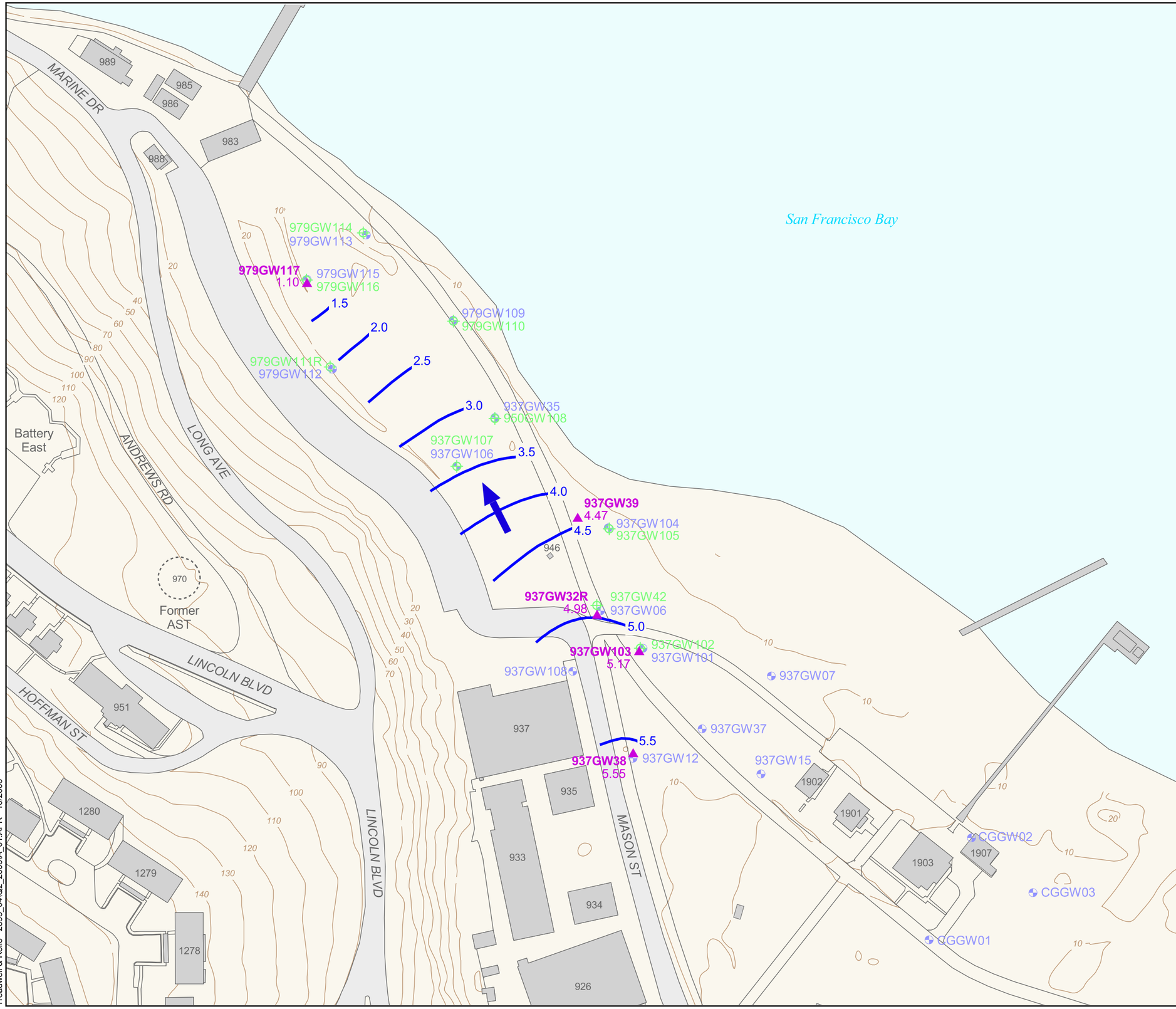

N

150 0 150 Feet

LEGEND

▲ 937GW103 5.17	Deep Groundwater Monitoring Well May 2006 Groundwater Elevation
937GW06	Shallow Groundwater Monitoring Well
937GW42	Intermediate Groundwater Monitoring Well
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval : 0.5 ft)
	Topographic Contour (Contour Interval : 10 ft)
935	Building and Number

Notes:
Groundwater elevation data collected on 22 May 2006.

Monitoring wells in BOLD were used in groundwater contouring.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW)
(topography) North American Vertical Datum, NAVD88

BUILDING 900s AREA
22 MAY 2006
GROUNDWATER ELEVATION MAP
DEEP ZONE

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FIGURE A-1-7

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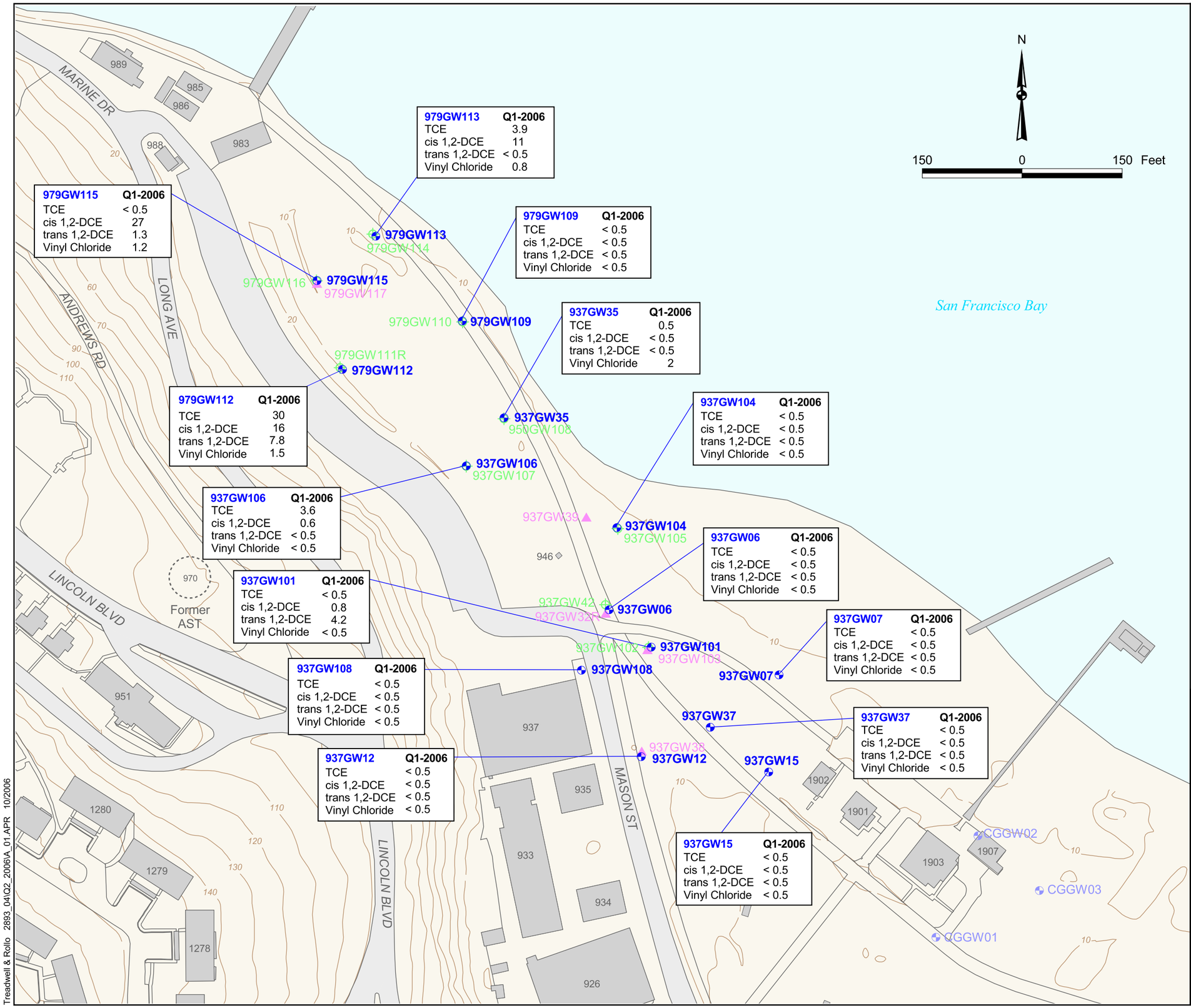

LEGEND

937GW06	Shallow Groundwater Monitoring Well
CGGW01	Adjacent Shallow Groundwater Study Area Monitoring Well
937GW42	Intermediate Groundwater Monitoring Well
937GW103	Deep Groundwater Monitoring Well
	Topographic Contour (Contour Interval : 10 ft)
935	Building and Number

Notes:
Building 900s Area monitoring wells were only scheduled to be sampled during the First Quarter 2006 in accordance to the proposed plan.

Groundwater concentration data in µg/L - micrograms per liter

CLEANUP LEVELS:
TCE - Trichloroethene - 81 µg/L
cis 1,2-DCE - cis 1,2-Dichloroethene - 140,000 µg/L
trans 1,2-DCE - trans 1,2 Dichloroethene - 140,000 µg/L
Vinyl Chloride - 525 µg/L

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datum: (topography) North American Vertical Datum, NAVD88

BUILDING 900s AREA
2006 CHEMICAL CONCENTRATION MAP
TCE, DCE, AND VINYL CHLORIDE IN SHALLOW GROUNDWATER

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FIGURE A-1-8

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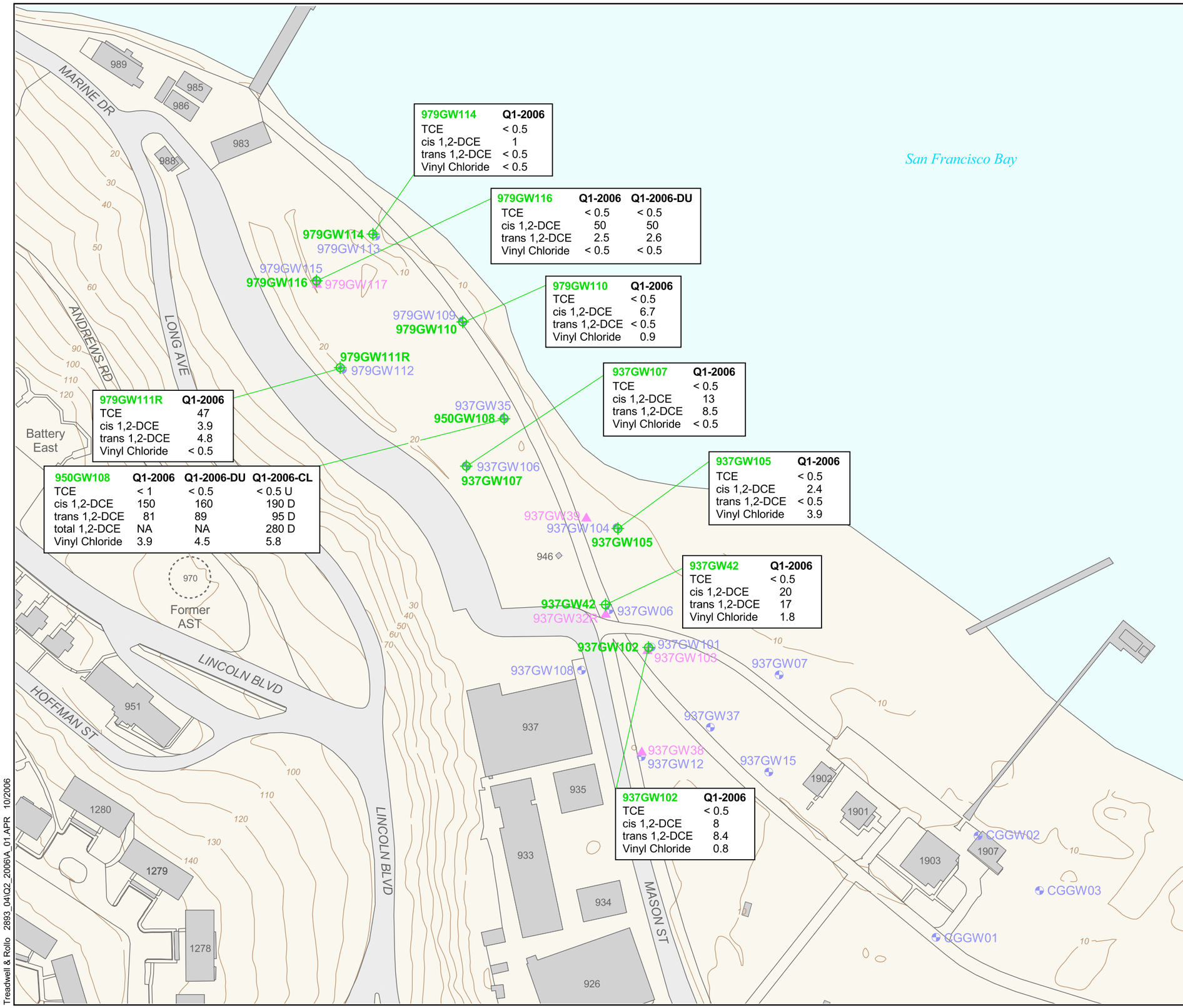

N

150 0 150 Feet

LEGEND

937GW42 Intermediate Groundwater Monitoring Well

937GW06 Shallow Groundwater Monitoring Well

937GW103 Deep Groundwater Monitoring Well

Topographic Contour (Contour Interval : 10 ft)

935 Building and Number

Notes:
Building 900s Area monitoring wells were only scheduled to be sampled during the First Quarter 2006 in accordance to the proposed plan.

Groundwater concentration data in µg/L - micrograms per liter

CLEANUP LEVELS:
TCE - Trichloroethene - 81 µg/L
cis 1,2-DCE - cis 1,2-Dichloroethene - 140,000 µg/L
trans 1,2-DCE - trans 1,2 Dichloroethene - 140,000 µg/L
total 1,2-DCE - cis & trans 1,2 Dichloroethene
Vinyl Chloride - 525 µg/L

CL - Quality Control Duplicate
DU - Blind Duplicate

Refer to Table 11 for data qualifiers.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datum: (topography) North American Vertical Datum, NAVD88

BUILDING 900s AREA
2006 CHEMICAL CONCENTRATION MAP
TCE, DCE, AND VINYL CHLORIDE IN INTERMEDIATE GROUNDWATER

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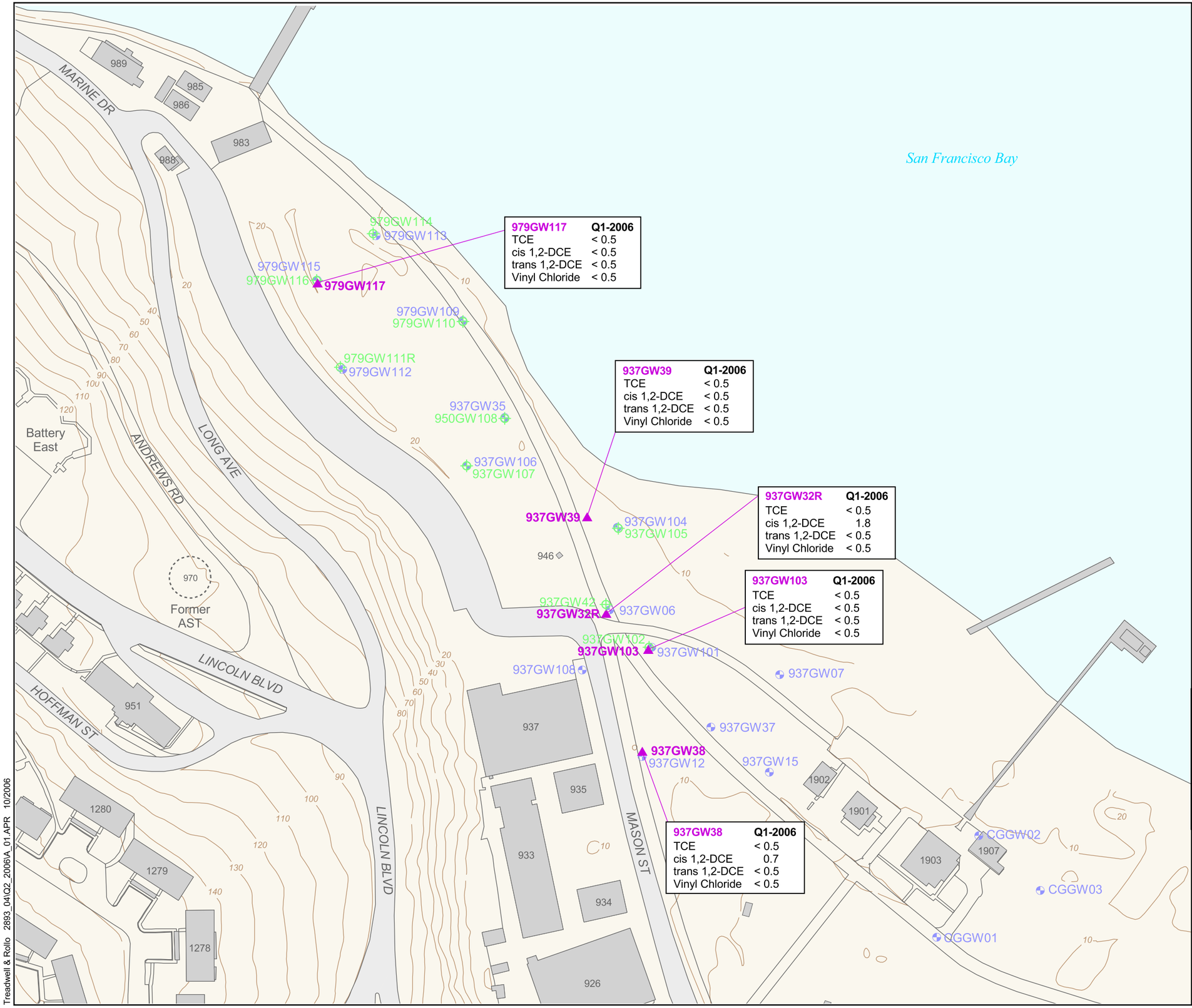
FIGURE A-1-9

Treadwell & Rollo 2893_04\Q2_2006\A_01.APR 10/2006



N

150 0 150 Feet

LEGEND

- ▲ 937GW103 Deep Groundwater Monitoring Well
- 937GW06 Shallow Groundwater Monitoring Well
- 937GW42 Intermediate Groundwater Monitoring Well
- Topographic Contour (Contour Interval : 10 ft)
- 935 Building and Number

Notes:
Building 900s Area monitoring wells were only scheduled to be sampled during the First Quarter 2006 in accordance to the proposed plan.

Groundwater concentration data in µg/L - micrograms per liter

CLEANUP LEVELS:
TCE - Trichloroethene - 81 µg/L
cis 1,2-DCE - cis 1,2-Dichloroethene - 140,000 µg/L
trans 1,2-DCE - trans 1,2 Dichloroethene - 140,000 µg/L
Vinyl Chloride - 525 µg/L

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datum: (topography) North American Vertical Datum, NAVD88

BUILDING 900s AREA
2006 CHEMICAL CONCENTRATION MAP
TCE, DCE, AND VINYL CHLORIDE
IN DEEP GROUNDWATER

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FIGURE A-1-10

Treadwell & Rollo 2893_04\Q2_2006\A_01.APR 10/2006

First Quarter 2006

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. 900 | Well No.: 937 GW 06

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/14/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 18.14

Depth to Water (WL, ft. below TOC): 4.73

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22
6	2	0.555

PURGE METHOD

[ ] Low Flow
[ ] Normal
[X] Modified (max 5 gpm)
[X] Bailer \ Type: Disposable
[ ] Pump \ Type
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

13.41 (Water Column Length) X 0.555 (Water Volume/ft) X 3 (No. Vols) = 22.33 gals CALCULATED PURGE VOLUME

Total Purge Time: 15 min.

Recharge Rate:

Purge Rate: 0.9/avg.

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type:

Time	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
12.53	initial	7.39	16.6	Pre 0.85	1189	—	13	
1302	0.9	7.35	16.2	—	1135	—	8	
1305	1.8	7.36	15.9	—	1105	—	4	
1308	2.9	7.36	15.6	Post 0.98	1101	—	1	

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/14/06 / 1315

Purging Equipment: Pump - Type: | (Bailer) - Type: Disposable | Other:

Sample Filtered: Yes / (No) Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937 GW 06	6 1L VOAs	C+T	2042	
	1 NP Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 900's
Well No.: ~~437 GW07~~ 937GW07
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: John DeJong
Sampled by: John DeJong
Date: 3/14/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 15.61

Depth to Water (WL, ft. below TOC): 8.18

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type Peri
[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 11.5'
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate
Purge Rate 2.25gpm

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI / HACH

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1537	Initial	7.64	15.71	—	719	—	6	clear
1540	0.75	7.56	15.60	—	653	—	7	↓
1543	1.5	7.50	15.52	—	630	—	6	↓
1546	2.25	7.52	15.48	post 0.23	633	—	6	↓

Comments: Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/14/06 1555

Purging Equipment: Pump - Type Peri Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937GW07	6 HCl 1 Nitric Amber	CTT	2041	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 937GW12

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: B Prowd | Sampled by: B Prowd | Date: 3/13/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 12.48

Depth to Water (WL, ft. below TOC): 2.46

Depth to free phase (FP, ft. below TOC): —

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 2" Grundfos
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) 12
[ ] Other

PURGE VOLUME CALCULATION

10.02 (Water Column Length) x .56 (Water Volume/ft) x 3 (No. Vols) = 16.8 gals CALCULATED PURGE VOLUME

Total Purge Time: 23 min

Recharge Rate: 2 gpm | Purge Rate: 1 gpm

17.0 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Horiba / Myron / YSI

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1157	6.0	7.2	13.4	—	3.95	—	11.7	
1205	11.5	7.2	13.2	—	4.42	—	4.84	
1213	17.0	7.3	13.1	—	4.50	—	4.33	
1220	—	—	15.4	5.17	—	—	—	

Comments: Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 3/13/06 / 1220

Purging Equipment: Pump - Type 2" Grundfos | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937GW12	6 40mL	C+T	2037	
	1 L	L		

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 900's
Well No.: 937GW15
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: John DeJong
Sampled by: John DeJong
Date: 3/15/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 11.35
Depth to Water (WL, ft. below TOC): 6.38
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged
[ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD
[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type: peri
[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE
[X] Near top Depth (ft): 8.5'
[ ] Near Bottom Depth (ft):
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate
Purge Rate: .3gpm

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI, HACH

Time	Liters or Gallons	pH	Temp °C/F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
0922	Initial	6.87	13.51	—	669	—	3	clear
0925	.9	7.09	13.54	—	643	—	2	
0928	1.8	7.31	13.53	—	644	—	3	
0931	2.7	7.28	13.59	—	647	—	2	
0934	3.6	7.29	13.58	post: 0.40	647	—	2	

Comments
Purge water storage/disposal [ ] Drummed onsite [ ] Other: Baker tank

WELL SAMPLING

SAMPLING METHOD
Date/Time Sampled: 3/15/06, 0940

Purging Equipment: Pump - Type: peri Bailer - Type: Other:
Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937GW15	6 HCl	C&T	2044	
	1 NP Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. 900 | Well No.: 937GW32R

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/13/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 39.59

Depth to Water (WL, ft. below TOC): 4.96

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22
11	4	1.937

PURGE METHOD

[ ] Low Flow [X] Normal [ ] Modified (max 5 gpm)

[ ] Bailer \ Type [ ] Pump \ Type 3" Sub [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 5'

[X] Near Bottom Depth (ft) 8'

[ ] Other

PURGE VOLUME CALCULATION

34.63 (Water Column Length) x 1.937 (Water Volume/ft) x 3 (No. Vols) = 201.2 gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate ~5 gal/min.

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
920 / 67.07	7.04	16.1	—	3065	—	7	Pink water
933 / 134.14	7.14	17.1	—	3042	—	3	
946 / 201.20	7.20	17.9	Pack 0.73	3016	—	2	
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Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/13/06 / 955

Purging Equipment: Pump - Type: Bailer - Type: Disposable Other:

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC # TR	Comments
937GW32R	6 HCL Vocs	CET	~~2038~~	
	1 NP Amber		2042	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. 900 | Well No.: 937GW35

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/13/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 14.28

Depth to Water (WL, ft. below TOC): 6.10

Depth to free phase (FP, ft. below TOC):

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

PURGE METHOD

[ ] Low Flow [X] Normal [ ] Modified (max 5 gpm)

[ ] Bailer \ Type [ ] Pump \ Type 3" Sub [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 8'

[X] Near Bottom Depth (ft) 10'

[ ] Other

PURGE VOLUME CALCULATION

8.18 (Water Column Length) x 1.68 (Water Volume/ft) x 3 (No. Vols) = 41.23 gals CALCULATED PURGE VOLUME

Total Purge Time: 22 min.

Recharge Rate:

Purge Rate: ~5 gal. min.

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type:

Time	Liters or Gallons	pH	Temp @ °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1419	13.74	7.99	15.1	—	776	—	56	
1430	27.48	7.45	14.5	—	1254		51	Trouble start pump
1436	—	* well	dewatered	at 11.15	30 gal.		35	
1445	—	7.48	13.9	Post 0.51	1426	—	10	DTW = 7.70
								80% = 7.74

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/13/06 / 1445

Purging Equipment: Pump - Type: Bailer - Type: Disposable Other:

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937GW35	6 HCL VOAs	CET	2038	
	1 NP Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. 900 | Well No.: 937 GW 37

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/13/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 16.13

Depth to Water (WL, ft. below TOC): 6.13

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type: 3" Sub
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft): 8'
[X] Near Bottom Depth (ft): 12'
[ ] Other

PURGE VOLUME CALCULATION

10 ft (Water Column Length) x 2.22 (Water Volume/ft) x 3 (No. Vols) = 66.6 gals CALCULATED PURGE VOLUME

Total Purge Time: 25 min.

Recharge Rate:

Purge Rate: ~5 gal/min.

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI, HACH, Myron

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1057	22.2	6.4	13.4	—	804	—	30	
1101	44.4	6.7	13.8	—	856	—	8	
1105	66.6	6.7	13.9	—	809	—	2	
1109	88.8	6.8	14.0	—	850	—	101	
1113	111.0	6.8	14.0	Tch 0.34	890	—	3	

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/13/06 / 1120

Purging Equipment: Pump - Type: Bailer - Type: Disposable Other:

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937 GW 37	6 HCL vocs/1 NO3 Amber	CET	2030	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. 900 | Well No.: 9376 w 38

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/13/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 46.97

Depth to Water (WL, ft. below TOC): 3.84

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal DR [ ] Pump \ Type 3" Sub
[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 5'
[X] Near Bottom Depth (ft) 40'
[ ] Other

PURGE VOLUME CALCULATION

43.13 (Water Column Length) x 2.22 (Water Volume/ft) x 3 (No. Vols) = gals CALCULATED PURGE VOLUME

Total Purge Time: 15 min

Recharge Rate: | Purge Rate: ~5 gal/min.

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type:

Time	/ Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND µS/cm	ORP (mV)	Turbidity (NTU)	Comments
1212	/ 15 gal	10.24	15.0	Pre 0.32	1389	—	7	
1215	/ 30	10.52	16.5	—	1404	—	5	
1218	/ 45	10.16	16.6	—	1382	—	4	
1221	/ 60	8.31	16.8	—	1379	—	2	
1224	/ 75	8.27	17.3	Post 0.52	1375	—	1	
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Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other Bailer Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/13/06 / 1230

Purging Equipment: Pump - Type | Bailer - Type Disposable | Other

Sample Filtered: Yes / No | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
9376W38	6 1-L VOAs	C+T	2038	
	1 NP Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. 900 — Well No.: 937GW39

Project Number: 2893 — Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR — Sampled by: DR — Date: 3/13/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 14.18

Depth to Water (WL, ft. below TOC): 6.88

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable

[ ] Normal [ ] Pump \ Type

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

7.3 (Water Column Length) x 2.22 (Water Volume/ft) x 3 (No. Vols) = 48.62 gals CALCULATED PURGE VOLUME

Total Purge Time: 27 min.

Recharge Rate:

Purge Rate: 1.5 gal./case vol.

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type:

Time	/	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1311	/	initial	8.12	14.7	Pre 0.32	1802	—	12	
1318	/	1.5	7.74	14.5	—	5161	—	40	
1322	/	3.0	7.59	14.7	—	8555	—	50	
1326	/	4.5	7.60	15.0	—	10260	—	77	
1330	/	6.0	7.59	15.1	—	10950	—	61	
1334	/	7.5	7.59	15.4	Post —	11260	—	43	
1338	/	9.0	7.59	15.5	0.42	11390	—	44	
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Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/13/06 / 1345

Purging Equipment: Pump - Type: Bailer - Type: Disposable Other:

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937GW39	6 HCL VOCs	CET	2038	
	1 NP Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. 900 | Well No.: 937 GW42

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DA | Sampled by: DA | Date: 3/14/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 28.28

Depth to Water (WL, ft. below TOC): 4.30

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22
10.5	4	1.805

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [ ] Pump \ Type 3" Sub
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 6'
[X] Near Bottom Depth (ft) 10'
[ ] Other

PURGE VOLUME CALCULATION

23.92 (Water Column Length) x 1.805 (Water Volume/ft) x 3 (No. Vols) = 129.53 gals CALCULATED PURGE VOLUME

Total Purge Time: 27 min.

Recharge Rate:

Purge Rate: ~5 gal/min

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type:

Time / Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1039 / 43.18	7.32	16.6	—	1240	—	6	
1048 / 86.36	7.27	17.3	—	1650	—	1	
1057 / 129.53	7.27	17.4	0.43	1720	—	1	
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Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/14/06 / 1103

Purging Equipment: Pump - Type: Bailer - Type: Disposable Other:

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937GW42	6 HCl VOAs	C+T	2042	
	1 NP Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BLDG 900's
Well No.: 937GW104
Project Number: 2843
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: SOOCH / PETE
Sampled by: SOOCH / PETE
Date: 3/13/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 15.00

Depth to Water (WL, ft. below TOC): 5.80

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 2" redi flo
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

9.2 (Water Column Length) x 0.9 (Water Volume/ft) x (3) 8.3 (No. Vols) = 25 gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate
Purge Rate ~2.5 gpm

25 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: ULTRAMETER, TURBIDIMETER

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments	(~~FP~~) DTW
1058	~~8.3~~ –	8.10	13.2	–	1419	–	13	clear	6.23
1100	8.3	7.36	13.9	–	1640	–	9	"	6.30
1103	17	7.42	14.3		2106	–	5	"	6.39
1106	25	7.80	14.4	not – 1.3	2314	–	4	"	6.40

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/13/06 / 1112

Purging Equipment: Pump - Type 2" redi-flo Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937GW104	1 X 1L amber	CTT	2036	
	6 X 40ml VOA			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BUDG 908'S
Well No.: 937GW105
Project Number: 2593
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: Soach / Pete
Sampled by: Soach / Pete
Date: 3/13/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 29.90

Depth to Water (WL, ft. below TOC): 6.55

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 2" redi flo
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

23.35 (Water Column Length) x 0.9 (Water Volume/ft) x (3) 21 (No. Vols) = 63 gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate
Purge Rate 4 gpm

63 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter, turbidimeter

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND µS/cm	ORP (mV)	Turbidity (NTU)	Comments
1446	—	7.12	16.4		2206		6	initial
1451	21	7.09	17.3		2115		3	clear
1456	42	7.10	17.2		2136		3	"
1501	63	7.15	17.3	post - 0.9	2155		3	"

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/13/06 / 1506

Purging Equipment: Pump - Type 2" redi-flo Bailer - Type Other

Sample Filtered: Yes / No (circled) Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937GW105	1 x 1L Amber	CAT	2036	
	6 x 40 ml VOA Vial			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	937GW105PB106 @ 1525
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BUDG 90'S
Well No.: 937GW106
Project Number: 2863
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: Sooch / Pete
Sampled by: Sooch / Pete
Date: 3/13/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 15.00
Depth to Water (WL, ft. below TOC): 8.90
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged
[X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow
[X] Normal
[ ] Modified (max 5 gpm)
[ ] Bailer \ Type
[X] Pump \ Type 2" redi flo
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

6.1 (Water Column Length) x 0.9 (Water Volume/ft) x (3) 5.5 (No. Vols) = 16.5 gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate
Purge Rate ~~2.5 gpm~~ slowed to 1 gpm

16.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter, turbidimeter

Time	/	Liters or Gallons	pH	Temp °C/F	DO (mg/L)	Sp. COND (~~mS/cm~~) MS	ORP (mV)	Turbidity (NTU)	Comments
1545	/	–	6.97	14.4	–	1380	–	3	clear
1546 1550		5.5	6.94	14.3	–	1330	–	3	"
1555	/	11	6.98	14.5	–	1361	–	2	"
1600	/	16.5	6.99	14.2	post -1.5	1328	–	3	"
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Comments
Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/13/06 / 1605

Purging Equipment: Pump - Type 2" redi flo Bailer - Type Other

Sample Filtered: Yes / No (No circled) Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937GW106	1x1L Amber	CLS	2036	
	6x40ml VOA			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: SWDG 900's
Well No.: 937Gw107
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: Sooch / PETE
Sampled by: Sooch / PETE
Date: 3/14/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 29.75

Depth to Water (WL, ft. below TOC): 9.65

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 2" sedi-flo
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

20.1 (Water Column Length) x 0.9 (Water Volume/ft) x (3) 18 (No. Vols) = 54 gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate
Purge Rate 3 gpm

54 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter, turbidimeter

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
930	—	7.17	16.9	—	1005	—	25	initial / ito Sooch
936	18	7.48	16.8	—	1007	—	6	clear
942	36	7.49	16.6	—	1031	—	3	"
948	54	7.50	16.7	post - 0.4	1016	—	3	"

Comments
Purge water storage/disposal [ ] Drummed onsite [X] Other on site tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/14/06 / 955

Purging Equipment: Pump - Type 2" sed. flo Bailer - Type Other

Sample Filtered: Yes / No (No circled) Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937Gw107	1x1L Amber	CET	2039	
	6x40ml VOA			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 900 | Well No.: 950 GW108

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: M. Toll | Sampled by: M. Toll | Date: 3/9/00

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 29.30

Depth to Water (WL, ft. below TOC): 6.31

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 2" E.S.
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 8'-19'
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

23.5 (Water Column Length) x 21.1 (Water Volume/ft) x 3 (No. Vols) = 63.3

64 gals CALCULATED PURGE VOLUME

64 gals ACTUAL PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter, Hach, YSI, Orion

Time	Liters or Gallons	pH	Temp (C) °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1030	—	7.43	15.5	—	2046	—	20	
1035	21.1	7.62	14.1	—	2043	—	11	
1040	42.2	7.69	15.8	—	2059	—	17	
1045	63.3	7.67	15.9	—	2028	—	12	
	—	—	14.7	~~0.815~~ 0.81	—	~~270.97~~	—	

Comments | Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 3/9/2000 / 1115

Purging Equipment: Pump - Type | Bailer - Type: Disp. | Other

Sample Filtered: Yes / No | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
950GW108	18 x 40ml	CHT		MS/MSD
950GW108	3x L			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
950GW108	DUP0309D1C2A @ 1120
950GW108	950GW108CL

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 900's
Well No.: 979GW109
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: Sooch/Pete
Sampled by: Sooch/Pete
Date: 3/14/09

WELL PURGING

PURGE VOLUME

Well casing diameter
[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 14.78
Depth to Water (WL, ft. below TOC): 5.62
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged
[X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow
[X] Normal
[ ] Modified (max 5 gpm)
[ ] Bailer \ Type
[X] Pump \ Type 2" redi-flo
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

9.16 (Water Column Length) x 0.9 (Water Volume/ft) x (3) 8.2 (No. Vols) = 24.6 gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate
Purge Rate 2 gpm

25 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type ultrameter, turbidimeter

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1020 / —	8.06	14.3	—	2281	—	35	initial
1024 / 8.2	8.05	14.0	—	2317	—	6	clear
1028 / 16.4	8.03	13.9	—	2235	—	3	"
1032 / 25	8.03	13.9	post-0.5	2310	—	2	"
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/							

Comments
Purge water storage/disposal [ ] Drummed onsite [X] Other on site tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 3/14/06 / 1038

Purging Equipment Pump - Type 2" redi flo Bailer - Type Other

Sample Filtered: Yes / (No) Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
979GW109	1 liter amber	TST	2039	
	6 x 40ml VOA			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BUD 900'3 | Well No.: 979GW110

Project Number: 2693 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: Scoch / Pete | Sampled by: Scoch / Pete | Date: 3/14/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 30.00

Depth to Water (WL, ft. below TOC): 5.22

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 2" redi flo
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

24.28 (Water Column Length) x 0.9 (Water Volume/ft) x (3) 22 (No. Vols) = 66 gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate 3 gpm

66 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter, turbidimeter

Time / Liters or Gallons	pH	Temp °C/°F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1049 / —	7.64	14.8	—	5655	—	21	initial
1056 / 22	7.76	15.2	—	6144	—	5	clear
1103 / 44	7.77	15.0	—	6218	—	4	"
1110 / 66	7.78	15.1	put - 0.4	6511	—	3	
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Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other waste tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/14/06 / 1115

Purging Equipment: Pump - Type 2" redi flo | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
979GW110	1X1L Amber	CAT	2039	
	6X40ml VOA			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BWB 900's
Well No.: 979 GW11R
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: Sooch / pete
Sampled by: Sooch / pete
Date: 3/13/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 37.22

Depth to Water (WL, ft. below TOC): 14.62

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 2" redi-flo
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

22.6 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 60 gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate
Purge Rate: 4 gpm

60 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: ultrameter, turbidimeter

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1145	—	6.72	15.7		2785		4	initial
1150	20	6.71	16.3		2707		3	clear
1155	40	6.73	16.5		2689		3	"
1200	60	6.73	16.8	post -0.1	2651		2	"

Comments
Purge water storage/disposal: [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/13/06 / 1205

Purging Equipment: Pump - Type 2" redi-flo Bailer - Type Other

Sample Filtered: Yes (No) Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
979GW11R	1x1L Amber	CAT	2036	
	6x40ml VOA			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BUDG 90's
Well No.: 979GW112
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: Soochi / pete
Sampled by: Soochi / pete
Date: 3/14/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 29.50

Depth to Water (WL, ft. below TOC): 14.72

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

14.78 (Water Column Length) x 0.9 (Water Volume/ft) x (3) 13.3 (No. Vols) = 39.9 gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate:

Purge Rate: 2.5 gpm

40 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: ultrameter, turbidimeter

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1401 / —	7.20	17.7	—	1961	—	27	initial
1406 / 13.3	7.14	17.1	—	1446	—	6	clear
1411 / 26.6	7.11	17.2	—	1348	—	4	"
1416 / 40.0	7.12	17.0	post -0.3	1341	—	3	"
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Comments:

Purge water storage/disposal: [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/14/06 / 1420

Purging Equipment: Pump - Type: 2" redi-flo Bailer - Type: Other:

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
979GW112	1 KU AMBER	CAT	2039	
	6 x 40 ml VOA			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	~~[illegible]~~ 18 1435
Rinsate	979GW112 RB116 @ 1430
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg 900's
Well No.: 979Gw113
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: Sooch/pete
Sampled by: Sooch/pete
Date: 3/14/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 14.79

Depth to Water (WL, ft. below TOC): 5.77

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 2" redi-flo
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

9.02 (Water Column Length) x 0.9 (Water Volume/ft) x (3) 8.1 (No. Vols) = 24.3 gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate
Purge Rate 2 gpm

24.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter, turbidimeter

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1141	—	7.87	14.6	—	4242	—	39	initial
1145	8.1	7.77	14.5	—	2658	—	6	clear
1149	16.2	7.71	14.5	—	2509	—	4	"
1153	24.5	7.71	14.8	post - 1.0	2422	—	3	"

Comments
Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/14/06 / 1158

Purging Equipment: Pump - Type 2" redi-flo Bailer - Type Other

Sample Filtered: Yes / No (No) Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
979Gw113	1 X 1L Amber	CTT	2039	
	6 x 40m VOA			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg 900's
Well No.: 979GW114
Project Number: 2843
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: Soach / pete
Sampled by: soach/pete
Date: 3/14/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC) : 28.68
Depth to Water (WL, ft. below TOC) : 5.54
Depth to free phase (FP, ft. below TOC) :

Number of borehole volumes to be purged
[X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD
[ ] Low Flow
[X] Normal
[ ] Modified (max 5 gpm)
[ ] Bailer \ Type
[X] Pump \ Type 2" redi flo
[ ] Other

PUMP INTAKE
[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

23.14 (Water Column Length) x 0.9 (Water Volume/ft) x (3) 21 (No. Vols) = 63 gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate
Purge Rate 3 gpm

65 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type ultrameter, turbidimeter

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1313	—	7.59	17.4	—	8502	—	32	initial
1320	21	7.65	17.0	—	8539	—	2	clear
1327	42	7.67	16.8	—	8807	—	3	"
1334	63	7.68	16.9	pot - 0.3	8775	—	3	"

Comments
Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 3/14/06 / 1340

Purging Equipment Pump - Type 2" redi-flo Bailer - Type Other

Sample Filtered: Yes / No (circled) Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
979GW114	1L Amber 6 x 40ml VOA	CTS	3039	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BUDG 9003 | Well No.: 979GW115

Project Number: 2493 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: Sooch / Pete | Sampled by: Sooch / Pete | Date: 3/13/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 15.00

Depth to Water (WL, ft. below TOC): 7.55

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 2" redi flo
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

7.45 (Water Column Length) x 0.9 (Water Volume/ft) x (3) 1 (No. Vols) = 2 gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate 2.5 gpm | gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter / turbidimeter

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1346	/	—	7.25	16.5		9300		3	initial
1349	/	7	7.14	15.8		4992		2	clear
1352	/	14	7.09	15.6		1731		2	"
1355	/	21	7.10	15.4		1689		4	"
1358	/	28	7.09	15.6	pot - 0.5	1655		2	"
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other on site tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 3/13/06 / 1405

Purging Equipment: Pump - Type 2" redi-flo | Bailer - Type | Other

Sample Filtered: Yes / No (circled) | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
979GW115	1X1L Amber	CAS	20316	
	6x40m VOA			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BUDK 900's
Well No.: 979GW116
Project Number: 2843
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: Sood/pete
Sampled by: Sood/pete
Date: 3/14/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 29.83
Depth to Water (WL, ft. below TOC): 7.47
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged
[X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD
[ ] Low Flow
[X] Normal
[ ] Modified (max 5 gpm)
[ ] Bailer \ Type
[X] Pump \ Type 2" redi flo
[ ] Other

PUMP INTAKE
[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

22.36 (Water Column Length) x 0.9 (Water Volume/ft) x (3) 20 (No. Vols) = 60 gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate
Purge Rate 4 gpm

60 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type Ultrameter, turbidimeter

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1450	—	7.33	17.2	—	4621	—	12	initial
1455	20	7.37	16.9	—	5445	—	3	clear
1500 ~~1500~~	40	7.38	17.0	—	5221	—	2	"
1505 ~~1505~~	60	7.40	17.0	post-0.3	5000	—	2	"

Comments
Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD
Date/Time Sampled 3/14/06 / 1510

Purging Equipment: Pump - Type 2" redi flo; Bailer - Type; Other
Sample Filtered: Yes / No (circled No)
Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
979GW116	1 1L amber	QT	2039	
	6x40 ml VOA			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
979GW116	DUP031406 1A @ 1530

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BUDG 900 S
Well No.: 979Gw117
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: Soach / Pete
Sampled by: Soach / Pete
Date: 3/13/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 45.00
Depth to Water (WL, ft. below TOC): 7.89
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged
~~[X] 3~~ [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow
[X] Normal
[X] Modified (max 5 gpm)
[ ] Bailer \ Type
[X] Pump \ Type 2" pump
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

~~37.11~~ ft x ~~0.9~~ ft x ____ = ____ gals CALCULATED PURGE VOLUME
Water Column Length x Water Volume/ft x No. Vols

Total Purge Time
Recharge Rate
Purge Rate 2 gpm

24 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: ultrameter, Turbidimeter

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1316	/	—	7.06	18.7		30.17		19	initial
1319	/	6	6.99	17.6		31.26		3	clear
1322	/	12	6.98	17.0		32.13		3	"
1325	/	18	6.95	17.2		31.48		2	"
1328	/	24	6.95	17.1	post - 0.2	31.64		2	"
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments
Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/13/06 / 1335

Purging Equipment: Pump - Type 2" Redi-Flo Bailer - Type ____ Other ____

Sample Filtered: Yes / No (circled: No) Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
979Gw117	1x1L Amb.	GEL	2036	
	6x40ml VOA HCl			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

LANDFILL 8
APPENDIX SECTION A-2
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2006
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

Landfill 8 is located in the southwestern portion of the Presidio (Figure 1) in the vicinity of the U.S. Public Health Services Hospital (PHSH). The site elevation (Figure A-2-1) is approximately 250 feet above PLLW in the northeast and approximately 190 feet above PLLW in the southwest (Montgomery Watson, 1996c). In 1874, the PHSH was established as a full-service U.S. Merchant Marine Hospital and laboratory. The U.S. Public Health Services took control of the facility in 1927 and operated the hospital until it was closed in November 1981 (Montgomery Watson, 1996c). Landfill 8 was used between the years of 1946 and 1973 to dispose of vegetative debris, miscellaneous building debris, and some garbage and clean fill (Woodward Clyde Consultants, 1990; USACE, 1990).

Groundwater samples have been collected from Landfill 8 monitoring wells since September 1994. Previous laboratory analyses of the groundwater samples included general chemistry, cyanide, metals, volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), organochlorine pesticides (OCPs), polychlorinated biphenyls (PCBs), and chlorinated herbicides. No PAHs, OCPs, PCBs, or chlorinated herbicides have been detected above laboratory reporting limits at Landfill 8 since monitoring began in September 1994. Summaries of previous dissolved oxygen, general chemistry, cyanide, PAH, OCP, PCB, chlorinated herbicide, VOC, and metals results can be found in Tables A-2-1 through A-2-3.

A reduction in sampling frequency for all Landfill 8 wells to annual was previously approved by the stakeholders; thus, sampling was only conducted during the First Quarter 2006, in accordance with the approved plan (Table 1A).

2.0 SITE DESCRIPTION AND GEOLOGY

Landfill 8 is a part of the Lobos Creek Groundwater Basin (Figure 1). Groundwater is found at approximately 10 to 50 feet bgs and flows to the southeast. Soils beneath Landfill 8 consist of unconsolidated Colma Formation sedimentary deposits of sand, silt, and clay. These deposits are underlain by Franciscan Formation bedrock (Montgomery Watson, 1996c).

3.0 PUBLIC HEALTH SERVICE HOSPITAL RECORD OF DECISION

In early 1995, the U.S. Army completed the Record of Decision (ROD) for the Former PHSH Area (PHSH ROD). The PHSH ROD addressed three remediation sites within the PHSH Area, including Landfill 8. The selected remedy was quarterly groundwater monitoring for five years to confirm that chemicals are not leaching from the fill material to the groundwater.

The quarterly monitoring program at Landfill 8 has met the requirements of the PHSH ROD. The *Five Year Review and Field Investigation Work Plan for Landfills 8 and 10* was finalized in October 2002. In order to evaluate remedial actions undertaken in accordance with the 1995 PHSH ROD, the Trust will determine whether a ROD amendment or an Explanation of Significant Differences will be required for future site remediation. Potential future remedial actions to be completed at Landfill 8 include construction of a permeable landfill cover or partial landfill removal. A landfill delineation study was completed at Landfill 8 in November 2002. Results of the study will be used in the selection of the final remedy for the site (URS, 2002).

The *Five Year Review and Final Investigation Report for Landfills 8 and 10* (FYR) was submitted to the regulatory agencies and RAB in January 2004. A Focused Feasibility Study (FFS) for Landfills 8 and 10 has been prepared. Additionally, the Trust is currently preparing a RAP and designing new remedial actions for the two landfill sites. The Draft RAP is scheduled to be completed in 2007.

4.0 GROUNDWATER MONITORING

Landfill 8 has five associated monitoring wells and two piezometers (Figures A-2-1 and A-2-2). Groundwater elevations were collected from all area wells and piezometers during the First and Second Quarters 2006, in accordance with Tables 1A and 1B. Groundwater samples were collected from the five Landfill 8 monitoring wells during the First Quarter 2006 and analyzed for the parameters described in Section 5.0.

4.1 Groundwater-Level Measurements and Interpretation

Groundwater elevation measurements were collected on 6 March and 22 May 2006 at the five Landfill 8 monitoring wells and two piezometers during the First and Second Quarters 2006. A summary of groundwater elevations is presented in Table A-2-4. Water level meters were calibrated on 6 March and 22 May and the calibration logs can be found in Appendix B. Groundwater elevation field forms are presented in Appendix C.

First Quarter 2006 groundwater elevations ranged from 175.69 to 225.12 feet above PLLW in monitoring wells LF08GW02B and LF08PZ01, respectively. Groundwater flow was determined to be in a southeasterly direction, which follows the general topographic trend. The groundwater gradient was calculated to be approximately 0.11 feet per foot. A groundwater elevation map showing the First Quarter 2006 groundwater contours and flow direction for Landfill 8 is

included as Figure A-2-1. Groundwater gradients and flow directions are consistent with previous findings at the site.

Second Quarter 2006 groundwater elevations ranged from 180.52 to 225.69 feet above PLLW in monitoring wells LF08GW02B and LF08PZ01, respectively. Groundwater flow was determined to be in a southeasterly direction, which follows the general topographic trend. The groundwater gradient was calculated to be approximately 0.10 feet per foot. A groundwater elevation map showing the Second Quarter 2006 groundwater contours and flow direction for Landfill 8 is included as Figure A-2-2. Groundwater gradients and flow directions are consistent with previous findings at the site.

4.2 Monitoring Well Purging and Sampling

The five Landfill 8 monitoring wells were purged and sampled on 16 or 17 March 2006 during the First Quarter 2006. Landfill 8 monitoring wells were purged and sampled using the methods shown in Table 1A and in accordance with procedures described in the FSP (Treadwell & Rollo, 2001a). Groundwater sampling was not proposed for the Landfill 8 monitoring wells during the Second Quarter 2006 (Table 1B).

Purge equipment, purging volumes, purge water parameters, and sampling equipment for each monitoring well are described in the purge records located at the conclusion of this Appendix A section. Purge water was stored for future disposal in one of two 2,800-gallon aboveground polyethylene storage tanks, which are located at the Central Magazine.

4.3 Groundwater Analytical Program

All groundwater samples collected were submitted to the project laboratory for the analyses proposed in Table 1A. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are shown in Table 5. Sample containers used for each well are described in the purge records located at the conclusion of this section.

QA/QC samples were collected as part of this program. Section 6.2 of the main report discusses the QA/QC sampling and analysis performed during the First Quarter 2006.

5.0 GROUNDWATER ANALYTICAL RESULTS

Groundwater samples were collected from the five Landfill 8 monitoring wells (LF08GW01, LF08GW02B, LF08GW03, LF08GW04, and LF08GW06) during First Quarter 2006. The monitoring wells were analyzed for general chemistry parameters, OCPs, PCBs, VOCs, PAHs, total sulfide, cyanide, and 23 dissolved metals, in accordance with the proposed sampling schedule (Table 1A). Current and historical analytical results are presented in Tables A-2-1 through A-2-3. In addition, groundwater from Landfill 8 monitoring wells was measured in the field for oxidation-reduction potential (ORP), pH, temperature, and dissolved oxygen prior to

sampling, as part of the low flow sampling procedure. Temperature, ORP and pH data can be found on the groundwater sampling forms associated with Landfill 8 monitoring wells.

5.1 Dissolved Oxygen

Dissolved oxygen measurement results are summarized in Table A-2-1. The concentrations of dissolved oxygen measured within Landfill 8 monitoring wells during the First Quarter 2006 are within the range of historical concentrations. Dissolved oxygen was measured with an in-line dissolved oxygen meter during the First Quarter 2006.

5.2 General Chemistry, Cyanide, and Sulfide Results

General chemistry, cyanide, and sulfide results are presented in Table A-2-1. Most general chemistry results from the First Quarter 2006 were within the range of previously detected concentrations within Landfill 8 Area monitoring wells.

The table below summarizes the general chemistry results that were outside the range of previous values for Landfill 8 wells, and provides the range and frequency of historical results (Table A-2-1). The total number of analyses may vary depending on the sampling frequency, the initial date of sampling, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
General Chemistry							
LF08GW01	Alkalinity, Total	36 / 36	128	192	--	220	mg/L
	Bicarbonate	36 / 36	128	187	--	220	mg/L
	Chloride	36 / 36	76.6 *	220	--	240	mg/L
LF08GW03	Bicarbonate	29 / 30	< 5	244	--	290	mg/L
LF08GW06	Chloride	12 / 12	169	262 *	140	--	mg/L
	Sulfate	12 / 12	80 *	145 *	78	--	mg/L

Qualified data in the table above is indicated with an asterisk (*).

The sample concentrations detected outside the range of previous values were only slightly higher or lower than previously detected results and can be attributed to natural concentration fluctuations that are not considered significant.

Sulfide results for Landfill 8 monitoring well samples collected during the First Quarter 2006 were rejected during data validation due to a MS/MSD percent recovery failure.

Cyanide was detected in the duplicate sample collected from LF08GW04 at a concentration of 0.03 mg/L, slightly above the detection limit of 0.01 mg/L. Cyanide was not detected in the LF08GW04 primary sample. Cyanide was previously detected in the Landfill 8 wells during the Second Quarter 2002 in monitoring well LF08GW06 (0.02 J- mg/L) and during the Third

Quarter 2003 in a QC sample collected from monitoring well LF08GW01 (0.005 J- mg/L). The J- concentration qualification indicates that the detected concentration was biased low during data validation due to a low surrogate recovery (Table 11). The surface water cleanup level for cyanide is 0.0052 mg/L as listed in Table 7-6 of the Cleanup Levels Document. This cleanup level for cyanide is applicable to Landfill 8 groundwater due to the potential for groundwater to discharge exfiltrate directly to surface water. Groundwater samples from Landfill 8 monitoring wells LF08GW04 (First Quarter 2006) and LF08GW06 (Third Quarter 2003) have exceeded the applicable cleanup level for cyanide. Cyanide has been below laboratory detection in most previous and subsequent sampling events conducted at Landfill 8. However, the laboratory reporting limit has consistently been at 0.01 mg/L, which exceeds the applicable cyanide cleanup level of 0.0052. Future detections of cyanide will continue to be monitored and trends identified as they become apparent.

5.3 PAHs, OCPs, PCBs, and Chlorinated Herbicides

No PAHs, OCPs, PCBs, or chlorinated herbicides, were detected in Landfill 8 groundwater samples collected during the First Quarter 2006. PAHs, OCPs, PCBs, or chlorinated herbicides have never been detected within Landfill 8 monitoring wells (Table A-2-2).

5.4 Dissolved Metals Results

Dissolved metals results are presented in Table A-2-3. Dissolved metals results during the First Quarter 2006 are generally within historical ranges. The table below summarizes the results of dissolved metal analyses that were outside the range of previous historical values for Landfill 8 samples (Table A-2-3). The total number of analyses may vary depending on the sampling frequency, the initial date of sampling, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Metals, Dissolved							
LF08GW01	Calcium	35 / 35	15,200	41,700	--	43,000	µg/L
	Sodium	36 / 36	36,900	140,000	--	150,000	µg/L
LF08GW06	Calcium	13 / 13	33,000	61,500	23,000	--	µg/L
	Magnesium	13 / 13	31,400	40,000	22,000 *	--	µg/L
	Sodium	13 / 13	150,000 *	206,000	140,000	--	µg/L
	Total Dissolved Solids	12 / 12	660	3,800	600	--	mg/L

Qualified data in the table above is indicated with an asterisk (*).

The new high and low concentrations are only slightly higher or lower than previously detected and can be attributed to natural concentration fluctuations that are not considered to be significant.

5.5 VOCs Results

VOCs were not detected in Landfill 8 groundwater samples collected during the First Quarter 2006 (Table A-2-2). Historically, tetrachloroethylene (PCE), dichloromethane and/or toluene have been detected sporadically at relatively low concentrations within Landfill 8 monitoring wells LF08GW01, LF08GW03 and LF08GW04. PCE was detected at monitoring well LF08GW01 (0.5 µg/L) during the First Quarter 2005, dichloromethane was detected at LF08GW01 (0.69 µg/L) during the First Quarter 2004, and toluene was detected at LF08GW01 (0.81 µg/L), LF08GW03 (0.72 µg/L), and LF08GW04 (1.0 µg/L) during the Third Quarter 1996.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Groundwater elevations, gradients, and flow directions during First and Second Quarters 2006 are consistent with historical values and interpretations. The five Landfill 8 monitoring wells were sampled and analyzed during the First Quarter 2006 (annual basis) according to the proposed sampling schedule. Most general chemistry results from the First Quarter 2006 were within the range of previously detected concentrations within Landfill 8 Area monitoring wells.

Cyanide was detected in the duplicate sample collected from LF08GW04 at a concentration of 0.03 mg/L, slightly above the detection limit of 0.01 mg/L. Cyanide has been detected only three times since groundwater monitoring began in the mid-1990s. Groundwater samples from Landfill 8 monitoring wells LF08GW04 (0.03 mg/L) from the First Quarter 2006 and LF08GW06 (0.02 J- mg/L) from the Third Quarter 2003 exceed the applicable cleanup level for cyanide of 0.0052 mg/L. Future detections of cyanide will continue to be monitored and trends identified as they become apparent.

Sulfide results for Landfill 8 monitoring well samples collected during the First Quarter 2006 were rejected during data validation due to a MS/MSD percent recovery failure.

No OCPs, PCBs, or chlorinated herbicides were detected in the Landfill 8 groundwater samples collected during First Quarter 2006, nor have they been historically detected above the laboratory reporting limits. VOCs were not detected in Landfill 8 groundwater samples collected during the First Quarter 2006.

No other significant trends or observations were identified at Landfill 8 during First Quarter 2006. The sampling frequency at Landfill 8 has been reduced to annual monitoring, until the Landfill 8 RAP is finalized and implemented. Sampling at Landfill 8 will then be performed per the Landfill 8 RAP requirements.

Table A-2-1
Results of General Chemistry, Cyanide and Sulfide Analyses
Landfill 8
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	SW9010/ SW9012/ E335.2	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	E376.1/ E376.2
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
LF08GW01	03/17/06	220	220	240	< 0.01	2.68	0.17	1.1	< 0.05	NA	41	< 0.04 R
	03/16/05	150	150	190	< 0.01	1.40	0.16	1.4	< 0.05	NA	38	< 0.04
	03/11/04	160	160	210	< 0.01 UJ	2.5	0.17	1.4	< 0.05	NA	40	< 0.04
DUP0311041A	03/11/04	160	160	210	< 0.01 UJ	--	0.17	1.4	< 0.05	NA	40	< 0.04
LF08GW01CL	03/11/04	160	160	200	< 0.005	--	0.12	1.4	< 0.05	1.4	37	< 0.1
	08/20/03	140	140	190	< 0.01	2.89	0.17	1.3	< 0.05	NA	38	< 0.04
DUP0820031A	08/20/03	160	160	190	< 0.01	--	0.17	1.4	< 0.05	NA	38	< 0.04
LF08GW01CL	08/20/03	150	150	190	0.005 J-	--	0.14 J+	1.6 J-	< 0.05	1.6 J-	34	< 0.1
	03/13/03	180	180	180	< 0.01	2.15	0.11	1.5	< 0.05	NA	35	< 0.04
	08/27/02	140 J-	140 J-	220	< 0.01	1.85	0.31	0.94	< 0.05	NA	39	< 0.04
DUP0827021A	08/27/02	140 J-	140 J-	210	< 0.01	--	0.32	0.95	< 0.05	NA	39	< 0.04
LF08GW01CL	08/27/02	130	130	210	< 0.01 U	--	< 1	1.1 [3]	< 1	NA	40	< 1 U
	03/12/02	160	160	160	< 0.01	2.75	< 0.1 U	1.6	< 0.05	NA	36	< 0.04
	09/04/01	140	140	200	< 0.01	4.47	0.28	0.88	< 0.05	NA	42	< 0.04
	05/16/01	140	140	170	< 0.01	4.06	0.19	2.3	< 0.05	NA	39	< 0.04
	06/15/00	192	146	173	< 0.01	1.48	0.307	NA	NA	775	51.4	< 0.05
	01/12/00	157	157	166	< 0.01	1.49	0.263	NA	NA	0.827	50.3	< 0.05
	08/30/99	174	174	133	< 0.01	4.86	0.303	NA	NA	0.64	52.2	< 0.05
	02/24/99	165	165	119	< 0.01	1.65	0.247	NA	NA	1.28	52.3	< 0.05
	08/19/98	158	158	109	< 0.01	1.62	0.22	NA	NA	0.956	58.2	< 0.05
	06/02/98	165	165	111	< 0.01	1.3	0.35	NA	NA	1.27	63.9	< 0.05
	03/09/98	163	163	99.9	< 0.01	1.71	0.269	NA	NA	1.34	63.7	< 0.05
	12/11/97	163	163	90	< 0.01	1.07	0.8	NA	NA	1.36	46.8	< 0.05
	09/10/97	158	158	107	< 0.01	0.75	0.31	NA	NA	1.27	61	< 0.05
	06/25/97	163	163	101	< 0.01	2.03	< 0.1	NA	NA	1.65	65.7	< 0.05
	03/27/97	161	161	96.9	< 0.01	0.99	0.344	NA	NA	2	61.1	< 0.05
	12/20/96	172	172	76.9	< 0.01	NM	0.222	NA	NA	2.2	40.9	< 0.05
	09/11/96	157	157	86.5	< 0.01	NM	0.23	NA	NA	3	47.4	< 0.05
	06/03/96	128	128	81.8	< 0.01	NM	0.15	NA	NA	1.6 (J33)	46.9	< 0.05
	03/15/96	164	164	78.8	< 0.01	NM	0.22	NA	NA	2.8	40.2	< 0.05
	11/28/95	155	155	78	< 0.01	NM	0.23	NA	NA	2.5	40.8	< 0.05
	09/19/95	150	150	76.7	< 0.01	NM	0.29	NA	NA	2.6	43.1	< 0.05
	06/05/95	185	185	76.6	< 0.01	NM	0.34	NA	NA	2.9	40.1	< 0.05
	03/08/95	174	174	78.5	< 0.01	NM	0.39	NA	NA	2.9	41.2	< 0.05

Table A-2-1
Results of General Chemistry, Cyanide and Sulfide Analyses
Landfill 8
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	SW9010/ SW9012/ E335.2	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	E376.1/ E376.2
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
LF08GW01	12/15/94	169	169	78.2	< 0.01	NM	0.23	NA	NA	2.8	42	< 0.05
	09/23/94	187	187	81.2	< 0.01	NM	0.24	NA	NA	2.9	42.7	< 0.05
LF08GW02B	03/16/06	150	150	44	< 0.01	5.65	< 0.1	4.5	< 0.05	NA	29	< 0.04 R
	03/16/05	150	150	49	< 0.01	4.50	< 0.1	3.6	< 0.05	NA	32	< 0.04
	03/11/04	150	150	50	< 0.01 UJ	4.2	< 0.1	4	< 0.05	NA	33	< 0.04
	08/20/03	190	190	41	< 0.01	5.91	0.11	4.8	< 0.05	NA	28	< 0.04
	03/13/03	180	180	44	< 0.01	5.66	< 0.1	4.6	< 0.05	NA	33	< 0.04
	08/27/02	150 J-	150 J-	42	< 0.01	4.05	0.22	4.9	< 0.05	NA	29	< 0.04
	03/12/02	130	130	48	< 0.01	6.3	< 0.1 U	4.3	< 0.05	NA	35	< 0.04
	09/05/01	150	150	51	< 0.01	9.01	0.16	3.9	< 0.05	NA	32	< 0.04
	05/16/01	150	150	49	< 0.01 UJ	7.53	0.16	3.7	< 0.05	NA	32	< 0.04
	06/15/00	139	139	40	< 0.01	0.53	0.114	NA	NA	697	28.8	< 0.05
	01/12/00	139	139	49.6	< 0.01	6.63	0.119	NA	NA	4	28	< 0.05
	08/31/99	142	142	42.3	< 0.01	7.64	0.14	NA	NA	4.6	28.7	< 0.05
	02/25/99	146	146	49.5	< 0.01	6.02	0.126	NA	NA	4.1	29.7	< 0.05
	08/20/98	140	140	39.5	< 0.01	6.04	0.15	NA	NA	5.3	32.1	< 0.05
	06/03/98	143	143	35.4	< 0.01	5.14	0.18	NA	NA	6.1	41.9	< 0.05
	03/10/98	2,870	< 5 (R20)	42.3 (J20)	< 0.01	6.41	0.103 (J20)	NA	NA	4.8	44.6 (J20)	< 0.05
	12/15/97	129	129	43.5	< 0.01	5.54	0.154	NA	NA	3.1	33.5	< 0.05
	09/11/97	144	144	45.1	< 0.01	4.6	0.149	NA	NA	4.1	36.2	< 0.05
	06/24/97	138	138	40.8	< 0.01	5.38	< 0.1	NA	NA	5.7	45	< 0.05
	03/25/97	135	135	42.1	< 0.01	5.29	0.13	NA	NA	5.3	46.2	< 0.05
	12/23/96	144	144	44.6	< 0.01	NM	0.138	NA	NA	4.3	37.7	< 0.05
	09/11/96	135	135	53.5	< 0.01	NM	0.11	NA	NA	4.6	42.2	< 0.05
	06/03/96	128	128	40.6	< 0.01	NM	0.12	NA	NA	6.8	51.7	< 0.05
	03/15/96	108	108	46.3	< 0.01	NM	0.12	NA	NA	4	38	< 0.05
	11/28/95	103	103	50.1	< 0.01	NM	0.14	NA	NA	4.2	35.9	< 0.05
	09/19/95	131	131	51.1	< 0.01	NM	0.11	NA	NA	3.9	37	< 0.05
	06/06/95	124	114	51.2	< 0.01	NM	0.14	NA	NA	4.6	35.3	< 0.05
	03/23/95	47	< 5	53.2	< 0.01	NM	0.17	NA	NA	4.6	28.9	< 0.05
	12/16/94	67	< 5	61.3	< 0.01	NM	0.12	NA	NA	3	30.9	< 0.05
	09/26/94	118	99.3	67.8	< 0.01	NM	0.11	NA	NA	2.9	34.3	< 0.05

Table A-2-1
Results of General Chemistry, Cyanide and Sulfide Analyses
Landfill 8
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	SW9010/ SW9012/ E335.2	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	E376.1/ E376.2
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
LF08GW03	03/16/06	290	290	72	< 0.01	1.49	< 0.1	4.4	< 0.05	NA	49	< 0.04 R
	03/16/05	220	220	65	< 0.01	1.00	< 0.1	5.6	< 0.05	NA	51	< 0.04
	03/11/04	230	230	70	< 0.01 UJ	0.9	< 0.1	5	< 0.05	NA	49	< 0.04
	08/20/03	220	220	68	< 0.01	1.1	< 0.1	4.3	< 0.05	NA	44	< 0.04
	03/13/03	210	210	68	< 0.01	0.9	< 0.1	4.7	< 0.05	NA	40	< 0.04
	08/27/02	230 J-	230 J-	71	< 0.01	0.78	0.24	4.6	< 0.05	NA	43	< 0.04
	03/12/02	240	240	70	< 0.01	0.96	< 0.1 U	5.7	< 0.05	NA	44	< 0.04
	09/04/01	240	240	71	< 0.01	1.39	0.13	4.5	< 0.05	NA	44	< 0.04
	05/16/01	230	230	68	< 0.01 UJ	2.43	0.12	4.5	< 0.05	NA	46	< 0.04
	06/15/00	234	234	70.1	< 0.01	0.2	0.113	NA	NA	587	42.4	< 0.05
	01/12/00	239	239	73	< 0.01	2.9	NA	NA	NA	4.3	45	< 0.05
	08/31/99	244	244	69.5	< 0.01	3.64	0.147	NA	NA	3.9	43.1	< 0.05
	02/25/99	242	242	73.6	< 0.01	3.25	0.105	NA	NA	4.4	45.1	< 0.05
	08/20/98	237	237	69.8	< 0.01	3.15	NA	NA	NA	4.4	43.7	< 0.05
	06/03/98	241	241	66.3	< 0.01	2.3	0.12	NA	NA	4.6	43.3	< 0.05
	03/10/98	2,810	< 5 (R20)	64.9 (J20)	< 0.01	3.94	< 0.10 (U20)	NA	NA	5.1	44.2 (J20)	< 0.05
	12/15/97	241	241	67.7	< 0.01	2.48	0.11	NA	NA	4	39.2	< 0.05
	09/11/97	240	240	69.4	< 0.01	2.17	0.112	NA	NA	3.8	42.6	< 0.05
	06/24/97	242	242	69	< 0.01	1.77	NA	NA	NA	4.4	42.8	< 0.05
	03/26/97	241	241	65.6	< 0.01	2	NA	NA	NA	5.1	42.6	< 0.05
	12/20/96	238	238	68	< 0.01	NM	0.151	NA	NA	4.2	41.8	< 0.05
	09/10/96	236	236	71.9	< 0.01	NM	0.12	NA	NA	4.5	43.4	0.086
	03/18/96	233	233	67.2	< 0.01	NM	NA	NA	NA	5.1	44.3	< 0.05
	11/29/95	234	234	71.1	< 0.01	NM	0.12	NA	NA	4.5	39.9	< 0.05
	09/18/95	220	220	68.4	< 0.01	NM	0.1	NA	NA	4.6	44.2	< 0.05
	06/07/95	231	231	61	< 0.01	NM	0.1	NA	NA	6.3	48.4	< 0.05
	03/24/95	224	224	67.2	< 0.01	NM	0.11	NA	NA	6.1	47.4	< 0.05
	12/14/94	234	234	75	< 0.01	NM	0.12	NA	NA	4.2	40.6	< 0.05
	09/26/94	227	227	80.1	< 0.01	NM	0.1	NA	NA	4.2	42.5	< 0.05

Table A-2-1
Results of General Chemistry, Cyanide and Sulfide Analyses
Landfill 8
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	SW9010/ SW9012/ E335.2	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	E376.1/ E376.2
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
LF08GW04	03/16/06	130	130	30	< 0.01	2.43	< 0.1	1.6	< 0.05	NA	17	< 0.04 R
DUP0316064A	03/16/06	86	86	30	0.03	--	< 0.1	1.5	< 0.05	NA	17	< 0.04 R
	03/17/05	90	90	29	< 0.01	2.20	< 0.1	2.3	< 0.05	NA	14	< 0.04
DUP0317052A	03/17/05	78	78	29	< 0.01	--	< 0.1	2.3	< 0.05	NA	14	< 0.04
LF08GW04CL	03/17/05	79	79	28	< 0.01 U	--	< 0.3 U	2.44	< 0.1 U	NA	13.7	< 0.04 U
	03/11/04	110	110	24	< 0.01 UJ	2	< 0.1	1.8	< 0.05	NA	18	< 0.04
	08/20/03	130	130	33	< 0.01	4.79	< 0.1	6	< 0.05	NA	33	< 0.04
	03/13/03	94	94	34	< 0.01	1.78	< 0.1	0.58	< 0.05	NA	11	< 0.04
DUP0313031A	03/13/03	82	82	34	< 0.01	--	< 0.1	0.59	< 0.05	NA	11	< 0.04
LF08GW04CL	03/13/03	56	56	35	< 0.005	--	< 0.1	0.58	< 0.05 UJ	0.58	10	< 0.1
	08/28/02	63	63	21	< 0.01	3	< 0.1	9	< 0.05	NA	150	< 0.04
	03/14/02	94	94	19	< 0.01 UJ	2	0.044 J	2.8	< 0.05	NA	11	< 0.04
	09/04/01	66	66	15	< 0.01	5.4	0.056 J	13	< 0.05	NA	100	< 0.04
DUP0904013A	09/04/01	68	68	15	< 0.01	--	0.06 J	13	< 0.05	NA	100	< 0.04
LF08GW04CL	09/04/01	NA	62	14	< 0.01	--	< 1	13 [3]	< 1	NA	100	< 1
	05/16/01	73	73	17	< 0.01 UJ	3.55	< 0.1	2.9	< 0.05	NA	15	< 0.04
	05/16/01	70	70	16	< 0.01	NM	< 1	2.7 [3]	< 1	NA	14	< 1
	06/19/00	58	58	10.6	< 0.01	0.18	< 0.1	NA	NA	799	5.33	< 0.05
	01/12/00	130	130	33.3	< 0.01	4.94	< 0.1	NA	NA	6.6	29.8	< 0.05
	08/31/99	111	111	36	< 0.01	2.51	< 0.1	NA	NA	4.3	25.5	< 0.05
	02/24/99	160	160	26.5	< 0.01	0.52	< 0.1	NA	NA	2.2	18	< 0.05
	08/19/98	85	84.8	38	< 0.01	4.49	< 0.1	NA	NA	0.56	19.6	< 0.05
	06/02/98	68	68.2	29.6	< 0.01	0.46 (J35)	< 0.1	NA	NA	0.26	13.5	< 0.05
	03/09/98	60	59.8	13	< 0.01	4.25	< 0.1	NA	NA	1.4	11.2	< 0.05
	12/11/97	183	183	14.7	< 0.01	6.57	< 0.1	NA	NA	7.2	121	< 0.05
	09/10/97	74	74.1	23.6	< 0.01	4.36	< 0.1	NA	NA	6.9	82.9	< 0.05
	06/23/97	85	84.8	35.9	< 0.01	3.32	< 0.1	NA	NA	2.1	23.4	< 0.05
	03/24/97	70	70.3	18	< 0.01	1.3	< 0.1	NA	NA	0.54	13.1	< 0.05
	12/19/96	128	128	20.2	< 0.01	NM	< 0.1	NA	NA	5.1	26.8	< 0.05
	09/10/96	89	89	36.4	< 0.01	NM	< 0.1	NA	NA	4.6	26.3	< 0.05
	03/18/96	83	83	21.6	< 0.01	NM	< 0.1	NA	NA	1.8	15.8	< 0.05
	11/29/95	72	71.5	18.7	< 0.01	NM	< 0.1	NA	NA	3.4	39.5	< 0.05
	09/20/95	79	78.5	22.4	< 0.01	NM	< 0.1	NA	NA	3	32.1	< 0.05

Table A-2-1
Results of General Chemistry, Cyanide and Sulfide Analyses
Landfill 8
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	SW9010/ SW9012/ E335.2	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	E376.1/ E376.2
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
LF08GW04	06/07/95	60	60	29.1	< 0.01	NM	< 0.1	NA	NA	0.14	20.1	< 0.05
	03/23/95	76	76	22.1	< 0.01	NM	< 0.1	NA	NA	0.4	15.9	< 0.05
	12/16/94	153	153	9.6	< 0.01	NM	< 0.1	NA	NA	9.9	49.2	< 0.05
	09/23/94	107	107	7.2	< 0.01	NM	< 0.1	NA	NA	5	72	< 0.05
LF08GW06	03/17/06	220	220	140	< 0.01	6.85	0.24	1.1	< 0.05	NA	78	< 0.04 R
	03/16/05	220	220	220	< 0.01	5.40	0.2	1	< 0.05	NA	98	0.07
	03/11/04	190	190	250	< 0.01 UJ	4.1	0.23	1.2	< 0.05	NA	100	< 0.04
	08/20/03	NA	NA	NA	NA	5.4	NA	NA	NA	NA	NA	NA
	06/10/03	150	150	240	< 0.01	5.77	< 0.1	1.2	< 0.05	NA	92	< 0.04 UJ
	03/13/03	170	170	240	< 0.01	5.79	0.16	1.2	< 0.05	NA	84	< 0.04
	06/05/02	140	140	260	0.02 J-	4.8	0.22	1.2	< 0.05	NA	110	0.08
	03/12/02	160	160	250	< 0.01	5.12	< 0.1 U	1.5	< 0.05	NA	120	< 0.04
	05/10/01	160	160	240	< 0.01	7.57	0.33	1.3	< 0.05	NA	100	< 0.04
	05/21/99	175	175	221	< 0.01	9.5 (J35)	0.30	NA	NA	1.5	145	< 0.05
	02/25/99	263	263	181	< 0.01	8.84	0.33	NA	NA	1.8	102	< 0.05
	12/14/98	NA	NA	NA	< 0.01	4.62 (J35)	NA	NA	NA	NA	NA	< 0.05
	06/02/98	NA	NA	NA	NA	5.44	NA	NA	NA	NA	NA	< 0.05
	03/10/98	3,000	< 5 (R20)	169 (J20)	NA	5.21	0.34 (J20)	NA	NA	2.33	125 (J20)	< 0.05
	09/10/97	NA	NA	NA	< 0.01	1.93	NA	NA	NA	NA	NA	< 0.05
	03/27/97	262	262	262	< 0.01	4.79	0.39	NA	NA	1.2	80	< 0.05

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Total dissolved solids analysis was mistakenly not marked on the chain-of-custody by the field team and was therefore not analyzed by the laboratory.
3 - The QC laboratory nitrate results shown have been converted to nitrate as nitrogen (nitrate-N) as other laboratory results are reported. The QC laboratory reported nitrate as NO_3 concentrations (nitrate-NO_3) which are 4.43 times higher than nitrate-N concentrations. Section 6.2.1.2 in the main report of the *Draft Semi-Annual Groundwater Monitoring Report, First and Second Quarters 2003, Presidio-Wide Quarterly Groundwater Monitoring Program* discusses this issue (Treadwell & Rollo, 2003e).
mg/L - milligrams per liter
NA - not analyzed
NM - not measured
"--" dissolved oxygen measurements were not taken for duplicate and quality control samples.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-2-2
Results of PAH, OCP, PCB, Chlorinated Herbicide, and VOC Analyses
Landfill 8
Presidio of San Francisco, California

Well Name	Sample Date	All PAHs	All OCPs and PCBs	All Chlorinated Herbicides	VOCs				
					Dichloro-methane	MTBE	PCE	Toluene	All Other VOCs
	Analytical Method[1]	SW8310	SW8081/ SW8081A/ SW8082	SW8151/ SW8151A	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
LF08GW01	03/17/06	ND	ND	NA	< 4	< 0.5	< 0.5	< 0.5	ND
	03/16/05	ND	ND	ND	< 4	< 0.5	0.5	< 0.5	ND
	03/11/04	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
DUP0311041A	03/11/04	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
LF08GW01CL	03/11/04	ND	ND	ND	0.69	< 0.5	< 0.5	< 0.5	ND
	08/20/03	ND	ND	NA	< 4	< 0.5	< 0.5	< 0.5	ND
DUP0820031A	08/20/03	ND	ND	NA	< 4	< 0.5	< 0.5	< 0.5	ND
LF08GW01CL	08/20/03	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/13/03	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	08/27/02	NA	NA	NA	NA	NA	NA	NA	NA
DUP0827021A	08/27/02	NA	NA	NA	NA	NA	NA	NA	NA
LF08GW01CL	08/27/02	NA	NA	NA	NA	NA	NA	NA	NA
	03/12/02	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	09/04/01	NA	NA	NA	NA	NA	NA	NA	NA
	05/16/01	ND	ND	ND	< 5	< 0.5	< 0.5	< 0.5	ND
	02/24/99	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	03/09/98	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	03/27/97	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	12/20/96	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	09/11/96	ND	ND	ND	< 4.5	NA	< 0.5	0.81	ND
	06/03/96	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	03/15/96	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	11/28/95	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	09/19/95	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	06/05/95	ND	ND	ND	< 5	NA	< 5	< 5	ND
	03/08/95	ND	ND	ND	< 5	NA	< 5	< 5	ND
	12/15/94	ND	ND	ND	< 5	NA	< 5	< 5	ND
	09/23/94	ND	ND	ND	< 5	NA	< 5	< 5	ND
LF08GW02B	03/16/06	ND	ND	NA	< 4	< 0.5	< 0.5	< 0.5	ND
	03/16/05	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	03/11/04	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	08/20/03	ND	ND	NA	< 4	< 0.5	< 0.5	< 0.5	ND
	03/13/03	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	08/27/02	NA	NA	NA	NA	NA	NA	NA	NA
	03/12/02	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	09/05/01	NA	NA	NA	NA	NA	NA	NA	NA
	05/16/01	ND	ND	ND	< 5	< 0.5	< 0.5	< 0.5	ND
	02/25/99	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	03/10/98	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	03/25/97	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	12/23/96	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	09/11/96	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	06/03/96	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	03/15/96	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	11/28/95	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND

Table A-2-2
Results of PAH, OCP, PCB, Chlorinated Herbicide, and VOC Analyses
Landfill 8
Presidio of San Francisco, California

Well Name	Sample Date	All PAHs	All OCPs and PCBs	All Chlorinated Herbicides	VOCs				
					Dichloro-methane	MTBE	PCE	Toluene	All Other VOCs
	Analytical Method[1]	SW8310	SW8081/ SW8081A/ SW8082	SW8151/ SW8151A	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
LF08GW02B	09/19/95	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	06/06/95	ND	ND	ND	< 5	NA	< 5	< 5	ND
	03/23/95	ND	ND	ND	< 5	NA	< 5	< 5	ND
	12/16/94	ND	ND	ND	< 5	NA	< 5	< 5	ND
	09/26/94	ND	ND	ND	< 5	NA	< 5	< 5	ND
LF08GW03	03/16/06	ND	ND	NA	< 4	< 0.5	< 0.5	< 0.5	ND
	03/16/05	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	03/11/04	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	08/20/03	ND	ND	NA	< 4	< 0.5	< 0.5	< 0.5	ND
	03/13/03	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	08/27/02	NA	NA	NA	NA	NA	NA	NA	NA
	03/12/02	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	09/04/01	NA	NA	NA	NA	NA	NA	NA	NA
	05/16/01	ND	ND	ND	< 5	< 0.5	< 0.5	< 0.5	ND
	02/25/99	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	03/10/98	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	03/26/97	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	12/20/96	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	09/10/96	ND	ND	ND	< 4.5	NA	< 0.5	0.72	ND
	03/18/96	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	11/29/95	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	09/18/95	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	06/07/95	ND	ND	ND	< 5	NA	< 5	< 5	ND
	03/24/95	ND	ND	ND	< 5	NA	< 5	< 5	ND
	12/14/94	ND	ND	ND	< 5	NA	< 5	< 5	ND
	09/26/94	ND	ND	ND	< 5	NA	< 5	< 5	ND
LF08GW04	03/16/06	ND	ND	NA	< 4	< 0.5	< 0.5	< 0.5	ND
DUP0316064A	03/16/06	ND	ND	NA	< 4	< 0.5	< 0.5	< 0.5	ND
	03/17/05	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
DUP0317052A	03/17/05	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
LF08GW04CL	03/17/05	ND	ND	ND	< 4.5 U	< 0.5 U	< 0.5 U	< 0.5 U	ND
	03/11/04	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	08/20/03	ND	ND	NA	< 4	< 0.5	< 0.5	< 0.5	ND
	03/13/03	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
DUP0313031A	03/13/03	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
LF08GW04CL	03/13/03	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/28/02	NA	NA	NA	NA	NA	NA	NA	NA
	03/14/02	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	09/04/01	NA	NA	NA	NA	NA	NA	NA	NA
DUP0904013A	09/04/01	NA	NA	NA	NA	NA	NA	NA	NA
LF08GW04CL	09/04/01	NA	NA	NA	NA	NA	NA	NA	NA
	05/16/01	ND	ND	ND	< 5	< 0.5	< 0.5	< 0.5	ND
LF08GW04CL	05/16/01	ND	ND	ND	< 5	< 5	< 1	< 1	ND
	02/24/99	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	03/09/98	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND

Table A-2-2
Results of PAH, OCP, PCB, Chlorinated Herbicide, and VOC Analyses
Landfill 8
Presidio of San Francisco, California

Well Name	Sample Date	All PAHs	All OCPs and PCBs	All Chlorinated Herbicides	VOCs				
					Dichloro-methane	MTBE	PCE	Toluene	All Other VOCs
	Analytical Method[1]	SW8310	SW8081/ SW8081A/ SW8082	SW8151/ SW8151A	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
LF08GW04	03/24/97	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	12/19/96	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	09/10/96	ND	ND	ND	< 4.5	NA	< 0.5	1	ND
	03/18/96	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	11/29/95	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	09/20/95	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	06/07/95	ND	ND	ND	< 5	NA	< 5	< 5	ND
	03/23/95	ND	ND	ND	< 5	NA	< 5	< 5	ND
	12/16/94	ND	ND	ND	< 5	NA	< 5	< 5	ND
	09/23/94	ND	ND	ND	< 5	NA	< 5	< 5	ND
LF08GW06	03/17/06	ND	ND	NA	< 4	< 0.5	< 0.5	< 0.5	ND
	03/16/05	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	03/11/04	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	08/20/03	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	06/10/03	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	03/13/03	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	06/05/02	ND	ND	NA	< 4 UJ	< 0.5	< 0.5	< 0.5	ND
	03/12/02	ND	ND	ND	< 4	< 0.5	< 0.5	< 0.5	ND
	05/10/01	ND	ND	ND	< 5	< 0.5	< 0.5 UJ	< 0.5 UJ	ND
	05/21/99	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	02/25/99	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	12/14/98	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	03/10/98	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND
	03/27/97	ND	ND	ND	< 4.5	NA	< 0.5	< 0.5	ND

Notes
1 The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
µg/L - micrograms per liter
NA - not analyzed
ND - not detected
PAHs - polycyclic aromatic hydrocarbons
OCPs - organochlorine pesticides
PCE - tetrachloroethylene
PCBs - polychlorinated biphenyls
VOC - volatile organic compound
MTBE - methyl tert-butyl ether
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-2-3
Results of Dissolved Metals Analyses
Landfill 8
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
LF08GW01	03/17/06	< 100	< 1	< 5	310	< 2	< 1	43,000	< 10	< 10	< 1	< 100	< 3	28,000 J	< 10	< 0.2	< 20	1,700 J-	< 5	< 1	150,000	< 1	< 10	< 20	790
	03/15/05	< 100	< 1	< 5	240	< 2	< 1	34,000	< 10	< 10	< 1	< 100	< 3	29,000	< 10	< 0.2	< 20	1,300	< 5	< 1	130,000	< 1	< 10	< 20	560
	03/11/04	< 100	< 1	< 5	250	< 2	< 1	35,000	< 10	< 10	< 1	120	< 3	27,000	18	< 0.2	< 20	1,300	< 5	< 1 UJ	120,000	< 1	< 10	< 20	470
DUP0311041A	03/11/04	< 100	< 1	< 5	260	< 2	< 1	37,000	< 10	< 10	< 1	120	< 3	28,000	17	< 0.2	< 20	1,300	< 5	< 1 UJ	130,000	< 1	< 10	< 20	520
LF08GW01CL	03/11/04	< 100	< 5	< 5	240	< 1	< 1	35,000	< 10	< 7	< 10	< 500	< 3	27,000	16	< 0.2	< 10	1,300	< 5	< 1	120,000	< 2	< 10	< 20	530
	08/20/03	< 100	< 1	< 5	230	< 2	< 1	27,000	< 10	< 10	< 1	110	< 3	26,000	15	< 0.2	< 20	1,200	< 5	< 1 UJ	120,000	< 1	< 10	< 20 UJ	590
DUP0820031A	08/20/03	< 100	< 1	< 5	220	< 2	< 1	27,000	< 10	< 10	< 1	220	< 3	26,000	16	< 0.2	< 20	1,300	< 5	< 1 UJ	120,000	< 1	< 10	< 20 UJ	600
LF08GW01CL	08/20/03	1,200 J+	< 5	< 5	240	< 1	< 1	28,000	< 10	< 7	< 10	< 500 UJ	< 3	26,000	18	< 0.2	12	1,600	< 5	< 1	130,000	< 2	< 10	< 20	620 J
	03/13/03	< 100	< 1	< 1	210	< 1	< 1	25,000	3.6	< 1	< 1	< 100	< 3	23,000	19	< 0.2	13	1,400	< 5	< 1 UJ	120,000 J-	< 1	< 10	< 10	540
	08/27/02	< 100	< 1	< 1	540	< 1	< 1	30,000	5.3 J	< 1	< 1	< 100	< 3	26,000	< 10	< 0.2	23	1,600	< 5	< 1 UJ	140,000	< 1	< 10	140	520
DUP0827021A	08/27/02	< 100	< 1	< 1	270	< 1	< 1	29,000	5.1 J	< 1	< 1	< 100	< 3	26,000	< 10	< 0.2	22	1,500	< 5	< 1 UJ	140,000	< 1	< 10	19	580
LF08GW01CL	08/27/02	< 200	0.3 B	< 2	330	< 1	< 1	29,000	< 0.92 J,U	0.3 B	< 0.056 BJ,U	67 J	< 5	24,000	5.4	< 0.2	24	1,600	< 5	< 1	130,000	< 1	1.3 J	47	550 J
	03/12/02	< 100	< 1	< 1	430	< 1	< 1	28,000	4.9	< 1	1.1	< 100	< 3	25,000	< 10	< 0.2	16	1,800	< 5	< 1 UJ	130,000	< 1	< 10	140	490
	09/04/01	< 100	1.9	< 1	600 J+	< 1	< 1	31,000	8.8	< 1	1.2	200	< 3	26,000	14	< 0.2	59 J	1,400	< 5	< 1 UJ	140,000	< 1	< 10	160	NA [2]
	05/16/01	< 100	1.8	< 1	670	< 1	< 1	< 500 R	9.7 J	< 1	1.1	300	< 3	24,000	20	< 0.2	71	1,700 J	< 5	< 1	130,000	< 1	< 10	180	530
	06/15/00	< 100	< 5	< 5	153	< 2	< 2	32,600	< 10 (U1)	< 10	< 10	< 100 (U1)	< 3	21,500	46.4	< 0.2	167	< 5,000	< 5	< 2	139,000	< 2	< 10	< 20	826
	01/12/00	< 100	< 5	< 5	167	< 2	< 2	26,900	< 10	< 10	< 10	130	< 3	19,800	10.8	< 0.2	164	< 5,000	< 5	< 2	127,000	< 2	< 10	< 20	532
	08/30/99	< 100	< 5	< 5	156	< 2	< 2	25,200	< 10	< 10	< 10	< 100	< 3	15,700	< 10	NA	75.5	< 5,000	< 5	< 2	136,000	< 2	< 10	< 20	501
	02/24/99	< 100	< 5	< 5	158	< 4	< 2	21,700	10.4	< 10	< 10	< 100	< 3	16,100	10.1	< 0.2	44.8	< 5,000	< 5	< 2	117,000	< 2	< 10	< 20	476
	08/19/98	< 100	< 5	< 5	129	< 4	< 2	21,500	< 10	< 10	12.8	< 100	< 3	14,100	12.6	< 0.2	136	< 5,000	< 5	< 2	118,000	< 2	< 10	< 20	445
	06/02/98	< 100	< 5	< 5	137	< 4	< 2	22,900	< 10	< 10	10	< 100	< 3	14,300	< 10	< 0.2	85.2	< 5,000	< 5	< 2	127,000	< 2	< 10	26.9	502
	03/09/98	< 100	< 5	< 5	135	< 4	< 2	20,300	< 10	< 10	< 10	< 100	< 3	13,600	< 10	< 0.2	34.6	< 5,000	< 5	< 2	114,000	< 2	< 10	< 20	476
	12/11/97	< 100	< 5	< 5	141	< 4	< 2	18,000	< 10	< 10	< 10	< 100	< 3	16,300	< 10	< 0.2	94.1	< 5,000	< 5	< 2	101,000	< 2	< 10	< 20	429
	09/10/97	< 100	< 5	< 5	129	< 4	< 2	20,200	< 10	< 10	< 10	< 100	< 3	15,100	< 10	< 0.2	217	< 5,000	< 5	< 2	116,000	< 2	< 10	< 20	457
	06/25/97	< 100	< 5	< 5	130	< 4	< 2	22,000	< 10	< 10	< 10	< 100	< 3	14,600	< 10	< 0.2	267	< 5,000	< 5	< 2	124,000	< 2	< 10	212	416
	03/27/97	< 100	< 5	< 5	138	< 4	< 2	19,700	< 10	< 10	< 10	< 100	< 3	13,300	14.3	< 0.2	< 20	< 5,000	< 5	< 2	119,000	< 2	< 10	< 20	469
	12/20/96	< 100	< 5	< 5	168	< 4	< 2	17,800	< 10	< 10	< 10	< 100	< 3	18,700	33.5	< 0.2	< 20	< 5,000	< 5	< 2	95,300	< 2	< 10	< 20	431
	09/11/96	111	< 5	< 5	127	< 2	< 0.5	15,200	2.3	< 10	1.6	225	< 1	14,800	144	< 0.2	5	< 5,000	< 5	< 0.5	101,000	< 2	< 10	< 20	521
	06/03/96	< 100	< 5	< 5	18	< 2	< 0.5	41,700	50.7	< 10	< 1	< 100	< 1	30,400	< 10	< 0.2	< 5	< 5,000	< 5	< 0.5	36,900	< 2	< 10	32.8	480
	03/15/96	590	< 5	5.5	155	< 2	< 0.5	17,300	16	< 10	72.7	942	3.8	16,200	330	< 0.2	56.7	< 5,000	< 5	< 0.5	97,600	< 2	< 10	< 20	490
	11/28/95	140	< 5	< 5	130	< 2	< 0.5	15,500	3.7	< 10	1.9	220	< 1	15,400	150	< 0.2	5.2	< 5,000	< 5	< 0.5	98,100	< 2	< 10	< 20	426
	09/19/95	130	< 60	< 5	120	< 2	< 5	15,600	< 10	< 10	< 20	220	< 1	13,700	190	< 0.2	< 40	< 5,000	< 5	< 10	100,000	< 2	< 10	< 20	470
	06/05/95	< 100	< 60	< 5	150	< 2	< 5	21,900	< 10	< 10	< 20	< 100	< 3.2	16,400	310	< 0.2	< 40	< 5,000	< 5 (U27)	< 10	111,000	< 5 (U27)	< 10	120	516
	03/08/95	310	< 60	< 5	130	< 2	< 5	17,300	< 10	< 10	< 20	380	< 3.2	17,000	440	< 0.2	58	< 5,000	< 5	< 10	108,000	< 5 (U9)	< 10	< 20	431
	12/15/94	< 100	< 60	< 5	130	< 2	< 5	17,800	< 10	< 10	< 20	< 100	< 5	15,500	190	< 0.2	< 40	< 5,000	< 5 (U27)	< 10	108,000	< 5 (U27)	< 10	< 20	412
	09/23/94	< 100	NA	< 5	170	NA	NA	18,300	< 10	< 10	< 20	< 100	< 3.2	20,300	120	< 0.2	< 40	< 5,000	< 5 (U27)	NA	102,000	< 5 (U27)	< 10	< 20	496
LF08GW02B	03/16/06	< 100 UJ	< 1	< 5	41	< 2	< 1	22,000	33	< 10	< 1	< 100	< 3	30,000	< 10	< 0.2	< 20	890	< 5	< 1	32,000 J	< 1	< 10	< 20	430 J
	03/15/05	< 100	< 1	< 5	41	< 2	< 1	21,000	37	< 10	< 1	< 100	< 3	31,000	< 10	< 0.2	< 20	500	< 5	< 1	35,000	< 1	< 10	< 20	360
	03/11/04	< 100	< 1	< 5	40	< 2	< 1	25,000	36	< 10	< 1	< 100	< 3	31,000	< 10	0.24	< 20	600	< 5	< 1 UJ	37,000	< 1	< 10	< 20	240
	08/20/03	< 100	< 1	< 5	45	< 2	< 1	22,000	28	< 10	< 1	170	< 3	29,000	< 10	< 0.2	< 20	1,700	< 5	< 1 UJ	35,000	< 1	< 10	< 20 UJ	390
	03/13/03	< 100	< 1	1.6	34	< 1	< 1	26,000	34	< 1	< 1	< 100	< 3	29,000	< 10	< 0.2	2.4	620	< 5	< 1 UJ	37,000 J-	< 1	< 10	< 10	340
	08/27/02	< 100	< 1	1.3	270	< 1	< 1	23,000	32 J	< 1	< 1	< 100	< 3	30,000	< 10	< 0.2	4	900	< 5	< 1 UJ	37,000	< 1	< 10	92	310
	03/12/02	< 100	1.1	1.9	440	< 1	< 1	26,000	39	< 1	< 1	< 100	< 3	30,000	< 10	< 0.2	3.3	750	< 5	< 1 UJ	40,000	< 1	< 10	120	290
	09/05/01	< 100	1.6	2.2	390 J+	< 1	< 1	32,000	37	< 1	1.1	140	< 3	31,000	< 10	< 0.2	3.1	970	< 5	< 1 UJ	39,000	< 1	< 10	58	310
	05/16/01	< 100	1.5	2.2	460	< 1	< 1	< 500 R	41 J	< 1	< 1	190	< 3	30,000	< 10	< 0.2	2.9	840 J	< 5	< 1	39,000	< 1	< 10	110	350
	06/15/00	< 100	< 5	< 5	34.7	< 2	< 2	25,800	40.5	< 10	< 10	< 100	< 3	28,800	< 10	< 0.2	< 20	< 5,000	< 5 (U1)	< 2	33,500	< 2	< 10	< 20	344
	01/12/00	< 100	< 5	< 5	31.1	< 2	< 2	26,500	51.6	< 10	< 10	< 100	< 3	27,900	< 10	< 0.2	< 20	< 5,000	< 5	< 2	33,700	< 2	< 10	< 20	327

Table A-2-3
Results of Dissolved Metals Analyses
Landfill 8
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
LF08GW02B	08/31/99	< 100	< 5	< 5	35.6	< 2	< 2	26,800	37.5	< 10	< 10	< 100	< 3	28,900	< 10	NA	< 20	< 5,000	< 5	< 2	34,200	< 2	< 10	< 20	323
	02/25/99	< 100	< 5	< 5	35.2	< 4	< 2	26,500	41.8	< 10	< 10	< 100	< 3	27,800	< 10	< 0.2	< 20	< 5,000	< 5	< 2	34,000	< 2	< 10	< 20	316
	08/20/98	< 100	< 5	< 5	33.4	< 4	< 2	26,900	34.8	< 10	11	< 100	< 3	25,100	< 10	< 0.2	< 20	< 5,000	< 5	< 2	35,600	< 2	< 10	< 20	303
	06/03/98	< 100	< 5	< 5	34.6	< 4	< 2	27,500	38.3	< 10	< 10	< 100	< 3	26,800	< 10	< 0.2	< 20	< 5,000	< 5	< 2	43,900	< 2	< 10	< 20	337
	03/10/98	< 100	< 5	< 5	39.7	< 4	< 2	29,100	50	< 10	< 10	< 100	< 3	30,000	< 10	< 0.2	< 20	5,500	< 5	< 2	34,000	< 2	< 10	< 20	346
	12/15/97	< 100	< 5	< 5	23.2	< 4	< 2	28,500	43.4	< 10	< 10	< 100	< 3	24,700	< 10	< 0.2	< 20	< 5,000	< 5	< 2	33,100	< 2	< 10	< 20	296
	09/11/97	< 100	< 5	< 5	29.6	< 4	< 2	30,400	38.5	< 10	< 10	< 100	< 3	27,100	< 10	< 0.2	< 20	< 5,000	< 5	< 2	31,500	< 2	< 10	< 20	343
	06/24/97	< 100	< 5	< 5	29.8	< 4	< 2	31,900	43.1	< 10	< 10	< 100	< 3	28,300	< 10	< 0.2	< 20	< 5,000	< 5	< 2	34,400	< 2	< 10	< 20	376
	03/25/97	< 100	< 5	< 5	18.5	< 4	< 2	33,400	44.7	< 10	< 10	< 100	< 3	24,700	< 10	< 0.2	< 20	< 5,000	< 5	< 2	34,600	< 2	< 10	< 20	349
	12/23/96	< 100	< 5	< 5	19.5	< 4	< 2	31,100	41.6	< 10	< 10	< 100	< 3	24,800	< 10	< 0.2	< 20	< 5,000	< 5	< 2	30,300	< 2	< 10	< 20	342
	09/11/96	< 100	< 5	< 5	< 10	< 2	< 0.5	35,600	29.2	< 10	< 1	< 100	< 1	20,900	< 10	< 0.2	< 5	< 5,000	< 5	< 0.5	35,600	< 2	< 10	< 20	334
	06/03/96	< 100	< 5	< 5	19.2	< 2	< 0.5	43,700	58.4	< 10	< 1	< 100	< 1	32,000	< 10	< 0.2	< 5	< 5,000	< 5	< 0.5	39,000	< 2	< 10	34.2	377
	03/15/96	< 100	< 5	< 5	< 10	< 2	< 0.5	32,600	35.7	< 10	1.1	< 100	1	17,800	< 10	< 0.2	< 5	< 5,000	< 5	< 0.5	34,400	< 2	< 10	< 20	299
	11/28/95	< 100	< 5	< 5	< 10	< 2	< 0.5	32,300	30	< 10	1.6	< 100	1.4	15,700	< 10	< 0.2	8.3	< 5,000	< 5	< 0.5	32,800	< 2	< 10	< 20	324
	09/19/95	< 100	< 60	< 5	< 10	< 2	< 5	39,300	26	< 10	< 20	< 100	< 1	20,500	< 10	< 0.2	< 40	< 5,000	< 5	< 10	40,200	< 2	< 10	< 20	372
	06/06/95	< 100	< 60	< 5	< 10	< 2	< 5	37,600	26	< 10	< 20	< 100	< 3.2	21,300	< 10	< 0.2	< 40	5,800	< 5 (U27)	< 10	45,000	< 5	< 10	< 20	320
	03/23/95	< 100	< 60	< 5	< 10	< 2	< 5	26,400	30	< 10	< 20	< 100	< 3.2	2,400	< 10	< 0.2	< 40	16,400	< 5	< 10	53,700	< 5 (U27)	21	< 20	214
	12/16/94	< 100	< 60	5.4	< 10	< 2	< 5	30,400	23	< 10	< 20	< 100	< 5	4,700	< 10	< 0.2	< 40	10,700	< 5	< 10	57,300	< 5 (U27)	12	< 20	266
	09/26/94	< 100	NA	< 5	11	NA	NA	37,400	20	< 10	< 20	< 100	< 3.2	15,600	< 10	< 0.2	< 40	9,400	< 5	NA	56,200	< 5 (U27)	< 10	< 20	303
LF08GW03	03/16/06	< 100 UJ	< 1	< 5	140	< 2	< 1	20,000	23	< 10	< 1	< 100	< 3	52,000	< 10	< 0.2	< 20	610	< 5	< 1	59,000 J	< 1	< 10	< 20	550 J
	03/18/05	< 100	< 1	< 5	140	< 2	< 1	20,000	22	< 10	< 1	< 100	< 3	51,000	< 10	< 0.2	< 20	630	< 5	< 1	61,000	< 1	< 10	< 20	470
	03/11/04	< 100	< 1	< 5	130	< 2	< 1	21,000	22	< 10	< 1	< 100	< 3	51,000	< 10	< 0.2	< 20	680	< 5	< 1 UJ	61,000	< 1	< 10	< 20	440
	08/20/03	< 100	< 1	< 5	130	< 2	< 1	19,000	22	< 10	< 1	150	< 3	54,000	< 10	0.25	< 20	500	< 5	< 1 UJ	62,000	< 1	< 10	< 20 UJ	520
	03/13/03	< 100	< 1	< 1	130	< 1	< 1	19,000	22	< 1	< 1	< 100	< 3	49,000	< 10	< 0.2	< 1	520	< 5	< 1 UJ	59,000 J-	< 1	< 10	< 10	460
	08/27/02	< 100	< 1	< 1	360	< 1	< 1	20,000	24 J	< 1	< 1	< 100	< 3	52,000	< 10	< 0.2	1.7	670	< 5	< 1 UJ	62,000	< 1	< 10	77	460
	03/12/02	< 100	< 1	1	590	< 1	< 1	22,000	23	< 1	< 1	< 100	< 3	56,000	< 10	< 0.2	< 1	740	< 5	< 1 UJ	65,000	< 1	< 10	150	430
	09/04/01	< 100	2.7	1.1	600 J+	< 1	< 1	24,000	27	< 1	1	120	< 3	60,000	< 10	< 0.2	3	610	< 5	< 1 UJ	67,000	< 1	< 10	120	NA [2]
	05/16/01	< 100	1	1.2	< 21	< 1	< 1	< 500 R	28 J	< 1	< 1	270	< 3	< 10,000	< 10	< 0.2	1.4	770 J	< 5	< 1	< 10,000	< 1	< 10	120	450
	06/15/00	< 100	< 5	< 5	140	< 2	< 2	22,400	29.6	< 10	< 10 (U1)	< 100 (U1)	< 3	56,100	< 10	< 0.2	< 20	< 5,000	< 5 (U1)	< 2	62,200	< 2	< 10	< 20	507
	01/12/00	< 100	< 5	< 5	140	< 2	< 2	22,000	31.3	< 10	< 10	< 100	< 3	55,600	< 10	< 0.2	< 20	< 5,000	< 5	< 2	59,900	< 2	< 10	< 20	485
	08/31/99	< 100	< 5	< 5	145	< 2	< 2	22,400	28	< 10	< 10	< 100	< 3	57,000	< 10	NA	< 20	< 5,000	< 5	< 2	62,900	< 2	< 10	< 20	502
	02/25/99	< 100	< 5	< 5	144	< 4	< 2	20,900	28.5	< 10	< 10	< 100	< 3	54,600	< 10	< 0.2	< 20	< 5,000	< 5	< 2	62,900	< 2	< 10	< 20	490
	08/20/98	< 100	< 5	< 5	135	< 4	< 2	20,800	25.5	< 10	11.8	< 100	< 3	52,500	< 10	< 0.2	< 20	< 5,000	< 5	< 2	58,500	< 2	< 10	< 20	475
	06/03/98	< 100	< 5	< 5	138	< 4	< 2	21,600	23.9	< 10	< 10	< 100	< 3	54,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	61,900	< 2	< 10	< 20	470
	03/10/98	< 100	< 5	< 5	132	< 4	< 2	21,400	32.3	< 10	< 10	< 100	< 3	53,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	61,300	< 2	< 10	< 20	326
	12/15/97	< 100	< 5	< 5	141	< 4	< 2	21,000	27	< 10	< 10	< 100	< 3	53,500	< 10	< 0.2	< 20	< 5,000	< 5	< 2	62,200	< 2	< 10	77.5	462
	09/11/97	< 100	< 5	< 5	132	< 4	< 2	20,500	26.7	< 10	< 10	< 100	< 3	51,900	< 10	< 0.2	< 20	< 5,000	< 5	< 2	59,000	< 2	< 10	< 20	487
	06/24/97	< 100	< 5	< 5	141	< 4	< 2	21,300	28.2	< 10	< 10	< 100	< 3	53,800	< 10	< 0.2	< 20	< 5,000	< 5	< 2	61,600	< 2	< 10	< 20	458
	03/26/97	< 100	< 5	< 5	134	< 4	< 2	20,100	28	< 10	< 10	< 100	< 3	51,900	< 10	< 0.2	< 20	< 5,000	< 5	< 2	60,000	< 2	< 10	< 20	489
	12/20/96	< 100	< 5	< 5	123	< 4	< 2	19,700	27.5	< 10	< 10	< 100	< 3	49,900	< 10	< 0.2	< 20	< 5,000	< 5	< 2	56,400	< 2	< 10	< 20	482
	09/10/96	< 100	< 5	< 5	134	< 2	< 0.5	20,500	24.8	< 10	< 1	< 100	< 1	52,400	< 10	< 0.2	< 5	< 5,000	< 5	< 0.5	61,500	< 2	< 10	< 20	466
	03/18/96	< 100	< 5	< 5	129	< 2	< 0.5	22,500	29.4	< 10	2.4	< 100	< 1	53,500	< 10	< 0.2	7.3	< 5,000	< 5	< 0.5	59,300	< 2	< 10	< 20	500
	11/29/95	210	< 5	< 5	130	< 2	< 0.5	20,700	26	< 10	1.2	360	< 1	52,700	31	0.27	< 5	< 5,000	< 5	< 0.5	58,600	< 2	< 10	21	498
	09/18/95	< 100	< 60	< 5	130	< 2	< 5	20,700	26	< 10	< 20	< 100	< 1	53,300	< 10	3.2	< 40	< 5,000	< 5	< 10	59,800	< 2	< 10	< 20	539
	06/07/95	< 100	< 60	< 5	130	< 2	< 5	22,400	22	< 10	< 20	< 100	< 3.2	55,100	< 10	< 0.2	< 40	< 5,000	< 5 (U27)	< 10	61,200	< 5 (U27)	< 10	< 20	493
	03/24/95	< 100	< 60	< 5	110	< 2	< 5	24,000	28	< 10	< 20	< 100	< 3.2	53,100	< 10	< 0.2	< 40	< 5,000	5 (U27, U	< 10	63,800	25 (U27, U	< 10	< 20	462
	12/14/94	< 100	< 60	< 5	140	< 2	< 5	22,700	31	< 10	< 20	< 100	< 5	57,800	< 10	< 0.2	< 40	< 5,000	< 5 (U27)	< 10	63,200	< 50 (U27	< 10	< 20	492
	09/26/94	< 100	NA	< 5	100	NA	NA	21,100	29	< 10	< 20	< 100	< 3.2	52,600	< 10	< 0.2	< 40	< 5,000	< 25	NA	60,300	< 5 (U27)	< 10	< 20	454

Table A-2-3
Results of Dissolved Metals Analyses
Landfill 8
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
LF08GW04	03/16/06	< 100 UJ	< 1	< 5	16	< 2	< 1	32,000	< 10	< 10	< 1	< 100	< 3	5,300	< 10	< 0.2	< 20	2,700	< 5	< 1	15,000 J	< 1	< 10	< 20	280 J
DUP0316064A	03/16/06	< 100 UJ	< 1	< 5	17	< 2	< 1	32,000	< 10	< 10	< 1	< 100	< 3	5,300	< 10	< 0.2	< 20	2,700	< 5	< 1	16,000 J	< 1	< 10	< 20	140 J
	03/17/05	< 100	< 1	< 5	14	< 2	< 1	30,000	< 10	< 10	< 1	< 100	< 3	9,300	< 10	< 0.2	< 20	2,500	< 5	< 1	10,000	< 1	< 10	< 20	170 J-
DUP0317052A	03/17/05	< 100	< 1	< 5	15	< 2	< 1	31,000	< 10	< 10	< 1	< 100	< 3	9,500	< 10	< 0.2	< 20	2,500	< 5	< 1	10,000	< 1	< 10	< 20	170 J-
LF08GW04CL	03/17/05	< 100 U	< 2 U	< 2 U	15.3	< 1 U	< 1 U	31,200	< 10 U	< 1 U	< 2 U	< 100 U	< 1 U	9,340	< 10 U	< 0.2 U	2.86	< 5,000 UN	< 2 U	< 1 U	10,400 J	< 1 U	< 10 U	< 20 U	170
	03/11/04	< 100	< 1	< 5	21	< 2	< 1	46,000	< 10	< 10	< 1	140	< 3	6,600	< 10	< 0.2	< 20	3,500	< 5	< 1 UJ	12,000	< 1	< 10	< 20	130
	08/20/03	< 100	< 1	< 5	35	< 2	< 1	31,000	< 10	< 10	< 1	250	< 3	16,000	< 10	< 0.2	< 20	1,800	< 5	< 1 UJ	26,000	< 1	< 10	< 20 UJ	320
	03/13/03	< 100	< 1	< 1	18	< 1	< 1	23,000	2.6	< 1	< 1	< 100	< 3	6,000	< 10	< 0.2	3.3	2,300	< 5	< 1 UJ	14,000 J-	< 1	< 10	< 10	200
DUP0313031A	03/13/03	< 100	< 1	< 1	16	< 1	< 1	23,000	2.8	< 1	< 1	< 100	< 3	6,100	< 10	< 0.2	3.4	2,300	< 5	< 1 UJ	13,000 J-	< 1	< 10	< 10	190
LF08GW04CL	03/13/03	< 100	< 5	3	17	< 1	< 1	24,000	6.6	< 1	< 5	< 500	< 3	6,100	< 5	< 0.2	< 5	2,800	< 5	< 1	17,000	< 2	< 10	23	170
	08/28/02	< 100	< 1	< 1	340	< 1	< 1	51,000	1.5 J	< 1	1.4	< 100	< 3	27,000	< 10	< 0.2	10	2,100	< 5	< 1 UJ	34,000	< 1	< 10	130	410
	03/14/02	< 100	1.8	< 1	470	< 1	< 1	39,000	2.7	< 1	1.1	130	< 3	5,400	< 10	< 0.2	3.4	2,600	< 5	< 1 UJ	14,000	< 1	< 10	150	170
	09/04/01	< 100	1.9	< 1	400 J+	< 1	< 1	50,000	2.8	< 1	1.8	220	< 3	23,000	< 10	< 0.2	15 J	1,500	< 5	< 1 UJ	29,000	< 1	< 10	230	NA
DUP0904013A	09/04/01	< 100	1.2	< 1	180 J+	< 1	< 1	49,000	2.2	< 1	1.6	240	< 3	24,000	< 10	0.35	15 J	2,000	< 5	< 1 UJ	26,000	< 1	< 10	46	NA
LF08GW04CL	09/04/01	< 200	0.64 J	< 2	130	< 1	< 1	41,000	< 2	0.59 J	1.8 J	< 200	< 5	21,000	< 5	< 0.2	14	2,100	< 5	< 1	23,000	< 1	< 5	18	360
	05/16/01	< 100	1.6	< 1	2,500	< 1	< 1	< 500 R	< 1 UJ	< 1	1.4	230	< 3	9,200	< 10	< 0.2	4.6	1,000 J	< 5	< 1	18,000	< 1	< 10	< 210	180
LF08GW04CL	05/16/01	220	< 2	< 2	100	< 1	< 1	19,000	4.8	< 1	< 2	< 200	< 5	9,400	< 5	< 0.2	4.2	1,500	< 5	< 1	18,000	< 1	< 5	35	160
	06/19/00	< 100	< 5	< 5	< 10	< 2	< 2	8,350	< 10 (U1)	< 10	< 10	< 100 (U1)	< 3	3,990	< 10	< 0.2	< 20	< 5,000	< 5	< 2	32,900	< 2	< 10	160	102
	01/12/00	< 100	< 5	< 5	56.4	< 2	< 2	36,900	< 10	< 10	< 10	< 100	< 3	18,000	110	< 0.2	< 20	< 5,000	< 5	< 2	33,600	< 2	< 10	< 20	307
	08/31/99	< 100	< 5	< 5	52.1	< 2	< 2	31,700	< 10	10.7	< 10	< 100	< 3	15,300	1,740	NA	55.5	< 5,000	< 5	< 2	30,900	< 2	< 10	< 20	266
	02/24/99	< 100	< 5	< 5	29.9	< 4	< 2	54,000	< 10	< 10	< 10	< 100	< 3	8,580	837	< 0.2	< 20	< 5,000	< 5	< 2	20,400	< 2	< 10	< 20	270
	08/19/98	< 100	< 5	< 5	42.3	< 4	< 2	23,200	< 10	< 10	< 10	< 100	< 3	10,600	13.5	< 0.2	< 20	< 5,000	< 5	< 2	24,600	< 2	< 10	< 20	188
	06/02/98	< 100	< 5	< 5	24	< 4	< 2	26,500	< 10	< 10	< 10	< 100	< 3	7,090	< 10	< 0.2	< 20	< 5,000	< 5	< 2	14,700	< 2	< 10	< 20	297
	03/09/98	102	< 5	< 5	15.1	< 4	< 2	22,700	< 10	< 10	< 10	103	< 3	4,700	< 10	< 0.2	< 20	< 5,000	< 5	< 2	11,100	< 2	< 10	< 20	179
	12/11/97	< 100	< 5	< 5	83.1	< 4	< 2	111,000	< 10	< 10	< 10	< 100	< 3	29,800	< 10	< 0.2	< 20	5,600	< 5	< 2	23,700	< 2	< 10	< 20	439
	09/10/97	< 100	< 5	< 5	65.7	< 4	< 2	37,200	< 10	< 10	< 10	< 100	< 3	17,200	< 10	< 0.2	< 20	< 5,000	< 5	< 2	26,600	< 2	< 10	< 20	330
	06/23/97	280	< 5	< 5	47.4	< 4	< 2	26,100	< 10	< 10	< 10	< 100	< 3	11,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	23,600	< 2	< 10	< 20	235
	03/24/97	< 100	< 5	< 5	18.7	< 4	< 2	20,500	< 10	< 10	< 10	< 100	< 3	4,870	< 10	< 0.2	< 20	< 5,000	< 5	< 2 (U9)	13,800	< 2	< 10	< 20	125
	12/19/96	< 100	< 5	< 5	52.6	< 4	< 2	33,100	< 10	< 10	< 10	< 100	< 3	11,100	< 10	< 0.2	< 20	< 5,000	< 5	< 2	30,900	< 2	< 10	41.8	247
	09/10/96	< 100	< 5	< 5	135	< 2	< 0.5	20,800	25.4	< 10	< 1	< 100	< 1	52,500	< 10	< 0.2	< 5	< 5,000	< 5	< 0.5	61,500	< 2	< 10	< 20	238
	03/18/96	< 100	< 5	< 5	20	< 2	< 0.5	33,000	6.5	< 10	5.8	< 100	1.2	3,880	< 10	< 0.2	12.9	< 5,000	< 5	< 0.5	17,400	< 2	< 10	< 20	188
	11/29/95	< 100	< 5	< 5	15	< 2	< 0.5	27,500	1.9	< 10	< 1	170	< 1	8,500	31	< 0.2	6.7	< 5,000	< 5	< 0.5	20,900	< 2	< 10	< 20	258
	09/20/95	< 100	< 60	< 5	25	< 2	< 5	25,000	< 10	< 10	< 20	< 100	< 1	8,700	< 10	< 0.2	< 40	< 5,000	< 5	< 10	22,300	< 2	< 10	< 20	236
	06/07/95	< 100	< 60	< 5	25	< 2	< 5	33,100	< 10	< 10	< 20	< 100	< 3.2	5,000	< 10	< 0.2	< 40	< 5,000	< 5	< 10	14,000	< 5	< 10	< 20	187
	03/23/95	< 100	< 60	< 5	17	< 2	< 5	35,500	< 10	< 10	< 20	< 100	< 3.2	3,000	< 10	< 0.2	< 40	< 5,000	< 5	< 10	15,100	< 5	< 10	52	153
	12/16/94	< 100	< 60	< 5	45	< 2	< 5	83,100	< 10	< 10	< 20	< 100	< 5	9,300	< 10	< 0.2	< 40	< 5,000	< 5	< 10	11,400	< 5	< 10	< 20	348
	09/23/94	< 100	NA	< 5 (U26)	< 10	NA	NA	14,300	< 10	< 10	< 20	< 100	< 3.2	5,700	12	< 0.2	< 40	< 5,000	< 5	NA	< 5,000	< 5	< 10	< 20	342
LF08GW06	03/17/06	< 100	< 1	< 5	46	< 2	< 1	23,000	< 10	< 10	< 1	< 100	< 3	22,000 J	< 10	< 0.2	< 20	4,600 J-	< 5	< 1	140,000	< 1	< 10	< 20	600
	03/16/05	< 100	< 1	< 5	68	< 2	< 1	33,000	< 10	< 10	< 1	< 100	< 3	34,000	< 10	< 0.2	< 20	2,700	< 5	< 1	160,000	< 1	< 10	< 20	730
	03/11/04	< 100	< 1	< 5	81	< 2	< 1	48,000	< 10	< 10	< 1	150	< 3	37,000	< 10	< 0.2	< 20	2,400	< 5	< 1 UJ	170,000	< 1	< 10	< 20	660
	06/10/03	< 100	< 1	< 5	43	< 2	< 1	35,000	< 10	< 10	< 1	< 100	< 3	35,000	< 10	< 0.2	< 20	1,900	< 5	< 1	160,000	< 1	< 10	< 20	720
	03/13/03	< 100	1.3	1.1	50	< 1	< 1	33,000	5.2	< 1	< 1	< 100	< 3	33,000	11	< 0.2	3.7	2,900	< 5	< 1 UJ	150,000 J-	< 1	< 10	29	750
	06/05/02	< 100	< 1	1.6	420	< 1	< 1	38,000	5.1	< 1	1.1	140	< 3	40,000	< 10	< 0.2	2.2	3,400	< 5	< 1	180,000	< 1	< 10	200	690
	03/12/02	< 100	< 1	1.5	300	< 1	< 1	39,000	7.1	< 1	1.3	< 100	< 3	40,000	< 10	< 0.2	4.3	4,700	< 5	< 1 UJ	180,000	< 1	< 10	120	730
	05/10/01	< 100	1.8	1.6	720	< 1	< 1	37,000	17 J	2.6	5.5 J	380	< 3	40,000	16	< 0.2	19 J	3,500	< 5	< 1 UJ	180,000	< 1	< 10	240 J	750 J
	05/21/99	< 100	< 5	< 5	< 10	< 2	< 2	43,200	< 10	< 10	< 10	< 100	< 3	35,600	< 10	< 0.2	< 20	< 5,000	< 5	< 2	169,000	< 2	< 10	< 20	755
	02/25/99	< 100	< 5	< 5	44.3	< 4	< 2	37,700	< 10	< 10	10.7	< 100	3.3	31,400	367	< 0.2	< 20	< 5,000	< 5	< 2	175,000	< 2	< 10	< 20	764

Table A-2-3
Results of Dissolved Metals Analyses
Landfill 8
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
LF08GW06	03/10/98	< 100	< 5	< 5	57.7	< 4	< 2	48,400	< 10	< 10	< 10	< 100	< 3	32,100	< 10	< 0.2	< 20	7,270	< 5	< 2	175,000	< 2	< 10	< 20	3,800
	09/10/97	< 100	< 5	< 5	33.1	< 4	< 2	61,500	< 10	< 10	< 10	< 100	< 3	33,000	57.8	< 0.2	< 20	5,350	< 5	< 2	178,000	< 2	< 10	24.4	NA
	03/27/97	< 100	< 5	< 5	69.9	< 4	< 2	50,300	< 10	< 10	< 10	< 100	< 3	38,400	< 10	< 0.2	< 20	8,790	< 5	< 2	206,000	< 2	< 10	< 20	878

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
mg/L - milligrams per liter
µg/L - micrograms per liter
NA - not analyzed
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Groundwater samples collected from all site monitoring wells were field filtered and analyzed for dissolved metals.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-2-4
Groundwater Elevation Summary
Landfill 8
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF08GW01	05/22/06	17.23	234.54	217.31	MW
	03/06/06	15.34	234.54	219.20	MW
	11/28/05	26.21	234.54	208.33	MW
	08/29/05	22.97	234.54	211.57	MW
	05/23/05	19.32	234.54	215.22	MW
	03/14/05	16.80	234.54	217.74	MW
	12/13/04	28.53	234.54	206.01	MW
	08/09/04	25.93	234.54	208.61	MW
	05/24/04	22.28	234.54	212.26	MW
	03/08/04	18.93	234.54	215.61	MW
	12/01/03	24.91	234.54	209.63	MW
	08/11/03	23.64	234.54	210.90	MW
	06/02/03	21.30	234.54	213.24	MW
	03/10/03	20.64	234.54	213.90	MW
	12/02/02	28.04	234.54	206.50	MW
	08/26/02	25.95	234.54	208.59	MW
	05/28/02	22.30	234.54	212.24	MW
	03/04/02	19.36	234.54	215.18	MW
	11/26/01	30.45	234.54	204.09	MW
	08/27/01	28.72	234.54	205.82	MW
	05/08/01	22.91	234.54	211.63	MW
LF08GW02B	05/22/06	44.75	225.27	180.52	MW
	03/06/06	49.58	225.27	175.69	MW
	11/28/05	50.72	225.27	174.55	MW
	08/29/05	49.70	225.27	175.57	MW
	05/23/05	49.30	225.27	175.97	MW
	03/14/05	51.95	225.27	173.32	MW
	12/13/04	52.24	225.27	173.03	MW
	08/09/04	50.59	225.27	174.68	MW
	05/24/04	49.51	225.27	175.76	MW
	03/08/04	51.60	225.27	173.67	MW
	12/01/03	51.94	225.27	173.33	MW
	08/11/03	51.07	225.27	174.20	MW
	06/02/03	50.87	225.27	174.40	MW
	03/10/03	52.13	225.27	173.14	MW
	12/02/02	52.49	225.27	172.78	MW
	08/26/02	51.60	225.27	173.67	MW
	05/28/02	51.30	225.27	173.97	MW
	03/04/02	52.76	225.27	172.51	MW
	11/26/01	52.73	225.27	172.54	MW
	08/27/01	51.94	225.27	173.33	MW
	05/08/01	51.98	225.27	173.29	MW
LF08GW03	05/22/06	33.42	230.41	196.99	MW
	03/06/06	35.32	230.41	195.09	MW
	11/28/05	39.39	230.41	191.02	MW
	08/29/05	38.34	230.41	192.07	MW
	05/23/05	36.50	230.41	193.91	MW
	03/14/05	35.41	230.41	195.00	MW
	12/13/04	40.65	230.41	189.76	MW
	08/09/04	39.47	230.41	190.94	MW
	05/24/04	38.13	230.41	192.28	MW
	03/08/04	36.00	230.41	194.41	MW
	12/01/03	39.34	230.41	191.07	MW

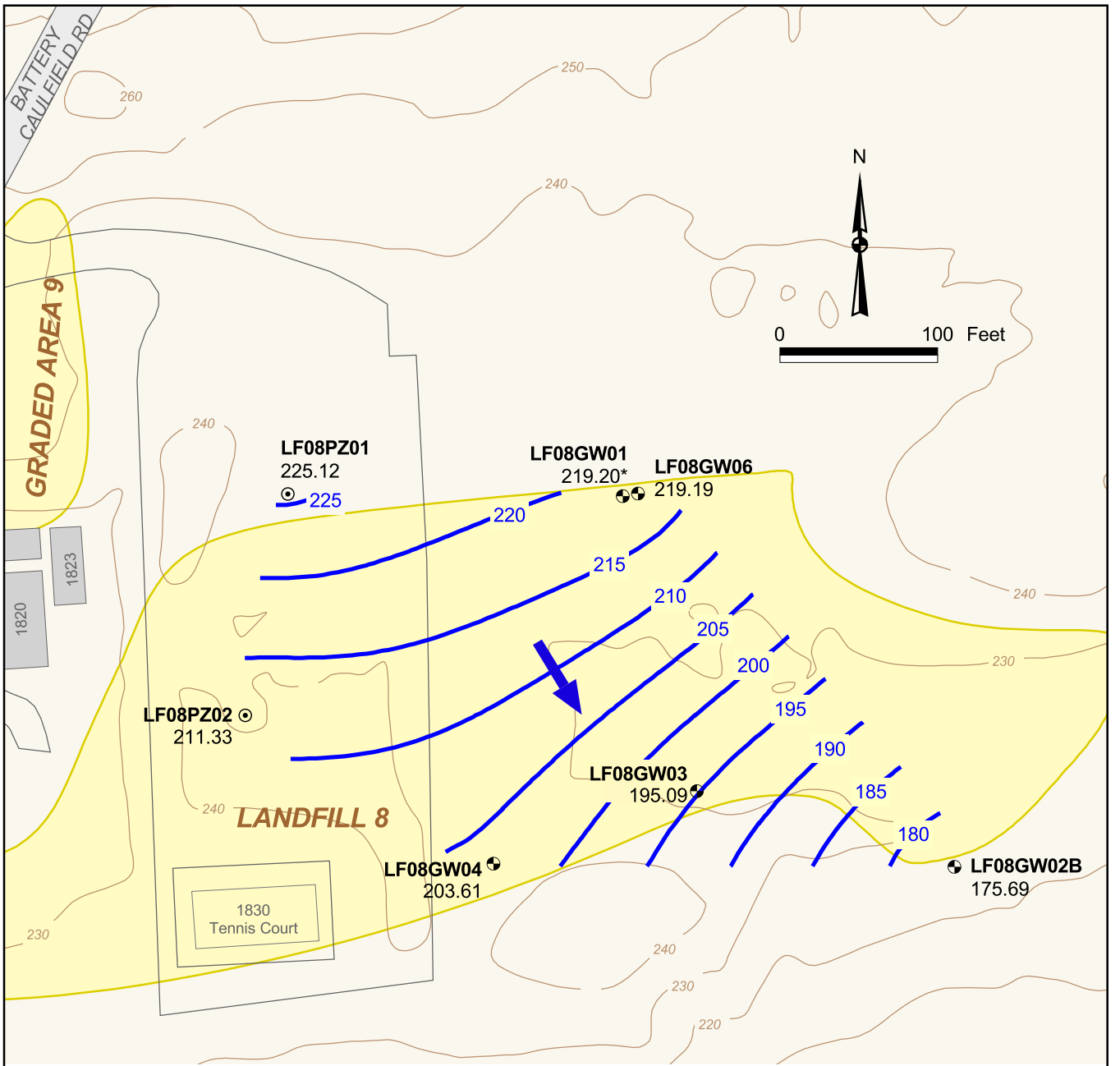
Table A-2-4
Groundwater Elevation Summary
Landfill 8
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF08GW03	08/11/03	38.54	230.41	191.87	MW
	06/02/03	37.52	230.41	192.89	MW
	03/10/03	37.34	230.41	193.07	MW
	12/02/02	40.18	230.41	190.23	MW
	08/26/02	39.23	230.41	191.18	MW
	05/28/02	37.92	230.41	192.49	MW
	03/04/02	37.15	230.41	193.26	MW
	11/26/01	41.04	230.41	189.37	MW
	08/27/01	40.26	230.41	190.15	MW
	05/08/01	38.34	230.41	192.07	MW
LF08GW04	05/22/06	31.54	234.70	203.16	MW
	03/06/06	31.09	234.70	203.61	MW
	11/28/05	37.53	234.70	197.17	MW
	08/29/05	37.17	234.70	197.53	MW
	05/23/05	33.48	234.70	201.22	MW
	03/14/05	31.02	234.70	203.68	MW
	12/13/04	34.8	234.70	199.90	MW
	08/09/04	37.57	234.70	197.13	MW
	05/24/04	35.8	234.70	198.90	MW
	03/08/04	32.15	234.70	202.55	MW
	12/01/03	37.35	234.70	197.35	MW
	08/11/03	37.40	234.70	197.30	MW
	06/02/03	35.60	234.70	199.10	MW
	03/10/03	34.52	234.70	200.18	MW
	12/02/02	37.37	234.70	197.33	MW
	08/26/02	37.47	234.70	197.23	MW
	05/28/02	35.48	234.70	199.22	MW
	03/04/02	33.23	234.70	201.47	MW
	11/26/01	36.36	234.70	198.34	MW
	08/27/01	37.65	234.70	197.05	MW
	05/08/01	35.67	234.70	199.03	MW
LF08GW06	05/22/06	15.84	234.31	218.47	MW
	03/06/06	15.12	234.31	219.19	MW
	11/28/05	24.39	234.31	209.92	MW
	08/29/05	21.1	234.31	213.21	MW
	05/23/05	17.34	234.31	216.97	MW
	03/14/05	14.93	234.31	219.38	MW
	12/13/04	24.73	234.31	209.58	MW
	08/09/04	24.25	234.31	210.06	MW
	05/24/04	20.65	234.31	213.66	MW
	03/08/04	15.84	234.31	218.47	MW
	12/01/03	23.47	234.31	210.84	MW
	08/11/03	21.87	234.31	212.44	MW
	06/02/03	19.31	234.31	215.00	MW
	03/10/03	18.96	234.31	215.35	MW
	12/02/02	24.75	234.31	209.56	MW
	08/26/02	23.76	234.31	210.55	MW
	05/28/02	19.69	234.31	214.62	MW
	03/04/02	17.52	234.31	216.79	MW
	11/26/01	24.75	234.31	209.56	MW
	08/27/01	24.71	234.31	209.60	MW
	05/08/01	20.47	234.31	213.84	MW

Table A-2-4
Groundwater Elevation Summary
Landfill 8
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF08PZ01	05/22/06	8.65	234.34	225.69	PZ
	03/06/06	9.22	234.34	225.12	PZ
	11/28/05	20.09	234.34	214.25	PZ
	08/29/05	15.17	234.34	219.17	PZ
	05/23/05	NL [2]	234.34	NA	PZ
	03/14/05	9.55	234.34	224.79	PZ
	12/13/04	18.67	234.34	215.67	PZ
	08/09/04	18.56	234.34	215.78	PZ
	05/24/04	12.22	234.34	222.12	PZ
	03/08/04	10.10	234.34	224.24	PZ
	12/01/03	18.77	234.34	215.57	PZ
	08/11/03	16.95	234.34	217.39	PZ
	06/02/03	12.48	234.34	221.86	PZ
	03/10/03	11.64	234.34	222.70	PZ
	12/02/02	21.77	234.34	212.57	PZ
	08/26/02	NL [2]	234.34	NA	PZ
	05/28/02	NL [2]	234.34	NA	PZ
	03/04/02	9.69	234.34	224.65	PZ
	11/26/01	21.82	234.34	212.52	PZ
	08/27/01	21.74	234.34	212.60	PZ
	05/08/01	13.53	234.34	220.81	PZ
LF08PZ02	05/22/06	19.46	234.62	215.16	PZ
	03/06/06	23.29	234.62	211.33	PZ
	11/28/05	33.09	234.62	201.53	PZ
	08/29/05	29.06	234.62	205.56	PZ
	05/23/05	21.85	234.62	212.77	PZ
	03/14/05	23.87	234.62	210.75	PZ
	12/13/04	33.90	234.62	200.72	PZ
	08/09/04	32.24	234.62	202.38	PZ
	05/24/04	28.05	234.62	206.57	PZ
	03/08/04	25.40	234.62	209.22	PZ
	12/01/03	34.55	234.62	200.07	PZ
	08/11/03	31.43	234.62	203.19	PZ
	06/02/03	29.35	234.62	205.27	PZ
	03/10/03	29.50	234.62	205.12	PZ
	12/02/02	36.22	234.62	198.40	PZ
	08/26/02	32.26	234.62	202.36	PZ
	05/28/02	27.95	234.62	206.67	PZ
	03/04/02	27.62	234.62	207.00	PZ
	11/26/01	37.19	234.62	197.43	PZ
	08/27/01	35.50	234.62	199.12	PZ
	05/08/01	30.88	234.62	203.74	PZ

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
2 - Piezometer was covered in landscaping material and was not located during the survey.
NL - not located
NA - not available
MW- Monitoring Well
PZ - Piezometer
feet PLLW - feet above Presidio Lower Low Water vertical datum



LEGEND

LF08GW02B 175.69 — Groundwater Monitoring Well, March 2006 Groundwater Elevation

LF08PZ02 211.33 — Piezometer, March 2006 Groundwater Elevation

* — Monitoring well not used in contouring, screened in bedrock.

Approximate Direction of Groundwater Flow

Groundwater Elevation Contour (Contour Interval : 5 ft)

Approximate Lateral Extent of Landfill

1830 — Previously Removed Building

Topographic Contour (Contour Interval : 10 ft)

Notes:
Groundwater elevation data collected on 6 March 2006.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

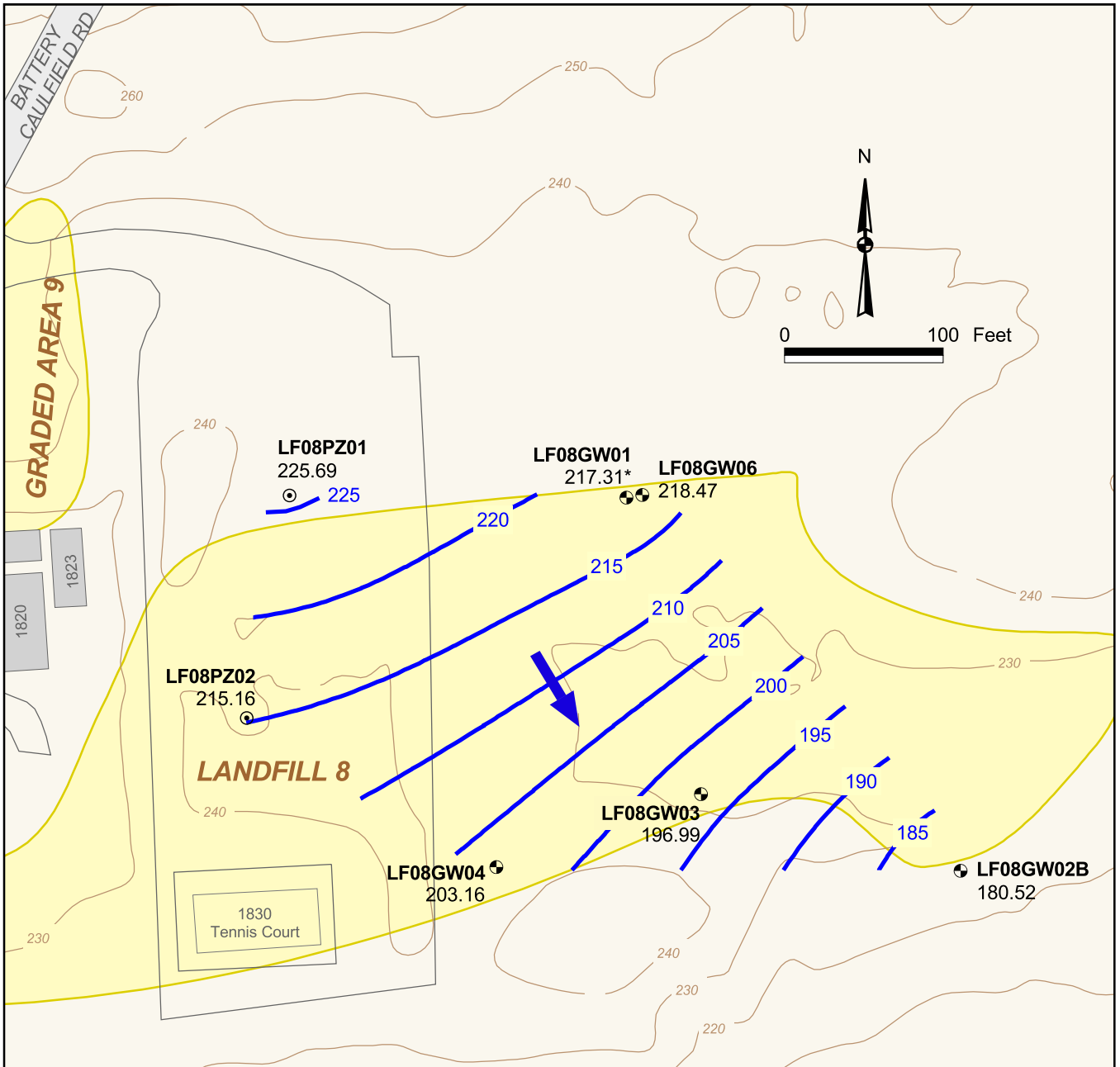
LANDFILL 8 SITE PLAN AND 6 MARCH 2006 GROUNDWATER ELEVATION MAP

Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 561-5315
October 2006

FIGURE A-2-1



LEGEND

LF08GW02B 180.52 — Groundwater Monitoring Well, May 2006 Groundwater Elevation

LF08PZ02 215.16 — Piezometer, May 2006 Groundwater Elevation

* — Monitoring well not used in contouring, screened in bedrock.

Approximate Direction of Groundwater Flow

Groundwater Elevation Contour (Contour Interval : 5 ft)

Approximate Lateral Extent of Landfill

1830 — Previously Removed Building

Topographic Contour (Contour Interval : 10 ft)

Notes:
Groundwater elevation data collected on 22 May 2006.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

LANDFILL 8 SITE PLAN AND 22 MAY 2006 GROUNDWATER ELEVATION MAP

Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 561-5315
October 2006

FIGURE A-2-2

Treadwell & Rollo 2893_04\Q2_2006\A_02.APR 10/2006

First Quarter 2006

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: LF8 | Well No.: LF08GW01

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: B Powell | Sampled by: B Powell | Date: 3/17/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 45.68

Depth to Water (WL, ft. below TOC): 13.90

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Normal [ ] Modified (max 5 gpm)

[ ] Bailer \ Type [X] Pump \ Type 2" grundfos [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft) [X] Near Bottom Depth (ft) 45' [ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 36 min

Recharge Rate: 400 ml/min | Purge Rate: 500 mL/min

4.0 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type:

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
935	/	1.5	7.25	14.76	3.17	0.975	88.2	6.07	DTW = 14.56
938	/	3.0	7.06	14.62	3.09	0.973	89.0	6.39	DTW = 14.98
941	/	4.5	6.53	14.72	3.02	0.977	120.8	5.91	DTW = 15.72
944	/	6.0	6.60	15.04	2.85	0.982	175.9	5.41	DTW = 15.81
947	/	7.5	6.91	15.18	2.89	0.985	161.2	6.78	DTW = 16.12
950	/	9.0	7.02	14.92	2.96	0.980	120.2	7.04	DTW = 16.31
953	/	10.5	7.10	15.11	2.91	0.978	101.9	6.88	DTW = 16.41
956	/	12.0	7.13	15.35	2.83	0.978	80.6	6.54	DTW = 16.47
959	/	13.5	7.13	15.37	2.80	0.978	56.0	6.95	DTW = 16.52
1002	/	15.0	7.17	15.41	2.73	0.973	30.8	6.71	DTW = 16.54
1005	/	16.5	7.14	15.36	2.71	0.967	27.1	6.65	DTW = 16.55
1008	/	18.0	7.15	15.31	2.68	0.966	21.4	6.81	DTW = 16.58
	/								
	/								
	/								

Comments: Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 3/17/06 1 1015

Purging Equipment: Pump - Type 2" grundfos Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF08GW01	3 x 40 ml	CET	2052	
	4 x 1L Amber			
	2 x 1L Poly			
	1 x HNO3			Filtered

QUALITY CONTROL SAMPLES 1x NaOH

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 8 | Well No.: LF08GW02B

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: B Pound | Sampled by: B Pound | Date: 3/16/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 60.48

Depth to Water (WL, ft. below TOC): 48.98

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type 2" grundfos
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) 60'
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 21 min

Recharge Rate: 450 ml/min | Purge Rate: 200 ml/min

3.0 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI / Hach

Time	/	Liters or Gallons	pH	Temp (C) °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1336	/	1.5	6.80	15.64	5.88	0.409	24.7	5.60	DTW = 49.51
1339	/	3.0	6.79	15.88	5.83	0.412	54.3	4.17	DTW = 49.82
1342	/	4.5	6.79	16.33	5.79	0.416	51.7	3.98	DTW = 50.02
1345	/	6.0	6.78	16.79	5.73	0.421	38.0	4.06	DTW = 50.17
1348	/	7.5	6.77	17.02	5.70	0.423	51.8	4.01	DTW = 50.22
1351	/	9.0	6.77	17.30	5.67	0.424	47.7	3.90	DTW = 50.21
1354	/	10.5	6.78	17.37	5.65	0.423	49.7	3.98	DTW = 50.22
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 3/16/06 / 1400

Purging Equipment: Pump - Type 2" grundfos | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF08GW02B	3 x 40 mL	CLP	2047	
	2 x 1L Poly			
	1 x HNO_3			Filtered
	1 x NaOH			

QUALITY CONTROL SAMPLES 4 x 1L Amber

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	LF08GW02BRB03 @ 1420
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 8 | Well No.: LF08GW03

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: B Brown | Sampled by: B Brown | Date: 3/16/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 45.74

Depth to Water (WL, ft. below TOC): 33.88

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Normal [ ] Modified (max 5 gpm) [ ] Bailer \ Type [X] Pump \ Type 2" grundfos [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft) [ ] Near Bottom Depth (ft) 45' [ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 21 min

Recharge Rate: 500 ~~500~~ ml/min | Purge Rate: 500 ml/min | gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI / Hach

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1449	1.5	7.32	14.97	2.14	0.591	6.2	6.59	DTW=34.39
1452	3.0	7.24	15.61	2.05	0.601	-0.8	5.82	DTW=34.62
1455	4.5	7.23	16.09	1.79	0.608	-4.2	5.53	DTW=34.71
1458	6.0	7.23	16.33	1.60	0.611	-9.2	5.60	DTW=34.78
1501	7.5	7.23	16.49	1.53	0.613	-15.8	5.42	DTW=34.80
1504	9.0	7.23	16.58	1.47	0.614	-19.9	5.19	DTW=34.81
1507	10.5	7.23	16.67	1.49	0.615	-22.7	5.28	

Comments: Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 3/16/06 / 1515

Purging Equipment: Pump - Type 2" grundfos | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF08GW03	3 x 40 mL	CET	2047	
	4 x 1L Amber			
	1 x Amber			Filtered
	2 x 1L Poly			

QUALITY CONTROL SAMPLES 1 x NaOH

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 8 | Well No.: LF08GW04

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: B Crowe | Sampled by: B Crowe | Date: 3/16/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 45.70

Depth to Water (WL, ft. below TOC): 29.23

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type 2" grundfos
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) 45.
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 15 min

Recharge Rate: 500 ml/min | Purge Rate: 500 ml/min

7.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI, Hach

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1124	/	1.5	6.73	14.15	2.76	0.235	70.9	9.81	DTW=30.17
1127	/	3.0	6.61	14.19	2.59	0.235	71.1	7.35	DTW=30.31
1130	/	4.5	6.51	14.63	2.48	0.236	66.8	6.31	DTW=30.38
1133	/	6.0	6.48	14.97	2.44	0.238	63.4	6.21	DTW=30.48
1136	/	7.5	6.47	15.01	2.43	0.239	59.2	6.18	DTW=30.41
	/								
	/								
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	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 3/16/06 / 1145

Purging Equipment: Pump - Type 2" grundfos | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF08GW04	3x40mL	CET	2047	
	1x HNO3			filtered
	2x 1L Poly			
	4x 1L Amber			

QUALITY CONTROL SAMPLES 1x NaOH

Duplicate Samples

Original Sample No.	Duplicate Sample No.
LF08GW04	DUP03160644A

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: LF8 | Well No.: LF08GW06

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: B Prowd | Sampled by: B Prowd | Date: 3/17/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 25.41

Depth to Water (WL, ft. below TOC): 12.68

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type 2" grundfos
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) 25'
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 27 min

Recharge Rate: 350 ml/min | Purge Rate: 500 ml/min

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
823	/	1.5	6.55	13.97	7.20	0.754	197.2	7.25	DTW = 13.48
826	/	3.0	6.75	14.38	7.24	0.760	178.0	8.71	DTW = 13.72
829	/	4.5	6.87	14.60	6.66	0.767	146.7	8.24	DTW = 14.15
832	/	6.0	6.74	14.60	6.54	0.769	132.2	7.99	DTW = 14.29
835	/	7.5	6.78	14.63	6.68	0.773	131.6	7.76	DTW = 14.60
838	/	9.0	6.82	14.99	6.80	0.776	117.0	7.88	DTW = 14.82
841	/	10.5	6.86	15.25	6.90	0.779	103.2	7.57	DTW = 14.97
844	/	12.0	6.82	15.40	6.90	0.783	99.8	7.29	DTW = 15.08
847	/	13.5	6.80	15.55	6.85	0.786	103.8	7.45	DTW = 15.10
	/								
	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/17/06 / 855

Purging Equipment: Pump - Type 2" grundfos | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
~~3 x 40~~ LF08GW06	3 x 40ml	CLP	2052	
	4x 1L Amb			
	2x 1L Poly			
	1x HNO3			Filtered

QUALITY CONTROL SAMPLES 1x MS/MSD

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	LF08GW06RB01 @ 915
Transfer	
Other:	

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FILL SITE 6
APPENDIX SECTION A-3
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2006
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

Fill Site (FS) 6 is located in the northeastern portion of the Presidio (Figure 1). The topography across FS 6 is relatively flat and covered by buildings, streets, paved areas, and landscaping. The site ground surface elevation ranges from approximately 10 to 40 feet above the PLLW datum (Montgomery Watson, 1997a).

FS 6 is bounded by Lincoln Boulevard to the south, Halleck Street to the west, General Kennedy Avenue to the east, and Doyle Drive to the north (Figure A-3-1). FS 6 is reported to contain building debris from the original Letterman Army Medical Center, which was demolished in 1975, as well as a variety of other buildings. During construction of the parking lot east of Building 1028 in the 1980s, some building debris was discovered (Dames & Moore, 1997). In the southwest corner of the site, a mounded area relative to the adjacent areas (FS 6A), was formerly present and contained PCB-impacted soil (EKI, 2003).

The Trust installed four monitoring wells (LF6GW100, LF6GW101, LF6GW102, and LF6GW103) in July 2000 to investigate whether FS 6 contains soluble concentrations of chemicals of concern that adversely affect groundwater quality, and to investigate the possibility that fill materials extend west of Girard Road (EKI, 2003). As discussed in Section 3.0, FS 6 was divided into two portions, FS 6A and FS 6B (Figure A-3-1). In FS 6A, polychlorinated biphenyl's (PCBs) and mercury were present in soil above applicable cleanup levels. In preparation for the FS 6A remedial action, monitoring well LF6GW102 was abandoned in the First Quarter 2005. Remedial excavation was completed in September 2005 at FS 6A. Prior to the First Quarter 2006, the Trust installed six piezometers (LF6PZ101 through LF6PZ106) at FS 6A as described in Section 3.0.

Groundwater samples collected from FS 6 monitoring wells (Figure A-3-1) have been analyzed for general chemistry, dissolved oxygen, total organic carbon (TOC), total petroleum hydrocarbons as gasoline (TPHg), TPH as diesel (TPHd), dissolved gases (ethane, ethene and methane), polycyclic aromatic hydrocarbons (PAHs), organochlorine pesticides (OCPs), polychlorinated biphenyls (PCBs), 23 dissolved metals, and arsenic speciation. Additionally, monitoring well 231GW09 was added to the FS 6 monitoring plan to serve as a downgradient well for FS 6A and has been sampled for general chemistry, dissolved oxygen, volatile organic compounds (VOCs), MTBE, TPHg, TPHd, TPH as fuel oil (TPHfo), and dissolved metals. Groundwater analytical results are presented in Tables A-3-1 through A-3-5.

To evaluate changing redox conditions, pH, temperature and oxygen-reduction potential (ORP) were added to the program in the First Quarter 2006. The *Technical Memorandum, Evaluation of Arsenic and Other Metals in Groundwater at Three Corrective Action Plan Sites, Presidio of San Francisco, San Francisco, California* (MACTEC, 2006), concluded that ORP is a good indicator for evaluating changing redox conditions. The First Quarter 2006 pH, temperature and ORP data are presented in Table A-3-2 and will be used in the ongoing redox evaluations at CAP sites.

2.0 SITE DESCRIPTION AND GEOLOGY

FS 6 is located in the Northeastern Groundwater Area of the Marina Groundwater Basin (Figure 1). Depth to groundwater ranges from approximately 6 to 22 feet bgs, based on groundwater monitoring well data. Groundwater level data indicate groundwater flow is generally to the north, towards the San Francisco Bay.

During the drilling of the RI soil borings in the eastern portion of FS 6, two lithologic units were encountered in the area. Underneath the paved areas west of Building 1028, the upper layer consists of fill material extending to a maximum depth of 7 feet bgs. The fill was found to include wood, bricks, concrete, ceramic tiles, asphalt roofing materials, and buckshot (Montgomery Watson, 1999b). The fill is believed to consist largely of building demolition debris. Below the fill is clayey silty sand to well-sorted sand with minor clay layers of the Colma Formation, which is consistent with geologic mapping of the area conducted by Schlocker (Schlocker, 1974). The Franciscan Formation is estimated to be present at approximately 175 feet bgs in this area.

Lithologic units encountered in the southwestern corner of FS 6 include an upper layer of fill material extending to an approximate depth of 15 or more feet, underlain by slope debris, ravine fill, and Colma Formation deposits. The fill consists largely of building demolition debris in a sand matrix and ranges from minor debris to significant sand and concrete foundations and rubble.

3.0 REMEDIAL ACTION PLAN

The *Remedial Action Plan* (RAP) *for Fill Site 6A and Baker Beach Disturbed Areas 3 and 4*, selected excavation, recycling, and offsite disposal of impacted fill material and underlying soil, along with groundwater monitoring, as the remedial alternative for FS 6A (Figure A-3-1). The goal of the remediation at FS 6A will be to remove all contaminated material, leaving in place soil that meets the established cleanup levels (Treadwell & Rollo, 2003c).

In accordance with the California Code of Regulations, Title 27, Subchapter 3, Section 20390, a site that has undergone clean closure (where all wastes and residues, contaminated subsoil, and other contaminated materials are removed or decontaminated at closure) must be shown to

comply with the water quality protection standards or the cleanup levels presented in Section 3 of the RAP for three years. Table 3 from the RAP summarizes groundwater cleanup levels applicable to FS 6A. These cleanup levels are based on the most stringent values for protecting drinking and surface waters. RAP-specified groundwater cleanup levels for some analytes are slightly lower than their QAPP analytical reporting limits. Applicable RAP-specified cleanup levels are listed on site data tables A-3-1 through A-3-5.

Based on the availability of new data associated with the Building 1065 Study Area, FS 6 has been divided into two portions, FS 6A and FS 6B (Figure A-3-1). FS 6A addresses the portion of FS 6 bounded by Lincoln Boulevard to the south, Girard Avenue to the east, the area just west of the buildings to the west of Halleck Street, and a sidewalk between Building 227 and 1030 to the north. In FS 6A, PCBs and mercury were formerly present in soil above applicable cleanup levels. The remainder of FS 6, consisting of FS 6B, will be subject to an evaluation of data and potential remedial action alternatives in a future decision document (Treadwell & Rollo, 2003c).

Pre-excavation activities for FS 6A began in winter 2004 and excavation began in May 2005. Prior to remediation excavation activities and the Second Quarter 2005 sampling event, monitoring well LF6GW102 was abandoned. The FS 6A remedial excavation was completed in September 2005. Following completion of excavation activities, three new wells (LF6GW104 through LF6GW106) were installed per the RAP and six new piezometers (LF6PZ101 through LF6PZ106) were installed to monitor water levels related to stream restoration at locations shown on Figure A-3-1. The six new piezometers were constructed using hand-held equipment and were installed directly into native soil. Because no sand pack or grout material was used in the construction of the piezometers, it was subsequently determined that development was not required.

The installation of the new wells and piezometers completes the FS 6A RAP groundwater well monitoring network, which consists of both new and existing wells. The proposed groundwater monitoring program and rationale is presented in Table 10 of the RAP. The six piezometers are monitored quarterly for groundwater elevations starting the First Quarter 2006.

4.0 GROUNDWATER MONITORING

During the First Quarter 2006, groundwater elevations were measured and samples were collected from the seven FS 6 monitoring wells (LF6GW100, LF6GW101, LF6GW103 through LF6GW106, and 231GW09) (Table 1A). During the Second Quarter 2006, groundwater elevations were measured at the seven monitoring wells and samples collected at five FS 6 wells (LF6GW103 through LF6GW106, and 231GW09) (Table 1B). Beginning with the Second Quarter 2003, the sampling frequency and analytical suite for monitoring well 231GW09 was modified to serve as a downgradient well for FS 6A. Additionally, the six new piezometers used to gauge water levels associated with FS 6A stream restoration were monitored during the First and Second Quarters 2006.

4.1 Groundwater-Level Measurements and Interpretation

Groundwater elevations at the FS 6A shallow aquifer monitoring wells were evaluated with Building 231/207 and Building 1065/1027 shallow monitoring wells to better understand groundwater flow direction and gradients in this area. Current and historical FS 6 water elevations are presented in Table A-3-6. Monitoring well data for these adjacent sites can be found in Tables A-10-3 and A-11-4, respectively. A discussion of groundwater elevation trends in the FS 6 and Building 1065 vicinity can be found in Section 5.1 in Appendix A-11.

Groundwater elevation measurements were collected on 6 March and 22 May 2006. During the First Quarter 2006, groundwater elevations, within FS 6A and associated wells, ranged from 11.32 to 20.27 feet above PLLW in monitoring wells LF6GW103 and LF6GW105, respectively (Figure A-3-2). During the Second Quarter 2006, groundwater elevations ranged from 11.26 to 20.64 feet above PLLW in monitoring wells LF6GW103 and LF6GW105, respectively (Figure A-3-3). The water level measurements from the six new piezometers ranged in elevation from 9.52 to 13.08 feet above PLLW, during the First and Second Quarters 2006. These water levels are associated with surface stream water levels are shallower than site groundwater levels, and therefore, they were not used to create groundwater contours.

During the First and Second Quarters 2006, the groundwater flow direction in the FS 6 and surrounding areas was generally north-northeast, towards the San Francisco Bay following the general topographic trend (Figures A-3-2 and A-3-3). The First and Second Quarter 2006 groundwater gradients beneath the footprint of FS 6A were estimated to be approximately 0.013 feet per foot. The overall groundwater gradients and flow directions observed at FS 6A during the First and Second Quarters 2006 are consistent with previous findings.

4.2 Monitoring Well Purging and Sampling

The First Quarter 2006 sampling at FS 6 occurred on 15, 17 and 20 March 2006. The Second Quarter 2006 sampling occurred 23 and 24 May 2006. The First and Second Quarters 2006 sampling at FS 6 were conducted in accordance with methods shown in Tables 1A and 1B of the main text and in accordance with procedures described in the FSP (Treadwell & Rollo, 2001a).

Purge equipment, purging volumes, purge water general chemistry parameters, and sampling equipment for each monitoring well are described in the purge records located at the conclusion of this section. Purge water was stored for future disposal in one of two 2,800-gallon aboveground polyethylene storage tanks, which are located at the Central Magazine.

4.3 Groundwater Analytical Program

All groundwater samples collected were submitted to the project laboratory for the analyses shown in Tables 1A and 1B of the main text. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are shown in Table 5.

Sample containers used for each well are described in the purge records located at the conclusion of this section.

QA/QC samples were collected as part of this program. Section 6.2 of the main text discusses the QA/QC sampling and analysis performed during the First and Second Quarters 2006.

5.0 GROUNDWATER ANALYTICAL RESULTS

Current and historical analytical results are presented in Tables A-3-1 through A-3-5. During the First Quarter 2006 groundwater samples were collected from the seven FS 6 associated monitoring wells. During the Second Quarter 2006, groundwater samples were collected at five FS 6 wells (LF6GW103 through LF6GW106, and 231GW09). Monitoring wells LF6GW104 through LF6GW106 were only sampled for the third time during the Second Quarter 2006 and therefore, new highs and low concentration trends are not discussed for these wells.

During the First Quarter 2006, groundwater samples collected from the seven FS 6 monitoring wells were analyzed for TOC, 23 dissolved metals, TDS, total sulfide and general chemistry. Additionally, redox (pH, ORP and temperature) parameters were measured. LF6GW100, LF6GW101, and LF6GW103 were also analyzed for PAHs, OCPs, PCBs, TPHg and TPHd. Groundwater samples collected from LF6GW104 and LF6GW106 were additionally analyzed for PAHs, TPHd and TPHfo. Groundwater samples collected from 231GW09 were also analyzed for VOCs, TPHg, TPHd and TPHfo. The VOCs results are provided and discussed as part of the Building 207/231 Area (A-10).

During the Second Quarter 2006, groundwater samples were collected from five FS 6 monitoring wells and analyzed for 23 dissolved metals, TDS, and general chemistry and redox (pH, ORP and temperature) parameters. Monitoring wells LF6GW100 and LF6GW101 were not scheduled for sampling during the Second Quarter 2006. LF6GW103 was also analyzed for PAHs, OCPs, PCBs, TPHg and TPHd. Groundwater samples collected from LF6GW104 and LF6GW106 were additionally analyzed for PAHs, TPHd and TPHfo and samples collected from 231GW09 were analyzed for VOCs, TPHg, TPHd and TPHfo.

ORP, pH, and temperature were measured in the field and results are presented in Table A-3-2.

The following sections discuss analytical results collected at FS 6 during the First and Second Quarters 2006.

5.1 Dissolved Oxygen Results

Dissolved oxygen was measured in wells sampled during the First and Second Quarters 2006. Dissolved oxygen results are presented in Table A-3-2. During the First Quarter 2006, dissolved oxygen was measured at concentrations ranging from 0.52 to 4.15 mg/L at monitoring wells

LF6GW105 and LF6GW101, respectively. During the Second Quarter 2006, dissolved oxygen was measured at LF6GW104 and 231GW09 at concentrations ranging from 0.42 and 2.64 mg/L. These levels are within historical ranges previously measured at FS 6.

5.2 General Chemistry Results

The majority of the general chemistry parameter results measured during the First and Second Quarters 2006 are within or near historical ranges. Four FS 6 monitoring wells had new high and/or low concentrations of general chemistry parameters during the First and Second Quarters 2006. The new high/low concentrations detected are only slightly outside of historical highs or lows and can be attributed to the small number of sampling events at some locations and to natural fluctuation. An evaluation of the redox state of site groundwater and relative general chemistry results is presented in Section 6.0.

5.3 TPH Results

TPHd was detected only in well LF6GW103 at a concentration of 76 µg/L during the Second Quarter 2006 (Table A-3-1). TPHd was previously detected during the Third Quarter 2001 at LF6GW100 (at 60 µg/L) and LF6GW102 (at 57 µg/L) and during the Second Quarter 2004 at 231GW09 (at 170 µg/L). TPHd has not exceeded RAP cleanup levels to date within any FS 6 monitoring wells sampled. TPHg and TPHfo have not been detected in FS 6 groundwater samples analyzed for these analytes.

5.4 OCP and PCB Results

No OCPs or PCBs were detected in the LF6GW100, LF6GW101, and LF6GW103 FS 6 monitoring well samples collected during the First and Second Quarters 2006 as shown in Table A-3-2.

5.5 PAH Results

No PAHs were detected in FS 6 wells LF6GW100, LF6GW101, LF6GW103, LF6GW104 and LF6GW106 , during the First and Second Quarters 2006 as shown in Table A-3-2.

5.6 Dissolved Metals and TDS Results

Dissolved metals results are presented in Table A-3-3. The table below summarizes new high and low dissolved metals and TDS analytical results from the First and Second Quarters 2006 when compared to historical data, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date sampling commenced, and the number of duplicate analyses performed. Only the new high or new low data are shown.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Metals, Dissolved							
LF6GW100	Magnesium	21 / 21	43,000	230,000	41,000 *	--	µg/L
	Sodium	21 / 21	28,000	120,000	27,000	--	µg/L
LF6GW101	Sodium	15 / 15	55,000	250,000	52,000	--	µg/L
	Total Dissolved Solids	15 / 15	400	560	--	600	mg/L
LF6GW103	Calcium	25 / 25	37,000	59,000 *	31,000	--	µg/L
	Chromium	28 / 28	27	37 *	26	--	µg/L
	Magnesium	26 / 26	57,000	270,000	49,000 *	--	µg/L
	Potassium	23 / 26	< 5,000 *	1,300	< 500 *	--	µg/L
	Sodium	26 / 26	65,000	300,000	59,000	--	µg/L
	Total Dissolved Solids	26 / 26	560	760	430	--	mg/L
231GW09	Barium	16 / 16	46	58	31	61	µg/L
	Calcium	17 / 17	22,000	60,200	15,000	--	µg/L
	Magnesium	17 / 17	39,000	60,700	24,000	--	µg/L
	Sodium	16 / 16	62,000	129,000	42,000	--	µg/L
	Total Dissolved Solids	26 / 26	420	790	320 *	--	mg/L

Qualified data in the table above is indicated with an asterisk (*).

Several new low and two new high concentrations were detected within FS 6 samples during the First and Second Quarters 2006. However, the detected concentrations are not considered significant since none exceeded groundwater cleanup levels specified in the RAP for dissolved metals (Treadwell & Rollo, 2003c), as shown on Table A-3-3.

As discussed in the RAP (Treadwell & Rollo, 2003c), selenium was retained as a potential chemical of concern (PCOC) because of a single-time exceedance, which was believed to be an artifact of sampling. Zinc was also considered as a PCOC due to cleanup level exceedances that may have been solely due to inadequate filtering of samples prior to analysis. Selenium has not been detected at LF6GW102 since 2000 or at any other FS 6 locations. Zinc has not exceeded its cleanup level since the Third Quarter 2002.

An evaluation of the redox state of site groundwater and relative dissolved metals results can be found in Section 6.0.

5.7 TOC and Dissolved Gas Results

Groundwater samples from FS 6A monitoring wells LF6GW100, LF6GW101, LF6GW103 through LF6GW106, and 231GW09 were analyzed for TOC during the First Quarter 2006. TOC analytical results are presented in Table A-3-5.

Dissolved gasses were removed from the program for the evaluation of redox conditions in accordance with recommendations from the *Technical Memorandum, Evaluation of Arsenic and*

Other Metals in Groundwater at Three Corrective Action Plan Sites, Presidio of San Francisco, San Francisco, California (MACTEC, 2006). An evaluation of the redox state of site groundwater and relative dissolved gas and TOC results can be found in Section 6.0.

5.8 Arsenic Speciation Results

Arsenic speciation analysis (Table A-3-4) was removed from the program for the evaluation of redox conditions in accordance with recommendations from the *Technical Memorandum, Evaluation of Arsenic and Other Metals in Groundwater at Three Corrective Action Plan Sites, Presidio of San Francisco, San Francisco, California* (MACTEC, 2006). An evaluation of the redox state of site groundwater can be found in Section 6.0.

6.0 GROUNDWATER REDOX EVALUATION

Several parameters were measured in the field and in the laboratory to help evaluate the redox state of groundwater at FS 6. The following parameters were included in the groundwater monitoring program at FS 6 during the First Quarter 2005 and are indicators of changing redox potential within groundwater. Analytes and their use, in terms of determining the current redox state of site groundwater, are listed below.

- **Dissolved Oxygen** – Dissolved oxygen is a field measurement that is collected using a flow through cell or a down-hole probe. Low dissolved oxygen concentrations are typically associated with low redox potential and reducing environments. Dissolved oxygen in the presence of organic carbon is consumed by microorganisms during biodegradation processes and therefore low dissolved oxygen concentrations are indicative of microbial activity.

- **Nitrate/Nitrite** – The process of denitrification reduces nitrate to nitrite, which is ultimately reduced to nitrogen gas in reducing environments. A decreasing nitrate concentration trend in groundwater can be indicative of low redox potential, microbial metabolism and a reducing environment. Increasing concentrations of nitrate are typically associated with a rising redox potential.

- **Sulfate/Sulfide** – Decreasing concentrations of sulfate indicate sulfate reduction is taking place due to a reducing environment. Decreasing concentrations of sulfate are usually associated with sulfide production (i.e. sulfide is a product of sulfate reduction) and the repeated presence of sulfide in groundwater further confirms that sulfate is being reduced.

- **TOC** – Decreasing trends in TOC over time indicate that microbial metabolism is taking place and TOC is being consumed.

- **Dissolved Arsenic, Iron and Manganese** – Increasing concentrations of arsenic, iron, and/or manganese can be typically associated with a decreasing redox potential. Decreasing concentrations of these metals in association with increasing sulfate concentrations can be associated with an increasing redox potential.

The above analytes and field measurements were collected within all FS 6 associated monitoring wells proposed for sampling during the First Quarter 2006.

The following analytical results were detected during the First and Second Quarters 2006 and provide an indication of the groundwater redox state at FS 6.

- Dissolved oxygen was measured in all monitoring wells during the First and Second Quarters 2006. During the First Quarter 2006, dissolved oxygen was measured at concentrations ranging from 0.52 to 4.15 mg/L at monitoring wells LF6GW105 and LF6GW101, respectively. During the Second Quarter 2006, dissolved oxygen was measured at LF6GW104 and 231GW09 at concentrations ranging from 0.42 and 2.64 mg/L. These levels are within historical ranges (Table A-3-2).

- Nitrate was detected at concentrations of 0.42 and 0.64 mg/L within monitoring wells LF6GW100 and LF6GW101, respectively, and at a concentration of 4.6 mg/L within monitoring well LF6GW105 during the First Quarter 2006. Nitrate was detected at concentrations of 5.7, 8.7, and 11 mg/L within monitoring wells LF6GW104, LF6GW106 and 231GW09, respectively, during the Second Quarter 2006 (Table A-3-2).

- Nitrite was not detected within any FS 6 monitoring wells during the First and Second Quarters 2006 (Table A-3-2).

- Sulfate was detected at concentrations ranging from 35 to 270 mg/L within FS 6 monitoring wells during the First Quarter 2006. Sulfate was detected at concentrations ranging from 68 to 210 mg/L within FS 6 monitoring wells during the Second Quarter 2006 (Table A-3-2).

- Sulfide was detected within monitoring well LF6GW100 at a concentration of 0.2 mg/L during the First Quarter 2006. Sulfide was not detected in any other FS 6 monitoring wells during the First and Second Quarters 2006 (Table A-3-2).

- ORP was measured during the First Quarter 2006 ranging from -249.2 mV to 205 mV within monitoring wells LF6GW101 and LF6GW100, respectively. ORP was measured during the Second Quarter 2006 ranging from 33.7 mV to 103.5 mV within monitoring wells 231GW09 and LF6GW106, respectively (Table A-3-2).

- TOC was detected during the First Quarter 2006 in all samples in which it was analyzed at concentrations ranging from 0.88 to 3.5 mg/L within monitoring wells 231GW09 and

LF6GW100, respectively (Table A-3-5). These levels are within historical ranges for FS 6 monitoring wells.

In addition to the above evaluation, modified redox diagrams were developed for each FS 6 monitoring well sampled. The redox diagrams were generated using the Sequence™ program and concentrations of dissolved oxygen, nitrate, manganese, iron, sulfate and methane and are plotted on Figure A-3-4. Each redox diagram consists of multiple axes, with each individual axis representing one of the above analytes. Each redox diagram is associated with one monitoring well location. The relative shape of each redox diagram represents an approximation of the redox state within the well studied. In general, the larger the polygon the more oxidizing the groundwater environment is at the well location, conversely, the smaller the polygon the more reducing the environment.

7.0 CONCLUSIONS & RECOMMENDATIONS

Groundwater elevations, gradients, and flow directions are consistent with historical values and interpretations. No significant trends or observations were identified at FS 6 during the First and Second Quarters 2006.

No RAP-specified cleanup levels were exceeded during either the First or Second Quarters 2006 within the FS 6 wells sampled.

TPHd was detected within well LF6GW103 at a concentration of 76 µg/L during the Second Quarter 2006. TPHd continues to remain below the RAP cleanup levels to date within FS 6 monitoring wells.

No OCPs or PCBs were detected within FS 6 monitoring wells during the First and Second Quarters 2006. However, aldrin was detected in monitoring well LF6GW103 in the Third Quarter 2005 at a concentration of 0.05 µg/L and dieldrin was detected in well LF6GW100 at a concentration of 0.1 µg/L. These levels exceeded the FS 6 RAP-specified cleanup level; therefore, OCP concentrations will continue to be evaluated during future sampling events.

No PAHs were detected in FS 6 wells during the First and Second Quarters 2006.

Several new high or low concentrations of dissolved metals were detected within FS 6 samples during the First Quarter 2006. However, the majority of the metal concentrations detected were generally within historical ranges.

Dissolved oxygen, nitrate, nitrite, sulfate, sulfide, and TOC were measured during the First and Second Quarters 2006. At many locations, these parameters were only measured for the first or second time, therefore these parameters should continue to be monitored during future sampling events to identify apparent trends.

Table 3
Soil and Groundwater Cleanup Levels
Fill Site 6A
Presidio of San Francisco, California

Potential Contaminant of Concern	QAPP Analytical Reporting Limit Soil (mg/kg)	Laboratory Detection Limit Soil (mg/kg)	Soil Cleanup Level (mg/kg)	QAPP Analytical Reporting Limit Water (µg/L)	Laboratory Detection Limit Water (µg/L)	Groundwater Cleanup Level (µg/L)
			Residential - Colma Ecological - Special Status[1]			Drinking Water Surface Water[2]
Inorganic Chemicals (Method 6020)						
Antimony	0.2	3	5	2.0	2.0	6
Arsenic	0.2	0.25	6.2	2.0	2.0	10
Barium	0.1	1	320	1.0	1.0	1,000
Beryllium	0.1	0.1	10	1.0	1.0	4
Cadmium	0.1	0.25	0.8	1.0	1.0	1.1
Chloride	--	--	--	--	--	250,000
Chromium (Cr(VI) & Cr(III))	0.2	0.5	140	2.0	2.0	50
Cobalt	0.1	1	21	1.0	1.0	--
Copper	0.2	0.5	49	2.0	2.0	11.8
Lead	0.1	0.15	160	1.0	1.0	3.2
Tetraethyl Lead	--		0.0052	--	--	--
Mercury	--	0.1	0.4	--	--	0.012
Molybdenum	0.1	1	12	1.0	1.0	--
Nickel	0.2	1	110	2.0	2.0	100
Selenium	0.2	0.25	0.5	2.0	2.0	5
Silver	0.1	0.25	2	1.0	1.0	4.1
Thallium	0.1	0.25	1	1.0	1.0	1.7
Vanadium	1.0	0.5	90	10	10	--
Zinc	0.2	1	60	2.0	2.0	106
Semivolatile Organic Compounds (Method 8270C)						
Acenaphthene	0.33	0.05	30	10	5	1,200
Acenaphthylene	0.33	0.05	30	10	10	--
Anthracene	0.33	0.05	30	10	0.5	770
Benzo(a)anthracene	0.33	0.05	0.27	10	0.1	0.0044
Benzo(a)pyrene	0.33	0.05	0.027	10	0.1	0.0044
Benzo(b)fluoranthene	0.33	0.05	0.27	10	0.2	0.0044
Benzo(g,h,i)perylene	0.33	0.05	30	10	0.2	150
Benzo(k)fluoranthene	0.33	0.05	0.27	10	0.1	0.0044
Benzyl Alcohol	0.33	0.33	1	10	10	--

Table 3
Soil and Groundwater Cleanup Levels
Fill Site 6A
Presidio of San Francisco, California

Potential Contaminant of Concern	QAPP Analytical Reporting Limit Soil (mg/kg)	Laboratory Detection Limit Soil (mg/kg)	Soil Cleanup Level (mg/kg)	QAPP Analytical Reporting Limit Water (µg/L)	Laboratory Detection Limit Water (µg/L)	Groundwater Cleanup Level (µg/L)
			Residential - Colma Ecological - Special Status[1]			Drinking Water Surface Water[2]
Semivolatile Organic Compounds (cont.)						
Bis(2-ethylhexyl)phthalate	--	--	54	10	10	1.8
Chrysene	0.33	0.05	2.7	10	0.1	0.0044
Dibenzo(a,h)anthracene	0.33	0.05	0.078	10	0.2	0.0044
Dibenzofuran	0.33	0.33	910	10	10	--
Fluoranthene	0.33	0.05	30	10	0.4	300
Fluorene	0.33	0.05	30	10	1.0	300
Indeno(1,2,3-c,d)pyrene	0.33	0.05	0.27	10	0.14	0.0044
2-methylnaphthalene	0.33	0.33	30	10	10	--
2-methylphenol (o-Cresol)	--	--	--	--	10	--
4-methylphenol (p-Cresol)	0.33	0.33	50	--	10	--
Naphthalene	0.33	0.05	40 (9)[3]	10	5	300
n-dotriacontane	--	--	--	--	--	--
n-hentriacontane	--	--	--	--	--	--
n-nitrosodiphenylamine	0.33	0.33	20	10	10	5
n-triacontane	--	--	--	--	--	--
Pentachlorophenol	1.6	1.7	3	50	10	0.03
Phenanthrene	0.33	0.05	30	10	0.5	230
Phenol	0.33	0.33	30	10	10	1
Total Carcinogenic Polycyclic Aromatic Hydrocarbons	--	--	-- (111)[3]	--	--	0.031
Pyrene	0.33	0.05	30	10	0.2	230
Volatile Organic Compounds (Method 8260B)						
Acetone	0.01	0.02	0.24	10	10	--
Bromodichloromethane	--	--	--	0.5	0.5	0.56
2-butanone (MEK)	0.01	0.01	3.8	10	10	--
Carbon disulfide	0.005	0.005	200	5.0	0.5	--
Carbon Tetrachloride	--	--	--	0.5	0.5	0.25
Chlorodibromomethane	--	--	--	0.5	0.5	0.40
Chlorobenzene	--	--	--	0.5	0.5	70
Chloroform	--	--	--	0.5	0.5	80
Chloromethane	--	--	--	0.5	1.0	--
1,4-dichlorobenzene	--	0.005	0.13	2.4	0.5	5
1,2-dichloroethane	--	--	--	0.5	0.5	0.38

Table 3
Soil and Groundwater Cleanup Levels
Fill Site 6A
Presidio of San Francisco, California

Potential Contaminant of Concern	QAPP Analytical Reporting Limit Soil (mg/kg)	Laboratory Detection Limit Soil (mg/kg)	Soil Cleanup Level (mg/kg) Residential - Colma Ecological - Special Status[1]	QAPP Analytical Reporting Limit Water (µg/L)	Laboratory Detection Limit Water (µg/L)	Groundwater Cleanup Level (µg/L) Drinking Water Surface Water[2]
Volatile Organic Compounds (cont.)						
1,1-dichloroethane	--		--	--	--	0.057
cis 1,2-dichloroethane	--		--	--	--	6
p-Isopropyltoluene (p-cymene)	--		130	--	--	--
Methylene Chloride	0.005	0.02	0.076	4.5	5	4.7
Tetrachloroethene	--	--	--	0.5	0.5	0.8
1,2,3-trichloroethane	--	--	--	--	--	7
1,2,4-trichloroethane	--	--	--	--	--	7
1,1,1-trichloroethane	0.01	0.005	8.0	0.5	0.5	200
Trichloroethene	0.01	0.05	--	0.5	0.5	2.7
Trichlorofluoromethane	--	0.005	40	--	0.5	150
MTBE	--	--	--	2	0.5	13
PCBs, Pesticides, and Herbicides (Methods 8081, 8082 & 8150)						
PCBs (Aroclor 1254)	0.033	0.012	0.033	--	0.5	0.00017
Aldrin	0.002	0.002	0.0039	0.05	0.025	0.00013
alpha-BHC	0.002	0.002	0.062	--	--	--
beta-BHC	0.002	0.002	0.062	--	--	0.014
delta-BHC	0.002	0.002	0.062	--	--	--
Chlordane	0.002	0.002	0.0090	0.5	0.25	0.00057
2,4-D	0.025	--	0.025	0.25	1.0	70
4,4'-DDD	0.004	0.002	0.049	0.1	0.05	0.00083
4,4'-DDE	0.004	0.002	0.098	0.1	0.05	0.00059
4,4'-DDT	0.004	0.002	0.0082	0.1	0.05	0.00059
Dicamba	0.01	--	0.01	0.25	1.0	--
Dieldrin	0.004	0.002	0.030	0.1	0.05	0.00014
Endosulfan	0.002	0.002	1.1	0.05	0.025	110
Endosulfan Sulfate	0.004	0.002	1.1	0.1	0.05	110
Endrin	0.004	0.002	0.004	0.1	0.05	0.76
Endrin Aldehyde	--	0.002	0.004	--	0.05	0.76
Endrin Ketone	0.004	0.002	0.004	0.1	0.05	0.76
gamma-BHC (Lindane)	0.002	0.002	0.010	0.05	0.025	0.019
Heptachlor	0.002	0.002	0.017	0.05	0.025	0.00021
Heptachlor Epoxide	0.002	0.002	0.017	0.05	0.025	0.00021
Isodrin	--	--	0.0039	--	0.05	--
MCPP	5.0	--	5.0	100	500	--
Methoxychlor	0.02	0.02	0.44	0.5	0.25	40

Table 3
Soil and Groundwater Cleanup Levels
Fill Site 6A
Presidio of San Francisco, California

Potential Contaminant of Concern	QAPP Analytical Reporting Limit Soil (mg/kg)	Laboratory Detection Limit Soil (mg/kg)	Soil Cleanup Level (mg/kg)	QAPP Analytical Reporting Limit Water (µg/L)	Laboratory Detection Limit Water (µg/L)	Groundwater Cleanup Level (µg/L)
			Residential - Colma Ecological - Special Status[1]			Drinking Water Surface Water[2]
Petroleum Hydrocarbons (Method 8015 Modified)						
TPH as gasoline (C7 - C12)	1.0	1	140 (100)[3]	50	50	443
TPH as diesel (C12-C24)	10	1	144 (115)[3]	50	50	880
TPH as fuel oil (C24-C36)	10	5	144	300	300	1,200
BTEX Compounds (Method 8260B)						
Benzene	0.005	0.005	0.6 (0.005)[3]	0.01	0.5	1
Ethylbenzene	0.005	0.005	15 (13)[3]	0.05	0.5	700
Toluene	0.010	0.005	3 (1)[3]	0.5	0.5	150
Total Xylenes	0.005	0.005	5.7	0.5	0.5	318

Notes
Shading indicates applicable cleanup levels.

[1] Cleanup levels for soil in the Ecological Special Status Species Zone are based on the most stringent of the values for protection of human health (residential land use), protection of ecologial receptors (ecological special status species), protection of ecological receptors (freshwater aquatic organisms), and maintaining drinking water standards in groundwater (soil less than or greater than 5 feet above groundwater, as applicable). In the case of metals, if the background metals concentration for Colma lithology is greater than the most stringest cleanup level, then the background concentration applies as the cleanup level. Source: Table 7-2 (non-petroleum compounds) and Table 7-5 (petroleum hydrocarbons and constituents) in Cleanup Levels Document (EKI, 2002).

[2] Cleanup levels for groundwater are based on the most stringent of the values for maintaining water quality criteria for drinking water and surface water. Source: Table 7-6 in Cleanup Levels Document (EKI, 2002).

[3] Values shown in parentheses applies if depth to groundwater at sampling location is less than 5 feet.

Table A-3-1
Results of TPH Analyses
Fill Site 6
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**443**	**880**	**1,200**
LF6GW100	03/17/06	< 50	< 50	NA
	04/04/05	< 50	< 50	NA
	03/15/04	< 50	NA	NA
	12/05/03	< 50	< 50	NA
DUP1205033A	12/05/03	< 50	< 50	NA
LF6GW100CL	12/05/03	< 50	< 48 UJ	NA
	08/20/03	< 50	< 50	NA
	06/09/03	< 50	< 50	NA
	03/19/03	< 50	< 50	NA
	12/06/02	< 50	< 50	NA
	09/05/02	< 50	< 50	NA
DUP0905023A	09/05/02	< 50	< 50	NA
	06/05/02	< 50	< 50	NA
	03/12/02	< 50	< 50	NA
DUP0312022A	03/12/02	< 50	< 50	NA
LF6GW100CL	03/12/02	< 50	< 50 UJ	NA
	12/04/01	< 50	< 50	NA
DUP1204011A	12/04/01	< 50	< 50	NA
LF6GW100CL	12/04/01	< 50	< 50	NA
	08/29/01	< 50	60 [3] Y,NJ	NA
	05/17/01	< 50	< 50	NA
	07/19/00	< 50	< 50	NA
LF6GW101	03/17/06	< 50	< 50	NA
	04/04/05	< 50	< 50	NA
	03/15/04	< 50	NA	NA
	12/05/03	< 50	< 50	NA
	08/20/03	< 50	< 50	NA
	06/10/03	< 50	< 50	NA
	03/19/03	< 50	< 50	NA
	12/06/02	< 50	< 50	NA
	09/04/02	< 50	< 50	NA
	06/05/02	< 50	< 50	NA
DUP0605021A	06/05/02	< 50	< 50	NA
	03/13/02	< 50	< 50	NA
	12/04/01	< 50	< 50	NA
	08/29/01	< 50	< 50 [3]	NA
	05/17/01	< 50	< 50	NA
	07/19/00	< 50	< 50	NA
LF6GW102	04/04/05	< 50	< 50	NA
	12/16/04	< 50	< 50	NA
	08/12/04	< 50	< 50	NA
	05/26/04	< 50	< 50	NA
	03/17/04	< 50	< 50	NA
	12/08/03	< 50	< 50	NA
	08/18/03	< 50	< 50	NA
	06/04/03	< 50	< 50	NA
	03/18/03	< 50	< 50	NA
DUP0318031A	03/18/03	< 50	< 50	NA
LF6GW102CL	03/18/03	< 50	< 50	NA

Table A-3-1
Results of TPH Analyses
Fill Site 6
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**443**	**880**	**1,200**
LF6GW102	12/11/02	< 50	< 50	NA
	09/05/02	< 50	< 50	NA
	06/06/02	< 50	< 50	NA
	03/13/02	< 50	< 50	NA
DUP0313021A	03/13/02	< 50	< 50	NA
	12/03/01	< 50	< 50	NA
DUP1203013A	12/03/01	< 50	< 50	NA
	09/07/01	< 50	57 [3] Y,NJ	NA
	05/18/01	< 50	< 50	NA
	07/19/00	< 50	< 50	NA
LF6GW103	05/23/06	< 50	76 Y	NA
	03/17/06	< 50	< 50	NA
	11/30/05	< 50	< 50	NA
DUP1130053B	11/30/05	< 50	< 50	NA
LF6GW103CL	11/30/05	< 50 U	< 50 U	NA
	08/31/05	< 50	< 50	NA
	05/25/05	< 50	< 50	NA
	04/05/05	< 50	< 50	NA
DUP0405053A	04/05/05	< 50	< 50	NA
LF6GW103CL	04/05/05	< 50 U	< 50 U	NA
	12/16/04	< 50	< 50	NA
	08/12/04	< 50	< 50	NA
DUP0812042A	08/12/04	< 50	< 50	NA
	05/26/04	< 50	< 50	NA
	03/15/04	< 50	NA	NA
	12/09/03	< 50	< 50	NA
	08/14/03	< 50	< 50	NA
	06/10/03	< 50	< 50	NA
	03/19/03	< 50	< 50	NA
	12/06/02	< 50	< 50	NA
	09/05/02	< 50	< 50	NA
	06/05/02	< 50	< 50	NA
	03/13/02	< 50	< 50	NA
	12/04/01	< 50	< 50	NA
	08/29/01	< 50	< 50 [3]	NA
	05/17/01	< 50	< 50	NA
	07/19/00	< 50	< 50	NA
LF6GW104	05/23/06	NA	< 50	< 300
	03/17/06	NA	< 50	< 300
	12/07/05	NA	< 50	< 300
LF6GW106	05/23/06	NA	< 50	< 300
	03/20/06	NA	< 50	< 300
	12/07/05	NA	< 50	< 300
231GW09	05/24/06	< 50	< 50	< 300
	03/15/06	< 50	< 50	< 300
	11/29/05	< 50	< 50	< 300
DUP1129052A	11/29/05	< 50	< 50	< 300
	08/31/05	< 50	< 50	< 300
	06/01/05	< 50	< 50	< 300
	04/04/05	< 50	< 50	< 300
	12/17/04	< 50	< 50	< 300
DUP1217042A	12/17/04	< 50	< 50	< 300
	08/12/04	< 50	< 50	< 300

Table A-3-1
Results of TPH Analyses
Fill Site 6
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**443**	**880**	**1,200**
231GW09	05/27/04	< 50	170 HY	< 300
DUP0527042C	05/27/04	< 50	< 50	< 300
231GW09CL	05/27/04	< 50	< 66	< 330
	03/18/04	< 50	< 50	< 300
	12/04/03	NA	NA	NA
	08/15/03	< 50	< 50	< 300
	06/10/03	NA	NA	NA

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - From Table 3 of the RAP (Treadwell & Rollo, 2003c).
3 - TPH analysis was not run using the silica gel cleanup method 3630A, although it was marked on the chain of custody.
µg/L - micrograms per liter
NA - Not analyzed
TPH - Total petroleum hydrocarbons
H - Heavier hydrocarbons contributed to the quantitation.
Y - Sample exhibits a fuel pattern that does not resemble the standard
Z - Sample exhibits unknown single peak or peaks.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-3-2
Results of General Chemistry, PAH, OCP, PCB, and Dissolved Oxygen Analyses
Fill Site 6
Presidio of San Francisco, California

Well Name	Sample Date	General Chemistry												PAHs					OCPs and PCBs			
		Dissolved Oxygen	**Alkalinity Total**	**Bicarbonate**	**Chloride**	**Fluoride**	**Nitrate as N**	**Nitrite as N**	**Sulfate**	**Sulfide**	**ORP**	**pH**	**Temperature**	**Benzo(a)-Anthracene**	**Benzo(b)-Fluoranthene**	**Chrysene**	**Fluoranthene**	**All Other PAHs**	**Aldrin**	**Dieldrin**	**Endosulfan I**	**All Other OCPs and PCBs**
	Analytical Method[1]	Field	E310.1	E310.1	E300.0	E300.0	E300.0	E300.0	E300.0	E300.0/ SW9056	Field	Field	Field	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8081/ SW8081A	SW8081/ SW8081A	SW8081/ SW8081A	SW8081/ SW8081A/ SW8082
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	--	--	--	--	--	--	--	--	--	--	--	**0.0044**	**0.0044**	**0.0044**	**300**	--	**0.00013**	**0.00014**	**110**	--
LF6GW100	03/17/06	0.93	310	310	34	0.11	0.42	< 0.05	37	0.2 J-	205	6.95	12.7	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.09 UJ	< 0.05	ND
	04/04/05	5.5	250	250	30	0.12	0.37	< 0.05	33	< 0.04 UJ	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05	< 0.1	< 0.05	ND
	03/15/04	2.6	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.2	< 0.1	< 0.4	ND	< 0.05	< 0.1	< 0.05	ND
	12/05/03	2	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05	< 0.1	< 0.05	ND
DUP1205033A	12/05/03	--	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05	< 0.1	< 0.05	ND
LF6GW100CL	12/05/03	--	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.049	< 0.097	< 0.049	< 0.097	ND	< 0.049	< 0.098 UJ	< 0.049	ND
	08/20/03	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.39	ND	< 0.05	< 0.09 UJ	< 0.05	ND
	06/09/03	4.7	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05	< 0.09 UJ	< 0.05	ND
	03/19/03	5.2	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	0.1	< 0.05	ND
	12/06/02	3.9	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.049	< 0.098 UJ	< 0.049	ND
	09/05/02	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05 UJ	< 0.1	< 0.05 UJ	ND
DUP0905023A	09/05/02	--	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05 UJ	< 0.1	< 0.05 UJ	ND
	06/05/02	1.7	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	0.11	0.26	0.17	0.17 J	ND	< 0.047	< 0.094	< 0.047	ND
	03/12/02	0.9	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.048 UJ	< 0.096	< 0.048 UJ	ND
DUP0312022A	03/12/02	--	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.048 UJ	< 0.096	< 0.048 UJ	ND
LF6GW100CL	03/12/02	--	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.1	< 0.1	< 0.15	ND	< 0.05	0.073 J-	< 0.05	ND
	12/04/01	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.048	< 0.096 UJ	< 0.048	ND
DUP1204011A	12/04/01	--	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.048	< 0.096 UJ	0.058	ND
LF6GW100CL	12/04/01	--	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.1	< 0.1	< 0.15	ND	< 0.06	< 0.06	< 0.06	ND
	08/29/01	2.8	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.049	< 0.097 UJ	< 0.049	ND
	05/17/01	6.1	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09 UJ	< 0.19 UJ	< 0.09 UJ	< 0.38 UJ	ND	< 0.049	< 0.097 UJ	< 0.049	ND
	07/19/00	4.1	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 9.6	< 9.6	< 9.6	< 9.6	ND	< 0.094	< 0.094	< 0.094	ND
LF6GW101	03/17/06	4.15	420	420	44	< 0.1	0.64	< 0.05	50	< 0.04 R	-249.2	5.76	14.4	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05	< 0.1	< 0.05	ND
	04/04/05	5.1	320	320	43	< 0.1	0.59	< 0.05	48	< 0.04 UJ	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05	< 0.1 UJ	< 0.05	ND
	03/15/04	2.2	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.39	ND	< 0.05	< 0.1 UJ	< 0.05	ND
	12/05/03	2.4	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05	< 0.1	< 0.05	ND
	08/20/03	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.09 UJ	< 0.05	ND
	06/10/03	4.9	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05	< 0.09 UJ	< 0.05	ND
	03/19/03	5	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.09	< 0.05	ND
	12/06/02	5.3	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.39	ND	< 0.049 UJ	< 0.098 UJ	< 0.049 UJ	ND
	09/04/02	1.4	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.047 UJ	< 0.094	< 0.047 UJ	ND
	06/05/02	0.9	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.047 UJ	< 0.094	< 0.047 UJ	ND
DUP0605021A	06/05/02	--	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.047 UJ	< 0.094	< 0.047 UJ	ND
	03/13/02	4.2	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.048 UJ	< 0.096	< 0.048 UJ	ND
	12/04/01	0.9	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.048	< 0.096 UJ	< 0.048	ND
	08/29/01	4.1	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.2	< 0.1	< 0.41	ND	< 0.049 UJ	< 0.097 UJ	< 0.049 UJ	ND
	05/17/01	5.7	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09 UJ	< 0.19 UJ	< 0.09 UJ	< 0.38 UJ	ND	< 0.049	< 0.097 UJ	< 0.049	ND
	07/19/00	4.5	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 9.5	< 9.5	< 9.5	< 9.5	ND	< 0.094	< 0.094	< 0.094	ND
LF6GW102	04/04/05	0.1	1,000	1,000	57	0.23	< 0.05	< 0.05	120	< 0.04 UJ	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05 UJ	< 0.1 UJ	< 0.05 UJ	ND
	12/16/04	0.6	740	740	33	0.15	< 0.05	< 0.05	3	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.1	< 0.05	ND
	08/12/04	0.29	660	660	30	0.15	0.05	< 0.05	6.3	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.09	< 0.05	ND
	05/26/04	0.52	580	580	31	0.14	< 0.05	< 0.05	11	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05 UJ	< 0.09	< 0.05 UJ	ND
	03/17/04	0.18	930	930	45	NA	< 0.05	< 0.05	68	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05	< 0.1 UJ	< 0.05	ND
	12/08/03	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.09	< 0.05	ND
	08/18/03	0.3	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.2	< 0.1	< 0.39	ND	< 0.05	< 0.09	< 0.05	ND
	06/04/03	0.3	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1 U	< 0.38	ND	< 0.05	< 0.1 UJ	< 0.05	ND

Table A-3-2
Results of General Chemistry, PAH, OCP, PCB, and Dissolved Oxygen Analyses
Fill Site 6
Presidio of San Francisco, California

Well Name	Sample Date	General Chemistry												PAHs					OCPs and PCBs			
		Dissolved Oxygen	**Alkalinity Total**	**Bicarbonate**	**Chloride**	**Fluoride**	**Nitrate as N**	**Nitrite as N**	**Sulfate**	**Sulfide**	**ORP**	**pH**	**Temperature**	**Benzo(a)-Anthracene**	**Benzo(b)-Fluoranthene**	**Chrysene**	**Fluoranthene**	**All Other PAHs**	**Aldrin**	**Dieldrin**	**Endosulfan I**	**All Other OCPs and PCBs**
	Analytical Method[1]	Field	E310.1	E310.1	E300.0	E300.0	E300.0	E300.0	E300.0	E300.0/ SW9056	Field	Field	Field	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8081/ SW8081A	SW8081/ SW8081A	SW8081/ SW8081A	SW8081/ SW8081A/ SW8082
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	--	--	--	--	--	--	--	--	--	--	--	**0.0044**	**0.0044**	**0.0044**	**300**	--	**0.00013**	**0.00014**	**110**	--
LF6GW102	03/18/03	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05 UJ	< 0.1	< 0.05 UJ	ND
DUP0318031A	03/18/03	--	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.09	< 0.05	ND
LF6GW102CL	03/18/03	--	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.05	< 0.1	< 0.05	< 0.1	ND	< 0.05 UJ	< 0.098 UJ	< 0.049	ND
	12/11/02	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.047 UJ	< 0.094	< 0.047 UJ	ND
	09/05/02	1	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.047 UJ	< 0.094	< 0.047 UJ	ND
	06/06/02	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.047 UJ	< 0.094	< 0.047 UJ	ND
	03/13/02	1.8	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.048 UJ	< 0.096	< 0.048 UJ	ND
DUP0313021A	03/13/02	--	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.048 UJ	< 0.096 UJ	< 0.048 UJ	ND
	12/03/01	1.4	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.048	< 0.095 UJ	< 0.048	ND
DUP1203013A	12/03/01	--	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.048	< 0.095 UJ	< 0.048	ND
	09/07/01	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.2	< 0.1	< 0.4	ND	< 0.048	< 0.096 UJ	< 0.048	ND
	05/18/01	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.17 UJ	< 0.33 UJ	< 0.17 UJ	< 0.67 UJ	ND	< 0.063	< 0.13 UJ	< 0.063	ND
	07/19/00	2.9	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 9.6	< 9.6	< 9.6	< 9.6	ND	< 0.094	< 0.094	< 0.094	ND
LF6GW103	05/23/06	1.3	310	310	41	< 0.1	3.2	< 0.05	90	NA	51.3	6.7	16.2	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.09	< 0.05	ND
	03/17/06	0.84	320	320	41	< 0.1	2.4	< 0.05	77	< 0.04 R	10.5	6.94	14.4	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.09 UJ	< 0.05	ND
	11/30/05	3.1	370 J+	370	49	< 0.1	2.9	< 0.05	110	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.39	ND	< 0.05	< 0.1 UJ	< 0.05	ND
DUP1130053B	11/30/05	--	350 J+	350	49	< 0.1	2.9	< 0.05	110	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.39	ND	< 0.05	< 0.1 UJ	< 0.05	ND
LF6GW103CL	11/30/05	--	321	321	48.2	< 1 U	2.98	< 0.1 U	109	NA	NR	NR	NR	NA	NA	NA	NA	ND	< 0.05 U	< 0.1 U UJ	< 0.05 U	ND
	08/31/05	0.5	330	330	52	< 0.1	2.8	< 0.05	150	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	**0.05 b**	< 0.1	< 0.05	ND
	05/25/05	0.9	330	330	52	< 0.1	2.8	< 0.05	150	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.39	ND	< 0.05	< 0.1	< 0.05	ND
	04/05/05	2.7	320	320	52	< 0.1	3	< 0.05	140	< 0.04	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05	< 0.1 UJ	< 0.05	ND
DUP0405053A	04/05/05	--	350	350	52	< 0.1	3.1	< 0.05	140	< 0.04	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05	< 0.1 UJ	< 0.05	ND
LF6GW103CL	04/05/05	--	326	326	51	< 0.3 U	3.17	< 0.02 U	147	0.053	NR	NR	NR	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	ND	< 0.05	< 0.1 U	< 0.05 U	ND
	12/16/04	0.7	330	330	71	< 0.1	3.8	< 0.05	150	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.1	< 0.05	ND
	08/12/04	0.33	270	270	78	< 0.1	3.8	< 0.05	130	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.1	< 0.05 UJ	ND
DUP0812042A	08/12/04	--	320	320	77	< 0.1	3.8	< 0.05	130	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05 UJ	< 0.09	< 0.05	ND
	05/26/04	0.69	300	300	84	< 0.1	3.6	< 0.05	150	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05 UJ	< 0.09	< 0.05 UJ	ND
	03/15/04	2.1	320	320	88	< 0.1	3.9	< 0.05	160	NA	NR	NR	NR	< 0.1	< 0.2	< 0.1	< 0.39	ND	< 0.05	< 0.1	< 0.05	ND
	12/09/03	2.7	330	330.0	95	< 0.1	4.3	< 0.05	160	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05	< 0.1	< 0.05	ND
	08/14/03	3.3	320	320	71	< 0.1	3.8 b,J-	< 0.05 UJ	170	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05	< 0.1	< 0.05	ND
	06/10/03	2.8	320	320	64	< 0.1	4.3	< 0.05	170	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.05	< 0.09 UJ	< 0.05	ND
	03/19/03	3.7	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05	< 0.09	< 0.05	ND
	12/06/02	5.5	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.39	ND	< 0.049	< 0.098	< 0.049	ND
	09/05/02	2.4	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.05 UJ	< 0.099	< 0.05 UJ	ND
	06/05/02	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.047 UJ	< 0.094	< 0.047 UJ	ND
	03/13/02	3.2	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.048 UJ	< 0.096	< 0.048 UJ	ND
	12/04/01	1.0	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	< 0.048	< 0.096 UJ	< 0.048	ND
	08/29/01	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09	< 0.19	< 0.09	< 0.38	ND	< 0.047 UJ	< 0.094 UJ	< 0.047 UJ	ND
	05/17/01	5.2	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 0.09 UJ	< 0.19 UJ	< 0.09 UJ	< 0.38 UJ	ND	< 0.048	< 0.096 UJ	< 0.048	ND
	07/19/00	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	< 9.7	< 9.7	< 9.7	< 9.7	ND	< 0.094	< 0.094	< 0.094	ND
LF6GW104	05/23/06	0.42	230	230	31	< 0.1	5.7	< 0.05	210	NA	75.3	6.8	17.3	< 0.09	< 0.19	< 0.09	< 0.38	NA	NA	NA	NA	NA
	03/17/06	2.41	260	260	33	< 0.1	6.9	< 0.05	270	< 0.04 R	240	5.75	15.8	< 0.1	< 0.19	< 0.1	< 0.38	ND	NA	NA	NA	NA
	12/07/05	0.7	330	330	82	< 0.1	20	< 0.05	190	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.38	ND	NA	NA	NA	NA
LF6GW105	05/23/06	0.54	280	280	89	< 0.1	4.8	< 0.05	110	NA	92.3	6.7	18.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/20/06	0.52	310	310	95	< 0.1	4.6	< 0.05	110	< 0.04 R	171.1	6.83	16	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/07/05	0.9	310	310	110	< 0.1	5.3	< 0.05	120	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
LF6GW106	05/23/06	0.7	250	250	62	< 0.1	8.7	< 0.05	120	NA	103.5	6.9	16.9	< 0.09	< 0.19	< 0.09	< 0.38	NA	NA	NA	NA	NA
	03/20/06	3.53	340	340	90	< 0.1	4.4	< 0.05	150	< 0.04 R	252	6.95	15.2	< 0.1	< 0.19	< 0.19	< 0.97	ND	NA	NA	NA	NA
	12/07/05	0.7	250	250	80	< 0.1	3.3	< 0.05	89	NA	NR	NR	NR	< 0.1	< 0.19	< 0.1	< 0.39	ND	NA	NA	NA	NA
231GW09	05/24/06	2.64	230	230	41	< 0.1	11	< 0.05	68	< 0.04 R	33.7	6.5	16.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/15/06	2.41	110	110	22	< 0.1	4.6	< 0.05	35	< 0.04	204	6.22	16.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/29/05	0.3	220 J+	220	48	< 0.1	6.6	< 0.05	75	< 0.04	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP1129052A	11/29/05	--	210 J+	210	48	< 0.1	6.7	< 0.05	76	< 0.04	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/05	0.7	220	220	48	< 0.1	5.5	< 0.05	75	< 0.04	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/01/05	1.9	210	210	48	0.11	5.5	< 0.05	77	0.04	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/04/05	2.1	180	180	51	< 0.1	5.5	< 0.05	79	0.11 J-	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/17/04	0.9	120	120	52	< 0.1	5.8	< 0.05	81	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP1217042A	12/17/04	--	190	190	51	< 0.1	5.6	< 0.05	79	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/12/04	0.82	250	250	50	< 0.1	5.8	< 0.05	77	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table A-3-2
Results of General Chemistry, PAH, OCP, PCB, and Dissolved Oxygen Analyses
Fill Site 6
Presidio of San Francisco, California

Well Name	Sample Date	General Chemistry												PAHs					OCPs and PCBs			
		Dissolved Oxygen	**Alkalinity Total**	**Bicarbonate**	**Chloride**	**Fluoride**	**Nitrate as N**	**Nitrite as N**	**Sulfate**	**Sulfide**	**ORP**	**pH**	**Temperature**	**Benzo(a)-Anthracene**	**Benzo(b)-Fluoranthene**	**Chrysene**	**Fluoranthene**	**All Other PAHs**	**Aldrin**	**Dieldrin**	**Endosulfan I**	**All Other OCPs and PCBs**
	Analytical Method[1]	Field	E310.1	E310.1	E300.0	E300.0	E300.0	E300.0	E300.0	E300.0/ SW9056	Field	Field	Field	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8081/ SW8081A	SW8081/ SW8081A	SW8081/ SW8081A	SW8081/ SW8081A/ SW8082
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**0.0044**	**0.0044**	**0.0044**	**300**	**--**	**0.00013**	**0.00014**	**110**	**--**
231GW09	05/27/04	0.49	310	310	51	< 0.1	6	< 0.05	81	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP0527042C	05/27/04	NA	250	250	51	< 0.1	5.7	< 0.05	80	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
231GW09CL	05/27/04	NA	210	210	52 D	0.11	7.1 D	< 0.05	83 D	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/18/04	0.7	210	210	56	< 0.1	6.5	< 0.05	85	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/04/03	1.6	220	220	53	< 0.1	6.9	< 0.05	81	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/15/03	1.7	190	190	51	< 0.1	7.7 b,J-	< 0.05 UJ	91	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/10/03	2.1	250	250	57	< 0.1	9.1	< 0.05	88	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/17/03	5	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/04/02	1.9	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/30/02	4.4	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/30/02	2.8	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/07/02	2.2	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/29/01	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/30/01	3.9	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/09/01	4.4	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/14/99	4.5	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/13/99	4.23	183	183	55.8	NA	33.6	NA	69	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/14/98	4.73	181	181	49	NA	28.2	NA	65	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/15/98	6.62	210	210	49.9 D	NA	32.2 D	NA	68.6 D	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/20/98	4.05	250	250	75.1 D	NA	45.6 D	NA	92.8 D	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/28/98	3.47	190	190	62.4 D	NA	22.3 D	NA	73.8 D	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/23/97	2.08	< 165	< 165	47.5 D	NA	24.5 D	NA	67.4 D	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/24/97	3.72	172	172	42.4 D	NA	29.1 D	NA	75.9 D	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/22/97	3.96	195	195	49.8 D	NA	29.8 D	NA	69.2 D	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/28/97	1.39	197	197	53.9 D	NA	22.5 D	NA	67 D	NA	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - From Table 3 of the RAP (Treadwell & Rollo, 2003c). RAP cleanup levels only apply to wells LF6GW103, LF6GW104, LF6GW105, and 231GW09.
µg/L - micrograms per liter
mg/L - milligrams per liter
C° - degrees centigrade
mV - millivolts
ND - Not detected
NR - Not reported
OCPs - Organochlorine pesticides
ORP - Oxidation-reduction potential
PAHs - Polycyclic aromatic hydrocarbons
PCBs - Polychlorinated biphenyls
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.
Bold - indicates value above cleanup levels (see note 2 above).
-- Cleanup level not established
NA - Not analyzed
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.

Table A-3-3
Results of Dissolved Metals Analyses
Fill Site 6
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [2]		**--**	**6**	**10**	**10**	**1,000**	**4**	**1.1**	**--**	**50**	**--**	**11.8**	**--**	**3.2**	**--**	**--**	**0.012**	**100**	**--**	**5**	**4.1**	**--**	**1.7**	**--**	**106**	**--**
LF6GW100	03/17/06	< 100	< 1	< 5	NA	18	< 2	< 1	31,000	< 10	< 10	1.3	< 100	< 3	41,000 J	< 10	< 0.2	< 20	810 J-	< 5	< 1	27,000	< 1	< 10	< 20	350
	04/04/05	< 100	< 1	< 5	0.792	16	< 2	< 1	31,000	< 10	< 10	1.5	130	< 3	43,000	< 10	< 0.2	< 20	660	< 5	< 1	32,000	**5**	< 10	< 20	330
	03/15/04	< 100	< 1	< 5	NA	21	< 2	< 1	39,000	< 10	< 10	2.3	< 100	< 3	55,000	< 10	< 0.2	< 20	710	< 5	< 1	37,000	< 1	14	< 20	510
	12/05/03	< 100	2.3	< 5	NA	18	< 2	< 1	29,000	< 10	< 10	1.1	100	< 3	50,000	< 10	< 0.2	< 20	570	< 5	< 1	30,000	< 1	11	< 20	450
DUP1205033A	12/05/03	< 100	< 1	< 5	NA	17	< 2	< 1	30,000	< 10	< 10	< 1	110	< 3	51,000	< 10	< 0.2	< 20	560	< 5	< 1	31,000	< 1	11	< 20	430
LF6GW100CL	12/05/03	< 1,000	< 5	5.9	NA	15	< 1	< 1	37,000	< 10	< 7	< 10	< 500	< 3	50,000	< 5	< 0.2	< 10	< 1,200	< 5	< 1	32,000	< 2	11	< 20	380
	08/20/03	< 100	< 1	< 5	NA	17	< 2	< 1	35,000	< 10	< 10	2.1	390	< 3	51,000	< 10	< 0.2	< 20	510	< 5	< 1 UJ	30,000	< 1	11	< 20 UJ	480
	06/09/03	< 100	1.2	< 5	NA	15	< 2	< 1	37,000	< 10	< 10	1.1	< 100	< 3	52,000	< 10	< 0.2	< 20	< 500	< 5	< 1	29,000	< 1	11	< 20	460
	03/19/03	< 100 UJ	< 1	< 1	NA	12	< 1	< 1	42,000 J	5.2 J	< 1	1.2	< 100	< 3	64,000 J	< 10 UJ	< 0.2	6	560	< 5	< 1 UJ	39,000 J	< 1	< 10	< 10	490
	12/06/02	< 100	< 1	< 1	NA	14	< 1	< 1	34,000	8.9	< 1	1.2	110	< 3	49,000	< 10 UJ	< 0.2	6.6	580	< 5	< 1 UJ	28,000	< 1	11	< 10	270
	09/05/02	< 100	1	1	NA	410	< 1	< 1	36,000	8.3	< 1	1.4	< 100	< 3	52,000	< 10	< 0.2	6.3	750	< 5	< 1 UJ	32,000	< 1	11	**200**	430 J-
DUP0905023A	09/05/02	< 100	< 1	< 1	NA	250	< 1	< 1	35,000	8	< 1	1.3	< 100	< 3	52,000	< 10	< 0.2	6.1	670	< 5	< 1 UJ	31,000	< 1	11	65	400 J-
	06/05/02	< 100	< 1	1.2	NA	520	< 1	< 1	37,000	6.7	< 1	1.7	120	< 3	55,000	< 10	< 0.2	6.1	830	< 5	< 1	34,000	< 1	< 10	**220**	350
	03/12/02	< 100	< 1	1.2	NA	450	< 1	< 1	37,000	4.2	< 1	1.7	< 100	< 3	57,000	< 10	< 0.2	6.2	720	< 5	< 1 UJ	37,000	< 1	< 10	**170**	400
DUP0312022A	03/12/02	< 100	< 1	1.2	NA	240	< 1	< 1	35,000	4.5	< 1	1.7	< 100	< 3	55,000	< 10	< 0.2	6.4	730	< 5	< 1 UJ	36,000	< 1	< 10	48	390
LF6GW100CL	03/12/02	< 200	2.2	< 2	NA	490	< 2	< 1	32,000	3.2	0.2 J	2.3 B	< 200	< 5	46,000	< 5	NA	6.3	< 1,000	< 5	< 1	36,000	< 5	9.3	**170**	580 J-
	12/04/01	< 100	< 1	1.2	NA	290	< 1	< 1	47,000	9.4 J	< 1	2.8	< 100	< 3	71,000	< 10	< 0.2	9 J	1,400	< 5	< 1	40,000	< 1	< 10	71	510
DUP1204011A	12/04/01	< 100	< 1	1.4	NA	150	< 1	< 1	50,000	9.5 J	< 1	2.7	< 100	< 3	74,000	< 10	< 0.2	8.9 J	1,400	< 5	< 1	42,000	< 1	< 10	41	500
LF6GW100CL	12/04/01	< 200	1.1 J	1.9 BJ	NA	540	< 1	< 1	44,000	9.1 B	1.3	< 5	< 200	< 5	63,000	< 5	< 0.2	9.3	1,100	< 5	< 1	41,000	< 1	8.6	**160**	530
	08/29/01	110	1.9	1.7	NA	770 J+	< 1	< 1	39,000	6.2	< 1	2.2	310	< 3	62,000	< 10	< 0.2	7.3	< 500	< 5	< 1 UJ	37,000	< 1	< 10	**330**	450
	05/17/01	< 2,000	< 20	1.4	NA	40	< 20	< 20	< 500 R	7.2 J	< 20	1.3	360	< 60	230,000	13	< 0.2	7	820 J	< 5	< 20	120,000	< 20	11	20	430
	07/19/00	NA	< 60	< 5	NA	< 10	< 2	< 5	NA	< 10	< 20	< 10	NA	< 3	NA	NA	< 0.2	< 20	NA	< 5	< 5	NA	< 5	< 10	< 20	NA
LF6GW101	03/17/06	< 100	< 1	< 5	NA	28	< 2	< 1	39,000	17	< 10	< 1	< 100	< 3	57,000 J	< 10	< 0.2	< 20	< 500 UJ	< 5	< 1	52,000	< 1	11	< 20	600
	04/04/05	< 100	< 1	< 5	1.22	26	< 2	< 1	37,000	20	< 10	< 1	< 100	< 3	54,000	< 10	< 0.2	< 20	< 500	< 5	< 1	65,000	< 1	10	< 20	460
	03/15/04	< 100	< 1	< 5	NA	20	< 2	< 1	33,000	21	< 10	< 1	< 100	< 3	49,000	< 10	< 0.2	< 20	620	< 5	< 1	62,000	< 1	15	< 20	530
	12/05/03	< 100	2.4	< 5	NA	17	< 2	< 1	34,000	18	< 10	< 1	< 100	< 3	51,000	< 10	< 0.2	< 20	690	< 5	< 1	62,000	< 1	11	< 20	500
	08/20/03	< 100	1.6	< 5	NA	12	< 2	< 1	31,000	17	< 10	< 1	250	< 3	44,000	< 10	< 0.2	< 20	580	< 5	< 1 UJ	62,000	< 1	11	< 20 UJ	540
	06/10/03	< 100	< 1	< 5	NA	14	< 2	< 1	31,000	18	< 10	< 1	< 100	< 3	43,000	< 10	< 0.2	< 20	570	< 5	< 1	61,000	< 1	11	< 20	490
	03/19/03	< 100 UJ	< 1	1.3	NA	12	< 1	< 1	39,000 J	18 J	< 1	< 1	< 100	< 3	58,000 J	< 10 UJ	< 0.2	3.2	630	< 5	< 1 UJ	80,000 J	< 1	11	< 10	440
	12/06/02	< 100	< 1	1.5	NA	< 10	< 1	< 1	29,000	16	< 1	1	< 100	< 3	40,000	< 10 UJ	< 0.2	3	760	< 5	< 1 UJ	55,000	< 1	12	< 10	400
	09/04/02	< 100	2	1.6	NA	580	< 1	< 1	32,000	15 J	< 1	1.2	< 100	< 3	44,000	< 10	< 0.2	3.1	1,100	< 5	< 1 UJ	64,000	< 1	11	**250**	410
	06/05/02	< 100	< 1	1.8	NA	300	< 1	< 1	30,000	22	< 1	1.1	110	< 3	41,000	< 10	< 0.2	2.6	940	< 5	< 1	65,000	< 1	12	73	560
DUP0605021A	06/05/02	< 100	< 1	1.8	NA	520	< 1	< 1	30,000	21	< 1	< 1	100	< 3	40,000	< 10	< 0.2	2.5	970	< 5	< 1	66,000	< 1	12	**210**	450
	03/13/02	< 100	< 1	2.2	NA	390	< 1	< 1	31,000	20	< 1	< 1	< 100	< 3	39,000	< 10	< 0.2	2.2	1,100	< 5	< 1 UJ	61,000	< 1	10	**140**	400
	12/04/01	< 100	1.8	2.1	NA	570	< 1	< 1	37,000	23 J	< 1	2.1	< 100	< 3	43,000	< 10	< 0.2	3.9	1,400	< 5	< 1	75,000	< 1	13	**200**	500
	08/29/01	< 100	1.1	3	NA	45 J+	< 1	< 1	36,000	20	< 1	2.3	130	< 3	42,000	< 10	< 0.2	2.7	1,300	< 5	< 1 UJ	67,000	< 1	12	36	430
	05/17/01	< 2,000	< 20	2.6	NA	36	< 20	< 20	< 500 R	20 J	< 20	< 20	240	< 60	150,000	< 200	< 0.2	2.4	1,900 J	< 5	< 20	250,000	< 20	11	17	460
	07/19/00	NA	< 60	< 5	NA	15	< 2	< 5	NA	12	< 20	< 10	NA	< 3	NA	NA	< 0.2	< 20	NA	< 5	< 5	NA	< 5	< 10	< 20	NA
LF6GW102	04/04/05	< 100	< 1	< 5	NA	330	< 2	< 1	150,000	< 10	< 10	< 1	12,000	< 3	120,000	8,300	< 0.2	< 20	2,600	< 5	< 1	110,000	< 1	< 10	< 20	1,190
	12/16/04	< 100	< 1	< 5	NA	270	< 2	< 1	98,000	< 10	< 10	< 1	18,000	< 3	88,000	7,200	< 0.2	< 20	3,300	< 5	< 1	63,000	**2.7**	< 10	< 20	740
	08/12/04	< 100	< 1	< 5	NA	300	< 2	< 1	98,000	< 10	< 10	< 1	21,000	< 3	84,000	8,200	< 0.2	< 20	3,100	< 5	< 1	62,000	< 1	< 10	< 20	690
	05/26/04	< 100	< 1	< 5	NA	< 500	< 2	< 1	82,000	< 10	< 10	< 1	15,000	< 3	84,000	6,500	< 0.2	< 20	2,800	< 5	< 1	54,000	< 1	< 10	< 20	610
	03/17/04	< 100	< 1	< 5	NA	360	< 2	< 1	160,000	< 10	< 10	< 1	13,000	< 3	120,000	8,000	< 0.2	< 20	2,700	< 5	< 1 UJ	110,000	< 1	< 10	< 20	1,100
	12/08/03	< 100	1.2	< 5	NA	190	< 2	< 1	67,000	< 10	< 10	< 1	13,000	< 3	73,000	4,600	< 0.2	< 20	1,900	< 5	< 1 UJ	46,000	< 1	< 10	< 20	450

Table A-3-3
Results of Dissolved Metals Analyses
Fill Site 6
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [2]		**--**	**6**	**10**	**10**	**1,000**	**4**	**1.1**	**--**	**50**	**--**	**11.8**	**--**	**3.2**	**--**	**--**	**0.012**	**100**	**--**	**5**	**4.1**	**--**	**1.7**	**--**	**106**	**--**
LF6GW102	08/18/03	< 100	< 1	< 5	0.851 J	200	< 2	< 1	66,000	< 10	< 10	< 1	11,000	< 3	74,000	4,500	< 0.2	< 20	1,800	< 5	< 1 UJ	48,000	< 1	< 10	< 20 UJ	560
	06/04/03	< 100	< 1	< 5	NA	170	< 2	< 1	58,000	< 10	< 10	< 1	9,800	< 3	69,000	3,900	< 0.2	< 20	1,700	< 5	< 1 UJ	43,000	< 1	< 10	< 20	560
	03/18/03	< 100 UJ	1.2	3.4	NA	300	1.1	1	110,000 J	4.5 J	1.1	1.2	12,000	< 3	110,000 J	5,800 J	< 0.2	3.7	2,500	< 5	< 1 UJ	86,000 J	< 1	< 10	< 10	690
DUP0318031A	03/18/03	< 100 UJ	< 1	2.7	NA	290	< 1	< 1	110,000 J	4.4 J	< 1	< 1	12,000	< 3	110,000 J	5,600 J	< 0.2	2.9	2,400	< 5	< 1 UJ	75,000 J	< 1	< 10	< 10	680
LF6GW102CL	03/18/03	< 100	< 5	< 2	NA	240	< 1	< 1	83,000	< 5	< 1	< 5	14,000	< 3	81,000	5,900	< 0.2 UJ	< 5	2,200	< 5	< 1	63,000	< 2	< 10	< 10	720
	12/11/02	< 100	< 1	2.9	NA	240 J+	< 1	< 1	81,000 J	< 1	< 1	< 1	14,000	< 3	81,000 J	6,300	< 0.2	2.7	2,500 J	< 5	< 1 UJ	53,000 J	< 1	< 10	< 10	620
	09/05/02	< 100	< 1	3.3	NA	540	< 1	< 1	82,000	5.4	< 1	< 1	16,000	< 3	81,000	6,300	< 0.2	2.5	2,500	< 5	< 1 UJ	59,000	< 1	< 10	52	670 J-
	06/06/02	< 100	< 1	3.1	NA	520	< 1	< 1	99,000	4.1	< 1	< 1	14,000	< 3	76,000	5,800	< 0.2	1.9	2,500	< 5	< 1	58,000	< 1	< 10	61	680
	03/13/02	< 100	2.2	2.7	NA	870	< 1	< 1	110,000	1.5	< 1	< 1	10,000	< 3	99,000	6,200	< 0.2	4.1	2,600	< 5	< 1 UJ	88,000	< 1	< 10	**190**	820
DUP0313021A	03/13/02	< 100	< 1	2.6	NA	380	< 1	< 1	110,000	1.5	< 1	< 1	10,000	< 3	95,000	6,600	< 0.2	3.9	2,400	< 5	< 1 UJ	81,000	< 1	< 10	20	840
	12/03/01	< 100	< 1	2.8	NA	290	< 1	< 1	74,000	1.7	< 1	< 1	14,000	< 3	88,000	5,300	< 0.2	4.7	2,400	< 5	< 1	58,000	< 1	< 10	12	630
DUP1203013A	12/03/01	< 100	< 1	2.8	NA	520	< 1	< 1	75,000	1.2	< 1	1.1	14,000	< 3	93,000	5,400	< 0.2	3.9	2,400	< 5	< 1	61,000	< 1	< 10	52	640
	09/07/01	< 100	< 1	2.5	NA	560 J+	< 1	< 1	83,000	< 1	< 1	< 1	14,000	< 3	89,000	5,900	< 0.2	5	2,000	< 5	< 1 UJ	62,000	< 1	< 10	84	630
	05/18/01	< 100	1.5	2.9	NA	450	< 1	< 1	81,000	1	< 1	1.3	14,000	< 3	77,000	6,300	< 0.2	5.4	2,500	< 5	< 1 UJ	62,000	< 1	< 10	62	710
	07/19/00	NA	< 60	< 5	NA	110	< 2	< 5	NA	< 10	< 20	< 10	NA	< 3	NA	NA	< 0.2	< 20	NA	**6.2**	< 5	NA	< 5	< 10	< 20	NA
LF6GW103	05/23/06	< 100 UJ	< 1	< 5	NA	69	< 2	< 1	35,000	27	< 10	< 1	< 100	< 3	53,000	< 10	< 0.2	< 20	630	< 5	< 1	68,000	< 1	< 10	< 20	470
	03/17/06	< 100	< 1	< 5	NA	61	< 2	< 1	31,000	26	< 10	< 1	< 100	< 3	49,000 J	< 10	< 0.2	< 20	< 500 UJ	< 5	< 1	59,000	< 1	< 10	< 20	430
	11/30/05	< 100	< 1	< 5	NA	71	< 2	< 1	37,000	29 J	< 10	< 1	160	< 3	59,000	< 10	< 0.2	< 20	530	< 5	< 1	70,000	< 1	< 10	< 20	570
DUP1130053B	11/30/05	< 100	< 1	< 5	NA	73	< 2	< 1	40,000	28 J	< 10	< 1	160	< 3	66,000	< 10	< 0.2	< 20	570	< 5	< 1	79,000	< 1	< 10	< 20	560
LF6GW103CL	11/30/05	< 100 U	< 2 U	< 2 U	NA	82	< 1 U	< 1 U	45,000	37	< 1 U	< 2 U	< 100 U	< 1 U	65,000	< 10 U	< 0.2 U	5.7	< 5,000 UN	< 2 U	< 1 U	74,000	< 1 U	11	< 20 U	602
	08/31/05	< 100	< 1	< 5	NA	87	< 2	< 1	45,000	29	< 10	< 1	360	< 3	67,000	< 10	< 0.2	< 20	580 J	< 5	< 1	77,000	< 1	< 10	< 20	660
	05/25/05	< 100 UJ	< 1	< 5	0.386 J	88 J	< 2	< 1	46,000	27	< 10	< 1	< 100	< 3	68,000	< 10	< 0.2	< 20	600	< 5	< 1	75,000	< 1	< 10	< 20	670
	04/05/05	< 100	< 1	< 5	NA	79	< 2	< 1	43,000 J	28	< 10	< 1	120	< 3	57,000	< 10 UJ	< 0.2	< 20	500	< 5	< 1	65,000	< 1	< 10	< 20	590
DUP0405053A	04/05/05	< 100	< 1	< 5	0.387 J	82	< 2	< 1	45,000 J	28	< 10	< 1	150	< 3	59,000	< 10 UJ	< 0.2	< 20	540	< 5	< 1	68,000	< 1	< 10	< 20	600
LF6GW103CL	04/05/05	< 100 U	< 2 U	< 2 U	NA	93.5	< 1 U	< 1 U	47,700	31.3	< 1 U	< 2 U	< 100 U	< 1 U	75,400	< 10 U	< 0.2 U	5.3	< 5,000 U	< 2 U	< 1 U	87,300	< 1 U	< 10 U	< 20 U	686
	12/16/04	< 100	< 1	< 5	NA	84	< 2	< 1	43,000	32	< 10	< 1	130	< 3	67,000	< 10	< 0.2	< 20	540	< 5	< 1	74,000	1	< 10	< 20	630
	08/12/04	< 100	< 1	< 5	NA	92	< 2	< 1	46,000	32	< 10	< 1	< 100	< 3	70,000	19	< 0.2	< 20	580	< 5	< 1	77,000	< 1	< 10	< 20	740
DUP0812042A	08/12/04	< 100	< 1	< 5	NA	95	< 2	< 1	50,000	33	< 10	< 1	140	< 3	73,000	< 10	< 0.2	< 20	620	< 5	< 1	80,000	< 1	< 10	< 20	660
	05/26/04	< 100	< 1	< 5	NA	91	< 2	< 1	50,000	29	< 10	< 1	110	< 3	75,000	< 10	< 0.2	< 20	560	< 5	< 1	83,000	< 1	< 10	< 20	760
	03/15/04	< 100	< 1	< 5	NA	92	< 2	< 1	47,000	31	< 10	5.5	< 100	< 3	74,000	< 10	< 0.2	< 20	620	< 5	< 1	79,000	< 1	12	< 20	730
	12/09/03	< 100	1.6	< 5	NA	100	< 2	< 1	53,000	32	< 10	1.7	330	< 3	80,000	< 10	< 0.2	< 20	620	< 5	< 1 UJ	85,000	< 1	< 10	< 20	610
	08/14/03	< 100	< 1	< 5	NA	90	< 2	< 1	49,000	33	< 10	< 1	210	< 3	73,000	< 10	< 0.2	< 20	570	< 5	< 1 UJ	78,000	< 1	< 10	< 20	710
	06/10/03	< 100	< 1	< 5	NA	77	< 2	< 1	49,000	28	< 10	< 1	< 100	< 3	74,000	< 10	< 0.2	< 20	550	< 5	< 1	76,000	< 1	< 10	< 20	630
	03/19/03	< 100 UJ	< 1	< 1	NA	76	< 1	< 1	59,000 J	28 J	< 1	< 1	< 100	< 3	95,000 J	< 10 UJ	< 0.2	6.8	600	< 5	< 1 UJ	100,000 J	< 1	< 10	< 10	740
	12/06/02	< 100	< 1	< 1	NA	86	< 1	< 1	46,000	33	< 1	1.1	130	< 3	69,000	< 10 UJ	< 0.2	7.2	570	< 5	< 1 UJ	76,000	< 1	< 10	< 10	650
	09/05/02	< 100	1.4	< 1	NA	410	< 1	< 1	47,000	34	< 1	< 1	100	< 3	73,000	< 10	< 0.2	7.1	770	< 5	< 1 UJ	82,000	< 1	< 10	**130**	630 J-
	06/05/02	< 100	< 1	< 1	NA	400	< 1	< 1	48,000	34	< 1	< 1	180	< 3	76,000	< 10	< 0.2	7.1	780	< 5	< 1	82,000	< 1	< 10	**130**	640
	03/13/02	< 100	< 1	< 1	NA	410	< 1	< 1	48,000	30	< 1	< 1	140	< 3	75,000	< 10	< 0.2	6.7	780	< 5	< 1 UJ	84,000	< 1	< 10	96	650
	12/04/01	< 100	1.6	< 1	NA	620	< 1	< 1	53,000	37 J	< 1	9.9	< 100	< 3	80,000	< 10	< 0.2	9.5 J	1,300	< 5	< 1	92,000	< 1	< 10	**260**	680
	08/29/01	< 100	1	< 1	NA	750 J+	< 1	< 1	44,000	36	< 1	1.5	200	< 3	74,000	< 10	< 0.2	7.1	940	< 5	< 1 UJ	82,000	< 1	< 10	**170**	630
	05/17/01	< 100	< 1	< 1	NA	170	< 1	< 1	< 500 R	35 J	< 1	< 1	330	< 3	270,000	< 10	< 0.2	6.5	690 J	< 5	< 1	300,000	< 1	< 10	20	610
	07/19/00	NA	< 60	< 5	NA	58	< 2	< 5	NA	27	< 20	< 10	NA	< 3	NA	NA	< 0.2	< 20	NA	< 5	< 5	NA	< 5	< 10	< 20	NA
LF6GW104	05/23/06	< 100 UJ	< 1	< 5	NA	37	< 2	< 1	36,000	12	< 10	2.9	< 100	< 3	56,000	13	< 0.2	< 20	610	< 5	< 1	69,000	< 1	< 10	< 20	700
	03/17/06	< 100	< 1	< 5	NA	46	< 2	< 1	41,000	18	< 10	< 1	< 100	< 3	65,000 J	10	< 0.2	< 20	< 500 UJ	< 5	< 1	69,000	< 1	< 10	< 20	770
	12/07/05	< 100	< 1	< 5	NA	33	< 2	< 1	49,000	32	< 10	< 1	320	< 3	85,000	19	< 0.2	< 20	1,800	< 5	< 1	84,000	< 1	< 10	< 20	810
LF6GW105	05/23/06	< 100 UJ	< 1	< 5	NA	46	< 2	< 1	40,000	34	< 10	< 1	< 100	< 3	61,000	< 10	< 0.2	< 20	780	< 5	< 1	85,000	< 1	< 10	< 20	750
	03/20/06	< 100	< 1	< 5	NA	51	< 2	< 1	45,000	34	< 10	< 1	< 100	< 3	67,000	< 10	< 0.2	< 20	700	< 5	< 1	85,000	< 1	< 10	< 20	610
	12/07/05	< 100	< 1	< 5	NA	43	< 2	< 1	41,000	40	< 10	< 1	280	< 3	65,000	< 10	< 0.2	< 20	1,100	< 5	< 1	88,000	< 1	< 10	< 20	690

Table A-3-3
Results of Dissolved Metals Analyses
Fill Site 6
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [2]		**--**	**6**	**10**	**10**	**1,000**	**4**	**1.1**	**--**	**50**	**--**	**11.8**	**--**	**3.2**	**--**	**--**	**0.012**	**100**	**--**	**5**	**4.1**	**--**	**1.7**	**--**	**106**	**--**
LF6GW106	05/23/06	< 100 UJ	< 1	< 5	NA	32	< 2	< 1	35,000	21	< 10	< 1	< 100	< 3	57,000	< 10	< 0.2	< 20	730	< 5	< 1	82,000	< 1	< 10	< 20	480
	03/20/06	< 100	< 1	< 5	NA	36	< 2	< 1	42,000	23	< 10	< 1	< 100	< 3	68,000	< 10	< 0.2	< 20	710	< 5	< 1	82,000	< 1	< 10	< 20	600
	12/07/05	< 100	< 1	< 5	NA	22	< 2	< 1	29,000	24	< 10	< 1	230	< 3	54,000	11	< 0.2	< 20	900	< 5	< 1	64,000	< 1	< 10	< 20	770
231GW09	05/24/06	< 100	< 1	< 5	NA	61	< 2	< 1	27,000	24	< 10	< 1	< 100	< 3	48,000	< 10	< 0.2	43	< 500	< 5	< 1	76,000	< 1	< 10	< 20	480
	03/15/06	< 100	< 1	< 5	NA	31	< 2	< 1	15,000	15	< 10	< 1	< 100	< 3	24,000	< 10	< 0.2	29	< 500	< 5	< 1	42,000	< 1	< 10	< 20	320 J
	11/29/05	< 100	< 1	< 5	NA	49	< 2	< 1	22,000	23 J	< 10	< 1	< 100	< 3	39,000	< 10	< 0.2	< 20	< 500	< 5	< 1	63,000	< 1	< 10	< 20	470
DUP1129052A	11/29/05	< 100	< 1	< 5	NA	49	< 2	< 1	24,000	23 J	< 10	1.1	< 100	< 3	40,000	< 10	< 0.2	< 20	< 500	< 5	< 1	64,000	< 1	< 10	< 20	540
	08/31/05 [3]	NA	NA	NA	0.405 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA	480
	06/01/05	< 100	< 1	< 5	0.371	48 J	< 2	< 1	28,000	20	< 10	< 1	< 100	< 3	41,000	< 10	< 0.2	40	< 500 UJ	< 5	< 1	63,000	< 1	< 10	< 20	460
	04/04/05	< 100	< 1	< 5	0.344	46	< 2	< 1	25,000	19	< 10	< 1	< 100	< 3	41,000	< 10	< 0.2	85	< 500	< 5	< 1	62,000	1.2	< 10	< 20	450
	12/17/04	< 100	< 1	< 5	NA	53	< 2	< 1	25,000	21	< 10	< 1	< 100	< 3	42,000	< 10	< 0.2	36	< 500	< 5	< 1	65,000	< 1	< 10	< 20	490
DUP1217042A	12/17/04	< 100	< 1	< 5	NA	54	< 2	< 1	26,000	22	< 10	< 1	< 100	< 3	43,000	< 10	< 0.2	36	< 500	< 5	< 1	67,000	< 1	< 10	< 20	470
	08/12/04	< 100	< 1	< 5	NA	58	< 2	< 1	29,000	23	< 10	< 1 U	110	< 3	47,000	< 10	< 0.2	63	< 500	< 5	< 1	72,000	< 1	< 10	< 20	430
	05/27/04	< 100	< 1	< 5	NA	52	< 2	< 1	27,000	23	< 10	< 1	< 100	< 3	45,000	12	< 0.2	27	< 500	< 5	< 1	69,000	< 1	< 10	< 20	490
DUP0527042C	05/27/04	< 100	< 1	< 5	NA	53	< 2	< 1	28,000	24	< 10	< 1	< 100	< 3	47,000	12	< 0.2	27	< 500	< 5	< 1	71,000	< 1	< 10	< 20	510
231GW09CL	05/27/04	< 50	< 5	< 5	NA	54	< 1	< 1	28,000	23	< 7	18	570	< 3	45,000	14	< 0.2	28	NA	NA	NA	NA	NA	NA	NA	420
	03/18/04	< 100	< 1	< 5	NA	51	< 2	< 1	29,000	20	< 10	< 1	< 100	< 3	46,000	< 10	< 0.2	36	< 500	< 5	< 1 UJ	74,000	< 1	< 10	< 20	510 J
	12/04/03	< 100	2.9	< 5	NA	57	< 2	< 1	22,000	22	< 10	< 1	< 100	< 3	46,000	< 10	< 0.2	29	< 500	< 5	< 1	67,000	1.2	< 10	< 20	490
	08/15/03	< 100	1.1	< 5	NA	53	< 2	< 1	26,000	24	< 10	< 1	120	< 3	43,000	< 10	< 0.2	26	< 500	< 5	< 1 UJ	65,000	< 1	< 10	< 20 UJ	440
	06/10/03	< 100	< 1	< 5	NA	51	< 2	< 1	28,000	22	< 10	< 1	< 100	< 3	47,000	< 10	< 0.2	24	< 500	< 5	< 1	67,000	< 1	< 10	< 20	470
	01/13/99	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	19.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	566
	10/14/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	18.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	530
	07/15/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	544
	04/20/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	19.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	790
	01/28/98	166	NA	NA	NA	NA	NA	NA	60,200	< 1	< 10	< 1	8,640	NA	60,700	1,510	NA	< 5	< 5,000	NA	NA	129,000	NA	< 10	NA	542
	10/23/97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	523
	07/24/97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	592
	04/22/97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 100 J	NA	NA	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	584
	01/28/97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	557

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - From Table 3 of the RAP (Treadwell & Rollo, 2003c).
3 - Due to computer/review error by the laboratory, sample 231GW09 was not analyzed by ICP-MS for the list of 22 metals. The sample had already been disposed of when the omission was discovered.
µg/L - micrograms per liter
mg/L - milligrams per liter
NA - Not analyzed
Groundwater samples collected from all site monitoring wells were field filtered and analyzed for dissolved metals.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.
Bold numbers indicate concentrations that exceed cleanup levels.
-- Cleanup level not established.

Table A-3-4
Results of Arsenic Speciation Analyses
Fill Site 6
Presidio of San Francisco, California

Location ID	Sample Date	Inorganic Arsenic (As)	Arsenite (As III)	Arsenate (As V) [2]	Percentage of As III	Percentage of As V
	Analytical Method[1]	1632M	1632M	1632M	--	--
		(µg/L)	(µg/L)	(µg/L)	%	%
Cleanup Levels [3]		**10**	--	--	--	--
LF6GW100	04/04/05	0.792	< 0.025 U	0.792	0	100
LF6GW101	04/04/05	1.22	< 0.025 U	1.22	0	100
LF6GW102	04/04/05	0.851 J	0.483 J	0.368 J	57	43
LF6GW103	04/05/05	0.386 J	< 0.025 U	0.386 J	0	100
DUP0405053A	04/05/05	0.397 J	< 0.025 U	0.397 J	0	100
231GW09	08/31/05	0.405 J	< 0.025 JU	0.405 J	0	100
	06/01/05	0.371	< 0.025 U	0.371	0	100
	04/04/05	0.344	< 0.025 U	0.344	0	100

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001.
2 - The concentration of As V was determined by the laboratory by subtracting the As III concentration from the inorganic As concentration. As III has been detected at greater concentrations than inorganic As, due to analytical variability. As V is reported as non-detect when As III is detected at a greater concentration than inorganic As.
3 - From Table 3 of the RAP (Treadwell & Rollo, 2003c).
-- Cleanup level not established.
µg/L - micrograms per liter
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-3-5
Results of Dissolved Gas and TOC Analyses
Fill Site 6
Presidio of San Francisco, California

Location ID	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		mg/L	mg/L	mg/L	mg/L
LF6GW100	03/17/06	NA	NA	NA	3.5
	04/04/05	< 0.005	< 0.005	<0.005	3.0
LF6GW101	03/17/06	NA	NA	NA	1.4
	04/04/05	< 0.005	< 0.005	<0.005	1.5
LF6GW102	04/04/05	< 0.005	< 0.005	0.52	14
LF6GW103	03/17/06	NA	NA	NA	1.5
	04/04/05	0.026	< 0.005	<0.005	1.4
DUP0405053A	04/05/05	< 0.005	< 0.005	< 0.005	1.4
LF6GW103CL	04/05/05	< 0.0005 U	< 0.0015 U	< 0.0005 U	1.4
LF6GW104	03/17/06	NA	NA	NA	3
LF6GW105	03/20/06	NA	NA	NA	1.9
LF6GW106	03/20/06	NA	NA	NA	3
231GW09	03/15/06	NA	NA	NA	0.88
	11/29/05	< 0.005	< 0.005	< 0.005	1.3
DUP1129052A	11/29/05	< 0.005	< 0.005	< 0.005	0.99
	08/31/05	< 0.005	< 0.005	< 0.005	1.1
	06/01/05	< 0.005	< 0.005	< 0.005	1.2 J
	04/04/05	< 0.005	< 0.005	<0.005	1.3

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the First Quarter 2005.
mg/L - milligrams per liter
NA - Not analyzed
TOC - Total Organic Carbon
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-3-6
Groundwater Elevation Summary
Fill Site 6
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF6GW100	05/22/06	12.17	28.73	16.56	MW
	03/06/06	12.02	28.73	16.71	MW
	11/28/05	12.78	28.73	15.95	MW
	08/29/05	12.22	28.73	16.51	MW
	05/23/05	12.05	28.73	16.68	MW
	03/14/05	12.30	28.73	16.43	MW
	12/13/04	13.23	28.73	15.50	MW
	08/09/04	13.70	28.73	15.03	MW
	05/24/04	13.74	28.73	14.99	MW
	03/08/04	13.78	28.73	14.95	MW
	12/01/03	16.02	28.73	12.71	MW
	08/11/03	17.45	28.73	11.28	MW
	06/02/03	17.31	28.73	11.42	MW
	03/10/03	15.36	28.73	13.37	MW
	12/02/02	13.73	28.73	15.00	MW
	08/26/02	13.22	28.73	15.51	MW
	05/28/02	13.02	28.73	15.71	MW
	03/04/02	12.60	28.73	16.13	MW
	11/26/01	13.25	28.73	15.48	MW
	08/27/01	13.47	28.73	15.26	MW
	05/08/01	12.87	28.73	15.86	MW
LF6GW101	05/22/06	11.20	27.03	15.83	MW
	03/06/06	11.13	27.03	15.90	MW
	11/28/05	11.80	27.03	15.23	MW
	08/29/05	11.13	27.03	15.90	MW
	05/23/05	10.93	27.03	16.10	MW
	03/14/05	11.18	27.03	15.85	MW
	12/13/04	11.85	27.03	15.18	MW
	08/09/04	12.25	27.03	14.78	MW
	05/24/04	12.48	27.03	14.55	MW
	03/08/04	12.67	27.03	14.36	MW
	12/01/03	14.31	27.03	12.72	MW
	08/11/03	15.14	27.03	11.89	MW
	06/02/03	14.85	27.03	12.18	MW
	03/10/03	13.15	27.03	13.88	MW
	12/02/02	12.27	27.03	14.76	MW
	08/26/02	11.68	27.03	15.35	MW
	05/28/02	11.74	27.03	15.29	MW
	03/04/02	11.31	27.03	15.72	MW
	11/26/01	12.05	27.03	14.98	MW
	08/27/01	12.14	27.03	14.89	MW
	05/08/01	11.44	27.03	15.59	MW
LF6GW102 [2]	05/23/05	NM	36.87	NM	MW
	03/14/05	19.75	36.87	17.12	MW
	12/13/04	21.70	36.87	15.17	MW
	08/09/04	22.35	36.87	14.52	MW
	05/24/04	21.86	36.87	15.01	MW
	03/08/04	20.50	36.87	16.37	MW
	12/01/03	23.06	36.87	13.81	MW
	08/11/03	23.22	36.87	13.65	MW
	06/02/03	22.72	36.87	14.15	MW

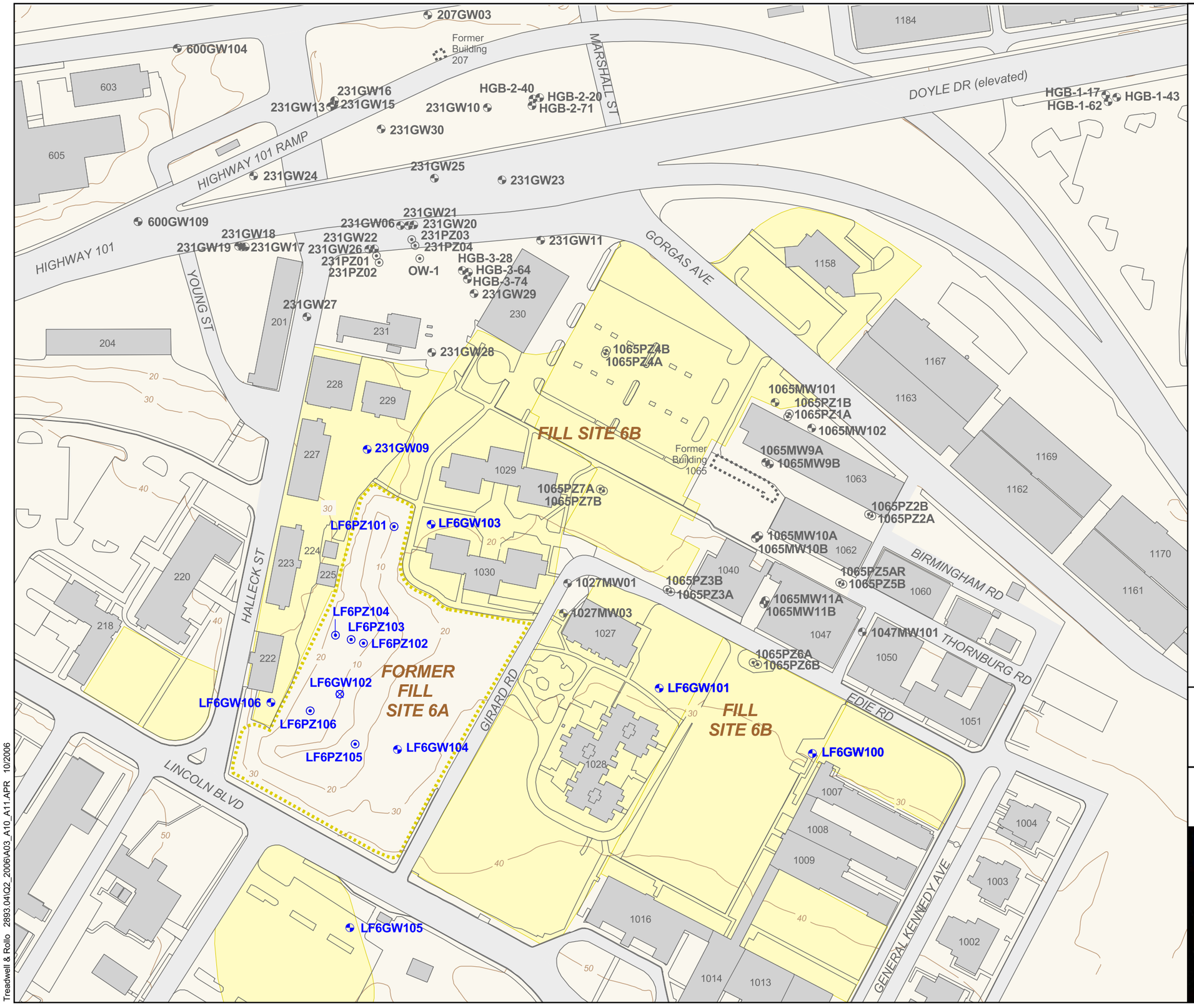
Table A-3-6
Groundwater Elevation Summary
Fill Site 6
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF6GW102 [2]	03/10/03	21.53	36.87	15.34	MW
	12/02/02	22.23	36.87	14.64	MW
	08/26/02	21.87	36.87	15.00	MW
	05/28/02	21.60	36.87	15.27	MW
	03/04/02	20.86	36.87	16.01	MW
	11/26/01	21.93	36.87	14.94	MW
	08/27/01	22.15	36.87	14.72	MW
	05/08/01	21.62	36.87	15.25	MW
LF6GW103	05/22/06	7.15	18.41	11.26	MW
	03/06/06	7.09	18.41	11.32	MW
	11/28/05	7.25	18.41	11.16	MW
	08/29/05	6.10	18.41	12.31	MW
	05/23/05	5.50	18.41	12.91	MW
	03/14/05	6.08	18.41	12.33	MW
	12/13/04	6.53	18.41	11.88	MW
	08/09/04	6.78	18.41	11.63	MW
	05/24/04	6.68	18.41	11.73	MW
	03/08/04	6.40	18.41	12.01	MW
	12/01/03	7.70	18.41	10.71	MW
	08/11/03	7.73	18.41	10.68	MW
	06/02/03	7.52	18.41	10.89	MW
	03/10/03	6.36	18.41	12.05	MW
	12/02/02	6.46	18.41	11.95	MW
	08/26/02	6.23	18.41	12.18	MW
	05/28/02	6.18	18.41	12.23	MW
	03/04/02	5.82	18.41	12.59	MW
	11/26/01	6.57	18.41	11.84	MW
	08/27/01	6.56	18.41	11.85	MW
	05/08/01	6.26	18.41	12.15	MW
LF6GW104	05/22/06	9.35	25.74	16.39	MW
	03/06/06	9.23	25.74	16.51	MW
	11/28/05	10.25	25.74	15.49	MW
LF6GW105	05/22/06	21.33	41.97	20.64	MW
	03/06/06	21.70	41.97	20.27	MW
	11/28/05	22.68	41.97	19.29	MW
LF6GW106	05/22/06	9.65	25.69	16.04	MW
	03/06/06	9.72	25.69	15.97	MW
	11/28/05	10.47	25.69	15.22	MW
LF6PZ101 [4]	05/22/06	0.92	10.44	9.52	PZ
	03/06/06	0.90	10.44	9.54	PZ
LF6PZ102 [4]	05/22/06	0.00	11.59	11.59	PZ
	03/06/06	0.00	11.59	11.59	PZ
LF6PZ103 [4]	05/22/06	2.90	14.09	11.19	PZ
	03/06/06	2.70	14.09	11.39	PZ
LF6PZ104 [4]	05/22/06	7.09	17.45	10.36	PZ
	03/06/06	6.82	17.45	10.63	PZ
LF6PZ105 [4]	05/22/06	0.70	13.75	13.05	PZ
	03/06/06	0.67	13.75	13.08	PZ
LF6PZ106 [4]	05/22/06	4.82	15.23	10.41	PZ
	03/06/06	4.45	15.23	10.78	PZ

Table A-3-6
Groundwater Elevation Summary
Fill Site 6
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
231GW09	05/22/06	12.80	24.28	11.48	MW
	03/06/06	12.60	24.28	11.68	MW
	11/28/05	13.11	24.28	11.17	MW
	08/29/05	12.36	24.28	11.92	MW
	05/23/05	11.15	24.28	13.13	MW
	03/14/05	11.50	24.28	12.78	MW
	12/13/04	12.18	24.28	12.10	MW
	08/09/04	12.75	24.28	11.53	MW
	05/24/04	12.63	24.28	11.65	MW
	03/08/04	12.22	24.28	12.06	MW
	12/01/03	13.15	24.28	11.13	MW
	08/11/03	13.38	24.28	10.90	MW
	06/02/03	13.22	24.28	11.06	MW
	03/10/03	12.25	24.28	12.03	MW
	12/02/02	12.43	24.28	11.85	MW
	08/26/02	12.26	24.28	12.02	MW
	05/28/02	12.20	24.28	12.08	MW
	03/04/02	11.97	24.28	12.31	MW
231GW09	11/26/01	12.31 [3]	24.28	11.97	MW
	08/27/01	12.65	24.28	11.63	MW
	05/08/01	12.06	24.28	12.22	MW

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
2 - Well was abandoned during the Second Quarter 2005.
3 - The depth to water was improperly recorded as 2.31 feet rather than 12.31 feet on 26 November 2001.
4 - Piezometer water levels are associated with local surface stream water levels.
MW- Monitoring well
NM - Not measured
PZ - Piezometer
feet PLLW - feet above Presidio Lower Low Water vertical datum



N

150 0 150 Feet

LEGEND

LF6GW100	Shallow Groundwater Monitoring Well
LF6PZ101	Shallow Piezometer
LF6GW102	Shallow Groundwater Monitoring Well abandoned between Q1/Q2 2005
231GW20	Adjacent Study Area Well
231PZ01	Adjacent Study Area Piezometer
	Topographic Contour (Contour Interval: 10 ft)
	Former Building Outline
	Former Fill Site 6A Excavation Boundary
	Approximate Lateral Extent of Fill Site 6B
201	Building and Number

Notes:
Location of limits of fill from Revised Main Installation Sites Feasibility Study (EKI, 2003).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datum: (topography) North American Vertical Datum, NAVD88

FILL SITE 6 AREA
SITE PLAN

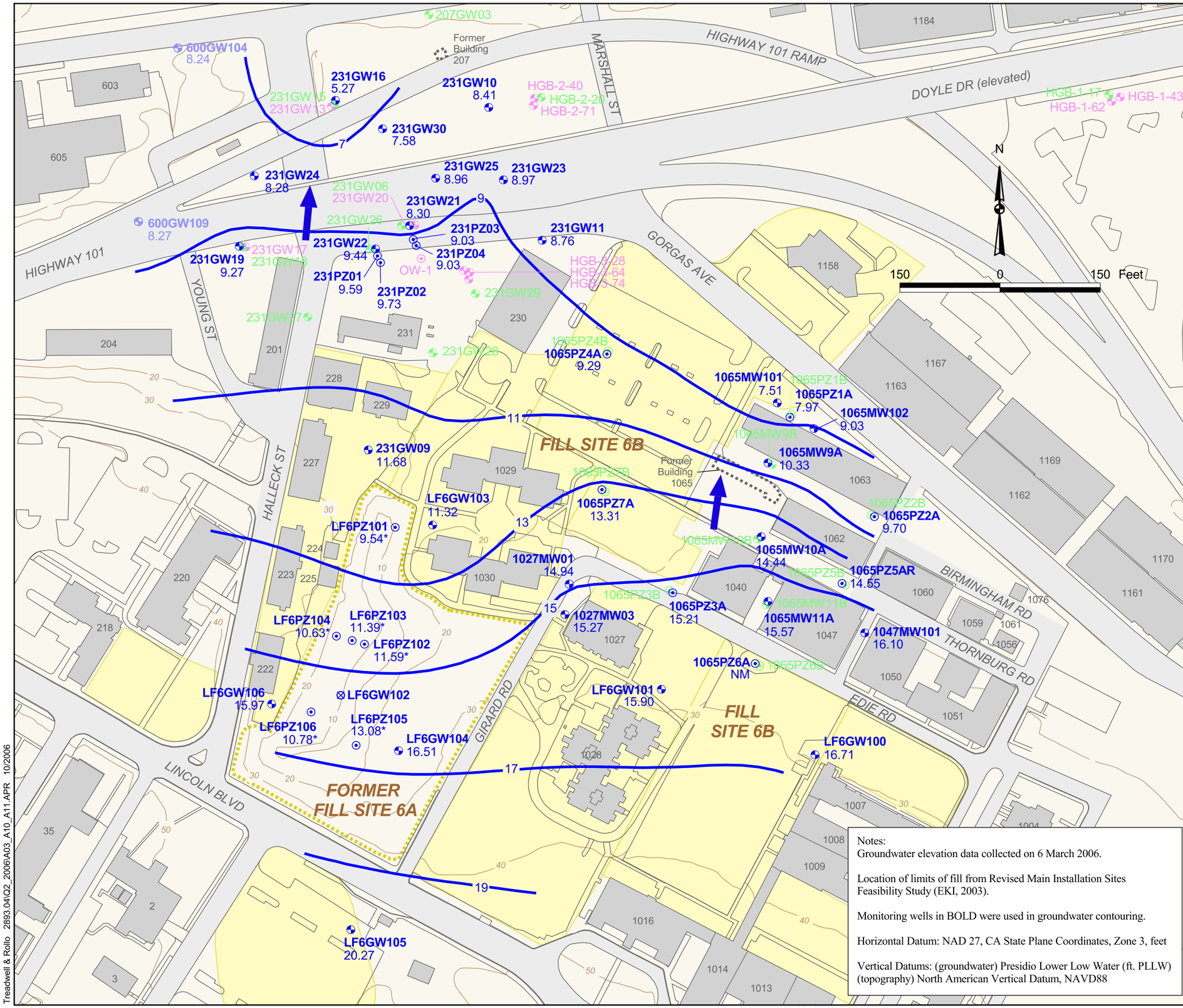
Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315
October 2006

FIGURE A-3-1

Treadwell & Rollo 2893.04\Q2_2006\A03_A10_A11.APR 10/2006



LEGEND

LF6GW101 15.90	Shallow Groundwater Monitoring Well March 2006 Groundwater Elevation
LF6PZ101 9.54*	Shallow Piezometer March 2006 Groundwater Elevation
*	Shallow Piezometer not used for groundwater contouring.
NM	Not measured since covered in bark and dirt.
LF6GW102	Abandoned Shallow Groundwater Monitoring Well
600GW104 8.24	Adjacent Study Area Shallow Groundwater Well March 2006 Groundwater Elevation
231GW15	Intermediate Groundwater Monitoring Well
1065PZ1B	Intermediate Piezometer
231GW17	Deep Groundwater Monitoring Well
OW-1	Deep Piezometer
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval: 2 ft)
	Topographic Contour (Contour Interval: 10 ft)
	Former Building Outline
	Former Fill Site 6A Excavation Boundary
	Approximate Lateral Extent of Fill Site 6B
201	Building and Number

FILL SITE 6, BUILDINGS 231/207 AND BUILDINGS 1065/1027
6 MARCH 2006
SHALLOW GROUNDWATER ELEVATION MAP

Notes:
Groundwater elevation data collected on 6 March 2006.

Location of limits of fill from Revised Main Installation Sites Feasibility Study (EKI, 2003).

Monitoring wells in BOLD were used in groundwater contouring.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

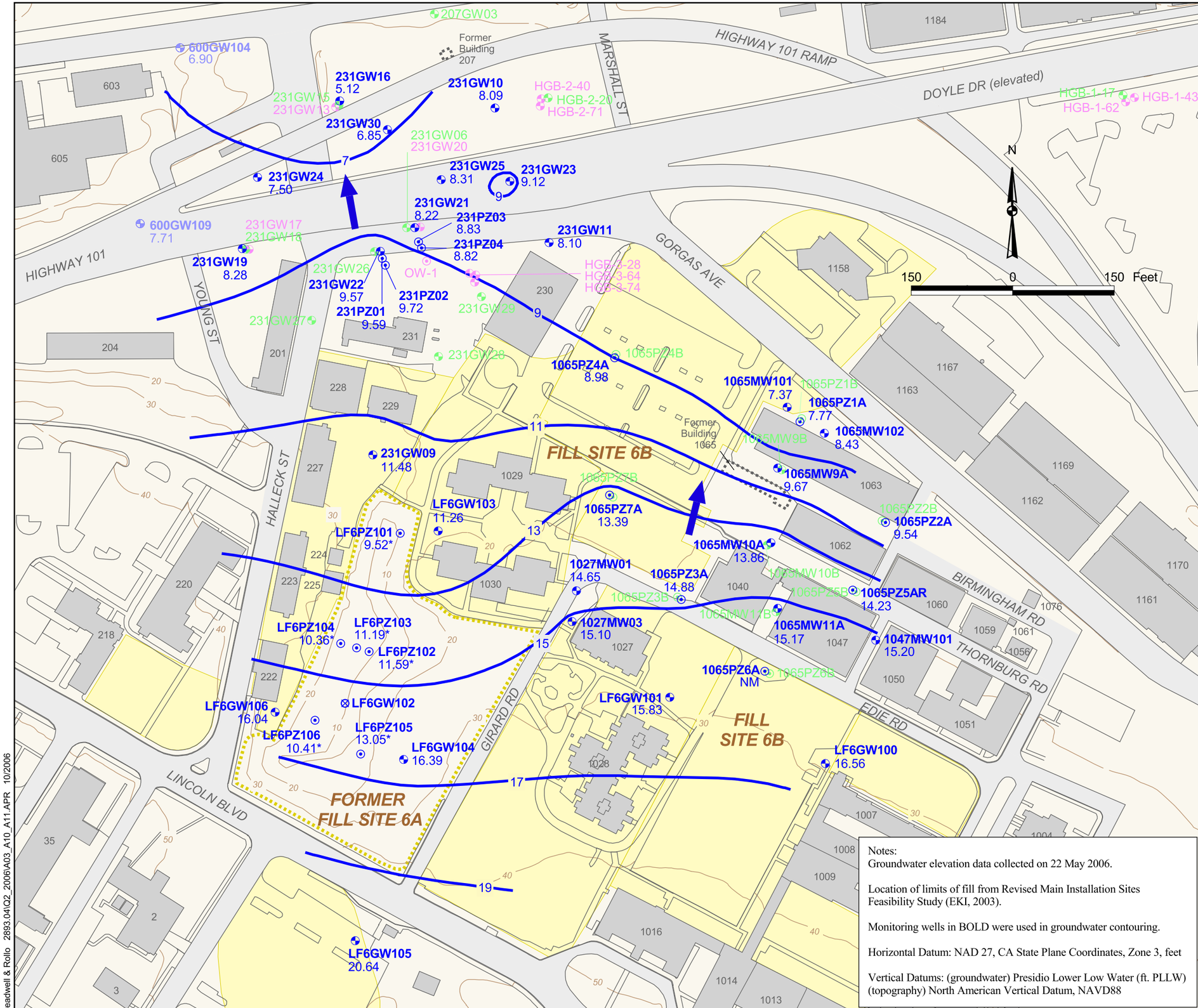
Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315
October 2006

FIGURE A-3-2

Treadwell & Rollo 2893.04\Q2_2006\A03_A10_A11.APR 10/2006



LEGEND

LF6GW101 15.83	Shallow Groundwater Monitoring Well May 2006 Groundwater Elevation
LF6PZ101 9.52*	Shallow Piezometer May 2006 Groundwater Elevation
*	Shallow Piezometer not used for groundwater contouring.
NM	Not measured since unable to locate.
LF6GW102	Abandoned Shallow Groundwater Monitoring Well
600GW104 6.90	Adjacent Study Area Shallow Groundwater Well May 2006 Groundwater Elevation
231GW15	Intermediate Groundwater Monitoring Well
1065PZ1B	Intermediate Piezometer
231GW17	Deep Groundwater Monitoring Well
OW-1	Deep Piezometer
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval: 2 ft)
	Topographic Contour (Contour Interval: 10 ft)
	Former Building Outline
	Former Fill Site 6A Excavation Boundary
	Approximate Lateral Extent of Fill Site 6B
201	Building and Number

FILL SITE 6, BUILDINGS 231/207 AND BUILDINGS 1065/1027
22 MAY 2006
SHALLOW GROUNDWATER ELEVATION MAP

Treadwell&Rollo

Notes:
Groundwater elevation data collected on 22 May 2006.

Location of limits of fill from Revised Main Installation Sites Feasibility Study (EKI, 2003).

Monitoring wells in BOLD were used in groundwater contouring.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

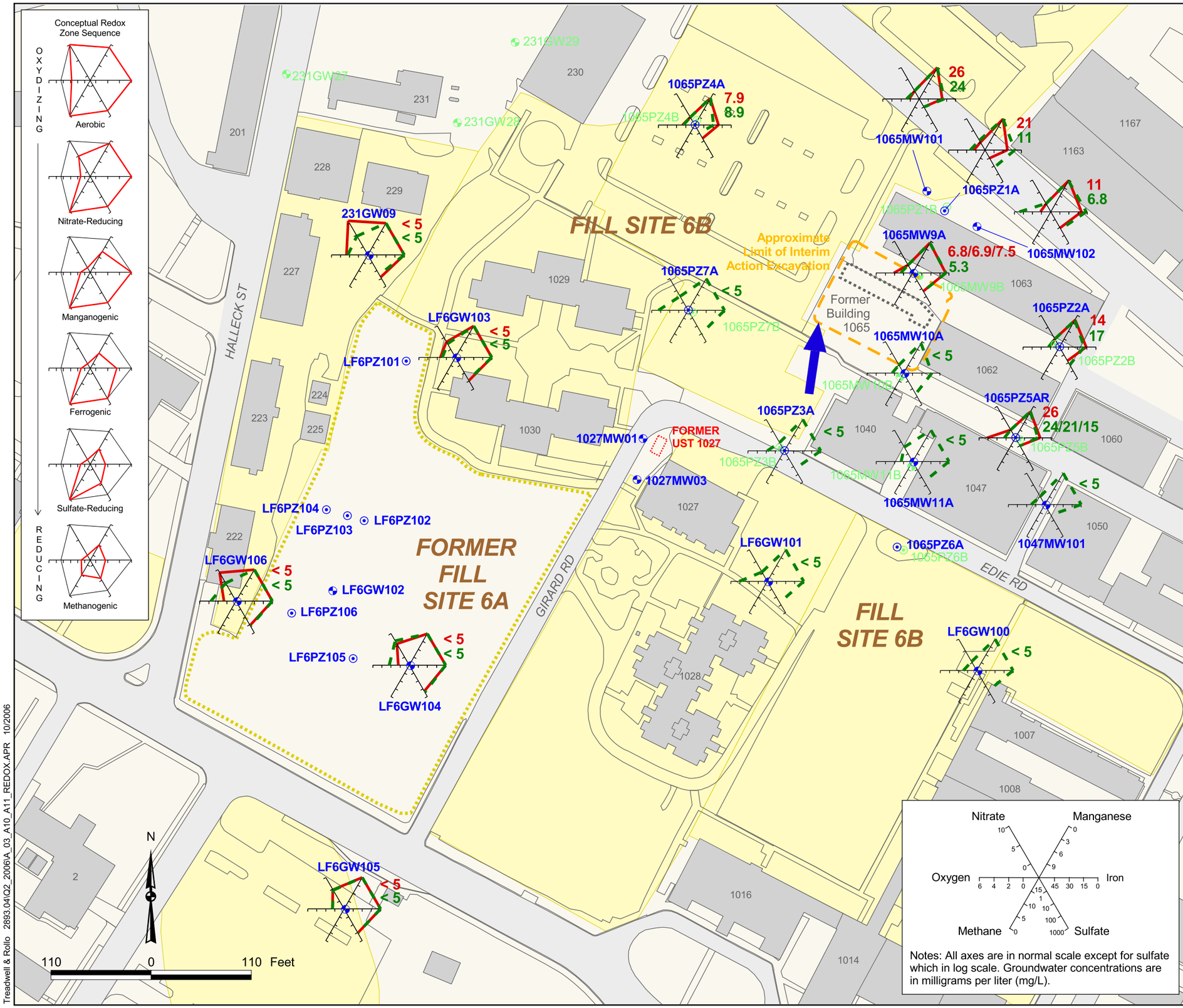
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315
October 2006

FIGURE A-3-3

Treadwell & Rollo 2893.04\Q2_2006\A03_A10_A11.APR 10/2006



LEGEND

- LF6GW101 — Shallow Groundwater Monitoring Well
- 1065PZ1A — Shallow Piezometer
- 231GW27 — Intermediate Groundwater Monitoring Well
- 1065PZ1B — Intermediate Piezometer
- Approximate Direction of Groundwater Flow
- Location of Building 1065 Interim Action Area Boundary provided by MACTEC. The Interim Action took place in November 2003.
- Building 1027 10,000 Gallon Fuel Oil Underground Storage Tank (UST) (Montgomery Watson, 1996c)
- Former Building Outline
- Former Fill Site 6A Excavation Boundary
- Approximate Lateral Extent of Fill Site 6B
- 201 — Building and Number
- Q2-2006 Groundwater Concentrations
- 6.8/6.9/7.5 — Q2-2006 Dissolved Arsenic Concentration (µg/L) (EPA Method SW6010/SW6020). Second value represents a blind duplicate. Third value represents a quality control duplicate.
- Q1-2006 Groundwater Concentrations
- < 5 — Q1-2006 Dissolved Arsenic Concentration (µg/L) (EPA Method SW6010/SW6020)

Notes:
Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Notes: All axes are in normal scale except for sulfate which in log scale. Groundwater concentrations are in milligrams per liter (mg/L).

FILL SITE 6 AND BUILDING 1065/1027 REDOX DIAGRAMS FOR SHALLOW GROUNDWATER

Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315

October 2006

FIGURE A-3-4

Treadwell & Rollo 2893.04\Q2_2006\A_03_A10_A11_REDOX.APR 10/2006

First Quarter 2006

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 6 | Well No.: LF6 GW 100

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DA | Sampled by: DR | Date: 3/17/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 22.78

Depth to Water (WL, ft. below TOC): 11.84

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Normal [X] Modified (max 5 gpm)

[X] Bailer \ Type: Disposable [ ] Pump \ Type [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft) [ ] Near Bottom Depth (ft) [ ] Other

PURGE VOLUME CALCULATION

Mod (Water Column Length) x Mod. (Water Volume/ft) x Mod (No. Vols) = gals CALCULATED PURGE VOLUME

Total Purge Time: 10 min.

Recharge Rate:

Purge Rate: 0.3 gal/min.

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type:

Time / Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
928 / Initial	6.72	11.7	Pre 0.81	651	Pre 197	2	
929 / 0.3	6.90	12.5	—	645	—	1	
932 / 1.8	6.94	12.6	—	654	—	1	
935 / 2.9	6.95	12.7	Post 0.93	654	Post 205	1	
/							
/							
/							
/							
/							
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/							
/							

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/17/06 / 940

Purging Equipment: Pump - Type: Bailer - Type: Disposable Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF6 GW 100	1 L NP Poly / 1 L P Amber	CFI	2053	
	1 HNO_3 Poly / 1 NaOH Poly			
	3 HCL Vocs			
	2 H_2SO_4 Vocs			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 6 | Well No.: LF6GW101

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: P. Cornish | Date: 3/17/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 24.82

Depth to Water (WL, ft. below TOC): 10.90

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length ___ x Water Volume/ft ___ x No. Vols ___ = ___ gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: ~5 gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI DO meter / orion ORP

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND MS (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
910	/	init.	5.90	14.0	pre- 4.13	110.8	–	79	clear
913	/	1.5	5.87	13.9	–	111.0	–	23	
916	/	3.0	5.77	14.4	–	857.5	–	32	
919	/	4.5	5.76	14.4	–	879.8	–	42	
	/				post 4.15		post -249.2		
	/								
	/								
	/								
	/								
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	/								
	/								
	/								

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/17/06 928

Purging Equipment: Pump - Type: Bailer - Type: Disp Other:

Sample Filtered: (Yes) No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF6GW101	1x1L NP Poly	CAT	2051	
	2x40ml H_2SO_4 VOA			
	1x500ml HNO_3 Poly			
	5x1L Amber NP			

QUALITY CONTROL SAMPLES

1x 500ml NaOH+ZnAc Poly

Duplicate Samples: 3x 40ml HCl VOA

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 6 | Well No.: LF6 GW 103

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/17/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 24.97

Depth to Water (WL, ft. below TOC): 6.97

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Mod (Water Column Length) x Mod (Water Volume/ft) x Med (No. Vols) = gals CALCULATED PURGE VOLUME

Total Purge Time: 10 min

Recharge Rate:

Purge Rate: ~.3 gal/min.

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type:

Time	/ Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1020	/ initial	6.90	13.7	Pre. 0.72	842	Pre 201	2	
1021	/ 0.9	6.93	14.0	—	839	—	1	
1024	/ 1.8	6.93	14.3	—	839	—	1	
1027	/ 2.7	6.94	14.4	Post 0.84	841	Post 10.5	0	
	/							
	/							
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	/							
	/							
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	/							

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/17/06 / 1055

Purging Equipment: Pump - Type: Bailer - Type: Disposable Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF6GW103	1L NP poly / 6 NP Ambers	CFT	2053	
	1 HNO3 poly / 1 NaOH Poly			
	3 HCL Voas			
	2 H2SO4 Voas			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 6 | Well No.: LF6GW104

Project Number: 2093 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: P. Cornish | Date: 3/17/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 24.71

Depth to Water (WL, ft. below TOC): 9.03

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Normal [X] Modified (max 5 gpm)

[X] Bailer \ Type: Disp. [ ] Pump \ Type: [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft): [ ] Near Bottom Depth (ft): [ ] Other:

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: .5 gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI DOMeter / Orion ORP

Time	/ Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND mS (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1015	/ init.	6.71	14.8	pre 1.17	1193	–	27	clear
1018	/ 1.5	5.80	15.4	–	1198	–	186	"
1021	/ 3.0	5.78	15.5	–	1182	–	263	"
1024	/ 4.5	5.75	15.8	–	1129	–	227	"
	/			post 2.41		post 240		
	/							
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	/							

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/17/06 / 1030

Purging Equipment: Pump - Type: Bailer - Type: Disp. Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF6GW104	6x1L Pd, NP	CET	2051	
	1x500ml HNO_3			
	1x500ml NaOH+ZnAc			
	2x40ml H_2SO_4 VOA			

QUALITY CONTROL SAMPLES 3x1L Amber NP

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 6 | Well No.: LF6GW105

Project Number: 2093 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: | Date: 3/20/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 29.74

Depth to Water (WL, ft. below TOC): 21.34

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: .5 gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI DO meter / Orion ORP

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND µS (~~mS/cm~~)	ORP (mV)	Turbidity (NTU)	Comments
1232	/	init	7.04	17.6	pre 0.28	960.8	–	86	cloudy brown
1235	/	1.5	6.881	16.8	–	1112	–	>1000	↓ ↓
1238	/	3	6.830	16.4	–	1116	–	>1000	
1241	/	4.5	6.833	16.0	–	1126	–	>1000	
	/				post 0.52		post 171.1		
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Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other: onsite Tank

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 3/20/06 / 1250

Purging Equipment: Pump - Type: Bailer - Type: Disp Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF6GW105	2x40ml H_2SO_4 VOA	CET	2055	
	1x1L NP Poly			
	1x500ml HNO_3 Poly			
	1x1L NaOH + ZnAc Poly			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 6 | Well No.: LF6GW 106

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: P. Cornish | Date: 3/20/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 24.62

Depth to Water (WL, ft. below TOC): 9.66

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Normal [X] Modified (max 5 gpm)

[X] Bailer \ Type: Disp. [ ] Pump \ Type [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft) [ ] Near Bottom Depth (ft) [ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate .5 gpm | 4.6 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI DO meter / Orion ORP

Time	/ Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND µS ~~mS/cm~~	ORP (mV)	Turbidity (NTU)	Comments
1322	/ 1.5	7.45	16.8	pre 3.44	565.6	–	45	cloudy
1325	/ 1.5	7.31	15.6	–	570.0	–	421	
1328	/ 3	7.07	15.7	–	894.2	–	558	
1331	/ 4.5	6.95	15.2	–	858.2	–	584	
	/			post 3.53		post. 252.0		
	/							
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	/							

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other onsite Tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 3/20/06 / 1348

Purging Equipment: Pump - Type | Bailer - Type: Disp. | Other

Sample Filtered: (Yes) No | Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF6GW 106	1x1L NP poly	CAT	2055	
	1x500ml HNO3 poly			
	3x1L ~~Poly~~ NP Amber			
	1x1L NaOH+Zn AC			

QUALITY CONTROL SAMPLES 2x40ml H_2SO_4 Vom

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

Second Quarter 2006

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Fill Site 6 | Well No.: LF6GW103

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: D. Ragnal | Sampled by: D. Ragnal | Date: 5/23/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 24.87

Depth to Water (WL, ft. below TOC): 6.91

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other: N/A

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: 1 gal per 3 min.

2 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter / Turbidimeter

Time / Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1035 / 1 gal.	6.6	16.4	—	935	—	22	
/ Switched to 1/2 gal. due to water level dropping quickly							
1038 / 1 1/2 gal.	6.7	16.3	—	893	—	151	
1041 / 2 gal.	6.7	16.2	1.30	864	51.3	126	
/							
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/							
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/							
/							
/							
/							

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other: Onsite Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/23/06 / 1050

Purging Equipment: Pump - Type: Bailer - Type: Disposable Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: Disolved metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF6GW103	1 1L Poly	C+T	2147	
	1 500mL Poly w/HNO3			
	5 1L Ambers NP			
	3 HCL Vials			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Fill Site 6 | Well No.: LF6 GW104

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: D. Raynal | Sampled by: D. Raynal | Date: 5/23/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 24.68

Depth to Water (WL, ft. below TOC): 9.50

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other: N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: 1 gal / 3 min.

3 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter / Turbidimeter

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND µS/cm	ORP (mV)	Turbidity (NTU)	Comments
1154	/	—	6.7	16.4	—	1005	—	54	
1156	/	1 gal.	6.8	17.2	—	1030	—	594	
1159	/	2 gal	6.8	17.1	—	1031	—	>1000	
1202	/	3 gal.	6.8	17.3	0.42	1020	75.3	>1000	
	/								
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Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Onsite Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/23/06 1210

Purging Equipment: Pump - Type: Bailer - Type: Disposable Other:

Sample Filtered: (Yes) No Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF6 GW104	1 1L Poly NP	CTS	21847	
	1 500ml Poly HNO3			
	3 1L NP Ambers			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Fill Site 6 | Well No.: LF6 GW 105

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: D. Raynal | Sampled by: D. Raynal | Date: 5/23/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 29.62

Depth to Water (WL, ft. below TOC): 21.36

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other: N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: 1 gal / 3 min.

3 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter / Turbidimeter

Time	Liters or Gallons	pH	Temp (C) °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
initial	—	6.7	19.4	—	1025	—	147	
1313	1 gal	6.7	18.9	—	1054	—	>1000	
1316	2 gal	6.7	18.8	—	1064	—	>1000	
1319	3 gal.	6.7	18.9	0.54	1068	92.3	>1000	

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Onsite Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/23/06 / 1325

Purging Equipment: Pump - Type: Bailer - Type: Disposable Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF6 GW105	1L Nitric Poly	CTS	2147	
	500ml Poly / HNO3			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Fill Site 6 | Well No.: LF6 GW106

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: D. Rayna | Sampled by: D. Rayna | Date: 5/23/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 24.54

Depth to Water (WL, ft. below TOC): 9.74

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other: N/A

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate: 1 gal / 3 min.

4 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter / Turbidimeter

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
initial	—	7.1	17.8	—	677	—	371	Has a 2357 lock.
1406	1 gal	7.1	17.5	—	684	—	71000	
1409	2 gal	7.0	17.1	—	702	—	71000	
1412	3 gal.	6.9	17.0	—	712	—	71000	
1415	4 gal.	6.9	16.9	0.70	719	103.5	71000	

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Onsite Baker Tank

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 5/23/06 / 1420

Purging Equipment: Pump - Type: Bailer - Type: Disposable Other:

Sample Filtered: (Yes) No Filtered Sample Analysis: Dissolved metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF6 GW106	1L NP Poly	CTT	2147	
	1 500 ml Poly HNO_3			
	3 NP Ambers			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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BATTERY HOWE/WAGNER
APPENDIX SECTION A-4
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2006
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

Battery Howe/Wagner is located in the northwestern portion of the Presidio (Figure 1). The site ground surface elevation is approximately 175 to 220 feet above the PLLW datum. The five-acre site is bounded by Battery Wagner Road on the north and east, Upton Avenue to the west, and Ruckman Avenue to the south (Figure A-4-1).

Battery Howe/Wagner was the first 12-inch mortar fortification established in San Francisco (Dames & Moore, 1997). The fortification was constructed in 1893. The date the Battery Howe/Wagner site was decommissioned is unknown, although aerial photographs indicate the site was covered with fill some time between 1963 and 1968. Potential sources of contamination reportedly exist within the debris fill (Montgomery Watson, 1997a).

Erler & Kalinowski, Inc. (EKI) installed three new monitoring wells (HWGW100, HWGW101, and HWGW102) at Battery Howe/Wagner in July 2000 (Figure A-4-1). These groundwater monitoring wells were constructed between Building 1233 and existing monitoring wells BHWGW01, BHWGW04, and BHWGW05 to evaluate whether historical releases of carbon tetrachloride or other volatile organic compounds (VOCs), formerly stored within Building 1233, have occurred (EKI, 2000a). Monitoring wells HWGW100 and HWGW101 were installed, developed, and sampled using low-flow sampling methodologies in July 2000. Groundwater was not observed in monitoring well HWGW102 during drilling, well construction or during subsequent monitoring events. Therefore, groundwater samples have never been collected from monitoring well HWGW102.

Groundwater sampling events have taken place at Battery Howe/Wagner since August 1992 and samples have been analyzed for VOCs, dissolved and total metals, hexavalent chromium, and general chemistry parameters. Hexavalent chromium analysis was replaced by dissolved aluminum, chromium and iron analyses beginning with the Second Quarter 2003. Additional dissolved metals (19) were added to the sampling and analysis program beginning with the Second Quarter 2006.

Currently, the sampling and analysis schedule (Tables 1A and 1B) for the Battery Howe/Wagner wells includes annual monitoring of VOCs and quarterly monitoring of dissolved metals and general chemistry parameters. Oxygen-reduction potential (ORP), pH and temperature are also being measured in the field as part of the low-flow sampling technique. Current and historical analytical results are presented in Tables A-4-1 and A-4-3.

2.0 SITE DESCRIPTION AND GEOLOGY

Battery Howe/Wagner is in the Marina Groundwater Basin (Montgomery Watson, 1996c). Depth to groundwater ranges from approximately 11 to 30 feet bgs. Groundwater flow is generally toward the northeast, but has been reported as both to the east and north (Dames and Moore, 1997).

Artificial and debris fill material lie beneath the Battery Howe/Wagner site at depths ranging from approximately 2.5 to 25 feet bgs. The artificial fill material consists of poorly sorted clay, silt, sand, and gravel, with various types of rock. The debris fill consists mainly of clay and silt with varying amounts of building materials, including glass, wood, brick, concrete, metal strips, and wire. Colma Formation sediments are present below the fill materials and consist of two distinct units: a silty clay colluvium ranging from 0 to 16 feet thick, and a dune sand ranging up to 7 feet thick. Franciscan Formation bedrock underlies the Colma Formation.

3.0 GROUNDWATER MONITORING

Battery Howe/Wagner has six associated monitoring wells (Figure A-4-1). During the First and Second Quarters 2006, groundwater elevation measurements were collected at all Battery Howe/Wagner monitoring wells, with HWGW102 being dry during both quarters. During the First and Second Quarters 2006, groundwater samples were collected from five of the Battery Howe/Wagner monitoring wells (BHWGW01, BHWGW04, BHWGW05, HWGW100 and HWGW101) and analyzed for dissolved metals and general chemistry parameters. In addition, samples were collected and analyzed for VOCs during the First Quarter 2006.

3.1 Groundwater-Level Measurements and Interpretation

Groundwater elevation measurements were collected on 6 March and 22 May 2006 at site wells except for HWGW102 which was dry. Groundwater elevations are summarized in Table A-4-4. The groundwater elevations measured at the Battery Howe/Wagner site are generally within the range of historical elevations. Water-level meters were calibrated on 6 March and 22 May 2006. The calibration logs can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C.

During the First Quarter 2006 groundwater elevations ranged from 162.85 to 189.84 feet above PLLW in monitoring wells BHWGW01 and HWGW101, respectively. Groundwater flow was in a northeasterly direction during the First Quarter 2006, which follows the general topographic trend (Figure A-4-1).

During the Second Quarter 2006, groundwater elevations ranged from 160.65 to 191.72 feet above PLLW in monitoring wells BHWGW01 and HWGW101, respectively. Groundwater flow

was in a northeasterly direction during the Second Quarter 2006, which follows the general topographic trend (Figure A-4-2).

The First and Second Quarter 2006 groundwater gradients were estimated to be approximately 0.058 and 0.055 feet per foot, respectively. Monitoring well HWGW102 was not used in the groundwater contouring or gradient calculation during either the First and Second Quarters 2006 because it was dry. Groundwater gradients and flow directions are consistent with previous findings at the site.

3.2 Monitoring Well Purging and Sampling

During the First and Second Quarters 2006, five of the six Battery Howe/Wagner site monitoring wells (BHWGW01, BHWGW04, BHWGW05, HWGW100, and HWGW101) were purged and sampled on 15 and 16 March and 25 May 2006, respectively. The remaining well (HWGW102) was dry during both the First and Second Quarters 2006 and was not sampled. All Battery Howe/Wagner monitoring wells containing water were sampled using methods shown in Tables 1A and 1B, and in accordance with procedures described in the FSP (Treadwell & Rollo, 2001a).

Purge equipment, purging volumes, purge water general water chemistry parameters, and sampling equipment for each monitoring well are described in the purge records located at the conclusion of this section. Purge water was stored for future disposal in one of two 2,800-gallon aboveground polyethylene storage tanks, which are located at the Central Magazine.

3.3 Groundwater Analytical Program

All groundwater samples collected were submitted to the project laboratory for the analyses shown in Tables 1A and 1B of the main text. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are shown in Table 5. Sample containers collected from each well are described in the purge records located at the conclusion of this section.

Quality assurance and quality control (QA/QC) samples were collected as part of this program. Section 6.2 of the main report discusses the QA/QC sampling and analysis performed for the First and Second Quarters 2006.

4.0 GROUNDWATER ANALYTICAL RESULTS

During the First Quarter 2006, groundwater samples were collected from the five monitoring wells (BHWGW01, BHWGW04, BHWGW05, HWGW100, and HWGW101) and analyzed for VOCs, three dissolved metals (aluminum, chromium and iron) and general chemistry parameters. During the Second Quarter 2006, groundwater samples were collected from the five wells and analyzed for 22 dissolved metals and general chemistry parameters.

4.1 Dissolved Oxygen

Dissolved oxygen measurements taken during the First and Second Quarters 2006 at Battery Howe/Wagner wells were within historical ranges (Table A-4-1).

4.2 General Chemistry Results

The table below summarizes new high and low general chemistry analytical results for the First and Second Quarters 2006 when compared to historical data, and provides the range and frequency of historical results (Table A-4-1). The total number of analyses may vary depending on the sampling frequency, the commencement date of sampling, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
General Chemistry							
BHWGW01	Nitrate	25 / 25	5.5	11.1	5.2	--	mg/L
BHWGW04	Alkalinity, Total	13 / 13	290	330	210	--	mg/L
	Bicarbonate	13 / 13	290	330	210	--	mg/L
HWGW100	Alkalinity, Total	10 / 10	730	1,200	590	--	mg/L
	Bicarbonate	10 / 10	730	1,200	590	--	mg/L
	Chloride	10 / 10	45	590	23	--	mg/L
	Nitrate	9 / 9	0.33	0.9	--	1.3	mg/L
	Sulfate	10 / 10	100	300	65	--	mg/L
HWGW101	Nitrate	13 / 13	1.7	2.2	1.5	--	mg/L
	Sulfate	14 / 14	88	190	84	--	mg/L

The new high and low detections shown above were only slightly above or below previous data and are not considered significant. ORP, pH, and temperature measurements were collected during low flow sampling beginning in the First Quarter 2006 and the First and Second Quarter 2006 results summarized in Table A-4-2.

4.3 Dissolved Metals Results

Groundwater samples collected from the five Battery Howe/Wagner monitoring wells were analyzed for three dissolved metals (aluminum, chromium and iron) during the First Quarter 2006 and 22 dissolved metals during the Second Quarter 2006. The current and historical dissolved metals results are shown on Table A-4-3.

Hexavalent chromium analysis was replaced by dissolved aluminum, chromium and iron analyses beginning with the Second Quarter 2003. Chromium primarily exists in three valence states in nature; chromium(0), trivalent chromium, and hexavalent chromium. Hexavalent

chromium is vastly more soluble than chromium(0) and trivalent chromium and therefore, the majority of dissolved chromium in groundwater likely consists of hexavalent chromium. During the First and Second Quarters 2006, dissolved chromium was detected in the well samples analyzed except for BHWGW04 and BHWGW05. Dissolved chromium was detected at concentrations of 24 and 22 µg/L within monitoring wells HWGW100 and HWGW101, respectively. These concentrations are within the historical concentration range for chromium previously detected within these wells.

Dissolved aluminum and iron were not detected above laboratory detection limits within the Battery Howe-Wagner monitoring wells sampled during the First and Second Quarters 2006 (Table A-4-3). Based on historical groundwater results at the Presidio, the presence of aluminum in groundwater samples is indicative of sample filter breakthrough. Aluminum and iron were included in the suite of analyses as indicators of potential filter failure. Additionally, dissolved iron, occurring in the divalent state, is a known reductant of hexavalent chromium. Hexavalent chromium would not be expected to be present with high dissolved iron concentrations.

During the First and Second Quarters 2006, dissolved arsenic, barium, copper, manganese and nickel were detected in select well samples (Table A-4-3). In addition, calcium, magnesium, potassium and sodium were detected in most wells. Arsenic was detected in one well HWGW100 at a concentration of 7.8 µg/L and was previously detected once in 1995 at well BHWGW01 (at 7 µg/L). Barium was detected in three of the five wells at concentrations ranging from 37 to 90 µg/L. Copper was detected in wells HWGW100 and BHWGW01 at concentrations of 1.4 and 2.3 µg/L. Manganese was detected at a new high in well BHWGW05 at a concentration of 560 µg/L and nickel was detected in wells BHWGW01 and BHWGW05 at concentrations of 3.5 and 31 µg/L, respectively. Dissolved metals results for the First and Second Quarters 2006 at Battery Howe/Wagner wells were near or within historical ranges and are not considered significant.

4.4 VOC Results

During the First Quarter 2006, samples were collected from the five Battery Howe/Wagner monitoring wells and analyzed for VOCs. Monitoring wells BHWGW01 and HWGW100 were the only wells with detected concentrations of VOCs. Monitoring well BHWGW01 had concentrations of carbon tetrachloride (1.1 µg/L) and chloroform (0.7 µg/L) detected within historical ranges. 1,1-DCE was detected during the First Quarter 2006 within monitoring well HWGW100 at a new high concentration of 3.0 µg/L (Table A-4-2). The detected concentration is only slightly higher than the previous high concentration and is not considered significant. No other VOCs were detected within the Battery Howe-Wagner monitoring wells during this quarter.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Groundwater elevations, gradients, and flow directions during First and Second Quarters 2006 are consistent with historical values and interpretations. The five Battery Howe/Wagner monitoring wells were sampled and analyzed during the First and Second Quarter 2006 without any significant findings. The majority of dissolved metals and general chemistry results were within the range of previously detected concentrations for Battery Howe/Wagner monitoring wells and are not considered significant.

The VOCs results for the First Quarter 2006 are similar to historical trends with low levels of tetrachloride and chloroform detected in monitoring well BHWGW01 and 1,1-DCE detected in monitoring well HWGW100. In general, the majority of compound concentrations detected were within historical ranges. Analytes that were outside of historical bounds can generally be attributed to natural fluctuations.

Table A-4-1
Results of General Chemistry Analyses
Battery Howe/Wagner
Presidio of San Francisco, California

Well Name	Sample Date	Total Alkalinity	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	Total Dissolved Solids	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ SW9056	E300.0/ SW9056	E300.0/ SW9056	E353.2	E300.0/ SW9056	E160.1	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
BHWGW01	05/25/06	520	520	200	0.92	< 0.1	5.6	< 0.05	NA	67	NA	158.6	7.8	17.42
DUP0525063A	05/25/06	530	530	200	NA	< 0.1	5.3	< 0.05	NA	66	NA	NA	NA	NA
BHWGW01CL	05/25/06	512	NA	220	NA	< 1 U	6.49	< 0.02 U	NA	68	NA	NA	NA	NA
	03/16/06	520	520	210	0.84	0.11	5.2	< 0.05	NA	66	NA	28.1	7.76	16.55
	03/15/05	560	560	240	0.5	0.1	5.5	< 0.05	NA	65	NA	--	--	--
	03/18/04	480	480	260	0.5	< 0.1	5.8	< 0.05	NA	69	NA	--	--	--
DUP0318041A	03/18/04	480	480	260	--	< 0.1	5.9	< 0.05	NA	68	NA	--	--	--
	12/04/03	520	520	240	0.5	< 0.1	5.5	< 0.05	NA	65	NA	--	--	--
	08/21/03	530	530	210	0.65	< 0.1	5.5	< 0.05	NA	63	NA	--	--	--
	06/10/03	500	500	240	0.62	< 0.1	6.5	< 0.05	NA	71	NA	--	--	--
	03/12/03	580	580	240	0.46	0.12	6.6	< 0.05	NA	61	NA	--	--	--
	12/09/02	500	500	250	0.84	0.12	6.3	< 0.05	NA	68	NA	--	--	--
	08/28/02	430	430	230	0.54	0.16	6.5	< 0.05	NA	74	NA	--	--	--
	06/05/02	520	520	250	0.49	0.15	6.9	< 0.05	NA	67	NA	--	--	--
DUP0605023A	06/05/02	520	520	250	--	0.14	7.4	< 0.05	NA	70	NA	--	--	--
	03/06/02	460	460	280	4.4	0.18	6.9	< 0.05	NA	72	NA	--	--	--
DUP0306023A	03/06/02	460	460	280	--	0.18	6.9	< 0.05	NA	72	NA	--	--	--
BHWGW01CL	03/06/02	430	430	270	--	< 1	7.2 [2]	< 1	NA	75	NA	--	--	--
	11/28/01	480	480	310	1.6	0.14	6.7	< 0.05	NA	73	NA	--	--	--
DUP1128012A	11/28/01	480	480	300	--	0.14	6 J	< 0.05	NA	67	NA	--	--	--
BHWGW01CL	11/28/01	470	470	130	--	< 1	6.3 [2]	< 1	NA	49	NA	--	--	--
	08/30/01	480	480	290	2.5	0.16	6.9	< 0.05	NA	73	NA	--	--	--
DUP0830011A	08/30/01	480	480	290	--	0.2	6.3	< 0.05	NA	76	NA	--	--	--
	05/10/01	520	520	290	3.2	0.18	6.6	< 0.05	NA	69	NA	--	--	--
	11/19/98	NA	NA	NA	3.3	NA	NA	NA	NA	NA	1,070	--	--	--
	01/12/98	499	499	297	1.8	NA	6.4	NA	NA	61	1,130	--	--	--
	02/11/97	NA	NA	NA	0.6	NA	NA	NA	NA	NA	NA	--	--	--
	11/07/94	647	647	289	NM	NA	11.1	NA	NA	88.7	1,020	--	--	--
	08/25/92	560	534	250	NM	NA	NA	NA	6.3	65	1,120	--	--	--
BHWGW04	05/25/06	310	310	89	1.06	< 0.1	4.6	< 0.05	NA	62	NA	129.2	7.17	16.4
	03/15/06	210	210	89	0.9	< 0.1	4.9	< 0.05	NA	62	NA	-47.3	7.39	16.66
	03/15/05	310	310	89	0.7	< 0.1	5.1	< 0.05	NA	57	NA	--	--	--
	03/18/04	310	310	95	0.8	< 0.1	5.1	< 0.05	NA	60	NA	--	--	--
	03/12/03	320	320	90	1.33	< 0.1	4.9	< 0.05	NA	58	NA	--	--	--
	12/05/02	330	330	87	1.63	< 0.1	5.1	< 0.05	NA	54	NA	--	--	--
	08/28/02	290	290	87	0.9	0.11	5	< 0.05	NA	62	NA	--	--	--
	06/04/02	310	310	98	1.01	0.27	5	< 0.05	NA	64	NA	--	--	--
	03/06/02	310	310	100	1.0	0.22	5.2	< 0.05	NA	68	NA	--	--	--

Table A-4-1
Results of General Chemistry Analyses
Battery Howe/Wagner
Presidio of San Francisco, California

Well Name	Sample Date	Total Alkalinity	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	Total Dissolved Solids	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ SW9056	E300.0/ SW9056	E300.0/ SW9056	E353.2	E300.0/ SW9056	E160.1	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
BHWGW04	11/28/01	320	320	98	1.2	0.21	5.7	< 0.05	NA	56	NA	--	--	--
	08/30/01	300	300	110	2.2	0.21	4.9	< 0.05	NA	66	NA	--	--	--
	05/10/01	330	330	94	5.0	0.18	4.9	<0.05	NA	60	NA	--	--	--
	01/13/98	316	316	86	1.3	NA	4.6	NA	NA	57	644	--	--	--
	02/11/97	NA	NA	NA	1.7	NA	NA	NA	NA	NA	NA	--	--	--
BHWGW05	05/25/06	740	740	100	0.77	0.12	< 0.05	< 0.05	NA	84	NA	136.7	7.09	16.79
	03/16/06	790	790	100	0.78	0.13	< 0.05	< 0.05	NA	87	NA	130.1	6.96	16.98
	03/15/05	1,700	1,700	99	0.3	0.13	< 0.05	< 0.05	NA	53	NA	--	--	--
	03/18/04	730	730	100	0.7	0.14	< 0.05	< 0.05	NA	78	NA	--	--	--
	03/12/03	640	640	97	0.83	0.23	0.15	< 0.05	NA	93	NA	--	--	--
	12/09/02	620	620	96	0.22	0.11	< 0.05	< 0.05	NA	120	NA	--	--	--
	08/28/02	560	560	95	0.34	0.17	0.07	< 0.05	NA	95	NA	--	--	--
DUP0828021A	08/28/02	590	590	97	--	0.18	< 0.05	< 0.05	NA	100	NA	--	--	--
	06/05/02	660	660	110	0.75	0.25	0.08	< 0.05	NA	59	NA	--	--	--
	03/06/02	650	650	100	0.6	0.22	0.03 J	< 0.05	NA	34	NA	--	--	--
	11/28/01	640	640	110	1.3	0.24	< 0.05	< 0.05	NA	29	NA	--	--	--
	08/30/01	680	680	110	1.8	0.2	< 0.05	< 0.05	NA	31	NA	--	--	--
	05/10/01	720	720	100	6.1	0.2	0.22	< 0.05	NA	34	NA	--	--	--
	01/13/98	795	795	95	2.4	NA	< 0.5	NA	NA	36	1,070	--	--	--
	02/11/97	NA	NA	NA	2.6	NA	NA	NA	NA	NA	NA	--	--	--
HWGW100	05/25/06	590	590	23	2.39	< 0.1	1.3	< 0.05	NA	65	NA	150.1 NM	7.58	17.59
	03/15/06	700	700	37	0.52	0.11	0.71	< 0.05	NA	90	NA	-70.4	8.5	18.19
	03/15/05	1,200	1,200	57	0.2	< 0.1	0.33	< 0.05	NA	100	NA	--	--	--
	03/18/04	790	790	45	0.4	0.13	0.53	< 0.05	NA	110	NA	--	--	--
	08/21/03	NA	NA	NA	0.6	NA	NA	NA	NA	NA	NA	--	--	--
	06/10/03	770	770	46	1.42	< 0.1	0.5	< 0.05	NA	120	NA	--	--	--
	03/12/03	810	810	52	0.66	< 0.1	0.72	< 0.05	NA	120	NA	--	--	--
	06/04/02	820	820	54	1.21	0.32	0.56	< 0.05	NA	120	NA	--	--	--
	03/06/02	890	890	96	2.6	0.28	0.9	< 0.05	NA	130	NA	--	--	--
	05/10/01	880	880	130	5.3	0.27	0.51	< 0.05	NA	120	NA	--	--	--
	07/25/00	730	730	590	NM	NA	NA	NA	NA	300	2,040	--	--	--
HWGW101	05/25/06	520	520	54	1.87	0.12	1.5	< 0.05	NA	100	NA	138.7 NM	7.55	19.1
	03/15/06	510	510	52	1.78	0.1	1.5	< 0.05	NA	84	NA	-62.5	7.65	17.42
	03/15/05	530	530	58	0.9	< 0.1	1.9	< 0.05	NA	88	NA	--	--	--
	03/18/04	530	530	50	1	0.1	1.9	< 0.05	NA	100	NA	--	--	--
	08/21/03	640	640	48	1.33	0.1	1.7	< 0.05	NA	130	NA	--	--	--
	06/10/03	570	570	61	1.4	0.14	2.1	< 0.05	NA	140	NA	--	--	--
	03/12/03	550	550	90	1.47	0.15	2	< 0.05	NA	120	NA	--	--	--
	08/29/02	590	590	99	1.53	0.18	1.7	< 0.25	NA	150	NA	--	--	--
	06/04/02	460	460	100	1.31	0.28	1.8	< 0.05	NA	190	NA	--	--	--
	03/06/02	500	500	130	3.6	0.23	2.2	< 0.05	NA	120	NA	--	--	--

Table A-4-1
Results of General Chemistry Analyses
Battery Howe/Wagner
Presidio of San Francisco, California

Well Name	Sample Date	Total Alkalinity	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	Total Dissolved Solids	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ SW9056	E300.0/ SW9056	E300.0/ SW9056	E353.2	E300.0/ SW9056	E160.1	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
HWGW101	11/28/01	520	520	150	3.2	0.27	2.1	< 0.05	NA	110	NA	--	--	--
	08/30/01	540	540	150	2.2	0.26	1.8	< 0.05	NA	140	NA	--	--	--
	05/10/01	590	590	130	4	0.23	1.9	< 0.05	NA	160	NA	--	--	--
	07/25/00	530	530	280	NM	NA	NA	NA	NA	160	1,200	--	--	--

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - The QC laboratory nitrate results shown have been converted to nitrate as nitrogen (nitrate-N) as other laboratory results are reported. The QC laboratory reported nitrate as NO_3 concentrations (nitrate-NO_3) which are 4.43 times higher than nitrate-N concentrations.
mg/L - milligrams per liter
NA - not analyzed
NM - not measured
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
"--" dissolved oxygen measurements were not taken for duplicate and quality control samples.
Table 7 in the main report identifies all duplicate and split samples and associate them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.
mV - millivolts
ºC - degrees centigrade
ORP - Oxidation-reduction potential

Table A-4-2
Results of Dissolved Metals Analyses
Battery Howe/Wagner
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Chromium	Hexavalent Chromium	Iron	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Cobalt	Copper	Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
	Analytical Method[1]	SW6020	SW6020	SW7196A	SW6020																			
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
BHWGW01	05/25/06	< 100 UJ	110	NA	< 100	< 1	< 5	46	< 2	< 1	< 500 U	< 10	< 1	< 3	75,000	< 10	< 20	< 500	< 5	< 1	230,000	< 1	< 10	< 20
DUP0525063A	05/25/06	< 100 UJ	120	NA	< 100	< 1	< 5	49	< 2	< 1	< 500 U	< 10	< 1	< 3	79,000	< 10	< 20	< 500	< 5	< 1	240,000	< 1	< 10	< 20
BHWGW01CL	05/25/06	< 100 U	128	NA	< 100 U	< 2 U	< 2 U	53	< 1 U	< 1 U	19,600	< 1 U	2.3	< 1 U	88,300	< 10 U	3.5	< 5,000 U	< 2 U	< 1 U	241,000	< 1 U	< 10 U	< 20 U
	03/16/06	< 100 UJ	110	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/15/05	< 100	110	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/18/04	< 100	110	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP0318041A	03/18/04	< 100	110	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/04/03	< 100	120	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/21/03	< 100	110	NA	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/10/03	< 100	120	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/12/03	NA	NA	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/09/02	NA	NA	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/28/02	NA	NA	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/05/02	NA	NA	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP0605023A	06/05/02	NA	NA	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/06/02	NA	NA	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP0306023A	03/06/02	NA	NA	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BHWGW01CL	03/06/02	NA	NA	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/28/01	NA	NA	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP1128012A	11/28/01	NA	NA	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BHWGW01CL	11/28/01	NA	NA	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/30/01	NA	NA	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP0830011A	08/30/01	NA	NA	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/10/01	NA	NA	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/19/98	< 100	127	NA	< 100	< 5	< 5	53	< 4	< 2	20,200	< 10	21	< 3	96,200	< 10	< 20	< 5,000	< 5	< 2	250,000	< 2	< 10	24
	01/12/98	< 100	146	NA	< 100	< 5	< 5	56	< 4	< 2	20,700	< 10	< 10	< 3	98,200	< 10	< 20	< 5,000	< 5	< 2	261,000	< 2	< 10	< 20
	02/11/97	< 100	120	NA	< 100	< 5	< 5	50	< 4	< 2	20,000	< 10	< 10	< 3	99,000	< 10	< 20	< 5,000	< 5	< 2	240,000	< 2	< 10	< 20
	12/02/96	< 100	120	NA	< 100	< 5	< 5	50	< 4	< 2	20,000	< 10	< 10	< 3	97,000	< 10	< 20	< 5,000	11	< 2	270,000	< 2	< 10	< 20
	08/27/96	< 100	120	NA	< 100	< 5	< 5	50	< 2	< 0.5	20,000	< 10	< 1	< 1	94,000	< 10	< 5	< 5,000	18	< 0.5	230,000	< 2	< 10	< 20
	05/28/96	< 100	120	NA	< 100	< 5	< 5	50	< 2	< 0.5	20,000	< 10	< 1	< 1	98,000	< 10	6	< 5,000	< 5	< 0.5	240,000	< 2	< 10	20
	03/12/96	< 100	126	NA	< 100	< 5	< 5	57	< 2	< 0.5	21,300	< 10	< 1	< 1	103,000	< 10	< 5	< 5,000	< 5	< 0.5	273,000	4	< 10	< 20
	12/20/95	1,700	280	NA	5,260	< 5	7	81	< 2	< 0.5	24,000	35	9	2	126,000	402	534	< 5,000	< 5	< 0.5	284,000	< 2	< 10	64
	09/28/95	< 200	82	NA	< 100	< 60	< 5	34	< 2	< 2	17,000	< 20	< 10	< 3	69,000	< 10	< 20	< 500	< 5	< 5	210,000	< 5	< 10	< 20
	01/11/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/05/94	NA	150	161	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/07/94	49	118	220	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/25/92	635	144	NA	1,920	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BHWGW04	05/25/06	< 100 UJ	< 10	NA	< 100	< 1	< 5	37	< 2	< 1	< 500 U	< 10	< 1	< 3	39,000	< 10	< 20	< 500	< 5	< 1	140,000	< 1	< 10	< 20
	03/15/06	< 100	< 10	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/15/05	< 100	< 10	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/18/04	< 500	< 50	NA	< 500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/12/03	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table A-4-2
Results of Dissolved Metals Analyses
Battery Howe/Wagner
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Chromium	Hexavalent Chromium	Iron	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Cobalt	Copper	Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
	Analytical Method[1]	SW6020	SW6020	SW7196A	SW6020																			
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
BHWGW04	12/05/02	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/28/02	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/04/02	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/06/02	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/28/01	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/30/01	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/10/01	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/13/98	< 100	16	NA	< 100	< 5	< 5	35	< 4	< 2	17,800	< 10	< 10	< 3	51,900	< 10	< 20	< 5,000	< 5	< 2	122,000	< 2	< 10	< 20
	02/11/97	< 100	< 10	NA	< 100	< 5	< 5	40	< 4	< 2	21,000	< 10	< 10	< 3	56,000	< 10	< 20	< 5,000	< 5	< 2	150,000	< 2	< 10	< 20
	12/02/96	< 100	10	NA	< 100	< 5	< 5	40	< 4	< 2	19,000	< 10	< 10	< 3	54,000	< 10	< 20	< 5,000	9	< 2	120,000	< 2	< 10	< 20
	08/27/96	< 100	7	NA	< 100	< 5	< 5	40	< 2	< 0.5	20,000	< 10	< 1	< 1	56,000	< 10	< 5	< 5,000	8	< 0.5	110,000	< 2	< 10	< 20
	05/29/96	< 100	13	NA	< 100	< 5	< 5	30	< 2	< 0.5	19,000	< 10	< 1	1	53,000	< 10	5	< 5,000	< 5	< 0.5	130,000	< 2	< 10	< 20
	03/12/96	< 100	14	NA	< 100	< 5	< 5	40	< 2	< 0.5	20,600	< 10	< 1	1	58,800	< 10	6	< 5,000	< 5	< 0.5	135,000	< 2	< 10	< 20
	12/20/95	< 100	18	NA	< 100	< 5	< 5	40	< 2	< 0.5	18,100	< 10	3	< 1	55,400	< 10	< 5	< 5,000	< 5	< 0.5	125,000	< 2	< 10	< 20
	09/29/95	< 200	15	NA	< 100	< 60	< 5	28	< 2	< 2	16,000	< 20	< 10	< 3	51,000	< 10	< 20	< 500	< 5	< 5	110,000	< 5	< 10	< 20
	11/09/94	184 G	33	36.6	205	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/25/92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BHWGW05	05/25/06	< 100 UJ	< 10	NA	< 100	< 1	< 5	90	< 2	< 1	68,000	< 10	< 1	< 3	75,000	560	31	3,700	< 5	< 1	230,000	< 1	< 10	< 20
	03/16/06	< 100 UJ	< 10	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/15/05	< 100	< 10	NA	150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/18/04	< 100	< 10	NA	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/12/03	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/09/02	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/28/02	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP0828021A	08/28/02	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/05/02	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/06/02	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/28/01	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/30/01	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/10/01	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/13/98	< 100	< 10	NA	100	< 5	< 5	47	< 4	< 2	57,000	< 10	< 10	< 3	71,900	461	34	5,020	< 5	< 2	230,000	< 2	< 10	< 20
	02/11/97	< 100	< 10	NA	< 100	< 5	< 5	40	< 4	< 2	57,000	< 10	< 10	< 3	76,000	150	20	< 5,000	8	< 2	230,000	< 2	< 10	< 20
	12/02/96	< 100	< 10	NA	< 100	< 5	< 5	40	< 4	< 2	52,000	< 10	< 10	< 3	69,000	140	20	< 5,000	12	< 2	230,000	< 2	< 10	< 20
	08/27/96	< 100	1	NA	< 100	< 5	< 5	40	< 2	< 0.5	58,000	< 10	1	< 1	70,000	160	23	6,000	21	< 0.5	230,000	< 2	< 10	< 20
	05/29/96	< 100	< 1	NA	< 100	< 5	< 5	40	< 2	< 0.5	58,000	< 10	1	< 1	75,000	210	21	< 5,000	< 5	< 0.5	250,000	< 2	< 10	< 20
	03/12/96	< 100	2	NA	< 100	< 5	< 5	52	< 2	< 0.5	66,900	< 10	2	1	74,900	80	17	12,000	< 5	< 0.5	270,000	6	< 10	< 20
	12/20/95	< 100	< 5	NA	< 100	< 5	5	31	< 2	< 0.5	50,000	< 10	4	< 1	74,400	180	21	7,730	< 5	< 0.5	266,000	< 2	< 10	28
	09/27/95	< 200	< 10	NA	< 100	< 60	< 5	18	< 2	< 2	35,000	< 20	< 10	< 3	74,000	250	22	5,300	< 5	< 5	220,000	< 5	< 10	< 20
	11/09/94	1,480	27	16.1	2,020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/25/92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table A-4-2
Results of Dissolved Metals Analyses
Battery Howe/Wagner
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Chromium	Hexavalent Chromium	Iron	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Cobalt	Copper	Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
	Analytical Method[1]	SW6020	SW6020	SW7196A	SW6020																			
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
HWGW100	05/25/06	< 100 UJ	24	NA	< 100	< 1	7.8	< 10	< 2	< 1	< 500 U	< 10	1.4	< 3	49,000	< 10	< 20	2,900	< 5	< 1	220,000	< 1	< 10	< 20
	03/15/06	< 100	32	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/15/05	< 100	33	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/18/04	< 100	49	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/10/03	< 100	46	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/12/03	NA	NA	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/04/02	NA	NA	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/06/02	NA	NA	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/10/01	NA	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/25/00	NA	NA	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HWGW101	05/25/06	< 100 UJ	23	NA	< 100	< 1	< 5	< 10	< 2	< 1	< 500 U	< 10	< 1	< 3	26,000	< 10	< 20	1600	< 5	< 1	260,000	< 1	< 10	< 20
	03/15/06	< 100	22	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/15/05	< 100	27	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/18/04	< 100	35	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/21/03	< 100	35	NA	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/10/03	< 100	35	NA	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/12/03	NA	NA	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/29/02	NA	NA	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/04/02	NA	NA	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/06/02	NA	NA	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/28/01	NA	NA	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/30/01	NA	NA	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/10/01	NA	NA	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/25/00	NA	NA	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes

1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.

µg/L - micrograms per liter
NA - not analyzed
ND - not detected
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Groundwater samples collected from all site monitoring wells were field filtered and analyzed for dissolved metals.
Table 7 in the main report identifies all duplicate and split samples and associate them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-4-3
Results of VOC Analyses
Battery Howe/Wagner
Presidio of San Francisco, California

Well Name	Sample Date	Volatile Organic Compounds (VOCs)						
		1,1-DCE	Benzene	Carbon Tetrachloride	Chloroform	MTBE	Toluene	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
BHWGW01	03/16/06	< 0.5	< 0.5	1.1	0.7	< 0.5	< 0.5	ND
	03/15/05	< 0.5	< 0.5	1.1	0.7	< 0.5	< 0.5	ND
	03/18/04	< 0.5	< 0.5	1.3	0.9	< 0.5	< 0.5	ND
DUP0318041A	03/18/04	< 0.5	< 0.5	1.3	0.9	< 0.5	< 0.5	ND
	12/04/03	< 0.5	< 0.5	1.3	0.8	< 0.5	< 0.5	ND
	08/21/03	< 0.5	< 0.5	1	0.7	< 0.5	< 0.5	ND
	06/10/03	< 0.5	< 0.5	2.2	0.8	< 0.5	< 0.5	ND
	03/12/03	< 0.5	< 0.5	1.3	< 0.5	< 0.5	< 0.5	ND
	12/09/02	< 0.5	< 0.5	1.1	0.7	< 0.5 UJ	< 0.5	ND
	08/28/02	< 0.5	< 0.5	1.1	0.7	< 0.5	< 0.5	ND
	06/05/02	< 0.5	< 0.5	1.4	0.7	< 0.5	< 0.5	ND
DUP0605023A	06/05/02	< 0.5	< 0.5	1.4	0.7	< 0.5	< 0.5	ND
	03/06/02	< 0.5	< 0.5	0.9	0.9	< 0.5	< 0.5	ND
DUP0306023A	03/06/02	< 0.5	< 0.5	0.8	0.8	< 0.5	< 0.5	ND
BHWGW01CL	03/06/02	< 0.5	< 0.5	1.6	< 1	< 5	< 0.5	ND
	11/28/01	< 0.5	< 0.5	1.1	0.8	< 0.5	< 0.5	ND
DUP1128012A	11/28/01	< 0.5	< 0.5	1.2	0.7	< 0.5	< 0.5	ND
BHWGW01CL	11/28/01	< 0.5	< 0.5	1.1	< 1	< 5	< 0.5	ND
	08/30/01	< 0.5	< 0.5	1.4	0.9	< 0.5	< 0.5	ND
DUP0830011A	08/30/01	< 0.5	< 0.5	1.3	0.9	< 0.5	< 0.5	ND
	05/10/01	< 0.5	< 0.5	1.4	1	< 0.5	< 0.5	ND
	11/19/98	< 0.5	< 0.5	1.1	0.77	NA	< 0.5	ND
	01/12/98	< 0.5	< 0.5	1.3	0.77	NA	< 0.5	ND
	02/11/97	< 0.5	< 0.5	1.1	0.7	NA	< 0.5	ND
	12/02/96	< 0.5	< 0.5	1.2	0.7	NA	< 0.5	ND
	08/27/96	< 0.5	< 0.5	0.8	0.6	NA	2.8	ND
	05/28/96	< 0.5	< 0.5	1.1	0.9	NA	< 0.5	ND
	03/12/96	< 0.5	< 0.5	0.8	0.5	NA	< 0.5	ND
	12/20/95	< 0.5	< 0.5	0.9	< 0.5	NA	< 0.5	ND
	09/28/95	< 0.5	< 0.5	1.1	< 0.5	NA	< 0.5	ND
	01/11/95	NA	NA	NA	0.68	NA	NA	ND
	12/05/94	NA	NA	NA	NA	NA	NA	NA
	11/07/94	NA	NA	NA	NA	NA	NA	NA
	08/25/92	NA	NA	0.87	NA	NA	NA	NA
BHWGW04	03/15/06	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/15/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/18/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/12/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/28/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/06/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/28/01	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/30/01	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND

Table A-4-3
Results of VOC Analyses
Battery Howe/Wagner
Presidio of San Francisco, California

Well Name	Sample Date	Volatile Organic Compounds (VOCs)						
		1,1-DCE	Benzene	Carbon Tetrachloride	Chloroform	MTBE	Toluene	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
BHWGW04	05/10/01	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	01/13/98	NA	NA	NA	NA	NA	NA	NA
	02/11/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/02/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	08/27/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	05/29/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	03/12/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/20/95	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	09/29/95	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	11/09/94	NA	NA	NA	NA	NA	NA	NA
	08/25/92	NA	NA	< 0.07	NA	NA	NA	NA
BHWGW05	03/16/06	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/15/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/18/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/12/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	ND
	08/28/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0828021A	08/28/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/06/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/28/01	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/30/01	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/10/01	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	01/13/98	NA	NA	NA	NA	NA	NA	NA
	02/11/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/02/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	08/27/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	05/29/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	03/12/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/20/95	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	09/27/95	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	11/09/94	NA	NA	NA	NA	NA	NA	NA
	08/25/92	NA	NA	< 0.07	NA	NA	NA	NA
HWGW100	03/15/06	3	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/15/05	2.3	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/18/04	2.9	0.1 J	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/10/03	2.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/12/03	2.4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/04/02	1.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/06/02	1.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/10/01	1.7	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	07/25/00	< 5	< 5	< 1	< 1	< 0.5	< 1	ND

Table A-4-3
Results of VOC Analyses
Battery Howe/Wagner
Presidio of San Francisco, California

Well Name	Sample Date	Volatile Organic Compounds (VOCs)						
		1,1-DCE	Benzene	Carbon Tetrachloride	Chloroform	MTBE	Toluene	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
HWGW101	03/15/06	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/15/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/18/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/21/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/10/03	< 0.5	< 0.5	1.5	< 0.5	< 0.5	< 0.5	ND
	03/12/03	< 0.5	< 0.5	0.5	< 0.5	< 0.5	< 0.5	ND
	08/29/02	< 0.5	< 0.5	0.7	< 0.5	< 0.5	< 0.5	ND
	06/04/02	< 0.5	< 0.5	0.6	< 0.5	< 0.5	< 0.5	ND
	03/06/02	< 0.5	< 0.5	1.1	< 0.5	< 0.5	< 0.5	ND
	11/28/01	< 0.5	< 0.5	0.6	< 0.5	< 0.5	< 0.5	ND
	08/30/01	< 0.5	< 0.5	1	< 0.5	< 0.5	< 0.5	ND
	05/10/01	< 0.5	< 0.5	0.7	< 0.5	< 0.5	< 0.5	ND
	07/25/00	< 5	< 5	2.5	< 1	< 0.5	< 1	ND

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during pre quarterly reports.
µg/L - micrograms per liter
NA - not analyzed
ND - not detected
VOC - volatile organic compound
1,1-DCE - 1,1-dichloroethene
MTBE - methyl tert-butyl ether
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Groundwater samples collected from all site monitoring wells were field filtered and analyzed for dissolved metals.
Table 7 in the main report identifies all duplicate and split samples and associate them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-4-4
Groundwater Elevation Summary
Battery Howe/Wagner
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
BHWGW01	05/22/06	17.39	178.04	160.65	MW
	03/06/06	15.19	178.04	162.85	MW
	11/28/05	21.69	178.04	156.35	MW
	08/29/05	20.40	178.04	157.64	MW
	05/23/05	17.32	178.04	160.72	MW
	03/14/05	16.18	178.04	161.86	MW
	12/13/04	20.65	178.04	157.39	MW
	08/09/04	22.18	178.04	155.86	MW
	05/24/04	20.91	178.04	157.13	MW
	03/08/04	17.15	178.04	160.89	MW
	12/01/03	23.10	178.04	154.94	MW
	08/11/03	21.46	178.04	156.58	MW
	06/02/03	19.39	178.04	158.65	MW
	03/10/03	19.06	178.04	158.98	MW
	12/02/02	22.90	178.04	155.14	MW
	08/26/02	21.85	178.04	156.19	MW
	05/28/02	19.95	178.04	158.09	MW
	03/04/02	17.71	178.04	160.33	MW
	11/26/01	22.75	178.04	155.29	MW
	08/27/01	23.15	178.04	154.89	MW
	05/08/01	20.63	178.04	157.41	MW
BHWGW04	05/22/06	10.99	197.73	186.74	MW
	03/06/06	12.88	197.73	184.85	MW
	11/28/05	14.14	197.73	183.59	MW
	08/29/05	23.37	197.73	174.36	MW
	05/23/05	13.54	197.73	184.19	MW
	03/14/05	13.64	197.73	184.09	MW
	12/13/04	14.97	197.73	182.76	MW
	08/09/04	16.04	197.73	181.69	MW
	05/24/04	15.77	197.73	181.96	MW
	03/08/04	15.45	197.73	182.28	MW
	12/01/03	18.08	197.73	179.65	MW
	08/11/03	15.72	197.73	182.01	MW
	06/02/03	15.57	197.73	182.16	MW
	03/10/03	16.30	197.73	181.43	MW
	12/02/02	18.14	197.73	179.59	MW
	08/26/02	16.35	197.73	181.38	MW
	05/28/02	14.15	197.73	183.58	MW
	03/04/02	12.55	197.73	185.18	MW
	11/26/01	17.33	197.73	180.40	MW
	08/27/01	16.95	197.73	180.78	MW
	05/08/01	14.43	197.73	183.30	MW
BHWGW05	05/22/06	27.85	202.95	175.10	MW
	03/06/06	27.58	202.95	175.37	MW
	11/28/05	28.35	202.95	174.60	MW
	08/29/05	28.01	202.95	174.94	MW
	05/23/05	26.58	202.95	176.37	MW
	03/14/05	27.06	202.95	175.89	MW
	12/13/04	28.05	202.95	174.90	MW
	08/09/04	29.35	202.95	173.60	MW
	05/24/04	29.27	202.95	173.68	MW
	03/08/04	28.46	202.95	174.49	MW
	12/01/03	29.66	202.95	173.29	MW

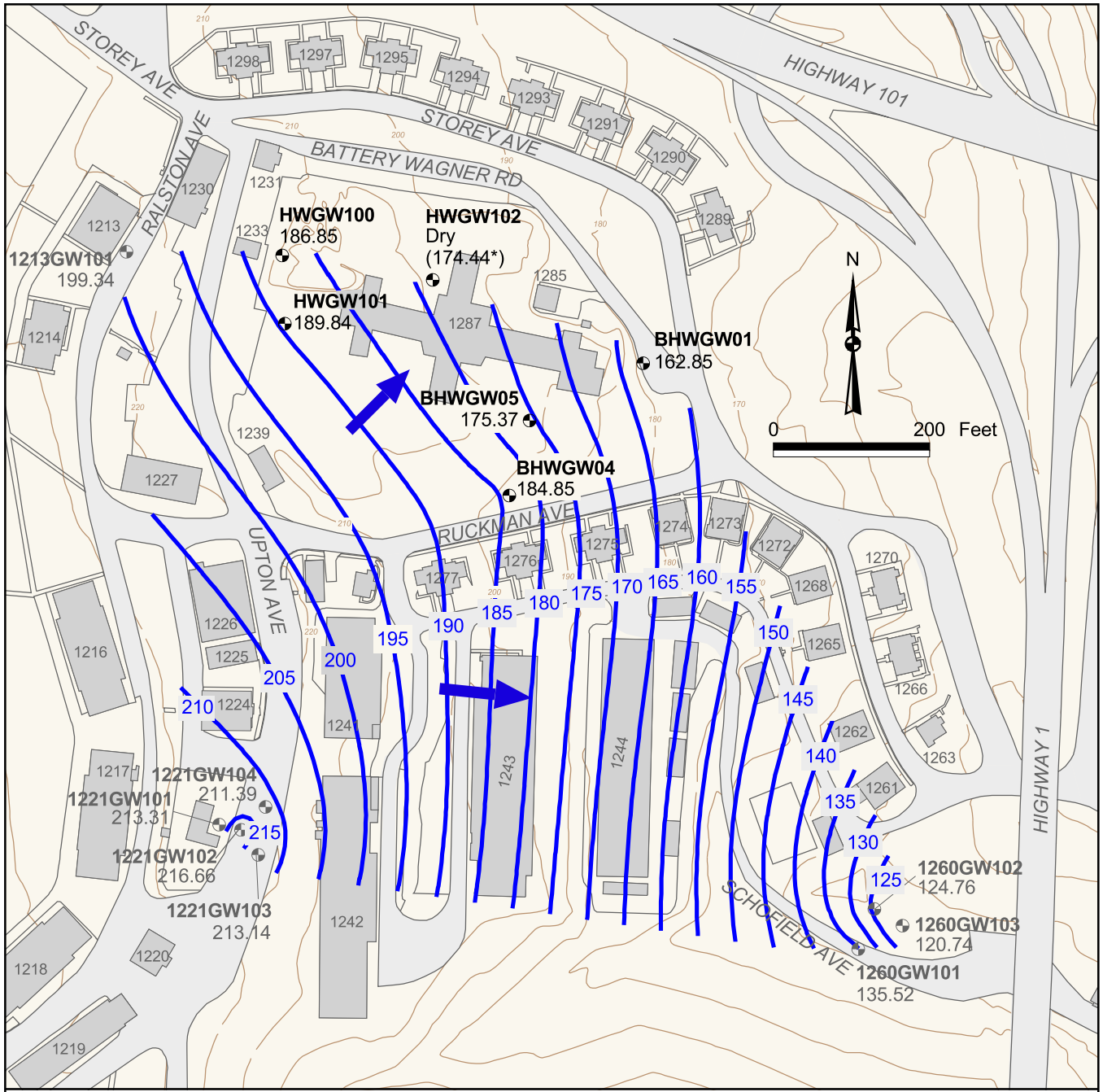
Table A-4-4
Groundwater Elevation Summary
Battery Howe/Wagner
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
BHWGW05	08/11/03	29.19	202.95	173.76	MW
	06/02/03	29.18	202.95	173.77	MW
	03/10/03	29.39	202.95	173.56	MW
	12/02/02	30.13	202.95	172.82	MW
	08/26/02	29.25	202.95	173.70	MW
	05/28/02	28.10	202.95	174.85	MW
	03/04/02	27.33	202.95	175.62	MW
	11/26/01	30.11	202.95	172.84	MW
	08/27/01	29.56	202.95	173.39	MW
	05/08/01	28.20	202.95	174.75	MW
HWGW100	05/22/06	19.71	209.68	189.97	MW
	03/06/06	22.83	209.68	186.85	MW
	11/28/05	27.92	209.68	181.76	MW
	08/29/05	24.24	209.68	185.44	MW
	05/23/05	20.75	209.68	188.93	MW
	03/14/05	23.68	209.68	186.00	MW
	12/13/04	29.63	209.68	180.05	MW
	08/09/04	28.15	209.68	181.53	MW
	05/24/04	26.37	209.68	183.31	MW
	03/08/04	25.90	209.68	183.78	MW
	12/01/03	Dry	209.68	178.68 [2]	MW
	08/11/03	28.13	209.68	181.55	MW
	06/02/03	27.32	209.68	182.36	MW
	03/10/03	26.78	209.68	182.90	MW
	12/02/02	Dry	209.68	178.68 [2]	MW
	08/26/02	28.19	209.68	181.49	MW
	05/28/02	26.00	209.68	183.68	MW
	03/04/02	26.40	209.68	183.28	MW
	11/26/01	Dry	209.68	178.68 [2]	MW
	08/27/01	Dry	209.68	178.68 [2]	MW
	05/08/01	28.81	209.68	180.87	MW
HWGW101	05/22/06	22.52	214.24	191.72	MW
	03/06/06	24.40	214.24	189.84	MW
	11/28/05	28.34	214.24	185.90	MW
	08/29/05	26.22	214.24	188.02	MW
	05/23/05	23.43	214.24	190.81	MW
	03/14/05	25.22	214.24	189.02	MW
	12/13/04	29.52	214.24	184.72	MW
	08/09/04	28.31	214.24	185.93	MW
	05/24/04	26.71	214.24	187.53	MW
	03/08/04	26.33	214.24	187.91	MW
	12/01/03	29.85	214.24	184.39	MW
	08/11/03	27.33	214.24	186.91	MW
	06/02/03	25.78	214.24	188.46	MW
	03/10/03	26.88	214.24	187.36	MW
	12/02/02	29.80	214.24	184.44	MW
	08/26/02	28.10	214.24	186.14	MW

Table A-4-4
Groundwater Elevation Summary
Battery Howe/Wagner
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
HWGW101	05/28/02	26.05	214.24	188.19	MW
	03/04/02	26.40	214.24	187.84	MW
	11/26/01	30.22	214.24	184.02	MW
	08/27/01	29.09	214.24	185.15	MW
	05/08/01	27.33	214.24	186.91	MW
HWGW102	05/22/06	Dry	211.44	174.44 [2]	MW
	03/06/06	Dry	211.44	174.44 [2]	MW
	11/28/05	Dry	211.44	174.44 [2]	MW
	08/29/05	Dry	211.44	174.44 [2]	MW
	05/23/05	Dry	211.44	174.44 [2]	MW
	03/14/05	Dry	211.44	174.44 [2]	MW
	12/13/04	Dry	211.44	174.44 [2]	MW
	08/09/04	Dry	211.44	174.44 [2]	MW
	05/24/04	Dry	211.44	174.44 [2]	MW
	03/08/04	Dry	211.44	174.44 [2]	MW
	12/01/03	Dry	211.44	174.44 [2]	MW
	08/11/03	Dry	211.44	174.44 [2]	MW
	06/02/03	Dry	211.44	174.44 [2]	MW
	03/10/03	Dry	211.44	174.44 [2]	MW
	12/02/02	Dry	211.44	174.44 [2]	MW
	08/26/02	Dry	211.44	174.44 [2]	MW
	05/28/02	Dry	211.44	174.44 [2]	MW
	03/04/02	Dry	211.44	174.44 [2]	MW
	11/26/01	Dry	211.44	174.44 [2]	MW
	08/27/01	Dry	211.44	174.44 [2]	MW
	05/08/01	Dry	211.44	174.44 [2]	MW

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
2 - Elevation indicates bottom of casing elevation.
MW - Monitoring Well
feet PLLW - feet above Presidio Lower Low Water vertical datum.



LEGEND

- Approximate Direction of Groundwater Flow
- Groundwater Contour (Contour Interval : 5 ft)
- Topographic Contour (Contour Interval : 10 ft)
- 1287 — Building and Number
- **HWGW101** 189.84 — Groundwater Monitoring Well March 2006 Groundwater Elevation
- (174.44*) — Value Indicates Bottom of Casing Elevation in Feet PLLW
- **1213GW101** 199.34 — Adjacent Study Area Well March 2006 Groundwater Elevation

Notes:
Groundwater elevation data collected on 6 March 2006.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

BATTERY HOWE/WAGNER SITE PLAN AND 6 MARCH 2006 GROUNDWATER ELEVATION MAP

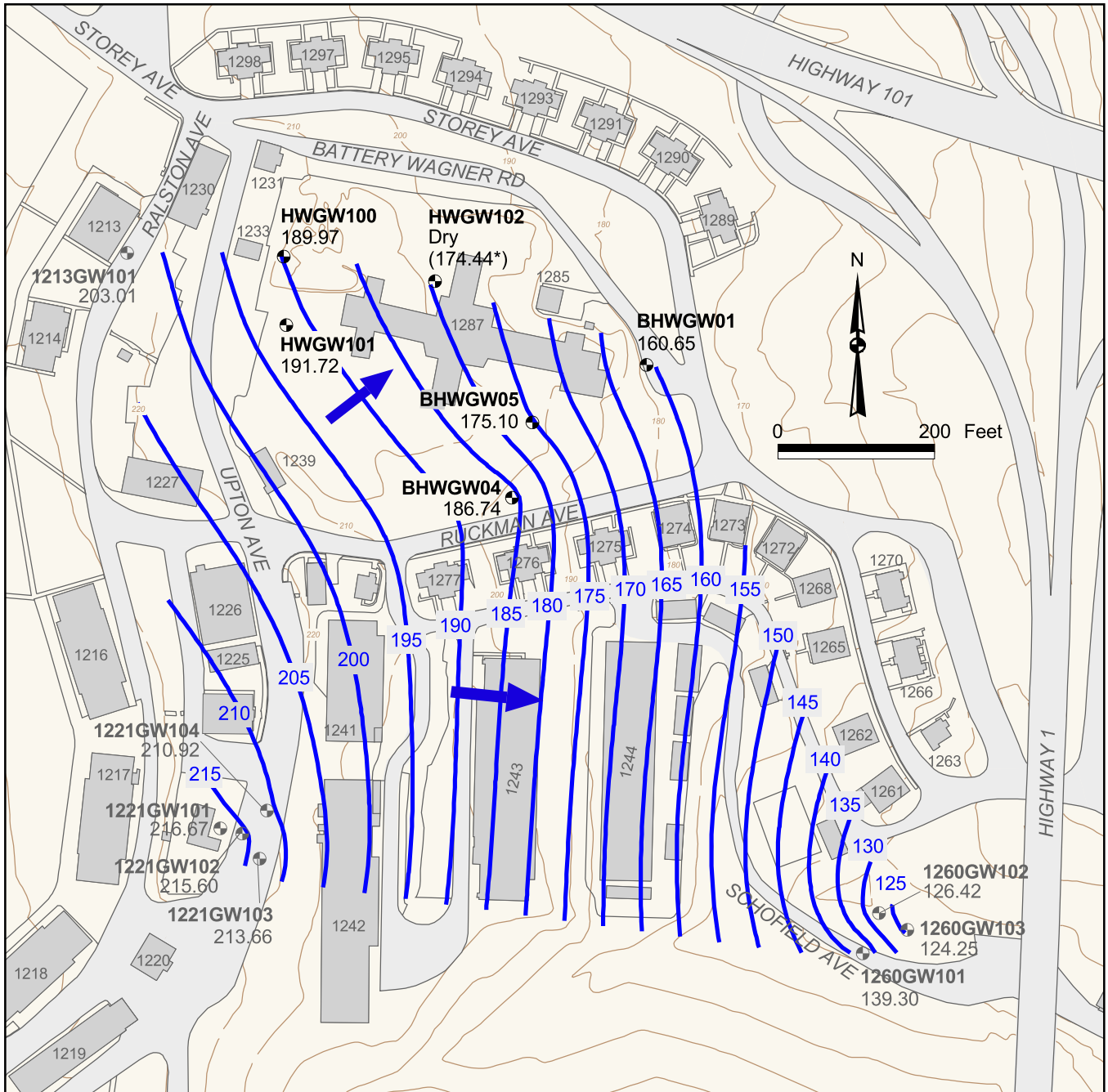
Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 561-5315
October 2006

FIGURE A-4-1

Treadwell & Rollo 2893_04\Q2_2006\A_04_A12.APR 10/2006



LEGEND

- Approximate Direction of Groundwater Flow
- Groundwater Contour (Contour Interval : 5 ft)
- Topographic Contour (Contour Interval : 10 ft)
- 1287 Building and Number
- **HWGW101** 191.72 — Groundwater Monitoring Well May 2006 Groundwater Elevation
- (174.44*) — Value Indicates Bottom of Casing Elevation in Feet PLLW
- **1213GW101** 203.01 — Adjacent Study Area Well May 2006 Groundwater Elevation

Notes:
Groundwater elevation data collected on 22 May 2006.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

BATTERY HOWE/WAGNER SITE PLAN AND 22 MAY 2006 GROUNDWATER ELEVATION MAP

Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 561-5315
October 2006

FIGURE A-4-2

Treadwell & Rollo 2893_04\Q2_2006\A_04_A12.APR 10/2006

First Quarter 2006

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BHG
Well No.: BHWGW01
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: B Pound
Sampled by: B Pound
Date: 3/16/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 28.26

Depth to Water (WL, ft. below TOC): 14.44

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Normal [ ] Modified (max 5 gpm)

[ ] Bailer \ Type
[X] Pump \ Type 2" grundfos
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) 27'
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 18 min

Recharge Rate: 400 mL/min

Purge Rate: 500 mL/min

3.0 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI / Hach

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
954	/	1.5	7.79	15.44	1.11	1.330	61.4	6.64	DTW=14.56
957	/	3.0	7.78	15.69	0.93	1.336	52.0	4.46	DTW=14.79
1000	/	4.5	7.78	16.06	0.88	1.349	42.8	3.58	DTW=14.98
1003	/	6.0	7.78	16.39	0.88	1.358	35.2	3.45	DTW=15.06
1006	/	7.5	7.77	16.42	0.84	1.362	30.9	3.42	DTW=15.12
1009	/	9.0	7.76	16.55	0.84	1.366	28.1	3.37	DTW=15.16
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments

Purge water storage/disposal: [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/16/06 / 1015

Purging Equipment: Pump - Type: 2" grundfos Bailer - Type: Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BHWGW01	3 x 40 mL	C-T	2047	
	1 x HNO3			filtered
	1 x 1 L			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BHG
Well No.: ~~BHW04~~ BHWGW04
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: B Crow
Sampled by: B Crow
Date: 3/15/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 27.66

Depth to Water (WL, ft. below TOC): 11.89

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Normal [ ] Modified (max 5 gpm)
[ ] Bailer \ Type
[X] Pump \ Type 2" grundfos
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) 26'
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time 18 min

Recharge Rate 400 ml/min Purge Rate 500 ml/min

7.2 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI 556

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1552	/	1.5	7.36	16.45	1.01	0.801	-12.9	6.81	DTW = 12.37
1555	/	3.0	7.40	16.43	0.96	0.797	-24.7	5.61	DTW = 12.59
1558	/	4.5	7.42	16.52	0.96	0.797	-34.2	5.86	DTW = 12.65
1601	/	6.0	7.42	16.58	0.94	0.797	-41.4	5.77	DTW = 12.68
1604	/	7.5	7.42	16.66	0.92	0.798	-46.6	5.59	DTW = 12.70
1607	/	9.0	7.39	16.66	0.90	0.798	-47.3	5.68	DTW = 12.71
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/15/06 1615

Purging Equipment: Pump - Type 2" grundfos Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BHWGW04	3 x 40mL	C+T	2043	
	1 x 1L Poly			
	1 x HNO3	L		Filtered

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BHW
Well No.: BHWGW05
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: B Brown
Sampled by: B Brown
Date: 3/16/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 35.30

Depth to Water (WL, ft. below TOC): 26.10

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type 2" grundfos
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) 35'
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 24

Recharge Rate: 400 ml/min Purge Rate: 500 ml/min

70 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 / Horiba

Time	/	Liters or Gallons	pH	Temp (C) °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
856	/	1.5	6.81	15.66	0.47	1.384	96.5	7.89	DTW=26.71
854	/	3.0	6.92	16.36	0.33	1.402	83.1	8.31	DTW=27.02
902	/	4.5	6.95	16.61	0.55	1.408	61.0	8.74	DTW=27.46
905	/	6.0	6.96	16.78	0.84	1.406	50.8	8.63	DTW=27.60
908	/	7.5	6.93	16.90	0.85	1.402	108.9	8.42	DTW=27.78
911	/	9.0	6.94	16.93	0.73	1.398	126.7	8.09	DTW=27.84
914	/	10.5	6.93	16.97	0.76	1.396	132.3	8.21	DTW=27.87
917	/	12.0	6.96	16.98	0.78	1.392	130.1	8.10	DTW=27.89
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/16/06 / 920

Purging Equipment: Pump - Type 2" grundfos Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BHWGW05	3 x 40 ml	CET	2047	
	1 x 1 L Poly	/		
	1 x ~~H2SO4~~ HNO3	—		Filtered

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BHW | Well No.: HWGW100

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: B Prom | Sampled by: B Prom | Date: 3/15/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 30.00

Depth to Water (WL, ft. below TOC): 22.15

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Normal [ ] Modified (max 5 gpm) [ ] Bailer \ Type [X] Pump \ Type 2" Grundfos [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft) [X] Near Bottom Depth (ft) 28' [ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 16 min

Recharge Rate: 200 ml/min | Purge Rate: 250 ml/min

1.0 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556

Time	/ Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1401	/ 1.0	8.5	16.54	0.44	1.659	-47.7	6.71	DTW=22.70
1404	/ 2.0	8.5	16.83	0.44	1.627	-56.9	5.44	DTW=23.23
1407	/ 3.0	8.4	17.79	0.51	1.334	-72.0	5.31	DTW=23.62
1410	/ 4.0	8.5	18.08	0.53	1.330	-69.1	5.58	DTW=23.68
1413	/ 5.0	8.5	18.19	0.52	1.329	-70.4	5.42	DTW=23.73
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							

Comments: Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 3/15/06 1420

Purging Equipment: Pump - Type 2" Grundfos Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
HWGW100	3 x 40 mL	CT	2043	
	1 x HNO_3			filtered
	1 x 1L poly			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BHW | Well No.: HWGW101

Project Number: 2843 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: B Crow | Sampled by: B Crow | Date: 5/15/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 31.04

Depth to Water (WL, ft. below TOC): 23.90

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Normal [ ] Modified (max 5 gpm)

[ ] Bailer \ Type

[X] Pump \ Type 2" Grundfos

[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[X] Near Bottom Depth (ft) 30'

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate 500 ml/min

2.0 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI 556

Time	/ Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1458	/ 1.5	7.76	16.70	1.84	~~0.60~~ 0.962	-57.0	10.8	DTW = 24.42
1501	/ 3.0	7.70	16.59	1.82	0.968	-59.0	9.16	DTW = 24.81
1504	/ 4.5	7.71	16.84	1.84	0.966	-68.4	8.32	DTW = 24.95
1507	/ 6.0	7.64	17.26	1.81	0.983	-65.4	8.13	DTW = 25.00
1510	/ 7.5	7.65	17.42	1.78	0.988	-62.5	8.20	DTW = 25.03
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							

Comments: Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/15/06 / 1520

Purging Equipment: Pump - Type 2" Grundfos | Bailer - Type | Other

Sample Filtered: (Yes) No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
HWGW101	3 x 40 mL	CLF	2043	
	1 x 1 L poly			
	1 x HNO3			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	HW GW101RB04 @ 1530
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BHW
Well No.: ~~B~~ HWGW102
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: B Brown
Sampled by: —
Date: 3/15/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 36.80
Depth to Water (WL, ft. below TOC): dry
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged
[ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/ Well	Dry						
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments
Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled /

Purging Equipment: Pump - Type Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Second Quarter 2006

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Battery House
Well No.: BHWGW05
Project Number: 2843
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: J. Delany
Sampled by: J. DeJon
Date: 5/25/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 35.34

Depth to Water (WL, ft. below TOC): 26.90

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type 2"
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[X] Other 31

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate ~200ml/min

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type HACH, YSI 556

Time	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	DTW	Comments
1234	Began Purg								
1237	600ml	7.08	16.71	1.34	1.65	138.1	3	27.12	Clear
1240	1200ml	7.09	16.67	0.82	1.71	137.6	7	27.41	
1243	1800ml	7.09	16.70	0.75	1.73	137.6	4	27.59	
1246	2400ml	7.09	16.79	0.77	1.73	136.7	3	27.71	

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/25/06 1250

Purging Equipment: Pump - Type 2" Bailer - Type Other

Sample Filtered: Yes/No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BHWGW05	1 poly HNO3	CAT	2114	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Battery HOWE
Well No.: BHWG-W04
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: J. DeJong
Sampled by: J. DeJong
Date: 5/25/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 27.69

Depth to Water (WL, ft. below TOC): 11.57

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type 2"
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[X] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate ~200ml/min

3000ml gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI, YI, Acti

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	DTW	Comments
1150 / Begun	Purge							
1153 / 600ml	7.24	17.67	1.87	1.02	133.4	10	11.75	clear
1156 / 1200ml	7.19	17.00	1.40	1.01	133.9	4	11.91	
1159 / 1800ml	7.18	16.81	1.09	1.00	130.2	3	12.10	
1202 / 2400ml	7.17	16.70	1.06	1.00	129.0	2	12.21	
1205 / 3000ml	7.17	16.40	1.06	1.00	129.2	3	12.31	

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Bakertanks

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/25/06 / 1210

Purging Equipment: Pump - Type 2" Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BHWGW04	1L poly	CET	2114	
↓	1 HNO3	↓		

QUALITY CONTROL SAMPLES

Rinse Blank taken B/w BHWGW04 & 05 ~~ID BHWGW04RB06~~

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

ID BHWGW04RB05 1215

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Battery Howe
Well No.: HWGW02
Project Number: 2983
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: J. DeJong
Sampled by: J. DeJong
Date: 5/25/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 35.80
Depth to Water (WL, ft. below TOC): —
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged
[ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.69
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate Purge Rate gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1128 /							
/ Well is Dry							No Sample
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments
Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled /

Purging Equipment: Pump - Type Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Battery Howe
Well No.: HWGW101
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: J. DeJong
Sampled by: J. DeJong
Date: 5/25/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 71.07

Depth to Water (WL, ft. below TOC): 22.76

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type 2"
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[X] Other 26

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate ~200ml/min

3000ml ~~gals~~ ACTUAL PURGE VOLUME ~~3000~~ ml

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI556, HACH

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	DTW	Comments
1104 / Began Purge								
1107 / 600	7.55	18.84	2.41	1.30	145.5	42	23.21	Clear
1110 / 1200	7.55	18.68	2.31	1.30	144.5	44	23.39	↓
1113 / 1800	7.56	19.02	1.85	1.30	141.3	48	23.50	↓
1116 / 2400	7.55	19.11	1.84	1.30	140.0	47	23.55	↓
1119 / 3000	7.55	19.10	1.87	1.30	138.7	44	23.55	↓

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/25/06 / 1125

Purging Equipment: Pump - Type 2" Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
HWGW101	1 L poly	GT	2114	
↓	1 HNO3	↓		

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Battery House
Well No.: HWGW100
Project Number: 2873
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: J. DeJong
Sampled by: J. DeJong
Date: 5/25/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 30.03
Depth to Water (WL, ft. below TOC): 19.32
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged
[ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type 2"
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[X] Other 25'

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate
Purge Rate 200ml/min

2400ml ~~gals~~ ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI 556, HACH

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	DTW	Comments
1028 Began purge								
1031 / 600ml	7.63	17.48	2.16	1.55	156.2	59	20.11	Clear
1034 / 1200ml	7.59	17.63	2.23	1.49	152.2	79	20.63	
1037 / 1800ml	7.59	17.52	2.31	1.40	151.5	67	20.73	↓
1040 / 2400ml	7.58	17.59	2.39	1.38	150.1	69	20.82	

Comments
Purge water storage/disposal [ ] Drummed onsite [X] Other Baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 5/25/06 / 1045

Purging Equipment (Pump) Type 2" Bailer - Type Other
Sample Filtered: (Yes) No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
HWGW100	1 poly	CET	2114	
↓	1 HNO3	↓		

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Battery HOWE
Well No.: BH WGW01
Project Number: 7893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: J. DeJong
Sampled by: J. DeJong
Date: 5/25/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[ ] ~~2-inch~~ [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 28.30
Depth to Water (WL, ft. below TOC): 17.86
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged
[ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD
[X] Low Flow [ ] Baller \ Type
[ ] Normal [X] Pump \ Type 2"
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE
[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[X] Other 23'

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate
Purge Rate 200 ml/min

2400 ml ~~gals~~ ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI 556, HACH

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	DTW	Comments
0903 / Began purge								
0906 / 600ml	7.79	17.58	1.33	1.79	169.4	4	17.86	clear
0909 / 1200ml	7.79	17.34	0.92	1.72	164.2	4	17.89	
0912 / 1800ml	7.80	17.43	0.91	1.72	160.6	3	17.81	
0915 / 2400ml	7.80	17.42	0.92	1.72	158.6	4	17.81	

Comments
Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 5/25/06 / 0920

Purging Equipment: Pump - Type 2" Baller - Type Other
Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BHWGW01	1L poly x2 pH-	Cett	2114	
↓	1 HNO3 ↓	↓		

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
BHWGW01	~~Dup0525063A~~ Dup0525063A @0925 BHWGW01CV

↑ split sample ID

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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BUILDING 1349 STUDY AREA
APPENDIX SECTION A-5
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2006
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

The Building 1349 Study Area is located in the western portion of the Presidio (Figure 1). Building 1349 is east of Washington Boulevard, west of Harrison Boulevard, and south of Kobbe Avenue (Figure A-5-1). The Building 1349 Area is approximately 310 to 320 feet above the PLLW datum.

Building 1349 was a 100,000-gallon steel aboveground storage tank (AST) built in the 1950s and used in the base-wide fuel distribution system (FDS). The Building 1349 location (Figure A-5-1) was previously occupied by an AST of similar volume, which was built in 1906. A network of pipelines distributed the fuel to various areas throughout the Presidio. Use of the FDS was stopped in the early 1960s and the pipelines were left in place. The Army began an FDS pipeline removal and abandonment project in 1996, which removed most of the FDS pipelines. After the FDS was taken out of service, the AST associated with the FDS was used to store diesel fuel, which was off-loaded to tanker trucks for transportation to various locations in the Presidio (Montgomery Watson, 1996c). The International Technology Corporation (IT) removed Building 1349 in 1996. The Building 1349 monitoring wells are associated with former fueling operations at the Building 1349 Area.

Since the Second Quarter 2001, existing Building 1349 wells have been sampled and analyzed for general chemistry parameters, TPH, VOCs, OCPs, PCBs, PAHs, TDS, chlorinated herbicides, and/or dissolved metals. Summaries of the analytical results are presented in Tables A-5-1 through A-5-7.

The *Final Corrective Action Plan, Building 1349 Study Area, Presidio of San Francisco* (CAP) (BBL, 2006) was submitted to the stakeholders in February 2006. Groundwater sampling at the Building 1349 Area will be conducted in accordance with the CAP following the CAP's implementation. The recommended corrective actions for the Building 1349 Area are discussed in Section 3.0. Cleanup levels proposed in the CAP are presented in Tables A-5-2 through A-5-7 and in Table 3-2 from the CAP.

2.0 SITE DESCRIPTION AND GEOLOGY

The Building 1349 Area is located on a topographic high point on the boundary of the Marina Groundwater Basin and the Coastal Bluffs Groundwater Basin (Figures 1 and A-5-1). Surface

and groundwater flow directions vary across the Building 1349 site. Building 1349 monitoring wells 1394MW103, 1349MW104 and 1349MW105 are located within the Marina Groundwater Basin. The six remaining Building 1349 wells are located within the Coastal Groundwater Basin.

Since the Second Quarter 2001, groundwater depths beneath the site in wells located in the Coastal Groundwater Basin have ranged from approximately 23 to 38 feet bgs. Groundwater flow direction at Building 1349 follows the general topographic trend. Previous groundwater elevation measurements indicate that groundwater beneath the western part of the site consistently flows to the west and southwest towards Fill Site 5 (FS 5) within the Coastal Groundwater Basin (Table A-5-8). Groundwater elevation measurements from wells 1349MW103, 1349MW104, and 1349MW105 indicate that groundwater in this area generally flows in a northeasterly direction within the Marina Groundwater Basin (Table A-5-8) though a northwesterly flow direction was present in the Fourth Quarter 2003 and Third and Fourth Quarters 2004.

Soil units beneath most of the Building 1349 Area consist of Quaternary slope debris and ravine fill. Siltstone, sandstone, shale, and serpentinite of the Franciscan Formation underlie the Quaternary deposits. The slope debris and ravine fill layer is highly variable, consisting of differing combinations and percentages of silts, clays, sands, and gravels and varying in thickness from less than 5 to over 25 feet.

A high-resolution seismic reflection study was previously conducted by Montgomery Watson at the study area (Montgomery Watson, 1996b). The purpose of the study was to assess the depth to bedrock and whether seismic faults and fractures at the site could affect subsurface migration of contaminants. The study identified eight bedrock lineaments or weak zones that transect the site. Treadwell and Rollo conducted a two phase Site Investigation (SI) in 2002 and 2003. Based on the field observations from the first phase of the SI (Phase I SI) and previous boring logs, the underlying bedrock is highly fractured and weathered with varying degrees of hardness. In many of the fracture zones, particularly in the serpentinite units, clay and silt fault gouge with clasts or fragments of more competent rock were observed. Due to the lateral discontinuity and the varying elevations at which they were observed in the soil borings the extent of these bedrock fractures appears to be limited (Treadwell & Rollo, 2003d). The lineaments and an interred fault from the Montgomery Watson study are shown on Figure 4 of the *Draft Site Investigation Report* (SI), *Building 1349 Study Area, Presidio of San Francisco, California*, which was submitted to stakeholders in October 2003 (Treadwell & Rollo, 2003d).

Soil borings advanced during the Phase I SI generally encountered wet soil samples in the bedrock at depths ranging from approximately 30 to 40 feet bgs. After leaving the borings open for at most 48 hours, water levels were measured at depths ranging from 29 to 43 feet bgs, depending on the boring location. In several of the Phase I SI borings drilled to 40 feet bgs and into the bedrock, groundwater was not present or only a few inches of water had accumulated in the borings after approximately 48 hours. Based on these findings, groundwater appears to be

present only in particular locations within bedrock fractures and its occurrence is laterally discontinuous across the site. Groundwater movement likely follows the fractures within the bedrock and flows downslope following surface topography (Treadwell & Rollo, 2003d).

3.0 BUILDING 1349 STUDY AREA CAP

The Final Building 1349 Study Area CAP was submitted to the stakeholders in February 2006 (BBL, 2006). Groundwater sampling at the Building 1349 Area will be conducted in accordance with the CAP following its implementation. The CAP identifies four remedial units (RUs); shallow soil RU, deep soil RU, telecommunications conduit RU and the groundwater RU. The preferred alternative for each of the three soil RUs was excavation and offsite disposal. The preferred alternative for the groundwater RU was selected to be groundwater monitoring. The CAP is scheduled to be implemented in 2007. CAP cleanup levels are presented in Tables A-5-2 through A-5-7 and in Table 3-2 from the CAP.

4.0 GROUNDWATER MONITORING

Building 1349 currently has nine associated monitoring wells (Figure A-5-1). Groundwater elevations were collected at all nine Building 1349 monitoring wells during the First and Second Quarters 2006, as proposed.

All nine Building 1349 monitoring wells were purged and sampled during the First Quarter 2006. Monitoring well 1349MW100 was the only well proposed for sampling during the Second Quarter 2006, and therefore, it was the only well sampled.

4.1 Groundwater-Level Measurements and Interpretation

Groundwater elevation measurements were collected on 6 March and 22 May 2006. Groundwater elevations are presented in Table A-5-8. Groundwater elevations of nearby FS 5 wells can be found in Table A-9-8. Water level meters were calibrated on 6 March and 22 May 2006 and the calibration logs can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C.

To provide a broader understanding of groundwater gradients and flow directions in the Building 1349 Area, FS 5 and Baker Beach Disturbed Area 3 groundwater elevations were evaluated with Building 1349 Area groundwater elevations. The groundwater elevations measured during the First and Second Quarters 2006 within Building 1349 monitoring wells were slightly or significantly higher than elevations measured at the site during the First and Second Quarters 2005, with the exception of the groundwater elevations measured during the First Quarter 2006 within 1349MW101, which was slightly lower. The higher groundwater levels are likely due to the higher than normal precipitation in late 2005 and early 2006. Groundwater elevation maps

showing the First and Second Quarters 2006 groundwater contours and flow direction for the Building 1349/Fill Site 5 Area are included as Figures A-5-1 and A-5-2, respectively.

First Quarter 2006 groundwater elevations ranged from 277.19 to 287.04 feet above PLLW in Building 1349 Area monitoring wells 1349MW01 and 1349MW101, respectively (Figure A-5-1). Second Quarter 2006 groundwater elevations ranged from 278.90 to 292.12 feet above PLLW in Building 1349 Area monitoring wells 1349MW01 and 1349MW101, respectively (Figure A-5-2).

Building 1349 Area groundwater was observed to flow in three distinct directions during the First and Second Quarters 2006 dependent on which side of the groundwater basin boundary the wells are located. Groundwater in the Coastal Bluffs Groundwater Basin (wells 1349MW03R, and 1349MW100 through 1349MW102) was observed to flow southwesterly while groundwater in the Marina Groundwater Basin (wells 1349MW01, 1349MW103 through 1349MW105) was measured to flow northeasterly during the First Quarter 2006 and southeasterly during the Second Quarter 2006 (Figure A-5-2). Groundwater flow directions follow the local topography.

Groundwater flow in the area of monitoring wells 1349MW103 through 1349MW105 (Marina Groundwater Basin) has generally been to the northeast, as it was during the First Quarter 2006. However, during the Fourth Quarter 2003 and during the Third and Fourth Quarters 2004, groundwater flow in this area was to the northwest. During the Second Quarter 2006, groundwater flow in this area was to the southeast.

During the First and Second Quarters 2006, the groundwater gradient was calculated to be approximately 0.06 and 0.09 feet per foot, respectively. Groundwater gradient in the vicinity of monitoring wells 1349MW103 through 1349MW105 was calculated to be approximately 0.013 and 0.04 feet per foot during the First and Second Quarters, respectively. Groundwater flow directions and gradients are consistent with the majority of previously calculated flow directions and gradients at the site. However, as mentioned above, flow direction in the area of monitoring wells 1349MW103 through 1349MW105 has also been observed to be to the northwest on three past occasions, and to the southeast during Second Quarter 2006.

4.2 Monitoring Well Purging and Sampling

All nine Building 1349 Area monitoring wells scheduled for sampling during the First Quarter 2006 were purged and sampled between 7 and 20 March 2006. Monitoring well 1349MW100 was the only well proposed for sampling during the Second Quarter 2006 and was purged and sampled on 24 May 2006. All Building 1349 Area monitoring wells were purged and sampled using methods shown in Tables 1A and 1B, and in accordance with procedures described in the FSP (Treadwell & Rollo, 2001a).

Purge equipment, volumes, and general chemistry parameters for each monitoring well are described in the purge records located at the conclusion of this section. Purge water was stored for future disposal in a 2,800-gallon aboveground polyethylene storage tank located at the Central Magazine.

4.3 Groundwater Analytical Program

All groundwater samples collected were submitted to the project laboratory for the analyses shown in Tables 1A and 1B of the main text. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are described in Table 5. Sample containers used for each well are described in the purge records located at the conclusion of this section.

QA/QC samples were collected as part of this program. Section 6.2 of the main report discusses the QA/QC sampling and analysis performed for the First and Second Quarters 2006.

5.0 GROUNDWATER ANALYTICAL RESULTS

All groundwater samples collected from Building 1349 Area monitoring wells during the First Quarter 2006 were analyzed for general chemistry parameters, TDS, OCPs, VOCs, PAHs, TPHg, TPHd, TPHfo, and 23 dissolved metals. In addition, monitoring wells 1349MW02, 1349MW03R, 1349MW100, 1349MW101, and 1349MW102 were analyzed for PCBs (Table 1A).

Groundwater samples collected from Building 1349 Area monitoring well 1349MW100 during the Second Quarter 2006 were analyzed for general chemistry parameters, TDS, OCPs, VOCs, PAHs, TPHg, TPHd, TPHfo, and 23 dissolved metals (Table 1B).

The TPHfo standard currently being used is a TPH as motor oil standard, as defined by the Presidio QAPP, with a carbon range of C_{24} to C_{36}. Section 5.4.3.1 in the main report discusses the data compatibility issues associated with TPH analyses.

Potential contaminants of concern and their associated cleanup levels are listed in the CAP (BBL, 2006). Applicable cleanup levels are also listed in Tables A-5-1 through A-5-7, which present groundwater analytical results. First and Second Quarter 2006 detected groundwater analytical results are summarized below and compared to the cleanup levels where applicable.

As part of the low flow sampling methods and as recommended in the *Technical Memorandum, Evaluation of Arsenic and Other Metals in Groundwater at Three Corrective Action Sites, Presidio of San Francisco* (MACTEC, 2006), ORP, pH, and temperature were measured and data are summarized in Table A-5-1.

5.1 Dissolved Oxygen

Dissolved oxygen results are presented in Table A-5-1. During the First Quarter 2006, dissolved oxygen was measured at concentrations ranging from 0.08 mg/L in monitoring well 1349MW104 to 1.11 mg/L in monitoring well 1349MW101.

During the Second Quarter 2006, the dissolved oxygen concentration within well 1349MW100 was 1.1 mg/L. Dissolved oxygen was measured at new low concentrations within 1349MW102 and 1349MW104 during the First Quarter 2006. The new low concentration within 1349MW102 was not significantly different than the previous low and can be attributed to natural fluctuations. The new low concentration within 1349MW104 (0.08 mg/L) is significantly lower than the previous low concentration of 0.32 mg/L.

5.2 General Chemistry Results

General chemistry results are presented in Table A-5-1. General chemistry results for the First and Second Quarters 2006 within the Building 1349 Area are generally within historical ranges. The table below summarizes new high and low general chemistry analytical results when compared to previous sampling events, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the number of sampling events, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
General Chemistry							
1349MW01	Sulfate	24 / 24	161	262 *	--	300	mg/L
1349MW03R	Alkalinity, Total	11 / 11	330	390	--	440	mg/L
	Bicarbonate	11 / 11	330	390	--	440	mg/L
1349MW100	Chloride	16 / 16	810	1,500	760	--	mg/L
	Sulfate	12 / 16	< 0.5	37	--	65	mg/L
1349MW101	Chloride	10 / 10	190	300	180	--	mg/L
1349MW102	N as Nitrite	1 / 23	< 0.05	< 0.1	--	0.025	mg/L
	Sulfate	23 / 23	18 *	95	--	156	mg/L
1349MW103	Alkalinity, Total	7 / 7	310	600	--	670	mg/L
	Bicarbonate	7 / 7	310	600	--	670	mg/L
	Chloride	7 / 7	790	830	--	930	mg/L
	Fluoride	7 / 7	0.31	0.66	0.29	--	mg/L
1349MW104	Sulfate	6 / 6	55	67	--	74	mg/L
1349MW105	Alkalinity, Total	6 / 6	230	280	--	300	mg/L
	Bicarbonate	6 / 6	230	280	--	300	mg/L
	Chloride	6 / 6	540	760	450	--	mg/L
	Fluoride	6 / 6	0.33	0.63	0.29	--	mg/L
	Sulfate	6 / 6	130	150	76	--	mg/L

Qualified data in the table above is indicated with an asterisk (*).

The majority of the general chemistry parameters measured during the First and Second Quarters 2006 are within historical ranges. Significant new high and low general chemistry results are discussed below.

- Nitrite was detected at a new high concentration of 0.025 mg/L in the QC duplicate sample collected from 1349MW102 during the First Quarter 2006. This is the first time nitrite has been detected within this well. Nitrite was not detected within either the primary or the duplicate samples collected from this well; however, the reporting limit was 0.05 mg/L.

General chemistry parameters within Building 1349 Area monitoring wells have remained relatively stable. The concentration fluctuations of general chemistry parameters within Building 1349 Area monitoring wells can likely be attributed to natural concentration fluctuations, and are not considered to be significant.

5.3 TPH Results

Results of TPH analyses are presented in Table A-5-2 and on Figure A-5-3. All TPH analyses were performed in accordance with Tables 1A and 1B. The table below summarizes new high and low TPH results when compared to previous sampling events, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date sampling commenced, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Total Petroleum Hydrocarbons							
1349MW102	TPH As Diesel C12-C24	3 / 22	< 50	54	--	60 *	µg/L
1349MW01	TPH As Diesel C12-C24	2 / 29	< 50	57 *	--	79 *	µg/L
1349MW103	TPH As Diesel C12-C24	1 / 7	< 50	< 50	--	54 *	µg/L
1349MW104	TPH As Diesel C12-C24	1 / 6	< 50	< 50	--	55 *	µg/L

Qualified data in the table above is indicated with an asterisk (*).

TPHg was detected within 1349MW100 at a concentration of 1,300 µg/L during the First Quarter 2006. The detected concentration within 1349MW100 during the First Quarter 2006 exceeds the CAP-specified cleanup level of 770 µg/L.

During the First Quarter 2006, TPHd was detected at new high concentrations of 79, 54, and 55 µg/L within monitoring wells 1349MW01, 1349MW103, and 1349MW104, respectively. TPHd was also detected in the QC duplicate sample in monitoring well 1349MW102 at a concentration of 60 µg/L. These detections are well below the Building 1349 Area CAP-specified cleanup level of 880 µg/L. TPHd was detected at a concentration of 6,900 µg/L in monitoring well 1349MW100, which exceeds the CAP-specified cleanup level.

During the Second Quarter 2006, TPHg was detected in the primary, duplicate and QC samples from 1349MW100 at concentrations of 690, 490, and 350 µg/L, respectively. TPHd was detected in the primary, duplicate and QC samples from 1349MW100 at concentrations of 3,600, 5,200, and 5,400, respectively. TPHfo was not detected within 1349MW100 during either the First or Second Quarters 2006.

TPH concentrations at the site have generally been non-detect with the exception of TPHg and TPHd concentrations in 1349MW100. TPHd concentrations within 1349MW100 continue to fluctuate, typically in excess of their applicable cleanup levels. The potential for increasing or decreasing TPH concentration trends at the site will continue to be evaluated in future monitoring events.

5.4 OCP and PCB Results

OCP and PCB results are presented in Table A-5-4. Beta-BHC and gamma-BHC results are also shown on Figure A-5-3. The table below summarizes new high and low OCP results when compared to previous sampling events, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the number of sampling events, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Pesticides/PCBs							
1349MW100	alpha-Chlordane	9 / 16	< 0.049	0.3 *	--	0.9 *	µg/L
	gamma-Chlordane	7 / 16	< 0.049	0.4 *	--	0.7 *	µg/L
	Heptachlor Epoxide	8 / 14	< 0.05	0.2 *	--	0.4	µg/L

Qualified data in the table above is indicated with an asterisk (*).

Several OCP compounds were detected within upgradient monitoring well 1349MW100 during the First and Second Quarters 2006.

During the First Quarter 2006, alpha-chlordane and gamma chlordane were detected at new high concentrations of 0.9 and 0.7 µg/L, respectively. 4,4'-DDD (0.9 µg/L), aldrin (0.3 µg/L), delta-BHC (0.1 µg/L), dieldrin (0.4 µg/L), heptachlor (0.8 µg/L), and heptachlor epoxide (0.2 µg/L) were detected within the historical concentration ranges for these compounds.

During the Second Quarter 2006, heptachlor epoxide was detected in the primary sample at a new high concentration of 0.4 µg/L and in the duplicate sample at a concentration of 0.3 µg/L. 4,4'-DDT was detected in the primary and duplicate samples at a concentration of 0.8 µg/L. Aldrin and alpha-chlordane were detected in the duplicate samples at concentrations of 0.3 and 0.8 µg/L, respectively.

Some of these detected concentrations exceeded both the concentrations of OCPs previously detected in 1349MW100, and the applicable cleanup levels as outlined in the CAP (BBL, 2006).

OCPs have been detected in the past in monitoring wells 1349MW03R, 1349MW101, and 1349MW102, which are generally downgradient of monitoring well 1349MW100. However, OCPs have not been detected within any of these wells for five sampling events.

OCPs have been retained as contaminants of concern at the Building 1349 Area to evaluate potential corrective actions. Former Building 1349 operations involved fuel storage and distribution. The source of OCP concentrations at the Building 1349 Area is not currently known.

PCBs have not been detected within any Building 1349 Area monitoring wells to date.

5.5 Chlorinated Herbicides

Chlorinated herbicides were removed from the Building 1349 Area due to a lack of significant detections, and were not proposed for sampling and analysis during the First and Second Quarters 2006.

5.6 PAHs

PAH analysis was completed for all Building 1349 monitoring wells during the First Quarter 2006. Monitoring well 1349MW100 was the only sample analyzed for PAHs during the Second Quarter 2006.

Several PAH compounds were detected within monitoring well 1349MW100 during the First and Second Quarters 2006.

During the First Quarter 2006, acenaphthene (6.6 µg/L), anthracene (0.36 µg/L), benzo(a) anthracene (0.35 µg/L), chrysene (0.29 µg/L), fluoranthene (2.3 µg/L), fluorene (10 µg/L), phenanthrene (9 µg/L), and pyrene (0.75 µg/L) were detected at concentrations within the range of historical concentrations for these compounds at this well. During the Second Quarter 2006 in the primary, duplicate and QC samples, acenaphthene was detected at concentrations of 3.6, 4.3, and 5.6 µg/L, respectively. Anthracene was detected at concentrations of 0.2, 0.28, and 0.24 µg/L, respectively. Benzo(a) anthracene was detected at concentrations of 0.11, 0.14, and 0.48 µg/L, respectively. Chrysene was detected in the duplicate sample only at a concentration of 0.1 µg/L. Fluoranthene was detected at concentrations of 1.6, 1.8, and 0.38 µg/L, respectively. Fluorene was detected at concentrations of 7.5, 8.4, and 4.0 µg/L, phenanthrene was detected at concentrations of 4.9, 5.8, and 3.5 µg/L, respectively, and pyrene was detected at concentrations of 0.38, 0.48, and 0.44 µg/L. These detected concentrations were within the range of historical concentrations within this well. No other PAHs were detected in any of the Building 1349 Area samples during the First or Second Quarters 2006.

The concentrations of benzo(a)anthracene in the First and Second Quarters 2006, exceeded the Building 1349 Area CAP-specified cleanup level of 0.1 µg/L. These detected concentrations were within the range of historical concentrations within this well.

PAH concentrations continue to fluctuate within monitoring well 1349MW100 with 8 to 10 PAHs typically present in recent sampling events. The potential for increasing or decreasing PAH concentration trends at monitoring well 1349MW100 will continue to be evaluated in future monitoring events.

5.7 VOC Results

VOCs were only detected in the samples from 1349MW100 during the First and Second Quarters 2006. Several Building 1349 Area wells were sampled during the First Quarter 2006 but monitoring well 1349MW100 was the only well sampled during the Second Quarter 2006. VOC results are summarized in Table A-5-3.

Benzene was detected within monitoring well 1349MW100 during the First Quarter 2006 at a concentration of 22 µg/L, and in the Second Quarter 2006 primary, duplicate, and QC samples at concentrations of 29, 28, and 30 µg/L, respectively. These concentrations exceed the Building 1349 Area cleanup level for benzene of 1 µg/L.

Carbon disulfide was not detected within monitoring well 1349MW100 during the First Quarter 2006, but was detected in the primary and duplicate samples from monitoring well 1349MW100 during the Second Quarter 2006 at concentrations of 0.7 and 0.8 µg/L, respectively. This is the first detection of carbon disulfide since Second Quarter 2003. Ethylbenzene and total xylenes were both detected within monitoring well 1349MW100 during the First Quarter 2006 at a concentration of 0.8 µg/L.

Ethylbenzene was detected within monitoring well 1349MW100 during the Second Quarter 2006 in the primary and duplicate samples at a concentration of 0.8 µg/L, and in the QC duplicate sample at a concentration 0.9 µg/L. Total xylenes were detected within monitoring well 1349MW100 during the Second Quarter 2006 at concentrations of 3.8, 3.7, and 4.2 µg/L in the primary, duplicate, and QC duplicate samples, respectively. The detected concentrations of ethylbenzene and total xylenes are well below their respective cleanup levels.

5.8 Dissolved Metals Results

Dissolved metals results are presented in Table A-5-7 and arsenic, chromium, and iron results are illustrated in Figure A-5-3. The following table summarizes new high and low dissolved metal results for the First and Second Quarters 2006 when compared to previous sampling events, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the number of sampling events, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Metals, Dissolved							
1349MW01	Barium	17 / 17	34	620	32	--	µg/L
1349MW02	Cadmium	1 / 22	< 1	< 1	--	1.1	µg/L
1349MW03R	Total Dissolved Solids	12 / 12	360	1,980	--	2,060	mg/L
1349MW100	Magnesium	14 / 14	190,000	390,000	180,000 *	--	µg/L
	Selenium	1 / 14	< 5	< 5	--	10	µg/L
	Total Dissolved Solids	16 / 16	1,820	5,570	510	--	mg/L
1349MW101	Calcium	10 / 10	16,000	36,000	15,000	--	µg/L
	Potassium	10 / 10	2,200	9,800	1,700 *	--	µg/L
1349MW102	Aluminum	1 / 18	< 100	< 100	--	260	µg/L
	Arsenic	2 / 18	< 5	7.3	< 2 *	--	µg/L
	Cobalt	1 / 18	< 7	1.4	< 1 *	--	µg/L
	Selenium	1 / 16	< 5	< 5	--	2.3	µg/L
1349MW103	Barium	4 / 7	< 10	21	--	26 *	µg/L
	Magnesium	7 / 7	190,000	320,000	--	330,000	µg/L
	Potassium	7 / 7	5,600	13,000	5,400 *	--	µg/L
	Total Dissolved Solids	7 / 7	1,320	1,650	--	2,220	mg/L
1349MW104	Barium	6 / 6	35	78	--	100 *	µg/L
	Iron	6 / 6	190	410	180 *	--	µg/L
1349MW105	Antimony	6 / 6	1.5	4.5	1.4	--	µg/L
	Calcium	6 / 6	71,000	86,000	56,000	--	µg/L
	Iron	6 / 6	360	600	130	--	µg/L
	Magnesium	6 / 6	150,000	180,000	140,000	--	µg/L
	Sodium	6 / 6	120,000	200,000	110,000	--	µg/L

Qualified data in the table above is indicated with an asterisk (*).

The majority of the dissolved metal concentrations detected during the First and Second Quarters 2006 are within historical ranges. Significant new high and low dissolved metals results are discussed below.

- During the First Quarter 2006, dissolved aluminum was detected in the duplicate sample from monitoring well 1349MW102 at a concentration of 260 µg/L. Aluminum has not been detected within this well in previous sampling events. Dissolved aluminum detections can be indicative of filter breakthrough; however, the majority of the other metals detected within the duplicate sample, with the exception of dissolved iron, were within the range of previously detected metals concentrations within this well. Dissolved iron was detected within the duplicate sample at a concentration more than double the concentrations reported within the primary and the QC duplicate samples within this well.

- Dissolved cadmium was detected just above the laboratory reporting limit at a concentration of 1.1 µg/L within monitoring well 1349MW02 during First Quarter 2006. Cadmium has not previously been detected within this well. Additionally, dissolved iron was detected within this sample at a concentration higher than typically observed within this well. The presence of elevated concentrations of dissolved aluminum and iron typically are indicative of a filtering issue, however, the majority of the remaining metals are within historical ranges.
- Dissolved chromium was detected during the First Quarter 2006 at concentrations of 75 and 120 µg/L, in monitoring wells 1349MW02 and 1349MW03R, respectively. Chromium concentrations within 1349MW02 have exceeded the Building 1349 Area CAP-specified cleanup level of 50 µg/L since the Second Quarter 2001, and within 1349MW03R since the First Quarter 2004. Chromium is thought to be naturally occurring and a result of these wells being screened in serpentinite bedrock.
- Dissolved iron was detected at a new low concentration of 130 µg/L within monitoring well 1349MW105 during the First Quarter 2006. This concentration was approximately three times lower than the previous low concentration at this well.
- Dissolved selenium was detected at a concentration of 2.3 µg/L in the QC duplicate sample from monitoring well 1349MW102 and at a concentration of 10 µg/L in monitoring well 1349MW100, during First Quarter 2006. Selenium has not been detected within either of these wells in previous sampling events.

The remaining new low and high concentrations of dissolved metals likely represent natural fluctuations and are not considered significant. The potential for increasing or decreasing concentration trends will be evaluated in future quarterly monitoring events.

6.0 CONCLUSIONS & RECOMMENDATIONS

Nine Building 1349 monitoring wells were sampled during the First Quarter 2006. Monitoring well 1349MW100 was the only well sampled during the Second Quarter 2006.

The Building 1349 Area CAP was finalized and submitted to the stakeholders in February 2006. Groundwater sampling at the Building 1349 Area will be conducted in accordance with the CAP when the CAP is implemented. The recommended corrective actions for the Building 1349 Area are detailed in the CAP and are summarized in Section 3.0.

TPHg was detected above its Building 1349 Area CAP cleanup level during the First Quarter 2006 at 1349MW100. TPHd was also detected within this well above its Building 1349 Area CAP cleanup level during both the First and Second Quarters 2006. TPHd concentrations continue to exceed groundwater cleanup levels within monitoring well 1349MW100, and both TPHg and TPHd continue to fluctuate significantly from one sampling event to the next at this location.

OCPs continue to be detected within monitoring well 1349MW100. During the First Quarter 2006, alpha-chlordane and gamma chlordane were detected at new high concentrations. Additional detections included 4,4'-DDD, aldrin, delta-BHC, dieldrin, heptachlor, and heptachlor epoxide, which were detected within the historical concentration ranges for these compounds at this well. During the Second Quarter 2006, heptachlor epoxide was detected at a new high concentration, and 4,4'-DDT, aldrin and alpha-chlordane were also detected. Some of these detected concentrations exceeded both the concentrations of OCPs previously detected in 1349MW100, and the applicable cleanup levels as outlined in the CAP (BBL, 2006). OCPs have been detected in the past in monitoring wells 1349MW03R, 1349MW101, and 1349MW102, which are generally downgradient of monitoring well 1349MW100. However, OCPs have not been detected within any of these wells for at least five sampling events.

Dissolved arsenic, iron, and manganese have been detected in monitoring well 1349MW100 samples at concentrations generally higher than within the other Building 1349 monitoring wells. Arsenic is commonly found in the natural environment and is often present in combination with iron and manganese oxides. Arsenic has also been detected at elevated concentrations in monitoring well 1349MW105, although not in association with elevated concentrations of manganese or iron.

Arsenic, iron and manganese are generally more soluble and mobile under reducing conditions. A reducing environment likely exists within 1349MW100 due to the degradation of petroleum hydrocarbons present at this well. This chemical process is likely contributing to the elevated levels of dissolved arsenic, iron and manganese within 1349MW100. Future detections and concentration trends of these compounds will continue to be monitored and evaluated.

Building 1349 Area monitoring wells will continue to be sampled in accordance with the Building 1349 Area CAP, and results evaluated against the Building 1349 Area CAP cleanup levels.

Table 3-2
Summary of Groundwater Cleanup Levels
Building 1349 Area
Presidio of San Francisco, California

Chemical	QAPP Analytical Reporting Limits (µg/L)	Laboratory Reporting Limits (µg/L)	Drinking Water Groundwater Cleanup Level[a] (µg/L)
Petroleum Hydrocarbons and Constituents			
TPHg (C_7-C_{12})	50	50	770
TPHd (C_{12}-C_{24})	50	50	880
TPHfo [b] (C_{24}-C_{36})	300	250	1,200
Benzene	0.01	0.5	1.0
Toluene	0.05	0.5	150
Ethylbenzene	0.5	0.5	700
Total Xylenes	0.5	0.5	1,750
Polycyclic Aromatic Hydrocarbons (PAHs)			
Acenaphthene	10	0.2	420[c]
Acenapthylene	10	0.2	280[c]
Anthracene	10	0.5	770
Benzo(a)anthracene	10	0.1	0.1
Benzo(a)pyrene	10	0.1	0.2
Benzo(b)fluoranthene	10	0.2	0.2
Benzo(g,h,i)perylene	10	0.2	150
Benzo(k)fluoranthene	10	0.1	2
Chrysene	10	0.1	20
Dibenzo(a,h)anthracene	10	0.2	0.0085[c,d]
Flouranthene	10	0.4	300
Fluorene	10	1	300
Naphthalene	10	1	300
Indeno(1,2,3-cd)pyrene	10	0.14	0.029[c,d]
Phenanthrene	10	0.5	230
Pyrene	10	0.2	230
Volatile Organic Compounds (VOCs)			
2-butanone	10	10	4,200[c]
Acetone	10	10	700[c]
Bromoform	0.5	1	100[c]
Carbon disulfide	5	0.5	--
Dibromochloromethane	0.5	0.5	100[c]
Methyl t-butyl ether (MTBE)	2	0.5	13
Metals			
Aluminum	50	50	--
Antimony	2	1	6
Arsenic	2	1	10
Barium	1	1	1,000
Beryllium	1	1	4
Cadmium	1	1	5
Calcium	50	50	--
Chromium	2	1	50
Chromium VI	0.5	10	21[c]
Cobalt	1	1	140[c]
Copper	2	1	1,000
Iron	50	50	--
Lead	1	1	15
Magnesium	50	50	--
Manganese	1	1	--

Table 3-2
Summary of Groundwater Cleanup Levels
Building 1349 Area
Presidio of San Francisco, California

Chemical	QAPP Analytical Reporting Limits (µg/L)	Laboratory Reporting Limits (µg/L)	Drinking Water Groundwater Cleanup Level[a] (µg/L)
Metals			
Mercury	0.2	0.2	2
Nickel	2	1	100
Potassium	50	50	--
Selenium	2	1	50
Silver	1	1	50
Sodium	50	50	--
Thallium	1	1	2
Vanadium	10	1	15[c]
Zinc	2	20	5,000
Pesticides			
Aldrin	0.05	0.05	0.002[c,d]
alpha-BHC	0.05	0.05	---
beta -BHC	0.05	0.05	0.3
delta-BHC	0.05	0.05	---
gamma-BHC	0.05	0.05	0.2
Chlordane (alpha and gamma)[e]	0.5	0.05	0.1
4,4-DDD	0.1	0.01	0.15[c]
4,4-DDE	0.1	0.01	0.10[c]
4,4-DDT	0.1	0.01	0.10[c]
Dieldrin	0.1	0.05	0.5
Endosulfan	0.1	0.01	42[c]
Endosulfan sulfate	0.1	0.1	---
Endrin	0.1	0.01	2
Endrin aldehyde	0.1	0.1	2
Heptachlor	0.05	0.025	0.01[d]
Heptachlor epoxide	0.05	0.025	0.01[d]
Methoxychlor	0.5	0.025	40

Notes
µg/L - micrograms per liter
--- = Cleanup level is not available.
QAPP - Quality Assurance Project Plan
TPHd - total petroleum hydrocarbons as diesel
TPHg - total petroleum hydrocarbons as gasoline
TPHfo - total petroleum hydrocarbons as fuel oil
a - Development of Presidio-wide Cleanup Levels for Soil, Sediment, Groundwater and Surface Water, Presidio of San Francisco (EKI, 2002), Table 7-6, Cleanup Levels for Surface Water, Seeps, and Groundwater at the Presidio of San Francisco (Drinking Water Cleanup Level) or maximum contaminant levels (MCLs), if available.
b - These values also apply to TPH as motor oil.
c - Values are Environmental Screening Levels (ESLs) for drinking water (RWQCB, 2003b).
d - Drinking water level is lower than laboratory reporting limit. Therefore, laboratory reporting limit is selected as achievable cleanup level.
e - Cleanup level for chlordane is applied to both alpha and gamma isomers. Both isomers are reported in laboratory data.

Table A-5-1
Results of General Chemistry Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	**Field**	**Field**	**Field**
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	**(mV)**	**pH units**	**C°**
1349MW01	03/16/06	310	310	850	0.54	< 0.1	1.7	< 0.1	NA	300	186.5	6.41	13.8
	03/21/05	270	270	690	0.3	< 0.1	2.1	< 0.1	NA	230	NR	NR	NR
	03/15/04	280	280	740	0.39	0.11	2.2	< 0.1	NA	250	NR	NR	NR
	12/02/03	310	310	690	1.1	0.14	2.2	< 0.05	NA	220	NR	NR	NR
	08/21/03	310	310	700	1.42	< 0.2	1.8	< 0.1	NA	220	NR	NR	NR
	06/10/03	380	380	740	1.29	< 0.2	2.1	< 0.1	NA	230	NR	NR	NR
	03/12/03	NA	NA	NA	1.59	NA	NA	NA	NA	NA	NR	NR	NR
	12/09/02	360	360	750	0.76	< 0.2	1.7	< 0.1	NA	210	NR	NR	NR
DUP1209021A	12/09/02	350	350	750	--	< 0.2	1.8	< 0.1	NA	220	NR	NR	NR
1349MW01CL	12/09/02	350	350	360	--	1	1.4 J-	< 0.05 UJ	1.4 J-	220	NR	NR	NR
	08/28/02	270	270	740	1.34	0.13	1.7	< 0.05	NA	240	NR	NR	NR
	05/30/02	320	320	810	1.37	0.091 J	1.7	< 0.05	NA	230	NR	NR	NR
	03/06/02	290	290	830	2.13	0.13	1.8	< 0.05	NA	250	NR	NR	NR
	11/28/01	310	310	820	1.36	0.13	1.8	< 0.05	NA	240	NR	NR	NR
	08/30/01	420	420	740	0.61	0.24	1.3	< 2.5	NA	180	NR	NR	NR
DUP0830013A	08/30/01	430	430	740	--	0.14	1.2	< 2.5	NA	180	NR	NR	NR
1349MW01CL	08/30/01	340	340	760	--	< 0.05	1.4 [2]	< 2.5	NA	210	NR	NR	NR
	05/10/01	330	330	760	1.45	0.19	1.4	< 0.05	NA	220	NR	NR	NR
	05/19/99	433	433	820	0.83	0.2	NA	NA	0.537	188	NR	NR	NR
	02/19/99	468	468	731	1.83	0.15	NA	NA	0.641	192	NR	NR	NR
	11/18/98	361	361	666	1.59	0.17	NA	NA	0.62	205	NR	NR	NR
	08/18/98	574	574	701	2.24	0.11	NA	NA	0.404	161	NR	NR	NR
	04/16/98	377	377	679	2.89	0.12	NA	NA	0.715	221	NR	NR	NR
	01/22/98	509	509	673	1	0.124	NA	NA	0.416	159	NR	NR	NR
	10/30/97	527	527	726	0.37	< 0.05	0.478	NA	0.368	158	NR	NR	NR
	07/31/97	466	466	777	0.5	NA	0.532	NA	0.617	192	NR	NR	NR
	05/01/97	489	489	768	1.17	NA	0.451	NA	NA	190	NR	NR	NR
	02/10/97	374	374	888	1.26	NA	0.635	NA	< 0.05	262	NR	NR	NR
	08/08/95	NA	NA	NA	NM	NA	NA	NA	NA	NA	NR	NR	NR
1349MW02	03/10/06	660	660	740	0.56	< 0.1	1.3	< 0.1	NA	78	-18.1	7.29	13.2
	08/31/05	710	710	770	0.8	< 0.1 UJ	1.2	< 0.1 UJ	NA	88	NR	NR	NR
	05/25/05	650	650	710	0.5	< 0.1	1.2	< 0.1	NA	68	NR	NR	NR
	03/21/05	630	630	860	0.1	< 0.1	1.3	< 0.1	NA	67	NR	NR	NR
	12/16/04	710	710	620	0.8	< 0.1	1.6	< 0.1	NA	66	NR	NR	NR
	08/12/04	700	700	600	0.4	< 0.1	1.5	< 0.1	NA	64	NR	NR	NR
	05/26/04	660	660	650	0.59	0.11	1.3	< 0.1	NA	64	NR	NR	NR
	03/15/04	630	630	670	0.44	< 0.1	1.4	< 0.1	NA	66	NR	NR	NR

Table A-5-1
Results of General Chemistry Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	**Field**	**Field**	**Field**
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	**(mV)**	**pH units**	**C°**
1349MW02	12/02/03	720	720	600	0.6	< 0.1	1.6	< 0.05	NA	64	NR	NR	NR
	08/13/03	710	710	550	1.6	< 1	1.3 b,J-	< 0.5 UJ	NA	73	NR	NR	NR
	06/05/03	630	630	610	1.3	< 0.2	1.6	< 0.1	NA	62	NR	NR	NR
DUP0605032A	06/05/03	620	620	610	--	< 0.2	1.6	< 0.1	NA	62	NR	NR	NR
	03/12/03	NA	NA	NA	0.3	NA	NA	NA	NA	NA	NR	NR	NR
	12/04/02	660	660	580	1.8	< 0.2	1.7	< 0.1	NA	62	NR	NR	NR
DUP1204023A	12/04/02	670	670	560	--	< 0.2	1.7	< 0.1	NA	63	NR	NR	NR
	08/28/02	670	670	570	1	0.12	1.6	< 0.05	NA	68	NR	NR	NR
	05/30/02	680	680	630	0.7	0.12	1.6	< 0.05	NA	60	NR	NR	NR
	03/06/02	640	640	680	1.2	0.13	1.6	< 0.05	NA	58	NR	NR	NR
DUP0306022A	03/06/02	640	640	670	--	0.13	1.6	< 0.05	NA	59	NR	NR	NR
	11/28/01	670	670	580	2.25	0.091 J	1.7	< 0.05	NA	60	NR	NR	NR
DUP1128011A	11/28/01	680	680	570	--	0.1 J	1.8	< 0.05	NA	56	NR	NR	NR
	08/30/01	660	660	570	NM	0.11	1.7	< 0.05	NA	64	NR	NR	NR
DUP0830012A	08/30/01	660	660	550	--	0.11	1.7	< 0.05	NA	63	NR	NR	NR
1349MW02CL	08/30/01	660	660	550	--	< 0.1	1.5 [2]	< 0.05	NA	56	NR	NR	NR
	05/10/01	660	660	570	1.3	0.12	1.7	< 0.05	NA	62	NR	NR	NR
	05/19/99	680	680	724	0.51	< 0.1	NA	NA	1.58	76	NR	NR	NR
	02/19/99	706	706	766	0.6	< 0.1	NA	NA	1.29	80	NR	NR	NR
	11/18/98	694	694	690	0.71	< 0.1	NA	NA	1.22	69	NR	NR	NR
	08/18/98	688	688	637	0.39	< 0.1	NA	NA	1.24	69	NR	NR	NR
	04/16/98	629	629	555	0.9	< 0.1	NA	NA	1.23	64	NR	NR	NR
	01/22/98	689	689	586	1.34	< 0.1	NA	NA	1.12	60	NR	NR	NR
	10/30/97	700	700	653	0.33	< 0.05	1.3	NA	1.21	72	NR	NR	NR
	07/31/97	679	679	662	0.62	NA	1.29	NA	1.2	73	NR	NR	NR
	05/01/97	696	696	661	0.31	NA	1.18	NA	NA	61	NR	NR	NR
	02/10/97	548	548	501	0.5	NA	0.924	NA	1.3	52	NR	NR	NR
	08/08/95	NA	NA	NA	NM	NA	NA	NA	NA	NA	NR	NR	NR
1349MW03R	03/16/06	440	440	860	1.1	< 0.1	6.3	< 0.1	NA	120	210	7.76	15.8
	11/30/05	NA	NA	NA	0.4	NA	NA	NA	NA	NA	NR	NR	NR
	08/31/05	390	390	170	0.4	< 0.1	5.9	< 0.05	NA	39	NR	NR	NR
	05/25/05	390	390	560	0.6	< 0.1	6.3	< 0.1	NA	84	NR	NR	NR
	03/21/05	350	350	960	7.7	< 0.1	5.4	< 0.1	NA	130	NR	NR	NR
	12/16/04	350	350	78	4.8	< 0.1	5.2	< 0.05	NA	29	NR	NR	NR
	08/10/04	350	350	68	3.94	< 0.1	4.6	< 0.05	NA	30	NR	NR	NR
	05/26/04	340	340	79	5.7	< 0.1	4.5	< 0.05	NA	31	NR	NR	NR

Table A-5-1
Results of General Chemistry Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	**Field**	**Field**	**Field**
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	**(mV)**	**pH units**	**C°**
1349MW03R	03/09/04	380	380	78	7.08	< 0.1	4.5	< 0.05	NA	33	NR	NR	NR
	12/02/03	350	350	72	5.2	< 0.1	4.8	< 0.05	NA	22	NR	NR	NR
	08/13/03	360	360	78	4.8	< 0.5	4.5 b,J-	< 0.25 UJ	NA	32	NR	NR	NR
	06/09/03	330	330	130	2.6	0.37	4.7	0.1	NA	33	NR	NR	NR
1349MW100	05/24/06	910	910	850	1.1	0.23	< 0.05	< 0.1	NA	60	-77.5 NM	6.37	16.7
DUP0524063A	05/24/06	860	860	830	NA	0.23	< 0.05	< 0.1	NA	65	NR	NR	NR
1349MW100CL	05/24/06	820	NA	930	NA	< 1 U	< 0.02 U UJ	< 0.02 U	NA	55.9	NR	NR	NR
	03/16/06	930	930	760	0.33	0.24	< 0.05	< 0.1	NA	50	74.7	6.44	15.2
	11/30/05	940 J+	940	1,300	0.3	0.34	< 0.1	< 0.15	NA	< 1	NR	NR	NR
	08/31/05	860	860	1,500	0.3	0.31 J-	< 0.1	< 0.2 UJ	NA	8.7	NR	NR	NR
	05/25/05	910	910	810	0.3	0.2	< 0.05	< 0.1	NA	35	NR	NR	NR
	03/23/05	870	870	820	0.1	0.27	< 0.05	< 0.1	NA	37	NR	NR	NR
	12/16/04	940	940	1,200	0.2	0.28	< 0.05	< 0.25	NA	< 0.5	NR	NR	NR
	08/10/04	970	970	1,000	0.7	0.29	< 0.05	< 0.1	NA	0.51	NR	NR	NR
	05/27/04	940	940	1,100	0.55	0.28	< 0.05	< 0.1	NA	2	NR	NR	NR
	03/16/04	900	900	830	0.37	0.24	< 0.05	< 0.1	NA	10	NR	NR	NR
	12/02/03	890	890	1,200	1	0.24	< 0.1	< 0.1	NA	< 1	NR	NR	NR
	08/12/03	800	800	1,100	0.5	< 0.5	< 0.25	< 0.25	NA	< 2.5	NR	NR	NR
	06/09/03	860	860	890	1.8	< 0.5	< 0.25	< 0.25	NA	3.5	NR	NR	NR
	03/12/03	810	810	840	0.6	< 0.2	< 0.1	< 0.1	NA	7.7	NR	NR	NR
	12/10/02	660	660	1,300	0.9	< 0.2	< 0.1	< 0.1	NA	9.2	NR	NR	NR
1349MW101	03/16/06	330	330	180	1.11	< 0.1	2.8	< 0.05	NA	16	160.7	8.06	16
	08/31/05	280	280	190	0.7	< 0.1	2.5	< 0.05	NA	15	NR	NR	NR
	05/25/05	290	290	200	0.4	< 0.1	2.3	< 0.05	NA	15	NR	NR	NR
DUP0525052A	05/25/05	270	270	200	--	< 0.1	2.3	< 0.05	NA	15	NR	NR	NR
	03/21/05	280	280	210	0.2	< 0.1	3	< 0.05	NA	18	NR	NR	NR
	12/15/04	260	260	230	0.3	< 0.1	2.8	< 0.05	NA	17	NR	NR	NR
	03/09/04	260	260	210	3.52	0.13	3.5	< 0.05	NA	19	NR	NR	NR
	12/02/03	390	390	230	1.4	0.14	2.4	< 0.05	NA	19	NR	NR	NR
	08/19/03	280	280	260	1.7	0.25	2.5	< 0.05	NA	25	NR	NR	NR
	06/09/03	230	230	300	1.1	0.47	4.3	0.13	NA	38	NR	NR	NR
1349MW102	03/07/06	470	470	240	0.15	0.25	2	< 0.05	NA	140	-6.9	6.72	14.2
DUP0307063C	03/07/06	500	500	240	NA	0.24	2	< 0.05	NA	130	-6.9	6.72	14.2
1349MW102CL	03/07/06	416	416	220	NA	< 1 U	2.33	0.025	NA	156	-6.9	6.72	14.2
	08/31/05	420	420	210	0.9	0.19	1.7	< 0.05	NA	73	NR	NR	NR
DUP0831052A	08/31/05	450	450	200	--	0.19	1.7	< 0.05	NA	71	NR	NR	NR
	05/25/05	390	390	150	0.5	0.15	2.8	< 0.05	NA	95	NR	NR	NR

Table A-5-1
Results of General Chemistry Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	**Field**	**Field**	**Field**
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	**(mV)**	**pH units**	**C°**
1349MW102	03/21/05	500	500	340	0.4	0.24	1.8	< 0.05	NA	79	NR	NR	NR
DUP0321053A	03/21/05	520	520	330	--	0.23	2	< 0.05	NA	79	NR	NR	NR
	12/16/04	630	630	450	1.08	0.25	0.71	< 0.05	NA	47	NR	NR	NR
	08/10/04	580	580	400	1.54	0.24	0.8	< 0.05	NA	42	NR	NR	NR
DUP0810042A	08/10/04	570	570	420	--	0.24	0.54	< 0.05	NA	41	NR	NR	NR
	05/27/04	600	600	410	1.1	0.27	0.52	< 0.05	NA	44	NR	NR	NR
DUP0527041A	05/27/04	630	630	400	--	0.26	0.74	< 0.05	NA	47	NR	NR	NR
1349MW102CL	05/27/04	620	620	88	--	0.29	0.6	< 0.05	0.6	18	NR	NR	NR
	03/10/04	540	540	470	0.5	0.27	0.4	< 0.05	NA	48	NR	NR	NR
DUP0310041A	03/10/04	550	550	470	--	0.27	0.4	< 0.05	NA	47	NR	NR	NR
1349MW102CL	03/10/04	530	530	450	--	0.28	0.45 J	< 0.05 UJ	0.45 HT-04,J	44	NR	NR	NR
	12/10/03	690	690	480	2	0.29	0.09	< 0.05	NA	43	NR	NR	NR
DUP1210031A	12/10/03	670	670	480	--	0.28	0.1	< 0.05	NA	43	NR	NR	NR
	08/12/03	740	740	430	1.1	0.47	0.17 b,J	< 0.1 UJ	NA	47	NR	NR	NR
	06/09/03	660	660	560	1.9	0.35	0.14	< 0.1	NA	68	NR	NR	NR
DUP0609032A	06/09/03	650	650	570	--	0.34	0.11	< 0.1	NA	70	NR	NR	NR
1349MW102CL	06/09/03	670	670	490	--	0.6	0.13	< 0.05	0.13	59	NR	NR	NR
1349MW103	03/09/06	670	670	930	0.19	0.29	< 0.05	< 0.1	NA	110	-26.1	7.27	13.6
	03/23/05	600	600	830	0.1	0.31	< 0.05	< 0.1	NA	95	NR	NR	NR
	03/15/04	490	490	830	0.52	0.42	< 0.05	< 0.1	NA	100	NR	NR	NR
	12/03/03	450	450	800	1.2	0.43	< 0.1	< 0.1	NA	97	NR	NR	NR
DUP1203032A	12/03/03	450	450	800	--	0.41	< 0.1	< 0.1	NA	110	NR	NR	NR
	08/12/03	400	400	790	2.4	0.54	< 0.1	< 0.1	NA	110	NR	NR	NR
	06/05/03	310	310	830	1.8	0.66	< 0.1	< 0.1	NA	110	NR	NR	NR
1349MW104	03/09/06	710	710	860	0.08	< 0.1	0.13	< 0.1	NA	74	-83.1	7.5	13
	03/23/05	680	680	850	0.6	< 0.1	0.07	< 0.1	NA	60	NR	NR	NR
	03/15/04	670	670	820	0.32	0.16	0.35	< 0.1	NA	62	NR	NR	NR
	12/02/03	740	740	790	1	< 0.2	0.12	< 0.1	NA	58	NR	NR	NR
	08/12/03	690	690	770	1.3	< 0.2	< 0.1	< 0.1	NA	55	NR	NR	NR
	06/06/03	600	600	870	3	0.21	0.17	< 0.1	NA	67	NR	NR	NR
1349MW105	03/20/06	300	300	450	0.19	0.29	< 0.05	< 0.05	NA	76	-151.1	0.02	13.5
	03/23/05	280	280	540	0.1	0.33	< 0.05	< 0.05	NA	130	NR	NR	NR
	03/15/04	240	240	590	0.31	0.41	< 0.05	< 0.1	NA	150	NR	NR	NR

Table A-5-1
Results of General Chemistry Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	**Field**	**Field**	**Field**
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	**(mV)**	**pH units**	**C°**
1349MW105	12/02/03	260	260	600	1.2	0.38	< 0.05	< 0.05	NA	150	NR	NR	NR
	08/12/03	280	280	600	3.1	0.48	< 0.1	< 0.1	NA	130	NR	NR	NR
	06/09/03	230	230	760	1.2	0.63	< 0.1	< 0.1	NA	130	NR	NR	NR

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in their respective quarterly report.
2 - The QC laboratory nitrate results shown have been converted to nitrate as nitrogen (nitrate-N) as other laboratory results are reported. The QC laboratory reported nitrate as NO_3 concentrations (nitrate-NO_3) which are 4.43 times higher than nitrate-N concentrations. Section 6.2.1.2 in the main report discusses this issue.
mg/L - milligrams per liter
mV - millivolts
NA - Not analyzed
NM - Not measured
NR - Not reported
ORP - oxidation reduction potential
^{o}C - degrees centigrade
"--" dissolved oxygen measurements were not taken for duplicate and quality control samples.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-5-2
Results of TPH Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**770**	**880**	**1,200**
1349MW01	03/16/06	< 50	79 HY	< 300
	03/21/05	< 50	< 50	< 300
	03/15/04	< 50	< 50	< 300
	12/02/03	< 50	< 50	< 300
	08/21/03	< 50	< 50	< 300
	06/10/03	< 50	< 50	< 300
	03/12/03	NA	< 50	< 300
	12/09/02	< 50	< 50	< 300
DUP1209021A	12/09/02	< 50	< 50	< 300
1349MW01CL	12/09/02	< 50	< 50	< 250
	08/28/02	< 50	< 50	< 300
	05/30/02	< 50	< 50	< 300
	03/06/02	< 50	< 50	< 300
	11/28/01	< 50	< 50	< 300
	08/30/01	< 50	< 50 [3]	< 300 [3]
DUP0830013A	08/30/01	< 50	57 [3] Y,NJ	< 300 [3]
1349MW01CL	08/30/01	< 50	< 50	< 300
	05/10/01	< 50	< 50	< 300
	05/19/99	NA	< 50	< 300
	02/19/99	NA	< 50	< 300
	11/18/98	NA	< 50	< 300
	08/18/98	NA	< 50 (U15)	< 300
	04/16/98	NA	< 50	< 300
	01/22/98	NA	< 50	< 300
	10/30/97	NA	< 50	< 300
	07/31/97	NA	< 50	< 300
	05/01/97	NA	< 50	< 300
	02/10/97	NA	< 50	< 300
	11/25/96	NA	< 50	< 300
	09/12/96	NA	< 50	< 300
	08/08/95	NA	< 50	NA
1349MW02	03/10/06	< 50	< 50	< 300
	08/31/05	< 50	< 50	< 300
	05/25/05	< 50	< 50	< 300
	03/21/05	< 50	< 50	< 300
	12/16/04	< 50	< 50	< 300
	08/12/04	< 50	< 50	< 300
	05/26/04	< 50	< 50	< 300
	03/15/04	< 50	< 50	< 300
	12/02/03	< 50	< 50	< 300
	08/13/03	< 50	290 HY	< 300
	06/05/03	< 50	< 50	< 300
DUP0605032A	06/05/03	< 50	< 50	< 300
	03/12/03	NA	< 50	< 300

Table A-5-2
Results of TPH Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**770**	**880**	**1,200**
1349MW02	12/04/02	< 50	< 50	< 300
DUP1204023A	12/04/02	< 50	< 50	< 300
	08/28/02	< 50	< 50	< 300
	05/30/02	< 50	< 50	< 300
	03/06/02	< 50	< 50	< 300
DUP0306022A	03/06/02	< 50	< 50	< 300
	11/28/01	< 50	< 50	< 300
DUP1128011A	11/28/01	< 50	< 50	< 300
	08/30/01	< 50	57 [3] Y,NJ	< 300 [3]
DUP0830012A	08/30/01	< 50	67 [3] Y,NJ	< 300 [3]
1349MW02CL	08/30/01	< 50	< 50	< 300
1349MW02	05/10/01	< 50	< 50	< 300
	05/19/99	NA	< 50	< 300
	02/19/99	NA	< 50	< 300
	11/18/98	NA	< 50	< 300
	08/18/98	NA	< 50 (U15)	< 300
	04/16/98	NA	< 50	< 300
	01/22/98	NA	< 50	< 300
	10/30/97	NA	< 50	< 300
	07/31/97	NA	58 (R32)	< 300
	05/01/97	NA	< 50	< 300
	02/10/97	NA	< 50	< 300
	11/25/96	NA	< 50	< 300
	09/12/96	NA	< 50	< 300
	08/08/95	NA	< 50	NA
1349MW03R	03/16/06	< 50	< 50	< 300
	08/31/05	< 50	< 50	< 300
	05/25/05	< 50	< 50	< 300
	03/21/05	< 50	< 50	< 300
	12/16/04	< 50	< 50	< 300
	08/10/04	< 50	< 50	< 300
	05/26/04	< 50	< 50	< 300
	03/09/04	< 50	81 HY	770 Z
	12/02/03	< 50	< 50	< 300
	08/13/03	< 50	< 50	< 300
	06/09/03	< 50	< 50	< 300
1349MW100	05/24/06	690 HY	**3,600**	< 300
DUP0524063A	05/24/06	490 HY	**5,200**	< 300
1349MW100CL	05/24/06	350	**5,400**	< 2,100 U
	03/16/06	**1,300 HY**	**6,900**	< 300
	11/30/05	450 HY	**26,000**	< 900
	08/31/05	630 HY	**20,000**	< 300
	05/25/05	690 H	**5,100**	< 300
	03/23/05	**960 HY**	**24,000**	< 600
	12/16/04	**1,400 HY J+**	**6,300**	< 300
	08/10/04	**3,000 HY**	**5,000**	< 300

Table A-5-2
Results of TPH Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**770**	**880**	**1,200**
1349MW100	05/27/04	**920 HY**	**3,600**	< 300
	03/16/04	**930 H**	**31,000**	< 600
	12/02/03	**1,000 HY,J+**	**1,100 LY**	< 300
	08/12/03	700 YH	**9,000**	< 300
	06/09/03	**1,200 YH**	**5,100**	< 300
	03/12/03	610 YH	**1,800**	< 300
	12/10/02	230 Y	**1,500**	< 300
1349MW101	03/16/06	< 50	< 50	< 300
	08/31/05	< 50	< 50	< 300
	05/25/05	< 50	< 50	< 300
DUP0525052A	05/25/05	< 50	< 50	< 300
	03/21/05	< 50	< 50	< 300
	12/15/04	< 50	< 50	< 300
	03/09/04	< 50	< 50	< 300
	12/02/03	< 50	< 50	< 300
	08/19/03	< 50	< 50	< 300
	06/09/03	< 50	< 50	< 300
1349MW102	03/07/06	< 50	< 50	< 300
DUP0307063C	03/07/06	< 50	< 50	< 300
1349MW102CL	03/07/06	< 50 U	60 J+	< 300 U
	08/31/05	< 50	< 50	< 300
DUP0831052A	08/31/05	< 50	< 50	< 300
	05/25/05	< 50	< 50	< 300
	03/21/05	< 50	< 50	< 300
DUP0321053A	03/21/05	< 50	< 50	< 300
	12/16/04	< 50	< 50	< 300
	08/10/04	< 50	< 50	< 300
DUP0810042A	08/10/04	< 50	< 50	< 300
	05/27/04	< 50	51 Y	< 300
DUP0527041A	05/27/04	< 50	< 50	< 300
1349MW102CL	05/27/04	< 50	54	< 240
	03/10/04	< 50	< 50	< 300
DUP0310041A	03/10/04	< 50	< 50	< 300
1349MW102CL	03/10/04	< 50	NA	NA
	12/10/03	< 50	< 50	< 300
DUP1210031A	12/10/03	< 50	< 50	< 300
	08/12/03	< 50	< 50	< 300
	06/09/03	< 50	< 50	< 300
DUP0609032A	06/09/03	< 50	< 50	< 300
1349MW102CL	06/09/03	< 50	< 50	< 250
1349MW103	03/09/06	< 50	54 Y	< 300
	03/23/05	< 50	< 50	< 300
	03/15/04	< 50	< 50	< 300
	12/03/03	< 50	< 50	< 300
DUP1203032A	12/03/03	< 50	< 50	< 300
	08/12/03	< 50	< 50	< 300
	06/05/03	< 50	< 50	< 300

Table A-5-2
Results of TPH Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**770**	**880**	**1,200**
1349MW104	03/09/06	< 50	55 Y	< 300
	03/23/05	< 50	< 50	< 300
	03/15/04	< 50	< 50	< 300
	12/02/03	< 50	< 50	< 300
	08/12/03	< 50	< 50	< 300
	06/06/03	< 50	< 50	< 300
1349MW105	03/20/06	< 50	< 50	< 300
	03/23/05	< 50	< 50	< 300
	03/15/04	< 50	< 50	< 300
	12/02/03	< 50	< 50	< 300
	08/12/03	< 50	< 50	< 300
	06/09/03	< 50	< 50	< 300

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Groundwater cleanup levels were taken from the *Draft Corrective Action Plan Building 1349 Study Area, Presidio of San Francisco, California* (BBL, 2005).
3 - TPH analysis was not run using the silica gel cleanup method 3630A, although it was marked on the chain-of-custody.
Concentrations in **bold** indicate an exceedance of applicable cleanup levels (BBL, 2005).
µg/L - micrograms per liter
NA - Not analyzed
TPH - Total petroleum hydrocarbons
Y - Sample exhibits fuel pattern that does not resemble the standard.
CL suffix denotes a quality control duplicate sample was sent to control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-5-3
Results of VOC Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	1,2-DCA	2-Butanone	Acetone	Benzene	Bromo-form	Carbon Disulfide	Dibromo-chloro-methane	Ethyl-benzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**--**	**--**	**1**	**--**	**--**	**--**	**700**	**--**	**150**	**1,750**	**--**
1349MW01	03/16/06	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/21/05	< 0.5	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/15/04	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/21/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/10/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/12/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/09/02	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	ND
DUP1209021A	12/09/02	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	ND
1349MW01CL	12/09/02	< 0.5	< 5	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/28/02	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/30/02	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/06/02	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/28/01	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/30/01	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0830013A	08/30/01	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW01CL	08/30/01	< 1	< 50	< 50	< 0.5	< 1	< 0.5	< 1	< 0.5	< 5	< 0.5	< 0.5	ND
	05/10/01	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5 UJ	< 0.5 UJ	ND
	02/19/99	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	11/18/98	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	08/18/98	NA	NA	NA	< 0.5 U18	NA	NA	NA	< 0.5 U18	NA	< 0.5 U18	< 0.5 U18	NA
	04/16/98	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	01/22/98	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	10/30/97	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	07/31/97	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	05/01/97	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	02/10/97	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	11/25/96	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	09/12/96	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	0.54	< 0.5	NA
	08/08/95	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA

Table A-5-3
Results of VOC Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	1,2-DCA	2-Butanone	Acetone	Benzene	Bromo-form	Carbon Disulfide	Dibromo-chloro-methane	Ethyl-benzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**--**	**--**	**1**	**--**	**--**	**--**	**700**	**--**	**150**	**1,750**	**--**
1349MW02	03/10/06	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/31/05	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	05/25/05	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/21/05	< 0.5	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/15/04	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/05/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0605032A	06/05/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/12/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/02	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP1204023A	12/04/02	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/28/02	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/30/02	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/06/02	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0306022A	03/06/02	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/28/01	< 0.5	< 10	< 10 UJ	0.8	< 1	< 0.5	< 0.5	< 0.5	< 0.5	1.5	< 0.5	ND
DUP1128011A	11/28/01	< 0.5	< 10	< 10	**1.1**	< 1	< 0.5	< 0.5	< 0.5	< 0.5	2.3	0.7	ND
	08/30/01	< 0.5	< 10	< 10	< 0.5	< 1	1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0830012A	08/30/01	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW02CL	08/30/01	< 1	< 50	< 50	< 0.5	< 1	< 0.5	< 1	< 0.5	< 5	< 0.5	< 0.5	ND
	05/10/01	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/19/99	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	11/18/98	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	08/18/98	NA	NA	NA	< 0.5 U18	NA	NA	NA	< 0.5 U18	NA	< 0.5 U18	< 0.5 U18	NA
	04/16/98	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	01/22/98	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	10/30/97	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	07/31/97	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA

Table A-5-3
Results of VOC Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	1,2-DCA	2-Butanone	Acetone	Benzene	Bromo-form	Carbon Disulfide	Dibromo-chloro-methane	Ethyl-benzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**--**	**--**	**1**	**--**	**--**	**--**	**700**	**--**	**150**	**1,750**	**--**
1349MW02	05/01/97	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	02/10/97	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	11/25/96	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	09/12/96	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
	08/08/95	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
1349MW03R	03/16/06	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/31/05	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/21/05	< 0.5	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/09/04	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW100	05/24/06	< 0.5	< 10	< 10	**29**	< 1	0.7	< 0.5	0.8	< 0.5	< 0.5	3.8	ND
DUP0524063A	05/24/06	< 0.5	< 10	< 10	**28**	< 1	0.8	< 0.5	0.8	< 0.5	< 0.5	3.7	ND
1349MW100CL	05/24/06	< 0.5 U	< 10 U	< 10 U	**30**	< 1 U	< 5 U	< 0.5 U	0.9	< 2 U	< 0.5 U	4.2	ND
	03/16/06	< 0.5	< 10	< 10	**22**	< 1	< 0.5	< 0.5	0.8	< 0.5	< 0.5	0.8	ND
	11/30/05	< 0.5	< 10	< 10 UJ	**18**	< 1	< 0.5	< 0.5	0.6	< 0.5	< 0.5	1.5	ND
	08/31/05	< 0.5	< 10	< 10	**20**	< 1	< 0.5	< 0.5	0.6	< 0.5	< 0.5	< 1	ND
	05/25/05	1.5	< 10	< 10	**39**	< 1	< 0.5	< 0.5	0.9	< 0.5	< 0.5	2	ND
	03/23/05	< 0.5	< 10 UJ	< 10 UJ	**27**	< 1	< 0.5	< 0.5	1.5	< 0.5	< 0.5	2.9	ND
	03/16/04	< 0.5	< 10	< 10	**24**	< 1	< 0.5	< 0.5	2.5	< 0.5	< 0.5	5.5	ND
	12/02/03	< 0.5	< 10	< 10	**7.8**	< 1	< 0.5	< 0.5	2	0.5	0.5	3.8	ND
	08/12/03	< 0.5	< 10	< 10	**9.1**	< 1	< 0.5	< 0.5	1.1	< 0.5	0.5	3	ND
	06/09/03	< 0.5	< 10	< 10	**27**	< 1	1.3	< 0.5	7	< 0.5	0.7	12	ND
	03/12/03	< 0.5	< 10	< 10	**25**	< 1	< 0.5 UJ	< 0.5	5	< 0.5	0.6	9.8	ND
	12/10/02	< 0.5	< 10	< 10	**2.6**	< 1	< 0.5	< 0.5	1.3	< 0.5 UJ	0.8	3	ND
1349MW101	03/16/06	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/31/05	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/21/05	< 0.5	< 10 UJ	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/09/04	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/19/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND

Table A-5-3
Results of VOC Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	1,2-DCA	2-Butanone	Acetone	Benzene	Bromo-form	Carbon Disulfide	Dibromo-chloro-methane	Ethyl-benzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**--**	**--**	**1**	**--**	**--**	**--**	**700**	**--**	**150**	**1,750**	**--**
	06/09/03	< 0.5	< 10	< 10	< 0.5	0.6 J	< 0.5	0.6	< 0.5	< 0.5	< 0.5	< 0.5	ND

Table A-5-3
Results of VOC Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	1,2-DCA	2-Butanone	Acetone	Benzene	Bromo-form	Carbon Disulfide	Dibromo-chloro-methane	Ethyl-benzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**--**	**--**	**1**	**--**	**--**	**--**	**700**	**--**	**150**	**1,750**	**--**
1349MW102	03/07/06	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0307063C	03/07/06	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
1349MW102CL	03/07/06	< 0.5 U	< 10 U	< 10 U	< 0.5 U	< 1 U	< 5 U	< 0.5 U	< 0.5 U	< 2 U	< 0.5 U	< 1 U	ND
	08/31/05	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0831052A	08/31/05	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/21/05	< 0.5	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0321053A	03/21/05	< 0.5	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/10/04	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0310041A	03/10/04	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW102CL	03/10/04	< 0.5	< 5	< 10 R	< 0.5	< 0.5	< 5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/10/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP1210031A	12/10/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/12/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0609032A	06/09/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW102CL	06/09/03	< 0.5	< 5	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW103	03/09/06	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/23/05	< 0.5	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/15/04	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/03/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP1203032A	12/03/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/12/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/05/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW104	03/09/06	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/23/05	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/15/04	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/12/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/06/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND

Table A-5-3
Results of VOC Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	1,2-DCA	2-Butanone	Acetone	Benzene	Bromo-form	Carbon Disulfide	Dibromo-chloro-methane	Ethyl-benzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**--**	**--**	**1**	**--**	**--**	**--**	**700**	**--**	**150**	**1,750**	**--**
1349MW105	03/20/06	< 0.5	< 10	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/23/05	< 0.5	< 10 UJ	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/15/04	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/12/03	< 0.5	< 10	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 0.5	< 10	12	< 0.5	< 1	1.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Groundwater cleanup levels were taken from the Draft Corrective Action Plan Building 1349 Study Area, Presidio of San Francisco, California (BBL, 2005).
Concentrations in **bold** indicate an exceedance of applicable cleanup levels.
"--" cleanup level not established
µg/L - micrograms per liter
ND - Not detected
NA - Not analyzed
NS - Not sampled
VOC - Volatile organic compound
MTBE - Methyl tert-butyl ether
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-5-4
Results of OCP and PCB Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	alpha-Chlordane	beta-BHC	delta-BHC	Dieldrin	Endosulfan II	Endrin	gamma-BHC	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Methoxy-chlor	All Other OCPs/PCBs
	Analytical Method[1]	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**0.15**	**0.10**	**0.10**	**0.002**	**0.1**	**0.3**	**--**	**0.5**	**42**	**2**	**0.2**	**0.1**	**0.01**	**0.01**	**40**	**--**
1349MW01	03/16/06	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / NA
	03/21/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.05	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/15/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/02/03	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
	08/21/03	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	06/10/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/12/03	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	12/09/02	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	< 0.049	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	< 0.049	< 0.49	ND
DUP1209021A	12/09/02	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	< 0.049	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	< 0.049	< 0.49	ND
1349MW01CL	12/09/02	< 0.1	< 0.1	< 0.1	< 0.05 UJ	NA	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.5	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	08/28/02	< 0.097	< 0.097	< 0.097	< 0.049 UJ	< 0.049	< 0.049 UJ	< 0.049 UJ	< 0.097	< 0.097	< 0.097	< 0.049 UJ	< 0.049	< 0.049 UJ	< 0.049 UJ	< 0.49	ND
	05/30/02	< 0.098	< 0.098	< 0.098	< 0.049 UJ	< 0.049	< 0.049 UJ	< 0.049 UJ	< 0.098	< 0.098	< 0.098	< 0.049 UJ	< 0.049	< 0.049 UJ	< 0.049 UJ	< 0.49	ND
	03/06/02	< 0.098	< 0.098	< 0.098 UJ	< 0.049 UJ	< 0.049	< 0.049 UJ	< 0.049 UJ	< 0.098	< 0.098	< 0.098	< 0.049 UJ	< 0.049	< 0.049 UJ	< 0.049 UJ	< 0.49	ND
	11/28/01	< 0.096	< 0.096	< 0.096	< 0.048	< 0.048	< 0.048	< 0.048	< 0.096	< 0.096	< 0.096	< 0.048	< 0.048	< 0.048	< 0.048	< 0.48	ND
	08/30/01	< 0.097 UJ	< 0.097 UJ	< 0.097 UJ	< 0.049	< 0.049 UJ	< 0.049	< 0.049	< 0.097 UJ	< 0.097 UJ	< 0.097 UJ	< 0.049	< 0.049 UJ	< 0.049	< 0.049	< 0.49 UJ	ND
DUP0830013A	08/30/01	< 0.098	< 0.098	< 0.098	< 0.049	< 0.049	< 0.049	< 0.049	< 0.098	< 0.098	< 0.098	< 0.049	< 0.049	< 0.049	< 0.049	< 0.49	ND
1349MW01CL	08/30/01	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	ND
	05/10/01	< 0.094 UJ	< 0.094 UJ	< 0.094 UJ	< 0.047	< 0.047 UJ	< 0.047	< 0.047	< 0.094 UJ	< 0.094 UJ	< 0.094 UJ	< 0.047	< 0.047 UJ	< 0.047	< 0.047	< 0.47 UJ	ND
1349MW02	03/10/06	< 0.1	< 0.1	< 0.1 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/31/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/25/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/21/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.05	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/16/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/12/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/26/04	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/15/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/02/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/13/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	06/05/03	< 0.09	< 0.09	< 0.09 UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
DUP0605032A	06/05/03	< 0.09	< 0.09	< 0.09 UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/12/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/04/02	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	< 0.049	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	< 0.049	< 0.49	ND
DUP1204023A	12/04/02	< 0.094 UJ	< 0.094 UJ	< 0.094 UJ	< 0.047	< 0.047 UJ	< 0.047	< 0.047	< 0.094 UJ	< 0.094 UJ	< 0.094 UJ	< 0.047	< 0.047 UJ	< 0.047	< 0.047	< 0.47 UJ	ND
	08/28/02	< 0.095	< 0.095	< 0.095	< 0.048	< 0.048	< 0.048	< 0.048	< 0.095	< 0.095	< 0.095	< 0.048	< 0.048	< 0.048	< 0.048	< 0.48	ND
	05/30/02	< 0.099	< 0.099	< 0.099	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.099	< 0.099	< 0.099	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND

Table A-5-4
Results of OCP and PCB Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	alpha-Chlordane	beta-BHC	delta-BHC	Dieldrin	Endosulfan II	Endrin	gamma-BHC	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Methoxy-chlor	All Other OCPs/PCBs
	Analytical Method[1]	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**0.15**	**0.10**	**0.10**	**0.002**	**0.1**	**0.3**	**--**	**0.5**	**42**	**2**	**0.2**	**0.1**	**0.01**	**0.01**	**40**	**--**
1349MW02	03/06/02	< 0.095	< 0.095	< 0.095 UJ	< 0.048	< 0.048	< 0.048	< 0.048	< 0.095	< 0.095	< 0.095	< 0.048 UJ	< 0.048	< 0.048	< 0.048	< 0.48	ND
DUP0306022A	03/06/02	< 0.095	< 0.095	< 0.095 UJ	< 0.048 UJ	< 0.048	< 0.048 UJ	< 0.048 UJ	< 0.095	< 0.095	< 0.095	< 0.048 UJ	< 0.048	< 0.048 UJ	< 0.048 UJ	< 0.48	ND
	11/28/01	< 0.096	< 0.096	< 0.096	< 0.048	< 0.048	< 0.048	< 0.048	< 0.096	< 0.096	< 0.096	< 0.048	< 0.048	< 0.048	< 0.048	< 0.48	ND
DUP1128011A	11/28/01	< 0.096 UJ	< 0.096 UJ	< 0.096 UJ	< 0.048	< 0.048 UJ	< 0.048	< 0.048	< 0.096 UJ	< 0.096 UJ	< 0.096 UJ	< 0.048	< 0.048 UJ	< 0.048	< 0.048	< 0.48 UJ	ND
	08/30/01	< 0.098 UJ	< 0.098 UJ	< 0.098 UJ	< 0.049	< 0.049 UJ	< 0.049	< 0.049	< 0.098 UJ	< 0.098 UJ	< 0.098 UJ	< 0.049	< 0.049 UJ	< 0.049	< 0.049	< 0.49 UJ	ND
DUP0830012A	08/30/01	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	< 0.049	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	< 0.049	< 0.49	ND
1349MW02CL	08/30/01	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	ND
	05/10/01	< 0.094	< 0.094	< 0.094	< 0.047	< 0.047	< 0.047	< 0.047	< 0.094	< 0.094	< 0.094	< 0.047	< 0.047	< 0.047	< 0.047	< 0.47	ND
1349MW03R	03/16/06	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/31/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/25/05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/21/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.05	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/16/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/10/04	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/26/04	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	03/09/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	0.08 C	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/02/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/13/03	< 0.09	< 0.09	< 0.09	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.09	< 0.09	< 0.09	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	06/09/03	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
1349MW100	05/24/06	< 0.5	< 0.5	0.8 C	< 0.2	< 0.2	< 0.5 # UJ	< 0.2 # UJ	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 0.2	0.4	< 2.4	ND
DUP0524063A	05/24/06	< 0.5	< 0.5	0.8	0.3 C	0.8	< 0.5 # UJ	< 0.2 # UJ	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 0.2	0.3	< 2.4	ND
1349MW100CL	05/24/06	< 0.1 U UJ	< 0.1 U UJ	< 0.1 U UJ	< 0.05 U	< 0.5 U UJ	< 0.05 U	< 0.05 U	< 0.1 U UJ	< 0.1 U UJ	< 0.1 U UJ	0.082	NA	< 0.05 U	< 0.05 U	< 0.5 U UJ	ND
	03/16/06	**0.9 C J-**	< 0.1 UJ	< 0.1 UJ	**0.3**	**0.9 C J-**	< 0.05	0.1 C	0.4 C J-	< 0.1 UJ	< 0.1 UJ	< 0.05	**0.7 C J-**	**0.8 C**	**0.2**	< 0.5 UJ	ND
	11/30/05	< 0.5	< 0.5	< 0.5	< 0.2	**0.3 C**	< 0.2	< 0.2	< 0.5	< 0.5	< 0.5	**1.3**	< 0.2	< 0.2	< 0.2	< 2.4	ND
	08/31/05	< 0.1	< 0.1	**1 Cb J**	< 0.05	**0.2 C**	< 0.5	0.08 b J	0.1	0.8 C	< 0.1	**8.5 Cb J**	**0.2**	< 0.05	**0.2 C**	< 0.5	ND
	05/25/05	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 0.5	< 1	< 1	< 1	**4.5 #C**	< 0.5	< 0.5	< 0.5	< 4.8	ND
	03/23/05	< 1	< 1	< 1 # UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 5	ND
	12/16/04	< 1	< 1 #	< 1 # UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 4.8 # UJ	ND
	08/10/04	**0.9 C**	**1.1 C**	**0.4**	**0.2**	**0.1**	< 0.05	0.1 C	**0.5 C**	< 0.1	0.1 C	**3.7 C**	< 0.05	**1.6 C**	< 0.05	< 0.5	ND
	05/27/04	< 0.2 UJ	< 0.2 UJ	**0.5 C, J-**	< 0.09	**0.2 C, J-**	< 0.09	0.2 C	0.3 J-	0.7 C, J-	0.2 J-	< 0.2	**0.1 J-**	**0.8 C**	**0.2 C**	< 0.9 UJ	ND
	03/16/04	< 0.09 UJ	**0.7 Cb, J-**	**0.7 C, J-**	< 0.05 UJ	**0.2 J-**	< 0.05 UJ	0.08 b, J-	0.3 J-	0.6 J-	0.2 J-	< 0.05 UJ	**0.3 C, J-**	**0.8 Cb, J-**	**0.2 C, J-**	1.2 b, J-	ND
	12/02/03	**0.5 C**	**0.7 C**	**0.5 Cb, J-**	< 0.05	< 0.05	**3.9 C**	0.06 C	0.1	< 0.09	< 0.09	**2.3 C**	< 0.05	< 0.05	**0.2 C**	< 0.5	ND
	08/12/03	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	**0.2 C**	**0.1 J-**	< 0.2	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	**4.6 C**	0.07 J-	**2.6 Cb,J-**	**0.1**	< 0.5 UJ	ND
	06/09/03	**0.3 C, J-**	**0.3 C, J-**	< 0.09 UJ	**0.07 C**	< 0.05 UJ	< 0.05	0.2 C	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	**4.5 C**	**0.4 C, J-**	< 0.05	< 0.05	< 0.5 UJ	ND
	03/12/03	**0.3 Cb, J+**	< 0.1 UJ	**0.2 C, J-**	**0.3 C, J+**	**0.2 C, J-**	**6.1 C, J+**	0.1 C, J+	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	**2.2 C, J+**	**0.2 C, J-**	**0.8 C, J+**	**0.3 C J+**	< 0.5 UJ	ND
	12/10/02	< 0.097	< 0.097	< 0.097	**0.11 C,J-**	< 0.049	**1.5 C, J-**	< 0.049 UJ	< 0.097	< 0.097	< 0.097	**0.43 C, J-**	< 0.049	**0.83 C, J-**	< 0.049 UJ	< 0.49	ND

Table A-5-4
Results of OCP and PCB Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	alpha-Chlordane	beta-BHC	delta-BHC	Dieldrin	Endosulfan II	Endrin	gamma-BHC	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Methoxy-chlor	All Other OCPs/PCBs
	Analytical Method[1]	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**0.15**	**0.10**	**0.10**	**0.002**	**0.1**	**0.3**	**--**	**0.5**	**42**	**2**	**0.2**	**0.1**	**0.01**	**0.01**	**40**	**--**
1349MW101	03/16/06	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/31/05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/25/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
DUP0525052A	05/25/05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/21/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.05	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/15/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/09/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	0.06 C	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/02/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/19/03	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	06/09/03	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.09 UJ	ND
1349MW102	03/07/06	< 0.1	< 0.1	< 0.1 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
DUP0307063C	03/07/06	< 0.1	< 0.1	< 0.1 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
1349MW102CL	03/07/06	< 0.1 U R	< 0.1 U R	< 0.1 U R	< 0.05 U UJ	< 0.5 U R	< 0.05 U UJ	< 0.05 U UJ	< 0.1 U R	< 0.1 U R	< 0.1 U R	< 0.05 U UJ	NA	< 0.05 U UJ	< 0.05 U UJ	< 0.5 U R	ND
	08/31/05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
DUP0831052A	08/31/05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/25/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/21/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.05	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
DUP0321053A	03/21/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.05	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/10/04	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
DUP0310041A	03/10/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
1349MW102CL	03/10/04	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05 UJ	NA	< 0.05 UJ	< 0.05 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05 UJ	< 0.5 UJ	< 0.05 UJ	< 0.05 UJ	< 0.5 UJ	ND
	12/16/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/10/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
DUP0527041A	08/10/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/27/04	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
DUP0527041A	05/27/04	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
1349MW102CL	05/27/04	< 0.098	< 0.098	< 0.098	< 0.049	NA	< 0.049	< 0.049	< 0.098	< 0.098	< 0.098	< 0.049	< 0.49	< 0.049	< 0.049	< 0.49	ND
	12/10/03	< 0.1	< 0.1	< 0.1 b,UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	0.07 C,J+	< 0.05	< 0.05 b,UJ	< 0.05	< 0.5 b,UJ	ND
DUP1210031A	12/10/03	< 0.09	< 0.09	< 0.09 b,UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	0.07 J+	< 0.05	< 0.05 b,UJ	< 0.05	< 0.5 b,UJ	ND
	08/12/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05 UJ	< 0.05	< 0.5	ND
	06/09/03	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
DUP0609032A	06/09/03	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
1349MW102CL	06/09/03	< 0.095 UJ	< 0.095 UJ	< 0.095 UJ	< 0.048 UJ	NA	< 0.048 UJ	< 0.048 UJ	< 0.095 UJ	< 0.095 UJ	< 0.095 UJ	< 0.048 UJ	< 0.48 UJ	< 0.048 UJ	< 0.048 UJ	< 0.48 UJ	ND

Table A-5-4
Results of OCP and PCB Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	alpha-Chlordane	beta-BHC	delta-BHC	Dieldrin	Endosulfan II	Endrin	gamma-BHC	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Methoxy-chlor	All Other OCPs/PCBs
	Analytical Method[1]	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**0.15**	**0.10**	**0.10**	**0.002**	**0.1**	**0.3**	**--**	**0.5**	**42**	**2**	**0.2**	**0.1**	**0.01**	**0.01**	**40**	**--**
1349MW103	03/09/06	< 0.1	< 0.1	< 0.1 UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / NA
	03/23/05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.05	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 # UJ	ND
	03/15/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/03/03	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
DUP1203032A	12/03/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/12/03	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	06/05/03	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.5 UJ	ND
1349MW104	03/09/06	< 0.1	< 0.1	< 0.1 UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / NA
	03/23/05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.05	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 # UJ	ND
	03/15/04	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
	12/02/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/12/03	< 0.09	< 0.09	< 0.09	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.09	< 0.09	< 0.09	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	06/06/03	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
1349MW105	03/20/06	< 0.1	< 0.1	< 0.1 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5 # UJ	ND / NA
	03/23/05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.05	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 # UJ	ND
	03/15/04	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.5 UJ	ND
	12/02/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/12/03	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	06/09/03	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.5 UJ	ND

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Groundwater cleanup levels were taken from the *Draft Corrective Action Plan Building 1349 Study Area, Presidio of San Francisco, California* (BBL, 2005).
Bold numbers indicate detected concentrations which exceed drinking water quality criteria.
µg/L - micrograms per liter
-- cleanup level not established
ND - Not detected
NA - Not analyzed
- The continuing calibration verification (CCV) drifted outside the limits although the average CCV drift was within method requirements.
OCPs - Organochlorine pesticides
PCBs - Polychlorinated biphenyls
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-5-5
Results of PAH Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	Acenaphthene	Anthracene	Benzo(a)-Anthracene	Benzo(a)-Pyrene	Benzo(b)-Fluoranthene	Benzo(g,h,i)-Perylene	Benzo(k)-Fluoranthene	Chrysene	Dibenz(a,h)-Anthracene	Fluor-anthene	Fluorene	Indeno-(1,2,3-c,d)-Pyrene	Naph-thalene	Phen-anthrene	Pyrene	All Other PAHs
	Analytical Method[1]	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Level [2]		**420**	**770**	**0.1**	**0.2**	**0.2**	**150**	**2**	**20**	**0.0085**	**300**	**300**	**0.029**	**300**	**230**	**230**	**--**
1349MW01	03/16/06	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	03/21/05	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	03/15/04	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	12/02/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	08/21/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	06/10/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	03/12/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	12/09/02	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
DUP1209021A	12/09/02	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
1349MW01CL	12/09/02	< 0.5	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.05	< 0.2	< 0.1	< 0.1	< 0.05	< 0.5	< 0.05	< 0.05	ND
	08/28/02	< 0.99	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 0.99	< 0.14	< 0.99	< 0.5	< 0.2	ND
	05/30/02	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	03/06/02	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	11/28/01	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	08/30/01	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
DUP0830013A	08/30/01	< 1.1	< 0.53	< 0.11	< 0.11	< 0.21	< 0.19	< 0.11	< 0.11	< 0.19	< 0.43	< 1.1	< 0.13	< 1.1	< 0.53	< 0.21	ND
1349MW01CL	08/30/01	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.15	< 0.1	< 0.1	< 0.15	< 0.1	< 0.15	ND
	05/10/01	< 0.95 UJ	< 0.48 UJ	< 0.1 UJ	< 0.1 UJ	< 0.19 UJ	< 0.19 UJ	< 0.1 UJ	< 0.1 UJ	< 0.19 UJ	< 0.38 UJ	< 0.95 UJ	< 0.13 UJ	< 0.95 UJ	< 0.48 UJ	< 0.19 UJ	ND
1349MW02	03/10/06	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	08/31/05	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	05/25/05	< 0.99	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 0.99	< 0.14	< 0.99	< 0.5	< 0.2	ND
	03/21/05	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	03/15/04	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	12/02/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	08/13/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	06/05/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
DUP0605032A	06/05/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	03/12/03	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	12/04/02	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
DUP1204023A	12/04/02	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	08/28/02	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	05/30/02	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	03/06/02	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
DUP0306022A	03/06/02	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	11/28/01	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
DUP1128011A	11/28/01	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	08/30/01	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
DUP0830012A	08/30/01	< 1	< 0.51	< 0.1	< 0.1	< 0.2	< 0.19	< 0.1	< 0.1	< 0.19	< 0.41	< 1	< 0.13	< 1	< 0.51	< 0.2	ND
1349MW02CL	08/30/01	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.15	< 0.1	< 0.1	< 0.15	< 0.1	< 0.15	ND
	05/10/01	< 0.97	< 0.49 UJ	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND

Table A-5-5
Results of PAH Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	Acenaphthene	Anthracene	Benzo(a)-Anthracene	Benzo(a)-Pyrene	Benzo(b)-Fluoranthene	Benzo(g,h,i)-Perylene	Benzo(k)-Fluoranthene	Chrysene	Dibenz(a,h)-Anthracene	Fluor-anthene	Fluorene	Indeno-(1,2,3-c,d)-Pyrene	Naph-thalene	Phen-anthrene	Pyrene	All Other PAHs
	Analytical Method[1]	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Level [2]		**420**	**770**	**0.1**	**0.2**	**0.2**	**150**	**2**	**20**	**0.0085**	**300**	**300**	**0.029**	**300**	**230**	**230**	**--**
1349MW03R	03/16/06	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	08/31/05	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	03/21/05	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	03/09/04	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	12/02/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	08/13/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	06/09/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
1349MW100	05/24/06	3.6	0.2 J	**0.11**	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	1.6	7.5	< 0.14	< 1	4.9	0.38	ND
DUP0524063A	05/24/06	4.3	0.28 J	**0.14**	< 0.1	< 0.2	< 0.2	< 0.1	0.1	< 0.2	1.8	8.4	< 0.14	< 0.98	5.8	0.48	ND
1349MW100CL	05/24/06	5.6 P J-	0.24 P J-	**0.48 P J-**	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.5 U UJ	0.38 P J-	4 J-	< 0.2 U UJ	< 5 U UJ	3.5 J-	0.44 P J-	ND
	03/16/06	6.6	0.36 J	**0.35**	< 0.1	< 0.19	< 0.19	< 0.1	0.29	< 0.19	2.3	10	< 0.13	< 0.96	9	0.75	ND
	11/30/05	12 J+	2.8 J+	**3.7 J+**	< 0.09	**0.74 J+**	< 0.19	0.31 J+	4.1 J+	< 0.19	22 J+	29 J+	< 0.13	< 0.94	63 J+	7.8 J+	ND
	08/31/05	10 J+	< 0.48	**1.3 J+**	< 0.1	< 0.19	< 0.19	< 0.1	0.74 J+	< 0.19	11 J+	< 0.95	< 0.13	< 0.95	9.2 J+	0.65 J+	ND
	05/25/05	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	0.78 J+	18 J+	< 0.13	< 0.94	8.4 J+	0.34 J+	ND
	03/23/05	< 0.95	< 0.48	< 0.1	**0.63 J+**	**4.8 J+**	< 0.19	0.85 J+	< 0.1	**1.7 J+**	5.4 J+	22	< 0.13	< 0.95	34	3.8 J+	ND
	03/16/04	< 19	< 9.4	**6.2**	< 1.9	< 3.8	< 3.8	< 1.9	2.7	< 3.8	14	46	< 2.6	< 19	86	< 3.8	ND
	12/02/03	< 0.95	0.59 J,J+	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	0.32 J+	< 0.19	0.96 J+	11 J+	< 0.13	< 0.95	9.6 J+	0.28 J+	ND
	08/12/03	< 0.95	1.1 J+	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	0.81 J+	< 0.19	1.7 J+	19 J+	< 0.13	< 0.95	18 J+	0.51 J+	ND
	06/09/03	< 0.94	< 0.47	**0.53 J+**	< 0.09	< 0.19	< 0.19	< 0.09	1 J+	< 0.19	2.4 J+	13 J+	< 0.13	7.5 J+	17 J+	0.75 J+	ND
	03/12/03	< 0.98	< 0.49	**0.14**	< 0.1	< 0.2	< 0.2	< 0.1	0.16	< 0.2	< 0.39	5.2	< 0.14	< 0.98	5.3	0.27	ND
	12/10/02	< 0.94	0.25 J	**0.15**	< 0.09	< 0.19	< 0.19	< 0.09	0.17	< 0.19	0.43	4	< 0.13	< 0.94	4.2	0.23	ND
1349MW101	03/16/06	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	08/31/05	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	03/21/05	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	03/09/04	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	12/02/03	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	08/19/03	< 0.95 UJ	< 0.48 UJ	< 0.1 UJ	< 0.1 UJ	< 0.19 UJ	< 0.19 UJ	< 0.1 UJ	< 0.1 UJ	< 0.19 UJ	< 0.38 UJ	< 0.95 UJ	< 0.13 UJ	< 0.95 UJ	< 0.48 UJ	< 0.19 UJ	ND
	06/09/03	< 0.94 UJ	< 0.47 UJ	< 0.09 UJ	< 0.09 UJ	< 0.19 UJ	< 0.19 UJ	< 0.09 UJ	< 0.09 UJ	< 0.19 UJ	< 0.38 UJ	< 0.94 UJ	< 0.13 UJ	< 0.94 UJ	< 0.47 UJ	< 0.19 UJ	ND
1349MW102	03/07/06	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
DUP0307063C	03/07/06	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
1349MW102CL	03/07/06	< 5 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.5 U UJ	< 0.2 U UJ	< 1 U UJ	< 0.2 U UJ	< 5 U UJ	< 1 U UJ	< 0.2 U UJ	ND
	08/31/05	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
DUP0831052A	08/31/05	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	03/21/05	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
DUP0321053A	03/21/05	< 1	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 1	< 0.14	< 1	< 0.5	< 0.2	ND
	03/10/04	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
DUP0310041A	03/10/04	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
1349MW102CL	03/10/04	< 0.5	< 0.05	< 0.05	< 0.05 R	< 0.1 UJ	< 0.1 UJ	< 0.05 UJ	< 0.05	< 0.2 UJ	< 0.1	< 0.1	< 0.05 UJ	< 0.5	< 0.05	< 0.05	ND

Table A-5-5
Results of PAH Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	Acenaphthene	Anthracene	Benzo(a)-Anthracene	Benzo(a)-Pyrene	Benzo(b)-Fluoranthene	Benzo(g,h,i)-Perylene	Benzo(k)-Fluoranthene	Chrysene	Dibenz(a,h)-Anthracene	Fluor-anthene	Fluorene	Indeno-(1,2,3-c,d)-Pyrene	Naph-thalene	Phen-anthrene	Pyrene	All Other PAHs
	Analytical Method[1]	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Level [2]		**420**	**770**	**0.1**	**0.2**	**0.2**	**150**	**2**	**20**	**0.0085**	**300**	**300**	**0.029**	**300**	**230**	**230**	**--**
1349MW102	12/10/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
DUP1210031A	12/10/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	08/12/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	06/09/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
DUP0609032A	06/09/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
1349MW102CL	06/09/03	< 0.48	< 0.048	< 0.048	< 0.048	< 0.095	< 0.095	< 0.048	< 0.048	< 0.19	< 0.095	< 0.095	< 0.048	< 0.48	< 0.048	< 0.048	ND
1349MW103	03/09/06	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	03/23/05	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	03/15/04	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	12/03/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	0.16	< 0.19	0.1 J	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
DUP1203032A	12/03/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	08/12/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	06/05/03	< 0.95	0.1 J	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	0.16	< 0.19	0.25 J	< 0.95	< 0.13	< 0.95	0.84	< 0.19	ND
1349MW104	03/09/06	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	03/23/05	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	03/15/04	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	12/02/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	08/12/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	06/06/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
1349MW105	03/20/06	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	03/23/05	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	03/15/04	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	12/02/03	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	08/12/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	06/09/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	0.02 J	< 0.95	< 0.13	< 0.96	< 0.48	< 0.19	ND

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Groundwater cleanup levels were taken from the Draft Corrective Action Plan Building 1349 Study Area, Presidio of San Francisco, California (BBL, 2005).
BOLD concentrations indicate an exceedance of applicable cleanup levels.
-- cleanup level not established
µg/L - micrograms per liter
ND - Not detected
NS - Not sampled
PAHs - Polycyclic aromatic hydrocarbons
CL suffix denotes a quality control duplicate sample was sent to control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-5-6
Results of Chlorinated Herbicide Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	2,4-D	2,4-DB	All Other Chlorinated Herbicides
	Analytical Method[1]	SW8151/ SW8151A	SW8151/ SW8151A	SW8151/ SW8151A
		(µg/L)	(µg/L)	(µg/L)
1349MW01	03/15/04	< 0.24 U	< 0.96 U	ND
	12/02/03	< 0.24 U	< 0.96 U	ND
	08/21/03	< 0.25	< 1	ND
	06/10/03	< 0.24	< 0.96	ND
1349MW02	08/31/05	< 0.25 U	< 1 U	ND
	03/21/05	< 0.25 U	< 1 U	ND
	12/16/04	< 0.25 U	< 1 U	ND
	08/12/04	< 0.24 U UJ	< 0.96 U UJ	ND
	05/26/04	< 0.24 U	< 0.96 U	ND
	03/15/04	< 0.24 U	< 0.96 U	ND
	12/02/03	< 0.24 U	< 0.96 U	ND
	08/13/03	< 0.24	< 0.96	ND
	06/05/03	< 0.24	< 0.96	ND
DUP0605032A	06/05/03	< 0.24	< 0.96	ND
1349MW03R	08/31/05	< 0.25 U	< 1 U	ND
	03/21/05	< 0.25 U	< 1 U	ND
	12/16/04	< 0.25 U UJ	< 1 U UJ	ND
	08/10/04	< 0.24 U	< 0.96 U	ND
	05/26/04	< 0.24 U	< 0.96 U	ND
	03/09/04	< 0.24 U	< 0.96 U	ND
	12/02/03	< 0.24 U	< 0.96 U	ND
	08/13/03	< 0.24	< 0.96	ND
	06/09/03	< 0.24	< 0.96	ND
1349MW100	08/31/05	< 0.25 U	< 1 U	ND
	03/23/05	< 0.25 U	< 1 U	ND
	12/16/04	< 0.25 U	< 1 U	ND
	08/10/04	< 0.24 U	< 0.96 U	ND
	05/27/04	< 0.24 U	< 0.96 U	ND
	03/16/04	< 0.24 U	< 0.96 U	ND
	12/02/03	< 0.24 U	< 0.96 U	ND
	08/12/03	2.1	12	ND
	06/09/03	< 0.24	< 0.96	ND
1349MW101	08/31/05	< 0.25 U	< 1 U	ND
	03/21/05	< 0.25 U	< 1 U	ND
	03/09/04	< 0.24 U	< 0.96 U	ND
	12/02/03	< 0.24 U	< 0.96 U	ND
	08/19/03	< 0.24	< 0.96	ND
	06/09/03	< 0.24	< 0.96	ND

Table A-5-6
Results of Chlorinated Herbicide Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	2,4-D	2,4-DB	All Other Chlorinated Herbicides
	Analytical Method[1]	SW8151/ SW8151A	SW8151/ SW8151A	SW8151/ SW8151A
		(µg/L)	(µg/L)	(µg/L)
1349MW102	08/31/05	< 0.25 U	< 1 U	ND
DUP0831052A	08/31/05	< 0.25 U	< 1 U	ND
	03/21/05	< 0.25 U	< 1 U	ND
DUP0321053A	03/21/05	< 0.25 U	< 1 U	ND
	12/16/04	< 0.25 U	< 1 U	ND
	08/10/04	< 0.24 U	< 0.96 U	ND
DUP0810042A	08/10/04	< 0.24 U	< 0.96 U	ND
	05/27/04	< 0.24 U	< 0.96 U	ND
DUP0527041A	05/27/04	< 0.24 U	< 0.96 U	ND
1349MW102CL	05/27/04	< 0.24	< 0.24	ND
	03/10/04	< 0.24 U	< 0.96 U	ND
1349MW102CL	03/10/04	< 0.25 UJ	< 0.25 UJ	ND
	12/10/03	< 0.24 U	< 0.96 U	ND
DUP1210031A	12/10/03	< 0.24 U	< 0.96 U	ND
	08/12/03	< 0.25	< 1	ND
	06/09/03	< 0.24	< 0.96	ND
DUP0609032A	06/09/03	< 0.24	< 0.96	ND
1349MW102CL	06/09/03	< 0.24 UJ	< 0.24 UJ	ND
1349MW103	03/15/04	< 0.24 U	< 0.96 U	ND
	12/03/03	< 0.24 U	< 0.96 U	ND
DUP1203032A	12/03/03	< 0.24 U	< 0.96 U	ND
	08/12/03	< 0.25	< 1	ND
	06/05/03	< 0.24	< 0.96	ND
1349MW104	03/15/04	< 0.24 U	< 0.96 U	ND
	12/02/03	< 0.24 U	< 0.96 U	ND
	08/12/03	< 0.25	< 1	ND
	06/06/03	< 0.24	< 0.96	ND
1349MW105	03/15/04	< 0.24 U	< 0.96 U	ND
	12/02/03	< 0.24 U	< 0.96 U	ND
	08/12/03	< 0.25	< 1	ND
	06/09/03	< 0.24	< 0.96	ND

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
µg/L - micrograms per liter
ND - Not detected
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-5-7
Results of Dissolved Metals Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium[2]	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method [1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Level [3]		**--**	**6**	**10**	**1,000**	**4**	**5**	**--**	**50**	**140**	**1,000**	**21**	**--**	**15**	**--**	**--**	**2**	**100**	**--**	**50**	**50**	**--**	**2**	**15**	**5,000**	**--**
1349MW01	03/16/06	< 100	< 1	< 5	32	< 2	< 1	110,000	< 10	< 10	< 1	NA	< 100	< 3	230,000 J	< 10	< 0.2	< 20	1900 J-	< 5	< 1	250,000	< 1	< 10	< 20	2,040 J
	03/21/05	< 100	< 1	< 5	34	< 2	< 1	92,000	< 10	< 10	1.1	NA	220	< 3	170,000	< 10	< 0.2	< 20	1,700	< 5	< 1	190,000	< 1	< 10	< 20	1,500
	03/15/04	< 100	< 1	< 5	34 J-	< 2	< 1	110,000	< 10	< 10	3	NA	270	< 3	210,000	< 10	< 0.2	< 20	1,800	< 5	< 1	250,000	< 1	< 10	< 20	1,650
	12/02/03	< 100	< 1	< 5	38	< 2	< 1	86,000	< 10	< 10	1.3	NA	370	< 3	180,000	< 10	< 0.2	< 20	1,900	< 5	< 1 UJ	200,000	< 1	< 10	< 20	1,240
	08/21/03	< 100	< 1	< 5	39	< 2	< 1	94,000	< 10	< 10	< 1	NA	610	< 3	200,000	< 10	< 0.2	< 20	1,700	5.3	< 1 UJ	200,000	< 1	< 10	< 20 UJ	1,660
	06/10/03	< 100	< 1	< 5	38	< 2	< 1	100,000	< 10	< 10	< 1	NA	150	< 3	180,000	12	< 0.2	< 20	1,900	< 5	< 1	170,000	< 1	< 10	< 20	1,650
	12/09/02	< 100	< 1	< 1	44	< 1	< 1	100,000	8.2	< 1	< 1	< 10	330	< 3	210,000	10 J	0.22	6.9	2,100	< 5	< 1 UJ	200,000	< 1	< 10	< 10	1,490
DUP1209021A	12/09/02	< 100	< 1	< 1	46	< 1	< 1	100,000	10	< 1	< 1	< 10	320	< 3	210,000	12 J	< 0.2	11	2,100	< 5	< 1 UJ	190,000	< 1	< 10	< 10	1,580
1349MW01CL	12/09/02	< 300	< 5	**14**	46	< 1	< 1	110,000 J+	7.3	< 7	6.5	< 5	< 150	< 3	240,000	11	< 0.2	12	2,600	6.1	< 1	210,000	< 2	< 10	< 10	1,600
	08/28/02	< 100	< 1	< 1	280	< 1	< 1	110,000	1.2 J	< 1	1.3	< 10	180	< 3	230,000	< 10	< 0.2	3.8	2,000	< 5	< 1 UJ	230,000	< 1	< 10	30	1,750
	05/30/02	< 100	< 1	< 1	42	< 1	< 1	100,000	3.2	< 1	1.2	< 10 UJ	200	< 3	210,000	< 10	< 0.2	4.3	2,000	< 5	< 1 UJ	210,000	< 1	< 10	< 10	1,670
	03/06/02	< 100	1.1	1.1	450	< 1	< 1	130,000	3.8	< 1	1.4	< 10	480	< 3	270,000	< 10	< 0.2	5.6	2,200	< 5	1.8 J-	290,000	< 1	< 10	90	1,660
	11/28/01	< 100	< 1	1.9	590	< 1	< 1	120,000	27 J	< 1	3.4	< 10	< 100	< 3	250,000	15	< 0.2	8.8	2,500	11	< 1	240,000	< 1	< 10	200	1,610
	08/30/01	< 100	1.6	< 1	470 J+	< 1	< 1	98,000	16	< 1	2.7	< 10 UJ	300	< 3	260,000	15	< 0.2	14	2,300	< 5	< 1 UJ	210,000	< 1	< 10	98	NA
DUP0830013A	08/30/01	< 100	< 1	< 1	110 J+	< 1	< 1	98,000	15	< 1	2	< 10 UJ	300	< 3	260,000	15	< 0.2	17	1,800	< 5	< 1 UJ	210,000	< 1	< 10	13	NA
1349MW01CL	08/30/01	< 200	0.53 J	< 2	110	< 1	< 1	100,000	7.2	0.97 J	1.5 J	< 10	< 200	< 5	220,000	16	< 0.2	6.7	2,600	7.4	< 1	260,000	< 5	< 5	19	2,100
	05/10/01	< 100	< 1	1.3	620	< 1	< 1	110,000	10 J	< 1	4.6 J	< 10 UJ	840	< 3	230,000	11	< 0.2	5.4 J	2,700	5.9	< 1 UJ	220,000	< 1	< 10	180 J	1,690 J
	05/19/99	< 100	NA	NA	NA	NA	NA	107,000	NA	NA	< 10	NA	< 100	NA	240,000	< 10	NA	NA	< 5,000	NA	NA	203,000	NA	NA	NA	1,900
	02/19/99	< 100	NA	NA	NA	NA	NA	101,000	NA	NA	< 10	NA	< 100	NA	234,000	< 10	NA	NA	< 5,000	NA	NA	193,000	NA	NA	NA	1,800
	11/18/98	< 100	NA	NA	NA	NA	NA	96,900	NA	NA	< 10	NA	< 100	NA	237,000	< 10	NA	NA	< 5,000	NA	NA	190,000	NA	NA	NA	1,640
	08/18/98	< 100	NA	NA	NA	NA	NA	102,000	NA	NA	11.8	NA	< 100	NA	248,000	< 10	NA	NA	< 5,000	NA	NA	197,000	NA	NA	NA	1,900
	04/16/98	< 100	NA	NA	NA	NA	NA	100,000	NA	NA	28.4	< 10 (U16)	< 100	NA	222,000	< 10	NA	NA	< 5,000	NA	NA	200,000	NA	NA	NA	1,980
	01/22/98	< 100	NA	NA	NA	NA	NA	94,900	NA	NA	< 10	NA	< 100	NA	238,000	13.4	NA	NA	< 5,000	NA	NA	182,000	NA	NA	NA	1,830
	10/30/97	< 100	NA	NA	NA	NA	NA	97,000	NA	NA	< 20	NA	< 100	NA	237,000	24.2	NA	NA	< 5,000	NA	NA	178,000	NA	NA	NA	1,950
	07/31/97	< 100	NA	NA	NA	NA	NA	93,200	NA	NA	< 20	NA	< 100	NA	221,000	14.2	NA	NA	< 5,000	NA	NA	190,000	NA	NA	NA	1,650
	05/01/97	< 100	NA	NA	NA	NA	NA	110,000	NA	NA	< 10	NA	< 100	NA	263,000	29	NA	NA	3,040	NA	NA	191,000	NA	NA	NA	1,830
	02/10/97	< 100	NA	NA	NA	NA	NA	118,000	NA	NA	5.1	NA	< 100	NA	260,000	34	NA	NA	< 5,000	NA	NA	234,000	NA	NA	NA	2,090
1349MW02	03/10/06	< 100	< 1	< 5	230 J	< 2	1.1	80,000	**75**	< 10	1.2	NA	230 J	< 3	260,000	13	< 0.2	< 20	810 J	< 5	< 1	210,000	< 1	< 10	< 20	2,060
	08/31/05	< 100	< 1	< 5	210	< 2	< 1	75,000	**60**	< 10	1.1	NA	140	< 3	280,000	< 10	< 0.2	< 20	< 500	< 5	< 1	210,000	< 1	< 10	< 20	2,170
	05/25/05	< 100 UJ	< 1	< 5	250	< 2	< 1	95,000	**56**	< 10	< 1	NA	< 100	< 3	270,000	< 10	< 0.2	< 20	660	< 5	< 1	220,000	< 1	< 10	< 20	2,030
	03/21/05	< 100	< 1	< 5	310	< 2	< 1	130,000	**67**	< 10	3	NA	350	< 3	210,000	< 10	< 0.2	< 20	660	< 5	< 1	190,000	< 1	< 10	< 20	1,780
	12/16/04	< 100	< 1	< 5	160	< 2	< 1	52,000	**76**	< 10	< 1	NA	190	< 3	250,000	< 10	< 0.2	< 20	< 500	< 5	< 1	200,000	< 1	< 10	< 20	1,690
	08/12/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,620
	05/26/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,620
	03/15/04	< 100	< 1	< 5	230 J-	< 2	< 1	85,000	**83**	< 10	1.8	NA	190	< 3	270,000	< 10	< 0.2	< 20	< 500	< 5	< 1	230,000	< 1	< 10	< 20	1,600
	12/02/03	< 100	1.3	< 5	170	< 2	< 1	57,000	**75**	< 10	1.1	NA	220	< 3	270,000	< 10	< 0.2	< 20	< 500	< 5	< 1 UJ	200,000	< 1	< 10	< 20	1,160
	08/13/03	< 100	1.7	< 5	180	< 2	< 1	61,000	**87**	< 10	< 1	NA	300	< 3	230,000	< 10	< 0.2	< 20	< 500	< 5	< 1 UJ	190,000	< 1	< 10	< 20	1,540
	06/05/03	< 100	1.3	< 5	180	< 2	< 1	59,000	**80**	< 10	1.2	NA	150	< 3	250,000	< 10	0.26	< 20	530	< 5	< 1	210,000	< 1	< 10	< 20	1,440
DUP0605032A	06/05/03	< 100	1.3	< 5	180	< 2	< 1	65,000	**83**	< 10	< 1	NA	100	< 3	240,000	< 10	< 0.2	< 20	< 500	< 5	< 1	190,000	< 1	< 10	< 20	1,500
	12/04/02	< 100	< 1	< 1	160	< 1	< 1	53,000	**92**	< 1	< 1	**80**	160	< 3	220,000	< 10	< 0.2	6.3	< 500	< 5	< 1 UJ	180,000	< 1	< 10	< 10	1,600
DUP1204023A	12/04/02	< 100	< 1	< 1	160	< 1	< 1	52,000	**94**	< 1	1.1	**80**	160	< 3	220,000	< 10	< 0.2	6.6	< 500	< 5	< 1 UJ	180,000	< 1	< 10	< 10	1,400
	08/28/02	< 100	1.2	< 1	510	< 1	< 1	55,000	**82 J**	< 1	1.4	**90**	< 100	< 3	240,000	< 10	< 0.2	6.2	660	< 5	< 1 UJ	210,000	< 1	< 10	68	1,500
	05/30/02	< 100	< 1	< 1	460	< 1	< 1	61,000	**79**	< 1	1.4	**70 J-**	< 100	< 3	230,000	< 10	< 0.2	5.1	690	< 5	< 1 UJ	200,000	< 1	< 10	87	1,610

Table A-5-7
Results of Dissolved Metals Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium[2]	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method [1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Level [3]		**--**	**6**	**10**	**1,000**	**4**	**5**	**--**	**50**	**140**	**1,000**	**21**	**--**	**15**	**--**	**--**	**2**	**100**	**--**	**50**	**50**	**--**	**2**	**15**	**5,000**	**--**
1349MW02	03/06/02	< 100	< 1	< 1	340	< 1	< 1	90,000	**95**	< 1	< 1	**90**	310	< 3	270,000	< 10	< 0.2	7	580	< 5	< 1 UJ	240,000	< 1	< 10	< 10	1,610
DUP0306022A	03/06/02	< 100	< 1	< 1	390	< 1	< 1	96,000	**97**	< 1	< 1	**90 J-**	310	< 3	290,000	< 10	< 0.2	7.2	600	< 5	< 1 UJ	260,000	< 1	< 10	16	1,580
	11/28/01	< 100	< 1	1.2	760	< 1	< 1	51,000	**130 J**	< 1	2.7	**100**	< 100	< 3	260,000	< 10	< 0.2	8.2	1,100	5.1	< 1	220,000	< 1	< 10	190	1,510
DUP1128011A	11/28/01	< 100	< 1	1	350	< 1	< 1	52,000	**130 J**	< 1	2.1	**100 J**	< 100	< 3	260,000	< 10	< 0.2	8.4	900	< 5	< 1	220,000	< 1	< 10	30	1,470
	08/30/01	< 100	< 1	< 1	150 J+	< 1	< 1	45,000	**110**	< 1	1.8	< 10	150	< 3	250,000	< 10	< 0.2	6.9	< 500	< 5	< 1 UJ	210,000	< 1	< 10	< 10	1,550
DUP0830012A	08/30/01	< 100	< 1	< 1	160 J+	< 1	< 1	47,000	**100**	< 1	1.9	< 10	150	< 3	260,000	< 10	< 0.2	6.6	<500	< 5	< 1 UJ	210,000	< 1	< 10	15	1,470
1349MW02CL	08/30/01	< 200	1.2 J	< 2	800	< 1	< 1	47,000	**110**	0.92 J	1.7 J	**90**	< 200	< 5	230,000	< 5	< 0.2	8.3	<1,000	7.9	< 1	280,000	< 1	< 5	170	1,900
	05/10/01	< 100	< 1	1.1	560	< 1	< 1	49,000	**98 J**	< 1	4.2 J	**70 J**	390	<3	250,000	< 10	< 0.2	9.3 J	780	< 5	< 1 UJ	210,000	< 1	< 10	160 J	1,620 J
	05/19/99	< 100	NA	NA	NA	NA	NA	57,300	NA	NA	< 10	NA	< 100	NA	274,000	< 10	NA	NA	< 5,000	NA	NA	204,000	NA	NA	NA	1,900
	02/19/99	< 100	NA	NA	NA	NA	NA	63,500	NA	NA	< 10	NA	< 100	NA	284,000	< 10	NA	NA	< 5,000	NA	NA	215,000	NA	NA	NA	1,840
	11/18/98	< 100	NA	NA	NA	NA	NA	59,300	NA	NA	18.7	NA	< 100	NA	283,000	< 10	NA	NA	< 5,000	NA	NA	213,000	NA	NA	NA	1,770
	08/18/98	< 100	NA	NA	NA	NA	NA	57,800	NA	NA	< 10	NA	< 100	NA	267,000	< 10	NA	NA	< 5,000	NA	NA	211,000	NA	NA	NA	1,900
	04/16/98	< 100	NA	NA	NA	NA	NA	53,500	NA	NA	< 10	**43 (J16)**	< 100	NA	233,000	< 10	NA	NA	< 5,000	NA	NA	195,000	NA	NA	NA	1,760
	01/22/98	< 100	NA	NA	NA	NA	NA	50,800	NA	NA	< 10	NA	< 100	NA	244,000	< 10	NA	NA	< 5,000	NA	NA	196,000	NA	NA	NA	1,750
	10/30/97	< 100	NA	NA	NA	NA	NA	52,300	NA	NA	< 20	NA	< 100	NA	244,000	< 10	NA	NA	< 5,000	NA	NA	199,000	NA	NA	NA	1,750
	07/31/97	< 100	NA	NA	NA	NA	NA	51,300	NA	NA	< 20	NA	< 100	NA	249,000	< 10	NA	NA	< 5,000	NA	NA	205,000	NA	NA	NA	1,810
	05/01/97	< 100	NA	NA	NA	NA	NA	53,900	NA	NA	< 10	NA	< 100	NA	266,000	< 10	NA	NA	< 1,000	NA	NA	188,000	NA	NA	NA	1,700
	02/10/97	< 100	NA	NA	NA	NA	NA	39,600	NA	NA	2.5	NA	< 100	NA	176,000	19.7	NA	NA	< 5,000	NA	NA	145,000	NA	NA	NA	1,490
1349MW03R	03/16/06	< 100	< 1	< 5	81	< 2	< 1	52,000	**120**	< 10	< 1	NA	< 100	< 3	220,000 J	< 10	< 0.2	< 20	1,300 J-	< 5	< 1	280,000	< 1	< 10	< 20	2,060
	11/30/05	< 100	< 1	< 5	23	< 2	< 1	23,000	**100 J**	< 10	< 1	NA	100	< 3	110,000	< 10	< 0.2	< 20	660	< 5	< 1	79,000	< 1	< 10	< 20	750
	08/31/05	< 100	< 1	< 5	19	< 2	< 1	29,000	**100**	< 10	< 1	NA	< 100	< 3	110,000	< 10	< 0.2	< 20	870	< 5	< 1	85,000	< 1	< 10	< 20	710
	05/25/05	< 100 UJ	< 1	< 5	41 J	< 2	< 1	46,000	**130**	< 10	< 1	NA	< 100	< 3	190,000	< 10	< 0.2	< 20	1,700	< 5	< 1	190,000	< 1	< 10	< 20	1,460
	03/21/05	< 100	< 1	< 5	90	< 2	< 1	70,000	**190**	< 10	1.3	NA	180	< 3	230,000	< 10	< 0.2	< 20	4,100	< 5	< 1	300,000	< 1	< 10	< 20	1,980
	12/16/04	< 100	< 1	< 5	< 10	< 2	< 1	19,000	**68**	< 10	< 1	NA	< 100	< 3	78,000	< 10	< 0.2	< 20	2,200	< 5	< 1	57,000	< 1	< 10	< 20	530
	08/10/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	540
	05/26/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	580
	03/09/04	< 100	< 1	< 5	< 10	< 2	< 1	23,000	**94**	< 10	< 1	NA	< 100	< 3	84,000	< 10	< 0.2	< 20	3,000 J	< 5	< 1 UJ	67,000	< 1	< 10	< 20	550
	12/02/03	< 100	1.9	5.4	< 10	< 2	< 1	18,000	42	< 10	< 1	NA	< 100	< 3	68,000	< 10	< 0.2	< 20	4,400	< 5	< 1 UJ	56,000	< 1	< 10	< 20	360
	08/13/03	< 100	3.3	7.4	< 10	< 2	< 1	24,000	**59**	< 10	< 1	NA	120	< 3	70,000	< 10	< 0.2	< 20	6,100	< 5	< 1 UJ	63,000	< 1	< 10	< 20	510
	06/09/03	< 100	1.4	6.2	< 10	< 2	< 1	30,000	44	< 10	< 1	NA	< 100	< 3	60,000	< 10	< 0.2	< 20	9,700	< 5	< 1 UJ	100,000	< 1	< 10	< 20	690
1349MW100	05/24/06	< 100	< 1	**13**	380	< 2	< 1	150,000	< 10	< 10	< 1	NA	33,000	< 3	200,000	14,000	< 0.2	< 20	3,800	< 5	< 1	460,000	< 1	< 10	< 20	2,550
DUP0524063A	05/24/06	< 100	< 1	**12**	380	< 2	< 1	140,000	< 10	< 10	< 1	NA	34,000	< 3	200,000	14,000	< 0.2	< 20	3,500	< 5	< 1	450,000	< 1	< 10	< 20	2,460
1349MW100CL	05/24/06	< 100 U	< 2 U	**15**	425	< 10 U	< 1 U	165,000	< 10 U	5.1	4.3	NA	36,500 J+	< 1 U	226,000	14,800	< 0.2 U	15	< 5,000 U	< 2 U	< 1 U	502,000	< 1 U	< 10 U	< 20 U	2,110
	03/16/06	< 100	< 1	9.4	450	< 2	< 1	130,000	< 10	< 10	< 1	NA	27,000	< 3	180,000 J	14,000	< 0.2	< 20	2,700 J-	10	< 1	400,000	< 1	< 10	< 20	510
	11/30/05	< 100	< 1	9.6	840	< 2	< 1	200,000	< 10 UJ	< 10	1	NA	52,000	< 3	290,000	20,000	< 0.2	< 20	2,400	< 5	< 1	400,000	< 1	< 10	21	5,570
	08/31/05	< 100	< 1	< 5	**1,200**	< 2	< 1	260,000	< 10	< 10	1.1	NA	63,000	< 3	390,000	26,000	< 0.2	< 20	2,700 J	< 5	< 1	470,000	< 1	< 10	31	3,890
	05/25/05	< 100 UJ	< 1	**11**	490	< 2	< 1	170,000	< 10	< 10	< 1	NA	33,000	< 3	210,000	16,000	< 0.2	< 20	3,100	< 5	< 1	440,000	< 1	< 10	< 20	2,260
	03/23/05	< 100	< 1	8	510	< 2	< 1	140,000	< 10	< 10	1.1	NA	31,000	< 3	200,000	13,000	< 0.2	< 20	2,700	< 5	< 1	390,000	< 1	< 10	< 20	2,350
	12/16/04	< 100	< 1	**20**	530	< 2	< 1	190,000	< 10	< 10	1.8	NA	39,000	< 3	280,000	18,000	< 0.2	< 20	3,300	< 5	< 1	390,000	< 1	< 10	< 20	2,870
	08/10/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,450
	05/26/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,490
	03/16/04	< 100	1.8	**11**	600 J-	< 2	< 1	150,000	< 10	< 10	1.3	NA	30,000	< 3	210,000	16,000	< 0.2	< 20	2,800	< 5	< 1	440,000	< 1	< 10	< 20	2,050
	12/02/03	< 100	2.6	**23**	530	< 2	< 1	170,000	16	< 10	1.3	NA	36,000	< 3	290,000	15,000	< 0.2	< 20	3,900	< 5	< 1 UJ	380,000	< 1	< 10	< 20	1,820
	08/12/03	< 100	< 1	**15 J+**	700	< 2	< 1	160,000	15 J	< 10	< 1	NA	21,000	< 3	250,000	160	< 0.2	< 20	3,400	< 5	< 1 UJ	350,000	< 1	< 10	< 20 UJ	2,450
	06/09/03	< 100	1.9	**14**	520	< 2	< 1	130,000	10	< 10	< 1	NA	25,000	< 3	190,000	14,000	< 0.2	< 20	2,900	< 5	< 1 UJ	370,000	< 1	< 10	< 20	2,200
	03/12/03	< 100	< 1	7.9	680	< 1	< 1	140,000	7.2	8.9	< 1	< 10	13,000	< 3	190,000	14,000	< 0.2	15	2,600	< 5	< 1 UJ	330,000 J-	< 1	< 10	< 10	2,100
	12/10/02	< 100	< 1	5.9	300	< 1	< 1	190,000	12	33	1.3	< 10	4,600	< 3	290,000	6,600 J	< 0.2	28	7,600	< 5	< 1 UJ	300,000	< 1	< 10	< 10	2,480

Table A-5-7
Results of Dissolved Metals Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium[2]	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method [1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Level [3]		**--**	**6**	**10**	**1,000**	**4**	**5**	**--**	**50**	**140**	**1,000**	**21**	**--**	**15**	**--**	**--**	**2**	**100**	**--**	**50**	**50**	**--**	**2**	**15**	**5,000**	**--**
1349MW101	03/16/06	< 100	< 1	< 5	< 10	< 2	< 1	15,000	41	< 10	< 1	NA	< 100	< 3	58,000 J	< 10	< 0.2	< 20	1,700 J-	< 5	< 1	94,000	< 1	< 10	< 20	750
	08/31/05	< 100	< 1	< 5	< 10	< 2	< 1	16,000	25	< 10	< 1	NA	< 100	< 3	62,000	< 10	< 0.2	< 20	2,200	< 5	< 1	100,000	< 1	< 10	< 20	660
	05/25/05	< 100 UJ	< 1	5.5	< 10 UJ	< 2	< 1	19,000	25	< 10	< 1	NA	< 100	< 3	73,000	< 10	< 0.2	< 20	3,100	< 5	< 1	130,000	< 1	< 10	< 20	650
DUP0525052A	05/25/05	< 100 UJ	< 1	5.5	< 10 UJ	< 2	< 1	19,000	25	< 10	< 1	NA	< 100	< 3	72,000	< 10	< 0.2	< 20	3,000	< 5	< 1	120,000	< 1	< 10	< 20	560
	03/21/05	< 100	< 1	5.7	< 10	< 2	< 1	19,000	33	< 10	1	NA	< 100	< 3	57,000	< 10	< 0.2	< 20	3,000	< 5	< 1	97,000	< 1	< 10	< 20	430
	12/15/04	< 100	< 1	5.1	< 10	< 2	< 1	19,000 J	24	< 10	< 1	NA	< 100	< 3	45,000	< 10	< 0.2	< 20	3,400	< 5	< 1	66,000	< 1 UJ	< 10	< 20	550
	03/09/04	< 100	1.3	5.2	< 10	< 2	< 1	23,000	45	< 10	< 1	NA	< 100	< 3	61,000	< 10	< 0.2	< 20	4,300 J	< 5	< 1 UJ	99,000	< 1	< 10	< 20	590
	12/02/03	< 100	1.8	< 5	< 10	< 2	< 1	20,000	15	< 10	< 1	NA	< 100	< 3	54,000	24	< 0.2	< 20	6,300	< 5	< 1 UJ	120,000	< 1	< 10	< 20	390
	08/19/03	< 100	< 1	5.9	< 10	< 2	< 1	29,000	15	< 10	< 1	NA	120	< 3	57,000	19	< 0.2	< 20	7,500	< 5	< 1 UJ	150,000	< 1	< 10	< 20 UJ	660
	06/09/03	< 100	< 1	6.1	< 10	< 2	< 1	36,000	34	< 10	< 1	NA	< 100	< 3	56,000	< 10	< 0.2	< 20	9,800	< 5	< 1 UJ	160,000	< 1	< 10	< 20	890
1349MW102	03/07/06	< 100	< 1	< 5	49	< 2	< 1	42,000 J	< 10	< 10	< 1	NA	190	< 3	98,000	140	NA	< 20	2,700	< 5	< 1	190,000	< 1	< 10	< 20	1,070
DUP0307063C	03/07/06	260	< 1	< 5	52	< 2	< 1	41,000 J	< 10	< 10	1.8	NA	530	< 3	96,000	150	NA	< 20	2,800	< 5	< 1	180,000	< 1	< 10	< 20	1,000
1349MW102CL	03/07/06	< 100 U	< 2 U	< 2 U	57	< 1 U	< 1 U	52,000	< 10 U	< 1 U	2.7	NA	< 100 U	< 1 U	110,000	160	< 0.2 U	5.4	< 5000 U	2.3	< 1 U	230,000	< 1 U	< 10 U	< 20 U	1,070 J+
	08/31/05	< 100	< 1	< 5	31	< 2	< 1	38,000	< 10	< 10	< 1	NA	< 100	< 3	57,000	< 10	< 0.2	< 20	2,800	< 5	< 1	150,000	< 1	< 10	< 20	850
DUP0831052A	08/31/05	< 100	< 1	< 5	30	< 2	< 1	39,000	< 10	< 10	< 1	NA	< 100	< 3	56,000	10	< 0.2	< 20	2,800	< 5	< 1	150,000	< 1	< 10	< 20	820
	05/25/05	< 100 UJ	< 1	< 5	25 J	< 2	< 1	43,000	< 10	< 10	< 1	NA	< 100	< 3	59,000	< 10	< 0.2	< 20	3,600	< 5	< 1	190,000	< 1	< 10	28	680
	03/21/05	< 100	< 1	< 5	55	< 2	< 1	62,000	< 10	< 10	< 1	NA	170	< 3	93,000	62	< 0.2	< 20	4,400	< 5	< 1	140,000	< 1	< 10	< 20	970
DUP0321053A	03/21/05	< 100	< 1	< 5	49	< 2	< 1	62,000	< 10	< 10	4.8	NA	170	< 3	83,000	48	< 0.2	< 20	4,300	< 5	< 1	150,000	< 1	< 10	< 20	1,040
	12/16/04	< 100	< 1	< 5	74	< 2	< 1	74,000	< 10	< 10	< 1	NA	210	< 3	160,000	410	< 0.2	< 20	3,700	< 5	< 1	180,000	< 1	< 10	< 20	1,280
	08/10/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,160
DUP0810042A	08/10/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,260
	05/26/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,270
DUP0527041A	05/26/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,220
1349MW102CL	05/26/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,100
	03/10/04	< 100	< 1	< 5	83	< 2	< 1	73,000	< 10	< 10	< 1	NA	290	< 3	160,000	430	< 0.2	< 20	3,400	< 5	< 1 UJ	160,000	< 1	< 10	< 20	1,150
DUP0310041A	03/10/04	< 100	< 1	< 5	81	< 2	< 1	77,000	< 10	< 10	< 1	NA	260	< 3	160,000	400	< 0.2	< 20	3,300	< 5	< 1 UJ	170,000	< 1	< 10	< 20	1,280
1349MW102CL	03/10/04	< 100	< 5	5.6	77	< 1	< 1	76,000	< 10	< 7	< 10	NA	640	< 3	170,000	420	< 0.2	< 10	3,600	< 5	< 1	170,000	< 2	< 10	< 20	1,100 QB01
	12/10/03	< 100	< 1	< 5	69	< 2	< 1	77,000	< 10	< 10	< 1	NA	420	< 3	160,000	550	< 0.2	< 20	3,800	< 5 R	< 1	160,000	< 1	< 10	< 20 UJ	1,260
DUP1210031A	12/10/03	< 100	1.8	< 5	72	< 2	< 1	80,000	< 10	< 10	1	NA	460	< 3	170,000	600	< 0.2	< 20	4,000	< 5 R	< 1	170,000	< 1	< 10	< 20 UJ	1,090
	08/12/03	< 100	2.7	< 5 UJ	34	< 2	< 1	100,000	< 10 UJ	< 10	< 1	NA	390	< 3	180,000	550	< 0.2	< 20	6,400	< 5	< 1 UJ	190,000	< 1	< 10	< 20 UJ	1,430
	06/09/03	< 100	< 1	< 5	31	< 2	< 1	100,000	< 10	< 10	< 1	NA	210	< 3	190,000	440	< 0.2	< 20	9,800	< 5	< 1 UJ	230,000	< 1	< 10	< 20	1,620
DUP0609032A	06/09/03	< 100	2.9	< 5	32	< 2	< 1	98,000	< 10	< 10	< 1	NA	260	< 3	200,000	450	< 0.2	< 20	9,600	< 5	< 1 UJ	220,000	< 1	< 10	< 20	1,630
1349MW102CL	06/09/03	< 100	< 5	7.3	31	< 1	< 1	110,000	< 5	1.4	< 5	NA	530	< 3	180,000	340	< 0.2	7.4	11,000	< 5	< 1	240,000	< 2	< 10	23	1,900 HT-RA,J-
1349MW103	03/09/06	< 100	< 1	< 5	26 J	< 2	< 1	74,000	< 10	< 10	< 1	NA	270 J	< 3	330,000	310	< 0.2	< 400	5,400 J	< 5	< 1	200,000	< 1	< 10	< 20	2,220
	03/23/05	< 100	< 1	< 5	21	< 2	< 1	75,000	< 10	< 10	< 1	NA	390	< 3	290,000	380	0.31	**150**	5,600	< 5	< 1	180,000	< 1	< 10	< 20	1,320
	03/15/04	< 100	< 1	< 5	11 J-	< 2	< 1	88,000	< 10	< 10	1.2	NA	210	< 3	320,000	280	< 0.2	**180**	6,800	< 5	< 1	200,000	< 1	< 10	< 20	1,650
	12/03/03	< 100	< 1	< 5	< 10	< 2	< 1	75,000	< 10	< 10	1	NA	360	< 3	250,000	260	< 0.2	**110**	7,800	< 5	< 1 UJ	190,000	< 1	< 10	< 20	1,450
DUP1203032A	12/03/03	< 100	3.6	< 5	< 10	< 2	< 1	74,000	< 10	< 10	< 1	NA	370	< 3	250,000	250	< 0.2	**100**	7,500	< 5	< 1 UJ	190,000	< 1	< 10	< 20	1,440
	08/12/03	< 100	2.2	< 5 UJ	< 10	< 2	< 1	72,000	< 10 UJ	< 10	< 1	NA	270	< 3	240,000	190	< 0.2	**100**	8,400	< 5	< 1 UJ	190,000	< 1	< 10	< 20 UJ	1,590
	06/05/03	< 100	3	< 5	17	< 2	< 1	72,000	< 10	< 10	1	NA	170	< 3	190,000	160	< 0.2	42	13,000	< 5	< 1	190,000	< 1	< 10	< 20	1,520
1349MW104	03/09/06	< 100	< 1	< 5	100 J	< 2	< 1	75,000	25	< 10	< 1	NA	180 J	< 3	290,000	130	< 0.2	< 20	2 700 J	< 5	< 1	240,000	< 1	< 10	< 20	2,090
	03/23/05	< 100	< 1	< 5	78	< 2	< 1	75,000	< 10	< 10	< 1	NA	410	< 3	260,000	300	< 0.2	< 20	2500	< 5	< 1	230,000	< 1	< 10	< 20	2,200
	03/15/04	< 100	< 1	< 5	49 J-	< 2	< 1	82,000	40	< 10	1.5	NA	190	< 3	320,000	56	< 0.2	< 20	4,200	< 5	< 1	280,000	< 1	< 10	< 20	1,800
	12/02/03	< 100	2.2	5.8	38	< 2	< 1	65,000	49	< 10	1.4	NA	280	< 3	280,000	80	< 0.2	< 20	4,800	< 5	< 1 UJ	240,000	< 1	< 10	< 20	780
	08/12/03	< 100	2.3	6 J+	35	< 2	< 1	73,000	12 J	< 10	< 1	NA	360	< 3	260,000	530	< 0.2	< 20	5,800	< 5	< 1 UJ	240,000	< 1	< 10	< 20 UJ	1,000
	06/06/03	< 100	1.5	< 5	50	< 2	< 1	76,000	< 10	< 10	< 1	NA	190	< 3	260,000	970	< 0.2	32	8,300	< 5	< 1	270,000	< 1	< 10	< 20	1,870

Table A-5-7
Results of Dissolved Metals Analyses
Building 1349 Area
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium[2]	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method [1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Level [3]		**--**	**6**	**10**	**1,000**	**4**	**5**	**--**	**50**	**140**	**1,000**	**21**	**--**	**15**	**--**	**--**	**2**	**100**	**--**	**50**	**50**	**--**	**2**	**15**	**5,000**	**--**
1349MW105	03/20/06	< 100	1.4	10	47	< 2	< 1	56,000	< 10	< 10	< 1	NA	130	< 3	140,000	210	< 0.2	< 20	9,100	< 5	< 1	110,000	< 1	< 10	< 20	960
	03/23/05	< 100	1.5	**11**	39	< 2	< 1	71,000	< 10	< 10	3.2	NA	420	< 3	160,000	210	< 0.2	< 20	8,900	< 5	< 1	120,000	< 1	< 10	< 20	1,410
	03/15/04	< 100	1.5	**12**	47 J-	< 2	< 1	86,000	< 10	< 10	1.1	NA	360	< 3	180,000	310	< 0.2	< 20	11,000	< 5	< 1	150,000	< 1	< 10	< 20	1,260
	12/02/03	< 100	1.7	**10**	36	< 2	< 1	75,000	11	< 10	< 1	NA	600	< 3	160,000	340	< 0.2	< 20	13,000	< 5	< 1 UJ	140,000	< 1	< 10	< 20	850
	08/12/03	< 100	2.5	**12 J+**	54	< 2	< 1	79,000	< 10 UJ	< 10	< 1	NA	590	< 3	150,000	380	< 0.2	< 20	15,000	< 5	< 1 UJ	160,000	< 1	< 10	< 20 UJ	920
	06/09/03	< 100	4.5	**10**	41	< 2	< 1	82,000	< 10	< 10	< 1	NA	440	< 3	180,000	350	< 0.2	< 20	16,000	< 5	< 1 UJ	200,000	< 1	< 10	< 20	1,480

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Results of Army and Trust studies support the hypothesis that dissolved chromium and hexavalent chromium measured in groundwater in upland areas of the Presidio appear to be naturally occurring and derived from serpentinite.
Hexavalent chromium was not retained as a COC in the Draft CAP (BBL, 2005).
3 - Groundwater cleanup levels were taken from the Draft Corrective Action Plan Building 1349 Study Area, Presidio of San Francisco, California (BBL, 2005).
Groundwater samples collected from all site monitoring wells were field filtered and analyzed for dissolved metals.
-- cleanup level not established
µg/L - micrograms per liter
mg/L - milligrams per liter
NA - Not analyzed
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

A-5-8
Groundwater Elevation Summary
Building 1349 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1349MW01	05/22/06	21.54	300.44	278.90	MW
	03/06/06	23.25	300.44	277.19	MW
	11/28/05	26.34	300.44	274.10	MW
	08/29/05	24.94	300.44	275.50	MW
	05/23/05	24.47	300.44	275.97	MW
	03/14/05	25.16	300.44	275.28	MW
	12/13/04	29.14	300.44	271.30	MW
	08/09/04	28.88	300.44	271.56	MW
	05/24/04	27.78	300.44	272.66	MW
	03/08/04	26.84	300.44	273.60	MW
	12/01/03	29.38	300.44	271.06	MW
	08/11/03	27.91	300.44	272.53	MW
	06/02/03	28.33	300.44	272.11	MW
	03/10/03	28.19	300.44	272.25	MW
	12/02/02	29.61	300.44	270.83	MW
	08/26/02	28.69	300.44	271.75	MW
	05/28/02	28.38	300.44	272.06	MW
	03/04/02	27.70	300.44	272.74	MW
	11/26/01	29.76	300.44	270.68	MW
	08/27/01	30.17	300.44	270.27	MW
	05/08/01	29.45	300.44	270.99	MW
1349MW02	05/22/06	23.43	311.22	287.79	MW
	03/06/06	27.87	311.22	283.35	MW
	11/28/05	33.35	311.22	277.87	MW
	08/29/05	32.03	311.22	279.19	MW
	05/23/05	30.25	311.22	280.97	MW
	03/14/05	32.08	311.22	279.14	MW
	12/13/04	36.85	311.22	274.37	MW
	08/09/04	35.38	311.22	275.84	MW
	05/24/04	34.20	311.22	277.02	MW
	03/08/04	34.14	311.22	277.08	MW
	12/01/03	36.66	311.22	274.56	MW
	08/11/03	35.46	311.22	275.76	MW
	06/02/03	35.03	311.22	276.19	MW
	03/10/03	35.46	311.22	275.76	MW
	12/02/02	36.98	311.22	274.24	MW
	08/26/02	35.94	311.22	275.28	MW
	05/28/02	34.95	311.22	276.27	MW
	03/04/02	35.54	311.22	275.68	MW
	11/26/01	37.75	311.22	273.47	MW
	08/27/01	36.79	311.22	274.43	MW
	05/08/01	35.47	311.22	275.75	MW
1349MW03	08/26/02	28.63	300.54	271.91	MW
	05/28/02	26.64	300.54	273.90	MW
	03/04/02	25.20	300.54	275.34	MW
	11/26/01	30.67	300.54	269.87	MW
	08/27/01	29.65	300.54	270.89	MW
	05/08/01	26.56	300.54	273.98	MW
1349MW03R	05/22/06	20.40	304.13	283.73	MW
	03/06/06	22.56	304.13	281.57	MW
	11/28/05	29.81	304.13	274.32	MW
	08/29/05	28.52	304.13	275.61	MW
	05/23/05	25.29	304.13	278.84	MW

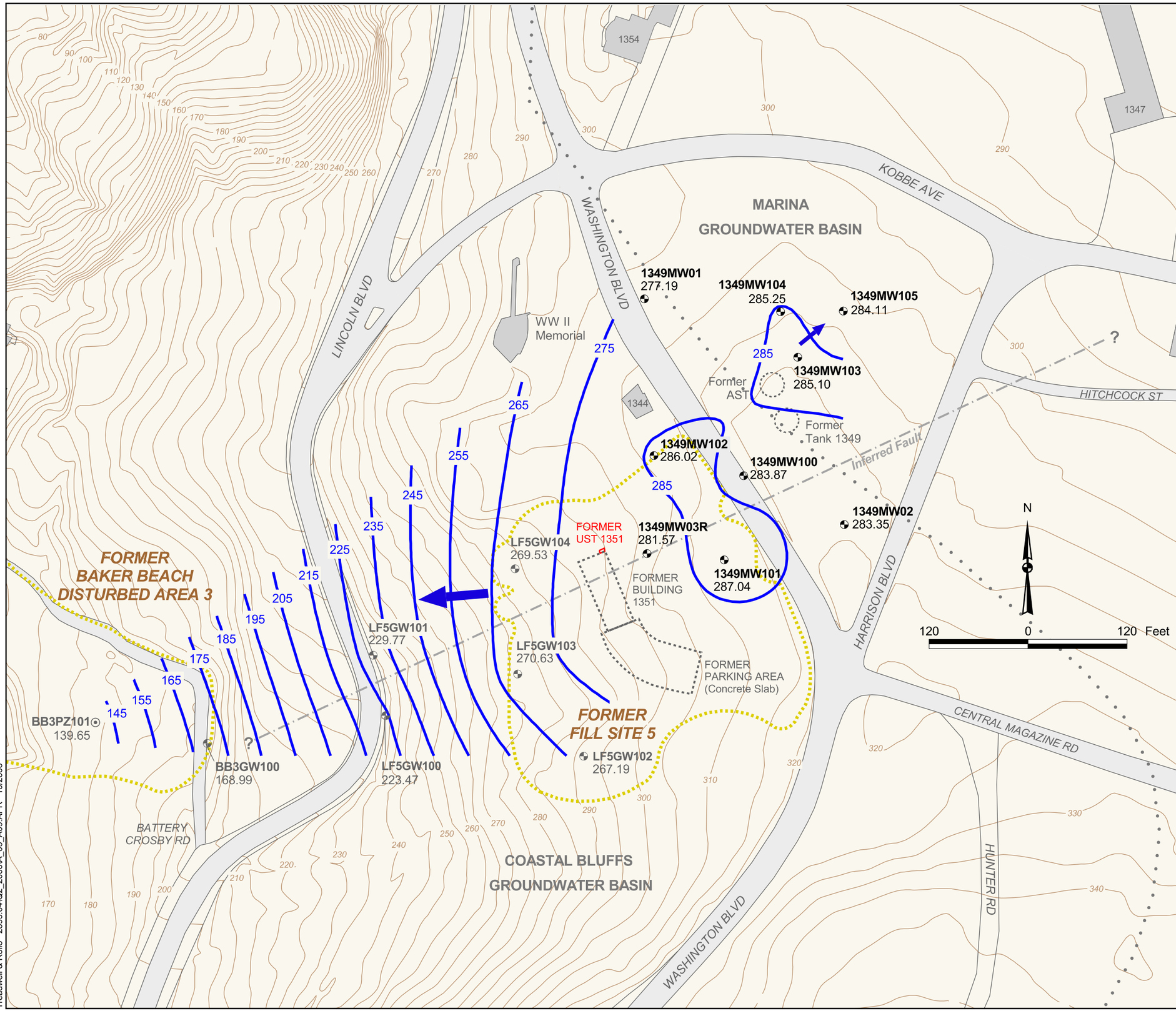
A-5-8
Groundwater Elevation Summary
Building 1349 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1349MW03R	03/14/05	23.29	304.13	280.84	MW
	12/13/04	32.69	304.13	271.44	MW
	08/09/04	30.88	304.13	273.25	MW
	05/24/04	29.40	304.13	274.73	MW
	03/08/04	28.43	304.13	275.70	MW
	12/01/03	33.33	304.13	270.80	MW
	08/11/03	31.69	304.13	272.44	MW
	06/02/03	30.48	304.13	273.65	MW
1349MW100	05/22/06	22.79	309.60	286.81	MW
	03/06/06	25.73	309.60	283.87	MW
	11/28/05	31.42	309.60	278.18	MW
	08/29/05	30.12	309.60	279.48	MW
	05/23/05	28.03	309.60	281.57	MW
	03/14/05	29.70	309.60	279.90	MW
	12/13/04	34.85	309.60	274.75	MW
	08/09/03	33.11	309.60	276.49	MW
	05/24/04	32.05	309.60	277.55	MW
	03/08/04	31.63	309.60	277.97	MW
	12/01/03	34.42	309.60	275.18	MW
	08/11/03	32.98	309.60	276.62	MW
	06/02/03	32.75	309.60	276.85	MW
	03/10/03	33.30	309.60	276.30	MW
	12/02/02	34.67	309.60	274.93	MW
1349MW101	05/22/06	19.51	311.63	292.12	MW
	03/06/06	24.59	311.63	287.04	MW
	11/28/05	31.66	311.63	279.97	MW
	08/29/05	30.78	311.63	280.85	MW
	05/23/05	28.65	311.63	282.98	MW
	03/14/05	23.87	311.63	287.76	MW
	12/13/04	33.44	311.63	278.19	MW
	08/09/04	32.10	311.63	279.53	MW
	05/24/04	32.23	311.63	279.40	MW
	03/08/04	32.90	311.63	278.73	MW
	12/01/03	35.25	311.63	276.38	MW
	08/11/03	34.14	311.63	277.49	MW
	06/02/03	33.59	311.63	278.04	MW
1349MW102	05/22/06	15.12	305.68	290.56	MW
	03/06/06	19.66	305.68	286.02	MW
	11/28/05	25.02	305.68	280.66	MW
	08/29/05	23.67	305.68	282.01	MW
	05/23/05	23.33	305.68	282.35	MW
	03/14/05	23.95	305.68	281.73	MW
	12/13/04	28.35	305.68	277.33	MW
	08/09/04	26.89	305.68	278.79	MW
	05/24/04	25.68	305.68	280.00	MW
	03/08/04	25.62	305.68	280.06	MW
	12/01/03	28.17	305.68	277.51	MW
	08/11/03	26.96	305.68	278.72	MW
	06/02/03	26.51	305.68	279.17	MW
1349MW103	05/22/06	30.57	318.07	287.50	MW
	03/06/06	32.97	318.07	285.10	MW
	11/28/05	37.30	318.07	280.77	MW

A-5-8
Groundwater Elevation Summary
Building 1349 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1349MW103	08/29/05	36.04	318.07	282.03	MW
	05/23/05	34.70	318.07	283.37	MW
	03/14/05	37.18	318.07	280.89	MW
	12/13/04	40.93	318.07	277.14	MW
	08/09/04	39.49	318.07	278.58	MW
	05/24/04	38.40	318.07	279.67	MW
	03/08/04	38.75	318.07	279.32	MW
	12/01/03	40.69	318.07	277.38	MW
	08/11/03	39.51	318.07	278.56	MW
	06/02/03	39.33	318.07	278.74	MW
1349MW104	05/22/06	24.50	314.58	290.08	MW
	03/06/06	29.33	314.58	285.25	MW
	11/28/05	34.07	314.58	280.51	MW
	08/29/05	32.83	314.58	281.75	MW
	05/23/05	31.42	314.58	283.16	MW
	03/14/05	33.73	314.58	280.85	MW
	12/13/04	37.65	314.58	276.93	MW
	08/09/04	36.23	314.58	278.35	MW
	05/24/04	35.18	314.58	279.40	MW
	03/08/04	35.76	314.58	278.82	MW
	12/01/03	37.43	314.58	277.15	MW
	08/11/03	36.27	314.58	278.31	MW
	06/02/03	35.96	314.58	278.62	MW
1349MW105	05/22/06	24.60	312.05	287.45	MW
	03/06/06	27.94	312.05	284.11	MW
	11/28/05	31.15	312.05	280.90	MW
	08/29/05	30.78	312.05	281.27	MW
	05/23/05	31.54	312.05	280.51	MW
	03/15/05	33.25	312.05	278.80	MW
	12/13/04	34.71	312.05	277.34	MW
	08/09/04	33.33	312.05	278.72	MW
	05/24/04	33.20	312.05	278.85	MW
	03/08/04	33.71	312.05	278.34	MW
	12/01/03	34.38	312.05	277.67	MW
	08/11/03	33.77	312.05	278.28	MW
	06/02/03	34.20	312.05	277.85	MW

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
MW - Monitoring well
feet PLLW - feet above Presidio lower low water vertical datum



LEGEND

1349MW103 285.10	Groundwater Monitoring Well March 2006 Groundwater Elevation
LF5GW101 229.77	Adjacent Study Area Well March 2006 Groundwater Elevation
BB3PZ101 139.65	Adjacent Study Area Piezometer March 2006 Groundwater Elevation
	Approximate Direction of Groundwater Flow
	Groundwater Elevation Contour (Contour Interval : 10 ft)
	Former Fill Site 5 and Baker Beach Disturbed Area 3 Excavation Boundaries
	Inferred Fault
	Groundwater Basin Boundary
	Topographic Contour (Contour Interval : 5 ft)
1354	Building and Number

Notes:
Groundwater elevation data collected on 6 March 2006.

AST - Above ground Storage Tank
UST - Underground Storage Tank

Location of inferred fault from Revised Feasibility Study Main Installation Sites (EKI, 2003).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

BUILDING 1349 SITE PLAN AND 6 MARCH 2006 GROUNDWATER ELEVATION MAP

Treadwell&Rollo

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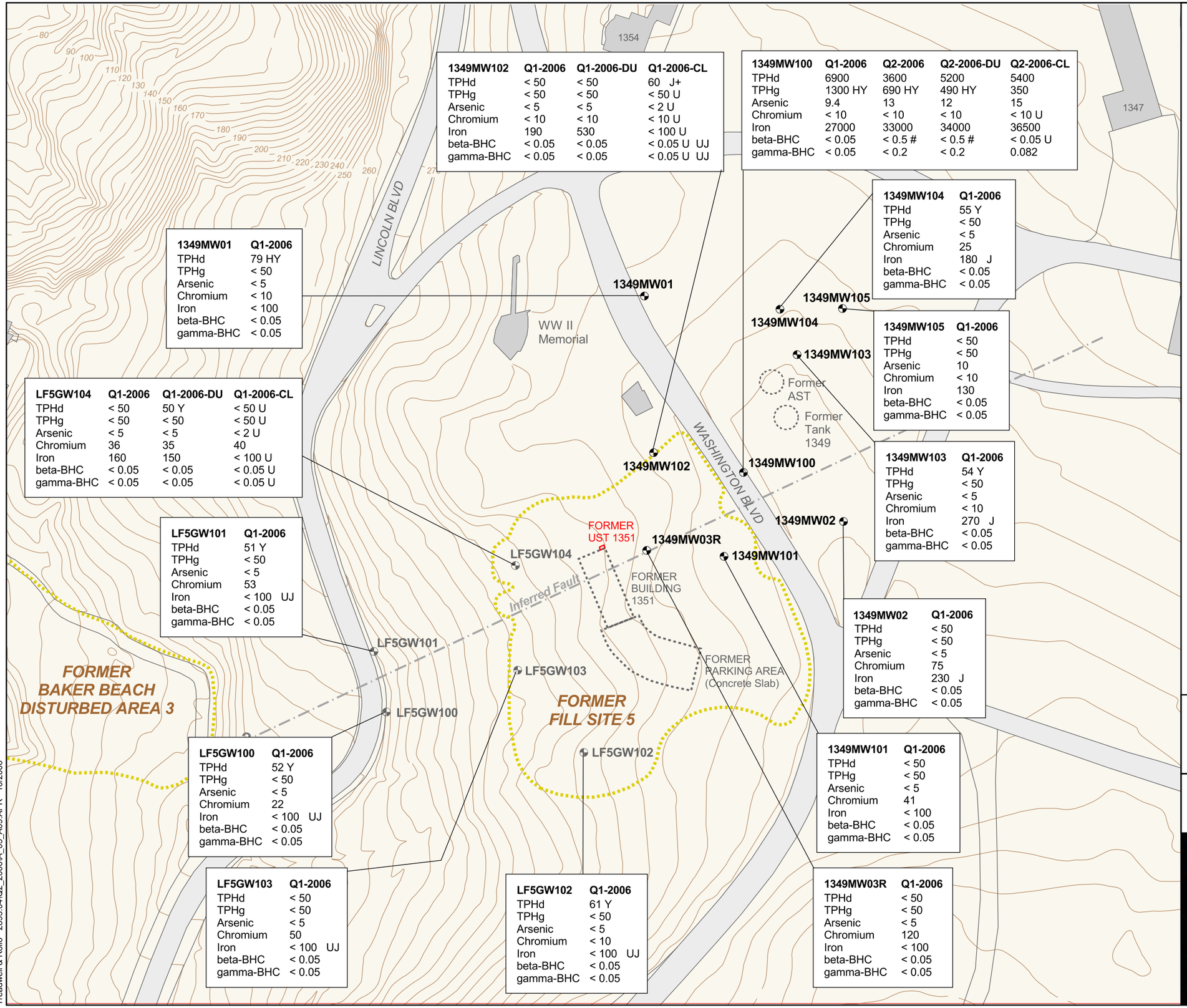
Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315
October 2006

FIGURE A-5-1

Treadwell & Rollo 2893.04\Q2_2006\A_05_A09.APR 10/2006



1349MW102	Q1-2006	Q1-2006-DU	Q1-2006-CL
TPHd	< 50	< 50	60 J+
TPHg	< 50	< 50	< 50 U
Arsenic	< 5	< 5	< 2 U
Chromium	< 10	< 10	< 10 U
Iron	190	530	< 100 U
beta-BHC	< 0.05	< 0.05	< 0.05 U UJ
gamma-BHC	< 0.05	< 0.05	< 0.05 U UJ

1349MW100	Q1-2006	Q2-2006	Q2-2006-DU	Q2-2006-CL
TPHd	6900	3600	5200	5400
TPHg	1300 HY	690 HY	490 HY	350
Arsenic	9.4	13	12	15
Chromium	< 10	< 10	< 10	< 10 U
Iron	27000	33000	34000	36500
beta-BHC	< 0.05	< 0.5 #	< 0.5 #	< 0.05 U
gamma-BHC	< 0.05	< 0.2	< 0.2	0.082

1349MW104	Q1-2006
TPHd	55 Y
TPHg	< 50
Arsenic	< 5
Chromium	25
Iron	180 J
beta-BHC	< 0.05
gamma-BHC	< 0.05

1349MW01	Q1-2006
TPHd	79 HY
TPHg	< 50
Arsenic	< 5
Chromium	< 10
Iron	< 100
beta-BHC	< 0.05
gamma-BHC	< 0.05

1349MW105	Q1-2006
TPHd	< 50
TPHg	< 50
Arsenic	10
Chromium	< 10
Iron	130
beta-BHC	< 0.05
gamma-BHC	< 0.05

LF5GW104	Q1-2006	Q1-2006-DU	Q1-2006-CL
TPHd	< 50	50 Y	< 50 U
TPHg	< 50	< 50	< 50 U
Arsenic	< 5	< 5	< 2 U
Chromium	36	35	40
Iron	160	150	< 100 U
beta-BHC	< 0.05	< 0.05	< 0.05 U
gamma-BHC	< 0.05	< 0.05	< 0.05 U

1349MW103	Q1-2006
TPHd	54 Y
TPHg	< 50
Arsenic	< 5
Chromium	< 10
Iron	270 J
beta-BHC	< 0.05
gamma-BHC	< 0.05

LF5GW101	Q1-2006
TPHd	51 Y
TPHg	< 50
Arsenic	< 5
Chromium	53
Iron	< 100 UJ
beta-BHC	< 0.05
gamma-BHC	< 0.05

1349MW02	Q1-2006
TPHd	< 50
TPHg	< 50
Arsenic	< 5
Chromium	75
Iron	230 J
beta-BHC	< 0.05
gamma-BHC	< 0.05

LF5GW100	Q1-2006
TPHd	52 Y
TPHg	< 50
Arsenic	< 5
Chromium	22
Iron	< 100 UJ
beta-BHC	< 0.05
gamma-BHC	< 0.05

1349MW101	Q1-2006
TPHd	< 50
TPHg	< 50
Arsenic	< 5
Chromium	41
Iron	< 100
beta-BHC	< 0.05
gamma-BHC	< 0.05

LF5GW103	Q1-2006
TPHd	< 50
TPHg	< 50
Arsenic	< 5
Chromium	50
Iron	< 100 UJ
beta-BHC	< 0.05
gamma-BHC	< 0.05

LF5GW102	Q1-2006
TPHd	61 Y
TPHg	< 50
Arsenic	< 5
Chromium	< 10
Iron	< 100 UJ
beta-BHC	< 0.05
gamma-BHC	< 0.05

1349MW03R	Q1-2006
TPHd	< 50
TPHg	< 50
Arsenic	< 5
Chromium	120
Iron	< 100
beta-BHC	< 0.05
gamma-BHC	< 0.05

N

120 0 120 Feet

LEGEND

- 1349MW103 Groundwater Monitoring Well
- LF5GW101 Adjacent Study Area Well
- Former Fill Site 5 Excavation Boundary
- Inferred Fault
- Topographic Contour (Contour Interval : 5 ft)
- 1354 Building and Number

Notes:
Monitoring well 1349MW100 was the only well scheduled to be sampled during the Second Quarters 2006 in accordance with the proposed plan.

Groundwater concentration data in micrograms per liter (µg/L).

TPHd - Total Petroleum Hydrocarbons as Gasoline
TPHg - Total Petroleum Hydrocarbons as Diesel
CL - Quality Control Duplicate
DU - Blind Duplicate

AST - Above ground Storage Tank
UST - Underground Storage Tank

Refer to Table 11 for data qualifiers.

Location of inferred fault from Revised Feasibility Study Main Installation Sites (EKI, 2003).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datum: (topography) North American Vertical Datum, NAVD88

BUILDING 1349
2006 CHEMICAL CONCENTRATION MAP

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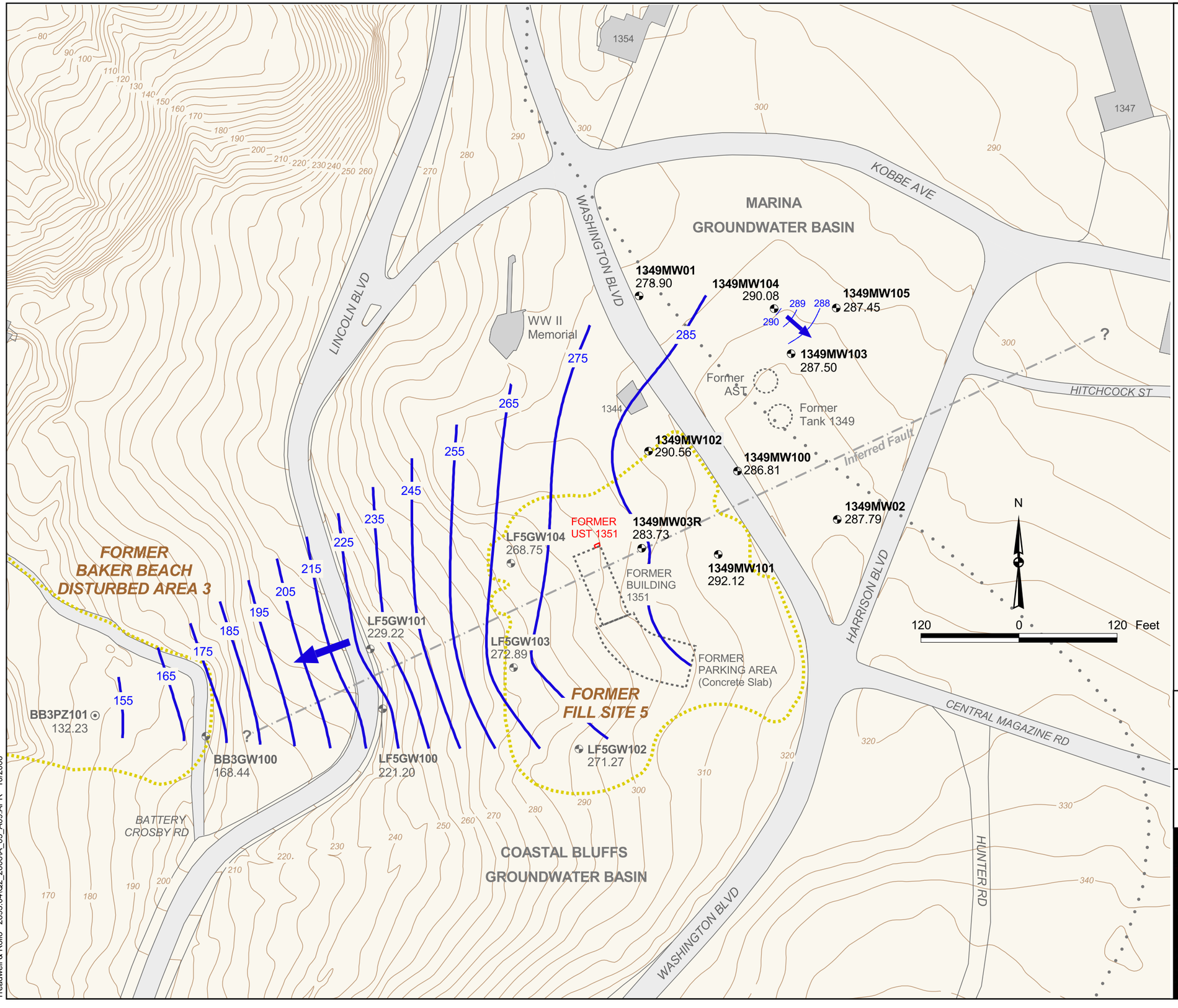
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315
October 2006

FIGURE A-5-3

Treadwell & Rollo 2893.04\Q2_2006\A_05_A09.APR 10/2006



LEGEND

1349MW103 287.50	Groundwater Monitoring Well May 2006 Groundwater Elevation
LF5GW101 229.22	Adjacent Study Area Well May 2006 Groundwater Elevation
BB3PZ101 132.23	Adjacent Study Area Piezometer May 2006 Groundwater Elevation
	Approximate Direction of Groundwater Flow
	Groundwater Elevation Contour (Contour Interval : 10 ft) (Contour Interval : 1 ft)
	Former Fill Site 5 and Baker Beach Disturbed Area 3 Excavation Boundaries
	Inferred Fault
	Groundwater Basin Boundary
	Topographic Contour (Contour Interval : 5 ft)
1354	Building and Number

Notes:
Groundwater elevation data collected on 22 May 2006.

AST - Above ground Storage Tank
UST - Underground Storage Tank

Location of inferred fault from Revised Feasibility Study Main Installation Sites (EKI, 2003).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

BUILDING 1349 SITE PLAN AND 22 MAY 2006 GROUNDWATER ELEVATION MAP

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34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315
October 2006

FIGURE A-5-2

Treadwell & Rollo 2893.04\Q2_2006\A_05_A09.APR 10/2006

First Quarter 2006

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1349 Landfills
Well No.: 1349 MW01
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: R. Cornish
Sampled by: D. Cornish
Date: 3/16/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC):

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type Disp.
[ ] Normal [ ] Pump \ Type
[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate
Purge Rate .5 gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI DO Meter / Orion ORP

Time	/ Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND µS (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1336	/ init	7.00	13.8	pre 0.43	3165	-	3	clear
1339	/ 1.5	6.46	13.9	-	3203	-	3	"
1342	/ 3.0	6.43	13.8	-	3269	-	9	"
1345	/ 4.5	6.41	13.8	-	3323	-	16	"
	/			post 0.54		post 186.5		
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/16/06 1352

Purging Equipment: Pump - Type: Bailer - Type: Disp. Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1349MW01	1x1L Poly NP	CET	2050	
	1x500ml HNO3 Poly			
	2x5x1L Amber NP			
	6x40ml HCl VOAs			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1349 | Well No.: 1349MW02

Project Number: 7893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeJong | Sampled by: John DeJong | Date: 3/10/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] ~~2-inch~~ [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 48.34

Depth to Water (WL, ft. below TOC): 27.06

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type DISP

[ ] Normal [ ] Pump \ Type

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[X] Other N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate ~.5gpm | gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI, ORION, Myron L, HACH

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
0901	Initial	7.33	12.3	ACC 0.76	1487	—	62	Clean
0904	1.5	7.26	13.1	—	1962	—	21	
0907	3.0	7.24	12.7	—	2781	—	7.1	
0910	4.5	7.29	13.1	—	3055	—	16	
0913	6	7.29	13.1	—	3129	—	20	
0916	7.5	7.29	13.2	DO: 0.56	3169	ORP: -18.1	18	

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/10/06, 0925

Purging Equipment: Pump - Type | ~~Bailer~~ - Type DISP | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
06 1349MW02	3L Poly	CTI	2031	
	3 HNO3			AS Metals
	15L Nalgene			
	18 Glass Vial			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1349 ~~Landfill~~ E
Well No.: 1349MW03R
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: P. Cornish
Sampled by: P. Cornish
Date: 3/16/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 37.95
Depth to Water (WL, ft. below TOC): 20.72
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged
[ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow
[ ] Normal
[X] Modified (max 5 gpm)
[X] Bailer \ Type Disp.
[ ] Pump \ Type
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate
Purge Rate .5gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI DO meter/Orion ORP

Time	/ Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND µS (~~mS/cm~~)	ORP (mV)	Turbidity (NTU)	Comments
1430	/ init	7.69	15.5	pre 2.20	3679	–	9	clear
1433	/ 1.5	7.74	15.5	–	3848	–	173	"
1436	/ 3.0	7.65	15.6	–	4383	–	143	"
1439	/ 4.5	7.76	15.8	–	4329		356	"
	/			post 1.10		post 210		
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							

Comments
Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/16/06 / 1448

Purging Equipment: Pump - Type: Bailer - Type: Disp Other:

Sample Filtered: (Yes) No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1349MW03R	1 x HNO3 500ml poly	C&T	2050	
	1 x 1L Poly NP			
	5 x 1L Amber NP			
	6 x 40ml VOA HCl			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1349 ~~Landfill~~ ER
Well No.: 1349MW101
Project Number: 28893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: D. Cornish
Sampled by: D. Cornish
Date: 3/16/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 39.55

Depth to Water (WL, ft. below TOC): 24.69

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow
[ ] Normal
[X] Modified (max 5 gpm)
[X] Bailer \ Type: Disp.
[ ] Pump \ Type:
[ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: .5gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI DOMeter / Orion ORP

Time	/ Liters or ~~Gallons~~	pH	Temp °C °F	DO (mg/L)	Sp. COND µS ~~(mS/cm)~~	ORP (mV)	Turbidity (NTU)	Comments
1600	/ init	6.46	15.0	pre 0.70	3697	—	37	clear
1603	/ 1.5	6.44	15.2	—	3774	—	539	cloudy
1606	/ 3.0	6.48	15.2	—	3930	—	71000	"
1609	/ 4.5	6.44	15.2	—	3934	—	>1000	"
	/			post 0.33		post 74.7		
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other on site tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/16/06 / 1615

Purging Equipment: Pump - Type: Bailer - Type: Disp Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1349MW101	1x500ml HNO3 poly	C&T	2050	
	1x1L Poly NP			
	5x1L Amber NP			
	6x40ml Vials HCl			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill B 1349 — Well No.: 1349MW101

Project Number: Z893 — Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish — Sampled by: P. Cornish — Date: 3/16/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 44.63

Depth to Water (WL, ft. below TOC): 22.42

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type Disp.

[ ] Normal [ ] Pump \ Type

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate — Purge Rate

45 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI Pometer / Orion ORP

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND MS (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1520	/	init.	8.39	16.1	pre 1.79	1032	–	55	clear
1523	/	1.5	8.02	16.1	–	1049	–	24	" white
1526	/	3.0	8.04	16.1	–	1103	–	40	"
1529	/	4.5	8.06	16.0	–	1099	–	52	"
	/				post 1.41		post 160.7		
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments — Purge water storage/disposal: [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/16/06 / 1540

Purging Equipment: Pump - Type — Bailer - Type: Disp. — Other

Sample Filtered: Yes / No — Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1349MW101	1x1L Poly NP	C&T	2050	
	1x500ml HNO3 Poly			
	5x1L Amber NP			
	6x40ml VOA HCl			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1349 | Well No.: 1349MW102

Project Number: 28893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: MD | Sampled by: JamDeJong | Date: 3/7/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 35.20

Depth to Water (WL, ft. below TOC): 19.29

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type Disp

[ ] Normal [ ] Pump \ Type

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[X] Other N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate ~.3gpm | gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI, Hach, Myron

Time	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1522	Initial	7.03	14.0	Pre: 0.40	1323	—	38	Clear
1525	0.9	6.71	14.2	—	1319	—	870	Cloudy
1528	1.8	6.68	14.3	—	1423	—	891	
1531	2.7	6.72	14.2	post: 0.15	1441	post: -69	901	

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other Baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/7/06 1545

Purging Equipment: Pump - Type | Bailer - Type Disp | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1349MW102	6 HCl VOCs	CTL	2109	
	5 ND 1L Amber			
	1L ND poly			
	1500ml HNO3			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
1349MW102	DUP030706C @1550
1349MW102	~~MW~~ 1349MW102CL

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1349 | Well No.: 1349MW103

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeJong | Sampled by: John DeJong | Date: 3/9/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 49.71

Depth to Water (WL, ft. below TOC): 32.39

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other: ~~DP~~ any

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other: N/A

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate: 0.3 gpm | gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI, Mypon, HACH, ORION

Time	/ Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1514	/ Initial	7.38	12.9	Pre: 0.13	3505	–	20	
1517	/ 0.9	7.30	13.4	–	3497	–	97	
1520	/ 1.8	7.25	13.5	–	3601	–	125	
1523	/ 2.7	7.23	13.5	–	3665	–	180	
1526	/ 3.6	7.25	13.6	–	3604	–	193	
1529	/ 4.5	7.27	13.6	Post: 0.19	3591	Post: -26.1	186	
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 3/9/06 / 1535

Purging Equipment: Pump - Type: | ~~Bailer - Type~~: Disp | Other:

Sample Filtered: ~~Yes~~ / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1349MW103	6 HCl VOAs	CTF		
	1 L poly			
	1 HNO3			
	5 L Dumbers			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1349 | Well No.: 1349 MW 104

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeJong | Sampled by: John DeJong | Date: 3/9/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 44.98

Depth to Water (WL, ft. below TOC): 28.85

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type Disp

[ ] Normal [ ] Pump \ Type

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[X] Other N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate ~.5gpm | gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI, HACH, Myron L Orion

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1353	/	Initial	7.65	12.8	Pre 0.14	3285	—	12	Clear
1356	/	1.5	7.50	13.0	—	3336	—	532	
1359	/	3	7.47	13.1	—	3413	—	259	
1402	/	4.5	7.47	13.0	—	3431	—	221	
1405	/	6	7.50	13.0	Post 0.08	3403	~~post 83.1~~ post -83.1	249	
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other Baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/9/06 1410

Purging Equipment: Pump - Type | Bailer - Type Disp | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1349MW104	1L poly	CET		
	1 HNO3			
	5 Lambers			
	6 Hcl vocs			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area 1349 | Well No. 1349MW105

Project Number 2893 | Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By R. Cornish | Sampled by R Cornish | Date 3/20/06

WELL PURGING

PURGE VOLUME

Well casing diameter

[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 43.98

Depth to Water (WL, ft. below TOC): 27.02

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged

[ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type Disp

[ ] Normal [ ] Pump \ Type

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate .5gpm | 4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI Dometer/Orion ORP

Time	/	Liters or ~~Gallons~~	pH	Temp °F	DO (mg/L)	Sp. COND ~~mS/cm~~ MS	ORP (mV)	Turbidity (NTU)	Comments
1422	/	init	9.51	14.3	pre. 0.41	1971	–	25	clear
1426	/	1.5	8.58	13.8	–	2088	–	225	
1429	/	3	8.14	13.6	–	2090	–	197	
1432	/	4.5	8.02	13.5	–	2084	–	155	
	/				post 0.19		post -157.1		
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other on site tank

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled 3/20/06 / 1440

Purging Equipment Pump - Type | Bailer - Type Disp. | Other

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1349MW105	5x1L NP Amber	CAT	2055	
	6x40ml VOAs HCl			
	1x500ml H_2SO_4 Poly			
	1x1L Poly NP			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

Second Quarter 2006

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bld. 1349 | Well No.: 1349 MW 100

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: J. DeJong | Sampled by: J. DeJong | Date: 5/24/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 39.55

Depth to Water (WL, ft. below TOC): 22.03

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other: N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate: ~.2gpm

1.8 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI, HH, Myron, ISF

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1245	Initial	6.41	17.6	–	4003	–	50	odor
1248	0.6	6.36	16.9	–	4037	–	120	
1251	1.2	6.35	16.5	–	4051	–	306	
1254	1.8	6.37	16.7	~~post: 2.7~~ post: 1.1	4047	post: -77.5	~~326~~	

Comments: DO (taken @ 36')

Purge water storage/disposal: [ ] Drummed onsite [X] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/24/06, 1300

Purging Equipment: Pump - Type | Bailer - Type: Disp | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1349MW100	6 HCl vocs	K2 Dyk	CH2151	
	1 HNO3			
	5 L Amb			
	1 L poly			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
1349MW100	Dup052406SA @ 1305
	1349MW100CL @ 1300

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo

Environmental and Geotechnical Consultant

FILL SITE 1, LANDFILL 2, EL POLIN SPRING
TENNESSEE HOLLOW, AND UPGRADIENT WELLS
APPENDIX SECTION A-6
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2006
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

The Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, and Upgradient Wells area monitoring wells are located in the southeastern portion of the Presidio (Figure 1). Fill Site 1 is north of the Julius Kahn Public Playground. The site vicinity includes the El Polin Spring picnic area and the El Polin Spring sampling location (Figure A-6-1). The elevation at Fill Site 1 ranges from approximately 100 to 150 feet above the PLLW datum (Montgomery Watson, 1996c). The elevation at Landfill 2 ranges from approximately 140 to 240 feet above the PLLW datum. The Tennessee Hollow and the Upgradient Wells area monitoring wells have surface elevations ranging from approximately 45 to 110 feet and 170 to 265 feet above the PLLW datum, respectively.

Debris fill materials were disposed in Fill Site 1 from 1948 until 1973. Landfill 2 was in operation from 1946 to 1973 and was used for disposal of building debris and other wastes (Dames and Moore, 1997; Ringden and Sitton, 1990). Potential sources of contamination exist in fill materials disposed at both Fill Site 1 and Landfill 2. The Upgradient Area and Tennessee Hollow wells are currently being used to monitor groundwater elevations only, and are not sampled.

Groundwater sampling began in November 1990 at Fill Site 1 and Landfill 2. Groundwater samples have been analyzed for some or all of the following: general chemistry parameters, VOCs, SVOCs, OCPs, PCBs, chlorinated herbicides, TPH, dissolved metals, and cyanide. No OCPs, PCBs or chlorinated herbicides have ever been detected in any of the monitoring wells currently being monitored at the site. A summary of historical groundwater analytical results can be found in Tables A-6-1 through A-6-4.

2.0 SITE DESCRIPTION AND GEOLOGY

Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, and Upgradient Wells Areas are located within the Northeastern Groundwater Area of the Marina Groundwater Basin (Figure 1). Groundwater generally flows northward across the site towards the Crissy Field Groundwater Area (Montgomery Watson, 1996c).

Fill Site 1 and Landfill 2 have 10 associated monitoring wells (LF01GW01 through LF01GW07, and LF02GW01, LF02GW02, and LF02GW04) and one surface water sampling location (EPSP01) (Figure A-6-1). The Tennessee Hollow Area has four monitoring wells (TH-1, TH-2, TH-3, and TH-4), and the Upgradient Wells Area has five monitoring wells (UBR01GW01, UBR02GW01, UBR02GW02, UBR03GW01, and UBR03GW02). Three additional monitoring wells (10GW100, 300GW01 and PGFGW100) located near Building 10, the Presidio Golf Course, and Paul Goode Field are monitored for groundwater elevation on a quarterly basis. Two monitoring wells (100GW101 and 104GW100) were installed adjacent to Buildings 100 and 104 in October 2002. These two wells have had four consecutive quarters of non-detect sampling results and therefore were removed from the sampling schedule beginning with the Second Quarter 2004. Abandonment of these wells will be proposed in the Mini-CAP Group II document, which is currently being prepared.

The Northeastern Groundwater Area is covered with grasses, annual plants, and trees and is occupied by Presidio housing. Fill Site 1 and Landfill 2 are located in the Tennessee Hollow Valley. The Landfill 2 site is approximately 300 feet west of Fill Site 1 (Figure A-6-1). Landfill 2 is in a hilly, densely forested area. Fill Site 1 contains fill from the ground surface to approximately 34 feet bgs. The fill at Fill Site 1 consists of sand and gravel with varying amounts of construction debris. The fill layer at Landfill 2 extends from the ground surface to 20 feet bgs. The fill material found in Landfill 2 consists of glassware, hospital debris, wood, and general construction debris. The fill layer at both sites is underlain by laterally bedded, fine-grained, silty sand of the Colma Formation. Serpentinite rock of the Franciscan Formation lies beneath the Colma Formation and was encountered at depths ranging from 40 to 79 feet bgs (Montgomery Watson, 1996c). The five Upgradient wells (UBR01GW01, UBR02GW01, UBR02GW02, UBR03GW01, and UBR03GW02) are screened in Franciscan Formation bedrock.

3.0 GROUNDWATER MONITORING

During First and Second Quarter 2006, groundwater elevations were measured at all monitoring wells. Groundwater samples were collected from Fill Site 1, Landfill 2, and from the El Polin Spring during the First Quarter 2006. No monitoring wells or El Polin Spring were scheduled for sampling during the Second Quarter 2006.

3.1 Groundwater-Level Measurements and Interpretation

Groundwater elevation measurements were collected on 6 March and 22 May 2006 at all well locations. Groundwater elevations are summarized in Table A-6-5. Water level meters were calibrated on 6 March and 22 May 2006 and the calibration forms can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C. Although new high groundwater elevations were measured in several of the wells during the First and Second Quarters 2006, these high elevations are only slightly higher than previous measurements, likely due to higher than normal precipitation, and are generally consistent with historical observations.

The groundwater elevation within monitoring well 10GW100 was evaluated with Building 215 and nearby Commissary/PX Area monitoring wells during the First and Second Quarter 2006 and sufficient data now exists to calculate groundwater flow directions and gradients in the northern portion of the area. Groundwater elevation data associated with the Commissary/PX area can be found in Section A-16.

First Quarter 2006 groundwater elevations ranged from 33.39 to 244.59 feet above PLLW in monitoring wells 10GW100 and UBR02GW01, respectively. A First Quarter 2006 groundwater elevation map showing groundwater contours and flow directions for Fill Site 1, Landfill 2, Tennessee Hollow, and Upgradient Wells is included as Figure A-6-2. First Quarter 2006, groundwater was determined to flow in northeasterly, northerly, and northwesterly directions in the southern portion of the area, following the general topographic trend. The groundwater gradient was estimated to be approximately 0.12 feet per foot to the northeast, approximately 0.030 feet per foot to the north, and approximately 0.093 feet per foot to the northwest.

The groundwater flow direction and gradient in the northern portion of the area are depicted on Figure A-6-4. Groundwater flow was northerly during the First Quarter 2006 in the northern portion of the area, which follows the general topographic trend. The groundwater gradient was estimated to be approximately 0.015 feet per foot in this area.

Second Quarter 2006 groundwater elevations ranged from 33.39 feet above PLLW in monitoring well 10GW100 to 246.95 feet above PLLW in monitoring wells UBR02GW01 and UBR02GW02. A Second Quarter 2006 groundwater elevation map showing groundwater contours and flow directions for Fill Site 1, Landfill 2, Tennessee Hollow, and Upgradient Wells is included as Figure A-6-3. Second Quarter 2006, groundwater flow was in northeasterly, northerly, and northwesterly directions in the southern portion of the area, following the general topographic trend. The groundwater gradient was estimated to be approximately 0.109 feet per foot to the northeast, approximately 0.031 feet per foot to the north, and approximately 0.12 feet per foot to the northwest.

The Second Quarter 2006 groundwater flow direction and gradient in the northern portion of the area are depicted on Figure A-6-5. Groundwater was determined to flow northerly during the Second Quarter 2006 in the northern portion of the area, which follows the general topographic trend. The groundwater gradient was estimated to be approximately 0.012 feet per foot in this area.

Upgradient well UBR02GW01 is adjacent to and screened deeper than UBR02GW02, and upgradient well UBR03GW01 is adjacent to and screened deeper than UBR03GW02. Groundwater elevations in wells UBR02GW01 and UBR03GW01 have a different potentiometric surface than the adjacent wells that are screened shallower and were not used in constructing groundwater contours or calculating groundwater gradients in the shallow aquifer. The groundwater gradients and flow directions calculated during this sampling event are consistent with previous findings.

3.2 Monitoring Well Purging and Sampling

Groundwater samples were collected from all Fill Site 1 and Landfill 2 groundwater monitoring wells during the First Quarter 2006. A surface water sample, EPSP01, was collected from El Polin Spring during the First Quarter 2006. The samples were collected in accordance with procedures described in the FSP (Treadwell & Rollo, 2001a).

In accordance with the proposed sampling schedules (Tables 1A and 1B), no Fill Site 1, Landfill 2 monitoring wells or El Polin Spring were sampled during the Second Quarter 2006.

Purge equipment, purging volumes, and sampling equipment for each monitoring well are described in the purge *records* located at the conclusion of this section. Purge water was stored for future disposal in one of two 2,800-gallon aboveground polyethylene storage tanks, which are located at the Central Magazine.

3.3 Groundwater Analytical Program

Groundwater and surface water samples collected were submitted to the project laboratory for the analyses shown in Tables 1A and 1B of the main text. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are shown in Table 5. Sample containers used at each well are described in the purge records located at the conclusion of this section.

QA/QC samples were collected as part of this program. Section 6.2 of the main text discusses the QA/QC sampling and analysis performed during the First and Second Quarters 2006.

4.0 GROUNDWATER ANALYTICAL RESULTS

Groundwater samples collected from the Fill Site 1 and Landfill 2 areas during the First Quarter 2006 were analyzed for general water chemistry parameters, TDS, cyanide, and 22 dissolved metals. The surface water sample collected from El Polin Spring was analyzed for general water chemistry parameters, TDS, cyanide, 22 total metals, and 22 dissolved metals during the First Quarter 2006. No additional samples were collected during the First and Second Quarters 2006, in accordance with the proposed sampling schedule (Tables 1A and 1B).

Groundwater data collected in October 2002 from monitoring wells 100GW101 and 104GW101 as part of the Mini-CAP investigation is reported in the *Draft Summary Additional Investigations, Mini-CAP Sites, January 2003*, prepared by Geo/Resource Consultants, and has been incorporated into Table A-6-2.

4.1 Dissolved Oxygen

Dissolved oxygen results are presented in Table A-6-1. During the First Quarter 2006, dissolved oxygen was measured at concentrations ranging from 0.4 mg/L in well LF02GW02 to 4.22 mg/L in monitoring well LF01GW07. A new low concentration of dissolved oxygen (0.71 mg/L) was measured within monitoring well LF01GW03, during the First Quarter 2006 (Table A-6-1). However, this new low concentration is not significantly different than previous concentrations and can be attributed to natural fluctuations.

During the First Quarter 2006, dissolved oxygen was measured in the El Polin Spring sample at a concentration of 7.05 mg/L which is within the historical concentration range.

4.2 General Chemistry Results

General chemistry results for the First Quarter 2006 at Fill Site 1, Landfill 2, and the El Polin Spring, are generally within historical ranges (Table A-6-1). The table below summarizes new high and low general chemistry analytical results for the First Quarter 2006 when compared to previous sampling events, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date of commencement of sampling, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
General Chemistry							
LF01GW06	Chloride	31 / 31	2.2	335 *	1.5	--	mg/L
	Nitrate	17 / 17	0.34	12	0.16	--	mg/L
LF02GW04	Chloride	28 / 28	61	170	46	--	mg/L

Qualified data in the table above is indicated with an asterisk (*).

One Fill Site 1 sample and one Landfill 2 sample had new low chloride concentrations during the First Quarter 2006. LF1GW06 also had a new low nitrate concentration. However, these are attributed to natural fluctuations and are not considered to be significant. A summary of historical general chemistry results for these areas are presented in Table A-6-1.

4.3 Cyanide Results

Cyanide was detected at a laboratory reporting limit of 0.01 for the first time in the sample from monitoring well LF01GW02 collected during the First Quarter 2006. The detected concentration is not considered significant. Cyanide was previously detected on two occasions; at EPSP01 at 0.009 mg/L in 1994 and at LF01GW01 at 0.02 mg/L in 2002. Cyanide will continue to be monitored within Fill Site 1 and Landfill 2 monitoring wells and at El Polin Spring on an annual basis. A summary of cyanide results for these areas are presented in Table A-6-1.

4.4 SVOC, PAH, OCP, PCB, Chlorinated Herbicides, and VOC Results

No SVOCs, PAHs, OCPs, PCBs, chlorinated herbicides, or VOC analyses were performed for any of the Fill Site 1 or Landfill 2 monitoring well or El Polin Spring samples during the First and Second Quarters 2006. A summary of historical SVOC, PAHs, OCPs, PCBs, chlorinated herbicide, and VOC results for these areas are presented in Table A-6-2.

4.5 Dissolved Metals Results

Fill Site 1 and Landfill 2 groundwater samples and the El Polin Spring surface water samples collected during the First Quarter 2006 were analyzed for dissolved metals. A summary of dissolved metals results for these areas is presented in Table A-6-3. Beginning in the Second Quarter 2003, seven metals (arsenic, barium, beryllium, chromium, cobalt, nickel, and zinc), which were previously analyzed by EPA Method 6020, were granted variance from the QAPP reporting limits by the stakeholders and were analyzed using EPA Method 6010, as discussed in Section 5.1 of the main text. This change in analytical method has generally resulted in an expected slight increase in laboratory reporting limits for these metals.

Dissolved metals results for the First Quarter 2006 at Fill Site 1, Landfill 2, and El Polin Spring are generally within historical ranges. The table below summarizes new high and low dissolved metals analytical results for the First Quarter 2006 when compared to previous sampling events, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date sampling commenced, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Metals, Dissolved							
LF01GW01	Magnesium	36 / 36	32,000	54,000	--	74,000	µg/L
	Sodium	36 / 36	27,100	42,600	27,000	--	µg/L
LF01GW06	Barium	31 / 31	24	770	22	--	µg/L
	Calcium	31 / 31	26,000	48,200	19,000	--	µg/L
	Magnesium	31 / 31	4,700	51,000	3,100	--	µg/L
	Sodium	31 / 31	8,800	42,000	6,200	--	µg/L
LF02GW04	Barium	28 / 28	80	790	76	--	µg/L
	Potassium	13 / 28	< 5,000 *	6,700	--	9,000	µg/L
	Total Dissolved Solids	22 / 22	400	931	340	--	mg/L

Qualified data in the table above is indicated with an asterisk (*).

Three locations had new high and/or low concentrations of dissolved metals during the First Quarter 2006, but these appear to be attributed to natural fluctuations are not considered to be significant.

4.6 Total Metals Results

During the First Quarter 2006, the surface sample collected at El Polin Spring was analyzed for total metals by EPA Methods 6010/6020. Total metals results are presented in Table A-6-3. The table below summarizes new high and low total metals analytical results for the First Quarter 2006 when compared to previous sampling events, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date sampling commenced, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Metals, Total							
EPSP01	Barium	3 / 3	79	82	75	--	µg/L
	Calcium	3 / 3	15,000	15,000	13,000	--	µg/L
	Chromium	3 / 3	30	31	28	--	µg/L
	Copper	2 / 3	< 1	1.1	--	1.2	µg/L
	Iron	3 / 3	230	450	180	--	µg/L
	Magnesium	3 / 3	83,000	86,000	74,000 *	--	µg/L
	Manganese	3 / 3	68	83	65	--	µg/L
	Sodium	3 / 3	31,000	31,000	27,000	--	µg/L

Qualified data in the table above is indicated with an asterisk (*).

Although a new high copper and several new low concentrations of total metals were detected within EPSP01 during the First Quarter 2006, the concentrations were generally within the range of historical total metals results and are not considered to be significant.

4.7 Total Dissolved Solids Results

The concentrations of TDS measured at Fill Site 1, Landfill 2 and at El Polin Spring during the First Quarter 2006, are generally within the range of historically measured levels, with the exception of the new low TDS concentration detected in the sample from monitoring well LF02GW04 during the First Quarter 2006. A summary of TDS results for these areas are presented in Table A-6-3.

4.8 TPH Results

No TPH analyses were performed on any of the Fill Site 1 or Landfill 2 monitoring well or El Polin Spring samples during the First and Second Quarters 2006. A summary of historical TPH results for these areas is presented in Table A-6-4.

5.0 CONCLUSIONS & RECOMMENDATIONS

No significant trends were observed during the First and Second Quarters 2006. The sampling frequency at Fill Site 1 and Landfill 2 has been reduced to annual (Tables 1A and 1B) until a decision document is approved. Due to four consecutive quarters of non-detect results, monitoring wells 100GW101 and 104GW101 were removed from the sampling schedule following the First Quarter 2004. Abandonment of these wells will be proposed in the pending Group II Mini-CAP document.

Annual analysis of 22 dissolved metals will continue to be conducted at El Polin Spring for the purpose of comparing surface water analytical results to nearby groundwater results and evaluating the potential for human exposure. No additional changes to the groundwater monitoring program have been proposed at this site.

Table A-6-1
Results of General Chemistry and Cyanide Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	E335.2/ SW9010/ SW9012	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
EPSP01	03/16/06	330	330	85	< 0.01	7.05	< 0.1	1.1	< 0.05	NA	17
	11/30/05	NA	NA	NA	< 0.01	1.91	NA	NA	NA	NA	NA
DUP1130052A	11/30/05	NA	NA	NA	< 0.01	--	NA	NA	NA	NA	NA
EPSP01CL	11/30/05	NA	NA	NA	< 0.01	--	NA	NA	NA	NA	NA
	08/30/05	NA	NA	NA	< 0.01	1.2	NA	NA	NA	NA	NA
DUP0830052C	08/30/05	NA	NA	NA	< 0.01	--	NA	NA	NA	NA	NA
EPSP01CL	08/30/05	NA	NA	NA	< 0.01	--	NA	NA	NA	NA	NA
	05/26/05	NA	NA	NA	< 0.01	0.9	NA	NA	NA	NA	NA
DUP0526052B	05/26/05	NA	NA	NA	< 0.01	--	NA	NA	NA	NA	NA
EPSP01CL	05/26/05	NA	NA	NA	< 0.010 U	--	NA	NA	NA	NA	NA
	03/15/05	460	460	89	< 0.01	NM	< 0.1	1.2	< 0.05	NA	17
	12/15/04	NA	NA	NA	< 0.01	0.90	NA	NA	NA	NA	NA
DUP1215042B	12/15/04	NA	NA	NA	< 0.01	--	NA	NA	NA	NA	NA
EPSP01CL	12/15/04	NA	NA	NA	< 0.01 U	--	NA	NA	NA	NA	NA
	08/11/04	NA	NA	NA	< 0.01	NM	NA	NA	NA	NA	NA
DUP0811041B	08/11/04	NA	NA	NA	< 0.01	--	NA	NA	NA	NA	NA
EPSP01CL	08/11/04	NA	NA	NA	< 0.01	--	NA	NA	NA	NA	NA
	05/28/04	NA	NA	NA	< 0.01	6.2	NA	NA	NA	NA	NA
DUP0528041B	05/28/04	NA	NA	NA	< 0.01	--	NA	NA	NA	NA	NA
EPSP01CL	05/28/04	NA	NA	NA	< 0.005	--	NA	NA	NA	NA	NA
	03/15/04	310	310	90	< 0.01	6.83	< 0.1	1.4	< 0.05	NA	18
	12/05/03	NA	NA	NA	< 0.01	5.7	NA	NA	NA	NA	NA
DUP1205031B	12/05/03	NA	NA	NA	< 0.01	--	NA	NA	NA	NA	NA
EPSP01CL	12/05/03	NA	NA	NA	< 0.005	--	NA	NA	NA	NA	NA
	08/14/03	NA	NA	NA	< 0.01	5.7	NA	NA	NA	NA	NA
	06/06/03	NA	NA	NA	< 0.01	6.9	NA	NA	NA	NA	NA
	03/13/03	310	310	82	< 0.01	5.1	< 0.1	1.6	< 0.05	NA	16
	12/03/02	290	290	82	< 0.01	9.3	< 0.1	1.4 [2]	< 0.05	NA	17
	08/27/02	270	270	78	< 0.01	1.6	0.19	1.5	< 0.05	NA	16
	06/05/02	290	290	82	< 0.01 UJ	7	0.11	1.5	< 0.05	NA	17
	03/11/02	300	300	78	< 0.01	4.0	0.11	1.3	< 0.05	NA	17
	11/28/01	300	300	190	< 0.01	2.1	0.08 J	1.6 J	< 0.05 UJ	NA	18

Table A-6-1
Results of General Chemistry and Cyanide Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	E335.2/ SW9010/ SW9012	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
EPSP01	08/29/01	290	290	81	< 0.01	3.5	0.081 J	1.6	< 0.05	NA	17
	05/18/01	290	290	82	< 0.01	3.9	0.076 J	1.7	< 0.05	NA	17
	05/13/99	301	301	97	< 0.05	8.0	< 0.1	NA	NA	1.38 (J12)	18.4
	02/10/99	287	287	103	< 0.05	NM	< 0.1	NA	NA	1.52	31
	12/04/98	290	290	96	< 0.05	NM	0.118	NA	NA	1.62	18.6
	04/17/98	280	280	78	< 0.01	4.4	< 0.1	1.43	NA	1.33	14.3
	03/09/98	270	270	72	< 0.01	5.7	< 0.1	NA	NA	1.28	14.4
	01/08/98	282	282	77	< 0.01	NM	< 0.1	1.59	NA	1.45	14.6
	11/09/94	NA	295	85.3	0.009	NM	NA	0.187	NA	NA	NA
	09/04/92	240	NA	70	NA	NM	NA	NA	NA	1.9	13.4
	02/06/91	NA	320	NA	NA	NM	NA	NA	NA	1.6	NA
	11/13/90	NA	NA	63	NA	NM	0.806	NA	NA	NA	18
LF01GW01	03/08/06	310	310	52	< 0.01	0.53	< 0.1	5.5	< 0.05	NA	48
DUP0308063C	03/08/06	300	300	53	< 0.01	--	< 0.1	5.6	< 0.05	NA	48
LF01GW01CL	03/08/06	290	290	54.4	NA	--	< 1 U	5.93	< 0.02 U	NA	46.7
	03/15/05	250	250	53	< 0.01	0.10	< 0.1	4.1	< 0.05	NA	37
DUP0317051A	03/15/05	290	290	53	< 0.01	--	< 0.1	4.2	< 0.05	NA	38
LF01GW01CL	03/15/05	259	259	51.6	< 0.01 U	--	< 0.3 U	4.34	< 0.1 U	NA	37
	03/16/04	230	230	48	< 0.01	0.2	< 0.1	5.8	< 0.05	NA	43
	03/13/03	200	200	25	< 0.01	0.2	< 0.1	1.2	< 0.05	NA	31
	12/09/02	190	190	47	< 0.01	2.2	< 0.1	7.2	< 0.05	NA	32
DUP1209022D	12/09/02	190	190	48	0.02	--	< 0.1	7.2	< 0.05	NA	33
LF01GW01CL	12/09/02	190	190	45	< 0.005	--	0.14	7.3 J-	< 0.05 UJ	7.3 J-	37
	08/27/02	210 J-	210 J-	49	< 0.01	0.9	0.2	2.1	< 0.05	NA	39
	05/29/02	220	220	44	< 0.01	1.3	0.077 J	0.09	< 0.05	NA	40
	03/11/02	260	260	35	< 0.01	1.2	0.087 J	1.4	< 0.05	NA	49
DUP0311022A	03/11/02	270	270	35	< 0.01	--	0.099 J	1.4	< 0.05	NA	49
LF01GW01CL	03/11/02	250	250	39	< 0.01	--	< 1	1.4	< 1	NA	51
	11/27/01	190	190	30	< 0.01	2.5	0.12	6 J	< 0.05 UJ	NA	31
	08/28/01	200	200	29	< 0.01	3.0	0.13	2	< 0.05	NA	33
	05/16/01	260	260	57	< 0.01	6.2	0.099 J	1.6	< 0.05	NA	46

Table A-6-1
Results of General Chemistry and Cyanide Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	E335.2/ SW9010/ SW9012	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
LF01GW01	05/10/99	263	263	34	< 0.05	2.6	0.105	NA	NA	3.28 (J23)	53
	02/08/99	233	233	42	< 0.05	1.6	0.1	NA	NA	7.28	42
	11/09/98	241	241	45	< 0.1	5.4	< 0.1	NA	NA	4.27	46
	08/11/98	234	234	299	< 0.05	5.1	0.121	NA	NA	6.24	33
	04/09/98	300	300	30	< 0.05	2.4	0.11	NA	NA	2.1	39
	01/05/98	222	222	56	< 0.01	4.6	< 0.1	10.4	NA	9.04	38.8
	11/05/97	190	190	57	< 0.05	5.2	< 0.1	NA	NA	8.7	38
	08/06/97	230	230	47	NA	3.8	0.19	NA	NA	NA	40
	05/07/97	280	280	35	NA	4.2	0.17	NA	NA	2.2	42
	02/06/97	270	270	52	NA	4.6	0.14	NA	NA	9.3	41
	10/29/96	230	230	41	NA	NM	0.13	NA	NA	5.2	43
	08/01/96	260	260	36	NA	NM	0.14	NA	NA	3	49
	05/23/96	330	330	28	NA	NM	0.14	NA	NA	3	56
	03/08/96	248	248	57	NA	NM	0.352	10	NA	NA	45
	12/15/95	214	214	54	NA	NM	0.3	5.8	NA	NA	46
	09/13/95	260	260	38	NA	NM	< 0.25	NA	NA	1.5	63
	11/08/94	240	240	466	NA	NM	NA	5.84	NA	NA	55.1
	08/26/92	319	262	46	NA	NM	NA	NA	NA	2.0	109
	11/30/90	NA	NA	43	NA	NM	0.6	NA	NA	10.9	42
LF01GW02	03/16/06	280	280	100	0.01	0.61	< 0.1	10	< 0.05	NA	50
	03/15/05	290	290	100	< 0.01	0.90	< 0.1	5.6	< 0.05	NA	42
	03/16/04	330	330	130	< 0.01	0.3	< 0.1	6.4	< 0.05	NA	49
	03/13/03	310	310	91	< 0.01	0.1	< 0.1	6.9	< 0.05	NA	42
	12/03/02	260	260	70	< 0.01	4.0	< 0.1	6.7	< 0.05	NA	42
	08/27/02	280 J-	280 J-	44	< 0.01	2.9	0.19	5.3	< 0.05	NA	39
	05/29/02	320	320	81	< 0.01	1	0.084 J	5.8	< 0.05	NA	44

Table A-6-1
Results of General Chemistry and Cyanide Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	E335.2/ SW9010/ SW9012	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
LF01GW02	03/11/02	320	320	88	< 0.01	3.2	0.086 J	6.1	< 0.05	NA	43
	11/27/01	310	310	90	< 0.01	4	0.12	7 J	< 0.05 UJ	NA	42
	08/28/01	300	300	93	< 0.01	3	0.1	7.3	< 0.05	NA	43
DUP0828012A	08/28/01	300	300	93	< 0.01	--	0.081 J	7.3	< 0.05	NA	43
	05/17/01	300	300	84	< 0.01 UJ	5.3	0.12	6.6	< 0.05	NA	38
DUP0517011A	05/17/01	310	310	82	< 0.01 UJ	--	0.076 J	6.2	< 0.05	NA	38
	05/11/99	259	259	78	< 0.05	5.1	< 0.1	NA	NA	7.99	41
	02/09/99	187	187	110	< 0.05	5	< 0.1	NA	NA	6.82	28
	11/10/98	240	240	57	< 0.1	5.3	< 0.1	NA	NA	17.4	59
	08/12/98	244	244	46	< 0.05	7.5	0.109	NA	NA	8.81	339
	04/10/98	240	240	77	< 0.05	5.4	0.12	NA	NA	16	49
	01/06/98	250	250	63	< 0.01	5.3	< 0.1	9.89	NA	8.93	37.6
	11/04/97	240	240	56	< 0.05	5.2	< 0.1	NA	NA	13	49
	08/05/97	240	240	56	NA	5.3	0.2	NA	NA	NA	49
	05/06/97	250	250	79	NA	5.7	< 0.1	NA	NA	12	49
	02/04/97	250	250	66	NA	5.3	< 0.1	NA	NA	9.8	56
LF01GW02	10/29/96	260	260	58	NA	NM	0.15	NA	NA	17	58
	08/01/96	250	250	66	NA	NM	< 0.1	NA	NA	21 (J10)	61
	05/23/96	240	240	71	NA	NM	< 0.1	NA	NA	28	58
	03/08/96	212	212	62	NA	NM	0.305	32	NA	NA	62
	12/15/95	217	217	53	NA	NM	0.3	22	NA	NA	55
	09/13/95	250	250	73	NA	NM	< 0.25	NA	NA	13	59
	08/26/92	379	311	65	NA	NM	NA	NA	NA	7.7	40
	11/30/90	NA	NA	65	NA	NM	0.8	NA	NA	8.3	49
LF01GW03	03/20/06	380	380	86	< 0.01	0.71	< 0.1	4.9	< 0.05	NA	37
	03/15/05	300	300	110	< 0.01	0.90	< 0.1	4.8	< 0.05	NA	38
	03/17/04	360	360	120	< 0.01	1	< 0.1	4.9	< 0.05	NA	47
	03/13/03	370	370	110	< 0.01	0.8	< 0.1	5.2	< 0.05	NA	42
	12/03/02	340	340	84	< 0.01	3.7	< 0.1	6	< 0.05	NA	34
	08/27/02	350 J-	350 J-	82	< 0.01	2.1	0.2	6	< 0.05	NA	33

Table A-6-1
Results of General Chemistry and Cyanide Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	E335.2/ SW9010/ SW9012	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
LF01GW03	05/29/02	360	360	99	< 0.01	1.2	0.12	5.7	< 0.05	NA	36
	03/12/02	360	360	120	< 0.01	2.2	< 0.1 U	5.4	< 0.05	NA	45
	11/27/01	360	360	88	< 0.01	3.1	0.11	6.1 J	< 0.05 UJ	NA	35
	08/29/01	350	350	88	< 0.01	2.6	0.12	6.2	< 0.05	NA	34
	05/17/01	370	370	99	< 0.01 UJ	5.4	0.07 J	5.7	< 0.05	NA	43
	05/10/99	374	374	108	< 0.05	1.8	< 0.1	NA	NA	5.58	34
	02/08/99	365	365	130	< 0.05	1.2	< 0.1	NA	NA	6.97	94
	11/09/98	353	353	130	< 0.1	1.8	< 0.5	NA	NA	4.75	40
	08/11/98	340	340	96	< 0.05	3.5	< 0.1	NA	NA	5	25
	04/09/98	350	350	120	< 0.05	2.2	< 0.1	NA	NA	5.9	35
	01/05/98	346	346	83	< 0.01	3	< 0.1	5.11	NA	4.6	34.1
	11/05/97	340	340	84	< 0.05	1.5	< 0.1	NA	NA	5.2	31
	08/06/97	340	340	83	NA	2.5	0.17	NA	NA	NA	30
	05/07/97	350	350	97	NA	1.7	0.13	NA	NA	4.2	29
	02/05/97	340	340	100	NA	3.8	0.11	NA	NA	6.8	31
	10/30/96	350	350	100	NA	NM	0.12	NA	NA	6.4	33
	08/05/96	330	330	86	NA	NM	0.1	NA	NA	7.6	31
	05/22/96	350	350	91	NA	NM	0.13	NA	NA	7.7	28
	03/08/96	326	326	92	NA	NM	0.363	5.5	NA	NA	28
	12/15/95	335	335	85	NA	NM	0.4	5.9	NA	NA	30
	09/13/95	340	340	100	NA	NM	< 0.25	NA	NA	5.5	34
	11/08/94	387	387	1,730	NA	NM	NA	5.6	NA	NA	34.5
	09/10/92	345	342	81	NA	NM	NA	NA	NA	4.2	32.6
	12/07/90	NA	480	81	NA	NM	0.8	NA	NA	17.6	39.7
LF01GW04	03/20/06	160	160	71	< 0.01	4.21	< 0.1	9.2	< 0.05	NA	46
	03/17/05	95	95	94	< 0.01	0.80	< 0.1	4.1	< 0.05	NA	45
	03/17/04	210	210	61	< 0.01	0.8	< 0.1	13	< 0.05	NA	52
DUP0317043A	03/17/04	210	210	60	< 0.01	--	< 0.1	13	< 0.05	NA	52
LF01GW04CL	03/17/04	200	200	57	< 0.005	--	< 0.1	13 J	< 0.05 UJ	13 J	49
	03/13/03	210	210	57	< 0.01	0.4	< 0.1	13	< 0.05	NA	47
DUP0313032A	03/13/03	210	210	55	< 0.01	--	< 0.1	13	< 0.05	NA	47
	12/03/02	210	210	57	< 0.01	4.7	< 0.1	12	< 0.05	NA	49

Table A-6-1
Results of General Chemistry and Cyanide Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	E335.2/ SW9010/ SW9012	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
LF01GW04	08/27/02	210 J-	210 J-	58	< 0.01	1	0.2	13	< 0.05	NA	49
	05/30/02	190	190	61	< 0.01	1.4	0.096 J	12	0.03 J	NA	47
DUP0530021B	05/30/02	190	190	63	< 0.01	--	0.14	11	0.03 J	NA	47
LF01GW04CL	05/30/02	190	190	58	< 0.01	--	< 1	12	< 1	NA	49
	03/12/02	72	< 1	83	< 0.01	1.7	< 0.1 U	10	0.04 J	NA	42
	11/27/01	220	220	57	< 0.01	3.2	0.17	13	< 0.05 UJ	NA	49
DUP1127012A	11/27/01	210	210	58	< 0.01	--	0.17	14 J	< 0.05 UJ	NA	49
LF01GW04CL	11/27/01	220	220	66	NA	--	< 1	13 [2]	< 1	NA	53
	08/29/01	210	210	57	< 0.01	3.2	0.15	13	< 0.05	NA	50
	05/17/01	220	220	55	< 0.01 UJ	7.2	0.14	13	< 0.05	NA	49
	05/11/99	229	229	36	< 0.05	5.3	< 0.1	NA	NA	12.4	53
	02/10/99	212	212	35	< 0.05	5.4	< 0.1	NA	NA	13	53
	11/10/98	222	222	27	< 0.1	6	< 0.1	NA	NA	13.1	54
	08/12/98	215	215	205	< 0.05	6.1	0.126	NA	NA	10	40
	04/10/98	230	230	27	< 0.05	5.2	0.11	NA	NA	11	61
	01/06/98	216	216	20	< 0.01	5.4	< 0.1	9.58	NA	8.06	46.5
	11/06/97	220	220	28	< 0.05	5.8	< 0.1	NA	NA	10	51
	08/07/97	230	230	20	NA	5.1	0.15	NA	NA	NA	52
	05/08/97	220	220	21	NA	5.1	0.13	NA	NA	6.2	51
	02/05/97	210	210	33	NA	5.1	0.12	NA	NA	12	49
	10/30/96	220	220	21	NA	NM	0.11	NA	NA	10	50
	08/05/96	220	220	21	NA	NM	0.11	NA	NA	14	50
	05/21/96	230	230	28	NA	NM	0.15	NA	NA	12	45
	03/11/96	214	214	35	NA	NM	0.355	13	NA	NA	46
	12/18/95	223	223	35	NA	NM	< 0.1	13	NA	NA	54
	09/14/95	230	230	39	NA	NM	< 250	NA	NA	12	62
	11/08/94	255	255	575	NA	NM	NA	10.9	NA	NA	51.8
	09/10/92	215	214	55	NA	NM	NA	NA	NA	10	53.5
	12/07/90	NA	300	51	NA	NM	0.6	NA	NA	34.6	55.6

Table A-6-1
Results of General Chemistry and Cyanide Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	E335.2/ SW9010/ SW9012	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
LF01GW05	03/20/06	240	240	65	< 0.01	0.49	< 0.1	1.8	< 0.05	NA	42
	03/15/05	230	230	72	< 0.01	0.60	< 0.1	1.4	< 0.05	NA	40
	03/16/04	220	220	58	< 0.01	0.9	< 0.1	0.84	< 0.05	NA	30
	03/12/03	280	280	71	< 0.01	0.2	< 0.1	0.63	< 0.05	NA	38
	12/03/02	250	250	61	< 0.01	0.9	< 0.1	1	< 0.05	NA	46
	08/27/02	250 J-	250 J-	66	< 0.01	0.8	0.2	0.82	< 0.05	NA	44
	05/29/02	250	250	67	< 0.01	1.6	0.1	0.42	< 0.05	NA	43
	03/11/02	140	110	19	< 0.01	3.8	0.067 J	2.7	< 0.05	NA	13
	11/27/01	250	250	54	< 0.01	4.1	0.095 J	0.79 J	0.04 J,J	NA	45
	08/28/01	260	260	61	< 0.01	0.4	0.085 J	0.25	< 0.05	NA	42
	05/16/01	260	260	58	< 0.01	3.6	0.084 J	0.03 J	< 0.05	NA	44
	05/13/99	262	262	78	< 0.05	0.9	< 0.1	NA	NA	< 0.081 (U4, U12)	50.7
	02/11/99	248	248	87	< 0.05	2.0	< 0.1	NA	NA	< 0.290 (U4)	54
	11/12/98	254	254	94	< 0.1	1.9	< 2	NA	NA	0.39	57
	08/11/98	253	253	66	< 0.05	26.0	< 0.1	NA	NA	0.45	33
	04/09/98	230	230	85	< 0.05	46.0	< 0.1	NA	NA	0.038	45
	01/05/98	247	247	66	< 0.01	2.5	< 0.1	0.115	NA	0.076	37.7
	11/06/97	250	250	86	< 0.05	1.2	< 0.1	NA	NA	3.8	46
	08/07/97	250	250	69	NA	0.8	0.15	NA	NA	NA	41
	05/08/97	250	250	72	NA	1.7	0.11	NA	NA	< 0.05	31
	02/06/97	240	240	65	NA	5.1	0.11	NA	NA	< 0.05	37
	10/31/96	240	240	61	NA	NM	0.11	NA	NA	< 0.05	29
	08/06/96	240	240	59	NA	NM	0.1	NA	NA	0.14	32
	05/22/96	240	240	58	NA	NM	0.14	NA	NA	0.13	35
	03/12/96	227	227	57	NA	NM	0.313	0.24	NA	NA	29
	12/19/95	214	214	54	NA	NM	0.3	0.9	NA	NA	32
	09/15/95	220	220	55	NA	NM	< 0.25	NA	NA	0.43	26
	11/08/94	262	262	527	NA	NM	NA	1.41	NA	NA	37.6
	09/10/92	243	241	46	NA	NM	NA	NA	NA	1.1	49.5
	11/29/90	NA	260	49	NA	NM	0.7	NA	NA	1.3	66.6

Table A-6-1
Results of General Chemistry and Cyanide Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	E335.2/ SW9010/ SW9012	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
LF01GW06	03/20/06	120	120	1.5	< 0.01	4.2	< 0.1	0.16	< 0.05	NA	1.2
	03/15/05	110	110	2.2	< 0.01	0.20	< 0.1	0.34	< 0.05	NA	1.3
	03/17/04	120	120	13	< 0.01	4.8	< 0.1	4.3	< 0.05	NA	18
	03/13/03	240	240	11	< 0.01	1.3	< 0.1	2.4	< 0.05	NA	7.3
	12/03/02	200	200	31	< 0.01	4.1	< 0.1	11	< 0.05	NA	45
	08/27/02	190	190	31	< 0.01	1.2	0.19	11	< 0.05	NA	47
DUP0827022A	08/27/02	200	200	31	< 0.01	--	0.19	11	< 0.05	NA	46
	05/30/02	200	200	32	< 0.01	1.6	0.14	11	< 0.05	NA	48
DUP0530021C	05/30/02	200	200	32	< 0.01	--	0.15	11	< 0.05	NA	49
	03/12/02	180	180	15	< 0.01	1.1	< 0.1 U	5.6	< 0.05	NA	22
	11/27/01	210	210	33	< 0.01	3.76	0.11	12 J	< 0.05 UJ	NA	47
	08/28/01	210	210	34	< 0.01	3.0	0.11	12	< 0.05	NA	48
	05/17/01	220	220	32	< 0.01 UJ	5.5	0.086 J	12	< 0.05	NA	48
	05/12/99	208	208	32	< 0.05	6.0	< 0.1	NA	NA	10.7 (J12)	48
	02/10/99	139	139	15	< 0.05	5.6	< 0.1	NA	NA	8.24	24
	11/11/98	220	220	32	< 0.05	6.1	< 0.1	NA	NA	11.2	47
	08/13/98	200	200	27	< 0.05	5.3	< 0.1	NA	NA	9.8	36
	04/13/98	220	220	35	< 0.05	5.6	0.1	NA	NA	11	52
	01/06/98	202	202	19	< 0.01 (U9)	6.0	< 0.1	6.58	NA	5.93	30.2
	11/05/97	200	200	25	< 0.05	4.2	< 0.1	NA	NA	8.1	42
	08/06/97	210	210	26	NA	5.7	0.16	NA	NA	NA	42
	05/07/97	210	210	28	NA	4.8	0.1	NA	NA	8.6	39
	02/05/97	200	200	32	NA	5.4	0.1	NA	NA	12	45
	10/30/96	200	200	26	NA	NM	0.13	NA	NA	11	44
	08/05/96	190	190	26	NA	NM	0.13	NA	NA	13	43
	05/23/96	200	200	22	NA	NM	0.13	NA	NA	11	35
	03/11/96	200	200	15	NA	NM	< 0.370 (U4)	1.2	NA	NA	< 7.6 (U4)
	12/18/95	152	152	21	NA	NM	0.5	5.4	NA	NA	26
	09/14/95	200	200	23	NA	NM	< 0.25	NA	NA	9.2	31
	11/08/94	260	260	335	NA	NM	NA	10.9	NA	NA	45.3
	08/28/92	195	193	25	NA	NM	NA	NA	NA	9.8	47.1

Table A-6-1
Results of General Chemistry and Cyanide Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	E335.2/ SW9010/ SW9012	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
LF01GW07	03/20/06	260	260	52	< 0.01	4.22	< 0.1	7.3	< 0.05	NA	45
	03/15/05	120	120	25	< 0.01	0.90	< 0.1	4.5	< 0.05	NA	21
	03/17/04	150	150	48	< 0.01	3.5	< 0.1	7.9	< 0.05	NA	36
	03/13/03	210	210	48	< 0.01	3.8	< 0.1	6.9	< 0.05	NA	35
	12/03/02	230	230	55	< 0.01	4.1	< 0.1	8	< 0.05	NA	48
	08/27/02	220 J-	220 J-	55	< 0.01	NM	0.21	8.3	< 0.05	NA	50
	05/29/02	210	210	54	< 0.01	1.4	0.13	7.5	< 0.05	NA	45
	03/12/02	200	200	53	< 0.01	1.9	< 0.1 U	7.7	< 0.05	NA	40
	11/27/01	240	240	52	< 0.01	3.4	0.12	8.7 J	< 0.05 UJ	NA	49
	08/29/01	230	230	54	< 0.01	3.0	0.11	8.8	< 0.05	NA	49
	05/15/01	240	240	50	< 0.01	8.5	0.15	8.6 J	< 0.05 UJ	NA	53
DUP0515013A	05/15/01	240	240	51	< 0.01	--	0.09 J	8.6 J	< 0.05 UJ	NA	53
LF01GW07CL	05/15/01	230	230	50	ND	--	< 1	39	< 1	NA	52
	05/10/99	259	259	58.4	< 0.05	7.8	< 0.1	NA	NA	7.77	58
	02/08/99	224	224	63.3	< 0.05	7.5 (J35)	< 0.1	NA	NA	8.9	60
	11/09/98	240	240	68.2	< 0.1	8 (J35)	< 0.1	NA	NA	6.92	58
	08/11/98	234	234	46	< 0.05	9.7	< 0.1	NA	NA	7.16	39
	04/09/98	220	220	56	< 0.05	4.9	< 0.1	NA	NA	8.6	59
	01/05/98	234	234	45	< 0.01	7.8	< 0.1	7.21	NA	6.68	46.4
	11/06/97	240	240	53	< 0.05	5.3	< 0.1	NA	NA	9.7	54
	08/07/97	240	240	50	NA	4.4	0.16	NA	NA	NA	53
	05/08/97	240	240	53	NA	4.2	0.11	NA	NA	7	53
	02/06/97	180	180	39	NA	4.5	0.11	NA	NA	9.6	38
	10/31/96	250	250	48	NA	NM	< 0.1	NA	NA	10	54
	08/06/96	240	240	48	NA	NM	0.1	NA	NA	11	63
	05/22/96	240	240	47	NA	NM	0.12	NA	NA	11	56
	03/12/96	242	242	48	NA	NM	0.289	11	NA	NA	64
	12/19/95	238	238	52	NA	NM	0.3	21	NA	NA	68
	09/15/95	250	250	55	NA	NM	< 0.25	NA	NA	12	83
LF02GW01	03/16/06	230	230	76	< 0.01	0.51	< 0.1	0.9	< 0.05	NA	17
	03/15/05	230	230	74	< 0.01	0.40	< 0.1	0.92	< 0.05	NA	16
	03/16/04	200	200	77	< 0.01	0.8	< 0.1	0.98	< 0.05	NA	16
	03/13/03	190	190	67	< 0.01	0.7	< 0.1	0.97	< 0.05	NA	15
	12/03/02	200	200	67	< 0.01	1.5	< 0.1	0.95	< 0.05	NA	14

Table A-6-1
Results of General Chemistry and Cyanide Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	E335.2/ SW9010/ SW9012	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
LF02GW01	08/27/02	190 J-	190 J-	69	< 0.01	1.2	0.17	0.94	< 0.05	NA	15
	05/29/02	190	190	70	< 0.01	1.4	0.13	0.87	< 0.05	NA	15
	03/11/02	190	190	68	< 0.01	0.8	0.087 J	0.97	< 0.05	NA	15
	11/28/01	200	200	73	< 0.01	1.5	0.11	1 J	< 0.05 UJ	NA	15
	08/28/01	200	200	69	< 0.01	0.9	0.086 J	0.97	< 0.05	NA	15
	05/17/01	210	210	68	< 0.01 UJ	2.3	0.082 J	0.94	< 0.05	NA	15
	05/11/99	214	214	78	< 0.05	0.7	< 0.1	NA	NA	0.552	15.1
	02/09/99	196	196	87	< 0.05	0.8	< 0.1	NA	NA	0.986	17
	11/10/98	201	201	85	< 0.1	3.15 (J35)	< 0.1	NA	NA	1	15.9
	08/12/98	196	196	63	< 0.05	1.1	0.108	NA	NA	1.03	11
	04/10/98	190	190	81	< 0.05	0.7 (J34)	0.1	NA	NA	1	16
	01/06/98	193	193	60	< 0.01	1.6	< 0.1	0.908	NA	0.862	13.2
	11/03/97	190	190	71	< 0.05	0.7	< 0.1	NA	NA	0.81	14
	08/04/97	200	200	66	NA	1.5	0.2	NA	NA	NA	14
	05/05/97	200	200	67	NA	1.6	< 0.1	NA	NA	0.71	12
	02/03/97	200 (J29)	200 (J29)	57	NA	0.8	< 0.1	NA	NA	< 0.05 (R9)	15
	10/28/96	200	200	64	NA	NM	< 0.1	NA	NA	1.1	44
	07/31/96	190	190	64	NA	NM	< 0.1	NA	NA	1.3	15
	05/21/96	< 2	< 2	64	NA	NM	< 0.1	NA	NA	1.8	13
	03/04/96	191	191	69	NA	NM	0.27	1.34	NA	NA	15
	12/11/95	208	208	52	NA	NM	< 0.1	7	NA	NA	47
	09/08/95	200	200	65	NA	NM	< 250	NA	NA	1.2	19
	11/09/94	234	234	69.4	<0.005	NM	NA	1.6	NA	NA	16.3
	08/28/92	190	189	60	NA	NM	NA	NA	NA	1.2	15.1
	11/28/90	NA	220	54.2	NA	NM	0.5	NA	NA	1.3	18.9
LF02GW02	03/20/06	480	480	160	< 0.01	0.4	< 0.1	< 0.05	< 0.05	NA	72
	03/15/05	460	460	170	< 0.01	0.90	< 0.1	< 0.05	< 0.05	NA	72
	03/16/04	460	460	190	< 0.01	0.1	< 0.1	< 0.05	< 0.05	NA	79
	03/13/03	440	440	170	< 0.01	0.1	< 0.1	0.06	< 0.05	NA	71
DUP0313032B	03/13/03	450	450	170	< 0.01	--	< 0.1	0.08	< 0.05	NA	82
	12/03/02	480	480	180	< 0.01	0.6	< 0.1	< 0.05	< 0.05	NA	84
DUP1203023A	12/03/02	490	490	180	< 0.01	--	< 0.1	< 0.05	< 0.05	NA	83

Table A-6-1
Results of General Chemistry and Cyanide Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	E335.2/ SW9010/ SW9012	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
LF02GW02	08/27/02	620 J-	620 J-	180	< 0.01	1.3	0.2	< 0.05	< 0.05	NA	84
DUP0827023A	08/27/02	490 J-	490 J-	180	< 0.01	--	0.2	< 0.05	< 0.05	NA	84
	05/29/02	490	490	180	< 0.01	1	0.086 J	< 0.05	< 0.05	NA	86
	03/11/02	520	520	200	< 0.01	0.8	0.045 J	< 0.05	< 0.05	NA	97
DUP0311022B	03/11/02	530	530	200	< 0.01	--	0.051 J	< 0.05	< 0.05	NA	96
LF02GW02CL	03/11/02	510	510	200	< 0.01	--	< 1	< 1	< 1	NA	93
	11/28/01	520	520	210	< 0.01	0.6	0.045 J	< 0.05	< 0.05	NA	96
	08/28/01	520	520	190	< 0.01	1.5	0.071 J	0.14	< 0.05	NA	94
	05/17/01	510	510	190	< 0.01 UJ	1.7	< 0.1	< 0.05	< 0.05	NA	99
	05/12/99	537	537	248	< 0.05	0.4	< 0.1	NA	NA	0.095 (J12)	120
	02/10/99	525	525	279	< 0.05	0.3	< 0.1	NA	NA	< 0.02	130
	11/11/98	540	540	311	< 0.05	1.6	< 0.1	NA	NA	0.059	130
	08/13/98	530	530	220	< 0.05	1.2	< 0.1	NA	NA	< 0.05	90
	04/13/98	510	510	290	< 0.05	0.6	< 0.1	NA	NA	< 0.05	130
	01/07/98	556	556	248	< 0.01	1.6	< 0.1	< 0.05	NA	< 0.05	117
	11/03/97	520	520	260	< 0.05	0.4	< 0.1	NA	NA	< 0.02	110
	08/04/97	610	610	270	NA	1.1	0.17	NA	NA	NA	130
	05/05/97	500	500	230	NA	0.8	< 0.1	NA	NA	< 0.05	85
	02/03/97	540 (J29)	540 (J29)	250	NA	1.7	< 0.1	NA	NA	< 0.05	110
	10/28/96	460	460	210	NA	NM	< 0.1	NA	NA	0.18	82
	07/31/96	470	470	220	NA	NM	0.11	NA	NA	< 0. 5	81
	05/22/96	440	440	200	NA	NM	< 0.1	NA	NA	< 0.05	58
	03/04/96	412	412	209	NA	NM	0.46	< 0.05	NA	NA	64
	12/11/95	221	221	56	NA	NM	0.4	21	NA	NA	54
	09/06/95	370	370	160	NA	NM	< 250	NA	NA	< 0.04	46
	11/09/94	418	418	152	<0.005	NM	NA	1.6	NA	NA	52.7
	09/04/92	330	325	130	NA	NM	NA	NA	NA	0.025	54
	11/29/90	NA	440	114.5	NA	NM	0.9	NA	NA	0.3	54.7

Table A-6-1
Results of General Chemistry and Cyanide Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	E335.2/ SW9010/ SW9012	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
LF02GW04	03/20/06	150	150	46	< 0.01	1.11	< 0.1	8.2	< 0.05	NA	24
	03/15/05	150	150	68	< 0.01	0.80	< 0.1	8.8	< 0.05	NA	29
	03/16/04	260	260	92	< 0.01	0.3	< 0.1	9.5	< 0.05	NA	35
	03/13/03	350	350	98	< 0.01	0.2	< 0.1	2.9	< 0.05	NA	30
	12/03/02	340	340	99	< 0.01	0.3	< 0.1	5.3	< 0.05	NA	25
	08/27/02	360 J-	360 J-	100	< 0.01	1.1	0.19	4.9	0.04 J	NA	28
	05/29/02	360	360	100	< 0.01	1.1	0.13	2.4	< 0.05	NA	28
	03/11/02	190	190	61	< 0.01	0.8	0.11	1.4	< 0.05	NA	35
	11/28/01	350	350	110	< 0.01	0.3	0.073 J	5.4	0.07	NA	27
	08/28/01	340	340	100	< 0.01	1.8	0.091 J	5.9	< 0.05	NA	28
	05/15/01	350	350	100	< 0.01	2.5	0.16	4.5 J	0.08 J	NA	32
	05/12/99	365	365	126	< 0.05	0.4	< 0.1	NA	NA	4.99 (J12)	31
	02/11/99	363	363	140	< 0.05	1.5 (J35)	< 0.1	NA	NA	5.95	41.2
	11/11/98	373	373	148	< 0.05	0.3	< 0.1	NA	NA	5.54	34
	08/13/98	360	360	110	< 0.05	0.6	< 0.1	NA	NA	4.5	27
	04/13/98	400	400	170	< 0.05	2.2	< 0.1	NA	NA	4.8	47
	01/07/98	354	354	96	< 0.01	2.0	< 0.1	5.07	NA	4.76	25.8
	11/04/97	360	360	110	< 0.05	0.3	< 0.1	NA	NA	5.2	25
	08/05/97	390	390	130	NA	0.2	0.17	NA	NA	NA	45
	05/06/97	380	380	130	NA	0.8	< 0.1	NA	NA	3.8	28
	02/04/97	380	380	120	NA	0.7	< 0.1	NA	NA	4.3	30
	11/01/96	390	390	120	NA	NM	< 0.1	NA	NA	6.5	27
	08/01/96	390	390	110	NA	NM	< 0.1	NA	NA	4.7	31
	05/21/96	370	370	110	NA	NM	< 0.1	NA	NA	4.5	23
	03/06/96	373	373	100	NA	NM	0.5	5.5	NA	NA	26
	12/11/95	363	363	130	NA	NM	0.4	6.4	NA	NA	25
	09/11/95	360	360	100	NA	NM	< 250	NA	NA	5.6	30
100GW101	12/05/03	NA	NA	NA	NA	0.7	NA	NA	NA	NA	NA
	08/21/03	NA	NA	NA	NA	1.1	NA	NA	NA	NA	NA
	06/10/03	NA	NA	NA	NA	4.4	NA	NA	NA	NA	NA
	03/13/03	NA	NA	NA	NA	1.8	NA	NA	NA	NA	NA
	12/06/02	NA	NA	NA	NA	3.3	NA	NA	NA	NA	NA

Table A-6-1
Results of General Chemistry and Cyanide Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	E335.2/ SW9010/ SW9012	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
104GW101	12/05/03	NA	NA	NA	NA	1	NA	NA	NA	NA	NA
	08/21/03	NA	NA	NA	NA	1.7	NA	NA	NA	NA	NA
	06/10/03	NA	NA	NA	NA	3.2	NA	NA	NA	NA	NA
104GW101	03/14/03	NA	NA	NA	NA	0.3	NA	NA	NA	NA	NA
	12/06/02	NA	NA	NA	NA	3.8	NA	NA	NA	NA	NA

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001.
The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - The QC laboratory nitrate results have been converted to nitrate as nitrogen (nitrate-N) as other laboratory results are reported.
The QC laboratory reported nitrate as NO3 concentrations (nitrate-NO3) which are 4.43 times higher than nitrate-N concentrations.
mg/L - milligrams per liter
NA - Not analyzed
NM - Not measured
"--" dissolved oxygen measurements were not taken for duplicate and quality control samples.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-6-2
Results of SVOC, PAH, OCP, PCB, Chlorinated Herbicide, and VOC Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	SVOCs		All PAHs	All OCPs and PCBs	All Chlorinated Herbicides	VOCs							
		bis (2-Ethylhexyl)-phthalate	Phenol				Benzene	Bromo-dichloro-methane	Chloroform	Ethyl-benzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8310	SW8270	SW8310	SW8081A/ SW8082	SW8151	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
EPSP01	05/13/99	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	1.3	1.3	ND
	02/10/99	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	12/04/98	< 10	< 10	ND	ND	ND	< 0.5	0.6	0.8	< 0.5	NA	< 0.5	< 0.5	ND
	04/17/98	< 10	< 10	ND (U15)	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	03/09/98	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	01/08/98	< 10	< 10	ND	ND	ND (U6)	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	11/09/94	17.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/04/92	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LF01GW01	10/29/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	08/01/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	05/23/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	03/08/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	12/15/95	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	09/13/95	< 10	< 10	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	11/08/94	7.57	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/26/92	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LF01GW02	10/29/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	08/01/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	05/23/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	0.7	< 0.5	ND
	03/08/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	12/15/95	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5	ND
	09/13/95	< 10	21	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
LF01GW03	10/30/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	08/05/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	05/22/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	03/08/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	12/15/95	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	09/13/95	< 10	< 10	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	11/08/94	5.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/10/92	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table A-6-2
Results of SVOC, PAH, OCP, PCB, Chlorinated Herbicide, and VOC Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	SVOCs		All PAHs	All OCPs and PCBs	All Chlorinated Herbicides	VOCs							
		bis (2-Ethylhexyl)-phthalate	Phenol				Benzene	Bromo-dichloro-methane	Chloroform	Ethyl-benzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8310	SW8270	SW8310	SW8081A/ SW8082	SW8151	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
LF01GW04	10/30/96	46 (J30)	< 10	ND	ND	ND	< 0.5	< 0.5	1	< 0.5	NA	< 0.5	< 0.5	ND
	08/05/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	1.1	< 0.5	NA	< 0.5	< 0.5	ND
	05/21/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	0.8	< 0.5	NA	< 0.5	< 0.5	ND
	03/11/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	12/18/95	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	09/14/95	< 10	< 10	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	11/08/94	4.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/10/92	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LF01GW05	10/31/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	08/06/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	05/22/96	< 10	< 10	ND	ND	ND (U15)	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	03/12/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	12/19/95	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	09/15/95	< 10	< 10	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	11/08/94	5.81	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/10/92	< 1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LF01GW06	03/12/02	NA	NA	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/17/01	NA	NA	ND	ND	ND	< 0.5	< 0.5	0.7	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/10/99	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 10 U	< 0.5	< 0.93	NA
	01/06/98	< 10	< 10	ND	ND	ND	NA	< 0.5	0.74	NA	NA	< 0.5	< 0.5	NA
	10/30/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	0.8	< 0.5	NA	< 0.5	< 0.5	ND
	08/05/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	0.8	< 0.5	NA	< 0.5	< 0.5	ND
	05/23/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	0.9	< 0.5	NA	< 0.5	< 0.5	ND
	03/11/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	12/18/95	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	09/14/95	21 (J30)	< 10	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	11/08/94	5.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/28/92	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table A-6-2
Results of SVOC, PAH, OCP, PCB, Chlorinated Herbicide, and VOC Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	SVOCs		All PAHs	All OCPs and PCBs	All Chlorinated Herbicides	VOCs							
		bis (2-Ethylhexyl)-phthalate	Phenol				Benzene	Bromo-dichloro-methane	Chloroform	Ethyl-benzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8310	SW8270	SW8310	SW8081A/ SW8082	SW8151	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
LF01GW07	10/31/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	08/06/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	05/22/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	03/12/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	12/19/95	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	09/15/95	< 10	< 10	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
LF02GW01	10/28/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	07/31/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	3.1	< 0.5	ND
	05/21/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	03/04/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	12/11/95	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	09/08/95	< 9.6	< 9.6	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	11/09/94	13.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/28/92	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LF02GW02	03/11/02	NA	NA	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0311022B	03/11/02	NA	NA	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF02GW02CL	03/11/02	NA	NA	ND	ND	NA	< 0.5	< 0.5	< 1 UJ	< 0.5	< 5 R	< 0.5	< 1	ND
	05/17/01	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/10/99	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 10 U	< 0.5	< 0.93	ND
	01/07/98	< 10	< 10	ND	ND	ND	NA	< 0.5	< 0.5	NA	NA	< 0.5	< 0.5	ND
	10/28/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	07/31/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	05/22/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	03/04/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	12/11/95	14 (J30)	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	09/06/95	< 10	< 10	ND	ND (U6)	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	11/09/94	2.36	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/04/92	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table A-6-2
Results of SVOC, PAH, OCP, PCB, Chlorinated Herbicide, and VOC Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 100 and 104
Presidio of San Francisco, California

Well Name	Sample Date	SVOCs		All PAHs	All OCPs and PCBs	All Chlorinated Herbicides	VOCs							
		bis (2-Ethylhexyl)-phthalate	Phenol				Benzene	Bromo-dichloro-methane	Chloroform	Ethyl-benzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8310	SW8270	SW8310	SW8081A/ SW8082	SW8151	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
LF02GW04	11/01/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	08/01/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	05/21/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	03/06/96	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	12/11/95	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
	09/11/95	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	ND
100GW101	12/05/03	NA	NA	NA	NA	NA	< 0.5	NA	NA	< 0.5	< 2	< 0.5	< 0.5	NA
DUP1205032A	12/05/03	NA	NA	NA	NA	NA	< 0.5	NA	NA	< 0.5	2.5	< 0.5	< 0.5	NA
100GW101CL	12/05/03	NA	NA	NA	NA	NA	< 0.5	NA	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	08/21/03	NA	NA	NA	NA	NA	< 0.5	NA	NA	< 0.5	3.5 C	< 0.5	< 0.5	NA
	06/10/03	NA	NA	NA	NA	NA	< 0.5	NA	NA	< 0.5	< 2	< 0.5	1.2	NA
	03/13/03	NA	NA	NA	NA	NA	< 0.5	NA	NA	< 0.5	7.4	< 0.5	< 0.5	NA
	12/06/02	NA	NA	NA	NA	NA	< 0.5	NA	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	10/10/02	NA	NA	NA	NA	NA	0.8	NA	NA	0.6	< 0.16	< 0.48	1.4	NA
104GW101	12/05/03	NA	NA	NA	NA	NA	< 0.5	NA	NA	< 0.5	2.6	< 0.5	< 0.5	NA
	08/21/03	NA	NA	NA	NA	NA	< 0.5	NA	NA	< 0.5	2.1 C	< 0.5	< 0.5	NA
	06/10/03	NA	NA	NA	NA	NA	< 0.5	NA	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	03/14/03	NA	NA	NA	NA	NA	< 0.5	NA	NA	< 0.5	5 C	< 0.5	< 0.5	NA
	12/06/02	NA	NA	NA	NA	NA	< 0.5	NA	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	10/10/02	NA	NA	NA	NA	NA	2.6	NA	NA	2.1	< 0.16	2.9	4.7	NA

Notes

1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.

µg/L - micrograms per liter
NA - Not analyzed
ND - Not detected
PAHs - Polycyclic aromatic hydrocarbons
OCPs - Organochlorine pesticides
PCBs - Polychlorinated biphenyls
VOC - Volatile organic compound
MTBE - Methyl tertiary-butyl ether
SVOCs - Semivolatile organic compounds
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-6-3
Results of Total and Dissolved Metals Analyses
Fill Site 1, Landfill 2, and El Polin Spring
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7196	SW7199	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW7470	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
EPSP01	03/16/06	< 100 UJ	< 1	< 5	75	< 2	< 1	15,000	30	< 10	< 1	NA	NA	< 100	< 3	87,000	24	NA	< 20	< 500	< 5	< 1	31,000 J	< 1	< 10	< 20	420 J
(Total)	03/16/06	< 100	< 1	< 5	75	< 2	< 1	13,000	28	< 10	1.2	NA	NA	180	< 3	74,000 J	65	NA	< 20	< 500 UJ	< 5	< 1	27,000	< 1	< 10	< 20	NA
	11/30/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	490
DUP1130052A	11/30/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370
EPSP01CL	11/30/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	518
	08/30/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	450
DUP0830052C	08/30/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	460
EPSP01CL	08/30/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	510
	05/26/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370
DUP0526052B	05/26/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	360
EPSP01CL	05/26/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	558
	03/15/05	180	< 1	< 5	85	< 2	< 1	15,000	32	< 10	1.3	NA	NA	510	< 3	87,000	91	NA	24	< 500	< 5	< 1	32,000	< 1	< 10	< 20	230
(Total)	03/15/05	< 500	< 1	< 5	82	< 2	< 1	15,000	31	< 10	1.1	NA	NA	450	< 3	86,000	83	NA	22	< 500	< 5	< 1	31,000	< 1	< 10	< 20	NA
	12/15/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	690
DUP1215042B	12/15/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	560 J
EPSP01CL	12/15/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	537
	08/11/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	450
DUP0811041B	08/11/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	480
EPSP01CL	08/11/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	584
	05/28/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	480
DUP0528041B	05/28/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	480
EPSP01CL	05/28/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	480
(Total)	03/15/04	< 100	< 1	< 5	79	< 2	< 1	15,000	30	< 10	< 1	NA	NA	230	< 3	83,000	68	NA	< 20	< 500	< 5	< 1	31,000	< 1	< 10	< 20	470
	12/05/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	520
DUP1205031B	12/05/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	500
EPSP01CL	12/05/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	490
	08/14/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	480
	06/06/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	490
	03/13/03	< 100	< 1	< 1	79	< 1	< 1	15,000	29	< 1	< 1	NA	NA	< 100	< 3	81,000	23	NA	5.3	< 500	< 5	< 1 UJ	34,000 J-	< 1	< 10	< 10	440
	12/03/02	< 100	1.8	< 1	84	< 1	< 1	15,000	27 J	< 1	< 1	NA	NA	< 100	< 3	77,000	23	NA	3	< 500	< 5	< 1 UJ	30,000	< 1	< 10	< 10	570
	08/27/02	< 100	< 1	< 1	430	< 1	< 1	15,000	32 J	< 1	< 1	NA	NA	< 100	< 3	80,000	22	NA	3.3	< 500	< 5	< 1 UJ	32,000	< 1	< 10	79	400
	06/05/02	< 100	< 1	< 1	510	< 1	< 1	15,000	31	< 1	< 1	NA	NA	< 100	< 3	88,000	20	NA	4.7	510	< 5	< 1	35,000	< 1	< 10	78	420
	03/11/02	< 100	1.7	< 1	580	< 1	< 1	15,000	26	< 1	< 1	NA	NA	< 100	< 3	90,000	28	NA	10	520	< 5	< 1 UJ	36,000	< 1	< 10	78	450
	11/28/01	< 100	1.1	< 1	460	< 1	< 1	16,000	40 J	< 1	< 1	NA	NA	< 100	< 3	88,000	25	NA	4.2	810	< 5	< 1	35,000	< 1	< 10	77	460
	08/29/01	< 100	< 1	< 1	350 J+	< 1	< 1	15,000	36	< 1	7.4	NA	NA	120	< 3	91,000	28	NA	4.5	< 500	< 5	< 1 UJ	36,000	< 1	< 10	72	470
	05/18/01	< 100	1.7	< 1	280	< 1	< 1	< 500	36 J	< 1	1	NA	NA	170	< 3	83,000	25	NA	4.1	< 500	< 5	< 1	33,000	< 1	< 10	65	480
	05/13/99	< 100	< 5	< 5	75.1	< 4	< 2	14,300	30	< 10	< 10	NA	NA	< 100	< 3	74,500	35.1	NA	< 20	< 5,000	< 5	< 2	29,300	< 2	< 10	< 20	514
	02/10/99	< 100	< 5	< 5	73.5	< 4	< 2	14,800	26.3	< 10	13.1	NA	NA	129	< 3	79,500	36.4	NA	< 20	< 5,000	< 5	< 2	31,700	< 2	< 10	< 20	404
	12/04/98	< 100	< 5	< 5	74	< 4	< 2	13,900	27.9	< 10	< 12.2 (U1)	NA	NA	< 100	< 3	76,700	67.4	< 0.2	< 20	< 5,000	< 5	< 2	28,700	< 2	< 10	< 20	524
	04/17/98	< 100	< 5	< 5	66.6	< 4	< 2	13,800	28.1	< 10	< 10	NA	NA	< 100	< 3	73,500	38.7	< 0.2	< 20	< 5,000	< 5	< 2	28,200	< 2	< 10	< 20	389
	03/09/98	< 100	< 5	< 5	62.8	< 4	< 2	12,900	25	< 10	< 10	NA	NA	< 100	< 3	70,700	20	< 0.2	< 20	< 5,000	< 5	< 2	27,400	< 2	< 10	< 20	446
	01/08/98	< 100	< 5	< 5	68.7	< 4	< 2	13,900	25.5	< 10	< 10	14	22.4	< 100	< 3	77,800	47.9	< 0.2	< 20	< 5,000	< 5	< 2	31,700	< 2	< 10	< 20	522
	11/09/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	456
	09/04/92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	484
LF01GW01	03/08/06	< 100	< 1	< 5	100	< 2	< 1	43,000	< 10	< 10	1.8	NA	NA	< 100	< 3	57,000	< 10	NA	< 20	2,800	< 5	< 1	27,000	< 1	< 10	< 20	520
DUP0308063C	03/08/06	< 100	< 1	< 5	99	< 2	< 1	42,000	< 10	< 10	1.5	NA	NA	< 100	< 3	56,000	< 10	NA	< 20	2,700	< 5	< 1	27,000	< 1	< 10	< 20	480
LF01GW01CL	03/08/06	< 100 U	< 2 U	< 2 U	130	< 1 U	< 1 U	55,000	< 10 U	< 1 U	< 2 U	NA	NA	< 100 U	< 1 U	74,000	< 10 U	NA	8	< 5000 U	< 2 U	< 1 U	35,000	< 1 U	< 10 U	< 20 U	490
	03/17/05	< 100	< 1	< 5	95	< 2	< 1	43,000 J	< 10	< 10	1.1	NA	NA	150	< 3	47,000	< 10	NA	< 20	3600	< 5	< 1	28,000	< 1	< 10	< 20	490 J-
DUP0317051A	03/17/05	< 100	< 1	< 5	93	< 2	< 1	42,000 J	< 10	< 10	1.1	NA	NA	140	< 3	48,000	< 10	NA	< 20	3,500	< 5	< 1	28,000	< 1	< 10	< 20	460 J-
LF01GW01CL	03/17/05	< 100 U	< 2 U	< 2 U	96.8	< 1 U	< 1 U	44,900	< 10 U	< 1 U	< 2 U	NA	NA	< 100 U	< 1 U	53,700	< 10 U	NA	5.89	< 5000 UN	< 2 U	< 1 U	32,100 J	< 1 U	< 10 U	< 20 U	408
	03/16/04	< 100	< 1	< 5	110 J-	< 2	< 1	51,000	< 10	< 10	13	NA	NA	110	< 3	52,000	< 10	NA	< 20	4,800	< 5	< 1	33,000	< 1	< 10	< 20	390
	03/13/03	< 100	< 1	< 1	85	< 1	< 1	35,000	1.9	< 1	1	NA	NA	< 100	< 3	38,000	< 10	NA	5.7	3,500	< 5	< 1 UJ	32,000 J-	< 1	< 10	< 10	250

Table A-6-3
Results of Total and Dissolved Metals Analyses
Fill Site 1, Landfill 2, and El Polin Spring
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7196	SW7199	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW7470	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
LF01GW01	12/09/02	< 100	< 1	< 1	120	< 1	< 1	36,000	1.4	< 1	1.2	NA	NA	140	< 3	34,000	92 J	NA	12	8,900	< 5	< 1 UJ	29,000	< 1	< 10	13 J+	350
DUP1209022D	12/09/02	< 100	< 1	< 1	120	< 1	< 1	37,000	1.7	< 1	< 1	NA	NA	120	< 3	35,000	67 J	NA	11	8,600	< 5	< 1 UJ	30,000	< 1	< 10	< 10	360
LF01GW01CL	12/09/02	< 100	< 1	< 2 U	130	< 1	< 1	42,000 J+	< 5	< 1	6.4	NA	NA	< 150	< 3	37,000	58	NA	11	9,800	< 5	< 1	34,000	< 1	< 10	< 10	320
	08/27/02	< 100	< 1	< 1	390	< 1	< 1	39,000	2.5 J	< 1	< 1	NA	NA	< 100	< 3	35,000	22	NA	9.9	8,100	< 5	< 1 UJ	31,000	< 1	< 10	100	320
	05/29/02	< 100	< 1	< 1	510	< 1	< 1	39,000	< 1	< 1	< 1	NA	NA	< 100	< 3	39,000	45	NA	7.8	3,900	< 5	< 1 UJ	36,000	< 1	< 10	210	560
	03/11/02	< 100	< 1	< 1	280	< 1	< 1	45,000	< 1	< 1	1	NA	NA	110	< 3	54,000	< 10	NA	7.1	3,600	< 5	< 1 UJ	35,000	< 1	< 10	49	390
DUP0311022A	03/11/02	< 100	< 1	< 1	250	< 1	< 1	45,000	< 1	< 1	< 1	NA	NA	110	< 3	54,000	< 10	NA	6.7	3,300	< 5	< 1 UJ	35,000	< 1	< 10	29	400
LF01GW01CL	03/11/02	< 200	0.34 J	< 2	240	< 2	0.13 J	42,000	< 2	0.62 J	4.2 B	NA	NA	18 J	< 5	48,000	9.7	NA	6.9	3,600	7.4	< 1	33,000	< 1	< 5	34 B	450 J-
	11/27/01	< 100	1.5	< 1	520	< 1	< 1	35,000	1.9	< 1	1.3	NA	NA	< 100	< 3	32,000	140	NA	13	8,500	< 5	< 1	32,000	< 1	< 10	170	340
	08/28/01	< 100	1.3	< 1	620	< 1	< 1	37,000	< 1	< 1	2.6	NA	NA	180	< 3	33,000	150	NA	14	7,900	< 5	< 1	35,000	< 1	< 10	170	320
	05/16/01	< 100	< 1	< 1	210	< 1	< 1	< 10,000 R	1.1 J	< 1	1.1	NA	NA	350	< 3	54,000	< 10	NA	7	4,000 J	< 5	< 1	36,000	< 1	< 10	33	420
	05/10/99	< 100	< 5	< 5	137	< 4	< 2	46,800	< 10	< 10	< 10	NA	NA	< 100	< 3	40,800	< 10	NA	< 20	7,320	< 5	< 2	30,100	< 2	< 10	< 20	418
	02/08/99	< 100	< 5	< 5	151	< 4	< 2	46,400	< 10	< 10	< 10	NA	NA	< 100	< 3	39,800	16.6	NA	< 20	7,520	< 5	< 2	27,100	< 2	< 10	< 20	421
	11/09/98	< 100	< 5	< 5	169	< 4	< 2	48,300	< 10	< 10	20.3	NA	NA	< 100	< 3	38,900	14.5	< 0.2	< 20	9,850	< 5	< 2	42,600	< 2	< 10	87.7	412
	08/11/98	< 100	< 10	< 5	140	< 2	< 2	44,400	< 5	< 5	< 10	NA	NA	< 50	< 5	40,100	8.7	< 0.5	12.1	7,650	< 10	< 10	32,200	< 10	< 10	11.9	417
	04/09/98	< 100	< 5	< 5	120	< 4	< 2	45,000	< 10	< 10	11	NA	NA	< 100	< 3	50,000	17	< 0.2	30	5,800	< 5	< 2	32,000	< 2	< 10	40	410
	01/05/98	< 100	< 5	< 5	132	< 4	< 2	48,200	< 10	< 10	< 10	< 10	1.3	< 100	< 3	43,700	< 10	< 0.2	< 20	7,800	< 5	< 2	33,600	< 2	< 10	< 20	466
	11/05/97	< 100	< 5	< 5	150	< 4	< 2	40,000	< 10	< 10	< 10	NA	NA	< 100	< 3	38,000	< 10	< 0.2	< 20	9,200	< 5	< 2	32,000	< 2	< 10	< 20	490
	08/06/97	< 100	< 5	< 5	150	< 4	< 2	46,000	< 10	< 10	< 10	NA	NA	< 100	< 3	40,000	< 10	< 0.2	< 20	8,800	< 5	< 2	31,000	< 2	< 10	< 20	400
	05/07/97	< 100	< 5	< 5	130	< 4	< 2	42,000	< 10	< 10	< 10	NA	NA	< 100	< 3	40,000	< 10	< 0.2	< 20	6,100	< 5	< 2	28,000	< 2	< 10	< 20	450
	02/06/97	< 100	< 5	< 5	140	< 4	< 2	53,000	< 10	< 10	< 10	NA	NA	< 100	3.6	48,000	< 10	< 0.2	< 20	8,000	< 5	< 2	31,000	< 2	< 10	20	400 (J29)
	10/29/96	< 100 U	< 5 U	5.8	150	< 4 U	< 2 U	48,000	< 10 U	< 10 U	< 10 U	NA	NA	< 100 U	< 3 U	40,000	33	< 0.2 U	< 20 U	9,300	< 5 U	< 2 U	32,000	< 2 U	< 10 U	< 20 U	NS
	08/01/96	< 100 U	< 5 U	< 5 U	160	< 2 U	< 0.5 U	50,000	< 1 U	< 10 U	8	NA	NA	< 100 U	< 1 U	44,000	33	< 0.2 U	12	9,300	< 5 U	< 0.5 U	36,000	< 2 U	< 10 U	< 20 U	NS
	05/23/96	< 100 U	< 5 U	< 5 U	150	< 2 U	< 0.5 U	55,000	< 1 U	< 10 U	5	NA	NA	< 100 U	< 1 U	51,000	13	< 0.2 U	8	7,200	< 5 U	< 0.5 U	35,000	< 2 U	< 10 U	< 20 U	NS
	03/08/96	< 100 U	< 5 U	< 5 U	160	< 2 U	< 0.5 U	57,600	< 1 U	< 10 U	< 1 U	NA	NA	< 100 U	< 1 U	51,500	13	< 0.2 U	17	8,570	< 5 U	< 0.5 U	30,000	< 2 U	< 10 U	< 20 U	NS
	12/15/95	< 100	< 5	< 5	150	< 2	< 0.5	47,100	< 1	< 10	< 1	NA	NA	< 100	< 1	40,700	17	< 0.2	10	9,610	< 5	< 0.5	33,000	< 2	< 10	< 20	NS
	09/13/95	< 200 U	< 60 U	< 5 U	150	< 2 U	< 2 U	43,000	< 10 U	< 20 U	< 10 U	NA	NA	< 100 U	< 3 U	39,000	29	< 0.2 U	< 20 U	8,600	10	< 5 U	36,000	< 5 U	< 10 U	45	NS
	11/08/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	494
	08/26/92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	485
LF01GW02	03/16/06	< 100 UJ	< 1	< 5	62	< 2	< 1	36,000	17	< 10	< 1	NA	NA	< 100	< 3	70,000	< 10	NA	< 20	4,000	< 5	< 1	47,000 J	< 1	< 10	< 20	580 J
	03/15/05	< 100	< 1	< 5	63	< 2	< 1	33,000	16	< 10	< 1	NA	NA	< 100	< 3	68,000	< 10	NA	< 20	5,900	< 5	< 1	59,000	< 1	< 10	< 20	530
	03/16/04	< 100	< 1	< 5	68 J-	< 2	< 1	40,000	28	< 10	< 1	NA	NA	< 100	< 3	91,000	< 10	NA	< 20	3,200	< 5	< 1	67,000	< 1	< 10	< 20	610
	03/13/03	< 100	< 1	< 1	59	< 1	< 1	31,000	28	< 1	< 1	NA	NA	< 100	< 3	71,000	< 10	NA	7.9	4,900	< 5	< 1 UJ	55,000 J-	< 1	< 10	10	420
	12/03/02	< 100	< 1	< 1	56	< 1	< 1	30,000	12 J	< 1	< 1	NA	NA	< 100	< 3	54,000	< 10	NA	11	4,500	< 5	1.4 J-	44,000	< 1	< 10	< 10	400
	08/27/02	< 100	< 1	< 1	380	< 1	< 1	29,000	16 J	< 1	< 1	NA	NA	< 100	< 3	55,000	< 10	NA	9.2	4,700	< 5	< 1 UJ	51,000	< 1	< 10	120	450
	05/29/02	< 100	< 1	< 1	450	< 1	< 1	33,000	18	< 1	< 1	NA	NA	< 100	< 3	73,000	< 10	NA	8.4	4,200	< 5	< 1 UJ	58,000	< 1	< 10	150	520
	03/11/02	< 100	< 1	< 1	400	< 1	< 1	34,000	30	< 1	< 1	NA	NA	< 100	< 3	86,000	< 10	NA	7.5	3,400	< 5	< 1 UJ	61,000	< 1	< 10	67	520
	11/27/01	< 100	2.3	< 1	580	< 1	< 1	34,000	33 J	< 1	1.4	NA	NA	< 100	< 3	78,000	< 10	NA	9.2	3,900	< 5	< 1	60,000	< 1	< 10	170	580
	08/28/01	< 100	1.3	< 1	700	< 1	< 1	34,000	32	< 1	3.8	NA	NA	160	< 3	79,000	< 10	NA	8	3,400	< 5	< 1	60,000	< 1	< 10	160	480
DUP0828012A	08/28/01	< 100	< 1	< 1	140	< 1	< 1	31,000	31	< 1	1.3	NA	NA	140	< 3	77,000	< 10	NA	8.1	4,200	< 5	< 1	55,000	< 1	< 10	42	530
	05/17/01	< 100	1.2 J	< 1 UJ	510 J	< 1 UJ	< 1 UJ	32,000 J	45 J	< 1 UJ	1.4 J	NA	NA	< 100 UJ	< 3 UJ	83,000	< 10 UJ	NA	8.4 J	3,500 J	< 5 UJ	< 1 UJ	66,000	< 1 UJ	< 10 UJ	310 J	650
DUP0517011A	05/17/01	< 100	< 1 UJ	< 1 UJ	410 J	< 1 UJ	< 1 UJ	34,000 J	46 J	< 1 UJ	< 1 UJ	NA	NA	< 100 UJ	< 3 UJ	86,000	< 10 UJ	NA	8.1 J	3,700 J	< 5 UJ	< 1 UJ	65,000	< 1 UJ	< 10 UJ	72 J	560
	05/11/99	< 100	< 5	< 5	52.8	< 4	< 2	27,000	36.4	< 10	< 10	NA	NA	< 100	< 3	56,800	< 10	NA	< 20	< 5,000	< 5	< 2	46,200	< 2	< 10	< 20	482
	02/09/99	< 100	< 5	< 5	55.5	< 4	< 2	29,700	24.7	< 10	< 10	NA	NA	< 100	< 3	52,000	< 10	NA	< 20	< 5,000	< 5	< 2	41,900	< 2	< 10	22.2	583
	11/10/98	169	< 5	< 5	53.1	< 4	< 2	27,200	28.8	< 10	47.3	NA	NA	215	3.2	56,200	28.3	< 0.2	< 20	< 5,000	< 5	< 2	46,600	< 2	< 10	51.3	394
	08/12/98	< 100	< 5	< 5	56.2	< 4	< 2	29,800	21.3	< 10	< 10	NA	NA	< 100	< 3	52,000	< 10	< 0.2	< 20	5,810	< 5	< 2	42,200	< 2	< 10	< 20	481
	04/10/98	< 100	< 5	< 5	72	< 4	< 2	31,000	34	< 10	< 10	NA	NA	< 100	< 3	64,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	48,000	< 2	< 10	< 20	470
	01/06/98	< 100	< 5	< 5	48	< 4	< 2	25,700	40.4	< 10	< 10	38	34.5	< 100	< 3	61,200	< 10	< 0.2	< 20	< 5,000	< 5	< 2	52,000	< 2	< 10	263	531
	11/04/97	< 100	< 5	< 5	55	< 4	< 2	29,000	22	< 10	< 10	NA	NA	< 100	< 3	63,000	< 10	< 0.2	< 20	5,700	< 5	< 2	47,000	< 2	< 10	< 20	530

Table A-6-3
Results of Total and Dissolved Metals Analyses
Fill Site 1, Landfill 2, and El Polin Spring
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7196	SW7199	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW7470	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
LF01GW02	08/05/97	< 100	< 5	< 5	53	< 4	< 2	32,000	20	< 10	< 10	NA	NA	< 100	< 3	63,000	< 10	< 0.2	< 20	5,000	< 5	< 2	40,000	< 2	< 10	< 20	470
	05/06/97	< 100	< 5	< 5	50	< 4	< 2	24,000	25	< 10	< 10	NA	NA	< 100	< 3	63,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	45,000	< 2	< 10	20	540
	02/04/97	< 100	< 5	< 5	46	< 4	< 2	25,000	24	< 10	< 10	NA	NA	< 100	< 3	62,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	50,000	< 2	< 10	< 20	510 (J29)
	10/29/96	< 100 U	< 5 U	< 5 U	57	< 4 U	< 2 U	30,000	26	< 10 U	< 10 U	NA	NA	< 100 U	< 3 U	72,000	< 10 U	< 0.2 U	< 20 U	< 5,000 U	< 5 U	< 2 U	53,000	< 2 U	< 10 U	< 20 U	NS
	08/01/96	< 100 U	< 5 U	< 5 U	59	< 2 U	< 0.5 U	32,000	19	< 10 U	4	NA	NA	< 100 U	< 1 U	81,000	< 10 U	< 0.2 U	11	< 5,000 U	< 5 U	< 0.5 U	54,000	< 2 U	< 10 U	< 20 U	NS
	05/23/96	< 100 U	< 5 U	< 5 U	60	< 2 U	< 0.5 U	32,000	21	< 10 U	4	NA	NA	< 100 U	< 1 U	83,000	< 10 U	< 0.2 U	9	< 5,000 U	< 5 U	< 0.5 U	50,000	< 2 U	< 10 U	< 20 U	NS
	03/08/96	< 100 U	< 5 U	< 5 U	55	< 2 U	< 0.5 U	36,100	21	< 10 U	< 1 U	NA	NA	< 100 U	1	87,000	< 10 U	< 0.2 U	10	< 5,000 U	< 5 U	< 0.5 U	41,000	< 2 U	< 10 U	< 20 U	NS
	12/15/95	< 100	< 5	< 5	56	< 2	2.9	37,300	14	< 10	1	NA	NA	< 100	< 1	70,100	< 10	< 0.2	11	< 5,000	< 5	< 0.5	43,000	< 2	< 10	< 20	NS
	09/13/95	< 200 U	< 60 U	< 5 U	45	< 2 U	< 2 U	28,000	13	< 20 U	< 10 U	NA	NA	< 100 U	< 3 U	63,000	< 10 U	< 0.2 U	< 20 U	2,500	7.8	< 5 U	43,000	< 5 U	< 10 U	26	NS
LF01GW03	03/20/06	< 100	< 1	< 5	130	< 2	< 1	20,000	43	< 10	< 1	NA	NA	< 100	< 3	84,000	< 10	NA	< 20	2,200	< 5	< 1	58,000	< 1	< 10	< 20	590
	03/15/05	< 100	< 1	< 5	150	< 2	< 1	21,000	31	< 10	< 1	NA	NA	< 100	< 3	89,000	< 10	NA	< 20	750	< 5	< 1	58,000	< 1	< 10	< 20	570
	03/17/04	< 100	< 1	< 5	130	< 2	< 1	26,000	33	< 10	< 1	NA	NA	< 100	< 3	100,000	< 10	NA	< 20	880	< 5	< 1 UJ	65,000	< 1	< 10	< 20	650
	03/13/03	< 100	< 1	2.2	140	< 1	< 1	24,000	33	< 1	< 1	NA	NA	< 100	< 3	95,000	< 10	NA	2.6	2,500	< 5	< 1 UJ	62,000 J-	< 1	< 10	< 10	550
	12/03/02	< 100	< 1	2.6	120	< 1	< 1	21,000	47 J	< 1	< 1	NA	NA	< 100	< 3	81,000	< 10	NA	2.2	670	< 5	< 1 UJ	56,000	< 1	< 10	< 10	530
	08/27/02	< 100	< 1	1.9	490	< 1	< 1	20,000	53 J	< 1	< 1	NA	NA	< 100	< 3	87,000	< 10	NA	2.7	920	< 5	< 1 UJ	58,000	< 1	< 10	120	500
	05/29/02	< 100	1	2.6	450	< 1	< 1	22,000	41	< 1	< 1	NA	NA	< 100	< 3	92,000	< 10	NA	1.5	1,400	< 5	< 1 UJ	64,000	< 1	< 10	110	650
	03/12/02	< 100	< 1	2.5	320	< 1	< 1	28,000	36	< 1	< 1	NA	NA	< 100	< 3	110,000	< 10	NA	2.9	2,200	< 5	< 1 UJ	70,000	< 1	< 10	23	590
	11/27/01	< 100	1.4	3.6	640	< 1	< 1	22,000	55 J	< 1	1.4	NA	NA	760	< 3	93,000	< 10	NA	2.8	1,300	< 5	< 1	65,000	< 1	< 10	120	550
	08/29/01	< 100	1.2	2.9	350 J+	< 1	< 1	21,000	50	< 1	1	NA	NA	< 100	< 3	94,000	< 10	NA	2.4	990	< 5	< 1 UJ	64,000	< 1	< 10	100	550
	05/17/01	< 100	1.4 J	3.3 J	570 J	< 1 UJ	< 1 UJ	27,000 J	47 J	< 1 UJ	1.4 J	NA	NA	< 100 UJ	< 3 UJ	120,000	< 10 UJ	NA	2.4 J	1,300 J	< 5 UJ	< 1 UJ	75,000	< 1 UJ	< 10 UJ	86 J	640
	05/10/99	< 100	< 5	< 5	113	< 4	< 2	23,900	45.5	< 10	< 10	NA	NA	< 100	< 3	83,500	< 10	NA	< 20	< 5,000	< 5	< 2	59,600	< 2	< 10	21.4	580
	02/08/99	< 100	< 5	< 5	123	< 4	< 2	24,000	42.6	< 10	< 10	NA	NA	< 100	< 3	85,300	< 10	NA	< 20	< 5,000	< 5	< 2	59,700	< 2	< 10	< 20	660
	11/09/98	< 100	< 5	< 5	131	< 4	< 2	26,100	43.3	< 10	12	NA	NA	122	6	88,400	< 10	< 0.2	< 20	< 5,000	< 5	4.9	66,500	< 12 (U1,U23)	< 10	26.5	3,790 (R23)
	08/11/98	< 100	< 5	< 5	120	< 4	< 2	23,000	42	< 10	< 10	NA	NA	< 100	3.2	87,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	60,000	< 2	< 10	< 20	560
	04/09/98	< 100	< 5	< 5	120	< 4	< 2	23,000	45	< 10	12	NA	NA	< 100	< 3	86,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	59,000	< 2	< 10	21	580
	01/05/98	< 100	< 5	< 5	97.7	< 4	< 2	21,800	47.1	< 10	< 10	45.0	38.9	< 100	< 3	81,400	< 10	< 0.2	< 20	< 5,000	< 5	< 2	54,600	< 2	< 10	161	601
	11/05/97	< 100	< 5	< 5	100	< 4	< 2	22,000	49	< 10	< 10	NA	NA	< 100	< 3	82,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	58,000	< 2	< 10	< 20	590
	08/06/97	< 100	< 5	< 5	110	< 4	< 2	24,000	46	< 10	< 10	NA	NA	< 100	< 3	82,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	53,000	< 2	< 10	< 20	520
	05/07/97	< 100	< 5	< 5	110	< 4	< 2	22,000	40	< 10	< 10	NA	NA	< 100	< 3	82,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	52,000	< 2	< 10	37	600
	02/05/97	< 100	< 5	< 5	100	< 4	< 2	21,000	34	< 10	18	NA	NA	< 100	11	75,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	56,000	< 2	< 10	58	450 (J29)
	10/30/96	< 100 U	< 5 U	9.3	110	< 4 U	< 2 U	24,000	43	< 10 U	< 10 U	NA	NA	< 100 U	< 3 U	86,000	< 10 U	< 0.2 U	< 20 U	< 5,000 U	< 5 U	< 2 U	54,000	< 2 U	< 10 U	< 20 U	NS
	08/05/96	< 100 U	< 5 U	< 5 U	98	< 2 U	< 0.5 U	23,000	44	< 10 U	8	NA	NA	< 100 U	< 1 U	76,000	< 10 U	< 0.2 U	5	< 5,000 U	< 5 U	< 0.5 U	53,000	< 2 U	< 10 U	24	NS
	05/22/96	< 100 U	< 5 U	< 5 U	100	< 2 U	< 0.5 U	22,000	39	< 10 U	1	NA	NA	< 100 U	< 1 U	84,000	< 10 U	< 0.2 U	< 5 U	< 5,000 U	< 5 U	< 0.5 U	56,000	< 2 U	< 10 U	< 20 U	NS
	03/08/96	< 100 U	< 5 U	< 5 U	110	< 2 U	< 0.5 U	23,900	39	< 10 U	< 1 U	NA	NA	< 100 U	< 1 U	92,400	< 10 U	< 0.2 U	< 5 U	< 5,000 U	< 5 U	< 0.5 U	57,000	< 2 U	< 10 U	< 20 U	NS
	12/15/95	< 100	< 5	< 5	110	< 2	< 0.5	21,400	42	< 10	< 1	NA	NA	< 100	< 1	84,300	18	< 0.2	7	< 5,000	< 5	< 0.5	58,000	< 2	< 10	< 20	NS
	09/13/95	< 200 U	< 60 U	< 5 U	100	< 2 U	< 2 U	19,000	40	< 20 U	< 10 U	NA	NA	< 100 U	< 3 U	78,000	< 10 U	< 0.2 U	< 20 U	< 500 U	12	< 5 U	56,000	< 5 U	< 10 U	56	NS
	11/08/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	548
	09/10/92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	567
LF01GW04	03/20/06	< 100	< 1	< 5	42	< 2	< 1	33,000	15	< 10	< 1	NA	NA	< 100	< 3	38,000	< 10	NA	< 20	1,600	< 5	< 1	46,000	< 1	< 10	< 20	440
	03/15/05	< 100	< 1	< 5	56	< 2	< 1	29,000	< 10	< 10	< 1	NA	NA	< 100	< 3	19,000	< 10	NA	< 20	2,300	< 5	< 1	61,000	< 1	< 10	< 20	340
	03/15/04	< 100	< 1	< 5	37	< 2	< 1	43,000	20	< 10	1.1	NA	NA	< 100	< 3	52,000	< 10	NA	< 20	2,300	< 5	< 1 UJ	45,000	< 1	< 10	< 20	500
DUP0317043A	03/15/04	< 100	< 1	< 5	37	< 2	< 1	42,000	20	< 10	< 1	NA	NA	< 100	< 3	52,000	< 10	NA	< 20	1,400	< 5	< 1 UJ	44,000	< 1	< 10	< 20	540
LF01GW04CL	03/15/04	< 100	< 5	< 5	38	< 1	< 1	41,000	23	< 7	< 10	NA	NA	< 500	< 3	52,000	< 5	NA	< 10	1,200	< 5	< 1	42,000	< 2	< 10	24 J+	400
	03/13/03	< 100	< 1	< 1	39	< 1	< 1	45,000	19	< 1	< 1	NA	NA	110	< 3	56,000	< 10	NA	4	1,200	< 5	< 1 UJ	120,000 J-	< 1	< 10	< 10	380
DUP0313032A	03/13/03	< 100	< 1	< 1	38	< 1	< 1	38,000	19	< 1	< 1	NA	NA	< 100	< 3	47,000	< 10	NA	4	1,400	< 5	< 1 UJ	54,000 J-	< 1	< 10	< 10	380
	12/03/02	< 100	< 1	< 1	38	< 1	< 1	38,000	19 J	< 1	< 1	NA	NA	< 100	< 3	48,000	< 10	NA	3.7	660	< 5	< 1 UJ	39,000	< 1	< 10	< 10	440
	08/27/02	< 100	< 1	< 1	330	< 1	< 1	36,000	20 J	< 1	< 1	NA	NA	< 100	< 3	48,000	< 10	NA	3.8	820	< 5	< 1 UJ	39,000	< 1	< 10	100	450

Table A-6-3
Results of Total and Dissolved Metals Analyses
Fill Site 1, Landfill 2, and El Polin Spring
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7196	SW7199	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW7470	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
LF01GW04	05/30/02	< 100	< 1	< 1	170	< 1	< 1	28,000	18	< 1	< 1	NA	NA	< 100	< 3	36,000	< 10	NA	4.5	18,000	< 5	< 1 UJ	57,000	< 1	< 10	40	450
DUP0530021B	05/30/02	< 100	< 1	< 1	180	< 1	< 1	30,000	17	< 1	< 1	NA	NA	< 100	< 3	39,000	< 10	NA	4.3	16,000	< 5	< 1 UJ	56,000	< 1	< 10	71	440
LF01GW04CL	05/30/02	< 100	0.61 J	< 0.5	98 B	< 0.078	< 1 BJ,U	31,000	21 J+	0.4 J	1.7 BJ	NA	NA	< 100	< 5	39,000	< 5	NA	5.1 B	14,000	5.2	< 0.03	52,000	< 0.34	3.9 J	24	430 J-
	03/12/02	< 100	< 1	< 1	280	< 1	< 1	34,000	15	< 1	1.2	NA	NA	< 100	< 3	15,000	< 10	NA	3.6	33,000	< 5	< 1 UJ	83,000	< 1	< 10	< 10	330
	11/27/01	< 100	< 1	< 1	260	< 1	< 1	40,000	23 J	< 1	1	NA	NA	< 100	< 3	53,000	< 10	NA	5.2	900	< 5	< 1	44,000	< 1	< 10	74	450
DUP1127012A	11/27/01	< 100	< 1	< 1	310	< 1	< 1	40,000	24 J	< 1	1.2	NA	NA	< 100	< 3	53,000	< 10	NA	5.4	1,200	< 5	< 1	48,000	< 1	< 10	110	470
LF01GW04CL	11/27/01	< 200	0.26 J	< 2.0	310	< 1	< 1	36,000	21	0.19 J	1.2 BJ	NA	NA	< 200	< 200	48,000	< 5	NA	4	1,100	< 5	< 1	40,000	< 1	5.2	60 B	480
	08/29/01	< 100	1.7	< 1	690 J+	< 1	< 1	38,000	22	< 1	1.6	NA	NA	100	< 3	56,000	< 10	NA	4.7	< 500	< 5	< 1 UJ	50,000	< 1	< 10	180	450
	05/17/01	< 100	1.8 J	< 1 UJ	480 J	< 1 UJ	< 1 UJ	40,000 J	21 J	< 1 UJ	< 1 UJ	NA	NA	110 J	< 3 UJ	59,000	< 10 UJ	NA	4.5 J	1,100 J	< 5 UJ	< 1 UJ	45,000	< 1 UJ	< 10 UJ	200 J	520
	05/11/99	< 100	< 5	< 5	37.1	< 4	< 2	34,900	19.8	< 10	< 10	NA	NA	< 100	< 3	45,500	< 10	NA	< 20	< 5,000	< 5	< 2	36,000	< 2	< 10	< 20	484
	02/10/99	< 100	< 5	< 5	38.2	< 4	< 2	36,600	22.2	< 10	11.8	NA	NA	< 100	4.5	46,600	< 10	NA	< 20	< 5,000	< 5	< 2	36,400	< 2	< 10	20.3	370
	11/10/98	< 100	< 5	< 5	34.4	< 4	< 2	32,800	19.1	< 10	43.1	NA	NA	< 100	< 3	43,500	17.8	< 0.2	< 20	< 5,000	< 5	< 2	33,800	< 2	< 10	44	455
	08/12/98	< 100	< 5	< 5	34.4	< 4	< 2	33,700	21.9	< 10	< 10	NA	NA	< 100	< 3	45,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	34,900	< 2	< 10	< 20	393
	04/10/98	< 100	< 5	< 5	36	< 4	< 2	35,000	21	< 10	< 10	NA	NA	< 100	< 3	48,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	34,000	< 2	< 10	< 20	400
	01/06/98	< 100	< 5	< 5	31.8	< 4	< 2	35,200	22.9	< 10	< 10	18	18.9	< 100	< 3	45,600	< 10	< 0.2	< 20	< 5,000	< 5	< 2	34,300	< 2	< 10	< 20	441
	11/06/97	< 100	< 5	< 5	33	< 4	< 2	34,000	20	< 10	< 10	NA	NA	< 100	< 3	49,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	36,000	< 2	< 10	< 20	490
	08/07/97	< 100	< 5	< 5	36	< 4	< 2	37,000	19	< 10	< 10	NA	NA	< 100	< 3	47,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	34,000	< 2	< 10	< 20	410
	05/08/97	< 100	< 5	< 5	31	< 4	< 2	34,000	17	< 10	< 10	NA	NA	< 100	< 3	45,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	31,000	< 2	< 10	< 20	480
	02/05/97	< 100	< 5	< 5	27	< 4	< 2	29,000	17	< 10	11	NA	NA	< 100	3.5	39,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	34,000	< 2	< 10	37	380 (J29)
	10/30/96	< 100 U	< 5 U	< 5 U	29	< 4 U	< 2 U	35,000	19	< 10 U	< 10 U	NA	NA	< 100 U	< 3 U	45,000	< 10 U	< 0.2 U	< 20 U	< 5,000 U	< 5 U	< 2 U	33,000	< 2 U	< 10 U	< 20 U	NS
	08/05/96	< 100 U	< 5 U	< 5 U	27	< 2 U	< 0.5 U	35,000	18	< 10 U	6	NA	NA	< 100 U	< 1 U	43,000	< 10 U	< 0.2 U	7	< 5,000 U	< 5 U	< 0.5 U	35,000	< 2 U	< 10 U	< 20 U	NS
	05/21/96	< 100 U	< 5 U	< 5 U	27	< 2 U	< 0.5 U	36,000	16	< 10 U	2	NA	NA	< 100 U	< 1 U	46,000	< 10 U	< 0.2 U	< 5 U	< 5,000 U	< 5 U	< 0.5 U	36,000	< 2 U	< 10 U	< 20 U	NS
	03/11/96	510	5	< 5 U	39	< 2 U	< 0.5 U	37,400	24	< 10 U	< 1 U	NA	NA	1300	2	49,600	25	< 0.2 U	10	< 5,000 U	< 5 U	< 0.5 U	35,000	< 2 U	< 10 U	< 20 U	NS
	12/18/95	< 100	< 5	< 5	31	< 2	< 0.5	38,200	20	< 10	< 1	NA	NA	< 100	< 1	50,100	< 10	< 0.2	6	< 5,000	< 5	< 0.5	44,000	< 2	< 10	< 20	NS
	09/14/95	< 200 U	< 60 U	< 5 U	35	< 2 U	< 2 U	33,000	17	< 20 U	< 10 U	NA	NA	110	< 3 U	44,000	27	< 0.2 U	< 20 U	1,500	5.9	< 5 U	43,000	< 5 U	< 10 U	24	NS
	11/08/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	434
	09/10/92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	502
LF01GW05	03/20/06	< 100	< 1	< 5	78	< 2	< 1	32,000	< 10	< 10	< 1	NA	NA	< 100	< 3	51,000	< 10	NA	< 20	< 500	< 5	< 1	37,000	< 1	< 10	< 20	390
	03/15/05	< 100	< 1	< 5	79	< 2	< 1	30,000	< 10	< 10	< 1	NA	NA	< 100	< 3	51,000	< 10	NA	< 20	< 500	< 5	< 1	37,000	< 1	< 10	< 20	400
	03/16/04	< 100	< 1	< 5	130 J-	< 2	< 1	38,000	< 10	< 10	2	NA	NA	< 100	< 3	47,000	< 10	NA	< 20	1,000	< 5	< 1	40,000	< 1	< 10	< 20	330
	03/12/03	< 100	< 1	< 1	83	< 1	< 1	33,000	2.3	< 1	< 1	NA	NA	< 100 UJ	< 3	56,000	11	NA	18	< 500	< 5	< 1 UJ	40,000	< 1	< 10	< 10	400
	12/03/02	< 100	< 1	< 1	84	< 1	< 1	34,000	3.2 J	< 1	< 1	NA	NA	< 100	< 3	51,000	< 10	NA	17	< 500	< 5	< 1 UJ	36,000	< 1	< 10	< 10	360
	08/27/02	< 100	< 1	< 1	420	< 1	< 1	36,000	5.2 J	< 1	< 1	NA	NA	< 100	< 3	56,000	13	NA	17	< 500	< 5	< 1 UJ	41,000	< 1	< 10	140	310
	05/29/02	< 100	< 1	< 1	410	< 1	1	35,000	1.1	< 1	< 1	NA	NA	< 100	< 3	57,000	15	NA	18	< 500	< 5	< 1 UJ	42,000	< 1	< 10	170	430
	03/11/02	100	< 1	< 1	370	< 1	41	38,000	2.1	< 1	4	NA	NA	210	< 3	13,000	< 10	NA	13	8,500	< 5	< 1 UJ	17,000	< 1	< 10	71	210
	11/27/01	< 100	1.3	< 1	510	< 1	1.4	36,000	4.5	< 1	1.7	NA	NA	< 100	< 3	58,000	16	NA	19	1,200	< 5	< 1	47,000	< 1	< 10	210	410
	08/28/01	< 100	2.8	< 1	770	< 1	< 1	35,000	1.6	< 1	3.8	NA	NA	180	< 3	58,000	19	NA	20	960	< 5	< 1	45,000	< 1	< 10	170	400
	05/16/01	< 100	1.2	< 1	550	< 1	< 1	< 500 R	1.5 J	< 1	< 1	NA	NA	1,500	< 3	56,000	63	NA	14	790 J	< 5	< 1	44,000	< 1	< 10	330	480
	05/13/99	< 100	< 5	< 5	78.5	< 4	< 2	34,500	< 10	< 10	< 10	NA	NA	< 100	< 3	54,400	15.8	NA	< 20	< 5,000	< 5	< 2	39,300	< 2	< 10	< 20	486
	02/11/99	< 100	< 5	< 5	84.9	< 4	< 2	36,200	< 10	< 10	< 10	NA	NA	< 100	< 3	54,500	13.5	NA	< 20	< 5,000	< 5	< 2	39,000	< 2	< 10	24.6	700
	11/12/98	< 100	< 5	< 5	74.6	< 4	< 2	33,000	< 10	< 10	< 10	NA	NA	< 100	< 3	50,900	15.9	< 0.2	< 20	< 5,000	< 5	< 2	32,900	< 2	< 10	< 20	485
	08/11/98	< 100	< 10	< 5	76.6	< 2	< 2	35,500	5.6	< 5	< 10	NA	NA	< 50	< 5	55,500	15.8	< 0.5	19.4	405	< 10	< 10	40,300	< 10	< 10	17.6	482
	04/09/98	< 100	< 5	< 5	90	< 4	14	33,000	< 10	< 10	27	NA	NA	< 100	< 3	49,000	13	< 0.2	< 20	< 5,000	< 5	< 2	35,000	< 2	< 10	86	400
	01/05/98	< 100	< 5	< 5	81.8	< 4	< 2	35,300	< 10	< 10	< 10	2.1	5.1	< 100	< 3	53,600	< 10	< 0.2	< 20	< 5,000	< 5	< 2	40,900	< 2	< 10	< 20	454
	11/06/97	< 100	< 5	< 5	79	< 4	< 2	33,000	< 10	< 10	< 10	NA	NA	< 100	< 3	57,000	< 10	< 0.2	23	< 5,000	< 5	< 2	38,000	< 2	< 10	< 20	500
	08/07/97	< 100	< 5	< 5	81	< 4	< 2	37,000	< 10	< 10	< 10	NA	NA	< 100	< 3	56,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	37,000	< 2	< 10	< 20	470
	05/08/97	< 100	< 5	< 5	75	< 4	< 2	34,000	< 10	< 10	< 10	NA	NA	< 120 (U4)	< 3	54,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	35,000	< 2	< 10	< 20	440
	02/06/97	< 100	< 5	< 5	64	< 4	2	30,000	< 10	< 10	< 10	NA	NA	< 100	< 3	47,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	36,000	< 2	< 10	28	350 (J29)
	10/31/96	< 100 U	< 5 U	< 5 U	100	< 4 U	< 2 U	33,000	< 10 U	< 10 U	< 10 U	NA	NA	< 100 U	< 3 U	49,000	< 10 U	< 0.2 U	< 20 U	< 5,000 U	< 5 U	< 2 U	36,000	< 2 U	< 10 U	< 20 U	NS
	08/06/96	< 100 U	< 5 U	< 5 U	63	< 2 U	< 0.5 U	32,000	9	< 10 U	8	NA	NA	< 100 U	< 1 U	46,000	< 10 U	< 0.2 U	14	< 5,000 U	< 5 U	< 0.5 U	33,000	< 2 U	< 10 U	14	NS
	05/22/96	< 100 U	< 5 U	< 5 U	62	< 2 U	< 0.5 U	30,000	9	< 10 U	< 1 U	NA	NA	< 100 U	< 1 U	48,000	< 10 U	< 0.2 U	12	< 5,000 U	< 5 U	< 0.5 U	33,000	< 2 U	< 10 U	< 20 U	NS
	03/12/96	< 100 U	< 5 U	< 5 U	61	< 2 U	< 0.5 U	32,500	9	< 10 U	< 1 U	NA	NA	< 100 U	< 1 U	49,500	< 10 U	< 0.2 U	14	< 5,000 U	< 5 U	< 0.5 U	31,000	< 2 U	< 10 U	68	NS

Table A-6-3
Results of Total and Dissolved Metals Analyses
Fill Site 1, Landfill 2, and El Polin Spring
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7196	SW7199	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW7470	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
LF01GW05	12/19/95	< 100	< 5	< 5	62	< 2	< 0.5	30,700	12	< 10	1	NA	NA	< 100	< 1	48,300	< 10	< 0.2	14	< 5,000	< 5	< 0.5	40,000	< 2	< 10	< 20	NS
	09/15/95	< 200 U	< 60 U	< 5 U	58	< 2 U	< 2 U	24,000	10	< 20 U	< 10 U	NA	NA	< 100 U	< 3 U	40,000	< 10 U	< 0.2 U	< 20 U	< 500 U	7.2	< 5 U	39,000	< 5 U	< 10 U	27	NS
	11/08/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	464
	09/10/92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	427
LF01GW06	03/20/06	< 100	< 1	< 5	22	< 2	3.3	19,000	< 10	< 10	4.2	NA	NA	< 100	< 3	3,100	< 10	NA	< 20	3,400	< 5	< 1	6,200	< 1	< 10	460	140
	03/15/05	< 100	< 1	< 5	24	< 2	6.6	28,000	< 10	< 10	6.2	NA	NA	< 100	< 3	4,700	< 10	NA	< 20	5,100	< 5	< 1	8,800	< 1	< 10	790	150
	03/17/04	< 100	< 1	< 5	28	< 2	5.7	30,000	11	< 10	2.6	NA	NA	< 100	< 3	28,000	< 10	NA	< 20	3,900	< 5	< 1 UJ	26,000	< 1	< 10	620	280
	03/13/03	< 100	1.4	< 1	31	< 1	23	31,000	5	< 1	6.4	NA	NA	110	< 3	11,000	< 10	NA	5.4	33,000	< 5	< 1 UJ	37,000 J-	< 1	< 10	1,800	190
	12/03/02	< 100	1.1	< 1	36	< 1	< 1	31,000	18 J	< 1	< 1	NA	NA	< 100	< 3	42,000	< 10	NA	5.1	1,200	< 5	< 1 UJ	30,000	< 1	< 10	< 10	350
	08/27/02	< 100	< 1	< 1	260	< 1	< 1	30,000	21 J	< 1	< 1	NA	NA	< 100	< 3	43,000	< 10	NA	5	1,600	< 5	< 1 UJ	32,000	< 1	< 10	67	400
DUP0827022A	08/27/02	< 100	< 1	< 1	480	< 1	< 1	32,000	21 J	< 1	< 1	NA	NA	< 100	< 3	46,000	< 10	NA	5.1	1,500	< 5	< 1 UJ	34,000	< 1	< 10	230	350
	05/30/02	< 100	< 1	< 1	160	< 1	< 1	34,000	19	< 1	< 1	NA	NA	< 100	< 3	48,000	< 10	NA	4.7	2,400	< 5	< 1 UJ	37,000	< 1	< 10	79	410
DUP0530021C	05/30/02	< 100	< 1	< 1	110	< 1	1	34,000	19	< 1	< 1	NA	NA	< 100	< 3	47,000	< 10	NA	5	2,500	< 5	< 1 UJ	37,000	< 1	< 10	48	410
	03/12/02	140	1.1	< 1	460	< 1	49	38,000	12	< 1	3.4	NA	NA	220	< 3	31,000	< 10	NA	5.7	7,200	< 5	< 1 UJ	30,000	< 1	< 10	1,600	260
	11/27/01	< 100	1.4	< 1	470	< 1	1.2	34,000	23 J	< 1	1.5	NA	NA	< 100	< 3	48,000	< 10	NA	6.3	4,700	< 5	< 1	42,000	< 1	< 10	200	410
	08/28/01	< 100	1.6	< 1	770	< 1	< 1	35,000	20	< 1	3.3	NA	NA	160	< 3	50,000	< 10	NA	6.4	4,200	< 5	< 1	42,000	< 1	< 10	200	390
	05/17/01	< 100	1.6 J	< 1 UJ	440 J	< 1 UJ	4.7 J	34,000 J	21 J	< 1 UJ	< 1 UJ	NA	NA	< 100 UJ	< 3 UJ	51,000	< 10 UJ	NA	5.8 J	2,800 J	< 5 UJ	< 1 UJ	37,000	< 1 UJ	< 10 UJ	680 J	480
	05/12/99	< 100	< 5	< 5	41.5	< 4	2.3	32,200	18.6	< 10	< 10	NA	NA	< 100	< 3	42,500	< 10	< 0.2	< 20	< 5,000	< 5	< 2	29,000	< 2	< 10	52 (J33)	429
	02/10/99	< 100	< 5	< 5	32.2	< 4	64.7	35,700	< 10	< 10	16.2	NA	NA	113	7.2 (J33)	8,310 (J33)	< 10	NA	< 20	8,650	< 5	< 2	14,200	< 2	< 10	1,610 (J33)	130 (J33)
	11/11/98	< 100	< 5	< 5	44	< 4	< 2	32,100	22.4	< 10	13.8	NA	NA	115	5.6	43,400	< 10	< 0.2	< 20	< 5,000	< 5	< 2	29,800	3.2	< 10	40.5	432
	08/13/98	< 100	< 5	< 5	42	< 4	< 2	32,000	18	< 10	< 10	NA	NA	< 100	< 3	44,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	32,000	< 2	< 10	33	450
	04/13/98	< 100	< 5	< 5	44	< 4	< 2	33,000	19	< 10	13	NA	NA	< 100	< 3	47,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	33,000	< 2	< 10	36	390
	01/06/98	< 100	< 5	< 5	39.9	< 4	4.9	33,500	17.7	< 10	< 10	7.9	10.7	< 100	< 3	43,900	< 10	< 0.2	< 20	< 5,000	< 5	< 2	32,900	< 2	< 10	162	405
	11/05/97	< 100	< 5	< 5	42	< 4	< 2	30,000	18	< 10	< 10	NA	NA	< 100	< 3	44,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	33,000	< 2	< 10	< 20	440
	08/06/97	< 100	< 5	< 5	44	< 4	< 2	33,000	19	< 10	< 10	NA	NA	< 100	< 3	45,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	32,000	< 2	< 10	< 20	390
	05/07/97	< 100	< 5	< 5	43	< 4	< 2	31,000 (J9)	17	< 10	< 10	NA	NA	< 100	< 3	43,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	31,000 (J9)	< 2	< 10	< 20	450
	02/05/97	< 100	< 5	< 5	41	< 4	< 2	29,000	18	< 10	31	NA	NA	< 100	21	41,000	15	< 0.2	< 20	< 5,000	< 5	< 2	33,000	< 2	< 10	96	370 (J29)
	10/30/96	< 100 U	< 5 U	< 5 U	44	< 4 U	< 2 U	33,000	18	< 10 U	< 10 U	NA	NA	< 100 U	< 3 U	44,000	< 10 U	< 0.2 U	< 20 U	< 5,000 U	< 5 U	< 2 U	32,000	< 2 U	< 10 U	< 20 U	NS
	08/05/96	< 100 U	< 5 U	< 5 U	45	< 2 U	< 0.5 U	32,000	18	< 10 U	7	NA	NA	< 100 U	< 1 U	44,000	< 10 U	< 0.2 U	9	< 5,000 U	< 5 U	< 0.5 U	32,000	< 2 U	< 10 U	54	NS
	05/23/96	< 100 U	< 5 U	< 5 U	39	< 2 U	< 0.5 U	31,000	14	< 10 U	< 1 U	NA	NA	< 100 U	< 1 U	42,000	< 10 U	< 0.2 U	< 5 U	< 5,000 U	< 5 U	< 0.5 U	29,000	< 2 U	< 10 U	30	NS
	03/11/96	< 100 U	< 5 U	< 5 U	54	< 2 U	14	48,200	5	< 10 U	3	NA	NA	< 100 U	2	22,700	18	< 0.2 U	6	5,410	< 5 U	< 0.5 U	18,000	< 2 U	< 10 U	3,400	NS
	12/18/95	< 100	< 5	< 5	39	< 2	< 0.5	31,800	11	< 10	1	NA	NA	< 100	< 1	33,900	< 10	< 0.2	8	< 5,000	< 5	< 0.5	27,000	< 2	< 10	270	NS
	09/14/95	< 200 U	< 60 U	< 5 U	36	< 2 U	< 2 U	26,000	16	< 20 U	< 10 U	NA	NA	< 100 U	8.2	38,000	< 10 U	< 0.2 U	< 20 U	690	6.7	< 5 U	32,000	< 5 U	< 10 U	140	NS
	11/08/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	418
	08/28/92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	461
LF01GW07	03/20/06	< 100	< 1	< 5	39	< 2	< 1	32,000	23	< 10	< 1	NA	NA	< 100	< 3	49,000	< 10	NA	< 20	640	< 5	< 1	37,000	< 1	< 10	< 20	360
	03/15/05	< 100	< 1	< 5	22	< 2	< 1	20,000	< 10	< 10	2.4	NA	NA	< 100	< 3	26,000	< 10	NA	< 20	1,600	< 5	< 1	21,000	< 1	< 10	< 20	440
	03/17/04	< 100	< 1	< 5	34	< 2	< 1	35,000	17	< 10	1.4	NA	NA	< 100	< 3	46,000	< 10	NA	< 20	1,200	< 5	< 1 UJ	36,000	< 1	< 10	< 20	410
	03/13/03	< 100	1	< 1	36	< 1	< 1	31,000	18	< 1	1.2	NA	NA	< 100	< 3	45,000	< 10	NA	5	780	< 5	< 1 UJ	37,000 J-	< 1	< 10	< 10	260
	12/03/02	< 100	< 1	< 1	40	< 1	< 1	34,000	22 J	< 1	< 1	NA	NA	< 100	< 3	52,000	< 10	NA	4	< 500	< 5	< 1 UJ	38,000	< 1	< 10	< 10	530
	08/27/02	< 100	< 1	< 1	410	< 1	< 1	35,000	25 J	< 1	< 1	NA	NA	< 100	< 3	56,000	< 10	NA	4.2	640	< 5	< 1 UJ	41,000	< 1	< 10	150	390
	05/29/02	< 100	< 1	< 1	440	< 1	< 1	34,000	20	< 1	< 1	NA	NA	< 100	< 3	53,000	< 10	NA	4.1	800	< 5	< 1 UJ	41,000	< 1	< 10	160	530
	03/12/02	< 100	< 1	< 1	380	< 1	< 1	31,000	21	< 1	1.3	NA	NA	< 100	< 3	50,000	< 10	NA	5.3	910	< 5	3.2 J-	39,000	< 1	< 10	110	380
	11/27/01	< 100	< 1	< 1	430	< 1	< 1	36,000	29 J	< 1	1.2	NA	NA	1,000	< 3	59,000	< 10	NA	5.7	930	< 5	< 1	44,000	< 1	< 10	170	420
	08/29/01	< 100	1.3	< 1	400 J+	< 1	< 1	32,000	25	< 1	1.1	NA	NA	< 100	< 3	56,000	< 10	NA	4.3	< 500	< 5	< 1 UJ	45,000	< 1	< 10	170	450
	05/15/01	< 100	< 1	< 1	52	< 1	< 1	< 500 R	26 J	< 1	1	NA	NA	250	< 3	220,000	< 10	NA	5.1	560 J	< 5	< 1	160,000	< 1	< 10	< 10	2,470
DUP0515013A	05/15/01	< 100	< 1	< 1	53	< 1	< 1	< 500 R	26 J	< 1	< 1	NA	NA	250	< 3	220,000	< 10	NA	4.4	540 J	< 5	< 1	170,000	< 1	< 10	13	510
LF01GW07CL	05/15/01	< 200	<2	<2	46	< 1	< 1	33,000	27	< 1	<2	NA	NA	< 200	< 5	54,000	< 5	NA	4.2	< 1,000	< 5	< 1	38,000	< 1	< 5	12	440
	05/10/99	< 100	< 5	< 5	41.6	< 4	< 2	34,700	25.8	< 10	< 10	NA	NA	< 100	< 3	52,400	< 10	NA	< 20	< 5,000	< 5	< 2	39,000	< 2	< 10	36.9	474
	02/08/99	< 100	< 5	< 5	38.2	< 4	< 2	33,500	24	< 10	< 10	NA	NA	< 100	< 3	51,100	< 10	NA	< 20	< 5,000	< 5	< 2	37,800	< 2	< 10	< 20	446
	11/09/98	< 100	< 5	< 5	46.8	< 4	< 2	36,000	29	< 10	20.8	NA	NA	< 100	< 3	54,300	< 10	< 0.2	< 20	< 5,000	< 5	< 2	47,700	< 2	< 10	20.8	492
	08/11/98	< 100	< 10	< 5	39.9	< 2	< 2	33,300	25.1	< 5	< 10	NA	NA	< 50	< 5	52,900	< 5	< 0.5	< 5	691	< 10	< 10	40,500	< 10	< 10	6.5	467
LF01GW07CL	04/09/98	< 100	< 5	< 5	40	< 4	< 2	33,000	23	< 10	11	NA	NA	< 100	< 3	51,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	37,000	< 2	< 10	< 20	440
	01/05/98	< 100	< 5	< 5	35.1	< 4	< 2	35,000	28.5	< 10	< 10	25	24.7	< 100	< 3	54,300	< 10	< 0.2	< 20	< 5,000	< 5	< 2	39,400	< 2	< 10	< 20	496
	11/06/97	< 100	< 5	< 5	41	< 4	< 2	32,000	26	< 10	< 10	NA	NA	< 100	< 3	56,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	40,000	< 2	< 10	< 20	520

Table A-6-3
Results of Total and Dissolved Metals Analyses
Fill Site 1, Landfill 2, and El Polin Spring
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7196	SW7199	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW7470	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
LF01GW07	08/07/97	< 100	< 5	< 5	42	< 4	< 2	37,000	25	< 10	< 10	NA	NA	< 100	< 3	57,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	39,000	< 2	< 10	< 20	500
	05/08/97	< 100	< 5	< 5	40	< 4	< 2	33,000	22	< 10	< 10	NA	NA	< 100	< 3	53,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	36,000	< 2	< 10	< 20	540
	02/06/97	< 100	< 5	< 5	33	< 4	< 2	32,000	14	< 10	< 10	NA	NA	< 100	< 3	34,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	27,000	< 2	< 10	43	330 (J29)
	10/31/96	< 100 U	< 5 U	5	43	< 4 U	< 2 U	37,000	26	< 10 U	< 10 U	NA	NA	< 100 U	< 3 U	57,000	< 10 U	< 0.2 U	< 20 U	< 5,000 U	< 5 U	< 2 U	38,000	< 2 U	< 10 U	< 20 U	NS
	08/06/96	< 100 U	< 5 U	< 5 U	39	< 2 U	< 0.5 U	36,000	25	< 10 U	< 8	NA	NA	< 100 U	< 1 U	55,000	< 10 U	< 0.2 U	6	< 5,000 U	< 5 U	< 0.5 U	38,000	< 2 U	< 10 U	< 20 U	NS
	05/22/96	< 100 U	< 5 U	< 5 U	27	< 2 U	< 0.5 U	37,000	20	< 10 U	< 1 U	NA	NA	< 100 U	< 1 U	58,000	< 10 U	< 0.2 U	< 5 U	< 5,000 U	< 5 U	< 0.5 U	38,000	< 2 U	< 10 U	< 20 U	NS
	03/12/96	< 100 U	< 5 U	< 5 U	28	< 2 U	< 0.5 U	37,800	23	< 10 U	< 1 U	NA	NA	< 100 U	< 1 U	61,300	< 10 U	< 0.2 U	< 5 U	< 5,000 U	< 5 U	< 0.5 U	37,000	< 2 U	< 10 U	< 20 U	NS
	12/19/95	< 100	< 5	< 5	32	< 2	< 0.5	40,400	23	< 10	5	NA	NA	< 100	< 1	63,700	< 10	< 0.2	< 5	< 5,000	< 5	< 0.5	46,000	< 2	< 10	< 20	NS
	09/15/95	280	< 60 U	< 5 U	34	< 2 U	< 2 U	35,000	20	< 20 U	< 10 U	NA	NA	180	< 3 U	58,000	51	< 0.2 U	< 20 U	680	6.5	< 5 U	43,000	< 5 U	< 10 U	110	NS
LF02GW01	03/16/06	< 100 UJ	< 1	< 5	63	< 2	< 1	15,000	< 10	< 10	< 1	NA	NA	< 100	< 3	55,000	< 10	NA	< 20	540	< 5	< 1	28,000 J	< 1	< 10	< 20	450 J
	03/15/05	< 100	< 1	< 5	63	< 2	< 1	15,000	< 10	< 10	< 1	NA	NA	< 100	< 3	54,000	< 10	NA	< 20	< 500	< 5	< 1	28,000	< 1	< 10	< 20	360
	03/16/04	< 100	< 1	< 5	61 J-	< 2	< 1	17,000	< 10	< 10	3.8	NA	NA	< 100	< 3	58,000	< 10	NA	< 20	< 500	< 5	< 1	32,000	< 1	< 10	< 20	340
	03/13/03	< 100	< 1	< 1	58	< 1	< 1	15,000	8.3	< 1	< 1	NA	NA	< 100	< 3	49,000	< 10	NA	< 1	860	< 5	< 1 UJ	36,000 J-	< 1	< 10	81	350
	12/03/02	< 100	< 1	< 1	60	< 1	< 1	15,000	7.6 J	< 1	< 1	NA	NA	< 100	< 3	52,000	< 10	NA	< 1	< 500	< 5	< 1 UJ	27,000	< 1	< 10	< 10	330
	08/27/02	< 100	< 1	< 1	360	< 1	< 1	14,000	8.8 J	< 1	< 1	NA	NA	< 100	< 3	53,000	< 10	NA	< 1	550	< 5	< 1 UJ	28,000	< 1	< 10	94	350
	05/29/02	< 100	< 1	< 1	360	< 1	< 1	15,000	6.9	< 1	< 1	NA	NA	< 100	< 3	55,000	< 10	NA	< 1	< 500	< 5	< 1 UJ	29,000	< 1	< 10	100	310
	03/11/02	< 100	< 1	< 1	400	< 1	< 1	15,000	9.7	< 1	< 1	NA	NA	< 100	< 3	58,000	< 10	NA	< 1	520	< 5	< 1 UJ	31,000	< 1	< 10	98	340
	11/28/01	< 100	< 1	< 1	450	< 1	< 1	16,000	16 J	< 1	1.6	NA	NA	< 100	< 3	59,000	< 10	NA	1.1	760	< 5	< 1	31,000	< 1	< 10	85	310
	08/28/01	< 100	1.3	< 1	610	< 1	< 1	15,000	7.4	< 1	1.4	NA	NA	< 100	< 3	55,000	< 10	NA	< 1	510	< 5	< 1	31,000	< 1	< 10	110	340
	05/17/01	< 100	1.9 J	1.2 J	470 J	< 1 UJ	< 1 UJ	16,000 J	9 J	< 1 UJ	< 1 UJ	NA	NA	< 100 UJ	< 3 UJ	60,000	< 10 UJ	NA	< 1 UJ	600 J	< 5 UJ	< 1 UJ	31,000	< 1 UJ	< 10 UJ	160 J	350
	05/11/99	< 100	< 5	< 5	55.8	< 4	< 2	14,400	< 10	< 10	< 10	NA	NA	< 100	< 3	51,400	< 10	NA	< 20	< 5,000	< 5	< 2	26,600	< 2	< 10	< 20	334
	02/09/99	< 100	< 5	< 5	59.5	< 4	< 2	15,000	< 10	< 10	< 10	NA	NA	< 100	< 3	51,500	< 10	NA	< 20	< 5,000	< 5	< 2	26,600	< 2	< 10	< 20	681
	11/10/98	138	< 5	< 5	57.1	< 4	< 2	14,700	< 10	< 10	19.9	NA	NA	298	< 3	51,400	31.8	< 0.2	< 20	< 5,000	< 5	< 2	27600	< 2	< 10	26.8	546
	08/12/98	< 100	< 5	< 5	56.4	< 4	< 2	14,000	< 10	< 10	10.5	NA	NA	< 100	< 3	50,200	< 10	< 0.2	< 20	< 5,000	< 5	< 2	27,100	< 2	< 10	< 20	357
	04/10/98	< 100	< 5	< 5	57	< 4	< 2	14,000	< 10	< 10	15 (J33)	NA	NA	< 100	< 3	55,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	27,000	< 2	< 10	< 20	330
	01/06/98	< 100	< 5	< 5	51.3	< 4	< 2	14,400	< 10	< 10	< 10	5	7.2	< 100	< 3	50,400	< 10	< 0.2	< 20	< 5,000	< 5	< 2	26,500	< 2	< 10	< 20	364
	11/03/97	< 100	< 5	< 5	55	< 4	< 2	15,000	14	< 10	< 10	NA	NA	< 100	< 3	53,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	28,000	< 2	< 10	< 20	370
	08/04/97	< 100	< 5	< 5	58	< 4	< 2	15,000	< 10	< 10	< 10	NA	NA	< 100	< 3	54,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	26,000	< 2	< 10	< 20	340
	05/05/97	< 100	< 5	< 5	58	< 4	< 2	14,000	< 10	< 10	< 10	NA	NA	< 100	< 3	52,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	24,000	< 2	< 10	< 20	380
	02/03/97	< 100	< 5	< 5	53	< 4	< 2	15,000	< 10	< 10	< 10	NA	NA	< 100	< 3	53,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	28,000	< 2	< 10	< 20	310 (J29)
	10/28/96	< 100 U	< 5 U	5.9	58	< 4 U	< 2 U	16,000	< 10 U	< 10 U	< 10 U	NA	NA	< 100 U	< 3 U	54,000	< 10 U	< 0.2 U	< 20 U	< 5,000 U	< 5 U	< 2 U	27,000	< 2 U	< 10 U	< 20 U	NS
	07/31/96	< 100 U	< 5 U	< 5 U	55	< 2 U	< 0.5 U	15,000	6	< 10 U	10	NA	NA	< 100 U	< 1 U	54,000	< 10 U	< 0.2 U	< 5 U	< 5,000 U	< 5 U	< 0.5 U	27,000	< 2 U	< 10 U	< 20 U	NS
	05/21/96	230	< 5 U	< 5 U	46	< 2 U	< 0.5 U	14,000	7	< 10 U	< 1 U	NA	NA	110	< 1 U	50,000	< 10 U	< 0.2 U	< 5 U	< 5,000 U	< 5 U	< 0.5 U	24,000	< 2 U	< 10 U	< 20 U	NS
	03/04/96	< 100 U	< 5 U	< 5 U	53	< 2 U	< 0.5 U	14,600	10	< 10 U	1	NA	NA	< 100 U	1	55,200	< 10 U	< 0.2 U	< 5 U	< 5,000 U	< 5 U	< 0.5 U	24,000	< 2 U	< 10 U	< 20 U	NS
	12/11/95	< 100	< 5	< 5	150	< 2	< 0.5	47,800	2	< 10	< 1	NA	NA	< 100	< 1	42,000	39	< 0.2	< 5	11,000	< 5	< 0.5	37,000	< 2	< 10	43	NS
	09/08/95	< 200 U	< 60 U	< 5 U	50	< 2 U	< 2 U	13,000	< 10 U	< 20 U	< 10 U	NA	NA	< 100 U	< 3 U	50,000	< 10 U	< 0.2 U	< 20 U	< 500 U	< 5 U	< 5 U	26,000	< 5 U	< 10 U	< 20 U	NS
	11/09/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	330
	08/28/92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	384
LF02GW02	03/20/06	< 100	< 1	< 5	220	< 2	< 1	34,000	< 10	< 10	< 1	NA	NA	< 100	< 3	130,000	12	NA	< 20	670	< 5	< 1	62,000	< 1	< 10	< 20	750
	03/15/05	< 100	< 1	< 5	200	< 2	< 1	32,000	< 10	< 10	< 1	NA	NA	< 100	< 3	130,000	220	NA	< 20	690	< 5	< 1	63,000	< 1	< 10	< 20	760
	03/16/04	< 100	1	< 5	240 J-	< 2	< 1	42,000	< 10	< 10	15	NA	NA	< 100	< 3	150,000	34	NA	< 20	710	< 5	< 1	74,000	< 1	< 10	< 20	790
	03/13/03	< 100	< 1	1	280	< 1	< 1	35,000	2.7	< 1	< 1	NA	NA	160	< 3	130,000	310	NA	1.5	1,000	< 5	< 1 UJ	63,000 J-	< 1	< 10	< 10	780
DUP0313032B	03/13/03	< 100	< 1	< 1	290	< 1	< 1	36,000	2	< 1	1.1	NA	NA	140	< 3	140,000	330	NA	1.4	990	< 5	< 1 UJ	64,000 J-	< 1	< 10	< 10	650
	12/03/02	< 100	1.2	1.3	340	< 1	< 1	35,000	3 J	< 1	< 1	NA	NA	120	< 3	130,000	970	NA	1.2	810	< 5	< 1 UJ	58,000	< 1	< 10	< 10	820
DUP1203023A	12/03/02	< 100	< 1	1.2	340	< 1	< 1	35,000	1.1 J	< 1	< 1	NA	NA	120	< 3	140,000	930	NA	1.1	830	< 5	< 1 UJ	61,000	< 1	< 10	< 10	820
	08/27/02	< 100	1.2	1.1	570	< 1	< 1	38,000	6 J	< 1	1.1	NA	NA	240	< 3	150,000	390	NA	< 1	930	< 5	< 1 UJ	66,000	< 1	< 10	96	470
DUP0827023A	08/27/02	< 100	< 1	1.1	520	< 1	< 1	38,000	5.9 J	< 1	< 1	NA	NA	230	< 3	150,000	410	NA	< 1	890	< 5	< 1 UJ	67,000	< 1	< 10	70	800
	05/29/02	< 100	< 1	< 1	350	< 1	< 1	37,000	< 1	< 1	< 1	NA	NA	< 100	< 3	150,000	170	NA	< 1	740	< 5	< 1 UJ	66,000	< 1	< 10	36	800
	03/11/02	< 100	< 1	1.3	490	< 1	< 1	36,000	< 1	< 1	< 1	NA	NA	120	< 3	190,000	220	NA	2.3	830	< 5	< 1 UJ	77,000	< 1	< 10	23	910
DUP0311022B	03/11/02	< 100	< 1	1.3	430	< 1	< 1	40,000	< 1	< 1	< 1	NA	NA	110	< 3	170,000	200	NA	2.2	780	< 5	< 1 UJ	69,000	< 1	< 10	25	880
LF02GW02CL	03/11/02	< 200	0.47 J	0.67 J	450	< 2	< 1	39,000	< 2	0.73 J	1.4 BJ	NA	NA	38 J	< 5	160,000	210	NA	2.2	< 1,000	19	< 1	67,000	< 1	< 5	61 B	1,100 J-
	11/28/01	< 100	1.3	2.5	680	< 1	< 1	43,000	10 J	< 1	1.6	NA	NA	260	< 3	170,000	630	NA	3.5	1,000	< 5	< 1	75,000	< 1	< 10	110	900
	08/28/01	< 100	1.3	2.3	940	< 1	< 1	39,000	< 1	< 1	2.7	NA	NA	320	< 3	160,000	540	NA	3.4	1,200	< 5	< 1	68,000	< 1	< 10	100	830
	05/17/01	< 100	1.8 J	1.5 J	540 J	< 1 UJ	< 1 UJ	41,000 J	1.8 J	< 1 UJ	1.5 J	NA	NA	130 J	< 3 UJ	180,000	890 J	NA	3.5 J	1,000 J	< 5 UJ	< 1 UJ	75,000	< 1 UJ	< 10 UJ	98 J	920
	05/12/99	< 100	< 5	< 5	345	< 4	< 2	43,200	< 10	< 10	< 10	NA	NA	< 100	< 3	161,000	492	< 0.2	< 20	< 5,000	< 5	< 2	66,000	< 2	< 10	< 20	1,280

Table A-6-3
Results of Total and Dissolved Metals Analyses
Fill Site 1, Landfill 2, and El Polin Spring
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7196	SW7199	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW7470	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
LF02GW02	02/10/99	< 100	< 5	< 5	357	< 4	< 2	46,600	< 10	< 10	11.4	NA	NA	< 100	< 3	176,000	329	NA	< 20	< 5,000	< 5	< 2	69,100	< 2	< 10	22.5	914
	11/11/98	< 100	< 5	< 5	284	< 4	< 2	47,200	< 10	< 10	29.2	NA	NA	262	4.6	170,000	407	< 0.2	< 20	< 5,000	< 5	< 2	65,200	2.3	< 10	75	1,090
	08/13/98	< 100	< 5	< 5	360	< 4	< 2	44,000	< 10	< 10	10	NA	NA	< 100	< 3	170,000	400	< 0.2	< 20	< 5,000	< 5	< 2	67,000	< 2	< 10	< 20	860
	04/13/98	< 100	< 5	< 5	290	< 4	< 2	45,000	< 10	< 10	14	NA	NA	< 100	< 3	170,000	470	< 0.2	< 20	< 5,000	< 5	< 2	67,000	< 2	< 10	< 20	1,100
	01/07/98	< 100	< 5	< 5	341	< 4	< 2	50,700	< 10	< 10	< 10	< 10	< 0.5	110	< 3	186,000	406	< 0.2	< 20	< 5,000	< 5	< 2	71,200	< 2	< 10	< 20	1,200
	11/03/97	< 100	< 5	< 5	350	< 4	< 2	46,000	< 10	< 10	< 10	NA	NA	110	< 3	190,000	420	< 0.2	< 20	< 5,000	< 5	< 2	73,000	< 2	< 10	< 20	1,200
	08/04/97	< 100	< 5	< 5	320	< 4	< 2	56,000	< 10	< 10	< 10	NA	NA	390	< 3	210,000	490	< 0.2	< 20	< 5,000	< 5	< 2	75,000	< 2	< 10	< 20	1,100
	05/05/97	< 100	< 5	< 5	270	< 4	< 2	41,000	< 10	< 10	< 10	NA	NA	< 100	< 3	160,000	370	< 0.2	< 20	< 5,000	< 5	< 2	60,000	< 2	< 10	< 20	1,000
	02/03/97	< 100	< 5	< 5	250	< 4	< 2	39,000	< 10	< 10	< 10	NA	NA	< 100	< 3	150,000	330	< 0.2	< 20	< 5,000	< 5	< 2	61,000	< 2	< 10	< 20	1,100 (J29)
	10/28/96	< 100 U	< 5 U	11	320	< 4 U	< 2 U	42,000	< 10 U	< 10 U	< 10 U	NA	NA	< 100 U	< 3 U	160,000	310	< 0.2 U	< 20 U	< 5,000 U	< 5 U	< 2 U	63,000	< 2 U	< 10 U	< 20 U	NS
	07/31/96	< 100 U	< 5 U	< 5 U	280	< 2 U	< 0.5 U	43,000	< 1 U	< 10 U	6	NA	NA	< 100 U	< 1 U	160,000	340	< 0.2 U	< 5 U	< 5,000 U	< 5 U	< 0.5 U	68,000	< 2 U	< 10 U	< 20 U	NS
	05/22/96	< 100 U	< 5 U	< 5 U	270	< 2 U	< 0.5 U	36,000	< 1 U	< 10 U	5	NA	NA	< 100 U	< 1 U	140,000	230	< 0.2 U	< 5 U	< 5,000 U	< 5 U	< 0.5 U	58,000	< 2 U	< 10 U	< 20 U	NS
	03/04/96	< 100 U	< 5 U	< 5 U	251	< 2 U	< 0.5 U	36,900	1	< 10 U	< 1 U	NA	NA	< 100 U	< 1 U	143,000	348	< 0.2 U	< 5 U	< 5,000 U	< 5 U	< 0.5 U	56,000	< 2 U	< 10 U	< 20 U	NS
	12/11/95	< 100	< 5	< 5	54	< 2	1.9	37,700	12	< 10	3	NA	NA	< 100	< 1	65,300	< 10	< 0.2	< 5	5,480	< 5	< 0.5	45,000	< 2	< 10	27	NS
	09/06/95	< 200 U	< 60 U	< 5 U	220	< 2 U	< 2 U	27,000	< 10 U	< 20 U	< 10 U	NA	NA	< 100 U	< 3 U	110,000	180	< 0.2 U	< 20 U	< 500 U	< 5 U	< 5 U	52,000	< 5 U	< 10 U	< 20 U	NS
	11/09/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	730
	09/04/92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	699
LF02GW04	03/20/06	190	< 1	< 5	76	< 2	< 1	48,000	< 10	< 10	6.2	NA	NA	300	< 3	14,000	24	NA	68	9,000	< 5	< 1	30,000	< 1	< 10	< 20	340
	03/15/05	150	< 1	< 5	87	< 2	< 1	52,000	< 10	< 10	4.2	NA	NA	440	< 3	21,000	14	NA	61	6,700	< 5	< 1	45,000	< 1	< 10	< 20	470
	03/16/04	< 100	< 1	< 5	110 J-	< 2	< 1	54,000	< 10	< 10	3	NA	NA	210	< 3	61,000	88	NA	29	6,700	< 5	< 1	73,000	< 1	< 10	< 20	540
	03/13/03	< 100	< 1	2.9	80	< 1	< 1	26,000	2.6	1.4	1.3	NA	NA	160	< 3	69,000	150	NA	16	3,200	< 5	< 1 UJ	59,000 J-	< 1	< 10	< 10	610
	12/03/02	< 100	< 1	4.4	88	< 1	< 1	19,000	< 1 J	1.8	< 1	NA	NA	< 100	< 3	80,000	78	NA	11	800	< 5	< 1 UJ	60,000	< 1	< 10	< 10	420
	08/27/02	< 100	< 1	4.3	400	< 1	< 1	21,000	3.7 J	< 1	< 1	NA	NA	< 100	< 3	88,000	130	NA	11	1,100	< 5	< 1 UJ	65,000	< 1	< 10	88	580
	05/29/02	< 100	1.1	3.4	440	< 1	< 1	23,000	< 1	1.1	1.7	NA	NA	130	< 3	84,000	170	NA	15	2,400	< 5	< 1 UJ	66,000	< 1	< 10	84	570
	03/11/02	< 100	1.2	2.4	460	< 1	< 1	23,000	3.6	1.2	1.9	NA	NA	200	< 3	55,000	78	NA	60	4,700	< 5	< 1 UJ	57,000	< 1	< 10	110	400
	11/28/01	< 100	1.4	4.7	710	< 1	< 1	22,000	11 J	3.1	1.1	NA	NA	< 100	< 3	98,000	110	NA	11	1,700	< 5	< 1	76,000	< 1	< 10	180	470
	08/28/01	< 100	2.6	4.3	790	< 1	< 1	19,000	< 1	1.2	2.9	NA	NA	< 100	< 3	87,000	51	NA	9.4	950	< 5	< 1	66,000	< 1	< 10	120	570
	05/15/01	< 100	< 1	4.4	110	< 1	< 1	< 500 R	1.7 J	2	< 1	NA	NA	180	< 3	< 10,000	90	NA	10	750 J	< 5	< 1	< 10,000	< 1	< 10	14	560
	05/12/99	< 100	< 5	< 5	113	< 4	< 2	21,600	< 10	< 10	< 10	NA	NA	< 100	< 3	83,800	131	< 0.2	< 20	< 5,000	< 5	< 2	64,800	< 2	< 10	< 20	619
	02/11/99	< 100	< 5	< 5	117	< 4	< 2	20,500	< 10	< 10	< 10	NA	NA	< 100	< 3	90,100	66.8	NA	< 20	< 5,000	< 5	< 2	64,100	< 2	< 10	< 20	931
	11/11/98	< 100	< 5	< 5	115	< 4	< 2	20,000	< 10	< 10	14.3	NA	NA	258	< 3	87,700	58.1	< 0.2	< 20	< 5,000	< 5	< 2	59,800	3.6	< 10	38.2	593
	08/13/98	< 100	< 5	5.6	120	< 4	< 2	21,000	< 10	< 10	< 10	NA	NA	< 100	< 3	93,000	52	< 0.2	< 20	< 5,000	< 5	< 2	67,000	< 2	< 10	< 20	530
	04/13/98	< 100	< 5	< 5	140	< 4	< 2	25,000	< 10	< 10	15	NA	NA	< 100	< 3	110,000	65	< 0.2	< 20	< 5,000	< 5	< 2	74,000	< 2	< 10	22	720
	01/07/98	< 100	< 5	< 5	103	< 4	< 2	19,500	< 10	< 10	< 10	< 10	0.72	< 100	< 3	84,500	50.4	< 0.2	< 20	< 5,000	< 5	< 2	62,600	< 2	< 10	< 20	597
	11/04/97	< 100	< 5	< 5	110	< 4	< 2	19,000	< 10	< 10	< 10	NA	NA	< 100	< 3	87,000	50	< 0.2	< 20	< 5,000	< 5	< 2	64,000	< 2	< 10	< 20	620
	08/05/97	< 100	< 5	< 5	120	< 4	< 2	23,000	< 10	< 10	< 10	NA	NA	< 100	< 3	100,000	58	< 0.2	< 20	< 5,000	< 5	< 2	66,000	< 2	< 10	< 20	630
	05/06/97	< 100	< 5	< 5	120	< 4	< 2	21,000	< 10	< 10	< 10	NA	NA	< 100	< 3	97,000	56	< 0.2	< 20	< 5,000	< 5	< 2	61,000	< 2	< 10	< 20	640
	02/04/97	< 100	< 5	< 5	110	< 4	< 2	19,000	< 10	< 10	< 10	NA	NA	< 100	< 3	85,000	47	< 0.2	< 20	< 5,000	< 5	< 2	64,000	< 2	< 10	< 20	590 (J29)
	11/01/96	< 100 U	< 5 U	10	120	< 4 U	< 2 U	22,000	< 10 U	< 10 U	< 10 U	NA	NA	< 100 U	< 3 U	97,000	59	< 0.2 U	< 20 U	< 5,000 U	< 5 U	< 2 U	60,000	< 2 U	< 10 U	< 20 U	NS
	08/01/96	< 100 U	< 5 U	< 5 U	110	< 2 U	< 0.5 U	24,000	< 1 U	< 10 U	3	NA	NA	< 100 U	< 1 U	100,000	53	< 0.2 U	12	< 5,000 U	< 5 U	< 0.5 U	68,000	< 2 U	< 10 U	< 20 U	NS
	05/21/96	< 100 U	< 5 U	< 5 U	110	< 2 U	< 0.5 U	21,000	< 1 U	< 10 U	3	NA	NA	< 100 U	< 1 U	92,000	56	< 0.2 U	< 5 U	< 5,000 U	< 5 U	< 0.5 U	60,000	< 2 U	< 10 U	< 20 U	NS
	03/06/96	< 100 U	< 5 U	< 5 U	110	< 2 U	< 0.5 U	21,800	2	< 10 U	< 1 U	NA	NA	< 100 U	1	99,400	54	< 0.2 U	9	< 5,000 U	< 5 U	< 0.5 U	60,000	< 2 U	< 10 U	< 20 U	NS
	12/11/95	< 100	< 5	< 5	110	< 2	< 0.5	21,800	3	< 10	< 1	NA	NA	< 100	< 1	96,700	90	< 0.2	< 5	< 5,000	< 5	< 0.5	71,000	< 2	< 10	< 20	NS
	09/11/95	310	< 60 U	< 5 U	110	< 2 U	< 2 U	20,000	< 10 U	< 20 U	< 10 U	NA	NA	120	< 3 U	88,000	230	< 0.2 U	30	540	7.9	< 5 U	58,000	< 5 U	< 10 U	< 20 U	NS

Notes
1 The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
µg/L - micrograms per liter
mg/L - milligrams per liter
NA - Not analyzed
CL suffix denotes a quality control duplicated sample was sent to the control laboratory.
Groundwater samples collected from all site monitoring wells were field filtered and analyzed for dissolved metals.
All metal results represent dissolved metals, unless indicated as "total" in the left-hand column, for total metal results.
The surface water sample collected from seep EPSP01 were analyzed for total metals during the First Quarter 2004.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-6-4
Results of TPH Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
EPSP01	05/13/99	< 50	81 (J25)	< 300
	02/10/99	< 50	< 50	< 300
	12/04/98	< 50	75 (J25)	< 300
	04/17/98	NA	< 50	< 300
	03/09/98	< 50	< 50	< 300
	01/08/98	< 50	2,300 (J25)	1,800 (J25)
	09/04/92	NA	< 50	NA
LF01GW01	02/08/99	NA	< 50	< 300
	10/29/96	< 50	< 50	< 300
	08/01/96	< 50	< 50	< 300
	05/23/96	< 50	< 50	< 300
	03/08/96	< 50	< 50	470 (J32)
	12/15/95	< 50	< 50	< 300
	09/13/95	< 50	< 50	< 1,300
	08/26/92	NA	< 50	NA
LF01GW02	02/09/99	NA	< 50	< 300
	10/29/96	< 50	< 50	< 300
	08/01/96	< 50	< 50	< 300
	05/23/96	< 50	< 50	< 300
	03/08/96	< 50	< 50	2,200 (J32)
	12/15/95	< 50	< 50	< 300
	09/13/95	< 50	< 50	< 1300
	08/26/92	NA	< 50	NA
LF01GW03	02/08/99	NA	< 50	< 300
	10/30/96	< 50	< 50	< 300
	08/05/96	< 50	< 50	< 300
	05/22/96	< 50	< 50	< 300
	03/08/96	< 50	< 50	3,030 (J32)
	12/15/95	< 50	< 50	< 300
	09/13/95	< 50	< 50	< 1,300
	09/10/92	< 50	NA	NA
LF01GW04	02/10/99	NA	59 (J25)	303 (J25)
	10/30/96	< 50	< 50	< 300
	08/05/96	< 50	< 50	< 300
	05/21/96	< 50	< 50	< 300
	03/11/96	< 50	< 50	586 (J32)
	12/18/95	< 50	< 50	< 300
	09/14/95	< 50	< 50	< 1,300
	09/10/92	< 50	NA	NA

Table A-6-4
Results of TPH Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
LF01GW05	02/11/99	NA	< 50	< 300
	10/31/96	< 50	< 50	< 300
	08/06/96	< 50	< 50	< 300
	05/22/96	< 50	< 50	< 300
	03/12/96	< 50	< 50	327 (J32)
	12/19/95	< 50	< 50	< 300
	09/15/95	< 50	< 50	< 1300
	09/10/92	< 50	NA	NA
LF01GW06	03/12/02	< 50	< 50	< 300
	05/17/01	< 50	< 50	< 300
	02/10/99	< 50	< 50	< 300
	01/06/98	< 50	< 50	< 300
	10/30/96	< 50	< 50	< 300
	08/05/96	< 50	< 50	< 300
	05/23/96	< 50	< 50	< 300
	03/11/96	< 50	< 50 (U6)	1,990 (J32, J6)
	12/18/95	< 50	< 50	< 300
	09/14/95	< 50	< 50	< 1,300
	08/28/92	< 50	NA	NA
LF01GW07	02/08/99	NA	< 50	< 300
	10/31/96	< 50	< 50	< 300
	08/06/96	< 50	< 50	< 300
	05/22/96	< 50	< 50	< 300
	03/12/96	< 50	< 50	< 300
	12/19/95	< 50	< 50	< 300
	09/15/95	< 50	< 50	< 1,300
LF02GW01	02/09/99	NA	< 50	< 300
	10/28/96	< 50	< 50	< 300
	07/31/96	< 50	< 50	< 300
	05/21/96	< 50	< 50	< 300
	03/04/96	< 50	80 (J32)	1,600 (J32)
	12/11/95	< 50	< 50	< 300
	09/08/95	< 50	< 50	< 1,300
	08/28/92	NA	70	NA
LF02GW02	03/11/02	< 50	< 50	< 300
DUP0311022B	03/11/02	< 50	< 50	< 300
LF02GW02CL	03/11/02	< 50	< 50	< 300
	05/17/01	< 50	< 50	< 300
	02/10/99	< 50	< 50	< 300
	01/07/98	< 50	< 50	< 300
	10/28/96	< 50	< 50	< 300
	07/31/96	< 50	< 50	< 300
	05/22/96	< 50	< 50	< 300

Table A-6-4
Results of TPH Analyses
Fill Site 1, Landfill 2, El Polin Spring, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
LF02GW02	03/04/96	< 50	55 (J32)	1,200 (J32)
	12/11/95	< 50	< 50	< 300
	09/06/95	< 50	< 50	< 1,300
	09/04/92	NA	< 50	NA
LF02GW04	02/11/99	NA	< 50	< 300
	11/01/96	< 50	< 50	< 300
	08/01/96	< 50	< 50	< 300
	05/21/96	< 50	< 50	< 300
	03/06/96	< 50	< 50	310 (J32)
	12/11/95	< 50	< 50	< 300
	09/11/95	< 50	< 50	< 1,300
100GW101	12/05/03	< 50	< 50	< 300
DUP1205032A	12/05/03	< 50	< 50	< 300
100GW101CL	12/05/03	< 50	< 48	< 240
	08/21/03	< 50	< 50	NA
	06/10/03	< 50	< 50	< 300
	03/13/03	< 50	< 50	NA
	12/06/02	< 50	< 50	< 300
	10/10/02	< 27	< 20	< 360
104GW101	12/05/03	< 50	< 50	< 300
	08/21/03	< 50	< 50	NA
	06/10/03	< 50	< 50	< 300
	03/14/03	< 50	< 50	< 300
	12/06/02	< 50	< 50	< 300
	10/10/02	58	< 20	< 360

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
µg/L - micrograms per liter
NA - Not analyzed
TPH - Total petroleum hydrocarbons
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-6-5
Groundwater Elevation Summary
Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, Upgradient, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF01GW01	05/22/06	5.42	105.31	99.89	MW
	03/06/06	3.17	105.31	102.14	MW
	11/28/05	9.95	105.31	95.36	MW
	08/29/05	7.94	105.31	97.37	MW
	05/23/05	5.81	105.31	99.50	MW
	03/14/05	5.17	105.31	100.14	MW
	12/13/04	9.04	105.31	96.27	MW
	08/09/04	8.72	105.31	96.59	MW
	05/24/04	6.86	105.31	98.45	MW
	03/08/04	5.33	105.31	99.98	MW
	12/01/03	10.55	105.31	94.76	MW
	08/11/03	8.48	105.31	96.83	MW
	06/02/03	6.37	105.31	98.94	MW
	03/10/03	5.57	105.31	99.74	MW
	12/02/02	11.08	105.31	94.23	MW
	08/26/02	9.79	105.31	95.52	MW
	05/28/02	6.76	105.31	98.55	MW
	03/04/02	5.49	105.31	99.82	MW
	11/26/01	10.30	105.31	95.01	MW
	08/27/01	10.12	105.31	95.19	MW
	05/08/01	3.88	105.31	101.43	MW
LF01GW02	05/22/06	22.12	98.98	76.86	MW
	03/06/06	26.00	98.98	72.98	MW
	11/28/05	27.37	98.98	71.61	MW
	08/29/05	26.75	98.98	72.23	MW
	05/23/05	28.81	98.98	70.17	MW
	03/14/05	31.38	98.98	67.60	MW
	12/13/04	32.75	98.98	66.23	MW
	08/09/04	31.45	98.98	67.53	MW
	05/24/04	31.04	98.98	67.94	MW
	03/08/04	31.83	98.98	67.15	MW
	12/01/03	32.04	98.98	66.94	MW
	08/11/03	30.74	98.98	68.24	MW
	06/02/03	30.03	98.98	68.95	MW
	03/10/03	30.53	98.98	68.45	MW
	12/02/02	31.15	98.98	67.83	MW
	08/26/02	29.78	98.98	69.20	MW
	05/28/02	29.34	98.98	69.64	MW
	03/04/02	30.68	98.98	68.30	MW
	11/26/01	31.73	98.98	67.25	MW
	08/27/01	30.28	98.98	68.70	MW
	05/08/01	29.32	98.98	69.66	MW

Table A-6-5
Groundwater Elevation Summary
Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, Upgradient, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF01GW03	05/22/06	44.80	151.82	107.02	MW
	03/06/06	48.20	151.82	103.62	MW
	11/28/05	50.62	151.82	101.20	MW
	08/29/05	49.42	151.82	102.40	MW
	05/23/05	49.35	151.82	102.47	MW
	03/14/05	51.36	151.82	100.46	MW
	12/13/04	54.17	151.82	97.65	MW
	08/09/04	52.83	151.82	98.99	MW
	05/24/04	52.05	151.82	99.77	MW
	03/08/04	52.37	151.82	99.45	MW
	12/01/03	54.20	151.82	97.62	MW
	08/11/03	52.6	151.82	99.22	MW
	06/02/03	51.69	151.82	100.13	MW
	03/10/03	51.93	151.82	99.89	MW
	12/02/02	53.61	151.82	98.21	MW
	08/26/02	51.99	151.82	99.83	MW
	05/28/02	50.76	151.82	101.06	MW
	03/04/02	51.32	151.82	100.50	MW
	11/26/01	54.20	151.82	97.62	MW
	08/27/01	53.21	151.82	98.61	MW
	05/08/01	52.08	151.82	99.74	MW
LF01GW04	05/22/06	51.41	159.39	107.98	MW
	03/06/06	55.18	159.39	104.21	MW
	11/28/05	56.02	159.39	103.37	MW
	08/29/05	55.23	159.39	104.16	MW
	05/23/05	56.32	159.39	103.07	MW
	03/14/05	59.52	159.39	99.87	MW
	12/13/04	60.87	159.39	98.52	MW
	08/09/04	59.69	159.39	99.70	MW
	05/24/04	59.43	159.39	99.96	MW
	03/08/04	60.46	159.39	98.93	MW
	12/01/03	60.47	159.39	98.92	MW
	08/11/03	59.47	159.39	99.92	MW
	06/02/03	58.78	159.39	100.61	MW
	03/10/03	59.40	159.39	99.99	MW
	12/02/02	59.50	159.39	99.89	MW
	08/26/02	58.26	159.39	101.13	MW
	05/28/02	57.87	159.39	101.52	MW
	03/04/02	59.50	159.39	99.89	MW
	11/26/01	60.46	159.39	98.93	MW
	08/27/01	59.48	159.39	99.91	MW
	05/08/01	59.03	159.39	100.36	MW

Table A-6-5
Groundwater Elevation Summary
Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, Upgradient, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF01GW05	05/22/06	12.85	83.72	70.87	MW
	03/06/06	8.82	83.72	74.90	MW
	11/28/05	13.54	83.72	70.18	MW
	08/29/05	11.43	83.72	72.29	MW
	05/23/05	10.96	83.72	72.76	MW
	03/14/05	11.64	83.72	72.08	MW
	12/13/04	17.46	83.72	66.26	MW
	08/09/04	15.20	83.72	68.52	MW
	05/24/04	12.38	83.72	71.34	MW
	03/08/04	11.42	83.72	72.30	MW
	12/01/03	17.08	83.72	66.64	MW
	08/11/03	13.39	83.72	70.33	MW
	06/02/03	11.17	83.72	72.55	MW
	03/10/03	10.75	83.72	72.97	MW
	12/02/02	16.67	83.72	67.05	MW
	08/26/02	13.72	83.72	70.00	MW
	05/28/02	11.22	83.72	72.50	MW
	03/04/02	11.25	83.72	72.47	MW
	11/26/01	18.35	83.72	65.37	MW
	08/27/01	15.30	83.72	68.42	MW
	05/08/01	11.23	83.72	72.49	MW
LF01GW06	05/22/06	60.98	145.23	84.25	MW
	03/06/06	50.80	145.23	94.43	MW
	11/28/05	66.31	145.23	78.92	MW
	08/29/05	65.43	145.23	79.80	MW
	05/23/05	67.50	145.23	77.73	MW
	03/14/05	70.34	145.23	74.89	MW
	12/13/04	71.61	145.23	73.62	MW
	08/09/04	70.20	145.23	75.03	MW
	05/24/04	69.95	145.23	75.28	MW
	03/08/04	70.90	145.23	74.33	MW
	12/01/03	70.87	145.23	74.36	MW
	08/11/03	69.76	145.23	75.47	MW
	06/02/03	69.11	145.23	76.12	MW
	03/10/03	69.60	145.23	75.63	MW
	12/02/02	69.93	145.23	75.30	MW
	08/26/02	68.69	145.23	76.54	MW
	05/28/02	68.36	145.23	76.87	MW
	03/04/02	69.87	145.23	75.36	MW
	11/26/01	70.69	145.23	74.54	MW
	08/27/01	69.51	145.23	75.72	MW
	05/08/01	68.88	145.23	76.35	MW

Table A-6-5
Groundwater Elevation Summary
Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, Upgradient, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF01GW07	05/22/06	52.94	162.00	109.06	MW
	03/06/06	55.74	162.00	106.26	MW
	11/28/05	57.10	162.00	104.90	MW
	08/29/05	56.45	162.00	105.55	MW
	05/23/05	56.68	162.00	105.32	MW
	03/14/05	58.38	162.00	103.62	MW
	12/13/04	60.02	162.00	101.98	MW
	08/09/04	59.13	162.00	102.87	MW
	05/24/04	58.66	162.00	103.34	MW
	03/08/04	59.18	162.00	102.82	MW
	12/01/03	59.88	162.00	102.12	MW
	08/11/03	58.96	162.00	103.04	MW
	06/02/03	58.33	162.00	103.67	MW
	03/10/03	58.68	162.00	103.32	MW
	12/02/02	59.39	162.00	102.61	MW
	08/26/02	58.40	162.00	103.60	MW
	05/28/02	57.79	162.00	104.21	MW
	03/04/02	58.42	162.00	103.58	MW
	11/26/01	59.96	162.00	102.04	MW
	08/27/01	59.26	162.00	102.74	MW
	05/08/01	58.92	162.00	103.08	MW
EPSP01	05/22/06	flowing	--	--	Surface
	03/06/06	flowing	--	--	Surface
	11/28/05	flowing	--	--	Surface
	08/29/05	flowing	--	--	Surface
	05/23/05	flowing	--	--	Surface
	03/14/05	flowing	--	--	Surface
	12/13/04	flowing	--	--	Surface
	08/09/04	flowing	--	--	Surface
	05/24/04	flowing	--	--	Surface
	03/08/04	flowing	--	--	Surface
	12/01/03	flowing	--	--	Surface
	08/11/03	flowing	--	--	Surface
	06/02/03	flowing	--	--	Surface
	03/10/03	--	--	--	Surface
	12/02/02	--	--	--	Surface
	08/26/02	--	--	--	Surface
	05/28/02	--	--	--	Surface
	03/04/02	--	--	--	Surface
	11/26/01	--	--	--	Surface
	08/27/01	--	--	--	Surface
	05/08/01	--	--	--	Surface

Table A-6-5
Groundwater Elevation Summary
Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, Upgradient, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF02GW01	05/22/06	0.78	98.57	97.79	MW
	03/06/06	2.80	98.57	95.77	MW
	11/28/05	3.25	98.57	95.32	MW
	08/29/05	3.80	98.57	94.77	MW
	05/23/05	3.28	98.57	95.29	MW
	03/14/05	2.35	98.57	96.22	MW
	12/13/04	2.48	98.57	96.09	MW
	08/09/04	2.63	98.57	95.94	MW
	05/24/04	2.25	98.57	96.32	MW
	03/08/04	2.54	98.57	96.03	MW
	12/01/03	2.93	98.57	95.64	MW
	08/11/03	2.41	98.57	96.16	MW
	06/02/03	2.04	98.57	96.53	MW
	03/10/03	0.94	98.57	97.63	MW
	12/02/02	3.46	98.57	95.11	MW
	08/26/02	3.05	98.57	95.52	MW
	05/28/02	2.46	98.57	96.11	MW
	03/04/02	1.91	98.57	96.66	MW
	11/26/01	5.67	98.57	92.90	MW
	08/27/01	4.14	98.57	94.43	MW
	05/08/01	2.15	98.57	96.42	MW
LF02GW02	05/22/06	1.45	101.99	100.54	MW
	03/06/06	1.31	101.99	100.68	MW
	11/28/05	3.65	101.99	98.34	MW
	08/29/05	3.65	101.99	98.34	MW
	05/23/05	1.11	101.99	100.88	MW
	03/14/05	1.11	101.99	100.88	MW
	12/13/04	3.72	101.99	98.27	MW
	08/09/04	4.41	101.99	97.58	MW
	05/24/04	1.94	101.99	100.05	MW
	03/08/04	1.41	101.99	100.58	MW
	12/01/03	4.70	101.99	97.29	MW
	08/11/03	4.48	101.99	97.51	MW
	06/02/03	1.98	101.99	100.01	MW
	03/10/03	1.34	101.99	100.65	MW
	12/02/02	4.66	101.99	97.33	MW
	08/26/02	4.34	101.99	97.65	MW
	05/28/02	2.12	101.99	99.87	MW
	03/04/02	1.40	101.99	100.59	MW
	11/26/01	4.81	101.99	97.18	MW
	08/27/01	5.33	101.99	96.66	MW
	05/08/01	2.03	101.99	99.96	MW

Table A-6-5
Groundwater Elevation Summary
Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, Upgradient, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF02GW04	05/22/06	15.10	172.60	157.50	MW
	03/06/06	14.78	172.60	157.82	MW
	11/28/05	20.82	172.60	151.78	MW
	08/29/05	19.68	172.60	152.92	MW
	05/23/05	17.69	172.60	154.91	MW
	03/14/05	14.93	172.60	157.67	MW
	12/13/04	20.38	172.60	152.22	MW
	08/09/04	20.96	172.60	151.64	MW
	05/24/04	19.90	172.60	152.70	MW
	03/08/04	17.08	172.60	155.52	MW
	12/01/03	21.49	172.60	151.11	MW
	08/11/03	20.89	172.60	151.71	MW
	06/02/03	19.38	172.60	153.22	MW
	03/10/03	18.30	172.60	154.30	MW
	12/02/02	21.51	172.60	151.09	MW
	08/26/02	20.89	172.60	151.71	MW
	05/28/02	19.27	172.60	153.33	MW
	03/04/02	17.65	172.60	154.95	MW
	11/26/01	21.44	172.60	151.16	MW
	08/27/01	21.72	172.60	150.88	MW
	05/08/01	19.90	172.60	152.70	MW
TH-1	05/22/06	14.55	80.76	66.21	MW
	03/06/06	15.47	80.76	65.29	MW
	11/28/05	20.11	80.76	60.65	MW
	08/29/05	19.11	80.76	61.65	MW
	05/23/05	18.51	80.76	62.25	MW
	03/14/05	18.62	80.76	62.14	MW
	12/13/04	23.12	80.76	57.64	MW
	08/09/04	23.58	80.76	57.18	MW
	05/24/04	23.20	80.76	57.56	MW
	03/08/04	21.75	80.76	59.01	MW
	12/01/03	25.20	80.76	55.56	MW
	08/11/03	23.67	80.76	57.09	MW
	06/02/03	22.60	80.76	58.16	MW
	03/10/03	22.24	80.76	58.52	MW
	12/02/02	24.52	80.76	56.24	MW
	08/26/02	23.52	80.76	57.24	MW
	05/28/02	22.47	80.76	58.29	MW
	03/04/02	21.54	80.76	59.22	MW
	11/26/01	24.59	80.76	56.17	MW
	08/27/01	23.69	80.76	57.07	MW
	05/08/01	21.98	80.76	58.78	MW

Table A-6-5
Groundwater Elevation Summary
Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, Upgradient, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
TH-2	05/22/06	52.44	111.26	58.82	MW
	03/06/06	55.06	111.26	56.20	MW
	11/28/05	57.03	111.26	54.23	MW
	08/29/05	56.60	111.26	54.66	MW
	05/23/05	56.91	111.26	54.35	MW
	03/14/05	58.40	111.26	52.86	MW
	12/13/04	60.75	111.26	50.51	MW
	08/09/04	60.00	111.26	51.26	MW
	05/24/04	59.56	111.26	51.70	MW
	03/08/04	59.56	111.26	51.70	MW
	12/01/03	60.71	111.26	50.55	MW
	08/11/03	59.62	111.26	51.64	MW
	06/02/03	58.91	111.26	52.35	MW
	03/10/03	58.91	111.26	52.35	MW
	12/02/02	50.90	111.26	60.36	MW
	08/26/02	59.06	111.26	52.20	MW
	05/28/02	58.49	111.26	52.77	MW
	03/04/02	58.70	111.26	52.56	MW
	11/26/01	60.14	111.26	51.12	MW
	08/27/01	59.10	111.26	52.16	MW
	05/08/01	58.06	111.26	53.20	MW
TH-3	05/22/06	7.30	64.68	57.38	MW
	03/06/06	9.67	64.68	55.01	MW
	11/28/05	11.82	64.68	52.86	MW
	08/29/05	11.36	64.68	53.32	MW
	05/23/05	11.57	64.68	53.11	MW
	03/14/05	13.11	64.68	51.57	MW
	12/13/04	15.30	64.68	49.38	MW
	08/09/04	14.73	64.68	49.95	MW
	05/24/04	14.00	64.68	50.68	MW
	03/08/04	13.93	64.68	50.75	MW
	12/01/03	15.19	64.68	49.49	MW
	08/11/03	14.1	64.68	50.58	MW
	06/02/03	13.44	64.68	51.24	MW
	03/10/03	13.45	64.68	51.23	MW
	12/02/02	14.31	64.68	50.37	MW
	08/26/02	13.67	64.68	51.01	MW
	05/28/02	13.06	64.68	51.62	MW
	03/04/02	13.25	64.68	51.43	MW
	11/26/01	14.73	64.68	49.95	MW
	08/27/01	13.69	64.68	50.99	MW
	05/08/01	12.45	64.68	52.23	MW

Table A-6-5
Groundwater Elevation Summary
Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, Upgradient, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
TH-4	05/22/06	0.15	44.59	44.44	MW
	03/06/06	0.56	44.59	44.03	MW
	11/28/05	2.31	44.59	42.28	MW
	08/29/05	2.09	44.59	42.50	MW
	05/23/05	1.90	44.59	42.69	MW
	03/14/05	2.30	44.59	42.29	MW
	12/13/04	3.88	44.59	40.71	MW
	08/09/04	4.11	44.59	40.48	MW
	05/24/04	3.69	44.59	40.90	MW
	03/08/04	3.02	44.59	41.57	MW
	12/01/03	4.21	44.59	40.38	MW
	08/11/03	3.95	44.59	40.64	MW
	06/02/03	3.32	44.59	41.27	MW
	03/10/03	2.92	44.59	41.67	MW
	12/02/02	3.72	44.59	40.87	MW
	08/26/02	3.32	44.59	41.27	MW
	05/28/02	2.82	44.59	41.77	MW
	03/04/02	2.43	44.59	42.16	MW
	11/26/01	3.60	44.59	40.99	MW
	08/27/01	3.50	44.59	41.09	MW
	05/08/01	2.69	44.59	41.90	MW
UBR01GW01	05/22/06	NM	164.71	NM	MW
	03/06/06	NM	164.71	NM	MW
	11/28/05	NM	164.71	NM	MW
	08/29/05	22.83	164.71	141.88	MW
	05/23/05	18.34	164.71	146.37	MW
	03/14/05	13.67	164.71	151.04	MW
	12/13/04	28.36	164.71	136.35	MW
	08/09/04	24.38	164.71	140.33	MW
	05/24/04	21.17	164.71	143.54	MW
	03/08/04	14.33	164.71	150.38	MW
	12/01/03	27.66	164.71	137.05	MW
	08/11/03	23.86	164.71	140.85	MW
	06/02/03	20.87	164.71	143.84	MW
	03/10/03	20.12	164.71	144.59	MW
	12/02/02	28.65	164.71	136.06	MW
	08/26/02	25.66	164.71	139.05	MW
	05/28/02	22.21	164.71	142.50	MW
	03/04/02	20.55	164.71	144.16	MW
	11/26/01	34.02	164.71	130.69	MW
	08/27/01	31.36	164.71	133.35	MW
	05/08/01	27.32	164.71	137.39	MW

Table A-6-5
Groundwater Elevation Summary
Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, Upgradient, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
UBR02GW01	05/22/06	6.44	253.39	246.95	MW
	03/06/06	8.80	253.39	244.59	MW
	11/28/05	13.06	253.39	240.33	MW
	08/29/05	10.34	253.39	243.05	MW
	05/23/05	8.52	253.39	244.87	MW
	03/14/05	10.13	253.39	243.26	MW
	12/13/04	15.06	253.39	238.33	MW
	08/09/04	14.09	253.39	239.30	MW
	05/24/04	11.74	253.39	241.65	MW
	03/08/04	11.20	253.39	242.19	MW
	12/01/03	15.55	253.39	237.84	MW
	08/11/03	13.92	253.39	239.47	MW
	06/02/03	11.21	253.39	242.18	MW
	03/10/03	12.04	253.39	241.35	MW
	12/02/02	15.60	253.39	237.79	MW
	08/26/02	13.92	253.39	239.47	MW
	05/28/02	10.62	253.39	242.77	MW
	03/04/02	11.47	253.39	241.92	MW
	11/26/01	16.40	253.39	236.99	MW
	08/27/01	15.77	253.39	237.62	MW
	05/08/01	12.91	253.39	240.48	MW
UBR02GW02	05/22/06	6.61	253.56	246.95	MW
	03/06/06	9.00	253.56	244.56	MW
	11/28/05	13.30	253.56	240.26	MW
	08/29/05	10.53	253.56	243.03	MW
	05/23/05	8.73	253.56	244.83	MW
	03/14/05	10.33	253.56	243.23	MW
	12/13/04	15.27	253.56	238.29	MW
	08/09/04	14.38	253.56	239.18	MW
	05/24/04	11.95	253.56	241.61	MW
	03/08/04	11.41	253.56	242.15	MW
	12/01/03	15.75	253.56	237.81	MW
	08/11/03	14.1	253.56	239.46	MW
	06/02/03	11.39	253.56	242.17	MW
	03/10/03	12.22	253.56	241.34	MW
	12/02/02	15.77	253.56	237.79	MW
	08/26/02	14.09	253.56	239.47	MW
	05/28/02	10.75	253.56	242.81	MW
	03/04/02	11.65	253.56	241.91	MW
	11/26/01	16.57	253.56	236.99	MW
	08/27/01	15.94	253.56	237.62	MW
	05/08/01	13.10	253.56	240.46	MW

Table A-6-5
Groundwater Elevation Summary
Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, Upgradient, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
UBR03GW01	05/22/06	30.25	171.22	140.97	MW
	03/06/06	33.51	171.22	137.71	MW
	11/28/05	38.37	171.22	132.85	MW
	08/29/05	35.54	171.22	135.68	MW
	05/23/05	35.52	171.22	135.70	MW
	03/14/05	41.09	171.22	130.13	MW
	12/13/04	45.14	171.22	126.08	MW
	08/09/04	43.58	171.22	127.64	MW
	05/24/04	44.16	171.22	127.06	MW
	03/08/04	46.21	171.22	125.01	MW
	12/01/03	46.92	171.22	124.30	MW
	08/11/03	46.52	171.22	124.70	MW
	06/02/03	46.33	171.22	124.89	MW
	03/10/03	46.92	171.22	124.30	MW
	12/02/02	47.22	171.22	124.00	MW
	08/26/02	46.44	171.22	124.78	MW
	05/28/02	46.32	171.22	124.90	MW
	03/04/02	46.93	171.22	124.29	MW
	11/26/01	47.64	171.22	123.58	MW
	08/27/01	46.83	171.22	124.39	MW
	05/08/01	46.45	171.22	124.77	MW
UBR03GW02	05/22/06	12.45	170.96	158.51	MW
	03/06/06	15.28	170.96	155.68	MW
	11/28/05	20.11	170.96	150.85	MW
	08/29/05	17.82	170.96	153.14	MW
	05/23/05	16.78	170.96	154.18	MW
	03/14/05	17.89	170.96	153.07	MW
	12/13/04	21.88	170.96	149.08	MW
	08/09/04	21.87	170.96	149.09	MW
	05/24/04	20.06	170.96	150.90	MW
	03/08/04	19.14	170.96	151.82	MW
	12/01/03	24.65	170.96	146.31	MW
	08/11/03	21.98	170.96	148.98	MW
	06/02/03	20.47	170.96	150.49	MW
	03/10/03	20.77	170.96	150.19	MW
	12/02/02	27.29	170.96	143.67	MW
	08/26/02	24.47	170.96	146.49	MW
	05/28/02	21.59	170.96	149.37	MW
	03/04/02	20.41	170.96	150.55	MW
	11/26/01	26.37	170.96	144.59	MW
	08/27/01	23.62	170.96	147.34	MW
	05/08/01	20.90	170.96	150.06	MW

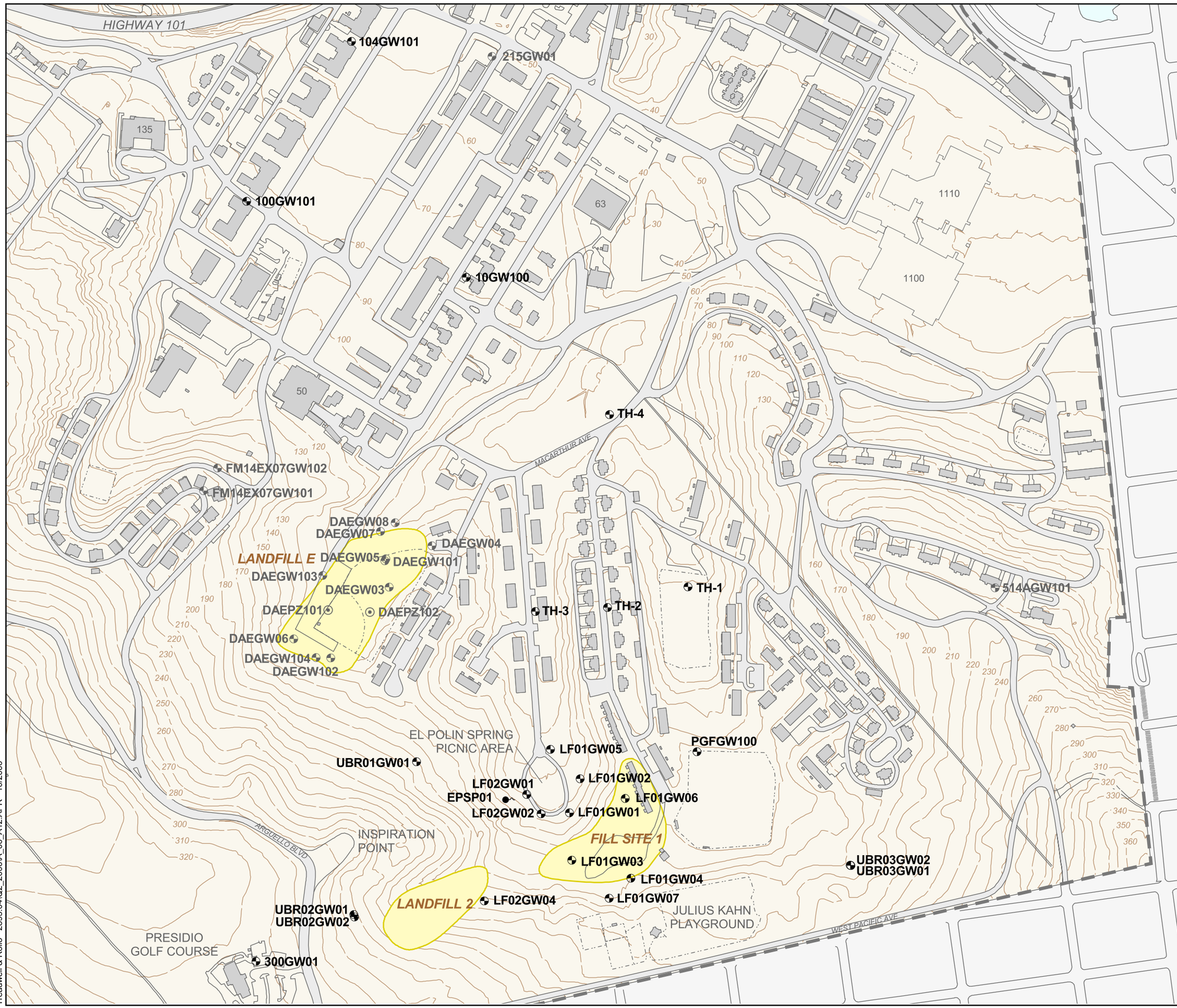
Table A-6-5
Groundwater Elevation Summary
Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, Upgradient, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
300GW01	03/06/06	NM	304.21	NM	MW
	11/28/05	29.48	304.21	274.73	MW
	03/14/05	24.99	304.21	279.22	MW
	12/13/04	32.03	304.21	272.18	MW
	08/09/04	28.56	304.21	275.65	MW
	05/24/04	26.92	304.21	277.29	MW
	03/08/04	27.04	304.21	277.17	MW
	12/01/03	32.34	304.21	271.87	MW
	08/11/03	29.77	304.21	274.44	MW
	06/02/03	28.80	304.21	275.41	MW
	03/10/03	28.41	304.21	275.80	MW
	12/02/02	32.03	304.21	272.18	MW
	08/26/02	29.73	304.21	274.48	MW
	05/28/02	27.53	304.21	276.68	MW
	03/04/02	26.78	304.21	277.43	MW
	11/26/01	33.44	304.21	270.77	MW
10GW100	05/22/06	41.96	76.88	34.92	MW
	03/06/06	43.49	76.88	33.39	MW
	11/28/05	44.45	76.88	32.43	MW
	08/29/05	43.92	76.88	32.96	MW
	05/23/05	43.27	76.88	33.61	MW
	03/14/05	44.17	76.88	32.71	MW
	12/13/04	45.50	76.88	31.38	MW
	08/09/04	45.81	76.88	31.07	MW
	05/24/04	45.44	76.88	31.44	MW
	03/08/04	45.30	76.88	31.58	MW
	12/01/03	46.21	76.88	30.67	MW
	08/11/03	45.85	76.88	31.03	MW
	06/02/03	45.40	76.88	31.48	MW
	03/10/03	44.62	76.88	32.26	MW
	12/02/02	45.00	76.88	31.88	MW
	08/26/02	45.24	76.88	31.64	MW
	05/28/02	44.60	76.88	32.28	MW
	03/04/02	43.87	76.88	33.01	MW
100GW101	05/24/04	NM	84.45	NM	MW
	03/08/04	58.17	84.45	26.28	MW
	12/01/03	58.93	84.45	25.52	MW
	08/11/03	58.57	84.45	25.88	MW
	06/02/03	58.08	84.45	26.37	MW
	03/10/03	57.53	84.45	26.92	MW
104GW101	05/24/04	NM	53.88	NM	MW
	03/08/04	35.41	53.88	18.47	MW
	12/01/03	36.65	53.88	17.23	MW
	08/11/03	36.33	53.88	17.55	MW
	06/02/03	35.97	53.88	17.91	MW
	03/10/03	35.39	53.88	18.49	MW

Table A-6-5
Groundwater Elevation Summary
Fill Site 1, Landfill 2, El Polin Spring, Tennessee Hollow, Upgradient, Buildings 10, 100, and 104
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
PGFGW100	05/22/06	33.89	133.71	99.82	MW
	03/06/06	37.23	133.71	96.48	MW
	11/28/05	39.28	133.71	94.43	MW
	08/29/05	37.96	133.71	95.75	MW
	05/23/05	37.41	133.71	96.30	MW
	03/14/05	38.82	133.71	94.89	MW
	12/13/04	41.89	133.71	91.82	MW
	08/09/04	40.61	133.71	93.10	MW
	05/24/04	39.60	133.71	94.11	MW
	03/08/04	40.10	133.71	93.61	MW
	12/01/03	41.64	133.71	92.07	MW
	08/11/03	40.64	133.71	93.07	MW
	06/02/03	39.81	133.71	93.90	MW
	03/10/03	39.57	133.71	94.14	MW
	12/02/02	41.22	133.71	92.49	MW
	08/26/02	40.10	133.71	93.61	MW
	05/28/02	39.13	133.71	94.58	MW
	03/04/02	39.06	133.71	94.65	MW

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
MW- Monitoring well
feet PLLW - feet above Presidio lower low water vertical datum
NM - Not measured



N

425 0 425 Feet

LEGEND

- LF01GW05 Groundwater Monitoring Well
- DAEGW03 Adjacent Groundwater Monitoring Well
- DAEPZ101 Adjacent Piezometer
- EPSP01 Approximate Surface Water Sample Location
- Presidio Boundary
- Recreation Area
- Topographic Contour (Contour Interval : 10 ft)
- Approximate Lateral Extent of Landfill
- 1100 Former Building and Number
- 50 Building and Number

Notes:
Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datum: (topography) North American Vertical Datum, NAVD88

FILL SITE 1, LANDFILL 2, EL POLIN SPRING, TENNESSEE HOLLOW, UPGRADIENT, BUILDING 10 WELLS SITE PLAN

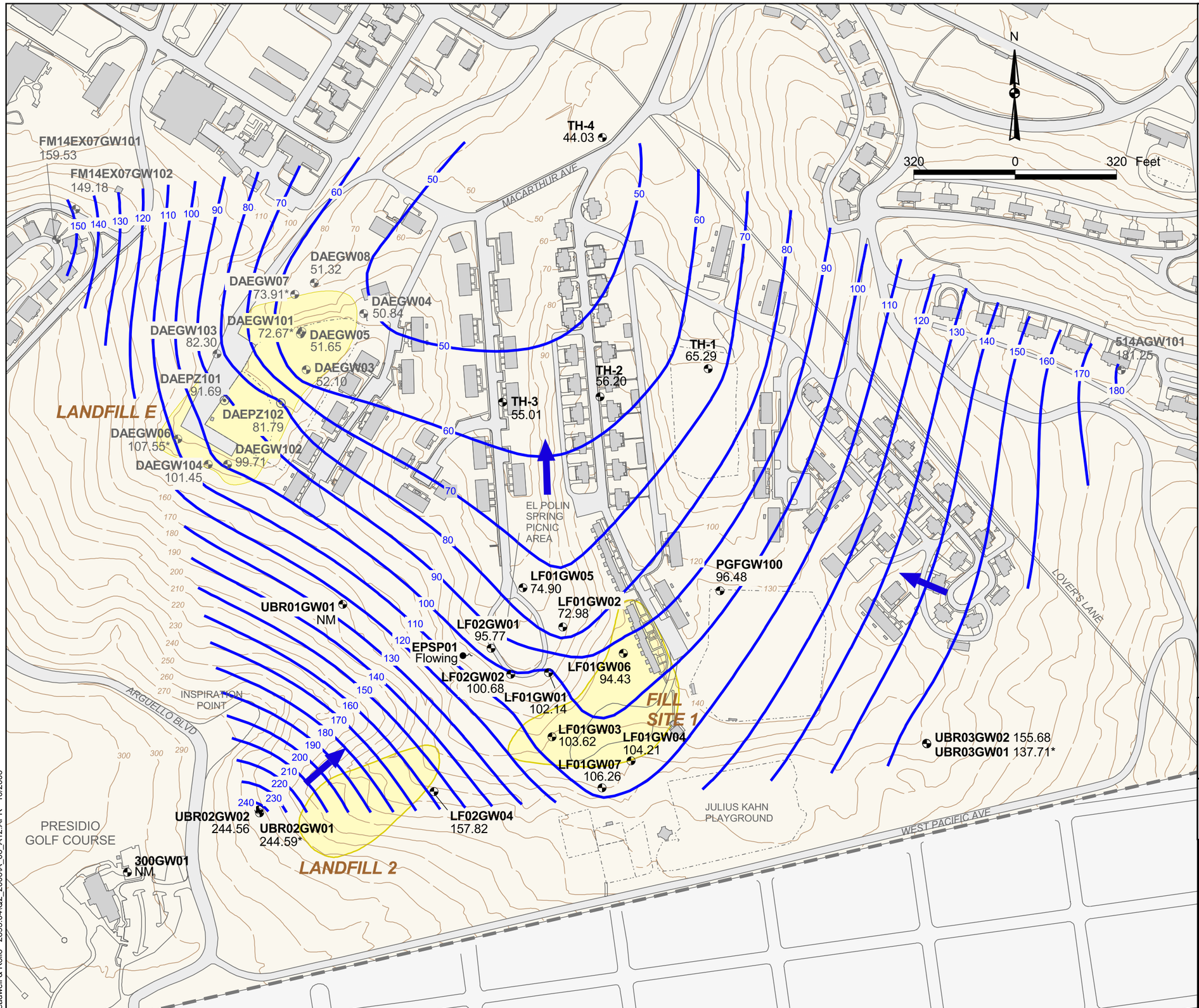
Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315
October 2006

FIGURE A-6-1

Treadwell & Rollo 2893.04\Q2_2006\A_06_A12.APR 10/2006



LEGEND

LF01GW05 74.90	Groundwater Monitoring Well March 2006 Groundwater Elevation
DAEGW03 52.10	Adjacent Groundwater Monitoring Well March 2006 Groundwater Elevation
DAEPZ101 91.69	Adjacent Piezometer March 2006 Groundwater Elevation
EPSP01	Approximate Surface Water Sample Location
*	Monitoring well not used for contouring.
NM	Not Measured
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval: 10 ft)
	Presidio Boundary
	Recreation Area
	Topographic Contour (Contour Interval: 10 ft)
	Approximate Lateral Extent of Landfill
	Building

Notes:
Groundwater elevation data collected on 6 March 2006.

Groundwater elevations for UBR02GW01 and UBR03GW01 were not used in groundwater contouring.

300GW01 was approved for removal from the groundwater monitoring program prior to the First Quarter 2006.

Landfill E wells DAEGW06 and DAEGW07 were not contoured, due to semi-confined and perched conditions, respectively. Whereas, well DAEGW101 was not contoured because it is screened in a deeper interval.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

FILL SITE 1, LANDFILL 2, EL POLIN SPRING, TENNESSEE HOLLOW, AND UPGRADIENT WELLS
6 MARCH 2006
GROUNDWATER ELEVATION MAP

Treadwell&Rollo

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Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315
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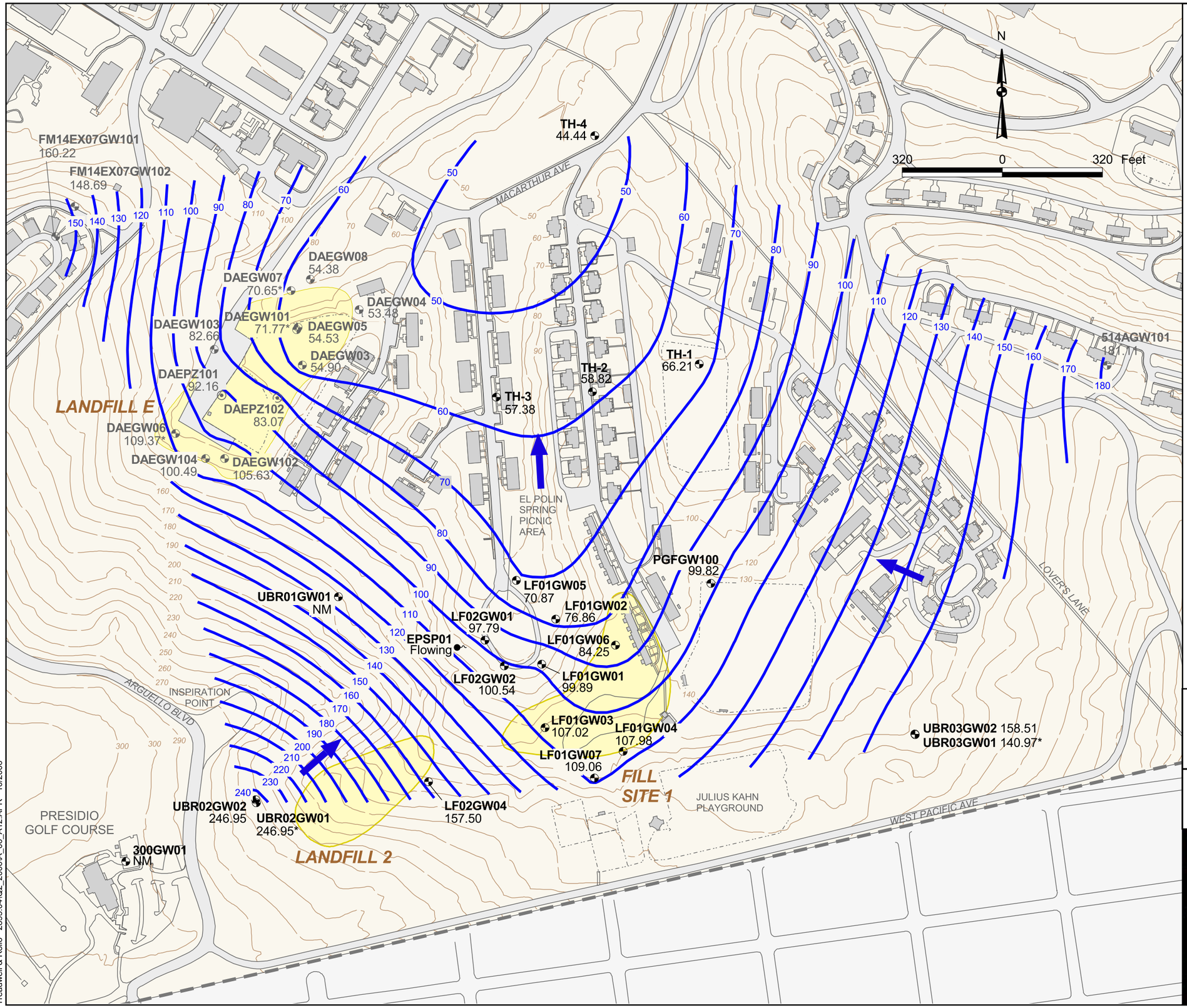
FIGURE A-6-2

Treadwell & Rollo 2893.04\Q2_2006\A_06_A12.APR 10/2006



LEGEND

LF01GW05 70.87	Groundwater Monitoring Well May 2006 Groundwater Elevation
DAEGW03 54.90	Adjacent Groundwater Monitoring Well May 2006 Groundwater Elevation
DAEPZ101 92.16	Adjacent Piezometer May 2006 Groundwater Elevation
EPSP01	Approximate Surface Water Sample Location
*	Monitoring well not used for contouring.
NM	Not Measured
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval: 10 ft)
	Presidio Boundary
	Recreation Area
	Topographic Contour (Contour Interval: 10 ft)
	Approximate Lateral Extent of Landfill
	Building

Notes:
Groundwater elevation data collected on 22 May 2006.

Groundwater elevations for UBR02GW01 and UBR03GW01 were not used in groundwater contouring.

300GW01 was approved for removal from the groundwater monitoring program prior to the First Quarter 2006.

Landfill E wells DAEGW06 and DAEGW07 were not contoured, due to semi-confined and perched conditions, respectively. Whereas, well DAEGW101 was not contoured because it is screened in a deeper interval.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

FILL SITE 1, LANDFILL 2, EL POLIN SPRING, TENNESSEE HOLLOW, AND UPGRADIENT WELLS
22 MAY 2006
GROUNDWATER ELEVATION MAP

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34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
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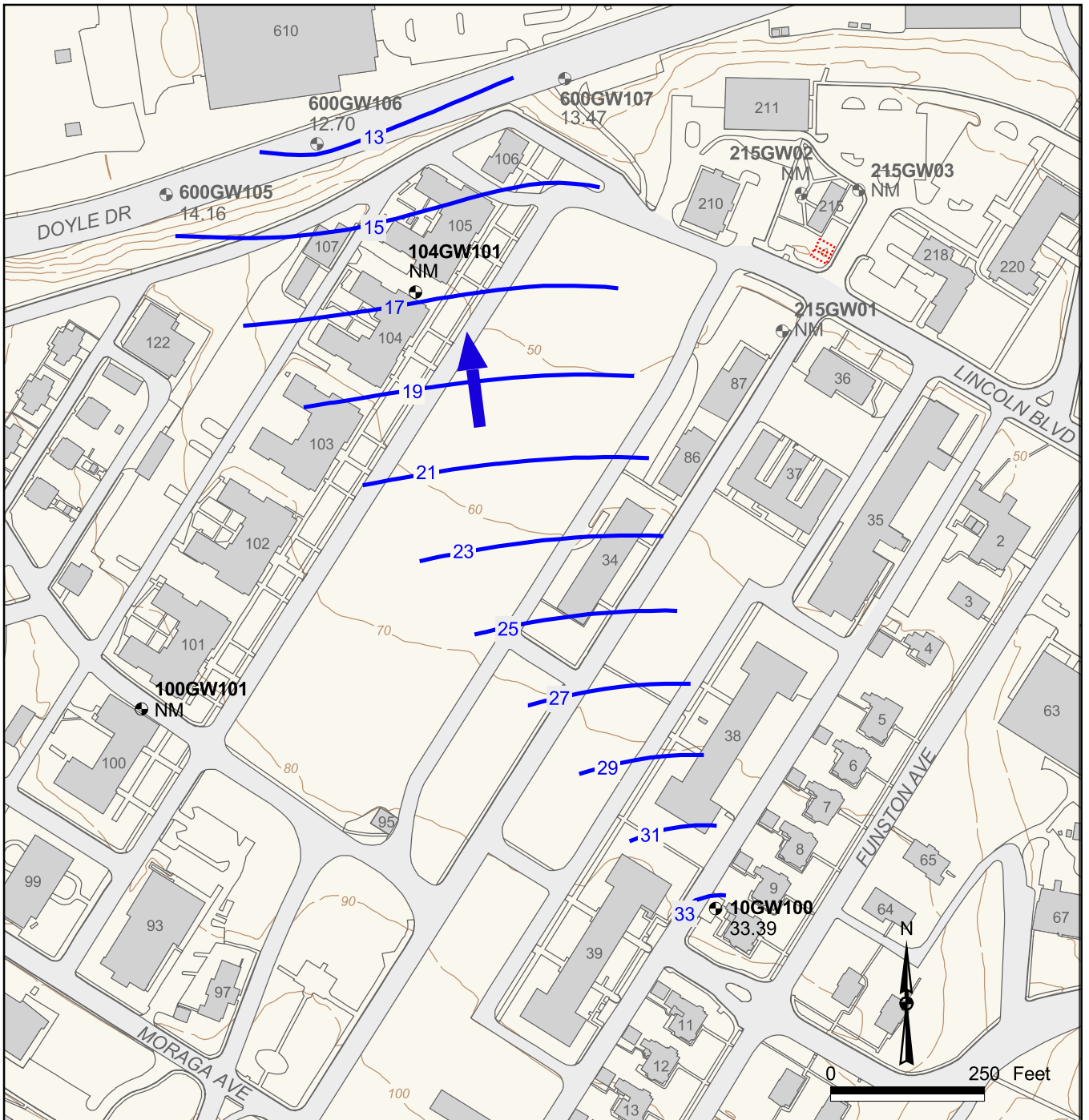
FIGURE A-6-3

Treadwell & Rollo 2893.04\Q2_2006\A_06_A12.APR 10/2006



LEGEND

- Approximate Direction of Groundwater Flow
- Groundwater Contour (Contour Interval : 2 ft)
- Topographic Contour (Contour Interval : 10 ft)
- 215 — Building and Number
- **10GW100** 33.39 — Groundwater Monitoring Well March 2006 Groundwater Elevation
- **600GW105** 14.16 — Adjacent Groundwater Monitoring Well March 2006 Groundwater Elevation
- NM — Not Measured. 100GW101 and 104GW101 were approved for removal from the groundwater monitoring program prior to the Second Quarter 2004.
- Approximate Location of Former Underground Storage Tanks (USTs)

Notes:
Groundwater elevation data collected on 6 March 2006.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

BUILDING 10 SITE PLAN AND 6 MARCH 2006 GROUNDWATER ELEVATION MAP

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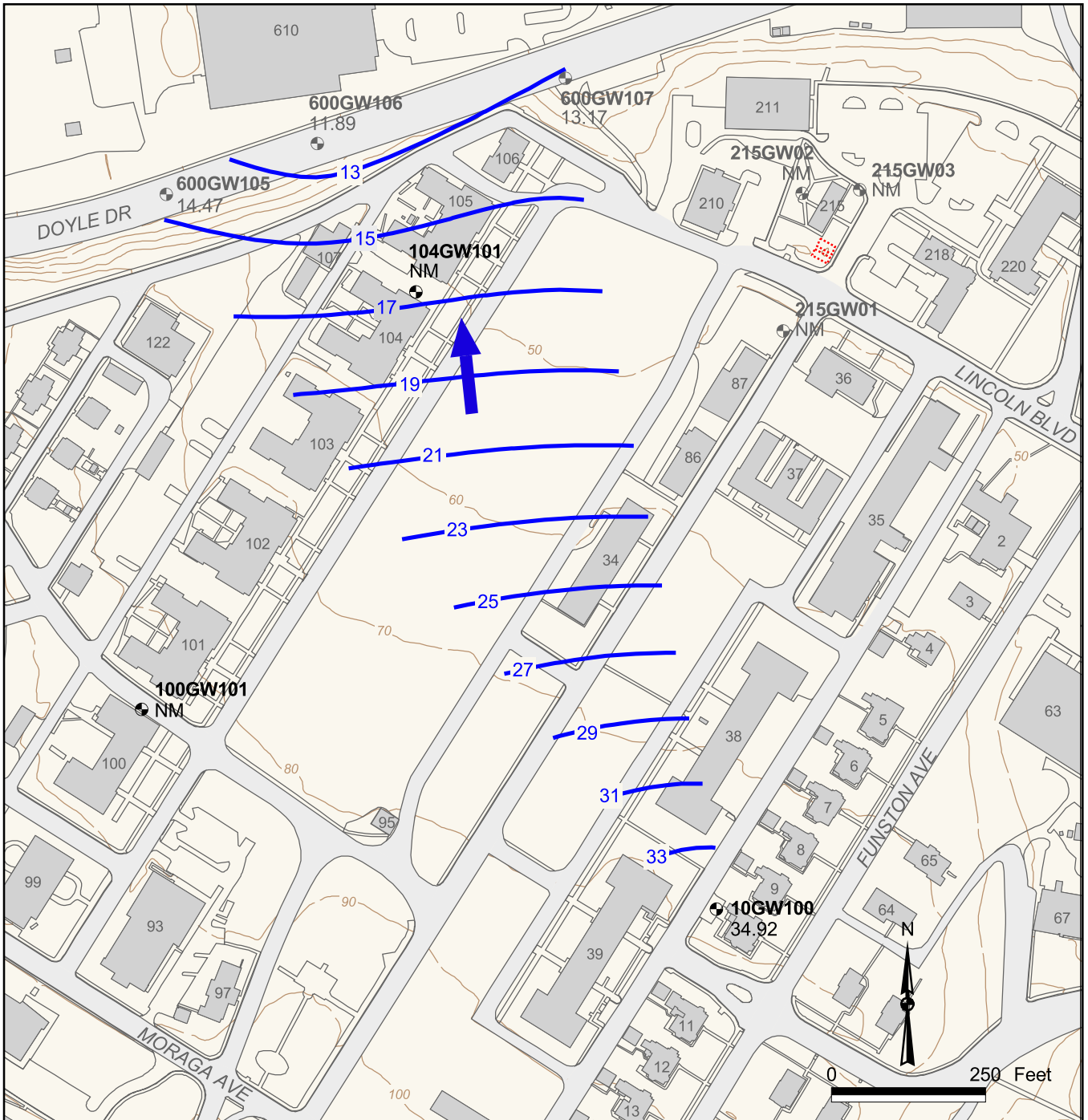
Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 561-5315
October 2006

FIGURE A-6-4

Treadwell & Rollo 2893.04\Q2_2006\A_06_A12.APR 10/2006



LEGEND

- Approximate Direction of Groundwater Flow
- Groundwater Contour (Contour Interval : 2 ft)
- Topographic Contour (Contour Interval : 10 ft)
- 215 — Building and Number
- **10GW100** 34.92 — Groundwater Monitoring Well May 2006 Groundwater Elevation
- **600GW105** 14.47 — Adjacent Groundwater Monitoring Well May 2006 Groundwater Elevation
- NM — Not Measured. 100GW101 and 104GW101 were approved for removal from the groundwater monitoring program prior to the Second Quarter 2004.
- Approximate Location of Former Underground Storage Tanks (USTs)

Notes:
Groundwater elevation data collected on 22 May 2006.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

BUILDING 10 SITE PLAN AND 22 MAY 2006 GROUNDWATER ELEVATION MAP

Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 561-5315
October 2006

FIGURE A-6-5

First Quarter 2006

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: El Polin Spring
Well No.: ~~El polin~~ ~~ESPOT~~ EPSP01
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: John DeJong
Sampled by: John DeJong
Date: 3/16/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[ ] 2-inch [ ] 4-inch [X] Other Jeep

Well Total Depth (TD, ft. below TOC): N/A
Depth to Water (WL, ft. below TOC):
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged
[ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [X] Other N/A

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[X] Other N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI, HAC Q, Myron L

Time	/ Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1606	/ –	7.87	13.7	7.05	851	–	5	clear
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							

Comments
Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/16/06 1610

Purging Equipment: Pump - Type Bailer - Type Disp Other
Sample Filtered: Yes No Filtered Sample Analysis: Metal

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
~~ESPOT~~ EPSP01	1 NaOH	CTT		
	1 NP poly			
	2 HNO3			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: LandFill 1 | Well No.: LF01GW01

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeJong | Sampled by: John DeJong | Date: 3/8/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 18.30

Depth to Water (WL, ft. below TOC): 3.95

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type Disp

[ ] Normal [ ] Pump \ Type

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[X] Other N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate ~.5 gpm | gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI, HACH, Mylon

Time / Liters or Gallons	pH	Temp (C) °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1517 / Initial	7.20	12.9	Pre: 0.48	741	—	3	Clear
1520 / 1.5	6.99	13.1	—	733	—	6	
1523 / 3	7.06	13.2	—	739	—	7	
1526 / 4.5	7.05	13.1	post: 0.53	746	—	6	
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/8/06 / 1530

Purging Equipment: Pump - Type | Bailer - Type Disp | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF01GW01	1 poly LNP	CET	7027	
	1 poly LNaOH	↓	↓	
	1 poly HNO3			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
LF01GW01	DUP030806SC @ 1535
	LF01GW01CL

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 1 | Well No.: LF01GW02

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date:

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 45.60

Depth to Water (WL, ft. below TOC): 25.55

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
(10)	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Normal [X] Modified (max 5 gpm)

[X] Bailer \ Type: Disposable [ ] Pump \ Type [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft) [ ] Near Bottom Depth (ft) [ ] Other

PURGE VOLUME CALCULATION

20.05 (Water Column Length) x 1.68 (Water Volume/ft) Mod. x 3 (No. Vols) = 101.03 gals CALCULATED PURGE VOLUME

Total Purge Time: 2 min.

Recharge Rate: Purge Rate: gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type:

Time	/ Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1550	/ initial	6.89	14.7	0.42	951	—	3	
1554	/ .9	6.86	15.4	—	943	—	2	
1558	/ 1.8	6.87	15.2	—	944	—	1	
1602	/ 2.7	6.88	15.1	0.61	943	—	1	
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/16/06 / 1610

Purging Equipment: Pump - Type: Bailer - Type: Disposable Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF01GW02	1 NaOH Poly	C+T	2048	
	1 L NP Poly			
	1 HNO3 Poly			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Land S. 111 | Well No.: ~~LF0GW03~~ LF01GW03

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeJong | Sampled by: John DeJong | Date: 3/20/06

WELL PURGING

PURGE VOLUME

Well casing diameter: ~~[ ] 2-inch~~ [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 65.00

Depth to Water (WL, ft. below TOC): 47.54

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other: N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate: ~.03 gpm | gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI, HACH, Myron L

Time	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1148	Initial	7.57	14.9	pre: 0.47	9.98	—	8	clear
1151	0.9	7.56	15.7	—	997	—	7	
1154	1.8	7.53	15.8	—	998	—	9	
1157	2.7	7.50	15.9	post: 0.71	1002	—	10	

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other: Baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/20/06, 1205

Purging Equipment: Pump - Type: | Bailer Type: Disp | Other:

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF01GW03	1 40ml	CFF		
	1 NaOH			
	1 HNO3			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Land Gill
Well No.: LF01GW04
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: John DeJong
Sampled by: John DeJong
Date: 3/20/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 72.52
Depth to Water (WL, ft. below TOC): 54.53
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp
[ ] Normal [ ] Pump \ Type:
[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[X] Other: N/A

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:
Recharge Rate:
Purge Rate: ~.3 gpm

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI, HACH, Myron L

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1228	Initial	8.14	14.1	pre: 4.15	626	—	7	clear
1231	0.9	7.86	14.9	—	628	—	6	
1234	1.8	7.72	14.9	—	630	—	6	
1237	2.7	7.60	14.9	—	634	—	6	
1240	3.6	7.21	15.1	—	647	—	5	
1243	4.5	7.18	15.1	—	654	—	5	
1246	5.4	6.90	15.2	—	674	—	4	
1249	6.3	6.89	15.2	—	683	—	5	
1252	7.2	6.84	15.1	post: 4.21	694	—	5	

← Casing is cracked ~4' down in well

Comments: Double checked DO. cals & readings

Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/20/06 / 1300

Purging Equipment: Pump - Type: Bailer - Type: Disp. Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF01GW04	1 poly	CT		
	1 HNO_3	↓		
	1 NaOH	↓		

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill Well No.: LF01GW05

Project Number: 2893 Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeJong Sampled by: John DeJong Date: 3/20/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 36.98

Depth to Water (WL, ft. below TOC): 8.85

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other: N/A

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: 2.3gpm

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI, HACH, Mycron

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1103 / Initial	6.69	12.3	DIC: 0.61	740	—	3	clear
1106 / 0.9	6.64	13.5	—	727	—	3	
1109 / 1.8	6.67	13.8	—	723	—	4	
1112 / 2.7	6.65	13.8	post: 0.49	723	—	5	
/							
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Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other: Back of truck

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/20/06 / 1120

Purging Equipment: Pump - Type: Bailer - Type: DSP Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF01GW05	1 L poly	CET		
↓	1 L NaOH	↓		
	1 HNO3			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 1 | Well No.: LF01GW06

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeWong | Sampled by: John DeWong | Date: 3/20/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 80.29

Depth to Water (WL, ft. below TOC): 64.63

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: D.SP.

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other: N/A

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate: ~.3 gpm

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI, HACH, Myron

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1419	Initial	7.50	15.5	pre: 4.00	1520	—	4	clear
1422	0.9	7.08	15.6	—	1515	—	15	
1425	1.8	7.10	15.8	—	1518	—	48	
1428	2.7	7.02	16.0	post: 4.20	1500	—	55	

Comments: ✓✓ DO readings

Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/20/06, 1430

Purging Equipment: Pump - Type: | Bailer - Type: D.SP | Other:

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF01GW06	1 NaOH	CLT		
↓	1 HNO3	↓		

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 1 | Well No.: LF01GW07

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeJong | Sampled by: John DeJong | Date: 3/20/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 55.19

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Normal [X] Modified (max 5 gpm)

[X] Bailer \ Type: DISP [ ] Pump \ Type [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft) [ ] Near Bottom Depth (ft) [X] Other N/A

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate ~.3gpm

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI, Hach, Myron L

Time	/ Liters or Gallons	pH	Temp (C) °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1326	/ Initial	6.94		pre: 4.02	603	—	12	Clear
1329	/ 0.9	6.84	14.9	—	651	—	13	
1332	/ 1.8	6.79	14.9	—	694	—	10	
1335	/ 2.7	6.78	15.1	post: 4.22	702	—	7	
	/							
	/							
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	/							
	/							

Comments: Double check on D.O. readings. Purge water storage/disposal: [ ] Drummed onsite [X] Other Bakersfield

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/20/06 / 1340

Purging Equipment: Pump - Type: Bailer - Type: DISP Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF01GW07	1 NaPOLY	CTT		
	1 HNO3			
	1 NaOH			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 2 | Well No.: LFR GW01

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John Doe | Sampled by: John Doe | Date: 3/16/08

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 19.83

Depth to Water (WL, ft. below TOC): 0.12

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: DISP

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other: N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate: .3 gpm | gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI, HACH, Mylron L

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1526	Initial	7.26	13.4	pre: 0.60	649	—	75	clear
1529	0.9	7.24	13.2	—	650	—	12	
1532	1.8	7.24	13.3	—	650	—	2	
1535	2.7	7.25	13.2	post: 0.51	651	—	2	

Comments: Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/16/08 / 1540

Purging Equipment: Pump - Type: | Bailer - Type: DISP | Other:

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LFR GW01	1L poly	C+T		
	1L NaOH			
	1L H_2SO_4			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 2 | Well No.: ~~LF02GW02~~ LF02GW02

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeJong | Sampled by: John DeJong | Date: 3/20/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 18.77

Depth to Water (WL, ft. below TOC): 1.30

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp

[ ] Normal [ ] Pump \ Type

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[X] Other: N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate | gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI, Hach, [illegible]

Time / Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1018 / Initial	7.38	11.5	0.4	1435	—	4	
1021 / 0.9	7.35	12.1	—	1430	—	5	
1024 / 1.8	7.35	12.4	—	1432	—	6	
1027 / 2.7	7.35	12.4	[illegible]	1431	—	6	

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other: Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/20/06 / 1035

Purging Equipment: Pump - Type | Bailer - Type: Disp | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF02GW02	1L poly	CET		
↓	500 HNO3	↓		
	500 NaOH			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 2 | Well No.: LF02GW04

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeJong | Sampled by: John DeJong | Date: 3/20/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 30.41

Depth to Water (WL, ft. below TOC): 12.70

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type DSP

[ ] Normal [ ] Pump \ Type

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[X] Other N/A

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate ~.3 gpm

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI, HACH, MYRON

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1536	FA: Fm	6.51		pre: 0.93	522	–	28	Cloudy
1539	0.9	6.44	14.4	–	522	–	36	
1542	1.8	6.36	14.6	–	522	–	39	
1545	2.7	6.37	14.7	post: 1.11	522	–	47	

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/20/06 / 1550

Purging Equipment: Pump - Type: Bailer - Type: DSP Other:

Sample Filtered: Yes/No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF02GW04	3 HNO3	CT		MS/MSD
	3 NO3			
	3 Poly			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

LANDFILL E
APPENDIX SECTION A-7
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2006
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

Landfill E is located in the east-central portion of the Presidio (Figure 1). The site is bounded by hillsides to the west and south, housing to the east, Quarry Road to the southeast, and Hicks Road and Barnard Avenue to the northwest (Figure A-7-1). The site elevation ranges from approximately 70 to 140 feet above the PLLW vertical datum.

The ravine east of Landfill E operated as a firing range, the former Barnard Avenue Protected Target Range, from 1910 to the mid-1920s (Montgomery Watson, 1996d). The southern portion of the range is currently covered by Landfill E. Filling began at Landfill E prior to 1946 and was terminated between 1965 and 1973 (ANL, 1989). Pop Hicks baseball field was constructed in the landfill area in the late 1950s (Montgomery Watson, 1996d).

Since August 1992, groundwater samples from Landfill E have been analyzed for TPH, VOCs, PAHs, OCPs and PCBs, chlorinated herbicides, metals, TDS and general chemistry. No OCPs, PCBs or chlorinated herbicides have ever been detected in groundwater at the site. Landfill E monitoring well analytical results are present in Tables A-7-1 through A-7-4 in this section.

Monitoring wells DAEGW03, DAEGW05, and DAEGW08 were also sampled for perchlorate and polybrominated diphenyl ether (PBDE) as part of the Trust's Emergent Chemical Study conducted at the request of the RWQCB during the First Quarter 2004. No perchlorate or PBDE was detected above laboratory reporting limits during the Emergent Chemical Study (Treadwell &Rollo, 2004b).

2.0 SITE DESCRIPTION AND GEOLOGY

Landfill E is located at the edge of the Northeastern Groundwater Area of the Marina Groundwater Basin (Figure 1). Depth to groundwater beneath Landfill E has ranged from approximately 9 to 60 feet bgs. The groundwater flow direction around Landfill E is generally northeasterly, toward Crissy Field (Montgomery Watson, 1997a).

A fenced field and a paved parking lot currently occupy the majority of the site (Figure A-7-1). Soils in the area of Landfill E generally consist of fill materials underlain by the Colma Formation and serpentinite bedrock. The fill material under the Landfill E footprint extends to a maximum depth of approximately 38 feet bgs. The debris fill consists of glass, brick, tile, and

other general construction debris (Dames & Moore, 1997). The fill layer is underlain by Colma Formation clay, silt, and sand. The Colma Formation is at least 25 feet thick. Franciscan Formation bedrock lies beneath the Colma Formation. The bedrock consists of weathered serpentinite and is found at depths ranging from 40 to 79 feet bgs (Montgomery Watson, 1997a).

3.0 LANDFILL E SITE INVESTIGATION

Erler and Kalinowski, Inc. (EKI) completed a field investigation for the Trust to further characterize the landfill in November and December 2002. The investigation consisted of the following:

- Conducting a seismic refraction and terrain conductivity survey (electromagnetic and geophysical surveys);
- Drilling 9 soil borings to depths ranging between 35 and 100 feet bgs (borings eventually completed into piezometers, monitoring wells and soil gas wells);
- Installing 3 soil gas wells (DAESG01 through DAESG03);
- Installing four monitoring wells (DAEGW101 through DAEGW104);
- Excavating 9 exploratory trenches throughout the site;
- Conducting a radiation survey across the site and screening of soils for radioactivity;
- Advancing 5 cone penetrometer test (CPT) borings to evaluate soil materials for geotechnical data and stratigraphy evaluation; and
- Installing two piezometers (DAEPZ101 and DAEPZ102).

The results of this field investigation are presented in the *Landfill E Field Sampling Report, Presidio of San Francisco, California* prepared by EKI and Golder Associates (Golder) and submitted to the agencies and RAB by the Presidio Trust in June 2003. A Focused Feasibility Study (FFS) for Landfill E was completed in 2005. A RAP is scheduled to be completed in 2008.

The 12 site wells and piezometers were surveyed by Towill Inc. (Towill) on 25 November 2002. The results of the Towill survey were approximately 0.5 feet lower than the previous survey results for DAEGW03 and DAEGW05. Treadwell & Rollo contracted Chaudhary and Associates (Chaudhary) to complete a survey of all new and existing Landfill E monitoring wells and piezometers on 5 June 2003 in order to obtain accurate and current top of casing elevations. These elevations are included in Table A-7-5.

4.0 GROUNDWATER MONITORING

Landfill E has 12 associated groundwater monitoring wells and piezometers (Figure A-7-1). During the First and Second Quarters 2006, groundwater elevation measurements were collected at all 12 wells and piezometers (Table A-7-5). In accordance with the proposed sampling schedule (Tables 1A and 1B), groundwater samples were collected from all 10 monitoring wells during the First Quarter 2006. No monitoring wells were scheduled for sampling during the Second Quarter 2006.

The proposed sampling schedule also included collecting surface water samples from Landfill E seep DAESP03 during both the First and Second Quarters 2006. The DAESP03 sample was collected during the First Quarter 2006 as proposed. However, the surface water seep was dry during the Second Quarter 2006 and no sample was collected. This seep typically only flows during the First Quarter when rainfall is heavy. The approximate location of DAESP03 is presented on Figure A-7-1.

4.1 Groundwater-Level Measurements and Interpretation

Groundwater elevation measurements were collected on 6 March and 22 May 2006 at all site wells and piezometers. Groundwater elevations are presented in Table A-7-5. Water level meters were calibrated on 6 March and 22 May 2006. The calibration logs can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C.

First Quarter 2006 groundwater elevations ranged from 50.84 to 107.55 feet above PLLW in monitoring wells DAEGW04 and DAEGW06, respectively. A groundwater elevation map showing First Quarter 2006 groundwater contours and flow directions for Landfill E is included as Figure A-7-1. Groundwater flow was to the northeast following the general topographic trend, which is also consistent with previous interpretations. The groundwater gradient was calculated to be approximately 0.125 feet per foot, which is also consistent with previous quarters.

Second Quarter 2006 groundwater elevations ranged from 53.48 to 109.37 feet above PLLW in monitoring wells DAEGW04 and DAEGW06, respectively. A groundwater elevation map showing Second Quarter 2006 groundwater contours and flow directions for Landfill E is included as Figure A-7-2. Groundwater was determined to flow to the northeast following the general topographic trend, which is consistent with previous interpretations. The groundwater gradient was calculated to be approximately 0.125 feet per foot, which is also consistent with previous quarters.

The groundwater elevations for the First and Second Quarters 2006 are generally within the range of historical elevations measured at the site. Groundwater elevations from wells DAEGW06 and DAEGW07 have not been used in calculating groundwater gradients or determining flow directions during these or previous quarters. Monitoring well DAEGW06 had

a groundwater elevation of 107.55 feet above PLLW during the First Quarter 2006 and an elevation of 109.37 feet above PLLW during the Second Quarter 2006. This well is located southwest of the other site wells and was previously interpreted as being installed in a semi-confined aquifer. Groundwater within well DAEGW07 was measured at 73.91 feet above PLLW during the First Quarter 2006 and at 70.65 feet above PLLW during the Second Quarter 2006. These groundwater elevations represent perched groundwater conditions. Wells DAEGW03, DAEGW04, DAEGW05, DAEGW08, DAEGW102 through DAEGW104 and piezometers DAEPZ101 and DAEPZ102 are screened in an unconfined aquifer (Montgomery Watson, 1999d and EKI & Golder Associates, 2003).

4.2 Monitoring Well Purging and Sampling

During the First Quarter 2006, all Landfill E monitoring wells were sampled on 14, 15, and/or 16 March 2006. The surface water sample from location DAESP03 was collected on 8 March 2006. No surface water sample was collected from location DAESP03, which was dry during the Second Quarter 2005.

All First Quarter 2006 groundwater samples were collected using methods shown in Table 1A, and in accordance with procedures described in the FSP (Treadwell & Rollo, 2001a).

Purge equipment, purging volumes, purge water parameters, and sampling equipment for each monitoring well are described in the purge records at the conclusion of this section. Purge water was stored for future disposal in a 2,800-gallon aboveground polyethylene storage tank located at the Central Magazine.

4.3 Groundwater Analytical Program

All groundwater samples collected were submitted to the project laboratory for the analyses shown in Tables 1A and 1B. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are shown in Table 5. Sample containers used for each well are described in the purge records located at the conclusion of this section.

QA/QC samples were collected as part of this program. Section 6.2 of the main report discusses the QA/QC sampling and analysis performed during the First Quarter 2006.

5.0 GROUNDWATER ANALYTICAL RESULTS

All Landfill E monitoring wells and the Landfill E seep (DAESP03) were sampled during the First Quarter 2006. No monitoring wells were sampled during the Second Quarter 2006. Seep DAESP03 was scheduled to be sampled during the Second Quarter 2006 but was dry. In accordance with the approved sampling schedules (Tables 1A and 1B), samples collected during the First Quarter 2006 were analyzed for some or all of the following: general chemistry parameters, metheylene blue active substances (MBAS), total hardness, molybdenum, TDS,

OCPs, PCBs, VOCs, PAHs, SVOCs, cyanide, TPHg, TPHd, and TPHfo, and 22 or 23 dissolved/total metals.

The primary and duplicate MBAS samples collected from DAESP03 on 8 March 2006 were not analyzed by the laboratory due to a lack of extraction solvent at the laboratory and therefore, the analyses were cancelled. The QC duplicate sampled collected for MBAS on 8 March 2006 was analyzed by the QC laboratory, as requested. Seep DAESP03 was re-sampled for MBAS on 24 March 2006 and a sample was submitted to the primary laboratory.

5.1 Dissolved Oxygen

Dissolved oxygen results are presented in Table A-7-1. During the First Quarter 2006, dissolved oxygen was measured at concentrations ranging from 0.08 mg/L in monitoring well DAEGW104 to 4.84 mg/L in monitoring well DAEGW103. Dissolved oxygen was measured at a concentration of 7.23 mg/L during the First Quarter 2006 in the seep sample DAESP03. Dissolved oxygen was detected at new low concentrations within two monitoring wells and the seep. The new low concentration within monitoring well DAEGW104 was significantly lower than the previous low concentration for this well. Dissolved oxygen levels will continue to be monitored during future sampling events to assess apparent trends.

5.2 General Chemistry and Total Hardness Results

General chemistry results are presented in Table A-7-1. Most general chemistry results for the First Quarter 2006 at Landfill E are within historical ranges. The table below summarizes new high and low general chemistry analytical results for the First Quarter 2006 when compared to previous sampling events, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date sampling commenced, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
General Chemistry							
DAEGW06	Alkalinity, Total	31 / 31	208	309	200	--	mg/L
	Bicarbonate	31 / 31	208	309	200	--	mg/L
DAEGW101	Alkalinity, Total	8 / 8	770	840	--	870	mg/L
	Bicarbonate	8 / 8	770	840	--	870	mg/L
	Sulfate	8 / 8	100	130	87	--	mg/L
DAEGW102	Chloride	11 / 11	380	840	370	--	mg/L
	Nitrate	11 / 11	0.21	1	0.11	--	mg/L
	Sulfate	11 / 11	260	410	240	--	mg/L
DAEGW103	Alkalinity, Total	29 / 29	230	360	110	--	mg/L
	Chloride	29 / 29	130	153	59	--	mg/L
	Nitrate	27 / 27	3.8	4.5 *	--	5.2	mg/L

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
General Chemistry							
	Sulfate	29 / 29	65	91	35	--	mg/L
	Total Hardness	29 / 29	270	540	210	--	mg/L
DAEGW104	Total Hardness	15 / 15	290	560	260	--	mg/L
DAESP03	Alkalinity, Total	6 / 6	41	61	--	89	mg/L
	Bicarbonate	6 / 6	41	61	--	89	mg/L
	Chloride	6 / 6	20	22	--	30	mg/L
DAESP03	MBAS	1 / 2	NA	NA	< 1	0.05	µg/L
	N as Nitrite	1 / 6	< 0.05	< 0.05	--	0.027	mg/L
	Nitrate	6 / 6	1	1.6	--	1.7	mg/L
	Sulfate	6 / 6	7.8	9.5	--	16	mg/L
	Total Hardness	3 / 3	95	95	--	110	mg/L

Qualified data in the table above is indicated with an asterisk (*).

Five wells and the seep DAESP03 had new high and/or low concentrations for general chemistry parameters during the First or Second Quarters 2006. However, these new high and low concentrations are not significantly different than previous concentrations and can be attributed to natural fluctuations and are not considered significant.

5.3 TPH Results

TPH results are presented in Table A-7-2. During the First Quarter 2006, samples collected from DAEGW101 and DAEGW104 had reported concentrations of TPHd at 65 µg/L and of 54 µg/L, respectively. This is the first time a primary sample collected from this well had a reported concentration of TPHd above the laboratory reporting limit of 50 µg/L. Therefore, TPHd samples will continue to be collected from monitoring well DAEGW104 during future sampling events to see if there is an apparent trend. TPHd was detected in the primary, duplicate and QC samples collected from surface seep DAESP03 at concentrations of 55 µg/L, 63 µg/L, and 58 µg/L. However, TPHd has only been sampled at the surface seep during two sampling events, and additional data is needed to determine if this is a consistent trend. TPH was not detected above the laboratory reporting limit in any other samples collected from Landfill E monitoring wells during the First Quarter 2006.

5.4 VOC Results

VOC results are presented in Table A-7-3. Benzene was detected within samples collected from monitoring wells DAEGW03 and DAEGW04 at concentrations of 0.3 µg/L and 0.2 µg/L, respectively. This is the first time benzene has been detected in samples from DAEGW04. Benzene has been detected at similar concentrations on one previous occasion at DAEGW03, DAEGW102, and DAEGW104. No other VOC compounds were detected above laboratory

detection limits within Landfill E monitoring well samples or the surface seep during the First Quarter 2006.

5.5 PAH, OCP, and PCB Results

PAHs, OCPs, and PCBs were analyzed during the First Quarter 2006 and results are presented in Table A-7-3. No PAHs, OCPs, or PCBs were detected within any of the groundwater samples collected from Landfill E monitoring wells during the First Quarter 2006.

5.6 Dissolved Metals Results

Dissolved metals results are presented in Table A-7-4. The table below summarizes new high and low dissolved metals results detected during the First Quarter 2006 when compared to previous sampling events, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date sampling commenced, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Metals, Dissolved							
DAEGW03	Cadmium	18 / 31	< 0.5	11.2	--	20	µg/L
	Cadmium	18 / 31	< 0.5 *	11.2	--	20	µg/L
	Manganese	27 / 32	< 10	316	--	2,900	µg/L
	Manganese	27 / 32	< 10 *	316	--	2,900	µg/L
	Nickel	14 / 33	< 10	22.1	--	35	µg/L
DAEGW04	Total Dissolved Solids	25 / 26	< 440	780	--	810	mg/L
DAEGW07	Magnesium	15 / 15	20,000	41,000 *	19,000	--	µg/L
DAEGW08	Manganese	25 / 29	< 10	550	--	750	µg/L
	Total Dissolved Solids	23 / 23	580	1,160	--	1,280	mg/L
DAEGW101	Iron	7 / 8	320	570	< 100	--	µg/L
	Magnesium	8 / 8	85,000	96,000	79,000 *	--	µg/L
	Sodium	8 / 8	57,000 *	110,000	51,000	--	µg/L
	Thallium	1 / 8	< 1	< 1	--	1.1	µg/L
	Total Dissolved Solids	8 / 8	730	1,160	650 *	--	mg/L
DAEGW102	Iron	10 / 11	370	1,300	< 100	--	µg/L
	Potassium	11 / 11	2,700	7,000	2,100 *	--	µg/L
	Total Dissolved Solids	11 / 11	1,610	2,240	1,270 *	--	mg/L
DAEGW103	Barium	28 / 28	140	172	100	--	µg/L
	Chromium	27 / 28	13	23	< 10	--	µg/L
	Copper	4 / 28	< 1	2.8	--	14	µg/L
	Lead	1 / 28	< 1 *	< 3	--	3.8	µg/L
	Magnesium	28 / 28	41,000	110,000	28,000	--	µg/L
	Magnesium	28 / 28	41,000 *	110,000	28,000	--	µg/L

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Metals, Dissolved							
	Nickel	4 / 28	< 2 *	3.9	--	20	µg/L
	Potassium	21 / 27	< 1,000	1,000	--	1,600	µg/L
	Sodium	27 / 27	66,000	140,000	60,000	--	µg/L
	Zinc	2 / 27	< 10	17	--	26	µg/L
DAEGW104	Calcium	14 / 14	39,000	50,000	37,000	--	µg/L
	Magnesium	14 / 14	45,000 *	52,700	41,000 *	--	µg/L
	Sodium	14 / 14	38,000	54,300	34,000	--	µg/L
DAESP03	Aluminum	3 / 6	< 100	< 1,000	--	140	µg/L
	Barium	6 / 6	32	34	--	46	µg/L
	Calcium	6 / 6	7,300	8,100	--	12,000	µg/L
	Copper	6 / 6	7.3	24	6.6	--	µg/L
	Magnesium	6 / 6	12,000	15,000	--	22,000	µg/L
	Manganese	6 / 6	17	19	--	30	µg/L
	Sodium	6 / 6	15,000	17,000	--	26,000	µg/L
	Total Dissolved Solids	4 / 4	330	330	326	400	mg/L

Qualified data in the table above is indicated with an asterisk (*).

Several locations had new high or low dissolved metals results during the First 2006. The majority of these can be attributed to natural fluctuations and are not considered to be significant, with the following exceptions:

- Iron was not detected above the laboratory reporting limit during the First Quarter 2006 in monitoring wells DAEGW101 and DAEGW102 for the first time since monitoring for dissolved metals began at these wells in First Quarter 2003.

- Chromium was not detected above the laboratory reporting limit during the First Quarter 2006 in monitoring well DAEGW103 for the first time since monitoring for dissolved metals began at this well in First Quarter 2003.

- Manganese was detected during the First Quarter 2006 in monitoring well DAEGW03 at a concentration of 2,900 µg/L, which is significantly higher than the previous high concentration of 316 µg/L detected within this well.

- Thallium was detected during the First Quarter 2006 in monitoring well DAEGW101 at a concentration of 1.1 µg/L just above the laboratory reporting limit of 1.0 µg/L. Thallium has not been detected within samples from this well.

- Copper was detected during the First Quarter 2006 in monitoring well DAEGW103 at a concentration of 14 µg/L, which is significantly higher than recent detected concentrations within this well.

- Lead was detected during the First Quarter 2006 in monitoring well DAEGW103 at a concentration of 3.8 µg/L. Lead has not previously been detected above the laboratory reporting limit within this well since Fourth Quarter 2002.

- Nickel was detected during the First Quarter 2006 in monitoring well DAEGW103 at a concentration of 20 µg/L, which is significantly higher than recent detected concentrations.

- Aluminum was detected during the First Quarter 2006 in the primary, duplicate, and QC sample from surface seep DAESP03 at concentrations of 130, 100, and 140 µg/L. Aluminum has previously not been detected above the laboratory reporting limit within this well. Dissolved aluminum detections can be indicative of filter breakthrough; however, the majority of the other metals detected within these samples were within the range of previously detected metals concentrations within this well.

The potential for increasing manganese, thallium, copper, lead, nickel and aluminum concentrations at Landfill E will be evaluated during future monitoring events.

In addition to dissolved metals, total metals were also analyzed for the second time within a DAESP03 sample during the First Quarter 2006 (Table A-7-4). Thus, adequate historical data is not available to evaluate trends in total metal concentrations. Significant total metal concentrations are discussed below.

- Total aluminum was detected at a concentration of 6,500 µg/L.

- Total chromium was detected at a concentration of 70 µg/L.

- Total iron was detected at a concentration of 9,800 µg/L.

- Total dissolved manganese was detected at a concentration of 130 µg/L.

Total metals will continue to be monitored within this seep when possible.

5.7 MBAS, Total Hardness, and Molybdenum Results

MBAS and total hardness results are presented in Table A-7-2. Molybdenum results are presented in Table A-7-4. Samples collected from monitoring wells DAEGW101 through DAEGW104 and from seep DAESP03 were the only Landfill E samples analyzed for MBAS and total hardness during the First and Second Quarters 2006.

During the First Quarter 2006, MBAS were detected at a new low concentration of 0.11 mg/L within well DAEGW101. MBAS was also detected within the QC duplicate sample collected on 8 March 2006 from DAESP03 at a concentration of 0.5 mg/L. The primary and duplicate samples collected from DAESP03 for MBAS on 8 March 2006 were cancelled at the laboratory due to a lack of extraction solvent at the laboratory. Seep DAESP03 was re-sampled for MBAS

on 24 March 2006. MBAS was not detected by the primary laboratory within the sample collected on 24 March 2006.

MBAS were not detected above laboratory detection limits within DAEGW101, DAEGW102, or DAEGW104. Total hardness ranged from 107 to 1,300 mg/L within Landfill E monitoring well and seep samples during the First Quarter 2006. Total hardness was detected at a concentrations of 210 mg/L and 260 mg/L within DAEGW103 and DAEGW104, respectively, which are new low concentrations for these monitoring wells.

Total hardness was detected at a concentration of 120 mg/L within seep DAESP03, which is a new high concentration.

Molybdenum was not detected above the laboratory reporting limit in any of the samples collected for analysis during the First Quarter 2006. The majority of previous molybdenum results have been non-detect at reporting limits ranging from 5 to 20 µg/L. The two exceptions were a molybdenum detection of 10 µg/L in DAEGW104 during the Fourth Quarter 2002 and a detection of 51 µg/L in the QC duplicate sample DAEGW103CL during the Third Quarter 2004. The primary and duplicate samples collected from DAEGW103 during the Third Quarter 2004 had no molybdenum detected above the laboratory reporting limit of 20 µg/L.

6.0 CONCLUSIONS & RECOMMENDATIONS

Groundwater elevations, gradients, and flow directions are consistent with historical values and interpretations. No significant trends or observations were identified at Landfill E during the First and Second Quarters 2006.

During the First Quarter 2006, the samples collected from DAEGW101 and DAEGW104 had a reported concentration of TPHd of 65 and 54 µg/L, respectively. TPHd was also detected at similar concentrations in samples from DAESP03. TPHd was previously detected in DAEGW104 in the First Quarter 2005, but was not previously present at DAEGW101. No other TPH was detected above the laboratory reporting limit in any other samples collected from Landfill E monitoring wells during the First Quarter 2006.

No VOCs, PAHs, OCPs, or PCBs were detected within any of the groundwater samples collected from Landfill E monitoring wells during the First Quarter 2006.

A FFS has been prepared for Landfill E. The reduction to annual sampling at monitoring wells DAEGW03 through DAEGW08 until a Landfill E RAP have been finalized was approved by the stakeholders prior to First Quarter 2004. Sampling will be performed per the RAP once it has been finalized and implemented.

Table A-7-1
Results of General Chemistry and Cyanide Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	SW9012	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
DAEGW03	03/14/06	600	600	110	NA	1.76	< 0.1	0.53	< 0.05	NA	110
	03/16/05	800	800	110	NA	0.20	< 0.1	0.69	< 0.05	NA	110
	03/11/04	740	740	110	NA	0.9	< 0.1	0.68	< 0.05	NA	110
DUP0311043A	03/11/04	740	740	110	NA	--	< 0.1	0.73	< 0.05	NA	110
DAEGW03CL	03/11/04	730	730	110	NA	--	< 0.1	0.86	< 0.05	0.86	110
	08/20/03	690	690	130	NA	0.53	0.14	0.75	< 0.05	NA	130
	03/13/03	700	700	150	NA	0.4	< 0.1	0.8	< 0.05	NA	130
	12/04/02	680	680	170	NA	1.8	< 0.1	0.6	< 0.05	NA	150
	09/03/02	750	750	180	NA	1.1	0.25	0.6	< 0.05	NA	160
	06/04/02	860	860	140	NA	2.1	0.14	0.25	< 0.05	NA	160
	03/12/02	740	740	170	NA	2.3	< 0.1 U	0.64	< 0.05	NA	160
	12/03/01	770	770	160	NA	1.4	0.14	0.41 J	< 0.05 UJ	NA	140
	08/28/01	720	720	200	NA	2.3	0.12	0.44	< 0.05	NA	180
	05/17/01	620	620	150	NA	1.5	0.18	0.36	< 0.05	NA	150
	05/17/99	811	811	190	NA	0.13	0.13	NA	NA	1.07	200
	02/15/99	852	852	180	NA	0.28	< 0.1	NA	NA	0.64	210
	11/16/98	871	871	180	NA	0.46	< 0.5	NA	NA	0.8	230
	08/14/98	845	845	84	NA	0.16	0.13	NA	NA	1.26	274
	04/14/98	860	860	140	NA	0.42	0.11	NA	NA	1	350
	01/13/98	820	820	160	NA	0.43	0.1	NA	NA	1.2 (J16)	200
	11/10/97	770	770	170	NA	0.5	0.1	NA	NA	1.2	230
	08/11/97	800	800	120	NA	0.01	0.1	NA	NA	1.5	300
	05/13/97	800	800	110	NA	0.1	0.1	NA	NA	1.2	280
	02/12/97	760	760	120	NA	0.08	0.1	NA	NA	1	230
	12/05/96	790	790	130	NA	NM	0.1	NA	NA	1.3	210
	08/28/96	780	780	160	NA	NM	0.1	NA	NA	1.4	340
	05/30/96	820	820	120	NA	NM	0.1	NA	NA	1.1	260
	03/05/96	879	879	113	NA	NM	1	0.75	NA	NA	172
	12/11/95	864	864	121	NA	NM	1.1	0.73	NA	NA	191
	09/11/95	610	610	73	NA	NM	< 0.25	NA	NA	0.6	200
	11/08/94	958	958	95	NA	NM	NA	2.8	NA	NA	219
	08/27/92	560	563	140	NA	NM	NA	NA	NA	0.014	240

Table A-7-1
Results of General Chemistry and Cyanide Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	SW9012	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
DAEGW04	03/14/06	370	370	140	NA	4.27	< 0.1	1.2	< 0.05	NA	56
	03/16/05	510	510	140	NA	0.1	< 0.1	1	< 0.05	NA	63
	03/17/04	320	320	180	NA	0.7	< 0.1	1.3	< 0.05	NA	79
	08/20/03	280	280	190	NA	2	< 0.1	1.9	< 0.05	NA	82
	03/13/03	400	400	170	NA	0.9	< 0.1	3	< 0.05	NA	75
	12/04/02	290	290	160	NA	2.8	< 0.1	2.4	< 0.05	NA	67
	09/03/02	290	290	150	NA	0.8	0.23	2.4	< 0.05	NA	59
	06/04/02	720	720	150	NA	2.4	0.15	2.2	< 0.05	NA	64
	03/12/02	340	340	180	NA	3.2	< 0.1 U	4.7	< 0.05	NA	70
	12/03/01	320	320	170	NA	NM	0.078 J	3.5 J	< 0.05 UJ	NA	63
DUP1203011B	12/03/01	320	320	170	NA	--	0.078 J	3.6 J	< 0.05 UJ	NA	62
	08/29/01	300	300	150	NA	2.8	0.08 J	3 J-	< 0.05 R	NA	60
	05/17/01	310	310	140	NA	6.1	0.12	2.9	< 0.05	NA	57
	05/17/99	361	361	152	NA	7.09	< 0.1	NA	NA	1.75	56
	02/15/99	286	286	117	NA	7.2	< 0.1	NA	NA	2.18	48
	11/16/98	227	227	79	NA	6.83	< 0.1	NA	NA	2.49	40
	08/14/98	229	229	66	NA	10.26	0.12	NA	NA	1.91	45
	04/14/98	270	270	110	NA	6.43	0.1	NA	NA	1.6	51
	01/13/98	290	290	100	NA	6.63	< 0.1	NA	NA	1.8 (J16)	43 (J8)
	11/10/97	290	290	80	NA	7.87	0.1	NA	NA	2.3	46
	08/11/97	170	170	50	NA	6.01	0.3	NA	NA	1.5	32
	05/13/97	240	240	60	NA	6.32	0.1	NA	NA	1.8	37
	02/12/97	360	360	90	NA	6.82	< 0.1	NA	NA	2	63
	12/05/96	300	300	66	NA	NM	< 0.1	NA	NA	3	45
	08/29/96	300	300	80	NA	NM	< 0.1	NA	NA	1.4	48
	06/10/96	310	310	80	NA	NM	< 0.1	NA	NA	1.9	46
	03/07/96	271	271	70	NA	NM	0.38	2.06	NA	NA	45
	12/11/95	176	176	44	NA	NM	0.3	2	NA	NA	31
	09/11/95	300	300	67	NA	NM	< 0.25	NA	NA	2.1	44
	11/09/94	374	374	71	NA	NM	NA	2.66	NA	NA	50.2
	11/02/92	360	359	96	NA	NM	NA	NA	NA	3.2	60.3

Table A-7-1
Results of General Chemistry and Cyanide Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	SW9012	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
DAEGW05	03/14/06	470	470	130	NA	0.67	0.1	1.9	< 0.05	NA	100
	03/16/05	460	460	130	NA	0.2	< 0.1	1.8	< 0.05	NA	110
DUP0316053A	03/16/05	490	490	130	NA	--	< 0.1	1.8	< 0.05	NA	120
	03/11/04	550	550	110	NA	0.8	< 0.1	1.3	< 0.05	NA	130
	08/19/03	640	640	78	NA	0.6	< 0.1	0.8	< 0.05	NA	140
	03/13/03	570	570	120	NA	1.2	< 0.1	1.3	< 0.05	NA	120
	12/04/02	560	560	100	NA	1.9	0.13	1.1	< 0.05	NA	120
	09/03/02	600	600	100	NA	1.1	0.25	1.1	< 0.05	NA	130
	06/04/02	540	540	140	NA	2.2	0.15	1.4	< 0.05	NA	140
	03/12/02	590	590	120	NA	1.5	< 0.1 U	1	< 0.05	NA	150
DUP0312023A	03/12/02	600	600	120	NA	--	< 0.1 U	1	< 0.05	NA	150
	12/03/01	780	780	40	NA	1.2	0.15	0.13 J	< 0.05 UJ	NA	150
	08/28/01	600	600	130	NA	0.5	0.14	0.91	< 0.05	NA	160
	05/17/01	600	600	110	NA	3.2	0.16	0.84	< 0.05	NA	150
	05/18/99	460	460	161	NA	0.12	0.17	NA	NA	< 2.53 (U4)	110
	03/15/99	533	533	140	NA	1.74	0.13	NA	NA	1.14	140
	11/17/98	531	531	172	NA	0.51 (J34)	< 0.1	NA	NA	1.56	130
	08/17/98	511	511	107	NA	0.87	0.15	NA	NA	1.77 (J33)	95
	04/15/98	540	540	110	NA	0.27	0.14	NA	NA	1	110
	01/14/98	560	560	130	NA	0.37	0.1	NA	NA	2.1 (J16)	130
	11/11/97	550	550	120	NA	0.65	0.1	NA	NA	1.8	120
	08/12/97	550	550	110	NA	0.64	0.1	NA	NA	1.7	120
	05/14/97	480	480 (J4)	90	NA	0.52	0.1	NA	NA	1.7	92
	02/13/97	570	570	90	NA	0.54	0.1	NA	NA	2	110
	12/06/96	570	570	100	NA	NM	0.1	NA	NA	1.3 (J33)	120
	08/29/96	560	560	90	NA	NM	0.1	NA	NA	1.8	120
	05/30/96	530	530	100	NA	NM	0.1	NA	NA	2.6	100
	03/06/96	481	481	125	NA	NM	0.67	2.67	NA	NA	103
	12/11/95	770	770	90	NA	NM	0.8	1.4	NA	NA	149
	09/12/95	620	620	80	NA	NM	< 0.25	NA	NA	1.4	130
	11/08/94	557	545	138	NA	NM	NA	3.55	NA	NA	123
	11/02/92	353	352	200	NA	NM	NA	NA	NA	3.6	130

Table A-7-1
Results of General Chemistry and Cyanide Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	SW9012	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
DAEGW06	03/16/06	200	200	140	NA	0.74	0.24	< 0.05	< 0.05	NA	7.6
	03/16/05	210	210	150	NA	0.7	0.25	< 0.05	< 0.05	NA	7.8
	03/11/04	220	220	150	NA	0.4	0.23	< 0.05	< 0.05	NA	7.8
	08/20/03	220	220	140	NA	1.5	0.25	< 0.05	< 0.05	NA	7.7
	03/12/03	220	220	140	NA	1.1	0.24	< 0.05	< 0.05	NA	7.2
	12/04/02	220	220	140	NA	0.8	0.18	< 0.05	< 0.05	NA	8.2
	09/03/02	210	210	140	NA	0.9	0.35	0.22	< 0.05	NA	8.2
	06/04/02	210	210	140	NA	2.2	0.24	0.12	< 0.05	NA	8.5
	03/12/02	210	210	150	NA	1	< 0.1 U	0.04 J	< 0.05	NA	8.7
	12/03/01	230	230	150	NA	2.4	0.26	0.02 J,J	< 0.05 UJ	NA	9.5
	08/28/01	210	210	140	NA	1.4	0.27	0.06	< 0.05	NA	8.6
	05/17/01	210	210	140	NA	1.9	0.26	0.03 J	< 0.05	NA	8.3
DUP0517012A	05/17/01	220	220	140	NA	--	0.31	0.03 J	< 0.05	NA	8.4
	05/17/99	240	240	160	NA	3.12	0.27	NA	NA	0.057	< 20
	02/15/99	208	208	160	NA	0.64	0.19	NA	NA	0.49	< 25
	11/16/98	240	240	180	NA	3.75 (J35)	< 0.5	NA	NA	1.27	12
	08/14/98	248	248	120	NA	0.9	0.21	NA	NA	0.082	13.5
	04/14/98	230	230	160	NA	3.25	0.24	NA	NA	0.057	< 20
	01/13/98	240	240	140	NA	1.11	0.3	NA	NA	0.3 (J16)	10
	11/10/97	230	230	160	NA	0.65	0.3	NA	NA	< 0.1	9
	08/11/97	250	250	140	NA	2.37	0.2	NA	NA	0.2	18
	05/13/97	240	240	130	NA	2.02	0.3	NA	NA	0.25	9.6
	02/12/97	250	250	130	NA	0.63	0.3	NA	NA	0.13	9.7
	12/06/96	260	260	110	NA	NM	0.3	NA	NA	0.2	11
	08/28/96	260	260	120	NA	NM	0.3	NA	NA	0.22	13
	05/30/96	250	250	120	NA	NM	0.3	NA	NA	< 0.05	13
	03/06/96	309	309	130	NA	NM	0.56	0.16	NA	NA	30
	12/11/95	281	281	152	NA	NM	0.6	0.24	NA	NA	19
	09/12/95	270	270	130	NA	NM	0.3	NA	NA	0.24	< 25
	04/05/95	290	288	139	NA	NM	NA	0.2	NA	NA	28

Table A-7-1
Results of General Chemistry and Cyanide Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	SW9012	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
DAEGW07	03/15/06	130	130	26	NA	0.59	< 0.1	< 0.05	< 0.05	NA	16
	03/18/05	170	170	22	NA	0.2	< 0.1	< 0.05	< 0.05	NA	18
	03/17/04	170	170	21	NA	0.22	< 0.1	0.29	< 0.05	NA	15
DUP0317041A	03/17/04	170	170	21	NA	--	< 0.1	0.25	< 0.05	NA	15
	03/19/03	220	220	22	NA	1.73	< 0.1	< 0.05	< 0.05	NA	13
	03/11/02	210	210	21	NA	2	< 0.1	0.45	< 0.05	NA	18
	05/18/99	229	229	247	NA	6.76 (J35)	< 0.1	NA	NA	0.45	19
	03/15/99	206	206	24	NA	1.57	< 0.1	NA	NA	0.21	24
	04/15/98	180	180	32	NA	0.71	< 0.1	NA	NA	< 0.05	24
	01/14/98	130	130	40	NA	NM	< 0.1	NA	NA	3.7 (J16)	27
	12/12/97	120	120	40 (J9)	NA	4.81	< 0.1	NA	NA	0.73	31
	02/13/97	200	200	30	NA	0.95	< 0.1	NA	NA	0.13	29
	03/07/96	183	183	29	NA	NM	< 0.1	< 0.05	NA	NA	23
	12/14/95	82	82	59	NA	NM	0.2	1.8	NA	NA	54
	04/04/95	184	184	34	NA	NM	NA	< 0.2	NA	NA	40.5
DAEGW08	03/14/06	640	640	150	NA	0.51	< 0.1	< 0.05	< 0.05	NA	170
	03/28/05	700	700	140	NA	3.1	< 0.1	< 0.05	< 0.05	NA	180
	03/17/04	740	740	140	NA	0.7	< 0.1	< 0.05	< 0.05	NA	180
	08/18/03	710	710	110	NA	0.3	< 0.1	0.47	< 0.05	NA	150
	03/19/03	690	690	120	NA	0.2	< 0.1	< 0.05	< 0.05	NA	150
	12/05/02	440	440	49	NA	0.3	< 0.1	0.99	< 0.05	NA	69
	09/04/02	580	580	98	NA	0.2	0.22	0.33	< 0.05	NA	130
	06/04/02	720	720	130	NA	1.4	0.12	< 0.05	< 0.05	NA	160
	03/11/02	720	720	130	NA	0.6	0.088 J	< 0.05	< 0.05	NA	170
	11/30/01	380	380	91	NA	1.8	0.061 J	2.4	< 0.05	NA	88
	08/29/01	460	460	100	NA	2	0.12	1.4	< 0.05	NA	120
	05/16/01	590	590	97	NA	2.9	0.18	0.86	< 0.05	NA	140
	05/18/99	501	501	102	NA	0.5	< 0.1	NA	NA	0.23	75
	02/16/99	489	489	76	NA	0.83	< 0.1	NA	NA	1.28	110
	11/17/98	444	444	95	NA	1.26	< 0.1	NA	NA	0.33	98
	08/17/98	406	406	69	NA	0.67	1.1	NA	NA	< 0.05	53
	04/15/98	400	400	64	NA	0.77	< 0.1	NA	NA	< 0.05	82
	01/14/98	430	430	< 60 (U4)	NA	0.88	< 0.1	NA	NA	< 0.6 (U16, U4)	91
	11/11/97	410	410	50	NA	1.51	< 0.1	NA	NA	0.4	86
	08/12/97	470	470	60	NA	1.5	< 0.1	NA	NA	< 0.05	77
	05/14/97	500	500	90	NA	0.39	< 0.1	NA	NA	0.54	94

Table A-7-1
Results of General Chemistry and Cyanide Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	SW9012	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
DAEGW08	02/13/97	520	520	100	NA	0.29	< 0.1	NA	NA	0.05	100
	12/06/96	500	500	60	NA	NM	< 0.1	NA	NA	0.18	120
	08/29/96	460	460	70	NA	NM	< 0.1	NA	NA	0.08	90
	06/10/96	690	690	100	NA	NM	0.2	NA	NA	0.08	170
	03/07/96	694	694	203	NA	NM	0.71	< 0.05	NA	NA	234
	12/14/95	527	527	60	NA	NM	0.6	0.07	NA	NA	96
	09/12/95	610	610	110	NA	NM	0.31	NA	NA	0.2	170
	04/03/95	562	560	68	NA	NM	NA	< 0.2	NA	NA	128
DAESP03	03/08/06	89	89	28	NA	7.23	< 0.1	1.7	< 0.05	NA	16
DUP0308063A	03/08/06	78	78	29	NA	NA	< 0.1	1.7	< 0.05	NA	16
DAESP03CL	03/08/06	75	75	30	< 0.01 U	NA	< 1 U	1.62	0.027	NA	15.7
	03/22/05	61	61	20	< 0.01	9.8	< 0.1	1.6	< 0.05	NA	9.5
	12/28/01	41	41	22	< 0.01	NM	0.038 J	1	< 0.05	NA	7.8
DUP112801 [3]	12/28/01	42	42	22	< 0.01	--	0.036 J	1	< 0.05	NA	7.8
DAESP03 [2]	02/01/99	70.8	70.8	32	NA	11	< 0.1	NA	NA	1.93	18
	02/24/98	81.1	81.1	20.9	NA	10	< 0.1	NA	NA	0.85	16.4
	01/23/98	229	229	20.6	NA	10	0.17	NA	NA	2	33.1
DAEGW101	03/16/06	870	870	19	NA	0.1	< 0.1	< 0.05	< 0.05	NA	87
	05/26/05	790	790	18	NA	0.3	0.1	< 0.05	< 0.05	NA	100
	03/16/05	780	780	17	NA	0.1	0.11	0.69	< 0.05	NA	100
	12/15/04	NA	NA	NA	NA	NM	NA	NA	NA	NA	NA
	08/12/04	NA	NA	NA	NA	0.25	NA	NA	NA	NA	NA
	05/27/04	840	840	21	NA	1.7	0.11	0.95	< 0.05	NA	100
	03/11/04	770	770	25	NA	0.3	0.14	1.7	0.28	NA	110
	08/20/03	800	800	63	NA	0.6	0.23	2.2	0.2	NA	130
	06/05/03	800	800	53	NA	0.8	0.22	1.3	< 0.05	NA	120
	03/13/03	840	840	73	NA	1	0.17	< 0.05	< 0.05	NA	120
DAEGW102	03/16/06	800	800	370	NA	0.1	0.56	0.11	< 0.05	NA	240
	05/26/05	1100	1100	380	NA	1.1	0.57	0.21	< 0.05	NA	290
	03/16/05	1,000	1,000	450	NA	3	0.68	0.22	< 0.05	NA	320
	12/15/04	820	820	520	NA	0.8	0.65	0.28	< 0.05	NA	260
	08/12/04	950	950	510	NA	2.7	0.53	0.37	< 0.05	NA	290
	05/27/04	1,000	1,000	520	NA	2.3	0.77	0.39	< 0.05	NA	320

Table A-7-1
Results of General Chemistry and Cyanide Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	SW9012	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
DAEGW102	03/15/04	880	880	580	NA	1.2	0.61	0.47	< 0.1	NA	300
	12/04/03	810	810	610	NA	0.8	0.66	0.64	< 0.1	NA	260
	08/19/03	900	900	630	NA	1.6	0.68	0.91 J-	< 0.1 UJ	NA	410
	06/04/03	880	880	770	NA	2	0.7	1	< 0.25	NA	340
	03/12/03	650	650	840	NA	2.4	0.64	0.96	< 0.1	NA	270
DAEGW103	03/14/06	110	110	59	NA	4.84	< 0.1	5.2	< 0.05	NA	35
	05/26/05	240	240	130	NA	5.5	0.15	4.1	< 0.05	NA	70
	03/17/05	260	260	140	NA	6.8	< 0.1	3.9	< 0.05	NA	71
DUP0317053A	03/17/05	240	240	130	NA	--	0.1	3.9	< 0.05	NA	69
DAEGW103CL	03/17/05	249	249	140	NA	--	< 0.3 U	4.09	< 0.1 U	NA	68
	12/15/04	240	240	150	NA	6	< 0.1	4.2	< 0.05	NA	72
DUP1215042A	12/15/04	250	250	140	NA	NA	< 0.1	4.2	< 0.05	NA	71
DAEGW103CL	12/15/04	234	234	132	NA	NA	< 0.3 U	NA	NA	4.14	71.8
	08/11/04	240	240	140	NA	6.92	< 0.1	3.9	< 0.05	NA	70
DUP0811042B	08/11/04	300	300	140	NA	--	< 0.1	3.9	< 0.05	NA	69
DAEGW103CL	08/11/04	270	270	130	NA	--	0.11	NA	NA	3.3 J-	66
	05/28/04	360	360	140	NA	4.8	< 0.1	3.8	< 0.05	NA	72
DUP0528041A	05/28/04	310	310	140	NA	NA	< 0.1	3.8	< 0.05	NA	73
DAEGW103CL	05/28/04	240	240	150	NA	NA	0.14	3.9	< 0.05	3.9	74
	03/10/04	230	230	150	NA	1.8	0.11	4	< 0.05	NA	77
DUP0310043B	03/10/04	230	230	150	NA	--	0.11	4	< 0.05	NA	77
DAEGW103CL	03/10/04	230	230	140	NA	--	0.13	4	0.068	4.1 HT-04	71
	12/04/03	250	250	140	NA	3.8	0.1	4	< 0.05	NA	72
DUP1204033A	12/04/03	250	250	140	NA	--	0.1	4.1	< 0.05	NA	72
DAEGW103CL	12/04/03	230	230	153	NA	--	< 0.1	4.5 J-	< 0.05	4.5 J-	75.2
	08/19/03	240	240	130	NA	2.2	0.11	3.9 J-	< 0.05 UJ	NA	89
DUP0819033B	08/19/03	250	250	140	NA	NA	0.12	3.9 J-	< 0.05 UJ	NA	91
DAEGW103CL	08/19/03	230	230	140	NA	NA	0.1 J+	4.2 J-	< 0.05	4.2 J-	70
	06/04/03	240	240	150	NA	4.8	0.14	4.2	< 0.05	NA	78
DUP0604033A	06/04/03	260	260	150	NA	--	0.15	4.2	< 0.05	NA	78
DAEGW103CL	06/04/03	230	< 20	140	NA	--	0.17	4.1 J-	< 0.05	4.1 HT-04,J-	65

Table A-7-1
Results of General Chemistry and Cyanide Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Cyanide	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	SW9012	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
DAEGW103	03/13/03	300	300	140	NA	6.1	< 0.1	4.2	< 0.05	NA	76
DUP0313033A	03/13/03	230	230	140	NA	--	0.13	4.3	< 0.05	NA	72
DAEGW103CL	03/13/03	240	240	140	NA	--	0.13	3.8	0.082 J-	3.9	67
	11/25/02	230	230	140	NA	NM	NA	NA	NA	NA	74
DAEGW104	03/16/06	340	340	72	NA	0.08	0.27	< 0.05	< 0.05	NA	11
	05/26/05	270	270	77	NA	0.5	0.27	< 0.05	< 0.05	NA	26
DAEGW104CL	05/26/05	287	287	78	NA	NM	0.4	1	< 1 U	NA	25
DUP0526052A	05/26/05	270	270	76	NA	NM	0.26	< 0.05	< 0.05	NA	26
	03/16/05	340	340	73	NA	0.3	0.29	0.06	< 0.05	NA	14
	12/15/04	290	290	72	NA	0.9	0.28	0.07	< 0.05	NA	11
	08/12/04	270	270	69	NA	0.32	0.29	0.05	< 0.05	NA	10
	05/27/04	350	350	69	NA	1.4	0.29	0.07	< 0.05	NA	11
	03/15/04	280	280	73	NA	0.8	0.31	< 0.05	< 0.05	NA	11
	12/04/03	300	300	70	NA	0.9	0.3	0.13	< 0.05	NA	11
	08/19/03	280	280	66	NA	0.6	0.36	0.07 J-	< 0.05 UJ	NA	12
DUP0819033A	08/19/03	280	280	67	NA	NA	0.34	< 0.05 UJ	< 0.05 UJ	NA	11
	06/04/03	290	290	78	NA	1.1	0.35	0.19	< 0.05	NA	12
	03/12/03	370	370	79	NA	1.8	0.3	< 0.05	< 0.05	NA	12
	11/25/02	280	280	260	NA	NM	NA	NA	NA	NA	48

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in their respective quarterly reports.
2 - This sample was labeled LFE-GW on the chain of custody and was reported by the laboratory as LFE-GW. This sample ID (LFE-GW) has been changed within the text, tables and database to reflect the historic name of this seep (DAESP03).
3 - This sample was labeled LFE-GWD on the chain of custody and was reported by the laboratory as LFE-GWD. In accordance with the QAPP, this sample ID (LFE-GWD) was changed to DUP112801 within the text, tables and database.
mg/L - milligrams per liter
NA - Not analyzed
NM - Not measured
"--" dissolved oxygen measurements were not taken for duplicate and quality control samples.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-7-2
Results of MBAS, Total Hardness, and TPH Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	MBAS	Total Hardness	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	E425.1	E130.2/ E310.1	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)
DAEGW03	03/14/06	NA	NA	< 50	< 50	< 300
	03/16/05	NA	NA	< 50	< 50	< 300
	03/11/04	NA	NA	< 50	< 50	< 300
DUP0311043A	03/11/04	NA	NA	< 50	140 HY	< 300
DAEGW03CL	03/11/04	NA	NA	< 50	< 50	< 250
	08/20/03	0.12 J	740	< 50	< 50	< 300
	03/13/03	NA	NA	< 50	< 50	< 300
	03/12/02	NA	NA	< 50	< 50	< 300
	05/17/01	NA	NA	< 50	< 50	< 300
	02/15/99	NA	NA	< 50	< 50	< 300
	01/13/98	NA	NA	< 50	< 50	< 300
	12/05/96	NA	NA	< 50	< 50	< 300
	08/28/96	NA	NA	< 50	< 50	< 300
	05/30/96	NA	NA	< 50	< 50	< 300 (U16)
	03/05/96	NA	NA	< 50	110 (J32)	3,000 (J32)
	12/11/95	NA	NA	< 50	< 50	< 300
	09/11/95	NA	NA	< 50	< 50	< 1,300
	11/08/94	NA	NA	< 50	NA	NA
	08/27/92	NA	NA	NA	70	NA
DAEGW04	03/14/06	NA	NA	NA	< 50	< 300
	03/16/05	NA	NA	NA	< 50	< 300
	03/17/04	NA	NA	NA	< 50	< 300
	08/20/03	< 0.1 UJ	500	NA	< 50	< 300
	03/13/03	NA	NA	NA	< 50	< 300
	03/12/02	NA	NA	NA	< 50	< 300
	05/17/01	NA	NA	NA	< 50	< 300
	02/15/99	NA	NA	< 50	77 J25	< 300
	01/13/98	NA	NA	< 50	< 50	< 300
	12/05/96	NA	NA	< 50	< 50	< 300
	08/29/96	NA	NA	< 50	< 50	< 300
	06/10/96	NA	NA	< 50	< 50 (U6)	< 300 (U6, U16)
	03/07/96	NA	NA	< 50	110 (J32)	2,700 (J32)
	12/11/95	NA	NA	< 50	< 50	< 300
	09/11/95	NA	NA	< 50	< 50	< 1,300
	11/09/94	NA	NA	< 50	NA	NA
	11/02/92	NA	NA	NA	< 50	NA
DAEGW05	03/14/06	NA	NA	< 50	< 50	< 300
	03/16/05	NA	NA	< 50	< 50	< 300
DUP0316053A	03/16/05	NA	NA	< 50	< 50	< 300
	03/11/04	NA	NA	< 50	< 50	< 300
	08/19/03	< 0.1	700	< 50	< 50	< 300
	03/13/03	NA	NA	< 50	< 50	< 300
	03/12/02	NA	NA	< 50	< 50	< 300
DUP0312023A	03/12/02	NA	NA	< 50	< 50	< 300
	05/17/01	NA	NA	< 50	< 50	< 300
	03/15/99	NA	NA	< 50	< 50	< 300
	01/14/98	NA	NA	< 50	< 50	< 300
	12/06/96	NA	NA	< 50	< 50	< 300
	08/29/96	NA	NA	< 50	< 50	< 300
	05/30/96	NA	NA	< 50	< 50 (U6)	< 300 (U6, U16)
	03/06/96	NA	NA	< 50	120 (J32)	2,800 (J32)
	12/11/95	NA	NA	< 50	< 50 (U6)	< 300 (U6)

Table A-7-2
Results of MBAS, Total Hardness, and TPH Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	MBAS	Total Hardness	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	E425.1	E130.2/ E310.1	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)
DAEGW05	09/12/95	NA	NA	< 50	< 50	< 1,300
	11/08/94	NA	NA	< 50	NA	NA
	11/02/92	NA	NA	NA	< 50	NA
DAEGW06	03/16/06	NA	NA	NA	< 50	< 300
	03/16/05	NA	NA	NA	< 50	< 300
	03/11/04	NA	NA	NA	< 50	< 300
	08/20/03	< 0.1 UJ	350	NA	< 50	< 300
	03/12/03	NA	NA	NA	< 50	< 300
	03/12/02	NA	NA	NA	< 50	< 300
	05/17/01	NA	NA	NA	< 50	< 300
DUP0517012A	05/17/01	NA	NA	NA	< 50	< 300
	02/15/99	NA	NA	< 50	< 50	< 300
	01/13/98	NA	NA	< 50	< 50	< 300
	12/06/96	NA	NA	< 50	< 50	< 300
	08/28/96	NA	NA	< 50	< 50	< 300
	05/30/96	NA	NA	< 50	< 50	< 300 (U16)
	03/06/96	NA	NA	< 50	< 50	680 (J32)
	12/11/95	NA	NA	< 50	< 50	< 300
	09/12/95	NA	NA	< 50	< 50	< 1,300
	04/05/95	NA	NA	< 10	NA	NA
DAEGW07	03/15/06	NA	NA	< 50	< 50	< 300
	03/18/05	NA	NA	< 50	< 50	< 300
	03/17/04	NA	NA	< 50	< 50	< 300
DUP0317041A	03/17/04	NA	NA	< 50	< 50	< 300
	03/19/03	NA	NA	< 50	< 50	< 300
	03/11/02	NA	NA	< 50	< 50	< 300
	05/18/99	NA	NA	< 50 U	< 50 U	< 300 U
	03/15/99	NA	NA	< 50	< 50	< 300
	04/15/98	NA	NA	< 50	< 50	< 300
	01/14/98	NA	NA	< 50	< 50	< 300
	12/12/97	NA	NA	< 50	< 50	1,500 (R32)
	02/13/97	NA	NA	< 50	< 50	< 300
	03/07/96	NA	NA	< 50	< 50	660 (J32)
	12/14/95	NA	NA	< 50	< 50	< 300
	04/04/95	NA	NA	< 10	NA	NA
DAEGW08	03/14/06	NA	NA	< 50	< 50	< 300
	03/28/05	NA	NA	< 50	< 50	< 300
	03/17/04	NA	NA	< 50	< 50	< 300
	08/18/03	< 0.1	740	< 50	< 50	< 300
	03/19/03	NA	NA	< 50	< 50	< 300
	03/11/02	NA	NA	< 50	< 50	< 300
	05/16/01	NA	NA	< 50	< 50	< 300
	05/18/99	NA	NA	< 50	< 50	< 300
	02/16/99	NA	NA	< 50	< 50	< 300
	01/14/98	NA	NA	< 50	< 50	< 300
	12/06/96	NA	NA	< 50	< 50	< 300
	08/29/96	NA	NA	< 50	< 50	< 300
	06/10/96	NA	NA	< 50	< 50 (U6, U9)	< 300 (U6, U16)
	03/07/96	NA	NA	< 50	260 (J32)	5,000 (J32)
	12/14/95	NA	NA	< 50	< 50	< 300
	09/12/95	NA	NA	< 50	< 50	< 1,300
	04/03/95	NA	NA	11	NA	NA

Table A-7-2
Results of MBAS, Total Hardness, and TPH Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	MBAS	Total Hardness	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	E425.1	E130.2/ E310.1	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)
DAESP03	03/24/06	< 1	NA	NA	NA	NA
	03/08/06	NA	120	< 50	55 Y	< 300
DUP0308063A	03/08/06	NA	110	< 50	63 Y	< 300
DAESP03CL	03/08/06	0.05	107	< 50 U	58 J+	< 300 U
	03/22/05	< 0.1 R	95	< 50	< 50	< 300
DAEGW101	03/16/06	0.11	780	< 50	65 HY	< 300
	05/26/05	0.14	780	< 50	< 50	< 300
	03/16/05	0.14	800	< 50	< 50	< 300
	08/12/04	NA	800	< 50	< 50	< 300
	05/27/04	< 0.1	800	< 50	< 50	< 300
	03/11/04	< 0.1	790	< 50	< 50	< 300
	06/05/03	0.4 J-	780	< 50	< 50	< 300
	03/13/03	< 0.1	750	< 50	< 50	< 300
DAEGW102	03/16/06	< 0.1	1,300	< 50	< 50	< 300
	05/26/05	0.25	1600	< 50	< 50	< 300
	03/16/05	0.15	1,800	< 50	< 50	< 300
	12/15/04	< 0.1	300	< 50	< 50	< 300
	08/12/04	< 0.1	1,800	< 50	< 50	< 300
	05/27/04	< 0.1	1,900	< 50	< 50	< 300
	03/15/04	< 0.1	1,400	< 50	NA	NA
	12/04/03	< 0.1 UJ	1,500	< 50	< 50	< 300
	08/19/03	< 0.1	1,800	< 50	190 HY	< 300
	06/04/03	< 0.1 UJ	1,700	< 50	< 50	< 300
	03/12/03	< 0.1	1,600	< 50	< 50	< 300
	11/26/02	NA	NA	< 50	NA	NA
DAEGW103	03/14/06	< 0.1 UJ	210	< 50	< 50	< 300
	05/26/05	0.12	270	< 50	< 50	< 300
	03/17/05	0.15	270	< 50	< 50	< 300
DUP0317053A	03/17/05	0.17	270	< 50	< 50	< 300
DAEGW103CL	03/17/05	< 0.05 U UJ	341	< 50 U	< 50 U	< 300 U
	12/15/04	< 0.1	500	< 50	< 50	< 300
DUP1215042A	12/15/04	< 0.1	300	< 50	< 50	< 300
DAEGW103CL	12/15/04	< 0.1	300	< 50 U UJ	< 48 U	< 300 U
	08/11/04	< 0.1	300	< 50	< 50	< 300
DUP0811042B	08/11/04	< 0.1	290	< 50	< 50	< 300
DAEGW103CL	08/11/04	< 0.1	299	< 100	< 100 J-	< 400 UJ
	05/28/04	< 0.1	320	< 50	< 50	< 300
DUP0528041A	05/28/04	< 0.1	320	< 50	< 50	< 300
DAEGW103CL	05/28/04	NA	320	< 50	< 48	< 240
	03/10/04	< 0.1	300	< 50	< 50	< 300
DUP0310043B	03/10/04	< 0.1	310	< 50	< 50	< 300
DAEGW103CL	03/10/04	< 0.05	300	< 50	< 49	< 240
	12/04/03	< 0.1 UJ	290	< 50	< 50	< 300
DUP1204033A	12/04/03	< 0.1 UJ	290	< 50	< 50	< 300
DAEGW103CL	12/04/03	< 0.05	320	< 50	< 48 UJ	< 240 UJ
	08/19/03	< 0.1	300	< 50	54 HY	< 300
DUP0819033B	08/19/03	< 0.1	300	< 50	< 50	< 300
DAEGW103CL	08/19/03	< 0.05 UJ	300	< 50	< 50	< 250
	06/04/03	< 0.1	310	< 50	< 50	< 300
DUP0604033A	06/04/03	< 0.1	300	< 50	< 50	< 300
DAEGW103CL	06/04/03	< 0.4	270	< 50	< 50	< 250

Table A-7-2
Results of MBAS, Total Hardness, and TPH Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	MBAS	Total Hardness	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	E425.1	E130.2/ E310.1	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)
DAEGW103	03/13/03	< 0.1	280	< 50	< 50	< 300
DUP0313033A	03/13/03	< 0.1	300	< 50	< 50	< 300
DAEGW103CL	03/13/03	< 0.05	300	< 50	< 50	< 250
	11/25/02	NA	310	< 50	< 59	< 590
DAEGW104	03/16/06	< 0.1	260	< 50	54 HY	< 300
	05/26/05	0.12	290	< 50	< 50	< 300
DAEGW104CL	05/26/05	< 0.03 U UJ	339	< 50 U	64	< 300 U
DUP0526052A	05/26/05	0.14	340	< 50	< 50	< 300
	03/16/05	< 0.1	300	< 50	< 50	< 300
	12/15/04	< 0.1	310	< 50	< 50	< 300
	08/12/04	0.14	310	< 50	< 50	< 300
	05/27/04	< 0.1	320	< 50	< 50	< 300
	03/15/04	< 0.1	300	< 50	NA	NA
	12/04/03	< 0.1 UJ	310	< 50	< 50	< 300
	08/19/03	< 0.1	290	< 50	< 50	< 300
DUP0819033A	08/19/03	< 0.1	300	< 50	< 50	< 300
	06/04/03	< 0.1	290	< 50	< 50	< 300
	03/12/03	< 0.1	360	< 50	< 50	< 300
	11/25/02	NA	560	< 50	< 50	< 500

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical method used during previous quarters are identified in the respective quarterly reports.
mg/L - milligrams per liter
µg/L - micrograms per liter
NA - Not analyzed
MBAS - Methylene Blue Active Substances
TPH - Total petroleum hydrocarbons
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which the were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-7-3
Results of SVOC, PAH, OCP, PCB, Chlorinated Herbicide, and VOC Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	SVOCs		PAHs			All OCPs and PCBs	All Chlorinated Herbicides	VOCs								
		bis(2-Ethylhexyl)-phthalate	All Other SVOCs	Benzo(a)-pyrene	Benzo(g,h,i)-perylene	All Other PAHs			1,2-Dichloro-ethane	Benzene	Bromo-dichloro-methane	Chloro-form	Chloro-methane	Dibromo-chloro-methane	MTBE	Toluene	All Other VOCs
	Analytical Method[1]	SW8270/ SW8270C	SW8270/ SW8270C	SW8270/ SW8270C/ SW8310	SW8270/ SW8270C/ SW8310	SW8270/ SW8270C/ SW8310	SW8081/ SW8081A/ SW8082/ SW8270	SW8270/ SW8151/ SW8151A	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
DAEGW03	03/14/06	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	0.3 J	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/16/05	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	ND
	03/11/04	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DUP0311043A	03/11/04	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DAEGW03CL	03/11/04	NA	NA	< 0.05 R	< 0.1 UJ	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/20/03	NA	NA	< 0.09	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/13/03	NA	NA	< 0.09	< 0.19	ND	ND	NA	< 0.5	0.2 J	< 0.5	< 0.5	< 1	< 0.5	3.2	< 0.5	ND
	03/12/02	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	05/17/01	NA	NA	< 0.1 UJ	< 0.19 UJ	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1 UJ	< 0.5	< 0.5 UJ	< 0.5	ND
	02/15/99	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	01/13/98	< 10	ND	NA	NA	ND	ND (U6, U16)	ND (U12, U16)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/05/96	10 (J30)	ND	NA	NA	ND	ND (R12)	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	08/28/96	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	05/30/96	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	0.7	< 0.5	NA	< 0.5	ND
	03/05/96	ND	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	2.3	2.4	< 0.5	1	NA	< 0.5	ND
	12/11/95	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	09/11/95	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	11/08/94	3.69	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
	08/27/92	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DAEGW04	03/14/06	NA	NA	< 0.09	< 0.19	ND	ND	NA	< 0.5	0.2 J	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/16/05	NA	NA	< 0.1	< 0.19	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	ND
	03/17/04	NA	NA	< 0.1	< 0.19	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	08/20/03	NA	NA	< 0.1	< 0.19	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/13/03	NA	ND	< 0.09	< 0.19	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/12/02	NA	NA	< 0.1	< 0.19	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	05/17/01	NA	NA	< 0.1 UJ	< 0.19 UJ	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	02/15/99	< 10	ND	NA	NA	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	01/13/98	< 10	ND	NA	NA	ND	ND (U6)	ND (U16)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/05/96	< 10	ND	NA	NA	ND	ND (R6, R12)	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	08/29/96	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	06/10/96	18 (J30, J33)	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	0.6 (J33)	< 0.5	NA	< 0.5	ND
	03/07/96	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/11/95	< 10	ND	NA	NA	ND	ND	ND (U9, U12)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	09/11/95	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	11/09/94	8.95	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
	11/02/92	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DAEGW05	03/14/06	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/16/05	NA	NA	< 0.1	< 0.2	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	ND
	03/16/05	NA	NA	< 0.1	< 0.2	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	ND
	03/11/04	NA	NA	< 0.1	< 0.2	ND	ND	NA	< 0.5	0.2 J	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	08/19/03	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/13/03	NA	ND	< 0.09	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/12/02	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DUP0312023A	03/12/02	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND

Table A-7-3
Results of SVOC, PAH, OCP, PCB, Chlorinated Herbicide, and VOC Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	SVOCs		PAHs			All OCPs and PCBs	All Chlorinated Herbicides	VOCs								
		bis(2-Ethylhexyl)-phthalate	All Other SVOCs	Benzo(a)-pyrene	Benzo(g,h,i)-perylene	All Other PAHs			1,2-Dichloro-ethane	Benzene	Bromo-dichloro-methane	Chloro-form	Chloro-methane	Dibromo-chloro-methane	MTBE	Toluene	All Other VOCs
	Analytical Method[1]	SW8270/ SW8270C	SW8270/ SW8270C	SW8270/ SW8270C/ SW8310	SW8270/ SW8270C/ SW8310	SW8270/ SW8270C/ SW8310	SW8081/ SW8081A/ SW8082/ SW8270	SW8270/ SW8151/ SW8151A	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
DAEGW05	05/17/01	NA	NA	< 0.1 UJ	< 0.19 UJ	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/15/99	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	NA	< 0.5	ND
	01/14/98	< 10	ND	NA	NA	ND	ND (U6, U16, R, R6, R12)	ND (U16)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/06/96	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	08/29/96	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	05/30/96	13 (J30)	ND	NA	NA	ND	ND	ND (U15)	0.6	< 0.5	< 0.5	< 0.5	0.8	< 0.5	NA	< 0.5	ND
	03/06/96	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/11/95	< 10	ND	NA	NA	ND	ND	ND (U9, U12)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	09/12/95	11 (J30)	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	11/08/94	10.1	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
	11/02/92	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DAEGW06	03/16/06	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/16/05	NA	NA	< 0.1	< 0.2	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	ND
	03/11/04	NA	NA	< 0.1	< 0.19	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	08/20/03	NA	NA	< 0.1	< 0.19	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/12/03	NA	ND	< 0.09	< 0.19	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/12/02	NA	NA	< 0.1	< 0.19	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	05/17/01	NA	NA	< 0.1 UJ	< 0.19 UJ	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1 UJ	< 0.5	< 0.5 UJ	< 0.5	ND
DUP0517012A	05/17/01	NA	NA	< 0.1	< 0.19	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	NA	< 0.5	ND
	02/15/99	< 10	ND	NA	NA	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	01/13/98	< 10	ND	NA	NA	ND	ND (U6, U16)	ND (U16)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/06/96	< 10	ND	NA	NA	ND	ND (R12)	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	08/28/96	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	0.6	ND
	05/30/96	< 10	ND	NA	NA	ND	ND	ND (U15)	0.6	< 0.5	< 0.5	< 0.5	1	< 0.5	NA	11	ND
	03/06/96	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/11/95	< 10	ND	NA	NA	ND	ND	ND (U9, U12)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	09/12/95	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 3.4 (U2)	ND
	04/05/95	< 20.7	ND	NA	NA	NA	NA	NA	< 0.5	NA	NA	NA	NA	NA	NA	NA	ND
DAEGW07	03/15/06	NA	NA	< 0.09	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/18/05	< 9.8	ND	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	ND
	03/17/04	< 9.8	ND	< 0.09	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DUP0317041A	03/17/04	< 9.8	ND	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/19/03	< 9.8	ND	< 0.1	< 0.2	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/11/02	< 9.5	ND	< 0.1	< 0.2	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	05/18/99	< 10	ND	NA	NA	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	03/15/99	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.6	< 0.5	NA	< 0.5	ND
	04/15/98	< 10	ND	NA	NA	ND	ND	ND (U16)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	01/14/98	< 10	ND	NA	NA	ND	ND (U6, U16)	ND (U16)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/12/97	20 (J30)	ND	NA	NA	ND (R12)	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	02/13/97	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	03/07/96	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/14/95	< 10	ND	NA	NA	ND	ND	ND (U9, U12)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	04/04/95	53.4	ND	NA	NA	NA	NA	NA	< 0.5	NA	NA	NA	NA	NA	NA	NA	ND

Table A-7-3
Results of SVOC, PAH, OCP, PCB, Chlorinated Herbicide, and VOC Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	SVOCs		PAHs			All OCPs and PCBs	All Chlorinated Herbicides	VOCs								
		bis(2-Ethylhexyl)-phthalate	All Other SVOCs	Benzo(a)-pyrene	Benzo(g,h,i)-perylene	All Other PAHs			1,2-Dichloro-ethane	Benzene	Bromo-dichloro-methane	Chloro-form	Chloro-methane	Dibromo-chloro-methane	MTBE	Toluene	All Other VOCs
	Analytical Method[1]	SW8270/ SW8270C	SW8270/ SW8270C	SW8270/ SW8270C/ SW8310	SW8270/ SW8270C/ SW8310	SW8270/ SW8270C/ SW8310	SW8081/ SW8081A/ SW8082/ SW8270	SW8270/ SW8151/ SW8151A	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
DAEGW08	03/14/06	NA	NA	< 0.09	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/28/05	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	ND
	03/17/04	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	08/18/03	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/19/03	NA	ND	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/11/02	NA	NA	0.12	0.2	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	05/16/01	NA	NA	< 0.1 UJ	< 0.19 UJ	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5 UJ	< 0.5	ND
	02/16/99	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	01/14/98	< 10	ND	NA	NA	ND	ND (U6, U16)	ND (U16)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/06/96	< 10	ND	NA	NA	ND	ND (R6, R12)	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	08/29/96	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	06/10/96	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	0.7	< 0.5	NA	1.4	ND
	03/07/96	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	12/14/95	< 10	ND	NA	NA	ND	ND	ND (U9, U12)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	09/12/95	< 10	ND	NA	NA	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	ND
	04/03/95	< 20.8	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
DAEGW101	03/16/06	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	05/26/05	NA	NA	< 0.1	< 0.2	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/16/05	NA	NA	< 0.09	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	ND
	08/12/04	NA	NA	< 0.1	< 0.2	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1 UJ	< 0.5	< 0.5	< 0.5	ND
	05/27/04	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/11/04	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	06/05/03	NA	NA	< 0.09	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/13/03	< 9.4	ND	< 9.4	< 9.4	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DAEGW102	03/16/06	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	05/26/05	NA	NA	< 0.1	< 0.2	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/16/05	NA	NA	< 0.1	< 0.2	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	ND
	12/15/04	NA	NA	< 0.09	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	08/12/04	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1 UJ	< 0.5	< 0.5	< 0.5	ND
	05/27/04	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/15/04	NA	NA	< 0.1	< 0.2	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	12/04/03	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	08/19/03	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	06/04/03	NA	NA	< 0.09	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/12/03	< 9.6	ND	< 9.6	< 9.6	ND	NA	NA	< 0.5	0.3 J	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DAEGW103	03/14/06	NA	NA	< 0.09	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	05/26/05	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/17/05	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	ND
DUP0317053A	03/17/05	NA	NA	< 0.1	< 0.2	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	ND
DAEGW103CL	03/17/05	NA	NA	< 0.2 U	< 0.2 U	ND	ND	ND	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U UJ	< 4.5 U	< 2 U	< 0.5 U	ND
	12/15/04	NA	NA	< 0.09	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DUP1215042A	12/15/04	NA	NA	< 0.09	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DAEGW103CL	12/15/04	NA	NA	< 0.2 U UJ	< 0.2 U	ND	ND	ND	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 0.5 U	< 2 U	< 0.5 U	ND
	08/11/04	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1 UJ	< 0.5	< 0.5	< 0.5	ND
DUP0811042B	08/11/04	NA	NA	< 0.09	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1 UJ	< 0.5	< 0.5	< 0.5	ND
DAEGW103CL	08/11/04	NA	NA	< 0.5	< 0.5	ND	ND	ND	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	ND

Table A-7-3
Results of SVOC, PAH, OCP, PCB, Chlorinated Herbicide, and VOC Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	SVOCs		PAHs			All OCPs and PCBs	All Chlorinated Herbicides	VOCs								
		bis(2-Ethylhexyl)-phthalate	All Other SVOCs	Benzo(a)-pyrene	Benzo(g,h,i)-perylene	All Other PAHs			1,2-Dichloro-ethane	Benzene	Bromo-dichloro-methane	Chloro-form	Chloro-methane	Dibromo-chloro-methane	MTBE	Toluene	All Other VOCs
	Analytical Method[1]	SW8270/ SW8270C	SW8270/ SW8270C	SW8270/ SW8270C/ SW8310	SW8270/ SW8270C/ SW8310	SW8270/ SW8270C/ SW8310	SW8081/ SW8081A/ SW8082/ SW8270	SW8270/ SW8151/ SW8151A	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
DAEGW103	05/28/04	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DUP0528041A	05/28/04	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DAEGW103CL	05/28/04	NA	NA	< 0.048	< 0.095	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/10/04	NA	NA	< 0.1	< 0.2	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DUP0310043B	03/10/04	NA	NA	< 0.1	< 0.2	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DAEGW103CL	03/10/04	NA	NA	< 0.05 R	< 0.1	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/03	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DUP1204033A	12/04/03	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DAEGW103CL	12/04/03	NA	NA	< 0.049 UJ	< 0.097 UJ	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/19/03	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DUP0819033B	08/19/03	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DAEGW103CL	08/19/03	NA	NA	< 0.049	< 0.097	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/04/03	NA	NA	< 0.09	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DUP0604033A	06/04/03	NA	NA	< 0.09	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	06/04/03	NA	NA	< 0.048	< 0.095	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/13/03	< 9.5	ND	< 9.5	< 9.5	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DUP0313033A	03/13/03	< 9.5	ND	< 9.5	< 9.5	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DAEGW103CL	03/13/03	< 10	ND	< 10	< 10	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.55	ND
	11/25/02	< 10	ND	< 2	< 2	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 1	7.9	< 0.5	< 5	< 0.5	ND
DAEGW104	03/16/06	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	05/26/05	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DUP0526052A	05/26/05	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DAEGW104CL	05/26/05	NA	NA	NA	NA	ND	ND	ND	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 0.5 U	< 2 U	< 0.5 U	ND
	03/16/05	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	ND
	12/15/04	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	08/12/04	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	05/27/04	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/15/04	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	12/04/03	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	08/19/03	NA	NA	< 0.09	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DUP0819033A	08/19/03	NA	NA	< 0.09	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	06/04/03	NA	NA	< 0.09	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	03/12/03	< 9.5	ND	< 9.5	< 9.5	ND	NA	NA	< 0.5	0.1 J	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
	11/25/02	< 10	ND	< 2	< 2	ND	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 1	< 0.5	< 5	< 0.5	ND
DAESP03	03/08/06	NA	NA	< 0.1 UJ	< 0.2	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DUP0308063A	03/08/06	NA	NA	< 0.1	< 0.19	ND	ND	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	ND
DAESP03CL	03/08/06	NA	NA	< 0.2 U	< 0.2 U	ND	ND	NA	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 0.5 U	< 2 U	< 0.5 U	ND
	03/22/05	NA	NA	< 0.1	< 0.19	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 4	< 0.5	< 0.5	ND

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
µg/L - micrograms per liter
NA - Not analyzed
ND - Not detected
PAHs - Polycyclic aromatic hydrocarbons
OCPs - Organochlorine pesticides
PCBs - Polychlorinated biphenyls
VOCs - Volatile organic compounds
SVOCs - Semi-volatile organic compounds
MTBE - Methyl tert-butyl ether
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-7-4
Results of Dissolved Metals Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
DAEGW03	03/14/06	< 100	1.4	< 5	100	< 2	20	65,000	< 10	< 10	2.6	NA	170	< 3	130,000	2,900	NA	NA	35	1,500	< 5	< 1	140,000	< 1	< 10	110	1,090
	03/16/05	< 100	< 1	< 5	71	< 2	1.6	58,000	< 10	< 10	2.1	NA	140	< 3	140,000	91	NA	NA	< 20	1,300	< 5	< 1	130,000	< 1	< 10	< 20	920
	03/11/04	< 100	< 1	< 5	67	< 2	1.8	68,000	13	< 10	1.6	NA	200	< 3	140,000	49	NA	NA	< 20	< 500	< 5	< 1 UJ	140,000	< 1	< 10	< 20	1,010
DUP0311043A	03/11/04	< 100	< 1	< 5	69	< 2	2.6	67,000	12	< 10	1.7	NA	220	< 3	140,000	61	NA	NA	< 20	500	< 5	< 1 UJ	140,000	< 1	< 10	< 20	950
DAEGW03CL	03/11/04	< 100	< 5	< 5	62	< 1	2.8	68,000	10	< 7	< 10	NA	< 500	< 3	140,000	46	NA	NA	< 10	< 1,000	< 5	< 1	130,000	< 2	< 10	< 20	940
	08/20/03	< 100	< 1	< 5	60	< 2	< 1	67,000	14	< 10	< 1	NA	580	< 3	140,000	37	NA	< 5	< 20	600	< 5	< 1 UJ	140,000	< 1	< 10	< 20 UJ	1,130
	03/13/03	< 100	1.9	< 1	75	< 1	1.8	67,000	17	< 1	1.6	NA	170 J	< 3	140,000	24	NA	NA	8.7	710	< 5	< 1 UJ	150,000	< 1	< 10	< 10	1180
	12/04/02	< 100	< 1	< 1	76	< 1	< 1	67,000	17	< 1	2.1	NA	210	< 3	130,000	24	NA	NA	9.8	650	< 5	< 1 UJ	140,000	2.3	< 10	< 10	1,140
	09/03/02	< 100	< 1	< 1	400	< 1	< 1	78,000	11 J	< 1	1.6	NA	100	< 3	160,000	< 10	NA	NA	7.6	930	< 5	< 1 UJ	170,000	< 1	< 10	69	1,190
	06/04/02	< 100	< 1	1.2	490	< 1	1.4	77,000	16	< 1	2.4	NA	310	< 3	170,000	76	NA	NA	12	1,500	< 5	< 1	170,000	< 1	11	100	1,360
	03/12/02	< 100	1	< 1	370	< 1	2.4	86,000	19	< 1	1.5	NA	190	< 3	180,000	< 10	NA	NA	9.3	640	< 5	< 1 UJ	170,000	< 1	< 10	29	1,180
	12/03/01	< 100	1.8	1	550	< 1	1.5	84,000	22 J	< 1	2.8	NA	< 100	< 3	180,000	<10	NA	NA	12 J	1,000	< 5	< 1	150,000	< 1	< 10	230	1,230
	08/28/01	< 100	1.3	1.4	230	< 1	1.5	85,000	19	< 1	3.1	NA	420	< 3	180,000	< 10	NA	NA	7.4	1,200	< 5	< 1	150,000	< 1	< 10	49	1,280
	05/17/01	< 100	1.1 J	< 1 UJ	380 J	< 1 UJ	1.9 J	84,000 J	23 J	< 1 UJ	3.8 J	NA	200 J	< 3 UJ	170,000	< 10 UJ	NA	NA	10 J	690 J	< 5 UJ	< 1 UJ	160,000	< 1 UJ	< 10 UJ	79 J	1,150
	05/17/99	< 100	< 5	< 5	77	< 4	11.2	78,100	24.3	< 10	< 10	NA	< 100	< 3	154,000	92.3	NA	NA	< 20	< 5,000	< 5	< 2	167,000	< 2	< 10	54.8	1,320
	02/15/99	< 100	< 5	< 5	78.3	< 4	9.5	81,100	26.4	< 10	22	NA	< 100	< 3	168,000	45.5	NA	NA	< 20	< 5,000	< 5	< 2	166,000	< 2	< 10	61.8	1,770
	11/16/98	< 100	< 5	< 5	76.7	< 4	8.4	80,800	30	< 10	< 10	NA	< 100	5.7	169,000	32.1	NA	NA	< 20	< 5,000	5.4	< 2	177,000	2.4	< 10	48.2	1,350
	08/14/98	< 100	< 5	< 5	86.2	< 4	10.3	83,700	24.9	< 10	12.9	NA	< 100	< 3	167,000	31.2	NA	NA	< 20	< 5,000	< 5	< 2	202,000	< 2	< 10	43	1,360
	04/14/98	< 100	< 5	< 5	87	< 4	11	85,000	22	< 10	17	NA	< 100	< 3	180,000	77	NA	NA	< 20	< 5,000	< 5	< 2	190,000	< 2	< 10	46	1,200
	01/13/98	< 100	< 5	< 5	80	< 4	11	80,000	20	< 10	< 10	NA	< 100	3	170,000	140	NA	NA	< 20	< 5,000	11	< 2	140,000	< 2	< 10	60	1,400
	11/10/97	< 100	< 5	< 5	70	< 4	< 2	75,000	20	< 10	< 10	NA	< 100	< 3	160,000	60	NA	NA	< 20	< 5,000	10	< 2	150,000	< 2	< 10	< 20	1,400 (J29)
	08/11/97	< 100	< 5	6	80	< 4	< 2	77,000	20	< 10	< 10	NA	< 100	< 3	160,000	50	NA	NA	< 20	< 5,000	20	< 2	180,000	< 2	< 10	< 20	1,400
	05/13/97	< 100	< 20	6	80	< 4	< 2	77,000	20	< 10	< 10	NA	< 100	< 3	160,000	20	NA	NA	< 20	< 5,000	19	< 2	180,000	< 2	< 10	< 20	1,400
	02/12/97	< 100	< 5	< 5	80	< 4	< 2	73,000	20	< 10	< 10	NA	< 100	< 3	160,000	140	NA	NA	< 20	< 5,000	10	< 2	180,000	< 2	< 10	< 20	1,300 (J29)
	12/05/96	< 100	< 5	8	80	< 4	< 2	73,000	20	< 10	< 10	NA	< 100	< 3	150,000	20	< 0.2	NA	< 20	< 5,000	23	< 2	180,000	< 2	10	< 20	NA
	08/28/96	< 100	< 5	< 5	90	< 2	< 0.5	82,000	16	< 10	1	NA	< 100	3	170,000	40	< 0.2	NA	13	< 5,000	22	< 0.5	200,000	< 2	< 10	50	NA
	05/30/96	< 100	< 5	< 5	90	< 2	< 0.5	81,000	15	< 10	2	NA	< 100	1	170,000	40	< 0.2	NA	12	< 5,000	5	< 0.5	220,000	< 2	< 10	20	NA
	03/05/96	< 100 U	< 5 U	< 5 U	75	< 2 U	< 0.5 U	72,400	20	< 10 U	2	NA	< 100 U	< 1 U	159,000	62	< 0.2 U	NA	11	< 5,000 U	< 5 U	< 0.5 U	214,000	< 2 U	10	< 20 U	NA
	12/11/95	< 100	< 5	< 5	74	< 2	< 0.5	72,300	22	< 10	2	NA	< 100	< 1	158,000	42	< 0.2	NA	15	< 5,000	< 5	< 0.5	21,000	< 2	< 10	33	NA
	09/11/95	< 200 U	< 60 U	< 5 U	80	< 2 U	< 2 U	72,000	21	< 20 U	< 10 U	NA	< 100 U	< 3 U	170,000	36	< 0.2 U	< 20	< 20 U	< 500 U	10	< 5 U	180,000	< 5 U	< 10 U	< 20 U	NA
DAEGW04	03/14/06	< 100	< 1	< 5	27	< 2	< 1	38,000	12	< 10	2.3	NA	110	< 3	98,000	27	NA	NA	790	5,100	< 5	< 1	72,000	< 1	< 10	< 20	810
	03/16/05	< 100	< 1	< 5	47	< 2	< 1	36,000	< 10	50	3.1	NA	110	< 3	93,000	1,600	NA	NA	490	4,000	< 5	< 1	67,000	< 1	< 10	< 20	620
	03/17/04	< 100	< 1	< 5	37	< 2	< 1	47,000	31	< 10	1.7	NA	130	< 3	100,000	< 10	NA	NA	3,600 J+	14,000	< 5	< 1 UJ	81,000	< 1	< 10	< 20	770
	08/20/03	< 100	1	< 5	30	< 2	< 1	46,000	13	< 10	3.3	NA	480	< 3	93,000	35	NA	< 5	5,100	10,000	< 5	< 1 UJ	68,000	< 1	< 10	< 20 UJ	780
	03/13/03	< 100	1.3	< 1	31	< 1	< 1	45,000	11	3	1.5	NA	140 J	< 3	91,000	54	NA	NA	4,000	13,000	< 5	< 1 UJ	67,000	< 1	< 10	< 10	710
	12/04/02	< 100	< 1	< 1	27	< 1	< 1	41,000	4.9	2.6	< 1	NA	150	< 3	74,000	19	NA	NA	3,800	4,300	< 5	< 1 UJ	53,000	< 1	< 10	< 10	680
	09/03/02	< 100	1.8	< 1	570	< 1	< 1	47,000	5 J	1.7	1.2	NA	< 100	< 3	85,000	18	NA	NA	2,100	1,800	< 5	< 1 UJ	64,000	< 1	< 10	260	610
	06/04/02	< 100	1	< 1	460	< 1	< 1	50,000	19	1.9	2	NA	190	< 3	91,000	19	NA	NA	520	3,800	< 5	< 1	65,000	< 1	< 10	170	660
	03/12/02	< 100	< 1	< 1	480	< 1	< 1	52,000	15	2	1.7	NA	150	< 3	97,000	23	NA	NA	510	10,000	< 5	< 1 UJ	68,000	< 1	< 10	150	710
	12/03/01	< 100	< 1	< 1	300	< 1	< 1	51,000	5.9	2.9	2.7	NA	< 100	< 3	91,000	16	NA	NA	4,100 J	14,000	< 5	1.2	76,000	< 1	< 10	45	690
DUP1203011B	12/03/01	< 100	1.5	< 1	600	< 1	< 1	54,000	5.8	3	1.9	NA	< 100	< 3	93,000	17	NA	NA	4,100 J	13,000	< 5	<1	82,000	< 1	< 10	200	710
	08/29/01	< 100	1.4	< 1	310 J+	< 1	< 1	46,000	18	1.8	1.8	NA	130	< 3	88,000	12	NA	NA	2,200	8,500	< 5	< 1 UJ	75,000	< 1	< 10	51	590
	05/17/01	< 100	1.5 J	< 1 UJ	430 J	<1 UJ	<1 UJ	43,000 J	14 J	2.4 J	1.3 J	NA	190 J	<3 UJ	84,000	21 J	NA	NA	1,300 J	6,300 J	<5 UJ	<1 UJ	70,000	< 1 UJ	<10 UJ	140 J	650
	05/17/99	< 100	< 5	< 5	46.1	< 4	< 2	43,300	15.5	< 10	< 10	NA	184	3.7	76,700	22.4	NA	NA	893	5,220	< 5	< 2	56,300	< 2	< 10	58	715
	02/15/99	< 100	< 5	< 5	28	< 4	< 2	34,000	14.8	< 10	< 10	NA	103	< 3	57,600	26.8	NA	NA	1,270	14,100	< 5	< 2	51,600	< 2	< 10	21.7	653
	11/16/98	< 100	< 5	< 5	22.9	< 4	< 2	27,300	23.4	< 10	19.5	NA	149	4.1	45,400	25.8	NA	NA	822	< 5,000	< 5	< 2	40,700	< 2	< 10	25.4	409
	08/14/98	< 100	< 5	< 5	29.7	< 4	< 2	29,900	11.6	31.4	< 10	NA	< 100	3.1	51,800	606	NA	NA	2,450	10,000	< 5	< 2	51,400	< 2	< 10	26.1	398

Table A-7-4
Results of Dissolved Metals Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
DAEGW04	04/14/98	< 100	< 5	< 5	41	< 4	< 2	34,000	20	< 10	< 10	NA	< 100	< 3	70,000	17	NA	NA	350	< 5,000	< 5	< 2	53,000	< 2	< 10	< 20	420
	01/13/98	< 100	< 5	< 5	30	< 4	< 2	30,000	10	< 10	< 10	NA	< 100	< 3	58,000	10	NA	NA	420	9,000	< 5	< 2	51,000	< 2 (U9)	< 10	< 20	490
	11/10/97	< 100	< 5	< 5	20	< 4	< 2	23,000	20	< 10	< 10	NA	< 100	< 3	42,000	10	NA	NA	1,700	14,000	< 5	< 2	48,000	< 2 (U9)	< 10	< 20	< 440 (U1, U29)
	08/11/97	< 100	< 5	< 5	10	< 4	< 2	15,000	10	< 10	< 10	NA	< 100	< 3	19,000	10	NA	NA	790	13,000	< 5	< 2	28,000	< 2 (U9)	< 10	< 20	220
	05/13/97	< 100	< 5	< 5	20	< 4	< 2	27,000	10	< 10	< 10	NA	< 100	< 3	52,000	10	NA	NA	270	5,000	9 (J23)	< 2	48,000	< 2 (U9)	< 10	< 20	450
	02/12/97	100	< 5	< 5	30	< 4	< 2	31,000	10	< 10	< 10	NA	< 100	< 3	64,000	10	NA	NA	260	< 5,000	< 5	< 2	54,000	< 2 (U9)	< 10	< 20	490 (J29)
	12/05/96	< 100	< 5	< 5	30	< 4	< 2	30,000	20	< 10	< 10	NA	< 100	3	60,000	20	< 0.2	NA	460	9,000	9	< 2	52,000	< 2	< 10	< 20	NA
	08/29/96	< 100	< 5	< 5	30	< 2	< 0.5	33,000	11	< 10	1	NA	< 100	2	68,000	30	< 0.2	NA	420	7,000	6	< 0.5	55,000	< 2	< 10	< 20	NA
	06/10/96	< 100	< 5	< 5	30	< 2	< 0.5	32,000	14	< 10	1	NA	< 100	2	62,000	40	< 0.2	NA	730	7,000	< 5	< 0.5	58,000	< 2	< 10	< 20	NA
	03/07/96	< 100 U	< 5 U	< 5 U	27	< 2 U	< 0.5 U	32,600	12	< 10 U	2	NA	< 100 U	< 1 U	63,900	25	< 0.2 U	NA	956	9,390	< 5 U	< 0.5 U	51,000	< 2 U	< 10 U	< 20 U	NA
	12/11/95	< 100	< 5	< 5	19	< 2	< 0.5	22,300	16	< 10	1	NA	< 100	< 1	44,100	22	< 0.2	NA	491	6,180	< 5	< 0.5	44,000	< 2	< 10	< 20	NA
	09/11/95	< 200 U	< 60 U	< 5 U	35	< 2 U	< 2 U	26,000	130	< 20 U	13	NA	2,600	< 3 U	57,000	76	< 0.2 U	< 20	340	1,500	< 5 U	< 5 U	47,000	< 5 U	< 10 U	< 20 U	NA
DAEGW05	03/14/06	< 100	< 1	< 5	63	< 2	< 1	66,000	14	< 10	2.2	NA	190	< 3	100,000	20	NA	NA	100	790	< 5	< 1	84,000	< 1	< 10	< 20	210
	03/16/05	< 100	< 1	< 5	73	< 2	< 1	58,000	17	< 10	1.9	NA	210	< 3	95,000	14	NA	NA	72	800	< 5	< 1	74,000	< 1	< 10	< 20	910
DUP0316053A	03/06/05	< 100	< 1	< 5	70	< 2	< 1	64,000	19	< 10	2.3	NA	230	< 3	120,000	13	NA	NA	69	900	< 5	< 1	83,000	< 1	< 10	< 20	680
	03/11/04	< 100	< 1	< 5	68	< 2	< 1	77,000	< 10	< 10	1.6	NA	240	< 3	120,000	10	NA	NA	40	710	< 5	< 1 UJ	86,000	< 1	< 10	< 20	770
	08/19/03	< 100	1.1	< 5	69	< 2	< 1	74,000	11	< 10	1.1	NA	430	< 3	120,000	11	NA	< 5	33	550	< 5	< 1 UJ	81,000	< 1	< 10	< 20 UJ	< 10
	03/13/03	< 100	< 1	< 1	68	< 1	< 1	71,000	12	< 1	1	NA	190 J	< 3	110,000	11	NA	NA	37	700	< 5	< 1 UJ	82,000	< 1	< 10	< 10	910
	12/04/02	< 100	< 1	< 1	67	< 1	< 1	73,000	15	< 1	1.1	NA	220	< 3	110,000	< 10	NA	NA	43	520	< 5	< 1 UJ	78,000	< 1	< 10	< 10	930
	09/03/02	< 100	< 1	< 1	380	< 1	< 1	82,000	8.5 J	< 1	1.5	NA	110	< 3	130,000	10	NA	NA	50	760	< 5	< 1 UJ	89,000	< 1	< 10	110	930
	06/04/02	< 100	1.3	< 1	420	< 1	< 1	82,000	16	< 1	1.7	NA	330	< 3	130,000	12	NA	NA	49	960	< 5	< 1	91,000	< 1	< 10	140	1,040
	03/12/02	< 100	1.1	< 1	360	< 1	< 1	91,000	6.5	< 1	2.2	NA	220	< 3	150,000	11	NA	NA	48	910	< 5	< 1 UJ	100,000	< 1	< 10	31	950
DUP0312023A	03/12/02	< 100	< 1	< 1	190	< 1	< 1	86,000	7	< 1	2.1	NA	210	< 3	140,000	11	NA	NA	49	850	< 5	< 1 UJ	96,000	< 1	< 10	13	980
	12/03/01	< 100	< 1	< 1	730	< 1	< 1	99,000	5.6	< 1	2.7	NA	< 100	< 3	82,000	13	NA	NA	27 J	1,400	< 5	< 1	100,000	< 1	< 10	250	1,060
	08/28/01	< 100	< 1	1.1	330	< 1	< 1	85,000	7.8	< 1	3.5	NA	440	< 3	130,000	< 10	NA	NA	33	720	< 5	< 1	89,000	< 1	< 10	61	1,010
	05/17/01	< 100	1.6 J	< 1 UJ	380 J	< 1 UJ	< 1 UJ	83,000 J	11 J	< 1 UJ	1.8 J	NA	250 J	< 3 UJ	140,000	< 10 UJ	NA	NA	36 J	890 J	< 5 UJ	< 1 UJ	110,000	< 1 UJ	< 10 UJ	34 J	1,000
	05/18/99	< 100	< 5	< 5	67.7	< 4	< 2	65,900	14.8	< 10	< 10	NA	< 100	5.5	92,300	< 10	NA	NA	48.5	< 5,000	< 5	< 2	92,700	< 2	< 10	< 20	825
	03/15/99	< 100	< 5	< 5	76.4	< 4	< 2	72,500	11.5	< 10	< 10	NA	< 100	< 3	109,000	< 10	NA	NA	51.9	< 5,000	< 5	< 2	91,200	< 2	< 10	< 20	948
	11/17/98	< 100	< 5	< 5	78.5	< 4	< 2	73,200	16.8	< 10	19.1	NA	< 100	5.4	108,000	11.9	NA	NA	82.4	< 5,000	5	< 2	93,700	< 2	< 10	< 20	893
	08/17/98	< 100	< 5	< 5	72.7	< 4	< 2	69,200	18	< 10	< 10	NA	< 100	< 3	101,000	< 10	NA	NA	74.6	< 5,000	< 5	< 2	95,700	< 2	< 10	< 20	908
	04/15/98	< 100	< 5	< 5	72	< 4	< 2	68,000	18	< 10	10	NA	< 100	< 3	100,000	11	NA	NA	80	< 5,000	< 5	< 2	89,000	< 2	< 10	< 20	810
	01/14/98	< 100	< 5	< 5	70	< 4	< 2	70,000	10	< 10	< 10	NA	< 100	< 3	110,000	10	NA	NA	70	< 5,000	6	< 2	91,000	< 2	< 10	< 20	940
	11/11/97	< 100	< 5	< 5	70	< 4	< 2	66,000	< 10	< 10	< 10	NA	< 100	< 3	110,000	< 10	NA	NA	80	< 5,000	5	< 2	94,000	< 2	< 10	< 20	940
	08/12/97	< 100	< 5	< 5	70	< 4	< 2	69,000	10	< 10	< 10	NA	< 100	< 3	110,000	< 10	NA	NA	70	< 5,000	13	< 2	98,000	< 2	< 10	< 20	930
	05/14/97	< 100	< 5	< 5	60	< 4	< 2	60,000	20	< 10	< 10	NA	< 100	< 3	91,000	10	NA	NA	60	< 5,000	7	< 2	83,000	< 2	< 10	20	530 (J33)
	02/13/97	< 100	< 5	< 5	70	< 4	< 2	72,000	20	< 10	< 10	NA	200	< 3	110,000	< 10	NA	NA	50	< 5,000	< 5	< 2	100,000	< 2	< 10	< 20	920
	12/06/96	< 100	< 5	< 5	70	< 4	< 2	73,000	20	< 10	< 10	NA	< 100	3	120,000	< 10	< 0.2	NA	70	< 5,000	15	< 2	97,000	< 2	< 10	40	NA
	08/29/96	< 100	< 5	< 5	70	< 2	< 0.5	71,000	14	< 10	1	NA	< 100	1	110,000	< 10	< 0.2	NA	77	< 5,000	14	< 0.5	93,000	< 2	< 10	< 20	NA
	05/30/96	< 100	< 5	< 5	70	< 2	< 0.5	66,000	17	< 10	< 1	NA	< 100	< 1	98,000	< 10	< 0.2	NA	44	< 5,000	< 5	< 0.5	100,000	< 2	< 10	< 20	NA
	03/06/96	< 100 U	< 5 U	< 5 U	67	< 2 U	< 0.5 U	66,500	22	< 10 U	< 1 U	NA	< 100 U	< 1 U	101,000	12	< 0.2 U	NA	61	< 5,000 U	< 5 U	< 0.5 U	97,000	< 2 U	< 10 U	< 20 U	NA
	12/11/95	< 100	< 5	< 5	74	< 2	< 0.5	85,200	15	< 10	1	NA	< 100	< 1	137,000	39	< 0.2	NA	125	< 5,000	< 5	< 0.5	110,000	< 2	< 10	< 20	NA
	09/12/95	< 200 U	< 60 U	< 5 U	66	< 2 U	< 2 U	63,000	22	< 20 U	< 10 U	NA	< 100 U	< 3 U	110,000	19	< 0.2 U	< 20	90	1,200	8.4	< 5 U	83,000	< 5 U	< 10 U	35	NA
DAEGW06	03/16/06	< 100	< 1	< 5	51	< 2	< 1	30,000	< 10	< 10	< 1	NA	< 100	< 3	57,000 J	< 10	NA	NA	< 20	870 J-	< 5	< 1	31,000	< 1	< 10	< 20	540 J
	03/16/05	< 100	< 1	< 5	50	< 2	< 1	32,000	< 10	< 10	< 1	NA	< 100	< 3	64,000	140	NA	NA	< 20	870	< 5	< 1	35,000	< 1	< 10	< 20	500
	03/11/04	< 100	< 1	< 5	77	< 2	< 1	35,000	< 10	< 10	< 1	NA	120	< 3	62,000	1,900	NA	NA	< 20	860	< 5	< 1 UJ	35,000	< 1	< 10	< 20	390
	08/20/03	< 100	< 1	< 5	41	< 2	< 1	35,000	< 10	< 10	< 1	NA	280	< 3	64,000	< 10	NA	< 5	< 20	920	< 5	< 1 UJ	36,000	< 1	< 10	< 20 UJ	500

Table A-7-4
Results of Dissolved Metals Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
DAEGW06	03/12/03	< 100	1.8	< 1	57	< 1	< 1	33,000	< 1	< 1	< 1	NA	< 100 UJ	< 3	66,000	800	NA	NA	2.5	920	< 5	< 1 UJ	37,000	< 1	< 10	< 10	430
	12/04/02	< 100	< 1	1.2	49	< 1	< 1	30,000	< 1	< 1	< 1	NA	130	< 3	56,000	330	NA	NA	1.9	890	< 5	< 1 UJ	31,000	< 1	< 10	< 10	440
	09/03/02	< 100	< 1	1.3	380	< 1	< 1	34,000	< 1 UJ	< 1	< 1	NA	< 100	< 3	64,000	< 10	NA	NA	< 1	1,000	< 5	< 1 UJ	36,000	< 1	< 10	96	420
	06/04/02	< 100	< 1	1.3	650	< 1	< 1	34,000	2	< 1	1.2	NA	120	< 3	64,000	< 10	NA	NA	< 1	1,100	< 5	< 1	36,000	< 1	< 10	180	400
	03/12/02	< 100	< 1	1	250	< 1	< 1	31,000	< 1	< 1	2	NA	100	< 3	68,000	220	NA	NA	4	1,100	< 5	< 1 UJ	36,000	< 1	< 10	35	410
	12/03/01	< 100	2	1	940	< 1	< 1	42,000	3	< 1	1.9	NA	< 100	< 3	74,000	140	NA	NA	3.5	1,200	< 5	< 1	47,000	< 1	< 10	180	470
	08/28/01	< 100	1.5	1.6	380	< 1	< 1	37,000	< 1	< 1	5	NA	190	< 3	69,000	< 10	NA	NA	1.2	1,100	< 5	< 1	38,000	< 1	< 10	150	440
	05/17/01	< 100	< 1 UJ	1.5 J	71 J	< 1 UJ	< 1 UJ	39,000 J	< 1 UJ	< 1 UJ	1.2 J	NA	120 J	< 3 UJ	78,000	< 10 UJ	NA	NA	< 1 UJ	1,100 J	< 5 UJ	< 1 UJ	43,000	< 1 UJ	< 10 UJ	14 J	450
DUP0517012A	05/17/01	< 100	1.3 J	1.4 J	85 J	< 1 UJ	< 1 UJ	37,000 J	< 1 UJ	< 1 UJ	1.3 J	NA	120 J	< 3 UJ	78,000	< 10 UJ	NA	NA	< 1 UJ	1,100 UJ	< 5 UJ	< 1 UJ	40,000	< 1 UJ	< 10 UJ	14 J	430
	05/17/99	< 100	< 5	< 5	30.2	< 4	< 2	35,400	< 10	< 10	< 10	NA	606	< 3	61,500	967	NA	NA	< 20	< 5,000	< 5	< 2	34,900	< 2	< 10	63.5	527
	02/15/99	< 100	< 5	< 5	21.8	< 4	< 2	34,300	< 10	< 10	13.3	NA	260	< 3	63,000	941	NA	NA	< 20	< 5,000	< 5	< 2	34,000	< 4.6 (U1)	< 10	< 20	457
	11/16/98	< 100	< 5	< 5	56.4	< 4	< 2	37,700	< 10	< 10	< 10	NA	715	< 3	63,500	1,190	NA	NA	< 20	< 5,000	< 5	< 2	39,300	3.9	< 10	< 20	547
	08/14/98	< 100	< 5	< 5	90.7	< 4	< 2	38,400	< 10	< 10	10.2	NA	< 100	< 3	60,500	360	NA	NA	< 20	< 5,000	< 5	< 2	51,400	< 2	< 10	< 20	449
	04/14/98	< 100	< 5	< 5	36	< 4	< 2	38,000	< 10	< 10	17	NA	< 100	< 3	64,000	42	NA	NA	< 20	< 5,000	< 5	< 2	37,000	< 2	< 10	< 20	510
	01/13/98	< 100	< 5	< 5	20	< 4	< 2	39,000	< 10	< 10	< 10	NA	< 100	< 3	61,000	160	NA	NA	< 20	< 5,000	< 5	< 2	36,000	< 2	< 10	< 20	480
	11/10/97	< 100	< 5	< 5	20	< 4	< 2	36,000	< 10	< 10	< 10	NA	300	< 3	60,000	910	NA	NA	< 20	< 5,000	< 5	< 2	35,000	< 2	< 10	< 20	420
	08/11/97	< 100	< 5	< 5	40	< 4	< 2	40,000	< 10	< 10	< 10	NA	< 100	< 3	62,000	< 10	NA	NA	< 20	< 5,000	6	< 2	44,000	< 2	< 10	< 20	500
	05/13/97	< 100	< 5	< 5	20	< 4	< 2	40,000	< 10	< 10	< 10	NA	< 100	< 3	60,000	110	NA	NA	< 20	< 5,000	5	< 2	35,000	< 2	< 10	< 20	460
	02/12/97	< 100	< 5	< 5	30	< 4	< 2	40,000	< 10	< 10	< 10	NA	< 100	< 3	63,000	270	NA	NA	< 20	< 5,000	< 5	< 2	38,000	< 2	< 10	< 20	430 (J29)
	12/06/96	< 100	< 5	< 5	20	< 4	< 2	45,000	< 10	< 10	< 10	NA	< 100	< 3	63,000	260	< 0.2	NA	< 20	< 5,000	7	< 2	38,000	< 2	< 10	< 20	NA
	08/28/96	< 100	< 5	< 5	20	< 2	< 0.5	47,000	< 1	< 10	< 1	NA	< 100	2	63,000	70	< 0.2	NA	< 5	< 5,000	7	< 0.5	37,000	< 2	< 10	< 20	NA
	05/30/96	< 100	< 5	< 5	30	< 2	< 0.5	45,000	< 1	< 10	1	NA	< 100	1	62,000	210	< 0.2	NA	6	< 5,000	< 5	< 0.5	45,000	< 2	< 10	20	NA
	03/06/96	< 100 U	< 5 U	< 5 U	71	< 2 U	< 0.5 U	50,000	1	< 10 U	< 1 U	NA	< 100 U	1	68,100	43	< 0.2 U	NA	< 5 U	< 5,000 U	< 5 U	< 0.5 U	60,000	< 2 U	< 10 U	< 20 U	NA
	12/11/95	< 100	< 5	< 5	19	< 2	< 0.5	47,700	2	< 10	< 1	NA	< 100	2	70,900	614	< 0.2	NA	< 5	< 5,000	< 5	< 0.5	48,000	< 2	< 10	< 20	NA
	09/12/95	< 200 U	< 60 U	< 5 U	24	< 2 U	< 2 U	41,000	< 10 U	< 20 U	< 10 U	NA	< 100 U	< 3 U	63,000	110	< 0.2 U	< 20	< 20 U	2,000	< 5 U	< 5 U	41,000	< 5 U	< 10 U	< 20 U	NA
DAEGW07	03/15/06	< 100	< 1	< 5	94	< 2	< 1	28,000	< 10	< 10	1.5	NA	180	< 3	19,000	54	NA	NA	< 20	1,200	< 5	< 1	22,000	< 1	< 10	< 20	300 J
	03/18/05	< 100	< 1	< 5	89	< 2	< 1	32,000	< 10	< 10	< 1	NA	260	< 3	22,000	30	NA	NA	< 20	650	< 5	< 1	18,000	< 1	< 10	< 20	330 J-
	03/17/04	< 100	< 1	< 5	75	< 2	< 1	36,000	< 10	< 10	< 1	NA	130	< 3	28,000	40	NA	NA	< 20	< 500	< 5	< 1 UJ	23,000	< 1	< 10	< 20	300
DUP0317041A	03/17/04	< 100	< 1	< 5	73	< 2	< 1	35,000	< 10	< 10	1	NA	< 100	< 3	27,000	18	NA	NA	< 20	< 500	< 5	< 1 UJ	22,000	< 1	< 10	< 20	310
	03/19/03	< 100 UJ	< 1	< 1	57	< 1	< 1	42,000 J	< 1 UJ	< 1	< 1	NA	< 100	< 3	41,000 J	< 10 UJ	NA	NA	11	< 500	< 5	< 1 UJ	19,000 J	< 1	< 10	< 10	280
	03/11/02	< 100	1.1	< 1	480	< 1	< 1	45,000	< 1	< 1	1.1	NA	100	< 3	35,000	< 10	NA	NA	12	670	< 5	< 1 UJ	25,000	< 1	< 10	120	280
	05/18/99	< 100	< 5	< 5	66.1	< 4	< 2	38,200	< 10	< 10	< 10	NA	< 100	9.5	33,300	10.1	NA	NA	< 20	< 5,000	< 5	< 2	24,300	< 2	< 10	< 20	493
	03/15/99	< 100	< 5	< 5	96.9	< 4	< 2	35,600	< 10	< 10	< 10	NA	< 100	171	28,000	30.4	NA	NA	< 20	< 5,000	< 5	< 2	23,500	< 2	< 10	43.7	266
	04/15/98	< 100	< 5	< 5	100	< 4	< 2	35,000	< 10	< 10	12	NA	< 100	< 3	27,000	120	NA	NA	< 20	< 5,000	< 5	< 2	22,000	< 2	< 10	< 20	260
	01/14/98	200	< 5	< 5	80	< 4	< 2	26,000	< 10	< 10	< 10	NA	< 100	< 3	23,000	< 10	NA	NA	< 20	< 5,000	< 5	< 2	21,000	< 2	< 10	< 20	280
	12/12/97	100	< 5	< 5	70	< 4	< 2	27,000	< 10	< 10	< 10	NA	< 100	< 3	20,000	< 10	NA	NA	< 20	< 5,000	< 5	< 2	21,000	< 2	< 10	< 20	250
	02/13/97	< 100	< 5	< 5	100	< 4	< 2	37,000	< 10	< 10	< 10	NA	100	< 3	31,000	140	NA	NA	< 20	< 5,000	< 5	< 2	22,000	< 2	< 10	< 20	260
	03/07/96	< 100 U	< 5 U	< 5 U	93	< 2 U	< 0.5 U	37,300	1	< 10 U	< 1 U	NA	610	< 1 U	34,000	245	< 0.2 U	NA	21	< 5,000 U	< 5 U	< 0.5 U	21,000	< 2 U	< 10 U	< 20 U	ND
	12/14/95	< 100	< 5	< 5	59	< 2	< 0.5	33,800	< 1	< 10	< 1	NA	< 100	< 1	30,900	< 10	< 0.2	NA	12	< 5,000	< 5	< 0.5	32,000	< 2	< 10	< 20	ND
DAEGW08	03/14/06	< 100	< 1	< 5	100	< 2	< 1	96,000	< 10	< 10	2.2	NA	160	< 3	180,000	750	NA	NA	87	< 500	< 5	< 1	120,000	< 1	< 10	< 20	1,280
	03/28/05	< 100	< 1	< 5	130	< 2	< 1	90,000	< 10	< 10	1.7	NA	220	< 3	160,000	540	NA	NA	91	< 500	< 5	< 1	100,000	< 1	< 10	< 20	1110
	03/17/04	< 100	< 1	< 5	130	< 2	< 1	99,000	< 10	< 10	1.2	NA	220	< 3	170,000	550	NA	NA	88	< 500	< 5	< 1 UJ	110,000	< 1	< 10	< 20	1,160
	08/18/03	< 100	< 1	< 5	98	< 2	< 1	70,000	< 10	< 10	< 1	NA	410	< 3	140,000	510	NA	< 5	79	< 500	< 5	< 1 UJ	85,000	< 1	< 10	< 20 UJ	920
	03/19/03	< 100 UJ	< 1	< 1	110	< 1	< 1	100,000 J	6.2 J	< 1	1.7	NA	250	< 3	190,000 J	490 J	NA	NA	81	< 500	< 5	< 1 UJ	120,000 J	< 1	< 10	< 10	1,000
	12/05/02	< 100	< 1	< 1	56	< 1	< 1	41,000	12	< 1	< 1	NA	120	< 3	73,000	120	NA	NA	39	< 500	< 5	< 1 UJ	60,000	< 1	< 10	< 10	580
	09/04/02	< 100	< 1	< 1	410	< 1	< 1	66,000	3.1 J	< 1	1.4	NA	< 100	< 3	130,000	430	NA	NA	78	< 500	< 5	< 1 UJ	88,000	< 1	< 10	77	860
	06/04/02	< 100	< 1	< 1	350	< 1	< 1	81,000	8.6	< 1	1.7	NA	300	< 3	170,000	550	NA	NA	93	< 500	< 5	< 1	110,000	< 1	< 10	43	1,020
	03/11/02	< 100	< 1	< 1	420	< 1	< 1	75,000	1.4	< 1	1	NA	200	< 3	180,000	410	NA	NA	80	< 500	< 5	< 1 UJ	120,000	< 1	< 10	41	1,150

Table A-7-4
Results of Dissolved Metals Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
DAEGW08	11/30/01	< 100	< 1	< 1	360	< 1	< 1	44,000	13	< 1	1.3	NA	1,100	< 3	78,000	32	NA	NA	22	580	< 5	< 1 UJ	60,000	< 1	< 10	120	690
	08/29/01	160	1.3	< 1	290 J+	< 1	< 1	51,000	8.8	< 1	2.8	NA	360	< 3	100,000	180	NA	NA	53	< 500	< 5	< 1 UJ	80,000	< 1	< 10	74	750
	05/16/01	< 100	1.2	< 1	120	< 1	< 1	< 500 R	6.3 J	< 1	1.5	NA	470	< 3	120,000	210	NA	NA	65	< 500	< 5	< 1	91,000	< 1	< 10	< 10	950
	05/18/99	< 100	< 5	< 5	105	< 4	< 2	50,500	< 10	< 10	< 10	NA	< 100	< 3	100,000	285	NA	NA	81.7	< 5,000	< 5	< 2	72,100	< 2	< 10	44.4	667
	02/16/99	< 100	< 5	< 5	68.8	< 4	< 2	48,500	< 10	< 10	21.1	NA	< 100	< 3	95,900	< 10	NA	NA	20.6	< 5,000	< 5	< 2	76,100	< 2	< 10	34.3	801
	11/17/98	< 100	< 5	< 5	78.9	< 4	< 2	45,200	< 10	< 10	< 10	NA	< 100	< 3	87,800	10	NA	NA	< 20	< 5,000	< 5	< 2	59,200	< 2	< 10	< 20	643
	08/17/98	< 100	< 5	< 5	93.3	< 4	< 2	45,300	< 10	< 10	12.1	NA	< 100	< 3	85,800	70	NA	NA	56.9	< 5,000	< 5	< 2	57,700	< 2	< 10	< 20	617
	04/15/98	< 100	< 5	< 5	90	< 4	< 2	41,000	< 10	< 10	12	NA	< 100	< 3	80,000	71	NA	NA	43	< 5,000	< 5	< 2	64,000	< 2	< 10	< 20	590
	01/14/98	< 100	< 5	< 5	60	< 4	< 2	40,000	< 10	< 10	< 10	NA	< 100	< 3	78,000	< 10	NA	NA	< 20	< 5,000	6	< 2	75,000	< 2	< 10	< 20	660
	11/11/97	< 100	< 5	< 5	50	< 4	< 2	38,000	< 10	< 10	< 10	NA	< 100	< 3	73,000	10	NA	NA	< 20	< 5,000	5	< 2	69,000	< 2	< 10	< 20	640
	08/12/97	< 100	< 7	< 5	70	< 4	< 2	42,000	< 10	< 10	< 10	NA	< 100	< 3	89,000	< 10	NA	NA	< 20	< 5,000	12	< 2	78,000	< 2	< 10	< 20	710
	05/14/97	< 100	< 10	< 5	90	< 4	< 2	54,000	< 10	< 10	< 10	NA	< 100	< 3	110,000	80	NA	NA	50	< 5,000	16	< 2	83,000	< 2	< 10	< 20	830
	02/13/97	< 100	< 5	< 5	80	< 4	< 2	51,000	< 10	< 10	< 10	NA	< 100	< 3	110,000	50	NA	NA	50	< 5,000	7	< 2	76,000	< 2	< 10	< 20	850
	12/06/96	< 100	< 5	6	70	< 4	< 2	48,000	< 10	< 10	< 10	NA	< 100	3	97,000	< 10	< 0.2	NA	< 20	< 5,000	18	< 2	90,000	< 2	< 10	< 20	NA
	08/29/96	< 100	< 5	< 5	80	< 2	< 0.5	55,000	4	< 10	1	NA	< 100	2	110,000	60	< 0.2	NA	35	< 5,000	20	< 0.5	84,000	< 2	< 10	< 20	NA
	06/10/96	< 100	< 5	< 5	80	< 2	< 0.5	68,000	1	< 10	< 1	NA	< 100	< 1	130,000	50	< 0.2	NA	35	< 5,000	9	< 0.5	120,000	< 2	< 10	< 20	NA
	03/07/96	< 100 U	< 5 U	< 5 U	110	< 2 U	< 0.5 U	89,700	2	< 10 U	< 1 U	NA	< 100 U	< 1 U	187,000	30	< 0.2 U	NA	38	< 5,000 U	< 5 U	< 0.5 U	137,000	< 2 U	< 10 U	< 20 U	NA
	12/14/95	< 100	< 5	< 5	64	< 2	< 0.5	54,100	9	< 10	< 1	NA	< 100	< 1	109,000	36	< 0.2	NA	26	< 5,000	< 5	< 0.5	93,000	< 2	< 10	35	NA
	09/12/95	< 200 U	< 60 U	< 5 U	66	< 2 U	< 2 U	60,000	< 10 U	< 20 U	< 10 U	NA	< 100 U	< 3 U	130,000	24	< 0.2 U	< 20	28	< 500 U	10	< 5 U	97,000	< 5 U	< 10 U	75	NA
DAESP03	03/08/06	130	< 1	< 5	35	< 2	< 1	9,600	< 10	< 10	6.8	NA	450	< 3	17,000	23	< 0.2	NA	54	1,600	< 5	< 1	24,000	< 1	< 10	< 20	400
(Total)	03/08/06	6,500	< 1	< 5	85	< 2	< 1	12,000	70	< 10	17	NA	9,800	16	23,000	130	NA	NA	140	2,300	< 5	< 1	26,000	< 1	19	63	NA
DUP0308063A	03/08/06	100	< 1	< 5	35	< 2	< 1	9,400	< 10	< 10	6.9	NA	500	< 3	16,000	26	< 0.2	NA	53	1,500	< 5	< 1	20,000	< 1	< 10	22	350
(Total)	03/08/06	5,400	< 1	< 5	77	< 2	< 1	11,000	52	< 10	15	NA	8,300	15	19,000	110	NA	NA	120	1,900	< 5	< 1	28,000	< 1	15	74	NA
DAESP03CL	03/08/06	140	< 2 U	< 2 U	46	< 1 U	< 1 U	12,000	< 10 U	< 1 U	6.6	NA	430 J+	2.2	22,000	30	< 0.2 U UJ	< 20 U	51	< 5,000 U	< 2 U	< 1 U	26,000	< 1 U	< 10 U	< 20 U	326
(Total)	03/08/06	6,400	< 2 U	< 2 U	84	< 1 U	< 1 U	12,000	72	2.7	12	NA	9,700 J+	14	23,000	110	< 0.2 U	NA	98	< 5,000 U	< 2 U	< 1 U	26,000	< 1 U	23	51	NA
	03/22/05	< 100	< 1	< 5	33	< 2	< 1	8,100	< 10	< 10	7.3	NA	350	< 3	15,000	19	< 0.2	< 5	47	2,100	< 5	< 1	17,000	< 1	< 10	< 20	330
(Total)	03/22/05	11,000	< 1	< 5	86	< 2	< 1	9,200	94	< 10	19	NA	13,000	14	18,000	150	< 0.2	NA	150	2,900	< 5	< 1	17,000	< 1	25	47	NA
DAESP03 [2]	12/28/01	< 1,000	< 1	< 1	34	< 1	< 1	7,600	15	< 1	18	NA	1,100	3.4	14,000	18	< 0.2 R	NA	67	< 5,000	< 5	< 1	17,000	2.8	< 10	35	NA
DUP112801 [3]	12/28/01	< 1,000	< 1	< 1	32	< 1	< 1	7,300	13	< 1	24	NA	900	3.2	12,000	17	< 0.2	NA	70	4,500	< 5	< 1	15,000	< 1	< 10	56	NA
	01/23/98	<100	< 5	< 5	147	< 4	< 2	80,700	< 10	< 10	21.1	NA	< 100	8.9	20,100	< 10	< 0.2	NA	< 20	< 5,000	< 5	< 2	20,000	< 2	< 10	287	NA
	02/24/98	2,940	< 5	< 5	60.6	< 4	< 2	10,400	29.1	< 10	10.1	NA	3,900	7.2	18,800	< 10	< 0.2	NA	72.9	< 5,000	< 5	< 2	23,000	< 2	10.2	51.8	NA
	02/17/99	120	< 5	< 5	52.9	< 4	< 2	17,200	< 10	< 10	22.5	NA	344	3.9	18,200	<10	NA	NA	59.3	< 5,000	< 5	< 2	21,200	< 2	< 10	76.3	NA
DAEGW101	03/16/06	< 100	< 1	< 5	46	< 2	< 1	180,000	< 10	< 10	1	NA	< 100	< 3	79,000 J	310	< 0.2	< 5	< 20	30,000 J-	< 5	< 1	51,000	1.1	< 10	< 20	650 J
	05/26/05	< 100	< 1	< 5	64	< 2	< 1	170,000	< 10	< 10	1.2	NA	320	< 3	86,000 J	270	< 0.2	< 5	32	30,000	< 5	< 1	57,000 J	< 1	< 10	< 20	730
	03/16/05	< 100	< 1	< 5	40	< 2	< 1	180,000	< 10	< 10	1.4	NA	370	< 3	86,000	56	< 0.2	< 5	< 20	30,000	< 5	< 1	59,000	< 1	< 10	< 20	1,040
	08/12/04	< 100	< 1	< 5	38	< 2	< 1	180,000	< 10	< 10	< 1 U	NA	350	< 3	88,000	170	< 0.2	< 5	< 20	30,000	< 5	< 1	67,000	< 1	< 10	< 20	NA
	05/27/04	< 100	< 1	< 5	28	< 2	< 1	170,000	< 10	< 10	2.2	NA	470	< 3	90,000	90	< 0.2	< 5	< 20	32,000	< 5	< 1	69,000	< 1	< 10	< 20	900
	03/11/04	< 100	< 1	< 5	32	< 2	< 1	180,000	< 10	< 10	1.4	NA	570	< 3	85,000	64	< 0.2	< 5	< 20	31,000	< 5	< 1 UJ	69,000	< 1	< 10	< 20	890
	08/20/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,160
	06/05/03	< 100	2	< 5	19	< 2	< 1	170,000	< 10	< 10	1.5	NA	360	< 3	96,000	420	< 0.2	< 5	< 20	26,000	< 5	< 1 UJ	110,000	< 1	< 10	< 20	1,040
	03/13/03	< 100	2.1	3.4	18	< 1	< 1	160,000	3.3	1	1	< 10	470 J	< 3	85,000	460	< 0.2	< 20	9.9	28,000	< 5	< 1 UJ	97,000	< 1	< 10	< 10	950
DAEGW102	03/16/06	< 100	< 1	< 5	250	< 2	< 1	160,000	< 10	< 10	< 1	NA	< 100	< 3	210,000 J	< 10	< 0.2	< 5	< 20	2,100 J-	< 5	< 1	120,000	< 1	< 10	< 20	1,270 J
	05/26/05	< 100	< 1	< 5	260	< 2	< 1	180,000	< 10	< 10	1.9	NA	370	< 3	270,000 J	< 10	< 0.2	< 5	< 20	2,700	< 5	< 1	140,000 J	< 1	< 10	< 20	1,610
	03/17/05	< 100	< 1	< 5	290	< 2	< 1	210,000	< 10	< 10	1.9	NA	450	< 3	310,000	< 10	< 0.2	< 5	< 20	3,000	< 5	< 1	170,000	< 1	< 10	< 20	2,200
	12/15/04	< 100	< 1	< 5	150	< 2	< 1	38,000 J	< 10	< 10	1.7	NA	420	< 3	49,000	< 10	< 0.2	< 5	< 20	3,000	< 5	< 1	110,000	1.1 J-	< 10	40	2,160
	08/12/04	< 100	< 1	< 5	360	< 2	< 1	230,000	< 10	< 10	< 1 U	NA	470	< 3	300,000	< 10	< 0.2	< 5	< 20	3,400	< 5	< 1	150,000	< 1	< 10	< 20	2,020
	05/27/04	< 100	< 1	< 5	340	< 2	< 1	220,000	< 10	< 10	1.3	NA	560	< 3	330,000	< 10	< 0.2	< 5	< 20	3,600	< 5	< 1	170,000	< 1	< 10	< 20	2,110

Table A-7-4
Results of Dissolved Metals Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
DAEGW102	03/15/04	< 100	< 1	5.2	290	< 2	< 1	180,000	< 10	< 10	1.3	NA	380	< 3	240,000	< 10	< 0.2	< 5	< 20	3,700	< 5	< 1	130,000	< 1	< 10	< 20	2,120
	12/04/03	< 100	< 1	< 5	240	< 2	< 1	150,000	< 10	< 10	1.5	NA	720	< 3	270,000	48	< 0.2	< 5	< 20	3,500	< 5	< 1	140,000	< 1	< 10	< 20	1,820
	08/19/03	< 100	1.4	< 5	220	< 2	< 1	210,000	< 10	< 10	< 1	NA	1,300	< 3	300,000	130	< 0.2	< 5	< 20	3,800	5.8	< 1 UJ	160,000	< 1	< 10	< 20 UJ	2,240
	06/04/03	< 100	1.3	< 5	180	< 2	< 1	200,000	< 10	< 10	1.8	NA	390	< 3	300,000	320	< 0.2	< 5	< 20	5,200	< 5	< 1 UJ	190,000	< 1	< 10	< 20	2,170
	03/12/03	< 100	2.3	3.1	120	< 1	< 1	210,000	3.2	1.2	4.5	< 10	540 J	< 3	260,000	510	< 0.2	< 20	3.5	7,000	< 5	< 1 UJ	210,000	< 1	< 10	< 10	2,080
DAEGW103	03/14/06	< 100	< 1	< 5	100	< 2	< 1	39,000	< 10	< 10	14	NA	240	3.8	28,000	< 10	< 0.2	< 5	20	1,600	< 5	< 1	60,000	< 1	< 10	26	610
	05/26/05	< 100	< 1	< 5	150	< 2	< 1	39,000	15	< 10	< 1	NA	< 100	< 3	41,000 J	< 10	< 0.2	< 5	< 20	670	< 5	< 1	89,000 J	< 1	< 10	< 20	420
	03/17/05	< 100	< 1	< 5	150	< 2	< 1	39,000 J	13	< 10	< 1	NA	120	< 3	41,000	< 10	< 0.2	< 5	< 20	780	< 5	< 1	88,000	< 1	< 10	< 20	580 J-
DAEGW103CL	03/17/05	< 100 U	< 2 U	< 2 U	168	< 1 U	< 1 U	44,600	17.1	< 1 U	< 2 U	NA	< 100 U	< 1 U	49,900	< 10 U	< 0.2 U	< 20 U	2.01	< 5,000 UN	< 2 U	< 1 U	109,000 J	< 1 U	< 10 U	< 20 U	612
DUP0317053A	03/17/05	< 100	< 1	< 5	150	< 2	< 1	41,000 J	13	< 10	1.7	NA	120	< 3	41,000	< 10	< 0.2	< 5	< 20	770	< 5	< 1	89,000	< 1	< 10	< 20	640 J-
	12/15/04	< 100	< 1	< 5	160	< 2	< 1	37,000 J	16	< 10	< 1	NA	< 100	< 3	110,000	< 10	< 0.2	< 5	< 20	720	< 5	< 1	66,000	< 1 UJ	< 10	< 20	620
DUP1215042A	12/15/04	< 100	< 1	< 5	160	< 2	< 1	39,000 J	16	< 10	< 1	NA	110	< 3	50,000	< 10	< 0.2	< 5	< 20	730	< 5	< 1	110,000	< 1 UJ	< 10	< 20	650
DAEGW103CL	12/15/04	< 100 U	< 2 U	< 2 U	172	< 1 U	< 1 U	44,100	18.1	< 1 U	< 2 U	NA	< 100 U	< 1 U	50,600	< 10 U	< 0.2 U	< 20 U	< 2 U	< 5,000 U	< 2 U	< 1 U	106,000	< 1 U	< 10 U	< 20 U	624
	08/11/04	< 100	< 1	< 5	170 J	< 2	< 1	44,000	17	< 10	2.7	NA	< 100	< 3	46,000	< 10	< 0.2	< 5	< 20	750	< 5	< 1	99,000	< 1	< 10	< 20	590
DUP0811042B	08/11/04	< 100	< 1	< 5	160 J	< 2	< 1	42,000	16	< 10	< 1	NA	< 100	< 3	44,000	< 10	< 0.2	< 5	< 20	680	< 5	< 1	97,000	< 1	< 10	< 20	610
DAEGW103CL [4]	08/11/04	< 11	< 10	< 40	120	< 10	< 10	1,400	17	< 10	< 10	NA	< 10	< 50	39,000	0.12 J	< 5	51	< 30	1,000	< 20	9 J	3,900	< 50	7.9 J	< 30	694
	05/28/04	< 100	< 1	< 5	160	< 2	< 1	44,000	17	< 10	< 1	NA	< 100	< 3	51,000	< 10	< 0.2	< 5	< 20	690	< 5	< 1	110,000	< 1	< 10	< 20	590
DUP0528041A	05/28/04	< 100	< 1	< 5	160	< 2	< 1	45,000	16	< 10	< 1	NA	< 100	< 3	50,000	< 10	< 0.2	< 5	< 20	650	< 5	< 1	110,000	< 1	< 10	< 20	590
DAEGW103CL	05/28/04	< 50	< 5	6	170	< 1	< 1	45,000	16	< 7	< 10	NA	850	< 3	50,000	< 5	< 0.2	< 20	< 10	NA	NA	NA	NA	NA	NA	NA	560
	03/10/04	< 100	< 1	< 5	170	< 2	< 1	44,000	15	< 10	< 1	NA	110	< 3	47,000	< 10	< 0.2	< 5	< 20	830	< 5	< 1 UJ	100,000	< 1	< 10	< 20	620
DUP0310043B	03/10/04	< 100	< 1	< 5	160	< 2	< 1	44,000	15	< 10	< 1	NA	110	< 3	47,000	< 10	< 0.2	< 5	< 20	830	< 5	< 1 UJ	100,000	< 1	< 10	< 20	620
DAEGW103CL	03/10/04	< 100	< 5	< 5	150	< 1	< 1	44,000	14	< 7	< 10	NA	< 500	< 3	47,000	< 5	< 0.2	< 20	< 10	< 1,000	< 5	< 1	100,000	< 2	< 10	< 20	620 QB01
	12/04/03	< 100	< 1	< 5	170	< 2	< 1	37,000	17	< 10	< 1	NA	140	< 3	49,000	< 10	< 0.2	< 5	< 20	730	< 5	< 1	100,000	< 1	< 10	< 20	600
DUP1204033A	12/04/03	< 100	2.1	< 5	160	< 2	< 1	37,000	17	< 10	< 1	NA	140	< 3	49,000	< 10	< 0.2	< 5	< 20	710	< 5	< 1	100,000	< 1	< 10	< 20	610
DAEGW103CL	12/04/03	< 1000	< 5	6.3	160	< 1	< 1	43,000	18	< 7	< 10	NA	< 500	< 3	46,000	< 5	< 0.2	< 20	< 10	< 1,200	< 5	< 1	110,000	< 2	< 10	< 20	610
	08/19/03	< 100	< 1	< 5	160	< 2	< 1	40,000	17	< 10	2.8	NA	210	< 3	48,000	< 10	< 0.2	< 5	< 20	620	< 5	< 1 UJ	99,000	< 1	< 10	< 20 UJ	640
DUP0819033B	08/19/03	< 100	< 1	< 5	160	< 2	< 1	41,000	17	< 10	< 1	NA	210	< 3	48,000	< 10	< 0.2	< 5	< 20	630	< 5	< 1 UJ	99,000	< 1	< 10	< 20 UJ	610
DAEGW103CL	08/19/03	< 100	< 5	< 5	160	< 1	< 1	42,000	18	< 7	< 10	NA	< 500 UJ	< 3	48,000	< 5	< 0.2	< 20	< 10	< 1,000	< 5	< 1	110,000	< 2	< 10	< 20	520
	06/04/03	< 100	< 1	< 5	150	< 2	< 1	43,000	17	< 10	< 1	NA	< 100	< 3	48,000	< 10	< 0.2	< 5	< 20	810	< 5	< 1 UJ	100,000	< 1	< 10	< 20	410
DUP0604033A	06/04/03	< 100	1.4	< 5	150	< 2	< 1	42,000	17	< 10	< 1	NA	< 100	< 3	48,000	< 10	< 0.2	< 5	< 20	800	< 5	< 1 UJ	100,000	< 1	< 10	< 20	510
DAEGW103CL	06/04/03	< 100	< 5	2.4	160	< 1	< 1	43,000	15	< 1	< 5	NA	< 500	< 3	47,000	< 5	< 0.2	< 20	< 5	< 1,000	< 5	< 1	110,000	< 2	< 10	< 20	640
	03/13/03	< 100	< 1	< 1	140	< 1	< 1	38,000	17	< 1	< 1	10	110 J	< 3	46,000	< 10	< 0.2	< 20	3.9	730	< 5	< 1 UJ	99,000	< 1	< 10	< 10	670
DUP0313033A	03/13/03	< 100	< 1	< 1	150	< 1	< 1	41,000	17	< 1	< 1	10	< 100 UJ	< 3	48,000	< 10	< 0.2	< 20	2.2	760	< 5	< 1 UJ	100,000	< 1	< 10	< 10	620
DAEGW103CL	03/13/03	< 100	< 5	4.4	150	< 1	< 1	42,000	23	< 1	< 5	15	< 500	< 3	47,000	< 5	< 0.2	< 20	< 5	1,000	< 5	< 1	140,000	< 2	< 10	17	580
	11/25/02	NA	< 5	< 5	150	< 5	4.2	46,000	79	25	25	< 10	42,000	6.7	53,000	920 J-	< 0.2	< 5	110	2,900	< 5	< 5	100,000	< 5	47	61	830 J-
DAEGW104	03/16/06	< 100	< 1	< 5	38	< 2	< 1	37,000	< 10	< 10	< 1	NA	< 100	< 3	41,000 J	43	< 0.2	< 5	< 20	960 J-	< 5	< 1	34,000	< 1	< 10	< 20	660 J
	05/26/05	< 100	< 1	< 5	40	< 2	< 1	43,000	< 10	< 10	< 1	NA	< 100	< 3	45,000 J	< 10	< 0.2	< 5	< 20	1,900	< 5	< 1	47,000 J	< 1	< 10	< 20	330
DUP0526052A	05/26/05	< 100	< 1	< 5	40	< 2	< 1	50,000	< 10	< 10	< 1	NA	< 100	< 3	52,000 J	< 10	< 0.2	< 5	< 20	1,900	< 5	< 1	54,000 J	< 1	< 10	< 20	340
DAEGW104CL	05/26/05	< 100 U	< 2 U	< 2 U	40.7	< 20 U	< 1 U	44,900	< 10 U	< 1 U	< 2 U	NA	< 100 U	< 1 U	52,700	< 10 U	< 0.2 U	< 20 U	< 2 U	< 5,000 U	< 2 U	< 1 U	54,300	< 1 U	< 10 U	< 20 U	438
	03/16/05	< 100	< 1	< 5	36	< 2	< 1	39,000	< 10	< 10	< 1	NA	120	< 3	48,000	< 10	< 0.2	< 5	< 20	1,700	< 5	< 1	40,000	< 1	< 10	< 20	430
	12/15/04	< 100	< 1	< 5	38	< 2	< 1	43,000 J	< 10	< 10	< 1	NA	< 100	< 3	48,000	260	< 0.2	< 5	< 20	1,600	< 5	< 1	41,000	1.1 J-	< 10	< 20	440
	08/12/04	< 100	< 1	< 5	28	< 2	< 1	44,000	< 10	< 10	< 1	NA	< 100	< 3	49,000	190	< 0.2	< 5	< 20	1,700	< 5	< 1	42,000	< 1	< 10	< 20	380
	05/27/04	< 100	< 1	< 5	25	< 2	< 1	45,000	< 10	< 10	< 1	NA	120	< 3	50,000	120	< 0.2	< 5	< 20	1,900	< 5	< 1	43,000	< 1	< 10	< 20	440
	03/15/04	< 100	< 1	< 5	41	< 2	< 1	42,000	< 10	< 10	< 1	NA	< 100	< 3	48,000	41	< 0.2	< 5	< 20	2,000	< 5	< 1	40,000	< 1	< 10	< 20	470
	12/04/03	< 100	3.1	< 5	27	< 2	< 1	39,000	< 10	< 10	< 1	NA	140	< 3	51,000	75	< 0.2	< 5	< 20	2,000	< 5	< 1	41,000	< 1	< 10	< 20	560

Table A-7-4
Results of Dissolved Metals Analyses
Landfill E
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
DAEGW104 DUP0819033A	08/19/03	< 100	< 1	< 5	20	< 2	< 1	40,000	< 10	< 10	< 1	NA	250	< 3	46,000	48	< 0.2	< 5	< 20	1,900	< 5	< 1 UJ	38,000	< 1	< 10	< 20 UJ	400
	08/19/03	< 100	1.5	< 5	23	< 2	< 1	41,000	< 10	< 10	< 1	NA	280	< 3	47,000	330	< 0.2	< 5	< 20	1,700	< 5	< 1 UJ	38,000	< 1	< 10	< 20 UJ	430
	06/04/03	< 100	1.4	< 5	22	< 2	< 1	42,000	< 10	< 10	3.5	NA	< 100	< 3	46,000	290	< 0.2	< 5	< 20	2,400	< 5	< 1 UJ	40,000	< 1	< 10	< 20	450
	03/12/03	< 100	1.5	1.9	27	< 1	< 1	43,000	< 1	< 1	< 1	< 10	120 J	< 3	50,000	190	< 0.2	< 20	1.1	3,100	< 5	< 1 UJ	49,000	< 1	< 10	< 10	420
	11/25/02	NA	< 5	11	320	< 5	12	74,000	250	57	140	< 10	130,000	37	100,000	1,900 J-	0.37	10	350	11,000	< 5	< 5	98,000	< 5	190	280	810 J-

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - This sample was labeled LFE-GW on the chain of custody and was reported by the laboratory as LFE-GW. This sample ID (LFE-GW) has been changed within the text, tables, and database to reflect the historical name of this seep (DAESP03).
3 - This sample was labeled LFE-GWD on the chain of custody and was reported by the laboratory as LFE-GWD. In accordance with the QAPP, this sample ID (LFE-GWD) was changed to DUP112801 within the text, tables, and database.
4 - Dissolved metals were analyzed by the quality control laboratory using method E200.7 on an Inductively Coupled Plasma (ICP) instrument. The primary laboratory analyzed dissolved metals by EPA Method 6020 on an ICP/Mass Spectrometry (ICP/MS) instrument. Although variability between these two methods is not expected, the variability in the data may be a result of different analytical methods used.
µg/L - micrograms per liter
mg/L - milligrams per liter
NA - Not analyzed
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Groundwater samples collected from all site monitoring wells were field filtered and analyzed for dissolved metals.
All metal results represent dissolved metals, unless indicated as "total" in the left-hand column, for total metal results.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-7-5
Groundwater Elevation Summary
Landfill E
Presidio of San Francisco, California

Location ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
DAEGW03	05/22/06	52.58	107.48	54.90	MW
	03/06/06	55.38	107.48	52.10	MW
	11/28/05	57.25	107.48	50.23	MW
	08/29/05	56.69	107.48	50.79	MW
	05/23/05	56.71	107.48	50.77	MW
	03/14/05	58.62	107.48	48.86	MW
	12/13/04	60.66	107.48	46.82	MW
	08/09/04	59.89	107.48	47.59	MW
	05/24/04	59.22	107.48	48.26	MW
	03/08/04	59.68	107.48	47.80	MW
	12/01/03	60.50	107.48	46.98	MW
	08/11/03	59.43	107.48	48.05	MW
	06/02/03	58.68	107.48	48.80	MW
	03/10/03	58.62	107.48	48.86	MW
	12/02/02	59.56	107.48	47.92	MW
	08/26/02	58.79	107.48	48.69	MW
	05/28/02	58.14	107.48	49.34	MW
	03/04/02	58.50	107.48	48.98	MW
	11/26/01	59.84	107.48	47.64	MW
	08/27/01	58.87	107.48	48.61	MW
	05/08/01	57.96	107.48	49.52	MW
DAEGW04	05/22/06	40.90	94.38	53.48	MW
	03/06/06	43.54	94.38	50.84	MW
	11/28/05	45.52	94.38	48.86	MW
	08/29/05	44.97	94.38	49.41	MW
	05/23/05	44.99	94.38	49.39	MW
	03/14/05	46.57	94.38	47.81	MW
	12/13/04	48.76	94.38	45.62	MW
	08/09/04	48.14	94.38	46.24	MW
	05/24/04	47.46	94.38	46.92	MW
	03/08/04	47.67	94.38	46.71	MW
	12/01/03	48.74	94.38	45.64	MW
	08/11/03	47.68	94.38	46.70	MW
	06/02/03	46.95	94.38	47.43	MW
	03/10/03	46.78	94.38	47.60	MW
	12/02/02	47.81	94.38	46.57	MW
	08/26/02	47.02	94.38	47.36	MW
	05/28/02	46.42	94.38	47.96	MW
	03/04/02	46.61	94.38	47.77	MW
	11/26/01	48.05	94.38	46.33	MW
	08/27/01	47.11	94.38	47.27	MW
	05/08/01	46.21	94.38	48.17	MW
DAEGW05	05/22/06	51.12	105.65	54.53	MW
	03/06/06	54.00	105.65	51.65	MW
	11/28/05	56.00	105.65	49.65	MW
	08/29/05	55.40	105.65	50.25	MW
	05/23/05	55.30	105.65	50.35	MW
	03/14/05	57.15	105.65	48.50	MW
	12/13/04	59.50	105.65	46.15	MW
	08/09/04	58.75	105.65	46.90	MW
	05/24/04	57.95	105.65	47.70	MW
	03/08/04	58.22	105.65	47.43	MW
	12/01/03	59.25	105.65	46.40	MW
	08/11/03	58.23	105.65	47.42	MW
	06/02/03	57.50	105.65	48.15	MW
	03/10/03	57.35	105.65	48.30	MW

Table A-7-5
Groundwater Elevation Summary
Landfill E
Presidio of San Francisco, California

Location ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
DAEGW05	12/02/02	58.31	105.65	47.34	MW
	08/26/02	57.64	105.65	48.01	MW
	05/28/02	56.96	105.65	48.69	MW
	03/04/02	57.19	105.65	48.46	MW
	11/26/01	58.71	105.65	46.94	MW
	08/27/01	57.71	105.65	47.94	MW
	05/08/01	56.80	105.65	48.85	MW
DAEGW06	05/22/06	9.89	119.26	109.37	MW
	03/06/06	11.71	119.26	107.55	MW
	11/28/05	22.65	119.26	96.61	MW
	08/29/05	15.81	119.26	103.45	MW
	05/23/05	12.00	119.26	107.26	MW
	03/14/05	13.89	119.26	105.37	MW
	12/13/04	26.40	119.26	92.86	MW
	08/09/04	23.69	119.26	95.57	MW
	05/24/04	17.73	119.26	101.53	MW
	03/08/04	17.22	119.26	102.04	MW
	12/01/03	25.78	119.26	93.48	MW
	08/11/03	21.64	119.26	97.62	MW
	06/02/03	15.69	119.26	103.57	MW
	03/10/03	16.68	119.26	102.58	MW
	12/02/02	25.15	119.26	94.11	MW
	08/26/02	21.68	119.26	97.58	MW
	05/28/02	15.12	119.26	104.14	MW
	03/04/02	17.34	119.26	101.92	MW
	11/26/01	26.88	119.26	92.38	MW
	08/27/01	25.25	119.26	94.01	MW
	05/08/01	20.39	119.26	98.87	MW
DAEGW07	05/22/06	5.01	75.66	70.65	MW
	03/06/06	1.75	75.66	73.91	MW
	11/28/05	9.60	75.66	66.06	MW
	08/29/05	9.59	75.66	66.07	MW
	05/23/05	8.14	75.66	67.52	MW
	03/14/05	3.20	75.66	72.46	MW
	12/13/04	9.44	75.66	66.22	MW
	08/09/04	9.60	75.66	66.06	MW
	05/24/04	9.56	75.66	66.10	MW
	03/08/04	4.31	75.66	71.35	MW
	12/01/03	Dry	75.66	67.66	MW
	08/11/03	9.61	75.66	66.05	MW
	06/02/03	9.37	75.66	66.29	MW
	03/10/03	8.39	75.66	67.27	MW
	12/02/02	9.59	75.66	66.07	MW
	08/26/02	9.60	75.66	66.50 [2]	MW
	05/28/02	9.56	75.66	66.54 [2]	MW
	03/04/02	6.06	75.66	69.60	MW
	11/26/01	9.58	75.66	66.52 [2]	MW
	08/27/01	9.48	75.66	66.18	MW
	05/08/01	9.50	75.66	66.16	MW
DAEGW08	05/22/06	17.28	71.66	54.38	MW
	03/06/06	20.34	71.66	51.32	MW
	11/28/05	22.96	71.66	48.70	MW
	08/29/05	22.28	71.66	49.38	MW
	05/23/05	21.89	71.66	49.77	MW
	03/14/05	23.44	71.66	48.22	MW

Table A-7-5
Groundwater Elevation Summary
Landfill E
Presidio of San Francisco, California

Location ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
DAEGW08	12/13/04	26.21	71.66	45.45	MW
	08/09/04	25.51	71.66	46.15	MW
	05/24/04	24.82	71.66	46.84	MW
	03/08/04	24.78	71.66	46.88	MW
	12/01/03	26.12	71.66	45.54	MW
	08/11/03	25.08	71.66	46.58	MW
	06/02/03	24.26	71.66	47.40	MW
	03/10/03	24.06	71.66	47.60	MW
	12/02/02	25.23	71.66	46.43	MW
	08/26/02	24.41	71.66	47.25	MW
	05/28/02	23.68	71.66	47.98	MW
	03/04/02	23.81	71.66	47.85	MW
	11/26/01	25.49	71.66	46.17	MW
	08/27/01	24.51	71.66	47.15	MW
	05/08/01	23.42	71.66	48.58 [2]	MW
DAEGW101	05/22/06	35.32	107.09	71.77	MW
	03/06/06	34.42	107.09	72.67	MW
	11/28/05	44.40	107.09	62.69	MW
	08/29/05	40.60	107.09	66.49	MW
	05/23/05	36.02	107.09	71.07	MW
	03/14/05	34.80	107.09	72.29	MW
	12/13/04	Dry	107.09	65.09 [2]	MW
	08/09/04	42.56	107.09	64.53	MW
	05/24/04	36.93	107.09	70.16	MW
	03/08/04	35.78	107.09	71.31	MW
	12/01/03	Dry	107.09	65.09	MW
	08/11/03	42.35	107.09	64.74	MW
	06/02/03	39.29	107.09	67.80	MW
	03/10/03	35.51	107.09	71.58	MW
DAEGW102	05/22/06	11.09	116.72	105.63	MW
	03/06/06	17.01	116.72	99.71	MW
	11/28/05	19.62	116.72	97.10	MW
	08/29/05	19.12	116.72	97.60	MW
	05/23/05	24.72	116.72	92.00	MW
	03/14/05	17.33	116.72	99.39	MW
	12/13/04	22.17	116.72	94.55	MW
	08/09/04	20.39	116.72	96.33	MW
	05/24/04	20.02	116.72	96.70	MW
	03/08/04	19.07	116.72	97.65	MW
	12/01/03	21.37	116.72	95.35	MW
	08/11/03	19.08	116.72	97.64	MW
	06/02/03	17.38	116.72	99.34	MW
	03/10/03	18.41	116.72	98.31	MW
DAEGW103	05/22/06	29.07	111.73	82.66	MW
	03/06/06	29.43	111.73	82.30	MW
	11/28/05	29.68	111.73	82.05	MW
	08/29/05	29.89	111.73	81.84	MW
	05/23/05	30.03	111.73	81.70	MW
	03/14/05	30.10	111.73	81.63	MW
	12/13/04	30.06	111.73	81.67	MW
	08/09/04	29.88	111.73	81.85	MW
	05/24/04	29.73	111.73	82.00	MW
	03/08/04	29.64	111.73	82.09	MW
	12/01/03	29.59	111.73	82.14	MW
	08/11/03	29.42	111.73	82.31	MW
	06/02/03	29.34	111.73	82.39	MW
	03/10/03	29.27	111.73	82.46	MW

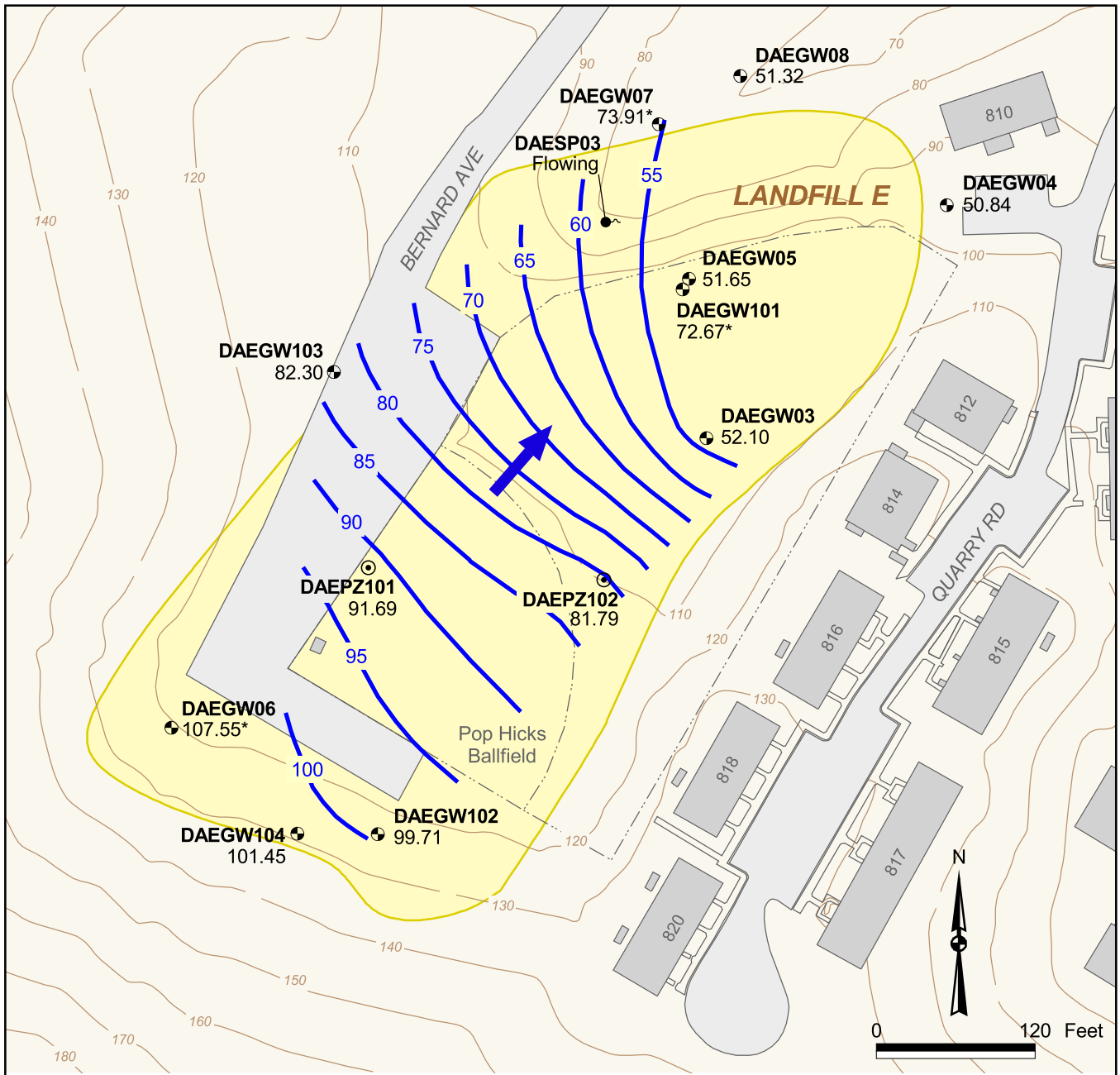
Table A-7-5
Groundwater Elevation Summary
Landfill E
Presidio of San Francisco, California

Location ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
DAEGW104	05/22/06	19.79	120.28	100.49	MW
	03/06/06	18.83	120.28	101.45	MW
	11/28/05	19.88	120.28	100.40	MW
	08/29/05	19.41	120.28	100.87	MW
	05/23/05	18.30	120.28	101.98	MW
	03/14/05	22.52	120.28	97.76	MW
	12/13/04	26.86	120.28	93.42	MW
	08/09/04	26.19	120.28	94.09	MW
	05/24/04	22.70	120.28	97.58	MW
	03/08/04	25.96	120.28	94.32	MW
	12/01/03	27.21	120.28	93.07	MW
	08/11/03	24.09	120.28	96.19	MW
	06/02/03	21.90	120.28	98.38	MW
	03/10/03	23.10	120.28	97.18	MW
DAEPZ101	05/22/06	21.67	113.83	92.16	PZ
	03/06/06	22.14	113.83	91.69	PZ
	11/28/05	26.42	113.83	87.41	PZ
	08/29/05	24.90	113.83	88.93	PZ
	05/23/05	22.84	113.83	90.99	PZ
	03/14/05	21.47	113.83	92.36	PZ
	12/13/04	27.91	113.83	85.92	PZ
	08/09/04	26.62	113.83	87.21	PZ
	05/24/04	25.43	113.83	88.40	PZ
	03/08/04	25.89	113.83	87.94	PZ
DAEPZ102	05/22/06	27.02	110.09	83.07	PZ
	12/01/03	28.30	110.09	81.79	PZ
	12/01/03	28.32	113.83	85.51	PZ
	08/11/03	27.47	113.83	86.36	PZ
	06/02/03	26.80	113.83	87.03	PZ
	03/10/03	26.27	113.83	87.56	PZ
	03/06/06	28.30	110.09	81.79	PZ
	11/28/05	28.93	110.09	81.16	PZ
	08/29/05	26.68	110.09	83.41	PZ
	05/23/05	28.31	110.09	81.78	PZ
	03/14/05	28.05	110.09	82.04	PZ
	12/13/04	29.29	110.09	80.80	PZ
	08/09/04	28.91	110.09	81.18	PZ
	05/24/04	28.61	110.09	81.48	PZ
	03/08/04	28.85	110.09	81.24	PZ
	12/01/03	29.22	110.09	80.87	PZ
	08/11/03	28.72	110.09	81.37	PZ
	06/02/03	28.58	110.09	81.51	PZ
	03/10/03	28.69	110.09	81.40	PZ
DAESP03	05/22/06	Not flowing	--	--	Surface
	03/06/06	Flowing	--	--	Surface
	11/28/05	Not flowing	--	--	Surface
	08/29/05	Not flowing	--	--	Surface
	05/23/05	Not flowing	--	--	Surface
	03/14/05	Not flowing	--	--	Surface
	12/13/04	Not flowing	--	--	Surface
	08/09/04	Not flowing	--	--	Surface

Table A-7-5
Groundwater Elevation Summary
Landfill E
Presidio of San Francisco, California

Location ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
DAESP03	05/24/04	Not flowing	--	--	Surface
	03/08/04	Not flowing	--	--	Surface
	12/01/03	Not flowing	--	--	Surface
	08/11/03	Not flowing	--	--	Surface
	06/02/03	Not flowing	--	--	Surface

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
2 - The limited amount of water observed within this well most likely represents water in the end cap not representative of the natural aquifer.
MW- Monitoring well
PZ - piezometer
feet PLLW - feet above Presidio lower low water vertical datum



LEGEND

DAEGW04 50.84 — Groundwater Monitoring Well March 2006 Groundwater Elevation

DAEPZ101 91.69 — Piezometer March 2006 Groundwater Elevation

DAESP03 — Approximate Surface Water Sample Location

* Wells DAEGW06 and DAEGW07 were not contoured, due to semi-confined and perched conditions, respectively. Whereas, well DAEGW101 was not contoured because it is screened in a shallower interval.

Approximate Direction of Groundwater Flow

Groundwater Elevation Contour (Contour Interval : 5 ft)

Topographic Contour (Contour Interval : 10 ft)

810 — Building and Number

Approximate Lateral Extent of Landfill

Notes:
Groundwater elevation data collected on 6 March 2006.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

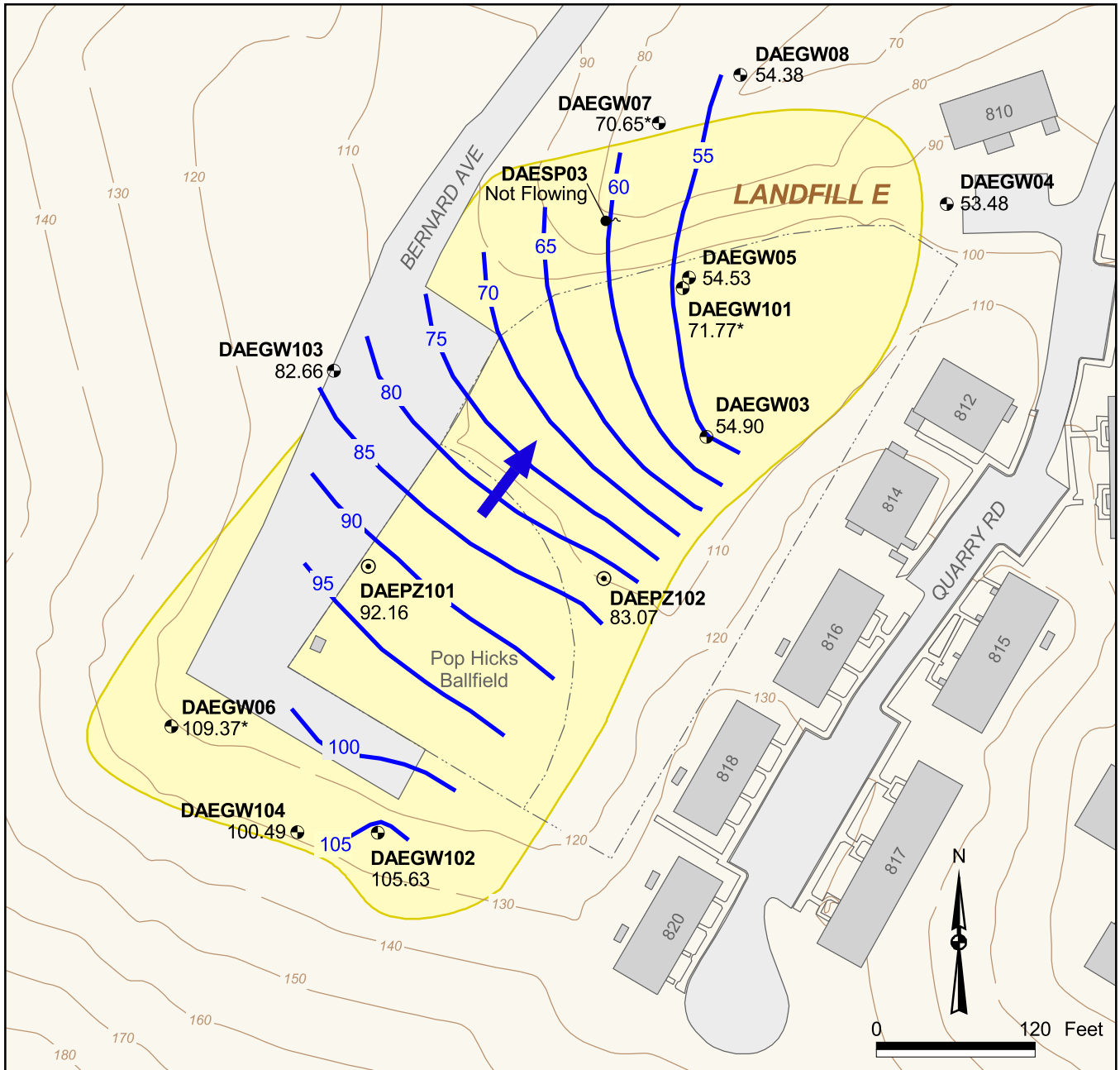
LANDFILL E SITE PLAN AND 6 MARCH 2006 GROUNDWATER ELEVATION MAP

Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 561-5315
October 2006

FIGURE A-7-1



LEGEND

DAEGW04 53.48 — Groundwater Monitoring Well, May 2006 Groundwater Elevation

DAEPZ101 92.16 — Piezometer, May 2006 Groundwater Elevation

DAESP03 — Approximate Surface Water Sample Location

* Wells DAEGW06 and DAEGW07 were not contoured, due to semi-confined and perched conditions, respectively. Whereas, well DAEGW101 was not contoured because it is screened in a shallower interval.

Approximate Direction of Groundwater Flow

Groundwater Elevation Contour (Contour Interval : 5 ft)

Topographic Contour (Contour Interval : 10 ft)

810 — Building and Number

Approximate Lateral Extent of Landfill

Notes:
Groundwater elevation data collected on 22 May 2006.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

LANDFILL E SITE PLAN AND 22 MAY 2006 GROUNDWATER ELEVATION MAP

Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 561-5315
October 2006

FIGURE A-7-2

First Quarter 2006

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: ~~[illegible]~~ Landfill E
Well No.: DAEGW03
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: B Crow
Sampled by: B Crow
Date: 3/14/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 78.22
Depth to Water (WL, ft. below TOC): 55.12
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 3" Grundfos
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) 75'
[ ] Other

PURGE VOLUME CALCULATION

23.10 (Water Column Length) x 1.68 (Water Volume/ft) x 3 (No. Vols) = 116.4 gals CALCULATED PURGE VOLUME

117 gals ACTUAL PURGE VOLUME

Total Purge Time: 25 min
Recharge Rate: 5 gpm
Purge Rate: 5 gpm

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI / Hach / Myron

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1121 / 39	6.9	15.3	–	1831	–	3.56	
1128 / 78	6.7	15.4	–	1828	–	3.07	
1137 / 117	6.7	15.8	–	1823	–	3.37	
1140 / –		16.2	1.76		–		
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments: Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/14/06 / 1140

Purging Equipment: Pump - Type: Bailer - Type: disposable Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
DAEGW03	6 x 40 mL	CT	2040	
	1 x HNO_3			filtered
	5 x 1 L Amb			
	1 x 1 L Poly			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Langley E
Well No.: DAEGW04
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: B Powell
Sampled by: B Powell
Date: 3/14/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 63.74
Depth to Water (WL, ft. below TOC): 43.18
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 2" grundfos
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) 63'
[ ] Other

PURGE VOLUME CALCULATION

20.56 (Water Column Length) x 1.68 (Water Volume/ft) x 3 (No. Vols) = 103.62 gals CALCULATED PURGE VOLUME

Total Purge Time: 21 min
Recharge Rate: 5 gpm
Purge Rate: 5 gpm

104 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron / Hach / YSI

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1446	35	6.6	16.1	–	1269	–	41.4	
1453	70	6.8	16.8	–	1263	–	14.8	
1500	104	6.7	16.7	–	1261	–	7.25	
1510				4.27		–		

Comments: Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/14/06 1510

Purging Equipment: Pump - Type: Bailer - Type: disposable Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
3 x 40mL	DAEGW04	C+T	2040	
3 x 1L Amb				
1 x 1L Poly				
1 x HNO3				Filtered

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill E
Well No.: DAEGW05
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: B Proud
Sampled by: B Proud
Date: 3/14/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 73.00

Depth to Water (WL, ft. below TOC): 53.75

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow
[X] Normal
[ ] Modified (max 5 gpm)
[X] Bailer \ Type PVC
[X] ~~Pump \ Type~~ ~~3" Grundfos~~
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

19.25 (Water Column Length) x 1.68 (Water Volume/ft) x 3 (No. Vols) = 97.0 gals — CALCULATED PURGE VOLUME

Total Purge Time: 35 min

Recharge Rate: 73.0

Purge Rate: 3 gpm

97.0 gals — ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron / Hach / YSI

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1213	/	33	6.9	15.6	–	1360	–	4.16	
1225	/	66	6.8	16.1	–	1368	–	3.98	
1237	/	97	6.8	16.2	–	1376	–	3.75	
1240	/	–			0.67		–		
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/14/06 / 1240

Purging Equipment: Pump - Type: Bailer - Type: disposable Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
DAEGW05	6 x 40 mL	CTT	2040	
	1 x HNO3			Filtered
	5 x 1 L Amb			
	1 x 1L Poly			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 1344a
Well No.: DAEGW06
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: D. Cornish
Sampled by: D. Cornish
Date: 3/16/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 41.05

Depth to Water (WL, ft. below TOC): 10.02

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.
[ ] Normal [ ] Pump \ Type:
[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: .5 gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI DO Meter

Time	/	Liters or ~~gallons~~	pH	Temp °F	DO (mg/L)	Sp. COND µS ~~mS/cm~~	ORP (mV)	Turbidity (NTU)	Comments
858	/	init.	6.95	12.7	pre 1.28	1112	–	452	cloudy
901	/	1.5	7.07	12.8	–	948.7	–	276	"
904	/	3.0	7.12	12.9	–	905.1	–	347	"
907	/	4.5	7.15	12.7	–	892.9	–	250	"
	/				post 0.74				
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other: onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/16/06 / 912

Purging Equipment: Pump - Type: Bailer - Type: Disp. Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
DAEGW06	1x1L Poly NP	CET	2050	
	1x500ml HNO_3			
	3x40ml HCl VOAs			
	3x1L Ambers NP			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: LF E
Well No.: DAEGW07
Project Number: 2093
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: John DeJong
Sampled by: John DeJong
Date: 3/15/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 9.67
Depth to Water (WL, ft. below TOC): 1.81
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type Peri
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 40'
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate
Purge Rate ~150ml/min

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI, HACH

Time	Liters or Gallons	pH	Temp °C/°F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments	DTW
1122	Started Purge								
1125	450	6.53	11.94	0.69	391	24.5	12	cloud	1.85
1128	900	6.48	11.85	0.60	390	12.5	10		1.89
1131	1350	6.47	11.82	0.56	389	8.6	10		1.91
1134	1800	6.46	11.91	0.58	390	-6.9	7		1.91
1137	2250	6.45	11.87	0.59	391	-7.3	7		1.91

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Bulk tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/15/06, 1145

Purging Equipment: Pump - Type Peri; Bailer - Type; Other

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
DAEGW07	5 NP Ambers	CAT	2044	
	1 NP poly			
	1 NaOH ZnAc			
	6 HCl vocs			
	1 HNO3			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: ~~[illegible]~~ LANDFILL E
Well No.: DAEGW08
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: B Prout
Sampled by: B Prout
Date: 3/14/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 35.39

Depth to Water (WL, ft. below TOC): 19.84

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: PVC
[ ] Normal [ ] Pump \ Type:
[ ] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[X] Near top Depth (ft): 20
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION

15.6 (Water Column Length) x 1.805 (Water Volume/ft) x 3 (No. Vols) = 84.2 gals CALCULATED PURGE VOLUME

Total Purge Time: 24 m.

Recharge Rate: 40

Purge Rate: 4 GPM

85.0 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Hach / Myron / YSI

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
955	/	28	6.1		–	1823	–	4.63	
1003	/	56	6.2	14.1	–	17.98	–	7.17	
1010	/	85	6.2	14.2	–	1802	–	9.39	
	/			14.5	0.51		–	–	
	/								
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	/								

Comments:

Purge water storage/disposal: [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/14/06 1005

Purging Equipment: Pump - Type: Bailer - Type: disposable Other:

Sample Filtered: Yes / No Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
DAEGW08	6 x 40mL	CLT	2040	
	1 x HNO3			filter
	5 x 1L Amb			
	1 x 1L Poly			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Fill site 6 | Well No.: DAEGW101

Project Number: 2093 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: P. Cornish | Date: 3/16/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 45.02

Depth to Water (WL, ft. below TOC): 33.47

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: .5gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI DO Meter

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND µS ~~mS~~/cm	ORP (mV)	Turbidity (NTU)	Comments
1012	inrt.	6.81	15.3 15.0	pre 0.47	1388	–	1	clear
1015	1.5	6.80	15.7	–	1435	–	10	"
1018	3	6.81	15.6	–	1503	–	11	"
1021	4.5	6.83	15.8	post 0.10	1554	–		"

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 3/16/06 1030

Purging Equipment: Pump - Type: Bailer - Type: Disp Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
DAEGW101	5x1L Amber NP	CET	2050	
	2x1L Poly NP			
	3x40ml VOA HCl			
	1x500ml HNO_3 Poly			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Fillsite E
Well No.: DAEGW102
Project Number: 2093
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: R. Cornish
Sampled by: R. Cornish
Date: 3/16/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 29.48
Depth to Water (WL, ft. below TOC): 15.30
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged
[ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow
[ ] Normal
[X] Modified (max 5 gpm)
[X] Bailer \ Type: Disp
[ ] Pump \ Type:
[ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:
Recharge Rate: Purge Rate:

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI DO Mate

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND mS (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1202	/	init	7.13	13.4	pre 1.29	~~2707~~ 2707	–	20	clear
1205	/	1.5	6.97	13.5	–	2752	–	19	"
1208	/	3.0	7.00	13.6	–	2824	–	26	
1212	/	4.5	7.02	13.6	–	2807	–	34	
	/				post 0.10				
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments:
Purge water storage/disposal: [ ] Drummed onsite [X] Other on site tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/16/06 / 1220

Purging Equipment: Pump - Type: Bailer - Type: Disp Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
DAEGW102	5 x 1L Amber NP	C&T	2050	
	2 x 1L Poly NP			
	6 x 40ml HCl Vocs			
	1 x 500ml HNO_3 Poly			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill E
Well No.: DAEG-W103
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: B Prow
Sampled by: B Prow
Date: 3/14/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 34.36
Depth to Water (WL, ft. below TOC): 29.40
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Normal [ ] Modified (max 5 gpm)
[ ] Bailer \ Type: disposable
[ ] Pump \ Type:
[ ] Other:

PUMP INTAKE

[X] Near top Depth (ft): 30'
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION

5.5 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 13.4 gals CALCULATED PURGE VOLUME

Total Purge Time: 27 min
Recharge Rate: .5 gpm
Purge Rate: .5 gpm

13.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron / YSI / Hach

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1332	4.5	6.4	13.4	–	412	–	>1000	
1331	9.0	6.4	14.3	–	481	–	>1000	
1340	13.5	6.5	14.1	–	510	–	>1000	
1350				4.84		–		

Comments:
Purge water storage/disposal: [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/14/06 1350

Purging Equipment: Pump - Type: Bailer - Type: disposable Other:

Sample Filtered: Yes / No (Yes circled) Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
DAEGW103	6 X 40 mL	CLT	2040	
	1 x HNO3			
	5 x 1L Amb			
	2 x 1L Poly			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Fillsite 6 | Well No.: DAEGW104

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: B. Cornish | Sampled by: | Date: 3/16/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 37.68

Depth to Water (WL, ft. below TOC): 17.96

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Normal [X] Modified (max 5 gpm)

[X] Bailer \ Type: Disp. [ ] Pump \ Type: [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft): [ ] Near Bottom Depth (ft): [ ] Other:

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: .5gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI DO Meter

Time	/	Liters or Gallons	pH	Temp °F	DO mg/L	Sp. COND µS (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1100	/	init	7.29	13.2	pre 0.09	729.2	–	10	clear
1103	/	1.5	7.35	13.6	[illegible]	737.2	–	19	"
1106	/	3	7.29	13.6	–	747.2	–	26	"
1109	/	4.5	7.25	13.7	–	744.0	–	53	"
	/				post 0.08				
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/16/06 / 1113

Purging Equipment: Pump - Type: Bailer - Type: Disp. Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
DAEGW104	5x 1L NP Amber	CET	2050	
	2x 1L Poly NP			
	6x 40ml HCl VOA			
	1x 500ml HNO3 Poly			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill E
Well No.: DAESP03
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [X] Other Seep
Recorded By: John DeJong
Sampled by: John DeJong
Date: 3/8/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [X] Other Seep

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC):

Depth to free phase (FP, ft. below TOC):

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [X] Other Seep

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[X] Other N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI / HACH / Myron L

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
~~0000~~	—							
0959	—	7.31	11.1	8.14	272	—	88	Clear
		— Used 3 Field Filters for Metals (Diss)						
		due to Filter clogging. Some small particulate						
		seen in split sample (Diss metals) Bottle						
		— Bottles were filled 1/3 of the way with						
		each Filter						

Comments: Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/8/06 / 1000

Purging Equipment: Pump - Type Bailer - Type Disp Other

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
DAESP03	24 Voas HCl	CET	2027	MS / MSD
	8 LNP poly			
	20 NP Amber			
	8 HNO3			

QUALITY CONTROL SAMPLES 4 EA HCl

Duplicate Samples

Original Sample No.	Duplicate Sample No.
DAESP03	DUP030806-3A @ 1005
	DAESP03CL split

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Lowell E
Well No.: DAES03
Project Number: 28923
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: John DeJong
Sampled by: John DeJong
Date: 3/24/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[ ] 2-inch [ ] 4-inch [X] Other 5x4

Well Total Depth (TD, ft. below TOC) :
Depth to Water (WL, ft. below TOC) :
Depth to free phase (FP, ft. below TOC) :

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

Number of borehole volumes to be purged
[ ] 3 [X] Not Applicable [ ] Other

PURGE METHOD
[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [X] Other N/A

PUMP INTAKE
[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[X] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate Purge Rate X

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI, Hach, Myron L

Time / Liters or Gallons	pH	Temp (C) °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1005 / —	7.62	12.7	7.23	245	[illegible]	132	cloudy
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments
Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 3/24/06 / 1005

Purging Equipment Pump - Type Bailer - Type (Other) Hand/Bottle

Sample Filtered: Yes / No (circled) Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
DAES03	1 poly	CTT		

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

Second Quarter 2006

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: LF E
Well No.: DAESP03
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [X] Other Seep
Recorded By: J. DeJong
Sampled by: —
Date: 5/25/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[ ] 2-inch [ ] 4-inch [X] Other

Well Total Depth (TD, ft. below TOC) :
Depth to Water (WL, ft. below TOC) :
Depth to free phase (FP, ft. below TOC) :

Number of borehole volumes to be purged
[ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD
[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE
[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/							
1307 / Not running → No Sample							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments
Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD
Date/Time Sampled /

Purging Equipment Pump - Type Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

LANDFILL 4
APPENDIX SECTION A-8
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2006
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

Landfill 4 (LF 4) is located in the west-central portion of the Presidio (Figure 1) between Central Magazine Road and Hitchcock Street. The site elevation ranges from 285 to 325 feet above the PLLW vertical datum (Figure A-8-1).

LF 4 operated between 1946 and 1981 and was used to dispose of debris and fill material. In 1981, Landfill 4 was closed and a 3-foot-thick soil cap was placed over the debris (ANL, 1989). The landfill contained up to 14 vertical feet of debris material, reportedly consisting of a variety of different materials that potentially include chemical wastes from various Presidio facilities. Fill materials also included brick, glassware, gravel, concrete, pipes, battery caps, and plastic (Dames & Moore, 1997). Figure A-8-1 shows the site and the approximate lateral extent of the former landfill.

Two monitoring wells, LF4GW100 and LF4GW101, were installed at the LF 4 site in July and August 2000 by the Trust (Figure A-8-1) to supplement existing monitoring well LF04GW03 (EKI, 2000a). Monitoring wells LF4GW100 and LF4GW101 were completed at 22.5 and 22.8 feet bgs, respectively. Monitoring well LF4GW100 is screened within silt, silty sand, and sand units and extends 0.5 feet into weathered bedrock. Monitoring well LF4GW101 is screened within a clay layer and does not extend into the weathered bedrock. Groundwater was not encountered in either well during or after construction. Groundwater was not observed in monitoring well LF04GW03 during the construction of the other two wells. The occurrence of groundwater in monitoring wells LF04GW03, LF4GW100 and LF4GW101 is seasonal; these wells do not typically contain adequate groundwater for sampling. Additional wells have been installed as part of the recent remedial action activities discussed in Section 3.0.

Well LF04GW03 has been sampled at irregular intervals from April 1995 to May 2005, which was the last time this well contained sufficient water to sample. Groundwater samples from well LF04GW03 have been analyzed for general chemistry parameters, TPH, metals, and TDS. LF4GW100 has not contained enough water for sampling. LF4GW101 has only been sampled once, during the First Quarter 2005 and was analyzed for all LF 4 parameters. Summaries of general chemistry, dissolved oxygen, TPH, PAH, chlorinated herbicides, OCP, PCB, VOCs, and metals results for LF 4 groundwater samples are presented in Tables A-8-1 through A-8-3.

2.0 SITE DESCRIPTION AND GEOLOGY

LF 4 is located in the southwestern portion of the Marina Groundwater Basin. Groundwater beneath LF 4 has reportedly ranged from approximately 14 to greater than 45 feet bgs. Groundwater flows in a north-northeasterly direction following the general topographic trend (Figures A-8-1 and A-8-2).

As outlined in Section 3.0, following remedial excavation, five new groundwater monitoring wells were installed in the vicinity of former LF 4. Materials encountered while drilling soil borings for installation of monitoring wells LF4GW102 through LF4GW106 generally consisted of dune sand to depths ranging between 6 to 14 feet bgs over silty sand of the Colma Formation to depths between 19 to 46.5 feet bgs. All borings were terminated in Franciscan complex shales and serpentinite to depths ranging between 40 and 48.5 feet bgs. Saturated soils were encountered at approximately 31.5 feet bgs in the boring for LF4GW106 and at a depth of 42.5 feet bgs in the soil boring for LF4GW105.

Well LF4GW102 is located upgradient of the excavated area, near the southern edge of Central Magazine Road (Figure A-8-1). Well LF4GW106 is located within the excavated portion of former LF 4. Wells LF4GW103, LF4GW104, and LF4GW105 are located downgradient of the excavated portion of former LF 4. At wells LF4GW102, LF4GW103, LF4GW104, and LF4GW106, the groundwater surface is located within the Franciscan complex bedrock. At well LF4GW105, the groundwater surface is located near the bottom of the 32.5-foot thick Colma formation, four feet above the Franciscan complex contact (Treadwell & Rollo, 2003e).

3.0 REMEDIAL ACTION

The *Remedial Action Plan and Evaluation of Alternatives (RAP) for Landfill 4 and Fill Site 5* selected excavation, recycling, and offsite disposal of impacted fill material and underlying soil, along with groundwater monitoring, as the remedial alternative for LF 4. The goal of the remediation at LF 4 was to remove all contaminated material, leaving in place soil that meets the established cleanup levels (Treadwell & Rollo, 2002e).

In accordance with the California Code of Regulations, Title 27, Subchapter 3, Section 20390, a site that has undergone clean closure (where all wastes and residues, contaminated subsoil, and other contaminated materials are removed or decontaminated at closure) must be shown to comply with the water quality protection standards or the cleanup levels presented in Section 3 of the RAP for three years. Table 3-10 from the RAP summarizes groundwater cleanup levels applicable to LF 4 and is included in this section.

Between 9 January and 14 February 2003, a total of 14,623 tons (approximately 11,698 yd^3) of waste material was removed from former LF 4. The majority of the material (13,551 tons) was disposed as Class I California Hazardous Waste based on soluble lead concentrations. Soil

confirmation sample concentrations determined that the majority of site conditions after the removal action meet the goals presented in the RAP (Treadwell & Rollo, 2003e).

Additional soil sampling to complete the soil cleanup activities at LF 4 has been completed and documented in the *Draft Construction Completion Report Landfill 4 and Fill Site 5* (CCR) which was submitted for stakeholder review in the Fourth Quarter 2004 (Treadwell & Rollo, 2004e). Between 7 February and 25 April 2003, a total of 12,393 tons of waste material was removed from the former FS 5 site, with an approximate additional 40 cubic yards of Class II waste removed in September 2004. Approximately 90 percent of the fill material was disposed at Class II and Class III disposal sites and the remainder as Class I California Hazardous Waste. Soil confirmation sample concentrations or 95% UCL calculations for all compounds tested (both COC and non-COC compounds) determine that the site soil conditions meet the goals presented in the RAP and that the site is suitable for unrestricted use. Based on the remedial activities conducted, field observations, established cleanup levels, and a review and evaluation of the confirmation sampling results, LF 4 and FS 5 are recommended for construction completion. Groundwater monitoring will continue per the RAP for three years to confirm that applicable cleanup levels are not exceeded (Treadwell & Rollo, 2002e).

Between 19 February and 5 March 2003, approximately 2,970 cubic yards of imported backfill material (Letterman Colma Backfill Soil) was delivered to the site. The Letterman Colma backfill was used to buttress the northern side of Central Magazine Road and contour the slope for erosion control. The source for the LF 4 imported material was the Letterman redevelopment project Colma excavation spoils.

Following the removal action and subsequent soil import, five new monitoring wells (LF4GW102 through LF4GW106) were installed in February 2003 in the locations shown on Figure A-8-1. The new wells were added to the Presidio Quarterly Groundwater Monitoring Program beginning with the First Quarter 2003 and will be sampled quarterly for a minimum of three years, in accordance with the RAP. Monitoring wells LF04GW03, LF4GW100, and LF4GW101 will continue to be monitored for the presence of water and sampled when sufficient water is present.

Treadwell & Rollo sampled the imported Letterman Colma Backfill Soil (Colma Fill) at LF 4 for OCPs in accordance with the *Field Sampling Plan to Evaluate Possible Chlordane in Letterman Colma Backfill Soil* dated 28 February 2006. The purpose of the soil sampling was to characterize the Colma Fill at LF 4 for the occurrence of chlordane above site specific soil cleanup levels. The analytical results of this sampling are currently pending.

4.0 GROUNDWATER MONITORING

LF 4 has eight monitoring wells (LF04GW03 and LF4GW100 through LF4GW106) associated with the LF 4 groundwater monitoring program (Figure A-8-1). First and Second Quarter 2006

groundwater elevations were measured at all LF 4 monitoring wells on 6 March and 22 May 2006, respectively (Table A-8-4).

The post-remediation groundwater monitoring requirements from the RAP have been met at all Landfill 4 monitoring wells for TPH, PAHs, VOCs, OCPs, and chlorinated herbicides. These analytes were not included in the proposed sampling for the First and Second Quarter 2006. Only monitoring wells LF4GW103 and LF4GW104 were proposed for sampling during the First and Second Quarter 2006 (Tables 1A and 1B), based on recent exceedences of dissolved nickel, and PCB aroclor 1260.

4.1 Groundwater-Level Measurements and Interpretation

Groundwater elevation measurements were collected on 6 March and 22 May 2006 in all LF 4 monitoring wells during the First and Second Quarters 2006. Groundwater elevations are summarized in Table A-8-4. Water level meters were calibrated on 6 March and 22 May 2006, and the calibration logs can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C.

During the First Quarter 2006, the groundwater elevations ranged from 269.52 to 306.25 feet above PLLW in monitoring wells LF4GW105 and LF4GW102, respectively (Figure A-8-1). Although monitoring wells LF04GW03, LF4GW100, and LF4GW101 are usually dry, they contained a sufficient amount of water during the First Quarter 2006 to measure the groundwater elevations.

During the Second Quarter 2006, the groundwater elevations ranged from 275.46 to 312.38 feet above PLLW in monitoring wells LF4GW105 and LF4GW102, respectively (Figure A-8-2). Monitoring wells LF04GW03, LF4GW100, and LF4GW101 again contained a sufficient amount of water during the Second Quarter 2006 to measure the groundwater elevations.

Groundwater gradients were in a northeasterly direction and estimated to be approximately 0.10 feet per foot during both the First and Second Quarters 2006. Groundwater gradients observed during the First and Second Quarters 2006 are consistent with previous monitoring events.

4.2 Monitoring Well Purging and Sampling

During the First Quarter 2006, monitoring wells LF4GW103 and LF4GW104 were sampled on 7 March, in accordance with the proposed sampling schedule contained in Table 1A.

During the Second Quarter 2006, monitoring wells LF4GW103 and LF4GW104 were sampled on 22 May, in accordance with the proposed sampling schedule contained in Table 1B

Purge equipment, purging volumes, and sampling equipment for each monitoring well are described in the purge records located at the conclusion of this section. Purge water was stored for future disposal in a 2,800-gallon aboveground polyethylene storage tank located at the Central Magazine.

4.3 Groundwater Analytical Program

All groundwater samples collected were submitted to the project laboratory for the analyses shown in Tables 1A and 1B of the main text. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are shown in Table 5. Sample containers used at each well are described in the purge records located at the conclusion of this section.

QA/QC samples were collected as part of this program. Section 6.2 of the main text discusses the QA/QC sampling and analysis performed during the First and Second Quarters 2006.

5.0 GROUNDWATER ANALYTICAL RESULTS

Groundwater samples collected from LF 4 monitoring wells during the First Quarter 2006 were analyzed for general chemistry, TDS, PCBs, and 23 dissolved metals. The groundwater samples collected from LF 4 monitoring wells during the Second Quarter 2006 were analyzed for general chemistry, TDS, and 23 dissolved metals.

Hexavalent chromium analysis was removed from the LF 4 groundwater monitoring schedule beginning with the Second Quarter 2003. Chromium primarily exists in three valence states in nature; chromium(0), trivalent chromium, and hexavalent chromium. Hexavalent chromium is more soluble than both chromium(0) and trivalent chromium and, therefore, the majority of dissolved chromium likely consists of hexavalent chromium.

Beginning in Second Quarter 2003, seven metals (arsenic, barium, beryllium, chromium, cobalt, nickel, and zinc), which were previously analyzed by EPA Method 6020 were granted variance from the QAPP reporting limits by the stakeholders and were analyzed using EPA Method 6010. This change in analytical method has resulted in a slight increase of laboratory reporting limits for these metals.

Based on the post-remediation groundwater requirements from the RAP being met at Landfill 4 monitoring wells for TPH, PAHs, VOCs, OCPs, and chlorinated herbicides, these analytes were not included in the proposed sampling for the First and Second Quarter 2006. Only monitoring wells LF4GW103 and LF4GW104 were proposed for sampling during the First and Second Quarter 2006 (Tables 1A and 1B), based on recent exceedences of dissolved nickel, PCB aroclor 1260 and fluctuating concentrations of general chemistry parameters.

5.1 Dissolved Oxygen

Dissolved oxygen results are presented in Table A-8-1. During the First Quarter 2006, dissolved oxygen was measured at 0.4 mg/L in monitoring well LF04GW03 and 0.11 mg/L in monitoring well LF04GW04. The dissolved oxygen concentrations measured during the First Quarter 2006 are within the range of concentrations previously measured within Landfill 4 monitoring wells.

During the Second Quarter 2006, dissolved oxygen was measured 3.71 mg/L in LF04GW03 and 2.4 mg/L in monitoring well LF04GW04. The dissolved oxygen measurements in monitoring wells LF04GW03 and LF04GW04 were new high concentrations for these wells.

5.2 General Chemistry

General chemistry results are presented in Table A-8-1. General chemistry concentrations during the First and Second Quarters 2006 are generally consistent with values reported at other areas of the Presidio. However, some general chemistry concentrations are slightly above or below previous high or low concentrations within LF 4 monitoring wells. The table below summarizes new high and low general chemistry analytical results for the First and Second Quarters 2006 when compared to historical data, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the commencement date of sampling, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
General Chemistry							
LF4GW103	Alkalinity, Total	14 / 14	240	1,100	--	1,300	mg/L
	Bicarbonate	14 / 14	240	1,100	--	1,300	mg/L
	Chloride	14 / 14	140	300	--	601	mg/L
	Dissolved Oxygen	12 / 12	0.1	0.92	--	3.71	mg/L
	Nitrate	3 / 14	< 0.05	0.06	--	0.07	mg/L
	Sulfate	14 / 14	36	330	--	428	mg/L
LF4GW104	Chloride	15 / 15	230	320	--	360	mg/L
	Dissolved Oxygen	12 / 12	0.07	0.5	--	2.4	mg/L
	Sulfate	15 / 15	130	151	--	170	mg/L

General chemistry concentrations listed above are only slightly outside of the range of previously reported concentrations and are therefore not considered to be significant. General chemistry parameters at the site have remained relatively stable. The potential for increasing or decreasing general chemistry concentration trends at the site will continue to be evaluated in future monitoring events.

5.3 PCB Results

PCB results, along with RAP-specified cleanup levels, are presented in Table A-8-2. LF4GW103 and LF4GW104 groundwater samples collected during the First Quarter 2006 were analyzed for PCBs. PCBs were not detected in the samples collected during the First Quarter 2006. PCBs were not scheduled for analysis during the Second Quarter 2006. Only chlorodiphenyl (PCB aroclor 1260) has been detected once at 1 µg/L in the Third Quarter 2005 QC duplicate sample for LF4GW104. No other PCB detections have occurred in LF 4 groundwater samples.

5.4 Dissolved Metals Results

Dissolved metals results, along with RAP-specified cleanup levels, are presented in Table A-8-3.

The table below summarizes new high and low dissolved metals results for the First and Second Quarters 2006 within LF4GW103 and LF4GW104 when compared to historical data, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the commencement date of sampling, and the number of duplicate analyses performed. All detected concentrations for metals were below the established cleanup levels for groundwater.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Metals, Dissolved							
LF4GW103	Calcium	14 / 14	1,700 *	110,000	--	160,000	µg/L
	Copper	6 / 14	< 1	1.1	--	2.3	µg/L
	Magnesium	14 / 14	4,100	330,000	--	470,000	µg/L
	Manganese	14 / 14	46	170	37	--	µg/L
	Sodium	14 / 14	4,700	130,000	--	190,000	µg/L
	Total Dissolved Solids	13 / 13	370	1,900	--	2,890	mg/L
LF4GW104	Copper	4 / 15	< 1	1.1	--	1.2	µg/L
	Nickel	6 / 15	< 20	21	--	22	µg/L
	Total Dissolved Solids	14 / 14	950	1,360	--	1,800	mg/L

Qualified data in the table above is indicated with an asterisk (*).

The dissolved metals concentrations listed above were only slightly outside of the range of previously reported concentrations and/or were not considered to be significant. Dissolved metals at the site have remained relatively stable. With the exception of nickel in monitoring well LFGW103, no dissolved metal concentrations within LF 4 groundwater samples have ever exceeded RAP-specified cleanup levels.

6.0 CONCLUSIONS & RECOMMENDATIONS

General chemistry parameters at the site have remained relatively stable.

One PCB aroclor 1260 was detected above the RAP cleanup level in the LF4GW104, QC duplicate sample in the Third Quarter 2005. No other PCB detections have occurred in any LF 4 groundwater samples.

Dissolved metals concentrations at the site have remained relatively stable The potential for increasing or decreasing dissolved nickel concentrations within monitoring wells LF4GW103 and LF4GW104 will continue to be evaluated in future monitoring events, in accordance with the RAP.

With the exception of beta-BHC, PCB aroclor 1260, and nickel, no RAP-specified cleanup levels have been exceeded within LF 4 monitoring well samples to date.

No significant trends were observed in the samples collected during the First and Second Quarters 2006.

Table 3-10
Soil and Groundwater Cleanup Levels for Landfill 4
The Presidio of San Francisco, California

Potential Contaminant of Concern	Effective Soil Cleanup Level (mg/kg)	Human Health Residential Soil Cleanup Level[a] (mg/kg)	Effective Groundwater Cleanup Level (mg/L)
	Beach/Dune	Beach/Dune	
Inorganic Chemicals			
Antimony	5	29	6
Arsenic	5.9	5.9	50
Barium	320	5,000	1,000
Beryllium	10	140	4
Cadmium	1.7	1.7	5
Chromium III	--	--	50
Chromium VI	--	--	--
Chromium (Total)	120	1,200	50
Cobalt	20	4,000	--
Copper	43	--	1,000
Cyanide	2,500	1,000	200
Lead	160	400	15
Mercury	0.4	20	2
Molybdenum	11.5	360	--
Nickel	70	1,400	100
Selenium	0.75	360	50
Silver	2	360	100
Thallium	1	5.7	2
Vanadium	92	650	--
Zinc	66	22,000	5,000
Semivolatile Organic Compounds			
Acenaphthene	16	2,700	--
Acenaphthylene	30	--	--
Anthracene	2.9	14,000	770
Benzo(a)anthracene	0.38	0.27	0.1
Benzo(a)pyrene	0.038	0.027	0.2
Benzo(b)fluoranthene	0.38	0.27	0.2
Benzo(g,h,i)perylene	5.3	--	50
Benzo(k)fluoranthene	0.38	0.27	*4*
Benzyl Alcohol	1	14,000	--
Bis(2-ethylhexyl)phthalate	160	--	--
Chrysene	3.8	2.7	20
Dibenzo(a,h)anthracene	0.11	0.078	--
Dibenzofuran	2,200	910	--
Fluoranthene	30	1,800	300
Fluorene	5.1	1,800	300
Indeno(1,2,3-c,d)pyrene	0.38	0.27	--
2-methylnaphthalene	0.25	--	--
2-methylphenol (o-Cresol)	--	--	--
3,4-methylphenol (m- and p-Cresol)	50	260	--
Naphthalene	1.7	910	300
n-dotriacontane	--	--	--
n-hentriacontane	--	--	--
n-nitrosodiphenylamine	20	43	--
n-triacontane	--	--	--
Pentachlorophenol	3	5	--
Phenanthrene	11	--	230
Phenol	0.076	27,000	--
Polycyclic Aromatic Hydrocarbons			
Pyrene	30	1,400	230

Table 3-10
Soil and Groundwater Cleanup Levels for Landfill 4
The Presidio of San Francisco, California

Potential Contaminant of Concern	Effective Soil Cleanup Level (mg/kg)	Human Health Residential Soil Cleanup Level[a] (mg/kg)	Effective Groundwater Cleanup Level (mg/L)
	Beach/Dune	Beach/Dune	
Volatile Organic Compounds			
Acetone	0.24	43	--
Bromodichloromethane	0.025	--	80
2-butanone (MEK)	3.8	590	--
Carbon Disulfide	670	250	--
Carbon Tetrachloride	0	--	0.5
Chlorodibromomethane	--	--	80
Chlorobenzene	3	--	70
Chloroform	0.079	--	80
Chloromethane	0.42	--	--
1,4-dichlorobenzene	0.13	0.13	75
1,2-dichloroethane	0.006	--	0.5
Methylene Chloride	0.076	0.86	5
Tetrachloroethene	0.15	--	5
1,1,1-trichloroethane	8.0	76	200
Trichloroethene	0.40	--	5
Trichlorofluoromethane	120	40	--
PCBs, Pesticides, and Herbicides			
PCBs (Aroclor 1254)	0.033	0.16	0.5
Aldrin	0.0039	0.029	--
alpha-BHC	0.062	0.18	--
beta-BHC	0.062	0.32	--
delta-BHC	0.062	0.18	--
Chlordane	0.009	0.37	*0.25*
2,4-D	0.025	620	--
4,4'-DDD	0.049	2.0	--
4,4'-DDE	0.098	1.4	--
4,4'-DDT	0.0082	1.4	--
Dicamba	0.01	1,800	--
Dieldrin	0.039	0.030	0.5
Endosulfan	1.1	370	--
Endosulfan Sulfate	1.1	370	--
Endrin	0.004	18	2
Endrin Aldehyde	0.0035	18	2
Endrin Ketone	0.004	18	2
gamma-BHC (Lindane)	0.01	0.44	0.2
gamma-Chlordane	0.009	0.37	--
Heptachlor	0.017	0.12	*0.025*
Heptachlor Epoxide	0.017	0.088	0.2
Isodrin	0.0039	0.029	--
MCPP	5.0	--	--
Methoxychlor	0.44	310	40
Petroleum Hydrocarbons			
TPH (as gasoline) (C7 - C12)	610	1,030	770
TPH (as diesel) (C12-C24)	700	1,380	880
TPH (as fuel oil) (C24-C36)	980	1,900	1,200
BTEX Compounds			
Benzene	0.045	0.6	1
Ethylbenzene	2.5	840	700
Toluene	2.6	530	150
Total Xylenes	1.0	1,080	1,750

Notes
a Residential cleanup levels do not apply to this site; they are included only for reference.
Italics indicate compounds for which the cleanup level is below the laboratory detection limit and the detection limit therefore serves as the cleanup level.

Table A-8-1
Results of General Chemistry Analyses
Landfill 4
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N[2]	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	353.2/ E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
LF04GW03	05/24/05	120	120	65	0.9	< 0.1	0.33	< 0.05	NA	39
	03/18/05	83	83	64	0.9	< 0.1	4	< 0.05	NA	37
	03/17/04	41	41	73	3.2	< 0.1	17	< 0.05	< 0.05	74
	05/13/99	58.8	58.8	71.4	9.11 (J35)	NA	NA	NA	2.83 (J12)	39.5
	08/12/98	54.9	54.9	61	7.4	0.146	NA	NA	< 0.05	18.8
	04/13/98	47	47	55	4.89	0.1	NA	NA	< 0.05	22
	01/12/98	25.3	25.3	172	NM	NA	NA	NA	2.3	47
	05/06/97	69	69	79	6.25	0.1	NA	NA	< 0.05	22
	02/04/97	73	73	57	6.41	0.1	NA	NA	1.5	31
	05/29/96	100	100	88	NM	NA	NA	NA	0.1	38
	03/12/96	99	99	41	NM	0.312	4.8	NA	NA	29
	04/04/95	107	107	63.6	NM	NA	18	NA	NA	56.6
LF4GW101	03/17/05	37	37	37	1.5	< 0.1	0.11	< 0.05	NA	12
LF4GW102	08/31/05	230	230	92	0.1	< 0.1	1.4	< 0.05	NA	61
DUP0831053A	08/31/05	230	230	90	--	< 0.1	1.4	< 0.05	NA	61
	03/17/05	250	250	130	0.1	< 0.1	1.2	< 0.05	NA	75
DUP0317053B	03/17/05	260	260	120	--	< 0.1	1.2	< 0.05	NA	72
LF4GW102CL	03/17/05	272	272	123	--	< 0.3 U	1.22	< 1 U	NA	71.9
	12/15/04	340	340	170	0.1	< 0.1	1.3	< 0.05	NA	85
DUP1215042C	12/15/04	340	340	170	--	< 0.1	1.2	< 0.05	NA	86
LF4GW102CL	12/15/04	334	334	160	--	< 0.3 U	NA	NA	1.22	96.7
	08/11/04	270	270	130	0.12	< 0.1	0.97	< 0.05	NA	75
DUP0811042A	08/11/04	280	280	130	--	< 0.1	0.96	< 0.05	NA	75
LF4GW102CL	08/11/04	274	274	130	--	< 0.1	NA	NA	0.81 J-	77
	05/25/04	260	260	130	0.69	< 0.1	0.92	< 0.05	NA	77
DUP0525042A	05/25/04	250	250	130	--	< 0.1	0.94	< 0.05	NA	75
	03/09/04	340	340	160	0.21	< 0.1	1.1	< 0.05	NA	79
DUP0309042A	03/09/04	340	340	160	--	< 0.1	1.1	< 0.05	NA	83

Table A-8-1
Results of General Chemistry Analyses
Landfill 4
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N[2]	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	353.2/ E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
LF4GW102	12/04/03	370	370	160	0.6	< 0.1	1	< 0.05	NA	80
DUP1204031A	12/04/03	370	370	160	--	< 0.1	1	< 0.05	NA	80
LF4GW102CL	12/04/03	350	350	173	--	< 0.1	1.4 J-	< 0.05	1.4 J-	83.6
	08/21/03	280	280	120	1.2	< 0.1	1	< 0.05	NA	72
	06/09/03	290	290	120	0.4	< 0.1	1.1	< 0.05	NA	74
DUP0609033A	06/09/03	260	260	130	--	< 0.1	1.1	< 0.05	NA	79
LF4GW102CL	06/09/03	280	280	120	--	0.66	1	< 0.05	1	66
	03/20/03	300	300	130	0.5	< 0.1	1.2	< 0.05	NA	72
DUP0320031A	03/20/03	280	280	130	--	< 0.1	1.2	< 0.05	NA	73
LF4GW103	05/25/06	1,200	1,200	480	3.71	0.1	0.07	< 0.05	NA	390
	03/07/06	1,300	1,300	510	0.4	< 0.1	< 0.05	< 0.1	NA	410
DUP0307063A	03/07/06	1,300	1,300	500	--	< 0.1	< 0.05	< 0.1	NA	410
LF4GW103CL	03/07/06	1,190	1,190	601	--	< 1 U	0.046	< 0.02 U	NA	428
	08/31/05	1,100	1,100	300	0.2	< 0.1 UJ	0.06	< 0.05 UJ	NA	330
	03/15/05	290	290	140	0.1	< 0.1	< 0.05	< 0.05	NA	44
	12/14/04	630	630	170	0.2	0.11	< 0.05	< 0.05	NA	200
	08/10/04	330	330	140	0.27	0.12	< 0.05	< 0.05	NA	41
	05/25/04	280	280	140	0.92	0.13	< 0.05	< 0.05	NA	36
	03/09/04	380	380	160	0.29	0.15	< 0.05	< 0.05	NA	97
	12/02/03	530	530	180	0.7	0.15	< 0.05	< 0.05	NA	160
	08/13/03	340	340	140	0.1	< 0.5	< 0.25 UJ	< 0.25 UJ	NA	37
	06/09/03	260	260	170	0.5	< 0.1	< 0.05	< 0.05	NA	43
	03/20/03	240	240	240	0.4	0.32	< 0.05	< 0.05	NA	70
LF4GW104	05/25/06	650	650	350	2.4	< 0.1	0.62	< 0.05	NA	170
	03/07/06	670	670	360	0.11	< 0.1	0.53	< 0.05	NA	170
	08/30/05	690	690	320	0.2	< 0.1 UJ	0.69	< 0.05 UJ	NA	150
DUP0830053B	08/30/05	680	680	320	--	< 0.1 UJ	0.69	< 0.05 UJ	NA	150
LF4GW104CL	08/30/05	670	670	308	--	< 0.3 U	1.20	< 1 U	NA	151
	03/15/05	650	650	290	0.1	< 0.1	0.6	< 0.05	NA	140

Table A-8-1
Results of General Chemistry Analyses
Landfill 4
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N[2]	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	353.2/ E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
LF4GW104	12/14/04	720	720	290	0.1	< 0.1	0.41	< 0.05	NA	140
	08/10/04	690	690	260	0.15	< 0.1	0.32	< 0.05	NA	130
	05/25/04	580	580	260	0.33	< 0.1	0.31	< 0.05	NA	140
	03/09/04	630	630	250	0.07	< 0.1	0.34	< 0.05	NA	140
	12/02/03	680	680	250	0.2	< 0.1	0.3	< 0.05	NA	140
	08/13/03	640	640	240	0.3	< 0.5	< 0.25 UJ	< 0.25 UJ	NA	140
	06/09/03	640	640	250	0.5	0.15	0.37	< 0.05	NA	140
DUP0609031A	06/09/03	600	600	250	--	< 0.1	0.53	< 0.05	NA	140
	03/20/03	510	510	230	0.2	< 0.1	0.35	1.3	NA	140
LF4GW105	08/31/05	310	310	150	0.2	< 0.1	1.4	< 0.05	NA	66
	03/15/05	340	340	180	0.1	< 0.1	1.6	< 0.05	NA	73
	12/14/04	370	370	170	0.1	< 0.1	2.1	< 0.05	NA	73
	08/10/04	350	350	280	0.12	< 0.1	1.8	< 0.05	NA	84
	05/25/04	330	330	140	0.59	< 0.1	1.3	< 0.05	NA	60
	03/09/04	380	380	130	0.18	< 0.1	1.5	< 0.05	NA	55
	12/02/03	420	420	130	0.3	< 0.1	1.6	< 0.05	NA	51
	08/13/03	440	440	120	0.3	< 0.5	1.4 b,J-	< 0.25 UJ	NA	59
	06/09/03	410	410	140	0.5	0.32	1.7	< 0.05	NA	56
	03/20/03	390	390	130	2.2	< 0.1	1.5	< 0.05	NA	51
LF4GW106	08/31/05	500	500	130	0.2	< 0.1	0.81	< 0.05	NA	87
	03/15/05	500	500	150	0.1	< 0.1	0.88	< 0.05	NA	92
	12/14/04	540	540	150	0.2	< 0.1	0.85	< 0.05	NA	96
	08/10/04	560	560	140	0.06	< 0.1	0.8	< 0.05	NA	95
	05/25/04	520	520	150	0.33	< 0.1	0.74 J	< 0.05 UJ	NA	98
	03/09/04	600	600	150	0.31	< 0.1	0.7	< 0.05	NA	99
	12/02/03	680	680	140	0.4	< 0.1	0.56	< 0.05	NA	96
	08/13/03	700	700	140	0.3	< 0.5	0.42 b,J-	< 0.25 UJ	NA	100

Table A-8-1
Results of General Chemistry Analyses
Landfill 4
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N[2]	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	353.2/ E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
LF4GW106	06/09/03	640	640	150	0.3	< 0.1	0.57	< 0.05	NA	100
	03/20/03	540	540	160	3.8	< 0.1	0.68	< 0.05	NA	99

Notes
mg/L - milligrams per liter
NA - not analyzed
NM - not measured
1 - The identified analytical method(s) are for analyses performed in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Nitrite as N prior to May 2001 analysis includes nitrate as N.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-8-2
Results of TPH, PAH, Chlorinated Herbicide, OCP, PCB, and VOC Analyses
Landfill 4
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})	PAHs			All Chlorinated Herbicides	OCPs and PCBs			Volatile Organic Compounds (VOCs)								
					Fluor-anthene	Phen-anthrene	All Other PAHs		beta-BHC	Chloro-diphenyl (PCB-1260)	All Other OCPs / PCBs	Acetone	Benzene	Carbon Disulfide	Chloro-benzene	Dibromo-chloro-methane	PCE	Toluene	TCE	All Other VOCs
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8270/ SW8270C/ SW8310	SW8270/ SW8270C/ SW8310	SW8270/ SW8270C/ SW8310	SW8150/ SW8151/ SW8151A	SW8080/ SW8081/ SW8081A/ SW8082	SW8082	SW8080/ SW8081/ SW8081A/ SW8082	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Level		**770**	**880**	**1,200**	**1,500 [2]**	**230 [3]**	**--**	**--**	**0.037 [4]**	**0.5**	**--**	**610 [2]**	**1**	**1,000 [2]**	**70**	**80 [3]**	**5**	**150**	**5**	**--**
LF04GW03	05/24/05	NA	NA	NA	< 0.39	< 0.49	ND	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/18/05	< 50	< 50	< 300	< 0.4	< 0.5	ND	ND	< 0.05	< 0.38 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/17/04	< 50	< 50	< 300	< 0.39	< 0.49	ND	ND	< 0.05	< 0.49	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/13/99	NA	180 (J25)	< 300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/11/99	< 50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	< 5	0.79 (J32)	< 0.5	0.87 (J32)	< 0.5	**6.2 (J32)**	ND
	08/12/98	< 50	51 (J25)	< 50	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/13/98	< 50	< 50	1,000 (J25)	< 10	< 10	ND	ND	< 0.05	< 1	ND	NA	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	01/12/98	< 50	< 50	< 300	< 10	< 10	ND	ND	< 0.05	< 1	ND	NA	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/06/97	< 50	< 50	< 300	< 10	< 10	ND	ND	< 0.05	< 1	ND	NA	0.4 (J28)	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/04/97	< 50	< 50	< 300	< 10	< 10	ND	ND	< 0.05	< 1	ND	NA	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/29/96	< 50	< 50	< 300	< 10	< 10	ND	ND	< 0.05	< 1	ND	< 10	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/12/96	< 50	< 50	< 300 (U16)	< 10	< 10	ND	ND	< 0.005	< 0.1	ND	< 10	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF4GW101	03/17/05	< 50	< 50	< 300	< 0.39	< 0.49	ND	ND	< 0.05	< 0.49	ND	< 10 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF4GW102	08/31/05	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.5	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0831053A	08/31/05	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.49	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/17/05	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.38	ND	< 10 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0317053B	03/17/05	< 50	< 50	< 300	< 0.39	< 0.49	ND	ND	< 0.05	< 0.39	ND	< 10 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF4GW102CL	03/17/05	< 50 U	< 50 U	< 300 U	< 0.2 U	< 1 U	ND	ND	< 0.05 U	< 1 U	ND	< 10 U	< 0.5 U	< 5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	ND
	12/15/04	NA	NA	NA	< 0.4	< 0.5	ND	ND	ND	NA	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP1215042C	12/15/04	NA	NA	NA	< 0.4	< 0.5	ND	ND	ND	NA	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF4GW102CL	12/15/04	NA	NA	NA	< 0.2 U	< 1 U	ND	ND	ND	NA	ND	< 10 U	< 0.5 U	< 5 U	< 0.5 U	< 0.5 U	< 0.5	< 0.5 U	< 0.5	ND
	08/11/04	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.48 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0811042A	08/11/04	< 50	< 50	< 300	< 0.38	< 0.47	ND	ND	< 0.05	< 0.49 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF4GW102CL	08/11/04	< 100	< 100 J-	< 400 UJ	< 0.2	< 1	ND	ND	< 0.02	< 1 UJ	ND	NA	< 1	NA	< 1	< 1	< 1	< 1	< 2 UJ	ND
	05/25/04	< 50	< 50	< 300	< 0.38	< 0.47	ND	ND	< 0.05 UJ	< 0.47 UJ	ND	29	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0525042A	05/25/04	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05 UJ	< 0.48 UJ	ND	27	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/09/04	< 50	< 50	< 300	< 0.38	< 0.47	ND	ND	< 0.05 UJ	< 0.48 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0309042A	03/09/04	< 50	< 50	< 300	< 0.38	< 0.47	ND	ND	< 0.05 UJ	< 0.47 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/03	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.48 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP1204031A	12/04/03	< 50	< 50	< 300	0.02 J	< 0.49	ND	ND	< 0.05	< 0.49 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF4GW102CL	12/04/03	< 50	< 48 UJ	< 240 UJ	< 0.095 UJ	0.24 J-	ND	ND	< 0.048 UJ	< 0.96 UJ	ND	< 10 R	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/21/03	< 50	< 50	< 300	0.04 J	< 0.47	ND	ND	< 0.05	< 0.49 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 50	< 50	< 300	0.02 J	< 0.48	ND	ND	< 0.05	< 0.48 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0609033A	06/09/03	< 50	< 50	< 300	0.02 J	< 0.48	ND	ND	< 0.05 UJ	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF4GW102CL	06/09/03	< 50	< 50	< 250	< 0.096	0.11	ND	ND	**0.062 J-**	< 0.99 R	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/20/03	< 50	< 50	< 300	< 9.5	< 9.5	ND	ND	**0.2**	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0320031A	03/20/03	< 50	< 50	< 300	< 9.5	< 9.5	ND	ND	**0.1**	< 0.48 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF4GW103	03/07/06	NA	NA	NA	NA	NA	NA	NA	NA	< 0.48	NA / ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP0307063A	03/07/06	NA	NA	NA	NA	NA	NA	NA	NA	< 0.47	NA / ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
LF4GW103CL	03/07/06	NA	NA	NA	NA	NA	NA	NA	NA	< 1 U UJ	NA / ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/05	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/15/05	< 50	< 50	< 300	< 0.4	< 0.5	ND	ND	< 0.05	< 0.49	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/14/04	NA	NA	NA	< 0.39	< 0.49	ND	ND	ND	NA	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/10/04	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.47	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/25/04	< 50	< 50	< 300	< 0.38	< 0.47	ND	ND	< 0.05 UJ	< 0.47 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/09/04	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05 UJ	< 0.48 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 50	< 50	< 300	< 0.38	< 0.47	ND	ND	< 0.05	< 0.49	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 50	< 50	< 300	< 0.38	< 0.47	ND	ND	< 0.05 UJ	< 0.48 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.49	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/20/03	< 50	< 50	< 300	< 9.5	< 9.5	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	0.7	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND

Table A-8-2
Results of TPH, PAH, Chlorinated Herbicide, OCP, PCB, and VOC Analyses
Landfill 4
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})	PAHs			All Chlorinated Herbicides	OCPs and PCBs			Volatile Organic Compounds (VOCs)								
					Fluor-anthene	Phen-anthrene	All Other PAHs		beta-BHC	Chloro-diphenyl (PCB-1260)	All Other OCPs / PCBs	Acetone	Benzene	Carbon Disulfide	Chloro-benzene	Dibromo-chloro-methane	PCE	Toluene	TCE	All Other VOCs
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8270/ SW8270C/ SW8310	SW8270/ SW8270C/ SW8310	SW8270/ SW8270C/ SW8310	SW8150/ SW8151/ SW8151A	SW8080/ SW8081/ SW8081A/ SW8082	SW8082	SW8080/ SW8081/ SW8081A/ SW8082	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Level		**770**	**880**	**1,200**	**1,500 [2]**	**230 [3]**	**--**	**--**	**0.037 [4]**	**0.5**	**--**	**610 [2]**	**1**	**1,000 [2]**	**70**	**80 [3]**	**5**	**150**	**5**	**--**
LF4GW104	03/07/06	NA	NA	NA	NA	NA	NA	NA	NA	< 0.48	NA / ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/30/05	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.48 UJ	ND	< 10 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0830053B	08/30/05	< 50	< 50	< 300	< 0.39	< 0.49	ND	ND	< 0.05	< 0.47 UJ	ND	< 10 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF4GW104CL	08/30/05	< 50 U	< 50 U	< 300 U	< 0.2 U UJ	< 1 U UJ	ND	ND	< 0.05 U	**1 J-**	ND	< 10 U	< 0.5 U	< 5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	ND
	03/15/05	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/14/04	NA	NA	NA	< 0.39	< 0.49	ND	ND	ND	NA	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/10/04	< 50	< 50	< 300	< 0.38	< 0.47	ND	ND	< 0.05	< 0.47	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/25/04	< 50	< 50	< 300	< 0.38	< 0.47	ND	ND	< 0.05 UJ	< 0.48 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/09/04	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05 UJ	< 0.47 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05 UJ	< 0.47	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.49 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0609031A	06/09/03	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/20/03	< 50	< 50	< 300	< 9.5	< 9.5	ND	ND	< 0.05 UJ	< 0.47 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	0.5	< 0.5	1.3	< 0.5	ND
LF4GW105	08/31/05	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/15/05	< 50	< 50	< 300	< 0.38	< 0.47	ND	ND	< 0.05	< 0.56	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/14/04	NA	NA	NA	< 0.38	< 0.47	ND	ND	ND	NA	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/10/04	< 50	< 50	< 300	< 0.4	< 0.5	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/25/04	< 50	< 50	< 300	< 0.38	< 0.47	ND	ND	< 0.05 UJ	< 0.47	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/09/04	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 50	< 50	< 300	< 0.39	< 0.49	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.47	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/20/03	< 50	< 50	< 300	< 9.5	< 9.5	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF4GW106	08/31/05	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/15/05	< 50	< 50	< 300	< 0.39	< 0.49	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/14/04	NA	NA	NA	< 0.38	< 0.48	ND	ND	ND	NA	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/10/04	< 50	< 50	490	< 0.38	< 0.47	ND	ND	< 0.05	< 0.47	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/25/04	< 50	< 50	< 300	< 0.38	< 0.47	ND	ND	< 0.05	< 0.47	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/09/04	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 50	< 50	< 300	< 0.38	< 0.47	ND	ND	< 0.05	< 0.49	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 50	< 50	< 300	< 0.38	< 0.47	ND	ND	< 0.05	< 0.48 UJ	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 50	< 50	< 300	< 0.38	< 0.48	ND	ND	< 0.05	< 0.49	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/20/03	< 50	< 50	< 300	< 9.5	< 9.5	ND	ND	< 0.05	< 0.48	ND	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND

Notes
µg/L - micrograms per liter
NA - not analyzed
ND - not detected
1 - The identified analytical method(s) are for analyses performed in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - USEPA Region IX tap water preliminary remediation goal (PRG).
3 - From Table 7-6 of the Cleanup Levels Document.
4 - The RAP does not list a cleanup level for beta-BHC; however, the RAP states that when chemicals are encountered in groundwater and cleanup levels are not listed, the default should be Tap Water PRGs. The Tap Water PRG for beta-BHC (HCH-beta) is 0.037 µg/L.
VOC - volatile organic compound
TPH - total petroleum hydrocarbons
PCE - tetrachloroethene
TCE - trichloroethene
PCBs - polychlorinated biphenyls
PAHs - polycyclic aromatic hydrocarbons
OCPs - organochlorine pesticides
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-8-3
Results of Dissolved Metals Analyses
Landfill 4
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Level		**36,000 [2]**	**6**	**50**	**1,000**	**4**	**5**	**--**	**50**	**730 [2]**	**1,000**	**--**	**11,000 [2]**	**15**	**--**	**880 [2]**	**2**	**100**	**--**	**50**	**100**	**--**	**2**	**260 [2]**	**5,000**	**--**
LF04GW03	05/24/05	< 100 UJ	< 1	< 5	38	< 2	< 1	26,000	< 10	< 10	1.1	NA	< 100	< 3	25,000	23	< 0.2	21	1,800	< 5	< 1	60,000	< 1	< 10	< 20	340
	03/18/05	< 100	< 1	< 5	25	< 2	< 1	19,000	< 10	< 10	1.4	NA	100	< 3	17,000	< 10	< 0.2	< 20	2,400	< 5	< 1	33,000	< 1	< 10	< 20	250 J-
	03/17/04	< 100	< 1	< 5	39	< 2	< 1	34,000	< 10	< 10	1.2	NA	< 100	< 3	29,000	< 10	< 0.2	< 20	1,500	< 5	< 1 UJ	39,000	< 1	< 10	< 20	440
	05/13/99	< 100	< 5	< 5	22	< 4	< 2	11,600	< 10	< 10	< 10	NA	< 100	< 3	13,300	31	NA	< 20	< 5,000	< 5	< 2	49,400	< 2	< 10	< 20	307
	08/12/98	< 100	< 5	< 5	20	< 4	< 2	12,600	< 10	< 10	< 10	NA	442	< 3	13,800	394	< 0.2	< 20	< 5,000	< 5	< 2	41,300	< 2	< 10	< 20	248
	04/13/98	110	< 5	< 5	16	< 4	< 2	9,400	< 10	< 10	12	NA	< 100	< 3	13,000	27	< 0.2	23	< 5,000	< 5	< 2	32,000	< 2	< 10	< 20	220
	01/12/98	< 100	< 5	< 5	33	< 4	< 2	25,500	< 10	< 10	< 10	NA	< 100	< 3	26,800	12	< 0.2	< 20	< 5,000	< 5	< 2	68,900	< 2	< 10	< 20	523
	05/06/97	< 100	< 5	< 5	19	< 4	< 2	15,000	< 10	< 10	< 10	NA	< 100	< 3	16,000	70	< 0.2	< 20	< 5,000	< 5	< 2	43,000	< 2	< 10	< 20	320
	02/04/97	< 100	< 5	< 5	22	< 4	< 2	14,000	< 10	< 10	< 10	NA	< 100	< 3	18,000	< 10	< 0.2	< 20	< 5,000	< 5	< 2	47,000	< 2	< 10	< 20	330 (J29)
	05/29/96	< 100	< 5	< 5	30	< 2	< 0.5	22,000	2	< 10	2	NA	100	< 1	20,000	40	< 0.2	14	< 5,000	< 5	< 0.5	58,000	< 2	< 10	30	NA
	03/12/96	130	< 5	< 5	27	< 2	< 0.5	16,400	3	< 10	3	NA	167	2	17,300	< 10	< 0.2	19	< 5,000	< 5	< 0.5	47,000	< 2	< 10	< 20	NA
	04/04/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	274
LF4GW101	03/17/05	250	< 1	< 5	< 10	< 2	< 1	5,300	< 10	< 10	1.5	NA	880	< 3	7,200	140	< 0.2	30	890	< 5	< 1	25,000	< 1	< 10	< 20	220 J-
LF4GW102	08/31/05	< 100	< 1	< 5	66	< 2	< 1	22,000	< 10	< 10	< 1	NA	190	< 3	57,000	17	< 0.2	< 20	940 J	< 5	< 1	49,000	< 1	< 10	< 20	590
DUP0831053A	08/31/05	< 100	< 1	< 5	67	< 2	< 1	23,000	< 10	< 10	< 1	NA	190	< 3	63,000	16	< 0.2	< 20	970 J	< 5	< 1	53,000	< 1	< 10	< 20	580
	03/17/05	< 100	< 1	< 5	36	< 2	< 1	21,000 J	< 10	< 10	2.9	NA	< 100	< 3	39,000	10	< 0.2	< 20	1,200	< 5	< 1	44,000	< 1	< 10	< 20	620 J-
DUP0317053B	03/17/05	< 100	< 1	< 5	33	< 2	< 1	20,000 J	< 10	< 10	1.4	NA	< 100	< 3	38,000	< 10	< 0.2	< 20	1,100	< 5	< 1	44,000	< 1	< 10	< 20	540 J-
LF4GW102CL	03/17/05	< 100 U	< 2 U	< 2 U	40.1	< 1 U	< 1 U	24,500	10.6	< 1 U	< 2 U	NA	< 100 U	< 1 U	46,300	11.4	< 0.2 U	5.38	< 5,000 UN	< 2 U	< 1 U	52,900 J	< 1 U	< 10 U	< 20 U	587
	12/15/04	< 100	< 1	< 5	110	< 2	< 1	17,000 J	11	< 10	< 1	NA	< 100	< 3	71,000	22	< 0.2	< 20	1,100	< 5	< 1	120,000	< 1 UJ	< 10	< 20	770
DUP1215042C	12/15/04	< 100	< 1	< 5	110	< 2	< 1	38,000 J	12	< 10	< 1	NA	100	< 3	110,000	22	< 0.2	< 20	1,100	< 5	< 1	69,000	< 1 UJ	< 10	< 20	800
LF4GW102CL	12/15/04	< 100 U	< 2 U	< 2 U	121	< 1 U	< 1 U	42,900	11.6	< 1 U	< 2 U	NA	< 100 U	< 1 U	113,000	22.1	< 0.2 U	4.9	< 5,000 U	< 2 U	< 1 U	66,900	< 1 U	< 10 U	< 20 U	792
	08/11/04	< 100	< 1	< 5	65 J	< 2	< 1	34,000	10	< 10	< 1	NA	< 100	< 3	78,000	79	< 0.2	< 20	1,200	< 5	< 1	56,000	< 1	< 10	< 20	590
DUP0811042A	08/11/04	< 100	< 1	< 5	67 J	< 2	< 1	34,000	10	< 10	< 1	NA	< 100	< 3	77,000	96	< 0.2	< 20	1,200	< 5	< 1	54,000	< 1	< 10	< 20	610
LF4GW102CL [3]	08/11/04	< 11	< 10	< 40	54	< 10	< 10	24,000	11	< 10	< 10	NA	< 10	< 50	67,000	68	< 5	< 30	1,100	< 20	< 10	53,000	< 50	< 10	< 30	749
	05/25/04	< 100	< 1	< 5	80	< 2	< 1	36,000	12	< 10	< 1	NA	< 100	< 3	90,000	36	< 0.2	< 20	1,100	< 5	< 1	63,000	< 1	< 10	< 20	680
DUP0525042A	05/25/04	< 100	< 1	< 5	82	< 2	< 1	36,000	12	< 10	< 1	NA	< 100	< 3	89,000	39	< 0.2	< 20	1,200	< 5	< 1	62,000	< 1	< 10	< 20	670
	03/09/04	< 100	2.1	< 5	81	< 2	< 1	46,000	12	< 10	1.2	NA	< 100	< 3	110,000	43	< 0.2	< 20	1,400 J	< 5	< 1 UJ	65,000	< 1	< 10	< 20	730
DUP0309042A	03/09/04	< 100	2.4	< 5	88	< 2	< 1	45,000	12	< 10	< 1	NA	< 100	< 3	110,000	36	< 0.2	< 20	1,300 J	< 5	< 1 UJ	65,000	< 1	< 10	< 20	690
	12/04/03	< 100	< 1	< 5	110	< 2	< 1	35,000	12	< 10	< 1	NA	110	< 3	110,000	43	< 0.2	< 20	1,200	< 5	< 1	66,000	< 1	< 10	< 20	760
DUP1204031A	12/04/03	< 100	< 1	< 5	100	< 2	< 1	36,000	12	< 10	< 1	NA	100	< 3	110,000	49	< 0.2	< 20	1,200	< 5	< 1	65,000	< 1	< 10	< 20	660
LF4GW102CL	12/04/03	< 1000	< 5	6.5	96	< 1	< 1	41,000	11	< 7	< 10	NA	< 500	< 3	100,000	41	< 0.2	< 10	1,500	< 5	< 1	63,000	< 2	< 10	< 20	710
	08/21/03	< 100	2.3	< 5	53	< 2	< 1	35,000	11	< 10	< 1	NA	180	< 3	72,000	61	< 0.2	< 20	1,300	< 5	< 1 UJ	51,000	< 1	< 10	< 20 UJ	450
	06/09/03	< 100	< 1	< 5	48	< 2	< 1	34,000	12	< 10	< 1	NA	< 100	< 3	80,000	45	< 0.2	< 20	1,300	< 5	< 1 UJ	55,000	< 1	< 10	< 20	620
DUP0609033A	06/09/03	< 100	< 1	< 5	48	< 2	< 1	34,000	12	< 10	< 1	NA	< 100	< 3	79,000	46	< 0.2	< 20	1,300	< 5	< 1 UJ	54,000	< 1	< 10	< 20	680
LF4GW102CL	06/09/03	< 100	< 5	2.3	45	< 1	< 1	35,000	8	1	< 5	NA	1,300	< 3	76,000	77	< 0.2	7.3	1,600	< 5	< 1	55,000	< 2	NA	26	820 J
	03/20/03	< 100	< 1	< 1	68	< 1	< 1	34,000 J-	13	< 1	< 1	10	< 100	< 3	84,000	76	< 0.2	7.5	2,200	< 5	< 1	55,000	< 1	< 10	< 10	NA
DUP0320031A	03/20/03	< 100	1.1	< 1	69	< 1	< 1	1,700 J-	12	< 1	< 1	10	< 100	< 3	4,400	73	< 0.2	7.3	2,100	< 5	< 1	2,800	< 1	< 10	< 10	NA

Table A-8-3
Results of Dissolved Metals Analyses
Landfill 4
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Level		**36,000 [2]**	**6**	**50**	**1,000**	**4**	**5**	**--**	**50**	**730 [2]**	**1,000**	**--**	**11,000 [2]**	**15**	**--**	**880 [2]**	**2**	**100**	**--**	**50**	**100**	**--**	**2**	**260 [2]**	**5,000**	**--**
LF4GW103	05/25/06	< 100 UJ	NA	< 5	NA	NA	< 1	150,000	< 10	NA	2	NA	< 100	< 3	390,000	37	NA	**140**	1,900	NA	NA	160,000	NA	NA	< 20	2,640
	03/07/06	< 100	NA	< 5	NA	NA	< 1	140,000	< 10	NA	2.3	NA	510	< 3	390,000	85	NA	**150**	2,000	NA	NA	160,000	NA	NA	< 20	2,890
DUP0307063A	03/07/06	< 100	NA	< 5	NA	NA	< 1	140,000	< 10	NA	2.1	NA	470	< 3	400,000	80	NA	**150**	1,900	NA	NA	160,000	NA	NA	< 20	2,600
LF4GW103CL	03/07/06	< 100 U	NA	2.9	NA	NA	< 1 U	160,000	< 10 U	NA	2.3	NA	< 100 U	< 1 U	470,000	79	NA	**133**	< 5,000 U	NA	NA	190,000	NA	NA	< 20 U	2,730 J+
	08/31/05	< 100	< 1	< 5	260	< 2	< 1	110,000	< 10	< 10	1.1	NA	870	< 3	330,000	170	< 0.2	**220**	3,200 J	< 5	< 1	130,000	< 1	< 10	52	1,900
	03/15/05	< 100	< 1	< 5	27	< 2	< 1	27,000	< 10	< 10	< 1	NA	< 100	< 3	81,000	48	< 0.2	46	2,000	< 5	< 1	61,000	< 1	< 10	< 20	510
	12/14/04	< 100	< 1	5.3	62	< 2	< 1	61,000 J	< 10	< 10	< 1	NA	160	< 3	160,000	140	< 0.2	**120**	3,000	< 5	< 1	97,000	< 1	< 10	< 20	370
	08/10/04	< 100	< 1	< 5	28 J	< 2	< 1	32,000	< 10	< 10	< 1	NA	< 100	< 3	84,000	49	< 0.2	39	2,400	< 5	< 1	63,000	< 1	< 10	< 20	640
	05/25/04	< 100	< 1	6	20	< 2	< 1	33,000	< 10	< 10	< 1	NA	< 100	< 3	86,000	52	< 0.2	26	2,500	< 5	< 1	65,000	< 1	< 10	< 20	620
	03/09/04	< 100	< 1	< 5	25	< 2	< 1	44,000	< 10	< 10	1.1	NA	< 100	< 3	110,000	78	< 0.2	38	3,300 J	< 5	< 1 UJ	76,000	< 1	< 10	< 20	750
	12/02/03	< 100	< 1	< 5	25	< 2	< 1	50,000	< 10	< 10	< 1	NA	230	< 3	140,000	110	< 0.2	45	4,000	< 5	< 1 UJ	86,000	< 1	< 10	< 20	850
	08/13/03	< 100	1	< 5	< 10	< 2	< 1	29,000	< 10	< 10	< 1	NA	150	< 3	75,000	52	< 0.2	< 20	3,700	< 5	< 1 UJ	57,000	< 1	< 10	< 20	490
	06/09/03	< 100	< 1	< 5	< 10	< 2	< 1	31,000	< 10	< 10	< 1	NA	< 100	< 3	78,000	46	< 0.2	< 20	4,400	< 5	< 1 UJ	63,000	< 1	< 10	< 20	670
	03/20/03	< 100	1.1	3.8	12	< 1	< 1	1,700 J-	< 1	< 1	< 1	< 10	< 100	< 3	4,100	50	< 0.2	17	8,300	< 5	< 1	4,700	< 1	< 10	< 10	NA
LF4GW104	05/25/06	< 100 UJ	NA	< 5	NA	NA	< 1	84,000	< 10	NA	< 1	NA	< 100	< 3	210,000	48	NA	21	1,700	NA	NA	94,000	NA	NA	< 20	1,660
	03/07/06	< 100	NA	< 5	NA	NA	< 1	83,000	< 10	NA	1.2	NA	260	< 3	210,000	64	NA	22	1,700	NA	NA	87,000	NA	NA	< 20	1,800
	08/31/05	< 100 UJ	< 1	< 5	230	< 2	< 1	77,000	< 10	< 10	< 1	NA	400	< 3	220,000	63	< 0.2	21	1,800	< 5	< 1	81,000	< 1	< 10	20	1,220
DUP0830053B	08/31/05	< 100 UJ	< 1	< 5	260	< 2	< 1	82,000	< 10	< 10	< 1	NA	370	< 3	200,000	72	< 0.2	21	1,700	< 5	< 1	86,000	< 1	< 10	29	1,340
LF4GW104CL	08/31/05	< 100 U	< 2 U	< 2 U	280	< 1 U	< 1 U	92,600	14.2	< 1 U	< 2 U	NA	< 100 U	< 1 U	234,000	67.7	< 0.2 U	18.7	< 5,000 U	< 2 U	< 1 U	98,000	< 1 U	14.3	< 20 U	1,360
	03/15/05	< 100	< 1	< 5	190	< 2	< 1	72,000	< 10	< 10	< 1	NA	130	< 3	180,000	56	< 0.2	< 20	1,700	< 5	< 1	78,000	< 1	< 10	< 20	1,360
	12/14/04	< 100	< 1	< 5	210	< 2	< 1	80,000 J	< 10	< 10	< 1	NA	190	< 3	200,000	63	< 0.2	< 20	1,800	< 5	< 1	88,000	< 1	< 10	< 20	1,210
	08/10/04	< 100	< 1	< 5	220 J	< 2	< 1	80,000	< 10	< 10	< 1	NA	170	< 3	200,000	64	< 0.2	< 20	1,800	< 5	< 1	87,000	< 1	< 10	< 20	980
	05/25/04	< 100	< 1	< 5	210	< 2	< 1	86,000	10	< 10	< 1	NA	210	< 3	220,000	57	< 0.2	< 20	1,900	< 5	< 1	93,000	< 1	< 10	< 20	1,250
	03/09/04	< 100	< 1	< 5	210	< 2	< 1	80,000	11	< 10	1	NA	120	< 3	200,000	47	< 0.2	< 20	2,000 J	< 5	< 1 UJ	86,000	< 1	< 10	< 20	1,200
	12/02/03	< 100	< 1	< 5	190	< 2	< 1	66,000	15	< 10	1	NA	290	< 3	170,000	40	< 0.2	< 20	2,100	< 5	< 1 UJ	77,000	< 1	< 10	< 20	950
	08/13/03	< 100	1.7	< 5	190	< 2	< 1	75,000	13	< 10	< 1	NA	340	< 3	180,000	34	< 0.2	< 20	2,400	< 5	< 1 UJ	80,000	< 1	< 10	< 20	1,070
	06/09/03	< 100	< 1	< 5	160	< 2	< 1	71,000	16	< 10	< 1	NA	130	< 3	190,000	22	< 0.2	< 20	2,600	< 5	< 1 UJ	80,000	< 1	< 10	< 20	1,190
DUP0609031A	06/09/03	< 100	1	< 5	170	< 2	< 1	69,000	15	< 10	< 1	NA	120	< 3	190,000	22	< 0.2	< 20	2,500	< 5	< 1 UJ	79,000	< 1	< 10	< 20	1,240
	03/20/03	< 100	< 1	3.1	130	< 1	< 1	4,100 J-	21	< 1	1.1	20	140	< 3	7,400	< 10	< 0.2	10	5,300	< 5	< 1	4,500	< 1	< 10	< 10	NA
LF4GW105	08/31/05	< 100	< 1	< 5	230	< 2	< 1	43,000	< 10	< 10	< 1	NA	320	< 3	93,000	< 10	< 0.2	< 20	670 J	< 5	< 1	61,000	< 1	< 10	22	790
	03/15/05	< 100	< 1	< 5	220	< 2	< 1	51,000	< 10	< 10	1.2	NA	< 100	< 3	100,000	14	< 0.2	< 20	970	< 5	< 1	54,000	< 1	< 10	30	770
	12/14/04	< 100	< 1	< 5	280	< 2	< 1	44,000 J	13	< 10	< 1	NA	< 100	< 3	100,000	< 10	< 0.2	< 20	670	< 5	< 1	66,000	< 1	< 10	< 20	760
	08/10/04	< 100	< 1	< 5	310 J	< 2	< 1	58,000	< 10	< 10	< 1	NA	110	< 3	130,000	< 10	< 0.2	< 20	830	< 5	< 1	73,000	< 1	< 10	< 20	1,220
	05/25/04	< 100	< 1	< 5	260	< 2	< 1	46,000	16	< 10	< 1	NA	120	< 3	110,000	< 10	< 0.2	< 20	830	< 5	< 1	69,000	< 1	< 10	< 20	710
	03/09/04	< 100	< 1	< 5	290	< 2	< 1	43,000	18	< 10	< 1	NA	< 100	< 3	100,000	< 10	< 0.2	< 20	670 J	< 5	< 1 UJ	65,000	< 1	< 10	< 20	630
	12/02/03	< 100	< 1	< 5	280	< 2	< 1	36,000	22	< 10	< 1	NA	130	< 3	93,000	< 10	< 0.2	< 20	700	< 5	< 1 UJ	58,000	< 1	< 10	< 20	540
	08/13/03	< 100	1.6	< 5	280	< 2	< 1	38,000	23	< 10	< 1	NA	180	< 3	100,000	< 10	< 0.2	< 20	720	< 5	< 1 UJ	64,000	< 1	< 10	< 20	610
	06/09/03	< 100	< 1	< 5	270	< 2	< 1	42,000	20	< 10	< 1	NA	< 100	< 3	110,000	< 10	< 0.2	< 20	700	< 5	< 1 UJ	62,000	< 1	< 10	< 20	840
	03/20/03	< 100	1.4	< 1	12	< 1	< 1	2,100 J-	20	< 1	< 1	20	< 100	< 3	5,200	11	< 0.2	8.5	1,000	< 5	< 1	3,200	< 1	< 10	< 10	NA

Table A-8-3
Results of Dissolved Metals Analyses
Landfill 4
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Level		**36,000 [2]**	**6**	**50**	**1,000**	**4**	**5**	**--**	**50**	**730 [2]**	**1,000**	**--**	**11,000 [2]**	**15**	**--**	**880 [2]**	**2**	**100**	**--**	**50**	**100**	**--**	**2**	**260 [2]**	**5,000**	**--**
LF4GW106	08/31/05	< 100	< 1	< 5	95	< 2	< 1	48,000	< 10	< 10	1.7	NA	340	< 3	130,000	17	< 0.2	< 20	1,400 J	< 5	< 1	58,000	< 1	< 10	< 20	910
	03/15/05	< 100	< 1	< 5	96	< 2	< 1	41,000	< 10	< 10	< 1	NA	< 100	< 3	140,000	15	< 0.2	< 20	1,400	< 5	< 1	56,000	< 1	< 10	< 20	900
	12/14/04	< 100	< 1	< 5	98	< 2	< 1	52,000 J	< 10	< 10	< 1	NA	110	< 3	140,000	65	< 0.2	< 20	1,500	< 5	< 1	65,000	< 1	< 10	< 20	900
	08/10/04	< 100	< 1	< 5	77 J	< 2	< 1	52,000	< 10	< 10	1.1	NA	100	< 3	140,000	< 10	< 0.2	< 20	1,700	< 5	< 1	61,000	< 1	< 10	< 20	1,210
	05/25/04	< 100	< 1	< 5	77	< 2	< 1	60,000	10	< 10	< 1	NA	150	< 3	170,000	< 10	< 0.2	< 20	1,700	< 5	< 1	70,000	< 1	< 10	< 20	980
	03/09/04	< 100	< 1	< 5	85	< 2	< 1	59,000	12	< 10	< 1	NA	< 100	< 3	170,000	17	< 0.2	< 20	1,600 J	< 5	< 1 UJ	68,000	< 1	< 10	< 20	890
	12/02/03	< 100	< 1	< 5	72	< 2	< 1	52,000	18	< 10	1.1	NA	200	< 3	160,000	13	< 0.2	< 20	1,800	< 5	< 1 UJ	62,000	< 1	< 10	< 20	750
	08/13/03	< 100	< 1	< 5	41	< 2	< 1	61,000	22	< 10	< 1	NA	280	< 3	170,000	13	0.39	< 20	2,100	< 5	< 1 UJ	67,000	< 1	< 10	< 20	970
	06/09/03	< 100	< 1	< 5	25	< 2	< 1	53,000	25	< 10	< 1	NA	< 100	< 3	170,000	16	< 0.2	< 20	2,500	< 5	< 1 UJ	61,000	< 1	< 10	< 20	1,040
	03/20/03	< 100	< 1	3.8	10	< 1	< 1	2,600 J-	29	< 1	1.8	30	< 100	< 3	7,300	< 10	< 0.2	4.9	5,500	< 5	< 1	3,400	< 1	< 10	< 10	NA

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - USEPA Region IX tap water preliminary remediation goal (PRG).
3 - Dissolved metals were analyzed by the quality control laboratory using method E200.7 on an Inductively Coupled Plasma (ICP) instrument.
The primary laboratory analyzed dissolved metals by EPA Method 6020 on an ICP/Mass Spectrometry (ICP/MS) instrument. Although variability between these two methods is not expected, the variability in the data may be a result of different instruments used.
NA - not analyzed
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Groundwater samples collected from all site monitoring wells were field filtered and analyzed for dissolved metals.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.
-- - Cleanup criteria not established
µg/L - micrograms per liter
mg/L -milligrams per liter

Table A-8-4
Groundwater Elevation Summary
Landfill 4
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF04GW03	05/22/06	13.81	292.70	278.89	MW
	03/06/06	14.40	292.70	278.30	MW
	11/28/05	18.84	292.70	273.86	MW
	08/29/05	18.07	292.70	274.63	MW
	05/23/05	17.56	292.70	275.14	MW
	03/14/05	13.37	292.70	279.33	MW
	12/13/04	18.74	292.70	273.96	MW
	08/09/04	Dry	292.70	274.20 [2]	MW
	05/24/04	18.10	292.70	274.60	MW
	03/08/04	15.75	292.70	276.95	MW
	12/01/03	Dry	292.70	274.20 [2]	MW
	08/11/03	18.47	292.70	274.23	MW
	06/02/03	17.24	292.70	275.46	MW
	03/10/03	17.10	292.70	275.60	MW
	12/02/02	Dry	292.70	274.20 [2]	MW
	08/26/02	Dry	292.70	274.20 [2]	MW
	05/28/02	17.85	292.70	274.85	MW
	03/04/02	16.71	292.70	274.85	MW
	11/26/01	Dry	292.70	274.20 [2]	MW
	08/27/01	Dry	292.70	274.20 [2]	MW
	05/08/01	18.50	292.70	274.85	MW
LF4GW100 [3]	05/22/06	16.05	299.84	283.79	MW
	03/06/06	21.21	299.84	278.63	MW
	11/28/05	23.40	299.84	276.44	MW
	08/29/05	23.24	299.84	276.60	MW
	05/23/05	Dry	299.84	275.30 [2]	MW
	03/14/05	Dry	299.84	275.30 [2]	MW
	12/13/04	Dry	299.84	275.30 [2]	MW
	08/09/04	Dry	299.84	275.30 [2]	MW
	05/24/04	Dry	299.84	275.30 [2]	MW
	03/08/04	Dry	299.84	275.30 [2]	MW
	12/01/03	Dry	299.84	275.30 [2]	MW
	08/11/03	24.12	299.84	275.72	MW
	06/02/03	24.00	299.84	275.84	MW
	03/10/03	Dry	299.84	275.30 [2]	MW
	12/02/02	Dry	299.84	275.30 [2]	MW
	08/26/02	Dry	299.84	275.30 [2]	MW
	05/28/02	Dry	299.84	275.30 [2]	MW
	03/04/02	Dry	299.84	275.30 [2]	MW
	11/26/01	Dry	299.84	275.30 [2]	MW
	08/27/01	Dry	299.84	275.30 [2]	MW
	05/08/01	Dry	299.84	275.30 [2]	MW
LF4GW101	05/22/06	15.13	297.35	282.22	MW
	03/06/06	15.27	297.35	282.08	MW
	11/28/05	20.52	297.35	276.83	MW
	08/29/05	Dry	297.35	274.55 [2]	MW
	05/23/05	Dry	297.35	274.55 [2]	MW
	03/14/05	14.78	297.35	282.57	MW
	12/13/04	Dry	297.35	274.55 [2]	MW
	08/09/04	Dry	297.35	274.55 [2]	MW
	05/24/04	Dry	297.35	274.55 [2]	MW
	03/08/04	Dry	297.35	274.55 [2]	MW

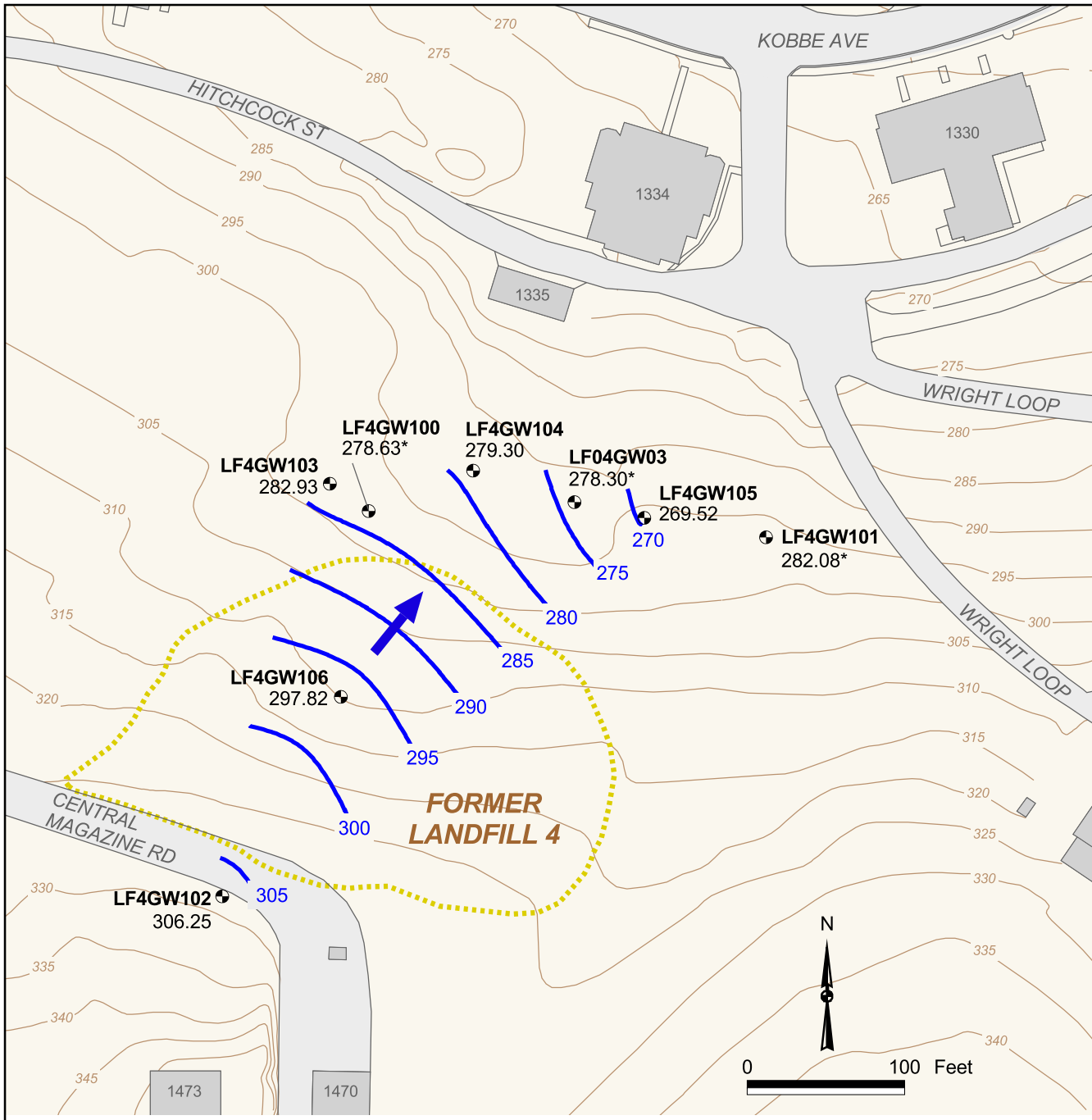
Table A-8-4
Groundwater Elevation Summary
Landfill 4
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF4GW101	12/01/03	20.00	297.35	277.35	MW
	08/11/03	Dry	297.35	274.55 [2]	MW
	06/02/03	Dry	297.35	274.55 [2]	MW
	03/10/03	23.00	297.35	274.35	MW
	12/02/02	Dry	297.35	274.55 [2]	MW
	08/26/02	Dry	297.35	274.55 [2]	MW
	05/28/02	Dry	297.35	274.55 [2]	MW
	03/04/02	23.35	297.35	274.00	MW
	11/26/01	Dry	297.35	274.55 [2]	MW
	08/27/01	Dry	297.35	274.55 [2]	MW
	05/08/01	Dry	297.35	274.55 [2]	MW
LF4GW102	05/22/06	17.11	329.49	312.38	MW
	03/06/06	23.24	329.49	306.25	MW
	11/28/05	32.25	329.49	297.24	MW
	08/29/05	27.55	329.49	301.94	MW
	05/23/05	24.29	329.49	305.20	MW
	03/14/05	30.07	329.49	299.42	MW
	12/13/04	38.75	329.49	290.74	MW
	08/09/04	35.62	329.49	293.87	MW
	05/24/04	33.76	329.49	295.73	MW
	03/08/04	36.85	329.49	292.64	MW
	12/01/03	38.99	329.49	290.50	MW
	08/11/03	35.74	329.49	293.75	MW
	06/02/03	34.53	329.49	294.96	MW
	03/10/03	36.58	329.49	292.91	MW
LF4GW103	05/22/06	17.33	304.26	286.93	MW
	03/06/06	21.33	304.26	282.93	MW
	11/28/05	26.79	304.26	277.47	MW
	08/29/05	25.12	304.26	279.14	MW
	05/23/05	32.20	304.26	272.06	MW
	03/14/05	34.11	304.26	270.15	MW
	12/13/04	36.66	304.26	267.60	MW
	08/09/04	34.80	304.26	269.46	MW
	05/24/04	34.65	304.26	269.61	MW
	03/08/04	34.67	304.26	269.59	MW
	12/01/03	36.90	304.26	267.36	MW
	08/11/03	33.49	304.26	270.77	MW
	06/02/03	33.76	304.26	270.50	MW
	03/10/03	35.60	304.26	268.66	MW
LF4GW104	05/22/06	13.99	297.75	283.76	MW
	03/06/06	18.45	297.75	279.30	MW
	11/28/05	22.59	297.75	275.16	MW
	08/29/05	21.19	297.75	276.56	MW
	05/23/05	20.64	297.75	277.11	MW
	03/14/05	25.81	297.75	271.94	MW
	12/13/04	29.97	297.75	267.78	MW
	08/09/04	27.95	297.75	269.80	MW
	05/24/04	27.90	297.75	269.85	MW
	03/08/04	29.73	297.75	268.02	MW
	12/01/03	30.00	297.75	267.75	MW
	08/11/03	28.75	297.75	269.00	MW
	06/02/03	29.60	297.75	268.15	MW
	03/10/03	30.87	297.75	266.88	MW

Table A-8-4
Groundwater Elevation Summary
Landfill 4
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF4GW105	05/22/06	25.11	300.57	275.46	MW
	03/06/06	31.05	300.57	269.52	MW
	11/28/05	35.60	300.57	264.97	MW
	08/29/05	33.63	300.57	266.94	MW
	05/23/05	35.45	300.57	265.12	MW
	03/14/05	40.59	300.57	259.98	MW
	12/13/04	44.17	300.57	256.40	MW
	08/09/04	42.58	300.57	257.99	MW
	05/24/04	43.20	300.57	257.37	MW
	03/08/04	44.76	300.57	255.81	MW
	12/01/03	45.35	300.57	255.22	MW
	08/11/03	44.30	300.57	256.27	MW
	06/02/03	45.57	300.57	255.00	MW
	03/10/03	46.81	300.57	253.76	MW
LF4GW106	05/22/06	8.91	311.36	302.45	MW
	03/06/06	13.54	311.36	297.82	MW
	11/28/05	21.88	311.36	289.48	MW
	08/29/05	17.72	311.36	293.64	MW
	05/23/05	17.31	311.36	294.05	MW
	03/14/05	23.85	311.36	287.51	MW
	12/13/04	30.31	311.36	281.05	MW
	08/09/04	28.20	311.36	283.16	MW
	05/24/04	28.30	311.36	283.06	MW
	03/08/04	31.65	311.36	279.71	MW
	12/01/03	31.40	311.36	279.96	MW
	08/11/03	28.14	311.36	283.22	MW
	06/02/03	28.59	311.36	282.77	MW
	03/10/03	31.09	311.36	280.27	MW

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
2 - Elevation indicates bottom-of-casing elevation.
3 - The well construction details for this well indicate that the bottom of the casing is 22.5' from the ground surface; however, this well also has 2.04' of casing above grade. Therefore, the bottom of casing elevation has been recalculated for this well to be 24.54' from the top of casing elevation.
MW- monitoring well
feet PLLW - feet above Presidio lower low water vertical datum



LEGEND

- Approximate Direction of Groundwater Flow
- Groundwater Contour (Contour Interval : 5 ft)
- Former Landfill 4 Excavation Boundary
- Topographic Contour (Contour Interval : 5 ft)

LF4GW104 279.30 — Groundwater Monitoring Well March 2006 Groundwater Elevations

* — LF4GW100, LF4GW101 and LF04GW03 were not used for groundwater contouring because they are screened in shallower lithologic units.

1335 — Building and Number

Notes:
Groundwater elevation data collected on 6 March 2006.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

LANDFILL 4 SITE PLAN AND 6 MARCH 2006 GROUNDWATER ELEVATION MAP

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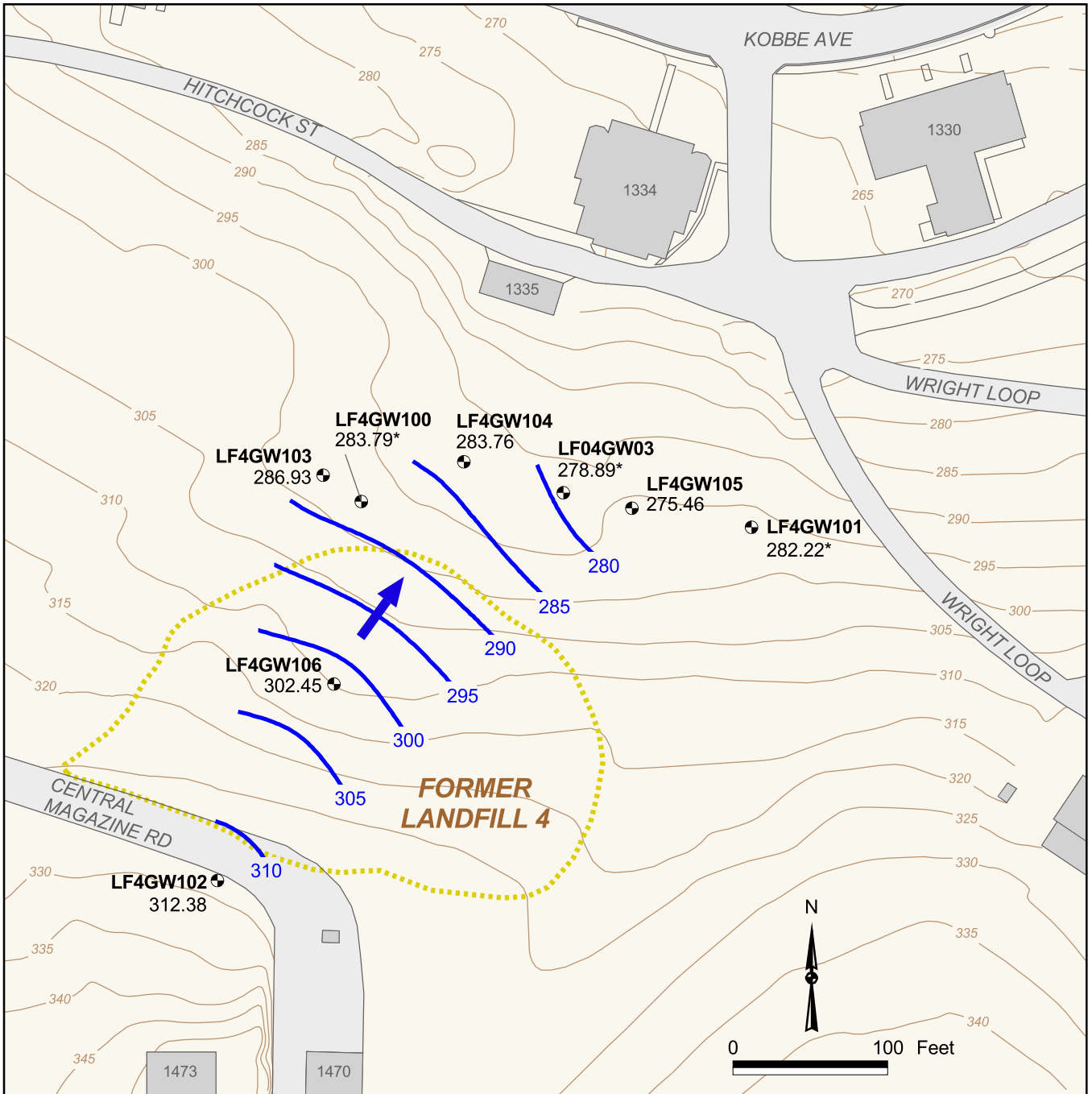
Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 561-5315
October 2006

FIGURE A-8-1



LEGEND

- Approximate Direction of Groundwater Flow
- Groundwater Contour (Contour Interval : 5 ft)
- Former Landfill 4 Excavation Boundary
- Topographic Contour (Contour Interval : 5 ft)
- **LF4GW104** 283.76 — Groundwater Monitoring Well May 2006 Groundwater Elevations
- * — LF4GW100, LF4GW101 and LF04GW03 were not used for groundwater contouring because they are screened in shallower lithologic units.
- 1335 — Building and Number

Notes:
Groundwater elevation data collected on 22 May 2006.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

LANDFILL 4 SITE PLAN AND 22 MAY 2006 GROUNDWATER ELEVATION MAP

Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 561-5315
October 2006

FIGURE A-8-2

First Quarter 2006

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 4 | Well No.: LF4GW103

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeJong | Sampled by: MMD | Date: 3/7/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 47.46

Depth to Water (WL, ft. below TOC): 21.30

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other: N/A

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate: <.5gpm

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI, Hach, Myron L

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1023	initial	7.50	13.8	Pre: 0.4	2781	—	44	clear
1026	1.5	7.41	14.2	—	2803	—	89	
1029	3	7.12	14.3	—	3500	—	47	
1032	4.5	7.13	14.3	—	3701	—	36	
1035	6	7.15	14.3	post: 0.4	3643	—	38	

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other: Baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/7/06 1040

Purging Equipment: Pump - Type: Bailer - Type: Disp Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF4GW103	2 NO AMBER	CTF	2104	
	1 NO LDPE			
	1 HNO3 500 poly			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
LF4GW103	Dup030706 3A @ 1045 (split)
LF4GW103	LF4GW103CL

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 4 | Well No.: LF4GW104

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John Doffy | Sampled by: MO | Date: 3/7/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 42.42

Depth to Water (WL, ft. below TOC): 18.44

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp

[ ] Normal [ ] Pump \ Type

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[X] Other N/A

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate ~.3gpm

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI, HACH, Myron L

Time / Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1203 / Initial	7.53	14.7	pre: 0.08	2134	—	20	clear
1206 / 0.9	7.45	14.7	—	2115	—	17	
1209 / 1.8	7.43	14.7	—	2133	—	44	
1212 / 2.7	7.38	14.9	post: 0.11	2247	—	50	
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/7/06 / 1220

Purging Equipment: Pump - Type | Bailer - Type: Disp | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF4GW104	2 VOA Amber/L	CFT	2104	
	1 X 1L poly	↓	↓	
	1 X 500 ml HNO3			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Second Quarter 2006

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 4 | Well No.: LF4GW103

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: D. Cornish | Sampled by: D. Cornish | Date: 5/25/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 47.50

Depth to Water (WL, ft. below TOC): 16.51

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate: .3 gpm | 9.0 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI DO

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
	/				pre. 3.49				
914	/	init	6.93	14.2	–	3695 µs	–	5.23	
917	/	1	6.95	14.2	–	3704 µs	–	18.5	
920	/	2	6.98	14.2	–	3705	–	18.9	
923	/	3	6.98	14.3	–	3707	–	14.4	
926	/	4	6.96	14.4	–	3707	–	13.9	
	/				post. 3.71				
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other onsite Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/25/06 / 930

Purging Equipment: Pump - Type: Bailer - Type: Disp. Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF4GW103	1x1L Poly NP	C&T	2153	
	1x500ml HNO3			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: LF4 | Well No.: LF4GW104

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Lorusch | Sampled by: P. Lorusch | Date: 5/25/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 43.92

Depth to Water (WL, ft. below TOC): 14.26

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.69
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Normal [X] Modified (max 5 gpm)

[X] Bailer \ Type: Disp. [ ] Pump \ Type [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft) [ ] Near Bottom Depth (ft) [ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate: 3gpm

4 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 00

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND ~~mS/cm~~	ORP (mV)	Turbidity (NTU)	Comments
/			pre. 2.40				
950 / init.	7.08	14.3	–	2362 µS	–	10.4	
953 / 1	6.99	14.0	–	2301	–	14.2	
956 / 2	7.01	14.3	–	2300	–	27.4	
959 / 3	7.01	14.4	–	2308	–	29.8	
1002 / 4	7.08	14.2	–	2322	–	28.8	
/			post. 2.40				
/							
/							
/							
/							
/							
/							
/							
/							

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other onsite Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/25/06 / 1015

Purging Equipment: Pump - Type | Bailer - Type: Disp. | Other

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF4GW104	1x1L Poly NP	CET	2153	
	1x500ml Poly HNO3			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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FILL SITE 5
APPENDIX SECTION A-9
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2006
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

Fill Site 5 (FS 5) is located in the western portion of the Presidio (Figure 1) between Lincoln Boulevard and Washington Boulevard, adjacent to the World War II Memorial (Figure A-9-1). The FS 5 site is approximately 270 to 320 feet above the PLLW datum.

FS 5 was reportedly used by the Army for the disposal of debris and municipal waste from approximately 1946 to 1981 (Dames & Moore, 1997), although historical aerial photographs indicate that the area was disturbed (non-vegetated) as early as 1935. FS 5 was reportedly used when inclement weather rendered disposal at Landfill 4 difficult. The site was used for disposal of building debris, fill dirt, landscape waste, and municipal waste. However, filling activities at FS 5 may have ceased as early as 1948, when a structure (former Building 1351) was erected.

No groundwater was encountered during the Army's RI activities at FS 5; thus no groundwater monitoring wells were installed (Dames & Moore, 1997). Montgomery Watson installed three wells (1349MW01, 1349MW02, and 1349MW03) in 1995 as part of the Army's investigation at the nearby Building 1349 area. The locations of these wells are shown on Figure A-9-1.

In July 2000, the Trust constructed two new groundwater monitoring wells (LF5GW100 and LF5GW101) in the presumed downgradient groundwater flow direction from FS 5 (Figure A-9-1).

In accordance with the RAP (Treadwell & Rollo, 2003e) and the Building 1349 Site Investigation (SI) (Treadwell & Rollo, 2003d), six new (1349MW100 through 1349MW102 and LF5GW102 through LF5GW104) and one replacement (1349MW03R) groundwater monitoring wells were installed in the vicinity of former FS 5. The original well 1349MW03 was abandoned prior to the beginning of remedial excavation at former FS 5. The FS 5 remedial action and Building 1349 SI are detailed below in Section 3.0 and also in Appendix A, Section A-5. Monitoring wells 1349MW01, 1349MW02, 1349MW03R and 1349MW100 through 1349MW102 are either within the former footprint of FS 5 or upgradient of FS 5 and therefore, these wells are included in the FS 5 groundwater monitoring plan. Conversely, monitoring wells 1349MW103 through 1349MW105 are located on the opposite side, when compared to Fill Site 5, of the topographic high point associated with the Building 1349 Area. The groundwater flow direction in this area varies from the northeast to the northwest and away

from FS 5, therefore, these wells (1349MW103 through 1349MW105) are not included in the FS 5 groundwater monitoring plan.

Since the Second Quarter 2001, all FS 5 and the associated Building 1349 wells, which are within or directly upgradient of the former FS 5 footprint, have been sampled and analyzed for general chemistry parameters, TPH, VOCs, OCPs, PCBs, PAHs, chlorinated herbicides, dissolved metals and TDS. Summaries of previous analytical results are presented in Tables A-9-1 through A-9-7.

2.0 SITE DESCRIPTION AND GEOLOGY

Materials encountered while drilling soil borings for installation of LF5GW103, LF5GW104, and 1349MW03R consisted of clayey to silty sand of the Colma Formation to depths ranging between 7.5 to 13.5 feet bgs over Franciscan complex serpentinite to the maximum explored depths ranging between 23.5 and 36 feet bgs. Materials encountered while drilling soil boring LF5GW102, although similar to the other soil borings, included dune sand from the ground surface to a depth of 5.5 feet bgs, and silty sand Colma Formation to a depth of 26 feet bgs over Franciscan complex serpentine to the maximum depth explored of 40 feet bgs. Saturated soils were encountered at approximately 11 feet bgs in the boring for LF5GW103 to 26 feet bgs in the soil boring for LF5GW102.

Well LF5GW102 is located near the southern boundary of the excavated area (Figure A-9-1). Wells LF5GW103 and LF5GW104 are located within the excavated portion of former FS 5 along the western border. In addition, previously existing well 1349MW03, which was located within the footprint of the FS 5 fill material, was abandoned prior to remedial excavation activities and was replaced with well 1349MW03R. The new location was approximately 60 feet south, further within the footprint of the excavated area, in close proximity to an inferred fault (Figure A-9-1). These wells are generally screened within the Franciscan complex serpentinite, as are wells 1349MW100 and 1349MW101.

Surface and groundwater at FS 5 flows in a southwesterly direction towards Baker Beach in the Coastal Bluffs Groundwater Basin. Depth to groundwater beneath FS 5 ranges from 5 to 33 feet bgs (Table A-9-8). All of the wells at FS 5 and monitoring wells 1349MW01, 1349MW02, 1349MW03R and 1349MW100 through 1349MW102 are located in the Coastal Bluffs Groundwater Basin.

Additionally, groundwater elevation measurements from wells 1349MW103 through 1349MW105 indicate that groundwater in this area flows northeasterly to northwesterly within the Marina Groundwater Basin. Monitoring wells 1349MW103 through 1349MW105 are discussed in Section A-5 and will not be discussed further in this section.

3.0 REMEDIAL ACTION

The *Remedial Action Plan and Evaluation of Alternatives for Landfill 4 and Fill Site 5* (RAP) was prepared and approved during Third Quarter 2002 (Treadwell & Rollo, 2002e). The RAP selected excavation, recycling, and offsite disposal of all fill material and impacted underlying soils, along with groundwater monitoring, as the FS 5 remedial alternative. Under the remedial alternative, all fill material and contaminated soil with constituent concentrations above the cleanup criteria was removed and disposed of offsite at an approved disposal facility. The removal action at FS 5 began in February 2003 and was completed in September 2004.

Additional soil sampling to complete the soil cleanup activities at FS 5 has been completed and documented in the *Draft Construction Completion Report Landfill 4 and Fill Site 5* (CCR) which was submitted for stakeholder review in the Fourth Quarter 2004 (Treadwell & Rollo, 2004e). Between 7 February and 25 April 2003, a total of 12,393 tons of waste material was removed from the former FS 5 site, with an approximate additional 40 cubic yards of Class II waste removed in September 2004. Approximately 90 percent of the fill material was disposed at Class II and Class III disposal sites and the remainder as Class I California Hazardous Waste. Soil confirmation sample concentrations or 95% UCL calculations for all compounds tested (both COC and non-COC compounds) determine that the site soil conditions meet the goals presented in the RAP and that the site is suitable for unrestricted use. Based on the remedial activities conducted, field observations, established cleanup levels, and a review and evaluation of the confirmation sampling results, LF 4 and FS 5 are recommended for construction completion. The sites are available for unrestricted use. Groundwater monitoring will continue per the RAP for three years to confirm that applicable cleanup levels are not exceeded (Treadwell & Rollo, 2002f).

During remedial activities at FS 5, an underground storage tank (UST) was discovered, removed, and off-hauled (Figure A-9-1). The details of the UST removal can be found in the *Draft Underground Storage Tank Closure Report Former Building 1351*, which is included as an appendix to the *Draft Construction Completion Report Landfill 4 And Fill Site 5*, (Treadwell & Rollo, 2003e). Soil confirmation sample concentrations and/or 95% UCL calculations for compounds tested (both COC and non-COC compounds) indicated that the site conditions meet the goals presented in the RAP.

Based on discussions with DTSC on 19 February 2004 and the Trust's letter to DTSC regarding *Landfill 4 and Fill Site 5 Exceedance Follow-up* dated 17 May 2004, the Trust performed additional sampling at Fill Site 5 on 8 July 2004. The purpose of the additional sampling was to confirm the zinc cleanup level exceedance in the duplicate sample DUP031003A. Sample DUP031003A was collected at a depth of 0.5 feet adjacent to sample FS5EX112[0.5] and had a zinc exceedance as well as detectable levels of cadmium and silver. The previous FS5EX112[0.5] sample location was located using the Trust's Trimble GPS unit. Additional confirmation samples (FS5EX162) were collected at 0.5-, 1-, 1.5- and 2-foot depths. Confirmation sample results for FS5EX162[0.5] and duplicate sample DUP070804B (collected at 1-foot bgs), exceeded the cleanup level of 160 µg/kg.

Additional excavation was completed at sample location FS5EX162. This area was excavated to a depth of 1 foot bgs on 1 September 2004 and confirmation soil samples were collected on 2 September 2004 and submitted for zinc analysis. The additional confirmation sample results were all below the zinc cleanup level of 160 mg/kg indicating that the site is available for unrestricted land use. The results of this sampling are detailed in the CCR (Treadwell & Rollo, 2004e).

Between 9 and 23 April 2003, approximately 5,604 cubic yards of imported backfill material (Letterman Colma Backfill Soil) was delivered to the site. The source for the FS 5 imported material was the Letterman redevelopment project Colma excavation spoils.

In accordance with the California Code of Regulations, Title 27, Subchapter 3, Section 20390, a site that has undergone clean closure (where all wastes, residues, contaminated subsoil, and other contaminated materials are removed or decontaminated at closure) must be shown to comply with the water quality protection standard or the cleanup levels presented in Section 3 of the RAP for three years. A complete table of cleanup levels for compounds in groundwater applicable to the FS 5 monitoring wells is presented in Table 3-11 of the RAP and is included in this section.

Following the removal action, four new monitoring wells (1349MW03R and LF5GW102 through LF5GW104) were installed and added to this groundwater monitoring program at locations shown on Figure A-9-1. The new FS 5 wells were first sampled in the Second Quarter 2003 and will be sampled quarterly for a minimum of three years in accordance with the RAP.

During Phase 1 of the Building 1349 SI (Treadwell & Rollo, 2003d), monitoring well 1349MW100 was installed upgradient of FS 5. Phase 2 of the Building 1349 SI occurred during the FS 5 excavation activities and wells 1349MW101 and 1349MW102 were installed at the upgradient edge of the former FS 5 footprint to provide upgradient groundwater elevation and chemistry information for FS 5 and therefore, the cleanup levels specified in the RAP apply to wells 1349MW101 and 1349MW102.

Building 1349 monitoring wells 1349MW01, 1349MW02 and 1349MW100 are not located within, but are upgradient of the former FS 5 footprint. Therefore, the cleanup levels specified in the RAP do not apply to monitoring wells 1349MW01, 1349MW02 and 1349MW100.

Treadwell & Rollo sampled the imported Letterman Colma Backfill Soil (Colma Fill) at Fill Site 5 for OCPs in accordance with the *Field Sampling Plan to Evaluate Possible Chlordane in Letterman Colma Backfill Soil* dated 28 February 2006. The purpose of the soil sampling was to characterize the Colma Fill at Fill Site 5 for the occurrence of chlordane above site specific soil cleanup levels. The analytical results of this sampling are currently pending.

4.0 GROUNDWATER MONITORING

FS 5 has five monitoring wells (LF5GW100 through LF5GW104) and the Building 1349 Area has six monitoring wells (1349MW01, 1349MW02, 1349MW03R and 1349MW100 through 1349MW102) associated with the FS 5 groundwater monitoring plan (Figure A-9-1). Groundwater elevations were collected at all FS 5 and associated Building 1349 Area wells during the First and Second Quarters 2006.

During the First Quarter 2006, groundwater samples were collected from all FS 5 and associated Building 1349 Area monitoring wells and FS 5 seep location LF5SP100, in accordance with Table 1A. During the Second Quarter 2006, groundwater samples were collected from monitoring well1349MW100, in accordance with Table 1B.

FS 5 seep location LF5SP100 was not flowing on 22 May 2006 at the time of water level measurements. Building 1349 Area monitoring well results are also discussed in Appendix A-5.

4.1 Groundwater-Level Measurements and Interpretation

Groundwater elevation measurements were collected on 6 March and 22 May 2006. Groundwater elevations are recorded in Table A-9-8. Water level meters were calibrated on 6 March and 22 May 2006 and the calibration logs can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C.

During the First Quarter 2006, the groundwater elevations ranged from 223.47 to 287.04 feet above PLLW in monitoring wells LF5GW100 and 1349MW101, respectively (Figure A-9-1). Several monitoring wells (LF5GW102 through LF5GW104, 1349MW01, 1349MW02, 1349MW03R, 1349MW100, and 1349MW102 through 1349MW105) had new high groundwater elevations measured during the First Quarter 2006. During the Second Quarter 2006, groundwater elevations ranged from 221.20 to 292.12 in monitoring wells LF5GW100 and 1349MW101, respectively (Figure A-9-2). Several monitoring wells (LF5GW102, LF5GW103, 1349MW01, 1349MW02, 1349MW03R, and 1349MW100 through 1349MW105) had new high groundwater elevations measured during the Second Quarter 2006. The new high groundwater elevations during the First and Second Quarters 2006 can likely be attributed to the large amount of rainfall received throughout the winter.

Groundwater elevation maps showing the First and Second Quarter 2006 groundwater contours and flow direction for FS 5 are included as Figures A-9-1 and A-9-2, respectively. During both quarters, groundwater flow was in a southwesterly direction, following the general topographic trend. During the First and Second Quarter 2006, the groundwater gradient was estimated to be approximately 0.10 and 0.11 feet per foot, respectively. Groundwater flow directions and gradients are consistent with those previously found at the site.

4.2 Monitoring Well Purging and Sampling

During the First and Second Quarters 2006, the FS 5 monitoring wells and associated Building 1349 Area monitoring wells scheduled for sampling were purged and sampled using methods shown in Tables 1A and 1B, in accordance with procedures described in the FSP (Treadwell & Rollo, 2001a). During the Second Quarter 2006, only 1349MW100 and 1349MW102 were scheduled for sampling.

Purge equipment, purging volumes, purge water general chemistry parameters, and sampling equipment for each monitoring well are described in the purge records located at the conclusion of this section. Purge water was stored for future disposal in one of two 2,800-gallon aboveground polyethylene storage tanks, which are located at the Central Magazine.

4.3 Groundwater Analytical Program

All groundwater samples collected were submitted to the project laboratory for the analyses shown in Tables 1A and 1B of the main text. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are described in Table 5. Sample containers used for each well are described in the purge records located at the conclusion of this section.

QA/QC samples were collected as part of this program. Section 6.2 of the main text discusses the QA/QC sampling and analysis performed this quarter.

5.0 GROUNDWATER ANALYTICAL RESULTS

The groundwater samples collected from FS 5 monitoring wells during the First Quarter 2006 were analyzed for general chemistry, TDS, OCPs, VOCs, PAHs, PCBs, TPHg, TPHd, TPHfo, and 23 dissolved metals. Groundwater samples collected from FS 5 associated monitoring well 1349MW100 during the Second Quarter 2006 was analyzed for general chemistry, TDS, OCPs, VOCs, PAHs, TPHg, TPHd, TPHfo, and 23 dissolved metals.

The TPHfo standard currently being used is a TPH as motor oil standard, as defined by the Presidio QAPP, with a carbon range of C_{24} to C_{36}. Section 5.4.3.1 in the main text discusses the data compatibility issues associated with TPH analyses.

Hexavalent chromium analysis was removed from the FS 5 groundwater monitoring schedule beginning with the Second Quarter 2003. Chromium primarily exists in three valence states in nature; chromium(0), trivalent chromium, and hexavalent chromium. Hexavalent chromium is more soluble than both chromium(0) and trivalent chromium and, therefore, the majority of dissolved chromium likely consists of hexavalent chromium.

Reduction to semi-annual sampling for VOCs and PAHs within FS 5 monitoring wells (LF5GW100 through LF5GW104) was approved in the Fourth Quarter 2004. This approval was granted because no RAP-specified cleanup levels have been exceeded in at least four quarters for any of these compounds within any FS 5 monitoring well samples. In addition, TPH, PAHs, VOCs, PCBs, chlorinated herbicides, general chemistry parameters, TDS, and dissolved metals met the post-remediation groundwater monitoring requirements and cleanup levels from the FS 5 RAP at 1349MW03R, 1349MW101, and 1349MW102 in the First Quarter 2006. Subsequently, the Trust requested cessation of these analytical compounds from the Groundwater Monitoring Program at FS 5/Building 1349 (including 1349MW03R, 1349MW101, and 1349MW102), prior to the Second Quarter 2006. These three wells will however be monitored in the future under the Building 1349 Area CAP upon its finalization.

5.1 Dissolved Oxygen

Dissolved oxygen results are presented in Table A-9-1. Dissolved oxygen concentrations measured during the First Quarter 2006 in monitoring wells associated with FS 5 ranged from 0.15 mg/L in well 1349MW102 to 8.15 mg/L in seep LF5SP100. The dissolved oxygen concentrations within 1349MW102 and seep LF5SP100 are new low and high concentrations. As part of low flow sampling techniques and as recommended in the *Technical Memorandum, Evaluation of Arsenic and Other Metals in Groundwater at Three Corrective Action Plan Sites, Presidio of San Francisco, San Francisco, California* (MACTEC, June 2006), ORP, pH, and temperature were measured, and data are summarized in Table A-9-1.

The dissolved oxygen concentration within well 1349MW100 was 1.1 mg/L during the Second Quarter 2006.

The majority of dissolved oxygen concentrations measured during the First and Second Quarters 2006 were within the range of concentrations previously measured within FS 5 monitoring wells.

5.2 General Chemistry Results

General chemistry results are presented in Table A-9-1. Several FS 5 and associated Building 1349 Area wells had new high and/or low concentrations of general chemistry parameters during the First and Second Quarters 2006. However, these detections are typically only slightly higher or lower than the historical minimum or maximum, and can generally be attributed to natural fluctuations.

The table below summarizes new high and low general chemistry analytical results for the First and Second Quarters 2006 within the FS 5 and associated Building 1349 Area monitoring wells when compared to historical data, and provides the range and frequency of historical results.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
General Chemistry							
1349MW03R	Alkalinity, Total	11 / 11	330	390	--	440	mg/L
	Bicarbonate	11 / 11	330	390	--	440	mg/L
1349MW100	Chloride	16 / 16	810	1,500	760	--	mg/L
	Sulfate	12 / 16	< 0.5	37	--	65	mg/L
1349MW101	Chloride	10 / 10	190	300	180	--	mg/L
1349MW102	N as Nitrite	1 / 23	< 0.05 *	< 0.1 *	--	0.025	mg/L
	Sulfate	23 / 23	18 *	95	--	156	mg/L
LF5SP100	Alkalinity, Total	5 / 5	55	88	--	110	mg/L
	Bicarbonate	5 / 5	55	88	--	110	mg/L
	Nitrate	5 / 5	0.34	1.5 *	0.31	--	mg/L
1349MW01	Sulfate	24 / 24	161	262 *	--	300	mg/L
1349MW104	Dissolved Oxygen	6 / 6	0.32	3	0.08	--	mg/L
	Sulfate	6 / 6	55	67	--	74	mg/L
1349MW105	Alkalinity, Total	6 / 6	230	280	--	300	mg/L
	Bicarbonate	6 / 6	230	280	--	300	mg/L
	Chloride	6 / 6	540	760	450	--	mg/L
	Fluoride	6 / 6	0.33	0.63	0.29	--	mg/L
	Sulfate	6 / 6	130	150	76	--	mg/L
1349MW103	Alkalinity, Total	7 / 7	310	600	--	670	mg/L
	Bicarbonate	7 / 7	310	600	--	670	mg/L
	Chloride	7 / 7	790	830	--	930	mg/L
	Fluoride	7 / 7	0.31	0.66	0.29	--	mg/L

Qualified data in the table above is indicated with an asterisk (*).

The majority of the general chemistry parameters measured during the First and Second Quarters 2006 are within historical ranges. Significant new high and low general chemistry results are discussed below.

- Nitrite was detected at a new high concentration of 0.025 mg/L in the QA/QC sample from 1349MW102 during the First Quarter 2006. This is the first time nitrite has been detected within this well.

General chemistry parameters within FS 5 associated monitoring wells have remained relatively stable. The concentration fluctuations of general chemistry parameters within these FS 5 associated Building 1349 Area monitoring wells can likely be attributed to natural concentration fluctuations, and are not considered to be significant. However, increasing and decreasing trends, as well as the potential for new increasing or decreasing trends at the site will continue to be evaluated in future monitoring events.

5.3 TPH Results

TPH results are presented in Table A-9-2 and illustrated on Figure A-9-3. The table below summarizes new high and low TPH concentration for the First and Second Quarters 2006 within the FS 5 and associated Building 1349 Area monitoring wells when compared to historical data, and provides the range and frequency of historical results. Detected TPH compounds are discussed below.

The table below summarizes new high and low TPH analytical results for the First and Second Quarters 2006 within the FS 5 and associated Building 1349 Area monitoring wells when compared to historical data, and provides the range and frequency of historical results.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Total Petroleum Hydrocarbons							
LF5GW101	TPH As Diesel C12-C24	1 / 18	< 50	< 50	--	51 *	µg/L
LF5GW102	TPH As Diesel C12-C24	2 / 15	< 48	51 *	--	61 *	µg/L
LF5GW104	TPH As Diesel C12-C24	1 / 12	< 50	< 50	--	50 *	µg/L
1349MW01	TPH As Diesel C12-C24	2 / 29	< 50	57 *	--	79 *	µg/L
1349MW102	TPH As Diesel C12-C24	1 / 1	< 50	54	--	60 *	µg/L
1349MW104	TPH As Diesel C12-C24	1 / 6	< 50	< 50	--	55 *	µg/L
1349MW103	TPH As Diesel C12-C24	1 / 7	< 50	< 50	--	54 *	µg/L

Qualified data in the table above is indicated with an asterisk (*).

During the First Quarter 2006, TPHd was detected in FS 5 monitoring well LF5GW100 and the FS 5 associated monitoring well 1349MW102 duplicate sample at concentrations 52 µg/L and 60 µg/L, respectively. TPHd was detected in FS 5 monitoring wells LF5GW101 and LF5GW104 duplicate sample at qualified concentrations of 51 µg/L and 50 µg/L, respectively. This is the first time TPHd has been detected in either of these wells. TPHd was detected at new high concentrations within FS 5 monitoring well LF5GW102 and associated FS 5 monitoring well 1349MW01 at concentrations of 61 µg/L and 79 µg/L, respectively. All of these detections are well below the Fill Site 5 RAP-specified cleanup level of 880 µg/L. TPHg and TPHd were detected in FS 5 associated monitoring well 1349MW100 at concentrations of 1,300 and 6,900 µg/L, respectively.

During the Second Quarter 2006, TPHg was detected in the primary, duplicate and QC samples from 1349MW100 at concentrations of 690, 490, and 350 µg/L, respectively. TPHd was detected in the primary, duplicate and QC samples from 1349MW100 at concentrations of 3,600, 5,200, and 5,400, respectively. Fill Site 5 RAP-specified cleanup levels do not apply to monitoring well 1349MW100. Cleanup levels and exceedances associated with 1349MW100 are discussed in Section A-5.

No other TPH compounds were detected within any FS 5 associated monitoring wells. TPH concentrations at FS 5 have previously been non-detect with some isolated detections which were well below RAP cleanup levels. TPHg and TPHd concentrations within 1349MW100 at Building 1349 continue to fluctuate. The potential for increasing or decreasing TPH concentration trends at the site will continue to be evaluated in future monitoring events.

5.4 VOC Results

Results of VOC analyses are presented in Table A-9-3. No VOCs were detected at or above the laboratory detection limit in any FS 5 monitoring well samples during the First Quarter 2006. No VOCs were scheduled for analysis within FS 5 monitoring wells during the Second Quarter 2006. No VOCs have been detected within FS 5 monitoring wells since sampling began in July 2000. VOC detections at FS 5 associated Building 1349 Area monitoring wells are discussed below.

Benzene was detected within monitoring well 1349MW100 during the First Quarter 2006 at a concentration of 22 µg/L, and in the Second Quarter 2006 primary, duplicate, and QC samples at concentrations of 29, 28, and 30 µg/L, respectively. These concentrations exceed the Building 1349 Area cleanup level for benzene of 1 µg/L. Carbon disulfide was not detected within monitoring well 1349MW100 during the First Quarter 2006, but was detected in the primary and duplicate samples from monitoring well 1349MW100 during the Second Quarter 2006 at concentrations of 0.7 and 0.8 µg/L, respectively. This is the first detection of carbon disulfide since Second Quarter 2003. Ethylbenzene and total xylenes were both detected within monitoring well 1349MW100 during the First Quarter 2006 at a concentration of 0.8 µg/L. Ethylbenzene was detected within monitoring well 1349MW100 during the Second Quarter 2006 in the primary and duplicate samples at a concentration of 0.8 µg/L, and in the QC sample at a concentration 0.9 µg/L. Total xylenes were detected within monitoring well 1349MW100 during the Second Quarter 2006 at concentrations of 3.8, 3.7, and 4.2 µg/L in the primary, duplicate, and QC samples, respectively. The detected concentrations of ethylbenzene and total xylenes are well below their respective cleanup levels of 700 µg/L and 318 µg/L.

5.5 OCP and PCB Results

PCBs have not been detected within any FS 5 or associated Building 1349 Area monitoring well samples to date. No OCPs were detected during the First or Second Quarter 2006 in any FS 5 monitoring wells. Results of OCP and PCB analyses and FS 5 RAP cleanup levels are presented in Table A-9-4 and beta-BHC and gamma-BHC results are illustrated on Figure A-9-3. OCP detections within FS 5 associated monitoring well 1349MW100 at the Building 1349 Area are discussed below.

Several OCP compounds were detected within upgradient monitoring well 1349MW100 during the First and Second Quarters 2006.

During the First Quarter 2006, alpha-chlordane and gamma chlordane were detected at new high concentrations of 0.9 µg/L and 0.7 µg/L, respectively. 4,4'-DDD (0.9 µg/L), aldrin (0.3 µg/L), delta-BHC (0.1 µg/L), dieldrin (0.4 µg/L), heptachlor (0.8 µg/L), and heptachlor epoxide (0.2 µg/L) were detected within the range of historical concentrations of these compounds at this well. During the Second Quarter 2006, heptachlor epoxide was detected in the primary sample at a new high concentration of 0.4 µg/L and in the duplicate sample at a concentration of 0.3 µg/L. 4,4'-DDT was detected in the primary and duplicate samples at a concentration of 0.8 µg/L. Aldrin and alpha-chlordane were detected in the duplicate samples at concentrations of 0.3 and 0.8 µg/L, respectively.

The concentrations of dieldrin and heptachlor in the First Quarter 2006, exceeded the FS 5 RAP cleanup levels. However, the FS 5 RAP-specified cleanup levels do not apply to monitoring well 1349MW100. Cleanup levels and exceedances associated with 1349MW100 are discussed in Section A-5.

OCP concentrations continue to be non-detect within FS 5 monitoring wells, but fluctuate within Building 1349 Area monitoring well 1349MW100. The potential for increasing or decreasing OCP concentration trends at FS 5 and Building 1349 Area will continue to be evaluated in future monitoring events.

5.6 PAH Results

PAHs were not detected during the First Quarter 2006 within any FS 5 monitoring well samples. PAHs were not scheduled for analysis during the Second Quarter 2006. PAH analytical results and FS 5 RAP cleanup levels are included in Table A-9-5.

Several PAH compounds were detected within upgradient monitoring well 1349MW100 during the First and Second Quarters 2006.

During the First Quarter 2006, acenaphthene (6.6 µg/L), anthracene (0.36 µg/L), benzo(a) anthracene (0.35 µg/L), chrysene (0.29 µg/L), fluoranthene (2.3 µg/L), fluorene (2.3 µg/L), phenanthrene (9 µg/L), and pyrene (0.75 µg/L) were detected at concentrations within the range of historical concentrations of these compounds at this well. During the Second Quarter 2006 in the primary, duplicate and QC samples, acenaphthene was detected at concentrations of 3.6, 4.3, and 5.6 µg/L, respectively. Anthracene was detected at concentrations of 0.2, 0.28, and 0.24 µg/L, respectively. Benzo(a) anthracene was detected at concentrations of 0.11, 0.14, and 0.48 µg/L, respectively. Fluoranthene was detected at concentrations of 1.6, 1.8, and 0.38 µg/L, respectively. Fluorene was detected at concentrations of 7.5, 8.4, and 4.0 µg/L, phenanthrene was detected at concentrations of 4.9, 5.8, and 3.5 µg/L, respectively, and pyrene was detected at concentrations of 0.38, 0.48, and 0.44 µg/L. These detected concentrations were within the range of historical concentrations within this well. PAHs were not detected in any of the other FS 5 or Building 1349 Area samples during the First or Second Quarters 2006.

The concentrations of benzo(a)anthracene in the First and Second Quarters 2006, exceeded the cleanup levels taken from the FS 5 RAP for FS 5 monitoring wells. However, the FS 5 RAP-specified cleanup levels do not apply to monitoring well 1349MW100. Cleanup levels and exceedances associated with 1349MW100 are discussed in Section A-5.

5.7 Dissolved Metals Results

Dissolved metal concentrations detected within FS 5 and associated Building 1349 Area groundwater samples during the First and Second Quarters 2006 were generally within the range of concentrations previously detected. Total and dissolved metals results, along with RAP-specified cleanup levels, are presented in Table A-9-7. Arsenic, chromium, and iron results are also shown on Figure A-9-3. Seep LF5SP100 was analyzed for total and dissolved metals during the First Quarter 2006.

The following table summarizes new high and low dissolved metal analytical results for the First and Second Quarters 2006 within the FS 5 and associated Building 1349 Area locations when compared to historical data, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date sampling commenced, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Metals, Dissolved							
1349MW03R	Total Dissolved Solids	12 / 12	360	1,980	--	2,060	mg/L
1349MW100	Magnesium	14 / 14	190,000	390,000	180,000 *	--	µg/L
	Selenium	1 / 14	< 5	< 5	--	10	µg/L
	Total Dissolved Solids	16 / 16	1,820	5,570	510	--	mg/L
1349MW101	Calcium	10 / 10	16,000	36,000	15,000	--	µg/L
	Potassium	10 / 10	2,200	9,800	1,700 *	--	µg/L
1349MW102	Aluminum	1 / 18	< 100 *	< 100 *	--	260	µg/L
	Arsenic	2 / 18	< 5	7.3	< 2 *	--	µg/L
	Arsenic	2 / 18	< 5 *	7.3	< 2 *	--	µg/L
	Cobalt	1 / 18	< 7	1.4	< 1 *	--	µg/L
	Selenium	1 / 16	< 5	< 5	--	2.3	µg/L
LF5GW100	Total Dissolved Solids	24 / 24	730	970	--	1,040	mg/L
LF5GW102	Calcium	15 / 15	2,300	15,000	2,100	--	µg/L
LF5GW103	Calcium	13 / 13	24,000 *	29,000	23,000	--	µg/L
LF5GW104	Barium	13 / 13	45	120	--	130	µg/L
	Chromium	13 / 13	31	37	--	40	µg/L
	Iron	6 / 13	< 100	140	--	160	µg/L
	Mercury	1 / 11	< 0.2	< 0.2	--	0.625	µg/L
	Nickel	1 / 13	< 20	< 20	--	4.8	µg/L
	Selenium	1 / 13	< 5	< 5	--	2.9	µg/L

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Metals, Dissolved							
LF5SP100	Barium	2 / 2	24	24	--	42	µg/L
	Calcium	2 / 2	8,600	8,600	--	13,000	µg/L
	Copper	2 / 2	3.6	3.6	3.5	--	µg/L
	Iron	2 / 2	400	400	220	--	µg/L
	Magnesium	2 / 2	9,900	9,900	--	20,000	µg/L
	Potassium	2 / 2	2,400	2,400	--	3,000	µg/L
	Sodium	2 / 2	25,000	25,000	--	43,000	µg/L
1349MW01	Barium	17 / 17	34	620	32	--	µg/L
	Barium	17 / 17	34 *	620	32	--	µg/L
1349MW104	Barium	6 / 6	35	78	--	100 *	µg/L
	Iron	6 / 6	190	410	180 *	--	µg/L
1349MW105	Antimony	6 / 6	1.5	4.5	1.4	--	µg/L
	Calcium	6 / 6	71,000	86,000	56,000	--	µg/L
	Iron	6 / 6	360	600	130	--	µg/L
	Magnesium	6 / 6	150,000	180,000	140,000	--	µg/L
	Sodium	6 / 6	120,000	200,000	110,000	--	µg/L
1349MW103	Barium	4 / 7	< 10	21	--	26 *	µg/L
	Magnesium	7 / 7	190,000	320,000	--	330,000	µg/L
	Potassium	7 / 7	5,600	13,000	5,400 *	--	µg/L
	Total Dissolved Solids	7 / 7	1,320	1,650	--	2,220	mg/L
1349MW02	Cadmium	1 / 22	< 1	< 1	--	1.1	µg/L

Qualified data in the table above is indicated with an asterisk (*).

The majority of the dissolved metals concentrations measured during the First and Second Quarters 2006 are within historical ranges. Significant new high and low dissolved and total metals results are discussed below.

- During the First Quarter 2006, dissolved aluminum was detected in the duplicate sample from monitoring well 1349MW102 at a concentration of 260 µg/L and dissolved selenium was detected at a concentration of 2.3 µg/L in the QA sample. Aluminum and selenium have not previously been detected within this well.

- Dissolved cadmium was detected above the laboratory reporting limit at a concentration of 1.1 µg/L within monitoring well 1349MW02 during First Quarter 2006. Cadmium has not been detected within this well in previous sampling events.

- Dissolved chromium was detected in monitoring wells LF5GW101 and 1349MW03R during the First Quarter 2006 at concentrations of 53 and 120 µg/L, respectively. Chromium concentrations within 1349MW03R have exceeded the FS 5 RAP cleanup level of 50 µg/L since the Fourth Quarter 2004.

- Dissolved mercury, nickel, and selenium were detected at concentrations of 0.625, 4.8, and 2.9 µg/L in the QA sample from monitoring well LF5GW104 during the First Quarter 2006. The mercury detection exceeds the FS 5 RAP cleanup level of 0.012 µg/L. None of these metals have been detected within this well in previous sampling events.

- Dissolved selenium was detected in monitoring well 1349MW100 at a concentration of 10 µg/L, during First Quarter 2006. Monitoring well 1349MW100 is located upgradient of FS 5 and therefore, FS 5 RAP cleanup levels do not apply.

Dissolved chromium continues to exceed the FS 5 RAP cleanup levels within monitoring wells LF5GW101 and 1349MW03R. The FS 5 and associated Building 1349 Area monitoring wells are all screened in serpentinite with the exception of 1349MW01 which is screened in mélange containing serpentinite fragments. Based on the *Technical Memorandum Regarding the Hexavalent Chromium in Serpentinite Bedrock and Groundwater in Upland Areas* (Montgomery Watson, 1999o) and the *Memorandum Regarding the Natural Occurrence of Hexavalent Chromium in Surface Water and Groundwater at the Presidio of San Francisco, California* (EKI, 2000c), hexavalent chromium and dissolved chromium in groundwater in upland areas of the Presidio appear to be naturally occurring and derived from serpentinite. FS 5 and the associated Building 1349 Area are underlain by greenstone and serpentinite. There is no known anthropogenic chromium source associated with Building 1349 which lies upgradient of FS 5. Chromium was not a soil COC at FS 5. Thus, hexavalent chromium and dissolved chromium appear to be naturally occurring and are not considered COCs in groundwater at FS 5.

The dissolved aluminum and selenium detections within monitoring well 1349MW102, dissolved cadmium within monitoring well 1349MW02, and the dissolved mercury, nickel, and selenium detections within monitoring well LF5GW104 in the First Quarter 2006 are first time occurrences and do not yet represent a trend. Additional sampling for these analytes is required during future sampling events to determine whether these results are anomalous.

- Total barium, calcium, cobalt, lead, magnesium, manganese, mercury, nickel, thallium, vanadium, and zinc were all detected at new high concentrations in the First Quarter 2006 LF5SP100 seep sample. Copper was detected at a new low concentration in the First Quarter 2006 LF5SP100 seep sample.

In general, dissolved and total metals concentrations within the site have remained relatively stable, though clear trends are not yet apparent for seep LF5SP100, where only three sampling events have occurred and results continue to fluctuate. The potential for increasing or decreasing metals concentration trends at the site will continue to be evaluated in future monitoring events.

6.0 CONCLUSIONS & RECOMMENDATIONS

No PCBs were detected above their respective RAP-specified cleanup levels within any FS 5 or associated Building 1349 Area monitoring wells during the First or Second Quarters 2006.

Several OCP, PAH, and TPH compounds were detected in the upgradient Building 1349 monitoring well 1349MW100 samples during the First and Second Quarters 2006. FS 5 RAP cleanup levels do not apply to upgradient Building 1349 monitoring wells.

Per the FS 5 RAP, the reduction to semi-annual sampling for VOCs and PAHs within FS 5 monitoring wells (LF5GW100 through LF5GW104) was approved in the Fourth Quarter 2004 because no RAP-specified cleanup levels have been exceeded in at least four quarters for any of these compounds within any FS 5 monitoring well samples. In addition, TPH, PAHs, VOCs, PCBs, chlorinated herbicides, general chemistry parameters, TDS, and dissolved metals met the post-remediation groundwater monitoring requirements and cleanup levels from the FS 5 RAP within 1349MW03R, 1349MW101, and 1349MW102 in the First Quarter 2006. Subsequently, the Trust requested cessation of these analytical compounds from the Groundwater Monitoring Program at FS 5/Building 1349 (including 1349MW03R, 1349MW101, and 1349MW102), prior to the Second Quarter 2006. These three wells will however be monitored in the future under the Building 1349 Area CAP upon its finalization.

Table 3-11
Soil and Groundwater Cleanup Levels for Fill Site 5
The Presidio of San Francisco, California

Potential Contaminant of Concern	Effective Soil Cleanup Level (mg/kg)	Human Health Residential Soil Cleanup Level[a] (mg/kg)	Effective Groundwater Cleanup Level (mg/L)
	Serpentinite	Serpentinite	
Inorganic Chemicals			
Antimony	5	29	6
Arsenic	5.4	5.4	50
Barium	320	5,000	1,000
Beryllium	10	140	4
Cadmium	1.9	1.9	1.1
Chromium III	--	--	50
Chromium VI	--	--	11
Chromium (Total)	1,700	1,700	50
Cobalt	170	4,000	--
Copper	85	--	11.8
Cyanide	2,500	1,000	*5.2*
Lead	160	400	3.2
Mercury	0.4	20	*0.2*
Molybdenum	11.5	360	--
Nickel	4,500	4,500	100
Selenium	0.5	360	5.0
Silver	2	360	4.1
Thallium	1	5.7	2
Vanadium	74	650	-
Zinc	160	22,000	106
Semivolatile Organic Compounds			
Acenaphthene	16	2,700	--
Acenaphthylene	30	--	--
Anthracene	2.9	14,000	770
Benzo(a)anthracene	0.38	0.27	0.1
Benzo(a)pyrene	0.038	0.027	0.2
Benzo(b)fluoranthene	0.38	0.27	0.2
Benzo(g,h,i)perylene	5.3	--	50
Benzo(k)fluoranthene	0.38	0.27	2
Benzyl Alcohol	1	14,000	--
Bis(2-ethylhexyl)phthalate	160	--	--
Chrysene	3.8	2.7	20
Dibenzo(a,h)anthracene	0.11	0.078	--
Dibenzofuran	2,200	910	--
Fluoranthene	30	1,800	300
Fluorene	5.1	1,800	300
Indeno(1,2,3-c,d)pyrene	0.38	0.27	--
2-methylnaphthalene	0.25	--	--
2-methylphenol (o-Cresol)	--	--	--
3,4-methylphenol (m- and p-Cresol)	50	260	--
Naphthalene	1.7	910	300
n-dotriacontane	--	--	--
n-hentriacontane	--	--	--
n-nitrosodiphenylamine	20	43	--
n-triacontane	--	--	--
Pentachlorophenol	3	5	--
Phenanthrene	11	--	230
Phenol	0.076	27,000	--
Polycyclic Aromatic Hydrocarbons			
Pyrene	30	1,400	230

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Soil and Groundwater Cleanup Levels for Fill Site 5
The Presidio of San Francisco, California

Potential Contaminant of Concern	Effective Soil Cleanup Level (mg/kg)	Human Health Residential Soil Cleanup Level[a] (mg/kg)	Effective Groundwater Cleanup Level (mg/L)
	Serpentinite	Serpentinite	
Volatile Organic Compounds			
Acetone	0.24	43	--
Bromodichloromethane	0.025	--	--
2-butanone (MEK)	3.8	590	--
Carbon Disulfide	670	250	--
Carbon Tetrachloride	0	--	0.5
Chlorodibromomethane	--	--	80
Chlorobenzene	3	--	70
Chloroform	0.079	--	80
Chloromethane	0.42	--	--
1,4-dichlorobenzene	0.13	0.13	75
1,2-dichloroethane	0.006	--	0.5
Methylene Chloride	0.076	0.86	5
Tetrachloroethylene	0.15	--	5
1,1,1-trichloroethane	8.0	76	200
Trichloroethene	0.40	--	5
Trichlorofluoromethane	120	40	--
PCBs, Pesticides, and Herbicides			
PCBs (Aroclor 1254)	0.033	0.16	*0.5*
Aldrin	0.0039	0.029	--
alpha-BHC	0.062	0.18	--
beta-BHC	0.062	0.32	--
delta-BHC	0.062	0.18	--
Chlordane	0.009	0.37	*0.25*
2,4-D	0.025	620	--
4,4'-DDD	0.049	2.0	--
4,4'-DDE	0.098	1.4	--
4,4'-DDT	0.0082	1.4	*0.05*
Dicamba	0.01	1,800	--
Dieldrin	0.039	0.030	--
Endosulfan	1.1	370	0.056
Endosulfan Sulfate	1.1	370	0.056
Endrin	0.004	18	0.056
Endrin Aldehyde	0.0035	18	*0.1*
Endrin Ketone	0.004	18	*0.1*
gamma-BHC (Lindane)	0.01	0.44	*0.05*
gamma-Chlordane	0.009	0.37	--
Heptachlor	0.017	0.12	*0.025*
Heptachlor Epoxide	0.017	0.088	*0.025*
Isodrin	0.0039	0.029	--
MCPP	5.0	--	--
Methoxychlor	0.44	310	40
Petroleum Hydrocarbons			
TPH (as gasoline) (C7 - C12)	610	1,030	443
TPH (as diesel) (C12-C24)	700	1,380	880
TPH (as fuel oil) (C24-C36)	980	1,900	1,200
BTEX Compounds			
Benzene	0.045	0.6	1
Ethylbenzene	2.5	840	700
Toluene	2.6	530	150
Total Xylenes	1.0	1,080	318

Notes
a Residential cleanup levels do not apply to this site; they are included only for reference.
Italics indicate compounds for which the cleanup level is below the laboratory detection limit and the detection limit therefore serves as the cleanup level.

Table A-9-1
Results of General Chemistry Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
LF5GW100	03/09/06	420	420	310	1.4	< 0.1	2.6	< 0.05	NA	34	55.1	6.24	14.1
	08/30/05	410	410	290	0.9	< 0.1 UJ	2.5	< 0.05 UJ	NA	33	NR	NR	NR
	05/26/05	410	410	300	1.3	< 0.1	2.7	< 0.05	NA	33	NR	NR	NR
DUP0526051A	05/26/05	420	420	300	--	< 0.1	2.7	< 0.05	NA	33	NR	NR	NR
LF5GW100CL	05/26/05	419	419	355	--	< 0.3 U	2.7	< 1 U	NA	31.2	NR	NR	NR
	03/28/05	390	390	320	1.1	< 0.1	2.7	< 0.05	NA	33	NR	NR	NR
	12/16/04	460	460	330	0.9	< 0.1	2.7	< 0.05	NA	33	NR	NR	NR
DUP1216041A	12/16/04	480	480	330	--	< 0.1	2.7	< 0.05	NA	33	NR	NR	NR
	08/12/04	440	440	320	0.5	< 0.1	2.6	< 0.05	NA	32	NR	NR	NR
	05/26/04	390	390	320	0.7	< 0.1	2.6	< 0.05	NA	33	NR	NR	NR
	03/15/04	410	410	330	0.8	< 0.1	2.7	< 0.05	NA	35	NR	NR	NR
	12/04/03	430	430	330	0.9	< 0.1	2.7	< 0.05	NA	34	NR	NR	NR
	08/14/03	430	430	310	0.35	< 0.1	2.6 b,J-	< 0.05 UJ	NA	35	NR	NR	NR
	06/05/03	430	430	330	0.7	< 0.1	2.8	< 0.05	NA	33	NR	NR	NR
	12/04/02	400	400	330	0.72	< 0.1	2.7	< 0.05	NA	32	NR	NR	NR
	08/29/02	410	380	330	0.45	< 0.1	2.8	< 0.25	NA	35	NR	NR	NR
	05/30/02	430	430	340	0.53	0.08 J	2.8	< 0.05	NA	35	NR	NR	NR
	03/06/02	420	420	340	0.88	0.082 J	2.8	< 0.05	NA	34	NR	NR	NR
	11/28/01	460	460	320	0.61	0.062 J	2.8	< 0.05	NA	34	NR	NR	NR
	08/30/01	440	440	340	0.83	0.08 J	2.8	< 0.05	NA	35	NR	NR	NR
	05/10/01	400	400	260	4.7	0.08 J	4.3	< 0.05	NA	28	NR	NR	NR
LF5GW100CL	05/10/01	380	NA	280	--	NA	4.3 [2]	NA	NA	28	NR	NR	NR
	07/21/00	360	360	300	NM	NA	NA	NA	NA	30	NR	NR	NR
LF5GW101	03/09/06	390	390	250	1.8	< 0.1	3.8	< 0.05	NA	29	218.8	6.08	13.9
	12/02/05	NA	NA	NA	1	NA	NA	NA	NA	NA	NR	NR	NR
	08/30/05	410	400	230	1	< 0.1 UJ	3.8	< 0.05 UJ	NA	29	NR	NR	NR
	05/26/05	400	400	240	0.7	< 0.1	4	< 0.05	NA	30	NR	NR	NR
	03/28/05	390	390	270	0.91	< 0.1	4.1	< 0.05	NA	27	NR	NR	NR
	12/16/04	420	420	270	0.7	< 0.1	4.2	< 0.05	NA	30	NR	NR	NR
	08/12/04	410	410	250	0.7	< 0.1	4.1	< 0.05	NA	29	NR	NR	NR
	05/26/04	370	370	260	0.4	< 0.1	3.9	< 0.05	NA	29	NR	NR	NR
	03/15/04	390	390	270	0.8	< 0.1	4.2	< 0.05	NA	30	NR	NR	NR
	12/04/03	410	410	260	0.9	< 0.1	4.2	< 0.05	NA	29	NR	NR	NR
	08/14/03	430	430	250	0.71	< 0.1	3.9 b,J-	< 0.05 UJ	NA	30	NR	NR	NR
	06/05/03	380	380	270	0.9	< 0.1	4.3	< 0.05	NA	29	NR	NR	NR

Table A-9-1
Results of General Chemistry Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
LF5GW101	12/04/02	360	360	260	0.66	< 0.1	4.1	< 0.05	NA	29	NR	NR	NR
	08/29/02	410	410	270	0.69	< 0.1	4.3	< 0.25	NA	30	NR	NR	NR
	05/30/02	390	390	290	0.83	0.081 J	4.3	0.02 J	NA	31	NR	NR	NR
	03/06/02	380	380	280	1.15	0.072 J	4.3	< 0.05	NA	27	NR	NR	NR
	11/28/01	390	390	270	1.01	0.08 J	4.3	< 0.05	NA	28	NR	NR	NR
	08/30/01	370	370	270	1.06	0.086 J	4.3	< 0.05	NA	27	NR	NR	NR
	05/10/01	430	430	340	4.5	0.33	2.7	< 0.05	NA	33	NR	NR	NR
	07/21/00	430	430	400	NM	NA	NA	NA	NA	42	NR	NR	NR
LF5GW102	03/09/06	310	190	220	0.22	< 0.1	0.49	0.1	NA	22	NM	8.99	13.8
	08/30/05	310	190	210	0.9	< 0.1 UJ	0.25	< 0.05 UJ	NA	22	NR	NR	NR
DUP0830053A	08/30/05	310	190	210	--	< 0.1 UJ	0.25	< 0.05 UJ	NA	22	NR	NR	NR
LF5GW102CL	08/30/05	322	322	200	--	< 0.3 U	0.78 J	< 1 U	NA	20.7	NR	NR	NR
	05/26/05	74	74	210	0.7	< 0.1	0.78	0.08	NA	24	NR	NR	NR
	03/21/05	280	120	230	0.1	< 0.1	0.48	0.15	NA	23	NR	NR	NR
	12/14/04	320	230	240	0.2	< 0.1	0.23	0.15	NA	22	NR	NR	NR
	08/11/04	310	190	220	0.45	< 0.1	0.41	0.11	NA	24	NR	NR	NR
	05/27/04	340	230	230	1.3	< 0.1	0.55	0.06	NA	27	NR	NR	NR
	03/10/04	300	230	240	0.37	< 0.1	0.25	0.09	NA	28	NR	NR	NR
	12/03/03	330	230	230	0.7	< 0.1	1.1	< 0.05	NA	26	NR	NR	NR
DUP1203031A	12/03/03	330	210	240	--	< 0.1	0.62	< 0.05	NA	25	NR	NR	NR
LF5GW102CL	12/03/03	300	190	263	--	< 0.1	0.42	0.057	0.48	25.8	NR	NR	NR
	08/13/03	300	120	320	0.6	< 0.5	< 0.25 UJ	< 0.25 UJ	NA	37	NR	NR	NR
	06/06/03	290	210	380	0.7	0.34	0.1	0.1	NA	37	NR	NR	NR
LF5GW103	03/09/06	350	350	190	0.88	< 0.1	4.9	< 0.05	NA	27	NM	8.04	14
	08/30/05	360	360	180	0.8	< 0.1 UJ	4.8	< 0.05 UJ	NA	27	NR	NR	NR
	05/24/05	350	350	180	0.9	< 0.1	4.5	< 0.05	NA	27	NR	NR	NR
	03/15/05	330	330	190	0.8	< 0.1	5	< 0.05	NA	27	NR	NR	NR
	12/14/04	360	360	200	0.7	< 0.1	5.1	< 0.05	NA	28	NR	NR	NR
	08/11/04	360	360	200	0.49	< 0.1	4.9	< 0.05	NA	28	NR	NR	NR
	05/27/04	350	350	190	1.3	< 0.1	4.8	< 0.05	NA	27	NR	NR	NR
	03/10/04	340	340	210	0.7	< 0.1	4.8	< 0.05	NA	29	NR	NR	NR
	12/03/03	380	380	200	0.8	< 0.1	4.8	< 0.05	NA	29	NR	NR	NR

Table A-9-1
Results of General Chemistry Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
LF5GW103	08/19/03	370	370	200	1	< 0.1	4.8	< 0.05	NA	31	NR	NR	NR
DUP0819032A	08/19/03	320	320	200	--	< 0.1	4.8	< 0.05	NA	30	NR	NR	NR
LF5GW103CL	08/19/03	360	360	200	--	< 0.1	5 J-	< 0.05	5 J-	27	NR	NR	NR
	06/05/03	410	410	210	0.8	< 0.1	4.6	< 0.05	NA	29	NR	NR	NR
LF5GW104	03/07/06	420	420	290	0.63	< 0.1	5.9	< 0.05	NA	73	NM	7.65	14.4
DUP0307063B	03/07/06	370	370	290	--	< 0.1	6	< 0.05	NA	73	NR	NR	NR
LF5GW104CL	03/07/06	342	342	292	--	< 1 U	6.43	< 0.02 U	NA	73.3	NR	NR	NR
	08/30/05	360	360	270	0.6	< 0.1 UJ	5.9	< 0.05 UJ	NA	68	NR	NR	NR
	05/24/05	340	340	310	0.7	< 0.1	6.8	< 0.05	NA	81	NR	NR	NR
	03/15/05	370	370	280	0.9	< 0.1	7.1	< 0.05	NA	80	NR	NR	NR
	12/14/04	360	360	230	0.7	< 0.1	5.4	< 0.05	NA	46	NR	NR	NR
	08/11/04	380	380	220	0.47	< 0.1	5.2	< 0.05	NA	50	NR	NR	NR
	05/26/04	340	340	230	1.3	< 0.1	5.5	< 0.05	NA	56	NR	NR	NR
	03/10/04	350	350	290	0.7	< 0.1	7	< 0.05	NA	83	NR	NR	NR
	12/03/03	370	370	200	0.6	< 0.1	5.1	< 0.05	NA	49	NR	NR	NR
	08/13/03	420	420	200	0.7	< 0.5	5.7 b,J-	< 0.25 UJ	NA	66	NR	NR	NR
	06/05/03	360	360	260	0.6	< 0.1	7.5	< 0.05	NA	82	NR	NR	NR
LF5SP100	03/21/06	110	110	55	8.15	< 0.1	0.31	< 0.05	NA	24	NM	7.67	8.6
	06/01/05	NA	NA	NA	NM	NA	NA	NA	NA	NA	NR	NR	NR
	03/22/05	55	55	27	9.4	< 0.1	0.34	< 0.05	NA	14	NR	NR	NR
	12/05/03	88	88	97	8.9	0.18	1.4	< 0.05	NA	54	NR	NR	NR
DUP1205031A	12/05/03	80	80	97	--	0.18	1.4	< 0.05	NA	54	NR	NR	NR
LF5SP100CL	12/05/03	72	72	99.6	--	0.13	1.5 J-	0.067	1.6 J-	54.4	NR	NR	NR
	08/14/03	NA	NA	NA	NM	NA	NA	NA	NA	NA	NR	NR	NR
	06/10/03	NA	NA	NA	NM	NA	NA	NA	NA	NA	NR	NR	NR
1349MW01	03/16/06	310	310	850	0.54	< 0.1	1.7	< 0.1	NA	300	186.5	6.41	13.8
	03/21/05	270	270	690	0.3	< 0.1	2.1	< 0.1	NA	230	NR	NR	NR
	03/15/04	280	280	740	0.39	0.11	2.2	< 0.1	NA	250	NR	NR	NR
	12/02/03	310	310	690	1.1	0.14	2.2	< 0.05	NA	220	NR	NR	NR
	08/21/03	310	310	700	1.42	< 0.2	1.8	< 0.1	NA	220	NR	NR	NR
	06/10/03	380	380	740	1.29	< 0.2	2.1	< 0.1	NA	230	NR	NR	NR
	03/12/03	NA	NA	NA	1.59	NA	NA	NA	NA	NA	NR	NR	NR

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Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
1349MW01	12/09/02	360	360	750	0.76	< 0.2	1.7	< 0.1	NA	210	NR	NR	NR
DUP1209021A	12/09/02	350	350	750	--	< 0.2	1.8	< 0.1	NA	220	NR	NR	NR
1349MW01CL	12/09/02	350	350	360	--	1	1.4 J-	< 0.05 UJ	1.4 J-	220	NR	NR	NR
	08/28/02	270	270	740	1.34	0.13	1.7	< 0.05	NA	240	NR	NR	NR
	05/30/02	320	320	810	1.37	0.091 J	1.7	< 0.05	NA	230	NR	NR	NR
	03/06/02	290	290	830	2.13	0.13	1.8	< 0.05	NA	250	NR	NR	NR
	11/28/01	310	310	820	1.36	0.13	1.8	< 0.05	NA	240	NR	NR	NR
	08/30/01	420	420	740	0.61	0.24	1.3	< 2.5	NA	180	NR	NR	NR
DUP0830013A	08/30/01	430	430	740	--	0.14	1.2	< 2.5	NA	180	NR	NR	NR
1349MW01CL	08/30/01	340	340	760	--	< 0.05	1.4 [2]	< 2.5	NA	210	NR	NR	NR
	05/10/01	330	330	760	1.45	0.19	1.4	< 0.05	NA	220	NR	NR	NR
	05/19/99	433	433	820	0.83	0.2	NA	NA	0.537	188	NR	NR	NR
	02/19/99	468	468	731	1.83	0.15	NA	NA	0.641	192	NR	NR	NR
	11/18/98	361	361	666	1.59	0.17	NA	NA	0.62	205	NR	NR	NR
	08/18/98	574	574	701	2.24	0.11	NA	NA	0.404	161	NR	NR	NR
	04/16/98	377	377	679	2.89	0.12	NA	NA	0.715	221	NR	NR	NR
	01/22/98	509	509	673	1	0.124	NA	NA	0.416	159	NR	NR	NR
	10/30/97	527	527	726	0.37	< 0.05	0.478	NA	0.368	158	NR	NR	NR
	07/31/97	466	466	777	0.5	NA	0.532	NA	0.617	192	NR	NR	NR
	05/01/97	489	489	768	1.17	NA	0.451	NA	NA	190	NR	NR	NR
	02/10/97	374	374	888	1.26	NA	0.635	NA	< 0.05	262	NR	NR	NR
	08/08/95	NA	NA	NA	NM	NA	NA	NA	NA	NA	NR	NR	NR
1349MW02	03/10/06	660	660	740	0.56	< 0.1	1.3	< 0.1	NA	78	-18.1	7.29	13.2
	08/31/05	710	710	770	0.8	< 0.1 UJ	1.2	< 0.1 UJ	NA	88	NR	NR	NR
	05/25/05	650	650	710	0.5	< 0.1	1.2	< 0.1	NA	68	NR	NR	NR
	03/21/05	630	630	860	0.1	< 0.1	1.3	< 0.1	NA	67	NR	NR	NR
	12/16/04	710	710	620	0.8	< 0.1	1.6	< 0.1	NA	66	NR	NR	NR
	08/12/04	700	700	600	0.4	< 0.1	1.5	< 0.1	NA	64	NR	NR	NR
	05/26/04	660	660	650	0.59	0.11	1.3	< 0.1	NA	64	NR	NR	NR
	03/15/04	630	630	670	0.44	< 0.1	1.4	< 0.1	NA	66	NR	NR	NR
	12/02/03	720	720	600	0.6	< 0.1	1.6	< 0.05	NA	64	NR	NR	NR
	08/13/03	710	710	550	1.6	< 1	1.3 b,J-	< 0.5 UJ	NA	73	NR	NR	NR
	06/05/03	630	630	610	1.3	< 0.2	1.6	< 0.1	NA	62	NR	NR	NR
DUP0605032A	06/05/03	620	620	610	--	< 0.2	1.6	< 0.1	NA	62	NR	NR	NR

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Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
1349MW02	03/12/03	NA	NA	NA	0.3	NA	NA	NA	NA	NA	NR	NR	NR
	12/04/02	660	660	580	1.8	< 0.2	1.7	< 0.1	NA	62	NR	NR	NR
DUP1204023A	12/04/02	670	670	560	--	< 0.2	1.7	< 0.1	NA	63	NR	NR	NR
	08/28/02	670	670	570	1	0.12	1.6	< 0.05	NA	68	NR	NR	NR
	05/30/02	680	680	630	0.7	0.12	1.6	< 0.05	NA	60	NR	NR	NR
	03/06/02	640	640	680	1.2	0.13	1.6	< 0.05	NA	58	NR	NR	NR
DUP0306022A	03/06/02	640	640	670	--	0.13	1.6	< 0.05	NA	59	NR	NR	NR
	11/28/01	670	670	580	2.25	0.091 J	1.7	< 0.05	NA	60	NR	NR	NR
DUP1128011A	11/28/01	680	680	570	--	0.1 J	1.8	< 0.05	NA	56	NR	NR	NR
	08/30/01	660	660	570	NM	0.11	1.7	< 0.05	NA	64	NR	NR	NR
DUP0830012A	08/30/01	660	660	550	--	0.11	1.7	< 0.05	NA	63	NR	NR	NR
1349MW02CL	08/30/01	660	660	550	--	< 0.1	1.5 [2]	< 0.05	NA	56	NR	NR	NR
	05/10/01	660	660	570	1.3	0.12	1.7	< 0.05	NA	62	NR	NR	NR
	05/19/99	680	680	724	0.51	< 0.1	NA	NA	1.58	76	NR	NR	NR
	02/19/99	706	706	766	0.6	< 0.1	NA	NA	1.29	80	NR	NR	NR
	11/18/98	694	694	690	0.71	< 0.1	NA	NA	1.22	69	NR	NR	NR
	08/18/98	688	688	637	0.39	< 0.1	NA	NA	1.24	69	NR	NR	NR
	04/16/98	629	629	555	0.9	< 0.1	NA	NA	1.23	64	NR	NR	NR
	01/22/98	689	689	586	1.34	< 0.1	NA	NA	1.12	60	NR	NR	NR
	10/30/97	700	700	653	0.33	< 0.05	1.3	NA	1.21	72	NR	NR	NR
	07/31/97	679	679	662	0.62	NA	1.29	NA	1.2	73	NR	NR	NR
	05/01/97	696	696	661	0.31	NA	1.18	NA	NA	61	NR	NR	NR
	02/10/97	548	548	501	0.5	NA	0.924	NA	1.3	52	NR	NR	NR
	08/08/95	NA	NA	NA	NM	NA	NA	NA	NA	NA	NR	NR	NR
1349MW03R	03/16/06	440	440	860	1.1	< 0.1	6.3	< 0.1	NA	120	210	7.76	15.8
	11/30/05	NA	NA	NA	0.4	NA	NA	NA	NA	NA	NR	NR	NR
	08/31/05	390	390	170	0.4	< 0.1	5.9	< 0.05	NA	39	NR	NR	NR
	05/25/05	390	390	560	0.6	< 0.1	6.3	< 0.1	NA	84	NR	NR	NR
	03/21/05	350	350	960	7.7	< 0.1	5.4	< 0.1	NA	130	NR	NR	NR
	12/16/04	350	350	78	4.8	< 0.1	5.2	< 0.05	NA	29	NR	NR	NR
	08/10/04	350	350	68	3.94	< 0.1	4.6	< 0.05	NA	30	NR	NR	NR
	05/26/04	340	340	79	5.7	< 0.1	4.5	< 0.05	NA	31	NR	NR	NR
	03/09/04	380	380	78	7.08	< 0.1	4.5	< 0.05	NA	33	NR	NR	NR

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Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
1349MW03R	12/02/03	350	350	72	5.2	< 0.1	4.8	< 0.05	NA	22	NR	NR	NR
	08/13/03	360	360	78	4.8	< 0.5	4.5 b,J-	< 0.25 UJ	NA	32	NR	NR	NR
	06/09/03	330	330	130	2.6	0.37	4.7	0.1	NA	33	NR	NR	NR
1349MW100	05/24/06	910	910	850	1.1	0.23	< 0.05	< 0.1	NA	60	-77.5 NM	6.37	NA
DUP0524063A	05/24/06	860	860	830	NA	0.23	< 0.05	< 0.1	NA	65	NA	NA	NA
1349MW100CL	05/24/06	820	NA	930	NA	< 1 U	< 0.02 U UJ	< 0.02 U	NA	55.9	NA	NA	NA
	03/16/06	930	930	760	0.33	0.24	< 0.05	< 0.1	NA	50	74.7	6.44	15.2
	11/30/05	940 J+	940	1,300	0.3	0.34	< 0.1	< 0.15	NA	< 1	NR	NR	NR
	08/31/05	860	860	1500	0.3	0.31 J-	< 0.1	< 0.2 UJ	NA	8.7	NR	NR	NR
	05/25/05	910	910	810	0.3	0.2	< 0.05	< 0.1	NA	35	NR	NR	NR
	03/23/05	870	870	820	0.10	0.27	< 0.05	< 0.1	NA	37	NR	NR	NR
	12/16/04	940	940	1,200	0.2	0.28	< 0.05	< 0.25	NA	< 0.5	NR	NR	NR
	08/10/04	970	970	1,000	0.7	0.29	< 0.05	< 0.1	NA	0.51	NR	NR	NR
	05/27/04	940	940	1,100	0.55	0.28	< 0.05	< 0.1	NA	2	NR	NR	NR
	03/16/04	900	900	830	0.37	0.24	< 0.05	< 0.1	NA	10	NR	NR	NR
	12/02/03	890	890	1,200	1	0.24	< 0.1	< 0.1	NA	< 1	NR	NR	NR
	08/12/03	800	800	1,100	0.5	< 0.5	< 0.25	< 0.25	NA	< 2.5	NR	NR	NR
	06/09/03	860	860	890	1.8	< 0.5	< 0.25	< 0.25	NA	3.5	NR	NR	NR
	03/12/03	810	810	840	0.6	< 0.2	< 0.1	< 0.1	NA	7.7	NR	NR	NR
	12/10/02	660	660	1,300	0.9	< 0.2	< 0.1	< 0.1	NA	9.2	NR	NR	NR
1349MW101	03/16/06	330	330	180	1.11	< 0.1	2.8	< 0.05	NA	16	160.7	8.06	16
	08/31/05	280	280	190	0.7	< 0.1	2.5	< 0.05	NA	15	NR	NR	NR
	05/25/05	290	290	200	0.4	< 0.1	2.3	< 0.05	NA	15	NR	NR	NR
DUP0525052A	05/25/05	270	270	200	--	< 0.1	2.3	< 0.05	NA	15	NR	NR	NR
	03/21/05	280	280	210	0.20	< 0.1	3	< 0.05	NA	18	NR	NR	NR
	12/15/04	260	260	230	0.3	< 0.1	2.8	< 0.05	NA	17	NR	NR	NR
	03/09/04	260	260	210	3.52	0.13	3.5	< 0.05	NA	19	NR	NR	NR
	12/02/03	390	390	230	1.4	0.14	2.4	< 0.05	NA	19	NR	NR	NR
	08/19/03	280	280	260	1.7	0.25	2.5	< 0.05	NA	25	NR	NR	NR
	06/09/03	230	230	300	1.1	0.47	4.3	0.13	NA	38	NR	NR	NR
1349MW102	03/07/06	470	470	240	0.15	0.25	2	< 0.05	NA	140	-6.9	6.72	14.2
DUP0307063C	03/07/06	500	500	240	--	0.24	2	< 0.05	NA	130	-6.9	6.72	14.2
1349MW102CL	03/07/06	416	416	220	--	< 1 U	2.33	0.025	NA	156	-6.9	6.72	14.2
	08/31/05	420	420	210	0.9	0.19	1.7	< 0.05	NA	73	NR	NR	NR
DUP0831052A	08/31/05	450	450	200	--	0.19	1.7	< 0.05	NA	71	NR	NR	NR

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Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E353.2	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
1349MW102	05/25/05	390	390	150	0.5	0.15	2.8	< 0.05	NA	95	NR	NR	NR
	03/21/05	500	520	330	0.4	0.23	2	< 0.05	NA	79	NR	NR	NR
DUP0321053A	03/21/05	520	500	340	--	0.24	1.80	< 0.05	NA	79	NR	NR	NR
	12/16/04	630	630	450	1.08	0.25	0.71	< 0.05	NA	47	NR	NR	NR
	08/10/04	580	580	400	1.54	0.24	0.8	< 0.05	NA	42	NR	NR	NR
DUP0810042A	08/10/04	570	570	420	--	0.24	0.54	< 0.05	NA	41	NR	NR	NR
	05/27/04	600	600	410	1.1	0.27	0.52	< 0.05	NA	44	NR	NR	NR
DUP0527041A	05/27/04	630	630	400	--	0.26	0.74	< 0.05	NA	47	NR	NR	NR
1349MW102CL	05/27/04	620	620	88	--	0.29	0.6	< 0.05	0.6	18	NR	NR	NR
	03/10/04	540	540	470	0.5	0.27	0.4	< 0.05	NA	48	NR	NR	NR
DUP0310041A	03/10/04	550	550	470	--	0.27	0.4	< 0.05	NA	47	NR	NR	NR
1349MW102CL	03/10/04	530	530	450	--	0.28	0.45 J	< 0.05 UJ	0.45 HT-04,J	44	NR	NR	NR
	12/10/03	690	690	480	2	0.29	0.09	< 0.05	NA	43	NR	NR	NR
DUP1210031A	12/10/03	670	670	480	--	0.28	0.1	< 0.05	NA	43	NR	NR	NR
	08/12/03	740	740	430	1.1	0.47	0.17 b,J	< 0.1 UJ	NA	47	NR	NR	NR
	06/09/03	660	660	560	1.9	0.35	0.14	< 0.1	NA	68	NR	NR	NR
DUP0609032A	06/09/03	650	650	570	--	0.34	0.11	< 0.1	NA	70	NR	NR	NR
1349MW102CL	06/09/03	670	670	490	--	0.6	0.13	< 0.05	0.13	59	NR	NR	NR

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - The QC laboratory nitrate results shown have been converted to nitrate as nitrogen (nitrate-N) as other laboratory results are reported. The QC laboratory reported nitrate as NO_3 concentrations (nitrate-NO_3) which are 4.43 times higher than nitrate-N concentrations.
mg/L - milligrams per liter
NA - not analyzed
NM - not measured
"--" dissolved oxygen measurements were not taken for duplicate and quality control samples.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.
ORP - Oxidation Reduction Potential
mV - millivolts
°C - degrees centigrade

Table A-9-2
Results of TPH Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [3]		**443**	**880**	**1,200**
LF5GW100	03/09/06	< 50	52 Y	< 300
	08/30/05	< 50	< 50	< 300
	05/26/05	< 50	< 50	< 300
DUP0526051A	05/26/05	< 50	< 50	< 300
LF5GW100CL	05/26/05	< 50 U	56	< 300 U
	03/28/05	< 50	< 50	< 300
	12/16/04	< 50	< 50	< 300
DUP1216041A	12/16/04	< 50	< 50	< 300
	08/12/04	< 50	< 50	< 300
	05/26/04	< 50	< 50	< 300
	03/15/04	< 50	< 50	< 300
	12/04/03	< 50	< 50	< 300
	08/14/03	< 50	< 50	< 300
	06/05/03	< 50	< 50	< 300
	12/04/02	< 50	< 50	< 300
	08/29/02	< 50	< 50	< 300
	05/30/02	< 50	< 50	< 300
	03/06/02	< 50	< 50	< 300
	11/28/01	< 50	< 50	< 300
	08/30/01	< 50	< 50 [2]	< 300 [2]
	05/10/01	< 50	< 50	< 300
LF5GW100CL	05/10/01	< 50	87 ndp	< 50
	07/21/00	< 50	< 50	NA
LF5GW101	03/09/06	< 50	51 Y	< 300
	08/30/05	< 50	< 50	< 300
	05/26/05	< 50	< 50	< 300
	03/28/05	< 50	< 50	< 300
	12/16/04	< 50	< 50	< 300
	08/12/04	< 50	< 50	< 300
	05/26/04	< 50	< 50	< 300
	03/15/04	< 50	< 50	< 300
	12/04/03	< 50	< 50	< 300
	08/14/03	< 50	< 50	450
	06/05/03	< 50	< 50	< 300
	12/04/02	< 50	< 50	< 300
	08/29/02	< 50	< 50	< 300
	05/30/02	< 50	< 50	< 300
	03/06/02	< 50	< 50	< 300
	11/28/01	< 50	< 50	< 300
	08/30/01	< 50	< 50 [2]	< 300 [2]
	05/10/01	< 50	< 50	< 300
	07/21/00	< 50	< 50	NA
LF5GW102	03/09/06	< 50	61 Y	< 300
	08/30/05	< 50	< 50	< 300
DUP0830053A	08/30/05	< 50	< 50	< 300
LF5GW102CL	08/30/05	< 50 U	< 50 U	< 300 U
	05/26/05	< 50	51 Y	< 300
	03/21/05	< 50	< 50	< 300
	12/14/04	< 50	< 50	< 300

Table A-9-2
Results of TPH Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [3]		**443**	**880**	**1,200**
LF5GW102	08/11/04	< 50	< 50	< 300
	05/27/04	< 50	< 50	< 300
	03/10/04	< 50	< 50	< 300
	12/03/03	< 50	< 50	< 300
DUP1203031A	12/03/03	< 50	< 50	< 300
LF5GW102CL	12/03/03	< 50	< 48	< 240
	08/13/03	< 50	< 50	< 300
	06/06/03	< 50	< 50	< 300
LF5GW103	03/09/06	< 50	< 50	< 300
	08/30/05	< 50	< 50	< 300
	05/24/05	< 50	< 50	< 300
	03/15/05	< 50	< 50	< 300
	12/14/04	< 50	< 50	< 300
	08/11/04	< 50	< 50	< 300
	05/27/04	< 50	< 50	< 300
	03/10/04	< 50	< 50	< 300
	12/03/03	< 50	< 50	< 300
	08/19/03	< 50	< 50	< 300
DUP0819032A	08/19/03	< 50	< 50	< 300
LF5GW103CL	08/19/03	< 50	< 50	< 250
	06/05/03	< 50	< 50	< 300
LF5GW104	03/07/06	< 50	< 50	< 300
DUP0307063B	03/07/06	< 50	50 Y	< 300
LF5GW104CL	03/07/06	< 50 U	< 50 U	< 300 U
	08/30/05	< 50	< 50	< 300
	05/24/05	< 50	< 50	< 300
	03/15/05	< 50	< 50	< 300
	12/14/04	< 50	< 50	< 300
	08/11/04	< 50	< 50	< 300
	05/26/04	< 50	< 50	< 300
	03/10/04	< 50	< 50	< 300
	12/03/03	< 50	< 50	< 300
	08/13/03	< 50	< 50	< 300
	06/05/03	< 50	< 50	< 300
1349MW01 [4]	03/16/06	< 50	79 HY	< 300
	03/21/05	< 50	< 50	< 300
	03/15/04	< 50	< 50	< 300
	12/02/03	< 50	< 50	< 300
	08/21/03	< 50	< 50	< 300
	06/10/03	< 50	< 50	< 300
	03/12/03	NA	< 50	< 300
	12/09/02	< 50	< 50	< 300
DUP1209021A	12/09/02	< 50	< 50	< 300
1349MW01CL	12/09/02	< 50	< 50	< 250
	08/28/02	< 50	< 50	< 300
	05/30/02	< 50	< 50	< 300
	03/06/02	< 50	< 50	< 300
	11/28/01	< 50	< 50	< 300

Table A-9-2
Results of TPH Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [3]		**443**	**880**	**1,200**
1349MW01 [4]	08/30/01	< 50	< 50 [3]	< 300 [3]
DUP0830013A	08/30/01	< 50	57 [3] Y,NJ	< 300 [3]
1349MW01CL	08/30/01	< 50	< 50	< 300
	05/10/01	< 50	< 50	< 300
	05/19/99	NA	< 50	< 300
	02/19/99	NA	< 50	< 300
	11/18/98	NA	< 50	< 300
	08/18/98	NA	< 50 (U15)	< 300
	04/16/98	NA	< 50	< 300
	01/22/98	NA	< 50	< 300
	10/30/97	NA	< 50	< 300
	07/31/97	NA	< 50	< 300
	05/01/97	NA	< 50	< 300
	02/10/97	NA	< 50	< 300
	11/25/96	NA	< 50	< 300
	09/12/96	NA	< 50	< 300
	08/08/95	NA	< 50	NA
1349MW02 [4]	03/10/06	< 50	< 50	< 300
	08/31/05	< 50	< 50	< 300
	05/25/05	< 50	< 50	< 300
	03/21/05	< 50	< 50	< 300
	12/16/04	< 50	< 50	< 300
	08/12/04	< 50	< 50	< 300
	05/26/04	< 50	< 50	< 300
	03/15/04	< 50	< 50	< 300
	12/02/03	< 50	< 50	< 300
	08/13/03	< 50	290 HY	< 300
	06/05/03	< 50	< 50	< 300
DUP0605032A	06/05/03	< 50	< 50	< 300
	03/12/03	NA	< 50	< 300
	12/04/02	< 50	< 50	< 300
DUP1204023A	12/04/02	< 50	< 50	< 300
	08/28/02	< 50	< 50	< 300
	05/30/02	< 50	< 50	< 300
	03/06/02	< 50	< 50	< 300
DUP0306022A	03/06/02	< 50	< 50	< 300
	11/28/01	< 50	< 50	< 300
DUP1128011A	11/28/01	< 50	< 50	< 300
	08/30/01	< 50	57 [3] Y,NJ	< 300 [3]
DUP0830012A	08/30/01	< 50	67 [3] Y,NJ	< 300 [3]
1349MW02CL	08/30/01	< 50	< 50	< 300
	05/10/01	< 50	< 50	< 300
	05/19/99	NA	< 50	< 300
	02/19/99	NA	< 50	< 300
	11/18/98	NA	< 50	< 300
	08/18/98	NA	< 50 (U15)	< 300
	04/16/98	NA	< 50	< 300
	01/22/98	NA	< 50	< 300
	10/30/97	NA	< 50	< 300
	07/31/97	NA	58 (R32)	< 300
	05/01/97	NA	< 50	< 300

Table A-9-2
Results of TPH Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [3]		**443**	**880**	**1,200**
1349MW02 [4]	02/10/97	NA	< 50	< 300
	11/25/96	NA	< 50	< 300
	09/12/96	NA	< 50	< 300
	08/08/95	NA	< 50	NA
1349MW03R	03/16/06	< 50	< 50	< 300
	08/31/05	< 50	< 50	< 300
	05/25/05	< 50	< 50	< 300
	03/21/05	< 50	< 50	< 300
	12/16/04	< 50	< 50	< 300
	08/10/04	< 50	< 50	< 300
	05/26/04	< 50	< 50	< 300
	03/09/04	< 50	81 HY	770 Z
	12/02/03	< 50	< 50	< 300
	08/13/03	< 50	< 50	< 300
	06/09/03	< 50	< 50	< 300
1349MW100 [4]	05/24/06	690 HY	3,600	< 300
DUP0524063A	05/24/06	490 HY	5,200	< 300
1349MW100CL	05/24/06	350	5,400	< 2,100 U
	03/16/06	1,300 HY	6,900	< 300
	11/30/05	450 HY	26,000	< 900
	08/31/05	630 HY	20,000	< 300
	05/25/05	690 H	5,100	< 300
	03/23/05	960 HY	24,000	< 600
	12/16/04	1,400 HY J+	6,300	< 300
	08/10/04	3,000 HY	5,000	< 300
	05/27/04	920 HY	3,600	< 300
	03/16/04	930 H	31,000	< 600
	12/02/03	1,000 HY,J+	1,100 LY	< 300
	08/12/03	700 YH	9,000	< 300
	06/09/03	1,200 YH	5,100	< 300
	03/12/03	610 YH	1,800	< 300
	12/10/02	230 Y	1,500	< 300
1349MW101	03/16/06	< 50	< 50	< 300
	08/31/05	< 50	< 50	< 300
	05/25/05	< 50	< 50	< 300
DUP0525052A	05/25/05	< 50	< 50	< 300
	03/21/05	< 50	< 50	< 300
	12/15/04	< 50	< 50	< 300
	03/09/04	< 50	< 50	< 300
	12/02/03	< 50	< 50	< 300
	08/19/03	< 50	< 50	< 300
	06/09/03	< 50	< 50	< 300
1349MW102	03/07/06	< 50	< 50	< 300
DUP0307063C	03/07/06	< 50	< 50	< 300
1349MW102CL	03/07/06	< 50 U	60 J+	< 300 U
	08/31/05	< 50	< 50	< 300
DUP0831052A	08/31/05	< 50	< 50	< 300
	05/25/05	< 50	< 50	< 300
	03/21/05	< 50	< 50	< 300
DUP0321053A	03/21/05	< 50	< 50	< 300
	12/16/04	< 50	< 50	< 300
	08/10/04	< 50	< 50	< 300
	08/10/04	< 50	< 50	< 300

Table A-9-2
Results of TPH Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [3]		**443**	**880**	**1,200**
1349MW102	05/27/04	< 50	51 Y	< 300
DUP0527041A	05/27/04	< 50	< 50	< 300
1349MW102CL	05/27/04	< 50	54	< 240
	03/10/04	< 50	< 50	< 300
DUP0310041A	03/10/04	< 50	< 50	< 300
1349MW102CL	03/10/04	< 50	NA	NA
	12/10/03	< 50	< 50	< 300
DUP1210031A	12/10/03	< 50	< 50	< 300
	08/12/03	< 50	< 50	< 300
	06/09/03	< 50	< 50	< 300
DUP0609032A	06/09/03	< 50	< 50	< 300
1349MW102CL	06/09/03	< 50	< 50	< 250

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - TPH analysis was not run using the silica gel cleanup method 3630A, although it was marked on the chain of custody.
3 - Groundwater cleanup levels were taken from the *Remedial Action Plan and Evaluation of Alternatives for Landfill 4 and Fill Site 5, Presidio of San Francisco, California* (Treadwell & Rollo, 2003e).
4 - Monitoring wells 1349MW01, 1349MW02, and 1349MW100 are located upgradient of Fill Site 5, therefore, the cleanup levels do not apply to these wells.
µg/L - micrograms per liter
NA - not analyzed
TPH - total petroleum hydrocarbons
Bold numbers indicate concentrations which exceed cleanup criteria.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-9-3
Results of VOC Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	2-Butanone	Benzene	Bromo-form	Carbon Disulfide	Dibromo-chloro-methane	1,2-DCA	Ethyl-benzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**1**	**--**	**--**	**--**	**0.5**	**700**	**--**	**150**	**318**	**--**
LF5GW100	03/09/06	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/30/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/28/05	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/12/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/26/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/15/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/14/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/05/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/29/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/30/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/06/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/28/01	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/30/01	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/10/01	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF5GW100CL	05/10/01	< 10	< 1	< 1	< 0.5	< 1	< 1	< 1	NA	< 1	< 1	ND
	07/21/00	< 10	< 5	< 5	< 5	< 5	< 5	< 5	NA	< 5	< 5	ND
LF5GW101	03/09/06	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/30/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/28/05	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/12/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/26/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/15/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/14/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/05/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/29/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/30/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/06/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/28/01	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/30/01	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/10/01	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	07/21/00	< 10	< 5	< 5	< 5	< 5	< 5	< 5	NA	< 5	< 5	ND
LF5GW102	03/09/06	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/30/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0830053A	08/30/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
LF5GW102CL	08/30/05	< 10 U	< 0.5 U	< 1 U	< 5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 2 U	< 0.5 U	< 1 U	ND
	03/21/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/11/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/27/04	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/10/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/03/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP1203031A	12/03/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF5GW102CL	12/03/03	< 5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/06/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF5GW103	03/09/06	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/30/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/15/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/11/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/27/04	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/10/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/03/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/19/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0819032A	08/19/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF5GW103CL	08/19/03	< 5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/05/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND

Table A-9-3
Results of VOC Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	2-Butanone	Benzene	Bromo-form	Carbon Disulfide	Dibromo-chloro-methane	1,2-DCA	Ethyl-benzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**1**	**--**	**--**	**--**	**0.5**	**700**	**--**	**150**	**318**	**--**
LF5GW104	03/07/06	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0307063B	03/07/06	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
LF5GW104CL	03/07/06	< 10 U	< 0.5 U	< 1 U	< 5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 2 U	< 0.5 U	< 1 U	ND
	08/30/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/15/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/11/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/26/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/10/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/03/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/05/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF5SP100	03/21/06	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/22/05	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	12/05/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP1205031A	12/05/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
LF5SP100CL	12/05/03	< 5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW01 [3]	03/16/06	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/21/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/15/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/21/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/10/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/12/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/09/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	ND
DUP1209021A	12/09/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	ND
1349MW01CL	12/09/02	< 5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/28/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/30/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/06/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/28/01	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/30/01	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0830013A	08/30/01	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW01CL	08/30/01	< 50	< 0.5	< 1	< 0.5	< 1	< 1	< 0.5	< 5	< 0.5	< 0.5	ND
	05/10/01	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5 UJ	< 0.5 UJ	ND
	02/19/99	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	11/18/98	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	08/18/98	NA	< 0.5 U18	NA	NA	NA	NA	< 0.5 U18	NA	< 0.5 U18	< 0.5 U18	ND
	04/16/98	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	01/22/98	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	10/30/97	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	07/31/97	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	05/01/97	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	02/10/97	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	11/25/96	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	09/12/96	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	0.54	< 0.5	ND
	08/08/95	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
1349MW02 [3]	03/10/06	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/31/05	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	05/25/05	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/21/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/15/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/05/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0605032A	06/05/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/12/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP1204023A	12/04/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND

Table A-9-3
Results of VOC Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	2-Butanone	Benzene	Bromo-form	Carbon Disulfide	Dibromo-chloro-methane	1,2-DCA	Ethyl-benzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**1**	**--**	**--**	**--**	**0.5**	**700**	**--**	**150**	**318**	**--**
1349MW02 [3]	08/28/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/30/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/06/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0306022A	03/06/02	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	11/28/01	< 10	0.8	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.5	< 0.5	ND
DUP1128011A	11/28/01	< 10	1.1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.3	0.7	ND
	08/30/01	< 10	< 0.5	< 1	1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0830012A	08/30/01	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW02CL	08/30/01	< 50	< 0.5	< 1	< 0.5	< 1	< 1	< 0.5	< 5	< 0.5	< 0.5	ND
	05/10/01	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/19/99	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	11/18/98	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	08/18/98	NA	< 0.5 U18	NA	NA	NA	NA	< 0.5 U18	NA	< 0.5 U18	< 0.5 U18	ND
	04/16/98	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	01/22/98	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	10/30/97	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	07/31/97	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	05/01/97	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	02/10/97	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	11/25/96	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	09/12/96	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
	08/08/95	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.5	< 0.5	ND
1349MW03R	03/16/06	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/31/05	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/21/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/09/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW100 [3]	05/24/06	< 10	29	< 1	0.7	< 0.5	< 0.5	0.8	< 0.5	< 0.5	3.8	ND
DUP0524063A	05/24/06	< 10	28	< 1	0.8	< 0.5	< 0.5	0.8	< 0.5	< 0.5	3.7	ND
1349MW100CL	05/24/06	< 10 U	30	< 1 U	< 5 U	< 0.5 U	< 0.5 U	0.9	< 2 U	< 0.5 U	4.2	ND
	03/16/06	< 10	22	< 1	< 0.5	< 0.5	< 0.5	0.8	< 0.5	< 0.5	0.8	ND
	11/30/05	< 10	18	< 1	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	1.5	ND
	08/31/05	< 10	20	< 1	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	< 1	ND
	05/25/05	< 10	39	< 1	< 0.5	< 0.5	1.5	0.9	< 0.5	< 0.5	2	ND
	03/23/05	< 10 UJ	27	< 1	< 0.5	< 0.5	< 0.5	1.5	< 0.5	< 0.5	2.9	ND
	03/16/04	< 10	24	< 1	< 0.5	< 0.5	< 0.5	2.5	< 0.5	< 0.5	5.5	ND
	12/02/03	< 10	7.8	< 1	< 0.5	< 0.5	< 0.5	2	0.5	0.5	3.8	ND
	08/12/03	< 10	9.1	< 1	< 0.5	< 0.5	< 0.5	1.1	< 0.5	0.5	3	ND
	06/09/03	< 10	27	< 1	1.3	< 0.5	< 0.5	7	< 0.5	0.7	12	ND
	03/12/03	< 10	25	< 1	< 0.5 UJ	< 0.5	< 0.5	5	< 0.5	0.6	9.8	ND
	12/10/02	< 10	2.6	< 1	< 0.5	< 0.5	< 0.5	1.3	< 0.5 UJ	0.8	3	ND
1349MW101	03/16/06	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	08/31/05	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/21/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/09/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/19/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 10	< 0.5	0.6 J	< 0.5	0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW102	03/07/06	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0307063C	03/07/06	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
1349MW102CL	03/07/06	< 10 U	< 0.5 U	< 1 U	< 5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 2 U	< 0.5 U	< 1 U	ND
	08/31/05	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0831052A	08/31/05	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/21/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0321053A	03/21/05	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND

Table A-9-3
Results of VOC Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	2-Butanone	Benzene	Bromo-form	Carbon Disulfide	Dibromo-chloro-methane	1,2-DCA	Ethyl-benzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M	SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**1**	**--**	**--**	**--**	**0.5**	**700**	**--**	**150**	**318**	**--**
1349MW102	03/10/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0310041A	03/10/04	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW102CL	03/10/04	< 5	< 0.5	< 0.5	< 5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/10/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP1210031A	12/10/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/12/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0609032A	06/09/03	< 10	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
1349MW102CL	06/09/03	< 5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Groundwater cleanup levels were taken from the *Remedial Action Plan and Evaluation of Alternatives for Landfill 4 and Fill Site 5, Presidio of San Francisco, California* (Treadwell & Rollo, 2002e).
3 - Monitoring wells 1349MW01, 1349MW02 and 1349MW100 are located upgradient of Fill Site 5, therefore, the cleanup levels do not apply to these wells.
-- - cleanup level not established
µg/L - micrograms per liter
ND - not detected
NA - not analyzed
1,2-DCA - 1,2-dichloroethane
VOCs - volatile organic compounds
MTBE - methyl tert-butyl ether
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Bold numbers indicate concentrations which exceed cleanup criteria.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-9-4
Results of OCP and PCB Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	alpha-Chlordane	beta-BHC	delta-BHC	Dieldrin	Endosulfan II	Endrin	gamma-BHC	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Meth-oxychlor	All Other OCPs / PCBs
	Analytical Method[1]	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	--	--	--	--	**0.037 [3]**	--	**0.056**	--	--	**0.05**	--	**0.025**	--	--	--
LF5GW100	03/09/06	< 0.1	< 0.1	< 0.1 UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / NA
	08/30/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/26/05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
DUP0526051A	05/26/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
LF5GW100CL	05/26/05	< 0.1 U	< 0.1 U	< 0.1 U	< 0.05 U	< 0.5 U	< 0.05 U	< 0.05 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.05 U	< 0.5 U	< 0.05 U	< 0.05 U	< 0.5 U	ND
	03/28/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05 # UJ	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/16/04	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
DUP1216041A	12/16/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/12/04	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	05/26/04	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	03/15/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/04/03	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 b,UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
	08/14/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	06/05/03	< 0.1	< 0.1	< 0.1 UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/04/02	< 0.099	< 0.099	< 0.099	< 0.05	< 0.05	< 0.05	< 0.05	< 0.099	< 0.099	< 0.099	< 0.05	< 0.05	< 0.05	NA	< 0.5	ND
	08/29/02	< 0.099	< 0.099	< 0.099	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.099	< 0.099	< 0.099	< 0.05 UJ	< 0.05	< 0.05 UJ	NA	< 0.5	ND
	05/30/02	< 0.099	< 0.099	< 0.099	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.099	< 0.099	< 0.099	< 0.05 UJ	< 0.05	< 0.05 UJ	NA	< 0.5	ND
	03/06/02	< 0.098	< 0.098	< 0.098 UJ	< 0.049 UJ	< 0.049	< 0.049 UJ	< 0.049 UJ	< 0.098	< 0.098	< 0.098	< 0.049 UJ	< 0.049	< 0.049 UJ	NA	< 0.49	ND
	11/28/01	< 0.096	< 0.096	< 0.096	< 0.048	< 0.048	< 0.048	< 0.048	< 0.096	< 0.096	< 0.096	< 0.048	< 0.048	< 0.048	NA	< 0.48	ND
	08/30/01	< 0.098	< 0.098	< 0.098	< 0.049	< 0.049	< 0.049	< 0.049	< 0.098	< 0.098	< 0.098	< 0.049	< 0.049	< 0.049	NA	< 0.49	ND
	05/10/01	< 0.097 UJ	< 0.097 UJ	< 0.097 UJ	< 0.049 UJ	< 0.049 UJ	< 0.049 UJ	< 0.049 UJ	< 0.097 UJ	< 0.097 UJ	< 0.097 UJ	< 0.049 UJ	< 0.049 UJ	< 0.049 UJ	NA	< 0.49 UJ	ND
LF5GW100CL	05/10/01	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	ND
	07/21/00	< 0.094	< 0.094	< 0.094	< 0.094	NA	< 0.094	< 0.094	< 0.094	< 0.094	< 0.094	< 0.094	NA	< 0.094	< 0.094	< 0.094	ND
LF5GW101	03/09/06	< 0.09	< 0.09	< 0.09 UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / NA
	08/30/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/26/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/28/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05 # UJ	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/16/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/12/04	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	05/26/04	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	03/15/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/04/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1 b,UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/14/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	06/05/03	< 0.1	< 0.1	< 0.1 UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/04/02	< 0.098	< 0.098	< 0.098	< 0.049	< 0.049	< 0.049	< 0.049	< 0.098	< 0.098	< 0.098	< 0.049	< 0.049	< 0.049	NA	< 0.49	ND
	08/29/02	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	NA	< 0.5	ND
	05/30/02	< 0.099	< 0.099	< 0.099	< 0.05	< 0.05	< 0.05	< 0.05	< 0.099	< 0.099	< 0.099	< 0.05	< 0.05	< 0.05	NA	< 0.5	ND
	03/06/02	< 0.098	< 0.098	< 0.098 UJ	< 0.049 UJ	< 0.049	< 0.049 UJ	< 0.049 UJ	< 0.098	< 0.098	< 0.098	< 0.049 UJ	< 0.049	< 0.049 UJ	NA	< 0.49	ND
	11/28/01	< 0.096	< 0.096	< 0.096	< 0.048	< 0.048	< 0.048	< 0.048	< 0.096	< 0.096	< 0.096	< 0.048	< 0.048	< 0.048	NA	< 0.48	ND
	08/30/01	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	< 0.049	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	NA	< 0.49	ND
	05/10/01	< 0.097 UJ	< 0.097 UJ	< 0.097 UJ	< 0.049 UJ	< 0.049 UJ	< 0.049 UJ	< 0.049 UJ	< 0.097 UJ	< 0.097 UJ	< 0.097 UJ	< 0.049 UJ	< 0.049 UJ	< 0.049 UJ	NA	< 0.49 UJ	ND
	07/21/00	< 0.094	< 0.094	< 0.094	< 0.094	NA	< 0.094	< 0.094	< 0.094	< 0.094	< 0.094	< 0.094	NA	< 0.094	< 0.094	< 0.094	ND

Table A-9-4
Results of OCP and PCB Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	alpha-Chlordane	beta-BHC	delta-BHC	Dieldrin	Endosulfan II	Endrin	gamma-BHC	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Meth-oxychlor	All Other OCPs / PCBs
	Analytical Method[1]	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	--	--	--	--	**0.037 [3]**	--	**0.056**	--	--	**0.05**	--	**0.025**	--	--	--
LF5GW102	03/09/06	< 0.1	< 0.1	< 0.1 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / NA
	08/30/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
DUP0830053A	08/30/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
LF5GW102CL	08/30/05	< 0.1 U	< 0.1 U	< 0.1 U	< 0.05 U	< 0.5 U	< 0.05 U	< 0.05 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.5 U	ND
	05/26/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/21/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/14/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/11/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/27/04	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	03/10/04	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/03/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
DUP1203031A	12/03/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
LF5GW102CL	12/03/03	< 0.097	< 0.097	< 0.097	< 0.049	NA	< 0.049	< 0.049	< 0.097	< 0.097	< 0.097	< 0.049	< 0.49	< 0.049	< 0.049	< 0.49	ND
	08/13/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	06/06/03	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
LF5GW103	03/09/06	< 0.1	< 0.1	< 0.1 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / NA
	08/30/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/24/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/15/05	< 0.1 UJ	< 0.1 UJ	< 0.1 # UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 # UJ	ND
	12/14/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/11/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/27/04	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	03/10/04	< 0.09	< 0.09	< 0.09	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.09	< 0.09	< 0.09	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	12/03/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/19/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
DUP0819032A	08/19/03	< 0.09	< 0.09	< 0.09	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.09	< 0.09	< 0.09	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
LF5GW103CL	08/19/03	< 0.095 UJ	< 0.095 UJ	< 0.095 UJ	< 0.048	NA	< 0.048	< 0.048	< 0.095 UJ	< 0.095 UJ	< 0.095 UJ	< 0.048	< 0.48 UJ	< 0.048	< 0.048	< 0.48 UJ	ND
	06/05/03	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
LF5GW104	03/07/06	< 0.09	< 0.09	< 0.09 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / NA
DUP0307063B	03/07/06	< 0.09	< 0.09	< 0.09 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / NA
LF5GW104CL	03/07/06	< 0.1 U UJ	< 0.1 U UJ	< 0.1 U UJ	< 0.05 U	< 0.5 U UJ	< 0.05 U	< 0.05 U	< 0.1 U UJ	< 0.1 U UJ	< 0.1 U UJ	< 0.05 U	NA	< 0.05 U	< 0.05 U	< 0.5 U UJ	ND / NA
	08/30/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/24/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/15/05	< 0.1 UJ	< 0.1 UJ	< 0.1 # UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 # UJ	ND
	12/14/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/11/04	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	05/26/04	< 0.09	< 0.09	< 0.09	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.09	< 0.09	< 0.09	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	03/10/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	**0.07 C**	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/03/03	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	08/13/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	06/05/03	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND

Table A-9-4
Results of OCP and PCB Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	alpha-Chlordane	beta-BHC	delta-BHC	Dieldrin	Endosulfan II	Endrin	gamma-BHC	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Meth-oxychlor	All Other OCPs / PCBs
	Analytical Method[1]	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	--	--	--	--	**0.037 [3]**	--	**0.056**	--	--	**0.05**	--	**0.025**	--	--	--
LF5SP100	03/21/06	< 0.1	< 0.1	< 0.1 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5 # UJ	ND / NA
	03/22/05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
	12/05/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1 b,UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
DUP1205031A	12/05/03	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 b,UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
LF5SP100CL	12/05/03	< 0.098 UJ	< 0.098 UJ	< 0.098 UJ	< 0.049 UJ	NA	< 0.049 UJ	< 0.049 UJ	< 0.098 UJ	< 0.098 UJ	< 0.098 UJ	< 0.049 UJ	< 0.49 UJ	< 0.049 UJ	< 0.049 UJ	< 0.49 UJ	ND
1349MW01 [4]	03/16/06	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / NA
	03/21/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/15/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	12/02/03	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND
	08/21/03	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	06/10/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND
	03/12/03	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	NA	< 0.5	ND
	12/09/02	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	< 0.049	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	NA	< 0.49	ND
DUP1209021A	12/09/02	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	< 0.049	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	NA	< 0.49	ND
1349MW01CL	12/09/02	< 0.1	< 0.1	< 0.1	< 0.05 UJ	NA	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.5	< 0.05 UJ	< 0.05 UJ	< 0.5	ND
	08/28/02	< 0.097	< 0.097	< 0.097	< 0.049 UJ	< 0.049	< 0.049 UJ	< 0.049 UJ	< 0.097	< 0.097	< 0.097	< 0.049 UJ	< 0.049	< 0.049 UJ	NA	< 0.49	ND
	05/30/02	< 0.098	< 0.098	< 0.098	< 0.049 UJ	< 0.049	< 0.049 UJ	< 0.049 UJ	< 0.098	< 0.098	< 0.098	< 0.049 UJ	< 0.049	< 0.049 UJ	NA	< 0.49	ND
	03/06/02	< 0.098	< 0.098	< 0.098 UJ	< 0.049 UJ	< 0.049	< 0.049 UJ	< 0.049 UJ	< 0.098	< 0.098	< 0.098	< 0.049 UJ	< 0.049	< 0.049 UJ	NA	< 0.49	ND
	11/28/01	< 0.096	< 0.096	< 0.096	< 0.048	< 0.048	< 0.048	< 0.048	< 0.096	< 0.096	< 0.096	< 0.048	< 0.048	< 0.048	NA	< 0.48	ND
	08/30/01	< 0.097 UJ	< 0.097 UJ	< 0.097 UJ	< 0.049	< 0.049 UJ	< 0.049	< 0.049	< 0.097 UJ	< 0.097 UJ	< 0.097 UJ	< 0.049	< 0.049 UJ	< 0.049	NA	< 0.49 UJ	ND
DUP0830013A	08/30/01	< 0.098	< 0.098	< 0.098	< 0.049	< 0.049	< 0.049	< 0.049	< 0.098	< 0.098	< 0.098	< 0.049	< 0.049	< 0.049	NA	< 0.49	ND
1349MW01CL	08/30/01	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	ND
	05/10/01	< 0.094 UJ	< 0.094 UJ	< 0.094 UJ	< 0.047	< 0.047 UJ	< 0.047	< 0.047	< 0.094 UJ	< 0.094 UJ	< 0.094 UJ	< 0.047	< 0.047 UJ	< 0.047	NA	< 0.47 UJ	ND
1349MW02 [4]	03/10/06	< 0.1	< 0.1	< 0.1 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	08/31/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	05/25/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	03/21/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	12/16/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	08/12/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	05/26/04	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	03/15/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	12/02/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	08/13/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	06/05/03	< 0.09	< 0.09	< 0.09 UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
DUP0605032A	06/05/03	< 0.09	< 0.09	< 0.09 UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	03/12/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	NA	< 0.5	ND / ND
	12/04/02	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	< 0.049	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	NA	< 0.49	ND / ND
DUP1204023A	12/04/02	< 0.094 UJ	< 0.094 UJ	< 0.094 UJ	< 0.047	< 0.047 UJ	< 0.047	< 0.047	< 0.094 UJ	< 0.094 UJ	< 0.094 UJ	< 0.047	< 0.047 UJ	< 0.047	NA	< 0.47 UJ	ND / ND
	08/28/02	< 0.095	< 0.095	< 0.095	< 0.048	< 0.048	< 0.048	< 0.048	< 0.095	< 0.095	< 0.095	< 0.048	< 0.048	< 0.048	NA	< 0.48	ND / ND
	05/30/02	< 0.099	< 0.099	< 0.099	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.099	< 0.099	< 0.099	< 0.05 UJ	< 0.05	< 0.05 UJ	NA	< 0.5	ND / ND
	03/06/02	< 0.095	< 0.095	< 0.095 UJ	< 0.048	< 0.048	< 0.048	< 0.048	< 0.095	< 0.095	< 0.095	< 0.048 UJ	< 0.048	< 0.048	NA	< 0.48	ND / ND
DUP0306022A	03/06/02	< 0.095	< 0.095	< 0.095 UJ	< 0.048 UJ	< 0.048	< 0.048 UJ	< 0.048 UJ	< 0.095	< 0.095	< 0.095	< 0.048 UJ	< 0.048	< 0.048 UJ	NA	< 0.48	ND / ND

Table A-9-4
Results of OCP and PCB Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	alpha-Chlordane	beta-BHC	delta-BHC	Dieldrin	Endosulfan II	Endrin	gamma-BHC	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Meth-oxychlor	All Other OCPs / PCBs
	Analytical Method[1]	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	--	--	--	--	**0.037 [3]**	--	**0.056**	--	--	**0.05**	--	**0.025**	--	--	--
1349MW02 [4]	11/28/01	< 0.096	< 0.096	< 0.096	< 0.048	< 0.048	< 0.048	< 0.048	< 0.096	< 0.096	< 0.096	< 0.048	< 0.048	< 0.048	NA	< 0.48	ND / ND
DUP1128011A	11/28/01	< 0.096 UJ	< 0.096 UJ	< 0.096 UJ	< 0.048	< 0.048 UJ	< 0.048	< 0.048	< 0.096 UJ	< 0.096 UJ	< 0.096 UJ	< 0.048	< 0.048 UJ	< 0.048	NA	< 0.48 UJ	ND / ND
	08/30/01	< 0.098 UJ	< 0.098 UJ	< 0.098 UJ	< 0.049	< 0.049 UJ	< 0.049	< 0.049	< 0.098 UJ	< 0.098 UJ	< 0.098 UJ	< 0.049	< 0.049 UJ	< 0.049	NA	< 0.49 UJ	ND / ND
DUP0830012A	08/30/01	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	< 0.049	< 0.097	< 0.097	< 0.097	< 0.049	< 0.049	< 0.049	NA	< 0.49	ND / ND
1349MW02CL	08/30/01	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	ND / ND
	05/10/01	< 0.094	< 0.094	< 0.094	< 0.047	< 0.047	< 0.047	< 0.047	< 0.094	< 0.094	< 0.094	< 0.047	< 0.047	< 0.047	NA	< 0.47	ND / ND
1349MW03R	03/16/06	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	08/31/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	05/25/05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	03/21/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	12/16/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	08/10/04	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	05/26/04	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND / ND
	03/09/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	**0.08 C**	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	12/02/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	08/13/03	< 0.09	< 0.09	< 0.09	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.09	< 0.09	< 0.09	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND / ND
	06/09/03	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND / ND
1349MW100 [4]	05/24/06	< 0.5	< 0.5	0.8 C	< 0.2	< 0.2	< 0.5 # UJ	< 0.2 # UJ	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 0.2	0.4	< 2.4	ND / ND
DUP0524063A	05/24/06	< 0.5	< 0.5	0.8	0.3 C	0.8	< 0.5 # UJ	< 0.2 # UJ	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	< 0.2	0.3	< 2.4	ND / ND
1349MW100CL	05/24/06	< 0.1 U UJ	< 0.1 U UJ	< 0.1 U UJ	< 0.05 U	< 0.5 U UJ	< 0.05 U	< 0.05 U	< 0.1 U UJ	< 0.1 U UJ	< 0.1 U UJ	0.082	NA	< 0.05 U	< 0.05 U	< 0.5 U UJ	ND / ND
	03/16/06	0.9 C J-	< 0.1 UJ	< 0.1 UJ	0.3	0.9 C J-	< 0.05	0.1 C	0.4 C J-	< 0.1 UJ	< 0.1 UJ	< 0.05	0.7 C J-	0.8 C	0.2	< 0.5 UJ	ND / ND
	11/30/05	< 0.5	< 0.5	< 0.5	< 0.2	0.3 C	< 0.2	< 0.2	< 0.5	< 0.5	< 0.5	1.3	< 0.2	< 0.2	< 0.2	< 2.4	ND / ND
	08/31/05	< 0.1	< 0.1	1 Cb J	< 0.05	0.2 C	< 0.5	0.08 b J	0.1	0.8 C	< 0.1	8.5 Cb J	0.2	< 0.05	0.2 C	< 0.5	ND / ND
	05/25/05	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 0.5	< 1	< 1	< 1	4.5 #C	< 0.5	< 0.5	< 0.5	< 4.8	ND / ND
	03/23/05	< 1	< 1	< 1 # UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 5	ND / ND
	12/16/04	< 1	< 1 #	< 1 # UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 4.8 # UJ	ND / ND
	08/10/04	0.9 C	1.1 C	0.4	0.2	0.1	< 0.05	0.1 C	0.5 C	< 0.1	0.1 C	3.7 C	< 0.05	1.6 C	< 0.05	< 0.5	ND / ND
	05/27/04	< 0.2 UJ	< 0.2 UJ	0.5 C, J-	< 0.09	0.2 C, J-	< 0.09	0.2 C	0.3 J-	0.7 C, J-	0.2 J-	< 0.2	0.1 J-	0.8 C	0.2 C	< 0.9 UJ	ND / ND
	03/16/04	< 0.09 UJ	0.7 Cb,J-	0.7 C,J-	< 0.05 UJ	0.2 J-	< 0.05 UJ	0.08 b,J-	0.3 J-	0.6 J-	0.2 J-	< 0.05 UJ	0.3 C,J-	0.8 Cb,J-	0.2 C,J-	1.2 b,J-	ND / ND
	12/02/03	0.5 C	0.7 C	0.5 Cb,J-	< 0.05	< 0.05	3.9 C	0.06 C	0.1	< 0.09	< 0.09	2.3 C	< 0.05	< 0.05	0.2 C	< 0.5	ND / ND
	08/12/03	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	0.2 C	0.1 J-	< 0.2	< 0.05	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	4.6 C	0.07 J-	2.6 Cb,J-	0.1	< 0.5 UJ	ND / ND
	06/09/03	0.3 C,J-	0.3 C,J-	< 0.09 UJ	0.07 C	< 0.05 UJ	< 0.05	0.2 C	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	4.5 C	0.4 C,J-	< 0.05	< 0.05	< 0.5 UJ	ND / ND
	03/12/03	0.3 Cb,J+	< 0.1 UJ	0.2 C,J-	0.3 C,J+	0.2 C,J-	6.1 C,J+	0.1 C,J+	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	2.2 C,J+	0.2 C,J-	0.8 C,J+	NA	< 0.5 UJ	ND / ND
	12/10/02	< 0.097	< 0.097	< 0.097	0.11 C,J-	< 0.049	1.5 C,J-	< 0.049 UJ	< 0.097	< 0.097	< 0.097	0.43 C,J-	< 0.049	0.83 C,J-	NA	< 0.49	ND / ND
1349MW101	03/16/06	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	08/31/05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	05/25/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
DUP0525052A	05/25/05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	03/21/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	12/15/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	03/09/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	**0.06 C**	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	12/02/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	08/19/03	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	06/09/03	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND / ND

Table A-9-4
Results of OCP and PCB Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	alpha-Chlordane	beta-BHC	delta-BHC	Dieldrin	Endosulfan II	Endrin	gamma-BHC	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Meth-oxychlor	All Other OCPs / PCBs
	Analytical Method[1]	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082	SW8081/ SW8081A/ SW8082
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	--	--	--	--	**0.037 [3]**	--	**0.056**	--	--	**0.05**	--	**0.025**	--	--	--
1349MW102	03/07/06	< 0.1	< 0.1	< 0.1 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
DUP0307063C	03/07/06	< 0.1	< 0.1	< 0.1 # UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
1349MW102CL	03/07/06	< 0.1 U R	< 0.1 U R	< 0.1 U R	< 0.05 U UJ	< 0.5 U R	< 0.05 U UJ	< 0.05 U UJ	< 0.1 U R	< 0.1 U R	< 0.1 U R	< 0.05 U UJ	NA	< 0.05 U UJ	< 0.05 U UJ	< 0.5 U R	ND / ND
	08/31/05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	08/31/05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	05/25/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	03/21/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
DUP0321053A	03/21/05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	12/16/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	08/10/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	08/10/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
	05/27/04	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND / ND
DUP0527041A	05/27/04	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND / ND
1349MW102CL	05/27/04	< 0.098	< 0.098	< 0.098	< 0.049	NA	< 0.049	< 0.049	< 0.098	< 0.098	< 0.098	< 0.049	< 0.49	< 0.049	< 0.049	< 0.49	ND / ND
	03/10/04	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.1	< 0.1	< 0.1	< 0.05 UJ	< 0.05	< 0.05 UJ	< 0.05 UJ	< 0.5	ND / ND
DUP0310041A	03/10/04	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	ND / ND
1349MW102CL	03/10/04	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05 UJ	NA	< 0.05 UJ	< 0.05 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.05 UJ	< 0.5 UJ	< 0.05 UJ	< 0.05 UJ	< 0.5 UJ	ND / ND
	12/10/03	< 0.1	< 0.1	< 0.1 b,UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	**0.07 C,J+**	< 0.05	< 0.05 b,UJ	< 0.05	< 0.5 b,UJ	ND / ND
DUP1210031A	12/10/03	< 0.09	< 0.09	< 0.09 b,UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.09	< 0.09	< 0.09	**0.07 J+**	< 0.05	< 0.05 b,UJ	< 0.05	< 0.5 b,UJ	ND / ND
	08/12/03	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05 UJ	< 0.05	< 0.5	ND / ND
	06/09/03	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND / ND
DUP0609032A	06/09/03	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.09 UJ	< 0.09 UJ	< 0.09 UJ	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.5 UJ	ND / ND
1349MW102CL	06/09/03	< 0.095 UJ	< 0.095 UJ	< 0.095 UJ	< 0.048 UJ	NA	< 0.048 UJ	< 0.048 UJ	< 0.095 UJ	< 0.095 UJ	< 0.095 UJ	< 0.048 UJ	< 0.48 UJ	< 0.048 UJ	< 0.048 UJ	< 0.48 UJ	ND / ND

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Groundwater cleanup levels were taken from the *Remedial Action Plan and Evaluation of Alternatives for Landfill 4 and Fill Site 5, Presidio of San Francisco, California* (Treadwell & Rollo, 2002e).
3 - The RAP does not list a cleanup level for beta-BHC; however, the RAP states that when chemicals are encountered in groundwater and cleanup levels are not listed, the default should be Tap Water PRGs.
The Tap Water PRG for beta-BHC (HCH-beta) is 0.037 µg/L.
4 - Monitoring wells 1349MW01, 1349MW02, and 1349MW100 are located upgradient of Fill Site 5, therefore, the cleanup levels do not apply to these wells.
-- - cleanup level not established
µg/L - micrograms per liter
ND - not detected
NA - not analyzed
- The continuing calibration verification (CCV) drifted outside the limits although the average CCV drift was within method requirements.
OCPs - organochlorine pesticides
PCBs - polychlorinated biphenyls
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Bold numbers indicate detected concentrations which exceed cleanup criteria.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-9-5
Results of PAH Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Acena-phthene	Anthracene	Benzo(a)-anthracene	Benzo(a)-Pyrene	Benzo(b)-Fluoranthene	Benzo(g,h,i)-perylene	Benzo(k)-Fluoranthene	Chrysene	Dibenz(a,h)-anthracene	Fluor-anthene	Fluorene	Indeno-(1,2,3-c,d)-pyrene	Naph-thalene	Phen-anthrene	Pyrene	All Other PAHs
	Analytical Method[1]	SW8310/ SW8270	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**770**	**0.1**	**0.2**	**0.2**	**50**	**2**	**20**	**--**	**300**	**300**	**--**	**--**	**230**	**230**	**--**
LF5GW100	03/09/06	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	08/30/05	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	03/28/05	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	08/12/04	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	05/26/04	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	03/15/04	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	12/04/03	< 0.99	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 0.99	< 0.14	< 0.99	< 0.5	< 0.2	ND
	08/14/03	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	06/05/03	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	12/04/02	< 1	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 1	< 0.14	< 1	< 0.5	< 0.2	ND
	08/29/02	< 0.99	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 0.99	< 0.14	< 0.99	< 0.5	< 0.2	ND
	05/30/02	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	03/06/02	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	11/28/01	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	08/30/01	< 1	< 0.52	< 0.1	< 0.1	< 0.21	< 0.21	< 0.1	< 0.1	< 0.21	< 0.42	< 1	< 0.15	< 1	< 0.52	< 0.21	ND
	05/10/01	< 0.96 UJ	< 0.48 UJ	< 0.1 UJ	< 0.1 UJ	< 0.19 UJ	< 0.19 UJ	< 0.1 UJ	< 0.1 UJ	< 0.19 UJ	< 0.38 UJ	< 0.96 UJ	< 0.13 UJ	< 0.96 UJ	< 0.48 UJ	< 0.19 UJ	ND
LF5GW100CL	05/10/01	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.15	< 0.1	< 0.1	< 0.15	< 0.1	< 0.15	ND
	07/21/00	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	ND
LF5GW101	03/09/06	< 1	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 1	< 0.14	< 1	< 0.5	< 0.2	ND
	08/30/05	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	03/28/05	< 0.99	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 0.99	< 0.14	< 0.99	< 0.5	< 0.2	ND
	08/12/04	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	05/26/04	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	03/15/04	< 1	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 1	< 0.14	< 1	< 0.5	< 0.2	ND
	12/04/03	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	08/14/03	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	06/05/03	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	12/04/02	< 1	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 1	< 0.14	< 1	< 0.5	< 0.2	ND
	08/29/02	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	05/30/02	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	03/06/02	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	11/28/01	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	08/30/01	< 1.1	< 0.53	< 0.11	< 0.11	< 0.21	< 0.21	< 0.11	< 0.11	< 0.21	< 0.42	< 1.1	< 0.15	< 1.1	< 0.53	< 0.21	ND
	05/10/01	< 0.97	< 0.49 UJ	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	07/21/00	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	ND

Table A-9-5
Results of PAH Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Acena-phthene	Anthracene	Benzo(a)-anthracene	Benzo(a)-Pyrene	Benzo(b)-Fluoranthene	Benzo(g,h,i)-perylene	Benzo(k)-Fluoranthene	Chrysene	Dibenz(a,h)-anthracene	Fluor-anthene	Fluorene	Indeno-(1,2,3-c,d)-pyrene	Naph-thalene	Phen-anthrene	Pyrene	All Other PAHs
	Analytical Method[1]	SW8310/ SW8270	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**770**	**0.1**	**0.2**	**0.2**	**50**	**2**	**20**	**--**	**300**	**300**	**--**	**--**	**230**	**230**	**--**
LF5GW102	03/09/06	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	08/30/05	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
DUP0830053A	08/30/05	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
LF5GW102CL	08/30/05	< 5 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.5 U	< 0.2 U	< 1 U	< 0.2 U	< 5 U	< 1 U	< 0.2 U	ND
	03/21/05	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	08/11/04	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	05/27/04	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	03/10/04	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	12/03/03	< 0.95	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
DUP1203031A	12/03/03	< 0.98	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
LF5GW102CL	12/03/03	< 0.48	< 0.048	< 0.048	< 0.048	< 0.095	< 0.095	< 0.048	< 0.048	< 0.19	0.14	< 0.095	< 0.048	< 0.48	0.094	0.12	ND
	08/13/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	06/06/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
LF5GW103	03/09/06	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	08/30/05	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	03/15/05	< 1	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 1	< 0.14	< 1	< 0.5	< 0.2	ND
	08/11/04	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	05/27/04	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	03/10/04	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	12/03/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	08/19/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
DUP0819032A	08/19/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
LF5GW103CL	08/19/03	< 0.48	< 0.048	< 0.048	< 0.048	< 0.095	< 0.095	< 0.048	< 0.048	< 0.19	< 0.095	< 0.095	< 0.048	< 0.48	< 0.048	< 0.048	ND
	06/05/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
LF5GW104	03/07/06	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
DUP0307063B	03/07/06	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
LF5GW104CL	03/07/06	< 5 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.5 U	< 0.2 U	< 1 U	< 0.2 U	< 5 U	< 1 U	< 0.2 U	ND
	08/30/05	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	03/15/05	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	08/11/04	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	05/26/04	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	03/10/04	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	12/03/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	08/13/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	06/05/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND

Table A-9-5
Results of PAH Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Acena-phthene	Anthracene	Benzo(a)-anthracene	Benzo(a)-Pyrene	Benzo(b)-Fluoranthene	Benzo(g,h,i)-perylene	Benzo(k)-Fluoranthene	Chrysene	Dibenz(a,h)-anthracene	Fluor-anthene	Fluorene	Indeno-(1,2,3-c,d)-pyrene	Naph-thalene	Phen-anthrene	Pyrene	All Other PAHs
	Analytical Method[1]	SW8310/ SW8270	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**770**	**0.1**	**0.2**	**0.2**	**50**	**2**	**20**	**--**	**300**	**300**	**--**	**--**	**230**	**230**	**--**
1349MW01 [3]	03/16/06	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	03/21/05	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	03/15/04	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	12/02/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	08/21/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	06/10/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	03/12/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	12/09/02	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
DUP1209021A	12/09/02	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
1349MW01CL	12/09/02	< 0.5	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.05	< 0.2	< 0.1	< 0.1	< 0.05	< 0.5	< 0.05	< 0.05	ND
	08/28/02	< 0.99	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 0.99	< 0.14	< 0.99	< 0.5	< 0.2	ND
	05/30/02	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	03/06/02	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	11/28/01	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	08/30/01	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
DUP0830013A	08/30/01	< 1.1	< 0.53	< 0.11	< 0.11	< 0.21	< 0.19	< 0.11	< 0.11	< 0.19	< 0.43	< 1.1	< 0.13	< 1.1	< 0.53	< 0.21	ND
1349MW01CL	08/30/01	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.15	< 0.1	< 0.1	< 0.15	< 0.1	< 0.15	ND
	05/10/01	< 0.95 UJ	< 0.48 UJ	< 0.1 UJ	< 0.1 UJ	< 0.19 UJ	< 0.19 UJ	< 0.1 UJ	< 0.1 UJ	< 0.19 UJ	< 0.38 UJ	< 0.95 UJ	< 0.13 UJ	< 0.95 UJ	< 0.48 UJ	< 0.19 UJ	ND
1349MW02	03/10/06	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	08/31/05	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	05/25/05	< 0.99	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 0.99	< 0.14	< 0.99	< 0.5	< 0.2	ND
	03/21/05	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	03/15/04	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	12/02/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	08/13/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	06/05/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
DUP0605032A	06/05/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	03/12/03	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	12/04/02	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
DUP1204023A	12/04/02	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	08/28/02	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
	05/30/02	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	03/06/02	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
DUP0306022A	03/06/02	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	11/28/01	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
DUP1128011A	11/28/01	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	08/30/01	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
DUP0830012A	08/30/01	< 1	< 0.51	< 0.1	< 0.1	< 0.2	< 0.19	< 0.1	< 0.1	< 0.19	< 0.41	< 1	< 0.13	< 1	< 0.51	< 0.2	ND
1349MW02CL	08/30/01	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.15	< 0.1	< 0.1	< 0.15	< 0.1	< 0.15	ND
	05/10/01	< 0.97	< 0.49 UJ	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND

Table A-9-5
Results of PAH Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Acena-phthene	Anthracene	Benzo(a)-anthracene	Benzo(a)-Pyrene	Benzo(b)-Fluoranthene	Benzo(g,h,i)-perylene	Benzo(k)-Fluoranthene	Chrysene	Dibenz(a,h)-anthracene	Fluor-anthene	Fluorene	Indeno-(1,2,3-c,d)-pyrene	Naph-thalene	Phen-anthrene	Pyrene	All Other PAHs
	Analytical Method[1]	SW8310/ SW8270	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**770**	**0.1**	**0.2**	**0.2**	**50**	**2**	**20**	**--**	**300**	**300**	**--**	**--**	**230**	**230**	**--**
1349MW03R	03/16/06	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	08/31/05	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	03/21/05	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	03/09/04	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	12/02/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	08/13/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	06/09/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
1349MW100 [3]	05/24/06	3.6	0.2 J	0.11	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	1.6	7.5	< 0.14	< 1	4.9	0.38	ND
DUP0524063A	05/24/06	4.3	0.28 J	0.14	< 0.1	< 0.2	< 0.2	< 0.1	0.1	< 0.2	1.8	8.4	< 0.14	< 0.98	5.8	0.48	ND
1349MW100CL	05/24/06	5.6 P J-	0.24 P J-	0.48 P J-	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.5 U UJ	0.38 P J-	4 J-	< 0.2 U UJ	< 5 U UJ	3.5 J-	0.44 P J-	ND
	03/16/06	6.6	0.36 J	0.35	< 0.1	< 0.19	< 0.19	< 0.1	0.29	< 0.19	2.3	10	< 0.13	< 0.96	9	0.75	ND
	11/30/05	12 J+	2.8 J+	3.7 J+	< 0.09	0.74 J+	< 0.19	0.31 J+	4.1 J+	< 0.19	22 J+	29 J+	< 0.13	< 0.94	63 J+	7.8 J+	ND
	08/31/05	10 J+	< 0.48	1.3 J+	< 0.1	< 0.19	< 0.19	< 0.1	0.74 J+	< 0.19	11 J+	< 0.95	< 0.13	< 0.95	9.2 J+	0.65 J+	ND
	05/25/05	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	0.78 J+	18 J+	< 0.13	< 0.94	8.4 J+	0.34 J+	ND
	03/23/05	< 0.95	< 0.48	< 0.1	0.63 J+	4.8 J+	< 0.19	0.85 J+	< 0.1	1.7 J+	5.4 J+	22	< 0.13	< 0.95	34	3.8 J+	ND
	03/16/04	< 19	< 9.4	6.2	< 1.9	< 3.8	< 3.8	< 1.9	2.7	< 3.8	14	46	< 2.6	< 19	86	< 3.8	ND
	12/02/03	< 0.95	0.59 J,J+	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	0.32 J+	< 0.19	0.96 J+	11 J+	< 0.13	< 0.95	9.6 J+	0.28 J+	ND
	08/12/03	< 0.95	1.1 J+	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	0.81 J+	< 0.19	1.7 J+	19 J+	< 0.13	< 0.95	18 J+	0.51 J+	ND
	06/09/03	< 0.94	< 0.47	0.53 J+	< 0.09	< 0.19	< 0.19	< 0.09	1 J+	< 0.19	2.4 J+	13 J+	< 0.13	7.5 J+	17 J+	0.75 J+	ND
	03/12/03	< 0.98	< 0.49	0.14	< 0.1	< 0.2	< 0.2	< 0.1	0.16	< 0.2	< 0.39	5.2	< 0.14	< 0.98	5.3	0.27	ND
	12/10/02	< 0.94	0.25 J	0.15	< 0.09	< 0.19	< 0.19	< 0.09	0.17	< 0.19	0.43	4	< 0.13	< 0.94	4.2	0.23	ND
1349MW101	03/16/06	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
	08/31/05	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	03/21/05	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	03/09/04	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
	12/02/03	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
	08/19/03	< 0.95 UJ	< 0.48 UJ	< 0.1 UJ	< 0.1 UJ	< 0.19 UJ	< 0.19 UJ	< 0.1 UJ	< 0.1 UJ	< 0.19 UJ	< 0.38 UJ	< 0.95 UJ	< 0.13 UJ	< 0.95 UJ	< 0.48 UJ	< 0.19 UJ	ND
	06/09/03	< 0.94 UJ	< 0.47 UJ	< 0.09 UJ	< 0.09 UJ	< 0.19 UJ	< 0.19 UJ	< 0.09 UJ	< 0.09 UJ	< 0.19 UJ	< 0.38 UJ	< 0.94 UJ	< 0.13 UJ	< 0.94 UJ	< 0.47 UJ	< 0.19 UJ	ND
1349MW102	03/07/06	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
DUP0307063C	03/07/06	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
1349MW102CL	03/07/06	< 5 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.2 U UJ	< 0.5 U UJ	< 0.2 U UJ	< 1 U UJ	< 0.2 U UJ	< 5 U UJ	< 1 U UJ	< 0.2 U UJ	ND
	08/31/05	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
DUP0831052A	08/31/05	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	03/21/05	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
DUP0321053A	03/21/05	< 1	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 1	< 0.14	< 1	< 0.5	< 0.2	ND
	03/10/04	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.98	< 0.14	< 0.98	< 0.49	< 0.2	ND
DUP0310041A	03/10/04	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.97	< 0.14	< 0.97	< 0.49	< 0.19	ND
1349MW102CL	03/10/04	< 0.5	< 0.05	< 0.05	< 0.05 R	< 0.1 UJ	< 0.1 UJ	< 0.05 UJ	< 0.05	< 0.2 UJ	< 0.1	< 0.1	< 0.05 UJ	< 0.5	< 0.05	< 0.05	ND
	12/10/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
DUP1210031A	12/10/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.94	< 0.13	< 0.94	< 0.47	< 0.19	ND
	08/12/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND

Table A-9-5
Results of PAH Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Acena-phthene	Anthracene	Benzo(a)-anthracene	Benzo(a)-Pyrene	Benzo(b)-Fluoranthene	Benzo(g,h,i)-perylene	Benzo(k)-Fluoranthene	Chrysene	Dibenz(a,h)-anthracene	Fluor-anthene	Fluorene	Indeno-(1,2,3-c,d)-pyrene	Naph-thalene	Phen-anthrene	Pyrene	All Other PAHs
	Analytical Method[1]	SW8310/ SW8270	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310	SW8310
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**770**	**0.1**	**0.2**	**0.2**	**50**	**2**	**20**	**--**	**300**	**300**	**--**	**--**	**230**	**230**	**--**
1349MW102	06/09/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.95	< 0.13	< 0.95	< 0.48	< 0.19	ND
DUP0609032A	06/09/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.96	< 0.13	< 0.96	< 0.48	< 0.19	ND
1349MW102CL	06/09/03	< 0.48	< 0.048	< 0.048	< 0.048	< 0.095	< 0.095	< 0.048	< 0.048	< 0.19	< 0.095	< 0.095	< 0.048	< 0.48	< 0.048	< 0.048	ND

Notes

1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.

2 - Groundwater cleanup levels were taken from the *Remedial Action Plan and Evaluation of Alternatives for Landfill 4 and Fill Site 5, Presidio of San Francisco, California* (Treadwell & Rollo, 2002e).

3 - Monitoring wells 1349MW01, 1349MW02, and 1349MW100 is located upgradient of Fill Site 5, therefore, the cleanup levels do not apply to these wells.
-- - cleanup level not established
Bold numbers indicate concentrations which exceed cleanup criteria.
µg/L - micrograms per liter
ND - not detected
NA - not analyzed
PAHs - polycyclic aromatic hydrocarbons
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-9-6
Results of Chlorinated Herbicide Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	2,4-D	2,4-DB	All Other Chlorinated Herbicides
	Analytical Method[1]	SW8151/ SW8151A	SW8151/ SW8151A	SW8151/ SW8151A
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	--	--
LF5GW100	08/30/05	< 0.25 U	< 1 U	ND
	03/28/05	< 0.25 U	< 1 U	ND
	08/12/04	< 0.24 U UJ	< 0.96 U UJ	ND
	05/26/04	< 0.24 U	< 0.96 U	ND
	03/15/04	< 0.24 U	< 0.96 U	ND
	12/04/03	< 0.24 U	< 0.96 U	ND
	08/14/03	< 0.24	< 0.96	ND
	06/05/03	< 0.24	< 0.96	ND
LF5GW101	08/30/05	< 0.25 U	< 1 U	ND
	03/28/05	< 0.25 U	< 1 U	ND
	08/12/04	< 0.24 U	< 0.96 U	ND
	05/26/04	< 0.24 U	< 0.96 U	ND
	03/15/04	< 0.24 U	< 0.96 U	ND
	12/04/03	< 0.24 U	< 0.96 U	ND
	08/14/03	< 0.24	< 0.96	ND
	06/05/03	< 0.24	< 0.96	ND
LF5GW102	08/30/05	< 0.25 U	< 1 U	ND
	08/30/05	< 0.25 U	< 1 U	ND
	08/30/05	< 1 U	< 1 U	ND
	03/21/05	< 0.25 U	< 1 U	ND
	08/11/04	< 0.24 U	< 0.96 U	ND
	05/27/04	< 0.24 U	< 0.96 U	ND
	03/10/04	< 0.24 U	< 0.96 U	ND
	12/03/03	< 0.24 U	< 0.96 U	ND
DUP1203031A	12/03/03	< 0.24 U	< 0.96 U	ND
LF5GW102CL	12/03/03	< 0.24	< 0.24	ND
	08/13/03	< 0.24	< 0.96	ND
	06/06/03	< 0.24	< 0.96	ND
LF5GW103	08/30/05	< 0.25 U	< 1 U	ND
	03/15/05	< 0.24 U	< 0.96 U	ND
	08/11/04	< 0.24 U	< 0.96 U	ND
	05/27/04	< 0.24 U	< 0.96 U	ND
	03/10/04	< 0.24 U	< 0.96 U	ND
	12/03/03	< 0.24 U	< 0.96 U	ND
	08/19/03	< 0.25	< 1	ND
DUP0819032A	08/19/03	< 0.24	< 0.96	ND
LF5GW103CL	08/19/03	< 0.24 UJ	< 0.24 UJ	ND
	06/05/03	< 0.24	< 0.96	ND

Table A-9-6
Results of Chlorinated Herbicide Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	2,4-D	2,4-DB	All Other Chlorinated Herbicides
	Analytical Method[1]	SW8151/ SW8151A	SW8151/ SW8151A	SW8151/ SW8151A
		(µg/L)	(µg/L)	(µg/L)
LF5GW104	08/30/05	< 0.25 U	< 1 U	ND
	03/15/05	< 0.24 U	< 0.96 U	ND
	08/11/04	< 0.24 U UJ	< 0.96 U UJ	ND
	05/26/04	< 0.24 U	< 0.96 U	ND
	03/10/04	< 0.24 U	< 0.96 U	ND
	12/03/03	< 0.24 U	< 0.96 U	ND
	08/13/03	< 0.24	< 0.96	ND
	06/05/03	< 0.24	< 0.96	ND
1349MW01 [3]	03/15/04	< 0.24 U	< 0.96 U	ND
	12/02/03	< 0.24 U	< 0.96 U	ND
	08/21/03	< 0.25	< 1	ND
	06/10/03	< 0.24	< 0.96	ND
1349MW02 [3]	08/31/05	< 0.25 U	< 1 U	ND
	03/21/05	< 0.25 U	< 1 U	ND
	12/16/04	< 0.25 U	< 1 U	ND
	08/12/04	< 0.24 U UJ	< 0.96 U UJ	ND
	05/26/04	< 0.24 U	< 0.96 U	ND
	03/15/04	< 0.24 U	< 0.96 U	ND
	12/02/03	< 0.24 U	< 0.96 U	ND
	08/13/03	< 0.24	< 0.96	ND
	06/05/03	< 0.24	< 0.96	ND
DUP0605032A	06/05/03	< 0.24	< 0.96	ND
1349MW03R	08/31/05	< 0.25 U	< 1 U	ND
	03/21/05	< 0.25 U	< 1 U	ND
	08/10/04	< 0.24 U	< 0.96 U	ND
	05/26/04	< 0.24 U	< 0.96 U	ND
	03/09/04	< 0.24 U	< 0.96 U	ND
	12/02/03	< 0.24 U	< 0.96 U	ND
	08/13/03	< 0.24	< 0.96	ND
	06/09/03	< 0.24	< 0.96	ND
1349MW100 [3]	08/31/05	< 0.25 U	< 1 U	ND
	03/23/05	< 0.25 U	< 1 U	ND
	08/10/04	< 0.24 U	< 0.96 U	ND
	05/27/04	< 0.24 U	< 0.96 U	ND
	03/16/04	< 0.24 U	< 0.96 U	ND
	12/02/03	< 0.24 U	< 0.96 U	ND
	08/12/03	2.1	12	ND
	06/09/03	< 0.24	< 0.96	ND
1349MW101	08/31/05	< 0.25 U	< 1 U	ND
	03/21/05	< 0.25 U	< 1 U	ND
	03/09/04	< 0.24 U	< 0.96 U	ND
	12/02/03	< 0.24 U	< 0.96 U	ND
	08/19/03	< 0.24	< 0.96	ND
	06/09/03	< 0.24	< 0.96	ND

Table A-9-6
Results of Chlorinated Herbicide Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	2,4-D	2,4-DB	All Other Chlorinated Herbicides
	Analytical Method[1]	SW8151/ SW8151A	SW8151/ SW8151A	SW8151/ SW8151A
		(µg/L)	(µg/L)	(µg/L)
1349MW102	08/31/05	< 0.25 U	< 1 U	ND
	08/31/05	< 0.25 U	< 1 U	ND
	03/21/05	< 0.25 U	< 1 U	ND
	08/10/04	< 0.24 U	< 0.96 U	ND
	05/27/04	< 0.24 U	< 0.96 U	ND
DUP0527041A	05/27/04	< 0.24 U	< 0.96 U	ND
1349MW102CL	05/27/04	< 0.24	< 0.24	ND
	03/10/04	< 0.24 U	< 0.96 U	ND
DUP0310041A	03/10/04	< 0.24 U	< 0.96 U	ND
1349MW102CL	03/10/04	< 0.25 UJ	< 0.25 UJ	ND
	12/10/03	< 0.24 U	< 0.96 U	ND
DUP1210031A	12/10/03	< 0.24 U	< 0.96 U	ND
	08/12/03	< 0.25	< 1	ND
	06/09/03	< 0.24	< 0.96	ND
DUP0609032A	06/09/03	< 0.24	< 0.96	ND
1349MW102CL	06/09/03	< 0.24 UJ	< 0.24 UJ	ND

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Groundwater cleanup levels were taken from the *Remedial Action Plan and Evaluation of Alternatives for Landfill 4 and Fill Site 5, Presidio of San Francisco, California* (Treadwell & Rollo, 2002e).
3 - Monitoring wells 1349MW01, 1349MW02, and 1349MW100 are located upgradient of Fill Site 5, therefore, the cleanup levels do not apply to these wells.
µg/L - micrograms per liter
ND - Not detected
NA - Not analyzed
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historic data qualifiers.

Table A-9-7
Results of Total and Dissolved Metals Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium [2]	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method [1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7040/ SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [3]		**--**	**6**	**50**	**1,000**	**4**	**1.1**	**250,000**	**50**	**--**	**11.8**	**11**	**--**	**3.2**	**--**	**--**	**0.012**	**100**	**--**	**5**	**4.1**	**--**	**2**	**--**	**106**	**--**
LF5GW100	03/09/06	< 100	< 1	< 5	38 J	< 2	< 1	19,000	22	< 10	< 1	NA	< 100 UJ	< 3	140,000	< 10	< 0.2	< 20	870 J	< 5	< 1	130,000	< 1	< 10	< 20	1,040
	08/30/05	< 100 UJ	< 1	< 5	35	< 2	< 1	18,000	21	< 10	< 1	NA	130	< 3	140,000	< 10	< 0.2	< 20	870	< 5	< 1	130,000	< 1	< 10	< 20	920
	05/26/05	< 100	< 1	< 5	33	< 2	< 1	19,000	21	< 10	< 1	NA	< 100	< 3	140,000 J	< 10	< 0.2	< 20	860	< 5	< 1	130,000 J	< 1	< 10	< 20	740
DUP0526051A	05/26/05	< 100	< 1	< 5	36	< 2	< 1	17,000	23	< 10	< 1	NA	< 100	< 3	140,000 J	< 10	< 0.2	< 20	760	< 5	< 1	130,000 J	< 1	< 10	< 20	770
LF5GW100CL	05/26/05	< 100 U	< 2 U	< 2 U	34.9	< 1 U	< 1 U	17,900	24.3	< 1 U	< 2 U	NA	< 100 U	< 1 U	144,000	< 10 U	< 0.2 U	< 2 U	< 5,000 U	< 2 U	< 1 U	138,000	< 1 U	< 10 U	< 20 U	957
	03/28/05	< 100	< 1	< 5	35	< 2	< 1	17,000	18	< 10	< 1	NA	< 100	< 3	130,000	< 10	< 0.2	< 20	820	< 5	< 1	120,000	< 1	< 10	< 20	970
	12/16/04	< 100	< 1	< 5	31	< 2	< 1	18,000	22	< 10	< 1	NA	< 100	< 3	140,000	< 10	< 0.2	< 20	790	< 5	< 1	130,000	< 1	< 10	< 20	880
DUP1216041A	12/16/04	< 101	< 1	< 5	32	< 2	< 1	18,000	22	< 10	< 1	NA	< 100	< 3	150,000	< 11	< 0.3	< 21	800	< 5	< 1	140,000	< 1	< 10	< 20	870
	08/12/04	< 100	< 1	< 5	31	< 2	< 1	18,000	19	< 10	< 1	NA	< 100	< 3	130,000	< 10	< 0.2	< 20	850	< 5	< 1	120,000	< 1	< 10	< 20	950
	05/26/04	< 100	< 1	< 5	33	< 2	< 1	17,000	20	< 10	< 1	NA	< 100	< 3	140,000	< 10	< 0.2	< 20	820	< 5	< 1	140,000	< 1	< 10	< 20	850
	03/15/04	< 100	< 1	< 5	26 J-	< 2	< 1	18,000	16	< 10	5.2	NA	< 100	< 3	150,000	< 10	< 0.2	< 20	810	< 5	< 1	140,000	< 1	< 10	< 20	910
	12/04/03	< 100	< 1	< 5	36	< 2	< 1	15,000	19	< 10	< 1	NA	< 100	< 3	150,000	< 10	< 0.2	< 20	880	< 5	< 1	130,000	< 1	< 10	< 20	730
	08/14/03	< 100	1.6	< 5	28	< 2	< 1	16,000	17	< 10	< 1	NA	< 100	< 3	130,000	< 10	< 0.2	< 20	830	< 5	< 1 UJ	120,000	< 1	< 10	< 20	960
	06/05/03	< 100	< 1	< 5	31	< 2	< 1	18,000	25	< 10	< 1	NA	< 100	< 3	140,000	< 10	< 0.2	< 20	840	< 5	< 1 UJ	130,000	< 1	< 10	41	890
	12/04/02	< 100	< 1	< 1	31	< 1	< 1	16,000	16	< 1	< 1	10	< 100	< 3	130,000	< 10	< 0.2	2.2	890	< 5	< 1 UJ	120,000	< 1	< 10	< 10	910
	08/29/02	< 100	< 1	1.1	380	< 1	< 1	19,000	17 J	< 1	< 1	**20**	< 100	< 3	150,000	< 10	< 0.2	2.3	1,100	< 5	< 1 UJ	140,000	< 1	< 10	36	960
	05/30/02	< 100	1	1.1	490	< 1	< 1	18,000	20	< 1	< 1	**20 J-**	< 100	< 3	150,000	< 10	< 0.2	2	1,300	< 5	< 1 UJ	140,000	< 1	< 10	33	950
	03/06/02	< 100	1.9	1.3	580	< 1	< 1	17,000	19	< 1	< 1	**20**	< 100	< 3	190,000	< 10	< 0.2	2.5	1,300	< 5	< 1 UJ	150,000	< 1	< 10	22	910
	11/28/01	< 100	1.5	1.5	760	< 1	< 1	21,000	42 J	< 1	1.5	**20**	< 100	< 3	160,000	< 10	< 0.2	2.9	1,600	< 5	< 1	150,000	< 1	< 10	29	930
	08/30/01	< 100	2.8	1	530 J+	< 1	< 1	18,000	29	< 1	1.5	**20**	< 100	< 3	170,000	< 10	< 0.2	3.2	1,100	< 5	< 1 UJ	150,000	< 1	< 10	21	NA
	05/10/01	< 100	< 1	1.4	100	< 1	< 1	17,000	49 J	< 1	4.6 J	< 10	150	< 3	150,000	< 10	< 0.2	25 J	1,600	< 5	< 1 UJ	140,000	< 1	< 10	48 J	790
LF5GW100CL	05/10/01	200	< 2	< 2	670	< 1	< 1	19,000	49	< 1	< 2	**40**	< 200	< 5	120,000	5.9	< 0.2	25	2,100	< 5	< 1	120,000	< 1	< 5	50	730
	07/21/00	NA	< 60	5.4	< 10	< 2	**< 5**	NA	38	< 20	< 10	**40**	NA	< 3	NA	NA	< 0.2	< 20	NA	< 5	< 5	NA	< 5	< 10	< 20	890
LF5GW101	03/09/06	< 100	< 1	< 5	46 J	< 2	< 1	18,000	**53**	< 10	< 1	NA	< 100 UJ	< 3	130,000	< 10	< 0.2	< 20	1,300 J	< 5	< 1	120,000	< 1	< 10	< 20	1,090
	12/02/05	< 100	< 1	< 5	48	< 2	< 1	19,000	48	< 10	< 1	NA	120	< 3	110,000	< 10	< 0.2	< 20	1,100	< 5	< 1	110,000	< 1	< 10	< 20	NA
	08/30/05	< 100 UJ	< 1	< 5	52	< 2	< 1	20,000	**53**	< 10	< 1	NA	140	< 3	110,000	< 10	< 0.2	< 20	1,200	< 5	< 1	110,000	< 1	< 10	< 20	770
	05/26/05	< 100	< 1	< 5	49	< 2	< 1	18,000	**52**	< 10	< 1	NA	< 100	< 3	130,000 J	< 10	< 0.2	< 20	1,200	< 5	< 1	120,000 J	< 1	< 10	< 20	620
	03/28/05	< 100	< 1	< 5	48	< 2	< 1	18,000	**51**	< 10	< 1	NA	< 100	< 3	120,000	< 10	< 0.2	< 20	1,200	< 5	< 1	110,000	< 1	< 10	< 20	870
	12/16/04	< 100	< 1	< 5	49	< 2	< 1	19,000	**54**	< 10	1.2	NA	< 100	< 3	120,000	< 10	< 0.2	< 20	1,100	< 5	< 1	110,000	< 1	< 10	< 20	640
	08/12/04	< 100	1.4	< 5	51	< 2	< 1	18,000	**52**	< 10	2.5	NA	< 100	< 3	120,000	< 10	< 0.2	< 20	1,200	< 5	< 1	110,000	< 1	< 10	< 20	790
	05/26/04	< 100	< 1	< 5	46	< 2	< 1	19,000	**51**	< 10	< 1	NA	< 100	< 3	120,000	< 10	< 0.2	< 20	1100	< 5	< 1	120,000	< 1	< 10	< 20	740
	03/15/04	< 100	< 1	< 5	45 J-	< 2	< 1	21,000	**50**	< 10	< 1	NA	< 100	< 3	140,000	< 10	< 0.2	< 20	1,200	< 5	< 1	130,000	< 1	< 10	< 20	810
	12/04/03	< 100	1.3	< 5	48	< 2	< 1	17,000	**50**	< 10	< 1	NA	< 100	< 3	120,000	< 10	< 0.2	< 20	1,200	< 5	< 1	110,000	**< 1**	< 10	< 20	770
	08/14/03	< 100	1.2	< 5	47	< 2	< 1	19,000	**53**	< 10	< 1	NA	< 100	< 3	120,000	< 10	< 0.2	< 20	1,100	< 5	< 1 UJ	110,000	< 1	< 10	< 20	630
	06/05/03	< 100	< 1	< 5	41	< 2	< 1	19,000	48	< 10	< 1	NA	< 100	< 3	120,000	< 10	< 0.2	< 20	1,100	< 5	< 1 UJ	110,000	< 1	< 10	< 20	810
	12/04/02	< 100	< 1	1.3	45	< 1	< 1	20,000	**51**	< 1	< 1	**40**	< 100	< 3	110,000	< 10	< 0.2	4.8	1,200	< 5	< 1 UJ	100,000	< 1	< 10	< 10	780
	08/29/02	< 100	< 1	1.1	430	< 1	< 1	21,000	**51 J**	< 1	< 1	**50**	< 100	< 3	130,000	< 10	< 0.2	5.5	1,400	< 5	< 1 UJ	120,000	< 1	< 10	37	750
	05/30/02	< 100	1.7	1.1	400	< 1	< 1	20,000	46	< 1	< 1	**50 J-**	< 100	< 3	120,000	< 10	< 0.2	5.5	1,600	< 5	< 1 UJ	120,000	< 1	< 10	32	850
	03/06/02	< 100	1.2	1.7	460	< 1	< 1	18,000	**53**	< 1	< 1	**50**	< 100	< 3	160,000	< 10	< 0.2	3.8	1,500	< 5	1.7 J-	140,000	< 1	< 10	24	770
	11/28/01	< 100	< 1	1.8	42	< 1	< 1	20,000	**58 J**	< 1	< 1	**50**	< 100	< 3	130,000	< 10	< 0.2	6.9	1,500	< 5	< 1	130,000	< 1	< 10	< 10	790
	08/30/01	< 100	1.1	1.3	350 J+	< 1	< 1	19,000	**57**	< 1	1.7	< 10	< 100	< 3	140,000	< 10	< 0.2	7.5	1,600	< 5	< 1 UJ	130,000	< 1	< 10	23	NA
	05/10/01	< 100	< 1	1.2	680	< 1	< 1	19,000	44 J	< 1	6.3 J	< 10	170	< 3	140,000	< 10	< 0.2	5 J	1,700	< 5	< 1 UJ	140,000	< 1	< 10	69 J	1,290
	07/21/00	NA	< 60	5.2	12	< 2	**< 5**	NA	31	< 20	< 10	**30**	NA	< 3	NA	NA	< 0.2	< 20	NA	< 5	< 5	NA	< 5	< 10	< 20	1,060

Table A-9-7
Results of Total and Dissolved Metals Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium [2]	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method [1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7040/ SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [3]		**--**	**6**	**50**	**1,000**	**4**	**1.1**	**250,000**	**50**	**--**	**11.8**	**11**	**--**	**3.2**	**--**	**--**	**0.012**	**100**	**--**	**5**	**4.1**	**--**	**2**	**--**	**106**	**--**
LF5GW102	03/09/06	< 100	< 1	< 5	< 10 UJ	< 2	< 1	2,100	< 10	< 10	< 1	NA	< 100 UJ	< 3	100,000	< 10	< 0.2	< 20	4,300 J	< 5	< 1	100,000	< 1	< 10	< 20	850
	08/30/05	< 100 UJ	< 1	< 5	< 10	< 2	< 1	2,300	< 10	< 10	1.7	NA	< 100	< 3	89,000	< 10	< 0.2	< 20	4,900	< 5	< 1	100,000	< 1	< 10	< 20	560
DUP0830053A	08/30/05	< 100 UJ	< 1	< 5	< 10	< 2	< 1	2,600	< 10	< 10	< 1	NA	230	< 3	97,000	< 10	< 0.2	< 20	5,000	< 5	< 1	110,000	< 1	< 10	< 20	580
LF5GW102CL	08/30/05	< 100 U	< 2 U	2.11	< 10 U	< 1 U	< 1 U	2,350	< 10 U	< 1 U	< 2 U	NA	< 100 U	< 1 U	99,300	< 10 U	< 0.2 U	< 2 U	< 5,000 U	< 2 U	< 1 U	109,000	< 1 U	< 10 U	< 20 U	652
	05/26/05	< 100	< 1	< 5	< 10	< 2	< 1	2,400	< 10	< 10	< 1	NA	< 100	< 3	98,000 J	< 10	< 0.2	< 20	4,500	< 5	< 1	100,000 J	< 1	< 10	< 20	390
	03/21/05	< 100	< 1	< 5	< 10	< 2	< 1	2,300	< 10	< 10	1	NA	< 100	< 3	91,000	< 10	< 0.2	< 20	4,900	< 5	< 1	100,000	< 1	< 10	< 20	610
	12/14/04	< 100	< 1	5.8	< 10	< 2	< 1	2,500 J	< 10	< 10	< 1	NA	< 100	< 3	93,000	< 10	< 0.2	< 20	6,000	< 5	< 1	110,000	< 1	< 10	< 20	640
	08/11/04	< 100	< 1	< 5	< 10 UJ	< 2	< 1	2,700	< 10	< 10	< 1	NA	< 100	< 3	91,000	< 10	< 0.2	< 20	5,800	< 5	< 1	110,000	< 1	< 10	< 20	660
	05/27/04	< 100	< 1	< 5	< 10	< 2	< 1	2,900	< 10	< 10	< 1	NA	< 100	< 3	110,000	< 10	< 0.2	< 20	6,000	< 5	< 1	130,000	< 1	< 10	< 20	670
	03/10/04	< 100	< 1	< 5	< 10	< 2	< 1	3,400	< 10	< 10	< 1	NA	< 100	< 3	97,000	< 10	< 0.2	< 20	5,600	< 5	< 1 UJ	120,000	< 1	< 10	< 20	640
	12/03/03	< 100	2.2	< 5	< 10	< 2	< 1	5,800	< 10	< 10	< 1	NA	< 100	< 3	76,000	< 10	< 0.2	< 20	8,500	< 5	< 1 UJ	140,000	< 1	14	< 20	610
DUP1203031A	12/03/03	< 100	1.1	< 5	< 10	< 2	< 1	5,900	< 10	< 10	< 1	NA	< 100	< 3	78,000	< 10	< 0.2	< 20	8,500	< 5	< 1 UJ	150,000	< 1	14	< 20	700
LF5GW102CL	12/03/03	< 1,000	< 5	9.1	< 10	< 1	< 1	6,000	< 10	< 7	< 10	NA	< 500	< 3	83,000	12	< 0.2	< 10	8,800	< 5	< 1	140,000	< 2	17	< 20	680
	08/13/03	< 100	2.2	5.9	< 10	< 2	< 1	11,000	< 10	< 10	1.4	NA	< 100	< 3	51,000	21	< 0.2	< 20	11,000	< 5	< 1 UJ	230,000	< 1	< 10	< 20	750
	06/06/03	< 100	1.4	6.1	< 10	< 2	< 1	15,000	< 10	< 10	< 1	NA	< 100	< 3	54,000	20	< 0.2	< 20	12,000	< 5	< 1 UJ	260,000	< 1	< 10	< 20	1,070
LF5GW103	03/09/06	< 100	< 1	< 5	74 J	< 2	< 1	23,000	50	< 10	< 1	NA	< 100 UJ	< 3	95,000	< 10	< 0.2	< 20	1,200 J	< 5	< 1	96,000	< 20	< 10	< 20	700
	08/30/05	< 100 UJ	< 1	< 5	74	< 2	< 1	25,000	49	< 10	< 1	NA	140	< 3	93,000	< 10	< 0.2	< 20	1,200	< 5	< 1	97,000	< 1	< 10	< 20	640
	05/24/05	< 100 UJ	< 1	< 5	73	< 2	< 1	25,000	48	< 10	< 1	NA	< 100	< 3	98,000	< 10	< 0.2	< 20	1,200	< 5	< 1	100,000	< 1	< 10	< 20	840
	03/15/05	< 100	< 1	< 5	73	< 2	< 1	29,000	47	< 10	< 1	NA	200	< 3	120,000	< 10	< 0.2	< 20	1,200	< 5	< 1	120,000	< 1	< 10	< 20	630
	12/14/04	< 100	< 1	< 5	58	< 2	< 1	24,000 J	46	< 10	< 1	NA	< 100	< 3	99,000	< 10	< 0.2	< 20	1,200	< 5	< 1	100,000	< 1	< 10	< 20	730
	08/11/04	< 100	< 1	< 5	62 J	< 2	< 1	26,000	46	< 10	< 1	NA	< 100	< 3	93,000	< 10	< 0.2	< 20	1,200	< 5	< 1	92,000	< 1	< 10	< 20	650
	05/27/04	< 100	< 1	< 5	71	< 2	< 1	27,000	49	< 10	< 1	NA	< 100	< 3	110,000	< 10	< 0.2	< 20	1100	< 5	< 1	110,000	< 1	< 10	< 20	740
	03/10/04	< 100	< 1	< 5	70	< 2	< 1	26,000	45	< 10	< 1	NA	< 100	< 3	95,000	< 10	< 0.2	< 20	1,100	< 5	< 1 UJ	96,000	< 1	< 10	< 20	700
	12/03/03	< 100	2	< 5	67	< 2	< 1	26,000	47	< 10	< 1	NA	130	< 3	95,000	< 10	< 0.2	< 20	1,200	< 5	< 1 UJ	100,000	< 1	< 10	< 20	670
	08/19/03	< 100	< 1	< 5	57	< 2	< 1	25,000	48	< 10	< 1	NA	140	< 3	97,000	< 10	< 0.2	< 20	1,200	< 5	< 1 UJ	97,000	< 1	< 10	< 20 UJ	760
DUP0819032A	08/19/03	< 100	1.5	< 5	56	< 2	< 1	25,000	47	< 10	< 1	NA	110	< 3	100,000	< 10	< 0.2	< 20	1,100	< 5	< 1 UJ	100,000	< 1	< 10	< 20 UJ	720
LF5GW103CL	08/19/03	< 100	< 5	< 5	51	< 1	< 1	25,000	**56**	< 7	< 10	NA	< 500 UJ	< 3	99,000	18	< 0.2	13	1,300	< 5	< 1	100,000	< 2	< 10	< 20	760
	06/05/03	< 100	1.2	< 5	44	< 2	< 1	25,000	45	< 10	< 1	NA	< 100	< 3	99,000	< 10	< 0.2	< 20	1,300	< 5	< 1 UJ	97,000	< 1	< 10	< 20	700
LF5GW104	03/07/06	< 100	< 1	< 5	110	< 2	< 1	31,000 J	36	< 10	< 1	NA	160	< 3	120,000	< 10	NA	< 20	930	< 5	< 1	130,000	< 1	< 10	< 20	970
DUP0307063B	03/07/06	< 100	< 1	< 5	110	< 2	< 1	30,000 J	35	< 10	< 1	NA	150	< 3	110,000	< 10	NA	< 20	930	< 5	< 1	130,000	< 1	< 10	< 20	860
LF5GW104CL	03/07/06	< 100 U	< 2 U	< 2 U	130	< 1 U	< 1 U	38,000	40	< 1 U	< 2 U	NA	< 100 U	< 1 U	130,000	< 10 U	**0.625**	4.8	< 5000 U	2.9	< 1 U	150,000	< 1 U	< 10 U	< 20 U	982 J+
	08/30/05	< 100 UJ	< 1	< 5	110	< 2	< 1	32,000	35	< 10	< 1	NA	140	< 3	100,000	< 10	< 0.2	< 20	920	< 5	< 1	120,000	< 1	< 10	< 20	810
	05/24/05	< 100 UJ	< 1	< 5	120	< 2	< 1	41,000	37	< 10	< 1	NA	< 100	< 3	130,000	< 10	< 0.2	< 20	1,100	< 5	< 1	140,000	< 1	< 10	< 20	990
	03/15/05	< 100	< 1	< 5	100	< 2	< 1	41,000	31	< 10	< 1	NA	< 100	< 3	130,000	< 10	< 0.2	< 20	1,200	< 5	< 1	140,000	< 1	< 10	< 20	900
	12/14/04	< 100	< 1	< 5	72	< 2	< 1	28,000 J	33	< 10	< 1	NA	< 100	< 3	93,000	< 10	< 0.2	< 20	950	< 5	< 1	120,000	< 1	< 10	< 20	790
	08/11/04	< 100	< 1	< 5	64 J	< 2	< 1	32,000	34	< 10	1.1	NA	< 100	< 3	96,000	< 10	< 0.2	< 20	1,000	< 5	< 1	110,000	< 1	< 10	< 20	790
	05/26/04	< 100	< 1	< 5	92	< 2	< 1	67,000	35	< 10	< 1	NA	< 100	< 3	220,000	< 10	< 0.2	< 20	930	< 5	< 1	260,000	< 1	< 10	< 20	860
	03/10/04	< 100	< 1	< 5	99	< 2	< 1	39,000	33	< 10	< 1	NA	120	< 3	120,000	< 10	< 0.2	< 20	1,200	< 5	< 1 UJ	130,000	< 1	< 10	< 20	890
	12/03/03	< 100	2.7	< 5	75	< 2	< 1	30,000	34	< 10	< 1	NA	130	< 3	91,000	< 10	< 0.2	< 20	1,000	< 5	< 1 UJ	120,000	< 1	< 10	< 20	750
	08/13/03	< 100	2.4	< 5	52	< 2	< 1	29,000	36	< 10	< 1	NA	130	< 3	95,000	< 10	< 0.2	< 20	1,100	< 5	< 1 UJ	110,000	< 1	< 10	< 20	770
	06/05/03	< 100	1.4	< 5	45	< 2	< 1	35,000	35	< 10	< 1	NA	< 100	< 3	110,000	< 10	< 0.2	< 20	1,400	< 5	< 1 UJ	120,000	< 1	< 10	< 20	860

Table A-9-7
Results of Total and Dissolved Metals Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium [2]	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method [1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7040/ SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [3]		**--**	**6**	**50**	**1,000**	**4**	**1.1**	**250,000**	**50**	**--**	**11.8**	**11**	**--**	**3.2**	**--**	**--**	**0.012**	**100**	**--**	**5**	**4.1**	**--**	**2**	**--**	**106**	**--**
LF5SP100 (total)	03/21/06	< 100	< 1	< 5	42	< 2	< 1	13,000	< 10	< 10	3.5	NA	220	< 3	20,000	< 10	< 0.2	< 20	3,000	< 5	< 1	43,000	< 1	< 10	< 20	470
	03/21/06	5,200 J	< 1	< 5	440	< 2	< 1	33,000	10	26	< 1	NA	3,400	180	32,000	1100	0.25	110	3,900	< 5	< 1	43,000	1.3	38	420	NA
	03/22/05	< 100	< 1	< 5	24	< 2	< 1	8,600	< 10	< 10	3.6	NA	400	< 3	9,900	< 10	< 0.2	< 20	2,400	< 5	< 1	25,000	< 1	< 10	< 20	NA
(total)	03/22/05	10,000	< 1	< 5	61	< 2	< 1	9,000	34	< 10	9.5	NA	12,000	17	11,000	62	< 0.2	37	3,000	< 5	< 1	26,000	< 1	25	41	NA
(total)	12/05/03	1,900	< 60	< 5	69	< 2	**< 5**	14,000	< 10	< 20	< 10	NA	2,200	14	27,000	42	< 0.2	25	4,700	< 5	< 5	70,000	< 5	< 10	35	470
DUP1205031A (total)	12/05/03	1,500	< 60	< 5	68	< 2	**< 5**	14,000	< 10	< 20	< 10	NA	1,700	15	26,000	40	< 0.2	24	4,800	< 5	< 5	70,000	< 5	< 10	37	720
LF5SP100CL (total)	12/05/03	9,600	< 5	< 5	88	< 1	< 1	17,000	39	< 7	11	NA	15,000	18	27,000	73	< 0.2	47	4,900	< 5	< 1	73,000	< 2	31	44	470
1349MW01 [4]	03/16/06	< 100	< 1	< 5	32	< 2	< 1	110,000	< 10	< 10	< 1	NA	< 100	< 3	230,000 J	< 10	< 0.2	< 20	1,900 J-	< 5	< 1	250,000	< 1	< 10	< 20	2,040 J
	03/21/05	< 100	< 1	< 5	34	< 2	< 1	92,000	< 10	< 10	1.1	NA	220	< 3	170,000	< 10	< 0.2	< 20	1,700	< 5	< 1	190,000	< 1	< 10	< 20	1,500
	03/15/04	< 100	< 1	< 5	34 J-	< 2	< 1	110,000	< 10	< 10	3	NA	270	< 3	210,000	< 10	< 0.2	< 20	1,800	< 5	< 1	250,000	< 1	< 10	< 20	1,650
	12/02/03	< 100	< 1	< 5	38	< 2	< 1	86,000	< 10	< 10	1.3	NA	370	< 3	180,000	< 10	< 0.2	< 20	1,900	< 5	< 1 UJ	200,000	< 1	< 10	< 20	1,240
	08/21/03	< 100	< 1	< 5	39	< 2	< 1	94,000	< 10	< 10	< 1	NA	610	< 3	200,000	< 10	< 0.2	< 20	1,700	5.3	< 1 UJ	200,000	< 1	< 10	< 20 UJ	1,660
	06/10/03	< 100	< 1	< 5	38	< 2	< 1	100,000	< 10	< 10	< 1	NA	150	< 3	180,000	12	< 0.2	< 20	1,900	< 5	< 1	170,000	< 1	< 10	< 20	1,650
	12/09/02	< 100	< 1	< 1	44	< 1	< 1	100,000	8.2	< 1	< 1	< 10	330	< 3	210,000	10 J	0.22	6.9	2,100	< 5	< 1 UJ	200,000	< 1	< 10	< 10	1,490
DUP1209021A	12/09/02	< 100	< 1	< 1	46	< 1	< 1	100,000	10	< 1	< 1	< 10	320	< 3	210,000	12 J	< 0.2	11	2,100	< 5	< 1 UJ	190,000	< 1	< 10	< 10	1,580
1349MW01CL	12/09/02	< 300	< 5	14	46	< 1	< 1	110,000 J+	7.3	< 7	6.5	< 5	< 150	< 3	240,000	11	< 0.2	12	2,600	6.1	< 1	210,000	< 2	< 10	< 10	1,600
	08/28/02	< 100	< 1	< 1	280	< 1	< 1	110,000	1.2 J	< 1	1.3	< 10	180	< 3	230,000	< 10	< 0.2	3.8	2,000	< 5	< 1 UJ	230,000	< 1	< 10	30	1,750
	05/30/02	< 100	< 1	< 1	42	< 1	< 1	100,000	3.2	< 1	1.2	< 10 UJ	200	< 3	210,000	< 10	< 0.2	4.3	2,000	< 5	< 1 UJ	210,000	< 1	< 10	< 10	1,670
	03/06/02	< 100	1.1	1.1	450	< 1	< 1	130,000	3.8	< 1	1.4	< 10	480	< 3	270,000	< 10	< 0.2	5.6	2,200	< 5	1.8 J-	290,000	< 1	< 10	90	1,660
	11/28/01	< 100	< 1	1.9	590	< 1	< 1	120,000	27 J	< 1	3.4	< 10	< 100	< 3	250,000	15	< 0.2	8.8	2,500	11	< 1	240,000	< 1	< 10	200	1,610
	08/30/01	< 100	1.6	< 1	470 J+	< 1	< 1	98,000	16	< 1	2.7	< 10 UJ	300	< 3	260,000	15	< 0.2	14	2,300	< 5	< 1 UJ	210,000	< 1	< 10	98	NA
DUP0830013A	08/30/01	< 100	< 1	< 1	110 J+	< 1	< 1	98,000	15	< 1	2	< 10 UJ	300	< 3	260,000	15	< 0.2	17	1,800	< 5	< 1 UJ	210,000	< 1	< 10	13	NA
1349MW01CL	08/30/01	< 200	0.53 J	< 2	110	< 1	< 1	100,000	7.2	0.97 J	1.5 J	< 10	< 200	< 5	220,000	16	< 0.2	6.7	2,600	7.4	< 1	260,000	< 5	< 5	19	2,100
	05/10/01	< 100	< 1	1.3	620	< 1	< 1	110,000	10 J	< 1	4.6 J	< 10 UJ	840	< 3	230,000	11	< 0.2	5.4 J	2,700	5.9	< 1 UJ	220,000	< 1	< 10	180 J	1,690 J
	05/19/99	< 100	NA	NA	NA	NA	NA	107,000	NA	NA	< 10	NA	< 100	NA	240,000	< 10	NA	NA	< 5,000	NA	NA	203,000	NA	NA	NA	1,900
	02/19/99	< 100	NA	NA	NA	NA	NA	101,000	NA	NA	< 10	NA	< 100	NA	234,000	< 10	NA	NA	< 5,000	NA	NA	193,000	NA	NA	NA	1,800
	11/18/98	< 100	NA	NA	NA	NA	NA	96,900	NA	NA	< 10	NA	< 100	NA	237,000	< 10	NA	NA	< 5,000	NA	NA	190,000	NA	NA	NA	1,640
	08/18/98	< 100	NA	NA	NA	NA	NA	102,000	NA	NA	11.8	NA	< 100	NA	248,000	< 10	NA	NA	< 5,000	NA	NA	197,000	NA	NA	NA	1,900
	04/16/98	< 100	NA	NA	NA	NA	NA	100,000	NA	NA	28.4	< 10 (U16)	< 100	NA	222,000	< 10	NA	NA	< 5,000	NA	NA	200,000	NA	NA	NA	1,980
	01/22/98	< 100	NA	NA	NA	NA	NA	94,900	NA	NA	< 10	NA	< 100	NA	238,000	13.4	NA	NA	< 5,000	NA	NA	182,000	NA	NA	NA	1,830
	10/30/97	< 100	NA	NA	NA	NA	NA	97,000	NA	NA	< 20	NA	< 100	NA	237,000	24.2	NA	NA	< 5,000	NA	NA	178,000	NA	NA	NA	1,950
	07/31/97	< 100	NA	NA	NA	NA	NA	93,200	NA	NA	< 20	NA	< 100	NA	221,000	14.2	NA	NA	< 5,000	NA	NA	190,000	NA	NA	NA	1,650
	05/01/97	< 100	NA	NA	NA	NA	NA	110,000	NA	NA	< 10	NA	< 100	NA	263,000	29	NA	NA	3,040	NA	NA	191,000	NA	NA	NA	1,830
	02/10/97	< 100	NA	NA	NA	NA	NA	118,000	NA	NA	5.1	NA	< 100	NA	260,000	34	NA	NA	< 5,000	NA	NA	234,000	NA	NA	NA	2,090
1349MW02 [4]	03/10/06	< 100	< 1	< 5	230 J	< 2	1.1	80,000	75	< 10	1.2	NA	230 J	< 3	260,000	13	< 0.2	< 20	810 J	< 5	< 1	210,000	< 1	< 10	< 20	2,060
	08/31/05	< 100	< 1	< 5	210	< 2	< 1	75,000	60	< 10	1.1	NA	140	< 3	280,000	< 10	< 0.2	< 20	< 500	< 5	< 1	210,000	< 1	< 10	< 20	2,170
	05/25/05	< 100 UJ	< 1	< 5	250	< 2	< 1	95,000	56	< 10	< 1	NA	< 100	< 3	270,000	< 10	< 0.2	< 20	660	< 5	< 1	220,000	< 1	< 10	< 20	2,030
	03/21/05	< 100	< 1	< 5	310	< 2	< 1	130,000	67	< 10	3	NA	350	< 3	210,000	< 10	< 0.2	< 20	660	< 5	< 1	190,000	< 1	< 10	< 20	1,780
	12/16/04	< 100	< 1	< 5	160	< 2	< 1	52,000	76	< 10	< 1	NA	190	< 3	250,000	< 10	< 0.2	< 20	< 500	< 5	< 1	200,000	< 1	< 10	< 20	1,690
	08/12/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,620
	05/26/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,620
	03/15/04	< 100	< 1	< 5	230 J-	< 2	< 1	85,000	83	< 10	1.8	NA	190	< 3	270,000	< 10	< 0.2	< 20	< 500	< 5	< 1	230,000	< 1	< 10	< 20	1,600

Table A-9-7
Results of Total and Dissolved Metals Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium [2]	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method [1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7040/ SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [3]		**--**	**6**	**50**	**1,000**	**4**	**1.1**	**250,000**	**50**	**--**	**11.8**	**11**	**--**	**3.2**	**--**	**--**	**0.012**	**100**	**--**	**5**	**4.1**	**--**	**2**	**--**	**106**	**--**
1349MW02 [4]	12/02/03	< 100	1.3	< 5	170	< 2	< 1	57,000	75	< 10	1.1	NA	220	< 3	270,000	< 10	< 0.2	< 20	< 500	< 5	< 1 UJ	200,000	< 1	< 10	< 20	1,160
	08/13/03	< 100	1.7	< 5	180	< 2	< 1	61,000	87	< 10	< 1	NA	300	< 3	230,000	< 10	< 0.2	< 20	< 500	< 5	< 1 UJ	190,000	< 1	< 10	< 20	1,540
	06/05/03	< 100	1.3	< 5	180	< 2	< 1	59,000	80	< 10	1.2	NA	150	< 3	250,000	< 10	0.26	< 20	530	< 5	< 1	210,000	< 1	< 10	< 20	1,440
DUP0605032A	06/05/03	< 100	1.3	< 5	180	< 2	< 1	65,000	83	< 10	< 1	NA	100	< 3	240,000	< 10	< 0.2	< 20	< 500	< 5	< 1	190,000	< 1	< 10	< 20	1,500
	12/04/02	< 100	< 1	< 1	160	< 1	< 1	53,000	92	< 1	< 1	80	160	< 3	220,000	< 10	< 0.2	6.3	< 500	< 5	< 1 UJ	180,000	< 1	< 10	< 10	1,600
DUP1204023A	12/04/02	< 100	< 1	< 1	160	< 1	< 1	52,000	94	< 1	1.1	80	160	< 3	220,000	< 10	< 0.2	6.6	< 500	< 5	< 1 UJ	180,000	< 1	< 10	< 10	1,400
	08/28/02	< 100	1.2	< 1	510	< 1	< 1	55,000	82 J	< 1	1.4	90	< 100	< 3	240,000	< 10	< 0.2	6.2	660	< 5	< 1 UJ	210,000	< 1	< 10	68	1,500
	05/30/02	< 100	< 1	< 1	460	< 1	< 1	61,000	79	< 1	1.4	70 J-	< 100	< 3	230,000	< 10	< 0.2	5.1	690	< 5	< 1 UJ	200,000	< 1	< 10	87	1,610
	03/06/02	< 100	< 1	< 1	340	< 1	< 1	90,000	95	< 1	< 1	90	310	< 3	270,000	< 10	< 0.2	7	580	< 5	< 1 UJ	240,000	< 1	< 10	< 10	1,610
DUP0306022A	03/06/02	< 100	< 1	< 1	390	< 1	< 1	96,000	97	< 1	< 1	90 J-	310	< 3	290,000	< 10	< 0.2	7.2	600	< 5	< 1 UJ	260,000	< 1	< 10	16	1,580
	11/28/01	< 100	< 1	1.2	760	< 1	< 1	51,000	130 J	< 1	2.7	100	< 100	< 3	260,000	< 10	< 0.2	8.2	1,100	5.1	< 1	220,000	< 1	< 10	190	1,510
DUP1128011A	11/28/01	< 100	< 1	1	350	< 1	< 1	52,000	130 J	< 1	2.1	100 J	< 100	< 3	260,000	< 10	< 0.2	8.4	900	< 5	< 1	220,000	< 1	< 10	30	1,470
	08/30/01	< 100	< 1	< 1	150 J+	< 1	< 1	45,000	110	< 1	1.8	< 10	150	< 3	250,000	< 10	< 0.2	6.9	< 500	< 5	< 1 UJ	210,000	< 1	< 10	< 10	1,550
DUP0830012A	08/30/01	< 100	< 1	< 1	160 J+	< 1	< 1	47,000	100	< 1	1.9	< 10	150	< 3	260,000	< 10	< 0.2	6.6	<500	< 5	< 1 UJ	210,000	< 1	< 10	15	1,470
1349MW02CL	08/30/01	< 200	1.2 J	< 2	800	< 1	< 1	47,000	110	0.92 J	1.7 J	90	< 200	< 5	230,000	< 5	< 0.2	8.3	<1,000	7.9	< 1	280,000	< 1	< 5	170	1,900
	05/10/01	< 100	< 1	1.1	560	< 1	< 1	49,000	98 J	< 1	4.2 J	70 J	390	<3	250,000	< 10	< 0.2	9.3 J	780	< 5	< 1 UJ	210,000	< 1	< 10	160 J	1,620 J
	05/19/99	< 100	NA	NA	NA	NA	NA	57,300	NA	NA	< 10	NA	< 100	NA	274,000	< 10	NA	NA	< 5,000	NA	NA	204,000	NA	NA	NA	1,900
	02/19/99	< 100	NA	NA	NA	NA	NA	63,500	NA	NA	< 10	NA	< 100	NA	284,000	< 10	NA	NA	< 5,000	NA	NA	215,000	NA	NA	NA	1,840
	11/18/98	< 100	NA	NA	NA	NA	NA	59,300	NA	NA	18.7	NA	< 100	NA	283,000	< 10	NA	NA	< 5,000	NA	NA	213,000	NA	NA	NA	1,770
	08/18/98	< 100	NA	NA	NA	NA	NA	57,800	NA	NA	< 10	NA	< 100	NA	267,000	< 10	NA	NA	< 5,000	NA	NA	211,000	NA	NA	NA	1,900
	04/16/98	< 100	NA	NA	NA	NA	NA	53,500	NA	NA	< 10	43 (J16)	< 100	NA	233,000	< 10	NA	NA	< 5,000	NA	NA	195,000	NA	NA	NA	1,760
	01/22/98	< 100	NA	NA	NA	NA	NA	50,800	NA	NA	< 10	NA	< 100	NA	244,000	< 10	NA	NA	< 5,000	NA	NA	196,000	NA	NA	NA	1,750
	10/30/97	< 100	NA	NA	NA	NA	NA	52,300	NA	NA	< 20	NA	< 100	NA	244,000	< 10	NA	NA	< 5,000	NA	NA	199,000	NA	NA	NA	1,750
	07/31/97	< 100	NA	NA	NA	NA	NA	51,300	NA	NA	< 20	NA	< 100	NA	249,000	< 10	NA	NA	< 5,000	NA	NA	205,000	NA	NA	NA	1,810
	05/01/97	< 100	NA	NA	NA	NA	NA	53,900	NA	NA	< 10	NA	< 100	NA	266,000	< 10	NA	NA	< 1,000	NA	NA	188,000	NA	NA	NA	1,700
	02/10/97	< 100	NA	NA	NA	NA	NA	39,600	NA	NA	2.5	NA	< 100	NA	176,000	19.7	NA	NA	< 5,000	NA	NA	145,000	NA	NA	NA	1,490
1349MW03R	03/16/06	< 100	< 1	< 5	81	< 2	< 1	52,000	**120**	< 10	< 1	NA	< 100	< 3	220,000 J	< 10	< 0.2	< 20	1,300 J-	< 5	< 1	280,000	< 1	< 10	< 20	2,060
	11/30/05	< 100	< 1	< 5	23	< 2	< 1	23,000	**100 J**	< 10	< 1	NA	100	< 3	110,000	< 10	< 0.2	< 20	660	< 5	< 1	79,000	< 1	< 10	< 20	750
	08/31/05	< 100	< 1	< 5	19	< 2	< 1	29,000	**100**	< 10	< 1	NA	< 100	< 3	110,000	< 10	< 0.2	< 20	870	< 5	< 1	85,000	< 1	< 10	< 20	710
	05/25/05	< 100 UJ	< 1	< 5	41 J	< 2	< 1	46,000	**130**	< 10	< 1	NA	< 100	< 3	190,000	< 10	< 0.2	< 20	1,700	< 5	< 1	190,000	< 1	< 10	< 20	1,460
	03/21/05	< 100	< 1	< 5	90	< 2	< 1	70,000	**190**	< 10	1.3	NA	180	< 3	230,000	< 10	< 0.2	< 20	4,100	< 5	< 1	300,000	< 1	< 10	< 20	1,980
	12/16/04	< 100	< 1	< 5	< 10	< 2	< 1	19,000	**68**	< 10	< 1	NA	< 100	< 3	78,000	< 10	< 0.2	< 20	2,200	< 5	< 1	57,000	< 1	< 10	< 20	530
	08/10/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	540
	05/26/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	580
	03/09/04	< 100	< 1	< 5	< 10	< 2	< 1	23,000	**94**	< 10	< 1	NA	< 100	< 3	84,000	< 10	< 0.2	< 20	3,000 J	< 5	< 1 UJ	67,000	< 1	< 10	< 20	550
	12/02/03	< 100	1.9	5.4	< 10	< 2	< 1	18,000	42	< 10	< 1	NA	< 100	< 3	68,000	< 10	< 0.2	< 20	4,400	< 5	< 1 UJ	56,000	< 1	< 10	< 20	360
	08/13/03	< 100	3.3	7.4	< 10	< 2	< 1	24,000	**59**	< 10	< 1	NA	120	< 3	70,000	< 10	< 0.2	< 20	6,100	< 5	< 1 UJ	63,000	< 1	< 10	< 20	510
	06/09/03	< 100	1.4	6.2	< 10	< 2	< 1	30,000	44	< 10	< 1	NA	< 100	< 3	60,000	< 10	< 0.2	< 20	9,700	< 5	< 1 UJ	100,000	< 1	< 10	< 20	690
1349MW100 [4]	05/24/06	< 100	< 1	13	380	< 2	< 1	150,000	< 10	< 10	< 1	NA	33,000	< 3	200,000	14,000	< 0.2	< 20	3,800	< 5	< 1	460,000	< 1	< 10	< 20	2,550
DUP0524063A	05/24/06	< 100	< 1	12	380	< 2	< 1	140,000	< 10	< 10	< 1	NA	34,000	< 3	200,000	14,000	< 0.2	< 20	3,500	< 5	< 1	450,000	< 1	< 10	< 20	2,460
1349MW100CL	05/24/06	< 100 U	< 2 U	15	425	< 10 U	< 1 U	165,000	< 10 U	5.1	4.3	NA	36,500 J+	< 1 U	226,000	14,800	< 0.2 U	15	< 5,000 U	< 2 U	< 1 U	502,000	< 1 U	< 10 U	< 20 U	2,110
	03/16/06	< 100	< 1	9.4	450	< 2	< 1	130,000	< 10	< 10	< 1	NA	27,000	< 3	180,000 J	14,000	< 0.2	< 20	2,700 J-	**10**	< 1	400,000	< 1	< 10	< 20	510
	11/30/05	< 100	< 1	9.6	840	< 2	< 1	200,000	< 10 UJ	< 10	1	NA	52,000	< 3	290,000	20,000	< 0.2	< 20	2,400	< 5	< 1	400,000	< 1	< 10	21	5,570
	08/31/05	< 100	< 1	< 5	1,200	< 2	< 1	260,000	< 10	< 10	1.1	NA	63,000	< 3	390,000	26,000	< 0.2	< 20	2,700 J	< 5	< 1	470,000	< 1	< 10	31	3,890
	05/25/05	< 100 UJ	< 1	11	490	< 2	< 1	170,000	< 10	< 10	< 1	NA	33,000	< 3	210,000	16,000	< 0.2	< 20	3,100	< 5	< 1	440,000	< 1	< 10	< 20	2,260
	03/23/05	< 100	< 1	8	510	< 2	< 1	140,000	< 10	< 10	1.1	NA	31,000	< 3	200,000	13,000	< 0.2	< 20	2,700	< 5	< 1	390,000	< 1	< 10	< 20	2,350

Table A-9-7
Results of Total and Dissolved Metals Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium [2]	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method [1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7040/ SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [3]		**--**	**6**	**50**	**1,000**	**4**	**1.1**	**250,000**	**50**	**--**	**11.8**	**11**	**--**	**3.2**	**--**	**--**	**0.012**	**100**	**--**	**5**	**4.1**	**--**	**2**	**--**	**106**	**--**
1349MW100 [4]	12/16/04	< 100	< 1	20	530	< 2	< 1	190,000	< 10	< 10	1.8	NA	39,000	< 3	280,000	18,000	< 0.2	< 20	3,300	< 5	< 1	390,000	< 1	< 10	< 20	2,870
	08/10/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,450
	05/26/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,490
	03/16/04	< 100	1.8	11	600 J-	< 2	< 1	150,000	< 10	< 10	1.3	NA	30,000	< 3	210,000	16,000	< 0.2	< 20	2,800	< 5	< 1	440,000	< 1	< 10	< 20	2,050
	12/02/03	< 100	2.6	23	530	< 2	< 1	170,000	16	< 10	1.3	NA	36,000	< 3	290,000	15,000	< 0.2	< 20	3,900	< 5	< 1 UJ	380,000	< 1	< 10	< 20	1,820
	08/12/03	< 100	< 1	15 J+	700	< 2	< 1	160,000	15 J	< 10	< 1	NA	21,000	< 3	250,000	160	< 0.2	< 20	3,400	< 5	< 1 UJ	350,000	< 1	< 10	< 20 UJ	2,450
	06/09/03	< 100	1.9	14	520	< 2	< 1	130,000	10	< 10	< 1	NA	25,000	< 3	190,000	14,000	< 0.2	< 20	2,900	< 5	< 1 UJ	370,000	< 1	< 10	< 20	2,200
	03/12/03	< 100	< 1	7.9	680	< 1	< 1	140,000	7.2	8.9	< 1	< 10	13,000	< 3	190,000	14,000	< 0.2	15	2,600	< 5	< 1 UJ	330,000 J-	< 1	< 10	< 10	2,100
	12/10/02	< 100	< 1	5.9	300	< 1	< 1	190,000	12	33	1.3	< 10	4,600	< 3	290,000	6,600 J	< 0.2	28	7,600	< 5	< 1 UJ	300,000	< 1	< 10	< 10	2,480
1349MW101	03/16/06	< 100	< 1	< 5	< 10	< 2	< 1	15,000	41	< 10	< 1	NA	< 100	< 3	58,000 J	< 10	< 0.2	< 20	1,700 J-	< 5	< 1	94,000	< 1	< 10	< 20	750
	08/31/05	< 100	< 1	< 5	< 10	< 2	< 1	16,000	25	< 10	< 1	NA	< 100	< 3	62,000	< 10	< 0.2	< 20	2,200	< 5	< 1	100,000	< 1	< 10	< 20	660
	05/25/05	< 100 UJ	< 1	5.5	< 10 UJ	< 2	< 1	19,000	25	< 10	< 1	NA	< 100	< 3	73,000	< 10	< 0.2	< 20	3,100	< 5	< 1	130,000	< 1	< 10	< 20	650
DUP0525052A	05/25/05	< 100 UJ	< 1	5.5	< 10 UJ	< 2	< 1	19,000	25	< 10	< 1	NA	< 100	< 3	72,000	< 10	< 0.2	< 20	3,000	< 5	< 1	120,000	< 1	< 10	< 20	560
	03/21/05	< 100	< 1	5.7	< 10	< 2	< 1	19,000	33	< 10	1	NA	< 100	< 3	57,000	< 10	< 0.2	< 20	3,000	< 5	< 1	97,000	< 1	< 10	< 20	430
	12/15/04	< 100	< 1	5.1	< 10	< 2	< 1	19,000 J	24	< 10	< 1	NA	< 100	< 3	45,000	< 10	< 0.2	< 20	3,400	< 5	< 1	66,000	< 1 UJ	< 10	< 20	550
	03/09/04	< 100	1.3	5.2	< 10	< 2	< 1	23,000	45	< 10	< 1	NA	< 100	< 3	61,000	< 10	< 0.2	< 20	4,300 J	< 5	< 1 UJ	99,000	< 1	< 10	< 20	590
	12/02/03	< 100	1.8	< 5	< 10	< 2	< 1	20,000	15	< 10	< 1	NA	< 100	< 3	54,000	24	< 0.2	< 20	6,300	< 5	< 1 UJ	120,000	< 1	< 10	< 20	390
	08/19/03	< 100	< 1	5.9	< 10	< 2	< 1	29,000	15	< 10	< 1	NA	120	< 3	57,000	19	< 0.2	< 20	7,500	< 5	< 1 UJ	150,000	< 1	< 10	< 20 UJ	660
	06/09/03	< 100	< 1	6.1	< 10	< 2	< 1	36,000	34	< 10	< 1	NA	< 100	< 3	56,000	< 10	< 0.2	< 20	9,800	< 5	< 1 UJ	160,000	< 1	< 10	< 20	890
1349MW102	03/07/06	< 100	< 1	< 5	49	< 2	< 1	42,000 J	< 10	< 10	< 1	NA	190	< 3	98,000	140	NA	< 20	2700	< 5	< 1	190,000	< 1	< 10	< 20	1,070
DUP0307063C	03/07/06	260	< 1	< 5	52	< 2	< 1	41,000 J	< 10	< 10	1.8	NA	530	< 3	96,000	150	NA	< 20	2800	< 5	< 1	180,000	< 1	< 10	< 20	1,000
1349MW102CL	03/07/06	< 100 U	< 2 U	< 2 U	57	< 1 U	< 1 U	52,000	< 10 U	< 1 U	2.7	NA	< 100 U	< 1 U	110,000	160	< 0.2 U	5.4	< 5000 U	2.3	< 1 U	230,000	< 1 U	< 10 U	< 20 U	1,070 J+
	08/31/05	< 100	< 1	< 5	31	< 2	< 1	38,000	< 10	< 10	< 1	NA	< 100	< 3	57,000	< 10	< 0.2	< 20	2,800	< 5	< 1	150,000	< 1	< 10	< 20	850
DUP0831052A	08/31/05	< 100	< 1	< 5	30	< 2	< 1	39,000	< 10	< 10	< 1	NA	< 100	< 3	56,000	10	< 0.2	< 20	2,800	< 5	< 1	150,000	< 1	< 10	< 20	820
	05/25/05	< 100 UJ	< 1	< 5	25 J	< 2	< 1	43,000	< 10	< 10	< 1	NA	< 100	< 3	59,000	< 10	< 0.2	< 20	3,600	< 5	< 1	190,000	< 1	< 10	28	680
	03/21/05	< 100	< 1	< 5	55	< 2	< 1	62,000	< 10	< 10	< 1	NA	170	< 3	93,000	62	< 0.2	< 20	4,400	< 5	< 1	140,000	< 1	< 10	< 20	970
DUP0321053A	03/21/05	< 100	< 1	< 5	49	< 2	< 1	62,000	< 10	< 10	4.8	NA	170	< 3	83,000	48	< 0.2	< 20	4,300	< 5	< 1	150,000	< 1	< 10	< 20	1,040
	12/16/04	< 100	< 1	< 5	74	< 2	< 1	74,000	< 10	< 10	< 1	NA	210	< 3	160,000	410	< 0.2	< 20	3,700	< 5	< 1	180,000	< 1	< 10	< 20	1,280
	08/10/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,160
	08/10/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,260
	05/27/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,270
DUP0527041A	05/27/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,220
1349MW102CL	05/26/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,100
	03/10/04	< 100	< 1	< 5	83	< 2	< 1	73,000	< 10	< 10	< 1	NA	290	< 3	160,000	430	< 0.2	< 20	3,400	< 5	< 1 UJ	160,000	< 1	< 10	< 20	1,150
DUP0310041A	03/10/04	< 100	< 1	< 5	81	< 2	< 1	77,000	< 10	< 10	< 1	NA	260	< 3	160,000	400	< 0.2	< 20	3,300	< 5	< 1 UJ	170,000	< 1	< 10	< 20	1,280
1349MW102CL	03/10/04	< 100	< 5	5.6	77	< 1	< 1	76,000	< 10	< 7	< 10	NA	640	< 3	170,000	420	< 0.2	< 10	3,600	< 5	< 1	170,000	< 2	< 10	< 20	1,100 QB01
	12/10/03	< 100	< 1	< 5	69	< 2	< 1	77,000	< 10	< 10	< 1	NA	420	< 3	160,000	550	< 0.2	< 20	3,800	< 5 R	< 1	160,000	< 1	< 10	< 20 UJ	1,260
DUP1210031A	12/10/03	< 100	1.8	< 5	72	< 2	< 1	80,000	< 10	< 10	1	NA	460	< 3	170,000	600	< 0.2	< 20	4,000	< 5 R	< 1	170,000	< 1	< 10	< 20 UJ	1,090
	08/12/03	< 100	2.7	< 5 UJ	34	< 2	< 1	100,000	< 10 UJ	< 10	< 1	NA	390	< 3	180,000	550	< 0.2	< 20	6,400	< 5	< 1 UJ	190,000	< 1	< 10	< 20 UJ	1,430
	06/09/03	< 100	< 1	< 5	31	< 2	< 1	100,000	< 10	< 10	< 1	NA	210	< 3	190,000	440	< 0.2	< 20	9,800	< 5	< 1 UJ	230,000	< 1	< 10	< 20	1,620
DUP0609032A	06/09/03	< 100	2.9	< 5	32	< 2	< 1	98,000	< 10	< 10	< 1	NA	260	< 3	200,000	450	< 0.2	< 20	9,600	< 5	< 1 UJ	220,000	< 1	< 10	< 20	1,630
1349MW102CL	06/09/03	< 100	< 5	7.3	31	< 1	< 1	110,000	< 5	1.4	< 5	NA	530	< 3	180,000	340	< 0.2	7.4	11,000	< 5	< 1	240,000	< 2	< 10	23	1,900 J-

Table A-9-7
Results of Total and Dissolved Metals Analyses
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Hexavalent Chromium [2]	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method [1]	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW7196/ SW7196A	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7040/ SW7470/ SW7470A	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [3]		**--**	**6**	**50**	**1,000**	**4**	**1.1**	**250,000**	**50**	**--**	**11.8**	**11**	**--**	**3.2**	**--**	**--**	**0.012**	**100**	**--**	**5**	**4.1**	**--**	**2**	**--**	**106**	**--**

Notes
All metal results represent dissolved metals, unless indicated as "total" in the left-hand column, for total metal results. RAP cleanup levels only apply to dissolved metals concentrations or whatever has been used on other metals tables.
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Results of Army and Trust studies support the hypothesis that dissolved chromium and hexavalent chromium measured in groundwater in upland areas of the Presidio appear to be naturally occurring and derived from serpentinite.
Hexavalent chromium was not retained as a COC (Treadwell and Rollo, 2002e).
3 - Groundwater cleanup levels were taken from the *Remedial Action Plan and Evaluation of Alternatives for Landfill 4 and Fill Site 5, Presidio of San Francisco, California* (Treadwell & Rollo, 2003e).
4 - Monitoring wells 1349MW01, 1349MW02, and 1349MW100 are located upgradient of Fill Site 5, therefore, the Fill Site 5 cleanup levels do not apply to these wells.
Surface water seep sample LF5SP100 is analyzed for total metals rather than dissolved, in accordance with the approved plan.
Groundwater samples collected from monitoring wells 1349MW03R through LF5GW104 were field filtered and analyzed for dissolved metals.
Bold numbers indicate concentrations which exceed cleanup criteria.
-- - Cleanup criteria not established
µg/L - micrograms per liter
mg/L - milligrams per liter
NA - not analyzed
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

A-9-8
Groundwater Elevation Summary
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF5GW100	05/22/06	8.54	229.74	221.20	MW
	03/06/06	6.27	229.74	223.47	MW
	11/28/05	9.03	229.74	220.71	MW
	08/29/05	9.67	229.74	220.07	MW
	05/23/05	9.38	229.74	220.36	MW
	03/14/05	9.10	229.74	220.64	MW
	12/13/05	9.10	229.74	220.64	MW
	08/09/04	9.20	229.74	220.54	MW
	05/24/04	9.05	229.74	220.69	MW
	03/08/04	9.10	229.74	220.64	MW
	12/01/03	9.30	229.74	220.44	MW
	08/11/03	6.71	229.74	223.03	MW
	06/02/03	6.98	229.74	222.76	MW
	03/10/03	9.10	229.74	220.64	MW
	12/02/02	7.17	229.74	222.57	MW
	08/26/02	5.05	229.74	224.69	MW
	05/28/02	6.31	229.74	223.43	MW
	03/04/02	5.25	229.74	224.49	MW
	11/26/01	6.73	229.74	223.01	MW
	08/27/01	11.09	229.74	218.65	MW
	05/08/01	6.32	229.74	223.42	MW
LF5GW101	05/22/06	5.14	234.36	229.22	MW
	03/06/06	4.59	234.36	229.77	MW
	11/28/05	6.78	234.36	227.58	MW
	08/29/05	6.53	234.36	227.83	MW
	05/23/05	6.10	234.36	228.26	MW
	03/14/05	3.84	234.36	230.52	MW
	12/13/04	7.10	234.36	227.26	MW
	08/09/04	7.42	234.36	226.94	MW
	05/24/04	4.95	234.36	229.41	MW
	03/08/04	3.97	234.36	230.39	MW
	12/01/03	5.15	234.36	229.21	MW
	08/11/03	5.95	234.36	228.41	MW
	06/02/03	5.78	234.36	228.58	MW
	03/10/03	6.85	234.36	227.51	MW
	12/02/02	9.19	234.36	225.17	MW
	08/26/02	5.84	234.36	228.52	MW
	05/28/02	8.65	234.36	225.71	MW
	03/04/02	6.77	234.36	227.59	MW
	11/26/01	8.38	234.36	225.98	MW
	08/27/01	6.66	234.36	227.70	MW
	05/08/01	2.00	234.36	232.36	MW

A-9-8
Groundwater Elevation Summary
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF5GW102	05/22/06	23.49	294.76	271.27	MW
	03/06/06	27.57	294.76	267.19	MW
	11/28/05	29.31	294.76	265.45	MW
	08/29/05	28.35	294.76	266.41	MW
	05/23/05	27.92	294.76	266.84	MW
	03/14/05	29.35	294.76	265.41	MW
	12/13/04	31.02	294.76	263.74	MW
	08/09/04	30.33	294.76	264.43	MW
	05/24/04	29.67	294.76	265.09	MW
	03/08/04	30.51	294.76	264.25	MW
	12/01/03	31.23	294.76	263.53	MW
	08/11/03	30.75	294.76	264.01	MW
	06/02/03	29.35	294.76	265.41	MW
LF5GW103	05/22/06	6.23	279.12	272.89	MW
	03/06/06	8.49	279.12	270.63	MW
	11/28/05	12.04	279.12	267.08	MW
	08/29/05	11.25	279.12	267.87	MW
	05/23/05	11.14	279.12	267.98	MW
	03/14/05	10.90	279.12	268.22	MW
	12/13/04	14.64	279.12	264.48	MW
	08/09/04	14.38	279.12	264.74	MW
	05/04/04	13.31	279.12	265.81	MW
	03/08/04	13.47	279.12	265.65	MW
	12/01/03	14.31	279.12	264.81	MW
	08/11/03	13.45	279.12	265.67	MW
	06/02/03	12.33	279.12	266.79	MW
LF5GW104	05/22/06	17.30	286.05	268.75	MW
	03/06/06	16.52	286.05	269.53	MW
	11/28/05	25.04	286.05	261.01	MW
	08/29/05	23.56	286.05	262.49	MW
	05/23/05	20.24	286.05	265.81	MW
	03/14/05	19.48	286.05	266.57	MW
	12/13/04	26.25	286.05	259.80	MW
	08/09/04	26.64	286.05	259.41	MW
	05/24/04	25.45	286.05	260.60	MW
	03/08/04	20.89	286.05	265.16	MW
	12/01/03	27.06	286.05	258.99	MW
	08/11/03	25.35	286.05	260.70	MW
	06/02/03	23.44	286.05	262.61	MW
LF5SP100	05/22/06	Not flowing	NM	NM	Seep
	03/06/06	Flowing	NM	NM	Seep
	11/28/05	Not flowing	NM	NM	Seep
	08/29/05	Not flowing	NM	NM	Seep
	05/23/05	Flowing	NM	NM	Surface
	03/14/05	Not flowing	NM	NM	Surface
	12/13/04	Not flowing	NM	NM	Surface

A-9-8
Groundwater Elevation Summary
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF5SP100	08/09/04	Not flowing	NM	NM	Surface
	05/24/04	Not flowing	NM	NM	Surface
	03/08/04	Not flowing	NM	NM	Surface
	12/01/03	Flowing	NM	NM	Surface
1349MW01	05/22/06	21.54	300.44	278.90	MW
	03/06/06	23.25	300.44	277.19	MW
	11/28/05	26.34	300.44	274.10	MW
	08/29/05	24.94	300.44	275.50	MW
	05/23/05	24.47	300.44	275.97	MW
	03/14/05	25.16	300.44	275.28	MW
	12/13/04	29.14	300.44	271.30	MW
	08/09/04	28.88	300.44	271.56	MW
	05/24/04	27.78	300.44	272.66	MW
	03/08/04	26.84	300.44	273.60	MW
	12/01/03	29.38	300.44	271.06	MW
	08/11/03	27.91	300.44	272.53	MW
	06/02/03	28.33	300.44	272.11	MW
	03/10/03	28.19	300.44	272.25	MW
	12/02/02	29.61	300.44	270.83	MW
	08/26/02	28.69	300.44	271.75	MW
	05/28/02	28.38	300.44	272.06	MW
	03/04/02	27.70	300.44	272.74	MW
	11/26/01	29.76	300.44	270.68	MW
	08/27/01	30.17	300.44	270.27	MW
	05/08/01	29.45	300.44	270.99	MW
1349MW02	05/22/06	23.43	311.22	287.79	MW
	03/06/06	27.87	311.22	283.35	MW
	11/28/05	33.35	311.22	277.87	MW
	08/29/05	32.03	311.22	279.19	MW
	05/23/05	30.25	311.22	280.97	MW
	03/14/05	32.08	311.22	279.14	MW
	12/13/04	36.85	311.22	274.37	MW
	08/09/04	35.38	311.22	275.84	MW
	05/24/04	34.20	311.22	277.02	MW
	03/08/04	34.14	311.22	277.08	MW
	12/01/03	36.66	311.22	274.56	MW
	08/11/03	35.46	311.22	275.76	MW
	06/02/03	35.03	311.22	276.19	MW
	03/10/03	35.46	311.22	275.76	MW
	12/02/02	36.98	311.22	274.24	MW
	08/26/02	35.94	311.22	275.28	MW
	05/28/02	34.95	311.22	276.27	MW
	03/04/02	35.54	311.22	275.68	MW
	11/26/01	37.75	311.22	273.47	MW
	08/27/01	36.79	311.22	274.43	MW
	05/08/01	35.47	311.22	275.75	MW

A-9-8
Groundwater Elevation Summary
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1349MW03	08/26/02	28.63	300.54	271.91	MW
	05/28/02	26.64	300.54	273.90	MW
	03/04/02	25.20	300.54	275.34	MW
	11/26/01	30.67	300.54	269.87	MW
	08/27/01	29.65	300.54	270.89	MW
	05/08/01	26.56	300.54	273.98	MW
1349MW03R	05/22/06	20.40	304.13	283.73	MW
	03/06/06	22.56	304.13	281.57	MW
	11/28/05	29.81	304.13	274.32	MW
	08/29/05	28.52	304.13	275.61	MW
	05/23/05	25.29	304.13	278.84	MW
	03/14/05	23.29	304.13	280.84	MW
	12/13/04	32.69	304.13	271.44	MW
	08/09/04	30.88	304.13	273.25	MW
	05/24/04	29.40	304.13	274.73	MW
	03/08/04	28.43	304.13	275.70	MW
	12/01/03	33.33	304.13	270.80	MW
	08/11/03	31.69	304.13	272.44	MW
	06/02/03	30.48	304.13	273.65	MW
1349MW100	05/22/06	22.79	309.60	286.81	MW
	03/06/06	25.73	309.60	283.87	MW
	11/28/05	31.42	309.60	278.18	MW
	08/29/05	30.12	309.60	279.48	MW
	05/23/05	28.03	309.60	281.57	MW
	03/14/05	29.70	309.60	279.90	MW
	12/13/04	34.85	309.60	274.75	MW
	08/09/04	33.11	309.60	276.49	MW
	05/24/04	32.05	309.60	277.55	MW
	03/08/04	31.63	309.60	277.97	MW
	12/01/03	34.42	309.60	275.18	MW
	08/11/03	32.98	309.60	276.62	MW
	06/02/03	32.75	309.60	276.85	MW
	03/10/03	33.30	309.60	276.30	MW
	12/02/02	34.67	309.60	274.93	MW
1349MW101	05/22/06	19.51	311.63	292.12	MW
	03/06/06	24.59	311.63	287.04	MW
	11/28/05	31.66	311.63	279.97	MW
	08/29/05	30.78	311.63	280.85	MW
	05/23/05	28.65	311.63	282.98	MW
	03/14/05	23.87	311.63	287.76	MW
	12/13/04	33.44	311.63	278.19	MW
	08/09/04	32.10	311.63	279.53	MW
	05/24/04	32.23	311.63	279.40	MW
	03/08/04	32.90	311.63	278.73	MW
	12/01/03	35.25	311.63	276.38	MW
	08/11/03	34.14	311.63	277.49	MW
	06/02/03	33.59	311.63	278.04	MW

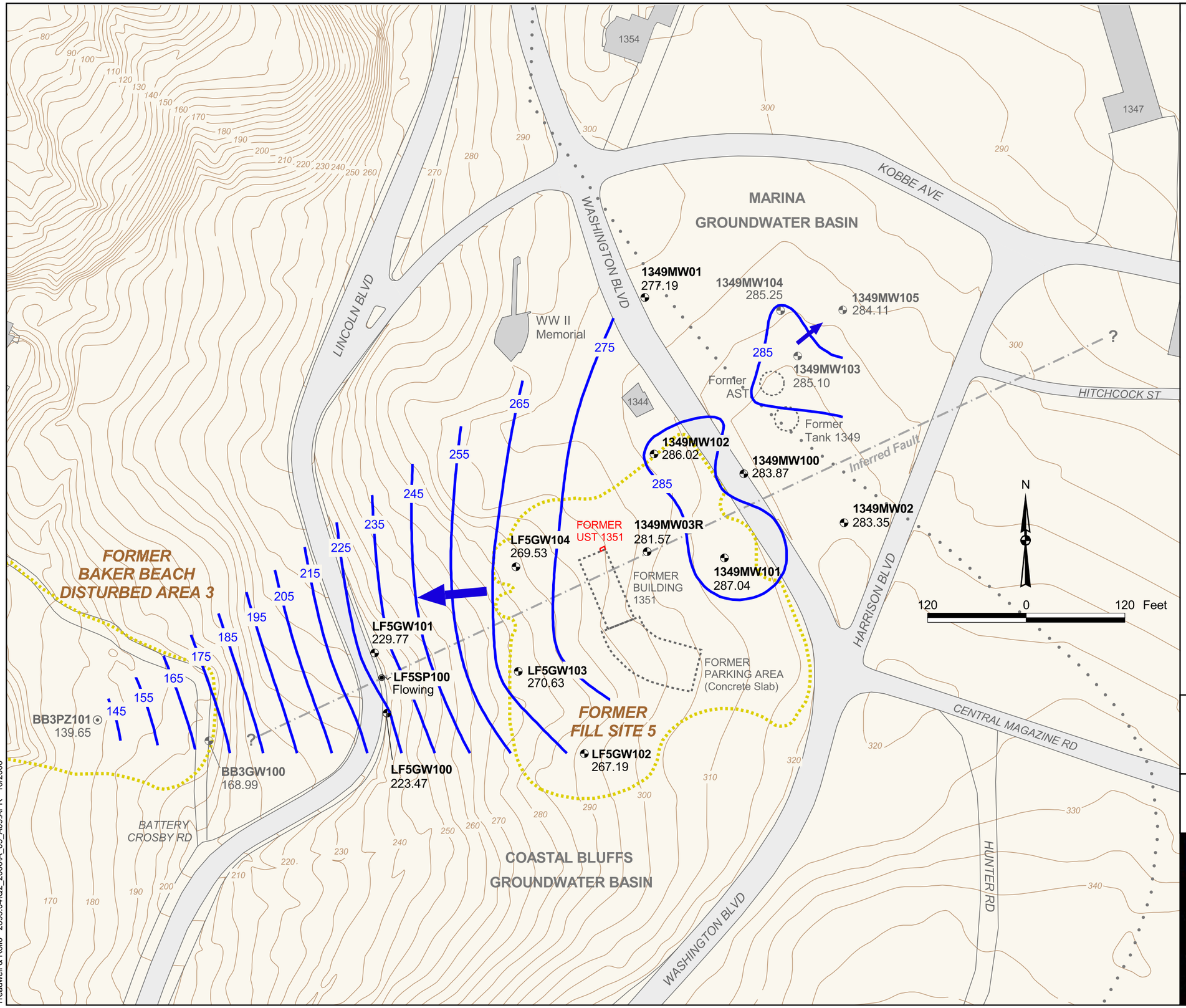
A-9-8
Groundwater Elevation Summary
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1349MW102	05/22/06	15.12	305.68	290.56	MW
	03/06/06	19.66	305.68	286.02	MW
	11/28/05	25.02	305.68	280.66	MW
	08/29/05	23.67	305.68	282.01	MW
	05/23/05	23.33	305.68	282.35	MW
	03/14/05	23.95	305.68	281.73	MW
	12/13/04	28.35	305.68	277.33	MW
	08/09/04	26.89	305.68	278.79	MW
	05/24/04	25.68	305.68	280.00	MW
	03/08/04	25.62	305.68	280.06	MW
	12/01/03	28.17	305.68	277.51	MW
	08/11/03	26.96	305.68	278.72	MW
	06/02/03	26.51	305.68	279.17	MW
1349MW103	05/22/06	30.57	318.07	287.50	MW
	03/06/06	32.97	318.07	285.10	MW
	11/28/05	37.30	318.07	280.77	MW
	08/29/05	36.04	318.07	282.03	MW
	05/23/05	34.70	318.07	283.37	MW
	03/14/05	37.18	318.07	280.89	MW
	12/13/04	40.93	318.07	277.14	MW
	08/09/04	39.49	318.07	278.58	MW
	05/24/04	38.40	318.07	279.67	MW
	03/08/04	38.75	318.07	279.32	MW
	12/01/03	40.69	318.07	277.38	MW
1349MW104	05/22/06	24.50	314.58	290.08	MW
	03/06/06	29.33	314.58	285.25	MW
	11/28/05	34.07	314.58	280.51	MW
	08/29/05	32.83	314.58	281.75	MW
	05/23/05	31.42	314.58	283.16	MW
	03/14/05	33.73	314.58	280.85	MW
	12/13/04	37.65	314.58	276.93	MW
	08/09/04	36.23	314.58	278.35	MW
	05/24/04	35.18	314.58	279.40	MW
	03/08/04	35.76	314.58	278.82	MW
	12/01/03	37.43	314.58	277.15	MW
1349MW105	05/22/06	24.60	312.05	287.45	MW
	03/06/06	27.94	312.05	284.11	MW
	11/28/05	31.15	312.05	280.90	MW
	08/29/05	30.78	312.05	281.27	MW
	05/23/05	31.54	312.05	280.51	MW
	03/14/05	33.25	312.05	278.80	MW

A-9-8
Groundwater Elevation Summary
Building 1349/Fill Site 5
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1349MW105	12/13/04	34.71	312.05	277.34	MW
	08/09/04	33.33	312.05	278.72	MW
	05/24/04	33.20	312.05	278.85	MW
	03/08/04	33.71	312.05	278.34	MW
	12/01/03	34.38	312.05	277.67	MW

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
MW - monitoring well
feet PLLW - feet above Presidio Lower Low Water vertical datum
NM - Not measured



LEGEND

LF5GW101 229.77	Groundwater Monitoring Well March 2006 Groundwater Elevation
1349MW103 285.10	Adjacent Study Area Well March 2006 Groundwater Elevation
BB3PZ101 139.65	Adjacent Study Area Piezometer March 2006 Groundwater Elevation
LF5SP100	Approximate Surface Water Sample Location
	Approximate Direction of Groundwater Flow
	Groundwater Elevation Contour (Contour Interval : 10 ft)
	Former Fill Site 5 and Baker Beach Disturbed Area 3 Excavation Boundaries
	Inferred Fault
	Groundwater Basin Boundary
	Topographic Contour (Contour Interval : 5 ft)
1344	Building and Number

Notes:
Groundwater elevation data collected on 6 March 2006.

AST - Above ground Storage Tank
UST - Underground Storage Tank

Location of inferred fault from Revised Feasibility Study Main Installation Sites (EKI, 2003).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW)
(topography) North American Vertical Datum, NAVD88

FILL SITE 5 SITE PLAN AND 6 MARCH 2006 GROUNDWATER ELEVATION MAP

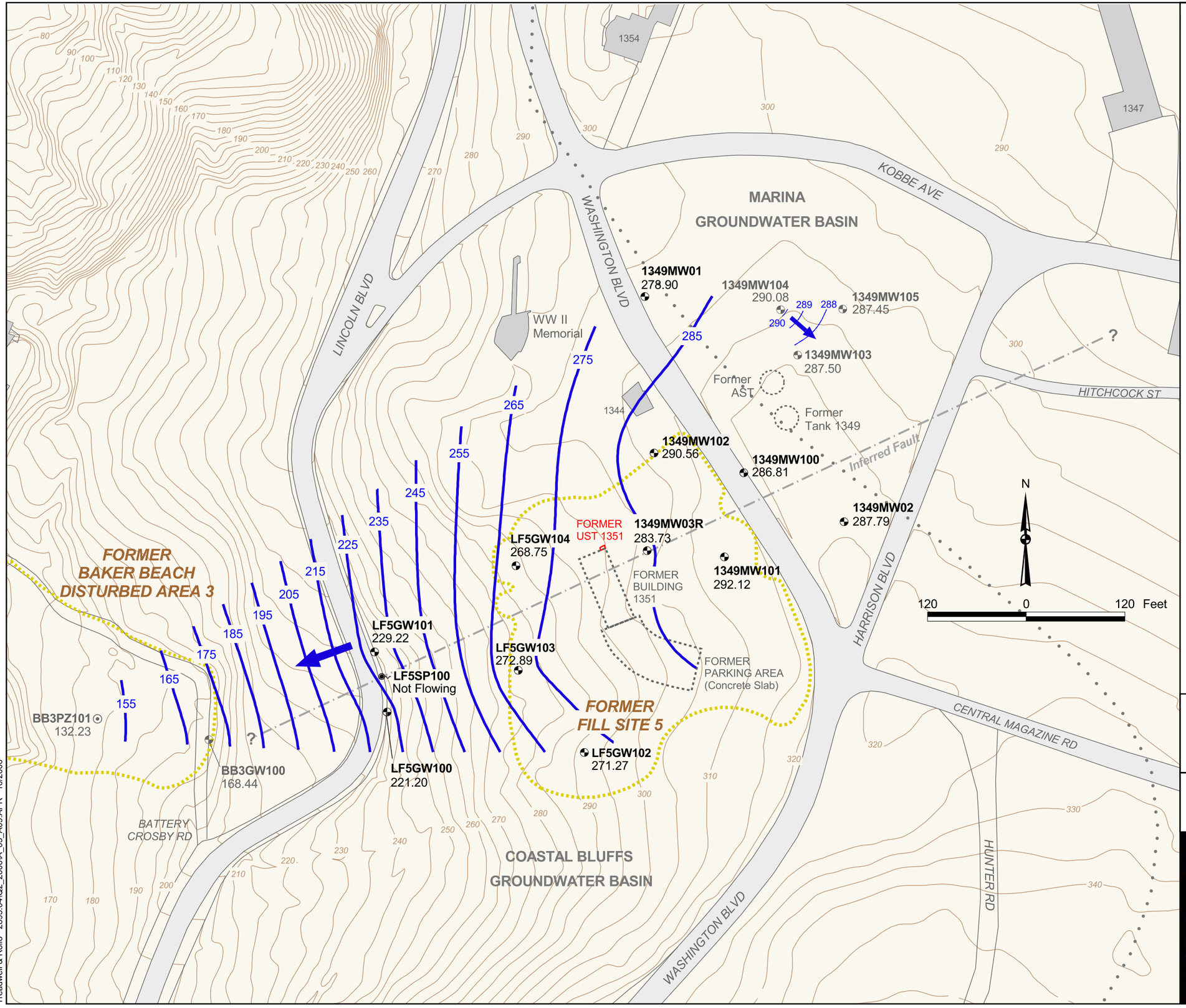
Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315
October 2006

FIGURE A-9-1

Treadwell & Rollo 2893.04\Q2_2006\A_05_A09.APR 10/2006



LEGEND

LF5GW101 229.22	Groundwater Monitoring Well May 2006 Groundwater Elevation
1349MW103 287.50	Adjacent Study Area Well May 2006 Groundwater Elevation
BB3PZ101 132.23	Adjacent Study Area Piezometer May 2006 Groundwater Elevation
LF5SP100	Approximate Surface Water Sample Location
	Approximate Direction of Groundwater Flow
	Groundwater Elevation Contour (Contour Interval : 10 ft) (Contour Interval : 1 ft)
	Former Fill Site 5 and Baker Beach Disturbed Area 3 Excavation Boundaries
	Inferred Fault
	Groundwater Basin Boundary
	Topographic Contour (Contour Interval : 5 ft)
1344	Building and Number

Notes:
Groundwater elevation data collected on 22 May 2006.

AST - Above ground Storage Tank
UST - Underground Storage Tank

Location of inferred fault from Revised Feasibility Study Main Installation Sites (EKI, 2003).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

FILL SITE 5 SITE PLAN AND 22 MAY 2006 GROUNDWATER ELEVATION MAP

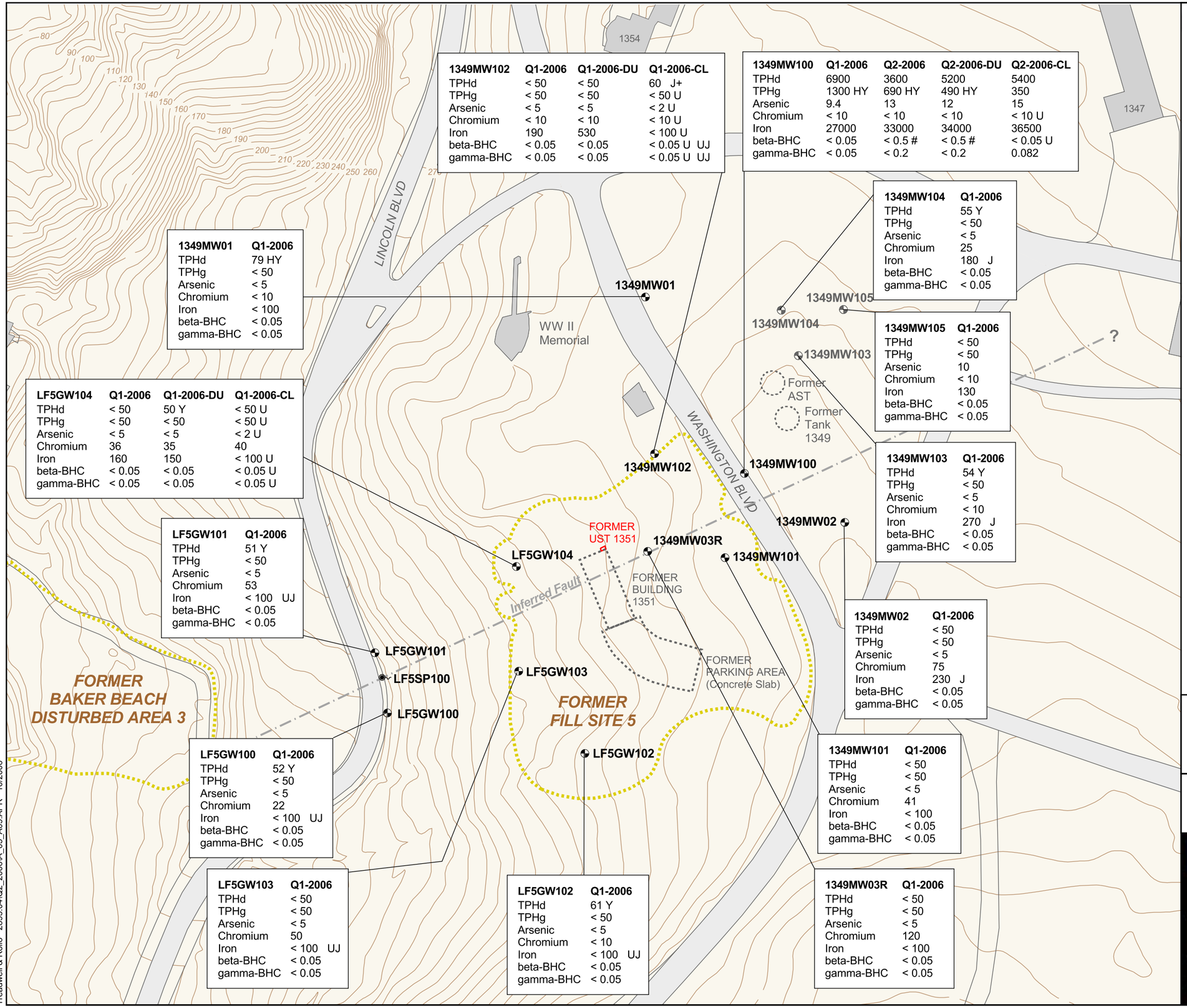
Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315
October 2006

FIGURE A-9-2

Treadwell & Rollo 2893.04\Q2_2006\A_05_A09.APR 10/2006



1349MW102	Q1-2006	Q1-2006-DU	Q1-2006-CL
TPHd	< 50	< 50	60 J+
TPHg	< 50	< 50	< 50 U
Arsenic	< 5	< 5	< 2 U
Chromium	< 10	< 10	< 10 U
Iron	190	530	< 100 U
beta-BHC	< 0.05	< 0.05	< 0.05 U UJ
gamma-BHC	< 0.05	< 0.05	< 0.05 U UJ

1349MW100	Q1-2006	Q2-2006	Q2-2006-DU	Q2-2006-CL
TPHd	6900	3600	5200	5400
TPHg	1300 HY	690 HY	490 HY	350
Arsenic	9.4	13	12	15
Chromium	< 10	< 10	< 10	< 10 U
Iron	27000	33000	34000	36500
beta-BHC	< 0.05	< 0.5 #	< 0.5 #	< 0.05 U
gamma-BHC	< 0.05	< 0.2	< 0.2	0.082

1349MW104	Q1-2006
TPHd	55 Y
TPHg	< 50
Arsenic	< 5
Chromium	25
Iron	180 J
beta-BHC	< 0.05
gamma-BHC	< 0.05

1349MW01	Q1-2006
TPHd	79 HY
TPHg	< 50
Arsenic	< 5
Chromium	< 10
Iron	< 100
beta-BHC	< 0.05
gamma-BHC	< 0.05

1349MW105	Q1-2006
TPHd	< 50
TPHg	< 50
Arsenic	10
Chromium	< 10
Iron	130
beta-BHC	< 0.05
gamma-BHC	< 0.05

LF5GW104	Q1-2006	Q1-2006-DU	Q1-2006-CL
TPHd	< 50	50 Y	< 50 U
TPHg	< 50	< 50	< 50 U
Arsenic	< 5	< 5	< 2 U
Chromium	36	35	40
Iron	160	150	< 100 U
beta-BHC	< 0.05	< 0.05	< 0.05 U
gamma-BHC	< 0.05	< 0.05	< 0.05 U

1349MW103	Q1-2006
TPHd	54 Y
TPHg	< 50
Arsenic	< 5
Chromium	< 10
Iron	270 J
beta-BHC	< 0.05
gamma-BHC	< 0.05

LF5GW101	Q1-2006
TPHd	51 Y
TPHg	< 50
Arsenic	< 5
Chromium	53
Iron	< 100 UJ
beta-BHC	< 0.05
gamma-BHC	< 0.05

1349MW02	Q1-2006
TPHd	< 50
TPHg	< 50
Arsenic	< 5
Chromium	75
Iron	230 J
beta-BHC	< 0.05
gamma-BHC	< 0.05

LF5GW100	Q1-2006
TPHd	52 Y
TPHg	< 50
Arsenic	< 5
Chromium	22
Iron	< 100 UJ
beta-BHC	< 0.05
gamma-BHC	< 0.05

1349MW101	Q1-2006
TPHd	< 50
TPHg	< 50
Arsenic	< 5
Chromium	41
Iron	< 100
beta-BHC	< 0.05
gamma-BHC	< 0.05

LF5GW103	Q1-2006
TPHd	< 50
TPHg	< 50
Arsenic	< 5
Chromium	50
Iron	< 100 UJ
beta-BHC	< 0.05
gamma-BHC	< 0.05

LF5GW102	Q1-2006
TPHd	61 Y
TPHg	< 50
Arsenic	< 5
Chromium	< 10
Iron	< 100 UJ
beta-BHC	< 0.05
gamma-BHC	< 0.05

1349MW03R	Q1-2006
TPHd	< 50
TPHg	< 50
Arsenic	< 5
Chromium	120
Iron	< 100
beta-BHC	< 0.05
gamma-BHC	< 0.05

N

120 0 120 Feet

LEGEND

- LF5GW101 Groundwater Monitoring Well
- 1349MW103 Adjacent Study Area Well
- LF5SP100 Approximate Surface Water Sample Location
- Former Fill Site 5 Excavation Boundary
- Inferred Fault
- Topographic Contour (Contour Interval : 5 ft)
- 1344 Building and Number

Notes:
Monitoring well 1349MW100 was the only well scheduled to be sampled during the Second Quarters 2006 in accordance with the proposed plan.

Groundwater concentration data in micrograms per liter (µg/L).

TPHd - Total Petroleum Hydrocarbons as Gasoline
TPHg - Total Petroleum Hydrocarbons as Diesel
CL - Quality Control Duplicate
DU - Blind Duplicate

AST - Above ground Storage Tank
UST - Underground Storage Tank

Refer to Table 11 for data qualifiers.

Location of inferred fault from Revised Feasibility Study Main Installation Sites (EKI, 2003).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datum: (topography) North American Vertical Datum, NAVD88

FILL SITE 5
2006 CHEMICAL CONCENTRATION MAP

Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315
October 2006

FIGURE A-9-3

Treadwell & Rollo 2893.04\Q2_2006\A_05_A09.APR 10/2006

First Quarter 2006

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: FIU SITE 5 | Well No.: LF5GW100

Project Number: 2843 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: Gooch/Pete | Sampled by: Gooch/pete | Date: 3/9/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 5.70

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type peristaltic
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate 250 ml/min.

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI 556, MULTIPARAMETER

Time	Liters or Gallons (ml)	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments	pmw
1039	—	6.13	13.9	2.8	1.313	137.0	6	clear	5.60
1042	750	6.19	14.3	1.6	1.330	124.9	13	"	6.19
1045	1500	6.21	14.2	1.5	1.330	101.2	11	"	6.25
1048	2250	6.22	14.2	1.4	1.330	76.1	8	"	7.29
1051	3000	6.23	14.2	1.4	1.327	63.2	8	"	7.80
1054	3750	6.24	14.1	1.4	1.326	58.6	8	"	8.10
1057	4500	6.24	14.1	1.4	1.326	55.1	7	"	8.61

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/9/06 / 1105

Purging Equipment: Pump - Type peristaltic Bailer - Type Other

Sample Filtered: (Yes) / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF5GW100	1x1L poly NP	CTT	2032	
	5x1L AMBER NP			
	6x 40ml VOA HCL			
	1x500 ml poly HNO_3			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: FLL SITE 5 | Well No.: LF5GW101

Project Number: 2693 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: Sooch S / PETE | Sampled by: Sooch / Pete | Date: 3/9/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 3.51

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type peristaltic
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate 250 ml/min.

2250 ml ~~gals~~ ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556, MODBIOMETER

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments	DTW
936	—	5.95	13.2	3.9	1.280	228.4	6	clear	3.70
939	750	6.07	13.7	2.3	1.184	224.5	6	"	4.14
942	1500	6.06	13.8	2.0	1.178	221.0	4	"	4.50
945	2250	6.06	13.9	1.8	1.170	218.8	4	"	4.79

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 3/9/06 / 950

Purging Equipment: Pump - Type: peristaltic | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF5GW101	1 X 1L poly NP	CAT	2030	
	5 X 1L amber NP			
	6 X 40ml VOA			
	1 X 500 ml poly w/ HNO_3			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 5 | Well No.: LFSGW102

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeJong | Sampled by: John DeJong | Date: 3/9/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 42.31

Depth to Water (WL, ft. below TOC): 27.36

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: DISP

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other: N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate: ~.3gpm | gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI, HACH, Myron

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1029 / Initial	8.87	13.3	Pre: 0.25	1130	—	6	clear
1032 / 0.9	8.92	13.4	—	1124	—	23	
1035 / 1.8	8.91	13.9	—	1126	—	14	
1038 / 2.7	8.97	13.9	—	1121	—	12	
1041 / 3.6	8.99	13.8	post: 0.22	1113	—	13	

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/9/06 / 1050

Purging Equipment: Pump - Type: Bailer - Type: DISP Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LFSGW102	6 40ml VOCs	CET		
	5 NP Amber			
	1 L Poly			
	1 A NO3 Poly			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Lanexill 5 | Well No.: LF5GW103

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeJong | Sampled by: (JD) John DeJong | Date: 3/9/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 24.04

Depth to Water (WL, ft. below TOC): 7.81

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.

[ ] Normal [ ] Pump \ Type

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[X] Other N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate 0.4 gal/min | gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI, HACH, Myron L

Time	Liters or Gallons	pH	Temp (C) °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
0921	Initial	7.90	12.3	pre: 0.94	1198	—	6	clear
0924	1.2	8.03	13.4	—	1179	—	94	
0927	2.4	8.09	13.9	—	1173	—	195	
0930	3.6	8.05	14.0	—	1168	—	169	
0933	4.8	8.04	14.0	post: 0.88	1164	—	173	

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/9/06 / 0940

Purging Equipment: Pump - Type | Bailer - Type: Disp | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF5GW103	6 HCl VOCs	CFT		
	5 NP AMA-13			
	1 1L poly			
	1 HNO3 poly			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 5 | Well No.: LF5GW104

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeJong | Sampled by: John DeJong | Date: 3/7/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 34.93

Depth to Water (WL, ft. below TOC): 14.74

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: DISP

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other: N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: ~.3 gpm

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI, HACH, MyRON L

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1328	Initial	7.84	14.1	Pre: 0.65	1509	—	25	clear
1330	0.9	7.66	13.7	—	1503	—	97	
1333	1.8	7.67	14.1	—	1475	—	98	
1336	2.7	7.65	14.4	post: 0.63	1467	—	106	

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/7/06, 1345

Purging Equipment: Pump - Type: Bailer - Type: DISP Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF5GW104	6 HCl VOA	CET	2104	
	5 Np Amber L			
	1 HNO3 500ml			
	1 x 1L poly			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
LF5GW104	DUP030706SB @ 1350
LF5GW104	LF5GW104CL split

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 5 | Well No.: LF5SP100

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeJong | Sampled by: John DeJong | Date: 3/21/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [X] Other Seep

Well Total Depth (TD, ft. below TOC) :

Depth to Water (WL, ft. below TOC) :

Depth to free phase (FP, ft. below TOC) :

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [X] Other Seep

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[X] Other Seep

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate | gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI, HACH, Myron L

Time	/	Liters or Gallons	pH	Temp °C/°F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
0910	/	—	7.67	8.6	8.15	327	—	>1000	cloudy
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: Double checked D.O. | Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/21/06 1 0910

Purging Equipment: Pump - Type | Bailer - Type Disp | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF5SP100	3 1 L Cl	C+T	2108	
	2 NaOH Amber	↓		
	2 HNO3	↓		
	1 L poly	↓		

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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BUILDING 231/207 AREA
APPENDIX SECTION A-10
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2006
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

The Building 231/207 Area is located in the northeast portion of the Presidio (Figure 1). The site elevation ranges from approximately 10 to 30 feet above PLLW datum.

Building 231 was built in 1950 and operated as an automobile service station for privately owned vehicles (Figure A-10-1). Building 231 was in operation until mid-1995 as an auto shop and tire store that performed a variety of automobile services. Building 228, located within the Building 231/207 Area, operated as a dry cleaner for an unknown period of time between 1950 and 1973 (Dames and Moore, 1995). Building 207 was the exchange service station and has a history of oil, fuel and gasoline station use (Harding ESE, 2003).

Samples have been collected from wells at the Building 231/207 Area since July 1993 and have been analyzed for general chemistry parameters, TPH, VOCs, and 23 dissolved metals. Groundwater samples were collected at some well locations prior to 1993, and the analytical data for that work is available in the RI Report (Dames & Moore, 1997). A summary of analytical results can be found in Tables A-10-1 through A-10-3 in this section.

The *Draft Building 231/207 Area Corrective Action Plan* (CAP) (MACTEC, 2005c), which documents the evaluation and selection of cleanup alternatives for soil and groundwater contamination at the site has recently been prepared. The CAP is discussed in greater detail in Section 3.0.

The well box elevations of monitoring wells and piezometers 231GW21, 231GW22, 231PZ03, and 231PZ04 were surveyed as part of the Data Gaps Investigation (MACTEC, 2004). The survey results presented in Table C.1 of the Data Gaps Investigation Report were subsequently determined to be incorrect due to a surveying error. The top of casing elevations presented in this report were not affected by this surveying error and are correct.

To evaluate changing redox conditions, pH, temperature and ORP were added to the program in the First Quarter 2006. The *Technical Memorandum, Evaluation of Arsenic and Other Metals in Groundwater at Three Corrective Action Plan Sites, Presidio of San Francisco, San Francisco, California* (MACTEC, 2006), concluded that ORP is a good indicator for evaluating changing redox conditions. The First Quarter 2006 pH, temperature and ORP data are presented in Table A-10-1 and will be used in the ongoing redox evaluations at CAP sites.

2.0 SITE DESCRIPTION AND GEOLOGY

The Building 231/207 Area is in the northeast portion of the Presidio on the border of the Northeastern and Crissy Field Groundwater Areas, both located within the Marina Groundwater Basin (Figure 1). Subsurface materials beneath the Building 231/207 Area consist of artificial debris fill, fine-grained estuarine deposits, and sand deposits. Groundwater studies conducted in the Building 231/207 Area identified three distinct water-bearing zones, designated as the shallow, intermediate, and deep zones. These three sandy water-bearing zones are separated by two less permeable clayey fine grained estuarine deposits (Harding ESE, 2003). The shallow zone exhibits unconfined conditions and extends to approximately 15 feet bgs. The intermediate zone is semi-confined and extends from approximately 15 to 25 feet bgs. The deep, confined zone extends from approximately 25 to 85 feet bgs. Groundwater has been reported to flow northward towards the San Francisco Bay (Montgomery Watson, 1997a).

3.0 BUILDING 207/231 AREA CAP

The CAP (Mactec, 2005c) was submitted to all stakeholders for public review on 15 July 2005. The following chemicals were identified by the CAP as chemicals of concern in soil; TPHg, TPHd, TPHfo, VOCs (BTEX, MTBE, PCE, TCE, bromobenzene, vinyl chloride, and methylene chloride), PAHs (acenaphthylene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(b+k)fluoranthene, benzo(k)fluoranthene, chrysene, fluoranthene, phenanthrene, and pyrene), metals (arsenic, chromium, cobalt, lead, mercury, nickel, silver, and zinc), and pesticides (4,4'-DDD) and PCBs (Arochlor 1016). Additionally, the following chemicals were identified by the CAP as chemicals of concern in groundwater; TPHg, TPHd, TPHfo, VOCs (BTEX, MTBE, bromobenzene, 1,2-DCA, PCE, TCE, and vinyl chloride), PAHs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(b+k)fluoranthene, benzo(k)fluoranthene, and chrysene, and indeno(1,2,3-cd)pyrene), metals (arsenic, lead, nickel, vanadium, and zinc), and PCBs (Arochlor 1016).

Based on cleanup level exceedances, five remedial units (RUs or areas of contamination exceeding cleanup levels) were identified, comprising seven areas of petroleum-related soil contamination and four areas of groundwater contamination.

The CAP recommends *Excavation and Offsite Disposal of Soil, and Groundwater Monitoring* as the preferred corrective action alternative for all RUs except the Historic Building 228 Area. The CAP recommends *Capping, Land Use Controls, In Situ Groundwater Treatment, and Groundwater Monitoring* as the preferred corrective action alternative for Historic Building 228 Area. This corrective action will be implemented by summer 2007, as detailed in the CAP (Mactec, 2005c).

Groundwater sampling at the Building 207/231 Area will be conducted in accordance with the CAP following CAP approval and implementation. Cleanup levels proposed in the CAP are presented in Tables A-10-2, A-10-3 and A-10-6.

4.0 GROUNDWATER MONITORING

The Building 231/207 Area groundwater monitoring program includes 27 monitoring wells and piezometers (Figure A-10-1). The monitoring wells associated with the Building 231/207 Area are screened within three distinct water-bearing units designated as the shallow, intermediate, and deep zones. During the First and Second Quarters 2006, groundwater elevation measurements were collected at all 27 wells and piezometers.

Twenty-six Building 231/207 Area monitoring wells were sampled during the First Quarter 2006, in accordance with Table 1A. Only one monitoring well (231GW09) was proposed for sampling at the Building 231/207 Area during the Second Quarter 2006 (Table 1B). This well was sampled as part of the Fill Site 6 monitoring program described in Appendix A, Section A-3. Monitoring well OW-1 was not proposed for sampling during either the First or Second Quarters 2006.

5.1 Groundwater-Level Measurements and Interpretation

Groundwater elevation measurements were collected at all site wells and piezometers for the First Quarter on 6 March 2006 and for the Second Quarter on 22 May 2006. Groundwater elevations are presented in Table A-10-7. Water-level meters were calibrated on 6 March and 22 May 2006. The calibration logs can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C.

During the First and Second Quarters 2006, the shallow, intermediate, and deep groundwater elevations measured within Building 231/207 monitoring wells were generally within the range of historical elevations measured at the site. The overall groundwater flow direction and gradients associated with the Building 231/207 Area are consistent with previous events.

5.1.1 Shallow Groundwater

During the First Quarter 2006, shallow zone groundwater elevations ranged from 5.27 to 11.68 feet above PLLW in monitoring wells 231GW16 and 231GW09, respectively (Figure A-10-2). During the Second Quarter 2006, shallow zone groundwater elevations ranged from 5.12 to 11.48 feet above PLLW in monitoring wells 231GW16 and 231GW09, respectively (Figure A-10-3). Groundwater elevation measurements at the Building 231/207 Area shallow monitoring wells were evaluated with measurements collected at Building 1065/1027 and Fill Site 6 shallow monitoring wells to better understand groundwater flow direction and gradients in

this area. Groundwater elevation data for these adjacent sites can be found in Tables A-11-7 and A-3-6.

During the First and Second Quarters 2006, the shallow aquifer groundwater flow direction in the Building 231/207 Area was north-northwest towards the San Francisco Bay following the general topography (Figures A-10-2 and A-10-3). During the First and Second Quarters 2006, the shallow groundwater gradient in the vicinity of Building 231 was calculated to be approximately 0.011 and 0.010 feet per foot, respectively. Groundwater gradients and flow directions remain consistent with previous findings at the site.

5.1.2 Intermediate Groundwater

During the First Quarter 2006, intermediate zone groundwater elevations ranged from 6.53 to 10.35 feet above PLLW in monitoring wells 207GW03 and 231GW27, respectively (Figure A-10-4). During the Second Quarter 2006, intermediate zone groundwater elevations ranged from 6.50 to 10.60 feet above PLLW in monitoring wells 207GW03 and 231GW18, respectively (Figure A-10-5).

Groundwater elevation measurements at the Building 231/207 intermediate aquifer monitoring wells were evaluated with Building 1065/1027 intermediate aquifer monitoring wells to better understand groundwater flow direction and gradient in the intermediate aquifer. These groundwater level data can be found in Table A-11-7. During the First and Second Quarters 2006, the intermediate aquifer groundwater flow direction in the Building 231/207 and Building 1065/1027 Areas was generally north-northwesterly, towards the San Francisco Bay following the general topography (Figures A-10-4 and A-10-5). However, a slight depression in the potentiometric surface was present east of Building 231. During the First and Second Quarters 2006, the average intermediate groundwater gradient was calculated in the vicinity of Building 231 to be approximately 0.007 feet per foot, during both the First and Second Quarters. Groundwater gradients and flow directions remain consistent with previous findings at the site.

5.1.3 Deep Groundwater

During the First Quarter 2006, deep zone groundwater elevations ranged from 11.52 to 11.65 feet above PLLW in monitoring wells 231GW17 and 231GW20, respectively (Figure A-10-6). During the Second Quarter 2006, deep zone groundwater elevations ranged from 11.53 to 11.68 feet above PLLW in monitoring wells 231GW13 and 231GW17, respectively (Figure A-10-7). Groundwater flow direction in the deep aquifer was north-northwesterly towards San Francisco Bay during the First Quarter 2006 and north-northeasterly during the Second Quarter 2006 (Figures A-10-6 and A-10-7). The groundwater gradient within the deep aquifer was calculated to be approximately 0.0005 feet per foot during the First Quarter 2006 and 0.0006 feet per foot during the Second Quarter 2006. The deep groundwater flow direction has typically ranged from northeasterly to northwesterly since 2001.

5.1.4 Vertical Gradients

Building 231/207 Area vertical gradient estimates are presented in Table A-10-8. Vertical groundwater gradients were calculated for four well clusters, WC-1, WC-2, WC-3, and WC-4 during the First and Second Quarters 2006. Clusters WC-1, WC-2, and WC-3 each have piezometers screened within the three distinct water-bearing zones. Cluster WC-4 has piezometers screened within the shallow and intermediate water-bearing zones. A description of which piezometers are contained in each well cluster can be found in Table A-10-8. Upward vertical gradients were determined to be present between all groundwater zones at all well clusters during the First Quarter 2006. Upward vertical gradients were determined to be present between all groundwater zones at all well clusters, except between the shallow and intermediate zones within WC-4 during the Second Quarter 2006. Both upward and downward vertical gradients have historically been measured in well cluster WC-4.

5.2 Groundwater Purging and Sampling

During the First Quarter 2006, all 26 monitoring wells and piezometers scheduled for sampling during the First Quarter 2006 were purged and sampled between 8 March and 16 March 2006. During the Second Quarter 2006, Building 231/207 monitoring well 231GW09 was the only well scheduled for sampling and it was purged and sampled on 24 May 2006. Monitoring well 231GW09 is sampled to serve as a downgradient well for Fill Site 6A. All purging and sampling was conducted in accordance with methods shown in Tables 1A and 1B and procedures described in the FSP (Treadwell & Rollo, 2001a).

All samples were collected using methods shown in Tables 1A and 1B and in accordance with procedures described in the FSP (Treadwell & Rollo, 2001a).

Purging equipment, purging volumes, purge water parameters, and sampling equipment for each monitoring well are described in the purge records at the conclusion of this section. Purge water was stored for future disposal in one of two 2,800-gallon aboveground polyethylene storage tanks, which are located at the Central Magazine.

5.3 Groundwater Analytical Program

All groundwater samples were submitted to the project laboratory for the analyses shown in Tables 1A and 1B of the main text. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are shown in Table 5. Sample containers used for each well are described in the purge records located at the conclusion of this section.

QA/QC samples were collected as part of this program. Section 6.2 of the main text discusses the QA/QC sampling and analysis performed for the First and Second Quarters 2006.

6.0 GROUNDWATER ANALYTICAL RESULTS

Groundwater samples collected during the First Quarter 2006 at the Building 231/207 Area were analyzed for general chemistry parameters, TOC, dissolved metals, TDS, dissolved oxygen, VOCs, MTBE, total sulfides, TPHg, TPHd, and TPHfo. Groundwater samples collected during the Second Quarter 2006 at the Building 231/207 Area were analyzed for general chemistry parameters, dissolved metals, TDS, dissolved oxygen, VOCs, MTBE, total sulfides, TPHg, TPHd, and TPHfo. Additionally, redox (pH, ORP and temperature) parameters were measured within wells sampled during the First and Second Quarters 2006.

The TPHfo standard currently being used is a TPHmo standard, as defined by the Presidio QAPP, with a carbon range of C_{24} to C_{36}. Section 5.4.3.1 in the main report discusses the data compatibility issues associated with TPH analyses.

The analytical results associated with Fill Site 6A parameters are presented and discussed in Appendix A, Section A-3. Building 231/207 Area analytical results are presented in Tables A-10-1 through A-10-6. ORP, pH, and temperature were measured in the field and results are presented in Table A-10-1.

6.1 General Chemistry Results

Table A-10-1 summarizes the results of general chemistry analysis within the Building 237/207 Area.

The following table summarizes new high and low general chemistry analytical results for the First and Second Quarters 2006 within the Building 231/207 Area when compared to historical data, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date of commencement of sampling, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
General Chemistry							
207GW03	Sulfide	2 / 2	2.5	2.5	--	3.4 *	mg/L
231GW06	Alkalinity, Total	11 / 11	227	290	220	--	mg/L
	Bicarbonate	11 / 11	227	290	220	--	mg/L
	Chloride	11 / 11	56.1 *	95	50	--	mg/L
	Nitrate	10 / 11	0.1	3.69 *	< 0.05	--	mg/L
	Sulfate	11 / 11	62.2 *	76	47	--	mg/L
231GW09	Chloride	26 / 26	42.4 *	75.1 *	22	--	mg/L
	Nitrate	26 / 26	5.5	45.6 *	4.6	--	mg/L
	Sulfate	26 / 26	65	92.8 *	35	--	mg/L

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
General Chemistry							
231GW10	Alkalinity, Total	11 / 11	391	683	--	820	mg/L
	Bicarbonate	11 / 11	391	683	--	820	mg/L
	Fluoride	2 / 2	0.35	0.35	--	0.37	mg/L
231GW11	Sulfide	1 / 2	0.3	0.3	< 0.04	--	mg/L
231GW13	Fluoride	2 / 2	0.45	0.45	--	0.51	mg/L
231GW15	Chloride	12 / 12	58.8	83.8	57	--	mg/L
	Fluoride	1 / 2	< 0.1	< 0.1	--	0.11	mg/L
231GW16	Fluoride	2 / 2	0.32	0.32	--	0.45	mg/L
	Sulfide	2 / 2	0.19	0.19	0.07 *	--	mg/L
231GW17	Alkalinity, Total	12 / 12	181	220	--	250	mg/L
	Bicarbonate	12 / 12	181	220	--	250	mg/L
	Chloride	12 / 12	30.5	45.8	30	--	mg/L
231GW18	Nitrate	12 / 12	6.4	8.3	5.4	--	mg/L
231GW19	Sulfide	1 / 2	< 0.04	< 0.04	--	0.06 *	mg/L
231GW20	Alkalinity, Total	11 / 11	140	232	78	--	mg/L
	Bicarbonate	11 / 11	140	232	78	--	mg/L
	Chloride	11 / 11	39	67	16	--	mg/L
	Nitrate	11 / 11	0.91	2.34 *	0.6	--	mg/L
	Sulfate	11 / 11	12	26.7 *	9.6	--	mg/L
231GW21	Chloride	16 / 16	33	65	32	--	mg/L
231GW22	Alkalinity, Total	12 / 12	645	741	--	760	mg/L
	Bicarbonate	12 / 12	645	741	--	760	mg/L
	Chloride	12 / 12	58	281 *	57	--	mg/L
	Fluoride	4 / 4	0.24	0.24	--	0.26	mg/L
231GW23	Alkalinity, Total	10 / 10	418	510	410	--	mg/L
	Bicarbonate	10 / 10	418	510	410	--	mg/L
	Chloride	10 / 10	52.8 *	68	47	--	mg/L
	Fluoride	2 / 2	0.34	0.34	0.31	--	mg/L
	Sulfate	6 / 10	< 0.5	9.5	--	11	mg/L
231GW24	Alkalinity, Total	10 / 10	220	299	--	330	mg/L
	Bicarbonate	10 / 10	220	299	--	330	mg/L
	Sulfate	10 / 10	16.8 *	37.3 *	--	40	mg/L
231GW25	Alkalinity, Total	10 / 10	490	794	--	800	mg/L
	Bicarbonate	10 / 10	490	794	--	800	mg/L
	Chloride	10 / 10	50	91.1 *	48	--	mg/L
	Fluoride	2 / 2	0.46	0.46	0.42	--	mg/L
231GW26	Alkalinity, Total	10 / 10	222	260	--	290	mg/L
	Bicarbonate	10 / 10	222	260	--	290	mg/L
	Chloride	10 / 10	63	101	44	--	mg/L
231GW27	Sulfate	9 / 10	< 7.6	68	--	70	mg/L

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
General Chemistry							
231GW28	Chloride	10 / 10	18	36.4 *	15	--	mg/L
	Nitrate	9 / 10	0.46	7.89 *	< 0.05	--	mg/L
	Sulfate	10 / 10	13	76	1.9	--	mg/L
	Sulfide	1 / 2	0.05 *	0.05 *	< 0.04	--	mg/L
231GW29	Alkalinity, Total	10 / 10	234	280	--	300	mg/L
	Bicarbonate	10 / 10	234	280	--	300	mg/L
	Nitrate	10 / 10	2.5	4.89 *	1	--	mg/L
231GW30	Fluoride	2 / 2	0.35	0.35	--	0.39	mg/L
231PZ01	Chloride	5 / 5	80.6 *	87.1 *	48	--	mg/L
	Fluoride	2 / 2	0.31	0.31	0.24	--	mg/L
	Sulfate	4 / 5	< 0.5	0.495	--	0.78	mg/L
231PZ02	Alkalinity, Total	5 / 5	494	760	--	890	mg/L
	Bicarbonate	5 / 5	494	760	--	890	mg/L
	Sulfate	5 / 5	4.6	52.7 *	1.6	--	mg/L
	Sulfide	2 / 2	0.11 *	0.11 *	0.07 *	--	mg/L
231PZ03	Sulfide	1 / 2	0.08 *	0.08 *	< 0.04	--	mg/L
231PZ04	Sulfide	1 / 2	0.06 *	0.06 *	< 0.04	--	mg/L

Qualified data in the table above is indicated with an asterisk (*).

Significant new high and low general chemistry results are discussed below.

Nitrate was not detected above the reporting limit of 0.05 mg/L within 231GW06 or 231GW28, during the First Quarter 2006. The previous low concentrations within 231GW06 and 231GW28 were 0.1 mg/L and 0.46 mg/L, respectively. This is the first time nitrate has not been detected in these wells since sample collection began in 1997. Nitrate was detected at a new low concentration of 1 mg/L within 231GW29 during the First Quarter 2006. The previous low concentration within 231GW28 was 2.5 mg/L. Nitrite was not detected in any groundwater samples analyzed from the Building 231/207 Area during the First or Second Quarters 2006.

Sulfate was detected during the First Quarter 2006 at concentrations significantly lower than previous detections within 231GW28 and 231PZ02.

Sulfide was not detected above the reporting limit of 0.04 mg/L within 231GW11, 231GW28, 231PZ03, and 231PZ04 during the First Quarter 2006. The previous low concentrations within 231GW11, 231GW28, 231PZ03, and 231PZ04 were 0.3 mg/L, 0.05 mg/L, 0.08 mg/L and 0.06 mg/L, respectively.

The remaining new high and low concentrations from the First and Second Quarters 2006 can be attributed to natural fluctuations and are not considered significant. An evaluation of the redox state of site groundwater and associated general chemistry results can be found in Section 7.0.

6.2 Dissolved Oxygen

Table A-10-2 summarizes dissolved oxygen measurements. Dissolved oxygen was measured within historical ranges in the majority of Building 231/207 Area monitoring wells and piezometers during the First Quarter 2006. Dissolved oxygen concentrations measured during the First Quarter 2006 ranged from 0.13 mg/L to 2.41 mg/L in wells 231GW28 and 231GW09, respectively. Dissolved oxygen was detected at a new low concentration of 0.43 mg/L within 231GW27.

Dissolved oxygen was measured within monitoring well 231GW09 at a concentration of 2.6 mg/L during the Second Quarter 2006, which is within the range of previously measured concentrations within this well.

6.3 TPH Results

Table A-10-2 and Figure A-10-8 summarize the TPH results for the Building 237/207 Area during the First and Second Quarters 2006.

The following table summarizes new high and low TPH analytical results for the First and Second Quarters 2006 within the Building 231/207 Area when compared to historical data, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date of commencement of sampling, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Total Petroleum Hydrocarbons							
231GW21	TPH As Fuel Oil C24-C36	2 / 34	< 300	430	--	5,400	µg/L
	TPH As Fuel Oil C24-C36	2 / 34	< 300 *	430	--	5,400	µg/L
231GW24	TPH As Diesel C12-C24	1 / 23	< 50	< 50	--	55 *	µg/L
231GW28	TPH As Diesel C12-C24	3 / 20	< 50	100 *	--	160 *	µg/L

Qualified data in the table above is indicated with an asterisk (*).

Significant new high and TPH results are discussed below.

TPHg was detected within 231GW21, 231GW22, and 231PZ01 through 231PZ04. TPHg was detected in the primary, duplicate and QC duplicate samples collected from 231GW21 at concentrations of 3,100, 3,400, and 3,600 µg/L, respectively. TPHg was also detected in the

primary and the duplicate samples collected from 231GW22 at concentrations of 8,400 and 14,000 µg/L, respectively. TPHg concentrations within 231GW21 and 231GW22 continue to fluctuate within historical bounds.

TPHg was detected during the First Quarter 2006 at concentrations of 9,300, 780, 4,000, and 5,300 µg/L within piezometers 231PZ01, 231PZ02, 231PZ03, and 231PZ04, respectively. All concentrations detected within these piezometers are within the historical range.

TPHd was detected within 207GW03, 231GW19, 231GW21, 231GW22, 231GW24, 231GW28, 231GW29, and 231PZ01 through 231PZ04. TPHd was detected at concentrations of 55 µg/L, 65 µg/L, 55 µg/L, 160 µg/L, and 57 µg/L within wells 207GW03, 231GW19, 231GW24, 231GW28, and 231GW29, respectively.

TPHd was detected in the primary, duplicate and QC duplicate samples collected from 231GW21 at concentrations of 330, 1,300, and 1,200 µg/L, respectively. The difference in concentrations between the primary, duplicate and the QC duplicate sample concentrations collected from monitoring well 231GW21 exceeded the QAPP-specified 50% criteria for TPHd. The TPHd concentration detected within the duplicate sample and QC duplicate samples was significantly higher than in the primary sample result. The primary, duplicate and QC duplicate samples were all collected at the same time and there is no clear reason as to why the analytical results vary so drastically for TPHd.

TPHd was also detected in the primary and the duplicate samples collected from 231GW22 at concentrations of 300 µg/L and 330 µg/L, respectively. TPHd concentrations within 231GW21 and 231GW22 continue to fluctuate significantly within historical bounds.

TPHd was detected during the First Quarter 2006 at concentrations of 360, 430, 200, and 350 µg/L within piezometers 231PZ01, 231PZ02, 231PZ03, and 231PZ04, respectively. All detected concentrations within these piezometers are within the range of concentrations previously reported.

TPHfo was detected during the First Quarter 2006 in the duplicate sample collected from 231GW21 at a concentration of 5,400 µg/L. TPHfo was not detected within the primary or the QC duplicate samples collected from this well. The TPHfo detection exceeds the CAP cleanup level of 443 µg/L, and is higher than the only previous TPHfo detection (430 µg/L) within 231GW21 in the First Quarter 2005. The difference in concentrations between the primary, duplicate and the QC duplicate sample concentrations collected from monitoring well 231GW21 exceeded the QAPP-specified 50% criteria for TPHfo. The primary, duplicate and QC duplicate samples were all collected at the same time and there is no clear reason as to why the analytical results vary so drastically for TPHfo.

TPH was not detected in the sample collected from Building 231/207 Area monitoring well 231GW09 during the First or Second Quarters 2006.

In accordance with RWQCB Order No. R2-2003-0080, 2006 TPHg groundwater analytical results and an approximate TPHg freshwater protection zone screening level contour (443 µg/L) are presented on Figure A-10-8.

6.4 VOC, BTEX, and MTBE Results

During the First Quarter 2006, all Building 231/207 Area monitoring wells sampled were for VOCs. Monitoring well 231GW09 was the only Building 231/207 monitoring well proposed for sampling during the Second Quarter 2006. A summary of VOC analytical results is presented in Table A-10-3 and on Figure A-10-8 and is discussed below.

VOCs were detected within the following monitoring wells and piezometers during the First Quarter 2006: 231GW17, 231GW18, 231GW21, 231GW22, 231GW27, 231GW28, and 231PZ01 through 231PZ04.

No VOCs were detected within monitoring well 231GW09 during the Second Quarter 2006.

The following table summarizes new high and low VOC analytical results for the First and Second Quarters 2006 within the Building 231/207 Area when compared to historical data, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date sampling commenced, and the number of duplicate analyses performed. Only the new high or new low concentrations are shown.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Volatile Organic Compounds							
231GW21	Chloroform	1 / 37	< 0.5	< 120	--	2.7	µg/L
	Chloroform	1 / 37	< 0.5 *	< 120	--	2.7	µg/L
231PZ01	Toluene	14 / 18	< 100	1,700	< 31	--	µg/L
231PZ03	Toluene	12 / 18	< 5	5.8	--	6.9	µg/L
231PZ04	Toluene	11 / 18	< 5	6.1	--	6.4	µg/L

Qualified data in the table above is indicated with an asterisk (*).

Significant VOC results are discussed below.

Chloroform was detected in the QC sample for the first time within 231GW21 at a concentration of 2.7 µg/L. Chloroform was not detected within the primary or duplicate samples collected from 231GW21 during the First Quarter 2006. The difference in concentrations between the primary, duplicate and the QC duplicate sample concentrations collected from monitoring well 231GW21 exceeded the QAPP-specified 50% criteria for chloroform. The primary, duplicate and QC duplicate samples were all collected at the same time and there is no clear reason as to why the analytical results vary for chloroform.

- Benzene, ethylbenzene, toluene, and total xylenes were detected at concentrations lower than recent monitoring events within 231GW21 during the First Quarter 2005. Benzene concentrations detected within the primary, the duplicate and the QC duplicate samples collected from 231GW21 (ranging from 89 to 110 µg/L) all exceed the CAP-specified cleanup level of 1 µg/L. No other VOC concentrations exceeded CAP-specified cleanup levels within the 231GW21 sample during the First Quarter 2006.

- Benzene (4,400 µg/L), ethylbenzene (230 µg/L), toluene (60 µg/L), and total xylenes (550 µg/L) concentrations within monitoring well 231GW22 were all detected within the range of historical concentrations measured within this well. However, the detected concentrations of benzene, ethylbenzene and total xylenes were all in excess of the their respective CAP-specified cleanup levels (Table A-10-3 and Figure A-10-8).

- MTBE was detected within 231GW28 at a concentration of 2.4 µg/L, which is significantly lower than the First Quarter 2006 detection within this well (12 µg/L), and closer to historical concentrations.

- Benzene and ethylbenzene were detected at concentrations (4,500 and 310 µg/L, respectively) exceeding their respective CAP-specified cleanup levels within 231PZ01 during the First Quarter 2006. The benzene concentration detected within 231PZ01 is lower than recent detections within this same piezometer. The ethylbenzene concentration had been dropping steadily since First Quarter 2003, but was elevated in First Quarter 2006. Toluene was not detected in 23PZ01 for the first time since Second Quarter 1999.

- Benzene was detected above its CAP-specified cleanup level of 1 µg/L within 231PZ02 (30 µg/L), 231PZ03 (280 µg/L), and 231PZ04 (440 µg/L) during the First Quarter 2006.

- Toluene was detected at new high concentrations within 231PZ03 (6.9 µg/L) and 231PZ04 (6.4 µg/L) during the First Quarter 2006.

Generally, VOC concentrations within Building 231/207 Area monitoring wells and piezometers are stable.

6.5 TOC and Dissolved Gas Results

TOC was analyzed within Building 231/207 Area groundwater samples collected during the First and Quarter 2006. TOC analytical results are presented in Table A-10-4 and are discussed below. TOC was detected in all Building 231/207 Area monitoring well and piezometer samples during the First Quarter 2006 and ranged from 0.74 mg/L in monitoring well 231GW17 to 45 mg/L in piezometers 231PZ01 and 231PZ02.

Dissolved gases (ethane, ethene, and methane) were removed from the program for evaluation of redox conditions, in accordance with recommendations from the *Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites* (MACTEC, 2006).

An evaluation of the redox state of site groundwater and related TOC results can be found in Section 7.0.

6.6 Dissolved Metals and TDS Results

The table below summarizes new high and low dissolved metal results for the First and Second Quarter 2006 within Building 231/207 Area monitoring wells and piezometers when compared to historical data, and provides the range and frequency of historical results (Table A-10-6). The total number of analyses may vary depending on the sampling frequency, the date sampling commenced, and on the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Metals, Dissolved							
207GW03	Calcium	3 / 3	21,000	21,800	20,000	--	µg/L
	Magnesium	3 / 3	36,000	36,700	35,000	--	µg/L
	Manganese	6 / 7	14	51.3	< 10	--	µg/L
231GW06	Arsenic	3 / 3	5.52	6.1	--	7.2	µg/L
	Copper	1 / 3	< 1	< 1	--	1.4	µg/L
	Copper	1 / 3	< 1 *	< 1 *	--	1.4	µg/L
	Iron	2 / 12	< 50	113	--	150 *	µg/L
	Magnesium	3 / 3	45,400	48,000	35,000	--	µg/L
	Sodium	3 / 3	64,700	65,000	58,000	--	µg/L
231GW09	Barium	16 / 16	46	58	31	61	µg/L
	Calcium	17 / 17	22,000	60,200	15,000	--	µg/L
	Magnesium	17 / 17	39,000	60,700	24,000	--	µg/L
	Sodium	16 / 16	62,000	129,000	42,000	--	µg/L
	Total Dissolved Solids	26 / 26	420	790	320 *	--	mg/L
231GW10	Arsenic	3 / 3	10	10.6	8.9	--	µg/L
	Calcium	3 / 3	28,000	53,000	--	58,000 *	µg/L
231GW11	Calcium	3 / 3	32,000	32,300	29,000	--	µg/L
	Iron	13 / 13	1,060	5,210	820 *	--	µg/L
	Magnesium	3 / 3	56,900	57,000	44,000	--	µg/L
	Manganese	11 / 11	101	246	78	--	µg/L
	Potassium	3 / 3	11,000	11,700	9,000 *	--	µg/L
	Sodium	3 / 3	74,100	92,000	--	99,000	µg/L
	Zinc	1 / 2	< 20	< 20	--	21	µg/L

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Metals, Dissolved							
231GW13	Arsenic	3 / 3	30.2 *	32	--	35	µg/L
	Calcium	4 / 4	1,670	3,000	1,600	--	µg/L
	Manganese	11 / 11	16.6	96	--	100	µg/L
	Sodium	4 / 4	254,000	280,000	--	330,000	µg/L
	Total Dissolved Solids	12 / 12	653	920	640	--	mg/L
231GW15	Magnesium	4 / 4	40,200	49,000	37,000	--	µg/L
	Manganese	10 / 11	< 10	180	--	190	µg/L
231GW16	Potassium	3 / 3	14,000	14,800	--	16,000	µg/L
	Sodium	3 / 3	150,000	171,000	--	220,000	µg/L
231GW17	Sodium	4 / 4	35,000	40,000	--	43,000	µg/L
	Total Dissolved Solids	11 / 11	352	410	--	480 *	mg/L
231GW18	Calcium	4 / 4	22,000	23,400	--	27,000	µg/L
	Chromium	3 / 3	14.1	15	14	--	µg/L
	Magnesium	4 / 4	46,000	50,400	--	55,000	µg/L
	Sodium	4 / 4	44,000	52,000	--	58,000	µg/L
231GW19	Arsenic	3 / 3	8.2	9.14 *	--	9.2	µg/L
231GW20	Calcium	4 / 4	13,000	13,600	--	15,000	µg/L
	Copper	1 / 3	< 1	< 1	--	2.8	µg/L
	Magnesium	4 / 4	34,000	42,900	9,100	--	µg/L
	Potassium	3 / 4	< 5,000	1,000	--	2,400 *	µg/L
	Sodium	4 / 4	43,000	46,100	14,000	--	µg/L
231GW21	Calcium	8 / 8	74,000 *	103,000	60,000	--	µg/L
	Manganese	15 / 15	1,400 *	3,960	820	--	µg/L
	Potassium	7 / 8	5,200	7,000	< 5,000 *	--	µg/L
	Sodium	8 / 8	57,000	93,000	47,000	--	µg/L
231GW22	Arsenic	6 / 6	23.6	30	--	31	µg/L
	Sodium	5 / 5	91,000	113,000	83,000	--	µg/L
	Total Dissolved Solids	11 / 11	829	995	--	1,170	mg/L
	Zinc	1 / 4	< 20	< 20	--	21	µg/L
231GW23	Arsenic	2 / 3	5.66 *	6.1	< 5	--	µg/L
	Copper	1 / 3	< 1	< 1	--	1.1	µg/L
	Magnesium	3 / 3	58,100	66,000	52,000	--	µg/L
	Potassium	3 / 3	18,000	20,600	16,000 *	--	µg/L
	Sodium	3 / 3	57,700	62,000	--	63,000	µg/L
	Total Dissolved Solids	10 / 10	370	586	--	600 *	mg/L
231GW24	Manganese	10 / 10	58.3	148	--	170	µg/L
	Total Dissolved Solids	10 / 10	320	443	--	470 *	mg/L
231GW25	Calcium	3 / 3	77,000	86,400	--	95,000	µg/L
	Iron	10 / 10	1,660	18,000	--	29,000 *	µg/L
	Magnesium	3 / 3	58,000	63,400	--	66,000	µg/L
	Sodium	3 / 3	120,000	136,000	--	150,000	µg/L
	Total Dissolved Solids	10 / 10	630	928	610 *	--	mg/L

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Metals, Dissolved							
231GW26	Calcium	3 / 3	29,700	31,000	27,000	--	µg/L
	Magnesium	3 / 3	43,900	47,000	43,000	--	µg/L
	Manganese	9 / 10	13	48	< 10	--	µg/L
231GW27	Calcium	3 / 3	16,600	29,000	--	30,000	µg/L
	Chromium	3 / 3	11.1	23	--	30	µg/L
	Potassium	2 / 3	< 5,000	600	--	670 *	µg/L
	Sodium	3 / 3	25,500	51,000	--	57,000	µg/L
231GW28	Arsenic	3 / 3	5.01	5.8	--	6.3	µg/L
	Calcium	3 / 3	19,800	43,000	--	53,000	µg/L
	Iron	6 / 10	< 100	15,000	--	16,000 *	µg/L
	Manganese	10 / 10	19.2	760	--	1,400	µg/L
	Potassium	2 / 3	< 5,000	2,000	--	3,100 *	µg/L
	Sodium	3 / 3	36,000	49,600	26,000	--	µg/L
231GW29	Magnesium	3 / 3	54,000	54,800	--	58,000	µg/L
	Potassium	2 / 3	< 5,000	4,000	--	4,400	µg/L
	Sodium	3 / 3	47,000	48,100	--	51,000 *	µg/L
	Total Dissolved Solids	10 / 10	452	520	--	590 *	mg/L
231GW30	Arsenic	3 / 3	6.8	6.97	--	7.2	µg/L
	Copper	2 / 3	1.2	1.5	< 1	--	µg/L
	Potassium	3 / 3	8,400	17,100	8,200	--	µg/L
	Sodium	3 / 3	83,000	137,000	81,000	--	µg/L
231PZ01	Arsenic	3 / 3	7.43	17	--	22	µg/L
	Calcium	3 / 3	73,000	110,000	--	130,000	µg/L
	Copper	1 / 3	< 1	< 1	--	1	µg/L
	Lead	2 / 2	5.4	5.4	--	6.3	µg/L
	Manganese	6 / 6	1,080	2,400	--	3,000	µg/L
	Potassium	3 / 3	24,500	29,000	--	38,000	µg/L
	Sodium	3 / 3	87,500	100,000	86,000	--	µg/L
	Total Dissolved Solids	7 / 7	804	1,080	--	1,120	mg/L
	Zinc	1 / 2	< 20	< 20	--	22	µg/L
231PZ02	Calcium	3 / 3	131,000	140,000	--	160,000 *	µg/L
	Iron	5 / 5	796	3,300	--	5,600	µg/L
	Sodium	3 / 3	125,000	130,000	--	180,000	µg/L
231PZ03	Calcium	3 / 3	42,100	77,000	--	85,000	µg/L
	Iron	7 / 7	265	15,000	--	16,000	µg/L
	Sodium	3 / 3	51,000	88,700	48,000	--	µg/L
	Total Dissolved Solids	7 / 7	540	603	--	790	mg/L
231PZ04	Magnesium	3 / 3	61,000	61,800	54,000	--	µg/L
	Potassium	2 / 3	< 5,000	5,700	--	6,000	µg/L

Qualified data in the table above is indicated with an asterisk (*).

The majority of the new high or low detections were only slightly higher or lower than previous highs and lows or are the result of the relatively few groundwater samples collected for certain metals and are not considered significant. Significant dissolved metals detections are discussed below.

- Dissolved arsenic was detected in the primary, duplicate, and QC duplicate samples collected from 231GW21 at concentrations of 18, 22, and 19 µg/L, respectively. Dissolved arsenic was detected in both the primary and duplicate samples collected from 231GW22 at a concentration of 31 µg/L. Dissolved arsenic was detected above the CAP-specified cleanup level (10 µg/L) in samples from wells 231GW13, 231GW21, 231GW22, 231GW25, and 231PZ01. Additionally, dissolved arsenic was detected at the cleanup level within 231PZ04.

- Dissolved copper was detected at new high concentrations of 1.4, 2.8, and 1.1 µg/L within monitoring wells 231GW06, 231GW20, and 231GW23, respectively, and at a new high concentration of 1 µg/L within piezometer 231PZ01, during the First Quarter 2006. This is the first time dissolved copper has been detected within these locations. The detected concentrations do not exceed the CAP-specified cleanup level of 2.9 µg/L.

- Dissolved lead was detected in the primary, duplicate, and QC samples collected from 231GW21 at concentrations of 4.6, 6.3, and 4.2 µg/L, respectively, during the First Quarter 2006. Dissolved lead was also detected in the primary and duplicate samples collected from 231PZ01 at concentrations of 6.3 and 5.4 µg/L, respectively. All detected concentrations exceed the CAP-specified cleanup level of 2.5 µg/L.

- Dissolved manganese was not detected within monitoring wells 207GW03 and 231GW26 during the First Quarter 2006, for the first time since 1998 and 1997, respectively.

- Dissolved nickel was detected in monitoring well 231GW09 at a concentration of 29 µg/L during the First Quarter 2006, which exceeds the CAP-specified cleanup level of 8.2 µg/L, but is within the range of previous concentrations.

- Dissolved sodium was detected at a new low concentration of 14,000 µg/L within monitoring well 231GW20, during the First Quarter 2006. Sodium does not have a CAP-specified cleanup level.

- Dissolved zinc was detected at new high concentrations, but not above cleanup levels, within any Building 231/207 Area monitoring wells 231GW11, 231GW22 and piezometer 231PZ01 during the First Quarter 2006.

The percent recoveries for calcium, magnesium, manganese and sodium were outside the QAPP-specified 75-125% project acceptance criteria in the QC duplicate MS/MSD sample from

monitoring well 231GW10. The primary sample results for these metals were over four times greater than the amounts spiked, therefore, qualification was not required.

TDS was detected in all Building 231/207 Area groundwater samples at concentrations ranging from 240 mg/L in 231GW20 to 1,170 mg/L in the duplicate sample from monitoring well 231GW22.

An evaluation of the redox state of site groundwater and select dissolved metals results can be found in Section 7.0.

7.0 GROUNDWATER REDOX EVALUATION

Several parameters were measured in the field and in the laboratory to help determine the redox state of groundwater at the Building 231/207 Area. The following parameters were included in the groundwater monitoring program at the Building 231/207 Area during the First and Second Quarters 2006 and are indicators of changing redox potential within groundwater, with the exception of ORP. ORP is only measured in monitoring wells proposed for sampling by the 'low flow' method and only Building 231/207 Area monitoring wells 231GW10, 231GW16, 231GW21, 231GW22, and 231GW30 and piezometers 231PZ01 through 231PZ04 are sampled by 'low flow'. ORP measurements are located in the purge records, which are located at the conclusion of this section. The analytes and their use, in terms of determining the current redox state of site groundwater, are listed below.

- **Dissolved Oxygen** – Dissolved oxygen is a field measurement that is collected using a flow through cell or a down-hole probe. Low dissolved oxygen concentrations are typically associated with low redox potential and reducing environments. Dissolved oxygen in the presence of organic carbon is consumed by microorganisms during biodegradation processes and therefore low dissolved oxygen concentrations are indicative of microbial activity.

- **ORP** – ORP is a measurement that is collected in the field with the use of a flow through cell. Groundwater is pumped directly from the aquifer into the flow through cell without being exposed to air. The ORP is then measured by sensors within the flow through cell and recorded. ORP is a direct measurement of redox potential. However, ORP is not equivalent to redox potential. Depending on the type of sensor used and the temperature of the water, redox potential (eH) can be calculated. In general, the lower the ORP values the more reducing the water is, where as, the greater the ORP value the more oxidizing the water is. ORP measurements are recorded on the monitoring well purge records.

- **Nitrate/Nitrite** – The process of denitrification reduces nitrate to nitrite, which is ultimately reduced to nitrogen gas in reducing environments. A decreasing nitrate concentration trend in groundwater can be indicative of low redox potential, microbial

metabolism and a reducing environment. Increasing concentrations of nitrate are typically associated with a rising redox potential.

- **Sulfate/Sulfide** – Decreasing concentrations of sulfate indicate sulfate reduction is taking place due to a reducing environment. Decreasing concentrations of sulfate are usually associated with sulfide production (i.e. sulfide is a product of sulfate reduction) and the repeated presence of sulfide in groundwater further confirms that sulfate is being reduced.

- **TOC** – Decreasing trends in TOC over time indicate that microbial metabolism is taking place and TOC is being consumed.

- **Dissolved Arsenic, Iron and Manganese** – Increasing concentrations of arsenic, iron, and/or manganese can be typically associated with a decreasing redox potential. Decreasing concentrations of these metals in association with increasing sulfate concentrations can be associated with an increasing redox potential.

The above analytes and field measurements, were collected within all Building 231/207 Area monitoring wells proposed for sampling during the First and Second Quarters 2006. The following analytical results were detected during the First Quarter 2006 and provide an indication of the groundwater redox state at Building 231/207 as illustrated in Figures A-10-9 through A-10-11.

- Dissolved oxygen concentration measurements during the First Quarter 2006 were generally low (less than 1 mg/L), within the majority of shallow zone groundwater wells and piezometers, with the exception of 231GW09. The only monitoring wells with concentrations of dissolved oxygen measured above 1 mg/L were 231GW09 (shallow) and 231GW11 (shallow). These monitoring wells are located either upgradient or cross-gradient relative to Building 231.

- High nitrate concentrations (over 5 mg/L) were detected within monitoring wells 231GW09, 231GW17, 231GW18 and 231GW27. Nitrate was detected within three shallow, two intermediate and two deep monitoring wells during the First Quarter 2006.

- Nitrite was not detected within any Building 231/207 monitoring wells sampled during the First or Second Quarters 2006 (Table A-10-1).

- Sulfate was detected in the majority of groundwater samples collected from Building 231/207 during the First and Second Quarters 2006. The most significant observation made regarding sulfate concentrations within Building 231/207 Area monitoring wells and piezometers was the lack of sulfate in 231GW13, 231GW21, 231GW22, 231PZ03, and 231PZ04.

- Sulfide was detected in four samples during the First Quarter 2006 at concentrations ranging from 0.06 to 3.4 mg/L (Table A-10-1).

- TOC was detected in all Building 231/207 Area monitoring wells and piezometers sampled during the First Quarter 2006. During the First Quarter 2006, TOC concentrations ranged from 0.74 mg/L in monitoring well 231GW17 to 45 mg/L in piezometers 231PZ01 and 231PZ02.

- ORP was measured in all wells and piezometers during the First Quarter 2006 and within monitoring well 231GW09 during the Second Quarter 2006. During the First Quarter 2006, ORP measurements ranged from -217.7 to 238 millivolts (mV) within piezometer 231PZ02 and monitoring well 207GW03. During the Second Quarter 2006, ORP measured 33.7 mV within monitoring well 231GW09.

In addition to the above evaluation, modified redox diagrams were developed for each Building 231/207 Area monitoring well sampled. The redox diagrams were generated using the Sequence™ program and concentrations of shallow, intermediate and deep zone dissolved oxygen, nitrate, manganese, iron, sulfate and methane and are plotted on Figures A-10-9, A-10-10, and A-10-11, respectively. Each redox diagram consists of multiple axes, with each individual axis representing one of the above analytes. Each redox diagram is associated with one monitoring well location. The relative shape of each redox diagram represents an approximation of the redox state within the well studied. In general, the larger the polygon the more oxidizing the groundwater environment is at the well location, conversely, the smaller the polygon the more reducing the environment. Conceptual redox zone diagrams are illustrated on the aforementioned figures as examples of differing redox environments.

Building 231/207 Area redox diagrams (Figures A-10-9, A-10-10, and A-10-11) illustrate the differing redox environments across the site.

8.0 CONCLUSIONS & RECOMMENDATIONS

All Building 231/207 Area monitoring wells and piezometers were sampled during the First Quarter 2006 and monitoring well 231MW09 was the only monitoring well purged and sampled during the Second Quarter 2006.

The Draft Building 231/207 CAP was submitted to the stakeholders in 2005 for regulatory review. The CAP-specified cleanup levels have been compared to the First and Second Quarter 2006 groundwater data and are posted on Tables A-10-2, A-10-3, A10-5, and A-10-6. TPHg, TPHd, TPHfo, benzene, ethylbenzene, total xylenes, dissolved arsenic, lead and nickel were all detected at concentrations greater than their CAP-specified cleanup levels during the First Quarter 2006. Monitoring wells 231GW09, 231GW10, 231GW13, 231GW21, 231GW22, 231GW25, and piezometers 231PZ01 through 231PZ04 all had at least one detected

concentration of the above contaminants in excess of CAP-specified cleanup levels. Specific contaminant levels and groundwater exceedances are discussed in detail in Section 6.0 above.

Concentrations of TPH and VOCs within Building 231/207 Area monitoring wells continue to fluctuate within historical bounds.

Table 4. Groundwater Cleanup Levels
Corrective Action Plan
Building 207/231 Area
Presidio of San Francisco, California

Chemical [a]	Compilation of Applicable Cleanup Levels [b,c]						**Lowest Applicable Cleanup Levels [e] (µg/L)**
	Human Health Drinking Water Cleanup Level (µg/L)	Basis for Cleanup Level	Freshwater Toxicity Cleanup Level (µg/L)	Basis for Cleanup Level	Saltwater Toxicity Cleanup Level [d] (µg/L)	Basis for Cleanup Level	
Total Petroleum Hydrocarbons (TPH)							
TPH as gasoline	770	FPALDR	443	RWQCB Order	1200	RWQCB Order	**443**
TPH as diesel	880	FPALDR	443	RWQCB Order	2200	RWQCB Order	**443**
TPH as fuel oil	1,200	FPALDR	443	RWQCB Order	2200	RWQCB Order	**443**
TPH Unknown Diesel Hydrocarbon [f]							**443**
TPH Unknown Gasoline Hydrocarbon [g]							**443**
Polynuclear Aromatic Compounds (PAHs)							
Acenaphthene	--	--	1,200	CTR	--	--	**1,200**
Acenaphthylene	--	--	--	--	--	--	**--**
Anthracene	770	FPALDR	9,600	CTR	--	--	**770**
Benzo(a)anthracene	0.1	Proposed MCL	0.0044	CTR	--	--	**0.0044**
Benzo(a)pyrene	0.2	Federal MCL	0.0044	CTR	--	--	**0.0044**
Benzo(b)fluoranthene	0.2	Proposed MCL	0.0044	CTR	--	--	**0.0044**
Benzo(k)fluoranthene	2	FPALDR	0.0044	CTR	--	--	**0.0044**
Benzo(b+k)flouranthene, Total	0.2	Proposed MCL	0.0044	CTR	--	--	**0.0044**
Benzo(g,h,i)perylene	--	--	--	--	--	--	**--**
Chrysene	20	FPALDR	0.0044	CTR	--	--	**0.0044**
Fluoranthene	300	FPALDR	300	CTR	--	--	**300**
Fluorene	300	FPALDR	1,300	CTR	--	--	**300**
Indeno(1,2,3-cd)pyrene	--	--	0.0044	CTR	--	--	**0.0044**
Naphthalene	300	FPALDR	--	--	--	--	**300**
Phenanthrene	230	FPALDR	--	--	--	--	**230**
Pyrene	230	FPALDR	960	CTR	--	--	**230**
Total cPAHs	26	FPALDR	0.031	Basin Plan	0.031	Basin Plan	**0.031**
Metals / Inorganics							
Aluminum	1,000	California MCL	--	--	--	--	**1,000**
Arsenic	10	Federal MCL	150	Basin Plan	36	Basin Plan	**10**
Barium	1,000	California MCL	--	--	--	--	**1,000**
Cadmium	5	Federal MCL	1.1	Basin Plan	9.3	Basin Plan	**1.1**
Calcium	--	--	--	--	--	--	**--**
Chloride	250,000	Secondary MCL	--	--	--	--	**250,000**
Chromium	50	California MCL	180	CTR	50	Basin Plan	**50**
Cobalt	140	ESL - Human health	3.0	ESL - Aquatic life	3.0	ESL - Aquatic life	**3**
Copper	1,000	Secondary MCL	9	Basin Plan	2.9	CTR	**2.9**
Iron	--	--	--	--	--	--	**--**
Lead	15	Federal MCL	2.5	Basin Plan	8.1	Basin Plan	**2.5**
Magnesium	--	--	--	--	--	--	**--**
Manganese	--	--	--	--	--	--	**--**
Nickel	100	California MCL	52	Basin Plan	8.2	CTR	**8.2**
Nitrate	10,000	Federal MCL	--	--	--	--	**10,000**
Potassium	--	--	--	--	--	--	**--**

Table 4. Groundwater Cleanup Levels
Corrective Action Plan
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Presidio of San Francisco, California

Chemical [a]	Compilation of Applicable Cleanup Levels [b,c]						**Lowest Applicable Cleanup Levels [e] (µg/L)**
	Human Health Drinking Water Cleanup Level (µg/L)	Basis for Cleanup Level	Freshwater Toxicity Cleanup Level (µg/L)	Basis for Cleanup Level	Saltwater Toxicity Cleanup Level [d] (µg/L)	Basis for Cleanup Level	
Sodium	--	--	--	--	--	--	**--**
Vanadium	15	ESL - Human health	19	ESL - Aquatic life	19	ESL - Aquatic life	**15**
Zinc	5,000	Secondary MCL	120	Basin Plan	81	Basin Plan	**81**
Volatile Organic Compounds (VOCs)							
1,1,1-Trichloroethane	200	Federal MCL	--	--	--	--	**200**
1,1,2,2-Tetrachloroethane	1	California MCL	420	ESL - Aquatic life	420	ESL - Aquatic life	**1**
1,1,2-Trichloroethane	5	California MCL	4700	ESL - Aquatic life	4700	ESL - Aquatic life	**5**
1,1,-Dichloroethane	5	California MCL	47	ESL - Aquatic life	47	ESL - Aquatic life	**5**
1,2,4-Trimethylbenzene	--	--	--	--	--	--	**--**
1,2-Dichlorobenzene	600	California MCL	14	ESL - Aquatic life	14	ESL - Aquatic life	**14**
1,2-Dichloroethane	0.5	California MCL	0.38	CTR	--	--	**0.38**
1,2-Dichloroethene (cis & trans)	6	California MCL	590	ESL - Aquatic life	590	ESL - Aquatic life	**6**
1,2-Dichloropropane	5	California MCL	1500	ESL - Aquatic life	1500	ESL - Aquatic life	**5**
1,3,5-Trimethylbenzene	--	--	--	--	--	--	**--**
1,3-Dichlorobenzene	6.3	ESL - Human health	65	ESL - Aquatic life	65	ESL - Aquatic life	**6.3**
1,4-Dichlorobenzene	5	California MCL	400	CTR	--	--	**5**
2-Butanone	4,200	ESL - Human health	14,000	ESL - Aquatic life	14,000	ESL - Aquatic life	**4,200**
Acetone	6,300	ESL - Human health	1500	ESL - Aquatic life	1500	ESL - Aquatic life	**1,500**
Benzene	1	California MCL	463	RWQCB Order	510	RWQCB Order	**1**
Bromoform	100	California MCL	3200	ESL - Aquatic life	3200	ESL - Aquatic life	**100**
Carbon dioxide	--	--	--	--	--	--	**--**
Carbon disulfide	--	--	--	--	--	--	**--**
Chlorobenzene	70	California MCL	680	CTR	--	--	**70**
Chloroform	80	Federal MCL	620	ESL - Aquatic life	620	ESL - Aquatic life	**80**
Chloromethane	1.3	ESL - Human health	3200	ESL - Aquatic life	3200	ESL - Aquatic life	**1.3**
cis-1,2-Dichloroethene	6	California MCL	590	ESL - Aquatic life	590	ESL - Aquatic life	**6**
Ethane	--	--	--	--	--	--	**--**
Ethene	--	--	--	--	--	--	**--**
Ethylbenzene	700	Federal MCL	845	RWQCB Order	43	RWQCB Order	**43**
Methane	--	--	--	--	--	--	**--**
Methyl t-butyl ether	13	California MCL	8000	ESL - Aquatic life	4400	RWQCB Order	**13**
Methylene chloride	5	Federal MCL	4.7	CTR	--	--	**4.7**
sec-Butylbenzene	--	--	--	--	--	--	**--**
Styrene	100	California MCL	100	ESL - Aquatic life	100	ESL - Aquatic life	**100**
tert-Butylbenzene	--	--	--	--	--	--	**--**
Tetrachloroethene	5	Federal MCL	0.8	CTR	--	--	**0.8**
Toluene	150	California MCL	490	RWQCB Order	1000	RWQCB Order	**150**
Trichloroethene	5	Federal MCL	2.7	CTR	--	--	**2.7**
Trichlorofluoromethane	150	California MCL	--	--	--	--	**150**
Vinyl chloride	0.5	California MCL	780	ESL - Aquatic life	780	ESL - Aquatic life	**0.5**
Xylenes	1,750	California MCL	318	RWQCB Order	130	RWQCB Order	**130**
Xylenes (m&p-)	1,750	California MCL	318	RWQCB Order	130	RWQCB Order	**130**
Xylenes (o-)	1,750	California MCL	318	RWQCB Order	130	RWQCB Order	**130**

Table 4. Groundwater Cleanup Levels
Corrective Action Plan
Building 207/231 Area
Presidio of San Francisco, California

Chemical [a]	Compilation of Applicable Cleanup Levels [b,c]						Lowest Applicable Cleanup Levels [e] (µg/L)
	Human Health Drinking Water Cleanup Level (µg/L)	Basis for Cleanup Level	Freshwater Toxicity Cleanup Level (µg/L)	Basis for Cleanup Level	Saltwater Toxicity Cleanup Level [d] (µg/L)	Basis for Cleanup Level	
Polychlorinated Biphenyls (PCBs)							
Aroclor 1016	0.5	Federal MCL	0.00017	CTR	0.03	CTR	**0.00017**

Notes:

µg/L	Micrograms per liter.
--	Not available.
MCL	Maximum contaminant level.
CTR	California Toxics Rule.
cPAH	Carcinogenic polycyclic aromatic hydrocarbons.
ESL	Environmental screening level (*RWQCB, 2005*).
FPALDR	Fuel Product Action Level Development Report (*MW, 1995c*).

Note: Shaded and bold values are lowest applicable cleanup values.

[a] Only chemicals detected in groundwater at the Building 207/231 Area are listed.

[b] For chemicals for which Presidio-specific cleanup levels have been developed, the cleanup levels were compiled from the Presidio-Wide Cleanup Level Document (*EKI, 2002*). For human health, these cleanup levels consist of MCLs or risk-based values developed in the FPALDR (*MW, 1995c*). For freshwater or saltwater toxicity, these cleanup levels consist of Basin Plan values (updated with *RWQCB, 2004*: freshwater Table 3-4 and saltwater Table 3-3 from the 4-day average), CTR values, or RWQCB Order values (updated with RWQCB Order R2-2003-0080 [*RWQCB, 2003*]: freshwater Table 7 and saltwater Table 6).

[c] For chemicals for which Presidio-specific cleanup levels have not been developed, the cleanup levels were compiled from ESLs for human health and for freshwater and saltwater toxicity for protection of aquatic life from *RWQCB, 2005* Table F-1a.

[d] Values apply to marine or saltwater environments. See footnote b for source information.

[e] Cleanup levels are lowest of Human Health, Freshwater, and Saltwater Toxicity values.

[f] TPH as diesel cleanup level value used.

[g] TPH as gasoline cleanup level value used.

Checked: JM
Approved: MAY

Table A-10-1
Results of General Chemistry Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
207GW03 (intermediate)	03/16/06	460	460	150	0.29	< 0.05	< 0.05	1.7	3.4 J-	-181.2	7.8	16.1
	04/12/05	390	390	120	0.29	< 0.05	< 0.05	2.7	2.5	NR	NR	NR
	01/11/99	411	411	150	NA	< 2	NA	< 25	NA	NR	NR	NR
	10/12/98	432	432	160	NA	< 0.2	NA	2.66	NA	NR	NR	NR
	07/09/98	450	450	184 D	NA	0.017	NA	4.03	NA	NR	NR	NR
	05/04/98	420	420	159 D	NA	0.063	NA	9.38	NA	NR	NR	NR
	01/29/97	235	235	56.1 D	NA	2.5 D	NA	62.3 D	NA	NR	NR	NR
231GW06 (intermediate)	03/15/06	220	220	50	< 0.1	< 0.05	< 0.05	47	< 0.04	236	6.7	18
	04/04/05	290	290	57	< 0.1	0.1	< 0.05	76	< 0.04 UJ	NR	NR	NR
	01/20/99	260	260	95	NA	3.39	NA	74	NA	NR	NR	NR
	10/20/98	256	256	81.1	NA	3.1	NA	72	NA	NR	NR	NR
	07/21/98	240	240	64.1 D	NA	3.17 D	NA	67.5 D	NA	NR	NR	NR
	04/23/98	240	240	62.6 D	NA	2.72 D	NA	62.2 D	NA	NR	NR	NR
	01/27/98	236	236	67.2 D	NA	3.67 D	NA	69.9 D	NA	NR	NR	NR
	10/22/97	227	227	66.9 D	NA	3.62	NA	70.4 D	NA	NR	NR	NR
	07/23/97	239	239	62.3 D	NA	3.69 D	NA	67.3 D	NA	NR	NR	NR
	04/23/97	238	238	63.6 D	NA	3.09 D	NA	67.1 D	NA	NR	NR	NR
	01/28/97	197	197	53.9 D	NA	22.5 D	NA	67 D	NA	NR	NR	NR
231GW09	05/24/06	230	230	41	< 0.1	11	< 0.05	68	< 0.04 R	33.7 NM	6.5	16.5
	03/15/06	110	110	22	< 0.1	4.6	< 0.05	35	< 0.04	204	6.22	16.2
	11/29/05	220 J+	220	48	< 0.1	6.6	< 0.05	75	< 0.04	NR	NR	NR
DUP1129052A	11/29/05	210 J+	210	48	< 0.1	6.7	< 0.05	76	< 0.04	NR	NR	NR
	08/31/05	220	220	48	< 0.1 UJ	5.5	< 0.05 UJ	75	< 0.04	NR	NR	NR
	06/01/05	210	210	48	0.11	5.5	< 0.05	77	0.04	NR	NR	NR
	04/04/05	180	180	51	< 0.1	5.5	< 0.05	79	0.11 J-	NR	NR	NR
(shallow)	12/17/04	120	120	52	< 0.1	5.8	< 0.05	81	NA	NR	NR	NR
DUP1217042A	12/17/04	190	190	51	< 0.1	5.6	< 0.05	79	NA	NR	NR	NR
	08/12/04	250	250	50	< 0.1	5.8	< 0.05	77	NA	NR	NR	NR
	05/27/04	310	310	51	< 0.1	6	< 0.05	81	NA	NR	NR	NR
DUP0527042C	05/27/04	250	250	51	< 0.1	5.7	< 0.05	80	NA	NR	NR	NR
231GW09CL	05/27/04	210	210	52 D	0.11	7.1 D	< 0.05	83 D	NA	NR	NR	NR
	03/18/04	210	210	56	< 0.1	6.5	< 0.05	85	NA	NR	NR	NR
	12/04/03	220	220	53	< 0.1	6.9	< 0.05	81	NA	NR	NR	NR
	08/15/03	190	190	51	< 0.1	7.7 b,J-	< 0.05 UJ	91	NA	NR	NR	NR
	06/10/03	250	250	57	< 0.1	9.1	< 0.05	88	NA	NR	NR	NR
	01/13/99	183	183	55.8	NA	33.6	NA	69	NA	NR	NR	NR

Table A-10-1
Results of General Chemistry Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
231GW09 (shallow)	10/14/98	181	181	49	NA	28.2	NA	65	NA	NR	NR	NR
	07/15/98	210	210	49.9 D	NA	32.2 D	NA	68.6 D	NA	NR	NR	NR
	04/20/98	250	250	75.1 D	NA	45.6 D	NA	92.8 D	NA	NR	NR	NR
	01/28/98	190	190	62.4 D	NA	22.3 D	NA	73.8 D	NA	NR	NR	NR
	10/23/97	< 165	< 165	47.5 D	NA	24.5 D	NA	67.4 D	NA	NR	NR	NR
	07/24/97	172	172	42.4 D	NA	29.1 D	NA	75.9 D	NA	NR	NR	NR
	04/22/97	195	195	49.8 D	NA	29.8 D	NA	69.2 D	NA	NR	NR	NR
	01/28/97	197	197	53.9 D	NA	22.5 D	NA	67 D	NA	NR	NR	NR
231GW10 (shallow)	03/09/06	820	820	45	0.37	< 0.05	< 0.05	3.5	< 0.04 UJ	-130.7	5.46	15.78
	03/22/05	680	680	48	0.35	< 0.05	< 0.05	12	< 0.04	NR	NR	NR
	01/25/99	391	391	31.3	NA	< 0.2	NA	60.6	NA	NR	NR	NR
	10/19/98	683	683	67	NA	0.15	NA	0.751	NA	NR	NR	NR
	07/22/98	674	674	55.6 D	NA	0.018	NA	0.327	NA	NR	NR	NR
	04/23/98	648	648	52.6 D	NA	0.012	NA	14.1 D	NA	NR	NR	NR
	01/28/98	624	624	53 D	NA	0.011	NA	8.9	NA	NR	NR	NR
	10/22/97	663	663	62.1 D	NA	< 0.01	NA	< 0.387	NA	NR	NR	NR
	07/23/97	677	677	60.8 D	NA	0.041	NA	0.291	NA	NR	NR	NR
	04/23/97	676	676	63.5 D	NA	0.019	NA	0.158	NA	NR	NR	NR
	01/28/97	448	448	61.5 D	NA	< 0.01	NA	1.22	NA	NR	NR	NR
231GW11 (shallow)	03/15/06	420	420	53	0.15	< 0.05	< 0.05	4.8	< 0.04	-7.7	7.37	15.2
	04/05/05	410	410	50	0.15	< 0.05	< 0.05	7.3	0.3	NR	NR	NR
	01/11/99	439	439	70	NA	< 0.8	NA	10.3	NA	NR	NR	NR
	10/12/98	395	395	56.5	NA	< 0.04	NA	10.9	NA	NR	NR	NR
	07/13/98	380	380	48.8 D	NA	0.022	NA	5.01	NA	NR	NR	NR
	04/21/98	400	400	50.6 D	NA	0.037	NA	6.01	NA	NR	NR	NR
	01/26/98	416	416	53.8 D	NA	0.019	NA	4	NA	NR	NR	NR
	10/21/97	446	446	59.6 D	NA	0.017	NA	2.14	NA	NR	NR	NR
	07/21/97	431	431	55 D	NA	0.013	NA	4.44	NA	NR	NR	NR
	04/21/97	443	443	60.3 D	NA	< 0.01	NA	2.08	NA	NR	NR	NR
	04/10/95	466	461	72.1	NA	< 0.2	NA	< 5	NA	NR	NR	NR

Table A-10-1
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Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
231GW13 (deep)	03/14/06	420	420	160	0.51	0.07	< 0.05	< 0.5	< 0.04	221	7.52	16.4
	04/05/05	410	410	150	0.45	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
	01/14/99	434	434	180	NA	< 2	NA	< 25	NA	NR	NR	NR
	10/15/98	429	429	184	NA	< 0.08	NA	< 1	NA	NR	NR	NR
	07/16/98	432	432	157 D	NA	0.791	NA	0.361	NA	NR	NR	NR
	04/21/98	416	416	145 D	NA	0.043	NA	0.485	NA	NR	NR	NR
	01/26/98	400	400	133 D	NA	0.029	NA	0.242	NA	NR	NR	NR
	10/20/97	415	415	157 D	NA	0.163	NA	0.358	NA	NR	NR	NR
	07/21/97	423	423	150 D	NA	0.912	NA	0.505	NA	NR	NR	NR
	04/21/97	432	432	162 D	NA	0.067	NA	0.304	NA	NR	NR	NR
	01/27/97	430	430	160 D	NA	0.04	NA	0.44	NA	NR	NR	NR
	04/07/95	272	269	58.8	NA	< 0.2	NA	9.98	NA	NR	NR	NR
231GW15 (intermediate)	03/14/06	300	300	57	0.11	< 0.05	< 0.05	28	< 0.04	-125	7.54	13.4
	04/05/05	320	320	59	< 0.1	< 0.05	< 0.05	37	< 0.04	NR	NR	NR
	01/14/99	281	281	83.8	NA	< 0.5	NA	20	NA	NR	NR	NR
	10/15/98	254	254	79	NA	0.23	NA	12.7	NA	NR	NR	NR
	07/16/98	< 256	< 256	68.8 D	NA	0.25	NA	11.2	NA	NR	NR	NR
	04/21/98	276	276	59.9 D	NA	< 0.028	NA	4.79	NA	NR	NR	NR
	01/26/98	276	276	64.8 D	NA	0.057	NA	11.6	NA	NR	NR	NR
	10/20/97	255	255	74.3 D	NA	0.33	NA	15.2 D	NA	NR	NR	NR
	07/21/97	271	271	66.7 D	NA	0.014	NA	20.5 D	NA	NR	NR	NR
	04/21/97	279	279	70.4 D	NA	0.021	NA	16.6 D	NA	NR	NR	NR
	01/30/97	425	425	153 D	NA	< 0.01	NA	46.8 D	NA	NR	NR	NR
	01/27/97	265	265	65.7 D	NA	0.1	NA	9.9	NA	NR	NR	NR
231GW16 (shallow)	03/09/06	480	480	230	0.45	< 0.05	< 0.05	36	0.07 J-	-15.9	5.95	13.72
	03/22/05	430	430	150	0.32	< 0.05	< 0.05	16	0.19	NR	NR	NR
	01/14/99	516	516	400	NA	< 4	NA	< 50	NA	NR	NR	NR
	10/15/98	449	449	272	NA	< 0.16	NA	< 2	NA	NR	NR	NR
	07/16/98	374	374	407 D	NA	< 0.01	NA	42.4 D	NA	NR	NR	NR
	04/21/98	422	422	188 D	NA	< 0.01	NA	29 D	NA	NR	NR	NR
	01/26/98	406	406	214 D	NA	0.016	NA	13.5	NA	NR	NR	NR
	10/20/97	432	432	566 D	NA	0.069	NA	30.2 D	NA	NR	NR	NR
	07/21/97	432	432	580 D	NA	< 0.01	NA	70.6 D	NA	NR	NR	NR
	04/24/97	474	474	297 D	NA	< 0.01	NA	39.9 D	NA	NR	NR	NR
	04/10/95	190	189	30.5	NA	6.83	NA	38.5	NA	NR	NR	NR

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Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
231GW17 (deep)	03/15/06	250	250	30	< 0.1	8.6	< 0.05	41	< 0.04	186.3	6.88	18.1
	04/05/05	220	220	31	< 0.1	9.2	< 0.05	42	< 0.04	NR	NR	NR
	01/13/99	207	207	45.8	NA	8.79	NA	44	NA	NR	NR	NR
	10/14/98	195	195	37	NA	7.2	NA	37	NA	NR	NR	NR
	07/15/98	202	202	38.7 D	NA	7.92 D	NA	38.7 D	NA	NR	NR	NR
	04/20/98	194	194	33.6 D	NA	6.88 D	NA	34.2 D	NA	NR	NR	NR
	01/27/98	184	184	35.5 D	NA	7.97 D	NA	39.2 D	NA	NR	NR	NR
	10/21/97	181	181	42.7 D	NA	7.48 D	NA	39.8 D	NA	NR	NR	NR
	07/22/97	187	187	32.4 D	NA	7.45 D	NA	35.4 D	NA	NR	NR	NR
	04/22/97	200	200	38 D	NA	7.36 D	NA	34.6 D	NA	NR	NR	NR
	01/28/97	187	187	37.9 D	NA	7.2 D	NA	37.6 D	NA	NR	NR	NR
	04/10/95	232	23.1	50.2	NA	6.91	NA	58.9	NA	NR	NR	NR
231GW18 (intermediate)	03/15/06	270	270	57	< 0.1	5.4	< 0.05	73	< 0.04	222	6.81	18.6
	04/05/05	240	240	49	< 0.1	6.4	< 0.05	58	< 0.04	NR	NR	NR
	01/13/99	242	242	69	NA	7.4	NA	66	NA	NR	NR	NR
	10/14/98	230	230	76	NA	8.3	NA	75	NA	NR	NR	NR
	07/15/98	224	224	60.2 D	NA	7.01 D	NA	65.2 D	NA	NR	NR	NR
	04/20/98	230	230	60.8 D	NA	7.13 D	NA	59.5 D	NA	NR	NR	NR
	01/27/98	226	226	57 D	NA	7.66 D	NA	68.8 D	NA	NR	NR	NR
	10/21/97	219	219	62.4 D	NA	7.31 D	NA	61.4 D	NA	NR	NR	NR
	07/22/97	276	276	56.7 D	NA	7.71 D	NA	62.1 D	NA	NR	NR	NR
	04/22/97	240	240	61.8 D	NA	7.56 D	NA	60.7 D	NA	NR	NR	NR
	01/28/97	225	225	61 D	NA	7 D	NA	61.1 D	NA	NR	NR	NR
	04/10/95	478	477	32.4	NA	0.357	NA	41.6	NA	NR	NR	NR
231GW19 (shallow)	03/16/06	270	270	32	0.17	< 0.05	< 0.05	38	0.06 J-	-116.7	7.01	16.4
	04/05/05	190	190	28	0.17	< 0.05	< 0.05	10	< 0.04	NR	NR	NR
	01/13/99	340	340	73	NA	0.12	NA	21	NA	NR	NR	NR
	10/14/98	234	234	59.8	NA	< 0.4	NA	27	NA	NR	NR	NR
	07/15/98	306	306	47.1 D	NA	0.071	NA	39.9 D	NA	NR	NR	NR
	04/20/98	320	320	52.5 D	NA	0.051	NA	65.8 D	NA	NR	NR	NR
	01/27/98	334	334	52.5 D	NA	0.011	NA	3.22	NA	NR	NR	NR
	10/20/97	294	294	54.6 D	NA	0.011	NA	41.2 D	NA	NR	NR	NR
	07/22/97	254	254	41.1 D	NA	< 0.01	NA	43.8 D	NA	NR	NR	NR
	04/21/97	329	329	45.7 D	NA	0.046	NA	30.6 D	NA	NR	NR	NR
	01/27/97	245	245	36.3 D	NA	< 0.01	NA	7.48	NA	NR	NR	NR
	04/11/95	224	223	53.4	NA	1.56	NA	22.9	NA	NR	NR	NR

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Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
231GW20 (deep)	03/15/06	78	78	16	< 0.1	0.6	< 0.05	9.6	< 0.04	91.7	7.24	17.6
	04/06/05	140	140	39	< 0.1	0.91	< 0.05	12	< 0.04 UJ	NR	NR	NR
	01/20/99	222	222	67	NA	2.1	NA	23.6	NA	NR	NR	NR
	10/20/98	218	218	66.5	NA	1.9	NA	22	NA	NR	NR	NR
	07/21/98	216	216	57.4 D	NA	2.13 D	NA	25.4 D	NA	NR	NR	NR
	04/23/98	216	216	53.9 D	NA	2.25 D	NA	23.6 D	NA	NR	NR	NR
	01/29/98	208	208	57.6 D	NA	2.29 D	NA	25.5 D	NA	NR	NR	NR
	10/22/97	212	212	56.8 D	NA	2.25	NA	26.7 D	NA	NR	NR	NR
	07/23/97	232	232	57.2 D	NA	2.34 D	NA	25.5 D	NA	NR	NR	NR
	04/23/97	215	215	57.4 D	NA	2.08 D	NA	24.1 D	NA	NR	NR	NR
	01/29/97	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	NR
	04/12/95	58.8	584	49.5	NA	< 0.2	NA	7.13	NA	NR	NR	NR
231GW21 (shallow)	03/08/06	450	450	32	0.2	< 0.05	< 0.05	< 0.5	< 0.04	-62.5	6.56	17.9
	03/31/05	500	500	41	0.25	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
DUP0308061A	03/08/06	470	470	34	0.2	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
231GW21CL	03/08/06	456	456	33.6	< 1 U	< 0.02 U	< 0.02 U	< 1 U	< 0.05 U UJ	NR	NR	NR
DUP0331052D	03/31/05	440	440	33	0.23	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
231GW21CL	03/31/05	516	516	39.7	0.39	< 0.1 U	< 0.02 U	< 1 U	< 0.04 U	NR	NR	NR
	01/20/99	650	650	65	NA	0.38	NA	< 1	NA	NR	NR	NR
	10/20/98	671	671	53.7	NA	0.42	NA	< 0.5	NA	NR	NR	NR
	07/23/98	722	722	49.9 D	NA	0.011	NA	0.17	NA	NR	NR	NR
	05/01/98	714	714	48.6 D	NA	0.014	NA	0.261	NA	NR	NR	NR
	01/28/98	708	708	52.6 D	NA	0.02	NA	0.12	NA	NR	NR	NR
	10/27/97	595	595	58.4 D	NA	0.012	NA	0.512	NA	NR	NR	NR
	07/24/97	713	713	51 D	NA	< 0.05 DU	NA	< 0.5 DU	NA	NR	NR	NR
	04/28/97	676	676	281 D	NA	0.153	NA	34.2 D	NA	NR	NR	NR
	04/24/97	695	695	53.2 D	NA	< 0.01	NA	< 0.1	NA	NR	NR	NR
	01/30/97	686	686	53.9 D	NA	0.02	NA	1.46	NA	NR	NR	NR
231GW22 (shallow)	03/09/06	740	740	57	0.26	< 0.05	< 0.05	< 0.5	< 0.04 UJ	-92	6.77	17.6
DUP0309061A	03/09/06	760	760	57	0.26	< 0.05	< 0.05	< 0.5	< 0.04 UJ	NR	NR	NR
	03/23/05	680	680	58	0.24	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
DUP0323052A	03/23/05	700	700	58	0.24	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
	01/21/99	741	741	88	NA	0.54	NA	3	NA	NR	NR	NR
	10/21/98	705	705	101	NA	0.053	NA	1.5	NA	NR	NR	NR

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Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
231GW22 (shallow)	07/22/98	672	672	73 D	NA	0.021	NA	0.242	NA	NR	NR	NR
	04/27/98	692	692	79 D	NA	0.07	NA	0.252	NA	NR	NR	NR
	01/29/98	650	650	84.8 D	NA	0.051	NA	0.269	NA	NR	NR	NR
	10/28/97	645	645	98.1 D	NA	0.037	NA	0.536	NA	NR	NR	NR
	07/28/97	692	692	141 D	NA	0.075	NA	0.356	NA	NR	NR	NR
	04/29/97	456	456	60.6 D	NA	0.019	NA	0.681	NA	NR	NR	NR
231GW23 (shallow)	03/15/06	410	410	47	0.31	0.1	< 0.05	11	< 0.04	-134.7	6.84	12.5
	04/05/05	510	510	55	0.34	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
	01/20/99	436	436	68	NA	0.11	NA	1	NA	NR	NR	NR
	10/22/98	447	447	59.1	NA	0.68	NA	9.5	NA	NR	NR	NR
	07/23/98	454	454	55.8 D	NA	< 0.013	NA	< 1.27	NA	NR	NR	NR
	04/28/98	422	422	52.8 D	NA	< 0.02	NA	< 0.536	NA	NR	NR	NR
	02/02/98	418	418	60.3 D	NA	< 0.01	NA	6.1	NA	NR	NR	NR
	10/23/97	445	445	56.5 D	NA	< 0.011	NA	< 0.561	NA	NR	NR	NR
	07/29/97	439	439	56.9 D	NA	< 0.01	NA	0.231	NA	NR	NR	NR
	04/30/97	299	299	33.9 D	NA	0.295	NA	19.6 D	NA	NR	NR	NR
231GW24 (shallow)	03/16/06	330	330	30	< 0.1	0.06	< 0.05	40	< 0.04 R	-57.5	7.3	13.1
	04/05/05	220	220	26	< 0.1	0.21	< 0.05	30	< 0.04	NR	NR	NR
	01/20/99	298	298	55.9	NA	< 0.04	NA	22	NA	NR	NR	NR
	10/19/98	245	245	43.7	NA	< 0.04	NA	25	NA	NR	NR	NR
	07/20/98	248	248	39.2 D	NA	0.016	NA	33.2 D	NA	NR	NR	NR
	04/22/98	286	286	51.8 D	NA	0.174 D	NA	30.2 D	NA	NR	NR	NR
	02/03/98	252	252	44 D	NA	2.11 D	NA	37.3 D	NA	NR	NR	NR
	10/29/97	274	274	39.6 D	NA	0.014	NA	16.8 D	NA	NR	NR	NR
	07/30/97	242	242	36.2 D	NA	0.026	NA	25.6 D	NA	NR	NR	NR
	04/30/97	520	520	91.1 D	NA	0.017	NA	27.2 D	NA	NR	NR	NR
231GW25 (shallow)	03/15/06	800	800	48	0.42	< 0.05	< 0.05	0.8	< 0.04	70.3	6.94	12.2
	04/06/05	690	690	50	0.46	< 0.05	< 0.05	2.4	< 0.04 UJ	NR	NR	NR
	01/21/99	700	700	73	NA	0.26	NA	5.4	NA	NR	NR	NR
	10/19/98	699	699	71	NA	0.22	NA	1.7	NA	NR	NR	NR
	07/20/98	794	794	64.8 D	NA	< 0.01	NA	< 1.12	NA	NR	NR	NR
	04/22/98	644	644	63.2 D	NA	< 0.031	NA	4.49	NA	NR	NR	NR
	02/03/98	678	678	69.2 D	NA	< 0.01	NA	30 D	NA	NR	NR	NR
	10/29/97	550	550	64.5 D	NA	< 0.01	NA	10.5	NA	NR	NR	NR
	07/30/97	490	490	64.8 D	NA	0.034	NA	15.8 D	NA	NR	NR	NR
	04/28/97	246	246	73.7 D	NA	3.63 D	NA	73.1 D	NA	NR	NR	NR

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Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
231GW26 (intermediate)	03/16/06	290	290	44	< 0.1	3.2	< 0.05	63	< 0.04 R	68.7	6.99	18.9
	04/06/05	260	260	63	< 0.1	2.2	< 0.05	73	< 0.04 UJ	NR	NR	NR
	01/21/99	242	242	94	NA	4.1	NA	85	NA	NR	NR	NR
	10/21/98	248	248	101	NA	3.4	NA	89	NA	NR	NR	NR
	07/22/98	242	242	70.2 D	NA	4.36 D	NA	71.5 D	NA	NR	NR	NR
	04/27/98	246	246	73 D	NA	4.07 D	NA	72.6 D	NA	NR	NR	NR
	01/29/98	222	222	64.6 D	NA	4.39 D	NA	62.5 D	NA	NR	NR	NR
	10/28/97	226	226	66.5 D	NA	4.09 D	NA	68.5 D	NA	NR	NR	NR
	07/28/97	248	248	75.6 D	NA	4.53 D	NA	75.2 D	NA	NR	NR	NR
	04/28/97	223	223	67.7 D	NA	6.39 D	NA	53.9 D	NA	NR	NR	NR
231GW27 (intermediate)	03/15/06	230	230	59	< 0.1	5.6	< 0.05	70	< 0.04	106.5	6.81	16.8
	04/06/05	270	270	60	< 0.1	5.5	< 0.05	68	< 0.04 UJ	NR	NR	NR
	01/21/99	48	48	< 9.62	NA	0.64	NA	< 7.6	NA	NR	NR	NR
	10/21/98	219	219	67.8	NA	6	NA	57	NA	NR	NR	NR
	07/22/98	200	200	52.1 D	NA	5.54 D	NA	54.4 D	NA	NR	NR	NR
	04/27/98	220	220	57.3 D	NA	6.54 D	NA	54.2 D	NA	NR	NR	NR
	01/29/98	176	176	41.4 D	NA	6.38 D	NA	49.7 D	NA	NR	NR	NR
	10/28/97	197	197	50.5 D	NA	6.47 D	NA	54.3 D	NA	NR	NR	NR
	07/28/97	222	222	55.8 D	NA	7.69 D	NA	57 D	NA	NR	NR	NR
	04/29/97	255	255	27.8 D	NA	4.4 D	NA	42.6 D	NA	NR	NR	NR
231GW28 (intermediate)	03/15/06	320	320	15	0.27	< 0.05	< 0.05	1.9	< 0.04	83.7	6.9	14.2
	04/06/05	320	320	18	0.27	0.46	< 0.05	13	0.05 J-	NR	NR	NR
	01/11/99	211	211	31	NA	4.2	NA	57	NA	NR	NR	NR
	10/22/98	212	212	32	NA	6.1	NA	76	NA	NR	NR	NR
	07/23/98	220	220	36.4 D	NA	6.32 D	NA	69.7 D	NA	NR	NR	NR
	04/28/98	178	178	32.4 D	NA	4.36 D	NA	48.5 D	NA	NR	NR	NR
	02/02/98	174	174	26.1 D	NA	5.5 D	NA	64.8 D	NA	NR	NR	NR
	10/27/97	170	170	30.7 D	NA	7.89 D	NA	67.4 D	NA	NR	NR	NR
	07/29/97	196	196	33.2 D	NA	6.8 D	NA	65.1 D	NA	NR	NR	NR
	04/29/97	267	267	51.8 D	NA	2.62 D	NA	60.3 D	NA	NR	NR	NR
231GW29 (intermediate)	03/16/06	300	300	53	< 0.1	1	< 0.05	69	< 0.04 R	-49	7.35	16.7
	04/06/05	280	280	54	< 0.1	2.5	< 0.05	66	< 0.04 UJ	NR	NR	NR
	01/21/99	274	274	68	NA	2.7	NA	80	NA	NR	NR	NR
	10/22/98	272	272	59.8	NA	2.6	NA	72	NA	NR	NR	NR
	07/23/98	270	270	53.8 D	NA	3.95 D	NA	64 D	NA	NR	NR	NR

Table A-10-1
Results of General Chemistry Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
231GW29 (intermediate)	04/28/98	258	258	54.2 D	NA	3.72 D	NA	58.8 D	NA	NR	NR	NR
	02/02/98	260	260	54.8 D	NA	3.38 D	NA	66.1 D	NA	NR	NR	NR
	10/27/97	234	234	53.4 D	NA	4.89 D	NA	62.3 D	NA	NR	NR	NR
	07/29/97	247	247	52.6 D	NA	4.17 D	NA	58 D	NA	NR	NR	NR
	04/30/97	823	823	86.2 D	NA	0.018	NA	20.4 D	NA	NR	NR	NR
231GW30 (shallow)	03/09/06	480	480	42	0.39	0.13	< 0.05	17	< 0.04 UJ	-59.7	7.09	15.1
	03/22/05	440	440	33	0.35	0.16	< 0.05	27	< 0.04	NR	NR	NR
	01/19/99	802	802	64	NA	0.25	NA	13	NA	NR	NR	NR
	10/19/98	809	809	66.1	NA	0.09	NA	3.8	NA	NR	NR	NR
	07/20/98	800	800	55.9 D	NA	0.013	NA	3.62	NA	NR	NR	NR
	04/22/98	748	748	60.3 D	NA	0.054	NA	16.7 D	NA	NR	NR	NR
	02/03/98	656	656	54.4 D	NA	1.04 D	NA	131 D	NA	NR	NR	NR
	02/03/98	588	588	80.6 D	NA	0.034	NA	0.464	NA	NR	NR	NR
	10/29/97	857	857	66.2 D	NA	0.03	NA	2.16	NA	NR	NR	NR
	07/30/97	846	846	67.4 D	NA	0.015	NA	3.97	NA	NR	NR	NR
231PZ01 (shallow)	03/14/06	760	760	48	0.24	< 0.05	< 0.05	0.78	< 0.04	-92.9	16.73	17.22
	04/04/05	840	840	81	0.31	< 0.05	< 0.05	< 0.5	< 0.04 UJ	NR	NR	NR
	07/14/98	730	730	81.5 D	NA	0.216	NA	0.495	NA	NR	NR	NR
	04/30/98	728	728	87.1 D	NA	0.134	NA	0.201	NA	NR	NR	NR
	02/03/98	660	660	118 D	NA	< 0.01	NA	52.7 D	NA	NR	NR	NR
231PZ02 (shallow)	03/10/06	890	890	95	0.3	< 0.05	< 0.05	1.6	0.07 J-	-217.7	8.75	15.44
	04/04/05	760	760	72	0.3	< 0.05	< 0.05	4.6	0.11 J-	NR	NR	NR
	07/14/98	600	600	232 D	NA	0.029	NA	17.7 D	NA	NR	NR	NR
	04/30/98	494	494	153 D	NA	0.027	NA	27.9 D	NA	NR	NR	NR
	02/03/98	456	456	31.2 D	NA	< 0.01	NA	20.6 D	NA	NR	NR	NR
231PZ03 (shallow)	03/14/06	520	520	32	0.21	< 0.05	< 0.05	< 0.5	< 0.04	-124.9	6.91	18.19
	04/04/05	490	490	38	0.21	< 0.05	< 0.05	< 0.5	0.08 J-	NR	NR	NR
	01/12/99	466	466	74	NA	< 1	NA	17.7	NA	NR	NR	NR
	10/13/98	465	465	66	NA	< 0.04	NA	6.84	NA	NR	NR	NR
	07/14/98	530	530	38.7 D	NA	< 0.01	NA	3.16	NA	NR	NR	NR
	04/30/98	570	570	34.3 D	NA	< 0.01	NA	3.71	NA	NR	NR	NR
	02/04/98	732	732	15.3 D	NA	< 0.01	NA	3.21	NA	NR	NR	NR

Table A-10-1
Results of General Chemistry Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	Field	Field	Field
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mV)	pH units	C°
231PZ04 (shallow)	03/14/06	570	570	29	0.24	< 0.05	< 0.05	< 0.5	< 0.04	-110.1	6.92	17.6
	04/04/05	550	550	32	0.24	< 0.05	< 0.05	< 0.5	0.06 J-	NR	NR	NR
	01/11/99	488	488	80.2	NA	< 0.5	NA	7.32	NA	NR	NR	NR
	10/12/98	477	477	59	NA	< 0.2	NA	8	NA	NR	NR	NR
	07/13/98	570	570	36.7 D	NA	0.019	NA	4.74	NA	NR	NR	NR
	04/30/98	582	582	34.1 D	NA	0.017	NA	4.06	NA	NR	NR	NR

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
mg/L - milligrams per liter
°C - degree centigrade
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
mV - millivolts
NR - Not Reported
ORP - oxidation Reduction Potential
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-10-2
Summary of Dissolved Oxygen Measurements and Results of TPH Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	Field	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**443**	**443**	**443**
207GW03 (intermediate)	03/16/06	0.16	< 50	55 HY	< 300
	04/12/05	0.2	< 50	< 50	< 300
	03/19/04	0.4	< 50	< 50	< 300
	08/21/03	0.4	< 50	< 50	< 300
	03/19/03	2.7	< 50	< 50	< 300
	12/10/02	0.5	< 50	< 50	< 300
	09/03/02	0.4	< 50	< 50	< 300
	06/03/02	0.9	< 50	< 50	< 300
	03/11/02	1.64	< 50	< 50	< 300
	11/30/01	0.8	< 50	< 50	< 300
	08/30/01	2.4	< 50	73 [3] Y,NJ	< 300 [3]
	05/14/01	3.7	< 50	< 50	< 300
	04/13/99	0.34	< 50	63 (J25, J9)	< 300
	01/11/99	0.09	< 50	< 50	< 300
	10/12/98	0.62	< 50	< 50	< 300
	07/09/98	0.54	< 50	59 (J25)	< 300
	05/04/98	0.46	< 50	130 (J25)	< 300
	03/05/98	0.38	< 50	< 50	< 300
231GW06 (intermediate)	03/15/06	0.69	< 50	< 50	< 300
	04/04/05	0.1	< 50	< 50	< 300
	03/18/04	1.12	< 50	< 50	< 300
	08/14/03	0.2	< 50	66 Y	< 300
	03/17/03	0.4	< 50	< 50	< 300
	12/04/02	1.2	< 50	< 50	< 300
	09/03/02	0.3	< 50	< 50	< 300
	05/30/02	1.1	< 50	< 50	< 300
	03/05/02	0.8	< 50	55 Y	< 300
	11/29/01	3.5	< 50	< 50	370
	08/30/01	1.8	< 50	64 [3] Y,NJ	< 300 [3]
	05/09/01	3.1	< 50	< 50	< 300
	04/20/99	0.28	< 50	< 50	< 300
	01/20/99	0.18	< 50	< 50 (J25)	< 300
	10/20/98	0.79	< 50	< 50	< 300
	07/21/98	0.82	< 50	< 50	< 300
	04/23/98	0.73	< 50	< 50	< 300
	01/27/98	0.23	< 50	< 50	< 300
	10/22/97	0.49	< 50	< 50	< 300
	07/23/97	0.29	< 50	< 50	< 300
	04/23/97	0.29	< 50	< 50	< 300
	01/29/97	0.26	< 50	< 50	< 300
	10/10/96	NM	< 50	< 50	< 300
	07/15/96	NM	150 (J25)	< 50	< 300
	05/02/96	NM	< 50	< 50	< 300 (U12)
	02/07/96	NM	< 50	< 50	< 300
	11/09/95	NM	< 50	56 (J25)	< 300
	08/10/95	NM	< 50	120 (J25)	< 300
	04/17/95	NM	< 50	200 (J25)	NA
	01/25/95	NM	< 50	< 50	NA
	11/09/94	NM	< 50	**660 (J25)**	NA
	08/16/94	NM	< 50	66 (J25)	NA

Table A-10-2
Summary of Dissolved Oxygen Measurements and Results of TPH Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	Field	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**443**	**443**	**443**
231GW06 (intermediate)	04/25/94	NM	< 50	190 (J25)	NA
	01/28/94	NM	< 50	< 50	NA
	10/25/93	NM	< 50	< 50	NA
	07/27/93	NM	< 50	< 50	NA
231GW09	05/24/06	2.64	< 50	< 50	< 300
	03/15/06	2.41	< 50	< 50	< 300
(shallow)	11/29/05	0.3	< 50	< 50	< 300
DUP1129052A	11/29/05	NA	< 50	< 50	< 300
	08/31/05	0.7	< 50	< 50	< 300
	06/01/05	1.9	< 50	< 50	< 300
	04/04/05	2.1	< 50	< 50	< 300
	12/17/04	0.9	< 50	< 50	< 300
DUP1217042A	12/17/04	--	< 50	< 50	< 300
	08/12/04	0.82	< 50	< 50	< 300
	05/27/04	0.49	< 50	170 HY	< 300
DUP0527042C	05/27/04	--	< 50	< 50	< 300
231GW09CL	05/27/04	--	< 50	< 66	< 330
	03/18/04	0.7	< 50	< 50	< 300
	12/04/03	1.6	NA	NA	NA
	08/15/03	1.7	< 50	< 50	< 300
	06/10/03	2.1	NA	NA	NA
	03/17/03	5	< 50	< 50	< 300
	12/04/02	1.9	< 50	< 50	< 300
	08/30/02	4.4	< 50	< 50	< 300
	05/30/02	2.8	< 50	170 Y	**610**
	03/07/02	2.2	< 50	< 50 UJ	< 300 UJ
	11/29/01	2.5	< 50	< 50	< 300
	08/30/01	3.9	< 50	< 50 [3]	< 300 [3]
	05/09/01	4.4	< 50	< 50	< 300
	04/14/99	4.5 (J35)	< 50	< 50	< 300
	01/13/99	4.23	< 50	< 50	< 300
	10/14/98	4.73 (J35)	< 50	< 50	< 300
	07/15/98	6.62	< 50	< 50	< 300
	04/20/98	4.05	< 50	< 50	< 300
	01/28/98	3.47	< 50	< 50	< 300
	10/23/97	2.08	< 50	< 50	< 300
	07/24/97	3.72	< 50	< 50	< 300
	04/22/97	3.96	< 50	< 50	< 300
	01/28/97	1.39	< 50	< 50	< 300
	10/09/96	NM	< 50	< 50	< 300
	07/12/96	NM	< 50	< 50	< 300
	05/01/96	NM	< 50	< 50	< 300
	02/08/96	NM	< 50	< 50	< 300
	11/07/95	NM	< 50	< 50	< 300
	08/10/95	NM	< 50	< 50	< 300
	04/18/95	NM	< 50	< 50	NA
	01/23/95	NM	< 50	< 50	NA
	11/10/94	NM	< 50	< 50	NA
	08/18/94	NM	< 50	< 50	NA
	04/27/94	NM	< 50	< 50	NA
	02/04/94	NM	< 50	< 50	NA
	10/27/93	NM	< 50	< 50	NA
	07/27/93	NM	< 50	< 50	NA

Table A-10-2
Summary of Dissolved Oxygen Measurements and Results of TPH Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	Field	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**443**	**443**	**443**
231GW10 (shallow)	03/09/06	0.5	< 50	< 50	< 300
	03/22/05	0.1	< 50	< 50	< 300
	03/16/04	0.15	< 50	< 50	< 300
	08/14/03	0.11	< 50	< 50	< 300
	03/14/03	0.1	< 50	< 50	< 300
	12/05/02	0.1	< 50	< 50	< 300
	08/29/02	0.1	< 50	< 50	< 300
	06/04/02	0.25	< 50	< 50	< 300
	03/07/02	0.15	< 50	< 50 UJ	< 300 UJ
	12/03/01	0.2	< 50	< 50 UJ	< 300 UJ
	08/30/01	2.0	< 50	190 [3] Y,NJ	< 300 [3]
	05/11/01	3.4	< 50	< 50	< 300
	04/19/99	1.35	< 50	56	< 300
	01/25/99	0.72	< 50	< 50	< 300
	10/19/98	3.05 (J35)	< 50	< 50	< 300
	07/22/98	0.64	< 50	< 50	< 300
	04/23/98	0.26	< 50	< 50	< 300
	01/28/98	0.36	< 50	< 50	< 300
	10/22/97	0.31	< 50	< 50	< 300
	07/23/97	0.18	< 50	< 50	< 300
	04/23/97	0.4	< 50	< 50	< 300
	01/29/97	0.23	< 50	< 50	< 300
	10/10/96	NM	< 50	110 (J25)	< 300
	07/16/96	NM	< 50	< 50	300 (U6)
	05/03/96	NM	< 50	< 50	< 300 (U12)
	02/06/96	NM	< 50	< 50	< 300
	11/06/95	NM	< 50	< 50	< 300
	08/11/95	NM	< 50	< 50	< 300
	04/19/95	NM	< 50	< 50	NA
	01/24/95	NM	< 50	54 (J25)	NA
	11/11/94	NM	< 50	< 50	NA
	08/18/94	NM	< 50	56 (J25)	NA
	04/27/94	NM	< 50	< 50	NA
	01/31/94	NM	< 50	57 (J25)	NA
	10/27/93	NM	< 50	< 50	NA
	07/26/93	NM	< 50	< 50	NA
231GW11 (shallow)	03/15/06	1.85	< 50	< 50	< 300
	04/05/05	0.2	< 50	< 50	< 300
	03/18/04	0.1	< 50	< 50	< 300
	08/14/03	0.2	< 50	77 Y	< 300
	03/14/03	2.1	< 50	< 50	< 300
	12/04/02	0.4	< 50	< 50	< 300
	08/30/02	1.8	< 50	< 50	< 300
	05/30/02	0.7	< 50	< 50	< 300
	03/07/02	0.7	< 50	< 50	< 300
	11/29/01	1	< 50	< 50	< 300
	08/30/01	1.8	< 50	< 50 [3]	< 300 [3]
	05/09/01	3.9	< 50	< 50	< 300
	04/13/99	1.01	< 50	< 50	< 300
	01/11/99	1.43 (J35)	< 50	< 50	< 300
	10/12/98	4.32 (J35)	< 50	< 50	< 300
	07/13/98	1.38	< 50	< 50	< 300

Table A-10-2
Summary of Dissolved Oxygen Measurements and Results of TPH Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	Field	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**443**	**443**	**443**
231GW11 (shallow)	04/21/98	1.19 (J35)	< 50	< 50	< 300
	01/26/98	1.03 (J35)	< 50	< 50	< 300
	10/21/97	0.41	< 50	< 50	< 300
	07/21/97	0.46	< 50	< 50	< 300
	04/21/97	0.43	< 50	< 50	< 300
	01/28/97	0.59	< 50	< 50	< 300
	10/08/96	NM	< 50	< 50	< 300 (U6)
	07/16/96	NM	< 50	< 50	< 300
	05/03/96	NM	< 50	< 50	< 300 (U12)
	02/13/96	NM	< 50	< 50	< 300
	11/08/95	NM	< 50	< 50	< 300
	08/14/95	NM	< 50	< 50	< 300
	04/19/95	NM	< 50	< 50	NA
	01/24/95	NM	< 50	< 50	NA
	11/11/94	NM	< 50	< 50	NA
	08/17/94	NM	< 50	< 50	NA
	04/26/94	NM	< 50	< 50	NA
	02/07/94	NM	< 50	< 50	NA
	10/28/93	NM	< 50	< 50	NA
	07/26/93	NM	< 50	< 50	NA
231GW13 (deep)	03/14/06	0.37	< 50	< 50	< 300
	04/05/05	0.1	< 50	< 50	< 300
	03/18/04	0.81	< 50	< 50	< 300
	08/14/03	0.2	< 50	< 50	< 300
	03/17/03	0.6	< 50	< 50	< 300
	12/05/02	0.7	< 50	< 50	< 300
	08/30/02	1	< 50	< 50	< 300
	05/30/02	0.8	< 50	< 50	< 300
	03/06/02	1	< 50	< 50	< 300
	11/28/01	1.5	< 50	< 50	< 300
	08/29/01	3.8	< 50	< 50 [3]	< 300 [3]
	05/09/01	4	< 50	< 50	< 300
	04/16/99	0.24	< 50	< 50	< 300 (U6)
	01/14/99	0.13	< 50	< 50	< 300
	10/15/98	0.93	< 50	< 50	< 300
	07/16/98	1.13	< 50	< 50	< 300
	04/21/98	0.74	< 50	< 50	< 300
	01/26/98	0.49	< 50	< 50	< 300
	10/20/97	0.09	< 50	< 50	< 300
	07/21/97	0.45	< 50	< 50	< 300
	04/21/97	0.51	< 50	< 50	< 300
	01/27/97	0.0	< 50	< 50	< 300
	10/07/96	NM	< 50	< 50	< 300 (U6)
	07/10/96	NM	< 50	< 50	< 300
	04/29/96	NM	< 50	< 50	< 300
	02/06/96	NM	< 50	< 50	< 300
	11/03/95	NM	< 50	< 50	< 300
	08/15/95	NM	< 50	< 50	< 300
	04/10/95	NM	NA	< 50	NA

Table A-10-2
Summary of Dissolved Oxygen Measurements and Results of TPH Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	Field	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**443**	**443**	**443**
231GW15 (intermediate)	03/14/06	0.29	< 50	< 50	< 300
	04/05/05	0.3	< 50	< 50	< 300
	03/18/04	0.51	< 50	< 50	< 300
	08/14/03	0.1	< 50	< 50	< 300
	03/17/03	0.7	< 50	< 50	< 300
	12/04/02	0.4	< 50	< 50	< 300
	08/30/02	1.4	< 50	< 50	< 300
	05/30/02	0.9	< 50	< 50	< 300
	03/05/02	0.5	< 50	< 50	< 300
	11/28/01	1.2	< 50	< 50	< 300
	08/30/01	1.5	< 50	< 50 [3]	< 300 [3]
	05/09/01	4.2	< 50	< 50	< 300
	04/16/99	0.25	< 50	< 50	< 300
	01/14/99	0.19	< 50	< 50	< 300
	10/15/98	0.6	< 50	< 50	< 300
	07/16/98	0.34	< 50	< 50	< 300
	04/21/98	0.19	< 50	< 50	< 300
	01/26/98	0.71	< 50	< 50	< 300
	10/20/97	0.2	< 50	< 50	< 300
	07/21/97	0.35	< 50	< 50	< 300
	04/21/97	0.25	< 50	< 50	< 300
	01/27/97	0.15	< 50	< 50	< 300
	10/07/96	NM	< 50	< 50	< 300 (U6)
	07/10/96	NM	< 50	< 50	< 300
	04/29/96	NM	< 50	< 50	< 300
	02/06/96	NM	< 50	< 50	< 300
	11/03/95	NM	< 50	< 50	< 300
	08/16/95	NM	< 50	< 50	< 300
	04/07/95	NM	NA	< 50	NA
231GW16 (shallow)	03/09/06	0.24	< 50	< 50	< 300
	03/22/05	0.1	< 50	< 50	< 300
	03/16/04	0.11	< 50	< 50	< 300
	08/14/03	0.06	< 50	< 50	< 300
	03/14/03	0.04	< 50	< 50	< 300
	12/05/02	0.11	< 50	< 50	< 300
	09/04/02	0.17	< 50	< 50	< 300
	06/04/02	0.2	< 50	< 50	< 300
	03/08/02	1.5	< 50	< 50	< 300
DUP0308023A	03/08/02	--	< 50	< 50	< 300
	12/04/01	0.7	< 50	< 50	< 300
	09/04/01	0.98	< 50	99 [3] Y,NJ	< 300 [3]
	05/14/01	1.53	< 50	< 50	< 300
	04/16/99	0.37	< 50	120 (J25)	< 300
	01/14/99	0.34	< 50	< 50	< 300
	10/15/98	0.82	< 50	< 50	< 300
	07/16/98	0.8	< 50	60 (J25)	< 300
	04/21/98	0.74	< 50	< 50	< 300
	01/26/98	3.27 (J35)	< 50	< 50	< 300
	10/20/97	0.08 (J35)	< 50	< 50	< 300
	07/21/97	0.28 (J35)	< 50	< 50	< 300
	04/24/97	0.44 (J35)	< 50	< 50	< 300

Table A-10-2
Summary of Dissolved Oxygen Measurements and Results of TPH Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	Field	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**443**	**443**	**443**
231GW16 (shallow)	01/30/97	0.26 (J35)	< 50	< 50	< 300
	10/10/96	NM	< 50	< 50	< 300
	07/15/96	NM	< 50	< 50	< 300
	05/02/96	NM	< 50	< 50	< 300 (U6)
	02/13/96	NM	< 50	< 50	< 300 (U12)
	11/03/95	NM	< 50	< 50	< 300
231GW17 (deep)	03/15/06	0.87	< 50	< 50	< 300
	04/05/05	2.4	< 50	< 50	< 300
	03/18/04	0.8	< 50	< 50	< 300
	08/18/03	1.2	< 50	74 HY	< 300
	03/14/03	2.6	< 50	< 50	< 300
	12/06/02	4	< 50	< 50	< 300
	08/30/02	0.7	< 50	< 50	< 300
	05/31/02	3.1	< 50	< 50	< 300
	03/07/02	3	< 50	< 50 UJ	< 300 UJ
	11/29/01	6.4	< 50	< 50	< 300
	08/30/01	2.3	< 50	85 [3] Y,NJ	< 300 [3]
	05/11/01	5.2	< 50	< 50	< 300
	04/15/99	4.06 (J35)	< 50	< 50	< 300
	04/15/99	--	< 50	< 50	NA
	01/13/99	4.27 (J35)	< 50	< 50	< 300
	10/14/98	NM	< 50	< 50	< 300
	07/15/98	6.66 (J35)	< 50	< 50	< 300
	04/20/98	3.86 (J35)	< 50	< 50	< 300
	01/27/98	4.22 (J35)	< 50	< 50	< 300
	10/21/97	3.18 (J35)	< 50	< 50	< 300
	07/22/97	3.92 (J35)	< 50	< 50	< 300
	04/22/97	3.12 (J35)	< 50	< 50	< 300
	01/28/97	3.65 (J35)	< 50	< 50	< 300
	10/08/96	NM	< 50	< 50	< 300 (U6)
	07/11/96	NM	< 50	< 50	< 300
	04/30/96	NM	< 50	< 50	< 300
	02/07/96	NM	< 50	< 50	< 300
	11/06/95	NM	< 50	< 50	< 300
	08/16/95	NM	< 50	< 50	< 300
	04/10/95	NM	< 50	< 50	NA
231GW18 (intermediate)	03/15/06	0.53	< 50	< 50	< 300
	04/05/05	0.9	< 50	< 50	< 300
	03/18/04	1	< 50	< 50	< 300
	08/14/03	0.4	< 50	< 50	< 300
	03/14/03	1.2	< 50	< 50	< 300
	12/05/02	1.9	< 50	< 50	< 300
	09/03/02	1.5	< 50	< 50	< 300
	05/31/02	1.7	< 50	< 50	< 300
	03/07/02	1.8	< 50	< 50	< 300
	11/29/01	4	< 50	< 50	< 300
	08/30/01	1.8	< 50	54 [3] Y,NJ	< 300 [3]
	05/11/01	4.1	< 50	< 50	< 300
	04/15/99	3.27 (J35)	< 50	< 50	< 300
	01/13/99	3.46 (J35)	< 50	< 50	< 300
	10/14/98	4.99	< 50	< 50	< 300
	07/15/98	5.19	< 50	< 50	< 300

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Summary of Dissolved Oxygen Measurements and Results of TPH Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	Field	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**443**	**443**	**443**
231GW18 (intermediate)	04/20/98	3.25	< 50	< 50	< 300
	01/27/98	3.74	< 50	< 50	< 300
	10/21/97	2.92	< 50	< 50	< 300
	07/22/97	3.28	< 50	< 50	< 300
	04/22/97	3.58	< 50	< 50	< 300
	01/28/97	3.02	< 50	< 50	< 300
	10/08/96	NM	< 50	< 50	< 300
	07/11/96	NM	< 50	< 50	< 300
	04/30/96	NM	< 50	< 50	< 300
	02/07/96	NM	< 50	< 50	< 300
	11/06/95	NM	< 50	< 50	< 300
	08/17/95	NM	< 50	< 50	< 300
	04/10/95	NM	NA	< 50	NA
231GW19 (shallow)	03/16/06	0.37	< 50	65 HY	< 300
	04/05/05	0.2	< 50	< 50	< 300
	03/18/04	0.92	< 50	72 HY	370
	08/14/03	0.6	< 50	< 50	< 300
	03/14/03	0.1	< 50	< 50	< 300
	12/05/02	0.9	< 50	< 50	< 300
	08/30/02	0.8	< 50	< 50	< 300
	05/30/02	1.7	< 50	< 50	< 300
	03/07/02	1.5	< 50	< 50	< 300
	11/28/01	1	< 50	< 50	< 300
	08/29/01	1.4	< 50	59 [3] Y,NJ	< 300 [3]
	05/09/01	1.5	< 50	< 50	< 300
	04/15/99	0.16	< 50	< 50	< 300
	01/13/99	0.39	< 50	< 50	< 300
	10/14/98	0.7	< 50	< 50	< 300
	07/15/98	0.26	< 50	< 50	< 300
	04/20/98	0.39	< 50	< 50	< 300
	01/27/98	0.29	< 50	< 50	< 300
	10/20/97	0.38	< 50	< 50	< 300
	07/22/97	0.15	< 50	< 50	< 300
	04/21/97	0.53	< 50	< 50	< 300
	01/27/97	0.16	< 50	< 50	< 300
	10/07/96	NM	< 50	< 50	< 300
	07/10/96	NM	< 50	< 50	< 300
	04/29/96	NM	< 50	< 50	< 300
	02/06/96	NM	< 50	< 50	< 300
	11/06/95	NM	< 50	< 50	< 300
	08/17/95	NM	< 50	< 50	< 300
	04/10/95	NM	NA	< 50	NA
231GW20 (deep)	03/15/06	0.28	< 50	< 50	< 300
	04/06/05	0.1	< 50	< 50	< 300
	03/18/04	1.02	< 50	< 50	< 300
	08/18/03	0.1	< 50	91 HY	< 300
	03/18/03	0.4	< 50	< 50	< 300
	12/06/02	0.5	< 50	< 50	< 300
	09/03/02	0.2	< 50	< 50	< 300
	05/31/02	0.9	< 50	< 50	< 300
	03/07/02	4	< 50	< 50	< 300

Table A-10-2
Summary of Dissolved Oxygen Measurements and Results of TPH Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	Field	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**443**	**443**	**443**
231GW20 (deep)	11/29/01	5.8	< 50	< 50	< 300
	09/04/01	2.8	< 50	< 50 [3]	< 300 [3]
	05/11/01	5.8	< 50	< 50	< 300
	04/20/99	0.18	< 50	< 50	< 300
	01/20/99	1.4	< 50	< 50 (U12)	< 300
	10/20/98	0.51	< 50	< 50	< 300
	07/21/98	0.19	< 50	< 50	< 300
	04/23/98	0.33	< 50	< 50	< 300
	01/29/98	0.12	< 50	< 50	< 300
	10/22/97	0.4	< 50	68 (J25)	340 (J25)
	07/23/97	0.25	< 50	< 50	< 300
	04/23/97	0.2	< 50	< 50	< 300
	01/29/97	0.11	< 50	< 50	< 300
	10/09/96	NM	< 50	< 50	< 300 (U6)
	07/16/96	NM	< 50	< 50	< 300
	05/02/96	NM	< 50	< 50	< 300 (U12)
	02/13/96	NM	< 50	< 50	340 (J25, J32)
	11/08/95	NM	< 50	< 50	< 300
	08/17/95	NM	< 50	< 50	< 300
	04/11/95	NM	NA	100	NA
231GW21 (shallow)	03/08/06	0.8	**3,100**	330 LY	< 300
DUP0308061A	03/08/06	NA	**3,400**	**1,300 HLY**	**5,400**
231GW21CL	03/08/06	NA	**3,600**	**1,200 J+**	< 300 U
	03/31/05	0.2	**2,900 Y**	**590 LY**	< 300
DUP0331052D	03/31/05	--	**1,700 Y**	420 LY	< 300
231GW21CL	03/31/05	--	**1,500**	**1,800**	430
	03/19/04	0.14	**4,100**	120 LY	< 300
	08/19/03	0.36	**4,700 H**	150 LY	< 300
DUP0819031B	08/19/03	--	**6,400 Z**	180 LY	< 300
	03/14/03	0.12	**3,400**	130 YL	< 300
	12/06/02	0.2	**6,100 Y**	260 YL	< 300
DUP1206021A	12/06/02	--	**5,900 Y**	210 YL	< 300
	09/04/02	0.44	**5,500**	170 YL	< 300
	06/04/02	0.18	**3,700**	200 YL	< 300
DUP0604023A	06/04/02	--	**3,800**	160 YL	< 300
	03/08/02	0.36	**2,100**	91 YL	< 300
	11/29/01	0.11	**2,700**	130 YL	< 300
	09/06/01	1.17	**6,100 Z**	**3,100 [3] YL,NJ**	< 300 [3]
	05/14/01	1.16	**8,600**	250 YL	< 300
	06/17/99	NM	**8,000 (J25)**	NA	NA
	04/20/99	0.42	< 50	**470 (J25)**	**< 3,000**
	01/20/99	0.91	**4,400 (J25)**	380 (J25, J12)	< 300
	10/20/98	0.68	**9,800 (J25)**	**750 (J25)**	< 300
	07/23/98	0.31	**10,000 (J25)**	**560 (J25)**	< 300
	05/01/98	0.43	**6,600 (J25)**	240 (J25)	< 300
	01/28/98	0.39	**6,500 (J25)**	**620 (J25)**	< 300
	10/27/97	1.26 (J35)	**4,800 (J25)**	280 (J25)	< 300
	07/24/97	0.19	**19,000 (J25)**	**630 (J25)**	< 300
	04/24/97	0.44	**16,000 (J25)**	**1,100 (J25)**	< 300
	01/30/97	0.24	**5,800 (J25)**	**840 (J25)**	< 300
	10/11/96	NM	**11,000 (J25)**	**810 (J25)**	< 300

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Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	Field	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**443**	**443**	**443**
231GW21 (shallow)	07/17/96	NM	**18,000 (J25)**	**570 (J25)**	< 300
	05/06/96	NM	**22,000**	**830 (J25)**	< 300
	02/12/96	NM	**13,000 (J25)**	**540 (J25)**	< 300 (U12)
	11/10/95	NM	**24,000 (J25)**	**970 (J25)**	< 300
	08/16/95	NM	**26,000 (J25)**	1,100 (J25)	< 300
	04/24/95	NM	**16,000 (J25)**	**1,100 (J25)**	NA
	04/12/95	NM	NA	**4,700**	NA
231GW22 (shallow)	03/09/06	0.8	**8,400**	300 LY	< 300
DUP0309061A	03/09/06	NA	**14,000 Z**	330 LY	< 300
	03/23/05	0.20	**18,000 Z**	130 LY	< 300
DUP0323052A	03/23/05	--	**16,000 Z**	120 LY	300 Y
	03/19/04	0.2	**25,000**	89 LY	< 300
DUP0319041A	03/19/04	--	**24,000 Z**	100 LY	< 300
231GW22CL	03/19/04	--	**4,700**	< 48	< 240
	08/19/03	0.2	**7,900 Z**	110 LY	< 300
DUP0819031A	08/19/03	--	**17,000 Z**	150 LY	< 300
231GW22CL	08/19/03	--	**7,600**	< 50	< 250
	03/17/03	0.18	**5,900**	**540 YL**	< 300
DUP0317031A	03/17/03	NA	**5,600 Z**	350 YL	< 300
231GW22CL	03/17/03	NA	**8,000**	< 50	270
	12/06/02	0.14	**3,400 YZ**	170 YL	< 300
	09/04/02	0.29	**6,700**	70 YL	< 300
DUP0904021A	09/04/02	--	**7,000**	81 YL	< 300
231GW22CL	09/04/02	--	**7,200 g**	120 ndp	< 500
	06/05/02	0.29	**2,400 Z**	< 50	< 300
DUP0605023B	06/05/02	--	**2,400 Z**	51 YL	< 300
	03/08/02	1.4	**6,400 Z**	110 YL	< 300
DUP0308023B	03/08/02	--	**6,600 Z**	73 YL	< 300
231GW22CL	03/08/02	--	260	< 50 UJ	**< 500 UJ**
	12/04/01	0.42	**9,000**	110 YL	< 300
DUP1204013A	12/04/01	--	**9,100**	120 YL	< 300
	09/04/01	0.77	**15,000 Z**	**5,800 [3] YL,NJ**	**740 [3] YL,NJ**
	05/14/01	1.54	**20,000**	110 YL	< 300
DUP0514011A	05/14/01	--	**19,000**	110 YL	< 300
	04/21/99	0.52	**15,000 (J25)**	**840 (J25)**	**< 1,500**
	01/21/99	0.37	**26,000 (J25)**	**550 (J25, J12)**	**< 1,500**
	10/21/98	5.57 (J35)	**14,000 (J25)**	**530 (J25, J13)**	< 320
	07/22/98	0.36	**21,000 (J25)**	**490 (J25)**	< 300
	04/27/98	0.16	**24,000 (J25)**	**760 (J25)**	< 300
	01/29/98	0.25	**29,000 (J25)**	**1,000 (J25)**	340 (J25)
	10/28/97	0.44	**19,000 (J25)**	**820 (J25)**	< 300
	07/28/97	0.38	**31,000 (J25)**	**700 (J25)**	< 300
	04/28/97	0.33	**36,000 (J25)**	**770 (J25)**	< 300
231GW23 (shallow)	03/15/06	0.45	< 50	< 50	< 300
	04/05/05	0.4	< 50	< 50	< 300
	03/18/04	0.1	< 50	< 50	< 300
	08/18/03	0.2	< 50	< 50	< 300
	03/17/03	1.8	< 50	< 50	< 300
	12/05/02	0.3	< 50	< 50	< 300
	09/03/02	0.3	< 50	< 50	< 300
	05/31/02	1.2	< 50	< 50	< 300

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Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	Field	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**443**	**443**	**443**
231GW23 (shallow)	03/07/02	0.6	< 50	< 50 UJ	< 300 UJ
	11/29/01	2.2	< 50	< 50	< 300
	09/04/01	0.7	< 50	< 50 [3]	< 300 [3]
	05/14/01	1.1	< 50	< 50	< 300
	04/20/99	0.17	< 50	63	< 300
	01/20/99	0.19	< 50	< 50 (U12)	< 300
	10/22/98	0.74	< 50	< 57 (U13)	< 340
	07/23/98	0.32	**680 (R32)**	< 50	< 300
	04/28/98	0.13	< 50	< 50	< 300
	02/02/98	0.55	< 50	< 50	< 300
	10/23/97	0.13	< 50	< 50	< 300
	07/29/97	0.34	< 50	54 (R32)	< 300
	04/29/97	0.31	< 50	< 50	< 300
231GW24 (shallow)	03/16/06	0.47	< 50	55 HY	< 300
	04/05/05	0.6	< 50	< 50	< 300
	03/18/04	0.4	< 50	< 50	< 300
	08/14/03	0.3	< 50	< 50	< 300
	03/17/03	0.5	< 50	< 50	< 300
	12/05/02	0.6	< 50	< 50	< 300
	08/30/02	1.4	< 50	< 50	< 300
	05/30/02	0.9	< 50	< 50	< 300
	03/06/02	0.7	< 50	< 50	< 300
	11/29/01	1.4	< 50	< 50	< 300
	08/29/01	3.9	< 50	< 50 [3]	< 300 [3]
	05/09/01	3	< 50	< 50	< 300
	04/19/99	0.39	< 50	< 50	< 300
	01/20/99	0.34	< 50	< 50 (U12)	< 300
	10/19/98	1.78	< 50	< 50	< 300
	07/20/98	0.89	< 50	< 50	< 300
	04/22/98	0.13	< 50	< 50	< 300
	02/03/98	0.82	< 50	< 50	< 300
	10/29/97	0.47	< 50	< 50	< 300
	07/30/97	0.46	< 50	< 50	< 300
	04/30/97	0.41	< 50	< 50	< 300
231GW25 (shallow)	03/15/06	0.29	< 50	< 50	< 300
	04/06/05	0.5	< 50	< 50	< 300
	03/18/04	0.3	< 50	< 50	< 300
	08/18/03	0.1	< 50	64 Y	< 300
	03/17/03	4.3	< 50	< 50	< 300
	12/05/02	0.9	< 50	< 50	< 300
	09/03/02	0.4	< 50	< 50	< 300
	05/31/02	1.1	< 50	< 50	< 300
	03/07/02	1.5	< 50	< 50	< 300
	11/29/01	3.7	< 50	< 50	< 300
	09/04/01	0.9	< 50	200 [3] Y,NJ	< 300 [3]
	05/14/01	1.6	< 50	< 50	< 300
	04/19/99	0.23	< 50	88 (J25)	< 300
	01/21/99	0.18	< 50	< 50 (U12)	< 300
	10/19/98	2.05	< 50	< 50	< 300
	07/20/98	1.28	< 50	< 50	< 300

Table A-10-2
Summary of Dissolved Oxygen Measurements and Results of TPH Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	Field	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**443**	**443**	**443**
231GW25 (shallow)	04/22/98	0.49	< 50	< 50	< 300
	02/03/98	0.25	< 50	< 50	< 300
	10/29/97	0.48	< 50	< 50	< 300
	07/30/97	0.46	< 50	< 50	< 300
	04/30/97	0.59	< 50	< 50	< 300
231GW26 (intermediate)	03/16/06	0.39	< 50	< 50	< 300
	04/06/05	0.3	< 50	< 50	< 300
	03/18/04	1.05	< 50	< 50	< 300
	08/15/03	0.2	< 50	130 HY	< 300
	03/18/03	0.7	< 50	< 50	< 300
	12/06/02	0.6	< 50	< 50	< 300
	09/04/02	0.5	< 50	< 50	< 300
	06/03/02	1	< 50	< 50	< 300
	03/07/02	2.2	< 50	< 50	< 300
	11/29/01	4	< 50	< 50	< 300
	09/04/01	0.6	< 50	< 50 [3]	< 300 [3]
	05/10/01	4.8	< 50	< 50	< 300
	04/21/99	1.2	< 50	< 50 (U9)	< 300
	01/21/99	0.83	< 50	< 50 (U12)	< 300
	10/21/98	3.28	< 50	< 54 (U13)	< 310
	07/22/98	1.02	440 (R32)	< 50	< 300
	04/27/98	0.96	< 50	< 50	< 300
	01/29/98	1.27	< 50	< 50	< 300
	10/28/97	2.13	< 50	< 50	< 300
	07/28/97	0.65	< 50	< 50	< 300
	04/28/97	0.81	57 (J25)	< 50	< 300
231GW27 (intermediate)	03/15/06	0.43	< 50	< 50	< 300
	04/06/05	2.3	< 50	< 50	< 300
	03/19/04	0.9	< 50	< 50	< 300
	08/15/03	1	< 50	84 HY	< 300
	03/18/03	2.1	< 50	< 50	< 300
	12/10/02	2.8	< 50	< 50	< 300
	09/04/02	1.7	< 50	< 50	< 300
	06/03/02	1.6	< 50	< 50	< 300
	03/07/02	2.1	< 50	< 50 YH,J-	< 300 J-
	11/29/01	4	< 50	< 50	< 300
	09/04/01	1.7	< 50	**3,100 [3] YH,NJ**	**1,400 [3] YL,NJ**
DUP0904012A	09/04/01	--	< 50	**3,500 [3] YH,NJ**	**1,500 [3] YL,NJ**
231GW27CL	09/04/01	--	< 50	85 ndp	< 300
	05/10/01	4.1	< 50	79 YH	**460**
DUP0510011A	05/10/01	--	< 50	130 YH	**740**
231GW27CL	05/10/01	--	< 50	89 ndp	NA
	04/21/99	4.03	< 50	58 (J25)	< 300
	01/21/99	4.11	< 50	< 50 (U12)	< 300
	10/21/98	4.56	< 50	< 52 (U13)	< 310
	07/22/98	8.25	**< 1,000**	< 50	< 300
	04/27/98	4.66	< 50	< 50	< 300
	01/29/98	4.51	< 50	< 50	< 300
	10/28/97	4.77	< 50	< 50	< 300
	07/28/97	4.26	< 50	< 50	< 300
	04/28/97	5.77	< 50	< 50	< 300

Table A-10-2
Summary of Dissolved Oxygen Measurements and Results of TPH Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	Field	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**443**	**443**	**443**
231GW28 (intermediate)	03/15/06	0.13	< 50	160 Y	< 300
	04/06/05	0.1	51 HY	< 50	< 300
	03/18/04	0.1	< 50	55 Y	< 300
	08/15/03	0.2	< 50	100 HY	< 300
	03/17/03	0.5	< 50	< 50	< 300
	12/06/02	0.5	< 50	< 50	< 300
	09/03/02	0.6	< 50	< 50	< 300
	05/31/02	1.2	< 50	< 50	< 300
	03/07/02	1.0	< 50	< 50	< 300
	12/04/01	1.94	< 50	< 50	< 300
	09/04/01	0.8	< 50	< 50 [3]	< 300 [3]
	05/09/01	1.6	< 50	< 50	< 300
	04/13/99	0.34	< 50	< 50	< 300
	01/11/99	0.17	< 50	< 50	< 300
	10/22/98	0.87	< 50	< 53 (U13)	< 310
	07/23/98	1.47	< 50	< 50	< 300
	04/28/98	1.52	< 50	< 50	< 300
	02/02/98	1.09	< 50	< 50	< 300
	10/27/97	1.5	< 50	< 50	< 300
	07/29/97	0.4	< 50	< 50	< 300
	04/29/97	0.51	< 50	< 50	< 300
231GW29 (intermediate)	03/16/06	0.58	< 50	57 HY	< 300
	04/06/05	0.2	< 50	< 50	< 300
	03/18/04	0.2	< 50	< 50	< 300
DUP0318043B	03/18/04	--	< 50	< 50	< 300
231GW29CL	03/18/04	--	< 50	< 51	< 250
	08/15/03	0.2	< 50	99 HY	< 300
	03/18/03	0.4	< 50	< 50 UJ	< 300
	12/06/02	0.2	< 50	< 50	< 300
	09/03/02	0.4	< 50	< 50	< 300
	06/03/02	0.9	< 50	< 50	< 300
	03/07/02	0.8	< 50	< 50	< 300
	11/29/01	2.0	< 50	< 50	< 300
	09/04/01	0.5	< 50	< 50 [3]	< 300 [3]
	05/11/01	6.1	< 50	< 50	< 300
	04/21/99	0.23	< 50	< 50	< 300
	01/21/99	0.33	< 50	71 (J25, J12)	< 300
	10/22/98	0.45	< 50	< 54 (U13)	< 320
	07/23/98	0.44	76 (J25)	< 50	< 300
	04/28/98	0.22	< 50	< 50	< 300
	02/02/98	0.45	< 50	< 50	< 300
	10/27/97	0.87	< 50	< 50	< 300
	07/29/97	0.14	< 50	75 (R32)	< 300
	04/29/97	0.87	< 50	< 50	< 300
231GW30 (shallow)	03/09/06	0.4	< 50	< 50	< 300
	03/22/05	0.2	< 50	< 50	< 300
	03/19/04	0.2	< 50	< 50	< 300
	08/14/03	0.09	< 50	340 HY	3,500
	03/14/03	0.09	< 50	< 50	< 300
	12/06/02	0.13	< 50	< 50	< 300
	09/04/02	0.43	< 50	< 50	< 300

Table A-10-2
Summary of Dissolved Oxygen Measurements and Results of TPH Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	Field	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**443**	**443**	**443**
231GW30 (shallow)	06/04/02	0.19	< 50	< 50	< 300
	03/08/02	0.8	< 50	< 50	< 300
	12/04/01	1.51	< 50	< 50	< 300
	09/04/01	1.11	< 50	300 [3] Y,NJ	< 300 [3]
	05/14/01	1.26	< 50	< 50	< 300
	04/19/99	0.34	< 50	220 (J25)	< 300
	01/19/99	0.66	< 50	160 (J25, J12)	< 300
	10/19/98	7.88 (J35)	< 50	**450 (J25)**	< 300
	07/20/98	1.3	< 50	240 (J25)	< 300
	04/22/98	0.51	< 50	210 (J25)	< 300
	02/03/98	1.05	< 50	120 (J25)	< 300
	10/29/97	0.42	64 (J25)	340 (J25)	< 300
	07/30/97	0.15	< 50	380 (R32)	< 300
	04/30/97	0.81	< 50	250 (J25)	< 420
231PZ01 (shallow)	03/14/06	0.56	**9,300**	360 Y	< 300
	04/04/05	NM	**15,000**	430 LY	< 300
	03/19/04	0.3	**24,000 Z**	340 LY	< 300
	08/19/03	0.52	**6,900 Z**	370 LY	< 300
	03/17/03	0.12	**8,300 Z**	430 YL	< 300
	12/09/02	0.36	**22,000**	120 YL	< 300
	09/05/02	2.21	**18,000 Z**	180 YL	< 300
	06/05/02	0.27	**6,900 Z**	170 YL	< 300
	03/08/02	0.44	**8,600 Z**	340 YL	**< 600**
	11/30/01	0.7	**20,000**	220 YL	< 300
	09/06/01	0.8	**23,000 Z**	**12,000 [3] YL,NJ**	**1,700 [3] YL,NJ**
	05/15/01	1.68	**7,000**	230 YL	< 300
	04/14/99	NM	**62,000 (J25)**	**9,600 (J25)**	**< 12,000**
	01/12/99	9.18 (J35)	**37,000 (J25)**	**800 (J25)**	**< 3,000**
	10/13/98	5.98 (J35)	**25,000 (J25)**	**3,700 (J25)**	**< 7,500**
	07/14/98	NM	**44,000 (J25)**	**930 (J25)**	**850 (J25)**
	04/30/98	NM	**45,000 (J25)**	**810 (J25)**	< 300
	02/03/98	0.8	**93,000 (J25, J29)**	**2,600 (J25)**	**650 (J25)**
231PZ02 (shallow)	03/10/06	0.89	**780**	430 Y	< 300
	04/04/05	0.2	**1,100**	100 Y	< 300
	03/19/04	0.2	**1,100**	< 50	< 300
	08/19/03	0.35	**800 LZ**	< 50	< 300
	03/17/03	0.1	**690**	300 Y	< 300
	12/09/02	1.4	**1,700**	< 50	< 300
	09/05/02	2.5	**1,400 YZ**	< 50	< 300
	06/05/02	0.7	**740 YL**	< 50	< 300
	03/08/02	0.04	**610**	< 50	< 300
	11/30/01	1.11	**460**	< 50	< 300
	09/06/01	0.74	**1,900 Z**	**22,000 [3] YH,NJ**	**8,300 [3] YL,NJ**
	05/15/01	1.68	**470**	< 50	< 300
	04/14/99	0.49	**1,500 (J25)**	**3,200 (J25)**	**760 (J25, J5)**
	01/12/99	8.41 (J35)	**1,400 (J25)**	NA	NA
	10/13/98	7.81 (J35)	**1,800 (J25, J5)**	120 (J25)	**660 (J25)**
	07/14/98	11.6 (J35)	**1,400 (J25)**	310 (J25)	370 (J25)
	04/30/98	1.93	**620 (J25)**	**750 (J25, J7)**	< 300
	02/03/98	0.59	**1,300 (J25)**	< 50	< 300

Table A-10-2
Summary of Dissolved Oxygen Measurements and Results of TPH Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	Field	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**443**	**443**	**443**
231PZ03 (shallow)	03/14/06	0.47	**4,000**	200 Y	< 300
	04/04/05	0.2	**3,700**	180 Y	< 300
	03/19/04	0.2	**4,700**	98 LY	< 300
	08/21/03	0.11	**2,700**	120 YL	< 300
	03/17/03	0.16	**2,300**	380 YL	< 300
	12/06/02	0.11	**2,200 Y**	87 YL	< 300
	09/04/02	0.28	**2,500**	98 YL	< 300
	06/06/02	0.3	**2,300**	68 YL	< 300
	03/11/02	0.14	**3,200 Z**	83 YL	< 300
	11/30/01	0.18	**1,900**	140 YLH	**670**
	09/06/01	0.98	**1,900**	**2,100 [3] YL,NJ**	< 300 [3]
	05/15/01	1.8	**4,000**	99 YL	< 300
	01/12/99	0.44	**2,900 (J25)**	**1,100 (J25)**	< 300
	04/14/99	0.38	**4,000 (J25)**	390 (J25)	**< 600**
	10/13/98	0.94	**3,000 (J25)**	**470 (J25, J5)**	**< 1,200**
	07/14/98	0.23	**6,600 (J25)**	260 (J25)	< 300
	04/30/98	0.13	**5,000 (J25)**	**610 (J25)**	< 300
	02/03/98	2.21 (J35)	**12,000 (J25, J29)**	**1,400 (J25)**	**< 1,500**
231PZ04 (shallow)	03/14/06	0.53	**5,300**	350 Y	< 300
	04/04/05	0.2	**6,100**	290 LY	< 300
	03/19/04	0.2	**7,000**	140 LY	< 300
	08/21/03	0.1	**3,000**	160 YL	< 300
	03/17/03	0.08	**4,700**	240 YL	< 300
	12/06/02	0.2	**4,500 Y**	160 YL	< 300
	09/04/02	0.2	**4,000**	170 YL	< 300
	06/06/02	0.24	**3,200**	140 YL	< 300
	03/08/02	0.12	**4,700**	120 YL	< 300
	11/30/01	0.91	**2,200**	130 YL	< 300
	09/06/01	1.02	**4,200 Z**	**2,200 [3] YL,NJ**	< 300 [3]
	05/15/01	2.6	**7,600**	190 YL	< 300
	04/14/99	2.27 (J35)	**11,000 (J25)**	**710 (J25)**	**< 680**
	01/11/99	8.71 (J35)	**8,500 (J25)**	370 (J25)	< 300
	10/12/98	8.03 (J35)	**7,600 (J25)**	< 50	< 300
	07/13/98	14.57 (J35)	**9,700 (J25)**	**460 (J25)**	< 300
	04/30/98	4.57 (J35)	**14,000 (J25)**	**770 (J25)**	< 300
	02/04/98	6.68 (J35)	**28,000 (J25)**	**1,400 (J25)**	< 300

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 20
during previous quarters are identified in the respective quarterly reports.
2 - From Table 4 of the CAP.
3 - TPH analysis was not run using the silica gel cleanup method 3630A, although it was marked on the chain of custody.
µg/L - micrograms per liter
mg/L - milligrams per liter
NA - Not analyzed
NM - Not measured
TPH - Total petroleum hydrocarbons
g - Hydrocarbon reported in the gasoline range does not match the gasoline standard.
H - Heavier hydrocarbons contributed to the quantitation.
L - Lighter hydrocarbons contributed to the quantitation.
ndp - Hydrocarbon reported does not match the pattern of the diesel standard.
NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
Y - Sample exhibits a fuel pattern that does not resemble the standard
Z - Sample exhibits unknown single peak or peaks.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.
Bold numbers - indicate concentrations which exceed cleanup levels.

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**0.38**	**--**	**--**	**1,500**	**1**	**--**	**--**	**80**	**1.3**	**--**	**43**	**--**	**13**	**300**	**--**	**--**	**150**	**130**	**2.7**	**--**
207GW03	03/16/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
(intermediate)	04/12/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/19/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	1.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/21/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/19/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	15	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/10/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	11	< 0.5	< 1	< 4	< 0.5	NA	< 0.5 UJ	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/03/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	06/03/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	1.3	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/11/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/30/01	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/30/01	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/14/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/13/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/11/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	< 2	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/12/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	< 2	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/09/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/04/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	< 2	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/05/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	< 2	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
231GW06	03/15/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
(intermediate)	04/04/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/17/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/04/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/03/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/30/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/05/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/29/01	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1 U	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/30/01	NA	< 0.5	NA	NA	< 10	0.4 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	1.4	1.3	< 0.5	ND
	05/09/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/20/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/20/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/20/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/21/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/23/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/27/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/22/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/23/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/23/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/29/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/10/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/15/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/02/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/07/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/09/95	NA	< 0.5	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 UY	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5 U	ND
	08/10/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	NA	NA	NA	NA	< 2.9	< 0.5	< 0.5	ND
	04/17/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/25/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/09/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/16/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/25/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/28/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**0.38**	**--**	**--**	**1,500**	**1**	**--**	**--**	**80**	**1.3**	**--**	**43**	**--**	**13**	**300**	**--**	**--**	**150**	**130**	**2.7**	**--**
231GW09	05/24/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/15/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
(shallow)	11/29/05	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
DUP1129052A	11/29/05	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	08/31/05	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	06/01/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	04/04/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	12/17/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 1	ND
DUP1217042A	12/17/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 1	ND
	08/12/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/27/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
DUP0527042C	05/27/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
231GW09CL	05/27/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	NA	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/15/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/17/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	0.6	< 0.5	< 0.5	ND
	12/04/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/30/02	NA	NA [3]	NA	NA	NA [3]	< 0.5	NA [3]	NA [3]	NA [3]	NA [3]	NA [3]	< 0.5	NA	< 2	NA	NA	NA	< 0.5	< 0.5	NA [3]	ND
	05/30/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/29/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 U	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/30/01	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 5	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/09/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4.5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/14/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/13/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/14/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/15/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/20/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/28/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/23/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/24/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/22/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/28/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/09/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/12/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	0.6	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	0.54	< 0.5	< 0.5	ND
	05/01/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/08/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	0.51	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/07/95	NA	< 0.5	NA	NA	< 10	< 0.5	< 0.5	< 5	0.68	< 0.5	< 4.5 UY	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5 U	ND
	08/10/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	0.57	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 2.7	< 0.5	< 0.5	ND
	04/18/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	0.53	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/23/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	0.52	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/10/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/18/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/27/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	1.3	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/04/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	0.64	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
231GW10	03/09/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
(shallow)	03/22/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/16/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/05/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/29/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	06/04/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**0.38**	**--**	**--**	**1,500**	**1**	**--**	**--**	**80**	**1.3**	**--**	**43**	**--**	**13**	**300**	**--**	**--**	**150**	**130**	**2.7**	**--**
231GW10 (shallow)	12/03/01	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/30/01	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/11/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4.5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/19/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/25/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/19/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/22/98	NA	< 0.5	NA	NA	NA	0.25	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	0.88	< 0.5	ND
	04/23/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/28/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/22/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/23/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/23/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/29/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/10/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/16/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	0.7	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/03/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/06/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/06/95	NA	< 0.5	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 UY	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5 U	ND
	08/11/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 1.3	< 0.5	< 0.5	ND
	04/19/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/24/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/11/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/18/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/27/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/31/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
231GW11 (shallow)	03/15/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	04/05/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/14/03	NA	< 0.5	NA	NA	< 10	0.1 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/04/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/30/02	NA	NA [3]	NA	NA	NA [3]	< 0.5	NA [3]	NA [3]	NA [3]	NA [3]	NA [3]	< 0.5	NA	< 2	NA	NA	NA	< 0.5	< 0.5	NA [3]	ND
	05/30/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/29/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 U	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/30/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/09/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/13/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/11/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/12/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/13/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/21/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/26/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/21/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/21/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/21/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/28/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/08/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	1.3	< 0.5	< 0.5	ND
	07/16/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/03/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/13/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/08/95	NA	< 0.5	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 UY	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5 U	ND

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**0.38**	**--**	**--**	**1,500**	**1**	**--**	**--**	**80**	**1.3**	**--**	**43**	**--**	**13**	**300**	**--**	**--**	**150**	**130**	**2.7**	**--**
231GW11 (shallow)	08/14/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 2.8	< 0.5	< 0.5	ND
	04/19/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/24/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/11/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/17/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/26/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/07/94	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
231GW13 (deep)	03/14/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	04/05/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	NA [3]	< 0.5	ND
	08/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/17/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/05/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	1.3	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/30/02	NA	NA [3]	NA	NA	NA [3]	< 0.5	NA [3]	NA [3]	NA [3]	NA [3]	NA [3]	< 0.5	NA	< 2	NA	NA	NA	< 0.5	< 0.5	NA [3]	ND
	05/30/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/06/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/28/01	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/29/01	NA	< 0.5	NA	NA	< 10	0.8	< 1	< 0.5	< 0.5	< 1	< 4	0.8	NA	< 0.5	NA	NA	NA	3.7	4.4	< 0.5	ND
	05/09/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/16/99	NA	< 0.5	NA	NA [3]	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/14/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/15/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/16/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/21/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/26/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/20/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/21/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/21/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/27/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/07/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/10/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/29/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/06/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/03/95	NA	< 0.5	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 UY	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5 U	ND
	08/15/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 1.8	< 0.5	< 0.5	ND
231GW15 (intermediate)	03/14/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	04/05/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/17/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/04/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/30/02	NA	NA [3]	NA	NA	NA [3]	< 0.5	NA [3]	NA [3]	NA [3]	NA [3]	NA [3]	< 0.5	NA	2.8	NA	NA	NA	< 0.5	< 0.5	NA [3]	ND
	05/30/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/05/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/28/01	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	<0.5	< 0.5	< 0.5	ND
	08/30/01	NA	< 0.5	NA	NA	< 10	0.3 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	1.1	1	< 0.5	ND
	05/09/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/16/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/14/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/15/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/16/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/21/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**0.38**	**--**	**--**	**1,500**	**1**	**--**	**--**	**80**	**1.3**	**--**	**43**	**--**	**13**	**300**	**--**	**--**	**150**	**130**	**2.7**	**--**
231GW15 (intermediate)	01/26/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/20/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/21/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/21/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/27/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/07/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/10/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/29/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/06/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/03/95	NA	< 0.5	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 UY	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5 U	ND
	08/16/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 1.7	< 0.5	< 0.5	ND
231GW16 (shallow)	03/09/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/22/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/16/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/05/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/04/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	06/04/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1.0	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/08/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
DUP0308023A	03/08/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/04/01	NA	< 0.5	NA	NA	< 10 UJ	0.3 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/04/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/14/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1	6.8	< 0.5	< 1	< 4.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/16/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/14/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/15/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/16/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	0.84	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/21/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/26/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/20/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/21/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/24/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/30/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/10/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/15/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	1.7	< 0.5	< 0.5	ND
	05/02/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/13/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/03/95	NA	< 0.5	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 UY	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5 U	ND
231GW17 (deep)	03/15/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	2.6 J+	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	04/05/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	2.6	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	0.2 J	< 1	< 0.5	2.9	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/18/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	2.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/14/03	NA	< 0.5	NA	NA	< 10	0.1 J	< 1	< 0.5	3.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/06/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	3.2	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/30/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	3.1	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/31/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	3.6	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	3.2	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/29/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 U	< 0.5	1.8	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/30/01	NA	< 0.5	NA	NA	< 10 UJ	0.4 J	< 1	< 0.5	1.3	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	1.2	< 0.5	< 0.5	ND
	05/11/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1 UJ	< 0.5	2.5	< 1	< 5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**0.38**	**--**	**--**	**1,500**	**1**	**--**	**--**	**80**	**1.3**	**--**	**43**	**--**	**13**	**300**	**--**	**--**	**150**	**130**	**2.7**	**--**
231GW17 (deep)	04/15/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	3.6	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/13/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	2.7	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/14/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	2.3	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/15/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	3.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/20/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	3.6	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/27/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	3.9	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/21/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	2.8	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/22/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	2.6	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/22/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	3.3	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/28/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	3.2	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/08/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	3.2	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/11/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	3.3	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/30/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	2.7	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/07/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	3.1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/06/95	NA	< 0.5	NA	NA	< 10	< 0.5	< 0.5	< 5	2.9	< 0.5	< 4.5 UY	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5 U	ND
	08/16/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	2.2	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 2.1	< 0.5	< 0.5	ND
231GW18 (intermediate)	03/15/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	0.6 J+	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	04/05/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	0.6	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	0.8	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	0.6	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	0.7	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/05/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	0.8	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/03/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	0.8	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/31/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	1	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	0.9	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/29/01	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1 U	< 0.5	1	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/30/01	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	0.9	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/11/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1 UJ	< 0.5	0.7	< 1	< 5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/15/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	1.2	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/13/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	0.99	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/14/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	0.75	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/15/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	1.1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/20/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	1.1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/27/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	1.2	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/21/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	0.98	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/22/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	1.2	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/22/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	1.3	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/28/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	1.3	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/08/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	1.4	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/11/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	1.3	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/30/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	1.4	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/07/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	1.6	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/06/95	NA	< 0.5	NA	NA	< 10	< 0.5	< 0.5	< 5	1.4	< 0.5	< 4.5 UY	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5 U	ND
	08/17/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	1.2	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 1.2	< 0.5	< 0.5	ND
231GW19 (shallow)	03/16/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	04/05/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/05/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/30/02	NA	NA [3]	NA	NA	NA [3]	0.65	NA [3]	NA [3]	NA [3]	NA [3]	NA [3]	< 0.5	NA	2.6	NA	NA	NA	0.94	2	NA [3]	ND

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**0.38**	**--**	**--**	**1,500**	**1**	**--**	**--**	**80**	**1.3**	**--**	**43**	**--**	**13**	**300**	**--**	**--**	**150**	**130**	**2.7**	**--**
231GW19 (shallow)	05/30/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/28/01	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/29/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/09/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/15/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/13/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/14/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/15/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/20/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/27/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/20/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/22/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/21/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/27/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/07/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/10/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/29/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/06/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/06/95	NA	< 0.5	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 UY	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5 U	ND
	08/17/95	NA	NA	NA	NA	< 10	**2**	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 2.3	< 0.5	< 0.5	ND
231GW20 (deep)	03/15/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	04/06/05	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	0.1 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/18/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/18/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/06/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	16	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/03/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/31/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	NA	< 0.5	NA	NA	< 10	0.2 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/29/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 U	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/04/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/11/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/20/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/20/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/20/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/21/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	0.6	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/23/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/29/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/22/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/23/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/23/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/29/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/09/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/16/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	3	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/02/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/13/96	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/08/95	NA	< 0.5	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 UY	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5 U	ND
	08/17/95	NA	NA	NA	NA	< 10	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 2.3	< 0.5	< 0.5	ND

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**0.38**	**--**	**--**	**1,500**	**1**	**--**	**--**	**80**	**1.3**	**--**	**43**	**--**	**13**	**300**	**--**	**--**	**150**	**130**	**2.7**	**--**
231GW21 (shallow)	03/08/06	NA	< 1	NA	NA	< 20	**89**	< 2	< 1	< 1	< 2	< 8	4	NA	< 1	NA	NA	NA	3.4	1.8	< 1	ND
DUP0308061A	03/08/06	NA	< 1	NA	NA	< 20	**96**	< 2	< 1	< 1	< 2	< 8	4.3	NA	< 1	NA	NA	NA	3.5	1.9	< 1	ND
231GW21CL	03/08/06	NA	< 0.5 U	NA	NA	< 10 U	**110 D**	< 1 U UJ	< 5 U	2.7	< 1 U	< 4.5 U	4.8	NA	< 2 U	NA	NA	NA	3.7	3	< 0.5 U	ND
	03/31/05	NA	< 0.5	NA	NA	< 10	**100**	< 1	< 0.5	< 0.5	< 1	< 4	6.2	NA	< 0.5	NA	NA	NA	2.8	2.4	< 0.5	ND
DUP0331052D	03/31/05	NA	< 0.5	NA	NA	10 J-	**45**	< 1	< 0.5	< 0.5	< 1 UJ	< 4	3.0	NA	< 0.5	NA	NA	NA	1.3	1	< 0.5	ND
231GW21CL	03/31/05	NA	< 0.5 U	NA	NA	34	**63 D**	< 1 U	< 5 U	< 0.5 U	< 1 U	< 4.5 U	4.0	NA	< 2 U	NA	NA	NA	1.5	1.1	< 0.5 U	ND
	03/19/04	NA	< 0.7	NA	NA	< 14	**250**	< 1.4	< 0.7	< 0.7	< 1.4	< 5.7	15	NA	< 0.7	NA	NA	NA	3.2	1.8	< 0.7	ND
	08/19/03	NA	< 1	NA	NA	< 20	**460**	< 2	< 1	< 1	< 2	< 8	8.1	NA	< 1	NA	NA	NA	4	5.5	< 1	ND
DUP0819031B	08/19/03	NA	< 1.7	NA	NA	< 33	**470**	< 3.3 UJ	< 1.7	< 1.7	< 3.3	< 13	7.4	NA	< 1.7	NA	NA	NA	3.6	7.5	< 1.7	ND
	03/14/03	NA	< 1	NA	NA	< 20	**320**	< 2	< 1	< 1	< 2	< 8	15	NA	< 1	NA	NA	NA	3.1	2.7	< 1	ND
	12/06/02	NA	< 1.7	NA	NA	< 33 UJ	**400**	< 3.3	< 1.7	< 1.7	< 3.3	< 13	12	NA	< 1.7	NA	NA	NA	3.6	1.8	< 1.7	ND
DUP1206021A	12/06/02	NA	< 1.3	NA	NA	< 25 UJ	**420**	< 2.5	< 1.3	< 1.3	< 2.5	< 10	12	NA	< 1.3	NA	NA	NA	3.9	2	< 1.3	ND
	09/04/02	NA	< 2.5	NA	NA	< 50	**530**	< 5	< 2.5	< 2.5	< 5	< 20	11	NA	< 2.5	NA	NA	NA	5.6	3.3	< 2.5	ND
	06/04/02	NA	< 1.7	NA	NA	< 33 UJ	**430**	< 3.3	< 1.7	< 1.7	< 3.3	< 13	9.4	NA	< 1.7	NA	NA	NA	3.5	< 1.7	< 1.7	ND
DUP0604023A	06/04/02	NA	< 1.7	NA	NA	< 33 UJ	**470**	< 3.3	< 1.7	< 1.7	< 3.3	< 13	9.8	NA	< 1.7	NA	NA	NA	3.4	< 1.7	< 1.7	ND
	03/08/02	NA	< 0.5	NA	NA	< 10	**130**	< 1	< 0.5	< 0.5	< 1	< 4	6.7	NA	< 0.5	NA	NA	NA	1.5	1.1	< 0.5	ND
	11/29/01	NA	< 0.8	NA	NA	< 17	**270**	< 1.7	< 0.8	< 0.8	< 1.7	< 6.7	10	NA	< 0.8	NA	NA	NA	2	1	< 0.8	ND
	09/06/01	NA	< 3.6	NA	NA	< 71	**1,100**	< 7.1	< 3.6	< 3.6	< 7.1	< 29	28	NA	< 3.6	NA	NA	NA	4.8	< 3.6	< 3.6	ND
	05/14/01	< 4.2	NA	< 4.2	14	< 83 UJ	**1,100**	< 8.3 UJ	< 4.2	< 4.2	< 8.3	< 42	33	130	< 4.2 UJ	5.2	31	310	4.6	< 4.2	< 4.2	ND
	06/17/99	NA	**60**	NA	NA	NA	**2,000**	< 50	< 500	< 100	< 50	< 450 Y	**63**	NA	NA	NA	NA	NA	< 50	< 50	< 50	ND
	04/20/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/20/99	NA	< 25	NA	NA	NA	**840**	< 25	< 250	< 25	< 25	< 220 Y	< 25	NA	NA	NA	NA	NA	< 25	< 25	< 25	ND
	10/20/98	NA	**84**	NA	NA	NA	**2,600**	< 62	< 620	< 62	< 62	< 560 Y	**120**	NA	NA	NA	NA	NA	< 62	< 62	< 62	ND
	07/23/98	NA	**81**	NA	NA	NA	**3,000**	< 50	< 500	< 50	< 50	< 450 Y	< 50	NA	NA	NA	NA	NA	< 50	**160**	< 50	ND
	05/01/98	NA	**89**	NA	NA	NA	**2,400**	< 50	< 500	< 50	< 50	< 450 Y	**340**	NA	NA	NA	NA	NA	< 50	< 50	< 50	ND
	01/28/98	NA	< 50	NA	NA	NA	**2,000**	< 50	< 500	< 50	< 50	< 450 Y	**310**	NA	NA	NA	NA	NA	< 50	< 50	< 50	ND
	10/27/97	NA	< 50	NA	NA	NA	**2,400**	< 50	< 500	< 50	< 50	< 450 Y	**160**	NA	NA	NA	NA	NA	< 50	< 50	< 50	ND
	07/24/97	NA	< 120	NA	NA	NA	**3,900**	< 120	< 1,200	< 120	< 120	< 1,100 Y	**400**	NA	NA	NA	NA	NA	< 120	< 120	< 120	ND
	04/24/97	NA	< 120	NA	NA	NA	**4,800**	< 120	< 1,200	< 120	< 120	< 1,100 Y	**780**	NA	NA	NA	NA	NA	< 120	< 120	< 120	ND
	01/30/97	NA	< 0.5	NA	NA	NA	**2,900**	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	**250**	NA	NA	NA	NA	NA	6.6	43.6	< 0.5	ND
	10/11/96	NA	NA	NA	NA	< 200 R	**6,200**	< 10	< 100	< 10	< 10	< 90 Y	**970**	NA	NA	NA	NA	NA	17	130	< 10	ND
	07/17/96	NA	NA	NA	NA	< 2,500 R	**6,200**	< 120	< 1,200	< 120	< 120	< 1,100 Y	**890**	NA	NA	NA	NA	NA	< 120	**180**	< 120	ND
	05/06/96	NA	NA	NA	NA	< 2,500 R	**4,700**	< 120	< 1,200	< 120	< 120	< 1,100 Y	**1,200**	NA	NA	NA	NA	NA	< 120	**450**	< 120	ND
	02/12/96	NA	NA	NA	NA	< 1,000 R	**2,000**	< 50	< 500	< 50	< 50	< 450 Y	**600**	NA	NA	NA	NA	NA	< 50	**350**	< 50	ND
	11/10/95	NA	< 3	NA	NA	< 50	**5,100**	< 3	< 30	< 3	< 3	< 18 UY	**1,700**	NA	NA	NA	NA	NA	20	**960**	< 3 U	ND
	08/16/95	NA	NA	NA	NA	< 2,500 R	**6,100**	< 120	< 1,200	< 120	< 120	< 1,100 Y	**2,200**	NA	NA	NA	NA	NA	< 120	**1,200**	< 120	ND
	04/24/95	NA	NA	NA	NA	< 1,200 R	**4,100**	< 62	< 620	< 62	< 62	< 560 Y	**990**	NA	NA	NA	NA	NA	< 62	**810**	< 62	ND
231GW22 (shallow)	03/09/06	NA	< 31	NA	NA	< 630	**4,400**	< 63	< 31	< 31	< 63	< 250	**230**	NA	< 31	NA	NA	NA	60	**550**	< 31	ND
DUP0309061A	03/09/06	NA	< 31	NA	NA	< 630	**4,300**	< 63	< 31	< 31	< 63	< 250	**180**	NA	< 31	NA	NA	NA	49	**400**	< 31	ND
	03/23/05	NA	< 31	NA	NA	< 630	**4,200**	< 63	< 31	< 31	< 63	< 250	**210**	NA	< 31	NA	NA	NA	75	**480**	< 31	ND
DUP0323052A	03/23/05	NA	< 36	NA	NA	< 710	**4,300**	< 71	< 36	< 36	< 71	< 290	**220**	NA	< 36	NA	NA	NA	74	**510**	< 36	ND
	03/19/04	NA	< 13	NA	NA	< 250	**5,600**	< 25	< 13	< 13	< 25	< 100	**570**	NA	< 13	NA	NA	NA	260	**1,400**	< 13	ND
DUP0319041A	03/19/04	NA	< 20	NA	NA	< 400	**5,200**	< 40	< 20	< 20	< 40	< 160	**530**	NA	< 20	NA	NA	NA	280	**1,300**	< 20	ND
231GW22CL	03/19/04	NA	< 100	NA	NA	< 2,000 R	**5,300**	< 200	< 1,000	< 100	< 100	< 100	**580**	NA	< 100	NA	NA	NA	250	**1,600**	160	ND
	08/19/03	NA	< 17	NA	NA	< 330	**4,800**	< 33	< 17	< 17	**< 33**	< 130	**200**	NA	< 17	NA	NA	NA	140	**890**	< 17	ND
DUP0819031A	08/19/03	NA	< 17	NA	NA	< 330	**4,300**	< 33 UJ	< 17	< 17	**< 33**	< 130	**160**	NA	< 17	NA	NA	NA	120	**760**	< 17	ND
231GW22CL	08/19/03	NA	< 100	NA	NA	< 2,000 R	**4,600**	< 200	< 1,000	< 100	< 100	< 100	**200**	NA	< 100	NA	NA	NA	140	**860**	< 100	ND
	03/17/03	NA	< 8.3	NA	NA	< 170 UJ	**3,900**	< 17	< 8.3	< 8.3	< 17	< 67	**370**	NA	< 8.3	NA	NA	NA	150	**1,100**	< 8.3	ND
DUP0317031A	03/17/03	NA	< 17	NA	NA	< 330	**4,000**	< 100	< 17	< 17	< 33	< 130	**340**	NA	< 17	NA	NA	NA	**160**	**1,000**	< 17	ND
231GW22CL	03/17/03	NA	< 50	NA	NA	< 1,000	**3,800**	< 33	< 500	< 50	< 50	< 50	**350**	NA	< 50	NA	NA	NA	**170**	**1,100**	< 50	ND

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**0.38**	**--**	**--**	**1,500**	**1**	**--**	**--**	**80**	**1.3**	**--**	**43**	**--**	**13**	**300**	**--**	**--**	**150**	**130**	**2.7**	**--**
231GW22	12/06/02	NA	< 3.6	NA	NA	< 71 UJ	**1,000**	< 7.1	< 3.6	< 3.6	< 7.1	< 29	16	NA	< 3.6	NA	NA	NA	6.3	5.9	< 3.6	ND
(shallow)	09/04/02	NA	< 6.3	NA	NA	< 130	**1,800**	< 40	< 6.3	< 6.3	< 13	< 50	**71**	NA	< 6.3	NA	NA	NA	13	16	7.9	ND
DUP0904021A	09/04/02	NA	< 4.2	NA	NA	< 83 UJ	**2,000**	< 13	< 4.2	< 4.2	< 8.3	< 33	**85**	NA	< 4.2	NA	NA	NA	12	15	< 4.2	ND
231GW22CL	09/04/02	NA	< 20	NA	NA	< 2,000	**2,300**	< 8.3	< 200 UJ	9.1 J	< 40	63 J	**140**	NA	< 200 UJ	NA	NA	NA	18 J	30 J	< 20	ND
	06/05/02	NA	< 7.1	NA	NA	< 140 UJ	**2,000**	< 14	< 7.1	< 7.1	< 14	< 57	**82**	NA	< 7.1	NA	NA	NA	22	41	< 7.1	ND
DUP0605023B	06/05/02	NA	< 7.1	NA	NA	< 140 UJ	**1,900**	< 14	< 7.1	< 7.1	< 14	< 57	**85**	NA	< 7.1	NA	NA	NA	23	42	< 7.1	ND
	03/08/02	NA	< 7.1	NA	NA	< 140	**2,500**	< 40	< 7.1	< 7.1	< 14	< 57	**430**	NA	< 7.1	NA	NA	NA	**240**	**830**	< 7.1	ND
DUP0308023B	03/08/02	NA	< 8.3	NA	NA	< 170 UJ	**2,700**	< 14	< 8.3	< 8.3	< 17	< 67	**420**	NA	< 8.3	NA	NA	NA	**220**	**750**	< 8.3	ND
231GW22CL	03/08/02	170	< 20	45	< 40	66 J,J+	**2,900**	< 17 UJ	< 200	16 J	< 40	13 J,J	**500**	65	< 200	130 J	< 40	140	**270**	**1,000 J+**	< 20	ND
	12/04/01	NA	< 8.3	NA	NA	< 170 UJ	**2,000**	< 17	< 8.3	< 8.3	< 17	< 67	**240**	NA	< 8.3	NA	NA	NA	95	**269**	< 8.3	ND
DUP1204013A	12/04/01	NA	< 7.1	NA	NA	< 140 UJ	**2,200**	< 14	< 7.1	< 7.1	< 14	< 57	**260**	NA	< 7.1	NA	NA	NA	110	**298**	12	ND
	09/04/01	NA	< 13	NA	NA	< 250	**3,600**	< 25	< 13	< 13	< 25	< 100	**400**	NA	< 13	NA	NA	NA	57	**156**	< 13	ND
	05/14/01	45	<20	23	< 20	< 400	**5,900**	< 40	< 20	< 20	< 40	< 200	**390**	63	< 20	260	< 20	180	45	**160**	< 20	ND
DUP0514011A	05/14/01	48	<20	25	< 20	< 400	**5,800**	< 40	< 20	< 20	< 40	< 200	**410**	64	NA	250	21	180	43	**170**	< 20	ND
	04/21/99	NA	**170**	NA	NA	NA	**4,300**	< 100	< 1,000	< 200	< 100	< 900 Y	**710**	NA	NA	NA	NA	NA	**340**	**1,410**	< 100	ND
	01/21/99	NA	< 120	NA	NA	NA	**5,200**	< 120	< 1,200	< 120	< 120	< 1,100 Y	**1,100**	NA	NA	NA	NA	NA	**740**	**3,330**	< 120	ND
	12/02/98	NA	**140**	NA	NA	NA	**4,300**	< 120	< 1,200	< 120	< 120	< 1,100 Y	**710**	NA	NA	NA	NA	NA	**550**	**2,060**	< 120	ND
	07/22/98	NA	**120**	NA	NA	NA	**4,400**	< 62	< 620	< 62	< 62	< 560 Y	**770**	NA	NA	NA	NA	NA	**550**	**2,790**	< 62	ND
	04/27/98	NA	**140**	NA	NA	NA	**5,100**	< 120	< 1,200	< 120	< 120	< 1,100 Y	**980**	NA	NA	NA	NA	NA	**450**	**4,440**	< 120	ND
	01/29/98	NA	**190**	NA	NA	NA	**5,100**	< 120	< 1,200	< 120	< 120	< 1,100 Y	**1,000**	NA	NA	NA	NA	NA	**1,800**	**5,470**	< 120	ND
	10/28/97	NA	**100**	NA	NA	NA	**3,300**	< 50	< 500	< 50	< 50	< 450 Y	**840**	NA	NA	NA	NA	NA	**380**	**4,140**	< 50	ND
	07/28/97	NA	< 120	NA	NA	NA	**3,400**	< 120	< 1,200	< 120	< 120	< 1,100 Y	**910**	NA	NA	NA	NA	NA	**530**	**4,630**	< 120	ND
	04/28/97	NA	**130**	NA	NA	NA	**4,200**	< 120	< 1,200	< 120	< 120	< 1,100 Y	**880**	NA	NA	NA	NA	NA	**1,300**	**6,900**	< 120	ND
231GW23	03/15/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
(shallow)	04/05/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/18/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/17/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/05/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	3.9	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/03/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/31/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/29/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/04/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/14/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/20/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/20/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/02/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/23/98	NA	< 0.5	NA	NA	NA	**4.4**	< 0.5	< 5	< 0.5	< 0.59	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	1.3	< 0.5	ND
	04/28/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.65	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/02/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/23/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/29/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/29/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
231GW24	03/16/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
(shallow)	04/05/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/17/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/05/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/30/02	NA	NA [3]	NA	NA	NA [3]	< 0.5	NA [3]	NA [3]	NA [3]	NA [3]	NA [3]	< 0.5	NA	2.6	NA	NA	NA	< 0.5	< 0.5	NA [3]	ND

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**0.38**	**--**	**--**	**1,500**	**1**	**--**	**--**	**80**	**1.3**	**--**	**43**	**--**	**13**	**300**	**--**	**--**	**150**	**130**	**2.7**	**--**
231GW24 (shallow)	05/30/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/06/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/29/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/29/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/09/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/19/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/20/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/19/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/20/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/22/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/03/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/29/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/30/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/30/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	0.56	< 0.5	ND
231GW25 (shallow)	03/15/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	04/06/05	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/18/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/17/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/05/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	5.9	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/03/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/31/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/29/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/04/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/14/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/19/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/21/99	NA	< 0.5	NA	NA	NA	**2**	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	0.67	< 0.5	ND
	10/19/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/20/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/22/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/03/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/29/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/30/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	1.6	< 0.5	ND
	04/30/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
231GW26 (intermediate)	03/16/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	04/06/05	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	1.4	< 1 UJ	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	0.1 J	< 1	< 0.5	1.8	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/15/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	1.6	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/18/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	2.6	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/06/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	6.9	2	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/04/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	1.9	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	06/03/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	1.4	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	NA	< 0.5	NA	NA	< 10	0.2 J	< 1	< 0.5	0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/29/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/04/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	0.6	< 0.5	< 0.5	ND
	05/10/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/21/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/21/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/21/98	NA	< 0.5	NA	NA	NA	0.6	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	0.64	< 0.5	ND
	07/22/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.65	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**0.38**	**--**	**--**	**1,500**	**1**	**--**	**--**	**80**	**1.3**	**--**	**43**	**--**	**13**	**300**	**--**	**--**	**150**	**130**	**2.7**	**--**
231GW26	04/27/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	0.61	0.94	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
(intermediate)	01/29/98	NA	< 0.5	NA	NA	NA	0.44	< 0.5	< 5	0.79	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	0.67	< 0.5	ND
	10/28/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	0.53	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/28/97	NA	< 0.5	NA	NA	NA	0.23	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/28/97	NA	< 0.5	NA	NA	NA	0.57	< 0.5	< 5	0.52	< 0.5	< 4.5 Y	0.72	NA	NA	NA	NA	NA	0.99	3.53	< 0.5	ND
231GW27	03/15/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	1.2 J+	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
(intermediate)	04/06/05	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	1.4	< 1 UJ	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/19/04	NA	< 0.5	NA	NA	< 10	0.1 J	< 1	< 0.5	1.7	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/15/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	1	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/18/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	1.2	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/10/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	0.8	< 1	< 4	< 0.5	NA	< 0.5 UJ	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/04/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	1	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	06/03/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/29/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 U	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/04/01	NA	<0.5	NA	NA	27 J-	<0.5	< 1	1.4	<0.5	<1	< 4	<0.5	NA	< 0.5	NA	NA	NA	<0.5	<0.5	0.8	ND
DUP0904012A	09/04/01	NA	<0.5	NA	NA	27 J-	<0.5	< 5	1.1	<0.5	<1	< 4	<0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
231GW27CL	09/04/01	NA	<0.5	NA	NA	<10	<0.5	< 1	< 0.5	<0.5	1.2	< 5	<0.5	NA	< 5	< 1	NA	NA	<0.5	<0.5	< 1.0	ND
	05/10/01	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0510011A	05/10/01	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 5	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
231GW27CL	05/10/01	< 1	< 1	< 1	< 1	< 50	< 1	< 1	< 5	< 1	< 1	< 5	< 1	< 1	< 5	< 1	< 1	< 1	NA	< 1	< 1	ND
	04/21/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/21/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/21/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	1.2	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/22/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	0.99	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/27/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	1.5	0.61	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/29/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	0.92	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/28/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	1.3	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/28/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	0.85	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/28/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	1.3	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
231GW28	03/15/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	2.4 J+	NA	NA	NA	< 0.5	< 1	< 0.5	ND
(intermediate)	04/06/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	12	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/15/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/17/03	NA	< 0.5	NA	NA	< 10	0.3 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	1.6	NA	NA	NA	0.7	< 0.5	< 0.5	ND
	12/06/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	2.3	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/03/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/31/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/04/01	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/04/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/09/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/13/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/11/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/02/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/23/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/28/98	NA	< 0.5	NA	NA	NA	0.23	< 0.5	< 5	< 0.5	0.6	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/02/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/27/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/29/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/29/97	NA	< 0.5	NA	NA	NA	0.42	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	0.69	< 0.5	ND

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**0.38**	**--**	**--**	**1,500**	**1**	**--**	**--**	**80**	**1.3**	**--**	**43**	**--**	**13**	**300**	**--**	**--**	**150**	**130**	**2.7**	**--**
231GW29	03/16/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
(intermediate)	04/06/05	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1 UJ	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/18/04	NA	< 0.5	NA	NA	< 10	0.1 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
DUP0318043B	03/18/04	NA	< 0.5	NA	NA	< 10	0.1 J	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
231GW29CL	03/18/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/15/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/18/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/06/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	1.3	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/03/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	06/03/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/07/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	11/29/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/04/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/11/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1 UJ	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/21/99	NA	< 0.5	NA	NA	NA	0.14	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/21/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/02/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/23/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	0.56	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/28/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	0.77	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/02/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/27/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/29/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/29/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
231GW30	03/09/06	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
(shallow)	03/22/05	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 1	< 0.5	ND
	03/19/04	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	08/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/14/03	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/06/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/04/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	06/04/02	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1.0	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	03/08/02	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	12/04/01	NA	< 0.5	NA	NA	< 10 UJ	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	09/04/01	NA	< 0.5	NA	NA	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	05/14/01	< 0.5	NA	< 0.5	< 0.5	< 10	< 0.5	< 1	< 0.5	< 0.5	< 1	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	04/19/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 1	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	01/19/99	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/19/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	07/20/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/22/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	02/03/98	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	10/29/97	NA	< 0.5	NA	NA	NA	**8.5**	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	1.4	NA	NA	NA	NA	NA	1.5	6.5	< 0.5	ND
	07/30/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
	04/30/97	NA	< 0.5	NA	NA	NA	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 4.5 Y	< 0.5	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	ND
231PZ01	03/14/06	NA	< 31	NA	NA	< 630	**4,500**	< 63 UJ	< 31	< 31	< 63	< 250	**310**	NA	< 31	NA	NA	NA	< 31	< 63	< 31	ND
(shallow)	04/04/05	NA	< 25	NA	NA	< 500	**4,600**	< 50	< 25	< 25	< 50	< 200	**150**	NA	< 25	NA	NA	NA	26	< 50	< 25	ND
	03/19/04	NA	< 20	NA	NA	< 400	**5,800**	< 40	< 20	< 20	< 40	< 160	**410**	NA	< 20	NA	NA	NA	37	72	< 20	ND
	08/19/03	NA	< 17	NA	NA	< 330	**6,600**	< 33	< 17	< 17	< 33	< 130	**470**	NA	< 17	NA	NA	NA	31	110	< 17	ND
	03/17/03	NA	< 17	NA	NA	< 330	**6,500**	< 33	< 17	< 17	< 33	< 130	**600**	NA	< 17	NA	NA	NA	42	**140**	< 17	ND
	12/09/02	NA	< 13	NA	NA	< 250	**6,800**	< 25	< 13	< 13	< 25	< 100	**420**	NA	< 13 UJ	NA	NA	NA	32	72	< 13	ND
	09/05/02	NA	< 20	NA	NA	< 400	**6,000**	< 40	< 20	< 20	< 40	< 160	**570**	NA	< 20	NA	NA	NA	37	130	< 20	ND
	06/05/02	NA	< 31	NA	NA	< 630 UJ	**7,100**	< 63	41	< 31	< 63	< 250	**490**	NA	< 31	NA	NA	NA	39	**140**	< 31	ND

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**0.38**	**--**	**--**	**1,500**	**1**	**--**	**--**	**80**	**1.3**	**--**	**43**	**--**	**13**	**300**	**--**	**--**	**150**	**130**	**2.7**	**--**
231PZ01 (shallow)	03/08/02	NA	< 25	NA	NA	< 500 UJ	**8,000**	< 50 UJ	< 25	< 25	< 50	< 200	**900**	NA	< 25	NA	NA	NA	53	**330**	< 25	ND
	11/30/01	NA	< 25	NA	NA	< 500	**5,300**	< 50	< 25	< 25	< 50	< 200	**590**	NA	< 25	NA	NA	NA	35	**220**	< 25	ND
	09/06/01	NA	< 25	NA	NA	< 500 UJ	**6,900**	< 50 UJ	< 25	< 25	< 50 UJ	< 200	**560**	NA	< 25	NA	NA	NA	39	**220**	< 25	ND
	05/15/01	71	NA	55	< 17	< 330 UJ	**4,400**	< 33 UJ	< 17	< 17	< 33	< 170	**510**	53	< 17 UJ	**510**	27	170	30	**260**	< 17	ND
	04/14/99	NA	**210**	NA	NA	NA	**5,600**	< 100	< 1,000	< 200	< 100	< 900 Y	**1,900**	NA	NA	NA	NA	NA	< 100	**1,200**	< 100	ND
	01/12/99	NA	**330**	NA	NA	NA	**11,000**	< 250	< 2,500	< 250	< 250	< 2,200 Y	**2,200**	NA	NA	NA	NA	NA	< 250	**1,800**	< 250	ND
	10/13/98	NA	**280**	NA	NA	NA	**8,500**	< 250	< 2,500	< 250	< 250	< 2,200 Y	**1,800**	NA	NA	NA	NA	NA	< 250	**1,800**	< 250	ND
	07/14/98	NA	**260**	NA	NA	NA	**8,800**	< 120	< 1,200	< 120	< 120	< 1,100 Y	**1,900**	NA	NA	NA	NA	NA	**830**	**5,180**	< 120	ND
	04/30/98	NA	**260**	NA	NA	NA	**8,500**	< 120	< 1,200	< 120	< 120	< 1,100 Y	**3,100**	NA	NA	NA	NA	NA	**1,700**	**9,300**	< 120	ND
	02/03/98	NA	< 250	NA	NA	NA	**5,900**	< 250	< 2,500	< 250	< 250	< 2,200 Y	**4,100**	NA	NA	NA	NA	NA	**1,700**	**13,600**	< 250	ND
231PZ02 (shallow)	03/10/06	NA	< 0.5	NA	NA	< 10	**30**	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	3.3	3.1	< 0.5	ND
	04/04/05	NA	< 0.5	NA	NA	< 10	**19**	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	3.5	2.8	< 0.5	ND
	03/19/04	NA	< 0.5	NA	NA	< 10	**23**	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	3.8	3.6	< 0.5	ND
	08/19/03	NA	< 0.5	NA	NA	< 10	**290**	< 1	< 0.5	< 0.5	< 1	< 4	1.7	NA	< 0.5	NA	NA	NA	3.1	3.9	< 0.5	ND
	03/17/03	NA	< 0.5	NA	NA	< 10 UJ	**46**	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	3.2	2.1	< 0.5	ND
	12/09/02	NA	< 1.7	NA	NA	< 33	**650**	< 3.3	< 1.7	< 1.7	< 3.3	< 13	< 1.7	NA	< 1.7 UJ	NA	NA	NA	7	3	< 1.7	ND
	09/05/02	NA	< 0.8	NA	NA	< 17	**210**	< 1.7	< 0.8	< 0.8	< 1.7	< 6.7	< 0.8	NA	< 0.8	NA	NA	NA	2.5	1.7	< 0.8	ND
	06/05/02	NA	< 1.3	NA	NA	< 25 UJ	**390**	< 2.5	< 1.3	< 1.3	< 2.5	< 10	2.0	NA	< 1.3	NA	NA	NA	3.8	3.6	< 1.3	ND
	03/08/02	NA	< 0.5	NA	NA	< 10	**50**	< 1	< 0.5	< 0.5	< 1	< 4	< 0.5	NA	< 0.5	NA	NA	NA	3.8	3.7	< 0.5	ND
	11/30/01	NA	< 1.3	NA	NA	< 25	**300**	< 2.5	< 1.3	< 1.3	< 2.5	< 10	2.5	NA	< 1.3	NA	NA	NA	3.9	3.4	1.3	ND
	09/06/01	NA	< 1.3	NA	NA	< 25 UJ	**290**	< 2.5 UJ	< 1.3	< 1.3	< 2.5 UJ	< 10	< 1.3	NA	< 1.3	NA	NA	NA	3.6	2.9	< 1.3	ND
	05/15/01	< 0.6	NA	0.8	0.8	22 J-	**150**	< 1.3 UJ	< 0.6	1.2	< 1.3	< 6.3	< 0.6	5.2	< 0.6 UJ	< 0.6	0.9	7.4	2.5	4.4	< 0.6	ND
	04/14/99	NA	**11**	NA	NA	NA	**280**	< 5	< 50	< 10	< 5	< 45 Y	< 5	NA	NA	NA	NA	NA	< 5	< 5	< 5	ND
	01/12/99	NA	**11**	NA	NA	NA	**340**	< 5	< 50	< 5	< 5	< 45 Y	< 5	NA	NA	NA	NA	NA	< 5	< 5	< 5	ND
	10/13/98	NA	**17**	NA	NA	NA	**460**	< 12	< 120	< 12	< 12	< 110 Y	< 12	NA	NA	NA	NA	NA	< 12	< 12	< 12	ND
	07/14/98	NA	< 25	NA	NA	NA	**500**	< 25	< 250	< 25	< 25	< 220 Y	< 25	NA	NA	NA	NA	NA	< 25	< 25	< 25	ND
	04/30/98	NA	**18**	NA	NA	NA	**650**	< 12	< 120	< 12	< 12	< 110 Y	< 12	NA	NA	NA	NA	NA	< 12	< 12	< 12	ND
	02/03/98	NA	**22**	NA	NA	NA	**810**	< 12	< 120	< 12	< 12	< 110 Y	< 12	NA	NA	NA	NA	NA	< 12	42	< 12	ND
231PZ03 (shallow)	03/14/06	NA	< 0.5	NA	NA	< 10	**280**	< 1 UJ	< 0.5	< 0.5	< 1	< 4	5.4	NA	< 0.5	NA	NA	NA	6.9	3	< 0.5	ND
	04/04/05	NA	< 3.1	NA	NA	< 63	**370**	< 6.3	< 3.1	< 3.1	< 6.3	< 25	3.7	NA	< 3.1	NA	NA	NA	5.4	< 6.3	< 3.1	ND
	03/19/04	NA	< 2	NA	NA	< 40	**400**	< 4	< 2	< 2	< 4	< 16	6.4	NA	< 2	NA	NA	NA	5.8	< 2	< 2	ND
	08/21/03	NA	< 0.5	NA	NA	< 10	**26**	< 1	< 0.5	< 0.5	< 1	< 4	1.5	NA	< 0.5	NA	NA	NA	4.1	2.6	< 0.5	ND
	03/17/03	NA	< 0.5	NA	NA	< 10 UJ	**47**	< 1	1.1	< 0.5	< 1	< 4	1.5	NA	< 0.5	NA	NA	NA	2.4	< 0.5	< 0.5	ND
	12/06/02	NA	< 0.5	NA	NA	< 10 UJ	**21**	< 1	< 0.5	< 0.5	< 1	< 4	2.7	NA	< 0.5	NA	NA	NA	3.7	2.9	< 0.5	ND
	09/04/02	NA	< 0.5	NA	NA	< 10	**57**	< 1	< 0.5	< 0.5	< 1	< 4	1.9	NA	< 0.5	NA	NA	NA	5.1	2.7	< 0.5	ND
	06/06/02	NA	< 1.0	NA	NA	< 20 UJ	**250**	< 2 UJ	< 1	< 1	< 2.0	< 8	2.2	NA	< 1.0	NA	NA	NA	3	< 1	< 1.0	ND
	03/11/02	NA	< 1	NA	NA	< 20 UJ	**350**	< 2 UJ	< 1	< 1	< 2	< 8	2.9	NA	< 1	NA	NA	NA	3.2	1.4	< 1	ND
	11/30/01	NA	< 0.5	NA	NA	< 10 UJ	**21**	< 1	< 0.5	< 0.5	< 1	< 4	2.1	NA	< 0.5	NA	NA	NA	3.5	2.6	< 0.5	ND
	09/06/01	NA	< 0.8	NA	NA	< 17	**60**	< 1.7	< 0.8	< 0.8	< 1.7	< 6.7	1.8	NA	< 0.8	NA	NA	NA	3.9	1.6	< 0.8	ND
	05/15/01	< 1	NA	< 1	8.9	< 20 UJ	**240**	< 2 UJ	< 1	< 1	< 2	< 10	11	45	< 1 UJ	5.5	19	95	2.8	2	< 1	ND
	04/14/99	NA	< 25	NA	NA	NA	**620**	< 25	< 250	< 50	< 25	< 220 Y	31	NA	NA	NA	NA	NA	< 25	< 25	< 25	ND
	01/12/99	NA	< 12	NA	NA	NA	**240**	< 12	< 120	< 12	< 12	< 110 Y	23	NA	NA	NA	NA	NA	< 12	< 12	< 12	ND
	10/13/98	NA	**5.5**	NA	NA	NA	**140**	< 5	< 50	< 5	< 5	< 45 Y	8.5	NA	NA	NA	NA	NA	< 5	< 5	< 5	ND
	07/14/98	NA	**38**	NA	NA	NA	**1,300**	< 25	< 250	< 25	< 25	< 220 Y	< 25	NA	NA	NA	NA	NA	< 25	< 25	< 25	ND
	04/30/98	NA	**64**	NA	NA	NA	**2,200**	< 50	< 500	< 50	< 50	< 450 Y	**370**	NA	NA	NA	NA	NA	< 50	87	< 50	ND
	02/03/98	NA	< 25	NA	NA	NA	**1,600**	< 25	< 250	< 25	< 25	< 220 Y	**480**	NA	NA	NA	NA	NA	< 25	**280**	< 25	ND
231PZ04 (shallow)	03/14/06	NA	< 3.6	NA	NA	< 71	**440**	< 7.1 UJ	< 3.6	< 3.6	< 7.1	< 29	19	NA	< 3.6	NA	NA	NA	6.4	< 7.1	< 3.6	ND
	04/04/05	NA	< 4.2	NA	NA	< 83	**750**	< 8.3	< 4.2	< 4.2	< 8.3	< 33	33	NA	< 4.2	NA	NA	NA	6.1	< 8.3	< 4.2	ND
	03/19/04	NA	< 3.1	NA	NA	< 63	**710**	< 6.3	< 3.1	< 3.1	< 6.3	< 25	26	NA	< 3.1	NA	NA	NA	6.1	< 3.1	< 3.1	ND
	08/21/03	NA	< 0.5	NA	NA	< 10	**180**	0.5 J	< 0.5	< 0.5	< 1	< 4	9.2	NA	< 0.5	NA	NA	NA	4.4	2.6	< 0.5	ND
	03/17/03	NA	< 2.5	NA	NA	< 50	**740**	< 5	< 2.5	< 2.5	< 5	< 20	35	NA	< 2.5	NA	NA	NA	3.2	< 2.5	< 2.5	ND
	12/06/02	NA	< 1	NA	NA	< 20 UJ	**350**	< 2	< 1	< 1	< 2	< 8	19	NA	< 1	NA	NA	NA	3.8	1.6	< 1	ND
	09/04/02	NA	< 2	NA	NA	< 40	**490**	< 4	< 2	< 2	< 4	< 16	19	NA	< 2	NA	NA	NA	4.5	< 2	< 2	ND

Table A-10-3
Results of VOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	1,2,4-TMB	1,2-DCA	1,3,5-TMB	2-Phenyl-butane	Acetone	Benzene	Bromo-methane	Carbon Disulfide	Chloro-form	Chloro-methane	Dichloro-methane	Ethyl-benzene	Isopropyl-benzene	MTBE	Naph-thalene	N-Butyl-Benzene	Propyl-benzene	Toluene	Total Xylenes	TCE	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8020/ SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels[2]		**--**	**0.38**	**--**	**--**	**1,500**	**1**	**--**	**--**	**80**	**1.3**	**--**	**43**	**--**	**13**	**300**	**--**	**--**	**150**	**130**	**2.7**	**--**
231PZ04 (shallow)	06/06/02	NA	< 3.1	NA	NA	< 63 UJ	**830**	< 6.3 UJ	< 3.1	< 3.1	< 6.3	< 25	23	NA	< 3.1	NA	NA	NA	3.5	< 3.1	< 3.1	ND
	03/08/02	NA	< 3.1	NA	NA	< 63 UJ	**820**	< 6.3	< 3.1	< 3.1	< 6.3	< 25	20	NA	< 3.1	NA	NA	NA	3.6	< 3.1	< 3.1	ND
	11/30/01	NA	< 1.3	NA	NA	< 25	**320**	< 2.5 U	< 1.3	< 1.3	< 2.5	< 10	12	NA	< 1.3	NA	NA	NA	3.2	1.5	< 1.3	ND
	09/06/01	NA	< 1	NA	NA	< 20	**660**	< 2	< 1	< 1	< 2	< 8	16	NA	< 1	NA	NA	NA	4.1	1.4	1.1	ND
	05/15/01	< 5	NA	5.9	12	< 100 UJ	**1,100**	< 10 UJ	< 5	< 5	< 10	< 50	24	65	< 5 UJ	100	26	150	< 5	< 5	< 5	ND
	04/14/99	NA	**65**	NA	NA	NA	**1,700**	< 25	< 250	< 50	< 25	< 220 Y	**540**	NA	NA	NA	NA	NA	< 25	< 25	< 25	ND
	01/11/99	NA	**27**	NA	NA	NA	**760**	< 12	< 120	< 12	< 12	< 110 Y	**610**	NA	NA	NA	NA	NA	< 12	< 12	< 12	ND
	10/12/98	NA	< 25	NA	NA	NA	**1,300**	< 25	< 250	< 25	< 25	< 220 Y	**780**	NA	NA	NA	NA	NA	< 25	< 25	< 25	ND
	07/13/98	NA	**43**	NA	NA	NA	**1,400**	< 25	< 250	< 25	< 25	< 220 Y	**490**	NA	NA	NA	NA	NA	< 25	130	35	ND
	04/30/98	NA	**84**	NA	NA	NA	**2,900**	< 50	< 500	< 50	< 50	< 450 Y	**1,300**	NA	NA	NA	NA	NA	< 50	**250**	< 50	ND
	02/04/98	NA	< 50	NA	NA	NA	**1,900**	< 50	< 500	< 50	< 50	< 450 Y	**1,300**	NA	NA	NA	NA	NA	< 50	**1,378**	< 50	ND

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - From Table 4 of the CAP.
3 - These analytes were mistakenly not marked on the chain-of-custody by the field team during this sampling event.
µg/L - micrograms per liter
NA - Not analyzed
ND - Not detected
VOC - Volatile organic compound
1,3,5-TMB - 1,3,5-trimethylbenzene
1,2,4-TMB - 1,2,4-trimethylbenzene
1,2-DCA - 1,2-dichloroethane
MTBE - methyl tertiary-butyl ether
TCE - trichloroethene
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.

Table 11 in the main report identifies current and historical data qualifiers.
Bold numbers - indicate concentrations which exceed cleanup levels.
-- Cleanup level not established.

Table A-10-4
Results of Dissolved Gas and TOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		(mg/L)	(mg/L)	(mg/L)	(mg/L)
207GW03 (intermediate)	03/16/06	NA	NA	NA	2.9
	04/12/05	< 0.005	< 0.005	9	3.6
	01/11/99	< 0.003	< 0.003	1.32 E	NA
	01/11/99	< 0.6	< 0.6	3.2	NA
	10/12/98	< 0.6	< 0.6	7.5	NA
	07/09/98	< 0.06 DU	< 0.06 DU	2.33 D	NA
	05/04/98	< 0.13 DU	< 0.13 DU	0.82 D	NA
	03/05/98	< 0.13 DU	< 0.13 DU	3.66 D	NA
231GW06 (intermediate)	03/15/06	NA	NA	NA	1.5
	04/04/05	< 0.005	< 0.005	0.026	1.4
	01/20/99	< 0.003	< 0.003	0.003	NA
	10/20/98	< 0.003	< 0.003	0.006	NA
	07/21/98	< 0.0005	< 0.0005	0.0019	NA
	04/23/98	< 0.0005	< 0.0005	0.005	NA
	01/27/98	< 0.0005	< 0.0005	0.0047	NA
	10/22/97	< 0.0005	< 0.0005	0.0108	NA
	07/23/97	< 0.0005	< 0.0005	0.0031	NA
	04/23/97	< 0.0005	< 0.0005	0.0068	NA
	01/29/97	< 0.5 DU	< 0.5 DU	1.8 D	NA
231GW09 (shallow) DUP1129052A	03/15/06	NA	NA	NA	0.88
	11/29/05	< 0.005	< 0.005	< 0.005	1.3
	11/29/05	< 0.005	< 0.005	< 0.005	0.99
	08/31/05	< 0.005	< 0.005	< 0.005	1.1
	06/01/05	< 0.005	< 0.005	< 0.005	1.2 J+
	04/04/05	< 0.005	< 0.005	< 0.005	1.3
	01/13/99	< 0.003	< 0.003	0.0075	NA
	10/14/98	< 0.003	< 0.003	0.0085	NA
	07/15/98	< 0.0005	< 0.0005	0.0046	NA
	04/20/98	< 0.0005	< 0.0005	0.002	NA
	01/28/98	< 0.0025 DU	< 0.0025 DU	0.0305 D	NA
	10/23/97	< 0.0005	< 0.0005	0.0025	NA
	07/24/97	< 0.0005	< 0.0005	0.0068	NA
	04/22/97	< 0.0005	< 0.0005	0.0093	NA
	01/28/97	< 0.0005	< 0.0005	0.015	NA
231GW10 (shallow)	03/09/06	NA	NA	NA	8.4
	03/22/05	< 0.005	< 0.005	13	8.9
	01/25/99	< 0.003	< 0.003	1.440 E	NA
	01/25/99	< 0.6	< 0.6	7.2	NA
	10/19/98	< 0.3	< 0.3	4.4	NA
	07/22/98	< 0.25 DU	< 0.25 DU	5.5 D	NA
	04/23/98	< 0.25 DU	< 0.25 DU	4.63 D	NA
	01/28/98	< 0.5 DU	< 0.5 DU	12.1 D	NA
	10/22/97	< 0.5 DU	< 0.5 DU	9.7 D	NA
	07/23/97	< 0.5 DU	< 0.5 DU	4.7 D	NA
	04/23/97	< 2.5 DU	< 2.5 DU	14.4 D	NA
	01/29/97	< 0.5 DU	< 0.5 DU	11.2 D	NA

Table A-10-4
Results of Dissolved Gas and TOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		(mg/L)	(mg/L)	(mg/L)	(mg/L)
231GW11 (shallow)	03/15/06	NA	NA	NA	2
	04/05/05	< 0.005	< 0.005	5.7	2.7
	01/11/99	< 0.003	< 0.003	0.779 E	NA
	01/11/99	< 0.3	< 0.3	0.87	NA
	10/12/98	< 0.3	< 0.3	1.5	NA
	07/13/98	< 0.25 DU	< 0.25 DU	1.16 D	NA
	04/21/98	< 0.13 DU	< 0.13 DU	1.25 D	NA
	01/26/98	< 0.25 DU	< 0.25 DU	3.97 D	NA
	10/21/97	< 0.25 DU	< 0.25 DU	4.78 D	NA
	07/21/97	< 0.25 DU	< 0.25 DU	3.12 D	NA
	04/21/97	< 0.5 DU	< 0.5 DU	2.3 D	NA
	01/28/97	< 0.5 DU	< 0.5 DU	3.2 D	NA
231GW13 (deep)	03/14/06	NA	NA	NA	3.7
	04/05/05	< 0.005	< 0.005	0.012	3.4
	01/14/99	< 0.003	< 0.003	< 0.003	NA
	10/15/98	< 0.003	< 0.003	0.0071	NA
	07/16/98	< 0.0005	< 0.0005	< 0.0005	NA
	04/21/98	< 0.0005	< 0.0005	0.0094	NA
	01/26/98	< 0.0005	< 0.0005	< 0.0085	NA
	10/20/97	< 0.0005	< 0.0005	0.0053	NA
	07/21/97	< 0.0005	< 0.0005	0.0017	NA
	04/21/97	< 0.0025 DU	< 0.0025 DU	0.0193 D	NA
	01/27/97	< 0.0005	< 0.0005	0.0064	NA
231GW15 (intermediate)	03/14/06	NA	NA	NA	1.5
	04/05/05	< 0.005	< 0.005	0.079	1.2
	01/14/99	< 0.003	< 0.003	0.068	NA
	01/14/99	< 0.006	< 0.006	0.067	NA
	10/15/98	< 0.003	< 0.003	< 0.003	NA
	07/16/98	< 0.0005	< 0.0005	< 0.0005	NA
	04/21/98	< 0.005 DU	< 0.005 DU	0.091 D	NA
	01/26/98	< 0.0025 DU	< 0.0025 DU	0.055 D	NA
	10/20/97	< 0.0005	< 0.0005	0.0025	NA
	07/21/97	< 0.005 DU	< 0.005 DU	0.057 D	NA
	04/21/97	< 0.005 DU	< 0.005 DU	0.049 D	NA
	01/27/97	< 0.0025 DU	< 0.0025 DU	0.0208 D	NA
231GW16 (shallow)	03/09/06	NA	NA	NA	8.1
	03/22/05	< 0.005	< 0.005	5.2	5
	01/14/99	< 0.003	< 0.003	1.610	NA
	01/14/99	< 0.6	< 0.6	8.7	NA
	10/15/98	< 0.6	< 0.6	3.6	NA
	07/16/98	< 0.13 DU	< 0.13 DU	0.94 D	NA
	04/21/98	< 0.025 DU	< 0.025 DU	0.549 D	NA
	01/26/98	< 0.25 DU	< 0.25 DU	3.53 D	NA
	10/20/97	< 0.13 DU	< 0.13 DU	3.33 D	NA
	07/21/97	< 0.25 DU	< 0.25 DU	3.45 D	NA
	04/24/97	< 2.5 DU	< 2.5 DU	9.7 D	NA
	01/30/97	< 0.5 DU	< 0.5 DU	6.5 D	NA

Table A-10-4
Results of Dissolved Gas and TOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		(mg/L)	(mg/L)	(mg/L)	(mg/L)
231GW17 (deep)	03/15/06	NA	NA	NA	0.74
	04/05/05	< 0.005	< 0.005	0.008	< 0.5
	01/13/99	< 0.003	< 0.003	0.0063	NA
	10/14/98	< 0.003	< 0.003	0.004	NA
	07/15/98	< 0.0005	< 0.0005	0.0034	NA
	04/20/98	< 0.0005	< 0.0005	< 0.0005	NA
	01/27/98	< 0.0025 DU	< 0.0025 DU	0.0254 D	NA
	10/21/97	< 0.0005	< 0.0005	0.0058	NA
	07/22/97	< 0.0005	< 0.0005	0.0013	NA
	04/22/97	< 0.005 DU	< 0.005 DU	0.022 D	NA
	01/28/97	< 0.0025 DU	< 0.0025 DU	0.0242 D	NA
231GW18 (intermediate)	03/15/06	NA	NA	NA	1.1
	04/05/05	< 0.005	< 0.005	0.04	0.65
	01/13/99	< 0.003	< 0.003	0.003	NA
	10/14/98	< 0.003	< 0.003	0.003	NA
	07/15/98	< 0.0005	< 0.0005	0.002	NA
	04/20/98	< 0.0005	< 0.0005	< 0.0005	NA
	01/27/98	< 0.0005	< 0.0005	0.0114	NA
	10/21/97	< 0.0005	< 0.0005	0.0011	NA
	07/22/97	< 0.25 DU	< 0.25 DU	2.38 D	NA
	04/22/97	< 0.0005	< 0.0005	0.0081	NA
	01/28/97	< 0.0005	< 0.0005	0.0031	NA
231GW19 (shallow)	03/16/06	NA	NA	NA	5.5
	04/05/05	< 0.005	< 0.005	2.4	3.9
	01/13/99	< 0.003	< 0.003	1.6	NA
	01/13/99	< 0.6	< 0.6	8.8	NA
	10/14/98	< 0.3	< 0.3	4.1	NA
	07/15/98	< 0.25 DU	< 0.25 DU	1.05 D	NA
	04/20/98	< 0.25 DU	< 0.25 DU	0.53 D	NA
	01/27/98	< 0.25 DU	< 0.25 DU	3.96 D	NA
	10/20/97	< 0.25 DU	< 0.25 DU	6.35 D	NA
	07/22/97	< 0.25 DU	< 0.25 DU	4.7 D	NA
	04/21/97	< 0.5 DU	< 0.5 DU	9.1 D	NA
	01/27/97	< 0.5 DU	< 0.5 DU	2.8 D	NA
231GW20 (deep)	03/15/06	NA	NA	NA	1.7
	04/06/05	< 0.005	< 0.005	< 0.005	1
	01/20/99	< 0.003	< 0.003	< 0.003	NA
	10/20/98	< 0.003	< 0.003	< 0.003	NA
	07/21/98	< 0.0005	< 0.0005	< 0.0014	NA
	04/23/98	< 0.0005	< 0.0005	< 0.0005	NA
	01/29/98	< 0.0025 DU	< 0.0025 DU	< 0.0285 D	NA
	10/22/97	< 0.0005	< 0.0005	0.0037	NA
	07/23/97	< 0.0005	< 0.0005	0.0007	NA
	04/23/97	< 0.0005	< 0.0005	0.0024	NA

Table A-10-4
Results of Dissolved Gas and TOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		(mg/L)	(mg/L)	(mg/L)	(mg/L)
231GW21 (shallow)	03/08/06	NA	NA	NA	9.1
DUP0308061A	03/08/06	NA	NA	NA	9.3
231GW21CL	03/08/06	NA	NA	NA	9.8
	03/31/05	0.005	< 0.005	8.3	29
DUP0331052D	03/31/05	< 0.005	< 0.005	8.5	28
231GW21CL	03/31/05	0.0042	0.002	5.3	32.7
	01/20/99	< 0.003	< 0.003	1.28	NA
	01/20/99	< 0.6	< 0.6	3.9	NA
	10/20/98	< 0.3	< 0.3	5.1	NA
	07/23/98	< 0.25 DU	< 0.25 DU	3.73 D	NA
	05/01/98	< 0.13 DU	< 0.13 DU	2.46 D	NA
	01/28/98	< 0.25 DU	< 0.25 DU	6.03 D	NA
	10/27/97	< 0.25 DU	< 0.25 DU	2.56 D	NA
	07/24/97	< 0.25 DU	< 0.25 DU	3.88 D	NA
	04/24/97	< 2.5 DU	< 2.5 DU	13.9 D	NA
	01/30/97	< 0.5 DU	< 0.5 DU	3.2 D	NA
231GW22 (shallow)	03/09/06	NA	NA	NA	27
DUP0309061A	03/09/06	NA	NA	NA	28
	03/23/05	< 0.005	< 0.005	12	25
DUP0323052A	03/23/05	< 0.005	< 0.005	11	25
	01/21/99	0.004	< 0.003	1.330 E	NA
	01/21/99	< 0.6	< 0.6	4.7	NA
	10/21/98	< 0.3	< 0.3	4.5	NA
	07/22/98	< 0.13 DU	< 0.13 DU	0.84 D	NA
	04/27/98	< 0.13 DU	< 0.13 DU	0.28 D	NA
	01/29/98	< 0.25 DU	< 0.25 DU	5.13 D	NA
	10/28/97	< 0.25 DU	< 0.25 DU	5.83 D	NA
	07/28/97	< 0.25 DU	< 0.25 DU	6.42 D	NA
	04/28/97	< 0.5 DU	< 0.5 DU	2.3 D	NA
231GW23 (shallow)	03/15/06	NA	NA	NA	8.2
	04/05/05	< 0.005	< 0.005	15	6.9
	01/20/99	< 0.003	< 0.003	1.57	NA
	01/20/99	< 1.5	< 1.5	12	NA
	10/22/98	< 0.3	< 0.3	2.5	NA
	07/23/98	< 0.25 DU	< 0.25 DU	6.02 D	NA
	04/28/98	< 0.25 DU	< 0.25 DU	7.05 D	NA
	02/02/98	< 0.5 DU	< 0.5 DU	8.3 D	NA
	10/23/97	< 0.5 DU	< 0.5 DU	8.3 D	NA
	07/29/97	< 0.25 DU	< 0.25 DU	7.75 D	NA
	04/29/97	< 0.5 DU	< 0.5 DU	10.2 D	NA
231GW24 (shallow)	03/16/06	NA	NA	NA	2.1
	04/05/05	< 0.005	< 0.005	0.88	1.9
	01/20/99	< 0.003	< 0.003	0.871	NA

Table A-10-4
Results of Dissolved Gas and TOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		(mg/L)	(mg/L)	(mg/L)	(mg/L)
231GW24 (shallow)	01/20/99	< 0.3	< 0.3	1.2	NA
	10/19/98	< 0.3	< 0.3	1.3	NA
	07/20/98	< 0.25 DU	< 0.25 DU	1.05 D	NA
	04/22/98	< 0.13 DU	< 0.13 DU	0.76 D	NA
	02/03/98	< 0.25 DU	< 0.25 DU	1.99 D	NA
	10/29/97	< 0.25 DU	< 0.25 DU	2.2 D	NA
	07/30/97	< 0.25 DU	< 0.25 DU	4.07 D	NA
	04/30/97	< 0.5 DU	< 0.5 DU	5.5 D	NA
231GW25 (shallow)	03/15/06	NA	NA	NA	11
	04/06/05	< 0.005	< 0.005	12	12
	01/21/99	< 0.003	< 0.003	1.37 E	NA
	01/21/99	< 0.6	< 0.6	5.6	NA
	10/19/98	< 0.6	< 0.6	5.6	NA
	07/20/98	< 0.13 DU	< 0.13 DU	3.38 D	NA
	04/22/98	< 0.25 DU	< 0.25 DU	2.45 D	NA
	02/03/98	< 0.25 DU	< 0.25 DU	3.67 D	NA
	10/29/97	< 0.5 DU	< 0.5 DU	8.5 D	NA
	07/30/97	< 2.5 DU	< 2.5 DU	8.3 D	NA
	04/30/97	< 0.5 DU	< 0.5 DU	2.8 D	NA
231GW26 (intermediate)	03/16/06	NA	NA	NA	1.5
	04/06/05	< 0.005	< 0.005	0.04	1.5
	01/21/99	< 0.003	< 0.003	< 0.003	NA
	10/21/98	< 0.003	< 0.003	< 0.003	NA
	07/22/98	< 0.0005	< 0.0005	0.0008	NA
	04/27/98	< 0.001 DU	< 0.001 DU	0.0097 D	NA
	01/29/98	< 0.0025 DU	< 0.0025 DU	0.0402 D	NA
	10/28/97	< 0.005 DU	< 0.005 DU	0.044 D	NA
	07/28/97	< 0.0005	< 0.0005	0.0006	NA
	04/28/97	< 0.005 DU	< 0.005 DU	0.031 D	NA
231GW27 (intermediate)	03/15/06	NA	NA	NA	1.2
	04/06/05	< 0.005	< 0.005	0.032	0.81
	01/21/99	< 0.003	< 0.003	< 0.003	NA
	10/21/98	0.005	0.005	0.0095	NA
	07/22/98	< 0.0005	< 0.0005	0.0063	NA
	04/27/98	< 0.0025 DU	< 0.0025 DU	0.0233 D	NA
	01/29/98	< 0.0025 DU	< 0.0025 DU	0.058 D	NA
	10/28/97	< 0.005 DU	< 0.005 DU	0.031 D	NA
	07/28/97	< 0.0005	< 0.0005	0.0011	NA
	04/28/97	< 0.0025 DU	< 0.0025 DU	0.0205 D	NA
231GW28 (intermediate)	03/15/06	NA	NA	NA	8.4
	04/06/05	< 0.005	< 0.005	4.7	7.8
	01/11/99	< 0.003	< 0.003	0.224 E	NA
	01/11/99	< 0.03	< 0.03	0.23	NA
	10/22/98	< 0.003	< 0.003	< 0.003	NA
	07/23/98	< 0.0005	< 0.0005	0.0081	NA

Table A-10-4
Results of Dissolved Gas and TOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		(mg/L)	(mg/L)	(mg/L)	(mg/L)
231GW28 (intermediate)	04/28/98	< 0.025 DU	< 0.025 DU	0.703 D	NA
	02/02/98	< 0.250 DU	< 0.250 DU	6.130 D	NA
	10/27/97	< 0.005 DU	< 0.005 DU	0.077 D	NA
	07/29/97	< 0.025 DU	< 0.025 DU	0.067 D	NA
	04/29/97	< 0.5 DU	< 0.5 DU	2.1 D	NA
231GW29 (intermediate)	03/16/06	NA	NA	NA	0.88
	04/06/05	< 0.005	< 0.005	0.009	0.74
	01/21/99	< 0.003	< 0.003	0.0065	NA
	10/22/98	< 0.003	< 0.003	< 0.003	NA
	07/23/98	< 0.0005	< 0.0005	0.0011	NA
	04/28/98	< 0.0005	< 0.0005	0.001	NA
	02/02/98	< 0.0025 DU	< 0.0025 DU	0.0286 D	NA
	10/27/97	< 0.0005	< 0.0005	0.0005	NA
	07/29/97	< 0.0005	< 0.0005	0.0009	NA
	04/29/97	< 0.005 DU	< 0.005 DU	0.013 D	NA
231GW30 (shallow)	03/09/06	NA	NA	NA	5.9
	03/22/05	< 0.005	< 0.005	4.6	4.8
	01/19/99	< 0.003	< 0.003	1.44 E	NA
	01/19/99	< 0.6	< 0.6	6.1	NA
	10/19/98	< 0.3	< 0.3	5.7	NA
	07/20/98	< 0.25 DU	< 0.25 DU	3.74 D	NA
	04/22/98	< 0.13 DU	< 0.13 DU	2.99 D	NA
	02/03/98	< 0.25 DU	< 0.25 DU	3.1 D	NA
	10/29/97	< 0.25 DU	< 0.25 DU	7.04 D	NA
	07/30/97	< 2.5 DU	< 2.5 DU	7.8 D	NA
	04/30/97	< 0.5 DU	< 0.5 DU	3.2 D	NA
231PZ01 (shallow)	03/14/06	NA	NA	NA	45
	04/04/05	< 0.005	< 0.005	12	58
	01/12/99	0.004	< 0.003	1.54	NA
	01/12/99	< 0.6	< 0.6	7.4	NA
	10/13/98	< 0.6	< 0.6	9	NA
	07/14/98	< 0.25 DU	< 0.25 DU	5.96 D	NA
	04/30/98	< 0.13 DU	< 0.13 DU	1.45 D	NA
	02/03/98	< 0.25 DU	< 0.25 DU	6.81 D	NA
231PZ02 (shallow)	03/10/06	NA	NA	NA	45
	04/04/05	< 0.005	< 0.005	4.8	36
	01/12/99	0.0083	< 0.003	1.61	NA
	01/12/99	< 0.6	< 0.6	7.6	NA
	10/13/98	< 0.6	< 0.6	4.9	NA
	07/14/98	< 0.25 DU	< 0.25 DU	1.25 D	NA
	04/30/98	< 0.13 DU	< 0.13 DU	1.91 D	NA
	02/03/98	< 0.25 DU	< 0.25 DU	7.92 D	NA

Table A-10-4
Results of Dissolved Gas and TOC Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		(mg/L)	(mg/L)	(mg/L)	(mg/L)
231PZ03 (shallow)	03/14/06	NA	NA	NA	12
	04/04/05	< 0.005	< 0.005	8.3	14
	01/12/99	0.003	0.003	1.42	NA
	01/12/99	< 0.6	< 0.6	4.4	NA
	10/13/98	< 0.6	< 0.6	5.6	NA
	07/14/98	< 0.25 DU	< 0.25 DU	3.8 D	NA
	04/30/98	< 0.25 DU	< 0.25 DU	5.51 D	NA
	02/03/98	< 0.5 DU	< 0.5 DU	10.4 D	NA
231PZ04 (shallow)	03/14/06	NA	NA	NA	14
	04/04/05	0.005	< 0.005	9.1	18
	01/11/99	< 0.003	< 0.003	1.31 E	NA
	01/11/99	< 0.6	< 0.6	3.4	NA
	10/12/98	< 0.6	< 0.6	4.6	NA
	07/13/98	< 0.13 DU	< 0.13 DU	2.14 D	NA
	04/30/98	< 0.25 DU	< 0.25 DU	4.35 D	NA
	02/04/98	< 0.25 DU	< 0.25 DU	2.82 D	NA

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Fourth Quarter 2004.
mg/L - milligrams per liter
TOC - Total Organic Carbon
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-10-5
Results of Arsenic Speciation Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Inorganic Arsenic (As)	Arsenite (As III)	Arsenate (As V) [1]	Percentage of As III	Percentage of As V
	Analytical Method	1632M	1632M	1632M	--	--
		(µg/L)	(µg/L)	(µg/L)	%	%
Cleanup Levels[2]		**10**	--	--	--	--
207GW03 (intermediate)	04/12/05	0.249	0.09	0.159	36	64
231GW06 (intermediate)	04/04/05	5.52	0.168	5.36	3	97
231GW09 (shallow)	08/31/05	0.405 J	< 0.025 JU	0.405 J	<1	>99
	06/01/05	0.371	< 0.025 U	0.371	<1	>99
	04/04/05	0.344	< 0.025 U	0.344	<1	>99
231GW10 (shallow)	03/22/05	**10.6**	9.57	1.04	90	10
231GW11 (shallow)	04/05/05	0.894 J	0.647 J	0.247 J	72	28
231GW13 (deep)	04/05/05	**30.2 J**	1.02 J	29.2 J	3	97
231GW15 (intermediate)	04/05/05	0.322 J	0.159 J	0.164 J	49	51
231GW16 (shallow)	03/22/05	0.112	0.104	0.008 B	93	7
231GW17 (deep)	04/05/05	0.818 J	< 0.025 U	0.818 J	<1	>99
231GW18 (intermediate)	04/05/05	1.25 J	0.011 JB	1.24 J	1	99
231GW19 (shallow)	04/05/05	9.14 J	6.08 J	3.06 J	67	33
231GW20 (deep)	04/06/05	0.809	< 0.025 U	0.809	<1	>99
231GW21 (shallow)	03/31/05	**18.2**	16.6	1.68	91	9
DUP0331052D	03/31/05	**19.1**	15.9	3.15	83	17
231GW22 (shallow)	03/23/05	**23.6**	22.8	0.722 B	97	3
DUP0323052A	03/23/05	**26.2**	27.2	< 0.28 U	96	4
231GW23 (shallow)	04/05/05	5.66 J	4.01 J	1.65 J	71	29
231GW24 (shallow)	04/05/05	4.19 J	2.5 J	1.69 J	60	40
231GW25 (shallow)	04/06/05	**14.2**	10	4.11	71	29

Table A-10-5
Results of Arsenic Speciation Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Inorganic Arsenic (As)	Arsenite (As III)	Arsenate (As V) [1]	Percentage of As III	Percentage of As V
	Analytical Method	1632M	1632M	1632M	--	--
		(µg/L)	(µg/L)	(µg/L)	%	%
Cleanup Levels[2]		**10**	--	--	--	--
231GW26 (intermediate)	04/06/05	2.94	0.098	2.84	3	97
231GW27 (intermediate)	04/06/05	1.03	0.02 B	1.01	2	98
231GW28 (intermediate)	04/06/05	5.01	3.51	1.5	70	30
231GW29 (intermediate)	04/06/05	3.62	0.118	3.5	3	97
231GW30 (shallow)	03/22/05	6.97	7.58	< 0.28 U	>99	<1
231PZ01 (shallow)	04/04/05	7.43	4.63	2.8	62	38
231PZ02 (shallow)	04/04/05	0.387	0.342	0.045	88	12
231PZ03 (shallow)	04/04/05	2.31	1.13	1.19	49	51
231PZ04 (shallow)	04/04/05	6.64	5.44	1.19	82	18

Notes

1 - The concentration of As V was determined by the laboratory by subtracting the As III concentration from the inorganic As concentration. As III has been detected at greater concentrations than inorganic As, due to analytical variability. As V is reported as non-detect when As III is detected at a greater concentration than inorganic As.
2 - From Table 4 of the CAP.
µg/L - micrograms per liter
Bold numbers indicate concentrations which exceed cleanup levels.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-10-6
Results of Dissolved Metals Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**1,000**	**10**	**10**	**1.1**	**--**	**50**	**2.9**	**--**	**2.5**	**--**	**--**	**8.2**	**--**	**--**	**81**	**--**
207GW03	03/16/06	< 100 UJ	< 5	NA	< 1	20,000	< 10	< 1	< 100	< 3	35,000	< 10	< 20	21,000	170,000 J	< 20	880 J
(intermediate)	04/12/05	< 100	< 5	0.249	< 1	21,000	< 10	< 1	< 100	< 3	36,000	14	< 20	19,000	170,000	< 20	630
	01/11/99	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	45	NA	NA	NA	NA	724
	10/12/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	51.3	NA	NA	NA	NA	806
	03/05/98	< 100	NA	NA	NA	21,800	< 10	< 1	< 100	NA	36,700	15	< 5	23,600	223,000	NA	3,660
	05/04/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	43	NA	NA	NA	NA	819
	07/09/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	27	NA	NA	NA	NA	739
231GW06	03/15/06	< 100	7.2	NA	< 1	23,000	< 10	1.4	150 J	< 3	35,000	21	< 20	8,100 J	58,000	< 20	440 J
(intermediate)	04/04/05	< 100	6.1	5.52	< 1	30,000	< 10	< 1	< 100	< 3	48,000	24	< 20	7,300	65,000	< 20	420
	01/20/99	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	510
	01/27/98	< 100	NA	NA	NA	23,000	< 10	< 1 B	< 100	NA	45,400	16	**15**	9,560	64,700	NA	487
	01/29/97	NA	NA	NA	NA	NA	NA	NA	< 50	NA	NA	23	NA	NA	NA	NA	464
	10/20/98	NA	NA	NA	NA	NA	NA	NA	113	NA	NA	27	NA	NA	NA	NA	537 B
	10/22/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	25	NA	NA	NA	NA	478
	04/23/97	NA	NA	NA	NA	NA	NA	NA	< 50	NA	NA	23	NA	NA	NA	NA	456
	04/23/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	25	NA	NA	NA	NA	415
	07/21/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	29	NA	NA	NA	NA	347
	07/23/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	12	NA	NA	NA	NA	483
231GW09	05/24/06	< 100	< 5	NA	< 1	27,000	24	< 1	< 100	< 3	48,000	< 10	43	< 500	76,000	< 20	480
(shallow)	03/15/06	< 100	< 5	NA	< 1	15,000	15	< 1	< 100	< 3	24,000	< 10	**29**	< 500	42,000	< 20	320 J
	11/29/05 [4]	< 100	< 5	NA	< 1	22,000	23 J	< 1	< 100	< 3	39,000	< 10	< 20	< 500	63,000	< 20	470
DUP1129052A	11/29/05 [4]	< 100	< 5	NA	< 1	24,000	23 J	1.1	< 100	< 3	40,000	< 10	< 20	< 500	64,000	< 20	540
	08/31/05 [3]	NA	NA	0.405 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	480
	06/01/05 [4]	< 100	< 5	0.371	< 1	28,000	20	< 1	< 100	< 3	41,000	< 10	**40**	< 500 UJ	63,000	< 20	460
	04/04/05	< 100	< 5	0.344	< 1	25,000	19	< 1	< 100	< 3	41,000	< 10	**85**	< 500	62,000	< 20	450
	12/17/04	< 100	< 5	NA	< 1	25,000	21	< 1	< 100	< 3	42,000	< 10	**36**	< 500	65,000	< 20	490
DUP1217042A	12/17/04	< 100	< 5	NA	< 1	26,000	22	< 1	< 100	< 3	43,000	< 10	**36**	< 500	67,000	< 20	470
	08/12/04	< 100	< 5	NA	< 1	29,000	23	< 1 U	110	< 3	47,000	< 10	**63**	< 500	72,000	< 20	430
	05/27/04	< 100	< 5	NA	< 1	27,000	23	< 1	< 100	< 3	45,000	12	**27**	< 500	69,000	< 20	490
DUP0527042C	05/27/04	< 100	< 5	NA	< 1	28,000	24	< 1	< 100	< 3	47,000	12	**27**	< 500	71,000	< 20	510
231GW09CL	05/27/04	< 50	< 5	NA	< 1	28,000	23	**18**	570	< 3	45,000	14	**28**	NA	NA	NA	420
	03/18/04	< 100	< 5	NA	< 1	29,000	20	< 1	< 100	< 3	46,000	< 10	**36**	< 500	74,000	< 20	510 J
	12/04/03	< 100	< 5	NA	< 1	22,000	22	< 1	< 100	< 3	46,000	< 10	**29**	< 500	67,000	< 20	490
	08/15/03	< 100	< 5	NA	< 1	26,000	24	< 1	120	< 3	43,000	< 10	**26**	< 500	65,000	< 20 UJ	440
	06/10/03	< 100	< 5	NA	< 1	28,000	22	< 1	< 100	< 3	47,000	< 10	**24**	< 500	67,000	< 20	470
	01/13/99	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	19	NA	NA	NA	NA	566
	10/14/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	18	NA	NA	NA	NA	530
	07/15/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	544
	04/20/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	19	NA	NA	NA	NA	790
	01/28/98	166	NA	NA	NA	60,200	< 1	< 1	8,640	NA	60,700	1,510	< 5	< 5000	129,000	NA	542
	10/23/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	523
	07/24/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	592
	04/22/97	NA	NA	NA	NA	NA	NA	NA	< 100 J	NA	NA	19	NA	NA	NA	NA	584
	01/28/97	NA	NA	NA	NA	NA	NA	NA	< 50	NA	NA	11	NA	NA	NA	NA	557

Table A-10-6
Results of Dissolved Metals Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**1,000**	**10**	**10**	**1.1**	**--**	**50**	**2.9**	**--**	**2.5**	**--**	**--**	**8.2**	**--**	**--**	**81**	**--**
231GW10 (shallow)	03/09/06	< 100	8.9	NA	< 1	58,000 J	< 10	< 1	13,000	< 3	66,000	1100	< 20	4,400	120,000	< 20	750
	03/22/05	< 100	10	**10.6**	< 1	53,000	< 10	< 1	15,000	< 3	68,000	780	< 20	5,400	130,000	< 20	690
	01/25/99	NA	NA	NA	NA	NA	NA	NA	12,400	NA	NA	1,550	NA	NA	NA	NA	734
	10/19/98	NA	NA	NA	NA	NA	NA	NA	6,720	NA	NA	437	NA	NA	NA	NA	852 B
	07/22/98	NA	NA	NA	NA	NA	NA	NA	6,910	NA	NA	443	NA	NA	NA	NA	813
	04/23/98	NA	NA	NA	NA	NA	NA	NA	7,640	NA	NA	912	NA	NA	NA	NA	767
	01/28/98	< 100	NA	NA	NA	28,000	15	1.2	< 100	NA	44,600	< 10	**105**	< 5000	73,200	NA	767
	10/22/97	NA	NA	NA	NA	NA	NA	NA	5,790	NA	NA	550	NA	NA	NA	NA	794
	07/23/97	NA	NA	NA	NA	NA	NA	NA	5,860	NA	NA	420	NA	NA	NA	NA	807
	04/23/97	NA	NA	NA	NA	NA	NA	NA	7,580	NA	NA	474	NA	NA	NA	NA	746
	01/29/97	NA	NA	NA	NA	NA	NA	NA	1,880	NA	NA	1,830	NA	NA	NA	NA	780
231GW11 (shallow)	03/15/06	< 100	< 5	NA	< 1	29,000	< 10	< 1	820 J	< 3	44,000	78	< 20	9,000 J	99,000	21	500 J
	04/05/05	< 100	< 5	0.894 J	< 1	32,000	< 10	< 1	4,500	< 3	57,000	180	< 20	11,000	92,000	< 20	510
	01/11/99	NA	NA	NA	NA	NA	NA	NA	3,980	NA	NA	200	NA	NA	NA	NA	550
	10/12/98	NA	NA	NA	NA	NA	NA	NA	1,570	NA	NA	119	NA	NA	NA	NA	551
	07/13/98	NA	NA	NA	NA	NA	NA	NA	1,060	NA	NA	102	NA	NA	NA	NA	492
	04/21/98	NA	NA	NA	NA	NA	NA	NA	3,540	NA	NA	167	NA	NA	NA	NA	509
	01/26/98	< 100	NA	NA	NA	32,300	< 10	< 1 B	5,210	NA	56,900	246	< 5	11,700	74,100	NA	524
	10/21/97	NA	NA	NA	NA	NA	NA	NA	4,340	NA	NA	192	NA	NA	NA	NA	542
	07/21/97	NA	NA	NA	NA	NA	NA	NA	1,550	NA	NA	101	NA	NA	NA	NA	565
	04/21/97	NA	NA	NA	NA	NA	NA	NA	3,610	NA	NA	164	NA	NA	NA	NA	547
	01/28/97	NA	NA	NA	NA	NA	NA	NA	2,410	NA	NA	162	NA	NA	NA	NA	546
231GW13 (deep)	03/14/06	< 100	**35**	NA	< 1	1,600	< 10	**5.7**	170	< 3	4,200	100	< 20	6,600	330,000	< 20	640
	04/05/05	< 100	**32**	**30.2 J**	< 1	1,700	< 10	**5.5**	220	< 3	4,100	82	< 20	6,600	280,000	< 20	690
	01/14/99	NA	NA	NA	NA	NA	NA	NA	733	NA	NA	92	NA	NA	NA	NA	802
	10/15/98	NA	NA	NA	NA	NA	NA	NA	480	NA	NA	87	NA	NA	NA	NA	772
	07/16/98	NA	NA	NA	NA	NA	NA	NA	852	NA	NA	19	NA	NA	NA	NA	673
	04/21/98	NA	NA	NA	NA	NA	NA	NA	755	NA	NA	91	NA	NA	NA	NA	714
	01/26/98	107	NA	NA	NA	1,670	< 10	**7.8**	1,020	NA	3,900	85	**11**	5,810	254,000	NA	653
	10/20/97	NA	NA	NA	NA	NA	NA	NA	1,030	NA	NA	75	NA	NA	NA	NA	750
	07/21/97	NA	NA	NA	NA	NA	NA	NA	892	NA	NA	16.6	NA	NA	NA	NA	778
	04/21/97	NA	NA	NA	NA	NA	NA	NA	999	NA	NA	85	NA	NA	NA	NA	786
	01/27/97	NA	NA	NA	NA	NA	NA	NA	568	NA	NA	96	NA	NA	NA	NA	818
	04/10/95	NA	NA	NA	NA	3,000	NA	NA	2,000	**< 5**	5,000	NA	NA	8,000	260,000	NA	920
231GW15 (intermediate)	03/14/06	< 100	< 5	NA	< 1	33,000	< 10	< 1	330	< 3	37,000	190	< 20	12000	51,000	< 20	510
	04/05/05	< 100	< 5	0.322 J	< 1	38,000	< 10	< 1	600	< 3	49,000	180	< 20	12,000	56,000	< 20	430
	01/14/99	NA	NA	NA	NA	NA	NA	NA	< 284	NA	NA	158	NA	NA	NA	NA	444
	10/15/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	16	NA	NA	NA	NA	402
	07/16/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	14	NA	NA	NA	NA	352
	04/21/98	NA	NA	NA	NA	NA	NA	NA	134	NA	NA	162	NA	NA	NA	NA	389
	01/26/98	< 100	NA	NA	NA	32,000	< 10	< 1 B	< 100	NA	40,200	71	< 5	10,600	50,300	NA	403
	10/20/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	419

Table A-10-6
Results of Dissolved Metals Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**1,000**	**10**	**10**	**1.1**	**--**	**50**	**2.9**	**--**	**2.5**	**--**	**--**	**8.2**	**--**	**--**	**81**	**--**
231GW15 (intermediate)	07/21/97	NA	NA	NA	NA	NA	NA	NA	341	NA	NA	155	NA	NA	NA	NA	441
	04/21/97	NA	NA	NA	NA	NA	NA	NA	279	NA	NA	151	NA	NA	NA	NA	404
	01/27/97	NA	NA	NA	NA	NA	NA	NA	< 50	NA	NA	87	NA	NA	NA	NA	448
	04/07/95	NA	NA	NA	NA	34,000	NA	NA	500	**< 5**	41,000	NA	NA	11,000	60,000	NA	790
231GW16 (shallow)	03/09/06	< 100	< 5	NA	< 1	54,000 J	< 10	< 1	890	< 3	37,000	390	< 20	16,000	220,000	< 20	980
	03/22/05	< 100	< 5	0.112	< 1	69,000	< 10	< 1	1,300	< 3	37,000	380	< 20	14,000	150,000	< 20	750
	01/14/99	NA	NA	NA	NA	NA	NA	NA	1,110	NA	NA	402	NA	NA	NA	NA	939
	10/15/98	NA	NA	NA	NA	NA	NA	NA	561	NA	NA	414	NA	NA	NA	NA	791
	07/16/98	NA	NA	NA	NA	NA	NA	NA	1,000	NA	NA	525	NA	NA	NA	NA	1,370
	04/21/98	NA	NA	NA	NA	NA	NA	NA	1,260	NA	NA	355	NA	NA	NA	NA	809
	01/26/98	< 100	NA	NA	NA	50,400	< 10	< 1 B	432	NA	29,300	408	< 5	14,800	171,000	NA	990
	10/20/97	NA	NA	NA	NA	NA	NA	NA	1,290	NA	NA	295	NA	NA	NA	NA	124
	07/21/97	NA	NA	NA	NA	NA	NA	NA	2,190	NA	NA	516	NA	NA	NA	NA	1,270
	04/24/97	NA	NA	NA	NA	NA	NA	NA	407	NA	NA	347	NA	NA	NA	NA	819
	04/24/97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,010
	01/30/97	NA	NA	NA	NA	NA	NA	NA	2,600	NA	NA	565	NA	NA	NA	NA	800
231GW17 (deep)	03/15/06	< 100	< 5	NA	< 1	15,000	19	< 1	< 100 UJ	< 3	48,000	< 10	< 20	790 J	43,000	< 20	480 J
	04/05/05	< 100	< 5	0.818 J	< 1	15,000	20	< 1	< 100	< 3	49,000	< 10	< 20	760	40,000	< 20	360
	01/13/99	NA	NA	NA	NA	NA	NA	NA	429	NA	NA	15	NA	NA	NA	NA	NA
	10/14/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	374
	07/15/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	369
	04/20/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	396
	01/27/98	< 100	NA	NA	NA	13,900	19	< 1 B	< 100	NA	42,800	< 10	< 5	< 5000	37,300	NA	387
	10/21/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	367
	07/22/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	372
	04/22/97	NA	NA	NA	NA	NA	NA	NA	451	NA	NA	< 10 J	NA	NA	NA	NA	352
	01/28/97	NA	NA	NA	NA	NA	NA	NA	< 50	NA	NA	< 10	NA	NA	NA	NA	400
	04/10/95	NA	NA	NA	NA	13,000	NA	NA	1,700	**< 5**	37,000	NA	NA	3,000	35,000	NA	410
231GW18 (intermediate)	03/15/06	< 100	< 5	NA	< 1	27,000	14	< 1	< 100 UJ	< 3	55,000	< 10	< 20	1,300 J	58,000	< 20	520 J
	04/05/05	< 100	< 5	1.25 J	< 1	23,000	15	< 1	150	< 3	50,000	< 10	< 20	1,200	44,000	< 20	430
	01/13/99	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	522
	10/14/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	466
	07/15/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	469
	04/20/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	484
	01/27/98	< 100	NA	NA	NA	23,400	14.1	< 1 B	< 100	NA	50,400	< 10	< 5	< 5000	45,800	NA	480
	10/21/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	475
	07/22/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	489
	04/22/97	NA	NA	NA	NA	NA	NA	NA	117	NA	NA	< 10 J	NA	NA	NA	NA	472
	01/28/97	NA	NA	NA	NA	NA	NA	NA	< 50	NA	NA	< 10	NA	NA	NA	NA	500
	04/10/95	NA	NA	NA	NA	22,000	NA	NA	2,200	**< 5**	46,000	NA	NA	2,000	52,000	NA	500

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Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**1,000**	**10**	**10**	**1.1**	**--**	**50**	**2.9**	**--**	**2.5**	**--**	**--**	**8.2**	**--**	**--**	**81**	**--**
231GW19 (shallow)	03/16/06	< 100 UJ	9.2	NA	< 1	38,000	< 10	< 1	12,000	< 3	29,000	750	< 20	5,200	50,000 J	< 20	420 J
	04/05/05	< 100	8.2	9.14 J	< 1	26,000	< 10	< 1	8,400	< 3	19,000	460	< 20	4,300	46,000	< 20	260
	01/13/99	NA	NA	NA	NA	NA	NA	NA	15,100	NA	NA	792	NA	NA	NA	NA	484
	10/14/98	NA	NA	NA	NA	NA	NA	NA	7,740	NA	NA	506	NA	NA	NA	NA	482
	07/15/98	NA	NA	NA	NA	NA	NA	NA	9,790	NA	NA	636	NA	NA	NA	NA	437
	04/20/98	NA	NA	NA	NA	NA	NA	NA	6,250	NA	NA	657	NA	NA	NA	NA	529
	01/27/98	< 100	NA	NA	NA	49,100	< 10	< 1 B	4,170	NA	41,400	443	5.3	< 5000	52,700	NA	465
	10/20/97	NA	NA	NA	NA	NA	NA	NA	7,000	NA	NA	499	NA	NA	NA	NA	452
	07/22/97	NA	NA	NA	NA	NA	NA	NA	7,330	NA	NA	501	NA	NA	NA	NA	428
	04/21/97	NA	NA	NA	NA	NA	NA	NA	11,600	NA	NA	778	NA	NA	NA	NA	521
	01/27/97	NA	NA	NA	NA	NA	NA	NA	1,740	NA	NA	267	NA	NA	NA	NA	376
	04/10/95	NA	NA	NA	NA	49,000	NA	NA	9,200	**< 5**	50,000	NA	NA	6,000	72,000	NA	650
231GW20 (deep)	03/15/06	< 100	< 5	NA	< 1	15,000	< 10	2.8	< 100 UJ	< 3	9,100	< 10	< 20	2,400 J	14,000	< 20	240 J
	04/06/05	< 100	< 5	0.809	< 1	13,000	< 10	< 1	< 100	< 3	34,000	< 10	< 20	820	43,000	< 20	220
	01/20/99	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	372
	10/20/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	397 B
	07/21/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	354
	04/23/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	353
	01/29/98	< 100	NA	NA	NA	13,600	6	< 1	< 100	NA	42,900	< 10	< 5	< 5000	46,100	NA	390
	10/22/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	365
	07/23/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	385
	04/23/97	NA	NA	NA	NA	NA	NA	NA	< 100 J	NA	NA	< 10 J	NA	NA	NA	NA	342
	04/11/95	NA	NA	NA	NA	13,000	NA	NA	1,600	**7**	42,000	NA	NA	1,000	43,000	NA	350
231GW21 (shallow)	03/08/06	< 100	**18**	NA	< 1	60,000	< 10	< 1	21,000	**4.6**	49,000	970	< 20	4,000	47,000	< 20	580
DUP0308061A	03/08/06	< 100	**22**	NA	< 1	62,000	< 10	< 1	20,000	**6.3**	57,000	820	< 20	5,100	54,000	< 20	570
231GW21CL	03/08/06	< 100 U	**19**	NA	< 1 U	68,000	< 10 U	< 2 U	24,000 J+	**4.2**	50,000	1100	3.6	< 5,000 U	48,000	< 20 U	530
	03/31/05	< 100	**21**	**18.2**	< 1	74,000 J	< 10	< 1	28,000	**5.1**	61,000	1600 J	< 20	5,700	60,000	< 20	540 J-
DUP0331052D	03/31/05	< 100	**23**	**19.1**	< 1	76,000 J	< 10	< 1	25,000	**6.4**	57,000	1400 J	< 20	6,400	57,000	< 20	590 J-
231GW21CL	03/31/05	< 100 U	6.45	NA	< 1 U	85,600	< 10 U	< 2 U	1,720	< 1 U	40,500	3710	< 2 U	5,540	93,000	< 20 U	655
	01/20/99	NA	NA	NA	NA	NA	NA	NA	19,700	NA	NA	2,620	NA	NA	NA	NA	766
	10/20/98	NA	NA	NA	NA	NA	NA	NA	29,600	NA	NA	3,020	NA	NA	NA	NA	415 B
	07/23/98	NA	NA	NA	NA	NA	NA	NA	32,200	NA	NA	3,430	NA	NA	NA	NA	809
	05/01/98	NA	NA	NA	NA	NA	NA	NA	32,900	NA	NA	3,960	NA	NA	NA	NA	860
	01/28/98	< 100	NA	NA	NA	103,000	1.1	< 1	30,100	NA	85,500	3,230	**25**	5,200	69,000	NA	868
	10/27/97	NA	NA	NA	NA	NA	NA	NA	7,730	NA	NA	2,080	NA	NA	NA	NA	813
	07/24/97	NA	NA	NA	NA	NA	NA	NA	27,300	NA	NA	3,610	NA	NA	NA	NA	885
	04/24/97	NA	NA	NA	NA	NA	NA	NA	26,100	**8.7**	NA	3,910	NA	NA	NA	NA	751
	01/30/97	NA	NA	NA	NA	NA	NA	NA	8,780	NA	NA	2,680	NA	NA	NA	NA	776
	04/12/95	NA	NA	NA	NA	82,000	NA	NA	3,200	< 5	69,000	NA	NA	7,000	73,000	NA	470

Table A-10-6
Results of Dissolved Metals Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**1,000**	**10**	**10**	**1.1**	**--**	**50**	**2.9**	**--**	**2.5**	**--**	**--**	**8.2**	**--**	**--**	**81**	**--**
231GW22 (shallow)	03/09/06	< 100	**31**	NA	< 1	69,000 J	< 10	< 1	31,000	< 3	85,000	1,300	< 20	37,000	83,000	< 20	1,030
DUP0309061A	03/09/06	< 100	**31**	NA	< 1	71,000 J	< 10	< 1	31,000	< 3	86,000	1,400	< 20	38,000	85,000	21	1,170
	03/23/05	< 100	**30**	**23.6**	< 1	75,000	< 10	< 1	30,000	< 3	87,000	1,300	< 20	36,000	91,000	< 20	830
DUP0323052A	03/23/05	< 100	**30**	**26.2**	< 1	78,000	< 10	< 1	33,000	< 3	87,000	1,300	< 20	39,000	92,000	< 20	830
	01/21/99	NA	NA	NA	NA	NA	NA	NA	17,200	NA	NA	1,470	NA	NA	NA	NA	915
	10/21/98	NA	NA	NA	NA	NA	NA	NA	15,800	NA	NA	1,610	NA	NA	NA	NA	936 B
	07/22/98	NA	NA	NA	NA	NA	NA	NA	8,380	NA	NA	1,330	NA	NA	NA	NA	829
	04/27/98	NA	NA	NA	NA	NA	NA	NA	7,180	NA	NA	1,380	NA	NA	NA	NA	917
	01/29/98	< 100	NA	NA	NA	64,600	1.4	< 1	4,350	NA	81,500	1,300	7.7	22,000	113,000	NA	908
	10/28/97	NA	NA	NA	NA	NA	NA	NA	4,470	NA	NA	1,420	NA	NA	NA	NA	899
	07/28/97	NA	NA	NA	NA	NA	NA	NA	6,220	NA	NA	1,660	NA	NA	NA	NA	995
	04/28/97	NA	NA	NA	NA	NA	NA	NA	1,260	**4.9**	NA	951	NA	NA	NA	NA	NA
231GW23 (shallow)	03/15/06	< 100	< 5	NA	< 1	46,000	< 10	1.1	22,000 J	< 3	52,000	2,000	< 20	16,000 J	63,000	< 20	600 J
	04/05/05	< 100	6.1	5.66 J	< 1	51,000	< 10	< 1	25,000	< 3	66,000	2,200	< 20	18,000	62,000	< 20	370
	01/20/99	NA	NA	NA	NA	NA	NA	NA	21,900	NA	NA	1,550	NA	NA	NA	NA	547
	10/22/98	NA	NA	NA	NA	NA	NA	NA	21,500	NA	NA	1,710	NA	NA	NA	NA	558
	07/23/98	NA	NA	NA	NA	NA	NA	NA	23,000	NA	NA	1,700	NA	NA	NA	NA	539
	04/28/98	NA	NA	NA	NA	NA	NA	NA	22,700	NA	NA	1,610	NA	NA	NA	NA	504
	02/02/98	< 100	NA	NA	NA	39,200	< 10	< 1	22,600	NA	58,100	1,640	< 5	20,600	57,700	NA	576
	10/23/97	NA	NA	NA	NA	NA	NA	NA	21,000	NA	NA	1,620	NA	NA	NA	NA	586
	07/29/97	NA	NA	NA	NA	NA	NA	NA	15,800	NA	NA	1,680	NA	NA	NA	NA	546
	04/29/97	NA	NA	NA	NA	NA	NA	NA	4,100	NA	NA	1,980	NA	NA	NA	NA	580
231GW24 (shallow)	03/16/06	< 100 UJ	< 5	NA	< 1	25,000	< 10	< 1	810	< 3	43,000	170	< 20	3,400	44,000 J	< 20	470 J
	04/05/05	< 100	< 5	4.19 J	< 1	18,000	< 10	< 1	1,700	< 3	39,000	130	< 20	3,600	45,000	< 20	320
	01/20/99	NA	NA	NA	NA	NA	NA	NA	1,890	NA	NA	58.3	NA	NA	NA	NA	443
	10/19/98	NA	NA	NA	NA	NA	NA	NA	1,270	NA	NA	60	NA	NA	NA	NA	419 B
	07/20/98	NA	NA	NA	NA	NA	NA	NA	1,090	NA	NA	66	NA	NA	NA	NA	407
	04/22/98	NA	NA	NA	NA	NA	NA	NA	953	NA	NA	73	NA	NA	NA	NA	405
	02/03/98	< 100	NA	NA	NA	27,800	< 10	< 1	682	NA	43,100	65	< 5	< 5000	42,000	NA	428
	10/29/97	NA	NA	NA	NA	NA	NA	NA	1,430	NA	NA	60	NA	NA	NA	NA	434
	07/30/97	NA	NA	NA	NA	NA	NA	NA	1,350	NA	NA	74	NA	NA	NA	NA	367
	04/30/97	NA	NA	NA	NA	NA	NA	NA	2,080	NA	NA	148	NA	NA	NA	NA	384
231GW25 (shallow)	03/15/06	< 100	**14**	NA	< 1	95,000	< 10	< 1	29,000 J	< 3	66,000	3,900	< 20	9,200 J	150,000	< 20	610 J
	04/06/05	< 100	**14**	**14.2**	< 1	77,000	< 10	< 1	18,000	< 3	58,000	3,000	< 20	8,900	120,000	< 20	730
	01/21/99	NA	NA	NA	NA	NA	NA	NA	13,700	NA	NA	3,120	NA	NA	NA	NA	819
	10/19/98	NA	NA	NA	NA	NA	NA	NA	11,600	NA	NA	2,420	NA	NA	NA	NA	824 B
	07/20/98	NA	NA	NA	NA	NA	NA	NA	9,900	NA	NA	3,270	NA	NA	NA	NA	783
	04/22/98	NA	NA	NA	NA	NA	NA	NA	10,400	NA	NA	3,340	NA	NA	NA	NA	863
	02/03/98	< 100	NA	NA	NA	86,400	< 10	< 1	8,140	NA	63,400	5,040	7.6	11,300	136,000	NA	889
	10/29/97	NA	NA	NA	NA	NA	NA	NA	5,060	NA	NA	2,580	NA	NA	NA	NA	928
	07/30/97	NA	NA	NA	NA	NA	NA	NA	1,770	NA	NA	2,330	NA	NA	NA	NA	630
	04/30/97	NA	NA	NA	NA	NA	NA	NA	1,660	NA	NA	1,780	NA	NA	NA	NA	750

Table A-10-6
Results of Dissolved Metals Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**1,000**	**10**	**10**	**1.1**	**--**	**50**	**2.9**	**--**	**2.5**	**--**	**--**	**8.2**	**--**	**--**	**81**	**--**
231GW26 (intermediate)	03/16/06	< 100 UJ	< 5	NA	< 1	27,000	< 10	< 1	< 100	< 3	43,000	< 10	< 20	1600	60000 J	< 20	440 J
	04/06/05	< 100	< 5	2.94	< 1	31,000	< 10	< 1	< 100	< 3	47,000	13	< 20	1,800	67,000	< 20	480
	01/21/99	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	16	NA	NA	NA	NA	525
	10/21/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	30	NA	NA	NA	NA	578 B
	07/22/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	19	NA	NA	NA	NA	349
	04/27/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	19	NA	NA	NA	NA	545
	01/29/98	< 100	NA	NA	NA	29,700	< 1	< 1	< 100	NA	43,900	18	8.1	< 5000	56,700	NA	492
	10/28/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	20	NA	NA	NA	NA	493
	07/28/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	30	NA	NA	NA	NA	545
	04/28/97	NA	NA	NA	NA	NA	NA	NA	< 50	1.1	NA	48	NA	NA	NA	NA	536
231GW27 (intermediate)	03/15/06	< 100	< 5	NA	< 1	30,000	30	< 1	< 100 UJ	< 3	53,000	< 10	< 20	670 J	57,000	< 20	490 J
	04/06/05	< 100	< 5	1.03	< 1	29,000	23	< 1	< 100	< 3	55,000	< 10	< 20	600	51,000	< 20	440
	01/21/99	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	10	NA	NA	NA	NA	83
	10/21/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	498 B
	07/22/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	371
	04/27/98	NA	NA	NA	NA	NA	NA	NA	182	NA	NA	< 10	NA	NA	NA	NA	475
	01/29/98	< 100	NA	NA	NA	16,600	11.1	< 1	< 100	NA	25,800	< 10	< 5	< 5,000	25,500	NA	240
	10/28/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	473
	07/28/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	< 10	NA	NA	NA	NA	445
	04/28/97	NA	NA	NA	NA	NA	NA	NA	< 50	NA	NA	15	NA	NA	NA	NA	452
231GW28 (intermediate)	03/15/06	< 100	6.3	NA	< 1	53,000	< 10	< 1	16,000 J	< 3	32,000	1,400	< 20	3,100 J	26,000	< 20	370 J
	04/06/05	< 100	5.8	5.01	< 1	43,000	< 10	< 1	15,000	< 3	36,000	760	< 20	2,000	36,000	< 20	380
	01/11/99	NA	NA	NA	NA	NA	NA	NA	3,020	NA	NA	192	NA	NA	NA	NA	396
	10/22/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	19.2	NA	NA	NA	NA	426
	07/23/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	84	NA	NA	NA	NA	385
	04/28/98	NA	NA	NA	NA	NA	NA	NA	934	NA	NA	92	NA	NA	NA	NA	131
	02/02/98	< 100	NA	NA	NA	19,800	< 10	< 1	1,610	NA	31,600	128	7.7	< 5,000	49,600	NA	397
	10/27/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	41	NA	NA	NA	NA	390
	07/29/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	71	NA	NA	NA	NA	409
	04/29/97	NA	NA	NA	NA	NA	NA	NA	315	NA	NA	370	NA	NA	NA	NA	424
231GW29 (intermediate)	03/16/06	< 100 UJ	< 5	NA	< 1	29,000	< 10	< 1	< 100	< 3	58,000	130	< 20	4,400	51,000 J	< 20	590 J
	04/06/05	< 100	< 5	3.62	< 1	28,000	< 10	< 1	< 100	< 3	54,000	170	< 20	4,000	47,000	< 20	510
	01/21/99	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	150	NA	NA	NA	NA	486
	10/22/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	233	NA	NA	NA	NA	486
	07/23/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	22	NA	NA	NA	NA	461
	04/28/98	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	62	NA	NA	NA	NA	467
	02/02/98	< 100	NA	NA	NA	29,000	< 10	< 1	< 100	NA	54,800	177	< 5	< 5,000	48,100	NA	520
	10/27/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	25	NA	NA	NA	NA	485
	07/29/97	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	56	NA	NA	NA	NA	470
	04/29/97	NA	NA	NA	NA	NA	NA	NA	< 50	NA	NA	206	NA	NA	NA	NA	452

Table A-10-6
Results of Dissolved Metals Analyses
Building 231/207 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**1,000**	**10**	**10**	**1.1**	**--**	**50**	**2.9**	**--**	**2.5**	**--**	**--**	**8.2**	**--**	**--**	**81**	**--**
231GW30 (shallow)	03/09/06	< 100	7.2	NA	< 1	88,000 J	< 10	< 1	3,800	< 3	28,000	1200	< 20	8,200	81,000	< 20	720
	03/22/05	< 100	6.8	6.97	< 1	71,000	< 10	1.2	3,400	< 3	22,000	920	< 20	8,400	83,000	< 20	540
	01/19/99	NA	NA	NA	NA	NA	NA	NA	5,750	NA	NA	1,980	NA	NA	NA	NA	946
	10/19/98	NA	NA	NA	NA	NA	NA	NA	6,150	NA	NA	2,000	NA	NA	NA	NA	1010 B
	07/20/98	NA	NA	NA	NA	NA	NA	NA	1,740	NA	NA	1,800	NA	NA	NA	NA	890
	04/22/98	NA	NA	NA	NA	NA	NA	NA	3,130	NA	NA	1,830	NA	NA	NA	NA	901
	02/03/98	< 100	NA	NA	NA	132,000	< 10	1.5	1,680	NA	50,000	1,550	**8.9**	17,100	137,000	NA	971
	10/29/97	NA	NA	NA	NA	NA	NA	NA	1,750	NA	NA	1,880	NA	NA	NA	NA	1,060
	07/30/97	NA	NA	NA	NA	NA	NA	NA	1,850	NA	NA	1,800	NA	NA	NA	NA	1,070
	04/30/97	NA	NA	NA	NA	NA	NA	NA	692	NA	NA	1,560	NA	NA	NA	NA	1,050
231PZ01 (shallow)	03/14/06	< 100	**22**	NA	< 1	130,000	< 10	1	41,000	**6.3**	79,000	3,000	< 20	38,000	86,000	22	1,120
	04/04/05	< 200	**17**	7.43	< 1	110,000	< 10	< 1	41,000	**5.4**	85,000	2,400	< 20	29,000	100,000	< 20	900
	01/12/99	NA	NA	NA	NA	NA	NA	NA	43,600	NA	NA	2,180	NA	NA	NA	NA	1,060
	10/13/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,080
	07/14/98	NA	NA	NA	NA	NA	NA	NA	25,000	NA	NA	1,080	NA	NA	NA	NA	961
	04/30/98	NA	NA	NA	NA	NA	NA	NA	14,600	NA	NA	1,340	NA	NA	NA	NA	894
	02/03/98	< 100	NA	NA	NA	73,000	< 10	< 1	21,900	NA	78,500	1,230	< 5	24,500	87,500	NA	804
231PZ02 (shallow)	03/10/06	< 100	< 5	NA	< 1	160,000 J	< 10	< 1	5,600	< 3	58,000	2,800	< 20	8,300	180,000	< 20	960
	04/04/05	< 200	< 5	0.387	< 1	140,000	< 10	< 1	3,300	< 3	55,000	2,700	< 20	7,600	130,000	< 20	900
	07/14/98	NA	NA	NA	NA	NA	NA	NA	796	NA	NA	1,320	NA	NA	NA	NA	1,200
	04/30/98	NA	NA	NA	NA	NA	NA	NA	1,310	NA	NA	1,670	NA	NA	NA	NA	882
	02/03/98	< 100	NA	NA	NA	131,000	< 10	< 1	2,820	NA	65,800	3,580	**9.3**	8,380	125,000	NA	1,080
231PZ03 (shallow)	03/14/06	< 100	< 5	NA	< 1	85,000	< 10	< 1	16,000	< 3	48,000	2,200	< 20	5100	48,000	< 20	790
	04/04/05	< 200	< 5	2.31	< 1	77,000	< 10	< 1	15,000	< 3	54,000	2,100	< 20	4,200	51,000	< 20	540
	01/12/99	NA	NA	NA	NA	NA	NA	NA	265	NA	NA	737	NA	NA	NA	NA	603
	10/13/98	NA	NA	NA	NA	NA	NA	NA	363	NA	NA	882	NA	NA	NA	NA	601
	07/14/98	NA	NA	NA	NA	NA	NA	NA	3,580	NA	NA	1,980	NA	NA	NA	NA	594
	04/30/98	NA	NA	NA	NA	NA	NA	NA	13,200	NA	NA	2,930	NA	NA	NA	NA	594
	02/03/98	< 100	NA	NA	NA	42,100	< 10	< 1	2,020	NA	43,500	902	< 5	22,300	88,700	NA	584
231PZ04 (shallow)	03/14/06	< 100	10	NA	< 1	94,000	< 10	< 1	20,000	< 3	54,000	2,400	< 20	6,000	51,000	< 20	710
	04/04/05	< 200	10	6.64	< 1	89,000	< 10	< 1	21,000	< 3	61,000	2,400	< 20	5,700	51,000	< 20	610
	01/11/99	NA	NA	NA	NA	NA	NA	NA	2,370	NA	NA	1,230	NA	NA	NA	NA	621
	10/12/98	NA	NA	NA	NA	NA	NA	NA	4,440	NA	NA	1,490	NA	NA	NA	NA	640
	07/13/98	NA	NA	NA	NA	NA	NA	NA	9,050	NA	NA	2,710	NA	NA	NA	NA	634
	04/30/98	NA	NA	NA	NA	NA	NA	NA	13,000	NA	NA	3,590	NA	NA	NA	NA	640
	02/04/98	< 100	NA	NA	NA	154,000	< 1	< 1	13,000	NA	61,800	5,630	7.9	< 5000	42,500	NA	854

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the First Quarter 2005.
2 - From Table 4 of the CAP.
3 - Due to computer/review error by the laboratory, sample 231GW09 was not analyzed by ICP-MS for the list of 22 metals. The sample had already been disposed of when the omission was discovered.
4 - Additional metals were analyzed as part of Fill Site 6 and are presented in Table A-3-3.
The analytical methods used during previous quarters are identified in the respective quarterly reports.
µg/L - micrograms per liter
mg/L - milligrams per liter
NA - Not analyzed
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.

Table 11 in the main report identifies current and historic data qualifiers.

Bold numbers - indicate concentrations which exceed cleanup levels.
-- Cleanup level not established.

Table A-10-7
Groundwater Elevation Summary
Building 231/207 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
Shallow Zone Monitoring Wells					
231GW09	05/22/06	12.80	24.28	11.48	MW
	03/06/06	12.60	24.28	11.68	MW
	11/28/05	13.11	24.28	11.17	MW
	08/29/05	12.36	24.28	11.92	MW
	05/23/05	11.15	24.28	13.13	MW
	03/14/05	11.50	24.28	12.78	MW
	12/13/04	12.18	24.28	12.10	MW
	08/09/04	12.75	24.28	11.53	MW
	05/24/04	12.63	24.28	11.65	MW
	03/08/04	12.22	24.28	12.06	MW
	12/01/03	13.15	24.28	11.13	MW
	08/11/03	13.38	24.28	10.90	MW
	06/02/03	13.22	24.28	11.06	MW
	03/10/03	12.25	24.28	12.03	MW
	12/02/02	12.43	24.28	11.85	MW
	08/26/02	12.26	24.28	12.02	MW
	05/28/02	12.20	24.28	12.08	MW
	03/04/02	11.97	24.28	12.31	MW
	11/26/01	12.31 [2]	24.28	11.97	MW
	08/27/01	12.65	24.28	11.63	MW
	05/08/01	12.06	24.28	12.22	MW
231GW10	05/22/06	3.28	11.37	8.09	MW
	03/06/06	2.96	11.37	8.41	MW
	11/28/05	3.24	11.37	8.13	MW
	08/29/05	3.51	11.37	7.86	MW
	05/23/05	2.83	11.37	8.54	MW
	03/14/05	3.05	11.37	8.32	MW
	12/13/04	3.36	11.37	8.01	MW
	08/09/04	3.95	11.37	7.42	MW
	05/24/04	3.62	11.37	7.75	MW
	03/08/04	2.88	11.37	8.49	MW
	12/01/03	3.48	11.37	7.89	MW
	08/11/03	3.53	11.37	7.84	MW
	06/02/03	3.77	11.37	7.60	MW
	03/10/03	2.74	11.37	8.63	MW
	12/02/02	3.41	11.37	7.96	MW
	08/26/02	3.30	11.37	8.07	MW
	05/28/02	3.31	11.37	8.06	MW
	03/04/02	2.81	11.37	8.56	MW
	11/26/01	3.50	11.37	7.87	MW
	08/27/01	3.80	11.37	7.57	MW
	05/08/01	3.44	11.37	7.93	MW
231GW11	05/22/06	3.01	11.11	8.10	MW
	03/06/06	2.35	11.11	8.76	MW
	11/28/05	2.63	11.11	8.48	MW
	08/29/05	2.79	11.11	8.32	MW
	05/23/05	2.94	11.11	8.17	MW
	03/14/05	2.37	11.11	8.74	MW
	12/13/04	2.45	11.11	8.66	MW
	08/09/04	2.96	11.11	8.15	MW
	05/24/04	2.95	11.11	8.16	MW
	03/08/04	2.95	11.11	8.16	MW
	12/01/03	3.59	11.11	7.52	MW
	08/11/03	3.78	11.11	7.33	MW
	06/02/03	4.13	11.11	6.98	MW
	03/10/03	4.01	11.11	7.10	MW
	12/02/02	3.64	11.11	7.47	MW
	08/26/02	2.23	11.11	8.88	MW
	05/28/02	3.24	11.11	7.87	MW
	03/04/02	2.05	11.11	9.06	MW
	11/26/01	2.25	11.11	8.86	MW
	08/27/01	2.68	11.11	8.43	MW
	05/08/01	2.46	11.11	8.65	MW

Table A-10-7
Groundwater Elevation Summary
Building 231/207 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
231GW16	05/22/06	5.68	10.80	5.12	MW
	03/06/06	5.53	10.80	5.27	MW
	11/28/05	5.58	10.80	5.22	MW
	08/29/05	5.52	10.80	5.28	MW
	05/23/05	5.43	10.80	5.37	MW
	03/14/05	5.36	10.80	5.44	MW
	12/13/04	5.50	10.80	5.30	MW
	08/09/04	5.57	10.80	5.23	MW
	05/24/04	5.63	10.80	5.17	MW
	03/08/04	5.52	10.80	5.28	MW
	12/01/03	5.53	10.80	5.27	MW
	08/11/03	5.51	10.80	5.29	MW
	06/02/03	5.63	10.80	5.17	MW
	03/10/03	5.24	10.80	5.56	MW
	12/02/02	5.51	10.80	5.29	MW
	08/26/02	5.51	10.80	5.29	MW
	05/28/02	5.51	10.80	5.29	MW
	03/04/02	5.59	10.80	5.21	MW
	11/26/01	5.54	10.80	5.26	MW
	08/27/01	5.63	10.80	5.17	MW
	05/08/01	5.54	10.80	5.26	MW
231GW19	05/22/06	3.92	12.20	8.28	MW
	03/06/06	2.93	12.20	9.27	MW
	11/28/05	4.46	12.20	7.74	MW
	08/29/05	4.32	12.20	7.88	MW
	05/23/05	3.37	12.20	8.83	MW
	03/14/05	3.28	12.20	8.92	MW
	12/13/04	4.00	12.20	8.20	MW
	08/09/04	4.75	12.20	7.45	MW
	05/24/04	4.39	12.20	7.81	MW
	03/08/04	3.64	12.20	8.56	MW
	12/01/03	4.72	12.20	7.48	MW
	08/11/03	4.71	12.20	7.49	MW
	06/02/03	4.28	12.20	7.92	MW
	03/10/03	3.59	12.20	8.61	MW
	12/02/02	4.47	12.20	7.73	MW
	08/26/02	4.49	12.20	7.71	MW
	05/28/02	4.14	12.20	8.06	MW
	03/04/02	3.71	12.20	8.49	MW
	11/26/01	4.28	12.20	7.92	MW
	08/27/01	4.56	12.20	7.64	MW
	05/08/01	4.11	12.20	8.09	MW
231GW21	05/22/06	5.28	13.50	8.22	MW
	03/06/06	5.20	13.50	8.30	MW
	11/28/05	5.62	13.50	7.88	MW
	08/29/05	5.41	13.50	8.09	MW
	05/23/05	4.75	13.50	8.75	MW
	03/14/05	4.75	13.50	8.75	MW
	12/13/04	5.33	13.50	8.17	MW
	08/09/04	5.63	13.50	7.87	MW
	05/24/04	5.29	13.50	8.21	MW
	03/08/04	4.91	13.50	8.59	MW
	12/01/03	5.86	13.50	7.64	MW
	08/11/03	5.67	13.50	7.83	MW
	06/02/03	5.35	13.50	8.15	MW
	03/10/03	5.13	13.50	8.37	MW
	12/02/02	5.58	13.50	7.92	MW
	08/26/02	5.40	13.50	8.10	MW
	05/28/02	5.33	13.50	8.17	MW
	03/04/02	5.19	13.50	8.31	MW
	11/26/01	5.48	13.50	8.02	MW
	08/27/01	5.39	13.50	8.11	MW
	05/08/01	5.23	13.50	8.27	MW

Table A-10-7
Groundwater Elevation Summary
Building 231/207 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
231GW22	05/22/06	6.31	15.88	9.57	MW
	03/06/06	6.44	15.88	9.44	MW
	11/28/05	6.89	15.88	8.99	MW
	08/29/05	6.53	15.88	9.35	MW
	05/23/05	5.51	15.88	10.37	MW
	03/14/05	6.03	15.88	9.85	MW
	12/13/04	6.82	15.88	9.06	MW
	08/09/04	6.85	15.88	9.03	MW
	05/24/04	6.54	15.88	9.34	MW
	03/08/04	6.31	15.88	9.57	MW
	12/01/03	7.23	15.88	8.65	MW
	08/11/03	6.88	15.88	9.00	MW
	06/02/03	6.47	15.88	9.41	MW
	03/10/03	6.22	15.88	9.66	MW
	12/02/02	6.86	15.88	9.02	MW
	08/26/02	6.60	15.88	9.28	MW
	05/28/02	6.40	15.88	9.48	MW
	03/04/02	6.19	15.88	9.69	MW
	11/26/01	6.80	15.88	9.08	MW
	08/27/01	6.67	15.88	9.21	MW
	05/08/01	6.27	15.88	9.61	MW
231GW23	05/22/06	2.72	11.84	9.12	MW
	03/06/06	2.87	11.84	8.97	MW
	11/28/05	3.03	11.84	8.81	MW
	08/29/05	3.01	11.84	8.83	MW
	05/23/05	2.25	11.84	9.59	MW
	03/14/05	1.70	11.84	10.14	MW
	12/13/04	3.00	11.84	8.84	MW
	08/09/04	3.58	11.84	8.26	MW
	05/24/04	3.40	11.84	8.44	MW
	03/08/04	3.06	11.84	8.78	MW
	12/01/03	3.44	11.84	8.40	MW
	08/11/03	3.58	11.84	8.26	MW
	06/02/03	3.46	11.84	8.38	MW
	03/10/03	3.14	11.84	8.70	MW
	12/02/02	3.24	11.84	8.60	MW
	08/26/02	3.04	11.84	8.80	MW
	05/28/02	3.05	11.84	8.79	MW
	03/04/02	2.81	11.84	9.03	MW
	11/26/01	2.85	11.84	8.99	MW
	08/27/01	3.35	11.84	8.49	MW
	05/08/01	3.42	11.84	8.42	MW
231GW24	05/22/06	4.13	11.63	7.50	MW
	03/06/06	3.35	11.63	8.28	MW
	11/28/05	4.47	11.63	7.16	MW
	08/29/05	4.47	11.63	7.16	MW
	05/23/05	3.80	11.63	7.83	MW
	03/14/05	3.73	11.63	7.90	MW
	12/13/04	4.11	11.63	7.52	MW
	08/09/04	4.70	11.63	6.93	MW
	05/24/04	4.48	11.63	7.15	MW
	03/08/04	3.96	11.63	7.67	MW
	12/01/03	4.59	11.63	7.04	MW
	08/11/03	4.63	11.63	7.00	MW
	06/02/03	4.37	11.63	7.26	MW
	03/10/03	3.97	11.63	7.66	MW
	12/02/02	4.52	11.63	7.11	MW
	08/26/02	4.50	11.63	7.13	MW
	05/28/02	4.28	11.63	7.35	MW
	03/04/02	4.04	11.63	7.59	MW
	11/26/01	4.34	11.63	7.29	MW
	08/27/01	4.63	11.63	7.00	MW
	05/08/01	4.29	11.63	7.34	MW

Table A-10-7
Groundwater Elevation Summary
Building 231/207 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
231GW25	05/22/06	4.14	12.45	8.31	MW
	03/06/06	3.49	12.45	8.96	MW
	11/28/05	4.13	12.45	8.32	MW
	08/29/05	4.11	12.45	8.34	MW
	05/23/05	3.38	12.45	9.07	MW
	03/14/05	3.48	12.45	8.97	MW
	12/13/04	3.75	12.45	8.70	MW
	08/09/04	4.47	12.45	7.98	MW
	05/24/04	4.21	12.45	8.24	MW
	03/08/04	3.70	12.45	8.75	MW
	12/01/03	3.98	12.45	8.47	MW
	08/11/03	4.44	12.45	8.01	MW
	06/02/03	4.56	12.45	7.89	MW
	03/10/03	3.67	12.45	8.78	MW
	12/02/02	3.83	12.45	8.62	MW
	08/26/02	4.01	12.45	8.44	MW
	05/28/02	3.98	12.45	8.47	MW
	03/04/02	3.87	12.45	8.58	MW
	11/26/01	3.65	12.45	8.80	MW
	08/27/01	4.43	12.45	8.02	MW
	05/08/01	4.09	12.45	8.36	MW
231GW30	05/22/06	5.83	12.68	6.85	MW
	03/06/06	5.10	12.68	7.58	MW
	11/28/05	5.53	12.68	7.15	MW
	08/29/05	5.38	12.68	7.30	MW
	05/23/05	4.97	12.68	7.71	MW
	03/14/05	5.35	12.68	7.33	MW
	12/13/04	5.33	12.68	7.35	MW
	08/09/04	5.60	12.68	7.08	MW
	05/24/04	6.00	12.68	6.68	MW
	03/08/04	5.55	12.68	7.13	MW
	12/01/03	5.88	12.68	6.80	MW
	08/11/03	5.35	12.68	7.33	MW
	06/02/03	6.08	12.68	6.60	MW
	03/10/03	5.06	12.68	7.62	MW
	12/02/02	5.87	12.68	6.81	MW
	08/26/02	5.30	12.68	7.38	MW
	05/28/02	5.61	12.68	7.07	MW
	03/04/02	5.70	12.68	6.98	MW
	11/26/01	5.37	12.68	7.31	MW
	08/27/01	6.04	12.68	6.64	MW
	05/08/01	5.82	12.68	6.86	MW
231PZ01	05/22/06	5.88	15.47	9.59	PZ
	03/06/06	5.88	15.47	9.59	PZ
	11/28/05	6.34	15.47	9.13	PZ
	08/29/05	5.97	15.47	9.50	PZ
	05/23/05	5.35	15.47	10.12	PZ
	03/14/05	5.48	15.47	9.99	PZ
	12/13/04	6.19	15.47	9.28	PZ
	08/09/04	6.37	15.47	9.10	PZ
	05/24/04	5.92	15.47	9.55	PZ
	03/08/04	5.70	15.47	9.77	PZ
	12/01/03	6.72	15.47	8.75	PZ
	08/11/03	6.42	15.47	9.05	PZ
	06/02/03	6.04	15.47	9.43	PZ
	03/10/03	5.61	15.47	9.86	PZ
	12/02/02	6.29	15.47	9.18	PZ
	08/26/02	6.10	15.47	9.37	PZ
	05/28/02	5.88	15.47	9.59	PZ
	03/04/02	5.59	15.47	9.88	PZ
	11/26/01	5.93	15.47	9.54	PZ
	08/27/01	6.44	15.47	9.03	PZ
	05/08/01	5.28	15.47	10.19	PZ

Table A-10-7
Groundwater Elevation Summary
Building 231/207 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
231PZ02	05/22/06	5.41	15.13	9.72	PZ
	03/06/06	5.40	15.13	9.73	PZ
	11/28/05	5.92	15.13	9.21	PZ
	08/29/05	5.60	15.13	9.53	PZ
	05/23/05	4.88	15.13	10.25	PZ
	03/14/05	4.90	15.13	10.23	PZ
	12/13/04	5.50	15.13	9.63	PZ
	08/09/04	5.93	15.13	9.20	PZ
	05/24/04	5.54	15.13	9.59	PZ
	03/08/04	5.12	15.13	10.01	PZ
	12/01/03	6.20	15.13	8.93	PZ
	08/11/03	6.14	15.13	8.99	PZ
	06/02/03	5.79	15.13	9.34	PZ
	03/10/03	5.08	15.13	10.05	PZ
	12/02/02	5.77	15.13	9.36	PZ
	08/26/02	5.63	15.13	9.50	PZ
	05/28/02	5.40	15.13	9.73	PZ
	03/04/02	5.13	15.13	10.00	PZ
	11/26/01	5.60	15.13	9.53	PZ
	08/27/01	6.07	15.13	9.06	PZ
	05/08/01	5.78	15.13	9.35	PZ
231PZ03	05/22/06	5.12	13.95	8.83	PZ
	03/06/06	4.92	13.95	9.03	PZ
	11/28/05	5.46	13.95	8.49	PZ
	08/29/05	5.38	13.95	8.57	PZ
	05/23/05	4.61	13.95	9.34	PZ
	03/14/05	4.55	13.95	9.40	PZ
	12/13/04	5.23	13.95	8.72	PZ
	08/09/04	5.67	13.95	8.28	PZ
	05/24/04	5.30	13.95	8.65	PZ
	03/08/04	4.58	13.95	9.37	PZ
	12/01/03	5.56	13.95	8.39	PZ
	08/11/03	5.67	13.95	8.28	PZ
	06/02/03	5.38	13.95	8.57	PZ
	03/10/03	4.86	13.95	9.09	PZ
	12/02/02	5.37	13.95	8.58	PZ
	08/26/02	5.27	13.95	8.68	PZ
	05/28/02	5.20	13.95	8.75	PZ
	03/04/02	4.90	13.95	9.05	PZ
	11/26/01	5.35	13.95	8.60	PZ
	08/27/01	5.43	13.95	8.52	PZ
	05/08/01	5.00	13.95	8.95	PZ
231PZ04	05/22/06	4.78	13.60	8.82	PZ
	03/06/06	4.57	13.60	9.03	PZ
	11/28/05	5.22	13.60	8.38	PZ
	08/29/05	5.04	13.60	8.56	PZ
	05/23/05	4.28	13.60	9.32	PZ
	03/14/05	4.19	13.60	9.41	PZ
	12/13/04	5.06	13.60	8.54	PZ
	08/09/04	5.32	13.60	8.28	PZ
	05/24/04	4.97	13.60	8.63	PZ
	03/08/04	4.41	13.60	9.19	PZ
	12/01/03	5.33	13.60	8.27	PZ
	08/11/03	5.35	13.60	8.25	PZ
	06/02/03	5.05	13.60	8.55	PZ
	03/10/03	4.67	13.60	8.93	PZ
	12/02/02	5.14	13.60	8.46	PZ
	08/26/02	5.04	13.60	8.56	PZ
	05/28/02	4.85	13.60	8.75	PZ
	03/04/02	4.56	13.60	9.04	PZ
	11/26/01	5.05	13.60	8.55	PZ
	08/27/01	5.57	13.60	8.03	PZ
	05/08/01	4.75	13.60	8.85	PZ

Table A-10-7
Groundwater Elevation Summary
Building 231/207 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
OW-1	05/22/06	1.84	NS	--	PZ
	03/06/06	1.97	NS	--	PZ
	11/28/05	2.15	NS	--	PZ
	08/29/05	1.65	NS	--	PZ
	05/23/05	1.21	NS	--	PZ
	03/14/05	1.23	NS	--	PZ
	12/13/04	2.00	NS	--	PZ
	08/09/04	2.31	NS	--	PZ
	05/24/01	2.14	NS	--	PZ
	03/08/04	1.78	NS	--	PZ
	12/01/03	2.82	NS	--	PZ
	08/11/03	3.09	NS	--	PZ
	06/02/03	2.98	NS	--	PZ
	03/10/03	NM	NS	--	PZ
	12/02/02	1.91	NS	--	PZ
Intermediate Zone Monitoring Wells					
207GW03	05/22/06	3.48	9.98	6.50	MW
	03/06/06	3.45	9.98	6.53	MW
	11/28/05	3.62	9.98	6.36	MW
	08/29/05	4.28	9.98	5.70	MW
	05/23/05	2.88	9.98	7.10	MW
	03/14/05	3.37	9.98	6.61	MW
	12/13/04	3.38	9.98	6.60	MW
	08/09/04	4.95	9.98	5.03	MW
	05/24/04	3.93	9.98	6.05	MW
	03/08/04	5.43	9.98	4.55	MW
	12/01/03	4.66	9.98	5.32	MW
	08/11/03	4.19	9.98	5.79	MW
	06/02/03	5.20	9.98	4.78	MW
	03/10/03	2.93	9.98	7.05	MW
	12/02/02	3.82	9.98	6.16	MW
	08/26/02	4.62	9.98	5.36	MW
	05/28/02	3.45	9.98	6.53	MW
	03/04/02	4.58	9.98	5.40	MW
	11/26/01	4.07	9.98	5.91	MW
	08/27/01	4.61	9.98	5.37	MW
	05/08/01	4.43	9.98	5.55	MW
231GW06	05/22/06	4.54	13.86	9.32	MW
	03/06/06	4.43	13.86	9.43	MW
	11/28/05	4.78	13.86	9.08	MW
	08/29/05	4.53	13.86	9.33	MW
	05/23/05	3.66	13.86	10.20	MW
	03/14/05	3.90	13.86	9.96	MW
	12/13/04	4.22	13.86	9.64	MW
	08/09/04	4.85	13.86	9.01	MW
	05/24/04	4.58	13.86	9.28	MW
	03/08/04	4.13	13.86	9.73	MW
	12/01/03	4.89	13.86	8.97	MW
	08/11/03	5.12	13.86	8.74	MW
	06/02/03	5.02	13.86	8.84	MW
	03/10/03	4.00	13.86	9.86	MW
	12/02/02	4.45	13.86	9.41	MW
	08/26/02	4.43	13.86	9.43	MW
	05/28/02	4.40	13.86	9.46	MW
	03/04/02	2.13	13.86	11.73	MW
	11/26/01	4.30	13.86	9.56	MW
	08/27/01	4.63	13.86	9.23	MW
	05/08/01	4.30	13.86	9.56	MW

Table A-10-7
Groundwater Elevation Summary
Building 231/207 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
231GW15	05/22/06	3.37	11.00	7.63	MW
	03/06/06	3.38	11.00	7.62	MW
	11/28/05	3.50	11.00	7.50	MW
	08/29/05	3.99	11.00	7.01	MW
	05/23/05	2.77	11.00	8.23	MW
	03/14/05	3.16	11.00	7.84	MW
	12/13/04	3.30	11.00	7.70	MW
	08/09/04	4.42	11.00	6.58	MW
	05/24/04	3.71	11.00	7.29	MW
	03/08/04	3.74	11.00	7.26	MW
	12/01/03	4.27	11.00	6.73	MW
	08/11/03	4.00	11.00	7.00	MW
	06/02/03	4.43	11.00	6.57	MW
	03/10/03	2.87	11.00	8.13	MW
	12/02/02	3.51	11.00	7.49	MW
	08/26/02	3.90	11.00	7.10	MW
	05/28/02	3.99	11.00	7.01	MW
	03/04/02	4.08	11.00	6.92	MW
	11/26/01	3.82	11.00	7.18	MW
	08/27/01	4.15	11.00	6.85	MW
	05/08/01	3.86	11.00	7.14	MW
231GW18	05/22/06	1.70	12.30	10.60	MW
	03/06/06	2.09	12.30	10.21	MW
	11/28/05	2.43	12.30	9.87	MW
	08/29/05	2.28	12.30	10.02	MW
	05/23/05	1.57	12.30	10.73	MW
	03/14/05	1.71	12.30	10.59	MW
	12/13/04	2.27	12.30	10.03	MW
	08/09/04	2.81	12.30	9.49	MW
	05/24/04	2.42	12.30	9.88	MW
	03/08/04	2.72	12.30	9.58	MW
	12/01/03	3.00	12.30	9.30	MW
	08/11/03	2.97	12.30	9.33	MW
	06/02/03	2.67	12.30	9.63	MW
	03/10/03	2.64	12.30	9.66	MW
	12/02/02	2.37	12.30	9.93	MW
	08/26/02	2.35	12.30	9.95	MW
	05/28/02	2.24	12.30	10.06	MW
	03/04/02	1.98	12.30	10.32	MW
	11/26/01	2.50	12.30	9.80	MW
	08/27/01	2.56	12.30	9.74	MW
	05/08/01	2.21	12.30	10.09	MW
231GW26	05/22/06	6.73	16.13	9.40	MW
	03/06/06	6.51	16.13	9.62	MW
	11/28/05	6.98	16.13	9.15	MW
	08/29/05	6.72	16.13	9.41	MW
	05/23/05	5.87	16.13	10.26	MW
	03/14/05	5.93	16.13	10.20	MW
	12/15/04	6.41	16.13	9.72	MW
	08/09/04	7.01	16.13	9.12	MW
	05/24/04	6.74	16.13	9.39	MW
	03/08/04	6.37	16.13	9.76	MW
	12/01/03	7.12	16.13	9.01	MW
	08/11/03	7.29	16.13	8.84	MW
	06/02/03	7.22	16.13	8.91	MW
	03/10/03	6.33	16.13	9.80	MW
	12/02/02	6.61	16.13	9.52	MW
	08/26/02	6.60	16.13	9.53	MW
	05/28/02	6.57	16.13	9.56	MW
	03/04/02	6.31	16.13	9.82	MW
	11/26/01	6.54	16.13	9.59	MW
	08/27/01	6.78	16.13	9.35	MW
	05/08/01	6.41	16.13	9.72	MW

Table A-10-7
Groundwater Elevation Summary
Building 231/207 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
231GW27	05/22/06	10.12	20.32	10.20	MW
	03/06/06	9.97	20.32	10.35	MW
	11/28/05	10.47	20.32	9.85	MW
	08/29/05	9.95	20.32	10.37	MW
	05/23/05	9.38	20.32	10.94	MW
	03/14/05	9.50	20.32	10.82	MW
	12/13/04	10.02	20.32	10.30	MW
	08/09/04	10.50	20.32	9.82	MW
	05/24/04	10.25	20.32	10.07	MW
	03/08/04	10.15	20.32	10.17	MW
	12/01/03	10.77	20.32	9.55	MW
	08/11/03	10.84	20.32	9.48	MW
	06/02/03	10.68	20.32	9.64	MW
	03/10/03	10.13	20.32	10.19	MW
	12/02/02	10.16	20.32	10.16	MW
	08/26/02	10.11	20.32	10.21	MW
	05/28/02	10.04	20.32	10.28	MW
	03/04/02	9.76	20.32	10.56	MW
	11/26/01	10.05	20.32	10.27	MW
	08/27/01	10.29	20.32	10.03	MW
	05/08/01	9.96	20.32	10.36	MW
231GW28	05/22/06	3.58	12.03	8.45	MW
	03/06/06	3.28	12.03	8.75	MW
	11/28/05	3.46	12.03	8.57	MW
	08/29/05	3.32	12.03	8.71	MW
	05/23/05	2.96	12.03	9.07	MW
	03/14/05	2.65	12.03	9.38	MW
	12/13/04	2.80	12.03	9.23	MW
	08/09/04	3.17	12.03	8.86	MW
	05/24/04	3.27	12.03	8.76	MW
	03/08/04	3.36	12.03	8.67	MW
	12/01/03	3.74	12.03	8.29	MW
	08/11/03	3.44	12.03	8.59	MW
	06/02/03	3.80	12.03	8.23	MW
	03/10/03	2.48	12.03	9.55	MW
	12/02/02	2.98	12.03	9.05	MW
	08/26/02	3.02	12.03	9.01	MW
	05/28/02	3.69	12.03	8.34	MW
	03/04/02	2.53	12.03	9.50	MW
	11/26/01	3.37	12.03	8.66	MW
	08/27/01	3.53	12.03	8.50	MW
	05/08/01	3.20	12.03	8.83	MW
231GW29	05/22/06	2.41	11.11	8.70	MW
	03/06/06	2.24	11.11	8.87	MW
	11/28/05	2.30	11.11	8.81	MW
	08/29/05	2.18	11.11	8.93	MW
	05/23/05	1.53	11.11	9.58	MW
	03/14/05	1.49	11.11	9.62	MW
	12/13/04	2.05	11.11	9.06	MW
	08/09/04	2.18	11.11	8.93	MW
	05/24/04	2.03	11.11	9.08	MW
	03/08/04	2.36	11.11	8.75	MW
	12/01/03	2.51	11.11	8.60	MW
	08/11/03	2.6	11.11	8.51	MW
	06/02/03	2.56	11.11	8.55	MW
	03/10/03	1.50	11.11	9.61	MW
	12/02/02	2.02	11.11	9.09	MW
	08/26/02	1.95	11.11	9.16	MW
	05/28/02	1.94	11.11	9.17	MW
	03/04/02	1.84	11.11	9.27	MW
	11/26/01	1.81	11.11	9.30	MW
	08/27/01	2.13	11.11	8.98	MW
	05/08/01	2.31	11.11	8.80	MW

Table A-10-7
Groundwater Elevation Summary
Building 231/207 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
Deep Zone Monitoring Wells					
231GW13	05/22/06	2.17	13.70	11.53	MW
	03/06/06	2.15	13.70	11.55	MW
	11/28/05	2.70	13.70	11.00	MW
	08/29/05	2.27	13.70	11.43	MW
	05/23/05	1.67	13.70	12.03	MW
	03/14/05	1.66	13.70	12.04	MW
	12/13/04	2.44	13.70	11.26	MW
	08/09/04	3.04	13.70	10.66	MW
	05/24/04	2.74	13.70	10.96	MW
	03/08/04	2.28	13.70	11.42	MW
	12/01/03	3.35	13.70	10.35	MW
	08/11/03	3.61	13.70	10.09	MW
	06/02/03	3.46	13.70	10.24	MW
	03/10/03	2.39	13.70	11.31	MW
	12/02/02	2.53	13.70	11.17	MW
	08/26/02	2.45	13.70	11.25	MW
	05/28/02	2.39	13.70	11.31	MW
	03/04/02	2.15	13.70	11.55	MW
	11/26/01	2.50	13.70	11.20	MW
	08/27/01	2.74	13.70	10.96	MW
	05/08/01	2.31	13.70	11.39	MW
231GW17	05/22/06	0.82	12.50	11.68	MW
	03/06/06	0.98	12.50	11.52	MW
	11/28/05	1.33	12.50	11.17	MW
	08/29/05	0.73	12.50	11.77	MW
	05/23/05	0.24	12.50	12.26	MW
	03/14/05	0.37	12.50	12.13	MW
	12/13/04	1.18	12.50	11.32	MW
	08/09/04	1.68	12.50	10.82	MW
	05/24/04	1.38	12.50	11.12	MW
	03/08/04	1.42	12.50	11.08	MW
	12/01/03	1.98	12.50	10.52	MW
	08/11/03	1.98	12.50	10.52	MW
	06/02/03	1.60	12.50	10.90	MW
	03/10/03	0.95	12.50	11.55	MW
	12/06/02	1.31	12.50	11.19 [3]	MW
	08/26/02	1.16	12.50	11.34	MW
	05/28/02	1.06	12.50	11.44	MW
	03/04/02	0.79	12.50	11.71	MW
	11/26/01	1.17	12.50	11.33	MW
	08/27/01	1.39	12.50	11.11	MW
	05/08/01	1.01	12.50	11.49	MW
231GW20	05/22/06	1.74	13.30	11.56	MW
	03/06/06	1.65	13.30	11.65	MW
	11/28/05	2.23	13.30	11.07	MW
	08/29/05	1.74	13.30	11.56	MW
	05/23/05	1.07	13.30	12.23	MW
	03/14/05	1.15	13.30	12.15	MW
	12/13/04	1.85	13.30	11.45	MW
	08/09/04	2.41	13.30	10.89	MW
	05/24/04	2.23	13.30	11.07	MW
	03/08/04	1.77	13.30	11.53	MW
	12/01/03	2.82	13.30	10.48	MW
	08/11/03	3.18	13.30	10.12	MW
	06/02/03	3.05	13.30	10.25	MW
	03/10/03	2.02	13.30	11.28	MW
	12/02/02	2.03	13.30	11.27	MW
	08/26/02	1.90	13.30	11.40	MW

Table A-10-7
Groundwater Elevation Summary
Building 231/207 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
231GW20	05/28/02	1.64	13.30	11.66	MW
	03/04/02	1.64	13.30	11.66	MW
	11/26/01	1.95	13.30	11.35	MW
	08/27/01	2.14	13.30	11.16	MW
	05/08/01	1.79	13.30	11.51	MW

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
2 - The depth to water was improperly recorded as 2.31 feet rather than 12.31 feet on 26 November 2001.
3 - This depth to water was measured on 6 December 2002. The depth to water measured on 2 December 2002 (2.27 feet) was determined to be in error.
MW- Monitoring well
PZ - Piezometer
NS - Not Surveyed
feet PLLW - feet above Presidio Lower Low Water vertical datum

Table A-10-8
Summary of Vertical Gradients at Well Clusters
Building 231/207 Area
Presidio of San Francisco, California

Well Cluster (WC)	Well Name	Date	Groundwater Zone	Groundwater Elevation (feet PLLW)	Screen Midpoint Elevation (feet PLLW)	Shallow/Intermediate Vertical Gradient (feet/foot) [1]	Intermediate/Deep Vertical Gradient (feet/foot) [1]	Shallow/Deep Vertical Gradient (feet/foot) [1]
WC-1	231GW19	05/22/06	Shallow	8.28	5.90	-0.24	-0.08	-0.15
	231GW18	05/22/06	Intermediate	10.6	-3.85			
	231GW17	05/22/06	Deep	11.68	-17.20			
	231GW19	03/06/06	Shallow	9.27	5.90	-0.10	-0.10	-0.10
	231GW18	03/06/06	Intermediate	10.21	-3.85			
	231GW17	03/06/06	Deep	11.52	-17.20			
	231GW19	11/28/05	Shallow	7.74	5.90	-0.22	-0.10	-0.15
	231GW18	11/28/05	Intermediate	9.87	-3.85			
	231GW17	11/28/05	Deep	11.17	-17.20			
	231GW19	08/29/05	Shallow	7.88	5.90	-0.22	-0.13	-0.17
	231GW18	08/29/05	Intermediate	10.02	-3.85			
	231GW17	08/29/05	Deep	11.77	-17.20			
	231GW19	05/23/05	Shallow	8.83	5.90	-0.19	-0.11	-0.15
	231GW18	05/23/05	Intermediate	10.73	-3.85			
	231GW17	05/23/05	Deep	12.26	-17.20			
	231GW19	03/14/05	Shallow	8.92	5.90	-0.17	-0.12	-0.14
	231GW18	03/14/05	Intermediate	10.59	-3.85			
	231GW17	03/14/05	Deep	12.13	-17.20			
	231GW19	12/13/04	Shallow	8.2	5.90	-0.19	-0.10	-0.14
	231GW18	12/13/04	Intermediate	10.03	-3.85			
	231GW17	12/13/04	Deep	11.32	-17.20			
	231GW19	08/09/04	Shallow	7.45	5.90	-0.21	-0.10	-0.15
	231GW18	08/09/04	Intermediate	9.49	-3.85			
	231GW17	08/09/04	Deep	10.82	-17.20			
	231GW19	05/24/04	Shallow	7.81	5.90	-0.21	-0.09	-0.14
	231GW18	05/24/04	Intermediate	9.88	-3.85			
	231GW17	05/24/04	Deep	11.12	-17.20			
	231GW19	03/08/04	Shallow	8.56	5.90	-0.10	-0.11	-0.11
	231GW18	03/08/04	Intermediate	9.58	-3.85			
	231GW17	03/08/04	Deep	11.08	-17.20			

Table A-10-8
Summary of Vertical Gradients at Well Clusters
Building 231/207 Area
Presidio of San Francisco, California

Well Cluster (WC)	Well Name	Date	Groundwater Zone	Groundwater Elevation (feet PLLW)	Screen Midpoint Elevation (feet PLLW)	Shallow/Intermediate Vertical Gradient (feet/foot) [1]	Intermediate/Deep Vertical Gradient (feet/foot) [1]	Shallow/Deep Vertical Gradient (feet/foot) [1]
WC-1	231GW19	12/01/03	Shallow	7.48	5.90	-0.19	-0.09	-0.13
	231GW18	12/01/03	Intermediate	9.30	-3.85			
	231GW17	12/01/03	Deep	10.52	-17.20			
	231GW19	08/11/03	Shallow	7.49	5.90	-0.19	-0.09	-0.13
	231GW18	08/11/03	Intermediate	9.33	-3.85			
	231GW17	08/11/03	Deep	10.52	-17.20			
	231GW19	06/02/03	Shallow	7.92	5.90	-0.18	-0.10	-0.13
	231GW18	06/02/03	Intermediate	9.63	-3.85			
	231GW17	06/02/03	Deep	10.9	-17.20			
	231GW19	03/10/03	Shallow	8.61	5.90	-0.11	-0.14	-0.13
	231GW18	03/10/03	Intermediate	9.66	-3.85			
	231GW17	03/10/03	Deep	11.55	-17.20			
WC-2	231GW21	05/22/06	Shallow	8.22	7.30	-0.10	-0.13	-0.12
	231GW06	05/22/06	Intermediate	9.32	-3.82			
	231GW20	05/22/06	Deep	11.56	-21.20			
	231GW21	03/06/06	Shallow	8.30	7.30	-0.10	-0.13	-0.12
	231GW06	03/06/06	Intermediate	9.43	-3.82			
	231GW20	03/06/06	Deep	11.65	-21.20			
	231GW21	11/28/05	Shallow	7.88	7.30	-0.11	-0.11	-0.11
	231GW06	11/28/05	Intermediate	9.08	-3.82			
	231GW20	11/28/05	Deep	11.07	-21.20			
	231GW21	08/29/05	Shallow	8.09	7.30	-0.11	-0.13	-0.12
	231GW06	08/29/05	Intermediate	9.33	-3.82			
	231GW20	08/29/05	Deep	11.56	-21.20			
	231GW21	05/23/05	Shallow	8.75	7.30	-0.13	-0.12	-0.12
	231GW06	05/23/05	Intermediate	10.20	-3.82			
	231GW20	05/23/05	Deep	12.23	-21.20			
	231GW21	03/14/05	Shallow	8.75	7.30	-0.11	-0.13	-0.12
	231GW06	03/14/05	Intermediate	9.96	-3.82			
	231GW20	03/14/05	Deep	12.15	-21.20			

Table A-10-8
Summary of Vertical Gradients at Well Clusters
Building 231/207 Area
Presidio of San Francisco, California

Well Cluster (WC)	Well Name	Date	Groundwater Zone	Groundwater Elevation (feet PLLW)	Screen Midpoint Elevation (feet PLLW)	Shallow/Intermediate Vertical Gradient (feet/foot) [1]	Intermediate/Deep Vertical Gradient (feet/foot) [1]	Shallow/Deep Vertical Gradient (feet/foot) [1]
WC-2	231GW21	12/13/04	Shallow	8.17	7.30	-0.13	-0.10	-0.12
	231GW06	12/13/04	Intermediate	9.64	-3.82			
	231GW20	12/13/04	Deep	11.45	-21.20			
	231GW21	08/09/04	Shallow	7.87	7.30	-0.10	-0.11	-0.11
	231GW06	08/09/04	Intermediate	9.01	-3.82			
	231GW20	08/09/04	Deep	10.89	-21.20			
	231GW21	05/24/04	Shallow	8.21	7.30	-0.10	-0.10	-0.10
	231GW06	05/24/04	Intermediate	9.28	-3.82			
	231GW20	05/24/04	Deep	11.07	-21.20			
	231GW21	03/08/04	Shallow	8.59	7.30	-0.10	-0.10	-0.10
	231GW06	03/08/04	Intermediate	9.73	-3.82			
	231GW20	03/08/04	Deep	11.53	-21.20			
	231GW21	12/01/03	Shallow	7.64	7.30	-0.12	-0.09	-0.10
	231GW06	12/01/03	Intermediate	8.97	-3.82			
	231GW20	12/01/03	Deep	10.48	-21.20			
	231GW21	08/11/03	Shallow	7.83	7.30	-0.08	-0.08	-0.08
	231GW06	08/11/03	Intermediate	8.74	-3.82			
	231GW20	08/11/03	Deep	10.12	-21.20			
	231GW21	06/02/03	Shallow	8.15	7.30	-0.06	-0.08	-0.07
	231GW06	06/02/03	Intermediate	8.84	-3.82			
	231GW20	06/02/03	Deep	10.25	-21.20			
	231GW21	03/10/03	Shallow	8.37	7.30	-0.13	-0.08	-0.10
	231GW06	03/10/03	Intermediate	9.86	-3.82			
	231GW20	03/10/03	Deep	11.28	-21.20			
WC-3	231GW16	05/22/06	Shallow	5.12	5.00	-0.24	-0.18	-0.20
	231GW15	05/22/06	Intermediate	7.63	-5.50			
	231GW13	05/22/06	Deep	11.53	-27.1			
	231GW16	03/06/06	Shallow	5.27	5.00	-0.22	-0.18	-0.20
	231GW15	03/06/06	Intermediate	7.62	-5.50			
	231GW13	03/06/06	Deep	11.55	-27.1			

Table A-10-8
Summary of Vertical Gradients at Well Clusters
Building 231/207 Area
Presidio of San Francisco, California

Well Cluster (WC)	Well Name	Date	Groundwater Zone	Groundwater Elevation (feet PLLW)	Screen Midpoint Elevation (feet PLLW)	Shallow/Intermediate Vertical Gradient (feet/foot) [1]	Intermediate/Deep Vertical Gradient (feet/foot) [1]	Shallow/Deep Vertical Gradient (feet/foot) [1]
WC-3	231GW16	11/28/05	Shallow	5.22	5.00	-0.22	-0.16	-0.18
	231GW15	11/28/05	Intermediate	7.50	-5.50			
	231GW13	11/28/05	Deep	11.00	-27.1			
	231GW16	08/29/05	Shallow	5.28	5.00	-0.16	-0.20	-0.19
	231GW15	08/29/05	Intermediate	7.01	-5.50			
	231GW13	08/29/05	Deep	11.43	-27.1			
	231GW16	05/23/05	Shallow	5.37	5.00	-0.27	-0.18	-0.21
	231GW15	05/23/05	Intermediate	8.23	-5.50			
	231GW13	05/23/05	Deep	12.03	-27.1			
	231GW16	03/14/05	Shallow	5.44	5.00	-0.23	-0.19	-0.21
	231GW15	03/14/05	Intermediate	7.84	-5.50			
	231GW13	03/14/05	Deep	12.04	-27.1			
	231GW16	12/13/04	Shallow	5.3	5.00	-0.23	-0.16	-0.19
	231GW15	12/13/04	Intermediate	7.70	-5.50			
	231GW13	12/13/04	Deep	11.26	-27.1			
	231GW16	08/09/04	Shallow	5.23	5.00	-0.13	-0.19	-0.17
	231GW15	08/09/04	Intermediate	6.58	-5.50			
	231GW13	08/09/04	Deep	10.66	-27.1			
	231GW16	05/24/04	Shallow	5.17	5.00	-0.20	-0.17	-0.18
	231GW15	05/24/04	Intermediate	7.29	-5.50			
	231GW13	05/24/04	Deep	10.96	-27.1			
	231GW16	03/08/04	Shallow	5.28	5.00	-0.19	-0.19	-0.19
	231GW15	03/08/04	Intermediate	7.26	-5.50			
	231GW13	03/08/04	Deep	11.42	-27.1			
	231GW16	12/01/03	Shallow	5.27	5.00	-0.14	-0.17	-0.16
	231GW15	12/01/03	Intermediate	6.73	-5.50			
	231GW13	12/01/03	Deep	10.35	-27.1			

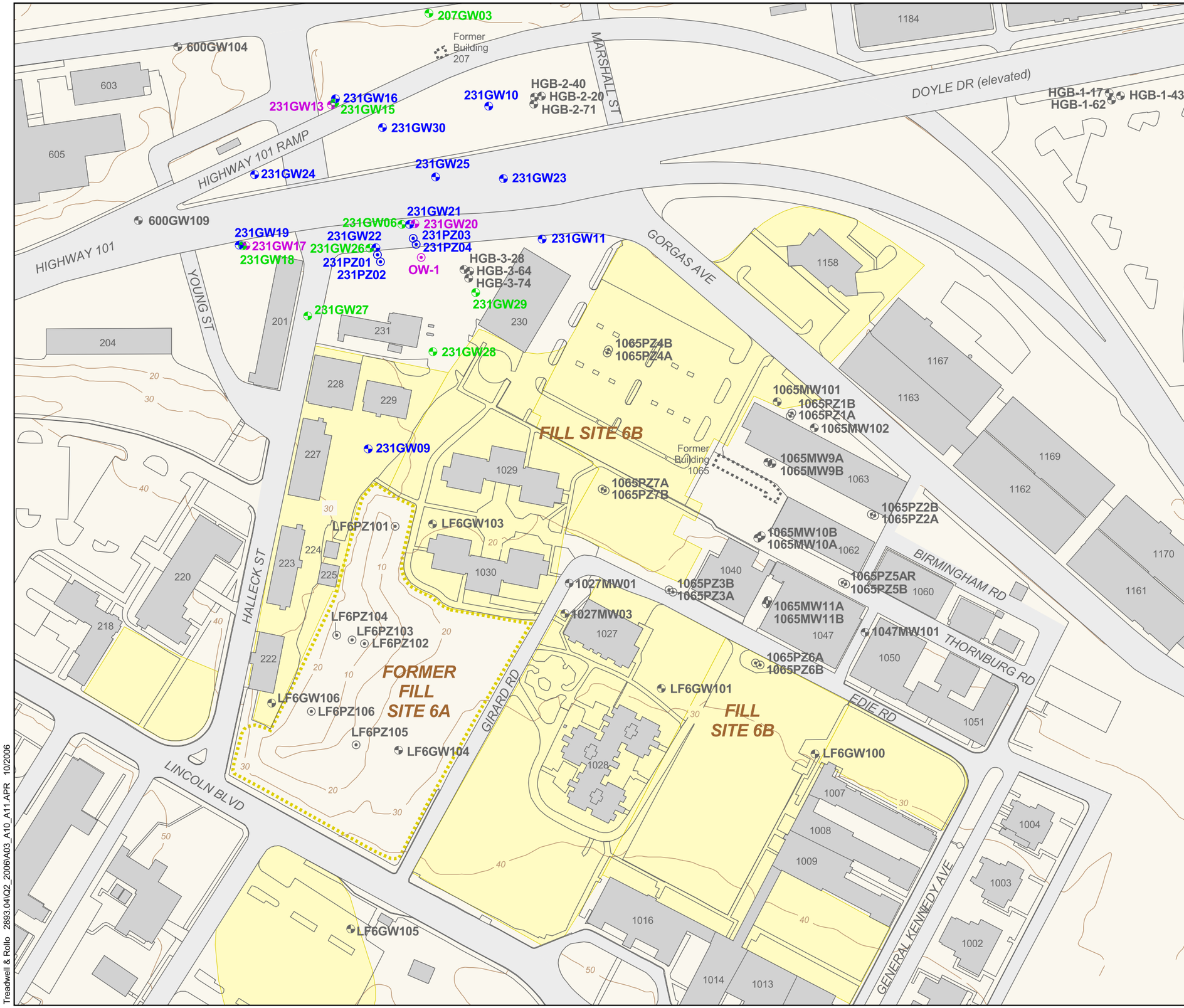
Table A-10-8
Summary of Vertical Gradients at Well Clusters
Building 231/207 Area
Presidio of San Francisco, California

Well Cluster (WC)	Well Name	Date	Groundwater Zone	Groundwater Elevation (feet PLLW)	Screen Midpoint Elevation (feet PLLW)	Shallow/Intermediate Vertical Gradient (feet/foot) [1]	Intermediate/Deep Vertical Gradient (feet/foot) [1]	Shallow/Deep Vertical Gradient (feet/foot) [1]
WC-3	231GW16	08/11/03	Shallow	5.29	5.00	-0.16	-0.14	-0.15
	231GW15	08/11/03	Intermediate	7.00	-5.50			
	231GW13	08/11/03	Deep	10.09	-27.1			
	231GW16	06/02/03	Shallow	5.17	5.00	-0.13	-0.17	-0.16
	231GW15	06/02/03	Intermediate	6.57	-5.50			
	231GW13	06/02/03	Deep	10.24	-27.1			
	231GW16	03/10/03	Shallow	5.56	5.00	-0.24	-0.15	-0.18
	231GW15	03/10/03	Intermediate	8.13	-5.50			
	231GW13	03/10/03	Deep	11.31	-27.10			
WC-4	231GW22	05/22/06	Shallow	9.57	9.67	0.01	NC	NC
	231GW26	05/22/06	Intermediate	9.4	-1.99			
	231GW22	03/06/06	Shallow	9.44	9.67	-0.02	NC	NC
	231GW26	03/06/06	Intermediate	9.62	-1.99			
	231GW22	11/28/05	Shallow	8.99	9.67	-0.01	NC	NC
	231GW26	11/28/05	Intermediate	9.15	-1.99			
	231GW22	08/29/05	Shallow	9.35	9.67	-0.01	NC	NC
	231GW26	08/29/05	Intermediate	9.41	-1.99			
	231GW22	05/23/05	Shallow	10.37	9.67	0.01	NC	NC
	231GW26	05/23/05	Intermediate	10.26	-1.99			
	231GW22	03/14/05	Shallow	9.85	9.67	-0.03	NC	NC
	231GW26	03/14/05	Intermediate	10.2	-1.99			
	231GW22	12/13/04	Shallow	9.06	9.67	-0.06	NC	NC
	231GW26	12/13/04	Intermediate	9.72	-1.99			
	231GW22	08/09/04	Shallow	9.03	9.67	-0.01	NC	NC
	231GW26	08/09/04	Intermediate	9.12	-1.99			
	231GW22	05/24/04	Shallow	9.34	9.67	0.00	NC	NC
	231GW26	05/24/04	Intermediate	9.39	-1.99			
	231GW22	03/08/04	Shallow	9.57	9.67	-0.02	NC	NC
	231GW26	03/08/04	Intermediate	9.76	-1.99			
	231GW22	12/01/03	Shallow	8.65	9.67	-0.03	NC	NC
	231GW26	12/01/03	Intermediate	9.01	-1.99			

Table A-10-8
Summary of Vertical Gradients at Well Clusters
Building 231/207 Area
Presidio of San Francisco, California

Well Cluster (WC)	Well Name	Date	Groundwater Zone	Groundwater Elevation (feet PLLW)	Screen Midpoint Elevation (feet PLLW)	Shallow/Intermediate Vertical Gradient (feet/foot) [1]	Intermediate/Deep Vertical Gradient (feet/foot) [1]	Shallow/Deep Vertical Gradient (feet/foot) [1]
WC-4	231GW22	08/11/03	Shallow	9.00	9.67	0.01	NC	NC
	231GW26	08/11/03	Intermediate	8.84	-1.99			
	231GW22	06/02/03	Shallow	9.41	9.67	0.04	NC	NC
	231GW26	06/02/03	Intermediate	8.91	-1.99			
	231GW22	03/10/03	Shallow	9.66	9.67	-0.01	NC	NC
	231GW26	03/10/03	Intermediate	9.8	-1.99			

Notes
NC - not calculated
1 - Vertical gradients are calculated by dividing the distance in groundwater elevations between two adjacent wells screened in separate water-bearing zones by the vertical distance between the midpoint elevations of the two well screens (Table 3). In each case, the value for the shallower well is subtracted from that of the deeper well. A positive value indicates a downward vertical gradient, while a negative number indicates an upward vertical gradient.
feet PLLW - feet above Presidio Lower Low Water vertical datum



N

150 0 150 Feet

LEGEND

231GW21	Shallow Groundwater Monitoring Well
231PZ02	Shallow Piezometer
231GW15	Intermediate Groundwater Monitoring Well
231GW20	Deep Groundwater Monitoring Well
OW-1	Deep Piezometer
HGB-2-40	Adjacent Study Area Well
1065PZ1A	Adjacent Study Area Piezometer
	Topographic Contour (Contour Interval: 10 ft)
	Former Fill Site 6A Excavation Boundary
	Former Building Outline
	Approximate Lateral Extent of Fill Site 6B
201	Building and Number

Notes:
Location of limits of fill from Revised Main Installation Sites Feasibility Study (EKI, 2003).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datum: (topography) North American Vertical Datum, NAVD88

BUILDING 231/207 AREA SITE PLAN

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P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
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FIGURE A-10-1

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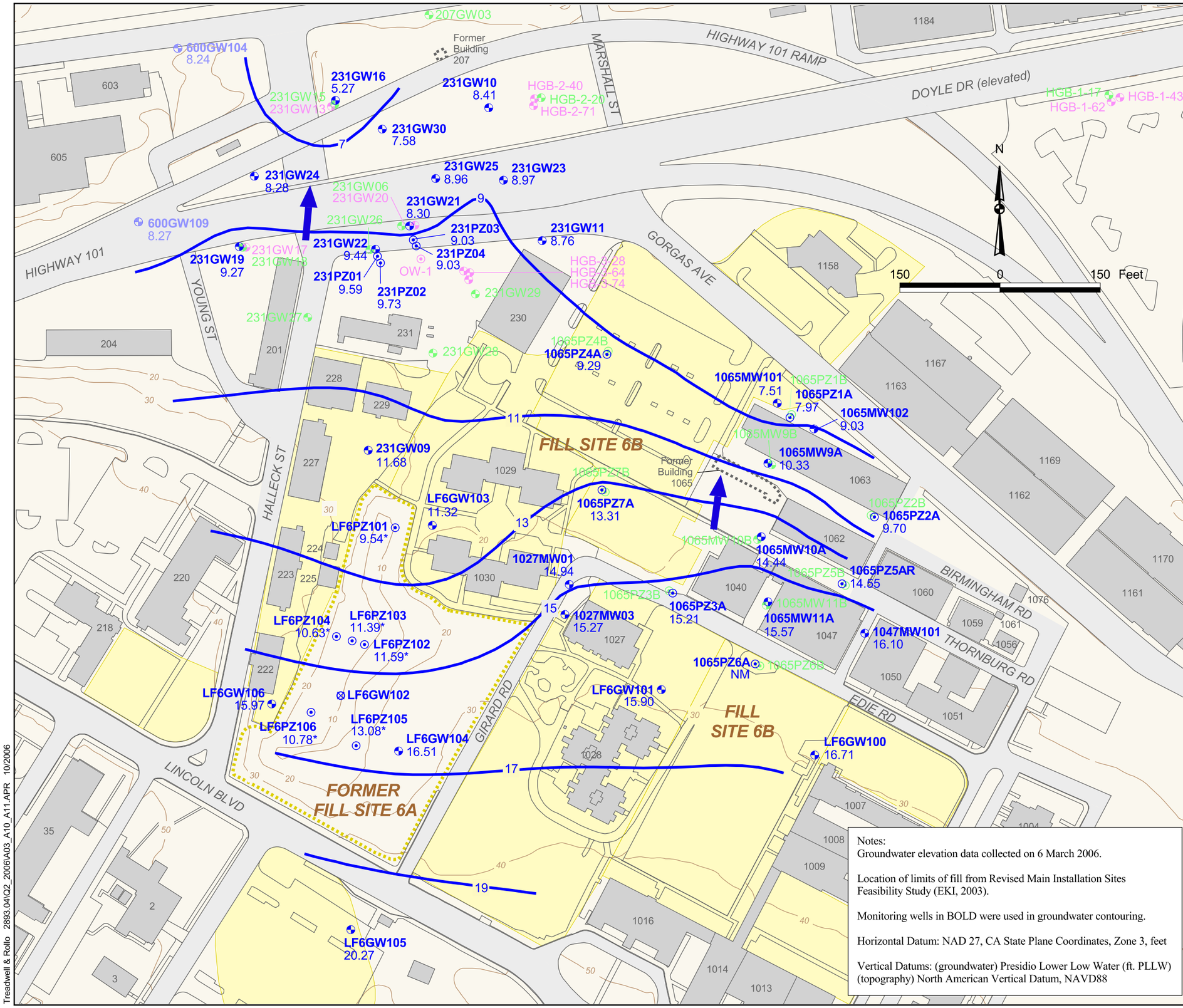

LEGEND

231GW21 8.30	Shallow Groundwater Monitoring Well March 2006 Groundwater Elevation
231PZ01 9.59	Shallow Piezometer March 2006 Groundwater Elevation
*	Shallow Piezometer not used for groundwater contouring.
NM	Not measured since covered in bark and dirt.
LF6GW102	Abandoned Shallow Groundwater Monitoring Well
600GW104 8.24	Adjacent Study Area Shallow Groundwater Well March 2006 Groundwater Elevation
231GW15	Intermediate Groundwater Monitoring Well
1065PZ1B	Intermediate Piezometer
231GW17	Deep Groundwater Monitoring Well
OW-1	Deep Piezometer
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval: 2 ft)
	Topographic Contour (Contour Interval: 10 ft)
	Former Building Outline
	Former Fill Site 6A Excavation Boundary
	Approximate Lateral Extent of Fill Site 6B
201	Building and Number

BUILDING 231/207, BUILDING 1065/1027, AND FILL SITE 6
6 MARCH 2006
SHALLOW GROUNDWATER ELEVATION MAP

Treadwell&Rollo

Notes:
Groundwater elevation data collected on 6 March 2006.

Location of limits of fill from Revised Main Installation Sites Feasibility Study (EKI, 2003).

Monitoring wells in BOLD were used in groundwater contouring.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

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San Francisco, CA
94129-0052
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FIGURE A-10-2

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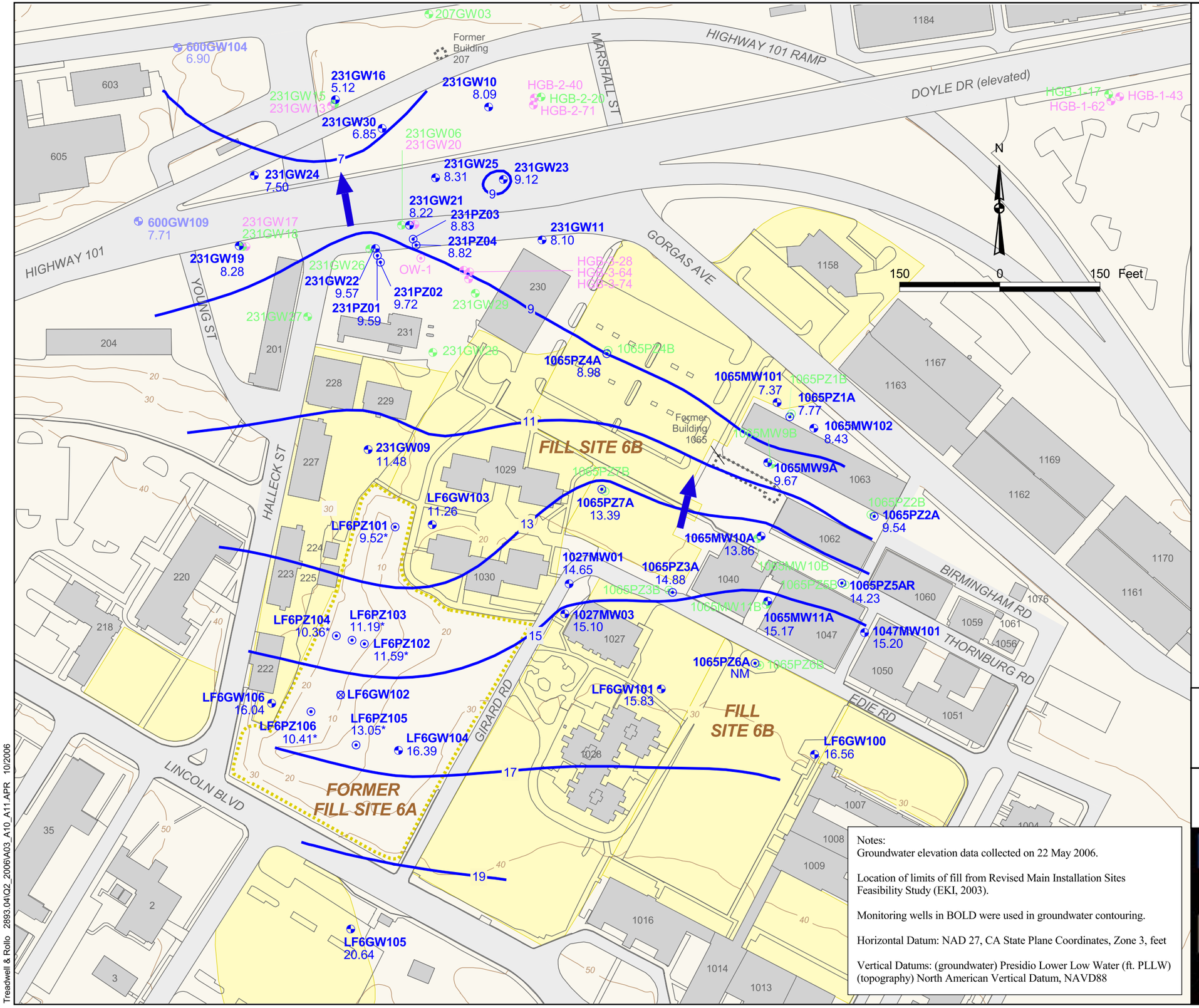

LEGEND

231GW21 8.22	Shallow Groundwater Monitoring Well May 2006 Groundwater Elevation
231PZ01 9.59	Shallow Piezometer May 2006 Groundwater Elevation
*	Shallow Piezometer not used for groundwater contouring.
NM	Not measured since covered in bark and dirt.
LF6GW102	Abandoned Shallow Groundwater Monitoring Well
600GW104 6.90	Adjacent Study Area Shallow Groundwater Well March 2006 Groundwater Elevation
231GW15	Intermediate Groundwater Monitoring Well
1065PZ1B	Intermediate Piezometer
231GW17	Deep Groundwater Monitoring Well
OW-1	Deep Piezometer
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval: 2 ft)
	Topographic Contour (Contour Interval: 10 ft)
	Former Building Outline
	Former Fill Site 6A Excavation Boundary
	Approximate Lateral Extent of Fill Site 6B
201	Building and Number

BUILDING 231/207, BUILDING 1065/1027, AND FILL SITE 6
22 MAY 2006
SHALLOW GROUNDWATER ELEVATION MAP

Notes:
Groundwater elevation data collected on 22 May 2006.

Location of limits of fill from Revised Main Installation Sites Feasibility Study (EKI, 2003).

Monitoring wells in BOLD were used in groundwater contouring.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

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San Francisco, CA
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FIGURE A-10-3

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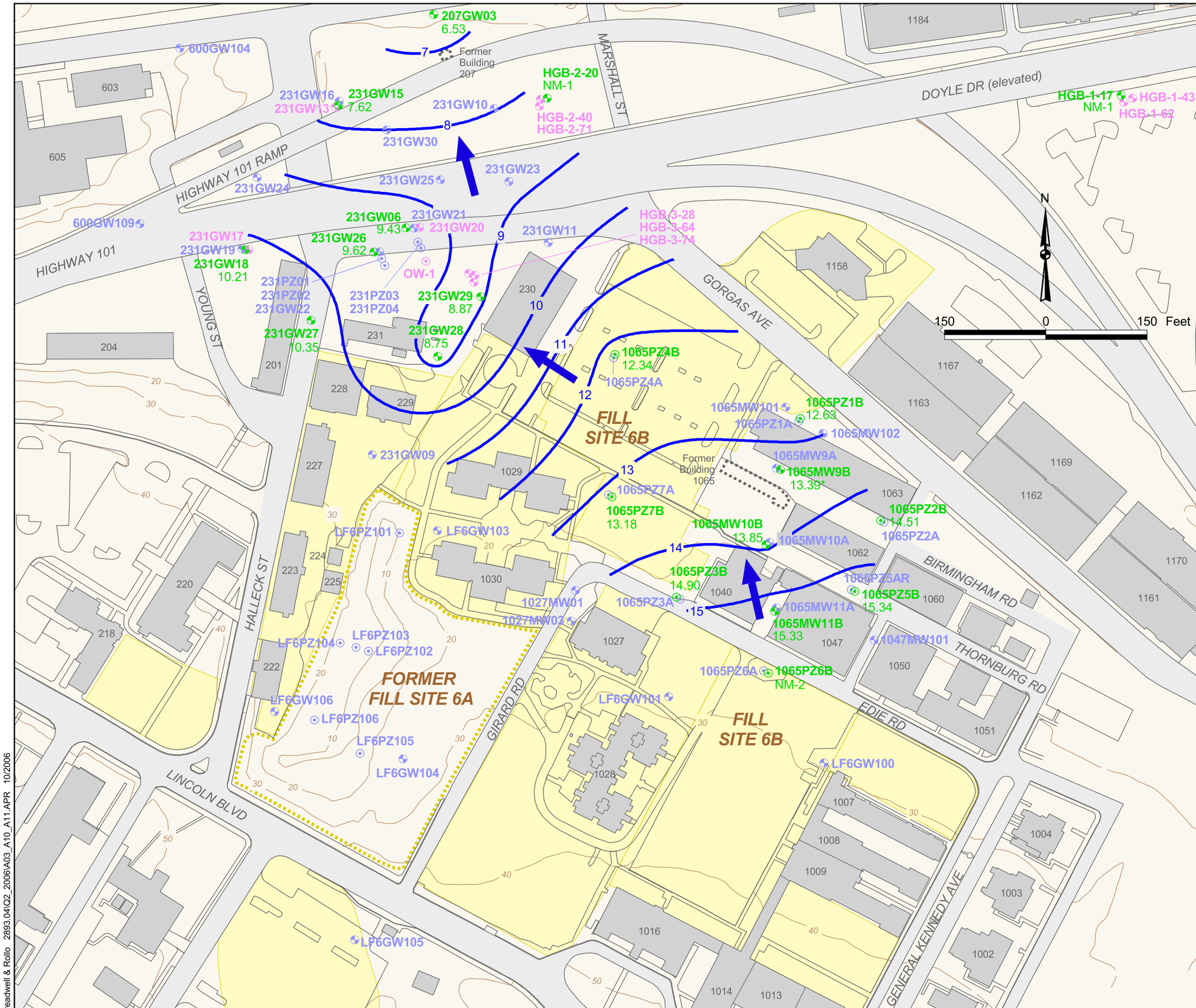

LEGEND

231GW26 9.62	Intermediate Groundwater Monitoring Well March 2006 Groundwater Elevation
1065PZ1B 12.63	Intermediate Piezometer March 2006 Groundwater Elevation
NM	Not Measured
NM-1	Well approved for removal from the groundwater monitoring program.
NM-2	Well covered with bark and dirt.
*	Well not used in contouring because groundwater within it was at or above the top of casing. Value posted is top of casing elevation.
231GW21	Shallow Groundwater Monitoring Well
1065PZ1A	Shallow Piezometer
231GW20	Deep Groundwater Monitoring Well
OW-1	Deep Piezometer
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval: 1 ft)
	Topographic Contour (Contour Interval: 10 ft)
	Former Building Outline
	Former Fill Site 6A Excavation Boundary
	Approximate Lateral Extent of Fill Site 6B
201	Building and Number

Notes:
Groundwater elevation data collected on 6 March 2006.

Monitoring wells in BOLD were used in groundwater contouring.

The HBG wells were approved for removal from the groundwater monitoring program prior to the Third Quarter 2005.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW)
(topography) North American Vertical Datum, NAVD88

BUILDING 231/207 AND BUILDING 1065
6 MARCH 2006
INTERMEDIATE GROUNDWATER ELEVATION MAP

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P.O. Box 29052
San Francisco, CA
94129-0052
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FIGURE A-10-4

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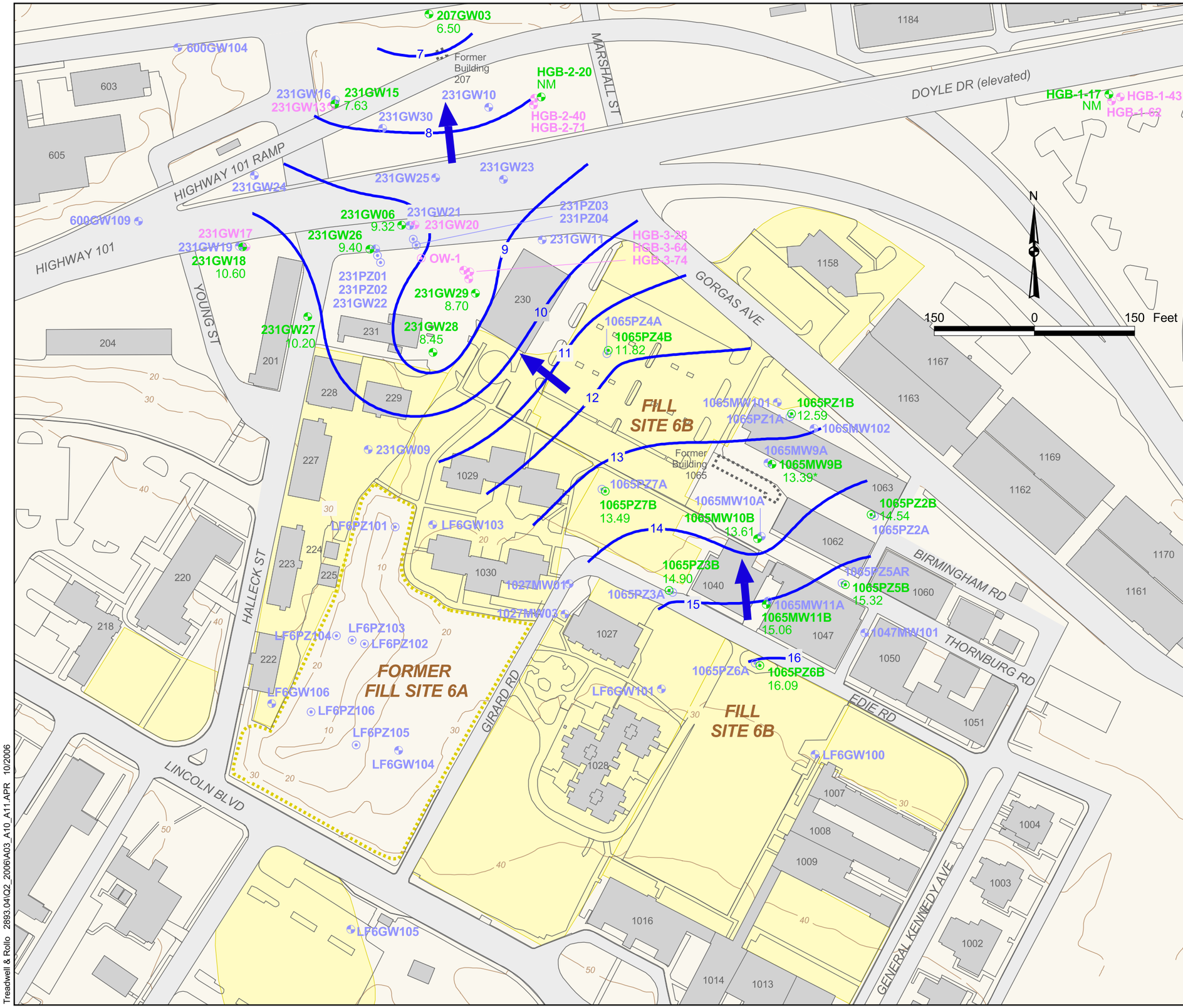

LEGEND

231GW26 9.40	Intermediate Groundwater Monitoring Well May 2006 Groundwater Elevation
1065PZ1B 12.59	Intermediate Piezometer May 2006 Groundwater Elevation
NM	Not Measured. Well approved for removal from the groundwater monitoring program.
*	Well not used in contouring because groundwater within it was at or above the top of casing. Value posted is top of casing elevation.
231GW21	Shallow Groundwater Monitoring Well
1065PZ1A	Shallow Piezometer
231GW20	Deep Groundwater Monitoring Well
OW-1	Deep Piezometer
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval: 1 ft)
	Topographic Contour (Contour Interval: 10 ft)
	Former Building Outline
	Former Fill Site 6A Excavation Boundary
	Approximate Lateral Extent of Fill Site 6B
201	Building and Number

Notes:
Groundwater elevation data collected on 22 May 2006.

Monitoring wells in BOLD were used in groundwater contouring.

The HBG wells were approved for removal from the groundwater monitoring program prior to the Third Quarter 2005.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW)
(topography) North American Vertical Datum, NAVD88

BUILDING 231/207 AND BUILDING 1065
22 MAY 2006
INTERMEDIATE GROUNDWATER ELEVATION MAP

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San Francisco, CA
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FIGURE A-10-5

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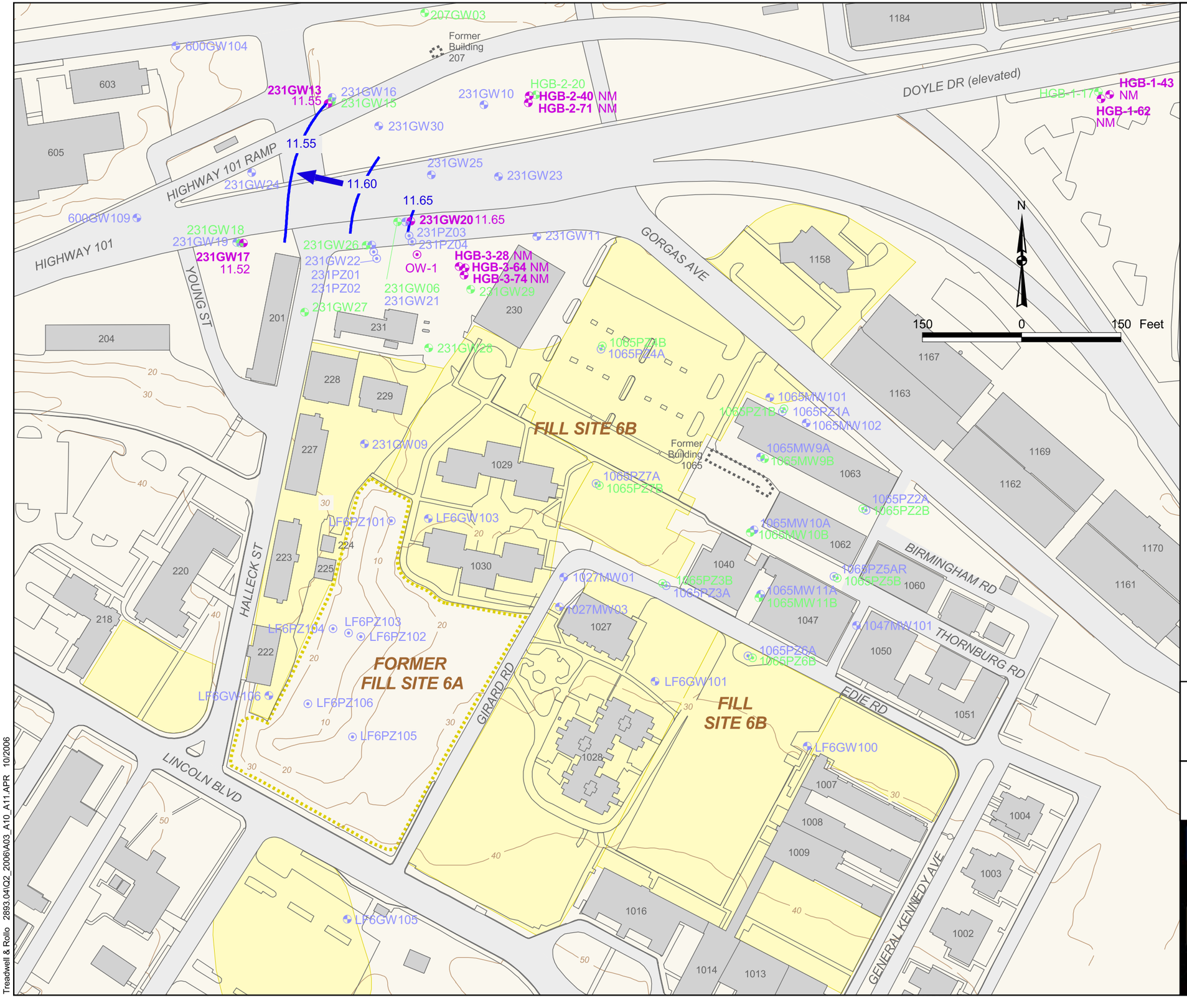

LEGEND

231GW20 11.65	Deep Groundwater Monitoring Well March 2006 Groundwater Elevation
NM	Not Measured. Well approved for removal from the groundwater monitoring program.
OW-1	Deep Piezometer
231GW21	Shallow Groundwater Monitoring Well
1065PZ1A	Shallow Piezometer
231GW21	Intermediate Groundwater Monitoring Well
1065PZ1A	Intermediate Piezometer
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval: 0.05 ft)
	Former Building Outline
	Topographic Contour (Contour Interval: 10 ft)
	Former Fill Site 6A Excavation Boundariy
	Approximate Lateral Extent of Fill Site 6B
201	Building and Number

Notes:
Groundwater elevation data collected on 6 March 2006.

Monitoring wells in BOLD were used in groundwater contouring.

The HBG wells were approved for removal from the groundwater monitoring program prior to the Third Quarter 2005.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

BUILDING 231/207
6 MARCH 2006
DEEP GROUNDWATER
ELEVATION MAP

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FIGURE A-10-6

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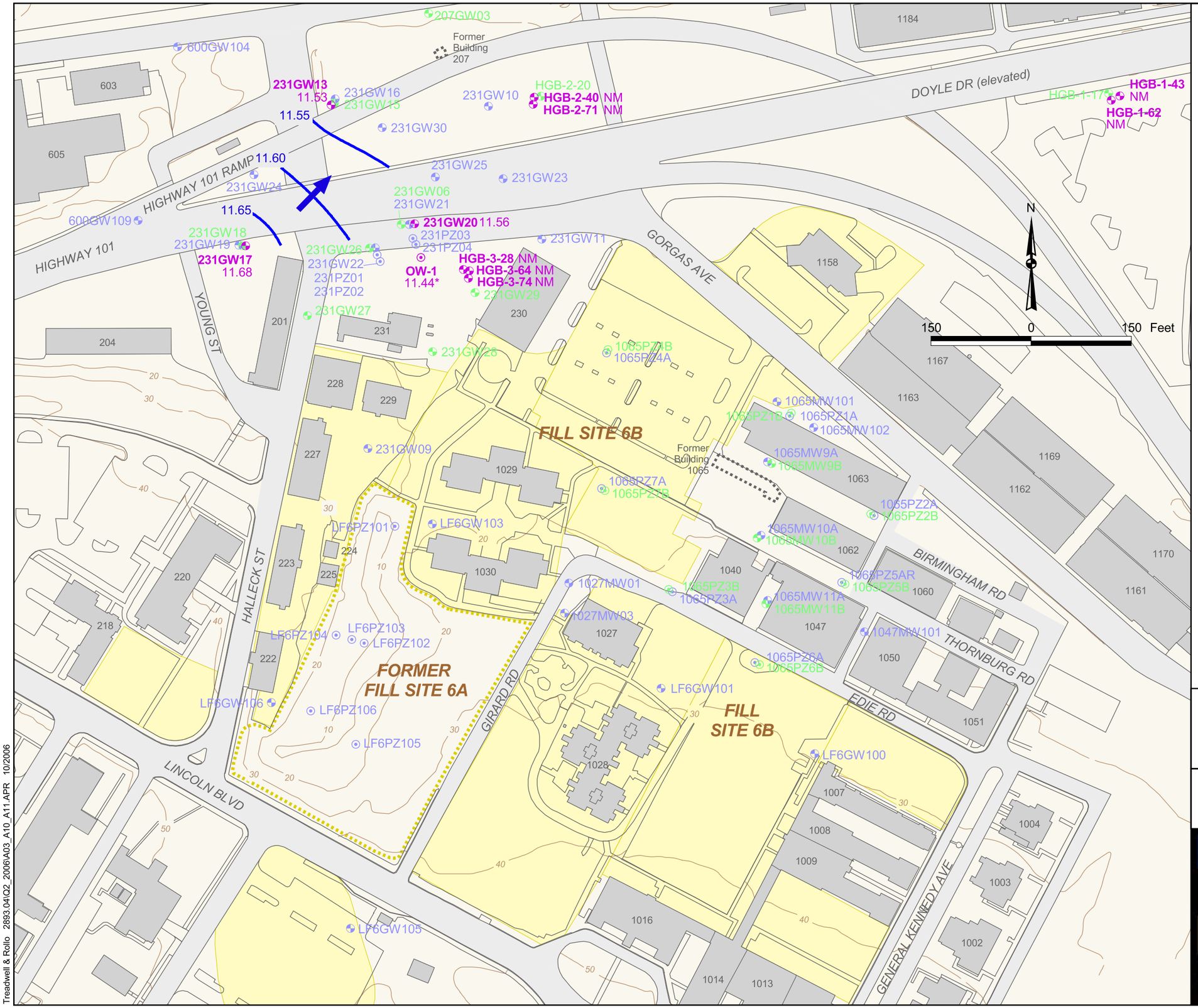

LEGEND

231GW20 11.56	Deep Groundwater Monitoring Well May 2006 Groundwater Elevation
OW-1	Deep Piezometer May 2006 Groundwater Elevation
*	Deep Piezometer not used for groundwater contouring.
NM	Not Measured. Well approved for removal from the groundwater monitoring program.
231GW21	Shallow Groundwater Monitoring Well
1065PZ1A	Shallow Piezometer
231GW21	Intermediate Groundwater Monitoring Well
1065PZ1A	Intermediate Piezometer
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval: 0.05 ft)
	Former Building Outline
	Topographic Contour (Contour Interval: 10 ft)
	Former Fill Site 6A Excavation Boundariy
	Approximate Lateral Extent of Fill Site 6B
201	Building and Number

Notes:
Groundwater elevation data collected on 22 May 2006.

Monitoring wells in BOLD were used in groundwater contouring.

The HBG wells were approved for removal from the groundwater monitoring program prior to the Third Quarter 2005.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW)
(topography) North American Vertical Datum, NAVD88

BUILDING 231/207
22 MAY 2006
DEEP GROUNDWATER
ELEVATION MAP

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FIGURE A-10-7

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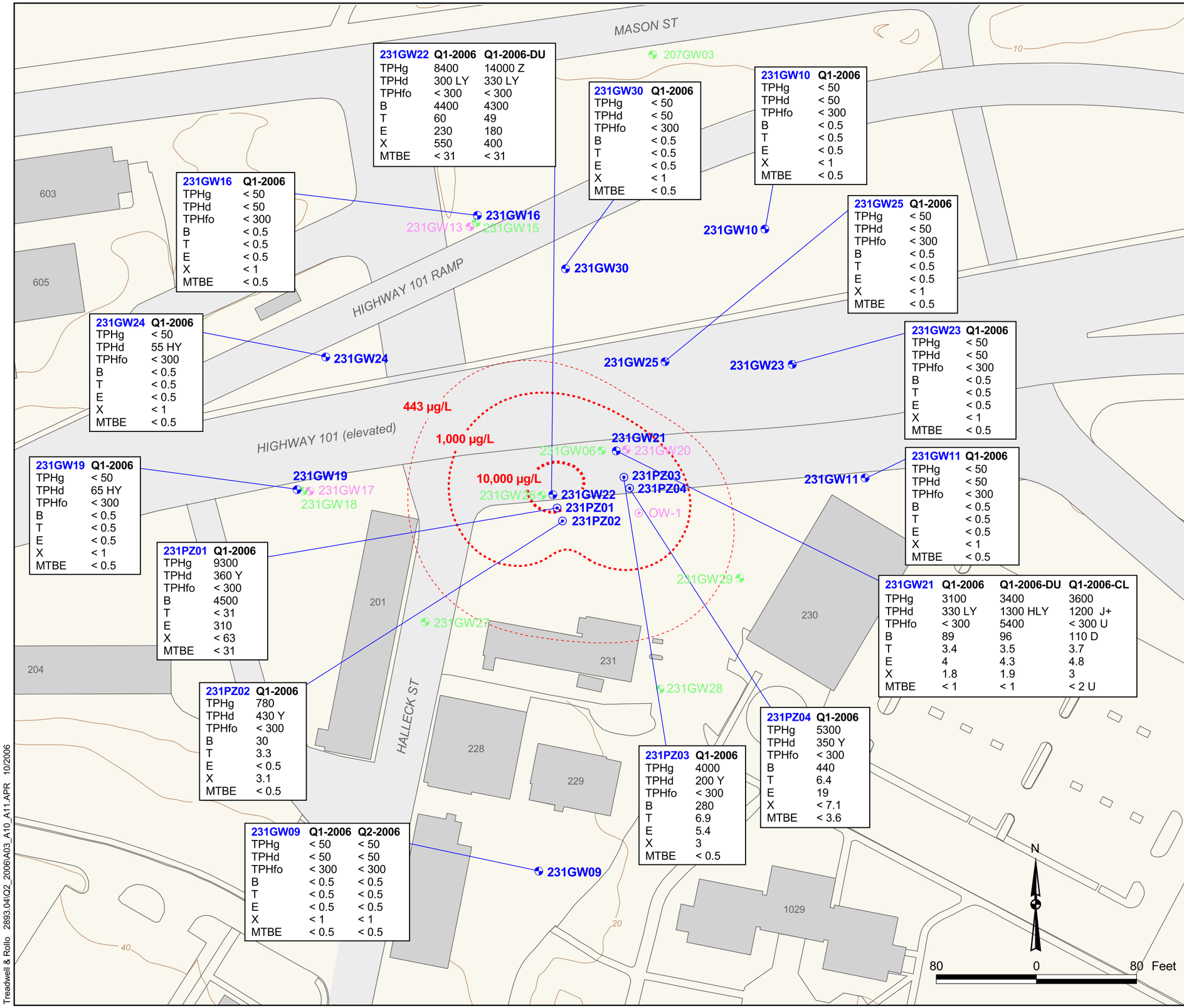


231GW22	Q1-2006	Q1-2006-DU
TPHg	8400	14000 Z
TPHd	300 LY	330 LY
TPHfo	< 300	< 300
B	4400	4300
T	60	49
E	230	180
X	550	400
MTBE	< 31	< 31

231GW30	Q1-2006
TPHg	< 50
TPHd	< 50
TPHfo	< 300
B	< 0.5
T	< 0.5
E	< 0.5
X	< 1
MTBE	< 0.5

231GW10	Q1-2006
TPHg	< 50
TPHd	< 50
TPHfo	< 300
B	< 0.5
T	< 0.5
E	< 0.5
X	< 1
MTBE	< 0.5

231GW16	Q1-2006
TPHg	< 50
TPHd	< 50
TPHfo	< 300
B	< 0.5
T	< 0.5
E	< 0.5
X	< 1
MTBE	< 0.5

231GW25	Q1-2006
TPHg	< 50
TPHd	< 50
TPHfo	< 300
B	< 0.5
T	< 0.5
E	< 0.5
X	< 1
MTBE	< 0.5

231GW24	Q1-2006
TPHg	< 50
TPHd	55 HY
TPHfo	< 300
B	< 0.5
T	< 0.5
E	< 0.5
X	< 1
MTBE	< 0.5

231GW23	Q1-2006
TPHg	< 50
TPHd	< 50
TPHfo	< 300
B	< 0.5
T	< 0.5
E	< 0.5
X	< 1
MTBE	< 0.5

231GW19	Q1-2006
TPHg	< 50
TPHd	65 HY
TPHfo	< 300
B	< 0.5
T	< 0.5
E	< 0.5
X	< 1
MTBE	< 0.5

231GW11	Q1-2006
TPHg	< 50
TPHd	< 50
TPHfo	< 300
B	< 0.5
T	< 0.5
E	< 0.5
X	< 1
MTBE	< 0.5

231PZ01	Q1-2006
TPHg	9300
TPHd	360 Y
TPHfo	< 300
B	4500
T	< 31
E	310
X	< 63
MTBE	< 31

231GW21	Q1-2006	Q1-2006-DU	Q1-2006-CL
TPHg	3100	3400	3600
TPHd	330 LY	1300 HLY	1200 J+
TPHfo	< 300	5400	< 300 U
B	89	96	110 D
T	3.4	3.5	3.7
E	4	4.3	4.8
X	1.8	1.9	3
MTBE	< 1	< 1	< 2 U

231PZ02	Q1-2006
TPHg	780
TPHd	430 Y
TPHfo	< 300
B	30
T	3.3
E	< 0.5
X	3.1
MTBE	< 0.5

231PZ04	Q1-2006
TPHg	5300
TPHd	350 Y
TPHfo	< 300
B	440
T	6.4
E	19
X	< 7.1
MTBE	< 3.6

231PZ03	Q1-2006
TPHg	4000
TPHd	200 Y
TPHfo	< 300
B	280
T	6.9
E	5.4
X	3
MTBE	< 0.5

231GW09	Q1-2006	Q2-2006
TPHg	< 50	< 50
TPHd	< 50	< 50
TPHfo	< 300	< 300
B	< 0.5	< 0.5
T	< 0.5	< 0.5
E	< 0.5	< 0.5
X	< 1	< 1
MTBE	< 0.5	< 0.5

LEGEND

- 231GW21 Shallow Groundwater Monitoring Well
- 231PZ03 Shallow Piezometer
- 231GW15 Intermediate Groundwater Monitoring Well
- 231GW17 Deep Groundwater Monitoring Well
- OW-1 Deep Piezometer
- Approximate TPHg freshwater protection zone exceedance contour (443 µg/L)
- Approximate TPHg (1,000 µg/L) exceedance contour
- Approximate TPHg (10,000 µg/L) exceedance contour
- Topographic Contour (Contour Interval : 10 ft)
- 201 Building and Number

Notes:
Monitoring well 231GW09 was the only well scheduled to be sampled during the Second Quarter 2006 in accordance with the proposed plan.

Groundwater concentration data in µg/L - micrograms per liter

TPHg - Total Petroleum Hydrocarbons as Gasoline
TPHd - Total Petroleum Hydrocarbons as Diesel
TPHfo - Total Petroleum Hydrocarbons as Fuel Oil
B - Benzene
T - Toluene
E - Ethylbenzene
X - Xylenes
MTBE - Methyl tert-Butyl Ether

DU - Blind Duplicate
CL - Quality Control Duplicate

Refer to Table 11 for data qualifiers.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (topography) North American Vertical Datum, NAVD88

BUILDING 231/207 AREA
2006 CHEMICAL CONCENTRATION MAP
TPH, BTEX, AND MTBE
IN SHALLOW GROUNDWATER

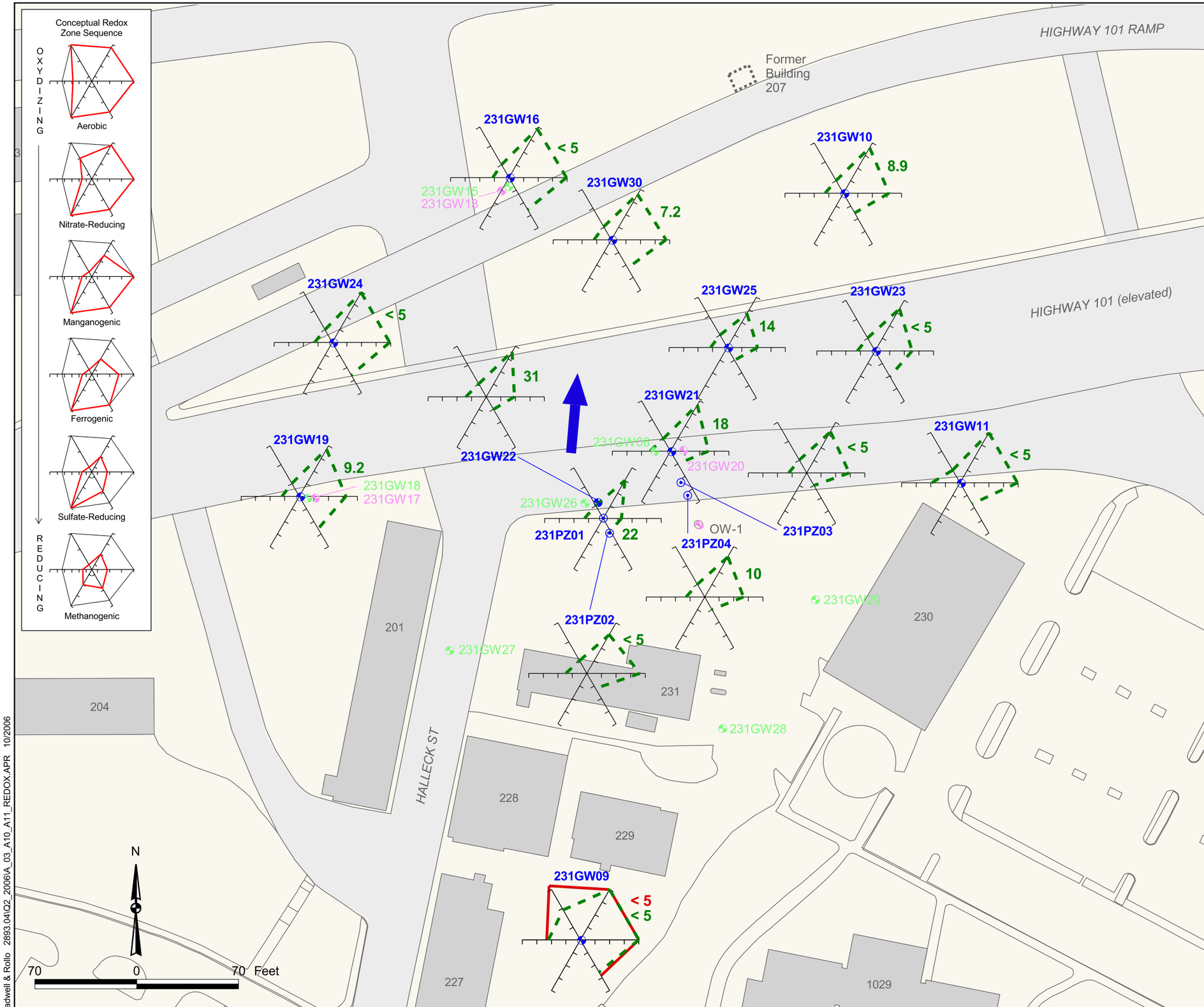
Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315
October 2006

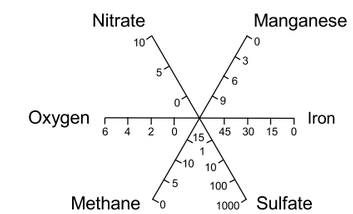
FIGURE A-10-8

Treadwell & Rollo 2893.04\Q2_2006\A03_A10_A11.APR 10/2006



LEGEND

231GW21	Shallow Groundwater Monitoring Well
231PZ03	Shallow Piezometer
231GW15	Intermediate Groundwater Monitoring Well
231GW17	Deep Groundwater Monitoring Well
OW-1	Temporary piezometer, location approximate
	Approximate Direction of Groundwater Flow
201	Building and Number



Note: All axes are in normal scale, groundwater concentrations are in milligrams per liter (mg/L).

	Q2-2006 Groundwater Concentrations
< 5	Q2-2006 Dissolved Arsenic Concentration (µg/L) (EPA Method SW6010/SW6020)
	Q1-2006 Groundwater Concentrations
31	Q1-2006 Dissolved Arsenic Concentration (µg/L) (EPA Method SW6010/SW6020)

Notes:
Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

BUILDING 231/207 AREA
REDOX DIAGRAMS FOR
SHALLOW GROUNDWATER

Treadwell&Rollo

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Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315

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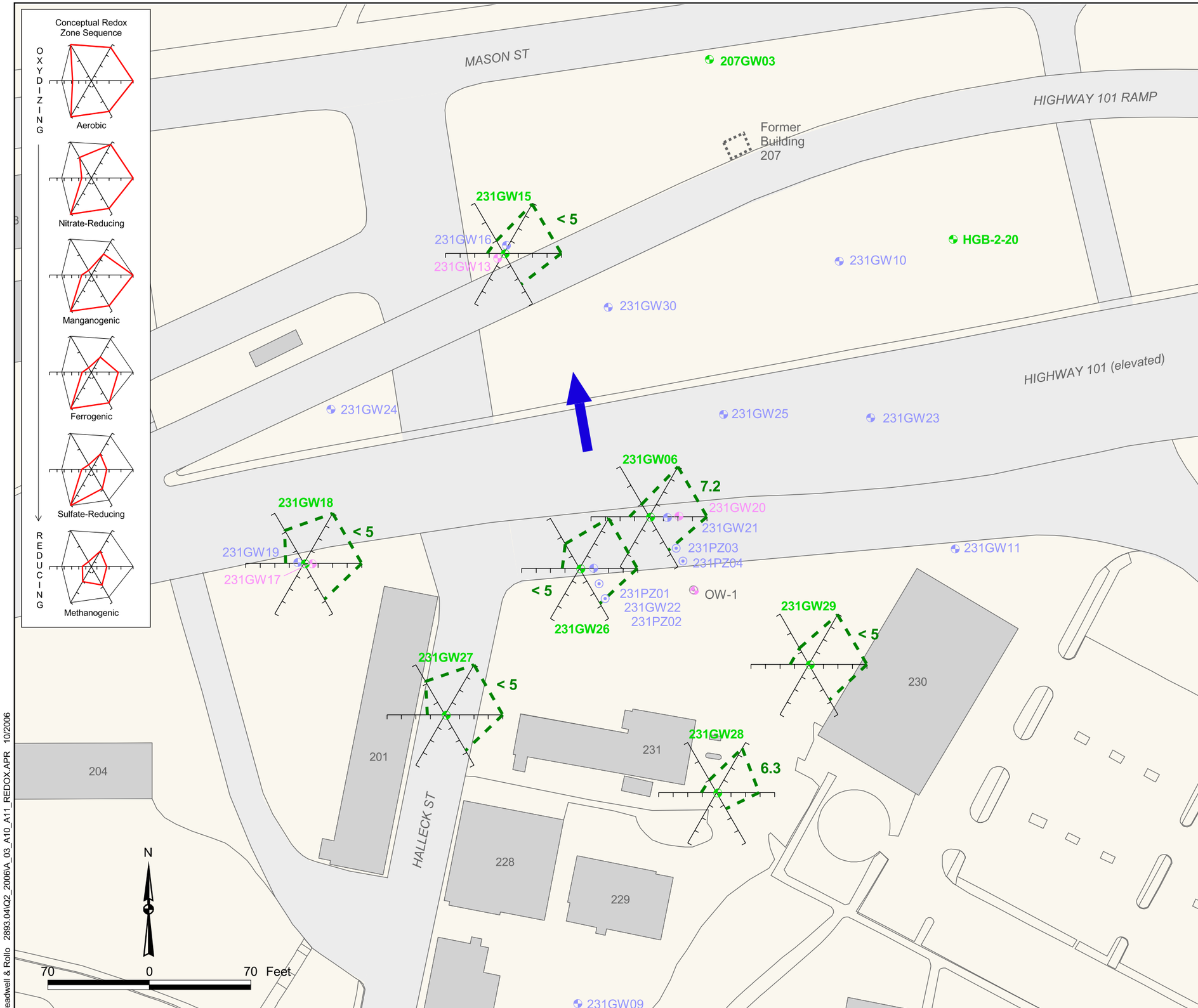
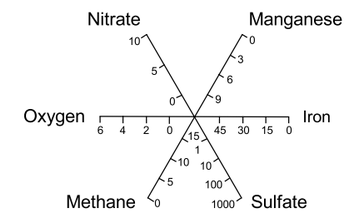
FIGURE A-10-9

Treadwell & Rollo 2893.04\Q2_2006\A_03_A10_A11_REDOX.APR 10/2006



LEGEND

231GW15	Intermediate Groundwater Monitoring Well
231GW21	Shallow Groundwater Monitoring Well
231PZ03	Shallow Piezometer
231GW17	Deep Groundwater Monitoring Well
OW-1	Temporary piezometer, location approximate
	Approximate Direction of Groundwater Flow
201	Building and Number



Note: All axes are in normal scale, groundwater concentrations are in milligrams per liter (mg/L).

Q1-2006 Groundwater Concentrations

7.2 Q1-2006 Dissolved Arsenic Concentration (µg/L) (EPA Method SW6010/SW6020)

Notes:
Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

BUILDING 231/207 AREA
REDOX DIAGRAMS FOR
INTERMEDIATE GROUNDWATER

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Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315

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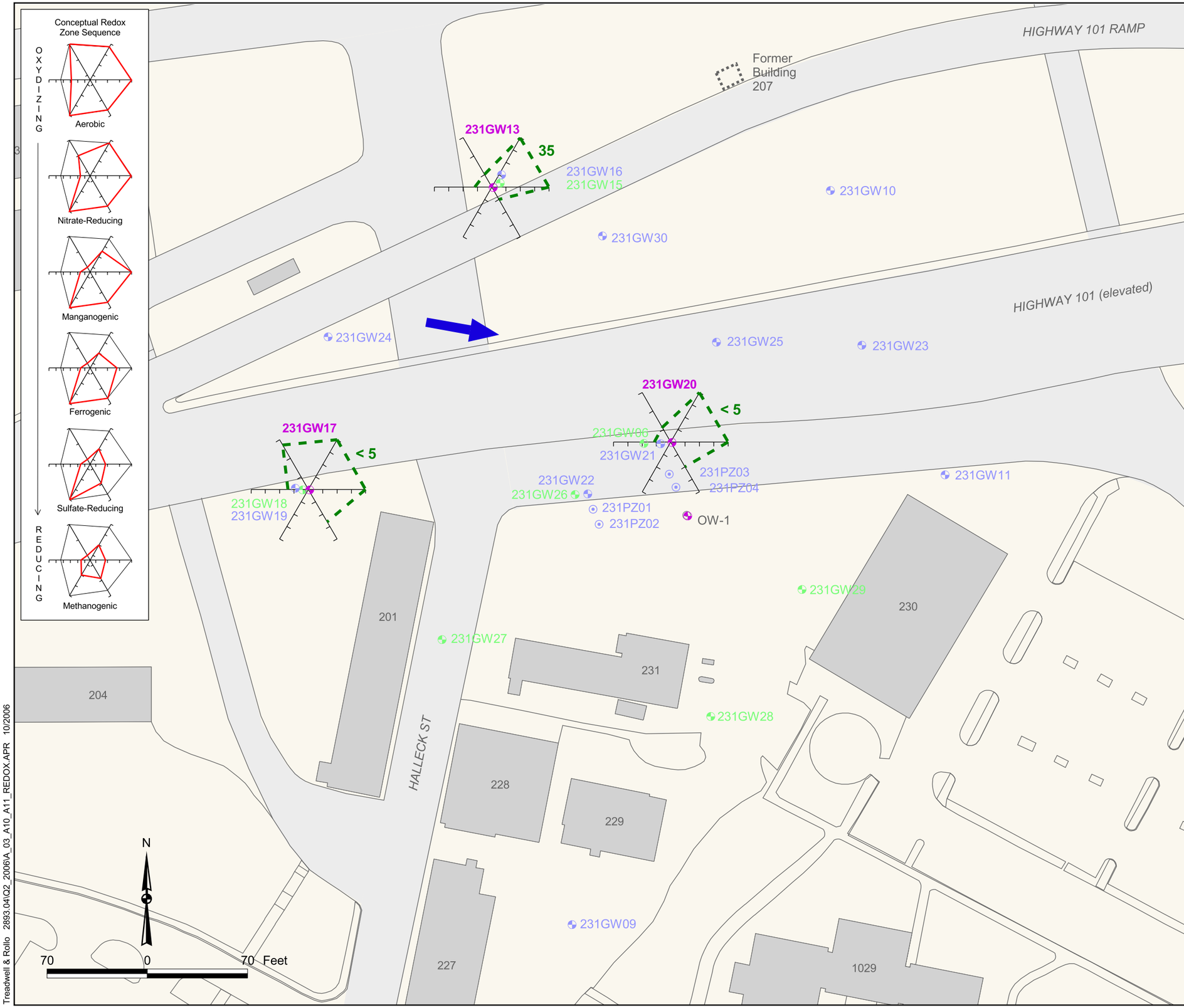
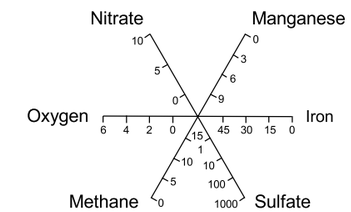
FIGURE A-10-10

Treadwell & Rollo 2893.04\Q2_2006\A_03_A10_A11_REDOX.APR 10/2006



LEGEND

- 231GW17 — Deep Groundwater Monitoring Well
- 231GW15 — Intermediate Groundwater Monitoring Well
- 231GW21 — Shallow Groundwater Monitoring Well
- 231PZ03 — Shallow Piezometer
- OW-1 — Temporary piezometer, location approximate
- Approximate Direction of Groundwater Flow
- 201 — Building and Number



Note: All axes are in normal scale, groundwater concentrations are in milligrams per liter (mg/L).

- Q1-2006 Groundwater Concentrations
- 35 — Q1-2006 Dissolved Arsenic Concentration (µg/L) (EPA Method SW6010/SW6020)

Notes:
Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

BUILDING 231/207 AREA REDOX DIAGRAMS FOR DEEP GROUNDWATER

Treadwell&Rollo

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Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315
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FIGURE A-10-11

Treadwell & Rollo 2893.04\Q2_2006\A_03_A10_A11_REDOX.APR 10/2006

First Quarter 2006

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 231 | Well No.: 207GW03

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeJong | Sampled by: John DeJong | Date: 5/16/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 23.91

Depth to Water (WL, ft. below TOC): 3.57

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 2"
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) ~~16~~ mid 16'
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

20.34 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 55 gal (CALCULATED PURGE VOLUME)

Total Purge Time:

Recharge Rate:

Purge Rate: ~4 gpm

ACTUAL PURGE VOLUME: gals

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Orion, YSI, Myron, HACH

Time	Liters or Gallons	pH	Temp (°C) °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1333	18.5	7.87	16.0	—	1267	—	2	odor
1330	37	7.79	16.1	mid —	1165	—	2	
1343	55	7.80	16.1	~~post: 0.25~~ post: 0.16	1141	post: -181.2	2	

Comments:

Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/16/06 1350

Purging Equipment: Pump - Type ~~PCT~~ mid 2" | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
207GW03	6 HCl	CT		
	2 H2SO4			
	1 NaOH+ZnAc			
	1 WP LAmb			
	1 HNO3			
	1 L poly			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 231 | Well No.: 231GW06

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/15/08

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 22.97

Depth to Water (WL, ft. below TOC): 4.33

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22
11	4	1.937

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type: 3" Pump
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft): 6'
[X] Near Bottom Depth (ft): 8'
[ ] Other

PURGE VOLUME CALCULATION

18.64 (Water Column Length) x 1.937 (Water Volume/ft) x 3 (No. Vols) = 108.32 gals CALCULATED PURGE VOLUME

Total Purge Time: 22 min

Recharge Rate:

Purge Rate: ~5 gal/min

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type:

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
925 / 36.11	6.68	16.7	—	681	—	2	
932 / 72.21	6.69	17.9	—	676	—	1	
939 / 108.32	6.70	18.0	Post 0.69	675	Post 236	1	
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/15/08 / 945

Purging Equipment: Pump - Type: Bailer - Type: Disposable Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW06	1 HNO3 Amber / 1 [illegible] Poly	CFT	2046	
	1 HNO3 Poly / 1 NaOH Poly			
	2 H2SO4 VOCs			
	6 HCL VOCs			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 231 Bldg. | Well No.: 231GW09

Project Number: 2093 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: P. Cornish | Date: 3/15/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 19.93

Depth to Water (WL, ft. below TOC): 9.80

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: .5 gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type:

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND µS/mS/cm	ORP (mV)	Turbidity (NTU)	Comments
1147	/	init.	7.63	16.3	pre 1.63	220.4	–	14	clear
1150	/	1.5	6.29	16.2	–	270.5	–	9	"
1153	/	3.0	6.25	16.2	–	271.2	–	21	"
1156	/	4.5	6.22	16.2	–	280.5	–	22	"
	/				post 2.41		post 204		
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/15/06 / 1200

Purging Equipment: Pump - Type: Bailer - Type: Disposable Other:

Sample Filtered: (Yes) No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW09	1x1L Poly NP	CAT	2045	
	2x40ml VOA H_2SO_4			
	1x500ml HNO_3 Poly			
	6x40ml VOA HCl			

QUALITY CONTROL SAMPLES

Duplicate Samples: 1x500ml NaOH+ZnAc Poly, 1x1L Amber

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area 231 | Well No. 231GW10

Project Number 2893 | Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By D. Cornish | Sampled by D. Cornish | Date 3/9/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC) :

Depth to Water (WL, ft. below TOC) :

Depth to free phase (FP, ft. below TOC) :

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type

[ ] Normal [X] Pump \ Type Peristaltic

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[X] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate 200 ml/min | 2400 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI 556 Flowcell

Time	/ Liters or Gallons	pH	Temp (C) °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments	(FS) DTW:
1324	/ -	5.29	15.96	0.57	1.005	-118.7	25	clear	2.77
1327	/ 600	5.35	15.79	0.58	0.999	-122.6	14	"	2.77
1330	/ 1200	5.39	15.75	0.43	0.999	-127.3	9	"	2.78
1333	/ 1800	5.43	15.87	0.46	1.000	-129.6	7	"	2.80
1336	/ 2400	5.45	15.78	0.50	1.000	-130.7	6	"	2.80
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled 3/9/06 / 1340

Purging Equipment: Pump - Type Peristaltic | Bailer - Type | Other

Sample Filtered: (Yes) No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW10	3 x 1L Poly NP	CET	2038	MS/MSD
	9 x 40ml VOAs HCl	HCl		
	6 x 500ml Poly HNO3	NaOH+ZnAcOC		
	6 x 40ml VOAs H2SO4			
	3 x 1L Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 231 Bldg
Well No.: 231GW11
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: P. Cornish
Sampled by: P. Cornish
Date: 3/15/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 22.26

Depth to Water (WL, ft. below TOC): 9.12

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow
[ ] Normal
[X] Modified (max 5 gpm)
[X] Bailer \ Type: Disposable
[ ] Pump \ Type
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate: .5 gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time	/	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND µS/cm	ORP (mV)	Turbidity (NTU)	Comments
1243	/	init	7.20	15.0	pre 0.45	812.5	–	19	clear
1246	/	1.5	7.36	15.0	–	854.5	–	12	"
1249	/	3	7.38	15.1	–	880.2	–	15	"
1252	/	4.5	7.37	15.2	–	888.4	–	14	"
	/				post 1.85		post -7.7		
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/15/06 / 1300

Purging Equipment: Pump - Type: Bailer - Type: Disposable Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW11	10x40ml ~~HNO3~~ HCl	CET	2045	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 231 | Well No.: 231GW13

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DA | Date: 3/14/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 46.49

Depth to Water (WL, ft. below TOC): 1.97

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 3" Sub
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 4'
[X] Near Bottom Depth (ft) 10'
[ ] Other

PURGE VOLUME CALCULATION

44.52 (Water Column Length) x 1.68 (Water Volume/ft) x 3 (No. Vols) = 224.38 gals CALCULATED PURGE VOLUME

Total Purge Time: 45 min.

Recharge Rate:

Purge Rate: ~ 5 gal/min.

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type:

Time / Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1522 / 74.79	7.53	16.1	—	1367	—	2	
1537 / 149.58	7.53	16.5	—	1309	—	1	
1552 / 224.38	7.52	16.4	0.37	1301	221	1	
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Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tanks

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/14/06, 1600

Purging Equipment: Pump - Type: Bailer - Type: Disposable Other:

Sample Filtered: Yes / No DA Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW13	1 NP Amber	CTI	2042	
	1 ~~SMALL~~ 1/2 Poly			
	1 HNO3 Poly			
	1 NaOH Poly			

QUALITY CONTROL SAMPLES

2 H_2SO_4 VOCs
6 HCL VOCs

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 231 | Well No.: 231 GW 15

Project Number: 2843 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/14/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 19.71

Depth to Water (WL, ft. below TOC): 3.33

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22
10.5	4	1.805

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 3" Sub.
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 5'
[X] Near Bottom Depth (ft) 10'
[ ] Other

PURGE VOLUME CALCULATION

16.38 (Water Column Length) x 1.805 (Water Volume/ft) x 3 (No. Vols) = 88.70 gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate ~5 gal./min.

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1631 / 29.57	7.52	14.8	—	777	—	1	
1637 / 59.14	7.56	15.3	—	776	—	0	
1643 / 88.70	7.59	15.4	Peak 0.29	773	Peak -128.0	0	
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Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tanks

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/14/06 / 1650

Purging Equipment: Pump - Type: Bailer - Type: Disposable Other:

Sample Filtered: Yes / No DR Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231 GW 15	1 NP Amber / [illegible] 1 NP L Poly DR	CAT	2042	
	1 HNO3 Poly / 1 NaOH Poly			
	2 H2SO4 VOAs			
	6 HCL VOAs			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 231 | Well No.: 231GW16

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: R. Cornish | Sampled by: R. Cornish | Date: 3/9/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC):

Depth to free phase (FP, ft. below TOC):

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type: Peristaltic
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate: 200 ml/min | 3.6L gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 Flowcell

Time	/ Liters or Gallons (ml)	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments	(DTW) DTW:
1450	/ -	5.85	14.04	0.89	3.633	-161.9	46	suspended mud	4.41
1453	/ 600	5.95	13.87	0.31	3.346	-178.6	36	"	4.43
1456	/ 1200	5.98	14.09	0.26	3.265	-177.9	40	"	4.43
1459	/ 1800	5.97	14.03	0.25	3.178	-176.3	37	"	4.48
1502	/ 2400	5.98	13.81	0.24	2.950	-170.5	31	"	4.60
1505	/ 3000	5.97	13.72	0.23	1.980	-163.0	27	clearing	4.80
1500	/ 3600	5.95	13.72	0.24	1.887	-15.9	29	"	4.82
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Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other on site tank

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 3/9/06 / 1512

Purging Equipment: Pump - Type: Peristaltic Bailer - Type: Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW16	6x40ml VOAs (6HCl, 2H2SO4)	CET	2030	
	2x500ml Poly HNO3/NaOH ZnAcetate			
	1x1L Poly			
	1x1L Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 231 | Well No.: 231 OW 17

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DA | Sampled by: DA | Date: 3/15/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 34.52

Depth to Water (WL, ft. below TOC): 6.79

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22
10.5	4	1.805

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 3" Sub.
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 3'
[X] Near Bottom Depth (ft) 9'
[ ] Other

PURGE VOLUME CALCULATION

33.73 (Water Column Length) x 1.805 (Water Volume/ft) x 3 (No. Vols) = 182.69 gals CALCULATED PURGE VOLUME

Total Purge Time: 36 min.

Recharge Rate:

Purge Rate: ~5 gal/min.

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type:

Time	/ Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1116	/ 60.88	6.91	17.5	—	657	—	0	
1128	/ 121.76	6.59	18.0	—	652	—	0	
1140	/ 182.64	6.58	18.1	Post 0.87	652	Post 186.3	0	
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Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/15/06 / 1145

Purging Equipment: Pump - Type: Bailer - Type: Disposable Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231 OW 17	1 NP Amber / 1 [redacted] Amber	CET	2046	
	1 HNO3 Poly / [redacted] Poly			
	2 H2SO4 VOAs			
	6 HCL VOAs			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 231 | Well No.: 231 GW 18

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/15/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 18.34

Depth to Water (WL, ft. below TOC): 1.99

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22
10.5	4	1.805

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 3" Sub
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

16.35 (Water Column Length) x 1.805 (Water Volume/ft) x 3 (No. Vols) = 88.54 gals CALCULATED PURGE VOLUME

Total Purge Time: 18 min.

Recharge Rate: Purge Rate: gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type:

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1219 / 29.51	6.85	17.7	—	838	—	0	
1225 / 59.02	6.81	18.5	—	821	—	0	
1231 / 88.53	6.81	18.6	Post 0.53	813	Post 222	0	
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Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/15/06 / 1240

Purging Equipment: Pump - Type: Bailer - Type: Disposable Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume (1L NP Poly)	Laboratory	COC #	Comments
231 GW 18	1 NP Amber / [illegible]	CHT	2044	
	1 HNO_3 Poly / [illegible] Oil Poly			
	2 H_2SO_4 VOCs			
	6 HCL VOCs			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 231 | Well No.: 231 GW 19

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/16/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 9.24

Depth to Water (WL, ft. below TOC): 3.11

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22
10.5	4	1.805

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type

[X] Normal [X] Pump \ Type 3" Sub.

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 5'

[X] Near Bottom Depth (ft) 7'

[ ] Other

PURGE VOLUME CALCULATION

6.33 (Water Column Length) x 1.805 (Water Volume/ft) x 3 (No. Vols) = 34.28 gals CALCULATED PURGE VOLUME

Total Purge Time: 6 min.

Recharge Rate:

Purge Rate ~ 5 gal/min

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type:

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1047 / 11.43	6.99	15.9	—	728	—	2	
1049 / 22.85	7.00	16.3	—	721	—	1	
1051 / 34.28	7.01	16.4	Post- 0.37	722	Post- -116.7	1	
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Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/16/06 / 1055

Purging Equipment: Pump - Type: Bailer - Type: Disposable Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW 19	1 NP Amber/1L NP Poly	CET	2048	
	1 HNO_3 Poly/ $NaOH$ Poly			
	2 H_2SO_4 Vocs			
	6 HCL Vocs			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 231 | Well No.: 231GW20

Project Number: 2843 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/15/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 40.08

Depth to Water (WL, ft. below TOC): 1.68

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22
10.5	4	1.805

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 3" Sub.
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 4'
[X] Near Bottom Depth (ft) 10'
[ ] Other

PURGE VOLUME CALCULATION

38.4 (Water Column Length) x 1.805 (Water Volume/ft) x 3 (No. Vols) = 207.[illegible] gals CALCULATED PURGE VOLUME

Total Purge Time: 42 min.

Recharge Rate:

Purge Rate: ~5 gal./min.

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type:

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1424 / 69.31	7.26	17.7	—	614	—	1	
1438 / 138.62	7.25	17.5	—	608	—	1	
1452 / 207.94	7.24	17.6	0.28	611	91.7	0	
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Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/15/06 / 1500

Purging Equipment: Pump - Type: Bailer - Type: Disposable Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW20	1 NP Amber / [illegible] Poly	CFT	3040	
	1 HNO3 Poly / NaOH Poly			
	2 H2SO4 VOAs			
	6 HCL VOAs			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BMP 207/231 | Well No.: 231GW21

Project Number: 2493 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: Sooch / Pete | Sampled by: Sooch / Pete | Date: 3/8/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 5.20

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Normal [ ] Modified (max 5 gpm)

[ ] Bailer \ Type [X] Pump \ Type peristaltic [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft) [X] Near Bottom Depth (ft) [ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate 250ml/min.

2750 ml ~~gals~~ ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI 556, MPS IONMETER

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments	DW
1337	—	6.51	18.1	0.9	0.532	-37.9	6	clear	5.20
1340	750	6.50	18.1	0.6	0.531	-49.3	4	"	5.60
1343	1500	6.56	17.9	0.9	0.530	-55.8	3	"	5.61
1346	2250	6.53	17.9	1.2	0.530	-58.6	3	"	5.82
1349	3000	6.56	17.9	0.8	0.530	-61.3	3	"	5.96
1352	3750	6.56	17.9	0.8	0.526	-62.5	3	"	6.10

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled 3/8/06 / 1358

Purging Equipment: Pump - Type peristaltic | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW21	1x1L poly np	CET	2025	Split/Dup.
	3x40ml vial HCl			
	6x40ml vial HCl			
	1x500ml poly HNO_3			
	1x500ml poly NaOH+2mAOC			

QUALITY CONTROL SAMPLES

Duplicate Samples 1x1L amber

Original Sample No.	Duplicate Sample No.
~~DUP030806A~~	DUP030806A @ 1430
231GW21	231GW21CL

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 800 207/231 | Well No.: 231GW22

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: Sooch Sung | Sampled by: Sooch Sung | Date: 3/9/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 6.40

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Normal [ ] Modified (max 5 gpm)

[ ] Bailer \ Type [X] Pump \ Type peristaltic [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft) [X] Near Bottom Depth (ft) [ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals

CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate 300 ml/min

3600 ml ~~gals~~

ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI 556, TURBIDIMETER

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1454		6.75	17.6	1.7	1.231	-96.3	12	clear/gasoline 6.40
1457	900	6.76	17.5	0.7	1.240	-97.5	8	" " 6.68
1500	1800	6.76	17.5	1.0	1.251	-96.5	7	" " 6.81
1503	2700	6.77	17.5	0.9	1.255	-97.1	4	" 6.92
1506	3600	6.77	17.6	0.8	1.259	-92.0	4	" 7.08

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled 3/9/06 / 1510

Purging Equipment: Pump - Type peristaltic | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW22	1x1L poly/ND	CAT	2030	
	6x40 ml VOA HCL			
	2x40ml VOA H_2SO_4			
	1x1L Amber			

QUALITY CONTROL SAMPLES 1x500ml poly HNO3

Duplicate Samples 1x500ml poly HNO3 + 2x40ml

Original Sample No.	Duplicate Sample No.
231GW22	D4P030906IA C 1545

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 231 Bldg.
Well No.: 231GW23
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: P. Cornish
Sampled by: P. Cornish
Date: 3/15/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 7.40

Depth to Water (WL, ft. below TOC): 2.61

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable
[ ] Normal [ ] Pump \ Type:
[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: .5 gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type:

Time	/	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1340	/	init.	7.57	12.6	pre 0.65	561.8	–	40	clear
1343	/	1.5	6.90	12.2	–	668.1	–	57	"
1346	/	3	6.83	12.3	–	827.5	–	41	"
1349	/	4.5	6.84	12.5	–	836.7	–	24	"
	/				post 0.45		post -134.7		
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	/								
	/								
	/								
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	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/15/06 / 1355

Purging Equipment: Pump - Type: Bailer - Type: Disposable Other:

Sample Filtered: (Yes) No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW23	6 HCl 40ml Voas	CET	2045	
	2 H_2SO_4 40ml Voas			
	1 x 1L NP Poly			
	1 x 500ml HNO_3 Poly			
	1 x 500ml NaOH + Zinc Poly			

QUALITY CONTROL SAMPLES

Duplicate Samples 1 x 1L Amber

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 231 | Well No.: 231 GW 24

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DA | Sampled by: DA | Date: 3/16/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 7.89

Depth to Water (WL, ft. below TOC): 3.46

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
(10)	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type: 3" S.b.
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft): 5'
[X] Near Bottom Depth (ft): 6'
[ ] Other

PURGE VOLUME CALCULATION

4.43 (Water Column Length) x 1.68 (Water Volume/ft) x 3 (No. Vols) = 22.33 gals CALCULATED PURGE VOLUME

Total Purge Time: 7 min.

Recharge Rate:

Purge Rate: ~5 gal/min.

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type:

Time / Liters or Gallons	pH	Temp (C) °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1149 / 7.44	7.32	13.0	—	637	—	11	
1151 / 14.88	7.31	13.0	—	639	—	2	
1153 / 22.33	7.30	13.1	Dosh 0.47	637	Dosh -57.5	1	
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Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/16/06 / 1220

Purging Equipment: Pump - Type: Bailer - Type: Disposable Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231 GW 24	1 NP Poly / 1L NP Poly	CFT	2048	
	1 [illegible] Poly / 1 Oil Poly			
	2 H_2SO_4 Voas			
	6 HCL Voas			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. 231 | Well No.: 231GW25

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: R. Cornish | Sampled by: R. Cornish | Date: 3/15/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 9.89

Depth to Water (WL, ft. below TOC): 3.46

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable

[ ] Normal [ ] Pump \ Type

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate: .5 gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND µS ~~mS/cm~~	ORP (mV)	Turbidity (NTU)	Comments
1436 / init.	6.90	12.2	pre. 0.41	1462	—	7	clear
1439 / 1.5	6.91	12.3	—	1540	—	9	"
1442 / 3	6.94	12.2	—	1570	—	14	"
1445 / 4.5	6.94	12.2	post 0.29	1577	post 70.3	13	"

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 3/15/06 / 1450

Purging Equipment: Pump - Type | Bailer - Type: Disposable | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW25	6x40ml HCl Vom	CET	2045	
	2x40ml H_2SO_4 Vom			
	1x500ml HNO_3 Poly			
	1x500ml NaOH+ZnAc Poly			
	1x1L Amber			
	1x1L Poly NP			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 231 | Well No.: 231 OW 26

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/16/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 23.74

Depth to Water (WL, ft. below TOC): 6.64

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 3" Sub.
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 8'
[X] Near Bottom Depth (ft) 14'
[ ] Other

PURGE VOLUME CALCULATION

17.1 (Water Column Length) x 1.68 (Water Volume/ft) x 3 (No. Vols) = 86.18 gals CALCULATED PURGE VOLUME

Total Purge Time: 18 min.

Recharge Rate:

Purge Rate: ~5 gal./min.

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type:

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1350 / 28.73	7.00	18.2	—	728	—	1	
1356 / 57.46	6.99	18.8	—	732	—	1	
1402 / 86.18	6.99	18.9	Post 0.39	731	Post 68.7	0	
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Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/16/06 / 1410

Purging Equipment: Pump - Type: Bailer - Type: Disposable Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231OW26	1 NP Amber/1L NP Poly	CFT	2048	
	1 HNO_3 Poly/$NaOH$ Poly			
	2 H_2SO_4 VOAs			
	6 HCL VOAs			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 231 | Well No.: 231GW27

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/15/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 26.55

Depth to Water (WL, ft. below TOC): 9.94

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type: 3" Sub.
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft): 12'
[X] Near Bottom Depth (ft): 16'
[ ] Other

PURGE VOLUME CALCULATION

15.61 (Water Column Length) x 1.68 (Water Volume/ft) x 3 (No. Vols) = 78.67 gals CALCULATED PURGE VOLUME

Total Purge Time: 15 min.

Recharge Rate:

Purge Rate: ~5 gal./min.

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type:

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1535 / 26.22	6.88	16.3	—	800	—	1	
1541 / 52.45	6.81	16.8	—	797	—	1	
1547 / 78.67	6.81	16.8	Post 0.45	797	Post 106.5	0	
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Comments: Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/15/06 / 1555

Purging Equipment: Pump - Type: Bailer - Type: Disposable Other:

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW27	1 oP Amb. / 1 [illegible] Poly	C&T	2046	
	1 HNO3 Poly / 1 H2O2 Poly			
	2 H2SO4 Vocs			
	6 HCL Vocs			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area Bldg. 231 — Well No. 231GW28

Project Number 2893 — Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By P. Cornish — Sampled by P. Cornish — Date 3/15/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 10.89

Depth to Water (WL, ft. below TOC): 3.30

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type Disp.

[ ] Normal [ ] Pump \ Type

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate — Purge Rate .5gpm — 4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time	/ Liters or ~~Gallons~~	pH	Temp °F	DO (mg/L)	Sp. COND ~~mS/cm~~	ORP (mV)	Turbidity (NTU)	Comments
1605	/ init.	7.69	13.8	pre	615.2	—	14	clear
1608	/ 1.5	6.93	14.0	—	608.3	—	10	"
1611	/ 3.0	6.90	14.1	—	611.1	—	13	"
1614	/ 4.5	6.90	14.2	-	611.2	—	12	"
	/			post 0.13		post 0.37		
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Comments — Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD — Date/Time Sampled 3/15/06 / 1620

Purging Equipment — Pump - Type — Bailer - Type Disp. — Other

Sample Filtered: Yes / No — Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW28	6 HCl VOA	CET	2045	
	2 H_2SO_4 VOA			
	1 x 500ml HNO_3 poly			
	1 x 500ml NaOH+ZnAc poly			
	1x1L NP Poly			
	1x1L Amber NP			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 231 | Well No.: 231 GW 29

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: DR | Sampled by: DR | Date: 3/16/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 17.50

Depth to Water (WL, ft. below TOC): 2.22

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
(10)	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type: 3" Sub.
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft): 4'
[X] Near Bottom Depth (ft): 8'
[ ] Other

PURGE VOLUME CALCULATION

15.28 (Water Column Length) x 1.68 (Water Volume/ft) x 3 (No. Vols) = 77.01 gals CALCULATED PURGE VOLUME

Total Purge Time: 18 1/2 min.

Recharge Rate:

Purge Rate: ~5 gal./min.

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type:

Time	Liters or Gallons	pH	Temp (°C) °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
951	25.67	7.28	15.5	—	801	—	2	
956	51.34	7.34	16.7	—	797	—	1	
1001	77.01	7.35	16.7	Post 0.58	797	Post -49	1	

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/16/06 / 1010

Purging Equipment: Pump - Type: Bailer - Type: Disposable Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231 GW 29	1 NP Amber / 1 L NP Poly	CFT	20498	
	1 HNO_3 Poly / H_2SO_4 Poly			
	2 H_2SO_4 Vons			
	6 HCL Vons			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg 207/231 | Well No.: 231GW30

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: Sooch Sung | Sampled by: Sooch Sung | Date: 3/9/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 4.99

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Normal [ ] Modified (max 5 gpm)

[ ] Bailer \ Type [X] Pump \ Type peristaltic [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft) [X] Near Bottom Depth (ft) [ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate 250 ml/min | gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI 556, TURBIDIMETER

Time	/ Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments	DTW
1351	/ —	7.04	15.2	0.7	0.844	-50.0	11	clear	4.99
1354	/ 750	7.07	15.1	0.6	0.835	-53.2	8	"	5.28
1357	/ 1500	7.09	15.1	0.4	0.826	-58.4	6	"	5.43
1400	/ 2250	7.09	15.1	0.4	0.815	-59.7	6	"	5.58
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Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 3/9/06 / 1405

Purging Equipment: Pump - Type: peristaltic | Bailer - Type: | Other:

Sample Filtered: Yes / No | Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW30	1 x 1L poly NP	CET	2030	
	6 x 40 ml VOA HCL			
	2 x 40 ml VOA H_2SO_4			
	1 x 1L AMBER			

QUALITY CONTROL SAMPLES 1 x 500 ml poly HNO_3

Duplicate Samples 1 x 500 ml poly NaOH + ZnAcOC

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 231 | Well No.: 231 PZ01

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeJong | Sampled by: John DeJong | Date: 3/14/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [X] Other 1"

Well Total Depth (TD, ft. below TOC): 9.91

Depth to Water (WL, ft. below TOC): 5.77

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type Peri
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) 7.51
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate ~150ml/min | gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI, HACH

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	DTW	Comments
1244	Begun		purge						
1247	450ml/m	6.73	17.22	0.56	1251	-92.9	48	3.41	Clear
1250	well		Dewatered						
~~1253~~	1630	return to	sample	well.	Dewatered				
	left	until	till	next	Day				
	1050	return to	well	~~the~~	TOC,	Geochem,	Sulfide		

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other Baker tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled 3/14/06 1630

Purging Equipment: (Pump) - Type Peri | Bailer - Type | Other

Sample Filtered: (Yes) / No | Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW	1 NP poly	CET	2041	
231PZ01	6 ft			
	2 H_2SO_4			
	1 HNO_3			

QUALITY CONTROL SAMPLES

Duplicate Samples: 1 NP Amber, 1 NaOH 2 NaC

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 231 | Well No.: 231PZ02

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: P. Cornish | Date: 3/10/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [ ] Other 1"

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC):

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Normal [ ] Modified (max 5 gpm)

[ ] Bailer \ Type [ ] Pump \ Type: Peristaltic [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft) [X] Near Bottom Depth (ft) [ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate: 200 ml/min

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time	/ Liters or ml Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
918	/	9.53	15.28	1.05	1.548	-248.7	6	H_2S odor 5.34
921	/ 600	9.46	15.36	1.07	1.531	-248.5	19	" " 5.39
924	/ 1200	9.01	15.03	1.40	1.492	-226.3	23	clear " 5.36
927	/ 1800	8.81	15.19	1.08	1486	-222.1	69	" " 5.39
930	/ 2400	8.76	15.31	0.98	1472	-216.7	41	" " 5.39
933	/ 3000	8.75	15.44	0.89	1.459	-217.7	40	" " 5.40
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/10/06 / 940

Purging Equipment: Pump - Type: Peristaltic Bailer - Type: Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231PZ02	8x40ml VOAs	CRT	2031	
	2x500ml Poly			
	1x1L Poly			
	1x1L Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 231 | Well No.: 231 PZ03

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John Dedony | Sampled by: John Dedony | Date: 3/14/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [X] Other 1"

Well Total Depth (TD, ft. below TOC): 8.93

Depth to Water (WL, ft. below TOC): 5.04

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type peri
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) 8'
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate ~150ml/min

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI, HACH

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	DTW	Comments
1417	Began purging								
1420	450ml	6.95	18.37	0.41	1027	-114.3	41	5.15	clear, odor
1423	900	6.91	18.30	0.43	1026	-119.4	16	5.21	
1426	1350	6.90	18.21	0.46	1027	-120.7	15	5.17	
1429	1800	6.91	18.19	0.47	1025	-124.9	14	5.17	

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/14/06 1435

Purging Equipment: Pump - Type peri | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231PZ03	1NP poly	CH	7041	
	1NP Amber			
	6 HCl VOCs			
	1 NaOH 2NAc			
	1 HNO3			
	2 H2SO4			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 231 | Well No.: 231PZ04

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeJong | Sampled by: John DeJong | Date: 3/14/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [X] Other 1"

Well Total Depth (TD, ft. below TOC): 9.40

Depth to Water (WL, ft. below TOC): 4.41

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type Peri
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) 9.0'
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate ~150ml/min

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI / HACH

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	DTW	Comments
1329	Started		Purge						odor
1332	450ml	7.00	17.75	0.51	1041	-93.9	100	5.47	
1335	900ml	6.93	17.74	0.55	1053	-104.3	87	5.52	
1338	1350ml	6.94	17.70	0.57	1056	-106.9	61	5.56	
1341	1800ml	6.92	17.60	0.53	1058	-110.1	63	5.56	

Comments: Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/14/06 1350

Purging Equipment: Pump - Type Peri | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231PZ04	1 HNO3	CTI	2041	
	2 H2SO4			
	2 NP Amber			
	6 HCl			
	1 NP poly			
	1 ZnAc			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

Second Quarter 2006

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. 231 Area
Well No.: 231GW09
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: D. Raynal
Sampled by: D. Raynal
Date: 5/24/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 19.98

Depth to Water (WL, ft. below TOC): 12.72

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow
[ ] Normal
[X] Modified (max 5 gpm)
[X] Bailer \ Type: Disposable
[ ] Pump \ Type
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other: N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate: 1 gal. / 3 min.

3 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter / Turbidimeter

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
initial	/	—	6.3	16.4	—	777	—	33	
931	/	1 gal.	6.4	16.5	—	772	—	47	
934	/	2 gal.	6.4	16.5	—	770	—	79	
937	/	3 gal.	6.5	16.5	2.64	768	337	128	
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments

Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker Tank Onsite

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/24/06 / 945

Purging Equipment: Pump - Type: Bailer - Type: Disposable Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
231GW09	1 L Poly NP	CAT	2148D.2	
	1 500 mL HNO3 Poly		2150	
	6 HCl VOAs			
	1 L NaOH + Zinc			
	1 Amber NP			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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BUILDING 1065/1027 AREA
APPENDIX SECTION A-11
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2006
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

The Building 1065/1027 Area is located in the northeastern portion of the Presidio (Figure 1), between Gorgas Avenue to the north, General Kennedy Avenue to the east, Edie Road to the south, and a parking lot to the west. The site elevation ranges from approximately 13 to 26 feet above the PLLW datum (Montgomery Watson, 1997).

The Building 1065/1027 Area consists of Buildings 1027, 1040, 1047, 1062, 1063, the former location of Building 1065, and areas near these buildings (Figure A-11-1). Building operations formerly associated with the Building 1065/1027 Area include a power house/steam plant, laundry, warehouse, exchange service station, post exchange auto shed/maintenance/paint shop, and a garage (Montgomery Watson, 1997). A gas station shown on a 1921 map was also identified at a location just south of Building 1040 (Army, 1921).

Building 1027 formerly had a 10,000-gallon fuel oil underground storage tank (UST), which was removed in 1993. Following the tank removal, approximately 170 cubic yards of soil were removed and confirmation samples were collected. The analytical results of the confirmation samples indicated that TPHd was present in the soil at concentrations of 1.4 and 1.6 milligrams per kilogram (mg/kg). BTEX compounds were not detected in any soil confirmation samples (Montgomery Watson, 1996c).

During five sampling events conducted prior to May 1996, TPH was not detected in monitoring wells 1027MW01 and 1027MW03. Therefore, since May 1996, these wells have been utilized for elevation monitoring only. Beginning in September 1997, groundwater samples collected from the other site wells have been analyzed for TPH, BTEX, iron, manganese, general water chemistry, and natural attenuation parameters. Dissolved metals, general water chemistry, and natural attenuation parameters were eliminated from the groundwater monitoring program for the Building 1065/1027 Area in May 1999.

To evaluate changing redox conditions, pH, temperature and ORP were added to the program in the First Quarter 2006. The *Technical Memorandum, Evaluation of Arsenic and Other Metals in Groundwater at Three Corrective Action Plan Sites, Presidio of San Francisco, San Francisco, California* (MACTEC, 2006), concluded that ORP is a good indicator for evaluating changing redox conditions. The First Quarter 2006 pH, temperature and ORP data are presented in Table A-11-1 and will be used in the ongoing redox evaluations at CAP sites.

Summaries of dissolved oxygen, TPH, BTEX, MTBE, and dissolved metals results are presented in Tables A-11-1 through A-11-6.

The planned installation of a recycled water treatment and distribution system is currently on hold.

2.0 SITE DESCRIPTION AND GEOLOGY

The Building 1065/1027 Area is located in the Northeastern Groundwater Area of the Marina Groundwater Basin (Figure 1). Results of a previous site investigation conducted at the Building 1065/1027 Area indicate that units, which had previously been identified as the shallow/intermediate, intermediate, and deep groundwater zones, appear to be in hydraulic connection. These units are therefore considered to be one hydrogeologic unit called the intermediate groundwater zone. Data presented in the *Interim Data Report, Building 1065 Area* indicate that there does not appear to be a continuous aquitard separating the shallow/intermediate sand and intermediate sand or an aquitard separating what was formerly identified as the "intermediate" and "deep" sand units (now referred to as "upper intermediate sand" and "lower intermediate sand") (MACTEC, 2003a). The shallow groundwater zone consists of saturated portions of the fill and, where present, the shallow sand. The intermediate zone consists of the intermediate/shallow sand, upper intermediate sand and lower intermediate sand (identified in previous reports as deep sand). Groundwater levels within wells screened in the intermediate sand unit indicate that it is confined to semi-confined. Comparison of water levels in adjacent shallow zone and intermediate zone well pairs shows that there is an upward vertical gradient between the intermediate and shallow groundwater zones in the northern and central portions of the site (Mactec, 2003a). The shallow zone extends from approximately 6 to 12 feet bgs, and the intermediate zone extends from approximately 17 to 29 feet bgs. The depth of the deep zone was not defined during the Site Investigation (SI) conducted in 1997 (IT, 1997b). Groundwater has been reported to follow the general northward topographic trend towards the San Francisco Bay (Montgomery Watson, 1997).

Subsurface materials beneath the Building 1065/1027 Area consist of artificial fill, clayey silty sands, clayey silt, and sand. Building 1027 is underlain by silty sand to an approximate depth of 15 feet bgs. A brown, medium dense clayey sand is located beneath the silty sand (Montgomery Watson, 1996c). Fill material within the Building 1065/1027 Area ranges from 1 to 5.5 feet in thickness. The fill is underlain by native clayey silty sand with an average thickness of 3 feet. The clayey silty sand is underlain by a 9-foot-thick clayey silt (Bay Mud) deposit. Beneath the Bay Mud, a sand layer is present to a depth of approximately 25 feet bgs in some areas and is underlain by a second layer of Bay Mud to depths of approximately 29 feet bgs. Dense sands underlie the second Bay Mud horizon (IT, 1997b, Mactec, 2003a).

3.0 BUILDING 1065/1027 SITE INVESTIGATION

From August to November 2002, Mactec Engineering and Consulting Incorporated (MACTEC) conducted an additional SI at the Building 1065/1027 Area. The SI was conducted to fill data gaps that were identified from previously collected data and included soil and groundwater sampling and abandonment of six existing installation of seven new piezometers.

Free product was not encountered in any of the borings or during any of the piezometer installations. Results from the SI were presented to the RWQCB and DTSC in the *Interim Data Report, Building 1065 Area, Presidio of San Francisco, California* (MACTEC, 2003a). The RWQCB and DTSC granted concurrence to the Interim Data Report on 7 May 2003.

An Interim Action Plan was prepared (MACTEC, 2003b) and was implemented by the Trust in November 2003. The interim action consisted of excavating and disposing of approximately 5,582 tons of petroleum impacted soil to Class II and Class III landfills for disposal. The extent of the excavation was approximately 100 by 130 feet and ranged in depth from 8 to 12 feet (Figure A-11-1).

4.0 DRAFT CORRECTIVE ACTION PLAN BUILDING 1065 AREA

The *Draft Corrective Action Plan, Building 1065 Area* (CAP) (Mactec, 2005b) was submitted to all stakeholders for public review in 29 July 2005. The following chemicals were identified by the CAP as chemicals of concern in soil: TPHg, TPHd, TPHfo, VOCs (benzene, ethylbenzene, 2-hexanone, and toluene), PAHs (benzo(a)pyrene, and metals (arsenic, cadmium, lead and zinc). Additionally, the following chemicals were identified by the CAP as chemicals of concern in groundwater: TPHg, benzene, arsenic, and antimony.

Based on cleanup level exceedances, three Soil Remedial Units (RUs) (Soil RUs A, B, and C) and one Groundwater RU (Groundwater RU A) were identified in the CAP. The Soil RUs are described in the CAP. The Groundwater RU in the same location as Soil RU A and is believed to be associated with Soil RU A, therefore, these two RUs have been combined. The Groundwater RU A is comprised of shallow groundwater between 6 and 12 feet bgs beneath and adjacent to the south wall of Building 1063. The groundwater in this area contains TPHg and benzene above their applicable CAP cleanup levels (MACTEC, 2005b).

The CAP recommends *Excavation and Offsite Disposal of Soil, Application of In Situ Oxygen Release Product As Necessary, Groundwater Monitoring* as the preferred corrective action alternative for Soil and Groundwater RU A. This corrective action will be implemented in May 2006, as detailed in the CAP (MACTEC, 2005b).

Groundwater sampling at the Building 1065 Area will be conducted in accordance with the CAP following CAP approval and implementation. Cleanup levels proposed in the Draft CAP are presented in Tables A-11-3 and A-11-4.

5.0 GROUNDWATER MONITORING

The Building 1065/1027 Area has 23 associated monitoring wells and piezometers. Twenty-two monitoring wells and piezometers were sampled during the First Quarter 2006, in accordance with Table 1A. Piezometer 1065PZ6A was not sampled as scheduled due to an obstruction covering the location.. Five monitoring wells (1065MW9A, 1065MW9B, 1065MW101, 1065MW102, and 1047MW101) and five piezometers (1065PZ1A, 1065PZ1B, 1065PZ2A, 1065PZ4A, and 1065PZ5AR) were sampled during the Second Quarter 2006, in accordance with Table 1B.

Monitoring wells and piezometers associated with the Building 1065/1027 Area are screened within the shallow unconfined, and the intermediate semi-confined zones. During the First and Second Quarters 2006, groundwater elevations were measured in 22 site piezometers and monitoring wells (Tables 1A and 1B).

5.1 Groundwater-Level Measurements and Interpretation

Groundwater elevation measurements were collected on 6 March and 22 May 2006 at 22 Building 1065/1027 Area piezometers and wells that were scheduled to be measured as part of this program (Tables 1A and 1B). A list of site wells and piezometers monitored and corresponding groundwater levels are provided in Table A-11-7. Water level meters were calibrated on 6 March and 22 May 2006. The calibration logs can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C.

5.1.1 Shallow Groundwater

During the First Quarter 2006, shallow groundwater elevations ranged from 7.51 to 16.10 feet above PLLW in monitoring wells 1065MW101 and 1047MW101, respectively (Figure A-11-2). During the Second Quarter 2006, shallow groundwater elevations ranged from 7.37 to 15.20 feet above PLLW in monitoring wells 1065MW101 and 1047MW101, respectively (Figure A-11-3). Groundwater elevation measurements at the Building 1065/1027 Area shallow aquifer monitoring wells were evaluated with measurements collected at Building 231/207 and Fill Site 6 shallow monitoring wells to better understand groundwater flow direction and gradients in this area. Groundwater elevation data for these adjacent sites can be found in Tables A-10-7 and A-3-6.

The shallow aquifer groundwater flow direction in the Building 1065/1027 Area was generally north to northeast towards the San Francisco Bay during both the First and Second Quarters 2006, which follows the general topographic trend (Figures A-11-2 and A-11-3). The shallow groundwater gradient in this area was calculated to be approximately 0.024 feet per foot during the First Quarter 2006, and approximately 0.020 feet per foot during the Second Quarter 2006. The overall groundwater gradients and flow directions observed during the First and Second Quarters 2006 are consistent with gradients and flow directions observed prior to the

construction dewatering activities that occurred during the adjacent letterman hospital redevelopment.

5.1.2 Intermediate Groundwater

During the First Quarter 2006, intermediate groundwater elevations ranged from 12.34 to 15.34 feet above PLLW in piezometers 1065PZ4B and 1065PZ5B, respectively (Figure A-11-4). During the Second Quarter 2006, intermediate groundwater elevations ranged from 11.82 to 16.09 feet above PLLW in piezometers 1065PZ4B and 1065PZ6B, respectively (Figure A-11-5).

Groundwater elevation measurements from the Building 1065/1027 Area intermediate monitoring wells were evaluated with measurements collected from Building 231/207 intermediate aquifer monitoring wells to better understand groundwater flow direction and gradients in this area. Monitoring well data for the Building 231/207 Area site can be found in Table A-10-3. During the First and Second Quarters 2006, the intermediate aquifer groundwater flow direction in the Building 231/207 and Building 1065/1027 Area was generally to the north on the eastern portion of the site and northwest on the western portion of the site. Groundwater beneath the Building 1065/1027 Area flows in a northerly direction towards the San Francisco Bay following the general topographic trend (Figures A-11-4 and A-11-5). During both the First and Second Quarters 2006, the average intermediate groundwater gradient in the vicinity of Building 1065/1027 Area was estimated to be approximately 0.007 feet per foot. Groundwater gradients and flow directions remain consistent with previous findings at the site.

5.2 Groundwater Purging and Sampling

During the First Quarter 2006, all Building 1065/1027 Area piezometers and monitoring wells proposed for sampling were purged and sampled between 7 March and 16 March 2006. During the Second Quarter 2006, all Building 1065/1027 Area piezometers and monitoring wells proposed for sampling were purged and sampled between 24 May and 25 May 2006. All piezometers and wells were purged and sampled using the methods shown in Tables 1A and 1B and in accordance with procedures described in the FSP (Treadwell & Rollo, 2001a).

All samples were collected using methods shown in Tables 1A and 1B and in accordance with procedures described in the FSP (Treadwell & Rollo, 2001a).

Purge equipment, purging volumes, purge water general water chemistry parameters, and sampling equipment for each piezometer and monitoring well are described in the purge records at the conclusion of this section. Purge water was stored for future disposal in a 2,800-gallon aboveground polyethylene storage tank, located at the Central Magazine.

5.3 Groundwater Analytical Program

All groundwater samples collected were submitted to the project laboratory for the analyses shown in Tables 1A and 1B of the main text. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are shown in Table 5. Sample containers used for each well are described in the purge records located at the conclusion of this Appendix A subsection.

QA/QC samples were collected as part of this program. Section 6.2 of the main text discusses the QA/QC sampling and analysis performed for the First and Second Quarters 2006.

6.0 GROUNDWATER ANALYTICAL RESULTS

Groundwater samples collected during the First and Second Quarters 2006 at the Building 1065 Area were analyzed for all or a combination of general chemistry parameters, TOC, dissolved metals, TDS, dissolved oxygen, VOCs, BTEX, MTBE, total sulfides, TPHg, TPHd, TPHfo, and/or TPHss. Specific lists of analyses for monitoring wells and piezometers are detailed in Tables 1A and 1B. Additionally, redox (pH, ORP and temperature) parameters were measured within wells sampled during the First and Second Quarters 2006.

The TPHfo standard currently being used is a TPH as motor oil standard, as defined by the Presidio QAPP, with a carbon range of C_{24}-C_{36}. Section 5.4.3.1 in the main report discusses the data compatibility issues associated with TPH analyses.

6.1 Dissolved Oxygen

Dissolved oxygen measurements are presented in Table A-11-1. The dissolved oxygen measurements ranged from 0.05 to 4.87 mg/L at 1065PZ1B and 1065MW102 during the First Quarter 2006 and from 0.14 to 4.21 mg/L at 1065PZ2A and 1065PZ5AR during the Second Quarter 2006.

The dissolved oxygen concentrations within the remaining Building 1065/1027 Area monitoring wells and piezometers were generally within the range of historical concentrations. During the First Quarter 2006, dissolved oxygen was measured at new low concentrations of 0.05 and 0.12 mg/L within piezometers 1065PZ51B and 1065PZ2B, respectively, and at new high concentrations of 0.82 and 4.87 mg/L within monitoring wells 1065MW101 and 1065MW102, respectively. During the Second Quarter 2006, dissolved oxygen was measured at a new low concentration of 0.36 mg/L within monitoring well 1065MW9B and at new high concentration of 4.21 mg/L within piezometer 1065PZ5AR. The new high concentrations within monitoring well 1065MW102 and piezometer 1065PZ5AR were significantly higher than previous concentrations at these locations. Dissolved oxygen concentrations will continue to be monitored during future sampling events to determine apparent trends. The remaining new high

and low concentrations were only slightly higher or lower than the previously measured concentrations and can be attributed to natural fluctuations.

6.2 General Chemistry Results

The following table summarizes new high and low general chemistry analytical results for the First and Second Quarters 2006 within the Building 1065 Area when compared to historical data, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date sampling commenced, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
General Chemistry							
1065PZ1B	Alkalinity, Total	15 / 15	310	406	230	--	mg/L
	Bicarbonate	15 / 15	310	406	230	--	mg/L
	Chloride	15 / 15	57.8 *	170	--	180	mg/L
	Nitrate	9 / 15	< 0.01	0.26	--	0.42	mg/L
	Sulfate	15 / 15	55	82	43	--	mg/L
	Sulfide	2 / 6	< 0.04	0.05	--	0.06	mg/L
1065PZ2A	Alkalinity, Total	14 / 14	290	385	270	--	mg/L
	Bicarbonate	15 / 15	290	385	270	--	mg/L
1065PZ2B	Alkalinity, Total	2 / 2	180	180	--	200	mg/L
	Bicarbonate	9 / 9	150	180	--	200	mg/L
	N as Nitrite	1 / 2	0.06	0.06	< 0.05	--	mg/L
1065PZ3A	Alkalinity, Total	4 / 4	420	435	280	--	mg/L
	Nitrate	10 / 10	1	3.2	0.17 *	--	mg/L
1065PZ3B	Alkalinity, Total	2 / 2	270	270	250	--	mg/L
1065PZ4A	Alkalinity, Total	6 / 6	500	570 *	--	640	mg/L
	Bicarbonate	13 / 13	364	570	--	640	mg/L
	Fluoride	4 / 6	< 2.5	0.13	< 0.1	0.16	mg/L
1065PZ4B	Alkalinity, Total	2 / 2	270	270	--	280	mg/L
	Bicarbonate	9 / 9	210	270	--	280	mg/L
	Nitrate	9 / 9	4.2	5.1	4	--	mg/L
1065PZ5AR	Fluoride	7 / 7	0.23	0.27	0.2	--	mg/L
1065PZ5B	Alkalinity, Total	3 / 3	140	160	--	230	mg/L
	Bicarbonate	9 / 9	140	174	--	230	mg/L
	Sulfate	9 / 9	33	75	--	80	mg/L
1065PZ6B	Sulfate	9 / 9	57	94	--	97	mg/L
1065PZ7A	Alkalinity, Total	9 / 9	260	599	240	--	mg/L
	Bicarbonate	9 / 9	260	599	240	--	mg/L
	Fluoride	1 / 2	0.14	0.14	< 0.1	--	mg/L
	Sulfate	15 / 15	1.69	62	--	95	mg/L

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
1065PZ7B	Alkalinity, Total	9 / 9	235	288	--	440	mg/L
	Bicarbonate	9 / 9	235	288	--	440	mg/L
	Chloride	9 / 9	46.6	120	30	--	mg/L
	Fluoride	1 / 2	< 0.1	< 0.1	--	0.13	mg/L
	Nitrate	9 / 9	2.5	3.42 *	--	3.8	mg/L
	Sulfide	1 / 2	0.06 *	0.06 *	< 0.04	--	mg/L
1065MW9A	Alkalinity, Total	13 / 13	410	450	--	460	mg/L
	Bicarbonate	13 / 13	410	450	--	460	mg/L
	Sulfide	2 / 11	< 0.04	0.05 *	--	0.07 *	mg/L
	Sulfide	2 / 11	< 0.04 *	0.05 *	--	0.07 *	mg/L
1065MW9B	Sulfate	6 / 6	64	71	--	75	mg/L
1065MW10A	Alkalinity, Total	2 / 2	220	220	--	260	mg/L
	Bicarbonate	2 / 2	220	220	--	260	mg/L
	Chloride	2 / 2	58	58	55	--	mg/L
	Fluoride	1 / 2	0.11	0.11	< 0.1	--	mg/L
	Sulfate	2 / 2	46	46	45	--	mg/L
1065MW10B	Alkalinity, Total	2 / 2	240	240	230	--	mg/L
	Bicarbonate	2 / 2	240	240	230	--	mg/L
	Chloride	2 / 2	55	55	51	--	mg/L
	Nitrate	2 / 2	4.9	4.9	4.5	--	mg/L
	Sulfate	2 / 2	67	67	65	--	mg/L
1065MW11A	Alkalinity, Total	2 / 2	240	240	120	--	mg/L
	Bicarbonate	2 / 2	240	240	120	--	mg/L
	Chloride	2 / 2	58	58	20	--	mg/L
	Fluoride	2 / 2	0.12	0.12	--	0.13	mg/L
	Nitrate	2 / 2	2.9	2.9	2.8	--	mg/L
	Sulfate	2 / 2	84	84	34	--	mg/L
1065MW11B	Alkalinity, Total	2 / 2	250	250	190	--	mg/L
	Bicarbonate	2 / 2	250	250	190	--	mg/L
	Chloride	2 / 2	72	72	--	77	mg/L
	Nitrate	2 / 2	3.6	3.6	--	3.8	mg/L
	Sulfate	2 / 2	82	82	78	--	mg/L
1047MW101	Alkalinity, Total	3 / 3	95	95	29	--	mg/L
	Bicarbonate	3 / 3	95	95	29	--	mg/L
	Chloride	3 / 3	8.9	8.9	2.9	--	mg/L
	Fluoride	1 / 3	0.12	0.12	< 0.1	--	mg/L
	Nitrate	3 / 3	0.13	0.13	0.12	--	mg/L
	Sulfate	3 / 3	5.1	5.1	2	--	mg/L
1065MW101	Alkalinity, Total	8 / 8	670	780	600	--	mg/L
	Bicarbonate	8 / 8	670	780	600	--	mg/L
	Chloride	8 / 8	46	55	43	--	mg/L
	Fluoride	8 / 8	0.26	0.35	0.25	--	mg/L

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
1065MW102	Chloride	5 / 5	15	46	--	66	mg/L
	Fluoride	5 / 5	0.15	0.46	--	0.54	mg/L
	Nitrate	4 / 5	0.07	0.32	< 0.05	--	mg/L
	Sulfate	5 / 5	24	33	11	--	mg/L

Qualified data in the table above is indicated with an asterisk (*).

Significant new high and low general chemistry results are discussed below.

Chloride was detected at concentrations significantly lower than previously detected within the primary and duplicate samples from monitoring well 1047MW101 during the First Quarter 2006.

Nitrate as nitrogen was detected within 1065PZ3A during the First Quarter 2006 at a concentration of 0.17 mg/L, which is significantly lower than previously reported within this well.

Fluoride was detected during the First and/or Second Quarters 2006 in samples collected from 1065PZ1A, 1065PZ2A, 1065PZ3A, 1065PZ4A, 1065PZ5AR, 1065PZ7B, 1065MW9A, 1065MW11A, 1065MW101, 1065MW102 at concentrations ranging from 0.11 to 0.54 mg/L. Nitrite as nitrogen was not detected within any Building 1065 Area monitoring wells or piezometers groundwater samples analyzed during the First and Second Quarter 2006. Sulfide was detected during the First and/or Second Quarters 2006 in samples collected from 1065PZ1B, 1065PZ7B, 1065MW9A, and 1065MW102 at concentrations ranging from 0.04 to 0.17 mg/L. Sulfide was detected at a concentration of 0.17 mg/L in the QC duplicate sample collected from 1065MW9A during the Second Quarter 2006. Sulfide was not detected within either the primary or the duplicate samples collected from this well during the same quarter. The RPD between the primary, duplicate and the QC duplicate samples exceeds the QAPP-specified 50% criteria, as described in the Second Quarter 2006 DataVal report presented in Appendix D.

Fluoride, nitrite and sulfide analysis at the Building 1065 Area began in 2005. Apparent trends in fluoride, nitrite and sulfide will be evaluated when a sufficient amount of data has been collected. Many of the new highs and lows for these constituents are related to the small number of sampling events.

The remaining new high and low concentrations from the First and Second Quarters 2006 can be attributed to natural fluctuations and are not considered significant. An evaluation of the redox state of site groundwater and relative general chemistry results can be found in Section 8.0.

6.3 Dissolved Gas and TOC Results

TOC was detected in all Building 1065 Area monitoring wells and piezometers for which it was analyzed during the First Quarter 2006 (Table A-11-5). During the First Quarter 2006, TOC

concentrations ranged from 2.1 to 43.5 mg/L in 1065MW9A and 1065PZ5AR, respectively. TOC was not measured during the Second Quarter 2006.

Dissolved gases (ethane, ethene, and methane) were removed from the program for evaluation of redox conditions, in accordance with recommendations from the *Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites* (MACTEC, pending).

An evaluation of the redox state of site groundwater and TOC results can be found in Section 8.0.

6.4 Dissolved Metals Results

All Building 1065 Area groundwater samples collected were analyzed for the 15 dissolved metals list defined in Tables 1A and 1B during the First and Second Quarters 2006, except monitoring well 1047MW101, which was not analyzed for dissolved metals during the Second Quarter 2006. Dissolved metals results are presented in Table A-11-4 and are discussed below.

The tables below summarize new high and low dissolved metal analytical results for the First and Second Quarters 2006 within Building 1065 Area monitoring wells and piezometers when compared to historical data, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date sampling commenced, and the number of duplicate analyses performed. Only the new high or the new low concentrations are shown.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Metals, Dissolved							
1065PZ1A	Copper	4 / 11	< 1	2.1	--	2.6	µg/L
	Magnesium	6 / 6	40,000	49,000	--	51,000	µg/L
	Sodium	6 / 6	110,000	190,000	--	220,000	µg/L
	Zinc	1 / 11	< 20	< 20	--	40	µg/L
1065PZ1B	Manganese	15 / 15	62.6	87	--	91	µg/L
	Total Dissolved Solids	20 / 20	568 *	780	500	800	mg/L
1065PZ2A	Iron	15 / 15	3,300	17,000	--	19,000	µg/L
	Manganese	14 / 14	560 *	1,450	--	1,900	µg/L
	Sodium	7 / 7	51,000	67,000	--	76,000	µg/L
1065PZ2B	Calcium	2 / 2	23,000	23,000	22,000	--	µg/L
	Chromium	3 / 3	10	11	--	13	µg/L
	Magnesium	2 / 2	31,000	31,000	--	35,000	µg/L
	Potassium	2 / 2	930	930	--	1,000	µg/L
	Sodium	2 / 2	46,000	46,000	--	47,000	µg/L
	Vanadium	1 / 1	NA	NA	18	18	µg/L

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Metals, Dissolved							
1065PZ3A	Calcium	4 / 4	63,000	66,700	35,000	--	µg/L
	Copper	4 / 6	< 2 *	2.1	--	2.6	µg/L
	Magnesium	4 / 4	70,000	79,200	42,000	--	µg/L
	Sodium	4 / 4	52,000	60,700	24,000	--	µg/L
	Total Dissolved Solids	11 / 11	325	704	310	--	mg/L
1065PZ3B	Calcium	2 / 2	35,000	35,000	34,000	--	µg/L
	Chromium	3 / 3	29	33	--	34	µg/L
	Copper	1 / 3	< 1	< 1	--	1	µg/L
	Iron	1 / 9	< 100	< 100	--	240	µg/L
	Magnesium	2 / 2	47,000	47,000	--	51,000	µg/L
	Sodium	2 / 2	63,000	63,000	--	67,000	µg/L
	Total Dissolved Solids	10 / 10	480	612	--	1,930	mg/L
	Vanadium	1 / 1	NA	NA	15	15	µg/L
1065PZ4A	Copper	1 / 8	< 1	< 10	--	1.7	µg/L
	Iron	13 / 13	12,800	28,000	--	29,000	µg/L
	Magnesium	6 / 6	58,000	72,000	48,000	89,000	µg/L
	Sodium	6 / 6	83,000	110,000	--	150,000	µg/L
	Zinc	1 / 8	< 20	< 20	--	26	µg/L
1065PZ4B	Calcium	2 / 2	24,000	24,000	--	25,000	µg/L
	Magnesium	2 / 2	51,000	51,000	--	57,000	µg/L
	Potassium	2 / 2	800	800	--	880	µg/L
	Sodium	2 / 2	55,000	55,000	--	59,000	µg/L
	Total Dissolved Solids	10 / 10	434 *	4,160	240	--	mg/L
	Vanadium	1 / 1	NA	NA	12	12	µg/L
1065PZ5AR	Arsenic	9 / 9	22	42	21	--	µg/L
	Calcium	5 / 5	88,000 *	90,000	69,000	--	µg/L
	Iron	5 / 5	27,000 *	32,000	19,000	--	µg/L
	Magnesium	5 / 5	87,000	89,000	77,000	--	µg/L
	Manganese	5 / 5	2,600	2,800 *	2,000	--	µg/L
	Potassium	5 / 5	6,600	6,900	5,800	--	µg/L
	Sodium	5 / 5	91,000 *	95,000	83,000	--	µg/L
	Total Dissolved Solids	8 / 8	760	930	--	950	mg/L
1065PZ5B	Calcium	2 / 2	27,000	27,000	--	31,000	µg/L
	Chromium	3 / 3	14	17	--	21	µg/L
	Copper	1 / 3	< 1	< 1	--	1	µg/L
	Iron	1 / 9	< 100	< 100	--	110	µg/L
	Magnesium	2 / 2	36,000	36,000	--	44,000	µg/L
	Potassium	2 / 2	530	530	500	--	µg/L
	Sodium	2 / 2	58,000	58,000	--	60,000	µg/L
	Vanadium	1 / 1	NA	NA	16	16	µg/L
	Zinc	1 / 3	< 20	< 20	--	23	µg/L

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Metals, Dissolved							
1065PZ6B	Calcium	2 / 2	43,000	43,000	38,000	--	µg/L
	Magnesium	2 / 2	51,000	51,000	--	54,000	µg/L
	Potassium	2 / 2	530	530	--	700 *	µg/L
	Sodium	2 / 2	59,000	59,000	--	68,000	µg/L
	Total Dissolved Solids	10 / 10	457 *	517	--	660	mg/L
	Vanadium	1 / 1	NA	NA	14	14	µg/L
1065PZ7A	Cadmium	1 / 4	< 1	< 5	--	1.1	µg/L
	Calcium	2 / 2	45,000	45,000	44,000	--	µg/L
	Chromium	1 / 4	< 10	< 10	--	19	µg/L
	Chromium	1 / 4	< 10 *	< 10 *	--	19	µg/L
	Copper	2 / 4	< 10	2.1	< 1	--	µg/L
	Magnesium	2 / 2	81,000	81,000	54,000	--	µg/L
	Potassium	1 / 2	< 500	< 500	--	850	µg/L
	Sodium	2 / 2	38,000	38,000	--	63,000	µg/L
	Vanadium	1 / 2	< 10	< 10	--	10	µg/L
1065PZ7B	Calcium	2 / 2	43,000	43,000	42,000	--	µg/L
	Chromium	2 / 3	26	31 *	< 10	--	µg/L
	Magnesium	2 / 2	60,000	60,000	--	95,000	µg/L
	Sodium	2 / 2	74,000	74,000	40,000	--	µg/L
	Total Dissolved Solids	10 / 10	434	575	--	650 *	mg/L
1065MW9A	Iron	15 / 15	3,000	6,100	--	6,200	µg/L
	Magnesium	13 / 13	75,000	96,000	--	99,000	µg/L
	Manganese	13 / 13	450	580	--	600	µg/L
	Potassium	13 / 13	14,000	17,000	12,000 *	18,000	µg/L
	Potassium	13 / 13	14,000	17,000 *	12,000 *	18,000	µg/L
	Total Dissolved Solids	18 / 18	670	820	--	890	mg/L
1065MW9B	Chromium	12 / 12	29	34	--	38	µg/L
	Iron	3 / 11	< 100	160	--	220	µg/L
	Magnesium	6 / 6	41,000	48,000	--	53,000	µg/L
	Sodium	6 / 6	47,000	54,000	--	59,000	µg/L
	Total Dissolved Solids	12 / 12	110	500	--	570	mg/L
	Vanadium	4 / 4	11	12	--	14	µg/L
1065MW10A	Calcium	2 / 2	31,000	31,000	29,000	--	µg/L
	Iron	2 / 2	16,000	16,000	13,000	--	µg/L
	Magnesium	2 / 2	36,000	36,000	35,000	--	µg/L
	Manganese	2 / 2	560	560	520	--	µg/L
	Potassium	2 / 2	2,000	2,000	1,900	--	µg/L
	Sodium	2 / 2	60,000	60,000	57,000 *	--	µg/L
	Total Dissolved Solids	3 / 3	380	430	--	520 *	mg/L
1065MW10B	Calcium	2 / 2	38,000	38,000	32,000	--	µg/L
	Chromium	3 / 3	26	36	--	37	µg/L
	Iron	1 / 2	< 100	< 100	--	190	µg/L
	Magnesium	2 / 2	48,000	48,000	47,000	--	µg/L

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Metals, Dissolved							
1065MW10B	Potassium	2 / 2	560	560	550 *	--	µg/L
	Sodium	2 / 2	60,000	60,000	57,000	--	µg/L
	Vanadium	1 / 1	NA	NA	16	16	µg/L
1065MW11A	Calcium	2 / 2	36,000	36,000	16,000	--	µg/L
	Iron	1 / 2	< 100	< 100	--	120	µg/L
	Magnesium	2 / 2	45,000	45,000	18,000	--	µg/L
	Potassium	1 / 2	750	750	< 500 *	--	µg/L
	Sodium	2 / 2	66,000	66,000	31,000	--	µg/L
	Total Dissolved Solids	4 / 4	190	500	--	860	mg/L
1065MW11B	Calcium	2 / 2	54,000	54,000	43,000	--	µg/L
	Copper	1 / 3	< 1	< 1	--	2.5	µg/L
	Iron	1 / 3	< 100	< 100	--	200	µg/L
	Magnesium	2 / 2	46,000	46,000	--	47,000	µg/L
	Potassium	2 / 2	790	790	700	--	µg/L
	Sodium	2 / 2	61,000	61,000	54,000	--	µg/L
	Total Dissolved Solids	3 / 3	510	600	--	860	mg/L
	Vanadium	1 / 1	NA	NA	18	18	µg/L
1047MW101	Calcium	3 / 3	5,700	5,700	4,300	--	µg/L
	Copper	5 / 6	< 10	1.7	--	2.5	µg/L
	Magnesium	3 / 3	5,200	5,200	4,500	--	µg/L
	Potassium	3 / 3	1,200	1,200	--	1,300	µg/L
	Sodium	2 / 3	< 500 *	< 500 *	--	3,200	µg/L
1065MW101	Iron	10 / 10	4,000	19,000	--	22,000	µg/L
	Manganese	8 / 8	59	130	51	--	µg/L
	Potassium	8 / 8	6,000	7,510	5,700	--	µg/L
	Sodium	8 / 8	240,000	300,000 *	200,000	--	µg/L
	Total Dissolved Solids	8 / 8	670	1,020	660	--	mg/L
1065MW102	Calcium	5 / 5	17,000	22,000	14,000	25,000	µg/L
	Iron	6 / 7	< 100	570	--	9,500	µg/L
	Magnesium	5 / 5	5,900	15,000	--	41,000	µg/L
	Nickel	1 / 7	< 20	< 20	--	33	µg/L
	Sodium	5 / 5	23,000	140,000	--	200,000	µg/L
	Total Dissolved Solids	5 / 5	170	470	--	560	mg/L

Qualified data in the table above is indicated with an asterisk (*).

The majority of the new high or low detections were only slightly higher or lower than previous highs and lows or are the results of the relatively few groundwater samples collected for certain metals and are not considered significant. Significant dissolved metals detections are discussed below.

- Dissolved arsenic was detected in eight of the 23 monitoring wells and piezometers sampled and analyzed for arsenic by EPA Method 6010/6020 during the First Quarter

2006. Dissolved arsenic was detected in seven of the 10 monitoring wells and piezometers sampled and analyzed for arsenic by EPA Method 6010/6020 during the Second Quarter 2006.

- Dissolved arsenic was detected at concentrations above its applicable cleanup level within 1065PZ1A, 1065PZ2A, 1065PZ5AR, and 1065MW101, during the First Quarter. Dissolved arsenic was detected at concentrations above its applicable cleanup level within 1065PZ1A, 1065PZ2A, 1065PZ5AR, 1065MW101, and 1065MW102 during the Second Quarter 2006. Dissolved arsenic was detected in one intermediate well during the First Quarter 2006 and only in shallow piezometers and wells in the Second Quarter 2006.
- Dissolved cadmium was detected at a new high concentration of 1.1 µg/L during the First Quarter 2006 within piezometer 1065PZ7A. This is the first time that cadmium has been detected since analysis for this metal began in the Third Quarter 2000 at this location.
- Dissolved calcium was detected at new low concentrations of 35,000 and 16,000 µg/L during the First Quarter 2006, within piezometer 1065PZ3A and monitoring well 1065MW11A, respectively.
- Dissolved chromium was detected at a new high concentration of 19 µg/L within piezometer 1065PZ7A during the First Quarter 2006. This is the first time that chromium has been detected since analysis for this metal began in the Third Quarter 2000 at this location. Dissolved chromium was not detected above the reporting limit for the first time within piezometer 1065PZ7B during the First Quarter 2006.
- Dissolved copper was detected within four Building 1065 Area monitoring wells and piezometers during the First and Second Quarters 2006 at concentrations ranging from 1.2 to 2.6 µg/L with a number of new high and low concentrations.
- Dissolved iron had many new high concentrations in the First and Second Quarters 2006. Iron was detected within 18 of the Building 1065/1027 Area monitoring wells and piezometers sampled during the First Quarter 2006 at concentrations ranging from 110 to 29,000 µg/L. The dissolved iron concentrations detected within shallow monitoring wells were generally higher than the concentrations observed in intermediate samples.
- Dissolved iron was detected during the Second Quarter 2006 at concentrations ranging from 120 to 23,000 µg/L.
- In primary and QC split duplicates samples, 1065PZ5AR and 1065PZ5ARCL, the RPD between the reported iron results failed the 50% RPD acceptance criteria for dissolved iron at 56%. As described in the First Quarter 2005 DataVal report presented in Appendix D.
- Dissolved lead was not detected above laboratory reporting limits within any of the Building 1065 Area piezometers or monitoring wells sampled during the First and Second Quarters 2006.

- Dissolved nickel was detected at a concentration of 33 µg/L within monitoring well 1065MW102 during the First Quarter 2006. This is significant as it is the first time that nickel has been detected since analysis for this metal began in the Third Quarter 2004.
- Dissolved zinc was detected above laboratory limits at concentrations of 23 and 25 µg/L within piezometer 1065PZ5B and in the primary sample from monitoring well 1065MW9B, respectively, during the First Quarter 2006. Dissolved zinc was detected above laboratory limits at concentrations of 40 and 26 µg/L within piezometers 1065PZ1A and 1065PZ4A, respectively, during the Second Quarter 2006. The detections within1065PZ5B, 1065PZ1A, and 1065PZ4A are significant, as zinc has not been detected at these locations during previous Quarters.

Dissolved arsenic, iron and manganese concentrations are typically found at elevated concentrations within the same sample locations because as the groundwater environment becomes more reducing arsenic, iron and manganese oxides undergo reduction and become more mobile/soluble in groundwater.

The predominate condition that can cause a release of arsenic and iron from the soil into the groundwater (cause it to become more soluble) is the presence of a reducing environment, where soluble materials tend to accept electrons from the water. A reducing environment can cause arsenic to become more soluble in two ways. The first is the reduction of Arsenic V to Arsenic III, which is less easily adsorbed to soil. The other is reduction and dissolution (dissolving) of ferric iron, which releases arsenic and iron that had been adsorbed to the soil (Suthersan and Payne, 2005).

Dissolved arsenic and iron concentrations were observed to drop during the Fourth Quarter 2004 within 1065PZ1A and 1065PZ2A, which are located downgradient of the interim removal action conducted in November 2003. The drop in concentration during the Fourth Quarter 2004 was believed to be a result of the interim remedial action excavation activities. However, a rebound in arsenic and iron concentrations within these piezometers is currently occurring. Dissolved arsenic and iron concentrations will continue to be monitored downgradient of the interim removal action and new trends will be identified as they become apparent.

6.5 VOCs, BTEX and MTBE Results

All Building 1065 Area monitoring wells and piezometers were sampled for either BTEX or VOCs during the First Quarter 2006 (Table A-11-3). Two piezometers (1065PZ1A and 1065PZ1B) and three monitoring wells (1065MW101, 1065MW102, and 1047MW101) were analyzed for VOCs during the Second Quarter 2006. Additionally, three piezometers (1065PZ2A, 1065PZ4A, and 1065PZ5AR) and two monitoring wells (1065MW9A and 1065MW9B) were analyzed for BTEX and MTBE during the Second Quarter 2006.

The tables below summarize new high and low dissolved VOC, BTEX and MTBE analytical results for the First and Second Quarters 2006 within Building 1065 Area monitoring wells and

piezometers when compared to historical data, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date of commencement of sampling, and the number of duplicate analyses performed. Only the new high or the new low concentrations are shown.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
BTEX							
1065PZ1A	Benzene	1 / 32	< 0.5	< 0.5	--	0.09 *	µg/L
1065PZ5AR	Toluene	1 / 12	< 0.5	< 0.5	--	0.54 *	µg/L
Volatile Organic Compounds							
1065PZ2A	MTBE	3 / 23	< 2	5	--	7.1	µg/L
1065PZ5AR	MTBE	1 / 12	< 2	< 2	--	3.5 *	µg/L
1065PZ7A	MTBE	1 / 14	< 2	< 2	--	16	µg/L

Qualified data in the table above is indicated with an asterisk (*).

Significant new high and low general chemistry results are discussed below.

Benzene was detected at a concentration of 0.09 µg/L during the Second Quarter 2006 within piezometer 1065PZ1A, which is significant as benzene has not been detected previously in this piezometer.

Toluene was only detected within piezometer 1065PZ5AR at a primary sample concentration of 0.54 µg/L during the First Quarter 2006, which is significant as toluene has not been detected in this piezometer before. Toluene was not detected within either the duplicate or QC duplicate samples from this location. Toluene was not detected in any Building 1065 Area in samples during the Second Quarter 2006.

MTBE was detected at a concentration of 16 µg/L within the piezometer 1065PZ7A during the First Quarter 2006. The detected concentration of MTBE within 1065PZ7A exceeds the California Maximum Contaminant Level (MCL) of 13 µg/L. MTBE was also detected at concentrations of 7.1 and 3.5 µg/L during the Second Quarter 2006 within piezometers 1065PZ2A and 1065PZ5AR, respectively. The MTBE detections within 1065PZ7A and 1065PZ5AR are significant as MTBE has not been detected in these piezometers before.

No VOCs, BTEX or MTBE compounds were detected within any other monitoring wells or piezometers sampled for these analytes during either the First or Second Quarters 2006. The VOC and BTEX detections, with the exception of MTBE within 1065PZ7A, did not exceed cleanup levels (Table A-11-3).

6.6 TPH Results

All groundwater samples collected from the Building 1065 Area were analyzed for TPHg, TPHd, and TPHfo during the First and Second Quarters 2006, except for the samples from monitoring well 1047MW101, which were analyzed for TPHg and TPH as stoddard solvent (TPHss) only. TPH results and applicable CAP cleanup levels are summarized in Table A-11-3.

In accordance with new RWQCB Order No. R2-2003-0080 for the Presidio, the First and Second Quarters 2004 TPHg shallow groundwater analytical results are presented in Figures A-11-2 and A-11-3. TPHg isoconcentration contours for the First and Second Quarters 2006 have not been added to Figures A-11-2 and A-11-3 because an insufficient amount of TPHg concentrations were detected.

TPHg was detected in 1065PZ1A at concentrations of 86 and 160 µg/L during the First and Second Quarters 2006, respectively. The TPHg concentrations detected within 1065PZ1A during the First and Second Quarters 2006 are within the historical range of TPHg concentrations within this piezometer and are below the applicable cleanup level. The TPHg concentrations detected within 1065PZ1A during the First and Second Quarters 2006 are within the historical range of TPHg concentrations within this piezometer and are below the applicable cleanup level. TPHg was not detected within piezometer 1065PZ1A during the Fourth Quarter 2004, which is the first time TPHg had not been detected within this piezometer. Piezometer 1065PZ1A is located downgradient of the interim removal action that took place in November 2003. TPHg was not detected within this piezometer during the Fourth Quarter 2005, but has been present throughout 2005 and 2006. TPHd was detected in 1065PZ1A at a concentration of 58 µg/L during the First Quarter 2006, which is significant because this is the first time TPHd has been detected within this piezometer since 2001.

TPHg was detected in the sample collected from 1065MW11B at a concentration of 190 µg/L during the First Quarter 2006, which is significant because this was the first time TPHg had been detected within this monitoring well. Future concentrations of TPH at this location will continue to be monitored and trends identified as they become apparent.

TPHg was detected in the primary sample collected from 1047MW101 at a concentration of 51 µg/L during the First Quarter 2006. TPHg was not detected within the duplicate or the QC duplicate samples collected from 1047MW101 during the First Quarter 2006, nor was it detected in the Second Quarter 2006.

TPHd was detected at concentration 55 µg/L in monitoring well 1065MW10A, which is significant because this was the first time TPHd had been detected within this monitoring well. Future concentrations of TPH at this location will continue to be monitored and trends identified as they become apparent.

No other TPH compounds were detected in any other groundwater samples collected from Building 1065 Area wells or piezometers during the First or Second Quarters 2005 (Figures A-11-2 and A-11-3).

7.0 GROUNDWATER REDOX EVALUATION

Several parameters were measured in the field and in the laboratory to help determine the redox state of groundwater at the Building 1065 Area. The following parameters were included in the groundwater monitoring program at the Building 1065 Area during the First and Second Quarters 2006 and are indicators of changing redox potential within groundwater. ORP measurements are located in the purge records, which are located at the conclusion of this section. The analytes and their use, in terms of determining the current redox state of site groundwater, are listed below.

- **Dissolved Oxygen** – Dissolved oxygen is a field measurement that is collected using a flow through cell or a down-hole probe. Low dissolved oxygen concentrations are typically associated with low redox potential and reducing environments. Dissolved oxygen in the presence of organic carbon is consumed by microorganisms during biodegradation processes and therefore low dissolved oxygen concentrations are indicative of microbial activity.

- **ORP** – ORP is a measurement that is collected in the field with the use of a flow through cell. Groundwater is pumped directly from the aquifer into the flow through cell without being exposed to air. The ORP is then measured by sensors within the flow through cell and recorded. ORP is a direct measurement of redox potential. However, ORP is not equivalent to redox potential. Depending on the type of sensor used and the temperature of the water, redox potential (eH) can be calculated. In general, the lower the ORP values the more reducing the water is, where as, the greater the ORP value the more oxidizing the water is. ORP measurements are recorded on the monitoring well purge records.

- **Nitrate/Nitrite** – The process of denitrification reduces nitrate to nitrite, which is ultimately reduced to nitrogen gas in reducing environments. A decreasing nitrate concentration trend in groundwater can be indicative of low redox potential, microbial metabolism and a reducing environment. Increasing concentrations of nitrate are typically associated with a rising redox potential.

- **Sulfate/Sulfide** – Decreasing concentrations of sulfate indicate sulfate reduction is taking place due to a reducing environment. Decreasing concentrations of sulfate are usually associated with sulfide production (i.e. sulfide is a product of sulfate reduction) and the repeated presence of sulfide in groundwater further confirms that sulfate is being reduced.

- **TOC** – Decreasing trends in TOC over time indicate that microbial metabolism is taking place and TOC is being consumed.

- **Dissolved Arsenic, Iron and Manganese** – Increasing concentrations of arsenic, iron, and/or manganese can be typically associated with a decreasing redox potential. Decreasing concentrations of these metals in association with increasing sulfate concentrations can be associated with an increasing redox potential.

The majority of the above analytes and field measurements, were collected within all Building 1065 Area monitoring wells proposed for sampling during the First and Second Quarters 2006.

The following analytical results were detected during the First and Second Quarters 2006 and provide an indication of the groundwater redox state at Building 1065/1027.

- Dissolved oxygen concentration measurements during the First Quarter 2006, ranged from 0.05 to 4.87 mg/L, and in the Second Quarter 2006 from 0.14 to 4.21 mg/L. Dissolved oxygen measurements fluctuated within the shallow and intermediate zone in both the First and Second Quarter when compared to previous data and there was no clear trend between dissolved oxygen levels versus zone.

- Nitrate was detected more often at higher concentrations in the intermediate zone wells and piezometers.

- Nitrite was not detected within any Building 1065/1027 monitoring wells sampled during the First or Second Quarters 2006 (Table A-11-2).

- Sulfate was detected in the majority of groundwater samples collected from Building 1065/1027 during the First and Second Quarters 2006.

- Sulfide was detected at three locations during the First and/or Second Quarters 2006 at concentrations ranging from 0.04 to 0.17 mg/L.

- TOC was detected in all Building 1065 Area monitoring wells and piezometers for which it was analyzed during the First Quarter 2006. During the First Quarter 2006, TOC concentrations ranged from 2.1 to 43.5 mg/L in 1065MW9A and 1065PZ5AR, respectively. TOC was not measured during the Second Quarter 2006.

In addition to the above evaluation, modified redox diagrams were developed for each Building 1065 Area monitoring well/piezometer sampled for redox parameters. The redox diagrams were generated using the Sequence™ program and concentrations of shallow and intermediate zone dissolved oxygen, nitrate, manganese, iron, sulfate and methane and are plotted on Figures A-11-6 and A-11-7, respectively. Each redox diagram consists of multiple axes, with each individual axis representing one of the above analytes. Each redox diagram is associated with one monitoring location. The relative shape of each redox diagram represents an approximation of the redox state within the location studied. In general, the larger the polygon

the more oxidizing the groundwater environment is at the well location, conversely, the smaller the polygon the more reducing the environment. Building 1065 Area redox diagrams (Figures A-11-6 and A-11-7) illustrate the differing redox environments across the site.

8.0 CONCLUSIONS AND RECOMMENDATIONS

Dissolved arsenic and iron concentrations were observed to drop during the Fourth Quarter 2004 within 1065PZ1A and 1065PZ2A, which are located downgradient of the interim removal action conducted in November 2003. The drop in concentration during the Fourth Quarter 2004 was believed to be a result of the interim remedial action. However, a rebound in arsenic and iron concentrations within these piezometers is currently occurring. Dissolved arsenic and iron concentrations will continue to be monitored downgradient of the interim removal action and new trends will be identified as they become apparent.

Potential changes to the groundwater flow patterns and any potential impact to contaminant migration will continue to be evaluated in future quarterly monitoring events.

Groundwater sampling frequency was reduced to annual within all Building 1065/1027 Area wells and piezometers, except 1065PZ1A, 1065PZ1B, 1065PZ2A, 1065PZ4A, 1065PZ5AR, 1065MW9A, 1065MW9B, 1065MW101, 1065MW102, and 1047MW101 until the Building 1065/1027 Area CAP is approved and implemented, at which time the groundwater monitoring program will be conducted in accordance with the CAP.

Table 6. Cleanup Levels for Groundwater
Building 1065 Area Corrective Action Plan
Presidio of San Francisco, California

Chemical [a]	Cleanup Level Outside of FEPZ/Ecological Buffer Zone (µg/L)	Cleanup Level Inside FEPZ/Ecological Buffer Zone (µg/L)	Source of Cleanup Level [b]
Total Petroleum Hydrocarbons (TPH)			
TPH as gasoline	770	443	Presidio-Wide Cleanup Level Document/TPH POC Concentrations
Metals / Inorganics			
Antimony	6	6	Presidio-Wide Cleanup Level Document
Arsenic	10	10	Basin Plan
Volatile Organic Compounds (VOCs)			
Benzene	1	1	Presidio-Wide Cleanup Level Document
Ethylbenzene	300	300	California MCL
Toluene	150	150	Presidio-Wide Cleanup Level Document
Xylenes	1,750	318	California MCL/Presidio-Wide Cleanup Level Document

µg/L	Micrograms per liter.
MCL	Maximum contaminant level.
--	Not available - where no level is listed, there are no Presidio cleanup levels or federal or California MCLs for the compound.

[a] Only identified groundwater COCs or PCOCs are listed.

[b] Presidio-wide Cleanup Level Document (PWCLD; *EKI, 2002*), Table 7-6.
Development of Freshwater TPH-diesel and TPH-fuel oil Point of Compliance Concentrations (BBL, 2004)
Federal and California MCL on http://www.dhs.ca.gov/ps/ddwem/chemicals/MCL/EPAandDHS.pdf
RWQCB Basin Plan (*RWQCB, 2004*)

Checked AM

Approved MZH

Table A-11-1
Summary of Dissolved Oxygen Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ1A (shallow)	05/24/06	0.38	-124.1	7	17.68
	03/14/06	1.23	3.5	6.88	12.67
	12/01/05	0.7	NR	NR	NR
	08/31/05	0.5	NR	NR	NR
	06/02/05	0.29	NR	NR	NR
	03/29/05	0.4	NR	NR	NR
	12/17/04	0.9	NR	NR	NR
	08/11/04	0.1	NR	NR	NR
	05/26/04	0.2	NR	NR	NR
	03/19/04	0.2	NR	NR	NR
	12/05/03	0.3	NR	NR	NR
	08/19/03	0.14	NR	NR	NR
	06/11/03	0.5	NR	NR	NR
	03/17/03	0.09	NR	NR	NR
	12/06/02	0.13	NR	NR	NR
	09/05/02	0.79	NR	NR	NR
	05/30/02	1.1	NR	NR	NR
	03/07/02	0.53	NR	NR	NR
	11/29/01	0.17	NR	NR	NR
	09/06/01	0.28	NR	NR	NR
	05/11/01	0.36	NR	NR	NR
	05/27/99	6.83 (J25)	NR	NR	NR
	03/08/99	0.56	NR	NR	NR
	11/30/98	2.98	NR	NR	NR
	08/26/98	1.75	NR	NR	NR
	06/10/98	1.31	NR	NR	NR
	03/16/98	2.99	NR	NR	NR
	12/18/97	0.61	NR	NR	NR
	09/17/97	0.87	NR	NR	NR
1065PZ1B (intermediate)	05/24/06	2.7	2.2	7.68	18.13
	03/07/06	0.05	-0.2	7.7	16.9
	11/29/05	0.91	NR	NR	NR
	08/30/05	0.7	NR	NR	NR
	05/24/05	0.7	NR	NR	NR
	04/05/05	0.9	NR	NR	NR
	12/17/04	0.7	NR	NR	NR
	08/13/04	0.8	NR	NR	NR
	05/27/04	0.56	NR	NR	NR
	03/10/04	1	NR	NR	NR
	12/03/03	0.9	NR	NR	NR
	08/13/03	1	NR	NR	NR
	06/03/03	1	NR	NR	NR
	03/17/03	0.2	NR	NR	NR
	12/09/02	0.7	NR	NR	NR
	09/03/02	0.7	NR	NR	NR
	06/03/02	1.1	NR	NR	NR
	03/13/02	0.8	NR	NR	NR
	12/03/01	4	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ1B (intermediate)	09/05/01	0.6	NR	NR	NR
	05/16/01	3.22	NR	NR	NR
	05/27/99	0.59	NR	NR	NR
	03/08/99	0.19	NR	NR	NR
	11/30/98	0.21	NR	NR	NR
	08/26/98	0.16	NR	NR	NR
	06/10/98	0.14	NR	NR	NR
	03/16/98	0.51	NR	NR	NR
	12/18/97	0.29	NR	NR	NR
	09/17/97	0.6	NR	NR	NR
1065PZ2A (shallow)	05/24/06	0.14	-116.8	7.12	19.66
	03/13/06	0.43	-104.1	7.02	15.75
	12/01/05	0.4	NR	NR	NR
	08/30/05	0.3	NR	NR	NR
	05/24/05	0.2	NR	NR	NR
	04/01/05	0.2	NR	NR	NR
	12/15/04	0.2	NR	NR	NR
	08/11/04	0.1	NR	NR	NR
	05/25/04	0.1	NR	NR	NR
	03/15/04	0.2	NR	NR	NR
	12/05/03	0.15	NR	NR	NR
	08/19/03	0.2	NR	NR	NR
	06/04/03	0.2	NR	NR	NR
	03/17/03	0.06	NR	NR	NR
	12/05/02	0.1	NR	NR	NR
	09/05/02	0.52	NR	NR	NR
	05/29/02	1.1	NR	NR	NR
	03/07/02	0.11	NR	NR	NR
	11/29/01	0.18	NR	NR	NR
	09/05/01	0.38	NR	NR	NR
	05/11/01	0.25	NR	NR	NR
	05/25/99	6.78 (J25)	NR	NR	NR
	03/03/99	0.79	NR	NR	NR
	11/24/98	1.02 (J25)	NR	NR	NR
	08/25/98	0.34	NR	NR	NR
	06/09/98	0.39	NR	NR	NR
	03/12/98	1.02	NR	NR	NR
	12/17/97	0.47	NR	NR	NR
	09/16/97	1	NR	NR	NR
1065PZ2B (intermediate)	03/07/06	0.12	-0.9	7.25	17.9
	04/05/05	0.9	NR	NR	NR
	03/10/04	0.23	NR	NR	NR
	12/03/03	1	NR	NR	NR
	08/13/03	0.9	NR	NR	NR
	06/06/03	0.97	NR	NR	NR
	03/17/03	0.4	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ2B (intermediate)	12/09/02	0.8	NR	NR	NR
	09/04/02	0.8	NR	NR	NR
	06/03/02	1.1	NR	NR	NR
	03/13/02	0.6	NR	NR	NR
	12/04/01	1.5	NR	NR	NR
	09/05/01	0.7	NR	NR	NR
	05/16/01	5.82	NR	NR	NR
	05/25/99	1.87	NR	NR	NR
	03/03/99	0.77	NR	NR	NR
	11/24/98	0.61	NR	NR	NR
	08/25/98	0.53	NR	NR	NR
	06/09/98	0.53	NR	NR	NR
	03/12/98	0.59	NR	NR	NR
	12/17/97	0.71	NR	NR	NR
	09/16/97	0.31	NR	NR	NR
1065PZ3A (shallow)	03/13/06	1.77	223.1	6.87	14.93
	04/05/05	3.4	NR	NR	NR
	03/15/04	3.8	NR	NR	NR
	12/08/03	NM	NR	NR	NR
	08/19/03	NM	NR	NR	NR
	06/02/03	NM	NR	NR	NR
	03/14/03	NM	NR	NR	NR
	12/05/02	3.7	NR	NR	NR
	09/05/02	3.5	NR	NR	NR
	05/29/02	2.5	NR	NR	NR
	03/07/02	2.75	NR	NR	NR
	11/29/01	3.44	NR	NR	NR
	09/05/01	8.56	NR	NR	NR
	05/11/01	1.62	NR	NR	NR
	05/24/99	8.59	NR	NR	NR
	03/01/99	7.59	NR	NR	NR
	11/23/98	NM	NR	NR	NR
	08/24/98	7.52	NR	NR	NR
	06/08/98	5.6	NR	NR	NR
	03/11/98	4.69	NR	NR	NR
	12/16/97	5.03	NR	NR	NR
1065PZ3B (intermediate)	03/09/06	0.72	286.2	7.21	16.9
	04/06/05	2.2	NR	NR	NR
	03/10/04	0.69	NR	NR	NR
	12/03/03	1	NR	NR	NR
	08/14/03	1.1	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ3B (intermediate)	06/03/03	3.3	NR	NR	NR
	03/18/03	2.6	NR	NR	NR
	12/10/02	2.9	NR	NR	NR
	09/03/02	1	NR	NR	NR
	06/04/02	3.7	NR	NR	NR
	03/13/02	0.8	NR	NR	NR
	12/04/01	5	NR	NR	NR
	09/05/01	4	NR	NR	NR
	05/17/01	7.33	NR	NR	NR
	05/24/99	2.4	NR	NR	NR
	03/01/99	2.09	NR	NR	NR
	11/23/98	1.96	NR	NR	NR
	08/24/98	2.51	NR	NR	NR
	06/08/98	2.31	NR	NR	NR
	03/11/98	2.7	NR	NR	NR
	12/16/97	3.02	NR	NR	NR
	09/15/97	3.09	NR	NR	NR
1065PZ4A (shallow)	05/24/06	0.74	-125.9	6.85	19.04
	03/09/06	0.51	-112.8	5.19	16.59
	11/29/05	0.3	NR	NR	NR
	08/30/05	0.2	NR	NR	NR
	06/02/05	0.28	NR	NR	NR
	04/01/05	0.1	NR	NR	NR
	03/15/04	0.3	NR	NR	NR
	12/05/03	0.2	NR	NR	NR
	08/19/03	0.12	NR	NR	NR
	06/11/03	0.35	NR	NR	NR
	03/14/03	0.09	NR	NR	NR
	12/05/02	0.15	NR	NR	NR
	09/05/02	0.31	NR	NR	NR
	06/04/02	0.25	NR	NR	NR
	03/07/02	2.53	NR	NR	NR
	11/29/01	0.11	NR	NR	NR
	09/05/01	0.36	NR	NR	NR
	05/11/01	0.27	NR	NR	NR
	05/27/99	0.62	NR	NR	NR
	03/08/99	0.17	NR	NR	NR
	12/01/98	0.21	NR	NR	NR
	08/27/98	0.17	NR	NR	NR
	06/11/98	1.99 (J25)	NR	NR	NR
	03/17/98	0.63	NR	NR	NR
	12/22/97	0.31	NR	NR	NR
	09/18/97	0.39	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ4B (intermediate)	03/13/06	1.79	146	6.9	16.3
	04/05/05	3.2	NR	NR	NR
	12/17/04	NM	NR	NR	NR
	03/17/04	0.33	NR	NR	NR
	12/05/03	1.6	NR	NR	NR
	08/14/03	1.2	NR	NR	NR
	06/06/03	1.7	NR	NR	NR
	03/17/03	1.3	NR	NR	NR
	12/09/02	2.5	NR	NR	NR
	09/04/02	1.7	NR	NR	NR
	06/04/02	2.2	NR	NR	NR
	03/13/02	2.8	NR	NR	NR
	12/04/01	4	NR	NR	NR
	09/05/01	0.96	NR	NR	NR
	05/09/01	2.1	NR	NR	NR
	05/27/99	1.47	NR	NR	NR
	03/08/99	1.22	NR	NR	NR
	12/01/98	1.17	NR	NR	NR
	08/27/98	1.9	NR	NR	NR
	06/11/98	2.13	NR	NR	NR
	03/17/98	1.2	NR	NR	NR
	12/22/97	1.22	NR	NR	NR
	09/18/97	1.5	NR	NR	NR
1065PZ5AR (shallow)	05/24/06	4.21	-88.3 NM	7.11	15.5
	03/07/06	0.41	12	7.13	12.9
	11/29/05	0.72	NR	NR	NR
	08/30/05	0.8	NR	NR	NR
	05/24/05	0.5	NR	NR	NR
	04/11/05	0.1	NR	NR	NR
	03/10/04	0.11	NR	NR	NR
	12/08/03	1	NR	NR	NR
	08/14/03	1	NR	NR	NR
	06/09/03	NM	NR	NR	NR
	03/17/03	0.2	NR	NR	NR
1065PZ5B (intermediate)	03/13/06	3.98	122	7	14.4
	04/11/05	3	NR	NR	NR
	03/10/04	0.21	NR	NR	NR
	12/08/03	1.5	NR	NR	NR
	08/14/03	1.2	NR	NR	NR
	06/04/03	2	NR	NR	NR
	03/17/03	1.8	NR	NR	NR
	12/10/02	2.3	NR	NR	NR
	09/03/02	1	NR	NR	NR
	06/04/02	3	NR	NR	NR
	03/13/02	3.2	NR	NR	NR
	12/03/01	3.8	NR	NR	NR
	09/05/01	1.4	NR	NR	NR
	05/16/01	4.35	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ5B (intermediate)	05/25/99	2.51	NR	NR	NR
	03/03/99	2.46	NR	NR	NR
	11/24/98	2.62	NR	NR	NR
	08/25/98	3.46	NR	NR	NR
	06/09/98	2.65	NR	NR	NR
	03/12/98	2.22	NR	NR	NR
	12/17/97	2.59	NR	NR	NR
	09/16/97	2.1	NR	NR	NR
1065PZ6A (shallow)	04/06/05	2.3	NR	NR	NR
	03/17/04	0.32	NR	NR	NR
	12/08/03	0.2	NR	NR	NR
	08/14/03	1.3	NR	NR	NR
	06/10/03	4.2	NR	NR	NR
	03/17/03	3.8	NR	NR	NR
	12/10/02	4.1	NR	NR	NR
	09/04/02	1.2	NR	NR	NR
	06/04/02	5.1	NR	NR	NR
	03/13/02	3.8	NR	NR	NR
	12/04/01	3.8	NR	NR	NR
	09/05/01	1.49	NR	NR	NR
	05/17/01	5.61	NR	NR	NR
	05/24/99	5.36	NR	NR	NR
	03/01/99	5.35	NR	NR	NR
	11/23/98	4.63	NR	NR	NR
	08/24/98	5.09	NR	NR	NR
	06/08/98	4.28	NR	NR	NR
	03/11/98	5.17	NR	NR	NR
	12/16/97	4.44	NR	NR	NR
	09/15/97	3.51	NR	NR	NR
1065PZ6B (intermediate)	03/10/06	1.27	137.1	6.69	17.9
	04/05/05	1.1	NR	NR	NR
	03/09/04	0.91	NR	NR	NR
	12/03/03	1.1	NR	NR	NR
	08/13/03	1.1	NR	NR	NR
	06/03/03	0.9	NR	NR	NR
	03/17/03	1.6	NR	NR	NR
	12/09/02	2.8	NR	NR	NR
	09/03/02	1.1	NR	NR	NR
	06/04/02	3.5	NR	NR	NR
	03/13/02	0.9	NR	NR	NR
	12/04/01	2	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ6B (intermediate)	09/05/01	1.8	NR	NR	NR
	05/11/01	6.8	NR	NR	NR
	05/24/99	3.09	NR	NR	NR
	03/01/99	2.67	NR	NR	NR
	11/23/98	2.8	NR	NR	NR
	08/24/98	2.9	NR	NR	NR
	06/08/98	2.77	NR	NR	NR
	03/11/98	2.87	NR	NR	NR
	12/16/97	2.57	NR	NR	NR
	09/15/97	2.21	NR	NR	NR
1065PZ7A (shallow)	03/15/06	4.47	270	6.29	14.8
	04/06/05	1.1	NR	NR	NR
	03/17/04	0.1	NR	NR	NR
	12/08/03	2.2	NR	NR	NR
	08/13/03	0.8	NR	NR	NR
	06/10/03	0.5	NR	NR	NR
	03/17/03	0.1	NR	NR	NR
	12/09/02	1.1	NR	NR	NR
	09/04/02	1.2	NR	NR	NR
	06/04/02	1.3	NR	NR	NR
	03/13/02	1.5	NR	NR	NR
	12/03/01	0.7	NR	NR	NR
	09/05/01	1.71	NR	NR	NR
	05/09/01	2.5	NR	NR	NR
	05/27/99	5.58 (J25)	NR	NR	NR
	03/08/99	2.27	NR	NR	NR
	12/01/98	2.21	NR	NR	NR
	08/26/98	1.61	NR	NR	NR
	06/10/98	0.99	NR	NR	NR
	03/16/98	2.89	NR	NR	NR
	12/18/97	1.5	NR	NR	NR
	09/17/97	1.22	NR	NR	NR
1065PZ7B (intermediate)	03/15/06	0.9	180.3	6.98	14.5
	04/06/05	1.3	NR	NR	NR
	03/17/04	2.2	NR	NR	NR
	12/08/03	3.2	NR	NR	NR
	08/13/03	0.5	NR	NR	NR
	06/10/03	2.8	NR	NR	NR
	03/17/03	2	NR	NR	NR
	12/09/02	5.1	NR	NR	NR
	09/04/02	1.2	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065PZ7B (intermediate)	06/04/02	2.7	NR	NR	NR
	03/13/02	2.4	NR	NR	NR
	12/03/01	0.8	NR	NR	NR
	09/05/01	1.91	NR	NR	NR
	05/09/01	4.5	NR	NR	NR
	05/27/99	3.66	NR	NR	NR
	03/08/99	3	NR	NR	NR
	12/01/98	3.65	NR	NR	NR
	08/26/98	3.11	NR	NR	NR
	06/10/98	2.45	NR	NR	NR
	03/16/98	3.91	NR	NR	NR
	12/18/97	2.31	NR	NR	NR
	09/17/97	2.14	NR	NR	NR
1065TMW03 (shallow)	06/02/03	NM	NR	NR	NR
	03/14/03	NM	NR	NR	NR
	12/09/02	NM	NR	NR	NR
	09/06/02	NM	NR	NR	NR
	06/06/02	NM	NR	NR	NR
	03/11/02	NM	NR	NR	NR
	11/29/01	NM	NR	NR	NR
	09/06/01	NM	NR	NR	NR
	05/18/01	6.47	NR	NR	NR
	05/27/99	3.66	NR	NR	NR
	03/08/99	3	NR	NR	NR
	12/01/98	3.65	NR	NR	NR
	08/26/98	3.11	NR	NR	NR
	06/10/98	2.45	NR	NR	NR
	03/16/98	3.91	NR	NR	NR
	12/18/97	2.31	NR	NR	NR
	09/17/97	2.14	NR	NR	NR
1065MW9A (shallow)	05/24/06	2.13	-112	6.81	18.2
	03/09/06	0.59	121.3	6.9	15.5
	11/30/05	0.77	NR	NR	NR
	08/31/05	0.7	NR	NR	NR
	05/24/05	0.7	NR	NR	NR
	04/06/05	1.1	NR	NR	NR
	12/17/04	0.85	NR	NR	NR
	08/11/04	0.3	NR	NR	NR
	05/27/04	0.5	NR	NR	NR
	03/10/04	0.39	NR	NR	NR
	12/08/03	1.6	NR	NR	NR
	08/14/03	0.9	NR	NR	NR
	06/09/03	3.1	NR	NR	NR
	03/18/03	1.4	NR	NR	NR
1065MW9B (intermediate)	05/25/06	0.36	57.7	6.8	17.3
	03/09/06	0.61	200.1	7.51	15.5
	11/29/05	0.9	NR	NR	NR
	05/24/05	0.7	NR	NR	NR
	04/06/05	2.1	NR	NR	NR
	12/17/04	0.6	NR	NR	NR
	08/11/04	1.6	NR	NR	NR
	05/27/04	0.76	NR	NR	NR
	03/10/04	0.37	NR	NR	NR
	12/08/03	3	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1065MW9B (intermediate)	08/13/03	0.9	NR	NR	NR
	06/09/03	2.1	NR	NR	NR
	03/18/03	1.4	NR	NR	NR
1065MW10A (shallow)	03/16/06	0.5	-120.3	6.65	14.8
	04/11/05	0.8	NR	NR	NR
	03/10/04	0.24	NR	NR	NR
	12/08/03	0.8	NR	NR	NR
	08/14/03	0.8	NR	NR	NR
	06/06/03	0.6	NR	NR	NR
	03/18/03	1.2	NR	NR	NR
1065MW10B (intermediate)	03/09/06	NM	NM	7.06	15.3
	04/11/05	2.6	NR	NR	NR
	03/10/04	1.7	NR	NR	NR
	12/03/03	2.6	NR	NR	NR
	08/13/03	1	NR	NR	NR
	06/03/03	0.9	NR	NR	NR
	03/18/03	1.9	NR	NR	NR
1065MW11A (shallow)	03/09/06	0.52	112.1	7.69	14.3
	04/11/05	1.2	NR	NR	NR
	03/17/04	0.92	NR	NR	NR
	12/08/03	5.8	NR	NR	NR
	08/14/03	0.8	NR	NR	NR
	06/06/03	7.7	NR	NR	NR
	03/18/03	0.4	NR	NR	NR
1065MW11B (intermediate)	03/07/06	NM	NM	7	12.9
	04/11/05	2.2	NR	NR	NR
	03/09/04	1.91	NR	NR	NR
	12/04/03	2.91	NR	NR	NR
	08/13/03	1.2	NR	NR	NR
	06/03/03	1.2	NR	NR	NR
	03/18/03	1.1	NR	NR	NR
1065MW101 (shallow)	05/24/06	0.22	-101.4	6.87	18.98
	03/13/06	0.82	-95.5	6.88	14.46
	11/29/05	0.8	NR	NR	NR
	08/31/05	0.7	NR	NR	NR
	05/26/05	0.3	NR	NR	NR
	03/29/05	0.2	NR	NR	NR
	12/17/04	0.3	NR	NR	NR
	08/13/04	0.2	NR	NR	NR
1065MW102 (shallow)	05/24/06	0.25	-40.6	6.73	17.89
	03/14/06	4.87	91.1	6.72	11.69
	11/29/05	0.6	NR	NR	NR
	08/30/05	0.2	NR	NR	NR
	05/24/05	1.3	NR	NR	NR
	03/29/05	1	NR	NR	NR
	12/15/04	0.2	NR	NR	NR
	08/11/04	0.2	NR	NR	NR
1047MW101 (shallow)	05/25/06	1.21	137.1	6.94	15.9
	03/07/06	1	181.7	7.5	13.8
	11/30/05	0.7	NR	NR	NR
	08/30/05	0.9	NR	NR	NR
	05/26/05	0.6	NR	NR	NR
	04/06/05	1.1	NR	NR	NR

Table A-11-1
Summary of Dissolved Oxygen Measurements
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Dissolved Oxygen	ORP	pH	Temperature
	Analytical Method	Field	Field	Field	Field
		(mg/L)	(mV)	pH units	C°
1047MW101 (shallow)	12/16/04	0.7	NR	NR	NR
	08/13/04	2.8	NR	NR	NR
	05/27/04	0.91	NR	NR	NR
	03/11/04	3.39	NR	NR	NR
	12/10/03	1.5	NR	NR	NR

Notes
mg/L - milligrams per liter
NM - Not measured
NR - Not reported
Table 11 in the main report identifies current and historical data qualifiers.

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ1A (shallow)	05/24/06	590	590	75	0.2	< 0.05	< 0.05	0.88	< 0.04 R
	03/14/06	500	500	64	0.19	0.76	< 0.05	14	< 0.04
	12/01/05	590	590	75	0.24	< 0.05	< 0.05	0.58	< 0.04
	08/31/05	580	580	63	0.24	< 0.05	< 0.05	< 0.5	< 0.04
	06/02/05	580	580	63	0.27	< 0.05	< 0.05	4.7	< 0.04
	03/29/05	480	480	42	0.19	0.37	< 0.05	32	< 0.04
	03/08/99	551	551	64.4	NA	1.7	NA	15	NA
	11/30/98	602	602	89	NA	0.46	NA	< 0.5	NA
	08/26/98	550	550	63	NA	< 0.4	NA	< 5	NA
	06/10/98	572	572	56.4	NA	0.995	NA	9.18	NA
	03/16/98	518	518	48.6	NA	2.84	NA	27.9	NA
	12/18/97	588	588	79.3	NA	0.013	NA	1.08	NA
	09/17/97	272	272	18.4 D	NA	0.678	NA	38.6	NA
1065PZ1B	05/24/06	230	230	98	< 0.1	0.42	< 0.05	43	< 0.04 R
	03/07/06	390	390	180	< 0.1	< 0.05	< 0.05	55	0.06
	11/29/05	350 J+	350	160	< 0.1	0.24	< 0.05	62	< 0.04
(intermediate)	08/30/05	310	310	120	< 0.1 UJ	0.26	< 0.05 UJ	75	< 0.04
	05/24/05	350	350	170	< 0.1	< 0.05	< 0.05	55	0.05
DUP0524052A	05/24/05	370	370	170	< 0.1	0.05	< 0.05	57	< 0.04
	04/05/05	380	380	170	< 0.1	0.09	< 0.05	57	< 0.04
	03/08/99	391	391	65	NA	< 0.08	NA	67	NA
	11/30/98	389	389	87.7	NA	0.12	NA	82	NA
	08/26/98	390	390	58	NA	< 0.5	NA	66	NA
	08/26/98	390	390	58	NA	< 0.5	NA	66	NA
	06/10/98	406	406	59	NA	0.051	NA	62.7	NA
	03/16/98	384	384	57.8 D	NA	0.02	NA	63.8 D	NA
	12/18/97	393	393	65.9 D	NA	< 0.01	NA	71.4 D	NA
	09/17/97	372	372	61.7 D	NA	0.09	NA	72 D	NA

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ2A (shallow)	05/24/06	340	340	59	0.26	< 0.05	< 0.05	5.5	< 0.04 R
	03/13/06	270	270	90	0.29	< 0.05 UJ	< 0.05 UJ	18	< 0.04 UJ
	12/01/05	340	340	37	0.28	< 0.05	< 0.05	2.9	< 0.04
	08/30/05	350	350	37	0.28 J-	< 0.05	< 0.05 UJ	< 0.5	< 0.04
	05/24/05	330	330	39	0.24	< 0.05	< 0.05	< 0.5	< 0.04
	04/01/05	300	300	30	0.28	0.13	< 0.05	33	< 0.04
DUP0401052A	04/01/05	290	290	30	0.32	0.16	< 0.05	35	< 0.04
	03/03/99	353	353	63.7	NA	< 0.04	NA	12	NA
	11/24/98	368	368	99.7	NA	1.1	NA	26	NA
	08/25/98	350	350	57	NA	< 1	NA	< 13	NA
	08/25/98	NA	350	NA	NA	NA	NA	NA	NA
	06/09/98	383	383	62.9	NA	0.074	NA	2.22	NA
	03/12/98	358	358	67.3 D	NA	0.012	NA	1.67	NA
	12/17/97	385	385	81.8 D	NA	0.01	NA	1.84	NA
	09/16/97	358	358	77.2 D	NA	< 0.01	NA	4.34	NA
1065PZ2B (intermediate)	03/07/06	200	200	36	< 0.1	2.8	< 0.05	55	< 0.04
	04/05/05	180	180	35	< 0.1	2.6	0.06	50	< 0.04
	03/03/99	NA	156	51.5	NA	5.2	NA	52	NA
	11/24/98	NA	162	60.6	NA	5.1	NA	58	NA
	08/25/98	NA	150	38	NA	3.9	NA	43	NA
	06/09/98	NA	156	43.5	NA	4.56	NA	48.5	NA
	03/12/98	NA	162	54 D	NA	4.57 D	NA	51.2 D	NA
	12/17/97	NA	165	58.4 D	NA	4.82	NA	61.8 D	NA
	09/16/97	NA	160	57.5 D	NA	4.46 D	NA	61.1 D	NA
1065PZ3A (shallow)	03/13/06	280	280	32	0.28	0.17 J-	< 0.05 UJ	20	< 0.04 UJ
	04/05/05	430	430	71	0.26	1	< 0.05	78	< 0.04
DUP0405052A	04/05/05	420	420	71	0.27	1	< 0.05	78	< 0.04
1065PZ3ACL	04/05/05	435	435	73	0.39	1.03	< 0.02 U	79	< 0.04 U
	03/01/99	NA	245	35	NA	1	NA	32	NA
	11/23/98	NA	245	36	NA	3.2	NA	38	NA
	08/24/98	NA	240	15	NA	1	NA	19	NA
	06/08/98	NA	280	9.19 D	NA	1.42	NA	14.3	NA
	03/11/98	NA	370	34.2 D	NA	1.1 D	NA	26.4 D	NA
	12/16/97	NA	563	41.9 D	NA	2.06	NA	43.2 D	NA

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ3B (intermediate)	03/09/06	250	250	67	< 0.1	2.4	< 0.05	83	< 0.04 UJ
	04/06/05	270	270	69	< 0.1	2.1	< 0.05	83	< 0.04 UJ
	03/01/99	NA	263	111	NA	3.7	NA	100	NA
	11/23/98	NA	261	41	NA	1.3	NA	36	NA
	08/24/98	NA	260	82	NA	3.1	NA	78	NA
	06/08/98	NA	250	93.6 D	NA	3.82 D	NA	89.5 D	NA
	03/11/98	NA	238	91.8 D	NA	3.54 D	NA	76.2 D	NA
	12/16/97	NA	475	95.3 D	NA	4.02	NA	85.2 D	NA
	09/15/97	NA	226	70 D	NA	3.68 D	NA	64.4 D	NA
1065PZ4A (shallow)	05/24/06	580	580	68	0.16	< 0.05	< 0.05	4.7	< 0.04 R
	03/09/06	640	640	65	< 0.1	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	11/29/05	570 J+	570	61	0.12	< 0.05	< 0.05	< 0.5	< 0.04
	08/30/05	550	550	62	0.12 J-	< 0.05	< 0.05 UJ	< 0.5	< 0.04
	06/02/05	530	530	57	< 2.5	< 1.3	< 1.3	< 13	< 0.04
	04/01/05	500	500	62	0.13	< 0.05	< 0.05	< 0.5	< 0.04
	03/08/99	NA	364	58.7	NA	< 0.04	NA	34	NA
	12/01/98	NA	456	76.9	NA	< 0.04	NA	18	NA
	08/27/98	NA	410	52	NA	< 0.5	NA	33	NA
	06/11/98	NA	380	52.3	NA	< 0.05	NA	38.9	NA
	03/17/98	NA	368	54.9 D	NA	0.01	NA	39.3 D	NA
	12/22/97	NA	475	66.7 D	NA	0.015	NA	25.8 D	NA
	09/18/97	NA	517	72.7 D	NA	0.034	NA	31.7 D	NA
1065PZ4B (intermediate)	03/13/06	280	280	50	< 0.1	4	< 0.05	60	< 0.04 UJ
	04/05/05	270	270	50	< 0.1	4.7	< 0.05	59	< 0.04
	03/08/99	NA	225	55.7	NA	4.2	NA	64	NA
	12/01/98	NA	225	68.2	NA	5.1	NA	71	NA
	08/27/98	NA	210	46	NA	4.3	NA	58	NA
	06/11/98	NA	224	49.2	NA	4.51	NA	59.9	NA
	03/17/98	NA	222	49.5 D	NA	4.56 D	NA	60.2 D	NA
	12/22/97	NA	225	55 D	NA	5.04 D	NA	71.7 D	NA
	09/18/97	NA	216	53.4 D	NA	4.6 D	NA	64.2 D	NA

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ5AR (shallow) DUP0307062B 1065PZ5ARCL	05/24/06	700	700	64	0.25	< 0.05	< 0.05	0.6	< 0.04 R
	03/07/06	780	780	68	0.2	< 0.05	< 0.05	< 0.5	< 0.04
	03/07/06	780	780	68	0.2	< 0.05	< 0.05	< 0.5	< 0.04
	03/07/06	776	776	71.1	< 1 U	< 0.02 U	< 0.02 U	0.5	< 0.05 U UJ
	11/29/05	780 J+	780	68	0.25	< 0.05	< 0.05	< 0.5	< 0.04
	08/30/05	780	780	70	0.27 J-	0.33	0.07 J-	0.67	< 0.04
	05/24/05	670	670	63	0.23	< 0.05	< 0.05	5.3	< 0.04
	04/11/05	790	790	76	0.27	< 0.05	< 0.05	< 0.5	< 0.04
1065PZ5B (intermediate)	03/13/06	230	230	40	< 0.1	3.5	< 0.05	80	< 0.04 UJ
	04/11/05	160	160	41	< 0.1	3.5	< 0.05	75	< 0.04
	03/03/99	NA	174	40.5	NA	4.3	NA	54	NA
	11/24/98	NA	163	44.2	NA	4.4	NA	48	NA
	08/25/98	140	140	26	NA	3.2	NA	33	NA
	06/09/98	NA	150	28.1	NA	3.49	NA	35.3	NA
	03/12/98	NA	154	29.7 D	NA	3.49 D	NA	39.7 D	NA
	12/17/97	NA	153	32.7 D	NA	4.3	NA	46.9 D	NA
	09/16/97	NA	153	33.9 D	NA	4.48 D	NA	49.4 D	NA
1065PZ6A (shallow)	04/06/05	240	240	85	< 0.1	4	< 0.05	100	< 0.04
	03/01/99	NA	255	72.4	NA	5.4	NA	95	NA
	03/01/99	NA	NA	72.4	NA	5.4	NA	95	NA
	11/23/98	251	251	85.8	NA	5.9	NA	110	NA
	08/24/98	240	240	56	NA	4.2	NA	75	NA
	08/24/98	NA	NA	56	NA	4.2	NA	75	NA
	06/08/98	NA	202	65.6 D	NA	18.2 D	NA	92.7 D	NA
	06/08/98	NA	NA	65.6 D	NA	18.2 D	NA	92.7 D	NA
	03/11/98	NA	254	65.8 D	NA	4.63 D	NA	87 D	NA
	03/11/98	NA	NA	65.8 D	NA	4.63 D	NA	87 D	NA
	12/16/97	NA	363	70.1 D	NA	6 D	NA	93.9 D	NA
	09/15/97	250	250	71.2 D	NA	5.58 D	NA	97.5 D	NA
	09/15/97	NA	NA	71.2 D	NA	5.58 D	NA	97.5 D	NA

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ6B (intermediate)	03/10/06	230	230	88	< 0.1	4.3	< 0.05	97	< 0.04 UJ
	04/05/05	230	230	98	< 0.1	3.6	< 0.05	94	< 0.04
	03/01/99	224	224	56.8	NA	5	NA	66	NA
	11/23/98	227	227	64	NA	4.9	NA	70	NA
	08/24/98	220	220	46	NA	4.1	NA	57	NA
	06/08/98	228	228	54.4 D	NA	5.01 D	NA	72.5 D	NA
	03/11/98	230	230	58.6 D	NA	4.9 D	NA	72 D	NA
	12/16/97	500	500	62 D	NA	5.58 D	NA	81 D	NA
	09/15/97	216	216	58.4 D	NA	5.11 D	NA	80.7 D	NA
1065PZ7A (shallow)	03/15/06	240	240	76	< 0.1	2.5	< 0.05	95	< 0.04
	04/06/05	410	410	37	0.14	2.9	< 0.05	62	< 0.04 UJ
	03/08/99	279	279	16	NA	0.24	NA	35	NA
	03/08/99	NA	NA	16	NA	0.24	NA	35	NA
	12/01/98	269	269	19.6	NA	0.42	NA	31	NA
	12/01/98	NA	NA	19.6	NA	0.42	NA	31	NA
	08/26/98	260	260	14	NA	0.33	NA	32	NA
	08/26/98	NA	NA	14	NA	0.33	NA	32	NA
	06/10/98	282	282	18.7 G	NA	0.717	NA	38.8	NA
	06/10/98	NA	NA	18.7 G	NA	0.717	NA	38.8	NA
	03/16/98	276	276	19 D	NA	0.744 D	NA	38.2 D	NA
	03/16/98	NA	NA	19 D	NA	0.744 D	NA	38.2 D	NA
	12/18/97	270	270	18.2 D	NA	0.633	NA	41.1 D	NA
	09/17/97	599	599	82.1 D	NA	0.011	NA	1.69	NA
	09/17/97	NA	NA	82.1 D	NA	0.011	NA	1.69	NA
1065PZ7B (intermediate)	03/15/06	440	440	30	0.13	3.8	< 0.05	61	< 0.04
	04/06/05	240	240	120	< 0.1	3.2	< 0.05	110	0.06 J-
	03/08/99	260	260	46.6	NA	2.6	NA	57	NA
	12/01/98	235	235	56	NA	2.5	NA	61	NA
	08/26/98	240	240	48	NA	2.9	NA	58	NA
	06/10/98	288	288	53.4	NA	2.79	NA	66.3	NA
	03/16/98	270	270	54.8 D	NA	3.28 D	NA	71.2 D	NA
	12/18/97	260	260	63.9 D	NA	3.27	NA	81.8 D	NA
	09/17/97	264	264	57.3 D	NA	3.42 D	NA	72.3 D	NA
1065MW9A (shallow)	05/24/06	430	430	170	0.12	< 0.05	< 0.05	21	< 0.04 R

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
DUP0524063B	05/24/06	430	430	170	0.12	< 0.05	< 0.05	21	< 0.04 R
1065MW9ACL	05/24/06	436		170	< 1 U	< 0.02 U UJ	< 0.02 U	17.3	0.17 J-
	03/09/06	460	460	170	0.12	< 0.05	< 0.05	22	0.07 J-
DUP0309062B	03/09/06	420	420	170	0.11	< 0.05	< 0.05	21	< 0.04 UJ
	11/30/05	450 J+	450	190	0.16	< 0.05	< 0.05	19	< 0.04
DUP1130052B	11/30/05	450 J+	450	180	0.14	< 0.05	< 0.05	19	< 0.04
1065MW9ACL	11/30/05	422	422	202	< 1 U	< 0.1 U UJ	< 0.1 U UJ	18.7	< 0.05 U
	08/30/05	430	430	180	0.13 J-	< 0.05	< 0.05 UJ	22	< 0.04
DUP0830052B	08/30/05	420	420	170	0.13 J-	< 0.05	< 0.05 UJ	22	< 0.04
1065MW9ACL	08/30/05	432	432	159	< 0.3 U	< 0.1 U	< 1 U	22.7	0.05 J-
	05/24/05	410	410	180	0.11	< 0.05	< 0.05	21	< 0.04
	04/06/05	430	430	190	0.18	< 0.05	< 0.05	17	< 0.04 UJ
DUP0406052A	04/06/05	450	450	180	0.17	< 0.05	< 0.05	15	< 0.04 UJ
1065MW9B (intermediate)	05/25/06	250	250	55	< 0.1	5.4	< 0.05	75	< 0.04
	03/09/06	240	240	55	< 0.1	5.4	< 0.05	73	< 0.04 UJ
	11/29/05	240 J+	240	55	< 0.1	5.9	< 0.05	71	< 0.04
	08/30/05	240	240	50	< 0.1 UJ	5.4	< 0.05 UJ	64	< 0.04
	05/24/05	360	360	48	< 0.1	5	< 0.05	65	< 0.04
	04/06/05	250	250	53	< 0.1	5.3	< 0.05	67	< 0.04 UJ
1065MW10A (shallow)	03/16/06	260	260	55	< 0.1	< 0.05	< 0.05	45	< 0.04 R
	04/11/05	220	220	58	0.11	< 0.05	< 0.05	46	< 0.04
1065MW10B (intermediate)	03/09/06	230	230	51	< 0.1	4.5	< 0.05	65	< 0.04 UJ
	04/11/05	240	240	55	< 0.1	4.9	< 0.05	67	< 0.04
1065MW11A (shallow)	03/09/06	120	120	20	0.13	2.8	< 0.05	34	< 0.04 UJ
	04/11/05	240	240	58	0.12	2.9	< 0.05	84	< 0.04
1065MW11B (intermediate)	03/07/06	190	190	77	< 0.1	3.8	< 0.05	78	< 0.04
	04/11/05	250	250	72	< 0.1	3.6	< 0.05	82	< 0.04

Table A-11-2
Results of General Chemistry Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide
	Analytical Method[1]	E310.1	E310.1	E300.0/ SW9056	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065MW101 (shallow)	05/24/06	660	660	44	0.27	< 0.05	< 0.05	< 0.5	< 0.04 R
	03/13/06	600	600	43	0.25	< 0.05	< 0.05	< 0.5	< 0.04 UJ
	11/29/05	680 J+	680	46	0.26	< 0.05	< 0.05	0.5	< 0.04
	08/31/05	730	730	51	0.29 J-	< 0.05	< 0.05 UJ	< 0.5	0.06
	05/26/05	740	740	54	0.35	< 0.05	< 0.05	< 0.5	< 0.04
DUP0526051B	05/26/05	780	780	55	0.35	< 0.05	< 0.05	< 0.5	< 0.04
1065MW101CL	05/26/05	724	724	52	0.3	< 0.1 U	< 1 U	< 1 U	0.140 J-
	03/29/05	670	670	54	0.28	< 0.05	< 0.05	0.98	0.06
1065MW102 (shallow)	05/24/06	330	330	66	0.54	< 0.05	< 0.05	11	0.04 J-
	03/14/06	150	150	26	0.25	0.13	< 0.05	16	0.04
	11/29/05	64 J+	64	15	0.15	0.32	< 0.05	24	< 0.04
	05/24/05	330	330	46	0.4	0.07	< 0.05	31	2.4
	03/29/05	220	220	25	0.46	0.2	< 0.05	33	0.11
1047MW101	03/07/06	30	30	2.9	< 0.1	0.12	< 0.05	2.1	< 0.04
DUP0307062A	03/07/06	29	29	2.9	< 0.1	0.12	< 0.05	2.0	< 0.04
1047MW101CL	03/07/06	31	31	3.4	< 1 U	0.111	< 0.02 U	2.3	< 0.05 U UJ
	04/06/05	95	95	8.9	0.12	0.13	< 0.05	5.1	< 0.04 UJ

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
mg/L - milligrams per liter
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ1A (shallow)	05/24/06	0.09 J	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	160 Y	< 50	< 300
	03/14/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	NA	NA	86	58 Y	< 300
	12/01/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	160	< 50	< 300
	08/31/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	160	< 80	< 480
	06/02/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	170	< 50	< 300
	03/29/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	56	< 50	< 300
	12/17/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	08/11/04	< 0.5	< 0.5	1.2	< 0.5	3	NA	NA	NA	200	< 50	< 300
	05/26/04	< 0.5	1.9	< 0.5	0.76	2.8 C	NA	NA	NA	220	< 50	< 300
	03/19/04	< 0.5	< 0.5	< 0.5	0.78	< 2	NA	NA	NA	230	< 50	< 300
	12/05/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	170	< 50	< 300
	08/19/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	310 H	< 50	< 300
	06/11/03	< 0.5	< 0.5	< 0.5	0.68	< 2	NA	NA	NA	170 Y	< 50	< 300
	03/17/03	< 0.5	1.2 C	0.86	0.77	< 2	NA	NA	NA	140	< 50	< 300
	12/06/02	< 0.5	2.2	< 0.5	1.2	< 2	NA	NA	NA	200 Y	< 50	< 300
	09/05/02	< 0.5	< 0.5	< 0.5	0.92	< 2	NA	NA	NA	180 Y	< 50	< 300
DUP0905021A	09/05/02	< 0.5	< 0.5	< 0.5	0.79	< 2	NA	NA	NA	160 Y	< 50	< 300
	05/30/02	< 0.5	1.6	0.52	1	< 2	NA	NA	NA	120	< 50	< 300
	03/07/02	< 0.5	1.4	< 0.5	0.58	< 2	NA	NA	NA	97	< 50	< 300
	11/29/01	< 0.5	< 0.5	< 0.5	0.96	< 2	NA	NA	NA	190	< 50	< 300
	09/06/01	< 0.5	1.4	< 0.5	0.64	< 2	NA	NA	NA	150	450 [3] Y,NJ	< 300 [3]
DUP0906013A	09/06/01	< 0.5	2.4	< 0.5	0.61	< 2	NA	NA	NA	140	440 [3] Y,NJ	< 300 [3]
1065PZ1ACL	09/06/01	< 0.5	< 0.5	< 0.5	< 0.5	< 5	NA	NA	NA	100 g	< 50	< 300
	05/11/01	< 0.5	< 0.5	< 0.5	0.7	< 2	NA	NA	NA	190 Y	< 50	< 300
	07/18/00	NA	NA	NA	NA	NA	NA	NA	NA	120	< 50	NA
	05/27/99	< 0.5	< 0.5	< 0.5	0.93	NA	NA	NA	NA	110 (J25)	94 (J25)	< 300
	03/08/99	< 0.5	< 0.5	< 0.5	0.91	NA	NA	NA	NA	120 (J25)	< 50	< 300
	11/30/98	< 0.5 (U29)	< 0.5 (U29)	< 0.5 (U29)	0.89 (J29)	NA	NA	NA	NA	180 (J25, J29)	< 76 (U12)	< 310
	08/26/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 2 (U18)	NA	NA	NA	NA	130 (J18, J25)	< 50	< 300
	06/10/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	76 (J25)	65	< 300
	03/16/98	< 0.5	< 0.5	< 0.5	1	NA	NA	NA	NA	77 (J25)	< 50	< 300
	12/18/97	< 0.5	< 0.5	0.67	< 1	NA	NA	NA	NA	150 (J25)	< 50	< 300
	09/17/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	190 (J25)	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ1B	05/24/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
(intermediate)	03/07/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	NA	NA	< 50	< 50	< 300
	11/29/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	350 YZ
	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	05/24/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
DUP0524052A	05/24/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	04/05/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	12/17/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
DUP1217042B	12/17/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	08/13/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 U	NA	NA	NA	< 50	< 50	< 300
	05/27/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP1209023A	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
1065PZ1BCL	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	NA	NA	NA	< 50	< 50	< 250
	09/03/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/03/02	< 0.5	< 0.5	< 0.5	< 0.5	2.4	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/03/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/16/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	<50	<300
	05/27/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	03/08/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	11/30/98	< 0.5 (U29)	< 0.5 (U29)	< 0.5 (U29)	< 0.5 (U29)	NA	NA	NA	NA	< 50 (U29)	< 55 (U12)	< 330
	08/26/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 1 (U18)	NA	NA	NA	NA	< 50 (U18)	< 50	< 300
	06/10/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/16/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/18/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/17/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ2A (shallow)	05/24/06	< 0.5	< 0.5	< 0.5	< 1	7.1	NA	NA	NA	< 50	< 50	< 300
	03/13/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	12/01/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	05/24/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/01/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0401052A	04/01/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	12/15/04	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	< 50	< 50	< 50	< 300
	08/11/04	< 0.5	< 0.5	< 0.5	< 0.5	5	NA	NA	NA	< 50	< 50	< 300
	05/25/04	< 0.5	< 0.5	< 0.5	< 0.5	2.4 C	NA	NA	< 50	< 50	< 50	< 300
	03/15/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/05/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/19/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/29/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/07/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 UJ	< 300 UJ
	11/29/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/11/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0511013A	05/11/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/25/99	< 0.5	0.74	< 0.5	1.1	NA	NA	NA	NA	< 50	68 (U12)	< 300
	03/03/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	11/24/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 51	< 310
	08/25/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	NA	NA	NA	NA	< 50	< 50 (U18)	< 300
	06/09/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/12/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/17/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/16/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	66 (R32)	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ2B	03/07/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
(intermediate)	04/05/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	2.6	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0813032A	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/06/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/03/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/04/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/16/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	<50	< 300
	05/25/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	03/03/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	11/24/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 52	< 310
	08/25/98	< 0.5	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	NA	NA	NA	NA	< 50 (U18)	< 50	< 300
	06/09/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/12/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/17/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/16/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
1065PZ3A	03/13/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
(shallow)	04/05/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0405052A	04/05/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
1065PZ3ACL	04/05/05	< 1 U	< 1 U	< 1 U	< 2 U	< 5 U	NA	NA	NA	< 50 U	< 50 U	< 300 U
	03/15/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/29/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/07/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	11/29/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ3A (shallow)	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/11/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/24/99	< 0.5	0.82	< 0.5	1.1	NA	NA	NA	NA	< 50	59 (J25)	< 300
	03/01/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	11/23/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 61	< 370
	08/24/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	NA	NA	NA	NA	< 50 (U18)	< 50	< 300
	06/08/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/11/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/16/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
1065PZ3B (intermediate)	03/09/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/06/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0814032A	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
1065PZ3BCL	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	NA	NA	NA	< 50	< 48	< 240
	06/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/10/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/03/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/04/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	110 [3] Y,NJ	< 300 [3]
DUP0905012A	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	110 [3] Y,NJ	< 300 [3]
1065PZ3BCL	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 5	NA	NA	NA	< 50	< 50	< 300
	05/17/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0517014A	05/17/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
1065PZ3BCL	05/17/01	< 0.5	< 0.5	< 0.5	< 0.5	< 5	NA	NA	NA	< 50	< 50	<500
	05/24/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	67 (J25)	< 300
	03/01/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	11/23/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 54	< 320
	08/24/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	NA	NA	NA	NA	< 50 (U18)	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ3B (intermediate)	06/08/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/11/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/16/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/15/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
1065PZ4A [4] (shallow)	05/24/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/09/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	11/29/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	06/02/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/01/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/15/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/05/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/19/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/11/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/14/03	< 0.5	< 0.5	< 0.5	< 0.5	5.9	NA	NA	NA	< 50	< 50	< 300
	12/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/07/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 UJ	< 300 UJ
	11/29/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	140 [3] YH,NJ	< 300 [3]
	05/11/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 300	< 50	< 300
	05/27/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	03/08/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/01/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 54 (U12)	< 310
	08/27/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 1 (U18)	NA	NA	NA	NA	< 50 (U18)	< 50	< 300
	06/11/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	56 (J25)	< 300
	03/17/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/22/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	09/18/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ4B [4] (intermediate)	03/13/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/05/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/05/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/06/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/04/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/09/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 300	< 50	< 300
DUP0509012A	05/09/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/27/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	03/08/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/01/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 53 (U12)	< 310
	08/27/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	06/11/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/17/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/22/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	09/18/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50 (U29)	< 300
1065PZ5AR (shallow)	05/24/06	< 0.5	< 0.5	< 0.5	< 1	3.5 C	NA	NA	NA	< 50	< 50	< 300
	03/07/06	< 0.5	0.54 C	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0307062B	03/07/06	< 0.5	< 0.5	< 0.5	< 1	< 2.5 U	NA	NA	NA	< 50	< 50	< 300
1065PZ5ARCL	03/07/06	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2	NA	NA	NA	< 50 U	72 J+	< 300 U
	11/29/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	05/24/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ5AR	04/11/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/09/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
1065PZ5B (intermediate)	03/13/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/11/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0604032B	06/04/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
1065PZ5BCL	06/04/03	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 250
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/10/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/03/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	0.62 C	< 0.5	0.75	< 2	NA	NA	NA	< 50	< 50	< 300
	12/03/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/16/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 300	< 50	< 300
	05/25/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	66 (J25)	< 300
	03/03/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	11/24/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	08/25/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	06/09/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/12/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/17/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/16/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ6A (shallow)	04/06/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/10/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/10/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	< 0.5	< 0.5	0.78	< 2	NA	NA	NA	< 50	< 50	< 300
	12/04/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/17/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 300	< 50	< 300
	05/24/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	51 (J25)	< 300
	03/01/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	480 (J25)	430 (J25)
	11/23/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 320
	08/24/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	06/08/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/11/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/16/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/15/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
1065PZ6B (intermediate)	03/10/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/05/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/09/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/03/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ6B (intermediate)	03/13/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/04/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/11/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 300	< 50	< 300
DUP0511012A	05/11/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 300	< 50	< 300
	05/24/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	03/01/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	11/23/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 52	< 310
	08/24/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	06/08/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/11/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/16/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/15/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
1065PZ7A [4] (shallow)	03/15/06	< 0.5	< 0.5	< 0.5	< 1	**16**	NA	NA	NA	< 50	< 50	< 300
	04/06/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/10/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/03/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/09/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 300	< 50	< 300
	05/27/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	03/08/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/01/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 53 (U12)	< 300
	08/26/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 1 (U18)	NA	NA	NA	NA	< 50 (U18)	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065PZ7A [4] (shallow)	06/10/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/16/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/18/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/17/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50 (U29)	< 300
1065PZ7B [4] (intermediate)	03/15/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/06/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/10/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/09/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/13/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/03/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	09/05/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50 [3]	< 300 [3]
	05/09/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/27/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	03/08/99	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/01/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 55 (U12)	< 330
	08/26/98	< 0.5 (U18)	< 0.5 (U18)	< 0.5 (U18)	< 1 (U18)	NA	NA	NA	NA	< 50 (U18)	< 50	< 300
	06/10/98	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	03/16/98	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50	< 300
	12/18/97	< 0.5	< 0.5	< 0.5	< 1	NA	NA	NA	NA	< 50	< 50	< 300
	09/17/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	< 50	< 50 (U18)	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065TMW03 (shallow)	09/06/02	**1,200**	95	290	200	< 10	NA	NA	NA	**6,200**	NA	NA
	06/06/02	**660**	38	150	99	< 20	NA	NA	NA	**4,100**	< 50	< 300
	03/11/02	**170**	14	38	19	**52 C**	NA	NA	NA	**860**	53 YL	< 300
	11/30/01	**3.4 C**	< 0.5	8.8	6.5	< 2	NA	NA	NA	740	91 YL	< 300
	09/06/01	**520**	18	110	109.9	< 10	NA	NA	NA	**3,300 Z**	3,900 [3] YL,NJ	< 3,100 [3]
	05/18/01	**25**	1.9	29	28.3	< 2	NA	NA	NA	**870**	< 50	< 300
	05/27/99	**730**	43	220	232	NA	NA	NA	NA	**18,000 (J25)**	< 50	< 300
	03/09/99	**270**	39	240	400	NA	NA	NA	NA	**13,000**	< 50	< 300
	12/01/98	**4,300**	**1,400**	**11,000**	**20,000**	NA	NA	NA	NA	**910,000 (J25)**	< 50	< 300
	08/27/98	**1,900 (J18)**	**200 (J18)**	**1,700 (J18)**	**2,400 (J18)**	NA	NA	NA	NA	**56,000 (J18, J25)**	< 50	< 300
	06/11/98	**2,000**	**280**	**1,100**	**2,100**	NA	NA	NA	NA	**90,000 (J25)**	< 50	< 300
	03/17/98	**1,800**	**160**	**810**	1,500	NA	NA	NA	NA	**110,000 (J14, J25, J29)**	< 50	< 300
	12/22/97	**1,800**	**210**	**1,000**	**2,900**	NA	NA	NA	NA	**32,000 (J25)**	< 50	< 300
	09/18/97	**1,900**	< 250	**830**	**2,000**	NA	NA	NA	NA	**23,000 (J25)**	< 50	< 300
1065MW9A (shallow)	05/24/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0524063B	05/24/06	< 0.5	< 0.5	< 0.5	< 1	< 2 U	NA	NA	NA	< 50	< 50	< 300
1065MW9ACL	05/24/06	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2	NA	NA	NA	< 50 U	< 530 U UJ	< 1,000 U UJ
	03/09/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0309062B	03/09/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	11/30/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	61 Y	< 300
DUP1130052B	11/30/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
1065MW9ACL	11/30/05	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2.5 U UJ	NA	NA	NA	< 50 U	< 50 U	< 300 U
	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0830052B	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
1065MW9ACL	08/30/05	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2.5 U	NA	NA	NA	< 50 U	< 50 U	< 300 U
	05/24/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/06/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0406052A	04/06/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	12/17/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	NA	NA	NA	< 50	< 50	< 300
	08/11/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065MW9A (shallow)	05/27/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	53	< 50	< 300
DUP0310042A	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
	12/08/03	0.9	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	120	< 50	< 300
DUP1208031A	12/08/03	0.7	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	130	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/09/03	**33**	< 0.5	< 0.5	5	< 2	NA	NA	NA	350	< 50	< 300
DUP0609032C	06/09/03	**25**	< 0.5	< 0.5	5	< 2	NA	NA	NA	310	< 50	< 300
	03/18/03	**5**	0.59 C	< 0.5	1	< 2 U	NA	NA	NA	160	< 50	< 300
	11/05/02	**3.5**	< 0.5	< 0.5	0.6	< 0.5	< 0.5	ND	NA	150 YL	< 50	< 300
	10/07/02	**2.66**	< 0.2	< 0.2	2.152	< 1	< 0.5	ND	NA	370	480	< 250
1065MW9B (intermediate)	05/25/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/09/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	11/29/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	NA	NA	NA	< 50	< 50	< 300
	05/24/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	12/17/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	NA	NA	NA	< 50	< 50	< 300
	08/13/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0813041A	08/13/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	05/27/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0527042A	05/27/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/09/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0609032B	06/09/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
1065MW9BCL	06/09/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	NA	NA	NA	< 50	< 50	< 250
	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2 U	NA	NA	NA	< 50	< 50	< 300
	11/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	NA	120 YL	< 50	< 300
	10/07/02	< 0.2	< 0.2	< 0.2	< 0.5	< 1	< 0.5	ND	NA	340	< 50	< 250

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065MW10A (shallow)	03/16/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	55 HY	< 300
	04/11/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	2.4	NA	NA	NA	< 50	< 50	< 300
	06/06/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2 U	NA	NA	NA	< 50	< 50	< 300
	11/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	10/07/02	< 0.2	< 0.2	< 0.2	< 0.5	< 1	< 0.5	ND	NA	< 50	< 50	< 250
1065MW10B (intermediate)	03/09/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/11/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	7.5	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA	< 50	< 50	< 300
DUP0318032A	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	4.6	NA	NA	NA	NA	NA	NA
1065MW10BCL	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	NA	NA	NA	< 50	< 50	< 250
	11/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	10/07/02	< 0.2	< 0.2	< 0.2	< 0.5	< 1	< 0.5	ND	NA	< 50	< 50	< 250
1065MW11A (shallow)	03/09/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	04/11/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
DUP0317042B	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/08/03	< 0.5	< 0.5	< 0.5	< 0.5	3.7	NA	NA	NA	< 50	< 50	< 300
	08/14/03	< 0.5	< 0.5	< 0.5	< 0.5	**19**	NA	NA	NA	< 50	< 50	< 300
	06/06/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2 U	NA	NA	NA	< 50	< 50	< 300
DUP0318032B	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	11/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	10/07/02	< 0.2	< 0.2	< 0.2	< 0.5	< 1	< 0.5	ND	NA	< 50	< 50	< 250

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1065MW11B (intermediate)	03/07/06	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	190 YZ	< 50	< 300
	04/11/05	< 0.5	< 0.5	< 0.5	< 1	< 2	NA	NA	NA	< 50	< 50	< 300
	03/09/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	12/04/03	< 0.5	< 0.5	< 0.5	< 0.5	3.1 C	NA	NA	NA	< 50	< 50	< 300
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	06/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA	< 50	< 50	< 300
	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2 U	NA	NA	NA	< 50	< 50	< 300
	11/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	NA	< 50	96 Y	< 300
	10/07/02	< 0.2	< 0.2	< 0.2	< 0.5	< 1	< 0.5	ND	NA	< 50	< 50	< 250
1065MW101 (shallow)	05/24/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	03/13/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	11/29/05	< 0.5	< 0.5	< 0.5	1	< 0.5	0.8	ND	NA	< 50	< 50	< 300
	08/31/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	05/26/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
DUP0526051B	05/26/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
1065MW101CL	05/26/05	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2 U	< 5 U	ND	NA	< 50 U	130	< 300 U
	03/29/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	12/17/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	08/13/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
1065MW102 (shallow)	05/24/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	03/14/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	11/29/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	09/01/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	NA	NA
	05/24/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	03/29/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	NA	< 50	< 50	< 300
	12/15/04	< 0.5	< 0.5	< 0.5	< 1	< 2	< 0.5	ND	NA	< 50	< 50	< 300
	08/11/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2	ND	NA	< 50	< 50	< 300
1027MW01	05/06/96	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 47	< 280
	02/13/96	NA	NA	NA	NA	NA	NA	NA	NA	< 50	< 51	< 310
	11/10/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 50	< 1,300
	08/16/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 50	< 1,300
	06/13/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1027MW03	05/06/96	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 49	< 290
	02/14/96	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 52	< 310
	11/10/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 50	< 1,300
	08/18/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 50	< 1,300
	06/13/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/30/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
DUP1130052C	11/30/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
1047MW101CL	11/30/05	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2 U	< 5 U	ND	< 100 U	< 50 U	NA	NA
	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
DUP0830052A	08/30/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
1047MW101	05/25/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
	03/07/06	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	51 YZ	NA	NA
DUP0307062A	03/07/06	< 0.5	< 0.5	< 0.5	< 1	< 2 U	< 5 U	ND	< 50	< 50	NA	NA
1047MW101CL	03/07/06	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 0.5	< 0.5	ND	< 100 U	< 50 U	NA	NA
	05/26/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
DUP0526052C	05/26/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
1047MW101CL	05/26/05	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 2 U	< 5 U	ND	< 100 U	67	NA	NA
	04/06/05	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
	12/16/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
DUP1216042A	12/16/04	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	ND	< 50	< 50	NA	NA
1047MW101CL	12/16/04	< 0.5 U	< 0.5 U	< 0.5 U	< 1	< 2 U	< 0.5 U	ND	< 1,000 U	< 50 U	NA	NA
	08/13/04	NA	NA	NA	NA	NA	NA	NA	< 50	< 50	NA	NA
	05/27/04	NA	NA	NA	NA	NA	NA	NA	< 50	< 50	NA	NA
DUP0527042B	05/27/04	NA	NA	NA	NA	NA	NA	NA	< 50	< 50	NA	NA
1047MW101CL	05/27/04	NA	NA	NA	NA	NA	NA	NA	NA	< 50	NA	NA

Table A-11-3
Results of BTEX, MTBE, VOCs, and TPH Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Carbon Disulfide	All Other VOCs	Stoddard Solvent (Carbon Range C_7-C_{12})	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260M	SW8260M	SW8260M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Tables [2]		**1**	**150**	**300**	**1,750/318**	**13**	**--**	**--**	**--**	**770/443**	**--**	**--**
1027MW03	03/11/04	NA	NA	NA	NA	NA	NA	NA	< 50	< 50	NA	NA
DUP0311042A	03/11/04	NA	NA	NA	NA	NA	NA	NA	< 50	< 50	NA	NA
1047MW101CL	03/11/04	NA	NA	NA	NA	NA	NA	NA	NA	< 50	NA	NA
	12/10/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	< 50	< 50	NA	NA

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.

2 - Cleanup levels taken from Table 6 of the Building 1065 Area CAP (MACTEC, 2005b). The MTBE cleanup level listed is equal to the California Maximum Contaminant Level (EKI, 2002). Total xylenes and TPHg have two different cleanup levels dependent on if the location is inside or outside of the Ecological Buffer Zone. In both cases, the higher cleanup level applies to wells outside of the Ecological Buffer Zone (e.g. the total xylenes cleanup level for wells outside of the Ecological Buffer Zone is 1,750 µg/L, whereas the cleanup level for wells inside the Ecological Buffer Zone is 318 µg/L). Piezometers 1065PZ7A, 1065PZ7B, 1065PZ4A, and 1065PZ4B are the only Building 1065 monitoring locations located inside the Ecological Buffer Zone.

3 - TPH analysis was not run using the silica gel cleanup method 3630A, although it was marked on the chain of custody.
4 - Piezometers 1065PZ4A, 1065PZ4B, 1065PZ7A, and 1065PZ7B are located within the Ecological Buffer Zone and therefore, the lower cleanup level applies per the CAP.
-- Cleanup level not established
Bold numbers indicate concentrations that exceed cleanup levels.
µg/L - micrograms per liter
NA - Not analyzed
ND - Not detected
TPH - Total petroleum hydrocarbons
BTEX - Benzene, toluene, ethylbenzene, and total xylenes
MTBE - Methyl tert-butyl ether
H - Heavier hydrocarbons contributed to the quantitation.
L - Lighter hydrocarbons contributed to the quantitation.
Y - Sample exhibits a fuel pattern that does not resemble the standard.
Z - Sample exhibits unknown single peak or peaks.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-11-4
Results of Dissolved Metals Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**--**	**6**	**10**	**10**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
1065PZ1A (shallow)	05/24/06	< 100	< 1	21	NA	< 1	30,000	< 10	2.6	23,000	< 3	51,000	98	< 20	1,800	220,000	40	740
	03/14/06	< 100	< 1	**11**	NA	< 1	54,000	< 10	1.2	11,000	< 3	43,000	120	< 20	1,700	140,000	< 20	750
	12/01/05	< 100	< 1	**17**	NA	< 1	22,000	< 10	< 1	15,000	< 3	49,000	110	< 20	680	190,000	< 20	760
	08/31/05	< 100 UJ	< 1	**26**	**20 J**	< 1	20,000	< 10	< 1	19,000	< 3	40,000	110	< 20	1,200	170,000	< 20	710
	06/02/05	< 100	< 1	**30**	**35.7**	< 1	36,000	< 10	< 1	25,000	< 3	49,000	160	< 20	1,900 J	190,000	< 20	720
	03/29/05	< 100	< 1	**31**	3.23	< 1	61,000	< 10	2.1	10,000	< 3	42,000	54	< 20	2,300	110,000	< 20	560
	12/17/04	NA	NA	< 5	NA	< 1	NA	< 10	< 1 U	280	< 3	NA	NA	< 20	NA	NA	< 20	710
	08/11/04	NA	NA	**23**	NA	< 1	NA	< 10	< 1	18,000	< 3	NA	NA	< 20	NA	NA	< 20	640
	05/26/04	NA	NA	**20**	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	780
	03/19/04	NA	NA	**16**	NA	< 1	NA	< 10	1.1	NA	< 3	NA	NA	< 20	NA	NA	< 20	1,490 J
	07/18/00	NA	NA	**18**	NA	< 5	NA	< 10	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
	03/08/99	NA	NA	NA	NA	NA	NA	NA	NA	7,990	NA	NA	NA	NA	NA	NA	NA	754
	11/30/98	NA	NA	NA	NA	NA	NA	NA	NA	14,200	NA	NA	NA	NA	NA	NA	NA	807
	08/26/98	NA	NA	NA	NA	NA	NA	NA	NA	6,360	NA	NA	NA	NA	NA	NA	NA	800
	06/10/98	NA	NA	NA	NA	NA	NA	NA	NA	10,700	NA	NA	NA	NA	NA	NA	NA	766
	03/16/98	NA	NA	NA	NA	NA	NA	NA	NA	1,340	NA	NA	NA	NA	NA	NA	NA	695
	12/18/97	NA	NA	NA	NA	NA	NA	NA	NA	9,740	NA	NA	NA	NA	NA	NA	NA	783
	09/17/97	NA	NA	NA	NA	NA	NA	NA	NA	9,480	NA	NA	NA	NA	NA	NA	NA	819 B
1065PZ1B (intermediate)	05/24/06	< 100	< 1	< 5	NA	< 1	50,000	< 10	< 1	120	< 3	75,000	91	< 20	38,000	87,000	< 20	500
	03/07/06	< 100	< 1	< 5	NA	< 1	48,000	< 10	< 1	410	< 3	75,000	86	< 20	38,000	91,000	< 20	800
	11/29/05	< 100	< 1	< 5	NA	< 1	51,000	< 10 UJ	< 1	350	< 3	74,000	73	< 20	40,000	91,000	20	640
	08/30/05	< 100 UJ	< 1	< 5	NA	< 1	43,000	< 10	< 1	190	< 3	49,000	79	< 20	50,000	60,000	< 20	630
	05/24/05	< 100 UJ	< 1	< 5	NA	< 1	52,000	< 10	< 1	270	< 3	76,000	86	< 20	40,000	97,000	< 20	750
DUP0524052A	05/24/05	< 100 UJ	< 1	< 5	NA	< 1	53,000	< 10	< 1	240	< 3	78,000	87	< 20	41,000	99,000	< 20	760
	04/05/05	< 100	< 1	< 5	NA	< 1	48,000	< 10	< 1	430	< 3	66,000	80	< 20	38,000	86,000	< 20	690
	12/17/04	NA	NA	< 5	NA	< 1	NA	< 10	< 1 U	< 100 U	< 3	NA	NA	< 20	NA	NA	< 20	780
DUP1217042B	12/17/04	NA	NA	< 5	NA	< 1	NA	< 10	< 1 U	< 100 U	< 3	NA	NA	< 20	NA	NA	< 20	770
	08/13/04	NA	NA	< 5	NA	< 1	NA	< 10	< 1	310	< 3	NA	NA	< 20	NA	NA	< 20	730
	05/27/04	NA	NA	< 5	NA	< 1	NA	< 10	< 1	330	< 3	NA	NA	< 20	NA	NA	< 20	730
	03/10/04	NA	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	680
	03/08/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	645
	11/30/98	NA	NA	NA	NA	NA	NA	NA	NA	141	NA	NA	NA	NA	NA	NA	NA	628
	08/26/98	NA	NA	NA	NA	NA	NA	NA	NA	119	NA	NA	NA	NA	NA	NA	NA	603
	08/26/98	NA	NA	NA	NA	NA	NA	NA	NA	119	NA	NA	NA	NA	NA	NA	NA	603
	06/10/98	NA	NA	NA	NA	NA	NA	NA	NA	118	NA	NA	NA	NA	NA	NA	NA	655
	03/16/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	633
	12/18/97	NA	NA	NA	NA	NA	NA	NA	NA	105	NA	NA	NA	NA	NA	NA	NA	648
	09/17/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	568 B
1065PZ2A (shallow)	05/24/06	< 100	< 1	14	NA	< 1	28,000	< 10	< 1	16,000	< 3	53,000	1,700	< 20	970	76,000	< 20	420
	03/13/06	< 100	< 1	**17**	NA	< 1	28,000	< 10	< 1	19,000	< 3	52,000	1,900	< 20	930	70,000	< 20	440
	12/01/05	< 100	< 1	**14**	NA	< 1	22,000	< 10	2.1	15,000	< 3	44,000	1,400	< 20	750	57,000	21	440
	08/30/05	< 100 UJ	< 1	**19**	**16.8**	< 1	25,000	< 10	< 1	16,000	< 3	44,000	1,200	< 20	830	60,000	< 20	380
	05/24/05	< 100 UJ	< 1	**21**	**19.2**	< 1	31,000	< 10	< 1	17,000	< 3	53,000	1,000	< 20	990	67,000	< 20	450
	04/01/05	< 100	< 1	10	8.88	< 1	32,000 J	< 10	1.1	9,600	< 3	39,000	560 J	< 20	1,200	51,000	< 20	440
DUP0401052A	04/01/05	< 100	< 1	9	9.02	< 1	32,000 J	< 10	< 1	8,600	< 3	38,000	590 J	< 20	1,100	52,000	< 20	410
	12/15/04	NA	NA	6.8	NA	< 1	NA	< 10	< 1	3,300	< 3	NA	NA	< 20	NA	NA	88	410
	08/11/04	NA	NA	**19**	NA	< 1	NA	< 10	< 1	16,000	< 3	NA	NA	< 20	NA	NA	< 20	380

Table A-11-4
Results of Dissolved Metals Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**--**	**6**	**10**	**10**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
1065PZ2A (shallow)	05/25/04	NA	NA	**18**	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	940
	03/15/04	NA	NA	**16**	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	430
	07/18/00	NA	NA	**25**	NA	< 5	NA	< 10	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
	03/03/99	NA	NA	NA	NA	NA	NA	NA	NA	8,800	NA	NA	NA	NA	NA	NA	NA	514
	11/24/98	NA	NA	NA	NA	NA	NA	NA	NA	13,700	NA	NA	NA	NA	NA	NA	NA	533 B
	08/25/98	NA	NA	NA	NA	NA	NA	NA	NA	8,580	NA	NA	NA	NA	NA	NA	NA	3,720
	06/09/98	NA	NA	NA	NA	NA	NA	NA	NA	14,400	NA	NA	NA	NA	NA	NA	NA	572
	03/12/98	NA	NA	NA	NA	NA	NA	NA	NA	13,900	NA	NA	NA	NA	NA	NA	NA	472
	12/17/97	NA	NA	NA	NA	NA	NA	NA	NA	15,100	NA	NA	NA	NA	NA	NA	NA	555
	09/16/97	NA	NA	NA	NA	NA	NA	NA	NA	11,400	NA	NA	NA	NA	NA	NA	NA	598
1065PZ2B (intermediate)	03/07/06	< 100	< 1	< 5	NA	< 1	22,000	13	< 1	140	< 3	35,000	< 10	< 20	1,000	47,000	< 20	350
	04/05/05	< 100	< 1	< 5	NA	< 1	23,000	10	< 1	150	< 3	31,000	< 10	< 20	930	46,000	21	330
	03/10/04	NA	NA	< 5	NA	< 1	NA	11	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	340
	03/03/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	355
	11/24/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	365 B
	08/25/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	353
	06/09/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	372
	03/12/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	359
	12/17/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	405
	09/16/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	410
1065PZ3A (shallow)	03/13/06	< 100	< 1	< 5	NA	< 1	35,000	< 10	2.6	120	< 3	42,000	< 10	< 20	1,700	24,000	< 20	310
	04/05/05	< 100	< 1	< 5	NA	< 1	65,000	< 10	2	430	< 3	72,000	< 10	< 20	2,200	55,000	< 20	640
DUP0405052A	04/05/05	< 100	< 1	< 5	NA	< 1	63,000	< 10	2.1	410	< 3	70,000	< 10	< 20	2,200	52,000	< 20	580
1065PZ3ACL	04/05/05	< 100 U	< 2 U	< 2 U	NA	< 1 U	66,700	< 10 U	< 2 U	< 100 U	< 1 U	79,200	< 10 U	8.4	< 5,000 U	60,700	< 20 U	704
	03/15/04	NA	NA	< 5	NA	< 1	NA	23	1.3	NA	< 3	NA	NA	< 20	NA	NA	< 20	560
	07/18/00	NA	NA	< 5	NA	< 5	NA	13	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
	03/01/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	328
	11/23/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	365 B
	08/24/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	325
	06/08/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	341
	03/11/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	491
	12/16/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	410
1065PZ3B (intermediate)	03/09/06	< 100	< 1	< 5	NA	< 1	34,000	34	1	240	< 3	51,000	< 10	< 20	< 500 UJ	67,000	< 20	1,930
	04/06/05	< 100	< 1	< 5	NA	< 1	35,000	29	< 1	< 100	< 3	47,000	< 10	< 20	< 500	63,000	< 20	480
	03/10/04	NA	NA	< 5	NA	< 1	NA	33	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	490
	03/01/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	610
	11/23/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	608 B
	08/24/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	595
	06/08/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	612
	03/11/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	485
	12/16/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	553
	09/15/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	533
1065PZ4A (shallow)	05/24/06	< 100	< 1	7.9	NA	< 1	43000	< 10	1.7	21000	< 3	48000	1800	< 20	5400	150000	26	580
	03/09/06	< 100	< 1	8.9	NA	< 1	47,000	< 10	< 1	29,000	< 3	89,000	1,700	< 20	5,700 J	100,000	< 20	780
	11/29/05	< 100	< 1	**13**	NA	< 1	51,000	< 10 UJ	< 1	28,000	< 3	72,000	1,900	< 20	6,000	110,000	< 20	650
	08/30/05	< 100 UJ	< 1	**13**	**11.9**	< 1	45,000	< 10	< 1	22,000	< 3	58,000	1600	< 20	5,700	100,000	< 20	550

Table A-11-4
Results of Dissolved Metals Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**--**	**6**	**10**	**10**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
1065PZ4A (shallow)	06/02/05	< 100	< 1	9.6	9.33	< 1	44,000	< 10	< 1	23,000	< 3	58,000	1,600	< 20	5,200 J	99,000	< 20	590
	04/01/05	< 100	< 1	7.6	6.7	< 1	40,000 J	< 10	< 1	20,000	< 3	58,000	1,400 J	< 20	5,300	83,000	< 20	540
	03/15/04	NA	NA	**14**	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	670
	07/17/00	NA	NA	**14**	NA	< 5	NA	< 10	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
	03/08/99	NA	NA	NA	NA	NA	NA	NA	NA	12,800	NA	NA	NA	NA	NA	NA	NA	522
	12/01/98	NA	NA	NA	NA	NA	NA	NA	NA	23,700	NA	NA	NA	NA	NA	NA	NA	556
	08/27/98	NA	NA	NA	NA	NA	NA	NA	NA	16,500	NA	NA	NA	NA	NA	NA	NA	3,620
	06/11/98	NA	NA	NA	NA	NA	NA	NA	NA	14,300	NA	NA	NA	NA	NA	NA	NA	577
	03/17/98	NA	NA	NA	NA	NA	NA	NA	NA	14,700	NA	NA	NA	NA	NA	NA	NA	528
	12/22/97	NA	NA	NA	NA	NA	NA	NA	NA	25,600	NA	NA	NA	NA	NA	NA	NA	587
	09/18/97	NA	NA	NA	NA	NA	NA	NA	NA	22,800	NA	NA	NA	NA	NA	NA	NA	608 B
1065PZ4B (intermediate)	03/13/06	< 100	< 1	< 5	NA	< 1	25,000	25	1.8	< 100	< 3	57,000	< 10	< 20	880	59,000	< 20	240
	04/05/05	< 100	< 1	< 5	NA	< 1	24,000	25	< 1	150	< 3	51,000	< 10	< 20	800	55,000	< 20	470
	03/17/04	NA	NA	< 5	NA	< 1	NA	24 J	2.3	NA	< 3	NA	NA	< 20	NA	NA	< 20	480
	03/08/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	482
	12/01/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	468
	08/27/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	4,160
	06/11/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	458
	03/17/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	450
	12/22/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	451
	09/18/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	434 B
1065PZ5AR (shallow)	05/24/06	< 100	< 1	26	NA	< 1	74,000	< 10	< 1	19,000	< 3	77,000	2,100	< 20	6500	91,000	< 20	770
	03/07/06	< 100	< 1	**24**	NA	< 1	70,000	< 10	< 1	23,000	< 3	77,000	2,000	< 20	5,800	83,000	< 20	820
DUP0307062B	03/07/06	< 100	< 1	**21**	NA	< 1	69,000	< 10	< 1	19,000	< 3	81,000	2,000	< 20	6,100	86,000	< 20	950
1065PZ5ARCL	03/07/06	< 100 U	< 2 U	**15**	NA	< 1 U	80,000	< 10 U	< 2 U	13,000	< 1 U	86,000	2,100	5.5	6,000	99,000	< 20 U	1,170 J+
	11/29/05	< 100	< 1	**34 J**	NA	< 1	88,000 J	< 10	< 1	27,000 J	< 3	87,000	2,800 J	< 20	6,600	91,000 J	< 20	930
	08/30/05	NA	NA	NA	**42**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	760
	05/24/05	NA	NA	NA	**24.5**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	820
	04/11/05	< 100	< 1	**33**	**26.4**	< 1	90,000	< 10	< 1	32,000	< 3	89,000	2,600	< 20	6,900	95,000	< 20	930
	03/10/04	NA	NA	**22**	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	850
1065PZ5B (intermediate)	03/13/06	< 100	< 1	< 5	NA	< 1	31,000	21	1	110	< 3	44,000	< 10	< 20	500	60,000	23	430
	04/11/05	< 100	< 1	< 5	NA	< 1	27,000	17	< 1	< 100	< 3	36,000	< 10	< 20	530	58,000	< 20	800
	03/10/04	NA	NA	< 5	NA	< 1	NA	14	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	370
	03/03/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	368
	11/24/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	331 B
	08/25/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	320
	06/09/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	323
	03/12/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	300
	12/17/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	321
	09/16/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	348
1065PZ6A (shallow)	04/06/05	< 100	< 1	< 5	NA	< 1	40,000	37	< 1	< 100	< 3	53,000	< 10	< 20	510	81,000	< 20	630
	03/17/04	NA	NA	< 5	NA	< 1	NA	30 J	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	570
	07/17/00	NA	NA	< 5	NA	< 5	NA	43	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
	03/01/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	576
	11/23/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	555 B

Table A-11-4
Results of Dissolved Metals Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**--**	**6**	**10**	**10**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
1065PZ6A (shallow)	08/24/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	539
	06/08/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	554
	03/11/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	557
	12/16/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	556
	09/15/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	579
1065PZ6B (intermediate)	03/10/06	< 100	< 1	< 5	NA	< 1	38,000	40	< 1	200	< 3	54,000	< 10	< 20	700 J	68,000	< 20	660
	04/05/05	< 100	< 1	< 5	NA	< 1	43,000	38	< 1	260	< 3	51,000	< 10	< 20	530	59,000	< 20	490
	03/09/04	NA	NA	< 5	NA	< 1	NA	42	< 1	< 100	< 3	NA	NA	< 20	NA	NA	27	510
	03/01/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	465
	11/23/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	457 B
	08/24/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	491
	06/08/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	475
	03/11/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	484
	12/16/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	517
	09/15/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	511
1065PZ7A (shallow)	03/15/06	< 100	< 1	< 5	NA	1.1	44,000	19	< 1	< 100	< 3	54,000	< 10	< 20	850	63,000	< 20	370 J
	04/06/05	< 100	< 1	< 5	NA	< 1	45,000	< 10	1.1	< 100	< 3	81,000	< 10	< 20	< 500	38,000	< 20	530
	03/17/04	NA	NA	< 5	NA	< 1	NA	< 10 UJ	2.1	NA	< 3	NA	NA	< 20	NA	NA	< 20	540
	07/17/00	NA	NA	< 5	NA	< 5	NA	< 10	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
	03/08/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	391
	12/01/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	375
	08/26/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	374
	06/10/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	472
	03/16/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	373
	12/18/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	374
	09/17/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	358 B
1065PZ7B (intermediate)	03/15/06	< 100	< 1	< 5	NA	< 1	42,000	< 10	< 1	< 100	< 3	95,000	< 10	< 20	< 500	40,000	< 20	650 J
	04/06/05	< 100	< 1	< 5	NA	< 1	43,000	26	< 1	< 100	< 3	60,000	< 10	< 20	< 500	74,000	< 20	570
	03/17/04	NA	NA	< 5	NA	< 1	NA	31 J	3.3	120	< 3	NA	NA	< 20	NA	NA	< 20	540
	03/08/99	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	460
	12/01/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	434
	08/26/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	487
	06/10/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	575
	03/16/98	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	508
	12/18/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	505
	09/17/97	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	NA	NA	NA	NA	493 B
1065MW9A (shallow)	05/24/06	< 100	< 1	6.8	NA	< 1	61,000	< 10	< 1	5,900	< 3	93,000	540	< 20	17,000	68,000	< 20	770
DUP0524063B	05/24/06	< 100	< 1	6.9	NA	< 1	65,000	< 10	< 1	6,200	< 3	99,000	550	< 20	18,000	72,000	< 20	890
1065MW9ACL	05/24/06	< 100 U	< 2 U	7.5	NA	< 1 U	69,900	< 10 U	< 2 U	7,160 J+	< 1 U	102,000	563	2.6	17,800	76,100	< 20 U	694
	03/09/06	< 100	< 1	5.3	NA	< 1	54,000	< 10	< 1	5,400	< 3	90,000	570	< 20	13,000 J	69,000	< 20	870
DUP0309062B	03/09/06	< 100	< 1	6.3	NA	< 1	53,000	< 10	< 1	6,100	< 3	90,000	600	< 20	12,000 J	69,000	< 20	790
	11/30/05	< 100	< 1	< 5	NA	< 1	57,000	< 10	< 1	3,100	< 3	80,000	460	< 20	14,000	64,000	< 20	820
DUP1130052B	11/30/05	< 100	< 1	< 5	NA	< 1	61,000	< 10	< 1	3,000	< 3	87,000	500	< 20	14,000	70,000	< 20	760
1065MW9ACL	11/30/05	< 100 U	< 2 U	4.4	NA	< 1 U	70,000	< 10 U	< 2 U	3,400	< 1 U	96,000	580	< 2 U	17,000 N	74,000	< 20 U	805

Table A-11-4
Results of Dissolved Metals Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**--**	**6**	**10**	**10**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
1065MW9A (shallow)	08/30/05	< 100 UJ	< 1	7.4	8.5	< 1	53,000	< 10	< 1	5,400	< 3	75,000	470	< 20	15,000	59,000	< 20	730
DUP0830052B	08/30/05	< 100 UJ	< 1	8.2	6.9	< 1	56,000	< 10	< 1	5,700	< 3	79,000	520	< 20	14,000	64,000	< 20	730
1065MW9ACL	08/30/05	< 100 U	< 2 U	6.32	NA	< 1 U	63,900	< 10 U	< 2 U	4,840	< 1 U	93,300	564	< 2 U	16,100	72,800	< 20 U	779
	05/24/05	< 100 UJ	< 1	8.5	2.23	< 1	64,000	< 10	< 1	3,500	< 3	91,000	540	< 20	14,000	70,000	< 20	810
	04/06/05	< 100	< 1	10	8.23	< 1	58,000	< 10	< 1	6,100	< 3	85,000	500	< 20	15,000	66,000	< 20	770
DUP0406052A	04/06/05	< 100	< 1	7.1	4.36	< 1	62,000	< 10	< 1	3,600	< 3	91,000	450	< 20	17,000	70,000	< 20	670
	12/17/04	NA	NA	8.6	NA	< 1	NA	< 10	19	5,700	< 3	NA	NA	< 20	NA	NA	< 20	810
	08/11/04	NA	NA	7.7	NA	< 1	NA	< 10	< 1	5,400	< 3	NA	NA	< 20	NA	NA	< 20	810
	05/27/04	NA	NA	7.1	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	730
	03/10/04	NA	NA	7.9	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	720
DUP0310042A	03/10/04	NA	NA	6.9	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	700
	11/05/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3 J	NA	NA	NA	NA	NA	NA	NA
	10/07/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.4 J	NA	NA	NA	NA	NA	NA	NA
1065MW9B (intermediate)	05/25/06	< 100 UJ	< 1	< 5	NA	< 1	37,000	38	< 1	< 100	< 3	50,000	< 10	< 20	730	55,000	< 20	430
	03/09/06	< 100	< 1	< 5	NA	< 1	34,000	36	< 1	220	< 3	53,000	< 10	< 20	720 J	59,000	25	570
DUP0309062B	03/09/06	< 100	< 1	6.3	NA	< 1	53,000	< 10	< 1	6,100	< 3	90,000	600	< 20	12,000 J	69,000	< 20	790
	11/29/05	< 100	< 1	< 5	NA	< 1	35,000	31 J	< 1	120	< 3	48,000	< 10	< 20	690	52,000	< 20	110
	11/29/05	< 100	< 1	< 5	NA	< 1	35,000	31 J	< 1	120	< 3	48,000	< 10	< 20	690	52,000	< 20	110
	08/30/05	< 100 UJ	< 1	< 5	NA	< 1	32,000	30	< 1	160	< 3	41,000	< 10	< 20	740	47,000	85	470
	05/24/05	< 100 UJ	< 1	< 5	NA	< 1	38,000	34	< 1	< 100	< 3	48,000	< 10	< 20	740	54,000	< 20	490
	04/06/05	< 100	< 1	< 5	NA	< 1	36,000	32	< 1	< 100	< 3	46,000	< 10	< 20	670	51,000	< 20	480
	12/17/04	NA	NA	< 5	NA	< 1	NA	33	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	500
	08/13/04	NA	NA	< 5	NA	< 1	NA	31	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	500
DUP0813041A	08/13/04	NA	NA	< 5	NA	< 1	NA	32	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	460
	05/27/04	NA	NA	< 5	NA	< 1	NA	32	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	450
DUP0527042A	05/27/04	NA	NA	< 5	NA	< 1	NA	31	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	450
	03/10/04	NA	NA	< 5	NA	< 1	NA	29	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	480
	11/05/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3 J	NA	NA	NA	NA	NA	NA	NA
	10/07/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3	NA	NA	NA	NA	NA	NA	NA
1065MW10A (shallow)	03/16/06	< 100 UJ	< 1	< 5	NA	< 1	29,000	< 10	< 1	13,000	< 3	35,000	520	< 20	1,900	57,000 J	< 20	520 J
	04/11/05	< 100	< 1	< 5	NA	< 1	31,000	< 10	< 1	16,000	< 3	36,000	560	< 20	2,000	60,000	< 20	430
	03/10/04	NA	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	380
	11/05/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3 J	NA	NA	NA	NA	NA	NA	NA
	10/07/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3	NA	NA	NA	NA	NA	NA	NA
1065MW10B (intermediate)	03/09/06	< 100	< 1	< 5	NA	< 1	32,000	37	< 1	190	< 3	47,000	< 10	< 20	550 J	57,000	< 20	510
	04/11/05	< 100	< 1	< 5	NA	< 1	38,000	36	< 1	< 100	< 3	48,000	< 10	< 20	560	60,000	< 20	470
	03/10/04	NA	NA	< 5	NA	< 1	NA	26	1.2	NA	< 3	NA	NA	< 20	NA	NA	< 20	520
	11/05/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3 J	NA	NA	NA	NA	NA	NA	NA
	10/07/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3	NA	NA	NA	NA	NA	NA	NA
1065MW11A (shallow)	03/09/06	< 100	< 1	< 5	NA	< 1	16,000	12	< 1	120	< 3	18,000	< 10	< 20	< 500 UJ	31,000	< 20	860
	04/11/05	< 100	< 1	< 5	NA	< 1	36,000	32	< 1	< 100	< 3	45,000	< 10	< 20	750	66,000	< 20	500
	03/17/04	NA	NA	< 5	NA	< 1	NA	10 J	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	190
DUP0317042B	03/17/04	NA	NA	< 5	NA	< 1	NA	12 J	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	250
	11/05/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3 J	NA	NA	NA	NA	NA	NA	NA
	10/07/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3	NA	NA	NA	NA	NA	NA	NA

Table A-11-4
Results of Dissolved Metals Analyses
Building 1065/1027 Area
Presidio of San Francisco, California

Well Name (water-bearing zone)	Sample Date	Aluminum	Antimony	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6010B/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels[2]		**--**	**6**	**10**	**10**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
1065MW11B (intermediate)	03/07/06	< 100	< 1	< 5	NA	< 1	43,000	38	2.5	200	< 3	47,000	< 10	< 20	700	54,000	< 20	860
	04/11/05	< 100	< 1	< 5	NA	< 1	54,000	38	< 1	< 100	< 3	46,000	< 10	< 20	790	61,000	< 20	600
	03/09/04	NA	NA	< 5	NA	< 1	NA	40	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	510
	11/05/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3 J	NA	NA	NA	NA	NA	NA	NA
	10/07/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3	NA	NA	NA	NA	NA	NA	NA
1065MW101 (shallow)	05/24/06	< 100	< 1	26	NA	< 1	23,000	< 10	< 1	22,000	< 3	43,000	66	< 20	7,300	230,000	< 20	830
	03/13/06	< 100	< 1	**24**	NA	< 1	19,000	< 10	< 1	19,000	< 3	38,000	51	< 20	5,700	200,000	< 20	660
	11/29/05	< 100	< 1	**28**	NA	< 1	20,000	< 10 UJ	< 1	19,000	< 3	38,000	59	< 20	6,000	240,000	< 20	1,020
	08/31/05	< 100 UJ	< 1	**30**	**24.8 J**	< 1	19,000	< 10	< 1	18,000	< 3	35,000	79	< 20	7,200	240,000	< 20	960
	05/26/05	< 100	< 1	**26**	**22.9**	< 1	20,000	< 10	< 1	19,000	< 3	46,000 J	100	< 20	6,700	300,000 J	< 20	720
DUP0526051B	05/26/05	< 100	< 1	**26**	**21.3**	< 1	24,000	< 10	< 1	19,000	< 3	41,000 J	100	< 20	6,800	280,000 J	< 20	670
1065MW101CL	05/26/05	< 100 U	< 2 U	**24**	NA	< 10 U	20,500	< 10 U	< 2 U	17,700	< 1 U	40,000	86.8	11.9	7,510	272,000	< 20 U	965
	03/29/05	< 100	< 1	**23**	**17**	< 1	22,000	< 10	3.7	19,000	< 3	45,000	130	< 20	6,400	260,000	< 20	900
	12/17/04	NA	NA	**21**	NA	< 1	NA	< 10	< 1 U	13,000	< 3	NA	NA	< 20	NA	NA	< 20	NA
	08/13/04	NA	NA	**25**	NA	< 1	NA	< 10	1.1	4,000	< 3	NA	NA	25	NA	NA	< 20	NA
1065MW102 (shallow)	05/24/06	< 100	< 1	11	NA	< 1	25,000	< 10	< 1	9,500	< 3	41,000	150	33	3,600	200,000	< 20	560
	03/14/06	< 100	< 1	6.8	NA	< 1	14,000	< 10	< 1	1,300	< 3	14,000	180	< 20	4,800	120,000	< 20	450
	11/29/05	< 100	< 1	< 5	NA	< 1	18,000	< 10 UJ	7.8	< 100	< 3	5,900	14	< 20	2,300	23,000	< 20	170
	05/24/05	< 100 UJ	< 1	8.2	4.32	< 1	17,000	< 10	< 1	550	< 3	14,000	220	< 20	7,800	140,000	< 20	470
	03/29/05	< 100	< 1	6.5	5.8	< 1	22,000	< 10	6.9	370	< 3	15,000	220	< 20	6,800	130,000	< 20	340
	12/15/04	NA	NA	**11**	NA	< 1	NA	< 10	< 1	570	< 3	NA	NA	< 20	NA	NA	< 20	NA
	08/11/04	NA	NA	**16**	NA	< 1	NA	< 10	11	150	< 3	NA	NA	< 20	NA	NA	25	NA
1027MW01	07/17/00	NA	NA	< 5	NA	< 5	NA	11	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
1027MW03	07/17/00	NA	NA	< 5	NA	< 5	NA	12	< 10	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
1047MW101	03/07/06	< 100	< 1	< 5	NA	< 1	4,300	< 10	2.3	< 100	< 3	4,500	< 10	< 20	1,300	3,100	< 20	180
DUP0307062A	03/07/06	< 100	< 1	< 5	NA	< 1	4,400	< 10	2.5	< 100	< 3	4,700	< 10	< 20	1,300	3,200	< 20	130
1047MW101CL	03/07/06	< 100 U	< 2 U	< 2 U	NA	< 1 U	5,000	< 10 U	< 2 U	< 100 U	< 1 U	4,700	< 10 U	< 2 U	< 5,000 U	< 5,000 U	< 20 U	186 J+
	04/06/05	< 100	< 1	< 5	NA	< 1	5,700	< 10	1.7	< 100	< 3	5,200	< 10	< 20	1,200	< 500 U	< 20	110
	03/11/04	NA	NA	< 5	NA	< 1	NA	< 10	1	100	< 3	NA	NA	< 20	NA	NA	< 20	350
DUP0311042A	03/11/04	NA	NA	< 5	NA	< 1	NA	< 10	1.1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	310
1047MW101CL	03/11/04	NA	NA	< 5	NA	< 1	NA	< 10	< 10	< 500	< 3	NA	NA	< 10	NA	NA	< 20	150 HT-04,J

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - From Table 6 of the CAP (MACTEC, 2005b).
µg/L - micrograms per liter
mg/L - milligrams per liter
NA - Not analyzed
-- Cleanup level not established
Bold concentrations indicate cleanup level exceedances.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historic data qualifiers.

Table A-11-5
Results of Dissolved Gas and TOC Analyses
Building 1065 Area
Presidio of San Francisco, California

Location ID	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ1A (shallow)	03/14/06	NA	NA	NA	11
	12/01/05	< 0.005	< 0.005	14 J-	25
	08/31/05	< 0.005	< 0.005	13	24
	06/02/05	< 0.005	< 0.005	10	20
	03/29/05	< 0.005	< 0.005	4	11
	03/08/99	< 0.003	< 0.003	7	NA
	11/30/98	< 1.5	< 1.5	10	NA
	08/26/98	< 0.003	< 0.003	8.6	NA
	06/10/98	< 0.25	< 0.25	4.4	NA
	03/16/98	< 0.25 DU	< 0.25 DU	3.3	NA
	12/18/97	< 0.5 DU	< 0.5 DU	13.4	NA
	09/17/97	< 0.5 DU	< 0.5 DU	15.5 D	NA
1065PZ1B (intermediate)	03/08/99	< 0.003	< 0.003	< 0.003	NA
	11/30/98	< 0.006	< 0.006	0.079	NA
	08/26/98	< 0.003	< 0.003	0.0097	NA
	08/26/98	< 0.003	< 0.003	0.0097	NA
	06/10/98	< 0.0005	< 0.0005	0.0017	NA
	03/16/98	< 0.0025 DU	< 0.0025 DU	0.0284 D	NA
	12/18/97	< 0.025 DU	< 0.025 DU	0.196 D	NA
	09/17/97	< 0.0025 DU	< 0.0025 DU	0.0559 D	NA
1065PZ2A (shallow)	03/13/06	NA	NA	NA	8.2
	12/01/05	< 0.005	< 0.005	8.9 J-	10
	08/30/05	< 0.005	< 0.005	11	8.8
	05/24/05	< 0.005	< 0.005	12	12
	04/01/05	< 0.005	< 0.005	4.8	7.8
DUP0401052A	04/01/05	< 0.005	< 0.005	4.3	7.8
	03/03/99	< 0.003	< 0.003	7	NA
	11/24/98	< 0.6	< 0.6	6.6	NA
	08/25/98	< 1.5	< 1.5	12	NA
	06/09/98	< 0.6 DU	< 0.6 DU	9.000 D	NA
	03/12/98	< 0.25 DU	< 0.25 DU	4.290 D	NA
	12/17/97	< 2.5 DU	< 2.5 DU	18.1 D	NA
	09/16/97	< 0.5 DU	< 0.5 DU	8.4 D	NA
1065PZ2B (intermediate)	03/03/99	< 0.003	< 0.003	< 0.003	NA
	11/24/98	< 0.003	< 0.003	< 0.003	NA
	08/25/98	< 0.003	< 0.003	0.0041	NA
	06/09/98	< 0.0005	< 0.0005	0.0008	NA
	03/12/98	< 0.0005	< 0.0005	< 0.0005	NA
	12/17/97	< 0.0005	< 0.0005	0.0007	NA
	09/16/97	< 0.001 DU	< 0.001 DU	0.0214 D	NA
1065PZ3A (shallow)	03/01/99	< 0.003	< 0.003	< 0.003	NA
	11/23/98	< 0.003	< 0.003	< 0.003	NA
	08/24/98	< 0.003	< 0.003	< 0.003	NA
	06/08/98	< 0.0005	< 0.0005	0.0006	NA
	03/11/98	< 0.0005	< 0.0005	< 0.0005	NA
	12/16/97	< 0.0005	< 0.0005	< 0.0005	NA

Table A-11-5
Results of Dissolved Gas and TOC Analyses
Building 1065 Area
Presidio of San Francisco, California

Location ID	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ3B (intermediate)	03/01/99	< 0.003	< 0.003	< 0.003	NA
	11/23/98	< 0.003	< 0.003	< 0.003	NA
	08/24/98	< 0.003	< 0.003	< 0.003	NA
	06/08/98	< 0.0005	< 0.0005	< 0.0005	NA
	03/11/98	< 0.0005	< 0.0005	< 0.0005	NA
	12/16/97	< 0.0005	< 0.0005	< 0.0005	NA
	09/15/97	< 0.0005	< 0.0005	0.0063	NA
1065PZ4A (shallow)	03/09/06	NA	NA	NA	12
	11/29/05	< 0.005	< 0.005	16	8.5
	08/30/05	< 0.005	< 0.005	14	9.1
	06/02/05	< 0.005	< 0.005	12	9.3 J+
	04/01/05	< 0.005	< 0.005	11	6.2
	03/08/99	< 0.003	< 0.003	3.4	NA
	12/01/98	< 0.6	< 0.6	6.9	NA
	08/27/98	< 1.5	< 1.5	9.6	NA
	06/11/98	< 0.25 DU	< 0.25 DU	3.3 D	NA
	03/17/98	< 0.25 DU	< 0.25 DU	2.47 D	NA
	12/22/97	< 1.3 DU	< 1.3 DU	14 D	NA
	09/18/97	< 0.5 DU	< 0.5 DU	13.5 D	NA
1065PZ4B (intermediate)	03/08/99	< 0.3	< 0.3	0.057	NA
	12/01/98	< 0.015	< 0.015	0.14	NA
	08/27/98	< 0.003	< 0.003	0.036	NA
	06/11/98	< 0.0005	< 0.0005	0.001	NA
	03/17/98	< 0.0005	< 0.0005	< 0.0005	NA
	12/22/97	< 0.0025 DU	< 0.0025 DU	0.0721 D	NA
	09/18/97	< 0.005 D	< 0.005 D	0.133 D	NA
1065PZ5AR (shallow)	03/07/06	NA	NA	NA	42
DUP0307062B	03/07/06	NA	NA	NA	42
1065PZ5ARCL	03/07/06	NA	NA	NA	43.5
	11/29/05	< 0.005	< 0.005	12	49
	08/30/05	< 0.005	< 0.005	3.2	37
	05/24/05	< 0.005	< 0.005	6.9	57
	04/11/05	< 0.005	< 0.005	12	47
	03/12/98	NA	NA	2.710 D	NA
	09/16/97	NA	NA	0.0645 D	NA
1065PZ5B (intermediate)	03/03/99	< 0.003	< 0.003	< 0.003	NA
	11/24/98	< 0.003	< 0.003	< 0.003	NA
	08/25/98	< 0.003	< 0.003	< 0.003	NA
	06/09/98	< 0.0005	< 0.0005	< 0.0008	NA
	03/12/98	< 0.0005	< 0.0005	< 0.0005	NA
	12/17/97	< 0.0005	< 0.0005	0.0005	NA
	09/16/97	< 0.0005	< 0.0005	0.0148	NA

Table A-11-5
Results of Dissolved Gas and TOC Analyses
Building 1065 Area
Presidio of San Francisco, California

Location ID	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065PZ6A (shallow)	03/01/99	< 0.003	< 0.003	< 0.003	NA
	11/23/98	< 0.003	< 0.003	< 0.003	NA
	08/24/98	< 0.003	< 0.003	< 0.003	NA
	06/08/98	< 0.0005	< 0.0005	< 0.0005	NA
	03/11/98	< 0.0005	< 0.0005	< 0.0005	NA
	12/16/97	< 0.0005	< 0.0005	< 0.0005	NA
	09/15/97	< 0.0005	< 0.0005	0.0006	NA
	09/15/97	NA	NA	0.0006	NA
1065PZ6B (intermediate)	03/01/99	< 0.003	< 0.003	< 0.003	NA
	11/23/98	< 0.003	< 0.003	< 0.003	NA
	08/24/98	< 0.003	< 0.003	< 0.003	NA
	06/08/98	< 0.0005	< 0.0005	0.0009	NA
	03/11/98	< 0.0005	< 0.0005	< 0.0005	NA
	12/16/97	< 0.0005	< 0.0005	0.0008	NA
	09/15/97	< 0.0005	< 0.0005	0.0109	NA
1065PZ7A (shallow)	03/08/99	< 0.003	< 0.003	< 0.003	NA
	12/01/98	< 0.003	< 0.003	< 0.003	NA
	08/26/98	< 0.003	< 0.003	< 0.003	NA
	06/10/98	< 0.0005	< 0.0005	< 0.0005	NA
	03/16/98	< 0.0005	< 0.0005	< 0.0005	NA
	12/18/97	< 0.0005	< 0.0005	< 0.0005	NA
	09/17/97	< 0.0005	< 0.0005	< 0.0005	NA
1065PZ7B (intermediate)	03/08/99	< 0.003	< 0.003	< 0.003	NA
	12/01/98	< 0.003	< 0.003	< 0.003	NA
	08/26/98	< 0.003	< 0.003	< 0.003	NA
	06/10/98	< 0.0005	< 0.0005	0.0007	NA
	03/16/98	< 0.0005	< 0.0005	< 0.0005	NA
	12/18/97	< 0.0005	< 0.0005	0.0033	NA
	09/17/97	< 0.0005	< 0.0005	0.0166	NA
1065MW9A (shallow)	03/09/06	NA	NA	NA	2.1
DUP0309062B	03/09/06	NA	NA	NA	2.5
	11/30/05	< 0.005	< 0.005	8.4	2.9
DUP1130052B	11/30/05	< 0.005	< 0.005	7.1	2.8
1065MW9ACL	11/30/05	< 0.005 UU	< 0.015 UU	3.7	3
	08/30/05	< 0.005	< 0.005	5.6	3
DUP0830052B	08/30/05	< 0.005	< 0.005	5.1	2.8
1065MW9ACL	08/30/05	0.0013 J-	0.00072 J J-	3 J-	2.9
	05/24/05	< 0.005	< 0.005	4.7	3
	04/06/05	< 0.005	< 0.005	9.2	2.9
DUP0406052A	04/06/05	< 0.005	< 0.005	9.2	2.7
1065MW101 (shallow)	03/13/06	NA	NA	NA	28
	11/29/05	< 0.005	< 0.005	17	33
	08/31/05	< 0.005	< 0.005	12	41
	05/26/05	< 0.005	< 0.005	14	51
DUP0526051B	05/26/05	< 0.005	< 0.005	13	51
1065MW101CL	05/26/05	0.00077	< 0.0015 U	10	34.7
	03/29/05	< 0.005	< 0.005	15	34

Table A-11-5
Results of Dissolved Gas and TOC Analyses
Building 1065 Area
Presidio of San Francisco, California

Location ID	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		(mg/L)	(mg/L)	(mg/L)	(mg/L)
1065MW102 (shallow)	03/14/06	NA	NA	NA	4.8
	11/29/05	< 0.005	< 0.005	1.4	7.8
	09/01/05	< 0.005	< 0.005	4.3 J-	17
	05/24/05	< 0.005	< 0.005	2.9	12
	03/29/05	< 0.005	< 0.005	1.5	8.3

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Fourth Quarter 2004.
mg/L - milligrams per liter
TOC - Total Organic Carbon
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-11-6
Results of Arsenic Speciation Analyses
Building 1065 Area
Presidio of San Francisco, California

Location ID	Sample Date	Inorganic Arsenic (As)	Arsenite (As III)	Arsenate (As V) [2]	Percentage of As III [3]	Percentage of As V [3]
	Analytical Method[1]	**1632M**	**1632M**	**1632M**	--	--
		(µg/L)	(µg/L)	(µg/L)	%	%
Cleanup Levels[4]		**10**	--	--	--	--
1065PZ1A (shallow)	08/31/05	**20 J**	22.1 J	< 1 JU	>99	<1
	06/02/05	**35.7**	30	5.7	84	16
	03/29/05	3.23	2.55	0.678 B	79	21
1065PZ2A (shallow)	08/31/05	**16.8**	17.1	< 1 U	>99	<1
	05/24/05	**19.2**	15	4.2	78	22
	04/01/05	8.88	6.15	2.73	69	31
DUP0401052A	04/01/05	9.02	5.78	3.25	64	36
1065PZ4A (shallow)	08/31/05	**11.9**	12.9	< 1 U	>99	<1
	06/02/05	9.33	8.44	0.89	90	10
	04/01/05	6.7	6.4	0.306 B	95	5
1065PZ5AR (shallow)	08/31/05	**42**	41	< 10 U	>99	<1
	05/24/05	**24.5**	20	4.5	82	18
	04/11/05	**26.4**	19	7.39	72	28
1065MW9A (shallow)	08/30/05	8.5	8.3	< 1 U	>99	<1
DUP0830052B	08/30/05	6.9	7	< 0.5 U	>99	<1
	05/24/05	2.23	1.14	1.09	51	49
	04/06/05	8.23	5.67	2.56	69	31
DUP0406052A	04/06/05	4.36	4.1	0.259	94	6
1065MW101 (shallow)	08/31/05	**24.8 J**	26.2 J	< 1 JU	>99	<1
	05/26/05	**22.9**	18.1	4.8	79	21
DUP0526051B	05/26/05	**21.3**	17.8	3.5	84	16
	03/29/05	**17**	20.1	< 0.14 U	>99	<1
1065MW102 (shallow)	05/24/05	4.32	1.48	2.84	34	66
	03/29/05	5.8	4.47	1.34	77	23

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001.
2 - The concentration of As V was determined by the laboratory by subtracting the As III concentration from the inorganic As concentration.
3 - Relative percentages of As III and As V were calculated by dividing the As III and As V concentrations by the As concentration and multiplying by 100.
4 - From Table 6 of the Building 1065 CAP (MACTEC, 2005a)
µg/L - micrograms per liter
-- Cleanup level not established
Bold concentrations indicate cleanup level exceedances.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
Shallow Zone Monitoring Wells					
1065PZ1A	05/22/06	5.53	13.30	7.77	PZ
	03/06/06	5.33	13.30	7.97	PZ
	11/28/05	5.70	13.30	7.60	PZ
	08/29/05	5.76	13.30	7.54	PZ
	05/23/05	5.53	13.30	7.77	PZ
	03/14/05	5.50	13.30	7.80	PZ
	12/13/04	4.95	13.30	8.35	PZ
	08/09/04	5.88	13.30	7.42	PZ
	05/24/04	5.76	13.30	7.54	PZ
	03/08/04	5.58	13.30	7.72	PZ
	12/01/03	5.63	13.30	7.67	PZ
	08/11/03	5.82	13.30	7.48	PZ
	06/02/03	5.59	13.30	7.71	PZ
	03/10/03	5.56	13.30	7.74	PZ
	12/02/02	5.74	13.30	7.56	PZ
	11/05/02	5.80	13.30	7.50	PZ
	08/26/02	5.75	13.30	7.55	PZ
	05/28/02	5.56	13.30	7.74	PZ
	03/04/02	5.43	13.30	7.87	PZ
	11/26/01	5.64	13.30	7.66	PZ
	08/27/01	5.80	13.30	7.50	PZ
	05/08/01	5.55	13.30	7.75	PZ
1065PZ2A	05/22/06	3.28	12.82	9.54	PZ
	03/06/06	3.12	12.82	9.70	PZ
	11/28/05	3.40	12.82	9.42	PZ
	08/29/05	3.35	12.82	9.47	PZ
	05/23/05	3.24	12.82	9.58	PZ
	03/14/05	3.31	12.82	9.51	PZ
	12/13/04	3.32	12.82	9.50	PZ
	08/09/04	3.92	12.82	8.90	PZ
	05/24/04	3.80	12.82	9.02	PZ
	03/08/04	3.24	12.82	9.58	PZ
	12/01/03	3.60	12.82	9.22	PZ
	08/11/03	4.13	12.82	8.69	PZ
	06/02/03	3.77	12.82	9.05	PZ
	03/10/03	3.65	12.82	9.17	PZ
	12/02/02	3.71	12.82	9.11	PZ
	11/05/02	3.81	12.82	9.01	PZ
	08/26/02	3.66	12.82	9.16	PZ
	05/28/02	3.40	12.82	9.42	PZ
	03/04/02	3.37	12.82	9.45	PZ
	11/26/01	3.44	12.82	9.38	PZ
	08/27/01	3.68	12.82	9.14	PZ
	05/08/01	3.44	12.82	9.38	PZ

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1065PZ3A	05/22/06	9.08	23.96	14.88	PZ
	03/06/06	8.75	23.96	15.21	PZ
	11/28/05	9.57	23.96	14.39	PZ
	08/29/05	9.02	23.96	14.94	PZ
	05/23/05	8.65	23.96	15.31	PZ
	03/14/05	8.63	23.96	15.33	PZ
	12/13/04	9.40	23.96	14.56	PZ
	08/09/04	9.97	23.96	13.99	PZ
	05/24/04	9.97	23.96	13.99	PZ
	03/08/04	9.60	23.96	14.36	PZ
	12/01/03	Dry	23.96	11.96 [2]	PZ
	08/11/03	Dry	23.96	11.96 [2]	PZ
	06/02/03	Dry	23.96	11.96 [2]	PZ
	03/10/03	10.47	23.96	13.49	PZ
	12/02/02	9.88	23.96	14.08	PZ
	11/05/02	10.02	23.96	13.94	PZ
	08/26/02	9.45	23.96	14.51	PZ
	05/28/02	9.41	23.96	14.55	PZ
	03/04/02	9.11	23.96	14.85	PZ
	11/26/01	9.60	23.96	14.36	PZ
	08/27/01	9.76	23.96	14.20	PZ
	05/08/01	8.28	23.96	15.68	PZ
1065PZ4A	05/22/06	5.21	14.19	8.98	PZ
	03/06/06	4.90	14.19	9.29	PZ
	11/28/05	5.65	14.19	8.54	PZ
	08/29/05	5.02	14.19	9.17	PZ
	05/23/05	4.25	14.19	9.94	PZ
	03/14/05	4.88	14.19	9.31	PZ
	12/13/04	5.47	14.19	8.72	PZ
	08/09/04	5.51	14.19	8.68	PZ
	05/24/04	4.89	14.19	9.30	PZ
	03/08/04	5.17	14.19	9.02	PZ
	12/01/03	5.19	14.19	9.00	PZ
	08/11/03	5.65	14.19	8.54	PZ
	06/02/03	5.51	14.19	8.68	PZ
	03/10/03	5.26	14.19	8.93	PZ
	12/02/02	5.42	14.19	8.77	PZ
	11/05/02	5.37	14.19	8.82	PZ
	08/26/02	4.36	14.19	9.83	PZ
	05/28/02	4.39	14.19	9.80	PZ
	03/04/02	4.63	14.19	9.56	PZ
	11/26/01	4.95	14.19	9.24	PZ
	08/27/01	4.62	14.19	9.57	PZ
	05/08/01	4.06	14.19	10.13	PZ

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1065PZ5AR	05/22/06	3.15	17.38	14.23	PZ
	03/06/06	2.83	17.38	14.55	PZ
	11/28/05	3.40	17.38	13.98	PZ
	08/29/05	3.21	17.38	14.17	PZ
	05/23/05	3.01	17.38	14.37	PZ
	03/14/05	3.05	17.38	14.33	PZ
	12/13/04	3.40	17.38	13.98	PZ
	08/09/04	3.92	17.38	13.46	PZ
	05/24/04	3.88	17.38	13.50	PZ
	03/08/04	3.58	17.38	13.80	PZ
	12/01/03	5.10	17.38	12.28	PZ
	08/11/03	6.16	17.38	11.22	PZ
	06/02/03	5.22	17.38	12.16	PZ
	03/10/03	4.11	17.38	13.27	PZ
	11/05/02	4.30	17.38	13.08	PZ
1065PZ6A	05/22/06	NM	26.19	NM	PZ
	03/06/06	NM	26.19	NM	PZ
	11/28/05	10.50	26.19	15.69	PZ
	08/29/05	10.06	26.19	16.13	PZ
	05/23/05	9.95	26.19	16.24	PZ
	03/14/05	9.98	26.19	16.21	PZ
	12/13/04	10.90	26.19	15.29	PZ
	08/09/04	11.35	26.19	14.84	PZ
	05/24/04	11.40	26.19	14.79	PZ
	03/08/04	11.23	26.19	14.96	PZ
	12/01/03	13.36	26.19	12.83	PZ
	08/11/03	14.54	26.19	11.65	PZ
	06/02/03	14.36	26.19	11.83	PZ
	03/10/03	12.52	26.19	13.67	PZ
	12/02/02	11.37	26.19	14.82	PZ
	11/05/02	11.69	26.19	14.50	PZ
	08/26/02	10.88	26.19	15.31	PZ
	05/28/02	10.79	26.19	15.40	PZ
	03/04/02	10.42	26.19	15.77	PZ
	11/26/01	11.02	26.19	15.17	PZ
	08/27/01	11.23	26.19	14.96	PZ
	05/08/01	10.48	26.19	15.71	PZ
1065PZ7A	05/22/06	2.72	16.11	13.39	PZ
	03/06/06	2.80	16.11	13.31	PZ
	11/28/05	3.01	16.11	13.10	PZ
	08/29/05	2.80	16.11	13.31	PZ
	05/23/05	2.45	16.11	13.66	PZ
	03/14/05	2.48	16.11	13.63	PZ
	12/13/04	3.13	16.11	12.98	PZ
	08/09/04	3.40	16.11	12.71	PZ
	05/24/04	3.04	16.11	13.07	PZ
	03/08/04	3.50	16.11	12.61	PZ
	12/01/03	4.13	16.11	11.98	PZ
	08/11/03	4.82	16.11	11.29	PZ
	06/02/03	4.63	16.11	11.48	PZ

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1065PZ7A	03/10/03	3.56	16.11	12.55	PZ
	12/02/02	3.32	16.11	12.79	PZ
	11/05/02	3.35	16.11	12.76	PZ
	08/26/02	2.92	16.11	13.19	PZ
	05/28/02	3.05	16.11	13.06	PZ
	03/04/02	2.80	16.11	13.31	PZ
	11/26/01	3.11	16.11	13.00	PZ
	08/27/01	3.14	16.11	12.97	PZ
	05/08/01	2.79	16.11	13.32	PZ
1027MW01	05/22/06	8.45	23.10	14.65	MW
	03/06/06	8.16	23.10	14.94	MW
	11/28/05	9.04	23.10	14.06	MW
	08/29/05	8.20	23.10	14.90	MW
	05/23/05	7.82	23.10	15.28	MW
	03/14/05	7.89	23.10	15.21	MW
	12/13/04	8.56	23.10	14.54	MW
	08/09/04	9.18	23.10	13.92	MW
	05/24/04	9.09	23.10	14.01	MW
	03/08/04	8.73	23.10	14.37	MW
	12/01/03	10.37	23.10	12.73	MW
	08/11/03	11.19	23.10	11.91	MW
	06/02/03	10.85	23.10	12.25	MW
	03/10/03	9.44	23.10	13.66	MW
	12/02/02	9.08	23.10	14.02	MW
	08/26/02	8.62	23.10	14.48	MW
	05/28/02	8.06	23.10	15.04	MW
	03/04/02	8.45	23.10	14.65	MW
	11/26/01	8.80	23.10	14.30	MW
	08/27/01	8.96	23.10	14.14	MW
	05/08/01	8.19	23.10	14.91	MW
1027MW03	05/22/06	8.47	23.57	15.10	MW
	03/06/06	8.30	23.57	15.27	MW
	11/28/05	9.08	23.57	14.49	MW
	08/29/05	8.34	23.57	15.23	MW
	05/23/05	7.77	23.57	15.80	MW
	03/14/05	7.75	23.57	15.82	MW
	12/13/04	8.67	23.57	14.90	MW
	08/09/04	9.05	23.57	14.52	MW
	05/24/04	9.16	23.57	14.41	MW
	03/08/04	8.80	23.57	14.77	MW
	12/01/03	10.61	23.57	12.96	MW
	08/11/03	11.35	23.57	12.22	MW
	06/02/03	11.05	23.57	12.52	MW
	03/10/03	9.46	23.57	14.11	MW
	12/02/02	9.15	23.57	14.42	MW
	08/26/02	8.72	23.57	14.85	MW
	05/28/02	8.68	23.57	14.89	MW

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1027MW03	03/04/02	8.42	23.57	15.15	MW
	11/26/01	8.93	23.57	14.64	MW
	08/27/01	9.04	23.57	14.53	MW
	05/08/01	8.25	23.57	15.32	MW
1047MW101	05/22/06	4.72	19.92	15.20	MW
	03/06/06	3.82	19.92	16.10	MW
1065MW9A	05/22/06	3.64	13.31	9.67	MW
	03/06/06	2.98	13.31	10.33	MW
	11/28/05	3.68	13.31	9.63	MW
	08/29/05	3.78	13.31	9.53	MW
	05/23/05	3.86	13.31	9.45	MW
	03/14/05	3.93	13.31	9.38	MW
	12/13/04	3.90	13.31	9.41	MW
	08/09/04	4.51	13.31	8.80	MW
	05/24/04	4.10	13.31	9.21	MW
	03/08/04	3.94	13.31	9.37	MW
	12/01/03	4.10	13.31	9.21	MW
	08/11/03	4.4	13.31	8.91	MW
	06/02/03	3.90	13.31	9.41	MW
	03/10/03	3.75	13.31	9.56	MW
	11/05/02	4.32	13.31	8.99	MW
1065MW10A	05/22/06	3.47	17.33	13.86	MW
	03/06/06	2.89	17.33	14.44	MW
	11/28/05	4.30	17.33	13.03	MW
	08/29/05	3.92	17.33	13.41	MW
	05/23/05	3.50	17.33	13.83	MW
	03/14/05	3.52	17.33	13.81	MW
	12/13/04	5.75	17.33	11.58	MW
	08/09/04	6.05	17.33	11.28	MW
	05/24/04	6.05	17.33	11.28	MW
	03/08/04	4.75	17.33	12.58	MW
	12/01/03	6.08	17.33	11.25	MW
	08/11/03	6.7	17.33	10.63	MW
	06/02/03	6.34	17.33	10.99	MW
	03/10/03	5.30	17.33	12.03	MW
	11/05/02	5.35	17.33	11.98	MW
1065MW11A	05/22/06	8.44	23.61	15.17	MW
	03/06/06	8.04	23.61	15.57	MW
	11/28/05	8.61	23.61	15.00	MW
	08/29/05	8.35	23.61	15.26	MW
	05/23/05	8.15	23.61	15.46	MW
	03/14/05	8.26	23.61	15.35	MW
	12/13/04	8.98	23.61	14.63	MW
	08/09/04	9.45	23.61	14.16	MW
	05/24/04	9.45	23.61	14.16	MW
	03/08/04	9.24	23.61	14.37	MW
	12/01/03	11.07	23.61	12.54	MW
	08/11/03	12.3	23.61	11.31	MW

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1065MW11A	06/02/03	12.08	23.61	11.53	MW
	03/10/03	10.44	23.61	13.17	MW
	11/05/02	9.69	23.61	13.92	MW
1065MW101	05/22/06	5.69	13.06	7.37	MW
	03/06/06	5.55	13.06	7.51	MW
	11/28/05	5.60	13.06	7.46	MW
	08/29/05	5.67	13.06	7.39	MW
	05/23/05	5.23	13.06	7.83	MW
	03/14/05	5.33	13.06	7.73	MW
	12/13/04	4.20	13.06	8.86	MW
	08/09/04	5.75	13.06	7.31	MW
1065MW102	05/22/06	4.40	12.83	8.43	MW
	03/06/06	3.80	12.83	9.03	MW
	11/28/05	4.75	12.83	8.08	MW
	08/29/05	4.93	12.83	7.90	MW
	05/23/05	4.23	12.83	8.60	MW
	03/14/05	4.17	12.83	8.66	MW
	12/13/04	4.05	12.83	8.78	MW
	08/09/04	5.00	12.83	7.83	MW
Intermediate Zone Monitoring Wells					
1065PZ1B	05/22/06	0.72	13.31	12.59	PZ
	03/06/06	0.68	13.31	12.63	PZ
	11/28/05	1.18	13.31	12.13	PZ
	08/29/05	0.78	13.31	12.53	PZ
	05/23/05	0.47	13.31	12.84	PZ
	03/14/05	0.87	13.31	12.44	PZ
	12/13/04	1.22	13.31	12.09	PZ
	08/09/04	1.75	13.31	11.56	PZ
	05/24/04	1.83	13.31	11.48	PZ
	03/08/04	1.82	13.31	11.49	PZ
	12/01/03	2.83	13.31	10.48	PZ
	08/11/03	4.47	13.31	8.84	PZ
	06/02/03	3.54	13.31	9.77	PZ
	03/10/03	2.40	13.31	10.91	PZ
	12/02/02	1.55	13.31	11.76	PZ
	11/05/02	2.02	13.31	11.29	PZ
	08/26/02	1.22	13.31	12.09	PZ
	05/28/02	1.15	13.31	12.16	PZ
	03/04/02	0.90	13.31	12.41	PZ
	11/26/01	1.35	13.31	11.96	PZ
	08/27/01	1.49	13.31	11.82	PZ
	05/08/01	1.06	13.31	12.25	PZ
1065PZ2B	05/22/06	1.02	15.56	14.54	PZ
	03/06/06	1.05	15.56	14.51	PZ
	11/28/05	1.25	15.56	14.31	PZ
	08/29/05	1.09	15.56	14.47	PZ
	05/23/05	1.55	15.56	14.01	PZ
	03/14/05	1.67	15.56	13.89	PZ

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1065PZ2B	12/13/04	2.13	15.56	13.43	PZ
	08/09/04	2.35	15.56	13.21	PZ
	05/24/04	2.92	15.56	12.64	PZ
	03/08/04	2.32	15.56	13.24	PZ
	12/01/03	4.16	15.56	11.40	PZ
	08/11/03	5.25	15.56	10.31	PZ
	06/02/03	5.28	15.56	10.28	PZ
	03/10/03	3.78	15.56	11.78	PZ
	12/02/02	2.08	15.56	13.48	PZ
	11/05/02	2.62	15.56	12.94	PZ
	08/26/02	1.66	15.56	13.90	PZ
	05/28/02	1.42	15.56	14.14	PZ
	03/04/02	1.27	15.56	14.29	PZ
	11/26/01	1.72	15.56	13.84	PZ
	08/27/01	1.86	15.56	13.70	PZ
	05/08/01	1.35	15.56	14.21	PZ
1065PZ3B	05/22/06	8.75	23.65	14.90	PZ
	03/06/06	8.75	23.65	14.90	PZ
	11/28/05	9.20	23.65	14.45	PZ
	08/29/05	8.65	23.65	15.00	PZ
	05/23/05	8.45	23.65	15.20	PZ
	03/14/05	8.80	23.65	14.85	PZ
	12/13/04	9.30	23.65	14.35	PZ
	08/09/04	9.65	23.65	14.00	PZ
	05/24/04	9.66	23.65	13.99	PZ
	03/08/04	10.09	23.65	13.56	PZ
	12/01/03	11.45	23.65	12.20	PZ
	08/11/03	11.93	23.65	11.72	PZ
	06/02/03	11.72	23.65	11.93	PZ
	03/10/03	10.24	23.65	13.41	PZ
	12/02/02	9.64	23.65	14.01	PZ
	11/05/02	9.75	23.65	13.90	PZ
	08/26/02	9.16	23.65	14.49	PZ
	05/28/02	9.07	23.65	14.58	PZ
	03/04/02	8.85	23.65	14.80	PZ
	11/26/01	9.27	23.65	14.38	PZ
	08/27/01	9.46	23.65	14.19	PZ
	05/08/01	8.29	23.65	15.36	PZ
1065PZ4B	05/22/06	2.63	14.45	11.82	PZ
	03/06/06	2.11	14.45	12.34	PZ
	11/28/05	2.10	14.45	12.35	PZ
	08/29/05	1.81	14.45	12.64	PZ
	05/23/05	3.13	14.45	11.32	PZ
	03/14/05	2.35	14.45	12.10	PZ
	12/13/04	2.53	14.45	11.92	PZ
	08/09/04	2.67	14.45	11.78	PZ
	05/24/04	2.68	14.45	11.77	PZ
	03/08/04	3.93	14.45	10.52	PZ

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1065PZ4B	12/01/03	3.67	14.45	10.78	PZ
	08/11/03	4.10	14.45	10.35	PZ
	06/02/03	3.45	14.45	11.00	PZ
	03/10/03	2.68	14.45	11.77	PZ
	12/02/02	2.62	14.45	11.83	PZ
	11/05/02	4.32	14.45	10.13	PZ
	08/26/02	2.52	14.45	11.93	PZ
	05/28/02	2.30	14.45	12.15	PZ
	03/04/02	2.38	14.45	12.07	PZ
	11/26/01	2.30	14.45	12.15	PZ
	08/27/01	2.79	14.45	11.66	PZ
	05/08/01	2.33	14.45	12.12	PZ
1065PZ5B	05/22/06	2.02	17.34	15.32	PZ
	03/06/06	2.00	17.34	15.34	PZ
	11/28/05	2.43	17.34	14.91	PZ
	08/29/05	1.90	17.34	15.44	PZ
	05/23/05	1.85	17.34	15.49	PZ
	03/14/05	2.18	17.34	15.16	PZ
	12/13/04	2.91	17.34	14.43	PZ
	08/09/04	3.19	17.34	14.15	PZ
	05/24/04	3.38	17.34	13.96	PZ
	03/08/04	3.70	17.34	13.64	PZ
	12/01/03	5.00	17.34	12.34	PZ
	08/11/03	6.56	17.34	10.78	PZ
	06/02/03	6.50	17.34	10.84	PZ
	03/10/03	4.79	17.34	12.55	PZ
	12/02/02	3.18	17.34	14.16	PZ
	11/05/02	3.64	17.34	13.70	PZ
	08/26/02	2.92	17.34	14.42	PZ
	05/28/02	2.63	17.34	14.71	PZ
	03/04/02	2.37	17.34	14.97	PZ
	11/26/01	2.82	17.34	14.52	PZ
	08/27/01	2.93	17.34	14.41	PZ
	05/08/01	2.50	17.34	14.84	PZ
1065PZ6B	05/22/06	10.27	26.36	16.09	PZ
	03/06/06	NM	26.36	NM	PZ
	11/28/05	10.74	26.36	15.62	PZ
	08/29/05	10.23	26.36	16.13	PZ
	05/23/05	10.08	26.36	16.28	PZ
	03/14/05	10.14	26.36	16.22	PZ
	12/13/04	11.18	26.36	15.18	PZ
	08/09/04	11.55	26.36	14.81	PZ
	05/24/04	11.57	26.36	14.79	PZ
	03/08/04	12.23	26.36	14.13	PZ
	12/01/03	13.49	26.36	12.87	PZ
	08/11/03	14.73	26.36	11.63	PZ
	06/02/03	14.56	26.36	11.80	PZ
	03/10/03	12.73	26.36	13.63	PZ

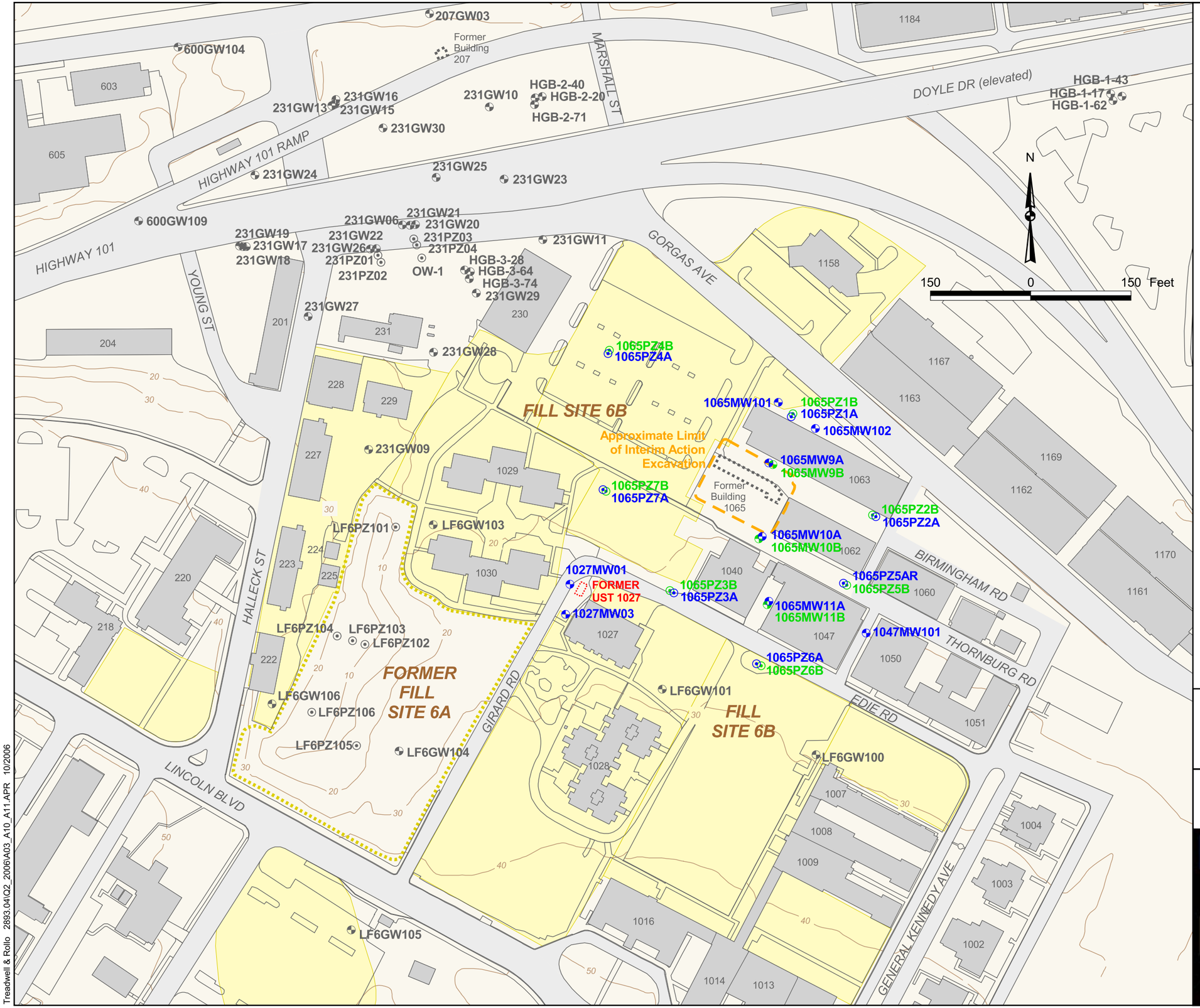
Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1065PZ6B	12/02/02	11.58	26.36	14.78	PZ
	11/05/02	11.85	26.36	14.51	PZ
	08/26/02	11.04	26.36	15.32	PZ
	05/28/02	10.94	26.36	15.42	PZ
	03/04/02	10.56	26.36	15.80	PZ
	11/26/01	11.09	26.36	15.27	PZ
	08/27/01	11.39	26.36	14.97	PZ
	05/08/01	10.62	26.36	15.74	PZ
1065PZ7B	05/22/06	2.24	15.73	13.49	PZ
	03/06/06	2.55	15.73	13.18	PZ
	11/28/05	2.79	15.73	12.94	PZ
	08/29/05	2.24	15.73	13.49	PZ
	05/23/05	1.89	15.73	13.84	PZ
	03/14/05	2.40	15.73	13.33	PZ
	12/13/04	2.71	15.73	13.02	PZ
	08/09/04	2.99	15.73	12.74	PZ
	05/24/04	2.92	15.73	12.81	PZ
	03/08/04	3.18	15.73	12.55	PZ
	12/01/03	4.10	15.73	11.63	PZ
	08/11/03	4.53	15.73	11.20	PZ
	06/02/03	4.14	15.73	11.59	PZ
	03/10/03	3.18	15.73	12.55	PZ
	12/02/02	2.91	15.73	12.82	PZ
	11/05/02	2.90	15.73	12.83	PZ
	08/26/02	2.44	15.73	13.29	PZ
	05/28/02	2.70	15.73	13.03	PZ
	03/04/02	2.33	15.73	13.40	PZ
	11/26/01	2.61	15.73	13.12	PZ
	08/27/01	2.67	15.73	13.06	PZ
	05/08/01	2.37	15.73	13.36	PZ
1065MW9B	05/22/06	0.00	13.39	13.39 [4]	MW
	03/06/06	0.00	13.39	13.39 [4]	MW
	11/28/05	0.00	13.39	13.39 [4]	MW
	08/29/05	0.00	13.39	13.39 [4]	MW
	05/23/05	0.00	13.39	13.39 [4]	MW
	03/14/05	0.00	13.39	13.39 [4]	MW
	12/13/04	0.00	13.39	13.39 [4]	MW
	08/09/04	0.38	13.39	13.01	MW
	05/24/04	0.33	13.39	13.06	MW
	03/08/04	0.21	13.39	13.18	MW
	12/01/03	1.60	13.39	11.79	MW
	08/11/03	2.92	13.39	10.47	MW
	06/02/03	2.77	13.39	10.62	MW
	03/10/03	1.33	13.39	12.06	MW
	11/05/02	0.58	13.39	12.81	MW

Table A-11-7
Groundwater Elevation Summary
Building 1065/1027 Area
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
1065MW10B	05/22/06	3.79	17.40	13.61	MW
	03/06/06	3.55	17.40	13.85	MW
	11/28/05	3.04	17.40	14.36	MW
	08/29/05	3.13	17.40	14.27	MW
	05/23/05	3.60	17.40	13.80	MW
	03/14/05	5.35	17.40	12.05	MW
	12/13/04	3.88	17.40	13.52	MW
	08/09/04	4.30	17.40	13.10	MW
	05/24/04	4.47	17.40	12.93	MW
	03/08/04	4.60	17.40	12.80	MW
	12/01/03	5.38	17.40	12.02	MW
	08/11/03	8.16	17.40	9.24	MW
	06/02/03	6.90	17.40	10.50	MW
	03/10/03	4.73	17.40	12.67	MW
	11/05/02	4.06	17.40	13.34	MW
1065MW11B	05/22/06	8.37	23.43	15.06	MW
	03/06/06	8.10	23.43	15.33	MW
	11/28/05	8.40	23.43	15.03	MW
	08/29/05	8.08	23.43	15.35	MW
	05/23/05	7.95	23.43	15.48	MW
	03/14/05	8.30	23.43	15.13	MW
	12/13/04	8.82	23.43	14.61	MW
	08/09/04	9.20	23.43	14.23	MW
	05/24/04	9.30	23.43	14.13	MW
	03/08/04	9.09	23.43	14.34	MW
	12/01/03	11.18	23.43	12.25	MW
	08/11/03	12.04	23.43	11.39	MW
	06/02/03	11.85	23.43	11.58	MW
	03/10/03	10.18	23.43	13.25	MW
	11/05/02	9.47	23.43	13.96	MW

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
2 - Value represents the bottom of casing elevation in feet PLLW.
3 - Building 1027 wells are contoured with shallow Building 1065 wells.
4 - Groundwater level was at or above the top of casing. Value listed is top of casing elevation.
NM - Not measured
MW - Monitoring well
PZ - Piezometer
feet PLLW - feet above Presidio lower low water vertical datum



LEGEND

- 1027MW01 Shallow Groundwater Monitoring Well
- 1065PZ1A Shallow Piezometer
- 1065PZ1B Intermediate Piezometer
- 231GW20 Adjacent Study Area Well
- 231PZ01 Adjacent Study Area Piezometer
- Building 1027 10,000 Gallon Fuel Oil Underground Storage Tank (UST) (Montgomery Watson, 1996c)
- Location of Building 1065 Interim Action Area Boundary provided by MACTEC. The Interim Action took place in November 2003.
- Topographic Contour (Contour Interval: 10 ft)
- Former Building Outline
- Former Fill Site 6A Excavation Boundary
- Approximate Lateral Extent of Fill Site 6B
- 201 Building and Number

Notes:
Location of limits of fill from Revised Main Installation Sites Feasibility Study (EKI, 2003).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datum: (topography) North American Vertical Datum, NAVD88

BUILDING 1065/1027 AREA SITE PLAN

Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315
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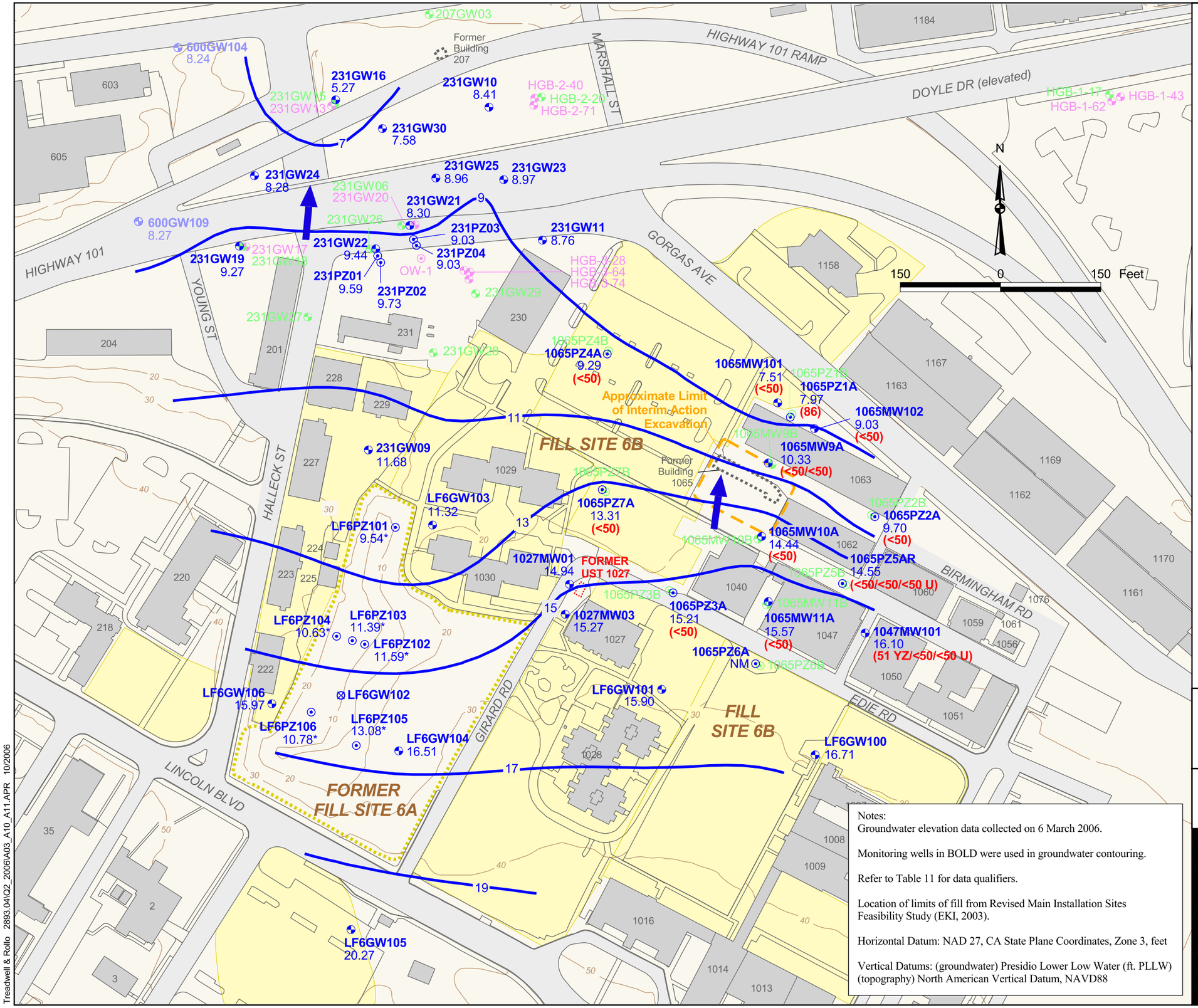
FIGURE A-11-1

Treadwell & Rollo 2893.04\Q2_2006\A03_A10_A11.APR 10/2006



LEGEND

1065MW101 7.51	Shallow Groundwater Monitoring Well March 2006 Groundwater Elevation
1065PZ5AR 14.55 (<50/<50/<50 U)	Shallow Piezometer March 2006 Groundwater Elevation March 2006 TPHg concentration in µg/L Second value represents a blind duplicate. Third value represents a quality control duplicate.
*	Shallow Piezometer not used for groundwater contouring.
NM	Not measured since covered in bark and dirt.
LF6GW102	Abandoned Shallow Groundwater Monitoring Well
600GW104 8.24	Adjacent Study Area Shallow Groundwater Well March 2006 Groundwater Elevation
231GW15	Intermediate Groundwater Monitoring Well
1065PZ1B	Intermediate Piezometer
231GW17	Deep Groundwater Monitoring Well
OW-1	Deep Piezometer
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval: 2 ft)
	Location of Building 1065 Interim Action Area Boundary provided by MACTEC. The Interim Action took place in November 2003.
	Topographic Contour (Contour Interval: 10 ft)
	Building 1027 10,000 Gallon Fuel Oil Underground Storage Tank (UST) (Montgomery Watson, 1996c)
	Former Building Outline
	Former Fill Site 6A Excavation Boundary
	Approximate Lateral Extent of Fill Site 6B
201	Building and Number

BUILDING 1065/1027, BUILDING 231/207, AND FILL SITE 6
6 MARCH 2006
SHALLOW GROUNDWATER ELEVATION MAP AND TPHg CONCENTRATIONS

Notes:
Groundwater elevation data collected on 6 March 2006.

Monitoring wells in BOLD were used in groundwater contouring.

Refer to Table 11 for data qualifiers.

Location of limits of fill from Revised Main Installation Sites Feasibility Study (EKI, 2003).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

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Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315
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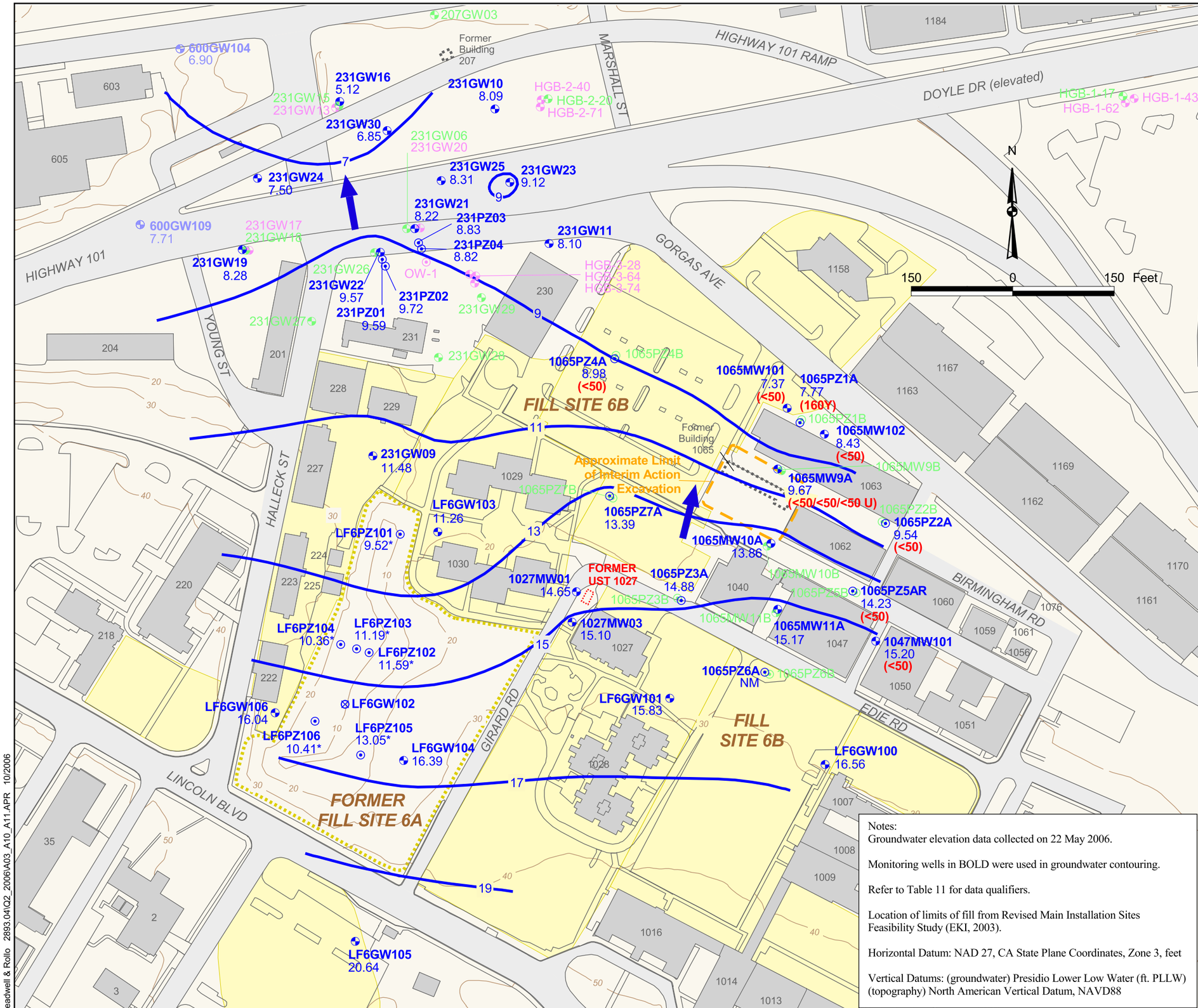
FIGURE A-11-2

Treadwell & Rollo 2893.04\Q2_2006\A03_A10_A11.APR 10/2006



LEGEND

1065MW9A 9.67 (<50/<50/<50 U)	Shallow Groundwater Monitoring Well May 2006 Groundwater Elevation May 2006 TPHg concentration in µg/L Second value represents a blind duplicate. Third value represents a quality control duplicate.
1065PZ1A 7.77	Shallow Piezometer May 2006 Groundwater Elevation
*	Shallow Piezometer not used for groundwater contouring.
NM	Not measured since covered in bark and dirt.
LF6GW102	Abandoned Shallow Groundwater Monitoring Well
600GW104 6.90	Adjacent Study Area Shallow Groundwater Well May 2006 Groundwater Elevation
231GW15	Intermediate Groundwater Monitoring Well
1065PZ1B	Intermediate Piezometer
231GW17	Deep Groundwater Monitoring Well
OW-1	Deep Piezometer
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval: 2 ft)
	Location of Building 1065 Interim Action Area Boundary provided by MACTEC. The Interim Action took place in November 2003.
	Topographic Contour (Contour Interval: 10 ft)
	Building 1027 10,000 Gallon Fuel Oil Underground Storage Tank (UST) (Montgomery Watson, 1996c)
	Former Building Outline
	Former Fill Site 6A Excavation Boundary
	Approximate Lateral Extent of Fill Site 6B
201	Building and Number

BUILDING 1065/1027, BUILDING 231/207, AND FILL SITE 6
22 MAY 2006
SHALLOW GROUNDWATER ELEVATION MAP AND TPHg CONCENTRATIONS

Notes:
Groundwater elevation data collected on 22 May 2006.

Monitoring wells in BOLD were used in groundwater contouring.

Refer to Table 11 for data qualifiers.

Location of limits of fill from Revised Main Installation Sites Feasibility Study (EKI, 2003).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

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Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315
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FIGURE A-11-3

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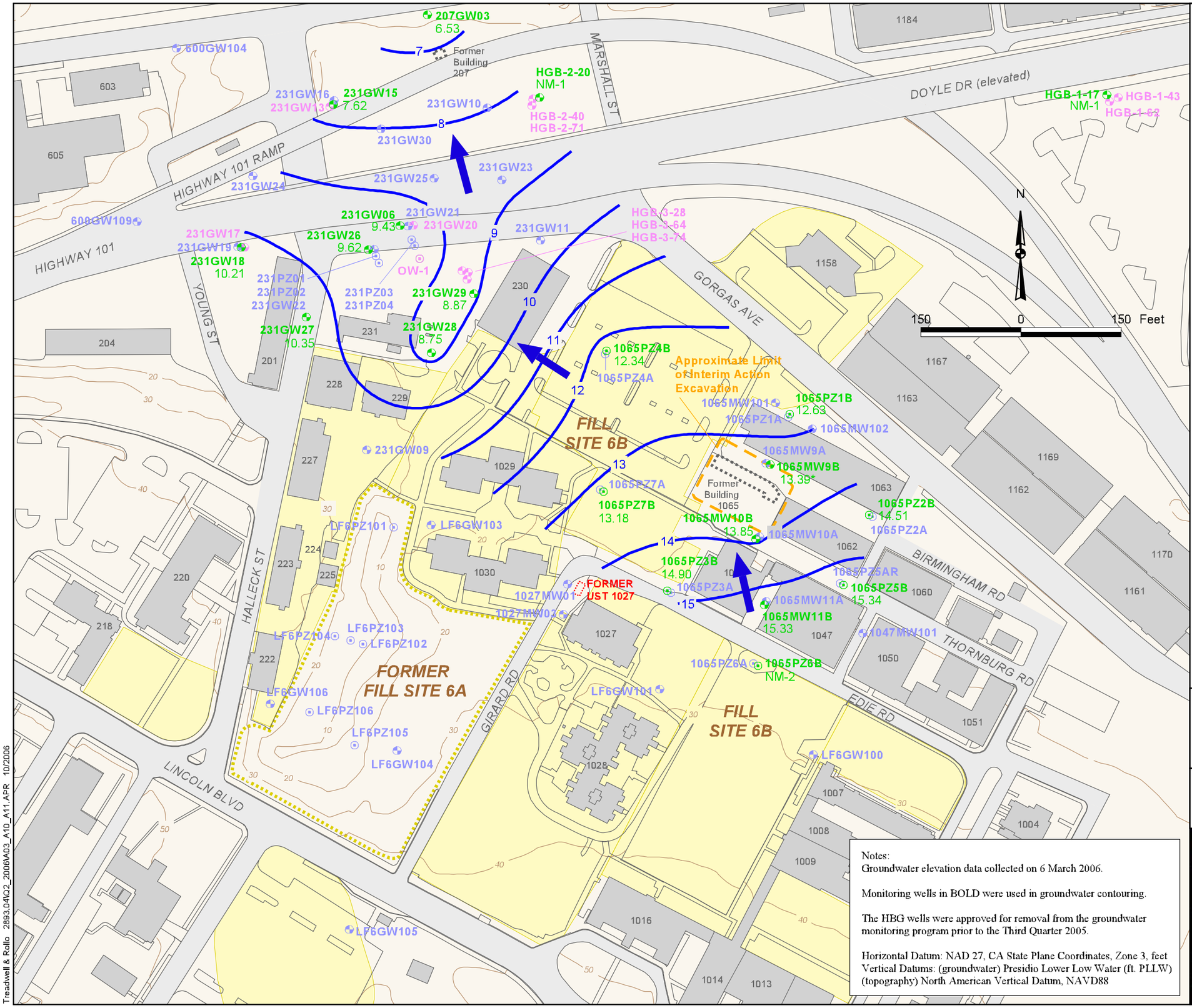

LEGEND

1065MW10B 13.85	Intermediate Groundwater Monitoring Well March 2006 Groundwater Elevation
1065PZ1B 12.63	Intermediate Piezometer March 2006 Groundwater Elevation
NM	Not Measured
NM-1	Well approved for removal from the groundwater monitoring program.
NM-2	Well covered with bark and dirt.
*	Well not used in contouring because groundwater within it was at or above the top of casing. Value posted is top of casing elevation.
231GW21	Shallow Groundwater Monitoring Well
1065PZ1A	Shallow Piezometer
231GW20	Deep Groundwater Monitoring Well
OW-1	Deep Piezometer
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval: 1 ft)
	Location of Building 1065 Interim Action Area Boundary provided by MACTEC. The Interim Action took place in November 2003.
	Topographic Contour (Contour Interval: 10 ft)
	Building 1027 10,000 Gallon Fuel Oil Underground Storage Tank (UST) (Montgomery Watson, 1996c)
	Former Building Outline
	Former Fill Site 6A Excavation Boundary
	Approximate Lateral Extent of Fill Site 6B
201	Building and Number

BUILDING 1065 AND BUILDING 231/207
6 MARCH 2006
INTERMEDIATE GROUNDWATER ELEVATION MAP

Treadwell&Rollo

Notes:
Groundwater elevation data collected on 6 March 2006.

Monitoring wells in BOLD were used in groundwater contouring.

The HBG wells were approved for removal from the groundwater monitoring program prior to the Third Quarter 2005.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

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Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315
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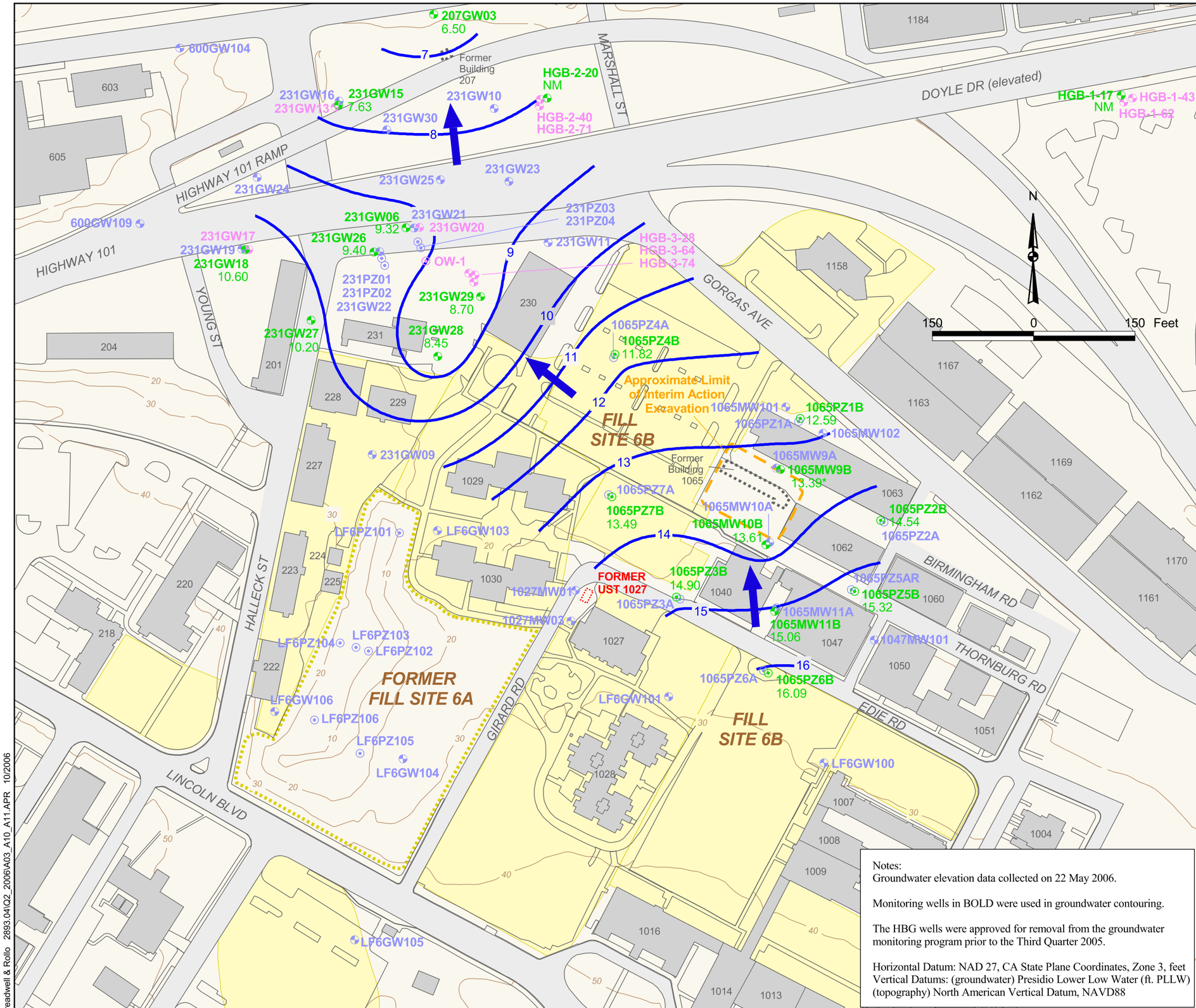
FIGURE A-11-4

Treadwell & Rollo 2893.04\Q2_2006\A03_A10_A11.APR 10/2006



LEGEND

1065MW10B 13.61	Intermediate Groundwater Monitoring Well May 2006 Groundwater Elevation
1065PZ1B 12.59	Intermediate Piezometer May 2006 Groundwater Elevation
NM	Not Measured. Well approved for removal from the groundwater monitoring program.
*	Well not used in contouring because groundwater within it was at or above the top of casing. Value posted is top of casing elevation.
231GW21	Shallow Groundwater Monitoring Well
1065PZ1A	Shallow Piezometer
231GW20	Deep Groundwater Monitoring Well
OW-1	Deep Piezometer
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval: 1 ft)
	Location of Building 1065 Interim Action Area Boundary provided by MACTEC. The Interim Action took place in November 2003.
	Topographic Contour (Contour Interval: 10 ft)
	Building 1027 10,000 Gallon Fuel Oil Underground Storage Tank (UST) (Montgomery Watson, 1996c)
	Former Building Outline
	Former Fill Site 6A Excavation Boundary
	Approximate Lateral Extent of Fill Site 6B
201	Building and Number

Notes:
Groundwater elevation data collected on 22 May 2006.

Monitoring wells in BOLD were used in groundwater contouring.

The HBG wells were approved for removal from the groundwater monitoring program prior to the Third Quarter 2005.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

BUILDING 1065 AND BUILDING 231/207
22 MAY 2006
INTERMEDIATE GROUNDWATER ELEVATION MAP

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Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315
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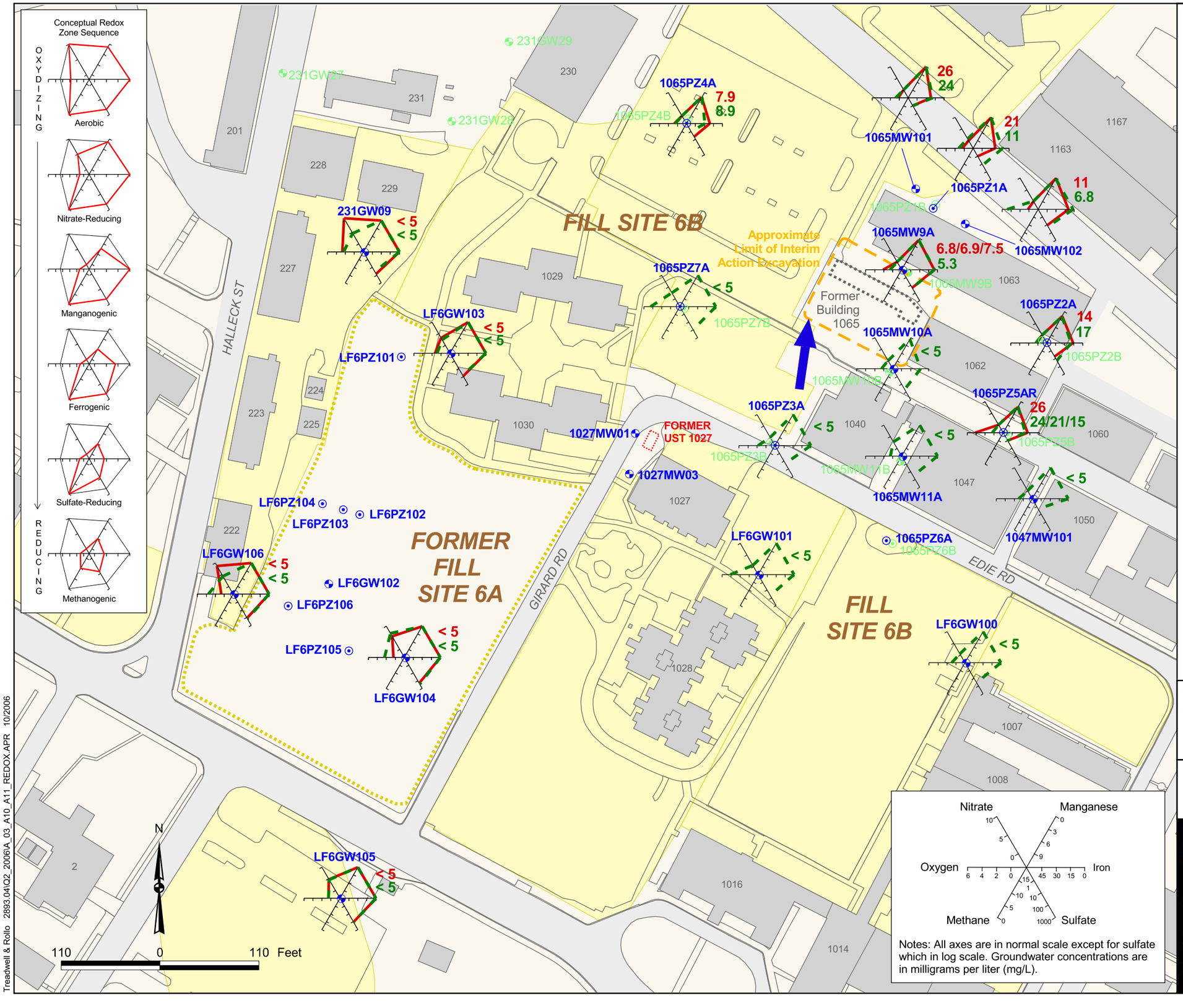
FIGURE A-11-5

Treadwell & Rollo 2893.04\Q2_2006\A03_A10_A11.APR 10/2006



LEGEND

- 1065MW101 Shallow Groundwater Monitoring Well
- 1065PZ1A Shallow Piezometer
- 231GW27 Intermediate Groundwater Monitoring Well
- 1065PZ1B Intermediate Piezometer
- Approximate Direction of Groundwater Flow
- Location of Building 1065 Interim Action Area Boundary provided by MACTEC. The Interim Action took place in November 2003.
- Building 1027 10,000 Gallon Fuel Oil Underground Storage Tank (UST) (Montgomery Watson, 1996c)
- Former Building Outline
- Former Fill Site 6A Excavation Boundary
- Approximate Lateral Extent of Fill Site 6B
- 201 Building and Number

- Q2-2006 Groundwater Concentrations
- 6.8/6.9/7.5 Q2-2006 Dissolved Arsenic Concentration (µg/L) (EPA Method SW6010/SW6020) Second value represents a blind duplicate. Third value represents a quality control duplicate.
- Q1-2006 Groundwater Concentrations
- < 5 Q1-2006 Dissolved Arsenic Concentration (µg/L) (EPA Method SW6010/SW6020)

Notes:
Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Notes: All axes are in normal scale except for sulfate which in log scale. Groundwater concentrations are in milligrams per liter (mg/L).

BUILDING 1065/1027 AND FILL SITE 6 REDOX DIAGRAMS FOR SHALLOW GROUNDWATER

Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315

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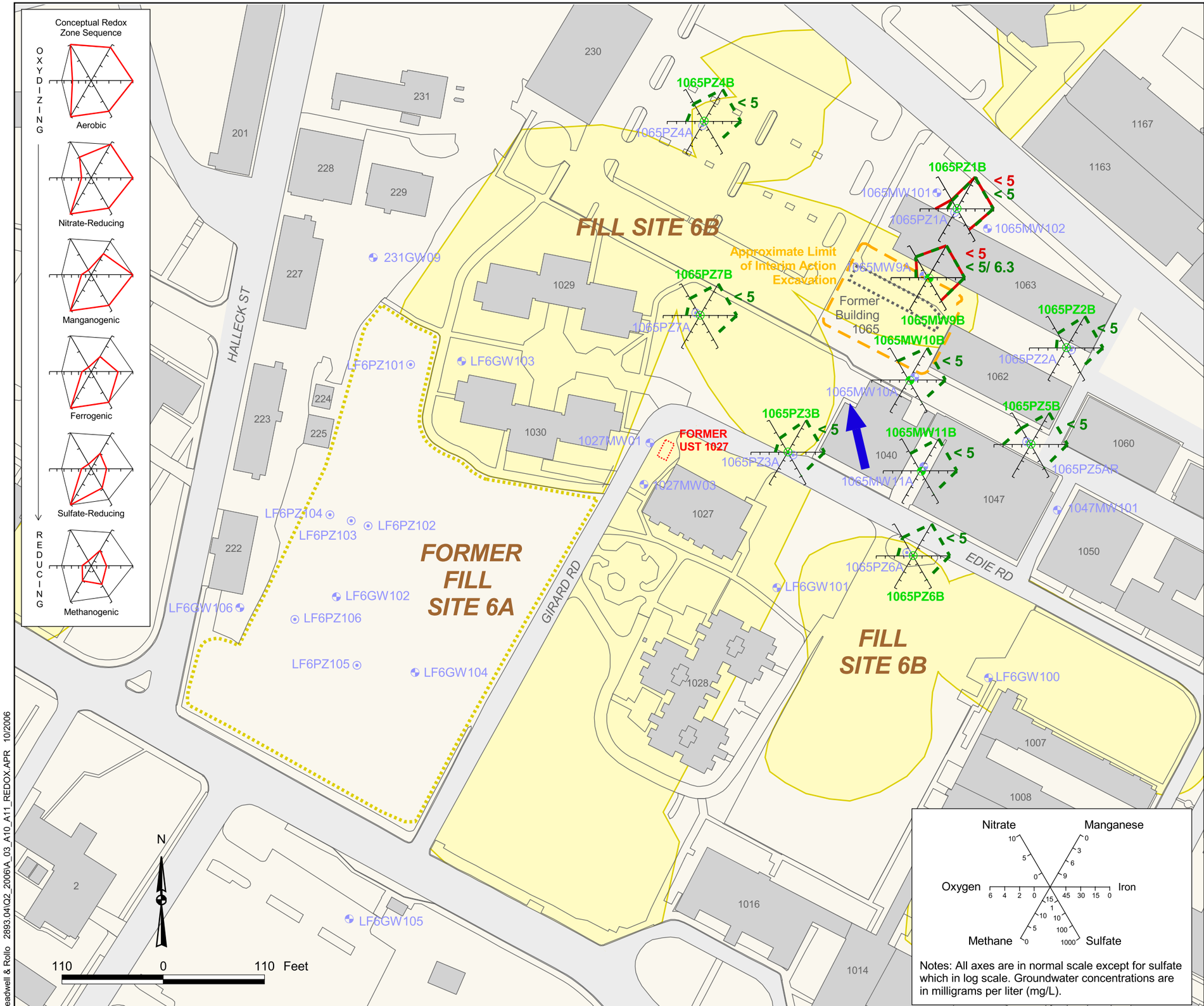
FIGURE A-11-6

Treadwell & Rollo 2893.04\Q2_2006\A_03_A10_A11_REDOX.APR 10/2006



LEGEND

- 1065MW10B Intermediate Groundwater Monitoring Well
- 1065PZ1B Intermediate Piezometer
- 231GW09 Shallow Groundwater Monitoring Well
- 1065PZ1A Shallow Piezometer
- Approximate Direction of Groundwater Flow
- Location of Building 1065 Interim Action Area Boundary provided by MACTEC. The Interim Action took place in November 2003.
- Building 1027 10,000 Gallon Fuel Oil Underground Storage Tank (UST) (Montgomery Watson, 1996c)
- Former Building Outline
- Former Fill Site 6A Excavation Boundary
- Approximate Lateral Extent of Fill Site 6B
- 201 Building and Number
- Q2-2006 Groundwater Concentrations
- < 5 Q2-2006 Dissolved Arsenic Concentration (µg/L) (EPA Method SW6010/SW6020)
- Q1-2006 Groundwater Concentrations
- < 5/ 6.3 Q1-2006 Dissolved Arsenic Concentration (µg/L) (EPA Method SW6010/SW6020)
  - Second value represents a blind duplicate.

Notes:
Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Notes: All axes are in normal scale except for sulfate which in log scale. Groundwater concentrations are in milligrams per liter (mg/L).

BUILDING 1065/1027 AND FILL SITE 6 REDOX DIAGRAMS FOR INTERMEDIATE GROUNDWATER

Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315

October 2006

FIGURE A-11-7

Treadwell & Rollo 2893.04\Q2_2006\A_03_A10_A11_REDOX.APR 10/2006

First Quarter 2006

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 9376-W101

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: B Proud | Sampled by: B Proud | Date: 3/13/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 14.69

Depth to Water (WL, ft. below TOC): 5.78

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 2" grundfos
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) 14'
[ ] Other

PURGE VOLUME CALCULATION

8.91 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 24.1 gals CALCULATED PURGE VOLUME

Total Purge Time: 9

Recharge Rate: >2.0 | Purge Rate: 2.0

24.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: HACH / Myron / YSI

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1402	/	8.5	7.3	15.1	–	896	–	4.22	
1405	/	16.5	7.1	15.2	–	881	–	3.41	
1408	/	24.5	7.2	15.1	–	874	–	2.95	
1415	/	–	–	17.7	0.09	–	–	–	
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: | Purge water storage/disposal: [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 3/13/06 1415

Purging Equipment: Pump - Type: 2" grundfos | Bailer - Type: | Other:

Sample Filtered: Yes / No | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
9376-W101	6 x 40mL	CAT	2037	
	1 x 1L	"	"	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 937G-W102

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: B Proud | Sampled by: B Proud | Date: 3/13/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 29.69

Depth to Water (WL, ft. below TOC): 5.68

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type: 2" grundfos
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft): 28'
[ ] Other

PURGE VOLUME CALCULATION

24.01 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 64.8 gals — CALCULATED PURGE VOLUME

Total Purge Time: 16 min

Recharge Rate: 5 gpm | Purge Rate: 5 gpm

65.0 gals — ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Hach/Myron/YSI

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1327 / 22.0	7.4	16.2	-	2094	-	3.88	
1332 / 44.0	7.2	16.4	-	2072	-	3.61	
1337 / 65.0	7.2	16.4	-	2058	-	2.69	
1340 /		18.3	2.87				
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments: Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/13/06 / 1340

Purging Equipment: Pump - Type: 2" grundfos | Bailer - Type: | Other:

Sample Filtered: Yes (No) | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937G-W102	6x40L 40mL	C+E	2037	
	1x 1 L	L		

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	937G-W102RB#101
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 937GW103

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: B Pruss | Sampled by: B Pruss | Date: 3/13/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 44.84

Depth to Water (WL, ft. below TOC): 5.83

Depth to free phase (FP, ft. below TOC): —

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 2" Grundfos
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) 42'
[ ] Other

PURGE VOLUME CALCULATION

39.61 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 105.3 gals CALCULATED PURGE VOLUME

Total Purge Time: 32

Recharge Rate: 5 gpm | Purge Rate: 5 gpm

106.0 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Hach/Myron/YSI

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1247	36.0	7.3	16.0	—	2610	—	4.54	
1255	71.0	7.3	16.4	—	2712	—	3.32	
1303	106	7.3	16.4	—	2726	—	3.16	
1310			19.4	3.42				

Comments: Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/13/06 / 1310

Purging Equipment: Pump - Type 2" Grundfos | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937GW103	6 x 40 mL	CTL	2037	
	1 x 1 L			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 937GW108

Project Number: 2897 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: B Pond | Sampled by: B Pond | Date: 3/13/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 14.85

Depth to Water (WL, ft. below TOC): 4.40

Depth to free phase (FP, ft. below TOC): —

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 2" Grundfos
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) 14'
[ ] Other

PURGE VOLUME CALCULATION

10.45 (Water Column Length) x .56 (Water Volume/ft) x 3 (No. Vols) = 17.6 gals CALCULATED PURGE VOLUME

Total Purge Time: 7 min

Recharge Rate: 4 gpm | Purge Rate: 4 gpm

18.0 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Horiba / Myron / YSI

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1112	6.0	7.1	12.5	←	825	~~57~~	7.3	
1114	12.0	~~6.0~~ 7.0	12.6	—	814	BC ~~62~~	6.5	
1115	18.0	7.1	12.6	—	818	~~[illegible]~~	4.8	
1120	—		15.9	0.09				

Comments: Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 3-13 / 1120

Purging Equipment: Pump - Type 2" grundfos | Bailer - Type | Other

Sample Filtered: Yes / No (circled) Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
937GW108	6 40mL	C+T	2037	
	1 L			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 1047MW101

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: M. Toll | Sampled by: M. Toll | Date: 3/7/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 14.60

Depth to Water (WL, ft. below TOC): 3.30

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[X] Near top Depth (ft): 4'-8' (drawdown)

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter, Hach, YSI, Orion

Time	Liters or Gallons	pH	Temp °C, °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1047	—	—	—	0.92	—	—	—	
1052	0.25	7.76	12.0	—	77.20	—	103	
1053	0.50	7.68	12.2	—	72.61	—	121	
1054	0.75	7.51	12.4	—	70.92	—	231	
1055	1.0	7.50	12.4	—	70.12	—	520	
1145	—	—	13.8	1.00	—	181.7	—	

Comments: Purge water storage/disposal: [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/7/06 / 1115

Purging Equipment: Pump - Type: Bailer - Type: Disp. Other:

Sample Filtered: (Yes) No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1047MW101	1 Poly, 1 HNO3 Poly	CAT	2097	
↓	9x 40ml	↓	↓	
↓	1 NaOH + ZnAc			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
1047MW101	DUP 030706 1A @ 1100
1047MW101	1047 MW WATER

QC# 2098

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 1065MW9A

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: M.Toll | Sampled by: M.Toll | Date: 3/9/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 13.45

Depth to Water (WL, ft. below TOC): 3.15

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[X] Near top Depth (ft): 5' (drawdown)

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate | gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter, Hach, YSI, Orion

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1400 / —	—	—	0.31	—	—	—	
1402 / 0.25	7.07	14.8	—	1325	—	9	
1404 / 0.5	6.87	15.4	—	1324	—	15	
1409 / 0.75	6.92	15.3	—	1323	—	12	
1410 / 1.00	6.90	15.5	—	1321	—	10	
/ —	—	15.5	0.59	—	121.3	—	
/							
/							
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/							
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/							
/							

Comments: Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/9/06 / 1420

Purging Equipment: Pump - Type: Bailer - Type: Disp. Other:

Sample Filtered: (Yes) No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065MW9A	1 Poly, 1 HNO_3	CTT		
	1 NaOH+ZnAc			
	3x VOA, 1 L			
	3x H_2SO_4			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
1065MW9A	DupP0309062B @ 1400

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 1065 MW 9B

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: M. Toll | Sampled by: M. Toll | Date: 3/9/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 31.90

Depth to Water (WL, ft. below TOC): 0.00

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 2" E.S.
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 2'-20'
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

3 (Water Column Length) x 28.7 (Water Volume/ft) x 3 (No. Vols) = 86.1 gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter, Hach, YSI, Orion

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1308	—	8.00	11.9	—	813	—	12	
1314	29.0	7.71	15.0	—	800	—	19	
1322	38.0	7.60	15.9	—	797	—	21	
1326	86.1	7.5~~8.00~~	10.4	—	795	—	15	
	—	—	15.5	0.61	—	200.1	—	

Comments: Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 3/9/06 1340

Purging Equipment: Pump - Type: Bailer - Type: Disp Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065MW9B	1 Poly, 1 HNO_3	CAT		
	3x VOA, 1 x 1L			
	1 NaOH + ZnAc			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 1065 MW10A

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeJong | Sampled by: John DeJong | Date: 3/16/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 13.60

Depth to Water (WL, ft. below TOC): 3.51

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type DISP

[X] Normal [X] Pump \ Type 2"

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

10.09 (Water Column Length) x .9 (Water Volume/ft) x 3 (No. Vols) = 27.3 gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate | gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Other YSI, HACH, Myron

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
	/		water drawdown is severe.						
	/		Switched to Mode						
1435	/	1gal	6.[illegible]	14.8	—	750	—	220	cloudy
1438	/	2gal	6.65	14.6	—	746	—	560	↓
1441	/	3gal	6.65	14.8	~~post: 0.81~~ post: 0.50	742	post: -120.3	980	↓
	/								
	/								
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	/								
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	/								
	/								
	/								

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/16/06 1450

Purging Equipment: Pump - Type | Bailer - Type DISP | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065 MW10A	3 HCl	CFT		
↓	1 NP poly	↓		
	1 HNO3			
	1 NaOH ZNC			
	1 NP Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 1065MW10B

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: M. Toll | Sampled by: M. Toll | Date: 3/9/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 27.92

Depth to Water (WL, ft. below TOC): 2.71

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 2" E.S.
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 4'-16'
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

25.2 (Water Column Length) x 22.7 (Water Volume/ft) x 3 (No. Vols) = 68.1 gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter, Hach, YSI, Orion

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1543	—	7.28	13.4	—	749	—	11	
1548	22.7	7.12	15.8	—	749	—	30	
1553	45.4	7.10	15.3	—	741	—	22	
1558	68.1	7.06	15.3	—	740	—	18	
	—	—	—		—		—	

Comments | Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/9/06 / 1600

Purging Equipment: Pump - Type | Bailer - Type: Disp. | Other

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065MW10B	1 Poly, 1 HNO3	CAT		
	3 VOA, 1 l			
	1 NaOH+ZnAc			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 1065MW11A

Project Number: 2693 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: M.Toll | Sampled by: M.Toll | Date: 3/9/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 14.30

Depth to Water (WL, ft. below TOC): 8.13

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type

[X] Normal [X] Pump \ Type 2" ES.

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 11'-13' (dependent)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

6.17 (Water Column Length) x 5.6 (Water Volume/ft) x 3 (No. Vols) = 16.8 gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate | ACTUAL PURGE VOLUME gals

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter, Hach, YSI, Orion

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1255	—	8.80	13.9	—	236	—	12	
1301	0.25	7.98	14.8	—	238	—	96	switched to Modified
1302	0.5	7.70	14.6	—	235	—	101	due to draw down
1303	0.75	7.69	14.5	—	233	—	126	@ 1 gpm
	—	—	19.3	0.52	—	112.1	—	

Comments | Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 3/9/06 / 1615

Purging Equipment: Pump - Type | Bailer - Type: Disp. | Other

Sample Filtered: (Yes) No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065MW11A	1 Poly, 1 HNO_3	CET		
	1 NaOH+ZnAc			
	3 VOA, 1 L			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 1065PZ11B

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: M. Dill | Sampled by: M. Dill | Date: 3/7/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 29.60

Depth to Water (WL, ft. below TOC): 7.93

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type ES-
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 9'-17'
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

21.77 (Water Column Length) x 19.6 (Water Volume/ft) x 3 (No. Vols) = 60 gals — CALCULATED PURGE VOLUME

60 gals — ACTUAL PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter, YSI, Hach, Orion

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1519	—	8.00	15.8	—	868	—	20	
1524	20	7.00	17.4	—	869	—	12	
1530	40	7.00	17.7	—	858	—	8	
1536	60	7.00	17.9	—	855	—	7	

Comments | Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/7/06 / 1600

Purging Equipment: Pump - Type | Bailer - Type: Disp | Other

Sample Filtered: (Yes) No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065PZ11B	1 poly 1 HNO_3	CAT	2092	
↓	3 40ml	↓	↓	
↓	1 NaOH + Acetate	↓	↓	
↓	1 O	↓	↓	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 1065MW101

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeJong | Sampled by: John DeJong | Date: 3/13/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 9.09

Depth to Water (WL, ft. below TOC): 5.61

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type: Peri
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft): 7.5
[ ] Near Bottom Depth (ft):
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 18 min

Recharge Rate: | Purge Rate: ~150ml/min

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556, HACH

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND µS/cm	ORP (mV)	Turbidity (NTU)	Comments	DTW
1533	Begin		Purging						
1536	450ml	6.88	14.49	0.48	1309	-83.1	237	cloudy	5.73
1539	900ml	6.89	14.56	0.42	1278	-88.2	187		5.89
1542	1350ml	6.89	14.56	0.41	1264	-95.0	89		6.00
1545	1800ml	6.89	14.49	0.81	1252	-92.9	90		6.19
1548	2250ml	6.88	14.46	0.82	1255	-95.5	87		6.35

Comments: | Purge water storage/disposal: [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/13/06 1550

Purging Equipment: Pump - Type: Peri | Bailer - Type: | Other:

Sample Filtered: Yes/No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065MW101	1L Poly	CET	8035	
	2 H2SO4 voas			
	6 HCl voas			
	Zinc Acetate			
	1 HNO3			
	1L Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 1065MW102

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeJong | Sampled by: John DeJong | Date: 3/14/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 6.97

Depth to Water (WL, ft. below TOC): 3.55

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Normal [ ] Modified (max 5 gpm)

[ ] Bailer \ Type [X] Pump \ Type Peri [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft) [X] Near Bottom Depth (ft) 6.0' [ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate ~150ml/min

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type VSI, HACH

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments	DTW
0945	Started purge								
0948	450	7.27	13.17	1.76	1070	75.6	19	Clear	3.91
0951	900	7.06	13.20	3.03	615	93.6	12		4.02
0954	1350	6.98	13.04	4.29	486	72.8	13		4.21
0957	1800	6.93	12.90	5.01	410	73.5	10		4.27
1000	2250	6.88	12.82	5.45	339	74.7	9		4.60
1003	2700	6.86	12.60	5.75	258	68.7	8		4.70
1006	3150	6.86	12.55	5.81	248	64.5	9		4.80
1009	3600	6.85	12.38	6.06	235	66.0	8		4.61
1012	4050	6.82	12.33	6.14	219	66.6	7		4.83
1015	4500	6.79	11.90	5.75	211	69.1	6		4.91
1018	4950	6.75	11.89	5.21	209	81.3	6		4.99
1021	5400	6.74	11.61	4.91	210	88.1	7		5.18
1024	5850	6.73	11.70	4.89	211	90.3	7		5.33
1027	6300	6.72	11.69	4.87	210	91.1	7		5.55

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Back of truck

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/14/06 1030

Purging Equipment: Pump Type Peri | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065MW102	1 NO3/NO2	CFT	2041	
	2 H2SO4			
	1 Na2S2O3/NAC			
	1 NPL poly			
	1 HNO3			
	6 HCl VOAs			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 1065PZ1A

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeJong | Sampled by: John DeJong | Date: 3/14/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 8.95

Depth to Water (WL, ft. below TOC): 5.19

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Normal [ ] Modified (max 5 gpm) [ ] Bailer \ Type [X] Pump \ Type Peri [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft) [X] Near Bottom Depth (ft) 7.5' [ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate ~150ml/min

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI, HACH

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	DTW	Comments
1106	Begin purge								
1109	450ml	6.80	12.83	1.11	1068	54.1	304	5.41	orange
1112	900ml	6.88	12.74	1.23	1084	33.1	245	5.55	
1115	1350ml	6.93	12.71	0.90	1064	10.0	88	5.71	clearing
1118	1800ml	6.93	12.67	0.99	1050	6.7	71	5.83	
1121	2250ml	6.91	12.66	1.27	1036	-0.5	53	5.97	
1124	2700ml	6.90	12.69	1.29	1035	1.2	50	6.08	
1127	3150ml	6.88	12.67	1.23	1034	3.5	47	6.20	

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/14/06 1135

Purging Equipment: Pump Type Peri | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065PZ1A	2 H_2SO_4 VOCs	CFT	204	
	1 NP poly			
	1 NP Amber			
	1 NaOH 2mL			
	6 HCl VOCs			
	1 HNO_3			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 1065 PZ 1B

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: M. Doll | Sampled by: M. Doll | Date: 3/7/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 21.83

Depth to Water (WL, ft. below TOC): 0.62

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 2" E.S.
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 2' - 10' - 11'
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

21.2 (Water Column Length) x 19.0 (Water Volume/ft) x 3 = 57 (No. Vols) = 58 gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate

60 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Hydrometer, Hach, YSI, Orion

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1219	—	7.72	15.6	—	1272	—	40	
1220	19	7.73	16.9	—	1345	—	22	
1224	38	7.70	17.0	—	1351	—	12	
1228	57	7.70	17.2	—	1355	—	10	
	—	—	16.9	0.05	—	-0.2	—	

Comments | Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/7/06 1245

Purging Equipment: Pump - Type | Bailer - Type: Disp. | Other

Sample Filtered: (Yes) No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065 PZ 1B	1 Poly, 1 HNO3	CAT	2097	
↓	1 NaOH-ZnAc	↓	↓	
	6x 40ml			
↓	1x 1L	↓	↓	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 1065 PZ2A

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeJong | Sampled by: John DeJong | Date: 3/13/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 7.81

Depth to Water (WL, ft. below TOC): 3.12

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Normal [ ] Modified (max 5 gpm) [ ] Bailer \ Type [X] Pump \ Type Peri [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft) [X] Near Bottom Depth (ft) 5.0 [ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate ~200ml/min | gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556, HACH

Time	/ Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments	DTW
1343	/ Begin	purging							
1346	/ 600ml	6.89	15.53	0.66	852	-46.6	10	clear	3.28
1349	/ 1200ml	6.95	15.85	0.62	855	-85.1	8		3.41
1352	/ 1800ml	6.99	15.84	0.47	860	-91.6	7		3.52
1355	/ 2400ml	7.02	15.87	0.39	862	-95.5	7		3.60
1358	/ 3200ml	7.01	15.80	0.40	865	-101.1	6		3.71
1401	/ 3000ml	7.02	15.75	0.43	869	-104.1	6		3.83
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/13/06 / 1405

Purging Equipment: Pump - Type Peri | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065PZ2A	3 Hcl VOCs	CH	2035	
	1 NP Amber			
	1 NP LPoly			
	1 HNO3			
	1 NaOH ZnAc			
	2 H2SO4 VOCs			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 ~~PLATE~~ LFD
Well No.: 1065PZ2B
Project Number: 2393
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: M. Poll
Sampled by: M. Poll
Date: 3/7/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 21.33
Depth to Water (WL, ft. below TOC): 0.83
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged
[X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 2" E.S.
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 2'-11'
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

~~19.5~~ 20.5 x 19.5 x 3 = 55.5
Water Column Length x Water Volume/ft x No. Vols = 56 gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate
Purge Rate

60 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter, Hach, YSI, Orion

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1258	—	~~7.35~~ 7.35	16.9	—	591	—	10	
1304	20.5	7.35	17.3	—	590	—	8	
1310	41	7.29	17.8	—	512	—	4	
1316	55.5	7.25	17.9	—	500	—	2	
	—	—	—	0.12	—	-0.9	—	

Comments
Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/7/06 1335

Purging Equipment: Pump - Type: Bailer - Type: 2" SP Other:

Sample Filtered: Yes No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065PZ2B	1 Poly 1 HNO3	CAT	2097	
	1 NaOH + ZnAc			
	3 x 40 ml			
	1 x L			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: MTBE 1065PZ MP
Well No.: 1065PZ3A
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: John DeJong
Sampled by: John DeJong
Date: 3/13/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 10.72

Depth to Water (WL, ft. below TOC): 8.65

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type: peri
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft): 9.5'
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time: 9 min

Recharge Rate: Purge Rate: ~150 ml/min

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556, HACH

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments	DTW
1227	450ml	6.85	15.00	1.63	672	216.6	15	clear	8.71
1230	900ml	6.86	14.94	1.77	638	219.9	12	↓	8.68
1233	1350ml	6.87	14.93	1.77	622	223.1	12	↓	8.81

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other: Barrel or Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/13/06, 1235

Purging Equipment: Pump - Type: peri Bailer - Type: Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065PZ3A	3 HCl VOCs	CTT	2085	
	1 NP Amber		↓	
	1 L poly			
	1 HNO3			
	1 NaOH ZnAc			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 1065 PZ 3B

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: MJBll | Sampled by: MJBll | Date: 3/9/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 24.80

Depth to Water (WL, ft. below TOC): 8.90

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 2" E.S.
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 11'-14'
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

15.9 (Water Column Length) x 14.3 (Water Volume/ft) x 3 (No. Vols) = 42.9 gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter, Hach, YSI, Orion

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1158	—	8.00	18.8	—	1260	—	10	
1204	15.9	7.23	17.0	—	860	—	6	
1210	31.8	7.23	16.8	—	842	—	4	
1216	42.9	7.21	16.9	—	840	—	7	
	—	—	16.9	0.72	—	286.2	—	

Comments | Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/9/06 1225

Purging Equipment: Pump - Type | Bailer - Type: Disp. | Other

Sample Filtered: (Yes) No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065 PZ3B	1 Poly 1 HNO_3	CAT		
	1 NaOH+ZnAc			
	3 x VOA			
	1 a			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 1065 P24A

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: D. Cornish | Sampled by: D. Cornish | Date: 3/9/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC):

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type: Peristaltic
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate: 200 ml/min | 3600 mL gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 Flowcell

Time	/ Liters or ml Gallons	pH	Temp (C) °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments	(ft.) DTW:
1600	/	5.36	16.17	0.55	1.20	-119.4	6	clear	4.60
1603	/ 600	5.23	16.28	0.52	1.120	-119.9	6	"	4.61
1606	/ 1200	5.21	16.39	0.63	1.110	-119.4	5	"	4.78
1609	/ 1800	5.21	16.43	0.69	1.104	-115.0	5	"	5.19
1612	/ 2400	5.20	16.49	0.71	1.105	-113.9	4	"	5.34
1615	/ 3000	5.20	16.44	0.56	1.098	-111.0	4	"	5.59
1618	/ 3600	5.19	16.57	0.51	1.100	-112.8	6	"	5.63
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: | Purge water storage/disposal: [ ] Drummed onsite [X] Other: on site tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 3/9/06 / 1625

Purging Equipment: Pump - Type: peristaltic | Bailer - Type: | Other:

Sample Filtered: (Yes) No | Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065P24A	5 x 40 ml VOAs (3HCl, 2 H_2SO_4)	CET	2030	
	2 x 500 ml Poly HNO_3/NaOH w/ Zn Acetate			
	1 x 1L Poly			
	1 x 1L Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 1065P243

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: B Brown | Sampled by: B Brown | Date: 3/13/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 22.33

Depth to Water (WL, ft. below TOC): 2.90

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: disposable

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[X] Near top Depth (ft): ~3'

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: .33 gpm

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron / Hach / YSI / Orion

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1534 / initial	7.1	14.6	1.81	902	–	2.95	
1537 / 1.0	6.9	15.8	–	809	–	10.5	
1540 / 2.0	6.9	16.4	–	809	–	14.4	
1543 / 3.0	6.9	16.8	–	809	–	19.4	
1550 / –	6.9	16.3	1.79	811	146	22.9	
/							
/							
/							
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/							
/							
/							
/							

Comments: Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 3/13/06 / 1550

Purging Equipment: Pump - Type: Bailer - Type: disposable Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065P243	3 x 40 mL	C+T	2037	
	1 x 1L Poly			
	1 x HNO_3 Poly			Filtered
	1 x NaOH poly			

QUALITY CONTROL SAMPLES 1 x 1L Amber

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 1065PZ5AR

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: M. Toll | Sampled by: M. Toll | Date: 3/7/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 9.40

Depth to Water (WL, ft. below TOC): 2.82

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[X] Near top Depth (ft): 4'-6' (draw down)

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length ___ x Water Volume/ft ___ x 3 No. Vols ___ = ___ gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: ___ gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter, Hach, YSI, Orion

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1336	—	—	—	0.62	—	—	—	
1339	0.26	7.07	13.0	—	1336	—	126	
1340	0.50	7.11	13.0	—	1340	—	252	
1341	0.75	7.13	12.9	—	1337	—	300	
	—	—	—	0.41	—	12	—	

Comments: Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/7/06 / 1400

Purging Equipment: Pump - Type: Bailer - Type: Disp Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065PZ5AR	1 Poly, 1 HNO_3	CAT	2097	USED 3 Filters for Metals Sample.
↓	3x40ml H_2SO_4	↓	↓	
	3x40ml, 1x ℓ			
	1 NaOH + ZNAC			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
1065PZ5AR	DUP 030706ZB
1065PZ5AR	1065PZ5ARCL

1345

COC # 2098

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 1065P2513

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: B Pond | Sampled by: B Pond | Date: 3/13/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 25.21

Depth to Water (WL, ft. below TOC): 1.87

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type disp.

[ ] Normal [ ] Pump \ Type

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 2'

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate 0.33 | gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1609	/	initial	7.0	12.9	4.22	716	–	8.77	
1612	/	1.0	7.0	13.4	–	716	–	7.59	
1615	/	2.0	7.0	14.0	–	717	–	10.7	
1618	/	3.0	7.0	14.4	–	717	–	9.45	
1620	/	—		14.4	3.98	–	122		
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments | Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled 3/13/06 / 1620

Purging Equipment: Pump - Type | Bailer - Type disp | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065P25B	3x40mL	C+T	2037	
	1x HNO3 Poly			
	1x NaOH Poly			
	1x 1L Poly			

QUALITY CONTROL SAMPLES 1x1L Amb

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 1065PZ6A

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeSoay | Sampled by: John DeSoay | Date: 3/2/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC):

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/							
/	Unable to locate. Several different						
/	attempts to find well were made						
/	during sampling event. All failed. well must						
/	be under pile of dark. Metal Detector						
/	is of no use						
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments: Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled /

Purging Equipment: Pump - Type Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 1065 PZ6B

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: M. Toll | Sampled by: M Toll | Date: 3/10/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 26.38

Depth to Water (WL, ft. below TOC): 9.98

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 2" E.S.
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

16.4 (Water Column Length) x 14.8 (Water Volume/ft) x 3 (No. Vols) = 44.4

45 gals — CALCULATED PURGE VOLUME

45 gals — ACTUAL PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate:

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter, Hach, YSI, Orion

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1007	—	6.54	16.4	—	916	—	17	
1010	14.8	6.39	16.6	—	912	—	9	
1018	29.6	6.37	16.7	—	907	—	4	
1022	44.4	6.09	16.6	—	900	—	6	
	—	—	17.9	6.27	—	137.1	—	

Comments: Purge water storage/disposal: [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/10/06 / 1035

Purging Equipment: Pump - Type: Bailer - Type: Disp. Other:

Sample Filtered: (Yes) No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065PZ6B	3 HNO_3, 3 H_2SO_4	CHT		MS/MSD
	3 NaOH+ZnAc			
	9 x VOA			
	3 x 2			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 1065PZ7A

Project Number: 28993 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: D.Cornish | Sampled by: D.Cornish | Date: 3/15/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 23.78

Depth to Water (WL, ft. below TOC): 2.19

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type Disposable

[ ] Normal [ ] Pump \ Type

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate .5gpm | 4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time	/ Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND µS (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
930	/ Initial	7.37	12.9	pre 5.35	457.1	–	122	cloudy
933	/ 1.5	7.05	14.0	–	360.1	–	115	"
936	/ 3	6.81	14.9	–	343.9	–	138	"
939	/ 4.5	6.29	14.8	–	348.0	–	203	"
	/			post 4.47		post 270		
	/							
	/							
	/							
	/							
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	/							
	/							
	/							
	/							
	/							

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 3/15/06 / 945

Purging Equipment: Pump - Type | Bailer - Type: Disposable | Other

Sample Filtered: (Yes) No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065PZ7A	3x1L NP Poly	CET	2045	MS/MSD
	3x1L HNO_3 Sealed Poly			
	9x1L HCl VOAs			
	3x1L NaOH ZnAC Poly			
	2x1L Amber NP			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 1065PZ7B

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: P. Cornish | Date: 3/15/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 10.76

Depth to Water (WL, ft. below TOC): 2.76

Depth to free phase (FP, ft. below TOC): ~~2~~

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disposable

[ ] Normal [ ] Pump \ Type

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate: .5 gpm | 4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time	Liters or ~~Gallons~~	pH	Temp °C °F	DO (mg/L)	Sp. COND µS ~~(mS/cm)~~	ORP (mV)	Turbidity (NTU)	Comments
1045	Init.	7.55	13.8	pre 0.44	927.7	–	36	clear
1048	1.5	7.06	14.3	–	950.4	–	130	cloudy
1051	3.0	7.01	14.5	–	948.3	–	164	"
1054	4.5	6.98	14.5	–	936.1	–	133	"
				post 0.90		post 180.3		

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 3/15/06 / 1100

Purging Equipment: Pump - Type | Bailer - Type: Disposable | Other

Sample Filtered: (Yes) No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1061056PZ	3xHCl 40ml	CET	2045	
1065PZ7B	1x500ml HNO3			
	1x500ml NaOH+Zn Ac	Poly		
	1x1L Poly NP			
	1x1L Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

Second Quarter 2006

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 10 CG
Well No.: 1047 MW101
Project Number: 2843
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: John DeJong
Sampled by: J DeJong
Date: 5/25/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 14.69
Depth to Water (WL, ft. below TOC): 4.15
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged
[ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD
[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 2"
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE
[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[X] Other 12

PURGE VOLUME CALCULATION

10.54 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 28.5 gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate
Purge Rate ~2 gpm
9.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556, HACH

Time / Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1509 / 9.5	6.88	16.7	—	416	—	97	See Chart
1504 / 19	6.97	15.9	—	404	—	19	
1509 / 28.5	6.94	15.9	post: 1.21	389	post: 137.1	12	to

Comments
Purge water storage/disposal [ ] Drummed onsite [X] Other Back of truck

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/25/06 / 1505

Purging Equipment: Pump - Type ____ Bailer - Type Disp Other ____

Sample Filtered: Yes / No (circled No) Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1047MW101	9 HCl vocs	CTF	2114	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: ~~1065MW~~ 1065PZ1A

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: P. Cornish | Date: 5/24/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 5.81

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type Peri.
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate 250ml/min

3.2 L ~~galer~~ ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556

Time	/ Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	DTW:	Comments
1148	/ 1.4	6.94	19.18	0.75	617 µS	-29.9	13.8		
1151	/ 750	7.00	17.75	0.54	1324	-125.2	47.9	5.90	
1154	/ 1.5	7.06	17.59	0.71	1309	-130.3	38.7	5.99	
1157	/ 2.25	7.03	17.58	0.54	1281	-126.2	21.4	6.36	
1200	/ 3.0	7.00	17.68	0.38	1267	-124.1	21.5	6.90	
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Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other on site tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 5/24/06 1212

Purging Equipment: Pump - Type: Peri. | Bailer - Type | Other

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Metals.

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065PZ1A	1x1L Poly. NP.	C&T	2149	
	1x500ml HNO3 Poly			
	1x500ml NaOH/CitAC Poly			
	6x40ml HCl Voa.			

QUALITY CONTROL SAMPLES 1x1L Amber NP

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 1065PZ2A

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: P. Cornish | Date: 5/24/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 3.30

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type: Peri.
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals

CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate: 200 ml/min

3.0 L ~~gals~~

ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556

Time	/ Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND ~~(mS/cm)~~	ORP (mV)	Turbidity (NTU)	(FP) DTW	Comments
1240	/ init	7.13	19.21	0.79	966 µS	-122.3	19.3	3.42	
1243	/ .6	7.13	19.20	0.28	943	-115.6	3.69	3.42	
1246	/ 1.2	7.15	19.55	0.16	852	-115.0	3.38	4.11	
1249	/ 1.8	7.16	19.61	0.13	835	-114.5	3.11	4.19	
1252	/ 2.4	7.12	19.66	0.14	825	-116.8	3.94	4.22	
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Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 5/24/06 / 1305

Purging Equipment: Pump - Type: Peri. | Bailer - Type | Other

Sample Filtered: (Yes) No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065PZ2A	1x1L Amber NP	CET	2149	
	1x1L Poly NP			
	3x40ml Vials HCl			
	1x500ml Poly HNO3			
	1x500ml Poly NaOH/ZnAC			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg 1065 | Well No.: 1065PZ4A

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: P. Cornish | Date: 5/24/00

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 5.29

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Normal [ ] Modified (max 5 gpm) [ ] Bailer \ Type [X] Pump \ Type Peri. [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft) [ ] Near Bottom Depth (ft) [ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate 200 ml/min

3 L gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556

Time	/ Liters or Gallons	pH	Temp (C) °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(TC) DTW:	Comments
920	/ Init	6.77	18.78	0.74	1471 µs	-5.0	10.2		clear
923	/ 600	6.84	18.88	0.81	1352	-103.2	6.56	5.69	
926	/ 1.200	6.84	18.96	1.20	1298	-117.0	4.27	5.86	
929	/ 1.8	6.85	19.04	0.93	1294	-122.9	4.28	5.92	
932	/ 2.4	6.85	19.04	0.74	1294	-125.9	4.65	6.03	
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Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other on site Tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 5/24/00 / 940

Purging Equipment: Pump - Type: Peri. | Bailer - Type | Other

Sample Filtered: (Yes) / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065PZ4A	1x1L Poly NP	CET	2149	
	1x500ml HNO3 Poly			
	1x500ml NaOH Poly			
	3x40ml Vox HCl			

QUALITY CONTROL SAMPLES 1x1L Amber NP

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 1065MW101A&B

Project Number: 2593 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: P. Cornish | Date: 5/24/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 5.61

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type: Peri.
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate: 200ml/min | 3 L gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556

Time	/ Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND ~~µmS~~/cm)	ORP (mV)	Turbidity (NTU)	(~~FPL~~) DTW:	Comments
1010	/ 1.4	6.80	19.92	0.58	1346µs	-117.7	16.7		
1013	/ 600	6.84	19.20	0.53	1482	-110.7	25.0	5.98	
1016	/ 1200	6.86	19.29	0.35	1448	-105.3	12.8	6.18	
1019	/ 1.8	6.87	18.97	0.28	1398	-102.6	5.71	6.30	
1022	/ 2.4	6.87	18.98	0.22	1368	-101.4	3.08	6.49	
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Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other onsite Tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 5/24/06 1030

Purging Equipment: Pump - Type: Peri. | Bailer - Type | Other

Sample Filtered: (Yes) No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065MW101A&B	1x1L Poly NP	CET	2149	
	1x500ml Poly HNO3			
	6x40ml Vom HCl			
	1x500ml Poly NaOH ZnAc			

QUALITY CONTROL SAMPLES 1x1L Amber NP

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 1065 | Well No.: 1065MW102

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: R. Cornish | Sampled by: R. Cornish | Date: 5/24/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 4.20

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type Peri.
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate 2000ml/min | 4.75 L gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI 556

Time	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND ~~(mS/cm)~~	ORP (mV)	Turbidity (NTU)	(FP) DTW:	Comments
1052	init	6.82	19.40	0.75	1070 µS	-96.1	17.3		
1055	.6	6.86	18.99	0.46	1054	-93.8	5.33	4.82	
1058	1.2	6.89	18.68	0.52	871	-90.1	4.68	5.68	
1102	2.0	6.85	18.52	0.54	773	-75.2	4.65	5.36	
1105	2.6	6.79	18.23	0.43	708	-65.3	4.74	5.52	
1108	3.2	6.76	18.20	0.34	647	-61.5	4.31	5.51	
1111	3.8	6.72	17.93	0.29	600	-44.1	4.44	5.90	
1114	4.4	6.73	17.89	0.25	590	-40.6	4.67	5.72	

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled 5/24/06 / 1125

Purging Equipment: Pump - Type Peri. | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Peri. Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065MW102	1x1L Amber NP	CET	2149	
	1x1L Poly NP			
	1x500ml Poly HNO3			
	1x500ml Poly NaOH/ZnAc			
	6x40ml Vox HCl			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 3W. 1065 | Well No.: 1065 MW9A
Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: J. DeJong | Sampled by: J. DeJong | Date: 5/24/08

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 13.43
Depth to Water (WL, ft. below TOC): 3.60
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: DISP
[ ] Normal [ ] Pump \ Type:
[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[X] Other: N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:
Recharge Rate: Purge Rate: 0.2 gpm

1.00 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI, HACH, Myron, ISE01

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1443	Initial	6.90	19.7	—	1350	—	7	
1446	0.6	6.87	18.6	—	1352	—	5	
1449	1.2	6.82	18.4	—	1348	—	8	
1452	1.8	6.81	18.2	post: 2.13	1348	post: -112.1	13	

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/24/08 1500

Purging Equipment: Pump - Type: Bailer - Type: DISP Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065MW9A	1 L poly (x2) DUP	CFT	2151	
	1 HNO3			
	3 HCl vials			
	1 NaOH/NaCl (Amber)			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
1065MW9A	DUP052408 3R @ 1505
	1065MW9ACL

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

Split

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BW. 1065 | Well No.: 1065PZ SAR
Project Number: 2593 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: J. DeJong | Sampled by: J. DeJong | Date: 5/24/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 9.40
Depth to Water (WL, ft. below TOC): 2.30
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type 2"
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) 7
[ ] Other

PURGE VOLUME CALCULATION

6.1 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 16.5 gals CALCULATED PURGE VOLUME

5.0 gals ACTUAL PURGE VOLUME

Total Purge Time
Recharge Rate
Purge Rate ~1.0 gpm

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI, HACH, Hydrolab

Time	Liters or Gallons	pH	Temp C/F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
		Began Normal but well will not keep up so switched to Mod. @ 3gal						
1141	3.0	6.96	21.0	—	1576	—	103	
1144	4.0	6.99	18.5	—	1609	—	>1000	
1147	5.0	7.00	17.9	~~post~~ 7.01	1607	~~post~~ 111	>1000	
		only able to collect 1 HNO3 bottle @ this time						
1540	—	7.11	15.5	post 4.21	1365	~~post~~	565	
		Attempt to fill rest of bottles						
						post: -1 -88.3		

Comments: DO reading
Purge water storage/disposal: [ ] Drummed onsite [ ] Other Back to tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/24/06, 1155

Purging Equipment: Pump - Type | Bailer - Type DISP | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065PZ SAR	3 HCl vocs	CTT	2151	
	1 L poly			
	1 L amber			
	1 HNO3			

QUALITY CONTROL SAMPLES 1 ZnAc NaOH

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bld 1065 | Well No.: 1065 PZ 1B

Project Number: 3893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: J. DeJong | Sampled by: J. DeJong | Date: 5/24/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 21.85

Depth to Water (WL, ft. below TOC): 8.91

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [ ] Pump \ Type 2" sub
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) 17'
[ ] Other

PURGE VOLUME CALCULATION

20.94 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 56.5 gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate ~1.3gpm increased to 2.3gpm

gals ACTUAL PURGE VOLUME 56.5 gal

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI, Hach, Hyrion, Model 29

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1000	19.0	7.42	18.5	—	1346	—	12	clear
1015	38	7.63	17.9	—	1332	—	2	
1023	56.5	7.68	18.3	post: 2.7	1349	post: 2.2	3	

Comments: ✓✓ DO reading

Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/24/06, 1030

Purging Equipment: Pump - Type | Bailer Type Disp | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065PZ1B	1L poly	CTL	2151	
↓	1L Amber			
	6 VHOAs	↓		
	1 HNO3			

1 NaOH-2 Nac

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg. 1065 Area
Well No.: 1065MW9B
Project Number: 28
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: D. Raynal
Sampled by: D. Raynal
Date: 5/25/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 31.91

Depth to Water (WL, ft. below TOC): 0.00

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type: 2" Redi Flo
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft): See below
[ ] Near Bottom Depth (ft):
[ ] Other

PURGE VOLUME CALCULATION

31.91 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 86.7 gals CALCULATED PURGE VOLUME

Total Purge Time: 24 min.

Recharge Rate: Good

Purge Rate: 3.5 gal./min.

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter / Turbidimeter

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1054 / 28.72	6.8	17.1	—	824	—	~~320~~ 117	Pump Placed at ~10'
1104 / 57.44	6.8	17.2	—	820	—	5	Pump lowered to ~15'
1112 / 86.16	6.8	17.3	0.36	819	57.7	4	Pump lowered to ~20'
/							
/							Needs new lock
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments:

Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/25/06 / 1120

Purging Equipment: Pump - Type: Bailer - Type: Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: Dissolved Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
1065 MW9B	1 L Nº Poly	CLT	2153	
	1 500 ml HNO_3 Poly			
	3 TCL Vocs			
	1 L NaOH + Zinc Poly			

QUALITY CONTROL SAMPLES 1 Nº Amber

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MINI-CAP AREAS
APPENDIX SECTION A-12
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2006
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

The Mini-Corrective Action Plans (Mini-CAP) document addresses, individually, the environmental concerns associated with USTs at 13 areas, including 12 buildings and one FDS area. Of the 13 sites listed in the *Mini-CAPs Site Reviews and Recommendations to Address Former Petroleum Release Sites* (Mini-CAP Report) prepared by Geo/Resource Consultants Inc. (GRC) in March 2004, only five are included in the Presidio-wide Groundwater Monitoring Program at the Presidio. The Mini-CAP Areas associated with the Presidio-wide Groundwater Monitoring Program include Buildings 514, 1221, 1213 and 1260 that formerly used USTs for fuel oil heating in residences and offices and gasoline fuel storage for services stations. Additionally, the Mini-CAP Areas also include one section of the former FDS pipelines associated with the Infantry Terrace/Sibert Residential loop (MT-14) (GRC, 2004). Each of the five Mini-CAP Areas included in the groundwater monitoring program are discussed in more detail below.

The five Mini-CAP Areas included in the Presidio-wide monitoring program have been divided into two areas (Area 1 and Area 2), based on location, in order to minimize the number of figures associated with this section and also to simplify the reporting. Mini-CAP Area 1 includes Building 1213, Building 1221, and Building 1260 and their locations and groundwater elevation contours are illustrated on Figures A-12-1 and A-12-2. Mini-CAP Area 2 includes Building 514 and FDS Section MT-14. The site plans, well locations, and groundwater elevation contours associated with Mini-CAP Area 2 are illustrated on Figures A-12-3 and A-12-4.

From 1993 until 1996, Montgomery Watson (MW) removed the USTs and associated piping from 15 buildings that historically used USTs. MW prepared the *Draft Mini-CAPs* in 1999 detailing subsurface investigation results at all 15 sites. In May 1999, International Technologies (IT) Corporation summarized FDS removal activities in the report titled *FDS Closure Report, Presidio of San Francisco, California* (FDS Closure Report). In this report, a CAP was recommended for FDS Sections MT-13 and MT-14. The portion of the FDS associated with MT-14 was subsequently incorporated into the Mini-CAP document.

In March 2003, the Trust requested review of the Mini-CAP and CAP reports completed by MW and IT Corporation by GRC. The Mini-CAP Report recommends additional site investigations and groundwater monitoring for Buildings 514, 1221, 1213, 1260, and the FDS Section MT-14 (GRC, 2004).

In August 2004, GRC installed 11 monitoring wells at the five Mini-CAP Areas. These wells were sampled by GRC for the first time in September 2005 (Third Quarter 2005), but were not added to the Presidio-wide Groundwater Monitoring Program until the Fourth Quarter 2005. Groundwater samples collected from the Mini-CAP wells in September 2005 were analyzed for TPHg, TPHd, TPHfo, VOCs, dissolved metals, PCBs and/or PAHs. The data associated with the September 2005 sampling event has been validated and the report is currently being prepared. This data will be presented in the next Semi-Annual Groundwater Monitoring Report. Groundwater samples collected from mini-CAP wells in the Fourth Quarter 2005 were analyzed for DO, TPHg, TPHd, TPHfo, BTEX, and MTBE (Table A-12-1).

Cleanup of the Mini-CAP Areas must adhere to Site Cleanup Requirements (SCRs) per *Order No. R2-2003-0080, Revised Site Cleanup Requirements and Recission of Order No. 91-082 and Order No. 96-070* (RWQCB, 2003). The SCRs are applicable soil and groundwater cleanup levels that protect human health, ecological receptors, and water quality.

1.1 Building 1213

Building 1213 is three story stucco house located in Mini-CAP Area 1 in the western upland portion of the Presidio on Ralston Avenue west of Battery-Howe Wagner (Figure A-12-1). The site elevation is approximately 222 feet above the PLLW datum.

Building 1213 reportedly contained an outdoor 500-gallon fuel oil UST that was removed in 1993. However, the presence of TPHg and benzene above the respective SCRs of 1,030 and 0.6 mg/kg in soil confirmation samples indicated that the UST was used for a gasoline generator. TPHg and benzene were detected in soil confirmation samples at concentrations of 1,500 and 2.8 mg/kg, respectively (GRC, 2004).

In 1999, MW drilled four soil borings 1213SB1 through 1213SB4. Groundwater was not sampled during this investigation. Soil borings, sample locations and chemical data tables, are documented in GRC's 2004 Mini-CAP Report. Soil samples from the borings were analyzed for TPHg, TPHd, BTEX, and VOCs. Of the compounds analyzed, TPHg, benzene, ethylbenzene, and total xylenes were detected at concentrations exceeding their applicable cleanup levels.

GRC installed one monitoring well (1213GW101) at Building 1213 as part of the Mini-CAP, which is currently included in the Presidio-wide Groundwater Monitoring Program.

1.2 Building 1221

Building 1221 is located in Mini-CAP Area 1 in the western upland portion of the Presidio within Fort Winfield Scott (Figure A-12-1) and lies at approximately 224 feet above the PLLW datum.

Four USTs (1221.1, 1221.2, 1221.3, and 1221.4) at Building 1221 were formerly associated with a gasoline service station. The three 6,000-gallon and one 10,000-gallon gasoline USTs were removed between June and September 1993. All the tanks reportedly contained gasoline; however, during removal activities the residual liquid in UST 1221.1 was a mixture of water and waste oil, indicating that the USTs may have been used for automotive waste oil storage.

A total of nine soil confirmation samples were collected from beneath the USTs and were analyzed for TPHg, TPHd, BTEX, and SVOCs. None of these compounds exceeded SCRs. It is unknown if soil was removed from the excavations (GRC, 2004).

In 1999, MW drilled eight exploratory soil and one grab groundwater boring adjacent to and within the former UST excavations. Soil samples were collected and analyzed for TPHg, TPHd, oil and grease, BTEX, and PAHs. PAHs were the only compounds detected above the SCRs. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and benzo(k)fluoranthene were all detected at concentrations exceeding their applicable SCRs in soil. Two grab groundwater samples were collected from soil boring 1221HP2 at depths of 10 and 20 feet bgs. Groundwater samples were analyzed for TPHg, oil and grease, BTEX, and VOCs. Compounds detected included benzene, 1,2-DCE, PCE, TCE, and bis(2-ethylhexyl)pthalate. Bis(2-ethylhexyl)pthalate was the only compound detected that exceeded its applicable groundwater cleanup level of 4 µg/L. Detailed results are presented in the Mini-CAP Report (GRC, 2004).

Building 1221's Mini-CAP groundwater monitoring program includes four monitoring wells; 1221GW101, 1221GW102, 1221GW103, and 1221GW104 (Figure A-12-1).

1.3 Building 1260

Building 1260 is located in Mini-CAP Area 1 in the upland area of the Presidio in Fort Winfield Scott within the Special Status Ecological Cleanup Level area (Figure A-12-1). Schofield Avenue is west of the site and Veterans Boulevard (Highway 1) is to the east. The site elevation is approximately 142 feet PLLW (GRC, 2004).

Building 1260 formerly had a 10,000 gallon fuel oil UST that was used in conjunction with a fuel oil pump station. Both Building 1260 and the UST were removed from the site in 1993. Approximately 150 cubic yards of contaminated soil were removed during the removal (GRC, 2004).

There are three applicable soil SCRs for Building 1260: recreational human health SCRs, protection of groundwater quality SCRs (>5 feet above the highest groundwater), and Protection of Ecological Receptors SCRs (Table 7-5) (RWQCB, 2003).

Soil samples collected, as part of a subsequent subsurface investigation at the Building 1260 site, were analyzed for TPHd and BTEX compounds. TPHd was detected above the human health SCR of 1,380 mg/kg in two locations at concentrations of 3,100 and 2,300 mg/kg. TPHd was also detected above the ecological receptors SCR of 700 mg/kg at one location at a concentration

of 7,100 mg/kg. No other detected compounds were found to exceed applicable SCRs during this investigation.

The groundwater monitoring program at Building 1260 includes monitoring wells 1260GW101, 1260GW102, and 1260GW103 (Figure A-12-1).

1.4 Building 514

Building 514 is located in Mini-CAP Area 2 in the eastern upland portion of the Presidio at the southwest corner of Simonds Loop and Rawles Street (Figure A-12-3). Building 514 is approximately 200 feet above the PLLW datum.

In 1993, a 1,000 gallon fuel oil UST was removed from the site. Following the tank removal, approximately 30 cubic yards of soil were removed and sidewall confirmation samples were collected. Unknown TPH compounds were detected in one soil confirmation sample at a concentration of 3,800 mg/kg. No TPHd, BTEX and SVOCs were detected above laboratory reporting limits. During tank removal activities, no confirmation samples were collected from beneath the former UST; therefore, MW recommended a soil boring, grab groundwater boring and monitoring well be advanced to further characterize soil and groundwater at the site, but only soil borings were completed during this investigation (GRC, 2004).

In 1994, MW drilled three soil borings 514ASB1 through 514ASB3 to approximately 15 feet bgs. Soil samples were analyzed for TPHd, BTEX, and SVOCs. TPHd, BTEX and SVOCs were not detected above laboratory reporting limits in any of the soil borings.

The groundwater monitoring program for Building 514 includes one monitoring well, 514AGW101 (Figure A-12-3).

1.5 FDS Section MT-14 – Infantry Terrace/Sibert Loop

The Infantry Terrace/Sibert Loop FDS pipeline (Section MT-14) is located in Mini-CAP Area 2 and served residences on both sides of Sibert Loop, entering the area near Building 334, across Sibert Loop and running northeast through the Infantry Terrace area. The residences were served fuel oil through via lateral piping extending from a primary pipeline. IT removed or abandoned in place approximately 1,410 feet of FDS and lateral piping between October 1996 and February 1997. Of the 1,410 feet of piping approximately 699 feet were removed. Due to existing buildings and other features that prevented removal, approximately 711 feet of piping were abandoned in place (GRC, 2004).

During the pipeline removal, over excavation occurred between Buildings 333 and 334 (59 cubic yards) and also between Buildings 340 and 341 (1,667 cubic yards). The excavations were backfilled with soil treated in the Low Temperature Thermal Desorption (LTTD) unit.

Several confirmation samples collected during the removal action were found to exceed applicable SCRs for either TPH or PAHs. As a result, additional subsurface investigation and monitoring well installation was recommended (GRC, 2004).

The groundwater monitoring program for FDS MT-14 Area consists of two monitoring wells FM14EX07GW101 and FM14EX07GW102 (Figure A-12-3).

2.0 SITE DESCRIPTION AND GEOLOGY

Mini-CAP Areas currently included in the Presidio-wide Groundwater Monitoring Program are described below.

2.1 Building 1213

Building 1213 is situated in the Marina Groundwater Basin. Depth to groundwater was measured at approximately 29 feet bgs during the Fourth Quarter 2005 in monitoring well 1213GW101. Groundwater flow in this area follows the general topographic trend towards the east and northeast (Figure A-12-1).

Geology in the area is characterized by unconsolidated deposits consisting of Quaternary slope debris and ravine fill. The unconsolidated sediments are underlain by Franciscan complex bedrock. Based on cross sections by completed by MW in 1999, surface soils (less than 5 feet below grade) are characterized by clayey gravels and clayey sands. Serpentine bedrock is encountered beneath these materials at depths of approximately 23.5 feet (GRC, 2004).

2.2 Building 1221

Building 1221 is in the Marina Groundwater Basin (Figure 1). In the Fourth Quarter 2005, depth to groundwater ranged from 8.89 to 14.79 within monitoring wells 1221GW102 and 1221GW101, respectively. Groundwater flow follows the general topographic trend towards the east and northeast (Figure A-12-1).

Geology at the site is a combination of Quaternary slope debris, ravine fill and Franciscan complex bedrock. Serpentine bedrock from the Franciscan Formation is overlain by unconsolidated dune sand, clays and silty clay deposits (GRC, 2004).

2.3 Building 1260

Building 1260 is located in the West Valley Groundwater Area within the Marina Groundwater Basin. Depth to groundwater in the Fourth Quarter 2005 ranged between 17.35 and 29.49 feet bgs. Groundwater flow follows the general topographic trend towards the east (Figure A-12-1).

Geology at the Site consists of Franciscan Formation bedrock overlain by unconsolidated deposits of dune sands and clays. In borings completed by MW, clay was observed up to 14 feet bgs and was underlain by serpentine bedrock (GRC, 2004).

2.4 Building 514

Building 514 is located within an uplands area of the Marina Groundwater Basin (Figure 1). In the Fourth Quarter 2005, the depth to groundwater was measured at 21.46 feet bgs. Groundwater flow follows the general topographic trend towards the west and northwest (Figure A-12-3).

Geology at the site consists of the Franciscan complex bedrock to depths of approximately 16 feet bgs overlain by unconsolidated clays and silts (GRC, 2004).

2.5 FDS Section MT-14

FDS Section MT-14 is located in the Marina Groundwater Basin (Figure 1). In the Fourth Quarter 2005, the depth to groundwater was measured at approximately 26 to 28 feet bgs. Groundwater flow follows the general topographic trend towards the east (Figure A-12-3).

Geology at the site consists of the Franciscan complex bedrock, consisting primarily of sandstone, overlain by undifferentiated slope debris. The surface deposits overlie the bedrock at depths ranging from 1.5 to 17 feet bgs (GRC, 2004).

3.0 GROUNDWATER MONITORING

The Mini-CAP Areas have 11 associated monitoring wells (Figures A-12-1 and A-12-3). Groundwater elevations were collected at all 11 wells in the First and Second Quarters 2006. All of the Mini-CAP monitoring wells were sampled in accordance with Tables 1A and 1B during the First and Second Quarters 2006, respectively.

Water level meters were calibrated on 6 March and 22 May 2006 for the First and Second Quarters 2006, respectively. The calibration logs can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C.

3.1 Groundwater-Level Measurements and Interpretation

Groundwater elevation measurements were manually collected on 6 March and 22 May 2006 at all Mini-CAP monitoring wells for both the First and Second Quarters 2006 and are summarized in Table A-12-4. Mini-CAP wells are located in two separate areas at the Presidio, and groundwater elevation maps are presented as Mini-CAP Area 1 (Figures A-12-1 and A-12-2) and Mini-Cap Area 2 (Figures A-12-3 and A-12-4).

In Mini-CAP Area 1, groundwater elevations during the First Quarter 2006 ranged from 120.74 to 216.66 feet above PLLW in monitoring wells 1260GW103 and 1221GW102, respectively (Figure A-12-2). Mini-CAP Area 2 groundwater elevations during the First Quarter 2006 ranged from 149.18 to 181.11 feet above PLLW in monitoring wells FM14EX07GW102 and 514AGW101, respectively (Figure A-12-4).

Second Quarter 2006 groundwater elevations in Mini-CAP Area 1 ranged from 124.25 to 216.67 feet above PLLW in monitoring wells 1260GW103 and 1221GW101, respectively (Figure A-12-2). Mini-CAP Area 2 groundwater elevations during the Second Quarter 2006 ranged from 148.69 to 181.25 feet above PLLW in monitoring wells FM14EX07GW102 and 514AGW101, respectively (Figure A-12-4).

Groundwater gradients were calculated for both the northerly and southerly portions of Mini-CAP Area 1 in order to better understand groundwater flow directions. Data from monitoring wells 1213GW101 and BHWGW01 were used for the northern portion and data from monitoring wells 1221GW101 and 1260 GW103 were used for the southern portion of Mini-CAP Area 1. Groundwater gradients in Mini-CAP Area 2 were calculated for the eastern and western portion of the area by using data from monitoring wells FM14EX07GW102, TH-4 and 514AGW101. Groundwater elevation data for study areas adjacent to Mini-CAP Areas 1 and 2 can be found in Tables A-4-3, A-7-5 and A-6-5, respectively.

Mini-CAP Area 1 groundwater flow directions were northeasterly in the northern portion of the area and easterly in the southern portion of the area, during the First and Second Quarters 2006 (Figures A-12-1 and A-12-2). During the First Quarter 2006, the groundwater gradient in the northern portion of Mini-CAP Area 1 was approximately 0.05 feet per foot. The groundwater gradient in the southern portion of Mini-CAP Area 1 was approximately 0.10 feet per foot.

During the Second Quarter 2006, the groundwater gradient in the northern portion of Mini-CAP Area 1 was approximately 0.06 feet per foot and the groundwater gradient in the southern portion was 0.10 feet per foot.

Mini-CAP Area 2 groundwater flow direction for both the First and Second Quarters 2006 was generally from the higher elevations of Landfill E, Landfill 2, Fill Site 1 and Building 514, northerly, towards the lower elevation of Tennessee Hollow. During the First Quarter 2006, the groundwater gradient between monitoring wells FM14EX07GW102 and TH-4 was calculated to be approximately 0.06 feet per foot. The groundwater gradient between monitoring wells TH-4 and 514AGW101 was approximately 0.08 feet per foot. Groundwater gradients in Mini-CAP Area 2 during the Second Quarter 2006 were similar to those observed during the First Quarter.

3.2 Monitoring Well Purging and Sampling

In the First Quarter 2006, all 11 Mini-CAP monitoring wells were sampled and in the Second Quarter 2006, five Mini-CAP monitoring wells were sampled. All Mini-CAP wells were

sampled using methods shown in Tables 1A and 1B and in accordance with procedures described in the FSP (Treadwell & Rollo, 2001a). In addition to the primary samples collected during the First Quarter 2006, a duplicate sample (DUP0317062A) was collected from 1213GW101. During the Second Quarter 2006, duplicate (DUP05242006) and QC duplicate (1213GW101CL) samples were collected from 1213GW101.

Purge equipment, purging volumes, purge water parameters, and sampling equipment for each monitoring well are described in the purge records at the conclusion of this subsection. Purge water was stored, for future disposal, in one of two 2,800-gallon aboveground polyethylene storage tanks, which are located at the Central Magazine.

3.3 Groundwater Analytical Program

First Quarter 2006, groundwater samples were collected from all 11 monitoring wells on 6 March 2006 and analyzed for TPHg, TPHd, TPHfo, BTEX, MTBE and PAHs. A groundwater sample from one well (1213GW101) also was analyzed for VOCs. Second Quarter 2006 groundwater samples were collected from five monitoring wells on 22 May 2006. Four of the groundwater samples were analyzed for dissolved oxygen, BTEX, MTBE, PAHs, TPHg, TPHd and TPHfo; two of the groundwater samples were analyzed for general chemistry parameters and dissolved metals. One groundwater sample, from well 1213GW101, was analyzed for VOCs. VOC analysis in this well will continue on a quarterly basis.

All groundwater samples collected during both the First and Second Quarters 2006, were submitted to the project laboratory for the analyses shown in Tables 1A and 1B of the main text. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are shown in Table 5. Sample containers used for each well are described in the purge records at the conclusion of this section.

QA/QC samples were collected as part of this program. Section 6.2 of the main report discusses the QA/QC sampling and analysis performed during the First and Second Quarters 2006.

4.0 GROUNDWATER ANALYTICAL RESULTS

Groundwater analytical results are presented in Tables A-12-1 through A-12-3 and are discussed below.

4.1 Dissolved Oxygen

Dissolved oxygen results for the First and Second Quarters 2006, are presented in Table A-12-1.

During the First Quarter 2006, the concentrations of dissolved oxygen within the Mini-CAP Area monitoring wells ranged from 0.12 mg/L (1260GW102) to 0.87 mg/L (FM14EX07GW102)

During the Second Quarter 2006, dissolved oxygen concentrations ranged from 0.36 mg/L (1213GW101) to 0.58 mg/L (FM14EX07GW102).

4.2 TPH Results

During the First Quarter 2006, all Mini-CAP monitoring wells were analyzed for TPHg, TPHd, and TPHfo. During the Second Quarter 2006, five Mini-CAP Area monitoring wells were analyzed for TPHg, TPHg and TPHfo. The results of the TPH analyses are included in Table A-12-1 and detected results are discussed below. Cleanup levels presented in Table 7-6 of the Cleanup Levels Document have been added to Table A-12-1 for comparison purposes.

During the First Quarter 2006, TPHg was detected at concentrations of 87 and 230 within monitoring wells 1213GW101 and 1221GW102, respectively. During the Second Quarter 2006 TPHg was detected within monitoring well 1213GW101 at a concentration of 68 µg/L. TPHg was not detected within any other groundwater samples during the First Quarter 2006.

During First Quarter 2006, TPHd was detected at concentrations of 61, 53 and 88 µg/L within monitoring wells 1213GW101, 1221GW101 and 1260GW102, respectively. TPHd was not detected within any monitoring wells during the Second Quarter 2006.

TPHfo was not detected above laboratory reporting limits in any of the Mini-CAP groundwater samples collected during the First or Second Quarters 2006.

The detections of TPHg and TPHd were well below the Mini-CAP Area cleanup levels of 770 and 880 µg/L, respectively.

4.3 BTEX and MTBE Results

In the First Quarters 2006, all samples were analyzed for BTEX and MTBE. During the Second Quarter 2006, four samples were analyzed for BTEX and MTBE. The BTEX and MTBE results are presented in Table A-12-1.

During the First Quarter 2006, benzene was detected only in monitoring well 1213GW101 at a concentration of 1.5 µg/L. Toluene, ethylbenzene and total xylenes were not detected above laboratory reporting limits in monitoring well 1213GW101.

During the Second Quarter 2006, benzene was detected only in monitoring well 1213GW101, at a concentration of 8.5 µg/L. Benzene was also detected in the duplicate and QC samples collected from 1213GW101, at concentrations of 34 and 11 µg/L, respectively. The duplicate concentration is more than an order of magnitude greater than the previous high detection within this well. The RPD between the primary and duplicate samples exceeds the QAPP-specified 50% criteria, as described in the First Quarter 2006 DataVal report presented in Appendix D.

During the First Quarter 2006, MTBE was detected in samples from monitoring wells 514AGW101 and FM14EX07GW102, at concentrations of 3.6 and 2.3 µg/L, respectively. These concentrations do not exceed the cleanup level for MTBE (13 µg/L). MTBE was not detected above laboratory reporting limits in any of the samples analyzed during the Second Quarter 2006.

During the First and Second Quarters 2006, 1,2-Dichloroethane was detected only in the 1213GW101 samples at 5.8 to 8.9 µg/L and 6.6 to 9.6 µg/L, respectively, well above the 0.5 µg/L cleanup level.

Cleanup levels presented in Table 7-6 of the Cleanup Levels Document have been added to Table A-12-1 for comparison purposes. Benzene and 1,2-dichloroethane were the only compounds detected above their associated cleanup levels (1 and 0.5 µg/L, respectively) within 1213GW101. BTEX, MTBE, and VOCs will continue to be monitored within Mini-CAP monitoring wells.

4.4 PAH Results

All First Quarter 2006 samples were analyzed for PAHs (Table A-12-2). Only fluoranthene was detected in the 514AGW101 and FM14EX07GW102 samples at 0.12 and 0.09 µg/. These concentrations were estimated and below the laboratory reporting limits.

4.5 Dissolved Metal Results

During the First Quarter 2006, no Mini-CAP Area monitoring wells were analyzed for dissolved metals.

During the Second Quarter 2006, 1213GW101 and 1221GW104 were analyzed for 23 dissolved metals. Chromium was detected in the primary sample from monitoring well 1213GW101 at a concentration of 54 µg/L, which exceeds the cleanup level of 50 µg/L.

Monitoring well 1213GW101 is screened in serpentinite. Based on the *Technical Memorandum Regarding the Hexavalent Chromium in Serpentinite Bedrock and Groundwater in Upland Areas* (Montgomery Watson, 1999o) and the *Memorandum Regarding the Natural Occurrence of Hexavalent Chromium in Surface Water and Groundwater at the Presidio of San Francisco, California* (EKI, 2000c), hexavalent chromium and dissolved chromium in groundwater in upland areas of the Presidio appear to be naturally occurring and derived from serpentinite. There is no known anthropogenic chromium source associated with Building 1213. Thus, dissolved chromium appears to be naturally occurring at Building 1213.

Due to the small number of sampling events, there are not yet apparent trends in dissolved metals concentrations within the Mini-CAP Area monitoring wells. Dissolved metals results are presented in Table A-12-3.

5.0 CONCLUSIONS & RECOMMENDATIONS

Groundwater cleanup levels for benzene, 1,2-dichloroethane and chromium were exceeded on five occasions, all from groundwater sample concentrations collected from monitoring well 1213GW101. In both the First and Second Quarters 2006, benzene was detected in monitoring well 1213GW101 at concentrations of 1.5 and 8.5 µg/L, respectively. These concentrations exceed the groundwater cleanup level of 1 µg/L. The groundwater cleanup level also was exceeded during the First and Second Quarters 2006 for 1,2-DCA, which was detected at concentrations of 5.8 to 8.9 and 6.6 to 9.6 µg/L, respectively, in the primary and duplicate samples from monitoring well 1213GW101.

During the First Quarter 2006, TPHg was detected below the 770 µg/L cleanup level within 1213GW101 and 1221GW102 at 230 and 87 µg/L, respectively. The concentration of TPHg decreased to 68 µg/L in monitoring well 1213GW101 during the Second Quarter 2006. During the First Quarter 2006, TPHd was detected below the 880 µg/L cleanup level within monitoring wells 1213GW101, 1221GW102 and 1260GW102, at concentrations of 61, 53, and 88 µg/L, respectively. The TPHd concentration in monitoring well 1213GW101 decreased from 61 µg/L to <50 µg/L during the Second Quarter 2006. MTBE was detected below the 13 µg/L cleanup level during the First Quarter 2006 in monitoring wells 514AGW101 and FM14EX07GW102, at concentrations of 3.6 and 2.3 µg/L, respectively.

During the Second Quarter 2006, chromium was detected in the primary sample from monitoring well 1213GW101 at a concentration of 54 µg/L, which exceeds the cleanup level of 50 µg/L.

TPH, BTEX, MTBE, VOCs, and dissolved metals analysis will be conducted during future sampling events to develop a baseline of data and evaluate concentration trends for the Mini-CAP Area monitoring wells.

Table A-12-1
Results of TPH, VOCs, and Dissolved Oxygen Analyses
Mini-CAP Areas
Presidio of San Francisco, California

Well Name	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})	1,2-Dichloro-ethane	Acetone	Benzene	Ethylbenzene	Toluene	Total Xylenes	MTBE	All Other VOCs
	Analytical Method[1]	field	SW8015M	SW8015M	SW8015M	SW8260M	SW8260M	SW8021B / SW8260M	SW8021B / SW8260M	SW8021B / SW8260M	SW8021B / SW8260M	SW8021B / SW8260M	8260M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--
Cleanup Levels [2]		**--**	**770**	**880**	**1,200**	**0.5**	**--**	**1**	**700**	**150**	**1,750**	**13**	**--**
1213GW101	05/24/06	0.36	68 LY	< 50	< 300	**6.6**	< 10	**8.5**	< 0.5	< 0.5	< 1	< 0.5	ND
DUP05242006	05/24/06	NM	140 LY	< 50	< 300	**9.6**	< 10	**34**	2.7	0.8	0.9	< 0.5	ND
1213GW101CL	05/24/06	NM	< 50 U	< 500 U	< 1,000 U	**8**	< 10 U	**11**	0.63	< 0.5 U	< 1 U	< 2 U	ND
	03/17/06	0.63	87 LY	61 Y	< 300	**8.9**	< 10	**1.5**	< 0.5	< 0.5	< 1	< 0.5	ND
DUP0317062A	03/17/06	--	61 LY	57 Y	< 300	**5.8**	< 10	0.8	< 0.5	< 0.5	< 1	< 0.5	ND
	11/29/05	1.7	240	< 50	< 300	NA	NA	**12 C**	2.9	< 0.5	2.3 C	< 2	NA
1221GW101	03/17/06	0.24	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	11/29/05	0.2	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
1221GW102	03/17/06	0.41	230 LY	53 Y	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	11/29/05	0.2	70	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
1221GW103	03/10/06	0.71	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	11/29/05	0.3	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
1221GW104	05/24/06	NM	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	03/24/06	0.47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/10/06	0.61	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	11/29/05	1.7	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
1260GW101	03/24/06	0.61	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/10/06	0.49	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	11/29/05	2.4	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
1260GW102	03/09/06	0.12	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
DUP0309063A	03/09/06	--	< 50	88 Y	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
1260GW103	03/24/06	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/10/06	0.17	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	11/29/05	0.6	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
514AGW101	05/25/06	0.47	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	03/17/06	0.13	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	3.6	NA
	11/29/05	0.6	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
FM14EX07GW101	05/24/06	0.56	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	03/17/06	0.19	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
	11/30/05	0.2	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA
DUP1130053C	11/30/05	--	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA

Table A-12-1
Results of TPH, VOCs, and Dissolved Oxygen Analyses
Mini-CAP Areas
Presidio of San Francisco, California

Well Name	Sample Date	Dissolved Oxygen	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})	1,2-Dichloro-ethane	Acetone	Benzene	Ethylbenzene	Toluene	Total Xylenes	MTBE	All Other VOCs
	Analytical Method[1]	field	SW8015M	SW8015M	SW8015M	SW8260M	SW8260M	SW8021B / SW8260M	SW8021B / SW8260M	SW8021B / SW8260M	SW8021B / SW8260M	SW8021B / SW8260M	8260M
		(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	--
Cleanup Levels [2]		**--**	**770**	**880**	**1,200**	**0.5**	**--**	**1**	**700**	**150**	**1,750**	**13**	**--**
FM14EX07GW102	05/24/06	0.58	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/17/06	0.87	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	2.3	NA
	11/29/05	0.8	< 50	< 50	< 300	NA	NA	< 0.5	< 0.5	< 0.5	< 1	< 2	NA

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Cleanup levels taken from Table 7-6 in the *Development of Presidio-wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water* (EKI, 2002).
-- Cleanup level not established
Bold numbers indicate concentrations that exceed cleanup levels.
mg/L - milligrams per liter
µg/L - micrograms per liter
TPH - Total petroleum hydrocarbons
MTBE - Methyl tert-butyl ether
1,2-DCA - 1,2-Dichloroethane
VOCs - volatile organic compounds
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.
NA - Not analyzed
NM - Not measured

Table A-12-2
Results of PCBs and PAH Analyses
Mini-CAP Areas
Presidio of San Francisco, California

Well Name	Sample Date	All PCBs	Fluoranthene	All Other PAHs
	Analytical Method[1]	SW8082	SW8310	SW8270
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		--	300	--
1213GW101	05/24/06	NA	NA	NA
DUP-05242006	05/24/06	NA	NA	NA
1213GW101CL	05/24/06	NA	NA	NA
	03/17/06	NA	< 0.38	ND
DUP0317062A	03/17/06	NA	< 0.38	ND
1221GW101	03/17/06	ND	< 9.7	ND
	09/13/05	ND	< 0.38	ND
1221GW102	03/17/06	ND	< 0.38	ND
	09/13/05	ND	< 9.9	ND
1221GW103	03/10/06	NA	< 0.38	ND
	09/13/05	ND	< 10	ND
DUP-5091205	09/13/05	ND	< 9.8	ND
1221GW104	05/24/06	NA	NA	NA
	03/24/06	NA	< 0.38	ND
	09/13/05	ND	< 9.9	ND
1260GW101	03/24/06	NA	< 0.38	ND
	09/12/05	NA	< 9.5	ND
1260GW102	03/09/06	NA	< 0.38	ND
DUP0309063A	03/09/06	NA	< 0.39	ND
1260GW102CL	03/09/06	NA	< 0.2 U	ND
	09/12/05	NA	< 9.6	ND
1260GW103	03/24/06	NA	< 0.38	ND
	09/12/05	NA	< 9.9	ND
DUP-6-091205	09/12/05	NA	< 9.5	ND
514AGW101	03/17/06	NA	0.12 J	ND
	09/12/05	NA	< 9.7	ND
DUP-1-091205	09/12/05	NA	< 9.7	ND
FM14EX07GW101	03/17/06	NA	< 0.39	ND
	09/12/05	NA	< 9.7	ND
DUP-4-091205	09/12/05	NA	< 9.5	ND
FM14EX07GW102	03/17/06	NA	0.09 J	ND
	09/12/05	NA	< 9.6	ND

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001.
The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Cleanup levels taken from Table 7-6 in the *Development of Presidio-wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water* (EKI, 2002).
-- Cleanup level not established
Bold numbers indicate concentrations that exceed cleanup levels.
µg/L - micrograms per liter
PCBs - Polychlorinated biphenyls
PAHs - Polycyclic aromatic hydrocarbons
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-12-3
Results of Dissolved Metals Analyses
Mini-CAP Areas
Presidio of San Francisco, California

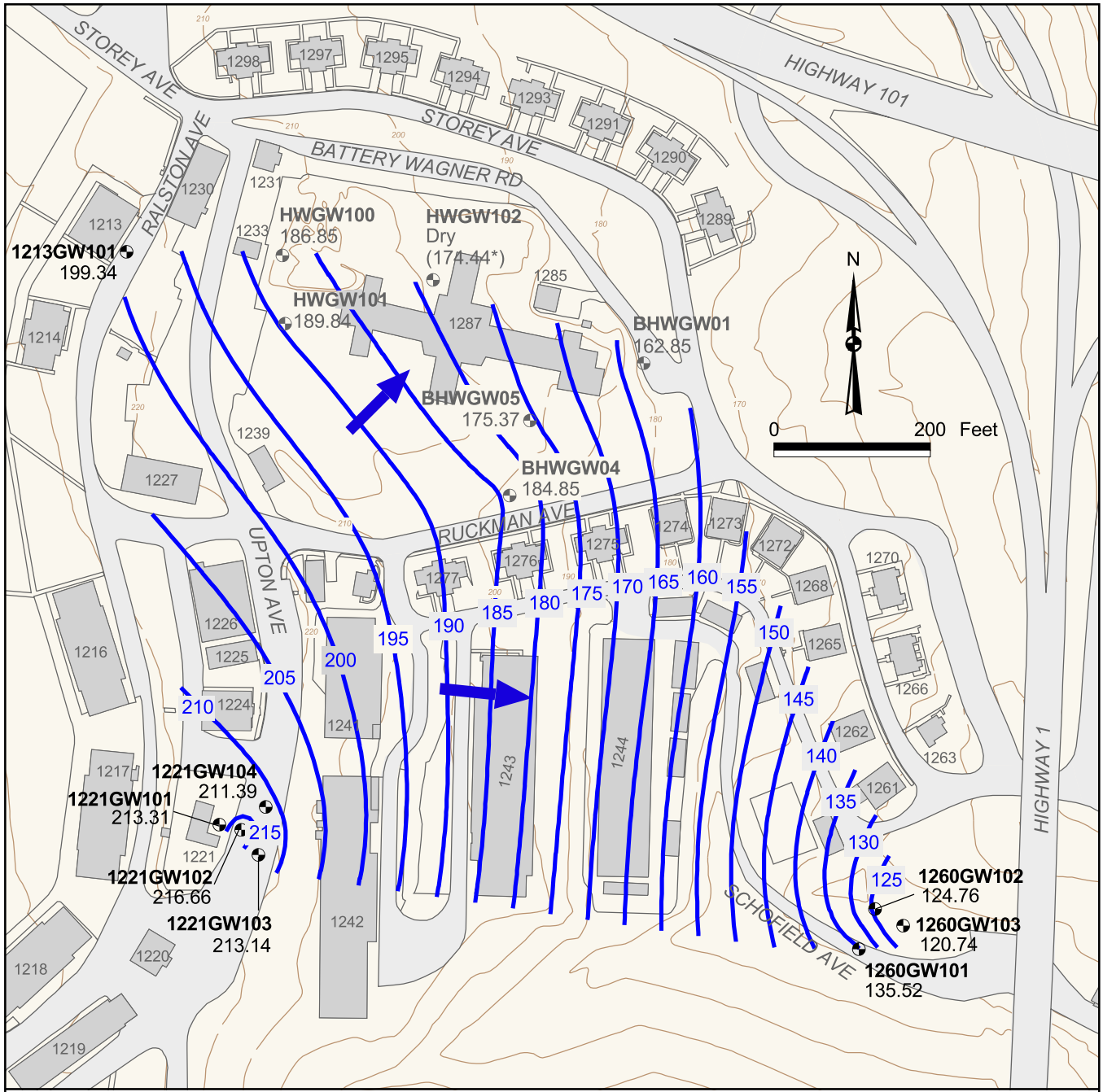
Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
	Analytical Method[1]	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**6**	**10**	**1,000**	**4**	**5**	**--**	**50**	**--**	**1,000**	**--**	**15**	**--**	**--**	**100**	**--**	**50**	**50**	**--**	**2**	**--**	**5,000**
1213GW101	05/24/06	< 100	< 1	6.3	10	< 2	< 1	19,000	54	< 10	< 1	< 100	< 3	72,000	< 10	< 20	2,600	< 5	< 1	340,000	< 1	< 10	< 20
DUP-05242006	05/24/06	< 100	< 1	5.8	11	< 2	< 1	19,000	23	< 10	< 1	< 100	< 3	71,000	29	< 20	2,500	< 5	< 1	300,000	< 1	< 10	21
1213GW101CL	05/24/06	< 100 U	< 2 U	6.1	17	< 1 U	< 1 U	21,100	44	< 1 U	3	< 100 U	< 1 U	80,800	18	4.7	< 5,000 U	2.1	< 1 U	341,000	< 1 U	< 10 U	< 20 U
	03/17/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP0317062A	03/17/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1221GW101	03/17/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/13/05	NA	NA	NA	NA	NA	< 5 NM	NA	< 10 NM	NA	NA	NA	< 3	NA	NA	< 20	NA	NA	NA	NA	NA	NA	< 20
1221GW102	03/17/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/13/05	NA	NA	NA	NA	NA	< 5 NM	NA	< 10	NA	NA	NA	< 3	NA	NA	< 20 NM	NA	NA	NA	NA	NA	NA	< 20
1221GW103	03/10/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/13/05	NA	NA	NA	NA	NA	< 5	NA	< 10 NM	NA	NA	NA	< 3	NA	NA	< 20 NM	NA	NA	NA	NA	NA	NA	< 20
DUP-5091205	09/13/05	NA	NA	NA	NA	NA	< 5 NM	NA	< 10	NA	NA	NA	< 3	NA	NA	< 20	NA	NA	NA	NA	NA	NA	< 20
1221GW104	05/24/06	< 100	< 1	< 5	11	< 2	< 1	63,000	< 10	< 10	< 1	< 100	< 3	94,000	28	< 20	2,400	< 5	< 1	70,000	< 1	< 10	< 20
	03/24/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/13/05	NA	NA	NA	NA	NA	< 5	NA	15 NM	NA	NA	NA	< 3	NA	NA	< 20	NA	NA	NA	NA	NA	NA	< 20
1260GW101	03/24/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/12/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1260GW102	03/09/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP0309063A	03/09/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1260GW102CL	03/09/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/12/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1260GW103	03/24/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/12/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP-6-091205	09/12/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
514AGW101	03/17/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/12/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP-1-091205	09/12/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FM14EX07GW101	03/17/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/12/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DUP-4-091205	09/12/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FM14EX07GW102	03/17/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/12/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001.
The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Cleanup levels taken from Table 7-6 in the *Development of Presidio-wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water* (EKI, 2002).
-- Cleanup level not established
Bold numbers indicate concentrations that exceed cleanup levels.
µg/L - micrograms per liter
Table 7 in the main report identifies all duplicate and split samples and the well from
Table 11 in the main report identifies current and historical data qualifiers.

Table A-12-4
Groundwater Elevation Summary
Mini-CAP Areas
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
FM14EX07GW101	05/22/06	23.21	183.43	160.22	MW
	03/06/06	23.90	183.43	159.53	MW
	11/28/05	27.79	183.43	155.64	MW
FM14EX07GW102	05/22/06	24.60	173.29	148.69	MW
	03/06/06	24.11	173.29	149.18	MW
	11/28/05	25.86	173.29	147.43	MW
1213GW101	05/22/06	18.34	221.35	203.01	MW
	03/06/06	22.01	221.35	199.34	MW
	11/28/05	29.27	221.35	192.08	MW
1221GW101	05/22/06	6.92	223.59	216.67	MW
	03/06/06	10.28	223.59	213.31	MW
	11/28/05	14.79	223.59	208.80	MW
1221GW102	05/22/06	7.86	223.46	215.60	MW
	03/06/06	6.80	223.46	216.66	MW
	11/28/05	8.89	223.46	214.57	MW
1221GW103	05/22/06	9.68	223.34	213.66	MW
	03/06/06	10.20	223.34	213.14	MW
	11/28/05	14.21	223.34	209.13	MW
1221GW104	05/22/06	12.47	223.39	210.92	MW
	03/06/06	12.00	223.39	211.39	MW
	11/28/05	16.52	223.39	206.87	MW
1260GW101	05/22/06	6.46	145.76	139.30	MW
	03/06/06	10.24	145.76	135.52	MW
	11/28/05	17.35	145.76	128.41	MW
1260GW102	05/22/06	19.49	145.91	126.42	MW
	03/06/06	21.15	145.91	124.76	MW
	11/28/05	26.47	145.91	119.44	MW
1260GW103	05/22/06	21.64	145.89	124.25	MW
	03/06/06	25.15	145.89	120.74	MW
	11/28/05	29.49	145.89	116.40	MW
514AGW101	05/22/06	20.09	201.34	181.25	MW
	03/06/06	20.23	201.34	181.11	MW
	11/28/05	21.46	201.34	179.88	MW

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
MW - Monitoring well
feet PLLW - feet above Presidio lower low water vertical datum



LEGEND

- Approximate Direction of Groundwater Flow
- Groundwater Contour (Contour Interval : 5 ft)
- Topographic Contour (Contour Interval : 10 ft)
- 1287 — Building and Number
- **1221GW101** 213.31 — Groundwater Monitoring Well March 2006 Groundwater Elevation
- **HWGW101** 189.84 — Adjacent Study Area Well March 2006 Groundwater Elevation
- (174.44*) — Value Indicates Bottom of Casing Elevation in Feet PLLW

Notes:
Groundwater elevation data collected on 6 March 2006.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

MINI-CAP AREA 1 SITE PLAN AND 6 MARCH 2006 GROUNDWATER ELEVATION MAP

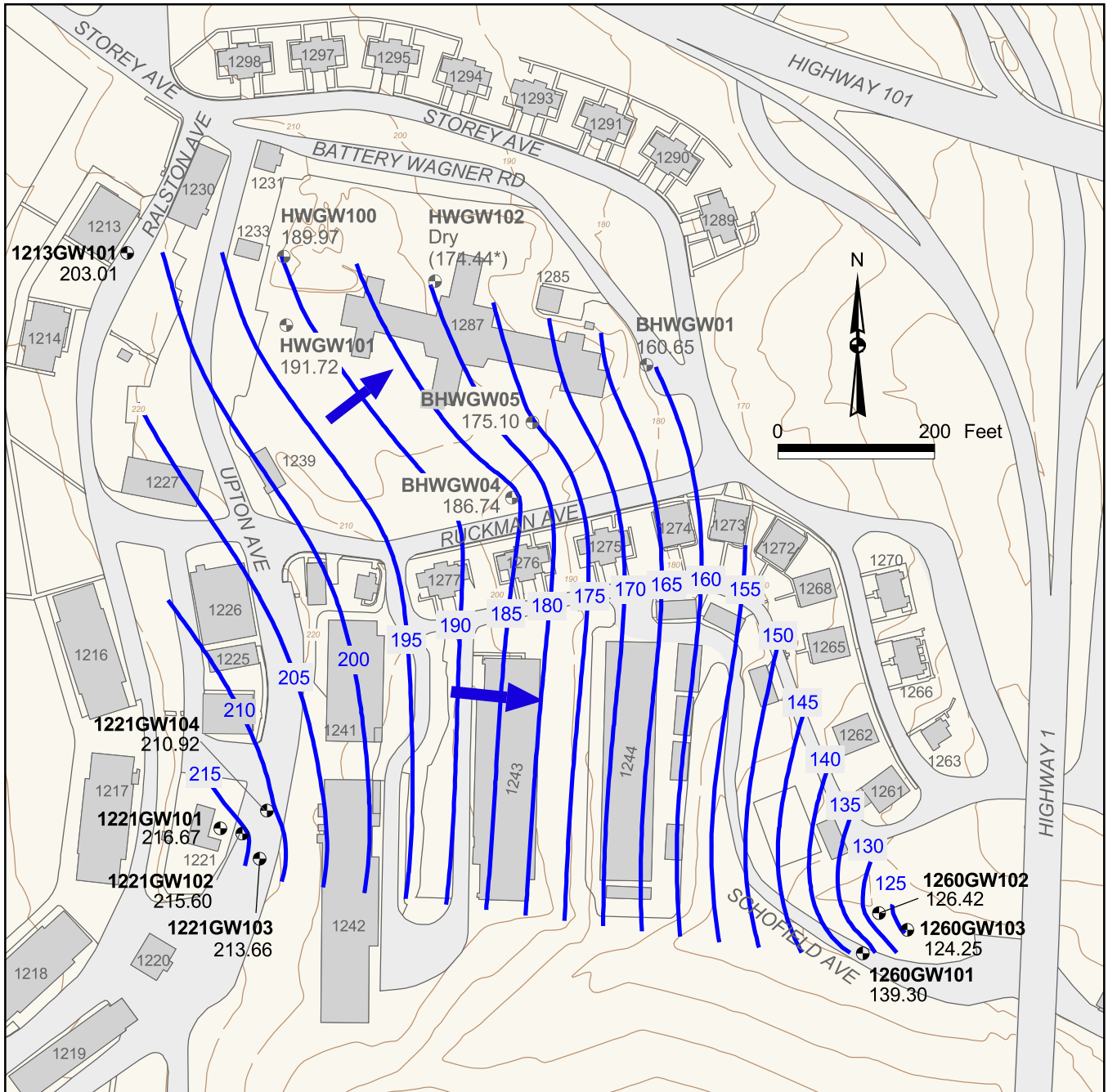
Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 561-5315
October 2006

FIGURE A-12-1

Treadwell & Rollo 2893_04\Q2_2006\A_04_A12.APR 10/2006



LEGEND

Approximate Direction of Groundwater Flow

Groundwater Contour (Contour Interval : 5 ft)

Topographic Contour (Contour Interval : 10 ft)

1287 Building and Number

1221GW101 213.31 — Groundwater Monitoring Well May 2006 Groundwater Elevation

HWGW101 189.84 — Adjacent Study Area Well May 2006 Groundwater Elevation

(174.44*) — Value Indicates Bottom of Casing Elevation in Feet PLLW

Notes:
Groundwater elevation data collected on 22 May 2006.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

MINI-CAP AREA 1 SITE PLAN AND 22 MAY 2006 GROUNDWATER ELEVATION MAP

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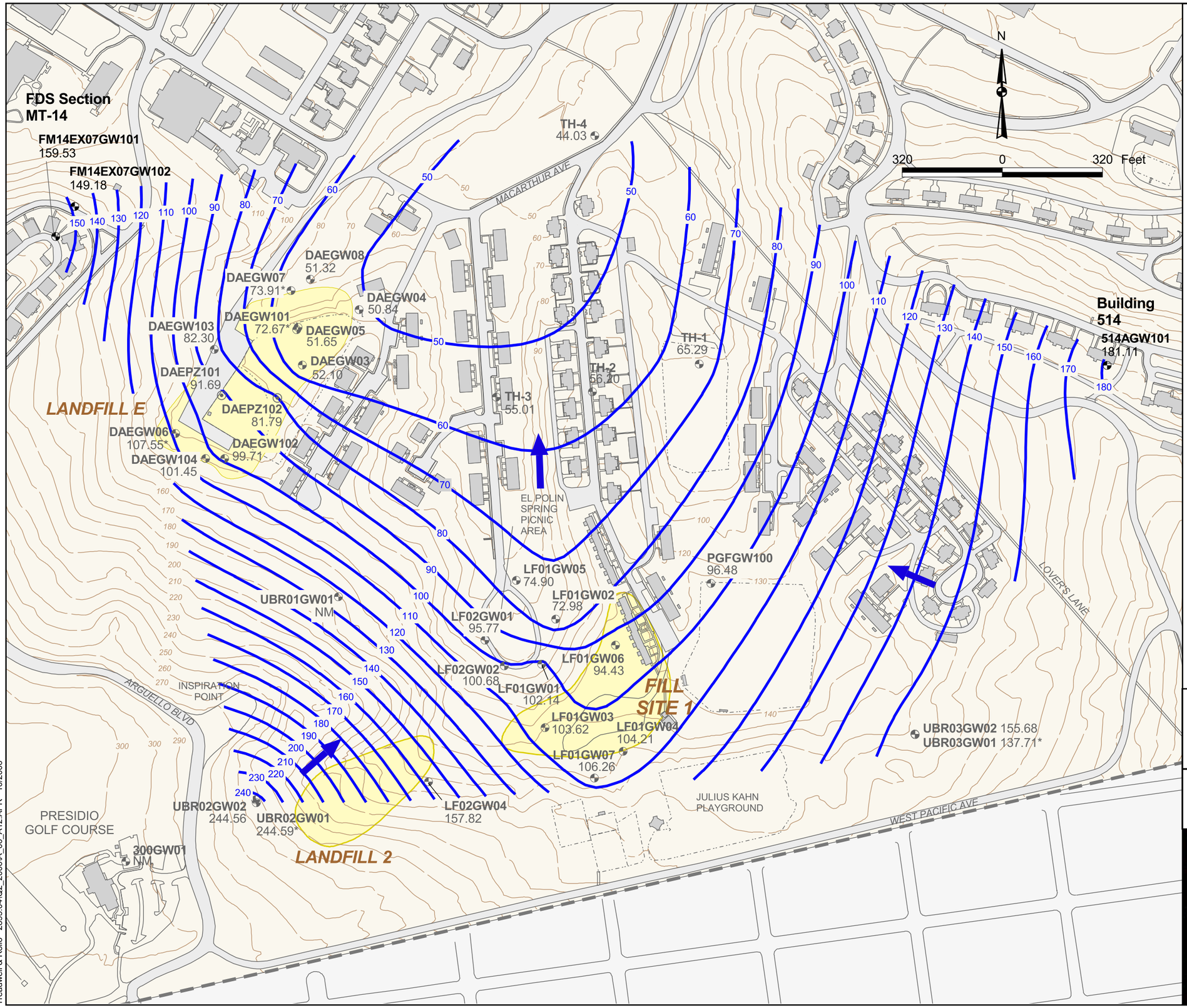
San Francisco, CA
94129-0052
415/561-5300
fax 561-5315
October 2006

FIGURE A-12-2



LEGEND

514AGW101 181.11	Groundwater Monitoring Well March 2006 Groundwater Elevation
DAEGW03 52.10	Adjacent Groundwater Monitoring Well March 2006 Groundwater Elevation
DAEPZ101 91.69	Adjacent Piezometer March 2006 Groundwater Elevation
*	Monitoring well not used for contouring.
NM	Not Measured
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval: 10 ft)
	Presidio Boundary
	Recreation Area
	Topographic Contour (Contour Interval: 10 ft)
	Approximate Lateral Extent of Landfill
	Building

Notes:
Groundwater elevation data collected on 6 March 2006.

Groundwater elevations for UBR02GW01 and UBR03GW01 were not used in groundwater contouring.

300GW01 was approved for removal from the groundwater monitoring program prior to the First Quarter 2006.

Landfill E wells DAEGW06 and DAEGW07 were not contoured, due to semi-confined and perched conditions, respectively. Whereas, well DAEGW101 was not contoured because it is screened in a deeper interval.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

MINI-CAP AREA 2 SITE PLAN AND 6 MARCH 2006 GROUNDWATER ELEVATION MAP

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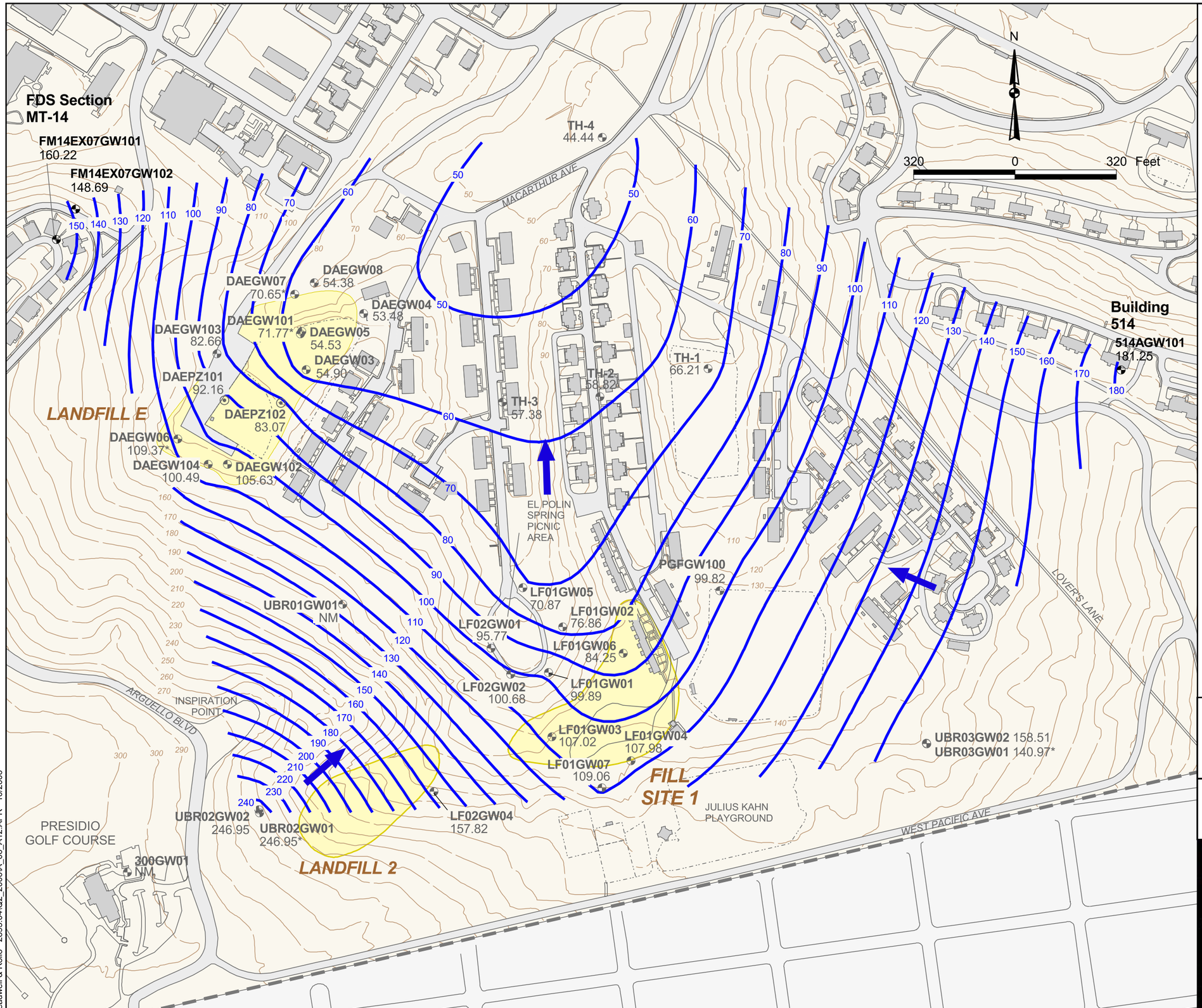
94129-0052
415/561-5300
fax 415/561-5315
October 2006

FIGURE A-12-3

Treadwell & Rollo 2893.04\Q2_2006\A_06_A12.APR 10/2006



LEGEND

514AGW101 181.25	Groundwater Monitoring Well May 2006 Groundwater Elevation
DAEGW03 54.90	Adjacent Groundwater Monitoring Well May 2006 Groundwater Elevation
DAEPZ101 92.16	Adjacent Piezometer May 2006 Groundwater Elevation
*	Monitoring well not used for contouring.
NM	Not Measured
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval: 10 ft)
	Presidio Boundary
	Recreation Area
	Topographic Contour (Contour Interval: 10 ft)
	Approximate Lateral Extent of Landfill
	Building

Notes:
Groundwater elevation data collected on 22 May 2006.

Groundwater elevations for UBR02GW01 and UBR03GW01 were not used in groundwater contouring.

300GW01 was approved for removal from the groundwater monitoring program prior to the First Quarter 2006.

Landfill E wells DAEGW06 and DAEGW07 were not contoured, due to semi-confined and perched conditions, respectively. Whereas, well DAEGW101 was not contoured because it is screened in a deeper interval.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW)
(topography) North American Vertical Datum, NAVD88

MINI-CAP AREA 2 SITE PLAN AND 22 MAY 2006 GROUNDWATER ELEVATION MAP

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San Francisco, CA
94129-0052
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fax 415/561-5315
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FIGURE A-12-4

Treadwell & Rollo 2893.04\Q2_2006\A_06_A12.APR 10/2006

First Quarter 2006

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Nike Fac. | Well No.: NKGW01

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: P. Cornish | Date: 3/20/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 48.39

Depth to Water (WL, ft. below TOC): 20.96

Depth to free phase (FP, ft. below TOC):

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type Disp

[ ] Normal [ ] Pump \ Type

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate .5 gpm | 9.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI Dometer

Time	/ Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND µS (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1010	/ init	6.79	15.1	pre. 0.23	748.1	–	9	clear
1013	/ 1.5	6.72	14.7	–	796.7	–	10	↓
1016	/ 3	6.67	14.7	–	825.6	–	17	↓
1019	/ 4.5	6.59	14.7	–	835.5	–	16	↓
	/			post. 0.91				
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							
	/							

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 3/20/06 / 1028

Purging Equipment: Pump - Type | Bailer - Type: Disp. | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
NKGW01	1x500ml Poly HNO_3	C&T	2055	
	6x40ml Vial HCl			
	1x1L Poly NaOH			
	1x1L Poly NP			
	3x1L Amber NP			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Nike Fac. | Well No.: NKGW02

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Carnish | Sampled by: P. Carnish | Date: 3/20/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 20.12

Depth to Water (WL, ft. below TOC): 10.22

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type Disp.

[ ] Normal [ ] Pump \ Type

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate 5gpm | 4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI DO meter

Time	/	Liters or ~~Gallons~~	pH	Temp °C °F	DO (mg/L)	Sp. COND µS ~~mS/cm~~	ORP (mV)	Turbidity (NTU)	Comments
8:42	/	initial	7.41	13.5	pre 5.54	420.6	–	10	clear
8:45	/	1.5	6.64	13.8	–	395.9	–	15	
8:48	/	3	6.46	14.0	–	391.9	–	14	
8:51	/	4.5	6.54	13.9	–		–	13	
	/				post 5.96	388.7			
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/20/06 / 900

Purging Equipment: Pump - Type | Bailer - Type Disp. | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
NKGW02	3x1L NP Amber	CET	2055	
	1x500ml HNO_3 Poly			
	6x40ml VOA HCl			
	1x500ml NaOH Poly			
	1x1L Poly NP			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Nike Facility
Well No.: NKGW03
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: P. Cornish
Sampled by: P. Cornish
Date: 3/10/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC):

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Normal [ ] Modified (max 5 gpm)
[ ] Bailer \ Type
[X] Pump \ Type: Peristaltic
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate: 200 ml/min

3000 ml gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 Flowcell

Time	Liters or Gallons (ml)	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments	DTW (ft)
1108	✓	7.68	13.66	4.83	0.293	-108.9	30	clear	12.92
1111	600	7.40	13.76	4.71	0.270	-119.8	12	"	12.93
1113	1200	7.51	13.59	5.00	0.259	-131.5	10	"	12.95
1116	1800	7.68	13.50	5.37	0.255	-137.4	6	"	12.98
1119	2400	7.68	13.40	5.47	0.238	-135.9	8	"	13.02
1122	3000	7.55	13.40	5.39	0.229	-130.1	8	"	13.04

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other: onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/10/06 / 1130

Purging Equipment: Pump - Type: Peristaltic Bailer - Type: Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
NKGW03	6x40ml 40ml HCl	CET	2033	
	2x1L poly-1N NaOH			
	1x500ml poly-HNO3			
	3x1L Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Nike Fac. | Well No.: NKGW04

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: P. Cornish | Date: 3/20/00

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 20.11

Depth to Water (WL, ft. below TOC): 5.90

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: .5 gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI Dometer

Time	/	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND NS (~~mS/cm~~)	ORP (mV)	Turbidity (NTU)	Comments
1105	/	init.	12.3	7.09	pre 4.88	591.2	-	271	cloudy
1108	/	1.5	6.89	13.5	-	463.6	-	298	
1111	/	3.0	6.94	13.7	-	439.4	-	346	
1114	/	4.5	6.95	13.9	-	430.8	-	579	
	/				post 3.13				
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other ~~Disp.~~ onsite tank

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 3/20/00 / 1122

Purging Equipment: Pump - Type: Bailer - Type: Disp. Other: 2055

Sample Filtered: (Yes) No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
NKGW04	2x1L NaOH Poly	CET	2055	Dup. 1A
Dup03200001A @ 1132	2x500ml HNO3 Poly			
	2x1L NP Poly			
	6x1L NP Amber			

QUALITY CONTROL SAMPLES 12x40ml HCl VOA

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Nike Fac. | Well No.: NKGW05

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: P. Cornish | Date: 2/20/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 53.21

Depth to Water (WL, ft. below TOC): 19.45

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type Disp.

[ ] Normal [ ] Pump \ Type

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate .5 gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI DO meter

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND mS ~~mS/cm~~	ORP (mV)	Turbidity (NTU)	Comments
920	/	init.	6.85	14.7	pre 0.50	495.6	–	7	clear
923	/	1.5	6.72	15.2	–	594.8	–	10	
928	/	3	6.73	15.3	–	655.5	–	10	
929	/	4.5	6.70	15.5	–	677.2	–	15	
	/				post 0.76				
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 3/20/06 / 938

Purging Equipment: Pump - Type | Bailer - Type Disp. | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
NKGW05	3 x 1L NP Amber	CQT	3055	
	1 x 500ml Poly HNO3			
	6 x 40ml Voa HCl			
	1 x 1L NaOH Poly			
	1 x 1L NP Poly			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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NIKE MISSILE FACILITY
APPENDIX SECTION A-13
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2006
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

The Nike Missile Facility is located in the southwest portion of the Presidio (Figure 1) and consists of two terraced areas: the Building 1450/1451 area and the Silo/Magazine area (Dames & Moore, 1997). The Building 1450/1451 area is located on the northern, upland portion of the site. The Silo/Magazine area consists of three abandoned underground missile silos located southeast and downhill from the Building 1450/1451 area. Silo/Magazine #1 is on the middle terrace, and Silo/Magazines #2 and #3 are south of Silo/Magazine #1 (Figure A-13-1).

The Nike Missile Facility opened in 1956 and was taken out of service in 1965. Building 1450 functioned as the missile-launch room, the missile-battery maintenance area, an administration office, and living quarters. Building 1451 was used as an operational support and maintenance facility for the Nike Missile Facility. Hydraulic oil, hydraulic oil storage tanks, hydraulic oil equipment, standing water, and debris (including damaged asbestos-containing material, deteriorated lead-based paint, hydrocarbon-affected soil, sludge, and miscellaneous debris) associated with the three missile silos were removed by the International Technology Corporation (IT) between December 1998 and February 1999. In addition to the removal of these hazardous materials, all mechanisms left in place within the silo/magazines were power-washed. The recovered materials and debris were classified and appropriately disposed (IT, 1999).

Since September 1992, monitoring wells at the Nike Missile Facility site have been analyzed for TPH, PAHs, cyanide, VOCs, and dissolved metals. Analytical results summaries are presented in Tables A-13-1 through A-13-4.

During the First Quarter 2004, perchlorate and N-nitrosodimethylamine (NDMA) analyses were performed within all Nike Missile Facility monitoring wells as part of the Trust's Emergent Chemical Study, requested by the RWQCB. The results of the Emergent Chemical Study were detailed in the *Draft Technical Report: Emergent Chemical Study, First Quarter 2004* (Treadwell & Rollo, 2004b) and are briefly summarized in Section 3.0 below.

2.0 SITE DESCRIPTION AND GEOLOGY

The Nike Missile Facility is located in the Lobos Creek Groundwater Basin (Figure 1). Groundwater at the site is generally present between 10 and 40 feet bgs. Groundwater flow at the Nike Missile Facility is reported to follow the general topographic trend towards the south-southeast (Montgomery Watson, 1997a).

Soils beneath the Nike Missile Facility consist of engineered fill, dune sand, fine-grained deposits of the Colma Formation, and Franciscan Complex bedrock. Engineered fill was imported and graded for construction in the 1950s. Engineered fill is present at the surface and to depths ranging from 10 to 24.5 feet bgs. Beneath the fill, either dune sand or the Colma Formation is present to depths of 20 feet bgs in the northern portion of the site and 42 feet in the south. The Colma Formation is underlain by serpentinite bedrock (Montgomery Watson, 1997a).

3.0 EMERGENT CHEMICAL STUDY

The Trust, at the request of the RWQCB, identified potential source areas for emergent chemical releases and developed a groundwater monitoring plan to address potential source areas at the Presidio. The sampling program was requested by the RWQCB in a letter to the Trust dated 23 June 2003. The emergent chemical groundwater sampling program was developed to determine if past uses at the Presidio resulted in groundwater contamination associated with emergent chemicals identified as perchlorate, NDMA, 1,4-dioxane, 1,2,3-trichloropropane (TCP), hexavalent chromium, and polybrominated diphenyl ether (PBDE).

The Trust transmitted the results of their source area evaluation in a letter to the RWQCB, entitled *Preliminary Evaluation of Potential Emergent Chemical Use Areas and Locations at the Presidio of San Francisco (*Source Evaluation Report), dated 25 November 2003. The potential emergent chemical source areas were evaluated by the Trust considering the following information: 1) the existing environmental data currently contained within the Trust's database; 2) the potential for an emergent chemical or a material containing an emergent chemical to have been used and released in a significant quantity at the Presidio; and, 3) locations of sensitive groundwater use areas at the Presidio (Trust, 2003).

Based on the Source Evaluation Report, a follow up groundwater monitoring program concerning potential releases of emergent chemicals at the Presidio was implemented during the First Quarter 2004. NDMA was the only emergent chemical detected above laboratory detection limits during the First Quarter 2004. 1,4-dioxane, perchlorate, and PBDE were not detected above laboratory detection limits within any samples analyzed during the First Quarter 2004 (Treadwell & Rollo, 2004b).

NDMA is a decomposition product of Aerozine 50, a component used in the production of rocket fuel. NDMA has contaminated surface and groundwater at missile and other rocket fuel sites.

NDMA has also been formed through other industrial processes, such as the chlorination of drinking water and the treatment of sewage for wastewater recycling. NDMA is considered by health experts to be a carcinogen (RWQCB, 2003).

The following remedial goals and action levels for NDMA have been established.

- The EPA's Preliminary Remedial Goal (PRG) for tap water is 0.0013 µg/L.
- The California Department of Health Services (CDHS) notification level (formerly action level) for NDMA is 0.01 µg/L.

The Source Evaluation Report identifies the Nike Missile Facility and former Army explosive testing areas as potential NDMA source areas. All Nike Missile Facility monitoring wells had samples collected and analyzed for NDMA during the First Quarter 2004. The discussion below relates to the NDMA sampling which took place during the First Quarter 2004 at the Nike Missile Facility.

Groundwater samples collected from monitoring wells NKGW01 through NKGW05 were analyzed for NDMA by EPA Method 1625 during the First Quarter 2004. NDMA analysis was also completed on the duplicate sample (DUP0317042A) collected from NKGW01.

In 2004, NDMA was detected at concentrations of 0.0048, 0.0016J, 0.0025, and 0.0009J µg/L within NKGW01, DUP0317042A, NKGW04 and NKGW05, respectively. The detected concentrations below the practical quantitation limit of 0.002 µg/L and above the method detection limit of 0.0005 µg/L were estimated and therefore qualified with a 'J'. The Relative Percent Difference (RPD) between the primary and the duplicate samples collected from NKGW01 exceeds the 50% criteria specified in the *Presidio-wide Quality Assurance Project Plan Sampling and Analysis Plan* (QAPP) (Tetra Tech, 2001). However, the data was considered usable and did not require qualification by DataVal, as described in the First Quarter 2004 DataVal report. NDMA was not detected in NKGW02 or NKGW03 samples above laboratory detection limits during the First Quarter 2004. Detection limits and detected concentrations were well below the CDHS action level of 0.01 µg/L. However, the detected concentrations of NDMA within NKGW01 and NKGW04 in the First Quarter 2004 exceeded the EPA's Region 9 Tap Water PRG (0.0013 µg/L).

NDMA was sampled within all Nike Missile Facility monitoring wells during the Third Quarter 2004 and will continue to be sampled within all Nike Missile Facility monitoring wells during the first and third quarters to establish a baseline of data. A *Remedial Action Plan* (RAP) is currently being prepared for the Nike Missile Facility and a revised groundwater monitoring plan will be implemented at the Nike Missile Facility, in accordance with the RAP when it is approved by the RWQCB and other stakeholders (Treadwell & Rollo, 2004b).

4.0 GROUNDWATER MONITORING

The Nike Missile Facility has five associated monitoring wells (Figure A-13-1). Groundwater elevations were collected at all site wells during the First Quarter 2006 and four of the five site wells in the Second Quarter 2006. Groundwater samples were collected at all Nike Missile Facility monitoring wells during the First Quarter 2006 and analyzed for MTBE, VOCs, cyanide, dissolved oxygen, NDMA, TPHg, TPHd, TPHfo, and 23 dissolved metals, in accordance with the proposed sampling schedule (Table 1A). No groundwater samples were scheduled for collection during the Second Quarter 2006, in accordance with the proposed sampling schedule (Table 1B).

4.1 Groundwater-Level Measurements and Interpretation

Groundwater elevation measurements were collected on 06 March and 22 May 2006. Groundwater elevations are presented in Table A-13-5. Groundwater elevation maps showing groundwater contours and flow directions for the Nike Missile Facility are included as Figures A-13-1 and A-13-2. Water level meter calibration logs can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C.

Groundwater elevations at the Nike Missile Facility during the First Quarter 2006 ranged from 251.58 to 320.75 feet above PLLW in monitoring wells NKGW01 and NKGW03, respectively (Figure A-13-1). Groundwater elevations at the Nike Missile Facility during the Second Quarter 2006 ranged from 252.17 to 320.70 feet above PLLW in monitoring wells NKGW01 and NKGW03, respectively (Figure A-13-2). The groundwater elevations are consistent with historical elevations measured at the site.

During the First and Second Quarters 2006, groundwater flow was in a south-southeasterly direction following the general topographic trend. The groundwater gradient was estimated to be approximately 0.10 feet per foot during both the First and Second Quarters 2006.

4.2 Monitoring Well Purging and Sampling

During the First Quarter 2006, all Nike Missile Facility monitoring wells were purged and sampled on either 10 or 20 March 2006, in accordance with methods shown in Table 1A and procedures described in the FSP (Treadwell & Rollo, 2001a). In addition to the primary samples collected during the First Quarter 2006, a duplicate sample (DUP0320061A) also was collected from monitoring well NKGW04. No Nike Missile Facility monitoring wells were proposed for sampling during the Second Quarter 2006.

Purging equipment, purging volumes, purge water parameters, and sampling equipment for each monitoring well are described in the purge records at the conclusion of this section. Purge water was stored for future disposal in one of two 2,800-gallon aboveground polyethylene storage tanks, which are located at the Central Magazine.

4.3 Groundwater Analytical Program

All groundwater samples were submitted to the project laboratory for the analyses shown in Tables 1A and 1B of the main text. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are shown in Table 5. Sample containers used for each well are described in the purge records located at the conclusion of this section.

QA/QC samples were collected as part of this program. Section 6.2 of the main text discusses the QA/QC sampling and analysis performed for the First and Second Quarters 2005.

5.0 GROUNDWATER ANALYTICAL RESULTS

Groundwater samples collected from Nike Missile Facility monitoring wells during the First Quarter 2006 were analyzed for dissolved oxygen, cyanide, MTBE, VOCs, cyanide, dissolved oxygen, NDMA, TPHg, TPHd, TPHfo, and 23 dissolved metals. The TPHfo standard currently being used is a TPHmo standard, as defined by the Presidio QAPP, with a carbon range of C_{24} to C_{36}. Section 5.4.3.1 in the main report discusses the data compatibility issues associated with TPH analyses.

The following sections discuss detected analytes.

5.1 Dissolved Oxygen and Cyanide Results

Dissolved oxygen and cyanide concentrations are presented in Table A-13-1. During the First Quarter 2006, dissolved oxygen concentrations within Nike Missile Facility monitoring wells ranged from 0.91 mg/L to 5.95 mg/L at NKGW01 and NKGW02, respectively. These concentrations were within historical ranges.

Cyanide was detected at a new high concentration of 0.01 mg/L within monitoring well NKGW05, during the First Quarter 2006. This concentration equals the laboratory reporting limit of <0.01 mg/L and is significantly lower than the drinking water cleanup level of 200 mg/L for cyanide, as listed in the Cleanup Levels Document (EKI, 2002). Cyanide has only been detected at NKGW05 and only once previously at 0.00628 µg/L in 1995.

5.2 NDMA

All Nike Missile Facility groundwater samples collected were analyzed for NDMA during the First Quarter 2006. NDMA results are presented in Table A-13-1. NDMA was detected in three of the five groundwater samples collected from Nike Missile Facility monitoring wells at concentrations ranging from 0.003 to 0.0019 µg/L in the primary and duplicate samples collected from monitoring well NKGW04 to 0.0045 µg/L in the sample collected from monitoring well NKGW01. NDMA was not detected above laboratory reporting limits in monitoring wells NKGW02 and NKGW03. All detected concentrations of NDMA exceed the EPA's Preliminary

Remedial Goal (PRG) for tap water of 0.0013 µg/L, but none of the detected results exceed the CDHS action level of 0.01 µg/L.

5.3 TPH

All Nike Missile Facility groundwater samples collected were analyzed for TPHg, TPHd, and TPHfo during the First Quarter 2006. TPH was not detected in any of the samples collected from the site during the First Quarter 2006. TPH results are presented in Table A-13-2. TPH was last detected at the Nike Missile Facility at monitoring well NKGW01 in the First Quarter 1999 (TPHd at 65 mg/L).

5.4 VOC and MTBE Results

All Nike Missile Facility groundwater samples collected were analyzed for VOCs and MTBE during the First Quarter 2006. No VOCs or MTBE were detected in any of the samples collected within Nike Missile Facility monitoring well samples during the First Quarter 2006 or in the First Quarters of 2004 and 2005. VOCs and MTBE analytical results are presented in Table A-13-3. MTBE has never been detected in groundwater at this site. Only benzene and toluene have been detected but sporadically and at low concentrations and were last detected in the First Quarter 2003.

5.5 Dissolved Metals

All Nike Missile Facility groundwater samples collected were analyzed for dissolved metals during the First Quarter 2006. Dissolved metals results are presented in Table A-13-4.

The table below summarizes new high and low dissolved metal results for the First Quarter 2006 when compared to historical data, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date of commencement of sampling, and on the number of duplicated analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Metals, Dissolved							
NKGW01	Nickel	17 / 17	49	96.5	39	--	µg/L
NKGW02	Total Dissolved Solids	6 / 6	220	320	--	330	mg/L
NKGW03	Potassium	2 / 7	<500	620	--	1,000	µg/L
NKGW04	Cadmium	4 / 14	< 0.5	2.3	--	18	µg/L
	Copper	7 / 14	<1	2.2	--	2.6	µg/L
	Magnesium	14 / 14	26,000	47,200	21,000	--	µg/L
	Potassium	7 / 14	<5,000	980	--	1,500	µg/L
	Sodium	14 / 14	33,000	52,000 *	23,000	--	µg/L
	Total Dissolved Solids	7 / 7	240	360	--	760	mg/L

Location	Analyte	Detects / Samples	Historical Data		New High/Low First Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Metals, Dissolved							
NKGW04	Zinc	6 / 14	< 20	220	--	950	µg/L
NKGW05	Cadmium	2 / 14	< 0.5	1.1	--	1.6	µg/L
	Total Dissolved Solids	6 / 6	320	430	--	1,030	mg/L

Qualified data in the table above is indicated with an asterisk (*).

The majority of the metals concentrations measured during the First Quarter 2006 are within historical ranges. Significant new high and low dissolved and total metals results are discussed below.

- During the First Quarter 2006, dissolved cadmium was detected at a new high concentration of 18 µg/L within monitoring well NKGW04. This concentration is nearly seven times the previous high concentration for this well.

- Dissolved zinc was detected at new high concentrations of 860 to 950 µg/L within the primary and duplicate samples from monitoring well NKGW04 which are approximately four times higher than the previous high concentrations.

The remaining new high and low concentrations from the First Quarter 2006 can be attributed to natural fluctuations and are not considered significant.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Groundwater elevations, gradients, and flow directions during the First and Second Quarters 2006 are consistent with historical values and interpretations. NDMA was detected above laboratory limits within three of the five Nike Missile Facility monitoring wells sampled during the First Quarter 2006. All detected concentrations of NDMA exceed the EPA's Preliminary Remedial Goal (PRG) for tap water of 0.0013 µg/L, but none of the detected results exceed the CDHS notification level of 0.01 µg/L.

NDMA will continue to be sampled within all Nike Missile Facility monitoring wells during the first and third quarter sampling events to establish a baseline of data. The addition of field QC blanks for NDMA will be added to this program in the First Quarter 2007 in order to comply with the QAPP and guard against unknown field contamination of the sample. A RAP is currently being prepared for the Nike Missile Facility and a revised groundwater monitoring plan will be implemented, in accordance with the RAP, when it is approved by the DTSC, RWQCB, and other stakeholders. There are no other proposed changes to the groundwater monitoring program at this site.

Table A-13-1
Summary of Cyanide and NDMA Analyses and Dissolved Oxygen Measurement Results
Nike Missile Facility
Presidio of San Francisco, California

Well Name	Sample Date	Dissolved Oxygen	Cyanide	NDMA
	Analytical Method[1]	Field	SW9012	E1625
		(mg/L)	(mg/L)	(µg/L)
NKGW01	03/20/06	0.91	< 0.01	0.0045
	09/01/05	1.1	NA	0.005 J
	03/16/05	0.5	< 0.01	0.005
DUP0031605A	03/16/05	--	< 0.01	0.005
	08/13/04	0.50	NA	0.0007
DUP0813042A	08/13/04	--	NA	0.0009
	03/17/04	0.52	< 0.01	0.0048
DUP0317042A	03/17/04	--	< 0.01	0.0016 J
NKGW01CL	03/17/04	--	NA	NA
	03/18/03	0.7	< 0.01	NA
	03/12/02	1	< 0.01	NA
	05/17/01	3.4	< 0.01	NA
	02/24/99	0.55	< 0.01	NA
	08/18/98	0.79	< 0.01	NA
	01/20/98	0.61	< 0.01	NA
	11/14/97	0.69	NA	NA
	08/13/97	0.16	< 0.01	NA
	05/19/97	1.5	< 0.01	NA
	02/17/97	1.62	NA	NA
NKGW02	03/20/06	5.95	< 0.01	< 0.002
	09/01/05	1	NA	< 0.002
	03/16/05	0.6	< 0.01	0.005
	08/13/04	0.60	NS	NS
	03/17/04	4.72	< 0.01	< 0.002
	03/18/03	5.7	< 0.01	NA
	03/12/02	5	< 0.01	NA
	05/16/01	5.7	< 0.01	NA
	02/23/99	7.9	< 0.01	NA
	01/21/98	9.32	< 0.01	NA
	05/20/97	1.28	< 0.01	NA
	02/18/97	6.32	NA	NA
	04/05/95	NM	< 0.004	NA
NKGW03	03/10/06	5.39	< 0.01	< 0.002
	03/18/05	2.8	< 0.01	0.0024
	08/13/04	2.80	NS	NS
	03/17/04	3.1	< 0.01	< 0.002
	03/14/03	NM	NS	NS
	03/12/02	2.1	< 0.01	NA
	05/16/01	NM	NS	NS
	02/23/99	NM	< 0.01	NA
	02/23/99	9.14	NA	NA
	04/16/98	10.88 (J25)	NA	NA
	01/20/98	8.02 (J25)	< 0.01	NA
	02/18/97	9.14	NA	NA
	04/06/95	NM	< 0.004	NA

Table A-13-1
Summary of Cyanide and NDMA Analyses and Dissolved Oxygen Measurement Results
Nike Missile Facility
Presidio of San Francisco, California

Well Name	Sample Date	Dissolved Oxygen	Cyanide	NDMA
	Analytical Method[1]	Field	SW9012	E1625
		(mg/L)	(mg/L)	(µg/L)
NKGW04	03/20/06	3.13	< 0.01	0.003
DUP0320061A	03/20/06	--	< 0.01	0.0019
	09/01/05	0.6	NA	0.0013 J
DUP0901052A	09/01/05	--	NA	0.0012 J
	03/16/05	0.6	< 0.01	0.004
	08/13/04	0.60	NA	0.0009
	03/17/04	0.87	< 0.01	0.0025
	03/18/03	5.8	< 0.01	NA
	03/12/02	3.2	< 0.01	NA
	05/17/01	1.6	< 0.01	NA
	02/22/99	2.95	< 0.01	NA
	01/20/98	0.76	< 0.01	NA
	11/13/97	0.7	< 0.01	NA
	08/13/97	0.7	< 0.01	NA
	05/19/97	0.49	< 0.01	NA
	02/17/97	1.12	NA	NA
	04/05/95	NM	< 0.004	NA
NKGW05	03/20/06	0.76	0.01	0.0032
	09/01/05	0.9	NA	0.005 J
	03/16/05	0.8	< 0.01	0.0036
	08/13/04	0.80	NA	0.001
	03/17/04	0.1	< 0.01	0.0009 J
	03/18/03	5.1	< 0.01	NA
	03/12/02	1	< 0.01	NA
	05/17/01	1.4	< 0.01	NA
	02/22/99	0.86	< 0.01	NA
	01/21/98	0.28	< 0.01	NA
	11/14/97	0.4	NA	NA
	05/19/97	0.56	< 0.01	NA
	02/17/97	1.85	NA	NA
	04/05/95	NM	0.00628	NA

Notes
1 - The identified analytical method is for samples performed beginning the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
µg/L - micrograms per liter
mg/L - milligrams per liter
NA - Not analyzed
NM - Not measured
NS - Not sampled
NDMA - N-nitrosodimethylamine
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-13-2
Results of TPH Analyses
Nike Missile Facility
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
NKGW01	03/20/06	< 50	< 50	< 300
	03/16/05	< 50	< 50	< 300
DUP0031605A	03/16/05	< 50	< 50	< 300
	03/17/04	< 50	< 50	< 300
DUP0317042A	03/17/04	< 50	< 50	< 300
NKGW01CL	03/17/04	< 50	< 48	< 240
	03/18/03	< 50	< 50	< 300
	03/12/02	< 50	< 50	< 300
	05/17/01	< 50	< 50	< 300
	02/24/99	< 50	65 (J25)	< 300
	01/20/98	< 50	< 50	< 300
	11/14/97	< 50	< 50	< 300
	05/19/97	< 50	240 (J25)	< 300
	02/17/97	< 50	< 50	< 300
	12/11/96	< 50	< 50	< 300
	09/03/96	< 50	51 (J25)	< 300
	06/05/96	< 50	< 50	< 300
	03/20/96	< 50	< 50	< 300 (U6)
	11/30/95	< 50	< 50	< 300
	09/21/95	< 50	68 (J25)	< 300
	11/10/94	< 50	NA	NA
NKGW02	03/20/06	< 50	< 50	< 300
	03/16/05	< 50	< 50	< 300
	03/17/04	< 50	< 50	< 300
	03/18/03	< 50	< 50	< 300
	03/12/02	< 50	< 50	< 300
	05/16/01	<50	<50	<300
	02/23/99	< 50	< 50 (U13)	< 300
	01/21/98	< 50	< 50	< 300
	11/14/97	< 50	< 50	< 300
	02/18/97	< 50 (U15)	< 50	< 300
	06/05/96	< 50	< 50	< 300
	03/19/96	< 50	< 50	< 300 (U6)
	09/22/95	< 50	< 50	< 300
	04/05/95	< 10	NA	NA
NKGW03	03/10/06	< 50	< 50	< 300
	03/18/05	< 50	< 50	< 300
	03/17/04	< 50	< 50	< 300
	03/12/02	< 50	< 50	< 300
	05/16/01	NS	NS	NS
	02/23/99	< 50	< 50 (U13)	< 300
	01/20/98	< 50	< 50	< 300
	02/18/97	< 50 (U15)	< 50	< 300
	04/06/95	11	NA	NA

Table A-13-2
Results of TPH Analyses
Nike Missile Facility
Presidio of San Francisco, California

Well Name	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
NKGW04	03/20/06	< 50	< 50	< 300
DUP0320061A	03/20/06	< 50	< 50	< 300
	03/16/05	< 50	< 50	< 300
	03/17/04	< 50	< 52	< 310
	03/18/03	< 50	< 50	< 300
	03/12/02	< 50	< 50	< 300
	05/17/01	< 50	< 50	< 300
	02/22/99	< 50	< 50 (U13)	< 300
	01/20/98	< 50	< 50	< 300
	11/13/97	< 50	< 50	< 300
	08/13/97	360 (J32)	< 50	< 300
	05/19/97	< 50	130 (J32)	< 300
	02/17/97	< 50	< 50	< 300
	12/11/96	< 50	< 50	< 300
	11/30/95	< 50	< 50	< 300
	04/05/95	< 10	NA	NA
NKGW05	03/20/06	< 50	< 50	< 300
	03/16/05	< 50	< 50	< 300
	03/17/04	< 50	< 50	< 300
	03/18/03	< 50	< 50	< 300
	03/12/02	< 50	< 50	< 300
	05/17/01	<50	< 50	< 300
	02/22/99	< 50	< 50 (U10, U13)	< 300
	01/21/98	< 50	< 50	< 300
	11/14/97	< 50	< 50	< 300
	05/19/97	< 50	110 (J32)	< 300
	02/17/97	< 50	< 50	< 300
	12/11/96	< 50	< 50	< 300
	09/03/96	< 50	< 50	< 300
	06/05/96	< 50	< 50	< 300
	03/20/96	< 50	< 50	< 300 (U6)
	11/30/95	< 50	< 50	< 300
	09/22/95	< 50	< 50	< 300
	04/05/95	< 10	NA	NA

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001.
The analytical methods used during previous quarters are identified in the respective quarterly reports.
µg/L - micrograms per liter
NA - Not analyzed
TPH - Total petroleum hydrocarbons
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-13-3
Results of VOC Analyses
Nike Missile Facility
Presidio of San Francisco, California

Well Name	Sample Date	Benzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
NKGW01	03/20/06	< 0.5	< 0.5	< 0.5	< 1	ND
	03/16/05	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0031605A	03/16/05	< 0.5	< 0.5	< 0.5	< 1	ND
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0317042A	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	ND
NKGW01CL	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/12/02	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/17/01	< 0.5	< 0.5 UJ	< 0.5	NA	ND
	02/24/99	< 0.5	NA	< 0.5	< 0.5	ND
	08/18/98	NA	NA	NA	NA	NA
	01/20/98	< 0.5	NA	< 0.5	< 0.5	ND
	08/13/97	NA	NA	NA	NA	NA
	05/19/97	< 0.5	NA	12	< 0.5	ND
	02/17/97	< 0.5	NA	< 0.5	< 0.5	ND
	12/11/96	< 0.5	NA	< 0.5	< 0.5	ND
	09/03/96	< 0.5	NA	2.4	< 0.5	ND
	06/05/96	< 0.5	NA	< 0.5	< 0.5	ND
	03/20/96	< 0.5	NA	< 0.5	< 0.5	ND
	11/30/95	< 0.5	NA	< 0.5	< 0.5	ND
	09/21/95	< 0.5	NA	< 0.5	< 0.5	ND
	01/09/95	NA	NA	NA	NA	NA
NKGW02	03/20/06	< 0.5	< 0.5	< 0.5	< 1	ND
	03/16/05	< 0.5	< 0.5	< 0.5	< 1	ND
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/18/03	0.3 J	< 0.5	< 0.5	< 0.5	ND
	03/12/02	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/16/01	< 0.5	< 0.5 UJ	< 0.5	NA	ND
	02/23/99	NA	NA	NA	NA	NA
	01/21/98	NA	NA	NA	NA	NA
	05/20/97	NA	NA	NA	NA	NA
	02/18/97	< 0.5	NA	< 0.5	< 0.5	ND
	06/05/96	< 0.5	NA	< 0.5	< 0.5	ND
	03/19/96	< 0.5	NA	< 0.5	< 0.5	ND
	09/22/95	< 0.5	NA	< 0.87	< 0.5	ND
	04/05/95	NA	NA	NA	NA	NA
NKGW03	03/10/06	< 0.5	< 0.5	< 0.5	< 1	ND
	03/18/05	< 0.5	< 0.5	< 0.5	< 1	ND
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/12/02	< 0.5	< 0.5	< 0.5	< 0.5	ND
	02/23/99	< 0.5	NA	< 0.5	< 0.5	ND
	01/20/98	< 0.5	NA	< 0.5	< 0.5	ND
	02/18/97	< 0.5	NA	< 0.5	< 0.5	ND
	04/06/95	NA	NA	NA	NA	NA
NKGW04	03/20/06	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0320061A	03/20/06	< 0.5	< 0.5	< 0.5	< 1	ND
	03/16/05	< 0.5	< 0.5	< 0.5	< 1	ND
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	ND

Table A-13-3
Results of VOC Analyses
Nike Missile Facility
Presidio of San Francisco, California

Well Name	Sample Date	Benzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
NKGW04	03/18/03	0.4 J	< 0.5	0.6	< 0.5	ND
	03/12/02	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/17/01	< 0.5	< 0.5 UJ	< 0.5	NA	ND
	02/22/99	< 0.5	NA	< 0.5	< 0.5	ND
	01/20/98	< 0.5	NA	< 0.5	< 0.5	ND
	11/13/97	< 0.5	NA	< 0.5	< 0.5	ND
	08/13/97	< 0.5	NA	< 0.5	< 0.5	ND
	05/19/97	< 0.5	NA	< 0.5	< 0.5	ND
	02/17/97	< 0.5	NA	< 0.5	< 0.5	ND
	12/11/96	< 0.5	NA	< 0.5	< 0.5	ND
	11/30/95	< 0.5	NA	< 0.5	< 0.5	ND
	04/05/95	NA	NA	NA	NA	NA
NKGW05	03/20/06	< 0.5	< 0.5	< 0.5	< 1	ND
	03/16/05	< 0.5	< 0.5	< 0.5	< 1	ND
	03/17/04	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/18/03	0.5	< 0.5	0.8	< 0.5	ND
	03/12/02	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/17/01	< 0.5	< 0.5 UJ	< 0.5	NA	ND
	02/22/99	< 0.5	NA	< 0.5	< 0.5	ND
	01/21/98	< 0.5	NA	< 0.5	< 0.5	ND
	05/19/97	< 0.5	NA	< 0.5	< 0.5	ND
	02/17/97	< 0.5	NA	< 0.5	< 0.5	ND
	12/11/96	< 0.5	NA	< 0.5	< 0.5	ND
	09/03/96	< 0.5	NA	2.3	< 0.5	ND
	06/05/96	< 0.5	NA	0.85	< 0.5	ND
	03/20/96	< 0.5	NA	< 0.5	< 0.5	ND
	11/30/95	< 0.5	NA	< 0.5	NA	ND
	09/22/95	< 0.5	NA	< 0.5	< 0.5	ND
	04/05/95	NA	NA	NA	NA	NA

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001.
The analytical methods used during previous quarters are identified in the respective quarterly reports.
µg/L - micrograms per liter
NA - Not analyzed
ND - Not detected
VOCs - Volatile organic compounds
MTBE - Methyl tert-butyl ether
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current historical data qualifiers.

Table A-13-4
Results of Dissolved Metals Analyses
Nike Missile Facility
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW7470/ SW7470A	SW6020	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
NKGW01	03/20/06	< 100	< 1	< 5	120	< 2	< 1	31,000	< 10	< 10	1.1	< 100	< 3	68,000	< 10	< 0.2	39	800	< 5	< 1	72,000	< 1	< 10	< 20	540
	03/16/05	< 100	< 1	9.3	89	< 2	2	26,000	< 10	< 10	2.6	< 100	< 3	60,000	13	< 0.2	49	1,700	< 5	< 1	49,000	< 1	< 10	50	440
DUP0031605A	03/16/05	< 100	< 1	7.6	95	< 2	1.8	27,000	< 10	< 10	2.2	< 100	< 3	63,000	11	< 0.2	51	1,400	< 5	< 1	52,000	< 1	< 10	35	500
	03/17/04	< 100	< 1	< 5	100	< 2	< 1	34,000	11	< 10	1	< 100	< 3	69,000	< 10	< 0.2	52	1,100	< 5	< 1 UJ	69,000	< 1	< 10	< 20	400
DUP0317042A	03/17/04	< 100	< 1	< 5	110	< 2	< 1	35,000	11	< 10	1.1	< 100	< 3	69,000	< 10	< 0.2	51	1,100	< 5	< 1 UJ	71,000	< 1	< 10	< 20	450
NKGW01CL	03/17/04	< 100	< 5	6.2	93	< 1	1	31,000	11	< 7	< 10	< 500	< 3	66,000	7.2	< 0.2 UJ	55	1,900	< 5	< 1	60,000	< 2	< 10	210 J+	420 HT-04,J
	03/18/03	< 100 UJ	< 1	< 1	110	< 1	< 1	40,000 J	10 J	< 1	< 1	< 100	< 3	94,000 J	13 J	< 0.2	55	1,100	< 5	< 1 UJ	92,000 J	< 1	< 10	< 10	500
	03/12/02	< 100	1.5	2.2	550	< 1	< 1	28,000	6	< 1	1.3	< 100	< 3	63,000	< 10	0.26	51	2,600	< 5	< 1 UJ	65,000	< 1	< 10	170	480
	05/17/01	< 100	2.5 J	< 1 UJ	130 J	< 1 UJ	< 1 UJ	24,000 J	5.6 J	< 1 UJ	1.2 J	< 100 UJ	< 3 UJ	69,000	18 J	1.6	66 J	< 500 UJ	< 5 UJ	< 1 UJ	77,000	< 1 UJ	< 10 UJ	22 J	550
	02/24/99	NA	< 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/18/98	NA	< 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/20/98	NA	< 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.84	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/13/97	NA	< 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/19/97	< 100	< 10	< 5	130	< 4	< 2	35,000	< 10	< 10	< 10	700	< 3	75,000	90	< 0.2	70	< 5,000	13	< 2	86,000	< 2	< 10	< 20	NA
	02/17/97	< 100	< 5	< 5	116	< 4	< 2	32,800	< 10	< 10	< 10	< 100	< 3	71,400	14.7	2.1	64.4	< 5,000	< 5	< 2	96,100	< 2	< 10	25.6	NA
	12/11/96	< 100	< 5	< 5	97.4	< 4	< 2	30,600	< 10	18.6	< 10	113	< 3	66,300	279	< 0.2	96.5	< 5,000	< 5	< 2	72,300	< 2	< 10	< 20	NA
	09/03/96	< 100	< 5	< 5	126	< 2	< 0.5	34,900	2.5	< 10	1.1	< 100	< 1	79,100	32.1	3.1	80.3	< 5,000	< 5	< 0.5	99,400	< 2	< 10	< 20	NA
	06/05/96	< 100	< 5	< 5	120	< 2	< 0.5	34,600	3.4	< 10	< 1	< 100	< 1	75,900	28.2	1.9	71.2	< 5,000	< 5	< 0.5	95,600	< 2	< 10	< 20	NA
	03/20/96	< 100	< 5	< 5	102	< 2	< 0.5	31,700	4.1	< 10	1.7	< 100	1.7	67,000	< 10	2.1	71.7	< 5,000	< 5	< 0.5	85,300	< 2	< 10	27.9	NA
	11/30/95	< 100	< 5	< 5	100	< 2	< 0.5	29,900	3.8	< 10	1.2	< 100	< 1	68,300	< 10	< 0.2	77	< 5,000	< 5	< 0.5	70,900	< 2	< 10	< 20	NA
	09/21/95	< 100	< 60	< 5	110	< 2	< 5	32,000	< 10	< 10	< 20	100	< 1	70,900	10	3.1	66	< 5,000	< 5	< 10	77,600	< 2	< 10	39	NA
NKGW02	03/20/06	< 100	< 1	< 5	42	< 2	< 1	13,000	< 10	< 10	< 1	< 100	< 3	23,000	< 10	< 0.2	< 20	< 500	< 5	< 1	41,000	< 1	< 10	< 20	330
	03/16/05	< 100	< 1	< 5	37	< 2	< 1	12,000	< 10	< 10	< 1	< 100	< 3	21,000	< 10	< 0.2	< 20	< 500	< 5	< 1	38,000	< 1	< 10	< 20	250
	03/17/04	< 100	< 1	< 5	37	< 2	< 1	14,000	< 10	< 10	< 1	< 100	< 3	22,000	< 10	< 0.2	< 20	< 500	< 5	< 1 UJ	42,000	< 1	< 10	< 20	220
	03/18/03	< 100 UJ	1	< 1	35	< 1	< 1	12,000 J	4.7 J	< 1	< 1	< 100	< 3	30,000 J	< 10 UJ	< 0.2	5.1	< 500	< 5	< 1 UJ	49,000 J	< 1	< 10	< 10	260
	03/12/02	< 100	< 1	< 1	440	< 1	< 1	12,000	4	< 1	< 1	< 100	< 3	25,000	< 10	< 0.2	5.6	< 500	< 5	< 1 UJ	42,000	< 1	< 10	160	230
	05/16/01	< 100	1.2 J	< 1 UJ	230 J	< 1 UJ	< 1 UJ	9,700 J	17 J	< 1 UJ	< 1 UJ	< 100 UJ	< 3 UJ	42,000	< 10 UJ	< 0.2	6.5 J	590 J	< 5 UJ	< 1 UJ	44,000	< 1 UJ	< 10 UJ	120 J	320
	02/23/99	NA	< 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/21/98	NA	< 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/20/97	< 100	< 5	< 5	< 10	< 4	2	17,000	20	< 10	< 10	< 100	< 3	48,000	70	< 0.2	< 20	< 5,000	5	< 2	54,000	< 2	< 10	20	NA
	02/18/97	< 100	< 5	< 5	43	< 4	< 2	15,400	< 10	< 10	< 10	< 100	< 3	27,100	< 10	0.25	< 20	< 5,000	< 5	< 2	46,900	< 2	< 10	23.2	NA
	06/05/96	< 100	< 5	< 5	15.8	< 2	< 0.5	16,200	11.3	< 10	< 1	< 100	< 1	35,800	14.1	< 0.2	6	< 5,000	< 5	< 0.5	47,700	< 2	< 10	< 20	NA
	03/19/96	< 100	< 5	< 5	38.7	< 2	< 0.5	14,100	5.9	< 10	1.9	< 100	< 1	24,300	< 10	< 0.2	8.6	< 5,000	< 5	< 0.5	41,900	< 2	< 10	< 20	NA
	09/22/95	< 100	< 60	< 5	< 10	< 2	< 5	22,100	< 10	< 10	< 20	< 100	< 1	46,300	96	< 0.2	< 40	< 5,000	< 5	< 10	43,300	< 2	< 10	< 20	NA
NKGW03	03/10/06	< 100	< 1	< 5	27	< 2	< 1	6,400	< 10	< 10	< 1	< 100	< 3	9,300	< 10	< 0.2	< 20	1,000	< 5	< 1	12,000	< 1	< 10	< 20	280
	03/18/05	< 100	< 1	< 5	30	< 2	< 1	9,200	< 10	< 10	< 1	< 100	< 3	14,000	< 10	< 0.2	< 20	620	< 5	< 1	19,000	< 1	< 10	< 20	220 J-
	03/17/04	< 100	< 1	< 5	27	< 2	< 1	11,000	< 10	< 10	< 1	< 100	< 3	20,000	< 10	< 0.2	< 20	< 500	< 5	< 1 UJ	30,000	< 1	< 10	< 20	300
	03/12/02	< 100	< 1	< 1	230	< 1	< 1	9,700	1	< 1	< 1	< 100	< 3	14,000	< 10	< 0.2	6.5	< 500	< 5	< 1 UJ	12,000	< 1	< 10	120	170
	02/23/99	< 100	< 5	< 5	< 10	< 2	< 2	5,610	< 10	< 10	< 10	< 100	< 3	10,300	< 10	< 0.2	< 20	< 5,000	< 5	< 2	7,080	< 2	< 10	< 20	NA
	01/20/98	970	< 5	< 5	22.6	< 4	< 2	6,480	< 10	< 10	< 10	1,640	< 3	7,510	38	< 0.2	< 20	< 5,000	< 5	< 2	13,100	< 2	< 10	< 20	NA
	02/18/97	312	< 5	< 5	11.6	< 4	< 2	10,000	< 10	< 10	< 10	362	< 3	16,900	< 10	0.28	< 20	< 5,000	< 5	< 2	7,440	< 2	< 10	< 20	NA

Table A-13-4
Results of Dissolved Metals Analyses
Nike Missile Facility
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW7470/ SW7470A	SW6020	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
NKGW04	03/20/06	< 100	< 1	< 5	45	< 2	18	31,000	< 10	< 10	1.7	< 100	< 3	22,000	< 10	< 0.2	< 20	1,500	< 5	< 1	23,000	< 1	< 10	950	420
DUP0320061A	03/20/06	< 100	< 1	< 5	41	< 2	16	29,000	< 10	< 10	2.6	< 100	< 3	21,000	< 10	< 0.2	< 20	1,400	< 5	< 1	23,000	< 1	< 10	860	760
	03/16/05	< 100	< 1	< 5	37	< 2	< 1	15,000	< 10	< 10	< 1	< 100	< 3	26,000	< 10	< 0.2	< 20	510	< 5	< 1	33,000	< 1	< 10	< 20	240
	03/17/04	< 100	< 1	< 5	45	< 2	< 1	22,000	< 10	< 10	2.2	< 100	< 3	30,000	< 10	< 0.2	< 20	590	< 5	< 1 UJ	40,000	< 1	< 10	< 20	260
	03/18/03	< 100 UJ	1	< 1	39	< 1	2.3	28,000 J	2.9 J	< 1	1.4	< 100	< 3	44,000 J	< 10 UJ	< 0.2	8.1	750	< 5	< 1 UJ	52,000 J	< 1	< 10	58	330
	03/12/02	< 100	2.5	< 1	550	< 1	1.2	22,000	3.7	< 1	1.1	< 100	< 3	32,000	< 10	< 0.2	10	980	< 5	< 1 UJ	36,000	< 1	< 10	220	290
	05/17/01	< 100	2.2 J	< 1 UJ	95 J	< 1 UJ	< 1 UJ	24,000 J	4.4 J	< 1 UJ	1.7 J	100 J	< 3 UJ	45,000	26 J	< 0.2	13 J	890 J	< 5 UJ	< 1 UJ	48,000	< 1 UJ	< 10 UJ	32 J	360
	02/22/99	NA	< 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/20/98	< 100	< 5	< 5	66.1	< 4	< 2	32,300	< 10	< 10	< 10	< 100	< 3	47,200	93.2	< 0.2	27.3	< 5,000	< 5	< 2	51,900	< 2	< 10	< 20	NA
	11/13/97	< 100	< 5	< 5	22.1	< 4	< 2	22,300	< 10	< 10	< 10	< 100	< 3	41,500	208	NA	21.8	< 5,000	< 5	< 2	47,700	< 2	< 10	< 20	NA
	08/13/97	< 100	< 5	< 5	29.1	< 4	< 2	23,200	< 10	< 10	< 10	< 100	< 3	41,800	346	< 0.2	27.9	< 5,000	< 5	< 2	47,200	< 2	< 10	< 20	NA
	05/19/97	< 100	< 5	< 5	30	< 4	< 2	23,000	< 10	< 10	< 10	< 100	< 3	39,000	110	< 0.2	20	< 5,000	5	< 2	44,000	< 2	< 10	< 20	NA
	02/17/97	< 100	< 5	< 5	41.7	< 4	< 2	24,400	< 10	< 10	< 10	< 100	< 3	37,000	33.4	< 0.2	20	< 5,000	< 5	< 2	50,600	< 2	< 10	< 20	NA
	12/11/96	< 100	< 5	< 5	28.7	< 4	< 2	26,900	< 10	< 10	< 10	< 100	< 3	45,300	203	< 0.2	< 20	< 5,000	< 5	< 2	51,700	< 2	< 10	< 20	NA
	11/30/95	< 100	5.1	< 5	19	< 2	< 0.5	25,000	4.2	< 10	1.3	< 100	< 1	36,500	130	< 0.2	15	< 5,000	< 5	< 0.5	41,700	< 2	< 10	27	NA
NKGW05	03/20/06	< 100	< 1	< 5	91	< 2	1.6	27,000	< 10	< 10	< 1	< 100	< 3	52,000	140	< 0.2	29	1,800	< 5	< 1	50,000	< 1	< 10	< 20	1,030
	03/16/05	< 100	< 1	< 5	120	< 2	1.1	29,000	< 10	< 10	< 1	150	< 3	44,000	1,400	< 0.2	33	3,300	< 5	< 1	47,000	< 1	< 10	< 20	320
	03/17/04	< 100	< 1	< 5	78	< 2	< 1	29,000	< 10	< 10	1.1	< 100	< 3	45,000	35	< 0.2	20	510	< 5	< 1 UJ	47,000	< 1	< 10	< 20	370
	03/18/03	< 100 UJ	1.8	< 1	83	< 1	< 1	37,000 J	2.4 J	< 1	1.4	< 100	< 3	73,000 J	45 J	< 0.2	22	< 500	< 5	< 1 UJ	59,000 J	< 1	< 10	< 10	430
	03/12/02	< 100	1.9	< 1	620	< 1	< 1	29,000	3.4	< 1	< 1	< 100	< 3	49,000	24	< 0.2	15	830	< 5	< 1 UJ	52,000	< 1	< 10	220	400
	05/17/01	< 100	1.4 J	< 1 UJ	100 J	< 1 UJ	< 1 UJ	18,000 J	3.3 J	< 1 UJ	3.6 J	< 100 UJ	< 3 UJ	48,000	33 J	< 0.2	17 J	< 500 UJ	< 5 UJ	< 1 UJ	47,000	< 1 UJ	< 10 UJ	22 J	400
	02/22/99	NA	< 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/21/98	NA	< 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/19/97	< 100	< 5	< 5	50	< 4	< 2	19,000	< 10	< 10	< 10	< 100	< 3	38,000	10	< 0.2	< 20	< 5,000	< 5	< 2	40,000	< 2	< 10	< 20	NA
	02/17/97	< 100	< 5	< 5	59.7	< 4	< 2	19,800	< 10	< 10	< 10	< 100	< 3	42,100	34.7	< 0.2	< 20	< 5,000	< 5	< 2	46,200	< 2	< 10	< 20	NA
	12/11/96	< 100	< 5	< 5	48.7	< 4	< 2	18,200	< 10	< 10	< 10	< 100	< 3	36,800	57.3	< 0.2	< 20	< 5,000	< 5	< 2	40,200	< 2	< 10	< 20	NA
	09/03/96	1,510 (J8)	< 5	< 5	62.5	< 2	< 0.5	20,000	23	< 10	2.5	3,750 (J8)	1.2	40,400	150	< 0.2	54.2	< 5,000	< 5	< 0.5	43,700	< 2	10.7	< 20	NA
	06/05/96	< 100	< 5	< 5	53.3	< 2	< 0.5	18,600	4.8	< 10	< 1	< 100	< 1	39,100	35.6	< 0.2	17.5	< 5,000	< 5	< 0.5	42,100	< 2	< 10	< 20	NA
	03/20/96	< 100	< 5	< 5	48.7	< 2	< 0.5	19,200	9.9	< 10	2.8	< 100	< 1	38,600	39.3	< 0.2	28.9	< 5,000	< 5	< 0.5	41,100	< 2	< 10	< 20	NA
	11/30/95	< 100	< 5	< 5	46	< 2	< 0.5	18,100	6.8	< 10	1.8	< 100	< 1	37,900	32	< 0.2	16	< 5,000	< 5	< 0.5	38,800	< 2	< 10	< 20	NA
	09/22/95	140	< 60	< 5	42	< 2	< 5	19,400	< 10	< 10	< 20	120	< 1	41,000	39	< 0.2	< 40	< 5,000	< 5	< 10	42,500	< 2	< 10	25	NA

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
Groundwater samples collected from all site monitoring wells were field filtered and analyzed for dissolved metals.
µg/L - micrograms per liter
mg/L - milligrams per liter
NA - Not analyzed
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-13-5
Groundwater Elevation Summary
Nike Missile Facility
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
NKGW01	05/22/06	26.21	278.38	252.17	MW
	03/06/06	26.80	278.38	251.58	MW
	11/28/05	36.35	278.38	242.03	MW
	09/01/05	29.83 [2]	278.38	248.55	MW
	05/23/05	Not located [3]	278.38	--	MW
	03/14/05	26.35	278.38	252.03	MW
	12/13/04	39.00	278.38	239.38	MW
	08/09/04	38.73	278.38	239.65	MW
	05/24/04	34.05	278.38	244.33	MW
	03/08/04	29.20	278.38	249.18	MW
	12/01/03	39.05	278.38	239.33	MW
	08/11/03	34.18	278.38	244.20	MW
	06/02/03	Not located [3]	278.38	--	MW
	03/10/03	30.66	278.38	247.72	MW
	12/02/02	38.88	278.38	239.50	MW
	08/26/02	36.20	278.38	242.18	MW
	05/28/02	31.37	278.38	247.01	MW
	03/04/02	30.15	278.38	248.23	MW
	11/26/01	40.46	278.38	237.92	MW
	08/27/01	Not located [3]	278.38	--	MW
	05/17/01	37.07 [4]	278.38	241.31	MW
NKGW02	05/22/06	12.60	312.00	299.40	MW
	03/06/06	10.02	312.00	301.98	MW
	11/28/05	19.99	312.00	292.01	MW
	08/29/05	18.37	312.00	293.63	MW
	05/23/05	13.95	312.00	298.05	MW
	03/14/05	11.15	312.00	300.85	MW
	12/13/04	15.10	312.00	296.90	MW
	08/09/04	19.75	312.00	292.25	MW
	05/24/04	16.45	312.00	295.55	MW
	03/08/04	12.25	312.00	299.75	MW
	12/01/03	20.07	312.00	291.93	MW
	08/11/03	17.73	312.00	294.27	MW
	06/02/03	16.20	312.00	295.80	MW
	03/10/03	14.58	312.00	297.42	MW
	12/02/02	Dry	312.00	291.5 [5]	MW
	08/26/02	19.07	312.00	292.93	MW
	05/28/02	16.34	312.00	295.66	MW
	03/04/02	13.11	312.00	298.89	MW
	11/26/01	20.06	312.00	291.94	MW
	08/27/01	Dry	312.00	291.5 [5]	MW
	05/08/01	16.51	312.00	295.49	MW
NKGW03	05/22/06	13.90	334.60	320.70	MW
	03/06/06	13.85	334.60	320.75	MW
	11/28/05	14.54	334.60	320.06	MW
	08/29/05	14.58	334.60	320.02	MW
	05/23/05	14.39	334.60	320.21	MW
	03/14/05	12.80	334.60	321.80	MW
	12/13/04	14.65	334.60	319.95	MW

Table A-13-5
Groundwater Elevation Summary
Nike Missile Facility
Presidio of San Francisco, California

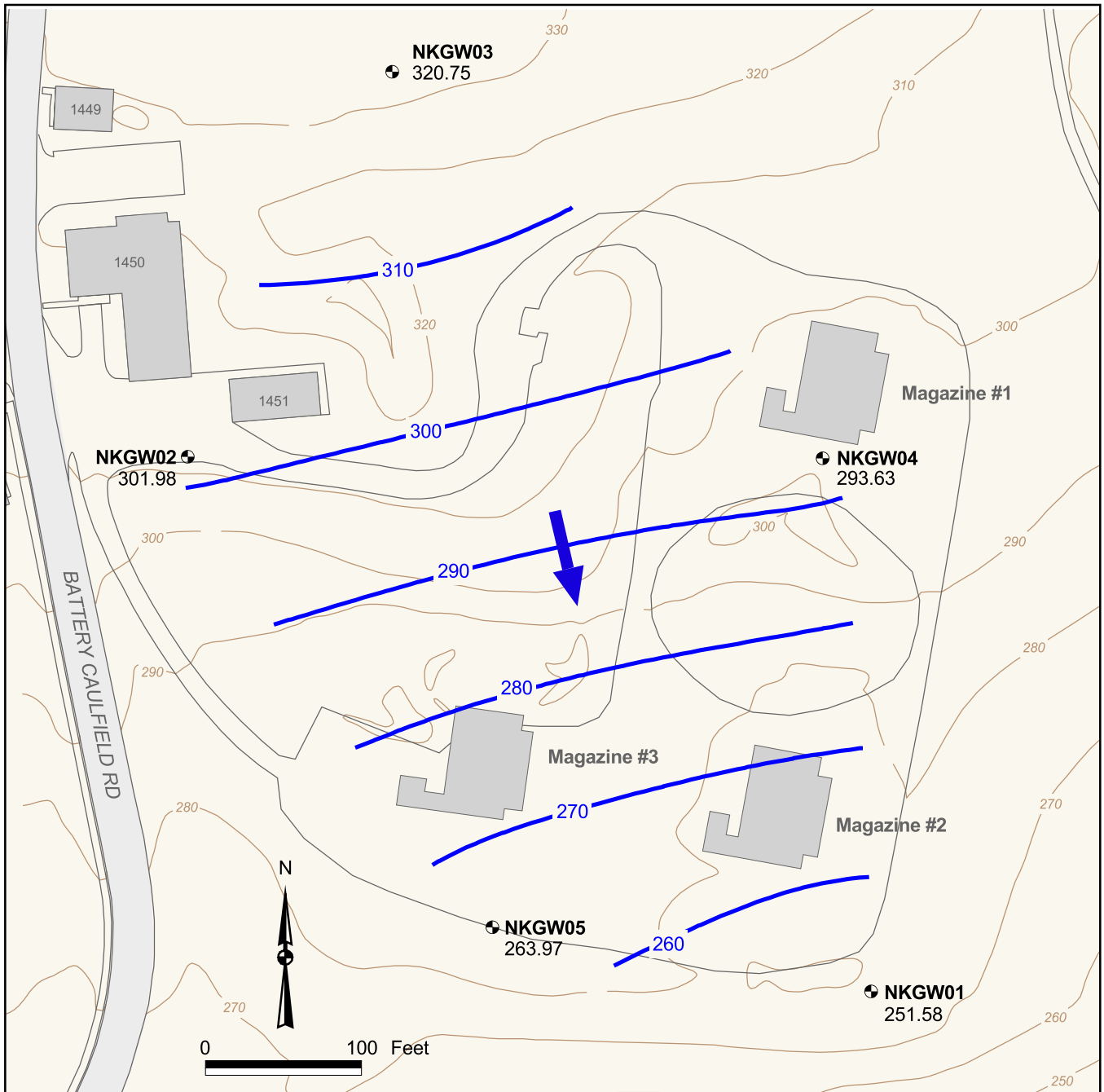
Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
NKGW03	08/09/04	14.68	334.60	319.92	MW
	05/24/04	14.66	334.60	319.94	MW
	03/08/04	13.21	334.60	321.39	MW
	12/01/03	14.65	334.60	319.95	MW
	08/11/03	14.60	334.60	320.00	MW
	06/02/03	14.55	334.60	320.05	MW
	03/10/03	14.53	334.60	320.07	MW
	12/02/02	14.50	334.60	320.10	MW
	08/26/02	14.47	334.60	320.13	MW
	05/28/02	14.47	334.60	320.13	MW
	03/04/02	13.58	334.60	321.02	MW
	11/26/01	Dry	334.60	320.7 [5]	MW
	08/27/01	Dry	334.60	320.7 [5]	MW
	05/08/01	14.53	334.60	320.07	MW
NKGW04	05/22/06	NM	299.60	NM	MW
	03/06/06	5.97	299.60	293.63	MW
	11/28/05	11.33	299.60	288.27	MW
	08/29/05	9.24	299.60	290.36	MW
	05/23/05	6.00	299.60	293.60	MW
	03/14/05	6.22	299.60	293.38	MW
	12/13/04	10.65	299.60	288.95	MW
	08/09/04	10.85	299.60	288.75	MW
	05/24/04	7.45	299.60	292.15	MW
	03/08/04	6.55	299.60	293.05	MW
	12/01/03	Not located [3]	299.60	--	MW
	08/11/03	Not located [3]	299.60	--	MW
	06/02/03	Not located [3]	299.60	--	MW
	03/10/03	7.52	299.60	292.08	MW
	12/02/02	10.59	299.60	289.01	MW
	08/26/02	9.90	299.60	289.70	MW
	05/28/02	7.90	299.60	291.70	MW
	03/04/02	8.81	299.60	290.79	MW
	11/26/01	12.34	299.60	287.26	MW
	08/27/01	11.88	299.60	287.72	MW
	05/08/01	11.10	299.60	288.50	MW
NKGW05	05/22/06	18.71	284.20	265.49	MW
	03/06/06	20.23	284.20	263.97	MW
	11/28/05	27.05	284.20	257.15	MW
	09/01/05	23.40 [2]	284.20	260.80	MW
	05/23/05	Not located [3]	284.20	--	MW
	03/14/05	19.82	284.20	264.38	MW
	12/13/04	27.15	284.20	257.05	MW
	08/09/04	27.55	284.20	256.65	MW
	05/24/04	26.07	284.20	258.13	MW
	03/08/04	22.80	284.20	261.40	MW
	12/01/03	27.50	284.20	256.70	MW
	08/11/03	Not located [3]	284.20	--	MW
	06/02/03	21.14	284.20	263.06	MW
	03/10/03	23.13	284.20	261.07	MW

Table A-13-5
Groundwater Elevation Summary
Nike Missile Facility
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
NKGW05	12/02/02	26.33	284.20	257.87	MW
	08/26/02	24.96	284.20	259.24	MW
	05/28/02	23.06	284.20	261.14	MW
	03/04/02	22.16	284.20	262.04	MW
	11/26/01	27.39	284.20	256.81	MW
	08/27/01	27.91	284.20	256.29	MW
	05/08/01	25.64	284.20	258.56	MW

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
2 - NKGW01 and NKGW05 were not located during the water level survey. Both wells were measured during sampling on 1 September 2005.
3 - Value represents the bottom of casing elevation in feet PLLW.
4 - Monitoring well was not located during the water level survey.
5 - NKGW01 was not located during the water level survey on 8 May 2001. The groundwater elevation was measured on 17 May 2001.

MW - Monitoring well
NM - Not measured
feet PLLW - feet above Presidio Lower Low Water vertical datum



LEGEND

- Approximate Direction of Groundwater Flow
- Groundwater Contour (Contour Interval : 10 ft)
- Topographic Contour (Contour Interval :10 ft)
- NKGW01 251.58 — Groundwater Monitoring Well March 2006 Groundwater Elevation
- Former Subsurface Nike Magazine
- 1450 — Building and Number

Notes:
Groundwater elevation data collected on 6 March 2006.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

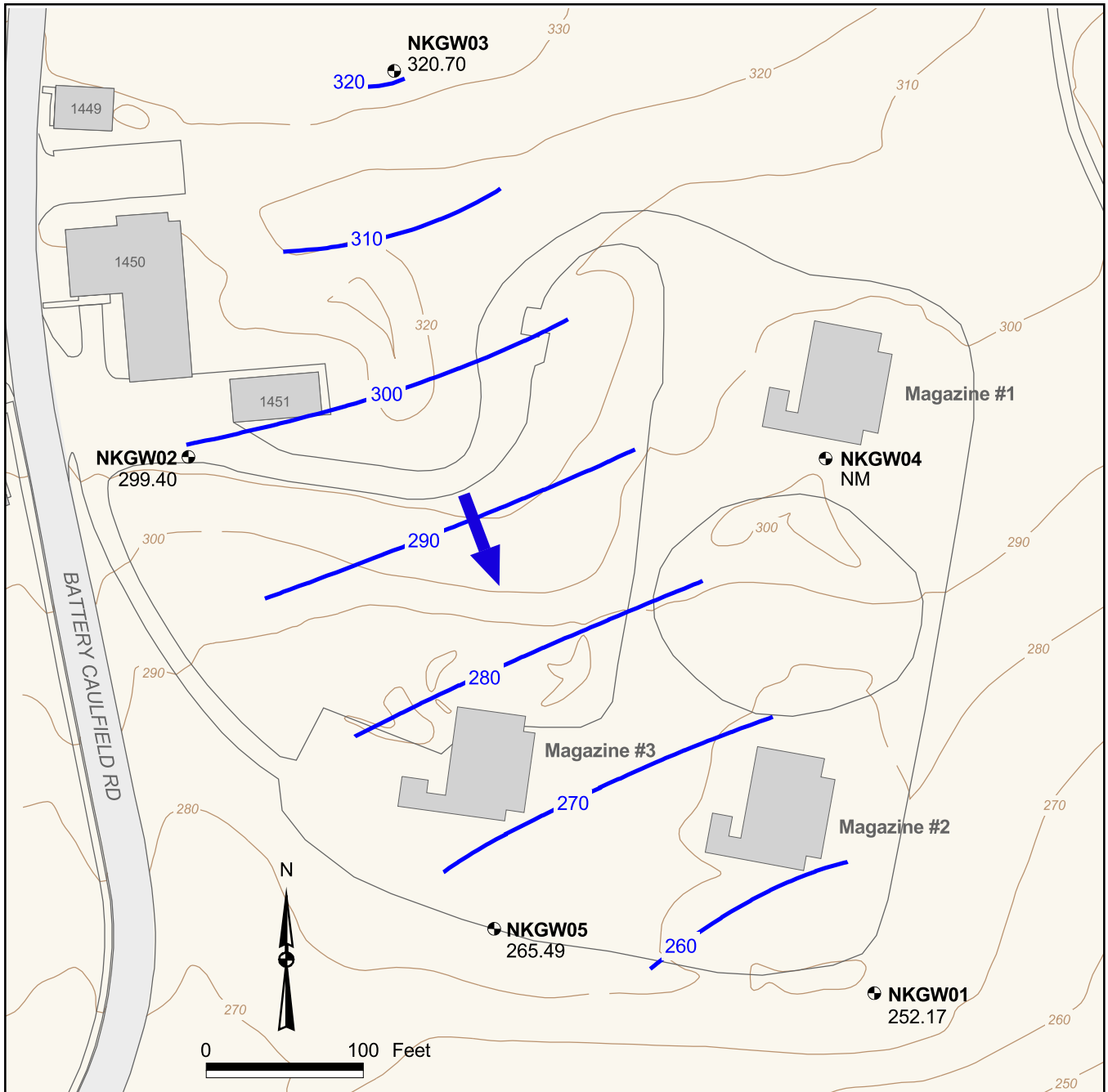
NIKE MISSILE FACILITY SITE PLAN AND 6 MARCH 2006 GROUNDWATER ELEVATION MAP

Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 561-5315
October 2006

FIGURE A-13-1



LEGEND

- Approximate Direction of Groundwater Flow
- Groundwater Contour (Contour Interval : 10 ft)
- Topographic Contour (Contour Interval :10 ft)
- NKGW01 252.17 — Groundwater Monitoring Well May 2006 Groundwater Elevation
- Former Subsurface Nike Magazine
- 1450 — Building and Number

Notes:
Groundwater elevation data collected on 22 May 2006.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

NIKE MISSILE FACILITY SITE PLAN AND 22 MAY 2006 GROUNDWATER ELEVATION MAP

Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 561-5315
October 2006

FIGURE A-13-2

BAKER BEACH DISTURBED AREA 3
APPENDIX SECTION A-14
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2006
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

Baker Beach Disturbed Area 3 (BBDA 3) is located along the western edge of the Presidio within the ravine south of Battery Crosby (Figure 1). The site is bordered on the west by the Pacific Ocean and on the east by Lincoln Boulevard. Battery Crosby is north of the site, and the access road for the battery off Lincoln Boulevard bisects the site (Figure A-14-1). The site elevation ranges from approximately 50 to 250 feet above PLLW.

Based on a review of aerial photographs, BBDA 3 received fill material intermittently between 1948 and 1973. Fill material was initially placed in BBDA 3 for erosion control along Lincoln Boulevard and along the access road to Battery Crosby (Figure A-14-1). This area was used for additional dumping of debris until approximately 1973 (Treadwell & Rollo, 2004a).

On 6 February 2004, two temporary piezometers were installed and developed using surge and purge methods in general accordance with the FSP (Treadwell & Rollo, 2001a). At the time of the installation, the piezometers were identified as BB3PZ1A and BB3PZ1B. Subsequently, the piezometers were designated as BB3PZ100A and BB3PZ100B to adhere to QAPP naming conventions.

On 22 June 2004, both BBDA 3 temporary piezometers were abandoned following the Second Quarter 2004 sampling and prior to commencement of remedial construction activities described below in Section 3.0. BBDA 3 excavation activities were conducted between July and December 2004. Following the excavation activities, two monitoring wells, one piezometer and three fixed surface water sampling points were installed and quarterly groundwater monitoring began. An additional fixed surface water monitoring point, BB3SW104, and piezometer, BB3PZ102, were installed in the First Quarter 2006 as requested by DTSC.

2.0 SITE DESCRIPTION AND GEOLOGY

BBDA 3 is located near the southern boundary of the Coastal Groundwater Basin (Figure 1). Based upon hydrogeologic information from adjacent areas, groundwater may be present in limited areas of the landslide deposits, dune sands, and the weathered serpentinite bedrock formations. Groundwater has been encountered within the BBDA 3 footprint in the eastern portion of the site at depths of 18 to 29 feet bgs (Treadwell & Rollo, 2003c). Groundwater flow

is assumed to follow the general topographic trend to the west toward the Pacific Ocean (Figures A-14-1 and A-14-2).

Battery Crosby is north of the site, and, prior to remedial activities, the access road for the battery off Lincoln Boulevard bisected the site (Figure A-14-1) (Treadwell & Rollo, 2005a). The fill material in BBDA 3 was composed primarily of soil and debris fill containing concrete, asphalt, and metal debris. Buttress fill material, consisting mainly of sand (fill sand) was initially placed in BBDA 3 along Lincoln Boulevard and along the access road to Battery Crosby. This area was used for additional dumping of debris (waste fill) until approximately 1973 (Dames & Moore, 1997).

The area in the vicinity of BBDA 3 is a steeply sloping bluff with a narrow beach (Baker Beach) at its base. Surface drainage in the area is to the west, toward the Pacific Ocean. Vegetation in the area consists of grasses, shrubs, and trees.

BBDA 3 lies at the boundary of two geologic regimes. The northern portion is predominantly Franciscan Formation overlain by landslide deposits, which generally consist of unstratified mixtures of bedrock fragments, sand, silt, and clay. The southern portion is covered almost entirely by Quaternary dune sand (Schlocker, 1974).

Prior to the remedial activities, an ephemeral seep, BB3SP01, flowed at the bottom of the ravine below BBDA 3 (Figure A-14-1). All historical surface water monitoring data for BBDA 3 are presented in the RAP. In May 2000, the Trust collected water samples from the shallow subsurface of the area and analyzed the samples for inorganics, TPHg, TPHd, VOCs, OCPs, PCBs, and chlorinated herbicides. One of the seep samples was found to contain TPHd at 77 µg/L (EKI, 2000).

At the request of DTSC, the Trust performed a slope stability analysis at BBDA 3 to determine whether excavation of the waste fill material at the site might undermine the structural fill buttress supporting Lincoln Boulevard east of Battery Crosby Road. The findings of this investigation are documented in the *Slope Stability Evaluation Report, Baker Beach Disturbed Area 3* (Treadwell & Rollo, 2004d). As recommended in that report, the stability of the slope supporting Lincoln Boulevard was monitored during excavation of waste materials at BBDA 3.

A pair of temporary piezometers were installed and monitored as part of the slope stability evaluation. Groundwater was found to be present in the dune sands and weathered serpentinite bedrock formations (Treadwell & Rollo, 2004d). Surface water drainage and groundwater flow appears to follow the general topographic trend, to the west and toward the Pacific Ocean. As documented in the RAP, it was anticipated that removal of the fill material could alter the location(s) of the freshwater seep(s) located at the western boundary of BBDA 3.

3.0 REMEDIAL ACTION PLAN

The *Remedial Action Plan* (RAP) *for Fill Site 6A and Baker Beach Disturbed Areas 3 and 4*, selected excavation, recycling, and offsite disposal of impacted fill material and underlying soil, along with groundwater monitoring, as the remedial alternative for BBDA 3. The goal of the remediation at BBDA 3 was to remove all contaminated material, leaving in place soil that meets the established cleanup levels (Treadwell & Rollo, 2003c).

In accordance with the California Code of Regulations, Title 27, Subchapter 3, Section 20390, a site that has undergone clean closure (where all wastes and residues, contaminated subsoil, and other contaminated materials are removed or decontaminated at closure) must be shown to comply with the water quality protection standards or the cleanup levels presented in Section 3 of the RAP for three years. Table 1B from the *Draft Construction Completion Report Baker Beach Disturbed Areas 3 and 4* (Treadwell & Rollo, 2005a) is included at the end of this section and summarizes groundwater cleanup levels applicable to BBDA 3. These cleanup levels are based on the most stringent values for protecting drinking and surface waters. RAP-specified groundwater cleanup levels for some analytes are slightly lower than their QAPP analytical reporting limits. Applicable RAP-specified cleanup levels are also listed on Tables A-14-1 through A-14-4.

Prior to remediation excavation activities, existing temporary piezometers BB3PZ100A and BB3PZ100B were abandoned. Following completion of excavation activities, two new groundwater monitoring wells (BB3GW100 and BB3GW101) and four seep monitoring locations: one new piezometer (BB3PZ101) and three new fixed water monitoring points (BB3SW100 through BB3SW102) were installed to monitor groundwater quality in the area of BBDA 3. The new well, piezometer and fixed water monitoring point sampling locations are located near or within the former impacted area of BBDA 3 as shown on Figure A-14-1.

The monitoring well, piezometer and fixed water monitoring point sampling locations were installed in December 2004 after the completion of all excavation activities, but prior to the start of revegetation activities. Soil borings were advanced below the water table to total depths of 37 feet bgs and 32 feet bgs for installation of wells BB3GW100 and BB3GW101, respectively. On 13 December 2004, piezometer BB3PZ101 was installed in a hand-auger boring to a total depth of 18 feet. Three fixed water monitoring point installations were also installed at former BBDA 3 on 8 December 2004. Treadwell & Rollo performed the hand-augering and installation of the fixed water monitoring points. The boring and well completion logs are included in the *Draft Construction Completion Report Baker Beach Disturbed Areas 3 and 4, Appendix I* (Treadwell & Rollo, 2005a).

A fixed water monitoring point (BB3PZ102) was installed and added to the monitoring program in March 2006, at the request of the DTSC, approximately 30 feet southeast of BB3SW100. BB3PZ102 was also installed at former BBDA 3 on 8 December 2004. The fixed water monitoring point was installed in a hand-auger boring to a total depth of 6.5 feet. Treadwell &

Rollo performed the hand-augering and installation of the fixed water monitoring point on 11 March 2006. An additional seep location (BB3SW104) was identified and added to the program in February 2006.

4.0 GROUNDWATER MONITORING

The First and Second Quarters 2006 were the sixth and seventh monitoring events conducted at BBDA 3, since the new groundwater monitoring network was installed in December 2004. A total of eight monitoring wells, piezometers and fixed water monitoring points are used to calculate groundwater elevations and collect groundwater samples.

During the First and Second Quarters 2006, groundwater elevations were measured and groundwater sampling was attempted at BBDA 3 within the two groundwater monitoring wells (BB3GW100 and BB3GW101), the two piezometers (BB3PZ101 and BB3PZ102), and the four fixed water monitoring points (BB3SW100 through BB3SW102 and BBSW104). Piezometer location BB3PZ101 was dry during the Second Quarter 2006, and therefore no groundwater elevations or samples were collected from that well at that time. The proposed sampling schedules for First and Second Quarters 2006 are presented in Tables 1A and 1B.

4.1 Groundwater-Level Measurements and Interpretation

Groundwater elevation measurements during the First and Second Quarters 2006 were collected on 6 March and 22 May 2006. Groundwater elevation maps showing groundwater contours and flow directions for BBDA 3 are included as Figures A-14-1 and A-14-2. Water level meters were calibrated on 6 March and 22 May 2006 and the calibration logs can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C.

Groundwater elevations at BBDA 3 during the First Quarter 2006 ranged from 64.30 to 168.99 feet above PLLW in fixed water monitoring point BB3SW100 and monitoring well BB3GW100, respectively. Groundwater elevations at the BBDA 3 during the Second Quarter 2006 ranged from 63.38 to 168.44 feet above PLLW in fixed water monitoring point BB3SW100 and monitoring well BB3GW100, respectively. Groundwater elevations are presented in Table A-14-4.

To gain a broader understanding of groundwater gradients and flow directions in the BBDA 3 area, the groundwater elevations were evaluated with FS 5 measurements. During the First and Second Quarters 2006, the groundwater flow direction across BBDA 3 was observed to be in a southwesterly direction toward the Pacific Ocean following the general topographic trend. The groundwater gradient at BBDA 3 was estimated to be approximately 0.20 feet per foot during the First and Second Quarters 2006.

4.2 Monitoring Well Purging and Sampling

During the First Quarter 2006 at the request of the DTSC, piezometer BB3PZ102 and fixed monitoring point BB3SW104 were added to the sampling schedule to evaluate downgradient and surface water dissolved and total metal concentrations. Monitoring wells, fixed water monitoring points and piezometers were purged and sampled between 8 March and 16 March 2006. Groundwater samples were collected from monitoring well BB3GW100, from piezometers BB3PZ101 and BB3PZ102 and from fixed water monitoring points BB3SW100 through BB3SW102, and BB3SW104. Fixed water monitoring points BB3SW100 and BB3SW101 dewatered and only partial samples could be collected from these locations. Monitoring well BB3GW101 dewatered on 16 March and was left to recharge. A second attempt to purge and sample BB3GW101 took place on 21 March, however, the well contained insufficient water and therefore was not purged or sampled.

Monitoring wells, fixed water monitoring points and piezometers were purged and sampled on 23 May 2006. Groundwater samples were collected from monitoring well BB3GW100 and from fixed water monitoring points BB3SW102 and BB3SW104. Only a partial sample set was collected from BB3SW101 due to dewatering. Groundwater samples were not collected from BB3PZ102, BB3SW100, BB3SW101, or BB3GW101 due to either the location being dry or dewatering and not recharging sufficiently.

All sampling locations were sampled in accordance with methods shown in Tables 1A and 1B and procedures described in the FSP (Treadwell & Rollo, 2001a).

Purging equipment, purging volumes, purge water parameters, and sampling equipment for each sampling location are described in the purge records at the conclusion of this section. Purge water was stored for future disposal in one of two 2,800-gallon aboveground polyethylene storage tanks, which are located at the Central Magazine.

4.3 Groundwater Analytical Program

All groundwater samples were submitted to the project laboratory for the analyses shown in Tables 1A and1B of the main text. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are shown in Table 5. Sample containers used for each well are described in the purge records located at the conclusion of this section.

QA/QC samples were collected as part of this program. Section 6.2 of the main text discusses the QA/QC sampling and analysis performed for the First and Second Quarters.

5.0 GROUNDWATER ANALYTICAL RESULTS

During the First Quarter 2006, groundwater samples were collected from monitoring well BB3GW100, piezometers BB3PZ101 and BB3PZ102 and from fixed water monitoring points

BB3SW100 through BB3SW102, and seep BB3SW104. During the Second Quarter 2006, groundwater samples were collected from monitoring well BB3GW100 and from fixed water monitoring points BB3SW101 and BB3SW102 and seep BB3SW104. Samples were analyzed for a combination of dissolved oxygen, general chemistry parameters, TDS, TPHg, TPHd, TPHfo, dissolved metals and total metals. All analyses were conducted in accordance with the groundwater sampling schedule (Tables 1A and 1B).

5.1 Dissolved Oxygen and General Chemistry Results

Dissolved oxygen and general chemistry results are presented in Table A-14-1. The table below summarizes new high and low dissolved oxygen and general chemistry analytical results when compared to previous sampling events, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date of commencement of sampling, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
General Chemistry							
BB3GW100	Alkalinity, Total	11 / 11	220	330	200	--	mg/L
	Bicarbonate	11 / 11	220	330	200	--	mg/L
BB3PZ101	Alkalinity, Total	3 / 3	190	490	150	--	mg/L
	Bicarbonate	3 / 3	190	490	150	--	mg/L
	Chloride	3 / 3	120	140	91	--	mg/L
	Dissolved Oxygen	3 / 3	1.3	5.8	--	8.11	mg/L
	Nitrate	3 / 3	17	25	14	--	mg/L
	Sulfate	3 / 3	71	89	43	--	mg/L
BB3PZ102	Alkalinity, Total	1 / 1	NS	NS	180	180	mg/L
	Bicarbonate	1 / 1	NS	NS	180	180	mg/L
	Chloride	1 / 1	NS	NS	82	82	mg/L
	Dissolved Oxygen	1 / 1	NS	NS	3.71	3.71	mg/L
	Fluoride	1 / 1	NS	NS	0.12	0.12	mg/L
	Nitrate	1 / 1	NS	NS	4.3	4.3	mg/L
	Sulfate	1 / 1	NS	NS	28	28	mg/L
BB3SW100	Dissolved Oxygen	2 / 2	2.3	2.3	2	--	mg/L
BB3SW102	Chloride	6 / 6	100	150	--	180	mg/L
	Dissolved Oxygen	6 / 6	5.84	8.6	4.6	--	mg/L
	Nitrate	6 / 6	4.7	25	3.6	--	mg/L
BB3SW104	Alkalinity, Total	4 / 4	NS	NS	131	180	mg/L
	Bicarbonate	4 / 4	NS	NS	131	180	mg/L
	Chloride	4 / 4	NS	NS	71	95	mg/L
	Dissolved Oxygen	2 / 2	NS	NS	8.32	9.84	mg/L
	Fluoride	1 / 4	NS	NS	< 0.1	0.1	mg/L
	Nitrate	4 / 4	NS	NS	2.8	5.02	mg/L
	Sulfate	4 / 4	NS	NS	24.2	29	mg/L

General chemistry results for the First and Second Quarters 2006 at BBDA 3, are generally within historical ranges or are the initial sampling events for newer sampling locations.

During the First Quarter 2006, dissolved oxygen was measured at concentrations ranging from 0.56 mg/L to 8.32 mg/L within BB3GW100 and BB3SW104, respectively. During the Second Quarter 2006, dissolved oxygen was measured at concentrations ranging from 1.17 mg/L to 9.84 mg/L within BB3GW100 and BB3SW104, respectively. A sufficient amount of dissolved oxygen data has not yet been collected from all locations to develop trends, but higher concentrations of dissolved oxygen are observed in the shallower fixed water monitoring points and the piezometers versus the monitoring well.

General chemistry analytical results are presented in Table A-14-1. In general, nitrate and sulfate concentrations were slightly higher in the monitoring well and piezometer locations versus the fixed water monitoring points. Chloride fluctuated within historical ranges. Nitrite was not detected in any of the samples. Clear trends are not yet apparent for BB3D 3 general chemistry parameter concentrations. Future general chemistry results will be collected at BBDA 3 in accordance with the RAP and trends will be identified as they become apparent.

5.2 TPH Results

The analytical results for TPHg, TPHd, and TPHfo, along with the RAP-specified cleanup levels, are presented in Table A-14-2. The table below summarizes new high and low TPH analytical results when compared to previous sampling events, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date of commencement of sampling, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Total Petroleum Hydrocarbons							
BB3GW100	TPH As Diesel C12-C24	1 / 10	< 50	< 50	--	78 *	µg/L
BB3PZ101	TPH As Gasoline C7-C12	1 / 3	< 50	< 50	--	78 *	µg/L
	TPH As Diesel C12-C24	1 / 3	< 50	< 50	--	81 *	µg/L

TPHg was detected for the first time at BBDA 3 at a concentration of 78 µg/L within BB3PZ101, during the First Quarter 2006.

TPHd was detected at concentrations of 78 µg/L and 81 µg/L within BB3GW100 and BB3PZ101, respectively, during the First Quarter 2006.

TPH compounds were not detected above laboratory limits within any other groundwater or surface water samples collected from BBDA 3 during the First and Second Quarters 2006. Clear

trends are not yet apparent for BB3D 3 TPH concentrations. TPH results will be collected at BBDA 3 in accordance with the RAP and trends will be identified as they become apparent.

5.3 Total and Dissolved Metals Results

The total and dissolved metals results for First and Second Quarters 2006, along with RAP-specified cleanup levels, are presented in Table A-14-3.

The following table summarizes new high and low dissolved metals results for the First and Second Quarters 2006 when compared to previous sampling events, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date of commencement of sampling, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Metals, Dissolved							
BB3GW100	Sodium	11 / 11	100,000	130,000	95,000	--	µg/L
BB3PZ101	Barium	3 / 3	68	74	43	--	µg/L
	Calcium	3 / 3	31,000	45,000	26,000	--	µg/L
	Copper	3 / 3	2.7	3.3	1.8	--	µg/L
	Iron	2 / 3	240	260	< 100	--	µg/L
	Magnesium	3 / 3	59,000	87,000	41,000	--	µg/L
	Sodium	3 / 3	83,000	92,000	65,000 *	--	µg/L
BB3PZ102	Barium	1 / 1	NS	NS	19	19	µg/L
	Calcium	1 / 1	NS	NS	20,000	20,000	µg/L
	Copper	1 / 1	NS	NS	2.6	2.6	µg/L
	Iron	1 / 1	NS	NS	310	310	µg/L
	Magnesium	1 / 1	NS	NS	30,000	30,000	µg/L
	Manganese	1 / 1	NS	NS	54	54	µg/L
	Potassium	1 / 1	NS	NS	1,800	1,800	µg/L
	Sodium	1 / 1	NS	NS	52,000	52,000	µg/L
	Total Dissolved Solids	1 / 1	NS	NS	540 *	540 *	mg/L
BB3SW101	Barium	5 / 5	17	23	13	--	µg/L
	Calcium	5 / 5	11,000	15,000	6,500	--	µg/L
	Magnesium	5 / 5	15,000	22,000	9,700	--	µg/L
	Potassium	5 / 5	1,400	1,700	1,000	--	µg/L
	Sodium	5 / 5	38,000	52,000	33,000	--	µg/L
BB3SW102	Barium	6 / 6	25	43	--	56	µg/L
	Calcium	6 / 6	18,000	24,000	15,000	--	µg/L
	Chromium	6 / 6	30	52	--	64	µg/L
	Copper	5 / 6	1.2	2.6	< 1	--	µg/L
	Magnesium	6 / 6	45,000	83,000	--	91,000	µg/L

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
BB3SW102	Potassium	6 / 6	970	1,200	760	--	µg/L
	Sodium	6 / 6	47,000	76,000	--	84,000	µg/L
	Total Dissolved Solids	5 / 5	250	660	--	780 *	mg/L
BB3SW104	Barium	4 / 4	NS	NS	18	31	µg/L
	Calcium	4 / 4	NS	NS	18,000	24,000	µg/L
	Chromium	1 / 4	NS	NS	< 10	12	µg/L
	Copper	4 / 4	NS	NS	2.4	3	µg/L
	Magnesium	4 / 4	NS	NS	32,000	41,000	µg/L
	Manganese	3 / 4	NS	NS	< 10	16	µg/L
	Nickel	1 / 4	NS	NS	< 20	10	µg/L
	Potassium	3 / 4	NS	NS	< 5,000 *	1,200	µg/L
	Sodium	4 / 4	NS	NS	44,000	55,000	µg/L
	Total Dissolved Solids	4 / 4	NS	NS	348	400	mg/L
	Zinc	1 / 4	NS	NS	< 20	24	µg/L
	Zinc	1 / 4	NS	NS	< 20 *	24	µg/L

Qualified data in the table above is indicated with an asterisk (*).

The majority of the dissolved metals concentrations measured during the First and Second Quarters 2006 are below RAP-specified cleanup levels. Results exceeding RAP-specified cleanup levels are discussed below.

- Dissolved chromium was detected at 60 µg/L and 64 µg/L within BB3SW102 during the First and Second Quarters 2006, respectively. The RAP-specified cleanup level for dissolved chromium is 50 µg/L. No other dissolved metals were reported in excess of RAP-specified cleanup levels during First or Second Quarters 2006.

The following table summarizes new high and low total metal results for the First and Second Quarters 2006 when compared to previous sampling events, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date of commencement of sampling, and the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Metals, Total							
BB3PZ102	Aluminum	1 / 1	NS	NS	65,000	65,000	µg/L
	Antimony	1 / 1	NS	NS	1.8	1.8	µg/L
	Arsenic	1 / 1	NS	NS	39	39	µg/L
	Barium	1 / 1	NS	NS	790	790	µg/L
	Cadmium	1 / 1	NS	NS	3.5	3.5	µg/L
	Calcium	1 / 1	NS	NS	35,000	35,000	µg/L

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Metals, Total							
BB3PZ102	Chromium	1 / 1	NS	NS	440	440	µg/L
	Cobalt	1 / 1	NS	NS	190	190	µg/L
	Copper	1 / 1	NS	NS	96	96	µg/L
BB3PZ102	Iron	1 / 1	NS	NS	120,000	120,000	µg/L
	Lead	1 / 1	NS	NS	86	86	µg/L
	Magnesium	1 / 1	NS	NS	56,000	56,000	µg/L
	Manganese	1 / 1	NS	NS	22,000	22,000	µg/L
	Nickel	1 / 1	NS	NS	1,200	1,200	µg/L
	Potassium	1 / 1	NS	NS	5,100	5,100	µg/L
	Sodium	1 / 1	NS	NS	52,000	52,000	µg/L
	Vanadium	1 / 1	NS	NS	300	300	µg/L
	Zinc	1 / 1	NS	NS	480	480	µg/L
BB3SW101	Calcium	4 / 4	13,000	17,000	9,300	--	µg/L
	Magnesium	4 / 4	18,000	21,000	14,000	--	µg/L
	Potassium	4 / 4	1,800	2,500	1,400	--	µg/L
	Sodium	4 / 4	46,000	49,000	34,000	--	µg/L
BB3SW102	Aluminum	5 / 5	4,600	10,000	2,200	22,000	µg/L
	Arsenic	3 / 5	< 5	6.3	--	11	µg/L
	Barium	5 / 5	140	280	120	--	µg/L
	Calcium	5 / 5	22,000	32,000	15,000	--	µg/L
	Chromium	5 / 5	56	100	--	170	µg/L
	Cobalt	4 / 5	24	46	< 10	--	µg/L
	Copper	5 / 5	29	40	8.9	--	µg/L
	Iron	5 / 5	5,900	16,000	3,600	30,000	µg/L
	Lead	5 / 5	23	31	6.9	--	µg/L
	Magnesium	5 / 5	76,000	95,000	--	98,000	µg/L
	Manganese	5 / 5	780	2,000	380	--	µg/L
	Nickel	5 / 5	130	150	31	--	µg/L
	Potassium	5 / 5	1,300	2,400	1,200	2,600	µg/L
	Sodium	5 / 5	61,000	74,000	--	83,000	µg/L
	Vanadium	5 / 5	45	58	16	79	µg/L
	Zinc	5 / 5	63	93	36	--	µg/L
BB3SW104	Aluminum	4 / 4	NS	NS	2,700	5,300	µg/L
	Arsenic	1 / 4	NS	NS	< 5	2.5	µg/L
	Barium	4 / 4	NS	NS	100	160	µg/L
	Calcium	4 / 4	NS	NS	23,000	28,000	µg/L
	Chromium	4 / 4	NS	NS	19	42	µg/L
	Cobalt	4 / 4	NS	NS	9	12	µg/L
	Copper	4 / 4	NS	NS	8.4	13	µg/L
	Iron	4 / 4	NS	NS	3,100	7,300 *	µg/L
	Lead	4 / 4	NS	NS	8.4	16	µg/L
	Magnesium	4 / 4	NS	NS	40,000	42,000	µg/L
	Manganese	4 / 4	NS	NS	320	370	µg/L

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Metals, Total							
BB3SW104	Nickel	4 / 4	NS	NS	37	45	µg/L
	Potassium	3 / 4	NS	NS	< 5,000 *	1,600	µg/L
	Sodium	4 / 4	NS	NS	44,000	54,000	µg/L
	Vanadium	4 / 4	NS	NS	21	29	µg/L
	Zinc	4 / 4	NS	NS	50	62	µg/L

RAP-specified cleanup levels apply only to dissolved metals. These detections were in unfiltered samples; thus the reported concentrations are not representative of dissolved metals in groundwater. Significant total metals results are discussed below.

- Total Arsenic was detected at 39 µg/L within BB3PZ102 during the Second Quarter 2006.
- Total chromium was detected at 170 µg/L within BB3SW102 during the First Quarter 2006.
- Total copper was detected at 96 µg/L within BB3PZ102 during the First Quarter 2006.
- Total nickel was detected at 1,200 µg/L within BB3PZ102 during the First Quarter 2006.
- Total zinc was detected at 480 µg/L within BB3PZ102 during the First Quarter 2006.

Clear trends are not yet apparent for BB3D 3 total and dissolved metal concentrations. Future total and dissolved metals results will be collected at BBDA 3 in accordance with the RAP and trends will be identified as they become apparent.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Both BBDA 3 temporary piezometers were abandoned following the Second Quarter 2004, prior to commencement of remedial construction activities. No groundwater monitoring activities took place at BBDA 3 during the Third Quarter 2004 because the remedial action was in progress and no groundwater monitoring wells, seep monitoring locations had yet been established. Following the excavation activities, two groundwater monitoring wells and four seep monitoring points (one piezometer and three fixed water monitoring points) were installed and included in the Presidio-wide Groundwater Monitoring Program. At DTSC's request, an additional piezometer and seep location are also now sampled. No significant trends were identified during the First and Second Quarters 2006 at BBDA 3. Future detections and trends will continue to be monitored and evaluated in accordance with the RAP.

Table 1B
Groundwater and Surface Water Cleanup Levels
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Potential Contaminant of Concern	QAPP Analytical Reporting Limit Water (mg/L)	Laboratory Detection Limit Water (mg/L)	Groundwater and Surface Water Seep Cleanup Level (mg/L)
			Drinking Water Freshwater Seep[1]
Inorganic Chemicals (Methods 6010/6020)			
Antimony	2.0	1.0	6
Arsenic	2.0	1.0	10
Barium	1.0	1	1,000
Beryllium	1.0	1.0	4
Cadmium	1.0	1.0	1.1
Chloride	--	100	250000
Chromium (Cr(VI) & Cr(III))	2.0	1.0	50
Cobalt	1.0	1.0	--
Copper	2.0	1.0	11.8
Lead	1.0	3	3.2
Tetraethyl Lead	--	--	--
Molybdenum	1.0	20	--
Nickel	2.0	1.0	100
Selenium	2.0	5	5
Silver	1.0	1.0	4.1
Thallium	1.0	1.0	2
Vanadium	10	10	--
Zinc	2.0	1.0	106
Semivolatile Organic Compounds (Method 8270C)			
Acenaphthene	10	5	--
Acenaphthylene	10	10	--
Anthracene	10	0.5	770
Benzo(a)anthracene	10	0.1	0.1
Benzo(a)pyrene	10	0.1	0.2
Benzo(b)fluoranthene	10	0.2	0.2
Benzo(g,h,i)perylene	10	0.2	150
Benzo(k)fluoranthene	10	0.1	2
Benzyl Alcohol	10	10	--
Bis(2-ethylhexyl)phthalate	10	10	4
Chrysene	10	0.1	20
Dibenzo(a,h)anthracene	10	0.2	--
Dibenzofuran	10	10	--
Fluoranthene	10	0.4	300
Fluorene	10	1.0	300
Indeno(1,2,3-c,d)pyrene	10	0.14	--
2-methylnaphthalene	10	10	--
2-methylphenol (o-Cresol)	--	10	--
4-methylphenol (p-Cresol)	--	10	--

Table 1B
Groundwater and Surface Water Cleanup Levels
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Potential Contaminant of Concern	QAPP Analytical Reporting Limit Water (mg/L)	Laboratory Detection Limit Water (mg/L)	Groundwater and Surface Water Seep Cleanup Level (mg/L)
			Drinking Water Freshwater Seep[1]
Semivolatile Organic Compounds (cont.)			
Naphthalene	10	5	300
n-dotriacontane	--	--	--
n-hentriacontane	--	--	--
n-nitrosodiphenylamine	10	10	--
n-triacontane	--	--	--
Pentachlorophenol	50	10	1
Phenanthrene	10	0.5	230
Phenol	10	10	1
Polycyclic Aromatic Hydrocarbons	--	--	--
Pyrene	10	0.2	230
Volatile Organic Compounds (Method 8260B)			
Acetone	10	10	--
Bromodichloromethane	0.5	0.5	80
2-butanone (MEK)	10	10	--
Carbon disulfide	5.0	0.5	--
Carbon Tetrachloride	0.5	0.5	0.5
Chlorodibromomethane	0.5	0.5	0.4
Chlorobenzene	0.5	0.5	70
Chloroform	0.5	0.5	80
Chloromethane	0.5	1.0	--
1,4-dichlorobenzene	2.4	0.5	5
1,2-dichloroethane	0.5	0.5	0.5
1,1-dichloroethane	--	--	6
cis 1,2-dichloroethane	--	--	6
p-Isopropyltoluene (p-cymene)	--	--	--
Methylene Chloride	4.5	5	5
Tetrachloroethene	0.5	0.5	5
1,2,3-trichloroethane	--	--	7
1,2,4-trichloroethane	--	--	7
1,1,1-trichloroethane	0.5	0.5	200
Trichloroethene	0.5	0.5	5
Trichlorofluoromethane	--	0.5	150
PCBs, Pesticides, and Herbicides (Methods 8081, 8082 & 8150)			
PCBs (Aroclor 1254)	--	0.5	0.014
Aldrin	0.05	0.025	--
alpha-BHC	--	--	--
beta-BHC	--	--	0.3

Table 1B
Groundwater and Surface Water Cleanup Levels
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Potential Contaminant of Concern	QAPP Analytical Reporting Limit Water (mg/L)	Laboratory Detection Limit Water (mg/L)	Groundwater and Surface Water Seep Cleanup Level (mg/L)
			Drinking Water Freshwater Seep[1]
PCBs, Pesticides, and Herbicides (cont.)			
delta-BHC	--	--	--
Chlordane	0.5	0.25	0.0043
2,4-D	0.25	1.0	70
4,4'-DDD	0.1	0.05	--
4,4'-DDE	0.1	0.05	--
4,4'-DDT	0.1	0.05	0.001
Dicamba	0.25	1.0	--
Dieldrin	0.1	0.05	0.056
Endosulfan	0.05	0.025	0.056
Endosulfan Sulfate	0.1	0.05	0.056
Endrin	0.1	0.05	0.036
Endrin Aldehyde	--	0.05	0.036
Endrin Ketone	0.1	0.05	0.036
gamma-BHC (Lindane)	0.05	0.025	
gamma-BHC (Lindane)	0.05	0.025	0.2
Heptachlor	0.05	0.025	0.0038
Heptachlor Epoxide	0.05	0.025	0.0038
Isodrin	--	0.05	--
MCPP	100	500	--
Methoxychlor	0.5	0.25	40
Petroleum Hydrocarbons (Method 8015 Modified)			
TPH as gasoline (C7 - C12)	50	50	443
TPH as diesel (C12 - C24)	50	50	880
TPH as fuel oil (C24 - C36)	300	300	1,200
Benzene	0.01	0.5	1
Ethylbenzene	0.05	0.5	700
Toluene	0.5	0.5	150
Total Xylenes	0.5	0.5	318

Notes
Shading indicates target cleanup levels.

[1] Cleanup levels for groundwater and surface water seeps are based on the most stringent of the values for maintaining water quality criteria for drinking water and freshwater seeps. Source: Table 7-6 in Cleanup Levels Document (EKI, 2002). These clea

Table A-14-1
Results of Dissolved Oxygen Measurements and General Chemistry Analyses
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Location ID	Sample Date	Alkalinity, Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	Field	E300.0	E300.0	E300.0	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cleanup Levels [4]		--	--	**250,000**	--	--	--	--	--
BB3GW100	05/23/06	200	200	200	1.17	< 0.1	7.9	< 0.05	49
DUP0523063A	05/23/06	200	200	200		< 0.1	7.8	< 0.05	48
	03/16/06	250	250	220	0.56	< 0.1	8.1	< 0.05	49
	11/30/05	310 J+	310	260	1.6	< 0.1	5.4	< 0.05	58
DUP1130053A	11/30/05	310 J+	310	260	--	< 0.1	5.2	< 0.05	60
BB3GW100CL	11/30/05	287	287	292	--	< 1 U	5.26 J	< 0.1 U UJ	54.8
	08/31/05	250	250	240	0.9	< 0.1	6	< 0.05	52
	05/24/05	220	220	210	0.2	< 0.1	7.4	< 0.05	50
	03/22/05	260	260	190	0.9	< 0.1	12	< 0.05	47
DUP0322053A	03/22/05	220	220	190	--	< 0.1	12	< 0.05	48
	12/14/04	330	330	260	2.2	< 0.1	7.3	< 0.05	56
BB3GW101	12/01/05	NA	NA	NA	NM	NA	NA	NA	NA
	03/22/05	440	440	350	6.9	0.31	17	< 0.05	93
BB3PZ101 [3]	03/16/06	150	150	91	8.11	< 0.1	14	< 0.05	43
	03/22/05	190	190	140	1.3	< 0.1	25	< 0.05	71
	12/16/04	490	490	120	5.8	< 0.1	17	< 0.05	89
BB3PZ102	03/15/06	180	180	82	3.71	0.12	4.3	< 0.05	28
BB3SW100	03/15/06	NA	NA	NA	2	NA	NA	NA	NA
	12/01/05	110	110	160	NM	< 0.1	8.6	< 0.05	37
	03/22/05	60	60	75	2.3	0.15	1.7	< 0.05	30
BB3SW101	03/15/06	NA	NA	NA	4.56	NA	NA	NA	NA
	12/01/05	88	88	82	NM	0.1	7.5	< 0.05	30
	05/24/05	44	44	67	2.9	< 0.1	8.9	< 0.05	31
	04/14/05	80	80	75	5.12	< 0.1	8.7	< 0.05	33
	03/22/05	44	44	83	4.9	< 0.1	9.1	< 0.05	36
	12/17/04	NA	NA	NA	8	NA	NA	NA	NA
BB3SW102	05/23/06	270	270	150	6.3	< 0.1	4.4	< 0.05	40
	03/15/06	250	250	180	4.6	< 0.1	3.6	< 0.05	42
	05/24/05	260	260	150	5.9	< 0.1	4.7	< 0.05	38
	04/14/05	180	180	140	5.84	< 0.1	5.3	< 0.05	36
	03/22/05	170	170	100	8.6	< 0.1	5.8	< 0.05	26
	12/17/04	370	370	130	6.7	< 0.1	25	< 0.05	77
BB3SW104	05/23/06	180	180	95	9.84	0.1	2.8	< 0.05	29
	03/08/06	160	160	71	8.32	< 0.1	4.5	< 0.05	25
DUP0308063B	03/08/06	140	140	72	--	< 0.1	4.5	< 0.05	25
BB3SW104CL	03/08/06	131	131	75.7	--	< 1 U	5.02	< 0.02 U	24.2

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001.
2 - Piezometer was abandoned prior to the remedial action following Second Quarter 2004 in preparation for the remedial action.
3 - BB3PZ101 was formerly named BB3SW103.
4 - Groundwater cleanup levels were taken from the *Remedial Action Plan for Fill Site 6A and Baker Beach Disturbed Areas 3 and 4, Presidio of San Francisco, California* (Treadwell & Rollo, 2003c).
mg/L - milligrams per liter
NA - not analyzed
NM - not measured
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-14-2
Results of TPH Analyses
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Location ID	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**443**	**880**	**1,200**
BB3GW100	05/23/06	< 50	< 50	< 300
DUP0523063A	05/23/06	< 50	< 50	< 300
	03/16/06	< 50	78 HY	< 300
	11/30/05	< 50	< 50	< 300
DUP1130053A	11/30/05	< 50	< 50	< 300
BB3GW100CL	11/30/05	< 50 U	< 50 U	< 300 U
	08/31/05	< 50	< 50	< 300
	05/24/05	< 50	< 50	< 300
	03/22/05	< 50	< 50	< 300
DUP0322053A	03/22/05	< 50	< 50	< 300
	12/14/04	< 50	< 50	< 300
BB3GW101	05/24/05	< 50	< 50	< 300
	03/22/05	< 50	< 50	< 300
BB3PZ101 [3]	03/16/06	78 YZ	81 HY	< 300
	03/22/05	< 50	< 50	< 300
	12/16/04	< 50	< 50	< 300
BB3PZ102	03/15/06	< 50	< 50	< 300
BB3SW100	03/15/06	< 50	< 50	< 300
	12/01/05	< 50	< 56	< 330
BB3SW101	03/15/06	< 50	< 50	< 300
	12/01/05	< 50	< 50	< 300
	03/22/05	< 50	< 50	< 300
	12/17/04	< 50	NA	NA
BB3SW102	03/15/06	< 50	< 50	< 300
	05/24/05	< 50	< 50	< 300
	03/22/05	< 50	< 50	< 300
	12/17/04	< 50	< 50	< 300
BB3SW104	05/23/06	< 50	< 50	< 300
	03/08/06	< 50	< 50	< 300
DUP0308063B	03/08/06	< 50	< 50	< 300
BB3SW104CL	03/08/06	< 50 U	< 50 U	< 300 U

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001.
2 - Groundwater cleanup levels were taken from the *Remedial Action Plan for Fill Site 6A and Baker Beach Disturbed Areas 3 and 4, Presidio of San Francisco, California* (Treadwell & Rollo, 2003c).
3 - BB3PZ101 was formerly named BB3SW103.
µg/L - micrograms per liter
TPH - total petroleum hydrocarbons
NA - not analyzed
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-14-3
Results of Total and Dissolved Metals Analyses
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Location ID	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW7470	SW6010	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [2]		**--**	**6**	**10**	**1,000**	**4**	**1.1**	**--**	**50**	**--**	**11.8**	**--**	**--**	**--**	**--**	**--**	**--**	**100**	**--**	**5**	**4.1**	**--**	**2**	**--**	**106**	**--**
BB3GW100	05/23/06	< 100	< 1	< 5	81	< 2	< 1	22,000	< 10	< 10	1.1	< 100	< 3	74,000	< 10	NA	NA	< 20	600	< 5	< 1	97,000	< 1	< 10	< 20	640
DUP0523063A	05/23/06	< 100	< 1	< 5	77	< 2	< 1	21,000	< 10	< 10	1.6	< 100	< 3	72,000	< 10	NA	NA	< 20	640	< 5	< 1	95,000	< 1	< 10	< 20	660
	03/16/06	< 100 UJ	< 1	< 5	89	< 2	< 1	24,000	< 10	< 10	< 1	< 100	< 3	81,000	< 10	NA	NA	< 20	700	< 5	< 1	100,000 J	< 1	< 10	< 20	890 J
	11/30/05	< 100	< 1	< 5	93	< 2	< 1	29,000	11 J	< 10	1	160	< 3	97,000	27	NA	NA	< 20	980	< 5	< 1	120,000	< 1	< 10	< 20	810
DUP1130053A	11/30/05	< 100	< 1	< 5	91	< 2	< 1	31,000	< 10 UJ	< 10	< 1	100	< 3	100,000	22	NA	NA	< 20	970	< 5	< 1	130,000	< 1	< 10	< 20	860
BB3GW100CL	11/30/05	< 100 U	< 2 U	< 2 U	100	< 1 U	< 1 U	33,000	13	< 1 U	2	< 100 U	< 1 U	100,000	18	NA	NA	19	< 5,000 UN	3.7	< 1 U	120,000	< 1 U	< 10 U	< 20 U	831
	08/31/05	< 100	< 1	< 5	< 10	< 2	< 1	16,000	29	< 10	< 1	160	< 3	70,000	< 10	NA	NA	< 20	2,500 J	< 5	< 1	120,000	< 1	< 10	< 20	910
	05/24/05	< 100 UJ	< 1	< 5	82	< 2	< 1	26,000	< 10	< 10	1.6	< 100	< 3	80,000	< 10	NA	NA	20	670	< 5	< 1	110,000	< 1	< 10	< 20	810
	03/22/05	< 100	< 1	< 5	73	< 2	< 1	22,000	< 10	< 10	1.1	100	< 3	78,000	< 10	NA	NA	< 20	670	< 5	< 1	110,000	< 1	< 10	< 20	330
DUP0322053A	03/22/05	< 100	< 1	< 5	70	< 2	< 1	20,000	< 10	< 10	1.1	100	< 3	73,000	< 10	NA	NA	< 20	630	< 5	< 1	100,000	< 1	< 10	< 20	770
	12/14/04	< 100	< 1	< 5	68	< 2	< 1	32,000 J	14	< 10	< 1	< 100	< 3	98,000	< 10	NA	NA	22	1,400	< 5	< 1	130,000	< 1	< 10	< 20	2,280
BB3GW101	03/22/05	< 100	< 1	5.1	18	< 2	< 1	63,000	46	< 10	4.9	310	< 3	120,000	< 10	NA	NA	< 20	6,500	< 5	< 1	160,000	< 1	< 10	22	1,180
BB3PZ101 [3]	03/16/06	< 100 UJ	< 1	< 5	43	< 2	< 1	26,000	< 10	< 10	1.8	< 100	< 3	41,000	< 10	NA	NA	< 20	2,400	< 5	< 1	65,000 J	< 1	< 10	< 20	600 J
	03/22/05	< 100	< 1	< 5	68	< 2	< 1	45,000	< 10	< 10	2.7	240	< 3	59,000	< 10	NA	NA	< 20	3,900	< 5	< 1	83,000	< 1	< 10	< 20	560
	12/16/04	< 100	< 1	< 5	74	< 2	< 1	31,000	< 10	< 10	3.3	260	< 3	87,000	49	NA	NA	< 20	1,500	< 5	< 1	92,000	< 1	< 10	< 20	870
(Total)[4]	12/16/04	8,400	< 1	7.5	190	< 2	< 1	32,000	< 100	10	17	17,000	11	98,000	440	NA	NA	59	2,400	< 5	< 1	100,000	< 1	38	41	NA
BB3PZ102	03/15/06	< 2,000	< 1	< 5	19	< 2	< 1	20,000	< 10	< 10	2.6	310	< 3	30,000	54	NA	NA	< 20	1,800	< 5	< 1	52,000	< 1	< 10	< 20	540 J
(Total)	03/15/06	65,000	1.8	39	790	< 2	3.5	35,000	440	190	96	120,000	86	56,000	22,000	NA	NA	1,200	5,100	< 5	< 1	52,000	< 1	300	480	NA
BB3SW100	12/01/05	170	< 1	< 5	11	< 2	< 1	7,200	< 10	< 10	4.5	860	< 3	9,100	340	NA	NA	31	2,800	< 5	< 1	100,000	< 1	< 10	< 20	430
(Total)[4]	12/01/05	7,600	< 1	10	92	< 2	< 1	14,000	46	22	23	19,000	40	13,000	1,200	NA	NA	99	3,500	< 5	< 1	110,000	< 1	58	290	NA
	03/22/05	380	< 1	< 5	< 10	< 2	< 1	4,700	< 10	< 10	5.2	890	< 3	4,000	210	NA	NA	54	2,100	< 5	< 1	70,000	< 1	< 10	< 20	1,500
BB3SW101	05/23/06	< 100	< 1	< 5	13	< 2	< 1	6,500	< 10	< 10	3.2	< 100	< 3	9,700	78	NA	NA	< 20	1,000	< 5	< 1	33,000	< 1	< 10	< 20	NA
(Total)	05/23/06	5,600	< 1	< 5	92	< 2	< 1	9,300	25	12	11	8,400	10	14,000	380	NA	NA	51	1,400	< 5	< 1	34,000	< 1	26	61	NA
	12/01/05	< 100	< 1	< 5	17	< 2	< 1	13,000	< 10	< 10	1.4	< 1,000	< 3	16,000	790	NA	NA	< 20	1,700	< 5	< 1	38,000	< 1	< 10	< 20	200
(Total)[4]	12/01/05	< 1,000	< 1	< 5	29	< 2	< 1	13,000	< 10	< 10	7.5	2,000	8.2	18,000	960	NA	NA	< 20	1,800	< 5	< 1	49,000	< 1	17	< 20	NA
	05/24/05	< 100 UJ	< 1	< 5	23	< 2	< 1	11,000	< 10	< 10	2.9	170	< 3	15,000	20	NA	NA	< 20	1,400	< 5	< 1	45,000	< 1	< 10	< 20	330
(Total)[4]	05/24/05	13,000	< 1	5.3	130	< 2	< 1	16,000	62	26	18	16,000	24	21,000	940	NA	NA	88	2,500	< 5	< 1	46,000	< 1	43	94	NA
	04/14/05	< 100	< 1	< 5	17	< 2	< 1	13,000	< 10	< 10	3.8	< 100	< 3	18,000	40	NA	NA	< 20	1,400	< 5	< 1	49,000	< 1	< 10	< 20	NA
(Total)[4]	04/14/05	6,000	< 1	< 5	59	< 2	< 1	17,000	29	< 10	8.8	8,200	12	20,000	290	NA	NA	39	2,300	< 5	< 1	48,000	< 1	18	49	NA
	03/22/05	< 100	< 1	< 5	19	< 2	< 1	15,000	< 10	< 10	2.7	110	< 3	22,000	63	NA	NA	< 20	1,700	< 5	< 1	52,000	< 1	< 10	< 20	400
BB3SW102	05/23/06	< 100	< 1	< 5	56	< 2	< 1	15,000	**64**	< 10	1	< 100	< 3	83,000	< 10	NA	NA	< 20	890	< 5	< 1	76,000	< 1	< 10	< 20	470
(Total)	05/23/06	2,200	< 1	< 5	120	< 2	< 1	15,000	64	< 10	8.9	3,600	6.9	79,000	380	NA	NA	31	1,200	< 5	< 1	73,000	< 1	16	36	NA
	03/15/06	< 100	< 1	< 5	55	< 2	< 1	16,000	**60**	< 10	< 1	< 100	< 3	91,000	< 10	NA	NA	< 20	760	< 5	< 1	84,000	< 1	< 10	< 20	780 J
(Total)	03/15/06	22,000	< 1	11	210	< 2	< 1	17,000	170	24	30	30,000	31	98,000	990	NA	NA	120	2,600	< 5	< 1	83,000	< 1	79	85	NA
	05/24/05	< 100 UJ	< 1	< 5	43	< 2	< 1	18,000	**52**	< 10	2.1	< 100	< 3	81,000	< 10	NA	NA	< 20	970	< 5	< 1	76,000	< 1	< 10	< 20	660
(Total)[4]	05/24/05	4,600	< 1	< 5	220	< 2	< 1	22,000	56	37	29	5,900	26	89,000	1,300	NA	NA	130	1,300	< 5	< 1	74,000	< 1	45	65	NA
	04/14/05	< 100	< 1	< 5	35	< 2	< 1	22,000	46	< 10	1.2	< 100	< 3	62,000	< 10	NA	NA	< 20	1,200	< 5	< 1	62,000	< 1	< 10	< 20	NA
(Total)[4]	04/14/05	10,000	< 1	5.5	280	< 2	< 1	32,000	93	46	40	15,000	31	76,000	2,000	NA	NA	150	2,400	< 5	< 1	64,000	< 1	58	93	NA
	03/22/05	< 100	< 1	< 5	25	< 2	< 1	20,000	30	< 10	1.3	160	< 3	45,000	< 10	NA	NA	< 20	1,200	< 5	< 1	47,000	< 1	< 10	< 20	420
	12/17/04	< 100	< 1	< 5	37	< 2	< 1	24,000	36	< 10	2.6	< 100	< 3	83,000	18	NA	NA	< 20	1,100	< 5	< 1	59,000	< 1	< 10	35	< 20
(Total)[4]	12/17/04	9,600	< 1	6.3	140	< 2	< 1	23,000	100	24	30	16,000	23	95,000	780	NA	NA	150	1,700	< 5	< 1	61,000	< 1	49	63	NA

Table A-14-3
Results of Total and Dissolved Metals Analyses
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Location ID	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW7470	SW6010	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [2]		--	**6**	**10**	**1,000**	**4**	**1.1**	--	**50**	--	**11.8**	--	--	--	--	--	--	**100**	--	**5**	**4.1**	--	**2**	--	**106**	--
BB3SW104	05/23/06	< 100	< 1	< 5	31	< 2	< 1	24,000	< 10	< 10	2.4	< 100	< 3	41,000	16	NA	NA	< 20	970	< 5	< 1	55,000	< 1	< 10	< 20	370
(Total)	05/23/06	2,700	< 1	< 5	160	< 2	< 1	28,000	19	11	8.9	3,100	11	41,000	360	NA	NA	37	1,200	< 5	< 1	51,000	< 1	22	50	NA
	03/08/06	< 100	< 1	< 5	18	< 2	< 1	18,000	< 10	< 10	2.5	< 100	< 3	32,000	< 10	NA	NA	< 20	1,200	< 5	< 1	44,000	< 1	< 10	24	400
(Total)	03/08/06	3,200	< 1	< 5	100	< 2	< 1	23,000	26	11	13	5,400	14	40,000	320	NA	NA	43	1,600	< 5	< 1	44,000	< 1	21	58	NA
DUP0308063B	03/08/06	< 100	< 1	< 5	19	< 2	< 1	18,000	< 10	< 10	2.7	< 100	< 3	33,000	10	NA	NA	< 20	1,100	< 5	< 1	45,000	< 1	< 10	< 20	380
(Total)	03/08/06	4,000	< 1	< 5	110	< 2	< 1	24,000	29	12	12	6,400	16	41,000	360	NA	NA	45	1,500	< 5	< 1	44,000	< 1	24	62	NA
BB3SW104CL	03/08/06	< 100 U	< 2 U	< 2 U	21	< 1 U	< 1 U	21,000	12	< 1 U	3.0	< 100 U	< 1 U	36,000	11	NA	NA	10	< 5,000 U	< 2 U	< 1 U	49,000	< 1 U	< 10 U	< 20 U	348
(Total)	03/08/06	5,300	< 2 U	2.5	130	< 1 U	< 1 U	28,000	42	9	8.4	7,300 J+	8.4	42,000	370	NA	NA	38	< 5,000 U	< 2 U	< 1 U	54,000	< 1 U	29	54	NA

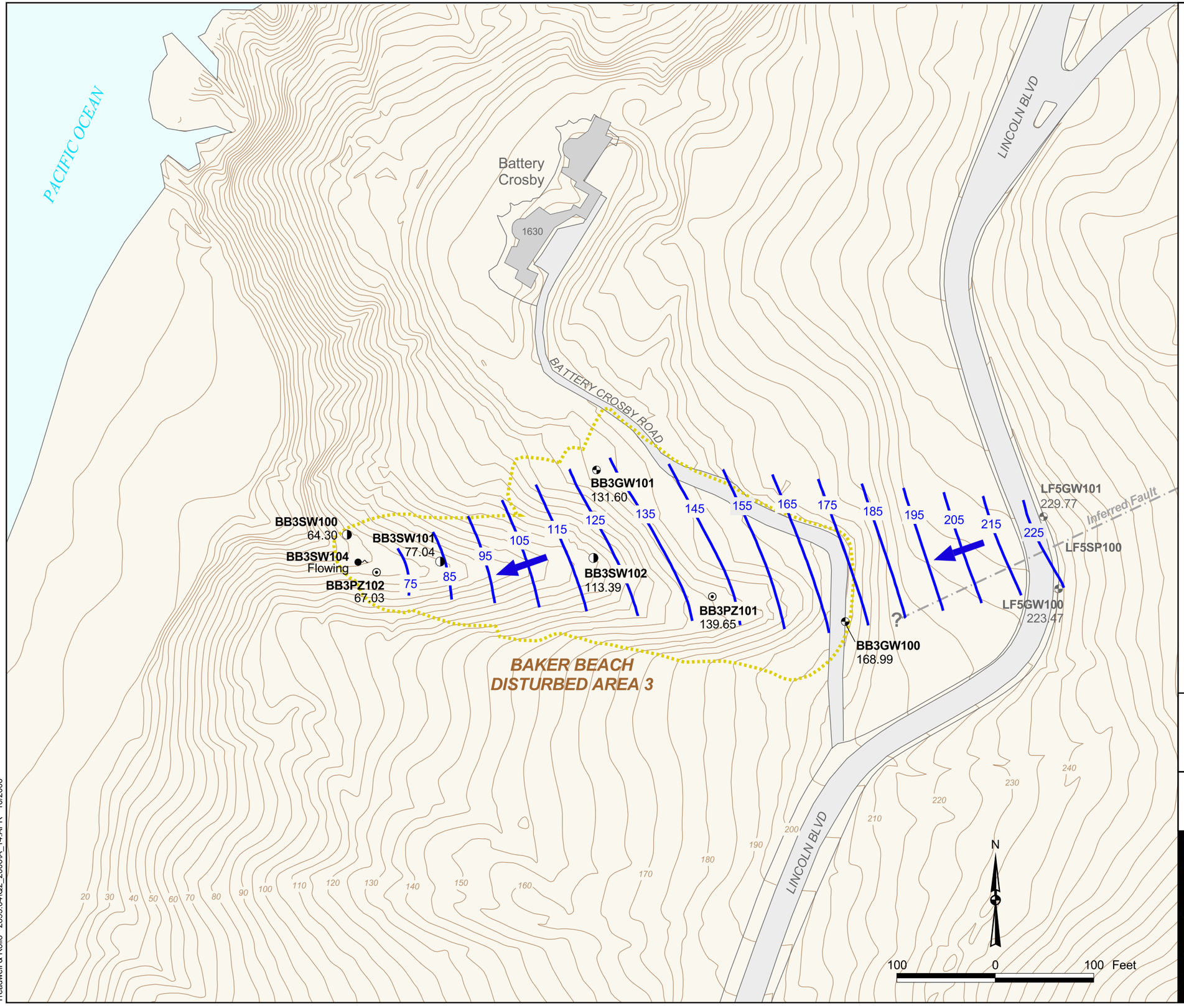
Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001.
2 - Groundwater cleanup levels were taken from the *Remedial Action Plan for Fill Site 6A and Baker Beach Disturbed Areas 3 and 4, Presidio of San Francisco, California* (Treadwell & Rollo, 2003c).
3 - BB3PZ101 was formerly named BB3SW103.
4 - **Bold** numbers indicate concentrations of dissolved metals which exceed cleanup criteria. RAP cleanup criteria apply only to dissolved metals concentrations.
All metals results represent dissolved metals, unless indicated as "total" in the left-hand column for total metal results.
mg/L - milligrams per liter
µg/L - micrograms per liter
NA - not analyzed
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-14-4
Groundwater Elevation Summary
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Location ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
BB3GW100	05/22/06	25.40	193.84	168.44	MW
	03/06/06	24.85	193.84	168.99	MW
	11/28/05	32.47	193.84	161.37	MW
	08/29/05	30.82	193.84	163.02	MW
	05/23/05	27.35	193.84	166.49	MW
	03/14/05	23.40	193.84	170.44	MW
	12/13/04	32.80	193.84	161.04	MW
BB3GW101	05/22/06	26.05	158.28	132.23	MW
	03/06/06	26.68	158.28	131.60	MW
	11/28/05	27.25	158.28	131.03	MW
	08/29/05	27.25	158.28	131.03	MW
	05/23/05	26.60	158.28	131.68	MW
	03/14/05	26.40	158.28	131.88	MW
	12/13/04	Dry	158.28	130.63 [2]	MW
BB3PZ101 [3]	05/22/06	Dry	156.97	Dry	PZ
	03/06/06	17.32	156.97	139.65	PZ
	11/28/05	Dry	156.97	139.97 [2]	PZ
	08/29/05	Dry	156.97	139.97 [2]	PZ
	05/23/05	Dry	156.97	139.97 [2]	PZ
	03/14/05	16.23	156.97	140.74	PZ
	12/13/04	16.80	156.97	140.17	PZ
BB3PZ102	05/22/06	Dry	73.18	Dry	PZ
	03/06/06	6.15	73.18	67.03	PZ
BB3SW100	05/22/06	3.96	67.34	63.38	FMP
	03/06/06	3.04	67.34	64.30	FMP
	11/28/05	4.15	67.34	63.19	FMP
	08/29/05	4.19	67.34	63.15	FMP
	05/23/05	4.10	67.34	63.24	FMP
	03/14/05	3.62	67.34	63.72	FMP
	12/13/04	Dry	67.34	--	FMP
BB3SW101	05/22/06	2.36	78.98	76.62	FMP
	03/06/06	1.94	78.98	77.04	FMP
	11/28/05	2.86	78.98	76.12	FMP
	08/29/05	3.00	78.98	75.98	FMP
	05/23/05	1.75	78.98	77.23	FMP
	03/14/05	1.85	78.98	77.13	FMP
	12/13/04	3.22	78.98	75.76	FMP
BB3SW102	05/22/06	1.93	115.39	113.46	FMP
	03/06/06	2.00	115.39	113.39	FMP
	11/28/05	Dry	115.39	112.89 [2]	FMP
	08/29/05	Dry	115.39	112.89 [2]	FMP
	05/23/05	2.33	115.39	113.06	FMP
	03/14/05	1.68	115.39	113.71	FMP
	12/13/04	2.73	115.39	112.66	FMP
BB3SW104	05/22/06	Flowing	66.07	66.07	Surface
	03/06/06	Flowing	66.07	66.07	Surface

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
2 - Value indicates bottom of casing elevation in PLLW.
3 - BB3PZ101 was formerly named BB3SW103. Additionally, the depth to water measurement (14.45 feet) during the Fourth Quarter 2004 was measured from the ground surface. Subsequently, the ground and the top of casing elevations were surveyed and the depth to water measurement was converted to a top of casing measurement (16.80 feet).

FMP - Fixed Water Monitoring Point
MW - Monitoring Well
PZ - Piezometer
feet PLLW - feet above Presidio lower low water vertical datum



LEGEND

BB3GW100 168.99	Groundwater Monitoring Well March 2006 Groundwater Elevation
BB3PZ101 139.65	Piezometer March 2006 Groundwater Elevation
BB3SW100 64.30	Fixed Water Monitoring Point March 2006 Groundwater Elevation
BB3SW104	Surface Water Seep
LF5GW100 223.47	Adjacent Study Area Well March 2006 Groundwater Elevation
	Approximate Direction of Groundwater Flow
	Groundwater Elevation Contour (Contour Interval : 10 ft)
	Limits of Excavated Fill
	Inferred Fault
	Topographic Contour (Contour Interval : 5 ft)
1630	Building and Number

Notes:
Groundwater elevation data collected 6 March 2006.

The Fixed Water Monitoring Points were not used in groundwater contouring.

Location of inferred fault from Revised Feasibility Study Main Installation Sites (EKI, 2003).

Post-excavation topography within limits of excavation fill surveyed by R.W. Davis & Associates on 2 December 2004.

Base map provided by the Presidio Trust in June 2003.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

BAKER BEACH DISTURBED AREA 3 SITE PLAN AND 6 MARCH 2006 GROUNDWATER ELEVATION MAP

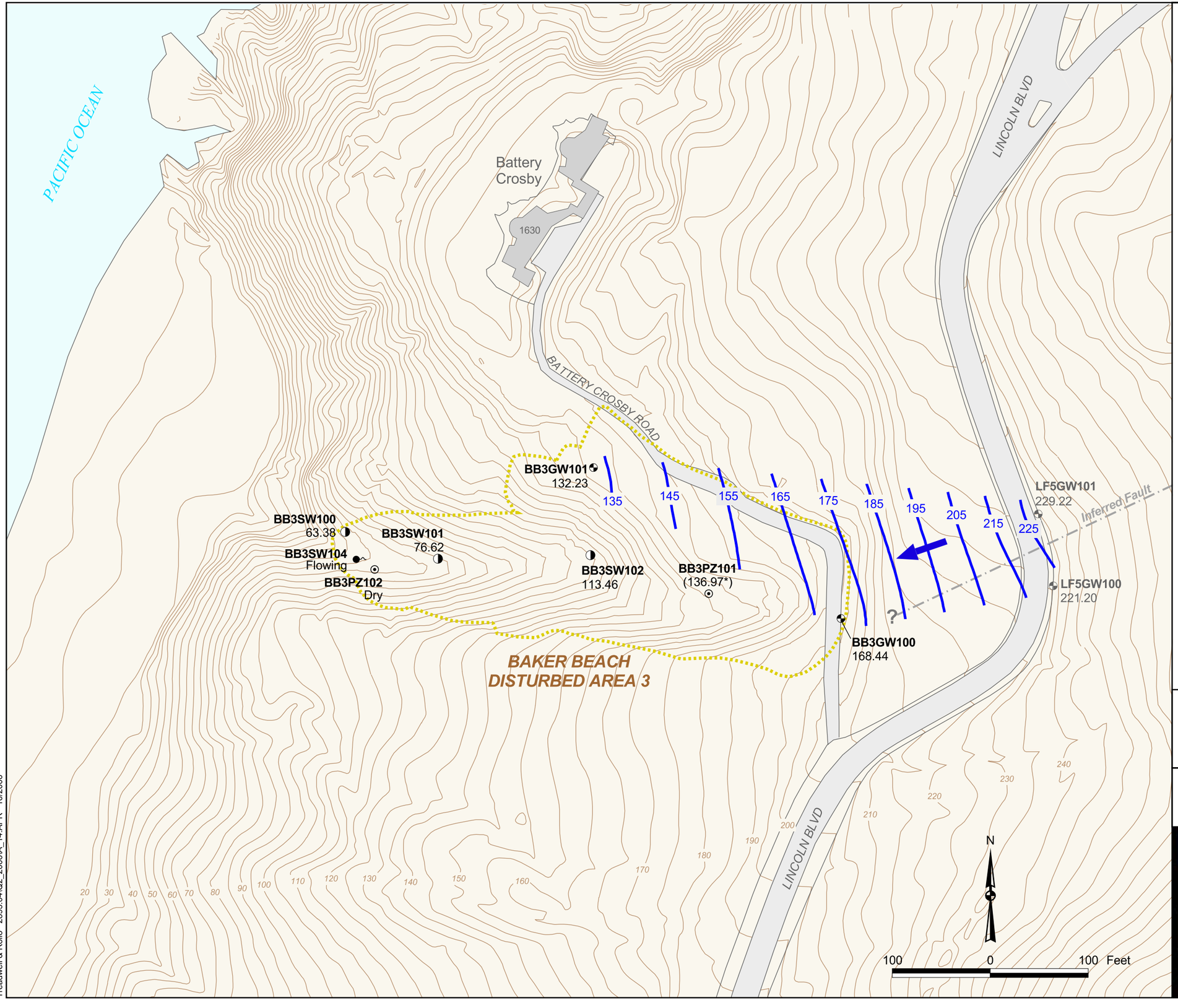
Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315
October 2006

FIGURE A-14-1

Treadwell & Rollo 2893.04\Q2_2006\A_14.APR 10/2006



LEGEND

BB3GW100 168.44	Groundwater Monitoring Well May 2006 Groundwater Elevation
BB3PZ101 (136.97*)	Piezometer May 2006 Groundwater Elevation
(136.97*)	Dry Well. Value Indicates Bottom of Casing Elevation in Feet PLLW
BB3SW100 63.38	Fixed Water Monitoring Point May 2006 Groundwater Elevation
BB3SW104	Surface Water Seep
LF5GW100 221.20	Adjacent Study Area Well May 2006 Groundwater Elevation
	Approximate Direction of Groundwater Flow
	Groundwater Elevation Contour (Contour Interval : 10 ft)
	Limits of Excavated Fill
	Inferred Fault
	Topographic Contour (Contour Interval : 5 ft)
1630	Building and Number

Notes:
Groundwater elevation data collected 22 May 2006.

The Fixed Water Monitoring Points were not used in groundwater contouring.

Location of inferred fault from Revised Feasibility Study Main Installation Sites (EKI, 2003).

Post-excavation topography within limits of excavation fill surveyed by R.W. Davis & Associates on 2 December 2004.

Base map provided by the Presidio Trust in June 2003.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

BAKER BEACH DISTURBED AREA 3 SITE PLAN AND 22 MAY 2006 GROUNDWATER ELEVATION MAP

Treadwell&Rollo

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315
October 2006

FIGURE A-14-2

Treadwell & Rollo 2893.04\Q2_2006\A_14.APR 10/2006

First Quarter 2006

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Baker Beach
Well No.: BB3GW100
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: John DeJong
Sampled by: John DeJong
Date: 3/16/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 38.62
Depth to Water (WL, ft. below TOC): 23.14
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged
[ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow
[ ] Normal
[X] Modified (max 5 gpm)
[X] Bailer \ Type: Disp
[ ] Pump \ Type
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[X] Other N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate
Purge Rate ~.3gpm

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI, HACH, Myron L

Time	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1101	INITIAL	6.81	14.7	pre: 0.20	1200	—	6	clear
1104	0.9	6.42	15.2	—	1229	—	24	↓
1107	1.8	6.40	15.2	—	1265	—	46	↓
1110	2.7	6.40	15.3	post: 0.56	1269	—	33	↓

Comments
Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/16/06 / 1115

Purging Equipment: Pump - Type ____ Bailer - Type Disp Other ____

Sample Filtered: Yes / No (circled: No) Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BB3GW100	3 HCl VOCs	CTR		
	1 HNO3	↓		
	1 L poly			
	1 L Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Baker Beach Well No.: BB36W101

Project Number: 2893 Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeJong Sampled by: John DeJong Date: 3/16/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 28.00

Depth to Water (WL, ft. below TOC): 26.54

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp

[ ] Normal [ ] Pump \ Type

[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[X] Other: N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate Purge Rate ~0.1 gpm gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI, HACH, Myron L

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1140	Initial	7.14	14.5	Pre 5.11	1328	—	12	clear
1143	0.3	7.20	14.8	—	1273	—	18	↓
1146	0.6	7.18	14.9	—	1246	—	17	
1149	0.9	7.18	14.9	post	1226	—	16	

Well Dewatered During Sampling left well for later
No recharge → Brought Bottles collected
Due to custody suspection.

Comments: Double checked D.O Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: /

Purging Equipment: Pump - Type Bailer - Type: Disp Other

Sample Filtered: Yes / No Filtered Sample Analysis: ~~Metals~~ NM

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Baker Beach
Well No.: BB3GW101
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: John DeJong
Sampled by: John DeJong
Date: 3/21/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 38.00
Depth to Water (WL, ft. below TOC): 27.06
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged
[ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/	Insufficient water to purge (per Client)						
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments
Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled /

Purging Equipment Pump - Type Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Baker Beach
Well No.: BB3PZ101
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: John DeJong
Sampled by: John DeJong
Date: 3/16/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 18.45

Depth to Water (WL, ft. below TOC): 16.61

Depth to free phase (FP, ft. below TOC):

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

PURGE METHOD

[ ] Low Flow
[ ] Normal
[X] Modified (max 5 gpm)
[X] Bailer \ Type: DISP.
[ ] Pump \ Type
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[X] Other: N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate ~.1gpm

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI, HACH, Myron L

Time	Liters or Gallons	pH	Temp (C) °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
~~Initial~~	~~Initial~~	~~15.3~~	~~6.71~~	Pre: 7.41				
1015	Initial	6.71	15.3	—	719	—	212	cloudy
1018	0.3	6.47	15.4	—	728	—	>1000	
1021	0.6	6.40	15.2	—	752	—	>1000	
1024	0.9	6.38	15.2	post: 8.11	769	—	>1000	

Comments: Double checked D.O cal. readings

Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/16/06 / 1030

Purging Equipment: Pump - Type: Bailer - Type: DISP Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metal

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BB3PZ101	3 40 ml vials	CTF		
	1 Nonmetal			
	1 HNO3			
	1 Poly			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Baker Beach Well No.: BB3PZ102

Project Number: 2893 Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeJong Sampled by: John DeJong Date: 3/15/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 7.66

Depth to Water (WL, ft. below TOC): 6.45

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: DISP

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate Purge Rate: 2.05 gpm gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI HACH, Myron L

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1405	Initial	6.83	11.9	pre: 3.84	602	—	>1000	Brown
1408	0.3	6.94	11.4	—	600	—	>1000	
1411	0.6	6.91	11.0	—	600	—	>1000	
1414	0.9	6.95	11.1	post: 3.71	601	—	>1000	

Comments: Kathie checked D.O. readings Purge water storage/disposal: [ ] Drummed onsite [X] Other: Bake tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/15/06, 1420

Purging Equipment: Pump - Type Bailer - Type: DISP Other

Sample Filtered: (Yes) No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BB3PZ102	2 HNO3	CFT	2044	
	1 Poly L			
	1 NP Amber			
	3 VOAs HCl			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Baker Beach — Well No.: BB3SW100

Project Number: 2993 — Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeJong — Sampled by: John DeJong — Date: 3/16/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 4.81

Depth to Water (WL, ft. below TOC): 3.48

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp

[ ] Normal [ ] Pump \ Type

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[X] Other: N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate — Purge Rate: 0.1 gpm — gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS — Meter Type: YSI, TAC II, Myron L

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1340	initial	6.86	15.2	Pk 20	552	—	204	
1343	0.3	6.55	14.2	—	625	—	863	
	well Dewatered							
	returned to sample @ 1450					Filled	some Bottles	
	& then well Dewatered moved on.							
	1450 → start filling Bottles					well Dewatered		
	1605 → return to fill Bottles well Dewatered							
3/16/06 0930	returned & only able to fill 3 HCl VOAs & 1 No Amber							

Comments: Double check DO readings

Purge water storage/disposal: [ ] Drummed onsite [X] Other: Bakerfield

WELL SAMPLING

SAMPLING METHOD — Date/Time Sampled: 3/15/06 1450

Purging Equipment: Pump - Type — Bailer Type: Disp — Other

Sample Filtered: Yes / No — Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BB3SW100	~~2 HNO3~~ 1 No Amber	CFT	2044	
	~~1 No Amber~~			
	~~1 No Bottle~~			
	3 HCl VOAs			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Baker Beach Well No.: BB3SW101

Project Number: 28893 Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeJong Sampled by: John DeJong Date: 3/15/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 3.61

Depth to Water (WL, ft. below TOC): 2.25

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: DISP

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other: N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate Purge Rate: ~ 0.05 gpm

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI, HACH, Myron

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1508	Initial	7.21	15.8	pre 7.56	300	—	111	
1511	0.15	6.68	14.3	—	286	—	129	
1514	0.2	well	Dewatered					
15 MD			left well & will		return later			
		1555	arrive & start to fill		Bottles → well Dewaters			
	3/6/06	0940	return to well		only able to			
		get 3 HCl VOCs & 1 LNP Ammo						

Comments: Dashie checked D.O. readings Purge water storage/disposal: [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/15/06 / 1600

Purging Equipment: Pump - Type: Bailer - Type: DISP Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BB3SW101	3 HCl	CTF	2094	
	1 NO3 Amber			
	~~1 L poly~~ MD			
	~~2 HNO3~~ MD			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Baker Beach Well No.: BB3SW102

Project Number: 2893 Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeLong Sampled by: John DeLong Date: 3/14/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 3.20

Depth to Water (WL, ft. below TOC): 2.27

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other: N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate Purge Rate: ~.059 gpm gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI, Myron L, HACH

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1527	Initial	6.75	15.4	Pre: 4.58	1199	—	29	Clear
1530	0.15	6.87	15.2	—	1155	—	767	Cloudy
1533	0.30	6.88	15.3	—	1148	—	>1000	
1536	0.45	6.88	15.0	Post: 4.60	1125	—	>1000	

Comments: Double Checked DO readings Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/15/06 / 1540

Purging Equipment: Pump - Type: Bailer - Type: Disp Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BB3SW102	3 VOAs	CT	2044	
	1 NP poly			
	1 NP Amber			
	2 HNO3			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Baker Beach
Well No.: BB3SW104
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other Seep
Recorded By: John DeJong
Sampled by: John DeJong
Date: 3/8/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[ ] 2-inch [ ] 4-inch [ ] Other Surface

Well Total Depth (TD, ft. below TOC) :
Depth to Water (WL, ft. below TOC) :
Depth to free phase (FP, ft. below TOC) :

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

Number of borehole volumes to be purged
[ ] 3 [X] Not Applicable [ ] Other

PURGE METHOD
[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [X] Other Surface

PUMP INTAKE
[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[X] Other Surface

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI, Hach, Myron L

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1330 / —	8.21	16.2	8.32	520	—	38	
/							
/							
/							
/							
/							
/							
/							
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Used 2 filters for HNO3 Diss metals Bottles filled Bottles 1/2 way w/one filter until it would not work then filled the rest of the way with filter #2

Comments
Purge water storage/disposal [ ] Drummed onsite [X] Other N/A

WELL SAMPLING

SAMPLING METHOD
Date/Time Sampled 3/8/06 , 1330

Purging Equipment Pump - Type Bailer Type DSP Other
Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BB3SW104	8 HNO3 poly	CTT	2027	
	12 HCl vocs			MS/MSD
	4 Na poly 1L			
	4 Na amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
BB3SW104	DUP0308063B @ 1335
	BB3SW104CL

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Second Quarter 2006

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BAKER BEACH
Well No.: BB3GW100
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: J. DeJong
Sampled by: J. DeJong
Date: 5/23/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 38.62
Depth to Water (WL, ft. below TOC): 25.50
Depth to free phase (FP, ft. below TOC): —

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow
[ ] Normal
[X] Modified (max 5 gpm)
[X] Bailer \ Type: DISP.
[ ] Pump \ Type:
[X] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[X] Other: N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:
Recharge Rate:
Purge Rate: .5 gpm

4.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: MYRON L / HACH / YSI 550

Time	Liters or Gallons	pH	Temp °C / °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1500	INITIAL	6.81	18.8	—	1102	—	15	
1503	1.5 gal	6.67	17.8	—	1152	—	63	
1506	3.0	6.70	17.3	—	1145		47	
1509	4.5	6.74	17.2	NM	1143	—	41	

Comments:
Purge water storage/disposal: [ ] Drummed onsite [X] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/23/06 / 1515

Purging Equipment: Pump - Type: N/A Bailer - Type: DISP Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BB3GW100	2 x 500 ml Poly HNO3	CAL	2110	
	2 x 1L Poly NP			
	2 x 1L Amber NP			
	6 x 40 ml VOAs HCL			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
BB3GW100	DUP0523063A
	Time 1520

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BAKER BEACH
Well No.: BB3 SW104
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: J. De Jong
Sampled by: J. DeJong
Date: 5/23/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[ ] 2-inch [ ] 4-inch [X] Other Seep

Well Total Depth (TD, ft. below TOC) :
Depth to Water (WL, ft. below TOC) :
Depth to free phase (FP, ft. below TOC) :

Number of borehole volumes to be purged
[ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [X] Other GRAB

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[X] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI, HACH, MYRON

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1326 / —	8.14	21.0	9.84	669.3	—	52	
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments
Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/23/06 / 1330

Purging Equipment: Pump - Type: Bailer - Type: Disp (for filtering) Other: GRAB

Sample Filtered: (Yes) / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BB3SW104	1 x 1L Poly NP	CSIT	2110	
	2 x 500mL Poly HNO_3			
	1 x 1L Amber NP			
	3 VOAs / 40mL HCL			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BAILEY BEACH
Well No.: BB3 SW 100
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: J. DeJong
Sampled by: J. DeJong
Date: 5/23/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 4.82
Depth to Water (WL, ft. below TOC): 4.08
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged
[ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow
[ ] Normal
[X] Modified (max 5 gpm)
[X] Bailer \ Type DISP.
[ ] Pump \ Type
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[X] Other N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate
Purge Rate
gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type Myron L / HACH

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1320 / INITIAL	7.12	19.3	—	521.0	—	52	
1321 / DISCHARGED @ ~.10 gal							
1350 / NO RECHARGE — UNABLE TO SAMPLE							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments
Purge water storage/disposal [ ] Drummed onsite [X] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled /

Purging Equipment: Pump - Type Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BAKER BEACH
Well No.: BB 3SW 101
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: J. DeJong
Sampled by: J. DeJong
Date: 5/23/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 3.62
Depth to Water (WL, ft. below TOC): 2.27
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type DISP.
[ ] Normal [ ] Pump \ Type
[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[X] Other N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time
Recherge Rate Purge Rate

0.25 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: MyRon L / HACH

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1300 / INITIAL	6.81	19.1	—	290.7	—	115	
1303 / 0.15	6.76	18.0	—	271.2	—	439	
1305 / 0.25	WELL DEWATERED						
1343 / RETURN TO SAMPLE							
/	not enough H2O for parameters or DO						
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments
Purge water storage/disposal [ ] Drummed onsite [X] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/23/06 / 1345

Purging Equipment: Pump - Type Bailer - Type DISP Other
Sample Filtered: (Yes) No Filtered Sample Analysis: METALS

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BB3SW101	2 x 500 ml Poly HNO3	CAL	2110	USED 2 FILTERS

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BAKER BEACH
Well No.: BB3SW102
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: J. DeJong
Sampled by: J. DeJong
Date: 5/23/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 3.20

Depth to Water (WL, ft. below TOC): 1.96

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow
[ ] Normal
[X] Modified (max 5 gpm)
[X] Bailer \ Type: DISP.
[ ] Pump \ Type:
[ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[X] Other: N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: .05

0.75 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: MYRON L/HACH/YSI 550

Time / Liters or Gallons	pH	Temp (C) °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
12:28 / INITIAL	7.33	17.9	—	1074	—	50	
12:31 / .15	7.34	17.4	—	1057	—	157	
12:34 / .30	7.36	17.3	—	1049	—	251	
12:37 / .45	7.29	17.2	—	1051	—	178	
12:40 / .60	7.34	17.5	—	1047	—	248	
12:43 / .75	7.27	17.5	6.30	1053	—	170	
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other TANK ONSITE

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/23/06 / 1250

Purging Equipment: Pump - Type: N/A Bailer - Type: DISP. Other:

Sample Filtered: (Yes) No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BB3SW102	2x500 HNO3	CAT	210	
	1x1L poly			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Baker Beach
Well No.: BB3PZ102
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: J. DeJong
Sampled by: N/A
Date: 5/23/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 6.98
Depth to Water (WL, ft. below TOC): Dry
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged
[ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time
Recherge Rate
Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/							
/							
/ Dry	— NOT	SAMPLED					
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments
Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled /

Purging Equipment: Pump - Type Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BAKER BEACH
Well No.: BB3PZ-101
Project Number: 7893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: J. DeJong
Sampled by: J
Date: 5/23/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 18.00
Depth to Water (WL, ft. below TOC): Dry
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged
[ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD
[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE
[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate
Purge Rate
gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/							
/							
/ WELL DRY ; NOT SAMPLED							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments
Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled /

Purging Equipment: Pump - Type Bailer - Type Other
Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Baker Beach 1 | Well No.: BB1PZ100

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: J. DeJong | Sampled by: J. DeJong | Date: 5/23/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 18.09

Depth to Water (WL, ft. below TOC): 3.40

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: DISP.

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other: N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate ~.3 gpm | 2.7 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI, HACH, Myron L

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
10:21 / INITIAL	8.19	15.1	—	1726	—	29	
10:24 / .9	8.20	14.1	—	1735	—	33	
10:27 / 1.8	8.19	13.9	—	1736	—	36	
10:30 / 2.7	8.15	14.0	DO: 3.51	1705	—	50	

Comments | Purge water storage/disposal: [ ] Drummed onsite [X] Other: Baker Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/23/06 / 10:35

Purging Equipment: Pump - Type | Bailer - Type: DISP. | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BB1PZ100	1L NP Poly	CAL	2110	
↓	2x 500 HNO3			
	5x 1L Amber NP			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BALON BEACH 1
Well No.: BB1 PZ101
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: J. DeJong
Sampled by: J. DeJong
Date: 5/23/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 12.43

Depth to Water (WL, ft. below TOC): 4.77

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow
[ ] Normal
[X] Modified (max 5 gpm)
[X] Bailer \ Type: DISP.
[ ] Pump \ Type
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[X] Other: N/A

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate ~3gpm

7.5 gals ACTUAL PURGE VOLUME

Meter Type: MYRON L / HACH / YSI 550

GROUNDWATER PARAMETER MEASUREMENTS

Time	Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
0936	Baseline	7.36	14.8	—	1972	—	35	
0939	0.9	7.37	14.2	—	1999	—	224	
0942	1.8	7.34	13.8	—	2063	—	>1000	
0945	2.7	7.33	13.9	4.13	2226	—	>1000	

Comments

Purge water storage/disposal: [ ] Drummed onsite [X] Other: Parker Ranch

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/23/06 1000

Purging Equipment: Pump - Type: Bailer - Type: Disp Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BB1PZ101	1L poly	CFT	210	
↓	2 HNO3	↓		
	5 Ambers			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Baker Beach
Well No.: BB3GW101
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: J. DeTorg
Sampled by: J. DeTorg
Date: 5/23/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 28.00
Depth to Water (WL, ft. below TOC): 26.12
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged
[ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow
[ ] Normal
[X] Modified (max 5 gpm)
[X] Bailer \ Type: Disp
[ ] Pump \ Type:
[ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):
[ ] Near Bottom Depth (ft):
[X] Other: n/a

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:
Recharge Rate: Purge Rate: 0.2

0.9 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron L / Hach 1

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1545	initial	7.46	17.1	—	989	—	3	
1548	10.0	7.49	15.7	—	979	—	42	
1549	10.9	Dewatered						
5/24/06								
0915	Well recharge is not sufficient for sample							
	No sample DTW = 27.71							

Comments: Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: /

Purging Equipment: Pump - Type: Bailer - Type: Disp. Other:

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Baker Beach 2 — Well No.: BB2AGW100

Project Number: 2893 — Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: Jo DeJong — Sampled by: J. DeJong — Date: 5/23/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [X] Other Seep

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC):

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

gals ACTUAL PURGE VOLUME

Total Purge Time

Recharge Rate — Purge Rate

Meter Type

GROUNDWATER PARAMETER MEASUREMENTS

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/							
/	Not Flowing						
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments — Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD — Date/Time Sampled /

Purging Equipment: Pump - Type — Bailer - Type — Other

Sample Filtered: Yes / No — Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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LANDFILL 10
APPENDIX SECTION A-15
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2006
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

Landfill 10 is located in the southwestern portion of the Presidio within the former U.S. Public Health Services Hospital (PHSH) area (Figure 1). The site elevation is between approximately 110 and 190 feet above the PLLW datum (Figure A-15-1).

In 1874, the War Department established the area as a full-service U.S. Merchant Marine Hospital (USACE, 1990; ANL, 1989). Hospital operations were transferred in 1927 to the former PHSH. In the 1930s, the hospital was demolished and replaced by the existing site structure. Demolition debris from the first hospital is believed to have been placed in Landfill 10. The hospital was closed in 1981.

Since September 1994, monitoring wells at Landfill 10 have been analyzed for BTEX, TPH, dissolved metals, TDS and/or general chemistry parameters. A summary of analytical results are presented in Tables A-15-1 through A-15-3.

2.0 SITE DESCRIPTION AND GEOLOGY

Landfill 10 is located in the Lobos Creek Groundwater Area of the Lobos Creek Groundwater Basin (Figure 1). The depth to groundwater ranges from approximately 5 to 43 feet bgs and groundwater flow follows the general topographic trend toward the southwest (Montgomery Watson, 1996c).

The approximately two-acre site consists of a former helipad and parking lot (Stollar, 1993). The site is underlain by landfill debris consisting mainly of sand with construction debris and varying amounts of rock, clay, and silt. The landfill debris is underlain by dune sand. Beneath the sand is the Colma Formation, which in turn, overlies the Franciscan Formation bedrock (Montgomery Watson, 1996c).

3.0 PUBLIC HEALTH SERVICE HOSPITAL RECORD OF DECISION

In early 1995, the U.S. Army completed the Record of Decision (ROD) for the Former PHSH Area (PHSH ROD). The PHSH ROD addressed three remediation sites within the PHSH Area, including Landfill 10. The PHSH ROD proposed both soil and groundwater sampling at Landfill 10 to confirm that the fill material does not pose any threat to human health and the environment. In addition, the PHSH ROD required the installation of two monitoring wells downgradient of the fill material (LF10GW01 and LF10GW02) and one monitoring well upgradient of Lobos Creek (LF10GW03). These monitoring well locations are presented on Figure A-15-1. Following the installation of the wells, the PHSH ROD required quarterly groundwater monitoring for a minimum of 1 year to confirm that chemicals are not leaching from the fill material to the groundwater (Montgomery Watson, 1996c).

4.0 LANDFILL 10 SITE INVESTIGATION

The *Five-Year Review and Field Investigation Work Plan for Landfills 8 and 10* (FYR/WP) was finalized in October 2002 (URS, 2002). The objectives of the investigation at Landfill 10, as detailed in the FYR/WP, were as follows:

- To evaluate the stability of the existing site slopes under both static and dynamic (earthquake) loading conditions using a pseudo-static analysis;
- To select a seismically stable slope configuration;
- To evaluate a stable slope configuration with vegetative cover consistent with the Vegetation Management Plan and Environmental Assessment to prevent surface erosion;
- To characterize the subsurface distribution of geologic units (e.g., landfill waste, dune sand, Colma formation, and possibly bedrock, as well as the engineering properties of each unit);
- To investigate the approximate lateral extent of the landfill at the toe;
- To investigate the presence of site Potential Contaminants of Concern (PCOCs) in downgradient seeps located near Lobos Creek; and
- To install and sample one groundwater monitoring well (LF10GW100) to evaluate groundwater conditions within the landfill itself (the other three wells at the site are upgradient and downgradient).

The investigation was conducted between October and December 2002 and included:

- Five test borings near the crest of the landfill utilizing a truck-mounted drill rig to investigate subsurface stratigraphy and to provide samples for lithologic logging and laboratory testing;

- Five test borings on the steep south-facing slope of Landfill 10 utilizing portable equipment to provide information concerning the stratigraphy at the edge of the landfill, and samples for lithologic logging and laboratory testing of engineering properties;
- 13 test pit excavations in and around the existing parking lot and near the crest of the landfill slope to evaluate the approximate percentage and type of construction debris present in the landfill waste, as well as provide bulk samples for laboratory testing;
- Shallow hand auger borings to define the lateral extent of the landfill toe at the bottom of the fill slope;
- Two seep samples collected from the Lobos Creek area closest to Landfill 10; and
- One new monitoring well (LF10GW100) installed within the central-western portion of the landfill in the existing parking lot.

The *Five Year Review and Final Investigation Report for Landfills 8 and 10* (FYR) was submitted to the regulatory agencies and RAB in January 2004. A Focused Feasibility Study (FFS) for Landfills 8 and 10 has been prepared. Additionally, the Trust is currently writing a RAP and designing new remedial actions for the two landfill sites. The RAP is scheduled to be completed in 2008.

5.0 GROUNDWATER MONITORING

Landfill 10 has four associated monitoring wells and one surface water seep (Figure A-15-1). During the First Quarter 2006, groundwater elevations were measured at all four Landfill 10 wells and the surface water seep (Table 1A). During the Second Quarter 2006, three of the monitoring wells were measured (Table 1B). Monitoring well LF10GW02 and the surface water seep were inaccessible. Water-level meters were calibrated on 6 March and 22 May 2006. The calibration logs can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C.

Groundwater samples were collected from Landfill 10 monitoring wells LF10GW01, LF10GW03 and LF10GW100, during the First Quarter 2006. Samples were not collected from monitoring well LF10GW02 and surface water seep LF10SP01 due to inaccessibility issues. Groundwater samples were collected from monitoring wells LF10GW01 and LF10GW03, during the Second Quarter 2006. Monitoring well LF10GW100 and surface water seep LF10SP01 were scheduled for sampling during the Second Quarter 2006, but were inaccessible due to dense, overgrown vegetation. All sampling was conducted in accordance with Tables 1A and 1B during the First and Second Quarters 2006.

5.1 Groundwater-Level Measurements and Interpretation

Groundwater elevation measurements were collected on 6 March at all Landfill 10 monitoring wells and surface seep LF10SP01 during the First Quarter 2006. During the Second Quarter 2006, groundwater measurements were collected on the 22 May from three of the monitoring wells. Monitoring well LF10GW02 and the surface water seep, LF10SP01, were inaccessible and therefore, where not visited during the Second Quarter 2006. Groundwater elevations are summarized in Table A-15-4. Groundwater elevation maps showing groundwater contours and flow directions for Landfill 10 are included as Figures A-15-1 and A-15-2.

During the First Quarter 2006, groundwater elevations ranged from 102.78 to 143.06 feet above PLLW in LF10GW02 and LF10GW03, respectively (Figure A-15-1). During the Second Quarter 2006, groundwater elevations ranged from 109.90 to 144.45 feet above PLLW in LF10GW01 and LF10GW03, respectively (Figure A-15-2). In addition to the groundwater monitoring wells, the approximate location of LF10SP01 is posted on Figures A-15-1 and A-15-2. The groundwater elevations during the First and Second Quarters 2006 are consistent with historical elevations measured at Landfill 10.

Groundwater was determined to flow to the southwest following the general topographic trend during both quarters. The groundwater gradient was calculated to be approximately 0.15 feet per foot during the First Quarter 2006, and 0.14 feet per foot during the Second Quarter 2006. Groundwater gradients and flow directions are consistent with previous findings.

5.2 Monitoring Well Purging and Sampling

Landfill 10 monitoring wells LF10GW01, LF10GW03 and LF10GW100 were sampled during the First Quarter 2006. Samples were not collected from monitoring well LF10GW02 and surface water seep LF10SP01 due to overgrown vegetation and an inability to carry sampling equipment to these sampling locations. Groundwater samples were collected from monitoring wells LF10GW01 and LF10GW03, during the Second Quarter 2006. Monitoring well LF10GW02 and surface water seep LF10SP01 were scheduled for sampling during the Second Quarter 2006, but were not sampled due to overgrown vegetation and an inability to carry sampling equipment to these sampling locations. First Quarter 2006 sampling took place on 17 and 20 March 2006. Second Quarter 2006 sampling took place on 25 May 2006. All purging and sampling was performed using methods shown in Tables 1A and 1B and in accordance with procedures described in the FSP (Treadwell & Rollo, 2001a).

Purge equipment, purging volumes, purge water parameters, and sampling equipment for each monitoring well and the surface water seep are described in the purge records at the conclusion of this section. Purge water was stored for future disposal in one of two 2,800-gallon aboveground polyethylene storage tanks, which are located at the Central Magazine.

5.3 Groundwater Analytical Program

All groundwater and surface water samples collected were submitted to the project laboratory for the analyses shown in Tables 1A and 1B. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are shown in Table 5. Sample containers collected from each well are described in the purge records at the conclusion of this section.

QA/QC samples were collected as part of this program. Section 6.2 of the main report discusses the QA/QC sampling and analysis performed for the First and Second Quarters 2006.

6.0 GROUNDWATER ANALYTICAL RESULTS

During the First Quarter 2006, Landfill 10 monitoring wells LF10GW01, LF10GW03 and LF10GW100 were sampled and analyzed for general chemistry parameters, dissolved metals, TDS, dissolved oxygen, BTEX, and MTBE. In addition to these parameters, LF10GW100 was also analyzed for TPHg, TPHd, and TPHfo. Monitoring wells LF10GW01 and LF10GW03 were sampled during the Second Quarter 2006 for TPHg, TPHd, and TPHfo. Monitoring well LF10GW02 and surface water seep LF10SP01 were not sampled during the First and Second Quarters 2006 as they were inaccessible.

The TPHfo standard currently being used is a TPH as motor oil standard, as defined by the Presidio QAPP, with a carbon range of C24-C36. Section 5.4.3.1 in the main text discusses the data compatibility issues associated with TPH analyses.

6.1 Dissolved Oxygen

Table A-15-1 presents dissolved oxygen results. During the First Quarter 2006, dissolved oxygen was measured at concentrations ranging from 0.77 to 3.4 mg/L within LF10GW03 and LF10GW01, respectively. All measured concentrations of dissolved oxygen were within the range of historical values for Landfill 10. Dissolved oxygen was not measured during the Second Quarter 2006.

6.2 General Chemistry Results

General chemistry results are presented in Table A-15-1. General chemistry results were generally within historical ranges within LF10GW01, LF10GW03 and LF10GW100 during the First Quarter 2006. General chemistry results outside of historical bounds are discussed below.

Total alkalinity and bicarbonate were detected at new high concentrations of 250 mg/L within LF10GW01 during the First Quarter 2006. The previous high concentrations were both 190 mg/L.

All other general chemistry results detected at Landfill 10 during the First Quarter 2006 are generally consistent with historical values.

6.3 TPH Results

Monitoring well LF10GW100 was the only Landfill 10 monitoring well sampled for TPH analyses during the First Quarter 2006 (Table A-15-2). No TPH was detected above the laboratory's reporting limits for TPHg (<50 µg/L), TPHd (<50 µg/L) or TPHfo (<300 µg/L).

Monitoring wells LF10GW01 and LF10GW03 were sampled for TPH during the Second Quarter 2006 (Table A-15-2). No TPH was detected above the laboratory's reporting limits for TPHg (<50 µg/L), TPHd (<50 µg/L) or TPHfo (<300 µg/L) within LF10GW01 and LF10GW03 during the Second Quarter 2006.

6.4 BTEX and MTBE Results

Landfill 10 monitoring wells LF10GW01, LF10GW03, and LF10GW100 were sampled for BTEX and MTBE during the First Quarter 2006. No BTEX compounds were detected in any of the samples analyzed from Landfill 10 during the First Quarter 2006 as presented in Table A-15-2.

MTBE was detected at a concentrations of 3.6, 2.4, and 2.1 µg/L in monitoring wells LF10GW01, LF10GW03, and LF10GW100, respectively, during the First Quarter 2006. Previously, MTBE has been detected sporadically in samples from Landfill 10 monitoring wells and surface water seep LF10SP01.

A review of current and historical MTBE data and geographic distribution at Landfill 10 does not reveal clear trends in MTBE concentrations at Landfill 10. For example, MTBE has only been detected twice in monitoring well LF10GW02 and surface water seep LF10SP01. MTBE has been detected three times in monitoring well LF10GW01, four times in LF10GW03, and five times in LF10GW100. The concentrations of MTBE detected in Landfill 10 monitoring wells range from 2.1 to 11 µg/L. MTBE does not currently have an identified source at Landfill 10. Additionally, MTBE has not been detected in consecutive quarters within any of the Landfill 10 monitoring wells. MTBE detections at Landfill 10 may be caused by environmental factors such as runoff and the use of internal combustion engines, and may not represent a significant impact to groundwater.

MTBE has also been sporadically detected within wells located at the Building 1065, Building 231/207 and Commissary/PX Areas. These sites are all located in areas where high vehicular traffic is present, which supports the theory that the MTBE present may be caused by environmental factors such as runoff and the use of internal combustion engines.

6.5 Total and Dissolved Metals and TDS Results

Total and dissolved metals and TDS results for Landfill 10 are presented in Table A-15-3. The table below summarizes new high and low total and dissolved metals and TDS analytical results for the First and Second Quarters 2006 when compared to historical data, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the commencement date of sampling, and on the number of duplicate analyses performed.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Metals, Dissolved							
LF10GW100	Potassium	13 / 15	< 5,000 *	2,300	< 500 *	--	µg/L

Qualified data in the table above is indicated with an asterisk (*).

The only new low potassium was a laboratory reporting limit of 500 µg/L in LF10GW100. Potassium concentrations within LF10GW100 have previously ranged between 1,300 and 2,300 µg/L.

Metal detections will continue to be monitored at Landfill 10 sampling locations and trends will be developed as they become apparent.

7.0 CONCLUSIONS AND RECOMMENDATIONS

MTBE was detected for the fifth time in monitoring well LF10GW100 during the First Quarter 2006 at a concentration of 2.1 µg/L. However, MTBE has never been detected above its Drinking Water Cleanup Level of 13 µg/L, as listed in the Cleanup Levels Document (EKI, 2003), within LF10GW100 and therefore, these detections do not appear to be significant.. Additionally, clear trends in MTBE concentrations or geographic distribution have not been identified and this detection may not represent an impact to groundwater from Landfill 10. No other significant trends or observations were identified at Landfill 10 during the First and Second Quarters 2006.

The *Five Year Review and Final Investigation Report for Landfills 8 and 10* (FYR) was submitted to the regulatory agencies and RAB in January 2004. The FFS for Landfills 8 and 10 has been prepared. Additionally, the Trust is currently preparing a RAP and designing new remedial actions for the two landfill sites. The RAP is scheduled to be completed in 2007.

Table A-15-1
Results of General Chemistry Analyses
Landfill 10
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
LF10GW01	03/20/06	250	250	86	3.4	< 0.1	8.8	< 0.05	NA	49
	03/16/05	140	140	82	3.3	< 0.1	11	< 0.05	NA	49
	03/10/04	120	120	69	3.4	< 0.1	11	< 0.05	NA	46
	08/19/03	150	150	94	2.6	< 0.1	7.6 J-	< 0.05 UJ	NA	59
	06/10/03	170	170	97	3.9	< 0.1	9.9	< 0.05	NA	58
	03/19/03	190	190	79	3.2	< 0.1	8	< 0.05	NA	67
	12/05/02	150	150	94	2.3	< 0.1	7.3	< 0.05	NA	46
	09/04/02	140	140	96	1.4	0.28	8	< 0.05	NA	56
	06/04/02	150	150	96	3.3	0.25	7.5	< 0.05	NA	49
	03/11/02	160	160	86	4.1	0.18	6.9	< 0.05	NA	55
	11/30/01	160	160	98	4.5	0.11	6.8	< 0.05	NA	46
	08/31/01	150	150	95	4.4	0.19	7.1	< 0.05	NA	46
	05/18/01	150	150	91	4.7	0.12	7	< 0.05	NA	48
	02/19/97	153	153	77	NM	0.13	NA	NA	8.74	53.2
	12/13/96	161	161	88	NM	< 0.1	NA	NA	7.27	56.7
	09/05/96	172	172	88	NM	0.12	NA	NA	8.5	54.8
	03/22/96	162	162	81	NM	0.1	NA	NA	9.8	54
	12/04/95	170	170	89	NM	< 0.1	NA	NA	8.3	53
	09/26/95	174	174	87	NM	< 0.1	NA	NA	10	62
	06/09/95	172	172	87	NM	< 0.1	NA	NA	10	62
	03/21/95	160	160	77	NM	0.12	NA	NA	9.7	57
	12/13/94	161	161	84	NM	0.13	NA	NA	8.6	55
	09/09/94	175	175	143	NM	0.36	NA	NA	8.1	66
LF10GW02	03/17/05	230	230	77	0.1	< 0.1	< 0.05	< 0.05	NA	17
	03/10/04	240	240	76	0.07	0.1	< 0.05	< 0.05	NA	12
	08/19/03	390	390	40	0.4	0.12	0.45 J-	< 0.05 UJ	NA	94
	06/10/03	280	280	66	0.3	0.15	< 0.05	< 0.05	NA	44
	03/19/03	250	250	79	0.3	0.11	< 0.05	< 0.05	NA	12
	12/05/02	360	360	42	0.5	< 0.1	< 0.05	< 0.05	NA	71
	09/04/02	360	360	37	0.2	0.26	0.4	< 0.05	NA	100
	06/04/02	400	400	45	1.3	0.1	0.28	0.03 J	NA	130
	03/11/02	210	210	71	0.7	0.15	< 0.05	< 0.05	NA	16
	11/30/01	360	360	44	4	0.25	< 0.05 UJ	< 0.05 UJ	NA	160

Table A-15-1
Results of General Chemistry Analyses
Landfill 10
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
LF10GW02	08/31/01	320	320	40	2.4	0.17	0.04 J	< 0.05	NA	120
	02/19/97	494	494	61	0.22	0.14	NA	NA	< 0.05	74
	12/13/96	440	440	37	NM	0.12	NA	NA	0.063	64
	09/05/96	547	547	36	NM	0.13	NA	NA	< 0.05	127
	08/30/96	NA	NA	NA	NM	NA	NA	NA	NA	NA
	03/22/96	524	524	57	NM	0.14	NA	NA	< 0.05	72
	12/04/95	453	453	47	NM	0.14	NA	NA	< 0.05	99
	09/25/95	481	481	55	NM	0.12	NA	NA	0.058	167
	06/08/95	615	615	56	NM	0.12	NA	NA	< 0.05	169
	03/16/95	588	588	51	NM	0.13	NA	NA	< 0.05	39
	12/12/94	606	606	46	NM	0.18	NA	NA	< 0.05	48
	09/12/94	592	592	47	NM	0.16	NA	NA	< 0.05	45
LF10GW03	03/17/06	250	250	64	0.77	< 0.1	8.1	< 0.05	NA	83
	03/16/05	260	260	63	0.6	< 0.1	7.1	< 0.05	NA	75
	03/18/04	240	240	67	1.4	< 0.1	7.4	< 0.05	NA	80
	08/20/03	300	300	63	2.1	< 0.1	7	< 0.05	NA	75
	06/10/03	240	240	66	1.7	NA	8.2	< 0.05	NA	81
	03/19/03	270	270	62	3.5	< 0.1	7.8	< 0.05	NA	74
	12/06/02	250	250	65	2.2	0.1	8.2	< 0.05	NA	79
	09/04/02	240	240	68	0.4	0.2	7.9	< 0.05	NA	80
	06/05/02	240	240	66	1.3	0.21	7.8	< 0.05	NA	80
	03/12/02	230	230	68	4.8	< 0.1 U	8.6	< 0.05	NA	82
	11/30/01	240	240	67	2.8	0.17	8.5 J	< 0.05 UJ	NA	78
	08/31/01	240	240	68	NM	0.16	8	< 0.05	NA	79
	05/17/01	240	240	68	3.3	0.21	8.2	< 0.05	NA	78
	02/18/97	239	239	60	NM	0.15	NA	NA	10	76
	12/12/96	243	243	61	NM	< 0.1	NA	NA	7.91	74
	09/04/96	237	237	64	NM	0.13	NA	NA	9.4	73
	06/06/96	244	244	58	NM	0.1	NA	NA	8.3	75
	03/21/96	255	255	52	NM	< 0.1	NA	NA	8	73
	12/01/95	242	242	46	NM	< 0.1	NA	NA	4.6	66
	09/26/95	253	253	48	NM	0.12	NA	NA	7.6	77

Table A-15-1
Results of General Chemistry Analyses
Landfill 10
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
LF10GW03	06/09/95	259	259	37	NM	0.13	NA	NA	6.8	72
	03/16/95	252	252	37	NM	0.14	NA	NA	4.9	74
	12/13/94	290	290	37	NM	0.15	NA	NA	4.1	78
	09/09/94	387	387	219	NM	0.42	NA	NA	7.8	111
LF10GW100	03/17/06	450	450	44	0.89	< 0.1	36	< 0.05	NA	280
	05/26/05	400	400	31	0.9	0.16	29	< 0.05	NA	220
	03/17/05	360	360	19	0.4	0.1	29	< 0.05	NA	200
DUP0317051B	03/17/05	350	350	19	--	0.11	27	< 0.05	NA	200
LF10GW100CL	03/17/05	320	320	17.8	--	0.51	31	< 0.1 U	NA	206
	12/14/04	510	510	64	1.8	< 0.1	41	< 0.05	NA	290
	08/12/04	480	480	50	2.4	< 0.1	41	< 0.05	NA	280
	05/28/04	360	360	20	0.59	0.11	25	0.86	NA	210
DUP0528042A	05/28/04	380	380	20	--	0.11	25	0.86	NA	210
	03/18/04	340	340	19	1.3	0.11	27	< 0.05	NA	220
DUP0318043A	03/18/04	350	350	19	--	0.11	27	< 0.05	NA	220
	12/09/03	490	490	52	1.1	0.15	28	< 0.05	NA	260
	08/20/03	420	420	39	1.9	0.14	26	< 0.05	NA	250
	06/10/03	350	350	25	1.6	0.14	27	< 0.05	NA	220
	03/19/03	460	460	68	NM	0.12	42	< 0.05	NA	280
	12/23/02	510	510	110	NM	0.0075 J-	NA	0.000069	0.04	300
LF10122302-DUP1	12/23/02	510	510	110	--	0.0094 J-	NA	0.000057	0.03	310
LF10SP01	03/17/05	210	210	70	4.9	< 0.1	0.61	< 0.05	NA	24
	12/14/04	220	220	95	4.8	< 0.1	0.2	< 0.05	NA	28
	05/26/04	220	220	85	7.2	< 0.1	0.28	< 0.05	NA	22
	03/10/04	190	190	77	4.8	< 0.1	0.49	< 0.05	NA	24
	12/03/03	240	240	90	6.9	< 0.1	0.16	< 0.05	NA	18
DUP1203031B	12/03/03	230	230	90	--	< 0.1	0.15	0.1	NA	18
LF10SP01CL	12/03/03	240	240	89.8	--	< 0.1	0.24	< 0.05	0.24	19
	08/19/03	230	230	87	4.5	< 0.1	0.2 J-	< 0.05 UJ	NA	21

Table A-15-1
Results of General Chemistry Analyses
Landfill 10
Presidio of San Francisco, California

Well Name	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	Field	E300.0/ E340.2	E300.0/ E353.2	E300.0/ E353.2	E353.2	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
LF10SP01	06/10/03	220	220	88	6.9	< 0.1	0.28	< 0.05	NA	22
	12/05/02	230	230	94	NM	0.11	NA	< 0.05	0.15	23

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in
mg/L - milligrams per liter
NA - Not analyzed
NM - Not measured
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-15-2
Results of BTEX, MTBE, and TPH Analyses
Landfill 10
Presidio of San Francisco, California

Well Name	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021	SW8020/ SW8021	SW8020/ SW8021	SW8020/ SW8021	SW8020/ SW8021	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
LF10GW01	05/25/06	NA	NA	NA	NA	NA	< 50	< 50	< 300
	03/20/06	< 0.5	< 0.5	< 0.5	< 1	3.6 C	NA	NA	NA
	03/16/05	< 0.5	< 0.5	< 0.5	< 1	8	NA	NA	NA
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	NA	NA	NA
	08/19/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA
	06/10/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA
	03/19/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA
	12/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	09/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	03/11/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 63	< 380
	11/30/01	< 0.5	< 0.5	< 0.5	< 0.5	2.7	< 50	< 50	< 300
	08/31/01	< 0.5 R	< 0.5 R	< 0.5 R	< 0.5 R	< 2 R	< 50 R	< 50 [2]	< 300 [2]
	05/18/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	02/19/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50 (U15)	< 50	< 300
	12/13/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	< 300
	09/05/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	< 300
	03/22/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	< 300
	12/04/95	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	< 300
	09/26/95	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	< 300
	06/09/95	< 5	<5	< 5	< 5	NA	< 50	< 50	NA
	03/21/95	< 5	<5	< 5	< 5	NA	< 50	< 50	NA
	12/13/94	< 5	<5	< 5	< 5	NA	< 50	< 50	NA
	09/09/94	< 5	<5	< 5	< 5	NA	< 50	65 (J25)	NA
LF10GW02	03/17/05	< 0.5	< 0.5	< 0.5	< 1	2.8	NA	NA	NA
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA
	08/19/03	< 0.5	< 0.5	< 0.5	< 0.5	2.4	NA	NA	NA
	06/10/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA
	03/19/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA
	12/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	09/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	06/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300

Table A-15-2
Results of BTEX, MTBE, and TPH Analyses
Landfill 10
Presidio of San Francisco, California

Well Name	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021	SW8020/ SW8021	SW8020/ SW8021	SW8020/ SW8021	SW8020/ SW8021	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
LF10GW02	03/11/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	11/30/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	08/31/01	< 0.5 R	< 0.5 R	< 0.5 R	< 0.5 R	< 2 R	< 50 R	< 50 [2]	< 300 [2]
	02/19/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	NA
	12/13/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	NA
	09/05/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	NA
	03/22/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	NA
	12/04/95	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	NA
	09/25/95	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	NA
	06/08/95	< 5	< 5	< 5	< 5	NA	< 50	< 50	NA
	03/16/95	< 5	< 5	< 5	< 5	NA	< 50	79 (J25)	NA
	12/12/94	< 5	< 5	< 5	< 5	NA	< 50	< 50	NA
	09/12/94	4.5 (J28)	23	6.6	40	NA	1,500 (J25)	< 50	NA
LF10GW03	05/25/06	NA	NA	NA	NA	NA	< 50	< 50	< 300
	03/17/06	< 0.5	< 0.5	< 0.5	< 1	2.4	NA	NA	NA
	03/16/05	< 0.5	< 0.5	< 0.5	< 1	8.5	NA	NA	NA
	03/18/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA
	08/20/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA
	06/10/03	< 0.5	< 0.5	< 0.5	< 0.5	2.8	NA	NA	NA
	03/19/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA	NA	NA
	12/06/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	09/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	06/05/02	< 0.5	< 0.5	< 0.5	< 0.5	3.5	< 50	< 50	< 300
	03/12/02	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	11/30/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	08/31/01	< 0.5 R	< 0.5 R	< 0.5 R	< 0.5 R	< 2 R	< 50 R	< 50 [2]	< 300 [2]
	05/17/01	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	02/18/97	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50 (U15)	< 50	< 300
	12/12/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	< 300
	09/04/96	< 0.5	1.5	< 0.5	< 0.5	NA	< 50	< 50	< 300
	06/06/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	< 300
	03/21/96	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	< 300

Table A-15-2
Results of BTEX, MTBE, and TPH Analyses
Landfill 10
Presidio of San Francisco, California

Well Name	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021	SW8020/ SW8021	SW8020/ SW8021	SW8020/ SW8021	SW8020/ SW8021	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
LF10GW03	12/01/95	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	< 300
	09/26/95	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50	< 50	440 (J25)
	06/09/95	< 5	< 5	< 5	< 5	NA	< 50	< 50	NA
	03/16/95	< 5	< 5	< 5	< 5	NA	< 50	< 50	NA
	12/13/94	< 5	< 5	< 5	< 5	NA	< 50	< 50	NA
	09/09/94	0.74 (J28)	< 5	< 5	5.9	NA	98 (J25)	76 (J25)	NA
LF10GW100	03/17/06	< 0.5	< 0.5	< 0.5	< 1	2.1	< 50	< 50	< 300
	05/26/05	< 0.5	< 0.5	< 0.5	< 1	< 2	< 50	< 50	710 Y
	03/17/05	< 0.5	< 0.5	< 0.5	< 1	2.9	< 50	< 50	< 300
DUP0317051B	03/17/05	NA	NA	NA	NA	NA	NA	< 50	< 300
LF10GW100CL	03/17/05	< 1 U	< 1 U	< 1 U	< 2 U	< 5 U	< 50 U	54	< 300 U
	12/14/04	< 0.5	< 0.5	< 0.5	< 1	<2	< 50	< 50	< 300
	08/12/04	< 0.5	< 0.5	< 0.5	< 0.5	2.3 C	< 50	< 50	< 300
	05/28/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
DUP0528042A	05/28/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	03/18/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
DUP0318043A	03/18/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	12/09/03	< 0.5	< 0.5	< 0.5	< 0.5	5.1 C	< 50	< 50	< 300
	08/20/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	06/10/03	< 0.5	< 0.5	< 0.5	< 0.5	3.2	< 50	< 50	< 300
	03/19/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
	12/23/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	120 A-02	< 250
LF10122302-DUP1	12/23/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	< 50	< 250
LF10SP01	03/17/05	< 0.5	< 0.5	< 0.5	< 1	11	< 50	< 50	< 300
	12/14/04	< 0.5	< 0.5	< 0.5	< 1	<2	< 50	< 50	< 300
	05/26/04	< 0.5	< 0.5	< 0.5	< 0.5	11 C	< 50	< 50	< 300
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 2 C,U	< 50	< 50	< 300
	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
DUP1203031B	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300
LF10SP01CL	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 48	< 240
	08/19/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	< 50	< 300

Table A-15-2
Results of BTEX, MTBE, and TPH Analyses
Landfill 10
Presidio of San Francisco, California

Well Name	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8020/ SW8021	SW8020/ SW8021	SW8020/ SW8021	SW8020/ SW8021	SW8020/ SW8021	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
LF10SP01	06/10/03	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	140 YZ	< 300
	12/05/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	< 50	< 250

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - TPH analysis was not run using the silica gel cleanup method 3630A, although it was marked on the chain-of-custody.
µg/L - micrograms per liter
NA - Not analyzed
Y - Sample exhibits a fuel pattern that does not resemble the standard.
Z - Sample exhibits unknown single peak or peaks.
MTBE - Methyl tertiary butyl ether
BTEX - benzene, toluene, ethylbenzene, and xylenes
TPH - Total petroleum hydrocarbons
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-15-3
Results of Total and Dissolved Metals and TDS Analyses
Landfill 10
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7040/ SW7470A	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
LF10GW01	03/20/06	< 100	< 1	< 5	56	< 2	< 1	13,000	79	< 10	< 1	< 100	< 3	57,000	< 10	< 0.2	< 20	< 500	< 5	< 1	38,000	< 1	< 10	< 20	520
	03/16/05	< 100	< 1	< 5	48	< 2	< 1	13,000 J	63	< 10	< 1	< 100	< 3	50,000	< 10	< 0.2	< 20	< 500	< 5	< 1	35,000	< 1	< 10	< 20	470 J-
	03/10/04	< 100	1.1	< 5	43	< 2	< 1	11,000	42	< 10	< 1	< 100	< 3	46,000	< 10	< 0.2	< 20	< 500	< 5	< 1 UJ	37,000	< 1	< 10	< 20	340
	08/19/03	< 100	< 1	< 5	51	< 2	< 1	13,000	77	< 10	< 1	< 100	< 3	59,000	< 10	< 0.2	< 20	< 500	< 5	< 1 UJ	38,000	< 1	< 10	< 20 UJ	440
	06/10/03	< 100	3	< 5	50	< 2	< 1	14,000	63	< 10	1.5	< 100	< 3	62,000	< 10	< 0.2	< 20	< 500	< 5	< 1	39,000	< 1	< 10	< 20	460
	03/19/03	< 100 UJ	< 1	1	49	< 1	< 1	13,000 J	54 J	< 1	< 1	< 100	< 3	77,000 J	< 10 UJ	< 0.2	12	< 500	< 5	< 1 UJ	59,000 J	< 1	< 10	< 10	440
	12/05/02	< 100	< 1	< 1	55	< 1	< 1	13,000	81	< 1	< 1	< 100	< 3	52,000	< 10	< 0.2	5.8	< 500	< 5	< 1 UJ	33,000	< 1	< 10	< 10	410
	09/04/02	< 100	< 1	1	380	< 1	< 1	14,000	81 J	< 1	< 1	< 100	< 3	63,000	< 10	< 0.2	7.7	< 500	< 5	< 1 UJ	40,000	< 1	< 10	95	430
	06/04/02	< 100	< 1	1.1	370	< 1	< 1	14,000	84	< 1	< 1	< 100	< 3	65,000	< 10	< 0.2	6.3	< 500	< 5	< 1	41,000	< 1	< 10	100	420
	03/11/02	< 100	< 1	1.4	320	< 1	< 1	15,000	70	< 1	< 1	< 100	< 3	65,000	< 10	< 0.2	6.9	< 500	< 5	< 1 UJ	46,000	< 1	< 10	64	430
	11/30/01	140	1.8	1.2	440	< 1	< 1	14,000	91	< 1	1.6	530	< 3	55,000	< 10	< 0.2	4.7	< 500	< 5	< 1 UJ	35,000	< 1	< 10	110	440
	08/31/01	170	2.5	1.4	250 J+	< 1	< 1	15,000	91	< 1	1.3	250	< 3	67,000	< 10	< 0.2	5.1	550	< 5	< 1 UJ	46,000	< 1	< 10	150	460
	05/18/01	< 100	1.9 J	1.2 J	390 J	< 1 UJ	< 1 UJ	14,000 J	80 J	< 1 UJ	1.1 J	< 100 UJ	< 3 UJ	67,000 b	< 10 UJ	< 0.2	8.3 J	< 500 UJ	< 5 UJ	< 1 UJ	43,000	< 1 UJ	< 10 UJ	170 J	460
	02/19/97	< 100	< 5	< 5	45.9	< 4	< 2	14,100	83	< 10	< 10	< 100	< 3	60,800	< 10	< 0.2	< 20	< 5,000	< 5	< 2	42,100	< 2	< 10	< 20	496
	12/13/96	< 100	< 5	< 5	52.7	< 4	< 2	14,600	80.8	< 10	< 10	< 100	< 3	60,700	< 10	< 0.2	< 20	< 5,000	< 5	< 2	38,900	< 2	< 10	< 20	474
	09/05/96	< 100	< 5	< 5	52.6	< 2	< 0.5	15,500	89.1	< 10	< 1	< 100	1.7	64,900	< 10	< 0.2	6.5	< 5,000	< 5	< 0.5	41,800	< 2	< 10	< 20	483
	03/22/96	< 100	< 5	< 5	38.3	< 2	< 0.5	13,800	71.5	< 10	< 1	< 100	< 1	59,100	< 10	< 0.2	6	< 5,000	< 5	< 0.5	39,300	< 2	< 10	< 20	464
	12/04/95	< 100	< 5	< 5	50	< 2	< 0.5	16,300	93	< 10	< 1	< 100	< 1	66,100	< 10	< 0.2	< 5	< 5,000	< 5	< 0.5	38,500	< 2	< 10	26	515
	09/26/95	< 100	< 60	< 5	25	< 2	< 5	15,100	89	< 10	< 20	< 100	< 1	61,900	< 10	< 0.2	< 40	< 5,000	< 5	< 10	36,800	< 2	< 10	< 20	523
	06/09/95	< 100	< 60	< 5	19	< 2	< 5	16,200	92	< 10	< 20	< 100	< 3.2	68,800	< 10	< 0.2	< 40	< 5,000	< 5	< 10	42,300	< 5 (U27)	< 10	< 20	524
	03/21/95	< 100	< 60	< 5	11	< 2	< 5	16,700	77	< 10	< 20	< 100	< 3.2	63,300	< 10	< 0.2	< 40	< 5,000	< 5 (U27)	< 10	42,700	< 25 (U9)	< 10	< 20	473
	12/13/94	< 100	< 60	< 5	15	< 2	< 5	17,300	95	< 10	< 20	< 100	< 3.2	64,700	< 10	< 0.2	< 40	< 5,000	< 5 (U27, U9)	< 10	42,600	< 25 (U27, U9)	< 10	< 20	508
	09/09/94	< 100	NA	7.4	< 10	NA	NA	40,100	110	< 10	< 20	< 100	< 3.2	56,100	< 10	< 0.2	< 40	6,400	< 5	NA	68,700	< 25 (U27)	< 10	< 20	609
LF10GW02	03/17/05	< 100	< 1	< 5	65	< 2	< 1	72,000 J	< 10	< 10	1.6	2,700	< 3	27,000	760	< 0.2	< 20	4,500	< 5	< 1	24,000	< 1	< 10	< 20	430 J-
	03/10/04	< 100	< 1	< 5	63	< 2	< 1	70,000	< 10	< 10	< 1	3,100	< 3	29,000	780	< 0.2	< 20	4,600	< 5	< 1 UJ	27,000	< 1	< 10	< 20	360
	08/19/03	< 100	< 1	< 5	88	< 2	< 1	89,000	< 10	< 10	< 1	2,400	< 3	36,000	820	< 0.2	< 20	5,300	< 5	< 1 UJ	64,000	< 1	< 10	< 20 UJ	570
	06/10/03	< 100	< 1	< 5	55	< 2	< 1	64,000	< 10	< 10	< 1	1,600	< 3	24,000	710	< 0.2	< 20	4,600	< 5	< 1	54,000	< 1	< 10	< 20	430
	03/19/03	< 100 UJ	< 1	< 1	64	< 1	< 1	94,000 J	1.1 J	< 1	< 1	2,100	< 3	37,000 J	920 J	< 0.2	2.6	4,900	< 5	< 1 UJ	36,000 J	< 1	< 10	< 10	420
	12/05/02	< 100	< 1	< 1	95	< 1	< 1	99,000	2.1	< 1	< 1	3,400	< 3	37,000	950	< 0.2	2.8	5,700	< 5	< 1 UJ	28,000	< 1	< 10	10	510
	09/04/02	< 100	< 1	< 1	410	15	< 1	110,000	< 1 UJ	< 1	< 1	2,900	< 3	43,000	1,100	< 0.2	2.9	6,000	< 5	< 1 UJ	36,000	< 1	< 10	78	540
	06/04/02	< 100	< 1	< 1	350	< 1	< 1	110,000	4.4	< 1	< 1	3,200	< 3	40,000	1,200	0.22	3.5	11,000	< 5	< 1	78,000	< 1	< 10	73	630
	03/11/02	< 100	< 1	1.1	380	< 1	< 1	57,000	< 1	< 1	< 1	2,500	< 3	26,000	830	< 0.2	2.6	4,600	< 5	< 1 UJ	30,000	< 1	< 10	110	370
	11/30/01	< 100	1.1	1	500	< 1	< 1	120,000	1.4	< 1	2	6,900	< 3	46,000	1,600	< 0.2	8.5	5,500	< 5	< 1 UJ	40,000	< 1	< 10	170	670
	08/31/01	< 100	2.1	1.3	250 J+	< 1	< 1	88,000	< 1	< 1	1	3,900	< 3	38,000	1,000	< 0.2	3.1	5,100	< 5	< 1 UJ	76,000	< 1	< 10	210	460
	02/19/97	< 100	< 5	< 5	105	< 4	< 2	150,000	< 10	< 10	< 10	5,030	< 3	56,800	1,770	< 0.2	< 20	5,830	< 5	< 2	33,500	< 2	NA	NA	759
	12/13/96	< 100	< 5	< 5	79	< 4	< 2	118,000	< 10	< 10	< 10	3,890	< 3	44,300	1,330	< 0.2	< 20	5,120	< 5	< 2	27,300	< 2	< 10	< 20	620
	09/05/96	< 100	< 5	< 5	120	< 2	< 0.5	161,000	< 1	< 10	< 1	4,050	< 1	62,400	1,800	< 0.2	11.7	6,800	< 5	< 0.5	35,500	< 2	< 10	< 20	812
	03/22/96	< 100	< 5	< 5	95.5	< 2	< 0.5	142,000	< 1	< 10	< 1	4,650	< 1	55,700	1,830	< 0.2	8.3	6,240	< 5	< 0.5	30,200	< 2	< 10	< 20	754
	12/04/95	< 100	< 5	< 5	93	< 2	< 0.5	140,000	< 1	< 10	< 1	4,000	< 1	55,700	1,800	< 0.2	< 5	6,300	< 5	< 0.5	26,500	< 2	< 10	< 20	735
	09/25/95	< 100	< 60	< 5	99	< 2	< 5	151,000	< 10	< 10	< 20	2,900	< 1	59,500	2,200	< 0.2	< 40	5,800	< 5	< 10	28,500	< 2	< 10	< 20	840
	06/08/95	< 100	< 60	< 5	140	< 2	< 5	198,000	< 10	< 10	< 20	5,700	< 3.2	88,300	2,900	< 0.2	< 40	6,400	< 5	< 10	43,000	< 5	< 10	< 20	959
	03/16/95	< 100	< 60	< 5	93	< 2	< 5	122,000	< 10	< 10	< 20	4,400	< 3.2	78,600	2,200	< 0.2	< 40	< 5,000	< 5	< 10	47,400	< 5 (U27)	< 10	< 20	697
	12/12/94	< 100	< 60	< 5	110	< 2	< 5	117,000	< 10	< 10	< 20	5,000	< 3.2	90,700	2,500	< 0.2	< 40	5,000	< 5 (U27)	< 10	45,400	< 5 (U27)	< 10	< 20	765
	09/12/94	< 100	NA	< 5	98	NA	NA	103,000	< 10	< 10	< 20	4,400	< 3.2	95,100	2,600	< 0.2	< 40	5,000	< 5	NA	49,600	< 25	< 10	57	769

Table A-15-3
Results of Total and Dissolved Metals and TDS Analyses
Landfill 10
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7040/ SW7470A	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
LF10GW03	03/17/06	< 100	< 1	< 5	84	< 2	< 1	28,000	< 10	< 10	1.1	< 100	< 3	57,000 J	< 10	< 0.2	37	< 500 UJ	< 5	< 1	51,000	< 1	< 10	< 20	600
	03/16/05	< 100	< 1	< 5	81	< 2	< 1	29,000 J	< 10	< 10	1.3	< 100	< 3	55,000	< 10	< 0.2	37	< 500	< 5	< 1	46,000	< 1	< 10	< 20	570 J-
	03/18/04	< 100	< 1	< 5	87	< 2	< 1	33,000	< 10	< 10	1.1	< 100	< 3	67,000	< 10	< 0.2	39	< 500	< 5	< 1 UJ	59,000	< 1	< 10	< 20	550 J
	08/20/03	< 100	1.7	< 5	81	< 2	< 1	30,000	< 10	< 10	14	230	< 3	64,000	< 10	0.2	40	< 500	< 5	< 1 UJ	50,000	< 1	< 10	< 20 UJ	560
	06/10/03	< 100	< 1	< 5	83	< 2	< 1	30,000	< 10	< 10	< 1	< 100	< 3	64,000	11	0.41	38	< 500	< 5	< 1	49,000	< 1	< 10	< 20	560
	03/19/03	< 100 UJ	< 1	< 1	83	< 1	< 1	39,000 J	2.9 J	< 1	< 1	< 100	< 3	86,000 J	< 10 UJ	0.48	38	< 500	< 5	< 1 UJ	71,000 J	< 1	< 10	< 10	490
	12/06/02	< 100	< 1	< 1	74	< 1	< 1	29,000	4.3	< 1	< 1	< 100	< 3	63,000	< 10 UJ	0.35	27	< 500	< 5	< 1 UJ	52,000	< 1	< 10	< 10	NA
	09/04/02	< 100	< 1	< 1	420	< 1	< 1	30,000	2.3 J	< 1	< 1	< 100	< 3	66,000	11	0.72	42	< 500	< 5	< 1 UJ	53,000	< 1	< 10	110	510
	06/05/02	< 100	< 1	< 1	90	< 1	< 1	31,000	5.7	< 1	< 1	110	< 3	66,000	20	0.56	41	< 500	< 5	< 1	53,000	< 1	< 10	< 10	490
	03/12/02	< 100	< 1	< 1	380	< 1	< 1	30,000	5.8	< 1	< 1	< 100	< 3	68,000	< 10	0.54	35	< 500	< 5	< 1 UJ	55,000	< 1	< 10	67	480
	11/30/01	< 100	3.1	< 1	500	< 1	< 1	31,000	9.2	< 1	1.8	540	< 3	67,000	< 10	< 0.2	29	< 500	< 5	< 1 UJ	53,000	< 1	< 10	250	550
	08/31/01	< 100	3.8	< 1	280 J+	< 1	< 1	30,000	7.7	< 1	3.3	< 100	< 3	72,000	< 10	0.21	35	< 500	< 5	< 1 UJ	61,000	< 1	< 10	270	540
	05/17/01	< 100	3	< 1	670	< 1	< 1	< 500 R	4.4 J	< 1	1.6	290	< 3	64,000	13	0.33	36	730 J	< 5	< 1	55,000	< 1	< 10	220	540
	02/18/97	< 100	< 5	< 5	87.2	< 4	< 2	31,200	< 10	< 10	< 10	< 100	< 3	67,800	< 10	0.3	38.1	< 5,000	< 5	< 2	58,000	< 2	< 10	< 20	569
	12/12/96	< 100	< 5	< 5	70.4	< 4	< 2	28,900	< 10	< 10	< 10	< 100	< 3	60,600	< 10	< 0.2	29.7	< 5,000	< 5	< 2	49,300	< 2	< 10	< 20	529
	09/04/96	< 100	< 5	< 5	75.9	< 2	< 0.5	29,400	3.4	< 10	< 1	< 100	2.1	63,400	< 10	0.23	39	< 5,000	< 5	< 0.5	55,100	< 2	< 10	< 20	524
	06/06/96	< 100	< 5	< 5	71.6	< 2	< 0.5	28,800	3.6	< 10	< 1	< 100	< 1	61,200	< 10	< 0.2	31.3	< 5,000	< 5	< 0.5	52,000	< 2	< 10	< 20	577
	03/21/96	< 100	< 5	< 5	64.9	< 2	< 0.5	29,700	2.1	< 10	< 1	< 100	< 1	60,500	< 10	0.54	31.2	< 5,000	< 5	< 0.5	53,800	< 2	< 10	< 20	518
	12/01/95	< 100	< 5	< 5	55	< 2	< 0.5	27,200	5.9	< 10	1.8	100	< 1	59,800	< 10	0.3	38	< 5,000	< 5	< 0.5	47,600	< 2	< 10	< 20	512
	09/26/95	< 100	< 60	< 5	41	< 2	< 5	26,200	< 10	< 10	< 20	< 100	1.4	55,700	< 10	< 0.2	< 40	< 5,000	< 5	< 10	46,200	< 2	< 10	< 20	528
	06/09/95	< 100	< 60	< 5	44	< 2	< 5	28,200	< 10	< 10	< 20	< 100	< 3.2	61,900	14	1.5	< 40	< 5,000	< 5	< 10	53,900	< 5	< 10	< 20	508
	03/16/95	< 100	< 60	< 5	18	< 2	< 5	29,500	< 10	< 10	< 20	< 100	< 3.2	60,000	54	< 0.2	< 40	< 5,000	< 5 (U27)	< 10	56,100	< 25 (U27)	< 10	55	498
	12/13/94	< 100	< 60	< 5	17	< 2	< 5	35,600	< 10	< 10	< 20	< 100	< 3.2	59,700	39	< 0.2	< 40	< 5,000	< 5 (U27)	< 10	62,300	< 5 (U27)	< 10	< 20	525
	09/09/94	< 100	NA	9.9	15	NA	NA	68,700	14	< 10	< 20	< 100	< 3.2	84,500	< 10	< 0.2	< 40	11,200	< 5 (U27)	NA	136,000	< 5 (U27)	< 10	< 20	989
LF10GW100	03/17/06	< 100	< 1	< 5	130	< 2	< 1	49,000	< 10	< 10	< 1	< 100	< 3	87,000 J	16	< 0.2	< 20	< 500 UJ	< 5	< 1	180,000	< 1	< 10	< 20	1,140
	05/26/05	< 100	< 1	< 5	67	< 2	< 1	53,000	< 10	< 10	1.6	120	< 3	77,000 J	< 10	< 0.2 UJ	< 20	1,300	< 5	< 1	170,000 J	< 1	< 10	< 20	750
	03/17/05	< 100	< 1	< 5	47	< 2	< 1	40,000 J	< 10	< 10	1.7	120	< 3	55,000	< 10	< 0.2	< 20	1,300	< 5	< 1	140,000	< 1	< 10	< 20	820 J-
DUP0317051B	03/17/05	< 100	< 1	< 5	50	< 2	< 1	40,000 J	< 10	< 10	1.6	130	< 3	55,000	< 10	< 0.2	< 20	1,400	< 5	< 1	140,000	< 1	< 10	< 20	830 J-
LF10GW100CL	03/17/05	< 100 U	< 2 U	< 2 U	51.1	< 1 U	< 1 U	40,800	< 10 U	< 1 U	< 2 U	< 100 U	< 1 U	61,800	< 10 U	< 0.2 U	5.99	< 5,000 UN	< 2 U	< 1 U	157,000 J	< 1 U	< 10 U	< 20 U	817
	12/14/04	< 100	< 1	< 5	140	< 2	< 1	60,000 J	< 10	< 10	1.1	130	< 3	100,000	< 10	< 0.2	< 20	760	< 5	< 1	190,000	< 1	11	< 20	1,220
	08/12/04	< 100	< 1	< 5	150	< 2	< 1	54,000	< 10	< 10	2	< 100	< 3	94,000	33	< 0.2	< 20	810	< 5	< 1	170,000	< 1	11	< 20	1,300
	05/28/04	< 100	< 1	< 5	43	< 2	< 1	46,000	< 10	< 10	< 1	< 100	< 3	66,000	18	< .2	< 20	1,600	< 5	< 1	160,000	< 1	< 10	< 20	830
DUP0528042A	05/28/04	< 100	< 1	< 5	42	< 2	< 1	45,000	< 10	< 10	1.1	< 100	< 3	65,000	16	< .2	< 20	1,700	< 5	< 1	150,000	< 1	< 10	< 20	840
	03/18/04	< 100	< 1	< 5	40	< 2	< 1	47,000	< 10	< 10	1.6	100	< 3	68,000	< 10	< 0.2	< 20	1,600	< 5	< 1 UJ	160,000	< 1	< 10	< 20	830 J
DUP0318043A	03/18/04	< 100	< 1	< 5	40	< 2	< 1	45,000	< 10	< 10	2.1	< 100	< 3	67,000	< 10	< 0.2	< 20	1,700	< 5	< 1 UJ	160,000	< 1	< 10	< 20	890 J
	12/09/03	< 100	1.5	< 5	37	< 2	< 1	61,000	< 10	< 10	2.7	280	< 3	90,000	< 10	< 0.2	< 20	2,100	< 5	< 1 UJ	190,000	< 1	< 10	< 20	940
	08/20/03	< 100	< 1	< 5	26	< 2	< 1	55,000	< 10	< 10	< 1	450	< 3	84,000	< 10	< 0.2	< 20	2,000	< 5	< 1 UJ	180,000	< 1	< 10	< 20 UJ	1,090
	06/10/03	< 100	< 1	< 5	31	< 2	< 1	48,000	< 10	< 10	1.6	< 100	< 3	66,000	11	< 0.2	< 20	2,300	< 5	< 1	140,000	< 1	< 10	< 20	830
	03/19/03	< 100 UJ	< 1	2.2	47	< 1	< 1	83,000 J	4.9 J	< 1	1.5	< 100	< 3	140,000 J	16 J	< 0.2	4.9	1,900	< 5	< 1 UJ	260,000 J	< 1	< 10	< 10	1,170
(Total)	02/10/03	NA	< 60	8.7	47	< 1	< 10	NA	< 10	< 7	< 10	< 300	< 3	120,000	29	< 0.2	< 30	NA	< 5	< 7	NA	< 2	< 10	< 20	NA
DUP021003 (Total)	02/10/03	NA	< 60	10	44	< 1	< 10	NA	< 10	< 7	< 10	< 300	< 3	120,000	26	< 0.2	< 30	NA	< 5	< 7	NA	< 2	< 10	< 20	NA
(Total)	12/23/02	NA	< 60	13 J-	29	< 1	< 10	NA	< 10	< 7	< 10	480	< 3	120,000	96	< 0.2	38	NA	5.6	< 7	NA	< 2	< 10	< 20	1,300
LF10122302-DUP1 (Total)	12/23/02	NA	< 60	< 5 UJ	26	< 1	< 10	NA	12	< 7	< 10	< 300	< 3	130,000	60	< 0.2	< 30	NA	7.7	< 7	NA	< 2	11	< 20	1,300

Table A-15-3
Results of Total and Dissolved Metals and TDS Analyses
Landfill 10
Presidio of San Francisco, California

Well Name	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW7040/ SW7470A	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	SW6020	SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
LF10SP01 [2]	03/17/05	< 100	< 1	< 5	12	< 2	< 1	34,000 J	< 10	< 10	< 1	450	< 3	35,000	170	< 0.2	< 20	3,000	< 5	< 1	45,000	< 1	< 10	< 20	360 J-
(Total)	03/17/05	< 100	< 1	< 5	14	< 2	< 1	33,000	< 10	< 10	< 1	1,000	< 3	35,000	180	< 0.2	< 20	3,000	< 5	< 1	46,000	< 1	< 10	< 20	NA
	12/14/04	< 100	< 1	< 5	14	< 2	< 1	37,000 J	< 10	< 10	< 1	290	< 3	41,000	170	< 0.2	< 20	3,400	< 5	< 1	57,000	< 1	< 10	< 20	430
(Total)	12/14/04	100	< 1	6	23	< 2	< 1	39,000 J	< 10	< 10	1.3	3,400	6.8	44,000	260	< 0.2	< 20	3,400	< 5	< 1	59,000	< 1	< 10	< 20	NA
	05/26/04	< 100	< 1	< 5	12	< 2	< 1	36,000	< 10	< 10	< 1	210	< 3	40,000	200	< 0.2	< 20	3,500	< 5	< 1	53,000	< 1	< 10	< 20	460
(Total)	05/26/04	< 100	< 1	9.4	40	< 2	< 1	39,000	< 10	< 10	2.9	13,000	12	40,000	540	< 0.2	< 20	3,400	< 5	< 1	52,000	< 1	< 10	22	--
(Total)	03/10/04	120	< 1	< 5	74	< 2	< 1	39,000	< 10	< 10	1.3	9,700	32	38,000	470	< 0.2	< 20	3,100	< 5	< 1	50,000	1.8	10	74	360
(Total)	12/03/03	< 100	< 60	7.7	50	< 2	< 5	35,000	< 10	< 20	< 10	12,000	4.4	42,000	1,400	< 0.2	< 20	3,600	< 5	< 5	58,000	< 5	< 10	< 20	420
DUP1203031B (Total)	12/03/03	< 100	< 60	< 5	18	< 2	< 5	31,000	< 10	< 20	< 10	2,500	< 3	40,000	240	< 0.2	< 20	3,500	< 5	< 5	56,000	< 5	< 10	140	350
LF10SP01CL (Total)	12/03/03	< 1000	< 5	12	34	< 1	< 1	41,000	< 10	< 7	< 10	7,900	3.2	39,000	560	< 0.2	< 10	3,800	< 5	< 1	57,000	< 2	< 10	< 20	390
	08/19/03	< 100	< 1	< 5	16	< 2	< 1	37,000	< 10	< 10	< 1	1,200	< 3	42,000	200	< 0.2	< 20	3,100	< 5	< 1 UJ	58,000	< 1	< 10	< 20 UJ	360
	06/10/03	< 100	< 1	< 5	10	< 2	< 1	36,000	< 10	< 10	< 1	< 100	< 3	38,000	75	< 0.2	< 20	2,900	< 5	< 1	50,000	< 1	< 10	< 20	360
(Total)	12/05/02	NA	< 60	< 5	40	< 1	< 10	NA	< 10	< 7	< 10	< 300	< 3	40,000	200	< .2	< 30	NA	< 5	< 7	NA	< 2	< 10	< 20	400

Notes
All metal results represent dissolved metals, unless indicated as "total" in the left-hand column, for total metal results.
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in their respective quarterly report.

2 - Beginning with the Second Quarter 2003, the Trust requested that all surface water seep samples be analyzed for total metals instead of dissolved metals. During Second Quarter 2003, the project laboratory filtered the metals sample for LF10SP01 and, therefore, the results are dissolved metals. Beginning with the Second Quarter 2004, the Trust requested that all surface water seep samples be analyzed for dissolved and total metals. Samples analyzed for total metals are not filtered in the field.

Groundwater samples collected from monitoring wells LF10GW01 through LF10GW100 were field filtered and analyzed for dissolved metals, except for samples collected from LF10GW100 during December 2002 and February 2003, which were analyzed for total metals.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.
µg/L - micrograms per liter
mg/L - milligrams per liter
NA - Not analyzed

Table A-15-4
Groundwater Elevation Summary
Landfill 10
Presidio of San Francisco, California

Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF10GW01	05/22/06	5.69	115.59	109.90	MW
	03/06/06	5.45	115.59	110.14	MW
	11/28/05	10.75	115.59	104.84	MW
	08/29/05	8.15	115.59	107.44	MW
	05/23/05	6.60	115.59	108.99	MW
	03/14/05	5.90	115.59	109.69	MW
	12/13/04	10.41	115.59	105.18	MW
	08/09/04	10.70	115.59	104.89	MW
	05/24/04	8.20	115.59	107.39	MW
	03/08/04	7.05	115.59	108.54	MW
	12/01/03	12.15	115.59	103.44	MW
	08/11/03	10.94	115.59	104.65	MW
	06/02/03	8.55	115.59	107.04	MW
	03/10/03	7.43	115.59	108.16	MW
	12/02/02	11.98	115.59	103.61	MW
	08/26/02	10.69	115.59	104.90	MW
	05/28/02	7.59	115.59	108.00	MW
	03/04/02	7.23	115.59	108.36	MW
	11/26/01	12.80	115.59	102.79	MW
	08/27/01	11.94	115.59	103.65	MW
	05/08/01	10.59	115.59	105.00	MW
LF10GW02	05/22/06	NM	105.67	NM	MW
	03/06/06	2.89	105.67	102.78	MW
	11/28/05	4.98	105.67	100.69	MW
	08/29/05	4.25	105.67	101.42	MW
	05/23/05	3.45	105.67	102.22	MW
	03/14/05	3.60	105.67	102.07	MW
	12/13/04	5.20	105.67	100.47	MW
	08/09/04	4.80	105.67	100.87	MW
	05/24/04	4.47	105.67	101.20	MW
	03/08/04	4.57	105.67	101.10	MW
	12/01/03	5.43	105.67	100.24	MW
	08/11/03	5.00	105.67	100.67	MW
	06/02/03	4.71	105.67	100.96	MW
	03/10/03	4.59	105.67	101.08	MW
	12/02/02	5.07	105.67	100.60	MW
	08/26/02	4.38	105.67	101.29	MW
	05/28/02	3.91	105.67	101.76	MW
	03/04/02	4.10	105.67	101.57	MW
	11/26/01	5.25	105.67	100.42	MW
	08/27/01	4.70	105.67	100.97	MW
	05/08/01	Not Located	105.67	--	MW
LF10GW03	05/22/06	36.35	180.80	144.45	MW
	03/06/06	37.74	180.80	143.06	MW
	11/28/05	42.85	180.80	137.95	MW
	08/29/05	41.4	180.80	139.40	MW
	05/23/05	38.75	180.80	142.05	MW
	03/14/05	37.73	180.80	143.07	MW
	12/13/04	43.5	180.80	137.30	MW
	08/09/04	41.98	180.80	138.82	MW
	05/24/04	41.45	180.80	139.35	MW
	03/08/04	39.15	180.80	141.65	MW
	12/01/03	43.6	180.80	137.20	MW
	08/11/03	42.43	180.80	138.37	MW

Table A-15-4
Groundwater Elevation Summary
Landfill 10
Presidio of San Francisco, California

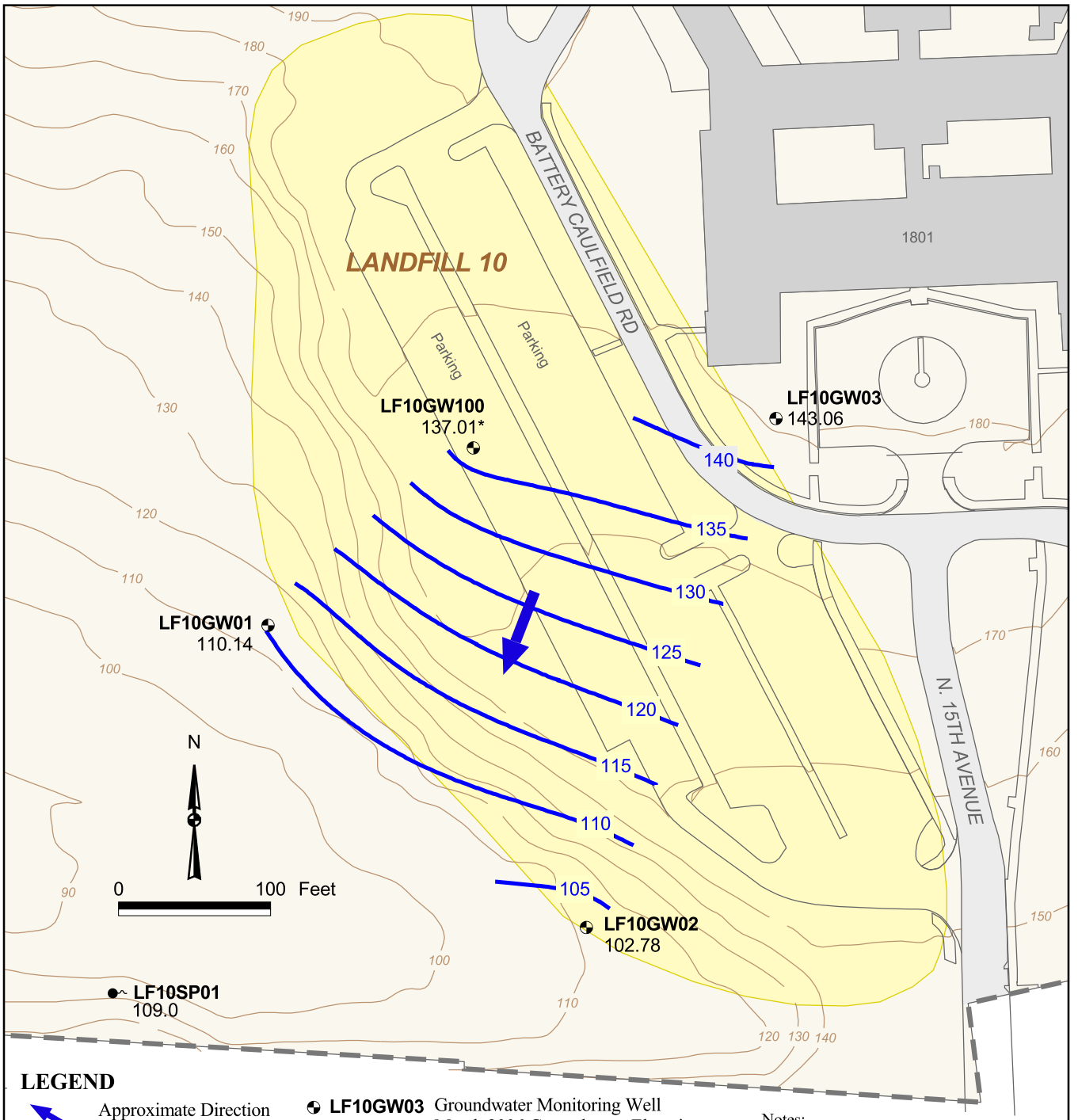
Well ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
LF10GW03	06/02/03	41.30	180.80	139.50	MW
	03/10/03	40.55	180.80	140.25	MW
	12/02/02	43.39	180.80	137.41	MW
	08/26/02	41.91	180.80	138.89	MW
	05/28/02	40.45	180.80	140.35	MW
	03/04/02	38.55	180.80	142.25	MW
	11/26/01	43.37	180.80	137.43	MW
	08/27/01	42.45	180.80	138.35	MW
	05/08/01	40.75	180.80	140.05	MW
LF10GW100	05/22/06	40.39	175.30 [2]	134.91	MW
	03/06/06	38.29	175.30 [2]	137.01	MW
	11/28/05	41.16	175.30 [2]	134.14	MW
	08/29/05	41.2	175.30 [2]	134.10	MW
	05/23/05	39.25	175.30 [2]	136.05	MW
	03/14/05	39.68	175.30 [2]	135.62	MW
	12/13/04	42.6	175.30 [2]	132.70	MW
	08/09/04	41.74	175.30 [2]	133.56	MW
	05/24/04	40.05	175.30 [2]	135.25	MW
	03/08/04	39.91	175.30 [2]	135.39	MW
	12/01/03	42.88	175.30 [2]	132.42	MW
	08/11/03	41.55	175.30 [2]	133.75	MW
	06/02/03	39.20	175.30 [2]	136.10	MW
	03/10/03	39.65	175.30 [2]	135.65	MW
LF10SP01	05/22/06	NM	--	NM	Seep
	03/06/06	Flowing	--	109.0 [3]	Seep
	11/28/05	Flowing	--	109.0 [3]	Seep
	08/29/05	Not flowing	--	109.0 [3]	Seep
	05/23/05	Not flowing	--	109.0 [3]	Seep
	03/14/05	Flowing	--	109.0 [3]	Seep
	12/13/04	Flowing	--	109.0 [3]	Seep
	08/09/04	Not flowing	--	109.0 [3]	Seep
	05/24/04	Flowing	--	109.0 [3]	Seep
	03/08/04	Flowing	--	109.0 [3]	Seep
	12/01/03	Flowing	--	109.0 [3]	Seep
	08/11/03	Not flowing	--	109.0 [3]	Seep

Notes

1 - All depth to water measurements are an average of three measurements recorded in the field.

2 - The lid of monitoring well LF10GW100 has been surveyed by the Trust (175.60 feet PLLW). The elevation difference between the monitoring well lid and the top of casing was measured in the field and has been verified to be 0.30 feet. Therefore, the LF10GW100 top of casing elevation is approximately 175.30 feet PLLW.

3 - Approximate elevation.
MW- Monitoring well
NM - Not measured, location was not accessible
feet PLLW - feet above Presidio Lower Low Water vertical datum



LEGEND

- Approximate Direction of Groundwater Flow
- Groundwater Contour (Contour Interval : 5 ft)
- Presidio Boundary
- Topographic Contour (Contour Interval : 10 ft)
- 1801 Building and Number
- LF10GW03 143.06 — Groundwater Monitoring Well March 2006 Groundwater Elevations
- LF10SP01 109.0 — Surface Water Seep at the headwater of Lobos Creek; location and elevation are approximate
- * — Groundwater elevation used for contouring is considered approximate (refer to Table A-15-4 for details)
- Approximate Extent of Landfill

Notes:
Groundwater elevation data collected on 6 March 2006.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

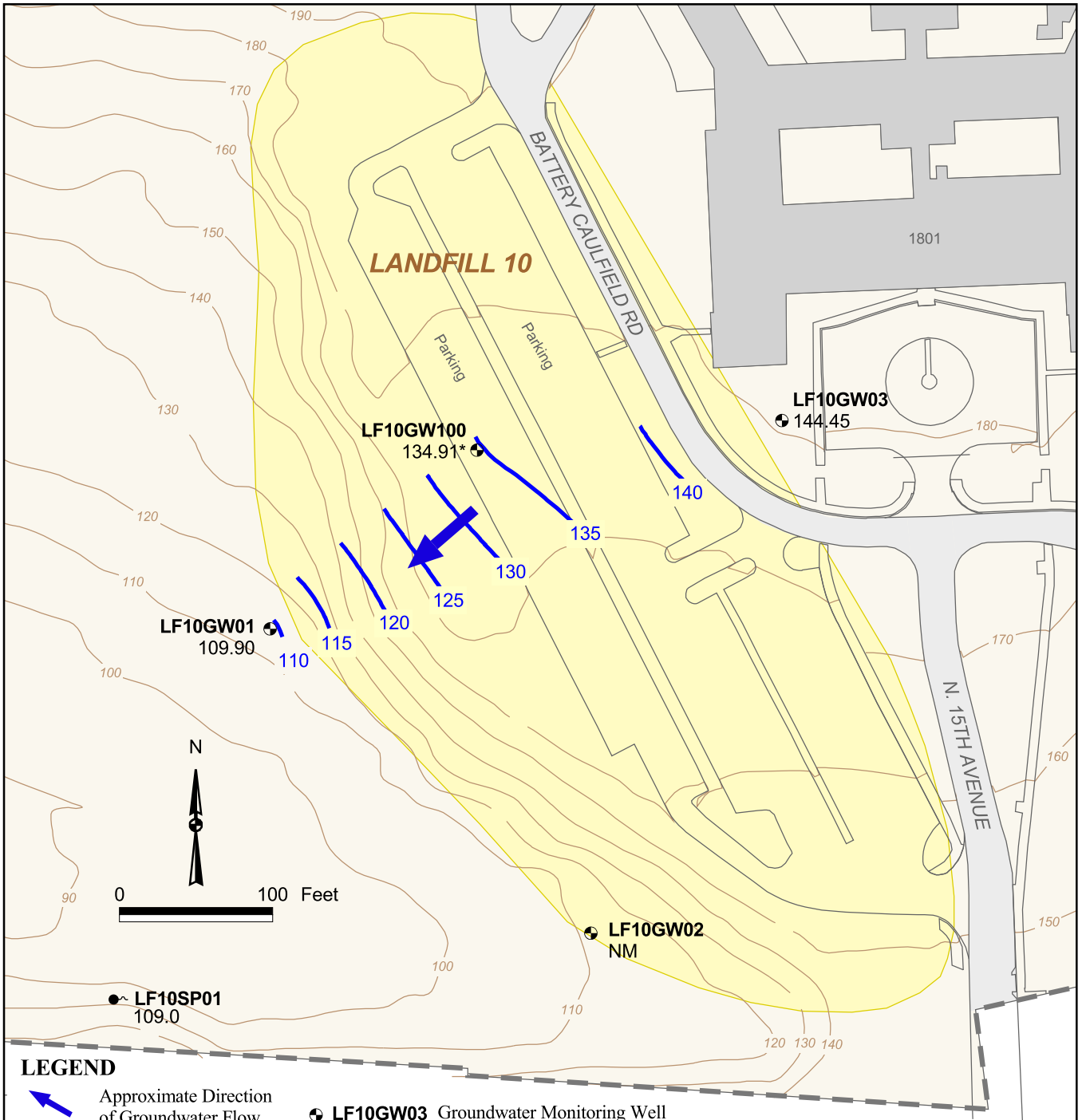
LANDFILL 10 SITE PLAN AND 6 MARCH 2006 GROUNDWATER ELEVATION MAP

Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 561-5315
October 2006

FIGURE A-15-1



LEGEND

- Approximate Direction of Groundwater Flow
- Groundwater Contour (Contour Interval : 5 ft)
- Presidio Boundary
- Topographic Contour (Contour Interval : 10 ft)
- 1801 — Building and Number
- Approximate Extent of Landfill

LF10GW03 144.45	Groundwater Monitoring Well May 2006 Groundwater Elevations
LF10SP01	Surface Water Seep at the headwater of Lobos Creek; location is approximate
*	Groundwater elevation used for contouring is considered approximate (refer to Table A-15-4 for details)
NM	Not Measured.

Notes:
Groundwater elevation data collected on 22 May 2006.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

LANDFILL 10 SITE PLAN AND 22 MAY 2006 GROUNDWATER ELEVATION MAP

Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 561-5315
October 2006

FIGURE A-15-2

First Quarter 2006

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 10 | Well No.: LF10GW01

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeLong | Sampled by: John DeLong | Date: 3/20/08

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 19.42

Depth to Water (WL, ft. below TOC): 5.23

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other: N/A

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: ~.3gpm

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI, HACH, Myron L

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
0841 / Initial	6.94	13.1	3.33	7.17	—	5	Cloudy
0844 / 0.9	7.07	13.7	—	7.14	—	7	
0847 / 1.8	7.09	14.0	—	7.13	—	6	
0850 / 2.7	7.12	14.1	Not: 3.4	7.12	—	7	
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/20/08 / 0900

Purging Equipment: Pump - Type: Bailer - Type: Disp Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF10GW01	3HCl VOCs	CET		
	1 NaOH			
	1 HNO3			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 10 | Well No.: LF10 GW02

Project Number: 7893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeJong | Sampled by: John DeJong | Date: 3/20/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC) :

Depth to Water (WL, ft. below TOC) :

Depth to free phase (FP, ft. below TOC) :

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate | gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/	Well is located in a Dangerous and inaccessable area. No Sample						
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments | Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled /

Purging Equipment: Pump - Type | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 10 | Well No.: LF10GW03

Project Number: 28973 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeSorry | Sampled by: John DeSorry | Date: 3/17/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 51.60

Depth to Water (WL, ft. below TOC): 36.79

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: DisP

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[X] Other: N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: 0.3 gpm

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI, HACH, Rupark

Time / Liters or Gallons	pH	Temp (C) °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1001 / Initial	6.27	17.7	pre 0.87	867	—	3	Clear
1004 / 0.9	6.08	17.8	—	859	—	7	
1007 / 1.8	6.06	17.9	—	862	—	6	
1010 / 2.7	6.02	17.7	post 0.77	872	—	7	
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments: Purge water storage/disposal: [ ] Drummed onsite [X] Other Belle of Fairlo

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/17/06 / 1020

Purging Equipment: Pump - Type: Bailer - Type: DisP Other:

Sample Filtered: Yes/ No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF10GW03	3 VOAs	CTL	2051	
	1 NA(OH)			
	1 HNO3			
	~~1 Amber~~			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 10 | Well No.: LF10GW100

Project Number: 7893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John DeJong | Sampled by: John DeJong | Date: 3/17/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 54.58

Depth to Water (WL, ft. below TOC): 36.81

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type Disp

[X] Normal [X] Pump \ Type 2"

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other

PURGE VOLUME CALCULATION

17.77 (Water Column Length) x (Water Volume/ft) x 3 (No. Vols) = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate 3gpm → 3gpm | gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS | Meter Type VSI, HACH, Myron L

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
	Started to purge well switched to Mod.							
	due to drawdown after 15 gal							
	15							
0924	16 gal	6.31	18.8	–	1736	–	7	
0932	17 gal	6.33	18.9	–	1724	–	6	
0935	18 gal	6.39	18.9	pot: 0.89	1699	–	6	

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other Baker Tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled 3/17/06 : 0940

Purging Equipment: ~~Pump - Type 2" MM~~ Bailer - Type Disp | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF10GW100	1 NaOH cc	CET	7061	
	1 HNO3			
	1 Lpdv			
	3 HCl VOAs			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Landfill 10 | Well No.: LF10SP01

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: John Dabny | Sampled by: John Dabny | Date: 3/20/08

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC) :

Depth to Water (WL, ft. below TOC) :

Depth to free phase (FP, ft. below TOC) :

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/							
/	Sample location is in a Dangerous						
/	and inaccessable area. No Sample						
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments | Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled /

Purging Equipment: Pump - Type | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

Second Quarter 2006

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Land fill 10 | Well No.: LF10 GW03

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: D. Raynal | Sampled by: D. Raynal | Date: 5/25/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 36.44

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type Disposable

[ ] Normal [ ] Pump \ Type

[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[ ] Near Bottom Depth (ft)

[ ] Other N/A

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate 1gal. /3min.

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
initial	—	6.3	21.0	—	868	—	4	
1507	1gal	6.2	19.3	—	873	—	9	
1510	2gal.	6.2	19.2	—	880	—	8	
1513	3gal.	6.3	19.0	—	882	—	8	

Comments

Purge water storage/disposal: [ ] Drummed onsite [X] Other Baker Tank / onsite

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/25/06 / ~~1520~~ 1520

Purging Equipment: Pump - Type | Bailer - Type Disposable | Other

Sample Filtered: Yes / No | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF10 GW03	3 HCL Vocs	CTT	2114	
	1 NP Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: LF10GW01 | Well No.: LF10GW01

Project Number: 2093 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: P. Cornish | Date: 5/25/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 19.55

Depth to Water (WL, ft. below TOC): 5.84

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.66
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: Disp.

[ ] Normal [ ] Pump \ Type:

[X] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[ ] Near top Depth (ft):

[ ] Near Bottom Depth (ft):

[ ] Other:

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time:

Recharge Rate: Purge Rate: .3 gpm

4 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type:

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1515	/	1	6.23	16.2	–	779.2	–	6.07	
1518	/	2	7.23	16.0	–	719.2	–	7.17	
1521	/	3	7.32	16.1	–	714.7	–	7.27	
1524	/	4	7.14	15.8	–	720.2	–	7.20	
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 5/25/06 1530

Purging Equipment: Pump - Type: Bailer - Type: Disp. Other:

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
LF10GW01	3x40ml Vial HCl	CET		
	1x1L Amber NP			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: LF10 | Well No.: LF10SP01

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other Steel

Recorded By: J. DeJong | Sampled by: | Date: 5/25/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC):

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate | gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1312 / well is cleared.	inaccessable			path needs to be			

Comments | Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled /

Purging Equipment: Pump - Type | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: LF10 | Well No.: LF10GW02

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: J. DeSong | Sampled by: J. | Date: 5/25/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [ ] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC):

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate | gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/							
/	well is inaccessible. path needs to						
1313 /	be cleared						
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments | Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled /

Purging Equipment: Pump - Type | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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COMMISSARY/POST EXCHANGE AREA
APPENDIX SECTION A-16
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2006
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

The Commissary/Post Exchange (PX) Area is located in the north-central portion of the Presidio (Figure 1), in the area surrounding the Commissary (Building 610) and the PX (Building 605). Site elevations range from approximately 9 to 15 feet above the PLLW datum and the ground surface slopes gently to the north-northwest, towards San Francisco Bay.

Prior to the construction of the Commissary and Crissy Field Tidal Marsh, the area was part of the Motor Pool used by the Army for vehicle fueling and maintenance and included aboveground gasoline storage tanks (ASTs), underground fuel and waste oil storage tanks (USTs), a pump shed and an auto shop. The area was also used for the loading and unloading of railroad tank cars and was crossed by now abandoned underground fuel distribution pipelines.

Three wells (610GW101 through 610GW103) were installed at the site in 2001 as part of an interim removal action. These wells have been sampled quarterly since August 2001. Samples from these wells were analyzed for TPH, BTEX and general water chemistry. Additional monitoring wells were installed as part of Site Investigation (SI) activities in 2002 and 2003. Metals and TDS analyses, sampling of the additional wells, and two surface water seep sampling locations (610SP01 and 610SP02) were added to the groundwater monitoring program beginning in the Third Quarter 2002.

To evaluate changing redox conditions, pH, temperature and oxygen-reduction potential (ORP) were added to the program in the First Quarter 2006. The *Technical Memorandum, Evaluation of Arsenic and Other Metals in Groundwater at Three Corrective Action Plan Sites, Presidio of San Francisco, San Francisco, California* (MACTEC, 2006), concluded that ORP is a good indicator for evaluating changing redox conditions. The First Quarter 2006 pH, temperature and ORP data are presented in Table A-16-1 and will be used in the ongoing redox evaluations at CAP sites.

Summaries of analytical results are presented in Tables A-16-1 through A-16-7 in this section.

2.0 SITE DESCRIPTION AND GEOLOGY

Based on historical groundwater level measurements, groundwater beneath the Commissary/PX Area does not appear to be tidally influenced and is typically present from approximately 3 to 6 feet bgs (Treadwell & Rollo, 2003b). Groundwater beneath the site generally flows northward towards the San Francisco Bay.

The Commissary and Crissy Field Tidal Marsh are located in an area of former tidal marshland. This marshland was filled in 1915 with hydraulically placed sand obtained from offshore sources (referred to as "the 1915 sand"). More recently, additional fill material was placed on top of the 1915 sand. The 1915 sand is laterally continuous over Crissy Field and locally ranges between 3 to 6 feet thick. The 1915 sand is underlain by native, highly plastic clay (Bay Mud) (Treadwell & Rollo, 2003b).

3.0 INTERIM SOIL REMOVAL ACTION

In mid-November 1999, the Trust became aware of groundwater seeps in the southwest corner of the new Crissy Field Tidal Marsh that contained detectable concentrations of TPHg. This area of the tidal marsh is north of the Commissary (Figure A-16-1). Throughout 2000, the Trust conducted a series of investigations to identify and delineate the source of TPHg in the groundwater seeps. These investigations have included:

- Sampling the groundwater seeps,
- Advancing 48 exploratory soil borings,
- Shallow groundwater sampling, and
- Excavating 11 test pits in the area of the Commissary's northwestern parking lot and adjacent parts of Mason Street.

These investigations documented concentrations of TPHg in the groundwater seeps up to 0.81 mg/L, concentrations of TPHg in shallow groundwater up to 3.4 mg/L, and concentrations of TPHg and TPHd in shallow soil up to 21,000 mg/kg (Treadwell & Rollo, 2002a).

In the *Commissary Seeps Interim Source Removal Action Plan* (Action Plan) (Trust, 2000), the Trust proposed an interim source removal action to reduce the TPH concentrations in the soil in the area between the Commissary and the Crissy Field Tidal Marsh. Historical data collected by the Army, Trust, and members of the public suggested that other areas of the Commissary/PX Area may be impacted with petroleum hydrocarbons.

At the suggestion of the Regional Water Quality Control Board (RWQCB), an investigation to evaluate contaminant attenuation characteristics was performed prior to the interim source removal excavation. This investigation was conducted to estimate the partitioning coefficient between the 1915 sand and the shallow groundwater, as well as the dilution attenuation factor (DAF) and the

retardation coefficient within the 1915 sand. The evaluation also provided additional information to assist with decisions regarding potential future remedial actions at the Commissary/PX Area and possibly other locations at Crissy Field. A complete discussion of the estimated partitioning coefficients, DAFs, and retardation coefficients can be found in the *Draft Commissary Seeps Interim Removal Action Report* (Treadwell & Rollo, 2002a).

The interim source removal action took place in two phases to minimize the disturbance of Mason Street. Phase 1 of the excavation took place between March and April 2001, and Phase 2 of the excavation took place between May and July 2001. The action consisted of removing and disposing of 3,750 tons of soil that contained petroleum hydrocarbons, backfilling the excavation with clean fill, evaluating the contaminant attenuation characteristics of the 1915 sand, and monitoring groundwater. Three monitoring wells (610GW101 through 610GW103) were installed in July 2001. The scope of work was performed in accordance with the Action Plan, as approved by the RWQCB and the Department of Toxic Substances Control (DTSC) (Trust, 2000).

The interim action was followed by a comprehensive SI of the entire Commissary/PX Area conducted by the Trust in 2002 and 2003 (Treadwell & Rollo, 2002c).

4.0 COMMISSARY/PX AREA SITE INVESTIGATION

The Commissary/PX Area SI was conducted in two phases. Phase 1 of the investigation was conducted in July and August 2002 and consisted of the following:

- Drilling 87 soil borings to depths ranging from 2 to 10 feet bgs,
- Collecting 193 soil samples for laboratory analyses (chemical and geotechnical),
- Collecting 47 groundwater grab samples from 41 soil borings,
- Installing nine groundwater monitoring wells (600GW101 through 600GW109) in the shallow (A1) groundwater zone,
- Collecting groundwater level measurements on four different days, and
- Sampling the new groundwater monitoring wells (600GW101 through 600GW109).

Based on the results of the Phase 1 SI, Phase 2 boring locations and a sampling and analysis plan were proposed. The Phase 2 site investigation was conducted in January 2003 and consisted of the following:

- Drilling 57 soil borings to depths ranging from 2 to 14 feet bgs,
- Collecting 204 soil samples for laboratory analyses, and
- Collecting 7 groundwater grab samples from 6 borings.

The results of the Phase 1 and Phase 2 site investigations are included in the Draft SI Report for the Commissary/PX Study Area (Treadwell & Rollo, 2003b).

5.0 COMMISSARY/PX CORRECTIVE ACTION PLAN

The *Revised Final Corrective Action Plan Commissary/PX Study Area, Presidio of San Francisco, California* (CAP) was prepared and approved during Third Quarter 2006 (Treadwell & Rollo, 2006). The CAP selected excavation and offsite disposal, capping and land use controls (LUCs), and groundwater monitoring for Accessible Locations. Due to the uncertainty concerning future land uses and the status of Building 610 as well as the extent and volume of soil contamination, for Less Accessible Location situated underneath Building 610, a combination of three alternatives was selected:

- No Marsh Expansion (Selected Alternative: Capping and LUCs);
- Marsh Expansion with Demolition of Building 610 (Excavation and Off-Site Disposal and Capping and LUCs);
- Marsh Expansion with Building 610 In-Place (In Situ Soil Remediation and LUCs).

These alternatives provide for the cleanup and long term management of TPH-, PAH-, and metal-contaminated soil beneath the building. In addition, the combination of the three alternatives offers flexibility with respect to the future expansion of the Crissy Field Marsh and the future status of Building 610. By implementing an LUC for the area covered by the building until a determination is made by the Trust and NPS regarding whether the Crissy Field Marsh will be expanded into the area, significant costs associated with remediation of soil underneath the building are minimized.

The CAP outlines a phased implementation approach that will allow uncertainties to be addressed as better information regarding future land use and the potential for Crissy Field Marsh Expansion becomes available. During Phase 1, soil will be removed from all portions of the Study Area within Area A and portions of Area B located within approximately 150 feet of the present Crissy Field Marsh shoreline (Figure A-16-1). The objective of Phase 1 is to remove soil in petroleum impacted areas the pose a potential threat to Crissy Field Marsh and land uses within Area A (Figure A-16-1). Phase 2 of CAP implementation will occur within the remainder of the Study Area and will commence following decisions regarding the potential expansion of Crissy Field Marsh. Cleanup will be conducted to protect the marsh and human land use, as appropriate.

Groundwater and surface water monitoring for arsenic and TPH in the vicinity of the Commissary Seeps Interim Removal Action are part of the recommended corrective action alternative. CAP cleanup levels are presented on Tables A-16-2 through A-16-7. The CAP groundwater and surface water monitoring program will be implemented as outlined in the *Phase*

I Corrective Action Plan Work Plan (Geomatrix, 2006) following completion of Phase 1 soil excavation and sampling activities which are currently underway.

6.0 GROUNDWATER MONITORING

The Commissary/PX Area has 12 associated groundwater monitoring wells and two surface water seep locations (Figure A-16-1). Groundwater elevations were collected at all 12 site wells during the First and Second Quarters 2006. The seeps were submerged during the First Quarter 2006 and were not flowing during the Second Quarter 2006.

Commissary/PX Area monitoring wells 600GW101 through 600GW109, 610GW101 through 610GW103 were sampled during the First Quarter 2006, in accordance with the proposed sampling schedule (Table 1A). Seeps 610SP01 and 610SP02 were submerged during the First Quarter 2006 groundwater elevation survey. However, the seeps were subsequently exposed and seep samples were collected by Blaine Tech, as they have been historically, by digging a small hole and allowing groundwater to seep into the depression. The water was then collected with a disposable bailer and placed in laboratory-supplied containers for analysis. Commissary/PX Area monitoring well and seep locations are shown on Figure A-16-1.

During the Second Quarter 2006, groundwater samples were collected from seven site wells (600GW101, 600GW105, 600GW106, 600GW108, and 610GW101 through 610GW103), in accordance with Table 1B. Groundwater seeps 610SP01 and 610SP02 were not flowing during the Second Quarter 2006, and no samples were collected from these locations.

Water level meters were calibrated on 6 March and 22 May 2006. The calibration logs can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C.

6.1 Groundwater-Level Measurements and Interpretation

During the First Quarter 2006, the Commissary/PX Area monitoring wells were gauged between 12:44 PM and 1:30 PM on 6 March 2006. Observed low tide on 6 March 2006 was at 11:08 AM with a magnitude of 0.8 feet above PLLW.

During the Second Quarter 2006, the Commissary/PX monitoring wells were gauged between 2:37 PM and 3:02 PM on 22 May 2006. Observed low tide on 22 May 2005 was at 8:06 PM with a magnitude of 0.79 feet above PLLW.

Although groundwater does not appear to be tidally influenced at the Commissary/PX Area, as a precaution an attempt was made during the First and Second Quarters 2006 to gauge the Commissary/PX monitoring well water levels within a period of approximately one hour so that any potential tidal effects on groundwater elevation were minimal. Predicted and observed tidal times and magnitudes during the First and Second Quarters 2006 are presented in Tables 2A and 2B and Figures 2A and 2B of the main text, respectively. Tidal predictions and observations are taken from

the National Oceanic and Atmospheric Administration's (NOAA) Center for Operational Oceanographic Products and Services (CO-Ops) website. The First and Second Quarters 2006 Commissary/PX Area groundwater elevations are presented in Table A-16-8.

During the First Quarter 2006, groundwater elevations at the Commissary/PX Area ranged from 6.96 to 14.16 feet above PLLW in monitoring wells 600GW102 and 600GW105, respectively (Figure A-16-2). Surface water seeps 610SP01 and 610SP02 were submerged. During the Second Quarter 2006, groundwater elevations at the Commissary/PX Area ranged from 6.39 to 14.47 feet above PLLW in monitoring wells 600GW102 and 600GW105, respectively (Figure A-16-3). Surface water seeps 610SP01 and 610SP02 were not flowing during the Second Quarter 2006.

Groundwater generally flowed north towards the Crissy Field Marsh and San Francisco Bay (Figures A-16-2 and A-16-3) during both the First and Second Quarters 2006. During the First Quarter 2006, groundwater gradients in the Commissary/PX Area were estimated to be approximately 0.011 feet per foot in the western half of the area and 0.003 feet per foot in the eastern half of the area. During the Second Quarter 2006, groundwater gradients in the Commissary/PX Area were estimated to be approximately 0.012 feet per foot in the western half of the area and 0.0004 feet per foot in the eastern half of the area.

6.2 Monitoring Well Purging and Sampling

During the First Quarter 2006, all 12 Commissary/PX Area monitoring wells (600GW101 through 600GW109 and 610GW101 through 610GW103) and the two surface water seeps, 610SP01 and 610SP02 were purged and sampled on 7 March through 21 March 2006. During the Second Quarter 2006, seven Commissary/PX Area monitoring wells (600GW101, 600GW105, 600GW106, 600GW108, and 610GW101 through 610GW103) were purged and sampled on 23 May 2006. The two surface water seeps were not sampled during the Second Quarter 2006 because they were not observed to be flowing.

All samples were collected using methods shown in Tables 1A and 1B and in accordance with procedures described in the FSP (Treadwell & Rollo, 2001a). Purge equipment, purging volumes, purge water parameters, and sampling equipment for each monitoring well are described in the purge records at the conclusion of this subsection. Purge water was stored, for future disposal, in one of two 2,800-gallon aboveground polyethylene storage tanks, which are located at the Central Magazine.

6.3 Groundwater Analytical Program

All groundwater samples collected were submitted to the project laboratory for the analyses shown in Tables 1A and 1B of the main text. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are shown in Table 5. Sample containers used for each well are described in the purge records at the conclusion of this section.

QA/QC samples were collected as part of this program. Section 6.2 of the main report discusses the QA/QC sampling and analysis performed during the First and Second Quarters 2006.

7.0 GROUNDWATER ANALYTICAL RESULTS

During the First and Second Quarters 2006, groundwater samples collected from the Commissary/PX Area were analyzed for general chemistry, dissolved oxygen, 14 dissolved metals, TDS, sulfide, TPHg, TPHd, and TPHfo. In addition to the above analyses the following analyses were also conducted:

- VOCs analysis during the First Quarter 2006 within 600GW102 through 600GW109.
- BTEX and MTBE analyses during the both the First and Second Quarters 2006 within 600GW101, and 610GW101 through 610GW103 and during the First Quarter 2006 only within both seeps (610SP01 and 610SP02).
- PAH analysis within 600GW102 through 600GW109 during the First Quarter 2006
- Seep samples were analyzed for total metals during the First Quarter 2006.

The TPHfo standard currently being used is a TPH as motor oil standard, as defined by the QAPP, with a carbon range of C_{24} to C_{36}.

Groundwater analytical results are presented in Tables A-16-1 through A-16-7. Additionally, in order to evaluate changing redox conditions, pH, temperature and oxygen-reduction potential (ORP) were added to the program in the First Quarter 2006 as outlined in the *Technical Memorandum, Evaluation of Arsenic and Other Metals in Groundwater at Three Corrective Action Plan Sites, Presidio of San Francisco, San Francisco, California* (MACTEC, 2006), which concluded that ORP is a good indicator for evaluating changing redox conditions. The First Quarter 2006 pH, temperature and ORP data are presented in Table A-16-1 and will be used in the ongoing redox evaluations at CAP sites.

7.1 Dissolved Oxygen

Dissolved oxygen results are presented in Table A-16-1. Dissolved oxygen meters are calibrated prior to sampling each day, as described in Section 5.4.1.1 of the main text.

During the First Quarter 2006, the concentrations of dissolved oxygen within the Commissary/PX Area monitoring wells ranged from 0.4 to 2.07 mg/L within monitoring wells 600GW105 and 600GW104, respectively. Dissolved oxygen was measured at new high concentrations of 1.19, 1.59 and 1.61 mg/L within monitoring wells 600GW101, 600GW102, and 600GW106, respectively, during the First Quarter 2006.

During the Second Quarter 2006, the concentrations of dissolved oxygen within the Commissary/PX Area monitoring wells ranged from 0.17 to 0.51 mg/L within monitoring wells 600GW106 and 600GW108, respectively. All dissolved oxygen concentrations measured during the Second Quarter 2006 were within the range of previously measured concentrations.

Dissolved oxygen was measured at surface water seeps 610SP01 and 610SP02 during the First Quarter 2006 at concentrations of 1.27 and 0.39 mg/L, respectively. The dissolved oxygen measured within seep 610SP02 during the First Quarter 2006, was a new low concentration for this location.

7.2 General Chemistry Results

General chemistry results are presented in Table A-16-1. General chemistry results at the Commissary/PX Area during the First and Second Quarters 2006 are generally within the range of concentrations previously detected at the site.

The following table summarizes new high and low general chemistry analytical results for the First and Second Quarters 2006 within the Commissary/PX Area when compared to historical data, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date sampling commenced, and the number of duplicate analyses performed. Only the new high or new low concentrations are shown.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
General Chemistry							
600GW101	Alkalinity, Total	17 / 17	650	830	610	--	mg/L
	Bicarbonate	17 / 17	650	830	610	--	mg/L
	Chloride	17 / 17	95	130	74	--	mg/L
	Sulfide	5 / 9	< 0.04	0.12	--	0.14	mg/L
600GW104	Chloride	13 / 13	24	59	22	--	mg/L
600GW105	Sulfate	16 / 16	60	79	56	--	mg/L
600GW106	Chloride	15 / 15	28	46	--	47	mg/L
	Sulfate	15 / 15	39	83	--	92	mg/L
	Sulfide	1 / 8	< 0.04	< 0.04	--	0.07	mg/L
600GW107	Chloride	6 / 6	40	54	39	--	mg/L
	Fluoride	4 / 6	< 0.5	0.17	< 0.1	--	mg/L
	Nitrate	4 / 6	< 0.05	0.24	--	0.29	mg/L
600GW108	Chloride	22 / 22	25	92	18	--	mg/L
	Sulfate	22 / 22	26	90	22	--	mg/L
	Sulfide	1 / 10	< 0.04	< 0.05 *	--	0.07	mg/L
610GW102	Chloride	25 / 25	43	90	38	--	mg/L
	Nitrate	1 / 24	< 0.05	< 0.25	--	0.57	mg/L

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
General Chemistry							
610GW103	Alkalinity, Total	34 / 34	310	530	--	740	mg/L
	Bicarbonate	34 / 34	310	530	--	740	mg/L
	Nitrate	3 / 34	< 0.05	0.08	< 0.02 *	--	mg/L
	Sulfide	3 / 11	< 0.04	0.06	--	0.08	mg/L
610SP02	Chloride	12 / 12	170	12,000	120	--	mg/L

Qualified data in the table above is indicated with an asterisk (*).

Significant new high and low general chemistry results are discussed below.

During the Second Quarter 2006, nitrate was detected for the first time within monitoring well 610GW102 at 0.57 mg/L.

Nitrate, nitrite and fluoride concentrations had generally been higher within monitoring well 600GW108 than at other Commissary/PX Area wells in 2005. Monitoring well 600GW108 is located downgradient of the sewer lift station (Building 205). Elevated levels of these analytes may have been related to a leaking sewer line repaired by the Presidio Trust Utilities division in late 2004. The concentrations of these analytes appear to be trending back to normal site concentrations, which may be a result of the fixed leak.

Sulfide was detected at new high concentrations of 0.07 mg/L within monitoring wells 600GW106 and 600GW108 during the Second Quarter 2006. This is considered significant as it is the first time sulfide has been detected at either of these locations.

The remaining new high and low general chemistry concentrations from the First and Second Quarters 2006 can be attributed to natural fluctuations and are not considered significant. An evaluation of the redox state of site groundwater and relative general chemistry results can be found in Section 8.0.

The RPD between the primary and duplicate sample concentrations (740 and 410 mg/L, respectively) collected from monitoring well 610GW103 failed the RPD 50% acceptance criteria for total alkalinity at 57%.

7.3 Dissolved Gases and TOC

TOC and dissolved gases (ethane, ethene, and methane) were removed from the program for evaluation of redox conditions, in accordance with recommendations from the *Technical Memorandum on Arsenic and Other Metals in Groundwater at Three CAP Sites* (MACTEC, 2006).

An evaluation of the redox state of site groundwater and relative dissolved gas and TOC results can be found in Section 8.0.

7.4 TPH Results

All Commissary/PX samples were analyzed for TPHg, TPHd, and TPHfo during the First and Second Quarters 2006. The results of the TPH analyses are included in Table A-16-2 and detected results are discussed below.

During the First Quarter 2006, TPHg was detected at a concentration of 140 µg/L within monitoring well 600GW101. During the Second Quarter 2006, TPHg was detected at concentrations of 390 and 50 µg/L in monitoring wells 600GW101 and 610GW102, respectively.

TPHg was detected at concentrations of 83 and 66 µg/L in surface water seep 610SP01 and 610SP02, respectively.

TPHg concentrations did not exceed the 770 µg/L cleanup level during either the First or Second Quarters 2006.

THPd and TPHfo were not detected in any of the samples collected during the First or Second Quarters 2006 at the Commissary/PX Area.

TPHg concentrations detected within Commissary/PX Area monitoring wells and seeps during the First and Second Quarters 2006 were generally within the range of historical concentrations detected at the site. No TPH has ever been detected within Commissary/PX Area monitoring wells 600GW102 through 600GW106, or in monitoring wells 600GW108 and 600GW109.

7.5 VOC Results

All Commissary/PX Area monitoring wells, during the First Quarter 2006, and four Commissary/PX Area monitoring wells (600GW101 and 610GW101 through 610GW103), during the Second Quarter 2006 were analyzed for VOCs, either as VOCs and MTBE by EPA Method 8260B, or as BTEX and MTBE by EPA Method 8021B, in accordance with Tables 1A and 1B. Additionally, the two seeps (610SP01 and 610SP02) were sampled for BTEX and MTBE during the First Quarter 2006. The VOC results and cleanup levels are presented in Table A-16-3.

VOCs were not detected in the majority of samples analyzed during the First and Second Quarters 2006. Potentially significant detections of VOCs in Commissary/PX monitoring well and surface water seep samples are described below.

- MTBE was not detected in any Commissary/PX Area monitoring wells sampled during the First Quarter 2006. During the Second Quarter 2006, MTBE was

detected at concentrations of 3.3 and 3.2 µg/L in monitoring wells 600GW101 and 610GW103, respectively. These wells have previously had sporadic low level MTBE detections. Detected MTBE concentrations have been well below the 13 µg/L cleanup level.

7.6 PAH Results

Monitoring wells 600GW102 through 600GW109 were sampled for PAHs during the First Quarter 2006 (Table 1A). No Commissary/PX monitoring wells were sampled for PAHs during the Second Quarter 2006 (Table 1B). The PAH results are presented in Table A-16-4.

Acenaphthene was detected within 600GW103 at a concentration of 7.4 µg/L during the First Quarter 2006 which is within the range of previous detections at this location. Acenaphthene does not have a CAP-specified cleanup level. Anthracene and fluoranthene were detected within 600GW103 at an estimated concentration of 0.02 µg/L during the First Quarter 2006. These detections were only slightly above the laboratory reporting limit of <0.02 µg/L for these compounds and well below their respective cleanup levels of 770 and 300 µg/L. Fluoranthene was also detected within 600GW107 at a concentration of 0.03 µg/L during the First Quarter 2006, which is significantly less than its cleanup level of 300 µg/L. No other PAH compounds were detected at or above the laboratory reporting limit within any monitoring well samples during the First Quarter 2006.

7.7 Total and Dissolved Metals Results

Total and dissolved metals results are presented in Table A-16-5. Total results are identified as such in the leftmost column.

Samples collected from Commissary/PX Area monitoring wells were analyzed for 14 dissolved metals (aluminum, arsenic, cadmium, calcium, chromium, copper, iron, lead, magnesium, manganese, nickel, potassium, sodium, and zinc) and TDS during the First Quarter 2006. The following metals were added to the Commissary/PX Area monitoring program during the First Quarter 2005; aluminum, calcium, magnesium, potassium, and sodium. Manganese was added to the Commissary/PX Area metals list for 610-series wells and seeps starting with the Fourth Quarter 2004 and was added to the 600-series monitoring wells during the First Quarter 2005. Samples from both seeps are scheduled for quarterly analysis of total and dissolved metals.

The tables below summarize new high and low dissolved and total metal analytical results for the First and Second Quarters 2006 within Commissary/PX Area monitoring well and surface water seep samples when compared to historical data, and provides the range and frequency of historical results. The total number of analyses may vary depending on the sampling frequency, the date sampling commenced, and the number of duplicate analyses performed. Only the new high or the new low is shown.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Metals, Dissolved							
600GW101	Magnesium	7 / 7	43,000	55,000	--	56,000	µg/L
	Manganese	7 / 7	970	1,300	900	1,400	µg/L
	Potassium	7 / 7	13,000	16,000 *	10,000	--	µg/L
	Sodium	7 / 7	120,000	190,000	110,000	--	µg/L
600GW102	Calcium	2 / 2	150,000	150,000	--	180,000	µg/L
	Copper	1 / 9	< 1	< 20	--	1.1	µg/L
	Iron	2 / 2	3,000	3,000	2,500 *	--	µg/L
	Magnesium	2 / 2	46,000	46,000	--	54,000	µg/L
	Manganese	2 / 2	270	270	--	370	µg/L
	Potassium	2 / 2	9,900	9,900	--	12,000 *	µg/L
	Sodium	2 / 2	140,000	140,000	--	180,000	µg/L
600GW103	Calcium	2 / 2	110,000	110,000	--	130,000	µg/L
	Iron	2 / 2	11,000	11,000	--	13,000 *	µg/L
	Magnesium	2 / 2	31,000	31,000	--	35,000	µg/L
	Manganese	2 / 2	3,200	3,200	--	4,000	µg/L
	Sodium	2 / 2	84,000	84,000	--	86,000	µg/L
	Total Dissolved Solids	9 / 9	580	780	--	790 *	mg/L
600GW104	Calcium	2 / 2	120,000	120,000	--	130,000	µg/L
	Copper	4 / 13	< 1	1.2	--	1.4	µg/L
	Iron	2 / 2	1,100	1,100	--	2,200 *	µg/L
	Magnesium	2 / 2	52,000	52,000	50,000	--	µg/L
	Manganese	2 / 2	330	330	--	420	µg/L
	Potassium	2 / 2	6,500	6,500	5,500 *	--	µg/L
	Sodium	2 / 2	48,000	48,000	44,000	--	µg/L
600GW105	Iron	8 / 8	290	3,300	--	3,500	µg/L
	Magnesium	6 / 6	43,000	52,000	42,000	--	µg/L
	Sodium	6 / 6	100,000	130,000	96,000	--	µg/L
600GW106	Calcium	6 / 6	15,000	19,000	--	23,000	µg/L
	Magnesium	6 / 6	22,000	29,000	--	34,000	µg/L
	Manganese	6 / 6	600	1,000	--	1,300	µg/L
600GW107	Calcium	2 / 2	120,000	120,000	110,000	--	µg/L
	Iron	2 / 2	9,500	9,500	--	12,000	µg/L
	Magnesium	2 / 2	56,000	56,000	53,000	--	µg/L
	Manganese	2 / 2	2,700	2,700	--	2,800	µg/L
	Potassium	2 / 2	6,700	6,700	5,900	--	µg/L
	Sodium	2 / 2	62,000	62,000	56,000	--	µg/L
	Total Dissolved Solids	6 / 6	570	670	560	--	mg/L
600GW108	Calcium	10 / 10	27,000	52,000	23,000	--	µg/L
	Copper	4 / 22	< 1	1.3	--	3.1	µg/L
	Magnesium	10 / 10	35,000	43,000	25,000	--	µg/L
	Manganese	10 / 10	12	20	--	45	µg/L
	Potassium	9 / 10	< 5,000 *	3,300	--	3,800	µg/L
	Sodium	10 / 10	30,000	38,000	--	70,000	µg/L
	Total Dissolved Solids	21 / 21	230	460	--	530	mg/L

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Metals, Dissolved							
600GW109	Calcium	2 / 2	28,000 *	28,000 *	--	37,000	µg/L
	Iron	2 / 2	2,800	2,800	--	2,900	µg/L
	Magnesium	2 / 2	49,000	49,000	--	51,000	µg/L
	Manganese	2 / 2	190 *	190 *	170	--	µg/L
	Potassium	2 / 2	2,700	2,700	--	2,800	µg/L
	Sodium	2 / 2	39,000	39,000	--	46,000	µg/L
	Total Dissolved Solids	8 / 8	350	490	--	620	mg/L
610GW101	Calcium	8 / 8	55,000	63,000	48,000	--	µg/L
	Manganese	11 / 11	240	380	--	390	µg/L
	Sodium	8 / 8	69,000	80,000	65,000	--	µg/L
610GW102	Arsenic	23 / 25	< 40	22.1	< 5	--	µg/L
	Calcium	8 / 8	59,000	86,000 *	57,000	--	µg/L
	Potassium	8 / 8	4,600	6,810	4,300	--	µg/L
	Zinc	2 / 20	< 20	29	--	30	µg/L
	Zinc	2 / 20	< 20 *	29	--	30	µg/L
610GW103	Copper	4 / 23	< 1	1.9	--	2.2	µg/L
	Magnesium	10 / 10	43,000	52,000	41,000	--	µg/L
	Nickel	4 / 23	< 10	7.7	--	8.3	µg/L
	Sodium	10 / 10	100,000	130,000	76,000	--	µg/L
	Total Dissolved Solids	23 / 23	520	3,080	490	--	mg/L
610SP01	Arsenic	12 / 13	5.72	23	< 5	--	µg/L
	Calcium	3 / 3	64,000	240,000	52,000	--	µg/L
	Magnesium	3 / 3	74,000	360,000	40,000	--	µg/L
	Potassium	3 / 3	37,000 *	110,000 *	11,000	--	µg/L
	Sodium	3 / 3	250,000	4,100,000	140,000	--	µg/L
610SP02	Calcium	3 / 3	83,000	110,000	67,000	--	µg/L
	Copper	3 / 10	< 1	1.3	--	1.4	µg/L
	Magnesium	3 / 3	55,000	100,000	47,000	--	µg/L
	Manganese	4 / 4	1,100	2,900	860	--	µg/L
	Potassium	4 / 4	11,000 *	83,000	9,400	--	µg/L
	Sodium	3 / 3	170,000	540,000	140,000	--	µg/L
	Total Dissolved Solids	12 / 12	810	23,700	680	--	mg/L

Qualified data in the table above is indicated with an asterisk (*).

Significant new high and low dissolved metal results are discussed below.

- During the Second Quarter 2006, dissolved arsenic was not detected for the first time above the laboratory reporting limit of 5 µg/L within 610GW102.
- Dissolved copper was detected at a new high concentration of 1.1 µg/L within the sample collected from 600GW102 during the First Quarter 2006. The detection within 600GW102 was the first time copper had been detected within this well.

During the First Quarter 2006, dissolved copper was detected at a new high concentration of 3.1 µg/L within the sample collected from 600GW108. The detection within 600GW108 exceeds the copper cleanup level of 2.9 µg/L.

- Magnesium, potassium, and sodium were all detected at new low concentrations of 40,000, 11,000, and 140,000 µg/L, respectively within the First Quarter 2006 seep 610SP01 sample. These concentrations were all significantly lower than the previous low detections of these analytes which were 74,000, 37,000, and 250,000 µg/L, respectively.

  Dissolved sodium was detected within the primary and duplicate samples at concentrations of 70,000 µg/L and 68,000 µg/L in well 600GW108. These concentrations were significantly higher than the previous high concentration of 38,000 µg/L. During the Second Quarter 2006, copper was not detected and sodium was present at previous levels (33,000 µg/L).

The First Quarter 2006 duplicate sample collected from monitoring well 600GW108 failed the RPD 50% acceptance criteria for dissolved copper. The RPD between the primary and duplicate samples was calculated to be 70%.

- Dissolved iron was detected at a new high concentration of 2,200 µg/L within the sample collected from 600GW104. This concentration is twice as high as the previous high concentration for this well (1,100 µg/L).
- Dissolved nickel was detected at a new high concentration of 8.3 µg/L within the QC duplicate sample collected from 610GW103 which exceeds the cleanup level of 7.1 µg/L. Dissolved nickel was not detected in the primary or duplicate sample at concentrations above the laboratory reporting limit of 20 µg/L.
- During the Second Quarter 2006, dissolved manganese was detected at a new high concentration of 45 µg/L within 600GW108 which is significantly higher than the previous high concentration for this well (20 µg/L). Manganese does not have a CAP-specified cleanup level.

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Metals, Total							
610SP01	Aluminum	3 / 3	7,800	16,000	170 *	--	µg/L
	Calcium	3 / 3	67,000	230,000	52,000	--	µg/L
	Chromium	8 / 9	11	1,000	< 10	--	µg/L
	Iron	5 / 5	17,000	59,000	1,800	--	µg/L
	Lead	8 / 9	9.7	300	< 3	--	µg/L
	Magnesium	3 / 3	77,000	360,000	40,000	--	µg/L
	Nickel	8 / 9	37	1,400	< 20	--	µg/L
	Potassium	3 / 3	36,000	98,000	11,000	--	µg/L

Location	Analyte	Detects / Samples	Historical Data		New High/Low First & Second Quarter 2006		Units
			Minimum	Maximum	Minimum	Maximum	
Metals, Total							
610SP01	Sodium	3 / 3	230,000	3,500,000	140,000	--	µg/L
	Zinc	8 / 9	58	920	< 20	--	µg/L
610SP02	Aluminum	3 / 3	3,000	6,500	1,900 *	--	µg/L
	Calcium	3 / 3	93,000	120,000	72,000	--	µg/L
	Chromium	6 / 7	12	74	< 10	--	µg/L
	Iron	5 / 5	7,500	50,000	6,700	--	µg/L
	Lead	6 / 7	8.8	25	< 3	--	µg/L
	Magnesium	3 / 3	58,000	110,000	49,000	--	µg/L
	Manganese	4 / 4	1,400	3,300	1,000	--	µg/L
	Nickel	6 / 7	21	77	< 20	--	µg/L
	Potassium	3 / 3	11,000	23,000	10,000	--	µg/L
	Sodium	3 / 3	160,000	590,000	140,000	--	µg/L

Qualified data in the table above is indicated with an asterisk (*).

Significant new high and low total metal results are discussed below. CAP-specified cleanup levels apply only to dissolved metals concentrations.

- Total aluminum, calcium, chromium, iron, lead, magnesium, nickel, potassium and sodium were all detected at new low concentrations within both seeps during the First Quarter 2006. Additionally, zinc was not detected at a new low laboratory reporting limit of <20 µg/L in surface water seep 610SP01, and manganese was detected at a new low concentration within surface water seep 610SP02.
- Total copper was detected at 22 µg/L within the surface water seep sample from 610SP02 during the First Quarter 2006.

Total metal results are generally significantly higher than their associated dissolved metals results because soil particles present in the samples likely contributed to the total metals concentrations. The total metals data collected to date at the Commissary/PX Area do not exhibit specific upward or downward concentration trends.

8.0 GROUNDWATER REDOX EVALUATION

Several parameters were measured in the field and in the laboratory to help determine the current redox state of groundwater at the Commissary/PX Area. The following parameters are currently included in the groundwater monitoring program at the Commissary/PX Area and will be monitored as indicators of changing redox potential within groundwater. The analytes and their use, in terms of determining the current redox state of site groundwater, are listed below.

- **Dissolved Oxygen** – Dissolved oxygen is a field measurement that is collected using a flow through cell or a down-hole probe. Low dissolved oxygen concentrations are typically associated with low redox potential and reducing environments. Dissolved oxygen in the presence of organic carbon is consumed by microorganisms during biodegradation processes and therefore low dissolved oxygen concentrations are indicative of microbial activity.
- **ORP** – ORP is a measurement that is collected in the field with the use of a flow through cell or a downhole meter. Groundwater is pumped directly from the aquifer into the flow through cell without being exposed to air or the downhole probe is lowered directly into the water column. The ORP is then measured by sensors within the flow through cell and recorded. ORP is a direct measurement of redox potential. However, ORP is not equivalent to redox potential. Depending on the type of sensor used and the temperature of the water, redox potential (eH) can be calculated. In general, the lower the ORP values the more reducing the water is, where as, the greater the ORP value the more oxidizing the water is.

  Many variables exist in the natural environment and accurate field measurements of in situ conditions are difficult to obtain. Field results will be used for comparison and discussion purposes.
- **Nitrate/Nitrite** – The process of denitrification reduces nitrate to nitrite, which is ultimately reduced to nitrogen gas in reducing environments. A decreasing nitrate concentration trend in groundwater can be indicative of low redox potential, microbial metabolism and a reducing environment. Increasing concentrations of nitrate are typically associated with a rising redox potential.
- **Sulfate/Sulfide** – Decreasing concentrations of sulfate indicate sulfate reduction is taking place due to a reducing environment. Decreasing concentrations of sulfate are usually associated with sulfide production (i.e. sulfide is a product of sulfate reduction) and the repeated presence of sulfide in groundwater further confirms that sulfate is being reduced.
- **TOC** – Decreasing trends in TOC over time indicate that microbial metabolism is taking place and TOC is being consumed.
- **Dissolved Arsenic, Iron and Manganese** – Increasing concentrations of arsenic, iron, and/or manganese can be typically associated with a decreasing redox potential. Decreasing concentrations of these metals in association with increasing sulfate concentrations can be associated with an increasing redox potential.

The above analytes and field measurements were collected within all Commissary/PX Area monitoring wells proposed for sampling during the First and Second Quarters 2006.

- Dissolved iron was detected in all monitoring wells and seeps during the First and/or Second Quarters 2006, except in upgradient monitoring well 600GW106. The only other

non-detect result for dissolved iron was within monitoring well 600GW108 during the Second Quarter 2006.

- Nitrate as nitrogen concentrations continue to be significantly higher within 600GW106 than in other site wells. The presence of nitrate indicates that there is not significant reduction and is another indication that the groundwater within this well is less reducing than in the other upgradient wells (600GW105, 600GW107, and 600GW109) and downgradient wells in the northern portion of the site. Additionally, nitrate was either not detected or detected at concentrations slightly above the laboratory's reporting limit within 600GW101, 600GW103, 610GW101, and 610GW103.
- ORP was measured prior to sampling within all groundwater monitoring wells at the Commissary/PX Area proposed for sampling during the First and Second Quarters 2006. The ORP values within 600GW101, 610GW101, and 610GW102 were the lowest measured at the site.
- pH was measured prior to sampling within all groundwater monitoring wells and seeps at the Commissary/PX Area during the First and Second Quarters 2006. The pH values within 600GW102, 600GW103, and 600GW109 were the lowest (ranging from 6.5 to 6.8) at the Commissary/PX Area during the First Quarter 2006.

In addition to the above evaluation, modified redox diagrams were developed for each Commissary/PX Area monitoring well and seep sampled for redox parameters. The redox diagrams were generated using the Sequence™ program and concentrations of dissolved oxygen, nitrate, manganese, iron, sulfate and methane and are plotted on Figure A-16-4. Each redox diagram consists of multiple axes, with each individual axis representing one of the above analytes. Each redox diagram is associated with one monitoring well location. The relative shape of each redox diagram represents an approximation of the redox state within the well studied. In general, the larger the polygon the more oxidizing the groundwater environment is at the well location, conversely, the smaller the polygon the more reducing the environment. The Commissary/PX Area redox diagrams (Figure A-16-4) illustrate the differing redox environments across the site.

9.0 CONCLUSIONS & RECOMMENDATIONS

Dissolved copper was detected at a new high concentration of 3.1 µg/L within the sample collected from 600GW108. Dissolved nickel was detected at a new high concentration of 8.3 µg/L within the sample collected from 610GW103. These detections were the only exceedances of the Commissary/PX Area cleanup levels for dissolved metals during the First and Second Quarters 2006.

Total aluminum, calcium, chromium, iron, lead, magnesium, nickel, potassium and sodium, were all detected at new low concentrations within both seeps during the First Quarter 2006. Additionally, zinc was detected at a new low concentration within surface water seep 610SP01,

and manganese was detected at a new low concentration within surface water seep 610SP02. The majority of total metals appear to be decreasing in concentration. Specific trends will be identified in future monitoring events as they become apparent.

No PAHs, VOCs, MTBE, or TPH compounds were detected above their applicable cleanup levels during either the First or Second Quarters 2006. No other significant findings or data trends were observed during either the First or Second Quarters 2006.

The Revised Final Commissary/PX Area CAP was approved by the RWQCB in June 2006 and Phase I of CAP implementation is currently underway. Once Phase I of the CAP is completed, groundwater monitoring will be conducted in accordance with the Revised Final CAP.

Table A-16-1
Results of General Chemistry Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	**Field**	**Field**	**Field**
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	mV	pH units	ºC
600GW101	05/23/06	660	660	90	0.24	0.37	< 0.05	< 0.05	1.1	0.14	-125.9	7.03	16.75
	03/08/06	610	610	74	1.19	0.35	< 0.05	< 0.05	11	0.13	-122.9	7.37	13.37
	12/01/05	660	660	99	0.3	0.42	< 0.05	< 0.05	0.63	< 0.04	NR	NR	NR
	09/01/05	680	680	97	0.4	0.38	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
	06/01/05	800	800	96	0.3	0.49	< 0.05	< 0.05	0.65	0.07	NR	NR	NR
DUP0601053A	06/01/05	740	740	95	--	0.51	< 0.05	< 0.05	0.63	< 0.04	NR	NR	NR
	03/21/05	720	720	110	0.10	0.33	< 0.05	< 0.05	6.3	0.12	NR	NR	NR
	12/22/04	NA	NA	NA	0.17	NA	NA	NA	NA	NA	NR	NR	NR
	12/16/04	830	830	130	0.2	0.39	< 0.05	< 0.05	0.51	0.07	NR	NR	NR
	08/10/04	690	690	120	0.1	0.37	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
	05/26/04	660	660	110	NM	0.42	< 0.05	< 0.05	0.91	NA	NR	NR	NR
	03/09/04	710	710	110	0.3	0.4	< 0.05	< 0.05	0.9	NA	NR	NR	NR
	12/02/03	660	660	98	0.7	0.44	< 0.05	< 0.05	< 0.5	NA	NR	NR	NR
	08/13/03	720	720	100	0.1	0.63	< 0.25 UJ	< 0.25 UJ	< 2.5	NA	NR	NR	NR
	06/09/03	680	680	97	0.4	0.57	< 0.05	< 0.05	< 0.5	NA	NR	NR	NR
	03/11/03	650	650	120	0.2	0.37	< 0.05	< 0.05	32	NA	NR	NR	NR
	12/04/02	670	670	100	0.8	0.46	< 0.05	< 0.05	0.83	NA	NR	NR	NR
	09/10/02	670	670	100	0.8	0.52	< 0.05	< 0.05	< 1	NA	NR	NR	NR
600GW102	03/15/06	450	450	330	1.59	0.16	0.48	< 0.05	22	< 0.04	-39	6.5	14.5
	04/06/05	550	550	150	1.2	0.18	0.46	< 0.05	35	< 0.04 UJ	NR	NR	NR
	03/09/04	630	630	230	0.7	0.16	0.55	< 0.05	24	NA	NR	NR	NR
	12/02/03	310	310	200	1	0.18	2	< 0.05	51	NA	NR	NR	NR
	08/13/03	570	570	870	1.1	< 1	< 0.5 UJ	< 0.5 UJ	59	NA	NR	NR	NR
	06/09/03	650	650	440	0.6	< 0.2	< 0.1	< 0.1	16	NA	NR	NR	NR
	03/11/03	480	480	170	0.5	0.2	0.11	< 0.05	26	NA	NR	NR	NR
	12/04/02	350	350	460	1	0.23	0.15	< 0.05	58	NA	NR	NR	NR
	09/10/02	400	400	220	0.7	0.37	1.1	< 0.05	38	NA	NR	NR	NR
600GW103	03/15/06	550	550	100	0.91	0.26	< 0.05	< 0.05	< 0.5	< 0.04	-100	6.6	11.1
	04/11/05	470	470	93	0.6	0.33	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
	03/09/04	520	520	110	0.6	0.28	< 0.05	< 0.05	< 0.5	NA	NR	NR	NR

Table A-16-1
Results of General Chemistry Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	**Field**	**Field**	**Field**
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	mV	pH units	ºC
600GW103	12/02/03	540	540	100	1.8	0.27	< 0.05	< 0.05	< 0.5	NA	NR	NR	NR
	08/13/03	550	550	97	0.3	< 0.5	< 0.25 UJ	< 0.25 UJ	< 2.5	NA	NR	NR	NR
DUP0813033A	08/13/03	540	540	98	--	0.5	< 0.25 UJ	< 0.25 UJ	< 2.5	NA	NR	NR	NR
	06/09/03	550	550	130	0.7	0.36	< 0.05	< 0.05	< 0.5	NA	NR	NR	NR
	03/11/03	530	530	120	0.2	0.22	< 0.05	< 0.05	< 0.5	NA	NR	NR	NR
	12/04/02	500	500	97	0.9	0.22	< 0.05	< 0.05	2.9	NA	NR	NR	NR
	09/10/02	550	550	110	0.7	0.35	< 0.05	< 0.05	1.5	NA	NR	NR	NR
600GW104	03/15/06	470	470	22	2.07	0.35	0.1	< 0.05	110	< 0.04	-59	6.9	12.9
	04/11/05	480	480	24	0.9	0.39	0.08	< 0.05	160	< 0.04	NR	NR	NR
	03/09/04	290	290	43	2.1	0.39	< 0.05	< 0.05	110	NA	NR	NR	NR
	12/02/03	330	330	42	1.8	0.29	0.13 J-	< 0.05 UJ	71	NA	NR	NR	NR
DUP1202033A	12/02/03	310	310	43	--	0.3	0.2	< 0.05	72	NA	NR	NR	NR
	08/18/03	410	410	38	0.4	0.35	0.35	< 0.05	99	NA	NR	NR	NR
	06/05/03	350	350	48	0.6	0.29	0.69	< 0.05	130	NA	NR	NR	NR
	03/11/03	390	390	59	0.3	0.2	0.64	< 0.05	280	NA	NR	NR	NR
DUP0311032A	03/11/03	440	440	59	--	0.22	0.63	< 0.05	300	NA	NR	NR	NR
600GW104CL	03/11/03	400	400	54	--	0.24 J-	0.55	< 0.05 UJ	280	NA	NR	NR	NR
	12/04/02	420	420	55	2.2	0.18	< 0.05	< 0.05	170	NA	NR	NR	NR
	09/10/02	450	450	59	1.0	0.24	0.17	< 0.05	180	NA	NR	NR	NR
DUP0910021A	09/10/02	450	450	58	--	0.22	0.17	< 0.05	180	NA	NR	NR	NR
600GW105	05/23/06	370	370	86	0.24	0.29	0.79	< 0.05	56	< 0.04	-26.8	6.96	14.53
	03/08/06	320	320	84	0.4	0.25	1.3	< 0.05	68	< 0.04	-23.3	7.35	13
	12/01/05	380	380	96	0.5	0.31	0.9	< 0.05	68	< 0.04	NR	NR	NR
	09/01/05	320	320	98	0.4	0.27	0.9	< 0.05	65	< 0.04	NR	NR	NR
	06/01/05	710	710	89	0.7	< 5	< 2.5	< 2.5	60	< 0.04	NR	NR	NR
	03/22/05	310	310	86	0.2	0.25	1.9	< 0.05	67	< 0.04	NR	NR	NR
	12/22/04	NA	NA	NA	0.14	NA	NA	NA	NA	NA	NR	NR	NR
	12/16/04	350	350	88	0.2	0.27	1.6	< 0.05	69	< 0.04	NR	NR	NR
	08/12/04	340	340	93	0.6	0.28	1	< 0.05	61	< 0.04	NR	NR	NR

Table A-16-1
Results of General Chemistry Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	**Field**	**Field**	**Field**
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	mV	pH units	ºC
600GW105	03/10/04	340	340	90	0.2	0.3	0.58	< 0.05	62	NA	NR	NR	NR
	12/02/03	320	320	86	0.7	0.28	1.4	< 0.05	63	NA	NR	NR	NR
	08/13/03	370	370	86	0.2	< 0.5	1.1 b,J-	< 0.25 UJ	64	NA	NR	NR	NR
	06/05/03	370	370	90	0.4	0.28	2.7	0.07	74	NA	NR	NR	NR
DUP0605033A	06/05/03	320	320	90	--	0.28	2.6	0.07	77	NA	NR	NR	NR
	03/12/03	290	290	83	0.3	0.25	2.5	< 0.05	76	NA	NR	NR	NR
	12/04/02	370	370	88	0.6	0.24	2.3	< 0.05	78	NA	NR	NR	NR
	09/11/02	260	260	99	1.0	< 0.1 U	3.8	< 0.05	79	NA	NR	NR	NR
600GW106	05/23/06	230	230	37	0.17	0.17	4.8	0.11	86	0.07	-71.9	6.94	14.24
	03/08/06	210	210	47	1.61	0.16	5.6	0.06	92	< 0.04	124.9	6.94	12.76
	12/01/05	170	170	46	0.4	0.19	6.6	0.08	83	< 0.04	NR	NR	NR
	09/01/05	210	210	28	0.3	0.18	3.8	0.16	48	< 0.04	NR	NR	NR
	06/01/05	650	650	28	0.44	0.24	3.3	0.17	42	< 0.04	NR	NR	NR
	03/29/05	250	250	33	0.2	0.2	3.1	< 0.05	40	< 0.04	NR	NR	NR
	12/22/04	NA	NA	NA	0.19	NA	NA	NA	NA	NA	NR	NR	NR
	12/17/04	240	240	35	0.2	0.2	3.5	0.08	46	< 0.04	NR	NR	NR
	08/10/04	210	210	30	0.1	0.19	2.8	0.19	39	< 0.04	NR	NR	NR
	03/10/04	190	190	34	0.6	0.2	2.8	0.09	40	NA	NR	NR	NR
	12/02/03	210	210	36	0.7	0.21	3.1	0.15	50	NA	NR	NR	NR
	08/13/03	240	240	33	0.2	< 0.5	2.7 b,J-	< 0.25 UJ	48	NA	NR	NR	NR
	06/05/03	220	220	37	0.4	0.22	2.5	0.07	46	NA	NR	NR	NR
	03/12/03	240	240	39	0.2	0.19	3.3	0.09	44	NA	NR	NR	NR
	12/04/02	200	200	42	1.0	0.19	3.9	0.1	56	NA	NR	NR	NR
	09/11/02	250	250	44	0.9	< 0.1 U	2.7	0.089	44	NA	NR	NR	NR
600GW107	03/20/06	590	590	39	1.05	< 0.1	0.29	< 0.05	29	< 0.04 R	101.9	6.93	14.5
	04/11/05	550	550	40	0.3	0.11	0.24	< 0.05	46	< 0.04	NR	NR	NR
	03/10/04	590	590	43	0.3	0.13	< 0.05	< 0.05	14	NA	NR	NR	NR
	12/03/03	NA	NA	NA	0.7	NA	NA	NA	NA	NA	NR	NR	NR
	08/13/03	600	600	45	0.1	< 0.5	< 0.25 UJ	0.76 b,J-	3.2	NA	NR	NR	NR
	06/06/03	540	540	53	0.6	0.17	0.1	0.5	4.8	NA	NR	NR	NR
	03/11/03	520	520	54	1.6	0.13	0.05	< 0.05	12	NA	NR	NR	NR
	12/04/02	NA	NA	NA	0.9	NA	NA	NA	NA	NA	NR	NR	NR

Table A-16-1
Results of General Chemistry Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	**Field**	**Field**	**Field**
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	mV	pH units	ºC
600GW108	05/23/06	190	190	18	0.51	0.65	0.43	< 0.05	22	0.07	-104.2	7.06	5.49
	03/07/06	310	310	82	0.68	0.55	0.97	< 0.05	28	< 0.04	-50.5	7.64	12.94
DUP0307061B	03/07/06	300	300	74	--	0.54	1.2	< 0.05	33	< 0.04	NR	NR	NR
	11/30/05	200 J+	200	92	0.5	0.62	0.32	< 0.05	33	< 0.04	NR	NR	NR
DUP1130051A	11/30/05	180 J+	180	92	--	0.63	0.33	< 0.05	33	< 0.04	NR	NR	NR
600GW108CL	11/30/05	191	191	91.7	--	< 1 U	0.38	< 0.1 U	32.7	< 0.05 U	NR	NR	NR
	09/01/05	180	180	48	0.4	0.66	4	0.24	51	< 0.04	NR	NR	NR
	06/01/05	200	200	49	0.37	0.67	6.7	0.24	55	< 0.04	NR	NR	NR
	03/21/05	310	310	47	0.3	0.61	8.3	0.15	90	< 0.04	NR	NR	NR
DUP0321052B	03/21/05	260	260	46	--	0.64	8.3	0.15	88	< 0.04	NR	NR	NR
	12/22/04	NA	NA	NA	0.12	NA	NA	NA	NA	NA	NR	NR	NR
	12/17/04	170	170	51	0.2	0.8	7.8	0.08	52	NA	NR	NR	NR
	08/10/04	190	190	25	0.2	1.1	3.4	0.12	26	NA	NR	NR	NR
	05/26/04	110	110	35	0.78	1.1	4.8	< 0.05	38	NA	NR	NR	NR
	03/10/04	150	150	48	0.8	0.75	7.3	< 0.05	55	NA	NR	NR	NR
	12/03/03	150	150	46	0.7	0.82	7.4	< 0.05	52	NA	NR	NR	NR
	08/13/03	160	160	29	0.3	1.4	3.8 b,J-	< 0.25 UJ	35	NA	NR	NR	NR
	06/05/03	230	230	45	0.6	1	6.9	< 0.05	50	NA	NR	NR	NR
	03/12/03	260	260	46	1.0	0.75	7.5	< 0.05	52	NA	NR	NR	NR
	12/09/02	160	160	48	1.0	0.89	7.6	< 0.05	56	NA	NR	NR	NR
DUP1209022C	12/09/02	160	160	47	--	0.94	7.6	< 0.05	52	NA	NR	NR	NR
600GW108CL	12/09/02	160	160	46	--	1	7.2 J-	0.18 J-	55	NA	NR	NR	NR
	09/10/02	140	140	42	1.0	1.1	5.7	< 0.05	46	NA	NR	NR	NR
600GW109	03/14/06	380	380	44	0.43	< 0.1	0.52	< 0.05	41	< 0.04	-61	6.8	13.2
	04/01/05	290	290	39	0.7	< 0.1	0.74	< 0.05	47	< 0.04	NR	NR	NR
	03/09/04	300	300	42	0.4	< 0.1	0.26	< 0.05	51	NA	NR	NR	NR
	12/03/03	310	310	38	0.8	< 0.1	< 0.05	< 0.05	16	NA	NR	NR	NR
	08/13/03	440	440	55	0.2	< 0.5	< 0.25 UJ	< 0.25 UJ	20	NA	NR	NR	NR
	06/05/03	310	310	46	0.7	< 0.1	0.39	< 0.05	30	NA	NR	NR	NR
	03/11/03	430	430	51	0.4	< 0.1	1	< 0.05	44	NA	NR	NR	NR
	12/04/02	280	280	44	1.6	< 0.1	0.33	< 0.05	51	NA	NR	NR	NR
	09/10/02	290	290	45	1.0	0.12	0.54	< 0.05	50	NA	NR	NR	NR

Table A-16-1
Results of General Chemistry Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	**Field**	**Field**	**Field**
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	mV	pH units	ºC
610GW101	05/23/06	460	460	43	0.4	0.2	< 0.05	< 0.05	0.63	< 0.04	-133	7.21	18.8
	03/07/06	400	400	32	0.9	0.19	< 0.05	< 0.05	7.5	< 0.04	-218.6	9.62	12.1
	12/01/05	500	500	46	0.79	0.18	< 0.05	< 0.05	4	< 0.04	NR	NR	NR
	08/31/05	490	490	43	0.2	0.18	< 0.05	< 0.05	2.6	< 0.04	NR	NR	NR
DUP0831051A	08/31/05	480	480	42	--	0.18	< 0.05	< 0.05	2.4	< 0.04	NR	NR	NR
	06/02/05	440	440	44	0.28	0.29	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
	03/21/05	480	480	42	0.2	0.12	0.06	< 0.05	11	< 0.04	NR	NR	NR
DUP0321052A	03/21/05	420	420	43	--	0.12	< 0.05	< 0.05	10	< 0.04	NR	NR	NR
	12/21/04	NA	NA	NA	1.29	NA	NA	NA	NA	NA	NR	NR	NR
	12/15/04	390	390	37	0.2	0.17	< 0.05	< 0.05	10	< 0.04	NR	NR	NR
DUP1215041A	12/15/04	390	390	39	--	0.17	< 0.05	< 0.05	10	< 0.04	NR	NR	NR
610GW101CL	12/15/04	352	352	35.4	--	< 0.3 U	0.027 [2]		9.88	NA	NR	NR	NR
	08/10/04	490	490	47	0.1	0.19	< 0.05	< 0.05	4.9	< 0.04	NR	NR	NR
	05/26/04	450	450	52	0.62	0.22	< 0.05	< 0.05	1.2	NA	NR	NR	NR
	03/10/04	450	450	45	0.2	0.17	< 0.05	< 0.05	4.6	NA	NR	NR	NR
DUP0310043A	03/10/04	440	440	43	--	0.16	< 0.05	< 0.05	5.1	NA	NR	NR	NR
610GW101CL	03/10/04	430	430	45	--	0.18	< 0.1 UJ	< 0.05 UJ	5.3	NA	NR	NR	NR
	12/02/03	390	390	28	1.0	0.19	< 0.05	< 0.05	7.7	NA	NR	NR	NR
	08/14/03	560	560	46	0.3	0.25	< 0.05 UJ	< 0.05 UJ	3.1	NA	NR	NR	NR
DUP0814033A	08/14/03	510	510	48	--	0.28	< 0.05 UJ	< 0.05 UJ	2.5	NA	NR	NR	NR
610GW101CL	08/14/03	470	470	55	--	0.27 J+	< 0.1 UJ	< 0.05	2.1	NA	NR	NR	NR
	06/04/03	460	460	51	0.6	0.26	< 0.05	< 0.05	1.8	NA	NR	NR	NR
DUP0604033B	06/04/03	450	450	51	--	0.29	< 0.05	< 0.05	1.9	NA	NR	NR	NR
610GW101CL	06/04/03	450	450	58	--	0.27	< 0.1 R	< 0.05	1.6	NA	NR	NR	NR
	03/11/03	450	450	48	0.9	0.2	< 0.05	< 0.05	6.7	NA	NR	NR	NR
	12/03/02	490	490	57	1	0.2	< 0.05	< 0.05	< 0.5	NA	NR	NR	NR
	08/29/02	490	490	56	1.1	0.3	< 0.25	< 0.25	0.72	NA	NR	NR	NR
	05/29/02	460	460	52	0.8	0.3	< 0.05	< 0.05	9.3	NA	NR	NR	NR
	03/05/02	450	450	53	0.6	0.35	< 0.05	< 0.05	6.3	NA	NR	NR	NR
	12/03/01	450	450	48	0.6	0.29	< 0.5 UJ	< 0.5 UJ	50	NA	NR	NR	NR
	08/29/01	460	460	52	0.6	0.38	< 0.05	< 0.05	6.7	NA	NR	NR	NR

Table A-16-1
Results of General Chemistry Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	**Field**	**Field**	**Field**
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	mV	pH units	ºC
610GW102	05/23/06	350	350	45	0.36	0.22	0.57	< 0.05	46	< 0.04	-101.7	7.21	17.6
	03/07/06	420	420	38	0.49	0.25	< 0.05	< 0.05	68	0.14	-114.9	7.98	13.91
	12/01/05	440	440	90	0.65	0.22	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
	08/31/05	390	390	55	0.2	0.23	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
	06/02/05	400	400	47	0.16	0.24	< 0.05	< 0.05	20	0.09	NR	NR	NR
	03/31/05	330	330	50	0.1	0.25	< 0.05	< 0.05	160	0.06	NR	NR	NR
DUP0331052C	03/31/05	320	320	49	--	0.26	< 0.05	< 0.05	160	0.08	NR	NR	NR
610GW102CL	03/31/05	354	354	46.4	--	0.35	< 0.1 U	< 0.02 U	134	< 0.04 U	NR	NR	NR
	12/21/04	NA	NA	NA	0.32	NA	NA	NA	NA	NA	NR	NR	NR
	12/15/04	450	450	63	0.2	0.2	< 0.05	< 0.05	39	0.14	NR	NR	NR
	08/11/04	360	360	51	0.1	0.23	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
DUP0811041A	08/11/04	370	370	51	--	0.22	< 0.05	< 0.05	< 0.5	< 0.04	NR	NR	NR
610GW102CL	08/11/04	374	374	48	--	0.23	< 0.5 R [3]	< 0.5 R [3]	< 0.5 J	< 0.1	NR	NR	NR
	05/26/04	630	630	45	0.6	0.24	< 0.05	< 0.05	2.4	NA	NR	NR	NR
	03/09/04	420	420	57	0.2	0.23	< 0.05	< 0.05	51	NA	NR	NR	NR
	12/02/03	450	450	62	0.9	0.2	< 0.05	< 0.05	2	NA	NR	NR	NR
	08/18/03	400	400	66	0.2	0.27	< 0.05	< 0.05	2.2	NA	NR	NR	NR
	06/05/03	390	390	74	0.6	0.24	< 0.05	< 0.05	13	NA	NR	NR	NR
	03/11/03	350 J-	350 J-	61	1.8	0.21	< 0.05	< 0.05	66	NA	NR	NR	NR
DUP0311033A	03/11/03	370	370	64	--	0.18	< 0.05	< 0.05	67	NA	NR	NR	NR
	12/03/02	420	420	55	0.6	0.19	< 0.05	< 0.05	7.4	NA	NR	NR	NR
	08/29/02	360	360	49	0.9	0.23	< 0.25	< 0.25	19	NA	NR	NR	NR
	05/29/02	360	360	43	0.7	0.3	< 0.05	< 0.05	34	NA	NR	NR	NR
	03/05/02	420	420	54	0.5	0.31	< 0.05	< 0.05	37	NA	NR	NR	NR
	12/03/01	460	460	74	0.7	0.35	< 0.05 UJ	< 0.05 UJ	70	NA	NR	NR	NR
	08/29/01	420	420	57	0.4	0.34	< 0.05	< 0.05	39	NA	NR	NR	NR
610GW103	05/23/06	740	740	47	0.3	0.24	< 0.05	< 0.05	67	0.05	-79	7.16	18.7
DUP0523061A	05/23/06	410	410	47	NA	0.24	< 0.05	< 0.05	68	0.08	NA	--	--
	03/07/06	430	430	51	1	0.23	< 0.05	< 0.05	74	< 0.04	-74.6	7.78	14.7
DUP0307061A	03/07/06	420	420	50	--	0.23	< 0.05	< 0.05	74	< 0.04	NR	NR	NR
610GW103CL	03/07/06	398	398	54.5	--	< 1 U	< 0.02 U	< 0.02 U	75.1	< 0.05 U UJ	NR	NR	NR
	12/01/05	500	500	170	0.66	0.23	< 0.05	< 0.05	28	< 0.04	NR	NR	NR

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Results of General Chemistry Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	**Field**	**Field**	**Field**
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	mV	pH units	ºC
610GW103	09/01/05	490	490	67	0.3	0.23	< 0.05	< 0.05	1.5	< 0.04	NR	NR	NR
DUP0901051A	09/01/05	460	460	67	--	0.24	< 0.05	< 0.05	1.4	< 0.04	NR	NR	NR
	06/02/05	470	470	120	0.2	0.26	< 0.05	< 0.05	55	0.06	NR	NR	NR
	03/22/05	400	400	93	0.7	0.22	0.08	< 0.05	140	< 0.04	NR	NR	NR
	12/21/04	NA	NA	NA	0.33	NA	NA	NA	NA	NA	NR	NR	NR
	12/16/04	530	530	270	0.2	0.2	< 0.05	< 0.05	47	< 0.04	NR	NR	NR
	08/10/04	480	480	72	0.2	0.2	< 0.05	< 0.05	5.5	< 0.04	NR	NR	NR
	05/26/04	430	430	60	0.5	0.23	< 0.05	< 0.05	26	NA	NR	NR	NR
	03/09/04	440	440	60	0.5	0.21	< 0.05	< 0.05	83	NA	NR	NR	NR
	12/03/03	510	510	78	1.1	0.16	< 0.05	< 0.05	13	NA	NR	NR	NR
DUP1203033A	12/03/03	510	510	77	--	0.19	< 0.05	< 0.05	14	NA	NR	NR	NR
610GW103CL	12/03/03	490	490	86	--	0.11	< 0.1	< 0.05	14.9	NA	NR	NR	NR
	08/18/03	470	470	64	0.2	0.28	< 0.05	< 0.05	9.6	NA	NR	NR	NR
DUP0818033A	08/18/03	470	470	67	--	0.28	< 0.05	< 0.05	10	NA	NR	NR	NR
	06/05/03	460	460	62	1	0.23	< 0.05	< 0.05	30	NA	NR	NR	NR
	03/11/03	490	490	76	0.6	0.26	< 0.05	< 0.05	93	NA	NR	NR	NR
	12/03/02	460	460	67	2.1	0.23	< 0.05	< 0.05	25	NA	NR	NR	NR
DUP1203022A	12/03/02	460	460	69	--	0.23	< 0.05	< 0.05	24	NA	NR	NR	NR
	08/29/02	450	450	61	1.8	0.32	< 0.25	< 0.25	18	NA	NR	NR	NR
	05/30/02	460	460	62	0.8	0.24	< 0.05	< 0.05	27	NA	NR	NR	NR
DUP0530022A	05/30/02	470	470	65	--	0.3	< 0.05	< 0.05	26	NA	NR	NR	NR
610GW103CL	05/30/02	450	450	57	--	< 1	< 1	< 1	26	NA	NR	NR	NR
	03/05/02	430	430	71	0.8	0.33	< 0.05	< 0.05	110	NA	NR	NR	NR
DUP0305023A	03/05/02	420	420	69	--	0.29	< 0.05	< 0.05	110	NA	NR	NR	NR
610GW103CL	03/05/02	410	410	65	--	< 1	< 1	< 1	110	NA	NR	NR	NR
	12/03/01	320	320	46	0.2	0.33	0.04 J,J	< 0.05 UJ	260	NA	NR	NR	NR
DUP1203011A	12/03/01	330	330	47	--	0.35	0.05 J,J	< 0.05 UJ	240	NA	NR	NR	NR
610GW103CL	12/03/01	310	310	49	--	< 1.0	< 1.0	< 1.0	300	NA	NR	NR	NR
	08/29/01	460	460	110	0.5	0.32	< 0.05	< 0.05	40	NA	NR	NR	NR

Table A-16-1
Results of General Chemistry Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	**Field**	**Field**	**Field**
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	mV	pH units	ºC
610SP01	03/21/06	470	470	99	1.27	0.24	< 0.05	< 0.05	62	< 0.04 R	-84	7.37	14.2
	09/01/05	440	440	7,300	0.4	< 1	< 0.5	< 1	930	< 0.04	NR	NR	NR
	06/01/05	430	430	350	1.6	0.21	< 0.05	< 0.05	130	< 0.04	NR	NR	NR
	12/21/04	NA	NA	NA	NM	NA	NA	NA	NA	NA	NR	NR	NR
	12/17/04	580	580	2,300	1.1	< 0.5	< 0.25	< 0.25	350	< 0.04	NR	NR	NR
	08/13/04	610	610	4,400	0.74	< 1	0.5	< 0.5	560	0.44	NR	NR	NR
	05/28/04	530	530	62	1.6	0.49	< 0.05	< 0.05	33	NA	NR	NR	NR
	03/16/04	460	460	79	1.45	0.26	0.16	< 0.05	160	NA	NR	NR	NR
	12/09/03	800	800	1,800	6.2	0.38	< 0.15	< 0.15	250	NA	NR	NR	NR
DUP1209031A	12/09/03	570	570	1,700	--	0.34	< 0.15	< 0.15	220	NA	NR	NR	NR
610SP01CL	12/09/03	620	620	1,280	--	0.23	< 0.1	< 0.05	225	NA	NR	NR	NR
	08/21/03	570	570	1,400	0.2	1.3	< 0.25	< 0.25	180	NA	NR	NR	NR
	06/11/03	380	380	5,800	0.8	< 2	< 1	< 1	780	NA	NR	NR	NR
	03/20/03	580	580	2,200	0.8	< 0.5	< 0.25	< 0.25	360	NA	NR	NR	NR
	12/11/02	370	370	5,500	0.8	< 1	< 0.5	< 0.5	820	NA	NR	NR	NR
	09/05/02	NA	NA	NA	0.4	NA	NA	NA	NA	NA	NR	NR	NR
610SP02	03/21/06	450	450	120	0.39	0.26	< 0.05	< 0.05	73	< 0.04 R	-84	7.29	13.7
	09/01/05	530	530	1200	0.8	0.21	< 0.1	< 0.15	140	< 0.04	NR	NR	NR
	06/01/05	510	510	170	1.7	0.33	< 0.05	< 0.05	37	< 0.04	NR	NR	NR
	12/21/04	NA	NA	NA	NM	NA	NA	NA	NA	NA	NR	NR	NR
	12/17/04	560	560	580	NM	0.29	< 0.05	< 0.05	89	< 0.04	NR	NR	NR
	08/13/04	420	420	12,000	0.84	< 2.5	< 1.3	< 1.3	1,700	0.08	NR	NR	NR
	05/28/04	620	620	220	NM	0.47	0.12	< 0.05	49	NA	NR	NR	NR
	03/16/04	490	490	480	0.99	0.44	< 0.05	< 0.05	130	NA	NR	NR	NR
	12/09/03	550	550	3,300	4.5	< 0.5	< 0.25	< 0.25	440	NA	NR	NR	NR
	08/21/03	450	450	7,700	0.4	< 2.5	< 1.3	< 1.3	1,100	NA	NR	NR	NR
	06/11/03	570	570	2,700	0.7	< 2	< 1	< 1	360	NA	NR	NR	NR

Table A-16-1
Results of General Chemistry Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Alkalinity Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Sulfide	ORP	pH	Temperature
	Analytical Method [1]	E310.1	E310.1	E300.0/ SW9056	Field	E300.0/ E340.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ E353.2/ SW9056	E300.0/ SW9056	E300.0/ SW9056	**Field**	**Field**	**Field**
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	mV	pH units	ºC
610SP02	03/20/03	460	460	3,700	0.9	< 1	< 0.5	< 0.5	500	NA	NR	NR	NR
	12/11/02	390	390	5,300	1	< 1	< 0.5	< 0.5	740	NA	NR	NR	NR
	09/05/02	NA	NA	NA	1	NA	NA	NA	NA	NA	NR	NR	NR

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - The QC laboratory reported results for Nitrogen as Nitrate and Nitrite combined.
3 - The QC laboratory reported results for Nitrogen as Nitrate and Nitrite combined. However, the combined Nitrogen as Nitrate and Nitrite result (< 0.5 mg/L) was rejected during data validation.
mg/L - milligrams per liter
NA - Not analyzed
NM - Not measured
"--" dissolved oxygen measurements were not taken for duplicate and quality control samples.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-16-2
Results of TPH Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**770**	**880**	**1,200**
600GW101	05/23/06	390 Y	< 50	< 300
	03/08/06	140 Y	< 50	< 300
	12/01/05	270 Y	< 50	< 300
	09/01/05	290 Y	< 80	< 480
	06/01/05	270 Y	< 50	< 300
DUP0601053A	06/01/05	280 Y	< 50	< 300
	03/21/05	390 HY J+	< 50	< 300
	12/16/04	460 HY	< 50	< 300
	08/10/04	390 Y	< 50	< 300
	05/26/04	570 Y	< 50	< 300
	03/09/04	600 HY	< 50	< 300
	12/02/03	340 Y	< 50	< 300
	08/13/03	370 Y	< 50	< 300
	06/09/03	470 Y	< 50	< 300
	03/11/03	630 Y	< 50	< 300
	12/04/02	310 Y	< 50	< 300
	09/10/02	230 J-	< 100 UJ	< 300 UJ
600GW102	03/15/06	< 50	< 50	< 300
	04/06/05	< 50	< 50	< 300
	03/09/04	< 50	< 50	< 300
	12/02/03	< 50	< 50	< 300
	08/13/03	< 50	< 50	< 300
	06/09/03	< 50	< 50	< 300
	03/11/03	< 50	< 50	< 300
	12/04/02	< 50	< 50	< 300
	09/10/02	< 50 UJ	< 100 UJ	< 300 UJ
600GW103	03/15/06	< 50	< 50	< 300
	04/11/05	< 50	< 50	< 300
	03/09/04	< 50	< 50	< 300
	12/02/03	< 50	< 50	< 300
	08/13/03	< 50	< 50	< 300
DUP0813033A	08/13/03	< 50	< 50	< 300
	06/09/03	< 50	< 50	< 300
	03/11/03	< 50	< 50	< 300
	12/04/02	< 50	< 50	< 300
	09/10/02	< 50 UJ	< 100 UJ	< 300 UJ
600GW104	03/15/06	< 50	< 50	< 300
	04/11/05	< 50	< 50	< 300
	03/09/04	< 50	< 50	< 300
	12/02/03	< 50	< 50	< 300
DUP1202033A	12/02/03	< 50	< 50	< 300
	08/18/03	< 50	< 50	< 300
	06/05/03	< 50	< 50	< 300
	03/11/03	< 50	< 50	< 300
DUP0311032A	03/11/03	< 50	< 50	< 300
600GW104CL	03/11/03	< 50	< 50 UJ	< 250
	12/04/02	< 50	< 50	< 300
	09/10/02	< 50 UJ	< 100 UJ	< 300 UJ
DUP0910021A	09/10/02	< 50 UJ	< 100 UJ	< 300 UJ
600GW105	05/23/06	< 50	< 50	< 300
	03/08/06	< 50	< 50	< 300
	12/01/05	< 50	< 50	< 300
	09/01/05	< 50	< 50	< 300
	06/01/05	< 50	< 50	< 300
	03/22/05	< 50	< 50	< 300
	12/16/04	< 50	< 50	< 300
	08/12/04	< 50	< 50	< 300
	03/10/04	< 50	< 50	< 300
	12/02/03	< 50	< 50	< 300
	08/13/03	< 50	< 50	< 300

Table A-16-2
Results of TPH Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**770**	**880**	**1,200**
600GW105	06/05/03	< 50	< 50	< 300
DUP0605033A	06/05/03	< 50	< 50	< 300
	03/12/03	< 50	< 50	< 300
	12/04/02	< 50	< 50	< 300
	09/11/02	< 50 UJ	< 100 UJ	< 300 UJ
600GW106	05/23/06	< 50	< 50	< 300
	03/08/06	< 50	< 50	< 300
	12/01/05	< 50	< 50	< 300
	09/01/05	< 50	< 50	< 300
	06/01/05	< 50	< 50	< 300
	03/29/05	< 50	< 50	< 300
	12/17/04	< 50	< 50	< 300
	08/10/04	< 50	< 50	< 300
	03/10/04	< 50	< 50	< 300
	12/02/03	< 50	< 50	< 300
	08/13/03	< 50	< 50	< 300
	06/05/03	< 50	< 50	< 300
	03/12/03	< 50	< 50	< 300
	12/04/02	< 50	< 50	< 300
	09/11/02	< 50 UJ	< 100 UJ	< 300 UJ
600GW107	03/20/06	< 50	< 50	< 300
	04/11/05	< 50	< 50	< 300
	03/10/04	< 50	< 50	< 300
	12/03/03	< 50	< 50	< 300
	08/13/03	< 50	170 HY	< 300
	06/06/03	< 50	< 50	< 300
	03/11/03	< 50	85 YH	< 300
	12/04/02	< 50	< 50	< 300
	09/11/02	< 50 UJ	NA	NA
600GW108	05/23/06	< 50	< 50	< 300
	03/07/06	< 50	< 50	< 300
DUP0307061B	03/07/06	< 50	< 50	< 300
	11/30/05	< 50	< 50	< 300
DUP1130051A	11/30/05	< 50	< 50	< 300
600GW108CL	11/30/05	< 50 U	< 50 U	< 300 U
	09/01/05	< 50	< 50	< 300
	06/01/05	< 50	< 50	< 300
	03/21/05	< 50	< 50	< 300
DUP0321052B	03/21/05	< 50	< 50	< 300
	12/17/04	< 50	< 50	< 300
	08/10/04	< 50	< 50	< 300
	05/26/04	< 50	< 50	< 300
	03/10/04	< 50	< 50	< 300
	12/03/03	< 50	< 50	< 300
	08/13/03	< 50	< 50	< 300
	06/05/03	< 50	< 50	< 300
	03/12/03	< 50	< 50	< 300
	12/09/02	< 50	< 50	< 300
DUP1209022C	12/09/02	< 50	< 50	< 300
600GW108CL	12/09/02	< 50	< 50	< 250
	09/10/02	< 50 UJ	< 100 UJ	< 300 UJ
600GW109	03/14/06	< 50	< 50	< 300
	04/01/05	< 50	< 50	< 300
	03/09/04	< 50	< 50	< 300
	12/03/03	< 50	< 50	< 300
	08/13/03	< 50	< 50	< 300
	06/05/03	< 50	< 50	< 300
	03/11/03	< 50	< 50	< 300
	12/04/02	< 50	< 50	< 300
	09/10/02	< 50 UJ	< 100 UJ	< 300 UJ

Table A-16-2
Results of TPH Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**770**	**880**	**1,200**
610GW101	05/23/06	< 50	< 50	< 300
	03/07/06	< 50	< 50	< 300
	12/01/05	< 50	< 50	< 300
	08/31/05	< 50	< 50	< 300
DUP0831051A	08/31/05	< 50	< 50	< 300
	06/02/05	< 50	< 50	< 300
	03/21/05	< 50	< 50	< 300
DUP0321052A	03/21/05	< 50	< 50	< 300
	12/15/04	< 50	< 50	< 300
DUP1215041A	12/15/04	< 50	< 50	< 300
610GW101CL	12/15/04	< 50 U	< 50 U	< 300 U
	08/10/04	< 50	< 50	< 300
	05/26/04	< 50	< 50	< 300
	03/10/04	< 50	< 50	< 300
DUP0310043A	03/10/04	< 50	< 50	< 300
610GW101CL	03/10/04	< 50	< 48	< 240
	12/02/03	< 50	< 50	< 300
	08/14/03	< 50	< 50	450
DUP0814033A	08/14/03	< 50	< 50	< 300
610GW101CL	08/14/03	< 50	< 48	< 240
	06/04/03	< 50	< 50	< 300
DUP0604033B	06/04/03	< 50	< 50	< 300
610GW101CL	06/04/03	< 50	< 50	< 250
	03/11/03	< 50	380 YH	**1,400**
	12/03/02	< 50	< 50	< 300
	08/29/02	< 50	< 50	< 300
	05/29/02	< 50	< 50	< 300
	03/05/02	< 50	< 50	< 300
	12/03/01	< 50	< 50	< 300
	08/29/01	< 50	NA	NA
610GW102	05/23/06	50 LY	< 50	< 300
	03/07/06	< 50	< 50	< 300
	12/01/05	62	< 50	< 300
	08/31/05	55	< 50	< 300
	06/02/05	52	< 50	< 300
	03/31/05	51	< 50	< 300
DUP0331052C	03/31/05	< 50	< 50	< 300
610GW102CL	03/31/05	< 50 U	< 50 U	< 300 U
	12/15/04	64	< 50	< 300
	08/11/04	< 50	< 50	< 300
DUP0811041A	08/11/04	50	< 50	< 300
610GW102CL	08/11/04	< 100	< 100 J-	< 400 UJ
	05/26/04	58 Y	< 50	< 300
	03/09/04	67	< 50	< 300
	12/02/03	83	< 50	< 300
	08/18/03	73 Y	< 50	< 300
	06/05/03	67	< 50	< 300
	03/11/03	< 50	< 50	< 300
DUP0311033A	03/11/03	< 50	< 50	< 300
	12/03/02	55 Y	< 50	< 300
	08/29/02	67	< 50	< 300
	05/29/02	< 50	< 50	< 300
	03/05/02	72	< 50	< 300
	12/03/01	< 50	< 50	< 300
	08/29/01	230	NA	NA

Table A-16-2
Results of TPH Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**770**	**880**	**1,200**
610GW103	05/23/06	< 50	< 50	< 300
DUP0523061A	05/23/06	< 50	< 50	< 300
	03/07/06	< 50	< 50	< 300
DUP0307061A	03/07/06	< 50	< 50	< 300
610GW103CL	03/07/06	< 50 U	< 50 U	< 300 U
	12/01/05	< 50	< 50	< 300
	09/01/05	60 Y	< 50	< 300
DUP0901051A	09/01/05	< 50	< 50	< 300
	06/02/05	< 50	< 50	< 300
	03/22/05	< 50	< 50	< 300
	12/16/04	52 HY	< 50	< 300
	08/10/04	61 Y	< 50	< 300
	05/26/04	< 50	< 50	< 300
	03/09/04	69	< 50	< 300
	12/03/03	64	< 50	< 300
DUP1203033A	12/03/03	60	< 50	< 300
610GW103CL	12/03/03	< 50	< 48 A-01,U	< 240
	08/18/03	110 Y	< 50	< 300
DUP0818033A	08/18/03	110 Y	62 Y	< 300
	06/05/03	96	< 50	< 300
	03/11/03	< 50	< 50	< 300
	12/03/02	< 50	< 50	< 300
DUP1203022A	12/03/02	54 Y	< 50	< 300
	08/29/02	59	< 50	< 300
	05/30/02	88	< 50	< 300
DUP0530022A	05/30/02	88	< 50	< 300
610GW103CL	05/30/02	110 g	< 50	< 300
610GW103	03/05/02	100	< 50	< 300
DUP0305023A	03/05/02	110	< 50	< 300
610GW103CL	03/05/02	95 g	< 50 UJ	< 300
	12/03/01	< 50	< 50	< 300
DUP1203011A	12/03/01	< 50	< 50	< 300
610GW103CL	12/03/01	< 50	< 50	< 500
	08/29/01	430	NA	NA
610SP01	03/21/06	83 Y	< 50	< 300
	09/01/05	67 Y	< 50	< 300
	06/01/05	99 Y	< 50	< 300
	12/17/04	85 HY	< 50	< 300
	08/13/04	51	< 50	< 300
	05/28/04	54	< 50	< 300
	03/16/04	< 50	< 50	< 300
	12/09/03	100 Y	< 50	< 300
DUP1209031A	12/09/03	100 Y	< 50	< 300
610SP01CL	12/09/03	58	< 48	< 240
	08/21/03	< 50	< 50	< 300
	06/11/03	56 Y	< 50	< 300
	03/20/03	81	< 50	< 300
	12/11/02	< 50	< 50	< 300
	09/05/02	< 50	< 50	< 300
	02/14/02	88	< 50	< 300
	08/30/01	80	< 50	< 300
	07/19/01	130 Y	130 Y	< 300
	05/25/01	87	< 50	< 300
	04/05/01	150 Y	80 Y	< 300
	12/27/00	NA	< 50	NA
	08/02/00	450	NA	NA
	06/27/00	170	NA	NA
	05/09/00	480 Y	NA	NA
	04/06/00	460 Y	NA	NA

Table A-16-2
Results of TPH Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**770**	**880**	**1,200**
610SP01	02/09/00	440 Y	NA	NA
	01/04/00	**810**	NA	NA
	12/03/99	660 Y	NA	NA
	11/18/99	570	< 50	< 300
610SP02	03/21/06	66 Y	< 50	< 300
	09/01/05	110 Y	< 50	< 300
	06/01/05	120 Y	< 50	< 300
	12/17/04	150 HY	< 50	< 300
	08/13/04	< 50	< 50	< 300
	05/28/04	56	< 50	< 300
	03/16/04	81	< 50	< 300
	12/09/03	240 Y	< 50	< 300
	08/21/03	85	< 50	< 300
	06/11/03	71 Y	< 50	< 300
	03/20/03	97	< 50	< 300
	12/11/02	130 Y	< 50	< 300
	09/05/02	120 Y	< 50	< 300
	02/14/02	140	< 50	< 300
	08/30/01	190	< 50	< 300
	07/19/01	57 Y	250 Y	< 300
	05/25/01	110	170 Y	< 300
	04/05/01	150 Y	63 Y	< 300
	12/27/00	NA	< 50	NA
	08/02/00	67	NA	NA
	06/27/00	73	NA	NA
	05/09/00	280 Y	NA	NA
	04/06/00	110 Y	NA	NA
	02/09/00	210 Y	NA	NA
	12/03/99	95 Y	NA	NA

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Groundwater cleanup levels were taken from the *Revised Final Corrective Action Plan for the Commissary/Post Exchange Study Area, Presidio of San Francisco, California* (Treadwell & Rollo, 2006)
Concentrations in **BOLD** indicate an exceedance of applicable cleanup levels.
µg/L - micrograms per liter
TPH - Total petroleum hydrocarbons
NA - Not analyzed
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-16-3
Results of VOC Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Benzene	Chloroform	Ethylbenzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**1**	**--**	**43**	**13**	**150**	**130**	**--**
600GW101	05/23/06	< 0.5	NA	< 0.5	3.3 C	< 0.5	< 1	NA
	03/08/06	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	12/01/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	09/01/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	06/01/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
DUP0601053A	06/01/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	03/21/05	< 0.5	NA	< 0.5	2.3	< 0.5	0.54 C	NA
	12/16/04	< 0.5	NA	< 0.5	< 2	< 0.5	2 C	NA
	08/10/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	05/26/04	< 0.5	NA	2.2	3.5 C	< 0.5	3.1	NA
	03/09/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	12/02/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/11/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/10/02	< 0.5	< 0.5	< 0.5	< 2.0	< 0.5	< 1.0	ND
600GW102	03/15/06	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	04/06/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/09/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/11/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/10/02	< 0.5	< 0.5	< 0.5	< 2.0	< 0.5	< 1.0	ND
600GW103	03/15/06	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	04/11/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/09/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0813033A	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/09/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/11/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/10/02	< 0.5	< 0.5	< 0.5	< 2.0	< 0.5	< 1.0	ND
600GW104	03/15/06	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	04/11/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/09/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP1202033A	12/02/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/18/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/05/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/11/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0311032A	03/11/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
600GW104CL	03/11/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/10/02	< 0.5	< 0.5	< 0.5	< 2.0	< 0.5	< 1.0	ND
DUP0910021A	09/10/02	< 0.5	< 0.5	< 0.5	< 2.0	< 0.5	< 1.0	ND

Table A-16-3
Results of VOC Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Benzene	Chloroform	Ethylbenzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**1**	**--**	**43**	**13**	**150**	**130**	**--**
600GW105	03/08/06	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/22/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/05/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
DUP0605033A	06/05/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/12/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/11/02	< 0.5	< 0.5	< 0.5	< 2	< 0.5	< 1	ND
600GW106	03/08/06	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/29/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/02/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/05/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/12/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/11/02	< 0.5	< 0.5	< 0.5	< 2	< 0.5	< 1	ND
600GW107	03/20/06	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	04/11/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/06/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/11/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/11/02	< 0.5	< 0.5	< 0.5	< 2	< 0.5	< 1	ND
600GW108	03/07/06	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0307061B	03/07/06	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	11/30/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
DUP1130051A	11/30/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
600GW108CL	11/30/05	< 0.5 U	< 0.5 U	< 0.5 U	< 2 U	< 0.5 U	< 1 U	ND
	09/01/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	06/01/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/21/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
DUP0321052B	03/21/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	12/17/04	< 0.5	0.7	< 0.5	< 0.5	< 0.5	< 1	ND
	08/10/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	05/26/04	< 0.5	11	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/10/04	< 0.5	4.6	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/03/03	< 0.5	7.9	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 0.5	1.3	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/05/03	< 0.5	4.7	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/12/03	< 0.5	3.7	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/09/02	< 0.5	2.7	< 0.5	< 0.5 UJ	< 0.5	< 0.5	ND
DUP1209022C	12/09/02	< 0.5	3	< 0.5	< 0.5 UJ	< 0.5	< 0.5	ND
600GW108CL	12/09/02	< 0.5	2.6	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/10/02	< 0.5	< 0.5	< 0.5	< 2.0	< 0.5	< 1.0	ND

Table A-16-3
Results of VOC Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Benzene	Chloroform	Ethylbenzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**1**	**--**	**43**	**13**	**150**	**130**	**--**
600GW109	03/14/06	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	04/01/05	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	ND
	03/09/04	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/03/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	08/13/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	06/05/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	03/11/03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	12/04/02	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND
	09/10/02	< 0.5	< 0.5	< 0.5	< 2.0	< 0.5	< 1.0	ND
610GW101	05/23/06	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	03/07/06	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	12/01/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	08/31/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
DUP0831051A	08/31/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	06/02/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	03/21/05	< 0.5	NA	< 0.5	2.2	< 0.5	< 1	NA
DUP0321052A	03/21/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	12/15/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
DUP1215041A	12/15/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
610GW101CL	12/15/04	< 0.5 U	NA	< 0.5 U	< 2.5 U	< 0.5 U	< 1 U	NA
	08/10/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	05/26/04	< 0.5	NA	< 0.5	4.3 C	< 0.5	< 0.5	NA
	03/10/04	< 0.5	NA	< 0.5	< 2 C,U	< 0.5	< 0.5	NA
DUP0310043A	03/10/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
610GW101CL	03/10/04	< 0.5	NA	< 0.5	< 2.5	< 0.5	< 0.5	NA
	12/02/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	08/14/03	< 0.5	NA	< 0.5	3	< 0.5	< 0.5	NA
DUP0814033A	08/14/03	< 0.5	NA	< 0.5	2.9	< 0.5	< 0.5	NA
610GW101CL	08/14/03	< 0.5	NA	< 0.5	< 2.5	0.81	0.71	NA
	06/04/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
DUP0604033B	06/04/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
610GW101CL	06/04/03	< 0.5	NA	< 0.5	< 2.5	< 0.5	< 0.5	NA
	03/11/03	< 0.5	NA	< 0.5	2.7	< 0.5	< 0.5	NA
	12/03/02	< 0.5	NA	< 0.5	2.2	< 0.5	< 0.5	NA
	08/29/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	05/29/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	03/05/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	12/03/01	< 0.5	NA	< 0.5	< 2	< 0.5	NA	NA
	08/29/01	< 0.5	NA	< 0.5	< 2	< 0.5	NA	NA
610GW102	05/23/06	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	03/07/06	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	12/01/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	08/31/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	06/02/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	03/31/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	03/31/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	03/31/05	< 1 U	NA	< 1 U	< 5 U	< 1 U	< 2 U	NA
	12/15/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA

Table A-16-3
Results of VOC Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Benzene	Chloroform	Ethylbenzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**1**	**--**	**43**	**13**	**150**	**130**	**--**
610GW102	08/11/04	< 0.5	NA	< 0.5	2.1	< 0.5	< 0.5	NA
DUP0811041A	08/11/04	< 0.5	NA	< 0.5	4.4	< 0.5	< 0.5	NA
610GW102CL	08/11/04	< 1	NA	< 1	< 1 UJ	< 1	< 1	NA
	05/26/04	< 0.5	NA	< 0.5	4.8	< 0.5	< 0.5	NA
	03/09/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	12/02/03	0.53	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	08/18/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	06/05/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	03/11/03	< 0.5	NA	< 0.5	2.4	< 0.5	< 0.5	NA
DUP0311033A	03/11/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	12/03/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	08/29/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	05/29/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	03/05/02	< 0.5	NA	0.78	< 2	< 0.5	< 0.5	NA
	12/03/01	< 0.5	NA	< 0.5	< 2	< 0.5	NA	NA
	08/29/01	< 0.5	NA	< 0.5	< 2	< 0.5	NA	NA
610GW103	05/23/06	< 0.5	NA	< 0.5	3.2 C	< 0.5	< 1	NA
DUP0523061A	05/23/06	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	03/07/06	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
DUP0307061A	03/07/06	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
0GW103CL03/07	03/07/06	< 0.5 U	NA	< 0.5 U	< 2.5 U	< 0.5 U	< 1 U	NA
	12/01/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	09/01/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
DUP0901051A	09/01/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	06/02/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	03/22/05	< 0.5	NA	< 0.5	2.1	< 0.5	< 1	NA
	12/16/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	08/10/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	05/26/04	< 0.5	NA	< 0.5	3.9 C	< 0.5	< 0.5	NA
	03/09/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	12/03/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
DUP1203033A	12/03/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
610GW103CL	12/03/03	< 0.5	NA	< 0.5	< 2	< 0.5	0.64	NA
	08/18/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
DUP0818033A	08/18/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	06/05/03	< 0.5	NA	0.69 C	< 2	< 0.5	< 0.5	NA
	03/11/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	12/03/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
DUP1203022A	12/03/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	08/29/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	05/30/02	< 0.5	NA	1.0	< 2	< 0.5	< 0.5	NA
	05/30/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
610GW103CL	05/30/02	< 0.5	NA	< 0.5	< 5	< 0.5	< 0.5	NA
	03/05/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
DUP0305023A	03/05/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
610GW103CL	03/05/02	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	NA
	12/03/01	< 0.5	NA	< 0.5	< 2	< 0.5	NA	NA
DUP1203011A	12/03/01	< 0.5	NA	< 0.5	< 2	< 0.5	NA	NA
610GW103CL	12/03/01	< 0.5	NA	< 0.5	< 5	< 0.5	< 0.5	NA
	08/29/01	< 0.5	NA	4.9	< 2	< 0.5	NA	NA

Table A-16-3
Results of VOC Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Benzene	Chloroform	Ethylbenzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**1**	**--**	**43**	**13**	**150**	**130**	**--**
610SP01	03/21/06	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	09/01/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	06/01/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	12/17/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	08/13/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	05/28/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	03/16/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	12/09/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
DUP1209031A	12/09/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
610SP01CL	12/09/03	< 0.5	NA	< 0.5	< 2.5	< 0.5	< 0.5	NA
	08/21/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	06/11/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	03/20/03	< 0.5	NA	0.54 C	< 2	< 0.5	< 0.5	NA
	12/11/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	09/05/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	08/30/01	< 0.5	NA	< 0.5	2.5	< 0.5	< 0.5	NA
	07/19/01	< 0.5	NA	2.3 C	2.7	< 0.5	< 0.5	NA
	05/25/01	< 0.5	NA	< 0.5	< 2.0	< 0.5	0.53	NA
	04/05/01	< 0.5	NA	< 0.5	2.2	< 0.5	1.5	NA
	08/02/00	< 0.5	NA	2.1	< 2	1.3	2.14 C	NA
	06/27/00	< 0.5	NA	< 0.5	< 2	< 0.5	0.8	NA
	05/09/00	< 0.5	NA	3	3.3 C	0.93	2	NA
	04/06/00	< 0.5	NA	6.8 C	< 2	4.8 C	0.76	NA
	02/09/00	< 0.5	NA	4.9 C	2	4.9	1.4 C	NA
	01/04/00	< 0.5	NA	4.7	NA	< 0.5	1.2 C	NA
	12/03/99	< 0.5	NA	11 C	NA	6.4	3.6	NA
	11/18/99	< 0.5	NA	3.7	NA	3.8	5 C	NA
610SP02	03/21/06	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	09/01/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	06/01/05	< 0.5	NA	< 0.5	< 2	< 0.5	< 1	NA
	12/17/04	< 0.5	NA	< 0.5	< 2	< 0.5	1.3 C	NA
	08/13/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	05/28/04	< 0.5	NA	< 0.5	2 C	< 0.5	< 0.5	NA
	03/16/04	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	12/09/03	< 0.5	NA	< 0.5	< 2	< 0.5	0.58	NA
	08/21/03	< 0.5	NA	< 0.5	**15**	< 0.5	< 0.5	NA
	06/11/03	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	03/20/03	< 0.5	NA	1.7 C	< 2	< 0.5	0.52	NA
	12/11/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	09/05/02	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	08/30/01	< 0.5	NA	1.4 C	< 2.0	< 0.5	0.6	NA
	07/19/01	< 0.5	NA	< 0.5	3	< 0.5	< 0.5	NA
	05/25/01	< 0.5	NA	< 0.5	4	< 0.5	< 0.5	NA

Table A-16-3
Results of VOC Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Benzene	Chloroform	Ethylbenzene	MTBE	Toluene	Total Xylenes	All Other VOCs
	Analytical Method[1]	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M	SW8020/ SW8021/ SW8021B/ SW8260/ SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**1**	**--**	**43**	**13**	**150**	**130**	**--**
610SP02	04/05/01	< 0.5	NA	< 0.5	< 2.0	< 0.5	< 0.5	NA
	08/02/00	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	06/27/00	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	05/09/00	< 0.5	NA	1.3	< 2	0.69 C	0.71	NA
	04/06/00	< 0.5	NA	< 0.5	< 2	< 0.5	< 0.5	NA
	02/09/00	< 0.5	NA	2.1	< 2.0	< 0.5	0.53	NA
	12/03/99	< 0.5	NA	0.82 C	NA	< 0.5	< 0.5	NA

Notes

1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.

2 - Groundwater cleanup levels were taken from the *Revised Final Corrective Action Plan for the Commissary/Post Exchange Study Area, Presidio of San Francisco, California* (Treadwell & Rollo, 2006).

Concentrations in **BOLD** indicate an exceedance of applicable cleanup levels.

µg/L - micrograms per liter

MTBE - Methyl tertiary butyl ether

VOC - Volatile organic compound

NA - Not analyzed

ND - Not detected

CL suffix denotes a quality control duplicate sample was sent to the control laboratory.

Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.

Table 11 in the main report identifies current and historical data qualifiers.

-- - cleanup level not established

Table A-16-4
Results of PAH Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Acenaph-thene	Anthracene	Benzo(a)-Anthracene	Benzo(a)-Pyrene	Benzo(b)-Fluoranthene	Benzo(g,h,i)-Perylene	Benzo(k)-Fluoranthene	Chrysene	Dibenz(a,h)-Anthracene	Fluor-anthene	Indeno (1,2,3-c,d) Pyrene	Phen-anthrene	Pyrene	All Other PAHs
	Analytical Method[1]	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**770**	**0.1**	**0.2**	**0.2**	**150**	**2**	**20**	**--**	**300**	**--**	**230**	**230**	**--**
600GW101	12/02/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	08/13/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	06/09/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	03/11/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	12/04/02	< 1	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 0.14	< 0.5	< 0.2	ND
	09/10/02	< 5.0	< 0.2	< 0.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.2	< 0.2	< 1.0	< 0.2	ND
600GW102	03/15/06	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	04/06/05	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.14	< 0.49	< 0.19	ND
	03/09/04	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.14	< 0.49	< 0.2	ND
	12/02/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	08/13/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	06/09/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	03/11/03	< 0.96	< 0.48	< 0.1	0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	12/04/02	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.14	< 0.49	< 0.19	ND
	09/10/02	< 5.0	< 0.2	< 0.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.2	< 0.2	< 1.0	< 0.2	ND
600GW103	03/15/06	7.4	0.02 J	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	0.02 J	< 0.13	< 0.47	< 0.19	ND
	04/11/05	7.7	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.14	< 0.49	< 0.2	ND
	03/09/04	7.3	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	12/02/03	7.3	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	08/13/03	9	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
DUP0813033A	08/13/03	7.4	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	06/09/03	8.9	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	03/11/03	5.6	< 0.48	< 0.1	0.18	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	12/04/02	6.4	< 0.47	< 0.09	**0.34**	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	09/10/02	< 5.0	< 0.2	< 0.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.2	< 0.2	< 1.0	< 0.2	ND
600GW104	03/15/06	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	04/11/05	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.14	< 0.49	< 0.2	ND
	03/09/04	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	12/02/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
DUP1202033A	12/02/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	08/18/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	06/05/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	03/11/03	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	0.14	< 0.19	< 0.39	< 0.14	< 0.49	< 0.19	ND
DUP0311032A	03/11/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
600GW104CL	03/11/03	< 0.5	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.05	< 0.2	< 0.1	< 0.05	< 0.05	< 0.05	ND
	12/04/02	< 0.94 UJ	< 0.47 UJ	< 0.09 UJ	< 0.09 UJ	< 0.19 UJ	< 0.19 UJ	< 0.09 UJ	< 0.09 UJ	< 0.19 UJ	< 0.38 UJ	< 0.13 UJ	< 0.47 UJ	< 0.19 UJ	ND
	09/10/02	< 5.0	< 0.2	< 0.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.2	< 0.2	< 1.0	< 0.2	ND
DUP0910021A	09/10/02	< 5.0	< 0.2	< 0.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.2	< 0.2	< 1.0	< 0.2	ND

Table A-16-4
Results of PAH Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Acenaph-thene	Anthracene	Benzo(a)-Anthracene	Benzo(a)-Pyrene	Benzo(b)-Fluoranthene	Benzo(g,h,i)-Perylene	Benzo(k)-Fluoranthene	Chrysene	Dibenz(a,h)-Anthracene	Fluor-anthene	Indeno (1,2,3-c,d) Pyrene	Phen-anthrene	Pyrene	All Other PAHs
	Analytical Method[1]	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**770**	**0.1**	**0.2**	**0.2**	**150**	**2**	**20**	**--**	**300**	**--**	**230**	**230**	**--**
600GW105	03/08/06	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	03/22/05	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.14	< 0.49	< 0.19	ND
	03/10/04	< 1.1	< 0.56	< 0.11	< 0.11	< 0.22	< 0.22	< 0.11	< 0.11	< 0.22	< 0.44	< 0.16	< 0.56	< 0.22	ND
	12/02/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	08/13/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	06/05/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
DUP0605033A	06/05/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	03/12/03	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.14	< 0.49	< 0.19	ND
	12/04/02	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	09/11/02	< 5	< 0.2	< 0.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.2	< 0.2	< 1	< 0.2	ND
600GW106	03/08/06	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	03/29/05	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.14	< 0.49	< 0.2	ND
	03/10/04	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	12/02/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	08/13/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	06/05/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	03/12/03	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.14	< 0.49	< 0.19	ND
	12/04/02	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	09/11/02	< 5	< 0.2	< 0.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.2	< 0.2	< 1	< 0.2	ND
600GW107	03/20/06	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	0.03 J	< 0.13	< 0.48	< 0.19	ND
	04/11/05	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.14	< 0.49	< 0.2	ND
	03/10/04	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.14	< 0.49	< 0.19	ND
	08/13/03	< 1	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	0.05 J	< 0.14	< 0.5	< 0.2	ND
	06/06/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	0.1	< 0.19	0.07 J	< 0.13	< 0.47	< 0.19	ND
	03/11/03	< 0.95	0.19 J	**0.24**	**0.22**	**0.34**	0.4	0.15	0.62	0.4	0.49	0.21	0.51	0.53	ND
	12/04/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/11/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
600GW108	03/07/06	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
DUP0307061B	03/07/06	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.14	< 0.49	< 0.19	ND
	11/30/05	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.14	< 0.49	< 0.19	ND
DUP1130051A	11/30/05	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.14	< 0.49	< 0.2	ND
600GW108CL	11/30/05	< 5 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.5 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	ND
	09/01/05	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.14	< 0.49	< 0.19	ND
	06/01/05	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.13	< 0.48	< 0.19	ND
	03/21/05	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.14	< 0.49	< 0.19	ND
DUP0321052B	03/21/05	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.14	< 0.49	< 0.19	ND
	12/17/04	< 0.97	< 0.49	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.39	< 0.14	< 0.49	< 0.19	ND
	08/10/04	< 0.98	< 0.49	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.39	< 0.14	< 0.49	< 0.2	ND
	05/26/04	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	03/10/04	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	12/03/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	08/13/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND

Table A-16-4
Results of PAH Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Acenaph-thene	Anthracene	Benzo(a)-Anthracene	Benzo(a)-Pyrene	Benzo(b)-Fluoranthene	Benzo(g,h,i)-Perylene	Benzo(k)-Fluoranthene	Chrysene	Dibenz(a,h)-Anthracene	Fluor-anthene	Indeno (1,2,3-c,d) Pyrene	Phen-anthrene	Pyrene	All Other PAHs
	Analytical Method[1]	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310	SW8270/ SW8310
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [2]		**--**	**770**	**0.1**	**0.2**	**0.2**	**150**	**2**	**20**	**--**	**300**	**--**	**230**	**230**	**--**
600GW108	06/05/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	03/12/03	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	12/09/02	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
DUP1209022C	12/09/02	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
600GW108CL	12/09/02	< 0.5	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.05	< 0.2	< 0.1	< 0.05	< 0.05	< 0.05	ND
	09/10/02	< 5.0	< 0.2	< 0.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.2	< 0.2	< 1.0	< 0.2	ND
600GW109	03/14/06	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	04/01/05	< 0.96	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	03/09/04	< 1	< 0.5	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.2	< 0.4	< 0.14	< 0.5	< 0.2	ND
	12/03/03	< 0.94	< 0.47	< 0.09	< 0.09	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	08/13/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	06/05/03	< 0.95	< 0.48	< 0.1	< 0.1	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	03/11/03	< 0.96	< 0.48	< 0.1	0.11	< 0.19	< 0.19	< 0.1	< 0.1	< 0.19	< 0.38	< 0.13	< 0.48	< 0.19	ND
	12/04/02	< 0.94	< 0.47	< 0.09	0.15	< 0.19	< 0.19	< 0.09	< 0.09	< 0.19	< 0.38	< 0.13	< 0.47	< 0.19	ND
	09/10/02	< 5.0	< 0.2	< 0.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.2	< 0.2	< 1.0	< 0.2	ND

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in the respective quarterly reports.
2 - Groundwater cleanup levels were taken from the *Revised Final Corrective Action Plan for the Commissary/Post Exchange Study Area, Presidio of San Francisco, California* (Treadwell & Rollo, 2006).
Concentrations in **BOLD** indicate an exceedance of applicable cleanup levels.
-- cleanup level not established
µg/L - micrograms per liter
PAHs - Polycyclic aromatic hydrocarbons
NA - Not analyzed
ND - Not detected
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-16-5
Results of Total and Dissolved Metals Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Aluminum	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [2]		**--**	**10**	**10**	**5**	**--**	**50**	**2.9**	**--**	**5.6**	**--**	**--**	**7.1**	**--**	**--**	**58**	**--**
600GW101	05/23/06	< 100	< 5	NA	< 1	99,000	< 10	2.1	9,600	< 3	56,000	1,400	< 20	15,000	150,000	< 20	880
	03/08/06	< 100	5.1	NA	< 1	87,000	< 10	< 1	7,000	< 3	44,000	900	< 20	10,000	110,000	< 20	800
	12/01/05	< 100	< 5	NA	< 1	77,000	< 10	< 1	11,000	< 3	43,000	1,200	< 20	13,000	140,000	< 20	850
	09/01/05	< 100	< 5	1.3 J	< 1	81,000	< 10	< 1	11,000	< 3	47,000	970	< 20	16,000 J	190,000	< 20	740
	06/01/05	< 100	< 5	2.12	< 1	90,000	< 10	< 1	10,000	< 3	49,000	1,200	< 20	15,000 J	150,000	< 20	860
DUP0601053A	06/01/05	< 100	< 5	2.34	< 1	100,000	< 10	< 1	10,000	< 3	55,000	1,300	< 20	15,000 J	170,000	< 20	930
	03/21/05	< 100	< 5	3.16	< 1	100,000	< 10	< 1	9,200	< 3	48,000	1,300	< 20	13,000	120,000	< 20	870
	12/22/04	NA	NA	2.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/16/04	NA	< 5	NA	< 1	NA	< 10	< 1	350	< 3	NA	NA	< 20	NA	NA	< 20	930
	08/10/04	NA	< 5	NA	< 1	NA	< 10	< 1	10,000	< 3	NA	NA	< 20	NA	NA	< 20	900
	05/26/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	890
	03/09/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	890
	12/02/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	730
	08/13/03	NA	< 5	NA	< 1	NA	< 10	2.3	NA	< 3	NA	NA	< 20	NA	NA	< 20	790
	06/09/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	980
	03/11/03	NA	5.8	NA	< 1	NA	4.7	< 1	NA	< 3	NA	NA	3.4	NA	NA	< 20	950
	12/04/02	NA	1.7	NA	< 1	NA	6.3	< 1	NA	< 3	NA	NA	2.2	NA	NA	< 20	890
	09/10/02	NA	< 5.0	NA	< 5.0	NA	< 10	< 20	NA	< 15	NA	NA	< 50	NA	NA	**88**	NA
600GW102	03/15/06	< 100	< 5	NA	< 1	180,000	< 10	1.1	2,500 J	< 3	54,000	370	< 20	12,000 J	180,000	< 20	1,110 J
	04/06/05	< 100	< 5	1.14	< 1	150,000	< 10	< 1	3,000	< 3	46,000	270	< 20	9,900	140,000	< 20	810
	03/09/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	910
	12/02/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	590
	08/13/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	1,990
	06/09/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	1,400
	03/11/03	NA	3.4	NA	< 1	NA	2	< 1	NA	< 3	NA	NA	4.3	NA	NA	< 20	720
	12/04/02	NA	3	NA	< 1	NA	1.9	< 1	NA	< 3	NA	NA	4.3	NA	NA	< 20	1,450
	09/10/02	NA	6.2	NA	< 5.0	NA	< 10	< 20	NA	< 15	NA	NA	< 50	NA	NA	**140**	NA
600GW103	03/15/06	< 100	< 5	NA	< 1	130,000	< 10	< 1	13,000 J	< 3	35,000	4,000	< 20	13,000 J	86,000	< 20	790 J
	04/11/05	< 100	5.4	3.21	< 1	110,000	< 10	< 1	11,000	< 3	31,000	3,200	< 20	13,000	84,000	< 20	780
	03/09/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	680
	12/02/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	580
	08/13/03	NA	7.2	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	620
DUP0813033A	08/13/03	NA	9.7	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	670
	06/09/03	NA	7.6	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	770
	03/11/03	NA	4	NA	< 1	NA	1.2	< 1	NA	< 3	NA	NA	2.9	NA	NA	< 20	670
	12/04/02	NA	4.2	NA	< 1	NA	3.1	< 1	NA	< 3	NA	NA	3.3	NA	NA	< 20	660
	09/10/02	NA	6.7	NA	< 5.0	NA	< 10	< 20	NA	< 15	NA	NA	< 50	NA	NA	**120**	NA
600GW104	03/15/06	< 100	< 5	NA	< 1	130,000	< 10	1.4	2,200 J	< 3	50,000	420	< 20	5,500 J	44,000	< 20	510 J
	04/11/05	< 100	< 5	2.18	< 1	120,000	< 10	< 1	1,100	< 3	52,000	330	< 20	6,500	48,000	< 20	440
	03/09/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	500
	12/02/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	370
DUP1202033A	12/02/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	330
	08/18/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20 UJ	530

Table A-16-5
Results of Total and Dissolved Metals Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Aluminum	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [2]		**--**	**10**	**10**	**5**	**--**	**50**	**2.9**	**--**	**5.6**	**--**	**--**	**7.1**	**--**	**--**	**58**	**--**
600GW104	06/05/03	NA	< 5	NA	< 1	NA	< 10	1.2	NA	< 3	NA	NA	< 20	NA	NA	< 20	620
	03/11/03	NA	< 1	NA	< 1	NA	< 1	1	NA	< 3	NA	NA	**7.3**	NA	NA	< 20	800
DUP0311032A	03/11/03	NA	< 1	NA	< 1	NA	1.8	1.1	NA	< 3	NA	NA	**7.1**	NA	NA	< 20	870
600GW104CL	03/11/03	NA	6.5	NA	< 1	NA	< 5	< 5	NA	< 3	NA	NA	**8.8**	NA	NA	14	960
	12/04/02	NA	1.3	NA	< 1	NA	1.4	< 1	NA	< 3	NA	NA	5.1	NA	NA	< 20	540
	09/10/02	NA	< 5.0	NA	< 5.0	NA	< 10	< 20	NA	< 15	NA	NA	< 50	NA	NA	55	NA
DUP0910021A	09/10/02	NA	< 5.0	NA	< 5.0	NA	< 10	< 20	NA	< 15	NA	NA	< 50	NA	NA	**79**	NA
600GW105	05/23/06	< 100	< 5	NA	< 1	37,000	< 10	< 1	3,500	< 3	49,000	3,800	< 20	910	120,000	< 20	640
	03/08/06	< 100	< 5	NA	< 1	32,000	< 10	< 1	2,500	< 3	42,000	3,300	< 20	710	96,000	< 20	550
	12/01/05	< 100	< 5	NA	< 1	34,000	< 10	< 1	3,000	< 3	44,000	3,700	< 20	870	100,000	< 20	560
	09/01/05	< 100	< 5	NA	< 1	36,000	< 10	< 1	3,300	< 3	52,000	3,800	< 20	960 J	130,000	< 20	530
	06/01/05	< 100	< 5	NA	< 1	39,000	< 10	< 1	2,600	< 3	47,000	3,700	< 20	740 J	110,000	< 20	590
	03/22/05	< 100	< 5	NA	< 1	32,000	< 10	< 1	1,600	< 3	43,000	3,300	< 20	700	100,000	< 20	550
	12/22/04	NA	NA	0.931	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/16/04	NA	< 5	NA	< 1	NA	< 10	1.5	290	< 3	NA	NA	< 20	NA	NA	< 20	540
	08/12/04	NA	< 5	NA	< 1	NA	< 10	< 1	1,800	< 3	NA	NA	< 20	NA	NA	< 20	660
	03/10/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	600
	12/02/03	NA	< 5	NA	< 1	NA	< 10	1.1	NA	< 3	NA	NA	< 20	NA	NA	< 20	420
	08/13/03	NA	< 5	NA	< 1	NA	< 10	1.4	NA	< 3	NA	NA	< 20	NA	NA	< 20	470
	06/05/03	NA	< 5	NA	< 1	NA	< 10	1.1	NA	< 3	NA	NA	< 20	NA	NA	< 20	550
DUP0605033A	06/05/03	NA	< 5	NA	< 1	NA	< 10	1.6	NA	< 3	NA	NA	< 20	NA	NA	< 20	510
	03/12/03	NA	< 1	NA	< 1	NA	< 1	1.9	NA	< 3	NA	NA	**11**	NA	NA	< 20	560
	12/04/02	NA	< 1	NA	< 1	NA	1.5	**4.2**	NA	< 3	NA	NA	**9.1**	NA	NA	< 20	560
	09/11/02	NA	< 5	NA	< 5	NA	< 10	< 20	NA	< 15	NA	NA	< 50	NA	NA	**130**	NA
600GW106	05/23/06	< 100	< 5	NA	< 1	22,000	< 10	< 1	< 100	< 3	32,000	1,300	< 20	< 500	88,000	< 20	380
	03/08/06	< 100	< 5	NA	< 1	23,000	< 10	< 1	< 100	< 3	34,000	820	< 20	< 500	89,000	29	510
	12/01/05	< 100	< 5	NA	< 1	19,000	< 10	< 1	< 100	< 3	29,000	620	< 20	< 500	88,000	< 20	440
	09/01/05	< 100	< 5	NA	< 1	16,000	< 10	< 1	140	< 3	25,000	1,000	< 20	< 500 UJ	90,000	< 20	320
	06/01/05	< 100	< 5	NA	< 1	15,000	< 10	< 1	< 100	< 3	22,000	700	< 20	< 500 UJ	80,000	36	340
	03/29/05	< 100	< 5	NA	< 1	17,000	< 10	2.2	< 100	< 3	26,000	600	< 20	< 500	83,000	< 20	410
	12/22/04	NA	NA	0.441	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/17/04	NA	< 5	NA	< 1	NA	< 10	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	380
	08/10/04	NA	< 5	NA	< 1	NA	< 10	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	370
	03/10/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	410
	12/02/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	310
	08/13/03	NA	< 5	NA	< 1	NA	< 10	1.1	NA	< 3	NA	NA	< 20	NA	NA	< 20	280
	06/05/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	380
	03/12/03	NA	< 1	NA	< 1	NA	1.1	< 1	NA	< 3	NA	NA	4.6	NA	NA	< 20	350
	12/04/02	NA	< 1	NA	< 1	NA	1.6	1.1	NA	< 3	NA	NA	4.4	NA	NA	< 20	560
	09/11/02	NA	< 5	NA	< 5	NA	< 10	< 20	NA	< 15	NA	NA	< 50	NA	NA	**260**	NA
600GW107	03/20/06	< 100 UJ	< 5	NA	< 1	110,000	< 10	< 1	12,000	< 3	53,000	2,800	< 20	5,900	56,000	< 20	560
	04/11/05	< 100	7	NA	< 1	120,000	< 10	< 1	9,500	< 3	56,000	2,700	< 20	6,700	62,000	21	670

Table A-16-5
Results of Total and Dissolved Metals Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Aluminum	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [2]		**--**	**10**	**10**	**5**	**--**	**50**	**2.9**	**--**	**5.6**	**--**	**--**	**7.1**	**--**	**--**	**58**	**--**
600GW107	03/10/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	630
	12/03/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	NA
	08/13/03	NA	7.1	NA	< 1	NA	< 10	1.2	NA	< 3	NA	NA	< 20	NA	NA	< 20	570
	06/06/03	NA	< 5	NA	< 1	NA	< 10	2.3	NA	< 3	NA	NA	< 20	NA	NA	< 20	630
	03/11/03	NA	2.4	NA	< 1	NA	1	< 1	NA	< 3	NA	NA	3.8	NA	NA	< 20	640
600GW108	05/23/06	< 100	< 5	NA	< 1	23,000	< 10	< 1	< 100	< 3	25,000	45	< 20	2,200	33,000	< 20	280
	03/07/06	< 100	< 5	NA	< 1	40,000	< 10	**3.1**	160	< 3	41,000	20	< 20	3,800	70,000	< 20	530
DUP0307061B	03/07/06	< 100	< 5	NA	< 1	40,000	< 10	1.5	150	< 3	40,000	15	< 20	3,700	68,000	< 20	480
	11/30/05	< 100	< 5	NA	< 1	35,000	< 10	< 1	190	< 3	38,000	18	< 20	2,700	35,000	< 20	360
DUP1130051A	11/30/05	< 100	< 5	NA	< 1	35,000	< 10	< 1	190	< 3	38,000	18	< 20	2,800	35,000	< 20	360
600GW108CL	11/30/05	< 100 U	< 2 U	NA	< 1 U	40,000	< 10 U	< 2 U	< 100 U	< 1 U	43,000	20	3.2	< 5,000 UN	38,000	< 20 U	419
	09/01/05	< 100	< 5	NA	< 1	27,000	< 10	< 1	230	< 3	37,000	19	< 20	2,800 J	37,000	24	300
	06/01/05	< 100	< 5	NA	< 1	35,000	< 10	< 1	< 100	< 3	35,000	12	< 20	2,500 J	35,000	< 20	380
	03/21/05	< 100	< 5	NA	< 1	50,000	< 10	< 1	140	< 3	43,000	16	< 20	3,200	31,000	< 20	450
DUP0321052B	03/21/05	< 100	< 5	NA	< 1	52,000	< 10	< 1	140	< 3	42,000	17	< 20	3,300	30,000	< 20	460
	12/22/04	NA	NA	0.446	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/17/04	NA	< 5	NA	< 1	NA	< 10	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	300
	08/10/04	NA	< 5	NA	< 1	NA	< 10	< 1	< 100	< 3	NA	NA	< 20	NA	NA	< 20	230
	05/26/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	290
	03/10/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	360
	12/03/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	330
	08/13/03	NA	< 5	NA	< 1	NA	< 10	1.3	NA	< 3	NA	NA	< 20	NA	NA	< 20	250
	06/05/03	NA	< 5	NA	< 1	NA	< 10	1.1	NA	< 3	NA	NA	< 20	NA	NA	< 20	280
	03/12/03	NA	< 1	NA	< 1	NA	< 1	< 1	NA	< 3	NA	NA	4.2	NA	NA	< 20	310
	12/09/02	NA	< 1	NA	< 1	NA	1.2	< 1	NA	< 3	NA	NA	5.4	NA	NA	< 20	360
DUP1209022C	12/09/02	NA	< 1	NA	< 1	NA	< 1	< 1	NA	< 3	NA	NA	4.4	NA	NA	< 20	350
600GW108CL	12/09/02	NA	< 2 U	NA	< 1	NA	< 5	< 5	NA	< 3	NA	NA	< 5	NA	NA	< 10	330
	09/10/02	NA	< 5	NA	< 5	NA	< 10	< 20	NA	< 15	NA	NA	< 50	NA	NA	**140**	NA
600GW109	03/14/06	< 100	< 5	NA	< 1	37,000	< 10	< 1	2,900	< 3	51,000	170	< 20	2,800	46,000	< 20	620
	04/01/05	< 100	< 5	NA	< 1	28,000 J	< 10	2.4	2,800	< 3	49,000	190 J	< 20	2,700	39,000	< 20	450
	03/09/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	430
	12/03/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	350
	08/13/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	480
	06/05/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	440
	03/11/03	NA	< 1	NA	< 1	NA	2.9	< 1	NA	< 3	NA	NA	3.5	NA	NA	< 20	490
	12/04/02	NA	< 1	NA	< 1	NA	1.7	< 1	NA	< 3	NA	NA	2.2	NA	NA	< 20	450
610GW101	05/23/06	< 100	< 5	NA	< 1	59,000	< 10	< 1	4,500	< 3	43,000	390	< 20	6,500	79,000	< 20	590
	03/07/06	< 100	< 5	NA	< 1	48,000	< 10	< 1	4,000	< 3	41,000	320	< 20	5,500	65,000	< 20	590
	12/01/05	< 100	< 5	NA	< 1	58,000	< 10	< 1	4,500	< 3	45,000	380	< 20	5,800	77,000	< 20	620
	08/31/05	< 100 UJ	5.1	3.6 J	< 1	55,000	< 10	< 1	4,300	< 3	39,000	250	< 20	7,000	69,000	< 20	830
DUP0831051A	08/31/05	< 100 UJ	< 5	4.4 J	< 1	58,000	< 10	< 1	4,500	< 3	42,000	260	< 20	7,200	74,000	< 20	550

Table A-16-5
Results of Total and Dissolved Metals Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Aluminum	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [2]		**--**	**10**	**10**	**5**	**--**	**50**	**2.9**	**--**	**5.6**	**--**	**--**	**7.1**	**--**	**--**	**58**	**--**
610GW101	06/02/05	< 100	< 5	3.34	< 1	62,000	< 10	1.9	4,300	< 3	43,000	280	< 20	6,400 J	80,000	< 20	580
	03/21/05	< 100	< 5	1.51	< 1	63,000	< 10	< 1	4,200	< 3	37,000	280	< 20	5,200	70,000	< 20	530
DUP0321052A	03/21/05	< 100	< 5	1.68	< 1	62,000	< 10	< 1	4,000	< 3	37,000	280	< 20	5,100	70,000	< 20	480
	12/21/04	NA	NA	2.60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/21/04	NA	NA	2.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/15/04	NA	< 5	NA	< 1	NA	< 10	< 1	3,100	< 3	NA	240	< 20	NA	NA	< 20	440
DUP1215041A	12/15/04	NA	< 5	NA	< 1	NA	< 10	< 1	3,200	< 3	NA	260	< 20	NA	NA	< 20	2190
610GW101CL	12/15/04	NA	2.1	NA	< 1 U	NA	< 10 U	< 2 U	3,540	< 1 U	NA	256	< 2 U	NA	NA	< 20 U	488
	08/10/04	NA	< 5	NA	< 1	NA	< 10	< 1	4,400	< 3	NA	NA	< 20	NA	NA	< 20	600
	05/26/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	600
	03/10/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	560
DUP0310043A	03/10/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	550
610GW101CL	03/10/04	NA	< 5	NA	< 1	NA	< 10	< 10	NA	< 3	NA	NA	< 10	NA	NA	< 20	540 QB01
	12/02/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	540
	08/14/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20 UJ	540
DUP0814033A	08/14/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20 UJ	500
610GW101CL	08/14/03	NA	7.3	NA	< 1	NA	< 10	< 10	NA	< 3	NA	NA	< 10	NA	NA	< 20	580
	06/04/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	640
DUP0604033B	06/04/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	550
610GW101CL	06/04/03	NA	4.6	NA	< 1	NA	< 5	< 5	NA	< 3	NA	NA	< 5	NA	NA	< 20	520
	03/11/03	NA	1.1	NA	< 1	NA	2.9	< 1	NA	< 3	NA	NA	1.5	NA	NA	< 20	520
	12/03/02	NA	1.4	NA	< 1	NA	1.8 J	< 1	NA	< 3	NA	NA	1.1	NA	NA	< 20	600
610GW102	05/23/06	< 100	< 5	NA	< 1	57,000	< 10	< 1	1,400	< 3	30,000	2,300	< 20	4,300	80,000	< 20	570
	03/07/06	< 100	5.9	NA	< 1	66,000	< 10	< 1	1,800	< 3	36,000	2,800	< 20	4,700	83,000	30	570
	12/01/05	< 100	6.8	NA	< 1	71,000	< 10	< 1	2,400	< 3	36,000	3,600	< 20	4,700	85,000	< 20	590
	08/31/05	< 100 UJ	7.7	7.4 J	< 1	59,000	< 10	< 1	2,300	< 3	30,000	2,800	< 20	4,900	75,000	< 20	520
	06/02/05	< 100	6.5	6.39	< 1	71,000	< 10	< 1	1,700	< 3	34,000	3,300	< 20	5,100 J	79,000	< 20	520
	03/31/05	< 100	6.9	6.52	< 1	86,000 J	< 10	< 1	2,000	< 3	37,000	3,700 J	< 20	5,100	83,000	< 20	590 J-
DUP0331052C	03/31/05	< 100 U	6.5	6.01	< 1	78,200	< 10	< 1	1,800	< 3	67,300	3,500 J	< 20	6,810	70,100	< 20	540 J-
610GW102CL	03/31/05	< 100	**22.1**	NA	< 1 U	79,000 J	< 10 U	< 2 U	27,600	**5.89**	33,000	1,350	< 2 U	4,600	73,000	< 20 U	667
	12/21/04	NA	NA	4.96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/15/04	NA	6.1	NA	< 1	NA	< 10	< 1	2,700	< 3	NA	4,100	< 20	NA	NA	29	630
	08/11/04	NA	7.3	NA	< 1	NA	< 10	< 1	2,000	< 3	NA	NA	< 20	NA	NA	< 20	500
DUP0811041A	08/11/04	NA	7.3	NA	< 1	NA	< 10	< 1	2,100	< 3	NA	NA	< 20	NA	NA	< 20	470
610GW102CL	08/11/04	NA	**< 40**	NA	< 10	NA	< 10	< 10	1,100	**< 50**	NA	NA	< 30	NA	NA	< 30	571
	05/26/04	NA	**11**	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	500
	03/09/04	NA	6.9	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	570
	12/02/03	NA	9.9	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	430
	08/18/03	NA	**13**	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20 UJ	340
	06/05/03	NA	**11**	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	500

Table A-16-5
Results of Total and Dissolved Metals Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Aluminum	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [2]		**--**	**10**	**10**	**5**	**--**	**50**	**2.9**	**--**	**5.6**	**--**	**--**	**7.1**	**--**	**--**	**58**	**--**
610GW102	03/11/03	NA	8.6	NA	< 1	NA	2.7	1	NA	< 3	NA	NA	6.1	NA	NA	< 20	580
DUP0311033A	03/11/03	NA	8.9	NA	< 1	NA	1.1	< 1	NA	< 3	NA	NA	5.8	NA	NA	< 20	530
	12/03/02	NA	**11**	NA	< 1	NA	2.8 J	< 1	NA	< 3	NA	NA	5.2	NA	NA	< 20	390
610GW103	05/23/06	< 100	5.9	NA	< 1	63,000	< 10	< 1	3,500	< 3	41,000	2,400	< 20	6,900	76,000	< 20	520
DUP0523061A	05/23/06	< 100	6.3	NA	< 1	65,000	< 10	< 1	3,400	< 3	42,000	2,500	< 20	7,100	77,000	< 20	490
	03/07/06	< 100	5.4	NA	< 1	66,000	< 10	1.5	580	< 3	46,000	810	< 20	8,500	89,000	< 20	720
DUP0307061A	03/07/06	< 100	5.7	NA	< 1	66,000	< 10	1.3	670	< 3	45,000	870	< 20	8,400	99,000	< 20	660
610GW103CL	03/07/06	< 100 U	4.7	NA	< 1 U	77,000	< 10 U	2.2	410	< 1 U	52,000	960	**8.3**	9,000	100,000	< 20 U	698 J+
	12/01/05	< 100	9.1	NA	< 1	82,000	< 10	< 1	3,400	< 3	52,000	3,800	< 20	7,600	130,000	< 20	760
	09/01/05	< 100	8.4	7.41 J	< 1	62,000	< 10	< 1	3,600	< 3	43,000	4,000	< 20	6,600 J	110,000	< 20	520
DUP0901051A	09/01/05	< 100	8.9	8 J	< 1	73,000	< 10	< 1	4,000	< 60	49,000	4,500	< 20	6,900 J	100,000	< 20	530
	06/02/05	< 100	10	9.43	< 1	84,000	< 10	< 1	3,900	< 3	51,000	2,900	< 20	8,000 J	120,000	< 20	670
	03/22/05	< 100	5.2	4.60	< 1	64,000	< 10	1.9	650	< 3	46,000	790	< 20	9,400	130,000	< 20	770
	12/21/04	NA	NA	**10.00**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/16/04	NA	5.1	NA	< 1	NA	< 10	< 1	240	< 3	NA	3,000	< 20	NA	NA	< 20	880
	08/10/04	NA	9.8	NA	< 1	NA	< 10	< 1	3,000	< 3	NA	NA	< 20	NA	NA	< 20	620
	05/26/04	NA	**12**	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	640
	03/09/04	NA	7.8	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	21	640
	12/03/03	NA	7.5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	580
DUP1203033A	12/03/03	NA	7.2	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	600
610GW103CL	12/03/03	NA	**13**	NA	< 1	NA	< 10	< 10	NA	< 3	NA	NA	< 10	NA	NA	< 20	560
	08/18/03	NA	7.4	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20 UJ	570
DUP0818033A	08/18/03	NA	7.1	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20 UJ	530
	06/05/03	NA	7.3	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	560
	03/11/03	NA	6.3	NA	< 1	NA	2.2	< 1	NA	< 3	NA	NA	**7.7**	NA	NA	< 20	690
	12/03/02	NA	4.7	NA	< 1	NA	3.3 J	< 1	NA	< 3	NA	NA	1.9	NA	NA	< 20	2,880
DUP1203022A	12/03/02	NA	4.6	NA	< 1	NA	3.1 J	< 1	NA	< 3	NA	NA	2	NA	NA	< 20	3,080
610SP01	03/21/06	< 100 UJ	< 5	NA	< 1	52,000	< 10	< 1	780	< 3	40,000	1,600	< 20	11,000	140,000	< 20	880 b J-
(Total)	03/21/06	170 J	< 5	NA	< 1	52,000	< 10	< 1	1,800	< 3	40,000	1,600	< 20	11,000	140,000	< 20	NA
	09/01/05	< 100	10	7.4 J	< 1	240,000	< 10	2.1	9,500	< 3	360,000	2,400	< 20	110,000 J	4,100,000	37	12,700
(Total)	09/01/05	16,000	19	NA	< 1	230,000	120	28	37,000	100	360,000	2,800	230	98,000	3,500,000	150	NA
	06/01/05	< 100	8.7	7.6	< 1	64,000	< 10	< 1	280	< 3	74,000	350	< 20	37,000 J	250,000	< 20	1,220
(Total)	06/01/05	7,800	13	NA	< 1	67,000	38	12	17,000	41	77,000	550	63	36,000	230,000	58	NA
	12/21/04	NA	NA	5.72	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Total)	12/21/04	NA	NA	**11.10**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/17/04	NA	8	NA	< 1	NA	< 10	< 1	210	< 3	NA	540	< 20	NA	NA	< 20	4,240
(Total)	12/17/04	NA	34	NA	< 1	NA	180	44	59,000	70	NA	1,100	270	NA	NA	130 J+	NA
	08/13/04	NA	**15**	NA	< 1	NA	< 10	< 1 U	1,000	< 3	NA	NA	< 20	NA	NA	< 20	9,260
(Total)	08/13/04	NA	17	NA	< 1	NA	110	36	41,000	45	NA	NA	130	NA	NA	74	NA

Table A-16-5
Results of Total and Dissolved Metals Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Aluminum	Arsenic	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6010/ SW6020	SW6010/ SW6020	1632M	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [2]		**--**	**10**	**10**	**5**	**--**	**50**	**2.9**	**--**	**5.6**	**--**	**--**	**7.1**	**--**	**--**	**58**	**--**
610SP01	05/28/04	NA	8.6	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	890
(Total)	03/16/04	NA	11	NA	< 1	NA	11	1.3	NA	24	NA	NA	37	NA	NA	76	800
	12/09/03	NA	6.6	NA	< 1	NA	21	2.4	NA	15	NA	NA	65	NA	NA	110 J+	6,850
DUP1209031A (Total)	12/09/03	NA	< 5	NA	< 1	NA	23	< 1	NA	9.7	NA	NA	81	NA	NA	110 J+	2,660
610SP01CL (Total)	12/09/03	NA	220	NA	5.5	NA	1,000	320	NA	300	NA	NA	1,400	NA	NA	920	2,800 QB-01
(Total)	08/21/03	NA	23	NA	1.2	NA	87	18	NA	190	NA	NA	330	NA	NA	300	2,580
	06/11/03	NA	**16**	NA	< 1	NA	< 10	1.1	NA	< 3	NA	NA	< 20	NA	NA	< 20	8,860
	03/20/03	NA	9.9	NA	< 1	NA	1.2	< 1	NA	< 3	NA	NA	3.6	NA	NA	< 10	4,480
	12/11/02	NA	**19**	NA	< 1	NA	3.2	1.4	NA	< 3	NA	NA	3.3	NA	NA	< 20	12,200
610SP02	03/21/06	< 100 UJ	< 5	NA	< 1	67,000	< 10	1.4	370	< 3	47,000	860	< 20	9,400	140,000	< 20	680
(Total)	03/21/06	1,900 J	< 5	NA	< 1	72,000	< 10	22	6,700	< 3	49,000	1,000	< 20	10,000	140,000	26	NA
	09/01/05	< 100	5.4	3.6 J	< 1	110,000	< 10	< 1	1,600	< 3	100,000	2,900	< 20	22,000 J	540,000	< 20	1,880
(Total)	09/01/05	3,000	7.4	NA	< 1	120,000	14	5.0	7,500	9.9	110,000	3,300	21	23,000	590,000	28	NA
	06/01/05	< 100	6.9	6.82	< 1	83,000	< 10	< 1	230	< 3	55,000	1,100	< 20	11,000 J	170,000	< 20	810
(Total)	06/01/05	6,500	9.8	NA	< 1	93,000	29	9.1	15,000	20	58,000	1,400	34	11,000	160,000	49	NA
	12/21/04	NA	NA	7.47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(Total)	12/21/04	NA	NA	10.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/17/04	NA	5.9	NA	< 1	NA	< 10	< 1	210	< 3	NA	2,100	< 20	NA	NA	< 20	1,550
(Total)	12/17/04	NA	20	NA	< 1	NA	48	14	26,000	25	NA	2,500	56	NA	NA	72 J+	NA
	08/13/04	NA	< 5	NA	< 1	NA	< 10	< 1 U	15,000	< 3	NA	NA	< 20	NA	NA	< 20	23,700
(Total)	08/13/04	NA	< 5	NA	< 1	NA	74	29	50,000	19	NA	NA	77	NA	NA	26	NA
	05/28/04	NA	< 5	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	970
(Total)	03/16/04	NA	5.4	NA	< 1	NA	23	1.4	NA	8.8	NA	NA	48	NA	NA	85	1,400
(Total)	12/09/03	NA	< 5	NA	< 1	NA	12	2.3	NA	16	NA	NA	25	NA	NA	74 J+	5,720
(Total)	08/21/03	NA	< 5	NA	< 1	NA	< 10	< 1	NA	6.4	NA	NA	< 20	NA	NA	< 20	11,900
	06/11/03	NA	9	NA	< 1	NA	< 10	< 1	NA	< 3	NA	NA	< 20	NA	NA	< 20	4,070
	03/20/03	NA	**11**	NA	< 1	NA	1.2	1.1	NA	< 3	NA	NA	3.9	NA	NA	< 10	5,730
	12/11/02	NA	**11**	NA	< 1	NA	3	1.3	NA	< 3	NA	NA	3.3	NA	NA	< 20	8,240

Notes

1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001. The analytical methods used during previous quarters are identified in their respective quarterly report.

2 - Groundwater cleanup levels were taken from the *Revised Final Corrective Action Plan for the Commissary/Post Exchange Study Area, Presidio of San Francisco, California* (Treadwell & Rollo, 2006).

All metal results represent dissolved metals, unless indicated as "total" in the left-hand column, for total metal results.

Concentrations in **BOLD** indicate dissolved metals concentrations which exceed applicable cleanup levels. CAP cleanup levels apply only to dissolved concentrations.

-- cleanup level not established

µg/L - micrograms per liter

mg/L - milligrams per liter

NA - Not analyzed

CL suffix denotes a quality control duplicate sample was sent to the control laboratory.

Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.

Table 11 in the main report identifies current and historical data qualifiers.

Table A-16-6
Results of Dissolved Gas and TOC Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		mg/L	mg/L	mg/L	mg/L
600GW101	12/01/05	< 0.005	< 0.005	14 J-	23
	09/01/05	< 0.005	< 0.005	11 J-	12
	06/01/05	< 0.005	< 0.005	10	5.6 J+
DUP0601053A	06/01/05	< 0.005	< 0.005	10	9.6 J+
	03/21/05	< 0.005	< 0.005	10	11
	12/16/04	< 0.005	< 0.005	15	NA
600GW102	04/06/05	< 0.005	< 0.005	4.6	8.8
600GW104	04/11/05	< 0.005	< 0.005	0.052	3.9
600GW105	12/01/05	< 0.005	< 0.005	0.46	6.1
	09/01/05	< 0.005	< 0.005	0.69	6
	06/01/05	< 0.005	< 0.005	0.85	5.9
	03/22/05	< 0.005	< 0.005	0.75	4.6
	12/16/04	< 0.005	< 0.005	0.49	NA
600GW106	12/01/05	< 0.005	< 0.005	0.1	2.3
	09/01/05	< 0.005	< 0.005	0.061	2.1
	06/01/05	< 0.005	< 0.005	0.008	2.1
	03/29/05	< 0.005	< 0.005	0.29	2.4
600GW108	11/30/05	< 0.005	< 0.005	0.09	1.4
DUP1130051A	11/30/05	< 0.005	< 0.005	0.095	1.2
600GW108CL	11/30/05	< 0.0005 UU	< 0.0015 UU	0.045	1.6
	09/01/05	< 0.005	< 0.005	0.093	1.3
	06/01/05	< 0.005	< 0.005	< 0.005	< 0.5
	03/21/05	< 0.005	< 0.005	< 0.005	2.2
DUP0321052B	03/21/05	< 0.005	< 0.005	< 0.005	2.3
	12/17/04	< 0.005	< 0.005	< 0.005	NA
600GW109	04/01/05	< 0.005	< 0.005	0.47	2.1
610GW101	12/01/05	< 0.005	< 0.005	11 J-	4.7
	08/31/05	< 0.005	< 0.005	10	3.5
DUP0831051A	08/31/05	< 0.005	< 0.005	10	3
	06/02/05	< 0.005	< 0.005	9.5	3.4 J+
	03/21/05	< 0.005	< 0.005	7.3	3.8
	12/15/04	< 0.005	< 0.005	8.4	3.5
DUP1215041A	12/15/04	< 0.005	< 0.005	9	3.4
610GW101CL	12/15/04	0.00071	< 0.0015 U	5.9	3.8
610GW102	12/01/05	< 0.005	< 0.005	12 J-	3.8
	08/31/05	< 0.005	< 0.005	11	4.7
	06/02/05	< 0.005	< 0.005	7.9	4.9 J+
	03/31/05	< 0.005	< 0.005	3.8	5.3
DUP0331052C	03/31/05	< 0.005	< 0.0015 U	2.5	1.3
	12/15/04	< 0.005	< 0.005	14	6.2

Table A-16-6
Results of Dissolved Gas and TOC Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Ethane	Ethene	Methane	TOC
	Analytical Method[1]	RSK 175	RSK 175	RSK 175	SW9060
		mg/L	mg/L	mg/L	mg/L
610GW103	12/01/05	< 0.005	< 0.005	1.8	4.8
	09/01/05	< 0.005	< 0.005	5.6 J-	4.5
DUP0901051A	09/01/05	< 0.005	< 0.005	5.5 J-	4.2
	06/02/05	< 0.005	< 0.005	3.3	5 J+
	03/22/05	< 0.005	< 0.005	0.097	5.6
	12/16/04	< 0.005	< 0.005	2.2	4.9
610SP01	09/01/05	< 0.005	< 0.005	0.37	4.7
	06/01/05	< 0.005	< 0.005	0.23	5.7 J+
	12/17/04	< 0.005	< 0.005	0.29	4
610SP02	09/01/05	< 0.005	< 0.005	1.9	4.2
	06/01/05	< 0.005	< 0.005	0.57	5.2 J+
	12/17/04	< 0.005	< 0.005	0.67	4

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Fourth Quarter 2004.
mg/L - milligrams per liter
NA - Not analyzed
TOC - Total Organic Carbon
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Table 11 in the main report identifies current and historical data qualifiers.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.

Table A-16-7
Results of Arsenic Speciation Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Inorganic Arsenic (As)	Arsenite (As III)	Arsenate (As V) [2]	Percentage of As III	Percentage of As V
	Analytical Method[1]	**1632M**	**1632M**	**1632M**	--	--
		(µg/L)	(µg/L)	(µg/L)	%	%
Cleanup Levels [3]		**10**	--	--	--	--
600GW101	09/01/05	1.3 J	0.8 J	0.5 J	62	38
	06/01/05	2.12	1.72	0.4 B	81	19
DUP0601053A	06/01/05	2.34	1.74	0.6	74	26
	03/21/05	3.16	3.66	< 0.025 U	>99	<1
	12/22/04	2.46	2.29	0.17	93	7
600GW102	04/06/05	1.14	0.162	0.978	14	86
600GW103	04/11/05	3.21	2.19	1.02	68	32
600GW104	04/11/05	2.18	0.791	1.39	36	64
600GW105	09/01/05	NA	NA	NA	NA	NA
	03/22/05	NA	NA	NA	NA	NA
	12/22/04	0.931	0.591	0.34	63	37
600GW106	09/01/05	NA	NA	NA	NA	NA
	03/29/05	NA	NA	NA	NA	NA
	12/22/04	0.441	< 0.03 U	0.41	7	93
600GW107	04/11/05	NA	NA	NA	NA	NA
600GW108	09/01/05	NA	NA	NA	NA	NA
	03/21/05	NA	NA	NA	NA	NA
	12/22/04	0.446	< 0.03 B U	0.446	6	94
600GW109	04/01/05	NA	NA	NA	NA	NA
610GW101	08/31/05	3.6 J	3.8 J	< 1 JU	>99	<1
DUP0831051A	08/31/05	4.4 J	4.2 J	< 1 JU	>99	<1
	06/02/05	3.34	2.76	0.58	83	17
	03/21/05	1.51	1.21	0.302	80	20
DUP0321052A	03/21/05	1.68	1.67	< 0.025 U	99	1
	12/21/04	2.60	1.86	0.739	72	28
DUP1221043A	12/21/04	2.46	2.03	0.43	83	17
610GW102	08/31/05	7.4 J	8.3 J J-	< 1 JU	>99	<1
	06/02/05	6.39	5.95	0.44 B	93	7
	03/31/05	6.52	4.14	2.38	63	37
DUP0331052C	03/31/05	6.01	5.04	0.973	99	1
	12/21/04	4.96	3.82	1.14	77	23
610GW103	09/01/05	7.41 J	6.85 J	0.56 J	92	8
DUP0901051A	09/01/05	8 J	7.72 J	0.28 BJ	97	3
	06/02/05	9.43	8.57	0.86	91	9
	03/22/05	4.60	2.12	2.48	46	54
	12/21/04	10.00	8.26	1.75	83	17
610SP01	09/01/05	7.4 J	6.15 J	1.25 J	82	17
	06/01/05	7.6	6.28	1.32	83	17
	12/21/04	5.72	5.38	0.338	94	6
(Total)	12/21/04	11.10	10.5	0.559	95	5

Table A-16-7
Results of Arsenic Speciation Analyses
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Sample Date	Inorganic Arsenic (As)	Arsenite (As III)	Arsenate (As V) [2]	Percentage of As III	Percentage of As V
	Analytical Method[1]	**1632M**	**1632M**	**1632M**	--	--
		(µg/L)	(µg/L)	(µg/L)	%	%
610SP02	09/01/05	3.6 J	3.7 J J-	< 0.5 JU	>99	<1
	06/01/05	6.82	5.37	1.45	79	21
	12/21/04	7.47	7.63	< 0.007	>99	<1
(Total)	12/21/04	10.20	8.02	2.16	79	21

Notes

1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001.

2 - The concentration of As V was determined by the laboratory by subtracting the As III concentration from the inorganic As concentration. As III has been detected at greater concentrations than inorganic As, due to analytical variability. As V is reported as non-detect when As III is detected at a greater concentration than inorganic As.

3 - Groundwater cleanup levels were taken from the *Revised Final Corrective Action Plan for the Commissary/Post Exchange Study Area, Presidio of San Francisco, California* (Treadwell & Rollo, 2006), which is currently under review by the stakeholders.

µg/L - micrograms per liter
mV - millivolts
NA - Not analyzed

All Third Quarter 2005 arsenic speciation results were qualified as estimated (J) by the laboratory because the samples were received at a temperature slightly higher the require 4 degrees Celsius. Additionally, Third Quarter 2005 As III results from 610GW102 and 610SP02 were qualified with a J- by DataVal because the continuing calibration verification percent difference failed QC limits, which indicates the sample result is biased low. Several other Third Quarter 2005 results were qualified by DataVal with either a (U) or (J) in addition to the (J) qualifier applied by the laboratory. These qualifiers are defined in Table 11 of the main text.

Concentrations in **BOLD** indicate an exceedance of applicable cleanup levels.
CL suffix denotes a quality control duplicate sample was sent to the control laboratory.
Analytical results represent dissolved arsenic, unless indicated as "total" in the left-hand column, for total arsenic results.
Table 7 in the main report identifies all duplicate and split samples and the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-16-8
Groundwater Elevation Summary
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
600GW101	05/22/06	4.09	10.66	6.57	MW
	03/06/06	3.25	10.66	7.41	MW
	11/28/05	4.00	10.66	6.66	MW
	08/29/05	4.54	10.66	6.12	MW
	05/23/05	3.52	10.66	7.14	MW
	03/14/05	3.94	10.66	6.72	MW
	12/13/04	3.73	10.66	6.93	MW
	08/09/04	4.65	10.66	6.01	MW
	05/24/04	4.43	10.66	6.23	MW
	03/08/04	4.04	10.66	6.62	MW
	12/01/03	4.38	10.66	6.28	MW
	08/11/03	4.52	10.66	6.14	MW
	06/02/03	4.51	10.66	6.15	MW
	03/10/03	3.21	10.66	7.45	MW
	12/02/02	4.62	10.66	6.04	MW
600GW102	05/22/06	3.71	10.10	6.39	MW
	03/06/06	3.14	10.10	6.96	MW
	11/28/05	3.73	10.10	6.37	MW
	08/29/05	4.18	10.10	5.92	MW
	05/23/05	2.90	10.10	7.20	MW
	03/14/05	3.67	10.10	6.43	MW
	12/13/04	3.64	10.10	6.46	MW
	08/09/04	4.35	10.10	5.75	MW
	05/24/04	3.39	10.10	6.71	MW
	03/08/04	3.88	10.10	6.22	MW
	12/01/03	4.12	10.10	5.98	MW
	08/11/03	4.12	10.10	5.98	MW
	06/02/03	4.21	10.10	5.89	MW
	03/10/03	2.75	10.10	7.35	MW
	12/02/02	4.21	10.10	5.89	MW
600GW103	05/22/06	3.23	10.31	7.08	MW
	03/06/06	2.46	10.31	7.85	MW
	11/28/05	3.17	10.31	7.14	MW
	08/29/05	2.81	10.31	7.50	MW
	05/23/05	2.50	10.31	7.81	MW
	03/14/05	2.95	10.31	7.36	MW
	12/13/04	2.96	10.31	7.35	MW
	08/09/04	2.94	10.31	7.37	MW
	05/24/04	2.90	10.31	7.41	MW
	03/08/04	3.03	10.31	7.28	MW
	12/01/03	3.41	10.31	6.90	MW
	08/11/03	2.86	10.31	7.45	MW
	06/02/03	2.95	10.31	7.36	MW
	03/10/03	2.79	10.31	7.52	MW
	12/02/02	3.37	10.31	6.94	MW
600GW104	05/22/06	3.58	10.48	6.90	MW
	03/06/06	2.24	10.48	8.24	MW
	11/28/05	3.45	10.48	7.03	MW
	08/29/05	3.72	10.48	6.76	MW
	05/23/05	2.93	10.48	7.55	MW
	03/14/05	3.25	10.48	7.23	MW
	12/13/04	3.00	10.48	7.48	MW
	08/09/04	3.35	10.48	7.13	MW

Table A-16-8
Groundwater Elevation Summary
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
600GW104	05/24/04	3.94	10.48	6.54	MW
	03/08/04	3.20	10.48	7.28	MW
	12/01/03	3.51	10.48	6.97	MW
	08/11/03	3.08	10.48	7.40	MW
	06/02/03	2.98	10.48	7.50	MW
	03/10/03	2.95	10.48	7.53	MW
	12/02/02	3.58	10.48	6.90	MW
600GW105	05/22/06	3.17	17.64	14.47	MW
	03/06/06	3.48	17.64	14.16	MW
	11/28/05	3.91	17.64	13.73	MW
	08/29/05	3.45	17.64	14.19	MW
	05/23/05	3.20	17.64	14.44	MW
	03/14/05	3.15	17.64	14.49	MW
	12/13/04	4.24	17.64	13.40	MW
	08/09/04	4.15	17.64	13.49	MW
	05/24/04	4.29	17.64	13.35	MW
	03/08/04	3.47	17.64	14.17	MW
	12/01/03	4.83	17.64	12.81	MW
	08/11/03	4.87	17.64	12.77	MW
	06/02/03	5.55	17.64	12.09	MW
	03/10/03	3.30	17.64	14.34	MW
	12/02/02	4.60	17.64	13.04	MW
600GW106	05/22/06	4.15	16.04	11.89	MW
	03/06/06	3.34	16.04	12.70	MW
	11/28/05	3.70	16.04	12.34	MW
	08/29/05	3.58	16.04	12.46	MW
	05/23/05	3.35	16.04	12.69	MW
	03/14/05	3.45	16.04	12.59	MW
	12/13/04	4.37	16.04	11.67	MW
	08/09/04	3.88	16.04	12.16	MW
	05/24/04	4.00	16.04	12.04	MW
	03/08/04	3.45	16.04	12.59	MW
	12/01/03	4.51	16.04	11.53	MW
	08/11/03	4.41	16.04	11.63	MW
	06/02/03	4.51	16.04	11.53	MW
	03/10/03	3.22	16.04	12.82	MW
	12/02/02	4.50	16.04	11.54	MW
600GW107	05/22/06	3.59	16.76	13.17	MW
	03/06/06	3.29	16.76	13.47	MW
	11/28/05	4.72	16.76	12.04	MW
	08/29/05	4.47	16.76	12.29	MW
	05/23/05	3.80	16.76	12.96	MW
	03/14/05	3.62	16.76	13.14	MW
	12/13/04	4.58	16.76	12.18	MW
	08/09/04	5.19	16.76	11.57	MW
	05/24/04	4.72	16.76	12.04	MW
	03/08/04	4.94	16.76	11.82	MW
	12/01/03	5.23	16.76	11.53	MW
	08/11/03	4.98	16.76	11.78	MW
	06/02/03	4.48	16.76	12.28	MW
	03/10/03	4.08	16.76	12.68	MW
	12/02/02	4.82	16.76	11.94	MW

Table A-16-8
Groundwater Elevation Summary
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
600GW108	05/22/06	4.88	12.29	7.41	MW
	03/06/06	3.46	12.29	8.83	MW
	11/28/05	5.11	12.29	7.18	MW
	08/29/05	5.20	12.29	7.09	MW
	05/23/05	3.98	12.29	8.31	MW
	03/14/05	3.90	12.29	8.39	MW
	12/13/04	4.20	12.29	8.09	MW
	08/09/04	4.79	12.29	7.50	MW
	05/24/04	4.72	12.29	7.57	MW
	03/08/04	4.41	12.29	7.88	MW
	12/01/03	4.12	12.29	8.17	MW
	08/11/03	4.72	12.29	7.57	MW
	06/02/03	4.39	12.29	7.90	MW
	03/10/03	3.82	12.29	8.47	MW
	12/02/02	4.23	12.29	8.06	MW
600GW109	05/22/06	3.96	11.67	7.71	MW
	03/06/06	3.40	11.67	8.27	MW
	11/28/05	4.30	11.67	7.37	MW
	08/29/05	4.44	11.67	7.23	MW
	05/23/05	3.70	11.67	7.97	MW
	03/14/05	3.54	11.67	8.13	MW
	12/13/04	4.05	11.67	7.62	MW
	08/09/04	4.71	11.67	6.96	MW
	05/24/04	4.46	11.67	7.21	MW
	03/08/04	3.90	11.67	7.77	MW
	12/01/03	4.87	11.67	6.80	MW
	08/11/03	4.65	11.67	7.02	MW
	06/02/03	4.31	11.67	7.36	MW
	03/10/03	3.85	11.67	7.82	MW
	12/02/02	4.52	11.67	7.15	MW
610GW101	05/22/06	2.97	9.91	6.94	MW
	03/06/06	1.95	9.91	7.96	MW
	11/28/05	3.07	9.91	6.84	MW
	08/29/05	3.54	9.91	6.37	MW
	05/23/05	2.61	9.91	7.30	MW
	03/14/05	2.90	9.91	7.01	MW
	12/13/04	2.93	9.91	6.98	MW
	08/09/04	5.21	9.91	4.70	MW
	05/24/04	3.40	9.91	6.51	MW
	03/08/04	3.17	9.91	6.74	MW
	12/01/03	3.28	9.91	6.63	MW
	08/11/03	3.49	9.91	6.42	MW
	06/02/03	3.55	9.91	6.36	MW
	03/10/03	2.39	9.91	7.52	MW
	12/02/02	3.44	9.91	6.47	MW
	08/26/02	3.68	9.91	6.23	MW
	05/28/02	3.59	9.91	6.32	MW
	05/28/02	3.63	9.91	6.28	MW
	03/04/02	3.85	9.91	6.06	MW
	03/04/02	3.32	9.91	6.59	MW
	11/26/01	3.25	9.91	6.66	MW
	11/26/01	3.25	9.91	6.66	MW
	08/27/01	3.60	9.91	6.31	MW
	08/27/01	3.64	9.91	6.27	MW

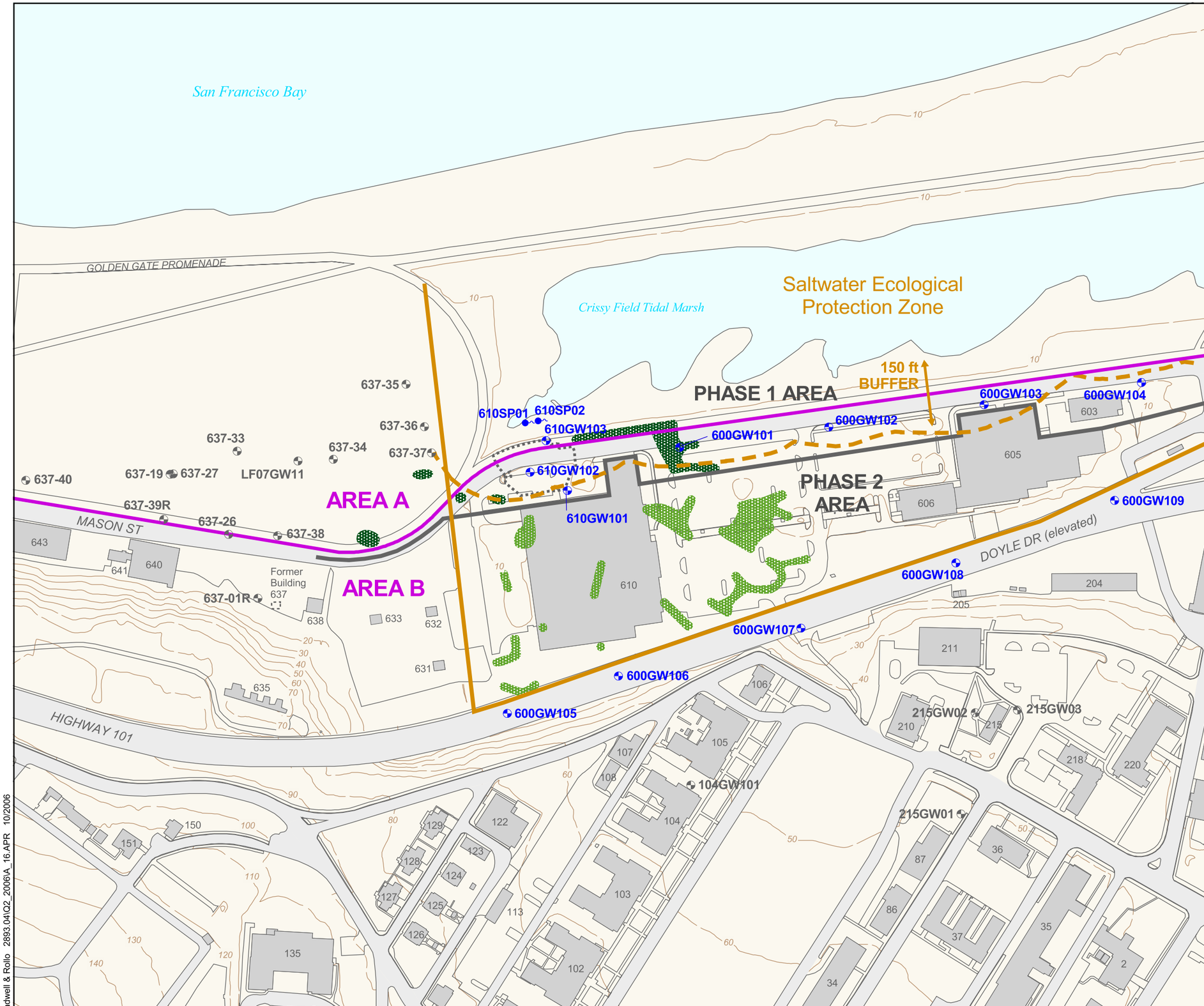
Table A-16-8
Groundwater Elevation Summary
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
610GW102	05/22/06	3.38	10.29	6.91	MW
	03/06/06	2.44	10.29	7.85	MW
	11/28/05	3.50	10.29	6.79	MW
	08/29/05	4.00	10.29	6.29	MW
	05/23/05	3.00	10.29	7.29	MW
	03/14/05	3.30	10.29	6.99	MW
	12/13/04	3.42	10.29	6.87	MW
	08/09/04	4.13	10.29	6.16	MW
	05/24/04	3.86	10.29	6.43	MW
	03/08/04	3.69	10.29	6.60	MW
	12/01/03	3.82	10.29	6.47	MW
	08/11/03	3.92	10.29	6.37	MW
	06/02/03	4.10	10.29	6.19	MW
	03/10/03	2.75	10.29	7.54	MW
	12/02/02	3.94	10.29	6.35	MW
	08/26/02	4.16	10.29	6.13	MW
	05/28/02	4.08	10.29	6.21	MW
	05/28/02	4.12	10.29	6.17	MW
	03/04/02	5.02	10.29	5.27	MW
	03/04/02	3.83	10.29	6.46	MW
	11/26/01	3.72	10.29	6.57	MW
	11/26/01	3.74	10.29	6.55	MW
	08/27/01	4.11	10.29	6.18	MW
	08/27/01	4.13	10.29	6.16	MW
610GW103	05/22/06	4.46	11.13	6.67	MW
	03/06/06	3.51	11.13	7.62	MW
	11/28/05	4.27	11.13	6.86	MW
	08/29/05	5.13	11.13	6.00	MW
	05/23/05	4.00	11.13	7.13	MW
	03/14/05	4.30	11.13	6.83	MW
	12/13/04	4.45	11.13	6.68	MW
	08/09/04	3.65	11.13	7.48	MW
	05/24/04	4.85	11.13	6.28	MW
	03/08/04	4.78	11.13	6.35	MW
	12/01/03	4.67	11.13	6.46	MW
	08/11/03	4.88	11.13	6.25	MW
	06/02/03	4.19	11.13	6.94	MW
	03/10/03	3.20	11.13	7.93	MW
	12/02/02	4.79	11.13	6.34	MW
	08/26/02	5.26	11.13	5.87	MW
	05/28/02	5.13	11.13	6.00	MW
	05/28/02	5.11	11.13	6.02	MW
	03/04/02	3.37	11.13	7.76	MW
	03/04/02	4.94	11.13	6.19	MW
	11/26/01	4.83	11.13	6.30	MW
	11/26/01	4.85	11.13	6.28	MW
	08/27/01	5.29	11.13	5.84	MW
	08/27/01	5.33	11.13	5.80	MW

Table A-16-8
Groundwater Elevation Summary
Commissary/PX Area
Presidio of San Francisco, California

Location ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Groundwater Elevation (feet PLLW)	Well Type
610SP01	05/22/06	Not Flowing	--	NM	Surface
	03/06/06	Submerged[2]	--	--	Surface
	11/28/05	Submerged[2]	--	--	Surface
	08/29/05	Flowing	--	--	Surface
	05/23/05	Not flowing	--	--	Surface
	03/14/05	Not flowing	--	--	Surface
	12/13/04	Not flowing	--	--	Surface
	08/09/04	Not flowing	--	--	Surface
	05/24/04	Not flowing	--	--	Surface
	03/08/04	Not flowing	--	--	Surface
	12/01/03	Not flowing	--	--	Surface
	08/11/03	Not flowing	--	--	Surface
	06/02/03	Not flowing	--	--	Surface
610SP02	05/22/06	Not Flowing	--	NM	Surface
	03/06/06	Submerged[2]	--	--	Surface
	11/28/05	Submerged[2]	--	--	Surface
	08/29/05	Flowing	--	--	Surface
	05/23/05	Not flowing	--	--	Surface
	03/14/05	Not flowing	--	--	Surface
	12/13/04	Not flowing	--	--	Surface
	08/09/04	Not flowing	--	--	Surface
	05/24/04	Not flowing	--	--	Surface
	03/08/04	Not flowing	--	--	Surface
	12/01/03	Not flowing	--	--	Surface
	08/11/03	Not flowing	--	--	Surface
	06/02/03	Not flowing	--	--	Surface

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
2 - Seep sampling location was submerged under standing water.
MW- Monitoring well
feet PLLW - feet above Presidio lower low water vertical datum
-- Groundwater level measurements were not collected on a tidal schedule beginning with Fourth Quarter 2003.



N

225 0 225 Feet

LEGEND

- 610GW101 — A1 Zone Groundwater Monitoring Well
- 610SP01 — Surface Water Seep Location
- 637-34 — Adjacent Study Area Well
- Commissary Seeps Interim Source Removal Excavation
- Saltwater Ecological Protection Zone Boundary (RWQCB, 2003). (Areas north and east of boundary lie within zone)
- Approximate 150 ft Buffer Zone
- Area A / Area B Boundary
- Effective Phase 1 Area/ Phase 2 Area Boundary
- Topographic Contour (Contour Interval : 10 ft)
- Approximate Extent of Phase 1 Impacted Soil
- Approximate Extent of Phase 2 Impacted Soil
- 610 — Building and Number

Notes:
The excavation boundary is defined in the Commissary Seeps Interim Removal Action Report (Treadwell & Rollo, 2002a).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datum: (topography) North American Vertical Datum, NAVD88

COMMISSARY/PX AREA SITE PLAN AND PHASE 1 AND 2 CORRECTIVE ACTION AREAS

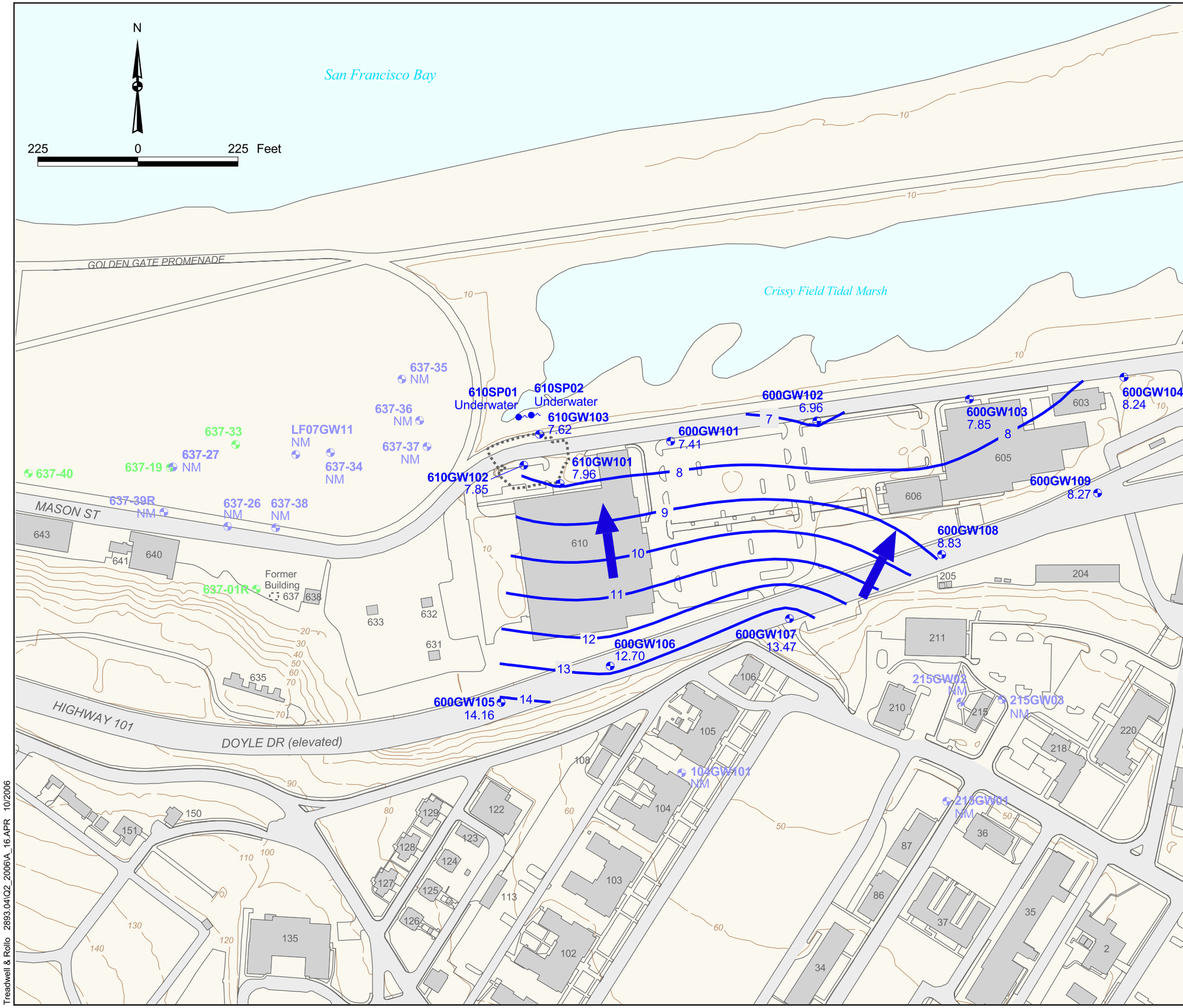
Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315
October 2006

FIGURE A-16-1

Treadwell & Rollo 2893.04\Q2_2006\A_16.APR 10/2006



LEGEND

610GW101 7.96	A1 Groundwater Monitoring Well March 2006 Groundwater Elevation
637-35	Adjacent Study Area A1 Zone Groundwater Monitoring Well
NM	Not Measured. Well approved for removal from the groundwater monitoring program.
637-19	Adjacent Study Area A2 Zone Groundwater Monitoring Well
610SP01	Surface Water Seep Location
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval : 1 ft)
	Commissary Seeps Interim Source Removal Excavation
	Topographic Contour (Contour Interval : 10 ft)
610	Building and Number

Notes:
Groundwater elevation data collected on 6 March 2006.

Seeps 610SP01 and 610SP02 were underwater at the time of the elevation survey due to the formation of sand bars at the entrance of the tidal marsh.

The excavation boundary is defined in the Commissary Seeps Interim Removal Action Report (Treadwell & Rollo, 2002a).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

COMMISSARY/PX AREA
6 MARCH 2006
GROUNDWATER ELEVATION MAP
A1 ZONE WELLS

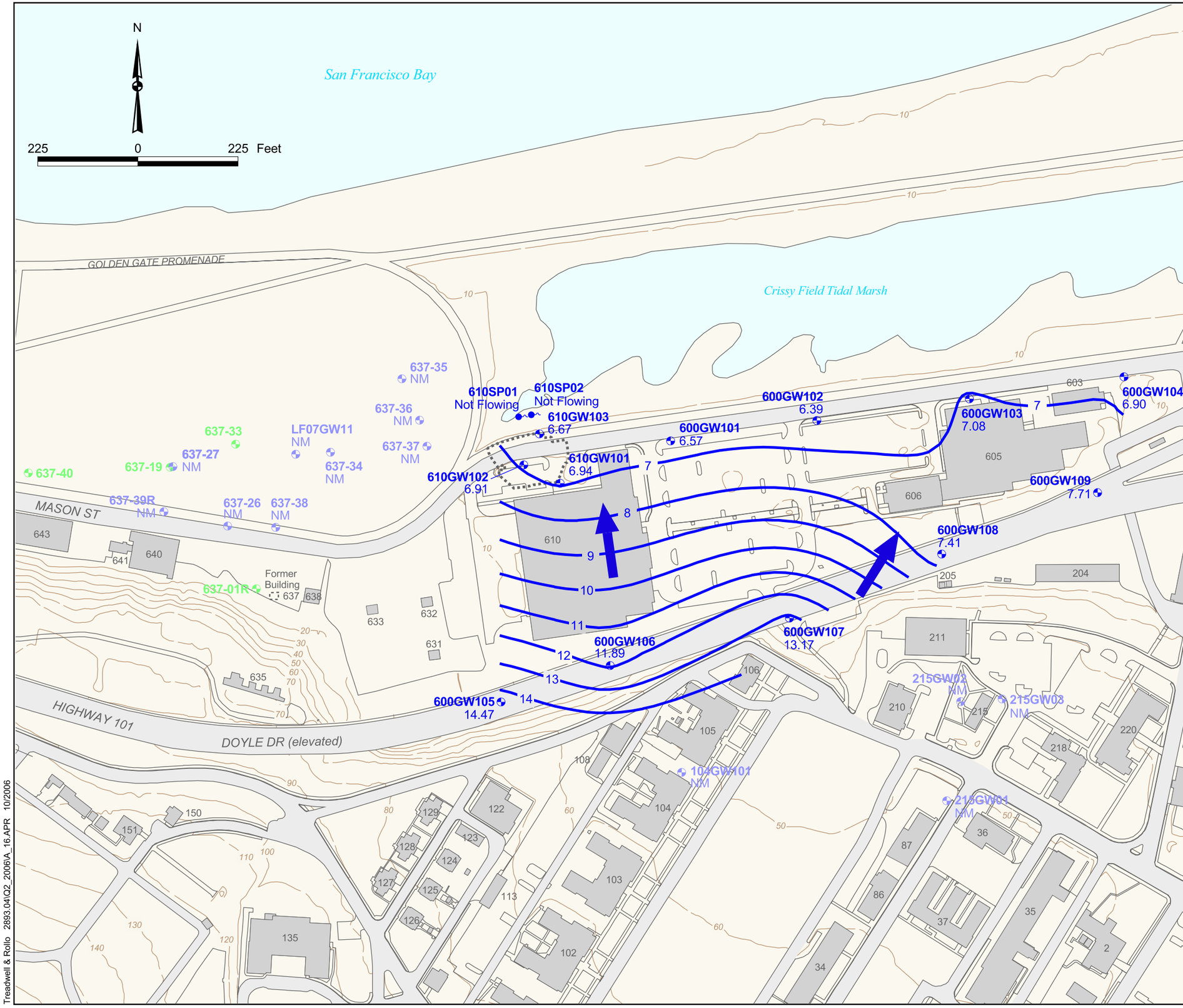
Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315
October 2006

FIGURE A-16-2

Treadwell & Rollo 2893.04\Q2_2006\A_16.APR 10/2006



LEGEND

610GW101 6.94	A1 Groundwater Monitoring Well May 2006 Groundwater Elevation
637-35	Adjacent Study Area A1 Zone Groundwater Monitoring Well
NM	Not Measured. Well approved for removal from the groundwater monitoring program.
637-19	Adjacent Study Area A2 Zone Groundwater Monitoring Well
610SP01	Surface Water Seep Location
	Approximate Direction of Groundwater Flow
	Groundwater Contour (Contour Interval : 1 ft)
	Commissary Seeps Interim Source Removal Excavation
	Topographic Contour (Contour Interval : 10 ft)
610	Building and Number

Notes:
Groundwater elevation data collected on 22 May 2006.

Seeps 610SP01 and 610SP02 were underwater at the time of the elevation survey due to the formation of sand bars at the entrance of the tidal marsh.

The excavation boundary is defined in the Commissary Seeps Interim Removal Action Report (Treadwell & Rollo, 2002a).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88

COMMISSARY/PX AREA
22 MAY 2006
GROUNDWATER ELEVATION MAP
A1 ZONE WELLS

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Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315
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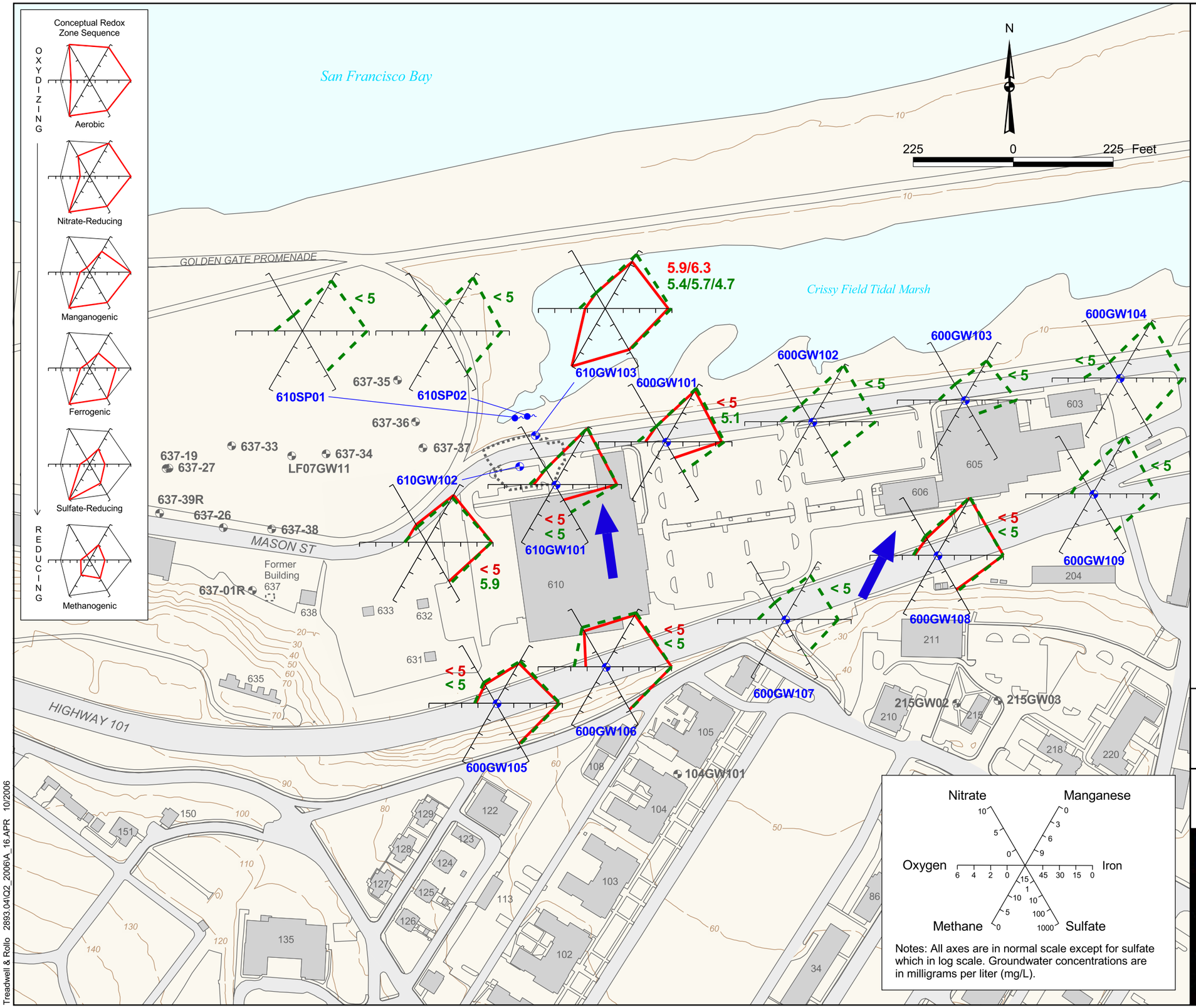
FIGURE A-16-3

Treadwell & Rollo 2893.04\Q2_2006\A_16.APR 10/2006



Notes:
The excavation boundary is defined in the Commissary Seeps Interim Removal Action Report (Treadwell & Rollo, 2002a).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datum: (topography) North American Vertical Datum, NAVD88

COMMISSARY/PX AREA REDOX DIAGRAMS FOR SHALLOW GROUNDWATER

Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315
October 2006

FIGURE A-16-4

Treadwell & Rollo 2893.04\Q2_2006\A_16.APR 10/2006

First Quarter 2006

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BL06 600 | Well No.: 600GW101

Project Number: 2493 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: Sooch / pete | Sampled by: sooch / pete | Date: 3/8/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 3.61

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Normal [ ] Modified (max 5 gpm)

[ ] Bailer \ Type [X] Pump \ Type peristaltic [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft) [X] Near Bottom Depth (ft) [ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate 200 ml/min

3000 ml ~~gals~~ ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI 556, turbidimeter

Time	/ Liters or Gallons (ml)	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments	DTW
1031	/ -	7.18	13.53	0.43	0.923	-44.7	36	H_2Sodor	3.50
1034	/ 600	7.28	13.55	0.40	0.917	-61.5	23	"	3.51
1037	/ 1200	7.33	13.46	0.38	0.908	-86.9	18	clear	3.53
1040	/ 1800	7.35	13.40	0.59	0.913	-103.7	13	"	3.52
1043	/ 2400	7.36	13.38	1.12	0.916	-113.0	9	"	3.53
1046	/ 3000	7.37	13.37	1.19	0.921	-122.9	9	"	
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								
	/								

Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 3/8/06 / 1050

Purging Equipment: Pump - Type: peristaltic Bailer - Type: Other:

Sample Filtered: Yes / No Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
600GW101	3 X 1L poly NP	CAT	2025	MS / MSD
	9 X 40ml VOA H_2SO_4			
	9 X 40ml VOA HCL			
	3 X 500ml poly HNO_3			

QUALITY CONTROL SAMPLES 3 X 500ml poly NaOH + ZnAOC

Duplicate Samples 3 X 1L AMBER

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Comm/PX
Well No.: 600 GW102
Project Number: 2843
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: B Brown
Sampled by: B Brown
Date: 3/15/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 6.60

Depth to Water (WL, ft. below TOC): 3.21

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type disposable
[X] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 4'
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

3.39 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 9.2 gals — CALCULATED PURGE VOLUME

Total Purge Time: 18

Recharge Rate: .5 gpm

Purge Rate: 0.5 gpm

9.5 gals — ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Hach/Myron/YSI/Orion

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
840	/	3.5	6.2	13.3	–	1397	–	11.90	
847	/	6.5	6.4	14.3	–	1751	–	9.87	
853	/	9.5	6.5	14.5	–	1871	–	9.56	
900	/				1.59		-39		
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Comments: Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/15/06 1900

Purging Equipment: Pump - Type: Bailer - Type: disposable Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
600GW102	6 X 40mL HCl	CET	2043	
	2 X 40mL H2SO4			
	3 X 1 L Amber			
	1 X HNO3			Filtered

QUALITY CONTROL SAMPLES

1 X NaOH

Duplicate Samples 1 X 1 L Poly

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: COMM/PK
Well No.: 6006-W103
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: B Crow
Sampled by: B Crow
Date: 3/15/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 6.24
Depth to Water (WL, ft. below TOC): 2.50
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged
[X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow
[X] Normal
[ ] Modified (max 5 gpm)
[X] Bailer \ Type: disposable
[ ] Pump \ Type:
[ ] Other:

PUMP INTAKE

[X] Near top Depth (ft): 3'
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION

3.74 (Water Column Length) x .9 (Water Volume/ft) x 3 (No. Vols) = 10.1 gals CALCULATED PURGE VOLUME

Total Purge Time: 21 min
Recharge Rate: 0.5 gpm
Purge Rate: 0.5

10.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Hach/Myron/YSI/Orion

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
934	/	3.5	6.6	11.1	–	1305	–	36.1	
941	/	7.0	6.6	11.1	–	1325	–	46.3	
948	/	10.5	6.6	11.1	–	1322	–	50.8	
955	/				0.91		-100		
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Comments:
Purge water storage/disposal: [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/15/06 955

Purging Equipment: Pump - Type: Bailer - Type: disposable Other:

Sample Filtered: (Yes) No Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
6006W103	6x 40ml HCL	CET	2043	
	2x 40mL H2SO4			
	1x HNO3			filtered
	1x 1L Poly			
	1x NaOH			
	3x 1L Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: COMM/PX
Well No.: 600GW104
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: B Pow
Sampled by: B Pow
Date: 3/15/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 6.70

Depth to Water (WL, ft. below TOC): 2.48

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type disposable
[X] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 3'
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

4.22 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 11.4 gals CALCULATED PURGE VOLUME

Total Purge Time: 24 min
Recharge Rate: 0.5
Purge Rate: 0.5

11.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Hach/Myron/YSI/Orion

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1029 / 4.0	6.9	12.7	–	990	–	>1000	
1032 / 8.0	6.8	13.1	–	1051	–	125	
1040 / 11.5	6.9	12.9	–	1056	–	99.3	
1050 /			2.07		-59		
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Comments: Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/15/06 / 1050

Purging Equipment: Pump - Type: Bailer - Type: disposable Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
600GW104	6x 40mL HCl	CAT	2043	
	2x 40mL H_2SO_4			
	3x 1L Amb			
	1L HNO_3			Filtered

QUALITY CONTROL SAMPLES

Duplicate Samples: 1x 1L Poly, 1L NaOH

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Bldg 600 | Well No.: 600GW105

Project Number: 2693 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: Soodh / Pete | Sampled by: Soodh / Pete | Date: 3/8/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 3.30

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type peristaltic
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate 250 ml/min

3000 ml ~~gals~~ ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556, multiparameter

Time	/	~~Liters~~ ml or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments	DTW
1241	/	—	7.21	13.0	0.9	0.781	-13.1	4	clear	3.30
1244	/	750	7.28	13.1	0.6	0.781	-19.5	2	clear	3.30
1247	/	1500	7.30	13.0	0.5	0.780	-25.9	1	"	3.33
1250	/	2250	7.33	13.0	0.4	0.779	-26.3	1	"	3.35
1253	/	3000	7.35	13.0	0.4	0.773	-23.3	1	"	3.37
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Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled: 3/8/06 / 1300

Purging Equipment: Pump - Type: peristaltic Bailer - Type: Other:

Sample Filtered: (Yes) No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
600GW105	1 x 1L poly MD	CET	2025	
	3 x 40 ml VOA H_2SO_4			
	1 x 500 ml poly HNO_3			
	6 x 40 ml VOA HCl			

QUALITY CONTROL SAMPLES 3 x 1L Amber

Duplicate Samples 1 x 500 ml poly NaOH + ZnAcC

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BWP 600 | Well No.: 600 GW 106

Project Number: 2843 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: Soach/pete | Sampled by: Soach/pete | Date: 3/8/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 4.40

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type peristaltic
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate 250 ml/min | 3000 ml ~~gals~~ ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI 556, NEPHELOMETER

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments	(ft.) DTW:
932	/	–	6.93	12.36	1.43	0.597	181.0	9	clear	4.45
935	/	750	6.95	12.50	1.25	0.595	160.9	4	"	4.45
938	/	1500	6.95	12.55	1.40	0.596	151.8	3	"	4.45
941	/	2250	6.94	12.71	1.53	0.596	133.3	3	"	4.45
944	/	3000	6.94	12.76	1.61	0.596	124.9	4	"	4.44
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Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 3/8/06 / 950

Purging Equipment: ~~Pump~~ - Type peristaltic | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
600 GW 106	1 x 1L poly NP	CET	2025	
	3 x 40 ml VOA H2SO4			
	1 x 100 ml poly HNO3			
	6 x 40 ml VOA HCL			

QUALITY CONTROL SAMPLES 3 x 1L AmBerC

Duplicate Samples 1 x 500 ml poly NaOH + ZnAcC

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 600 Bldg. | Well No.: 600GW107

Project Number: 2693 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: P. Cornish | Sampled by: P. Cornish | Date: 3/20/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 8.08

Depth to Water (WL, ft. below TOC): 3.26

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[X] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate .25 gpm → smaller Water Column

1.25 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI Dometer / Orion ORP

Time	/	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND µS (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1530	/	.5	7.67	15.2	pre 0.70	1068	—	135	cloudy
1533	/	.75	7.20	15.1	—	1049	—	112	"
1535	/	1	7.13	14.7	—	1047	—	50	"
1538	/	1.25	6.93	14.5	—	1045	—	37	"
	/				post 1.05		post 101.9		
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Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other Onsite Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/20/06 1550

Purging Equipment: Pump - Type: Bailer - Type: Disp. Other:

Sample Filtered: (Yes) / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
600GW107	2x40 ml H_2SO_4 VOA	CET		
	1x HNO_3 500 ml Poly			
	6x40 ml VOA HCl			
	2x1L NP Amber			

QUALITY CONTROL SAMPLES

Duplicate Samples: 1x1L NaOH + Zn Ac; 1x1L NP Poly

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: DG 600 | Well No.: 600GW108

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: sooch / peter | Sampled by: sooch / peter | Date: 3/7/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 3.73

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type peristaltic
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate 250 ml/min | 3 L gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI 556, TURBIDIMETER

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments	DTW
1559	—	7.58	13.1	0.8	0.624	-37.1	59	clear	3.73
1602	750	7.62	13.01	0.80	0.627	-41.5	25	clear	3.79
1605	1500	7.63	13.00	0.77	0.631	-45.1	9	"	3.80
1608	2250	7.63	12.96	0.70	0.631	-47.9	3	"	3.80
1611	3000	7.64	12.94	0.68	0.632	-50.5	2	"	3.80

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled 3/7/06 / 1615

Purging Equipment: Pump - Type peristaltic | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
600GW108	1x1L poly	ON	2105	
	3x40ml vol H_2SO_4			
	1x500ml poly HNO_3			
	6x40ml VOAs HCl			

QUALITY CONTROL SAMPLES 3x1L Amber

Duplicate Samples 1x500ml poly NaOH + ZnAc

Original Sample No.	Duplicate Sample No.
600GW108	DUP 030706B3 @ 1630

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Comm / PX
Well No.: 6006-W109
Project Number: 2843
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: B Brown
Sampled by: B Brown
Date: 7/14/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 7.88

Depth to Water (WL, ft. below TOC): 3.43

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [X] Bailer \ Type: disposable
[X] Normal [ ] Pump \ Type:
[ ] Modified (max 5 gpm) [ ] Other:

PUMP INTAKE

[X] Near top Depth (ft): 4'
[ ] Near Bottom Depth (ft):
[ ] Other:

PURGE VOLUME CALCULATION

4.25 (Water Column Length) x 0.9 (Water Volume/ft) x 3 (No. Vols) = 11.4 gals CALCULATED PURGE VOLUME

Total Purge Time: 16 min

Recharge Rate: 1 gpm Purge Rate: 1 gpm

11.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Myron / Hach / Orion / YSI

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1543	4.0	6.9	13.6	–	852	–	396	
1548	8.0	6.7	13.3	–	837	–	121	
1553	11.5	6.8	13.2	–	835	–	107	
				0.43		-61		

Comments: Purge water storage/disposal: [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 7/14/06 1600

Purging Equipment: Pump - Type: Bailer - Type: disposable Other:

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
6006-W109	6x 40 mL HCl	CAT	2040	
	3x 1 L Amber			
	1x HNO3			filtered
	1x 1 L Poly			

QUALITY CONTROL SAMPLES

Duplicate Samples: 1x NaOH 2x 40mL HCl

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: ~~[illegible]~~ BLDG 600 | Well No.: 610GW101

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: Goodch / PETE | Sampled by: Goodch / PETE | Date: 3/7/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 2.13

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Normal [ ] Modified (max 5 gpm)

[ ] Bailer \ Type [X] Pump \ Type peristaltic [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft) [X] Near Bottom Depth (ft) [ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate 200 ml/min | 2400 ml ~~gals~~ ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI 556, TURBIDIMETER

Time	/	ml Liters of Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments	DTW
1006	/	—	8.96	11.9	2.7	0.832	-32.0	3	clear	2.16
1009	/	600	9.62	12.0	1.2	0.748	-167.3	2	"	2.16
1012	/	1200	9.64	12.1	1.0	0.713	-190.8	2	"	2.16
1015	/	1800	9.65	12.1	0.9	0.695	-208.1	1	"	2.16
1018	/	2400	9.62	12.1	0.9	0.678	-218.6	1	"	2.16
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Comments: | Purge water storage/disposal [ ] Drummed onsite [X] Other onsite ~~[illegible]~~

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 3/7/06 / 1023

Purging Equipment: Pump - Type peristaltic | Bailer - Type | Other

Sample Filtered: (Yes) No | Filtered Sample Analysis: METALS

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
610GW101	1 X 1L poly	CAT	2105	
	3 X VOA H_2SO_4			
	1 X 500 ml poly HNO_3			
	3 X 40 ml VOA HCL			

QUALITY CONTROL SAMPLES 1 500 ml NaOH + 2 ml NaOCl

Duplicate Samples 1 X 1L Amber

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BLDG 600 | Well No.: 610GW102

Project Number: 2893 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: Soach / PETE | Sampled by: Soach / PETE | Date: 3/7/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 2.62

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Normal [ ] Modified (max 5 gpm)

[ ] Bailer \ Type [X] Pump \ Type peristaltic [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft) [X] Near Bottom Depth (ft) [ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate 250 ml/min | 24,900 ml gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI 556, TURBIDIMETER

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND ~~µmS/cm~~	ORP (mV)	Turbidity (NTU)	Comments	DW
1358	100 initial	7.96	13.90	0.72	826 µS	-115.4	4	clear	2.65
1401	850	7.96	13.95	0.58	803	-119.5	2	"	2.64
1404	1600	7.99	13.91	0.53	790	-123.0		"	2.65
1407	2350	7.98	13.91	0.49	804	-114.9		"	2.65

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled 3/7/06 / 1410

Purging Equipment: Pump - Type peristaltic | Bailer - Type | Other

Sample Filtered: Yes / No | Filtered Sample Analysis: METALS

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
610GW102	1X1L poly	CTT	2108	
	3X40ml VOA	H_2SO_4		
	3X40ml VOA	HCL		
	1X500ml poly	HNO3		

QUALITY CONTROL SAMPLES 1X500 poly NaOH + ZnAOC

Duplicate Samples 1X1L AMBER

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: 3406 600 | Well No.: 610GW103

Project Number: 2843 | Well Type: [X] Monitor [ ] Extraction [ ] Other

Recorded By: Sooch/pete | Sampled by: Sooch/pete | Date: 3/7/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 3.26

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type peristaltic
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate | Purge Rate 250 ml/min

2250 ml ~~gals~~ ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556, TURBIDIMETER

Time	Liters or ~~Gallons~~ ml	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments Dim
1432	—	7.69	14.8	0.9	0.824	-67.9	101	3.82
1435	750	7.72	14.8	1.2	0.823	-70.8	45	3.82
1438	1500	7.72	14.7	1.1	0.823	-72.4	22	3.83
1441	2250	7.78	14.7	1.0	0.822	-74.6	14	3.83

Comments | Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD | Date/Time Sampled: 3/7/06 1445

Purging Equipment: Pump - Type: peristaltic | Bailer - Type | Other

Sample Filtered: (Yes) / No | Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
610GW103	1X1L poly	CAT	2108	
	3x40ml VOA H_2SO_4			
	3x40ml VOA HCL			
	1x500ml poly HNO_3			

QUALITY CONTROL SAMPLES 1X500ml poly NaOH+ZnAOC

Duplicate Samples 1X1L RAWOCP

Original Sample No.	Duplicate Sample No.
610GW103	DUP030706A @ 500
610GW103	610GW103CL

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Conv/PX
Well No.: 610SP01
Project Number: 5893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: John D-Jony
Sampled by: John D-Jony
Date: 3/21/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[ ] 2-inch [ ] 4-inch [X] Other Seep

Well Total Depth (TD, ft. below TOC) :
Depth to Water (WL, ft. below TOC) :
Depth to free phase (FP, ft. below TOC) :

Number of borehole volumes to be purged
[ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD
[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [X] Other N/A

PUMP INTAKE
[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[X] Other N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI, Hach, Myron L

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1010 / –	7.37	14.2	1.27	1012	-84	638	Clouds
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Comments
Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 3/21/06 / 1010

Purging Equipment: Pump - Type Bailer - Type Disp. Other

Sample Filtered: Yes/No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
610SP01	3 HCl	CH	2108	
	2 H_2SO_4			
	2 HNO_3			
	1 NaOH 2 NaCl			
	1 Poly	1 Amber		

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Comm/PX
Well No.: 610SP02
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: John Dedony
Sampled by: John Dedony
Date: 3/21/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[ ] 2-inch [ ] 4-inch [X] Other 5 cp

Well Total Depth (TD, ft. below TOC) :
Depth to Water (WL, ft. below TOC) :
Depth to free phase (FP, ft. below TOC) :

Liquid in a 1 Foot Section of a Boring (gallons)

Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

Number of borehole volumes to be purged
[ ] 3 [ ] Not Applicable [ ] Other

PURGE METHOD
[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [X] Other N/A

PUMP INTAKE
[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[X] Other N/A

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI, HACH, Myron

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1030 / —	7.29	13.7	0.39	1062	-84	21000	cloudy
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Comments
Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 3/21/06 / 1030

Purging Equipment Pump - Type Bailer Type Disp Other

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
610SP02	3 HCl voas	C+T	2108	
	2 H_2SO_4			
	1 $NaOH$ ZnAc			
	2 HNO_3			

QUALITY CONTROL SAMPLES

Duplicate Samples 1L poly 1L Amber

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Second Quarter 2006

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Conoco/PX
Well No.: 610SP01
Project Number: 28931
Well Type: [X] Monitor [ ] Extraction [ ] Other Sump
Recorded By: J. DeJong
Sampled by: J.
Date: 5/25/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[ ] 2-inch [ ] 4-inch [X] Other

Well Total Depth (TD, ft. below TOC) :

Depth to Water (WL, ft. below TOC) :

Depth to free phase (FP, ft. below TOC) :

Number of borehole volumes to be purged
[ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/							
1302 /	Not running	→		No sample			
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Comments Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled /

Purging Equipment Pump - Type Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Comm/Px
Well No.: 6105P02
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: J. DeJong
Sampled by: J. DeJong
Date: 5/25/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[ ] 2-inch [ ] 4-inch [X] Other Steel

Well Total Depth (TD, ft. below TOC) :

Depth to Water (WL, ft. below TOC) :

Depth to free phase (FP, ft. below TOC) :

Number of borehole volumes to be purged
[ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/							
/							
1300 /	Not	running		No	Sample		
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Comments Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled /

Purging Equipment Pump - Type Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Comm/Px
Well No.: 060 6002GW105
Project Number: R.Cornish
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: R.Cornish
Sampled by: R.Cornish
Date: 5/23/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 3.09

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type Peri.
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate 200 ml/min

3.6 L gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI 556 Flow Cell

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(TOC) DTW:	Comments
1428 / Init.	7.00	15.09	1.71	914 µs	-23.9	4.72		
1431 / .600	6.99	14.28	0.41	989	-20.8	9.48	3.22	
1434 / 1.2	6.98	14.43	0.28	985	-24.3	5.17	3.20	
1437 / 1.8	6.97	14.53	0.24	1004	-25.6	3.38	3.22	
1440 / 2.4	6.97	14.56	0.26	1007	-26.5	2.41	3.21	
1443 / 3.0	6.96	14.53	0.24	1007	-26.8	2.40	3.20	
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Comments

Purge water storage/disposal [ ] Drummed onsite [X] Other onsite Tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/23/06 / 1456

Purging Equipment: Pump - Type Peri. Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
6002GW105	1x1L Amber NP	C&T	2140	
	1x1L Poly NP			
	1x500ml Poly HNO3			
	3x40ml Vial HCl			

QUALITY CONTROL SAMPLES 1x500ml Poly ZnAc/NaOH

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Comm/PX
Well No.: 600GW106
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: D. Cornish
Sampled by: D. Cornish
Date: 5/23/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 4.32

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type Peri.
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate 200ml/min

2.75L gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI 556 Flow Cell

Time	/ Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(ft.) DTW	Comments
1330	/ init	7.06	15.24	1.91	681 µS	-62.0	2.19		
1333	/ .600	7.010	14.27	0.38	730	-76.8	3.06	4.39	
1336	/ 1.2	6.95	14.20	0.18	735	-86.8	2.37	4.72	
1339	/ 1.8	6.94	14.23	0.16	737	-75.3	1.78	5.10	
1342	/ 2.4	6.94	14.24	0.17	738	-71.9	1.79	5.21	
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Comments

Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/23/06 / 13:50

Purging Equipment: Pump - Type Peri. Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
600GW106	1x1L Amber NP	CET	2146	
	1x1L Poly NP			
	1x500ml Poly HNO3			
	3x40ml Vial HCl			

QUALITY CONTROL SAMPLES 1x500ml Poly NaOH/zinc

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Comm /Px
Well No.: 600GW108
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: R. Gerwish
Sampled by: R. Gerwish
Date: 5/23/06

WELL PURGING

PURGE VOLUME

Well casing diameter
[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC) :
Depth to Water (WL, ft. below TOC) : 4.60
Depth to free phase (FP, ft. below TOC) :

Number of borehole volumes to be purged
[ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type Peri.
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals

Total Purge Time
Recharge Rate
Purge Rate 200ml/min

CALCULATED PURGE VOLUME
2.74 ~~gals~~
ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI 556 Flowcell

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	(D.T.W.) DTW	Comments
1235 / init.	7.03	17.05	0.56	1130 µS	-114.9	4.80		clear
1238 / .600	7.03	16.65	0.58	917	-112.6	3.22	4.99	
1241 / 1.2	7.03	15.91	0.63	735	-110.4	2.09	5.01	
1244 / 1.8	7.04	15.53	0.58	664	-105.1	2.13	5.00	
1247 / 2.4	7.06	15.49	0.51	622	-104.2	2.13	5.01	
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Comments
Purge water storage/disposal [ ] Drummed onsite [X] Other onsite Poly

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 5/23/06 1255

Purging Equipment Pump - Type Peri Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
600GW108	1x1L Amber NP	CAT	2146	
	1x1L Poly NP			
	3x40ml VOA HCl			
	1x500ml Poly HNO3			
	1x500ml Poly NaOH/ZnAc			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Comm/PK
Well No.: 610GW102
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: D. Cornish
Sampled by: D. Cornish
Date: 5/23/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 3.39

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type Dev.
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate 250ml/min

3.56 ~~gals~~ ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI 556 FlowCell

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments (ft) DTW
944 / init ~~250~~	7.25	17.67	0.33	915 µS	-101.5	4.01	clear
947 / 750	7.24	17.49	0.33	904	-111.3	2.73	3.50
950 / 1500	7.21	17.50	0.38	889	-110.0	2.30	3.52
953 / 2.250	7.20	17.49	0.36	873	-104.4	2.20	3.53
956 / 3.0	7.21	17.60	0.36	864	-101.7	1.56	3.53
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Comments

Purge water storage/disposal [ ] Drummed onsite [X] Other onsite Poly

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/23/06 / 1004

Purging Equipment: Pump - Type Dev. Bailer - Type Other

Sample Filtered: (Yes) No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
610GW102	1x1L Amber NP	C&T	2140	
	1x1L Poly NP			
	3x40ml Voa HCl			
	1x500ml Poly HNO3			
	1x500ml Poly NaOH/zn ac			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: COMM/PX
Well No.: 610GW103
Project Number: 2892
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: D. Cornish
Sampled by: D. Cornish
Date: 5/23/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 4.52

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Normal [ ] Modified (max 5 gpm)
[ ] Bailer \ Type
[X] Pump \ Type: Peri.
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate 200 ml/min

3.0 L gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: YSI 556 Flowcell

Time / Clear or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments (ft) DTW:
1040 / init	7.18	19.25	0.65	886 µS	-95.1	7.50	clear
1043 / .600	7.15	18.81	0.48	986	-84.5	28.9	4.62
1046 / 1.2	7.14	18.78	0.38	989	-82.9	23.5	4.63
1049 / 1.8	7.15	18.75	0.35	989	-81.7	19.8	4.63
1052 / 2.6	7.16	18.72	0.31	989	-79	18.8	4.65
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Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other on site tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/23/06 / 1100

Purging Equipment: Pump - Type: Peri. Bailer - Type: Other:

Sample Filtered: (Yes) No Filtered Sample Analysis: metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
610GW103	1x1L Amber NP	C&T	2146	
	1x1L Poly NP			
	3x40ml Vial HCl			
	1x500ml Poly HNO3			
	1x500ml Poly NaOH/ZnAc			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
610GW103	DUP052306A

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Comm/PX
Well No.: 610GW101
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: D. Cornish
Sampled by: D. Cornish
Date: 5/23/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 2.98

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type Peristaltic
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[X] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate 250ml/min

3.86 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI 556 FlowCell

Time	/ Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments (ft. DTW)
920	/ init	7.16	18.46	0.65	1001 µs	-40.1	9.96	clear
923	/ .750	7.25	18.72	0.39	950	-101.9	4.79	306
926	/ 1.500	7.24	18.70	0.39	950	-130.5	2.57	3.06
929	/ 2.250	7.23	18.79	0.39	948	-133.7	2.42	311
932	/ 3.0	7.21	18.80	0.40	947	-133.0	2.50	3.20
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	/							

Comments

Purge water storage/disposal [ ] Drummed onsite [X] Other onsite tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/23/06 / 936

Purging Equipment: Pump - Type: Peri. Bailer - Type: Other:

Sample Filtered: (Yes) No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
610GW101	3x40ml VOA HCl	CET	2146	
	1x1L Amber NP			
	1x1L Poly NP			
	1x500ml poly HNO3			

QUALITY CONTROL SAMPLES 1x500ml Poly NaOH ZnAc

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Comm/PX
Well No.: 600GW101
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: D. Cornish
Sampled by: D. Cornish
Date: 5/23/06

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC): 4.22

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[X] Low Flow [ ] Bailer \ Type
[ ] Normal [X] Pump \ Type Peri.
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate 200 ml/min

2.8 L ~~gals~~ ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type YSI 556 Flowcell

Time	/ Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments (FC) DTW:
1140	/ init	6.99	17.01	1.10	1367 µS	-71.8	18.5	clear
1143	/ .600	6.99	16.80	0.53	1416	-77.0	20.8	4.32
1146	/ 1.2	7.07	16.83	0.33	1429	-102.5	14.8	4.32
1149	/ 1.8	7.03	16.78	0.29	1445	-116.0	8.18	4.33
1152	/ 2.4	7.03	16.75	0.24	1453	-125.9	4.62	
	/							
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Comments: Purge water storage/disposal [ ] Drummed onsite [X] Other onsite Poly

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 5/23/06 / 1200

Purging Equipment: Pump - Type Peri. Bailer - Type Other

Sample Filtered: (Yes) No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
600GW101	1x1L Amber NP	C&T	2146	
	1x1L Poly NP			
	3x40ml Vom HCl			
	1x500ml Poly HNO3			
	1x500ml Poly NaOH/ZnAC			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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Environmental and Geotechnical Consultant

BAKER BEACH DISTURBED AREAS 1 AND 2A
APPENDIX SECTION A-17
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST AND SECOND QUARTERS 2006
Presidio of San Francisco, California

1.0 INTRODUCTION AND BACKGROUND

Baker Beach Disturbed Area (BBDA)s 1 and 2A are located along the western coastline of the Presidio, south of the Golden Gate Bridge. The site is bordered by the Golden Gate Bridge Highway and Transportation District to the north, Merchant Road, and Lincoln Boulevard to the east and the Pacific Ocean to the west. BBDAs 1 and 2A are situated immediately west of Batteries Boutelle and Marcus Miller, and north of BBDA 2 (Figure 1). The site elevation ranges from approximately 10 to 250 feet above PLLW.

BBDAs 1 and 2A have been identified as "disturbed areas" where buried waste fill is present (Figure A-17-1). Based on a review of aerial photographs, BBDAs 1 and 2A received fill material intermittently between 1946 and 1973 (MACTEC, 2004). The fill material in BBDAs 1 and 2A is composed primarily of soil and debris fill containing concrete, asphalt, and metal debris (Figure A-17-1).

Groundwater has not been encountered at the site, but freshwater seeps are present at various locations throughout the Coastal Bluffs (MACTEC, 2004). On 21 and 22 April 2005, two piezometers were installed within the fill to monitor freshwater seeps at BBDA 1. The piezometers were designated as BB1PZ100 and BB1PZ101. An ephemeral seep, BB2ASW100, flows seasonally at the toe of the fill at BBDA 2A (A-17-1). Summaries of dissolved oxygen, general chemistry, TPH, and metals, PAH, and VOC results are presented in Table A-17-1 through A-17-4.

Remedial excavation is planned for these areas and is scheduled to begin in early 2007. Monitoring and sampling of the freshwater seeps at BBDAs 1 and 2A will continue until commencement of remedial construction activities. The piezometers will be abandoned prior to the remedial action. If surface water seeps are present following the excavation activities, then sampling points will be installed, if needed, and quarterly monitoring will resume.

2.0 SITE DESCRIPTION AND GEOLOGY

BBDAs 1 and 2A are located in the Coastal Groundwater Basin (Figure 1). Based upon hydrogeologic information from adjacent areas, groundwater may be present in limited areas of the landslide deposit and the weathered serpentinite bedrock formations. Groundwater has not been encountered within the BBDAs 1 and 2A footprints. However, groundwater flow is

assumed to follow the general topographic trend westward toward the Pacific Ocean (Figure A-17-1).

The fill material at the sites is characterized as random mixtures of soil, chert, and serpentinite fragments, debris fill including building debris (red brick, concrete, glass, and wood) and glass, ceramics, and automotive parts (MACTEC, 2004).

The area in the vicinity of BBDAs 1 and 2A is a steeply sloping bluff with a narrow beach at its base. Surface drainage in the area is to the west, toward the Pacific Ocean. Vegetation in the area consists of grasses, shrubs, and trees.

Local geology is predominantly Franciscan Formation overlain by landslide deposits. The Franciscan Formation in the area consists primarily of serpentinite and minor amounts of sandstones, shales, and cherts; the overlaying landslide deposits generally consist of unstratified mixtures of bedrock fragments, sand, silt, and clay (Schlocker, 1974). The thickness of debris fill is estimated to be greater than 3.5 feet in this area. (MACTEC, 2004).

Ephemeral seeps are monitored at two locations at BBDA 1 (BB1PZ100 and BB1PZ101) and at the toe of the fill at BBDA 2A (BB2ASW100) (Figure A-17-1). Historical surface water monitoring data for BBDAs 1 and 2A are presented in the *Draft Remedial Action Plan, Baker Beach Disturbed Areas 1, 1A, 2, and 2A, and Twenty-Seven Other Sites* (RAP3) (MACTEC, 2004). As documented in RAP3, it is anticipated that removal of the fill material could alter the location(s) of the freshwater seep(s) located at BBDAs 1 and 2A.

3.0 REMEDIAL ACTION PLAN

RAP3 is currently being reviewed by the Trust and the NPS and was submitted to the DTSC, RWQCB, and RAB for concurrence prior to public review. Based on the soil analytical results from previous investigations, contaminants of concern (COCs) in soil identified for BBDAs 1 and 2A include pesticides, PAHs, and metals. Additionally, PCBs are a COC at BBDA 1.

Freshwater seep sampling at the BBDAs 1 and 2A will be conducted in accordance with the RAP3 when the RAP3 is finalized. The current analytical suite for freshwater seep samples is to monitor for the soil COCs. The recommended remedial actions for the BBDAs 1 and 2A will be discussed in detail in this report when RAP3 is approved by the stakeholders. Cleanup levels proposed in the RAP3 are based on human health drinking water and freshwater seep cleanup levels and are presented in Tables A-17-2 through A-17-4. Prior to implementing excavation activities proposed in RAP3, existing piezometers BB1PZ100 and BB1PZ101 will abandoned. If freshwater seeps are present, then following completion of excavation activities, monitoring will resume.

4.0 FRESHWATER SEEP MONITORING

BBDAs 1 and 2A were added to the Presidio-Wide Groundwater Monitoring Program beginning in the Second Quarter 2006. Prior to that event, Site monitoring and sampling was performed and reported as part of the RAP3 activities. The First and Second Quarters 2006 were the first and second expanded monitoring events conducted at BBDAs 1 and 2A, since the piezometers were installed in April 2005 and BB1PZ101 was sampled for TPH, PAHs, VOCs, and metals. During the Second Quarter 2006, fresh water seep elevations were measured and sampling was performed within the two piezometers (BB1PZ100 and BB1PZ101) and seep location BB2ASW100. The BB2ASW100 location was dry during the Second Quarter 2006 and therefore no water elevations or samples were collected. The proposed sampling schedules for Second Quarter 2006 are presented in Table 1B.

4.1 Fresh Water Seep-Level Measurements and Interpretation

Fresh water seep elevation measurements were collected on 22 May during the Second Quarter 2006. The fresh water seep elevations at BBDAs 1 and 2A are shown on Figures A-17-1. Water level meters were calibrated on 22 May 2006 and the calibration logs can be found in Appendix B. Groundwater elevation field forms can be found in Appendix C.

Fresh water seep elevations at the BBDA 1 during the Second Quarter 2006 ranged from 104.20 to 63.84 feet above PLLW in piezometers BB1PZ100 and BB1PZ101, respectively (Table A-17-5).

Ground water contours and flow directions for BBDAs 1 and 2A could not be calculated due to the lack of groundwater and absence of monitoring locations. However, the apparent seep flow direction across BBDA 1 was observed to be in a westerly direction toward the Pacific Ocean following the general topographic trend.

4.2 Monitoring Well Purging and Sampling

Two piezometers (BB1PZ100 and BB1PZ101) and seep location BB2ASW100 were proposed for sampling during the Second Quarter 2006 (Table 1B) at BBDAs 1 and 2A. Samples were collected during the First Quarter 2006 from the piezometers and seep locations on 1 February 2006 by MACTEC as part of the RAP3 activities. The results from this sample event are included in Tables A-17-1 through A-17-5. During the Second Quarter 2006, BBDA 1 piezometers BB1PZ100 and BB1PZ101 were purged and sampled on 23 May 2006. Seep location BB2ASW100 was dry during the Second Quarter 2006 and therefore, could not be sampled. All samples locations were collected in accordance with methods shown in Table1B and procedures described in the FSP (Treadwell & Rollo, 2001a).

Purging equipment, purging volumes, purge water parameters, and sampling equipment for each sampling location are described in the purge records at the conclusion of this section. Purge water was stored for future disposal in one of two 2,800-gallon aboveground polyethylene storage tanks, which are located at the Central Magazine.

4.3 Groundwater Analytical Program

All fresh water seep samples were submitted to the project laboratory for the analyses shown in Table 1B of the main text. The appropriate sampling containers, preservatives, and maximum holding times for each analytical method are shown in Table 5. Sample containers used for each well are described in the purge records located at the conclusion of this section.

QA/QC samples were collected as part of this program. Section 6.2 of the main text discusses the QA/QC sampling and analysis performed for the Second Quarter 2006.

5.0 SURFACE WATER ANALYTICAL RESULTS

During the Second Quarter 2006, seep locations BB1PZ100 and BB1PZ101 were purged and sampled on 23 May 2006. Seep location BB2ASW100 was dry during the Second Quarter 2006 and therefore, could not be purged or sampled. All samples were analyzed for dissolved oxygen, general chemistry parameters, TDS, TPHd, TPHfo, and both dissolved and total metals. Additionally, samples collected during First Quarter 2006 and 27 May 2005 were analyzed for PAHs and VOCs. All analyses were conducted in accordance with the groundwater sampling schedule (Table 1B).

A sufficient amount of data has not yet been collected to evaluate concentration trends and therefore, a discussion of the detected analyte concentrations is provided below.

5.1 Dissolved Oxygen and General Chemistry Results

Dissolved oxygen and general chemistry results are presented in Table A-17-1.

During the Second Quarter 2006, dissolved oxygen was measured at concentrations of 3.51 and 4.13 mg/L within BB1PZ100 and BB1PZ101, respectively. A sufficient amount of dissolved oxygen data has not yet been collected from these locations to develop trends.

General chemistry analytical results are also presented in Table A-17-1. In general, general chemistry parameter concentrations are consistent between the three locations for the First and Second Quarter 2006 samples. Trends will continue to be monitored during future sampling events.

5.2 TPH Results

The analytical results for TPHd and TPHfo, along with the RAP-specified cleanup levels, are presented in Table A-17-2.

During the First Quarter 2006, TPHg was not detected above the laboratory reporting limits in any of the seep locations. TPHd concentrations ranged from 47 µg/L at BB2ASW100 to 830 µg/L at BB1PZ100. TPHfo concentrations ranged from 140 µg/L at BB1PZ101 to 3,100 µg/L at BB1PZ100.

During the Second Quarter 2006, TPHd and TPHfo concentrations at BB1PZ100 and BB1PZ101 ranged between 130 µg/L to120 µg/L, and 630 µg/L to 420 µg/L, respectively. TPHg was not analyzed during the Second Quarter 2006.

5.3 Total and Dissolved Metals Results

Because the First and Second Quarters 2006 were the first and second monitoring events for BB1PZ100 and BB2ASW100 and the second and third events at BB1PZ101, there is not sufficient data to evaluate metal trends. The total and dissolved metals and TDS results for Second Quarter 2006, along with RAP-specified cleanup levels, are presented in Table A-17-3. BBDA 1 seep water samples collected from the piezometer locations during the Second Quarter 2006 were analyzed for both total and dissolved metals.

The majority of dissolved metals concentrations measured during the Second Quarter 2006 are below RAP-specified cleanup levels. Detections above RAP-specified cleanup levels are discussed below.

- During the First Quarter 2006, copper was detected at a concentration of 13 µg/L within the sample collected from BB2ASW100. This exceeds the RAP-specified cleanup of 11.8 µg/L for copper.
- During the First Quarter 2006, mercury was detected at concentrations of 8.5, 8.9, and 1.3 µg/L within the primary and duplicate samples collected from BB1PZ100 and BB2ASW100, respectively. This exceeds the RAP-specified cleanup of 0.012 µg/L for mercury.

RAP-specified cleanup levels apply only to dissolved metals. No metals were detected above RAP-specified cleanup levels during the Second Quarter 2006.

5.4 PAH and VOC Results

During the First Quarter 2006, all three locations were sampled for PAH and VOC analyses. BB1PZ100 and BB1PZ101 samples were also tested for PAHs in May 2005. During the Second Quarter 2006, BB1PZ100 and BB1PZ101 were sampled for PAHs.

During the First Quarter 2006, several PAHs were detected within the primary and duplicate (DUP020106) samples collected from BB1PZ100. Chrysene was reported at concentrations of 0.02 and <0.1 µg/L, respectively. Naphthalene was detected at concentrations of 0.06 and 0.02 µg/L, respectively. Phenanthrene was detected at concentrations of 0.02 and 0.01 µg/L, respectively. Pyrene was detected at concentrations of 0.02 and <0.02 µg/L, respectively.

During the First Quarter 2006, PAHs results in the sample collected from BB1PZ101 were detected at the following concentrations; fluorene at a concentration of 0.06 µg/L; phenanthrene at a concentration of 0.01 µg/L; and pyrene at a concentrations of 0.01. PAH results during the First Quarter 2006 in seep location BB2ASW100 detected: anthracene (0.05 µg/L), benzo(a) anthracene (0.01 µg/L), benzo(b) fluoranthene (0.02 µg/L), chrysene (0.03 µg/L), fluoranthene (0.05 µg/L), fluorene (0.1 µg/L), naphthalene (0.05 µg/L), phenanthrene (0.09 µg/L), and pyrene (0.05 µg/L).

No other PAHs were detected in any of the BBDAs 1 and 2A samples during the First Quarter 2006. All detected concentrations of PAHs were below the proposed RAP3 effective cleanup levels. No PAHs were detected within BB1PZ100 or BB1PZ101 during the Second Quarter 2006.

VOC analytical results during the First Quarter 2006 in the primary and duplicate (DUP020106) samples from BB1PZ100, acetone was detected at concentrations of 1.5 and 0.9 µg/L, respectively. Benzene was detected at concentrations of 0.2 and 0.1 µg/L, respectively. Carbon disulfide was detected at concentrations of 0.1 and 0.1 µg/L, respectively. Methylene chloride was detected at concentrations of 0.3 and 0.2 µg/L, respectively.

During the First Quarter 2006 and 27 May 2005, results of VOC in samples from BB1PZ101, acetone was detected at concentrations of 1 and 0.9 µg/L. Methylene chloride was detected at concentrations of 0.2 and <10 µg/L, respectively. During the First Quarter 2006, VOCs detected in BB2ASW100 included acetone at 2.6 µg/L, carbon disulfide at 0.1 µg/L and methylene chloride (0.6 µg/L). No other VOCs were detected in any of the BBDAs 1 and 2A samples during the First Quarter 2006 and all detected concentrations of VOCs were below the proposed RAP3 effective cleanup levels.

6.0 CONCLUSIONS AND RECOMMENDATIONS

BBDAs 1 and 2A were added to the Presidio-Wide Groundwater Monitoring Program beginning Second Quarter 2006. No groundwater has been encountered at BBDAs 1 and 2A, however, two piezometers (BBDA1PZ100 and BB1PZ101) monitor a fresh water seep at BBDA 1 and one seep location is monitored at BBDA 2A (BB2ASW100).

Due to limited data collected to date, no significant trends were identified during the Second Quarters 2006 at BBDAs 1 and 2A. Future detections and trends will continue to be monitored and evaluated in accordance with the RAP, which is scheduled to be completed in 2007.

Table A-17-1
Results of Dissolved Oxygen and General Chemistry Analyses
Baker Beach Disturbed Areas 1 and 2A
Presidio of San Francisco, California

Location ID	Sample Date	Alkalinity, Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Nitrate + Nitrite	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	Field	E300.0	E300.0	E300.0	E300.0	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
BB1PZ100	05/23/06	430	430	230	3.51	0.12	< 0.05	< 0.05	NA	110
	02/01/06	490	490	240	NA	0.13	< 0.05	NA	0.14	140
DUP020106	02/01/06	550	550	230	NA	0.091 J	< 0.05	NA	0.11	110
BB1PZ101	05/23/06	590	590	260	4.13	0.26	< 0.05	< 0.05	NA	150
	02/01/06	670	670	270	NA	0.25	< 0.05	NA	< 0.1	110
BB2ASW100	05/23/06	NM	NM	NM	NM	NM	NM	NM	NM	NM
	02/01/06	530	530	250	NA	0.31	0.94	NA	0.97	210

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2006.
mg/L - milligrams per liter
NA - not analyzed
NM - not measured
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-17-2
Results of TPH Analyses
Baker Beach Disturbed Areas 1 and 2A
Presidio of San Francisco, California

Location ID	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
BB1PZ100	05/23/06	NA	130 HY	630
	02/01/06	< 33 UJ	380 HY	1,600
DUP020106	02/01/06	< 31 UJ	830 HY	3,100
BB1PZ101	05/23/06	NA	120 HY	420
	02/01/06	< 32 UJ	94 HY	140 J
	08/01/05	NA	NA	NA
	05/27/05	< 50 UJ	31 J	58 JY
BB2ASW100	05/23/06	NA	NA	NA
	02/01/06	< 27 UJ	47 JY	< 300

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2006.
µg/L - micrograms per liter
TPH - total petroleum hydrocarbons
NA - not analyzed
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were
Table 11 in the main report identifies current and historical data qualifiers.

Table A-17-3
Results of Total and Dissolved Metals Analyses
Baker Beach Disturbed Areas 1 and 2A
Presidio of San Francisco, California

Location ID	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese
	Analytical Method[1]	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Target Effective Cleanup Levels [2]		**--**	**--**	**190**	**--**	**--**	**1.1**	**--**	**180**	**--**	**11.8**	**--**	**3.2**	**--**	**--**
BB1PZ100	05/23/06	< 100	< 1	< 5	110	< 2	< 1	41,000	< 10	< 10	< 1	220	< 3	61,000	140
(Total)	05/23/06	2,500	< 1	< 5	170	< 2	1.2	52,000	100	< 10	19	25,000	790	73,000	720
	02/01/06	51	4.9	3.4	99 J	< 1	< 1	NA	2 J	0.32 J	1.4 J	250	2.2	55,000	110
(Total)	02/01/06	NA	1.1	8.9	250 J	0.4 J	3.1	39,000 J	180 J	16	74 J	NA	1,800	NA	NA
DUP020106	02/01/06	34 J	9.7	9.3	85 J	< 1	< 1	74,000 J	1.3 J	2.6	2.1 J	300	1.5	110,000	1,000
(Total)	02/01/06	NA	1.9	9.4	330 J	0.38 J	3.3	NA	320 J	26	190 J	NA	2,000	NA	NA
BB1PZ101	05/23/06	< 100	1.7	< 5	83	< 2	< 1	83,000	< 10	< 10	6.7	< 100	< 3	130,000	1,700
(Total)	05/23/06	5,000	1.7	14	130	< 2	< 1	91,000	24	26	230	14,000	83	130,000	2,200
	02/01/06	22 J	1.9	3.4	110 J	< 1	< 1	36,000 J	1	< 0.17 UJ	0.56 J	140	0.62	61,000	110
(Total)	02/01/06	NA	3.8	18	160 J	0.63 J	0.42 J	NA	37 J	20	64 J	NA	56	NA	NA
	08/01/05	NA	3.1	7.1	74	< 1	< 1	NA	0.69 J	1.9	1.2	NA	0.25	NA	NA
(Total)	08/01/05	NA	1.3	13	120	0.33 J	0.17 J	NA	17 J	14	60	NA	45	NA	NA
	05/27/05	NA	2.6 J	6.8	63 J	< 2	< 5	NA	0.69	2.1 J	1.6 J	NA	0.26	NA	NA
BB2ASW100	05/23/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/01/06	36 J	7.3	7.5	88	< 1	< 1	NA	5 J	0.6 J	13 J	200	< 1.2	120,000	7
(Total)	02/01/06	NA	3	19	290 J	2	2.6	53,000	77 J	190	320 J	NA	610	NA	NA

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2006.
2 - Seep water target effective cleanup levels were taken from *Draft Remedial Action Plan, Baker Beach Disturbed Areas 1, 1A, 2, and 2A, and Twenty-Seven Other Sites, Presidio of San Francisco, Californ*
All metals results represent dissolved metals, unless indicated as "total" in the left-hand column for total metal results.
mg/L - milligrams per liter
µg/L - micrograms per liter
NA - not analyzed
-- - not available or applicable
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-17-3
Results of Total and Dissolved Metals Analyses
Baker Beach Disturbed Areas 1 and 2A
Presidio of San Francisco, California

Mercury	**Molybdenum**	**Nickel**	**Potassium**	**Selenium**	**Silver**	**Sodium**	**Thallium**	**Vanadium**	**Zinc**	**Total Dissolved Solids**
SW7470	SW6010	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
0.012	**--**	**158**	**--**	**5**	**4.1**	**--**	**--**	**--**	**106**	**--**
< 0.2	NA	< 20	10,000	< 5	< 1	240,000	< 1	< 10	< 20	NA
1.1	NA	130	10,000	< 5	< 1	230,000	< 1	26	1,100	NA
8.5	32	11	NA	0.63 J	< 1	190,000	< 1	3.6	19	NA
7.5	3.3	230	NA	1.7	0.21 J	NA	< 1	55	2,200	990
8.9	8.7	13	NA	1.1	< 1	180,000	< 1	8.6	23	NA
11	6.9	360	NA	2.4	0.96 J	NA	< 1	62	2,000	1,000
< 0.2	NA	< 20	4,300	< 5	< 1	200,000	< 1	< 10	< 20	NA
0.54	NA	86	4,600	< 5	< 1	200,000	< 1	41	160	NA
<0.2	33	11	NA	1.3	< 1	200,000	< 1	3.8	14 b	NA
0.3	4	62	NA	1.7	0.054 J	NA	0.09 J	49	140	1,340
<0.2	5.9	9.4	NA	0.8 J	< 1	NA	< 1	2.7	17 J	NA
<0.2	2.2	42	NA	1.9	< 1	NA	0.94 J	25	75 J	NA
<0.2	6.7 J	10 J	NA	0.6 J	< 5	NA	< 5	3 J	18 J	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1.3	12	17	NA	2.1	< 1	180,000	< 1	5.2	24	NA
5.5	1.5	810	NA	5.5	0.097 J	NA	0.95 Jb	65	820	1,200

ıia (MACTEC, 2004).

Table A-17-4
Results of PAH and VOCs Analyses
Baker Beach Disturbed Areas 1 and 2A
Presidio of San Francisco, California

Location ID	Sample Date	Acenaphthene	Anthracene	Benzo(a)-anthracene	Benzo(b)-fluoranthene	Chrysene	Fluoranthene	Fluorene	Naphthalene
	Analytical Method[1]	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Target Effective Cleanup Levels [2]		**--**	**770**	**0.1**	**0.2**	**20**	**300**	**300**	**300**
BB1PZ100	05/23/06	< 2	< 0.49	< 0.1	< 0.2	< 0.1	< 0.39	< 0.98	< 0.98
	02/01/06	<0.1	< 0.1	< 0.1	< 0.1	0.02 J	<0.1	< 0.1	0.06 J
DUP020106	02/01/06	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1	< 0.1	0.02 J
BB1PZ101	05/23/06	< 2	< 0.5	< 0.1	< 0.2	< 0.1	< 0.4	< 0.99	< 0.99
	02/01/06	<0.1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	0.06 J	<0.1 UJ
	05/27/05	<0.09	< 0.09	< 0.09	< 0.1	0.01	0.03	0.2	<0.09
BB2ASW100	02/01/06	0.03 J	0.05 J	0.01 J	0.02 J	0.03 J	0.05 J	0.1	< 0.05 UJ

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2006.
2 - Seep water target effective cleanup levels were taken from *Draft Remedial Action Plan, Baker Beach Disturbed Areas 1, 1A, 2, and 2A, and Twenty-Seven Other Sit*
µg/L - micrograms per liter
NA - not analyzed
-- - not available or applicable
ND - All analytes below reported individual analytical detection limits
Table 7 in the main report identifies all duplicate and split samples and associates them with the well from which they were collected.
Table 11 in the main report identifies current and historical data qualifiers.

Table A-17-4
Results of PAH and VOCs Analyses
Baker Beach Disturbed Areas 1 and 2A
Presidio of San Francisco, California

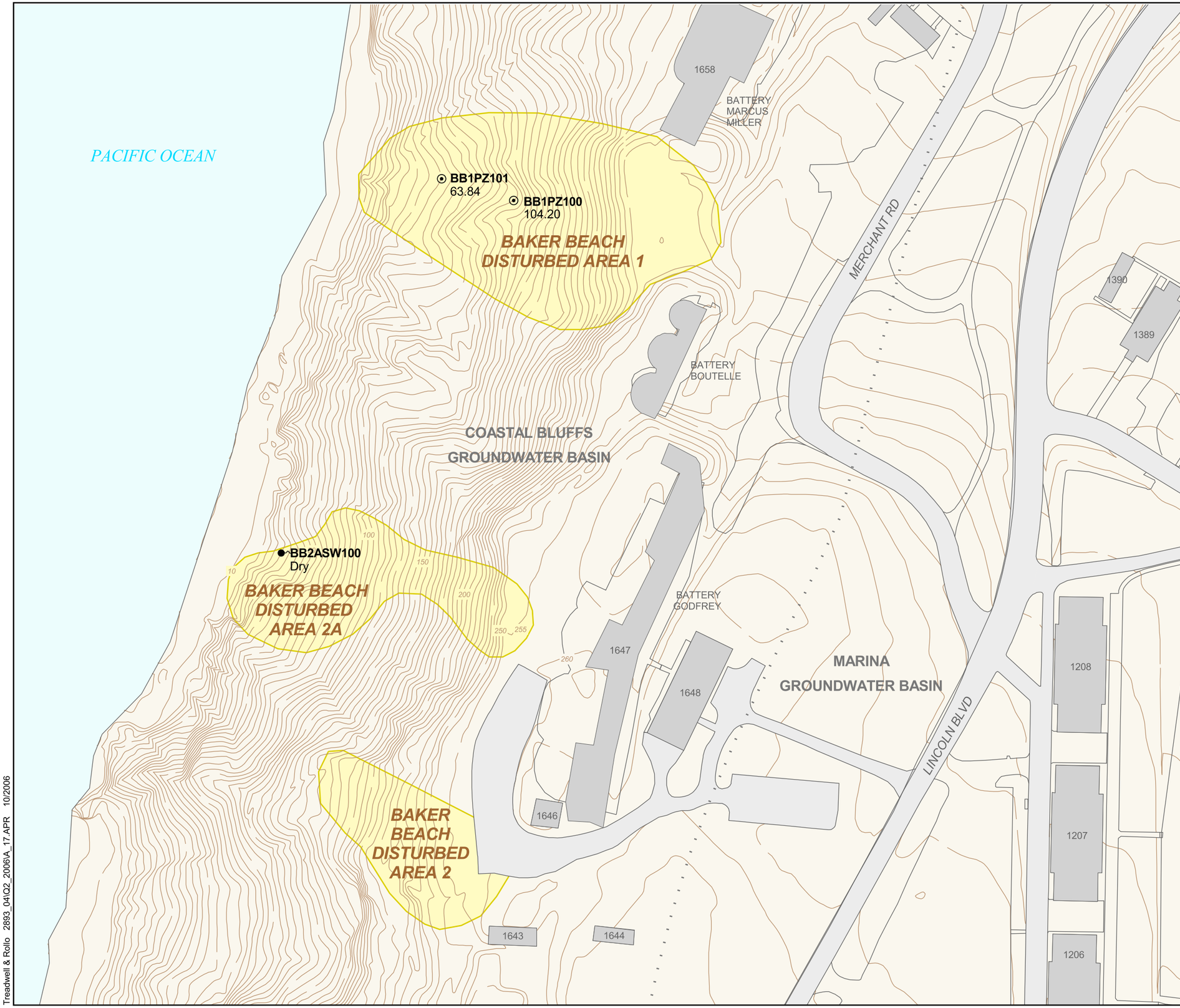
Phenanthrene	**Pyrene**	**All Other PAH**	**Acetone**	**Benzene**	**Carbon disulfide**	**Methylene chloride**	**All Other VOCs**
8270SIM	8270SIM	8270SIM	8260B	8260B	8260B	8260B	8260B
(µg/L)	(µg/L)		(µg/L)	(µg/L)	(µg/L)	(µg/L)	
230	**230**	**--**	**--**	**1**	**--**	**5**	**--**
< 0.49	< 0.2	ND	NA	NA	NA	NA	NA
0.02 J	0.02 J	ND	1.5 J	0.2 J	0.1 J	0.3 J	ND
0.01 J	< 0.02 UJ	ND	0.9 J	0.1 J	0.1 J	0.2 J	ND
< 0.5	< 0.2	ND	NA	NA	NA	NA	NA
0.01 J	< 0.01 UJ	ND	1 J	< 0.5	<0.5	0.2 J	ND
0.03	<0.09	ND	0.9 J	<0.5	<0.5	<10	ND
0.09 J	0.05 J	ND	2.6 J	< 0.5	0.1 J	< 0.6	ND

es, Presidio of San Francisco, California (MACTEC, 2004).

Table A-17-5
Groundwater Elevation Summary
Baker Beach Disturbed Areas 1 and 2A
Presidio of San Francisco, California

Location ID	Date	Average Depth to Water [1] (feet)	Top of Casing Elevation (feet PLLW)	Water Elevation (feet PLLW)	Well Type
BB1PZ100	05/22/06	3.28	107.48	104.20	PZ
	02/01/06	3.48	107.48	104.00	PZ
BB1PZ101	05/22/06	4.52	68.36	63.84	PZ
	02/01/06	4.63	68.36	63.73	PZ
BB2ASW100	05/22/06	Dry	28.69	NM	SW
	02/01/06	Flowing	28.69	28.69	SW

Notes
1 - All depth to water measurements are an average of three measurements recorded in the field.
SW - Seep
PZ - Piezometer
NM - not measured
feet PLLW - feet above Presidio lower low water vertical datum



N

120 0 120 Feet

LEGEND

BB1PZ100 104.20	Piezometer May 2006 Fresh Water Seep Elevation
BB2ASW100 Dry	Approximate Fresh Water Sample Location May 2006 Fresh Water Elevation
	Groundwater Basin Boundary
	Topographic Contour (Contour Interval : 5 ft)
	Presidio Base map
	Approximate Lateral Extent of Landfill
	Building

Notes:
Fresh water seep elevation data collected 22 May 2006.

Base map provided by the Presidio Trust in June 2003.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW)
(topography) North American Vertical Datum, NAVD88

BAKER BEACH DISTURBED AREAS 1 AND 2
SITE PLAN AND 22 MAY 2006
FRESH WATER SEEP ELEVATION MAP

Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315
October 2006

FIGURE A-17-1

Treadwell & Rollo 2893_04\Q2_2006\A_17.APR 10/2006

APPENDIX B
Calibration Forms

First Quarter 2006

Field Instrument Calibration Log

Major Work Order No.: 2093 Presidio

Project Name: 2593

Instrument Type	Instrument SN	Calibration Type	Date	By
YSI 556	05K1406AE	DO → 98.5 → 100%	3/9/06	BS
		pH: 6.86 → 7.00		
		pH: 4.03 → 4.00		
		Cond. 4175 → 3900 µs		
	ORP @	15°C · 242.7 → 244.0		
YSI 556	05C1520AK	DO → 98.5 → 100%	3/20/06	PC
		pH: 7.09 → 7.00		
		pH: 4.19 → 4.00		
		pH: 10.11 → 10.00		
		Cond: 3859 → 3900 µS		
	ORP @	15°C : 242.7 → 244		
Hach Turbidimeter	02010002 5008	439 reading → 430		
		459 → 451		
		5 → 6		
Myron L Ultrameter	607197	4.0 pH → 4.09	3/20/06	P. Cornish
		7.0 → 7.03	3/20/06	
		10.0 → 9.99		
		3900 µS → 3890		
Hach Turbidimeter	02010002 5008	20 NTU → 18.3		
		100 → 97.6		
		800 → 770		
YSI DO Meter	03C0684AA	→ 100% →		
Orion ORP	7555			
↳ Buffer table calls for 250.5 mV @ 10C°				
Myron L Reads 11.5°C, 238 mV				

Field Instrument Calibration Log

Major Work Order No.: 2893

Project Name: S.F. Presidio

Instrument Type	Instrument SN	Calibration Type	Date	By
Myron L Ultrameter	607197	pH 4.0 → 4.02	3/13/06	R. Cornish
		7.0 7.01		
		10.0 10.00		
YSI Meter SN 03C00684AA		DO → 100% → 101.1 / µS 3900 3890		
Hach Turbidimeter	01110002451	NTU 800 → 780		
		100 → 105		
		20 → 19		
Myron L Ultrameter	607197	pH 4.0 → 4.01	3/14/06	R. Cornish
		7.0 → 7.02		
		10.0 → 10.08		
		µS 3900 → 3860		
Hach Turbidimeter	01110002451	NTU 800 → 790		
		100 → 106		
		20 → 19		
YSI DO meter	03C00684AA	→ 100% → 109.1%		
Myron L Ultrameter	~~607285~~ 608511	pH 4.0 → 3.84	3/15/06	R. Cornish
		7.0 → 7.12		
		10.0 → 9.82		
		µS 3900 3801		
YSI DO Meter	03C00684AA	→ 100% 96.5		
Hach Turbidimeter	01110002451	NTU 800 → 792		
		100 → 101		
		20 → 19		
Orion ORP Indicator	004949	→ w/ Myron L Ultrameter		
		261 mV @ 8.9 C°	* ORP Buffer table indicates	
				250.5 mV @ 10C

Field Instrument Calibration Log

Major Work Order No.: 2893

Project Name: Presidio, SF

Instrument Type	Instrument SN	Calibration Type	Date	By	Reading	C° Temp
YSI 556 Flowcell	05C1520Ak	4.0 pH → 3.91 buffer	3/7/06	P. Cornish		14.1
		7.0 → 6.52				14.0
		10.0 → 9.63				14.6
		3900 µS				15.0
	DO → 100%	232 ORP				14.1
Turbidimeter	02010002 5008	480 NTU standard				
		439 " "				
		45 " "				
		5 " "				
YSI 556 Flowcell	05C1520Ak	4.0 pH buffer	3/8/06	P. Cornish	Reading	C° Temp
		7.0 pH "			4.11	14.0
		10.0 pH "			7.09	13.8
		3900 µS "			10.09	13.8
		DO → 100% standard			3886	13.9
		ORP 244 mV buffer @ 15.0C°			97.9%	14.5
						13.9
Hach Turbidimeter	02010002 5008	NTU - 439 standard			431	-
		459 "			460	-
		5 "			5.1	-
YSI 556 Flowcell	05C1520Ak	4.0 pH buffer	3/9/06	P. Cornish	Reading	Temp
		7.0			4.15	14.5
		10.0			7.09	14.6
		3900 µS			10.01	15.2
		ORP 244 mV @ 15.0C°			3963	13.5
		DO → 100%			245.6	12.93
Hach Turbidimeter	02010002 5008	439 standard			96.9%	14.1
		459			430	
		5			450	
					5.5	

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME: Presidio @ SF				PROJECT NUMBER 060306-MD1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
Myron L Ultrameter	607197	3/16/06 805	4.0 pH 7.0	3.92 6.91	Y	12.9 12.5	PC
			10.0 µ3900	9.95 3792		12.0 11.7	
Hach Turbidimeter	020100025008	812	48.4 5.37	50.1 54.2	Y		
			483	452			
YSI DOmeter	03C0684AA	810	→100 %	97.5%	Y	16.2	
Orion ORP Indicator →	7555 Buffer → ~~20~~	3/16/06 830 250.5mV @ 10°C	Myron L Reads	235mV 256 mV w/Buffer @	Y 12°C		
Myron L Ultrameter	607197	3/17/06 800	4.0 pH 7.0	3.98 6.98	Y	10.6 10.1	PC
			10.0 3900µS	9.99 3902		10.5 11.0	
Hach Turbidimeter	020100025008	3/17/06 812	484 47.4	474 46.5			
			5.75	5.30			
YSI DOmeter	03C4684AA	3/17 815	→100%				

Orion ORP SN 7555 Buffer calibrator ~~20~~ 250.5 mV @ 10°C Reading 224 mV myron → Myron L Reads 207 @ 11.5°C

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME Presidio @ SF				PROJECT NUMBER 060306-MD1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
VSI DOMETER	05L1042AB	3/17/06 1505	100%	98.6%	Y Downhole Reading 0.13	14.6°C	PC
	03L0684AA			98.5%	Y 0.20	14.9	PC
	04B0822AC			~~98.9~~ 100.1%	Y 0.33	15.4 ~~15.4~~	PC
	⇒ 3/17/06 Dometer Calibration						

TEST EQUIPMENT CALIBRATION LOG

2893

PROJECT NAME Presidio				PROJECT NUMBER 030606-MD1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
Slope indicator ~~odwell~~	25365	3/6/06	Peter Cornish	4.48			
9376N32A	25280		John DeJong	4.46			
	25363		Dave Albut	4.45			
	54		Mike Toll	4.40			
Orion ORP	3533	3/7/06 0830		232		13.3°C	MD
Turbidimeter	01110002451 1		200 100 800	21 102 781	10%		MD
Ultrameter	607197		pH 7 4 10		7.00 4.01	13.3°C	MD
			cond 3900	3877	10.00 10%		M
D.O Meter	05K1546		100%		100%	13.2°C	MD
D.O Meter check	03C0684	3/9/06 1645	Initial zeroed reading 11.14 mg/L	→ 0.19		13.2°C	MD
	05K1546		11.04 mg/L	→ 0.10		13.1°C	

Down hole reading check @ LF 4GW 102

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME	Presidio			PROJECT NUMBER	2893		
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
Turbidimeter	01110002451	3/8/06 0815	20 100 800	21 103 779	10%		MJ
D.O Meter	05K1546		100%		100%	13.4°C	MD
ultrameter	607197		PH < 4 7 10		4.01 7.00 9.99	14.0°C	MJ
			cond. 3900		3902		MD
ORP Meter	3533			231		13.4°C	MJ
D.O Meter	05K1546	3/9/06 0800	100%		100%	13.9°C	MD
ultrameter	607197		PH 4 → 4.00 7 → 6.98 10 → 10.04		10%	13.9°C	MJ
			cond 3900 → 3887		10%		MD
Turbidimeter	01110002451		20 → 22 100 → 101 800 → 785		10%		MD
ORP	3533			232		13.9°C	

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME Presidio				PROJECT NUMBER 2893 / 030606-MD1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
D.O. Meter	05K1546	3/10/06 0840	100%		100%	13.1°C	MD
Turbidity	01110002451 1	3/10/06 0840	20 → 20 100 → 103 800 → 779		10%		MD
ORP	3533	3/10/06 0840		231		13.7°C	MD
Ultrameter	607197	3/10/06 0840	4 → 4.00 pH 7 → 6.98 10 → 10.01 cond. 3900 → 3891		10% ↓	13.5°C ↓	MD

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME	Presidio			PROJECT NUMBER	2893		
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	°C TEMP.	INITIALS
YSI 556	05K 1408	3/15/06 0850	PH 4 7 10		4.01 7.00 9.98	12.1	MM
			DO. 100%		100%		↓
			ORP 241 COND 3900		241 3876	11.8	↓
turbidity	~~[illegible]~~ 01110002451	3/15/06 0850	20 100 800	→ 21 → 99 → 787	10%	—	MM
DO 0350684	0350684	3/15/06 1300	100%		100%	13.3	MM
DO YSI	05L1042	3/16/06 0840	100%		100%	11.7	MM
ultrameter Myron L	602780	3/16/06 0900	4 7	→ 4.03 → 7.00	10%	13.7	MM
			10 3900	-10.0 3880	↓	↓	↓
turbidimeter	01110002451	3/16/06 0900	20 100 800	21 96 787	10%		↓

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME presidio				PROJECT NUMBER 060306-M01 2893			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI DO	05L1042	3/17/06 0850	100%		100%	11.9	MJ
Turbidimeter	0111000245711	3/17/06 0850	20 100 800	22 → 98 → 791	10%	—	MJ
Ultrameter	602780	3/17/06 0850	4 7 pH		4.01 7.00	12.1	MJ
↓	↓	↓	10 cond 3900		10.00 3891	12.0	MJ
ultrameter	601939	3/20/06 0800	4 7	→ →	3.99 6.98 10%	12.1 ↓	MJ ↓
			10 3900	→ →	10.00 3889		
ORP (Orion)	3533	3/20/06 0800	238			11.5	MJ
YSI DO	04B0822	3/20/06 0800	100%		100%	13.2°	MJ
Turbidimeter	0111000245711	3/20/06 0800	20 100 800	→ → →	20 101 769 10%		MJ

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME Presidio				PROJECT NUMBER 2893			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI 556	05K 1408	3/13/06 1110	D.O. 100%		100%	13.4	MD
			pH 4 7 10		4.01 7.00 10.03	11.7	
			cond 3900 ORP 248.0		3897 248.0	11.9°C	
Turbidimeter	020100025008	3/13/06 1110	20→18 100→100 800→796		10%	—	MD
YSI 556	05K 1408	3/14/06 0900	DO 100%		100%	13.1	MD
			pH 4 7 10		4.00 7.01 9.99	11.6	MD
			ORP 248.0		248.0	11.7°C	MD
			Cond 3900		3883	11.9°C	
Turbidimeter	020100025008	3/14/06 1110	20→18 100→100 800→791		10%	—	MD

OK

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME				PROJECT NUMBER			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
Ultrameter	607197	3/21/06 0815	4 7 10	→	4.00 7.01 9.99	11.2	MD
			3900 ORP 246	→	3904		
Turbidimeter	020100025008	3/21/06 0820	20 100 800	→	20 104 786	—	MD
D.O. Meter	03L0684	3/21/06 0825	100%	→	100%	11.9	MD
ORP Probe	7555	3/21/06 0830	unable to get meter working			11.8	MD
			used my own				
D.O Meter	04B0822	3/24/06 0815	100%	—	100%	14.3	MD
Ultrameter	601939		4 7 10	→	4.03 7.01 9.99 10%	6 to 9 16.6	MD
			3900	→	3890 10%	16.6	MD
Turbidimeter	01110002451		20 100 800	→	20 98 773 10%	—	MD

Second Quarter 2006

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME Presidio				PROJECT NUMBER 2893			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
Hach Turbidimeter	SN 0509000 13495	5/23/06 0900	426 50 5	492 57 7	Y	—	DR
"	"	5/24/06 0820	426 50 5	493 56 7	Y	—	DR
"	"	5/25/06 0815	426 50 5	491 57 7	Y	—	DR
Myron L Ultrameter	6 07200	5/23/06 0905	7.00 10.00 4.00 pH / Cond. 3900	7.00 10.00 4.00 / 3900	Y	59.2°F	DR
"	"	5/24/06 0825	7.00 10.00 4.00 pH / Cond 3900	7.01 10.00 4.01 / 3900	Y	14.6°C	DR
"	"	5/25/06 0820	7.00 10.00 4.00 pH / Cond 3900	7.00 10.00 4.00 / 3900	Y	13.0°C	DR
YSI 550 DO	05K1546	5/23/06 0910	→ 100%	104 %	Y	14.2°C	DR
"	"	5/24/06 0830	→ 100 %	105%	Y	14.8°C	DR
"	"	5/25/06 0825	→ 100 %	101 %	Y	12.9°C	DR

Field Instrument Calibration Log

Major Work Order No.: 2893

Project Name: SF, Presidio

Instrument Type	Instrument SN	Calibration Type	Date	By	Temp
YSI 556 Flowcell	05K 1408 AE	DO → 100% → 100.4%	5/23/06	P. Cornish	17.51°C
		7.00 pH → 7.06 pH			17.84
		4.00 pH → 4.01			15.02
		10.00 pH → 9.96			17.79
		3900 µS → 3898			18.02
		ORP 244 mV @ 15C° → 239 mV			17.41
Hach Turbidimeter	02010002 5008	5 NTU → 6.1	5/23/06		–
		466 → 478			–
		50 → 53.5			–
YSI 556 Flowcell	05K 1408 AE	DO → 100% → 99.8	5/24/06	P. Cornish	15.62
		4.0 pH → 4.03 pH			15.01
		7.0 → 7.00			14.90
		10.0 → 10.02			14.34
		3900 µS → 3880 µS			14.32
		ORP 244 mV @ 15C° → 241 mV			14.36
YSI Hach Turbidimeter	02010002 5008	5 NTU → 6.3 NTU			–
		50 → 54.6			–
		466 → 455			–
Myron L Ultrameter	602780	4.0 pH → 3.97 pH	5/25/06	P. Cornish	
		7.0 → 7.12			12.4
		10.0 → 9.92			12.7
		3900 µS → 3902 µS			13.0
YSI DO Meter	04E 8408 AE	→ 100% → 100.6%			14.1
Hach Turbidimeter	02010002 5008	5 NTU → 5.9 NTU			–
		50 → 54.2			–
		466 → 496			–

Field Instrument Calibration Log

Major Work Order No.: 060522 - MD1

Project Name: Presidio

Instrument Type	Instrument SN	Calibration Type	Date	By
Slope Meter		DTW		
on 937GW38	15407	4.60	5/22/06	Scott S.
	25363	4.75		Dave A
	25365	4.70		Pete
	20788	4.68		John
	26138	4.66		Devin
5/23/06 Ultrameter	602780	4 - 4.03 7 - 7.00 10 - 9.93 3900 - 3876	5/23/06	18.5°C MD
turbidimeter	021100028998	54 - 52 535 → 529 5.5 → 5.4		
YSI 550	04E8408	100% → 100%	5/23/06	13.9°C
DO.				
ORP	ISE.01	Reading 225.9	5/23/06	17.5°C
		@ 17.5°C		
5/24/06 Ultrameter	602780	4 → 4.03 pH 7 → 7.01 10 → 9.97 3900 → 3886	10% 5/24/06	17.1°C MD 0750
turbidimeter	021100028998	54 → 52 535 → 527 5.5 → 5.2	10% 5/24/06	MD
YSI 550 (D.O.)	04E8408	100% → 100%	5/24/06	15.3 MD 0755
ORP	ISE.01	220	5/24/06	24.9 MD 0840
5/25/06 YSI 556	05K1408	DO 100% 100% pH 4 4.02 7 7.01 10 10.00 cond 3900 3904 ORP 246 246.8 STD calb to	5/25/06	14.5°C MD MD
Hrb.	021100028998	54 → 53 5.5 → 5.1 535 → 528	10%	

Form 5 - Field Inst. Calibration Log.xls

APPENDIX C
Groundwater Level Measurement Logs

First Quarter 2006

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
LF10GW03	930	37.75	37.74	37.74		–	F	G	G	N	Y	N	
LF10GW100	940	38.29	38.29	38.29		–	F	G	G	Y	Y	N	
LF08PZ02	950	23.29	23.29	23.29		–	F	D	D	Y	Y	N	both tabs broken
LF08PZ01	956	9.25	9.22	9.22		–	F	D	S	Y	Y	N	under pressure
LF08GW01	1004	15.34	15.34	15.34		–	S	S	S	Y	N	N	
LF08GW06	1010	15.12	15.12	15.12		–	S	S	S	Y	Y No Gap/Lock	N	
LF08GW03	1016	35.32	35.30	35.32		–	S	G	S	N	N	N	
LF08GW08B	1020	49.58	49.58	49.58		–	S	G	G	N	N	N	
LF08GW04	1024	31.09	31.09	31.09		–	S	G	S	Y	Y	N	
NKGW05	1040	20.23	20.23	20.23		–	F	G	G	Y	Y	N	
NKGW01	1046	26.80	26.80	26.80		–	F	D	S	N	Y	N	2/2 bolts missing
NKGW02	1104	10.02	10.02	10.02		–	F	D	G	N	Y	N	2/2 tabs broken
NKGW03	1110	13.85	13.85	13.85		–	S	G	S	N	Y	N	
LF10GW01	1145	5.45	5.45	5.45		–	S	G	G	Y	Y	Y	
LF10GW02	1200	2.89	2.89	2.89		–	S	G	G	Y	Y	Y	
LF08PZ01	1212	Running				–	F						
MW100	1230	22.83	22.83	22.83		–	F	G	G	Y	Y	Mud Pile moved off	

Date: 3/6/06

Page No.: 1

Consultant:

Field Staff: D. Cornish

Field Staff Signature: [signature]

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TREADWELL & ROLLO

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
610GW103	1255	3.51	3.51	3.51		–	F	G	G	Y	Y	N	
610SP01	1258	Running - Flooded											
610SP02	1300	"		"									
600GW105	1308	3.48	3.48	3.48		–	S	G	G	Y	Y	N	
600GW106	1314	3.34	3.34	3.34		–	S	G	G	Y	Y	N	
600GW107	1318	3.29	3.29	3.29		–	F	G	G	Y	Y	N	
600GW108	1325	3.46	3.46	3.46		–	F	G	G	N	Y	N	
600GW109	1330	3.40	3.40	3.40		–	F	G	G	Y	Y	N	
HWGW101	1405	24.40	24.40	24.40		–	F	G	G	N	Y	N	
1213GW101	1412	22.01	22.01	22.01		–	F	G	G	Y	Y	N	
BHWGW04	1420	12.88	12.88	12.88		–	F	S	S	N	Y	N	1/2 tabs stripped
BHWGW05	1425	27.58	27.58	27.58		–	F	S	S	N	Y	N	2/2 tabs stripped
BHWGW01	1436	15.19	15.19	15.19		–	F	S	S	N	Y	N	2/2 " "
HWGW102	1445	Drywell TD > 35.80				–	F	G	G	N	Y	N	1/2 tabs broken
1260GW101	1500	10.24	10.24	10.24		–	F	G	G	Y	Y	N	
1260GW102	1504	21.15	21.15	21.15									
1260GW103	1508	25.15	25.15	25.15									

Date: 3/6/06

Page No.:

Consultant:

Field Staff: P. Cornish

Field Staff Signature:

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
1221GW103	1522	10.20	10.20	10.20		-	F	G	G	Y	Y	N	
1221GW101	1528	10.28	10.28	10.28		-	F	G	G	Y	Y	N	
1221GW102	1558	6.80	6.80	6.80		-	F	G	G	Y	Y	N	
1221GW104	1606	12.00	12.00	12.00		-	F	G	G	Y	Y	N	
LF6PZ104	1654	6.82	6.82	6.82		-	stick	up PVC 2"		stand	alone	w/screwcap	
LF6PZ103	1657	2.70	2.70	2.70		-	"	"	"	"	"	"	"
LF6PZ102	~~1500~~ 1700	0.00	0.00	0.00		-	"	"	"	"	"	"	"
LF6PZ106	1702	4.45	4.45	4.45		-	"	"	"	"	"	"	"

Date: 3/6/06

Page No.:

Consultant:

Field Staff: D. Cornish

Field Staff Signature: [illegible]

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
2076W03	0910	3.45	3.45	3.45			F	G	G	Y	Y	N	
2316W10	0917	2.96	2.96	2.96			F	G	G	N	Y	N	
2316W23	0921	2.87	2.87	2.87			F	G	G	Y	Y	N	
2316W30	0928	5.10	5.10	5.10			F	G	G	Y	Y	N	
2316W13	0931	2.15	2.15	2.15			S	G	G	N	Y	N	
2316W15	0933	3.38	3.38	3.38			F	G	G	N	Y	N	
2316W16	0936	5.53	5.53	5.53			F	G	G	Y	Y	N	
2316W24	0944	3.35	3.35	3.35			F	G	G	N	Y	N	
2316W17	0949	0.98	0.98	0.98			F	G	G	Y	Y	N	
2316W18	0953	2.09	2.09	2.09			F	G	G	Y	Y	N	
2316W19	0956	2.93	2.93	2.93			F	G	G	Y	Y	N	
2316W27	1001	9.97	9.97	9.97			F	G	G	N	Y	N	
2316W09	1008	12.60	12.60	12.60			F	G	G	Y	Y	N	
2316W28	1011	3.28	3.28	3.28			F	G	G	Y	Y	N	
2316W29	1016	2.24	2.24	2.24			F	G	G	Y	Y	N	
231PZ01	1020	5.88	5.88	5.88			F	G	G	Y	Y	N	odor
231PZ02	1022	5.40	5.40	5.40			F	G	G	Y	Y	N	

Date: 3/14/06

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Consultant: T+R

Field Staff: David Albert

Field Staff Signature: David Albert

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
2316W26	1030	6.51	6.51	6.51			F	G	G	Y	Y	N	
2316W22	1033	6.44	6.44	6.44			F	G	G	Y	Y	N	Odor
231PZ04	1038	4.57	4.57	4.57			F	G	G	Y	Y	N	Odor
231PZ03	1040	4.92	4.92	4.92			F	G	G	Y	Y	N	Odor
2316W11	1046	2.35	2.35	2.35			F	G	G	Y	Y	N	
2316W06	1051	4.43	4.43	4.43			F	G	G	Y	Y	N	
2316W21	1054	5.20	5.20	5.20			F	G	G	Y	Y	N	
2316W20	1057	1.65	1.65	1.65			F	G	G	Y	Y	N	Odor
* ~~2316W30~~	~~1130~~	—	—	—			F	G	G	Y	Y	N	
OW-1	1140	1.97	1.97	1.97			—	—	—	—	—	—	~~unable to gauge - in puddle~~
2316W25	1147	3.49	3.49	3.49			F	G	G	N	Y	N	
1065PZ1A	1152	5.33	5.33	5.33			F	G	G	N	Y	N	
1065PZ1B	1155	0.68	0.68	0.68			F	G	G	Y	Y	N	
1065PZ2B	1202	1.05	1.05	1.05			F	G	G	Y	Y	N	
1065PZ2A	1205	3.12	3.12	3.12			S	G	G	N	Y	N	
1065MW9A	1214	2.98	2.98	2.98			F	G	G	Y	Y	N	
1065MW9B	1219	0.00	0.00	0.00			F	G	G	N	Y	N	
							F	G	G	Y	Y	N	

Date: 3/14/06

Page No.: 2/4

Consultant: JTR

Field Staff: David Albert

Field Staff Signature: David Albert

* ~~Covered by large puddle~~

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition: (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
9376W107	1234	10.08	10.08	10.08			F	G	G	Y	Y	N	
9376W106	1237	8.53	8.53	8.53			F	G	G	Y	Y	N	
9796W112	1240	14.73	14.73	14.73			F	G	G	Y	Y	N	
9796W111R	1243	14.68	14.68	14.68			F	G	G	Y	Y	N	
9796W117	1247	7.96	7.96	7.96			F	G	G	Y	Y	N	
9796W116	1250	7.40	7.40	7.40			F	G	G	Y	Y	N	
9796W115	1253	7.45	7.45	7.45			F	G	G	Y	Y	N	
9796W113	1257	6.10	6.10	6.10			F	G	G	Y	Y	N	
9796W114	1259	6.34	6.34	6.34			F	G	G	Y	Y	N	
9796W109	1303	5.39	5.39	5.39			F	G	G	Y	Y	N	
9796W110	1305	6.50	6.50	6.50			F	G	G	Y	Y	N	
9376W35	1310	5.04	5.04	5.04			F	G	G	Y	Y	N	
9506W108	1313	6.78	6.78	6.78			F	G	G	Y	Y	N	
9376W39	1316	6.88	6.88	6.88			F	G	G	Y	Y	N	
9376W104	1318	4.55	4.55	4.55			F	G	G	N	Y	N	
9376W105	1321	6.21	6.21	6.21			F	G	G	Y	Y	N	
9376W06	1350	4.53	4.53	4.53			F	G	G	Y	Y	N	

Date: 3/14/06

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Consultant: TTR

Field Staff: David Aubert

Field Staff Signature: David Aubert

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
DAEGW102	1409	17.01	17.01	17.01			F	G	G	N	Y	N	
DAEGW104	1415	18.83	18.83	18.83			S	G	G	N	Y	N	
DAEGW06	1412	11.71	11.71	11.71			S	G	G	N	Y	N	
DAEPZ101	1425	22.14	22.14	22.14			F	G	G	N	Y	N	
DAEGW103	1430	29.43	29.43	29.43			F	G	G	N	Y	N	
DAEPZ102	1441	28.30	28.30	28.30			F	G	G	N	Y	N	
DAEGW03	1435	55.38	55.38	55.38			F	G	G	N	Y	N	
DAEGW101	1447	34.42	34.42	34.42			S	G	G	N	Y	N	
DAEGW05	1450	54.00	54.00	54.00			S	G	G	N	Y	N	
DAESP03	1453	–	–	–			–	–	–	–	–	–	Spring is running
DAEGW07	1600	1.75	1.75	1.75			S	G	G	N	Y	N	
DAEGW08	1603	20.34	20.34	20.34			S	G	G	N	Y	N	
DAEGW04	1608	43.54	43.54	43.54			F	G	G	N	Y	N	
TH-4	1622	0.56	0.56	0.56			F	G	G	N	Y	N	
939GW32R	1400	4.45	4.45	4.45			F	G	G	N	Y	N	

Date: 3/14/06
Page No.: 4/4

Consultant: T+R
Field Staff: David Allbit
Field Staff Signature: David Allbit

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
10GW100	1019	43.49	43.49	43.49	4	—	F	G	G	N	Y	N	
UBL01GW01	—	—	—	—	—	—	—	—	—	—	—	—	Buried under Gravel
LF6GW106	1013	9.72	9.72	9.72		—	F	G	G	Y	N	N	No Lock
1065P24A	1020	4.90	4.90	4.90		—	F	G	G	Y	Y	N	
1065P24B	1023	2.11	2.11	2.11		—	F	G	G	N	Y	N	
1065P27A	1029	2.80	2.80	2.80		—	F	S	S	Y	Y	N	Bolts won't Bolt down
1065P27B	1032	2.55	2.55	2.55		—	F	S	G	Y	Y	N	" " " Lid
LF6GW103	1038	7.09	7.09	7.09		—	F	G	G	N	N	N	
LF6GW105	1045	21.70	21.70	21.70		—	F	G	G	N	Y	N	Dolphin Lock
LF6GW104	1054	9.23	9.23	9.23		—	F	G	S	N	N	N	Needs 2" Cap & Lock
1027MW03	1058	8.30	8.30	8.30		—	F	G	G	N	N	N	
1027MW01	1105	8.16	8.16	8.16		—	F	G	G	N	N	N	Needs a Lock
~~1065P23A~~	~~1110~~	~~8.75~~	~~8.75~~	~~8.75~~		—	F	G	G	Y	Y	N	
~~1065P23B~~	~~1113~~	~~8.75~~	~~8.75~~	~~8.75~~		—	F	G	G	Y	Y	N	
1065MW11A	1120	8.04	8.04	8.04		—	F	G	G	Y	Y	N	
1065MW11B	1122	8.10	8.10	8.10		—	F	G	G	Y	Y	N	
LF6GW101	1135	11.13	11.13	11.13		—	F	G	G	N	Y	N	

Date: 3/10/09

Page No.: 1 of 4

Consultant: BTS

Field Staff: Mike Toll

Field Staff Signature: [signature]

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
1065PZ6A	1140	—	—	—									Buried under BARK &
1065PZ6B	1155	—	—	—									" " " dirt
LF6GW100	1200	12.02	12.02	12.02		—	F	G	G	Y	Y	N	
1047MW101	1205	3.82	3.82	3.82		—	F	G	G	N	Y	N	
~~1065MW108~~	~~1207~~	~~2.89~~	~~2.89~~	~~2.89~~		—	F	G	G	N	Y	N	
1065MW10 ~~1065PZ5A~~	~~1210~~	~~3.55~~	~~3.55~~	~~3.55~~		—	F	G	G	N	Y	N	
1065PZ5AR	1213	2.93	2.93	2.93		—	F	G	G	N	Y	N	
1065PZ5B	1215	2.00	2.00	2.00		—	F	G	G	N	Y	N	
1065MW101	1217	5.55	5.55	5.55		—	F	G	G	N	Y	N	
1065MW102	1220	3.80	3.80	3.80		—	F	G	G	N	Y	N	
937GW108	1235	4.07	4.07	4.07		—	F	G	G	Y	Y	N	
937GW38	1239	4.00	4.00	4.00		—	F	G	G	Y	Y	N	
937GW12	1241	2.30	2.30	2.30		—	F	G	G	N	Y	N	
937GW15	1245	6.06	6.06	6.06		—	S	G	G	N	Y	N	
937GW37	1249	5.93	5.93	5.93		—	S	G	G	N	Y	N	
937GW07	1252	7.62	7.62	7.62		—	S	G	G	N	Y	N	
937GW101	1255	5.33	5.33	5.33		—	F	G	G	N	Y	N	

Date: 3/6/06

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Consultant: BTB

Field Staff: Mike Ted

Field Staff Signature: [illegible]

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
937GW102	1300	5.43	5.43	5.43		—	F	G	G	N	Y	N	
937GW103	1304	5.50	5.50	5.50		—	F	G	G	N	Y	N	
937GW42	1345	4.90	4.90	4.90		—	F	G	G	N	Y	N	
LF02GW04	1410	14.78	14.78	14.78		—	S	G	G	N	Y	N	
UBR02GW01	1419	8.80	8.80	8.80		—	F	G	G	N	Y	N	
UBR02GW02	1421	9.00	9.00	9.00		—	F	G	G	N	Y	N	
UBR03GW01	1434	33.51	33.51	33.51		—	F	G	G	N	Y	Y	
UBR03GW02	1432	15.28	15.28	15.28		—	F	G	G	N	Y	Y	
LF01GW04	1442	55.18	55.18	55.18		—	S	G	G	N	Y	N	
LF01GW07	1445	55.74	55.74	55.74		—	S	G	G	N	N	N	Needs a Lock
LF01GW03	1448	48.20	48.20	48.20		—	S	G	G	N	N	N	Needs a Lock
~~LF01GW00~~	~~1500~~	~~58.90~~	~~58.90~~	~~58.90~~		~~—~~	~~F~~	~~G~~	~~G~~	~~N~~	~~Y~~	~~N~~	
LF01GW05	1555	8.82	8.82	8.82		—	F	G	G	N	Y	N	
LF01GW02	1600	26.00	26.00	26.00		—	S	G	G	N	Y	N	
LF01GW01	1602	3.17	3.17	3.17		—	S	G	G	N	Y	N	
LF02GW02	1605	1.31	1.31	1.31		—	F	G	G	N	Y	N	
LF02GW01	1610	2.80	2.80	2.80		—	F	G	G	Y	N	N	Needs Lock & 2 bolts

Date: 3/16/16

Page No.: 3 of 4

Consultant: BB

Field Staff: MMTD

Field Staff Signature: [signature]

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
EPSP01	1435												Flowing
LF01GW010	1500	50.80	50.80	50.80			G	G	G	N	Y	N	
LF6PZ101	1650	0.90	0.90	0.90			S	G	G	N	N	N	
LF6PZ105	1655	0.67	0.67	0.67			S	G	G	N	N	N	
1065MW01DA	~~1207~~ 1210	2.89	2.89	2.89			F	G	G	N	Y	N	
1065MW01DB	1207	3.55	3.55	3.55			F	G	G	N	Y	N	
1065PZ3A	1110	8.75	8.75	8.75			F	G	G	N	Y	N	
1065PZ3B	1113	8.75	8.75	8.75			F	G	G	N	Y	N	

Date: 3/6/06

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Consultant: BTS

Field Staff: Mike Dill

Field Staff Signature: [illegible]

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
~~BB3P~~ BB3SW100	0918	ND 6.15 Running					N/A					N/A	
BB3P2102	0919	6.15	6.15	6.15			S	N/A	N/A	N	Y	N	
BB3SW100	0923	3.04	3.04	3.04			S	N/A		N	Y	N	
BB3SW101	0925	1.94	1.94	1.94			S				Y	N	
BB3SW102	0928	2.00	2.00	2.00			S				Y	N	
BB3P2101	0931	17.32	17.32	17.32			S				Y	N	
BB3GW101	0938	26.68	26.68	26.67			S	G	G	Y	N	N	No lock
BB3GW100	0942	24.85	24.84	24.85			S	G	G	Y	Y	N	
LF5SP100	0950	running					N/A	N/A	N/A	N/A	N/A	N/A	
LF5GW101	0952	4.58	4.58	4.59			F	G	G	Y	Y	N	ND ~~[illegible]~~
LF5GW100	0955	6.27	6.27	6.27			F	G	G	Y	Y	N	
1349 MW101	1023	24.59	24.59	24.59			F	G	G	Y	Y	N	pressure-let stabalize ~ 10min
1349 MW 03R	1008	22.56	22.57	22.56			S	G	G	Y	N	N	No cap
LF5GW104	1018	16.54	16.52	16.52			S	G	G	Y	Y	N	let stabalize ~10min
LF5GW103	1020	8.49	8.49	8.49			S	G	G	Y	Y	N	↓ ↓ ↓
LF5GW102	1021	27.58	27.57	27.57			S	G	G	Y	Y	N	↓ ↓ ↓
1349 MW102	1036	19.66	19.66	19.66			F	G	G	N	Y	N	↓ ↓ ↓

Date: 3/6/06

Page No.:

Consultant: ~~Treadwell & Rollo~~ ND Blaine tech

Field Staff: John DeJong

Field Staff Signature: John DeJong

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
1349 MW01	1041	23.24	23.25	23.25			F	G	G	Y	Y	N	
1349 MW104	1044	29.33	29.33	29.33			S	G	G	Y	Y	N	
1349 MW105	1047	27.95	27.94	27.94			S	D	G	Y	N	N	No lock
1349 MW103	1049	32.97	32.97	32.97			S	G	G	Y	Y	N	
1349 MW02	1052	27.87	27.87	27.87			F	G	G	Y	Y	N	
1349 MW100	1058	25.73	25.73	25.73			F	G	G	Y	Y	N	
NKGW04	1206	5.97	5.97	5.97			F	S	S	Y	Y	N	No Bolts
1FHGW100	1223	21.21	21.21	21.21			S	G	G	N	Y	N	TOC to ground = 2.04
~~GGGW101~~	~~1244~~	~~1.95~~	~~1.95~~	~~1.95~~			~~F~~	~~G~~	~~G~~	~~Y~~	~~Y~~	~~N~~	ND
~~GGGW102~~	~~1245~~	~~2.44~~	~~2.44~~	~~2.44~~			~~F~~	~~G~~	~~G~~	~~Y~~	~~Y~~	~~N~~	ND
600GW101	1251	3.25	3.25	3.25			F	G	G	Y	Y	N	
600GW102	1256	3.14	3.14	3.14			F	G	G	Y	Y	N	
600GW103	1301	2.47	2.46	2.46			F	G	G	N	Y	N	
600GW104	1305	2.24	2.24	2.24			F	G	G	Y	Y	N	
~~651MW01~~	~~1403~~	~~7.05~~	~~7.05~~	~~7.05~~			~~F~~	~~G~~	~~G~~	~~N~~	~~Y~~	~~N~~	ND
~~651MW02~~	~~1406~~	~~6.95~~	~~6.95~~	~~6.95~~			~~F~~	~~G~~	~~G~~	~~N~~	~~Y~~	~~N~~	ND
LFHGW101	1418	15.2	15.27	15.27			S	G	G	N	Y	N	TOC to ground = 3.94

Date: 3/6/06

Page No.:

Consultant: Blaine Tech

Field Staff: John DeJong

Field Staff Signature: [signature]

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
LF4GW103	1425	21.33	21.33	21.33			S	G	G	Y	N	N	No lock
LF4GW106	1426	13.54	13.54	13.54			S	G	G	Y	Y	N	
LF4GW104	1430	18.45	18.44	18.45			S	G	G	N	Y	N	
LF4GW105	1432	31.05	31.05	31.05			S	G	G	N	N	N	No Lock
LF4GW03	1434	14.40	14.40	14.40			S	G	G	N	N	N	No lock Missing 2.25
DG4GW100	1530	37.23	37.23	37.23			F	G	G	N	Y	N	
610GW101	1244	1.95	1.95	1.95			F	G	G	Y	Y	N	
610GW102	1245	2.44	2.44	2.44			F	G	G	Y	Y	N	
TH-1	1548	15.48	15.48	15.47			F	G	G	Y	Y	N	
TH-2	1542	55.06	55.06	55.06			F	D	G	Y	Y	N	1 of 3 Bolts missing, cracked casing
TH-3	1600	9.67	9.67	9.67			F	D	G	Y	Y	N	1 of 3 Bolts Missing
514GW101	1647	20.23	20.23	20.23			F	G	G	N	Y	N	let well stabilize 15min
FMI4EX07MW102	1622	24.11	24.11	24.11			F	G	G	N	Y	N	↓ ↓ ↓ ↓
FMI4EX07MW101	1620	23.91	23.90	23.90			F	G	G	N	Y	N	
LF4GW102	1737	23.24	23.24	23.24			F	G	G	N	Y	N	

Date: 3/6/06
Page No.: 3 of 3

Consultant: Blaine Tech
Field Staff: John DeJong
Field Staff Signature: [signature]

Second Quarter 2006

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
600GW101	1449	4.09	4.09	4.09			F	G	G	Y	N	N	lock Broken
600GW102	1453	3.71	3.71	3.71			F	G	G	Y	Y	N	
600GW103	1456	3.23	3.23	3.23			F	G	G	Y	Y	N	
600GW104	1502	3.58	3.58	3.58			F	G	G	Y	Y	N	
937GW12	1514	6.63	6.63	6.63			F	G	G	N	Y	N	
937GW38	1525	4.68	4.68	4.68			F	G	G	Y	Y	N	
610SP01	1505	Running											
610SP02	1508	Running											
TH-4	1310	0.15	0.15	0.15			F	G	G	N	Y	N	
1FGGW03	1624	7.15	7.15	7.15			F	G	G	N	Y	N	

Date: 5/22/06

Page No.:

Consultant:

Field Staff:

Field Staff Signature:

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
LF4GW104	1137	13.99	13.99	13.99			S	G	G	~~Y~~ N	N	Y	No lock & Underpressure - waited 15 min
LF4GW103	1145	17.34	17.33	17.33			S	G	G	~~Y~~ N	Y	N	Underpressure - waited 15 min
LF4GW100	1150	16.05	16.05	16.05			S	G	G	N	Y	N	↓ ↓ ↓ ↓
LF4GW106	1153	8.91	8.91	8.91			S	G	G	N	Y	N	
LF4GW102	1205	17.12	17.11	17.11			F	G	G	N	Y	N	
1349MW109	1209	19.48	19.51	19.51			F	G	G	N	Y	N	
1349MW03R	1215	20.40	20.40	20.40			S	G	G	N	N	N	replaced CAP
LF5GW104	1219	17.30	17.30	17.30			S	G	G	N	Y	N	
LF5GW103	1223	6.24	6.24	6.23			S	G	G	N	Y	N	
LF5GW102	1227	23.49	23.49	23.49			S	G	G	N	Y	N	
~~LF5~~ 1349MW01	1231	21.55	21.54	21.54			F	G	G	Y	Y	N	
1349MW104	1237	24.50	24.50	24.50			S	G	G	N	Y	N	
1349MW105	1240	24.61	24.61	24.60			S	D	D	N	Y	N	Box Broken
1349MW103	1248	30.58	30.57	30.57			S	G	G	N	Y	N	
1349MW02	1250	23.43	23.43	23.43			F	G	G	Y	Y	N	
1349MW102	1253	15.12	15.12	15.12			P	G	G	N	Y	N	
1349MW100	1300	22.81	22.80	22.79			F	G	G	~~Y~~ N	Y	N	

Date: 5/22/06

Page No.:

Consultant: T+R

Field Staff: John DeJong

Field Staff Signature: [signature]

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GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water in Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
BB3GW100	1307	25.40	25.40	25.40			S	G	G	N	Y	N	
BB3PZ101	1310	Dry	→	→		18.00	S	N/A	N/A	N/A	Y	N	Dolphin lock
BB3SW102	1313	1.93	1.93	1.93			S	N/A	→	→	Y	N	Dolphin lock
BB3SW101	1316	2.36	2.36	2.36			S	N/A	→	→	Y	N	" "
BB3PZ102	1319	Dry	→	→		7.02	S	N/A	→	→	Y	N	" "
BB3SW100	1322	3.96	3.96	3.96			S	N/A	→	→	Y	N	" "
BB3SW104	1323	running											
BB3GW101	1326	26.05	26.05	26.05			S	G	G	Y	Y	N	lock replaced
LF5SW100	1331	Not running											
LF5GW100	1338	8.54	8.54	8.54			F	G	G	Y	Y	N	
LF5GW101	1342	5.14	5.14	5.14			F	G	G	Y	Y	N	
1260GW103	1359	21.64	21.64	21.64			S	G	G	N	Y	N	
1260GW102	1409	19.50	19.49	19.49			S	G	G	N	Y	N	
1260GW101	1418	6.46	6.46	6.46			F	G	G	N	Y	N	
514AGW101	1428	20.10	20.09	20.09			F	G	G	N	Y	N	
610GW101	1438	2.97	2.97	2.97			F	G	G	Y	Y	N	
610GW103	1442	4.46	4.46	4.46			F	G	G	Y	Y	N	

Date: 5/22/06

Page No.:

Consultant: FFR

Field Staff: John DeJong

Field Staff Signature: Joe DeJong

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GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water in Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
BB1PZ101	0928	4.53	4.52	4.51			S	G	G	N	N	N	- Lock Broken - Bailrin
BB1PZ100	0933	3.28	3.28	3.28			S	G	G	N	N	N	← well - removed (100 & 101)
BB2ASW100	0945	Dry - Not running											
1213GW101	1024	18.35	18.34	18.34			F	G	G	Y	Y	N	
HNGW100	1032	19.71	19.71	19.71			F	G	G	N	Y	N	
HNGW101	1036	22.52	22.52	22.52			F	G	G	N	Y	N	
HNGW102	1042	DRY →				35.80	G	D	G	N	Y	N	1 of 2 tabs Broken
BHNGW005	1044	27.85	27.84	27.85			F	G	G	N	Y	N	
BHNGW004	1049	10.99	10.99	10.99			F	G	S	N	Y	N	Box Filled w/Dirt
BHNGW001	1059	17.39	17.39	17.39			F	G	G	N	Y	N	
1221GW102	1105	7.86	7.86	7.86			F	G	G	N	Y	N	
1221GW103	1108	9.68	9.67	9.68			F	G	G	N	Y	N	
1221GW104	1111	12.46	12.47	12.47			F	G	G	N	Y	N	
1221GW101	1114	6.92	6.92	6.92			F	G	G	Y	Y	N	
LF04GW03	1128	13.81	13.81	13.81			S	G	G	N	Y	N	
LF4GW105	1133	25.11	25.11	25.11			S	G	G	N	Y	N	
LF4GW101	1137	15.13	15.13	15.13			S	D	G	N	Y	N	101 is Damaged

Date: 5/22/06

Page No.:

Consultant: FR

Field Staff: John De[illegible]

Field Staff Signature: [illegible]

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GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
~~[illegible]~~													
~~2156W07~~													
1027MW03	0936	8.47	8.47	8.47			F	G	G	N	Y	N	
1065PZ3A	0943	9.08	9.08	9.08			F	G	G	Y	Y	N	
LF6N100	0958	12.17	12.17	12.17			F	G	G	Y	Y	N	
1065MW11A	1002	8.44	8.44	8.44			F	G	G	N	Y	N	
1065MW11B	1004	8.37	8.37	8.37			F	G	G	Y	Y	N	
1065MW10B	1024	3.80	3.79	3.78	3.79		F	G	G	~~Y~~ N	Y	N	
1065MW10A	1020	3.47	3.47	3.47			F	G	G	N	Y	N	
1065MW9A	1030	3.64	3.64	3.64			F	G	G	N	Y	N	
1065PZ2A	1034	3.28	3.28	3.28			F	G	G	Y	Y	N	
1065MW101A	1042	5.69	5.69	5.69			F	G	G	N	Y	N	
1065PZ1B	1045	.72	.72	.72			F	G	G	N	Y	N	
1065PZ7A	1053	2.72	2.72	2.72			F	G	G	N	Y	N	
1065PZ7B	1050	2.22	2.24	2.26	2.24		F	G	G	N	Y	N	covered in bark
LF6G106	1130	9.65	9.65	9.65			F	G	G	Y	N	Y	
LF6PZ106	1135	4.82	4.82	4.82			S	G	/	/	/	N	

Date: 5/22/06

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Consultant: Treadwell & Rollo

Field Staff: Sucheon Sung

Field Staff Signature:

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GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
~~[illegible]~~ UF6PZ105	1138	.70	.70	.70			S	G	/	/	/	N	
UF6GW105	1150	21.33	21.33	21.33			F	G	G	N	Y	N	
EPSP01	1222	RUNNING											
UF02GW01	1235	.78	.78	.78			F	S	S	Y	N	N	replaced lock/no bolts
UF02GW02	1230	1.45	1.45	1.45			F	S	S	N	Y	N	BAD TABS
~~[illegible]~~ UF01GW05	1240	12.85	12.85	12.85			F	G	G	N	Y	N	
UBR02GW01	1405	6.44	6.44	6.44			F	G	G	N	Y	N	
979GW111R	1435	15.40	15.40	15.40			F	S	S	Y	Y	N	missing 1 bolt
979GW112	1438	15.47	15.47	15.47			F	G	S	N	Y	N	Bad cap
937GW106	1442	10.11	10.11	10.11			F	S	S	N	N	N	replaced cap + lock
937GW107	1444	10.87	10.87	10.87			F	G	G	N	Y	N	1 ~~[illegible]~~
937GW35 ~~[illegible]~~	1450	6.90	6.90	6.90			F	G	G	N	Y	N	missing 1 bolt
950GW108	1455	7.54	7.54	7.54			F	G	G	N	Y	N	CASING CUT @ SLANT
937GW103	1518	6.38	6.39	6.40	6.39		F	G	G	N	Y	N	1 BROKEN ~~[illegible]~~ tab
1065PZ-6A	unable to locate												

Date: 5/22/06

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Consultant: T&R

Field Staff: Sucheon Sung

Field Staff Signature:

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GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water in Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
~~LFGW01~~	~~921~~	~~3.06~~	~~3.06~~	~~3.06~~			~~Flush~~	~~Bolt~~	~~Good~~	~~No~~	~~Yes~~	~~Yes~~	
1027 MW01	937	8.45	8.45	8.45			Flush	2 stripped	Good	Yes	No	Yes	Put on new lock / Needs new cap.
1065 PZ3B	946	8.74	8.75	8.75			Flush	Good	Good	Yes	Yes	Yes	
1065 PZ6B	953	10.27	10.27	10.27			Flush	Good	Suspect	No	Yes	Yes	Annular seal is low. Leaking could.
LFGW101	1001	11.20	11.20	11.20			Flush	Good	Good	No	Yes	Yes	
1047 MW101	1011	4.72	4.72	4.72			Flush	Good	Good	No	Yes	Yes	
1065 PZ5B	1020	2.02	2.02	2.02			Flush	Good	Good	No	Yes	Yes	
1065 PZ5AR	1024	3.14	3.14	3.15			Flush	Good	Good	No	Yes	Yes	
1065 MW9B	1033	0.00	0.00	0.00			Flush	Good	Good	Yes	No	Yes	No lock present.
1065 PZ2B	1038	1.02	1.02	1.02			Stick Up	Good	Good	No	Yes	Yes	
1065 MW102	1046	4.40	4.40	4.40			Flush	Good	Good	No	Yes	Yes	
1065 PZ1A	1051	5.53	5.53	5.53			Flush	Good	Good	Yes	Yes	Yes	
1065 PZ4B	1059	2.63	2.63	2.63			Flush	Good	Good	No	Yes	Yes	
1065 PZ4A	1101	5.21	5.21	5.21			Flush	Good	Good	No	Yes	Yes	
LFGPZ101	1126	0.92	0.92	0.92			Stick Up	No box	Good	No	No	Yes	PVC sticking up out of ground.
LFGPZ02	1137	0.00	0.00	0.00			Stick Up	No box	Good	No	No	Yes	" "
LFGPZ103	1138	2.90	2.90	2.90			Stick Up	No box	Good	No	No	Yes	" "

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Page No.:

Consultant: T&R

Field Staff: Devin Rogers

Field Staff Signature:

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GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
LF6 72104	1140	7.09	7.09	7.09			Stick Up	No Box	Good	No	No	Yes	PVC sticking up out of ground.
LF6 GW104	1153	9.35	9.35	9.35			Flush	Good	Suspect	No	Yes	Yes	Cracked annular seal.
LF01GW02	1227	22.12	22.12	22.12			Stick Up	No Box	Good	No	Yes	Yes	No box
LF01GW01	1234	5.42	5.42	5.42			Stick Up	No Box	Good	No	Yes	Yes	No box
LF01GW06	1250	60.98	60.98	60.98			Flush	Good	Good	No	Yes	Yes	1 stripped tab.
LF01GW03	1311	44.80	44.80	44.80			Stick Up	Good	Good	No	Yes	Yes	
UBR02GW02	1408	6.61	6.61	6.61			Flush	Good	Good	No	Yes	Yes	
979GW117	1432	11.07	11.07	11.07			Flush	Good	Good	No	Yes	Yes	
979GW116	1437	7.94	7.94	7.94			Flush	Good	Good	No	Yes	Yes	
979GW115	1441	7.99	7.99	7.99			Flush	Good	Good	No	Yes	Yes	
979GW114	1447	6.47	6.47	6.47			Flush	Good	Good	Yes	Yes	Yes	
979GW113	1450	6.61	6.61	6.61			Flush	Good	Good	Yes	Yes	Yes	
979GW ~~199~~ 109	1457	6.58	6.58	6.58			Flush	Good	Good	No	Yes	No	1 tab broken
979GW110	1500	9.91	9.91	9.91			Flush	Good	Good	No	Yes	Yes	
NKGW03	1554	13.90	13.90	13.90			S	G	G	N	Y	Y	

Date: 5/22/05

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Consultant: T&R

Field Staff: Devin Raynal

Field Staff Signature:

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GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
LF10GW01	930	5.69	5.69	5.69			S	-	S	Y	Y	Y	
LF10GW100	938	40.39	40.39	40.39			F	G	G	Y	Y	N	under High Pressure
LF10GW03	950	36.35	36.35	36.35			F	G	G	N	Y	Y	
LF10GW02 ~~LF10GW02~~	~~952~~	–	–	–			–						unable to gauge well due to vegetation
LF10SP01	952	–	–	–			–						
LF08PZ02	1004	19.46	19.46	19.46			F	D	S	N	Y	N	2/2 tabs brk. 1/2 bolts missing
LF08GW01	1010	17.23	17.23	17.23			S	–	S	Y	N	Y	
LF08GW06	1013	15.84	15.84	15.84			S	–	S	N	Y	Y	
LF08GW03	1020	33.42	33.42	33.42			S	–	G	N	N	Y	
LF08GW02B	1025	44.75	44.75	44.75			S	–	G	N	Neap	Y	
LF08GW04	1034	31.54	31.54	31.54			S	–	G	N	Y	Y	
NKGW02	1042	12.60	12.60	12.60			F	G	G	N	Y	N	
LF8PZ01	1100	8.65	8.65	8.65			F	S	S	Y	Y	Y	
NKGW05	1108	18.71	18.71	18.71			F	G	G	N	Y	Y	
NKGW01	1118	26.21	26.21	26.71			F	G	G	N	Y	Y	
DAEGW06	1150	9.89	9.89	9.89			S	-	S	Y	Y	N	
DAEGW02	1202	11.09	11.09	11.09			F	G	G	Y	Y	N	

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Consultant: Treadwell & Rollo

Field Staff: Klemish

Field Staff Signature: [illegible]

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GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
DAEGW104	1206	19.79	19.79	19.79			S	-	G	N	Y	Y	
DAEPZ101	1216	21.67	21.67	21.67			F	D	G	N	Y	N	Severe Apron Damage
DAEGW103	1224	29.07	29.07	29.07			F	G	G	N	Y	N	
DAEGW104	1230	40.90	40.90	40.90			F	G	G	N	Y	N	
LFO1GW04	1250	51.41	51.41	51.41			S	-	G	N	Y	Y	
LFO1GW07	1258	52.94	52.94	52.94			S	-	G	N	Y	Y	
LFO2GW04	1315	15.10	15.10	15.10			S	-	G	N	Y	Y	
UBR03GW01	1342	30.25	30.25	30.25			F	S	G	N	Y	Y	1/2 tabs stripped
UBR03GW02	1350	12.45	12.45	12.45			F	S	G	N	Y	Y	2/2 " "
FM14EX07GW01	1422	23.21	23.21	23.21			F	G	G	N	Y	N	
FM14EX07GW02	1426	24.60	24.60	24.60			F	G	G	~~N~~ Y	Y	N	
610GW02	1437	3.36	3.36	3.36			F	G	G	N	Y	N	
600GW06	1443	4.15	4.15	4.15			S	-	G	N	Y	N	
600GW05	1448	3.17	3.17	3.17			S	-	G	N	Y	N	
600GW07	1455	3.59	3.59	3.59			F	G	G	N	Y	N	
600GW08	1458	4.88	4.88	4.88			F	G	G	N	Y	N	
600GW09	1502	3.96	3.96	3.96			F	G	G	N	Y	N	

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Consultant: Treadwell & Rollo

Field Staff: P. Lovnish

Field Staff Signature: [illegible]

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GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water in Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
9376W108	1512	5.69	5.69	5.69			F	G	G	N	Y	N	2357 lock - not 2244
NKGW04	1558	unable to locate											unable to locate - covered

Date: 5/22/06 Consultant: Treadwell & Rollo

Page No.: Field Staff: R. Cornish

Field Staff Signature: [signature]

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GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
2316W11	1032	3.01	3.01	3.01			F	G	G	Y	Y	N	
2316W06	1042	4.54	4.54	4.54			F	G	G	Y	Y	N	
2316W21	1045	5.28	5.28	5.28			F	G	G	Y	Y	N	
2316W20	1047	1.74	1.74	1.74			F	G	G	Y	Y	N	
2310Z01	1056	5.88	5.88	5.88			F	G	G	N	Y	N	
231PZ02	1100	5.41	5.41	5.41			F	G	G	Y	Y	N	
OW-1	1104	1.84	1.84	1.84			F	G	G	N	Y	N	
2316W29	1107	2.41	2.41	2.41			F	G	G	N	Y	N	
2316W28	1111	3.58	3.58	3.58			F	G	G	N	Y	N	
2316W09	1115	12.80	12.80	12.80			F	G	G	N	Y	N	
DAE6W07	1158	5.01	5.01	5.01			S	G	G	N	Y	N	
DAE6W08	1202	17.28	17.28	17.28			S	G	G	N	Y	N	
DAE6W101	1207	35.32	35.32	35.32			S	G	G	N	Y	N	
DAE6W05	1209	51.12	51.12	51.12			S	G	G	N	Y	N	
DAEPZ102	1214	27.02	27.02	27.02			F	G	G	N	Y	N	
DAE6W03	1220	52.58	52.58	52.58			F	G	G	N	Y	N	
DAESP03	1224	—	—	—									NOT FLOWING

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Consultant: TR

Field Staff: DA

Field Staff Signature: David August

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GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
2076W03	0915	3.48	3.48	3.48			F	G	G	Y	Y	N	
~~2316W16a~~ 2316W25	0921	4.14	4.14	4.14			F	G	G	N	Y	N	
2316W13	0927	2.17	2.17	2.17			S	G	G	N	Y	N	
2316W15	0929	3.37	3.37	3.37			F	G	G	N	Y	N	
2316W16	0931	5.68	5.68	5.68			F	G	G	N	Y	N	
2316W30	0934	5.83	5.83	5.83			F	G	G	Y	Y	N	
2316W24	0940	4.13	4.13	4.13			F	G	G	N	Y	N	
2316W23	0946	2.72	2.72	2.72			F	G	G	N	Y	N	
2316W10	0950	3.28	3.28	3.28			F	G	G	N	Y	N	
2316W17	0955	0.82	0.82	0.82			F	G	G	N	Y	N	
2316W18	0956	1.70	1.70	1.70			F	G	G	N	Y	N	
2316W19	1000	3.92	3.92	3.92			F	G	G	N	Y	N	
2316W27	1007	10.12	10.12	10.12			F	G	G	N	Y	N	
2316W22	1012	6.31	6.31	6.31			F	G	G	Y	Y	N	odor
2316W26	1015	6.73	6.73	6.73			F	G	G	Y	Y	N	
231PZ04	1022	4.78	4.78	4.78			F	G	G	N	Y	N	
231PZ03	1025	5.12	5.12	5.12			F	G	G	N	Y	N	

Date: 5/22/06

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Consultant: ~~DA~~ TYR

Field Staff: DA

Field Staff Signature: David Albert

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GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
TH-3	1234	7.30	7.30	7.30			F	G	G	Y	Y	N	
TH-2	1248	52.44	52.44	52.44			F	G	G	N	Y	N	
PGFGW100	1255	33.89	33.89	33.89			F	G	G	N	Y	N	
TH-1	1305	14.55	14.55	14.55			F	G	G	Y	Y	N	2/2 bolts missing
PGFGW100	1312	41.96	41.96	41.96			F	G	G	Y	Y	N	
~~PGFGW~~ PGFGW01	1330	—	—	—			—	—	—	—	—	—	unable to locate. Covered by gravel
9376W42	1425	5.67	5.67	5.67			F	G	G	N	Y	N	* bad lid
9376W06	1429	5.86	5.86	5.86			F	G	G	N	Y	N	
9376W32R	1435	5.62	5.62	5.62			F	G	G	N	Y	N	
9376W39	1440	8.02	8.02	8.02			F	G	G	N	Y	N	well 2' above grade
9376W104	1443	6.57	6.57	6.57			F	G	G	N	Y	N	
9376W105	1446	7.18	7.18	7.18			F	G	G	Y	Y	N	
9376W101	1450	6.58	6.58	6.58			F	G	G	N	Y	N	
9376W102	1452	6.60	6.60	6.60			F	G	G	N	Y	N	
9376W37	1501	7.16	7.16	7.16			S	G	G	N	Y	N	
9376W15	1504	7.29	7.29	7.29			S	G	G	N	Y	N	
9376W07	1511	8.87	8.87	8.87			S	G	G	N	Y	N	

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Consultant: TR

Field Staff: DA

Field Staff Signature: David Allen

* lid is crumbling. is located in jogging path. Possible trip hazard

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APPENDIX D
DataVal Data Validation Summary Reports

First Quarter 2006

DataVal, Inc.

RECEIVED
JUN 2 3 2006
TREADWELL & ROLLO

TO: Joshua Graber, Treadwell & Rollo, Inc June 20, 2006

FROM: Donna Breaux, DataVal, Inc. DB 6/20/06 T&R Project No. 2893.04

DATA VALIDATION SUMMARY REPORT FOR THE FIRST QUARTER 2006 GROUNDWATER MONITORING, THE PRESIDIO OF SAN FRANCISCO, CA

PRIMARY LABORATORY: Curtis & Tompkins, Ltd., Berkeley, CA

QC SPLIT SAMPLE LABORATORY: Columbia Analytical Services, Inc., Redding, CA

SAMPLING DATES: March 7 through 24, 2006

Data validation of Level III laboratory data packages was performed according to the project-specific guidelines. These guidelines were outlined in the Presidio-wide Quality Assurance Project Plan, Sampling and Analysis Plan, April, 2001; the U. S. Environmental Protection Agency Contract Laboratory Program National Functional Guidelines for Organic Data Review, October, 1999; and the U. S. Environmental Protection Agency Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004.

The data were reviewed for holding times, blanks, GC/MS tunes, initial calibrations, continuing calibration verification (CCV) standards, performance evaluation mix (PEM) standards, internal standards, laboratory duplicate samples, laboratory control samples (LCS), surrogate recoveries, matrix spikes (MS), matrix spike duplicates (MSD), ICP interference check standards, ICP serial dilutions and field QC samples.

The following paragraphs highlight the essential findings of the data validation effort on the primary samples:

I. Volatile Organic Compounds (VOCs) by GC/MS (8260B)

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reasons noted in Sections C and I.

A. Reporting Limits

The laboratory reporting limits for VOCs in water matrix samples met the project required reporting limits, with the following exceptions:

1. The laboratory reporting limits did not meet the project required reporting limits listed in Table 2-6.8-1 of the QAPP for bromoform, bromomethane, chloroethane, and chloromethane. The laboratory reported 1.0 ug/L for these compounds. The project required reporting limit was 0.5 ug/L.

B. Holding Times

Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries

Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exceptions:

1. Samples with non-detect results and high-failing surrogate recoveries did not require qualification, and were not noted in this report.
2. The percent recoveries for surrogate 1,2-dichloroethane-d4 were outside the 76%-114% project acceptance criteria in samples 231GW17 (185586-025) (123%), 231GW18 (185586-024) (123%), 231GW27 (185586-022) (124%) and 231GW28 (185586-021) (123%). The detected results in these samples were qualified as estimated with a high bias (J+). Qualification was not required for non-detect results.

See Table 2 of this report for a summary of qualifications due to surrogate percent recovery failures.

D. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples, with the following exceptions:

1. Source blank DW031306A (185511-012) had detected levels of chloroform (7 ug/L) and bromodichloromethane (0.7 ug/L). The associated samples were non-detect for chloroform and bromodichloromethane, and qualification was not required.
2. Source blank DW031306B (185511-013) had a detected level of chloroform (3.1 ug/L). The associated samples were non-detect for chloroform, and qualification was not required.

E. Laboratory Control Samples

All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate

All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

G. GC/MS Tunes

All QC criteria were met for the GC/MS tunes associated with the project samples.

H. Initial Calibration

Initial calibration criteria were met for all calibration standards associated with the project samples.

I. Continuing Calibration

Continuing calibration criteria were met for all continuing calibration standards associated with the project samples, with the following exceptions:

1. Qualification was not required for samples with non-detect results associated with high-failing continuing calibration standards. Those failures were not noted in this report.
2. The 3/14/06 at 11:08 continuing calibration verification (CCV) standard analyzed on instrument MSVOA09 had bromomethane with a percent difference (%D) less than the +/-25%D acceptance criteria at -28%. The non-detect results for bromomethane in the associated samples were qualified as estimated (UJ).
3. The 3/17/06 at 13:30 CCV standard analyzed on instrument MSVOA08 had bromomethane with a %D less than the +/-25%D acceptance criteria at -47%. The non-detect results for bromomethane in the associated samples were qualified as estimated (UJ).
4. The 3/20/06 at 13:17 CCV standard analyzed on instrument MSVOA08 had bromomethane with a %D less than the +/-25%D acceptance criteria at -28%. The non-detect results for bromomethane in the associated samples were qualified as estimated (UJ).
5. The 3/21/06 at 8:28 CCV standard analyzed on instrument MSVOA05 had bromomethane with a %D less than the +/-25%D acceptance criteria at -44%. The non-detect results for bromomethane in the associated samples were qualified as estimated (UJ).
6. The 3/21/06 at 8:31 CCV standard analyzed on instrument MSVOA09 had bromomethane with a %D less than the +/-25%D acceptance criteria at -46%. The non-detect results for bromomethane in the associated samples were qualified as estimated (UJ).
7. The 3/22/06 at 8:52 CCV standard analyzed on instrument MSVOA05 had bromomethane with a %D less than the +/-25%D acceptance criteria at -48%. The non-detect results for bromomethane in the associated samples were qualified as estimated (UJ).
8. The 3/22/06 at 8:35 CCV standard analyzed on instrument MSVOA09 had bromomethane with a %D less than the +/-25%D acceptance criteria at -54%. The non-detect results for bromomethane in the associated samples were qualified as estimated (UJ).
9. The 3/23/06 at 9:19 CCV standard analyzed on instrument MSVOA09 had bromomethane, acetone and vinyl acetate with %Ds less than the +/-25%D acceptance criteria at -33%, -26% and -29%, respectively. The non-detect results for bromomethane, acetone and vinyl acetate in the associated samples were qualified as estimated (UJ).

See Table 2 of this report for a summary of samples qualified for CCV percent difference failure.

J. Internal Standards

Internal standard areas and retention times met QC acceptance criteria for all project samples.

II. Semi-volatile Organic Compounds (SVOCs) by GC/MS (8270C)

Overall, the data are usable as reported with any added qualifiers. Qualification was required for the reason noted in Section I.

A. Reporting Limits

The laboratory reporting limits for SVOCs in water matrix samples met the project required reporting limits, with the following exception:

1. The laboratory reporting limit did not meet the project required reporting limit listed in Table 2-6.9-1 of the QAPP for 2-nitrophenol. The laboratory reported 20 ug/L for this compound. The project required reporting limit was 10 ug/L.

B. Holding Times

Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries

Surrogate spike recoveries met QC acceptance criteria for all project samples. Samples with non-detect results associated with high-failing surrogate recoveries did not require qualification, and were not noted in this report.

D. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples.

E. Laboratory Control Samples

All QC criteria were met for the laboratory control samples associated with the project samples. Samples with non-detect results and high-failing laboratory control sample recoveries did not require qualification, and were not noted in this report.

F. Matrix Spike/Matrix Spike Duplicate

A matrix spike and matrix spike duplicate were not analyzed with the project samples for this analysis.

G. GC/MS Tunes

All QC criteria were met for the GC/MS tunes associated with the project samples.

H. Initial Calibration

Initial calibration criteria were met for all calibration standards associated with the project samples.

I. Continuing Calibration

Continuing calibration criteria were met for all calibration standards associated with the project samples, with the following exceptions:

1. Qualification was not required for samples with non-detect results associated with high-failing continuing calibration verification standards (CCVs). Those failures were not noted in this report.
2. The 3/23/06 at 12:02 water matrix continuing calibration verification standard (CCV) analyzed on instrument MSBNA05, had one compound with a percent difference (%D) less than the +/-25%D acceptance criteria: bis(2-chloroisopropyl)ether at -44%. The non-detect result for bis(2-chloroisopropyl)ether in the associated sample was qualified as estimated (UJ).

See Table 2 of this report for a summary of qualifications due to continuing calibration percent difference failure.

J. Internal Standards

Internal standard areas and retention times met QC acceptance criteria for all project samples.

III. N-Nitrosodimethylamine (NDMA) GC/MS (1625C)

Overall, the data are usable as reported with any added qualifiers. Qualification was required for the reason noted in Section C.

A. Reporting Limits

A project required reporting limit for NDMA in water matrix samples was not stated in the QAPP.

B. Holding Times

Technical holding time criteria were met for all project samples.

C. Labeled Compound Recoveries

Labeled compound recoveries met QC acceptance criteria for all project samples, with the following exception:

1. The percent recovery for labeled compound n-nitrosodimethylamine-d6 failed the 25%-175% laboratory acceptance criteria in project sample NKGW04 (185679-004) at 23%. The detected result for n-nitrosodimethylamine in the sample was qualified as estimated (J).

See Table 2 of this report for a summary of qualifications due to labeled compound percent recovery failure.

D. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples, with the following exceptions:

1. Source blanks DW031306A and DW031306B had detected levels of n-nitrosodimethylamine at 4.25 ug/L and 2.7 ug/L, respectively. Project sample association with these blanks could not be established, therefore qualification of sample data was not required.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
A matrix spike and matrix spike duplicate were not analyzed with the project samples for this analysis.

G. GC/MS Tunes
The injection of DFTPP at the start of the analytical sequence could not be verified with the information included in the data package.

H. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

I. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

J. Internal Standards
Internal standard areas met QC acceptance criteria for all project samples. Retention times could not be verified with the information provided in the data package.

IV. Total Petroleum Hydrocarbons (TPH) - Gasoline/Stoddard Solvent (8015B)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
The laboratory reporting limit for TPH-gasoline in water matrix samples met the project required reporting limit. A project required reporting limit was not provided for stoddard solvent in the QAPP.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples. Samples with high-failing surrogate recoveries due to co-elution with high levels of hydrocarbons did not require qualification, and were not noted in this report.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

V. Total Petroleum Hydrocarbons – Diesel/Fuel Oil Range (8015B)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
The laboratory reporting limits for TPH-diesel and TPH-fuel oil in water matrix samples met the project required reporting limits.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples. Qualification was not required for samples with non-detect results associated with high-failing continuing calibration standards. Those failures were not noted in this report.

VI. Aromatic Volatiles by Gas Chromatography (GC) (8021B)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
The laboratory reporting limits for benzene, toluene, ethylbenzene, xylenes and methyl t-butyl ether in water matrix samples met the project required reporting limits.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples. Samples with one failing surrogate did not require qualification if the alternate surrogate met project acceptance criteria. Those failures were not noted in this report.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
Matrix spikes and matrix spike duplicates were not analyzed with the project samples for this analysis.

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples. Data was reported from two columns. CCVs with percent differences that failed criteria on one column did not require qualification of sample results if those results were reported from the column in control. Such failures were not noted in this report.

VII. Organochlorine Pesticides (8081A)

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reasons noted in Sections C, H and I.

A. Reporting Limits
The laboratory reporting limits for pesticides in water matrix samples met the project required reporting limits.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exceptions:

1. The percent recoveries for surrogate decachlorobiphenyl (DCB) failed the 65%-135% project acceptance criteria in three project samples. The compounds associated with surrogate DCB: alpha-chlordane, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, dieldrin, endosulfan II, endosulfan sulfate, endrin, endrin ketone, gamma-chlordane, methoxychlor and toxaphene, were qualified as estimated with a low bias (J-/UJ). The following table lists the project samples qualified due to these QC failures.

Project Sample Name	Laboratory Sample ID	DCB % Recovery	TCMX % Recovery
1349MW100	185622-026	64%	92%
LF6GW100	185622-036	47%	75%
LF6GW103	185622-037	59%	73%

See Table 2 of this report for a summary of qualifications due to surrogate percent recovery failures.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

G. Performance Evaluation Mix (PEM) Check Standards
All PEM check standards met the project degradation criteria of 20% for endrin and 4,4'-DDT.

H. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples, with the following exceptions:

1. Data was reported from two columns. Initial calibrations with percent relative standard deviations (%RSDs) that failed criteria on one column did not require qualification of sample results if those results were reported from the column in control. Such failures were not noted in this report.
2. The 3/11/06 initial calibration analyzed on instrument GC16, column A, had one compound with a %RSD greater than 20%, 4,4'-DDT at 26%. The non-detected results for 4,4'-DDT in the associated samples were qualified as estimated (UJ). Qualification was not required for results reported from column B.

See Table 2 of this report for a summary of qualifications due to initial calibration percent relative standard deviation failure.

I. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples, with the following exceptions:

1. Qualification was not required for samples with non-detect results associated with high-failing continuing calibration verification standards (CCVs). Those failures were not noted in this report.
2. Data was reported from two columns. CCVs with percent differences (%Ds) that failed criteria on one column did not require qualification of sample results if those results were reported from the column in control. Such failures were not noted in this report.
3. The 3/13/06 at 12:02 water matrix CCV analyzed on instrument GC21, column A, had 4,4'-DDT with a %D less than the +/-15%D acceptance criteria at -17%. The associated samples were non-detect for 4,4'-DDT, and were qualified as estimated (UJ).
4. The 3/16/06 at 00:28 water matrix CCV analyzed on instrument GC21, columns A and B, had 4,4'-DDT with %Ds less than the +/-15%D acceptance criteria at -21% on column A and -17% on column B. The

associated samples were non-detect for 4,4'-DDT, and were qualified as estimated (UJ).

5. The 3/13/06 at 14:09 water matrix CCV analyzed on instrument GC16, column B, had 4,4'-DDT with a %D less than the +/-15%D acceptance criteria at -20%. The associated samples were non-detect for 4,4'-DDT, and were qualified as estimated (UJ).
6. The 3/13/06 at 22:26 water matrix CCV analyzed on instrument GC16, column B, had 4,4'-DDT with a %D less than the +/-15%D acceptance criteria at -16%. The associated samples were non-detect for 4,4'-DDT, and were qualified as estimated (UJ).
7. The 3/28/06 at 23:28 water matrix CCV analyzed on instrument GC16, column B, had 4,4'-DDT and methoxychlor with %Ds less than the +/-15%D acceptance criteria at -18% and -18%. The associated samples were non-detect for 4,4'-DDT and methoxychlor, and were qualified as estimated (UJ).

See Table 2 of this report for a summary of samples qualified for CCV percent difference failure.

VIII. Polychlorinated Biphenyls (8082)

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reason noted in Section C.

A. Reporting Limits

The laboratory reporting limits for PCBs in water matrix samples met the project required reporting limits.

B. Holding Times

Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries

Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exceptions:

1. The percent recoveries for surrogate decachlorobiphenyl (DCB) failed the 65%-135% project acceptance criteria in several project samples. The compounds associated with surrogate DCB: PCB-1248, PCB-1254, and PCB-1260, were non-detect and qualified as estimated (UJ). The following table lists the project samples qualified due to these QC failures.

Project Sample Name	Laboratory Sample ID	DCB % Recovery	TCMX % Recovery
LF08GW01	185622-033	40%	84%
LF08GW06	185622-034	40%	84%
LF08GW06RB01	185622-035	39%	92%
LF6GW100	185622-036	32%	72%
LF6GW101	185622-030	39%	83%
LF6GW103	185622-037	37%	73%

See Table 2 of this report for a summary of qualifications due to surrogate percent recovery failures.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples, with the following exceptions:

1. Data was reported from two columns. CCVs with percent differences that failed criteria on one column did not require qualification of sample results if those results were reported from the column in control. Such failures were not noted in this report.
2. Qualification was not required for samples with non-detect results associated with high-failing continuing calibration standards. Those failures were not noted in this report.

IX. Polynuclear Aromatic Hydrocarbons by HPLC (8310)

Overall, the data are usable as reported with any added qualifiers. Qualification was required for the reason noted in Section F.

A. Reporting Limits
The laboratory reporting limits for PAHs in water matrix samples met the project required reporting limits, with the following exceptions:

1. The laboratory reporting limits did not meet the project required reporting limits listed in Table 2-6.12-1 of the QAPP for anthracene and fluoranthene. The laboratory reported 0.5 ug/L for anthracene. The project required reporting limit was 0.2 ug/L. The laboratory reported 0.4 ug/L for fluoranthene. The project required reporting limit was 0.2 ug/L.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exception:
1. The percent recoveries for benzo(a)pyrene were outside the 65%-135% project acceptance criteria in QC samples DAESP03 MS/MSD at 47% and 46%, respectively. The result for benzo(a)pyrene in the parent sample was non-detect and qualified as estimated (UJ). (QC Batch 111260)

See Table 2 of this report for a summary of qualifications due to MS/MSD percent recovery failure.

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples. Data was reported from two detectors. CCVs with percent differences that failed criteria on one detector did not require qualification of sample results if those results were reported from the detector in control. Such failures were not noted in this report.

X. Total and Dissolved Metals (6010B/6020A/7470A/SM2340B)

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reasons noted in Sections E and G.

A. Reporting Limits
The laboratory reporting limits for metals in water matrix samples met the project required reporting limits listed in Table 2-5.21-1 of the QAPP.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples, with the following exceptions:
1. Equipment blank LF08GW02BRB03 (185622-007) had a detected level of sodium at 1300 ug/L. The associated samples had sodium values greater than five times the blank amount, and qualification was not required.
2. Equipment blank LF08GW06RB01 (185622-035) had a detected level of sodium at 980 ug/L. The associated samples had sodium values greater than five times the blank amount, and qualification was not required.

D. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

E. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exceptions:
1. The percent recovery for aluminum was outside the 75%-125% project acceptance criteria in QC sample 1047MW101 (185381-001) MSD at 128%. The associated samples were non-detect for aluminum and qualification was not required. (QC Batch 111241)
2. The percent recoveries for calcium, magnesium, manganese and sodium were outside the 75%-125% project acceptance criteria in QC samples 231GW10 (185457-009) MS and/or MSD. The amounts of these metals present in the parent sample were greater than four times the amounts spiked and qualification was not required. (QC Batch 111276)
3. The percent recoveries for aluminum and sodium were outside the 75%-125% project acceptance criteria in QC samples DAESP03 (185408-008) MS and/or MSD. The amount of aluminum present in the parent sample was greater than four times the amount spiked and qualification was not required. The sample was diluted 20-fold for sodium analysis and qualification was not required. (QC Batch 111659)
4. The percent recoveries for calcium and manganese were outside the 75%-125% project acceptance criteria in QC samples 600GW101 (185408-002) MS and/or MSD. The amounts of calcium and manganese present in the parent sample were greater than four times the amounts spiked and qualification was not required. (QC Batch 111421)

5. The percent recovery for magnesium was outside the 75%-125% project acceptance criteria in QC sample DAESP03 (185408-008) MS. The sample was diluted 20-fold for magnesium analysis and qualification was not required. (QC Batch 111388)
6. The percent recoveries for calcium, magnesium and sodium were outside the 75%-125% project acceptance criteria in QC samples 1349MW02 (185457-016) MS/MSD. The amounts of these metals present in the parent sample were greater than four times the amounts spiked and qualification was not required. (QC Batch 111436)
7. The percent recoveries for calcium, magnesium and sodium were outside the 75%-125% project acceptance criteria in QC samples 1065PZ6B (185457-027) MS and/or MSD. The amounts of these metals present in the parent sample were greater than four times the amounts spiked and qualification was not required. (QC Batch 111603)
8. The percent recoveries for aluminum (55%) and sodium were outside the 75%-125% project acceptance criteria in QC samples BHWGW01 (185622-001) MS and/or MSD. The amount of sodium present in the parent sample was greater than four times the amount spiked and qualification was not required. The associated samples were non-detect for aluminum and were qualified as estimated (UJ). (QC Batch 111807)
9. The percent recoveries for potassium (66%/74%), calcium, magnesium and sodium were outside the 75%-125% project acceptance criteria in QC samples DAEGW101 (185622-020) MS/MSD. The amounts of calcium, magnesium and sodium present in the parent sample were greater than four times the amounts spiked and qualification was not required. The results for potassium in the associated samples were qualified as estimated with a low bias (J-/UJ). (QC Batch 111808)
10. The percent recovery for calcium was outside the 75%-125% project acceptance criteria in QC sample LF02GW04 (185679-011) MS. The amount of calcium present in the parent sample was greater than four times the amount spiked and qualification was not required. (QC Batch 111849)
11. The percent recoveries for calcium, magnesium, manganese and sodium were outside the 75%-125% project acceptance criteria, and the relative percent difference (RPD) for aluminum was outside the 20% project acceptance criteria in QC samples 600GW107 (185679-009) MS and/or MSD. The amounts of calcium, magnesium, manganese and sodium present in the parent sample were greater than four times the amounts spiked and qualification was not required. The results for aluminum in the associated samples were qualified as estimated (J/UJ). (QC Batch 111850)

See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery failure.

F. ICP Interference Check Standards
All QC criteria were met for the ICP interference check standards associated with the project samples.

G. ICP Serial Dilution
All QC criteria were met for the ICP serial dilutions associated with the project samples, with the following exceptions:

1. The percent difference (%D) failed the 10% project acceptance criteria for calcium in the serial dilution of sample 231GW10 (185457-009) at 11%. The results for calcium in the associated samples were qualified as estimated (J/UJ). (QC Batch 111276)
2. The %Ds failed the 10% project acceptance criteria for barium, iron and potassium in the serial dilution of sample 1349MW02 (185457-016) at 14%, 126% and 25%, respectively. The results for barium, iron and potassium in the associated samples were qualified as estimated (J/UJ). (QC Batch 111436)
3. The %D failed the 10% project acceptance criteria for potassium in the serial dilution of sample 1065PZ6B (185457-027) at 15%. The results for potassium in the associated samples were qualified as estimated (J/UJ). (QC Batch 111603)
4. The %D failed the 10% project acceptance criteria for sodium in the serial dilution of sample BHWGW01 (185622-001) at 11%. The results for sodium in the associated samples were qualified as estimated (J/UJ). (QC Batch 111807)
5. The %D failed the 10% project acceptance criteria for magnesium in the serial dilution of sample DAEGW101 (185622-020) at 13%. The results for magnesium in the associated samples were qualified as estimated (J/UJ). (QC Batch 111808)

See Table 2 of this report for a summary of qualifications due to serial dilution percent difference failure.

H. Initial and Continuing Calibrations
All initial and continuing calibration standards associated with the project samples met QC acceptance criteria. Qualification was not required for samples with non-detect results associated with high-failing continuing calibration standards. Those failures were not noted in this report.

XI. Various General Chemistry Methods

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reasons noted in Sections B, E and F.

A. Reporting Limits
The laboratory reporting limits for the general chemistry methods analyzed met the project required reporting limits listed in the tables of the QAPP, with the following exception:

1. The result for surfactants in sample DAESP03 (185778-005) was reported as non-detect at a ten-fold dilution due to the nature of the sample matrix. The reporting limit was raised by the dilution factor.

B. Holding Times

Technical holding time criteria were met for all project samples, with the following exceptions:

1. Samples 1065PZ2A (185511-010), 1065PZ3A (185511-011), DW031306A (185511-012) and DW031306B (185511-013) were analyzed two days after sampling, but past the 48-hour analysis holding time for nitrate-nitrogen and nitrite-nitrogen. The sample results were qualified as estimated with a low bias (J-/UJ).
2. Sample 610SP01 (185679-020) was analyzed 34 days after sampling for total dissolved solids. This was 27 days past the 7-day analysis holding time. The sample results were qualified as estimated with a low bias (J-).

See Table 2 of this report for a summary of qualifications due to missed analysis holding times.

C. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples, with the following exceptions:

1. Source blank DW031306A (185511-012) had detected levels of alkalinity (250 mg/L) and total dissolved solids (60 mg/L). Source blank DW031306B (185511-013) had a detected level of total dissolved solids at 70 mg/L. Equipment blank HWGW101RB04 (185586-007) had a detected level of alkalinity at 3.2 mg/L. Equipment blank LF08GW06RB01 (185622-035) had detected levels of alkalinity (2.8 mg/L) and total dissolved solids (220 mg/L). Since total dissolved solids and alkalinity are considered physical property measurements, qualification of sample data was not required.

D. Laboratory Control Samples

All QC criteria were met for the laboratory control samples associated with the project samples.

E. Matrix Spike/Matrix Spike Duplicate

All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exceptions:

1. The percent recovery for sulfide failed the 75%-125% project acceptance criteria in QC sample 231GW10 (185457-009) MS at 74%. The results for sulfide in the associated samples were qualified as estimated (J-/UJ). (QC batch 111347)
2. The percent recovery for sulfide failed the 75%-125% project acceptance criteria in QC sample 1065PZ6B (185457-027) MSD at

73%. The results for sulfide in the associated samples were qualified as estimated (J-/UJ). (QC batch 111347)

3. The percent recoveries for sulfide failed the 75%-125% project acceptance criteria in QC samples DW031306B (185511-013) MS/MSD at 53% and 58%, respectively. The results for sulfide in the associated samples were non-detect and qualified as estimated (UJ). It should be noted that the parent sample was a source blank. (QC batch 111450)
4. The percent recoveries for sulfide failed the 75%-125% project acceptance criteria in QC samples 1065PZ7A (185586-015) MS/MSD at 158% and 149%, respectively. The results for sulfide in the associated samples were non-detect and qualification was not required. (QC batch 111556)
5. The percent recoveries for sulfide failed the 75%-125% project acceptance criteria in QC samples LF6GW103 (185622-037) MS/MSD at 0% and 0%. The percent recoveries were less than 30%, which required rejection of non-detected results for sulfide. The detected results for sulfide in the associated samples were qualified as estimated (J-). The non-detect results for sulfide in the associated samples were rejected (R). (QC batch 111599)
6. The percent recoveries for sulfide failed the 75%-125% project acceptance criteria in QC samples 610SP02 (185679-021) MS/MSD at 0% and 0%. The percent recoveries were less than 30%, which required rejection of non-detected results for sulfide. The non-detect results for sulfide in the associated samples were rejected (R). (QC batch 111713)
7. The percent recoveries for surfactants (MBAS) failed the 75%-125% project acceptance criteria in QC samples DAEGW103 (185558-015) MS/MSD at 69% and 59%, respectively. The result for surfactants in the associated sample was non-detect and qualified as estimated (UJ). (QC batch 111376)

See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery failure.

F. Laboratory Duplicate Samples

All QC criteria were met for the laboratory duplicate samples associated with the project samples, with the following exceptions:

1. The relative percent difference (RPD) for total dissolved solids failed the 20% project acceptance criteria in the duplicate of sample 1065PZ7A (185586-015) at 39%. The results for total dissolved solids in the associated samples were qualified as estimated (J). (QC Batch 111576)
2. The RPD for total dissolved solids failed the 20% project acceptance criteria in the duplicate of sample LF08GW02B (185622-003) at 32%. The results for total dissolved solids in the associated samples were qualified as estimated (J). (QC Batch 111628)

See Table 2 of this report for a summary of qualifications due to laboratory duplicate relative percent difference failure.

G. Initial and Continuing Calibrations
All initial and continuing calibration standards associated with the project samples met QC acceptance criteria.

The following paragraphs highlight the essential findings of the data validation effort of the QC split samples:

XII. Volatile Organic Compounds by GC/MS (8260B)
Overall, the data are usable as reported with any added qualifiers. Qualification was required for the reason noted in Section I.

A. Reporting Limits
The laboratory reporting limits for VOCs in water matrix samples met the project required reporting limits, with the following exceptions:
1. The laboratory reporting limits did not meet the project required reporting limits listed in Table 2-6.8-1 of the QAPP for bromoform, bromomethane, chloroethane, and chloromethane. The laboratory reported 1.0 ug/L for these compounds. The project required reporting limit was 0.5 ug/L.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
Matrix spikes and matrix spike duplicates were not analyzed with the project samples for this analysis.

G. GC/MS Tunes
All QC criteria were met for the GC/MS tunes associated with the project samples.

H. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

I. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples, with the following exception:
1. The 3/13/06 at 10:21 water matrix CCV analyzed on instrument MSU had bromomethane with a percent difference (%D) less than the +/-25%D acceptance criteria at -36%. The associated samples were non-detect for bromomethane, and were qualified as estimated (UJ).

See Table 2 of this report for a summary of samples qualified for CCV percent difference failure.

J. Internal Standards
Internal standard areas and retention times met QC acceptance criteria for all project samples.

XIII. Total Petroleum Hydrocarbons – TPH-Gasoline/Stoddard Solvent (8015B)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
The laboratory reporting limit for TPH-gasoline in water matrix samples met the project required reporting limit. A project required reporting limit was not provided for stoddard solvent in the QAPP.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
Matrix spikes and matrix spike duplicates were not analyzed with the project samples for this analysis.

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

XIV. Total Petroleum Hydrocarbons – TPH-Diesel/Fuel oil (8015B)

Overall, the data are usable as reported with any added qualifiers. Qualification was required for the reason noted in Section H.

A. Reporting Limits
The laboratory reporting limits for TPH-diesel and TPH-fuel oil in water matrix samples met the project required reporting limits.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
Matrix spikes and matrix spike duplicates were not analyzed with the project samples for this analysis.

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples, with the following exceptions:

1. Qualification was not required for samples with non-detect results associated with high-failing continuing calibration standards. Those failures were not noted in this report.

2. The 4/6/06 at 9:32 continuing calibration verification (CCV) standard analyzed on instrument GCG had TPH-diesel with a percent difference (%D) greater than the +/-15%D acceptance criteria at +19%. The detected results for TPH-diesel in the associated samples were qualified as estimated with a high bias (J+). Qualification was not required for non-detect results.

See Table 2 of this report for a summary of samples qualified for CCV percent difference failure.

I. Compound Identification and Quantification
The laboratory reported a carbon range of C10–C24. The project required carbon range was C12-C24. In addition, the samples were not silica gel cleaned prior to analysis. This procedure is a requirement in the QAPP.

XV. Aromatic Volatiles by GC (8021B)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
The laboratory reporting limits for benzene, toluene, ethylbenzene, xylenes and methyl t-butyl ether in water matrix samples met the project required reporting limits.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
Matrix spikes and matrix spike duplicates were not analyzed with the project samples for this analysis.

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

XVI. Organochlorine Pesticides (8081A)

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reasons noted in Section C.

A. Reporting Limits
The laboratory reporting limits for pesticides in water matrix samples met the project required reporting limits.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exceptions:

1. The percent recovery for surrogate decachlorobiphenyl (DCB) failed the 65%-135% project acceptance criteria in sample LF5GW104CL (DH005-005) at 42%. The compounds associated with surrogate DCB: alpha-chlordane, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, dieldrin, endosulfan II, endosulfan sulfate, endrin, endrin ketone, gamma-chlordane, methoxychlor and toxaphene, were non-detect and qualified as estimated (UJ).
2. The percent recoveries for surrogates DCB and 2,4,5,6-tetrachloro-meta-xylene (TCMX) failed the 65%-135% project acceptance criteria in sample 1349MW102CL (DH005-006) at 28% and 54%, respectively. The percent recovery for surrogate DCB was less than 30%, which required rejection of non-detected results. The compounds associated with surrogate DCB: alpha-chlordane, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, dieldrin, endosulfan II, endosulfan sulfate, endrin, endrin ketone, gamma-chlordane, methoxychlor and toxaphene, were non-detect and qualified as rejected (R). The compounds associated with surrogate TCMX: alpha-BHC, beta-BHC, delta-BHC, gamma-BHC, aldrin, heptachlor, heptachlor epoxide and endosulfan I, were non-detect and qualified as estimated (UJ).
3. The percent recoveries for surrogates DCB and TCMX failed the 65%-135% project acceptance criteria in sample DAESP03CL (DH009-002) at 21% and 63%, respectively. The percent recovery for surrogate DCB was less than 30%, which required rejection of non-detected results. The compounds associated with surrogate DCB: alpha-chlordane, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, dieldrin, endosulfan II, endosulfan sulfate, endrin, endrin ketone, gamma-chlordane, methoxychlor and toxaphene, were non-detect and qualified as rejected (R). The compounds associated with surrogate TCMX: alpha-BHC, beta-BHC, delta-BHC, gamma-BHC, aldrin, heptachlor,

heptachlor epoxide and endosulfan I, were non-detect and qualified as estimated (UJ).

See Table 2 of this report for a summary of qualifications due to surrogate percent recovery failures.

D. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project samples.

E. Laboratory Control Samples

All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate

Matrix spikes and matrix spike duplicates were not analyzed with the project samples for this analysis.

G. Performance Evaluation Mix (PEM) Check Standards

All PEM check standards met the project degradation criteria of 20% for endrin and 4,4'-DDT.

H. Initial Calibration

Initial calibration criteria were met for all calibration standards associated with the project samples.

I. Continuing Calibration

Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

XVII. Polychlorinated Biphenyls (8082)

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reasons noted in Section C.

A. Reporting Limits

The laboratory reporting limits for PCBs in water matrix samples met the project required reporting limits.

B. Holding Times

Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries

Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exceptions:

1. The percent recoveries for surrogates decachlorobiphenyl (DCB) and 2,4,5,6-tetrachloro-meta-xylene (TCMX) failed the 65%-135% project acceptance criteria in sample LF4GW103CL (DH005-004) at 36% and 62%, respectively. The compounds associated with surrogate DCB:

PCB-1248, PCB-1254, and PCB-1260, were non-detect and qualified as estimated (UJ). The compounds associated with surrogate TCMX: PCB-1016, PCB-1221, PCB-1232 and PCB-1242, were non-detect and qualified as estimated (UJ).

2. The percent recoveries for surrogates DCB and TCMX failed the 65%-135% project acceptance criteria in sample 1349MW102CL (DH005-006) at 18% and 52%, respectively. The percent recovery for surrogate DCB was less than 30%, which required rejection of non-detected results. The compounds associated with surrogate DCB: PCB-1248, PCB-1254, and PCB-1260, were non-detect and qualified as rejected (R). The compounds associated with surrogate TCMX: PCB-1016, PCB-1221, PCB-1232 and PCB-1242, were non-detect and qualified as estimated (UJ).
3. The percent recovery for surrogate DCB failed the 65%-135% project acceptance criteria in sample DAESP03CL (DH0095-002) at 14%. The percent recovery for surrogate DCB was less than 30%, which required rejection of non-detected results. The compounds associated with surrogate DCB: PCB-1248, PCB-1254, and PCB-1260, were non-detect and qualified as rejected (R).

See Table 2 of this report for a summary of qualifications due to surrogate percent recovery failures.

D. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project samples.

E. Laboratory Control Samples

All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate

Matrix spikes and matrix spike duplicates were not analyzed with the project samples for this analysis.

G. Initial Calibration

Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration

Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

XVIII. Polynuclear Aromatic Hydrocarbons by HPLC (8310)

Overall, the data are usable as reported with any added qualifiers. Qualification was required for the reason noted in Section C.

A. Reporting Limits
The laboratory reporting limits for PAHs in water matrix samples met the project required reporting limits.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exception:

1. The percent recovery for surrogate terphenyl-d14 was outside the 65%-135% project acceptance criteria in sample 1349MW102CL (DH005-006) at 53%. All compounds in the sample were non-detect and qualified as estimated (UJ).

See Table 2 of this report for a summary of qualifications due to surrogate percent recovery failure.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
Matrix spikes and matrix spike duplicates were not analyzed with the project samples for this analysis.

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples. Qualification was not required for samples with non-detect results associated with high-failing continuing calibration standards. Those failures were not noted in this report.

XIX. Total and Dissolved Metals (6010B, 6020, 7470A)

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reasons noted in Sections B and D.

A. Reporting Limits

The laboratory reporting limits for metals in water matrix samples met the project required reporting limits listed in Tables 2-5.21-1 and 2-5.26-1 of the QAPP.

B. Holding Times

Technical holding time criteria were met for all project samples, with the following exception:

1. The analysis for mercury was performed 15 days past the 28-day analysis holding time in sample DAESP03CL (DH009-002). The result for mercury in the sample was non-detect and qualified as estimated (UJ).

See Table 2 of this report for a summary of qualifications due to missed analysis holding times.

C. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project samples.

D. Laboratory Control Samples

All QC criteria were met for the laboratory control samples and laboratory control sample duplicates associated with the project samples, with the following exceptions:

1. Qualification was not required for samples with non-detect results associated with high-failing laboratory control samples. Those failures were not noted in this report.
2. The percent recoveries for iron were outside the 80%-120% project acceptance criteria in QC samples LCSW-0315/LCSDW-0315 at 122% and 122%, respectively. The detected results for iron in the associated samples were qualified as estimated with a high bias (J+).

See Table 2 of this report for a summary of qualifications due to laboratory control sample percent recovery failure.

E. Matrix Spike/Matrix Spike Duplicate

Matrix spikes and matrix spike duplicates were not analyzed with the project samples for this analysis.

F. ICP Interference Check Standards

All QC criteria were met for the ICP interference check standards (ICS) associated with the project samples.

G. ICP Serial Dilution

ICP serial dilutions were not analyzed with the project samples.

H. Initial and Continuing Calibrations
All initial and continuing calibration standards associated with the project samples met QC acceptance criteria.

XX. Various General Chemistry Methods

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reasons noted in Sections D and E.

A. Reporting Limits
The laboratory reporting limits for the general chemistry methods analyzed met the project required reporting limits listed in the tables of the QAPP, with the following exceptions:

1. The laboratory reporting limit for fluoride was 1.0 mg/L; the project required reporting limit for this analyte was 0.1 mg/L. The laboratory reporting limit for alkalinity was 10 mg/L; the project required reporting limit for this analyte was 5 mg/L. The laboratory reporting limit for total dissolved solids was 20 mg/L; the project required reporting limit for this analyte was 10 mg/L. The laboratory reporting limit for methylene blue active substances (MBAS) was 0.05 mg/L; the project required reporting limit was 0.025 mg/L.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples, with the following exception:

1. Method blank DH005-MB had a detected level of total dissolved solids at 59 mg/L. With one exception, all associated samples had values for total dissolved solids greater than five times the blank amount. The remaining sample had a reported value for TDS less than five times the blank amount. Since this sample was a QC split sample, the result for TDS was compared to the result from the primary laboratory. Since the two results matched within 3%, data was not qualified for method blank contamination. The high result for TDS in this laboratory method blank result is suspect and could be an error made by the laboratory analyst.

D. Laboratory Control Samples
All QC criteria were met for the laboratory control samples and laboratory control sample duplicates associated with the project samples, with the following exception:

1. The percent recovery for total dissolved solids was outside the 80%-120% project acceptance criteria in QC sample DH005-LCSD at 123%. The detected results for total dissolved solids in the associated samples were qualified as estimated with a high bias (J+).

See Table 2 of this report for a summary of qualifications due to laboratory control sample percent recovery failure.

E. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exception:
1. The percent recovery for sulfide failed the 75%-125% project acceptance criteria in QC sample 1047MW101CL (DH005-001) MS at 73%. The results for sulfide in the associated samples were non-detect and qualified as estimated (UJ). (QC batch K0601866)

See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery failure.

F. Laboratory Duplicate Samples
All QC criteria were met for the laboratory duplicate samples associated with the project samples.

G. Initial and Continuing Calibrations
All initial and continuing calibration standards associated with the project samples met QC acceptance criteria.

SUMMARY
The attached Table 1 lists the samples and analyses included in the data validation effort. The attached Table 2 summarizes the data qualifications of all project samples for each test method included in the data packages.

USABILITY
The quality control criteria were reviewed, and other than those discussed above, all criteria were met and the data are considered acceptable. Rejected sample results (R) are not usable for any purpose. Estimated sample results (J/UJ) are usable only for limited purposes. Based upon the cursory level data validation, all other results are considered valid and usable for all purposes.

VALIDATION QUALIFIERS IDENTIFICATION
The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," October, 1999.

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. *A minus sign (-) indicates the numerical value has a low bias. A plus sign (+) indicates the numerical value has a high bias.*

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

FIELD QC

The following paragraphs highlight the essential findings of the field duplicate samples:

Field duplicate precision was evaluated by calculating the relative percent difference (RPD) between detected results in the original sample and the associated duplicate. The control limit used for field duplicates was a relative percent difference less than or equal to 50 percent, or the absolute difference of the two results must be less than the reporting limit for those analytes reported at or near the detection limit. Nineteen samples were collected in duplicate for the First Quarter 2006 sampling event.

Project Sample Primary ID	Laboratory Sample ID	Project Sample Duplicate ID	Laboratory Sample ID
1047MW101	185381-001	DUP0307062A	185381-002
1065PZ5AR	185381-005	DUP0307062B	185381-006
LF4GW103	185381-008	DUP0307063A	185381-009
LF5GW104	185381-011	DUP0307063B	185381-012
1349MW102	185381-013	DUP0307063C	185381-014
610GW103	185381-017	DUP0307061A	185381-018
600GW108	185381-019	DUP0307061B	185381-020
231GW21	185408-004	DUP0308061A	185408-005
LF01GW01	185408-006	DUP0308063C	185408-007
DAESP03	185408-008	DUP0308063A	185408-009
BB3SW104	185408-010	DUP0308063B	185408-011
1260GW102	185457-003	DUP0309063A	185457-004
231GW22	185457-011	DUP0309061A	185457-012
950GW108	185457-020	DUP0309062A	185457-019
1065MW9A	185457-023	DUP0309062B	185457-024
979GW116	185558-008	DUP0314061A	185558-009
LF08GW04	185622-005	DUP0316064A	185622-006
1213GW101	185638-005	DUP0317062A	185638-007
NKGW04	185679-004	DUP0320061A	185679-005

The attached Table 3 summarizes the field duplicate sample results. The detected results of the original sample and the associated duplicate sample were compared and the calculated RPDs reported. All RPDs met the 50 percent precision control limit requirement, with the following exceptions:

1. In field duplicates 1349MW102 and DUP0307063C, the absolute difference between the results was greater than the 100 ug/L reporting limit for dissolved aluminum. The original result was non-detect at 100 ug/L and the duplicate result was 260 ug/L. In addition, the relative percent difference (RPD) between the detected results failed the 50% acceptance criteria for dissolved iron at 94%.
2. In field duplicates 600GW108 and DUP0307061B the RPD between the detected results failed the 50% acceptance criteria for dissolved copper at 70%.
3. In field duplicates 231GW21 and DUP0308061A, the absolute difference between the results was greater than the 300 ug/L reporting limit for fuel oil. The original result was non-detect at 300 ug/L and the duplicate result was 5400 ug/L. The RPD between the detected results failed the 50% acceptance criteria for diesel at 119%.
4. In field duplicates LF08GW04 and DUP0316064A, the absolute difference between the results was greater than the 0.01 mg/L reporting limit for cyanide. The original result was non-detect at 0.01 mg/L and the duplicate result was 0.03 mg/L. The RPD between the detected results failed the 50% acceptance criteria for total dissolved solids at 67%.
5. In field duplicates 1213GW101 and DUP0317062A the RPD between the detected results failed the 50% acceptance criteria for benzene at 61%.

The analysis of field duplicate samples is a measure of both field and analytical precision. The imprecision in the results in the field duplicate pairs listed above may be due to the sample matrix, sampling or laboratory technique, or method defects. With the exceptions noted above, the results between the field duplicate pairs matched well. Since the effect on the quality of the data is not known, data is not qualified for field duplicate failure.

The following paragraphs highlight the essential findings of the QC split duplicate samples:

Laboratory analytical precision was evaluated by calculating the relative percent differences (RPD) between detected results in the samples and the associated QC split duplicate, which was sent to another laboratory for analysis. The QC split samples were sent to Columbia Analytical Services in Redding, CA. The control limit used for QC split duplicates was a relative percent difference less than or equal to 50 percent, or the absolute difference of the two results must be less than the reporting limit for those analytes that were at or near the detection limit. Twelve samples were collected in duplicate for the First Quarter 2006 sampling event.

Project Sample Primary ID	Laboratory Sample ID	Project Sample Split Duplicate ID	Laboratory Sample ID
1047MW101	185381-001	1047MW101CL	DH005-001
1065PZ5AR	185381-005	1065PZ5ARCL	DH005-002
LF4GW103	185381-008	LF4GW103CL	DH005-004
LF5GW104	185381-011	LF5GW104CL	DH005-005

Project Sample Primary ID	Laboratory Sample ID	Project Sample Split Duplicate ID	Laboratory Sample ID
1349MW102	185381-013	1349MW102CL	DH005-006
610GW103	185381-017	610GW103CL	DH005-003
231GW21	185408-004	231GW21CL	DH009-004
LF01GW01	185408-006	LF01GW01CL	DH009-001
DAESP03	185408-008	DAESP03CL	DH009-002
BB3SW104	185408-010	BB3SW104CL	DH009-003
1260GW102	185457-003	1260GW102CL	D0600027-002
950GW108	185457-020	950GW108CL	D0600027-001

The attached Table 4 summarizes the QC split duplicate samples. The detected results were compared and the RPDs are reported. All RPDs met the 50 percent precision control limit requirement, with the following exceptions:

1. In QC split duplicates 1065PZ5AR and 1065PZ5ARCL, the RPD between the reported results failed the 50% RPD acceptance criteria for dissolved iron at 56%.
2. In QC split duplicates LF4GW103 and LF4GW103CL, the absolute difference between the results was greater than the 100 ug/L reporting limit for dissolved iron. The original result was 510 ug/L and the duplicate result was non-detect at 100 ug/L.
3. In QC split duplicates 1349MW102 and 1349MW102CL, the absolute difference between the results was greater than the 1 ug/L reporting limit for dissolved copper. The original result was non-detect at 1 ug/L and the duplicate result was 2.7 ug/L.
4. In QC split duplicates 231GW21 and 231GW21CL, the RPD between the reported results failed the 50% RPD acceptance criteria for TPH-diesel at 114%. The absolute difference between the results was greater than the 1 ug/L reporting limit for chloroform. The original result was non-detect at 1 ug/L and the duplicate result was 2.7 ug/L.
5. In QC split duplicates 1260GW102 and 1260GW102CL, the absolute difference between the results was greater than the 50 ug/L reporting limit for TPH-diesel. The original result was non-detect at 50 ug/L and the duplicate result was 120 ug/L.
6. In QC split duplicates 950GW108 and 950GW108CL, the absolute difference between the results was greater than the 50 ug/L reporting limit for TPH-diesel. The original result was non-detect at 50 ug/L and the duplicate result was 120 ug/L.

Data is not qualified for RPD failure in QC split samples because the effect on the quality of the data is not known.

The following paragraphs highlight the essential findings of the field QC blank samples:

Eleven trip blanks, six equipment blanks and two source blanks were analyzed with the project samples. All field QC blanks were non-detect for all methods analyzed, with the following exceptions:

1. Source blank DW031306A (185511-012) had detected levels of chloroform (7 ug/L) and bromodichloromethane (0.7 ug/L). The associated samples were non-detect for chloroform and bromodichloromethane, and qualification was not required.
2. Source blank DW031306B (185511-013) had a detected level of chloroform (3.1 ug/L). The associated samples were non-detect for chloroform, and qualification was not required.

3. Source blanks DW031306A (185511-012) and DW031306B (185511-013) had detected levels of n-nitrosodimethylamine at 4.25 ug/L and 2.7 ug/L, respectively. Project sample association with these blanks could not be established, and qualification was not required.
4. Equipment blank LF08GW02BRB03 (185622-007) had a detected level of sodium at 1300 ug/L. The associated samples had sodium values greater than five times the blank amount, and qualification was not required.
5. Equipment blank LF08GW06RB01 (185622-035) had a detected level of sodium at 980 ug/L. The associated samples had sodium values greater than five times the blank amount, and qualification was not required.
6. Source blank DW031306A (185511-012) had detected levels of alkalinity (250 mg/L) and total dissolved solids (60 mg/L). Qualification was not required for these physical property parameters.
7. Source blank DW031306B (185511-013) had a detected level of total dissolved solids at 70 mg/L. Qualification was not required for this physical property parameter.
8. Equipment blank HWGW101RB04 (185586-007) had a detected level of alkalinity at 3.2 mg/L. The associated samples had alkalinity values greater than five times the blank amount and qualification was not required.
9. Equipment blank LF08GW06RB01 (185622-035) had detected levels of alkalinity (2.8 mg/L) and total dissolved solids (220 mg/L). The associated samples had alkalinity values greater than five times the blank amount. Qualification was not required for these physical property parameters.

Table 1
Sample Summary
First Quarter 2006 Groundwater Sampling Event
The Presidio of San Francisco, CA

Site Sample ID	Laboratory Sample ID	Date Sampled	Analyses	Sample Type
1047MW101	185381-001	7-Mar-06	VOCs (8260B), TPH-Gasoline/Stoddard Solvent (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water (1)
DUP0307062A	185381-002	7-Mar-06	VOCs (8260B), TPH-Gasoline/Stoddard Solvent (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	FD (1)
1065PZ1B	185381-003	7-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
1065PZ2B	185381-004	7-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
1065PZ5AR	185381-005	7-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water (2)
DUP0307062B	185381-006	7-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	FD (2)
1065MW11B	185381-007	7-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
LF4GW103	185381-008	7-Mar-06	PCBs (8082), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	Water (3)
DUP0307063A	185381-009	7-Mar-06	PCBs (8082), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	FD (3)
LF4GW104	185381-010	7-Mar-06	PCBs (8082), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	Water
LF5GW104	185381-011	7-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	Water (4)
DUP0307063B	185381-012	7-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	FD (4)
1349MW102	185381-013	7-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	Water (5)
DUP0307063C	185381-014	7-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	FD (5)
610GW101	185381-015	7-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
610GW102	185381-016	7-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
610GW103	185381-017	7-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water (6)
DUP0307061A	185381-018	7-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	FD (6)

Table 1
Sample Summary
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Site Sample ID	Laboratory Sample ID	Date Sampled	Analyses	Sample Type
600GW108	185381-019	7-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), PAHs (8310), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water (7)
DUP0307061B	185381-020	7-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), PAHs (8310), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	FD (7)
TB0307061B	185381-021	7-Mar-06	Volatile Organic Compounds (8260B)	Trip Blank
600GW106	185408-001	8-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), PAHs (8310), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
600GW101	185408-002	8-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
600GW105	185408-003	8-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), PAHs (8310), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
231GW21	185408-004	8-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water (8)
DUP0308061A	185408-005	8-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	FD (8)
LF01GW01	185408-006	8-Mar-06	Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 8)	Water (9)
DUP0308063C	185408-007	8-Mar-06	Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 8)	FD (9)
DAESP03	185408-008	8-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Total & Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3, 7)	Water (10)
DUP0308063A	185408-009	8-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Total & Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3, 7)	FD (10)
BB3SW104	185408-010	8-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Total & Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	Water (11)
DUP0308063B	185408-011	8-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Total & Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	FD (11)
LF5GW103	185457-001	9-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water
LF5GW102	185457-002	9-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water
1260GW102	185457-003	9-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), PAHs (8310)	Water (12)
DUP0309063A	185457-004	9-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), PAHs (8310)	FD (12)

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Sample Summary
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Site Sample ID	Laboratory Sample ID	Date Sampled	Analyses	Sample Type
1349MW104	185457-005	9-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water
1349MW103	185457-006	9-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water
LF5GW101	185457-007	9-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water
LF5GW100	185457-008	9-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water
231GW10	185457-009	9-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
231GW30	185457-010	9-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
231GW22	185457-011	9-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water (13)
DUP0309061A	185457-012	9-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	FD (13)
231GW16	185457-013	9-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
1065PZ4A	185457-014	9-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
TB0309061A	185457-015	9-Mar-06	Volatile Organic Compounds (8260B)	Trip Blank
1349MW02	185457-016	10-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water
231PZ02	185457-017	10-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
DUP0309062A	185457-019	9-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	FD (14)
950GW108	185457-020	9-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water (14)
1065PZ3B	185457-021	9-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
1065MW9B	185457-022	9-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
1065MW9A	185457-023	9-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water (15)

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Site Sample ID	Laboratory Sample ID	Date Sampled	Analyses	Sample Type
DUP0309062B	185457-024	9-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	FD (15)
1065MW11A	185457-025	9-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
1065MW10B	185457-026	9-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
1065PZ6B	185457-027	10-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
NKGW03	185463-001	10-Mar-06	VOCs (8260B), NDMA (1625C), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 8)	Water
1221GW103	185463-002	10-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), PAHs (8310)	Water
1260GW101	185463-003	10-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B)	Water
1260GW103	185463-004	10-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B)	Water
1221GW104	185463-005	10-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B)	Water
1065PZ4B	185511-001	13-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
1065PZ5B	185511-002	13-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
937GW12	185511-003	13-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW101	185511-004	13-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW102	185511-005	13-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW103	185511-006	13-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW108	185511-007	13-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW102RB101	185511-008	13-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Equip. Blank
1065MW101	185511-009	13-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
1065PZ2A	185511-010	13-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
1065PZ3A	185511-011	13-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
DW031306A	185511-012	13-Mar-06	VOCs (8260B), SVOCs (8270C), NDMA (1625C), TPH-Gasoline/Stoddard Solvent (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3, 7, 8, 12, 13)	Source Blank

Table 1
Sample Summary
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Site Sample ID	Laboratory Sample ID	Date Sampled	Analyses	Sample Type
DW031306B	185511-013	13-Mar-06	VOCs (8260B), SVOCs (8270C), NDMA (1625C), TPH-Gasoline/Stoddard Solvent (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3, 7, 8, 12, 13)	Source Blank
TB0313063A	185511-014	13-Mar-06	Volatile Organic Compounds (8260B)	Trip Blank
937GW35	185511-015	13-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW39	185511-016	13-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW38	185511-017	13-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW37	185511-018	13-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW104	185511-019	13-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW111R	185511-020	13-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW117	185511-021	13-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW115	185511-022	13-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW105	185511-023	13-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW105RB106	185511-024	13-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Equip. Blank
937GW106	185511-025	13-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW107	185558-001	14-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
979GW109	185558-002	14-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
979GW110	185558-003	14-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
979GW113	185558-004	14-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
979GW114	185558-005	14-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
979GW112	185558-006	14-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
979GW112RB116	185558-007	14-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Equip. Blank
979GW116	185558-008	14-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water (16)
DUP0314061A	185558-009	14-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	FD (16)
TB0314061A	185558-010	14-Mar-06	Volatile Organic Compounds (8260B)	Trip Blank
DAEGW03	185558-011	14-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	Water
DAEGW04	185558-012	14-Mar-06	VOCs (8260B), TPH-Diesel/FO (8015B), PAHs (8310), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	Water
DAEGW05	185558-013	14-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	Water

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DAEGW08	185558-014	14-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	Water
DAEGW103	185558-015	14-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3, 7, 9)	Water
600GW109	185558-016	14-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), PAHs (8310), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
1065MW102	185558-017	14-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
1065PZ1A	185558-018	14-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
231PZ04	185558-019	14-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
231PZ03	185558-020	14-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
937GW07	185558-021	14-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
231PZ01	185558-022	14-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
937GW06	185558-023	14-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW42	185558-024	14-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
937GW32R	185558-025	14-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
231GW15	185558-026	14-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
231GW13	185558-027	14-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
600GW102	185586-001	15-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), PAHs (8310), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
600GW103	185586-002	15-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), PAHs (8310), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
600GW104	185586-003	15-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), PAHs (8310), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
BHWGW04	185586-004	15-Mar-06	VOCs (8260B), Dissolved Metals (6020), General Chemistry Parameters (2, 3)	Water
HWGW100	185586-005	15-Mar-06	VOCs (8260B), Dissolved Metals (6020), General Chemistry Parameters (2, 3)	Water
HWGW101	185586-006	15-Mar-06	VOCs (8260B), Dissolved Metals (6020), General Chemistry Parameters (2, 3)	Water
HWGW101RB04	185586-007	15-Mar-06	VOCs (8260B), Dissolved Metals (6020), General Chemistry Parameters (2, 3)	Equip. Blank

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Sample Summary
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Site Sample ID	Laboratory Sample ID	Date Sampled	Analyses	Sample Type
937GW15	185586-008	15-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
DAEGW07	185586-009	15-Mar-06	VOCs (8260B), SVOCs (8270C), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	Water
BB3PZ102	185586-010	15-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Total & Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	Water
BB3SW102	185586-011	15-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Total & Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3)	Water
TB0315063A	185586-012	15-Mar-06	Volatile Organic Compounds (8260B)	Trip Blank
BB3SW100	185586-013	15-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
BB3SW101	185586-014	15-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
1065PZ7A	185586-015	15-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
1065PZ7B	185586-016	15-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12)	Water
231GW09	185586-017	15-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020, 7470A), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
231GW11	185586-018	15-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
231GW23	185586-019	15-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
231GW25	185586-020	15-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
231GW28	185586-021	15-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
231GW27	185586-022	15-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
231GW20	185586-023	15-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
231GW18	185586-024	15-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
231GW17	185586-025	15-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
231GW06	185586-026	15-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water

Table 1
Sample Summary
First Quarter 2006 Groundwater Sampling Event
The Presidio of San Francisco, CA

Site Sample ID	Laboratory Sample ID	Date Sampled	Analyses	Sample Type
BHWGW01	185622-001	16-Mar-06	VOCs (8260B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (2, 3)	Water
BHWGW05	185622-002	16-Mar-06	VOCs (8260B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (2, 3)	Water
LF08GW02B	185622-003	16-Mar-06	VOCs (8260B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3, 8, 12)	Water
LF08GW03	185622-004	16-Mar-06	VOCs (8260B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3, 8, 12)	Water
LF08GW04	185622-005	16-Mar-06	VOCs (8260B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3, 8, 12)	Water (17)
DUP0316064A	185622-006	16-Mar-06	VOCs (8260B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3, 8, 12)	FD (17)
LF08GW02BRB03	185622-007	16-Mar-06	VOCs (8260B), Dissolved Metals (6010B, 6020, 7470A)	Equip. Blank
LF01GW02	185622-008	16-Mar-06	Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 8)	Water
231GW26	185622-009	16-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
231GW24	185622-010	16-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
231GW19	185622-011	16-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
231GW29	185622-012	16-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
BB3PZ101	185622-013	16-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3)	Water
BB3GW100	185622-014	16-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3)	Water
207GW03	185622-015	16-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
1065MW10A	185622-016	16-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12)	Water
LF02GW01	185622-017	16-Mar-06	Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 8)	Water
EPSP01	185622-018	16-Mar-06	Total & Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 8)	Water
TB0316063A	185622-019	16-Mar-06	Volatile Organic Compounds (8260B)	Trip Blank

Table 1
Sample Summary
First Quarter 2006 Groundwater Sampling Event
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Site Sample ID	Laboratory Sample ID	Date Sampled	Analyses	Sample Type
DAEGW101	185622-020	16-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3, 7, 9)	Water
DAEGW102	185622-021	16-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3, 7, 9)	Water
DAEGW104	185622-022	16-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3, 7, 9)	Water
DAEGW06	185622-023	16-Mar-06	VOCs (8260B), TPH-Diesel/FO (8015B), PAHs (8310), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3)	Water
1349MW01	185622-024	16-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water
1349MW03R	185622-025	16-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water
1349MW100	185622-026	16-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water
1349MW101	185622-027	16-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water
LF10GW03	185622-028	17-Mar-06	BTEX/MTBE (8021B), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water
LF10GW100	185622-029	17-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water
LF6GW101	185622-030	17-Mar-06	TPH-Gasoline (8015B), TPH-Diesel (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
LF6GW104	185622-031	17-Mar-06	TPH-Diesel/FO (8015B), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
TB0317061A	185622-032	17-Mar-06	Volatile Organic Compounds (8260B)	Trip Blank
LF08GW01	185622-033	17-Mar-06	VOCs (8260B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3, 8, 12)	Water
LF08GW06	185622-034	17-Mar-06	VOCs (8260B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3, 8, 12)	Water
LF08GW06RB01	185622-035	17-Mar-06	VOCs (8260B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3, 8, 12)	Equip. Blank

Table 1
Sample Summary
First Quarter 2006 Groundwater Sampling Event
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Site Sample ID	Laboratory Sample ID	Date Sampled	Analyses	Sample Type
LF6GW100	185622-036	17-Mar-06	TPH-Gasoline (8015B), TPH-Diesel (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
LF6GW103	185622-037	17-Mar-06	TPH-Gasoline (8015B), TPH-Diesel (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
514AGW101	185638-001	17-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), PAHs (8310)	Water
FM14EX07GW102	185638-002	17-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), PAHs (8310)	Water
1221GW101	185638-003	17-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), PAHs (8310)	Water
1221GW102	185638-004	17-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), PAHs (8310)	Water
1213GW101	185638-005	17-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), PAHs (8310)	Water (18)
FM14EX07GW101	185638-006	17-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), PAHs (8310)	Water
DUP0317062A	185638-007	17-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), PAHs (8310)	FD (18)
TB0317062A	185638-008	17-Mar-06	Volatile Organic Compounds (8260B)	Trip Blank
NKGW02	185679-001	20-Mar-06	VOCs (8260B), NDMA (1625C), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 8)	Water
NKGW05	185679-002	20-Mar-06	VOCs (8260B), NDMA (1625C), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 8)	Water
NKGW01	185679-003	20-Mar-06	VOCs (8260B), NDMA (1625C), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 8)	Water
NKGW04	185679-004	20-Mar-06	VOCs (8260B), NDMA (1625C), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 8)	Water (19)
DUP0320061A	185679-005	20-Mar-06	VOCs (8260B), NDMA (1625C), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 8)	FD (19)
LF6GW105	185679-006	20-Mar-06	Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
LF6GW106	185679-007	20-Mar-06	TPH-Diesel/FO (8015B), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3, 12, 13)	Water

Table 1
Sample Summary
First Quarter 2006 Groundwater Sampling Event
The Presidio of San Francisco, CA

Site Sample ID	Laboratory Sample ID	Date Sampled	Analyses	Sample Type
1349MW105	185679-008	20-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water
600GW107	185679-009	20-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), PAHs (8310), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
LF01GW06	185679-010	20-Mar-06	Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 8)	Water
LF02GW04	185679-011	20-Mar-06	Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 8)	Water
LF01GW07	185679-012	20-Mar-06	Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 8)	Water
LF01GW04	185679-013	20-Mar-06	Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 8)	Water
LF01GW03	185679-014	20-Mar-06	Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 8)	Water
LF01GW05	185679-015	20-Mar-06	Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 8)	Water
LF02GW02	185679-016	20-Mar-06	Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 8)	Water
LF10GW01	185679-017	20-Mar-06	BTEX/MTBE (8021B), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water
TB0320063A	185679-018	20-Mar-06	Volatile Organic Compounds (8260B)	Trip Blank
LF5SP100	185679-019	21-Mar-06	VOCs (8260B), Pesticides (8081A), Total & Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water
610SP01	185679-020	21-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Total & Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
610SP02	185679-021	21-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Total & Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12, 13)	Water
TB0321063A	185679-022	21-Mar-06	Volatile Organic Compounds (8260B)	Trip Blank
1260GW101	185778-002	24-Mar-06	PAHs (8310)	Water
1260GW103	185778-003	24-Mar-06	PAHs (8310)	Water
1221GW104	185778-004	24-Mar-06	PAHs (8310)	Water
DAESP03	185778-005	24-Mar-06	General Chemistry Parameters (9)	Water
1047MW101CL	DH005-001	7-Mar-06	VOCs (8260B), TPH-Gasoline/Stoddard Solvent (8015B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12)	QC (1)
1065PZ5ARCL	DH005-002	7-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12, 13)	QC (2)
610GW103CL	DH005-003	7-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12, 13)	QC (6)
LF4GW103CL	DH005-004	7-Mar-06	PCBs (8082), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3)	QC (3)

Table 1
Sample Summary
First Quarter 2006 Groundwater Sampling Event
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Site Sample ID	Laboratory Sample ID	Date Sampled	Analyses	Sample Type
LF5GW104CL	DH005-005	7-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3)	QC (4)
1349MW102CL	DH005-006	7-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3)	QC (5)
LF01GW01CL	DH009-001	8-Mar-06	Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 8)	QC (9)
DAESP03CL	DH009-002	8-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Total & Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3, 7, 8, 9)	QC (10)
BB3SW104CL	DH009-003	8-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Total & Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3)	QC (11)
231GW21CL	DH009-004	8-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12, 13)	QC (8)
950GW108CL	D0600027-001	9-Mar-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	QC (14)
1260GW102CL	D0600027-002	9-Mar-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), PAHs (8310)	QC (12)
TB0309063A	D0600027-003	9-Mar-06	Volatile Organic Compounds (8260B)	Trip Blank

W: Water
VOCs: Volatile Organic Compounds
TPH: Total Petroleum Hydrocarbons
FO: Fuel Oil
PCBs: Polychlorinated Biphenyls
PAHs: Polynuclear Aromatic Hydrocarbons
BTEX: Benzene, Toluene, Ethylbenzene, Xylenes
MTBE: Methyl t-butyl ether
FD: Field duplicate of previous numbered sample, (1), (2), etc.
QC: QC split duplicate of previous numbered sample, (1), (2), etc.

General Chemistry Parameters

(1) Total Dissolved Solids (160.1)
(2) Alkalinity (310.1)
(3) Anions (300.0)
(4) Fluoride (340.2)
(5) Nitrate-N (353.2)
(6) Nitrate/Nitrite-N (353.2)
(7) Hardness (SM 2340B)
(8) Cyanide (335.2)
(9) Surfactants (425.1)
(10) Oil & Grease (1664A)
(11) Phenolics (420.1)
(12) Sulfide (376.2)
(13) Total Organic Carbon (415.2)
(14) pH (SW9040B)

Table 2
Qualified Data Summary
First Quarter 2006 Groundwater Sampling Event
The Presidio of San Francisco, CA

Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
LF5GW104	185381-011	8081A	4,4'-DDT	UJ	Continuing calibration verification percent difference failure
LF5GW104	185381-011	6020A	Calcium, dissolved	J	ICP serial dilution failure
DUP0307063B	185381-012	8081A	4,4'-DDT	UJ	Continuing calibration verification percent difference failure
DUP0307063B	185381-012	6020A	Calcium, dissolved	J	ICP serial dilution failure
1349MW102	185381-013	8081A	4,4'-DDT	UJ	Continuing calibration verification percent difference failure
1349MW102	185381-013	6020A	Calcium, dissolved	J	ICP serial dilution failure
DUP0307063C	185381-014	8081A	4,4'-DDT	UJ	Continuing calibration verification percent difference failure
DUP0307063C	185381-014	6020A	Calcium, dissolved	J	ICP serial dilution failure
DAESP03	185408-008	8081A	4,4'-DDT	UJ	Continuing calibration verification percent difference failure
DAESP03	185408-008	8310	Benzo(a)pyrene	UJ	MS/MSD percent recovery failure
DUP0308063A	185408-009	8081A	4,4'-DDT	UJ	Continuing calibration verification percent difference failure
LF5GW103	185457-001	8081A	4,4'-DDT	UJ	Continuing calibration verification percent difference failure
LF5GW103	185457-001	6020A	Barium, dissolved	J	ICP serial dilution failure
LF5GW103	185457-001	6020A	Iron, dissolved	UJ	ICP serial dilution failure
LF5GW103	185457-001	6020A	Potassium, dissolved	J	ICP serial dilution failure
LF5GW102	185457-002	8081A	4,4'-DDT	UJ	Continuing calibration verification percent difference failure
LF5GW102	185457-002	6020A	Barium, dissolved	UJ	ICP serial dilution failure
LF5GW102	185457-002	6020A	Iron, dissolved	UJ	ICP serial dilution failure
LF5GW102	185457-002	6020A	Potassium, dissolved	J	ICP serial dilution failure
1349MW104	185457-005	8081A	4,4'-DDT	UJ	Initial calibration percent relative standard deviation failure
1349MW104	185457-005	6020A	Barium, dissolved	J	ICP serial dilution failure
1349MW104	185457-005	6020A	Iron, dissolved	J	ICP serial dilution failure
1349MW104	185457-005	6020A	Potassium, dissolved	J	ICP serial dilution failure
1349MW103	185457-006	8081A	4,4'-DDT	UJ	Initial calibration percent relative standard deviation failure
1349MW103	185457-006	6020A	Barium, dissolved	J	ICP serial dilution failure
1349MW103	185457-006	6020A	Iron, dissolved	J	ICP serial dilution failure
1349MW103	185457-006	6020A	Potassium, dissolved	J	ICP serial dilution failure
LF5GW101	185457-007	8081A	4,4'-DDT	UJ	Initial calibration percent relative standard deviation failure
LF5GW101	185457-007	6020A	Barium, dissolved	J	ICP serial dilution failure

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Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
LF5GW101	185457-007	6020A	Iron, dissolved	UJ	ICP serial dilution failure
LF5GW101	185457-007	6020A	Potassium, dissolved	J	ICP serial dilution failure
LF5GW100	185457-008	8081A	4,4'-DDT	UJ	Initial calibration percent relative standard deviation failure
LF5GW100	185457-008	6020A	Barium, dissolved	J	ICP serial dilution failure
LF5GW100	185457-008	6020A	Iron, dissolved	UJ	ICP serial dilution failure
LF5GW100	185457-008	6020A	Potassium, dissolved	J	ICP serial dilution failure
231GW10	185457-009	6020A	Calcium, dissolved	J	ICP serial dilution failure
231GW10	185457-009	376.2	Sulfide	UJ	MS/MSD percent recovery failure
231GW30	185457-010	6020A	Calcium, dissolved	J	ICP serial dilution failure
231GW30	185457-010	376.2	Sulfide	UJ	MS/MSD percent recovery failure
231GW22	185457-011	6020A	Calcium, dissolved	J	ICP serial dilution failure
231GW22	185457-011	376.2	Sulfide	UJ	MS/MSD percent recovery failure
DUP0309061A	185457-012	6020A	Calcium, dissolved	J	ICP serial dilution failure
DUP0309061A	185457-012	376.2	Sulfide	UJ	MS/MSD percent recovery failure
231GW16	185457-013	6020A	Calcium, dissolved	J	ICP serial dilution failure
231GW16	185457-013	376.2	Sulfide	J-	MS/MSD percent recovery failure
1065PZ4A	185457-014	6020A	Potassium, dissolved	J	ICP serial dilution failure
1065PZ4A	185457-014	376.2	Sulfide	UJ	MS/MSD percent recovery failure
1349MW02	185457-016	8081A	4,4'-DDT	UJ	Continuing calibration verification percent difference failure
1349MW02	185457-016	6020A	Barium, dissolved	J	ICP serial dilution failure
1349MW02	185457-016	6020A	Iron, dissolved	J	ICP serial dilution failure
1349MW02	185457-016	6020A	Potassium, dissolved	J	ICP serial dilution failure
231PZ02	185457-017	6020A	Calcium, dissolved	J	ICP serial dilution failure
231PZ02	185457-017	376.2	Sulfide	J-	MS/MSD percent recovery failure
1065PZ3B	185457-021	6020A	Potassium, dissolved	UJ	ICP serial dilution failure
1065PZ3B	185457-021	376.2	Sulfide	UJ	MS/MSD percent recovery failure
1065MW9B	185457-022	6020A	Potassium, dissolved	J	ICP serial dilution failure
1065MW9B	185457-022	376.2	Sulfide	UJ	MS/MSD percent recovery failure
1065MW9A	185457-023	6020A	Potassium, dissolved	J	ICP serial dilution failure

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Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
1065MW9A	185457-023	376.2	Sulfide	J-	MS/MSD percent recovery failure
DUP0309062B	185457-024	6020A	Potassium, dissolved	J	ICP serial dilution failure
DUP0309062B	185457-024	376.2	Sulfide	UJ	MS/MSD percent recovery failure
1065MW11A	185457-025	6020A	Potassium, dissolved	UJ	ICP serial dilution failure
1065MW11A	185457-025	376.2	Sulfide	UJ	MS/MSD percent recovery failure
1065MW10B	185457-026	6020A	Potassium, dissolved	J	ICP serial dilution failure
1065MW10B	185457-026	376.2	Sulfide	UJ	MS/MSD percent recovery failure
1065PZ6B	185457-027	6020A	Potassium, dissolved	J	ICP serial dilution failure
1065PZ6B	185457-027	376.2	Sulfide	UJ	MS/MSD percent recovery failure
NKGW03	185463-001	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
1065PZ4B	185511-001	376.2	Sulfide	UJ	MS/MSD percent recovery failure
1065PZ5B	185511-002	376.2	Sulfide	UJ	MS/MSD percent recovery failure
1065MW101	185511-009	376.2	Sulfide	UJ	MS/MSD percent recovery failure
1065PZ2A	185511-010	300.1	Nitrogen, Nitrate	UJ	Missed analysis holding time
1065PZ2A	185511-010	300.1	Nitrogen, Nitrite	UJ	Missed analysis holding time
1065PZ2A	185511-010	376.2	Sulfide	UJ	MS/MSD percent recovery failure
1065PZ3A	185511-011	300.1	Nitrogen, Nitrate	J-	Missed analysis holding time
1065PZ3A	185511-011	300.1	Nitrogen, Nitrite	UJ	Missed analysis holding time
1065PZ3A	185511-011	376.2	Sulfide	UJ	MS/MSD percent recovery failure
DW031306A	185511-012	300.1	Nitrogen, Nitrate	UJ	Missed analysis holding time
DW031306A	185511-012	300.1	Nitrogen, Nitrite	UJ	Missed analysis holding time
DW031306A	185511-012	376.2	Sulfide	UJ	MS/MSD percent recovery failure
DW031306B	185511-013	300.1	Nitrogen, Nitrate	UJ	Missed analysis holding time
DW031306B	185511-013	300.1	Nitrogen, Nitrite	UJ	Missed analysis holding time
DW031306B	185511-013	376.2	Sulfide	UJ	MS/MSD percent recovery failure
DAEGW103	185558-015	425.1	Surfactants	UJ	MS/MSD percent recovery failure
600GW109	185558-016	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
1065MW102	185558-017	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
1065PZ1A	185558-018	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure

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Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
231PZ04	185558-019	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
231PZ03	185558-020	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
937GW07	185558-021	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
231PZ01	185558-022	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
937GW06	185558-023	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
937GW32R	185558-025	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
231GW15	185558-026	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
231GW13	185558-027	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
600GW102	185586-001	6020A	Iron, dissolved	J	ICP serial dilution failure
600GW102	185586-001	6020A	Potassium, dissolved	J	ICP serial dilution failure
600GW102	185586-001	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
600GW103	185586-002	6020A	Iron, dissolved	J	ICP serial dilution failure
600GW103	185586-002	6020A	Potassium, dissolved	J	ICP serial dilution failure
600GW103	185586-002	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
600GW104	185586-003	6020A	Iron, dissolved	J	ICP serial dilution failure
600GW104	185586-003	6020A	Potassium, dissolved	J	ICP serial dilution failure
600GW104	185586-003	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
DAEGW07	185586-009	8270C	bis(2-Chloroisopropyl)ether	UJ	Continuing calibration verification percent difference failure
DAEGW07	185586-009	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
BB3PZ102	185586-010	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
BB3SW102	185586-011	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
TB0315063A	185586-012	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
1065PZ7A	185586-015	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
1065PZ7B	185586-016	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
231GW09	185586-017	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
231GW09	185586-017	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
231GW11	185586-018	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
231GW11	185586-018	6020A	Iron, dissolved	J	ICP serial dilution failure
231GW11	185586-018	6020A	Potassium, dissolved	J	ICP serial dilution failure

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Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
231GW11	185586-018	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
231GW23	185586-019	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
231GW23	185586-019	6020A	Iron, dissolved	J	ICP serial dilution failure
231GW23	185586-019	6020A	Potassium, dissolved	J	ICP serial dilution failure
231GW23	185586-019	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
231GW25	185586-020	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
231GW25	185586-020	6020A	Iron, dissolved	J	ICP serial dilution failure
231GW25	185586-020	6020A	Potassium, dissolved	J	ICP serial dilution failure
231GW25	185586-020	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
231GW28	185586-021	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
231GW28	185586-021	8260B	Methyl tertiary-butyl ether	J+	Surrogate percent recovery failure
231GW28	185586-021	6020A	Iron, dissolved	J	ICP serial dilution failure
231GW28	185586-021	6020A	Potassium, dissolved	J	ICP serial dilution failure
231GW28	185586-021	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
231GW27	185586-022	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
231GW27	185586-022	8260B	Chloroform	J+	Surrogate percent recovery failure
231GW27	185586-022	6020A	Iron, dissolved	UJ	ICP serial dilution failure
231GW27	185586-022	6020A	Potassium, dissolved	J	ICP serial dilution failure
231GW27	185586-022	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
231GW20	185586-023	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
231GW20	185586-023	6020A	Iron, dissolved	UJ	ICP serial dilution failure
231GW20	185586-023	6020A	Potassium, dissolved	J	ICP serial dilution failure
231GW20	185586-023	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
231GW18	185586-024	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
231GW18	185586-024	8260B	Chloroform	J+	Surrogate percent recovery failure
231GW18	185586-024	6020A	Iron, dissolved	UJ	ICP serial dilution failure
231GW18	185586-024	6020A	Potassium, dissolved	J	ICP serial dilution failure
231GW18	185586-024	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
231GW17	185586-025	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure

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Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
231GW17	185586-025	8260B	Chloroform	J+	Surrogate percent recovery failure
231GW17	185586-025	6020A	Iron, dissolved	UJ	ICP serial dilution failure
231GW17	185586-025	6020A	Potassium, dissolved	J	ICP serial dilution failure
231GW17	185586-025	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
231GW06	185586-026	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
231GW06	185586-026	6020A	Iron, dissolved	J	ICP serial dilution failure
231GW06	185586-026	6020A	Potassium, dissolved	J	ICP serial dilution failure
231GW06	185586-026	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
BHWGW01	185622-001	6010B	Aluminum, dissolved	UJ	MS/MSD percent recovery failure
BHWGW05	185622-002	6010B	Aluminum, dissolved	UJ	MS/MSD percent recovery failure
LF08GW02B	185622-003	6010B	Aluminum, dissolved	UJ	MS/MSD percent recovery failure
LF08GW02B	185622-003	6010B	Sodium, dissolved	J	ICP serial dilution failure
LF08GW02B	185622-003	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
LF08GW02B	185622-003	376.2	Sulfide	R	MS/MSD percent recovery failure
LF08GW03	185622-004	6010B	Aluminum, dissolved	UJ	MS/MSD percent recovery failure
LF08GW03	185622-004	6010B	Sodium, dissolved	J	ICP serial dilution failure
LF08GW03	185622-004	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
LF08GW03	185622-004	376.2	Sulfide	R	MS/MSD percent recovery failure
LF08GW04	185622-005	6010B	Aluminum, dissolved	UJ	MS/MSD percent recovery failure
LF08GW04	185622-005	6010B	Sodium, dissolved	J	ICP serial dilution failure
LF08GW04	185622-005	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
LF08GW04	185622-005	376.2	Sulfide	R	MS/MSD percent recovery failure
DUP0316064A	185622-006	6010B	Aluminum, dissolved	UJ	MS/MSD percent recovery failure
DUP0316064A	185622-006	6010B	Sodium, dissolved	J	ICP serial dilution failure
DUP0316064A	185622-006	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
DUP0316064A	185622-006	376.2	Sulfide	R	MS/MSD percent recovery failure
LF08GW02BRB03	185622-007	6010B	Aluminum, dissolved	UJ	MS/MSD percent recovery failure
LF08GW02BRB03	185622-007	6010B	Sodium, dissolved	J	ICP serial dilution failure
LF01GW02	185622-008	6010B	Aluminum, dissolved	UJ	MS/MSD percent recovery failure

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Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
LF01GW02	185622-008	6010B	Sodium, dissolved	J	ICP serial dilution failure
LF01GW02	185622-008	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
231GW26	185622-009	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
231GW26	185622-009	6010B	Aluminum, dissolved	UJ	MS/MSD percent recovery failure
231GW26	185622-009	6010B	Sodium, dissolved	J	ICP serial dilution failure
231GW26	185622-009	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
231GW26	185622-009	376.2	Sulfide	R	MS/MSD percent recovery failure
231GW24	185622-010	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
231GW24	185622-010	6010B	Aluminum, dissolved	UJ	MS/MSD percent recovery failure
231GW24	185622-010	6010B	Sodium, dissolved	J	ICP serial dilution failure
231GW24	185622-010	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
231GW24	185622-010	376.2	Sulfide	R	MS/MSD percent recovery failure
231GW19	185622-011	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
231GW19	185622-011	6010B	Aluminum, dissolved	UJ	MS/MSD percent recovery failure
231GW19	185622-011	6010B	Sodium, dissolved	J	ICP serial dilution failure
231GW19	185622-011	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
231GW19	185622-011	376.2	Sulfide	J-	MS/MSD percent recovery failure
231GW29	185622-012	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
231GW29	185622-012	6010B	Aluminum, dissolved	UJ	MS/MSD percent recovery failure
231GW29	185622-012	6010B	Sodium, dissolved	J	ICP serial dilution failure
231GW29	185622-012	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
231GW29	185622-012	376.2	Sulfide	R	MS/MSD percent recovery failure
BB3PZ101	185622-013	6010B	Aluminum, dissolved	UJ	MS/MSD percent recovery failure
BB3PZ101	185622-013	6010B	Sodium, dissolved	J	ICP serial dilution failure
BB3PZ101	185622-013	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
BB3GW100	185622-014	6010B	Aluminum, dissolved	UJ	MS/MSD percent recovery failure
BB3GW100	185622-014	6010B	Sodium, dissolved	J	ICP serial dilution failure
BB3GW100	185622-014	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
207GW03	185622-015	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure

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207GW03	185622-015	6010B	Aluminum, dissolved	UJ	MS/MSD percent recovery failure
207GW03	185622-015	6010B	Sodium, dissolved	J	ICP serial dilution failure
207GW03	185622-015	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
207GW03	185622-015	376.2	Sulfide	J-	MS/MSD percent recovery failure
1065MW10A	185622-016	6010B	Aluminum, dissolved	UJ	MS/MSD percent recovery failure
1065MW10A	185622-016	6010B	Sodium, dissolved	J	ICP serial dilution failure
1065MW10A	185622-016	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
1065MW10A	185622-016	376.2	Sulfide	R	MS/MSD percent recovery failure
LF02GW01	185622-017	6010B	Aluminum, dissolved	UJ	MS/MSD percent recovery failure
LF02GW01	185622-017	6010B	Sodium, dissolved	J	ICP serial dilution failure
LF02GW01	185622-017	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
EPSP01	185622-018	6010B	Aluminum, dissolved	UJ	MS/MSD percent recovery failure
EPSP01	185622-018	6010B	Magnesium, total	J	ICP serial dilution failure
EPSP01	185622-018	6010B	Potassium, total	UJ	MS/MSD percent recovery failure
EPSP01	185622-018	6010B	Sodium, dissolved	J	ICP serial dilution failure
EPSP01	185622-018	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
TB0316063A	185622-019	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
DAEGW101	185622-020	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
DAEGW101	185622-020	6010B	Magnesium, dissolved	J	ICP serial dilution failure
DAEGW101	185622-020	6010B	Potassium, dissolved	J-	MS/MSD percent recovery failure
DAEGW101	185622-020	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
DAEGW102	185622-021	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
DAEGW102	185622-021	6010B	Magnesium, dissolved	J	ICP serial dilution failure
DAEGW102	185622-021	6010B	Potassium, dissolved	J-	MS/MSD percent recovery failure
DAEGW102	185622-021	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
DAEGW104	185622-022	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
DAEGW104	185622-022	6010B	Magnesium, dissolved	J	ICP serial dilution failure
DAEGW104	185622-022	6010B	Potassium, dissolved	J-	MS/MSD percent recovery failure
DAEGW104	185622-022	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure

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Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
DAEGW06	185622-023	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
DAEGW06	185622-023	6010B	Magnesium, dissolved	J	ICP serial dilution failure
DAEGW06	185622-023	6010B	Potassium, dissolved	J-	MS/MSD percent recovery failure
DAEGW06	185622-023	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
1349MW01	185622-024	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
1349MW01	185622-024	6010B	Magnesium, dissolved	J	ICP serial dilution failure
1349MW01	185622-024	6010B	Potassium, dissolved	J-	MS/MSD percent recovery failure
1349MW01	185622-024	160.1	Total Dissolved Solids	J	Laboratory duplicate relative percent difference failure
1349MW03R	185622-025	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
1349MW03R	185622-025	6010B	Magnesium, dissolved	J	ICP serial dilution failure
1349MW03R	185622-025	6010B	Potassium, dissolved	J-	MS/MSD percent recovery failure
1349MW100	185622-026	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
1349MW100	185622-026	8081A	Dieldrin	J-	Surrogate percent recovery failure
1349MW100	185622-026	8081A	4,4'-DDE	UJ	Surrogate percent recovery failure
1349MW100	185622-026	8081A	Endrin	UJ	Surrogate percent recovery failure
1349MW100	185622-026	8081A	Endosulfan II	UJ	Surrogate percent recovery failure
1349MW100	185622-026	8081A	4,4'-DDD	J-	Surrogate percent recovery failure
1349MW100	185622-026	8081A	Endosulfan sulfate	UJ	Surrogate percent recovery failure
1349MW100	185622-026	8081A	4,4'-DDT	UJ	Surrogate percent recovery failure
1349MW100	185622-026	8081A	Methoxychlor	UJ	Surrogate percent recovery failure
1349MW100	185622-026	8081A	Endrin ketone	UJ	Surrogate percent recovery failure
1349MW100	185622-026	8081A	alpha-Chlordane	J-	Surrogate percent recovery failure
1349MW100	185622-026	8081A	gamma-Chlordane	J-	Surrogate percent recovery failure
1349MW100	185622-026	8081A	Toxaphene	UJ	Surrogate percent recovery failure
1349MW100	185622-026	6010B	Magnesium, dissolved	J	ICP serial dilution failure
1349MW100	185622-026	6010B	Potassium, dissolved	J-	MS/MSD percent recovery failure
1349MW101	185622-027	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
1349MW101	185622-027	6010B	Magnesium, dissolved	J	ICP serial dilution failure
1349MW101	185622-027	6010B	Potassium, dissolved	J-	MS/MSD percent recovery failure

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Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
LF10GW03	185622-028	6010B	Magnesium, dissolved	J	ICP serial dilution failure
LF10GW03	185622-028	6010B	Potassium, dissolved	UJ	MS/MSD percent recovery failure
LF10GW100	185622-029	6010B	Magnesium, dissolved	J	ICP serial dilution failure
LF10GW100	185622-029	6010B	Potassium, dissolved	UJ	MS/MSD percent recovery failure
LF6GW101	185622-030	8082	PCB-1248	UJ	Surrogate percent recovery failure
LF6GW101	185622-030	8082	PCB-1254	UJ	Surrogate percent recovery failure
LF6GW101	185622-030	8082	PCB-1260	UJ	Surrogate percent recovery failure
LF6GW101	185622-030	6010B	Magnesium, dissolved	J	ICP serial dilution failure
LF6GW101	185622-030	6010B	Potassium, dissolved	UJ	MS/MSD percent recovery failure
LF6GW101	185622-030	376.2	Sulfide	R	MS/MSD percent recovery failure
LF6GW104	185622-031	6010B	Magnesium, dissolved	J	ICP serial dilution failure
LF6GW104	185622-031	6010B	Potassium, dissolved	UJ	MS/MSD percent recovery failure
LF6GW104	185622-031	376.2	Sulfide	R	MS/MSD percent recovery failure
TB0317061A	185622-032	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
LF08GW01	185622-033	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
LF08GW01	185622-033	8082	PCB-1248	UJ	Surrogate percent recovery failure
LF08GW01	185622-033	8082	PCB-1254	UJ	Surrogate percent recovery failure
LF08GW01	185622-033	8082	PCB-1260	UJ	Surrogate percent recovery failure
LF08GW01	185622-033	6010B	Magnesium, dissolved	J	ICP serial dilution failure
LF08GW01	185622-033	6010B	Potassium, dissolved	J-	MS/MSD percent recovery failure
LF08GW01	185622-033	376.2	Sulfide	R	MS/MSD percent recovery failure
LF08GW06	185622-034	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
LF08GW06	185622-034	8082	PCB-1248	UJ	Surrogate percent recovery failure
LF08GW06	185622-034	8082	PCB-1254	UJ	Surrogate percent recovery failure
LF08GW06	185622-034	8082	PCB-1260	UJ	Surrogate percent recovery failure
LF08GW06	185622-034	6010B	Magnesium, dissolved	J	ICP serial dilution failure
LF08GW06	185622-034	6010B	Potassium, dissolved	J-	MS/MSD percent recovery failure
LF08GW06	185622-034	376.2	Sulfide	R	MS/MSD percent recovery failure
LF08GW06RB01	185622-035	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure

Table 2
Qualified Data Summary
First Quarter 2006 Groundwater Sampling Event
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Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
LF08GW06RB01	185622-035	8082	PCB-1248	UJ	Surrogate percent recovery failure
LF08GW06RB01	185622-035	8082	PCB-1254	UJ	Surrogate percent recovery failure
LF08GW06RB01	185622-035	8082	PCB-1260	UJ	Surrogate percent recovery failure
LF08GW06RB01	185622-035	6010B	Magnesium, dissolved	UJ	ICP serial dilution failure
LF08GW06RB01	185622-035	6010B	Potassium, dissolved	UJ	MS/MSD percent recovery failure
LF08GW06RB01	185622-035	376.2	Sulfide	R	MS/MSD percent recovery failure
LF6GW100	185622-036	8081A	Dieldrin	UJ	Surrogate percent recovery failure
LF6GW100	185622-036	8081A	4,4'-DDE	UJ	Surrogate percent recovery failure
LF6GW100	185622-036	8081A	Endrin	UJ	Surrogate percent recovery failure
LF6GW100	185622-036	8081A	Endosulfan II	UJ	Surrogate percent recovery failure
LF6GW100	185622-036	8081A	4,4'-DDD	UJ	Surrogate percent recovery failure
LF6GW100	185622-036	8081A	Endosulfan sulfate	UJ	Surrogate percent recovery failure
LF6GW100	185622-036	8081A	4,4'-DDT	UJ	Surrogate percent recovery failure
LF6GW100	185622-036	8081A	Methoxychlor	UJ	Surrogate percent recovery failure
LF6GW100	185622-036	8081A	Endrin ketone	UJ	Surrogate percent recovery failure
LF6GW100	185622-036	8081A	alpha-Chlordane	UJ	Surrogate percent recovery failure
LF6GW100	185622-036	8081A	gamma-Chlordane	UJ	Surrogate percent recovery failure
LF6GW100	185622-036	8081A	Toxaphene	UJ	Surrogate percent recovery failure
LF6GW100	185622-036	8082	PCB-1248	UJ	Surrogate percent recovery failure
LF6GW100	185622-036	8082	PCB-1254	UJ	Surrogate percent recovery failure
LF6GW100	185622-036	8082	PCB-1260	UJ	Surrogate percent recovery failure
LF6GW100	185622-036	6010B	Magnesium, dissolved	J	ICP serial dilution failure
LF6GW100	185622-036	6010B	Potassium, dissolved	J-	MS/MSD percent recovery failure
LF6GW100	185622-036	376.2	Sulfide	J-	MS/MSD percent recovery failure
LF6GW103	185622-037	8081A	Dieldrin	UJ	Surrogate percent recovery failure
LF6GW103	185622-037	8081A	4,4'-DDE	UJ	Surrogate percent recovery failure
LF6GW103	185622-037	8081A	Endrin	UJ	Surrogate percent recovery failure
LF6GW103	185622-037	8081A	Endosulfan II	UJ	Surrogate percent recovery failure
LF6GW103	185622-037	8081A	4,4'-DDD	UJ	Surrogate percent recovery failure

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Qualified Data Summary
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Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
LF6GW103	185622-037	8081A	Endosulfan sulfate	UJ	Surrogate percent recovery failure
LF6GW103	185622-037	8081A	4,4'-DDT	UJ	Surrogate percent recovery failure
LF6GW103	185622-037	8081A	Methoxychlor	UJ	Surrogate percent recovery failure
LF6GW103	185622-037	8081A	Endrin ketone	UJ	Surrogate percent recovery failure
LF6GW103	185622-037	8081A	alpha-Chlordane	UJ	Surrogate percent recovery failure
LF6GW103	185622-037	8081A	gamma-Chlordane	UJ	Surrogate percent recovery failure
LF6GW103	185622-037	8081A	Toxaphene	UJ	Surrogate percent recovery failure
LF6GW103	185622-037	8082	PCB-1248	UJ	Surrogate percent recovery failure
LF6GW103	185622-037	8082	PCB-1254	UJ	Surrogate percent recovery failure
LF6GW103	185622-037	8082	PCB-1260	UJ	Surrogate percent recovery failure
LF6GW103	185622-037	6010B	Magnesium, dissolved	J	ICP serial dilution failure
LF6GW103	185622-037	6010B	Potassium, dissolved	UJ	MS/MSD percent recovery failure
LF6GW103	185622-037	376.2	Sulfide	R	MS/MSD percent recovery failure
NKGW04	185679-004	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
NKGW04	185679-004	8260B	Acetone	UJ	Continuing calibration verification percent difference failure
NKGW04	185679-004	8260B	Vinyl acetate	UJ	Continuing calibration verification percent difference failure
NKGW04	185679-004	1625C Modified	N-Nitrosodimethylamine	J-	Labeled compound percent recovery failure
DUP0320061A	185679-005	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
DUP0320061A	185679-005	8260B	Acetone	UJ	Continuing calibration verification percent difference failure
DUP0320061A	185679-005	8260B	Vinyl acetate	UJ	Continuing calibration verification percent difference failure
LF6GW105	185679-006	376.2	Sulfide	R	MS/MSD percent recovery failure
LF6GW106	185679-007	376.2	Sulfide	R	MS/MSD percent recovery failure
1349MW105	185679-008	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
1349MW105	185679-008	8260B	Acetone	UJ	Continuing calibration verification percent difference failure
1349MW105	185679-008	8260B	Vinyl acetate	UJ	Continuing calibration verification percent difference failure
1349MW105	185679-008	8081A	4,4'-DDT	UJ	Continuing calibration verification percent difference failure
1349MW105	185679-008	8081A	Methoxychlor	UJ	Continuing calibration verification percent difference failure
600GW107	185679-009	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
600GW107	185679-009	8260B	Acetone	UJ	Continuing calibration verification percent difference failure

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Qualified Data Summary
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Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
600GW107	185679-009	8260B	Vinyl acetate	UJ	Continuing calibration verification percent difference failure
600GW107	185679-009	6010B	Aluminum, dissolved	UJ	MS/MSD relative percent difference failure
600GW107	185679-009	376.2	Sulfide	R	MS/MSD percent recovery failure
TB0320063A	185679-018	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
TB0320063A	185679-018	8260B	Acetone	UJ	Continuing calibration verification percent difference failure
TB0320063A	185679-018	8260B	Vinyl acetate	UJ	Continuing calibration verification percent difference failure
LF5SP100	185679-019	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
LF5SP100	185679-019	8260B	Acetone	UJ	Continuing calibration verification percent difference failure
LF5SP100	185679-019	8260B	Vinyl acetate	UJ	Continuing calibration verification percent difference failure
LF5SP100	185679-019	8081A	4,4'-DDT	UJ	Continuing calibration verification percent difference failure
LF5SP100	185679-019	8081A	Methoxychlor	UJ	Continuing calibration verification percent difference failure
LF5SP100	185679-019	6010B	Aluminum, total	J	MS/MSD relative percent difference failure
610SP01	185679-020	6010B	Aluminum, dissolved	UJ	MS/MSD relative percent difference failure
610SP01	185679-020	6010B	Aluminum, total	J	MS/MSD relative percent difference failure
610SP01	185679-020	160.1	Total Dissolved Solids	J-	Missed analysis holding time
610SP01	185679-020	376.2	Sulfide	R	MS/MSD percent recovery failure
610SP02	185679-021	6010B	Aluminum, dissolved	UJ	MS/MSD relative percent difference failure
610SP02	185679-021	6010B	Aluminum, total	J	MS/MSD relative percent difference failure
610SP02	185679-021	376.2	Sulfide	R	MS/MSD percent recovery failure
TB0321063A	185679-022	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
TB0321063A	185679-022	8260B	Acetone	UJ	Continuing calibration verification percent difference failure
TB0321063A	185679-022	8260B	Vinyl acetate	UJ	Continuing calibration verification percent difference failure
1047MW101CL	DH005-001	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
LF5GW104CL	DH005-005	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
1349MW102CL	DH005-006	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
DAESP03CL	DH005-002	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
231GW21CL	DH005-004	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
1065PZ5ARCL	DH005-002	8015B	TPH-Diesel	J+	Continuing calibration verification percent difference failure
1349MW102CL	DH005-006	8015B	TPH-Diesel	J+	Continuing calibration verification percent difference failure

Table 2
Qualified Data Summary
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Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
DAESP03CL	DH009-002	8015B	TPH-Diesel	J+	Continuing calibration verification percent difference failure
231GW21CL	DH009-004	8015B	TPH-Diesel	J+	Continuing calibration verification percent difference failure
LF4GW103CL	DH005-004	8082	PCB-1016	UJ	Surrogate percent recovery failure
LF4GW103CL	DH005-004	8082	PCB-1221	UJ	Surrogate percent recovery failure
LF4GW103CL	DH005-004	8082	PCB-1232	UJ	Surrogate percent recovery failure
LF4GW103CL	DH005-004	8082	PCB-1242	UJ	Surrogate percent recovery failure
LF4GW103CL	DH005-004	8082	PCB-1248	UJ	Surrogate percent recovery failure
LF4GW103CL	DH005-004	8082	PCB-1254	UJ	Surrogate percent recovery failure
LF4GW103CL	DH005-004	8082	PCB-1260	UJ	Surrogate percent recovery failure
1349MW102CL	DH005-006	8082	PCB-1016	UJ	Surrogate percent recovery failure
1349MW102CL	DH005-006	8082	PCB-1221	UJ	Surrogate percent recovery failure
1349MW102CL	DH005-006	8082	PCB-1232	UJ	Surrogate percent recovery failure
1349MW102CL	DH005-006	8082	PCB-1242	UJ	Surrogate percent recovery failure
1349MW102CL	DH005-006	8082	PCB-1248	R	Surrogate percent recovery failure
1349MW102CL	DH005-006	8082	PCB-1254	R	Surrogate percent recovery failure
1349MW102CL	DH005-006	8082	PCB-1260	R	Surrogate percent recovery failure
DAESP03CL	DH009-002	8082	PCB-1248	R	Surrogate percent recovery failure
DAESP03CL	DH009-002	8082	PCB-1254	R	Surrogate percent recovery failure
DAESP03CL	DH009-002	8082	PCB-1260	R	Surrogate percent recovery failure
1349MW102CL	DH005-006	8310	Acenaphthene	UJ	Surrogate percent recovery failure
1349MW102CL	DH005-006	8310	Acenaphthylene	UJ	Surrogate percent recovery failure
1349MW102CL	DH005-006	8310	Anthracene	UJ	Surrogate percent recovery failure
1349MW102CL	DH005-006	8310	Benzo(a)anthracene	UJ	Surrogate percent recovery failure
1349MW102CL	DH005-006	8310	Benzo(a)pyrene	UJ	Surrogate percent recovery failure
1349MW102CL	DH005-006	8310	Benzo(b)fluoranthene	UJ	Surrogate percent recovery failure
1349MW102CL	DH005-006	8310	Benzo(g,h,i)perylene	UJ	Surrogate percent recovery failure
1349MW102CL	DH005-006	8310	Benzo(k)fluoranthene	UJ	Surrogate percent recovery failure
1349MW102CL	DH005-006	8310	Chrysene	UJ	Surrogate percent recovery failure
1349MW102CL	DH005-006	8310	Dibenz(a,h)anthracene	UJ	Surrogate percent recovery failure

Table 2
Qualified Data Summary
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Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
1349MW102CL	DH005-006	8310	Fluoranthene	UJ	Surrogate percent recovery failure
1349MW102CL	DH005-006	8310	Fluorene	UJ	Surrogate percent recovery failure
1349MW102CL	DH005-006	8310	Ideno(1,2,3-cd)pyrene	UJ	Surrogate percent recovery failure
1349MW102CL	DH005-006	8310	Naphthalene	UJ	Surrogate percent recovery failure
1349MW102CL	DH005-006	8310	Phenanthrene	UJ	Surrogate percent recovery failure
1349MW102CL	DH005-006	8310	Pyrene	UJ	Surrogate percent recovery failure
LF5GW104CL	DH005-005	8081A	Dieldrin	UJ	Surrogate percent recovery failure
LF5GW104CL	DH005-005	8081A	4,4'-DDE	UJ	Surrogate percent recovery failure
LF5GW104CL	DH005-005	8081A	Endrin	UJ	Surrogate percent recovery failure
LF5GW104CL	DH005-005	8081A	Endosulfan II	UJ	Surrogate percent recovery failure
LF5GW104CL	DH005-005	8081A	4,4'-DDD	UJ	Surrogate percent recovery failure
LF5GW104CL	DH005-005	8081A	Endosulfan sulfate	UJ	Surrogate percent recovery failure
LF5GW104CL	DH005-005	8081A	4,4'-DDT	UJ	Surrogate percent recovery failure
LF5GW104CL	DH005-005	8081A	Methoxychlor	UJ	Surrogate percent recovery failure
LF5GW104CL	DH005-005	8081A	Endrin ketone	UJ	Surrogate percent recovery failure
LF5GW104CL	DH005-005	8081A	alpha-Chlordane	UJ	Surrogate percent recovery failure
LF5GW104CL	DH005-005	8081A	gamma-Chlordane	UJ	Surrogate percent recovery failure
LF5GW104CL	DH005-005	8081A	Toxaphene	UJ	Surrogate percent recovery failure
1349MW102CL	DH005-006	8081A	Dieldrin	R	Surrogate percent recovery failure
1349MW102CL	DH005-006	8081A	4,4'-DDE	R	Surrogate percent recovery failure
1349MW102CL	DH005-006	8081A	Endrin	R	Surrogate percent recovery failure
1349MW102CL	DH005-006	8081A	Endosulfan II	R	Surrogate percent recovery failure
1349MW102CL	DH005-006	8081A	4,4'-DDD	R	Surrogate percent recovery failure
1349MW102CL	DH005-006	8081A	Endosulfan sulfate	R	Surrogate percent recovery failure
1349MW102CL	DH005-006	8081A	4,4'-DDT	R	Surrogate percent recovery failure
1349MW102CL	DH005-006	8081A	Methoxychlor	R	Surrogate percent recovery failure
1349MW102CL	DH005-006	8081A	Endrin ketone	R	Surrogate percent recovery failure
1349MW102CL	DH005-006	8081A	alpha-Chlordane	R	Surrogate percent recovery failure
1349MW102CL	DH005-006	8081A	gamma-Chlordane	R	Surrogate percent recovery failure

Table 2
Qualified Data Summary
First Quarter 2006 Groundwater Sampling Event
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Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
1349MW102CL	DH005-006	8081A	Toxaphene	R	Surrogate percent recovery failure
1349MW102CL	DH005-006	8081A	alpha-BHC	UJ	Surrogate percent recovery failure
1349MW102CL	DH005-006	8081A	beta-BHC	UJ	Surrogate percent recovery failure
1349MW102CL	DH005-006	8081A	delta-BHC	UJ	Surrogate percent recovery failure
1349MW102CL	DH005-006	8081A	gamma-BHC	UJ	Surrogate percent recovery failure
1349MW102CL	DH005-006	8081A	Heptachlor	UJ	Surrogate percent recovery failure
1349MW102CL	DH005-006	8081A	Aldrin	UJ	Surrogate percent recovery failure
1349MW102CL	DH005-006	8081A	Heptachlor epoxide	UJ	Surrogate percent recovery failure
1349MW102CL	DH005-006	8081A	Endosulfan I	UJ	Surrogate percent recovery failure
DAESP03CL	DH009-002	8081A	Dieldrin	R	Surrogate percent recovery failure
DAESP03CL	DH009-002	8081A	4,4'-DDE	R	Surrogate percent recovery failure
DAESP03CL	DH009-002	8081A	Endrin	R	Surrogate percent recovery failure
DAESP03CL	DH009-002	8081A	Endosulfan II	R	Surrogate percent recovery failure
DAESP03CL	DH009-002	8081A	4,4'-DDD	R	Surrogate percent recovery failure
DAESP03CL	DH009-002	8081A	Endosulfan sulfate	R	Surrogate percent recovery failure
DAESP03CL	DH009-002	8081A	4,4'-DDT	R	Surrogate percent recovery failure
DAESP03CL	DH009-002	8081A	Methoxychlor	R	Surrogate percent recovery failure
DAESP03CL	DH009-002	8081A	Endrin ketone	R	Surrogate percent recovery failure
DAESP03CL	DH009-002	8081A	alpha-Chlordane	R	Surrogate percent recovery failure
DAESP03CL	DH009-002	8081A	gamma-Chlordane	R	Surrogate percent recovery failure
DAESP03CL	DH009-002	8081A	Toxaphene	R	Surrogate percent recovery failure
DAESP03CL	DH009-002	8081A	alpha-BHC	UJ	Surrogate percent recovery failure
DAESP03CL	DH009-002	8081A	beta-BHC	UJ	Surrogate percent recovery failure
DAESP03CL	DH009-002	8081A	delta-BHC	UJ	Surrogate percent recovery failure
DAESP03CL	DH009-002	8081A	gamma-BHC	UJ	Surrogate percent recovery failure
DAESP03CL	DH009-002	8081A	Heptachlor	UJ	Surrogate percent recovery failure
DAESP03CL	DH009-002	8081A	Aldrin	UJ	Surrogate percent recovery failure
DAESP03CL	DH009-002	8081A	Heptachlor epoxide	UJ	Surrogate percent recovery failure
DAESP03CL	DH009-002	8081A	Endosulfan I	UJ	Surrogate percent recovery failure

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Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
DAESP03CL	DH009-002	7470	Mercury, dissolved	UJ	Missed analysis holding time
DAESP03CL	DH009-002	6010B	Iron, dissolved	J+	LCS/LCSD percent recovery failure
DAESP03CL	DH009-002	6010B	Iron, total	J+	LCS/LCSD percent recovery failure
BB3SW104CL	DH009-003	6010B	Iron, total	J+	LCS/LCSD percent recovery failure
231GW21CL	DH009-004	6010B	Iron,dissolved	J+	LCS/LCSD percent recovery failure
1047MW101CI	DH005-001	376.2	Sulfide	UJ	MS/MSD relative percent difference failure
1047MW101CI	DH005-001	160.1	TDS	J+	LCS/LCSD percent recovery failure
1065PZ5ARCL	DH005-002	376.2	Sulfide	UJ	MS/MSD relative percent difference failure
1065PZ5ARCL	DH005-002	160.1	TDS	J+	LCS/LCSD percent recovery failure
610GW103CL	DH005-003	376.2	Sulfide	UJ	MS/MSD relative percent difference failure
610GW103CL	DH005-003	160.1	TDS	J+	LCS/LCSD percent recovery failure
LF4GW103CL	DH005-004	160.1	TDS	J+	LCS/LCSD percent recovery failure
LF5GW104CL	DH005-005	160.1	TDS	J+	LCS/LCSD percent recovery failure
1349MW102CL	DH005-006	160.1	TDS	J+	LCS/LCSD percent recovery failure
231GW21CL	DH009-004	376.2	Sulfide	UJ	MS/MSD relative percent difference failure

Table 3
Summary of Field Duplicates
First Quarter 2006 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	Duplicate Sample ID	Laboratory ID	Duplicate Results*	RPD
1047MW101	185381-001	Water	All VOCs	ND	DUP0307062A	185381-002	ND	NA
1047MW101	185381-001	Water	Gasoline C7-C12	51	DUP0307062A	185381-002	ND< 50	NC
1047MW101	185381-001	Water	Stoddard Solvent C7-C12	ND	DUP0307062A	185381-002	ND	NA
1047MW101	185381-001	Water	Calcium, dissolved	4300	DUP0307062A	185381-002	4400	-2.3%
1047MW101	185381-001	Water	Copper, dissolved	2.3	DUP0307062A	185381-002	2.5	-8.3%
1047MW101	185381-001	Water	Magnesium, dissolved	4500	DUP0307062A	185381-002	4700	-4.3%
1047MW101	185381-001	Water	Potassium, dissolved	1300	DUP0307062A	185381-002	1300	0%
1047MW101	185381-001	Water	Sodium, dissolved	3100	DUP0307062A	185381-002	3200	-3%
1047MW101	185381-001	Water	All other Metals	ND	DUP0307062A	185381-002	ND	NA
1047MW101	185381-001	Water	Alkalinity	30	DUP0307062A	185381-002	29	3.4%
1047MW101	185381-001	Water	Chloride	2.9	DUP0307062A	185381-002	2.9	0%
1047MW101	185381-001	Water	Fluoride	ND	DUP0307062A	185381-002	ND	NA
1047MW101	185381-001	Water	Nitrogen, Nitrate	0.12	DUP0307062A	185381-002	0.12	0%
1047MW101	185381-001	Water	Nitrogen, Nitrite	ND	DUP0307062A	185381-002	ND	NA
1047MW101	185381-001	Water	Sulfate	2.1	DUP0307062A	185381-002	2	4.9%
1047MW101	185381-001	Water	Sulfide	ND	DUP0307062A	185381-002	ND	NA
1047MW101	185381-001	Water	Total Dissolved Solids	180	DUP0307062A	185381-002	130	32%
1065PZ5AR	185381-005	Water	Gasoline C7-C12	ND	DUP0307062B	185381-006	ND	NA
1065PZ5AR	185381-005	Water	Methyl tertiary-butyl ether	ND	DUP0307062B	185381-006	ND	NA
1065PZ5AR	185381-005	Water	Benzene	ND	DUP0307062B	185381-006	ND	NA
1065PZ5AR	185381-005	Water	Toluene	0.54	DUP0307062B	185381-006	ND	NC
1065PZ5AR	185381-005	Water	Ethylbenzene	ND	DUP0307062B	185381-006	ND	NA
1065PZ5AR	185381-005	Water	Xylene (total)	ND	DUP0307062B	185381-006	ND	NA
1065PZ5AR	185381-005	Water	Diesel C12-C24	ND	DUP0307062B	185381-006	ND	NA
1065PZ5AR	185381-005	Water	Fuel oil C24-C36	ND	DUP0307062B	185381-006	ND	NA
1065PZ5AR	185381-005	Water	Arsenic, dissolved	24	DUP0307062B	185381-006	21	13%
1065PZ5AR	185381-005	Water	Calcium, dissolved	70000	DUP0307062B	185381-006	69000	1.4%
1065PZ5AR	185381-005	Water	Iron, dissolved	23000	DUP0307062B	185381-006	19000	19%
1065PZ5AR	185381-005	Water	Magnesium, dissolved	77000	DUP0307062B	185381-006	81000	-5.1%
1065PZ5AR	185381-005	Water	Manganese, dissolved	2000	DUP0307062B	185381-006	2000	0%
1065PZ5AR	185381-005	Water	Potassium, dissolved	5800	DUP0307062B	185381-006	6100	-5.0%
1065PZ5AR	185381-005	Water	Sodium, dissolved	83000	DUP0307062B	185381-006	86000	-3.6%
1065PZ5AR	185381-005	Water	All other Metals	ND	DUP0307062B	185381-006	ND	NA
1065PZ5AR	185381-005	Water	Alkalinity	780	DUP0307062B	185381-006	780	0%
1065PZ5AR	185381-005	Water	Chloride	68	DUP0307062B	185381-006	68	0%
1065PZ5AR	185381-005	Water	Fluoride	0.2	DUP0307062B	185381-006	0.2	0%
1065PZ5AR	185381-005	Water	Nitrogen, Nitrate	ND	DUP0307062B	185381-006	ND	NA
1065PZ5AR	185381-005	Water	Nitrogen, Nitrite	ND	DUP0307062B	185381-006	ND	NA

Table 3
Summary of Field Duplicates
First Quarter 2006 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	Duplicate Sample ID	Laboratory ID	Duplicate Results*	RPD
1065PZ5AR	185381-005	Water	Sulfate	ND	DUP0307062B	185381-006	ND	NA
1065PZ5AR	185381-005	Water	Sulfide	ND	DUP0307062B	185381-006	ND	NA
1065PZ5AR	185381-005	Water	Total Dissolved Solids	820	DUP0307062B	185381-006	950	-15%
1065PZ5AR	185381-005	Water	Total Organic Carbon	42	DUP0307062B	185381-006	42	0%
LF4GW103	185381-008	Water	All PCBs	ND	DUP0307063A	185381-009	ND	NA
LF4GW103	185381-008	Water	Calcium, dissolved	140000	DUP0307063A	185381-009	140000	0%
LF4GW103	185381-008	Water	Copper, dissolved	2.3	DUP0307063A	185381-009	2.1	9.1%
LF4GW103	185381-008	Water	Iron, dissolved	510	DUP0307063A	185381-009	470	8.2%
LF4GW103	185381-008	Water	Magnesium, dissolved	390000	DUP0307063A	185381-009	400000	-2.5%
LF4GW103	185381-008	Water	Manganese, dissolved	85	DUP0307063A	185381-009	80	6.1%
LF4GW103	185381-008	Water	Nickel, dissolved	150	DUP0307063A	185381-009	150	0%
LF4GW103	185381-008	Water	Potassium, dissolved	2000	DUP0307063A	185381-009	1900	5.1%
LF4GW103	185381-008	Water	Sodium, dissolved	160000	DUP0307063A	185381-009	160000	0%
LF4GW103	185381-008	Water	All other Metals	ND	DUP0307063A	185381-009	ND	NA
LF4GW103	185381-008	Water	Alkalinity	1300	DUP0307063A	185381-009	1300	0%
LF4GW103	185381-008	Water	Chloride	510	DUP0307063A	185381-009	500	2.0%
LF4GW103	185381-008	Water	Fluoride	ND	DUP0307063A	185381-009	ND	NA
LF4GW103	185381-008	Water	Nitrogen, Nitrate	ND	DUP0307063A	185381-009	ND	NA
LF4GW103	185381-008	Water	Nitrogen, Nitrite	ND	DUP0307063A	185381-009	ND	NA
LF4GW103	185381-008	Water	Sulfate	410	DUP0307063A	185381-009	410	0%
LF4GW103	185381-008	Water	Total Dissolved Solids	2890	DUP0307063A	185381-009	2600	11%
LF5GW104	185381-011	Water	All VOCs	ND	DUP0307063B	185381-012	ND	NA
LF5GW104	185381-011	Water	Gasoline C7-C12	ND	DUP0307063B	185381-012	ND	NA
LF5GW104	185381-011	Water	Diesel C12-C24	ND	DUP0307063B	185381-012	50	NC
LF5GW104	185381-011	Water	Fuel oil C24-C36	ND	DUP0307063B	185381-012	ND	NA
LF5GW104	185381-011	Water	All Pesticides	ND	DUP0307063B	185381-012	ND	NA
LF5GW104	185381-011	Water	All PAHs	ND	DUP0307063B	185381-012	ND	NA
LF5GW104	185381-011	Water	Barium, dissolved	110	DUP0307063B	185381-012	110	0%
LF5GW104	185381-011	Water	Calcium, dissolved	31000	DUP0307063B	185381-012	30000	3.3%
LF5GW104	185381-011	Water	Chromium, dissolved	36	DUP0307063B	185381-012	35	2.8%
LF5GW104	185381-011	Water	Iron, dissolved	160	DUP0307063B	185381-012	150	6.5%
LF5GW104	185381-011	Water	Magnesium, dissolved	120000	DUP0307063B	185381-012	110000	8.7%
LF5GW104	185381-011	Water	Potassium, dissolved	930	DUP0307063B	185381-012	930	0%
LF5GW104	185381-011	Water	Sodium, dissolved	130000	DUP0307063B	185381-012	130000	0%
LF5GW104	185381-011	Water	All other Metals	ND	DUP0307063B	185381-012	ND	NA
LF5GW104	185381-011	Water	Alkalinity	420	DUP0307063B	185381-012	370	13%
LF5GW104	185381-011	Water	Chloride	290	DUP0307063B	185381-012	290	0%
LF5GW104	185381-011	Water	Fluoride	ND	DUP0307063B	185381-012	ND	NA

Table 3
Summary of Field Duplicates
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Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	Duplicate Sample ID	Laboratory ID	Duplicate Results*	RPD
LF5GW104	185381-011	Water	Nitrogen, Nitrate	5.9	DUP0307063B	185381-012	6	-1.7%
LF5GW104	185381-011	Water	Nitrogen, Nitrite	ND	DUP0307063B	185381-012	ND	NA
LF5GW104	185381-011	Water	Sulfate	73	DUP0307063B	185381-012	73	0%
LF5GW104	185381-011	Water	Total Dissolved Solids	970	DUP0307063B	185381-012	860	12%
1349MW102	185381-013	Water	All VOCs	ND	DUP0307063C	185381-014	ND	NA
1349MW102	185381-013	Water	Gasoline C7-C12	ND	DUP0307063C	185381-014	ND	NA
1349MW102	185381-013	Water	Diesel C12-C24	ND	DUP0307063C	185381-014	ND	NA
1349MW102	185381-013	Water	Fuel oil C24-C36	ND	DUP0307063C	185381-014	ND	NA
1349MW102	185381-013	Water	All Pesticides	ND	DUP0307063C	185381-014	ND	NA
1349MW102	185381-013	Water	All PCBs	ND	DUP0307063C	185381-014	ND	NA
1349MW102	185381-013	Water	All PAHs	ND	DUP0307063C	185381-014	ND	NA
1349MW102	185381-013	Water	Aluminum, dissolved	ND< 100	DUP0307063C	185381-014	260	**> +/- RL**
1349MW102	185381-013	Water	Barium, dissolved	49	DUP0307063C	185381-014	52	-5.9%
1349MW102	185381-013	Water	Calcium, dissolved	42000	DUP0307063C	185381-014	41000	2.4%
1349MW102	185381-013	Water	Copper, dissolved	ND< 1.0	DUP0307063C	185381-014	1.8	NC
1349MW102	185381-013	Water	Iron, dissolved	190	DUP0307063C	185381-014	530	**-94%**
1349MW102	185381-013	Water	Magnesium, dissolved	98000	DUP0307063C	185381-014	96000	2.1%
1349MW102	185381-013	Water	Manganese, dissolved	140	DUP0307063C	185381-014	150	-6.9%
1349MW102	185381-013	Water	Potassium, dissolved	2700	DUP0307063C	185381-014	2800	-3.6%
1349MW102	185381-013	Water	Sodium, dissolved	190000	DUP0307063C	185381-014	180000	5.4%
1349MW102	185381-013	Water	All other Metals	ND	DUP0307063C	185381-014	ND	NA
1349MW102	185381-013	Water	Alkalinity	470	DUP0307063C	185381-014	500	-6.2%
1349MW102	185381-013	Water	Chloride	240	DUP0307063C	185381-014	240	0%
1349MW102	185381-013	Water	Fluoride	0.25	DUP0307063C	185381-014	0.24	4.1%
1349MW102	185381-013	Water	Nitrogen, Nitrate	2	DUP0307063C	185381-014	2	0%
1349MW102	185381-013	Water	Nitrogen, Nitrite	ND	DUP0307063C	185381-014	ND	NA
1349MW102	185381-013	Water	Sulfate	140	DUP0307063C	185381-014	130	7.4%
1349MW102	185381-013	Water	Total Dissolved Solids	1070	DUP0307063C	185381-014	1000	6.8%
610GW103	185381-017	Water	Gasoline C7-C12	ND	DUP0307061A	185381-018	ND	NA
610GW103	185381-017	Water	Methyl tertiary-butyl ether	ND	DUP0307061A	185381-018	ND	NA
610GW103	185381-017	Water	Benzene	ND	DUP0307061A	185381-018	ND	NA
610GW103	185381-017	Water	Toluene	ND	DUP0307061A	185381-018	ND	NA
610GW103	185381-017	Water	Ethylbenzene	ND	DUP0307061A	185381-018	ND	NA
610GW103	185381-017	Water	Xylene (total)	ND	DUP0307061A	185381-018	ND	NA
610GW103	185381-017	Water	Diesel C12-C24	ND	DUP0307061A	185381-018	ND	NA
610GW103	185381-017	Water	Fuel oil C24-C36	ND	DUP0307061A	185381-018	ND	NA
610GW103	185381-017	Water	Arsenic, dissolved	5.4	DUP0307061A	185381-018	5.7	-5.4%
610GW103	185381-017	Water	Calcium, dissolved	66000	DUP0307061A	185381-018	66000	0%

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Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	Duplicate Sample ID	Laboratory ID	Duplicate Results*	RPD
610GW103	185381-017	Water	Copper, dissolved	1.5	DUP0307061A	185381-018	1.3	14%
610GW103	185381-017	Water	Iron, dissolved	580	DUP0307061A	185381-018	670	-14%
610GW103	185381-017	Water	Magnesium, dissolved	46000	DUP0307061A	185381-018	45000	2.2%
610GW103	185381-017	Water	Manganese, dissolved	810	DUP0307061A	185381-018	870	-7.1%
610GW103	185381-017	Water	Potassium, dissolved	8500	DUP0307061A	185381-018	8400	1.2%
610GW103	185381-017	Water	Sodium, dissolved	89000	DUP0307061A	185381-018	99000	-11%
610GW103	185381-017	Water	All other Metals	ND	DUP0307061A	185381-018	ND	NA
610GW103	185381-017	Water	Alkalinity	430	DUP0307061A	185381-018	420	2.4%
610GW103	185381-017	Water	Chloride	51	DUP0307061A	185381-018	50	2.0%
610GW103	185381-017	Water	Fluoride	0.23	DUP0307061A	185381-018	0.23	0%
610GW103	185381-017	Water	Nitrogen, Nitrate	ND	DUP0307061A	185381-018	ND	NA
610GW103	185381-017	Water	Nitrogen, Nitrite	ND	DUP0307061A	185381-018	ND	NA
610GW103	185381-017	Water	Sulfate	74	DUP0307061A	185381-018	74	0%
610GW103	185381-017	Water	Sulfide	ND	DUP0307061A	185381-018	ND	NA
610GW103	185381-017	Water	Total Dissolved Solids	720	DUP0307061A	185381-018	660	8.7%
610GW103	185381-017	Water	Total Organic Carbon	4.2	DUP0307061A	185381-018	4.3	-2.4%
600GW108	185381-019	Water	All VOCs	ND	DUP0307061B	185381-020	ND	NA
600GW108	185381-019	Water	Gasoline C7-C12	ND	DUP0307061B	185381-020	ND	NA
600GW108	185381-019	Water	Diesel C12-C24	ND	DUP0307061B	185381-020	ND	NA
600GW108	185381-019	Water	Fuel oil C24-C36	ND	DUP0307061B	185381-020	ND	NA
600GW108	185381-019	Water	All PAHs	ND	DUP0307061B	185381-020	ND	NA
600GW108	185381-019	Water	Calcium, dissolved	40000	DUP0307061B	185381-020	40000	0%
600GW108	185381-019	Water	Copper, dissolved	3.1	DUP0307061B	185381-020	1.5	**70%**
600GW108	185381-019	Water	Iron, dissolved	160	DUP0307061B	185381-020	150	6.5%
600GW108	185381-019	Water	Magnesium, dissolved	41000	DUP0307061B	185381-020	40000	2.5%
600GW108	185381-019	Water	Manganese, dissolved	20	DUP0307061B	185381-020	15	29%
600GW108	185381-019	Water	Potassium, dissolved	3800	DUP0307061B	185381-020	3700	2.7%
600GW108	185381-019	Water	Sodium, dissolved	70000	DUP0307061B	185381-020	68000	2.9%
600GW108	185381-019	Water	All other Metals	ND	DUP0307061B	185381-020	ND	NA
600GW108	185381-019	Water	Alkalinity	310	DUP0307061B	185381-020	300	3.3%
600GW108	185381-019	Water	Chloride	82	DUP0307061B	185381-020	74	10%
600GW108	185381-019	Water	Fluoride	0.55	DUP0307061B	185381-020	0.54	1.8%
600GW108	185381-019	Water	Nitrogen, Nitrate	0.97	DUP0307061B	185381-020	1.2	-21%
600GW108	185381-019	Water	Nitrogen, Nitrite	ND	DUP0307061B	185381-020	ND	NA
600GW108	185381-019	Water	Sulfate	28	DUP0307061B	185381-020	33	-16%
600GW108	185381-019	Water	Sulfide	ND	DUP0307061B	185381-020	ND	NA
600GW108	185381-019	Water	Total Dissolved Solids	530	DUP0307061B	185381-020	480	9.9%
600GW108	185381-019	Water	Total Organic Carbon	2.2	DUP0307061B	185381-020	2.1	4.7%

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Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	Duplicate Sample ID	Laboratory ID	Duplicate Results*	RPD
231GW21	185408-004	Water	Benzene	89	DUP0308061A	185408-005	96	-7.6%
231GW21	185408-004	Water	Toluene	3.4	DUP0308061A	185408-005	3.5	-2.9%
231GW21	185408-004	Water	Ethylbenzene	4	DUP0308061A	185408-005	4.3	-7.2%
231GW21	185408-004	Water	Xylene (total)	1.8	DUP0308061A	185408-005	1.9	-5.4%
231GW21	185408-004	Water	All other VOCs	ND	DUP0308061A	185408-005	ND	NA
231GW21	185408-004	Water	Gasoline C7-C12	3100	DUP0308061A	185408-005	3400	-9.2%
231GW21	185408-004	Water	Diesel C12-C24	330	DUP0308061A	185408-005	1300	**-119%**
231GW21	185408-004	Water	Fuel oil C24-C36	ND< 300	DUP0308061A	185408-005	5400	**> +/- RL**
231GW21	185408-004	Water	Arsenic, dissolved	18	DUP0308061A	185408-005	22	-20%
231GW21	185408-004	Water	Calcium, dissolved	60000	DUP0308061A	185408-005	62000	-3.3%
231GW21	185408-004	Water	Iron, dissolved	21000	DUP0308061A	185408-005	20000	4.9%
231GW21	185408-004	Water	Lead, dissolved	4.6	DUP0308061A	185408-005	6.3	-31%
231GW21	185408-004	Water	Magnesium, dissolved	49000	DUP0308061A	185408-005	57000	-15%
231GW21	185408-004	Water	Manganese, dissolved	970	DUP0308061A	185408-005	820	17%
231GW21	185408-004	Water	Potassium, dissolved	4000	DUP0308061A	185408-005	5100	-24%
231GW21	185408-004	Water	Sodium, dissolved	47000	DUP0308061A	185408-005	54000	-14%
231GW21	185408-004	Water	All other Metals	ND	DUP0308061A	185408-005	ND	NA
231GW21	185408-004	Water	Alkalinity	450	DUP0308061A	185408-005	470	-4.3%
231GW21	185408-004	Water	Chloride	32	DUP0308061A	185408-005	34	-6.1%
231GW21	185408-004	Water	Fluoride	0.2	DUP0308061A	185408-005	0.2	0%
231GW21	185408-004	Water	Nitrogen, Nitrate	ND	DUP0308061A	185408-005	ND	NA
231GW21	185408-004	Water	Nitrogen, Nitrite	ND	DUP0308061A	185408-005	ND	NA
231GW21	185408-004	Water	Sulfate	ND	DUP0308061A	185408-005	ND	NA
231GW21	185408-004	Water	Sulfide	ND	DUP0308061A	185408-005	ND	NA
231GW21	185408-004	Water	Total Dissolved Solids	580	DUP0308061A	185408-005	570	1.7%
231GW21	185408-004	Water	Total Organic Carbon	9.1	DUP0308061A	185408-005	9.3	-2.2%
LF01GW01	185408-006	Water	Barium, dissolved	100	DUP0308063C	185408-007	99	1.0%
LF01GW01	185408-006	Water	Calcium, dissolved	43000	DUP0308063C	185408-007	42000	2.4%
LF01GW01	185408-006	Water	Copper, dissolved	1.8	DUP0308063C	185408-007	1.5	18%
LF01GW01	185408-006	Water	Magnesium, dissolved	57000	DUP0308063C	185408-007	56000	1.8%
LF01GW01	185408-006	Water	Potassium, dissolved	2800	DUP0308063C	185408-007	2700	3.6%
LF01GW01	185408-006	Water	Sodium, dissolved	27000	DUP0308063C	185408-007	27000	0%
LF01GW01	185408-006	Water	All other Metals	ND	DUP0308063C	185408-007	ND	NA
LF01GW01	185408-006	Water	Alkalinity	310	DUP0308063C	185408-007	300	3.3%
LF01GW01	185408-006	Water	Chloride	52	DUP0308063C	185408-007	53	-1.9%
LF01GW01	185408-006	Water	Fluoride	ND	DUP0308063C	185408-007	ND	NA
LF01GW01	185408-006	Water	Nitrogen, Nitrate	5.5	DUP0308063C	185408-007	5.6	-1.8%
LF01GW01	185408-006	Water	Nitrogen, Nitrite	ND	DUP0308063C	185408-007	ND	NA

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LF01GW01	185408-006	Water	Sulfate	48	DUP0308063C	185408-007	48	0%
LF01GW01	185408-006	Water	Cyanide	ND	DUP0308063C	185408-007	ND	NA
LF01GW01	185408-006	Water	Total Dissolved Solids	520	DUP0308063C	185408-007	480	8.0%
DAESP03	185408-008	Water	All VOCs	ND	DUP0308063A	185408-009	ND	NA
DAESP03	185408-008	Water	Gasoline C7-C12	ND	DUP0308063A	185408-009	ND	NA
DAESP03	185408-008	Water	Diesel C12-C24	55	DUP0308063A	185408-009	63	-14%
DAESP03	185408-008	Water	Fuel oil C24-C36	ND	DUP0308063A	185408-009	ND	NA
DAESP03	185408-008	Water	All Pesticides	ND	DUP0308063A	185408-009	ND	NA
DAESP03	185408-008	Water	All PCBs	ND	DUP0308063A	185408-009	ND	NA
DAESP03	185408-008	Water	All PAHs	ND	DUP0308063A	185408-009	ND	NA
DAESP03	185408-008	Water	Aluminum, total	6500	DUP0308063A	185408-009	5400	18%
DAESP03	185408-008	Water	Barium, total	85	DUP0308063A	185408-009	77	9.9%
DAESP03	185408-008	Water	Calcium, total	12000	DUP0308063A	185408-009	11000	8.7%
DAESP03	185408-008	Water	Chromium, total	70	DUP0308063A	185408-009	52	30%
DAESP03	185408-008	Water	Copper, total	17	DUP0308063A	185408-009	15	13%
DAESP03	185408-008	Water	Iron, total	9800	DUP0308063A	185408-009	8300	17%
DAESP03	185408-008	Water	Lead, total	16	DUP0308063A	185408-009	15	6.5%
DAESP03	185408-008	Water	Magnesium, total	23000	DUP0308063A	185408-009	19000	19%
DAESP03	185408-008	Water	Manganese, total	130	DUP0308063A	185408-009	110	17%
DAESP03	185408-008	Water	Nickel, total	140	DUP0308063A	185408-009	120	15%
DAESP03	185408-008	Water	Potassium, total	2300	DUP0308063A	185408-009	1900	19%
DAESP03	185408-008	Water	Sodium, total	26000	DUP0308063A	185408-009	28000	-7.4%
DAESP03	185408-008	Water	Vanadium, total	19	DUP0308063A	185408-009	15	24%
DAESP03	185408-008	Water	Zinc, total	63	DUP0308063A	185408-009	74	-16%
DAESP03	185408-008	Water	Aluminum, dissolved	130	DUP0308063A	185408-009	100	26%
DAESP03	185408-008	Water	Barium, dissolved	35	DUP0308063A	185408-009	35	0%
DAESP03	185408-008	Water	Calcium, dissolved	9600	DUP0308063A	185408-009	9400	2.1%
DAESP03	185408-008	Water	Copper, dissolved	6.8	DUP0308063A	185408-009	6.9	-1.5%
DAESP03	185408-008	Water	Iron, dissolved	450	DUP0308063A	185408-009	500	-11%
DAESP03	185408-008	Water	Magnesium, dissolved	17000	DUP0308063A	185408-009	16000	6.1%
DAESP03	185408-008	Water	Manganese, dissolved	23	DUP0308063A	185408-009	26	-12%
DAESP03	185408-008	Water	Nickel, dissolved	54	DUP0308063A	185408-009	53	1.9%
DAESP03	185408-008	Water	Potassium, dissolved	1600	DUP0308063A	185408-009	1500	6.5%
DAESP03	185408-008	Water	Sodium, dissolved	24000	DUP0308063A	185408-009	20000	18%
DAESP03	185408-008	Water	Zinc, dissolved	ND< 20	DUP0308063A	185408-009	22	NC
DAESP03	185408-008	Water	Hardness	120	DUP0308063A	185408-009	110	8.7%
DAESP03	185408-008	Water	All other Metals	ND	DUP0308063A	185408-009	ND	NA
DAESP03	185408-008	Water	Alkalinity	89	DUP0308063A	185408-009	78	13%

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DAESP03	185408-008	Water	Chloride	28	DUP0308063A	185408-009	29	-3.5%
DAESP03	185408-008	Water	Fluoride	ND	DUP0308063A	185408-009	ND	NA
DAESP03	185408-008	Water	Nitrogen, Nitrate	1.7	DUP0308063A	185408-009	1.7	0%
DAESP03	185408-008	Water	Nitrogen, Nitrite	ND	DUP0308063A	185408-009	ND	NA
DAESP03	185408-008	Water	Sulfate	16	DUP0308063A	185408-009	16	0%
DAESP03	185408-008	Water	Total Dissolved Solids	400	DUP0308063A	185408-009	350	13%
BB3SW104	185408-010	Water	Gasoline C7-C12	ND	DUP0308063B	185408-011	ND	NA
BB3SW104	185408-010	Water	Diesel C12-C24	ND	DUP0308063B	185408-011	ND	NA
BB3SW104	185408-010	Water	Fuel oil C24-C36	ND	DUP0308063B	185408-011	ND	NA
BB3SW104	185408-010	Water	Aluminum, total	3200	DUP0308063B	185408-011	4000	-22%
BB3SW104	185408-010	Water	Barium, total	100	DUP0308063B	185408-011	110	-9.5%
BB3SW104	185408-010	Water	Calcium, total	23000	DUP0308063B	185408-011	24000	-4.3%
BB3SW104	185408-010	Water	Chromium, total	26	DUP0308063B	185408-011	29	-11%
BB3SW104	185408-010	Water	Cobalt, total	11	DUP0308063B	185408-011	12	-8.7%
BB3SW104	185408-010	Water	Copper, total	13	DUP0308063B	185408-011	12	8.0%
BB3SW104	185408-010	Water	Iron, total	5400	DUP0308063B	185408-011	6400	-17%
BB3SW104	185408-010	Water	Lead, total	14	DUP0308063B	185408-011	16	-13%
BB3SW104	185408-010	Water	Magnesium, total	40000	DUP0308063B	185408-011	41000	-2.5%
BB3SW104	185408-010	Water	Manganese, total	320	DUP0308063B	185408-011	360	-12%
BB3SW104	185408-010	Water	Nickel, total	43	DUP0308063B	185408-011	45	-4.5%
BB3SW104	185408-010	Water	Potassium, total	1600	DUP0308063B	185408-011	1500	6.5%
BB3SW104	185408-010	Water	Sodium, total	44000	DUP0308063B	185408-011	44000	0%
BB3SW104	185408-010	Water	Vanadium, total	21	DUP0308063B	185408-011	24	-13%
BB3SW104	185408-010	Water	Zinc, total	58	DUP0308063B	185408-011	62	-6.7%
BB3SW104	185408-010	Water	Barium, dissolved	18	DUP0308063B	185408-011	19	-5.4%
BB3SW104	185408-010	Water	Calcium, dissolved	18000	DUP0308063B	185408-011	18000	0%
BB3SW104	185408-010	Water	Copper, dissolved	2.5	DUP0308063B	185408-011	2.7	-7.7%
BB3SW104	185408-010	Water	Magnesium, dissolved	32000	DUP0308063B	185408-011	33000	-3.1%
BB3SW104	185408-010	Water	Manganese, dissolved	ND< 10	DUP0308063B	185408-011	10	NC
BB3SW104	185408-010	Water	Potassium, dissolved	1200	DUP0308063B	185408-011	1100	8.7%
BB3SW104	185408-010	Water	Sodium, dissolved	44000	DUP0308063B	185408-011	45000	-2.2%
BB3SW104	185408-010	Water	Zinc, dissolved	24	DUP0308063B	185408-011	ND< 20	NC
BB3SW104	185408-010	Water	All other Metals	ND	DUP0308063B	185408-011	ND	NA
BB3SW104	185408-010	Water	Alkalinity	160	DUP0308063B	185408-011	140	13%
BB3SW104	185408-010	Water	Chloride	71	DUP0308063B	185408-011	72	-1.4%
BB3SW104	185408-010	Water	Fluoride	ND	DUP0308063B	185408-011	ND	NA
BB3SW104	185408-010	Water	Nitrogen, Nitrate	4.5	DUP0308063B	185408-011	4.5	0%
BB3SW104	185408-010	Water	Nitrogen, Nitrite	ND	DUP0308063B	185408-011	ND	NA

Table 3
Summary of Field Duplicates
First Quarter 2006 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	Duplicate Sample ID	Laboratory ID	Duplicate Results*	RPD
BB3SW104	185408-010	Water	Sulfate	25	DUP0308063B	185408-011	25	0%
BB3SW104	185408-010	Water	Total Dissolved Solids	400	DUP0308063B	185408-011	380	5.1%
1260GW102	185457-003	Water	Gasoline C7-C12	ND	DUP0309063A	185457-004	ND	NA
1260GW102	185457-003	Water	Methyl tertiary-butyl ether	ND	DUP0309063A	185457-004	ND	NA
1260GW102	185457-003	Water	Benzene	ND	DUP0309063A	185457-004	ND	NA
1260GW102	185457-003	Water	Toluene	ND	DUP0309063A	185457-004	ND	NA
1260GW102	185457-003	Water	Ethylbenzene	ND	DUP0309063A	185457-004	ND	NA
1260GW102	185457-003	Water	Xylene (total)	ND	DUP0309063A	185457-004	ND	NA
1260GW102	185457-003	Water	Diesel C12-C24	ND	DUP0309063A	185457-004	88	NC
1260GW102	185457-003	Water	Fuel oil C24-C36	ND	DUP0309063A	185457-004	ND	NA
1260GW102	185457-003	Water	All PAHs	ND	DUP0309063A	185457-004	ND	NA
231GW22	185457-011	Water	Benzene	4400	DUP0309061A	185457-012	4300	2.3%
231GW22	185457-011	Water	Toluene	60	DUP0309061A	185457-012	49	20%
231GW22	185457-011	Water	Ethylbenzene	230	DUP0309061A	185457-012	180	24%
231GW22	185457-011	Water	Xylene (total)	550	DUP0309061A	185457-012	400	32%
231GW22	185457-011	Water	All other VOCs	ND	DUP0309061A	185457-012	ND	NA
231GW22	185457-011	Water	Gasoline C7-C12	8400	DUP0309061A	185457-012	14000	-50%
231GW22	185457-011	Water	Diesel C12-C24	300	DUP0309061A	185457-012	330	-9.5%
231GW22	185457-011	Water	Fuel oil C24-C36	ND	DUP0309061A	185457-012	ND	NA
231GW22	185457-011	Water	Arsenic, dissolved	31	DUP0309061A	185457-012	31	0%
231GW22	185457-011	Water	Calcium, dissolved	69000	DUP0309061A	185457-012	71000	-2.9%
231GW22	185457-011	Water	Iron, dissolved	31000	DUP0309061A	185457-012	31000	0%
231GW22	185457-011	Water	Magnesium, dissolved	85000	DUP0309061A	185457-012	86000	-1.2%
231GW22	185457-011	Water	Manganese, dissolved	1300	DUP0309061A	185457-012	1400	-7.4%
231GW22	185457-011	Water	Potassium, dissolved	37000	DUP0309061A	185457-012	38000	-2.7%
231GW22	185457-011	Water	Sodium, dissolved	83000	DUP0309061A	185457-012	85000	-2.4%
231GW22	185457-011	Water	Zinc, dissolved	ND< 20	DUP0309061A	185457-012	21	NC
231GW22	185457-011	Water	All other Metals	ND	DUP0309061A	185457-012	ND	NA
231GW22	185457-011	Water	Alkalinity	740	DUP0309061A	185457-012	760	-2.7%
231GW22	185457-011	Water	Chloride	57	DUP0309061A	185457-012	57	0%
231GW22	185457-011	Water	Fluoride	0.26	DUP0309061A	185457-012	0.26	0%
231GW22	185457-011	Water	Nitrogen, Nitrate	ND	DUP0309061A	185457-012	ND	NA
231GW22	185457-011	Water	Nitrogen, Nitrite	ND	DUP0309061A	185457-012	ND	NA
231GW22	185457-011	Water	Sulfate	ND	DUP0309061A	185457-012	ND	NA
231GW22	185457-011	Water	Sulfide	ND	DUP0309061A	185457-012	ND	NA
231GW22	185457-011	Water	Total Dissolved Solids	1030	DUP0309061A	185457-012	1170	-13%
231GW22	185457-011	Water	Total Organic Carbon	27	DUP0309061A	185457-012	28	-3.6%
950GW108	185457-020	Water	Vinyl chloride	3.9	DUP0309062A	185457-019	4.5	-14%

Table 3
Summary of Field Duplicates
First Quarter 2006 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	Duplicate Sample ID	Laboratory ID	Duplicate Results*	RPD
950GW108	185457-020	Water	trans-1,2-Dichloroethene	81	DUP0309062A	185457-019	89	-9.4%
950GW108	185457-020	Water	cis-1,2-Dichloroethene	150	DUP0309062A	185457-019	160	-6.5%
950GW108	185457-020	Water	Benzene	0.5	DUP0309062A	185457-019	0.4	22%
950GW108	185457-020	Water	All other VOCs	ND	DUP0309062A	185457-019	ND	NA
950GW108	185457-020	Water	Gasoline C7-C12	ND	DUP0309062A	185457-019	ND	NA
950GW108	185457-020	Water	Diesel C12-C24	ND	DUP0309062A	185457-019	ND	NA
950GW108	185457-020	Water	Fuel oil C24-C36	ND	DUP0309062A	185457-019	ND	NA
1065MW9A	185457-023	Water	Gasoline C7-C12	ND	DUP0309062B	185457-024	ND	NA
1065MW9A	185457-023	Water	Methyl tertiary-butyl ether	ND	DUP0309062B	185457-024	ND	NA
1065MW9A	185457-023	Water	Benzene	ND	DUP0309062B	185457-024	ND	NA
1065MW9A	185457-023	Water	Toluene	ND	DUP0309062B	185457-024	ND	NA
1065MW9A	185457-023	Water	Ethylbenzene	ND	DUP0309062B	185457-024	ND	NA
1065MW9A	185457-023	Water	Xylene (total)	ND	DUP0309062B	185457-024	ND	NA
1065MW9A	185457-023	Water	Diesel C12-C24	ND	DUP0309062B	185457-024	ND	NA
1065MW9A	185457-023	Water	Fuel oil C24-C36	ND	DUP0309062B	185457-024	ND	NA
1065MW9A	185457-023	Water	Arsenic, dissolved	5.3	DUP0309062B	185457-024	6.3	-17%
1065MW9A	185457-023	Water	Calcium, dissolved	54000	DUP0309062B	185457-024	53000	1.9%
1065MW9A	185457-023	Water	Iron, dissolved	5400	DUP0309062B	185457-024	6100	-12%
1065MW9A	185457-023	Water	Magnesium, dissolved	90000	DUP0309062B	185457-024	90000	0%
1065MW9A	185457-023	Water	Manganese, dissolved	570	DUP0309062B	185457-024	600	-5.1%
1065MW9A	185457-023	Water	Potassium, dissolved	13000	DUP0309062B	185457-024	12000	8.0%
1065MW9A	185457-023	Water	Sodium, dissolved	69000	DUP0309062B	185457-024	69000	0%
1065MW9A	185457-023	Water	All other Metals	ND	DUP0309062B	185457-024	ND	NA
1065MW9A	185457-023	Water	Alkalinity	460	DUP0309062B	185457-024	420	9.1%
1065MW9A	185457-023	Water	Chloride	170	DUP0309062B	185457-024	170	0%
1065MW9A	185457-023	Water	Fluoride	0.12	DUP0309062B	185457-024	0.11	8.7%
1065MW9A	185457-023	Water	Nitrogen, Nitrate	ND	DUP0309062B	185457-024	ND	NA
1065MW9A	185457-023	Water	Nitrogen, Nitrite	ND	DUP0309062B	185457-024	ND	NA
1065MW9A	185457-023	Water	Sulfate	22	DUP0309062B	185457-024	21	4.7%
1065MW9A	185457-023	Water	Sulfide	0.07	DUP0309062B	185457-024	ND	NC
1065MW9A	185457-023	Water	Total Dissolved Solids	870	DUP0309062B	185457-024	790	9.6%
1065MW9A	185457-023	Water	Total Organic Carbon	2.1	DUP0309062B	185457-024	2.5	-17%
979GW116	185558-008	Water	trans-1,2-Dichloroethene	2.5	DUP0314061A	185558-009	2.6	-3.9%
979GW116	185558-008	Water	cis-1,2-Dichloroethene	50	DUP0314061A	185558-009	50	0%
979GW116	185558-008	Water	All other VOCs	ND	DUP0314061A	185558-009	ND	NA
979GW116	185558-008	Water	Gasoline C7-C12	ND	DUP0314061A	185558-009	ND	NA
979GW116	185558-008	Water	Diesel C12-C24	ND	DUP0314061A	185558-009	ND	NA
979GW116	185558-008	Water	Fuel oil C24-C36	ND	DUP0314061A	185558-009	ND	NA

Table 3
Summary of Field Duplicates
First Quarter 2006 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	Duplicate Sample ID	Laboratory ID	Duplicate Results*	RPD
LF08GW04	185622-005	Water	All VOCs	ND	DUP0316064A	185622-006	ND	NA
LF08GW04	185622-005	Water	All Pesticides	ND	DUP0316064A	185622-006	ND	NA
LF08GW04	185622-005	Water	All PCBs	ND	DUP0316064A	185622-006	ND	NA
LF08GW04	185622-005	Water	All PAHs	ND	DUP0316064A	185622-006	ND	NA
LF08GW04	185622-005	Water	Barium, dissolved	16	DUP0316064A	185622-006	17	-6.1%
LF08GW04	185622-005	Water	Calcium, dissolved	32000	DUP0316064A	185622-006	32000	0%
LF08GW04	185622-005	Water	Magnesium, dissolved	5300	DUP0316064A	185622-006	5300	0%
LF08GW04	185622-005	Water	Potassium, dissolved	2700	DUP0316064A	185622-006	2700	0%
LF08GW04	185622-005	Water	Sodium, dissolved	15000	DUP0316064A	185622-006	16000	-6.5%
LF08GW04	185622-005	Water	All other Metals	ND	DUP0316064A	185622-006	ND	NA
LF08GW04	185622-005	Water	Alkalinity	130	DUP0316064A	185622-006	86	41%
LF08GW04	185622-005	Water	Chloride	30	DUP0316064A	185622-006	30	0%
LF08GW04	185622-005	Water	Fluoride	ND	DUP0316064A	185622-006	ND	NA
LF08GW04	185622-005	Water	Nitrogen, Nitrate	1.6	DUP0316064A	185622-006	1.5	6.5%
LF08GW04	185622-005	Water	Nitrogen, Nitrite	ND	DUP0316064A	185622-006	ND	NA
LF08GW04	185622-005	Water	Sulfate	17	DUP0316064A	185622-006	17	0%
LF08GW04	185622-005	Water	Cyanide	ND	DUP0316064A	185622-006	0.03	**> +/- RL**
LF08GW04	185622-005	Water	Sulfide	ND	DUP0316064A	185622-006	ND	NA
LF08GW04	185622-005	Water	Total Dissolved Solids	280	DUP0316064A	185622-006	140	**67%**
1213GW101	185638-005	Water	1,2-Dichloroethane	8.9	DUP0317062A	185638-007	5.8	42%
1213GW101	185638-005	Water	Benzene	1.5	DUP0317062A	185638-007	0.8	**61%**
1213GW101	185638-005	Water	All other VOCs	ND	DUP0317062A	185638-007	ND	NA
1213GW101	185638-005	Water	Gasoline C7-C12	87	DUP0317062A	185638-007	61	35%
1213GW101	185638-005	Water	Diesel C12-C24	61	DUP0317062A	185638-007	57	6.8%
1213GW101	185638-005	Water	Fuel oil C24-C36	ND	DUP0317062A	185638-007	ND	NA
1213GW101	185638-005	Water	All PAHs	ND	DUP0317062A	185638-007	ND	NA
NKGW04	185679-004	Water	All VOCs	ND	DUP0320061A	185679-005	ND	NA
NKGW04	185679-004	Water	N-Nitrosodimethylamine	0.003	DUP0320061A	185679-005	0.0019	45%
NKGW04	185679-004	Water	Gasoline C7-C12	ND	DUP0320061A	185679-005	ND	NA
NKGW04	185679-004	Water	Diesel C12-C24	ND	DUP0320061A	185679-005	ND	NA
NKGW04	185679-004	Water	Fuel oil C24-C36	ND	DUP0320061A	185679-005	ND	NA
NKGW04	185679-004	Water	Barium	45	DUP0320061A	185679-005	41	9.3%
NKGW04	185679-004	Water	Cadmium	18	DUP0320061A	185679-005	16	12%
NKGW04	185679-004	Water	Calcium	31000	DUP0320061A	185679-005	29000	6.7%
NKGW04	185679-004	Water	Copper	1.7	DUP0320061A	185679-005	2.6	-42%
NKGW04	185679-004	Water	Magnesium	22000	DUP0320061A	185679-005	21000	4.7%
NKGW04	185679-004	Water	Potassium	1500	DUP0320061A	185679-005	1400	6.9%
NKGW04	185679-004	Water	Sodium	23000	DUP0320061A	185679-005	23000	0%

Table 3
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First Quarter 2006 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	Duplicate Sample ID	Laboratory ID	Duplicate Results*	RPD
NKGW04	185679-004	Water	Zinc	950	DUP0320061A	185679-005	860	9.9%
NKGW04	185679-004	Water	All other Metals	ND	DUP0320061A	185679-005	ND	NA
NKGW04	185679-004	Water	Cyanide	ND	DUP0320061A	185679-005	ND	NA
NKGW04	185679-004	Water	Total Dissolved Solids	420	DUP0320061A	185679-005	760	**-58%**

*Units for oganic and metals analyses are ug/L; units for general chemistry analyses are mg/L.
RL: Reporting limit
VOCs: Volatile Organic Compounds
PCBs: Polychlorinated Biphenyls
PAHs: Polynuclear Aromatic Hydrocarbons
ND: Not detected
NC: Not calculated. The absolute difference between the sample result and the duplicate sample result is less than the reporting limit.
N/A: Not analyzed
NA: Not applicable. Calculation of the relative percent difference between the sample result and the duplicate sample result is not applicable.

Table 4
Summary of QC Split Duplicates
First Quarter 2006 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	QC Split Sample ID	Laboratory ID	Duplicate Results*	RPD
1047MW101	185381-001	Water	All VOCs	ND	1047MW101CL	DH005-001	ND	NA
1047MW101	185381-001	Water	Gasoline C7-C12	51	1047MW101CL	DH005-001	ND< 50	NC
1047MW101	185381-001	Water	Stoddard Solvent C7-C12	ND	1047MW101CL	DH005-001	ND	NA
1047MW101	185381-001	Water	Calcium, dissolved	4300	1047MW101CL	DH005-001	5000	-15%
1047MW101	185381-001	Water	Copper, dissolved	2.3	1047MW101CL	DH005-001	ND< 2	NC
1047MW101	185381-001	Water	Magnesium, dissolved	4500	1047MW101CL	DH005-001	4700	-4%
1047MW101	185381-001	Water	Potassium, dissolved	1300	1047MW101CL	DH005-001	ND< 5000	NC
1047MW101	185381-001	Water	Sodium, dissolved	3100	1047MW101CL	DH005-001	ND< 5000	NC
1047MW101	185381-001	Water	All other Metals	ND	1047MW101CL	DH005-001	ND	NA
1047MW101	185381-001	Water	Alkalinity	30	1047MW101CL	DH005-001	31	-3%
1047MW101	185381-001	Water	Chloride	2.9	1047MW101CL	DH005-001	3.4	-16%
1047MW101	185381-001	Water	Fluoride	ND	1047MW101CL	DH005-001	ND	NA
1047MW101	185381-001	Water	Nitrogen, Nitrate	0.12	1047MW101CL	DH005-001	0.111	8%
1047MW101	185381-001	Water	Nitrogen, Nitrite	ND	1047MW101CL	DH005-001	ND	NA
1047MW101	185381-001	Water	Sulfate	2.1	1047MW101CL	DH005-001	2.3	-9%
1047MW101	185381-001	Water	Sulfide	ND	1047MW101CL	DH005-001	ND	NA
1047MW101	185381-001	Water	Total Dissolved Solids	180	1047MW101CL	DH005-001	186	-3%
1065PZ5AR	185381-005	Water	Gasoline C7-C12	ND	1065PZ5ARCL	DH005-002	ND	NA
1065PZ5AR	185381-005	Water	Methyl tertiary-butyl ether	ND	1065PZ5ARCL	DH005-002	ND	NA
1065PZ5AR	185381-005	Water	Benzene	ND	1065PZ5ARCL	DH005-002	ND	NA
1065PZ5AR	185381-005	Water	Toluene	0.54	1065PZ5ARCL	DH005-002	ND< 0.5	NC
1065PZ5AR	185381-005	Water	Ethylbenzene	ND	1065PZ5ARCL	DH005-002	ND	NA
1065PZ5AR	185381-005	Water	Xylene (total)	ND	1065PZ5ARCL	DH005-002	ND	NA
1065PZ5AR	185381-005	Water	Diesel C12-C24 *	ND< 50	1065PZ5ARCL	DH005-002	72	NC
1065PZ5AR	185381-005	Water	Fuel oil C24-C36	ND	1065PZ5ARCL	DH005-002	ND	NA
1065PZ5AR	185381-005	Water	Arsenic, dissolved	24	1065PZ5ARCL	DH005-002	15	46%
1065PZ5AR	185381-005	Water	Calcium, dissolved	70000	1065PZ5ARCL	DH005-002	80000	-13%
1065PZ5AR	185381-005	Water	Iron, dissolved	23000	1065PZ5ARCL	DH005-002	13000	**56%**
1065PZ5AR	185381-005	Water	Magnesium, dissolved	77000	1065PZ5ARCL	DH005-002	86000	-11%
1065PZ5AR	185381-005	Water	Manganese, dissolved	2000	1065PZ5ARCL	DH005-002	2100	-5%
1065PZ5AR	185381-005	Water	Nickel, dissolved	ND< 20	1065PZ5ARCL	DH005-002	5.5	NC
1065PZ5AR	185381-005	Water	Potassium, dissolved	5800	1065PZ5ARCL	DH005-002	6000	-3%
1065PZ5AR	185381-005	Water	Sodium, dissolved	83000	1065PZ5ARCL	DH005-002	99000	-18%
1065PZ5AR	185381-005	Water	All other Metals	ND	1065PZ5ARCL	DH005-002	ND	NA
1065PZ5AR	185381-005	Water	Alkalinity	780	1065PZ5ARCL	DH005-002	776	1%
1065PZ5AR	185381-005	Water	Chloride	68	1065PZ5ARCL	DH005-002	71.1	-4%
1065PZ5AR	185381-005	Water	Fluoride	0.2	1065PZ5ARCL	DH005-002	ND< 1.0	NC

Table 4
Summary of QC Split Duplicates
First Quarter 2006 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	QC Split Sample ID	Laboratory ID	Duplicate Results*	RPD
1065PZ5AR	185381-005	Water	Nitrogen, Nitrate	ND	1065PZ5ARCL	DH005-002	ND	NA
1065PZ5AR	185381-005	Water	Nitrogen, Nitrite	ND	1065PZ5ARCL	DH005-002	ND	NA
1065PZ5AR	185381-005	Water	Sulfate	ND< 0.5	1065PZ5ARCL	DH005-002	0.5	NC
1065PZ5AR	185381-005	Water	Sulfide	ND	1065PZ5ARCL	DH005-002	ND	NA
1065PZ5AR	185381-005	Water	Total Dissolved Solids	820	1065PZ5ARCL	DH005-002	1170	-35%
1065PZ5AR	185381-005	Water	Total Organic Carbon	42	1065PZ5ARCL	DH005-002	43.5	-4%
LF4GW103	185381-008	Water	All PCBs	ND	LF4GW103CL	DH005-004	ND	NA
LF4GW103	185381-008	Water	Arsenic, dissolved	ND< 5	LF4GW103CL	DH005-004	2.9	NC
LF4GW103	185381-008	Water	Calcium, dissolved	140000	LF4GW103CL	DH005-004	160000	-13%
LF4GW103	185381-008	Water	Copper, dissolved	2.3	LF4GW103CL	DH005-004	2.3	0%
LF4GW103	185381-008	Water	Iron, dissolved	510	LF4GW103CL	DH005-004	ND< 100	**> +/- RL**
LF4GW103	185381-008	Water	Magnesium, dissolved	390000	LF4GW103CL	DH005-004	470000	-19%
LF4GW103	185381-008	Water	Manganese, dissolved	85	LF4GW103CL	DH005-004	79	7%
LF4GW103	185381-008	Water	Nickel, dissolved	150	LF4GW103CL	DH005-004	133	12%
LF4GW103	185381-008	Water	Potassium, dissolved	2000	LF4GW103CL	DH005-004	ND< 5000	NC
LF4GW103	185381-008	Water	Sodium, dissolved	160000	LF4GW103CL	DH005-004	190000	-17%
LF4GW103	185381-008	Water	All other Metals	ND	LF4GW103CL	DH005-004	ND	NA
LF4GW103	185381-008	Water	Alkalinity	1300	LF4GW103CL	DH005-004	1190	9%
LF4GW103	185381-008	Water	Chloride	510	LF4GW103CL	DH005-004	601	-16%
LF4GW103	185381-008	Water	Fluoride	ND	LF4GW103CL	DH005-004	ND	NA
LF4GW103	185381-008	Water	Nitrogen, Nitrate	ND< 0.05	LF4GW103CL	DH005-004	0.046	NC
LF4GW103	185381-008	Water	Nitrogen, Nitrite	ND	LF4GW103CL	DH005-004	ND	NA
LF4GW103	185381-008	Water	Sulfate	410	LF4GW103CL	DH005-004	428	-4%
LF4GW103	185381-008	Water	Total Dissolved Solids	2890	LF4GW103CL	DH005-004	2730	6%
LF5GW104	185381-011	Water	All VOCs	ND	LF5GW104CL	DH005-005	ND	NA
LF5GW104	185381-011	Water	Gasoline C7-C12	ND	LF5GW104CL	DH005-005	ND	NA
LF5GW104	185381-011	Water	Diesel C12-C24 *	ND	LF5GW104CL	DH005-005	ND	NA
LF5GW104	185381-011	Water	Fuel oil C24-C36	ND	LF5GW104CL	DH005-005	ND	NA
LF5GW104	185381-011	Water	All Pesticides	ND	LF5GW104CL	DH005-005	ND	NA
LF5GW104	185381-011	Water	All PAHs	ND	LF5GW104CL	DH005-005	ND	NA
LF5GW104	185381-011	Water	Barium, dissolved	110	LF5GW104CL	DH005-005	130	-17%
LF5GW104	185381-011	Water	Calcium, dissolved	31000	LF5GW104CL	DH005-005	38000	-20%
LF5GW104	185381-011	Water	Chromium, dissolved	36	LF5GW104CL	DH005-005	40	-11%
LF5GW104	185381-011	Water	Iron, dissolved	160	LF5GW104CL	DH005-005	ND< 100	NC
LF5GW104	185381-011	Water	Magnesium, dissolved	120000	LF5GW104CL	DH005-005	130000	-8%
LF5GW104	185381-011	Water	Mercury, dissolved	N/A	LF5GW104CL	DH005-005	0.625	NA
LF5GW104	185381-011	Water	Nickel, dissolved	ND< 20	LF5GW104CL	DH005-005	4.8	NC

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Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	QC Split Sample ID	Laboratory ID	Duplicate Results*	RPD
LF5GW104	185381-011	Water	Potassium, dissolved	930	LF5GW104CL	DH005-005	ND< 5000	NC
LF5GW104	185381-011	Water	Selenium, dissolved	ND< 5	LF5GW104CL	DH005-005	2.9	NC
LF5GW104	185381-011	Water	Sodium, dissolved	130000	LF5GW104CL	DH005-005	150000	-14%
LF5GW104	185381-011	Water	All other Metals	ND	LF5GW104CL	DH005-005	ND	NA
LF5GW104	185381-011	Water	Alkalinity	420	LF5GW104CL	DH005-005	342	20%
LF5GW104	185381-011	Water	Chloride	290	LF5GW104CL	DH005-005	292	-1%
LF5GW104	185381-011	Water	Fluoride	ND	LF5GW104CL	DH005-005	ND	NA
LF5GW104	185381-011	Water	Nitrogen, Nitrate	5.9	LF5GW104CL	DH005-005	6.43	-9%
LF5GW104	185381-011	Water	Nitrogen, Nitrite	ND	LF5GW104CL	DH005-005	ND	NA
LF5GW104	185381-011	Water	Sulfate	73	LF5GW104CL	DH005-005	73.3	0%
LF5GW104	185381-011	Water	Total Dissolved Solids	970	LF5GW104CL	DH005-005	982	-1%
1349MW102	185381-013	Water	All VOCs	ND	1349MW102CL	DH005-006	ND	NA
1349MW102	185381-013	Water	Gasoline C7-C12	ND	1349MW102CL	DH005-006	ND	NA
1349MW102	185381-013	Water	Diesel C12-C24 *	ND< 50	1349MW102CL	DH005-006	60	NC
1349MW102	185381-013	Water	Fuel oil C24-C36	ND	1349MW102CL	DH005-006	ND	NA
1349MW102	185381-013	Water	All Pesticides	ND	1349MW102CL	DH005-006	ND	NA
1349MW102	185381-013	Water	All PCBs	ND	1349MW102CL	DH005-006	ND	NA
1349MW102	185381-013	Water	All PAHs	ND	1349MW102CL	DH005-006	ND	NA
1349MW102	185381-013	Water	Barium, dissolved	49	1349MW102CL	DH005-006	57	-15%
1349MW102	185381-013	Water	Calcium, dissolved	42000	1349MW102CL	DH005-006	52000	-21%
1349MW102	185381-013	Water	Copper, dissolved	ND< 1.0	1349MW102CL	DH005-006	2.7	**> +/- RL**
1349MW102	185381-013	Water	Iron, dissolved	190	1349MW102CL	DH005-006	ND< 100	NC
1349MW102	185381-013	Water	Magnesium, dissolved	98000	1349MW102CL	DH005-006	110000	-12%
1349MW102	185381-013	Water	Manganese, dissolved	140	1349MW102CL	DH005-006	160	-13%
1349MW102	185381-013	Water	Nickel, dissolved	ND< 20	1349MW102CL	DH005-006	5.4	NC
1349MW102	185381-013	Water	Potassium, dissolved	2700	1349MW102CL	DH005-006	ND< 5000	NC
1349MW102	185381-013	Water	Selenium, dissolved	ND< 5	1349MW102CL	DH005-006	2.3	NC
1349MW102	185381-013	Water	Sodium, dissolved	190000	1349MW102CL	DH005-006	230000	-19%
1349MW102	185381-013	Water	All other Metals	ND	1349MW102CL	DH005-006	ND	NA
1349MW102	185381-013	Water	Alkalinity	470	1349MW102CL	DH005-006	416	12%
1349MW102	185381-013	Water	Chloride	240	1349MW102CL	DH005-006	220	9%
1349MW102	185381-013	Water	Fluoride	0.25	1349MW102CL	DH005-006	ND< 1.0	NC
1349MW102	185381-013	Water	Nitrogen, Nitrate	2	1349MW102CL	DH005-006	2.33	-15%
1349MW102	185381-013	Water	Nitrogen, Nitrite	ND< 0.05	1349MW102CL	DH005-006	0.025	NC
1349MW102	185381-013	Water	Sulfate	140	1349MW102CL	DH005-006	156	-11%
1349MW102	185381-013	Water	Total Dissolved Solids	1070	1349MW102CL	DH005-006	1070	0%
610GW103	185381-017	Water	Gasoline C7-C12	ND	610GW103CL	DH005-003	ND	NA

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Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	QC Split Sample ID	Laboratory ID	Duplicate Results*	RPD
610GW103	185381-017	Water	Methyl tertiary-butyl ether	ND	610GW103CL	DH005-003	ND	NA
610GW103	185381-017	Water	Benzene	ND	610GW103CL	DH005-003	ND	NA
610GW103	185381-017	Water	Toluene	ND	610GW103CL	DH005-003	ND	NA
610GW103	185381-017	Water	Ethylbenzene	ND	610GW103CL	DH005-003	ND	NA
610GW103	185381-017	Water	Xylene (total)	ND	610GW103CL	DH005-003	ND	NA
610GW103	185381-017	Water	Diesel C12-C24 *	ND	610GW103CL	DH005-003	ND	NA
610GW103	185381-017	Water	Fuel oil C24-C36	ND	610GW103CL	DH005-003	ND	NA
610GW103	185381-017	Water	Arsenic, dissolved	5.4	610GW103CL	DH005-003	4.7	14%
610GW103	185381-017	Water	Calcium, dissolved	66000	610GW103CL	DH005-003	77000	-15%
610GW103	185381-017	Water	Copper, dissolved	1.5	610GW103CL	DH005-003	2.2	-38%
610GW103	185381-017	Water	Iron, dissolved	580	610GW103CL	DH005-003	410	34%
610GW103	185381-017	Water	Magnesium, dissolved	46000	610GW103CL	DH005-003	52000	-12%
610GW103	185381-017	Water	Manganese, dissolved	810	610GW103CL	DH005-003	960	-17%
610GW103	185381-017	Water	Nickel, dissolved	ND< 20	610GW103CL	DH005-003	8.3	NC
610GW103	185381-017	Water	Potassium, dissolved	8500	610GW103CL	DH005-003	9000	-6%
610GW103	185381-017	Water	Sodium, dissolved	89000	610GW103CL	DH005-003	100000	-12%
610GW103	185381-017	Water	All other Metals	ND	610GW103CL	DH005-003	ND	NA
610GW103	185381-017	Water	Alkalinity	430	610GW103CL	DH005-003	398	8%
610GW103	185381-017	Water	Chloride	51	610GW103CL	DH005-003	54.5	-7%
610GW103	185381-017	Water	Fluoride	0.23	610GW103CL	DH005-003	ND< 1.0	NC
610GW103	185381-017	Water	Nitrogen, Nitrate	ND	610GW103CL	DH005-003	ND	NA
610GW103	185381-017	Water	Nitrogen, Nitrite	ND	610GW103CL	DH005-003	ND	NA
610GW103	185381-017	Water	Sulfate	74	610GW103CL	DH005-003	75.1	-1%
610GW103	185381-017	Water	Sulfide	ND	610GW103CL	DH005-003	ND	NA
610GW103	185381-017	Water	Total Dissolved Solids	720	610GW103CL	DH005-003	698	3%
610GW103	185381-017	Water	Total Organic Carbon	4.2	610GW103CL	DH005-003	4.8	-13%
231GW21	185408-004	Water	Chloroform	ND< 1	231GW21CL	DH009-004	2.7	**> +/- RL**
231GW21	185408-004	Water	Benzene	89	231GW21CL	DH009-004	110	-21%
231GW21	185408-004	Water	Toluene	3.4	231GW21CL	DH009-004	3.7	-8%
231GW21	185408-004	Water	Ethylbenzene	4	231GW21CL	DH009-004	4.8	-18%
231GW21	185408-004	Water	Xylene (total)	1.8	231GW21CL	DH009-004	3	-50%
231GW21	185408-004	Water	All other VOCs	ND	231GW21CL	DH009-004	ND	NA
231GW21	185408-004	Water	Gasoline C7-C12	3100	231GW21CL	DH009-004	3600	-15%
231GW21	185408-004	Water	Diesel C12-C24 *	330	231GW21CL	DH009-004	1200	**-114%**
231GW21	185408-004	Water	Fuel oil C24-C36	ND	231GW21CL	DH009-004	ND	NA
231GW21	185408-004	Water	Arsenic, dissolved	18	231GW21CL	DH009-004	19	-5%
231GW21	185408-004	Water	Calcium, dissolved	60000	231GW21CL	DH009-004	68000	-13%

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231GW21	185408-004	Water	Iron, dissolved	21000	231GW21CL	DH009-004	24000	-13%
231GW21	185408-004	Water	Lead, dissolved	4.6	231GW21CL	DH009-004	4.2	9%
231GW21	185408-004	Water	Magnesium, dissolved	49000	231GW21CL	DH009-004	50000	-2%
231GW21	185408-004	Water	Manganese, dissolved	970	231GW21CL	DH009-004	1100	-13%
231GW21	185408-004	Water	Nickel, dissolved	ND< 20	231GW21CL	DH009-004	3.6	NC
231GW21	185408-004	Water	Potassium, dissolved	4000	231GW21CL	DH009-004	ND< 5000	NC
231GW21	185408-004	Water	Sodium, dissolved	47000	231GW21CL	DH009-004	48000	-2%
231GW21	185408-004	Water	All other Metals	ND	231GW21CL	DH009-004	ND	NA
231GW21	185408-004	Water	Alkalinity	450	231GW21CL	DH009-004	456	-1%
231GW21	185408-004	Water	Chloride	32	231GW21CL	DH009-004	33.6	-5%
231GW21	185408-004	Water	Fluoride	0.2	231GW21CL	DH009-004	ND< 1.0	NC
231GW21	185408-004	Water	Nitrogen, Nitrate	ND	231GW21CL	DH009-004	ND	NA
231GW21	185408-004	Water	Nitrogen, Nitrite	ND	231GW21CL	DH009-004	ND	NA
231GW21	185408-004	Water	Sulfate	ND	231GW21CL	DH009-004	ND	NA
231GW21	185408-004	Water	Sulfide	ND	231GW21CL	DH009-004	ND	NA
231GW21	185408-004	Water	Total Dissolved Solids	580	231GW21CL	DH009-004	530	9%
231GW21	185408-004	Water	Total Organic Carbon	9.1	231GW21CL	DH009-004	9.8	-7%
LF01GW01	185408-006	Water	Barium, dissolved	100	LF01GW01CL	DH009-001	130	-26%
LF01GW01	185408-006	Water	Calcium, dissolved	43000	LF01GW01CL	DH009-001	55000	-24%
LF01GW01	185408-006	Water	Copper, dissolved	1.8	LF01GW01CL	DH009-001	ND< 2	NC
LF01GW01	185408-006	Water	Magnesium, dissolved	57000	LF01GW01CL	DH009-001	74000	-26%
LF01GW01	185408-006	Water	Nickel, dissolved	ND< 20	LF01GW01CL	DH009-001	8.4	NC
LF01GW01	185408-006	Water	Potassium, dissolved	2800	LF01GW01CL	DH009-001	ND< 5000	NC
LF01GW01	185408-006	Water	Sodium, dissolved	27000	LF01GW01CL	DH009-001	35000	-26%
LF01GW01	185408-006	Water	All other Metals	ND	LF01GW01CL	DH009-001	ND	NA
LF01GW01	185408-006	Water	Alkalinity	310	LF01GW01CL	DH009-001	290	7%
LF01GW01	185408-006	Water	Chloride	52	LF01GW01CL	DH009-001	54.4	-5%
LF01GW01	185408-006	Water	Fluoride	ND	LF01GW01CL	DH009-001	ND	NA
LF01GW01	185408-006	Water	Nitrogen, Nitrate	5.5	LF01GW01CL	DH009-001	5.93	-8%
LF01GW01	185408-006	Water	Nitrogen, Nitrite	ND	LF01GW01CL	DH009-001	ND	NA
LF01GW01	185408-006	Water	Sulfate	48	LF01GW01CL	DH009-001	46.7	3%
LF01GW01	185408-006	Water	Cyanide	ND	LF01GW01CL	DH009-001	N/A	NA
LF01GW01	185408-006	Water	Total Dissolved Solids	520	LF01GW01CL	DH009-001	490	6%
DAESP03	185408-008	Water	All VOCs	ND	DAESP03CL	DH009-002	ND	NA
DAESP03	185408-008	Water	Gasoline C7-C12	ND	DAESP03CL	DH009-002	ND	NA
DAESP03	185408-008	Water	Diesel C12-C24 *	55	DAESP03CL	DH009-002	58	-5%
DAESP03	185408-008	Water	Fuel oil C24-C36	ND	DAESP03CL	DH009-002	ND	NA

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DAESP03	185408-008	Water	All Pesticides	ND	DAESP03CL	DH009-002	ND	NA
DAESP03	185408-008	Water	All PCBs	ND	DAESP03CL	DH009-002	ND	NA
DAESP03	185408-008	Water	All PAHs	ND	DAESP03CL	DH009-002	ND	NA
DAESP03	185408-008	Water	Aluminum, total	6500	DAESP03CL	DH009-002	6400	2%
DAESP03	185408-008	Water	Barium, total	85	DAESP03CL	DH009-002	84	1%
DAESP03	185408-008	Water	Calcium, total	12000	DAESP03CL	DH009-002	12000	0%
DAESP03	185408-008	Water	Chromium, total	70	DAESP03CL	DH009-002	72	-3%
DAESP03	185408-008	Water	Cobalt, total	ND< 10	DAESP03CL	DH009-002	2.7	NC
DAESP03	185408-008	Water	Copper, total	17	DAESP03CL	DH009-002	12	34%
DAESP03	185408-008	Water	Iron, total	9800	DAESP03CL	DH009-002	9700	1%
DAESP03	185408-008	Water	Lead, total	16	DAESP03CL	DH009-002	14	13%
DAESP03	185408-008	Water	Magnesium, total	23000	DAESP03CL	DH009-002	23000	0%
DAESP03	185408-008	Water	Manganese, total	130	DAESP03CL	DH009-002	110	17%
DAESP03	185408-008	Water	Nickel, total	140	DAESP03CL	DH009-002	98	35%
DAESP03	185408-008	Water	Potassium, total	2300	DAESP03CL	DH009-002	ND< 5000	NC
DAESP03	185408-008	Water	Sodium, total	26000	DAESP03CL	DH009-002	26000	0%
DAESP03	185408-008	Water	Vanadium, total	19	DAESP03CL	DH009-002	23	-19%
DAESP03	185408-008	Water	Zinc, total	63	DAESP03CL	DH009-002	51	21%
DAESP03	185408-008	Water	Aluminum, dissolved	130	DAESP03CL	DH009-002	140	-7%
DAESP03	185408-008	Water	Barium, dissolved	35	DAESP03CL	DH009-002	46	-27%
DAESP03	185408-008	Water	Calcium, dissolved	9600	DAESP03CL	DH009-002	12000	-22%
DAESP03	185408-008	Water	Copper, dissolved	6.8	DAESP03CL	DH009-002	6.6	3%
DAESP03	185408-008	Water	Iron, dissolved	450	DAESP03CL	DH009-002	430	5%
DAESP03	185408-008	Water	Lead, dissolved	ND< 3	DAESP03CL	DH009-002	2.2	NC
DAESP03	185408-008	Water	Magnesium, dissolved	17000	DAESP03CL	DH009-002	22000	-26%
DAESP03	185408-008	Water	Manganese, dissolved	23	DAESP03CL	DH009-002	30	-26%
DAESP03	185408-008	Water	Nickel, dissolved	54	DAESP03CL	DH009-002	51	6%
DAESP03	185408-008	Water	Potassium, dissolved	1600	DAESP03CL	DH009-002	ND< 5000	NC
DAESP03	185408-008	Water	Sodium, dissolved	24000	DAESP03CL	DH009-002	26000	-8%
DAESP03	185408-008	Water	Zinc, dissolved	ND< 20	DAESP03CL	DH009-002	20	NC
DAESP03	185408-008	Water	All other Metals	ND	DAESP03CL	DH009-002	ND	NA
DAESP03	185408-008	Water	Alkalinity	89	DAESP03CL	DH009-002	75	17%
DAESP03	185408-008	Water	Chloride	28	DAESP03CL	DH009-002	30	-7%
DAESP03	185408-008	Water	Fluoride	ND	DAESP03CL	DH009-002	ND	NA
DAESP03	185408-008	Water	Nitrogen, Nitrate	1.7	DAESP03CL	DH009-002	1.62	5%
DAESP03	185408-008	Water	Nitrogen, Nitrite	ND	DAESP03CL	DH009-002	ND	NA
DAESP03	185408-008	Water	Sulfate	16	DAESP03CL	DH009-002	15.7	2%

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DAESP03	185408-008	Water	Total Dissolved Solids	400	DAESP03CL	DH009-002	326	20%
DAESP03	185408-008	Water	Cyanide	N/A	DAESP03CL	DH009-002	ND	NA
DAESP03	185408-008	Water	Hardness as CaCO3	120	DAESP03CL	DH009-002	107	11%
DAESP03	185408-008	Water	Surfactants	N/A	DAESP03CL	DH009-002	0.05	NA
BB3SW104	185408-010	Water	Gasoline C7-C12	ND	BB3SW104CL	DH009-003	ND	NA
BB3SW104	185408-010	Water	Diesel C12-C24 *	ND	BB3SW104CL	DH009-003	ND	NA
BB3SW104	185408-010	Water	Fuel oil C24-C36	ND	BB3SW104CL	DH009-003	ND	NA
BB3SW104	185408-010	Water	Aluminum, total	3200	BB3SW104CL	DH009-003	5300	-49%
BB3SW104	185408-010	Water	Arsenic, total	ND< 5	BB3SW104CL	DH009-003	2.5	NC
BB3SW104	185408-010	Water	Barium, total	100	BB3SW104CL	DH009-003	130	-26%
BB3SW104	185408-010	Water	Calcium, total	23000	BB3SW104CL	DH009-003	28000	-20%
BB3SW104	185408-010	Water	Chromium, total	26	BB3SW104CL	DH009-003	42	-47%
BB3SW104	185408-010	Water	Cobalt, total	11	BB3SW104CL	DH009-003	9	20%
BB3SW104	185408-010	Water	Copper, total	13	BB3SW104CL	DH009-003	8.4	43%
BB3SW104	185408-010	Water	Iron, total	5400	BB3SW104CL	DH009-003	7300	-30%
BB3SW104	185408-010	Water	Lead, total	14	BB3SW104CL	DH009-003	8.4	50%
BB3SW104	185408-010	Water	Magnesium, total	40000	BB3SW104CL	DH009-003	42000	-5%
BB3SW104	185408-010	Water	Manganese, total	320	BB3SW104CL	DH009-003	370	-14%
BB3SW104	185408-010	Water	Nickel, total	43	BB3SW104CL	DH009-003	38	12%
BB3SW104	185408-010	Water	Potassium, total	1600	BB3SW104CL	DH009-003	ND< 5000	NC
BB3SW104	185408-010	Water	Sodium, total	44000	BB3SW104CL	DH009-003	54000	-20%
BB3SW104	185408-010	Water	Vanadium, total	21	BB3SW104CL	DH009-003	29	-32%
BB3SW104	185408-010	Water	Zinc, total	58	BB3SW104CL	DH009-003	54	7%
BB3SW104	185408-010	Water	Barium, dissolved	18	BB3SW104CL	DH009-003	21	-15%
BB3SW104	185408-010	Water	Calcium, dissolved	18000	BB3SW104CL	DH009-003	21000	-15%
BB3SW104	185408-010	Water	Chromium, dissolved	ND< 10	BB3SW104CL	DH009-003	12	NC
BB3SW104	185408-010	Water	Copper, dissolved	2.5	BB3SW104CL	DH009-003	3	-18%
BB3SW104	185408-010	Water	Magnesium, dissolved	32000	BB3SW104CL	DH009-003	36000	-12%
BB3SW104	185408-010	Water	Manganese, dissolved	ND< 10	BB3SW104CL	DH009-003	11	NC
BB3SW104	185408-010	Water	Nickel, dissolved	ND< 20	BB3SW104CL	DH009-003	10	NC
BB3SW104	185408-010	Water	Potassium, dissolved	1200	BB3SW104CL	DH009-003	ND< 5000	NC
BB3SW104	185408-010	Water	Sodium, dissolved	44000	BB3SW104CL	DH009-003	49000	-11%
BB3SW104	185408-010	Water	Zinc, dissolved	24	BB3SW104CL	DH009-003	ND< 20	NC
BB3SW104	185408-010	Water	All other Metals	ND	BB3SW104CL	DH009-003	ND	NA
BB3SW104	185408-010	Water	Alkalinity	160	BB3SW104CL	DH009-003	131	20%
BB3SW104	185408-010	Water	Chloride	71	BB3SW104CL	DH009-003	75.7	-6%
BB3SW104	185408-010	Water	Fluoride	ND	BB3SW104CL	DH009-003	ND	NA

Table 4
Summary of QC Split Duplicates
First Quarter 2006 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	QC Split Sample ID	Laboratory ID	Duplicate Results*	RPD
BB3SW104	185408-010	Water	Nitrogen, Nitrate	4.5	BB3SW104CL	DH009-003	5.02	-11%
BB3SW104	185408-010	Water	Nitrogen, Nitrite	ND	BB3SW104CL	DH009-003	ND	NA
BB3SW104	185408-010	Water	Sulfate	25	BB3SW104CL	DH009-003	24.2	3%
BB3SW104	185408-010	Water	Total Dissolved Solids	400	BB3SW104CL	DH009-003	348	14%
1260GW102	185457-003	Water	Gasoline C7-C12	ND	1260GW102CL	D0600027-002	ND	NA
1260GW102	185457-003	Water	Methyl tertiary-butyl ether	ND	1260GW102CL	D0600027-002	ND	NA
1260GW102	185457-003	Water	Benzene	ND	1260GW102CL	D0600027-002	ND	NA
1260GW102	185457-003	Water	Toluene	ND	1260GW102CL	D0600027-002	ND	NA
1260GW102	185457-003	Water	Ethylbenzene	ND	1260GW102CL	D0600027-002	ND	NA
1260GW102	185457-003	Water	Xylene (total)	ND	1260GW102CL	D0600027-002	ND	NA
1260GW102	185457-003	Water	Diesel C12-C24 *	ND< 50	1260GW102CL	D0600027-002	120	**> +/- RL**
1260GW102	185457-003	Water	Fuel oil C24-C36	ND	1260GW102CL	D0600027-002	ND	NA
1260GW102	185457-003	Water	All PAHs	ND	1260GW102CL	D0600027-002	ND	NA
950GW108	185457-020	Water	Vinyl chloride	3.9	950GW108CL	D0600027-001	5.8	-39%
950GW108	185457-020	Water	trans-1,2-Dichloroethene	81	950GW108CL	D0600027-001	95	-16%
950GW108	185457-020	Water	cis-1,2-Dichloroethene	150	950GW108CL	D0600027-001	190	-24%
950GW108	185457-020	Water	Benzene	0.5	950GW108CL	D0600027-001	ND< 0.5	NC
950GW108	185457-020	Water	All other VOCs	ND	950GW108CL	D0600027-001	ND	NA
950GW108	185457-020	Water	Gasoline C7-C12	ND	950GW108CL	D0600027-001	ND	NA
950GW108	185457-020	Water	Diesel C12-C24 *	ND< 50	950GW108CL	D0600027-001	120	**> +/- RL**
950GW108	185457-020	Water	Fuel oil C24-C36	ND	950GW108CL	D0600027-001	ND	NA

*Units for oganic and metals analyses are ug/L; units for general chemistry analyses are mg/L.
RL: Reporting limit
VOCs: Volatile Organic Compounds
PCBs: Polychlorinated Biphenyls
PAHs: Polynuclear Aromatic Hydrocarbons
ND: Not detected
NC: Not calculated. The absolute difference between the sample result and the duplicate sample result is less than the reporting limit.
N/A: Not analyzed
NA: Not applicable. Calculation of the relative percent difference between the sample result and the duplicate sample result is not applicable.
* CAS Laboratory reported Diesel C10-C24.

Second Quarter 2006

DataVal, Inc.

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TO: Joshua Graber, Treadwell & Rollo, Inc. August 18, 2006

FROM: Donna Breaux, DataVal, Inc. DB 8/21/06 T&R Project No. 2893.04

DATA VALIDATION SUMMARY REPORT FOR THE SECOND QUARTER 2006 GROUNDWATER MONITORING, THE PRESIDIO OF SAN FRANCISCO, CA

PRIMARY LABORATORY: Curtis & Tompkins, Ltd., Berkeley, CA

QC SPLIT SAMPLE LABORATORY: Columbia Analytical Services, Inc., Redding, CA

SAMPLING DATES: May 23, 24, 25 and 30, 2006

Data validation of Level III laboratory data packages was performed according to the project-specific guidelines. These guidelines were outlined in the Presidio-wide Quality Assurance Project Plan, Sampling and Analysis Plan, April, 2001; the U. S. Environmental Protection Agency Contract Laboratory Program National Functional Guidelines for Organic Data Review, October, 1999; and the U. S. Environmental Protection Agency Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004.

The data were reviewed for holding times, blanks, GC/MS tunes, initial calibrations, continuing calibration verification (CCV) standards, performance evaluation mix (PEM) standards, internal standards, laboratory duplicate samples, laboratory control samples (LCS), surrogate recoveries, matrix spikes (MS), matrix spike duplicates (MSD), ICP interference check standards, ICP serial dilutions, and field QC samples (field duplicates and field QC blanks).

The following paragraphs highlight the essential findings of the data validation effort on the primary samples:

I. **Volatile Organic Compounds by GC/MS (8260B)**
Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
The laboratory reporting limits for VOCs in water matrix samples met the project required reporting limits, with the following exceptions:
1. The laboratory reporting limits did not meet the project required reporting limits listed in Table 2-6.8-1 of the QAPP for bromoform, bromomethane, chloroethane, and chloromethane. The laboratory reported 1.0 ug/L for these compounds. The project required reporting limit was 0.5 ug/L.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

G. GC/MS Tunes
All QC criteria were met for the GC/MS tunes associated with the project samples.

H. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

I. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

J. Internal Standards
Internal standard areas and retention times met QC acceptance criteria for all project samples.

II. Total Petroleum Hydrocarbons - Gasoline Range/Stoddard Solvent (8015B)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
The laboratory reporting limit for TPH-gasoline in water matrix samples met the project required reporting limit. A project required reporting limit was not provided for stoddard solvent in the project QAPP.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

III. Total Petroleum Hydrocarbons – Diesel/Fuel Oil Range (8015B)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
The laboratory reporting limits for TPH-diesel and TPH-fuel oil in water matrix samples met the project required reporting limits.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples. Qualification was not required for samples with non-detect results which were associated with high-failing continuing calibration standards. Such failures were not noted in this report.

IV. Aromatic Volatiles by GC (8021B)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
The laboratory reporting limits for benzene, toluene, ethylbenzene, xylenes and methyl t-butyl ether in water matrix samples met the project required reporting limits.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
Matrix spikes and matrix spike duplicates were not analyzed with the project samples for this analysis.

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples. Data was reported from two columns. Continuing calibration standards with percent differences that failed criteria on one column did not result in sample qualification if the results were reported from the column in control. Such failures were not noted in this report.

V. Organochlorine Pesticides (8081A)

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reasons noted in Section I.

A. Reporting Limits
The laboratory reporting limits for pesticides in water matrix samples met the project required reporting limits, with the following exceptions:
1. The results for all pesticides in sample BB1PZ101 (187020-014) were reported at a five-fold dilution due to the nature of the sample matrix. The reporting limits were raised by the dilution factor, and the sample results were non-detect for all target analytes.
2. The results for various pesticides in samples 1349MW100 (187065-012) and DUP0524063A (187065-013) were reported as non-detected at five-fold or ten-fold dilutions due to the nature of the sample matrices. The reporting limits were raised by the dilution factors.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples. Samples with failing surrogate recoveries which required dilutions of five-fold or greater did not require qualification and were not noted in this report.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

G. Performance Evaluation Mix (PEM) Check Standards
All PEM check standards met the project degradation criteria of 20% for endrin and 4,4'-DDT.

H. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

I. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples, with the following exceptions:

1. Data was reported from two columns. Continuing calibration verification (CCV) standards with percent differences (%Ds) that failed criteria on one column did not require qualification of sample results if those results were reported from the column in control. Such failures were not noted in this report.
2. The 5/30/06 at 22:38 water matrix CCV analyzed on instrument GC23, channel B, had delta-BHC with a %D less than the +/-15%D acceptance criteria at -17%. The associated samples were non-detect for delta-BHC, and qualified as estimated (UJ).
3. The 6/1/06 at 12:08 water matrix CCV analyzed on instrument GC23, channel A, had beta-BHC, delta-BHC and 4,4'-DDE with %Ds less than the +/-15%D acceptance criteria at -19%, -17% and -27%, respectively. The associated sample was non-detect for these compounds, and qualified as estimated (UJ).
4. The 6/1/06 at 19:33 water matrix CCV analyzed on instrument GC23, channel A, had 4,4'-DDE with a %D less than the +/-15%D acceptance criteria at -17%. The associated sample was non-detect for 4,4'-DDE and qualified as estimated (UJ).

See Table 2 of this report for a summary of samples qualified for continuing calibration verification standard percent difference failure.

VI. Polychlorinated Biphenyls (8082)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
The laboratory reporting limits for PCBs in water matrix samples met the project required reporting limits.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples, with the following exception:
1. The percent recoveries for PCB-1016 and PCB-1260 were outside the 65%-135% project acceptance criteria in QC samples QC341529 LCS/ QC341530 LCSD at 137%/140% and 141%/142%, respectively. The associated sample was non-detect for PCB-1016 and PCB-1260, and qualification for LCS percent recovery failure was not required. (QC Batch 113812)

F. Matrix Spike/Matrix Spike Duplicate
Matrix spikes and matrix spike duplicates were not analyzed with the project samples for this analysis.

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples. Qualification was not required for samples with non-detect results associated with high-failing continuing calibration standards. Those failures were not noted in this report.

VII. Polynuclear Aromatic Hydrocarbons by HPLC (8310)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
The laboratory reporting limits for PAHs in water matrix samples met the project required reporting limits, with the following exceptions:
1. The laboratory reporting limits did not meet the project required reporting limits listed in Table 2-6.12-1 of the QAPP for anthracene and fluoranthene. The laboratory reported 0.5 ug/L for anthracene. The project required reporting limit was 0.2 ug/L. The laboratory reported 0.4 ug/L for fluoranthene. The project required reporting limit was 0.2 ug/L.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exception:
1. The percent recoveries for benzo(a)pyrene were outside the 65%-135% project acceptance criteria in QC samples 187086-001 MS/MSD. The parent sample was associated with a site unrelated to the project site, and qualification of project samples was not required. (QC batch 113988)

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

VIII. Metals (6010B/6020A/7470A)

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reasons noted in Sections C and E.

A. Reporting Limits
The laboratory reporting limits for metals in water matrix samples met the project required reporting limits listed in Table 2-5.21-1 of the QAPP.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples, with the following exceptions:

1. Source blank DW053006B (187137-001) had a detected level of calcium at 2000 ug/L. Project sample association with this blank could not be established, and qualification was not required.
2. Source blank DW052506A (187112-013) had detected levels of calcium (3600 ug/L) and magnesium (910 ug/L). The associated samples had magnesium values greater than five times the blank amount, and qualification was not required. The results for calcium in the associated samples were changed to non-detect (U) if those values were less than five times the blank amount.

See Table 2 of this report for a summary of qualifications due to blank contamination.

D. Laboratory Control Samples

All QC criteria were met for the laboratory control samples associated with the project samples.

E. Matrix Spike/Matrix Spike Duplicate

All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exceptions:

1. The percent recoveries for calcium, manganese and sodium were outside the 75%-125% project acceptance criteria in QC samples 600GW101 MS and/or MSD. The amounts of these metals present in the parent sample were greater than four times the amounts spiked and qualification was not required. (QC Batch 113955)
2. The percent recoveries for aluminum (62%/48%) and magnesium (74%) were outside the 75%-125% project acceptance criteria and the relative percent difference (RPD) for aluminum was outside the 20% project acceptance criteria in QC samples 1065MW9B MS and/or MSD. The amount of magnesium present in the parent sample was greater than four times the amount spiked and qualification was not required. The results for aluminum in the associated samples were non-detect and qualified as estimated (UJ) for matrix spike recovery failure and RPD failure. (QC Batch 113957)
3. The percent recoveries for sodium were outside the 75%-125% project acceptance criteria in QC samples 1065PZ1A MS/MSD. The amount of sodium present in the parent sample was greater than four times the amount spiked and qualification was not required. (QC Batch 114296)

See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery failure and relative percent difference failure.

F. ICP Interference Check Standards

All QC criteria were met for the ICP interference check standards associated with the project samples.

G. ICP Serial Dilution

All QC criteria were met for the ICP serial dilutions associated with the project samples.

H. Initial and Continuing Calibrations
All initial and continuing calibration standards associated with the project samples met QC acceptance criteria.

IX. Various General Chemistry Methods

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reason noted in Section E.

A. Reporting Limits
The laboratory reporting limits for the general chemistry methods analyzed met the project required reporting limits listed in the QAPP, with the following exceptions:
1. Samples 1349MW100 (187065-012) and DUP0524063A (187065-013) were analyzed for nitrite-nitrogen at 2-fold dilutions. The reporting limits were raised by the dilution factors and the results for nitrite-nitrogen were non-detect at the raised reporting limits.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples, with the following exceptions:
1. Source blank DW052506A (187112-013) had detected levels of alkalinity (8.9 mg/L), chloride (0.26 mg/L), sulfate (4.9 mg/L) and total dissolved solids (5600 mg/L). The associated samples had alkalinity, chloride and sulfate values greater than five times the blank amounts and qualification was not required. Qualification was not required for the physical property parameter total dissolved solids.
2. Source blank DW053006B (187137-001) had detected levels of alkalinity (4.0 mg/L), sulfate (1.4 mg/L) and total dissolved solids (60 mg/L). Project sample association with this blank could not be established, and qualification was not required.

D. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

E. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exception:
1. The percent recoveries for sulfide failed the 75%-125% project acceptance criteria in QC samples DUP0524063B at 0%/0%. The percent recoveries were less than 30%, which required rejection of non-detected results for sulfide. The detected results for sulfide in the

associated samples were qualified as estimated with a low bias (J-). The non-detect results for sulfide in the associated samples were qualified as rejected (R). (QC batch 113958)

See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery failure.

F. Laboratory Duplicate Samples
All QC criteria were met for the laboratory duplicate samples associated with the project samples.

G. Initial and Continuing Calibrations
All initial and continuing calibration standards associated with the project samples met QC acceptance criteria.

The following paragraphs highlight the essential findings of the data validation effort of the QC split samples:

X. Volatile Organic Compounds by GC/MS (8260B)
Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
The laboratory reporting limits for VOCs in water matrix samples met the project required reporting limits, with the following exceptions:

1. The laboratory reporting limits did not meet the project required reporting limits listed in Table 2-6.8-1 of the QAPP for bromoform, bromomethane, chloroethane, and chloromethane. The laboratory reported 1.0 ug/L for these compounds. The project required reporting limit was 0.5 ug/L.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any field QC blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
Matrix spikes and matrix spike duplicates were not analyzed with the project samples for this analysis.

G. GC/MS Tunes
All QC criteria were met for the GC/MS tunes associated with the project samples.

H. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

I. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

J. Internal Standards
Internal standard areas and retention times met QC acceptance criteria for all project samples.

XI. Total Petroleum Hydrocarbons (TPH) - Gasoline Range (8015B)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
The laboratory reporting limit for TPH-gasoline in water matrix samples met the project required reporting limits.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
Matrix spikes and matrix spike duplicates were not analyzed with the project samples for this analysis.

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

XII. Total Petroleum Hydrocarbons – Diesel/Fuel Oil Range (8015B)

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reason noted in Section C.

A. Reporting Limits
The laboratory reporting limits for TPH-diesel and TPH-fuel oil in water matrix samples met the project required reporting limit.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exception:

1. The percent recoveries for surrogates octacosane and triacontane were outside the 65%-135% project acceptance criteria in sample 1065MW9ACL (D0600543-003) at 60% and 61%, respectively. The results for TPH-diesel and TPH-fuel oil were non-detect and qualified as estimated (UJ).

See Table 2 of this report for a summary of qualifications due to surrogate percent recovery failures.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
Matrix spikes and matrix spike duplicates were not analyzed with the project samples for this analysis.

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

XIII. Organochlorine Pesticides (8081A)

Overall, the data are usable as reported with any added qualifiers. Qualification was required for the reason noted in Section C.

A. Reporting Limits
The laboratory reporting limits for pesticides in water matrix samples met the project required reporting limits.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exception:

1. The percent recovery for surrogate decachlorobiphenyl (DCB) failed the 65%-135% project acceptance criteria in sample 1349MW100CL (D0600543-002) at 43%. The compounds associated with surrogate DCB: alpha-chlordane, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, dieldrin, endosulfan II, endosulfan sulfate, endrin, endrin ketone, gamma-chlordane, methoxychlor and toxaphene, were non-detect and qualified as estimated (UJ).

See Table 2 of this report for a summary of qualifications due to surrogate percent recovery failure.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
Matrix spikes and matrix spike duplicates were not analyzed with the project samples for this analysis.

G. Performance Evaluation Mix (PEM) Check Standards
All PEM check standards met the project degradation criteria of 20% for endrin and 4,4'-DDT.

H. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

I. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

XIV. Polynuclear Aromatic Hydrocarbons by HPLC (8310)

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reasons noted in Section C.

A. Reporting Limits
The laboratory reporting limits for PAHs in water matrix samples met the project required reporting limits.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exceptions:

1. The percent recovery for surrogate terphenyl-d14 was outside the 65%-135% project acceptance criteria in sample 1213GW101CL (D0600543-001) at 62%. All compounds in the sample were non-detect and qualified as estimated (UJ).
2. The percent recovery for surrogate terphenyl-d14 was outside the 65%-135% project acceptance criteria in sample 1349MW100CL (D0600543-002) at 42%. All compounds in the sample were qualified as estimated with a low bias (J-/UJ).

See Table 2 of this report for a summary of qualifications due to surrogate percent recovery failure.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
Matrix spikes and matrix spike duplicates were not analyzed with the project samples for this analysis.

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

XV. Metals (6010B, 6020, 7470A)

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reason noted in Section D.

A. Reporting Limits
The laboratory reporting limits for metals in water matrix samples met the project required reporting limits listed in Tables 2-5.21-1 and 2-5.26-1 of the QAPP, with the following exception:
1. The result for beryllium in sample 1349MW100CL (D0600543-002) was reported as non-detect at a ten-fold dilution due to the nature of the sample matrix. The reporting limit was raised by the dilution factor.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

D. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples, with the following exception:
1. The percent recovery for iron was outside the 80%-120% project acceptance criteria in QC sample LCSW-0602 at 121%. The detected results for iron in the associated samples were qualified as estimated with a high bias (J+).

See Table 2 of this report for a summary of qualifications due to laboratory control sample percent recovery failure.

E. Matrix Spike/Matrix Spike Duplicate
Matrix spikes and matrix spike duplicates were not analyzed with the project samples for this analysis.

F. ICP Interference Check Standards
All QC criteria were met for the ICP interference check standards (ICS) associated with the project samples.

G. ICP Serial Dilution
ICP serial dilutions were not analyzed with the project samples.

H. Initial and Continuing Calibrations
All initial and continuing calibration standards associated with the project samples met QC acceptance criteria.

XVI. Various General Chemistry Methods

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reasons noted in Sections B and E.

A. Reporting Limits

The laboratory reporting limits for the general chemistry methods analyzed met the project required reporting limits listed in the associated tables of the QAPP, with the following exceptions:

1. The laboratory reporting limit for fluoride was 1.0 mg/L; the project required reporting limit for this analyte was 0.1 mg/L. The laboratory reporting limit for alkalinity was 10 mg/L; the project required reporting limit for this analyte was 5 mg/L. The laboratory reporting limit for total dissolved solids was 20 mg/L; the project required reporting limit for this analyte was 10 mg/L.

B. Holding Times

Technical holding time criteria were met for all project samples, with the following exceptions:

1. Samples 1213GW101CL (D0600543-001), 1349MW100CL (D0600543-002) and 1065MW9ACL (D0600543-003) were analyzed for nitrite-nitrogen four to six hours past the 48-hour analysis holding time. The sample results were qualified as estimated (J/UJ).

See Table 2 of this report for a summary of qualifications due to missed analysis holding times.

C. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project samples.

D. Laboratory Control Samples

All QC criteria were met for the laboratory control samples and laboratory control sample duplicates associated with the project samples.

E. Matrix Spike/Matrix Spike Duplicate

All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exception:

1. The percent recoveries for sulfide failed the 75%-125% project acceptance criteria in QC samples 1065MW9ACL (D0600543-003) MS/MSD at 26%/25%. The detected result for sulfide in the associated sample was qualified as estimated with a low bias (J-). (QC batch D0600543)

See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery failure.

F. Laboratory Duplicate Samples
All QC criteria were met for the laboratory duplicate samples associated with the project samples.

G. Initial and Continuing Calibrations
All initial and continuing calibration standards associated with the project samples met QC acceptance criteria.

SUMMARY

The attached Table 1 lists the samples and analyses included in the data validation effort. The attached Table 2 summarizes the data qualifications of all project samples for each test method included in the data packages.

USABILITY

The quality control criteria were reviewed, and other than those discussed above, all criteria were met and the data are considered acceptable. Rejected sample results (R) are not usable for any purpose. Estimated sample results (J/UJ) are usable only for limited purposes. Based upon the cursory level data validation, all other results are considered valid and usable for all purposes.

VALIDATION QUALIFIERS IDENTIFICATION

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," October, 1999.

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. *A minus sign (-) indicates the numerical value has a low bias. A plus sign (+) indicates the numerical value has a high bias.*

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

FIELD QC

The following paragraphs highlight the essential findings of the field duplicate samples:

Field duplicate precision was evaluated by calculating the relative percent difference (RPD) between detected results in the original sample and the associated duplicate. The control limit used for field duplicates was a relative percent difference less than or equal to 50 percent, or the absolute difference of the two results must be less than the reporting limit for those analytes that were at or near the detection limit. Six samples were collected in duplicate for the Second Quarter 2006 sampling event.

Project Sample Primary ID	Laboratory Sample ID	Project Sample Duplicate ID	Laboratory Sample ID
610GW103	187020-007	DUP0523061A	187020-008
BB3GW100	187020-009	DUP0523063A	187020-010
1213GW101	187065-009	DUP-05242006	187065-011
1349MW100	187065-012	DUP0524063A	187065-013
1065MW9A	187065-016	DUP0524063B	187065-017
BHWGW01	187112-006	DUP0525063A	187112-007

The attached Table 3 summarizes the field duplicate sample results. The detected results of the original sample and the associated duplicate sample were compared and the calculated RPDs reported. All RPDs met the 50 percent precision control limit requirement, with the following exceptions:

1. In field duplicates 610GW103 and DUP0523061A, the relative percent difference (RPD) between the detected results failed the 50% acceptance criteria for alkalinity at 57%.
2. In field duplicates 1213GW101 and DUP-05242006, the RPD between the detected results failed the 50% acceptance criteria for benzene (120%), TPH-gasoline (69%) and dissolved chromium (81%); and the absolute differences between the results were greater than the reporting limits for ethylbenzene and dissolved manganese. The original result for ethylbenzene was non-detect at 0.5 ug/L and the duplicate result was 2.7 ug/L. The original result for dissolved manganese was non-detect at 10 ug/L and the duplicate result was 29 ug/L.
3. In field duplicates 1349MW100 and DUP0524063A, the absolute difference between the results was greater than the 0.2 ug/L reporting limit for alpha-chlordane. The original result was non-detect at 0.2 ug/L and the duplicate result was 0.8 ug/L.

The analysis of field duplicate samples is a measure of both field and analytical precision. The imprecision in the results in the field duplicate pairs listed above may be due to the sample matrix, sampling or laboratory technique, or method defects. With the exceptions noted above, the results between the field duplicate pairs matched well. Since the effect on the quality of the data is not known, data is not qualified for field duplicate failure.

The following paragraphs highlight the essential findings of the QC split duplicate samples:

Laboratory analytical precision was evaluated by calculating the relative percent differences (RPD) between detected results in the samples and the associated QC split duplicate, which was sent to another laboratory for analysis. The QC split samples were sent to Columbia Analytical Services in Redding, CA. The control limit used for QC split duplicates was a relative percent difference less than or equal to 50 percent, or the absolute difference of the two results must be less than the reporting limit for those analytes that were at or near the detection limit. Four samples were collected in duplicate for the Second Quarter 2006 sampling event.

Project Sample Primary ID	Laboratory Sample ID	Project Sample Split Duplicate ID	Laboratory Sample ID
1213GW101	187065-009	1213GW101CL	D0600543-001
1349MW100	187065-012	1349MW100CL	D0600543-002
1065MW9A	187065-016	1065MW9ACL	D0600543-003
BHWGW01	187112-006	BHWGW01CL	D0600543-004

The attached Table 4 summarizes the QC split duplicate samples. The detected results were compared and the calculated RPDs reported. All RPDs met the 50 percent precision control limit requirement, with the following exceptions:

1. In QC split duplicates 1213GW101 and 1213GW101CL, the absolute difference between the results was greater than the 1 ug/L reporting limit for dissolved copper. The original result was non-detect at 1 ug/L and the duplicate result was 3 ug/L.
2. In QC split duplicates 1349MW100 and 1349MW100CL, the relative percent difference (RPD) between the reported results failed the 50% RPD acceptance criteria for TPH-gasoline (65%), fluorene (61%), fluoranthene (123%) and benzo(a)anthracene (-125%); and the absolute differences between the results were greater than the reporting limits for heptachlor epoxide, 4,4'-DDT and dissolved copper. The original result for heptachlor epoxide was 0.4 ug/L and the duplicate result was non-detect at 0.05 ug/L. The original result for 4,4'-DDT was 0.8 ug/L and the duplicate result was non-detect at 0.1 ug/L. The original result for dissolved copper was non-detect at 1 ug/L and the duplicate result was 4.3 ug/L.
3. In QC split duplicates 1065MW9A and 1065MW9A CL, the absolute difference between the results was greater than the 0.04 mg/L reporting limit for sulfide. The original result was non-detect at 0.04 mg/L and the duplicate result was 0.17 mg/L.
4. In QC split duplicates BHWGW01 and BHWGW01CL, the absolute difference between the results was greater than the 1 ug/L reporting limit for dissolved copper. The original result was non-detect at 1 ug/L and the duplicate result was 2.3 ug/L.

Data is not qualified due to RPD failure of QC split samples because the effect on the quality of the data is not known.

The following paragraphs highlight the essential findings of the field QC blank samples:

Three trip blanks, one equipment blank and two source blanks were analyzed with the project samples. All field QC blanks were non-detect for all methods analyzed, with the following exceptions:

1. Source blank DW053006B (187137-001) had a detected level of calcium at 2000 ug/L. Project sample association with this blank could not be established, and qualification was not required.
2. Source blank DW052506A (187112-013) had detected levels of calcium (3600 ug/L) and magnesium (910 ug/L). The associated samples had magnesium values greater than five times the blank amount, and qualification was not required. The results for calcium in the associated samples were changed to non-detect (U) if those values were less than five times the blank amount.
3. Source blank DW052506A (187112-013) had detected levels of alkalinity (8.9 mg/L), chloride (0.26 mg/L), sulfate (4.9 mg/L) and total dissolved solids (5600 mg/L). The associated samples had alkalinity, chloride and sulfate values greater than five times the blank amounts and qualification was not required. Qualification was not required for the physical property parameter total dissolved solids.
4. Source blank DW053006B (187137-001) had detected levels of alkalinity (4 mg/L), sulfate (1.4 mg/L) and total dissolved solids (60 mg/L). Project sample association with this blank could not be established, and qualification was not required.

Table 1
Sample Summary
Second Quarter 2006 Groundwater Sampling Event
The Presidio of San Francisco, CA

Site Sample ID	Laboratory Sample ID	Date Sampled	Analyses	Sample Type
600GW101	187020-001	23-May-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12)	Water
600GW105	187020-002	23-May-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12)	Water
600GW106	187020-003	23-May-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12)	Water
600GW108	187020-004	23-May-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12)	Water
610GW101	187020-005	23-May-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12)	Water
610GW102	187020-006	23-May-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12)	Water
610GW103	187020-007	23-May-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12)	Water (1)
DUP0523061A	187020-008	23-May-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12)	FD (1)
BB3GW100	187020-009	23-May-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3)	Water (2)
DUP0523063A	187020-010	23-May-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3)	FD (2)
BB3SW101	187020-011	23-May-06	Total & Dissolved Metals (6010B, 6020)	Water
BB3SW104	187020-012	23-May-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Total & Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3)	Water
BB3SW102	187020-013	23-May-06	Total & Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3)	Water
BB1PZ101	187020-014	23-May-06	TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Total & Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (2, 3)	Water
BB1PZ100	187020-015	23-May-06	TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Total & Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (2, 3)	Water
LF6GW103	187020-017	23-May-06	TPH-Gasoline (8015B), TPH-Diesel (8015B), Pesticides (8081A), PCBs (8082), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water
LF6GW104	187020-018	23-May-06	TPH-Diesel/FO (8015B), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water
LF6GW105	187020-019	23-May-06	Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water
LF6GW106	187020-020	23-May-06	TPH-Diesel/FO (8015B), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water

Table 1
Sample Summary
Second Quarter 2006 Groundwater Sampling Event
The Presidio of San Francisco, CA

Site Sample ID	Laboratory Sample ID	Date Sampled	Analyses	Sample Type
1065PZ1A	187065-001	24-May-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12)	Water
1065PZ2A	187065-002	24-May-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12)	Water
1065PZ4A	187065-003	24-May-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12)	Water
1065MW101	187065-004	24-May-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12)	Water
1065MW102	187065-005	24-May-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12)	Water
231GW09	187065-006	24-May-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3, 12)	Water
1221GW104	187065-007	24-May-06	Dissolved Metals (6010B, 6020), General Chemistry Parameters (2, 3)	Water
FM14EX07GW102	187065-008	24-May-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), PAHs (8310)	Water
1213GW101	187065-009	24-May-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), PAHs (8310), Dissolved Metals (6010B, 6020), General Chemistry Parameters (2, 3)	Water (3)
FM14EX07GW101	187065-010	24-May-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), PAHs (8310)	Water
DUP-05242006	187065-011	24-May-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), PAHs (8310), Dissolved Metals (6010B, 6020), General Chemistry Parameters (2, 3)	FD (3)
1349MW100	187065-012	24-May-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3)	Water (4)
DUP0524063A	187065-013	24-May-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3)	FD (4)
1065PZ1B	187065-014	24-May-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12)	Water
1065PZ5AR	187065-015	24-May-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12)	Water
1065MW9A	187065-016	24-May-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12)	Water (5)
DUP0524063B	187065-017	24-May-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12)	FD (5)
TB0524063A	187065-018	24-May-06	Volatile Organic Compounds (8260B)	Trip Blank

Table 1
Sample Summary
Second Quarter 2006 Groundwater Sampling Event
The Presidio of San Francisco, CA

Site Sample ID	Laboratory Sample ID	Date Sampled	Analyses	Sample Type
514AGW101	187112-001	25-May-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), PAHs (8310)	Water
1065MW9B	187112-002	25-May-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), BTEX/MTBE (8021B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12)	Water
LF4GW103	187112-003	25-May-06	Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3)	Water
LF4GW104	187112-004	25-May-06	Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3)	Water
WT052506	187112-005	25-May-06	Total Metals (6010B, 6020, 7470A), General Chemistry Parameters (8, 10, 11, 12, 14)	Water
BHWGW01	187112-006	25-May-06	Dissolved Metals (6010B, 6020), General Chemistry Parameters (2, 3)	Water (6)
DUP0525063A	187112-007	25-May-06	Dissolved Metals (6010B, 6020), General Chemistry Parameters (2, 3)	FD (6)
HWGW100	187112-008	25-May-06	Dissolved Metals (6010B, 6020), General Chemistry Parameters (2, 3)	Water
HWGW101	187112-009	25-May-06	Dissolved Metals (6010B, 6020), General Chemistry Parameters (2, 3)	Water
BHWGW04	187112-010	25-May-06	Dissolved Metals (6010B, 6020), General Chemistry Parameters (2, 3)	Water
BHWGW04RB05	187112-011	25-May-06	Dissolved Metals (6010B, 6020), General Chemistry Parameters (2, 3)	Equip. Blank
BHWGW05	187112-012	25-May-06	Dissolved Metals (6010B, 6020), General Chemistry Parameters (2, 3)	Water
DW052506A	187112-013	25-May-06	VOCs (8260B), TPH-Gasoline/Stoddard Solvent (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Total Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3, 12)	Source Blank
1047MW101	187112-014	25-May-06	VOCs (8260B), TPH-Gasoline/Stoddard Solvent (8015B)	Water
LF10GW01	187112-015	25-May-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
LF10GW03	187112-016	25-May-06	TPH-Gasoline (8015B), TPH-Diesel/FO (8015B)	Water
TB0525061A	187112-017	25-May-06	Volatile Organic Compounds (8260B)	Trip Blank
DW053006B	187137-001	30-May-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3)	Source Blank
1213GW101CL	D0600543-001	24-May-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), PAHs (8310), Dissolved Metals (6010B, 6020), General Chemistry Parameters (2, 3)	QC (3)
1349MW100CL	D0600543-002	24-May-06	VOCs (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Pesticides (8081A), PAHs (8310), Dissolved Metals (6010B, 6020, 7470A), General Chemistry Parameters (1, 2, 3)	QC (4)
1065MW9ACL	D0600543-003	24-May-06	BTEX/MTBE (8260B), TPH-Gasoline (8015B), TPH-Diesel/FO (8015B), Dissolved Metals (6010B, 6020), General Chemistry Parameters (1, 2, 3, 12)	QC (5)

Table 1
Sample Summary
Second Quarter 2006 Groundwater Sampling Event
The Presidio of San Francisco, CA

Site Sample ID	Laboratory Sample ID	Date Sampled	Analyses	Sample Type
BHWGW01CL	D0600543-004	25-May-06	Dissolved Metals (6010B, 6020), General Chemistry Parameters (2, 3)	QC (6)
TB0524061ACL	D0600543-005	24-May-06	Volatile Organic Compounds (8260B)	Trip Blank

W: Water
VOCs: Volatile Organic Compounds
TPH: Total Petroleum Hydrocarbons
FO: Fuel Oil
PCBs: Polychlorinated Biphenyls
PAHs: Polynuclear Aromatic Hydrocarbons
BTEX: Benzene, Toluene, Ethylbenzene, Xylenes
MTBE: Methyl t-butyl ether
FD: Field duplicate of previous numbered sample, (1), (2), etc.
QC: QC split duplicate of previous numbered sample, (1), (2), etc.

General Chemistry Parameters

(1) Total Dissolved Solids (160.1)
(2) Alkalinity (310.1)
(3) Anions (300.0)
(4) Fluoride (340.2)
(5) Nitrate-N (353.2)
(6) Nitrate/Nitrite-N (353.2)
(7) Hardness (SM 2340B)
(8) Cyanide (335.2)
(9) Surfactants (425.1)
(10) Oil & Grease (1664A)
(11) Phenolics (420.1)
(12) Sulfide (376.2)
(13) Total Organic Carbon (415.2)
(14) pH (SW9040B)

Table 2
Qualified Data Summary
Second Quarter 2006 Groundwater Sampling Event
The Presidio of San Francisco, CA

Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
BB1PZ101	187020-014	8081A	delta-BHC	UJ	Continuing calibration verification percent difference failure
BB1PZ100	187020-015	8081A	delta-BHC	UJ	Continuing calibration verification percent difference failure
LF6GW103	187020-017	8081A	delta-BHC	UJ	Continuing calibration verification percent difference failure
LF6GW103	187020-017	6010B	Aluminum, dissolved	UJ	MS/MSD %R failure, MS/MSD RPD failure
LF6GW104	187020-018	6010B	Aluminum, dissolved	UJ	MS/MSD %R failure, MS/MSD RPD failure
LF6GW105	187020-019	6010B	Aluminum, dissolved	UJ	MS/MSD %R failure, MS/MSD RPD failure
LF6GW106	187020-020	6010B	Aluminum, dissolved	UJ	MS/MSD %R failure, MS/MSD RPD failure
1065PZ1A	187065-001	376.2	Sulfide	R	MS/MSD percent recovery failure
1065PZ2A	187065-002	376.2	Sulfide	R	MS/MSD percent recovery failure
1065PZ4A	187065-003	376.2	Sulfide	R	MS/MSD percent recovery failure
1065MW101	187065-004	376.2	Sulfide	R	MS/MSD percent recovery failure
1065MW102	187065-005	376.2	Sulfide	J-	MS/MSD percent recovery failure
231GW09	187065-006	376.2	Sulfide	R	MS/MSD percent recovery failure
1349MW100	187065-012	8081A	beta-BHC	UJ	Continuing calibration verification percent difference failure
1349MW100	187065-012	8081A	delta-BHC	UJ	Continuing calibration verification percent difference failure
DUP0524063A	187065-013	8081A	beta-BHC	UJ	Continuing calibration verification percent difference failure
DUP0524063A	187065-013	8081A	delta-BHC	UJ	Continuing calibration verification percent difference failure
1065PZ1B	187065-014	376.2	Sulfide	R	MS/MSD percent recovery failure
1065PZ5AR	187065-015	376.2	Sulfide	R	MS/MSD percent recovery failure
1065MW9A	187065-016	376.2	Sulfide	R	MS/MSD percent recovery failure
DUP0524063B	187065-017	376.2	Sulfide	R	MS/MSD percent recovery failure
1065MW9B	187112-002	6010B	Aluminum, dissolved	UJ	MS/MSD %R failure, MS/MSD RPD failure
LF4GW103	187112-003	6010B	Aluminum, dissolved	UJ	MS/MSD %R failure, MS/MSD RPD failure
LF4GW104	187112-004	6010B	Aluminum, dissolved	UJ	MS/MSD %R failure, MS/MSD RPD failure
BHWGW01	187112-006	6010B	Aluminum, dissolved	UJ	MS/MSD %R failure, MS/MSD RPD failure
BHWGW01	187112-006	6010B	Calcium, dissolved	U	Source blank contamination
DUP0525063A	187112-007	6010B	Aluminum, dissolved	UJ	MS/MSD %R failure, MS/MSD RPD failure
DUP0525063A	187112-007	6010B	Calcium, dissolved	U	Source blank contamination
HWGW100	187112-008	6010B	Aluminum, dissolved	UJ	MS/MSD %R failure, MS/MSD RPD failure
HWGW100	187112-008	6010B	Calcium, dissolved	U	Source blank contamination
HWGW101	187112-009	6010B	Aluminum, dissolved	UJ	MS/MSD %R failure, MS/MSD RPD failure

Table 2
Qualified Data Summary
Second Quarter 2006 Groundwater Sampling Event
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Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
HWGW101	187112-009	6010B	Calcium, dissolved	U	Source blank contamination
BHWGW04	187112-010	6010B	Aluminum, dissolved	UJ	MS/MSD %R failure, MS/MSD RPD failure
BHWGW04	187112-010	6010B	Calcium, dissolved	U	Source blank contamination
BHWGW04RB05	187112-011	6010B	Aluminum, dissolved	UJ	MS/MSD %R failure, MS/MSD RPD failure
BHWGW05	187112-012	6010B	Aluminum, dissolved	UJ	MS/MSD %R failure, MS/MSD RPD failure
DW052506A	187112-013	8081A	beta-BHC	UJ	Continuing calibration verification percent difference failure
DW052506A	187112-013	8081A	delta-BHC	UJ	Continuing calibration verification percent difference failure
DW052506A	187112-013	8081A	4,4'-DDE	UJ	Continuing calibration verification percent difference failure
DW052506A	187112-013	6010B	Aluminum, dissolved (db-check, shb total)	UJ	MS/MSD %R failure, MS/MSD RPD failure
DW053006B	187137-001	6010B	Aluminum, dissolved	UJ	MS/MSD %R failure, MS/MSD RPD failure
1213GW101CL	D0600543-001	8310	Acenaphthene	UJ	Surrogate percent recovery failure
1213GW101CL	D0600543-001	8310	Acenaphthylene	UJ	Surrogate percent recovery failure
1213GW101CL	D0600543-001	8310	Anthracene	UJ	Surrogate percent recovery failure
1213GW101CL	D0600543-001	8310	Benzo(a)anthracene	UJ	Surrogate percent recovery failure
1213GW101CL	D0600543-001	8310	Benzo(a)pyrene	UJ	Surrogate percent recovery failure
1213GW101CL	D0600543-001	8310	Benzo(b)fluoranthene	UJ	Surrogate percent recovery failure
1213GW101CL	D0600543-001	8310	Benzo(g,h,i)perylene	UJ	Surrogate percent recovery failure
1213GW101CL	D0600543-001	8310	Benzo(k)fluoranthene	UJ	Surrogate percent recovery failure
1213GW101CL	D0600543-001	8310	Chrysene	UJ	Surrogate percent recovery failure
1213GW101CL	D0600543-001	8310	Dibenz(a,h)anthracene	UJ	Surrogate percent recovery failure
1213GW101CL	D0600543-001	8310	Fluoranthene	UJ	Surrogate percent recovery failure
1213GW101CL	D0600543-001	8310	Fluorene	UJ	Surrogate percent recovery failure
1213GW101CL	D0600543-001	8310	Indeno(1,2,3-cd)pyrene	UJ	Surrogate percent recovery failure
1213GW101CL	D0600543-001	8310	Naphthalene	UJ	Surrogate percent recovery failure
1213GW101CL	D0600543-001	8310	Phenanthrene	UJ	Surrogate percent recovery failure
1213GW101CL	D0600543-001	8310	Pyrene	UJ	Surrogate percent recovery failure

Table 2
Qualified Data Summary
Second Quarter 2006 Groundwater Sampling Event
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Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
1213GW101CL	D0600543-001	300.1	Nitrite-Nitrogen	J	Missed analysis holding time
1349MW100CL	D0600543-002	8081A	Dieldrin	UJ	Surrogate percent recovery failure
1349MW100CL	D0600543-002	8081A	4,4'-DDE	UJ	Surrogate percent recovery failure
1349MW100CL	D0600543-002	8081A	Endrin	UJ	Surrogate percent recovery failure
1349MW100CL	D0600543-002	8081A	Endosulfan II	UJ	Surrogate percent recovery failure
1349MW100CL	D0600543-002	8081A	4,4'-DDD	UJ	Surrogate percent recovery failure
1349MW100CL	D0600543-002	8081A	Endosulfan sulfate	UJ	Surrogate percent recovery failure
1349MW100CL	D0600543-002	8081A	4,4'-DDT	UJ	Surrogate percent recovery failure
1349MW100CL	D0600543-002	8081A	Methoxychlor	UJ	Surrogate percent recovery failure
1349MW100CL	D0600543-002	8081A	Endrin ketone	UJ	Surrogate percent recovery failure
1349MW100CL	D0600543-002	8081A	alpha-Chlordane	UJ	Surrogate percent recovery failure
1349MW100CL	D0600543-002	8081A	gamma-Chlordane	UJ	Surrogate percent recovery failure
1349MW100CL	D0600543-002	8081A	Toxaphene	UJ	Surrogate percent recovery failure
1349MW100CL	D0600543-002	8310	Acenaphthene	J-	Surrogate percent recovery failure
1349MW100CL	D0600543-002	8310	Acenaphthylene	UJ	Surrogate percent recovery failure
1349MW100CL	D0600543-002	8310	Anthracene	J-	Surrogate percent recovery failure
1349MW100CL	D0600543-002	8310	Benzo(a)anthracene	J-	Surrogate percent recovery failure
1349MW100CL	D0600543-002	8310	Benzo(a)pyrene	UJ	Surrogate percent recovery failure
1349MW100CL	D0600543-002	8310	Benzo(b)fluoranthene	UJ	Surrogate percent recovery failure
1349MW100CL	D0600543-002	8310	Benzo(g,h,i)perylene	UJ	Surrogate percent recovery failure
1349MW100CL	D0600543-002	8310	Benzo(k)fluoranthene	UJ	Surrogate percent recovery failure
1349MW100CL	D0600543-002	8310	Chrysene	UJ	Surrogate percent recovery failure
1349MW100CL	D0600543-002	8310	Dibenz(a,h)anthracene	UJ	Surrogate percent recovery failure
1349MW100CL	D0600543-002	8310	Fluoranthene	J-	Surrogate percent recovery failure
1349MW100CL	D0600543-002	8310	Fluorene	J-	Surrogate percent recovery failure
1349MW100CL	D0600543-002	8310	Indeno(1,2,3-cd)pyrene	UJ	Surrogate percent recovery failure
1349MW100CL	D0600543-002	8310	Naphthalene	UJ	Surrogate percent recovery failure
1349MW100CL	D0600543-002	8310	Phenanthrene	J-	Surrogate percent recovery failure
1349MW100CL	D0600543-002	8310	Pyrene	J-	Surrogate percent recovery failure
1349MW100CL	D0600543-002	6010B	Iron	J+	LCS/LCSD percent recovery failure
1349MW100CL	D0600543-002	300.1	Nitrite-Nitrogen	UJ	Missed analysis holding time
1065MW9ACL	D0600543-003	8015M	TPH-Diesel	UJ	Surrogate percent recovery failure

Table 2
Qualified Data Summary
Second Quarter 2006 Groundwater Sampling Event
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Sample ID	Laboratory ID	Analysis Method	Compound	Qualifier	Reason
1065MW9ACL	D0600543-003	8015M	TPH-Fuel Oil	UJ	Surrogate percent recovery failure
1065MW9ACL	D0600543-003	6010B	Iron	J+	LCS/LCSD percent recovery failure
1065MW9ACL	D0600543-003	300.1	Nitrite-Nitrogen	UJ	Missed analysis holding time
1065MW9ACL	D0600543-003	376.2	Sulfide	J-	MS/MSD percent recovery failure

Table 3
Summary of Field Duplicates
Second Quarter 2006 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	Duplicate Sample ID	Laboratory ID	Duplicate Results*	RPD
610GW103	187020-007	Water	Gasoline C7-C12	ND	DUP0523061A	187020-008	ND	NA
610GW103	187020-007	Water	Methyl tertiary-butyl ether	3.2	DUP0523061A	187020-008	ND< 2.0	NC
610GW103	187020-007	Water	Benzene	ND	DUP0523061A	187020-008	ND	NA
610GW103	187020-007	Water	Toluene	ND	DUP0523061A	187020-008	ND	NA
610GW103	187020-007	Water	Ethylbenzene	ND	DUP0523061A	187020-008	ND	NA
610GW103	187020-007	Water	Xylene (total)	ND	DUP0523061A	187020-008	ND	NA
610GW103	187020-007	Water	Diesel C12-C24	ND	DUP0523061A	187020-008	ND	NA
610GW103	187020-007	Water	Fuel Oil C24-C36	ND	DUP0523061A	187020-008	ND	NA
610GW103	187020-007	Water	Arsenic, dissolved	5.9	DUP0523061A	187020-008	6.3	-6.6%
610GW103	187020-007	Water	Calcium, dissolved	63000	DUP0523061A	187020-008	65000	-3.1%
610GW103	187020-007	Water	Iron, dissolved	3500	DUP0523061A	187020-008	3400	2.9%
610GW103	187020-007	Water	Magnesium, dissolved	41000	DUP0523061A	187020-008	42000	-2.4%
610GW103	187020-007	Water	Manganese, dissolved	2400	DUP0523061A	187020-008	2500	-4.1%
610GW103	187020-007	Water	Potassium, dissolved	6900	DUP0523061A	187020-008	7100	-2.9%
610GW103	187020-007	Water	Sodium, dissolved	76000	DUP0523061A	187020-008	77000	-1.3%
610GW103	187020-007	Water	All other metals	ND	DUP0523061A	187020-008	ND	NA
610GW103	187020-007	Water	Alkalinity	740	DUP0523061A	187020-008	410	**57%**
610GW103	187020-007	Water	Chloride	47	DUP0523061A	187020-008	47	0%
610GW103	187020-007	Water	Fluoride	0.24	DUP0523061A	187020-008	0.24	0%
610GW103	187020-007	Water	Nitrate-nitrogen	ND	DUP0523061A	187020-008	ND	NA
610GW103	187020-007	Water	Nitrite-nitrogen	ND	DUP0523061A	187020-008	ND	NA
610GW103	187020-007	Water	Sulfate	67	DUP0523061A	187020-008	68	-1.5%
610GW103	187020-007	Water	Sulfide	0.05	DUP0523061A	187020-008	0.08	-46%
610GW103	187020-007	Water	Total dissolved solids	520	DUP0523061A	187020-008	490	5.9%
BB3GW100	187020-009	Water	Gasoline C7-C12	ND	DUP0523063A	187020-010	ND	NA
BB3GW100	187020-009	Water	Diesel C12-C24	ND	DUP0523063A	187020-010	ND	NA
BB3GW100	187020-009	Water	Fuel Oil C24-C36	ND	DUP0523063A	187020-010	ND	NA
BB3GW100	187020-009	Water	Barium, dissolved	81	DUP0523063A	187020-010	77	5.1%
BB3GW100	187020-009	Water	Calcium, dissolved	22000	DUP0523063A	187020-010	21000	4.7%
BB3GW100	187020-009	Water	Copper, dissolved	1.1	DUP0523063A	187020-010	1.6	-37%
BB3GW100	187020-009	Water	Magnesium, dissolved	74000	DUP0523063A	187020-010	72000	2.7%
BB3GW100	187020-009	Water	Potassium, dissolved	600	DUP0523063A	187020-010	640	-6.5%
BB3GW100	187020-009	Water	Sodium, dissolved	97000	DUP0523063A	187020-010	95000	2.1%
BB3GW100	187020-009	Water	All other Metals	ND	DUP0523063A	187020-010	ND	NA
BB3GW100	187020-009	Water	Alkalinity	200	DUP0523063A	187020-010	200	0%
BB3GW100	187020-009	Water	Chloride	200	DUP0523063A	187020-010	200	0%
BB3GW100	187020-009	Water	Fluoride	ND	DUP0523063A	187020-010	ND	NA
BB3GW100	187020-009	Water	Nitrate-nitrogen	7.9	DUP0523063A	187020-010	7.8	1.3%

Table 3
Summary of Field Duplicates
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Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	Duplicate Sample ID	Laboratory ID	Duplicate Results*	RPD
BB3GW100	187020-009	Water	Nitrite-nitrogen	ND	DUP0523063A	187020-010	ND	NA
BB3GW100	187020-009	Water	Sulfate	49	DUP0523063A	187020-010	48	2.1%
BB3GW100	187020-009	Water	Total dissolved solids	640	DUP0523063A	187020-010	660	-3.1%
1213GW101	187065-009	Water	1,2-Dichloroethane	6.6	DUP-05242006	187065-011	9.6	-37%
1213GW101	187065-009	Water	Benzene	8.5	DUP-05242006	187065-011	34	**-120%**
1213GW101	187065-009	Water	Toluene	ND< 0.5	DUP-05242006	187065-011	0.8	NC
1213GW101	187065-009	Water	Ethylbenzene	ND< 0.5	DUP-05242006	187065-011	2.7	**> RL**
1213GW101	187065-009	Water	Xylene (total)	ND< 0.5	DUP-05242006	187065-011	0.9	NC
1213GW101	187065-009	Water	All other VOCs	ND	DUP-05242006	187065-011	ND	NA
1213GW101	187065-009	Water	Gasoline C7-C12	68	DUP-05242006	187065-011	140	**-69%**
1213GW101	187065-009	Water	Diesel C12-C24	ND	DUP-05242006	187065-011	ND	NA
1213GW101	187065-009	Water	Fuel Oil C24-C36	ND	DUP-05242006	187065-011	ND	NA
1213GW101	187065-009	Water	All PAHs	ND	DUP-05242006	187065-011	ND	NA
1213GW101	187065-009	Water	Arsenic, dissolved	6.3	DUP-05242006	187065-011	5.8	8.3%
1213GW101	187065-009	Water	Barium, dissolved	10	DUP-05242006	187065-011	11	-9.5%
1213GW101	187065-009	Water	Calcium, dissolved	19000	DUP-05242006	187065-011	19000	0%
1213GW101	187065-009	Water	Chromium, dissolved	54	DUP-05242006	187065-011	23	**81%**
1213GW101	187065-009	Water	Magnesium, dissolved	72000	DUP-05242006	187065-011	71000	1.4%
1213GW101	187065-009	Water	Manganese, dissolved	ND< 10	DUP-05242006	187065-011	29	**> RL**
1213GW101	187065-009	Water	Potassium, dissolved	2600	DUP-05242006	187065-011	2500	3.9%
1213GW101	187065-009	Water	Sodium, dissolved	340000	DUP-05242006	187065-011	300000	13%
1213GW101	187065-009	Water	Zinc, dissolved	ND< 20	DUP-05242006	187065-011	21	NC
1213GW101	187065-009	Water	All other Metals	ND	DUP-05242006	187065-011	ND	NA
1213GW101	187065-009	Water	Alkalinity	400	DUP-05242006	187065-011	390	2.5%
1213GW101	187065-009	Water	Chloride	310	DUP-05242006	187065-011	320	-3.2%
1213GW101	187065-009	Water	Fluoride	0.1	DUP-05242006	187065-011	0.11	-9.5%
1213GW101	187065-009	Water	Nitrate-nitrogen	1.8	DUP-05242006	187065-011	1.4	25%
1213GW101	187065-009	Water	Nitrite-nitrogen	ND	DUP-05242006	187065-011	ND	NA
1213GW101	187065-009	Water	Sulfate	140	DUP-05242006	187065-011	130	7.4%
1349MW100	187065-012	Water	Carbon disulfide	0.7	DUP0524063A	187065-013	0.8	-13%
1349MW100	187065-012	Water	Benzene	29	DUP0524063A	187065-013	28	3.5%
1349MW100	187065-012	Water	Ethylbenzene	0.8	DUP0524063A	187065-013	0.8	0%
1349MW100	187065-012	Water	Xylene (total)	3.8	DUP0524063A	187065-013	3.7	2.7%
1349MW100	187065-012	Water	All other VOCs	ND	DUP0524063A	187065-013	ND	NA
1349MW100	187065-012	Water	Gasoline C7-C12	690	DUP0524063A	187065-013	490	34%
1349MW100	187065-012	Water	Diesel C12-C24	3600	DUP0524063A	187065-013	5200	-36%
1349MW100	187065-012	Water	Fuel Oil C24-C36	ND	DUP0524063A	187065-013	ND	NA
1349MW100	187065-012	Water	Aldrin	ND< 0.2	DUP0524063A	187065-013	0.3	NC

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Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	Duplicate Sample ID	Laboratory ID	Duplicate Results*	RPD
1349MW100	187065-012	Water	Heptachlor epoxide	0.4	DUP0524063A	187065-013	0.3	29%
1349MW100	187065-012	Water	4,4'-DDT	0.8	DUP0524063A	187065-013	0.8	0%
1349MW100	187065-012	Water	alpha-Chlordane	ND< 0.2	DUP0524063A	187065-013	0.8	**> RL**
1349MW100	187065-012	Water	All other Pesticides	ND	DUP0524063A	187065-013	ND	NA
1349MW100	187065-012	Water	Acenaphthene	3.6	DUP0524063A	187065-013	4.3	-18%
1349MW100	187065-012	Water	Fluorene	7.5	DUP0524063A	187065-013	8.4	-11%
1349MW100	187065-012	Water	Phenanthrene	4.9	DUP0524063A	187065-013	5.8	-17%
1349MW100	187065-012	Water	Anthracene	0.2	DUP0524063A	187065-013	0.28	-33%
1349MW100	187065-012	Water	Fluoranthene	1.6	DUP0524063A	187065-013	1.8	-12%
1349MW100	187065-012	Water	Pyrene	0.38	DUP0524063A	187065-013	0.48	-23%
1349MW100	187065-012	Water	Benzo(a)anthracene	0.11	DUP0524063A	187065-013	0.14	-24%
1349MW100	187065-012	Water	Chrysene	ND< 0.10	DUP0524063A	187065-013	0.1	NC
1349MW100	187065-012	Water	All other PAHs	ND	DUP0524063A	187065-013	ND	NA
1349MW100	187065-012	Water	Arsenic, dissolved	13	DUP0524063A	187065-013	12	8.0%
1349MW100	187065-012	Water	Barium, dissolved	380	DUP0524063A	187065-013	380	0%
1349MW100	187065-012	Water	Calcium, dissolved	150000	DUP0524063A	187065-013	140000	6.9%
1349MW100	187065-012	Water	Iron, dissolved	33000	DUP0524063A	187065-013	34000	-3.0%
1349MW100	187065-012	Water	Magnesium, dissolved	200000	DUP0524063A	187065-013	200000	0%
1349MW100	187065-012	Water	Manganese, dissolved	14000	DUP0524063A	187065-013	14000	0%
1349MW100	187065-012	Water	Potassium, dissolved	3800	DUP0524063A	187065-013	3500	8.2%
1349MW100	187065-012	Water	Sodium, dissolved	460000	DUP0524063A	187065-013	450000	2.2%
1349MW100	187065-012	Water	All other Metals	ND	DUP0524063A	187065-013	ND	NA
1349MW100	187065-012	Water	Alkalinity	910	DUP0524063A	187065-013	860	5.6%
1349MW100	187065-012	Water	Chloride	850	DUP0524063A	187065-013	830	2.4%
1349MW100	187065-012	Water	Fluoride	0.23	DUP0524063A	187065-013	0.23	0%
1349MW100	187065-012	Water	Nitrate-nitrogen	ND	DUP0524063A	187065-013	ND	NA
1349MW100	187065-012	Water	Nitrite-nitrogen	ND	DUP0524063A	187065-013	ND	NA
1349MW100	187065-012	Water	Sulfate	60	DUP0524063A	187065-013	65	-8.0%
1349MW100	187065-012	Water	Total dissolved solids	2550	DUP0524063A	187065-013	2460	3.6%
1065MW9A	187065-016	Water	Gasoline C7-C12	ND	DUP0524063B	187065-017	ND	NA
1065MW9A	187065-016	Water	Methyl tertiary-butyl ether	ND	DUP0524063B	187065-017	ND	NA
1065MW9A	187065-016	Water	Benzene	ND	DUP0524063B	187065-017	ND	NA
1065MW9A	187065-016	Water	Toluene	ND	DUP0524063B	187065-017	ND	NA
1065MW9A	187065-016	Water	Ethylbenzene	ND	DUP0524063B	187065-017	ND	NA
1065MW9A	187065-016	Water	Xylene (total)	ND	DUP0524063B	187065-017	ND	NA
1065MW9A	187065-016	Water	Diesel C12-C24	ND	DUP0524063B	187065-017	ND	NA
1065MW9A	187065-016	Water	Fuel Oil C24-C36	ND	DUP0524063B	187065-017	ND	NA
1065MW9A	187065-016	Water	Arsenic, dissolved	6.8	DUP0524063B	187065-017	6.9	-1.5%

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The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	Duplicate Sample ID	Laboratory ID	Duplicate Results*	RPD
1065MW9A	187065-016	Water	Calcium, dissolved	61000	DUP0524063B	187065-017	65000	-6.3%
1065MW9A	187065-016	Water	Iron, dissolved	5900	DUP0524063B	187065-017	6200	-5.0%
1065MW9A	187065-016	Water	Magnesium, dissolved	93000	DUP0524063B	187065-017	99000	-6.3%
1065MW9A	187065-016	Water	Manganese, dissolved	540	DUP0524063B	187065-017	550	-1.8%
1065MW9A	187065-016	Water	Potassium, dissolved	17000	DUP0524063B	187065-017	18000	-5.7%
1065MW9A	187065-016	Water	Sodium, dissolved	68000	DUP0524063B	187065-017	72000	-5.7%
1065MW9A	187065-016	Water	All other Metals	ND	DUP0524063B	187065-017	ND	NA
1065MW9A	187065-016	Water	Alkalinity	430	DUP0524063B	187065-017	430	0%
1065MW9A	187065-016	Water	Chloride	170	DUP0524063B	187065-017	170	0%
1065MW9A	187065-016	Water	Fluoride	0.12	DUP0524063B	187065-017	0.12	0%
1065MW9A	187065-016	Water	Nitrate-nitrogen	ND	DUP0524063B	187065-017	ND	NA
1065MW9A	187065-016	Water	Nitrite-nitrogen	ND	DUP0524063B	187065-017	ND	NA
1065MW9A	187065-016	Water	Sulfate	21	DUP0524063B	187065-017	21	0%
1065MW9A	187065-016	Water	Sulfide	ND	DUP0524063B	187065-017	ND	NA
1065MW9A	187065-016	Water	Total dissolved solids	770	DUP0524063B	187065-017	890	-14%
BHWGW01	187112-006	Water	Barium, dissolved	46	DUP0525063A	187112-007	49	-6.3%
BHWGW01	187112-006	Water	Calcium, dissolved	16000	DUP0525063A	187112-007	17000	-6.1%
BHWGW01	187112-006	Water	Chromium, dissolved	110	DUP0525063A	187112-007	120	-8.7%
BHWGW01	187112-006	Water	Magnesium, dissolved	75000	DUP0525063A	187112-007	79000	-5.2%
BHWGW01	187112-006	Water	Sodium, dissolved	230000	DUP0525063A	187112-007	240000	-4.3%
BHWGW01	187112-006	Water	All other Metals	ND	DUP0525063A	187112-007	ND	NA
BHWGW01	187112-006	Water	Alkalinity	520	DUP0525063A	187112-007	530	-1.9%
BHWGW01	187112-006	Water	Chloride	200	DUP0525063A	187112-007	200	0%
BHWGW01	187112-006	Water	Fluoride	ND	DUP0525063A	187112-007	ND	NA
BHWGW01	187112-006	Water	Nitrate-nitrogen	5.6	DUP0525063A	187112-007	5.3	5.5%
BHWGW01	187112-006	Water	Nitrite-nitrogen	ND	DUP0525063A	187112-007	ND	NA
BHWGW01	187112-006	Water	Sulfate	67	DUP0525063A	187112-007	66	1.5%

*Units for oganic and metals analyses are ug/L; units for general chemistry analyses are mg/L.
RL: Reporting limit
VOCs: Volatile Organic Compounds
PCBs: Polychlorinated Biphenyls
PAHs: Polynuclear Aromatic Hydrocarbons
ND: Not detected
NC: Not calculated. The absolute difference between the sample result and the duplicate sample result is less than the reporting limit.
N/A: Not analyzed
NA: Not applicable. Calculation of the relative percent difference between the sample result and the duplicate sample result is not applicable.

Table 4
Summary of QC Split Duplicates
Second Quarter 2006 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	QC Split Sample ID	Laboratory ID	Duplicate Results*	RPD
1213GW101	187065-009	Water	1,2-Dichloroethane	6.6	1213GW101CL	D0600543-001	8	-19%
1213GW101	187065-009	Water	Benzene	8.5	1213GW101CL	D0600543-001	11	-26%
1213GW101	187065-009	Water	Ethylbenzene	ND< 0.5	1213GW101CL	D0600543-001	0.63	NC
1213GW101	187065-009	Water	All other VOCs	ND	1213GW101CL	D0600543-001	ND	NA
1213GW101	187065-009	Water	Gasoline C7-C12	68	1213GW101CL	D0600543-001	ND< 50	NC
1213GW101	187065-009	Water	Diesel C12-C24	ND	1213GW101CL	D0600543-001	ND	NA
1213GW101	187065-009	Water	Fuel Oil C24-C36	ND	1213GW101CL	D0600543-001	ND	NA
1213GW101	187065-009	Water	All PAHs	ND	1213GW101CL	D0600543-001	ND	NA
1213GW101	187065-009	Water	Arsenic, dissolved	6.3	1213GW101CL	D0600543-001	6.1	3.2%
1213GW101	187065-009	Water	Barium, dissolved	10	1213GW101CL	D0600543-001	17	NC
1213GW101	187065-009	Water	Calcium, dissolved	19000	1213GW101CL	D0600543-001	21100	-10%
1213GW101	187065-009	Water	Chromium, dissolved	54	1213GW101CL	D0600543-001	44	20%
1213GW101	187065-009	Water	Copper, dissolved	ND< 1	1213GW101CL	D0600543-001	3	**> RL**
1213GW101	187065-009	Water	Magnesium, dissolved	72000	1213GW101CL	D0600543-001	80800	-12%
1213GW101	187065-009	Water	Manganese, dissolved	ND< 10	1213GW101CL	D0600543-001	18	NC
1213GW101	187065-009	Water	Nickel, dissolved	ND< 20	1213GW101CL	D0600543-001	4.7	NC
1213GW101	187065-009	Water	Potassium, dissolved	2600	1213GW101CL	D0600543-001	ND< 5000	NC
1213GW101	187065-009	Water	Selenium, dissolved	ND< 5	1213GW101CL	D0600543-001	2.1	NC
1213GW101	187065-009	Water	Sodium, dissolved	340000	1213GW101CL	D0600543-001	341000	0%
1213GW101	187065-009	Water	All other Metals	ND	1213GW101CL	D0600543-001	ND	NA
1213GW101	187065-009	Water	Alkalinity	400	1213GW101CL	D0600543-001	404	-1.0%
1213GW101	187065-009	Water	Chloride	310	1213GW101CL	D0600543-001	362	-15%
1213GW101	187065-009	Water	Fluoride	0.1	1213GW101CL	D0600543-001	ND< 1	NC
1213GW101	187065-009	Water	Nitrate-nitrogen	1.8	1213GW101CL	D0600543-001	1.76	2.2%
1213GW101	187065-009	Water	Nitrite-nitrogen	ND< 0.05	1213GW101CL	D0600543-001	0.022	NC
1213GW101	187065-009	Water	Sulfate	140	1213GW101CL	D0600543-001	132	5.9%
1349MW100	187065-012	Water	Carbon disulfide	0.7	1349MW100CL	D0600543-002	ND< 5	NC
1349MW100	187065-012	Water	Benzene	29	1349MW100CL	D0600543-002	30	-3.4%
1349MW100	187065-012	Water	Ethylbenzene	0.8	1349MW100CL	D0600543-002	0.9	-12%
1349MW100	187065-012	Water	Xylene (total)	3.8	1349MW100CL	D0600543-002	4.2	-10%
1349MW100	187065-012	Water	All other VOCs	ND	1349MW100CL	D0600543-002	ND	NA
1349MW100	187065-012	Water	Gasoline C7-C12	690	1349MW100CL	D0600543-002	350	**65%**
1349MW100	187065-012	Water	Diesel C12-C24	3600	1349MW100CL	D0600543-002	5100	-34%
1349MW100	187065-012	Water	Fuel Oil C24-C36	ND	1349MW100CL	D0600543-002	ND	NA

Table 4
Summary of QC Split Duplicates
Second Quarter 2006 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	QC Split Sample ID	Laboratory ID	Duplicate Results*	RPD
1349MW100	187065-012	Water	Heptachlor epoxide	0.4	1349MW100CL	D0600543-002	ND< 0.05	**> RL**
1349MW100	187065-012	Water	4,4'-DDT	0.8	1349MW100CL	D0600543-002	ND< 0.1	**> RL**
1349MW100	187065-012	Water	gamma-BHC	ND< 0.2	1349MW100CL	D0600543-002	0.082	NC
1349MW100	187065-012	Water	All other Pesticides	ND	1349MW100CL	D0600543-002	ND	NA
1349MW100	187065-012	Water	Acenaphthene	3.6	1349MW100CL	D0600543-002	5.6	-43%
1349MW100	187065-012	Water	Fluorene	7.5	1349MW100CL	D0600543-002	4	**61%**
1349MW100	187065-012	Water	Phenanthrene	4.9	1349MW100CL	D0600543-002	3.5	33%
1349MW100	187065-012	Water	Anthracene	0.2	1349MW100CL	D0600543-002	0.24	-18%
1349MW100	187065-012	Water	Fluoranthene	1.6	1349MW100CL	D0600543-002	0.38	**123%**
1349MW100	187065-012	Water	Pyrene	0.38	1349MW100CL	D0600543-002	0.44	-15%
1349MW100	187065-012	Water	Benzo(a)anthracene	0.11	1349MW100CL	D0600543-002	0.48	**-125%**
1349MW100	187065-012	Water	All other PAHs	ND	1349MW100CL	D0600543-002	ND	NA
1349MW100	187065-012	Water	Arsenic, dissolved	13	1349MW100CL	D0600543-002	15	-14%
1349MW100	187065-012	Water	Barium, dissolved	380	1349MW100CL	D0600543-002	425	-11%
1349MW100	187065-012	Water	Calcium, dissolved	150000	1349MW100CL	D0600543-002	165000	-10%
1349MW100	187065-012	Water	Cobalt, dissolved	ND< 10	1349MW100CL	D0600543-002	5.1	NC
1349MW100	187065-012	Water	Copper, dissolved	ND< 1	1349MW100CL	D0600543-002	4.3	**> RL**
1349MW100	187065-012	Water	Iron, dissolved	33000	1349MW100CL	D0600543-002	36500	-10%
1349MW100	187065-012	Water	Magnesium, dissolved	200000	1349MW100CL	D0600543-002	226000	-12%
1349MW100	187065-012	Water	Manganese, dissolved	14000	1349MW100CL	D0600543-002	14800	-5.6%
1349MW100	187065-012	Water	Nickel, dissolved	ND< 20	1349MW100CL	D0600543-002	15	NC
1349MW100	187065-012	Water	Potassium, dissolved	3800	1349MW100CL	D0600543-002	ND< 5000	NC
1349MW100	187065-012	Water	Sodium, dissolved	460000	1349MW100CL	D0600543-002	502000	-8.7%
1349MW100	187065-012	Water	All other Metals	ND	1349MW100CL	D0600543-002	ND	NA
1349MW100	187065-012	Water	Alkalinity	910	1349MW100CL	D0600543-002	820	10%
1349MW100	187065-012	Water	Chloride	850	1349MW100CL	D0600543-002	930	-9.0%
1349MW100	187065-012	Water	Fluoride	0.23	1349MW100CL	D0600543-002	ND< 1	NC
1349MW100	187065-012	Water	Nitrate-nitrogen	ND	1349MW100CL	D0600543-002	ND	NA
1349MW100	187065-012	Water	Nitrite-nitrogen	ND	1349MW100CL	D0600543-002	ND	NA
1349MW100	187065-012	Water	Sulfate	60	1349MW100CL	D0600543-002	55.9	7.1%
1349MW100	187065-012	Water	Total dissolved solids	2550	1349MW100CL	D0600543-002	2110	19%
1065MW9A	187065-016	Water	Gasoline C7-C12	ND	1065MW9ACL	D0600543-003	ND	NA
1065MW9A	187065-016	Water	Methyl tertiary-butyl ether	ND	1065MW9ACL	D0600543-003	ND	NA
1065MW9A	187065-016	Water	Benzene	ND	1065MW9ACL	D0600543-003	ND	NA

Table 4
Summary of QC Split Duplicates
Second Quarter 2006 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	QC Split Sample ID	Laboratory ID	Duplicate Results*	RPD
1065MW9A	187065-016	Water	Toluene	ND	1065MW9ACL	D0600543-003	ND	NA
1065MW9A	187065-016	Water	Ethylbenzene	ND	1065MW9ACL	D0600543-003	ND	NA
1065MW9A	187065-016	Water	Xylene (total)	ND	1065MW9ACL	D0600543-003	ND	NA
1065MW9A	187065-016	Water	Diesel C12-C24	ND	1065MW9ACL	D0600543-003	ND	NA
1065MW9A	187065-016	Water	Fuel Oil C24-C36	ND	1065MW9ACL	D0600543-003	ND	NA
1065MW9A	187065-016	Water	Arsenic, dissolved	6.8	1065MW9ACL	D0600543-003	7.5	-10%
1065MW9A	187065-016	Water	Calcium, dissolved	61000	1065MW9ACL	D0600543-003	69900	-14%
1065MW9A	187065-016	Water	Iron, dissolved	5900	1065MW9ACL	D0600543-003	7160	-19%
1065MW9A	187065-016	Water	Magnesium, dissolved	93000	1065MW9ACL	D0600543-003	102000	-9.2%
1065MW9A	187065-016	Water	Manganese, dissolved	540	1065MW9ACL	D0600543-003	563	-4.2%
1065MW9A	187065-016	Water	Nickel, dissolved	ND< 20	1065MW9ACL	D0600543-003	2.6	NC
1065MW9A	187065-016	Water	Potassium, dissolved	17000	1065MW9ACL	D0600543-003	17800	-4.6%
1065MW9A	187065-016	Water	Sodium, dissolved	68000	1065MW9ACL	D0600543-003	76100	-11%
1065MW9A	187065-016	Water	All other Metals	ND	1065MW9ACL	D0600543-003	ND	NA
1065MW9A	187065-016	Water	Alkalinity	430	1065MW9ACL	D0600543-003	436	-1.4%
1065MW9A	187065-016	Water	Chloride	170	1065MW9ACL	D0600543-003	170	0%
1065MW9A	187065-016	Water	Fluoride	0.12	1065MW9ACL	D0600543-003	ND< 1	NC
1065MW9A	187065-016	Water	Nitrate-nitrogen	ND	1065MW9ACL	D0600543-003	ND	NA
1065MW9A	187065-016	Water	Nitrite-nitrogen	ND	1065MW9ACL	D0600543-003	ND	NA
1065MW9A	187065-016	Water	Sulfate	21	1065MW9ACL	D0600543-003	17.3	19%
1065MW9A	187065-016	Water	Sulfide	ND< 0.04	1065MW9ACL	D0600543-003	0.17	**> RL**
1065MW9A	187065-016	Water	Total dissolved solids	770	1065MW9ACL	D0600543-003	694	10%
BHWGW01	187112-006	Water	Barium, dissolved	46	BHWGW01CL	D0600543-004	53	-14%
BHWGW01	187112-006	Water	Calcium, dissolved	16000	BHWGW01CL	D0600543-004	19600	-20%
BHWGW01	187112-006	Water	Chromium, dissolved	110	BHWGW01CL	D0600543-004	128	-15%
BHWGW01	187112-006	Water	Copper, dissolved	ND< 1	BHWGW01CL	D0600543-004	2.3	**> RL**
BHWGW01	187112-006	Water	Magnesium, dissolved	75000	BHWGW01CL	D0600543-004	88300	-16%
BHWGW01	187112-006	Water	Nickel, dissolved	ND< 20	BHWGW01CL	D0600543-004	3.5	NC
BHWGW01	187112-006	Water	Sodium, dissolved	230000	BHWGW01CL	D0600543-004	241000	-4.7%
BHWGW01	187112-006	Water	All other Metals	ND	BHWGW01CL	D0600543-004	ND	NA
BHWGW01	187112-006	Water	Alkalinity	520	BHWGW01CL	D0600543-004	512	1.6%
BHWGW01	187112-006	Water	Chloride	200	BHWGW01CL	D0600543-004	220	-10%
BHWGW01	187112-006	Water	Fluoride	ND	BHWGW01CL	D0600543-004	ND	NA
BHWGW01	187112-006	Water	Nitrate-nitrogen	5.6	BHWGW01CL	D0600543-004	6.49	-15%

Table 4
Summary of QC Split Duplicates
Second Quarter 2006 Groundwater Sampling Event
The Presidio of San Francisco, CA

Original Sample ID	Laboratory ID	Matrix	Compound	Original Results*	QC Split Sample ID	Laboratory ID	Duplicate Results*	RPD
BHWGW01	187112-006	Water	Nitrite-nitrogen	ND	BHWGW01CL	D0600543-004	ND	NA
BHWGW01	187112-006	Water	Sulfate	67	BHWGW01CL	D0600543-004	68	-1.5%

*Units for oganic and metals analyses are ug/L; units for general chemistry analyses are mg/L.
RL: Reporting limit
VOCs: Volatile Organic Compounds
PCBs: Polychlorinated Biphenyls
PAHs: Polynuclear Aromatic Hydrocarbons
ND: Not detected
NC: Not calculated. The absolute difference between the sample result and the duplicate sample result is less than the reporting limit.
N/A: Not analyzed
NA: Not applicable. Calculation of the relative percent difference between the sample result and the duplicate sample result is not applicable.

APPENDIX E
Curtis & Tompkins Analytical Data Reports

Table E-1
Curtis and Tompkins
Sample Delivery Group Index List
First Quarter 2006
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

Location ID	Sample Date	SDG Number
Building 900s Area		
937GW06	3/14/2006	185558
937GW07	3/14/2006	185558
937GW101	3/13/2006	185511
937GW102	3/13/2006	185511
937GW103	3/13/2006	185511
937GW104	3/13/2006	185511
937GW105	3/13/2006	185511
937GW106	3/13/2006	185511
937GW107	3/14/2006	185558
937GW108	3/13/2006	185511
937GW12	3/13/2006	185511
937GW15	3/15/2006	185586
937GW32R	3/14/2006	185558
937GW35	3/13/2006	185511
937GW37	3/13/2006	185511
937GW38	3/13/2006	185511
937GW39	3/13/2006	185511
937GW42	3/14/2006	185558
950GW108	3/9/2006	185457
950GW108 (DUP0309062A)	3/9/2006	185457
979GW109	3/14/2006	185558
979GW110	3/14/2006	185558
979GW111R	3/13/2006	185511
979GW112	3/14/2006	185558
979GW113	3/14/2006	185558
979GW115	3/13/2006	185511
979GW116	3/14/2006	185558
979GW116 (DUP0314061A)	3/14/2006	185558
979GW117	3/13/2006	185511
Battery Howe/Wagner		
BHWGW01	3/16/2006	185622
BHWGW04	3/15/2006	185586
BHWGW05	3/16/2006	185622
HWGW100	3/15/2006	185586
HWGW101	3/15/2006	185586

Table E-1
Curtis and Tompkins
Sample Delivery Group Index List
First Quarter 2006
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

Location ID	Sample Date	SDG Number
Commissary/PX		
600GW101	3/8/2006	185408
600GW102	3/15/2006	185586
600GW103	3/15/2006	185586
600GW104	3/15/2006	185586
600GW105	3/8/2006	185408
600GW106	3/8/2006	185408
600GW107	3/20/2006	185679
600GW108	3/7/2006	185381
600GW108 (DUP0307061B)	3/7/2006	185381
600GW109	3/14/2006	185558
610GW101	3/7/2006	185381
610GW101 (DUP0307061A)	3/7/2006	185381
610GW102	3/7/2006	185381
610GW103	3/7/2006	185381
610SP01	3/21/2006	185679
610SP02	3/21/2006	185679
Fill Site 1, Landfill 2 and El Polin Spring		
EPSP01	3/16/2006	185622
LF01GW01	3/8/2006	185408
LF01GW01 (DUP0308063C)	3/8/2006	185408
LF01GW02	3/16/2006	185622
LF01GW03	3/20/2006	185679
LF01GW04	3/20/2006	185679
LF01GW05	3/20/2006	185679
LF01GW06	3/20/2006	185679
LF01GW07	3/20/2006	185679
LF02GW01	3/16/2006	185622
LF02GW02	3/20/2006	185679
LF02GW04	3/20/2006	185679
Landfill E		
DAESP03	3/8/2006	185408
DAESP03 (DUP0308063A)	3/8/2006	185408
DAESP03	3/24/2006	185778
DAEGW03	3/14/2006	185558
DAEGW04	3/14/2006	185558
DAEGW05	3/14/2006	185558
DAEGW06	3/16/2006	185622
DAEGW07	3/15/2006	185586
DAEGW08	3/14/2006	185558
DAEGW101	3/16/2006	185622
DAEGW102	3/16/2006	185622

Table E-1
Curtis and Tompkins
Sample Delivery Group Index List
First Quarter 2006
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

Location ID	Sample Date	SDG Number
Landfill E (cont)		
DAEGW103	3/14/2006	185558
DAEGW104	3/16/2006	185622
Building 1047		
1047MW101	3/7/2006	185381
1047MW101 (DUP0307062A)	3/7/2006	185381
Building 1349/Fill Site 5		
1349MW01	3/16/2006	185622
1349MW02	3/10/2006	185457
1349MW03R	3/16/2006	185622
1349MW100	3/16/2006	185622
1349MW101	3/16/2006	185622
1349MW102	3/7/2006	185381
1349MW102 (DUP0307063C)	3/7/2006	185381
1349MW103	3/9/2006	185457
1349MW104	3/9/2006	185457
1349MW105	3/20/2006	185679
Fill Site 5		
LF5GW100	3/9/2006	185457
LF5GW101	3/9/2006	185457
LF5GW102	3/9/2006	185457
LF5GW103	3/9/2006	185457
LF5GW104	3/7/2006	185381
LF5SP100	3/21/2006	185679
Building 231/207 Area		
207GW03	3/16/2006	185622
231GW06	3/15/2006	185586
231GW09	3/15/2006	185586
231GW10	3/9/2006	185457
231GW11	3/15/2006	185586
231GW13	3/14/2006	185558
Building 231/207 Area (cont)		
231GW15	3/14/2006	185558
231GW16	3/9/2006	185457
231GW17	3/15/2006	185586
231GW18	3/15/2006	185586
231GW19	3/16/2006	185622
231GW20	3/15/2006	185586
231GW21	3/8/2006	185408
231GW21 (DUP0308061A)	3/8/2006	185408

Table E-1
Curtis and Tompkins
Sample Delivery Group Index List
First Quarter 2006
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

Location ID	Sample Date	SDG Number
231GW22	3/9/2006	185457
231GW22 (DUP0309061A)	3/9/2006	185457
231GW23	3/15/2006	185586
231GW24	3/16/2006	185622
231GW25	3/15/2006	185586
231GW26	3/16/2006	185622
231GW27	3/15/2006	185586
231GW28	3/15/2006	185586
231GW29	3/16/2006	185622
231GW30	3/9/2006	185457
231PZ01	3/14/2006	185558
231PZ02	3/9/2006	185457
231PZ03	3/14/2006	185558
231PZ04	3/14/2006	185558
Building 1065 Area		
1065MW10A	3/16/2006	185622
1065MW10B	3/9/2006	185457
1065MW11A	3/9/2006	185457
1065MW11B	3/7/2006	185381
1065MW9A	3/9/2006	185457
1065MW9A (DUP0309062B)	3/9/2006	185457
1065MW9B	3/9/2006	185457
1065PZ1A	3/14/2006	185558
1065PZ1B	3/7/2006	185381
1065PZ2A	3/13/2006	185511
1065PZ2B	3/7/2006	185381
1065PZ3A	3/13/2006	185511
1065PZ3B	3/9/2006	185457
1065PZ4A	3/9/2006	185457
1065PZ4B	3/13/2006	185511
1065PZ5AR	3/7/2006	185381
1065PZ5AR (DUP0307062B)	3/7/2006	185381
1065PZ5B	3/13/2006	185511
1065PZ6B	3/10/2006	185457
1065PZ7A	3/15/2006	185586
1065PZ7B	3/15/2006	185586
1065MW101	3/13/2006	185511
1065MW102	3/14/2006	185558

Table E-1
Curtis and Tompkins
Sample Delivery Group Index List
First Quarter 2006
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

Location ID	Sample Date	SDG Number
Landfill 4		
LF4GW03		178396
LF4GW101	3/7/2006	185381
LF4GW103	3/7/2006	185381
LF4GW103 (DUP0307063B)	3/7/2006	185381
LF4GW104	3/7/2006	185381
Landfill 8		
LF08GW01	3/16/2006	185622
LF08GW02B	3/16/2006	185622
LF08GW03	3/16/2006	185622
LF08GW04	3/16/2006	185622
LF08GW04 (DUP0316064A)	3/16/2006	185622
LF08GW06	3/16/2006	185622
Landfill 10		
LF10GW01	3/20/2006	185679
LF10GW02		178352
LF10GW03	3/16/2006	185622
LF10SP01		178352
Fill Site 6		
LF6GW100	3/16/2006	185622
LF6GW101	3/16/2006	185622
LF6GW103	3/16/2006	185622
LF6GW104	3/16/2006	185622
LF6GW105	3/20/2006	185679
LF6GW106	3/20/2006	185679
Nike Facility		
NKGW01	3/20/2006	185679
NKGW02	3/20/2006	185679
NKGW03	3/10/2006	185463
NKGW04	3/20/2006	185679
NKGW04 (DUP0320061A)	3/20/2006	185679
NKGW05	3/20/2006	185679
Baker Beach Disturbed Area 3		
BB3GW100	3/16/2006	185622
BB3PZ101	3/16/2006	185622
BB3PZ102	3/15/2006	185586
BB3SW100	3/15/2006	185586
BB3SW101	3/15/2006	185586
BB3SW102	3/15/2006	185586
BB3SW104	3/8/2006	185408
BB3SW104 (DUP0308063B)	3/8/2006	185408

Table E-1
Curtis and Tompkins
Sample Delivery Group Index List
First Quarter 2006
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

Location ID	Sample Date	SDG Number
Mini-CAPs		
1213GW101	3/17/2006	185638
1213GW101 (DUP0317062A)	3/17/2006	185638
1221GW101	3/17/2006	185638
1221GW102	3/17/2006	185638
1221GW103	3/10/2006	185463
1221GW104	3/10/2006	185463
1221GW104	3/24/2006	185778
1260GW101	3/10/2006	185463
1260GW101	3/24/2006	185778
1260GW102	3/9/2006	185457
1260GW102 (DUP0309063A)	3/9/2006	185457
1260GW103	3/10/2006	185463
1260GW103	3/24/2006	185778
514AGW101	3/17/2006	185638
FM14EX07GW101	3/17/2006	185638
FM14EX07GW102	3/17/2006	185638
Rinsate Samples		
937GW102RB101	3/13/2006	185511
937GW105RB106	3/13/2006	185511
979GW112RB116	3/14/2006	185558
HWGW101RB04	3/15/2006	185586
LF08GW02BRB03	3/16/2006	185622
LF08GW06RB01	3/16/2006	185622
Trip Blanks		
TB0307061B	3/7/2006	185381
TB0309061A	3/9/2006	185457
TB0313063A	3/13/2006	185511
TB0314061A	3/14/2006	185558
TB0315063A	3/15/2006	185586
TB0316063A	3/16/2006	185622
TB0317061A	3/16/2006	185622
TB0320063A	3/20/2006	185679
TB0321063A	3/21/2006	185679
Source Water Samples		
DW031306A	3/13/2006	185511
DW031306B	3/13/2006	185511
Purge Water Sample		
WT032906	3/29/2006	185866

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 185381

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.04.51
Location: Presidio

Sample ID	Lab ID
1047MW101	185381-001
DUP0307062A	185381-002
1065PZ1B	185381-003
1065PZ2B	185381-004
1065PZ5AR	185381-005
DUP0307062B	185381-006
1065MW11B	185381-007
LF4GW103	185381-008
DUP0307063A	185381-009
LF4GW104	185381-010
LF5GW104	185381-011
DUP0307063B	185381-012
1349MW102	185381-013
DUP0307063C	185381-014
610GW101	185381-015
610GW102	185381-016
610GW103	185381-017
DUP0307061A	185381-018
600GW108	185381-019
DUP0307061B	185381-020
TB0307061B	185381-021

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 4/3/06
Operations Manager

Signature: _____ Date: 3/31/06
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**185381**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**03/08/06**
Samples Received:	**03/08/06**

This hardcopy data package contains sample and QC results for twenty one water samples, requested for the above referenced project on 03/08/06. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):
High surrogate recoveries were observed for bromofluorobenzene (FID) and bromofluorobenzene (PID) in 1065MW11B (lab # 185381-007); the corresponding trifluorotoluene (FID) surrogate recovery was within limits. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
High response was observed for diesel C12-C24 in the CCV analyzed 03/18/06 14:01; this analyte was not detected at or above the RL in the associated samples. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

Pesticides (EPA 8081A):
High response was observed for methoxychlor in the ICV analyzed 03/03/06 19:07; average ICV drift met method requirements, and this analyte was not detected at or above the RL in the associated samples. Low response was observed for 4,4'-DDT in the CCV analyzed 03/13/06 12:02; average CCV drift met method requirements. No other analytical problems were encountered.

Polychlorinated Biphenyls (PCBs) (EPA 8082):
No analytical problems were encountered.

Polynuclear Aromatics by HPLC (EPA 8310):
No analytical problems were encountered.

Metals (EPA 6020):
High response was observed for aluminum in the CCV analyzed 03/22/06 20:26; this analyte was not detected at or above the RL in the associated samples. High recovery was observed for aluminum in the MSD of 1047MW101 (lab # 185381-001); the BS/BSD were within limits, the associated RPD was within limits, and this analyte was not detected at or above the RL in the associated samples. Responses exceeding the instrument's linear range were observed for a number of analytes in the MS/MSD of 231GW10 (lab # 185457-009). High % difference was observed for calcium in the serial dilution of 231GW10 (lab # 185457-009). No other analytical problems were

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**185381**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**03/08/06**
Samples Received:	**03/08/06**

Metals (EPA 6020):
encountered.

Ion Chromatography (EPA 300.0):
No analytical problems were encountered.

Alkalinity (EPA 310.1):
No analytical problems were encountered.

Sulfide (EPA 376.2):
No analytical problems were encountered.

Total Dissolved Solids (TDS) (EPA 160.1):
No analytical problems were encountered.

Total Organic Carbon (TOC) (EPA 415.2):
No analytical problems were encountered.

Chain of Custody

185381

Treadwell&Rollo

Environmental and Geotechnical Consultants

555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. 0P 2097
Page: ___ of ___

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTS / Mike Toll
Recorder (signature required): [signature]
Sent to Laboratory (Name): Curtis Thompkins

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) MTBE	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other) (15)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	+ Total Sulfide	TPH-SS	TOC	BTEX/MTBE			COMMENTS / NOTES
-1	1047MW101	3/7/06	1115			X		8		1		2	X			X	X		X		X		+	X					
-2	DUP030706 02A		1100			X		9		1		2	X			X	X		X		X		X	X					
-3	1065 PZ1B		1245			X		6		1		3	X	X	X	X	X		X		X		X						
-4	1065 PZ2B		1335			X		8		1		3	X	X	X	X	X		X		X		X			X			
-5	1065 PZ5AR		1400			X		3	3	1		3	X	X	X		X		X		X		X		X	X			
-6	DUP030706 2B		1345			X		3	3	1		3	X	X	X		X		X		X		X		X	X			
-7	1065 PZ11B		1600			X		3		1		3	X	X	X		X		X		X		X			X			

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (15 As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) Al, Sb) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) **(Other -**)

RELINQUISHED BY: [signature]	DATE: 3/8/06	RECEIVED BY: [signature]	DATE: 3/8/6
PRINT NAME:	FIRM: TIME: 1200	PRINT NAME: Aaron Greiner	FIRM: Curtis Tompkins TIME: 1200
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME:	FIRM: TIME:	PRINT NAME:	FIRM: TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

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Treadwell&Rollo
Environmental and Geotechnical Consultants
555 Montgomery St., Suite 1300, San Francisco, CA 94111
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185381

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2104
Page: ___ of ___

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): Joshua DeJong
Recorder (signature required): [signature]
Sent to Laboratory (Name): CHT

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) MTBE	General Chemistry [2]	OCPs (8081)	Metals - Dissolved (23, 22, 13, 9, 8, 7, 3, Other) (14)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	PCBs	Diss Metals (8)					COMMENTS / NOTES
-8	LF4GW103	3/7/06	1040			X				1		3					X		X		X		X						
-9	DUP030706 3A		1045			X				1		3					X		X		X		X						
-10	LF4GW104		1220			X				1		3					X		X		X		X						
-11	LF5GW104		1345			X		6		1		6	X	X	X	X	X	X			X	X		X					
-12	DUP030706 3B		1350			X		6		1		6	X	X	X	X	X	X			X	X		X					
-13	1349MW102		1545			X		6		1		6	X	X	X	X	X	X			X	X	X	X					
-14	DUP030706 3C		1550			X		6		1		6	X	X	X	X	X	X			X	X	X	X					

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (Other -)

RELINQUISHED BY: [signature]	DATE: 3/8/06	RECEIVED BY: [signature]	DATE: 3/8/6
PRINT NAME: FIRM:	TIME: 1200	PRINT NAME: AARON GRENIER FIRM: Curtis Tompkins	TIME: 1200
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

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Environmental and Geotechnical Consultants
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185381

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2105
Page: ____ of ____

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTS / SOOCH
Recorder (signature required): SUCHEON SUNG
Sent to Laboratory (Name): CH

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) MTBE	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other) 14	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	TPC	BTEX/MTBE	DTW Sulfide				COMMENTS / NOTES
-15	610GW101	3/7/06	1023			X		3	3	1		3	X	X	X		X		X		X		X	X	X				
-16	610GW102	↓	1410			X		3	3	1		3	X	X	X		X		X		X		X	X	X				
-17	610GW103		1445			X		3	3	1		3	X	X	X		X		X		X		X	X	X				
-18	DUP030706 1A		1500			X		3	3	1		3	X	X	X		X		X		X		X	X	X				
-19	600GW108		1615			X		6	3	1		5	X	X	X	X	X		X		X	X	X		X				
-20	DUP030706 1B		1630			X		6	3	1		5	X	X	X	X	X		X		X	X	X		X				
-21	TB030706 1B		—													X													

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (Other -)

RELINQUISHED BY:	DATE: 3/8/06	RECEIVED BY:	DATE: 3/8/06
PRINT NAME: FIRM:	TIME: 1200	PRINT NAME: AARON GREUIER FIRM: CURTIS TANKINS	TIME: 1200
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

White Copy - Original **Yellow Copy** - Laboratory **Pink Copy** - Field

Steven Stanley

From: "Joshua Graber" <jdgraber@treadwellrollo.com>
To: "Steve Stanley" <steve@ctberk.com>
Cc: "Greg Johnson" <gejohnson@treadwellrollo.com>; "Gil Shenker" <gshenker@treadwellrollo.com>; "Carole Nuttall" <cnuttall@treadwellrollo.com>; <dataval@msn.com>; <bjones@blainetech.com>
Sent: Tuesday, March 21, 2006 2:52 PM
Subject: RE: 2893.04.51 - C&T Login Summary (185381)

Steve,

Please change the sample ID for 1065PZ11B to 1065MW11B.

Thanks!

Joshua D. Graber
Senior Project Manager / Scientist
Treadwell & Rollo, Inc.

****
This information is intended solely for use by the individual or entity named as the recipient hereof and may be an attorney work product that is privileged and confidential or it may contain confidential company information. If you are not the intended recipient, be aware that any disclosure, copying, distribution, or use of the contents of this transmission is prohibited. If you have received this communication in error, please notify us immediately by return e-mail or by e-mail to info@treadwellrollo.com, and destroy this communication and all copies thereof, including attachments.
****

From: Steve Stanley [mailto:steve@ctberk.com]
Sent: Thursday, March 09, 2006 9:35 AM
To: Joshua Graber
Cc: Greg Johnson; Gil Shenker; Carole Nuttall; dataval@msn.com; bjones@blainetech.com
Subject: 2893.04.51 - C&T Login Summary (185381)

C&T Login Summary for 185381

Project:

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 185381 Date Received: 3-8-06 Number of Coolers: 5
Client: Treadwell + Rolle Project: Presidio

A. Preliminary Examination Phase
Date Opened: 3-8-06 By (print): Troy Windsor (sign) Troy Windsor

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES (NO)
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... (YES) NO
   How many and where? 1 per over cooler lip Seal date: 3/8/06 Seal name: Illegible
3. Were custody seals unbroken and intact at the date and time of arrival? ..... (YES) NO
4. Were custody papers dry and intact when received? ..... (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO
6. Did you sign the custody papers in the appropriate place? ..... (YES) NO
7. Was project identifiable from custody papers? ..... (YES) NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... (YES) NO
   Type of ice: Wet Temperature: 3.1 2.4 2.1 Cold (no temp blank) 3.6

B. Login Phase
Date Logged In: 3-8-06 By (print): Troy Windsor (sign) Troy Windsor

1. Describe type of packing in cooler: In ziplock type bags
2. Did all bottles arrive unbroken? ..... (YES) NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES (NO)
4. Did bottle labels agree with custody papers? ..... (YES) NO
5. Were appropriate containers used for the tests indicated? ..... (YES) NO
6. Were correct preservatives added to samples? ..... (YES) NO
7. Was sufficient amount of sample sent for tests indicated? ..... (YES) NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... (YES) NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:
B3- Sample -019 one vaa without a label (logged in as that sample because it was in a bag with five other vaas all of which were labeled.

TOTAL VOLATILE HYDROCARBONS/

BTXE

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1047MW101	Batch#:	111079
Lab ID:	185381-001	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Analyzed:	03/08/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	51 Y Z	50
Stoddard Solvent C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	98	65-135
Bromofluorobenzene (FID)	115	65-135

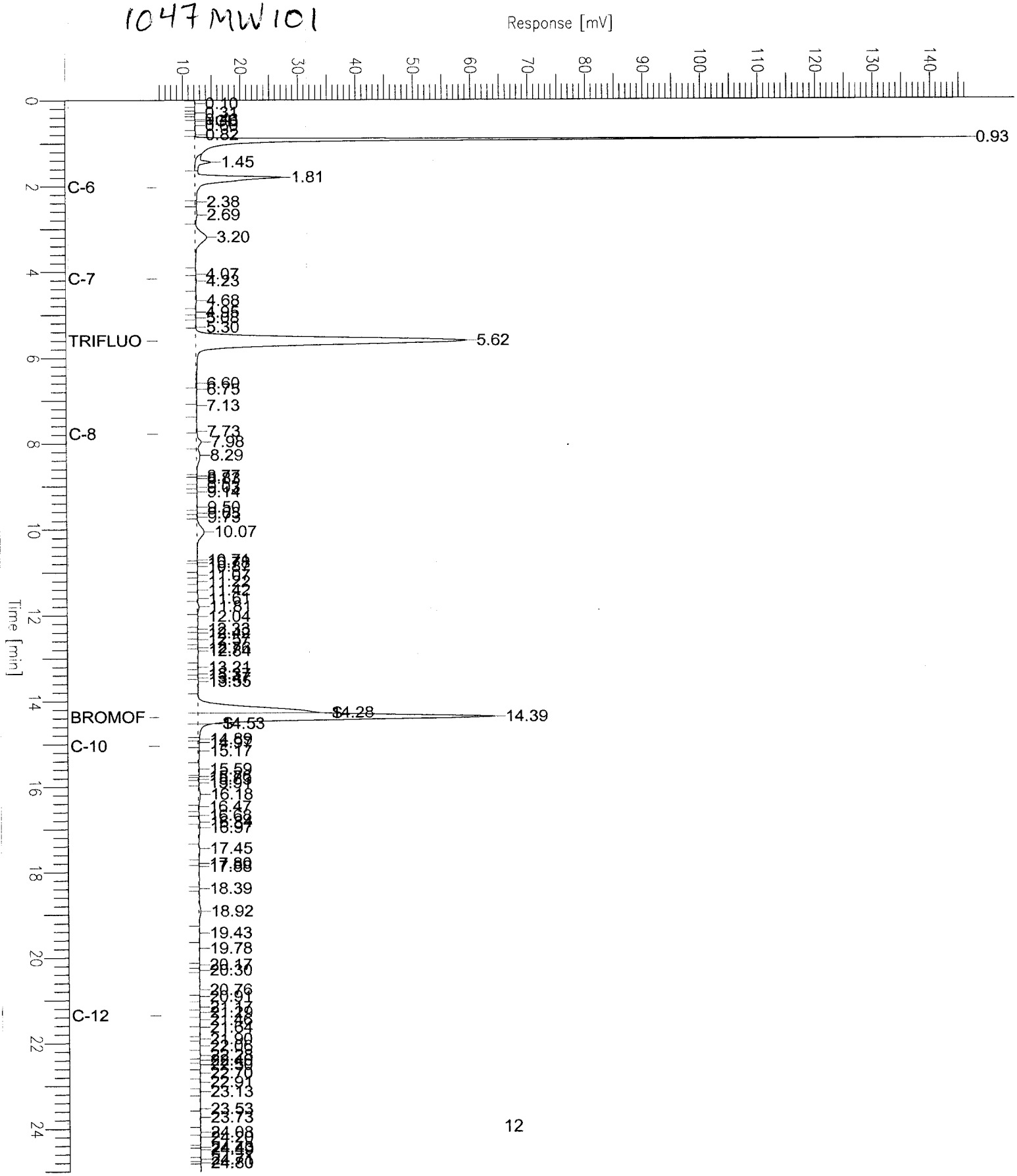
Y= Sample exhibits chromatographic pattern which does not resemble standard
Z= Sample exhibits unknown single peak or peaks
ND= Not Detected
RL= Reporting Limit

Chromatogram

Sample Name : 185381-001,111079,tvh
FileName : G:\GC05\DATA\067G007.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 25.00 min
Scale Factor: 1.0 Plot Offset: 5 mV

Sample #: b1.3
Date : 3/9/06 10:29 AM
Time of Injection: 3/8/06 07:00 PM
Low Point : 5.39 mV High Point : 146.31 mV
Plot Scale: 140.9 mV

1047 MW 101



Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	DUP0307062A	Batch#:	111079
Lab ID:	185381-002	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Analyzed:	03/08/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
Stoddard Solvent C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	65-135
Bromofluorobenzene (FID)	100	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1065PZ1B	Batch#:	111079
Lab ID:	185381-003	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Analyzed:	03/08/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	65-135
Bromofluorobenzene (FID)	100	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1065PZ2B	Batch#:	111079
Lab ID:	185381-004	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Analyzed:	03/08/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	103	65-135	EPA 8015B
Bromofluorobenzene (FID)	99	65-135	EPA 8015B
Trifluorotoluene (PID)	88	65-135	EPA 8021B
Bromofluorobenzene (PID)	88	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1065PZ5AR	Batch#:	111079
Lab ID:	185381-005	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Analyzed:	03/08/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	0.54 C	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	102	65-135	EPA 8015B
Bromofluorobenzene (FID)	98	65-135	EPA 8015B
Trifluorotoluene (PID)	87	65-135	EPA 8021B
Bromofluorobenzene (PID)	86	65-135	EPA 8021B

C= Presence confirmed, but RPD between columns exceeds 40%
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	DUP0307062B	Batch#:	111079
Lab ID:	185381-006	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	101	65-135	EPA 8015B
Bromofluorobenzene (FID)	98	65-135	EPA 8015B
Trifluorotoluene (PID)	82	65-135	EPA 8021B
Bromofluorobenzene (PID)	81	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1065MW11B	Batch#:	111079
Lab ID:	185381-007	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	190 Y Z	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	102	65-135	EPA 8015B
Bromofluorobenzene (FID)	163 *	65-135	EPA 8015B
Trifluorotoluene (PID)	80	65-135	EPA 8021B
Bromofluorobenzene (PID)	151 *	65-135	EPA 8021B

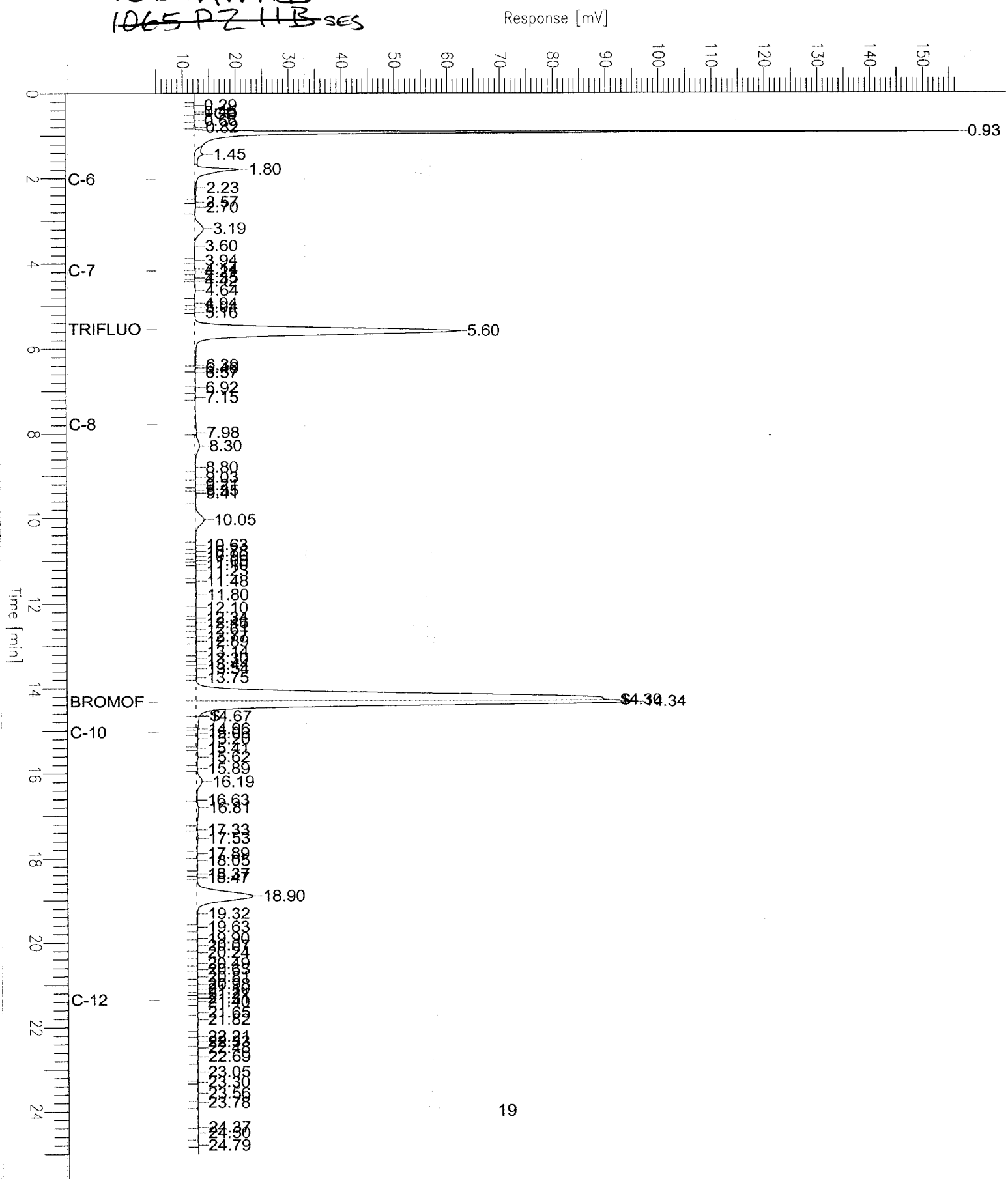
*= Value outside of QC limits; see narrative
Y= Sample exhibits chromatographic pattern which does not resemble standard
Z= Sample exhibits unknown single peak or peaks
ND= Not Detected
RL= Reporting Limit

Chromatogram

Sample Name : 185381-007,111079,mbtxe+tvh
FileName : G:\GC05\DATA\067G019.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 25.00 min
Scale Factor: 1.0 Plot Offset: 5 mV

Sample #: a1.6 Page 1 of 1
Date : 3/9/06 10:29 AM
Time of Injection: 3/9/06 01:19 AM
Low Point : 4.94 mV High Point : 156.68 mV
Plot Scale: 151.7 mV

1065MW11B
~~1065 PZ 11B~~ SES



Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	LF5GW104	Batch#:	111079
Lab ID:	185381-011	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	101	65-135
Bromofluorobenzene (FID)	100	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	DUP0307063B	Batch#:	111079
Lab ID:	185381-012	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	101	65-135
Bromofluorobenzene (FID)	98	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1349MW102	Batch#:	111079
Lab ID:	185381-013	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	65-135
Bromofluorobenzene (FID)	98	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	DUP0307063C	Batch#:	111079
Lab ID:	185381-014	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	100	65-135
Bromofluorobenzene (FID)	103	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	610GW101	Batch#:	111079
Lab ID:	185381-015	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	100	65-135	EPA 8015B
Bromofluorobenzene (FID)	98	65-135	EPA 8015B
Trifluorotoluene (PID)	81	65-135	EPA 8021B
Bromofluorobenzene (PID)	85	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	610GW102	Batch#:	111079
Lab ID:	185381-016	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	103	65-135	EPA 8015B
Bromofluorobenzene (FID)	106	65-135	EPA 8015B
Trifluorotoluene (PID)	83	65-135	EPA 8021B
Bromofluorobenzene (PID)	88	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	610GW103	Batch#:	111079
Lab ID:	185381-017	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	101	65-135	EPA 8015B
Bromofluorobenzene (FID)	103	65-135	EPA 8015B
Trifluorotoluene (PID)	83	65-135	EPA 8021B
Bromofluorobenzene (PID)	90	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	DUP0307061A	Batch#:	111079
Lab ID:	185381-018	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	102	65-135	EPA 8015B
Bromofluorobenzene (FID)	105	65-135	EPA 8015B
Trifluorotoluene (PID)	84	65-135	EPA 8021B
Bromofluorobenzene (PID)	91	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	600GW108	Batch#:	111079
Lab ID:	185381-019	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	65-135
Bromofluorobenzene (FID)	103	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	DUP0307061B	Batch#:	111079
Lab ID:	185381-020	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	65-135
Bromofluorobenzene (FID)	106	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC330539	Batch#:	111079
Matrix:	Water	Analyzed:	03/08/06
Units:	ug/L		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
Stoddard Solvent C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	99	65-135	EPA 8015B
Bromofluorobenzene (FID)	92	65-135	EPA 8015B
Trifluorotoluene (PID)	84	65-135	EPA 8021B
Bromofluorobenzene (PID)	80	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

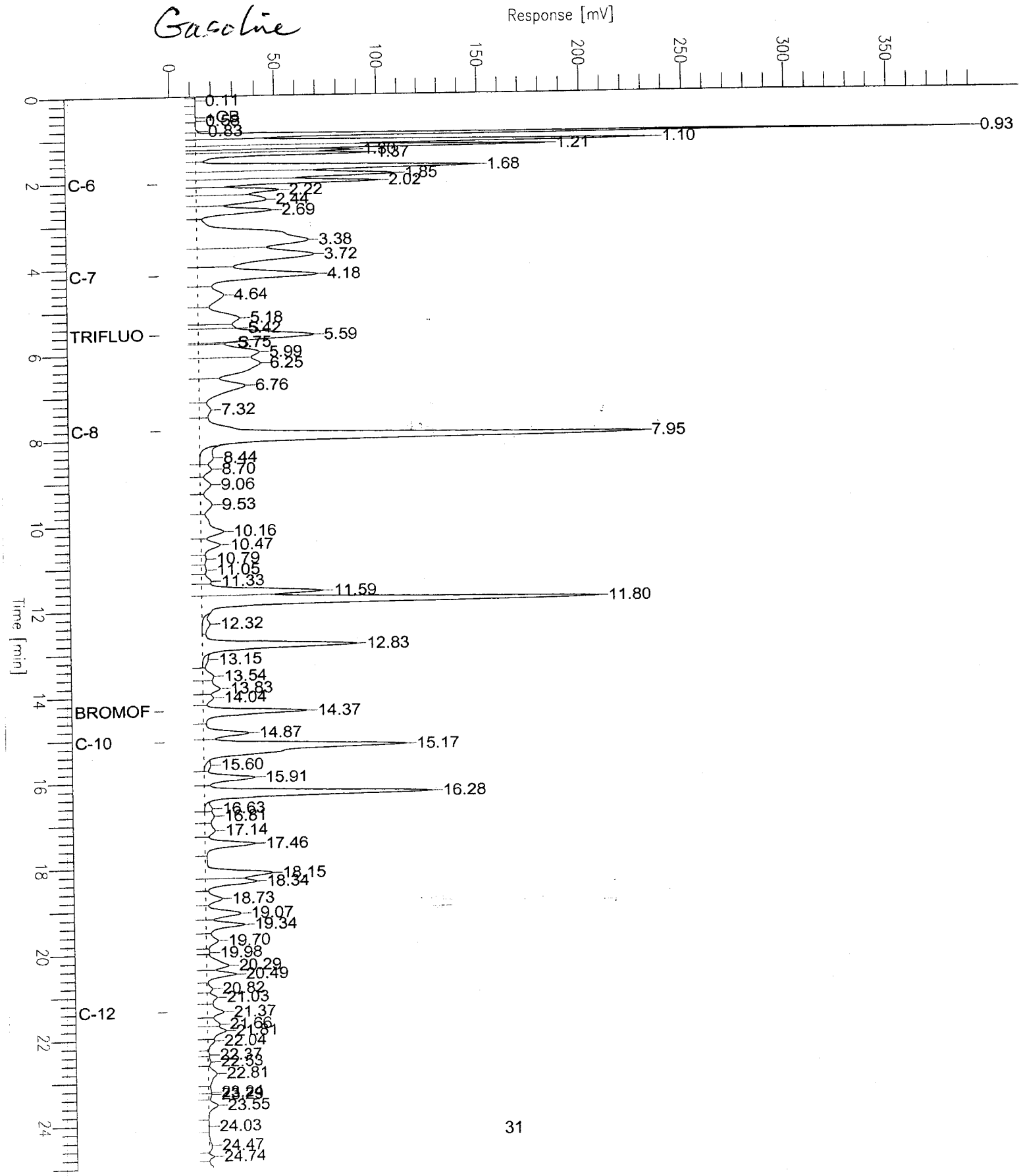
Chromatogram

Sample Name : ccv/lcs,qc330541,111079,s2730,5/5000
FileName : G:\GC05\DATA\067G003.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor: 1.0

End Time : 25.00 min
Plot Offset: -6 mV

Sample #:
Date : 3/9/06 10:29 AM
Time of Injection: 3/8/06 10:18 AM
Low Point : -6.31 mV
Plot Scale: 397.3 mV

High Point : 390.95 mV



Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8021B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC330540	Batch#:	111079
Matrix:	Water	Analyzed:	03/08/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
MTBE	20.00	18.01	90	65-135
Benzene	20.00	18.06	90	65-135
Toluene	20.00	19.11	96	65-135
Ethylbenzene	20.00	19.64	98	65-135

Surrogate	%REC	Limits
Trifluorotoluene (PID)	85	65-135
Bromofluorobenzene (PID)	85	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC330541	Batch#:	111079
Matrix:	Water	Analyzed:	03/08/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	1,969	98	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	128	65-135
Bromofluorobenzene (FID)	110	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1065PZ1B	Batch#:	111079
MSS Lab ID:	185381-003	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Type: MS Lab ID: QC330666

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	15.04	2,000	1,833	91	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	117	65-135
Bromofluorobenzene (FID)	110	65-135

Type: MSD Lab ID: QC330667

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,931	96	65-135	5	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	126	65-135
Bromofluorobenzene (FID)	115	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185381 GCVOA Water: EPA 8015B

Inst : GC05
Calnum : 315497353001

Name : tvh
Date : 11-DEC-2005 10:16

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	345_003	315497353003	tvh 1	11-DEC-2005 10:16	S1367 (1000X), S1895 (5000X)
L2	345_004	315497353004	tvh 2	11-DEC-2005 10:48	S1368 (1000X), S1895 (5000X)
L3	345_005	315497353005	tvh 3	11-DEC-2005 11:19	S1369 (1000X), S1895 (5000X)
L4	345_006	315497353006	tvh 4	11-DEC-2005 11:51	S1370 (2000X), S1895 (5000X)
L5	345_007	315497353007	tvh 5	11-DEC-2005 12:23	S1370 (1000X), S1895 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	G	1693.0	1307.5	1282.8	1171.1	1217.8	AVRG	R		7.49E-4		ng	1334.5	16	0.995	20	

35

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

315497353001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185381 GCVOA Water
EPA 8015B

Inst : GC05 Name : tvh
Calnum : 315497353001 Cal Date: 11-DEC-2005

ICV 315497353010 (345_010 11-DEC-2005) stds: S2241 (1000X), S1895 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	G	10000	9115	ng	-9	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185381 GCVOA Water: EPA 8015B

Inst : GC05
Calnum : 315421005001

Name : stoddard 1pt
Date : 19-OCT-2005 09:49

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	292_003	315421005003	stodd	19-OCT-2005 09:49	S736 (1000X), S1421 (5000X)

Analyte	Ch	L1	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Stoddard Solvent C7-C12	G	1843.8	AVRG	R		5.42E-4		ng	1843.8	0	0.995	20	

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185381 GCVOA Water: EPA 8021B

Inst : GC05
Calnum : 316062601001

Name : MBTXE
Date : 12-FEB-2006 14:34

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	043_005	316062601005	btxe 1	12-FEB-2006 14:34	S2368 (1000X), S2543 (5000X)
L2	043_006	316062601006	mtbe 1	12-FEB-2006 15:06	S2367 (1250X), S2543 (5000X)
L3	043_007	316062601007	mbtxe 2	12-FEB-2006 15:38	S2367 (500X), S2543 (5000X)
L4	043_008	316062601008	mbtxe 3	12-FEB-2006 16:10	S2367 (125X), S2543 (5000X)
L5	043_009	316062601009	mbtxe 4	12-FEB-2006 16:42	S2366 (1000X), S2543 (5000X)
L6	043_010	316062601010	mbtxe 5	12-FEB-2006 17:13	S2366 (500X), S2543 (5000X)
L7	043_011	316062601011	mbtxe 6	12-FEB-2006 17:45	S2366 (250X), S2543 (5000X)
L8	043_012	316062601012	mtbe 7	12-FEB-2006 18:17	S1492 (500X), S2543 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
MTBE	H		500.50	507.40	495.60	549.62	570.21	548.04	496.84	AVRG	R		0.00191		ng	524.03	6	0.995	20	
Benzene	H	1636.0		1390.9	1369.3	1430.7	1444.7	1442.5		AVRG	R		6.89E-4		ng	1452.4	7	0.995	20	
Toluene	H	1558.0		1351.6	1324.7	1322.4	1342.2	1335.2		AVRG	R		7.29E-4		ng	1372.3	7	0.995	20	
Ethylbenzene	H	1196.0		1171.3	1134.0	1149.3	1152.6	1141.2		AVRG	R		8.64E-4		ng	1157.4	2	0.995	20	
m,p-Xylenes	H	1636.0		1404.5	1425.6	1414.8	1407.6	1395.4		AVRG	R		6.91E-4		ng	1447.3	6	0.995	20	
o-Xylene	H	1328.0		1159.0	1154.6	1142.8	1149.6	1128.8		AVRG	R		8.50E-4		ng	1177.1	6	0.995	20	
MTBE	I		134.10	153.84	165.11	209.16	228.42	230.46	215.86	AVRG	R		0.00524		ng	190.99	20	0.995	20	
Benzene	I	424.80		443.80	505.67	580.08	602.82	619.99		AVRG	R		0.00189		ng	529.53	16	0.995	20	
Toluene	I	342.00		413.68	471.62	538.20	562.15	579.48		AVRG	R		0.00206		ng	484.52	19	0.995	20	
Ethylbenzene	I	315.26		373.81	422.87	485.20	502.89	521.53		AVRG	R		0.00229		ng	436.93	19	0.995	20	
m,p-Xylenes	I	463.32		427.11	496.13	565.88	587.17	611.29		AVRG	R		0.00190		ng	525.15	14	0.995	20	
o-Xylene	I	306.48		357.56	411.56	471.31	495.69	514.60		AVRG	R		0.00235		ng	426.20	19	0.995	20	

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185381 GCVOA Water
EPA 8021B

Inst : GC05 Name : MBTXE
Calnum : 316062601001 Cal Date: 12-FEB-2006

ICV 316062601015 (043_015 12-FEB-2006) stds: S2157 (1000X), S2543 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
MTBE	H	100.0	84.56	ng	-15	15	
Benzene	H	100.0	100.9	ng	1	15	
Toluene	H	100.0	101.7	ng	2	15	
Ethylbenzene	H	100.0	100.4	ng	0	15	
m,p-Xylenes	H	200.0	205.6	ng	3	15	
o-Xylene	H	100.0	101.2	ng	1	15	
MTBE	I	100.0	87.71	ng	-12	15	
Benzene	I	100.0	111.3	ng	11	15	
Toluene	I	100.0	108.2	ng	8	15	
Ethylbenzene	I	100.0	107.9	ng	8	15	
m,p-Xylenes	I	200.0	217.8	ng	9	15	
o-Xylene	I	100.0	103.0	ng	3	15	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185381 GCVOA Water: EPA 8015B / EPA 8021B

Inst : GC05 Name : TFT/BFB Reviewer: MCH
Calnum : 316013420001 Date : 09-JAN-2006 12:00 Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	009_006	316013420006	tft/bfb 1	09-JAN-2006 12:00	S1889 (5000X)
L2	009_007	316013420007	tft/bfb 2	09-JAN-2006 12:32	S1890 (5000X)
L3	009_008	316013420008	tft/bfb 3	09-JAN-2006 13:04	S1891 (5000X)
L4	009_009	316013420009	tft/bfb 4	09-JAN-2006 13:42	S1892 (5000X)
L5	009_010	316013420010	tft/bfb 5	09-JAN-2006 14:13	S1893 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	G	1339.7	1422.7	1133.8	1120.9	1121.5	AVRG	R		8.15E-4		ng	1227.7	12	0.995	20	
Bromofluorobenzene (FID)	G	858.52	958.51	732.70	751.93	754.50	AVRG	R		0.00123		ng	811.23	12	0.995	20	
Trifluorotoluene (PID)	H	455.13	504.69	437.53	455.86	452.98	AVRG	R		0.00217		ng	461.24	6	0.995	20	
Bromofluorobenzene (PID)	H	901.33	1032.5	919.64	956.84	945.96	AVRG	R		0.00105		ng	951.26	5	0.995	20	
Trifluorotoluene (PID)	I	138.14	152.07	139.19	147.34	149.65	AVRG	R		0.00688		ng	145.28	4	0.995	20	
Bromofluorobenzene (PID)	I	287.49	334.84	315.38	332.14	331.18	AVRG	R		0.00312		ng	320.20	6	0.995	20	

40

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

316013420001

CONTINUING CALIBRATION SUMMARY FOR 185381 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Gasoline C7-C12

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	G	316097035003	08-MAR-2006 10:18	315497353001	11-DEC-2005	1334.5	1313.6	10000	9843.7	ng	-2	15	
GC05	G	316097035016	08-MAR-2006 23:45	315497353001	11-DEC-2005	1334.5	1248.1	15000	14029	ng	-6	15	
GC05	G	316097035017	09-MAR-2006 00:16	315497353001	11-DEC-2005	1334.5	1232.2	15000	13851	ng	-8	15	
GC05	G	316097035030	09-MAR-2006 07:06	315497353001	11-DEC-2005	1334.5	1264.0	5000.0	4736.0	ng	-5	15	
GC05	G	316097035031	09-MAR-2006 07:37	315497353001	11-DEC-2005	1334.5	1277.4	5000.0	4786.1	ng	-4	15	
GC05	G	316097035037	09-MAR-2006 11:17	315497353001	11-DEC-2005	1334.5	1232.3	10000.0	9234.4	ng	-8	15	

CONTINUING CALIBRATION SUMMARY FOR 185381 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Stoddard Solvent C7-C12

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	G	316097035005	08-MAR-2006 15:59	315421005001	19-OCT-2005	1843.8	1845.5	10000.0	10010	ng	0	15	
GC05	G	316097035013	08-MAR-2006 22:10	315421005001	19-OCT-2005	1843.8	1990.5	10000.0	10796	ng	8	15	

CONTINUING CALIBRATION SUMMARY FOR 185381 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: MTBE

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316097035002	08-MAR-2006 09:46	316062601001	12-FEB-2006	524.03	471.90	100.00	90.052	ng	-10	15	
GC05	I	316097035002	08-MAR-2006 09:46	316062601001	12-FEB-2006	190.99	167.59	100.00	87.747	ng	-12	15	
GC05	H	316097035014	08-MAR-2006 22:42	316062601001	12-FEB-2006	524.03	552.69	150.00	158.20	ng	5	15	
GC05	I	316097035014	08-MAR-2006 22:42	316062601001	12-FEB-2006	190.99	194.57	150.00	152.81	ng	2	15	
GC05	H	316097035015	08-MAR-2006 23:13	316062601001	12-FEB-2006	524.03	537.53	150.00	153.87	ng	3	15	
GC05	I	316097035015	08-MAR-2006 23:13	316062601001	12-FEB-2006	190.99	191.40	150.00	150.32	ng	0	15	
GC05	H	316097035028	09-MAR-2006 06:03	316062601001	12-FEB-2006	524.03	572.20	50.000	54.596	ng	9	15	
GC05	I	316097035028	09-MAR-2006 06:03	316062601001	12-FEB-2006	190.99	178.62	50.000	46.761	ng	-6	15	

CONTINUING CALIBRATION SUMMARY FOR 185381 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Benzene

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316097035002	08-MAR-2006 09:46	316062601001	12-FEB-2006	1452.4	1311.8	100.00	90.322	ng	-10	15	
GC05	I	316097035002	08-MAR-2006 09:46	316062601001	12-FEB-2006	529.53	507.95	100.00	95.926	ng	-4	15	
GC05	H	316097035014	08-MAR-2006 22:42	316062601001	12-FEB-2006	1452.4	1391.6	150.00	143.73	ng	-4	15	
GC05	I	316097035014	08-MAR-2006 22:42	316062601001	12-FEB-2006	529.53	543.75	150.00	154.03	ng	3	15	
GC05	H	316097035015	08-MAR-2006 23:13	316062601001	12-FEB-2006	1452.4	1416.5	150.00	146.30	ng	-2	15	
GC05	I	316097035015	08-MAR-2006 23:13	316062601001	12-FEB-2006	529.53	546.79	150.00	154.89	ng	3	15	
GC05	H	316097035028	09-MAR-2006 06:03	316062601001	12-FEB-2006	1452.4	1417.8	50.000	48.810	ng	-2	15	
GC05	I	316097035028	09-MAR-2006 06:03	316062601001	12-FEB-2006	529.53	486.68	50.000	45.954	ng	-8	15	

CONTINUING CALIBRATION SUMMARY FOR 185381 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Toluene

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316097035002	08-MAR-2006 09:46	316062601001	12-FEB-2006	1372.3	1311.0	100.00	95.526	ng	-4	15	
GC05	I	316097035002	08-MAR-2006 09:46	316062601001	12-FEB-2006	484.52	469.11	100.00	96.819	ng	-3	15	
GC05	H	316097035014	08-MAR-2006 22:42	316062601001	12-FEB-2006	1372.3	1275.8	150.00	139.45	ng	-7	15	
GC05	I	316097035014	08-MAR-2006 22:42	316062601001	12-FEB-2006	484.52	485.43	150.00	150.28	ng	0	15	
GC05	H	316097035015	08-MAR-2006 23:13	316062601001	12-FEB-2006	1372.3	1335.1	150.00	145.93	ng	-3	15	
GC05	I	316097035015	08-MAR-2006 23:13	316062601001	12-FEB-2006	484.52	491.01	150.00	152.01	ng	1	15	
GC05	H	316097035028	09-MAR-2006 06:03	316062601001	12-FEB-2006	1372.3	1334.6	50.000	48.625	ng	-3	15	
GC05	I	316097035028	09-MAR-2006 06:03	316062601001	12-FEB-2006	484.52	437.58	50.000	45.156	ng	-10	15	

CONTINUING CALIBRATION SUMMARY FOR 185381 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Ethylbenzene

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316097035002	08-MAR-2006 09:46	316062601001	12-FEB-2006	1157.4	1136.7	100.00	98.212	ng	-2	15	
GC05	I	316097035002	08-MAR-2006 09:46	316062601001	12-FEB-2006	436.93	418.34	100.00	95.746	ng	-4	15	
GC05	H	316097035014	08-MAR-2006 22:42	316062601001	12-FEB-2006	1157.4	1128.1	150.00	146.21	ng	-3	15	
GC05	I	316097035014	08-MAR-2006 22:42	316062601001	12-FEB-2006	436.93	427.58	150.00	146.79	ng	-2	15	
GC05	H	316097035015	08-MAR-2006 23:13	316062601001	12-FEB-2006	1157.4	1098.9	150.00	142.42	ng	-5	15	
GC05	I	316097035015	08-MAR-2006 23:13	316062601001	12-FEB-2006	436.93	430.07	150.00	147.64	ng	-2	15	
GC05	H	316097035028	09-MAR-2006 06:03	316062601001	12-FEB-2006	1157.4	1098.8	50.000	47.469	ng	-5	15	
GC05	I	316097035028	09-MAR-2006 06:03	316062601001	12-FEB-2006	436.93	375.92	50.000	43.019	ng	-14	15	

CONTINUING CALIBRATION SUMMARY FOR 185381 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: m,p-Xylenes

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316097035002	08-MAR-2006 09:46	316062601001	12-FEB-2006	1447.3	1401.3	100.00	96.820	ng	-3	15	
GC05	I	316097035002	08-MAR-2006 09:46	316062601001	12-FEB-2006	525.15	493.57	100.00	93.985	ng	-6	15	
GC05	H	316097035014	08-MAR-2006 22:42	316062601001	12-FEB-2006	1447.3	1325.9	150.00	137.42	ng	-8	15	
GC05	I	316097035014	08-MAR-2006 22:42	316062601001	12-FEB-2006	525.15	495.12	150.00	141.42	ng	-6	15	
GC05	H	316097035015	08-MAR-2006 23:13	316062601001	12-FEB-2006	1447.3	1397.1	150.00	144.79	ng	-3	15	
GC05	I	316097035015	08-MAR-2006 23:13	316062601001	12-FEB-2006	525.15	501.83	150.00	143.34	ng	-4	15	
GC05	H	316097035028	09-MAR-2006 06:03	316062601001	12-FEB-2006	1447.3	1384.4	50.000	47.826	ng	-4	15	
GC05	I	316097035028	09-MAR-2006 06:03	316062601001	12-FEB-2006	525.15	446.96	50.000	42.555	ng	-15	15	

CONTINUING CALIBRATION SUMMARY FOR 185381 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: o-Xylene

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316097035002	08-MAR-2006 09:46	316062601001	12-FEB-2006	1177.1	1150.7	100.00	97.756	ng	-2	15	
GC05	I	316097035002	08-MAR-2006 09:46	316062601001	12-FEB-2006	426.20	407.13	100.00	95.524	ng	-4	15	
GC05	H	316097035014	08-MAR-2006 22:42	316062601001	12-FEB-2006	1177.1	1110.6	150.00	141.53	ng	-6	15	
GC05	I	316097035014	08-MAR-2006 22:42	316062601001	12-FEB-2006	426.20	412.09	150.00	145.03	ng	-3	15	
GC05	H	316097035015	08-MAR-2006 23:13	316062601001	12-FEB-2006	1177.1	1128.1	150.00	143.75	ng	-4	15	
GC05	I	316097035015	08-MAR-2006 23:13	316062601001	12-FEB-2006	426.20	416.03	150.00	146.42	ng	-2	15	
GC05	H	316097035028	09-MAR-2006 06:03	316062601001	12-FEB-2006	1177.1	1112.0	50.000	47.234	ng	-6	15	
GC05	I	316097035028	09-MAR-2006 06:03	316062601001	12-FEB-2006	426.20	374.02	50.000	43.879	ng	-12	15	

CONTINUING CALIBRATION SUMMARY FOR 185381 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Trifluorotoluene (FID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	G	316097035002	08-MAR-2006 09:46	316013420001	09-JAN-2006	1227.7	1249.4	450.00	457.96	ng	2	15	
GC05	G	316097035003	08-MAR-2006 10:18	316013420001	09-JAN-2006	1227.7	1567.9	450.00	574.69	ng	**28**	15	c+
GC05	G	316097035013	08-MAR-2006 22:10	316013420001	09-JAN-2006	1227.7	1230.0	450.00	450.84	ng	0	15	ok
GC05	G	316097035028	09-MAR-2006 06:03	316013420001	09-JAN-2006	1227.7	1245.0	450.00	456.34	ng	1	15	
GC05	G	316097035037	09-MAR-2006 11:17	316013420001	09-JAN-2006	1227.7	1450.9	450.00	531.80	ng	**18**	15	c+

IN-House QC Limits:

TFT-FID-S:

69-137 % Rec.

mm 3/28/06

+=high bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 185381 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Bromofluorobenzene (FID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	G	316097035002	08-MAR-2006 09:46	316013420001	09-JAN-2006	811.23	811.07	450.00	449.91	ng	0	15	
GC05	G	316097035003	08-MAR-2006 10:18	316013420001	09-JAN-2006	811.23	890.12	450.00	493.76	ng	10	15	
GC05	G	316097035013	08-MAR-2006 22:10	316013420001	09-JAN-2006	811.23	1192.8	450.00	661.67	ng	47	15	c+ Stoddard CCV
GC05	G	316097035028	09-MAR-2006 06:03	316013420001	09-JAN-2006	811.23	773.29	450.00	428.95	ng	-5	15	
GC05	G	316097035037	09-MAR-2006 11:17	316013420001	09-JAN-2006	811.23	868.50	450.00	481.77	ng	7	15	

mcs 3/20/06

+=high bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 185381 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Trifluorotoluene (PID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316097035002	08-MAR-2006 09:46	316013420001	09-JAN-2006	461.24	392.46	450.00	382.89	ng	-15	15	
GC05	I	316097035002	08-MAR-2006 09:46	316013420001	09-JAN-2006	145.28	141.38	450.00	437.92	ng	-3	15	
GC05	H	316097035013	08-MAR-2006 22:10	316013420001	09-JAN-2006	461.24	388.83	450.00	379.36	ng	**-16**	15	c-
GC05	I	316097035013	08-MAR-2006 22:10	316013420001	09-JAN-2006	145.28	142.13	450.00	440.24	ng	-2	15	
GC05	H	316097035028	09-MAR-2006 06:03	316013420001	09-JAN-2006	461.24	397.02	450.00	387.35	ng	-14	15	
GC05	I	316097035028	09-MAR-2006 06:03	316013420001	09-JAN-2006	145.28	138.22	450.00	428.12	ng	-5	15	

IN-House QC Limits

TFT-PID-W:
64-132 % Rec

mem 3/20/06

-=low bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 185381 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Bromofluorobenzene (PID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316097035002	08-MAR-2006 09:46	316013420001	09-JAN-2006	951.26	810.47	450.00	383.40	ng	-15	15	
GC05	I	316097035002	08-MAR-2006 09:46	316013420001	09-JAN-2006	320.20	311.57	450.00	437.86	ng	-3	15	
GC05	H	316097035013	08-MAR-2006 22:10	316013420001	09-JAN-2006	951.26	914.51	450.00	432.62	ng	-4	15	
GC05	I	316097035013	08-MAR-2006 22:10	316013420001	09-JAN-2006	320.20	466.34	450.00	655.37	ng	**46**	15	c+ Stoddard CCV
GC05	H	316097035028	09-MAR-2006 06:03	316013420001	09-JAN-2006	951.26	780.29	450.00	369.12	ng	**-18**	15	c-
GC05	I	316097035028	09-MAR-2006 06:03	316013420001	09-JAN-2006	320.20	301.23	450.00	423.33	ng	-6	15	

[illegible] 3/28/06

IN-HOUSE QC Limits

BFB - PID - W:

80-120 % Rec

+=high bias -=low bias c=CCV

PROJECT GC05 Sequence by BJK

Notebook No. BC0051

Continued From Page

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 11-DEC-2005

Sequence: 315497353 Instrument: GC05
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #5 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	345_001	X	ib			11-DEC-2005 09:13	1.0					1	
002	345_002	X	ib			11-DEC-2005 09:44	1.0					1	
003	345_003	ICAL	tvh 1			11-DEC-2005 10:16	1.0					2 1 pass	
004	345_004	ICAL	tvh 2			11-DEC-2005 10:48	1.0					3 1	
005	345_005	ICAL	tvh 3			11-DEC-2005 11:19	1.0					4 1	
006	345_006	ICAL	tvh 4			11-DEC-2005 11:51	1.0					5 1	
007	345_007	ICAL	tvh 5			11-DEC-2005 12:23	1.0					5 1	
008	345_008	X	ib			11-DEC-2005 12:55	1.0					1	
009	345_009	X	tvh			11-DEC-2005 13:26	1.0		5000			6 1 Not used	
010	345_010	ICV	tvh			11-DEC-2005 13:58	1.0		5000			7 1 pass	
011	345_011	X	ib			11-DEC-2005 14:30	1.0					1	
012	345_012	X	carbmark			11-DEC-2005 15:02	1.0					8 9 1	

Stds used: 1=S1895 2=S1367 3=S1368 4=S1369 5=S1370 6=S2152 7=S2241 8=S1645 9=S1646

Analyst: BJK Date: 12/13/05

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316013420 Instrument: GC05
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #5 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 09-JAN-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	YL (USED ID)	pH	Stds Used	>LR
001	009_001	X	ib			09-JAN-2006 07:40	1.0					1	
002	009_002	X	mbtxe		Water	09-JAN-2006 08:11	1.0					2 1 Not used	
003	009_003	X	gas		Water	09-JAN-2006 08:43	1.0					3 1	
004	009_004	X	ib			09-JAN-2006 09:14	1.0					1	
005	009_005	X	ib			09-JAN-2006 11:29	1.0					1	
006	009_006	ICAL	tft/bfb 1			09-JAN-2006 12:00	1.0					4 PASS/USE	
007	009_007	ICAL	tft/bfb 2			09-JAN-2006 12:32	1.0					5	
008	009_008	ICAL	tft/bfb 3			09-JAN-2006 13:04	1.0					6	
009	009_009	ICAL	tft/bfb 4			09-JAN-2006 13:42	1.0					7	
010	009_010	ICAL	tft/bfb 5			09-JAN-2006 14:13	1.0					8	
011	009_011	X	ib			09-JAN-2006 15:31	1.0					1	
012	009_012	CCV/LCS	QC323487	109331	Soil	09-JAN-2006 16:03	1.0		5000			2 1 PASS/USE	
013	009_013	CCV/LCS	QC323488	109331	Soil	09-JAN-2006 16:35	1.0	1	5000			3 1	
014	009_014	BLANK	QC323486	109331	Soil	09-JAN-2006 17:06	1.0	4	5000			1 ≤ 1/2 RL	
015	009_015	MSS	184210-025	109331	Soil	09-JAN-2006 18:44	1.0	1	5000	Amp		1	
016	009_016	MS	QC323558	109331	Soil	09-JAN-2006 19:15	1.0	2	5000			3 1 PASS/USE	
017	009_017	MSD	QC323559	109331	Soil	09-JAN-2006 19:47	1.0	2	5000			3 1	
018	009_018	SAMPLE	184210-019	109331	Soil	09-JAN-2006 20:18	1.0		5000			1	
019	009_019	SAMPLE	184210-020	109331	Soil	09-JAN-2006 20:50	1.0		5000			1	
020	009_020	SAMPLE	184210-021	109331	Soil	09-JAN-2006 21:22	1.0		5000			1	
021	009_021	SAMPLE	184210-022	109331	Soil	09-JAN-2006 21:53	1.0		5000			1	
022	009_022	CCV	btxe	109331		09-JAN-2006 22:25	1.0		5000			2 1 PASS/USE	
023	009_023	CCV	btxe	109331		09-JAN-2006 22:56	1.0		5000			2 1	
024	009_024	CCV	tvh	109331		09-JAN-2006 23:28	1.0		5000			3 1	
025	009_025	CCV	tvh	109331		09-JAN-2006 23:59	1.0		5000			3 1	
026	009_026	SAMPLE	184210-023	109331	Soil	10-JAN-2006 00:31	1.0		5000	Amp		1	
027	009_027	SAMPLE	184210-024	109331	Soil	10-JAN-2006 01:03	1.0	6	5000			1	
028	009_028	SAMPLE	184210-024	109331	Soil	10-JAN-2006 07:38	1.0		5000			1	
029	009_029	SAMPLE	184210-026	109331	Soil	10-JAN-2006 08:09	1.0	1 2	5000			1	1:BR4FBZ=1175.89
030	009_030	SAMPLE	184210-027	109331	Soil	10-JAN-2006 08:41	1.0		5000			1	

Stds used: 1=S1895 2=S2369 3=S2400 4=S1889 5=S1890 6=S1891 7=S1892 8=S1893

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Sent used in QC EM 128974-M104164

[signature] 1/10/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316013420 Instrument: GC05
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #5 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 09-JAN-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	YL (CODE ID)	pH	Stds Used	>LR
031	009_031	CCV	btxe	109331		10-JAN-2006 09:12	1.0		5000			2 1 PASS/USE	
032	009_032	CCV	tvh	109331		10-JAN-2006 09:44	1.0		5000			3 1	

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Stds used: 1=S1895 2=S2369 3=S2400 4=S1889 5=S1890 6=S1891 7=S1892 8=S1893

Analyst: [signature] Date: 01/10/06
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PROJECT GC05 Sequence Log Book

Notebook No. BL 2266

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316062601 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 12-FEB-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC SPK uL	VL	pH	Stds Used	>LR
001	043_001	X	ib			12-FEB-2006 11:21	1.0				1	
002	043_002	X	mbtxe check			12-FEB-2006 11:52	1.0				2 1 Not used	
003	043_003	X	ib			12-FEB-2006 12:24	1.0				1	
004	043_004	X	ib			12-FEB-2006 14:02	1.0				1	
005	043_005	ICAL	btxe 1			12-FEB-2006 14:34	1.0				3 1 Pass/use	
006	043_006	ICAL	mtbe 1			12-FEB-2006 15:06	1.0				4 1	
007	043_007	ICAL	mbtxe 2			12-FEB-2006 15:38	1.0				4 1	
008	043_008	ICAL	mbtxe 3			12-FEB-2006 16:10	1.0				4 1	
009	043_009	ICAL	mbtxe 4			12-FEB-2006 16:42	1.0				5 1	
010	043_010	ICAL	mbtxe 5			12-FEB-2006 17:13	1.0				5 1	
011	043_011	ICAL	mbtxe 6			12-FEB-2006 17:45	1.0				5 1	
012	043_012	ICAL	mtbe 7			12-FEB-2006 18:17	1.0				6 1	
013	043_013	X	ib			12-FEB-2006 18:49	1.0				1	
014	043_014	X	mbtxe			12-FEB-2006 19:21	1.0				7 1 Not used	
015	043_015	ICV	mbtxe			12-FEB-2006 19:53	1.0	5000			7 1 Pass/use	

Stds used: 1=S2543 2=S2650 3=S2368 4=S2367 5=S2366 6=S1492 7=S2157

Analyst: [signature] Date: 02/13/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316097035 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 08-MAR-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds	Used	>LR
001	067_001	X	ib			08-MAR-2006 09:15	1.0						1		
002	067_002	CCV/LCS	QC330540	111079	Water	08-MAR-2006 09:46	1.0			5000			2	1	PASS
003	067_003	CCV/LCS	QC330541	111079	Water	08-MAR-2006 10:18	1.0			5000			3	1	↓
004	067_004	X	ib	111079	Water	08-MAR-2006 10:49	1.0			5000			1		
005	067_005	CCV	stodd	111079		08-MAR-2006 15:59	1.0			5000			4	1	PASS
006	067_006	BLANK	QC330539	111079	Water	08-MAR-2006 16:30	1.0	1		5000			1		<1/2 RL
007	067_007	SAMPLE	185381-001	111079	Water	08-MAR-2006 19:00	1.0			5000	B	1.3	1		
008	067_008	SAMPLE	185381-002	111079	Water	08-MAR-2006 19:32	1.0			5000	A		1		
009	067_009	MSS	185381-003	111079	Water	08-MAR-2006 20:04	1.0	1		5000	B		1		
010	067_010	SAMPLE	185381-004	111079	Water	08-MAR-2006 20:35	1.0			5000	A	↓	1		
011	067_011	SAMPLE	185381-005	111079	Water	08-MAR-2006 21:07	1.0			5000	↓	1.6	1		
012	067_012	X	stodd	111079		08-MAR-2006 21:38	1.0	1		5000			4	1	NOT USED
013	067_013	CCV	stodd	111079		08-MAR-2006 22:10	1.0			5000			4	1	PASS
014	067_014	CCV	mbtxe	111079		08-MAR-2006 22:42	1.0			5000			2	1	
015	067_015	CCV	mbtxe	111079		08-MAR-2006 23:13	1.0			5000			2	1	
016	067_016	CCV	tvh	111079		08-MAR-2006 23:45	1.0			5000			3	1	
017	067_017	CCV	tvh	111079		09-MAR-2006 00:16	1.0			5000			3	1	↓
018	067_018	SAMPLE	185381-006	111079	Water	09-MAR-2006 00:48	1.0			5000	A	1.3	1		
019	067_019	SAMPLE	185381-007	111079	Water	09-MAR-2006 01:19	1.0		2	5000	↓	1.6	1		
020	067_020	SAMPLE	185381-011	111079	Water	09-MAR-2006 01:51	1.0			5000	B	1.3	1		
021	067_021	SAMPLE	185381-012	111079	Water	09-MAR-2006 02:22	1.0			5000			1		
022	067_022	SAMPLE	185381-013	111079	Water	09-MAR-2006 02:54	1.0			5000			1		
023	067_023	SAMPLE	185381-014	111079	Water	09-MAR-2006 03:25	1.0			5000	↓		1		
024	067_024	SAMPLE	185381-015	111079	Water	09-MAR-2006 03:57	1.0			5000	A		1		
025	067_025	SAMPLE	185381-016	111079	Water	09-MAR-2006 04:29	1.0			5000			1		
026	067_026	SAMPLE	185381-017	111079	Water	09-MAR-2006 05:00	1.0			5000			1		
027	067_027	SAMPLE	185381-018	111079	Water	09-MAR-2006 05:32	1.0			5000	↓		↓	1	
028	067_028	CCV	mbtxe	111079		09-MAR-2006 06:03	1.0			5000			2	1	PASS
029	067_029	CCV	mbtxe	111079		09-MAR-2006 06:34	1.0			5000			2	1	
030	067_030	CCV	tvh	111079		09-MAR-2006 07:06	1.0			5000			3	1	↓

Stds used: 1=S2543 2=S2650 3=S2730 4=S2169

Analyst: TJP Date: 3/09/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316097035 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 08-MAR-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds	Used	>LR
031	067_031	CCV	tvh	111079		09-MAR-2006 07:37	1.0			5000			3	1	PASS
032	067_032	SAMPLE	185381-019	111079	Water	09-MAR-2006 08:08	1.0	1		5000	C	1.3	1		
033	067_033	SAMPLE	185381-020	111079	Water	09-MAR-2006 08:39	1.0	1		5000	B		1		
034	067_034	MS	QC330666	111079	Water	09-MAR-2006 09:11	1.0			5000			3	1	PASS
035	067_035	X	QC330667	111079	Water	09-MAR-2006 09:42	1.0						3	1	NOT USED
036	067_036	MSD	QC330667	111079	Water	09-MAR-2006 10:46	1.0			5000	↓	↓	3	1	PASS
037	067_037	CCV	tvh	111079		09-MAR-2006 11:17	1.0			5000			3	1	↓

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Stds used: 1=S2543 2=S2650 3=S2730 4=S2169

Analyst: TJP Date: 3/09/06

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Dulce J. Perez 3/09/06 Signed Date

Signed 03/09/06 Date

REPORTING SUMMARY FOR 185381 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185381-001	Gasoline C7-C12	GC05	G	03/08/06 19:00
185381-001	Stoddard Solvent C7-C12	GC05	G	03/08/06 19:00
185381-001	Trifluorotoluene (FID)	GC05	G	03/08/06 19:00
185381-001	Bromofluorobenzene (FID)	GC05	G	03/08/06 19:00
185381-002	Gasoline C7-C12	GC05	G	03/08/06 19:32
185381-002	Stoddard Solvent C7-C12	GC05	G	03/08/06 19:32
185381-002	Trifluorotoluene (FID)	GC05	G	03/08/06 19:32
185381-002	Bromofluorobenzene (FID)	GC05	G	03/08/06 19:32
185381-003	Gasoline C7-C12	GC05	G	03/08/06 20:04
185381-003	Trifluorotoluene (FID)	GC05	G	03/08/06 20:04
185381-003	Bromofluorobenzene (FID)	GC05	G	03/08/06 20:04
185381-004	Gasoline C7-C12	GC05	G	03/08/06 20:35
185381-004	MTBE	GC05	H	03/08/06 20:35
185381-004	Benzene	GC05	H	03/08/06 20:35
185381-004	Toluene	GC05	H	03/08/06 20:35
185381-004	Ethylbenzene	GC05	H	03/08/06 20:35
185381-004	Trifluorotoluene (FID)	GC05	G	03/08/06 20:35
185381-004	Bromofluorobenzene (FID)	GC05	G	03/08/06 20:35
185381-004	Trifluorotoluene (PID)	GC05	H	03/08/06 20:35
185381-004	Bromofluorobenzene (PID)	GC05	H	03/08/06 20:35
185381-004	Xylene (total)	GC05	H	03/08/06 20:35
185381-005	Gasoline C7-C12	GC05	G	03/08/06 21:07
185381-005	MTBE	GC05	H	03/08/06 21:07
185381-005	Benzene	GC05	H	03/08/06 21:07
185381-005	Toluene	GC05	H	03/08/06 21:07
185381-005	Ethylbenzene	GC05	H	03/08/06 21:07
185381-005	Trifluorotoluene (FID)	GC05	G	03/08/06 21:07
185381-005	Bromofluorobenzene (FID)	GC05	G	03/08/06 21:07
185381-005	Trifluorotoluene (PID)	GC05	H	03/08/06 21:07
185381-005	Bromofluorobenzene (PID)	GC05	H	03/08/06 21:07
185381-005	Xylene (total)	GC05	H	03/08/06 21:07
185381-006	Gasoline C7-C12	GC05	G	03/09/06 00:48
185381-006	MTBE	GC05	H	03/09/06 00:48
185381-006	Benzene	GC05	H	03/09/06 00:48
185381-006	Toluene	GC05	H	03/09/06 00:48
185381-006	Ethylbenzene	GC05	H	03/09/06 00:48
185381-006	Trifluorotoluene (FID)	GC05	G	03/09/06 00:48
185381-006	Bromofluorobenzene (FID)	GC05	G	03/09/06 00:48
185381-006	Trifluorotoluene (PID)	GC05	H	03/09/06 00:48
185381-006	Bromofluorobenzene (PID)	GC05	H	03/09/06 00:48
185381-006	Xylene (total)	GC05	H	03/09/06 00:48
185381-007	Gasoline C7-C12	GC05	G	03/09/06 01:19
185381-007	MTBE	GC05	H	03/09/06 01:19
185381-007	Benzene	GC05	H	03/09/06 01:19
185381-007	Toluene	GC05	H	03/09/06 01:19
185381-007	Ethylbenzene	GC05	H	03/09/06 01:19
185381-007	Trifluorotoluene (FID)	GC05	G	03/09/06 01:19
185381-007	Bromofluorobenzene (FID)	GC05	G	03/09/06 01:19

REPORTING SUMMARY FOR 185381 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185381-007	Trifluorotoluene (PID)	GC05	H	03/09/06 01:19
185381-007	Bromofluorobenzene (PID)	GC05	H	03/09/06 01:19
185381-007	Xylene (total)	GC05	H	03/09/06 01:19
185381-011	Gasoline C7-C12	GC05	G	03/09/06 01:51
185381-011	Trifluorotoluene (FID)	GC05	G	03/09/06 01:51
185381-011	Bromofluorobenzene (FID)	GC05	G	03/09/06 01:51
185381-012	Gasoline C7-C12	GC05	G	03/09/06 02:22
185381-012	Trifluorotoluene (FID)	GC05	G	03/09/06 02:22
185381-012	Bromofluorobenzene (FID)	GC05	G	03/09/06 02:22
185381-013	Gasoline C7-C12	GC05	G	03/09/06 02:54
185381-013	Trifluorotoluene (FID)	GC05	G	03/09/06 02:54
185381-013	Bromofluorobenzene (FID)	GC05	G	03/09/06 02:54
185381-014	Gasoline C7-C12	GC05	G	03/09/06 03:25
185381-014	Trifluorotoluene (FID)	GC05	G	03/09/06 03:25
185381-014	Bromofluorobenzene (FID)	GC05	G	03/09/06 03:25
185381-015	Gasoline C7-C12	GC05	G	03/09/06 03:57
185381-015	MTBE	GC05	H	03/09/06 03:57
185381-015	Benzene	GC05	H	03/09/06 03:57
185381-015	Toluene	GC05	H	03/09/06 03:57
185381-015	Ethylbenzene	GC05	H	03/09/06 03:57
185381-015	Trifluorotoluene (FID)	GC05	G	03/09/06 03:57
185381-015	Bromofluorobenzene (FID)	GC05	G	03/09/06 03:57
185381-015	Trifluorotoluene (PID)	GC05	H	03/09/06 03:57
185381-015	Bromofluorobenzene (PID)	GC05	H	03/09/06 03:57
185381-015	Xylene (total)	GC05	H	03/09/06 03:57
185381-016	Gasoline C7-C12	GC05	G	03/09/06 04:29
185381-016	MTBE	GC05	H	03/09/06 04:29
185381-016	Benzene	GC05	H	03/09/06 04:29
185381-016	Toluene	GC05	H	03/09/06 04:29
185381-016	Ethylbenzene	GC05	H	03/09/06 04:29
185381-016	Trifluorotoluene (FID)	GC05	G	03/09/06 04:29
185381-016	Bromofluorobenzene (FID)	GC05	G	03/09/06 04:29
185381-016	Trifluorotoluene (PID)	GC05	H	03/09/06 04:29
185381-016	Bromofluorobenzene (PID)	GC05	H	03/09/06 04:29
185381-016	Xylene (total)	GC05	H	03/09/06 04:29
185381-017	Gasoline C7-C12	GC05	G	03/09/06 05:00
185381-017	MTBE	GC05	H	03/09/06 05:00
185381-017	Benzene	GC05	H	03/09/06 05:00
185381-017	Toluene	GC05	H	03/09/06 05:00
185381-017	Ethylbenzene	GC05	H	03/09/06 05:00
185381-017	Trifluorotoluene (FID)	GC05	G	03/09/06 05:00
185381-017	Bromofluorobenzene (FID)	GC05	G	03/09/06 05:00
185381-017	Trifluorotoluene (PID)	GC05	H	03/09/06 05:00
185381-017	Bromofluorobenzene (PID)	GC05	H	03/09/06 05:00
185381-017	Xylene (total)	GC05	H	03/09/06 05:00
185381-018	Gasoline C7-C12	GC05	G	03/09/06 05:32

REPORTING SUMMARY FOR 185381 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185381-018	MTBE	GC05	H	03/09/06 05:32
185381-018	Benzene	GC05	H	03/09/06 05:32
185381-018	Toluene	GC05	H	03/09/06 05:32
185381-018	Ethylbenzene	GC05	H	03/09/06 05:32
185381-018	Trifluorotoluene (FID)	GC05	G	03/09/06 05:32
185381-018	Bromofluorobenzene (FID)	GC05	G	03/09/06 05:32
185381-018	Trifluorotoluene (PID)	GC05	H	03/09/06 05:32
185381-018	Bromofluorobenzene (PID)	GC05	H	03/09/06 05:32
185381-018	Xylene (total)	GC05	H	03/09/06 05:32
185381-019	Gasoline C7-C12	GC05	G	03/09/06 08:08
185381-019	Trifluorotoluene (FID)	GC05	G	03/09/06 08:08
185381-019	Bromofluorobenzene (FID)	GC05	G	03/09/06 08:08
185381-020	Gasoline C7-C12	GC05	G	03/09/06 08:39
185381-020	Trifluorotoluene (FID)	GC05	G	03/09/06 08:39
185381-020	Bromofluorobenzene (FID)	GC05	G	03/09/06 08:39
QC330539	Gasoline C7-C12	GC05	G	03/08/06 16:30
QC330539	Stoddard Solvent C7-C12	GC05	G	03/08/06 16:30
QC330539	MTBE	GC05	H	03/08/06 16:30
QC330539	Benzene	GC05	H	03/08/06 16:30
QC330539	Toluene	GC05	H	03/08/06 16:30
QC330539	Ethylbenzene	GC05	H	03/08/06 16:30
QC330539	Trifluorotoluene (FID)	GC05	G	03/08/06 16:30
QC330539	Bromofluorobenzene (FID)	GC05	G	03/08/06 16:30
QC330539	Trifluorotoluene (PID)	GC05	H	03/08/06 16:30
QC330539	Bromofluorobenzene (PID)	GC05	H	03/08/06 16:30
QC330539	Xylene (total)	GC05	H	03/08/06 16:30
QC330540	MTBE	GC05	H	03/08/06 09:46
QC330540	Benzene	GC05	H	03/08/06 09:46
QC330540	Toluene	GC05	H	03/08/06 09:46
QC330540	Ethylbenzene	GC05	H	03/08/06 09:46
QC330540	Trifluorotoluene (PID)	GC05	H	03/08/06 09:46
QC330540	Bromofluorobenzene (PID)	GC05	H	03/08/06 09:46
QC330541	Gasoline C7-C12	GC05	G	03/08/06 10:18
QC330541	Trifluorotoluene (FID)	GC05	G	03/08/06 10:18
QC330541	Bromofluorobenzene (FID)	GC05	G	03/08/06 10:18
QC330666	Gasoline C7-C12	GC05	G	03/09/06 09:11
QC330666	Trifluorotoluene (FID)	GC05	G	03/09/06 09:11
QC330666	Bromofluorobenzene (FID)	GC05	G	03/09/06 09:11
QC330667	Gasoline C7-C12	GC05	G	03/09/06 10:46
QC330667	Trifluorotoluene (FID)	GC05	G	03/09/06 10:46
QC330667	Bromofluorobenzene (FID)	GC05	G	03/09/06 10:46

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111079
Date Started: 08-MAR-2006
Batched by : Micaela M. Perpetuo

Analysis : N/A
Bgroup : TVH
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185381-001			Treadwell & Rollo	Water	TVH	20-MAR-2006
185381-002			Treadwell & Rollo	Water	TVH	20-MAR-2006
185381-003			Treadwell & Rollo	Water	TVH	20-MAR-2006
185381-004			Treadwell & Rollo	Water	MBTXE, TVH	20-MAR-2006
185381-005			Treadwell & Rollo	Water	MBTXE, TVH	20-MAR-2006
185381-006			Treadwell & Rollo	Water	MBTXE, TVH	20-MAR-2006
185381-007			Treadwell & Rollo	Water	MBTXE, TVH	20-MAR-2006
185381-011			Treadwell & Rollo	Water	TVH	20-MAR-2006
185381-012			Treadwell & Rollo	Water	TVH	20-MAR-2006
185381-013			Treadwell & Rollo	Water	TVH	20-MAR-2006
185381-014			Treadwell & Rollo	Water	TVH	20-MAR-2006
185381-015			Treadwell & Rollo	Water	MBTXE, TVH	20-MAR-2006
185381-016			Treadwell & Rollo	Water	MBTXE, TVH	20-MAR-2006
185381-017			Treadwell & Rollo	Water	MBTXE, TVH	20-MAR-2006
185381-018			Treadwell & Rollo	Water	MBTXE, TVH	20-MAR-2006
185381-019			Treadwell & Rollo	Water	TVH	20-MAR-2006
185381-020			Treadwell & Rollo	Water	TVH	20-MAR-2006
QC330539	BLANK			Water		
QC330540	LCS			Water		
QC330541	LCS			Water		
QC330666	MS	of 185381-003		Water		
QC330667	MSD	of 185381-003		Water		

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Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water
As of 03/31/06

Analyte	Units	GC19 X	GC04 A	GC04 J	GC05 G	GC07 A
Gasoline C6-C10	ug/L	21	6.7	6.2	4.8	10
Gasoline C6-C12	ug/L	21	5.5	6.8	4.5	14
Gasoline C7-C12	ug/L	27	4.8	7.2	4.2	15
JP-4 C7-C12	ug/L	4.6		12	9.9	19
Gasoline C6-C8	ug/L					7.0
Gasoline C8-C10	ug/L					12
Trifluorotoluene (FID)	ug/L		3.9			9.8
Bromofluorobenzene (FID)	ug/L		5.2			7.5

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8021B Water
As of 03/31/06

Analyte	Units	GC19 Y	GC19 Z	GC04 K	GC04 L	GC05 H	GC05 I	GC07 B	GC07 C
MTBE	ug/L	0.49	0.18	0.45	0.83	0.30	0.62	0.35	0.23
Benzene	ug/L	0.073	0.033	0.094	0.16	0.034	0.057	0.23	0.035
Toluene	ug/L	0.13	0.025	0.14	0.11	0.048	0.15	0.069	0.024
Ethylbenzene	ug/L	0.14	0.024	0.038	0.12	0.036	0.17	0.084	0.056
m,p-Xylenes	ug/L	0.13	0.039	0.10	0.21	0.030	0.17	0.090	0.027
o-Xylene	ug/L	0.15	0.015	0.12	0.10	0.083	0.19	0.13	0.040

TOTAL EXTRACTABLE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/07/06
Units:	ug/L	Received:	03/08/06
Diln Fac:	1.000	Prepared:	03/16/06
Batch#:	111387		

Field ID:	1065PZ1B	Analyzed:	03/18/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	185381-003		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	90	65-135

Field ID:	1065PZ2B	Analyzed:	03/18/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	185381-004		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	87	65-135

Field ID:	1065PZ5AR	Analyzed:	03/18/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	185381-005		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	84	65-135

Field ID:	DUP0307062B	Analyzed:	03/18/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	185381-006		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	88	65-135

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/07/06
Units:	ug/L	Received:	03/08/06
Diln Fac:	1.000	Prepared:	03/16/06
Batch#:	111387		

Field ID:	1065MW11B	Analyzed:	03/18/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	185381-007		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	84	65-135

Field ID:	LF5GW104	Analyzed:	03/18/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	185381-011		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	88	65-135

Field ID:	DUP0307063B	Analyzed:	03/18/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	185381-012		

Analyte	Result	RL
Diesel C12-C24	50 Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	89	65-135

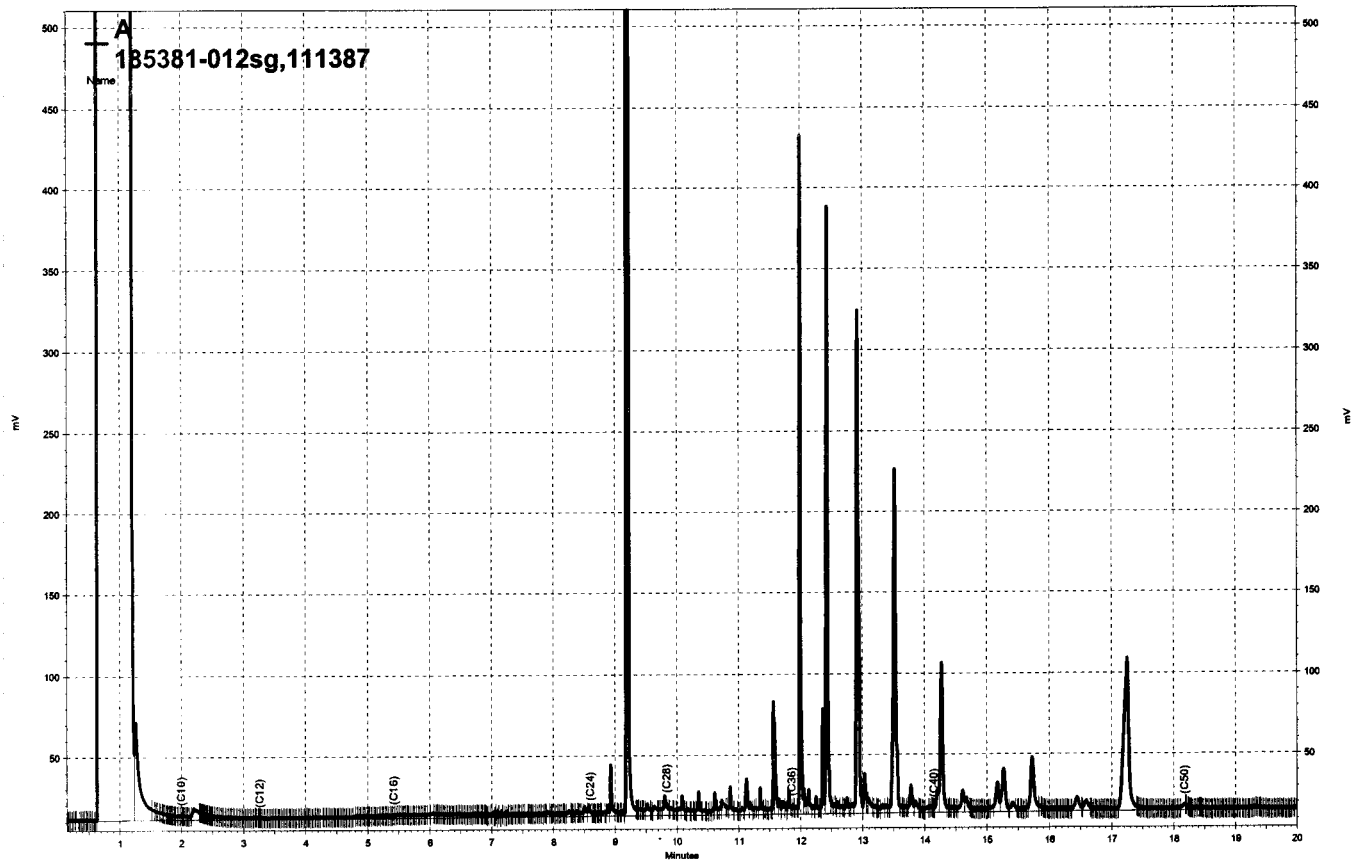
Field ID:	1349MW102	Analyzed:	03/18/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	185381-013		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	93	65-135

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

DUP0307063B



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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/07/06
Units:	ug/L	Received:	03/08/06
Diln Fac:	1.000	Prepared:	03/16/06
Batch#:	111387		

Field ID:	DUP0307063C	Analyzed:	03/20/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	185381-014		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	81	65-135

Field ID:	610GW101	Analyzed:	03/18/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	185381-015		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	80	65-135

Field ID:	610GW102	Analyzed:	03/18/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	185381-016		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	89	65-135

Field ID:	610GW103	Analyzed:	03/21/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	185381-017		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	80	65-135

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/07/06
Units:	ug/L	Received:	03/08/06
Diln Fac:	1.000	Prepared:	03/16/06
Batch#:	111387		

Field ID: DUP0307061A — Analyzed: 03/21/06
Type: SAMPLE — Cleanup Method: EPA 3630C
Lab ID: 185381-018

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	92	65-135

Field ID: 600GW108 — Analyzed: 03/21/06
Type: SAMPLE — Cleanup Method: EPA 3630C
Lab ID: 185381-019

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	82	65-135

Field ID: DUP0307061B — Lab ID: 185381-020
Type: SAMPLE — Cleanup Method: EPA 3630C

Analyte	Result	RL	Analyzed
Diesel C12-C24	ND	50	03/22/06
Motor Oil C24-C36	ND	300	03/21/06

Surrogate	%REC	Limits	Analyzed
Hexacosane	79	65-135	03/21/06

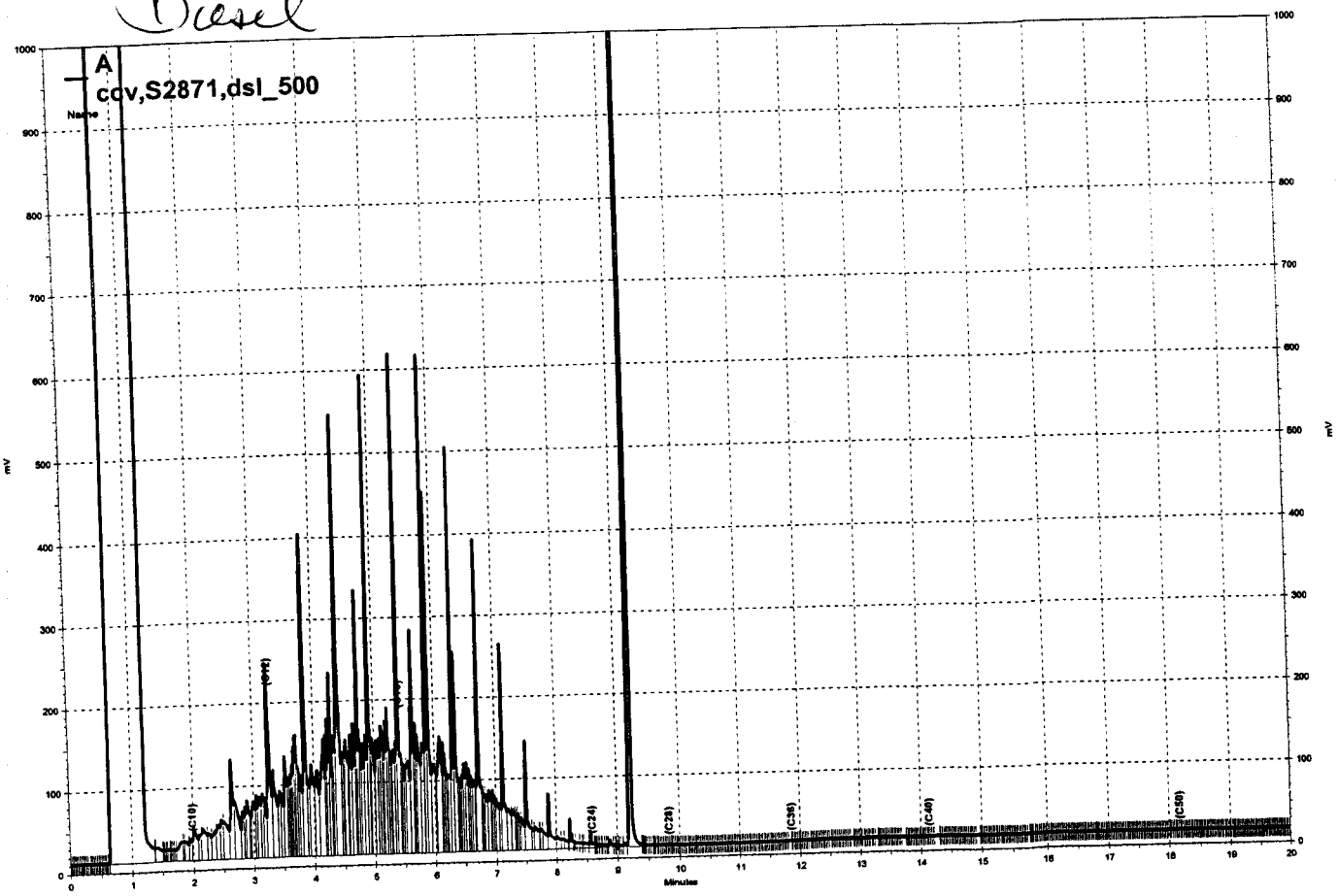
Type: BLANK — Analyzed: 03/18/06
Lab ID: QC331828 — Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	89	65-135

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Diesel



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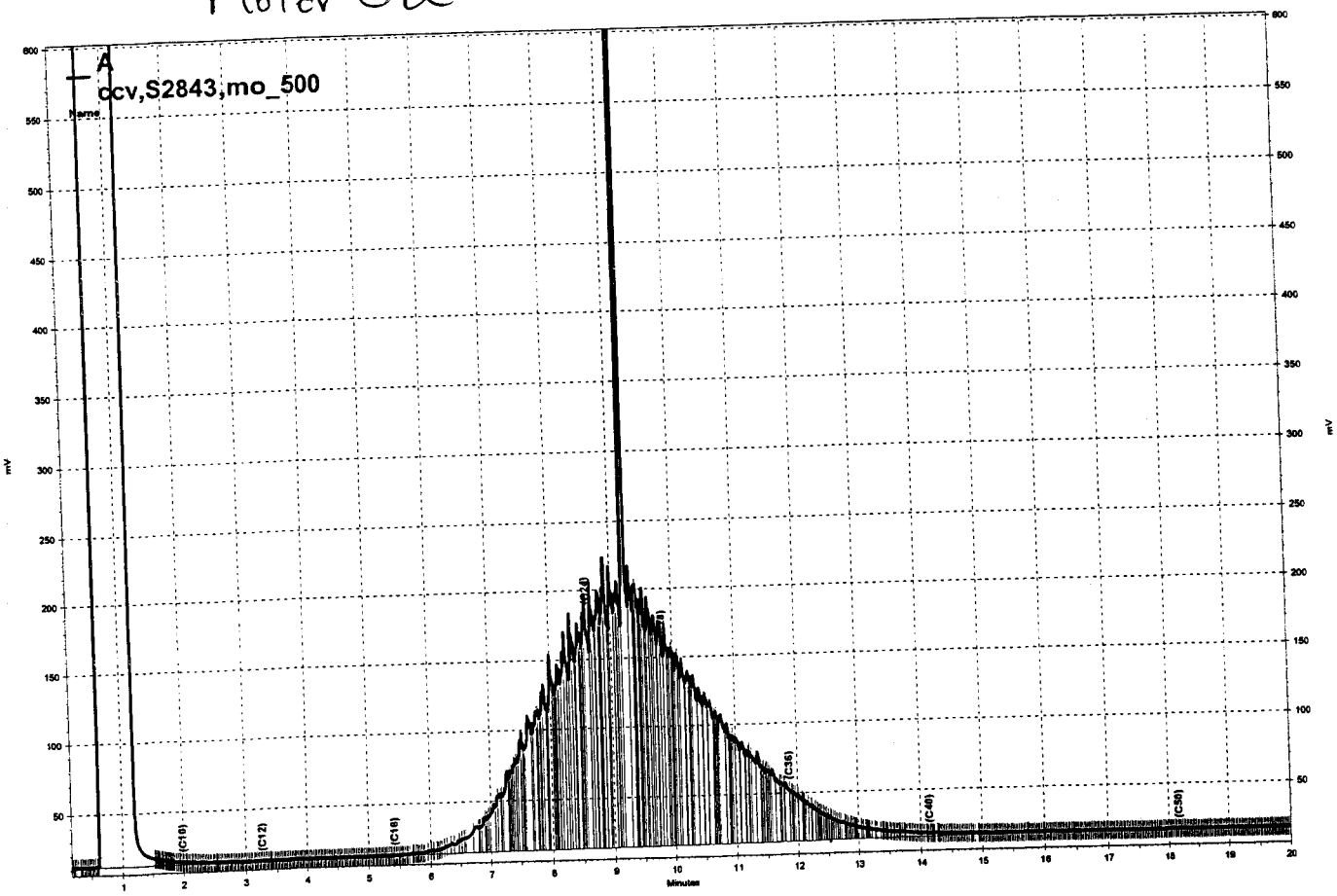
Motor Oil



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Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	111387
Units:	ug/L	Prepared:	03/16/06
Diln Fac:	1.000	Analyzed:	03/18/06

Type: BS Cleanup Method: EPA 3630C
Lab ID: QC331829

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	2,500	2,587	103	65-135

Surrogate	%REC	Limits
Hexacosane	94	65-135

Type: BSD Cleanup Method: EPA 3630C
Lab ID: QC331830

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,458	98	65-135	5	35

Surrogate	%REC	Limits
Hexacosane	92	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185381 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 115446255002
Units : mg/L

Name : DIESEL
Date : 05-NOV-2005 23:53
X Axis : R

Reviewer: RH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	309a011	115446255011	dsl_10	05-NOV-2005 23:53	S1732
L2	309a013	115446255013	dsl_250	06-NOV-2005 00:49	S1734
L3	309a014	115446255014	dsl_500	06-NOV-2005 01:17	S1735
L4	309a015	115446255015	dsl_1000	06-NOV-2005 01:45	S1736
L5	309a016	115446255016	dsl_2500	06-NOV-2005 02:12	S1737
L6	309a017	115446255017	dsl_5000	06-NOV-2005 02:40	S1731
L7	309a039	115446255039	dsl_100	06-NOV-2005 22:23	S1733

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	66564	67471	67989	68804	69120	69411	70464	AVRG		1.46E-5		68546	2	0.995	20	

72

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

115446255002

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185381 GCSV Water
EPA 8015B

Inst : GC11A
Calnum : 115446255002

Name : DIESEL
Cal Date: 05-NOV-2005

ICV 115446255040 (309a040 06-NOV-2005) stds: S1178

Analyte	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	500.0	498.6	mg/L	0	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185381 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 116049801004
Units : mg/L

Date : 04-FEB-2006 00:18
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	034a023	116049801023	mo_50	04-FEB-2006 00:18	S2118
L2	034a024	116049801024	mo_250	04-FEB-2006 00:46	S2119
L3	034a025	116049801025	mo_500	04-FEB-2006 01:14	S2120
L4	034a026	116049801026	mo_1000	04-FEB-2006 01:42	S2121
L5	034a027	116049801027	mo_2500	04-FEB-2006 02:10	S2122
L6	034a028	116049801028	mo_5000	04-FEB-2006 02:39	S2117

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	40103	42997	43448	44594	44247	45696	AVRG		2.30E-5		43514	4	0.995	20	

74

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

116049801004

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185381 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 115446255001
Units : mg/L

Name : Hexacosane
Date : 05-NOV-2005 21:35
X Axis : R

Reviewer: RH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	309a006	115446255006	hex_5	05-NOV-2005 21:35	S1469
L2	309a007	115446255007	hex_10	05-NOV-2005 22:02	S1470
L3	309a008	115446255008	hex_25	05-NOV-2005 22:30	S1471
L4	309a009	115446255009	hex_50	05-NOV-2005 22:58	S1472
L5	309a010	115446255010	hex_75	05-NOV-2005 23:25	S1473

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	78300	78621	78154	81971	77951	AVRG		1.27E-5		78999	2	0.995	20	

75

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185381 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176085452001
Units : mg/L

Date : 01-MAR-2006 07:43
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	059a013	176085452013	dsl_50	01-MAR-2006 07:43	S1732
L2	059a014	176085452014	dsl_100	01-MAR-2006 08:10	S1733
L3	059a015	176085452015	dsl_250	01-MAR-2006 08:37	S1734
L4	059a016	176085452016	dsl_500	01-MAR-2006 09:04	S1735
L5	059a017	176085452017	dsl_1000	01-MAR-2006 09:32	S1736
L6	059a018	176085452018	dsl_2500	01-MAR-2006 10:00	S1737
L7	059a019	176085452019	dsl_5000	01-MAR-2006 10:27	S1731

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	55630	52210	52572	55087	56497	58583	60304	AVRG		1.79E-5		55841	5	0.995	20	

76

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

176085452001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185381 GCSV Water
EPA 8015B

Inst : GC17A
Calnum : 176085452001 Cal Date: 01-MAR-2006

ICV 176085452021 (059a021 01-MAR-2006) stds: S2708

Analyte	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	500.0	454.9	mg/L	-9	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185381 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176093018001
Units : mg/L

Date : 05-MAR-2006 18:11
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	064a007	176093018007	mo_50	05-MAR-2006 18:11	S2118
L2	064a008	176093018008	mo_250	05-MAR-2006 18:38	S2119
L3	064a009	176093018009	mo_500	05-MAR-2006 19:05	S2120
L4	064a010	176093018010	mo_1000	05-MAR-2006 19:32	S2121
L5	064a011	176093018011	mo_2500	05-MAR-2006 20:00	S2122
L6	064a012	176093018012	mo_5000	05-MAR-2006 20:27	S2117

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	35446	41492	40972	42562	41512	41334	AVRG		2.47E-5		40553	6	0.995	20	

78

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

176093018001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185381 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176098515001
Units : mg/L

Name : hexagc17cal
Date : 09-MAR-2006 19:42
X Axis : R

Reviewer: CW
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	068a015	176098515015	hex_5	09-MAR-2006 19:42	S2694
L2	068a016	176098515016	hex_10	09-MAR-2006 20:09	S2695
L3	068a017	176098515017	hex_25	09-MAR-2006 20:37	S2696
L4	068a018	176098515018	hex_50	09-MAR-2006 21:04	S2697
L5	068a019	176098515019	hex_75	09-MAR-2006 21:31	S2698

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	81036	80318	79162	79599	78325	AVRG		1.25E-5		79688	1	0.995	20	

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION SUMMARY FOR 185381 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116114237026	20-MAR-2006 20:02	115446255002	05-NOV-2005	68546	59190	250.00	215.88	mg/L	-14	15	
GC11A	A	116114237039	21-MAR-2006 02:42	115446255002	05-NOV-2005	68546	64522	500.00	470.65	mg/L	-6	15	
GC11A	A	116114237047	21-MAR-2006 08:06	115446255002	05-NOV-2005	68546	62050	1000.0	905.24	mg/L	-9	15	
GC11A	A	116114237059	21-MAR-2006 17:50	115446255002	05-NOV-2005	68546	61365	1000.0	895.24	mg/L	-10	15	
GC11A	A	116114237087	22-MAR-2006 07:22	115446255002	05-NOV-2005	68546	62625	1000.0	913.61	mg/L	-9	15	
GC11A	A	116114237096	22-MAR-2006 11:55	115446255002	05-NOV-2005	68546	59132	250.00	215.66	mg/L	-14	15	
GC17A	A	176109909039	18-MAR-2006 03:34	176085452001	01-MAR-2006	55841	63248	500.00	566.33	mg/L	13	15	
GC17A	A	176109909053	18-MAR-2006 09:56	176085452001	01-MAR-2006	55841	59297	250.00	265.47	mg/L	6	15	
GC17A	A	176109909062	18-MAR-2006 14:01	176085452001	01-MAR-2006	55841	66723	500.00	597.44	mg/L	**19**	15	c+ ***

+=high bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 185381 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116114237025	20-MAR-2006 19:33	116049801004	04-FEB-2006	43514	38899	500.00	446.96	mg/L	-11	15	
GC11A	A	116114237038	21-MAR-2006 02:14	116049801004	04-FEB-2006	43514	41947	500.00	482.00	mg/L	-4	15	
GC11A	A	116114237046	21-MAR-2006 07:39	116049801004	04-FEB-2006	43514	41222	500.00	473.66	mg/L	-5	15	
GC11A	A	116114237057	21-MAR-2006 16:52	116049801004	04-FEB-2006	43514	40708	500.00	467.76	mg/L	-6	15	
GC17A	A	176109909040	18-MAR-2006 04:01	176093018001	05-MAR-2006	40553	45531	500.00	561.37	mg/L	12	15	
GC17A	A	176109909054	18-MAR-2006 10:23	176093018001	05-MAR-2006	40553	46740	500.00	576.28	mg/L	15	15	
GC17A	A	176109909061	18-MAR-2006 13:34	176093018001	05-MAR-2006	40553	45239	500.00	557.77	mg/L	12	15	
GC17A	A	176114438051	21-MAR-2006 10:25	176093018001	05-MAR-2006	40553	45477	500.00	560.71	mg/L	12	15	
GC17A	A	176114438062	21-MAR-2006 16:44	176093018001	05-MAR-2006	40553	37939	500.00	467.77	mg/L	-6	15	

CONTINUING CALIBRATION SUMMARY FOR 185381 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116114237025	20-MAR-2006 19:33	115446255001	05-NOV-2005	78999	70502	50.000	44.622	mg/L	-11	15	
GC11A	A	116114237038	21-MAR-2006 02:14	115446255001	05-NOV-2005	78999	70799	50.000	44.810	mg/L	-10	15	
GC11A	A	116114237046	21-MAR-2006 07:39	115446255001	05-NOV-2005	78999	71838	50.000	45.467	mg/L	-9	15	
GC11A	A	116114237057	21-MAR-2006 16:52	115446255001	05-NOV-2005	78999	70143	50.000	44.395	mg/L	-11	15	
GC17A	A	176109909039	18-MAR-2006 03:34	176098515001	09-MAR-2006	79688	77613	50.000	48.698	mg/L	-3	15	
GC17A	A	176109909053	18-MAR-2006 09:56	176098515001	09-MAR-2006	79688	77221	50.000	48.452	mg/L	-3	15	
GC17A	A	176109909061	18-MAR-2006 13:34	176098515001	09-MAR-2006	79688	77251	50.000	48.471	mg/L	-3	15	
GC17A	A	176114438047	21-MAR-2006 08:36	176098515001	09-MAR-2006	79688	78630	50.000	49.336	mg/L	-1	15	
GC17A	A	176114438062	21-MAR-2006 16:44	176098515001	09-MAR-2006	79688	76516	50.000	48.010	mg/L	-4	15	

SEQUENCE SUMMARY FOR 185381 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 115446255 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 05-NOV-2005
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
003	309a003	X	c12-60			05-NOV-2005 20:11	1.0						
004	309a004	X	c50			05-NOV-2005 20:39	1.0						
005	309a005	X	ib			05-NOV-2005 21:07	1.0						
006	309a006	ICAL	hex_5			05-NOV-2005 21:35	1.0					1	
007	309a007	ICAL	hex_10			05-NOV-2005 22:02	1.0					2	
008	309a008	ICAL	hex_25			05-NOV-2005 22:30	1.0					3	
009	309a009	ICAL	hex_50			05-NOV-2005 22:58	1.0					4	
010	309a010	ICAL	hex_75			05-NOV-2005 23:25	1.0					5	
011	309a011	ICAL	dsl_10			05-NOV-2005 23:53	1.0					6	
013	309a013	ICAL	dsl_250			06-NOV-2005 00:49	1.0					7	
014	309a014	ICAL	dsl_500			06-NOV-2005 01:17	1.0					8	
015	309a015	ICAL	dsl_1000			06-NOV-2005 01:45	1.0					9	
016	309a016	ICAL	dsl_2500			06-NOV-2005 02:12	1.0					10	
017	309a017	ICAL	dsl_5000			06-NOV-2005 02:40	1.0					11	
039	309a039	ICAL	dsl_100			06-NOV-2005 22:23	1.0					12	83
040	309a040	ICV	dsl			06-NOV-2005 23:18	1.0		3			13	
041	309a041	ICAL	mo_50			06-NOV-2005 23:46	1.0					14	
042	309a042	ICAL	mo_250			07-NOV-2005 00:14	1.0					15	
043	309a043	ICAL	mo_500			07-NOV-2005 00:42	1.0					16	
044	309a044	ICAL	mo_1000			07-NOV-2005 01:10	1.0					17	
045	309a045	ICAL	mo_2500			07-NOV-2005 01:38	1.0					18	
046	309a046	ICAL	mo_5000			07-NOV-2005 02:06	1.0					19	

Stds used: 1=S1469 2=S1470 3=S1471 4=S1472 5=S1473 6=S1732 7=S1734 8=S1735 9=S1736 10=S1737 11=S1731 12=S1733 13=S1178 14=S693 15=S694 16=S695 17=S696 18=S697 19=S691

SEQUENCE SUMMARY FOR 185381 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116049801 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 03-FEB-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	034a001	X	primer			03-FEB-2006 14:01	1.0							
002	034a002	X	ib			03-FEB-2006 14:29	1.0							
003	034a003	CCV	dsl_250			03-FEB-2006 14:57	1.0			3			1	
004	034a004	X	ib			03-FEB-2006 15:25	1.0							
005	034a005	CCV	mo_500			03-FEB-2006 15:53	1.0	6		3			2	
006	034a006	?SAMPLE	184620-007			03-FEB-2006 16:21	1.0							
007	034a007	?SAMPLE	184620-008			03-FEB-2006 16:49	1.0							
008	034a008	?SAMPLE	184620-009			03-FEB-2006 17:17	1.0							
009	034a009	?SAMPLE	184620-010			03-FEB-2006 17:45	1.0							
010	034a010	X	ib			03-FEB-2006 18:13	1.0							
011	034a011	?SAMPLE	184620-006			03-FEB-2006 18:41	1.0							
012	034a012	?SAMPLE	184620-004			03-FEB-2006 19:09	1.0							
013	034a013	?SAMPLE	184620-005			03-FEB-2006 19:37	1.0							
014	034a014	X	ib			03-FEB-2006 20:05	1.0							
015	034a015	?SAMPLE	184620-001			03-FEB-2006 20:33	1.0							84
016	034a016	?SAMPLE	184620-002			03-FEB-2006 21:01	1.0							
017	034a017	?SAMPLE	184620-003			03-FEB-2006 21:29	1.0							
018	034a018	X	ib			03-FEB-2006 21:57	1.0							
019	034a019	CCV	dsl_500			03-FEB-2006 22:25	1.0						3	
020	034a020	X	ib			03-FEB-2006 22:54	1.0							
021	034a021	X	ib			03-FEB-2006 23:22	1.0							
022	034a022	X	ib			03-FEB-2006 23:50	1.0							
023	034a023	ICAL	mo_50			04-FEB-2006 00:18	1.0						4	
024	034a024	ICAL	mo_250			04-FEB-2006 00:46	1.0						5	
025	034a025	ICAL	mo_500			04-FEB-2006 01:14	1.0						6	
026	034a026	ICAL	mo_1000			04-FEB-2006 01:42	1.0						7	
027	034a027	ICAL	mo_2500			04-FEB-2006 02:10	1.0						8	
028	034a028	ICAL	mo_5000			04-FEB-2006 02:39	1.0						9	
029	034a029	X	ib			04-FEB-2006 03:07	1.0							

Stds used: 1=S2505 2=S2577 3=S2504 4=S2118 5=S2119 6=S2120 7=S2121 8=S2122 9=S2117

SEQUENCE SUMMARY FOR 185381 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176085452 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 28-FEB-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	059a001	X	primer			28-FEB-2006 08:12	1.0							
002	059a002	X	primer			28-FEB-2006 11:01	1.0							
003	059a003	X	ib			28-FEB-2006 11:28	1.0							
004	059a004	CCV	S2662.dsl_50			28-FEB-2006 11:56	1.0							
005	059a005	CCV	mo_500			28-FEB-2006 12:23	1.0						1	
006	059a006	X	ccv			28-FEB-2006 14:08	1.0						1	
007	059a007	CCV	dsl_500			28-FEB-2006 16:04	1.0			3			2	
008	059a008	CCV	mo_500			28-FEB-2006 18:04	1.0	6		3			1	
009	059a009	X	ib			28-FEB-2006 22:27	1.0							
010	059a010	X	c 10-16			28-FEB-2006 22:54	20.0							
011	059a011	X	c 12-60			28-FEB-2006 23:21	1.0							
012	059a012	X	ib			01-MAR-2006 07:15	1.0							
013	059a013	ICAL	dsl_50			01-MAR-2006 07:43	1.0						3	
014	059a014	ICAL	dsl_100			01-MAR-2006 08:10	1.0						4	
015	059a015	ICAL	dsl_250			01-MAR-2006 08:37	1.0						5	85
016	059a016	ICAL	dsl_500			01-MAR-2006 09:04	1.0						6	
017	059a017	ICAL	dsl_1000			01-MAR-2006 09:32	1.0						7	
018	059a018	ICAL	dsl_2500			01-MAR-2006 10:00	1.0						8	
019	059a019	ICAL	dsl_5000			01-MAR-2006 10:27	1.0						9	
020	059a020	X	ib			01-MAR-2006 10:54	1.0							
021	059a021	ICV	dsl_500			01-MAR-2006 11:22	1.0			3			10	
022	059a022	X	dsl_500			01-MAR-2006 11:49	1.0						10	
023	059a023	X	ib			01-MAR-2006 12:16	1.0							
024	059a024	ICAL	mo_50			01-MAR-2006 12:44	1.0						11	
025	059a025	ICAL	mo_250			01-MAR-2006 13:11	1.0						12	
026	059a026	ICAL	mo_500			01-MAR-2006 13:38	1.0						13	
027	059a027	ICAL	mo_1000			01-MAR-2006 14:06	1.0						14	
028	059a028	ICAL	mo_2500			01-MAR-2006 14:33	1.0						15	
029	059a029	ICAL	mo_5000			01-MAR-2006 15:01	1.0						16	
030	059a030	X	ib			01-MAR-2006 15:28	1.0							

Stds used: 1=S2741 2=S2662 3=S1732 4=S1733 5=S1734 6=S1735 7=S1736 8=S1737 9=S1731 10=S2708 11=S2118 12=S2119 13=S2120 14=S2121 15=S2122 16=S2117 17=S2694 18=S2695 19=S2696 20=S2697 21=S2698

SEQUENCE SUMMARY FOR 185381 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176085452 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 28-FEB-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC SPK uL	VL	pH	Stds Used	>LR
031	059a031	ICAL	hex_5			01-MAR-2006 15:55	1.0				17	
032	059a032	ICAL	hex_10			01-MAR-2006 16:23	1.0				18	
033	059a033	ICAL	hex_25			01-MAR-2006 16:50	1.0				19	
034	059a034	ICAL	hex_50			01-MAR-2006 17:17	1.0				20	
035	059a035	ICAL	hex_75			01-MAR-2006 17:44	1.0				21	
036	059a036	X	ib			01-MAR-2006 18:11	1.0					

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Stds used: 1=S2741 2=S2662 3=S1732 4=S1733 5=S1734 6=S1735 7=S1736 8=S1737 9=S1731 10=S2708 11=S2118 12=S2119 13=S2120 14=S2121 15=S2122 16=S2117 17=S2694 18=S2695 19=S2696 20=S2697 21=S2698

SEQUENCE SUMMARY FOR 185381 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176093018 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 05-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	064a001	X	primer			05-MAR-2006 14:18	1.0					
002	064a002	X	ib			05-MAR-2006 14:45	1.0					
003	064a003	CCV	dsl_500			05-MAR-2006 15:13	1.0	1.0		3	1	
004	064a004	CCV	mo_500			05-MAR-2006 15:40	1.0	1.0	5	3	2	
005	064a005	CCV	bunk_1250			05-MAR-2006 16:07	1.0	1.0		3	3	
006	064a006	CCV	mo_500			05-MAR-2006 17:21	1.0	1.0	4	3	4	
007	064a007	ICAL	mo_50			05-MAR-2006 18:11	1.0	1.0			5	
008	064a008	ICAL	mo_250			05-MAR-2006 18:38	1.0	1.0			6	
009	064a009	ICAL	mo_500			05-MAR-2006 19:05	1.0	1.0			7	
010	064a010	ICAL	mo_1000			05-MAR-2006 19:32	1.0	1.0			8	
011	064a011	ICAL	mo_2500			05-MAR-2006 20:00	1.0	1.0			9	
012	064a012	ICAL	mo_5000			05-MAR-2006 20:27	1.0	1.0			10	
013	064a013	X	ib			05-MAR-2006 20:54	1.0					
014	064a014	X	ib			05-MAR-2006 21:21	1.0					
015	064a015	CCV	dsl_1000			05-MAR-2006 21:48	1.0				11	87
016	064a016	CCV	mo_500			05-MAR-2006 22:16	1.0				4	
017	064a017	CCV	bunk_1250			05-MAR-2006 22:43	1.0				3	
018	064a018	X	xccv			05-MAR-2006 23:10	1.0				11	
019	064a019	BLANK	QC329822 S	110900	Water	05-MAR-2006 23:38	1.0					
020	064a020	BLANK	QC329951 S	110935	Soil	06-MAR-2006 00:05	1.0					
021	064a021	BLANK	QC330003 S	110946	Soil	06-MAR-2006 00:32	1.0					
022	064a022	LCS	QC329823 S	110900	Water	06-MAR-2006 00:59	1.0					
023	064a023	LCS	QC329952 S	110935	Soil	06-MAR-2006 01:27	1.0					
024	064a024	LCS	QC330004 S	110946	Soil	06-MAR-2006 01:55	1.0					
025	064a025	MS	QC329824	110900	Water	06-MAR-2006 02:22	1.0					
026	064a026	MSD	QC329825	110900	Water	06-MAR-2006 02:50	1.0					
027	064a027	MS	QC330005 S	110946	Soil	06-MAR-2006 03:17	2.0					
028	064a028	MSD	QC330006 S	110946	Soil	06-MAR-2006 03:44	2.0					
029	064a029	X	ib			06-MAR-2006 04:11	1.0					
030	064a030	CCV	dsl_250			06-MAR-2006 04:39	1.0				12	
031	064a031	CCV	mo_500			06-MAR-2006 05:06	1.0				4	

Stds used: 1=S2662 2=S2741 3=S2401 4=S2843 5=S2118 6=S2119 7=S2120 8=S2121 9=S2122 10=S2117 11=S2647 12=S2755

SEQUENCE SUMMARY FOR 185381 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176093018 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 05-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	064a032	CCV	bunk_1250			06-MAR-2006 05:33	1.0				3	
033	064a033	X	xccv			06-MAR-2006 06:00	1.0				12	
034	064a034	SAMPLE	185049-005	110845	Water	06-MAR-2006 06:28	1.0					
035	064a035	SAMPLE	185057-001	110845	Water	06-MAR-2006 06:55	1.0					
036	064a036	SAMPLE	185021-004	110845	Water	06-MAR-2006 07:33	1.0					
037	064a037	SAMPLE	185096-003	110851	Water	06-MAR-2006 08:01	1.0					
038	064a038	?SAMPLE	185095-003	110851		06-MAR-2006 08:28	1.0					
039	064a039	MSS	185082-015 S	110946	Soil	06-MAR-2006 08:56	2.0	0.1008	5	3		
040	064a040	?MS	QC329951	110935		06-MAR-2006 09:23	2.0					
041	064a041	?MSD	QC329952	110935		06-MAR-2006 09:50	2.0					
042	064a042	MS	QC329764	110886	Soil	06-MAR-2006 10:18	5.0					
043	064a043	?MSD	QC329764	110886		06-MAR-2006 10:45	5.0					
044	064a044	X	ib			06-MAR-2006 11:12	1.0					
045	064a045	X	ib			06-MAR-2006 11:40	1.0					
046	064a046	CCV	dsl_500			06-MAR-2006 12:07	1.0				2	88
047	064a047	CCV	mo_500			06-MAR-2006 12:35	1.0				4	
048	064a048	CCV	bunk_1250			06-MAR-2006 13:02	1.0				3	
049	064a049	X	xccv			06-MAR-2006 13:29	1.0				2	

Stds used: 1=S2662 2=S2741 3=S2401 4=S2843 5=S2118 6=S2119 7=S2120 8=S2121 9=S2122 10=S2117 11=S2647 12=S2755

SEQUENCE SUMMARY FOR 185381 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176098515 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 09-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	068a001	X	ib			09-MAR-2006 09:55	1.0						
002	068a002	?SAMPLE	185382-001			09-MAR-2006 10:22	10.0						
003	068a003	?SAMPLE	185382-002			09-MAR-2006 10:49	10.0						
004	068a004	?SAMPLE	185382-003			09-MAR-2006 11:17	10.0						
005	068a005	?SAMPLE	185382-004			09-MAR-2006 11:44	10.0						
006	068a006	?SAMPLE	185382-005			09-MAR-2006 12:12	10.0						
007	068a007	X	ib			09-MAR-2006 12:39	1.0						
008	068a008	X	mb fingerpri			09-MAR-2006 13:06	1.0						
009	068a009	CCV	jet_250			09-MAR-2006 13:34	1.0					1	
010	068a010	X	ib			09-MAR-2006 16:37	1.0						
011	068a011	CCV	dsl_500			09-MAR-2006 17:05	1.0	1.0			3	2	
012	068a012	CCV	mo_500			09-MAR-2006 17:32	1.0	1.0	2		3	3	
013	068a013	CCV	bunk_1250			09-MAR-2006 18:23	1.0	1.0			3	4	
014	068a014	X	ib			09-MAR-2006 19:15	1.0						
015	068a015	ICAL	hex_5			09-MAR-2006 19:42	1.0	1.0				5	89
016	068a016	ICAL	hex_10			09-MAR-2006 20:09	1.0	1.0				6	
017	068a017	ICAL	hex_25			09-MAR-2006 20:37	1.0	1.0				7	
018	068a018	ICAL	hex_50			09-MAR-2006 21:04	1.0	1.0				8	
019	068a019	ICAL	hex_75			09-MAR-2006 21:31	1.0	1.0				9	
020	068a020	X	ib			09-MAR-2006 21:59	1.0						
021	068a021	CCV	dsl_1000			09-MAR-2006 22:26	1.0	1.0			3	10	
022	068a022	CCV	mo_500			09-MAR-2006 22:53	1.0	1.0	2		3	3	
023	068a023	X	dsl_1000			09-MAR-2006 23:20	1.0					10	
024	068a024	CCV	bunk_1250			09-MAR-2006 23:48	1.0	1.0			3	4	
025	068a025	SAMPLE	185247-003 S	111034	Water	10-MAR-2006 00:15	1.0	0.005			3		
026	068a026	SAMPLE	185271-008 S	111034	Water	10-MAR-2006 00:42	1.0	0.005			3		
027	068a027	SAMPLE	185334-001 S	111055	Water	10-MAR-2006 01:10	1.0	0.005			3		
028	068a028	SAMPLE	185271-009 S	111034	Water	10-MAR-2006 01:37	1.0	0.005			3		
029	068a029	SAMPLE	185271-010 S	111034	Water	10-MAR-2006 02:04	1.0	0.005			3		
030	068a030	SAMPLE	185350-001 S	111055	Water	10-MAR-2006 02:31	1.0	0.005			3		
031	068a031	SAMPLE	185333-014 S	111062	Soil	10-MAR-2006 02:58	1.0	0.1000			3		

Stds used: 1=S2432 2=S2871 3=S2741 4=S2872 5=S2694 6=S2695 7=S2696 8=S2697 9=S2698 10=S2885 11=S2755 12=S2843

SEQUENCE SUMMARY FOR 185381 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176098515 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 09-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used >LR
032	068a032	SAMPLE	185247-005 S	111034	Water	10-MAR-2006 03:25	1.0	0.005	2	1	3	17:BUNKC:=50672.4
033	068a033	MS	QC330414 S	111050	Soil	10-MAR-2006 03:52	1.0	0.1009		1	3	3:BUNKC:=7224.34
034	068a034	MSD	QC330415 S	111050	Soil	10-MAR-2006 04:20	1.0	0.1001			3	1:BUNKC:=5003.11
035	068a035	CCV	dsl_250			10-MAR-2006 04:47	1.0	1.0			3	11
036	068a036	CCV	mo_500			10-MAR-2006 05:14	1.0	1.0	2		3	3
037	068a037	X	xccv			10-MAR-2006 05:42	1.0					11
038	068a038	CCV	bunk_1250			10-MAR-2006 06:09	1.0	1.0			3	4
039	068a039	SAMPLE	185333-022 S	111062	Soil	10-MAR-2006 06:36	1.0	0.1006			3	
040	068a040	SAMPLE	185333-023 S	111062	Soil	10-MAR-2006 07:03	1.0	0.1004			3	
041	068a041	SAMPLE	185211-001	111002	Water	10-MAR-2006 07:30	1.0	0.005			3	
042	068a042	SAMPLE	185211-002	111002	Water	10-MAR-2006 07:58	1.0	0.005			3	
043	068a043	SAMPLE	185229-030	111002	Water	10-MAR-2006 08:24	1.0	0.005		1	3	
044	068a044	SAMPLE	185229-031	111002	Water	10-MAR-2006 08:52	1.0	0.005			3	
045	068a045	SAMPLE	185229-033	111002	Water	10-MAR-2006 09:19	1.0	0.005			3	
046	068a046	SAMPLE	185279-001	111034	Water	10-MAR-2006 09:46	1.0	0.005	1		3	1:HXCS=104.820
047	068a047	SAMPLE	185339-001	111055	Water	10-MAR-2006 10:13	1.0	0.005			3	
048	068a048	SAMPLE	185339-002	111055	Water	10-MAR-2006 10:40	5.0	0.005			3	
049	068a049	CCV	dsl_500			10-MAR-2006 11:08	1.0	1.0			3	2
050	068a050	CCV	mo_500			10-MAR-2006 11:36	1.0	1.0	2		3	12
051	068a051	X	dsl_500			10-MAR-2006 12:03	1.0					2
052	068a052	CCV	bunk_1250			10-MAR-2006 12:30	1.0	1.0			3	4

Stds used: 1=S2432 2=S2871 3=S2741 4=S2872 5=S2694 6=S2695 7=S2696 8=S2697 9=S2698 10=S2885 11=S2755 12=S2843

SEQUENCE SUMMARY FOR 185381 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176109909 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 17-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	076a001	X	Pimer			17-MAR-2006 07:49	1.0					
002	076a002	X	ib			17-MAR-2006 08:16	1.0					
003	076a003	CCV	dsl_500			17-MAR-2006 08:55	1.0	1.0		3	1	
004	076a004	CCV	mo_500			17-MAR-2006 09:22	1.0	1.0	2	3	2	
005	076a005	SAMPLE	185565-001	111371	Soil	17-MAR-2006 10:10	25.0	0.1006		3		2:BUNKC:=7056.90
006	076a006	CCV	dsl_1000			17-MAR-2006 10:54	1.0	1.0		3	3	
007	076a007	CCV	mo_500			17-MAR-2006 11:21	1.0	1.0	2	3	2	
008	076a008	SAMPLE	185492-024	111361	Soil	17-MAR-2006 12:55	10.0	0.0999		3		1:BUNKC:=5071.01
009	076a009	SAMPLE	185492-003	111361	Soil	17-MAR-2006 13:22	10.0	0.1004		3		
010	076a010	SAMPLE	185492-022	111361	Soil	17-MAR-2006 13:50	1.0	0.1005		3		2:BUNKC:=7795.88
011	076a011	X	ib			17-MAR-2006 14:17	1.0					
012	076a012	SAMPLE	185492-031	111371	Soil	17-MAR-2006 14:45	1.0	0.09952		3		
013	076a013	SAMPLE	185492-012	111361	Soil	17-MAR-2006 15:13	1.0	0.1002		3		
014	076a014	CCV	dsl_250			17-MAR-2006 15:41	1.0	1.0		3	4	
015	076a015	CCV	mo_500			17-MAR-2006 16:08	1.0	1.0	2	3	2	
016	076a016	X	ib			17-MAR-2006 17:02	1.0					
017	076a017	CCV	jet_250			17-MAR-2006 17:30	1.0	1.0		3	5	
018	076a018	SAMPLE	185540-006 S	111371	Miscel	17-MAR-2006 17:57	1.0	0.1004		3		
019	076a019	SAMPLE	185540-002 S	111371	Miscel	17-MAR-2006 18:25	1.0	0.1002		3		
020	076a020	SAMPLE	185540-004 S	111371	Miscel	17-MAR-2006 18:53	1.0	0.09976		3		
021	076a021	SAMPLE	185540-003 S	111371	Miscel	17-MAR-2006 19:21	3.0	0.09964		3		
022	076a022	SAMPLE	185540-007 S	111371	Miscel	17-MAR-2006 19:48	1.0	0.1008		3		
023	076a023	SAMPLE	185540-005 S	111371	Miscel	17-MAR-2006 20:16	1.0	0.09958		3		
024	076a024	SAMPLE	185540-001 S	111371	Miscel	17-MAR-2006 20:43	5.0	0.1002		3		
025	076a025	CCV	dsl_1000			17-MAR-2006 21:11	1.0	1.0		3	3	
026	076a026	CCV	mo_500			17-MAR-2006 21:38	1.0	1.0	2	3	2	
027	076a027	X	ccv			17-MAR-2006 22:05	1.0				3	
028	076a028	CCV	jet_250			17-MAR-2006 22:33	1.0	1.0		3	5	
029	076a029	SAMPLE	185408-001 S	111348	Water	17-MAR-2006 23:00	1.0	0.005		3		
030	076a030	SAMPLE	185408-003 S	111348	Water	17-MAR-2006 23:28	1.0	0.005		3		
031	076a031	SAMPLE	185408-004 S	111348	Water	17-MAR-2006 23:55	1.0	0.005		3		

Stds used: 1=S2871 2=S2843 3=S2885 4=S2755 5=S2432

SEQUENCE SUMMARY FOR 185381 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176109909 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 17-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	076a032	SAMPLE	185408-005 S	111348	Water	18-MAR-2006 00:22	1.0	0.005		3		
033	076a033	SAMPLE	185408-009 S	111348	Water	18-MAR-2006 00:49	1.0	0.005		3		
034	076a034	SAMPLE	185408-011 S	111348	Water	18-MAR-2006 01:17	1.0	0.005		3		
035	076a035	SAMPLE	185523-001	111387	Water	18-MAR-2006 01:44	1.0	0.005		3		
036	076a036	SAMPLE	185523-002	111387	Water	18-MAR-2006 02:11	1.0	0.005		3		
037	076a037	SAMPLE	185523-003	111387	Water	18-MAR-2006 02:39	1.0	0.005		3		
038	076a038	SAMPLE	185523-004	111387	Water	18-MAR-2006 03:06	1.0	0.005		3		
039	076a039	CCV	dsl_500			18-MAR-2006 03:34	1.0	1.0		3	1	
040	076a040	CCV	mo_500			18-MAR-2006 04:01	1.0	1.0	2	3	2	
041	076a041	X	ccv			18-MAR-2006 04:28	1.0				1	
042	076a042	BS	QC331829 S	111387	Water	18-MAR-2006 04:56	1.0	0.005		3		
043	076a043	BSD	QC331830 S	111387	Water	18-MAR-2006 05:23	1.0	0.005		3		
044	076a044	BLANK	QC331828 S	111387	Water	18-MAR-2006 05:50	1.0	0.005		3		
045	076a045	SAMPLE	185381-003 S	111387	Water	18-MAR-2006 06:17	1.0	0.005		3		
046	076a046	SAMPLE	185381-004 S	111387	Water	18-MAR-2006 06:45	1.0	0.005		3		92
047	076a047	SAMPLE	185381-005 S	111387	Water	18-MAR-2006 07:12	1.0	0.005		3		
048	076a048	SAMPLE	185381-006 S	111387	Water	18-MAR-2006 07:39	1.0	0.005		3		
049	076a049	SAMPLE	185381-007 S	111387	Water	18-MAR-2006 08:06	1.0	0.005		3		
050	076a050	SAMPLE	185381-011 S	111387	Water	18-MAR-2006 08:33	1.0	0.005		3		
051	076a051	SAMPLE	185381-012 S	111387	Water	18-MAR-2006 09:01	1.0	0.005		3		
052	076a052	X	ib			18-MAR-2006 09:28	1.0					
053	076a053	CCV	dsl_250			18-MAR-2006 09:56	1.0	1.0		3	4	
054	076a054	CCV	mo_500			18-MAR-2006 10:23	1.0	1.0	2	3	2	
055	076a055	X	ccv			18-MAR-2006 10:50	1.0				4	
056	076a056	SAMPLE	185381-013 S	111387	Water	18-MAR-2006 11:17	1.0	0.005		3		
057	076a057	SAMPLE	185381-014 S	111387	Water	18-MAR-2006 11:45	1.0	0.005	1	3		
058	076a058	SAMPLE	185381-015 S	111387	Water	18-MAR-2006 12:12	1.0	0.005		3		
059	076a059	SAMPLE	185381-016 S	111387	Water	18-MAR-2006 12:39	1.0	0.005		3		
060	076a060	X	dsl_500			18-MAR-2006 13:07	1.0	1.0	7	3	1	
061	076a061	CCV	mo_500			18-MAR-2006 13:34	1.0	1.0	2	3	2	
062	076a062	CCV	dsl_500			18-MAR-2006 14:01	1.0	1.0	7	3	1	

Stds used: 1=S2871 2=S2843 3=S2885 4=S2755 5=S2432

SEQUENCE SUMMARY FOR 185381 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116114237 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	079a001	X	primer			20-MAR-2006 07:57	1.0					
002	079a002	X	ib			20-MAR-2006 08:24	1.0					
003	079a003	CCV	mo_500			20-MAR-2006 08:52	1.0	1.0		3	1	
004	079a004	CCV	dsl_500			20-MAR-2006 09:20	1.0	1.0		3	2	
005	079a005	SAMPLE	185607-006	111437	Water	20-MAR-2006 09:54	1.0	0.005		3		
006	079a006	SAMPLE	185608-006	111437	Water	20-MAR-2006 10:22	1.0	0.005		3		
007	079a007	SAMPLE	185611-001	111434	Soil	20-MAR-2006 10:50	1.0	0.09923		3		
008	079a008	X	ib			20-MAR-2006 11:19	1.0					
009	079a009	LCS	QC332045 S	111434	Soil	20-MAR-2006 11:47	1.0	0.1002		3		
010	079a010	BS	QC332063 S	111437	Water	20-MAR-2006 12:15	1.0	0.005		3		
011	079a011	BSD	QC332064 S	111437	Water	20-MAR-2006 12:44	1.0	0.005		3		
012	079a012	BLANK	QC332062 S	111437	Water	20-MAR-2006 13:12	1.0	0.005	7	3		
013	079a013	BLANK	QC332044 S	111434	Soil	20-MAR-2006 13:40	1.0	0.101	7	3		
014	079a014	SAMPLE	185607-003	111429	Soil	20-MAR-2006 14:09	2.0	0.09964		3		
015	079a015	SAMPLE	185607-004	111429	Soil	20-MAR-2006 14:37	2.0	0.1002		3		93
016	079a016	X	dsl_1000			20-MAR-2006 15:06	1.0	1.0		3	3	
017	079a017	CCV	mo_500			20-MAR-2006 15:34	1.0	1.0		3	1	
018	079a018	CCV	dsl_1000			20-MAR-2006 16:13	1.0	1.0		3	3	
019	079a019	SAMPLE	185607-005	111429	Soil	20-MAR-2006 16:41	1.0	0.1000		3		
020	079a020	SAMPLE	185607-001	111429	Soil	20-MAR-2006 17:10	1.0	0.0998		3		
021	079a021	SAMPLE	185607-002	111429	Soil	20-MAR-2006 17:39	2.0	0.1005		3		
022	079a022	MSS	185608-001	111429	Soil	20-MAR-2006 18:07	1.0	0.1009	8	3		
023	079a023	SAMPLE	185608-003	111429	Soil	20-MAR-2006 18:36	1.0	0.09921		3		
024	079a024	X	ib			20-MAR-2006 19:05	1.0					
025	079a025	CCV	mo_500			20-MAR-2006 19:33	1.0	1.0		3	1	
026	079a026	CCV	dsl_250			20-MAR-2006 20:02	1.0	1.0	1	3	4	
027	079a027	SAMPLE	185381-014 S	111387	Water	20-MAR-2006 21:03	1.0	0.005		3		
028	079a028	SAMPLE	185414-010 S	111437	Water	20-MAR-2006 21:33	1.0	0.005		3		
029	079a029	SAMPLE	185414-009 S	111437	Water	20-MAR-2006 22:01	1.0	0.005		3		
030	079a030	SAMPLE	185414-008 S	111437	Water	20-MAR-2006 22:30	1.0	0.005		3		
031	079a031	SAMPLE	185414-007 S	111437	Water	20-MAR-2006 22:58	1.0	0.005		3		

Stds used: 1=S2843 2=S2871 3=S2885 4=S2755 5=S2964 6=S2971 7=S2845

SEQUENCE SUMMARY FOR 185381 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116114237 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	079a032	SAMPLE	185414-006 S	111437	Water	20-MAR-2006 23:26	1.0	0.005		3		
033	079a033	SAMPLE	185414-005 S	111437	Water	20-MAR-2006 23:54	1.0	0.005		3		
034	079a034	SAMPLE	185414-004 S	111437	Water	21-MAR-2006 00:22	1.0	0.005		3		
035	079a035	SAMPLE	185414-003 S	111437	Water	21-MAR-2006 00:50	1.0	0.005		3		
036	079a036	SAMPLE	185414-002 S	111437	Water	21-MAR-2006 01:18	1.0	0.005		3		
037	079a037	X	ib			21-MAR-2006 01:46	1.0					
038	079a038	CCV	mo_500			21-MAR-2006 02:14	1.0	1.0		3	1	
039	079a039	CCV	dsl_500			21-MAR-2006 02:42	1.0	1.0		3	2	
040	079a040	X	ccv			21-MAR-2006 03:10	1.0				1	
041	079a041	X	ccv			21-MAR-2006 03:38	1.0				2	
042	079a042	SAMPLE	185414-011 S	111437	Water	21-MAR-2006 04:06	1.0	0.005		3		
043	079a043	SAMPLE	185414-013 S	111437	Water	21-MAR-2006 04:33	1.0	0.005		3		
044	079a044	SAMPLE	185414-012 S	111437	Water	21-MAR-2006 05:01	1.0	0.005		3		
045	079a045	SAMPLE	185381-018 S	111387	Water	21-MAR-2006 05:29	1.0	0.005		3		
046	079a046	CCV	mo_500			21-MAR-2006 07:39	1.0	1.0		3	1	94
047	079a047	CCV	dsl_1000			21-MAR-2006 08:06	1.0	1.0		3	3	
048	079a048	X	dsl 10			21-MAR-2006 10:04	1.0				5	
049	079a049	X	dsl 10			21-MAR-2006 10:32	1.0				5	
050	079a050	SAMPLE	185613-004 S	111434	Soil	21-MAR-2006 11:36	5.0	0.09944	1	3	1:BUNKC:=5220.06	
051	079a051	SAMPLE	185385-012 S	111346	Water	21-MAR-2006 13:15	1.0	0.005	1	3		
052	079a052	SAMPLE	185385-013 S	111346	Water	21-MAR-2006 13:43	1.0	0.005	1	3		
053	079a053	SAMPLE	185385-014 S	111346	Water	21-MAR-2006 14:12	1.0	0.005	1	3		
054	079a054	SAMPLE	185381-017 S	111387	Water	21-MAR-2006 14:45	1.0	0.005		3		
055	079a055	SAMPLE	185381-019 S	111387	Water	21-MAR-2006 15:14	1.0	0.005		3		
056	079a056	X	mo_500			21-MAR-2006 16:16	1.0	1.0	6	3	6	
057	079a057	CCV	mo_500			21-MAR-2006 16:52	1.0	1.0		3	1	
058	079a058	X	dsl_1000			21-MAR-2006 17:20	1.0				3	
059	079a059	CCV	dsl_1000			21-MAR-2006 17:50	1.0	1.0		3	3	
060	079a060	X	185545-001 S	111427	Soil	21-MAR-2006 18:20	10.0	0.1009		3		
061	079a061	SAMPLE	185563-001	111427	Soil	21-MAR-2006 18:49	200.0	0.2007		3		
062	079a062	X	ib			21-MAR-2006 19:21	1.0					

Stds used: 1=S2843 2=S2871 3=S2885 4=S2755 5=S2964 6=S2971 7=S2845

SEQUENCE SUMMARY FOR 185381 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116114237 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
063	079a063	BS	QC332217 S	111477	Water	21-MAR-2006 20:06	1.0	0.005		3		
064	079a064	BSD	QC332218 S	111477	Water	21-MAR-2006 20:34	1.0	0.005		3		
065	079a065	BLANK	QC332216 S	111477	Water	21-MAR-2006 21:03	1.0	0.005	7	3		
066	079a066	SAMPLE	185463-001 S	111477	Water	21-MAR-2006 21:31	1.0	0.005		3		
067	079a067	SAMPLE	185463-002 S	111477	Water	21-MAR-2006 22:00	1.0	0.005		3		
068	079a068	SAMPLE	185456-001 S	111477	Water	21-MAR-2006 22:28	1.0	0.005		3		
069	079a069	SAMPLE	185456-002 S	111477	Water	21-MAR-2006 22:57	1.0	0.005		3		
070	079a070	SAMPLE	185456-003 S	111477	Water	21-MAR-2006 23:25	1.0	0.005		3		
071	079a071	X	ib			21-MAR-2006 23:53	1.0					
072	079a072	CCV	mo_500			22-MAR-2006 00:21	1.0	1.0		3	6	
073	079a073	CCV	dsl_500			22-MAR-2006 00:50	1.0	1.0		3	2	
074	079a074	X	ccv			22-MAR-2006 01:18	1.0				7	
075	079a075	CCV	dsl_1000			22-MAR-2006 01:46	1.0				3	
076	079a076	SAMPLE	185457-021 S	111478	Water	22-MAR-2006 02:14	1.0	0.005		3		
077	079a077	SAMPLE	185457-022 S	111478	Water	22-MAR-2006 02:42	1.0	0.005		3		95
078	079a078	SAMPLE	185457-001 S	111478	Water	22-MAR-2006 03:10	1.0	0.005		3		
079	079a079	SAMPLE	185457-002 S	111478	Water	22-MAR-2006 03:38	1.0	0.005		3		
080	079a080	MSS	185457-003 S	111478	Water	22-MAR-2006 04:06	1.0	0.005	7	3		
081	079a081	SAMPLE	185457-004 S	111478	Water	22-MAR-2006 04:34	1.0	0.005		3		
082	079a082	SAMPLE	185457-005 S	111478	Water	22-MAR-2006 05:02	1.0	0.005		3		
083	079a083	SAMPLE	185457-006 S	111478	Water	22-MAR-2006 05:30	1.0	0.005		3		
084	079a084	SAMPLE	185457-007 S	111478	Water	22-MAR-2006 05:58	1.0	0.005		3		
085	079a085	SAMPLE	185457-008 S	111478	Water	22-MAR-2006 06:26	1.0	0.005		3		
086	079a086	CCV	mo_500			22-MAR-2006 06:54	1.0	1.0		3	6	
087	079a087	CCV	dsl_1000			22-MAR-2006 07:22	1.0	1.0		3	3	
088	079a088	X	ccv			22-MAR-2006 07:49	1.0				7	
089	079a089	X	ccv			22-MAR-2006 08:18	1.0				3	
090	079a090	SAMPLE	185381-020 S	111387	Water	22-MAR-2006 09:06	1.0	0.005		3		
091	079a091	SAMPLE	185385-015 S	111346	Water	22-MAR-2006 09:34	1.0	0.005		3		
092	079a092	SAMPLE	185385-016 S	111346	Water	22-MAR-2006 10:03	1.0	0.005		3		
093	079a093	X	185385-017 S	111346	Water	22-MAR-2006 10:31	1.0					

Stds used: 1=S2843 2=S2871 3=S2885 4=S2755 5=S2964 6=S2971 7=S2845

SEQUENCE SUMMARY FOR 185381 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116114237 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
094	079a094	SAMPLE	185385-017 S	111346	Water	22-MAR-2006 11:00	1.0	0.005			3		
095	079a095	X	mo_500			22-MAR-2006 11:27	1.0	1.0	6		3	6	
096	079a096	CCV	dsl_250			22-MAR-2006 11:55	1.0	1.0	1		3	4	
097	079a097	X	mo_500			22-MAR-2006 12:24	1.0	1.0	6		3	6	7:JP8:10=138379

Stds used: 1=S2843 2=S2871 3=S2885 4=S2755 5=S2964 6=S2971 7=S2845

SEQUENCE SUMMARY FOR 185381 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176114438 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	079a001	X	Pimer			20-MAR-2006 11:18	1.0					
002	079a002	X	ib			20-MAR-2006 11:46	1.0					
003	079a003	CCV	dsl_500			20-MAR-2006 12:13	1.0	1.0		3	1	
004	079a004	CCV	mo_500			20-MAR-2006 12:40	1.0	1.0	2	3	2	
005	079a005	SAMPLE	185519-013 S	111429	Soil	20-MAR-2006 13:11	1.0	0.1001		3		
006	079a006	SAMPLE	185607-005	111429	Soil	20-MAR-2006 13:39	1.0	0.1000	1	3		
007	079a007	SAMPLE	185519-015 S	111429	Soil	20-MAR-2006 14:06	2.0	0.09978		3		
008	079a008	SAMPLE	185519-016 S	111429	Soil	20-MAR-2006 14:34	1.0	0.1003		3		
009	079a009	SAMPLE	185519-014 S	111429	Soil	20-MAR-2006 15:02	3.0	0.09962		3		
010	079a010	SAMPLE	185607-005	111429	Soil	20-MAR-2006 15:30	1.0	0.1000	1	3		
011	079a011	MSS	185608-001	111429	Soil	20-MAR-2006 15:57	1.0	0.1009	9	3		
012	079a012	SAMPLE	185608-003	111429	Soil	20-MAR-2006 16:25	1.0	0.09921	1	3		
013	079a013	X	ib			20-MAR-2006 16:53	1.0					
014	079a014	CCV	dsl_1000			20-MAR-2006 17:20	1.0	1.0		3	3	
015	079a015	CCV	mo_500			20-MAR-2006 17:48	1.0	1.0	2	3	2	97
016	079a016	CCV	jet_250			20-MAR-2006 18:26	1.0	1.0		3	4	
017	079a017	LCS	QC332017 S	111427	Soil	20-MAR-2006 18:55	1.0	0.09913		3		
018	079a018	MSS	185408-002 S	111348	Water	20-MAR-2006 19:22	1.0	0.005	6	3		
019	079a019	MSS	185408-008 S	111348	Water	20-MAR-2006 19:50	1.0	0.005	6	3		
020	079a020	MSS	185408-010 S	111348	Water	20-MAR-2006 20:17	1.0	0.005	6	3		
021	079a021	MSS	185525-002 S	111348	Water	20-MAR-2006 20:45	1.0	0.005	6	3		
022	079a022	X	ib			20-MAR-2006 21:12	1.0					
023	079a023	SAMPLE	185566-001 S	111437	Water	20-MAR-2006 21:40	1.0	0.005		3		
024	079a024	SAMPLE	185540-008 S	111427	Miscel	20-MAR-2006 22:07	1.0	0.1003		3		
025	079a025	SAMPLE	185613-004 S	111434	Soil	20-MAR-2006 22:35	1.0	0.09944	1	3	14:BUNKC:=20467.3	
026	079a026	X	ib			20-MAR-2006 23:02	1.0					
027	079a027	SAMPLE	185547-004	111427	Soil	20-MAR-2006 23:30	10.0	0.1003		3		
028	079a028	SAMPLE	185547-003	111427	Soil	20-MAR-2006 23:57	20.0	0.1000		3		
029	079a029	X	ib			21-MAR-2006 00:24	1.0					
030	079a030	CCV	dsl_250			21-MAR-2006 00:52	1.0	1.0		3	5	
031	079a031	CCV	mo_500			21-MAR-2006 01:19	1.0	1.0	2	3	2	

Stds used: 1=S2871 2=S2843 3=S2885 4=S2432 5=S2755 6=S2971

SEQUENCE SUMMARY FOR 185381 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176114438 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	079a032	X	ccv			21-MAR-2006 01:46	1.0					5	
033	079a033	CCV	jet_250			21-MAR-2006 02:13	1.0	1.0			3	4	
034	079a034	MSS	185524-006	111427	Soil	21-MAR-2006 02:41	1.0	0.1001	8		3		
035	079a035	SAMPLE	185592-003	111429	Soil	21-MAR-2006 03:08	1.0	0.1009			3		
036	079a036	SAMPLE	185592-004	111429	Soil	21-MAR-2006 03:36	1.0	0.1003			3		
037	079a037	SAMPLE	185592-001	111429	Soil	21-MAR-2006 04:03	50.0	0.1006			3	2:BUNKC:=5647.70	
038	079a038	X	ib			21-MAR-2006 04:30	1.0						
039	079a039	SAMPLE	184983-002 S	110760	Miscel	21-MAR-2006 04:58	10.0	0.1983			3	2:BUNKC:=6480.44	
040	079a040	SAMPLE	185545-002 S	111427	Soil	21-MAR-2006 05:25	1.0	0.1001			3		
041	079a041	SAMPLE	185545-003 S	111427	Soil	21-MAR-2006 05:52	1.0	0.1001	1	1	3		
042	079a042	SAMPLE	185545-001 S	111427	Soil	21-MAR-2006 06:20	1.0	0.1009	3	1	3	20:BUNKC:=30841.3	
043	079a043	X	ib			21-MAR-2006 06:47	1.0						
044	079a044	SAMPLE	185545-004 S	111427	Soil	21-MAR-2006 07:14	1.0	0.09962			3		
045	079a045	SAMPLE	185563-001	111427	Soil	21-MAR-2006 07:41	50.0	0.2007	2		3	7:BUNKC:=10565.7	
046	079a046	X	ib			21-MAR-2006 08:08	1.0						
047	079a047	CCV	dsl_500			21-MAR-2006 08:36	1.0	1.0			3	1	
048	079a048	X	mo_500			21-MAR-2006 09:03	1.0	1.0			3	2	
049	079a049	X	ccv			21-MAR-2006 09:30	1.0					1	
050	079a050	CCV	jet_250			21-MAR-2006 09:57	1.0	1.0			3	4	
051	079a051	CCV	mo_500			21-MAR-2006 10:25	1.0	1.0	2		3	2	
052	079a052	SAMPLE	185631-014 S	111434	Soil	21-MAR-2006 11:49	1.0	0.1003			3		
053	079a053	SAMPLE	185631-015 S	111434	Soil	21-MAR-2006 12:17	1.0	0.1002	1		3	8:JP8:10=25821.0	
054	079a054	SAMPLE	185631-001 S	111434	Soil	21-MAR-2006 12:44	1.0	0.1000			3		
055	079a055	SAMPLE	185631-007 S	111434	Soil	21-MAR-2006 13:12	1.0	0.0996			3		
056	079a056	SAMPLE	185385-015 S	111346	Water	21-MAR-2006 13:39	1.0	0.005			3		
057	079a057	SAMPLE	185385-017 S	111346	Water	21-MAR-2006 14:07	1.0	0.005			3		
058	079a058	SAMPLE	185385-016 S	111346	Water	21-MAR-2006 14:35	1.0	0.005			3		
059	079a059	SAMPLE	185381-020 S	111387	Water	21-MAR-2006 15:02	1.0	0.005			3		
060	079a060	SAMPLE	185631-010 S	111434	Soil	21-MAR-2006 15:30	1.0	0.09921			3	1:JP8:10=3738.52	
061	079a061	X	dsl_1000			21-MAR-2006 16:17	1.0	1.0			3	3	
062	079a062	CCV	mo_500			21-MAR-2006 16:44	1.0	1.0			3	6	

Stds used: 1=S2871 2=S2843 3=S2885 4=S2432 5=S2755 6=S2971

SEQUENCE SUMMARY FOR 185381 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176114438 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
063	079a063	MSS	185520-001 S	111434	Soil	21-MAR-2006 17:22	1.0	0.0998	6	3		
064	079a064	MS	QC332046 S	111434	Soil	21-MAR-2006 17:50	1.0	0.0997		3		
065	079a065	MSD	QC332047 S	111434	Soil	21-MAR-2006 18:18	1.0	0.09976		3		
066	079a066	SAMPLE	185600-005	111434	Soil	21-MAR-2006 18:45	1.0	0.1001		3		
067	079a067	SAMPLE	185600-003	111434	Soil	21-MAR-2006 19:13	1.0	0.1003		3		
068	079a068	SAMPLE	185456-004 S	111477	Water	21-MAR-2006 19:41	1.0	0.005		3		
069	079a069	SAMPLE	185456-005 S	111477	Water	21-MAR-2006 20:09	1.0	0.005		3		
070	079a070	SAMPLE	185456-006 S	111477	Water	21-MAR-2006 20:36	1.0	0.005		3		
071	079a071	SAMPLE	185456-007 S	111477	Water	21-MAR-2006 21:04	1.0	0.005		3		
072	079a072	SAMPLE	185456-008 S	111477	Water	21-MAR-2006 21:32	1.0	0.005		3		
073	079a073	X	ib			21-MAR-2006 21:59	1.0					
074	079a074	CCV	dsl_250			21-MAR-2006 22:27	1.0	1.0		3	5	
075	079a075	CCV	mo_500			21-MAR-2006 22:54	1.0	1.0		3	6	
076	079a076	X	ccv			21-MAR-2006 23:22	1.0				5	
077	079a077	LCS	QC332220 S	111478	Water	21-MAR-2006 23:49	1.0	0.005		3		66
078	079a078	BLANK	QC332219 S	111478	Water	22-MAR-2006 00:16	1.0	0.005	7	3		
079	079a079	SAMPLE	185456-009 S	111477	Water	22-MAR-2006 00:44	1.0	0.005		3		
080	079a080	SAMPLE	185580-003	111477	Water	22-MAR-2006 01:11	1.0	0.005		3		
081	079a081	SAMPLE	185580-004	111477	Water	22-MAR-2006 01:38	1.0	0.005		3		
082	079a082	SAMPLE	185580-005	111477	Water	22-MAR-2006 02:05	1.0	0.005		3		
083	079a083	SAMPLE	185580-006	111477	Water	22-MAR-2006 02:33	1.0	0.005		3		
084	079a084	SAMPLE	185580-007	111477	Water	22-MAR-2006 03:00	1.0	0.005		3		
085	079a085	SAMPLE	185580-008	111477	Water	22-MAR-2006 03:28	1.0	0.005		3		
086	079a086	SAMPLE	185580-009	111477	Water	22-MAR-2006 03:55	1.0	0.005		3		
087	079a087	X	ib			22-MAR-2006 04:23	1.0					
088	079a088	CCV	dsl_500			22-MAR-2006 04:50	1.0	1.0		3	1	
089	079a089	CCV	mo_500			22-MAR-2006 05:18	1.0	1.0	1	3	6	
090	079a090	X	xccv			22-MAR-2006 05:45	1.0				1	
091	079a091	CCV	jet_250			22-MAR-2006 07:26	1.0	1.0		3	4	
092	079a092	MSS	185457-009 S	111478	Water	22-MAR-2006 07:53	1.0	0.005	6	3		
093	079a093	SAMPLE	185457-010 S	111478	Water	22-MAR-2006 08:40	1.0	0.005		3		

Stds used: 1=S2871 2=S2843 3=S2885 4=S2432 5=S2755 6=S2971

SEQUENCE SUMMARY FOR 185381 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176114438 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum		Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
094	079a094	SAMPLE	185545-004	S	111427	Soil	22-MAR-2006 09:07	1.0	0.09962			3		
095	079a095	SAMPLE	185545-003	S	111427	Soil	22-MAR-2006 09:35	1.0	0.1001		1	3	2:BUNKC:=6790.53	
096	079a096	SAMPLE	185545-001	S	111427	Soil	22-MAR-2006 10:02	10.0	0.1009			3		
097	079a097	SAMPLE	185545-003		111427	Soil	22-MAR-2006 10:31	1.0						
098	079a098	X	ib				22-MAR-2006 11:05	1.0						
099	079a099	SAMPLE	185456-004	S	111477	Water	22-MAR-2006 11:32	1.0	0.005			3		
100	079a100	SAMPLE	185456-005	S	111477	Water	22-MAR-2006 11:59	1.0	0.005			3		
101	079a101	SAMPLE	185600-005		111434	Soil	22-MAR-2006 12:26	1.0	0.1001			3		

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Stds used: 1=S2871 2=S2843 3=S2885 4=S2432 5=S2755 6=S2971

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185381 TEHM Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	MO:2	HXCS	
185381-003	GC17A	03/18/06 06:17	1.0	+	+	+	
185381-004	GC17A	03/18/06 06:45	1.0	+	+	+	
185381-005	GC17A	03/18/06 07:12	1.0	+	+	+	
185381-006	GC17A	03/18/06 07:39	1.0	+	+	+	
185381-007	GC17A	03/18/06 08:06	1.0	+	+	+	
185381-011	GC17A	03/18/06 08:33	1.0	+	+	+	
185381-012	GC17A	03/18/06 09:01	1.0	+	+	+	
185381-013	GC17A	03/18/06 11:17	1.0	+	+	+	
185381-014	GC17A	03/18/06 11:45	1.0				
185381-014	GC11A	03/20/06 21:03	1.0	+	+	+	
185381-015	GC17A	03/18/06 12:12	1.0	+	+	+	
185381-016	GC17A	03/18/06 12:39	1.0	+	+	+	
185381-017	GC13B	03/18/06 12:18	1.0				
185381-017	GC11A	03/21/06 14:45	1.0	+	+	+	
185381-018	GC13B	03/18/06 12:46	1.0				
185381-018	GC11A	03/21/06 05:29	1.0	+	+	+	
185381-019	GC13B	03/18/06 13:15	1.0				
185381-019	GC11A	03/21/06 15:14	1.0	+	+	+	
185381-020	GC17A	03/21/06 15:02	1.0		+	+	
185381-020	GC11A	03/22/06 09:06	1.0	+			
QC331828	GC17A	03/18/06 05:50	1.0	+	+	+	
QC331829	GC17A	03/18/06 04:56	1.0	+		+	
QC331830	GC17A	03/18/06 05:23	1.0	+		+	

Curtis & Tompkins Laboratories . Sample Preparation Summary 17-MAR-2006 14:10

Batch Number : 111387
Date Extracted: 16-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : TEHM
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2903A
Spike #2 ID : S2826C
Spike #3 ID :
SOP Version :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185381-003		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185381-004		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	5	.5	0		TEHM	3630C	
185381-005		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185381-006		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185381-007		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185381-011		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185381-012		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185381-013		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185381-014		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185381-015		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185381-016		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185381-017		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185381-018		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185381-019		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185381-020		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185523-001		URS Corporation	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM		
185523-002		URS Corporation	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM		
185523-003		URS Corporation	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM		
185523-004		URS Corporation	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM		
QC331828	BLANK		Water	500	mL	2.5	0.005000	1		.5	0		TEHM	3630C	
QC331829	BS		Water	500	mL	2.5	0.005000	1		.5	.5		TEHM	3630C	
QC331830	BSD		Water	500	mL	2.5	0.005000	1		.5	.5		TEHM	3630C	

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Prep Chemist: Jessie Mee

Reviewed By: [signature] Date: 3/19/06

Relinquished By: [signature]

Received By: Jennifer Gorgar Date: 3/21/06

rtis & Tompkins, Ltd

TEH WATER PREP LOG

BK2279

Page 19

MS Batch No: 111387
MS Analysis: TEHM
Extracted by: JOM
ate Extracted: 16 Mar 06

Extraction Method:
☐ mod. EPA 3510 sep. funnel
☒ mod. EPA 3520 cont. L/L
☐ _____

Cleanup Method (if needed):
☒ EPA 3630 Silica Gel
☐ Other _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
105381-003 J	500	6	2.5	X	
04 G		5			
05 J		6			
06 J					
07 G					
11 J					
12 L					
13					
14					
15 J					
16					
17					
18					
19 N					
20 N					
105523-001 I					
02					
03					
04					
MB QC331828		NA		X	
BS 29					
BSD 30					

3/17/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.5 mL of TEH_SURR was added to all samples	S2903A	JOM 3/16/06
0.5 mL of TEH_SP was added to all spikes	S2826C	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	JTBA49034	
☒ Samples were continually extracted about 450 mL of CH_2Cl_2	EM46014	
Extraction Start Time:	1215	
Extraction End Time:	0615	DLM 3/17/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	N/A	SFL 3/17/06
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM45118532	
Concentrated to volumes as noted above	✓	

3/16/06
Extraction Chemist Date

Contined from Page ___
Continued on Page ___

3/19/06
Reviewed by Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: SFL
Cleanup Date: 3/17/06

Benchbook # **BK 2272**
Page 87

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
186381-003	111387	1.0	1.0	
-004				
-005				
-006				
-007				
-011				
-012				
-013				
-014				
-015				
-016				
-017				
-018				
-019				
-020				
MB QC 331828				
BS 29				
BSD 30				

3/17/06

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ____ g columns	N/A	CFL 3/17/06
☑ Extracts were cleaned up using 1.0 g cartridges	CP7028	
Extracts were eluted with 4.0 mL CH_2Cl_2	EM4004	
Concentrated to volumes as noted above		

3/17/06
Extraction Chemist / Date

Continued ~~from~~ page ____
Continued on page ____

3/19/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water
As of 03/31/06

Analyte	Units	GC11A	GC13B	GC15B	GC17A
JP-5 C10-C16	ug/L	17	16	7.9	5.4
Jet Fuel A C10-C16	ug/L	14	30	24	33
Diesel C10-C20	ug/L		16	13	19
Diesel C10-C22	ug/L	21	18	19	27
Diesel C10-C28	ug/L	18	11	22	37
Diesel C10-C24	ug/L	21	15	18	33
Diesel C12-C24	ug/L	20	13	20	33
Diesel C12-C32	ug/L	22	14	25	23
Diesel C12-C36	ug/L	13	17		
Diesel C12-C28	ug/L		31		
Diesel C12-C22	ug/L	19	17	20	25
Motor Oil C20-C36	ug/L	40	50	29	53
Motor Oil C28-C36	ug/L	42	55	33	76
Motor Oil C24-C36	ug/L	42	55	33	76
Motor Oil C22-C32	ug/L	36	51	21	50
Motor Oil C22-C36	ug/L	41	52	30	51
Hexacosane	ug/L	4.5	3.4	4.2	3.1

VOLATILE ORGANIC COMPOUNDS

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	1047MW101	Batch#:	111125
Lab ID:	185381-001	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	104	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	104	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DUP0307062A	Batch#:	111125
Lab ID:	185381-002	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	109	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	108	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	1065PZ1B	Batch#:	111125
Lab ID:	185381-003	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	108	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	106	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	LF5GW104	Batch#:	111125
Lab ID:	185381-011	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	109	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	105	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DUP0307063B	Batch#:	111125
Lab ID:	185381-012	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	109	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	106	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	1349MW102	Batch#:	111125
Lab ID:	185381-013	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	112	76-114
Toluene-d8	102	88-110
Bromofluorobenzene	105	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DUP0307063C	Batch#:	111125
Lab ID:	185381-014	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	110	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	106	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	600GW108	Batch#:	111125
Lab ID:	185381-019	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	108	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	107	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DUP0307061B	Batch#:	111125
Lab ID:	185381-020	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	111	76-114
Toluene-d8	102	88-110
Bromofluorobenzene	107	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	TB0307061B	Batch#:	111125
Lab ID:	185381-021	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-120
1,2-Dichloroethane-d4	111	76-114
Toluene-d8	102	88-110
Bromofluorobenzene	107	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC330714	Batch#:	111125
Matrix:	Water	Analyzed:	03/09/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	105	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	104	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	111125
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Type: BS Lab ID: QC330712

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	27.42	110	65-135
Benzene	25.00	24.75	99	65-135
Trichloroethene	25.00	26.05	104	65-135
Toluene	25.00	24.90	100	65-135
Chlorobenzene	25.00	24.63	99	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	105	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	100	86-115

Type: BSD Lab ID: QC330713

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	27.95	112	65-135	2	35
Benzene	25.00	25.50	102	65-135	3	35
Trichloroethene	25.00	26.79	107	65-135	3	35
Toluene	25.00	26.15	105	65-135	5	35
Chlorobenzene	25.00	25.98	104	65-135	5	35

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-120
1,2-Dichloroethane-d4	100	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	99	86-115

RPD= Relative Percent Difference

ICAL

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\020106.b\HB107.D

Date : 01-FEB-2006 14:11

Client ID: bfb tune std

Instrument: MSVOA08.i

Sample Info: BFB,S2327

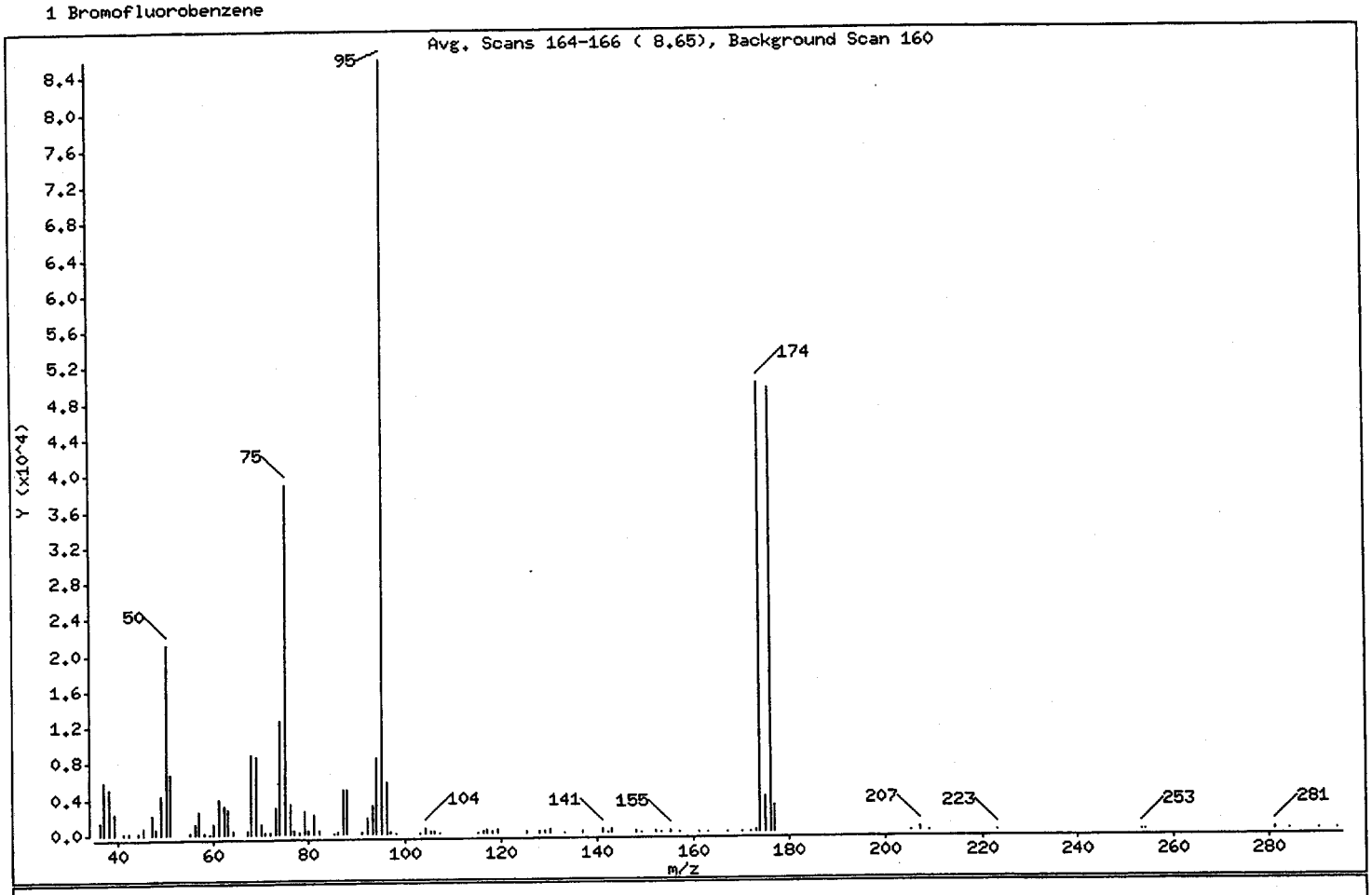
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.65
75	30.00 - 60.00% of mass 95	45.32
96	5.00 - 9.00% of mass 95	6.71
173	Less than 2.00% of mass 174	0.17 (0.29)
174	50.00 - 99.99% of mass 95	58.22
175	5.00 - 9.00% of mass 174	4.51 (7.74)
176	95.01 - 100.99% of mass 174	57.53 (98.81)
177	5.00 - 9.00% of mass 176	3.50 (6.09)

LW 2-1-06

a 020206

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\030906.b\HC902.D

Date : 09-MAR-2006 08:34

Client ID: bfb tune std

Instrument: MSVOA08.i

Sample Info: BFB,S2327

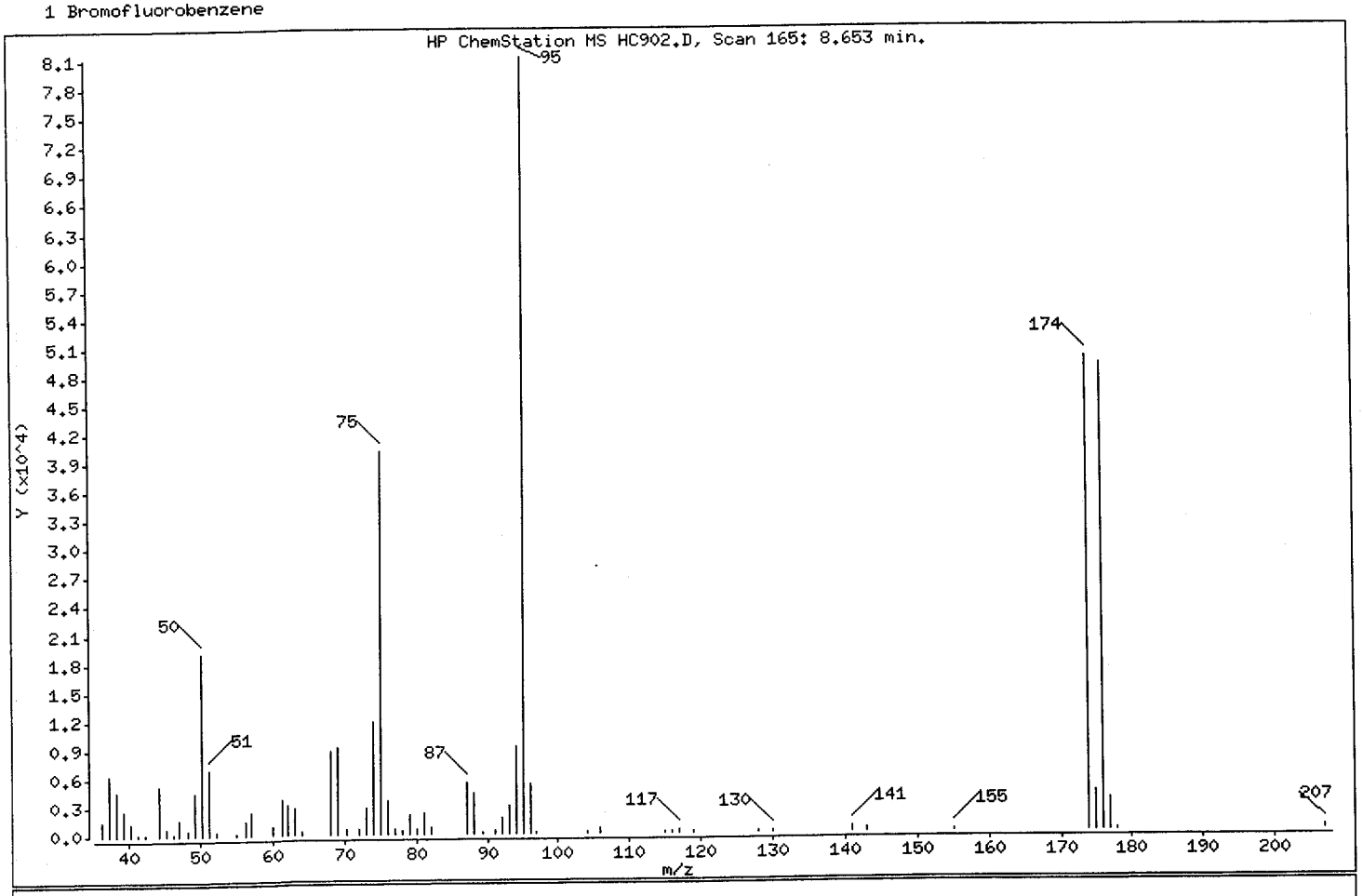
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.36
75	30.00 - 60.00% of mass 95	49.51
96	5.00 - 9.00% of mass 95	6.45
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	61.04
175	5.00 - 9.00% of mass 174	5.11 (8.38)
176	95.01 - 100.99% of mass 174	60.17 (98.56)
177	5.00 - 9.00% of mass 176	4.12 (6.85)

LW 3-9-06

3/10/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 8260B

Inst : MSVOA08 Name : 826GOX8
Calnum : 476046588001 Date : 01-FEB-2006 15:57 Type : WATER Inj Vol: 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	hb110	476046588010	1.0/0.5 PPB	01-FEB-2006 15:57	S2349 (1000000X), S2552 (500000X), S2028 (1000000X), S2284 (5000X)
L2	hb111	476046588011	2 PPB	01-FEB-2006 16:34	S2349 (250000X), S2552 (250000X), S2028 (500000X), S2284 (5000X)
L3	hb112	476046588012	5 PPB	01-FEB-2006 17:10	S2349 (100000X), S2552 (100000X), S2028 (200000X), S2284 (5000X)
L4	hb113	476046588013	10 PPB	01-FEB-2006 17:47	S2349 (50000X), S2552 (50000X), S2028 (100000X), S2284 (5000X)
L5	hb114	476046588014	20 PPB	01-FEB-2006 18:24	S2349 (25000X), S2552 (25000X), S2028 (50000X), S2284 (5000X)
L6	hb115	476046588015	50 PPB	01-FEB-2006 19:01	S2349 (10000X), S2552 (10000X), S2028 (20000X), S2284 (5000X)
L7	hb116	476046588016	75 PPB	01-FEB-2006 19:39	S2349 (6667X), S2552 (6667X), S2028 (13330X), S2284 (5000X)
L8	hb117	476046588017	100 PPB	01-FEB-2006 20:16	S2349 (5000X), S2552 (5000X), S2028 (10000X), S2284 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Freon 12	0.4151m	0.4864m	0.5409m	0.6541	0.6818	0.6644	0.6143		LINR	R	-0.14708	1.583834		ug/L	0.5796	0.997	0.050	0.99	15	
Chloromethane	1.1138m	0.9813m	0.9454m	0.9524	0.9198	0.8396	0.7439	0.7086	AVRG	R		1.110360		ug/L	0.9006	15	0.10	0.99	15	
Vinyl Chloride	0.6240m	0.6235m	0.6467m	0.7372	0.7211	0.7003	0.6363	0.6098	AVRG	R		1.509729		ug/L	0.6624	7	0.050	0.99	15	
Bromomethane	0.2005m	0.1667m	0.2456m	0.2780m	0.2834m	0.3154	0.3227		QUAD	R	0.825044	3.330394	-0.01132	ug/L	0.2589	1.000	0.050	0.99	15	
Chloroethane	0.4178m	0.4212m	0.3688m	0.4309m	0.4142m	0.3899	0.3490	0.3338	AVRG	R		2.559573		ug/L	0.3907	9	0.050	0.99	15	
Trichlorofluoromethane	0.3799	0.4065	0.4641	0.5536	0.5569	0.5281	0.4977	0.4728	AVRG	R		2.072747		ug/L	0.4825	13	0.050	0.99	15	
Acetone			0.3077	0.3039	0.3072	0.3220	0.2828	0.2890	AVRG	R		3.309947		ug/L	0.3021	5	0.050	0.99	15	
Freon 113	0.1178m	0.1580	0.2916	0.4237	0.4352	0.4515	0.4332		LINR	R	0.777856	2.248929		ug/L	0.3302	0.999	0.050	0.99	15	
1,1-Dichloroethene	0.2897m	0.2779	0.3330	0.4181	0.4044	0.4116	0.3879	0.3575	AVRG	R		2.777622		ug/L	0.3600	15	0.050	0.99	15	
Methylene Chloride		0.7334m	0.6342	0.5835	0.5733	0.5423	0.5051	0.5046	AVRG	R		1.717212		ug/L	0.5823	14	0.050	0.99	15	
Carbon Disulfide	1.5006	1.5184	1.7653	2.0342	2.0276	1.9857	1.8412	1.7034	AVRG	R		0.556466		ug/L	1.7971	12	0.050	0.99	15	
MTBE	1.4171	1.4923	1.5365	1.5516	1.5167	1.4561	1.3333	1.3183	AVRG	R		0.688354		ug/L	1.4527	6	0.050	0.99	15	
trans-1,2-Dichloroethene	0.4628	0.4006	0.4450	0.4870	0.4752	0.4722	0.4570	0.4347	AVRG	R		2.201178		ug/L	0.4543	6	0.050	0.99	15	
Vinyl Acetate	1.5328	1.6819	1.7830	1.9063	1.8890	1.6148	1.4593	1.2739	AVRG	R		0.608787		ug/L	1.6426	13	0.050	0.99	15	
1,1-Dichloroethane	0.9496	0.9983	1.0666	1.0794	1.0409	1.0274	0.9539	0.8888	AVRG	R		0.999388		ug/L	1.0006	7	0.10	0.99	15	
2-Butanone		0.4880	0.4913	0.4731	0.4622	0.4595	0.4176	0.4111	AVRG	R		2.185554		ug/L	0.4575	7	0.050	0.99	15	
2,2-Dichloropropane	0.5122	0.5059	0.6010	0.6861	0.6552	0.6356	0.5833	0.5041	AVRG	R		1.708150		ug/L	0.5854	12	0.050	0.99	15	
cis-1,2-Dichloroethene	0.5183	0.4752	0.4877	0.5292	0.5163	0.5092	0.4866	0.4712	AVRG	R		2.003118		ug/L	0.4992	4	0.050	0.99	15	
Chloroform	0.8148	0.8255	0.8782	0.8968	0.8833	0.8371	0.7744	0.7315	AVRG	R		1.204527		ug/L	0.8302	7	0.050	0.99	15	
Bromochloromethane	0.2142	0.2156	0.2399	0.2331	0.2382	0.2343	0.2214	0.2196	AVRG	R		4.404502		ug/L	0.2270	5	0.050	0.99	15	
1,1,1-Trichloroethane	0.4001	0.4519	0.5032	0.6053	0.5896	0.5773	0.5547	0.4988	AVRG	R		1.913520		ug/L	0.5226	14	0.050	0.99	15	
1,1-Dichloropropene	0.2447	0.2083	0.2547	0.3290	0.3162	0.3280	0.3070		LINR	R	0.125587	3.178137		ug/L	0.2840	0.998	0.050	0.99	15	
Carbon Tetrachloride	0.1425	0.1255	0.1684	0.2209	0.2111	0.2212	0.2119		LINR	R	0.382218	4.625812		ug/L	0.1859	0.999	0.050	0.99	15	
1,2-Dichloroethane	0.3290	0.3566	0.3730	0.3832	0.3600	0.3471	0.3184	0.3089	AVRG	R		2.881620		ug/L	0.3470	8	0.050	0.99	15	
Benzene	0.8564	0.8089	0.8496	0.9091	0.8606	0.8489	0.8112	0.7458	AVRG	R		1.195760		ug/L	0.8363	6	0.050	0.99	15	
Trichloroethene	0.1627	0.1732	0.1965	0.2227	0.2156	0.2238	0.2183	0.2074	AVRG	R		4.937778		ug/L	0.2025	11	0.050	0.99	15	

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476046588001

ICAL-OK ICV- Freon 12 ✓, Cyclohexanone ✓ CVSACE Chloromethane ✓)

LW 2-2-06

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
1,2-Dichloropropane	0.2831	0.2886	0.2996	0.3029	0.2842	0.2919	0.2729	0.2684	AVRG	R		3.490764		ug/L	0.2865	4	0.050	0.99	15	
Bromodichloromethane	0.2953	0.3052	0.3071	0.3218	0.3140	0.3067	0.2885	0.2923	AVRG	R		3.290899		ug/L	0.3039	4	0.050	0.99	15	
Dibromomethane	0.1424	0.1637	0.1655	0.1683	0.1628	0.1612	0.1518	0.1548	AVRG	R		6.296610		ug/L	0.1588	5	0.050	0.99	15	
2-Chloroethylvinylether	0.0286	0.0397	0.0587	0.0674	0.0874	0.0965	0.0966	0.1118	QUAD	R	1.104955	11.74411	-0.25468	ug/L	0.0733	0.999	0.050	0.99	15	
4-Methyl-2-Pentanone		0.3873	0.4538	0.4258	0.4349	0.4090	0.3915	0.3949	AVRG	R		2.416124		ug/L	0.4139	6	0.050	0.99	15	
Tetramethyl THF	0.7111	0.7195	0.7534	0.7676	0.7541	0.6961	0.6362	0.6192	AVRG	R		1.414150		ug/L	0.7071	8	0.050	0.99	15	
cis-1,3-Dichloropropene	0.3819	0.3876	0.4034	0.4195	0.4083	0.3952	0.3796	0.3739	AVRG	R		2.540201		ug/L	0.3937	4	0.050	0.99	15	
Toluene	0.4245	0.4067	0.4255	0.4699	0.4793	0.4874	0.4630	0.4407	AVRG	R		2.224154		ug/L	0.4496	7	0.050	0.99	15	
trans-1,3-Dichloropropene	0.3598	0.3456	0.3725	0.3922	0.3717	0.3707	0.3424	0.3411	AVRG	R		2.762469		ug/L	0.3620	5	0.050	0.99	15	
1,1,2-Trichloroethane	0.1290	0.1162	0.1201	0.1208	0.1211	0.1220	0.1153	0.1152	AVRG	R		8.335518		ug/L	0.1200	4	0.050	0.99	15	
2-Hexanone		0.3203	0.3488	0.3271	0.3545	0.3556	0.3197	0.3266	AVRG	R		2.975441		ug/L	0.3361	5	0.050	0.99	15	
1,3-Dichloropropane	0.4389	0.4620	0.4726	0.4827	0.4706	0.4683	0.4380	0.4251	AVRG	R		2.186803		ug/L	0.4573	4	0.050	0.99	15	
Tetrachloroethene	0.1024	0.1086	0.1325	0.1746	0.1691	0.1910	0.1890	0.1735	LINR	R	0.397786	5.502124		ug/L	0.1551	0.996	0.050	0.99	15	
Dibromochloromethane	0.1987	0.2100	0.2161	0.2254	0.2253	0.2312	0.2229	0.2249	AVRG	R		4.559602		ug/L	0.2193	5	0.050	0.99	15	
1,2-Dibromoethane	0.2001	0.2008	0.2119	0.2211	0.2157	0.2180	0.2138	0.2124	AVRG	R		4.723125		ug/L	0.2117	4	0.050	0.99	15	
Chlorobenzene	0.5567	0.5160	0.5276	0.5654	0.5698	0.5729	0.5488	0.5289	AVRG	R		1.823986		ug/L	0.5482	4	0.30	0.99	15	
1,1,1,2-Tetrachloroethane	0.1605	0.1693	0.1869	0.1887	0.1896	0.2002	0.1896	0.1895	AVRG	R		5.426352		ug/L	0.1843	7	0.050	0.99	15	
Ethylbenzene	0.9026	0.8113	0.8857	0.9985	0.9991	1.0216	0.9315	0.8607	AVRG	R		1.079459		ug/L	0.9264	8	0.050	0.99	15	
m,p-Xylenes	0.2767	0.2810	0.3029	0.3456	0.3529	0.3666	0.3329	0.3116	AVRG	R		3.112625		ug/L	0.3213	10	0.050	0.99	15	
o-Xylene	0.2912	0.2939	0.3043	0.3348	0.3390	0.3596	0.3342	0.3174	AVRG	R		3.107514		ug/L	0.3218	8	0.050	0.99	15	
Styrene	0.5548	0.5275	0.5636	0.6055	0.6189	0.6352	0.5876	0.5647	AVRG	R		1.717548		ug/L	0.5822	6	0.050	0.99	15	
Bromoform	0.1688	0.1316	0.1365	0.1390	0.1418	0.1504	0.1438	0.1479	AVRG	R		6.897647		ug/L	0.1450	8	0.10	0.99	15	
Isopropylbenzene	1.5438	1.4555	1.6073	2.0268	1.9776	2.0193	1.9027	1.6939	AVRG	R		0.562316		ug/L	1.7784	13	0.050	0.99	15	
1,1,2,2-Tetrachloroethane	0.9032	0.8304	0.8962	0.9078	0.8967	0.8572	0.8192	0.7941	AVRG	R		1.158629		ug/L	0.8631	5	0.30	0.99	15	
1,2,3-Trichloropropane	0.1668	0.1926	0.2120	0.2073	0.2063	0.2019	0.1926	0.1905	AVRG	R		5.095546		ug/L	0.1962	7	0.050	0.99	15	
Propylbenzene	2.0577	1.8904	2.2141	2.6620	2.6527	2.5749	2.3658	2.0471	AVRG	R		0.433261		ug/L	2.3081	13	0.050	0.99	15	
Bromobenzene	0.4531	0.4099	0.4353	0.4517	0.4577	0.4711	0.4550	0.4423	AVRG	R		2.237073		ug/L	0.4470	4	0.050	0.99	15	
1,3,5-Trimethylbenzene	1.2777	1.2852	1.3139	1.6063	1.5918	1.6205	1.4605	1.3280	AVRG	R		0.696621		ug/L	1.4355	11	0.050	0.99	15	
2-Chlorotoluene	1.7862	1.5835	1.6041	1.7827	1.7598	1.7075	1.5311	1.3994	AVRG	R		0.608172		ug/L	1.6443	8	0.050	0.99	15	
4-Chlorotoluene	1.6456	1.4988	1.5292	1.6648	1.6162	1.6258	1.5251	1.4182	AVRG	R		0.638789		ug/L	1.5655	5	0.050	0.99	15	
tert-Butylbenzene	0.8774	0.8388	1.0060	1.2841	1.2444	1.3217	1.2677		LINR	R	0.450397	0.773405		ug/L	1.1200	0.999	0.050	0.99	15	
1,2,4-Trimethylbenzene	1.4339	1.3416	1.4258	1.6135	1.5924	1.5935	1.5202	1.4123	AVRG	R		0.670398		ug/L	1.4917	7	0.050	0.99	15	
sec-Butylbenzene	1.2475	1.3272	1.6220	2.1791	2.1613	2.2313	2.1074		LINR	R	0.327947	0.462987		ug/L	1.8394	0.998	0.050	0.99	15	
para-Isopropyl Toluene	1.0840	1.0360	1.2061	1.5480	1.5565	1.6336	1.5342		LINR	R	0.356802	0.634935		ug/L	1.3712	0.998	0.050	0.99	15	
1,3-Dichlorobenzene	0.8091	0.7340	0.8052	0.8442	0.8505	0.8577	0.8387	0.8175	AVRG	R		1.220070		ug/L	0.8196	5	0.050	0.99	15	
1,4-Dichlorobenzene	0.7822	0.8183	0.8098	0.9145	0.8748	0.8893	0.8767	0.8502	AVRG	R		1.173746		ug/L	0.8520	5	0.050	0.99	15	
n-Butylbenzene	1.0807	1.0327	1.2935	1.7274	1.6448	1.6976	1.6096		LINR	R	0.207835	0.608073		ug/L	1.4409	0.999	0.050	0.99	15	
1,2-Dichlorobenzene	0.7369	0.7380	0.7629	0.8303	0.8134	0.8229	0.8021	0.7916	AVRG	R		1.270222		ug/L	0.7873	5	0.050	0.99	15	
1,2-Dibromo-3-Chloropropane	0.1732	0.1755	0.1583	0.1618	0.1603	0.1554	0.1438	0.1452	AVRG	R		6.281555		ug/L	0.1592	7	0.050	0.99	15	
1,2,4-Trichlorobenzene	0.3325	0.3446	0.3744	0.4148	0.4141	0.4276	0.4232	0.4135	AVRG	R		2.544061		ug/L	0.3931	10	0.050	0.99	15	
Hexachlorobutadiene	0.0550	0.0680	0.0965	0.1488	0.1496	0.1632	0.1604	0.1413	LINR	R	0.220488	6.609546		ug/L	0.1229	0.992	0.050	0.99	15	

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Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Naphthalene	0.9422	0.9239	1.0503	1.1446	1.1383	1.1668	1.1398	1.1973	AVRG	R		0.919202		ug/L	1.0879	10	0.050	0.99	15	
1,2,3-Trichlorobenzene	0.3231	0.3429	0.3624	0.4014	0.4064	0.4080	0.4047	0.4118	AVRG	R		2.613631		ug/L	0.3826	9	0.050	0.99	15	
tert-Butyl Alcohol (TBA)	0.0639	0.0587	0.0634	0.0624	0.0622	0.0598	0.0547	0.0567	AVRG	R		16.60685		ug/L	0.0602	6	0.005	0.99	15	
Isopropyl Ether (DIPE)	2.4625	2.6487	2.7054	2.7350	2.6450	2.4987	2.2193	2.1070	AVRG	R		0.399572		ug/L	2.5027	9	0.050	0.99	15	
Ethyl tert-Butyl Ether (ETBE)	1.5816	1.6753	1.7529	1.7571	1.7211	1.6247	1.4924	1.4174	AVRG	R		0.614319		ug/L	1.6278	8	0.050	0.99	15	
Methyl tert-Amyl Ether (TAME)	0.7175	0.7019	0.7517	0.7718	0.7323	0.7051	0.6665	0.6303	AVRG	R		1.409185		ug/L	0.7096	6	0.050	0.99	15	
Cyclohexanone		0.1549	0.1132	0.1172	0.1123	0.1383	0.1222	0.1220	AVRG	R		7.952449		ug/L	0.1257	12	0.005	0.99	15	
Ethanol		0.0100	0.0109	0.0108	0.0111	0.0110	0.0098	0.0102	AVRG	R		94.87108		ug/L	0.0105	5	0.0005	0.99	15	
Isopropanol		0.0553	0.0544	0.0546	0.0553	0.0542	0.0488	0.0511	AVRG	R		18.72995		ug/L	0.0534	5	0.005	0.99	15	
Tetrahydrofuran		0.2651	0.2777	0.2672	0.2636	0.2341	0.2009	0.1890	AVRG	R		4.123493		ug/L	0.2425	15	0.005	0.99	15	
Dibromofluoromethane	0.7895	0.7897	0.7962	0.7990	0.7857	0.7599	0.7497	0.7444	AVRG	R		1.287404		ug/L	0.7768	3	0.050	0.99	15	
1,2-Dichloroethane-d4	0.5427	0.5307	0.5462	0.5415	0.5126	0.4835	0.4655	0.4394	AVRG	R		1.969427		ug/L	0.5078	8	0.050	0.99	15	
Trifluorotoluene	0.1167	0.1212	0.1619	0.2202	0.2198	0.2378	0.2363	0.2120	LINR	R	0.181402	4.460388		ug/L	0.1908	0.994	0.050	0.99	15	
Toluene-d8	1.1334	1.1229	1.1438	1.1248	1.1278	1.1228	1.1178	1.1078	AVRG	R		0.888778		ug/L	1.1251	1	0.050	0.99	15	
Bromofluorobenzene	1.3553	1.3675	1.3498	1.3266	1.2998	1.2772	1.2421	1.2086	AVRG	R		0.767243		ug/L	1.3034	4	0.050	0.99	15	

m=manual integration

AVRG=Average response factor LINR=Linear regression QUAD=Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA08
Seqnum : 476046588018 File : hb118
Cal : 476046588001 Caldate: 01-FEB-2006

IDF : 1.0
Time : 01-FEB-2006 20:53
Caltype: WATER

Standards: S2606 (10000X), S2284 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	0.5796	0.3807	25.00	14.93	ug/L	-40	30	v- ***
Chloromethane	0.9006	0.6647	25.00	18.45	ug/L	-26	30	!v- m
Vinyl Chloride	0.6624	0.5351	25.00	20.20	ug/L	-19	20	
Bromomethane	0.2589	0.2475	25.00	21.00	ug/L	-16	30	m
Chloroethane	0.3907	0.3123	25.00	19.98	ug/L	-20	30	
Trichlorofluoromethane	0.4825	0.4626	25.00	23.97	ug/L	-4	30	

ISTD (ICAL hb115)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1400499	1472319	5.13	10.48	10.47	-0.01
1,4-Difluorobenzene	2944215	3002868	1.99	11.61	11.62	0.01
1,4-Dichlorobenzene-d4	1111278	1106838	-0.40	18.34	18.33	-0.01

LW 2-2-06

2/10/06

!=warning -=low bias m=manual integration v=ICV

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476046588018

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA08
Seqnum : 476046588019
Cal : 476046588001

File : hb119
Caldate: 01-FEB-2006

IDF : 1.0
Time : 01-FEB-2006 21:30
Caltype: WATER

Standards: S2436 (10000X), S2616 (10000X), S2284 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Acetone	0.3021	0.2439	25.00	20.19	ug/L	-19	40	
Freon 113	0.3302	0.4138	25.00	24.04	ug/L	-4	30	
1,1-Dichloroethene	0.3600	0.4229	25.00	29.37	ug/L	17	20	
Methylene Chloride	0.5823	0.5485	25.00	23.55	ug/L	-6	30	
Carbon Disulfide	1.7971	1.5780	25.00	21.95	ug/L	-12	30	
MTBE	1.4527	1.3715	25.00	23.60	ug/L	-6	30	
trans-1,2-Dichloroethene	0.4543	0.4708	25.00	25.91	ug/L	4	30	
Vinyl Acetate	1.6426	1.4765	25.00	22.47	ug/L	-10	40	
1,1-Dichloroethane	1.0006	0.9818	25.00	24.53	ug/L	-2	30	
2-Butanone	0.4575	0.4093	25.00	22.37	ug/L	-11	40	
2,2-Dichloropropane	0.5854	0.5717	25.00	24.41	ug/L	-2	30	
cis-1,2-Dichloroethene	0.4992	0.5262	25.00	26.35	ug/L	5	30	
Chloroform	0.8302	0.8279	25.00	24.93	ug/L	0	20	
Bromochloromethane	0.2270	0.2306	25.00	25.39	ug/L	2	30	
1,1,1-Trichloroethane	0.5226	0.5808	25.00	27.79	ug/L	11	30	
1,1-Dichloropropene	0.2840	0.3294	25.00	26.30	ug/L	5	30	
Carbon Tetrachloride	0.1859	0.2247	25.00	26.37	ug/L	5	30	
1,2-Dichloroethane	0.3470	0.3495	25.00	25.18	ug/L	1	30	
Benzene	0.8363	0.8862	25.00	26.49	ug/L	6	30	
Trichloroethene	0.2025	0.2341	25.00	28.90	ug/L	16	30	
1,2-Dichloropropane	0.2865	0.2883	25.00	25.16	ug/L	1	20	
Bromodichloromethane	0.3039	0.3299	25.00	27.14	ug/L	9	30	
Dibromomethane	0.1588	0.1636	25.00	25.76	ug/L	3	30	
2-Chloroethylvinylether	0.0733	0.0801	25.00	23.61	ug/L	-6	40	
4-Methyl-2-Pentanone	0.4139	0.4111	25.00	24.83	ug/L	-1	40	
Tetramethyl THF	0.7071	0.7380	25.00	26.09	ug/L	4	30	
cis-1,3-Dichloropropene	0.3937	0.4157	25.00	26.40	ug/L	6	30	
Toluene	0.4496	0.5011	25.00	27.86	ug/L	11	20	
trans-1,3-Dichloropropene	0.3620	0.3582	25.00	24.74	ug/L	-1	30	
1,1,2-Trichloroethane	0.1200	0.1261	25.00	26.28	ug/L	5	30	
2-Hexanone	0.3361	0.3374	25.00	25.10	ug/L	0	40	
1,3-Dichloropropane	0.4573	0.4794	25.00	26.21	ug/L	5	30	
Tetrachloroethene	0.1551	0.1968	25.00	27.46	ug/L	10	30	
Dibromochloromethane	0.2193	0.2504	25.00	28.54	ug/L	14	30	
1,2-Dibromoethane	0.2117	0.2272	25.00	26.83	ug/L	7	30	
Chlorobenzene	0.5482	0.5981	25.00	27.27	ug/L	9	30	
1,1,1,2-Tetrachloroethane	0.1843	0.2040	25.00	27.67	ug/L	11	30	
Ethylbenzene	0.9264	1.0588	25.00	28.57	ug/L	14	20	
m,p-Xylenes	0.3213	0.3750	50.00	58.37	ug/L	17	30	
o-Xylene	0.3218	0.3715	25.00	28.86	ug/L	15	30	
Styrene	0.5822	0.6524	25.00	28.01	ug/L	12	30	
Bromoform	0.1450	0.1491	25.00	25.71	ug/L	3	30	
Isopropylbenzene	1.7784	1.9807	25.00	27.85	ug/L	11	30	
1,1,2,2-Tetrachloroethane	0.8631	0.9152	25.00	26.51	ug/L	6	30	
1,2,3-Trichloropropane	0.1962	0.2109	25.00	26.87	ug/L	7	30	
Propylbenzene	2.3081	2.7665	25.00	29.97	ug/L	20	30	
Bromobenzene	0.4470	0.4818	25.00	26.95	ug/L	8	30	
1,3,5-Trimethylbenzene	1.4355	1.6701	25.00	29.09	ug/L	16	30	

476046588019

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
2-Chlorotoluene	1.6443	1.8247	25.00	27.74	ug/L	11	30	
4-Chlorotoluene	1.5655	1.6941	25.00	27.05	ug/L	8	30	
tert-Butylbenzene	1.1200	1.3880	25.00	27.29	ug/L	9	30	
1,2,4-Trimethylbenzene	1.4917	1.6761	25.00	28.09	ug/L	12	30	
sec-Butylbenzene	1.8394	2.3791	25.00	27.87	ug/L	11	30	
para-Isopropyl Toluene	1.3712	1.6227	25.00	26.11	ug/L	4	30	
1,3-Dichlorobenzene	0.8196	0.9071	25.00	27.67	ug/L	11	30	
1,4-Dichlorobenzene	0.8520	0.9389	25.00	27.55	ug/L	10	30	
n-Butylbenzene	1.4409	1.7490	25.00	26.80	ug/L	7	30	
1,2-Dichlorobenzene	0.7873	0.8708	25.00	27.65	ug/L	11	30	
1,2-Dibromo-3-Chloropropane	0.1592	0.1661	25.00	26.08	ug/L	4	30	
1,2,4-Trichlorobenzene	0.3931	0.4313	25.00	27.43	ug/L	10	30	
Hexachlorobutadiene	0.1229	0.1784	25.00	29.70	ug/L	19	30	
Naphthalene	1.0879	1.1792	25.00	27.10	ug/L	8	30	
1,2,3-Trichlorobenzene	0.3826	0.4165	25.00	27.21	ug/L	9	30	
tert-Butyl Alcohol (TBA)	0.0602	0.0578	125.0	120.0	ug/L	-4	30	
Isopropyl Ether (DIPE)	2.5027	2.3832	25.00	23.81	ug/L	-5	30	
Ethyl tert-Butyl Ether (ETBE)	1.6278	1.7254	25.00	26.50	ug/L	6	30	
Methyl tert-Amyl Ether (TAME)	0.7096	0.6886	25.00	24.26	ug/L	-3	30	
Cyclohexanone	0.1257	0.0382	250.0	76.01	ug/L	-70	30	v- ***
Ethanol	0.0105	0.0102	2500	2414	ug/L	-3	30	
Isopropanol	0.0534	0.0501	250.0	234.8	ug/L	-6	30	
Tetrahydrofuran	0.2425	0.2341	250.0	241.3	ug/L	-3	30	

ISTD (ICAL hb115)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1400499	1442265	2.98	10.48	10.47	-0.01
1,4-Difluorobenzene	2944215	2927349	-0.57	11.61	11.62	0.01
Chlorobenzene-d5	2503542	2525552	0.88	15.61	15.62	0.01
1,4-Dichlorobenzene-d4	1111278	1105699	-0.50	18.34	18.33	-0.01

LW 2-2-06

-=low bias v=ICV

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB110.D
Report Date: 02-Feb-2006 10:43

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB110.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 15:57 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.001/1000,S2552,0.002/1000,
Misc Info : S2028,0.001/1000,1.0/0.5 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 15:57 Cal File: HB110.D
Als bottle: 10 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.838	4.823	(0.462)	11211	1.00000	0.5104(M)
2 Chloromethane	50	5.350	5.324	(0.511)	30081	1.00000	1.2367(M)
3 Vinyl Chloride	62	5.419	5.413	(0.517)	16852	1.00000	0.9420(M)
4 Bromomethane	94	6.038	6.042	(0.577)	5415	1.00000	1.4923(M)
5 Chloroethane	64	6.186	6.190	(0.591)	11282	1.00000	1.0692(M)
6 Trichlorofluoromethane	101	6.520	6.534	(0.623)	10259	1.00000	0.7873
7 Ethanol	45	6.786	6.790	(0.648)	13617	50.0000	47.8354(A)
8 Freon 113	101	7.238	7.252	(0.691)	1591	0.50000	0.9103(M)
9 1,1-Dichloroethene	96	7.347	7.360	(0.701)	3912	0.50000	0.4023(aM)
10 Acetone	43	7.455	7.449	(0.712)	13458	0.50000	1.6494
11 Isopropanol	45	7.524	7.527	(0.718)	9709	5.00000	6.7335(A)
12 Carbon Disulfide	76	7.769	7.773	(0.742)	20263	0.50000	0.4175(a)
13 tert-Butyl Alcohol (TBA)	59	8.074	8.077	(0.771)	8627	5.00000	5.3049(A)
14 Methylene Chloride	84	8.104	8.108	(0.774)	19517	0.50000	1.2409(M)
15 MTBE	73	8.330	8.334	(0.795)	19136	0.50000	0.4877(a)
16 trans-1,2-Dichloroethene	96	8.428	8.422	(0.805)	6249	0.50000	0.5093
17 Isopropyl Ether (DIPE)	45	8.930	8.934	(0.853)	33251	0.50000	0.4919(aA)
18 Vinyl Acetate	43	8.999	9.003	(0.859)	20697	0.50000	0.4665(a)
19 1,1-Dichloroethane	63	9.068	9.072	(0.866)	12822	0.50000	0.4744(a)
20 Ethyl tert-Butyl Ether (ETBE)	59	9.442	9.445	(0.901)	21356	0.50000	0.4857(aA)
21 2-Butanone	43	9.855	9.849	(0.941)	8992	0.50000	0.7276
22 2,2-Dichloropropane	77	9.874	9.868	(0.943)	6916	0.50000	0.4374(a)

LW 2-2-06

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB110.D
Report Date: 02-Feb-2006 10:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.884	9.888	(0.944)	6999	0.50000	0.5191
	24 Tetrahydrofuran	42	10.248	10.252	(0.978)	41790	5.00000	6.3807(A)
	25 Bromochloromethane	128	10.248	10.262	(0.978)	2892	0.50000	0.4716(a)
	26 Chloroform	83	10.287	10.281	(0.982)	11003	0.50000	0.4907(a)
*	27 Pentafluorobenzene	168	10.474	10.478	(1.000)	1350317	50.0000	
$	28 Dibromofluoromethane	113	10.523	10.527	(1.005)	1066047	50.0000	50.8189
	29 1,1,1-Trichloroethane	97	10.573	10.576	(1.009)	5402	0.50000	0.3827(a)
	30 Carbon Tetrachloride	117	10.779	10.773	(0.929)	4118	0.50000	0.7117
	31 1,1-Dichloropropene	75	10.789	10.793	(0.930)	7071	0.50000	0.5143
$	32 1,2-Dichloroethane-d4	65	11.084	11.088	(0.955)	1568331	50.0000	53.4377
	33 Benzene	78	11.114	11.108	(0.958)	24749	0.50000	0.5120
	34 Methyl tert-Amyl Ether (TAME)	73	11.114	11.108	(0.958)	20735	0.50000	0.5055(A)
	35 1,2-Dichloroethane	62	11.192	11.206	(0.964)	9507	0.50000	0.4739(a)
*	36 1,4-Difluorobenzene	114	11.605	11.609	(1.000)	2890010	50.0000	
	37 Trichloroethene	95	12.009	12.012	(1.035)	4702	0.50000	0.4016(a)
$	38 Trifluorotoluene	146	12.353	12.367	(1.064)	3373	0.50000	0.4416(aA)
	39 1,2-Dichloropropane	63	12.412	12.416	(1.069)	8183	0.50000	0.4942(a)
	40 Dibromomethane	93	12.599	12.603	(1.086)	4115	0.50000	0.4482(a)
	41 Bromodichloromethane	83	12.746	12.750	(1.098)	8535	0.50000	0.4859(a)
	42 2-Chloroethylvinylether	63	13.081	13.085	(1.127)	1651	1.00000	1.4402
	43 Tetramethyl THF	43	13.307	13.311	(1.147)	20551	0.50000	0.5028(A)
	44 cis-1,3-Dichloropropene	75	13.356	13.360	(1.151)	11037	0.50000	0.4850(a)
	45 4-Methyl-2-Pentanone	43	13.484	13.498	(1.162)	13500	0.50000	0.5643
$	46 Toluene-d8	98	13.691	13.694	(1.180)	3275677	50.0000	50.3692
	47 Toluene	92	13.789	13.783	(1.188)	12267	0.50000	0.4720(a)
	48 trans-1,3-Dichloropropene	75	14.104	14.107	(1.215)	10398	0.50000	0.4969(a)
	49 1,1,2-Trichloroethane	85	14.369	14.373	(1.238)	3728	0.50000	0.5376
	50 Tetrachloroethene	166	14.497	14.501	(0.929)	2493	0.50000	0.6795
	51 2-Hexanone	43	14.586	14.589	(0.934)	6730	0.50000	0.4113(a)
	52 1,3-Dichloropropane	76	14.615	14.619	(0.936)	10682	0.50000	0.4798(a)
	53 Dibromochloromethane	129	14.890	14.894	(0.954)	4837	0.50000	0.4530(a)
	54 1,2-Dibromoethane	107	15.097	15.101	(1.301)	5782	0.50000	0.4724(a)
*	55 Chlorobenzene-d5	117	15.609	15.612	(1.000)	2433786	50.0000	
	56 Chlorobenzene	112	15.648	15.652	(1.003)	13548	0.50000	0.5076
	57 Ethylbenzene	91	15.697	15.701	(1.006)	21968	0.50000	0.4871(a)
	58 1,1,1,2-Tetrachloroethane	131	15.727	15.730	(1.008)	3907	0.50000	0.4355(a)
	59 m,p-Xylenes	106	15.835	15.839	(1.014)	13470	1.00000	0.8613
	60 o-Xylene	106	16.336	16.340	(1.047)	7086	0.50000	0.4523(a)
	61 Styrene	104	16.366	16.360	(1.049)	13502	0.50000	0.4764(a)
	62 Bromoform	173	16.661	16.665	(1.067)	4109	0.50000	0.5822
	63 Isopropylbenzene	105	16.730	16.734	(0.913)	15744	0.50000	0.4340(a)
	64 Cyclohexanone	55	16.986	16.980	(0.926)	16781	5.00000	6.5426(A)
$	65 Bromofluorobenzene	95	16.995	16.998	(0.927)	1382208	50.0000	51.9929
	66 1,1,2,2-Tetrachloroethane	83	17.133	17.137	(0.935)	9211	0.50000	0.5232
	67 Bromobenzene	156	17.212	17.206	(0.939)	4621	0.50000	0.5068
	68 Propylbenzene	91	17.202	17.206	(0.938)	20985	0.50000	0.4457(a)
	69 1,2,3-Trichloropropane	110	17.231	17.235	(0.940)	1701	0.50000	0.4249(a)
	70 2-Chlorotoluene	91	17.379	17.383	(0.948)	18216	0.50000	0.5431
	71 1,3,5-Trimethylbenzene	105	17.379	17.383	(0.948)	13031	0.50000	0.4450(a)
	72 4-Chlorotoluene	91	17.507	17.511	(0.955)	16783	0.50000	0.5256
	73 tert-Butylbenzene	119	17.763	17.766	(0.969)	8948	0.50000	0.7896
	74 1,2,4-Trimethylbenzene	105	17.831	17.835	(0.973)	14624	0.50000	0.4806(a)
	75 sec-Butylbenzene	105	18.018	18.022	(0.983)	12723	0.50000	0.6167
	76 para-Isopropyl Toluene	119	18.156	18.160	(0.990)	11055	0.50000	0.7009

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB110.D
Report Date: 02-Feb-2006 10:43

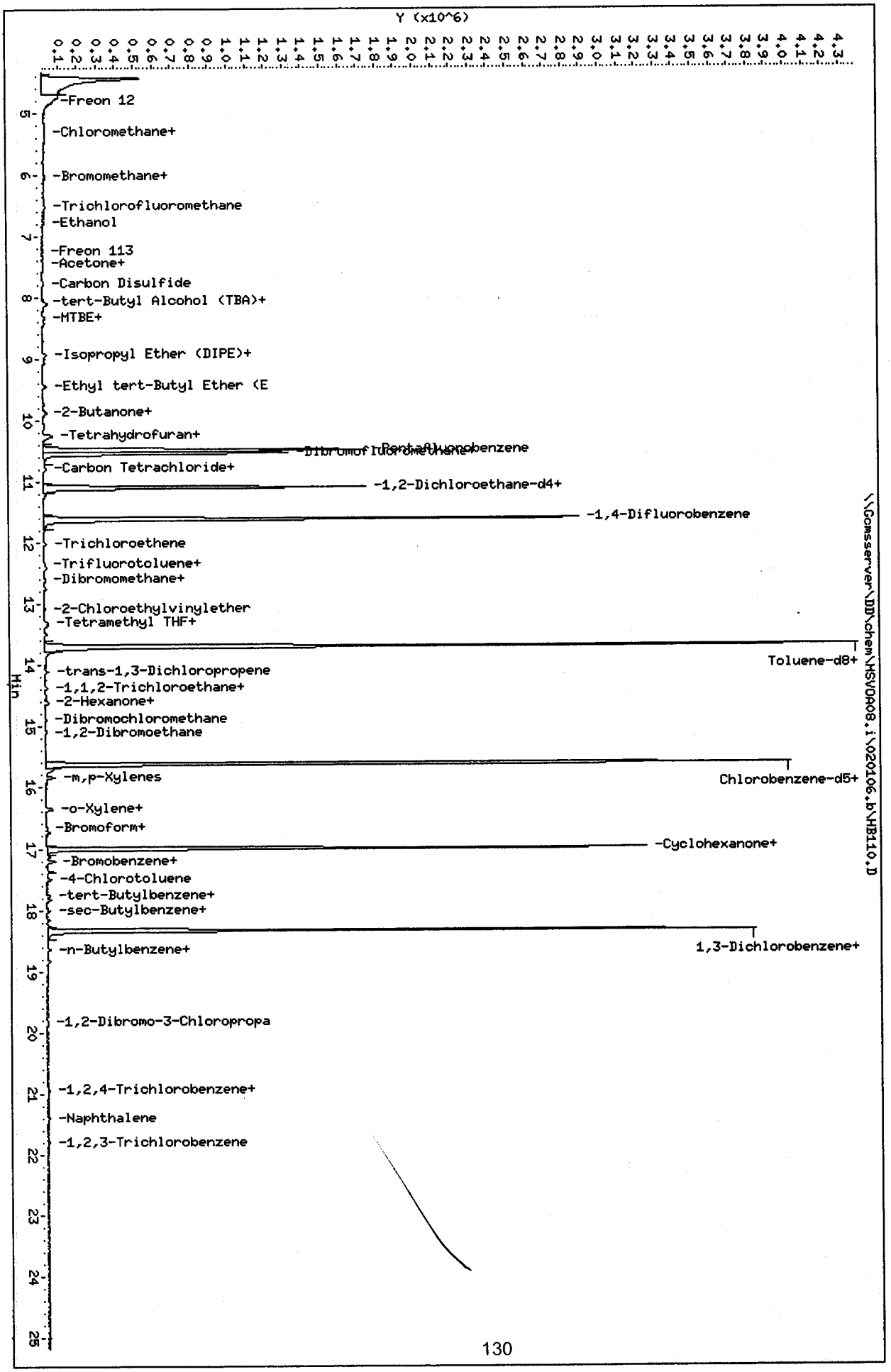
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.264	18.258	(0.996)	8252	0.50000	0.4936(a)
* 78 1,4-Dichlorobenzene-d4	152	18.333	18.337	(1.000)	1019841	50.0000	
79 1,4-Dichlorobenzene	146	18.372	18.366	(1.002)	7977	0.50000	0.4590(a)
80 n-Butylbenzene	91	18.648	18.642	(1.017)	11021	0.50000	0.5363
81 1,2-Dichlorobenzene	146	18.835	18.838	(1.027)	7515	0.50000	0.4680(a)
82 1,2-Dibromo-3-Chloropropane	75	19.828	19.832	(1.082)	1766	0.50000	0.5438
83 1,2,4-Trichlorobenzene	180	20.949	20.963	(1.143)	3391	0.50000	0.4229(a)
84 Hexachlorobutadiene	225	21.067	21.081	(1.149)	561	0.50000	0.4022(a)
85 Naphthalene	128	21.402	21.406	(1.167)	9609	0.50000	0.4330(a)
86 1,2,3-Trichlorobenzene	180	21.795	21.799	(1.189)	3295	0.50000	0.4222(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\HSVOA08.i\020106.b\HB110.D
Date : 01-FEB-2006 15:57
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.001/1000,S2552,0.002/1000,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: HSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB111.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB111.D
Lab Smp Id:
Inj Date : 01-FEB-2006 16:34
Operator : LW
Smp Info : ICAL,S2349,0.002/500,S2552,0.002/500,
Misc Info : S2028,0.001/500,2 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target
Cal Date : 01-FEB-2006 16:34
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Client Smp ID: DYNA P&T
MS Autotune Date: 30-JAN-2006 09:15
Inst ID: MSVOA08.i
Quant Type: ISTD
Cal File: HB111.D
Calibration Sample, Level: 2
Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.823	4.823	(0.460)	26781	2.00000	1.3937(M)
2 Chloromethane	50	5.325	5.324	(0.508)	54029	2.00000	2.1792(M)
3 Vinyl Chloride	62	5.414	5.413	(0.517)	34330	2.00000	1.8827(M)
4 Bromomethane	94	6.053	6.042	(0.578)	9177	2.00000	1.9340(M)
5 Chloroethane	64	6.191	6.190	(0.591)	23192	2.00000	2.1563(M)
6 Trichlorofluoromethane	101	6.535	6.534	(0.624)	22381	2.00000	1.6851
7 Ethanol	45	6.781	6.790	(0.647)	55079	200.000	189.8147(A)
8 Freon 113	101	7.253	7.252	(0.692)	8700	2.00000	1.4885
9 1,1-Dichloroethene	96	7.351	7.360	(0.702)	15301	2.00000	1.5438
10 Acetone	43	7.459	7.449	(0.712)	26898	2.00000	3.2340
11 Isopropanol	45	7.518	7.527	(0.717)	30452	20.0000	20.7187(A)
12 Carbon Disulfide	76	7.764	7.773	(0.741)	83602	2.00000	1.6899
13 tert-Butyl Alcohol (TBA)	59	8.079	8.077	(0.771)	32300	20.0000	19.4849(A)
14 Methylene Chloride	84	8.099	8.108	(0.773)	40379	2.00000	2.5187(M)
15 MTBE	73	8.335	8.334	(0.795)	82163	2.00000	2.0544
16 trans-1,2-Dichloroethene	96	8.423	8.422	(0.804)	22054	2.00000	1.7634
17 Isopropyl Ether (DIPE)	45	8.935	8.934	(0.853)	145830	2.00000	2.1166(A)
18 Vinyl Acetate	43	9.004	9.003	(0.859)	92601	2.00000	2.0478
19 1,1-Dichloroethane	63	9.063	9.072	(0.865)	54964	2.00000	1.9953
20 Ethyl tert-Butyl Ether (ETBE)	59	9.436	9.445	(0.901)	92238	2.00000	2.0583(A)
21 2-Butanone	43	9.849	9.849	(0.940)	26867	2.00000	2.1330
22 2,2-Dichloropropane	77	9.869	9.868	(0.942)	27856	2.00000	1.7284

LW 2-2-06

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB111.D
Report Date: 02-Feb-2006 10:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 cis-1,2-Dichloroethene	96	9.879	9.888	(0.943)	26166	2.00000	1.9039
24 Tetrahydrofuran	42	10.253	10.252	(0.978)	145964	20.0000	21.8635(A)
25 Bromochloromethane	128	10.253	10.262	(0.978)	11872	2.00000	1.8994
26 Chloroform	83	10.282	10.281	(0.981)	45453	2.00000	1.9887
* 27 Pentafluorobenzene	168	10.479	10.478	(1.000)	1376448	50.0000	
$ 28 Dibromofluoromethane	113	10.528	10.527	(1.005)	1086918	50.0000	50.8302
29 1,1,1-Trichloroethane	97	10.567	10.576	(1.008)	24880	2.00000	1.7293
30 Carbon Tetrachloride	117	10.774	10.773	(0.928)	14767	2.00000	1.5430
31 1,1-Dichloropropene	75	10.784	10.793	(0.929)	24519	2.00000	1.4498
$ 32 1,2-Dichloroethane-d4	65	11.089	11.088	(0.955)	1561574	50.0000	52.2629
33 Benzene	78	11.108	11.108	(0.957)	95194	2.00000	1.9343
34 Methyl tert-Amyl Ether (TAME)	73	11.108	11.108	(0.957)	82610	2.00000	1.9783(A)
35 1,2-Dichloroethane	62	11.197	11.206	(0.964)	41968	2.00000	2.0551
* 36 1,4-Difluorobenzene	114	11.610	11.609	(1.000)	2942240	50.0000	
37 Trichloroethene	95	12.013	12.012	(1.035)	20382	2.00000	1.7102
$ 38 Trifluorotoluene	146	12.358	12.367	(1.064)	14261	2.00000	1.2623(A)
39 1,2-Dichloropropane	63	12.407	12.416	(1.069)	33962	2.00000	2.0146
40 Dibromomethane	93	12.603	12.603	(1.086)	19265	2.00000	2.0614
41 Bromodichloromethane	83	12.741	12.750	(1.097)	35917	2.00000	2.0086
42 2-Chloroethylvinylether	63	13.085	13.085	(1.127)	4671	2.00000	2.0355
43 Tetramethyl THF	43	13.312	13.311	(1.147)	84674	2.00000	2.0348(A)
44 cis-1,3-Dichloropropene	75	13.361	13.360	(1.151)	45611	2.00000	1.9689
45 4-Methyl-2-Pentanone	43	13.489	13.498	(1.162)	45586	2.00000	1.8717
$ 46 Toluene-d8	98	13.695	13.694	(1.180)	3303834	50.0000	49.9003
47 Toluene	92	13.784	13.783	(1.187)	47862	2.00000	1.8090
48 trans-1,3-Dichloropropene	75	14.108	14.107	(1.215)	40673	2.00000	1.9093
49 1,1,2-Trichloroethane	85	14.364	14.373	(1.237)	13675	2.00000	1.9370
50 Tetrachloroethene	166	14.492	14.501	(0.928)	10735	2.00000	1.5932
51 2-Hexanone	43	14.590	14.589	(0.934)	31655	2.00000	1.9062
52 1,3-Dichloropropane	76	14.610	14.619	(0.936)	45656	2.00000	2.0206
53 Dibromochloromethane	129	14.895	14.894	(0.954)	20753	2.00000	1.9151
54 1,2-Dibromoethane	107	15.092	15.101	(1.300)	23629	2.00000	1.8965
* 55 Chlorobenzene-d5	117	15.613	15.612	(1.000)	2470484	50.0000	
56 Chlorobenzene	112	15.652	15.652	(1.003)	50986	2.00000	1.8821
57 Ethylbenzene	91	15.702	15.701	(1.006)	80176	2.00000	1.7516
58 1,1,1,2-Tetrachloroethane	131	15.731	15.730	(1.008)	16726	2.00000	1.8369
59 m,p-Xylenes	106	15.839	15.839	(1.014)	55527	4.00000	3.4979
60 o-Xylene	106	16.341	16.340	(1.047)	29040	2.00000	1.8264
61 Styrene	104	16.361	16.360	(1.048)	52127	2.00000	1.8120
62 Bromoform	173	16.666	16.665	(1.067)	13004	2.00000	1.8153
63 Isopropylbenzene	105	16.734	16.734	(0.913)	59500	2.00000	1.6369
64 Cyclohexanone	55	16.980	16.980	(0.926)	63331	20.0000	24.6403(A)
$ 65 Bromofluorobenzene	95	17.000	16.998	(0.927)	1397565	50.0000	52.4608
66 1,1,2,2-Tetrachloroethane	83	17.138	17.137	(0.935)	33947	2.00000	1.9243
67 Bromobenzene	156	17.207	17.206	(0.938)	16755	2.00000	1.8338
68 Propylbenzene	91	17.207	17.206	(0.938)	77276	2.00000	1.6380
69 1,2,3-Trichloropropane	110	17.226	17.235	(0.939)	7872	2.00000	1.9624
70 2-Chlorotoluene	91	17.384	17.383	(0.948)	64733	2.00000	1.9261
71 1,3,5-Trimethylbenzene	105	17.384	17.383	(0.948)	52538	2.00000	1.7906
72 4-Chlorotoluene	91	17.502	17.511	(0.954)	61268	2.00000	1.9147
73 tert-Butylbenzene	119	17.767	17.766	(0.969)	34288	2.00000	1.7478
74 1,2,4-Trimethylbenzene	105	17.836	17.835	(0.973)	54844	2.00000	1.7988
75 sec-Butylbenzene	105	18.023	18.022	(0.983)	54254	2.00000	1.5568
76 para-Isopropyl Toluene	119	18.161	18.160	(0.990)	42352	2.00000	1.6724

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB111.D
Report Date: 02-Feb-2006 10:44

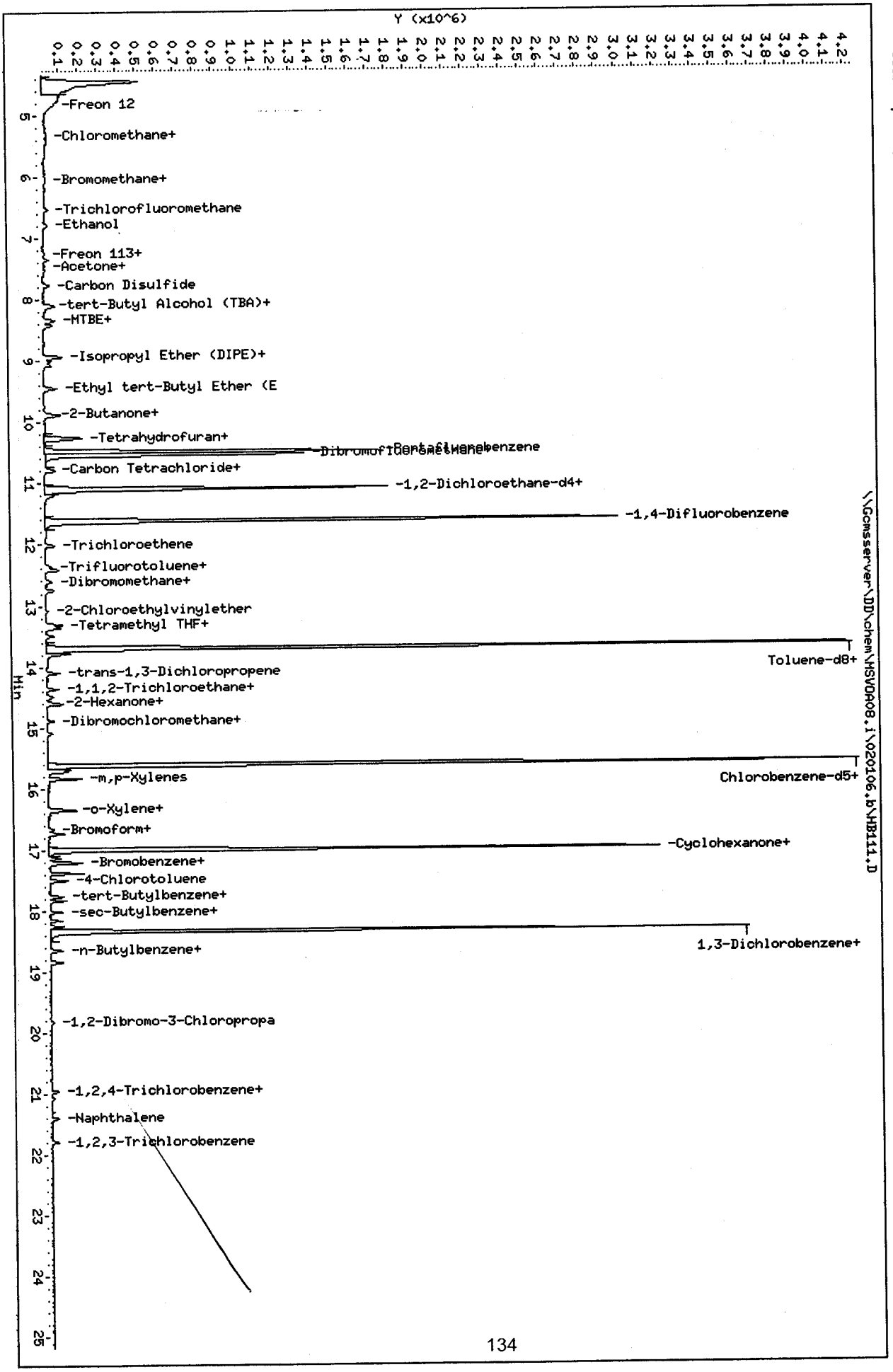
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.259	18.258	(0.996)	30004	2.00000	1.7909
* 78 1,4-Dichlorobenzene-d4	152	18.338	18.337	(1.000)	1021974	50.0000	
79 1,4-Dichlorobenzene	146	18.367	18.366	(1.002)	33450	2.00000	1.9208
80 n-Butylbenzene	91	18.643	18.642	(1.017)	42216	2.00000	1.4637
81 1,2-Dichlorobenzene	146	18.829	18.838	(1.027)	30170	2.00000	1.8749
82 1,2-Dibromo-3-Chloropropane	75	19.833	19.832	(1.082)	7174	2.00000	2.2047
83 1,2,4-Trichlorobenzene	180	20.954	20.963	(1.143)	14086	2.00000	1.7532
84 Hexachlorobutadiene	225	21.062	21.081	(1.149)	2780	2.00000	1.1194
85 Naphthalene	128	21.406	21.406	(1.167)	37770	2.00000	1.6985
86 1,2,3-Trichlorobenzene	180	21.790	21.799	(1.188)	14019	2.00000	1.7926

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\HSVOA08.i\020106.b\HB111.D
Date : 01-FEB-2006 16:34
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.002/500,S2552,0.002/500,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: HSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB112.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB112.D
Lab Smp Id:
Inj Date : 01-FEB-2006 17:10
Operator : LW
Smp Info : ICAL,S2349,0.002/200,S2552,0.002/200,
Misc Info : S2028,0.001/200,5 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target
Cal Date : 01-FEB-2006 17:10
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Client Smp ID: DYNA P&T
MS Autotune Date: 30-JAN-2006 09:15
Inst ID: MSVOA08.i
Quant Type: ISTD
Cal File: HB112.D
Calibration Sample, Level: 3
Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.829	4.823	(0.461)	72310	5.00000	4.1360(M)
2 Chloromethane	50	5.320	5.324	(0.508)	126396	5.00000	5.2486(M)
3 Vinyl Chloride	62	5.409	5.413	(0.516)	86467	5.00000	4.8820(M)
4 Bromomethane	94	6.048	6.042	(0.577)	32829	5.00000	4.8968(M)
5 Chloroethane	64	6.196	6.190	(0.592)	49301	5.00000	4.7192(M)
6 Trichlorofluoromethane	101	6.530	6.534	(0.623)	62054	5.00000	4.8102
7 Ethanol	45	6.786	6.790	(0.648)	145747	500.000	517.1152(A)
8 Freon 113	101	7.248	7.252	(0.692)	38990	5.00000	4.0571
9 1,1-Dichloroethene	96	7.356	7.360	(0.702)	44525	5.00000	4.6252
10 Acetone	43	7.445	7.449	(0.711)	41137	5.00000	5.0922
11 Isopropanol	45	7.524	7.527	(0.718)	72789	50.0000	50.9866(A)
12 Carbon Disulfide	76	7.769	7.773	(0.742)	236016	5.00000	4.9117
13 tert-Butyl Alcohol (TBA)	59	8.074	8.077	(0.771)	84736	50.0000	52.6270(A)
14 Methylene Chloride	84	8.104	8.108	(0.774)	84786	5.00000	5.4450
15 MTBE	73	8.330	8.334	(0.795)	205424	5.00000	5.2883
16 trans-1,2-Dichloroethene	96	8.419	8.422	(0.804)	59488	5.00000	4.8970
17 Isopropyl Ether (DIPE)	45	8.930	8.934	(0.853)	361694	5.00000	5.4049(A)
18 Vinyl Acetate	43	9.009	9.003	(0.860)	238375	5.00000	5.4272
19 1,1-Dichloroethane	63	9.068	9.072	(0.866)	142604	5.00000	5.3299
20 Ethyl tert-Butyl Ether (ETBE)	59	9.442	9.445	(0.901)	234361	5.00000	5.3843(A)
21 2-Butanone	43	9.855	9.849	(0.941)	65691	5.00000	5.3693
22 2,2-Dichloropropane	77	9.864	9.868	(0.942)	80357	5.00000	5.1333

LW 2-2-06

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB112.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.884	9.888	(0.944)	65201	5.00000	4.8844
	24 Tetrahydrofuran	42	10.248	10.252	(0.978)	371226	50.0000	57.2476(A)
	25 Bromochloromethane	128	10.248	10.262	(0.978)	32071	5.00000	5.2827
	26 Chloroform	83	10.278	10.281	(0.981)	117410	5.00000	5.2890
*	27 Pentafluorobenzene	168	10.474	10.478	(1.000)	1336953	50.0000	
$	28 Dibromofluoromethane	113	10.523	10.527	(1.005)	1064538	50.0000	51.2542
	29 1,1,1-Trichloroethane	97	10.573	10.576	(1.009)	67278	5.00000	4.8145
	30 Carbon Tetrachloride	117	10.769	10.773	(0.928)	48086	5.00000	4.2778
	31 1,1-Dichloropropene	75	10.789	10.793	(0.930)	72725	5.00000	4.1734
$	32 1,2-Dichloroethane-d4	65	11.084	11.088	(0.955)	1559307	50.0000	53.7830
	33 Benzene	78	11.104	11.108	(0.957)	242554	5.00000	5.0795
	34 Methyl tert-Amyl Ether (TAME)	73	11.104	11.108	(0.957)	214610	5.00000	5.2965(A)
	35 1,2-Dichloroethane	62	11.202	11.206	(0.965)	106497	5.00000	5.3746
*	36 1,4-Difluorobenzene	114	11.605	11.609	(1.000)	2854933	50.0000	
	37 Trichloroethene	95	12.009	12.012	(1.035)	56093	5.00000	4.8508
$	38 Trifluorotoluene	146	12.363	12.367	(1.065)	46235	5.00000	3.7931(A)
	39 1,2-Dichloropropane	63	12.412	12.416	(1.069)	85540	5.00000	5.2295
	40 Dibromomethane	93	12.599	12.603	(1.086)	47260	5.00000	5.2116
	41 Bromodichloromethane	83	12.746	12.750	(1.098)	87679	5.00000	5.0534
	42 2-Chloroethylvinylether	63	13.081	13.085	(1.127)	16770	5.00000	4.5322
	43 Tetramethyl THF	43	13.307	13.311	(1.147)	215078	5.00000	5.3267(A)
	44 cis-1,3-Dichloropropene	75	13.356	13.360	(1.151)	115163	5.00000	5.1233
	45 4-Methyl-2-Pentanone	43	13.494	13.498	(1.163)	129555	5.00000	5.4821
$	46 Toluene-d8	98	13.691	13.694	(1.180)	3265445	50.0000	50.8287
	47 Toluene	92	13.789	13.783	(1.188)	121468	5.00000	4.7315
	48 trans-1,3-Dichloropropene	75	14.104	14.107	(1.215)	106343	5.00000	5.1449
	49 1,1,2-Trichloroethane	85	14.369	14.373	(1.238)	34296	5.00000	5.0066
	50 Tetrachloroethene	166	14.497	14.501	(0.929)	32345	5.00000	4.0438
	51 2-Hexanone	43	14.586	14.589	(0.934)	85120	5.00000	5.1888
	52 1,3-Dichloropropane	76	14.615	14.619	(0.936)	115338	5.00000	5.1673
	53 Dibromochloromethane	129	14.891	14.894	(0.954)	52749	5.00000	4.9275
	54 1,2-Dibromoethane	107	15.097	15.101	(1.301)	60496	5.00000	5.0041
*	55 Chlorobenzene-d5	117	15.609	15.612	(1.000)	2440509	50.0000	
	56 Chlorobenzene	112	15.648	15.652	(1.003)	128768	5.00000	4.8119
	57 Ethylbenzene	91	15.697	15.701	(1.006)	216155	5.00000	4.7803
	58 1,1,1,2-Tetrachloroethane	131	15.727	15.730	(1.008)	45608	5.00000	5.0703
	59 m,p-Xylenes	106	15.835	15.839	(1.014)	147830	10.0000	9.4271
	60 o-Xylene	106	16.336	16.340	(1.047)	74271	5.00000	4.7284
	61 Styrene	104	16.356	16.360	(1.048)	137538	5.00000	4.8397
	62 Bromoform	173	16.671	16.665	(1.068)	33320	5.00000	4.7086
	63 Isopropylbenzene	105	16.730	16.734	(0.913)	166411	5.00000	4.5189
	64 Cyclohexanone	55	16.976	16.980	(0.926)	117249	50.0000	45.0281(A)
$	65 Bromofluorobenzene	95	16.995	16.998	(0.927)	1397593	50.0000	51.7830
	66 1,1,2,2-Tetrachloroethane	83	17.133	17.137	(0.935)	92791	5.00000	5.1918
	67 Bromobenzene	156	17.202	17.206	(0.938)	45067	5.00000	4.8686
	68 Propylbenzene	91	17.202	17.206	(0.938)	229240	5.00000	4.7963
	69 1,2,3-Trichloropropane	110	17.231	17.235	(0.940)	21953	5.00000	5.4020
	70 2-Chlorotoluene	91	17.379	17.383	(0.948)	166084	5.00000	4.8778
	71 1,3,5-Trimethylbenzene	105	17.389	17.383	(0.948)	136039	5.00000	4.5764
	72 4-Chlorotoluene	91	17.507	17.511	(0.955)	158334	5.00000	4.8843
	73 tert-Butylbenzene	119	17.763	17.766	(0.969)	104163	5.00000	4.3407
	74 1,2,4-Trimethylbenzene	105	17.831	17.835	(0.973)	147628	5.00000	4.7794
	75 sec-Butylbenzene	105	18.018	18.022	(0.983)	167935	5.00000	4.0827
	76 para-Isopropyl Toluene	119	18.156	18.160	(0.990)	124877	5.00000	4.1857

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB112.D
Report Date: 02-Feb-2006 10:44

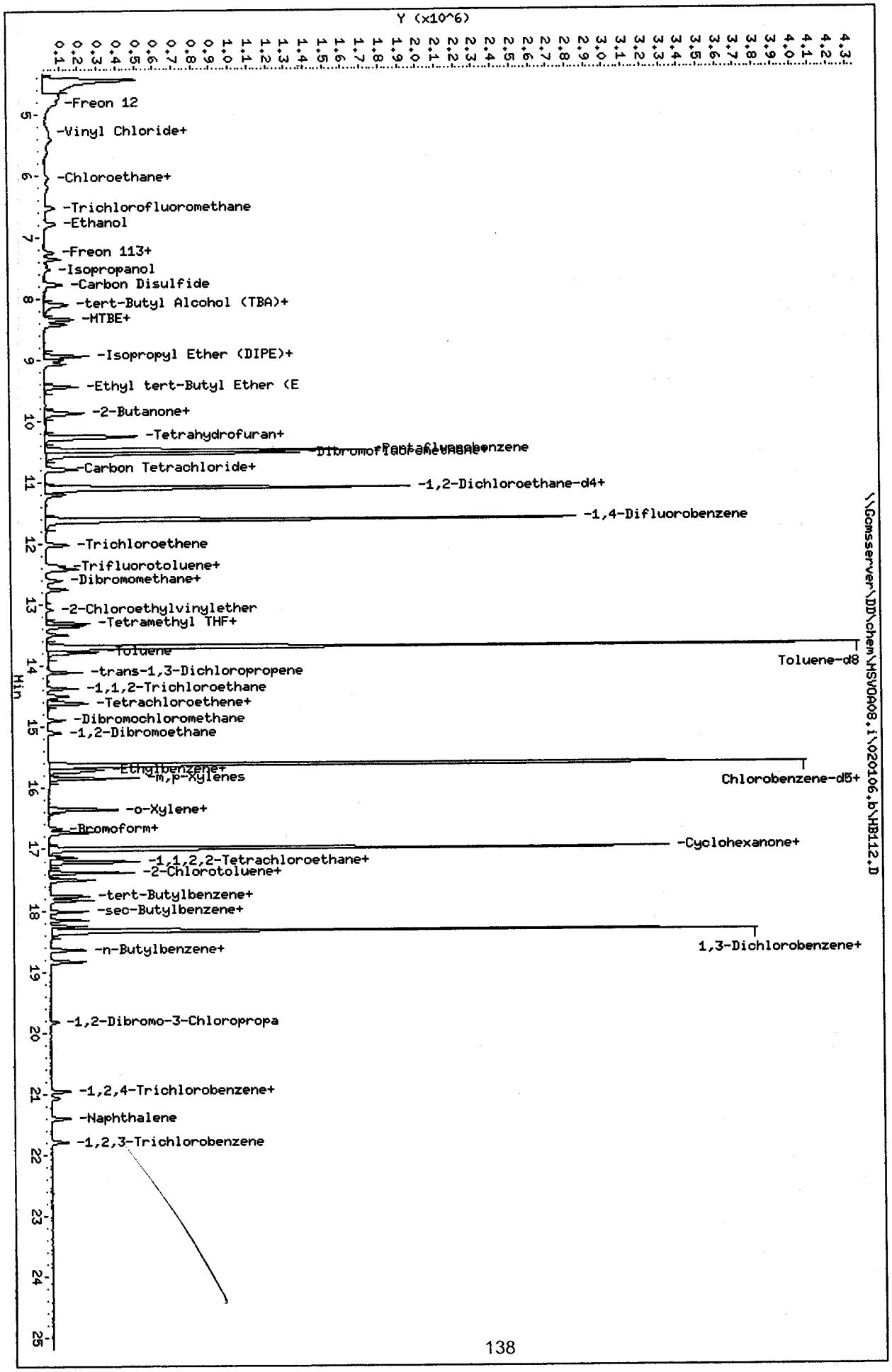
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.254	18.258	(0.996)	83366	5.00000	4.9118
* 78 1,4-Dichlorobenzene-d4	152	18.333	18.337	(1.000)	1035372	50.0000	
79 1,4-Dichlorobenzene	146	18.363	18.366	(1.002)	83847	5.00000	4.7526
80 n-Butylbenzene	91	18.648	18.642	(1.017)	133923	5.00000	4.1404
81 1,2-Dichlorobenzene	146	18.835	18.838	(1.027)	78989	5.00000	4.8452
82 1,2-Dibromo-3-Chloropropane	75	19.838	19.832	(1.082)	16393	5.00000	4.9727
83 1,2,4-Trichlorobenzene	180	20.959	20.963	(1.143)	38760	5.00000	4.7619
84 Hexachlorobutadiene	225	21.077	21.081	(1.150)	9989	5.00000	3.4088
85 Naphthalene	128	21.402	21.406	(1.167)	108748	5.00000	4.8273
86 1,2,3-Trichlorobenzene	180	21.795	21.799	(1.189)	37527	5.00000	4.7365

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB112.D
Date : 01-FEB-2006 17:10
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.002/200,S2552,0.002/200,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB113.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB113.D
Lab Smp Id:
Inj Date : 01-FEB-2006 17:47
Operator : LW
Smp Info : ICAL,S2349,0.002/100,S2552,0.002/100,
Misc Info : S2028,0.001/100,10 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target
Cal Date : 01-FEB-2006 17:47
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Client Smp ID: DYNA P&T
MS Autotune Date: 30-JAN-2006 09:15
Inst ID: MSVOA08.i
Quant Type: ISTD
Cal File: HB113.D
Calibration Sample, Level: 4
Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.816	4.823	(0.459)	180826	10.0000	10.2120
2 Chloromethane	50	5.327	5.324	(0.508)	263312	10.0000	10.5752
3 Vinyl Chloride	62	5.416	5.413	(0.517)	203819	10.0000	11.1300
4 Bromomethane	94	6.045	6.042	(0.577)	76870	10.0000	9.9974(M)
5 Chloroethane	64	6.193	6.190	(0.591)	119125	10.0000	11.0287(M)
6 Trichlorofluoromethane	101	6.527	6.534	(0.623)	153053	10.0000	11.4747
7 Ethanol	45	6.783	6.790	(0.647)	299859	1000.00	1028.9771(A)
8 Freon 113	101	7.245	7.252	(0.691)	117145	10.0000	10.3070
9 1,1-Dichloroethene	96	7.353	7.360	(0.702)	115590	10.0000	11.6130
10 Acetone	43	7.452	7.449	(0.711)	84028	10.0000	10.0600
11 Isopropanol	45	7.521	7.527	(0.718)	151004	100.000	102.3009(A)
12 Carbon Disulfide	76	7.766	7.773	(0.741)	562381	10.0000	11.3194
13 tert-Butyl Alcohol (TBA)	59	8.081	8.077	(0.771)	172489	100.000	103.6104(A)
14 Methylene Chloride	84	8.101	8.108	(0.773)	161314	10.0000	10.0196
15 MTBE	73	8.337	8.334	(0.795)	428965	10.0000	10.6804
16 trans-1,2-Dichloroethene	96	8.425	8.422	(0.804)	134649	10.0000	10.7204
17 Isopropyl Ether (DIPE)	45	8.937	8.934	(0.853)	756142	10.0000	10.9283(A)
18 Vinyl Acetate	43	9.006	9.003	(0.859)	527037	10.0000	11.6054
19 1,1-Dichloroethane	63	9.065	9.072	(0.865)	298414	10.0000	10.7871
20 Ethyl tert-Butyl Ether (ETBE)	59	9.438	9.445	(0.901)	485773	10.0000	10.7939(A)
21 2-Butanone	43	9.852	9.849	(0.940)	130789	10.0000	10.3392
22 2,2-Dichloropropane	77	9.871	9.868	(0.942)	189689	10.0000	11.7198

LW 2-2-06

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB113.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.881	9.888	(0.943)	146313	10.0000	10.6009
	24 Tetrahydrofuran	42	10.255	10.252	(0.978)	738822	100.000	110.1944(A)
	25 Bromochloromethane	128	10.255	10.262	(0.978)	64439	10.0000	10.2659
	26 Chloroform	83	10.284	10.281	(0.981)	247936	10.0000	10.8021
*	27 Pentafluorobenzene	168	10.481	10.478	(1.000)	1382341	50.0000	
$	28 Dibromofluoromethane	113	10.530	10.527	(1.005)	1104495	50.0000	51.4320
	29 1,1,1-Trichloroethane	97	10.570	10.576	(1.008)	167345	10.0000	11.5824
	30 Carbon Tetrachloride	117	10.776	10.773	(0.928)	128915	10.0000	10.6027
	31 1,1-Dichloropropene	75	10.796	10.793	(0.930)	191938	10.0000	10.5803
$	32 1,2-Dichloroethane-d4	65	11.091	11.088	(0.955)	1579783	50.0000	53.3235
	33 Benzene	78	11.111	11.108	(0.957)	530418	10.0000	10.8703
	34 Methyl tert-Amyl Ether (TAME)	73	11.111	11.108	(0.957)	450333	10.0000	10.8763(A)
	35 1,2-Dichloroethane	62	11.199	11.206	(0.964)	223586	10.0000	11.0423
*	36 1,4-Difluorobenzene	114	11.612	11.609	(1.000)	2917347	50.0000	
	37 Trichloroethene	95	12.015	12.012	(1.035)	129927	10.0000	10.9954
$	38 Trifluorotoluene	146	12.360	12.367	(1.064)	128498	10.0000	10.0045(A)
	39 1,2-Dichloropropane	63	12.409	12.416	(1.069)	176741	10.0000	10.5740
	40 Dibromomethane	93	12.596	12.603	(1.085)	98219	10.0000	10.5994
	41 Bromodichloromethane	83	12.743	12.750	(1.097)	187752	10.0000	10.5896
	42 2-Chloroethylvinylether	63	13.088	13.085	(1.127)	39304	10.0000	8.9005
	43 Tetramethyl THF	43	13.304	13.311	(1.146)	447845	10.0000	10.8543(A)
	44 cis-1,3-Dichloropropene	75	13.363	13.360	(1.151)	244787	10.0000	10.6570
	45 4-Methyl-2-Pentanone	43	13.491	13.498	(1.162)	248439	10.0000	10.2877
$	46 Toluene-d8	98	13.687	13.694	(1.179)	3281362	50.0000	49.9838
	47 Toluene	92	13.786	13.783	(1.187)	274190	10.0000	10.4519
	48 trans-1,3-Dichloropropene	75	14.101	14.107	(1.214)	228817	10.0000	10.8334
	49 1,1,2-Trichloroethane	85	14.366	14.373	(1.237)	70490	10.0000	10.0702
	50 Tetrachloroethene	166	14.494	14.501	(0.928)	87717	10.0000	10.0019
	51 2-Hexanone	43	14.592	14.589	(0.934)	164363	10.0000	9.7319
	52 1,3-Dichloropropane	76	14.612	14.619	(0.936)	242564	10.0000	10.5555
	53 Dibromochloromethane	129	14.887	14.894	(0.953)	113265	10.0000	10.2770
	54 1,2-Dibromoethane	107	15.094	15.101	(1.300)	129013	10.0000	10.4434
*	55 Chlorobenzene-d5	117	15.615	15.612	(1.000)	2512600	50.0000	
	56 Chlorobenzene	112	15.655	15.652	(1.003)	284104	10.0000	10.3120
	57 Ethylbenzene	91	15.704	15.701	(1.006)	501745	10.0000	10.7779
	58 1,1,1,2-Tetrachloroethane	131	15.733	15.730	(1.008)	94829	10.0000	10.2399
	59 m,p-Xylenes	106	15.842	15.839	(1.014)	347325	20.0000	21.5134
	60 o-Xylene	106	16.343	16.340	(1.047)	168268	10.0000	10.4054
	61 Styrene	104	16.363	16.360	(1.048)	304292	10.0000	10.4003
	62 Bromoform	173	16.668	16.665	(1.067)	69845	10.0000	9.5870
	63 Isopropylbenzene	105	16.737	16.734	(0.913)	431703	10.0000	11.3970
	64 Cyclohexanone	55	16.973	16.980	(0.925)	249568	100.000	93.1786(A)
$	65 Bromofluorobenzene	95	17.002	16.998	(0.927)	1412836	50.0000	50.8922
	66 1,1,2,2-Tetrachloroethane	83	17.130	17.137	(0.934)	193356	10.0000	10.5178
	67 Bromobenzene	156	17.209	17.206	(0.938)	96211	10.0000	10.1048
	68 Propylbenzene	91	17.199	17.206	(0.938)	567003	10.0000	11.5335
	69 1,2,3-Trichloropropane	110	17.228	17.235	(0.939)	44148	10.0000	10.5615
	70 2-Chlorotoluene	91	17.386	17.383	(0.948)	379715	10.0000	10.8420
	71 1,3,5-Trimethylbenzene	105	17.386	17.383	(0.948)	342147	10.0000	11.1901
	72 4-Chlorotoluene	91	17.504	17.511	(0.954)	354595	10.0000	10.6344
	73 tert-Butylbenzene	119	17.769	17.766	(0.969)	273503	10.0000	10.3814
	74 1,2,4-Trimethylbenzene	105	17.838	17.835	(0.973)	343662	10.0000	10.8166
	75 sec-Butylbenzene	105	18.015	18.022	(0.982)	464149	10.0000	10.4170
	76 para-Isopropyl Toluene	119	18.163	18.160	(0.990)	329729	10.0000	10.1858

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB113.D
Report Date: 02-Feb-2006 10:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.261	18.258	(0.996)	179816	10.0000	10.3000
* 78 1,4-Dichlorobenzene-d4	152	18.340	18.337	(1.000)	1064985	50.0000	
79 1,4-Dichlorobenzene	146	18.369	18.366	(1.002)	194789	10.0000	10.7340
80 n-Butylbenzene	91	18.645	18.642	(1.017)	367932	10.0000	10.7117
81 1,2-Dichlorobenzene	146	18.841	18.838	(1.027)	176845	10.0000	10.5462
82 1,2-Dibromo-3-Chloropropane	75	19.825	19.832	(1.081)	34463	10.0000	10.1635
83 1,2,4-Trichlorobenzene	180	20.956	20.963	(1.143)	88343	10.0000	10.5517
84 Hexachlorobutadiene	225	21.074	21.081	(1.149)	31699	10.0000	10.0570
85 Naphthalene	128	21.399	21.406	(1.167)	243792	10.0000	10.5210
86 1,2,3-Trichlorobenzene	180	21.792	21.799	(1.188)	85507	10.0000	10.4923

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA08.i\020106.b\HB113.D
Date : 01-FEB-2006 17:47
Client ID: DYNA P&T
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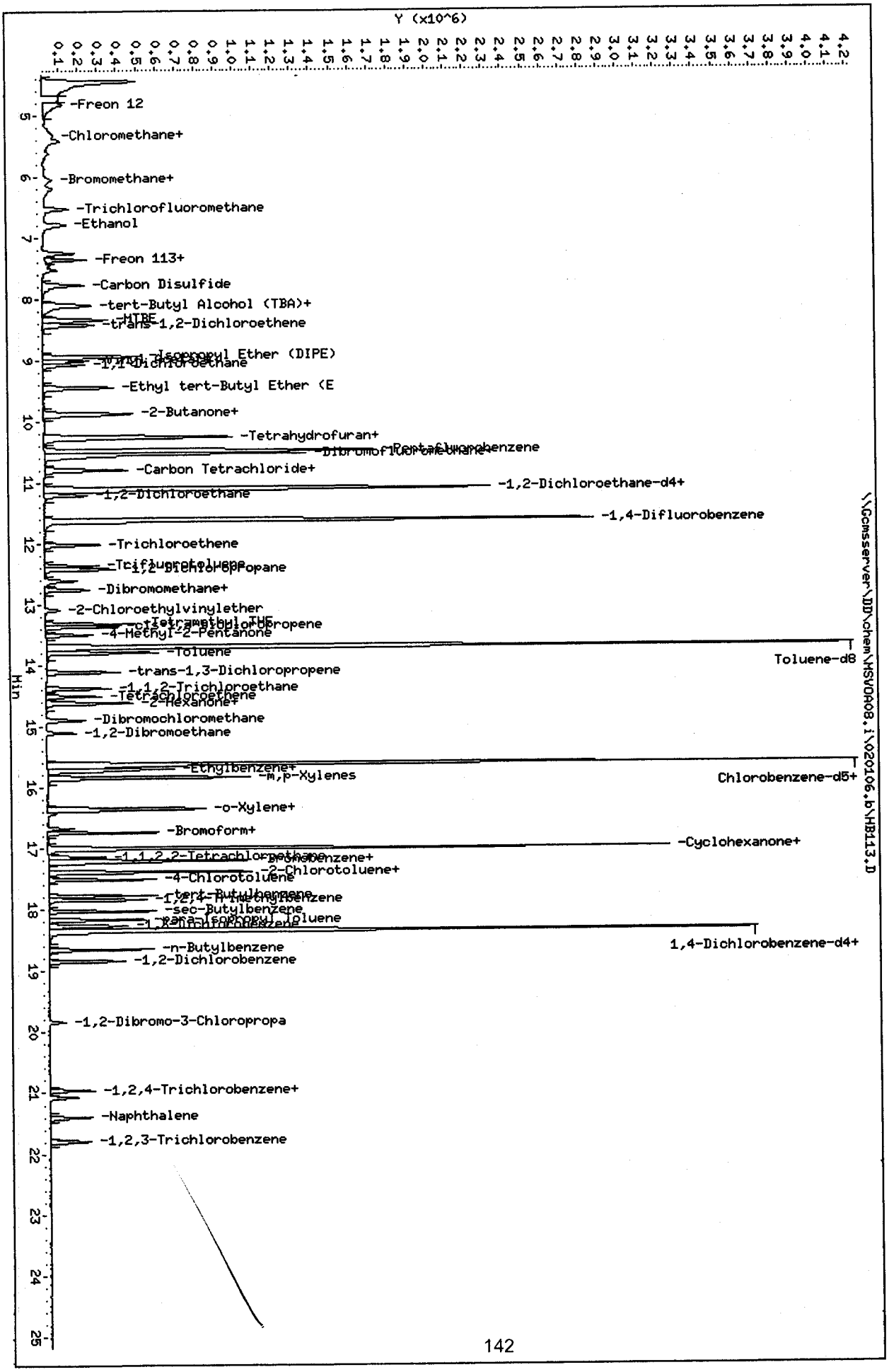
Column phase: RTX 624

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.25



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Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB114.D
Lab Smp Id:
Inj Date : 01-FEB-2006 18:24
Operator : LW
Smp Info : ICAL,S2349,0.004/100,S2552,0.004/100,
Misc Info : S2028,0.002/100,20 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target
Cal Date : 01-FEB-2006 18:24
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Client Smp ID: DYNA P&T
MS Autotune Date: 30-JAN-2006 09:15
Inst ID: MSVOA08.i
Quant Type: ISTD
Cal File: HB114.D
Calibration Sample, Level: 5
Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.823	4.823	(0.460)	370534	20.0000	21.4500
2 Chloromethane	50	5.314	5.324	(0.507)	499856	20.0000	20.4252
3 Vinyl Chloride	62	5.413	5.413	(0.517)	391868	20.0000	21.7719
4 Bromomethane	94	6.042	6.042	(0.577)	153992	20.0000	19.3350(M)
5 Chloroethane	64	6.200	6.190	(0.592)	225120	20.0000	21.2051(M)
6 Trichlorofluoromethane	101	6.524	6.534	(0.623)	302651	20.0000	23.0859
7 Ethanol	45	6.790	6.790	(0.648)	600749	2000.00	2097.4218(A)
8 Freon 113	101	7.242	7.252	(0.691)	236536	20.0000	20.3542
9 1,1-Dichloroethene	96	7.350	7.360	(0.702)	219803	20.0000	22.4680
10 Acetone	43	7.449	7.449	(0.711)	166976	20.0000	20.3392
11 Isopropanol	45	7.518	7.527	(0.717)	300282	200.000	206.9782(A)
12 Carbon Disulfide	76	7.764	7.773	(0.741)	1101938	20.0000	22.5659
13 tert-Butyl Alcohol (TBA)	59	8.078	8.077	(0.771)	338059	200.000	206.6040(A)
14 Methylene Chloride	84	8.108	8.108	(0.774)	311554	20.0000	19.6886
15 MTBE	73	8.334	8.334	(0.795)	824285	20.0000	20.8808
16 trans-1,2-Dichloroethene	96	8.423	8.422	(0.804)	258273	20.0000	20.9215
17 Isopropyl Ether (DIPE)	45	8.934	8.934	(0.853)	1437448	20.0000	21.1371(A)
18 Vinyl Acetate	43	9.003	9.003	(0.859)	1026604	20.0000	22.9999
19 1,1-Dichloroethane	63	9.062	9.072	(0.865)	565678	20.0000	20.8047
20 Ethyl tert-Butyl Ether (ETBE)	59	9.436	9.445	(0.901)	935339	20.0000	21.1456(A)
21 2-Butanone	43	9.849	9.849	(0.940)	251185	20.0000	20.2029
22 2,2-Dichloropropane	77	9.868	9.868	(0.942)	356072	20.0000	22.3832

LW 2-2-06

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB114.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.888	9.888	(0.944)	280591	20.0000	20.6842
	24 Tetrahydrofuran	42	10.252	10.252	(0.978)	1432475	200.000	217.3758(A)
	25 Bromochloromethane	128	10.252	10.262	(0.978)	129463	20.0000	20.9846
	26 Chloroform	83	10.281	10.281	(0.981)	480058	20.0000	21.2798
*	27 Pentafluorobenzene	168	10.478	10.478	(1.000)	1358661	50.0000	
$	28 Dibromofluoromethane	113	10.527	10.527	(1.005)	1067532	50.0000	50.5771
	29 1,1,1-Trichloroethane	97	10.577	10.576	(1.009)	320404	20.0000	22.5626
	30 Carbon Tetrachloride	117	10.773	10.773	(0.928)	247688	20.0000	19.9125
	31 1,1-Dichloropropene	75	10.793	10.793	(0.930)	370978	20.0000	20.2228
$	32 1,2-Dichloroethane-d4	65	11.088	11.088	(0.955)	1503527	50.0000	50.4739
	33 Benzene	78	11.108	11.108	(0.957)	1009727	20.0000	20.5809
	34 Methyl tert-Amyl Ether (TAME)	73	11.108	11.108	(0.957)	859185	20.0000	20.6381(A)
	35 1,2-Dichloroethane	62	11.196	11.206	(0.964)	422372	20.0000	20.7466
*	36 1,4-Difluorobenzene	114	11.609	11.609	(1.000)	2933280	50.0000	
	37 Trichloroethene	95	12.013	12.012	(1.035)	253014	20.0000	21.2957
$	38 Trifluorotoluene	146	12.357	12.367	(1.064)	257930	20.0000	19.7920(A)
	39 1,2-Dichloropropane	63	12.406	12.416	(1.069)	333500	20.0000	19.8441
	40 Dibromomethane	93	12.603	12.603	(1.086)	190970	20.0000	20.4969
	41 Bromodichloromethane	83	12.750	12.750	(1.098)	368427	20.0000	20.6672
	42 2-Chloroethylvinylether	63	13.085	13.085	(1.127)	102600	20.0000	20.8651
	43 Tetramethyl THF	43	13.311	13.311	(1.147)	884792	20.0000	21.3281(A)
	44 cis-1,3-Dichloropropene	75	13.360	13.360	(1.151)	479085	20.0000	20.7442
	45 4-Methyl-2-Pentanone	43	13.488	13.498	(1.162)	510252	20.0000	21.0145
$	46 Toluene-d8	98	13.694	13.694	(1.180)	3308192	50.0000	50.1187
	47 Toluene	92	13.783	13.783	(1.187)	562374	20.0000	21.3209
	48 trans-1,3-Dichloropropene	75	14.108	14.107	(1.215)	436119	20.0000	20.5361
	49 1,1,2-Trichloroethane	85	14.373	14.373	(1.238)	142090	20.0000	20.1888
	50 Tetrachloroethene	166	14.501	14.501	(0.929)	170143	20.0000	19.0015
	51 2-Hexanone	43	14.590	14.589	(0.934)	356790	20.0000	21.0969
	52 1,3-Dichloropropane	76	14.609	14.619	(0.936)	473653	20.0000	20.5838
	53 Dibromochloromethane	129	14.894	14.894	(0.954)	226745	20.0000	20.5457
	54 1,2-Dibromoethane	107	15.091	15.101	(1.300)	253136	20.0000	20.3797
*	55 Chlorobenzene-d5	117	15.612	15.612	(1.000)	2516018	50.0000	
	56 Chlorobenzene	112	15.652	15.652	(1.003)	573431	20.0000	20.7854
	57 Ethylbenzene	91	15.701	15.701	(1.006)	1005539	20.0000	21.5705
	58 1,1,1,2-Tetrachloroethane	131	15.730	15.730	(1.008)	190801	20.0000	20.5752
	59 m,p-Xylenes	106	15.839	15.839	(1.014)	710246	40.0000	43.9330
	60 o-Xylene	106	16.340	16.340	(1.047)	341185	20.0000	21.0697
	61 Styrene	104	16.360	16.360	(1.048)	622828	20.0000	21.2585
	62 Bromoform	173	16.665	16.665	(1.067)	142667	20.0000	19.5560
	63 Isopropylbenzene	105	16.734	16.734	(0.913)	865358	20.0000	22.2402
	64 Cyclohexanone	55	16.980	16.980	(0.926)	491556	200.000	178.6641(A)
$	65 Bromofluorobenzene	95	16.999	16.998	(0.927)	1421964	50.0000	49.8637
	66 1,1,2,2-Tetrachloroethane	83	17.137	17.137	(0.935)	392374	20.0000	20.7782
	67 Bromobenzene	156	17.206	17.206	(0.938)	200292	20.0000	20.4789
	68 Propylbenzene	91	17.206	17.206	(0.938)	1160802	20.0000	22.9864
	69 1,2,3-Trichloropropane	110	17.225	17.235	(0.939)	90271	20.0000	21.0233
	70 2-Chlorotoluene	91	17.383	17.383	(0.948)	770050	20.0000	21.4046
	71 1,3,5-Trimethylbenzene	105	17.383	17.383	(0.948)	696538	20.0000	22.1770
	72 4-Chlorotoluene	91	17.511	17.511	(0.955)	707232	20.0000	20.6482
	73 tert-Butylbenzene	119	17.766	17.766	(0.969)	544555	20.0000	19.6995
	74 1,2,4-Trimethylbenzene	105	17.835	17.835	(0.973)	696802	20.0000	21.3503
	75 sec-Butylbenzene	105	18.022	18.022	(0.983)	945752	20.0000	20.3408
	76 para-Isopropyl Toluene	119	18.160	18.160	(0.990)	681102	20.0000	20.1221

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB114.D
Report Date: 02-Feb-2006 10:44

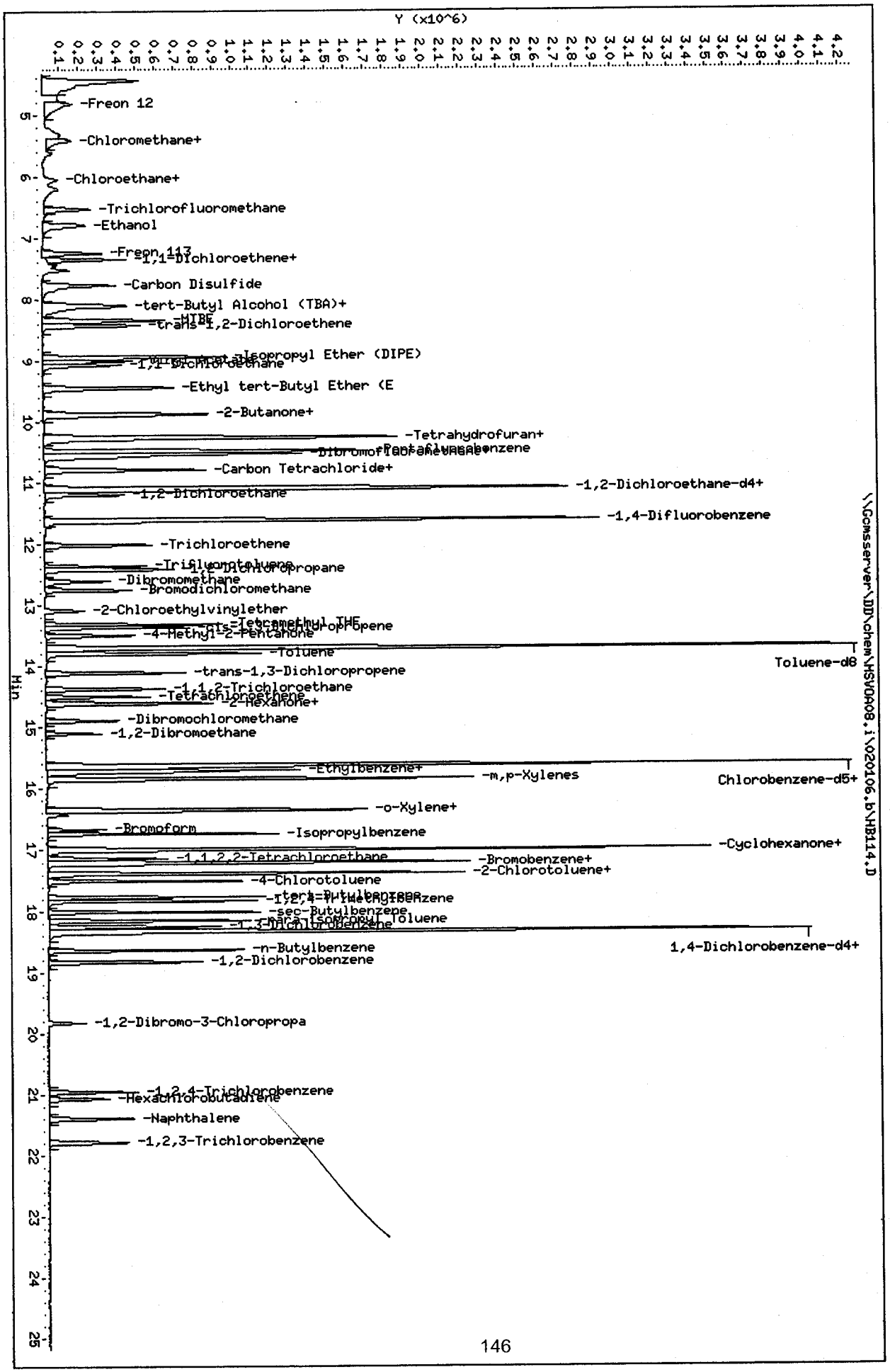
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.258	18.258	(0.996)	372191	20.0000	20.7545
* 78 1,4-Dichlorobenzene-d4	152	18.337	18.337	(1.000)	1093973	50.0000	
79 1,4-Dichlorobenzene	146	18.366	18.366	(1.002)	382797	20.0000	20.5355
80 n-Butylbenzene	91	18.642	18.642	(1.017)	719751	20.0000	20.2111
81 1,2-Dichlorobenzene	146	18.839	18.838	(1.027)	355931	20.0000	20.6637
82 1,2-Dibromo-3-Chloropropane	75	19.832	19.832	(1.082)	70163	20.0000	20.1436
83 1,2,4-Trichlorobenzene	180	20.963	20.963	(1.143)	181185	20.0000	21.0675
84 Hexachlorobutadiene	225	21.071	21.081	(1.149)	65458	20.0000	19.9946
85 Naphthalene	128	21.406	21.406	(1.167)	498087	20.0000	20.9256
86 1,2,3-Trichlorobenzene	180	21.799	21.799	(1.189)	177834	20.0000	21.2433

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA08.i\020106.b\HB114.D
Date : 01-FEB-2006 18:24
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.004/100,S2552,0.004/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB115.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB115.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 19:01 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.01/100,S2552,0.01/100,
Misc Info : S2028,0.005/100,50 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 19:01 Cal File: HB115.D
Als bottle: 15 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.823	4.823	(0.460)	930523	50.0000	52.4696
2 Chloromethane	50	5.325	5.324	(0.508)	1175821	50.0000	46.6114
3 Vinyl Chloride	62	5.413	5.413	(0.517)	980764	50.0000	52.8628
4 Bromomethane	94	6.043	6.042	(0.577)	441750	50.0000	50.5342
5 Chloroethane	64	6.190	6.190	(0.591)	546119	50.0000	49.9047
6 Trichlorofluoromethane	101	6.535	6.534	(0.624)	739563	50.0000	54.7278
7 Ethanol	45	6.790	6.790	(0.648)	1539156	5000.00	5213.1913(A)
8 Freon 113	101	7.243	7.252	(0.691)	632279	50.0000	51.5437
9 1,1-Dichloroethene	96	7.351	7.360	(0.702)	576376	50.0000	57.1565
10 Acetone	43	7.449	7.449	(0.711)	450956	50.0000	53.2895
11 Isopropanol	45	7.518	7.527	(0.717)	758858	500.000	507.4394(A)
12 Carbon Disulfide	76	7.774	7.773	(0.742)	2780929	50.0000	55.2478
13 tert-Butyl Alcohol (TBA)	59	8.079	8.077	(0.771)	837835	500.000	496.7445(A)
14 Methylene Chloride	84	8.108	8.108	(0.774)	759445	50.0000	46.5594
15 MTBE	73	8.335	8.334	(0.795)	2039223	50.0000	50.1145
16 trans-1,2-Dichloroethene	96	8.423	8.422	(0.804)	661330	50.0000	51.9709
17 Isopropyl Ether (DIPE)	45	8.935	8.934	(0.853)	3499392	50.0000	49.9200(A)
18 Vinyl Acetate	43	9.003	9.003	(0.859)	2261476	50.0000	49.1524
19 1,1-Dichloroethane	63	9.062	9.072	(0.865)	1438888	50.0000	51.3391
20 Ethyl tert-Butyl Ether (ETBE)	59	9.436	9.445	(0.901)	2275451	50.0000	49.9054(A)
21 2-Butanone	43	9.849	9.849	(0.940)	643547	50.0000	50.2144
22 2,2-Dichloropropane	77	9.869	9.868	(0.942)	890150	50.0000	54.2845

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB115.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.889	9.888	(0.944)	713135	50.0000	50.9994
	24 Tetrahydrofuran	42	10.243	10.252	(0.977)	3278732	500.000	482.6789(A)
	25 Bromochloromethane	128	10.253	10.262	(0.978)	328166	50.0000	51.6033
	26 Chloroform	83	10.282	10.281	(0.981)	1172293	50.0000	50.4126
*	27 Pentafluorobenzene	168	10.479	10.478	(1.000)	1400499	50.0000	
$	28 Dibromofluoromethane	113	10.528	10.527	(1.005)	1064198	50.0000	48.9130
	29 1,1,1-Trichloroethane	97	10.577	10.576	(1.009)	808443	50.0000	55.2293
	30 Carbon Tetrachloride	117	10.774	10.773	(0.928)	651188	50.0000	51.5380
	31 1,1-Dichloropropene	75	10.794	10.793	(0.930)	965766	50.0000	52.2504
$	32 1,2-Dichloroethane-d4	65	11.089	11.088	(0.955)	1423605	50.0000	47.6134
	33 Benzene	78	11.108	11.108	(0.957)	2499318	50.0000	50.7535
	34 Methyl tert-Amyl Ether (TAME)	73	11.108	11.108	(0.957)	2075934	50.0000	49.6800(A)
	35 1,2-Dichloroethane	62	11.197	11.206	(0.964)	1021991	50.0000	50.0131
*	36 1,4-Difluorobenzene	114	11.610	11.609	(1.000)	2944215	50.0000	
	37 Trichloroethene	95	12.013	12.012	(1.035)	659004	50.0000	55.2611
$	38 Trifluorotoluene	146	12.357	12.367	(1.064)	700214	50.0000	53.2214(A)
	39 1,2-Dichloropropane	63	12.416	12.416	(1.069)	859352	50.0000	50.9438
	40 Dibromomethane	93	12.603	12.603	(1.086)	474736	50.0000	50.7644
	41 Bromodichloromethane	83	12.751	12.750	(1.098)	903105	50.0000	50.4723
	42 2-Chloroethylvinylether	63	13.085	13.085	(1.127)	284057	50.0000	51.8316
	43 Tetramethyl THF	43	13.311	13.311	(1.147)	2049600	50.0000	49.2226(A)
	44 cis-1,3-Dichloropropene	75	13.361	13.360	(1.151)	1163617	50.0000	50.1970
	45 4-Methyl-2-Pentanone	43	13.489	13.498	(1.162)	1204172	50.0000	49.4092
$	46 Toluene-d8	98	13.695	13.694	(1.180)	3305867	50.0000	49.8975
	47 Toluene	92	13.784	13.783	(1.187)	1434889	50.0000	54.1980
	48 trans-1,3-Dichloropropene	75	14.108	14.107	(1.215)	1091556	50.0000	51.2087
	49 1,1,2-Trichloroethane	85	14.364	14.373	(1.237)	359269	50.0000	50.8572
	50 Tetrachloroethene	166	14.502	14.501	(0.929)	478205	50.0000	52.9461
	51 2-Hexanone	43	14.590	14.589	(0.934)	890139	50.0000	52.8961
	52 1,3-Dichloropropane	76	14.610	14.619	(0.936)	1172514	50.0000	51.2085
	53 Dibromochloromethane	129	14.895	14.894	(0.954)	578799	50.0000	52.7071
	54 1,2-Dibromoethane	107	15.092	15.101	(1.300)	641776	50.0000	51.4770
*	55 Chlorobenzene-d5	117	15.613	15.612	(1.000)	2503542	50.0000	
	56 Chlorobenzene	112	15.652	15.652	(1.003)	1434281	50.0000	52.2481
	57 Ethylbenzene	91	15.702	15.701	(1.006)	2557589	50.0000	55.1381
	58 1,1,1,2-Tetrachloroethane	131	15.731	15.730	(1.008)	501249	50.0000	54.3221
	59 m,p-Xylenes	106	15.839	15.839	(1.014)	1835678	100.000	114.1138
	60 o-Xylene	106	16.341	16.340	(1.047)	900267	50.0000	55.8726
	61 Styrene	104	16.361	16.360	(1.048)	1590205	50.0000	54.5477
	62 Bromoform	173	16.665	16.665	(1.067)	376526	50.0000	51.8693
	63 Isopropylbenzene	105	16.734	16.734	(0.913)	2244024	50.0000	56.7747
	64 Cyclohexanone	55	16.980	16.980	(0.926)	1537428	500.000	550.1016(A)
$	65 Bromofluorobenzene	95	17.000	16.998	(0.927)	1419289	50.0000	48.9949
	66 1,1,2,2-Tetrachloroethane	83	17.138	17.137	(0.935)	952550	50.0000	49.6568
	67 Bromobenzene	156	17.206	17.206	(0.938)	523550	50.0000	52.6969
	68 Propylbenzene	91	17.206	17.206	(0.938)	2861439	50.0000	55.7803
	69 1,2,3-Trichloropropane	110	17.236	17.235	(0.940)	224342	50.0000	51.4338
	70 2-Chlorotoluene	91	17.383	17.383	(0.948)	1897470	50.0000	51.9216
	71 1,3,5-Trimethylbenzene	105	17.383	17.383	(0.948)	1800848	50.0000	56.4443
	72 4-Chlorotoluene	91	17.511	17.511	(0.955)	1806715	50.0000	51.9271
	73 tert-Butylbenzene	119	17.767	17.766	(0.969)	1468737	50.0000	51.5595
	74 1,2,4-Trimethylbenzene	105	17.836	17.835	(0.973)	1770801	50.0000	53.4133
	75 sec-Butylbenzene	105	18.023	18.022	(0.983)	2479542	50.0000	51.9800
	76 para-Isopropyl Toluene	119	18.160	18.160	(0.990)	1815332	50.0000	52.2167

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB115.D
Report Date: 02-Feb-2006 10:44

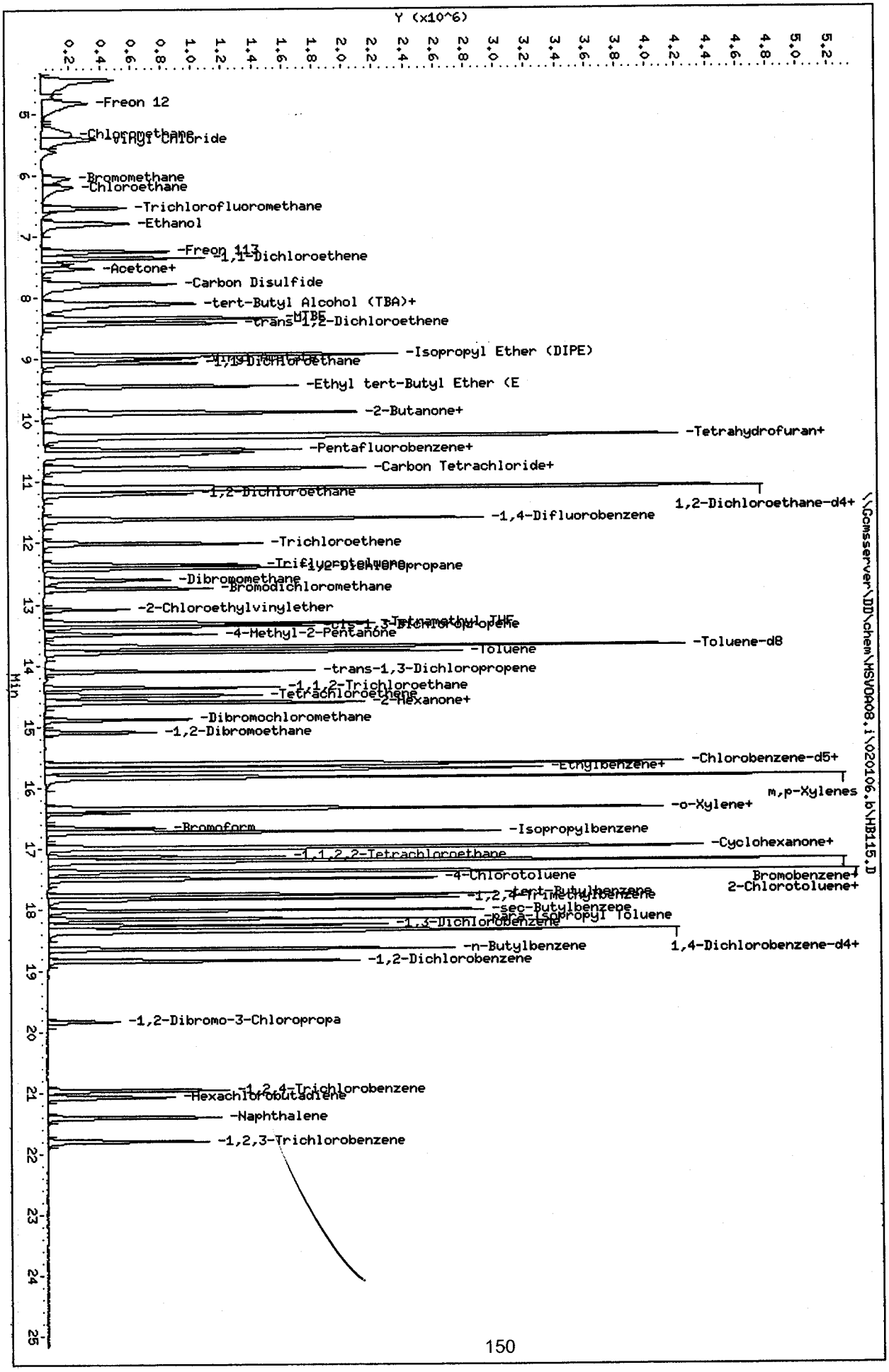
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.259	18.258	(0.996)	953114	50.0000	52.3211
* 78 1,4-Dichlorobenzene-d4	152	18.338	18.337	(1.000)	1111278	50.0000	
79 1,4-Dichlorobenzene	146	18.367	18.366	(1.002)	988301	50.0000	52.1928
80 n-Butylbenzene	91	18.642	18.642	(1.017)	1886532	50.0000	51.8217
81 1,2-Dichlorobenzene	146	18.839	18.838	(1.027)	914453	50.0000	52.2622
82 1,2-Dibromo-3-Chloropropane	75	19.833	19.832	(1.082)	172714	50.0000	48.8137
83 1,2,4-Trichlorobenzene	180	20.964	20.963	(1.143)	475177	50.0000	54.3914
84 Hexachlorobutadiene	225	21.072	21.081	(1.149)	181360	50.0000	54.1542
85 Naphthalene	128	21.406	21.406	(1.167)	1296655	50.0000	53.6269
86 1,2,3-Trichlorobenzene	180	21.800	21.799	(1.189)	453418	50.0000	53.3200

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Comsserver\DD\chem\MSVOA08.i\020106.b\HB115.D
Date : 01-FEB-2006 19:01
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.01/100,S2552,0.01/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB116.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB116.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 19:39 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.015/100,S2552,0.015/100,
Misc Info : S2028,0.0075/100,75 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 19:39 Cal File: HB116.D
Als bottle: 16 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.828	4.823	(0.461)	1400535	75.0000	72.8279
2 Chloromethane	50	5.320	5.324	(0.507)	1696018	75.0000	61.9533
3 Vinyl Chloride	62	5.418	5.413	(0.517)	1450595	75.0000	72.0469
4 Bromomethane	94	6.047	6.042	(0.577)	735794	75.0000	74.8099
5 Chloroethane	64	6.185	6.190	(0.590)	795573	75.0000	66.9912
6 Trichlorofluoromethane	101	6.539	6.534	(0.624)	1134715	75.0000	77.3755
7 Ethanol	45	6.795	6.790	(0.648)	2241621	7500.00	6996.2725(A)
8 Freon 113	101	7.247	7.252	(0.691)	987506	75.0000	73.8389
9 1,1-Dichloroethene	96	7.356	7.360	(0.702)	884379	75.0000	80.8131
10 Acetone	43	7.454	7.449	(0.711)	644726	75.0000	70.2048
11 Isopropanol	45	7.523	7.527	(0.718)	1113298	750.000	685.9914(A)
12 Carbon Disulfide	76	7.779	7.773	(0.742)	4197601	75.0000	76.8440
13 tert-Butyl Alcohol (TBA)	59	8.074	8.077	(0.770)	1246291	750.000	680.8909(A)
14 Methylene Chloride	84	8.103	8.108	(0.773)	1151613	75.0000	65.0580
15 MTBE	73	8.339	8.334	(0.795)	3039519	75.0000	68.8315
16 trans-1,2-Dichloroethene	96	8.418	8.422	(0.803)	1041797	75.0000	75.4412
17 Isopropyl Ether (DIPE)	45	8.939	8.934	(0.853)	5059444	75.0000	66.5071(A)
18 Vinyl Acetate	43	9.008	9.003	(0.859)	3326798	75.0000	66.6289
19 1,1-Dichloroethane	63	9.067	9.072	(0.865)	2174728	75.0000	71.5006
20 Ethyl tert-Butyl Ether (ETBE)	59	9.441	9.445	(0.901)	3402434	75.0000	68.7628(A)
21 2-Butanone	43	9.844	9.849	(0.939)	952040	75.0000	68.4522
22 2,2-Dichloropropane	77	9.864	9.868	(0.941)	1329758	75.0000	74.7255

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB116.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.883	9.888	(0.943)	1109240	75.0000	73.0975
	24 Tetrahydrofuran	42	10.247	10.252	(0.977)	4579364	750.000	621.2138(A)
	25 Bromochloromethane	128	10.257	10.262	(0.978)	504685	75.0000	73.1287
	26 Chloroform	83	10.287	10.281	(0.981)	1765409	75.0000	69.9572
*	27 Pentafluorobenzene	168	10.483	10.478	(1.000)	1519845	50.0000	
$	28 Dibromofluoromethane	113	10.533	10.527	(1.005)	1139431	50.0000	48.2584
	29 1,1,1-Trichloroethane	97	10.572	10.576	(1.008)	1264688	75.0000	79.6135
	30 Carbon Tetrachloride	117	10.778	10.773	(0.928)	1004406	75.0000	73.9139
	31 1,1-Dichloropropene	75	10.788	10.793	(0.929)	1454989	75.0000	73.3085
$	32 1,2-Dichloroethane-d4	65	11.083	11.088	(0.954)	1470530	50.0000	45.8343
	33 Benzene	78	11.113	11.108	(0.957)	3844036	75.0000	72.7460
	34 Methyl tert-Amyl Ether (TAME)	73	11.103	11.108	(0.956)	3158348	75.0000	70.4377(A)
	35 1,2-Dichloroethane	62	11.201	11.206	(0.964)	1508905	75.0000	68.8139
*	36 1,4-Difluorobenzene	114	11.615	11.609	(1.000)	3159310	50.0000	
	37 Trichloroethene	95	12.008	12.012	(1.034)	1034412	75.0000	80.8356
$	38 Trifluorotoluene	146	12.362	12.367	(1.064)	1119754	75.0000	79.2261(A)
	39 1,2-Dichloropropane	63	12.411	12.416	(1.069)	1293477	75.0000	71.4590
	40 Dibromomethane	93	12.598	12.603	(1.085)	719256	75.0000	71.6750
	41 Bromodichloromethane	83	12.746	12.750	(1.097)	1367057	75.0000	71.1998
	42 2-Chloroethylvinylether	63	13.080	13.085	(1.126)	457977	75.0000	72.8472
	43 Tetramethyl THF	43	13.306	13.311	(1.146)	3014937	75.0000	67.4763(A)
	44 cis-1,3-Dichloropropene	75	13.365	13.360	(1.151)	1798807	75.0000	72.3153
	45 4-Methyl-2-Pentanone	43	13.493	13.498	(1.162)	1855196	75.0000	70.9392
$	46 Toluene-d8	98	13.690	13.694	(1.179)	3531505	50.0000	49.6742
	47 Toluene	92	13.788	13.783	(1.187)	2194158	75.0000	77.2343
	48 trans-1,3-Dichloropropene	75	14.103	14.107	(1.214)	1622425	75.0000	70.9316
	49 1,1,2-Trichloroethane	85	14.369	14.373	(1.237)	546467	75.0000	72.0898
	50 Tetrachloroethene	166	14.496	14.501	(0.928)	769850	75.0000	78.3924
	51 2-Hexanone	43	14.585	14.589	(0.934)	1302146	75.0000	71.3410
	52 1,3-Dichloropropane	76	14.614	14.619	(0.936)	1783997	75.0000	71.8343
	53 Dibromochloromethane	129	14.890	14.894	(0.953)	907798	75.0000	76.2157
	54 1,2-Dibromoethane	107	15.096	15.101	(1.300)	1013080	75.0000	75.7270
*	55 Chlorobenzene-d5	117	15.618	15.612	(1.000)	2715447	50.0000	
	56 Chlorobenzene	112	15.657	15.652	(1.003)	2235537	75.0000	75.0813
	57 Ethylbenzene	91	15.706	15.701	(1.006)	3794281	75.0000	75.4161
	58 1,1,1,2-Tetrachloroethane	131	15.736	15.730	(1.008)	772359	75.0000	77.1713
	59 m,p-Xylenes	106	15.844	15.839	(1.014)	2712176	150.000	155.4437
	60 o-Xylene	106	16.336	16.340	(1.046)	1361238	75.0000	77.8889
	61 Styrene	104	16.365	16.360	(1.048)	2393581	75.0000	75.6982
	62 Bromoform	173	16.660	16.665	(1.067)	585748	75.0000	74.3944
	63 Isopropylbenzene	105	16.729	16.734	(0.913)	3366424	75.0000	80.2459
	64 Cyclohexanone	55	16.975	16.980	(0.926)	2162872	750.000	729.1311(A)
$	65 Bromofluorobenzene	95	16.995	16.998	(0.927)	1465051	50.0000	47.6496
	66 1,1,2,2-Tetrachloroethane	83	17.132	17.137	(0.935)	1449341	75.0000	71.1850
	67 Bromobenzene	156	17.211	17.206	(0.939)	805064	75.0000	76.3456
	68 Propylbenzene	91	17.201	17.206	(0.938)	4185658	75.0000	76.8754
	69 1,2,3-Trichloropropane	110	17.231	17.235	(0.940)	340834	75.0000	73.6219
	70 2-Chlorotoluene	91	17.378	17.383	(0.948)	2708826	75.0000	69.8363
	71 1,3,5-Trimethylbenzene	105	17.388	17.383	(0.948)	2583990	75.0000	76.3064
	72 4-Chlorotoluene	91	17.506	17.511	(0.955)	2698191	75.0000	73.0641
	73 tert-Butylbenzene	119	17.772	17.766	(0.969)	2242786	75.0000	73.9811
	74 1,2,4-Trimethylbenzene	105	17.831	17.835	(0.973)	2689552	75.0000	76.4340
	75 sec-Butylbenzene	105	18.018	18.022	(0.983)	3728522	75.0000	73.5057
	76 para-Isopropyl Toluene	119	18.165	18.160	(0.991)	2714389	75.0000	73.4160

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB116.D
Report Date: 02-Feb-2006 10:44

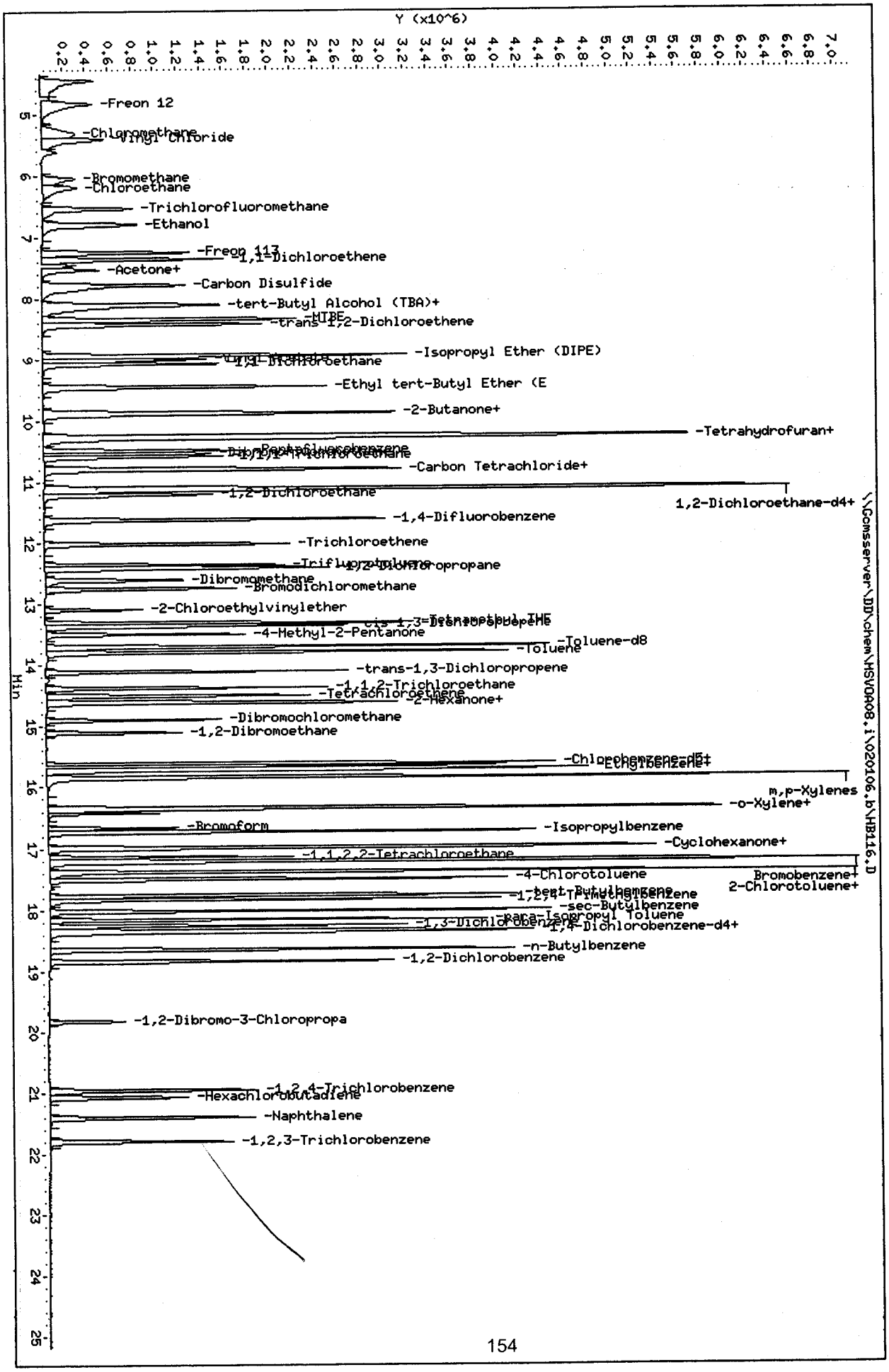
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.263	18.258	(0.996)	1483916	75.0000	76.7481
* 78 1,4-Dichlorobenzene-d4	152	18.332	18.337	(1.000)	1179495	50.0000	
79 1,4-Dichlorobenzene	146	18.362	18.366	(1.002)	1551083	75.0000	77.1761
80 n-Butylbenzene	91	18.647	18.642	(1.017)	2847787	75.0000	73.6147
81 1,2-Dichlorobenzene	146	18.834	18.838	(1.027)	1419114	75.0000	76.4136
82 1,2-Dibromo-3-Chloropropane	75	19.827	19.832	(1.082)	254496	75.0000	67.7675
83 1,2,4-Trichlorobenzene	180	20.958	20.963	(1.143)	748794	75.0000	80.7539
84 Hexachlorobutadiene	225	21.076	21.081	(1.150)	283764	75.0000	79.7270
85 Naphthalene	128	21.401	21.406	(1.167)	2016599	75.0000	78.5786
86 1,2,3-Trichlorobenzene	180	21.794	21.799	(1.189)	716069	75.0000	79.3365

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Comsserver\DD\chem\MSVOA08.i\020106.b\HB116.D
Date : 01-FEB-2006 19:39
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.015/100,S2552,0.015/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB117.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB117.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 20:16 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.02/100,S2552,0.02/100,
Misc Info : S2028,0.01/100,100 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 20:16 Cal File: HB117.D
Als bottle: 17 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.822	4.823	(0.460)	1776530	100.000	93.3652
2 Chloromethane	50	5.324	5.324	(0.508)	2132188	100.000	78.6820
3 Vinyl Chloride	62	5.412	5.413	(0.517)	1834927	100.000	92.0670
4 Bromomethane	94	6.042	6.042	(0.577)	968540	100.000	96.3000
5 Chloroethane	64	6.189	6.190	(0.591)	1004241	100.000	85.4263
6 Trichlorofluoromethane	101	6.533	6.534	(0.624)	1422621	100.000	97.9990
7 Ethanol	45	6.789	6.790	(0.648)	3055950	10000.0	9635.3289(A)
8 Freon 113	101	7.251	7.252	(0.692)	1108421	100.000	83.6229
9 1,1-Dichloroethene	96	7.360	7.360	(0.702)	1075675	100.000	99.2980
10 Acetone	43	7.448	7.449	(0.711)	869729	100.000	95.6734
11 Isopropanol	45	7.527	7.527	(0.718)	1537242	1000.00	956.8971(A)
12 Carbon Disulfide	76	7.773	7.773	(0.742)	5125387	100.000	94.7875
13 tert-Butyl Alcohol (TBA)	59	8.078	8.077	(0.771)	1706326	1000.00	941.7505(A)
14 Methylene Chloride	84	8.107	8.108	(0.774)	1518439	100.000	86.6578
15 MTBE	73	8.333	8.334	(0.795)	3966773	100.000	90.7477
16 trans-1,2-Dichloroethene	96	8.422	8.422	(0.804)	1307904	100.000	95.6792
17 Isopropyl Ether (DIPE)	45	8.933	8.934	(0.853)	6339864	100.000	84.1901(A)
18 Vinyl Acetate	43	9.002	9.003	(0.859)	3833128	100.000	77.5542
19 1,1-Dichloroethane	63	9.071	9.072	(0.866)	2674419	100.000	88.8280
20 Ethyl tert-Butyl Ether (ETBE)	59	9.445	9.445	(0.901)	4264998	100.000	87.0760(A)
21 2-Butanone	43	9.848	9.849	(0.940)	1237107	100.000	89.8577
22 2,2-Dichloropropane	77	9.868	9.868	(0.942)	1516752	100.000	86.1047

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB117.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.887	9.888	(0.944)	1417937	100.000	94.3951
	24 Tetrahydrofuran	42	10.251	10.252	(0.978)	5687343	1000.00	779.4013(A)
	25 Bromochloromethane	128	10.261	10.262	(0.979)	660911	100.000	96.7444
	26 Chloroform	83	10.281	10.281	(0.981)	2200936	100.000	88.1069
*	27 Pentafluorobenzene	168	10.478	10.478	(1.000)	1504470	50.0000	
$	28 Dibromofluoromethane	113	10.527	10.527	(1.005)	1119896	50.0000	47.9158
	29 1,1,1-Trichloroethane	97	10.576	10.576	(1.009)	1500750	100.000	95.4394
	30 Carbon Tetrachloride	117	10.773	10.773	(0.928)	1153194	100.000	86.8638
	31 1,1-Dichloropropene	75	10.792	10.793	(0.930)	1681016	100.000	86.7376
$	32 1,2-Dichloroethane-d4	65	11.087	11.088	(0.955)	1355257	50.0000	43.2708
	33 Benzene	78	11.107	11.108	(0.957)	4600256	100.000	89.1784
	34 Methyl tert-Amyl Ether (TAME)	73	11.107	11.108	(0.957)	3887743	100.000	88.8176(A)
	35 1,2-Dichloroethane	62	11.205	11.206	(0.965)	1905532	100.000	89.0197
*	36 1,4-Difluorobenzene	114	11.609	11.609	(1.000)	3084156	50.0000	
	37 Trichloroethene	95	12.012	12.012	(1.035)	1279140	100.000	102.3960
$	38 Trifluorotoluene	146	12.366	12.367	(1.065)	1307917	100.000	94.7586(A)
	39 1,2-Dichloropropane	63	12.415	12.416	(1.069)	1655848	100.000	93.7075
	40 Dibromomethane	93	12.602	12.603	(1.086)	954795	100.000	97.4654
	41 Bromodichloromethane	83	12.750	12.750	(1.098)	1803115	100.000	96.1992
	42 2-Chloroethylvinylether	63	13.084	13.085	(1.127)	689380	100.000	100.5472
	43 Tetramethyl THF	43	13.310	13.311	(1.147)	3819284	100.000	87.5611(A)
	44 cis-1,3-Dichloropropene	75	13.359	13.360	(1.151)	2306116	100.000	94.9692
	45 4-Methyl-2-Pentanone	43	13.497	13.498	(1.163)	2435972	100.000	95.4168
$	46 Toluene-d8	98	13.694	13.694	(1.180)	3416483	50.0000	49.2273
	47 Toluene	92	13.782	13.783	(1.187)	2718172	100.000	98.0111
	48 trans-1,3-Dichloropropene	75	14.107	14.107	(1.215)	2104101	100.000	94.2318
	49 1,1,2-Trichloroethane	85	14.373	14.373	(1.238)	710438	100.000	96.0046
	50 Tetrachloroethene	166	14.500	14.501	(0.929)	924385	100.000	95.8411
	51 2-Hexanone	43	14.589	14.589	(0.934)	1740655	100.000	97.1910
	52 1,3-Dichloropropane	76	14.618	14.619	(0.936)	2265471	100.000	92.9673
	53 Dibromochloromethane	129	14.894	14.894	(0.954)	1198396	100.000	102.5391
	54 1,2-Dibromoethane	107	15.100	15.101	(1.301)	1310382	100.000	100.3369
*	55 Chlorobenzene-d5	117	15.612	15.612	(1.000)	2664450	50.0000	
	56 Chlorobenzene	112	15.651	15.652	(1.003)	2818310	100.000	96.4656
	57 Ethylbenzene	91	15.700	15.701	(1.006)	4586806	100.000	92.9135
	58 1,1,1,2-Tetrachloroethane	131	15.730	15.730	(1.008)	1009760	100.000	102.8225
	59 m,p-Xylenes	106	15.838	15.839	(1.014)	3321356	200.000	194.0012
	60 o-Xylene	106	16.340	16.340	(1.047)	1691413	100.000	98.6336
	61 Styrene	104	16.359	16.360	(1.048)	3009471	100.000	96.9977
	62 Bromoform	173	16.664	16.665	(1.067)	788196	100.000	102.0228
	63 Isopropylbenzene	105	16.733	16.734	(0.913)	3996927	100.000	95.2507
	64 Cyclohexanone	55	16.979	16.980	(0.926)	2877926	1000.00	969.9339(A)
$	65 Bromofluorobenzene	95	16.999	16.998	(0.927)	1425849	50.0000	46.3626
	66 1,1,2,2-Tetrachloroethane	83	17.136	17.137	(0.935)	1873714	100.000	92.0045
	67 Bromobenzene	156	17.205	17.206	(0.938)	1043589	100.000	98.9398
	68 Propylbenzene	91	17.205	17.206	(0.938)	4830224	100.000	88.6908
	69 1,2,3-Trichloropropane	110	17.235	17.235	(0.940)	449564	100.000	97.0831
	70 2-Chlorotoluene	91	17.382	17.383	(0.948)	3301948	100.000	85.1056
	71 1,3,5-Trimethylbenzene	105	17.382	17.383	(0.948)	3133557	100.000	92.5114
	72 4-Chlorotoluene	91	17.510	17.511	(0.955)	3346354	100.000	90.5922
	73 tert-Butylbenzene	119	17.766	17.766	(0.969)	2651945	100.000	87.3731
	74 1,2,4-Trimethylbenzene	105	17.835	17.835	(0.973)	3332495	100.000	94.6812
	75 sec-Butylbenzene	105	18.022	18.022	(0.983)	4263217	100.000	83.9783
	76 para-Isopropyl Toluene	119	18.159	18.160	(0.990)	3273595	100.000	88.4445

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB117.D
Report Date: 02-Feb-2006 10:44

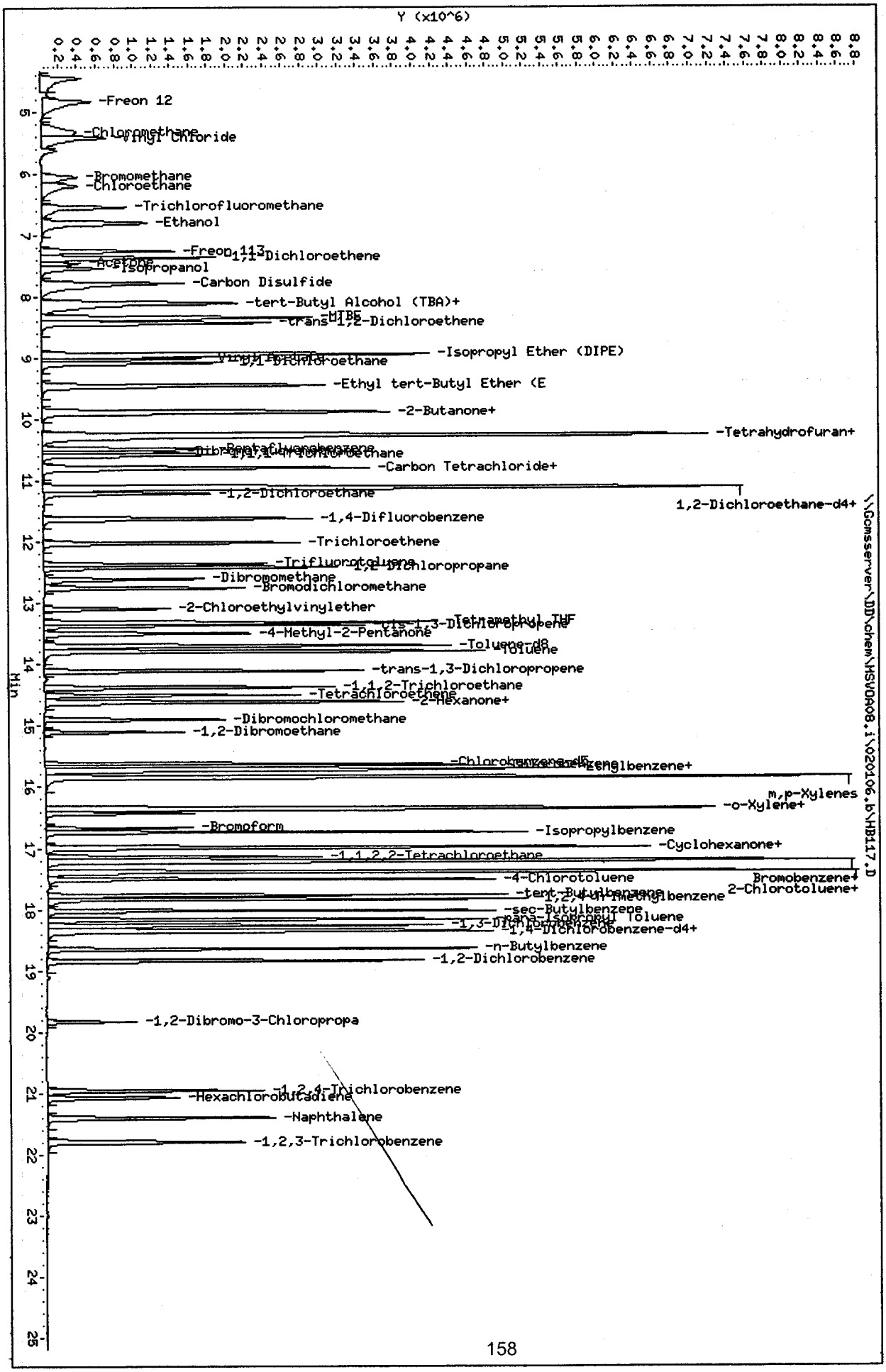
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.258	18.258	(0.996)	1929052	100.000	99.7448
* 78 1,4-Dichlorobenzene-d4	152	18.336	18.337	(1.000)	1179800	50.0000	
79 1,4-Dichlorobenzene	146	18.366	18.366	(1.002)	2006074	100.000	99.7890
80 n-Butylbenzene	91	18.641	18.642	(1.017)	3358910	100.000	86.7675
81 1,2-Dichlorobenzene	146	18.838	18.838	(1.027)	1867970	100.000	100.5567
82 1,2-Dibromo-3-Chloropropane	75	19.831	19.832	(1.082)	342563	100.000	91.1946
83 1,2,4-Trichlorobenzene	180	20.962	20.963	(1.143)	975697	100.000	105.1971
84 Hexachlorobutadiene	225	21.081	21.081	(1.150)	333494	100.000	93.6364
85 Naphthalene	128	21.405	21.406	(1.167)	2825061	100.000	110.0526
86 1,2,3-Trichlorobenzene	180	21.799	21.799	(1.189)	971703	100.000	107.6315

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB117.D
Date : 01-FEB-2006 20:16
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.02/100,S2552,0.02/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.25



CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA08 Run Name: 20 PPB IDF : 1.0
Seqnum : 476098405003 File : hc903 Time : 09-MAR-2006 09:03
Cal : 476046588001 Caldate : 01-FEB-2006 Caltype : WATER
Standards: S2661 (25000X), S2783 (25000X), S2410 (50000X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.5796	0.5239	20.00	16.45	ug/L	-18	30	0.0500	
Chloromethane	0.9006	0.8799	20.00	19.54	ug/L	-2	30	0.1000	
Vinyl Chloride	0.6624	0.7318	20.00	22.10	ug/L	10	20	0.0500	
Bromomethane	0.2589	0.2396	20.00	16.53	ug/L	-17	30	0.0500	m
Chloroethane	0.3907	0.4142	20.00	21.20	ug/L	6	30	0.0500	
Trichlorofluoromethane	0.4825	0.5763	20.00	23.89	ug/L	19	30	0.0500	
Acetone	0.3021	0.3236	20.00	21.42	ug/L	7	40	0.0500	
Freon 113	0.3302	0.4232	20.00	19.81	ug/L	-1	30	0.0500	
1,1-Dichloroethene	0.3600	0.3668	20.00	20.38	ug/L	2	20	0.0500	
Methylene Chloride	0.5823	0.5226	20.00	17.95	ug/L	-10	30	0.0500	
Carbon Disulfide	1.7971	1.8757	20.00	20.87	ug/L	4	30	0.0500	
MTBE	1.4527	1.5312	20.00	21.08	ug/L	5	30	0.0500	
trans-1,2-Dichloroethene	0.4543	0.4505	20.00	19.83	ug/L	-1	30	0.0500	
Vinyl Acetate	1.6426	2.0951	20.00	25.51	ug/L	28	40	0.0500	
1,1-Dichloroethane	1.0006	1.0474	20.00	20.94	ug/L	5	30	0.1000	
2-Butanone	0.4575	0.4619	20.00	20.19	ug/L	1	40	0.0500	
2,2-Dichloropropane	0.5854	0.6792	20.00	23.20	ug/L	16	30	0.0500	
cis-1,2-Dichloroethene	0.4992	0.4926	20.00	19.73	ug/L	-1	30	0.0500	
Chloroform	0.8302	0.8774	20.00	21.14	ug/L	6	20	0.0500	
Bromochloromethane	0.2270	0.2232	20.00	19.66	ug/L	-2	30	0.0500	
1,1,1-Trichloroethane	0.5226	0.5773	20.00	22.09	ug/L	10	30	0.0500	
1,1-Dichloropropene	0.2840	0.3048	20.00	19.50	ug/L	-2	30	0.0500	
Carbon Tetrachloride	0.1859	0.1980	20.00	18.70	ug/L	-7	30	0.0500	
1,2-Dichloroethane	0.3470	0.3536	20.00	20.38	ug/L	2	30	0.0500	
Benzene	0.8363	0.8560	20.00	20.47	ug/L	2	30	0.0500	
Trichloroethene	0.2025	0.2002	20.00	19.77	ug/L	-1	30	0.0500	
1,2-Dichloropropane	0.2865	0.2849	20.00	19.89	ug/L	-1	20	0.0500	
Bromodichloromethane	0.3039	0.2996	20.00	19.72	ug/L	-1	30	0.0500	
Dibromomethane	0.1588	0.1544	20.00	19.45	ug/L	-3	30	0.0500	
2-Chloroethylvinylether	0.0733	0.0595	20.00	14.72	ug/L	-26	40	0.0500	
4-Methyl-2-Pentanone	0.4139	0.3985	20.00	19.26	ug/L	-4	40	0.0500	
Tetramethyl THF	0.7071	0.7765	20.00	21.96	ug/L	10	30	0.0500	
cis-1,3-Dichloropropene	0.3937	0.3875	20.00	19.68	ug/L	-2	30	0.0500	
Toluene	0.4496	0.4419	20.00	19.66	ug/L	-2	20	0.0500	
trans-1,3-Dichloropropene	0.3620	0.3534	20.00	19.52	ug/L	-2	30	0.0500	
1,1,2-Trichloroethane	0.1200	0.1131	20.00	18.85	ug/L	-6	30	0.0500	
2-Hexanone	0.3361	0.3200	20.00	19.05	ug/L	-5	40	0.0500	
1,3-Dichloropropane	0.4573	0.4515	20.00	19.75	ug/L	-1	30	0.0500	
Tetrachloroethene	0.1551	0.1559	20.00	17.55	ug/L	-12	30	0.0500	
Dibromochloromethane	0.2193	0.2091	20.00	19.07	ug/L	-5	30	0.0500	
1,2-Dibromoethane	0.2117	0.1998	20.00	18.87	ug/L	-6	30	0.0500	
Chlorobenzene	0.5482	0.5393	20.00	19.68	ug/L	-2	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1843	0.1771	20.00	19.22	ug/L	-4	30	0.0500	
Ethylbenzene	0.9264	0.9521	20.00	20.55	ug/L	3	20	0.0500	
m,p-Xylenes	0.3213	0.3360	40.00	41.84	ug/L	5	30	0.0500	
o-Xylene	0.3218	0.3300	20.00	20.51	ug/L	3	30	0.0500	
Styrene	0.5822	0.5950	20.00	20.44	ug/L	2	30	0.0500	
Bromoform	0.1450	0.1313	20.00	18.11	ug/L	-9	30	0.1000	
Isopropylbenzene	1.7784	1.8416	20.00	20.71	ug/L	4	30	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.8631	0.8384	20.00	19.43	ug/L	-3	30	0.3000	
1,2,3-Trichloropropane	0.1962	0.1931	20.00	19.68	ug/L	-2	30	0.0500	
Propylbenzene	2.3081	2.5212	20.00	21.85	ug/L	9	30	0.0500	
Bromobenzene	0.4470	0.4361	20.00	19.51	ug/L	-2	30	0.0500	
1,3,5-Trimethylbenzene	1.4355	1.4839	20.00	20.67	ug/L	3	30	0.0500	
2-Chlorotoluene	1.6443	1.6888	20.00	20.54	ug/L	3	30	0.0500	
4-Chlorotoluene	1.5655	1.5808	20.00	20.20	ug/L	1	30	0.0500	
tert-Butylbenzene	1.1200	1.1560	20.00	18.33	ug/L	-8	30	0.0500	
1,2,4-Trimethylbenzene	1.4917	1.4672	20.00	19.67	ug/L	-2	30	0.0500	
sec-Butylbenzene	1.8394	1.9010	20.00	17.93	ug/L	-10	30	0.0500	
para-Isopropyl Toluene	1.3712	1.3637	20.00	17.67	ug/L	-12	30	0.0500	
1,3-Dichlorobenzene	0.8196	0.7961	20.00	19.43	ug/L	-3	30	0.0500	
1,4-Dichlorobenzene	0.8520	0.8514	20.00	19.99	ug/L	0	30	0.0500	
n-Butylbenzene	1.4409	1.4060	20.00	17.31	ug/L	-13	30	0.0500	
1,2-Dichlorobenzene	0.7873	0.7606	20.00	19.32	ug/L	-3	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1592	0.1377	20.00	17.30	ug/L	-14	30	0.0500	
1,2,4-Trichlorobenzene	0.3931	0.3279	20.00	16.68	ug/L	-17	30	0.0500	
Hexachlorobutadiene	0.1229	0.1109	20.00	14.88	ug/L	**-26**	30	0.0500	!c-
Naphthalene	1.0879	1.0266	20.00	18.87	ug/L	-6	30	0.0500	
1,2,3-Trichlorobenzene	0.3826	0.3159	20.00	16.51	ug/L	-17	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0602	0.0591	200.0	196.2	ug/L	-2	30	0.0050	
Isopropyl Ether (DIPE)	2.5027	2.8867	20.00	23.07	ug/L	15	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.6278	1.7944	20.00	22.05	ug/L	10	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.7096	0.6982	20.00	19.68	ug/L	-2	30	0.0500	
Cyclohexanone	0.1257	0.1302	200.0	207.1	ug/L	4	30	0.0050	
Ethanol	0.0105	0.0112	2000	2120	ug/L	6	30	5.0E-4	
Isopropanol	0.0534	0.0535	200.0	200.3	ug/L	0	30	0.0050	
Tetrahydrofuran	0.2425	0.2570	200.0	212.0	ug/L	6	30	0.0050	
Dibromofluoromethane	0.7768	0.8124	50.00	52.29	ug/L	5	30	0.0500	
1,2-Dichloroethane-d4	0.5078	0.5598	50.00	55.12	ug/L	10	30	0.0500	
Trifluorotoluene	0.1908	0.1953	20.00	17.61	ug/L	-12	30	0.0500	
Toluene-d8	1.1251	1.1500	50.00	51.11	ug/L	2	30	0.0500	
Bromofluorobenzene	1.3034	1.2763	50.00	48.96	ug/L	-2	30	0.0500	

ISTD (ICAL hb115)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1400499	1132066	-19.17	10.48	10.48	0.00
1,4-Difluorobenzene	2944215	2504523	-14.93	11.61	11.61	0.00
Chlorobenzene-d5	2503542	2133099	-14.80	15.61	15.62	0.01
1,4-Dichlorobenzene-d4	1111278	951818	-14.35	18.34	18.34	0.00

LW 3-9-06

!=warning -=low bias c=CCV m=manual integration

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 09-MAR-2006
Sequence: 476098405 (hc9)
Instrument ID: MSVOA08

ICAL Filename: hb115
Date Analyzed: 01-FEB-2006
Time Analyzed: 19:01

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	1400499	10.48	2944215	11.61	2503542	15.61	1111278	18.34
LOWER LIMIT	700250	9.98	1472108	11.11	1251771	15.11	555639	17.84
UPPER LIMIT	2800998	10.98	5888430	12.11	5007084	16.11	2222556	18.84

TYPE	SAMPLE	#								
CCV	20 PPB	003	1132066	10.48	2504523	11.61	2133099	15.62	951818	18.34
BS	QC330712	004	1249293	10.48	2710235	11.61	2313622	15.62	981145	18.33
BSD	QC330713	005	1259856	10.48	2681438	11.61	2193727	15.61	946062	18.33
BLANK	QC330714	007	1208843	10.48	2643467	11.61	2249366	15.62	891159	18.34
SAMPLE	185381-001	008	1214466	10.48	2678586	11.61	2258110	15.61	907094	18.34
SAMPLE	185381-002	009	1166412	10.48	2522818	11.61	2136539	15.62	832814	18.33
SAMPLE	185381-003	010	1174825	10.48	2561051	11.61	2176438	15.61	859948	18.34
SAMPLE	185381-011	011	1160308	10.48	2552601	11.61	2131893	15.61	855963	18.33
SAMPLE	185381-012	012	1146451	10.48	2496943	11.61	2070870	15.62	835536	18.33
SAMPLE	185381-013	013	1146787	10.48	2500322	11.61	2142586	15.61	840404	18.33
SAMPLE	185381-014	014	1139213	10.48	2510467	11.61	2128013	15.62	833484	18.34
SAMPLE	185381-019	015	1098289	10.48	2460201	11.61	2061149	15.61	803679	18.34
SAMPLE	185381-020	016	1058921	10.48	2323949	11.61	1983222	15.61	776326	18.34
SAMPLE	185381-021	017	1104305	10.48	2460019	11.61	2098037	15.61	813076	18.34
SAMPLE	185361-001	018	1071226	10.48	2370622	11.61	1982231	15.61	784361	18.34
SAMPLE	185361-002	019	1093729	10.48	2445960	11.61	2075575	15.61	813327	18.34
SAMPLE	185362-009	020	1080246	10.48	2413503	11.61	2047590	15.62	796623	18.33
SAMPLE	185395-018	021	1044486	10.48	2352378	11.61	1971508	15.61	778053	18.34

ICAL

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 476046588 Instrument: MSVOA08 HP GCMS VOA 08 Begun: 01-FEB-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	hb101	X	IB			01-FEB-2006 08:28	1.0					1	
002	hb102	X	LOW			01-FEB-2006 09:10	1.0					1	
003	hb103	X	LOW			01-FEB-2006 09:47	1.0					1	
004	hb104	TUN	BFB			01-FEB-2006 10:30	1.0					2	
005	hb105	TUN	BFB			01-FEB-2006 11:01	1.0					2	
006	hb106	TUN	BFB			01-FEB-2006 11:21	1.0					2	
007	hb107	TUN	BFB			01-FEB-2006 14:11	1.0					2	
008	hb108	X	IB			01-FEB-2006 14:43	1.0					1	
009	hb109	X	CALIB IB			01-FEB-2006 15:20	1.0					1	
010	hb110	ICAL	1.0/0.5 PPB			01-FEB-2006 15:57	1.0					3 4 5 1	
011	hb111	ICAL	2 PPB			01-FEB-2006 16:34	1.0					3 4 5 1	
012	hb112	ICAL	5 PPB			01-FEB-2006 17:10	1.0					3 4 5 1	
013	hb113	ICAL	10 PPB			01-FEB-2006 17:47	1.0					3 4 5 1	
014	hb114	ICAL	20 PPB			01-FEB-2006 18:24	1.0					3 4 5 1	162
015	hb115	ICAL	50 PPB			01-FEB-2006 19:01	1.0					3 4 5 1	
016	hb116	ICAL	75 PPB			01-FEB-2006 19:39	1.0					3 4 5 1	
017	hb117	ICAL	100 PPB			01-FEB-2006 20:16	1.0					3 4 5 1	
018	hb118	ICV				01-FEB-2006 20:53	1.0	1	5000			6 1	
019	hb119	ICV				01-FEB-2006 21:30	1.0	1	5000			7 8 1	
020	hb120	X	IB			01-FEB-2006 22:07	1.0					1	
021	hb121	X	IB			01-FEB-2006 22:44	1.0					1	

ICAL-OK

ICV-Freon 12 ↓, Cyclohexanone ↓ (USE Chloromethane ↓)

Stds used: 1=S2284 2=S2327 3=S2349 4=S2552 5=S2028 6=S2606 7=S2436 8=S2616

Analyst: LW Date: 2-2-06

AL 02/07/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

1-3, 11-14, 19-21

Sequence: 476098405 Instrument: MSVOA08 HP GCMS VOA 08 Begun: 09-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	hc901	X	IB			09-MAR-2006 08:05	1.0						1	
002	hc902	TUN	BFB			09-MAR-2006 08:34	1.0						2	
003	hc903	CCV	20 PPB			09-MAR-2006 09:03	1.0			5000			3 4 5 1	
004	hc904	BS	QC330712	111125	Water	09-MAR-2006 09:47	1.0	2		5000			6 7 8 1	
005	hc905	BSD	QC330713	111125	Water	09-MAR-2006 10:24	1.0	2		5000			6 7 8 1	
006	hc906	X	IB			09-MAR-2006 11:08	1.0						1	
007	hc907	BLANK	QC330714	111125	Water	09-MAR-2006 11:45	1.0		1	5000			1	
008	hc908	SAMPLE	185381-001	111125	Water	09-MAR-2006 12:22	1.0			5000	C	L2	1	
009	hc909	SAMPLE	185381-002	111125	Water	09-MAR-2006 12:59	1.0			5000			1	
010	hc910	SAMPLE	185381-003	111125	Water	09-MAR-2006 13:36	1.0			5000			1	
011	hc911	SAMPLE	185381-011	111125	Water	09-MAR-2006 14:13	1.0			5000			1	
012	hc912	SAMPLE	185381-012	111125	Water	09-MAR-2006 14:50	1.0			5000			1	
013	hc913	SAMPLE	185381-013	111125	Water	09-MAR-2006 15:27	1.0			5000			1	
014	hc914	SAMPLE	185381-014	111125	Water	09-MAR-2006 16:05	1.0			5000			1	
015	hc915	SAMPLE	185381-019	111125	Water	09-MAR-2006 16:42	1.0			5000	B		1	163
016	hc916	SAMPLE	185381-020	111125	Water	09-MAR-2006 17:19	1.0			5000	C		1	
017	hc917	SAMPLE	185381-021	111125	Water	09-MAR-2006 17:56	1.0			5000	A		1	
018	hc918	SAMPLE	185361-001	111125	Water	09-MAR-2006 18:33	1.0			5000	C		1	
019	hc919	SAMPLE	185361-002	111125	Water	09-MAR-2006 19:10	3.333			5000			1	
020	hc920	SAMPLE	185362-009	111125	Water	09-MAR-2006 19:47	4.0			5000			1	
021	hc921	SAMPLE	185395-018	111125	Water	09-MAR-2006 20:24	1.0			5000	A		1	
022	hc922	X	IB			09-MAR-2006 21:01	1.0						1	
023	hc923	X	IB			09-MAR-2006 21:37	1.0						1	
024	hc924	X	IB			09-MAR-2006 22:14	1.0						1	

Stds used: 1=S2707 2=S2327 3=S2661 4=S2783 5=S2410 6=S2436 7=S2616 8=S2807

Analyst: LW Date: 3-10-06 Andw 3/10/06

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185381 8260 Water
Curtis & Tompkins Laboratories

| Lab ID | Inst ID | Analyzed | IDF | CVBCADMCMDVDMDTTCDBTDBMDBDTHPDCEXXTSTPDDBBLCRLCCTDTCACECCCTCZCCDICZCCXCBLBYYOTBCBCZRMMEEELSBEAKELAC1LAC1EPCBPMPAOECBZLLTYMAFAM4EMEA1NE1E1M1L1AMK1E11 2MZMOXEM1EF2 2 3 2 | |
|---|---|---

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 3-9

PREPPED BY.

111125

111123

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	185362-9		C	<2			8	4X	
2	185361-1		↓	↓			↓	1x VCO	
3	-2		↓	<2			↓	3.3X	
4	185381-1		C	↓			↓	1X	
5	-2		↓	↓			↓	1X	
6	-3		↓	↓			↓	1X	
7	-11		↓	↓			↓	1X	
8	-12		↓	↓			↓	1X	
9	-13		↓	↓			↓	1X	
10	-14		↓	↓			↓	1X	
11	-19		B	↓			↓	1X	
12	-20		C	↓			↓	TB	
13	-21		A	↓			↓		
14	185392-1		↓	↓			↓		Put off - Now on 5
15	-2		↓	↓			↓		
16	-3		↓	↓			↓		
17									
18									
19									
20			A	<2			7	14.2X	
21	185395-1		↓	↓			↓	1X	
22	-2		↓	↓			↓	TB	
23	-3		↓	↓			↓	25X	
24	-4		↓	↓			↓	33X	
25	-5		↓	↓			↓	2.5X	
26	-6		↓	↓			↓	1X	
27	-7		↓	↓			↓	↓	
28	-8		↓	↓			↓	TB	
29	-9		↓	↓			↓	1X	
30	-10		↓	↓			↓	↓	
31	-11		↓	↓			↓	↓	
32	-12		↓	↓			↓	↓	
33	-13		↓	↓			↓	↓	
34	-14		↓	↓			↓	↓	Put off
35	-15		↓	↓			↓	↓	
36	-16		↓	↓			↓	↓	
37	-17		↓	↓			↓	↓	
38	-18		↓	<2			8	↓	
39	~~-19~~								
40	185362-16		C	<2			7	1x VCC14	
41									
42									

PREPFORM.XLS

7/21/98

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water
As of 03/31/06

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
1,1-Dichloroethene	ug/L	0.27	0.22	0.062	0.17	0.10	0.085	0.089
Benzene	ug/L	0.11	0.041	0.060	0.061	0.12	0.044	0.027
Trichloroethene	ug/L	0.21	0.076	0.18	0.17	0.11	0.072	0.087
Toluene	ug/L	0.083	0.083	0.12	0.092	0.062	0.063	0.053
Chlorobenzene	ug/L	0.10	0.090	0.11	0.16	0.16	0.079	0.050
Freon 12	ug/L	0.18	0.099	0.22	0.062	0.15	0.24	0.18
Chloromethane	ug/L	0.12	0.16	0.12	0.18	0.13	0.16	0.089
Vinyl Chloride	ug/L	0.19	0.23	0.10	0.066	0.10	0.17	0.16
Bromomethane	ug/L	0.29	0.30	0.31	0.13	0.31	0.23	0.20
Chloroethane	ug/L	0.33	0.33	0.15	0.16	0.13	0.16	0.12
Trichlorofluoromethane	ug/L	0.16	0.057	0.17	0.10	0.080	0.089	0.10
Acetone	ug/L	0.39	0.87	0.21	0.85	0.16	0.26	0.49
Freon 113	ug/L	0.062	0.12	0.13	0.25	0.071	0.20	0.091
Methylene Chloride	ug/L	0.15	0.21	0.11	0.12	0.16	0.099	0.22
MTBE	ug/L	0.069	0.074	0.065	0.045	0.040	0.051	0.052
Carbon Disulfide	ug/L	0.039	0.031	0.086	0.076	0.11	0.058	0.037
trans-1,2-Dichloroethene	ug/L	0.37	0.13	0.18	0.051	0.064	0.11	0.093
Vinyl Acetate	ug/L	0.076	0.36	0.084	0.99	0.40	0.080	0.10
1,1-Dichloroethane	ug/L	0.088	0.061	0.048	0.090	0.11	0.063	0.063
2-Butanone	ug/L	0.16	0.17	0.20	0.50	0.099	0.17	0.26
cis-1,2-Dichloroethene	ug/L	0.26	0.18	0.083	0.12	0.042	0.096	0.11
2,2-Dichloropropane	ug/L	0.093	0.17	0.077	0.12	0.066	0.084	0.083
Chloroform	ug/L	0.082	0.055	0.086	0.060	0.11	0.030	0.044
Bromochloromethane	ug/L	0.091	0.090	0.10	0.18	0.11	0.20	0.15
1,1,1-Trichloroethane	ug/L	0.084	0.066	0.14	0.11	0.061	0.045	0.041
1,1-Dichloropropene	ug/L	0.12	0.11	0.081	0.16	0.16	0.052	0.055
Carbon Tetrachloride	ug/L	0.089	0.11	0.098	0.17	0.15	0.095	0.056
1,2-Dichloroethane	ug/L	0.090	0.088	0.099	0.096	0.12	0.058	0.056
1,2-Dichloropropane	ug/L	0.093	0.060	0.079	0.071	0.14	0.072	0.12
Bromodichloromethane	ug/L	0.086	0.039	0.067	0.074	0.10	0.081	0.069
Dibromomethane	ug/L	0.16	0.061	0.092	0.16	0.11	0.065	0.13
4-Methyl-2-Pentanone	ug/L	0.044	0.076	0.057	0.20	0.13	0.092	0.25
cis-1,3-Dichloropropene	ug/L	0.068	0.065	0.056	0.20	0.16	0.042	0.044
trans-1,3-Dichloropropene	ug/L	0.074	0.074	0.044	0.073	0.14	0.071	0.060
1,1,2-Trichloroethane	ug/L	0.12	0.12	0.14	0.19	0.15	0.094	0.058
2-Hexanone	ug/L	0.043	0.31	0.047	0.34	0.11	0.13	0.14
1,3-Dichloropropane	ug/L	0.064	0.067	0.061	0.063	0.10	0.045	0.068
Tetrachloroethene	ug/L	0.13	0.14	0.12	0.22	0.14	0.090	0.093
Dibromochloromethane	ug/L	0.099	0.054	0.10	0.085	0.056	0.077	0.063
1,2-Dibromoethane	ug/L	0.16	0.061	0.10	0.073	0.11	0.053	0.070
2-Chloroethylvinylether	ug/L	0.093	0.18	0.24	0.17	0.14	0.20	0.23
1,1,1,2-Tetrachloroethane	ug/L	0.11	0.087	0.10	0.11	0.14	0.046	0.088
Ethylbenzene	ug/L	0.059	0.076	0.075	0.17	0.041	0.060	0.11
m,p-Xylenes	ug/L	0.24	0.22	0.14	0.27	0.17	0.13	0.20
o-Xylene	ug/L	0.10	0.058	0.092	0.11	0.16	0.11	0.13

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water
As of 03/31/06

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
Styrene	ug/L	0.12	0.092	0.098	0.085	0.16	0.075	0.061
Bromoform	ug/L	0.12	0.088	0.11	0.18	0.094	0.079	0.15
Isopropylbenzene	ug/L	0.12	0.059	0.090	0.18	0.059	0.053	0.10
1,1,2,2-Tetrachloroethane	ug/L	0.13	0.096	0.086	0.047	0.13	0.070	0.055
1,2,3-Trichloropropane	ug/L	0.31	0.28	0.074	0.11	0.17	0.20	0.16
Propylbenzene	ug/L	0.075	0.10	0.063	0.21	0.023	0.055	0.11
Bromobenzene	ug/L	0.12	0.12	0.10	0.19	0.12	0.073	0.085
1,3,5-Trimethylbenzene	ug/L	0.060	0.095	0.047	0.14	0.057	0.077	0.13
2-Chlorotoluene	ug/L	0.12	0.11	0.068	0.15	0.025	0.047	0.12
4-Chlorotoluene	ug/L	0.079	0.069	0.043	0.14	0.037	0.032	0.069
tert-Butylbenzene	ug/L	0.11	0.15	0.075	0.19	0.038	0.042	0.079
1,2,4-Trimethylbenzene	ug/L	0.091	0.088	0.066	0.12	0.069	0.077	0.10
sec-Butylbenzene	ug/L	0.11	0.12	0.062	0.17	0.088	0.041	0.076
para-Isopropyl Toluene	ug/L	0.058	0.12	0.12	0.14	0.056	0.055	0.045
1,3-Dichlorobenzene	ug/L	0.080	0.16	0.097	0.18	0.060	0.071	0.10
1,4-Dichlorobenzene	ug/L	0.068	0.14	0.095	0.18	0.038	0.092	0.17
n-Butylbenzene	ug/L	0.12	0.15	0.11	0.18	0.21	0.048	0.12
1,2-Dichlorobenzene	ug/L	0.072	0.14	0.080	0.14	0.16	0.068	0.061
1,2-Dibromo-3-Chloropropane	ug/L	0.39	0.25	0.21	0.22	0.13	0.26	0.098
1,2,4-Trichlorobenzene	ug/L	0.12	0.17	0.14	0.16	0.10	0.16	0.17
Hexachlorobutadiene	ug/L	0.19	0.19	0.29	0.21	0.11	0.24	0.25
Naphthalene	ug/L	0.12	0.13	0.060	0.10	0.091	0.20	0.16
1,2,3-Trichlorobenzene	ug/L	0.063	0.17	0.10	0.20	0.095	0.18	0.29
tert-Butyl Alcohol (TBA)	ug/L	1.3	1.6	0.83	2.5	1.3	0.94	1.3
Isopropyl Ether (DIPE)	ug/L	0.068	0.070	0.063	0.027	0.030	0.053	0.027
Ethyl tert-Butyl Ether (ETBE)	ug/L	0.089	0.045	0.024	0.20	0.033	0.075	0.034
Methyl tert-Amyl Ether (TAME)	ug/L	0.094	0.13	0.055	0.054	0.048	0.032	0.057
Isopropanol	ug/L	4.6	2.7	1.6	6.6	1.5	1.4	1.1
Ethanol	ug/L	55	22	23	50	11	7.9	36
Hexane	ug/L				0.33		0.15	
Cyclohexanone	ug/L	3.8	2.4	0.21	1.6	1.6	2.5	
Tetrahydrofuran	ug/L	0.64	1.2	1.1	0.79	1.4	1.7	3.5
Tetramethyl THF	ug/L	0.067	0.061	0.062	0.20	0.10	0.055	0.078
Gasoline C6-C10	ug/L		15		4.8	15	8.5	
Gasoline C7-C12	ug/L		18		2.4	13	7.7	
Dibromofluoromethane	ug/L	3.1	2.9	1.8	2.4	1.5		3.2
1,2-Dichloroethane-d4	ug/L	3.0	3.9		2.4	1.2		3.0
Toluene-d8	ug/L	1.7	3.8		1.1	1.0		1.1
Bromofluorobenzene	ug/L	2.5	2.6		1.2	1.2		1.5
Trifluorotoluene	ug/L	0.12	0.43	0.065	0.21	0.13		0.14

PESTICIDES

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	LF5GW104	Batch#:	111199
Lab ID:	185381-011	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Prepared:	03/10/06
Diln Fac:	1.000	Analyzed:	03/13/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.09
4,4'-DDE	ND	0.09
Endrin	ND	0.09
Endosulfan II	ND	0.09
Endosulfan sulfate	ND	0.09
4,4'-DDD	ND	0.09
4,4'-DDT	ND #	0.09
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.09
Toxaphene	ND	0.9

Surrogate	%REC	Limits
TCMX	80	65-135
Decachlorobiphenyl	87	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	DUP0307063B	Batch#:	111199
Lab ID:	185381-012	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Prepared:	03/10/06
Diln Fac:	1.000	Analyzed:	03/13/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.09
4,4'-DDE	ND	0.09
Endrin	ND	0.09
Endosulfan II	ND	0.09
Endosulfan sulfate	ND	0.09
4,4'-DDD	ND	0.09
4,4'-DDT	ND #	0.09
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.09
Toxaphene	ND	0.9

Surrogate	%REC	Limits
TCMX	71	65-135
Decachlorobiphenyl	72	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	1349MW102	Batch#:	111199
Lab ID:	185381-013	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Prepared:	03/10/06
Diln Fac:	1.000	Analyzed:	03/13/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND #	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	71	65-135
Decachlorobiphenyl	78	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	DUP0307063C	Batch#:	111199
Lab ID:	185381-014	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Prepared:	03/10/06
Diln Fac:	1.000	Analyzed:	03/13/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND #	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	70	65-135
Decachlorobiphenyl	73	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331034	Batch#:	111199
Matrix:	Water	Prepared:	03/10/06
Units:	ug/L	Analyzed:	03/13/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND #	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	73	65-135
Decachlorobiphenyl	102	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Matrix:	Water	Batch#:	111199
Units:	ug/L	Prepared:	03/10/06
Diln Fac:	1.000	Analyzed:	03/13/06

Type: BS Lab ID: QC331035

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	0.2000	0.1792	90	65-135
Heptachlor	0.2000	0.1809	90	65-135
Aldrin	0.2000	0.1759	88	65-135
Dieldrin	0.4000	0.3785	95	65-135
Endrin	0.4000	0.3636	91	65-135
4,4'-DDT	0.4000	0.3642 #	91	65-135

Surrogate	%REC	Limits
TCMX	75	65-135
Decachlorobiphenyl	103	65-135

Type: BSD Lab ID: QC331036

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	0.2000	0.1840	92	65-135	3	35
Heptachlor	0.2000	0.1865	93	65-135	3	35
Aldrin	0.2000	0.1806	90	65-135	3	35
Dieldrin	0.4000	0.3896	97	65-135	3	35
Endrin	0.4000	0.3731	93	65-135	3	35
4,4'-DDT	0.4000	0.3731 #	93	65-135	2	35

Surrogate	%REC	Limits
TCMX	82	65-135
Decachlorobiphenyl	98	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185381 PEST Water: EPA 8081A

Inst : GC21
Calnum : 246090289001
Units : pg

Name : gc21pest062
Date : 03-MAR-2006 16:49
X Axis : R

Reviewer: MCH
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	062_007	246090289007	pest_1	03-MAR-2006 16:49	S2827
L2	062_008	246090289008	pest_2	03-MAR-2006 17:06	S2039
L3	062_009	246090289009	pest_3	03-MAR-2006 17:23	S2824
L4	062_010	246090289010	pest_4	03-MAR-2006 17:41	S2372
L5	062_011	246090289011	pest_5	03-MAR-2006 17:58	S2663
L6	062_012	246090289012	pest_6	03-MAR-2006 18:15	S2828
L7	062_013	246090289013	pest_7	03-MAR-2006 18:33	S2823

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
alpha-BHC	A	15186	14539	13770	13435	13877	13587	12182	AVRG		7.25E-5		13797	7	0.995	20	
gamma-BHC	A	13643	13740	12750	12639	13116	12334	11010	AVRG		7.84E-5		12747	7	0.995	20	
beta-BHC	A	6074.0	5916.8	5452.9	5253.8	5350.0	4961.6	4654.6	AVRG		1.86E-4		5380.5	9	0.995	20	
delta-BHC	A	13337	13643	12559	12818	13276	12231	10744	AVRG		7.90E-5		12658	8	0.995	20	
Heptachlor	A	10866	11505	10481	10418	10788	10390	9314.6	AVRG		9.49E-5		10537	6	0.995	20	
Aldrin	A	12810	12326	11449	11178	11611	10900	9480.2	AVRG		8.78E-5		11393	9	0.995	20	
Heptachlor epoxide	A	12074	11243	10575	9936.1	10310	9809.4	8521.4	AVRG		9.66E-5		10353	11	0.995	20	
gamma-Chlordane	A	12339	11468	10697	10265	10505	10142	8952.6	AVRG		9.41E-5		10624	10	0.995	20	
alpha-Chlordane	A	11835	11323	10033	10187	10465	9843.6	8590.7	AVRG		9.69E-5		10325	10	0.995	20	
4,4'-DDE	A	10909	10533	9864.5	9844.3	10154	9164.7	7141.4	AVRG		1.04E-4		9658.6	13	0.995	20	
Endosulfan I	A	11137	10504	9917.9	9314.5	9441.6	8769.4	7936.7	AVRG		1.04E-4		9574.3	11	0.995	20	
Dieldrin	A	11073	10842	10062	9943.8	10271	8910.0	6764.0	AVRG		1.03E-4		9695.0	15	0.995	20	
Endrin	A	8177.0	8056.5	7341.1	7247.0	7555.2	6952.4	5679.6	AVRG		1.37E-4		7287.0	11	0.995	20	
4,4'-DDD	A	7826.3	7569.7	7076.6	7277.2	7582.4	7258.7	5892.4	AVRG		1.39E-4		7211.9	9	0.995	20	
Endosulfan II	A	10051	9217.4	9179.9	8407.1	8568.4	7805.6	6275.6	AVRG		1.18E-4		8500.7	14	0.995	20	
4,4'-DDT	A	6746.5	7434.6	6874.2	7358.5	7640.4	7280.7	6117.6	AVRG		1.42E-4		7064.6	7	0.995	20	
Methoxychlor	A	2967.5	3121.2	2829.9	2955.0	2972.0	2393.2	1649.9	AVRG		3.71E-4		2698.4	19	0.995	20	
Endosulfan sulfate	A	7977.8	7549.4	6979.8	6805.1	7016.6	6480.9	5376.7	AVRG		1.45E-4		6883.8	12	0.995	20	
Endrin ketone	A	9050.3	8688.4	8066.8	8050.9	8307.8	7525.3	5795.7	AVRG		1.26E-4		7926.5	13	0.995	20	
TCMX	A	9987.5	9445.7	9184.7	8499.5	8783.5	8716.9	7804.2	AVRG		1.12E-4		8917.4	8	0.995	20	
Decachlorobiphenyl	A	6698.3	6152.3	5656.9	5471.6	5472.9	5372.8	4736.6	AVRG		1.77E-4		5651.6	11	0.995	20	
alpha-BHC	B	12960	12479	11566	14001	11683	12352	9907.9	AVRG		8.24E-5		12135	11	0.995	20	
gamma-BHC	B	11425	11317	10400	12744	10523	10745	8653.7	AVRG		9.23E-5		10830	11	0.995	20	
beta-BHC	B	5298.5	5149.6	4866.2	5714.7	4656.5	4774.8	3997.1	AVRG		2.03E-4		4922.5	11	0.995	20	
delta-BHC	B	10979	10445	10059	12433	10100	9924.9	7848.8	AVRG		9.75E-5		10256	13	0.995	20	
Heptachlor	B	8923.0	9901.0	9368.3	10671	8989.3	9374.4	7943.6	AVRG		1.07E-4		9310.0	9	0.995	20	

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Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aldrin	B	10566	10190	9440.4	11353	9413.9	9545.6	7800.9	AVRG		1.02E-4		9758.5	11	0.995	20	
Heptachlor epoxide	B	9735.0	9166.8	8693.1	9743.8	8194.6	8363.1	6836.3	AVRG		1.15E-4		8676.1	12	0.995	20	
gamma-Chlordane	B	10110	9445.8	8913.8	10212	8563.1	8689.4	7255.0	AVRG		1.11E-4		9027.0	11	0.995	20	
alpha-Chlordane	B	9705.0	9115.8	8403.5	10025	8247.7	8117.4	6950.3	AVRG		1.16E-4		8652.2	12	0.995	20	
4,4'-DDE	B	9225.5	8789.5	8210.6	9760.2	8133.7	7623.4	5655.7	AVRG		1.22E-4		8199.8	16	0.995	20	
Endosulfan I	B	9121.0	8979.2	8079.0	9304.9	7972.6	7794.9	6304.0	AVRG		1.22E-4		8222.2	13	0.995	20	
Dieldrin	B	9476.0	8938.0	8308.9	9777.3	8202.1	7472.2	5471.0	AVRG		1.21E-4		8235.1	18	0.995	20	
Endrin	B	6817.5	6531.9	6317.0	6753.9	5672.9	5407.8	4269.0	AVRG		1.68E-4		5967.1	15	0.995	20	
4,4'-DDD	B	7643.8	7095.7	6969.9	7942.8	6780.7	6366.8	4844.0	AVRG		1.47E-4		6806.2	15	0.995	20	
Endosulfan II	B	8202.0	7617.0	7029.2	7927.5	6804.8	6286.1	4757.7	AVRG		1.44E-4		6946.3	17	0.995	20	
4,4'-DDT	B	6763.3	7110.2	6353.1	7660.4	6434.1	6168.2	4824.1	AVRG		1.54E-4		6473.3	14	0.995	20	
Methoxychlor	B	2590.3	2574.9	2427.1	2529.4	2186.1	1792.2		AVRG		4.26E-4		2350.0	13	0.995	20	
Endosulfan sulfate	B	7470.0	6948.4	6335.6	6982.9	5972.4	5538.0	4346.8	AVRG		1.61E-4		6227.7	17	0.995	20	
Endrin ketone	B	9058.0	8221.9	7840.7	8581.4	7436.5	6589.5	4878.0	AVRG		1.33E-4		7515.1	19	0.995	20	
TCMX	B	8856.0	8219.7	7837.4	9077.1	7510.3	8110.1	6413.1	AVRG		1.25E-4		8003.4	11	0.995	20	
Decachlorobiphenyl	B	7380.0	6391.6	6027.9	6418.6	5533.5	5391.2	4346.5	AVRG		1.69E-4		5927.0	16	0.995	20	
Average EPA 8081A	A												(n=22)	11		20	
Average EPA 8081A	B												(n=22)	14		20	

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AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185381 PEST Water
EPA 8081A

Inst : GC21 Name : gc21pest062
Calnum : 246090289001 Cal Date: 03-MAR-2006

ICV 246090289015 (062_015 03-MAR-2006) stds: S2502

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
alpha-BHC	A	25.00	24.41	pg	-2	15	
gamma-BHC	A	25.00	24.17	pg	-3	15	
beta-BHC	A	25.00	23.72	pg	-5	15	
delta-BHC	A	25.00	24.90	pg	0	15	
Heptachlor	A	25.00	24.55	pg	-2	15	
Aldrin	A	25.00	23.91	pg	-4	15	
Heptachlor epoxide	A	25.00	23.60	pg	-6	15	
gamma-Chlordane	A	25.00	23.06	pg	-8	15	
alpha-Chlordane	A	25.00	23.17	pg	-7	15	
4,4'-DDE	A	25.00	25.01	pg	0	15	
Endosulfan I	A	25.00	23.79	pg	-5	15	
Dieldrin	A	25.00	25.17	pg	1	15	
Endrin	A	25.00	25.34	pg	1	15	
4,4'-DDD	A	25.00	24.28	pg	-3	15	
Endosulfan II	A	25.00	26.12	pg	4	15	
4,4'-DDT	A	25.00	25.76	pg	3	15	
Methoxychlor	A	25.00	32.12	pg	**28**	15	v+ ***
Endosulfan sulfate	A	25.00	25.52	pg	2	15	
Endrin ketone	A	25.00	26.09	pg	4	15	
alpha-BHC	B	25.00	26.88	pg	8	15	
gamma-BHC	B	25.00	26.54	pg	6	15	
beta-BHC	B	25.00	26.52	pg	6	15	
delta-BHC	B	25.00	25.95	pg	4	15	
Heptachlor	B	25.00	28.59	pg	14	15	
Aldrin	B	25.00	26.24	pg	5	15	
Heptachlor epoxide	B	25.00	26.31	pg	5	15	
gamma-Chlordane	B	25.00	25.47	pg	2	15	
alpha-Chlordane	B	25.00	25.66	pg	3	15	
4,4'-DDE	B	25.00	27.82	pg	11	15	
Endosulfan I	B	25.00	25.99	pg	4	15	
Dieldrin	B	25.00	27.52	pg	10	15	
Endrin	B	25.00	27.43	pg	10	15	
4,4'-DDD	B	25.00	27.80	pg	11	15	
Endosulfan II	B	25.00	28.03	pg	12	15	
4,4'-DDT	B	25.00	27.30	pg	9	15	
Methoxychlor	B	25.00	32.58	pg	**30**	15	v+ ***
Endosulfan sulfate	B	25.00	27.76	pg	11	15	
Endrin ketone	B	25.00	28.99	pg	**16**	15	v+ ***
Average EPA 8081A	A	n=20			5	15	
Average EPA 8081A	B	n=20			10	15	

+=high bias v=ICV

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 185381 PEST Water
EPA 8081A

Inst : GC21 Run Name: pem IDF : 1.0
Seqnum : 246104350002 File : 072_002 Time : 13-MAR-2006 11:27

Standards: S2664

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	617463	5	15	
4,4'-DDE	A	6673			
4,4'-DDD	A	26193			
Endrin	A	346840	6	15	
Endrin aldehyde	A	6009			
Endrin ketone	A	14838			
4,4'-DDT	B	571258	6	15	
4,4'-DDE	B	3656			
4,4'-DDD	B	33134			
Endrin	B	310432	14	15	
Endrin aldehyde	B	9986			
Endrin ketone	B	39938			

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 185381 PEST Water
EPA 8081A

Inst : GC21 Run Name: pem IDF : 1.0
Seqnum : 246104350018 File : 072_018 Time : 13-MAR-2006 18:34

Standards: S2664

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	612778	8	15	
4,4'-DDE	A	4595			
4,4'-DDD	A	48301			
Endrin	A	349991	11	15	
Endrin aldehyde	A	9362			
Endrin ketone	A	34475			
4,4'-DDT	B	512679	9	15	
4,4'-DDE	B	3487			
4,4'-DDD	B	50305			
Endrin	B	292419	**17**	15	
Endrin aldehyde	B	10100			
Endrin ketone	B	48912			

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185381 PEST Water
EPA 8081A

Inst : GC21 Run Name: pest_3 IDF : 1.0
Seqnum : 246104350004 File : 072_004 Time : 13-MAR-2006 12:02
Cal : 246090289001 Caldate : 03-MAR-2006
Standards: S2824

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	13797	12620	10.00	9.147	pg	-9	15	
gamma-BHC	A	12747	11691	10.00	9.171	pg	-8	15	
beta-BHC	A	5380.5	5027.0	10.00	9.343	pg	-7	15	
delta-BHC	A	12658	11661	10.00	9.212	pg	-8	15	
Heptachlor	A	10537	9648.4	10.00	9.156	pg	-8	15	
Aldrin	A	11393	10505	10.00	9.220	pg	-8	15	
Heptachlor epoxide	A	10353	9689.5	10.00	9.359	pg	-6	15	
gamma-Chlordane	A	10624	10005	10.00	9.418	pg	-6	15	
alpha-Chlordane	A	10325	9259.0	10.00	8.967	pg	-10	15	
4,4'-DDE	A	9658.6	9032.2	20.00	18.70	pg	-6	15	
Endosulfan I	A	9574.3	9211.0	10.00	9.621	pg	-4	15	
Dieldrin	A	9695.0	9121.6	20.00	18.82	pg	-6	15	
Endrin	A	7287.0	6788.4	20.00	18.63	pg	-7	15	
4,4'-DDD	A	7211.9	7090.9	20.00	19.66	pg	-2	15	
Endosulfan II	A	8500.7	7787.4	20.00	18.32	pg	-8	15	
4,4'-DDT	A	7064.6	5872.1	20.00	16.62	pg	**-17**	15	c- ***
Methoxychlor	A	2698.4	2604.5	100.0	96.52	pg	-3	15	
Endosulfan sulfate	A	6883.8	6653.7	20.00	19.33	pg	-3	15	
Endrin ketone	A	7926.5	7676.3	20.00	19.37	pg	-3	15	
TCMX	A	8917.4	8478.2	20.00	19.01	pg	-5	15	
Decachlorobiphenyl	A	5651.6	5546.3	20.00	19.63	pg	-2	15	
alpha-BHC	B	12135	11212	10.00	9.239	pg	-8	15	
gamma-BHC	B	10830	9915.2	10.00	9.155	pg	-8	15	
beta-BHC	B	4922.5	4561.1	10.00	9.266	pg	-7	15	
delta-BHC	B	10256	9229.4	10.00	8.999	pg	-10	15	
Heptachlor	B	9310.0	8818.6	10.00	9.472	pg	-5	15	
Aldrin	B	9758.5	9104.4	10.00	9.330	pg	-7	15	
Heptachlor epoxide	B	8676.1	8165.9	10.00	9.412	pg	-6	15	
gamma-Chlordane	B	9027.0	8445.7	10.00	9.356	pg	-6	15	
alpha-Chlordane	B	8652.2	7969.0	10.00	9.210	pg	-8	15	
4,4'-DDE	B	8199.8	7641.5	20.00	18.64	pg	-7	15	
Endosulfan I	B	8222.2	7716.3	10.00	9.385	pg	-6	15	
Dieldrin	B	8235.1	7811.3	20.00	18.97	pg	-5	15	
Endrin	B	5967.1	5464.0	20.00	18.31	pg	-8	15	
4,4'-DDD	B	6806.2	6424.1	20.00	18.88	pg	-6	15	
Endosulfan II	B	6946.3	6645.6	20.00	19.13	pg	-4	15	
4,4'-DDT	B	6473.3	5587.8	20.00	17.26	pg	-14	15	
Methoxychlor	B	2350.0	2118.8	100.0	90.16	pg	-10	15	
Endosulfan sulfate	B	6227.7	5842.2	20.00	18.76	pg	-6	15	
Endrin ketone	B	7515.1	7417.0	20.00	19.74	pg	-1	15	
TCMX	B	8003.4	7573.6	20.00	18.93	pg	-5	15	
Decachlorobiphenyl	B	5927.0	5512.0	20.00	18.60	pg	-7	15	
Average EPA 8081A	A	(n=22)					6	15	
Average EPA 8081A	B	(n=22)					7	15	

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185381 PEST Water
EPA 8081A

Inst : GC21 Run Name: pest_4 IDF : 1.0
Seqnum : 246104350019 File : 072_019 Time : 13-MAR-2006 18:52
Cal : 246090289001 Caldate : 03-MAR-2006
Standards: S2372

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	13797	12994	20.00	18.84	pg	-6	15	
gamma-BHC	A	12747	12197	20.00	19.14	pg	-4	15	
beta-BHC	A	5380.5	5018.9	20.00	18.66	pg	-7	15	
delta-BHC	A	12658	12377	20.00	19.56	pg	-2	15	
Heptachlor	A	10537	10412	20.00	19.76	pg	-1	15	
Aldrin	A	11393	10819	20.00	18.99	pg	-5	15	
Heptachlor epoxide	A	10353	9616.5	20.00	18.58	pg	-7	15	
gamma-Chlordane	A	10624	9861.4	20.00	18.56	pg	-7	15	
alpha-Chlordane	A	10325	9406.0	20.00	18.22	pg	-9	15	
4,4'-DDE	A	9658.6	9453.3	40.00	39.15	pg	-2	15	
Endosulfan I	A	9574.3	9267.7	20.00	19.36	pg	-3	15	
Dieldrin	A	9695.0	9638.4	40.00	39.77	pg	-1	15	
Endrin	A	7287.0	7008.4	40.00	38.47	pg	-4	15	
4,4'-DDD	A	7211.9	7287.4	40.00	40.42	pg	1	15	
Endosulfan II	A	8500.7	8194.0	40.00	38.56	pg	-4	15	
4,4'-DDT	A	7064.6	6705.7	40.00	37.97	pg	-5	15	
Methoxychlor	A	2698.4	2825.4	200.0	209.4	pg	5	15	
Endosulfan sulfate	A	6883.8	6768.4	40.00	39.33	pg	-2	15	
Endrin ketone	A	7926.5	8065.9	40.00	40.70	pg	2	15	
TCMX	A	8917.4	8159.1	40.00	36.60	pg	-9	15	
Decachlorobiphenyl	A	5651.6	5391.1	40.00	38.16	pg	-5	15	
alpha-BHC	B	12135	13009	20.00	21.44	pg	7	15	
gamma-BHC	B	10830	11863	20.00	21.91	pg	10	15	
beta-BHC	B	4922.5	5261.6	20.00	21.38	pg	7	15	
delta-BHC	B	10256	11630	20.00	22.68	pg	13	15	
Heptachlor	B	9310.0	10497	20.00	22.55	pg	13	15	
Aldrin	B	9758.5	10536	20.00	21.59	pg	8	15	
Heptachlor epoxide	B	8676.1	9229.3	20.00	21.28	pg	6	15	
gamma-Chlordane	B	9027.0	9564.6	20.00	21.19	pg	6	15	
alpha-Chlordane	B	8652.2	9440.2	20.00	21.82	pg	9	15	
4,4'-DDE	B	8199.8	9121.8	40.00	44.50	pg	11	15	
Endosulfan I	B	8222.2	8617.9	20.00	20.96	pg	5	15	
Dieldrin	B	8235.1	9088.6	40.00	44.15	pg	10	15	
Endrin	B	5967.1	6493.9	40.00	43.53	pg	9	15	
4,4'-DDD	B	6806.2	7590.0	40.00	44.61	pg	12	15	
Endosulfan II	B	6946.3	7550.7	40.00	43.48	pg	9	15	
4,4'-DDT	B	6473.3	6810.6	40.00	42.08	pg	5	15	
Methoxychlor	B	2350.0	2507.6	200.0	213.4	pg	7	15	
Endosulfan sulfate	B	6227.7	6524.3	40.00	41.90	pg	5	15	
Endrin ketone	B	7515.1	8140.8	40.00	43.33	pg	8	15	
TCMX	B	8003.4	8406.5	40.00	42.01	pg	5	15	
Decachlorobiphenyl	B	5927.0	5888.2	40.00	39.74	pg	-1	15	
Average EPA 8081A	A	(n=22)					4	15	
Average EPA 8081A	B	(n=22)					8	15	

SEQUENCE SUMMARY FOR 185381 PEST Water
Curtis & Tompkins Laboratories

Sequence: 246090289 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 03-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	062_001	X	primer			03-MAR-2006 15:05	1.0							
002	062_002	X	primer			03-MAR-2006 15:22	1.0							
003	062_003	X	primer			03-MAR-2006 15:40	1.0							
004	062_004	X	hex			03-MAR-2006 15:57	1.0							
005	062_005	PEM	pem			03-MAR-2006 16:14	1.0			1			1	
006	062_006	X	hex			03-MAR-2006 16:31	1.0							
007	062_007	ICAL	pest_1			03-MAR-2006 16:49	1.0						2	
008	062_008	ICAL	pest_2			03-MAR-2006 17:06	1.0						3	
009	062_009	ICAL	pest_3			03-MAR-2006 17:23	1.0						4	
010	062_010	ICAL	pest_4			03-MAR-2006 17:41	1.0						5	
011	062_011	ICAL	pest_5			03-MAR-2006 17:58	1.0						6	
012	062_012	ICAL	pest_6			03-MAR-2006 18:15	1.0						7	
013	062_013	ICAL	pest_7			03-MAR-2006 18:33	1.0						8	
014	062_014	X	hex			03-MAR-2006 18:50	1.0							
015	062_015	ICV	icv			03-MAR-2006 19:07	1.0	3		1			9	182
016	062_016	X	icv			03-MAR-2006 19:24	1.0						9	
017	062_017	X	hex			03-MAR-2006 19:42	1.0							

Stds used: 1=S2664 2=S2827 3=S2039 4=S2824 5=S2372 6=S2663 7=S2828 8=S2823 9=S2502

SEQUENCE SUMMARY FOR 185381 PEST Water
Curtis & Tompkins Laboratories

Sequence: 246104350 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 13-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	072_001	X	hex			13-MAR-2006 11:10	1.0						
002	072_002	PEM	pem			13-MAR-2006 11:27	1.0	1.0			1	1	
003	072_003	X	pest_3			13-MAR-2006 11:44	1.0					2	
004	072_004	CCV	pest_3			13-MAR-2006 12:02	1.0	1.0	1		1	2	
005	072_005	X	pest_3			13-MAR-2006 12:40	1.0					2	
006	072_006	X	hex			13-MAR-2006 13:22	1.0						
007	072_007	BLANK	QC331034	111199	Water	13-MAR-2006 13:40	1.0	0.01	1		1		
008	072_008	BS	QC331035	111199	Water	13-MAR-2006 13:57	1.0	0.01	1		1		
009	072_009	BSD	QC331036	111199	Water	13-MAR-2006 14:15	1.0	0.01	1		1		
010	072_010	SAMPLE	185381-011	111199	Water	13-MAR-2006 16:15	1.0	0.009434	1		1		
011	072_011	SAMPLE	185381-012	111199	Water	13-MAR-2006 16:33	1.0	0.009434	1		1		
012	072_012	SAMPLE	185381-013	111199	Water	13-MAR-2006 16:50	1.0	0.009524	1		1		
013	072_013	SAMPLE	185381-014	111199	Water	13-MAR-2006 17:07	1.0	0.01	1	2	1		
014	072_014	SAMPLE	185408-009	111199	Water	13-MAR-2006 17:25	1.0	0.009804	1		1		
015	072_015	SAMPLE	185443-001	111199	Water	13-MAR-2006 17:42	1.0	0.01	1		1		183
016	072_016	SAMPLE	185364-001	111199	Water	13-MAR-2006 18:00	10.0	0.01	1		1		
017	072_017	X	hex			13-MAR-2006 18:17	1.0						
018	072_018	PEM	pem			13-MAR-2006 18:34	1.0	1.0			1	1	
019	072_019	CCV	pest_4			13-MAR-2006 18:52	1.0	1.0			1	3	
020	072_020	X	pest_4			13-MAR-2006 19:09	1.0					3	
021	072_021	X	pem			13-MAR-2006 19:26	1.0					1	
022	072_022	X	hex			13-MAR-2006 19:44	1.0						
023	072_023	SAMPLE	185434-001	111199	Water	13-MAR-2006 20:01	1.0	0.009524			1		
024	072_024	SAMPLE	185434-003	111199	Water	13-MAR-2006 20:18	1.0	0.01		1	1		
025	072_025	SAMPLE	185434-004	111199	Water	13-MAR-2006 20:36	1.0	0.009524			1		
026	072_026	SAMPLE	185373-001	111199	Water	13-MAR-2006 20:53	5.0	0.009434			1		
027	072_027	BLANK	QC329812	110898	Soil	13-MAR-2006 21:11	1.0						
028	072_028	LCS	QC329816	110898	Soil	13-MAR-2006 21:28	1.0						
029	072_029	SAMPLE	184976-020	110898	Soil	13-MAR-2006 21:45	20.0						
030	072_030	X	hex			13-MAR-2006 22:03	1.0						
031	072_031	PEM	pem			13-MAR-2006 22:20	1.0	1.0			1	1	

Stds used: 1=S2664 2=S2824 3=S2372 4=S2663

SEQUENCE SUMMARY FOR 185381 PEST Water
Curtis & Tompkins Laboratories

Sequence: 246104350 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 13-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	072_032	CCV	pest_5			13-MAR-2006 22:37	1.0	1.0	2		1	4	
033	072_033	X	pest_5			13-MAR-2006 22:55	1.0					4	
034	072_034	X	pem			13-MAR-2006 23:12	1.0					1	
035	072_035	X	hex			13-MAR-2006 23:29	1.0						

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Stds used: 1=S2664 2=S2824 3=S2372 4=S2663

REPORTING SUMMARY FOR 185381 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185381-011	alpha-BHC	GC21	A	03/13/06 16:15
185381-011	beta-BHC	GC21	A	03/13/06 16:15
185381-011	gamma-BHC	GC21	A	03/13/06 16:15
185381-011	delta-BHC	GC21	A	03/13/06 16:15
185381-011	Heptachlor	GC21	A	03/13/06 16:15
185381-011	Aldrin	GC21	A	03/13/06 16:15
185381-011	Heptachlor epoxide	GC21	A	03/13/06 16:15
185381-011	Endosulfan I	GC21	A	03/13/06 16:15
185381-011	Dieldrin	GC21	A	03/13/06 16:15
185381-011	4,4'-DDE	GC21	A	03/13/06 16:15
185381-011	Endrin	GC21	A	03/13/06 16:15
185381-011	Endosulfan II	GC21	A	03/13/06 16:15
185381-011	Endosulfan sulfate	GC21	A	03/13/06 16:15
185381-011	4,4'-DDD	GC21	A	03/13/06 16:15
185381-011	4,4'-DDT	GC21	A	03/13/06 16:15
185381-011	alpha-Chlordane	GC21	A	03/13/06 16:15
185381-011	gamma-Chlordane	GC21	A	03/13/06 16:15
185381-011	Methoxychlor	GC21	A	03/13/06 16:15
185381-011	Endrin ketone	GC21	A	03/13/06 16:15
185381-011	Toxaphene	GC21	A	03/13/06 16:15
185381-011	TCMX	GC21	A	03/13/06 16:15
185381-011	Decachlorobiphenyl	GC21	A	03/13/06 16:15
185381-012	alpha-BHC	GC21	A	03/13/06 16:33
185381-012	beta-BHC	GC21	A	03/13/06 16:33
185381-012	gamma-BHC	GC21	A	03/13/06 16:33
185381-012	delta-BHC	GC21	A	03/13/06 16:33
185381-012	Heptachlor	GC21	A	03/13/06 16:33
185381-012	Aldrin	GC21	A	03/13/06 16:33
185381-012	Heptachlor epoxide	GC21	A	03/13/06 16:33
185381-012	Endosulfan I	GC21	A	03/13/06 16:33
185381-012	Dieldrin	GC21	A	03/13/06 16:33
185381-012	4,4'-DDE	GC21	A	03/13/06 16:33
185381-012	Endrin	GC21	A	03/13/06 16:33
185381-012	Endosulfan II	GC21	A	03/13/06 16:33
185381-012	Endosulfan sulfate	GC21	A	03/13/06 16:33
185381-012	4,4'-DDD	GC21	A	03/13/06 16:33
185381-012	4,4'-DDT	GC21	A	03/13/06 16:33
185381-012	alpha-Chlordane	GC21	A	03/13/06 16:33
185381-012	gamma-Chlordane	GC21	A	03/13/06 16:33
185381-012	Methoxychlor	GC21	A	03/13/06 16:33
185381-012	Endrin ketone	GC21	A	03/13/06 16:33
185381-012	Toxaphene	GC21	A	03/13/06 16:33
185381-012	TCMX	GC21	A	03/13/06 16:33
185381-012	Decachlorobiphenyl	GC21	A	03/13/06 16:33
185381-013	alpha-BHC	GC21	A	03/13/06 16:50
185381-013	beta-BHC	GC21	A	03/13/06 16:50
185381-013	gamma-BHC	GC21	A	03/13/06 16:50
185381-013	delta-BHC	GC21	A	03/13/06 16:50
185381-013	Heptachlor	GC21	A	03/13/06 16:50
185381-013	Aldrin	GC21	A	03/13/06 16:50
185381-013	Heptachlor epoxide	GC21	A	03/13/06 16:50
185381-013	Endosulfan I	GC21	A	03/13/06 16:50

REPORTING SUMMARY FOR 185381 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185381-013	Dieldrin	GC21	A	03/13/06 16:50
185381-013	4,4'-DDE	GC21	A	03/13/06 16:50
185381-013	Endrin	GC21	A	03/13/06 16:50
185381-013	Endosulfan II	GC21	A	03/13/06 16:50
185381-013	Endosulfan sulfate	GC21	A	03/13/06 16:50
185381-013	4,4'-DDD	GC21	A	03/13/06 16:50
185381-013	4,4'-DDT	GC21	A	03/13/06 16:50
185381-013	alpha-Chlordane	GC21	A	03/13/06 16:50
185381-013	gamma-Chlordane	GC21	A	03/13/06 16:50
185381-013	Methoxychlor	GC21	A	03/13/06 16:50
185381-013	Endrin ketone	GC21	A	03/13/06 16:50
185381-013	Toxaphene	GC21	A	03/13/06 16:50
185381-013	TCMX	GC21	A	03/13/06 16:50
185381-013	Decachlorobiphenyl	GC21	A	03/13/06 16:50
185381-014	alpha-BHC	GC21	A	03/13/06 17:07
185381-014	beta-BHC	GC21	A	03/13/06 17:07
185381-014	gamma-BHC	GC21	A	03/13/06 17:07
185381-014	delta-BHC	GC21	A	03/13/06 17:07
185381-014	Heptachlor	GC21	A	03/13/06 17:07
185381-014	Aldrin	GC21	A	03/13/06 17:07
185381-014	Heptachlor epoxide	GC21	A	03/13/06 17:07
185381-014	Endosulfan I	GC21	A	03/13/06 17:07
185381-014	Dieldrin	GC21	A	03/13/06 17:07
185381-014	4,4'-DDE	GC21	A	03/13/06 17:07
185381-014	Endrin	GC21	A	03/13/06 17:07
185381-014	Endosulfan II	GC21	A	03/13/06 17:07
185381-014	Endosulfan sulfate	GC21	A	03/13/06 17:07
185381-014	4,4'-DDD	GC21	A	03/13/06 17:07
185381-014	4,4'-DDT	GC21	A	03/13/06 17:07
185381-014	alpha-Chlordane	GC21	A	03/13/06 17:07
185381-014	gamma-Chlordane	GC21	A	03/13/06 17:07
185381-014	Methoxychlor	GC21	A	03/13/06 17:07
185381-014	Endrin ketone	GC21	A	03/13/06 17:07
185381-014	Toxaphene	GC21	A	03/13/06 17:07
185381-014	TCMX	GC21	B	03/13/06 17:07
185381-014	Decachlorobiphenyl	GC21	B	03/13/06 17:07
QC331034	alpha-BHC	GC21	A	03/13/06 13:40
QC331034	beta-BHC	GC21	A	03/13/06 13:40
QC331034	gamma-BHC	GC21	A	03/13/06 13:40
QC331034	delta-BHC	GC21	A	03/13/06 13:40
QC331034	Heptachlor	GC21	A	03/13/06 13:40
QC331034	Aldrin	GC21	A	03/13/06 13:40
QC331034	Heptachlor epoxide	GC21	A	03/13/06 13:40
QC331034	Endosulfan I	GC21	A	03/13/06 13:40
QC331034	Dieldrin	GC21	A	03/13/06 13:40
QC331034	4,4'-DDE	GC21	A	03/13/06 13:40
QC331034	Endrin	GC21	A	03/13/06 13:40
QC331034	Endosulfan II	GC21	A	03/13/06 13:40
QC331034	Endosulfan sulfate	GC21	A	03/13/06 13:40
QC331034	4,4'-DDD	GC21	A	03/13/06 13:40
QC331034	4,4'-DDT	GC21	A	03/13/06 13:40
QC331034	alpha-Chlordane	GC21	A	03/13/06 13:40

REPORTING SUMMARY FOR 185381 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC331034	gamma-Chlordane	GC21	A	03/13/06 13:40
QC331034	Methoxychlor	GC21	A	03/13/06 13:40
QC331034	Endrin ketone	GC21	A	03/13/06 13:40
QC331034	Toxaphene	GC21	A	03/13/06 13:40
QC331034	TCMX	GC21	A	03/13/06 13:40
QC331034	Decachlorobiphenyl	GC21	A	03/13/06 13:40
QC331035	gamma-BHC	GC21	A	03/13/06 13:57
QC331035	Heptachlor	GC21	A	03/13/06 13:57
QC331035	Aldrin	GC21	A	03/13/06 13:57
QC331035	Dieldrin	GC21	A	03/13/06 13:57
QC331035	Endrin	GC21	A	03/13/06 13:57
QC331035	4,4'-DDT	GC21	A	03/13/06 13:57
QC331035	TCMX	GC21	A	03/13/06 13:57
QC331035	Decachlorobiphenyl	GC21	A	03/13/06 13:57
QC331036	gamma-BHC	GC21	A	03/13/06 14:15
QC331036	Heptachlor	GC21	A	03/13/06 14:15
QC331036	Aldrin	GC21	A	03/13/06 14:15
QC331036	Dieldrin	GC21	A	03/13/06 14:15
QC331036	Endrin	GC21	A	03/13/06 14:15
QC331036	4,4'-DDT	GC21	A	03/13/06 14:15
QC331036	TCMX	GC21	A	03/13/06 14:15
QC331036	Decachlorobiphenyl	GC21	A	03/13/06 14:15

Curtis & Tompkins Laboratories Sample Preparation Summary 13-MAR-2006 17:36

Batch Number : 111199
Date Extracted: 10-MAR-2006
Extracted by : Sandra Felipe Luna
Prep Method : 3520C

Analysis : 8081
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2719B
Spike #2 ID : S2744F
Spike #3 ID :
SOP Version : 8081w_rv14

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185364-001		CH2M Hill Constructors Inc.	Water	1000	mL	10	0.010000	1	6	.02	0		8081		
185373-001		Acme Fill Corp.	Water	1060	mL	10	0.009434	1	7	.02	0		8081		
185381-011		Treadwell & Rollo	Water	1060	mL	10	0.009434	1	6	.02	0		8081		
185381-012		Treadwell & Rollo	Water	1060	mL	10	0.009434	1	6	.02	0		8081		
185381-013		Treadwell & Rollo	Water	1050	mL	10	0.009524	1	6	.02	0		8081		
185381-014		Treadwell & Rollo	Water	1000	mL	10	0.010000	1	6	.02	0		8081		
185408-009		Treadwell & Rollo	Water	1020	mL	10	0.009804	1	6	.02	0		8081		
185434-001		LFR Levine Fricke	Water	1050	mL	10	0.009524	1	6	.02	0		8081		
185434-003		LFR Levine Fricke	Water	1000	mL	10	0.010000	1	6	.02	0		8081		
185434-004		LFR Levine Fricke	Water	1050	mL	10	0.009524	1	6	.02	0		8081		
185443-001		CH2M Hill Constructors Inc.	Water	1000	mL	10	0.010000	1	6	.02	0		8081		
QC331034	BLANK		Water	1000	mL	10	0.010000	1		.02	0		8081		
QC331035	BS		Water	1000	mL	10	0.010000	1		.02	.025		8081		
QC331036	BSD		Water	1000	mL	10	0.010000	1		.02	.025		8081		

Prep Chemist: [signature]

Reviewed By: [signature] Date: 3/13/06

Relinquished By: JDM for DLM

Received By: [signature] Date: 03/14/06

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Curtis & Tompkins, Ltd

8081 WATER PREP LOG

BK2210

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LIMS Batch No: 111199
LIMS Analysis: 8081
Extracted by: CFL
Date Extracted: 3/10/06

Extraction Method:
- ☐ EPA 3510c sep. funnel
- ☑ EPA 3520c cont. L/L
- ☐ _____

Cleanup Method (if needed):
- ☐ EPA 3640a GPC
- ☐ EPA 3620b Florisil
- ☐ _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185364-001 E	1000	6	10.0		
185373-001 M	1060	7			
185381-011		6			
-012 J					
-013 K	1050				
-014	1000				removed from batch JOA 3/13/06
185400-008 AH	1010				
-009 O	1020				
185434-001 E	1050				
-003	1000				
-004	1050				
MB BC331034	1000	N/A			
BS 5					
BSD 6					
185443-001D		6			*

DLM 3/11/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.02 mL of surrogate solution was added to all samples	S27198	CFL 3/10/06
0.025 mL of matrix spiking solution was added to all spikes	S2744F	
☑ Samples continuously extracted with about 450 mL of CH_2Cl_2	EM46014	
Extraction Start Time:	1132 / *1152	
Extraction End Time:	0605 / *0605	DLM 3/11/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	
Extracts filtered through baked, CH_2Cl_2-rinsed ~~powdered~~ granular Na_2SO_4	EM45118532	
Exchanged 2x with Hexane	CP890	
Concentrated: ☑ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Florisil	NA	

3/10/06
Extraction Chemist Date

Contined from Page ____
Continued on Page ____

Jessica Chee 3/13/06
Reviewed by Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8081A Water
As of 03/31/06

Analyte	Units	GC21 A	GC21 B	GC16 A	GC16 B	GC23 A	GC23 B
gamma-BHC	ug/L	0.0065	0.0039	0.0032	0.0025	0.0029	0.0039
Heptachlor	ug/L	0.0083	0.0056	0.0057	0.0061	0.0029	0.0055
Aldrin	ug/L	0.0094	0.0070	0.0066	0.0066	0.0062	0.0077
Dieldrin	ug/L	0.011	0.0051	0.0074	0.0070	0.0041	0.0097
Endrin	ug/L	0.012	0.011	0.0095	0.0083	0.0054	0.011
4,4'-DDT	ug/L	0.012	0.0071	0.011	0.0099	0.0088	0.0087
alpha-BHC	ug/L	0.0063	0.0040	0.0029	0.0027	0.0032	0.0049
beta-BHC	ug/L	0.0061	0.011	0.0033	0.0052	0.0029	0.0055
delta-BHC	ug/L	0.0065	0.0023	0.0040	0.0026	0.0018	0.0041
Heptachlor epoxide	ug/L	0.0066	0.0097	0.0033	0.0032	0.0028	0.0044
gamma-Chlordane	ug/L	0.0064	0.011	0.0041	0.0037	0.0020	0.0042
alpha-Chlordane	ug/L	0.010	0.0052	0.0045	0.0036	0.0023	0.0052
Endosulfan I	ug/L	0.0062	0.0033	0.0043	0.0032	0.0026	0.0048
4,4'-DDE	ug/L	0.011	0.0057	0.010	0.0082	0.0045	0.0097
Endosulfan II	ug/L	0.013	0.0077	0.0088	0.0073	0.0066	0.0097
Endosulfan sulfate	ug/L	0.0096	0.0054	0.015	0.0087	0.0054	0.0093
4,4'-DDD	ug/L	0.011	0.0096	0.0088	0.0090	0.0033	0.010
Endrin aldehyde	ug/L	0.010	0.0092	0.0084	0.0086	0.0052	0.0088
Chlordane (Technical)	ug/L	0.26	0.21	0.19	0.19	0.17	0.21
Methoxychlor	ug/L	0.050	0.018	0.057	0.080	0.043	0.051
Endrin ketone	ug/L	0.0083	0.023	0.027	0.0095	0.0051	0.015
Toxaphene	ug/L	0.47	0.32	0.16	0.58	0.55	0.49

PCBs

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Matrix:	Water	Sampled:	03/07/06
Units:	ug/L	Received:	03/08/06
Diln Fac:	1.000	Prepared:	03/09/06
Batch#:	111152		

Field ID: LF4GW103
Type: SAMPLE
Lab ID: 185381-008

Analyzed: 03/11/06
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.48
Aroclor-1221	ND	0.95
Aroclor-1232	ND	0.48
Aroclor-1242	ND	0.48
Aroclor-1248	ND	0.48
Aroclor-1254	ND	0.48
Aroclor-1260	ND	0.48

Surrogate	%REC	Limits
TCMX	94	65-135
Decachlorobiphenyl	86	65-135

Field ID: DUP0307063A
Type: SAMPLE
Lab ID: 185381-009

Analyzed: 03/11/06
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.47
Aroclor-1221	ND	0.94
Aroclor-1232	ND	0.47
Aroclor-1242	ND	0.47
Aroclor-1248	ND	0.47
Aroclor-1254	ND	0.47
Aroclor-1260	ND	0.47

Surrogate	%REC	Limits
TCMX	102	65-135
Decachlorobiphenyl	97	65-135

Field ID: LF4GW104
Type: SAMPLE
Lab ID: 185381-010

Analyzed: 03/11/06
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.48
Aroclor-1221	ND	0.95
Aroclor-1232	ND	0.48
Aroclor-1242	ND	0.48
Aroclor-1248	ND	0.48
Aroclor-1254	ND	0.48
Aroclor-1260	ND	0.48

Surrogate	%REC	Limits
TCMX	93	65-135
Decachlorobiphenyl	99	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Matrix:	Water	Sampled:	03/07/06
Units:	ug/L	Received:	03/08/06
Diln Fac:	1.000	Prepared:	03/09/06
Batch#:	111152		

Field ID: 1349MW102
Type: SAMPLE
Lab ID: 185381-013

Analyzed: 03/11/06
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.48
Aroclor-1221	ND	0.96
Aroclor-1232	ND	0.48
Aroclor-1242	ND	0.48
Aroclor-1248	ND	0.48
Aroclor-1254	ND	0.48
Aroclor-1260	ND	0.48

Surrogate	%REC	Limits
TCMX	94	65-135
Decachlorobiphenyl	84	65-135

Field ID: DUP0307063C
Type: SAMPLE
Lab ID: 185381-014

Analyzed: 03/11/06
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.48
Aroclor-1221	ND	0.96
Aroclor-1232	ND	0.48
Aroclor-1242	ND	0.48
Aroclor-1248	ND	0.48
Aroclor-1254	ND	0.48
Aroclor-1260	ND	0.48

Surrogate	%REC	Limits
TCMX	87	65-135
Decachlorobiphenyl	88	65-135

Type: BLANK
Lab ID: QC330820

Analyzed: 03/10/06
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	113	65-135
Decachlorobiphenyl	97	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Matrix:	Water	Batch#:	111152
Units:	ug/L	Prepared:	03/09/06
Diln Fac:	1.000	Analyzed:	03/10/06

Type: BS Cleanup Method: EPA 3665A
Lab ID: QC330821

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	10.00	9.203	92	60-140

Surrogate	%REC	Limits
TCMX	126	65-135
Decachlorobiphenyl	114	65-135

Type: BSD Cleanup Method: EPA 3665A
Lab ID: QC330822

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1221	10.00	8.381	84	60-140	9	20

Surrogate	%REC	Limits
TCMX	117	65-135
Decachlorobiphenyl	118	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185381 PCBS Water: EPA 8082

Inst : GC06
Calnum : 206080100001
Units : pg

Name : ar1660
Date : 24-FEB-2006 20:11
X Axis : R

Reviewer: CW
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	055_007	206080100007	pcb10_2	24-FEB-2006 20:11	S2097
L2	055_008	206080100008	pcb25_5	24-FEB-2006 20:38	S2098
L3	055_009	206080100009	pcb100_20	24-FEB-2006 21:06	S2099
L4	055_010	206080100010	pcb250_50	24-FEB-2006 21:33	S2770
L5	055_011	206080100011	pcb500_100	24-FEB-2006 22:01	S2771
L6	055_012	206080100012	pcb750_150	24-FEB-2006 22:28	S2102
L7	055_013	206080100013	pcb1000_200	24-FEB-2006 22:56	S2103

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aroclor-1016 Peak # 1	A	273.40	237.44	212.23	203.01	189.02	176.97	188.12	AVRG		0.00473		211.46	16	.99	20	
Aroclor-1016 Peak # 2	A	548.90	512.20	439.33	404.10	364.83	335.04	348.42	AVRG		0.00237		421.83	20	.99	20	
Aroclor-1016 Peak # 3	A	293.00	287.44	255.41	253.75	243.79	225.75	247.18	AVRG		0.00388		258.05	9	.99	20	
Aroclor-1016 Peak # 4	A	150.20	147.56	133.14	139.26	137.92	132.46	151.28	AVRG		0.00706		141.69	6	.99	20	
Aroclor-1016 Peak # 5	A	263.90	253.24	236.68	225.76	219.28	200.39	212.79	AVRG		0.00434		230.29	10	.99	20	
Aroclor-1260 Peak # 1	A	554.20	530.28	456.78	426.96	399.03	358.84	400.27	AVRG		0.00224		446.62	16	.99	20	
Aroclor-1260 Peak # 2	A	745.60	710.44	634.84	601.22	568.16	512.07	577.91	AVRG		0.00161		621.46	13	.99	20	
Aroclor-1260 Peak # 3	A	601.40	610.92	534.66	541.80	538.61	501.04	595.07	AVRG		0.00178		560.50	7	.99	20	
Aroclor-1260 Peak # 4	A	705.50	636.68	591.31	586.90	588.23	539.34	666.53	AVRG		0.00162		616.36	9	.99	20	
Aroclor-1260 Peak # 5	A	318.20	414.32	303.63	303.42	310.49	289.76	369.61	AVRG		0.00303		329.92	14	.99	20	
TCMX	A	7282.5	7139.6	6840.5	7446.6	7554.1	7369.8	7949.9	AVRG		1.36E-4		7369.0	5	.99	20	
Decachlorobiphenyl	A	9302.0	8720.0	7501.1	7270.5	7147.8	6228.7	7742.4	AVRG		1.30E-4		7701.8	13	.99	20	
Aroclor-1016 Peak # 1	B	151.30	151.40	133.12	132.23	125.78	118.63	125.68	AVRG		0.00746		134.02	10	.99	20	
Aroclor-1016 Peak # 2	B	204.90	195.28	171.90	168.30	159.20	146.69	160.07	AVRG		0.00580		172.33	12	.99	20	
Aroclor-1016 Peak # 3	B	456.10	425.32	392.35	394.28	401.38	388.54	440.21	AVRG		0.00242		414.03	6	.99	20	
Aroclor-1016 Peak # 4	B	214.00	205.84	199.02	190.41	186.57	176.25	196.75	AVRG		0.00511		195.55	6	.99	20	
Aroclor-1016 Peak # 5	B	147.70	141.20	127.05	120.40	113.08	105.67	115.90	AVRG		0.00804		124.43	12	.99	20	
Aroclor-1260 Peak # 1	B	405.60	389.60	337.09	317.43	289.65	268.05	292.32	AVRG		0.00304		328.53	16	.99	20	
Aroclor-1260 Peak # 2	B	248.20	162.20	209.23	191.16	181.42	166.39	193.58	AVRG		0.00518		193.17	15	.99	20	
Aroclor-1260 Peak # 3	B	236.70	242.44	200.47	191.34	179.60	170.58	199.07	AVRG		0.00493		202.89	13	.99	20	
Aroclor-1260 Peak # 4	B	485.50	455.40	405.02	394.28	386.98	360.23	439.96	AVRG		0.00239		418.20	10	.99	20	
Aroclor-1260 Peak # 5	B	310.50	243.04	201.52	196.66	199.69	185.99	234.06	AVRG		0.00445		224.49	19	.99	20	
TCMX	B	4884.5	4711.4	4507.1	5053.8	5279.3	5199.5	5685.3	AVRG		1.98E-4		5045.8	8	.99	20	
Decachlorobiphenyl	B	6245.0	5690.6	4667.1	4431.4	4321.4	3789.4	4749.3	AVRG		2.07E-4		4842.0	17	.99	20	

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AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185381 PCBS Water
EPA 8082

Inst : GC06 Name : ar1660
Calnum : 206080100001 Cal Date: 24-FEB-2006

ICV 206080100016 (055_016 25-FEB-2006) stds: S2181

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Aroclor-1016	A	250.0	245.1	pg	-2	15	
Aroclor-1260	A	250.0	243.3	pg	-3	15	
Aroclor-1016	B	250.0	246.3	pg	-1	15	
Aroclor-1260	B	250.0	264.5	pg	6	15	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185381 PCBS Water: EPA 8082

Inst : GC06
Calnum : 206097063001
Units : pg

Name : ar2154
Date : 08-MAR-2006 18:34
X Axis : R

Reviewer: CW
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	067_011	206097063011	ar2154	08-MAR-2006 18:34	S2665

Analyte	Ch	L1	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aroclor-1221 Peak # 1	A	113.96	AVRG		0.00878		113.96	0	.99	20	
Aroclor-1221 Peak # 2	A	85.664	AVRG		0.01167		85.664	0	.99	20	
Aroclor-1221 Peak # 3	A	342.44	AVRG		0.00292		342.44	0	.99	20	
Aroclor-1221 Peak # 4	A	43.044	AVRG		0.02323		43.044	0	.99	20	
Aroclor-1221 Peak # 5	A	43.528	AVRG		0.02297		43.528	0	.99	20	
Aroclor-1254 Peak # 1	A	362.06	AVRG		0.00276		362.06	0	.99	20	
Aroclor-1254 Peak # 2	A	484.48	AVRG		0.00206		484.48	0	.99	20	
Aroclor-1254 Peak # 3	A	338.19	AVRG		0.00296		338.19	0	.99	20	
Aroclor-1254 Peak # 4	A	592.74	AVRG		0.00169		592.74	0	.99	20	
Aroclor-1254 Peak # 5	A	413.58	AVRG		0.00242		413.58	0	.99	20	
Aroclor-1221 Peak # 1	B	80.024	AVRG		0.01250		80.024	0	.99	20	
Aroclor-1221 Peak # 2	B	77.476	AVRG		0.01291		77.476	0	.99	20	
Aroclor-1221 Peak # 3	B	66.816	AVRG		0.01497		66.816	0	.99	20	
Aroclor-1221 Peak # 4	B	230.82	AVRG		0.00433		230.82	0	.99	20	
Aroclor-1221 Peak # 5	B	49.304	AVRG		0.02028		49.304	0	.99	20	
Aroclor-1254 Peak # 1	B	310.02	AVRG		0.00323		310.02	0	.99	20	
Aroclor-1254 Peak # 2	B	362.06	AVRG		0.00276		362.06	0	.99	20	
Aroclor-1254 Peak # 3	B	223.14	AVRG		0.00448		223.14	0	.99	20	
Aroclor-1254 Peak # 4	B	449.26	AVRG		0.00223		449.26	0	.99	20	
Aroclor-1254 Peak # 5	B	326.65	AVRG		0.00306		326.65	0	.99	20	

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AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION SUMMARY FOR 185381 PCBS Water
Curtis & Tompkins Laboratories

Analyte: Aroclor-1016

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	206100145002	10-MAR-2006 13:33	206080100001	24-FEB-2006			500.00	522.04	pg	4	15	
GC06	B	206100145002	10-MAR-2006 13:33	206080100001	24-FEB-2006			500.00	548.80	pg	10	15	
GC06	A	206100145019	11-MAR-2006 03:33	206080100001	24-FEB-2006			250.00	258.02	pg	3	15	
GC06	B	206100145019	11-MAR-2006 03:33	206080100001	24-FEB-2006			250.00	270.88	pg	8	15	
GC06	A	206100145039	11-MAR-2006 12:42	206080100001	24-FEB-2006			750.00	752.05	pg	0	15	
GC06	B	206100145039	11-MAR-2006 12:42	206080100001	24-FEB-2006			750.00	797.88	pg	6	15	

CONTINUING CALIBRATION SUMMARY FOR 185381 PCBS Water
Curtis & Tompkins Laboratories

Analyte: Aroclor-1221

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	206100145004	10-MAR-2006 20:41	206097063001	08-MAR-2006			250.00	258.76	pg	4	15	
GC06	B	206100145004	10-MAR-2006 20:41	206097063001	08-MAR-2006			250.00	260.30	pg	4	15	
GC06	A	206100145021	11-MAR-2006 04:28	206097063001	08-MAR-2006			250.00	258.53	pg	3	15	
GC06	B	206100145021	11-MAR-2006 04:28	206097063001	08-MAR-2006			250.00	262.42	pg	5	15	
GC06	A	206100145040	11-MAR-2006 13:10	206097063001	08-MAR-2006			250.00	244.07	pg	-2	15	
GC06	B	206100145040	11-MAR-2006 13:10	206097063001	08-MAR-2006			250.00	246.19	pg	-2	15	

CONTINUING CALIBRATION SUMMARY FOR 185381 PCBS Water
Curtis & Tompkins Laboratories

Analyte: Aroclor-1254

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	206100145004	10-MAR-2006 20:41	206097063001	08-MAR-2006			250.00	258.40	pg	3	15	
GC06	B	206100145004	10-MAR-2006 20:41	206097063001	08-MAR-2006			250.00	256.38	pg	3	15	
GC06	A	206100145021	11-MAR-2006 04:28	206097063001	08-MAR-2006			250.00	236.45	pg	-5	15	
GC06	B	206100145021	11-MAR-2006 04:28	206097063001	08-MAR-2006			250.00	238.03	pg	-5	15	
GC06	A	206100145040	11-MAR-2006 13:10	206097063001	08-MAR-2006			250.00	231.29	pg	-7	15	
GC06	B	206100145040	11-MAR-2006 13:10	206097063001	08-MAR-2006			250.00	227.33	pg	-9	15	

CONTINUING CALIBRATION SUMMARY FOR 185381 PCBS Water
Curtis & Tompkins Laboratories

Analyte: Aroclor-1260

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	206100145002	10-MAR-2006 13:33	206080100001	24-FEB-2006			500.00	507.84	pg	2	15	
GC06	B	206100145002	10-MAR-2006 13:33	206080100001	24-FEB-2006			500.00	543.08	pg	9	15	
GC06	A	206100145019	11-MAR-2006 03:33	206080100001	24-FEB-2006			250.00	241.13	pg	-4	15	
GC06	B	206100145019	11-MAR-2006 03:33	206080100001	24-FEB-2006			250.00	258.76	pg	4	15	
GC06	A	206100145039	11-MAR-2006 12:42	206080100001	24-FEB-2006			750.00	769.23	pg	3	15	
GC06	B	206100145039	11-MAR-2006 12:42	206080100001	24-FEB-2006			750.00	833.25	pg	11	15	

CONTINUING CALIBRATION SUMMARY FOR 185381 PCBS Water
Curtis & Tompkins Laboratories

Analyte: TCMX

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	206100145002	10-MAR-2006 13:33	206080100001	24-FEB-2006	7369.0	8546.2	100.00	115.97	pg	**16**	15	c+
GC06	B	206100145002	10-MAR-2006 13:33	206080100001	24-FEB-2006	5045.8	6396.8	100.00	126.77	pg	**27**	15	c+
GC06	A	206100145019	11-MAR-2006 03:33	206080100001	24-FEB-2006	7369.0	8318.8	50.000	56.445	pg	13	15	
GC06	B	206100145019	11-MAR-2006 03:33	206080100001	24-FEB-2006	5045.8	6054.6	50.000	59.996	pg	**20**	15	c+
GC06	A	206100145039	11-MAR-2006 12:42	206080100001	24-FEB-2006	7369.0	8439.8	150.00	171.80	pg	15	15	
GC06	B	206100145039	11-MAR-2006 12:42	206080100001	24-FEB-2006	5045.8	6411.1	150.00	190.59	pg	**27**	15	c+

Ch. B used

mcm 3/20/06

+=high bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 185381 PCBS Water
Curtis & Tompkins Laboratories

Analyte: Decachlorobiphenyl

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	206100145002	10-MAR-2006 13:33	206080100001	24-FEB-2006	7701.8	7758.2	100.00	100.73	pg	1	15	
GC06	B	206100145002	10-MAR-2006 13:33	206080100001	24-FEB-2006	4842.0	5497.9	100.00	113.54	pg	14	15	
GC06	A	206100145019	11-MAR-2006 03:33	206080100001	24-FEB-2006	7701.8	7718.1	50.000	50.106	pg	0	15	
GC06	B	206100145019	11-MAR-2006 03:33	206080100001	24-FEB-2006	4842.0	5437.6	50.000	56.150	pg	12	15	
GC06	A	206100145039	11-MAR-2006 12:42	206080100001	24-FEB-2006	7701.8	7489.8	150.00	145.87	pg	-3	15	
GC06	B	206100145039	11-MAR-2006 12:42	206080100001	24-FEB-2006	4842.0	5381.7	150.00	166.72	pg	11	15	

SEQUENCE SUMMARY FOR 185381 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206080100 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 24-FEB-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	055_001	X	hex			24-FEB-2006 15:00	1.0						
002	055_002	X	pcb500_100			24-FEB-2006 15:27	1.0					1	
003	055_003	CCV	pcb500_100			24-FEB-2006 15:55	1.0	1.0	2		1	1	
004	055_004	X	ccv			24-FEB-2006 17:17	1.0					1	
005	055_005	X	hex			24-FEB-2006 19:16	1.0						
006	055_006	X	hex			24-FEB-2006 19:43	1.0						
007	055_007	ICAL	pcb10_2			24-FEB-2006 20:11	1.0	1.0				2	
008	055_008	ICAL	pcb25_5			24-FEB-2006 20:38	1.0	1.0				3	
009	055_009	ICAL	pcb100_20			24-FEB-2006 21:06	1.0	1.0				4	
010	055_010	ICAL	pcb250_50			24-FEB-2006 21:33	1.0	1.0				5	
011	055_011	ICAL	pcb500_100			24-FEB-2006 22:01	1.0	1.0				6	
012	055_012	ICAL	pcb750_150			24-FEB-2006 22:28	1.0	1.0				7	
013	055_013	ICAL	pcb1000_200			24-FEB-2006 22:56	1.0	1.0				8	
014	055_014	X	hex			24-FEB-2006 23:23	1.0						
015	055_015	X	ultra_1660			24-FEB-2006 23:50	1.0					9	205
016	055_016	ICV	ultra_1660			25-FEB-2006 00:18	1.0	1.0			1	9	
017	055_017	X	hex			25-FEB-2006 00:45	1.0						
018	055_018	CCV	pcb500_100			25-FEB-2006 01:13	1.0					1	
019	055_019	X	ccv			25-FEB-2006 01:40	1.0					1	
020	055_020	ICAL	ar2154			25-FEB-2006 02:08	1.0	1.0				10	
021	055_021	ICAL	ar1268			25-FEB-2006 02:35	1.0	1.0				11	
022	055_022	X	hex			25-FEB-2006 03:03	1.0						
023	055_023	BLANK	QC329103	110719	Soil	25-FEB-2006 03:30	1.0	0.8418			1		
024	055_024	LCS	QC329104	110719	Soil	25-FEB-2006 03:58	1.0	0.8367			1		
025	055_025	MSS	184947-013	110719	Soil	25-FEB-2006 04:25	1.0	0.8426			1		
026	055_026	MS	QC329105	110719	Soil	25-FEB-2006 04:52	1.0	0.8331			1		
027	055_027	MSD	QC329106	110719	Soil	25-FEB-2006 05:20	1.0	0.8342			1		
028	055_028	MSS	184933-034	110493	Soil	25-FEB-2006 05:47	20.0						
029	055_029	SAMPLE	184933-043	110719	Soil	25-FEB-2006 06:15	1.0	0.8311			1		
030	055_030	SAMPLE	184933-044	110719	Soil	25-FEB-2006 06:42	1.0	0.8446	2		1	2:CL10BZ=291.336	
031	055_031	SAMPLE	184933-045	110719	Soil	25-FEB-2006 07:10	1.0	0.8251			1		

Stds used: 1=S2101 2=S2097 3=S2098 4=S2099 5=S2770 6=S2771 7=S2102 8=S2103 9=S2181 10=S2665 11=S2638

SEQUENCE SUMMARY FOR 185381 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206080100 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 24-FEB-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	055_032	SAMPLE	184933-048	110719	Soil	25-FEB-2006 07:37	1.0	0.844			1		
033	055_033	X	hex			25-FEB-2006 08:05	1.0						
034	055_034	X	pcb250_50			25-FEB-2006 08:32	1.0					5	
035	055_035	CCV	pcb250_50			25-FEB-2006 09:00	1.0	1.0			1	5	
036	055_036	CCV	ar2154			25-FEB-2006 09:27	1.0	1.0	2		1	10	
037	055_037	CCV	ar1268			25-FEB-2006 09:55	1.0	1.0			1	11	
038	055_038	X	hex			25-FEB-2006 10:22	1.0						
039	055_039	SAMPLE	184933-049	110719	Soil	25-FEB-2006 10:50	1.0	0.8432			1		
040	055_040	SAMPLE	184933-050	110719	Soil	25-FEB-2006 11:17	1.0	0.827			1		
041	055_041	SAMPLE	184933-051	110719	Soil	25-FEB-2006 11:45	1.0	0.8443			1		
042	055_042	SAMPLE	184933-052	110719	Soil	25-FEB-2006 12:12	1.0	0.8229			1		
043	055_043	SAMPLE	184933-053	110719	Soil	25-FEB-2006 12:40	1.0	0.8412			1		
044	055_044	SAMPLE	184947-001	110719	Soil	25-FEB-2006 13:07	1.0	0.8403	2	3	1		
045	055_045	SAMPLE	184947-002	110719	Soil	25-FEB-2006 13:35	1.0						
046	055_046	SAMPLE	184947-003	110719	Soil	25-FEB-2006 14:02	1.0						
047	055_047	SAMPLE	184947-004	110719	Soil	25-FEB-2006 14:30	1.0						
048	055_048	SAMPLE	184947-005	110719	Soil	25-FEB-2006 14:57	1.0						
049	055_049	X	hex			25-FEB-2006 15:25	1.0						
050	055_050	CCV	pcb100_20			25-FEB-2006 15:52	1.0	1.0			1	4	
051	055_051	X	pcb100_20			25-FEB-2006 16:20	1.0					4	
052	055_052	CCV	ar2154			25-FEB-2006 16:47	1.0	1.0	2		1	10	
053	055_053	CCV	ar1268			25-FEB-2006 17:15	1.0	1.0			1	11	
054	055_054	X	hex			25-FEB-2006 17:42	1.0						
055	055_055	BLANK	QC329111	110722	Soil	25-FEB-2006 18:10	1.0	0.8446			1		
056	055_056	LCS	QC329112	110722	Soil	25-FEB-2006 18:38	1.0	0.8446			1		
057	055_057	SAMPLE	184947-006	110719	Soil	25-FEB-2006 19:05	1.0						
058	055_058	SAMPLE	184947-007	110719	Soil	25-FEB-2006 19:33	1.0	0.8426			1		
059	055_059	SAMPLE	184947-008	110719	Soil	25-FEB-2006 20:00	1.0						
060	055_060	SAMPLE	184947-009	110719	Soil	25-FEB-2006 20:28	1.0	0.8303			1		
061	055_061	SAMPLE	184947-010	110719	Soil	25-FEB-2006 20:55	1.0	0.8409			1		
062	055_062	MSS	184955-013	110722	Soil	25-FEB-2006 21:23	1.0	0.8401			1		

206

Stds used: 1=S2101 2=S2097 3=S2098 4=S2099 5=S2770 6=S2771 7=S2102 8=S2103 9=S2181 10=S2665 11=S2638

SEQUENCE SUMMARY FOR 185381 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206080100 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 24-FEB-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
063	055_063	MS	QC329113	110722	Soil	25-FEB-2006 21:50	1.0	0.8311			1		
064	055_064	MSD	QC329114	110722	Soil	25-FEB-2006 22:18	1.0	0.8378			1		
065	055_065	X	hex			25-FEB-2006 22:45	1.0						
066	055_066	CCV	pcb500_100			25-FEB-2006 23:13	1.0	1.0			1	1	
067	055_067	X	ccv			25-FEB-2006 23:40	1.0					1	
068	055_068	CCV	ar2154			26-FEB-2006 00:08	1.0	1.0			1	10	
069	055_069	CCV	ar1268			26-FEB-2006 00:35	1.0	1.0			1	11	
070	055_070	X	hex			26-FEB-2006 01:03	1.0						
071	055_071	SAMPLE	184955-001	110722	Soil	26-FEB-2006 01:31	1.0	0.8364			1		
072	055_072	SAMPLE	184955-002	110722	Soil	26-FEB-2006 01:58	1.0	0.8375			1		
073	055_073	SAMPLE	184955-003	110722	Soil	26-FEB-2006 02:26	1.0	0.8381			1		
074	055_074	SAMPLE	184955-004	110722	Soil	26-FEB-2006 02:53	1.0	0.8367			1		
075	055_075	SAMPLE	184955-005	110722	Soil	26-FEB-2006 03:21	1.0	0.8398			1		
076	055_076	SAMPLE	184955-006	110722	Soil	26-FEB-2006 03:48	1.0	0.8435			1		
077	055_077	SAMPLE	184955-007	110722	Soil	26-FEB-2006 04:16	1.0	0.8423			1		
078	055_078	SAMPLE	184955-008	110722	Soil	26-FEB-2006 04:43	1.0	0.8401			1		
079	055_079	SAMPLE	184955-009	110722	Soil	26-FEB-2006 05:11	1.0	0.8384			1		
080	055_080	SAMPLE	184955-010	110722	Soil	26-FEB-2006 05:38	1.0	0.8446			1		
081	055_081	X	hex			26-FEB-2006 06:06	1.0						
082	055_082	CCV	pcb250_50			26-FEB-2006 06:33	1.0	1.0			1	5	
083	055_083	X	ccv			26-FEB-2006 07:01	1.0					5	
084	055_084	CCV	ar2154			26-FEB-2006 07:28	1.0	1.0			1	10	
085	055_085	CCV	ar1268			26-FEB-2006 07:56	1.0	1.0			1	11	
086	055_086	X	hex			26-FEB-2006 08:23	1.0						
087	055_087	SAMPLE	184955-011	110722	Soil	26-FEB-2006 08:51	1.0						
088	055_088	SAMPLE	184955-012	110722	Soil	26-FEB-2006 09:18	1.0	0.8389			1		
089	055_089	SAMPLE	184955-014	110722	Soil	26-FEB-2006 09:46	1.0						
090	055_090	SAMPLE	185020-010	110722	Soil	26-FEB-2006 10:13	1.0	0.8314			1		
091	055_091	SAMPLE	185099-003	110722	Soil	26-FEB-2006 10:41	1.0	0.8292			1		
092	055_092	SAMPLE	185100-001	110722	Soil	26-FEB-2006 11:08	1.0	0.8401			1		
093	055_093	SAMPLE	185108-001	110722	Soil	26-FEB-2006 11:36	1.0	0.827		2	1		

207

Stds used: 1=S2101 2=S2097 3=S2098 4=S2099 5=S2770 6=S2771 7=S2102 8=S2103 9=S2181 10=S2665 11=S2638

SEQUENCE SUMMARY FOR 185381 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206080100 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 24-FEB-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
094	055_094	SAMPLE	185113-001	110722	Soil	26-FEB-2006 12:04	1.0	0.8457	1		
095	055_095	SAMPLE	185113-002	110722	Soil	26-FEB-2006 12:31	1.0	0.8216	1		
096	055_096	X	hex			26-FEB-2006 12:59	1.0				
097	055_097	X	pcb100_20			26-FEB-2006 13:26	1.0			4	
098	055_098	CCV	pcb100_20			26-FEB-2006 13:54	1.0	1.0	1	4	
099	055_099	CCV	ar2154			26-FEB-2006 14:21	1.0	1.0	1	10	
100	055_100	CCV	ar1268			26-FEB-2006 14:49	1.0	1.0	1	11	
101	055_101	X	hex			26-FEB-2006 15:16	1.0				
102	055_102	BLANK	QC329299	110767	Oil	26-FEB-2006 18:12	1.0	50.0	1		
103	055_103	BS	QC329300	110767	Oil	26-FEB-2006 18:39	1.0	50.0	1		
104	055_104	BSD	QC329301	110767	Oil	26-FEB-2006 19:07	1.0	50.0	1		
105	055_105	SAMPLE	185156-001	110767	Oil	26-FEB-2006 19:34	1.0	50.03	1		
106	055_106	X	hex			26-FEB-2006 20:02	1.0				
107	055_107	X	pcb500_100			26-FEB-2006 20:29	1.0			1	
108	055_108	CCV	pcb500_100			26-FEB-2006 20:57	1.0	1.0	1	1	
109	055_109	CCV	ar2154			26-FEB-2006 21:24	1.0	1.0	1	10	
110	055_110	X	ccv			26-FEB-2006 21:51	1.0			11	
111	055_111	X	hex			26-FEB-2006 22:19	1.0				

208

Stds used: 1=S2101 2=S2097 3=S2098 4=S2099 5=S2770 6=S2771 7=S2102 8=S2103 9=S2181 10=S2665 11=S2638

SEQUENCE SUMMARY FOR 185381 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206097063 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 08-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	067_001	X	hex			08-MAR-2006 09:43	1.0						
002	067_002	X	pcb500_100			08-MAR-2006 10:11	1.0					1	
003	067_003	CCV	pcb500_100			08-MAR-2006 10:38	1.0	1.0			1	1	
004	067_004	SAMPLE	185257-001	110950	Soil	08-MAR-2006 11:09	100.0	0.657			1		
005	067_005	SAMPLE	185257-004	110950	Soil	08-MAR-2006 11:37	200.0	0.6631			1		
006	067_006	SAMPLE	185257-005	110950	Soil	08-MAR-2006 12:04	200.0	0.6631			1		
007	067_007	SAMPLE	185257-006	110950	Soil	08-MAR-2006 12:32	400.0	0.6609			1		
008	067_008	X	hex			08-MAR-2006 13:40	1.0						
009	067_009	CCV	pcb250_50			08-MAR-2006 14:08	1.0	1.0			1	2	
010	067_010	X	ccv			08-MAR-2006 14:35	1.0					2	
011	067_011	ICAL	ar2154			08-MAR-2006 18:34	1.0	1.0				3	
012	067_012	X	ccv			08-MAR-2006 19:02	1.0					3	
013	067_013	X	hex			08-MAR-2006 19:29	1.0						
014	067_014	BLANK	QC330324	111030	Soil	08-MAR-2006 19:57	1.0	0.6667			1		
015	067_015	LCS	QC330325	111030	Soil	08-MAR-2006 20:24	1.0	0.6667			1		
016	067_016	BLANK	QC330348	111036	Soil	08-MAR-2006 20:52	1.0	0.6667			1		
017	067_017	LCS	QC330349	111036	Soil	08-MAR-2006 21:19	1.0	0.6667			1		
018	067_018	MSS	185307-016	111030	Soil	08-MAR-2006 21:47	1.0	0.677			1		
019	067_019	MS	QC330326	111030	Soil	08-MAR-2006 22:14	1.0	0.6601			1		
020	067_020	MSD	QC330327	111030	Soil	08-MAR-2006 22:42	1.0	0.6645			1		
021	067_021	MSS	185204-001	111036	Soil	08-MAR-2006 23:10	1.0	0.6601			1		
022	067_022	MS	QC330350	111036	Soil	08-MAR-2006 23:37	1.0	0.6596			1		
023	067_023	MSD	QC330351	111036	Soil	09-MAR-2006 00:05	1.0	0.6645		1	1		
024	067_024	X	hex			09-MAR-2006 00:32	1.0						
025	067_025	CCV	pcb750_150			09-MAR-2006 01:00	1.0	1.0			1	4	
026	067_026	X	ccv			09-MAR-2006 01:27	2102						
027	067_027	CCV	ar2154			09-MAR-2006 01:55	1.0	1.0			1	3	
028	067_028	X	ccv			09-MAR-2006 02:22	1.0					3	
029	067_029	X	hex			09-MAR-2006 02:50	1.0						
030	067_030	SAMPLE	185168-005	110792	Water	09-MAR-2006 03:17	1.0	0.02358			1		
031	067_031	SAMPLE	185170-005	110792	Water	09-MAR-2006 03:45	1.0	0.02427			1		

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Stds used: 1=S2101 2=S2770 3=S2665 4=S2102

SEQUENCE SUMMARY FOR 185381 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206097063 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 08-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	067_032	SAMPLE	185171-005	110792	Water	09-MAR-2006 04:12	1.0	0.02358		2	1		
033	067_033	SAMPLE	185204-004	110792	Water	09-MAR-2006 04:40	1.0	0.02381			1		
034	067_034	SAMPLE	185205-004	110792	Water	09-MAR-2006 05:07	1.0	0.02358			1		
035	067_035	SAMPLE	185206-005	110792	Water	09-MAR-2006 05:35	1.0	0.02358		2	1		
036	067_036	SAMPLE	185204-002	111036	Soil	09-MAR-2006 06:02	1.0	0.6662			1		
037	067_037	SAMPLE	185204-003	111036	Soil	09-MAR-2006 06:30	1.0						
038	067_038	X	hex			09-MAR-2006 06:57	1.0						
039	067_039	CCV	pcb500_100			09-MAR-2006 07:25	1.0	1.0	1		1	1	
040	067_040	CCV	pcb500_100			09-MAR-2006 07:53	1.0					1	

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Stds used: 1=S2101 2=S2770 3=S2665 4=S2102

SEQUENCE SUMMARY FOR 185381 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206100145 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 10-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	069_001	X	hex			10-MAR-2006 13:05	1.0						
002	069_002	CCV	pcb500_100			10-MAR-2006 13:33	1.0	1.0			1	1	
003	069_003	X	pcb500_100			10-MAR-2006 14:00	1.0					1	
004	069_004	CCV	ar2154			10-MAR-2006 20:41	1.0	1.0			1	2	
005	069_005	X	ccv			10-MAR-2006 21:09	1.0					2	
006	069_006	X	ccv			10-MAR-2006 21:36	1.0					3	
007	069_007	X	hex			10-MAR-2006 22:04	1.0						
008	069_008	BLANK	QC330820	111152	Water	10-MAR-2006 22:31	1.0	0.025			1		
009	069_009	BS	QC330821	111152	Water	10-MAR-2006 22:59	1.0	0.025			1		
010	069_010	BSD	QC330822	111152	Water	10-MAR-2006 23:26	1.0	0.025			1		
011	069_011	BLANK	QC330786	111144	Soil	10-MAR-2006 23:53	1.0	0.8469		1	1		
012	069_012	LCS	QC330787	111144	Soil	11-MAR-2006 00:21	1.0	0.8259		1	1		
013	069_013	SAMPLE	185166-005	110757	Soil	11-MAR-2006 00:48	2.0	0.6748			1		
014	069_014	SAMPLE	185166-010	110757	Soil	11-MAR-2006 01:16	2.0	0.6693			1		
015	069_015	MSS	185386-010	111144	Soil	11-MAR-2006 01:43	1.0	0.8429			1		211
016	069_016	MS	QC330788	111144	Soil	11-MAR-2006 02:11	1.0	0.8292		1	1		
017	069_017	MSD	QC330789	111144	Soil	11-MAR-2006 02:38	1.0	0.8403			1		
018	069_018	X	hex			11-MAR-2006 03:06	1.0						
019	069_019	CCV	pcb250_50			11-MAR-2006 03:33	1.0	1.0			1	4	
020	069_020	X	ccv			11-MAR-2006 04:01	1.0					4	
021	069_021	CCV	ar2154			11-MAR-2006 04:28	1.0	1.0			1	2	
022	069_022	X	ccv			11-MAR-2006 04:56	1.0					2	
023	069_023	X	ccv			11-MAR-2006 05:23	1.0					3	
024	069_024	X	ccv			11-MAR-2006 05:50	1.0					5	
025	069_025	ICAL	ar1248			11-MAR-2006 06:18	1.0	1.0				6	
026	069_026	X	hex			11-MAR-2006 06:45	1.0						
027	069_027	MSS	185204-001	111036	Soil	11-MAR-2006 07:13	1.0	0.6601			1		
028	069_028	SAMPLE	185364-001	111152	Water	11-MAR-2006 07:40	1.0	0.025			1		
029	069_029	SAMPLE	185381-008	111152	Water	11-MAR-2006 08:08	1.0	0.02381			1		
030	069_030	SAMPLE	185381-009	111152	Water	11-MAR-2006 08:35	1.0	0.02358			1		
031	069_031	SAMPLE	185381-010	111152	Water	11-MAR-2006 09:03	1.0	0.02381			1		

Stds used: 1=S2101 2=S2665 3=S2638 4=S2770 5=S2524 6=S2706 7=S2102

SEQUENCE SUMMARY FOR 185381 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206100145 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 10-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	069_032	SAMPLE	185381-013	111152	Water	11-MAR-2006 09:30	1.0	0.02404			1		
033	069_033	SAMPLE	185381-014	111152	Water	11-MAR-2006 09:58	1.0	0.02404			1		
034	069_034	SAMPLE	185386-011	111152	Water	11-MAR-2006 10:25	1.0	0.02358		1	1		
035	069_035	SAMPLE	185406-013	111144	Soil	11-MAR-2006 10:52	1.0	0.8303		1	1		
036	069_036	SAMPLE	185327-001	111144	Soil	11-MAR-2006 11:20	1.0	0.8308			1		
037	069_037	X	hex			11-MAR-2006 11:47	1.0						
038	069_038	X	pcb750_150			11-MAR-2006 12:15	1.0					7	
039	069_039	CCV	pcb750_150			11-MAR-2006 12:42	1.0	1.0			1	7	
040	069_040	CCV	ar2154			11-MAR-2006 13:10	1.0	1.0			1	2	
041	069_041	X	ccv			11-MAR-2006 13:37	1.0					2	
042	069_042	X	ccv			11-MAR-2006 14:05	1.0					3	
043	069_043	X	ccv			11-MAR-2006 14:32	1.0					5	
044	069_044	CCV	ar1248			11-MAR-2006 15:00	1.0	1.0			1	6	
045	069_045	X	hex			11-MAR-2006 15:28	1.0						
046	069_046	SAMPLE	185327-002	111144	Soil	11-MAR-2006 15:55	1.0	0.8356	1	3	1		212
047	069_047	SAMPLE	185327-003	111144	Soil	11-MAR-2006 16:23	1.0	0.8333	1	4	1		
048	069_048	SAMPLE	185327-004	111144	Soil	11-MAR-2006 16:50	1.0	0.8336	1		1		
049	069_049	SAMPLE	185386-001	111144	Soil	11-MAR-2006 17:18	1.0	0.83		2	1		
050	069_050	SAMPLE	185386-002	111144	Soil	11-MAR-2006 17:45	1.0	0.8295		2	1		
051	069_051	SAMPLE	185386-003	111144	Soil	11-MAR-2006 18:13	1.0	0.8322		1	1		
052	069_052	SAMPLE	185386-004	111144	Soil	11-MAR-2006 18:40	1.0	0.8344		1	1		
053	069_053	SAMPLE	185386-005	111144	Soil	11-MAR-2006 19:08	1.0	0.8386		2	1		
054	069_054	SAMPLE	185386-006	111144	Soil	11-MAR-2006 19:35	1.0	0.8322		2	1		
055	069_055	SAMPLE	185386-007	111144	Soil	11-MAR-2006 20:03	1.0	0.8328		2	1		
056	069_056	X	hex			11-MAR-2006 20:30	1.0						
057	069_057	CCV	pcb500_100			11-MAR-2006 20:58	1.0	1.0	2		1	1	
058	069_058	X	pcb500_100			11-MAR-2006 21:25	1.0					1	
059	069_059	CCV	ar2154			11-MAR-2006 21:53	1.0	1.0			1	2	
060	069_060	X	ccv			11-MAR-2006 22:20	1.0					2	
061	069_061	X	ccv			11-MAR-2006 22:48	1.0					5	
062	069_062	X	ccv			11-MAR-2006 23:15	1.0					6	

Stds used: 1=S2101 2=S2665 3=S2638 4=S2770 5=S2524 6=S2706 7=S2102

SEQUENCE SUMMARY FOR 185381 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206100145 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 10-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
063	069_063	X	hex			11-MAR-2006 23:43	1.0						
064	069_064	SAMPLE	185386-008	111144	Soil	12-MAR-2006 00:10	1.0	0.8347		2	1		
065	069_065	SAMPLE	185386-009	111144	Soil	12-MAR-2006 00:38	1.0	0.8292		3	1		
066	069_066	X	hex			12-MAR-2006 01:05	1.0						
067	069_067	CCV	pcb250_50			12-MAR-2006 01:33	1.0	1.0	4		1	4	
068	069_068	X	ccv			12-MAR-2006 02:00	1.0					4	
069	069_069	X	ccv			12-MAR-2006 02:28	1.0					2	
070	069_070	X	ccv			12-MAR-2006 02:55	1.0					2	
071	069_071	X	ccv			12-MAR-2006 03:23	1.0					5	
072	069_072	X	ccv			12-MAR-2006 03:50	1.0					6	
073	069_073	X	hex			12-MAR-2006 04:18	1.0						

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Stds used: 1=S2101 2=S2665 3=S2638 4=S2770 5=S2524 6=S2706 7=S2102

REPORTING SUMMARY FOR 185381 PCBS Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185381-008	Aroclor-1016	GC06	A	03/11/06 08:08
185381-008	Aroclor-1221	GC06	A	03/11/06 08:08
185381-008	Aroclor-1232	GC06	A	03/11/06 08:08
185381-008	Aroclor-1242	GC06	A	03/11/06 08:08
185381-008	Aroclor-1248	GC06	A	03/11/06 08:08
185381-008	Aroclor-1254	GC06	A	03/11/06 08:08
185381-008	Aroclor-1260	GC06	A	03/11/06 08:08
185381-008	TCMX	GC06	A	03/11/06 08:08
185381-008	Decachlorobiphenyl	GC06	A	03/11/06 08:08
185381-009	Aroclor-1016	GC06	A	03/11/06 08:35
185381-009	Aroclor-1221	GC06	A	03/11/06 08:35
185381-009	Aroclor-1232	GC06	A	03/11/06 08:35
185381-009	Aroclor-1242	GC06	A	03/11/06 08:35
185381-009	Aroclor-1248	GC06	A	03/11/06 08:35
185381-009	Aroclor-1254	GC06	A	03/11/06 08:35
185381-009	Aroclor-1260	GC06	A	03/11/06 08:35
185381-009	TCMX	GC06	A	03/11/06 08:35
185381-009	Decachlorobiphenyl	GC06	A	03/11/06 08:35
185381-010	Aroclor-1016	GC06	A	03/11/06 09:03
185381-010	Aroclor-1221	GC06	A	03/11/06 09:03
185381-010	Aroclor-1232	GC06	A	03/11/06 09:03
185381-010	Aroclor-1242	GC06	A	03/11/06 09:03
185381-010	Aroclor-1248	GC06	A	03/11/06 09:03
185381-010	Aroclor-1254	GC06	A	03/11/06 09:03
185381-010	Aroclor-1260	GC06	A	03/11/06 09:03
185381-010	TCMX	GC06	A	03/11/06 09:03
185381-010	Decachlorobiphenyl	GC06	A	03/11/06 09:03
185381-013	Aroclor-1016	GC06	A	03/11/06 09:30
185381-013	Aroclor-1221	GC06	A	03/11/06 09:30
185381-013	Aroclor-1232	GC06	A	03/11/06 09:30
185381-013	Aroclor-1242	GC06	A	03/11/06 09:30
185381-013	Aroclor-1248	GC06	A	03/11/06 09:30
185381-013	Aroclor-1254	GC06	A	03/11/06 09:30
185381-013	Aroclor-1260	GC06	A	03/11/06 09:30
185381-013	TCMX	GC06	A	03/11/06 09:30
185381-013	Decachlorobiphenyl	GC06	A	03/11/06 09:30
185381-014	Aroclor-1016	GC06	A	03/11/06 09:58
185381-014	Aroclor-1221	GC06	A	03/11/06 09:58
185381-014	Aroclor-1232	GC06	A	03/11/06 09:58
185381-014	Aroclor-1242	GC06	A	03/11/06 09:58
185381-014	Aroclor-1248	GC06	A	03/11/06 09:58
185381-014	Aroclor-1254	GC06	A	03/11/06 09:58
185381-014	Aroclor-1260	GC06	A	03/11/06 09:58
185381-014	TCMX	GC06	A	03/11/06 09:58
185381-014	Decachlorobiphenyl	GC06	A	03/11/06 09:58
QC330820	Aroclor-1016	GC06	A	03/10/06 22:31
QC330820	Aroclor-1221	GC06	A	03/10/06 22:31
QC330820	Aroclor-1232	GC06	A	03/10/06 22:31
QC330820	Aroclor-1242	GC06	A	03/10/06 22:31

REPORTING SUMMARY FOR 185381 PCBS Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC330820	Aroclor-1248	GC06	A	03/10/06 22:31
QC330820	Aroclor-1254	GC06	A	03/10/06 22:31
QC330820	Aroclor-1260	GC06	A	03/10/06 22:31
QC330820	TCMX	GC06	A	03/10/06 22:31
QC330820	Decachlorobiphenyl	GC06	A	03/10/06 22:31
QC330821	Aroclor-1221	GC06	A	03/10/06 22:59
QC330821	TCMX	GC06	A	03/10/06 22:59
QC330821	Decachlorobiphenyl	GC06	A	03/10/06 22:59
QC330822	Aroclor-1221	GC06	A	03/10/06 23:26
QC330822	TCMX	GC06	A	03/10/06 23:26
QC330822	Decachlorobiphenyl	GC06	A	03/10/06 23:26

Curtis & Tompkins Laboratories **Sample Preparation Summary** **10-MAR-2006 10:31**

Batch Number : 111152
Date Extracted: 09-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : PCB
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2719B
Spike #2 ID : S2797A
Spike #3 ID :
SOP Version : PCB_w_rv7

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185364-001		CH2M Hill Constructors Inc.	Water	1000	mL	25	0.025000	1	6	.05	0		PCB	3665A	
185381-008		Treadwell & Rollo	Water	1050	mL	25	0.023810	1	6	.05	0		PCB	3665A	
185381-009		Treadwell & Rollo	Water	1060	mL	25	0.023585	1	6	.05	0		PCB	3665A	
185381-010		Treadwell & Rollo	Water	1050	mL	25	0.023810	1	6	.05	0		PCB	3665A	
185381-013		Treadwell & Rollo	Water	1040	mL	25	0.024038	1	6	.05	0		PCB	3665A	
185381-014		Treadwell & Rollo	Water	1040	mL	25	0.024038	1	6	.05	0		PCB	3665A	
185386-011		Environmental Quality Manageme	Water	1060	mL	25	0.023585	1	5	.05	0		PCB	3665A	
QC330820	BLANK		Water	1000	mL	25	0.025000	1		.05	0		PCB	3665A	
QC330821	BS		Water	1000	mL	25	0.025000	1		.05	.05		PCB	3665A	
QC330822	BSD		Water	1000	mL	25	0.025000	1		.05	.05		PCB	3665A	

Prep Chemist: Jessie Mee Reviewed By: KP Date: 11-MAR-06

Relinquished By: Dan McC Received By: Jennifer Gargano Date: 3/13/06

Curtis & Tompkins, Ltd

PCB WATER PREP LOG

BK 2231
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LIMS Batch No: 111152
LIMS Analysis: PCB
Extracted by: JDM
Date Extracted: 9 Mar 06

Extraction Method:
☐ EPA 3510c Sep. Funnel
☒ EPA 3520c Continuous L/L
☐ Other _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Comments
185364-001 D	1000	6	25.0	
185381-008 C	1050	↓	↓	
09 ↓	1060	↓	↓	
10 ↓	1050	↓	↓	
13 J	1040	↓	↓	
14 J	1040	↓	↓	
185386-011 A	1060	5	↓	
MB QC330320	1000	NA	↓	
BS ↓ 21	↓	↓	↓	
BSD ↓ 22	↓	↓	↓	
				DLM 3/10/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.05 mL of surrogate solution was added to all samples	S2719B	JDM 3/9/06
0.05 mL of spike solution AR1221 was added to all spikes	S2797A	↓
☒ Samples were continuously extracted with about 450 mL CH_2Cl_2	EM46014	↓
Extraction Start Time:	1238	↓
Extraction End Time:	0645	DLM 3/10/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	↓
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM45118532	↓
Concentrated to volumes noted above after 2x exchange w/ Hexane lot#	CP890	↓
EPA 3665A Clean-up: Vortexed w/ 10mL H_2SO_4 lot #	JTB B24063	↓
Centrifuged for 1min; 10mL transferred to labelled vial	✓	↓

Jessie O'Neel 3/9/06
Extraction Chemist **Date**

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Contined from Page —
Continued on Page _____

11-MAR-06
Reviewed by **Date**

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8082 Water
As of 03/31/06

Analyte	Units	GC06 A	GC06 B	GC22 A	GC22 B	GC25 A	GC25 B
Aroclor-1016	ug/L	0.054	0.054	0.058	0.029	0.11	0.12
Aroclor-1221	ug/L	0.31	0.29	0.41	0.33	0.37	0.63
Aroclor-1232	ug/L	0.11	0.088	0.19	0.34	0.16	0.087
Aroclor-1242	ug/L	0.15	0.16	0.24	0.22	0.14	0.15
Aroclor-1248	ug/L	0.30	0.34	0.097	0.061	0.038	0.051
Aroclor-1254	ug/L	0.086	0.11	0.11	0.14	0.12	0.13
Aroclor-1260	ug/L	0.079	0.14	0.059	0.037	0.097	0.12

POLYAROMATIC HYDROCARBONS

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	LF5GW104	Batch#:	111149
Lab ID:	185381-011	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Prepared:	03/09/06
Diln Fac:	1.000	Analyzed:	03/10/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	96	65-135
1-Methylnaphthalene (F)	88	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	DUP0307063B	Batch#:	111149
Lab ID:	185381-012	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Prepared:	03/09/06
Diln Fac:	1.000	Analyzed:	03/11/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	92	65-135
1-Methylnaphthalene (F)	85	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	1349MW102	Batch#:	111149
Lab ID:	185381-013	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Prepared:	03/09/06
Diln Fac:	1.000	Analyzed:	03/11/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.95	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.95	
Fluorene	ND	0.95	
Phenanthrene	ND	0.48	
Anthracene	ND	0.48	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	90	65-135
1-Methylnaphthalene (F)	83	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	DUP0307063C	Batch#:	111149
Lab ID:	185381-014	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Prepared:	03/09/06
Diln Fac:	1.000	Analyzed:	03/11/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.96	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.96	
Fluorene	ND	0.96	
Phenanthrene	ND	0.48	
Anthracene	ND	0.48	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	89	65-135
1-Methylnaphthalene (F)	81	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	600GW108	Batch#:	111149
Lab ID:	185381-019	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Prepared:	03/09/06
Diln Fac:	1.000	Analyzed:	03/11/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	93	65-135
1-Methylnaphthalene (F)	85	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	DUP0307061B	Batch#:	111149
Lab ID:	185381-020	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	ug/L	Prepared:	03/09/06
Diln Fac:	1.000	Analyzed:	03/11/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.97	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.97	
Fluorene	ND	0.97	
Phenanthrene	ND	0.49	
Anthracene	ND	0.49	0.008
Fluoranthene	ND	0.39	0.02
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	90	65-135
1-Methylnaphthalene (F)	82	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC330806	Batch#:	111149
Matrix:	Water	Prepared:	03/09/06
Units:	ug/L	Analyzed:	03/10/06

Analyte	Result	RL	MDL
Naphthalene	ND	1.0	
Acenaphthylene	ND	2.0	
Acenaphthene	ND	1.0	
Fluorene	ND	1.0	
Phenanthrene	ND	0.50	
Anthracene	ND	0.50	0.008
Fluoranthene	ND	0.40	0.02
Pyrene	ND	0.20	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	89	65-135
1-Methylnaphthalene (F)	84	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC330807	Batch#:	111149
Matrix:	Water	Prepared:	03/09/06
Units:	ug/L	Analyzed:	03/10/06

Analyte	Spiked	Result	%REC	Limits
Naphthalene	10.00	9.611	96	50-135
Fluorene	2.000	1.927	96	65-135
Pyrene	1.000	0.9373	94	65-135
Benzo(a)pyrene	1.000	0.9299	93	65-135

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	93	65-135
1-Methylnaphthalene (F)	87	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	ZZZZZZZZZZ	Batch#:	111149
MSS Lab ID:	185358-005	Sampled:	03/06/06
Matrix:	Water	Received:	03/07/06
Units:	ug/L	Prepared:	03/09/06
Diln Fac:	1.000	Analyzed:	03/10/06

Type: MS Lab ID: QC330808

Analyte	MSS Result	Spiked	Result	%REC	Limits
Naphthalene	<0.06826	9.434	8.699	92	50-135
Fluorene	<0.01455	1.887	1.700	90	65-135
Pyrene	<0.007060	0.9434	0.7822	83	65-135
Benzo(a)pyrene	<0.007399	0.9434	0.8079	86	65-135

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	89	65-135
1-Methylnaphthalene (F)	83	65-135

Type: MSD Lab ID: QC330809

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Naphthalene	9.434	8.702	92	50-135	0	35
Fluorene	1.887	1.758	93	65-135	3	35
Pyrene	0.9434	0.8094	86	65-135	3	35
Benzo(a)pyrene	0.9434	0.8405	89	65-135	4	35

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	91	65-135
1-Methylnaphthalene (F)	84	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185381 HPLC Water: EPA 8310

Inst : HPLC04
Calnum : 295454249001
Units : ug/L

Date : 11-NOV-2005 13:27
X Axis : R

Reviewer: MCH
Inj Vol : 10 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	31500006	295454249006		11-NOV-2005 13:27	S1620
L2	31500007	295454249007		11-NOV-2005 13:58	S1619
L3	31500008	295454249008		11-NOV-2005 14:30	S1618
L4	31500009	295454249009		11-NOV-2005 15:02	S1617
L5	31500010	295454249010		11-NOV-2005 15:33	S1616
L6	31500011	295454249011		11-NOV-2005 16:05	S1615
L7	31500012	295454249012		11-NOV-2005 16:36	S1614

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Naphthalene	1	0.0130	0.0130	0.0130	0.0132	0.0131	0.0129	0.0130	LINR	-24.714	77.1181		0.0130	1.000	0.99	20	
Acenaphthylene	1	0.0092	0.0091	0.0093	0.0095	0.0094	0.0092	0.0091	LINR	-214.44	109.425		0.0093	1.000	0.99	20	
Acenaphthene	1	0.0049	0.0049	0.0051	0.0052	0.0051	0.0050	0.0050	LINR	-85.609	200.350		0.0050	1.000	0.99	20	
Fluorene	1	0.0623	0.0618	0.0631	0.0639	0.0633	0.0627	0.0629	LINR	-2.8635	15.9062		0.0629	1.000	0.99	20	
Phenanthrene	1	0.1801	0.1766	0.1803	0.1826	0.1801	0.1784	0.1795	LINR	-1.3045	5.57871		0.1797	1.000	0.99	20	
Anthracene	1	0.4031	0.4032	0.4080	0.4134	0.4084	0.4043	0.4050	LINR	-3.4533	2.47159		0.4065	1.000	0.99	20	
Fluoranthene	1	0.0405	0.0401	0.0407	0.0416	0.0411	0.0407	0.0412	LINR	4.76117	24.3260		0.0408	1.000	0.99	20	
Pyrene	1	0.0324	0.0319	0.0332	0.0334	0.0330	0.0331	0.0336	LINR	8.56100	29.7835		0.0329	1.000	0.99	20	
Benzo(a)anthracene	1	0.0846	0.0904	0.0906	0.0917	0.0910	0.0903	0.0918	LINR	6.16312	10.9120		0.0901	1.000	0.99	20	
Chrysene	1	0.1299	0.1298	0.1319	0.1351	0.1332	0.1321	0.1335	LINR	2.64524	7.49865		0.1322	1.000	0.99	20	
Benzo(b)fluoranthene	1	0.0989	0.1025	0.1054	0.1076	0.1069	0.1059	0.1068	LINR	5.37165	9.37329		0.1049	1.000	0.99	20	
Benzo(k)fluoranthene	1	0.0806	0.0758	0.0785	0.0804	0.0803	0.0803	0.0814	LINR	9.05452	12.2962		0.0796	1.000	0.99	20	
Benzo(a)pyrene	1	0.0781	0.0812	0.0842	0.0867	0.0863	0.0861	0.0870	LINR	8.12100	11.4914		0.0842	1.000	0.99	20	
Dibenz(a,h)anthracene	1	0.0174	0.0209	0.0203	0.0209	0.0211	0.0213	0.0216	LINR	28.9418	46.3202		0.0205	1.000	0.99	20	
Benzo(g,h,i)perylene	1	0.0332	0.0346	0.0347	0.0354	0.0353	0.0353	0.0357	LINR	17.3259	27.9927		0.0349	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	1	0.0843	0.0838	0.0916	0.0948	0.0947	0.0946	0.0953	LINR	8.70680	10.4860		0.0913	1.000	0.99	20	
1-Methylnaphthalene (UV)	1	0.0084	0.0085	0.0086	0.0086	0.0085	0.0084	0.0084	LINR	-262.66	119.128		0.0085	1.000	0.99	20	
Acenaphthylene	2	0.0273	0.0273	0.0279	0.0282	0.0280	0.0277	0.0279	LINR	7.54152	35.8750		0.0277	1.000	0.99	20	
1-Methylnaphthalene (UV)	2	0.0030	0.0030	0.0031	0.0031	0.0031	0.0030	0.0030	LINR	-125.29	329.273		0.0031	1.000	0.99	20	
Naphthalene	3	0.0118	0.0118	0.0118	0.0119	0.0119	0.0117	0.0116	LINR	-94.622	86.2298		0.0118	1.000	0.99	20	
Acenaphthene	3	0.0242	0.0241	0.0242	0.0246	0.0244	0.0239		LINR	-65.047	41.8154		0.0242	1.000	0.99	20	
Fluorene	3	0.1329	0.1328	0.1337	0.1349	0.1333	0.1303		LINR	-17.920	7.68242		0.1330	1.000	0.99	20	
Phenanthrene	3	0.1403	0.1414	0.1416	0.1432	0.1419	0.1386	0.1387	LINR	-8.7849	7.22392		0.1408	1.000	0.99	20	
Anthracene	3	0.4105	0.4089	0.4142	0.4203	0.4141	0.4106	0.4119	LINR	-2.5156	2.43034		0.4129	1.000	0.99	20	
Fluoranthene	3	0.0408	0.0402	0.0409	0.0415	0.0411	0.0406	0.0409	LINR	-2.6821	24.5038		0.0409	1.000	0.99	20	
Pyrene	3	0.1357	0.1319	0.1342	0.1369	0.1342	0.1312	0.1332	LINR	-2.1762	7.53143		0.1339	1.000	0.99	20	

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Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Benzo(a)anthracene	3	0.1507	0.1492	0.1525	0.1551	0.1526	0.1506	0.1519	LINR	-1.3548	6.59583		0.1518	1.000	0.99	20	
Chrysene	3	0.1830	0.1826	0.1864	0.1898	0.1872	0.1843	0.1845	LINR	-5.3078	5.42554		0.1854	1.000	0.99	20	
Benzo(b)fluoranthene	3	0.0661	0.0655	0.0671	0.0681	0.0672	0.0664	0.0670	LINR	-0.3738	14.9546		0.0668	1.000	0.99	20	
Benzo(k)fluoranthene	3	0.3904	0.3881	0.3960	0.4014	0.3974	0.3923	0.3904	LINR	-7.1975	2.56238		0.3937	1.000	0.99	20	
Benzo(a)pyrene	3	0.2124	0.2112	0.2162	0.2193	0.2168	0.2137	0.2143	LINR	-3.8765	4.67175		0.2148	1.000	0.99	20	
Dibenz(a,h)anthracene	3	0.0298	0.0299	0.0311	0.0319	0.0317	0.0316	0.0320	LINR	14.7159	31.2756		0.0311	1.000	0.99	20	
Benzo(g,h,i)perylene	3	0.0617	0.0613	0.0626	0.0641	0.0636	0.0633	0.0639	LINR	8.49542	15.6646		0.0629	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	3	0.0928	0.0930	0.0946	0.0968	0.0967	0.0963	0.0973	LINR	6.16011	10.2852		0.0953	1.000	0.99	20	
1-Methylnaphthalene (F)	3	0.0132	0.0131	0.0132	0.0133	0.0132	0.0128		LINR	-457.43	78.4104		0.0131	1.000	0.99	20	

LINR=Linear regression

Instrument amount = a0 + response * a1 + response^2 * a2

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Calibration Table

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NEW ICAL. 14 NOV 2005

HPLC04 METHOD 8310

Calib. Data Modified : 11/14/2005 4:07:02 PM

Calculate : External Standard
Based on : Peak Area

Rel. Reference Window : 1.000 %
Abs. Reference Window : 0.200 min
Rel. Non-ref. Window : 1.000 %
Abs. Non-ref. Window : 0.250 min
Do not use Multiplier & Dilution Factor with ISTDs
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Signal 1: DAD1 A, Sig=254,4 Ref=480,80
Signal 2: DAD1 B, Sig=305,4 Ref=480,80
Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
4.798	1	1	500.00000	6.51225	76.77836			Naphthalene
		2	1000.00000	13.02439	76.77905			
		3	2500.00000	32.45070	77.03995			
		4	5000.00000	65.81794	75.96713			
		5	1.00000e4	130.82538	76.43777			
		6	2.50000e4	323.61371	77.25260			
		7	5.00000e4	648.90906	77.05240			
4.839	3	1	500.00000	5.89779	84.77755			Naphthalene
		2	1000.00000	11.75017	85.10517			
		3	2500.00000	29.52386	84.67727			
		4	5000.00000	59.72798	83.71286			
		5	1.00000e4	118.70710	84.24096			
		6	2.50000e4	292.13416	85.57712			
		7	5.00000e4	580.05115	86.19930			
6.052	1	1	1000.00000	9.19383	108.76859			Acenaphthylene
		2	2000.00000	18.17297	110.05354			
		3	5000.00000	46.41474	107.72440			
		4	1.00000e4	94.72365	105.57026			
		5	2.00000e4	187.69478	106.55597			
		6	5.00000e4	461.84637	108.26111			
		7	1.00000e5	913.74396	109.43985			
6.053	2	1	1000.00000	27.33126	36.58814			Acenaphthylene
		2	2000.00000	54.50918	36.69107			
		3	5000.00000	139.26938	35.90165			

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RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		4	1.00000e4	281.69171	35.49980			
		5	2.00000e4	559.80969	35.72643			
		6	5.00000e4	1386.26819	36.06806			
		7	1.00000e5	2790.07104	35.84138			
6.831	1	1	2000.00000	16.88634	118.43892			1-Methylnaphthalene (UV)
		2	4000.00000	33.87627	118.07677			
		3	1.00000e4	85.59682	116.82676			
		4	2.00000e4	172.90190	115.67253			
		5	4.00000e4	341.59979	117.09609			
		6	1.00000e5	839.73962	119.08453			
		7	2.00000e5	1681.10107	118.96965			
6.832	2	1	2000.00000	6.07634	329.14529			1-Methylnaphthalene (UV)
		2	4000.00000	12.02570	332.62101			
		3	1.00000e4	30.92526	323.36029			
		4	2.00000e4	62.05173	322.31170			
		5	4.00000e4	122.53880	326.42721			
		6	1.00000e5	302.71973	330.33856			
		7	2.00000e5	608.23541	328.82005			
6.872	3	1	2000.00000	26.32489	75.97373			1-Methylnaphthalene (F)
		2	4000.00000	52.31355	76.46202			
		3	1.00000e4	131.50134	76.04485			
		4	2.00000e4	266.55655	75.03098			
		5	4.00000e4	526.67639	75.94796			
		6	1.00000e5	1276.22900	78.35584			
7.280	1	1	500.00000	5.56723	89.81128			2-Methylnaphthalene
		2	1000.00000	11.21599	89.15845			
		3	2500.00000	28.88600	86.54713			
		4	5000.00000	58.62328	85.29035			
		5	1.00000e4	116.21339	86.04861			
		6	2.50000e4	286.22339	87.34436			
7.335	3	1	500.00000	7.99274	62.55677			2-Methylnaphthalene
		2	1000.00000	15.91236	62.84423			
		3	2500.00000	40.03383	62.44718			
		4	5000.00000	81.15388	61.61135			
		5	1.00000e4	161.03452	62.09849			
		6	2.50000e4	395.10352	63.27456			
7.672	1	1	500.00000	2.42577	206.12028			Acenaphthene
		2	1000.00000	4.86201	205.67637			
		3	2500.00000	12.71169	196.66929			
		4	5000.00000	25.83322	193.54924			
		5	1.00000e4	51.07816	195.77838			
		6	2.50000e4	125.66128	198.94752			
		7	5.00000e4	249.59686	200.32303			
7.712	3	1	500.00000	12.09695	41.33272			Acenaphthene
		2	1000.00000	24.11610	41.46607			
		3	2500.00000	60.52220	41.30716			
		4	5000.00000	122.93717	40.67118			
		5	1.00000e4	243.99982	40.98364			
		6	2.50000e4	597.90503	41.81266			
8.199	1	1	100.00000	6.23287	16.04397			Fluorene
		2	200.00000	12.36933	16.16903			
		3	500.00000	31.54358	15.85108			
		4	1000.00000	63.90393	15.64849			
		5	2000.00000	126.50168	15.81007			
		6	5000.00000	313.40030	15.95404			
		7	1.00000e4	629.23938	15.89220			
8.239	3	1	100.00000	13.29075	7.52403			Fluorene
		2	200.00000	26.56478	7.52876			
		3	500.00000	66.85545	7.47882			
		4	1000.00000	134.87556	7.41424			
		5	2000.00000	266.58530	7.50229			
		6	5000.00000	651.29639	7.67700			
9.318	1	1	50.00000	9.00343	5.55344			Phenanthrene

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RetTime [min]	Lvl Sig		Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	100.00000	17.66359	5.66136			
		3	250.00000	45.08168	5.54549			
		4	500.00000	91.29965	5.47647			
		5	1000.00000	180.14212	5.55117			
		6	2500.00000	446.01529	5.60519			
		7	5000.00000	897.40991	5.57159			
9.358	3	1	50.00000	7.01743	7.12511			Phenanthrene
		2	100.00000	14.14166	7.07130			
		3	250.00000	35.38944	7.06425			
		4	500.00000	71.59289	6.98393			
		5	1000.00000	141.86461	7.04897			
		6	2500.00000	346.48584	7.21530			
		7	5000.00000	693.25409	7.21236			
10.346	1	1	50.00000	20.15521	2.48075			Anthracene
		2	100.00000	40.32065	2.48012			
		3	250.00000	101.99684	2.45106			
		4	500.00000	206.70654	2.41889			
		5	1000.00000	408.35837	2.44883			
		6	2500.00000	1010.66217	2.47363			
		7	5000.00000	2024.80078	2.46938			
10.386	3	1	50.00000	20.52480	2.43608			Anthracene
		2	100.00000	40.89180	2.44548			
		3	250.00000	103.54391	2.41443			
		4	500.00000	210.14381	2.37932			
		5	1000.00000	414.05106	2.41516			
		6	2500.00000	1026.49353	2.43548			
		7	5000.00000	2059.37134	2.42793			
11.504	1	1	100.00000	4.05160	24.68162			Fluoranthene
		2	200.00000	8.01856	24.94213			
		3	500.00000	20.35011	24.56989			
		4	1000.00000	41.57235	24.05445			
		5	2000.00000	82.13621	24.34980			
		6	5000.00000	203.73349	24.54187			
		7	1.00000e4	411.60339	24.29523			
11.543	3	1	100.00000	4.08160	24.50019			Fluoranthene
		2	200.00000	8.04222	24.86875			
		3	500.00000	20.46036	24.43750			
		4	1000.00000	41.54289	24.07151			
		5	2000.00000	82.12543	24.35299			
		6	5000.00000	203.17122	24.60978			
		7	1.00000e4	408.57028	24.47559			
12.274	1	1	50.00000	1.62059	30.85291			Pyrene
		2	100.00000	3.19098	31.33834			
		3	250.00000	8.29422	30.14147			
		4	500.00000	16.68730	29.96290			
		5	1000.00000	32.97289	30.32795			
		6	2500.00000	82.77225	30.20336			
		7	5000.00000	168.06082	29.75113			
12.313	3	1	50.00000	6.78313	7.37123			Pyrene
		2	100.00000	13.19262	7.58000			
		3	250.00000	33.54156	7.45344			
		4	500.00000	68.45862	7.30368			
		5	1000.00000	134.23868	7.44942			
		6	2500.00000	328.05682	7.62063			
		7	5000.00000	665.85370	7.50916			
15.125	1	1	50.00000	4.23180	11.81530			Benzo(a)anthracene
		2	100.00000	9.04188	11.05964			
		3	250.00000	22.65013	11.03746			
		4	500.00000	45.84408	10.90653			
		5	1000.00000	91.03773	10.98446			
		6	2500.00000	225.67519	11.07787			
		7	5000.00000	459.00107	10.89322			
15.164	3	1	50.00000	7.53349	6.63703			Benzo(a)anthracene

RetTime [min]	Lvl Sig		Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	100.00000	14.92142	6.70177			
		3	250.00000	38.11910	6.55839			
		4	500.00000	77.56648	6.44608			
		5	1000.00000	152.59743	6.55319			
		6	2500.00000	376.53439	6.63950			
		7	5000.00000	759.30841	6.58494			
15.624	1	1	50.00000	6.49550	7.69764			Chrysene
		2	100.00000	12.97757	7.70560			
		3	250.00000	32.97633	7.58119			
		4	500.00000	67.56745	7.40001			
		5	1000.00000	133.20935	7.50698			
		6	2500.00000	330.15082	7.57230			
		7	5000.00000	667.71228	7.48826			
15.664	3	1	50.00000	9.15220	5.46317			Chrysene
		2	100.00000	18.25678	5.47742			
		3	250.00000	46.59403	5.36549			
		4	500.00000	94.90897	5.26821			
		5	1000.00000	187.15659	5.34312			
		6	2500.00000	460.78613	5.42551			
		7	5000.00000	922.53937	5.41982			
17.842	1	1	100.00000	9.89154	10.10965			Benzo(b)fluoranthene
		2	200.00000	20.49215	9.75983			
		3	500.00000	52.71000	9.48587			
		4	1000.00000	107.62183	9.29180			
		5	2000.00000	213.82385	9.35349			
		6	5000.00000	529.55377	9.44191			
		7	1.00000e4	1067.59534	9.36684			
17.883	3	1	100.00000	6.61389	15.11970			Benzo(b)fluoranthene
		2	200.00000	13.10739	15.25857			
		3	500.00000	33.56808	14.89510			
		4	1000.00000	68.05548	14.69389			
		5	2000.00000	134.33257	14.88842			
		6	5000.00000	331.92670	15.06357			
		7	1.00000e4	669.70776	14.93189			
18.796	1	1	50.00000	4.03241	12.39953			Benzo(k)fluoranthene
		2	100.00000	7.57503	13.20127			
		3	250.00000	19.62153	12.74110			
		4	500.00000	40.20050	12.43765			
		5	1000.00000	80.29658	12.45383			
		6	2500.00000	200.76387	12.45244			
		7	5000.00000	406.82126	12.29041			
18.837	3	1	50.00000	19.52037	2.56143			Benzo(k)fluoranthene
		2	100.00000	38.80871	2.57674			
		3	250.00000	99.01035	2.52499			
		4	500.00000	200.72287	2.49100			
		5	1000.00000	397.35812	2.51662			
		6	2500.00000	980.66785	2.54928			
		7	5000.00000	1952.04028	2.56142			
19.734	1	1	50.00000	3.90437	12.80616			Benzo(a)pyrene
		2	100.00000	8.12252	12.31145			
		3	250.00000	21.05889	11.87147			
		4	500.00000	43.33799	11.53722			
		5	1000.00000	86.29072	11.58873			
		6	2500.00000	215.14328	11.62016			
		7	5000.00000	435.20081	11.48895			
19.774	3	1	50.00000	10.62241	4.70703			Benzo(a)pyrene
		2	100.00000	21.12371	4.73402			
		3	250.00000	54.04917	4.62542			
		4	500.00000	109.65622	4.55970			
		5	1000.00000	216.76112	4.61337			
		6	2500.00000	534.25336	4.67943			
		7	5000.00000	1071.43713	4.66663			
21.335	1	1	100.00000	1.74457	57.32080			Dibenz(a,h)anthracene

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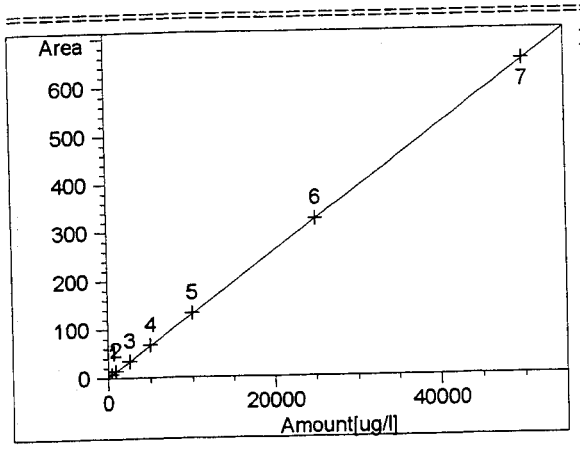
RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	200.00000	4.18672	47.77004			
		3	500.00000	10.15091	49.25669			
		4	1000.00000	20.86957	47.91665			
		5	2000.00000	42.28377	47.29947			
		6	5000.00000	106.57118	46.91700			
		7	1.00000e4	215.69028	46.36278			
21.376	3	1	100.00000	2.98045	33.55199			Dibenz(a,h)anthracene
		2	200.00000	5.97678	33.46283			
		3	500.00000	15.56407	32.12527			
		4	1000.00000	31.90387	31.34416			
		5	2000.00000	63.43048	31.53058			
		6	5000.00000	158.05646	31.63427			
		7	1.00000e4	319.90201	31.25957			
22.099	1	1	100.00000	3.32142	30.10762			Benzo(g,h,i)perylene
		2	200.00000	6.91262	28.93260			
		3	500.00000	17.35672	28.80728			
		4	1000.00000	35.38666	28.25924			
		5	2000.00000	70.51058	28.36454			
		6	5000.00000	176.29678	28.36127			
		7	1.00000e4	357.48672	27.97307			
22.140	3	1	100.00000	6.17302	16.19953			Benzo(g,h,i)perylene
		2	200.00000	12.25580	16.31880			
		3	500.00000	31.30061	15.97413			
		4	1000.00000	64.07645	15.60636			
		5	2000.00000	127.25459	15.71653			
		6	5000.00000	316.47900	15.79884			
		7	1.00000e4	638.82190	15.65382			
22.620	1	1	50.00000	4.21460	11.86352			Indeno(1,2,3-cd)pyrene
		2	100.00000	8.38093	11.93185			
		3	250.00000	22.88771	10.92289			
		4	500.00000	47.41936	10.54422			
		5	1000.00000	94.73141	10.55616			
		6	2500.00000	236.57013	10.56769			
		7	5000.00000	476.41440	10.49506			
22.661	3	1	50.00000	4.64120	10.77307			Indeno(1,2,3-cd)pyrene
		2	100.00000	9.29544	10.75796			
		3	250.00000	23.65410	10.56899			
		4	500.00000	48.39191	10.33231			
		5	1000.00000	96.65224	10.34637			
		6	2500.00000	240.76752	10.38346			
		7	5000.00000	486.34088	10.28085			

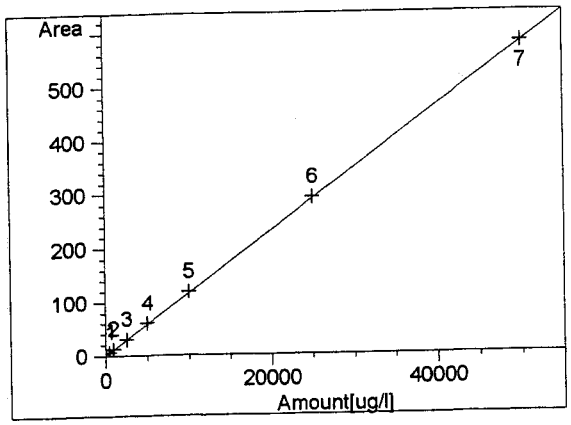
Peak Sum Table

No Entries in table

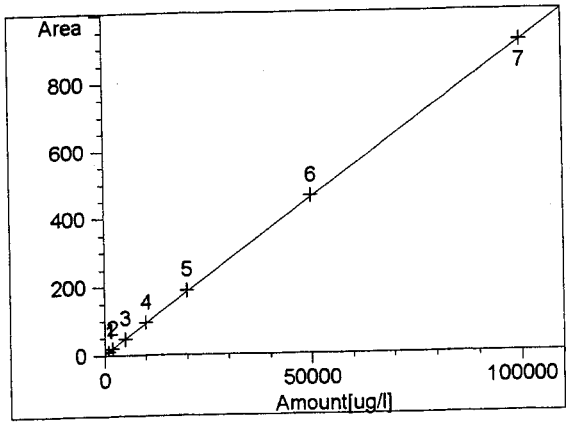
Calibration Curves



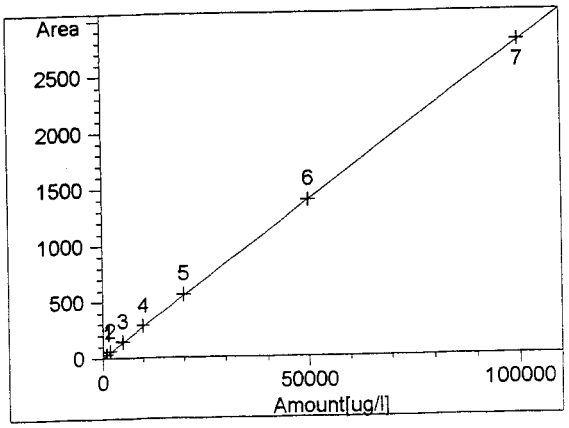
Naphthalene at exp. RT: 4.798
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.66440
Formula: y = mx + b
m: 1.29671e-2
b: 3.20474e-1
x: Amount[ug/l]
y: Area



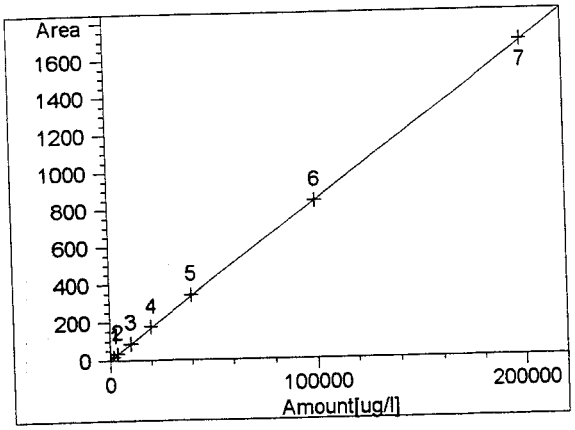
Naphthalene at exp. RT: 4.839
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.21267
Formula: y = mx + b
m: 1.15969e-2
b: 1.09732
x: Amount[ug/l]
y: Area



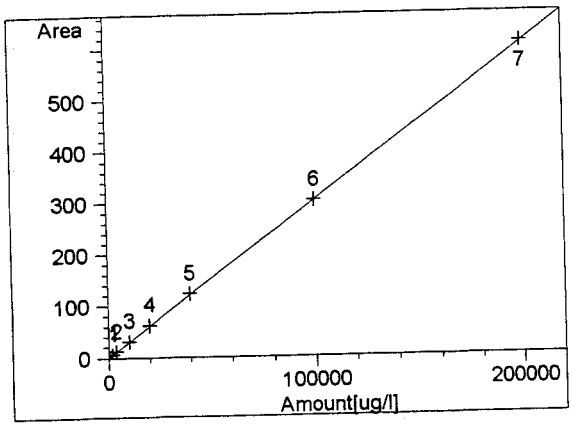
Acenaphthylene at exp. RT: 6.052
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 2.57482
Formula: y = mx + b
m: 9.13868e-3
b: 1.95971
x: Amount[ug/l]
y: Area



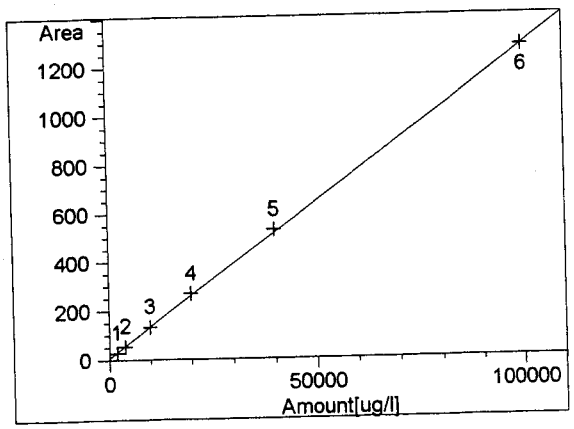
Acenaphthylene at exp. RT: 6.053
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 3.95166
Formula: y = mx + b
m: 2.78746e-2
b: -2.10217e-1
x: Amount[ug/l]
y: Area



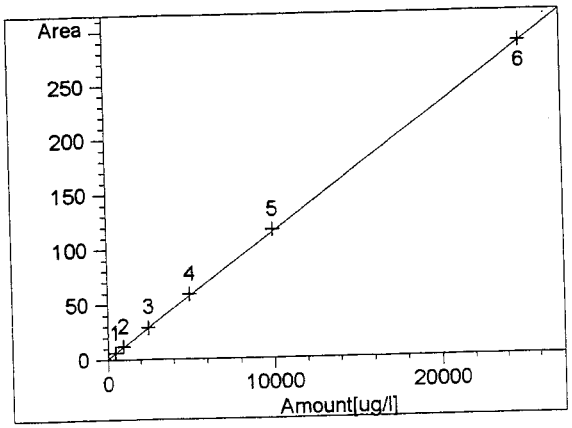
1-Methylnaphthalene (UV) at exp. RT: 6.831
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 2.56891
Formula: y = mx + b
m: 8.39433e-3
b: 2.20489
x: Amount[ug/l]
y: Area



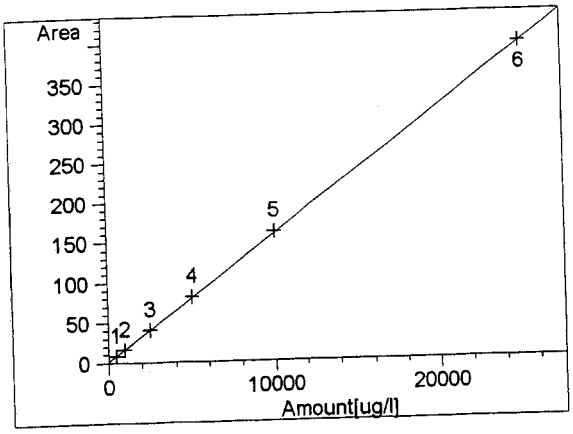
1-Methylnaphthalene (UV) at exp. RT: 6.832
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.87319
Formula: y = mx + b
m: 3.03699e-3
b: 3.80514e-1
x: Amount[ug/l]
y: Area



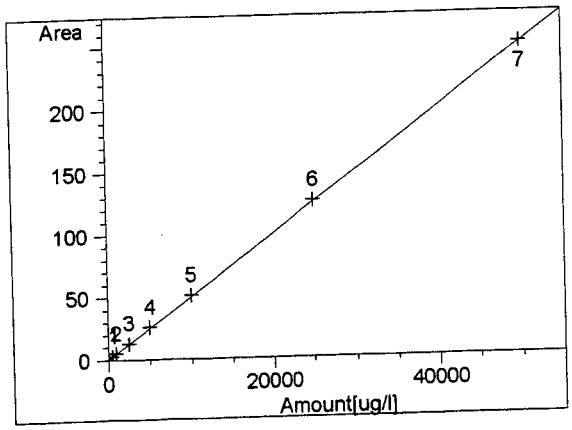
1-Methylnaphthalene (F) at exp. RT: 6.872
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99990
Residual Std. Dev.: 7.42050
Formula: y = mx + b
m: 1.27534e-2
b: 5.83375
x: Amount[ug/l]
y: Area



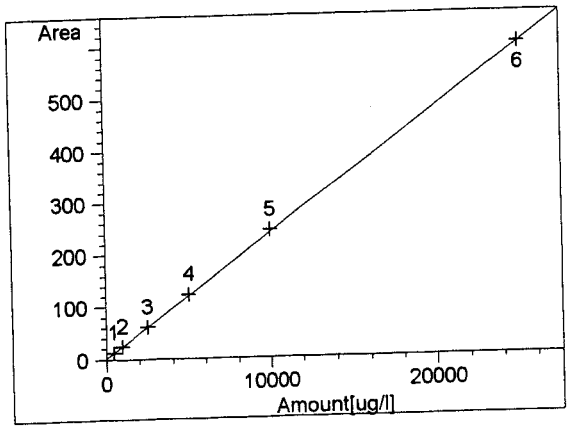
2-Methylnaphthalene at exp. RT: 7.280
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 0.93927
Formula: y = mx + b
m: 1.14550e-2
b: 4.51222e-1
x: Amount[ug/l]
y: Area



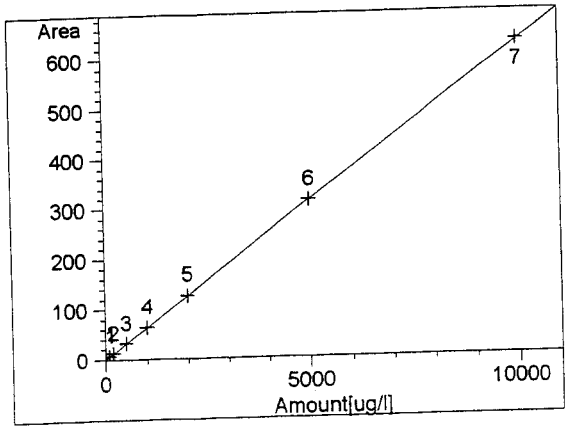
2-Methylnaphthalene at exp. RT: 7.335
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 1.42306
Formula: y = mx + b
m: 1.58022e-2
b: 9.88789e-1
x: Amount[ug/l]
y: Area



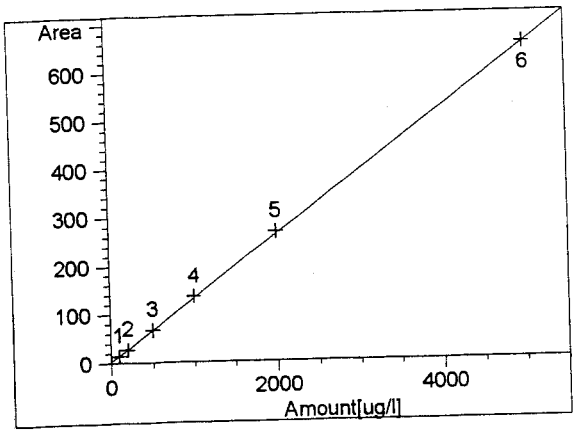
Acenaphthene at exp. RT: 7.672
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.58330
Formula: y = mx + b
m: 4.99125e-3
b: 4.27298e-1
x: Amount[ug/l]
y: Area



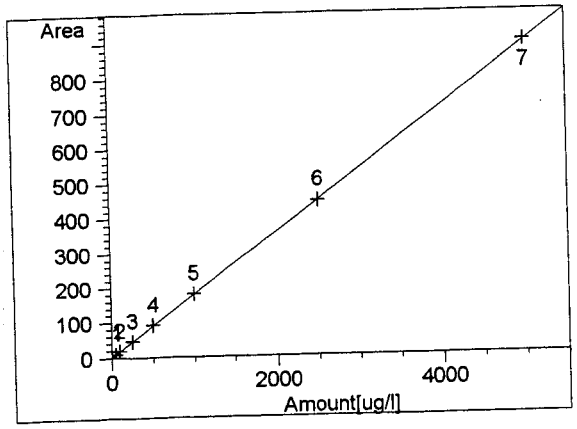
Acenaphthene at exp. RT: 7.712
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 2.28893
Formula: y = mx + b
m: 2.39146e-2
b: 1.55557
x: Amount[ug/l]
y: Area



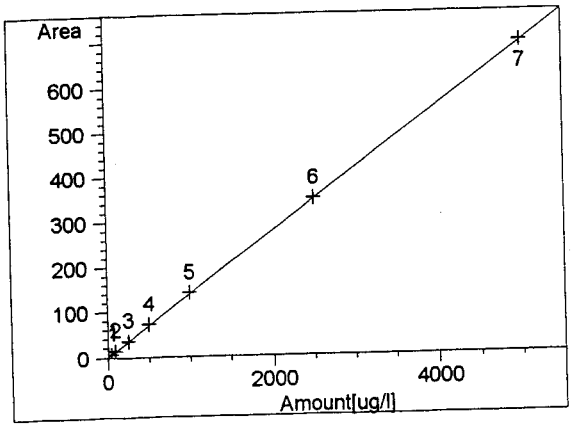
Fluorene at exp. RT: 8.199
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.73220
Formula: y = mx + b
m: 6.28687e-2
b: 1.80023e-1
x: Amount[ug/l]
y: Area



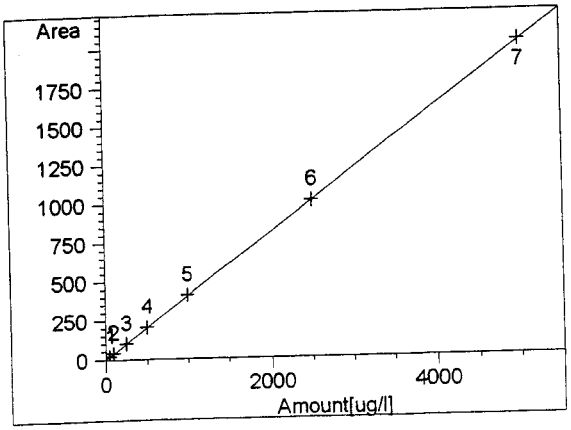
Fluorene at exp. RT: 8.239
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99995
Residual Std. Dev.: 2.84162
Formula: y = mx + b
m: 1.30167e-1
b: 2.33256
x: Amount[ug/l]
y: Area



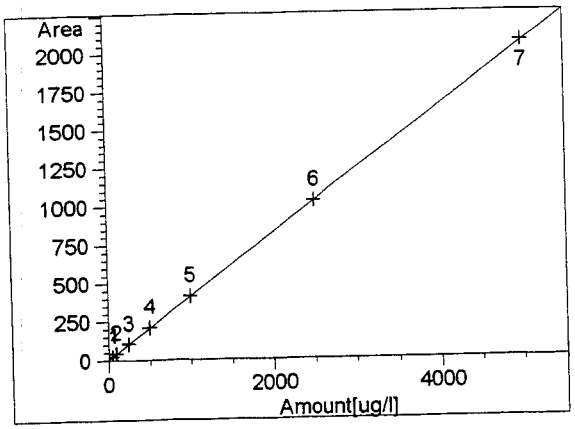
Phenanthrene at exp. RT: 9.318
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 1.35222
Formula: y = mx + b
m: 1.79253e-1
b: 2.33836e-1
x: Amount[ug/l]
y: Area



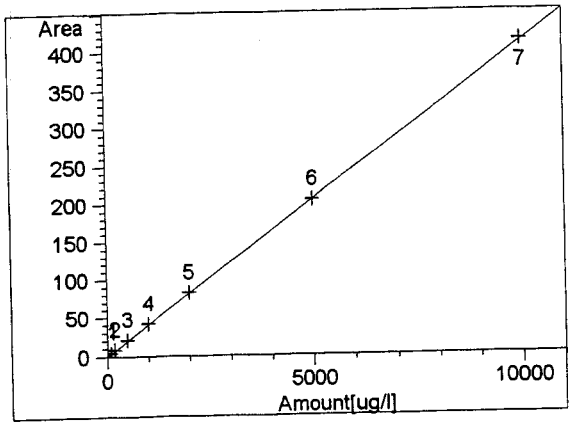
Phenanthrene at exp. RT: 9.358
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.35775
Formula: y = mx + b
m: 1.38429e-1
b: 1.21609
x: Amount[ug/l]
y: Area



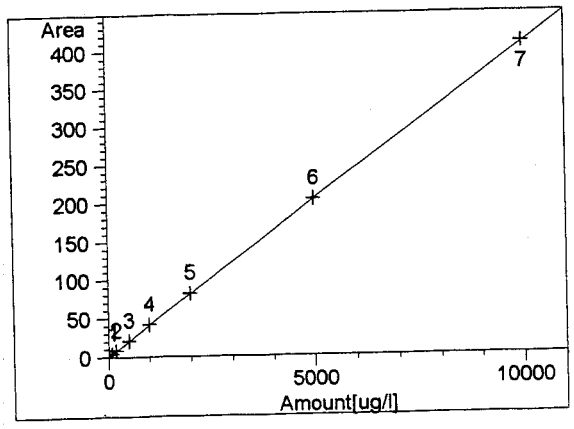
Anthracene at exp. RT: 10.346
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 2.21901
Formula: y = mx + b
m: 4.04598e-1
b: 1.39720
x: Amount[ug/l]
y: Area



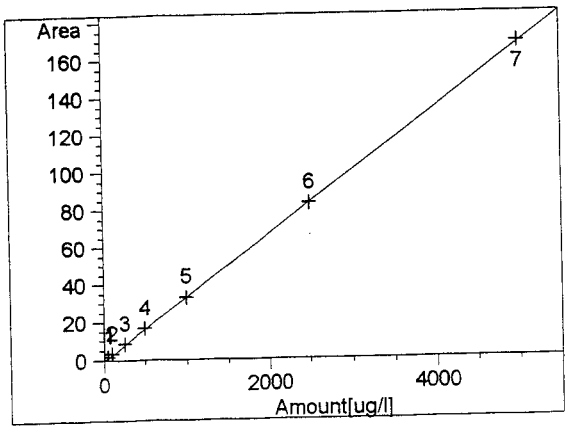
Anthracene at exp. RT: 10.386
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 2.36890
Formula: y = mx + b
m: 4.11465e-1
b: 1.03508
x: Amount[ug/l]
y: Area



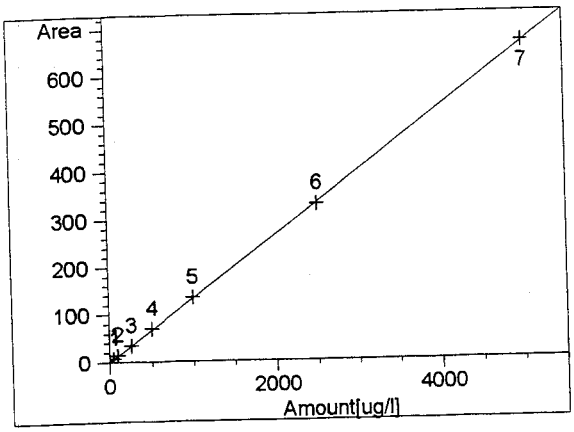
Fluoranthene at exp. RT: 11.504
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.84613
Formula: y = mx + b
m: 4.11083e-2
b: -1.95725e-1
x: Amount[ug/l]
y: Area



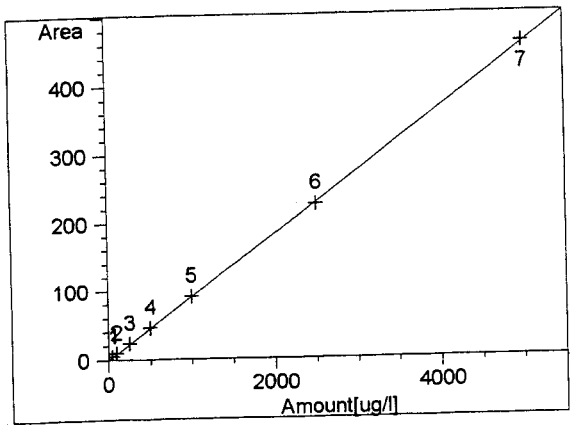
Fluoranthene at exp. RT: 11.543
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.58645
Formula: y = mx + b
m: 4.08100e-2
b: 1.09457e-1
x: Amount[ug/l]
y: Area



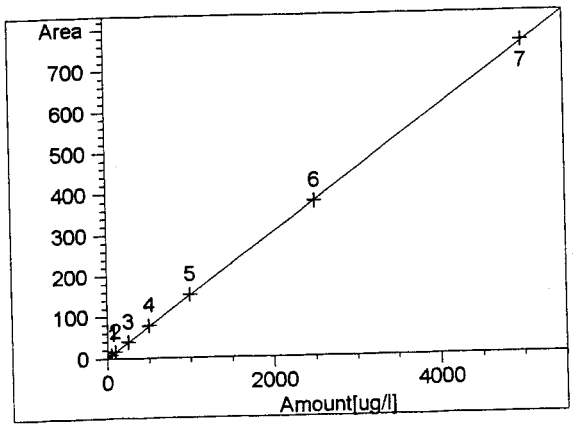
Pyrene at exp. RT: 12.274
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 0.49621
Formula: y = mx + b
m: 3.35757e-2
b: -2.87441e-1
x: Amount[ug/l]
y: Area



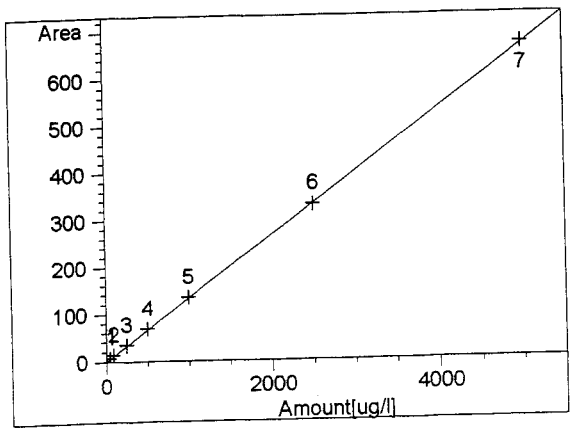
Pyrene at exp. RT: 12.313
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 2.23433
Formula: y = mx + b
m: 1.32777e-1
b: 2.88948e-1
x: Amount[ug/l]
y: Area



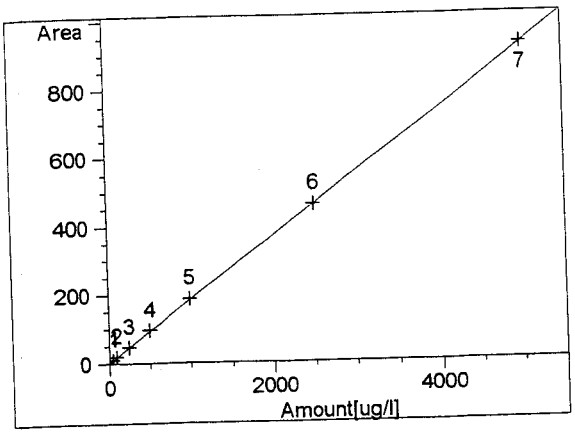
Benzo(a)anthracene at exp. RT: 15.125
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 1.46481
Formula: y = mx + b
m: 9.16421e-2
b: -5.64799e-1
x: Amount[ug/l]
y: Area



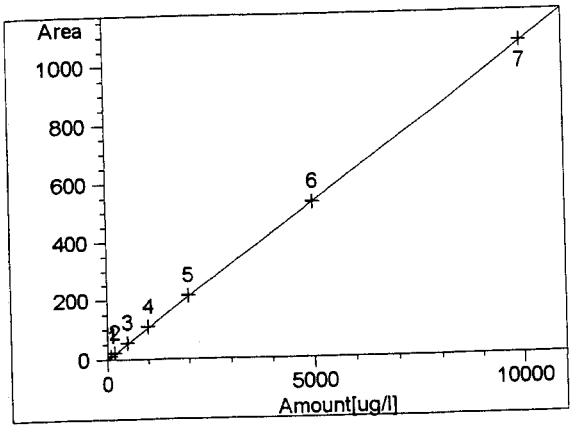
Benzo(a)anthracene at exp. RT: 15.164
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.52788
Formula: y = mx + b
m: 1.51611e-1
b: 2.05410e-1
x: Amount[ug/l]
y: Area



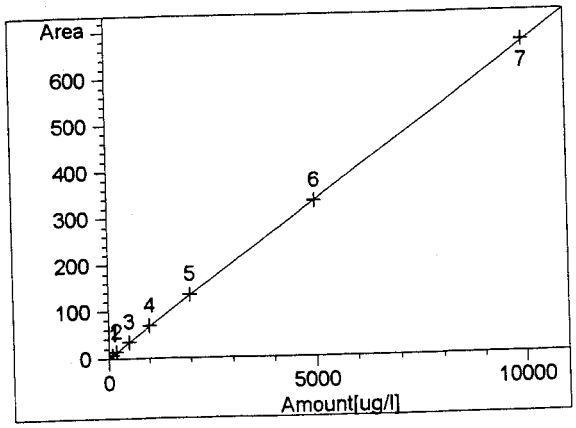
Chrysene at exp. RT: 15.624
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 1.52322
Formula: y = mx + b
m: 1.33357e-1
b: -3.52762e-1
x: Amount[ug/l]
y: Area



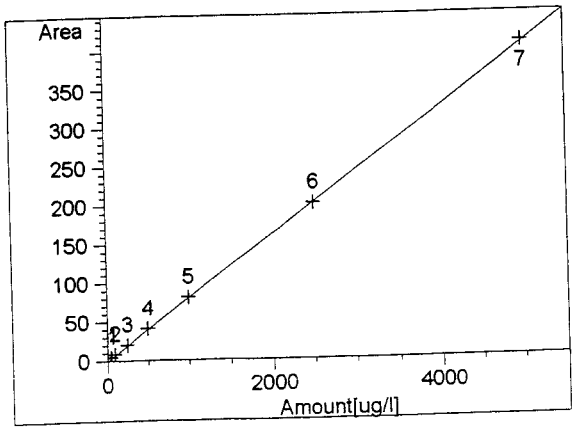
Chrysene at exp. RT: 15.664
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.42864
Formula: y = mx + b
m: 1.84313e-1
b: 9.78301e-1
x: Amount[ug/l]
y: Area



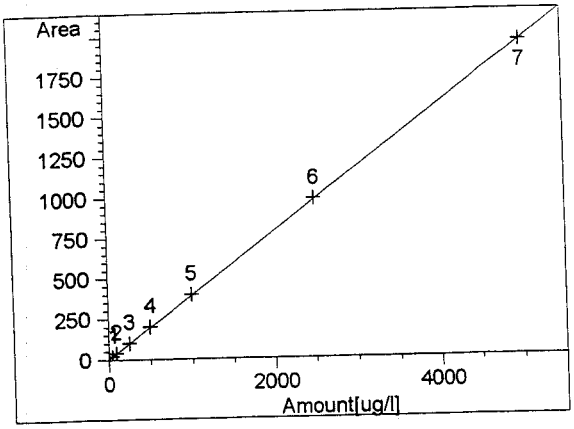
Benzo(b)fluoranthene at exp. RT: 17.842
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 1.79272
Formula: y = mx + b
m: 1.06686e-1
b: -5.73080e-1
x: Amount[ug/l]
y: Area



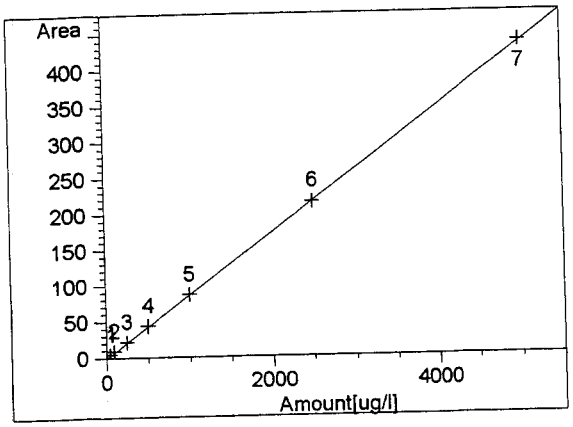
Benzo(b)fluoranthene at exp. RT: 17.883
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.32175
Formula: y = mx + b
m: 6.68690e-2
b: 2.49898e-2
x: Amount[ug/l]
y: Area



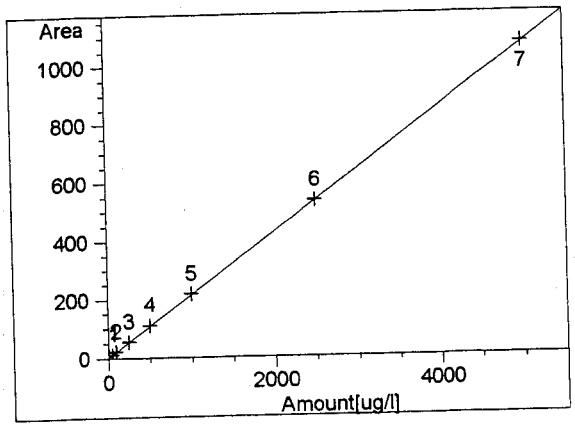
Benzo(k)fluoranthene at exp. RT: 18.796
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.98396
Formula: y = mx + b
m: 8.13261e-2
b: -7.36369e-1
x: Amount[ug/l]
y: Area



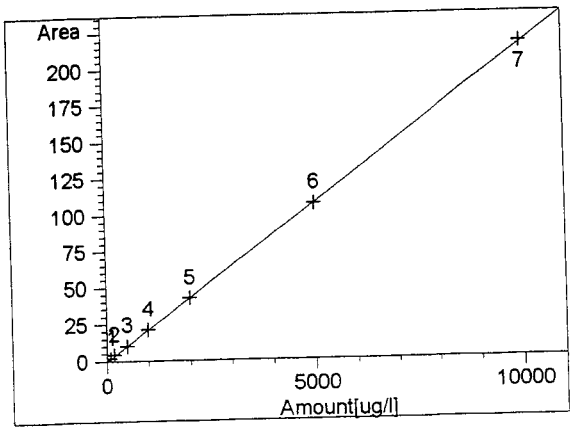
Benzo(k)fluoranthene at exp. RT: 18.837
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 3.29157
Formula: y = mx + b
m: 3.90262e-1
b: 2.80891
x: Amount[ug/l]
y: Area



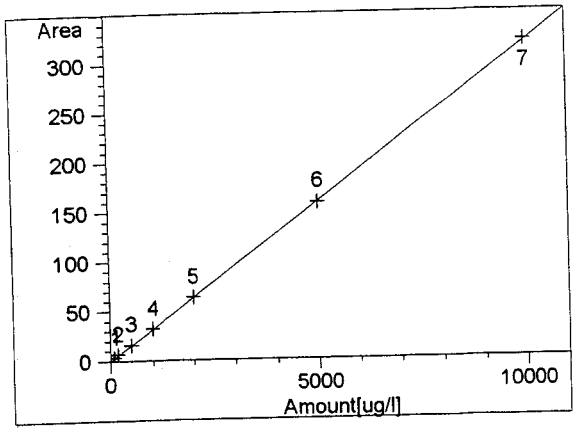
Benzo(a)pyrene at exp. RT: 19.734
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.88457
Formula: y = mx + b
m: 8.70219e-2
b: -7.06704e-1
x: Amount[ug/l]
y: Area



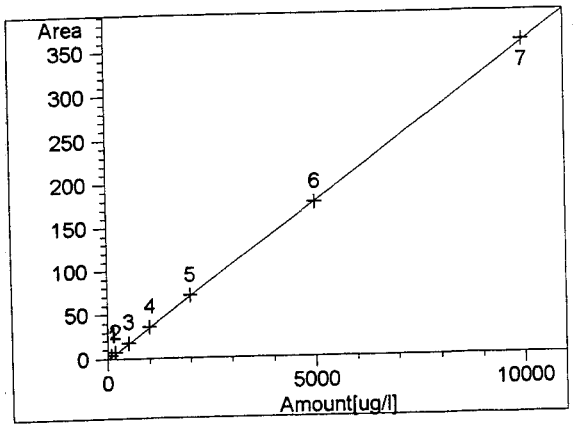
Benzo(a)pyrene at exp. RT: 19.774
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.54630
Formula: y = mx + b
m: 2.14053e-1
b: 8.29784e-1
x: Amount[ug/l]
y: Area



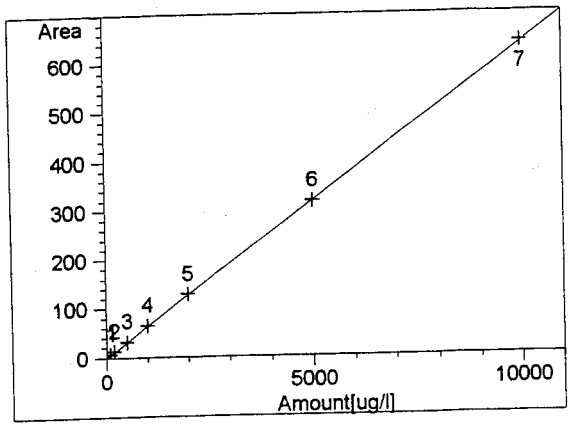
Dibenz(a,h)anthracene at exp. RT: 21.335
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.47152
Formula: y = mx + b
m: 2.15889e-2
b: -6.24820e-1
x: Amount[ug/l]
y: Area



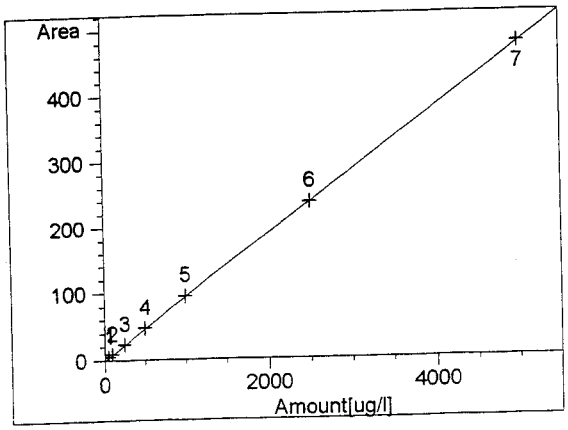
Dibenz(a,h)anthracene at exp. RT: 21.376
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.69795
Formula: y = mx + b
m: 3.19738e-2
b: -4.70523e-1
x: Amount[ug/l]
y: Area



Benzo(g,h,i)perylene at exp. RT: 22.099
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.90912
Formula: y = mx + b
m: 3.57236e-2
b: -6.18946e-1
x: Amount[ug/l]
y: Area

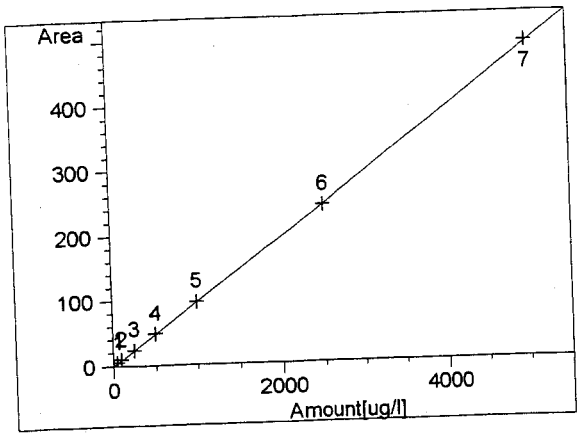


Benzo(g,h,i)perylene at exp. RT: 22.140
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.13249
Formula: y = mx + b
m: 6.38382e-2
b: -5.42335e-1
x: Amount[ug/l]
y: Area



Indeno(1,2,3-cd)pyrene at exp. RT: 22.620
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.59301
Formula: y = mx + b
m: 9.53650e-2
b: -8.30323e-1
x: Amount[ug/l]
y: Area

Method G:\HPLC4\METHODS\8310-315.M



Indeno(1,2,3-cd)pyrene at exp. RT: 22.661
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.87865
Formula: y = mx + b
m: 9.72272e-2
b: -5.98930e-1
x: Amount[ug/l]
y: Area

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CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185381 HPLC Water
EPA 8310

Inst : HPLC04
Calnum : 295454249001 Cal Date: 11-NOV-2005

ICV 295454249015 (31500015 11-NOV-2005) stds: S1859

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1	5000	5429	ug/L	9	15	
Acenaphthylene	1	10000	11450	ug/L	14	15	
Acenaphthene	1	5000	5731	ug/L	15	15	
Fluorene	1	1000	1083	ug/L	8	15	
Phenanthrene	1	500.0	527.1	ug/L	5	15	
Anthracene	1	500.0	541.6	ug/L	8	15	
Fluoranthene	1	1000	1095	ug/L	9	15	
Pyrene	1	500.0	544.7	ug/L	9	15	
Benzo(a)anthracene	1	500.0	539.7	ug/L	8	15	
Chrysene	1	500.0	541.3	ug/L	8	15	
Benzo(b)fluoranthene	1	1000	1079	ug/L	8	15	
Benzo(k)fluoranthene	1	500.0	541.4	ug/L	8	15	
Benzo(a)pyrene	1	500.0	528.7	ug/L	6	15	
Dibenz(a,h)anthracene	1	1000	1083	ug/L	8	15	
Benzo(g,h,i)perylene	1	1000	1068	ug/L	7	15	
Indeno(1,2,3-cd)pyrene	1	500.0	543.1	ug/L	9	15	
Acenaphthylene	2	10000	10910	ug/L	9	15	
Naphthalene	3	5000	5415	ug/L	8	15	
Acenaphthene	3	5000	5652	ug/L	13	15	
Fluorene	3	1000	1080	ug/L	8	15	
Phenanthrene	3	500.0	519.8	ug/L	4	15	
Anthracene	3	500.0	542.4	ug/L	8	15	
Fluoranthene	3	1000	1101	ug/L	10	15	
Pyrene	3	500.0	543.9	ug/L	9	15	
Benzo(a)anthracene	3	500.0	536.6	ug/L	7	15	
Chrysene	3	500.0	537.3	ug/L	7	15	
Benzo(b)fluoranthene	3	1000	1079	ug/L	8	15	
Benzo(k)fluoranthene	3	500.0	544.4	ug/L	9	15	
Benzo(a)pyrene	3	500.0	526.8	ug/L	5	15	
Dibenz(a,h)anthracene	3	1000	1078	ug/L	8	15	
Benzo(g,h,i)perylene	3	1000	1049	ug/L	5	15	
Indeno(1,2,3-cd)pyrene	3	500.0	542.2	ug/L	8	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185381 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: L IDF : 1.0
Seqnum : 296100139004 File : 06900004 Time : 10-MAR-2006 14:37
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2256

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0137	2500	2611	ug/L	4	15	
Acenaphthylene	1	0.0093	0.0097	5000	5073	ug/L	1	15	
Acenaphthene	1	0.0050	0.0057	2500	2760	ug/L	10	15	
Fluorene	1	0.0629	0.0656	500.0	518.6	ug/L	4	15	
Phenanthrene	1	0.1797	0.1858	250.0	257.8	ug/L	3	15	
Anthracene	1	0.4065	0.4381	250.0	267.3	ug/L	7	15	
Fluoranthene	1	0.0408	0.0413	500.0	507.1	ug/L	1	15	
Pyrene	1	0.0329	0.0350	250.0	268.9	ug/L	8	15	
Benzo(a)anthracene	1	0.0901	0.0994	250.0	277.3	ug/L	11	15	
Chrysene	1	0.1322	0.1406	250.0	266.2	ug/L	6	15	
Benzo(b)fluoranthene	1	0.1049	0.1109	500.0	525.2	ug/L	5	15	
Benzo(k)fluoranthene	1	0.0796	0.0863	250.0	274.2	ug/L	10	15	
Benzo(a)pyrene	1	0.0842	0.0912	250.0	270.2	ug/L	8	15	
Dibenz(a,h)anthracene	1	0.0205	0.0217	500.0	530.4	ug/L	6	15	
Benzo(g,h,i)perylene	1	0.0349	0.0359	500.0	519.6	ug/L	4	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.1028	250.0	278.2	ug/L	11	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0083	50000	49130	ug/L	-2	15	
Acenaphthylene	2	0.0277	0.0292	5000	5240	ug/L	5	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	48460	ug/L	-3	15	
Naphthalene	3	0.0118	0.0118	2500	2442	ug/L	-2	15	
Acenaphthene	3	0.0242	0.0245	2500	2497	ug/L	0	15	
Fluorene	3	0.1330	0.1336	500.0	495.2	ug/L	-1	15	
Phenanthrene	3	0.1408	0.1398	250.0	243.8	ug/L	-2	15	
Anthracene	3	0.4129	0.4349	250.0	261.7	ug/L	5	15	
Fluoranthene	3	0.0409	0.0401	500.0	488.7	ug/L	-2	15	
Pyrene	3	0.1339	0.1355	250.0	252.9	ug/L	1	15	
Benzo(a)anthracene	3	0.1518	0.1591	250.0	261.0	ug/L	4	15	
Chrysene	3	0.1854	0.1885	250.0	250.4	ug/L	0	15	
Benzo(b)fluoranthene	3	0.0668	0.0660	500.0	493.5	ug/L	-1	15	
Benzo(k)fluoranthene	3	0.3937	0.4060	250.0	252.9	ug/L	1	15	
Benzo(a)pyrene	3	0.2148	0.2196	250.0	252.6	ug/L	1	15	
Dibenz(a,h)anthracene	3	0.0311	0.0318	500.0	511.5	ug/L	2	15	
Benzo(g,h,i)perylene	3	0.0629	0.0613	500.0	489.0	ug/L	-2	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.0992	250.0	261.2	ug/L	4	15	
1-Methylnaphthalene (F)	3	0.0131	0.0120	50000	46580	ug/L	-7	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185381 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: M IDF : 1.0
Seqnum : 296100139018 File : 06900018 Time : 10-MAR-2006 22:00
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2255

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0138	5000	5284	ug/L	6	15	
Acenaphthylene	1	0.0093	0.0097	10000	10440	ug/L	4	15	
Acenaphthene	1	0.0050	0.0055	5000	5391	ug/L	8	15	
Fluorene	1	0.0629	0.0657	1000	1043	ug/L	4	15	
Phenanthrene	1	0.1797	0.1873	500.0	521.1	ug/L	4	15	
Anthracene	1	0.4065	0.4428	500.0	543.8	ug/L	9	15	
Fluoranthene	1	0.0408	0.0421	1000	1028	ug/L	3	15	
Pyrene	1	0.0329	0.0353	500.0	534.1	ug/L	7	15	
Benzo(a)anthracene	1	0.0901	0.1008	500.0	556.1	ug/L	11	15	
Chrysene	1	0.1322	0.1413	500.0	532.4	ug/L	6	15	
Benzo(b)fluoranthene	1	0.1049	0.1118	1000	1054	ug/L	5	15	
Benzo(k)fluoranthene	1	0.0796	0.0859	500.0	537.0	ug/L	7	15	
Benzo(a)pyrene	1	0.0842	0.0928	500.0	541.2	ug/L	8	15	
Dibenz(a,h)anthracene	1	0.0205	0.0225	1000	1072	ug/L	7	15	
Benzo(g,h,i)perylene	1	0.0349	0.0367	1000	1045	ug/L	5	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.1064	500.0	566.8	ug/L	13	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0083	50000	49000	ug/L	-2	15	
Acenaphthylene	2	0.0277	0.0295	10000	10580	ug/L	6	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0029	50000	48080	ug/L	-4	15	
Naphthalene	3	0.0118	0.0115	5000	4851	ug/L	-3	15	
Acenaphthene	3	0.0242	0.0242	5000	4985	ug/L	0	15	
Fluorene	3	0.1330	0.1349	1000	1018	ug/L	2	15	
Phenanthrene	3	0.1408	0.1367	500.0	484.9	ug/L	-3	15	
Anthracene	3	0.4129	0.4403	500.0	532.6	ug/L	7	15	
Fluoranthene	3	0.0409	0.0403	1000	984.9	ug/L	-2	15	
Pyrene	3	0.1339	0.1282	500.0	480.5	ug/L	-4	15	
Benzo(a)anthracene	3	0.1518	0.1583	500.0	520.7	ug/L	4	15	
Chrysene	3	0.1854	0.1864	500.0	500.2	ug/L	0	15	
Benzo(b)fluoranthene	3	0.0668	0.0669	1000	1001	ug/L	0	15	
Benzo(k)fluoranthene	3	0.3937	0.4123	500.0	521.1	ug/L	4	15	
Benzo(a)pyrene	3	0.2148	0.2204	500.0	510.9	ug/L	2	15	
Dibenz(a,h)anthracene	3	0.0311	0.0321	1000	1017	ug/L	2	15	
Benzo(g,h,i)perylene	3	0.0629	0.0611	1000	964.8	ug/L	-4	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.1039	500.0	540.5	ug/L	8	15	
1-Methylnaphthalene (F)	3	0.0131	0.0117	50000	45300	ug/L	-9	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185381 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: H IDF : 1.0
Seqnum : 296100139032 File : 06900032 Time : 11-MAR-2006 05:22
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S1578

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0138	10000	10640	ug/L	6	15	
Acenaphthylene	1	0.0093	0.0098	20000	21180	ug/L	6	15	
Acenaphthene	1	0.0050	0.0055	10000	10870	ug/L	9	15	
Fluorene	1	0.0629	0.0666	2000	2115	ug/L	6	15	
Phenanthrene	1	0.1797	0.1900	1000	1059	ug/L	6	15	
Anthracene	1	0.4065	0.4512	1000	1112	ug/L	11	15	
Fluoranthene	1	0.0408	0.0432	2000	2108	ug/L	5	15	
Pyrene	1	0.0329	0.0355	1000	1066	ug/L	7	15	
Benzo(a)anthracene	1	0.0901	0.1012	1000	1110	ug/L	11	15	
Chrysene	1	0.1322	0.1441	1000	1083	ug/L	8	15	
Benzo(b)fluoranthene	1	0.1049	0.1146	2000	2153	ug/L	8	15	
Benzo(k)fluoranthene	1	0.0796	0.0892	1000	1105	ug/L	11	15	
Benzo(a)pyrene	1	0.0842	0.0935	1000	1083	ug/L	8	15	
Dibenz(a,h)anthracene	1	0.0205	0.0234	2000	2197	ug/L	10	15	
Benzo(g,h,i)perylene	1	0.0349	0.0382	2000	2156	ug/L	8	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.1058	1000	1118	ug/L	12	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0086	50000	50900	ug/L	2	15	
Acenaphthylene	2	0.0277	0.0297	20000	21330	ug/L	7	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	49740	ug/L	-1	15	
Naphthalene	3	0.0118	0.0114	10000	9772	ug/L	-2	15	
Acenaphthene	3	0.0242	0.0241	10000	10020	ug/L	0	15	
Fluorene	3	0.1330	0.1374	2000	2093	ug/L	5	15	
Phenanthrene	3	0.1408	0.1361	1000	974.3	ug/L	-3	15	
Anthracene	3	0.4129	0.4488	1000	1088	ug/L	9	15	
Fluoranthene	3	0.0409	0.0410	2000	2008	ug/L	0	15	
Pyrene	3	0.1339	0.1243	1000	934.1	ug/L	-7	15	
Benzo(a)anthracene	3	0.1518	0.1569	1000	1034	ug/L	3	15	
Chrysene	3	0.1854	0.1871	1000	1010	ug/L	1	15	
Benzo(b)fluoranthene	3	0.0668	0.0678	2000	2026	ug/L	1	15	
Benzo(k)fluoranthene	3	0.3937	0.4213	1000	1072	ug/L	7	15	
Benzo(a)pyrene	3	0.2148	0.2173	1000	1011	ug/L	1	15	
Dibenz(a,h)anthracene	3	0.0311	0.0327	2000	2060	ug/L	3	15	
Benzo(g,h,i)perylene	3	0.0629	0.0611	2000	1924	ug/L	-4	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.1048	1000	1084	ug/L	8	15	
1-Methylnaphthalene (F)	3	0.0131	0.0120	50000	46670	ug/L	-7	15	

SEQUENCE SUMMARY FOR 185381 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 295454249 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 11-NOV-2005
Analytical Method: EPA 8310 SOP Version: 8310_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	31500001	X	PRIMER - 315			11-NOV-2005 10:49	1.0						
002	31500002	X	PRIMER			11-NOV-2005 11:20	1.0						
003	31500003	X	IB - 315			11-NOV-2005 11:52	1.0						
004	31500004	X	IB			11-NOV-2005 12:24	1.0						
005	31500005	X	IB			11-NOV-2005 12:55	1.0						
006	31500006	ICAL				11-NOV-2005 13:27	1.0					1	
007	31500007	ICAL				11-NOV-2005 13:58	1.0					2	
008	31500008	ICAL				11-NOV-2005 14:30	1.0					3	
009	31500009	ICAL				11-NOV-2005 15:02	1.0					4	
010	31500010	ICAL				11-NOV-2005 15:33	1.0					5	
011	31500011	ICAL				11-NOV-2005 16:05	1.0					6	
012	31500012	ICAL				11-NOV-2005 16:36	1.0					7	
013	31500013	X	IB			11-NOV-2005 17:08	1.0						
014	31500014	X	IB			11-NOV-2005 17:40	1.0						
015	31500015	ICV				11-NOV-2005 18:11	1.0		10			8	250
016	31500016	X	ICV			11-NOV-2005 18:43	1.0					8	
017	31500017	X	IB			11-NOV-2005 19:14	1.0						

Stds used: 1=S1620 2=S1619 3=S1618 4=S1617 5=S1616 6=S1615 7=S1614 8=S1859

SEQUENCE SUMMARY FOR 185381 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296100139 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 10-MAR-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	06900001	X	IB - 069			10-MAR-2006 12:59	1.0						
002	06900002	X,CCV	M			10-MAR-2006 13:30	1.0	1.0	32		10	1	
003	06900003	X	IB			10-MAR-2006 14:06	1.0						
004	06900004	CCV	L			10-MAR-2006 14:37	1.0	1.0			10	1	
005	06900005	X	CCV			10-MAR-2006 15:09	1.0					1	
006	06900006	X	IB			10-MAR-2006 15:40	1.0						
007	06900007	LCS	QC330807	111149	Water	10-MAR-2006 16:12	1.0	0.002			10		
008	06900008	BLANK	QC330806	111149	Water	10-MAR-2006 16:44	1.0	0.002			10		
009	06900009	SAMPLE	185358-001	111149	Water	10-MAR-2006 17:15	1.0	0.001905			10		
010	06900010	SAMPLE	185358-002	111149	Water	10-MAR-2006 17:47	1.0	0.001905			10		
011	06900011	SAMPLE	185358-003	111149	Water	10-MAR-2006 18:18	1.0	0.001887			10		
012	06900012	SAMPLE	185358-004	111149	Water	10-MAR-2006 18:50	1.0	0.001905			10		
013	06900013	MSS	185358-005	111149	Water	10-MAR-2006 19:22	1.0	0.001887	2		10		
014	06900014	SAMPLE	185358-006	111149	Water	10-MAR-2006 19:53	1.0	0.001887			10		
015	06900015	MS	QC330808	111149	Water	10-MAR-2006 20:25	1.0	0.001887			10		
016	06900016	MSD	QC330809	111149	Water	10-MAR-2006 20:56	1.0	0.001887			10		
017	06900017	X	IB			10-MAR-2006 21:28	1.0						
018	06900018	CCV	M			10-MAR-2006 22:00	1.0	1.0			10	2	
019	06900019	X	CCV			10-MAR-2006 22:31	1.0					2	
020	06900020	X	IB			10-MAR-2006 23:03	1.0						
021	06900021	SAMPLE	185381-011	111149	Water	10-MAR-2006 23:34	1.0	0.001887			10		
022	06900022	SAMPLE	185381-012	111149	Water	11-MAR-2006 00:06	1.0	0.001887			10		
023	06900023	SAMPLE	185381-013	111149	Water	11-MAR-2006 00:38	1.0	0.001905			10		
024	06900024	SAMPLE	185381-014	111149	Water	11-MAR-2006 01:09	1.0	0.001923			10		
025	06900025	SAMPLE	185381-019	111149	Water	11-MAR-2006 01:41	1.0	0.001887			10		
026	06900026	SAMPLE	185381-020	111149	Water	11-MAR-2006 02:12	1.0	0.001942			10		
027	06900027	SAMPLE	185385-001	111149	Water	11-MAR-2006 02:44	1.0	0.001905			10		
028	06900028	SAMPLE	185385-002	111149	Water	11-MAR-2006 03:15	1.0	0.001905			10		
029	06900029	SAMPLE	185385-003	111149	Water	11-MAR-2006 03:47	1.0	0.001905			10		
030	06900030	SAMPLE	185385-004	111149	Water	11-MAR-2006 04:18	1.0	0.001905			10		
031	06900031	X	IB			11-MAR-2006 04:50	1.0						

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Stds used: 1=S2256 2=S2255 3=S1578

SEQUENCE SUMMARY FOR 185381 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296100139 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 10-MAR-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	06900032	CCV	H			11-MAR-2006 05:22	1.0	1.0			10	3	
033	06900033	X	CCV			11-MAR-2006 05:53	1.0					3	
034	06900034	X	IB			11-MAR-2006 06:25	1.0						
035	06900035	SAMPLE	185385-005	111149	Water	11-MAR-2006 06:56	1.0	0.001905			10		
036	06900036	SAMPLE	185385-006	111149	Water	11-MAR-2006 07:28	1.0	0.001905			10		
037	06900037	SAMPLE	185385-007	111149	Water	11-MAR-2006 08:00	1.0	0.001905			10		
038	06900038	SAMPLE	185385-008	111149	Water	11-MAR-2006 08:31	1.0	0.001887			10		
039	06900039	X	IB			11-MAR-2006 09:03	1.0						
040	06900040	CCV	M			11-MAR-2006 09:34	1.0	1.0			10	2	
041	06900041	X	CCV			11-MAR-2006 10:06	1.0					2	
042	06900042	X	IB			11-MAR-2006 10:38	1.0						

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Stds used: 1=S2256 2=S2255 3=S1578

REPORTING SUMMARY FOR 185381 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185381-011	Naphthalene	HPLC04	1	03/10/06 23:34
185381-011	Acenaphthylene	HPLC04	1	03/10/06 23:34
185381-011	Acenaphthene	HPLC04	1	03/10/06 23:34
185381-011	Fluorene	HPLC04	1	03/10/06 23:34
185381-011	Phenanthrene	HPLC04	3	03/10/06 23:34
185381-011	Anthracene	HPLC04	3	03/10/06 23:34
185381-011	Fluoranthene	HPLC04	3	03/10/06 23:34
185381-011	Pyrene	HPLC04	3	03/10/06 23:34
185381-011	Benzo(a)anthracene	HPLC04	3	03/10/06 23:34
185381-011	Chrysene	HPLC04	3	03/10/06 23:34
185381-011	Benzo(b)fluoranthene	HPLC04	3	03/10/06 23:34
185381-011	Benzo(k)fluoranthene	HPLC04	3	03/10/06 23:34
185381-011	Benzo(a)pyrene	HPLC04	3	03/10/06 23:34
185381-011	Dibenz(a,h)anthracene	HPLC04	3	03/10/06 23:34
185381-011	Benzo(g,h,i)perylene	HPLC04	3	03/10/06 23:34
185381-011	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/10/06 23:34
185381-011	1-Methylnaphthalene (UV)	HPLC04	1	03/10/06 23:34
185381-011	1-Methylnaphthalene (F)	HPLC04	3	03/10/06 23:34
185381-012	Naphthalene	HPLC04	1	03/11/06 00:06
185381-012	Acenaphthylene	HPLC04	1	03/11/06 00:06
185381-012	Acenaphthene	HPLC04	1	03/11/06 00:06
185381-012	Fluorene	HPLC04	1	03/11/06 00:06
185381-012	Phenanthrene	HPLC04	3	03/11/06 00:06
185381-012	Anthracene	HPLC04	3	03/11/06 00:06
185381-012	Fluoranthene	HPLC04	3	03/11/06 00:06
185381-012	Pyrene	HPLC04	3	03/11/06 00:06
185381-012	Benzo(a)anthracene	HPLC04	3	03/11/06 00:06
185381-012	Chrysene	HPLC04	3	03/11/06 00:06
185381-012	Benzo(b)fluoranthene	HPLC04	3	03/11/06 00:06
185381-012	Benzo(k)fluoranthene	HPLC04	3	03/11/06 00:06
185381-012	Benzo(a)pyrene	HPLC04	3	03/11/06 00:06
185381-012	Dibenz(a,h)anthracene	HPLC04	3	03/11/06 00:06
185381-012	Benzo(g,h,i)perylene	HPLC04	3	03/11/06 00:06
185381-012	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/11/06 00:06
185381-012	1-Methylnaphthalene (UV)	HPLC04	1	03/11/06 00:06
185381-012	1-Methylnaphthalene (F)	HPLC04	3	03/11/06 00:06
185381-013	Naphthalene	HPLC04	1	03/11/06 00:38
185381-013	Acenaphthylene	HPLC04	1	03/11/06 00:38
185381-013	Acenaphthene	HPLC04	1	03/11/06 00:38
185381-013	Fluorene	HPLC04	1	03/11/06 00:38
185381-013	Phenanthrene	HPLC04	3	03/11/06 00:38
185381-013	Anthracene	HPLC04	3	03/11/06 00:38
185381-013	Fluoranthene	HPLC04	3	03/11/06 00:38
185381-013	Pyrene	HPLC04	3	03/11/06 00:38
185381-013	Benzo(a)anthracene	HPLC04	3	03/11/06 00:38
185381-013	Chrysene	HPLC04	3	03/11/06 00:38
185381-013	Benzo(b)fluoranthene	HPLC04	3	03/11/06 00:38
185381-013	Benzo(k)fluoranthene	HPLC04	3	03/11/06 00:38
185381-013	Benzo(a)pyrene	HPLC04	3	03/11/06 00:38
185381-013	Dibenz(a,h)anthracene	HPLC04	3	03/11/06 00:38
185381-013	Benzo(g,h,i)perylene	HPLC04	3	03/11/06 00:38
185381-013	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/11/06 00:38

REPORTING SUMMARY FOR 185381 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185381-013	1-Methylnaphthalene (UV)	HPLC04	1	03/11/06 00:38
185381-013	1-Methylnaphthalene (F)	HPLC04	3	03/11/06 00:38
185381-014	Naphthalene	HPLC04	1	03/11/06 01:09
185381-014	Acenaphthylene	HPLC04	1	03/11/06 01:09
185381-014	Acenaphthene	HPLC04	1	03/11/06 01:09
185381-014	Fluorene	HPLC04	1	03/11/06 01:09
185381-014	Phenanthrene	HPLC04	3	03/11/06 01:09
185381-014	Anthracene	HPLC04	3	03/11/06 01:09
185381-014	Fluoranthene	HPLC04	3	03/11/06 01:09
185381-014	Pyrene	HPLC04	3	03/11/06 01:09
185381-014	Benzo(a)anthracene	HPLC04	3	03/11/06 01:09
185381-014	Chrysene	HPLC04	3	03/11/06 01:09
185381-014	Benzo(b)fluoranthene	HPLC04	3	03/11/06 01:09
185381-014	Benzo(k)fluoranthene	HPLC04	3	03/11/06 01:09
185381-014	Benzo(a)pyrene	HPLC04	3	03/11/06 01:09
185381-014	Dibenz(a,h)anthracene	HPLC04	3	03/11/06 01:09
185381-014	Benzo(g,h,i)perylene	HPLC04	3	03/11/06 01:09
185381-014	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/11/06 01:09
185381-014	1-Methylnaphthalene (UV)	HPLC04	1	03/11/06 01:09
185381-014	1-Methylnaphthalene (F)	HPLC04	3	03/11/06 01:09
185381-019	Naphthalene	HPLC04	1	03/11/06 01:41
185381-019	Acenaphthylene	HPLC04	1	03/11/06 01:41
185381-019	Acenaphthene	HPLC04	1	03/11/06 01:41
185381-019	Fluorene	HPLC04	1	03/11/06 01:41
185381-019	Phenanthrene	HPLC04	3	03/11/06 01:41
185381-019	Anthracene	HPLC04	3	03/11/06 01:41
185381-019	Fluoranthene	HPLC04	3	03/11/06 01:41
185381-019	Pyrene	HPLC04	3	03/11/06 01:41
185381-019	Benzo(a)anthracene	HPLC04	3	03/11/06 01:41
185381-019	Chrysene	HPLC04	3	03/11/06 01:41
185381-019	Benzo(b)fluoranthene	HPLC04	3	03/11/06 01:41
185381-019	Benzo(k)fluoranthene	HPLC04	3	03/11/06 01:41
185381-019	Benzo(a)pyrene	HPLC04	3	03/11/06 01:41
185381-019	Dibenz(a,h)anthracene	HPLC04	3	03/11/06 01:41
185381-019	Benzo(g,h,i)perylene	HPLC04	3	03/11/06 01:41
185381-019	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/11/06 01:41
185381-019	1-Methylnaphthalene (UV)	HPLC04	1	03/11/06 01:41
185381-019	1-Methylnaphthalene (F)	HPLC04	3	03/11/06 01:41
185381-020	Naphthalene	HPLC04	1	03/11/06 02:12
185381-020	Acenaphthylene	HPLC04	1	03/11/06 02:12
185381-020	Acenaphthene	HPLC04	1	03/11/06 02:12
185381-020	Fluorene	HPLC04	1	03/11/06 02:12
185381-020	Phenanthrene	HPLC04	3	03/11/06 02:12
185381-020	Anthracene	HPLC04	3	03/11/06 02:12
185381-020	Fluoranthene	HPLC04	3	03/11/06 02:12
185381-020	Pyrene	HPLC04	3	03/11/06 02:12
185381-020	Benzo(a)anthracene	HPLC04	3	03/11/06 02:12
185381-020	Chrysene	HPLC04	3	03/11/06 02:12
185381-020	Benzo(b)fluoranthene	HPLC04	3	03/11/06 02:12
185381-020	Benzo(k)fluoranthene	HPLC04	3	03/11/06 02:12
185381-020	Benzo(a)pyrene	HPLC04	3	03/11/06 02:12

REPORTING SUMMARY FOR 185381 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185381-020	Dibenz(a,h)anthracene	HPLC04	3	03/11/06 02:12
185381-020	Benzo(g,h,i)perylene	HPLC04	3	03/11/06 02:12
185381-020	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/11/06 02:12
185381-020	1-Methylnaphthalene (UV)	HPLC04	1	03/11/06 02:12
185381-020	1-Methylnaphthalene (F)	HPLC04	3	03/11/06 02:12
QC330806	Naphthalene	HPLC04	1	03/10/06 16:44
QC330806	Acenaphthylene	HPLC04	1	03/10/06 16:44
QC330806	Acenaphthene	HPLC04	1	03/10/06 16:44
QC330806	Fluorene	HPLC04	1	03/10/06 16:44
QC330806	Phenanthrene	HPLC04	3	03/10/06 16:44
QC330806	Anthracene	HPLC04	3	03/10/06 16:44
QC330806	Fluoranthene	HPLC04	3	03/10/06 16:44
QC330806	Pyrene	HPLC04	3	03/10/06 16:44
QC330806	Benzo(a)anthracene	HPLC04	3	03/10/06 16:44
QC330806	Chrysene	HPLC04	3	03/10/06 16:44
QC330806	Benzo(b)fluoranthene	HPLC04	3	03/10/06 16:44
QC330806	Benzo(k)fluoranthene	HPLC04	3	03/10/06 16:44
QC330806	Benzo(a)pyrene	HPLC04	3	03/10/06 16:44
QC330806	Dibenz(a,h)anthracene	HPLC04	3	03/10/06 16:44
QC330806	Benzo(g,h,i)perylene	HPLC04	3	03/10/06 16:44
QC330806	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/10/06 16:44
QC330806	1-Methylnaphthalene (UV)	HPLC04	1	03/10/06 16:44
QC330806	1-Methylnaphthalene (F)	HPLC04	3	03/10/06 16:44
QC330807	Naphthalene	HPLC04	1	03/10/06 16:12
QC330807	Fluorene	HPLC04	1	03/10/06 16:12
QC330807	Pyrene	HPLC04	3	03/10/06 16:12
QC330807	Benzo(a)pyrene	HPLC04	3	03/10/06 16:12
QC330807	1-Methylnaphthalene (UV)	HPLC04	1	03/10/06 16:12
QC330807	1-Methylnaphthalene (F)	HPLC04	3	03/10/06 16:12
QC330808	Naphthalene	HPLC04	1	03/10/06 20:25
QC330808	Fluorene	HPLC04	1	03/10/06 20:25
QC330808	Pyrene	HPLC04	3	03/10/06 20:25
QC330808	Benzo(a)pyrene	HPLC04	3	03/10/06 20:25
QC330808	1-Methylnaphthalene (UV)	HPLC04	1	03/10/06 20:25
QC330808	1-Methylnaphthalene (F)	HPLC04	3	03/10/06 20:25
QC330809	Naphthalene	HPLC04	1	03/10/06 20:56
QC330809	Fluorene	HPLC04	1	03/10/06 20:56
QC330809	Pyrene	HPLC04	3	03/10/06 20:56
QC330809	Benzo(a)pyrene	HPLC04	3	03/10/06 20:56
QC330809	1-Methylnaphthalene (UV)	HPLC04	1	03/10/06 20:56
QC330809	1-Methylnaphthalene (F)	HPLC04	3	03/10/06 20:56

Curtis & Tompkins Laboratories **Sample Preparation Summary** **10-MAR-2006 12:46**

Batch Number : 111149
Date Extracted: 09-MAR-2006
Extracted by : Kristine Harrison
Prep Method : 3520C

Analysis : 8310
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2841E
Spike #2 ID : S2884C
Spike #3 ID :
SOP Version : 8310w_rv6

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185358-001			Acton Mickelson Environmental	Water	1050	mL	2	0.001905	1	6	.1	0		8310		
185358-002			Acton Mickelson Environmental	Water	1050	mL	2	0.001905	1	6	.1	0		8310		
185358-003			Acton Mickelson Environmental	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185358-004			Acton Mickelson Environmental	Water	1050	mL	2	0.001905	1	6	.1	0		8310		
185358-005			Acton Mickelson Environmental	Water	1060	mL	2	0.001887	1	6	.1	0		8310		mss
185358-006			Acton Mickelson Environmental	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185381-011			Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185381-012			Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185381-013			Treadwell & Rollo	Water	1050	mL	2	0.001905	1	6	.1	0		8310		
185381-014			Treadwell & Rollo	Water	1040	mL	2	0.001923	1	6	.1	0		8310		
185381-019			Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185381-020			Treadwell & Rollo	Water	1030	mL	2	0.001942	1	6	.1	0		8310		
185385-001			Acton Mickelson Environmental	Water	1050	mL	2	0.001905	1	6	.1	0		8310		
185385-002			Acton Mickelson Environmental	Water	1050	mL	2	0.001905	1	6	.1	0		8310		
185385-003			Acton Mickelson Environmental	Water	1050	mL	2	0.001905	1	6	.1	0		8310		
185385-004			Acton Mickelson Environmental	Water	1050	mL	2	0.001905	1	6	.1	0		8310		
185385-005			Acton Mickelson Environmental	Water	1050	mL	2	0.001905	1	6	.1	0		8310		
185385-006			Acton Mickelson Environmental	Water	1050	mL	2	0.001905	1	6	.1	0		8310		
185385-007			Acton Mickelson Environmental	Water	1050	mL	2	0.001905	1	6	.1	0		8310		
185385-008			Acton Mickelson Environmental	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
QC330806	BLANK			Water	1000	mL	2	0.002000	1		.1	0		8310		
QC330807	LCS			Water	1000	mL	2	0.002000	1		.1	1		8310		
QC330808	MS	of 185358-005		Water	1060	mL	2	0.001887	1	6	.1	1		8310		
QC330809	MSD	of 185358-005		Water	1060	mL	2	0.001887	1	6	.1	1		8310		

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Prep Chemist: _____ Reviewed By: _____ Date: 3/10/06

Relinquished By: _____ Received By: _____ Date: 10MAR2006

Curtis & Tompkins, Ltd

8310 WATER PREP LOG

BK2190

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LIMS Batch No: 111149
LIMS Analysis: 8310
Extracted by: KMH 3/9/06 JOM KMH
Date Extracted: 9 Mar 06

Extraction Method:
- ☐ EPA 3510c sep. funnel
- ☒ EPA 3520c cont. L/L
- ☐ _____

Cleanup Method (if needed):
- ☐ EPA 3640a GPC
- ☐ EPA 3630c Silica Gel

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185358-001 J	KMH 3/9/06 ~~1060~~ 1050	6	2.0		
02 H	↓				
03 J	KMH 3/9/06 ~~1050~~ 1060				
04 H	1050				
05 Z	1060				MSS
06 K					
185381-011 I					
12 I					
13 I	1050				☆
14 I	1040				
19 M	1060				
20 M	1030				
185385-001 H	1050				
02 H					
03 H					
04 H					
05 H					
06 H					
07 H					
08 H	1060				
MB QC330806	1000	NA			
LCS 7					
MS 8	1060	6			185358-005AA
MSD 9	1060	6			AB

~~BHD~~ 3/10/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.1 mL of surrogate solution was added to all samples	S2841E/AD	KMH 3/9/06 JOM 3/9/06
1.0 mL of matrix spiking solution was added to all spikes	S2884/C	↓
☒ Samples continuously extracted with about 450 mL of CH_2Cl_2	EM46014	↓
Extraction Start Time:	1235	
Extraction End Time:	0645	DLM 3/10/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	
Extracts filtered through baked, CH2Cl2-rinsed ~~powdered~~ granular Na2SO4	EM 45118532	
Exchanged 2x with Acetonitrile	EM 45216	
Concentrated: ☒ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Silica Gel	NA	
Extracts filtered with 0.45 um PTFE syringe filter	Whatman LZ17	

Jackie Nee 3/9/06
Extraction Chemist / Date

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Contined from Page —
Continued on Page —

Reviewed by 3/10/06
Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8310 Water 3520C
As of 03/31/06

Analyte	Units	HPLC02 1	HPLC02 2	HPLC02 3	HPLC04 1	HPLC04 2	HPLC04 3
Naphthalene	ug/L	0.16		0.069	0.072		0.074
Acenaphthylene	ug/L	0.37	0.29		0.095	0.099	
2-Methylnaphthalene	ug/L				0.072		0.10
Acenaphthene	ug/L	0.36		0.098	0.064		0.089
Fluorene	ug/L	0.051		0.054	0.015		0.015
Phenanthrene	ug/L	0.030		0.0086	0.0080		0.0089
Anthracene	ug/L	0.021		0.0077	0.0075		0.0082
Fluoranthene	ug/L	0.13		0.011	0.035		0.016
Pyrene	ug/L	0.066		0.0048	0.011		0.0075
Benzo(a)anthracene	ug/L	0.044		0.0046	0.0079		0.0053
Chrysene	ug/L	0.036		0.0059	0.0075		0.0067
Benzo(b)fluoranthene	ug/L	0.032		0.0081	0.015		0.0095
Benzo(k)fluoranthene	ug/L	0.037		0.0044	0.014		0.0052
Benzo(a)pyrene	ug/L	0.055		0.0045	0.013		0.0078
Dibenz(a,h)anthracene	ug/L	0.12		0.026	0.020		0.0088
Benzo(g,h,i)perylene	ug/L	0.066		0.014	0.023		0.010
Indeno(1,2,3-cd)pyrene	ug/L	0.065		0.011	0.015		0.0064
1-Methylnaphthalene (UV)	ug/L	1.2	1.9		5.0	5.0	
1-Methylnaphthalene (F)	ug/L			0.72			5.6

METALS

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1047MW101	Batch#:	111241
Lab ID:	185381-001	Sampled:	03/07/06
Matrix:	Filtrate	Received:	03/08/06
Units:	ug/L	Prepared:	03/13/06
Diln Fac:	1.000	Analyzed:	03/22/06

Analyte	Result	RL
Aluminum	ND	100
Antimony	ND	1.0
Arsenic	ND	5.0
Cadmium	ND	1.0
Calcium	4,300	500
Chromium	ND	10
Copper	2.3	1.0
Iron	ND	100
Lead	ND	3.0
Magnesium	4,500	500
Manganese	ND	10
Nickel	ND	20
Potassium	1,300	500
Sodium	3,100	500
Vanadium	ND	10
Zinc	ND	20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DUP0307062A	Batch#:	111241
Lab ID:	185381-002	Sampled:	03/07/06
Matrix:	Filtrate	Received:	03/08/06
Units:	ug/L	Prepared:	03/13/06
Diln Fac:	1.000	Analyzed:	03/22/06

Analyte	Result	RL
Aluminum	ND	100
Antimony	ND	1.0
Arsenic	ND	5.0
Cadmium	ND	1.0
Calcium	4,400	500
Chromium	ND	10
Copper	2.5	1.0
Iron	ND	100
Lead	ND	3.0
Magnesium	4,700	500
Manganese	ND	10
Nickel	ND	20
Potassium	1,300	500
Sodium	3,200	500
Vanadium	ND	10
Zinc	ND	20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065PZ1B	Batch#:	111241
Lab ID:	185381-003	Sampled:	03/07/06
Matrix:	Filtrate	Received:	03/08/06
Units:	ug/L	Prepared:	03/13/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/22/06
Antimony	ND	1.0	1.000	03/22/06
Arsenic	ND	5.0	1.000	03/22/06
Cadmium	ND	1.0	1.000	03/22/06
Calcium	48,000	5,000	10.00	03/23/06
Chromium	ND	10	1.000	03/22/06
Copper	ND	1.0	1.000	03/22/06
Iron	410	100	1.000	03/22/06
Lead	ND	3.0	1.000	03/22/06
Magnesium	75,000	5,000	10.00	03/23/06
Manganese	86	10	1.000	03/22/06
Nickel	ND	20	1.000	03/22/06
Potassium	38,000	5,000	10.00	03/23/06
Sodium	91,000	5,000	10.00	03/23/06
Vanadium	ND	10	1.000	03/22/06
Zinc	ND	20	1.000	03/22/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065PZ2B	Batch#:	111241
Lab ID:	185381-004	Sampled:	03/07/06
Matrix:	Filtrate	Received:	03/08/06
Units:	ug/L	Prepared:	03/13/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/22/06
Antimony	ND	1.0	1.000	03/22/06
Arsenic	ND	5.0	1.000	03/22/06
Cadmium	ND	1.0	1.000	03/22/06
Calcium	22,000	5,000	10.00	03/23/06
Chromium	13	10	1.000	03/22/06
Copper	ND	1.0	1.000	03/22/06
Iron	140	100	1.000	03/22/06
Lead	ND	3.0	1.000	03/22/06
Magnesium	35,000	5,000	10.00	03/23/06
Manganese	ND	10	1.000	03/22/06
Nickel	ND	20	1.000	03/22/06
Potassium	1,000	500	1.000	03/22/06
Sodium	47,000	5,000	10.00	03/23/06
Vanadium	18	10	1.000	03/22/06
Zinc	ND	20	1.000	03/22/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065PZ5AR	Batch#:	111241
Lab ID:	185381-005	Sampled:	03/07/06
Matrix:	Filtrate	Received:	03/08/06
Units:	ug/L	Prepared:	03/13/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/22/06
Antimony	ND	1.0	1.000	03/22/06
Arsenic	24	5.0	1.000	03/22/06
Cadmium	ND	1.0	1.000	03/22/06
Calcium	70,000	10,000	20.00	03/23/06
Chromium	ND	10	1.000	03/22/06
Copper	ND	1.0	1.000	03/22/06
Iron	23,000	2,000	20.00	03/23/06
Lead	ND	3.0	1.000	03/22/06
Magnesium	77,000	10,000	20.00	03/23/06
Manganese	2,000	200	20.00	03/23/06
Nickel	ND	20	1.000	03/22/06
Potassium	5,800	500	1.000	03/22/06
Sodium	83,000	10,000	20.00	03/23/06
Vanadium	ND	10	1.000	03/22/06
Zinc	ND	20	1.000	03/22/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DUP0307062B	Batch#:	111241
Lab ID:	185381-006	Sampled:	03/07/06
Matrix:	Filtrate	Received:	03/08/06
Units:	ug/L	Prepared:	03/13/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/22/06
Antimony	ND	1.0	1.000	03/22/06
Arsenic	21	5.0	1.000	03/22/06
Cadmium	ND	1.0	1.000	03/22/06
Calcium	69,000	10,000	20.00	03/23/06
Chromium	ND	10	1.000	03/22/06
Copper	ND	1.0	1.000	03/22/06
Iron	19,000	2,000	20.00	03/23/06
Lead	ND	3.0	1.000	03/22/06
Magnesium	81,000	10,000	20.00	03/23/06
Manganese	2,000	200	20.00	03/23/06
Nickel	ND	20	1.000	03/22/06
Potassium	6,100	500	1.000	03/22/06
Sodium	86,000	10,000	20.00	03/23/06
Vanadium	ND	10	1.000	03/22/06
Zinc	ND	20	1.000	03/22/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065MW11B	Batch#:	111241
Lab ID:	185381-007	Sampled:	03/07/06
Matrix:	Filtrate	Received:	03/08/06
Units:	ug/L	Prepared:	03/13/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/22/06
Antimony	ND	1.0	1.000	03/22/06
Arsenic	ND	5.0	1.000	03/22/06
Cadmium	ND	1.0	1.000	03/22/06
Calcium	43,000	5,000	10.00	03/23/06
Chromium	38	10	1.000	03/22/06
Copper	2.5	1.0	1.000	03/22/06
Iron	200	100	1.000	03/22/06
Lead	ND	3.0	1.000	03/22/06
Magnesium	47,000	5,000	10.00	03/23/06
Manganese	ND	10	1.000	03/22/06
Nickel	ND	20	1.000	03/22/06
Potassium	700	500	1.000	03/22/06
Sodium	54,000	5,000	10.00	03/23/06
Vanadium	18	10	1.000	03/22/06
Zinc	ND	20	1.000	03/22/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	LF4GW103	Batch#:	111241
Lab ID:	185381-008	Sampled:	03/07/06
Matrix:	Filtrate	Received:	03/08/06
Units:	ug/L	Prepared:	03/13/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/22/06
Arsenic	ND	5.0	1.000	03/22/06
Cadmium	ND	1.0	1.000	03/22/06
Calcium	140,000	20,000	40.00	03/23/06
Chromium	ND	10	1.000	03/22/06
Copper	2.3	1.0	1.000	03/22/06
Iron	510	100	1.000	03/22/06
Lead	ND	3.0	1.000	03/22/06
Magnesium	390,000	20,000	40.00	03/23/06
Manganese	85	10	1.000	03/22/06
Nickel	150	20	1.000	03/22/06
Potassium	2,000	500	1.000	03/22/06
Sodium	160,000	20,000	40.00	03/23/06
Zinc	ND	20	1.000	03/22/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DUP0307063A	Batch#:	111241
Lab ID:	185381-009	Sampled:	03/07/06
Matrix:	Filtrate	Received:	03/08/06
Units:	ug/L	Prepared:	03/13/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/22/06
Arsenic	ND	5.0	1.000	03/22/06
Cadmium	ND	1.0	1.000	03/22/06
Calcium	140,000	20,000	40.00	03/23/06
Chromium	ND	10	1.000	03/22/06
Copper	2.1	1.0	1.000	03/22/06
Iron	470	100	1.000	03/22/06
Lead	ND	3.0	1.000	03/22/06
Magnesium	400,000	20,000	40.00	03/23/06
Manganese	80	10	1.000	03/22/06
Nickel	150	20	1.000	03/22/06
Potassium	1,900	500	1.000	03/22/06
Sodium	160,000	20,000	40.00	03/23/06
Zinc	ND	20	1.000	03/22/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	LF4GW104	Batch#:	111241
Lab ID:	185381-010	Sampled:	03/07/06
Matrix:	Filtrate	Received:	03/08/06
Units:	ug/L	Prepared:	03/13/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/22/06
Arsenic	ND	5.0	1.000	03/22/06
Cadmium	ND	1.0	1.000	03/22/06
Calcium	83,000	10,000	20.00	03/23/06
Chromium	ND	10	1.000	03/22/06
Copper	1.2	1.0	1.000	03/22/06
Iron	260	100	1.000	03/22/06
Lead	ND	3.0	1.000	03/22/06
Magnesium	210,000	10,000	20.00	03/23/06
Manganese	64	10	1.000	03/22/06
Nickel	22	20	1.000	03/22/06
Potassium	1,700	500	1.000	03/22/06
Sodium	87,000	10,000	20.00	03/23/06
Zinc	ND	20	1.000	03/22/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	LF5GW104	Sampled:	03/07/06
Lab ID:	185381-011	Received:	03/08/06
Matrix:	Filtrate	Prepared:	03/14/06
Units:	ug/L	Analyzed:	03/23/06
Batch#:	111276		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Barium	110	10	1.000
Beryllium	ND	2.0	1.000
Cadmium	ND	1.0	1.000
Calcium	31,000	5,000	10.00
Chromium	36	10	1.000
Cobalt	ND	10	1.000
Copper	ND	1.0	1.000
Iron	160	100	1.000
Lead	ND	3.0	1.000
Magnesium	120,000	5,000	10.00
Manganese	ND	10	1.000
Nickel	ND	20	1.000
Potassium	930	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	130,000	5,000	10.00
Thallium	ND	1.0	1.000
Vanadium	ND	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DUP0307063B	Sampled:	03/07/06
Lab ID:	185381-012	Received:	03/08/06
Matrix:	Filtrate	Prepared:	03/14/06
Units:	ug/L	Analyzed:	03/23/06
Batch#:	111276		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Barium	110	10	1.000
Beryllium	ND	2.0	1.000
Cadmium	ND	1.0	1.000
Calcium	30,000	5,000	10.00
Chromium	35	10	1.000
Cobalt	ND	10	1.000
Copper	ND	1.0	1.000
Iron	150	100	1.000
Lead	ND	3.0	1.000
Magnesium	110,000	5,000	10.00
Manganese	ND	10	1.000
Nickel	ND	20	1.000
Potassium	930	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	130,000	5,000	10.00
Thallium	ND	1.0	1.000
Vanadium	ND	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1349MW102	Sampled:	03/07/06
Lab ID:	185381-013	Received:	03/08/06
Matrix:	Filtrate	Prepared:	03/14/06
Units:	ug/L	Analyzed:	03/23/06
Batch#:	111276		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Barium	49	10	1.000
Beryllium	ND	2.0	1.000
Cadmium	ND	1.0	1.000
Calcium	42,000	5,000	10.00
Chromium	ND	10	1.000
Cobalt	ND	10	1.000
Copper	ND	1.0	1.000
Iron	190	100	1.000
Lead	ND	3.0	1.000
Magnesium	98,000	5,000	10.00
Manganese	140	10	1.000
Nickel	ND	20	1.000
Potassium	2,700	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	190,000	5,000	10.00
Thallium	ND	1.0	1.000
Vanadium	ND	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DUP0307063C	Sampled:	03/07/06
Lab ID:	185381-014	Received:	03/08/06
Matrix:	Filtrate	Prepared:	03/14/06
Units:	ug/L	Analyzed:	03/23/06
Batch#:	111276		

Analyte	Result	RL	Diln Fac
Aluminum	260	200	2.000
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Barium	52	10	1.000
Beryllium	ND	2.0	1.000
Cadmium	ND	1.0	1.000
Calcium	41,000	5,000	10.00
Chromium	ND	10	1.000
Cobalt	ND	10	1.000
Copper	1.8	1.0	1.000
Iron	530	100	1.000
Lead	ND	3.0	1.000
Magnesium	96,000	5,000	10.00
Manganese	150	10	1.000
Nickel	ND	20	1.000
Potassium	2,800	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	180,000	5,000	10.00
Thallium	ND	1.0	1.000
Vanadium	ND	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	610GW101	Batch#:	111241
Lab ID:	185381-015	Sampled:	03/07/06
Matrix:	Filtrate	Received:	03/08/06
Units:	ug/L	Prepared:	03/13/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/22/06
Arsenic	ND	5.0	1.000	03/22/06
Cadmium	ND	1.0	1.000	03/22/06
Calcium	48,000	5,000	10.00	03/23/06
Chromium	ND	10	1.000	03/22/06
Copper	ND	1.0	1.000	03/22/06
Iron	4,000	100	1.000	03/22/06
Lead	ND	3.0	1.000	03/22/06
Magnesium	41,000	5,000	10.00	03/23/06
Manganese	320	100	10.00	03/23/06
Nickel	ND	20	1.000	03/22/06
Potassium	5,500	500	1.000	03/22/06
Sodium	65,000	5,000	10.00	03/23/06
Zinc	ND	20	1.000	03/22/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	610GW102	Batch#:	111241
Lab ID:	185381-016	Sampled:	03/07/06
Matrix:	Filtrate	Received:	03/08/06
Units:	ug/L	Prepared:	03/13/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/22/06
Arsenic	5.9	5.0	1.000	03/22/06
Cadmium	ND	1.0	1.000	03/22/06
Calcium	66,000	10,000	20.00	03/23/06
Chromium	ND	10	1.000	03/22/06
Copper	ND	1.0	1.000	03/22/06
Iron	1,800	100	1.000	03/22/06
Lead	ND	3.0	1.000	03/22/06
Magnesium	36,000	10,000	20.00	03/23/06
Manganese	2,800	200	20.00	03/23/06
Nickel	ND	20	1.000	03/22/06
Potassium	4,700	500	1.000	03/22/06
Sodium	83,000	10,000	20.00	03/23/06
Zinc	30	20	1.000	03/22/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	610GW103	Batch#:	111241
Lab ID:	185381-017	Sampled:	03/07/06
Matrix:	Filtrate	Received:	03/08/06
Units:	ug/L	Prepared:	03/13/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/22/06
Arsenic	5.4	5.0	1.000	03/22/06
Cadmium	ND	1.0	1.000	03/22/06
Calcium	66,000	5,000	10.00	03/23/06
Chromium	ND	10	1.000	03/22/06
Copper	1.5	1.0	1.000	03/22/06
Iron	580	100	1.000	03/22/06
Lead	ND	3.0	1.000	03/22/06
Magnesium	46,000	5,000	10.00	03/23/06
Manganese	810	100	10.00	03/23/06
Nickel	ND	20	1.000	03/22/06
Potassium	8,500	500	1.000	03/22/06
Sodium	89,000	5,000	10.00	03/23/06
Zinc	ND	20	1.000	03/22/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DUP0307061A	Batch#:	111241
Lab ID:	185381-018	Sampled:	03/07/06
Matrix:	Filtrate	Received:	03/08/06
Units:	ug/L	Prepared:	03/13/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/22/06
Arsenic	5.7	5.0	1.000	03/22/06
Cadmium	ND	1.0	1.000	03/22/06
Calcium	66,000	5,000	10.00	03/23/06
Chromium	ND	10	1.000	03/22/06
Copper	1.3	1.0	1.000	03/22/06
Iron	670	100	1.000	03/22/06
Lead	ND	3.0	1.000	03/22/06
Magnesium	45,000	5,000	10.00	03/23/06
Manganese	870	100	10.00	03/23/06
Nickel	ND	20	1.000	03/22/06
Potassium	8,400	500	1.000	03/22/06
Sodium	99,000	5,000	10.00	03/23/06
Zinc	ND	20	1.000	03/22/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	600GW108	Batch#:	111241
Lab ID:	185381-019	Sampled:	03/07/06
Matrix:	Filtrate	Received:	03/08/06
Units:	ug/L	Prepared:	03/13/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/22/06
Arsenic	ND	5.0	1.000	03/22/06
Cadmium	ND	1.0	1.000	03/22/06
Calcium	40,000	5,000	10.00	03/23/06
Chromium	ND	10	1.000	03/22/06
Copper	3.1	1.0	1.000	03/22/06
Iron	160	100	1.000	03/22/06
Lead	ND	3.0	1.000	03/22/06
Magnesium	41,000	5,000	10.00	03/23/06
Manganese	20	10	1.000	03/22/06
Nickel	ND	20	1.000	03/22/06
Potassium	3,800	500	1.000	03/22/06
Sodium	70,000	5,000	10.00	03/23/06
Zinc	ND	20	1.000	03/22/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DUP0307061B	Batch#:	111241
Lab ID:	185381-020	Sampled:	03/07/06
Matrix:	Filtrate	Received:	03/08/06
Units:	ug/L	Prepared:	03/13/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/22/06
Arsenic	ND	5.0	1.000	03/22/06
Cadmium	ND	1.0	1.000	03/22/06
Calcium	40,000	5,000	10.00	03/23/06
Chromium	ND	10	1.000	03/22/06
Copper	1.5	1.0	1.000	03/22/06
Iron	150	100	1.000	03/22/06
Lead	ND	3.0	1.000	03/22/06
Magnesium	40,000	5,000	10.00	03/23/06
Manganese	15	10	1.000	03/22/06
Nickel	ND	20	1.000	03/22/06
Potassium	3,700	500	1.000	03/22/06
Sodium	68,000	5,000	10.00	03/23/06
Zinc	ND	20	1.000	03/22/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved			
Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331212	Batch#:	111241
Matrix:	Filtrate	Prepared:	03/13/06
Units:	ug/L	Analyzed:	03/22/06

Analyte	Result	RL
Aluminum	ND	100
Antimony	ND	1.0
Arsenic	ND	5.0
Cadmium	ND	1.0
Calcium	ND	500
Chromium	ND	10
Copper	ND	1.0
Iron	ND	100
Lead	ND	3.0
Magnesium	ND	500
Manganese	ND	10
Nickel	ND	20
Potassium	ND	500
Sodium	ND	500
Vanadium	ND	10
Zinc	ND	20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331373	Batch#:	111276
Matrix:	Filtrate	Prepared:	03/14/06
Units:	ug/L	Analyzed:	03/23/06

Analyte	Result	RL
Aluminum	ND	100
Antimony	ND	1.0
Arsenic	ND	5.0
Barium	ND	10
Beryllium	ND	2.0
Cadmium	ND	1.0
Calcium	ND	500
Chromium	ND	10
Cobalt	ND	10
Copper	ND	1.0
Iron	ND	100
Lead	ND	3.0
Magnesium	ND	500
Manganese	ND	10
Nickel	ND	20
Potassium	ND	500
Selenium	ND	5.0
Silver	ND	1.0
Sodium	ND	500
Thallium	ND	1.0
Vanadium	ND	10
Zinc	ND	20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Matrix:	Filtrate	Batch#:	111241
Units:	ug/L	Prepared:	03/13/06
Diln Fac:	1.000	Analyzed:	03/22/06

Type: BS Lab ID: QC331213

Analyte	Spiked	Result	%REC	Limits
Aluminum	100.0	109.8	110	80-120
Antimony	100.0	104.7	105	80-120
Arsenic	100.0	102.2	102	80-120
Cadmium	100.0	95.47	95	80-120
Calcium	10,000	10,530	105	80-120
Chromium	100.0	106.9	107	80-120
Copper	100.0	105.8	106	80-120
Iron	10,000	10,670	107	80-120
Lead	100.0	102.7	103	80-120
Magnesium	10,000	10,930	109	80-120
Manganese	100.0	103.1	103	80-120
Nickel	100.0	105.6	106	80-120
Potassium	10,000	11,000	110	80-120
Sodium	10,000	10,840	108	80-120
Vanadium	100.0	107.2	107	80-120
Zinc	100.0	93.28	93	80-120

Type: BSD Lab ID: QC331214

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	100.0	116.6	117	80-120	6	20
Antimony	100.0	102.9	103	80-120	2	20
Arsenic	100.0	100.9	101	80-120	1	20
Cadmium	100.0	94.95	95	80-120	1	20
Calcium	10,000	10,400	104	80-120	1	20
Chromium	100.0	105.6	106	80-120	1	20
Copper	100.0	104.9	105	80-120	1	20
Iron	10,000	10,460	105	80-120	2	20
Lead	100.0	101.9	102	80-120	1	20
Magnesium	10,000	10,940	109	80-120	0	20
Manganese	100.0	100.7	101	80-120	2	20
Nickel	100.0	103.8	104	80-120	2	20
Potassium	10,000	10,690	107	80-120	3	20
Sodium	10,000	10,840	108	80-120	0	20
Vanadium	100.0	105.7	106	80-120	1	20
Zinc	100.0	92.36	92	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Matrix:	Filtrate	Batch#:	111276
Units:	ug/L	Prepared:	03/14/06
Diln Fac:	1.000	Analyzed:	03/23/06

Type: BS Lab ID: QC331374

Analyte	Spiked	Result	%REC	Limits
Aluminum	100.0	107.5	108	80-120
Antimony	100.0	102.2	102	80-120
Arsenic	100.0	101.0	101	80-120
Barium	100.0	97.87	98	80-120
Beryllium	100.0	101.1	101	80-120
Cadmium	100.0	100.6	101	80-120
Calcium	10,000	10,090	101	80-120
Chromium	100.0	101.8	102	80-120
Cobalt	100.0	101.4	101	80-120
Copper	100.0	103.9	104	80-120
Iron	10,000	10,520	105	80-120
Lead	100.0	105.6	106	80-120
Magnesium	10,000	10,360	104	80-120
Manganese	100.0	101.9	102	80-120
Nickel	100.0	103.1	103	80-120
Potassium	10,000	10,320	103	80-120
Selenium	100.0	93.84	94	80-120
Silver	100.0	103.1	103	80-120
Sodium	10,000	10,300	103	80-120
Thallium	100.0	98.77	99	80-120
Vanadium	100.0	98.53	99	80-120
Zinc	100.0	98.57	99	80-120

Type: BSD Lab ID: QC331375

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	100.0	101.7	102	80-120	6	20
Antimony	100.0	100.4	100	80-120	2	20
Arsenic	100.0	101.1	101	80-120	0	20
Barium	100.0	96.21	96	80-120	2	20
Beryllium	100.0	101.7	102	80-120	1	20
Cadmium	100.0	99.27	99	80-120	1	20
Calcium	10,000	10,160	102	80-120	1	20
Chromium	100.0	105.0	105	80-120	3	20
Cobalt	100.0	100.5	101	80-120	1	20
Copper	100.0	102.0	102	80-120	2	20
Iron	10,000	10,450	105	80-120	1	20
Lead	100.0	104.7	105	80-120	1	20
Magnesium	10,000	10,220	102	80-120	1	20
Manganese	100.0	101.7	102	80-120	0	20
Nickel	100.0	102.9	103	80-120	0	20
Potassium	10,000	10,150	102	80-120	2	20
Selenium	100.0	94.16	94	80-120	0	20
Silver	100.0	102.4	102	80-120	1	20
Sodium	10,000	10,060	101	80-120	2	20
Thallium	100.0	98.03	98	80-120	1	20
Vanadium	100.0	102.1	102	80-120	4	20
Zinc	100.0	96.48	96	80-120	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1047MW101	Batch#:	111241
MSS Lab ID:	185381-001	Sampled:	03/07/06
Matrix:	Filtrate	Received:	03/08/06
Units:	ug/L	Prepared:	03/13/06
Diln Fac:	1.000	Analyzed:	03/22/06

Type: MS Lab ID: QC331215

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aluminum	10.64	100.0	115.5	105	75-125
Antimony	0.7666	100.0	104.0	103	75-125
Arsenic	0.8937	100.0	99.99	99	75-125
Cadmium	<0.1409	100.0	93.57	94	75-125
Calcium	4,311	10,000	15,060	107	75-125
Chromium	0.6050	100.0	105.1	104	75-125
Copper	2.303	100.0	105.1	103	75-125
Iron	44.91	10,000	10,360	103	75-125
Lead	<0.2399	100.0	102.2	102	75-125
Magnesium	4,451	10,000	15,050	106	75-125
Manganese	6.514	100.0	106.5	100	75-125
Nickel	1.932	100.0	105.2	103	75-125
Potassium	1,281	10,000	12,040	108	75-125
Sodium	3,090	10,000	13,810	107	75-125
Vanadium	4.018	100.0	108.8	105	75-125
Zinc	3.974	100.0	95.01	91	75-125

Type: MSD Lab ID: QC331216

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	100.0	138.8	128 *	75-125	18	20
Antimony	100.0	105.2	104	75-125	1	20
Arsenic	100.0	100.1	99	75-125	0	20
Cadmium	100.0	93.84	94	75-125	0	20
Calcium	10,000	14,920	106	75-125	1	20
Chromium	100.0	104.5	104	75-125	1	20
Copper	100.0	105.4	103	75-125	0	20
Iron	10,000	10,500	105	75-125	1	20
Lead	100.0	100.9	101	75-125	1	20
Magnesium	10,000	15,270	108	75-125	1	20
Manganese	100.0	106.4	100	75-125	0	20
Nickel	100.0	105.4	103	75-125	0	20
Potassium	10,000	12,080	108	75-125	0	20
Sodium	10,000	13,780	107	75-125	0	20
Vanadium	100.0	109.4	105	75-125	1	20
Zinc	100.0	94.84	91	75-125	0	20

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	231GW10	Sampled:	03/09/06
MSS Lab ID:	185457-009	Received:	03/10/06
Matrix:	Filtrate	Prepared:	03/14/06
Units:	ug/L	Analyzed:	03/23/06
Batch#:	111276		

Type: MS Lab ID: QC331376

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln Fac
Aluminum	3.736	100.0	98.23	94	75-125	1.000
Antimony	0.1934	100.0	102.4	102	75-125	1.000
Arsenic	8.917	100.0	107.0	98	75-125	1.000
Barium	150.9	100.0	234.2	83	75-125	10.00
Beryllium	<0.05514	100.0	102.3	102	75-125	1.000
Cadmium	<0.1409	100.0	90.83	91	75-125	1.000
Calcium	58,100	10,000	66,050 >LR	80 NM	75-125	1.000
Chromium	0.6640	100.0	103.7	103	75-125	1.000
Cobalt	0.5719	100.0	98.47	98	75-125	1.000
Copper	0.3913	100.0	96.96	97	75-125	1.000
Iron	12,910	10,000	20,840	79	75-125	10.00
Lead	<0.2399	100.0	105.8	106	75-125	1.000
Magnesium	65,690	10,000	71,080 >LR	54 NM	75-125	1.000
Manganese	1,062	100.0	1,195 >LR	133 NM	75-125	1.000
Nickel	1.872	100.0	99.32	97	75-125	1.000
Potassium	4,368	10,000	14,430	101	75-125	1.000
Selenium	0.4274	100.0	85.44	85	75-125	1.000
Silver	<0.04084	100.0	94.65	95	75-125	1.000
Sodium	119,300	10,000	118,900 >LR	-4 NM	75-125	1.000
Thallium	<0.07277	100.0	98.31	98	75-125	1.000
Vanadium	0.8397	100.0	104.2	103	75-125	1.000
Zinc	1.237	100.0	93.14	92	75-125	1.000

NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	231GW10	Sampled:	03/09/06
MSS Lab ID:	185457-009	Received:	03/10/06
Matrix:	Filtrate	Prepared:	03/14/06
Units:	ug/L	Analyzed:	03/23/06
Batch#:	111276		

Type: MSD Lab ID: QC331377

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
Aluminum	100.0	95.94	92	75-125	2	20	1.000
Antimony	100.0	101.1	101	75-125	1	20	1.000
Arsenic	100.0	105.9	97	75-125	1	20	1.000
Barium	100.0	246.7	96	75-125	5	20	10.00
Beryllium	100.0	100.9	101	75-125	1	20	1.000
Cadmium	100.0	90.18	90	75-125	1	20	1.000
Calcium	10,000	65,250 >LR	72 NM	75-125	NC	20	1.000
Chromium	100.0	103.8	103	75-125	0	20	1.000
Cobalt	100.0	97.86	97	75-125	1	20	1.000
Copper	100.0	95.28	95	75-125	2	20	1.000
Iron	10,000	22,090	92	75-125	6	20	10.00
Lead	100.0	105.4	105	75-125	0	20	1.000
Magnesium	10,000	68,980 >LR	33 NM	75-125	NC	20	1.000
Manganese	100.0	1,194 >LR	132 NM	75-125	NC	20	1.000
Nickel	100.0	98.96	97	75-125	0	20	1.000
Potassium	10,000	13,990	96	75-125	3	20	1.000
Selenium	100.0	85.10	85	75-125	0	20	1.000
Silver	100.0	93.68	94	75-125	1	20	1.000
Sodium	10,000	116,900 >LR	-24 NM	75-125	NC	20	1.000
Thallium	100.0	98.55	99	75-125	0	20	1.000
Vanadium	100.0	105.4	105	75-125	1	20	1.000
Zinc	100.0	91.10	90	75-125	2	20	1.000

NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1047MW101	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	111241
MSS Lab ID:	185381-001	Sampled:	03/07/06
Lab ID:	QC331217	Received:	03/08/06
Matrix:	Filtrate	Analyzed:	03/22/06
Units:	ug/L		

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim
Aluminum	ND	100.0	48.74 J	500.0		10
Antimony	ND	1.000	0.4933 J	5.000		10
Arsenic	ND	5.000	ND	25.00		10
Cadmium	ND	1.000	ND	5.000		10
Calcium	4,311	500.0	4,086	2,500	5	10
Chromium	ND	10.00	0.7239 J	50.00		10
Copper	2.303	1.000	2.619 J	5.000		10
Iron	ND	100.0	134.3 J	500.0		10
Lead	ND	3.000	ND	15.00		10
Magnesium	4,451	500.0	4,058	2,500	9	10
Manganese	ND	10.00	6.286 J	50.00	4	10
Nickel	ND	20.00	2.014 J	100.0		10
Potassium	1,281	500.0	1,313 J	2,500	2	10
Sodium	3,090	500.0	3,112	2,500	1	10
Vanadium	ND	10.00	3.791 J	50.00		10
Zinc	ND	20.00	4.442 J	100.0		10

J= Estimated value
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	231GW10	Units:	ug/L
Type:	Serial Dilution	Batch#:	111276
MSS Lab ID:	185457-009	Sampled:	03/09/06
Lab ID:	QC331378	Received:	03/10/06
Matrix:	Filtrate	Analyzed:	03/23/06

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Diln Fac
Aluminum	ND	100.0	9.598 J	500.0		10	5.000
Antimony	ND	1.000	ND	5.000		10	5.000
Arsenic	8.917	5.000	8.555 J	25.00		10	5.000
Barium	153.0	10.00	147.4	50.00	4	10	5.000
Beryllium	ND	2.000	ND	10.00		10	5.000
Cadmium	ND	1.000	ND	5.000		10	5.000
Calcium	58,100	5,000	51,560	25,000	11 *	10	50.00
Chromium	ND	10.00	0.6859 J	50.00		10	5.000
Cobalt	ND	10.00	0.5457 J	50.00		10	5.000
Copper	ND	1.000	ND	5.000		10	5.000
Iron	12,910	100.0	11,980	500.0	7	10	5.000
Lead	ND	3.000	ND	15.00		10	5.000
Magnesium	65,690	5,000	62,400	25,000	5	10	50.00
Manganese	1,062	100.0	996.2	500.0	6	10	50.00
Nickel	ND	20.00	1.853 J	100.0		10	5.000
Potassium	4,368	500.0	4,350	2,500	0	10	5.000
Selenium	ND	5.000	ND	25.00		10	5.000
Silver	ND	1.000	ND	5.000		10	5.000
Sodium	119,300	5,000	110,800	25,000	7	10	50.00
Thallium	ND	10.00	ND	50.00		10	50.00
Vanadium	ND	10.00	0.8180 J	50.00		10	5.000
Zinc	ND	20.00	ND	100.0		10	5.000

*= Value outside of QC limits; see narrative
J= Estimated value
ND= Not Detected
RL= Reporting Limit

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET05
Seqnum: 56117438031
File : c2213031
IDF : 1.0
Lab ID: 185381-001
Matrix: Filtrate
Batch : 111241
Time : 22-MAR-2006 16:08
Cal : 56117438001
Units : ug/L

Type : PDS
Inst : MET05
Seqnum: 56117438058
File : c2213058
IDF : 1.0
Lab ID: QC331218
Matrix: Filtrate
Batch : 111241
Time : 22-MAR-2006 18:40
Cal : 56117438001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (100X), 05WS0207

Analyte	MSS	Spiked	PDS	%Rec	Limits	Flags
Aluminum	10.64	100.0	106.5	96	75-125	
Antimony	0.7666	100.0	102.3	102	75-125	
Arsenic	0.8937	100.0	98.13	97	75-125	
Barium	3.230	100.0	99.96	97	75-125	
Beryllium	0.05676	100.0	100.0	100	75-125	
Cadmium	ND	100.0	92.20	92	75-125	
Calcium	4311	10000	14710	104	75-125	
Chromium	0.6050	100.0	102.3	102	75-125	
Cobalt	0.2041	100.0	98.25	98	75-125	
Copper	2.303	100.0	102.2	100	75-125	
Iron	44.91	10000	10210	102	75-125	
Lead	ND	100.0	100.5	101	75-125	
Magnesium	4451	10000	14750	103	75-125	
Manganese	6.514	100.0	104.7	98	75-125	
Molybdenum	0.5371	100.0	99.13	99	75-125	
Nickel	1.932	100.0	102.2	100	75-125	
Potassium	1281	10000	11800	105	75-125	
Selenium	ND	100.0	84.55	85	75-125	
Silver	0.06301	100.0	98.65	99	75-125	
Sodium	3090	10000	13570	105	75-125	
Thallium	0.9237	100.0	89.86	89	75-125	
Vanadium	4.018	100.0	105.5	101	75-125	
Zinc	3.974	100.0	90.88	87	75-125	

ISTD (ICALBLK c2213003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	598584	609041	1.75
Scandium	295512	293229	-0.77
Germanium	83286	75470	-9.38
Indium	492140	402409	-18.23
Bismuth	393607	335712	-14.71

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : PDS
Inst : MET05
Seqnum: 56118726036
File : c2310036
IDF : 1.0
Lab ID: QC331379
Matrix: Filtrate
Batch : 111276
Time : 23-MAR-2006 14:07
Cal : 56118726001
MSS : 185457-009
Units : ug/L

PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (100X), 05WS0207

Analyte	MSS Seqnum	Result	Spiked	PDS	%Rec	Limits	Flags
Aluminum	56118726025	3.736	100.0	95.23	91	75-125	
Antimony	56118726025	0.1934	100.0	101.4	101	75-125	
Arsenic	56118726025	8.917	100.0	106.0	97	75-125	
Barium	56118726025	153.0	100.0	258.2 >LR	105	75-125	>LR **b***
Beryllium	56118726025	ND	100.0	101.9	102	75-125	
Cadmium	56118726025	ND	100.0	91.19	91	75-125	
Chromium	56118726025	0.6640	100.0	104.9	104	75-125	
Cobalt	56118726025	0.5719	100.0	98.03	97	75-125	
Copper	56118726025	0.3913	100.0	95.21	95	75-125	
Iron	56118726025	12910	10000	23500 >LR	106	75-125	>LR **b***
Lead	56118726025	ND	100.0	104.1	104	75-125	
Molybdenum	56118726025	1.537	100.0	104.9	103	75-125	
Nickel	56118726025	1.872	100.0	99.22	97	75-125	
Potassium	56118726025	4368	10000	14100	97	75-125	
Selenium	56118726025	0.4274	100.0	84.44	84	75-125	
Silver	56118726025	ND	100.0	94.38	94	75-125	
Thallium	56118726031	ND	100.0	98.36	98	75-125	
Vanadium	56118726025	0.8397	100.0	105.6	105	75-125	
Zinc	56118726025	1.237	100.0	85.92	85	75-125	

ISTD (ICALBLK c2310003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	775809	685790	-11.60
Scandium	409443	415851	1.56
Germanium	101712	84740	-16.69
Indium	559595	441409	-21.12
Bismuth	426621	331073	-22.40

MISSING READINGS: **CA MG MN NA**

>LR=overrange b=noncompliant

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET05
Seqnum: 56118726032
File : c2310032
IDF : 10.0
Lab ID: 185457-009
Matrix: Filtrate
Batch : 111276
Time : 23-MAR-2006 13:45
Cal : 56118726001
Units : ug/L

Type : PDS
Inst : MET05
Seqnum: 56118726039
File : c2310039
IDF : 10.0
Lab ID: QC331379
Matrix: Filtrate
Batch : 111276
Time : 23-MAR-2006 14:23
Cal : 56118726001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (1000X), 05WS0207

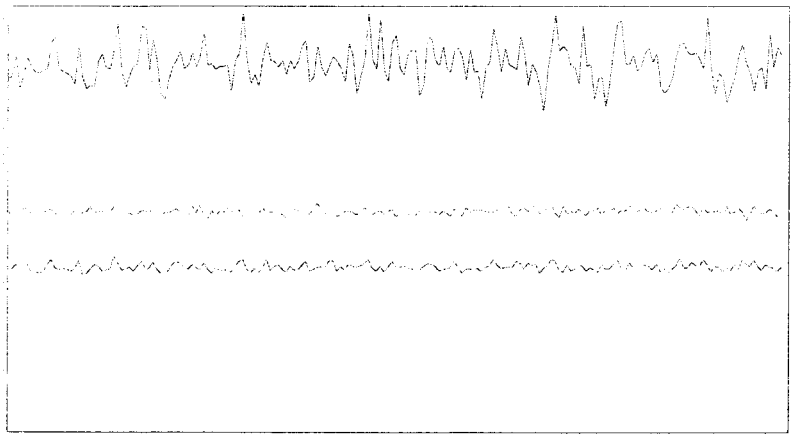
Analyte	MSS	Spiked	PDS	%Rec	Limits	Flags
Aluminum	2.341	10.00	11.86	95	75-125	
Antimony	ND	10.00	9.985	100	75-125	
Arsenic	1.013	10.00	11.28	103	75-125	
Barium	15.09	10.00	24.48	94	75-125	
Beryllium	ND	10.00	10.08	101	75-125	
Cadmium	ND	10.00	10.55	106	75-125	
Calcium	5810	1000	6962	115	75-125	:
Chromium	ND	10.00	10.11	101	75-125	
Cobalt	0.03853	10.00	9.745	97	75-125	
Copper	ND	10.00	10.13	101	75-125	
Iron	1231	1000	2238	101	75-125	
Lead	ND	10.00	9.602	96	75-125	
Magnesium	6569	1000	7327	76	75-125	:
Manganese	106.2	10.00	120.4	142	75-125	:
Molybdenum	0.1826	10.00	9.937	98	75-125	
Nickel	0.2435	10.00	10.27	100	75-125	
Potassium	458.5	1000	1463	100	75-125	
Selenium	ND	10.00	9.948	99	75-125	
Silver	ND	10.00	10.01	100	75-125	
Sodium	11930	1000	12610	68	75-125	:
Thallium	ND	10.00	9.410	94	75-125	
Vanadium	ND	10.00	9.815	98	75-125	
Zinc	ND	10.00	11.22	112	75-125	

ISTD (ICALBLK c2310003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	775809	775352	-0.06
Scandium	409443	432252	5.57
Germanium	101712	95733	-5.88
Indium	559595	517865	-7.46
Bismuth	426621	395136	-7.38

:=recovery not meaningful

Tune Report

Tune File : Autotune.u



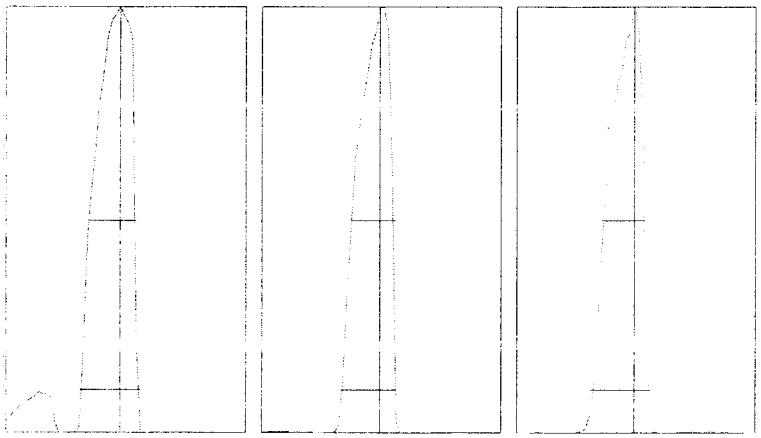
m/z:	7	89	205
Range:	20,000	50,000	20,000
Count:	17,690	19,378	10,147
Mean:	17309.5	19360.1	10323.2
RSD%:	5.09	2.30	1.45
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.53%
Doubly Charged:	70/140	1.23%

Background:

m/z:	7	89	205
Cps:	1.5	1.5	2.7



m/z:	7	89	205
Height:	16,990	19,596	10,578
Axis:	6.95	89.00	205.00
W-50%:	0.60	0.55	0.55
W-10%:	0.7500	0.700	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1210 W	Extract 1:	-156.2 V	AMU Gain:	129
RF Matching:	1.62 V	Extract 2:	-86 V	AMU Offset:	128
Smpl Depth:	7 mm	Einzel 1,3:	-86 V	Axis Gain:	0.9998
Torch-H:	0 mm	Einzel 2:	16 V	Axis Offset:	-0.07
Torch-V:	0.4 mm	Omega Bias:	-33 V	QP Bias:	1.5 V
Carrier Gas:	1.13 L/min	Omega (+):	1 V		
Makeup Gas:	0 L/min	Omega (-):	-6.7 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	7.1 V	Discriminator:	8.7 mV
PeriPump1:	0.1 rps	Plate Bias:	-12.5 V	Analog HV:	1720 V
PeriPump2:	--- rps			Pulse HV:	1170 V
S/C Temp:	2 degC				

Generated : Mar 22, 2006 11:22:52
Printed : Mar 22, 2006 11:22:59

P/A Factor Tuning Report

Acquired:Mar 22 2006 11:56 am

Mass[amu]	Element	P/A Factor
6	Li	0.074338
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.094745
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.097790
45	Sc	Sensitivity too low
51	V	0.096860
52	Cr	0.097395
53	Cr	Sensitivity too low
54	Fe	0.102236
55	Mn	0.098998
57	Fe	0.101141
59	Co	0.099755
60	Ni	Sensitivity too low
63	Cu	Sensitivity too low
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.099561
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	Sensitivity too low
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	0.101001
118	(In)	0.102753
121	Sb	Sensitivity too low
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.103037
166	Er	Sensitivity too low

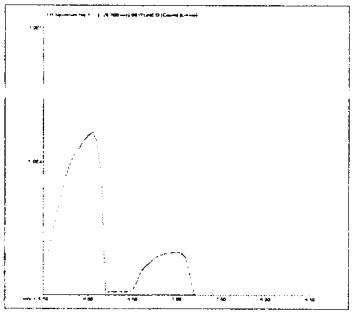
```
    205       Tl    0.102084
    206     (Pb)  Sensitivity too low
    207     (Pb)  Sensitivity too low
    208       Pb    0.100776
    209       Bi    0.100921

===Detector Parameters===
  Discriminator: 8.7 mV
      Analog HV: 1720 V
       Pulse HV: 1170 V
```

6020 QC Tune Report

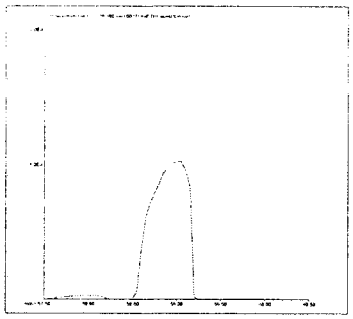
Data File: C:\ICPCHEM\1\DATA\06C2213b.B\001TUNE.D
Date Acquired: Mar 22 2006 01:18 pm
Acq. Method: TN6020.M
Operator:
Sample Name: TUN,S2898
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

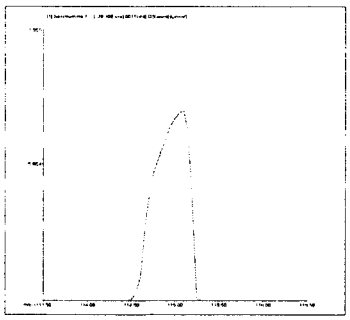
Element	Actual	Required	Flag
7 Li	2.20	5.00	
59 Co	1.17	5.00	
115 In	1.95	5.00	
205 Tl	1.23	5.00	



7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.55
Required: 0.90
Flag:



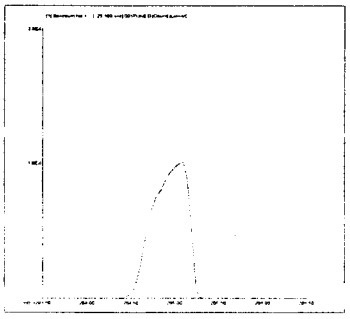
115 In

Mass Calib.

Actual:	115.10	
Required:	114.90 -	115.10
Flag:		

Peak Width

Actual:	0.60
Required:	0.90
Flag:	



205 Tl

Mass Calib.

Actual:	205.10	
Required:	204.90 -	205.10
Flag:		

Peak Width

Actual:	0.60
Required:	0.90
Flag:	

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06C2213b.B\002BLNK.D\002BLNK.D#
Date Acquired: Mar 22 2006 01:24 pm
Acq. Method: 60200111.M
Operator:
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update: Mar 22 2006 00:54 pm
Sample Type: 6-Blank
Dilution Factor: 1.00

QC Elements

Element	Corr. Conc.		RSD(%)	Raw Conc.	High Limit	Flag
9 Be	0.003167	ppb	82.10	0.003167	1.00	
23 Na	-37.73	ppb	5.48	-37.73	1.00	
26 Mg	-14.52	ppb	3.03	-14.52	1.00	
27 Al	-14.79	ppb	1.49	-14.79	1.00	
39 K	118	ppb	195.34	118	1.00	
44 Ca	-25.8	ppb	42.25	-25.8	1.00	
51 V	0.02238	ppb	265.68	0.02238	1.00	
52 Cr	-0.0677	ppb	237.22	-0.0677	1.00	
55 Mn	-0.031	ppb	13.13	-0.031	1.00	
57 Fe	-28.79	ppb	15.68	-28.79	1.00	
59 Co	-0.02877	ppb	4.17	-0.02877	1.00	
60 Ni	-0.04276	ppb	35.78	-0.04276	1.00	
65 Cu	-0.03796	ppb	125.11	-0.03796	1.00	
66 Zn	-0.1811	ppb	23.94	-0.1811	1.00	
75 As	0.1092	ppb	81.60	0.1092	1.00	
82 Se	0.1261	ppb	253.37	0.1261	1.00	
95 Mo	-0.2476	ppb	8.19	-0.2476	1.00	
109 Ag	-0.01318	ppb	51.77	-0.01318	1.00	
111 Cd	-0.03953	ppb	99.72	-0.03953	1.00	
121 Sb	0.06556	ppb	81.30	0.06556	1.00	
137 Ba	-0.007053	ppb	231.53	-0.007053	1.00	
205 Tl	0.0895	ppb	37.97	0.0895	1.00	
208 Pb	-0.01924	ppb	58.78	-0.01924	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	554197.19	11.04	---	#VALUE!	80 - 120	
45 Sc	347250.00	12.16	---	#VALUE!	80 - 120	
72 Ge	91847.34	6.12	---	#VALUE!	80 - 120	
115 In	583614.75	11.55	---	#VALUE!	80 - 120	
209 Bi	465695.56	11.27	---	#VALUE!	80 - 120	

ISTD Ref File : ---

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Fail
ISTD: Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06C2213b.B\003CAL
Date Acquired: Mar 22 2006 01:29 pm
Operator:
Sample Name: std-blk
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 22 2006 00:54 pm
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	598583.63	A	6881.00	1.15
9	Be	7.78	P	5.09	65.47
23	Na	61722.22	P	2563.00	4.15
26	Mg	1031.11	P	115.30	11.18
27	Al	10320.00	P	270.20	2.62
39	K	250426.70	P	2085.00	0.83
44	Ca	2057.75	P	81.35	3.95
45	Sc	295512.19	P	2687.00	0.91
51	V	977.73	P	269.20	27.53
52	Cr	2656.67	P	63.33	2.38
55	Mn	474.44	P	15.03	3.17
57	Fe	3757.78	P	101.20	2.69
59	Co	76.67	P	14.53	18.95
60	Ni	97.78	P	8.39	8.58
65	Cu	334.44	P	28.74	8.59
66	Zn	842.22	P	41.14	4.88
72	Ge	83286.22	P	785.00	0.94
75	As	207.40	P	110.70	53.38
82	Se	42.22	P	10.46	24.77
95	Mo	71.11	P	5.09	7.16
109	Ag	30.00	P	6.67	22.22
111	Cd	130.52	P	17.59	13.48
115	In	492139.81	P	2720.00	0.55
121	Sb	356.67	P	38.44	10.78
137	Ba	27.78	P	3.85	13.86
205	Tl	355.56	P	32.89	9.25
208	Pb	287.78	P	18.36	6.38
209	Bi	393606.69	P	4705.00	1.20

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2213b.B\004CALI.D\004CALI.D#
Date Acquired: Mar 22 2006 01:35 pm
Operator:
Sample Name: CS1,S2889
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 22 2006 01:31 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	626725.19	A	23870.00	3.81
9 Be	310.00	P	52.39	16.90
23 Na	178065.59	P	683.30	0.38
26 Mg	13022.22	P	103.00	0.79
27 Al	7642.22	P	158.30	2.07
39 K	329352.19	P	4313.00	1.31
44 Ca	3982.99	P	103.60	2.60
45 Sc	316692.19	P	31660.00	10.00
51 V	1603.90	P	178.90	11.15
52 Cr	3576.67	P	42.56	1.19
55 Mn	1728.89	P	33.55	1.94
57 Fe	5947.78	P	51.89	0.87
59 Co	1118.89	P	77.63	6.94
60 Ni	378.89	P	48.80	12.88
65 Cu	694.39	P	55.41	7.98
66 Zn	1262.16	P	125.30	9.93
72 Ge	87022.89	P	5791.00	6.65
75 As	254.45	P	69.75	27.41
82 Se	59.33	P	21.46	36.17
95 Mo	336.67	P	23.33	6.93
109 Ag	693.33	P	27.28	3.93
111 Cd	266.67	P	21.74	8.15
115 In	525340.69	M	61530.00	11.71
121 Sb	805.56	P	52.32	6.49
137 Ba	238.89	P	33.39	13.98
205 Tl	1286.67	P	108.40	8.42
208 Pb	1723.33	P	6.67	0.39
209 Bi	407085.50	P	30990.00	7.61

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	626725.19	3.81	598583.63	104.7	80 - 120	

45	Sc	316692.19	10.00	295512.19	107.2	80 -	120
72	Ge	87022.89	6.65	83286.23	104.5	80 -	120
115	In	525340.69	11.71	492139.78	106.7	80 -	120
209	Bi	407085.53	7.61	393606.66	103.4	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2213b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2213b.B\005CALI.D\005CALI.D#
Date Acquired: Mar 22 2006 01:40 pm
Operator:
Sample Name: CS2,S2890
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 22 2006 01:36 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	614070.88	A	15920.00	2.59
9 Be	625.56	P	44.76	7.16
23 Na	307212.19	P	991.10	0.32
26 Mg	25852.22	P	446.50	1.73
27 Al	7566.67	P	325.20	4.30
39 K	408328.91	P	999.30	0.24
44 Ca	6094.01	P	54.21	0.89
45 Sc	300186.69	P	5150.00	1.72
51 V	3019.55	P	255.60	8.46
52 Cr	4333.33	P	195.50	4.51
55 Mn	2901.11	P	237.20	8.18
57 Fe	8155.56	P	363.60	4.46
59 Co	2282.22	P	127.90	5.60
60 Ni	572.22	P	81.26	14.20
65 Cu	928.78	P	15.75	1.70
66 Zn	1253.20	P	164.60	13.13
72 Ge	83795.78	P	590.90	0.71
75 As	405.48	P	79.39	19.58
82 Se	67.11	P	16.68	24.85
95 Mo	573.33	P	37.12	6.47
109 Ag	1275.56	P	93.35	7.32
111 Cd	386.48	P	66.67	17.25
115 In	489693.91	P	5107.00	1.04
121 Sb	1186.67	P	130.20	10.97
137 Ba	371.11	P	20.09	5.41
205 Tl	2144.44	P	130.00	6.06
208 Pb	3111.11	P	57.38	1.84
209 Bi	394704.41	P	1426.00	0.36

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	614070.88	2.59	598583.63	102.6	80 - 120	

45	Sc	300186.66	1.72	295512.19	101.6	80 -	120
72	Ge	83795.77	0.71	83286.23	100.6	80 -	120
115	In	489693.94	1.04	492139.78	99.5	80 -	120
209	Bi	394704.44	0.36	393606.66	100.3	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2213b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2213b.B\006CALI.D\006CALI.D#
Date Acquired: Mar 22 2006 01:46 pm
Operator:
Sample Name: CS3,S2891
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 22 2006 01:42 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	616842.81	A	5489.00	0.89
9 Be	1306.67	P	73.56	5.63
23 Na	593487.38	M	21550.00	3.63
26 Mg	52165.55	P	346.00	0.66
27 Al	10818.89	P	276.20	2.55
39 K	586139.19	M	19420.00	3.31
44 Ca	10581.56	P	190.40	1.80
45 Sc	301277.81	P	2805.00	0.93
51 V	4715.85	P	181.10	3.84
52 Cr	6023.33	P	147.30	2.45
55 Mn	5315.56	P	107.50	2.02
57 Fe	13336.67	P	116.80	0.88
59 Co	4604.44	P	201.70	4.38
60 Ni	1083.33	P	11.55	1.07
65 Cu	1758.66	P	88.02	5.00
66 Zn	1783.07	P	15.28	0.86
72 Ge	84437.33	P	313.20	0.37
75 As	710.46	P	141.10	19.86
82 Se	98.22	P	20.01	20.37
95 Mo	1092.22	P	56.70	5.19
109 Ag	2552.22	P	92.16	3.61
111 Cd	632.79	P	49.25	7.78
115 In	490708.69	P	5618.00	1.14
121 Sb	1965.56	P	98.34	5.00
137 Ba	771.11	P	45.38	5.89
205 Tl	4221.11	P	71.52	1.69
208 Pb	6237.78	P	44.39	0.71
209 Bi	390686.69	P	5270.00	1.35

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	616842.81	0.89	598583.63	103.1	80 - 120	

45	Sc	301277.78	0.93	295512.19	102.0	80 -	120
72	Ge	84437.34	0.37	83286.23	101.4	80 -	120
115	In	490708.69	1.14	492139.78	99.7	80 -	120
209	Bi	390686.66	1.35	393606.66	99.3	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2213b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2213b.B\007CALI.D\007CALI.D#
Date Acquired: Mar 22 2006 01:52 pm
Operator:
Sample Name: CS4,S2892
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 22 2006 01:48 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	621523.50	A	14120.00	2.27
9 Be	12638.89	P	155.10	1.23
23 Na	5439112.00	A	108100.00	1.99
26 Mg	527673.31	P	3480.00	0.66
27 Al	50034.44	P	288.70	0.58
39 K	3567567.00	A	48010.00	1.35
44 Ca	88484.00	P	615.40	0.70
45 Sc	307593.31	P	2883.00	0.94
51 V	39202.48	P	422.40	1.08
52 Cr	36240.00	P	846.90	2.34
55 Mn	46992.22	P	1128.00	2.40
57 Fe	102644.40	P	1350.00	1.32
59 Co	44135.55	P	562.60	1.27
60 Ni	10097.78	P	352.80	3.49
65 Cu	12049.95	P	234.10	1.94
66 Zn	7685.14	P	120.40	1.57
72 Ge	85147.33	P	276.60	0.32
75 As	5785.11	P	106.30	1.84
82 Se	582.89	P	27.97	4.80
95 Mo	10420.00	P	122.50	1.18
109 Ag	24940.00	P	262.40	1.05
111 Cd	5366.77	P	157.20	2.93
115 In	492198.31	P	1718.00	0.35
121 Sb	17257.78	P	169.50	0.98
137 Ba	7514.44	P	82.21	1.09
205 Tl	40417.78	P	1138.00	2.82
208 Pb	59267.78	P	392.10	0.66
209 Bi	395321.09	P	9531.00	2.41

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	621523.50	2.27	598583.63	103.8	80 - 120	

45	Sc	307593.31	0.94	295512.19	104.1	80 - 120
72	Ge	85147.34	0.32	83286.23	102.2	80 - 120
115	In	492198.25	0.35	492139.78	100.0	80 - 120
209	Bi	395321.09	2.41	393606.66	100.4	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2213b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2213b.B\008CALI.D\008CALI.D#
Date Acquired: Mar 22 2006 01:57 pm
Operator:
Sample Name: CS5,S2886
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 22 2006 01:53 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	617203.50	A	7146.00	1.16
9	Be	127428.90	P	892.50	0.70
23	Na	52939000.00	A	632800.00	1.20
26	Mg	5245418.00	A	41820.00	0.80
27	Al	428421.09	P	3501.00	0.82
39	K	32178790.00	A	395700.00	1.23
44	Ca	917646.69	A	16910.00	1.84
45	Sc	302705.50	P	6462.00	2.13
51	V	389373.31	P	3622.00	0.93
52	Cr	338945.50	P	5536.00	1.63
55	Mn	462832.19	P	6581.00	1.42
57	Fe	1040301.00	A	11690.00	1.12
59	Co	436283.31	P	5059.00	1.16
60	Ni	95575.55	P	1749.00	1.83
65	Cu	118047.20	P	1467.00	1.24
66	Zn	64810.44	P	633.50	0.98
72	Ge	84770.44	P	1467.00	1.73
75	As	58656.90	P	461.00	0.79
82	Se	5407.78	P	86.05	1.59
95	Mo	105897.80	P	968.40	0.91
109	Ag	245376.70	P	1524.00	0.62
111	Cd	51110.25	P	561.60	1.10
115	In	473034.50	P	6461.00	1.37
121	Sb	167023.30	P	2055.00	1.23
137	Ba	74331.11	P	1133.00	1.52
205	Tl	417383.31	P	4097.00	0.98
208	Pb	651230.00	P	3471.00	0.53
209	Bi	387726.69	P	6061.00	1.56

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	617203.50	1.16	598583.63	103.1	80 - 120	

45	Sc	302705.53	2.13	295512.19	102.4	80 -	120
72	Ge	84770.45	1.73	83286.23	101.8	80 -	120
115	In	473034.47	1.37	492139.78	96.1	80 -	120
209	Bi	387726.66	1.56	393606.66	98.5	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2213b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2213b.B\009CALI.D\009CALI.D#
Date Acquired: Mar 22 2006 02:03 pm
Operator:
Sample Name: CS6,S2887
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 22 2006 01:59 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	604129.88	A	6617.00	1.10
9	Be	244907.80	P	2029.00	0.83
23	Na	103617200.00	A	1392000.00	1.34
26	Mg	10212680.00	A	114000.00	1.12
27	Al	874205.63	A	6419.00	0.73
39	K	63945920.00	A	712500.00	1.11
44	Ca	1820802.00	A	27120.00	1.49
45	Sc	308810.00	P	6730.00	2.18
51	V	773501.50	M	24850.00	3.21
52	Cr	666588.88	P	9380.00	1.41
55	Mn	928565.63	A	2905.00	0.31
57	Fe	2030043.00	A	21020.00	1.04
59	Co	882515.31	A	6893.00	0.78
60	Ni	187693.30	P	3780.00	2.01
65	Cu	223788.20	P	2654.00	1.19
66	Zn	123666.70	P	809.00	0.65
72	Ge	84681.56	P	298.30	0.35
75	As	114606.30	P	731.20	0.64
82	Se	10410.67	P	116.40	1.12
95	Mo	210388.91	P	1555.00	0.74
109	Ag	479593.31	P	2334.00	0.49
111	Cd	98885.07	P	1329.00	1.34
115	In	463788.41	P	2632.00	0.57
121	Sb	322288.91	P	2854.00	0.89
137	Ba	145154.41	P	731.70	0.50
205	Tl	817458.81	M	10830.00	1.32
208	Pb	1145188.00	P	7431.00	0.65
209	Bi	380788.91	P	8156.00	2.14

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	604129.88	1.10	598583.63	100.9	80 - 120	

45	Sc	308810.00	2.18	295512.19	104.5	80 -	120
72	Ge	84681.56	0.35	83286.23	101.7	80 -	120
115	In	463788.38	0.57	492139.78	94.2	80 -	120
209	Bi	380788.88	2.14	393606.66	96.7	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2213b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Summary

Calibration : C:\ICPCHEM\1\CALIB\60200111.C
Last Calib: Mar 22, 2006 14:04
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\06c2213b.b\003calb.d\	003calb.d#	Mar 22 2006 01:29 pm
2	...hem\1\data\06c2213b.b\004cali.d\	004cali.d#	Mar 22 2006 01:35 pm
3	...hem\1\data\06c2213b.b\005cali.d\	005cali.d#	Mar 22 2006 01:40 pm
4	...hem\1\data\06c2213b.b\006cali.d\	006cali.d#	Mar 22 2006 01:46 pm
5	...hem\1\data\06c2213b.b\007cali.d\	007cali.d#	Mar 22 2006 01:52 pm
6	...hem\1\data\06c2213b.b\008cali.d\	008cali.d#	Mar 22 2006 01:57 pm
7	...hem\1\data\06c2213b.b\009cali.d\	009cali.d#	Mar 22 2006 02:03 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	Excluded	---	ppb
Be	9	6	Y = 1.017E-1*X +6.465E-4(blank)	---	ppb
Na	23	45	Y = 8.455E-1*X +1.045E+1(blank)	---	ppb
Mg	25	45	Excluded	---	ppb
Mg	26	45	Y = 8.348E-2*X +1.744E-1(blank)	---	ppb
Al	27	45	Y = 6.974E-1*X +1.746E+0(blank)	---	ppb
K	39	45	Y = 5.182E-1*X +4.238E+1(blank)	---	ppb
Ca	43	45	Excluded	---	ppb
Ca	44	45	Y = 1.480E-2*X +3.483E-1(blank)	---	ppb
Sc	45	---	Excluded	---	ppb
V	51	72	Y = 2.283E+0*X +5.864E-1(blank)	---	ppb
Cr	52	72	Y = 1.965E+0*X +1.595E+0(blank)	---	ppb
Cr	53	72	Excluded	---	ppb
Fe	54	72	Excluded	---	ppb
Mn	55	72	Y = 2.737E+0*X +2.848E-1(blank)	---	ppb
Fe	57	72	Y = 6.008E-2*X +2.256E+0(blank)	---	ppb
Co	59	72	Y = 2.599E+0*X +4.607E-2(blank)	---	ppb
Ni	60	72	Y = 5.557E-1*X +5.870E-2(blank)	---	ppb
Cu	63	72	Excluded	---	ppb
Cu	65	72	Y = 6.666E-1*X +2.008E-1(blank)	---	ppb
Zn	66	72	Y = 3.656E-1*X +5.055E-1(blank)	---	ppb
Ge	72	---	Excluded	---	ppb
As	75	72	Y = 3.391E-1*X +1.245E-1(blank)	---	ppb
(As)	77	72	Excluded	---	ppb
Se	82	72	Y = 3.082E-2*X +2.534E-2(blank)	---	ppb
(As)	83	72	Excluded	---	ppb
(Ca)	88	72	Excluded	---	ppb
Y	89	72	Excluded	---	ppb
Mo	95	72	Y = 6.216E-1*X +4.271E-2(blank)	---	ppb
Mo	98	72	Excluded	---	ppb
(Mo)	99	72	Excluded	---	ppb
(Cd)	106	72	Excluded	---	ppb
(Cd)	108	72	Excluded	---	ppb
Ag	109	72	Y = 1.422E+0*X +1.799E-2(blank)	---	ppb
Cd	111	72	Y = 2.934E-1*X +7.836E-2(blank)	---	ppb
Cd	114	72	Excluded	---	ppb
In	115	---	Excluded	---	ppb
(In)	118	---	Excluded	---	ppb
Sb	121	115	Y = 1.741E-1*X +3.623E-2(blank)	---	ppb
Ba	135	115	Excluded	---	ppb
Ba	137	115	Y = 7.829E-2*X +2.822E-3(blank)	---	ppb
Tb	159	---	Excluded	---	ppb
Er	166	115	Excluded	---	ppb
Tl	205	209	Y = 5.368E-1*X +4.514E-2(blank)	---	ppb
(Pb)	206	209	Excluded	---	ppb
(Pb)	207	209	Excluded	---	ppb
Pb	208	209	Y = 7.694E-1*X +3.658E-2(blank)	---	ppb
Bi	209	---	Excluded	---	ppb
Th	232	209	--------	---	ppb
U	238	209	--------	---	ppb

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438010 File : c2213010 Time : 22-MAR-2006 14:08
Cal : 56117438001 Caldate: 22-MAR-2006
Standards: S2895, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	1.3095	0.7037	100.0	98.41	ug/L	-2	10	
Antimony	0.2128	0.1734	100.0	99.43	ug/L	-1	10	
Arsenic	0.3858	0.3424	100.0	100.6	ug/L	1	10	
Barium	0.0800	0.0762	100.0	97.35	ug/L	-3	10	
Beryllium	0.1021	0.1001	100.0	98.38	ug/L	-2	10	
Cadmium	0.3928	0.2962	100.0	100.7	ug/L	1	10	
Calcium	0.0164	0.0149	10000	10020	ug/L	0	10	
Chromium	2.9665	1.9835	100.0	100.2	ug/L	0	10	
Cobalt	2.6328	2.5356	100.0	97.55	ug/L	-2	10	
Copper	0.8429	0.6701	100.0	100.2	ug/L	0	10	
Iron	0.0716	0.0610	10000	10110	ug/L	1	10	
Lead	0.7964	0.8253	100.0	107.2	ug/L	7	10	
Magnesium	0.0856	0.0849	10000	10170	ug/L	2	10	
Manganese	3.1383	2.7084	100.0	98.84	ug/L	-1	10	
Molybdenum	0.6378	0.6157	100.0	98.99	ug/L	-1	10	
Nickel	0.6507	0.5598	100.0	100.6	ug/L	1	10	
Potassium	0.7926	0.5263	10000	10070	ug/L	1	10	
Selenium	0.0470	0.0318	100.0	102.3	ug/L	2	10	
Silver	1.4929	1.4192	100.0	99.78	ug/L	0	10	
Sodium	0.9213	0.8558	10000	10110	ug/L	1	10	
Thallium	0.5340	0.5312	100.0	98.86	ug/L	-1	10	
Vanadium	2.6554	2.2603	100.0	98.77	ug/L	-1	10	
Zinc	0.7501	0.3798	100.0	102.5	ug/L	3	10	

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Lithium	598584	646628	8.03
Scandium	295512	310884	5.20
Germanium	83286	85262	2.37
Indium	492140	474337	-3.62
Bismuth	393607	384420	-2.33

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438022 File : c2213022 Time : 22-MAR-2006 15:18
Cal : 56117438001 Caldate: 22-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3095	0.7215	150.0	152.7	ug/L	2	10	
Antimony	0.2128	0.1699	150.0	146.2	ug/L	-3	10	
Arsenic	0.3858	0.3378	150.0	149.1	ug/L	-1	10	
Barium	0.0800	0.0776	150.0	148.6	ug/L	-1	10	
Beryllium	0.1021	0.1008	150.0	148.6	ug/L	-1	10	
Cadmium	0.3928	0.2893	150.0	147.6	ug/L	-2	10	
Calcium	0.0164	0.0148	15000	14980	ug/L	0	10	
Chromium	2.9665	1.9884	150.0	151.0	ug/L	1	10	
Cobalt	2.6328	2.5605	150.0	147.8	ug/L	-1	10	
Copper	0.8429	0.6651	150.0	149.4	ug/L	0	10	
Iron	0.0716	0.0608	15000	15150	ug/L	1	10	
Lead	0.7964	0.7472	150.0	145.6	ug/L	-3	10	
Magnesium	0.0856	0.0834	15000	14980	ug/L	0	10	
Manganese	3.1383	2.7205	150.0	149.0	ug/L	-1	10	
Molybdenum	0.6378	0.6159	150.0	148.6	ug/L	-1	10	
Nickel	0.6507	0.5632	150.0	151.9	ug/L	1	10	
Potassium	0.7926	0.5207	15000	14990	ug/L	0	10	
Selenium	0.0470	0.0307	150.0	148.7	ug/L	-1	10	
Silver	1.4929	1.3971	150.0	147.3	ug/L	-2	10	
Sodium	0.9213	0.8568	15000	15190	ug/L	1	10	
Thallium	0.5340	0.5230	150.0	146.0	ug/L	-3	10	
Vanadium	2.6554	2.3047	150.0	151.2	ug/L	1	10	
Zinc	0.7501	0.3674	150.0	149.4	ug/L	0	10	

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Lithium	598584	606713	1.36
Scandium	295512	297879	0.80
Germanium	83286	81401	-2.26
Indium	492140	444541	-9.67
Bismuth	393607	367227	-6.70

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438022 File : c2213022 Time : 22-MAR-2006 15:18
Cal : 56117438001 Caldate: 22-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3095	0.7215	150.0	152.7	ug/L	2	10	
Antimony	0.2128	0.1699	150.0	146.2	ug/L	-3	10	
Arsenic	0.3858	0.3378	150.0	149.1	ug/L	-1	10	
Barium	0.0800	0.0776	150.0	148.6	ug/L	-1	10	
Beryllium	0.1021	0.1008	150.0	148.6	ug/L	-1	10	
Cadmium	0.3928	0.2893	150.0	147.6	ug/L	-2	10	
Calcium	0.0164	0.0148	15000	14980	ug/L	0	10	
Chromium	2.9665	1.9884	150.0	151.0	ug/L	1	10	
Cobalt	2.6328	2.5605	150.0	147.8	ug/L	-1	10	
Copper	0.8429	0.6651	150.0	149.4	ug/L	0	10	
Iron	0.0716	0.0608	15000	15150	ug/L	1	10	
Lead	0.7964	0.7472	150.0	145.6	ug/L	-3	10	
Magnesium	0.0856	0.0834	15000	14980	ug/L	0	10	
Manganese	3.1383	2.7205	150.0	149.0	ug/L	-1	10	
Molybdenum	0.6378	0.6159	150.0	148.6	ug/L	-1	10	
Nickel	0.6507	0.5632	150.0	151.9	ug/L	1	10	
Potassium	0.7926	0.5207	15000	14990	ug/L	0	10	
Selenium	0.0470	0.0307	150.0	148.7	ug/L	-1	10	
Silver	1.4929	1.3971	150.0	147.3	ug/L	-2	10	
Sodium	0.9213	0.8568	15000	15190	ug/L	1	10	
Thallium	0.5340	0.5230	150.0	146.0	ug/L	-3	10	
Vanadium	2.6554	2.3047	150.0	151.2	ug/L	1	10	
Zinc	0.7501	0.3674	150.0	149.4	ug/L	0	10	

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Lithium	598584	606713	1.36
Scandium	295512	297879	0.80
Germanium	83286	81401	-2.26
Indium	492140	444541	-9.67
Bismuth	393607	367227	-6.70

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438037 File : c2213037 Time : 22-MAR-2006 16:42
Cal : 56117438001 Caldate: 22-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3095	0.7302	150.0	154.5	ug/L	3	10	
Antimony	0.2128	0.1693	150.0	145.7	ug/L	-3	10	
Arsenic	0.3858	0.3373	150.0	148.8	ug/L	-1	10	
Barium	0.0800	0.0757	150.0	145.1	ug/L	-3	10	
Beryllium	0.1021	0.1039	150.0	153.2	ug/L	2	10	
Cadmium	0.3928	0.2831	150.0	144.5	ug/L	-4	10	
Calcium	0.0164	0.0149	15000	15030	ug/L	0	10	
Chromium	2.9665	1.9809	150.0	150.4	ug/L	0	10	
Cobalt	2.6328	2.5313	150.0	146.1	ug/L	-3	10	
Copper	0.8429	0.6693	150.0	150.3	ug/L	0	10	
Iron	0.0716	0.0604	15000	15030	ug/L	0	10	
Lead	0.7964	0.7396	150.0	144.1	ug/L	-4	10	
Magnesium	0.0856	0.0858	15000	15420	ug/L	3	10	
Manganese	3.1383	2.6760	150.0	146.5	ug/L	-2	10	
Molybdenum	0.6378	0.6163	150.0	148.7	ug/L	-1	10	
Nickel	0.6507	0.5574	150.0	150.3	ug/L	0	10	
Potassium	0.7926	0.5302	15000	15270	ug/L	2	10	
Selenium	0.0470	0.0315	150.0	152.7	ug/L	2	10	
Silver	1.4929	1.3710	150.0	144.6	ug/L	-4	10	
Sodium	0.9213	0.8801	15000	15600	ug/L	4	10	
Thallium	0.5340	0.5180	150.0	144.7	ug/L	-4	10	
Vanadium	2.6554	2.3028	150.0	151.1	ug/L	1	10	
Zinc	0.7501	0.3668	150.0	149.1	ug/L	-1	10	

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Lithium	598584	631004	5.42
Scandium	295512	303829	2.81
Germanium	83286	81178	-2.53
Indium	492140	435554	-11.50
Bismuth	393607	360052	-8.52

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438052 File : c2213052 Time : 22-MAR-2006 18:05
Cal : 56117438001 Caldate: 22-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3095	0.7304	150.0	154.6	ug/L	3	10	
Antimony	0.2128	0.1704	150.0	146.6	ug/L	-2	10	
Arsenic	0.3858	0.3413	150.0	150.6	ug/L	0	10	
Barium	0.0800	0.0776	150.0	148.7	ug/L	-1	10	
Beryllium	0.1021	0.1031	150.0	152.0	ug/L	1	10	
Cadmium	0.3928	0.2888	150.0	147.4	ug/L	-2	10	
Calcium	0.0164	0.0151	15000	15280	ug/L	2	10	
Chromium	2.9665	1.9976	150.0	151.7	ug/L	1	10	
Cobalt	2.6328	2.5338	150.0	146.2	ug/L	-3	10	
Copper	0.8429	0.6677	150.0	149.9	ug/L	0	10	
Iron	0.0716	0.0613	15000	15270	ug/L	2	10	
Lead	0.7964	0.7541	150.0	147.0	ug/L	-2	10	
Magnesium	0.0856	0.0847	15000	15220	ug/L	1	10	
Manganese	3.1383	2.7031	150.0	148.0	ug/L	-1	10	
Molybdenum	0.6378	0.6144	150.0	148.2	ug/L	-1	10	
Nickel	0.6507	0.5569	150.0	150.2	ug/L	0	10	
Potassium	0.7926	0.5332	15000	15350	ug/L	2	10	
Selenium	0.0470	0.0317	150.0	153.3	ug/L	2	10	
Silver	1.4929	1.3802	150.0	145.6	ug/L	-3	10	
Sodium	0.9213	0.8641	15000	15320	ug/L	2	10	
Thallium	0.5340	0.5304	150.0	148.1	ug/L	-1	10	
Vanadium	2.6554	2.3050	150.0	151.2	ug/L	1	10	
Zinc	0.7501	0.3691	150.0	150.1	ug/L	0	10	

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Lithium	598584	624990	4.41
Scandium	295512	313331	6.03
Germanium	83286	84397	1.33
Indium	492140	455406	-7.46
Bismuth	393607	366153	-6.97

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438063 File : c2213063 Time : 22-MAR-2006 19:08
Cal : 56117438001 Caldate: 22-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3095	0.7347	150.0	155.5	ug/L	4	10	
Antimony	0.2128	0.1709	150.0	147.1	ug/L	-2	10	
Arsenic	0.3858	0.3399	150.0	150.0	ug/L	0	10	
Barium	0.0800	0.0758	150.0	145.2	ug/L	-3	10	
Beryllium	0.1021	0.1049	150.0	154.6	ug/L	3	10	
Cadmium	0.3928	0.2896	150.0	147.8	ug/L	-1	10	
Calcium	0.0164	0.0147	15000	14890	ug/L	-1	10	
Chromium	2.9665	2.0109	150.0	152.7	ug/L	2	10	
Cobalt	2.6328	2.5408	150.0	146.6	ug/L	-2	10	
Copper	0.8429	0.6643	150.0	149.2	ug/L	-1	10	
Iron	0.0716	0.0615	15000	15310	ug/L	2	10	
Lead	0.7964	0.7320	150.0	142.7	ug/L	-5	10	
Magnesium	0.0856	0.0832	15000	14940	ug/L	0	10	
Manganese	3.1383	2.7182	150.0	148.8	ug/L	-1	10	
Molybdenum	0.6378	0.6191	150.0	149.3	ug/L	0	10	
Nickel	0.6507	0.5574	150.0	150.3	ug/L	0	10	
Potassium	0.7926	0.5208	15000	15000	ug/L	0	10	
Selenium	0.0470	0.0317	150.0	153.6	ug/L	2	10	
Silver	1.4929	1.3973	150.0	147.4	ug/L	-2	10	
Sodium	0.9213	0.8525	15000	15110	ug/L	1	10	
Thallium	0.5340	0.5097	150.0	142.3	ug/L	-5	10	
Vanadium	2.6554	2.3327	150.0	153.0	ug/L	2	10	
Zinc	0.7501	0.3714	150.0	151.0	ug/L	1	10	

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Lithium	598584	595513	-0.51
Scandium	295512	294230	-0.43
Germanium	83286	78504	-5.74
Indium	492140	431953	-12.23
Bismuth	393607	364787	-7.32

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438077 File : c2213077 Time : 22-MAR-2006 20:26
Cal : 56117438001 Caldate: 22-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3095	0.7902	150.0	167.5	ug/L	**12**	10	c+ ***
Antimony	0.2128	0.1666	150.0	143.4	ug/L	-4	10	
Arsenic	0.3858	0.3416	150.0	150.7	ug/L	0	10	
Barium	0.0800	0.0742	150.0	142.1	ug/L	-5	10	
Beryllium	0.1021	0.1077	150.0	158.8	ug/L	6	10	
Cadmium	0.3928	0.2809	150.0	143.4	ug/L	-4	10	
Calcium	0.0164	0.0148	15000	15000	ug/L	0	10	
Chromium	2.9665	1.9926	150.0	151.3	ug/L	1	10	
Cobalt	2.6328	2.5083	150.0	144.8	ug/L	-3	10	
Copper	0.8429	0.6618	150.0	148.6	ug/L	-1	10	
Iron	0.0716	0.0598	15000	14900	ug/L	-1	10	
Lead	0.7964	0.7224	150.0	140.8	ug/L	-6	10	
Magnesium	0.0856	0.0864	15000	15530	ug/L	4	10	
Manganese	3.1383	2.6647	150.0	145.9	ug/L	-3	10	
Molybdenum	0.6378	0.6137	150.0	148.0	ug/L	-1	10	
Nickel	0.6507	0.5489	150.0	148.0	ug/L	-1	10	
Potassium	0.7926	0.5396	15000	15540	ug/L	4	10	
Selenium	0.0470	0.0317	150.0	153.3	ug/L	2	10	
Silver	1.4929	1.3629	150.0	143.7	ug/L	-4	10	
Sodium	0.9213	0.8708	15000	15440	ug/L	3	10	
Thallium	0.5340	0.5008	150.0	139.9	ug/L	-7	10	
Vanadium	2.6554	2.3239	150.0	152.5	ug/L	2	10	
Zinc	0.7501	0.3623	150.0	147.3	ug/L	-2	10	

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Lithium	598584	647102	8.11
Scandium	295512	318280	7.70
Germanium	83286	79856	-4.12
Indium	492140	429316	-12.77
Bismuth	393607	354086	-10.04

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438094 File : c2213094 Time : 22-MAR-2006 22:01
Cal : 56117438001 Caldate: 22-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3095	0.7486	150.0	158.5	ug/L	6	10	
Antimony	0.2128	0.1667	150.0	143.5	ug/L	-4	10	
Arsenic	0.3858	0.3379	150.0	149.1	ug/L	-1	10	
Barium	0.0800	0.0740	150.0	141.8	ug/L	-5	10	
Beryllium	0.1021	0.1099	150.0	162.0	ug/L	8	10	
Cadmium	0.3928	0.2777	150.0	141.7	ug/L	-6	10	
Calcium	0.0164	0.0150	15000	15160	ug/L	1	10	
Chromium	2.9665	1.9986	150.0	151.8	ug/L	1	10	
Cobalt	2.6328	2.4959	150.0	144.0	ug/L	-4	10	
Copper	0.8429	0.6578	150.0	147.7	ug/L	-2	10	
Iron	0.0716	0.0596	15000	14850	ug/L	-1	10	
Lead	0.7964	0.7153	150.0	139.4	ug/L	-7	10	
Magnesium	0.0856	0.0865	15000	15540	ug/L	4	10	
Manganese	3.1383	2.6471	150.0	144.9	ug/L	-3	10	
Molybdenum	0.6378	0.6090	150.0	146.9	ug/L	-2	10	
Nickel	0.6507	0.5510	150.0	148.6	ug/L	-1	10	
Potassium	0.7926	0.5582	15000	16080	ug/L	7	10	
Selenium	0.0470	0.0311	150.0	150.7	ug/L	0	10	
Silver	1.4929	1.3631	150.0	143.8	ug/L	-4	10	
Sodium	0.9213	0.8639	15000	15310	ug/L	2	10	
Thallium	0.5340	0.4926	150.0	137.6	ug/L	-8	10	
Vanadium	2.6554	2.3414	150.0	153.6	ug/L	2	10	
Zinc	0.7501	0.3637	150.0	147.8	ug/L	-1	10	

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Lithium	598584	626907	4.73
Scandium	295512	309639	4.78
Germanium	83286	77117	-7.41
Indium	492140	411816	-16.32
Bismuth	393607	347198	-11.79

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438109 File : c2213109 Time : 22-MAR-2006 23:24
Cal : 56117438001 Caldate: 22-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3095	0.7596	150.0	160.9	ug/L	7	10	
Antimony	0.2128	0.1668	150.0	143.5	ug/L	-4	10	
Arsenic	0.3858	0.3412	150.0	150.6	ug/L	0	10	
Barium	0.0800	0.0731	150.0	140.1	ug/L	-7	10	
Beryllium	0.1021	0.1083	150.0	159.7	ug/L	6	10	
Cadmium	0.3928	0.2783	150.0	142.0	ug/L	-5	10	
Calcium	0.0164	0.0151	15000	15230	ug/L	2	10	
Chromium	2.9665	1.9854	150.0	150.8	ug/L	1	10	
Cobalt	2.6328	2.4632	150.0	142.2	ug/L	-5	10	
Copper	0.8429	0.6538	150.0	146.8	ug/L	-2	10	
Iron	0.0716	0.0591	15000	14710	ug/L	-2	10	
Lead	0.7964	0.7244	150.0	141.2	ug/L	-6	10	
Magnesium	0.0856	0.0858	15000	15410	ug/L	3	10	
Manganese	3.1383	2.6296	150.0	144.0	ug/L	-4	10	
Molybdenum	0.6378	0.6048	150.0	145.9	ug/L	-3	10	
Nickel	0.6507	0.5445	150.0	146.8	ug/L	-2	10	
Potassium	0.7926	0.5569	15000	16040	ug/L	7	10	
Selenium	0.0470	0.0317	150.0	153.7	ug/L	2	10	
Silver	1.4929	1.3404	150.0	141.4	ug/L	-6	10	
Sodium	0.9213	0.8493	15000	15050	ug/L	0	10	
Thallium	0.5340	0.4925	150.0	137.5	ug/L	-8	10	
Vanadium	2.6554	2.3181	150.0	152.1	ug/L	1	10	
Zinc	0.7501	0.3608	150.0	146.7	ug/L	-2	10	

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Lithium	598584	647404	8.16
Scandium	295512	312978	5.91
Germanium	83286	76828	-7.75
Indium	492140	409360	-16.82
Bismuth	393607	338219	-14.07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438124 File : c2213124 Time : 23-MAR-2006 00:48
Cal : 56117438001 Caldate: 22-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3095	0.7610	150.0	161.2	ug/L	7	10	
Antimony	0.2128	0.1670	150.0	143.7	ug/L	-4	10	
Arsenic	0.3858	0.3387	150.0	149.4	ug/L	0	10	
Barium	0.0800	0.0732	150.0	140.2	ug/L	-7	10	
Beryllium	0.1021	0.1109	150.0	163.5	ug/L	9	10	
Cadmium	0.3928	0.2761	150.0	140.9	ug/L	-6	10	
Calcium	0.0164	0.0152	15000	15330	ug/L	2	10	
Chromium	2.9665	1.9911	150.0	151.2	ug/L	1	10	
Cobalt	2.6328	2.4828	150.0	143.3	ug/L	-4	10	
Copper	0.8429	0.6507	150.0	146.1	ug/L	-3	10	
Iron	0.0716	0.0595	15000	14830	ug/L	-1	10	
Lead	0.7964	0.7299	150.0	142.3	ug/L	-5	10	
Magnesium	0.0856	0.0869	15000	15610	ug/L	4	10	
Manganese	3.1383	2.6193	150.0	143.4	ug/L	-4	10	
Molybdenum	0.6378	0.6055	150.0	146.0	ug/L	-3	10	
Nickel	0.6507	0.5487	150.0	148.0	ug/L	-1	10	
Potassium	0.7926	0.5628	15000	16210	ug/L	8	10	
Selenium	0.0470	0.0311	150.0	150.7	ug/L	0	10	
Silver	1.4929	1.3319	150.0	140.5	ug/L	-6	10	
Sodium	0.9213	0.8573	15000	15200	ug/L	1	10	
Thallium	0.5340	0.4963	150.0	138.6	ug/L	-8	10	
Vanadium	2.6554	2.3293	150.0	152.8	ug/L	2	10	
Zinc	0.7501	0.3568	150.0	145.0	ug/L	-3	10	

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Lithium	598584	634413	5.99
Scandium	295512	311300	5.34
Germanium	83286	75727	-9.08
Indium	492140	402216	-18.27
Bismuth	393607	328790	-16.47

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438130 File : c2213130 Time : 23-MAR-2006 01:22
Cal : 56117438001 Caldate: 22-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3095	0.7725	150.0	163.6	ug/L	9	10	
Antimony	0.2128	0.1678	150.0	144.4	ug/L	-4	10	
Arsenic	0.3858	0.3403	150.0	150.2	ug/L	0	10	
Barium	0.0800	0.0739	150.0	141.6	ug/L	-6	10	
Beryllium	0.1021	0.1105	150.0	162.9	ug/L	9	10	
Cadmium	0.3928	0.2811	150.0	143.4	ug/L	-4	10	
Calcium	0.0164	0.0153	15000	15440	ug/L	3	10	
Chromium	2.9665	1.9992	150.0	151.8	ug/L	1	10	
Cobalt	2.6328	2.4756	150.0	142.9	ug/L	-5	10	
Copper	0.8429	0.6526	150.0	146.5	ug/L	-2	10	
Iron	0.0716	0.0598	15000	14900	ug/L	-1	10	
Lead	0.7964	0.7250	150.0	141.3	ug/L	-6	10	
Magnesium	0.0856	0.0887	15000	15930	ug/L	6	10	
Manganese	3.1383	2.6364	150.0	144.4	ug/L	-4	10	
Molybdenum	0.6378	0.6130	150.0	147.9	ug/L	-1	10	
Nickel	0.6507	0.5453	150.0	147.1	ug/L	-2	10	
Potassium	0.7926	0.5705	15000	16430	ug/L	10	10	
Selenium	0.0470	0.0311	150.0	150.4	ug/L	0	10	
Silver	1.4929	1.3564	150.0	143.1	ug/L	-5	10	
Sodium	0.9213	0.8720	15000	15460	ug/L	3	10	
Thallium	0.5340	0.4880	150.0	136.3	ug/L	-9	10	
Vanadium	2.6554	2.3328	150.0	153.0	ug/L	2	10	
Zinc	0.7501	0.3595	150.0	146.1	ug/L	-3	10	

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Lithium	598584	623448	4.15
Scandium	295512	302531	2.38
Germanium	83286	74398	-10.67
Indium	492140	395127	-19.71
Bismuth	393607	331638	-15.74

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438138 File : c2213138 Time : 23-MAR-2006 02:06
Cal : 56117438001 Caldate: 22-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3095	0.7712	150.0	163.4	ug/L	9	10	
Antimony	0.2128	0.1663	150.0	143.1	ug/L	-5	10	
Arsenic	0.3858	0.3394	150.0	149.8	ug/L	0	10	
Barium	0.0800	0.0726	150.0	139.1	ug/L	-7	10	
Beryllium	0.1021	0.1102	150.0	162.4	ug/L	8	10	
Cadmium	0.3928	0.2757	150.0	140.7	ug/L	-6	10	
Calcium	0.0164	0.0151	15000	15230	ug/L	2	10	
Chromium	2.9665	2.0219	150.0	153.6	ug/L	2	10	
Cobalt	2.6328	2.4646	150.0	142.2	ug/L	-5	10	
Copper	0.8429	0.6559	150.0	147.3	ug/L	-2	10	
Iron	0.0716	0.0600	15000	14950	ug/L	0	10	
Lead	0.7964	0.7208	150.0	140.5	ug/L	-6	10	
Magnesium	0.0856	0.0892	15000	16030	ug/L	7	10	
Manganese	3.1383	2.6311	150.0	144.1	ug/L	-4	10	
Molybdenum	0.6378	0.6031	150.0	145.5	ug/L	-3	10	
Nickel	0.6507	0.5468	150.0	147.5	ug/L	-2	10	
Potassium	0.7926	0.5655	15000	16290	ug/L	9	10	
Selenium	0.0470	0.0314	150.0	152.0	ug/L	1	10	
Silver	1.4929	1.3356	150.0	140.9	ug/L	-6	10	
Sodium	0.9213	0.8671	15000	15370	ug/L	2	10	
Thallium	0.5340	0.4827	150.0	134.8	ug/L	-10	10	
Vanadium	2.6554	2.3674	150.0	155.3	ug/L	4	10	
Zinc	0.7501	0.3586	150.0	145.8	ug/L	-3	10	

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Lithium	598584	620833	3.72
Scandium	295512	308264	4.32
Germanium	83286	75087	-9.84
Indium	492140	397123	-19.31
Bismuth	393607	333887	-15.17

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438012 File : c2213012 Time : 22-MAR-2006 14:19
Cal : 56117438001 Caldate: 22-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	[11.16]	50.00	2.123	ug/L	!ib
Antimony	[0.2387]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	[0.06668]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.03873]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	[38.75]	50.00	7.739	ug/L	!ib
Chromium	[0.06144]	0.5000	0.03860	ug/L	!ib
Cobalt	[0.06641]	0.2500	0.008548	ug/L	!ib
Copper	[0.05819]	0.5000	0.04426	ug/L	!ib
Iron	[30.28]	50.00	6.980	ug/L	!ib
Lead	[0.03309]	0.2500	0.005283	ug/L	!ib
Magnesium	[19.69]	50.00	3.054	ug/L	!ib
Manganese	[0.08458]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.08869]	0.2500	0.03982	ug/L	!ib
Potassium	[18.45]	50.00	6.379	ug/L	!ib
Selenium	[0.1896]	0.5000	0.1891	ug/L	!ib
Silver	[0.05032]	0.2500	0.01266	ug/L	!ib
Sodium	[38.98]	50.00	9.919	ug/L	!ib
Thallium	[0.1190]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	[0.1551]	1.000	0.09577	ug/L	!ib

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Lithium	598584	640733	7.04
Scandium	295512	306750	3.80
Germanium	83286	84386	1.32
Indium	492140	483703	-1.71
Bismuth	393607	384538	-2.30

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438024 File : c2213024 Time : 22-MAR-2006 15:29
Cal : 56117438001 Caldate: 22-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.09810]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.05586]	0.5000	0.03860	ug/L	!ib
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.03751]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Lithium	598584	631624	5.52
Scandium	295512	299993	1.52
Germanium	83286	81064	-2.67
Indium	492140	459610	-6.61
Bismuth	393607	376178	-4.43

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438039 File : c2213039 Time : 22-MAR-2006 16:53
Cal : 56117438001 Caldate: 22-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.08456]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.3377]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1360]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Lithium	598584	658182	9.96
Scandium	295512	305179	3.27
Germanium	83286	80467	-3.38
Indium	492140	449283	-8.71
Bismuth	393607	371193	-5.69

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438055 File : c2213055 Time : 22-MAR-2006 18:22
Cal : 56117438001 Caldate: 22-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	[0.1035]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	[18.85]	50.00	9.919	ug/L	!ib
Thallium	[0.02696]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Lithium	598584	618294	3.29
Scandium	295512	293929	-0.54
Germanium	83286	78260	-6.03
Indium	492140	447376	-9.10
Bismuth	393607	365872	-7.05

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438065 File : c2213065 Time : 22-MAR-2006 19:19
Cal : 56117438001 Caldate: 22-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.04750]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.009077]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	[4.355]	50.00	3.054	ug/L	!ib
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	[27.20]	50.00	9.919	ug/L	!ib
Thallium	[0.06451]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Lithium	598584	612257	2.28
Scandium	295512	290053	-1.85
Germanium	83286	78220	-6.08
Indium	492140	449442	-8.68
Bismuth	393607	369807	-6.05

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438080 File : c2213080 Time : 22-MAR-2006 20:42
Cal : 56117438001 Caldate: 22-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.04195]	0.5000	0.03860	ug/L	!ib
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	[5.204]	50.00	3.054	ug/L	!ib
Manganese	[0.02758]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	[16.65]	50.00	9.919	ug/L	!ib
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Lithium	598584	650177	8.62
Scandium	295512	312694	5.81
Germanium	83286	79544	-4.49
Indium	492140	443603	-9.86
Bismuth	393607	354536	-9.93

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438097 File : c2213097 Time : 22-MAR-2006 22:17
Cal : 56117438001 Caldate: 22-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.04241]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Lithium	598584	639262	6.80
Scandium	295512	309209	4.63
Germanium	83286	76156	-8.56
Indium	492140	422346	-14.18
Bismuth	393607	354318	-9.98

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438111 File : c2213111 Time : 22-MAR-2006 23:35
Cal : 56117438001 Caldate: 22-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.05960]	0.5000	0.03860	ug/L	!ib
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.05831]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Lithium	598584	647562	8.18
Scandium	295512	310184	4.96
Germanium	83286	76094	-8.64
Indium	492140	420670	-14.52
Bismuth	393607	346630	-11.93

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438126 File : c2213126 Time : 23-MAR-2006 00:59
Cal : 56117438001 Caldate: 22-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.05889]	0.5000	0.03860	ug/L	!ib
Cobalt	[0.008590]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.03717]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	[6.864]	50.00	6.379	ug/L	!ib
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Lithium	598584	639449	6.83
Scandium	295512	307510	4.06
Germanium	83286	74844	-10.14
Indium	492140	414268	-15.82
Bismuth	393607	344521	-12.47

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438132 File : c2213132 Time : 23-MAR-2006 01:33
Cal : 56117438001 Caldate: 22-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.09551]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	[0.05069]	0.2500	0.04566	ug/L	!ib
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.03946]	0.5000	0.03860	ug/L	!ib
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	[7.154]	50.00	6.379	ug/L	!ib
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.03099]	0.5000	0.02100	ug/L	!ib
Vanadium	[0.1201]	1.000	0.08283	ug/L	!ib
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Lithium	598584	645839	7.89
Scandium	295512	306651	3.77
Germanium	83286	75156	-9.76
Indium	492140	413919	-15.89
Bismuth	393607	334118	-15.11

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438140 File : c2213140 Time : 23-MAR-2006 02:17
Cal : 56117438001 Caldate: 22-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.04478]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	[7.846]	50.00	6.379	ug/L	!ib
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.02880]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Lithium	598584	623473	4.16
Scandium	295512	303798	2.80
Germanium	83286	74396	-10.67
Indium	492140	412824	-16.12
Bismuth	393607	336519	-14.50

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438013 File : c2213013 Time : 22-MAR-2006 14:25
Cal : 56117438001 Caldate: 22-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.507	0.2500	ug/L	
Arsenic	0.6674	0.5000	ug/L	
Barium	1.156	0.2500	ug/L	
Beryllium	[0.04816]	0.2500	ug/L	
Cadmium	[0]	0.2500	ug/L	
Chromium	1.888	0.5000	ug/L	
Cobalt	2.963	0.2500	ug/L	
Copper	2.010	0.5000	ug/L	
Lead	1.141	0.2500	ug/L	
Manganese	1.119	0.2500	ug/L	
Nickel	2.031	0.2500	ug/L	
Selenium	[0.3772]	0.5000	ug/L	
Silver	[0.2096]	0.2500	ug/L	
Thallium	[0.09653]	0.5000	ug/L	
Vanadium	[0.4702]	1.000	ug/L	
Zinc	2.502	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	88800	ug/L	89
Calcium	300000	290000	ug/L	97
Iron	250000	244700	ug/L	98
Magnesium	100000	93150	ug/L	93
Molybdenum	2000	2063	ug/L	103
Potassium	100000	94990	ug/L	95
Sodium	250000	236200	ug/L	94

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Lithium	598584	550106	-8.10
Scandium	295512	288456	-2.39
Germanium	83286	76802	-7.79
Indium	492140	408836	-16.93
Bismuth	393607	325430	-17.32

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438015 File : c2213015 Time : 22-MAR-2006 14:39
Cal : 56117438001 Caldate: 22-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	84430	ug/L	-16		
Arsenic	100.0	101.8	ug/L	2	20	
Cadmium	100.0	86.57	ug/L	-13	20	
Calcium	300000	278300	ug/L	-7		
Chromium	200.0	218.5	ug/L	9	20	
Cobalt	200.0	206.7	ug/L	3	20	
Copper	200.0	188.1	ug/L	-6	20	
Iron	250000	237700	ug/L	-5		
Magnesium	100000	88290	ug/L	-12		
Manganese	200.0	220.7	ug/L	10	20	
Molybdenum	2000	1969	ug/L	-2		
Nickel	200.0	199.4	ug/L	0	20	
Potassium	100000	90250	ug/L	-10		
Selenium	100.0	91.93	ug/L	-8	20	
Silver	50.00	47.09	ug/L	-6	20	
Sodium	250000	222800	ug/L	-11		
Vanadium	200.0	231.1	ug/L	16	20	
Zinc	100.0	91.86	ug/L	-8	20	

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Scandium	295512	281689	-4.68
Germanium	83286	74474	-10.58

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438059 File : c2213059 Time : 22-MAR-2006 18:46
Cal : 56117438001 Caldate: 22-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.235	0.2500	ug/L	
Arsenic	0.5894	0.5000	ug/L	
Barium	1.093	0.2500	ug/L	
Beryllium	[0.06161]	0.2500	ug/L	
Cadmium	[0.05644]	0.2500	ug/L	
Chromium	1.805	0.5000	ug/L	
Cobalt	2.867	0.2500	ug/L	
Copper	2.024	0.5000	ug/L	
Lead	1.173	0.2500	ug/L	
Manganese	1.096	0.2500	ug/L	
Nickel	2.014	0.2500	ug/L	
Selenium	0.7279	0.5000	ug/L	
Silver	[0.1955]	0.2500	ug/L	
Thallium	1.178	0.5000	ug/L	
Vanadium	[0.4437]	1.000	ug/L	
Zinc	2.586	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	92770	ug/L	93
Calcium	300000	291900	ug/L	97
Iron	250000	241500	ug/L	97
Magnesium	100000	96240	ug/L	96
Molybdenum	2000	2065	ug/L	103
Potassium	100000	97600	ug/L	98
Sodium	250000	240500	ug/L	96

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Lithium	598584	529072	-11.61
Scandium	295512	269416	-8.83
Germanium	83286	71844	-13.74
Indium	492140	380124	-22.76
Bismuth	393607	306971	-22.01

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438060 File : c2213060 Time : 22-MAR-2006 18:51
Cal : 56117438001 Caldate: 22-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	88880	ug/L	-11		
Arsenic	100.0	100.2	ug/L	0	20	
Cadmium	100.0	85.12	ug/L	-15	20	
Calcium	300000	284500	ug/L	-5		
Chromium	200.0	215.5	ug/L	8	20	
Cobalt	200.0	199.5	ug/L	0	20	
Copper	200.0	184.1	ug/L	-8	20	
Iron	250000	232300	ug/L	-7		
Magnesium	100000	93120	ug/L	-7		
Manganese	200.0	217.1	ug/L	9	20	
Molybdenum	2000	1981	ug/L	-1		
Nickel	200.0	195.3	ug/L	-2	20	
Potassium	100000	93870	ug/L	-6		
Selenium	100.0	91.12	ug/L	-9	20	
Silver	50.00	46.31	ug/L	-7	20	
Sodium	250000	233300	ug/L	-7		
Vanadium	200.0	224.0	ug/L	12	20	
Zinc	100.0	89.92	ug/L	-10	20	

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Scandium	295512	272061	-7.94
Germanium	83286	71637	-13.99

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438086 File : c2213086 Time : 22-MAR-2006 21:16
Cal : 56117438001 Caldate: 22-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.169	0.2500	ug/L	
Arsenic	0.6658	0.5000	ug/L	
Barium	0.9798	0.2500	ug/L	
Beryllium	[0.01135]	0.2500	ug/L	
Cadmium	[0]	0.2500	ug/L	
Chromium	1.699	0.5000	ug/L	
Cobalt	2.775	0.2500	ug/L	
Copper	1.981	0.5000	ug/L	
Lead	1.100	0.2500	ug/L	
Manganese	1.126	0.2500	ug/L	
Nickel	2.063	0.2500	ug/L	
Selenium	0.5723	0.5000	ug/L	
Silver	[0.1325]	0.2500	ug/L	
Thallium	[0]	0.5000	ug/L	
Vanadium	[0.4325]	1.000	ug/L	
Zinc	2.275	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	96390	ug/L	96
Calcium	300000	294900	ug/L	98
Iron	250000	233300	ug/L	93
Magnesium	100000	100000	ug/L	100
Molybdenum	2000	2005	ug/L	100
Potassium	100000	103000	ug/L	103
Sodium	250000	245700	ug/L	98

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Lithium	598584	558588	-6.68
Scandium	295512	283820	-3.96
Germanium	83286	71863	-13.72
Indium	492140	359760	-26.90
Bismuth	393607	286301	-27.26

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438087 File : c2213087 Time : 22-MAR-2006 21:22
Cal : 56117438001 Caldate: 22-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	93160	ug/L	-7		
Arsenic	100.0	99.05	ug/L	-1	20	
Cadmium	100.0	80.25	ug/L	-20	20	
Calcium	300000	283100	ug/L	-6		
Chromium	200.0	211.6	ug/L	6	20	
Cobalt	200.0	198.0	ug/L	-1	20	
Copper	200.0	183.4	ug/L	-8	20	
Iron	250000	224000	ug/L	-10		
Magnesium	100000	96630	ug/L	-3		
Manganese	200.0	202.7	ug/L	1	20	
Molybdenum	2000	1930	ug/L	-4		
Nickel	200.0	191.4	ug/L	-4	20	
Potassium	100000	98000	ug/L	-2		
Selenium	100.0	90.22	ug/L	-10	20	
Silver	50.00	44.04	ug/L	-12	20	
Sodium	250000	233900	ug/L	-6		
Vanadium	200.0	229.7	ug/L	15	20	
Zinc	100.0	87.84	ug/L	-12	20	

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Scandium	295512	291277	-1.43
Germanium	83286	71939	-13.62

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438134 File : c2213134 Time : 23-MAR-2006 01:44
Cal : 56117438001 Caldate: 22-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.216	0.2500	ug/L	
Arsenic	[0.4611]	0.5000	ug/L	
Barium	1.003	0.2500	ug/L	
Beryllium	[0.01036]	0.2500	ug/L	
Cadmium	[0.1595]	0.2500	ug/L	
Chromium	1.710	0.5000	ug/L	
Cobalt	2.731	0.2500	ug/L	
Copper	2.022	0.5000	ug/L	
Lead	1.074	0.2500	ug/L	
Manganese	0.9899	0.2500	ug/L	
Nickel	2.092	0.2500	ug/L	
Selenium	[0.08349]	0.5000	ug/L	
Silver	[0.1331]	0.2500	ug/L	
Thallium	[0.01396]	0.5000	ug/L	
Vanadium	[0.3033]	1.000	ug/L	
Zinc	2.312	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	96680	ug/L	97
Calcium	300000	296300	ug/L	99
Iron	250000	230800	ug/L	92
Magnesium	100000	100400	ug/L	100
Molybdenum	2000	2034	ug/L	102
Potassium	100000	105700	ug/L	106
Sodium	250000	245500	ug/L	98

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Lithium	598584	524308	-12.41
Scandium	295512	272513	-7.78
Germanium	83286	67031	-19.52
Indium	492140	335454	-31.84
Bismuth	393607	270010	-31.40

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56117438135 File : c2213135 Time : 23-MAR-2006 01:50
Cal : 56117438001 Caldate: 22-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	95830	ug/L	-4		
Arsenic	100.0	99.45	ug/L	-1	20	
Cadmium	100.0	81.01	ug/L	-19	20	
Calcium	300000	286100	ug/L	-5		
Chromium	200.0	211.5	ug/L	6	20	
Cobalt	200.0	193.6	ug/L	-3	20	
Copper	200.0	180.6	ug/L	-10	20	
Iron	250000	224400	ug/L	-10		
Magnesium	100000	99490	ug/L	-1		
Manganese	200.0	200.5	ug/L	0	20	
Molybdenum	2000	1955	ug/L	-2		
Nickel	200.0	190.9	ug/L	-5	20	
Potassium	100000	101900	ug/L	2		
Selenium	100.0	89.21	ug/L	-11	20	
Silver	50.00	43.84	ug/L	-12	20	
Sodium	250000	239500	ug/L	-4		
Vanadium	200.0	219.2	ug/L	10	20	
Zinc	100.0.	85.98	ug/L	-14	20	

ISTD (ICALBLK c2213003)	ICALBLK Abund	Abund	%Drift
Scandium	295512	277173	-6.21
Germanium	83286	68508	-17.74

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56117438 Instrument: MET05 Agilent ICP-MS Begun: 22-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
040	c2213040	MSD	QC330966	111184	Water	22-MAR-2006 16:58	2.0	1.0			1	2	
042	c2213042	BLANK	QC332478	111546	Filtra	22-MAR-2006 17:09	1.0	1.0			1	2	
043	c2213043	BS	QC332479	111546	Filtra	22-MAR-2006 17:15	1.0	1.0			1	2	
044	c2213044	BSD	QC332480	111546	Filtra	22-MAR-2006 17:21	1.0	1.0			1	2	
045	c2213045	MSS	185691-001	111546	Filtra	22-MAR-2006 17:26	5.0	1.0	4		1	2	3:MG=112040
046	c2213046	SER	QC332483	111546	Filtra	22-MAR-2006 17:32	25.0	1.0			1	2	2:NA=196800
047	c2213047	MSS	185691-001	111546	Filtra	22-MAR-2006 17:38	5.0	1.0	3		1	2	3:MG=110000
048	c2213048	SAMPLE	185692-001	111546	Filtra	22-MAR-2006 17:43	5.0	1.0			1	2	3:MG=109300
049	c2213049	MS	QC332481	111546	Filtra	22-MAR-2006 17:49	5.0	1.0			1	2	3:MG=111460
050	c2213050	MSD	QC332482	111546	Filtra	22-MAR-2006 17:54	5.0	1.0			1	2	3:MG=114780
052	c2213052	CCV				22-MAR-2006 18:05	1.0	1.0			1	13 2	
055	c2213055	CCB				22-MAR-2006 18:22	1.0	1.0			1	2	
056	c2213056	TUN				22-MAR-2006 18:28	1.0	1.0				1	
057	c2213057	PDS	QC332484	111546	Filtra	22-MAR-2006 18:34	5.0	1.0		1	1	12 2	3:MG=120000
058	c2213058	PDS	QC331218	111241	Filtra	22-MAR-2006 18:40	1.0	1.0			1	12 2	
059	c2213059	ICSA				22-MAR-2006 18:46	1.0	1.0			1	10 2	7:CA=291900
060	c2213060	ICSAB				22-MAR-2006 18:51	1.0	1.0			1	11 2	10:CA=284500
063	c2213063	CCV				22-MAR-2006 19:08	1.0	1.0			1	13 2	
065	c2213065	CCB				22-MAR-2006 19:19	1.0	1.0			1	2	
066	c2213066	SAMPLE	185381-002	111241	Filtra	22-MAR-2006 19:24	1.0	1.0			1	2	
067	c2213067	SAMPLE	185381-003	111241	Filtra	22-MAR-2006 19:30	1.0	1.0	4		1	2	4:NA=90000.0
068	c2213068	SAMPLE	185381-004	111241	Filtra	22-MAR-2006 19:36	1.0	1.0	3		1	2	3:NA=49210.0
069	c2213069	SAMPLE	185381-005	111241	Filtra	22-MAR-2006 19:41	1.0	1.0	5		1	2	6:NA=83100.0
070	c2213070	SAMPLE	185381-006	111241	Filtra	22-MAR-2006 19:47	1.0	1.0	5		1	2	6:NA=85670.0
071	c2213071	SAMPLE	185381-007	111241	Filtra	22-MAR-2006 19:52	1.0	1.0	3		1	2	3:NA=55050.0
072	c2213072	SAMPLE	185381-008	111241	Filtra	22-MAR-2006 19:58	1.0	1.0	3		1	2	3:MG=410500
073	c2213073	SAMPLE	185381-009	111241	Filtra	22-MAR-2006 20:03	1.0	1.0	3		1	2	3:MG=386700
074	c2213074	SAMPLE	185381-010	111241	Filtra	22-MAR-2006 20:09	1.0	1.0	3		1	2	4:MG=210200
075	c2213075	SAMPLE	185381-015	111241	Filtra	22-MAR-2006 20:14	1.0	1.0	4		1	2	4:NA=62160.0
077	c2213077	CCV				22-MAR-2006 20:26	1.0	1.0	1		1	13 2	
080	c2213080	CCB				22-MAR-2006 20:42	1.0	1.0			1	2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2309 13=S2897

Analyst: [signature] Date: 3/22/6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56117438 Instrument: MET05 Agilent ICP-MS Begun: 22-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
081	c2213081	SAMPLE	185381-016	111241	Filtra	22-MAR-2006 20:48	1.0	1.0	4		1	2	4:NA=77380.0
082	c2213082	SAMPLE	185381-017	111241	Filtra	22-MAR-2006 20:54	1.0	1.0	4		1	2	4:NA=87840.0
083	c2213083	SAMPLE	185381-018	111241	Filtra	22-MAR-2006 20:59	1.0	1.0	4		1	2	4:NA=88680.0
084	c2213084	SAMPLE	185381-019	111241	Filtra	22-MAR-2006 21:05	1.0	1.0	3		1	2	3:NA=72830.0
085	c2213085	SAMPLE	185381-020	111241	Filtra	22-MAR-2006 21:11	1.0	1.0	3		1	2	3:NA=67290.0
086	c2213086	ICSA				22-MAR-2006 21:16	1.0	1.0			1	10 2	7:CA=294900
087	c2213087	ICSAB				22-MAR-2006 21:22	1.0	1.0			1	11 2	10:CA=283100
089	c2213089	X	rinse	111415		22-MAR-2006 21:33	1.0					2	
090	c2213090	BLANK	QC331846	111391	Filtra	22-MAR-2006 21:38	1.0	1.0			1	2	
091	c2213091	BS	QC331847	111391	Filtra	22-MAR-2006 21:44	1.0	1.0	1		1	2	
092	c2213092	BSD	QC331848	111391	Filtra	22-MAR-2006 21:49	1.0	1.0	1		1	2	
094	c2213094	CCV				22-MAR-2006 22:01	1.0	1.0			1	13 2	
097	c2213097	CCB				22-MAR-2006 22:17	1.0	1.0			1	2	
098	c2213098	MSS	185385-010	111391	Filtra	22-MAR-2006 22:23	1.0	1.0	3		1	2	3:NA=36560.0
099	c2213099	SER	QC331851	111391	Filtra	22-MAR-2006 22:28	5.0	1.0			1	2	
100	c2213100	MS	QC331849	111391	Filtra	22-MAR-2006 22:34	1.0	1.0	2		1	2	5:NA=47170.0
101	c2213101	MSD	QC331850	111391	Filtra	22-MAR-2006 22:40	1.0	1.0	1		1	2	4:NA=45570.0
102	c2213102	SAMPLE	185385-001	111391	Filtra	22-MAR-2006 22:45	1.0	1.0			1	2	1:NA=27180.0
103	c2213103	SAMPLE	185385-002	111391	Filtra	22-MAR-2006 22:51	1.0	1.0			1	2	1:NA=26020.0
104	c2213104	SAMPLE	185385-003	111391	Filtra	22-MAR-2006 22:56	1.0	1.0			1	2	2:NA=21070.0
105	c2213105	SAMPLE	185385-004	111391	Filtra	22-MAR-2006 23:02	1.0	1.0			1	2	2:NA=32440.0
106	c2213106	SAMPLE	185385-005	111391	Filtra	22-MAR-2006 23:07	1.0	1.0			1	2	1:NA=38310.0
107	c2213107	SAMPLE	185385-006	111391	Filtra	22-MAR-2006 23:13	1.0	1.0			1	2	1:NA=23150.0
109	c2213109	CCV				22-MAR-2006 23:24	1.0	1.0			1	13 2	
111	c2213111	CCB				22-MAR-2006 23:35	1.0	1.0			1	2	
113	c2213113	SAMPLE	185385-007	111391	Filtra	22-MAR-2006 23:47	1.0	1.0			1	2	1:NA=25380.0
114	c2213114	SAMPLE	185385-008	111391	Filtra	22-MAR-2006 23:52	1.0	1.0			1	2	1:NA=25800.0
115	c2213115	SAMPLE	185385-009	111391	Filtra	22-MAR-2006 23:58	1.0	1.0	1		1	2	6:CA=64740.0
116	c2213116	SAMPLE	185385-011	111391	Filtra	23-MAR-2006 00:03	1.0	1.0	1		1	2	1:NA=27080.0
117	c2213117	SAMPLE	185385-012	111391	Filtra	23-MAR-2006 00:09	1.0	1.0			1	2	2:NA=55150.0
118	c2213118	SAMPLE	185385-013	111391	Filtra	23-MAR-2006 00:15	1.0	1.0			1	2	2:NA=35450.0

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2309 13=S2897

Analyst: Melum Date: 3/22/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56117438 Instrument: MET05 Agilent ICP-MS Begun: 22-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
119	c2213119	SAMPLE	185385-014	111391	Filtra	23-MAR-2006 00:20	1.0	1.0			1	2	5:CA=102400
120	c2213120	SAMPLE	185385-015	111391	Filtra	23-MAR-2006 00:26	1.0	1.0			1	2	3:NA=46430.0
121	c2213121	SAMPLE	185385-016	111391	Filtra	23-MAR-2006 00:31	1.0	1.0			1	2	1:NA=25600.0
122	c2213122	SAMPLE	185385-017	111391	Filtra	23-MAR-2006 00:37	1.0	1.0	1		1	2	5:NA=65690.0
124	c2213124	CCV				23-MAR-2006 00:48	1.0	1.0			1	13 2	
126	c2213126	CCB				23-MAR-2006 00:59	1.0	1.0			1	2	
128	c2213128	SAMPLE	185385-018	111391	Filtra	23-MAR-2006 01:10	1.0	1.0			1	2	1:NA=26810.0
130	c2213130	CCV				23-MAR-2006 01:22	1.0	1.0			1	13 2	
132	c2213132	CCB				23-MAR-2006 01:33	1.0	1.0			1	2	
134	c2213134	ICSA				23-MAR-2006 01:44	1.0	1.0			1	10 2	7:CA=296300
135	c2213135	ICSAB				23-MAR-2006 01:50	1.0	1.0			1	11 2	10:CA=286100
138	c2213138	CCV				23-MAR-2006 02:06	1.0	1.0			1	13 2	
140	c2213140	CCB				23-MAR-2006 02:17	1.0	1.0			1	2	

347

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2309 13=S2897

Analyst: [signature] Date: 3/22/6

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56118726001
Units : ug/L

Date : 23-MAR-2006 10:58
X Axis : R

Reviewer: ---
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	c2310004	56118726004	CS1	23-MAR-2006 11:03	S2889
L2	c2310005	56118726005	CS2	23-MAR-2006 11:09	S2890
L3	c2310006	56118726006	CS3	23-MAR-2006 11:15	S2891
L4	c2310007	56118726007	CS4	23-MAR-2006 11:20	S2892
L5	c2310008	56118726008	CS5	23-MAR-2006 11:26	S2886
L6	c2310009	56118726009	CS6	23-MAR-2006 11:31	S2887

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		2.3768	1.7674	0.8675	0.7689	0.7818	BLNK	-0.6476	1.28815		1.3125	1.000	0.995	
Antimony	0.3017	0.2212	0.1921	0.1733	0.1696	0.1681	BLNK	-0.1770	5.94332		0.2043	1.000	0.995	
Arsenic		0.5652	0.3925	0.3575	0.3532	0.3508	BLNK	-0.1648	2.84984		0.4038	1.000	0.995	
Barium	0.0907	0.0729	0.0750	0.0720	0.0737	0.0749	BLNK	-0.0332	13.3918		0.0765	1.000	0.995	
Beryllium	0.1226	0.1271	0.1213	0.1299	0.1292	0.1293	BLNK	-0.0044	7.73568		0.1266	1.000	0.995	
Cadmium	0.6020	0.4610	0.3636	0.3171	0.2944	0.2863	BLNK	-0.2913	3.47850		0.3874	1.000	0.995	
Calcium		0.0192	0.0173	0.0152	0.0161	0.0156	BLNK	-12.504	63.7673		0.0167	1.000	0.995	
Chromium		5.0828	3.4399	2.0291	1.8986	1.9066	BLNK	-0.8190	0.52752		2.8714	1.000	0.995	348
Cobalt	2.6053	2.4273	2.3318	2.3280	2.3213	2.3551	BLNK	-0.0279	0.42592		2.3948	1.000	0.995	
Copper		1.0092	0.9703	0.7215	0.6744	0.6495	BLNK	-0.2072	1.52961		0.8050	1.000	0.995	
Iron		0.1009	0.0757	0.0542	0.0537	0.0522	BLNK	-45.959	19.1029		0.0673	1.000	0.995	
Lead	0.8464	0.7730	0.7721	0.7408	0.7896	0.7312	BLNK	-0.0385	1.34639		0.7755	0.999	0.995	
Magnesium		0.0894	0.0895	0.0951	0.0914	0.0885	BLNK	-0.5591	11.2264		0.0908	1.000	0.995	
Manganese	3.6797	3.0491	2.6525	2.4528	2.3928	2.4046	BLNK	-0.1042	0.41653		2.7719	1.000	0.995	
Molybdenum		0.6513	0.6581	0.6269	0.6335	0.6299	BLNK	-0.0139	1.58586		0.6400	1.000	0.995	
Nickel	0.8224	0.7095	0.6137	0.5450	0.5235	0.5146	BLNK	-0.1037	1.93746		0.6215	1.000	0.995	
Potassium		1.7295	1.1875	0.6887	0.6201	0.6146	BLNK	-84.195	1.63228		0.9681	1.000	0.995	
Selenium		0.0708	0.0474	0.0365	0.0330	0.0322	BLNK	-0.5249	30.9908		0.0440	1.000	0.995	
Silver	1.5286	1.4571	1.5131	1.4851	1.4528	1.4399	BLNK	-0.0129	0.69325		1.4794	1.000	0.995	
Sodium		1.0672	1.0642	0.8847	0.8775	0.8458	BLNK	-14.223	1.17447		0.9479	1.000	0.995	
Thallium		0.5612	0.5314	0.4926	0.5216	0.5260	BLNK	-0.0695	1.90529		0.5266	1.000	0.995	
Vanadium		4.0104	3.0659	2.2710	2.2371	2.3533	BLNK	-0.2733	0.42992		2.7875	0.999	0.995	
Zinc		1.1240	0.9098	0.4155	0.3546	0.3384	BLNK	-1.0894	2.94576		0.6284	0.999	0.995	

BLNK=Y=aX+[blank]

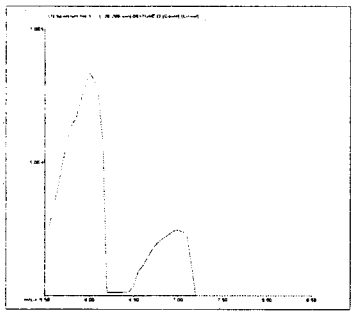
Instrument amount = a0 + response * a1 + response^2 * a2

6020 QC Tune Report

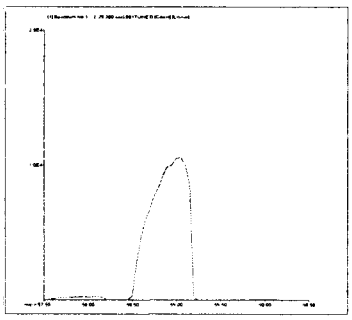
Data File: C:\ICPCHEM\1\DATA\06C2310b.B\001TUNE.D
Date Acquired: Mar 23 2006 10:46 am
Acq. Method: TN6020.M
Operator:
Sample Name: TUN,S2898
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

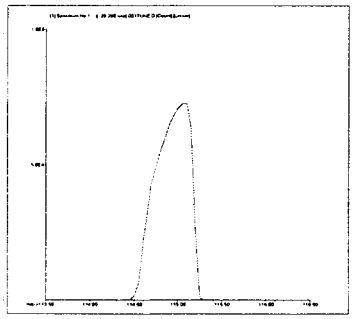
Element	Actual	Required	Flag
7 Li	1.84	5.00	
59 Co	1.97	5.00	
115 In	0.77	5.00	
205 Tl	1.23	5.00	



7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



115 In

Mass Calib.

Actual: 115.10

Required: 114.90 - 115.10

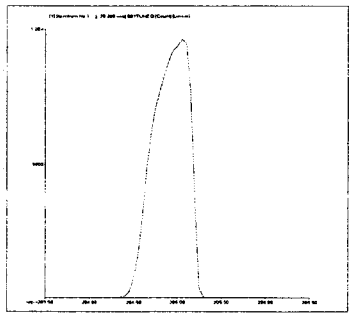
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



205 Tl

Mass Calib.

Actual: 205.05

Required: 204.90 - 205.10

Flag:

Peak Width

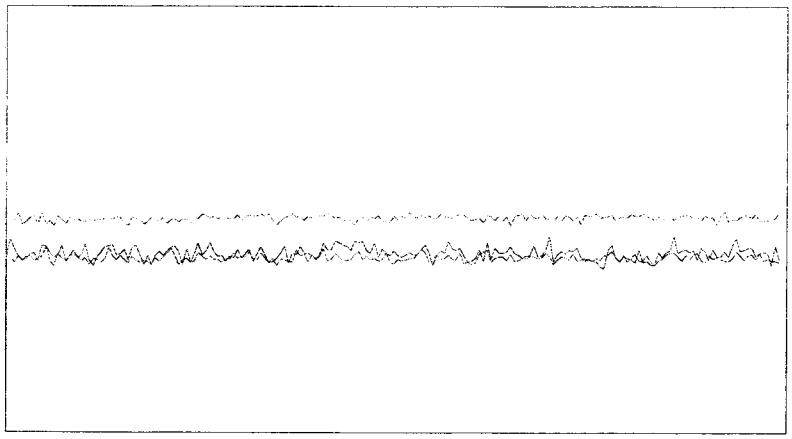
Actual: 0.60

Required: 0.90

Flag:

Tune Report

Tune File : Autotune.u



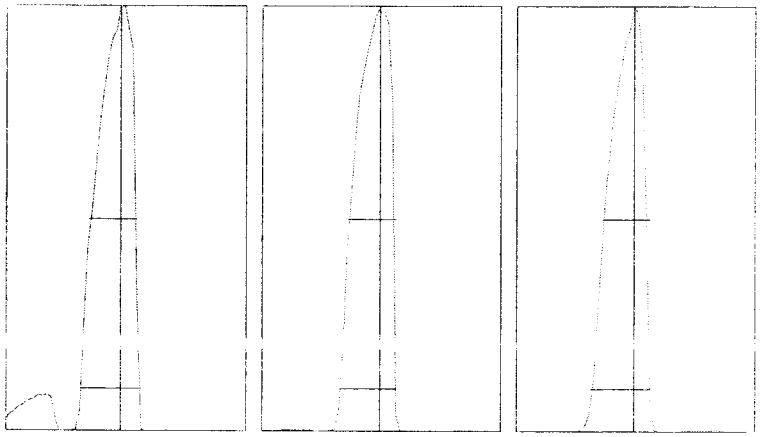
m/z:	7	89	205
Range:	50,000	50,000	20,000
Count:	20,224	19,893	10,347
Mean:	20908.9	20359.5	10030.7
RSD%:	3.62	2.15	1.45
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.51%
Doubly Charged:	70/140	1.22%

Background:

m/z:	7	89	205
Cps:	2.4	2.3	4.2



m/z:	7	89	205
Height:	20,599	20,218	10,176
Axis:	6.95	89.00	205.00
W-50%:	0.60	0.60	0.60
W-10%:	0.7500	0.700	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1210 W	Extract 1:	-156.2 V	AMU Gain:	129
RF Matching:	1.62 V	Extract 2:	-96 V	AMU Offset:	127
Smpl Depth:	7 mm	Einzel 1,3:	-66 V	Axis Gain:	0.9998
Torch-H:	0 mm	Einzel 2:	16 V	Axis Offset:	-0.07
Torch-V:	0.4 mm	Omega Bias:	-33 V	QP Bias:	1.5 V
Carrier Gas:	1.14 L/min	Omega (+):	1 V		
Makeup Gas:	0 L/min	Omega (-):	-6.7 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	7.1 V	Discriminator:	8.7 mV
PeriPump1:	0.1 rps	Plate Bias:	-12.5 V	Analog HV:	1760 V
PeriPump2:	--- rps			Pulse HV:	1200 V
S/C Temp:	2 degC				

Generated : Mar 23, 2006 09:43:51
Printed : Mar 23, 2006 09:43:57

P/A Factor Tuning Report

Acquired:Mar 23 2006 10:05 am

Mass[amu]	Element	P/A Factor
6	Li	0.070259
9	Be	0.078252
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.095239
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.099682
45	Sc	0.093990
51	V	0.098387
52	Cr	0.099989
53	Cr	Sensitivity too low
54	Fe	0.105710
55	Mn	0.102556
57	Fe	0.105607
59	Co	0.105783
60	Ni	Sensitivity too low
63	Cu	0.106943
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.103977
95	Mo	Sensitivity too low
98	Mo	0.102627
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.110732
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	0.110348
118	(In)	0.115538
121	Sb	Sensitivity too low
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.113734
166	Er	Sensitivity too low

```
    205        Tl    0.119834
    206      (Pb)  Sensitivity too low
    207      (Pb)  Sensitivity too low
    208        Pb    0.118658
    209        Bi  Sensitivity too low

===Detector Parameters===
  Discriminator: 8.7 mV
      Analog HV: 1760 V
       Pulse HV: 1200 V
```

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06C2310b.B\002BLNK.D\002BLNK.D#
Date Acquired: Mar 23 2006 10:52 am
Acq. Method: 60200111.M
Operator:
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update: Mar 23 2006 10:38 am
Sample Type: 6-Blank
Dilution Factor: 1.00

QC Elements

Element	Corr. Conc.	RSD(%)	Raw Conc.	High Limit	Flag
9 Be	0.00777 ppb	118.75	0.00777	1.00	
23 Na	-2.386 ppb	5.01	-2.386	1.00	
26 Mg	0.1838 ppb	19.59	0.1838	1.00	
27 Al	0.1939 ppb	9.34	0.1939	1.00	
39 K	42.72 ppb	2.66	42.72	1.00	
44 Ca	2.867 ppb	19.03	2.867	1.00	
51 V	0.1227 ppb	34.34	0.1227	1.00	
52 Cr	0.1667 ppb	16.59	0.1667	1.00	
55 Mn	-0.04276 ppb	21.01	-0.04276	1.00	
57 Fe	14.96 ppb	13.16	14.96	1.00	
59 Co	0.0116 ppb	15.21	0.0116	1.00	
60 Ni	0.01061 ppb	161.26	0.01061	1.00	
65 Cu	0.01167 ppb	52.36	0.01167	1.00	
66 Zn	0.08131 ppb	81.25	0.08131	1.00	
75 As	0.08125 ppb	80.22	0.08125	1.00	
82 Se	0.2224 ppb	98.34	0.2224	1.00	
95 Mo	-0.006659 ppb	45.25	-0.006659	1.00	
109 Ag	-0.00413 ppb	92.49	-0.00413	1.00	
111 Cd	0.06129 ppb	16.12	0.06129	1.00	
121 Sb	0.05379 ppb	11.84	0.05379	1.00	
137 Ba	-0.009113 ppb	193.90	-0.009113	1.00	
205 Tl	0.05455 ppb	12.21	0.05455	1.00	
208 Pb	0.0006095 ppb	908.61	0.0006095	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	784775.44	1.65	---	#VALUE!	80 - 120	
45 Sc	411721.09	1.04	---	#VALUE!	80 - 120	
72 Ge	102546.88	1.15	---	#VALUE!	80 - 120	
115 In	569150.44	1.69	---	#VALUE!	80 - 120	
209 Bi	429836.66	1.45	---	#VALUE!	80 - 120	

ISTD Ref File : ---

3 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Fail
ISTD: Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06C2310b.B\003CAL
Date Acquired: Mar 23 2006 10:58 am
Operator:
Sample Name: std-blk
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 23 2006 10:38 am
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	775808.69	A	18830.00	2.43
9	Be	8.89	P	5.09	57.29
23	Na	99146.66	P	468.10	0.47
26	Mg	407.78	P	16.78	4.12
27	Al	4117.78	P	201.20	4.89
39	K	422334.41	P	8797.00	2.08
44	Ca	1605.58	P	41.73	2.60
45	Sc	409443.31	P	7147.00	1.75
51	V	1293.59	P	215.50	16.66
52	Cr	3157.78	P	165.80	5.25
55	Mn	508.89	P	13.47	2.65
57	Fe	4894.44	P	131.80	2.69
59	Co	133.33	P	35.12	26.34
60	Ni	108.89	P	5.09	4.68
65	Cu	275.55	P	45.01	16.33
66	Zn	752.22	P	20.09	2.67
72	Ge	101712.20	P	604.10	0.59
75	As	117.30	P	119.20	101.62
82	Se	34.44	P	3.36	9.74
95	Mo	17.78	P	5.09	28.64
109	Ag	37.78	P	6.94	18.37
111	Cd	170.30	P	21.23	12.47
115	In	559595.19	P	2751.00	0.49
121	Sb	333.33	P	50.33	15.10
137	Ba	27.78	P	7.70	27.71
205	Tl	311.11	P	48.34	15.54
208	Pb	243.33	P	41.63	17.11
209	Bi	426621.09	P	7971.00	1.87

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2310b.B\004CALI.D\004CALI.D#
Date Acquired: Mar 23 2006 11:03 am
Operator:
Sample Name: CS1,S2889
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 23 2006 11:00 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	790411.63	A	2450.00	0.31
9 Be	484.44	P	25.46	5.26
23 Na	279423.31	P	1920.00	0.69
26 Mg	19601.11	P	311.30	1.59
27 Al	8845.55	P	206.20	2.33
39 K	565872.19	P	1683.00	0.30
44 Ca	4893.62	P	106.30	2.17
45 Sc	420268.91	P	7953.00	1.89
51 V	2807.74	P	213.70	7.61
52 Cr	4011.11	P	129.10	3.22
55 Mn	1828.89	P	128.30	7.02
57 Fe	7604.44	P	148.50	1.95
59 Co	1295.56	P	36.72	2.83
60 Ni	408.89	P	48.80	11.94
65 Cu	748.81	P	22.19	2.96
66 Zn	1167.68	P	79.33	6.79
72 Ge	99447.55	P	843.30	0.85
75 As	231.60	P	87.17	37.64
82 Se	68.89	P	17.84	25.90
95 Mo	348.89	P	33.55	9.62
109 Ag	760.00	P	52.39	6.89
111 Cd	299.17	P	31.46	10.52
115 In	548586.31	P	2908.00	0.53
121 Sb	827.78	P	63.63	7.69
137 Ba	248.89	P	30.06	12.08
205 Tl	1288.89	P	30.25	2.35
208 Pb	1746.67	P	150.40	8.61
209 Bi	412747.81	P	1899.00	0.46

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	790411.63	0.31	775808.75	101.9	80 - 120	

45	Sc	420268.88	1.89	409443.31	102.6	80 - 120
72	Ge	99447.56	0.85	101712.22	97.8	80 - 120
115	In	548586.31	0.53	559595.25	98.0	80 - 120
209	Bi	412747.78	0.46	426621.09	96.7	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2310b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**

ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2310b.B\005CALI.D\005CALI.D#
Date Acquired: Mar 23 2006 11:09 am
Operator:
Sample Name: CS2,S2890
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 23 2006 11:05 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	784977.63	A	12520.00	1.59
9 Be	997.78	P	41.14	4.12
23 Na	452814.41	P	2750.00	0.61
26 Mg	37917.78	P	340.40	0.90
27 Al	10084.44	P	120.00	1.19
39 K	733658.81	M	39700.00	5.41
44 Ca	8144.72	P	37.34	0.46
45 Sc	424301.09	P	3530.00	0.83
51 V	3988.47	P	281.90	7.07
52 Cr	5054.44	P	221.40	4.38
55 Mn	3032.22	P	174.60	5.76
57 Fe	10028.89	P	282.20	2.81
59 Co	2413.33	P	32.83	1.36
60 Ni	705.56	P	52.74	7.48
65 Cu	1003.17	P	63.86	6.37
66 Zn	1117.59	P	28.74	2.57
72 Ge	99432.45	P	600.40	0.60
75 As	562.45	P	127.60	22.69
82 Se	70.44	P	7.37	10.47
95 Mo	647.78	P	37.91	5.85
109 Ag	1448.89	P	39.77	2.74
111 Cd	458.29	P	30.30	6.61
115 In	545476.00	P	3163.00	0.58
121 Sb	1206.67	P	90.62	7.51
137 Ba	397.78	P	57.96	14.57
205 Tl	2341.11	P	44.01	1.88
208 Pb	3224.44	P	119.10	3.69
209 Bi	417193.31	P	3526.00	0.85

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	784977.56	1.59	775808.75	101.2	80 - 120	

45	Sc	424301.09	0.83	409443.31	103.6	80 -	120
72	Ge	99432.45	0.60	101712.22	97.8	80 -	120
115	In	545476.00	0.58	559595.25	97.5	80 -	120
209	Bi	417193.31	0.85	426621.09	97.8	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2310b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2310b.B\006CALI.D\006CALI.D#
Date Acquired: Mar 23 2006 11:15 am
Operator:
Sample Name: CS3,S2891
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 23 2006 11:11 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	791122.69	A	29160.00	3.69
9 Be	1917.78	P	51.68	2.69
23 Na	883735.31	A	11630.00	1.32
26 Mg	74280.00	P	841.10	1.13
27 Al	14677.78	P	211.20	1.44
39 K	986351.13	A	19300.00	1.96
44 Ca	14378.92	P	163.40	1.14
45 Sc	415325.50	P	9409.00	2.27
51 V	6298.55	P	198.40	3.15
52 Cr	7065.56	P	226.30	3.20
55 Mn	5450.00	P	134.50	2.47
57 Fe	15552.22	P	74.11	0.48
59 Co	4790.00	P	61.10	1.28
60 Ni	1260.00	P	76.88	6.10
65 Cu	1993.02	P	21.86	1.10
66 Zn	1868.52	P	37.16	1.99
72 Ge	102730.90	P	1618.00	1.58
75 As	805.56	P	77.69	9.64
82 Se	97.33	P	5.29	5.44
95 Mo	1352.22	P	27.76	2.05
109 Ag	3108.89	P	91.79	2.95
111 Cd	747.54	P	89.07	11.92
115 In	572599.00	P	17240.00	3.01
121 Sb	2201.11	P	144.30	6.56
137 Ba	857.78	P	13.88	1.62
205 Tl	4635.56	P	207.10	4.47
208 Pb	6735.56	P	309.60	4.60
209 Bi	436081.09	P	7176.00	1.65

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	791122.75	3.69	775808.75	102.0	80 - 120	

45	Sc	415325.53	2.27	409443.31	101.4	80 -	120
72	Ge	102730.88	1.58	101712.22	101.0	80 -	120
115	In	572599.00	3.01	559595.25	102.3	80 -	120
209	Bi	436081.09	1.65	426621.09	102.2	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2310b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**

ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2310b.B\007CALI.D\007CALI.D#
Date Acquired: Mar 23 2006 11:20 am
Operator:
Sample Name: CS4,S2892
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 23 2006 11:16 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	784525.00	A	8223.00	1.05
9	Be	20371.11	P	400.20	1.96
23	Na	7442363.00	A	77160.00	1.04
26	Mg	800099.50	A	8280.00	1.03
27	Al	72990.00	P	477.60	0.65
39	K	5793923.00	A	12380.00	0.21
44	Ca	127640.20	P	2316.00	1.81
45	Sc	420837.81	P	10510.00	2.50
51	V	45494.55	P	1180.00	2.59
52	Cr	40650.00	P	753.50	1.85
55	Mn	49140.00	P	1013.00	2.06
57	Fe	108534.40	P	1553.00	1.43
59	Co	46638.89	P	447.10	0.96
60	Ni	10917.78	P	227.50	2.08
65	Cu	14453.37	P	188.00	1.30
66	Zn	8324.89	P	176.60	2.12
72	Ge	100166.40	P	302.10	0.30
75	As	7161.56	P	54.26	0.76
82	Se	731.33	P	39.11	5.35
95	Mo	12558.89	P	68.50	0.55
109	Ag	29750.00	P	685.60	2.30
111	Cd	6352.61	P	78.40	1.23
115	In	545824.50	P	945.70	0.17
121	Sb	18916.67	P	190.80	1.01
137	Ba	7855.56	P	180.20	2.29
205	Tl	41273.33	P	722.20	1.75
208	Pb	62055.55	P	904.90	1.46
209	Bi	418984.41	P	8427.00	2.01

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	784525.00	1.05	775808.75	101.1	80 - 120	

45	Sc	420837.78	2.50	409443.31	102.8	80 - 120
72	Ge	100166.45	0.30	101712.22	98.5	80 - 120
115	In	545824.44	0.17	559595.25	97.5	80 - 120
209	Bi	418984.44	2.01	426621.09	98.2	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2310b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**

ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2310b.B\008CALI.D\008CALI.D#
Date Acquired: Mar 23 2006 11:26 am
Operator:
Sample Name: CS5,S2886
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 23 2006 11:22 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	787994.88	A	13350.00	1.69
9 Be	203587.80	P	5450.00	2.68
23 Na	73536760.00	A	859700.00	1.17
26 Mg	7657377.00	A	69310.00	0.91
27 Al	644129.81	M	19870.00	3.08
39 K	51964352.00	A	367700.00	0.71
44 Ca	1350326.00	A	23290.00	1.72
45 Sc	419074.41	P	8109.00	1.94
51 V	449905.31	P	4768.00	1.06
52 Cr	381837.81	P	396.20	0.10
55 Mn	481236.59	P	921.00	0.19
57 Fe	1080371.00	A	7307.00	0.68
59 Co	466860.00	P	2142.00	0.46
60 Ni	105283.30	P	423.90	0.40
65 Cu	135636.09	P	198.30	0.15
66 Zn	71307.26	P	445.60	0.62
72 Ge	100558.90	P	319.80	0.32
75 As	71033.59	P	614.40	0.86
82 Se	6635.33	P	94.84	1.43
95 Mo	127420.00	P	2057.00	1.61
109 Ag	292198.91	P	4463.00	1.53
111 Cd	59212.68	P	1294.00	2.19
115 In	531404.88	P	10310.00	1.94
121 Sb	180223.30	P	4836.00	2.68
137 Ba	78318.88	P	1586.00	2.03
205 Tl	429591.09	P	12000.00	2.79
208 Pb	650477.69	P	26330.00	4.05
209 Bi	411804.41	P	9923.00	2.41

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	787994.94	1.69	775808.75	101.6	80 - 120	

45	Sc	419074.44	1.94	409443.31	102.4	80 -	120
72	Ge	100558.88	0.32	101712.22	98.9	80 -	120
115	In	531404.94	1.94	559595.25	95.0	80 -	120
209	Bi	411804.44	2.41	426621.09	96.5	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2310b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2310b.B\009CALI.D\009CALI.D#
Date Acquired: Mar 23 2006 11:31 am
Operator:
Sample Name: CS6,S2887
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 23 2006 11:27 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	777506.50	A	15090.00	1.94
9	Be	402048.91	P	5075.00	1.26
23	Na	144272000.00	A	2933000.00	2.03
26	Mg	15093900.00	A	218600.00	1.45
27	Al	1333617.00	A	6757.00	0.51
39	K	104837500.00	A	1040000.00	0.99
44	Ca	2659593.00	A	18350.00	0.69
45	Sc	426454.41	P	1604.00	0.38
51	V	933425.69	A	4725.00	0.51
52	Cr	756251.00	M	4560.00	0.60
55	Mn	953768.31	A	10860.00	1.14
57	Fe	2069988.00	A	17680.00	0.85
59	Co	934132.63	A	8685.00	0.93
60	Ni	204131.09	P	3087.00	1.51
65	Cu	257614.09	P	3111.00	1.21
66	Zn	134214.50	P	1485.00	1.11
72	Ge	99161.11	P	224.10	0.23
75	As	139126.09	P	1277.00	0.92
82	Se	12774.89	P	49.98	0.39
95	Mo	249847.80	P	1701.00	0.68
109	Ag	571132.19	P	1338.00	0.23
111	Cd	113568.00	P	261.80	0.23
115	In	508989.41	P	6102.00	1.20
121	Sb	342302.19	P	1735.00	0.51
137	Ba	152564.41	P	538.60	0.35
205	Tl	818537.69	P	587.60	0.07
208	Pb	1137714.00	P	9063.00	0.80
209	Bi	389114.41	P	7860.00	2.02

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	777506.56	1.94	775808.75	100.2	80 - 120	

45	Sc	426454.44	0.38	409443.31	104.2	80 - 120
72	Ge	99161.12	0.23	101712.22	97.5	80 - 120
115	In	508989.41	1.20	559595.25	91.0	80 - 120
209	Bi	389114.44	2.02	426621.09	91.2	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2310b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Summary

Calibration : C:\ICPCHEM\1\CALIB\60200111.C
Last Calib: Mar 23, 2006 11:33
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\06c2310b.b\003calb.d\	003calb.d#	Mar 23 2006 10:58 am
2	...hem\1\data\06c2310b.b\004cali.d\	004cali.d#	Mar 23 2006 11:03 am
3	...hem\1\data\06c2310b.b\005cali.d\	005cali.d#	Mar 23 2006 11:09 am
4	...hem\1\data\06c2310b.b\006cali.d\	006cali.d#	Mar 23 2006 11:15 am
5	...hem\1\data\06c2310b.b\007cali.d\	007cali.d#	Mar 23 2006 11:20 am
6	...hem\1\data\06c2310b.b\008cali.d\	008cali.d#	Mar 23 2006 11:26 am
7	...hem\1\data\06c2310b.b\009cali.d\	009cali.d#	Mar 23 2006 11:31 am
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	Excluded	---	ppb
Be	9	6	Y = 1.293E-1*X +5.752E-4(blank)	---	ppb
Na	23	45	Y = 8.514E-1*X +1.211E+1(blank)	---	ppb
Mg	25	45	Excluded	---	ppb
Mg	26	45	Y = 8.908E-2*X +4.980E-2(blank)	---	ppb
Al	27	45	Y = 7.763E-1*X +5.027E-1(blank)	---	ppb
K	39	45	Y = 6.126E-1*X +5.158E+1(blank)	---	ppb
Ca	43	45	Excluded	---	ppb
Ca	44	45	Y = 1.568E-2*X +1.961E-1(blank)	---	ppb
Sc	45	---	Excluded	---	ppb
V	51	72	Y = 2.326E+0*X +6.357E-1(blank)	---	ppb
Cr	52	72	Y = 1.896E+0*X +1.552E+0(blank)	---	ppb
Cr	53	72	Excluded	---	ppb
Fe	54	72	Excluded	---	ppb
Mn	55	72	Y = 2.401E+0*X +2.502E-1(blank)	---	ppb
Fe	57	72	Y = 5.235E-2*X +2.406E+0(blank)	---	ppb
Co	59	72	Y = 2.348E+0*X +6.555E-2(blank)	---	ppb
Ni	60	72	Y = 5.161E-1*X +5.354E-2(blank)	---	ppb
Cu	63	72	Excluded	---	ppb
Cu	65	72	Y = 6.538E-1*X +1.355E-1(blank)	---	ppb
Zn	66	72	Y = 3.395E-1*X +3.698E-1(blank)	---	ppb
Ge	72	---	Excluded	---	ppb
As	75	72	Y = 3.509E-1*X +5.782E-2(blank)	---	ppb
(As)	77	72	Excluded	---	ppb
Se	82	72	Y = 3.227E-2*X +1.694E-2(blank)	---	ppb
(As)	83	72	Excluded	---	ppb
(Ca)	88	72	Excluded	---	ppb
Y	89	72	Excluded	---	ppb
Mo	95	72	Y = 6.306E-1*X +8.737E-3(blank)	---	ppb
Mo	98	72	Excluded	---	ppb
(Mo)	99	72	Excluded	---	ppb
(Cd)	106	72	Excluded	---	ppb
(Cd)	108	72	Excluded	---	ppb
Ag	109	72	Y = 1.442E+0*X +1.858E-2(blank)	---	ppb
Cd	111	72	Y = 2.875E-1*X +8.375E-2(blank)	---	ppb
Cd	114	72	Excluded	---	ppb
In	115	---	Excluded	---	ppb
(In)	118	---	Excluded	---	ppb
Sb	121	115	Y = 1.683E-1*X +2.978E-2(blank)	---	ppb
Ba	135	115	Excluded	---	ppb
Ba	137	115	Y = 7.467E-2*X +2.480E-3(blank)	---	ppb
Tb	159	---	Excluded	---	ppb
Er	166	115	Excluded	---	ppb
Tl	205	209	Y = 5.249E-1*X +3.647E-2(blank)	---	ppb
(Pb)	206	209	Excluded	---	ppb
(Pb)	207	209	Excluded	---	ppb
Pb	208	209	Y = 7.427E-1*X +2.857E-2(blank)	---	ppb
Bi	209	---	Excluded	---	ppb
Th	232	209	--------	---	ppb
U	238	209	--------	---	ppb

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726012 File : c2310012 Time : 23-MAR-2006 11:53
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2895, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	1.3125	0.7182	100.0	91.86	ug/L	-8	10	
Antimony	0.2043	0.1621	100.0	96.15	ug/L	-4	10	
Arsenic	0.4038	0.3444	100.0	97.98	ug/L	-2	10	
Barium	0.0765	0.0704	100.0	94.25	ug/L	-6	10	
Beryllium	0.1266	0.1278	100.0	98.86	ug/L	-1	10	
Cadmium	0.3874	0.2821	100.0	97.82	ug/L	-2	10	
Calcium	0.0167	0.0155	10000	9885	ug/L	-1	10	
Chromium	2.8714	1.8459	100.0	96.56	ug/L	-3	10	
Cobalt	2.3948	2.2365	100.0	95.23	ug/L	-5	10	
Copper	0.8050	0.6395	100.0	97.61	ug/L	-2	10	
Iron	0.0673	0.0517	10000	9822	ug/L	-2	10	
Lead	0.7755	0.7656	100.0	103.0	ug/L	3	10	
Magnesium	0.0908	0.0853	10000	9572	ug/L	-4	10	
Manganese	2.7719	2.3018	100.0	95.77	ug/L	-4	10	
Molybdenum	0.6400	0.6117	100.0	97.00	ug/L	-3	10	
Nickel	0.6215	0.5043	100.0	97.60	ug/L	-2	10	
Potassium	0.9681	0.6001	10000	9712	ug/L	-3	10	
Selenium	0.0440	0.0325	100.0	100.1	ug/L	0	10	
Silver	1.4794	1.4010	100.0	97.11	ug/L	-3	10	
Sodium	0.9479	0.8118	10000	9520	ug/L	-5	10	
Thallium	0.5266	0.5047	100.0	96.08	ug/L	-4	10	
Vanadium	2.7875	2.3001	100.0	98.61	ug/L	-1	10	
Zinc	0.6284	0.3394	100.0	98.88	ug/L	-1	10	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	791485	2.02
Scandium	409443	439027	7.23
Germanium	101712	99380	-2.29
Indium	559595	522662	-6.60
Bismuth	426621	395654	-7.26

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726028 File : c2310028 Time : 23-MAR-2006 13:22
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3125	0.8139	150.0	156.6	ug/L	4	10	
Antimony	0.2043	0.1629	150.0	145.0	ug/L	-3	10	
Arsenic	0.4038	0.3485	150.0	148.8	ug/L	-1	10	
Barium	0.0765	0.0741	150.0	148.8	ug/L	-1	10	
Beryllium	0.1266	0.1300	150.0	150.8	ug/L	1	10	
Cadmium	0.3874	0.2884	150.0	150.2	ug/L	0	10	
Calcium	0.0167	0.0158	15000	15090	ug/L	1	10	
Chromium	2.8714	1.8621	150.0	146.5	ug/L	-2	10	
Cobalt	2.3948	2.3142	150.0	147.8	ug/L	-1	10	
Copper	0.8050	0.6512	150.0	149.2	ug/L	-1	10	
Iron	0.0673	0.0535	15000	15280	ug/L	2	10	
Lead	0.7755	0.7709	150.0	155.6	ug/L	4	10	
Magnesium	0.0908	0.0910	15000	15320	ug/L	2	10	
Manganese	2.7719	2.4151	150.0	150.8	ug/L	1	10	
Molybdenum	0.6400	0.6279	150.0	149.4	ug/L	0	10	
Nickel	0.6215	0.5182	150.0	150.5	ug/L	0	10	
Potassium	0.9681	0.6304	15000	15350	ug/L	2	10	
Selenium	0.0440	0.0334	150.0	154.8	ug/L	3	10	
Silver	1.4794	1.4166	150.0	147.3	ug/L	-2	10	
Sodium	0.9479	0.8757	15000	15410	ug/L	3	10	
Thallium	0.5266	0.5391	150.0	154.0	ug/L	3	10	
Vanadium	2.7875	2.2916	150.0	147.5	ug/L	-2	10	
Zinc	0.6284	0.3496	150.0	153.4	ug/L	2	10	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	774406	-0.18
Scandium	409443	420713	2.75
Germanium	101712	101084	-0.62
Indium	559595	532687	-4.81
Bismuth	426621	405759	-4.89

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726042 File : c2310042 Time : 23-MAR-2006 14:40
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3125	0.7977	150.0	153.5	ug/L	2	10	
Antimony	0.2043	0.1616	150.0	143.9	ug/L	-4	10	
Arsenic	0.4038	0.3450	150.0	147.3	ug/L	-2	10	
Barium	0.0765	0.0724	150.0	145.4	ug/L	-3	10	
Beryllium	0.1266	0.1317	150.0	152.9	ug/L	2	10	
Cadmium	0.3874	0.2888	150.0	150.4	ug/L	0	10	
Calcium	0.0167	0.0156	15000	14880	ug/L	-1	10	
Chromium	2.8714	1.9472	150.0	153.3	ug/L	2	10	
Cobalt	2.3948	2.2970	150.0	146.7	ug/L	-2	10	
Copper	0.8050	0.6440	150.0	147.5	ug/L	-2	10	
Iron	0.0673	0.0535	15000	15270	ug/L	2	10	
Lead	0.7755	0.7524	150.0	151.9	ug/L	1	10	
Magnesium	0.0908	0.0896	15000	15080	ug/L	1	10	
Manganese	2.7719	2.3966	150.0	149.6	ug/L	0	10	
Molybdenum	0.6400	0.6330	150.0	150.6	ug/L	0	10	
Nickel	0.6215	0.5185	150.0	150.6	ug/L	0	10	
Potassium	0.9681	0.6291	15000	15320	ug/L	2	10	
Selenium	0.0440	0.0333	150.0	154.4	ug/L	3	10	
Silver	1.4794	1.4265	150.0	148.3	ug/L	-1	10	
Sodium	0.9479	0.8417	15000	14810	ug/L	-1	10	
Thallium	0.5266	0.5189	150.0	148.2	ug/L	-1	10	
Vanadium	2.7875	2.3334	150.0	150.2	ug/L	0	10	
Zinc	0.6284	0.3389	150.0	148.7	ug/L	-1	10	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	759231	-2.14
Scandium	409443	425888	4.02
Germanium	101712	95412	-6.19
Indium	559595	501920	-10.31
Bismuth	426621	387752	-9.11

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726053 File : c2310053 Time : 23-MAR-2006 15:42
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3125	0.7826	150.0	150.6	ug/L	0	10	
Antimony	0.2043	0.1610	150.0	143.3	ug/L	-4	10	
Arsenic	0.4038	0.3430	150.0	146.5	ug/L	-2	10	
Barium	0.0765	0.0729	150.0	146.4	ug/L	-2	10	
Beryllium	0.1266	0.1311	150.0	152.1	ug/L	1	10	
Cadmium	0.3874	0.2859	150.0	148.9	ug/L	-1	10	
Calcium	0.0167	0.0156	15000	14910	ug/L	-1	10	
Chromium	2.8714	1.8961	150.0	149.2	ug/L	-1	10	
Cobalt	2.3948	2.2878	150.0	146.1	ug/L	-3	10	
Copper	0.8050	0.6418	150.0	147.0	ug/L	-2	10	
Iron	0.0673	0.0534	15000	15260	ug/L	2	10	
Lead	0.7755	0.7603	150.0	153.5	ug/L	2	10	
Magnesium	0.0908	0.0898	15000	15130	ug/L	1	10	
Manganese	2.7719	2.3961	150.0	149.6	ug/L	0	10	
Molybdenum	0.6400	0.6272	150.0	149.2	ug/L	-1	10	
Nickel	0.6215	0.5124	150.0	148.8	ug/L	-1	10	
Potassium	0.9681	0.6107	15000	14870	ug/L	-1	10	
Selenium	0.0440	0.0331	150.0	153.4	ug/L	2	10	
Silver	1.4794	1.4218	150.0	147.8	ug/L	-1	10	
Sodium	0.9479	0.8392	15000	14770	ug/L	-2	10	
Thallium	0.5266	0.5260	150.0	150.3	ug/L	0	10	
Vanadium	2.7875	2.3031	150.0	148.2	ug/L	-1	10	
Zinc	0.6284	0.3433	150.0	150.6	ug/L	0	10	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	786400	1.37
Scandium	409443	431543	5.40
Germanium	101712	97476	-4.16
Indium	559595	511501	-8.59
Bismuth	426621	396000	-7.18

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726063 File : c2310063 Time : 23-MAR-2006 16:41
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3125	0.8347	150.0	160.6	ug/L	7	10	
Antimony	0.2043	0.1616	150.0	143.9	ug/L	-4	10	
Arsenic	0.4038	0.3411	150.0	145.7	ug/L	-3	10	
Barium	0.0765	0.0737	150.0	148.0	ug/L	-1	10	
Beryllium	0.1266	0.1261	150.0	146.3	ug/L	-2	10	
Cadmium	0.3874	0.2948	150.0	153.5	ug/L	2	10	
Calcium	0.0167	0.0156	15000	14930	ug/L	0	10	
Chromium	2.8714	1.8395	150.0	144.7	ug/L	-4	10	
Cobalt	2.3948	2.3110	150.0	147.6	ug/L	-2	10	
Copper	0.8050	0.6516	150.0	149.3	ug/L	0	10	
Iron	0.0673	0.0539	15000	15400	ug/L	3	10	
Lead	0.7755	0.7638	150.0	154.2	ug/L	3	10	
Magnesium	0.0908	0.0938	15000	15800	ug/L	5	10	
Manganese	2.7719	2.4116	150.0	150.6	ug/L	0	10	
Molybdenum	0.6400	0.6230	150.0	148.2	ug/L	-1	10	
Nickel	0.6215	0.5176	150.0	150.3	ug/L	0	10	
Potassium	0.9681	0.6184	15000	15060	ug/L	0	10	
Selenium	0.0440	0.0332	150.0	153.9	ug/L	3	10	
Silver	1.4794	1.4339	150.0	149.1	ug/L	-1	10	
Sodium	0.9479	0.8965	15000	15780	ug/L	5	10	
Thallium	0.5266	0.5347	150.0	152.7	ug/L	2	10	
Vanadium	2.7875	2.1620	150.0	139.2	ug/L	-7	10	
Zinc	0.6284	0.3513	150.0	154.2	ug/L	3	10	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	723956	-6.68
Scandium	409443	381597	-6.80
Germanium	101712	97170	-4.47
Indium	559595	529399	-5.40
Bismuth	426621	421860	-1.12

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726078 File : c2310078 Time : 23-MAR-2006 18:07
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3125	0.7943	150.0	152.8	ug/L	2	10	
Antimony	0.2043	0.1591	150.0	141.7	ug/L	-6	10	
Arsenic	0.4038	0.3447	150.0	147.2	ug/L	-2	10	
Barium	0.0765	0.0714	150.0	143.4	ug/L	-4	10	
Beryllium	0.1266	0.1317	150.0	152.9	ug/L	2	10	
Cadmium	0.3874	0.2857	150.0	148.8	ug/L	-1	10	
Calcium	0.0167	0.0158	15000	15110	ug/L	1	10	
Chromium	2.8714	1.9203	150.0	151.1	ug/L	1	10	
Cobalt	2.3948	2.3030	150.0	147.1	ug/L	-2	10	
Copper	0.8050	0.6456	150.0	147.9	ug/L	-1	10	
Iron	0.0673	0.0538	15000	15370	ug/L	2	10	
Lead	0.7755	0.7371	150.0	148.8	ug/L	-1	10	
Magnesium	0.0908	0.0884	15000	14880	ug/L	-1	10	
Manganese	2.7719	2.4002	150.0	149.9	ug/L	0	10	
Molybdenum	0.6400	0.6217	150.0	147.9	ug/L	-1	10	
Nickel	0.6215	0.5150	150.0	149.6	ug/L	0	10	
Potassium	0.9681	0.6305	15000	15350	ug/L	2	10	
Selenium	0.0440	0.0331	150.0	153.2	ug/L	2	10	
Silver	1.4794	1.4097	150.0	146.6	ug/L	-2	10	
Sodium	0.9479	0.8294	15000	14600	ug/L	-3	10	
Thallium	0.5266	0.5070	150.0	144.8	ug/L	-3	10	
Vanadium	2.7875	2.4023	150.0	154.6	ug/L	3	10	
Zinc	0.6284	0.3379	150.0	148.2	ug/L	-1	10	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	751692	-3.11
Scandium	409443	430758	5.21
Germanium	101712	95084	-6.52
Indium	559595	500280	-10.60
Bismuth	426621	391952	-8.13

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726092 File : c2310092 Time : 23-MAR-2006 19:25
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3125	0.7986	150.0	153.7	ug/L	2	10	
Antimony	0.2043	0.1582	150.0	140.8	ug/L	-6	10	
Arsenic	0.4038	0.3374	150.0	144.1	ug/L	-4	10	
Barium	0.0765	0.0701	150.0	140.8	ug/L	-6	10	
Beryllium	0.1266	0.1262	150.0	146.4	ug/L	-2	10	
Cadmium	0.3874	0.2822	150.0	147.0	ug/L	-2	10	
Calcium	0.0167	0.0154	15000	14750	ug/L	-2	10	
Chromium	2.8714	1.8529	150.0	145.8	ug/L	-3	10	
Cobalt	2.3948	2.2565	150.0	144.1	ug/L	-4	10	
Copper	0.8050	0.6296	150.0	144.2	ug/L	-4	10	
Iron	0.0673	0.0526	15000	15030	ug/L	0	10	
Lead	0.7755	0.7282	150.0	147.0	ug/L	-2	10	
Magnesium	0.0908	0.0889	15000	14970	ug/L	0	10	
Manganese	2.7719	2.3668	150.0	147.8	ug/L	-1	10	
Molybdenum	0.6400	0.6090	150.0	144.9	ug/L	-3	10	
Nickel	0.6215	0.5065	150.0	147.1	ug/L	-2	10	
Potassium	0.9681	0.6100	15000	14850	ug/L	-1	10	
Selenium	0.0440	0.0326	150.0	150.8	ug/L	1	10	
Silver	1.4794	1.3964	150.0	145.2	ug/L	-3	10	
Sodium	0.9479	0.8290	15000	14590	ug/L	-3	10	
Thallium	0.5266	0.5071	150.0	144.9	ug/L	-3	10	
Vanadium	2.7875	2.3264	150.0	149.8	ug/L	0	10	
Zinc	0.6284	0.3369	150.0	147.8	ug/L	-1	10	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	763806	-1.55
Scandium	409443	417218	1.90
Germanium	101712	97334	-4.30
Indium	559595	519938	-7.09
Bismuth	426621	405930	-4.85

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726106 File : c2310106 Time : 23-MAR-2006 20:43
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3125	0.7804	150.0	150.1	ug/L	0	10	
Antimony	0.2043	0.1606	150.0	143.0	ug/L	-5	10	
Arsenic	0.4038	0.3392	150.0	144.8	ug/L	-3	10	
Barium	0.0765	0.0713	150.0	143.2	ug/L	-5	10	
Beryllium	0.1266	0.1293	150.0	150.0	ug/L	0	10	
Cadmium	0.3874	0.2812	150.0	146.5	ug/L	-2	10	
Calcium	0.0167	0.0156	15000	14880	ug/L	-1	10	
Chromium	2.8714	1.8539	150.0	145.9	ug/L	-3	10	
Cobalt	2.3948	2.2471	150.0	143.5	ug/L	-4	10	
Copper	0.8050	0.6303	150.0	144.4	ug/L	-4	10	
Iron	0.0673	0.0529	15000	15100	ug/L	1	10	
Lead	0.7755	0.7277	150.0	146.9	ug/L	-2	10	
Magnesium	0.0908	0.0878	15000	14790	ug/L	-1	10	
Manganese	2.7719	2.3561	150.0	147.1	ug/L	-2	10	
Molybdenum	0.6400	0.6077	150.0	144.5	ug/L	-4	10	
Nickel	0.6215	0.5060	150.0	147.0	ug/L	-2	10	
Potassium	0.9681	0.6131	15000	14930	ug/L	0	10	
Selenium	0.0440	0.0325	150.0	150.7	ug/L	0	10	
Silver	1.4794	1.3857	150.0	144.1	ug/L	-4	10	
Sodium	0.9479	0.8374	15000	14740	ug/L	-2	10	
Thallium	0.5266	0.5044	150.0	144.1	ug/L	-4	10	
Vanadium	2.7875	2.2587	150.0	145.4	ug/L	-3	10	
Zinc	0.6284	0.3333	150.0	146.2	ug/L	-3	10	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	746062	-3.83
Scandium	409443	410669	0.30
Germanium	101712	95718	-5.89
Indium	559595	502105	-10.27
Bismuth	426621	395961	-7.19

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726119 File : c2310119 Time : 23-MAR-2006 21:56
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3125	0.7544	150.0	145.1	ug/L	-3	10	
Antimony	0.2043	0.1589	150.0	141.5	ug/L	-6	10	
Arsenic	0.4038	0.3375	150.0	144.1	ug/L	-4	10	
Barium	0.0765	0.0703	150.0	141.1	ug/L	-6	10	
Beryllium	0.1266	0.1253	150.0	145.4	ug/L	-3	10	
Cadmium	0.3874	0.2839	150.0	147.9	ug/L	-1	10	
Calcium	0.0167	0.0151	15000	14460	ug/L	-4	10	
Chromium	2.8714	1.8121	150.0	142.6	ug/L	-5	10	
Cobalt	2.3948	2.2443	150.0	143.4	ug/L	-4	10	
Copper	0.8050	0.6198	150.0	142.0	ug/L	-5	10	
Iron	0.0673	0.0520	15000	14860	ug/L	-1	10	
Lead	0.7755	0.7258	150.0	146.5	ug/L	-2	10	
Magnesium	0.0908	0.0852	15000	14340	ug/L	-4	10	
Manganese	2.7719	2.3550	150.0	147.0	ug/L	-2	10	
Molybdenum	0.6400	0.6097	150.0	145.0	ug/L	-3	10	
Nickel	0.6215	0.5039	150.0	146.3	ug/L	-2	10	
Potassium	0.9681	0.5824	15000	14180	ug/L	-5	10	
Selenium	0.0440	0.0327	150.0	151.6	ug/L	1	10	
Silver	1.4794	1.3935	150.0	144.9	ug/L	-3	10	
Sodium	0.9479	0.8237	15000	14500	ug/L	-3	10	
Thallium	0.5266	0.5037	150.0	143.9	ug/L	-4	10	
Vanadium	2.7875	2.1722	150.0	139.8	ug/L	-7	10	
Zinc	0.6284	0.3367	150.0	147.7	ug/L	-2	10	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	743249	-4.20
Scandium	409443	409123	-0.08
Germanium	101712	96898	-4.73
Indium	559595	523933	-6.37
Bismuth	426621	413924	-2.98

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726134 File : c2310134 Time : 23-MAR-2006 23:19
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3125	0.7795	150.0	150.0	ug/L	0	10	
Antimony	0.2043	0.1572	150.0	139.9	ug/L	-7	10	
Arsenic	0.4038	0.3347	150.0	142.9	ug/L	-5	10	
Barium	0.0765	0.0691	150.0	138.8	ug/L	-7	10	
Beryllium	0.1266	0.1303	150.0	151.2	ug/L	1	10	
Cadmium	0.3874	0.2730	150.0	142.1	ug/L	-5	10	
Calcium	0.0167	0.0153	15000	14660	ug/L	-2	10	
Chromium	2.8714	1.9199	150.0	151.1	ug/L	1	10	
Cobalt	2.3948	2.2633	150.0	144.6	ug/L	-4	10	
Copper	0.8050	0.6282	150.0	143.9	ug/L	-4	10	
Iron	0.0673	0.0530	15000	15140	ug/L	1	10	
Lead	0.7755	0.7314	150.0	147.7	ug/L	-2	10	
Magnesium	0.0908	0.0874	15000	14720	ug/L	-2	10	
Manganese	2.7719	2.4019	150.0	150.0	ug/L	0	10	
Molybdenum	0.6400	0.5995	150.0	142.6	ug/L	-5	10	
Nickel	0.6215	0.5070	150.0	147.2	ug/L	-2	10	
Potassium	0.9681	0.6202	15000	15100	ug/L	1	10	
Selenium	0.0440	0.0323	150.0	149.6	ug/L	0	10	
Silver	1.4794	1.3558	150.0	141.0	ug/L	-6	10	
Sodium	0.9479	0.8185	15000	14400	ug/L	-4	10	
Thallium	0.5266	0.4961	150.0	141.7	ug/L	-6	10	
Vanadium	2.7875	2.3250	150.0	149.7	ug/L	0	10	
Zinc	0.6284	0.3289	150.0	144.3	ug/L	-4	10	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	759945	-2.04
Scandium	409443	429897	5.00
Germanium	101712	96016	-5.60
Indium	559595	503487	-10.03
Bismuth	426621	382921	-10.24

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726148 File : c2310148 Time : 24-MAR-2006 00:37
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3125	0.7723	150.0	148.6	ug/L	-1	10	
Antimony	0.2043	0.1596	150.0	142.1	ug/L	-5	10	
Arsenic	0.4038	0.3356	150.0	143.3	ug/L	-4	10	
Barium	0.0765	0.0701	150.0	140.7	ug/L	-6	10	
Beryllium	0.1266	0.1315	150.0	152.6	ug/L	2	10	
Cadmium	0.3874	0.2753	150.0	143.3	ug/L	-4	10	
Calcium	0.0167	0.0154	15000	14710	ug/L	-2	10	
Chromium	2.8714	1.8952	150.0	149.1	ug/L	-1	10	
Cobalt	2.3948	2.2531	150.0	143.9	ug/L	-4	10	
Copper	0.8050	0.6254	150.0	143.3	ug/L	-4	10	
Iron	0.0673	0.0527	15000	15050	ug/L	0	10	
Lead	0.7755	0.7343	150.0	148.3	ug/L	-1	10	
Magnesium	0.0908	0.0856	15000	14420	ug/L	-4	10	
Manganese	2.7719	2.3837	150.0	148.8	ug/L	-1	10	
Molybdenum	0.6400	0.6029	150.0	143.4	ug/L	-4	10	
Nickel	0.6215	0.5041	150.0	146.4	ug/L	-2	10	
Potassium	0.9681	0.6194	15000	15080	ug/L	1	10	
Selenium	0.0440	0.0322	150.0	149.4	ug/L	0	10	
Silver	1.4794	1.3606	150.0	141.5	ug/L	-6	10	
Sodium	0.9479	0.8051	15000	14170	ug/L	-6	10	
Thallium	0.5266	0.5019	150.0	143.4	ug/L	-4	10	
Vanadium	2.7875	2.3656	150.0	152.3	ug/L	2	10	
Zinc	0.6284	0.3283	150.0	144.0	ug/L	-4	10	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	746525	-3.77
Scandium	409443	438273	7.04
Germanium	101712	96932	-4.70
Indium	559595	504016	-9.93
Bismuth	426621	383969	-10.00

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726162 File : c2310162 Time : 24-MAR-2006 01:56
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3125	0.7803	150.0	150.1	ug/L	0	10	
Antimony	0.2043	0.1596	150.0	142.1	ug/L	-5	10	
Arsenic	0.4038	0.3347	150.0	142.9	ug/L	-5	10	
Barium	0.0765	0.0708	150.0	142.3	ug/L	-5	10	
Beryllium	0.1266	0.1221	150.0	141.7	ug/L	-6	10	
Cadmium	0.3874	0.2886	150.0	150.3	ug/L	0	10	
Calcium	0.0167	0.0150	15000	14350	ug/L	-4	10	
Chromium	2.8714	1.7883	150.0	140.7	ug/L	-6	10	
Cobalt	2.3948	2.2112	150.0	141.2	ug/L	-6	10	
Copper	0.8050	0.6137	150.0	140.6	ug/L	-6	10	
Iron	0.0673	0.0517	15000	14780	ug/L	-1	10	
Lead	0.7755	0.7349	150.0	148.4	ug/L	-1	10	
Magnesium	0.0908	0.0873	15000	14700	ug/L	-2	10	
Manganese	2.7719	2.2891	150.0	142.9	ug/L	-5	10	
Molybdenum	0.6400	0.6045	150.0	143.8	ug/L	-4	10	
Nickel	0.6215	0.4971	150.0	144.4	ug/L	-4	10	
Potassium	0.9681	0.5917	15000	14400	ug/L	-4	10	
Selenium	0.0440	0.0329	150.0	152.4	ug/L	2	10	
Silver	1.4794	1.3984	150.0	145.4	ug/L	-3	10	
Sodium	0.9479	0.8391	15000	14770	ug/L	-2	10	
Thallium	0.5266	0.5157	150.0	147.3	ug/L	-2	10	
Vanadium	2.7875	2.1100	150.0	135.8	ug/L	-9	10	
Zinc	0.6284	0.3332	150.0	146.1	ug/L	-3	10	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	725065	-6.54
Scandium	409443	383034	-6.45
Germanium	101712	96254	-5.37
Indium	559595	529129	-5.44
Bismuth	426621	420017	-1.55

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726168 File : c2310168 Time : 24-MAR-2006 02:29
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3125	0.7771	150.0	149.5	ug/L	0	10	
Antimony	0.2043	0.1589	150.0	141.4	ug/L	-6	10	
Arsenic	0.4038	0.3331	150.0	142.2	ug/L	-5	10	
Barium	0.0765	0.0701	150.0	140.8	ug/L	-6	10	
Beryllium	0.1266	0.1299	150.0	150.8	ug/L	1	10	
Cadmium	0.3874	0.2765	150.0	144.0	ug/L	-4	10	
Calcium	0.0167	0.0153	15000	14600	ug/L	-3	10	
Chromium	2.8714	1.8315	150.0	144.1	ug/L	-4	10	
Cobalt	2.3948	2.2134	150.0	141.4	ug/L	-6	10	
Copper	0.8050	0.6093	150.0	139.6	ug/L	-7	10	
Iron	0.0673	0.0514	15000	14680	ug/L	-2	10	
Lead	0.7755	0.7346	150.0	148.3	ug/L	-1	10	
Magnesium	0.0908	0.0871	15000	14660	ug/L	-2	10	
Manganese	2.7719	2.3074	150.0	144.1	ug/L	-4	10	
Molybdenum	0.6400	0.5981	150.0	142.3	ug/L	-5	10	
Nickel	0.6215	0.4999	150.0	145.2	ug/L	-3	10	
Potassium	0.9681	0.6044	15000	14710	ug/L	-2	10	
Selenium	0.0440	0.0322	150.0	149.1	ug/L	-1	10	
Silver	1.4794	1.3669	150.0	142.1	ug/L	-5	10	
Sodium	0.9479	0.8250	15000	14520	ug/L	-3	10	
Thallium	0.5266	0.5046	150.0	144.1	ug/L	-4	10	
Vanadium	2.7875	2.2848	150.0	147.1	ug/L	-2	10	
Zinc	0.6284	0.3300	150.0	144.7	ug/L	-4	10	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	734040	-5.38
Scandium	409443	404856	-1.12
Germanium	101712	96563	-5.06
Indium	559595	510160	-8.83
Bismuth	426621	399879	-6.27

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726175 File : c2310175 Time : 24-MAR-2006 03:08
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3125	0.7713	150.0	148.4	ug/L	-1	10	
Antimony	0.2043	0.1571	150.0	139.8	ug/L	-7	10	
Arsenic	0.4038	0.3343	150.0	142.7	ug/L	-5	10	
Barium	0.0765	0.0688	150.0	138.2	ug/L	-8	10	
Beryllium	0.1266	0.1338	150.0	155.3	ug/L	4	10	
Cadmium	0.3874	0.2751	150.0	143.3	ug/L	-4	10	
Calcium	0.0167	0.0153	15000	14660	ug/L	-2	10	
Chromium	2.8714	1.9592	150.0	154.2	ug/L	3	10	
Cobalt	2.3948	2.2686	150.0	144.9	ug/L	-3	10	
Copper	0.8050	0.6283	150.0	144.0	ug/L	-4	10	
Iron	0.0673	0.0528	15000	15080	ug/L	1	10	
Lead	0.7755	0.7301	150.0	147.4	ug/L	-2	10	
Magnesium	0.0908	0.0849	15000	14290	ug/L	-5	10	
Manganese	2.7719	2.4247	150.0	151.4	ug/L	1	10	
Molybdenum	0.6400	0.6004	150.0	142.8	ug/L	-5	10	
Nickel	0.6215	0.5086	150.0	147.7	ug/L	-2	10	
Potassium	0.9681	0.6175	15000	15040	ug/L	0	10	
Selenium	0.0440	0.0321	150.0	148.5	ug/L	-1	10	
Silver	1.4794	1.3519	150.0	140.6	ug/L	-6	10	
Sodium	0.9479	0.7955	15000	14000	ug/L	-7	10	
Thallium	0.5266	0.4840	150.0	138.3	ug/L	-8	10	
Vanadium	2.7875	2.4746	150.0	159.3	ug/L	6	10	
Zinc	0.6284	0.3268	150.0	143.3	ug/L	-4	10	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	720397	-7.14
Scandium	409443	432283	5.58
Germanium	101712	93260	-8.31
Indium	559595	481538	-13.95
Bismuth	426621	373090	-12.55

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726014 File : c2310014 Time : 23-MAR-2006 12:04
Cal : 56118726001 Caldate: 23-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1795]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1157]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.1916]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1364]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	792498	2.15
Scandium	409443	432548	5.64
Germanium	101712	98041	-3.61
Indium	559595	534525	-4.48
Bismuth	426621	392812	-7.92

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726030 File : c2310030 Time : 23-MAR-2006 13:33
Cal : 56118726001 Caldate: 23-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1367]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2005]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.07467]	0.5000	0.02100	ug/L	!ib
Vanadium	[0.1485]	1.000	0.08283	ug/L	!ib
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	802643	3.46
Scandium	409443	443027	8.20
Germanium	101712	97865	-3.78
Indium	559595	535905	-4.23
Bismuth	426621	401791	-5.82

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726044 File : c2310044 Time : 23-MAR-2006 14:51
Cal : 56118726001 Caldate: 23-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1236]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	[0.4174]	0.5000	0.04426	ug/L	!ib
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	[5.968]	50.00	3.054	ug/L	!ib
Manganese	[0.03882]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.09630]	0.2500	0.03982	ug/L	!ib
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	[37.67]	50.00	9.919	ug/L	!ib
Thallium	[0.09113]	0.5000	0.02100	ug/L	!ib
Vanadium	[0.1150]	1.000	0.08283	ug/L	!ib
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	775555	-0.03
Scandium	409443	427964	4.52
Germanium	101712	95781	-5.83
Indium	559595	526233	-5.96
Bismuth	426621	401889	-5.80

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726054 File : c2310054 Time : 23-MAR-2006 15:51
Cal : 56118726001 Caldate: 23-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1657]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	[0.03959]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.01237]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	[0.3778]	0.5000	0.04426	ug/L	!ib
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	[6.126]	50.00	3.054	ug/L	!ib
Manganese	[0.04494]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.1047]	0.2500	0.03982	ug/L	!ib
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	[38.17]	50.00	9.919	ug/L	!ib
Thallium	[0.2004]	0.5000	0.02100	ug/L	!ib
Vanadium	[0.09786]	1.000	0.08283	ug/L	!ib
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	793346	2.26
Scandium	409443	426560	4.18
Germanium	101712	95570	-6.04
Indium	559595	530780	-5.15
Bismuth	426621	408391	-4.27

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726065 File : c2310065 Time : 23-MAR-2006 16:52
Cal : 56118726001 Caldate: 23-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1201]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1615]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.09395]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	757698	-2.33
Scandium	409443	407270	-0.53
Germanium	101712	95902	-5.71
Indium	559595	526770	-5.87
Bismuth	426621	405449	-4.96

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726094 File : c2310094 Time : 23-MAR-2006 19:36
Cal : 56118726001 Caldate: 23-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.06613]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1469]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.06995]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.04996]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	780539	0.61
Scandium	409443	421409	2.92
Germanium	101712	96761	-4.87
Indium	559595	531190	-5.08
Bismuth	426621	406004	-4.83

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726108 File : c2310108 Time : 23-MAR-2006 20:54
Cal : 56118726001 Caldate: 23-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.04516]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.1214]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.02716]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	777690	0.24
Scandium	409443	412894	0.84
Germanium	101712	95386	-6.22
Indium	559595	527828	-5.68
Bismuth	426621	400807	-6.05

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726121 File : c2310121 Time : 23-MAR-2006 22:07
Cal : 56118726001 Caldate: 23-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.05001]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	[0.2015]	0.5000	0.04426	ug/L	!ib
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.06266]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.04637]	0.2500	0.03982	ug/L	!ib
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2693]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.05009]	0.5000	0.02100	ug/L	!ib
Vanadium	[0.08750]	1.000	0.08283	ug/L	!ib
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	764578	-1.45
Scandium	409443	378081	-7.66
Germanium	101712	98293	-3.36
Indium	559595	557852	-0.31
Bismuth	426621	427619	0.23

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726136 File : c2310136 Time : 23-MAR-2006 23:30
Cal : 56118726001 Caldate: 23-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.04098]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.05123]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.04212]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	763782	-1.55
Scandium	409443	431626	5.42
Germanium	101712	96913	-4.72
Indium	559595	532015	-4.93
Bismuth	426621	395039	-7.40

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726150 File : c2310150 Time : 24-MAR-2006 00:48
Cal : 56118726001 Caldate: 23-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.04470]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1391]	0.5000	0.09029	ug/L	!ib
Barium	[0.02603]	0.2500	0.02391	ug/L	!ib
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.05069]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.05859]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	767550	-1.06
Scandium	409443	406744	-0.66
Germanium	101712	99054	-2.61
Indium	559595	552678	-1.24
Bismuth	426621	423001	-0.85

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726164 File : c2310164 Time : 24-MAR-2006 02:07
Cal : 56118726001 Caldate: 23-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	[0.1328]	0.5000	0.09029	ug/L	!ib
Barium	[0.02994]	0.2500	0.02391	ug/L	!ib
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.008082]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.04287]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.04491]	0.2500	0.03982	ug/L	!ib
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.05058]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	745110	-3.96
Scandium	409443	417507	1.97
Germanium	101712	94887	-6.71
Indium	559595	518108	-7.41
Bismuth	426621	393877	-7.68

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726170 File : c2310170 Time : 24-MAR-2006 02:41
Cal : 56118726001 Caldate: 23-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.06036]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.01052]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	[8.025]	50.00	6.980	ug/L	!ib
Lead	[0.01038]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.04201]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.04453]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	750729	-3.23
Scandium	409443	421563	2.96
Germanium	101712	93696	-7.88
Indium	559595	506462	-9.49
Bismuth	426621	384434	-9.89

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726177 File : c2310177 Time : 24-MAR-2006 03:20
Cal : 56118726001 Caldate: 23-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.04175]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.04644]	0.5000	0.03860	ug/L	!ib
Cobalt	[0.009040]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	[10.73]	50.00	6.980	ug/L	!ib
Lead	[0.008812]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.03352]	0.5000	0.02100	ug/L	!ib
Vanadium	[0.09647]	1.000	0.08283	ug/L	!ib
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	744839	-3.99
Scandium	409443	435876	6.46
Germanium	101712	94172	-7.41
Indium	559595	508641	-9.11
Bismuth	426621	382921	-10.24

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726016 File : c2310016 Time : 23-MAR-2006 12:16
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	94990	ug/L	-5		
Arsenic	100.0	97.80	ug/L	-2	20	
Cadmium	100.0	79.77	ug/L	-20	20	
Calcium	300000	287400	ug/L	-4		
Chromium	200.0	203.1	ug/L	2	20	
Cobalt	200.0	209.6	ug/L	5	20	
Copper	200.0	185.6	ug/L	-7	20	
Iron	250000	231900	ug/L	-7		
Magnesium	100000	100700	ug/L	1		
Manganese	200.0	207.9	ug/L	4	20	
Molybdenum	2000	1860	ug/L	-7		
Nickel	200.0	198.2	ug/L	-1	20	
Potassium	100000	96980	ug/L	-3		
Selenium	100.0	88.19	ug/L	-12	20	
Silver	50.00	43.22	ug/L	-14	20	
Sodium	250000	249200	ug/L	0		
Vanadium	200.0	206.9	ug/L	3	20	
Zinc	100.0	89.72	ug/L	-10	20	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Scandium	409443	370781	-9.44
Germanium	101712	92534	-9.02

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726015 File : c2310015 Time : 23-MAR-2006 12:10
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.485	0.2500	ug/L	
Arsenic	1.167	0.5000	ug/L	
Barium	1.030	0.2500	ug/L	
Beryllium	[0.01761]	0.2500	ug/L	
Cadmium	[0]	0.2500	ug/L	
Chromium	1.605	0.5000	ug/L	
Cobalt	2.917	0.2500	ug/L	
Copper	2.135	0.5000	ug/L	
Lead	1.221	0.2500	ug/L	
Manganese	1.075	0.2500	ug/L	
Nickel	2.571	0.2500	ug/L	
Selenium	0.5569	0.5000	ug/L	
Silver	[0.1332]	0.2500	ug/L	
Thallium	[0.1340]	0.5000	ug/L	
Vanadium	[0.3470]	1.000	ug/L	
Zinc	2.452	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	95120	ug/L	95
Calcium	300000	297700	ug/L	99
Iron	250000	236300	ug/L	95
Magnesium	100000	101100	ug/L	101
Molybdenum	2000	1926	ug/L	96
Potassium	100000	99720	ug/L	100
Sodium	250000	247900	ug/L	99

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	662115	-14.65
Scandium	409443	368392	-10.03
Germanium	101712	90684	-10.84
Indium	559595	432081	-22.79
Bismuth	426621	313872	-26.43

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726016 File : c2310016 Time : 23-MAR-2006 12:16
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	94990	ug/L	-5		
Arsenic	100.0	97.80	ug/L	-2	20	
Cadmium	100.0	79.77	ug/L	-20	20	
Calcium	300000	287400	ug/L	-4		
Chromium	200.0	203.1	ug/L	2	20	
Cobalt	200.0	209.6	ug/L	5	20	
Copper	200.0	185.6	ug/L	-7	20	
Iron	250000	231900	ug/L	-7		
Magnesium	100000	100700	ug/L	1		
Manganese	200.0	207.9	ug/L	4	20	
Molybdenum	2000	1860	ug/L	-7		
Nickel	200.0	198.2	ug/L	-1	20	
Potassium	100000	96980	ug/L	-3		
Selenium	100.0	88.19	ug/L	-12	20	
Silver	50.00	43.22	ug/L	-14	20	
Sodium	250000	249200	ug/L	0		
Vanadium	200.0	206.9	ug/L	3	20	
Zinc	100.0	89.72	ug/L	-10	20	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Scandium	409443	370781	-9.44
Germanium	101712	92534	-9.02

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726060 File : c2310060 Time : 23-MAR-2006 16:25
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.139	0.2500	ug/L	
Arsenic	1.007	0.5000	ug/L	
Barium	1.001	0.2500	ug/L	
Beryllium	[0.01393]	0.2500	ug/L	
Cadmium	[0]	0.2500	ug/L	
Chromium	1.577	0.5000	ug/L	
Cobalt	2.875	0.2500	ug/L	
Copper	2.123	0.5000	ug/L	
Lead	1.230	0.2500	ug/L	
Manganese	1.076	0.2500	ug/L	
Nickel	2.416	0.2500	ug/L	
Selenium	0.6615	0.5000	ug/L	
Silver	[0.1238]	0.2500	ug/L	
Thallium	0.6952	0.5000	ug/L	
Vanadium	[0.3343]	1.000	ug/L	
Zinc	2.547	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	93860	ug/L	94
Calcium	300000	288700	ug/L	96
Iron	250000	237900	ug/L	95
Magnesium	100000	100300	ug/L	100
Molybdenum	2000	1941	ug/L	97
Potassium	100000	95390	ug/L	95
Sodium	250000	250800	ug/L	100

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	653489	-15.77
Scandium	409443	353362	-13.70
Germanium	101712	93284	-8.29
Indium	559595	469047	-16.18
Bismuth	426621	356703	-16.39

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726061 File : c2310061 Time : 23-MAR-2006 16:30
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	93070	ug/L	-7		
Arsenic	100.0	105.4	ug/L	5	20	
Cadmium	100.0	94.86	ug/L	-5	20	
Calcium	300000	281400	ug/L	-6		
Chromium	200.0	231.3	ug/L	16	20	
Cobalt	200.0	232.1	ug/L	16	20	
Copper	200.0	201.4	ug/L	1	20	
Iron	250000	234700	ug/L	-6		
Magnesium	100000	98870	ug/L	-1		
Manganese	200.0	236.0	ug/L	18	20	
Molybdenum	2000	1864	ug/L	-7		
Nickel	200.0	215.9	ug/L	8	20	
Potassium	100000	94400	ug/L	-6		
Selenium	100.0	94.77	ug/L	-5	20	
Silver	50.00	48.33	ug/L	-3	20	
Sodium	250000	243200	ug/L	-3		
Vanadium	200.0	233.4	ug/L	17	20	
Zinc	100.0	96.37	ug/L	-4	20	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Scandium	409443	358112	-12.54
Germanium	101712	87421	-14.05

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726122 File : c2310122 Time : 23-MAR-2006 22:13
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.143	0.2500	ug/L	
Arsenic	1.295	0.5000	ug/L	
Barium	0.8842	0.2500	ug/L	
Beryllium	[0.01148]	0.2500	ug/L	
Cadmium	[0]	0.2500	ug/L	
Chromium	1.634	0.5000	ug/L	
Cobalt	2.821	0.2500	ug/L	
Copper	2.139	0.5000	ug/L	
Lead	1.189	0.2500	ug/L	
Manganese	1.103	0.2500	ug/L	
Nickel	2.493	0.2500	ug/L	
Selenium	0.6480	0.5000	ug/L	
Silver	[0.1217]	0.2500	ug/L	
Thallium	[0.04273]	0.5000	ug/L	
Vanadium	[0.4068]	1.000	ug/L	
Zinc	2.507	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	93050	ug/L	93
Calcium	300000	288100	ug/L	96
Iron	250000	232900	ug/L	93
Magnesium	100000	98060	ug/L	98
Molybdenum	2000	1900	ug/L	95
Potassium	100000	97290	ug/L	97
Sodium	250000	242300	ug/L	97

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	620694	-19.99
Scandium	409443	353850	-13.58
Germanium	101712	86443	-15.01
Indium	559595	421554	-24.67
Bismuth	426621	307559	-27.91

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726123 File : c2310123 Time : 23-MAR-2006 22:18
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	91190	ug/L	-9		
Arsenic	100.0	103.9	ug/L	4	20	
Cadmium	100.0	91.81	ug/L	-8	20	
Calcium	300000	279200	ug/L	-7		
Chromium	200.0	224.7	ug/L	12	20	
Cobalt	200.0	225.8	ug/L	13	20	
Copper	200.0	197.4	ug/L	-1	20	
Iron	250000	229300	ug/L	-8		
Magnesium	100000	96100	ug/L	-4		
Manganese	200.0	233.0	ug/L	17	20	
Molybdenum	2000	1832	ug/L	-8		
Nickel	200.0	211.7	ug/L	6	20	
Potassium	100000	93710	ug/L	-6		
Selenium	100.0	93.37	ug/L	-7	20	
Silver	50.00	47.04	ug/L	-6	20	
Sodium	250000	238400	ug/L	-5		
Vanadium	200.0	232.0	ug/L	16	20	
Zinc	100.0	94.13	ug/L	-6	20	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Scandium	409443	360653	-11.92
Germanium	101712	88149	-13.33

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726171 File : c2310171 Time : 24-MAR-2006 02:46
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.187	0.2500	ug/L	
Arsenic	0.7643	0.5000	ug/L	
Barium	0.9145	0.2500	ug/L	
Beryllium	[0.01019]	0.2500	ug/L	
Cadmium	[0.1125]	0.2500	ug/L	
Chromium	1.634	0.5000	ug/L	
Cobalt	2.747	0.2500	ug/L	
Copper	2.166	0.5000	ug/L	
Lead	1.205	0.2500	ug/L	
Manganese	1.061	0.2500	ug/L	
Nickel	2.494	0.2500	ug/L	
Selenium	0.5914	0.5000	ug/L	
Silver	[0.1193]	0.2500	ug/L	
Thallium	[0.04487]	0.5000	ug/L	
Vanadium	[0.3104]	1.000	ug/L	
Zinc	2.239	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	91450	ug/L	91
Calcium	300000	286600	ug/L	96
Iron	250000	231700	ug/L	93
Magnesium	100000	95420	ug/L	95
Molybdenum	2000	1881	ug/L	94
Potassium	100000	97260	ug/L	97
Sodium	250000	233600	ug/L	93

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	585680	-24.51
Scandium	409443	358028	-12.56
Germanium	101712	83891	-17.52
Indium	559595	401165	-28.31
Bismuth	426621	288337	-32.41

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726172 File : c2310172 Time : 24-MAR-2006 02:52
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	90050	ug/L	-10		
Arsenic	100.0	103.9	ug/L	4	20	
Cadmium	100.0	90.94	ug/L	-9	20	
Calcium	300000	281000	ug/L	-6		
Chromium	200.0	230.1	ug/L	15	20	
Cobalt	200.0	225.9	ug/L	13	20	
Copper	200.0	196.2	ug/L	-2	20	
Iron	250000	229100	ug/L	-8		
Magnesium	100000	93660	ug/L	-6		
Manganese	200.0	235.4	ug/L	18	20	
Molybdenum	2000	1837	ug/L	-8		
Nickel	200.0	210.6	ug/L	5	20	
Potassium	100000	96940	ug/L	-3		
Selenium	100.0	94.25	ug/L	-6	20	
Silver	50.00	46.70	ug/L	-7	20	
Sodium	250000	228700	ug/L	-9		
Vanadium	200.0	235.7	ug/L	18	20	
Zinc	100.0	92.58	ug/L	-7	20	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Scandium	409443	366464	-10.50
Germanium	101712	84356	-17.06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56118726 Instrument: MET05 Agilent ICP-MS Begun: 23-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	c2310001	TUN				23-MAR-2006 10:46	1.0	1.0				1	
003	c2310003	ICALBLK	std-blk			23-MAR-2006 10:58	1.0	1.0				2	
004	c2310004	ICAL	CS1			23-MAR-2006 11:03	1.0	1.0				3	
005	c2310005	ICAL	CS2			23-MAR-2006 11:09	1.0	1.0				4	
006	c2310006	ICAL	CS3			23-MAR-2006 11:15	1.0	1.0				5	
007	c2310007	ICAL	CS4			23-MAR-2006 11:20	1.0	1.0				6	
008	c2310008	ICAL	CS5			23-MAR-2006 11:26	1.0	1.0				7	
009	c2310009	ICAL	CS6			23-MAR-2006 11:31	1.0	1.0				8	
012	c2310012	ICV				23-MAR-2006 11:53	1.0	1.0			1	9 2	
014	c2310014	ICB				23-MAR-2006 12:04	1.0	1.0			1	2	
015	c2310015	ICSA				23-MAR-2006 12:10	1.0	1.0			1	10 2	7:CA=297700
016	c2310016	ICSAB				23-MAR-2006 12:16	1.0	1.0			1	11 2	11:CA=287400
018	c2310018	SAMPLE	185385-009	111391	Filtra	23-MAR-2006 12:27	20.0	1.0			1	2	
019	c2310019	SAMPLE	185385-011	111391	Filtra	23-MAR-2006 12:32	1.0	1.0			1	2	1:NA=26590.0
020	c2310020	SAMPLE	185385-017	111391	Filtra	23-MAR-2006 12:38	2.0	1.0			1	2	3:NA=34170.0
022	c2310022	BLANK	QC331373	111276	Filtra	23-MAR-2006 12:49	1.0	1.0			1	2	
023	c2310023	BS	QC331374	111276	Filtra	23-MAR-2006 12:54	1.0	1.0			1	2	
024	c2310024	BSD	QC331375	111276	Filtra	23-MAR-2006 13:00	1.0	1.0			1	2	
025	c2310025	MSS	185457-009	111276	Filtra	23-MAR-2006 13:05	1.0	1.0	5		1	2	4:NA=107400
026	c2310026	SER	QC331378	111276	Filtra	23-MAR-2006 13:11	5.0	1.0			1	2	2:NA=22680.0
028	c2310028	CCV				23-MAR-2006 13:22	1.0	1.0			1	12 2	
030	c2310030	CCB				23-MAR-2006 13:33	1.0	1.0			1	2	
031	c2310031	MSS	185457-009	111276	Filtra	23-MAR-2006 13:39	1.0	1.0	4		1	2	4:NA=104100
032	c2310032	MSS	185457-009	111276	Filtra	23-MAR-2006 13:45	10.0	1.0			1	2	
033	c2310033	SER	QC331378	111276	Filtra	23-MAR-2006 13:50	50.0	1.0		1	1	2	
034	c2310034	MS	QC331376	111276	Filtra	23-MAR-2006 13:56	1.0	1.0	2		1	2	6:NA=118900
035	c2310035	MSD	QC331377	111276	Filtra	23-MAR-2006 14:01	1.0	1.0	2		1	2	6:NA=116900
036	c2310036	PDS	QC331379	111276	Filtra	23-MAR-2006 14:07	1.0	1.0	2		1	13 2	6:NA=115500
037	c2310037	MS	QC331376	111276	Filtra	23-MAR-2006 14:12	10.0	1.0			1	2	
038	c2310038	MSD	QC331377	111276	Filtra	23-MAR-2006 14:18	10.0	1.0		2	1	2	
039	c2310039	PDS	QC331379	111276	Filtra	23-MAR-2006 14:23	10.0	1.0			1	13 2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [illegible] Date: 3/23/6

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56118726 Instrument: MET05 Agilent ICP-MS Begun: 23-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
040	c2310040	SAMPLE	185381-011	111276	Filtra	23-MAR-2006 14:29	1.0	1.0	3		1	2	3:NA=115700
042	c2310042	CCV				23-MAR-2006 14:40	1.0	1.0			1	12 2	
044	c2310044	CCB				23-MAR-2006 14:51	1.0	1.0			1	2	
045	c2310045	SAMPLE	185381-012	111276	Filtra	23-MAR-2006 14:57	1.0	1.0	3		1	2	3:NA=116100
046	c2310046	SAMPLE	185381-013	111276	Filtra	23-MAR-2006 15:03	1.0	1.0	3		1	2	3:NA=178400
047	c2310047	SAMPLE	185381-014	111276	Filtra	23-MAR-2006 15:08	1.0	1.0	4		1	2	4:NA=175100
048	c2310048	SAMPLE	185381-011	111276	Filtra	23-MAR-2006 15:14	10.0	1.0			1	2	
049	c2310049	SAMPLE	185381-012	111276	Filtra	23-MAR-2006 15:19	10.0	1.0			1	2	
050	c2310050	BLANK	QC332716	111602	Filtra	23-MAR-2006 15:25	1.0	1.0			1	2	
051	c2310051	BS	QC332717	111602	Filtra	23-MAR-2006 15:31	1.0	1.0			1	2	
052	c2310052	BSD	QC332718	111602	Filtra	23-MAR-2006 15:36	1.0	1.0			1	2	
053	c2310053	CCV				23-MAR-2006 15:42	1.0	1.0			1	12 2	
054	c2310054	CCB				23-MAR-2006 15:51	1.0	1.0			1	2	
055	c2310055	MSS	185721-001	111602	Filtra	23-MAR-2006 15:57	5.0	1.0	3		1	2	3:MG=112060
056	c2310056	SER	QC332721	111602	Filtra	23-MAR-2006 16:03	25.0	1.0			1	2	2:NA=192500
057	c2310057	MS	QC332719	111602	Filtra	23-MAR-2006 16:08	5.0	1.0			1	2	3:MG=110060
058	c2310058	MSD	QC332720	111602	Filtra	23-MAR-2006 16:14	5.0	1.0			1	2	3:MG=117900
059	c2310059	PDS	QC332722	111602	Filtra	23-MAR-2006 16:19	5.0	1.0			1	13 2	3:MG=120200
060	c2310060	ICSA				23-MAR-2006 16:25	1.0	1.0			1	10 2	7:CA=288700
061	c2310061	ICSAB				23-MAR-2006 16:30	1.0	1.0			1	11 2	13:CA=281400
063	c2310063	CCV				23-MAR-2006 16:41	1.0	1.0			1	12 2	
065	c2310065	CCB				23-MAR-2006 16:52	1.0	1.0			1	2	
066	c2310066	TUN				23-MAR-2006 16:59	1.0	1.0				1	
067	c2310067	BLANK	QC332723	111603	Filtra	23-MAR-2006 17:05	1.0	1.0			1	2	
068	c2310068	BS	QC332724	111603	Filtra	23-MAR-2006 17:11	1.0	1.0			1	2	
069	c2310069	BSD	QC332725	111603	Filtra	23-MAR-2006 17:16	1.0	1.0			1	2	
070	c2310070	MSS	185457-027	111603	Filtra	23-MAR-2006 17:22	1.0	1.0	3		1	2	3:NA=60240.0
071	c2310071	SER	QC332728	111603	Filtra	23-MAR-2006 17:28	5.0	1.0		1	1	2	
072	c2310072	MS	QC332726	111603	Filtra	23-MAR-2006 17:33	1.0	1.0			1	2	3:NA=67630.0
073	c2310073	MSD	QC332727	111603	Filtra	23-MAR-2006 17:39	1.0	1.0			1	2	3:NA=69230.0
074	c2310074	SAMPLE	185381-013	111276	Filtra	23-MAR-2006 17:44	10.0	1.0			1	2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: Meiwa Date: 3/23/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56118726 Instrument: MET05 Agilent ICP-MS Begun: 23-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
075	c2310075	SAMPLE	185381-014	111276	Filtra	23-MAR-2006 17:50	2.0	1.0	3		1	2	3:NA=86450.0
076	c2310076	SAMPLE	185381-014	111276	Filtra	23-MAR-2006 17:55	10.0	1.0			1	2	
078	c2310078	CCV				23-MAR-2006 18:07	1.0	1.0			1	12 2	
080	c2310080	CCB				23-MAR-2006 18:18	1.0	1.0			1	2	
081	c2310081	PDS	QC332729	111603	Filtra	23-MAR-2006 18:23	1.0	1.0			1	13 2	3:NA=67240.0
082	c2310082	MSS	185457-027	111603	Filtra	23-MAR-2006 18:29	10.0	1.0			1	2	
083	c2310083	SER	QC332728	111603	Filtra	23-MAR-2006 18:35	50.0	1.0			1	2	
084	c2310084	MS	QC332726	111603	Filtra	23-MAR-2006 18:40	10.0	1.0			1	2	
085	c2310085	MSD	QC332727	111603	Filtra	23-MAR-2006 18:46	10.0	1.0		1	1	2	
086	c2310086	PDS	QC332729	111603	Filtra	23-MAR-2006 18:52	10.0	1.0			1	13 2	
087	c2310087	SAMPLE	185456-001	111603	Filtra	23-MAR-2006 18:57	1.0	1.0			1	2	3:CA=29510.0
088	c2310088	SAMPLE	185456-002	111603	Filtra	23-MAR-2006 19:03	1.0	1.0	2		1	2	1:NA=178500
089	c2310089	SAMPLE	185456-003	111603	Filtra	23-MAR-2006 19:08	1.0	1.0			1	2	1:NA=23790.0
090	c2310090	SAMPLE	185456-004	111603	Filtra	23-MAR-2006 19:14	1.0	1.0			1	2	1:NA=47040.0
092	c2310092	CCV				23-MAR-2006 19:25	1.0	1.0			1	12 2	
094	c2310094	CCB				23-MAR-2006 19:36	1.0	1.0			1	2	
095	c2310095	SAMPLE	185456-005	111603	Filtra	23-MAR-2006 19:42	1.0	1.0			1	2	3:NA=34380.0
096	c2310096	SAMPLE	185456-006	111603	Filtra	23-MAR-2006 19:47	1.0	1.0			1	2	3:NA=46790.0
097	c2310097	SAMPLE	185456-007	111603	Filtra	23-MAR-2006 19:53	1.0	1.0	1		1	2	3:NA=32510.0
098	c2310098	SAMPLE	185456-008	111603	Filtra	23-MAR-2006 19:58	1.0	1.0			1	2	1:NA=177300
099	c2310099	SAMPLE	185456-009	111603	Filtra	23-MAR-2006 20:04	1.0	1.0	1		1	2	3:NA=26500.0
100	c2310100	SAMPLE	185381-003	111241	Filtra	23-MAR-2006 20:10	10.0	1.0			1	2	
101	c2310101	SAMPLE	185381-004	111241	Filtra	23-MAR-2006 20:15	10.0	1.0			1	2	
102	c2310102	SAMPLE	185381-005	111241	Filtra	23-MAR-2006 20:21	20.0	1.0			1	2	
103	c2310103	SAMPLE	185381-006	111241	Filtra	23-MAR-2006 20:26	20.0	1.0			1	2	
104	c2310104	SAMPLE	185381-007	111241	Filtra	23-MAR-2006 20:32	10.0	1.0			1	2	
106	c2310106	CCV				23-MAR-2006 20:43	1.0	1.0			1	12 2	
108	c2310108	CCB				23-MAR-2006 20:54	1.0	1.0			1	2	
109	c2310109	SAMPLE	185381-008	111241	Filtra	23-MAR-2006 21:00	40.0	1.0			1	2	
110	c2310110	SAMPLE	185381-009	111241	Filtra	23-MAR-2006 21:06	40.0	1.0			1	2	
111	c2310111	SAMPLE	185381-010	111241	Filtra	23-MAR-2006 21:11	20.0	1.0			1	2	

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Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [signature] Date: 3/23/6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56118726 Instrument: MET05 Agilent ICP-MS Begun: 23-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
112	c2310112	SAMPLE	185381-015	111241	Filtra	23-MAR-2006 21:17	10.0	1.0			1	2	
113	c2310113	SAMPLE	185381-016	111241	Filtra	23-MAR-2006 21:22	20.0	1.0			1	2	
114	c2310114	SAMPLE	185381-017	111241	Filtra	23-MAR-2006 21:28	10.0	1.0			1	2	
115	c2310115	SAMPLE	185381-018	111241	Filtra	23-MAR-2006 21:33	10.0	1.0			1	2	
116	c2310116	SAMPLE	185381-019	111241	Filtra	23-MAR-2006 21:39	10.0	1.0			1	2	
117	c2310117	SAMPLE	185381-020	111241	Filtra	23-MAR-2006 21:45	10.0	1.0			1	2	
119	c2310119	CCV				23-MAR-2006 21:56	1.0	1.0			1	12 2	
121	c2310121	CCB				23-MAR-2006 22:07	1.0	1.0			1	2	
122	c2310122	ICSA				23-MAR-2006 22:13	1.0	1.0			1	10 2	7:CA=288100
123	c2310123	ICSAB				23-MAR-2006 22:18	1.0	1.0			1	11 2	12:CA=279200
125	c2310125	SAMPLE	185457-014	111603	Filtra	23-MAR-2006 22:29	1.0	1.0	5		1	2	6:NA=85300.0
126	c2310126	SAMPLE	185457-021	111603	Filtra	23-MAR-2006 22:35	1.0	1.0	3		1	2	3:NA=58680.0
127	c2310127	SAMPLE	185457-022	111603	Filtra	23-MAR-2006 22:40	1.0	1.0	3		1	2	3:NA=49070.0
128	c2310128	SAMPLE	185457-023	111603	Filtra	23-MAR-2006 22:46	1.0	1.0	4		1	2	4:MG=78400.0
129	c2310129	SAMPLE	185457-024	111603	Filtra	23-MAR-2006 22:51	1.0	1.0	4		1	2	4:MG=76500.0
130	c2310130	SAMPLE	185457-025	111603	Filtra	23-MAR-2006 22:57	1.0	1.0	1		1	2	1:NA=282100
131	c2310131	SAMPLE	185457-026	111603	Filtra	23-MAR-2006 23:03	1.0	1.0	3		1	2	3:NA=49570.0
132	c2310132	SAMPLE	185457-010	111276	Filtra	23-MAR-2006 23:08	1.0	1.0	4		1	2	4:CA=86220.0
134	c2310134	CCV				23-MAR-2006 23:19	1.0	1.0			1	12 2	
136	c2310136	CCB				23-MAR-2006 23:30	1.0	1.0			1	2	
137	c2310137	SAMPLE	185457-011	111276	Filtra	23-MAR-2006 23:36	1.0	1.0	6		1	2	7:NA=76730.0
138	c2310138	SAMPLE	185457-012	111276	Filtra	23-MAR-2006 23:42	1.0	1.0	6		1	2	7:NA=76390.0
139	c2310139	SAMPLE	185457-013	111276	Filtra	23-MAR-2006 23:47	1.0	1.0	4		1	2	4:NA=187400
140	c2310140	SAMPLE	185457-017	111276	Filtra	23-MAR-2006 23:53	1.0	1.0	4		1	2	5:CA=147800
141	c2310141	SAMPLE	185393-001	111276	Water	23-MAR-2006 23:58	1.0	1.0	1		1	2	4:NA=113600
142	c2310142	SAMPLE	185393-002	111276	Water	24-MAR-2006 00:04	1.0	1.0			1	2	2:NA=59640.0
143	c2310143	SAMPLE	185393-003	111276	Water	24-MAR-2006 00:09	1.0	1.0			1	2	4:NA=83210.0
144	c2310144	SAMPLE	185393-004	111276	Water	24-MAR-2006 00:15	1.0	1.0	1		1	2	4:NA=56840.0
145	c2310145	SAMPLE	185393-005	111276	Water	24-MAR-2006 00:20	1.0	1.0			1	2	3:NA=89870.0
146	c2310146	SAMPLE	185393-003	111276	Water	24-MAR-2006 00:26	1.0	1.0	1		1	2	2:NA=62050.0
148	c2310148	CCV				24-MAR-2006 00:37	1.0	1.0			1	12 2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [illegible] Date: 3/23/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56118726 Instrument: MET05 Agilent ICP-MS Begun: 23-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
150	c2310150	CCB				24-MAR-2006 00:48	1.0	1.0	1	2	
151	c2310151	SAMPLE	185457-014	111603	Filtra	24-MAR-2006 00:54	20.0	1.0	1	2	
152	c2310152	SAMPLE	185457-021	111603	Filtra	24-MAR-2006 01:00	20.0	1.0	1	2	
153	c2310153	SAMPLE	185457-022	111603	Filtra	24-MAR-2006 01:05	20.0	1.0	1	2	
154	c2310154	SAMPLE	185457-023	111603	Filtra	24-MAR-2006 01:11	20.0	1.0	1	2	
155	c2310155	SAMPLE	185457-024	111603	Filtra	24-MAR-2006 01:16	20.0	1.0	1	2	
156	c2310156	SAMPLE	185457-025	111603	Filtra	24-MAR-2006 01:22	20.0	1.0	1	2	
157	c2310157	SAMPLE	185457-026	111603	Filtra	24-MAR-2006 01:28	20.0	1.0	1	2	
158	c2310158	SAMPLE	185457-010	111276	Filtra	24-MAR-2006 01:33	20.0	1.0	1	2	
159	c2310159	SAMPLE	185457-011	111276	Filtra	24-MAR-2006 01:39	20.0	1.0	1	2	
160	c2310160	SAMPLE	185457-012	111276	Filtra	24-MAR-2006 01:45	20.0	1.0	1	2	
162	c2310162	CCV				24-MAR-2006 01:56	1.0	1.0	1	12 2	
164	c2310164	CCB				24-MAR-2006 02:07	1.0	1.0	1	2	
165	c2310165	SAMPLE	185457-013	111276	Filtra	24-MAR-2006 02:13	20.0	1.0	1	2	
166	c2310166	SAMPLE	185457-017	111276	Filtra	24-MAR-2006 02:18	20.0	1.0	1	2	
168	c2310168	CCV				24-MAR-2006 02:29	1.0	1.0	1	12 2	411
170	c2310170	CCB				24-MAR-2006 02:41	1.0	1.0	1	2	
171	c2310171	ICSA				24-MAR-2006 02:46	1.0	1.0	1	10 2	7:CA=286600
172	c2310172	ICSAB				24-MAR-2006 02:52	1.0	1.0	1	11 2	12:CA=281000
175	c2310175	CCV				24-MAR-2006 03:08	1.0	1.0	1	12 2	
177	c2310177	CCB				24-MAR-2006 03:20	1.0	1.0	1	2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [illegible] Date: 3/23/6

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185381 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL	V	ZN
185381-001	MET05	03/22/06 16:08	1.0	+	+	+			+	+	+		+	+	+	+	+	+	+			+		+	+
185381-002	MET05	03/22/06 19:24	1.0	+	+	+			+	+	+		+	+	+	+	+	+	+			+		+	+
185381-003	MET05	03/22/06 19:30	1.0	+	+	+			+		+		+	+	+		+	+						+	+
185381-003	MET05	03/23/06 20:10	10.0							+						+			+			+			
185381-004	MET05	03/22/06 19:36	1.0	+	+	+			+		+		+	+	+		+	+	+					+	+
185381-004	MET05	03/23/06 20:15	10.0							+						+						+			
185381-005	MET05	03/22/06 19:41	1.0	+	+	+			+		+		+		+			+	+					+	+
185381-005	MET05	03/23/06 20:21	20.0							+				+		+	+					+			
185381-006	MET05	03/22/06 19:47	1.0	+	+	+			+		+		+		+			+	+					+	+
185381-006	MET05	03/23/06 20:26	20.0							+				+		+	+					+			
185381-007	MET05	03/22/06 19:52	1.0	+	+	+			+		+		+	+	+		+	+	+					+	+
185381-007	MET05	03/23/06 20:32	10.0							+						+						+			
185381-008	MET05	03/22/06 19:58	1.0	+		+			+		+		+	+	+		+	+	+						+
185381-008	MET05	03/23/06 21:00	40.0							+						+						+			
185381-009	MET05	03/22/06 20:03	1.0	+		+			+		+		+	+	+		+	+	+						+
185381-009	MET05	03/23/06 21:06	40.0							+						+						+			
185381-010	MET05	03/22/06 20:09	1.0	+		+			+		+		+	+	+		+	+	+						+
185381-010	MET05	03/23/06 21:11	20.0							+						+						+			
185381-011	MET05	03/23/06 14:29	1.0	+	+	+	+	+	+		+	+	+	+	+		+	+	+	+	+		+	+	+
185381-011	MET05	03/23/06 15:14	10.0							+						+						+			
185381-012	MET05	03/23/06 14:57	1.0	+	+	+	+	+	+		+	+	+	+	+		+	+	+	+	+		+	+	+
185381-012	MET05	03/23/06 15:19	10.0							+						+						+			
185381-013	MET05	03/23/06 15:03	1.0	+	+	+	+	+	+		+	+	+	+	+		+	+	+	+	+		+	+	+
185381-013	MET05	03/23/06 17:44	10.0							+						+						+			
185381-014	MET05	03/23/06 15:08	1.0		+	+	+	+	+		+	+	+	+	+		+	+	+	+	+		+	+	+
185381-014	MET05	03/23/06 17:50	2.0	+																					
185381-014	MET05	03/23/06 17:55	10.0							+						+						+			
185381-015	MET05	03/22/06 20:14	1.0	+		+			+		+		+	+	+			+	+						+
185381-015	MET05	03/23/06 21:17	10.0							+						+	+					+			
185381-016	MET05	03/22/06 20:48	1.0	+		+			+		+		+	+	+			+	+						+
185381-016	MET05	03/23/06 21:22	20.0							+						+	+					+			
185381-017	MET05	03/22/06 20:54	1.0	+		+			+		+		+	+	+			+	+						+

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185381 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL	V	ZN
185381-017	MET05	03/23/06 21:28	10.0							+						+	+					+			
185381-018	MET05	03/22/06 20:59	1.0	+		+			+		+		+	+	+			+	+						+
185381-018	MET05	03/23/06 21:33	10.0							+						+	+					+			
185381-019	MET05	03/22/06 21:05	1.0	+		+			+		+		+	+	+		+	+	+						+
185381-019	MET05	03/23/06 21:39	10.0							+						+						+			
185381-020	MET05	03/22/06 21:11	1.0	+		+			+		+		+	+	+		+	+	+						+
185381-020	MET05	03/23/06 21:45	10.0							+						+						+			
QC331212	MET05	03/22/06 15:52	1.0	+	+	+			+	+	+		+	+	+	+	+	+	+			+		+	+
QC331213	MET05	03/22/06 15:57	1.0	+	+	+			+	+	+		+	+	+	+	+	+	+			+		+	+
QC331214	MET05	03/22/06 16:03	1.0	+	+	+			+	+	+		+	+	+	+	+	+	+			+		+	+
QC331215	MET05	03/22/06 16:19	1.0	+	+	+			+	+	+		+	+	+	+	+	+	+			+		+	+
QC331216	MET05	03/22/06 16:25	1.0	+	+	+			+	+	+		+	+	+	+	+	+	+			+		+	+
QC331217	MET05	03/22/06 16:14	5.0	+	+	+			+	+	+		+	+	+	+	+	+	+			+		+	+
QC331218	MET05	03/22/06 18:40	1.0	+	+	+			+	+	+		+	+	+	+	+	+	+			+		+	+
QC331373	MET05	03/23/06 12:49	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC331374	MET05	03/23/06 12:54	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC331375	MET05	03/23/06 13:00	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC331376	MET05	03/23/06 13:56	1.0	+	+	+		+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+
QC331376	MET05	03/23/06 14:12	10.0				+							+											
QC331377	MET05	03/23/06 14:01	1.0	+	+	+		+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+
QC331377	MET05	03/23/06 14:18	10.0				+							+											
QC331378	MET05	03/23/06 13:11	5.0	+	+	+	+	+	+		+	+	+	+	+			+	+	+	+			+	+
QC331378	MET05	03/23/06 13:50	50.0							+						+	+					+	+		
QC331379	MET05	03/23/06 14:07	1.0	+	+	+		+	+		+	+	+		+			+	+	+	+		+	+	+
QC331379	MET05	03/23/06 14:23	10.0				+			+				+		+	+					+			

Curtis & Tompkins Laboratories **Sample Preparation Summary** **22-MAR-2006 17:01**

Batch Number : 111241
Date Extracted: 13-MAR-2006
Extracted by : Kevin Gaines
Prep Method : 200.8

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S2309
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185381-001		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
185381-002		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
185381-003		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
185381-004		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
185381-005		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
185381-006		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
185381-007		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
185381-008		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185381-009		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185381-010		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185381-015		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185381-016		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185381-017		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185381-018		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185381-019		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185381-020		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
QC331212	BLANK		Filtrate	50	mL	50	1.000000	1					ICAP		
QC331213	BS		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331214	BSD		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331215	MS	of 185381-001	Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331216	MSD	of 185381-001	Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331217	SER	of 185381-001	Filtrate	50	mL	50	1.000000	1					ICAP		
QC331218	PDS	of 185381-001	Filtrate	50	mL	50	1.000000	1					ICAP		

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Prep Chemist: MW for ICG Reviewed By: MW Date: 3/24/6

Relinquished By: MW Received By: MW Date: 3/24/6

Water Digestion for ICP-MS

Curtis & Tompkins, Ltd.

LIMS Batch #: 11124
Date Digested: 3/13/06
Digested by: KLF

Digestion Method
☑ EPA 200.8 for ICP-MS
☐ _____

BK 2288
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Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BLK	50	50	N	
BS				
BSD				
MS -01J				FIELD FILTERED
MSD 01				
185357-01				
-02				
-03G				
-04D				
-05G				
-06				
-07D				
-08A				
-09				
-10				
-15G				
-16				
-17				
-18				
-19J				
-20J				

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90-95 degrees C)	95	KLF 3/13
.5 mL of spike solution was added to all spikes	32309	
concentrated HCl	24038 BAKER	
concentrated HNO3	35040	
☐ filtered thru' Whatman # 541		

3/13/06

Continued from page ___
Continued on page 1

Kristin A. Carlson 3/13/06

Extraction Chemist/Date

Curtis & Tompkins Laboratories **Sample Preparation Summary** **14-MAR-2006 10:52**

Batch Number : 111276
Date Extracted: 14-MAR-2006
Extracted by : Kevin Gaines
Prep Method : 200.8

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S2309
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185381-011			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185381-012			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185381-013			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185381-014			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185393-001			Union Sanitary District	Water	50	mL	50	1.000000	1					AG, AS, CD, (more)		
185393-002			Union Sanitary District	Water	50	mL	50	1.000000	1					AG, AS, CD, (more)		
185393-003			Union Sanitary District	Water	50	mL	50	1.000000	1					AG, AS, CD, (more)		
185393-004			Union Sanitary District	Water	50	mL	50	1.000000	1					AG, AS, CD, (more)		
185393-005			Union Sanitary District	Water	50	mL	50	1.000000	1					AG, AS, CD, (more)		
185457-009			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185457-010			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185457-011			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185457-012			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185457-013			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185457-017			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
QC331373	BLANK			Filtrate	50	mL	50	1.000000	1					ICAP		
QC331374	BS			Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331375	BSD			Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331376	MS	of 185457-009		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331377	MSD	of 185457-009		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331378	SER	of 185457-009		Filtrate	50	mL	50	1.000000	1					ICAP		
QC331379	PDS	of 185457-009		Filtrate	50	mL	50	1.000000	1					ICAP		

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Prep Chemist: [signature] 3/14/06 Reviewed By: MW Date: 3/23/6

Relinquished By: [signature] 3/14/06 Received By: MW Date: 3/23/6

Water Digestion for ICP-MS Curtis & Tompkins, Ltd.

LIMS Batch #: 111276
Date Digested: 3/14/06
Digested by: [illegible]

Digestion Method
☒ EPA 200.8 for ICP-MS
☐ _____

BK 2288
Page 8

Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BK	50	50		
BS				
BSD				
MS -09AA				FIELD FILTERED
MSD-09				
185457-09				
-10 I				
-11				
-12				
-13				
-17				
381-11 G				
-12				
-13				
-14				
393-01 B				
-02				
-03				
-04				
-05				

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90-95 degrees C)	95	[illegible] 3/14
.5 mL of spike solution was added to all spikes	82309	
concentrated HCl	24034 BAKER	
concentrated HNO3	35040	
☐ filtered thru' Whatman # 541		

[illegible]
Extraction Chemist / Date

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Continued from page ___
Continued on page ___

[illegible] 3/14/6
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 6020 Water 200.8
As of 03/31/06

Analyte	Units	MET05
Aluminum	ug/L	1.0
Antimony	ug/L	0.078
Arsenic	ug/L	0.65
Barium	ug/L	0.23
Beryllium	ug/L	0.055
Cadmium	ug/L	0.14
Calcium	ug/L	15
Chromium	ug/L	0.085
Cobalt	ug/L	0.034
Copper	ug/L	0.31
Iron	ug/L	4.2
Lead	ug/L	0.24
Magnesium	ug/L	2.1
Manganese	ug/L	0.082
Molybdenum	ug/L	0.062
Nickel	ug/L	0.16
Potassium	ug/L	8.9
Selenium	ug/L	0.35
Silver	ug/L	0.041
Sodium	ug/L	15
Thallium	ug/L	0.073
Vanadium	ug/L	0.15
Zinc	ug/L	0.52

GENERAL CHEMISTRY

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	03/07/06
Units:	mg/L	Received:	03/08/06
Diln Fac:	1.000	Analyzed:	03/16/06
Batch#:	111393		

Field ID: 1047MW101 Lab ID: 185381-001
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	30	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	30	1.0

Field ID: DUP0307062A Lab ID: 185381-002
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	29	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	29	1.0

Field ID: 1065PZ1B Lab ID: 185381-003
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	390	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	390	1.0

Field ID: 1065PZ2B Lab ID: 185381-004
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	200	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	200	1.0

Field ID: 1065PZ5AR Lab ID: 185381-005
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	780	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	780	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	03/07/06
Units:	mg/L	Received:	03/08/06
Diln Fac:	1.000	Analyzed:	03/16/06
Batch#:	111393		

Field ID: DUP0307062B Lab ID: 185381-006
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	780	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	780	1.0

Field ID: 1065MW11B Lab ID: 185381-007
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	190	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	190	1.0

Field ID: LF4GW103 Lab ID: 185381-008
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	1,300	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	1,300	1.0

Field ID: DUP0307063A Lab ID: 185381-009
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	1,300	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	1,300	1.0

Field ID: LF4GW104 Lab ID: 185381-010
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	670	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	670	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	03/07/06
Units:	mg/L	Received:	03/08/06
Diln Fac:	1.000	Analyzed:	03/16/06
Batch#:	111393		

Field ID: LF5GW104 Lab ID: 185381-011
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	420	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	420	1.0

Field ID: DUP0307063B Lab ID: 185381-012
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	370	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	370	1.0

Field ID: 1349MW102 Lab ID: 185381-013
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	470	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	470	1.0

Field ID: DUP0307063C Lab ID: 185381-014
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	500	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	500	1.0

Field ID: 610GW101 Lab ID: 185381-015
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	400	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	400	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	03/07/06
Units:	mg/L	Received:	03/08/06
Diln Fac:	1.000	Analyzed:	03/16/06
Batch#:	111393		

Field ID: 610GW102 Lab ID: 185381-016
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	420	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	420	1.0

Field ID: 610GW103 Lab ID: 185381-017
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	430	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	430	1.0

Field ID: DUP0307061A Lab ID: 185381-018
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	420	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	420	1.0

Field ID: 600GW108 Lab ID: 185381-019
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	310	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	310	1.0

Field ID: DUP0307061B Lab ID: 185381-020
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	300	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	300	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	03/07/06
Units:	mg/L	Received:	03/08/06
Diln Fac:	1.000	Analyzed:	03/16/06
Batch#:	111393		

Type: BLANK Lab ID: QC331861

Analyte	Result	RL
Alkalinity, Bicarbonate	ND	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Units:	mg/L
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331862	Batch#:	111393
Matrix:	Water	Analyzed:	03/16/06

Spiked	Result	%REC	Limits
200.0	189.7	95	90-110

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Diln Fac:	1.000
Field ID:	DUP0307061B	Batch#:	111393
MSS Lab ID:	185381-020	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	mg/L	Analyzed:	03/16/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC331863	297.6	200.0	520.8	112	69-112		
MSD	QC331864		200.0	508.9	106	69-112	2	25

RPD= Relative Percent Difference

Analysis: **Alkalinity** Analysis Date: ~~04/16/06~~ 03/16/06 3/31/06 H_2SO_4 Normality = **0.0186**

Method: EPA 310.1 / SM/WW 2320B Batch No: 111393 conc.(mg/L) Na_2CO_3 for QC = **200**

SOP #: Alkalinity_rv 5.doc Analyst: RS

SAMPLE	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	Alkalinity as $CaCO_3$ (mg/L)	Low Alkalinity Volume (4.5-4.2) (mL)	Low Alkalinity as $CaCO_3$ (mg/L)	Reporting Limit (mg/L)
185381-001	6.80	100	0.00	3.20	29.76		n/a	1.0
185381-002	6.80	100	0.00	3.10	28.83		n/a	1.0
185381-003	7.65	25	0.00	10.50	390.60		n/a	1.0
185381-004	6.98	25	0.00	5.30	197.16		n/a	1.0
185381-005	6.94	25	0.00	20.90	777.48		n/a	1.0
185381-006	6.96	25	0.00	21.00	781.20		n/a	1.0
185381-007	6.91	25	0.00	5.20	193.44		n/a	1.0
185381-008	7.40	25	0.00	33.90	1261.08		n/a	1.0
185381-009	7.34	25	0.00	34.20	1272.24		n/a	1.0
185381-010	7.45	25	0.00	17.90	665.88		n/a	1.0
185381-011	7.61	25	0.00	11.30	420.36		n/a	1.0
185381-012	7.64	25	0.00	10.00	372.00		n/a	1.0
185381-013	6.80	25	0.00	12.50	465.00		n/a	1.0
185381-014	6.73	25	0.00	13.50	502.20		n/a	1.0
185381-015	7.47	25	0.00	10.80	401.76		n/a	1.0
185381-016	7.60	25	0.00	11.30	420.36		n/a	1.0
185381-017	7.45	25	0.00	11.50	427.80		n/a	1.0
185381-018	7.39	25	0.00	11.20	416.64		n/a	1.0
185381-019	7.24	25	0.00	8.20	305.04		n/a	1.0
185381-020	7.29	25	0.00	8.00	297.60		n/a	1.0

QC DATA	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinity** as $CaCO_3$ (mg/L)	Low Alk Vol (mL)	**Low Alk** as $CaCO_3$ (mg/L)	RL (mg/L)	% Rec.	% RPD
MB	4.98	25	0.00	0.00	ND			1.0		
LCS	9.47	25	1.80	5.10	189.72			1.0	95	
185381-020	7.29	25	0.00	8.00	297.60			1.0		
MS	8.73	25	0.50	14.00	520.80			1.0	112	
MSD	8.81	25	0.70	13.68	508.90			1.0	106	2

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	25	80 - 120

Reviewed by/ Date: Jm 3-20-06

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Curtis Tompkins, Ltd.

Template: F:\inorgan\wetstuff\alkalinity.xls
Ver.8.3, Effective 6/03/04

Analysis: **Alkalinity** Analysis Date: ~~01/16/06~~ 03/16/06 SES 3/31/06 H_2SO_4 Normality = 0.0186

Method: EPA 310.1 Batch No: 111393 Analyst: RS

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Carbonate [illegible]	Hydroxide [illegible]
			as $CaCO_3$ (mg/L)	as $CaCO_3$ (mg/L)		
185381-001	0.0	29.8	29.76	29.760	0.000	0.000
185381-002	0.0	28.8	28.83	28.830	0.000	0.000
185381-003	0.0	390.6	390.6	390.600	0.000	0.000
185381-004	0.0	197.2	197.16	197.160	0.000	0.000
185381-005	0.0	777.5	777.48	777.480	0.000	0.000
185381-006	0.0	781.2	781.2	781.200	0.000	0.000
185381-007	0.0	193.4	193.44	193.440	0.000	0.000
185381-008	0.0	1261.1	1261.08	1261.080	0.000	0.000
185381-009	0.0	1272.2	1272.24	1272.240	0.000	0.000
185381-010	0.0	665.9	665.88	665.880	0.000	0.000
185381-011	0.0	420.4	420.36	420.360	0.000	0.000
185381-012	0.0	372.0	372	372.000	0.000	0.000
185381-013	0.0	465.0	465	465.000	0.000	0.000
185381-014	0.0	502.2	502.2	502.200	0.000	0.000
185381-015	0.0	401.8	401.76	401.760	0.000	0.000
185381-016	0.0	420.4	420.36	420.360	0.000	0.000
185381-017	0.0	427.8	427.8	427.800	0.000	0.000
185381-018	0.0	416.6	416.64	416.640	0.000	0.000
185381-019	0.0	305.0	305.04	305.040	0.000	0.000
185381-020	0.0	297.6	297.6	297.600	0.000	0.000

P: Phenolphthalein Alkalinity (using volume to pH 8.3)
T-P: Total Alkalinity minus Phenolphthalein Alkalinity

Carbonate Alkalinity = 2x the smaller of P or (T-P)
Bicarbonate Alkalinity = (T-2P) when P < (T-P)
Hydroxide Alkalinity = (2P-T) when (T-P) < P

Analysis: Alkalinity

Analysis Date: ~~01/16/06~~ 03/16/06 SES 3/21/06

H_2SO_4 Normality = 0.0186

Method: EPA 310.1

Batch No: 111[illegible]

Analyst: [illegible]

SAMPLE	Total Alkalinity as $CaCO_3$ (mg/L)	Alkalinity as HCO_3^- (mg/L)	Alkalinity as CO_3^{2-} (mg/L)	Alkalinity as OH^- (mg/L)
185381-001	29.76	36.28	0.000	0.00
185381-002	28.83	35.15	0.000	0.00
185381-003	390.6	476.24	0.000	0.00
185381-004	197.16	240.39	0.000	0.00
185381-005	777.48	947.94	0.000	0.00
185381-006	781.2	952.48	0.000	0.00
185381-007	193.44	235.85	0.000	0.00
185381-008	1261.08	1537.57	0.000	0.00
185381-009	1272.24	1551.17	0.000	0.00
185381-010	665.88	811.87	0.000	0.00
185381-011	420.36	512.52	0.000	0.00
185381-012	372	453.56	0.000	0.00
185381-013	465	566.95	0.000	0.00
185381-014	502.2	612.31	0.000	0.00
185381-015	401.76	489.84	0.000	0.00
185381-016	420.36	512.52	0.000	0.00
185381-017	427.8	521.59	0.000	0.00
185381-018	416.64	507.99	0.000	0.00
185381-019	305.04	371.92	0.000	0.00
185381-020	297.6	362.85	0.000	0.00

Ltd.

Alkalinity Benchbook EPA 310.1 / SMWW 2320B Curtis & Tompkins, Ltd.

LIMS Batch #: 111393 Date: 3-16-06 Benchbook#: **BK 2255**
Matrix: H2O Time: 11:25 Page: **15**

CAL-ph 4.0: SS#: 055514
CAL-ph 7.0: SS#: S177
CAL-ph 10.0: SS#: S1169
Slope: 99.6
(slope limits: 92 - 102)

$CaCO_3$ Vol (mgL) Spiked: 5
$CaCO_3$ Conc (mg/L): 1,000
$CaCO_3$ WS#: S1576
H_2SO_4 Normality: 0.0186
H_2SO_4 Reagent ID: 7-27-06

Sample # / Letter	Sample Vol. Titrated (mL)	Initial pH (S.U.)	H_2SO_4 Vol (mL) to pH 8.3	H_2SO_4 Vol (mL) to pH 4.5 *	Low Alk TotalVol (mL)	Comments
MB	25	4.98	—	20.05		
LCS		9.47	PS 3/16/06 < 1.80	5.10		
185381-001L		6.69	—	< 2mL		
-001	100	6.80	—	3.20		
-002	25	6.75	—	< 2mL		
-002	100	6.80	—	3.10		
-003 I	25	7.65	—	10.50		
-004 F		6.98	—	5.30		
-005 I		6.94	—	20.90		
-006		6.96	—	21.00		
-007 F		6.91	—	5.20		
-008 B		7.40	—	33.90		
-009		7.34	—	34.20		
-010		7.45	—	17.90		
-011 H		7.61	—	11.30		
-012 H		7.64	—	10.00		
-013		6.80	—	12.50		
-014		6.73	—	13.50		
-015 I		7.47	—	10.80		
-016		7.60	—	11.30		
-017		7.45	—	11.50		
018		7.39	—	11.20		
-019 L		7.24	—	8.20		
-020		7.29	—	8.00		
MS -020		8.73	0.5	14.00		
MSD -020		8.81	0.70	13.68		

* If Acid Vol to 4.5 is < 2.0mL, redo using 100mL sample volume. If still < 2.0mL, go on to Low Alkalinity.

RSCuffa 3/16/06
Analyst / Date

lgw 3-20-06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111393
Date Started: 16-MAR-2006
Batched by : Radia Shiffa

Analysis : ALKALINITY
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185381-[illegible]			Treadwell & Rollo	Water	ALKALINITY	20-MAR-2006
185381-[illegible]			Treadwell & Rollo	Water	ALKALINITY	20-MAR-2006
185381-[illegible]			Treadwell & Rollo	Water	ALKALINITY	20-MAR-2006
185381-[illegible]			Treadwell & Rollo	Water	ALKALINITY	20-MAR-2006
185381-[illegible]			Treadwell & Rollo	Water	ALKALINITY	20-MAR-2006
185381-[illegible]			Treadwell & Rollo	Water	ALKALINITY	20-MAR-2006
185381-[illegible]			Treadwell & Rollo	Water	ALKALINITY	20-MAR-2006
185381-[illegible]			Treadwell & Rollo	Water	ALKALINITY	20-MAR-2006
185381-[illegible]			Treadwell & Rollo	Water	ALKALINITY	20-MAR-2006
185381-[illegible]			Treadwell & Rollo	Water	ALKALINITY	20-MAR-2006
185381-[illegible]			Treadwell & Rollo	Water	ALKALINITY	20-MAR-2006
185381-[illegible]			Treadwell & Rollo	Water	ALKALINITY	20-MAR-2006
185381-[illegible]			Treadwell & Rollo	Water	ALKALINITY	20-MAR-2006
185381-[illegible]			Treadwell & Rollo	Water	ALKALINITY	20-MAR-2006
185381-[illegible]			Treadwell & Rollo	Water	ALKALINITY	20-MAR-2006
185381-[illegible]			Treadwell & Rollo	Water	ALKALINITY	20-MAR-2006
185381-[illegible]			Treadwell & Rollo	Water	ALKALINITY	20-MAR-2006
185381-[illegible]			Treadwell & Rollo	Water	ALKALINITY	20-MAR-2006
185381-[illegible]			Treadwell & Rollo	Water	ALKALINITY	20-MAR-2006
185381-[illegible]			Treadwell & Rollo	Water	ALKALINITY	20-MAR-2006
QC33186[illegible]	BLANK			Water	ALKALINITY	
QC33186[illegible]	LCS			Water	ALKALINITY	
QC33186[illegible]	MS	of 185381-020		Water	ALKALINITY	
QC33186[illegible]	MSD	of 185381-020		Water	ALKALINITY	

Curtis & Tompkins, Ltd.

Chloride

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Units:	mg/L
Matrix:	Water	Received:	03/08/06

Field ID	Type	Lab ID	Result	RL	Diln Fac	Batch#	Sampled	Analyzed
1047MW101	SAMPLE	185381-001	2.9	0.20	1.000	111117	03/07/06 11:15	03/08/06 15:49
DUP0307062A	SAMPLE	185381-002	2.9	0.20	1.000	111117	03/07/06 11:00	03/08/06 16:05
1065PZ1B	SAMPLE	185381-003	180	5.0	25.00	111117	03/07/06 12:45	03/09/06 01:24
1065PZ2B	SAMPLE	185381-004	36	1.0	5.000	111117	03/07/06 13:35	03/09/06 01:41
1065PZ5AR	SAMPLE	185381-005	68	1.0	5.000	111117	03/07/06 14:00	03/09/06 01:57
DUP0307062B	SAMPLE	185381-006	68	1.0	5.000	111117	03/07/06 13:45	03/09/06 02:30
1065MW11B	SAMPLE	185381-007	77	2.0	10.00	111117	03/07/06 16:00	03/09/06 03:03
LF4GW103	SAMPLE	185381-008	510	20	100.0	111117	03/07/06 10:40	03/08/06 16:22
DUP0307063A	SAMPLE	185381-009	500	20	100.0	111117	03/07/06 10:45	03/09/06 03:19
LF4GW104	SAMPLE	185381-010	360	10	50.00	111117	03/07/06 12:20	03/09/06 04:41
LF5GW104	SAMPLE	185381-011	290	5.0	25.00	111118	03/07/06 13:45	03/08/06 16:29
DUP0307063B	SAMPLE	185381-012	290	5.0	25.00	111118	03/07/06 13:50	03/08/06 16:47
1349MW102	SAMPLE	185381-013	240	5.0	25.00	111118	03/07/06 15:45	03/08/06 17:04
DUP0307063C	SAMPLE	185381-014	240	5.0	25.00	111118	03/07/06 15:50	03/08/06 18:49
610GW101	SAMPLE	185381-015	32	2.0	10.00	111118	03/07/06 10:23	03/08/06 19:07
610GW102	SAMPLE	185381-016	38	2.0	10.00	111118	03/07/06 14:10	03/08/06 19:24
610GW103	SAMPLE	185381-017	51	5.0	25.00	111118	03/07/06 14:45	03/08/06 19:42
DUP0307061A	SAMPLE	185381-018	50	5.0	25.00	111118	03/07/06 15:00	03/08/06 17:57
600GW108	SAMPLE	185381-019	82	2.0	10.00	111118	03/07/06 16:15	03/08/06 20:00
DUP0307061B	SAMPLE	185381-020	74	2.0	10.00	111118	03/07/06 16:30	03/08/06 20:17
	BLANK	QC330681	ND	0.20	1.000	111117		03/08/06 12:36
	BLANK	QC330686	ND	0.20	1.000	111118		03/08/06 13:13

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Fluoride

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Diln Fac:	1.000
Matrix:	Water	Received:	03/08/06
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Batch#	Sampled	Analyzed
1047MW101	SAMPLE	185381-001	ND	0.10	111117	03/07/06 11:15	03/08/06 15:49
DUP0307062A	SAMPLE	185381-002	ND	0.10	111117	03/07/06 11:00	03/08/06 16:05
1065PZ1B	SAMPLE	185381-003	ND	0.10	111117	03/07/06 12:45	03/08/06 19:23
1065PZ2B	SAMPLE	185381-004	ND	0.10	111117	03/07/06 13:35	03/08/06 19:56
1065PZ5AR	SAMPLE	185381-005	0.20	0.10	111117	03/07/06 14:00	03/08/06 17:12
DUP0307062B	SAMPLE	185381-006	0.20	0.10	111117	03/07/06 13:45	03/08/06 20:29
1065MW11B	SAMPLE	185381-007	ND	0.10	111117	03/07/06 16:00	03/08/06 21:02
LF4GW103	SAMPLE	185381-008	ND	0.10	111117	03/07/06 10:40	03/08/06 21:34
DUP0307063A	SAMPLE	185381-009	ND	0.10	111117	03/07/06 10:45	03/09/06 00:19
LF4GW104	SAMPLE	185381-010	ND	0.10	111117	03/07/06 12:20	03/08/06 17:45
LF5GW104	SAMPLE	185381-011	ND	0.10	111118	03/07/06 13:45	03/08/06 22:20
DUP0307063B	SAMPLE	185381-012	ND	0.10	111118	03/07/06 13:50	03/08/06 22:55
1349MW102	SAMPLE	185381-013	0.25	0.10	111118	03/07/06 15:45	03/08/06 23:30
DUP0307063C	SAMPLE	185381-014	0.24	0.10	111118	03/07/06 15:50	03/09/06 00:05
610GW101	SAMPLE	185381-015	0.19	0.10	111118	03/07/06 10:23	03/08/06 20:35
610GW102	SAMPLE	185381-016	0.25	0.10	111118	03/07/06 14:10	03/09/06 00:40
610GW103	SAMPLE	185381-017	0.23	0.10	111118	03/07/06 14:45	03/09/06 01:15
DUP0307061A	SAMPLE	185381-018	0.23	0.10	111118	03/07/06 15:00	03/09/06 01:50
600GW108	SAMPLE	185381-019	0.55	0.10	111118	03/07/06 16:15	03/08/06 15:54
DUP0307061B	SAMPLE	185381-020	0.54	0.10	111118	03/07/06 16:30	03/08/06 16:12
	BLANK	QC330681	ND	0.10	111117		03/08/06 12:36
	BLANK	QC330686	ND	0.10	111118		03/08/06 13:13

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrate Nitrogen

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Units:	mg/L
Matrix:	Water	Received:	03/08/06

Field ID	Type	Lab ID	Result	RL	Diln Fac	Batch#	Sampled	Analyzed
1047MW101	SAMPLE	185381-001	0.12	0.05	1.000	111117	03/07/06 11:15	03/08/06 15:49
DUP0307062A	SAMPLE	185381-002	0.12	0.05	1.000	111117	03/07/06 11:00	03/08/06 16:05
1065PZ1B	SAMPLE	185381-003	ND	0.05	1.000	111117	03/07/06 12:45	03/08/06 19:23
1065PZ2B	SAMPLE	185381-004	2.8	0.05	1.000	111117	03/07/06 13:35	03/08/06 19:56
1065PZ5AR	SAMPLE	185381-005	ND	0.05	1.000	111117	03/07/06 14:00	03/08/06 17:12
DUP0307062B	SAMPLE	185381-006	ND	0.05	1.000	111117	03/07/06 13:45	03/08/06 20:29
1065MW11B	SAMPLE	185381-007	3.8	0.05	1.000	111117	03/07/06 16:00	03/08/06 21:02
LF4GW103	SAMPLE	185381-008	ND	0.05	1.000	111117	03/07/06 10:40	03/08/06 21:34
DUP0307063A	SAMPLE	185381-009	ND	0.05	1.000	111117	03/07/06 10:45	03/09/06 00:19
LF4GW104	SAMPLE	185381-010	0.53	0.05	1.000	111117	03/07/06 12:20	03/08/06 17:45
LF5GW104	SAMPLE	185381-011	5.9	1.3	25.00	111118	03/07/06 13:45	03/08/06 16:29
DUP0307063B	SAMPLE	185381-012	6.0	1.3	25.00	111118	03/07/06 13:50	03/08/06 16:47
1349MW102	SAMPLE	185381-013	2.0	0.05	1.000	111118	03/07/06 15:45	03/08/06 23:30
DUP0307063C	SAMPLE	185381-014	2.0	0.05	1.000	111118	03/07/06 15:50	03/09/06 00:05
610GW101	SAMPLE	185381-015	ND	0.05	1.000	111118	03/07/06 10:23	03/08/06 20:35
610GW102	SAMPLE	185381-016	ND	0.05	1.000	111118	03/07/06 14:10	03/09/06 00:40
610GW103	SAMPLE	185381-017	ND	0.05	1.000	111118	03/07/06 14:45	03/09/06 01:15
DUP0307061A	SAMPLE	185381-018	ND	0.05	1.000	111118	03/07/06 15:00	03/09/06 01:50
600GW108	SAMPLE	185381-019	0.97	0.05	1.000	111118	03/07/06 16:15	03/08/06 15:54
DUP0307061B	SAMPLE	185381-020	1.2	0.05	1.000	111118	03/07/06 16:30	03/08/06 16:12
	BLANK	QC330681	ND	0.05	1.000	111117		03/08/06 12:36
	BLANK	QC330686	ND	0.05	1.000	111118		03/08/06 13:13

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrite Nitrogen

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Units:	mg/L
Matrix:	Water	Received:	03/08/06

Field ID	Type	Lab ID	Result	RL	Diln Fac	Batch#	Sampled	Analyzed
1047MW101	SAMPLE	185381-001	ND	0.05	1.000	111117	03/07/06 11:15	03/08/06 15:49
DUP0307062A	SAMPLE	185381-002	ND	0.05	1.000	111117	03/07/06 11:00	03/08/06 16:05
1065PZ1B	SAMPLE	185381-003	ND	0.05	1.000	111117	03/07/06 12:45	03/08/06 19:23
1065PZ2B	SAMPLE	185381-004	ND	0.05	1.000	111117	03/07/06 13:35	03/08/06 19:56
1065PZ5AR	SAMPLE	185381-005	ND	0.05	1.000	111117	03/07/06 14:00	03/08/06 17:12
DUP0307062B	SAMPLE	185381-006	ND	0.05	1.000	111117	03/07/06 13:45	03/08/06 20:29
1065MW11B	SAMPLE	185381-007	ND	0.05	1.000	111117	03/07/06 16:00	03/08/06 21:02
LF4GW103	SAMPLE	185381-008	ND	0.10	2.000	111117	03/07/06 10:40	03/08/06 22:07
DUP0307063A	SAMPLE	185381-009	ND	0.10	2.000	111117	03/07/06 10:45	03/09/06 00:51
LF4GW104	SAMPLE	185381-010	ND	0.05	1.000	111117	03/07/06 12:20	03/08/06 17:45
LF5GW104	SAMPLE	185381-011	ND	0.05	1.000	111118	03/07/06 13:45	03/08/06 22:20
DUP0307063B	SAMPLE	185381-012	ND	0.05	1.000	111118	03/07/06 13:50	03/08/06 22:55
1349MW102	SAMPLE	185381-013	ND	0.05	1.000	111118	03/07/06 15:45	03/08/06 23:30
DUP0307063C	SAMPLE	185381-014	ND	0.05	1.000	111118	03/07/06 15:50	03/09/06 00:05
610GW101	SAMPLE	185381-015	ND	0.05	1.000	111118	03/07/06 10:23	03/08/06 20:35
610GW102	SAMPLE	185381-016	ND	0.05	1.000	111118	03/07/06 14:10	03/09/06 00:40
610GW103	SAMPLE	185381-017	ND	0.05	1.000	111118	03/07/06 14:45	03/09/06 01:15
DUP0307061A	SAMPLE	185381-018	ND	0.05	1.000	111118	03/07/06 15:00	03/09/06 01:50
600GW108	SAMPLE	185381-019	ND	0.05	1.000	111118	03/07/06 16:15	03/08/06 15:54
DUP0307061B	SAMPLE	185381-020	ND	0.05	1.000	111118	03/07/06 16:30	03/08/06 16:12
	BLANK	QC330681	ND	0.05	1.000	111117		03/08/06 12:36
	BLANK	QC330686	ND	0.05	1.000	111118		03/08/06 13:13

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Sulfate

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Units:	mg/L
Matrix:	Water	Received:	03/08/06

Field ID	Type	Lab ID	Result	RL	Diln Fac	Batch#	Sampled	Analyzed
1047MW101	SAMPLE	185381-001	2.1	0.50	1.000	111117	03/07/06 11:15	03/08/06 15:49
DUP0307062A	SAMPLE	185381-002	2.0	0.50	1.000	111117	03/07/06 11:00	03/08/06 16:05
1065PZ1B	SAMPLE	185381-003	55	13	25.00	111117	03/07/06 12:45	03/09/06 01:24
1065PZ2B	SAMPLE	185381-004	55	2.5	5.000	111117	03/07/06 13:35	03/09/06 01:41
1065PZ5AR	SAMPLE	185381-005	ND	0.50	1.000	111117	03/07/06 14:00	03/08/06 17:12
DUP0307062B	SAMPLE	185381-006	ND	0.50	1.000	111117	03/07/06 13:45	03/08/06 20:29
1065MW11B	SAMPLE	185381-007	78	5.0	10.00	111117	03/07/06 16:00	03/09/06 03:03
LF4GW103	SAMPLE	185381-008	410	50	100.0	111117	03/07/06 10:40	03/08/06 16:22
DUP0307063A	SAMPLE	185381-009	410	50	100.0	111117	03/07/06 10:45	03/09/06 03:19
LF4GW104	SAMPLE	185381-010	170	25	50.00	111117	03/07/06 12:20	03/09/06 04:41
LF5GW104	SAMPLE	185381-011	73	13	25.00	111118	03/07/06 13:45	03/08/06 16:29
DUP0307063B	SAMPLE	185381-012	73	13	25.00	111118	03/07/06 13:50	03/08/06 16:47
1349MW102	SAMPLE	185381-013	140	13	25.00	111118	03/07/06 15:45	03/08/06 17:04
DUP0307063C	SAMPLE	185381-014	130	13	25.00	111118	03/07/06 15:50	03/08/06 18:49
610GW101	SAMPLE	185381-015	7.5	0.50	1.000	111118	03/07/06 10:23	03/08/06 20:35
610GW102	SAMPLE	185381-016	68	5.0	10.00	111118	03/07/06 14:10	03/08/06 19:24
610GW103	SAMPLE	185381-017	74	13	25.00	111118	03/07/06 14:45	03/08/06 19:42
DUP0307061A	SAMPLE	185381-018	74	13	25.00	111118	03/07/06 15:00	03/08/06 17:57
600GW108	SAMPLE	185381-019	28	0.50	1.000	111118	03/07/06 16:15	03/08/06 15:54
DUP0307061B	SAMPLE	185381-020	33	0.50	1.000	111118	03/07/06 16:30	03/08/06 16:12
	BLANK	QC330681	ND	0.50	1.000	111117		03/08/06 12:36
	BLANK	QC330686	ND	0.50	1.000	111118		03/08/06 13:13

ND= Not Detected
RL= Reporting Limit

Batch QC Report

Chloride

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Units:	mg/L
Matrix:	Water	Received:	03/08/06

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Sampled	Analyzed
	BS		QC330682		4.000	3.968	99	80-120			1.000	111117		03/08/06 12:53
	BSD		QC330683		4.000	3.980	99	80-120	0	20	1.000	111117		03/08/06 13:09
LF4GW103	MS	185381-008	QC330684	510.8	200.0	702.1	96	80-120			100.0	111117	03/07/06 10:40	03/08/06 23:46
LF4GW103	MSD	185381-008	QC330685		200.0	705.5	97	80-120	0	25	100.0	111117	03/07/06 10:40	03/09/06 00:02
	BS		QC330687		4.000	3.914	98	80-120			1.000	111118		03/08/06 13:30
	BSD		QC330688		4.000	4.221	106	80-120	8	20	1.000	111118		03/08/06 13:48
DUP0307061A	MS	185381-018	QC330689	50.31	50.00	100.2	100	80-120			25.00	111118	03/07/06 15:00	03/08/06 18:14
DUP0307061A	MSD	185381-018	QC330690		50.00	100.3	100	80-120	0	25	25.00	111118	03/07/06 15:00	03/08/06 18:32

437

RPD= Relative Percent Difference

24.0

Curtis & Tompkins, Ltd.

Batch QC Report

Fluoride

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Units:	mg/L
Matrix:	Water	Received:	03/08/06

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Sampled	Analyzed
	BS		QC330682		2.000	2.038	102	80-120			1.000	111117		03/08/06 12:53
	BSD		QC330683		2.000	2.086	104	80-120	2	20	1.000	111117		03/08/06 13:09
LF4GW103	MS	185381-008	QC330684	0.08882	100.0	99.20	99	77-120			100.0	111117	03/07/06 10:40	03/08/06 23:46
LF4GW103	MSD	185381-008	QC330685		100.0	101.8	102	77-120	3	20	100.0	111117	03/07/06 10:40	03/09/06 00:02
	BS		QC330687		2.000	1.909	95	80-120			1.000	111118		03/08/06 13:30
	BSD		QC330688		2.000	2.099	105	80-120	9	20	1.000	111118		03/08/06 13:48
DUP0307061A	MS	185381-018	QC330689	0.2341	25.00	24.03	95	77-120			25.00	111118	03/07/06 15:00	03/08/06 18:14
DUP0307061A	MSD	185381-018	QC330690		25.00	24.01	95	77-120	0	20	25.00	111118	03/07/06 15:00	03/08/06 18:32

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrate Nitrogen

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Units:	mg/L
Matrix:	Water	Received:	03/08/06

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Sampled	Analyzed
	BS		QC330682		1.000	0.9827	98	80-120			1.000	111117		03/08/06 12:53
	BSD		QC330683		1.000	0.9989	100	80-120	2	20	1.000	111117		03/08/06 13:09
LF4GW103	MS	185381-008	QC330684	0.02596	50.00	47.50	95	80-120			100.0	111117	03/07/06 10:40	03/08/06 23:46
LF4GW103	MSD	185381-008	QC330685		50.00	48.78	98	80-120	3	25	100.0	111117	03/07/06 10:40	03/09/06 00:02
	BS		QC330687		1.000	1.007	101	80-120			1.000	111118		03/08/06 13:30
	BSD		QC330688		1.000	1.088	109	80-120	8	20	1.000	111118		03/08/06 13:48
DUP0307061A	MS	185381-018	QC330689	<0.01819	12.50	12.45	100	80-120			25.00	111118	03/07/06 15:00	03/08/06 18:14
DUP0307061A	MSD	185381-018	QC330690		12.50	12.22	98	80-120	2	25	25.00	111118	03/07/06 15:00	03/08/06 18:32

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrite Nitrogen

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Units:	mg/L
Matrix:	Water	Received:	03/08/06

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Sampled	Analyzed
	BS		QC330682		1.000	0.9812	98	80-120			1.000	111117		03/08/06 12:53
	BSD		QC330683		1.000	0.9745	97	80-120	1	20	1.000	111117		03/08/06 13:09
LF4GW103	MS	185381-008	QC330684	<0.02411	50.00	47.39	95	80-120			100.0	111117	03/07/06 10:40	03/08/06 23:46
LF4GW103	MSD	185381-008	QC330685		50.00	47.81	96	80-120	1	25	100.0	111117	03/07/06 10:40	03/09/06 00:02
	BS		QC330687		1.000	0.9783	98	80-120			1.000	111118		03/08/06 13:30
	BSD		QC330688		1.000	1.024	102	80-120	5	20	1.000	111118		03/08/06 13:48
DUP0307061A	MS	185381-018	QC330689	<0.006664	12.50	12.20	98	80-120			25.00	111118	03/07/06 15:00	03/08/06 18:14
DUP0307061A	MSD	185381-018	QC330690		12.50	12.11	97	80-120	1	25	25.00	111118	03/07/06 15:00	03/08/06 18:32

440

RPD= Relative Percent Difference

30.0

Curtis & Tompkins, Ltd.

Batch QC Report

Sulfate

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Units:	mg/L
Matrix:	Water	Received:	03/08/06

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Sampled	Analyzed
	BS		QC330682		10.00	9.857	99	80-120			1.000	111117		03/08/06 12:53
	BSD		QC330683		10.00	9.972	100	80-120	1	20	1.000	111117		03/08/06 13:09
LF4GW103	MS	185381-008	QC330684	405.6	500.0	907.9	100	80-120			100.0	111117	03/07/06 10:40	03/08/06 23:46
LF4GW103	MSD	185381-008	QC330685		500.0	915.3	102	80-120	1	25	100.0	111117	03/07/06 10:40	03/09/06 00:02
	BS		QC330687		10.00	9.866	99	80-120			1.000	111118		03/08/06 13:30
	BSD		QC330688		10.00	10.71	107	80-120	8	20	1.000	111118		03/08/06 13:48
DUP0307061A	MS	185381-018	QC330689	73.74	125.0	198.6	100	80-120			25.00	111118	03/07/06 15:00	03/08/06 18:14
DUP0307061A	MSD	185381-018	QC330690		125.0	197.4	99	80-120	1	25	25.00	111118	03/07/06 15:00	03/08/06 18:32

441

RPD= Relative Percent Difference

32.0

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185381 IC Water: EPA 300.0

Inst : IC01 Reviewer: MCH
Calnum : 606046871001 Date : 01-FEB-2006 13:28 Inj Vol : 25 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	032_2.000	606046871002	L1	01-FEB-2006 13:28	S1888 (500X)
L2	032_3.000	606046871003	L2	01-FEB-2006 13:46	S1888 (100X)
L3	032_4.000	606046871004	L3	01-FEB-2006 14:03	S1888 (25X)
L4	032_5.000	606046871005	L4	01-FEB-2006 14:21	S1888 (10X)
L5	032_6.000	606046871006	L5	01-FEB-2006 14:38	S1888 (5X)

Analyte	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MnR^2	Flg
Fluoride	0.2528	0.2613	0.2883	0.2940	0.3105	QORG	A		0.27855	0.003187	mg/L	0.2814	1.000	0.990	
Chloride	0.1745	0.1698	0.1822	0.1890	0.2055	QORG	A		0.17357	0.001594	mg/L	0.1842	1.000	0.990	
Nitrogen, Nitrite	0.3864	0.3575	0.3722	0.3676	0.3830	QORG	A		0.35745	0.005065	mg/L	0.3733	1.000	0.990	
Nitrogen, Nitrate	0.4498	0.4302	0.4579	0.4590	0.4824	QORG	A		0.44011	0.008413	mg/L	0.4558	1.000	0.990	
Sulfate	0.1233	0.1237	0.1314	0.1331	0.1412	QORG	A		0.12610	3.005E-4	mg/L	0.1305	1.000	0.990	

442

QORG=Quadratic regression forced through origin

Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 300.0

Inst : IC01
Calnum : 606046871001 Date : 01-FEB-2006 13:28 Inj Vol: 25 uL

MAS 2/2/06

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	032_2.000	606046871002	L1	01-FEB-2006 13:28	S1888 (500X)
L2	032_3.000	606046871003	L2	01-FEB-2006 13:46	S1888 (100X)
L3	032_4.000	606046871004	L3	01-FEB-2006 14:03	S1888 (25X)
L4	032_5.000	606046871005	L4	01-FEB-2006 14:21	S1888 (10X)
L5	032_6.000	606046871006	L5	01-FEB-2006 14:38	S1888 (5X)

Analyte	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MnR^2	Flags
Fluoride	0.2528	0.2613	0.2883	0.2940	0.3105	QORG	A		0.278548	0.003187	mg/L	0.2814	1.000	0.990	
Chloride	0.1745	0.1698	0.1822	0.1890	0.2055	QORG	A		0.173571	0.001594	mg/L	0.1842	1.000	0.990	
Nitrogen, Nitrite	0.3864	0.3575	0.3722	0.3676	0.3830	QORG	A		0.357447	0.005065	mg/L	0.3733	1.000	0.990	
Bromide	0.0765	0.0774	0.0807	0.0787	0.0812	QORG	A		0.077484	1.818E-4	mg/L	0.0789	1.000	0.990	
Nitrogen, Nitrate	0.4498	0.4302	0.4579	0.4590	0.4824	QORG	A		0.440113	0.008413	mg/L	0.4558	1.000	0.990	
Orthophosphate (as P)	0.1717	0.2172	0.2560	0.2220	0.2112	QORG	A		0.242367	-0.00158	mg/L	0.2156	0.999	0.990	NT
Sulfate	0.1233	0.1237	0.1314	0.1331	0.1412	QORG	A		0.126102	3.005E-4	mg/L	0.1305	1.000	0.990	

MAS 2/1/06

443

NT = non-target

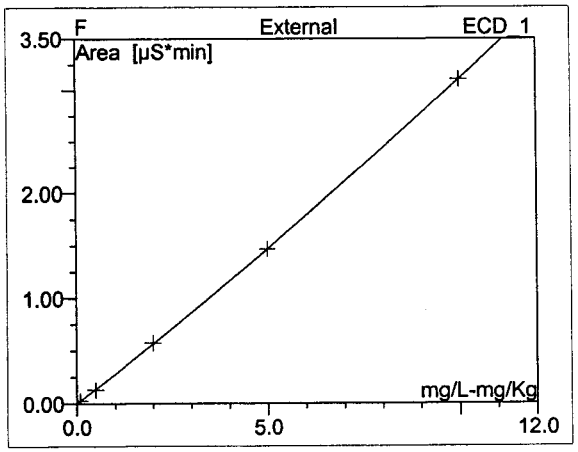
QORG=Quadratic regression forced through origin

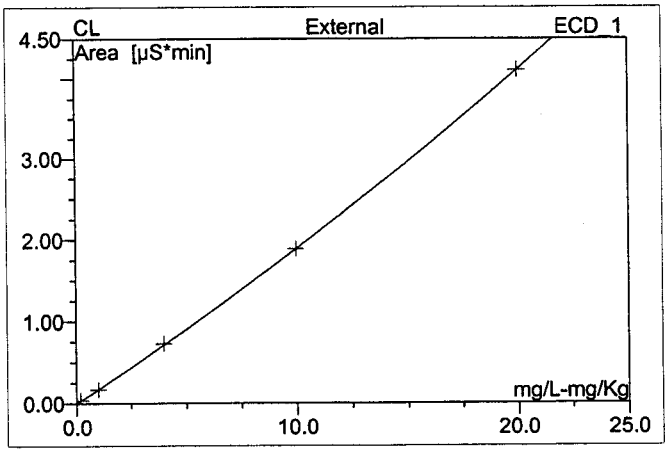
Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

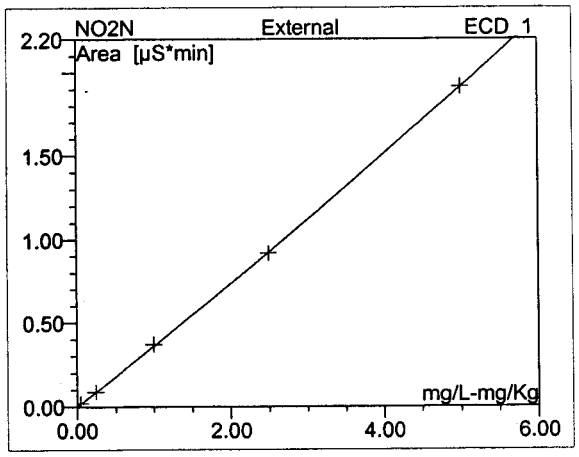
606046871001

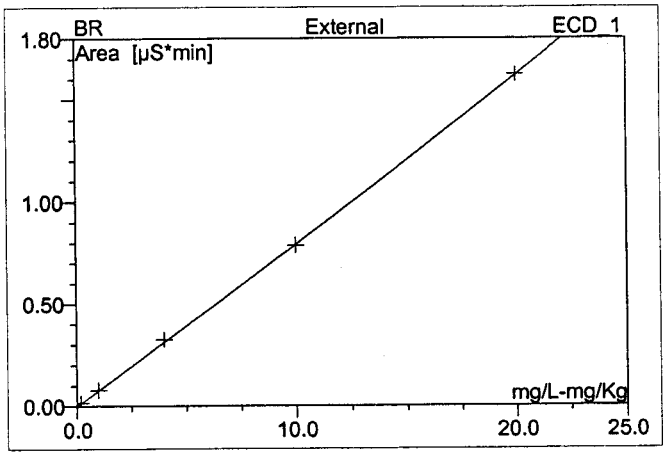
IC01 Calibration Batch Report

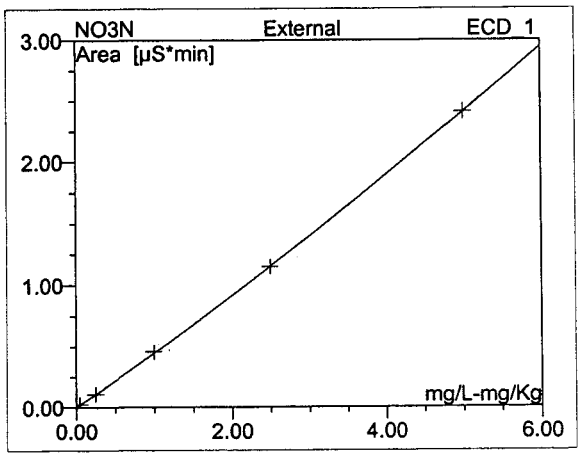
Sequence:	032	Inj. Vol.:	25.0
Program:	IC01-7AN	Operator:	PC_NEWIC
Inj. Date/Time:	02/01/06 14:03	Run Time:	15.00

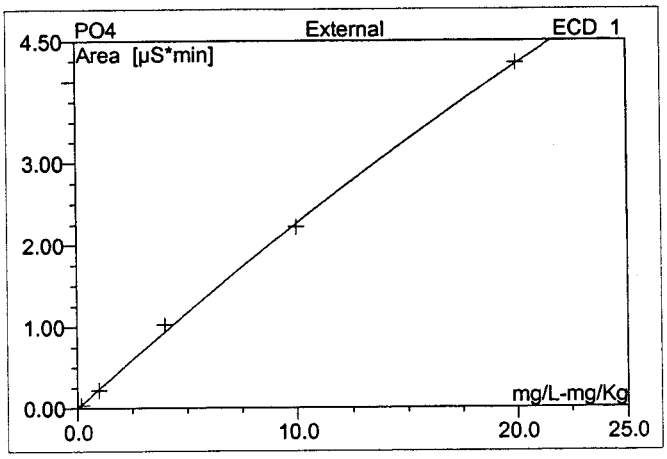




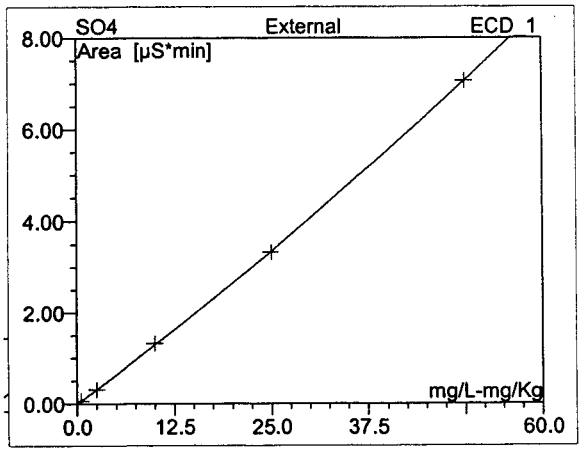








Sequence:	032	*Inj. Vol.:*	25.0
Program:	IC01-7AN	*Operator:*	n.a.
Inj. Date/Time:	02/01/06 14:03	*Run Time:*	15.00



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	3.37	F	Quad	5	0.000000	0.278548	0.003187	99.966068
2	4.89	CL	Quad	5	0.000000	0.173571	0.001594	99.916153
4	5.79	NO2N	Quad	5	0.000000	0.357447	0.005065	99.979455
5	7.33	BR	Quad	5	0.000000	0.077484	0.000182	99.987414
6	8.26	NO3N	Quad	5	0.000000	0.440112	0.008413	99.970779
7	10.28	PO4	Quad	5	0.000000	0.242367	-0.001578	99.885417
8	12.17	SO4	Quad	5	0.000000	0.126102	0.000301	99.958961
AVERAGE:					0.000000	0.242233	0.002452	99.952035

No.	Name	Area µS*min F ECD 1	Area µS*min CL ECD 1	Area µS*min NO2N ECD 1	Area µS*min BR ECD 1	Area µS*min NO3N ECD 1	Area µS*min PO4 ECD 1	Area µS*min SO4 ECD 1
2	ICAL,L1,S188	0.025275	0.034903	0.019321	0.015298	0.022490	0.034330	0.061629
3	ICAL,L2,S188	0.130653	0.169780	0.089380	0.077435	0.107540	0.217220	0.309323
4	ICAL,L3,S188	0.576603	0.728921	0.372151	0.322907	0.457889	1.024032	1.314019
5	ICAL,L4,S188	1.469972	1.890327	0.919106	0.786634	1.147425	2.219833	3.327253
6	ICAL,L5,S188	3.104502	4.110030	1.915021	1.623599	2.411883	4.224545	7.058845

No.	Name	Height µS F ECD 1	Height µS CL ECD 1	Height µS NO2N ECD 1	Height µS BR ECD 1	Height µS NO3N ECD 1	Height µS PO4 ECD 1	Height µS SO4 ECD 1
2	ICAL,L1,S188	0.214888	0.258158	0.107142	0.073826	0.090044	0.092472	0.173918
3	ICAL,L2,S188	1.091262	1.255538	0.520346	0.357736	0.437902	0.520594	0.860712
4	ICAL,L3,S188	4.846146	5.414854	2.167724	1.511584	1.866278	2.566166	3.696382
5	ICAL,L4,S188	12.797028	14.219142	5.393734	3.770806	4.728312	6.027548	9.511224
6	ICAL,L5,S188	27.169356	31.375536	11.293560	7.962244	10.100652	12.291378	20.783882

No.	Name	Amount mg/L-mg/Kg F ECD 1	Amount mg/L-mg/Kg CL ECD 1	Amount mg/L-mg/Kg NO2N ECD 1	Amount mg/L-mg/Kg BR ECD 1	Amount mg/L-mg/Kg NO3N ECD 1	Amount mg/L-mg/Kg PO4 ECD 1	Amount mg/L-mg/Kg SO4 ECD 1
2	ICAL,L1,S188	0.090645	0.200718	0.054011	0.197347	0.051052	0.141776	0.488153
3	ICAL,L2,S188	0.466559	0.969523	0.249171	0.997037	0.243215	0.901538	2.438779
4	ICAL,L3,S188	2.023200	4.048958	1.026211	4.127423	1.020484	4.348224	10.173592
5	ICAL,L4,S188	4.992160	9.976525	2.483881	9.921246	2.488719	9.781943	24.906875
6	ICAL,L5,S188	10.001057	20.003598	5.002836	20.014099	5.001893	20.046763	50.015285

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\032.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 2/1/2006 6:24:00 PM by ic_analyst

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Inhibit Integration	On	ECD_1
2	3.000	Inhibit Integration	Off	ECD_1
3	3.010	Minimum Area	0.001 "[Signal]*min"	ECD_1
4	3.011	Peak Slice	0.05 s	ECD_1

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\032.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 2/1/2006 6:24:00 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Comment
1	F	3.373 min	5.000 RG	External	Area	Quad	Auto		
2	*CL*	*4.887 min*	*5.000 RG*	*External*	*Area*	*Quad*	*Auto*		
3	NO2N	5.787 min	5.000 RG	External	Area	Quad	Auto		
4	BR	7.327 min	5.000 RG	External	Area	Quad	Auto		
5	NO3N	8.260 min	10.000 RG	External	Area	Quad	Auto		
6	PO4	10.277 min	10.000 RG	External	Area	Quad	Auto		
7	SO4	12.173 min	10.000 RG	External	Area	Quad	Auto		

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\032.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 2/1/2006 6:24:00 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Amount ICAL,L1,S1888,500	Amount ICAL,L2,S1888,100	Amount ICAL,L3,S1888,25	Amount ICAL,L4,S1888,10	Amount ICAL,L5,S1888,5
1	F	3.373 min	0.100000	0.500000	2.000000	5.000000	10.000000
2	*CL*	*4.887 min*	*0.200000*	*1.000000*	*4.000000*	*10.000000*	*20.000000*
3	NO2N	5.787 min	0.050000	0.250000	1.000000	2.500000	5.000000
4	BR	7.327 min	0.200000	1.000000	4.000000	10.000000	20.000000
5	NO3N	8.260 min	0.050000	0.250000	1.000000	2.500000	5.000000
6	PO4	10.277 min	0.200000	1.000000	4.000000	10.000000	20.000000
7	SO4	12.173 min	0.500000	2.500000	10.000000	25.000000	50.000000

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\032.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 2/1/2006 6:24:00 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Resp.Fact.	Comment	Amount ICAL,L1,S1888,500	Amount ICAL,L2,S1888,100	Amount ICAL,L3,S1888,25
1	F	3.373 min	1.000000		0.100000	0.500000	2.000000
2	*CL*	*4.887 min*	*1.000000*		*0.200000*	*1.000000*	*4.000000*
3	NO2N	5.787 min	1.000000		0.050000	0.250000	1.000000
4	BR	7.327 min	1.000000		0.200000	1.000000	4.000000
5	NO3N	8.260 min	1.000000		0.050000	0.250000	1.000000
6	PO4	10.277 min	1.000000		0.200000	1.000000	4.000000
7	SO4	12.173 min	1.000000		0.500000	2.500000	10.000000

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\032.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 2/1/2006 6:24:00 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Amount ICAL,L4,S1888,10	Amount ICAL,L5,S1888,5
1	F	3.373 min	5.000000	10.000000
2	*CL*	*4.887 min*	*10.000000*	*20.000000*
3	NO2N	5.787 min	2.500000	5.000000
4	BR	7.327 min	10.000000	20.000000
5	NO3N	8.260 min	2.500000	5.000000
6	PO4	10.277 min	10.000000	20.000000
7	SO4	12.173 min	25.000000	50.000000

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\032.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 2/1/2006 6:24:00 PM by ic_analyst

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time
1	☒	ICAL,L1,S1888,500	2	70	25.0	1.0000	1.0000	1.0000	2/1/2006 1:28:35 PM
2	☒	ICAL,L2,S1888,100	3	35	25.0	1.0000	1.0000	1.0000	2/1/2006 1:46:06 PM
3	☒	ICAL,L3,S1888,25	4	35	25.0	1.0000	1.0000	1.0000	2/1/2006 2:03:37 PM
4	☒	ICAL,L4,S1888,10	5	36	25.0	1.0000	1.0000	1.0000	2/1/2006 2:21:08 PM
5	☒	ICAL,L5,S1888,5	6	37	25.0	1.0000	1.0000	1.0000	2/1/2006 2:38:38 PM

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\032.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 2/1/2006 6:24:00 PM by ic_analyst

Calibration:

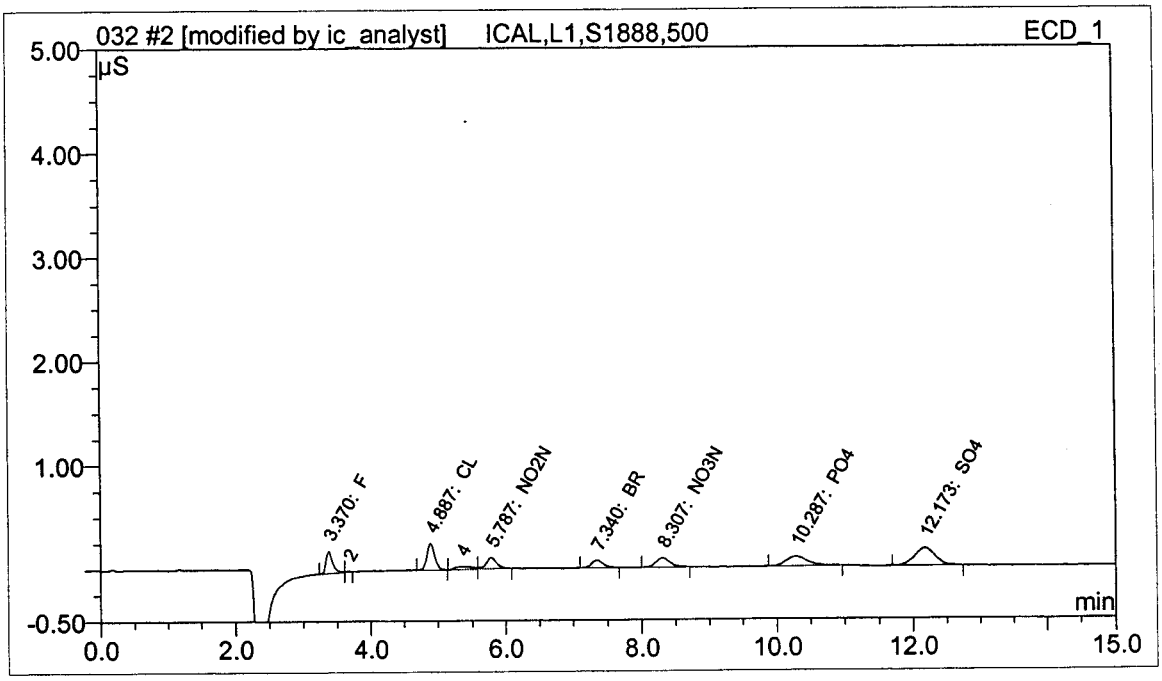
Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Calib. Comment
1	☒	ICAL,L1,S1888,500	Ok
2	☒	ICAL,L2,S1888,100	Ok
3	☒	ICAL,L3,S1888,25	Ok
4	☒	ICAL,L4,S1888,10	Ok
5	☒	ICAL,L5,S1888,5	Ok

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L1,S1888,500	**Sample No.:**	2
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:28 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	0.025275	0.0906	0.0906	
3	CL	4.887	0.034903	0.2007	0.2007	
5	NO2N	5.787	0.019321	0.0540	0.0540	
6	BR	7.340	0.015298	0.1973	0.1973	
7	NO3N	8.307	0.022490	0.0511	0.0511	
8	PO4	10.287	0.034330	0.1418	0.1418	
9	SO4	12.173	0.061629	0.4882	0.4882	



ANALYZED BY: _____

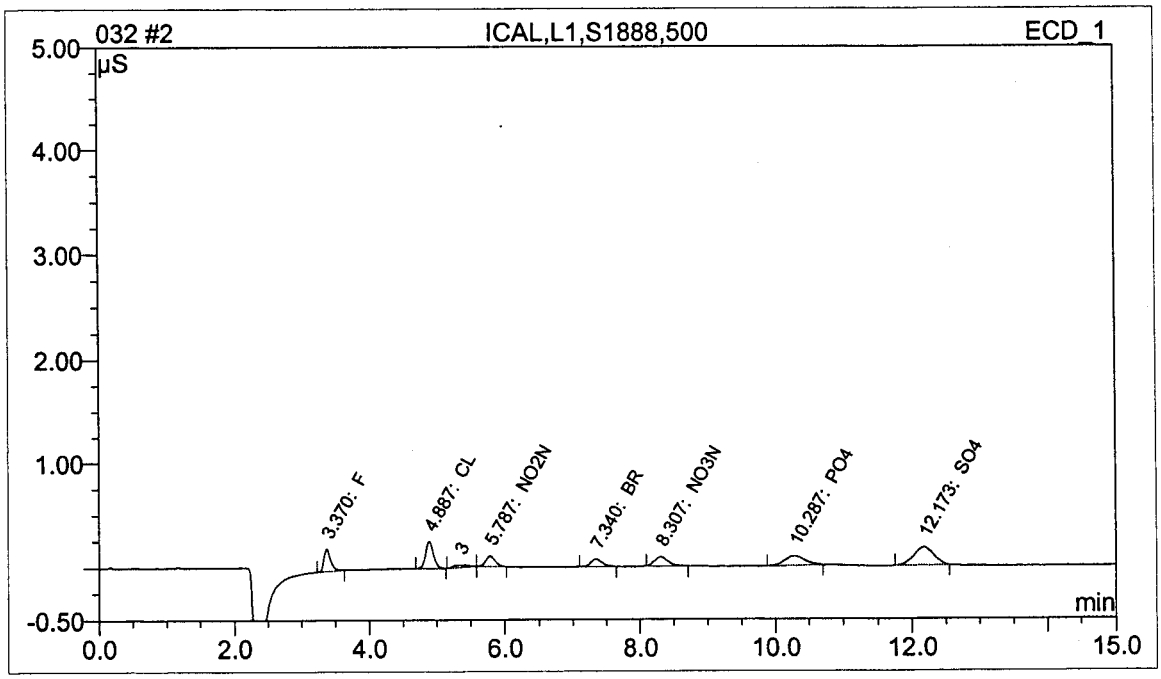
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L1,S1888,500	**Sample No.:**	2
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:28 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	0.024236	0.0869	0.0869	
2	CL	4.887	0.034903	0.2007	0.2007	
4	NO2N	5.787	0.015698	0.0439	0.0439	
5	BR	7.340	0.015043	0.1941	0.1941	
6	NO3N	8.307	0.020103	0.0456	0.0456	
7	PO4	10.287	0.031075	0.1283	0.1283	
8	SO4	12.173	0.056768	0.4497	0.4497	



ANALYZED BY: _____

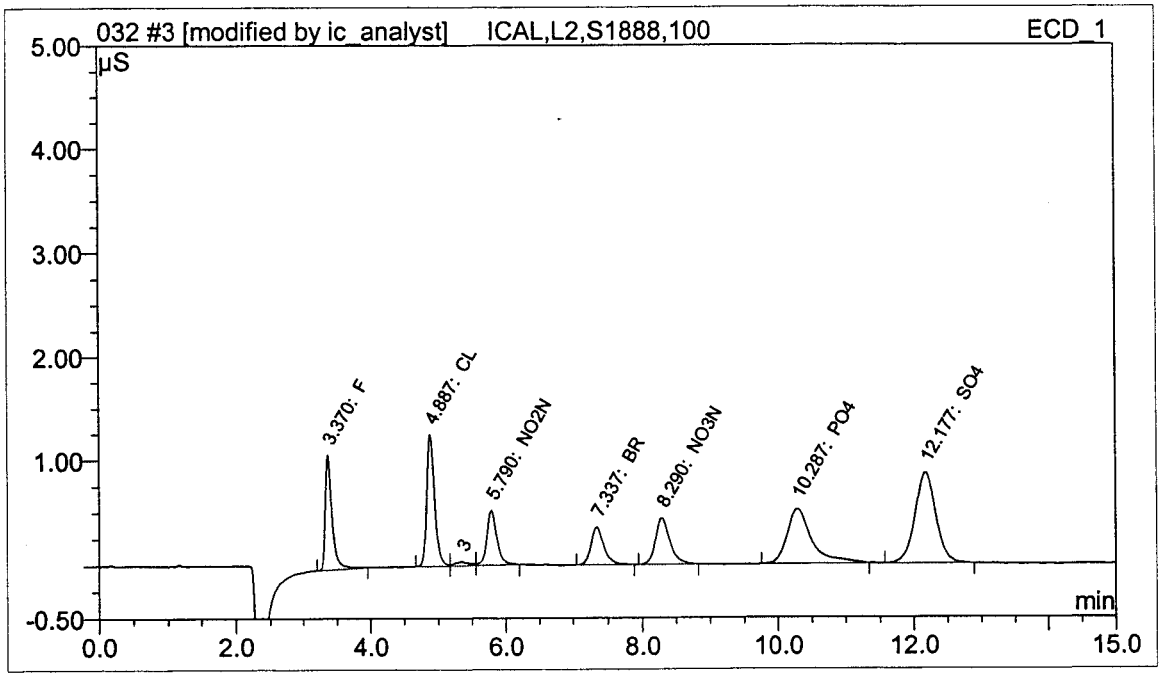
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L2,S1888,100	**Sample No.:**	3
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:46 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	0.130653	0.4666	0.4666	
2	CL	4.887	0.169780	0.9695	0.9695	
4	NO2N	5.790	0.089380	0.2492	0.2492	
5	BR	7.337	0.077435	0.9970	0.9970	
6	NO3N	8.290	0.107540	0.2432	0.2432	
7	PO4	10.287	0.217220	0.9015	0.9015	
8	SO4	12.177	0.309323	2.4388	2.4388	



ANALYZED BY: _____

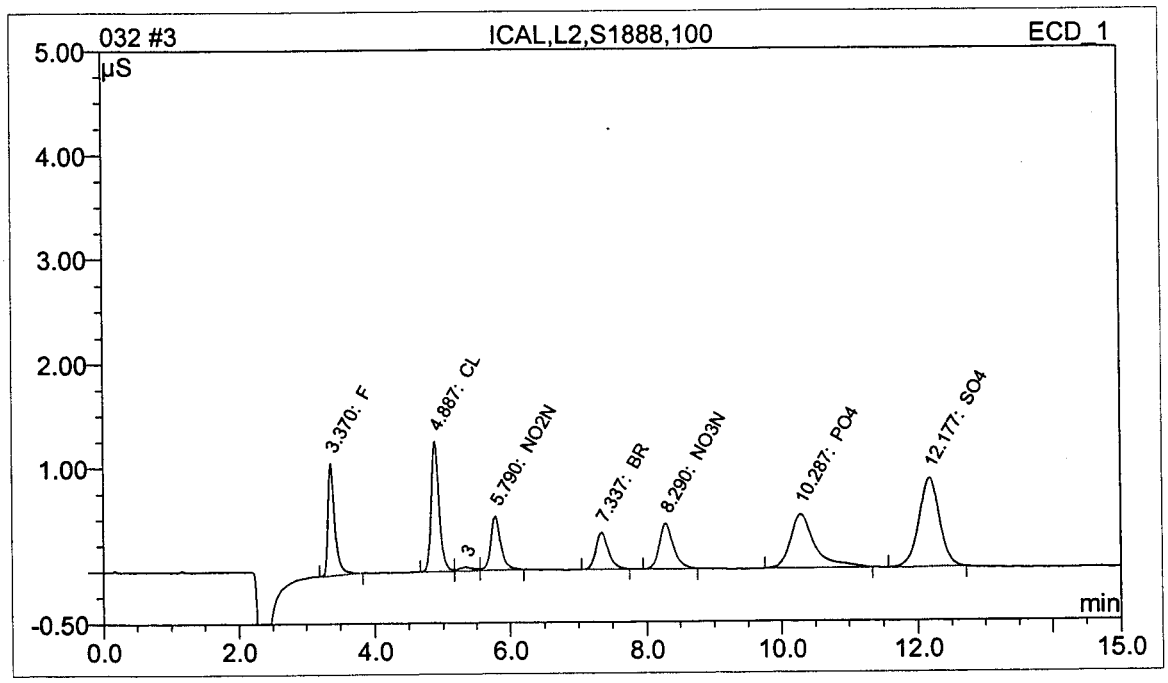
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L2,S1888,100	**Sample No.:**	3
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:46 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	0.127500	0.4556	0.4556	
2	CL	4.887	0.169780	0.9695	0.9695	
4	NO2N	5.790	0.089380	0.2492	0.2492	
5	BR	7.337	0.075668	0.9749	0.9749	
6	NO3N	8.290	0.106521	0.2410	0.2410	
7	PO4	10.287	0.217220	0.9015	0.9015	
8	SO4	12.177	0.303977	2.3979	2.3979	



ANALYZED BY: _____

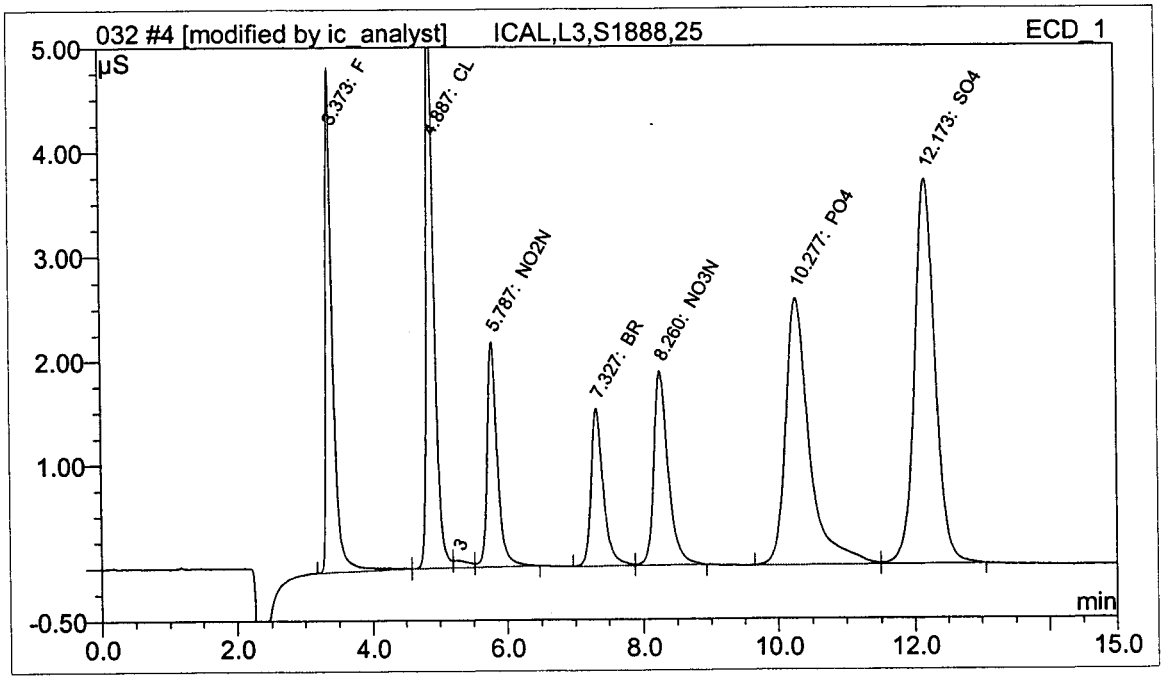
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L3,S1888,25	**Sample No.:**	4
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:03 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.373	0.576603	2.0232	2.0232	
2	CL	4.887	0.728921	4.0490	4.0490	
4	NO2N	5.787	0.372151	1.0262	1.0262	
5	BR	7.327	0.322907	4.1274	4.1274	
6	NO3N	8.260	0.457889	1.0205	1.0205	
7	PO4	10.277	1.024032	4.3482	4.3482	
8	SO4	12.173	1.314019	10.1736	10.1736	



ANALYZED BY: _____

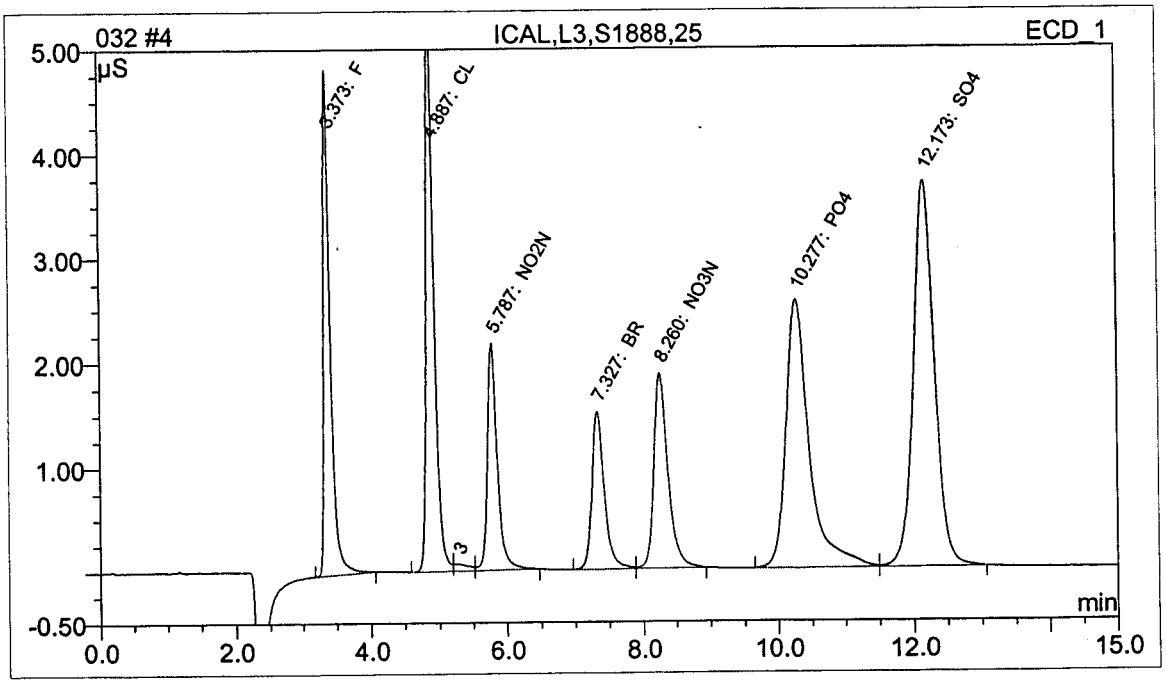
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L3,S1888,25	**Sample No.:**	4
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:03 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.373	0.560194	1.9831	1.9831	
2	CL	4.887	0.728921	4.0490	4.0490	
4	NO2N	5.787	0.372151	1.0262	1.0262	
5	BR	7.327	0.322907	4.1274	4.1274	
6	NO3N	8.260	0.457889	1.0205	1.0205	
7	PO4	10.277	1.024032	4.3482	4.3482	
8	SO4	12.173	1.314019	10.1736	10.1736	



ANALYZED BY: _____

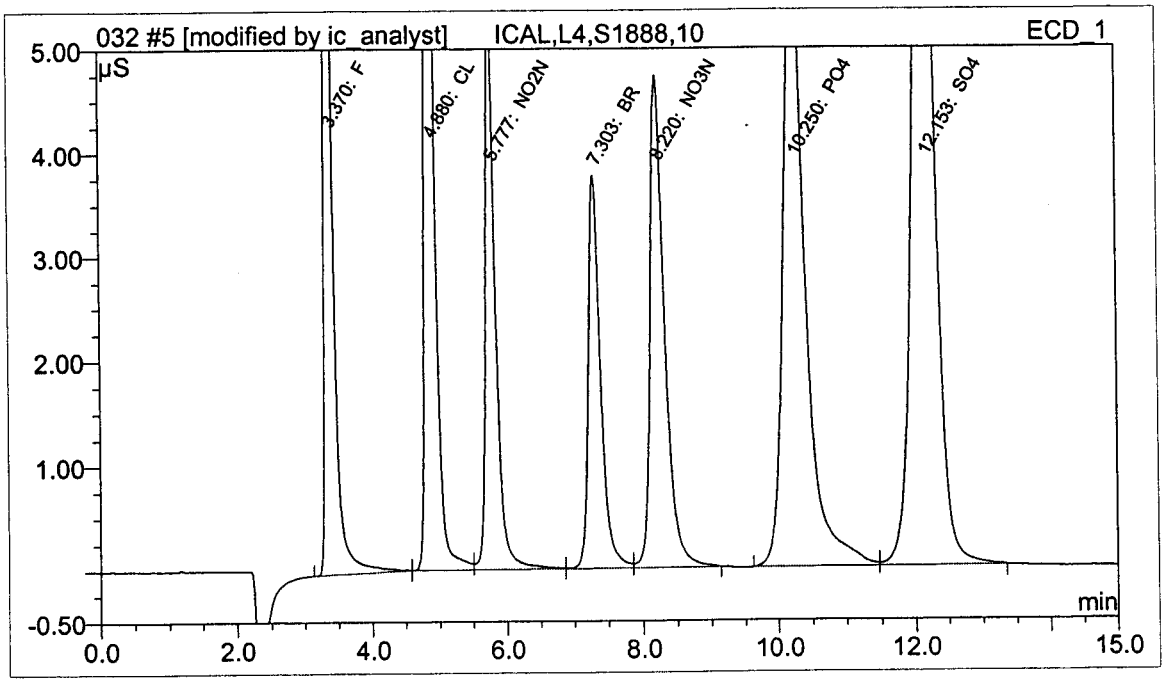
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L4,S1888,10	**Sample No.:**	5
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:21 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	1.469972	4.9922	4.9922	
2	CL	4.880	1.890327	9.9765	9.9765	
3	NO2N	5.777	0.919106	2.4839	2.4839	
4	BR	7.303	0.786634	9.9212	9.9212	
5	NO3N	8.220	1.147425	2.4887	2.4887	
6	PO4	10.250	2.219833	9.7819	9.7819	
7	SO4	12.153	3.327253	24.9069	24.9069	



ANALYZED BY: _____

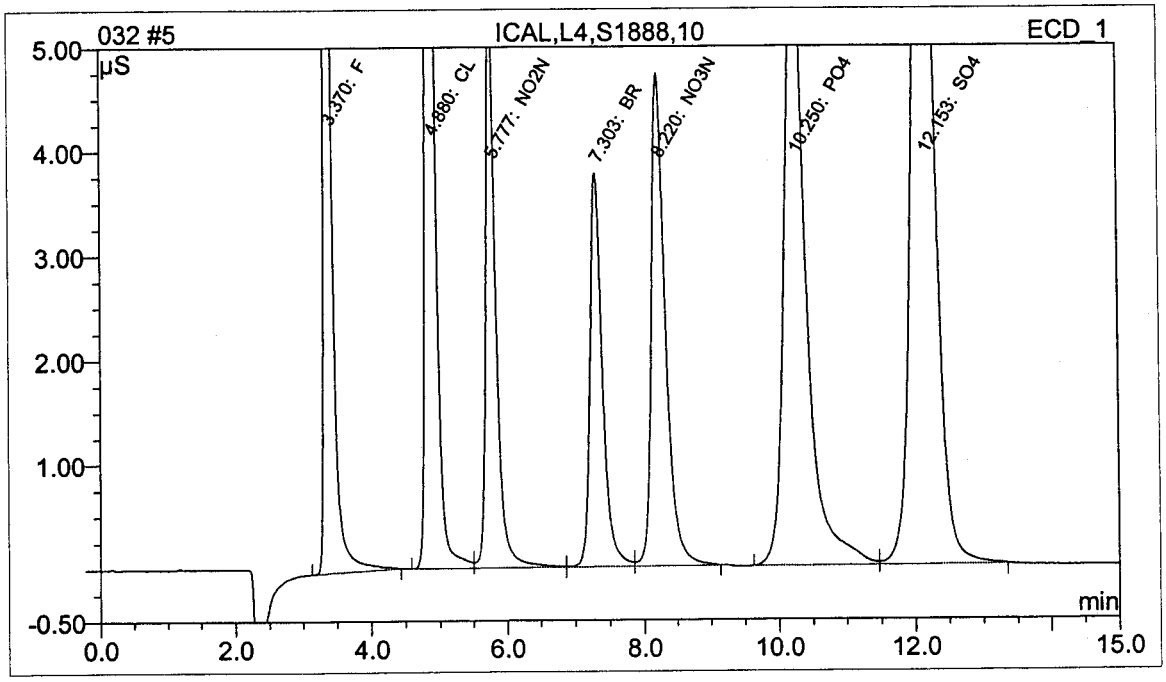
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L4,S1888,10	**Sample No.:**	5
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:21 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	1.463674	4.9860	4.9860	
2	CL	4.880	1.890327	9.9765	9.9765	
3	NO2N	5.777	0.919106	2.4839	2.4839	
4	BR	7.303	0.786634	9.9212	9.9212	
5	NO3N	8.220	1.147425	2.4887	2.4887	
6	PO4	10.250	2.219833	9.7819	9.7819	
7	SO4	12.153	3.327253	24.9069	24.9069	



ANALYZED BY: _____

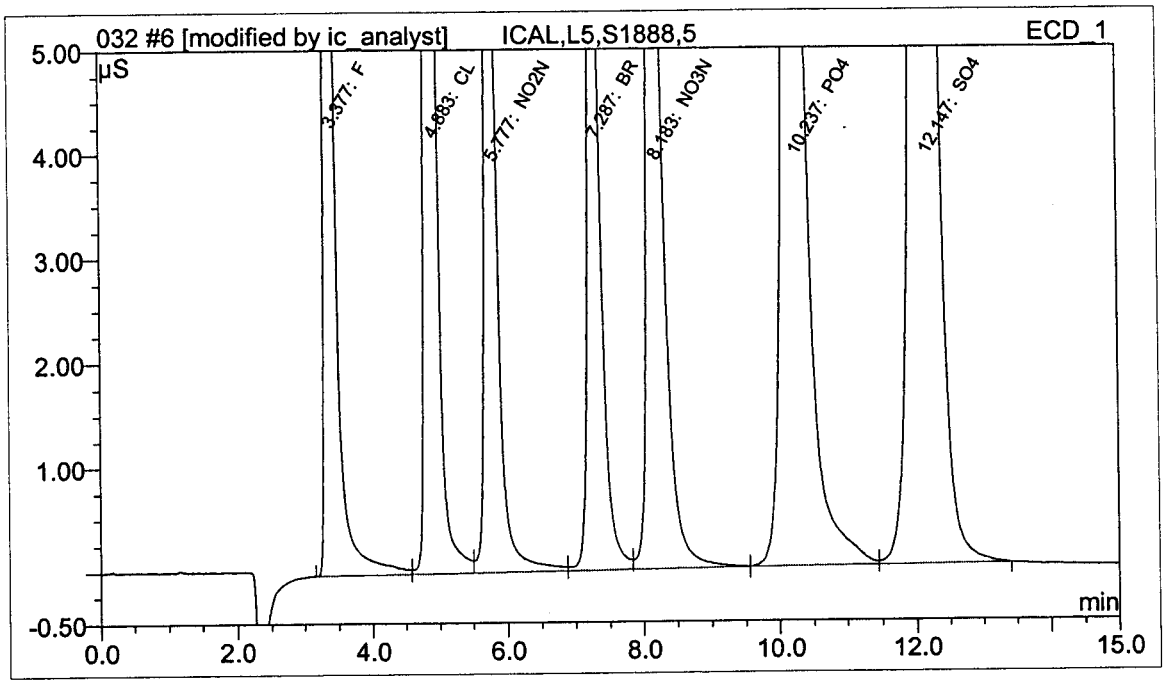
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L5,S1888,5	**Sample No.:**	6
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:38 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.377	3.104502	10.0011	10.0011	
2	CL	4.883	4.110030	20.0036	20.0036	
3	NO2N	5.777	1.915021	5.0028	5.0028	
4	BR	7.287	1.623599	20.0141	20.0141	
5	NO3N	8.183	2.411883	5.0019	5.0019	
6	PO4	10.237	4.224545	20.0468	20.0468	
7	SO4	12.147	7.058845	50.0153	50.0153	



ANALYZED BY: _____

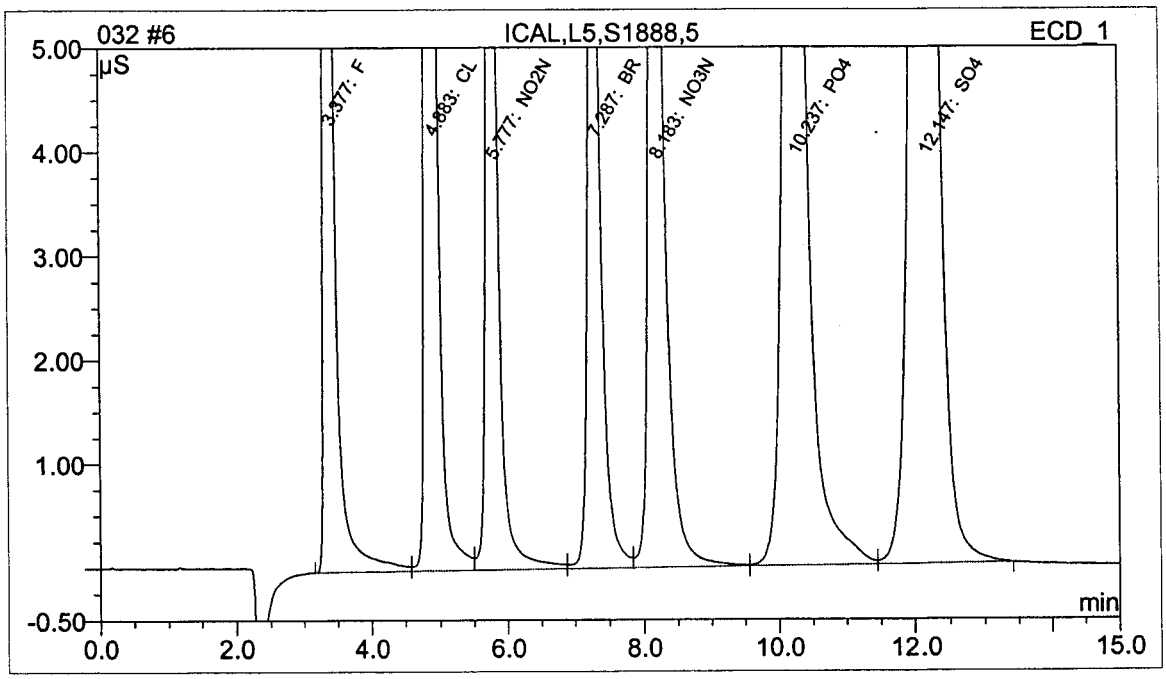
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L5,S1888,5	**Sample No.:**	6
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:38 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.377	3.105467	10.0011	10.0011	
2	CL	4.883	4.111657	20.0037	20.0037	
3	NO2N	5.777	1.918949	5.0029	5.0029	
4	BR	7.287	1.627431	20.0145	20.0145	
5	NO3N	8.183	2.420882	5.0021	5.0021	
6	PO4	10.237	4.233171	20.0470	20.0470	
7	SO4	12.147	7.061876	50.0155	50.0155	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185381 IC Water
EPA 300.0

Inst : IC01
Calnum : 606046871001 Cal Date: 01-FEB-2006

ICV 606046871007 (032_7.000 01-FEB-2006) stds: S1085 (5X)

Analyte	Spiked	Quant	Units	%D	Max	Flags
Fluoride	1.000	0.9085	mg/L	-9	10	
Chloride	2.000	1.856	mg/L	-7	10	
Nitrogen, Nitrite	0.5000	0.4846	mg/L	-3	10	
Nitrogen, Nitrate	0.5000	0.4506	mg/L	-10	10	
Sulfate	5.000	4.911	mg/L	-2	10	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606046871007 File : 032_7.000 Time : 01-FEB-2006 14:56
Cal : 606046871001 Caldate: 01-FEB-2006

Standards: S1085 (5X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Fluoride	0.2814	0.2557	1.000	0.9085	mg/L	-9	10	
Chloride	0.1842	0.1638	2.000	1.856	mg/L	-7	10	
Nitrogen, Nitrite	0.3733	0.3488	0.5000	0.4846	mg/L	-3	10	
Bromide	0.0789	0.0774	2.000	1.990	mg/L	-1	10	
Nitrogen, Nitrate	0.4558	0.4001	0.5000	0.4506	mg/L	-10	10	
Orthophosphate (as P)	0.2156	0.2973	2.000	2.494	mg/L	**25**	10	v+ *** NT
Sulfate	0.1305	0.1253	5.000	4.911	mg/L	-2	10	

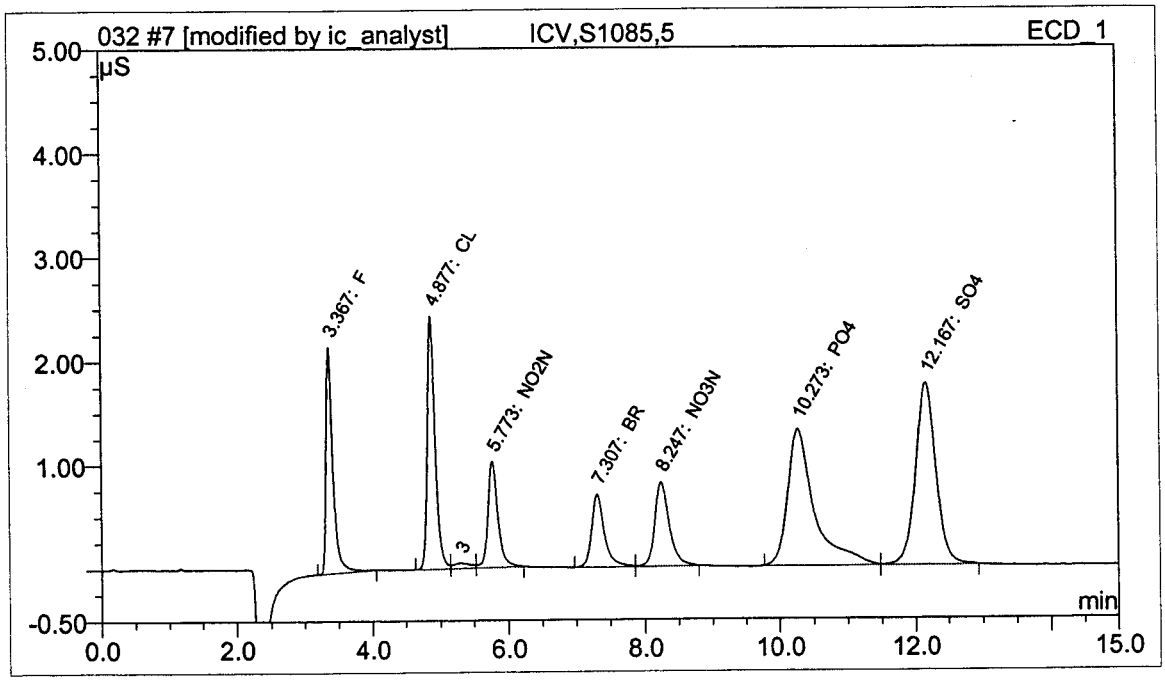
MAS 2/1/06

+=high bias v=ICV

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:56 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.367	0.255692	0.9085	0.9085	
2	CL	4.877	0.327591	1.8557	1.8557	
4	NO2N	5.773	0.174392	0.4846	0.4846	
5	BR	7.307	0.154881	1.9896	1.9896	
6	NO3N	8.247	0.200041	0.4506	0.4506	
7	PO4	10.273	0.594629	2.4939	2.4939	
8	SO4	12.167	0.626486	4.9106	4.9106	



ANALYZED BY: _____

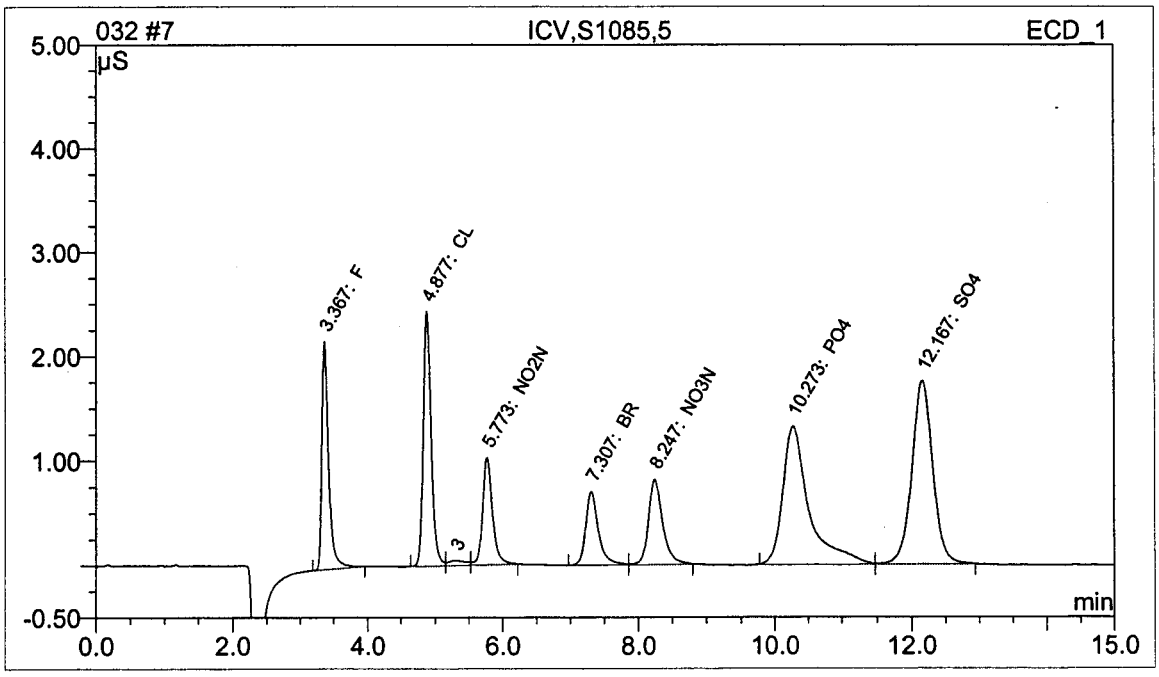
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:56 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.367	0.253367	0.9003	0.9003	
2	CL	4.877	0.327591	1.8557	1.8557	
4	NO2N	5.773	0.174392	0.4846	0.4846	
5	BR	7.307	0.154881	1.9896	1.9896	
6	NO3N	8.247	0.200041	0.4506	0.4506	
7	PO4	10.273	0.594629	2.4939	2.4939	
8	SO4	12.167	0.626486	4.9106	4.9106	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185381 IC Water: EPA 300.0

Inst : IC03 Reviewer: MCH
Calnum : 626087283001 Date : 01-MAR-2006 15:02 Inj Vol : 25 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	060_2.000	626087283002	L1	01-MAR-2006 15:02	S1888 (500X)
L2	060_3.000	626087283003	L2	01-MAR-2006 15:20	S1888 (100X)
L3	060_4.000	626087283004	L3	01-MAR-2006 15:39	S1888 (25X)
L4	060_5.000	626087283005	L4	01-MAR-2006 15:57	S1888 (10X)
L5	060_6.000	626087283006	L5	01-MAR-2006 16:15	S1888 (5X)

Analyte	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MnR^2	Flg
Fluoride	0.1716	0.1970	0.2011	0.2058	0.2193	QORG	A		0.19367	0.002557	mg/L	0.1990	1.000	0.990	
Chloride	0.2004	0.1474	0.1573	0.1617	0.1760	QORG	A		0.14901	0.001346	mg/L	0.1686	1.000	0.990	
Nitrogen, Nitrite	0.2691	0.2776	0.3037	0.3039	0.3170	QORG	A		0.29330	0.004711	mg/L	0.2943	1.000	0.990	
Nitrogen, Nitrate	0.3560	0.3834	0.3978	0.3870	0.4128	QORG	A		0.37136	0.008191	mg/L	0.3874	1.000	0.990	
Sulfate	0.1066	0.1006	0.1099	0.1118	0.1203	QORG	A		0.10436	3.187E-4	mg/L	0.1099	1.000	0.990	

468

QORG=Quadratic regression forced through origin

Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 300.0

Inst : IC03
Calnum : 626087283001 Date : 01-MAR-2006 15:02 Inj Vol: 25 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	060_2.000	626087283002	L1	01-MAR-2006 15:02	S1888 (500X)
L2	060_3.000	626087283003	L2	01-MAR-2006 15:20	S1888 (100X)
L3	060_4.000	626087283004	L3	01-MAR-2006 15:39	S1888 (25X)
L4	060_5.000	626087283005	L4	01-MAR-2006 15:57	S1888 (10X)
L5	060_6.000	626087283006	L5	01-MAR-2006 16:15	S1888 (5X)

Mar 3/2/06

Analyte	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MnR^2	Flg
Fluoride	0.1716	0.1970	0.2011	0.2058	0.2193	QORG	A		0.19367	0.002557	mg/L	0.1990	1.000	0.990	
Chloride	0.2004	0.1474	0.1573	0.1617	0.1760	QORG	A		0.14901	0.001346	mg/L	0.1686	1.000	0.990	
Nitrogen, Nitrite	0.2691	0.2776	0.3037	0.3039	0.3170	QORG	A		0.29330	0.004711	mg/L	0.2943	1.000	0.990	
Bromide	0.0471	0.0627	0.0663	0.0635	0.0673	QORG	A		0.06168	2.750E-4	mg/L	0.0614	1.000	0.990	
Nitrogen, Nitrate	0.3560	0.3834	0.3978	0.3870	0.4128	QORG	A		0.37136	0.008191	mg/L	0.3874	1.000	0.990	
Orthophosphate (as P)	0.0986	0.1086	0.1241	0.1248	0.1349	QORG	A		0.11651	9.164E-4	mg/L	0.1182	1.000	0.990	NA
Sulfate	0.1066	0.1006	0.1099	0.1118	0.1203	QORG	A		0.10436	3.187E-4	mg/L	0.1099	1.000	0.990	

MRS 3/2/06

499

QORG=Quadratic regression forced through origin

Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

626087283001

Sequence: 060
Operator: ic_analyst
Printed: 3/2/2006 11:25:27 AM

Title: Anions
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006
Timebase: IC3_DX120
#Samples: 8

Created: 8/1/2003 11:03:14 AM by ic_analyst
Last Update: 3/1/2006 4:23:55 PM by ic_analyst

No.	*Batch	Name	Comment	Dil. Factor	Program	Status	Inj. Date/Time
1	CAL-060	IB		1.0000	IC03-7AN	Finished	3/1/2006 2:43:54 PM
2	CAL-060	ICAL, L1,S1888,500		1.0000	IC03-7AN	Finished	3/1/2006 3:02:19 PM
3	CAL-060	ICAL, L2,S1888,100		1.0000	IC03-7AN	Finished	3/1/2006 3:20:44 PM
4	CAL-060	ICAL, L3,S1888,25		1.0000	IC03-7AN	Finished	3/1/2006 3:39:08 PM
5	CAL-060	ICAL, L4,S1888,10		1.0000	IC03-7AN	Finished	3/1/2006 3:57:33 PM
6	CAL-060	ICAL, L5,S1888,5		1.0000	IC03-7AN	Finished	3/1/2006 4:15:58 PM
7	CAL-060	ICV,S1085,5		1.0000	IC03-7AN	Finished	3/1/2006 4:34:23 PM
8	CAL-060	ICB		1.0000	IC03-7AN	Finished	3/1/2006 4:52:47 PM

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Sequence: 060
Operator: ic_analyst
Printed: 3/2/2006 11:25:27 AM

Title: Anions
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006
Timebase: IC3_DX120
#Samples: 8

Created: 8/1/2003 11:03:14 AM by ic_analyst
Last Update: 3/1/2006 4:23:55 PM by ic_analyst

No.	*Batch	Name	Comment	Method	Type	Inj. Vol.	*operator	*PDF
1	CAL-060	IB		IC03-7AN_CAL	Unknown	25.0	MRS	1
2	CAL-060	ICAL, L1,S1888,500		IC03-7AN_CAL	Standard	25.0	MRS	1
3	CAL-060	ICAL, L2,S1888,100		IC03-7AN_CAL	Standard	25.0	MRS	1
4	CAL-060	ICAL, L3,S1888,25		IC03-7AN_CAL	Standard	25.0	MRS	1
5	CAL-060	ICAL, L4,S1888,10		IC03-7AN_CAL	Standard	25.0	MRS	1
6	CAL-060	ICAL, L5,S1888,5		IC03-7AN_CAL	Standard	25.0	MRS	1
7	CAL-060	ICV,S1085,5		IC03-7AN_CAL	Unknown	25.0	MRS	1
8	CAL-060	ICB		IC03-7AN_CAL	Unknown	25.0	MRS	1

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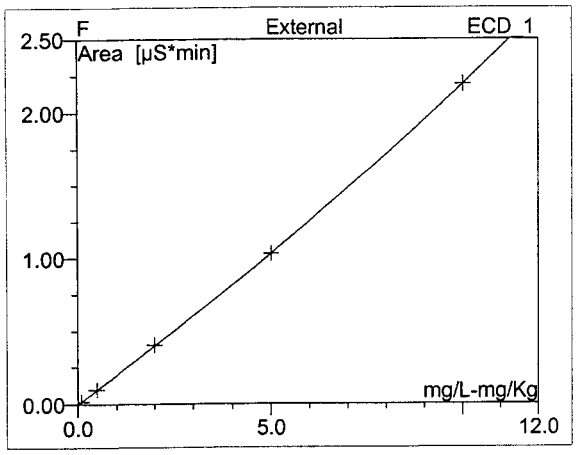
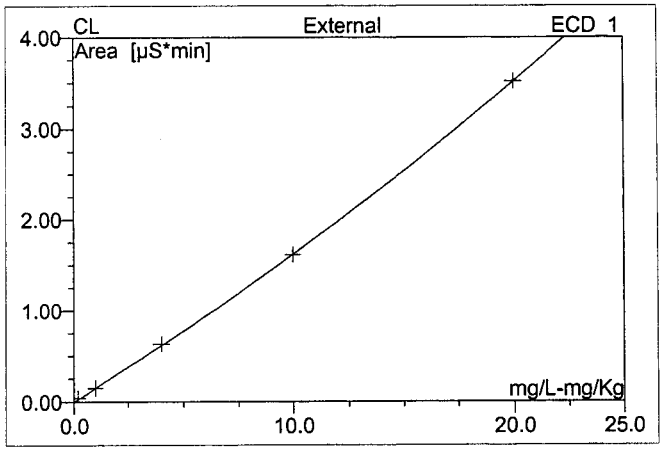
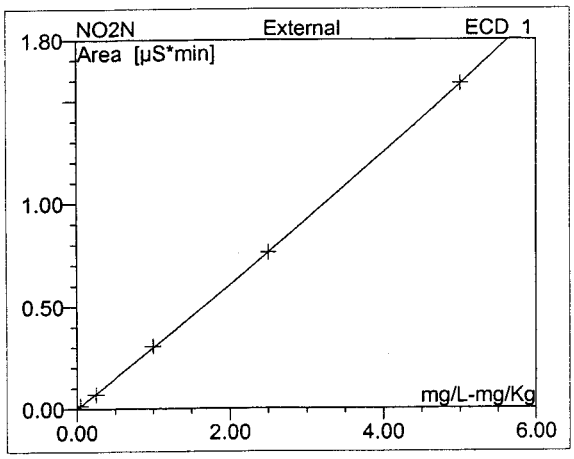
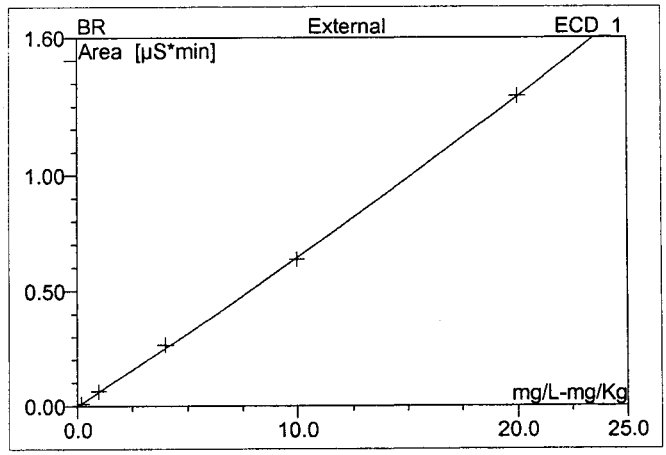
IC03 Calibration Batch Report

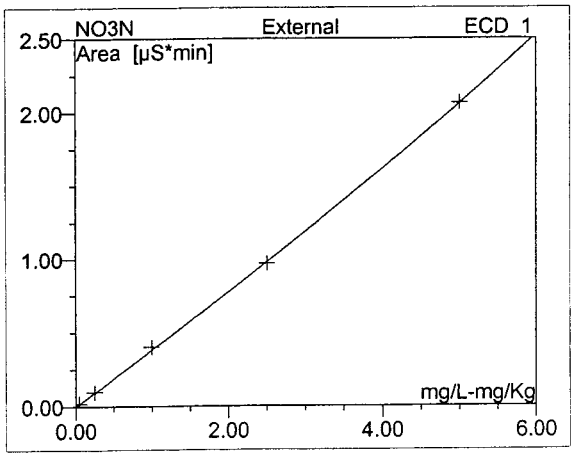
Sequence:	060	Inj. Vol.:	25.0
Program:	IC03-7AN	Operator:	PC_NEWIC
Inj. Date/Time:	03/01/06 15:39	Run Time:	16.00

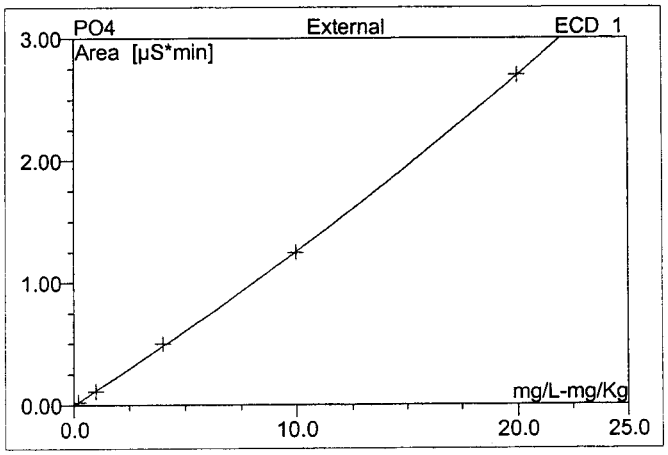




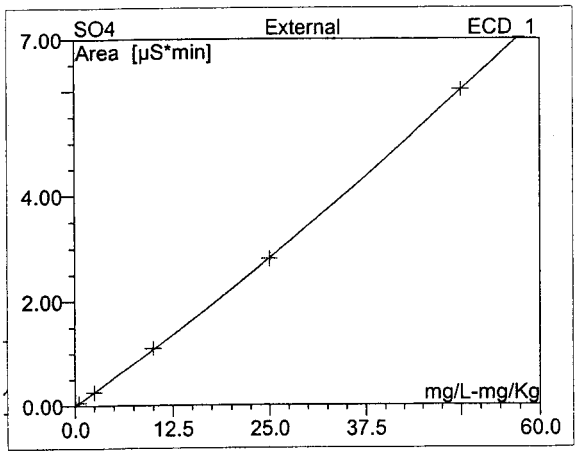








Sequence:	060	*Inj. Vol.:*	25.0
Program:	IC03-7AN	*Operator:*	n.a.
Inj. Date/Time:	03/01/06 15:39	*Run Time:*	16.00



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	2.870	F	Quad	5	0.000000	0.193669	0.002557	99.951556
2	4.217	CL	Quad	5	0.000000	0.149009	0.001346	99.909274
3	5.010	NO2N	Quad	5	0.000000	0.293301	0.004711	99.980499
4	6.363	BR	Quad	5	0.000000	0.061677	0.000275	99.961186
5	7.183	NO3N	Quad	5	0.000000	0.371363	0.008191	99.950755
6	9.350	PO4	Quad	5	0.000000	0.116513	0.000916	99.934448
7	11.167	SO4	Quad	5	0.000000	0.104363	0.000319	99.936780
AVERAGE:					0.000000	0.184271	0.002616	99.946357

No.	Name	Area µS*min F ECD_1	Area µS*min CL ECD_1	Area µS*min NO2N ECD_1	Area µS*min BR ECD_1	Area µS*min NO3N ECD_1	Area µS*min PO4 ECD_1	Area µS*min SO4 ECD_1
2	ICAL, L1,S18	0.017161	0.040074	0.013455	0.009416	0.017801	0.019729	0.053320
3	ICAL, L2,S18	0.098503	0.147367	0.069403	0.062700	0.095842	0.108648	0.251558
4	ICAL, L3,S18	0.402286	0.629116	0.303748	0.265105	0.397785	0.496547	1.098657
5	ICAL, L4,S18	1.029135	1.617474	0.759872	0.635291	0.967493	1.248459	2.795566
6	ICAL, L5,S18	2.192959	3.519967	1.584757	1.345233	2.063887	2.698316	6.017213

No.	Name	Height µS F ECD_1	Height µS CL ECD_1	Height µS NO2N ECD_1	Height µS BR ECD_1	Height µS NO3N ECD_1	Height µS PO4 ECD_1	Height µS SO4 ECD_1
2	ICAL, L1,S18	0.119928	0.332400	0.084748	0.057026	0.074652	0.061912	0.150120
3	ICAL, L2,S18	0.624736	1.151678	0.427428	0.312212	0.389908	0.332100	0.786078
4	ICAL, L3,S18	2.934282	5.019222	1.815278	1.334402	1.670152	1.537158	3.389914
5	ICAL, L4,S18	7.925782	12.944296	4.498282	3.261344	4.151488	4.029644	8.663126
6	ICAL, L5,S18	18.187422	28.959684	9.537670	7.026382	9.031478	9.108810	19.245860

No.	Name	Amount mg/L-mg/Kg F ECD_1	Amount mg/L-mg/Kg CL ECD_1	Amount mg/L-mg/Kg NO2N ECD_1	Amount mg/L-mg/Kg BR ECD_1	Amount mg/L-mg/Kg NO3N ECD_1	Amount mg/L-mg/Kg PO4 ECD_1	Amount mg/L-mg/Kg SO4 ECD_1
2	ICAL, L1,S18	0.088509	0.268287	0.045841	0.152565	0.047883	0.169101	0.510110
3	ICAL, L2,S18	0.505245	0.980298	0.235735	1.012006	0.256628	0.925752	2.392929
4	ICAL, L3,S18	2.023146	4.072203	1.018944	4.218898	1.046971	4.127700	10.208976
5	ICAL, L4,S18	4.985728	9.958921	2.491093	9.866203	2.470614	9.938275	24.894346
6	ICAL, L5,S18	10.002414	20.006659	5.001430	20.023174	5.005056	20.009590	50.016725

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\060.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/1/2006 4:21:00 PM by ic_analyst

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Inhibit Integration	On	ECD_1
2	2.250	Sensitivity	0.001 "[Signal]"	ECD_1
3	2.250	Minimum Area	0.001 "[Signal]*min"	ECD_1
4	2.250	Peak Slice	0.50 s	ECD_1
5	2.500	Inhibit Integration	Off	ECD_1

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\060.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/1/2006 4:21:00 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Amount ICAL, L1,S1888,500
1	F	2.870 min	5.000 RG	External	Area	Quad	Auto		0.100000
2	CL	4.217 min	5.000 RG	External	Area	Quad	Auto		0.200000
3	NO2N	5.010 min	5.000 RG	External	Area	Quad	Auto		0.050000
4	BR	6.363 min	5.000 RG	External	Area	Quad	Auto		0.200000
5	NO3N	7.183 min	10.000 RG	External	Area	Quad	Auto		0.050000
6	*PO4*	*9.350 min*	*10.000 RG*	*External*	*Area*	*Quad*	*Auto*		*0.200000*
7	SO4	11.167 min	10.000 RG	External	Area	Quad	Auto		0.500000

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Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\060.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/1/2006 4:21:00 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Amount ICAL, L2,S1888,100	Amount ICAL, L3,S1888,25	Amount ICAL, L4,S1888,10	Amount ICAL, L5,S1888,5	Comment
1	F	2.870 min	0.500000	2.000000	5.000000	10.000000	
2	CL	4.217 min	1.000000	4.000000	10.000000	20.000000	
3	NO2N	5.010 min	0.250000	1.000000	2.500000	5.000000	
4	BR	6.363 min	1.000000	4.000000	10.000000	20.000000	
5	NO3N	7.183 min	0.250000	1.000000	2.500000	5.000000	
6	*PO4*	*9.350 min*	*1.000000*	*4.000000*	*10.000000*	*20.000000*	
7	SO4	11.167 min	2.500000	10.000000	25.000000	50.000000	

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\060.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/1/2006 4:21:00 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Resp.Fact.	Amount ICAL, L1,S1888,500	Amount ICAL, L2,S1888,100	Amount ICAL, L3,S1888,25	Amount ICAL, L4,S1888,10
1	F	2.870 min	1.000000	0.100000	0.500000	2.000000	5.000000
2	CL	4.217 min	1.000000	0.200000	1.000000	4.000000	10.000000
3	NO2N	5.010 min	1.000000	0.050000	0.250000	1.000000	2.500000
4	BR	6.363 min	1.000000	0.200000	1.000000	4.000000	10.000000
5	NO3N	7.183 min	1.000000	0.050000	0.250000	1.000000	2.500000
6	*PO4*	*9.350 min*	*1.000000*	*0.200000*	*1.000000*	*4.000000*	*10.000000*
7	SO4	11.167 min	1.000000	0.500000	2.500000	10.000000	25.000000

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\060.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/1/2006 4:21:00 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Amount ICAL, L5,S1888,5	Comment
1	F	2.870 min	10.000000	
2	CL	4.217 min	20.000000	
3	NO2N	5.010 min	5.000000	
4	BR	6.363 min	20.000000	
5	NO3N	7.183 min	5.000000	
6	*PO4*	*9.350 min*	*20.000000*	
7	SO4	11.167 min	50.000000	

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Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\060.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/1/2006 4:21:00 PM by ic_analyst

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time
1	☒	ICAL, L1,S1888,500	2	179	25.0	1.0000	1.0000	1.0000	3/1/2006 3:02:19 PM
2	☒	ICAL, L2,S1888,100	3	179	25.0	1.0000	1.0000	1.0000	3/1/2006 3:20:44 PM
3	☒	ICAL, L3,S1888,25	4	180	25.0	1.0000	1.0000	1.0000	3/1/2006 3:39:08 PM
4	☒	ICAL, L4,S1888,10	5	181	25.0	1.0000	1.0000	1.0000	3/1/2006 3:57:33 PM
5	☒	ICAL, L5,S1888,5	6	182	25.0	1.0000	1.0000	1.0000	3/1/2006 4:15:58 PM

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\060.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/1/2006 4:21:00 PM by ic_analyst

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Calib. Comment
1	☒	ICAL, L1,S1888,500	Ok
2	☒	ICAL, L2,S1888,100	Ok
3	☒	ICAL, L3,S1888,25	Ok
4	☒	ICAL, L4,S1888,10	Ok
5	☒	ICAL, L5,S1888,5	Ok

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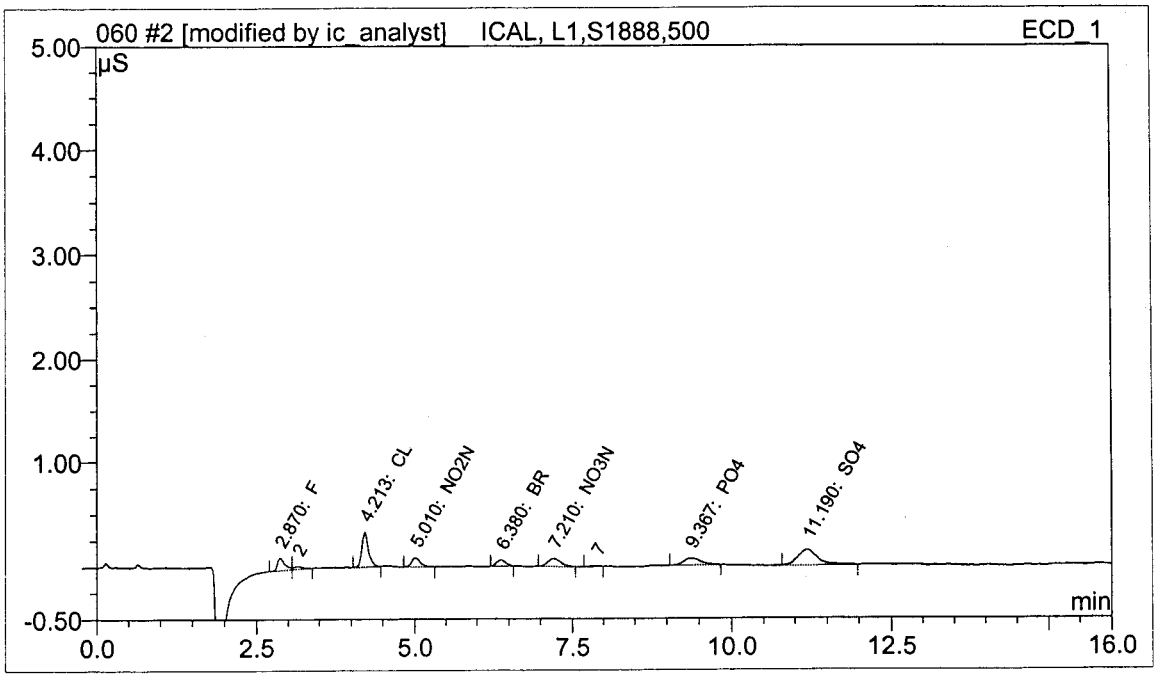
ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L1,S1888,500	**Sample No.:**	2
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:02 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.017161	0.0885	0.0885	
3	CL	4.213	0.040074	0.2683	0.2683	
4	NO2N	5.010	0.013455	0.0458	0.0458	
5	BR	6.380	0.009416	0.1526	0.1526	
6	NO3N	7.210	0.017801	0.0479	0.0479	
8	PO4	9.367	0.019729	0.1691	0.1691	
9	SO4	11.190	0.053320	0.5101	0.5101	



ANALYZED BY: _____

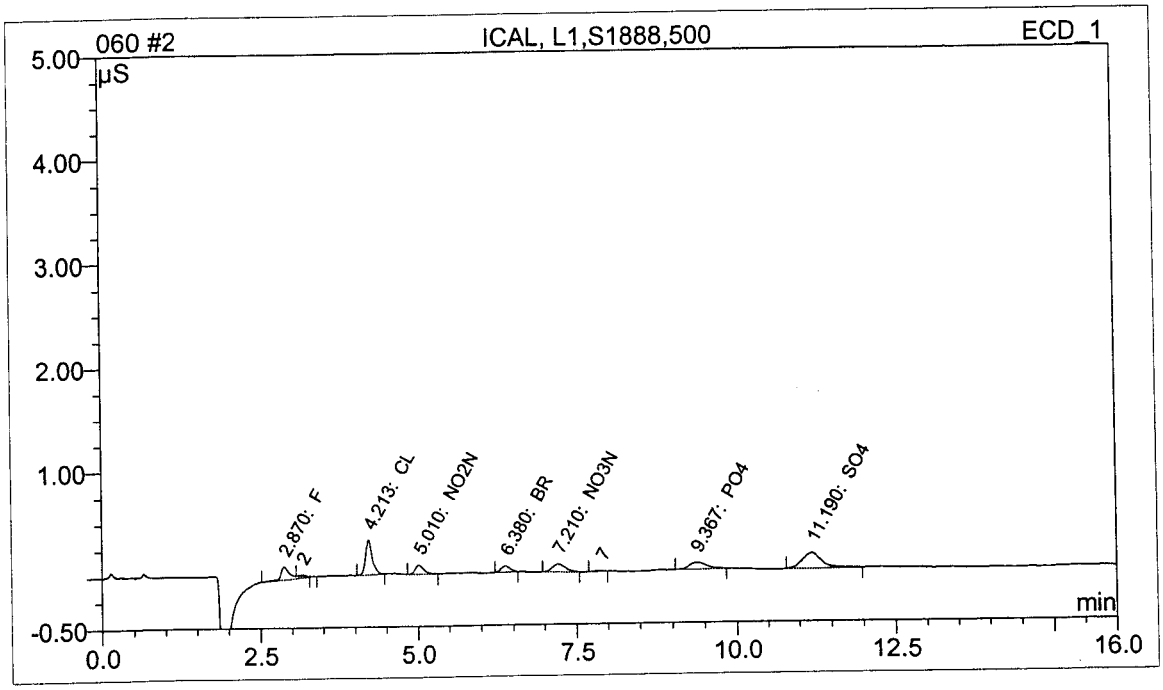
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L1,S1888,500	**Sample No.:**	2
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:02 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.023606	0.1216	0.1216	
3	CL	4.213	0.040074	0.2683	0.2683	
4	NO2N	5.010	0.013455	0.0458	0.0458	
5	BR	6.380	0.009416	0.1526	0.1526	
6	NO3N	7.210	0.017801	0.0479	0.0479	
8	PO4	9.367	0.019729	0.1691	0.1691	
9	SO4	11.190	0.053320	0.5101	0.5101	



ANALYZED BY:

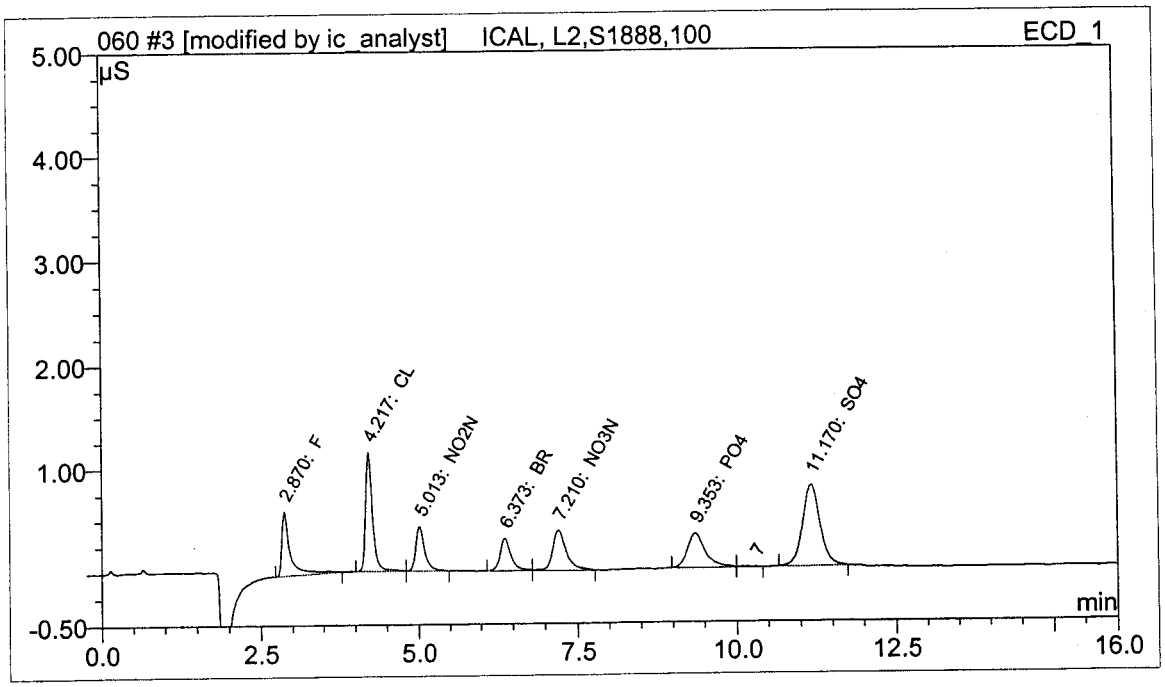
REVIEWED BY:

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L2,S1888,100	**Sample No.:**	3
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:20 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.098503	0.5052	0.5052	
2	CL	4.217	0.147367	0.9803	0.9803	
3	NO2N	5.013	0.069403	0.2357	0.2357	
4	BR	6.373	0.062700	1.0120	1.0120	
5	NO3N	7.210	0.095842	0.2566	0.2566	
6	PO4	9.353	0.108648	0.9258	0.9258	
8	SO4	11.170	0.251558	2.3929	2.3929	



ANALYZED BY: _____

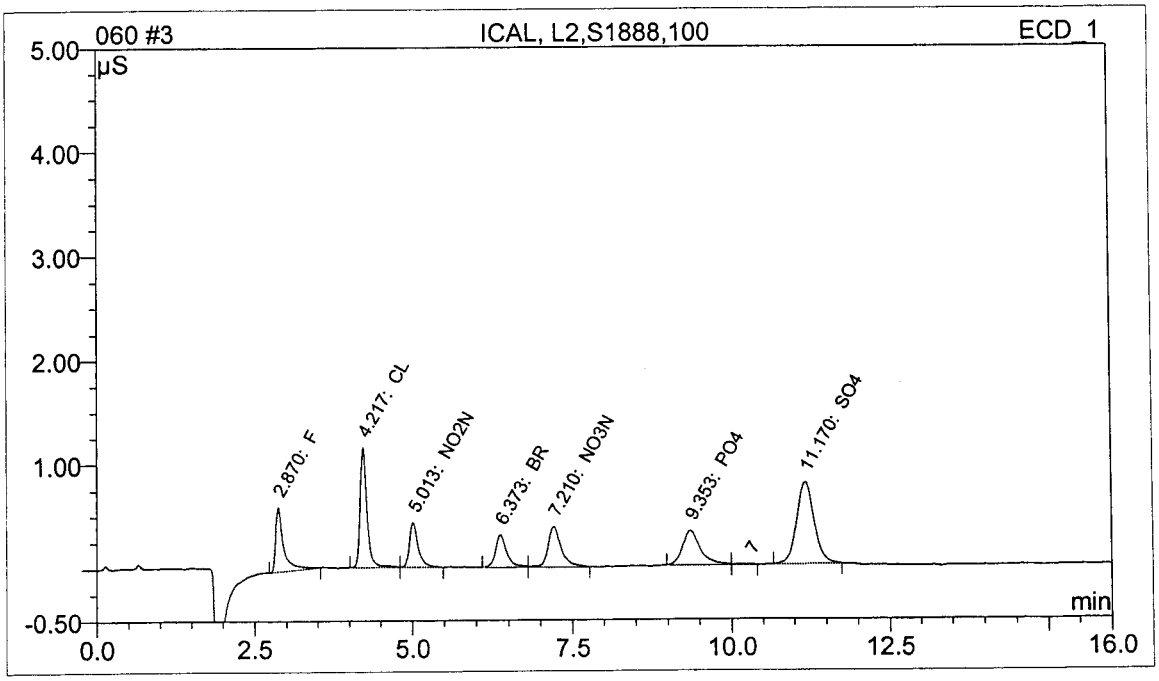
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L2,S1888,100	**Sample No.:**	3
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:20 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.089672	0.4613	0.4613	
2	CL	4.217	0.147367	0.9803	0.9803	
3	NO2N	5.013	0.069403	0.2357	0.2357	
4	BR	6.373	0.062700	1.0120	1.0120	
5	NO3N	7.210	0.095842	0.2566	0.2566	
6	PO4	9.353	0.108648	0.9258	0.9258	
8	SO4	11.170	0.251558	2.3929	2.3929	



ANALYZED BY: _____

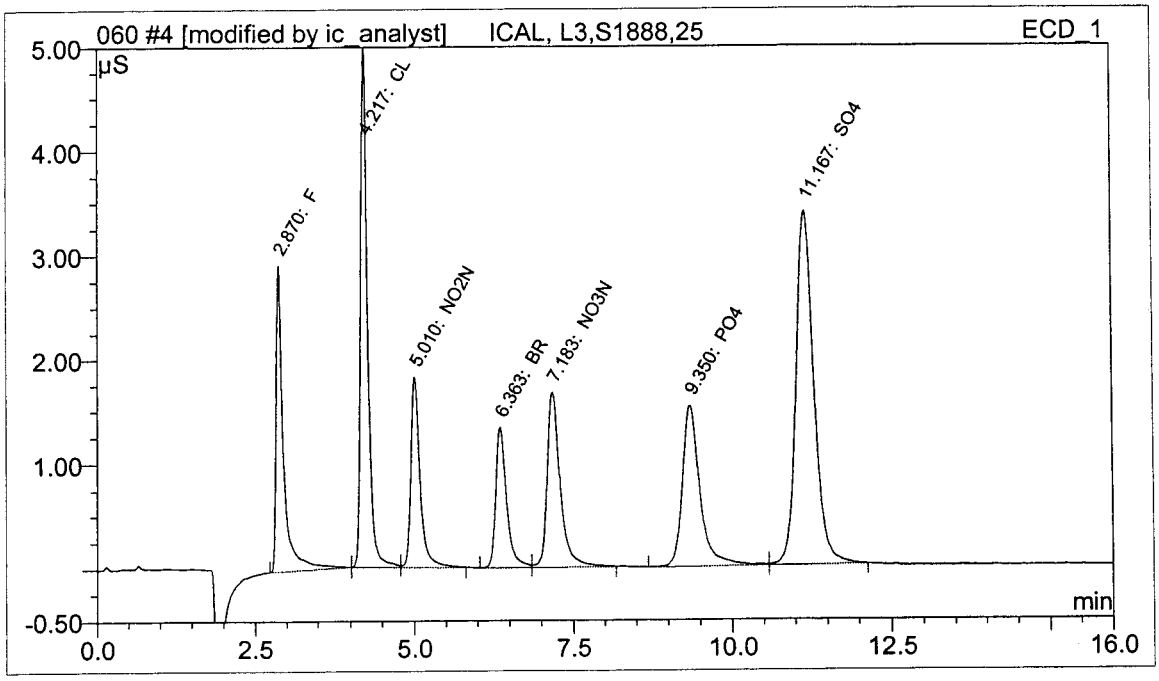
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L3,S1888,25	**Sample No.:**	4
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:39 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.402286	2.0231	2.0231	
2	CL	4.217	0.629116	4.0722	4.0722	
3	NO2N	5.010	0.303748	1.0189	1.0189	
4	BR	6.363	0.265105	4.2189	4.2189	
5	NO3N	7.183	0.397785	1.0470	1.0470	
6	PO4	9.350	0.496547	4.1277	4.1277	
7	SO4	11.167	1.098657	10.2090	10.2090	



ANALYZED BY: _____

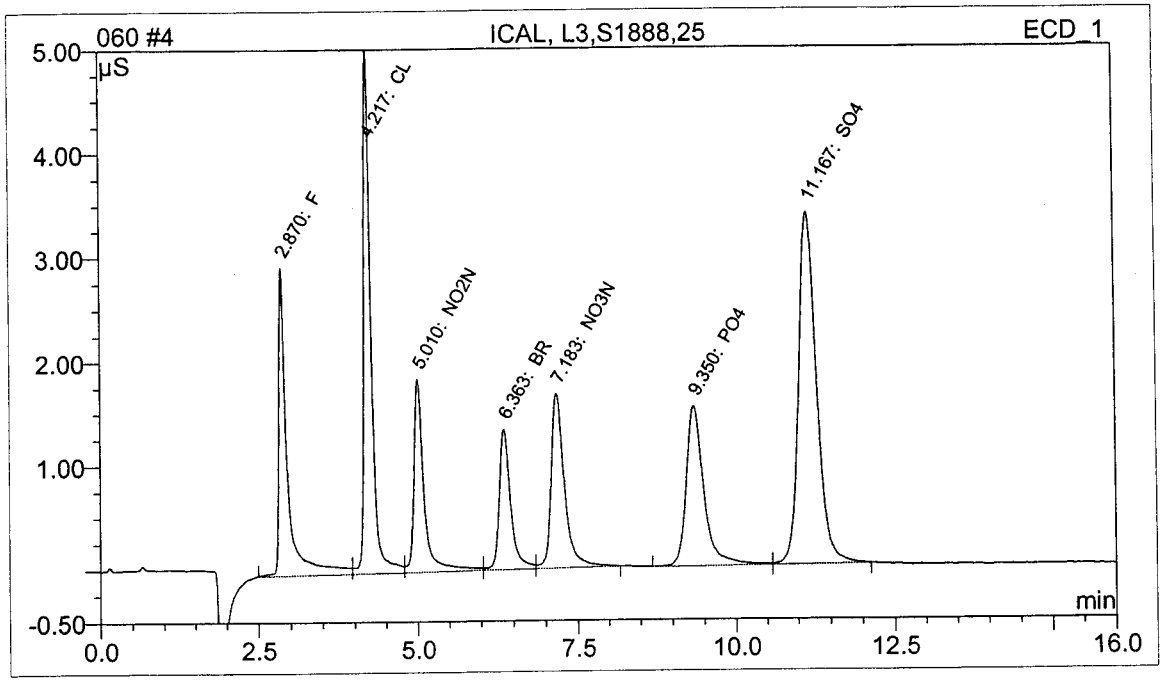
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L3,S1888,25	**Sample No.:**	4
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:39 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.455269	2.2018	2.2018	
2	CL	4.217	0.670131	4.2507	4.2507	
3	NO2N	5.010	0.344377	1.1110	1.1110	
4	BR	6.363	0.276408	4.3412	4.3412	
5	NO3N	7.183	0.404782	1.0595	1.0595	
6	PO4	9.350	0.496547	4.1277	4.1277	
7	SO4	11.167	1.098657	10.2090	10.2090	



ANALYZED BY: _____

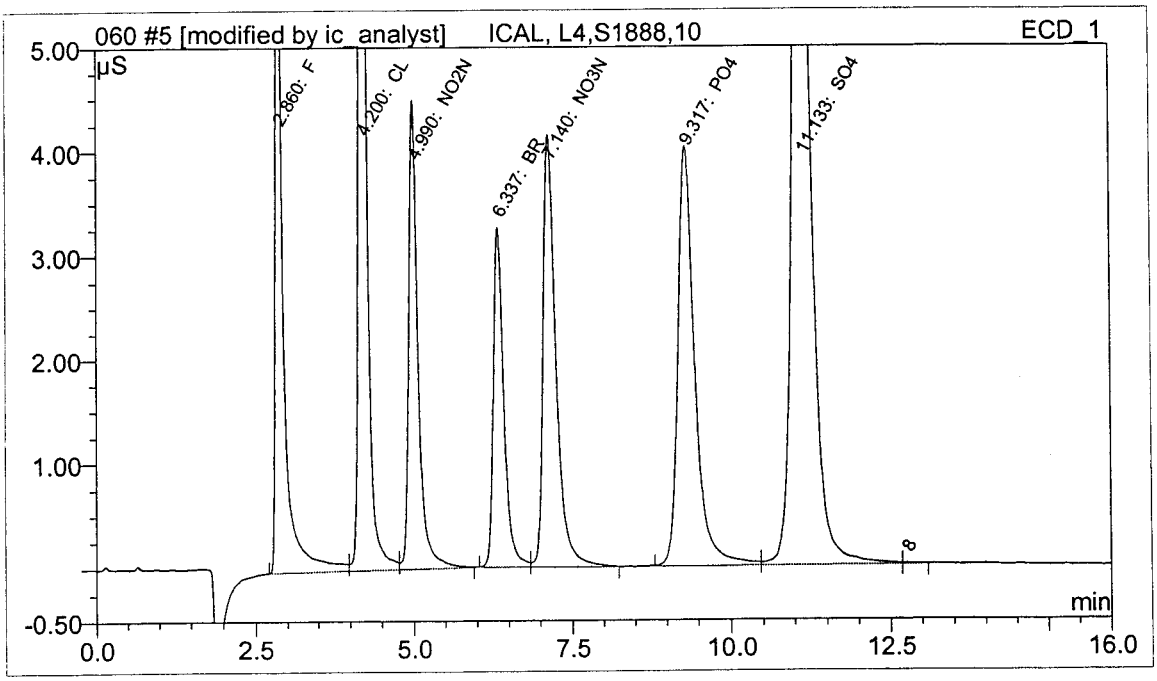
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L4,S1888,10	**Sample No.:**	5
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:57 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.860	1.029135	4.9857	4.9857	
2	CL	4.200	1.617474	9.9589	9.9589	
3	NO2N	4.990	0.759872	2.4911	2.4911	
4	BR	6.337	0.635291	9.8662	9.8662	
5	NO3N	7.140	0.967493	2.4706	2.4706	
6	PO4	9.317	1.248459	9.9383	9.9383	
7	SO4	11.133	2.795566	24.8943	24.8943	



ANALYZED BY: _____

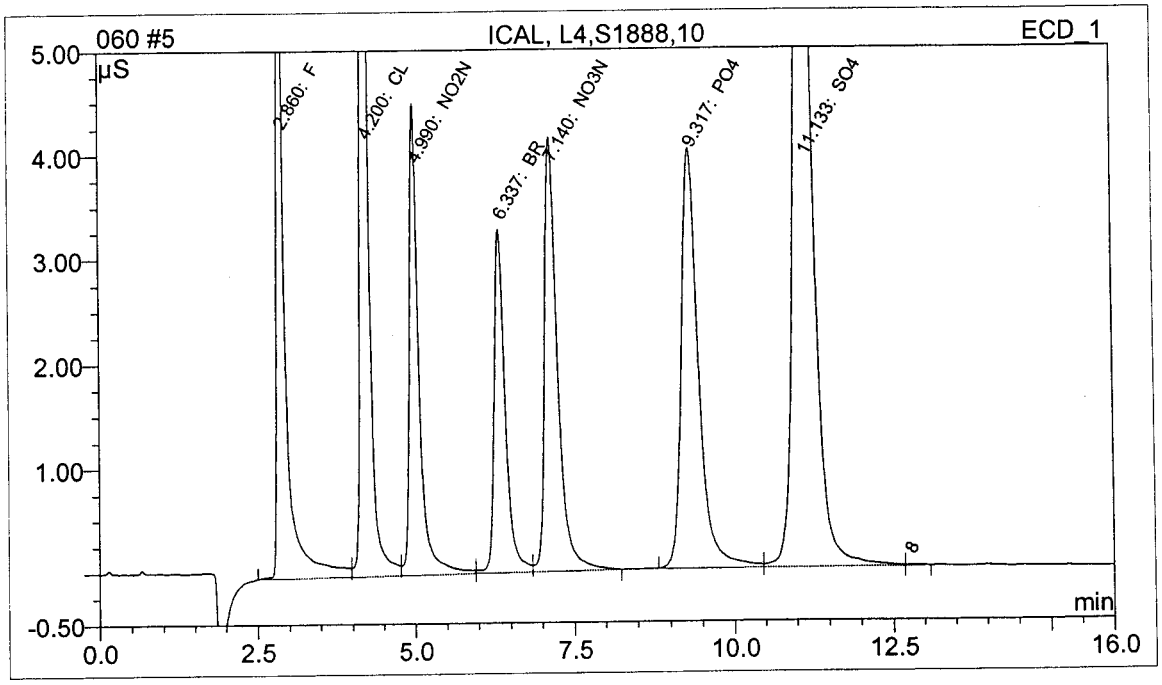
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L4,S1888,10	**Sample No.:**	5
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:57 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.860	1.056871	5.0244	5.0244	
2	CL	4.200	1.636258	9.9916	9.9916	
3	NO2N	4.990	0.792664	2.5227	2.5227	
4	BR	6.337	0.658007	9.9696	9.9696	
5	NO3N	7.140	0.980796	2.4805	2.4805	
6	PO4	9.317	1.248459	9.9383	9.9383	
7	SO4	11.133	2.795566	24.8943	24.8943	



ANALYZED BY: _____

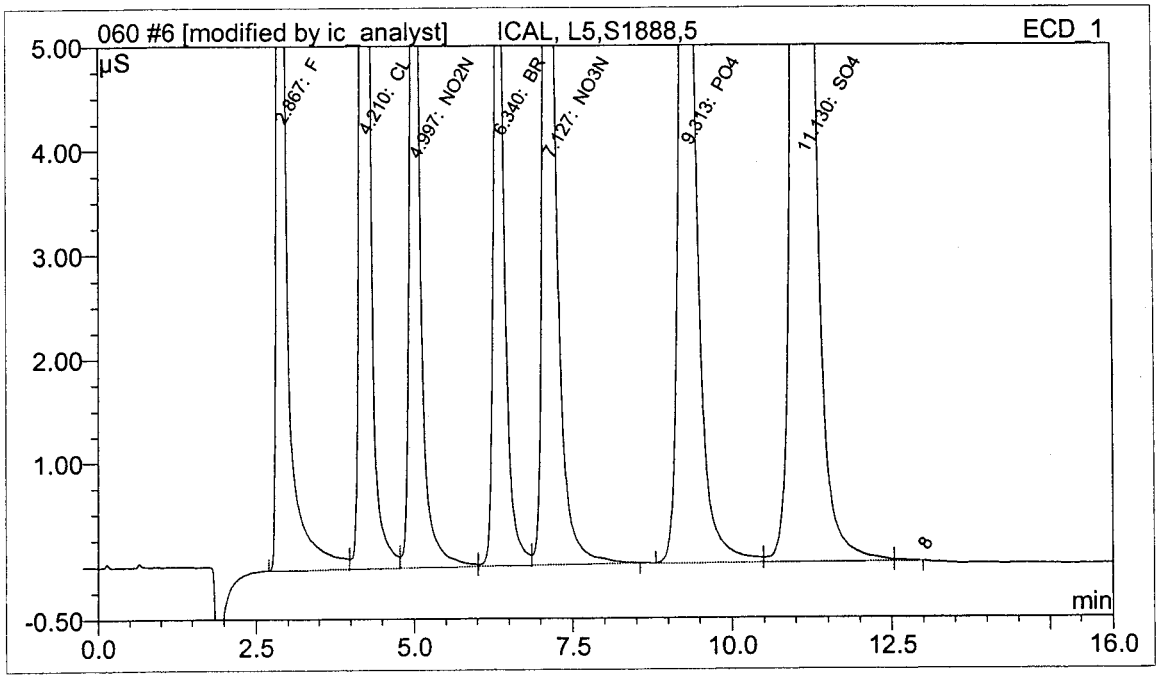
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L5,S1888,5	**Sample No.:**	6
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:15 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.867	2.192959	10.0024	10.0024	
2	CL	4.210	3.519967	20.0067	20.0067	
3	NO2N	4.997	1.584757	5.0014	5.0014	
4	BR	6.340	1.345233	20.0232	20.0232	
5	NO3N	7.127	2.063887	5.0051	5.0051	
6	PO4	9.313	2.698316	20.0096	20.0096	
7	SO4	11.130	6.017213	50.0167	50.0167	



ANALYZED BY: _____

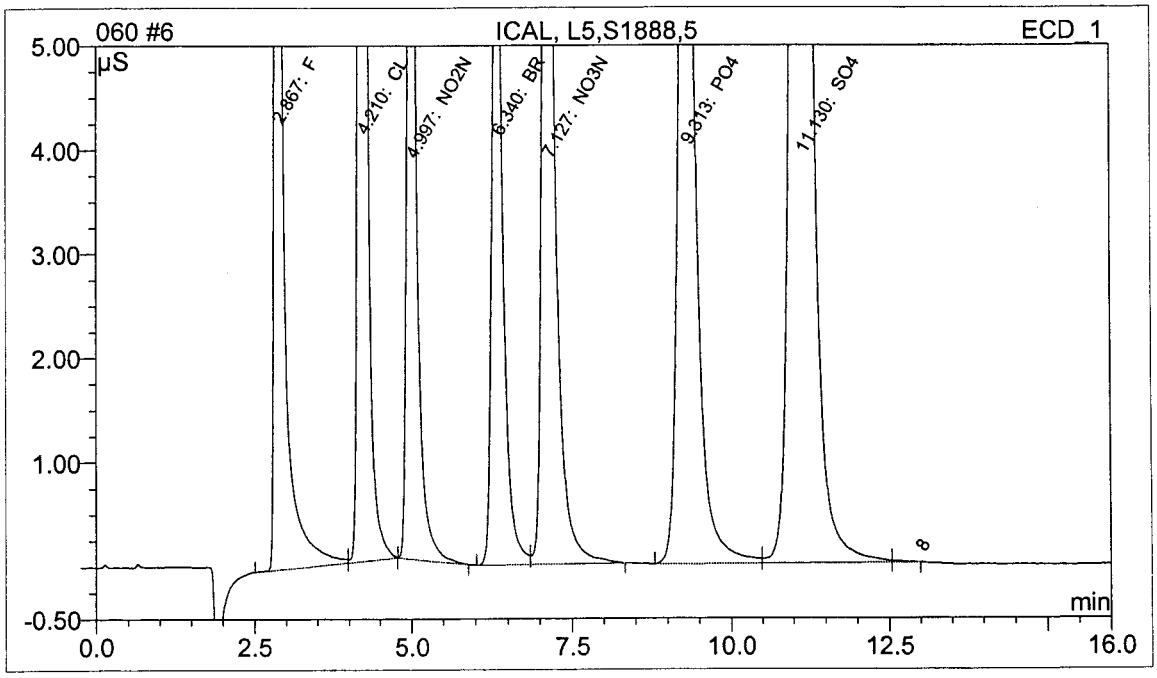
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L5,S1888,5	**Sample No.:**	6
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:15 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.867	2.155657	10.0007	10.0007	
2	CL	4.210	3.453075	20.0031	20.0031	
3	NO2N	4.997	1.510616	4.9988	4.9988	
4	BR	6.340	1.331781	20.0216	20.0216	
5	NO3N	7.127	2.045893	5.0047	5.0047	
6	PO4	9.313	2.698316	20.0096	20.0096	
7	SO4	11.130	6.017213	50.0167	50.0167	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185381 IC Water
EPA 300.0

Inst : IC03
Calnum : 626087283001 Cal Date: 01-MAR-2006

ICV 626087283007 (060_7.000 01-MAR-2006) stds: S1085 (5X)

Analyte	Spiked	Quant	Units	%D	Max	Flags
Fluoride	1.000	0.9473	mg/L	-5	10	
Chloride	2.000	1.920	mg/L	-4	10	
Nitrogen, Nitrite	0.5000	0.4860	mg/L	-3	10	
Nitrogen, Nitrate	0.5000	0.4606	mg/L	-8	10	
Sulfate	5.000	5.047	mg/L	1	10	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 300.0

:nst : IC03
Seqnum : 626087283007 File : 060_7.000
Cal : 626087283001 Caldate: 01-MAR-2006
Standards: S1085 (5X)

IDF : 1.0
Time : 01-MAR-2006 16:34

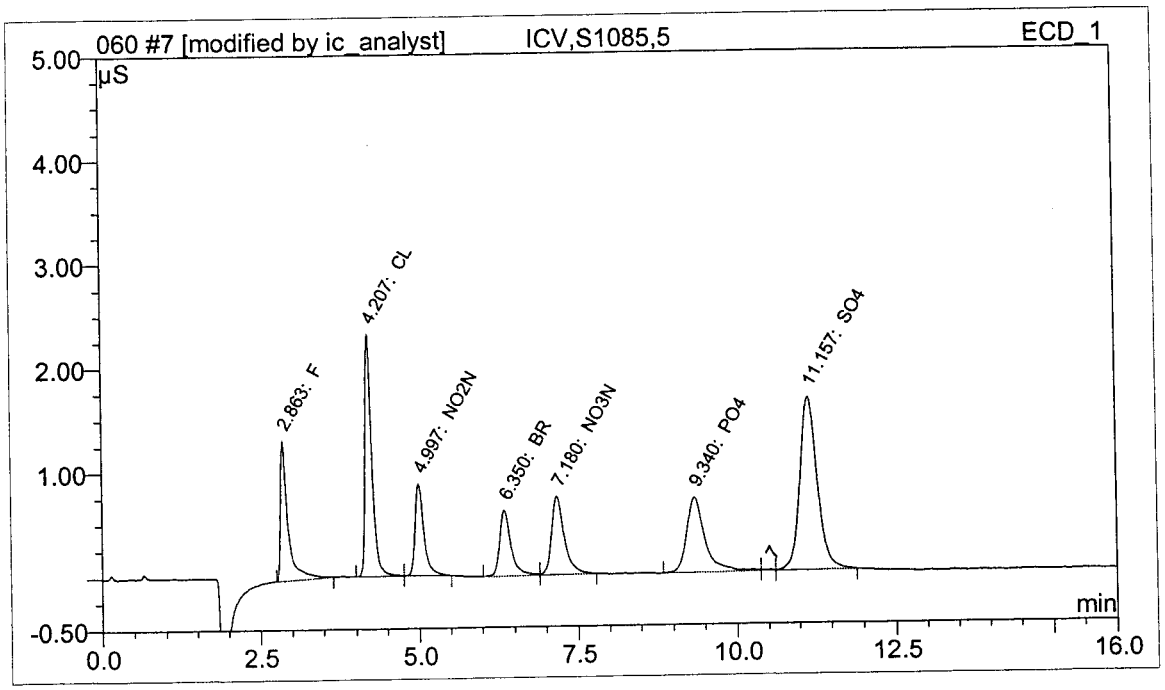
Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Fluoride	0.1990	0.1858	1.000	0.9473	mg/L	-5	10	
Chloride	0.1686	0.1455	2.000	1.920	mg/L	-4	10	
Nitrogen, Nitrite	0.2943	0.2873	0.5000	0.4860	mg/L	-3	10	
Bromide	0.0614	0.0638	2.000	2.050	mg/L	2	10	
Nitrogen, Nitrate	0.3874	0.3456	0.5000	0.4606	mg/L	-8	10	
Orthophosphate (as P)	0.1182	0.1201	2.000	2.029	mg/L	1	10	
Sulfate	0.1099	0.1070	5.000	5.047	mg/L	1	10	

MRS 3/2/06

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:34 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.863	0.185760	0.9473	0.9473	
2	CL	4.207	0.291093	1.9202	1.9202	
3	NO2N	4.997	0.143651	0.4860	0.4860	
4	BR	6.350	0.127568	2.0496	2.0496	
5	NO3N	7.180	0.172776	0.4606	0.4606	
6	PO4	9.340	0.240207	2.0292	2.0292	
8	SO4	11.157	0.534812	5.0468	5.0468	



ANALYZED BY: _____

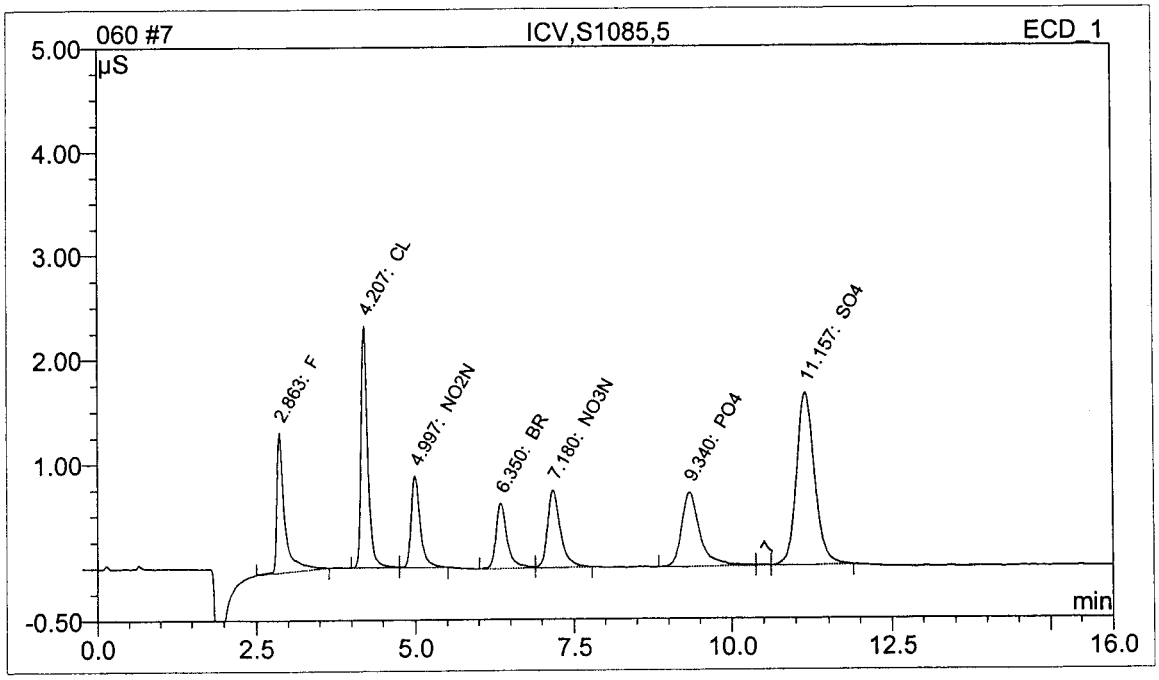
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:34 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.863	0.193974	0.9887	0.9887	
2	CL	4.207	0.291093	1.9202	1.9202	
3	NO2N	4.997	0.143651	0.4860	0.4860	
4	BR	6.350	0.127568	2.0496	2.0496	
5	NO3N	7.180	0.172776	0.4606	0.4606	
6	PO4	9.340	0.240207	2.0292	2.0292	
8	SO4	11.157	0.534812	5.0468	5.0468	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CONTINUING CALIBRATION SUMMARY FOR 185381 IC Water
Curtis & Tompkins Laboratories

Analyte: Fluoride

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606097273009	08-MAR-2006 12:55	606046871001	01-FEB-2006	0.2814	0.2668	2.0000	1.8755	mg/L	-6	10	
IC01	P	606097273021	08-MAR-2006 17:22	606046871001	01-FEB-2006	0.2814	0.2622	0.5000	0.4681	mg/L	-6	10	
IC01	P	606097273034	08-MAR-2006 21:10	606046871001	01-FEB-2006	0.2814	0.2912	5.0000	4.9466	mg/L	-1	10	
IC01	P	606097273052	09-MAR-2006 02:25	606046871001	01-FEB-2006	0.2814	0.2760	2.0000	1.9385	mg/L	-3	10	
IC03	P	626097269007	08-MAR-2006 12:20	626087283001	01-MAR-2006	0.1990	0.2090	0.5000	0.5357	mg/L	7	10	
IC03	P	626097269020	08-MAR-2006 16:38	626087283001	01-MAR-2006	0.1990	0.1987	2.0000	1.9996	mg/L	0	10	
IC03	P	626097269042	08-MAR-2006 22:40	626087283001	01-MAR-2006	0.1990	0.2142	5.0000	5.1762	mg/L	4	10	
IC03	P	626097269060	09-MAR-2006 03:35	626087283001	01-MAR-2006	0.1990	0.1924	0.5000	0.4935	mg/L	-1	10	

CONTINUING CALIBRATION SUMMARY FOR 185381 IC Water
Curtis & Tompkins Laboratories

Analyte: Chloride

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606097273009	08-MAR-2006 12:55	606046871001	01-FEB-2006	0.1842	0.1737	4.0000	3.8666	mg/L	-3	10	
IC01	P	606097273021	08-MAR-2006 17:22	606046871001	01-FEB-2006	0.1842	0.1703	1.0000	0.9725	mg/L	-3	10	
IC01	P	606097273034	08-MAR-2006 21:10	606046871001	01-FEB-2006	0.1842	0.1928	10.000	10.159	mg/L	2	10	
IC03	P	626097269007	08-MAR-2006 12:20	626087283001	01-MAR-2006	0.1686	0.1599	1.0000	1.0632	mg/L	6	10	
IC03	P	626097269020	08-MAR-2006 16:38	626087283001	01-MAR-2006	0.1686	0.1513	4.0000	3.9231	mg/L	-2	10	
IC03	P	626097269042	08-MAR-2006 22:40	626087283001	01-MAR-2006	0.1686	0.1625	10.000	9.9993	mg/L	0	10	
IC03	P	626097269060	09-MAR-2006 03:35	626087283001	01-MAR-2006	0.1686	0.1460	1.0000	0.9713	mg/L	-3	10	
IC03	P	626097269067	09-MAR-2006 05:30	626087283001	01-MAR-2006	0.1686	0.1526	4.0000	3.9549	mg/L	-1	10	

CONTINUING CALIBRATION SUMMARY FOR 185381 IC Water
Curtis & Tompkins Laboratories

Analyte: Nitrogen, Nitrite

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606097273009	08-MAR-2006 12:55	606046871001	01-FEB-2006	0.3733	0.3419	1.0000	0.9440	mg/L	-6	10	
IC01	P	606097273021	08-MAR-2006 17:22	606046871001	01-FEB-2006	0.3733	0.3492	0.2500	0.2434	mg/L	-3	10	
IC01	P	606097273034	08-MAR-2006 21:10	606046871001	01-FEB-2006	0.3733	0.3700	2.5000	2.4992	mg/L	0	10	
IC01	P	606097273052	09-MAR-2006 02:25	606046871001	01-FEB-2006	0.3733	0.3585	1.0000	0.9891	mg/L	-1	10	
IC03	P	626097269007	08-MAR-2006 12:20	626087283001	01-MAR-2006	0.2943	0.3052	0.2500	0.2591	mg/L	4	10	
IC03	P	626097269020	08-MAR-2006 16:38	626087283001	01-MAR-2006	0.2943	0.2995	1.0000	1.0049	mg/L	0	10	
IC03	P	626097269042	08-MAR-2006 22:40	626087283001	01-MAR-2006	0.2943	0.3034	2.5000	2.4866	mg/L	-1	10	
IC03	P	626097269060	09-MAR-2006 03:35	626087283001	01-MAR-2006	0.2943	0.2791	0.2500	0.2370	mg/L	-5	10	

CONTINUING CALIBRATION SUMMARY FOR 185381 IC Water
Curtis & Tompkins Laboratories

Analyte: Nitrogen, Nitrate

Instid	Ch	Seqnum	Injected	Calnum	Caldate	RF/CF	Avg RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606097273009	08-MAR-2006 12:55	606046871001	01-FEB-2006	0.4558	0.4441	1.0000	0.9902	mg/L	-1	10	
IC01	P	606097273021	08-MAR-2006 17:22	606046871001	01-FEB-2006	0.4558	0.4320	0.2500	0.2442	mg/L	-2	10	
IC01	P	606097273034	08-MAR-2006 21:10	606046871001	01-FEB-2006	0.4558	0.4744	2.5000	2.5688	mg/L	3	10	
IC01	P	606097273052	09-MAR-2006 02:25	606046871001	01-FEB-2006	0.4558	0.4643	1.0000	1.0345	mg/L	3	10	
IC03	P	626097269007	08-MAR-2006 12:20	626087283001	01-MAR-2006	0.3874	0.3869	0.2500	0.2590	mg/L	4	10	
IC03	P	626097269020	08-MAR-2006 16:38	626087283001	01-MAR-2006	0.3874	0.3857	1.0000	1.0160	mg/L	2	10	
IC03	P	626097269042	08-MAR-2006 22:40	626087283001	01-MAR-2006	0.3874	0.3848	2.5000	2.4571	mg/L	-2	10	
IC03	P	626097269060	09-MAR-2006 03:35	626087283001	01-MAR-2006	0.3874	0.3538	0.2500	0.2369	mg/L	-5	10	

CONTINUING CALIBRATION SUMMARY FOR 185381 IC Water
Curtis & Tompkins Laboratories

Analyte: Sulfate

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606097273009	08-MAR-2006 12:55	606046871001	01-FEB-2006	0.1305	0.1266	10.000	9.8072	mg/L	-2	10	
IC01	P	606097273021	08-MAR-2006 17:22	606046871001	01-FEB-2006	0.1305	0.1219	2.5000	2.4019	mg/L	-4	10	
IC01	P	606097273034	08-MAR-2006 21:10	606046871001	01-FEB-2006	0.1305	0.1364	25.000	25.501	mg/L	2	10	
IC03	P	626097269007	08-MAR-2006 12:20	626087283001	01-MAR-2006	0.1099	0.1076	2.5000	2.5578	mg/L	2	10	
IC03	P	626097269020	08-MAR-2006 16:38	626087283001	01-MAR-2006	0.1099	0.1067	10.000	9.9213	mg/L	-1	10	
IC03	P	626097269042	08-MAR-2006 22:40	626087283001	01-MAR-2006	0.1099	0.1107	25.000	24.670	mg/L	-1	10	
IC03	P	626097269060	09-MAR-2006 03:35	626087283001	01-MAR-2006	0.1099	0.1020	2.5000	2.4260	mg/L	-3	10	
IC03	P	626097269067	09-MAR-2006 05:30	626087283001	01-MAR-2006	0.1099	0.1091	10.000	10.139	mg/L	1	10	

CURTIS & TOMPKINS BLANK USER REPORT FOR 185381 IC Water
EPA 300.0

Inst	: IC01	Lab ID	: QC330686		
Seqnum	: 606097273010.2	Matrix	: Water		
File	: 067_10.000	Batch	: 111118	Time	: 08-MAR-2006 13:13
IDF	: 1.0	PDF	: 1.0	Units	: mg/L
Cal	: 606046871001	Caldate	: 01-FEB-2006		

Analyte	Result	RL	Flags
Fluoride	ND	0.10	
Chloride	ND	0.20	
Nitrogen, Nitrite	ND	0.05	
Nitrogen, Nitrate	ND	0.05	
Sulfate	ND	0.50	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185381 IC Water
EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606097273022 File : 067_22.000 Time : 08-MAR-2006 17:39
Cal : 606046871001 Caldate: 01-FEB-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.006664	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185381 IC Water
EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606097273035 File : 067_35.000 Time : 08-MAR-2006 21:27
Cal : 606046871001 Caldate: 01-FEB-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.006664	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185381 IC Water
EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606097273053 File : 067_53.000 Time : 09-MAR-2006 02:42
Cal : 606046871001 Caldate: 01-FEB-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.006664	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

CURTIS & TOMPKINS BLANK USER REPORT FOR 185381 IC Water
EPA 300.0

Inst	: IC03	Lab ID	: QC330681		
Seqnum	: 626097269008.2	Matrix	: Water		
File	: 067_8.000	Batch	: 111117	Time	: 08-MAR-2006 12:36
IDF	: 1.0	PDF	: 1.0	Units	: mg/L
Cal	: 626087283001	Caldate	: 01-MAR-2006		

Analyte	Result	RL	Flags
Fluoride	ND	0.10	
Chloride	ND	0.20	
Nitrogen, Nitrite	ND	0.05	
Nitrogen, Nitrate	ND	0.05	
Sulfate	ND	0.50	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185381 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626097269021 File : 067_21.000 Time : 08-MAR-2006 16:55
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185381 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626097269043 File : 067_43.000 Time : 08-MAR-2006 22:57
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185381 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626097269061 File : 067_61.000 Time : 09-MAR-2006 03:52
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185381 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626097269068 File : 067_68.000 Time : 09-MAR-2006 05:47
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

SEQUENCE SUMMARY FOR 185381 IC Water
Curtis & Tompkins Laboratories

Sequence: 606046871 Instrument: IC01 Ion Chromatograph Begun: 01-FEB-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	032_1.00	IB				01-FEB-2006 13:11	1.0			25				
002	032_2.00	ICAL	L1			01-FEB-2006 13:28	1.0						1	
003	032_3.00	ICAL	L2			01-FEB-2006 13:46	1.0						1	
004	032_4.00	ICAL	L3			01-FEB-2006 14:03	1.0						1	
005	032_5.00	ICAL	L4			01-FEB-2006 14:21	1.0						1	
006	032_6.00	ICAL	L5			01-FEB-2006 14:38	1.0						1	
007	032_7.00	ICV				01-FEB-2006 14:56	1.0	1		25			2	
008	032_8.00	ICB/MB	QC326493	110078	Water	01-FEB-2006 15:13	1.0	1		25				
009	032_9.00	BS	QC326494	110078	Water	01-FEB-2006 15:31	1.0	1		25			1	
010	032_10.0	BSD	QC326495	110078	Water	01-FEB-2006 15:48	1.0	1		25			1	
011	032_11.0	SAMPLE	184665-001	110078	Water	01-FEB-2006 16:19	1.0	1		25				1:CL=32.4397
012	032_12.0	SAMPLE	184665-005	110078	Water	01-FEB-2006 16:37	1.0	1		25				1:CL=32.5432
013	032_13.0	MSS	184665-006	110078	Water	01-FEB-2006 16:54	1.0	2		25				1:CL=34.9403
014	032_14.0	SAMPLE	184665-007	110078	Water	01-FEB-2006 17:12	1.0			25				
015	032_15.0	SAMPLE	184646-001	110078	Water	01-FEB-2006 17:29	100.0			25				510
016	032_16.0	SAMPLE	184646-002	110078	Water	01-FEB-2006 17:47	100.0			25				
017	032_17.0	SAMPLE	184646-003	110078	Water	01-FEB-2006 18:04	100.0			25				
018	032_18.0	CCV	M	110078		01-FEB-2006 18:22	1.0			25			1	
019	032_19.0	CCB		110078		01-FEB-2006 18:39	1.0			25				
020	032_20.0	SAMPLE	184646-004	110078	Water	01-FEB-2006 18:57	100.0			25				
021	032_21.0	SAMPLE	184606-003	110078	Water	01-FEB-2006 19:14	1.0			25				1:CL=67.2883
022	032_22.0	SAMPLE	184606-006	110078	Water	01-FEB-2006 19:32	1.0	1		25				3:SO4=258.533
023	032_23.0	X	BLK	110078		01-FEB-2006 19:49	1.0							
024	032_24.0	SAMPLE	184665-008	110078	Water	01-FEB-2006 20:07	1.0			25				
025	032_25.0	SAMPLE	184665-009	110078	Water	01-FEB-2006 20:24	1.0	1		25				1:CL=23.2597
026	032_26.0	SAMPLE	184665-001	110078	Water	01-FEB-2006 20:42	2.0			25				
027	032_27.0	SAMPLE	184665-005	110078	Water	01-FEB-2006 20:59	2.0			25				
028	032_28.0	MSS	184665-006	110078	Water	01-FEB-2006 21:17	2.0	1		25				
029	032_29.0	MS	QC326496	110078	Water	01-FEB-2006 21:34	5.0	1		25			1	
030	032_30.0	MSD	QC326497	110078	Water	01-FEB-2006 21:52	5.0	1		25			1	
031	032_31.0	CCV	H	110078		01-FEB-2006 22:10	1.0	1		25			1	

Stds used: 1=S1888 2=S1085

SEQUENCE SUMMARY FOR 185381 IC Water
Curtis & Tompkins Laboratories

Sequence: 606046871 Instrument: IC01 Ion Chromatograph Begun: 01-FEB-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
032	032_32.0	CCB		110078		01-FEB-2006 22:27	1.0	1		25				
033	032_33.0	X	CCV	110078		01-FEB-2006 22:45	1.0						1	
034	032_34.0	X	CCB	110078		01-FEB-2006 23:02	1.0							
035	032_35.0	SAMPLE	184665-009	110078	Water	01-FEB-2006 23:20	2.0			25				
036	032_36.0	SAMPLE	184669-006	110078	Water	01-FEB-2006 23:37	100.0			25				
037	032_37.0	SAMPLE	184669-006	110078	Water	01-FEB-2006 23:55	10.0	1		25			1:NO3N=9.88433	
038	032_38.0	X	BLK	110078		02-FEB-2006 00:12	1.0							
039	032_39.0	SAMPLE	184606-006	110078	Water	02-FEB-2006 00:30	2.0			25			2:SO4=142.830	
040	032_40.0	X	BLK	110078		02-FEB-2006 00:47	1.0							
041	032_41.0	SAMPLE	184646-001	110078	Water	02-FEB-2006 01:05	1.0			25				
042	032_42.0	X	BLK	110078		02-FEB-2006 01:22	1.0							
043	032_43.0	SAMPLE	184646-002	110078	Water	02-FEB-2006 01:40	1.0			25				
044	032_44.0	X	BLK	110078		02-FEB-2006 01:57	1.0							
045	032_45.0	SAMPLE	184646-003	110078	Water	02-FEB-2006 02:15	1.0			25				
046	032_46.0	X	BLK	110078		02-FEB-2006 02:32	1.0							
047	032_47.0	SAMPLE	184646-004	110078	Water	02-FEB-2006 02:50	1.0			25				511
048	032_48.0	X	BLK	110078		02-FEB-2006 03:07	1.0							
049	032_49.0	X	BLK	110078		02-FEB-2006 03:25	1.0							
050	032_50.0	X	CCV	110078		02-FEB-2006 03:42	1.0						1	
051	032_51.0	X	CCB	110078		02-FEB-2006 04:00	1.0							
052	032_52.0	CCV	L	110078		02-FEB-2006 04:17	1.0	2		25			1	
053	032_53.0	CCB		110078		02-FEB-2006 04:35	1.0			25				
054	032_54.0	X	SHUTDOWN	110078		02-FEB-2006 04:52	1.0							

Stds used: 1=S1888 2=S1085

SEQUENCE SUMMARY FOR 185381 IC Water
Curtis & Tompkins Laboratories

Sequence: 606097273 Instrument: IC01 Ion Chromatograph Begun: 08-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
007	067_7.00	X	PRIMER	111118		08-MAR-2006 12:20	1.0							
008	067_8.00	X	BLK	111118		08-MAR-2006 12:38	1.0							
009	067_9.00	CCV	M	111118		08-MAR-2006 12:55	1.0	1		25			1	
010	067_10.0	CCB/MB	QC330686	111118	Water	08-MAR-2006 13:13	1.0			25				
011	067_11.0	BS	QC330687	111118	Water	08-MAR-2006 13:30	1.0			25			1	
012	067_12.0	BSD	QC330688	111118	Water	08-MAR-2006 13:48	1.0			25			1	
013	067_13.0	SAMPLE	185373-006	111118	Water	08-MAR-2006 14:22	100.0			25				
014	067_14.0	SAMPLE	185373-006	111118	Water	08-MAR-2006 14:39	10.0	1		25				1:NO3N=8.80528
015	067_15.0	X	BLK	111118		08-MAR-2006 14:57	1.0							
016	067_16.0	SAMPLE	185381-019	111118	Water	08-MAR-2006 15:54	1.0	1		25				1:CL=70.1707
017	067_17.0	SAMPLE	185381-020	111118	Water	08-MAR-2006 16:12	1.0	1		25				1:CL=63.6428
018	067_18.0	SAMPLE	185381-011	111118	Water	08-MAR-2006 16:29	25.0			25				
019	067_19.0	SAMPLE	185381-012	111118	Water	08-MAR-2006 16:47	25.0			25				
020	067_20.0	SAMPLE	185381-013	111118	Water	08-MAR-2006 17:04	25.0			25				
021	067_21.0	CCV	L	111118		08-MAR-2006 17:22	1.0			25			1	512
022	067_22.0	CCB		111118		08-MAR-2006 17:39	1.0			25				
023	067_23.0	MSS	185381-018	111118	Water	08-MAR-2006 17:57	25.0	1		25				
024	067_24.0	MS	QC330689	111118	Water	08-MAR-2006 18:14	25.0			25			1	
025	067_25.0	MSD	QC330690	111118	Water	08-MAR-2006 18:32	25.0			25			1	
026	067_26.0	SAMPLE	185381-014	111118	Water	08-MAR-2006 18:49	25.0			25				
027	067_27.0	SAMPLE	185381-015	111118	Water	08-MAR-2006 19:07	10.0			25				
028	067_28.0	SAMPLE	185381-016	111118	Water	08-MAR-2006 19:24	10.0			25				
029	067_29.0	SAMPLE	185381-017	111118	Water	08-MAR-2006 19:42	25.0			25				
030	067_30.0	SAMPLE	185381-019	111118	Water	08-MAR-2006 20:00	10.0			25				
031	067_31.0	SAMPLE	185381-020	111118	Water	08-MAR-2006 20:17	10.0			25				
032	067_32.0	SAMPLE	185381-015	111118	Water	08-MAR-2006 20:35	1.0	1		25				1:CL=33.0004
033	067_33.0	X	BLK	111118		08-MAR-2006 20:52	1.0							
034	067_34.0	CCV	H	111118		08-MAR-2006 21:10	1.0	1		25			1	
035	067_35.0	CCB		111118		08-MAR-2006 21:27	1.0	1		25				
036	067_36.0	X	CCV	111118		08-MAR-2006 21:45	1.0						1	
037	067_37.0	X	CCB	111118		08-MAR-2006 22:02	1.0							

Stds used: 1=S1888

SEQUENCE SUMMARY FOR 185381 IC Water
Curtis & Tompkins Laboratories

Sequence: 606097273 Instrument: IC01 Ion Chromatograph Begun: 08-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
038	067_38.0	SAMPLE	185381-011	111118	Water	08-MAR-2006 22:20	1.0	3	25			3:CL=119.061	
039	067_39.0	X	BLK	111118		08-MAR-2006 22:37	1.0						
040	067_40.0	SAMPLE	185381-012	111118	Water	08-MAR-2006 22:55	1.0	3	25			3:CL=117.996	
041	067_41.0	X	BLK	111118		08-MAR-2006 23:12	1.0						
042	067_42.0	SAMPLE	185381-013	111118	Water	08-MAR-2006 23:30	1.0	1	25			1:SO4=141.135	
043	067_43.0	X	BLK	111118		08-MAR-2006 23:47	1.0						
044	067_44.0	SAMPLE	185381-014	111118	Water	09-MAR-2006 00:05	1.0	1	25			1:SO4=138.647	
045	067_45.0	X	BLK	111118		09-MAR-2006 00:22	1.0						
046	067_46.0	SAMPLE	185381-016	111118	Water	09-MAR-2006 00:40	1.0	2	25			2:SO4=72.0618	
047	067_47.0	X	BLK	111118		09-MAR-2006 00:57	1.0						
048	067_48.0	SAMPLE	185381-017	111118	Water	09-MAR-2006 01:15	1.0	2	25			2:SO4=80.1962	
049	067_49.0	X	BLK	111118		09-MAR-2006 01:32	1.0						
050	067_50.0	MSS	185381-018	111118	Water	09-MAR-2006 01:50	1.0	3	25			2:SO4=80.1341	
051	067_51.0	X	BLK	111118		09-MAR-2006 02:07	1.0						
052	067_52.0	CCV	M	111118		09-MAR-2006 02:25	1.0	1	25			1	
053	067_53.0	CCB		111118		09-MAR-2006 02:42	1.0		25				
054	067_54.0	X	CCV	111118		09-MAR-2006 03:00	1.0					1	
055	067_55.0	X	CCB	111118		09-MAR-2006 03:17	1.0						
056	067_56.0	X	SHUTDOWN	111118		09-MAR-2006 03:35	1.0						

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Stds used: 1=S1888

SEQUENCE SUMMARY FOR 185381 IC Water
Curtis & Tompkins Laboratories

Sequence: 626087283 Instrument: IC03 Ion Chromatograph Begun: 01-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	060_1.00	IB				01-MAR-2006 14:43	1.0		25				
002	060_2.00	ICAL	L1			01-MAR-2006 15:02	1.0					1	
003	060_3.00	ICAL	L2			01-MAR-2006 15:20	1.0					1	
004	060_4.00	ICAL	L3			01-MAR-2006 15:39	1.0					1	
005	060_5.00	ICAL	L4			01-MAR-2006 15:57	1.0					1	
006	060_6.00	ICAL	L5			01-MAR-2006 16:15	1.0					1	
007	060_7.00	ICV				01-MAR-2006 16:34	1.0		25			2	
008	060_8.00	ICB				01-MAR-2006 16:52	1.0		25				

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Stds used: 1=S1888 2=S1085

SEQUENCE SUMMARY FOR 185381 IC Water
Curtis & Tompkins Laboratories

Sequence: 626097269 Instrument: IC03 Ion Chromatograph Begun: 08-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
007	067_7.00	CCV	L	111117		08-MAR-2006 12:20	1.0			25			1	
008	067_8.00	CCB/MB	QC330681	111117	Water	08-MAR-2006 12:36	1.0			25				
009	067_9.00	BS	QC330682	111117	Water	08-MAR-2006 12:53	1.0			25			1	
010	067_10.0	BSD	QC330683	111117	Water	08-MAR-2006 13:09	1.0			25			1	
011	067_11.0	SAMPLE	185370-001	111117	Water	08-MAR-2006 13:32	1000			25				
012	067_12.0	SAMPLE	185370-002	111117	Water	08-MAR-2006 13:48	500.0			25				
013	067_13.0	SAMPLE	185370-001	111117	Water	08-MAR-2006 14:04	20.0			25			2:CL=102.088	
014	067_14.0	X	BLK	111117		08-MAR-2006 14:21	1.0							
015	067_15.0	SAMPLE	185370-002	111117	Water	08-MAR-2006 14:37	10.0			25			2:CL=97.5310	
016	067_16.0	X	BLK	111117		08-MAR-2006 14:54	1.0							
017	067_17.0	SAMPLE	185381-001	111117	Water	08-MAR-2006 15:49	1.0			25				
018	067_18.0	SAMPLE	185381-002	111117	Water	08-MAR-2006 16:05	1.0			25				
019	067_19.0	MSS	185381-008	111117	Water	08-MAR-2006 16:22	100.0			25				
020	067_20.0	CCV	M	111117		08-MAR-2006 16:38	1.0			25			1	
021	067_21.0	CCB		111117		08-MAR-2006 16:55	1.0			25				515
022	067_22.0	SAMPLE	185381-005	111117	Water	08-MAR-2006 17:12	1.0	1		25			1:CL=62.5898	
023	067_23.0	X	BLK	111117		08-MAR-2006 17:28	1.0							
024	067_24.0	SAMPLE	185381-010	111117	Water	08-MAR-2006 17:45	1.0	1		25			1:SO4=158.097	
025	067_25.0	X	BLK	111117		08-MAR-2006 18:01	1.0							
026	067_26.0	SAMPLE	185394-004	111117	Water	08-MAR-2006 18:18	1.0			25			2:CL=146.431	
027	067_27.0	X	BLK	111117		08-MAR-2006 18:34	1.0							
028	067_28.0	SAMPLE	185394-007	111117	Water	08-MAR-2006 18:50	1.0			25			2:CL=154.725	
029	067_29.0	X	BLK	111117		08-MAR-2006 19:07	1.0							
030	067_30.0	SAMPLE	185381-003	111117	Water	08-MAR-2006 19:23	1.0	2		25			2:CL=129.732	
031	067_31.0	X	BLK	111117		08-MAR-2006 19:40	1.0							
032	067_32.0	SAMPLE	185381-004	111117	Water	08-MAR-2006 19:56	1.0	2		25			2:SO4=54.8922	
033	067_33.0	X	BLK	111117		08-MAR-2006 20:12	1.0							
034	067_34.0	SAMPLE	185381-006	111117	Water	08-MAR-2006 20:29	1.0	1		25			1:CL=62.7457	
035	067_35.0	X	BLK	111117		08-MAR-2006 20:45	1.0							
036	067_36.0	SAMPLE	185381-007	111117	Water	08-MAR-2006 21:02	1.0	2		25			2:SO4=77.9167	
037	067_37.0	X	BLK	111117		08-MAR-2006 21:18	1.0							

Stds used: 1=S1888

SEQUENCE SUMMARY FOR 185381 IC Water
Curtis & Tompkins Laboratories

Sequence: 626097269 Instrument: IC03 Ion Chromatograph Begun: 08-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
038	067_38.0	MSS	185381-008	111117	Water	08-MAR-2006 21:34	1.0	1		25			1:SO4=328.271	
039	067_39.0	X	BLK	111117		08-MAR-2006 21:51	1.0							
040	067_40.0	MSS	185381-008	111117	Water	08-MAR-2006 22:07	2.0	1		25			1:SO4=190.889	
041	067_41.0	X	BLK	111117		08-MAR-2006 22:24	1.0							
042	067_42.0	CCV	H	111117		08-MAR-2006 22:40	1.0			25			1	
043	067_43.0	CCB		111117		08-MAR-2006 22:57	1.0			25				
044	067_44.0	X	CCV	111117		08-MAR-2006 23:13	1.0						1	
045	067_45.0	X	CCB	111117		08-MAR-2006 23:29	1.0							
046	067_46.0	MS	QC330684	111117	Water	08-MAR-2006 23:46	100.0			25			1	
047	067_47.0	MSD	QC330685	111117	Water	09-MAR-2006 00:02	100.0			25			1	
048	067_48.0	SAMPLE	185381-009	111117	Water	09-MAR-2006 00:19	1.0	1		25			1:SO4=328.154	
049	067_49.0	X	BLK	111117		09-MAR-2006 00:35	1.0							
050	067_50.0	SAMPLE	185381-009	111117	Water	09-MAR-2006 00:51	2.0	1		25			1:SO4=190.679	
051	067_51.0	X	BLK	111117		09-MAR-2006 01:08	1.0							
052	067_52.0	SAMPLE	185381-003	111117	Water	09-MAR-2006 01:24	25.0			25				516
053	067_53.0	SAMPLE	185381-004	111117	Water	09-MAR-2006 01:41	5.0			25				
054	067_54.0	SAMPLE	185381-005	111117	Water	09-MAR-2006 01:57	5.0			25				
055	067_55.0	X	BLK	111117		09-MAR-2006 02:13	1.0							
056	067_56.0	SAMPLE	185381-006	111117	Water	09-MAR-2006 02:30	5.0			25				
057	067_57.0	X	BLK	111117		09-MAR-2006 02:46	1.0							
058	067_58.0	SAMPLE	185381-007	111117	Water	09-MAR-2006 03:03	10.0			25				
059	067_59.0	SAMPLE	185381-009	111117	Water	09-MAR-2006 03:19	100.0			25				
060	067_60.0	CCV	L	111117		09-MAR-2006 03:35	1.0			25			1	
061	067_61.0	CCB		111117		09-MAR-2006 03:52	1.0			25				
062	067_62.0	X	CCV	111117		09-MAR-2006 04:08	1.0						1	
063	067_63.0	X	CCB	111117		09-MAR-2006 04:25	1.0							
064	067_64.0	SAMPLE	185381-010	111117	Water	09-MAR-2006 04:41	50.0			25				
065	067_65.0	SAMPLE	185381-010	111117	Water	09-MAR-2006 04:58	2.0	1		25			1:SO4=84.2788	
066	067_66.0	X	BLK	111117		09-MAR-2006 05:14	1.0							
067	067_67.0	CCV	M	111117		09-MAR-2006 05:30	1.0			25			1	
068	067_68.0	CCB		111117		09-MAR-2006 05:47	1.0			25				

Stds used: 1=S1888

SEQUENCE SUMMARY FOR 185381 IC Water
Curtis & Tompkins Laboratories

Sequence: 626097269 Instrument: IC03 Ion Chromatograph Begun: 08-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC SPK uL	VL	pH	Stds Used	>LR
069	067_69.0	X	CCV	111117		09-MAR-2006 06:03	1.0				1	
070	067_70.0	X	CCB	111117		09-MAR-2006 06:20	1.0					
071	067_71.0	X	SHUTDOWN	111117		09-MAR-2006 06:36	1.0					

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Stds used: 1=S1888

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185381 IC Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	CL	NO2N	NO3N	SO4
185381-001	IC03	03/08/06 15:49	1.0	+	+	+	+	+
185381-002	IC03	03/08/06 16:05	1.0	+	+	+	+	+
185381-003	IC03	03/08/06 19:23	1.0	+		+	+	
185381-003	IC03	03/09/06 01:24	25.0		+			+
185381-004	IC03	03/08/06 19:56	1.0	+		+	+	
185381-004	IC03	03/09/06 01:41	5.0		+			+
185381-005	IC03	03/08/06 17:12	1.0	+		+	+	+
185381-005	IC03	03/09/06 01:57	5.0		+			
185381-006	IC03	03/08/06 20:29	1.0	+		+	+	+
185381-006	IC03	03/09/06 02:30	5.0		+			
185381-007	IC03	03/08/06 21:02	1.0	+		+	+	
185381-007	IC03	03/09/06 03:03	10.0		+			+
185381-008	IC03	03/08/06 16:22	100.0		+			+
185381-008	IC03	03/08/06 21:34	1.0	+			+	
185381-008	IC03	03/08/06 22:07	2.0			+		
185381-009	IC03	03/09/06 00:19	1.0	+			+	
185381-009	IC03	03/09/06 00:51	2.0			+		
185381-009	IC03	03/09/06 03:19	100.0		+			+
185381-010	IC03	03/08/06 17:45	1.0	+		+	+	
185381-010	IC03	03/09/06 04:41	50.0		+			+
185381-010	IC03	03/09/06 04:58	2.0					
185381-011	IC01	03/08/06 16:29	25.0		+		+	+
185381-011	IC01	03/08/06 22:20	1.0	+		+		
185381-012	IC01	03/08/06 16:47	25.0		+		+	+
185381-012	IC01	03/08/06 22:55	1.0	+		+		
185381-013	IC01	03/08/06 17:04	25.0		+			+
185381-013	IC01	03/08/06 23:30	1.0	+		+	+	
185381-014	IC01	03/08/06 18:49	25.0		+			+
185381-014	IC01	03/09/06 00:05	1.0	+		+	+	
185381-015	IC01	03/08/06 19:07	10.0		+			
185381-015	IC01	03/08/06 20:35	1.0	+		+	+	+

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185381 IC Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	CL	NO2N	NO3N	SO4	
185381-016	IC01	03/08/06 19:24	10.0		+			+	
185381-016	IC01	03/09/06 00:40	1.0	+		+	+		
185381-017	IC01	03/08/06 19:42	25.0		+			+	
185381-017	IC01	03/09/06 01:15	1.0	+		+	+		
185381-018	IC01	03/08/06 17:57	25.0		+			+	
185381-018	IC01	03/09/06 01:50	1.0	+		+	+		
185381-019	IC01	03/08/06 15:54	1.0	+		+	+	+	
185381-019	IC01	03/08/06 20:00	10.0		+				
185381-020	IC01	03/08/06 16:12	1.0	+		+	+	+	
185381-020	IC01	03/08/06 20:17	10.0		+				
QC330681	IC03	03/08/06 12:36	1.0	+	+	+	+	+	
QC330682	IC03	03/08/06 12:53	1.0	+	+	+	+	+	
QC330683	IC03	03/08/06 13:09	1.0	+	+	+	+	+	
QC330684	IC03	03/08/06 23:46	100.0	+	+	+	+	+	
QC330685	IC03	03/09/06 00:02	100.0	+	+	+	+	+	
QC330686	IC01	03/08/06 13:13	1.0	+	+	+	+	+	
QC330687	IC01	03/08/06 13:30	1.0	+	+	+	+	+	
QC330688	IC01	03/08/06 13:48	1.0	+	+	+	+	+	
QC330689	IC01	03/08/06 18:14	25.0	+	+	+	+	+	
QC330690	IC01	03/08/06 18:32	25.0	+	+	+	+	+	

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111117
Date Started: 08-MAR-2006
Batched by : Micah Smith

Analysis : N/A
Bgroup : IC
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185370-001			Alta Environmental	Water	NITRATE, NITRITE	15-MAR-2006
185370-002			Alta Environmental	Water	NITRATE, NITRITE	15-MAR-2006
185381-001			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	20-MAR-2006
185381-002			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	20-MAR-2006
185381-003			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	20-MAR-2006
185381-004			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	20-MAR-2006
185381-005			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	20-MAR-2006
185381-006			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	20-MAR-2006
185381-007			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	20-MAR-2006
185381-008			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	20-MAR-2006
185381-009			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	20-MAR-2006
185381-010			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	20-MAR-2006
185394-004			Union Sanitary Dis	Water	NITRATE, NITRITE	20-MAR-2006
185394-007			Union Sanitary Dis	Water	NITRATE, NITRITE	20-MAR-2006
QC330681	BLANK			Water		
QC330682	BS			Water		
QC330683	BSD			Water		
QC330684	MS	of 185381-008		Water		
QC330685	MSD	of 185381-008		Water		

Curtis & Tompkins, Ltd. **Water Prep Log** Ion Chromatography

Analysis: ☒ Anions EPA 300 / EPA 9056
☐ Perchlorate (ClO_4) EPA 314
☐ Cr6+ EPA 7199

Batch#: 111117
Date Started: 3/8/06
Prep Chemist: MRS

BK 2267
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	Sample #	Conductivity	Estimated Dilution Factor	Filters Used	Comments
1	185370-001 C	24.8	1000X / 20X	S	
2	↓ -002 C	15.5	500X / 10X	S	
3	185381-001 L	0.08	1X	↓	
4	-002 L	0.08	1X		
5	-003 I	1.33	1X / 25X		
6	-004 F	0.63	1X / 5X		
7	-005 I	1.51	1X / 5X		
8	-006 I	1.53	1X / 5X		
9	-007 F	0.85	1X / 10X		
10	-008 B	3.75	100X / 2X / 1X		MSS
11	-009 B	3.84	100X / 2X / 1X		
12	↓ -010 B	2.44	50X / 2X / 1X	↓	
13	185394-004 C	1.49	1X	S	
14	↓ -007 C	1.56	1X	S	
15	Blank QC 330681	N/A	1X	N/A	
16	BS QC 330682	↓	↓	↓	
17	BSD QC 330683				
18	MS QC 330684 B		100X	S	
19	MSD QC 330685 B		100X	S	
20					

		Mfg & Lot # / Time / Program	Initials / Date
	Eluent Reagent ID	100X CP 12/6/05	MRS 3/8/06
BS/BSD Spiked with	0.2 mL of :	51888	
MS/MSD Spiked with	0.1 mL of :	51888	
Filters Used:	Ag: OnGuard II Ag	N/A	
	Na: OnGuard II Na	↓	
	P: OnGuard II P		
	RP: OnGuard II RP		
	S: 0.20um/0.45um	Acrodisc lot # A1053629	

MRS 3/8/06
Extraction Chemist / Date

Continued from page ___
Continued on page ___

3/9/06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111118
Date Started: 08-MAR-2006
Batched by : Micah Smith

Analysis : N/A
Bgroup : IC
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185373-006			Acme Fill Corp.	Water	NITRATE, NITRITE	20-MAR-2006
185381-011			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	20-MAR-2006
185381-012			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	20-MAR-2006
185381-013			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	20-MAR-2006
185381-014			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	20-MAR-2006
185381-015			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	20-MAR-2006
185381-016			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	20-MAR-2006
185381-017			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	20-MAR-2006
185381-018			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	20-MAR-2006
185381-019			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	20-MAR-2006
185381-020			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	20-MAR-2006
QC330686	BLANK			Water		
QC330687	BS			Water		
QC330688	BSD			Water		
QC330689	MS	of 185381-018		Water		
QC330690	MSD	of 185381-018		Water		

Curtis & Tompkins, Ltd. **Water Prep Log** Ion Chromatography

Analysis: ☑ Anions EPA 300 / EPA 9056
☐ Perchlorate (ClO_4) EPA 314
☐ Cr6+ EPA 7199

Batch#: 111118
Date Started: 3/8/06
Prep Chemist: MLS

BK 2267
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	Sample #	Conductivity	Estimated Dilution Factor	Filters Used	Comments
1	185373-006 A	N/A	10x/100x	P, Ag, Na, S	comp. 1ml of each bottle -002A, -003A, -004A, -005A
2	185381-011 H	1.68	1x / 25x	S	
3	-012	1.65	1x / 25x		
4	-013	1.74	1x / 25x		
5	-014	1.75	1x / 25x		
6	-015 I	0.86	1x / 10x		
7	-016	0.88	1x / 10x		
8	-017	0.99	1x / 25x		
9	-018	0.98	1x / 25x		MSS
10	-019 L	0.82	1x / 10x		
11	-020 L	0.80	1x / 10x		
12	Blank QC330686	N/A	1x	P+S A10539346	
13	BS QC330687			P+S A10539346	
14	BSD QC330688			N/A	
15	MS QC330689 I		25x	S	
16	MSD QC330690 I		25x	S	
17					
18					
19					
20					

		Mfg & Lot # / Time / Program	Initials / Date
Eluent Reagent ID		100x CP 12/6/05	MLS 3/8/06
BS/BSD Spiked with	0.2 mL of :	S1888	
MS/MSD Spiked with	0.1 mL of :	S1888	
Filters Used:	Ag: OnGuard II Ag	050426-1-Ag	
	Na: OnGuard II Na	050413-1-Na	
	P: OnGuard II P	031202-1-P	
	RP: OnGuard II RP	N/A	
	S: ~~0.20um~~/0.45um	Accodisc lot #A10536299	

MLS 3/8/06
Extraction Chemist / Date

Continued from page ____
Continued on page ____

CP 3/9/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 300.0 Water
As of 03/31/06

Analyte	Units	IC03	IC01
Fluoride	mg/L	0.023	0.018
Chloride	mg/L	0.032	0.026
Nitrogen, Nitrite	mg/L	0.012	0.0067
Bromide	mg/L	0.028	0.058
Nitrogen, Nitrate	mg/L	0.0088	0.018
Orthophosphate (as P)	mg/L	0.037	0.045
Sulfate	mg/L	0.079	0.046

Curtis & Tompkins, Ltd.

Sulfide

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 376.2
Analyte:	Sulfide	Batch#:	111277
Matrix:	Water	Sampled:	03/07/06
Units:	mg/L	Received:	03/08/06
Diln Fac:	1.000	Analyzed:	03/14/06

Field ID	Type	Lab ID	Result	RL
1047MW101	SAMPLE	185381-001	ND	0.04
DUP0307062A	SAMPLE	185381-002	ND	0.04
1065PZ1B	SAMPLE	185381-003	0.06	0.04
1065PZ2B	SAMPLE	185381-004	ND	0.04
1065PZ5AR	SAMPLE	185381-005	ND	0.04
DUP0307062B	SAMPLE	185381-006	ND	0.04
1065MW11B	SAMPLE	185381-007	ND	0.04
610GW101	SAMPLE	185381-015	ND	0.04
610GW102	SAMPLE	185381-016	0.14	0.04
610GW103	SAMPLE	185381-017	ND	0.04
DUP0307061A	SAMPLE	185381-018	ND	0.04
600GW108	SAMPLE	185381-019	ND	0.04
DUP0307061B	SAMPLE	185381-020	ND	0.04
	BLANK	QC331380	ND	0.04

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Sulfide

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 376.2
Analyte:	Sulfide	Diln Fac:	1.000
Field ID:	600GW101	Batch#:	111277
MSS Lab ID:	185408-002	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	mg/L	Analyzed:	03/14/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC331381	0.1277	0.2714	0.4149	106	75-125		
MSD	QC331382		0.2714	0.4229	109	75-125	2	20
LCS	QC331383		0.4070	0.4284	105	75-125		

RPD= Relative Percent Difference

Analysis:	**SULFIDE**	Matrix:	Water
Method:	**EPA 376.2**	Batch:	**111277**
Instrument:	HP UV-VIS Spectrometer	Prep Date:	**3/14/2006**
Wavelength:	626 nm	Analysis Date:	**3/14/2006**
SOP#:	sulfide_376_rv 4.doc	Analyst:	DM

INITIAL CALIBRATION DATA

Calibration Date: 11/15/05

Conc (mg/L)	Absorb	RF
0.0000	0.0001	
0.0233	0.0090	0.3863
0.0466	0.0156	0.3348
0.1862	0.0555	0.2981
0.3725	0.1650	0.4430
0.7450	0.3293	0.4420
1.3040	0.5687	0.4361
1.6760	0.7467	0.4455

Correlation Coefficient (r):	0.9994
Avg Rf:	0.3980
%RSD:	15.1

Note: Average Rf used to calculate sample results.

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CONTINUING CALIBRATION DATA

	Absorb	Conc (mg/L)	True (mg/L)	Recovery	CV Limits
ICV	0.1705	0.4284	0.4070	105%	90 - 110%
ICB	0.0002	0.0005	0.0000		
CCV	0.1714	0.4307	0.4070	106%	90 - 110%
CCB	0.0002	0.0005	0.0000		
CCV	0.1720	0.4322	0.4070	106%	90 - 110%
CCB	0.0011	0.0028	0.0000		
CCV	0.1707	0.4289	0.4070	105%	90 - 110%
CCB	0.0017	0.0043	0.0000		

Analysis: **SULFIDE**
Method: **EPA 376.2**
Instrument: HP UV-VIS Spectrometer
Wavelength: 626 nm
Matrix: Water

Batch: **111277**
Prep Date: **3/14/2006**
Analysis Date: **3/14/2006**
Analyst: DM

SAMPLE & BATCH QC DATA

Sample ID	Sample Vol (mL)	D.F.	Sample Absorb	Color Blk Absorb	**Report mg/L**	Reporting Limit (mg/L)	Vol Spike Added (mL)	Std Conc. (mg/L)	Spiked @ (mg/L)	**% Rec**	**% RPD**
MB	7.5000	1.0000	0.0002		**ND**	0.040					
LCS	7.5000	1.0000	0.1705		**0.42844**	0.040	1.0000	40.7040	0.4070	**105**	
185408-2	7.5000	1.0000	0.0508		**0.12765**	0.040					
185408-2ms	7.5000	1.0000	0.1651		**0.41487**	0.040	0.0500	40.7040	0.2714	**106**	
185408-2msd	7.5000	1.0000	0.1683		**0.42291**	0.040	0.0500	40.7040	0.2714	**109**	**2**
185373-6	7.5000	1.0000	0.0027		**ND**	0.040					
185381-1	7.5000	1.0000	-0.0026		**ND**	0.040					
185381-2	7.5000	1.0000	-0.0006		**ND**	0.040					
185381-3	7.5000	1.0000	0.0240		**0.06031**	0.040					
185381-4	7.5000	1.0000	0.0075		**ND**	0.040					
185381-5	7.5000	1.0000	0.0042		**ND**	0.040					
185381-6	7.5000	1.0000	0.0039		**ND**	0.040					
185381-7	7.5000	1.0000	0.0053		**ND**	0.040					
185381-15	7.5000	1.0000	0.0074		**ND**	0.040					
185381-16	7.5000	1.0000	0.0551		**0.13846**	0.040					
185381-17	7.5000	1.0000	0.0038		**ND**	0.040					
185381-18	7.5000	1.0000	0.0037		**ND**	0.040					
185381-19	7.5000	1.0000	-0.0012		**ND**	0.040					

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	20	42 - 121

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185381-20	7.5000	1.0000	0.0013	**ND**	0.040
185401-1	7.5000	1.0000	0.0010	**ND**	0.040
185401-3	7.5000	1.0000	0.0009	**ND**	0.040
185401-4	7.5000	1.0000	0.0035	**ND**	0.040
185401-5	7.5000	1.0000	0.0053	**ND**	0.040

Reviewed by/ Date: 3.20.06

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16 TREADWELL 185381 185408

PROJECT ACME 185373

Notebook No. BK2289

Continued From Page

Sulfate EPA ~~365~~ 3-20-06 375.2 B 111277

Sample	Vol (ml)	Final Vol (ml)	Abs	
185373-6	7.5	7.5	.0027	
				Sulfate STD
185381-1			-.0026	
-2			-.0006	~.4g 04552292 → 500 ml DI H2O
-3			.0240	
-4			.0875	1.0 ml S2
-5			.0042	10 ml I .023694N
-6			.0039	5.0 ml S2O3 .021944N
-7			.0053	
-15			.0074	.2369
-16			.0551	-.10970
-17			.0038	.12720 x 16000 = 2035.2 mg/L
-18			.0037	1.0 1:5 = 407.0407 mg/L
-19			-.0012	~~1:05 → 7.5 = 271.4 mg/L~~
-20			.0013	1:100 = .4070 mg/L
185408-1			.0010	
-2			.0508	
			~~.1651~~ 3-14-06	
-2MS	+ .05ml (40.7040 mg/L from 04552292)		.1651	
-2MSD	Same as MS		.1683	
-3			.0009	
-4			.0035	
-5			.0053	
ICB/MB			.0002	
ICV/LCS	+ 1ml 40.7040 mg/L → 100ml vol 7.5ml		.1709	TV = .4070 mg/L
CCV			.1714	
CCB			.0002	
CCV			.1720	
CCB			.0011	
CCV			.1707	
CCB			.0007	

Continued on Page

Read and Understood By

Signed

3-14-06 = 630 Analysis
3-20-06 = water

Date

Signed

3-20-06

Date

---> **Quantitation Results Report** <---

Date : 03-~~11~~ 14-2006 3/14/06
Time : 12:23:55
Operator : Not Entered
DM

e Name : Data not stored yet

ple Name : sulfide
vent Name : CAL11-15-05
: Units : mg/L
Factor : 1.00

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

PLE #	Sample Name	Wavelength	Func. Res.	Concentration
	icb/mb	Analytical	+0.0002	5.186E-04
2	icv/lcs	Analytical	+0.1705	0.38628
3	185373-6	Analytical	+0.0027	0.00615
	185381-1	Analytical	-0.0026	0.00000
	185381-2	Analytical	-0.0006	0.00000
	185381-3	Analytical	+0.0240	0.05442
	185381-4	Analytical	+0.0075	0.01708
	185381-5	Analytical	+0.0042	0.00940
	185381-6	Analytical	+0.0039	0.00882
	185381-7	Analytical	+0.0053	0.01193
	ccv	Analytical	+0.1714	0.38846
	ccb	Analytical	+0.0002	3.803E-04
	185381-15	Analytical	+0.0074	0.01677
	185381-16	Analytical	+0.0551	0.12477
	185381-17	Analytical	+0.0038	0.00864
	185381-18	Analytical	+0.0037	0.00833
	185381-19	Analytical	-0.0012	0.00000
	185381-20	Analytical	+0.0013	0.00297
	185408-1	Analytical	+0.0010	0.00232
	185408-2	Analytical	+0.0508	0.11516
	185408-2ms	Analytical	+0.1651	0.37401
	185408-2msd	Analytical	+0.1683	0.38130
	ccv	Analytical	+0.1720	0.38974
	ccb	Analytical	+0.0011	0.00256

185408-3	Analytical	+0.0009	0.00211
185408-4	Analytical	+0.0035	0.00792
185408-5	Analytical	+0.0053	0.01210
ccv	Analytical	+0.1707	0.38680
ccb	Analytical	+0.0017	0.00387

---> **Standard Calibration Report** <---

Date : 03-~~11~~ 14-2006
Time : 12:24:44 3/14/06
Operator : Not Entered
DM

Name : C:\UV\DATA\ss1105.STD

e Name : sulfide
nt Name : CAL11-15-05
Units : mg/L

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

tical Function Concentration = +2.266E+00 * Absorbance

STD #	Concentration	Absorbance	% Error
1	0.00000	0.0001	*****
2	0.37250	0.1650	-0.366 %
3	0.74500	0.3293	-0.135 %
4	1.30400	0.5687	+1.198 %
5	1.67600	0.7467	-0.933 %
6	0.02330	0.0090	+14.422 %
7	0.04660	0.0156	+31.758 %
8	0.18620	0.0555	+48.042 %

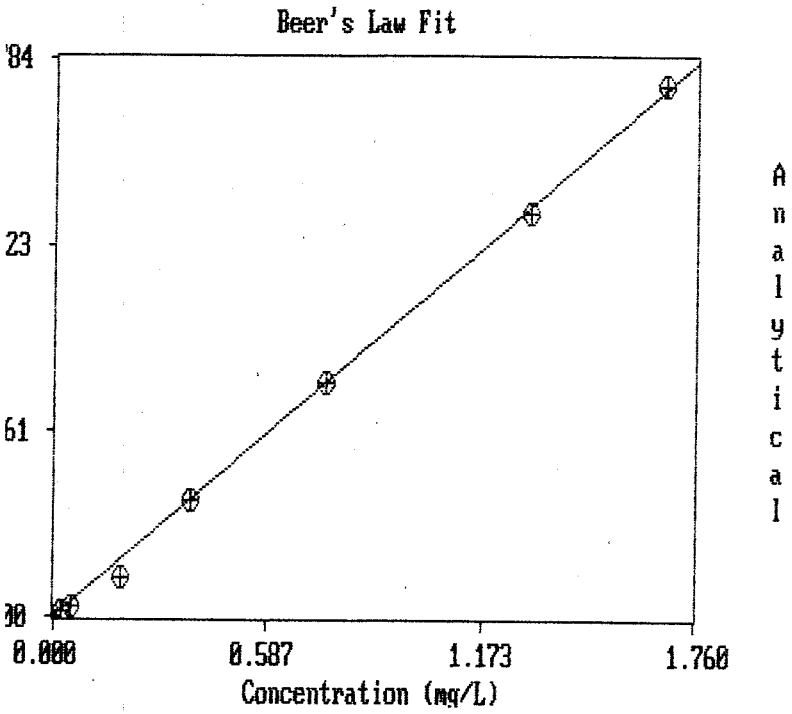
---) Standard Calibration Report (---

Date : 03-~~11~~ 14-2006
Time : 12:24:46 3-14-06 [illegible]
Operator : Not Entered
DH

me : C:\UV\DATA\ss1105.STD

Name : sulfide
Name : CAL11-15-05
its : mg/L

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds



Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111277
Date Started: 14-MAR-2006
Batched by : Dennis McCanna

Analysis : SULFIDE
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185373-006			Acme Fill Corp.	Water	SULFIDE	20-MAR-2006
185381-001			Treadwell & Rollo	Water	SULFIDE	20-MAR-2006
185381-002			Treadwell & Rollo	Water	SULFIDE	20-MAR-2006
185381-003			Treadwell & Rollo	Water	SULFIDE	20-MAR-2006
185381-004			Treadwell & Rollo	Water	SULFIDE	20-MAR-2006
185381-005			Treadwell & Rollo	Water	SULFIDE	20-MAR-2006
185381-006			Treadwell & Rollo	Water	SULFIDE	20-MAR-2006
185381-007			Treadwell & Rollo	Water	SULFIDE	20-MAR-2006
185381-015			Treadwell & Rollo	Water	SULFIDE	20-MAR-2006
185381-016			Treadwell & Rollo	Water	SULFIDE	20-MAR-2006
185381-017			Treadwell & Rollo	Water	SULFIDE	20-MAR-2006
185381-018			Treadwell & Rollo	Water	SULFIDE	20-MAR-2006
185381-019			Treadwell & Rollo	Water	SULFIDE	20-MAR-2006
185381-020			Treadwell & Rollo	Water	SULFIDE	20-MAR-2006
185408-001			Treadwell & Rollo	Water	SULFIDE	21-MAR-2006
185408-002			Treadwell & Rollo	Water	SULFIDE	21-MAR-2006
185408-003			Treadwell & Rollo	Water	SULFIDE	21-MAR-2006
185408-004			Treadwell & Rollo	Water	SULFIDE	21-MAR-2006
185408-005			Treadwell & Rollo	Water	SULFIDE	21-MAR-2006
QC331380	BLANK			Water	SULFIDE	
QC331381	MS	of 185408-002		Water	SULFIDE	
QC331382	MSD	of 185408-002		Water	SULFIDE	
QC331383	LCS			Water	SULFIDE	

Analysis:	Sulfide	Analysis Date:	4/14/2005
Method:	EPA 376.2	Analyst:	DM
Instrument:	HP UV/Vis		
Wavelength:	626 nm		

Instrument Calibrated to report sample results in concentration: mg/L

Concentration:	0.1098
Units:	mg/L
1	0.100
2	0.104
3	0.105
4	0.096
5	0.096
6	0.095
7	0.092
Average:	0.098 ug/L
Std Deviation:	0.004691
Student T:	3.143

(Student-T value for 7 replicates = 3.143, for 8 replicates = 2.998)

MDL = Student T * StdDev:	**0.0147** mg/L
Reporting Limit:	0.04 mg/L
Status:	PASS >1/3 RL

Curtis & Tompkins, Ltd.

Total Dissolved Solids (TDS)

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	mg/L	Analyzed:	03/14/06
Batch#:	111305		

Field ID	Type	Lab ID	Result	RL	Diln Fac
1047MW101	SAMPLE	185381-001	180	50	5.000
DUP0307062A	SAMPLE	185381-002	130	50	5.000
1065PZ1B	SAMPLE	185381-003	800	50	5.000
1065PZ2B	SAMPLE	185381-004	350	50	5.000
1065PZ5AR	SAMPLE	185381-005	820	50	5.000
DUP0307062B	SAMPLE	185381-006	950	50	5.000
1065MW11B	SAMPLE	185381-007	860	50	5.000
LF4GW103	SAMPLE	185381-008	2,890	50	5.000
DUP0307063A	SAMPLE	185381-009	2,600	50	5.000
LF4GW104	SAMPLE	185381-010	1,800	50	5.000
LF5GW104	SAMPLE	185381-011	970	50	5.000
DUP0307063B	SAMPLE	185381-012	860	50	5.000
1349MW102	SAMPLE	185381-013	1,070	50	5.000
DUP0307063C	SAMPLE	185381-014	1,000	50	5.000
610GW101	SAMPLE	185381-015	590	50	5.000
610GW102	SAMPLE	185381-016	570	50	5.000
610GW103	SAMPLE	185381-017	720	50	5.000
DUP0307061A	SAMPLE	185381-018	660	50	5.000
600GW108	SAMPLE	185381-019	530	50	5.000
DUP0307061B	SAMPLE	185381-020	480	50	5.000
	BLANK	QC331498	ND	10	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Dissolved Solids (TDS)

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Batch#:	111305
Field ID:	1047MW101	Sampled:	03/07/06
MSS Lab ID:	185381-001	Received:	03/08/06
Matrix:	Water	Analyzed:	03/14/06
Units:	mg/L		

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim	Diln Fac
BS	QC331499		100.0	116.0		116	79-121			1.000
BSD	QC331500		100.0	110.0		110	79-121	5	20	1.000
SDUP	QC331501	180.0		160.0	50.00			12	20	5.000

RL= Reporting Limit
RPD= Relative Percent Difference

Analysis: **Total Dissolved Solids** Analysis Date: **14-Mar-06**

Method: EPA 160.1 / SMWW 2540c Batch #: **111305**

Matrix: Water Analyst: RS

Units: mg/L

BATCH QC DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	Report (mg/L)	Reporting Limit (mg/L)	Spike Std Conc (mg/L)	Spike Vol.Used (mL)	Spiking Level (mg/L)	Recovery,%	RPD,%
MB	50	1	49.1748	49.1740	-0.0008	ND	10					
BS	50	1	47.2946	47.3004	0.0058	116.0	10	1,000	5	100	**116**	
BSD	50	1	49.1327	49.1382	0.0055	110.0	10	1,000	5	100	**110**	**5.31**
185381-001	10	5	44.2186	44.2204	0.0018	180.0	50					
SDUP	10	5	42.8858	42.8874	0.0016	160.0	50					**11.76**

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	79 - 121
MS/ MSD	20	69 - 131

SAMPLE DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)
185381-2	10	5	50.6659	50.6672	0.0013	130.0	50
185381-3	10	5	49.4929	49.5009	0.0080	800.0	50
185381-4	10	5	50.1137	50.1172	0.0035	350.0	50
185381-5	10	5	49.4610	49.4692	0.0082	820.0	50
185381-6	10	5	49.5611	49.5706	0.0095	950.0	50
185381-7	10	5	47.3404	47.3490	0.0086	860.0	50
185381-8	10	5	49.0688	49.0977	0.0289	2,890.0	50
185381-9	10	5	25.9720	25.9980	0.0260	2,600.0	50
185381-10	10	5	25.1283	25.1463	0.0180	1,800.0	50
185381-11	10	5	25.3656	25.3753	0.0097	970.0	50
185381-12	10	5	27.6483	27.6569	0.0086	860.0	50
185381-13	10	5	25.9485	25.9592	0.0107	1,070.0	50
185381-14	10	5	25.7348	25.7448	0.0100	1,000.0	50
185381-15	10	5	24.3992	24.4051	0.0059	590.0	50
185381-16	10	5	24.4174	24.4231	0.0057	570.0	50
185381-17	10	5	25.3779	25.3851	0.0072	720.0	50
185381-18	10	5	29.1933	29.1999	0.0066	660.0	50
185381-19	10	5	27.8758	27.8811	0.0053	530.0	50
185381-20	10	5	27.6007	27.6055	0.0048	480.0	50

Note: Because the regulatory holding time is based on the prep date, the analysis date referenced above is the prep date.

Reviewed by/ Date: Qm 3-20-06

TDS (Total Dissolved Solids)
EPA 160.1 / SMWW 2540C

Curtis & Tompkins, Ltd.

LIMS Batch #: 111305

Prep Date: 3-14-06
Prep Time: 18:15

Benchbook#: **BK2145**
Page: **81**

Filter Mfg/ Lot#: F1672870
Spike WS#: S2182

Spike WS Conc (mg/L): 1,000
Spike Vol Added (mL): 5

	In	Out	In-2	Out-2	In-3	Out-3
Date:	3-14-06	3-15-06	3-15-06	3-15-06	3-15-06	3-15-06
Time:	20:30	11:00	14:00	16:00	17:00	20:30
Temp (C):	90°C	180°C	180°C	180°C	180°C	180°C

Sample # / Letter	EC Value (µS/cm)	Sample Vol. Filtered (mL)	Dish ID	Dish Wt (g)	1st Dry Wt.(g)	2nd Dry Wt (g)*	3rd Dry Wt (g)*
MB		50	AA	49.1748	49.1740	24.4042	
BS			0	47.2946	47.3004	47.2999	
BSD			4	49.1327	49.1382	49.1384	
185381-001L	79.00	10	3	44.2186	44.2204	44.2200	
SDWP -001			I	42.8858	42.8874	42.8870	
-002L	71.00		2	50.6659	50.6672	50.6675	
-003I	1,248		4	49.4929	49.5009	49.5011	
-004F	590		2	50.1137	50.1190	50.1172	50.1169
-005I	1,434		00	49.4610	49.4701	49.4692	49.4690
-006	1,530		LM1	49.5611	49.5706	49.5701	
-007F	778		6X	47.3404	47.3490	47.3491	
-008B	3,720		K	49.0688	49.0977	49.0975	
-009	3,590		LR	25.9720	25.9980	25.9980	
-010	2,270		LL	25.1283	25.1463	25.1461	
-011 H	1,587		10	25.3656	25.3753	25.3756	
-012	1,648		AA	27.6483	27.6578	27.6569	27.6570
-013	1,634		+	25.9485	25.9592	25.9590	
-014	1,730		MM	25.7348	25.7448	25.7445	
-015I	831		AA	24.3992	24.4051	24.4054	
-016	885		LM	24.4174	24.4231	24.4230	
-017	985		50	25.3779	25.3851	25.3850	
-018	924		FF	29.1933	29.1999	29.1994	
-019L	796		11	27.8758	27.8811	27.8808	
-020	778		22	27.6007	27.6055	27.6060	
					RS 3/15/06		

* Constant weight must be within 0.0005 from previous reading.

RSciFFa 3/14/06
Analyst / Date

3-20-06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111305
Date Started: 14-MAR-2006
Batched by : Radia Shiffa

Analysis : TDS
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185381-001			Treadwell & Rollo	Water	TDS	20-MAR-2006
185381-002			Treadwell & Rollo	Water	TDS	20-MAR-2006
185381-003			Treadwell & Rollo	Water	TDS	20-MAR-2006
185381-004			Treadwell & Rollo	Water	TDS	20-MAR-2006
185381-005			Treadwell & Rollo	Water	TDS	20-MAR-2006
185381-006			Treadwell & Rollo	Water	TDS	20-MAR-2006
185381-007			Treadwell & Rollo	Water	TDS	20-MAR-2006
185381-008			Treadwell & Rollo	Water	TDS	20-MAR-2006
185381-009			Treadwell & Rollo	Water	TDS	20-MAR-2006
185381-010			Treadwell & Rollo	Water	TDS	20-MAR-2006
185381-011			Treadwell & Rollo	Water	TDS	20-MAR-2006
185381-012			Treadwell & Rollo	Water	TDS	20-MAR-2006
185381-013			Treadwell & Rollo	Water	TDS	20-MAR-2006
185381-014			Treadwell & Rollo	Water	TDS	20-MAR-2006
185381-015			Treadwell & Rollo	Water	TDS	20-MAR-2006
185381-016			Treadwell & Rollo	Water	TDS	20-MAR-2006
185381-017			Treadwell & Rollo	Water	TDS	20-MAR-2006
185381-018			Treadwell & Rollo	Water	TDS	20-MAR-2006
185381-019			Treadwell & Rollo	Water	TDS	20-MAR-2006
185381-020			Treadwell & Rollo	Water	TDS	20-MAR-2006
185381-021			Treadwell & Rollo	Water	TDS	20-MAR-2006
QC331[illegible]	BLANK			Water	TDS	
QC331[illegible]	BS			Water	TDS	
QC331[illegible]	BSD			Water	TDS	
QC331[illegible]	SDUP	of 185381-001		Water	TDS	

Curtis & Tompkins, Ltd.

Total Organic Carbon (TOC)

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 415.2
Analyte:	Total Organic Carbon	Sampled:	03/07/06
Matrix:	Water	Received:	03/08/06
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Diln Fac	Batch#	Analyzed
1065PZ5AR	SAMPLE	185381-005	42	2.0	4.000	111692	03/24/06
DUP0307062B	SAMPLE	185381-006	42	2.0	4.000	111692	03/24/06
610GW101	SAMPLE	185381-015	3.1	0.50	1.000	111739	03/26/06
610GW102	SAMPLE	185381-016	4.2	0.50	1.000	111739	03/26/06
610GW103	SAMPLE	185381-017	4.2	0.50	1.000	111739	03/26/06
DUP0307061A	SAMPLE	185381-018	4.3	0.50	1.000	111739	03/26/06
600GW108	SAMPLE	185381-019	2.2	0.50	1.000	111739	03/26/06
DUP0307061B	SAMPLE	185381-020	2.1	0.50	1.000	111739	03/26/06
	BLANK	QC333074	ND	0.50	1.000	111692	03/24/06
	BLANK	QC333263	ND	0.50	1.000	111739	03/26/06

ND= Not Detected
RL= Reporting Limit

542

REVISED
CW 4/27/06

103.2

Curtis & Tompkins, Ltd.

Batch QC Report

Total Organic Carbon (TOC)

Lab #:	185381	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 415.2
Analyte:	Total Organic Carbon	Units:	mg/L
Matrix:	Water	Diln Fac:	1.000

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim	Batch#	Analyzed
BS	QC333075	15.00	13.85	92	80-120			111692	03/24/06
BSD	QC333076	15.00	14.25	95	80-120	3	20	111692	03/24/06
BS	QC333264	10.00	9.105	91	80-120			111739	03/26/06
BSD	QC333265	10.00	9.189	92	80-120	1	20	111739	03/26/06

RPD= Relative Percent Difference

543

REVISED
CW 4/27/06

104.1

Analysis:	**Total Inorganic & Organic Carbon**	Date Analyzed:	**24-Mar-06**
Method:	**EPA 415.2 / SMWW 5310c**	Batch #:	**111692**
Matrix:	Water	Analyst:	SY
Instrument:	Tekmar-Dorman		
SOP#:	toc_415_rv 7.doc		

Calibration Range: 0.5- 20ppm Calibration Date: 16-Feb-05

Standard Conc (mg/L)	Injection Size (mL)	Expected ug C	ABS	RF
0	4.0	0	285214	
0.5	4.0	2.0	1020522	510261
1.0	4.0	4.0	1372216	343054
5.0	4.0	20.0	5433587	271679
10.0	4.0	40.0	10544965	263624
20.0	4.0	80.0	22033950	275424

Correlation Coefficient (r):	0.9995	Slope:	269261
R-Square:	0.9989	Intercept:	229731

Calibration Verification Data

	TOC (mg/L) True Value	Instrument "ppm C"	TOC (mg/L) Report	Recovery	Recovery Limits
ICV	15.0	13.85	13.8486	92%	90% - 110%
ICB	0	0.20	ND		
CCV	15.0	13.67	13.6706	91%	90% - 110%
CCB	0	0.30	ND		

Analysis:	**Total Inorganic & Organic Carbon**	Date Analyzed:	**24-Mar-06**
Method:	**EPA 415.2 / SMWW 5310c**	Batch #:	**111692**
Matrix:	Water	Analyst:	SY
Instrument:	Tekmar-Dorman		

Batch QC Data

Sample	PDF	Instrument "ppm C"	**TOC (mg/L) Report**	Reporting Limit (mg/L)	TOC Spike Level (mg/L)	Recovery,%	%RPD
BLANK	1	0.2049	**ND**	0.5			
BS	1	13.8486	**13.8486**	0.5	15	92.3	
BSD	1	14.2546	**14.2546**	0.5	15	95.0	2.89

QC Limits	Recovery	RPD
LCS/ BS/ BSD	80 - 120	20
SSPIKE/ SDUP	71 - 134	20

Sample Data

Sample	IDF	Instrument "ppm C"	**TOC (mg/L) Report**	Reporting Limit (mg/L)
185381-5	4	10.40	**41.59**	2.0
185381-6	4	10.57	**42.29**	2.0

Detailed Analysis Report Print Date/Time: 2006/03/24 13:40:05

Sample ID: blk
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03241128
Timestamp: 03/24/2006 11:42
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2241	0.8965	370200	35.106	36.103	61
2	0.1971	0.7884	341081	35.082	36.072	59

<<<Statistics>>> Mean: 0.2106 Std Dev: 0.0191 RSD: 9.07

Sample ID: icb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03241128
Timestamp: 03/24/2006 11:56
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2049	0.8197	349517	35.072	36.068	59
2	0.2090	0.8358	353850	34.988	35.987	59

<<<Statistics>>> Mean: 0.2070 Std Dev: 0.0029 RSD: 1.40

Sample ID: 15 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03241128
Timestamp: 03/24/2006 12:13
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.8486	55.3944	15145282	35.034	36.033	149
2	14.0053	56.0213	15314076	35.167	36.165	162

<<<Statistics>>> Mean: 13.9270 Std Dev: 0.1108 RSD: 0.80

Sample ID: bsd
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03241128
Timestamp: 03/24/2006 12:29
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.2546	57.0182	15481565	35.308	36.307	158
2	14.2047	56.8190	15427917	35.358	36.358	128

<<<Statistics>>> Mean: 14.2297 Std Dev: 0.0353 RSD: 0.25

Sample ID: 185381-5Ex4
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03241128
Timestamp: 03/24/2006 12:46
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.3976	41.5903	11327445	35.336	36.336	134
2	10.3504	41.4016	11276621	35.267	36.265	142

<<<Statistics>>> Mean: 10.3740 Std Dev: 0.0334 RSD: 0.32

Sample ID: 185381-6Ex4
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03241128
Timestamp: 03/24/2006 13:04
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.5715	42.2858	11514713	35.185	36.182	187
2	10.5743	42.2971	11517758	35.301	36.300	179

<<<Statistics>>> Mean: 10.5729 Std Dev: 0.0020 RSD: 0.02

Sample ID: 185381-15Dx4
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03241128
Timestamp: 03/24/2006 13:18
Sample Type: Sample

Rerun undil

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.1322	4.5288	1348223	35.345	36.342	71
2	0.9473	3.7892	1149081	35.108	36.103	69

<<<Statistics>>> Mean: 1.0397 Std Dev: 0.1307 RSD: 12.57

Sample ID: 185381-16Dx4
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03241128
Timestamp: 03/24/2006 13:32
Sample Type: Cal. Verification

Reinjected sample wrongly set as cal verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.0967	4.3866	1410870	35.077	36.069	71
2	1.1061	4.4245	1421065	35.111	36.109	72

Last Message: Out of Calibration
<<<Statistics>>> Mean: 1.1014 Std Dev: 0.0066 RSD: 0.60

↓ undiluted

SP 3.24.06

Detailed Analysis Report Print Date/Time: 2006/03/24 15:33:28

Sample ID: 185381-17Dx4
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03241341
Timestamp: 03/24/2006 13:55
Sample Type: Sample

undiluted

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.4141	5.6564	1651832	35.174	36.172	75
2	1.1913	4.7653	1411895	35.076	36.076	72

<<<Statistics>>> Mean: 1.3027 Std Dev: 0.1575 RSD: 12.09

Sample ID: 15 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03241341
Timestamp: 03/24/2006 14:11
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.6706	54.6825	14953589	35.213	36.211	102
2	13.8943	55.5773	15194529	35.296	36.296	146

<<<Statistics>>> Mean: 13.7824 Std Dev: 0.1582 RSD: 1.15

Sample ID: ccb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03241341
Timestamp: 03/24/2006 14:25
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.3036	1.2145	455807	35.395	36.391	58
2	0.2338	0.9352	380608	35.283	36.280	58

<<<Statistics>>> Mean: 0.2687 Std Dev: 0.0494 RSD: 18.37

Sample ID: 185381-18Dx4
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03241341
Timestamp: 03/24/2006 14:39
Sample Type: Sample

undiluted

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.1591	4.6363	1377160	35.292	36.289	71
2	1.2035	4.8141	1425048	35.256	36.251	72

<<<Statistics>>> Mean: 1.1813 Std Dev: 0.0314 RSD: 2.66

Sample ID: 185381-19Dx4
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03241341
Timestamp: 03/24/2006 14:53
Sample Type: Sample

undiluted

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.7280	2.9119	912854	35.222	36.221	68
2	0.6666	2.6663	846723	35.254	36.243	64

<<<Statistics>>> Mean: 0.6973 Std Dev: 0.0434 RSD: 6.23

Sample ID: 185381-20Dx4
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03241341
Timestamp: 03/24/2006 15:07
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.6595	2.6379	839067	35.195	36.193	67
2	0.6585	2.6340	838035	35.242	36.234	68

<<<Statistics>>> Mean: 0.6590 Std Dev: 0.0007 RSD: 0.11

undiluted

Exp Jun-18-06
Toc std: (S2952) 1000ppm
icv/BLD:
3 ml → 200 ml @ 15ppm
SY
3.28.06

Sample ID: 15 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03241341
Timestamp: 03/24/2006 15:22
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.3308	53.3232	14587586	35.216	36.215	99
2	13.5540	54.2161	14828010	35.175	36.173	102

Last Message: Out of Calibration
<<<Statistics>>> Mean: 13.4424 Std Dev: 0.1578 RSD: 1.17

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111692
Date Started: 24-MAR-2006
Batched by : Sunitha Yerragodula

Analysis : TOC
Bgroup : N/A
Department : Wet Chemistry

Sample	Type	Client	Matrix	Analyses	Due Date
185381-005		Treadwell & Rollo	Water	TOC	20-MAR-2006
185381-006		Treadwell & Rollo	Water	TOC	20-MAR-2006
QC333074	BLANK		Water	TOC	
QC333075	BS		Water	TOC	
QC333076	BSD		Water	TOC	

Analysis:	**Total Inorganic & Organic Carbon**	Date Analyzed:	**26-Mar-06**
Method:	**EPA 415.2 / SMWW 5310c**	Batch #:	**111739**
Matrix:	Water	Analyst:	SY
Instrument:	Tekmar-Dorman		
SOP#:	toc_415_rv 7.doc		

Calibration Range: **0.5- 20ppm** Calibration Date: 16-Feb-05

Standard Conc (mg/L)	Injection Size (mL)	Expected ug C	ABS	RF
0	4.0	0	285214	
0.5	4.0	2.0	1020522	510261
1.0	4.0	4.0	1372216	343054
5.0	4.0	20.0	5433587	271679
10.0	4.0	40.0	10544965	263624
20.0	4.0	80.0	22033950	275424

Correlation Coefficient (r):	0.9995	Slope:	269261
R-Square:	0.9989	Intercept:	229731

Calibration Verification Data

	TOC (mg/L) True Value	Instrument "ppm C"	TOC (mg/L) Report	Recovery	Recovery Limits
ICV	10.0	9.11	9.1052	91%	90% - 110%
ICB	0	0.07	ND		
CCV	10.0	9.04	9.0399	90%	90% - 110%
CCB	0	0.25	ND		

REVISED
Qw 4/27/06

551

Analysis:	**Total Inorganic & Organic Carbon**	Date Analyzed:	**26-Mar-06**
Method:	**EPA 415.2 / SMWW 5310c**	Batch #:	**111739**
Matrix:	Water	Analyst:	SY
Instrument:	Tekmar-Dorman		

Batch QC Data

Sample	PDF	Instrument "ppm C"	TOC (mg/L) Report	Reporting Limit (mg/L)	TOC Spike Level (mg/L)	Recovery,%	%RPD
BLANK	1	0.0689	**ND**	0.5			
BS	1	9.1052	**9.1052**	0.5	10	91.1	
BSD	1	9.1886	**9.1886**	0.5	10	91.9	0.91

QC Limits	Recovery	RPD
LCS/ BS/ BSD	80 - 120	20
SSPIKE/ SDUP	71 - 134	20

Sample Data

Sample	IDF	Instrument "ppm C"	TOC (mg/L) Report	Reporting Limit (mg/L)
185381-15	1	3.05	**3.05**	0.5
185381-16	1	4.21	**4.21**	0.5
185381-17	1	4.24	**4.24**	0.5
185381-18	1	4.29	**4.29**	0.5
185381-19	1	2.23	**2.23**	0.5
185381-20	1	2.07	**2.07**	0.5
185408-1	1	1.79	**1.79**	0.5

REVISED
Cw 4/27/06

552

Detailed Analysis Report Print Date/Time: 2006/03/27 6:09:02

Sample ID: blk
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 17:12
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.3718	1.4871	529218	33.976	34.972	66
2	0.1163	0.4653	254085	34.025	35.021	57

<<<Statistics>>> Mean: 0.2440 Std Dev: 0.1807 RSD: 74.03

Sample ID: icb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 17:26
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0689	0.2756	203012	34.072	35.071	55
2	0.0712	0.2850	205523	34.110	35.104	54

<<<Statistics>>> Mean: 0.0701 Std Dev: 0.0016 RSD: 2.32

Sample ID: 10 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 17:42
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	8.9779	35.9116	9899307	34.188	35.187	124
2	9.1052	36.4206	10036374	34.344	35.344	113

<<<Statistics>>> Mean: 9.0415 Std Dev: 0.0900 RSD: 1.00

Sample ID: bsd
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 17:57
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.2175	36.8701	10056473	34.494	35.494	109
2	9.1886	36.7545	10025343	34.510	35.508	116

<<<Statistics>>> Mean: 9.2030 Std Dev: 0.0204 RSD: 0.22

Sample ID: 185381-15D
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 18:12
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.0519	12.2076	3415832	34.610	35.607	92
2	3.0004	12.0015	3360341	34.413	35.412	102

<<<Statistics>>> Mean: 3.0261 Std Dev: 0.0364 RSD: 1.20

Sample ID: 185381-16D
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 18:28
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.2118	16.8471	4665046	34.598	35.597	113
2	4.3169	17.2677	4778322	34.475	35.474	121

<<<Statistics>>> Mean: 4.2643 Std Dev: 0.0743 RSD: 1.74

Sample ID: 185381-17D
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 18:44
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.2376	16.9504	4692874	34.537	35.533	119
2	4.2440	16.9759	4699734	34.448	35.447	123

<<<Statistics>>> Mean: 4.2408 Std Dev: 0.0045 RSD: 0.11

Sample ID: 185381-18D
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 19:00
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.2872	17.1487	4746266	34.536	35.535	126
2	4.2647	17.0589	4722101	34.426	35.425	112

<<<Statistics>>> Mean: 4.2759 Std Dev: 0.0159 RSD: 0.37

Sample ID: 185381-19G
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 19:15
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.2343	8.9373	2535262	34.486	35.480	101
2	2.1965	8.7861	2494553	34.391	35.385	102

<<<Statistics>>> Mean: 2.2154 Std Dev: 0.0267 RSD: 1.21

Sample ID: 185381-20I
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 19:31
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.0701	8.2804	2358375	34.502	35.502	109
2	2.0554	8.2216	2342542	34.389	35.387	111

<<<Statistics>>> Mean: 2.0627 Std Dev: 0.0104 RSD: 0.50

Sample ID: 185408-1G
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 19:46
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.7890	7.1562	2055673	34.455	35.453	108
2	1.7905	7.1620	2057251	34.384	35.384	108

<<<Statistics>>> Mean: 1.7898 Std Dev: 0.0011 RSD: 0.06

Sample ID: 10 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 20:02
Sample Type: Cal. Verification

TOC (S2952 Exp Jun-18-06)
ICV / BSD :
2ml → 200 ml @ 10ppm
SY 3.28.06

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	8.9761	35.9044	9897385	34.412	35.411	127
2	9.0399	36.1594	9966047	34.504	35.501	122

<<<Statistics>>> Mean: 9.0080 Std Dev: 0.0451 RSD: 0.50

Sample ID: ccb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 20:16
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2494	0.9978	397451	34.573	35.569	55
2	0.1555	0.6218	296231	34.392	35.382	54

<<<Statistics>>> Mean: 0.2025 Std Dev: 0.0664 RSD: 32.80

Sample ID: 185408-2J
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 20:33
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.1160	40.4640	11024161	34.297	35.296	174
2	10.3046	41.2185	11227325	34.366	35.365	143

<<<Statistics>>> Mean: 10.2103 Std Dev: 0.1334 RSD: 1.31

Sample ID: 185408-2Mms
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 20:50
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.2613	41.0451	11180621	34.408	35.408	158
2	10.1830	40.7322	11096370	34.571	35.570	148

<<<Statistics>>> Mean: 10.2221 Std Dev: 0.0554 RSD: 0.54

Sample ID: 185408-2Mmsd
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 21:06
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.1047	40.4190	11012039	34.564	35.563	149
2	10.0414	40.1658	10943866	34.597	35.595	139

<<<Statistics>>> Mean: 10.0730 Std Dev: 0.0448 RSD: 0.44

Sample ID: 185408-3I
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 21:23
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time

1	5.3110	21.2440	5848965	34.436	35.431	142
2	5.0785	20.3142	5598606	34.367	35.364	135

<<<Statistics>>> Mean: 5.1947 Std Dev: 0.1644 RSD: 3.16

Sample ID: 185408-4I
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 21:40
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	8.4754	33.9017	9257203	34.156	35.155	150
2	8.8119	35.2475	9619554	34.197	35.197	156

<<<Statistics>>> Mean: 8.6437 Std Dev: 0.2379 RSD: 2.75

Sample ID: 185408-5I
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 21:57
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.9608	19.8430	5471749	34.256	35.255	155
2	5.0649	20.2595	5583897	34.255	35.254	166

<<<Statistics>>> Mean: 5.0128 Std Dev: 0.0736 RSD: 1.47

Sample ID: 185481-1C
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 22:14
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.0147	24.0588	6606888	34.262	35.261	156
2	5.9576	23.8304	6545389	34.253	35.251	149

<<<Statistics>>> Mean: 5.9861 Std Dev: 0.0404 RSD: 0.67

Sample ID: 185556-1Cx2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 22:28
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2720	1.0879	421723	34.135	35.129	61
2	0.2001	0.8004	344306	33.941	34.939	61

<<<Statistics>>> Mean: 0.2361 Std Dev: 0.0508 RSD: 21.54

Sample ID: 10 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 22:41
Sample Type: Cal. Verification

out of cell

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	-0.1240	-0.4962	96134	33.908	34.908	49
2	-0.1222	-0.4886	98157	33.784	34.778	50

Last Message: Out of Calibration
<<<Statistics>>> Mean: -0.1231 Std Dev: 0.0013 RSD: -1.03

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111739
Date Started: 26-MAR-2006
Batched by : Jason K. Spence

Analysis : TOC
Bgroup : N/A
Department : Wet Chemistry

Sample	Type	Client	Matrix	Analyses	Due Date
185381-015		Treadwell & Rollo	Water	TOC	20-MAR-2006
185381-016		Treadwell & Rollo	Water	TOC	20-MAR-2006
185381-017		Treadwell & Rollo	Water	TOC	20-MAR-2006
185381-018		Treadwell & Rollo	Water	TOC	20-MAR-2006
185381-019		Treadwell & Rollo	Water	TOC	20-MAR-2006
185381-020		Treadwell & Rollo	Water	TOC	20-MAR-2006
185408-001		Treadwell & Rollo	Water	TOC	21-MAR-2006
QC333263	BLANK		Water	TOC	
QC333264	BS		Water	TOC	
QC333265	BSD		Water	TOC	

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REVISED
CW 4/27/06

Total Organic Carbon
by Walkley-Black Method
Method Detection Limit Study

Analysis:	**Total Organic Carbon**	Analysis Date:	**6-May-05**
Method:	EPA 415.2 / SM 5310C	Batch:	101838
Matrix:	Water	Analyst:	DW

Conc. (mg/L)	0.500
1	0.6200
2	0.5500
3	0.5500
4	0.5800
5	0.6200
6	0.6300
7	0.5500
STDEVP	0.034166
Student's t-value	3.143
ML (mg/L)	**0.1074**
RL (mg/L)	0.50
Status	PASS

Note: Student-T value for 7 replicates = 3.143, for 8 replicates = 2.998

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 185408

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.04.51
Location: Presidio

Sample ID	Lab ID
600GW106	185408-001
600GW101	185408-002
600GW105	185408-003
231GW21	185408-004
DUP0308061A	185408-005
LF01GW01	185408-006
DUP0308063C	185408-007
DAESP03	185408-008
DUP0308063A	185408-009
BB3SW104	185408-010
DUP0308063B	185408-011
TB0308063B	185408-012

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 4/6/06
Operations Manager

Signature: _____ Date: 4/5/06
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**185408**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**03/09/06**
Samples Received:	**03/09/06**

This hardcopy data package contains sample and QC results for eleven water samples, requested for the above referenced project on 03/09/06. The samples were received cold and intact. MBAS analysis was cancelled for samples DAESP03 (185408-008) and DUP0308063A (185408-009) due to inability to meet hold time per J.Graber.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):
No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

Pesticides (EPA 8081A):
High response was observed for methoxychlor in the ICV analyzed 03/03/06 19:07; average ICV drift met method requirements, and this analyte was not detected at or above the RL in the associated samples. Low responses were observed for 4,4'-DDT in the CCV analyzed 03/13/06 12:02 and the CCV analyzed 03/16/06 00:28; average CCV drift met method requirements. No other analytical problems were encountered.

Polychlorinated Biphenyls (PCBs) (EPA 8082):
High response was observed for Aroclor-1260 in the CCV analyzed 03/12/06 18:13; this analyte was not detected at or above the RL in the associated samples. No other analytical problems were encountered.

Polynuclear Aromatics by HPLC (EPA 8310):
Low recoveries were observed for benzo(a)pyrene in the MS/MSD of DAESP03 (lab # 185408-008); the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Metals (EPA 6020, EPA 7470A, and SM 2340B) Water:
Low recoveries were observed for calcium and manganese in the MS/MSD of BB3SW104 (lab # 185408-010); the BS/BSD were within limits, and the associated RPDs were within limits. Responses exceeding the instrument's linear range were observed for a number of analytes in the MS/MSD of 600GW101 (lab # 185408-002), the MS/MSD of DAESP03 (lab # 185408-008), and the MS/MSD of BB3SW104 (lab # 185408-010). High % differences were observed for many analytes in the serial dilution of DAESP03 (lab # 185408-008). No other

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**185408**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**03/09/06**
Samples Received:	**03/09/06**

Metals (EPA 6020 and EPA 7470A) Filtrate:
High recoveries were observed for magnesium and sodium in the MSs of DAESP03 (lab # 185408-008); the BS/BSDs were within limits, and the associated RPDs were within limits. No other analytical problems were encountered.

Ion Chromatography (EPA 300.0):
No analytical problems were encountered.

Total Cyanide (EPA 335.2):
No analytical problems were encountered.

Alkalinity (EPA 310.1):
No analytical problems were encountered.

Sulfide (EPA 376.2):
No analytical problems were encountered.

Total Dissolved Solids (TDS) (EPA 160.1):
No analytical problems were encountered.

Total Organic Carbon (TOC) (EPA 415.2):
No analytical problems were encountered.

Chain of Custody

185408

Treadwell&Rollo

Environmental and Geotechnical Consultants

555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. 0P 2025
Page: ___ of ___

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTS / SOOCH S. / PETE C.
Recorder (signature required):
Sent to Laboratory (Name): CAT

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) MTBE	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other) (14)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	TOC	TOTAL SULFIDE	BTEX/MTBE				COMMENTS / NOTES
1	600GW106	3/8/06	950			X		6	3	1		5	X	X	X	X	X		X		X	X	X	X					
2	600GW101	↓	1050			X		9	9	3		9	X	X	X		X		X		X		X	X	X				MS/MSD
3	600GW105		1300			X		6	3	1		5	X	X	X	X	X		X		X	X	X	X					
4	231GW21		1358			X		6	3	1		3	X	X	X	X	X		X		X		X	X					
5	DUP030806IA		1430			X		6	3	1		3	X	X	X	X	X		X		X		X	X					
													•			•													
6																													

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE: 3/9/06
PRINT NAME: FIRM:	TIME:	PRINT NAME: Rick Grams FIRM: CAT	TIME: 11:30
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

White Copy - Original **Yellow Copy** - Laboratory **Pink Copy** - Field

Treadwell&Rollo
Environmental and Geotechnical Consultants
555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

185408

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. 0P 2027
Page: ___ of ___

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTS John DeJong
Recorder (signature required): [signature]
Sent to Laboratory (Name):

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) MTBE	General Chemistry [2]	OCPs (8081) PCB's	Metals - Dissolved [3] (23, 13, 9, 8, 7, 3, Other)	Metals - Total [3] (23, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	Cyanide	WBAS	Total hardness	Molybdenum	Diss. Metals 23	Total metals 23	COMMENTS / NOTES
-6	LFDIGW01	3/8/06	1530			X				1	1	1					X		X		X		X						
-7	DUP030806C	3/8/06	1535			X				1	1	1					X		X		X		X						
-8	DAES103		1000			X		18		8	3	21	X	X	X	X	X	X			X	X		X	X	X	X	X	MS/MSD
-9	DUP030806A		1005			X		6		2	1	7	X	X	X	X	X	X			X	X		X	X	X	X	X	
-10	BB33W104		1330			X		9		6		6	X	X	X		X		X	X	X								MS/MSD
-11	DUP030806B		1335			X		3		2		2	X	X	X		X		X	X	X								
-12	TB030806B		—			X						2	•			•													on hold

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY: [signature]	DATE:	RECEIVED BY: [signature]	DATE: 3/9/06
PRINT NAME: FIRM:	TIME:	PRINT NAME: Ricky Grams FIRM: CGT	TIME: 11:30
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

White Copy - Original **Yellow Copy** - Laboratory **Pink Copy** - Field

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 185408 Date Received: 3-9-06 Number of Coolers: 5
Client: Treadwell & Rollo Project: Presidio

A. Preliminary Examination Phase
Date Opened: 3-9-06 By (print): Troy Windsor (sign) Troy E Windsor

1. Did cooler come with a shipping slip (airbill, etc.)?..... YES (NO)
   If YES, enter carrier name and airbill number:
2. Were custody seals on outside of cooler?..... (YES) NO
   How many and where? 1 over cooler lip Seal date: 3-9-06 Seal name: Illegible
3. Were custody seals unbroken and intact at the date and time of arrival?..... (YES) NO
4. Were custody papers dry and intact when received?..... (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)?..... (YES) NO
6. Did you sign the custody papers in the appropriate place?..... (YES) NO
7. Was project identifiable from custody papers?..... (YES) NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... (YES) NO
   Type of ice: Wet Temperature: 2.7 2.1 2.8 2.4 3.0

B. Login Phase
Date Logged In: 3-9-06 By (print): Troy Windsor (sign) Troy E Windsor

1. Describe type of packing in cooler: In ziploc type bags
2. Did all bottles arrive unbroken?..... (YES) NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)?..(YES) NO
4. Did bottle labels agree with custody papers?..... (YES) NO
5. Were appropriate containers used for the tests indicated?..... (YES) NO
6. Were correct preservatives added to samples?..... (YES) NO
7. Was sufficient amount of sample sent for tests indicated?..... (YES) NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below..... (YES) NO
9. Was the client contacted concerning this sample delivery?..... YES NO
   If YES, give details below.
   Who was called? By whom? Date:

Additional Comments:

TOTAL VOLATILE HYDROCARBONS/

BTXE

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	600GW106	Batch#:	111139
Lab ID:	185408-001	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	100	65-135
Bromofluorobenzene (FID)	107	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	600GW101	Batch#:	111139
Lab ID:	185408-002	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	140 Y	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	107	65-135	EPA 8015B
Bromofluorobenzene (FID)	112	65-135	EPA 8015B
Trifluorotoluene (PID)	85	65-135	EPA 8021B
Bromofluorobenzene (PID)	86	65-135	EPA 8021B

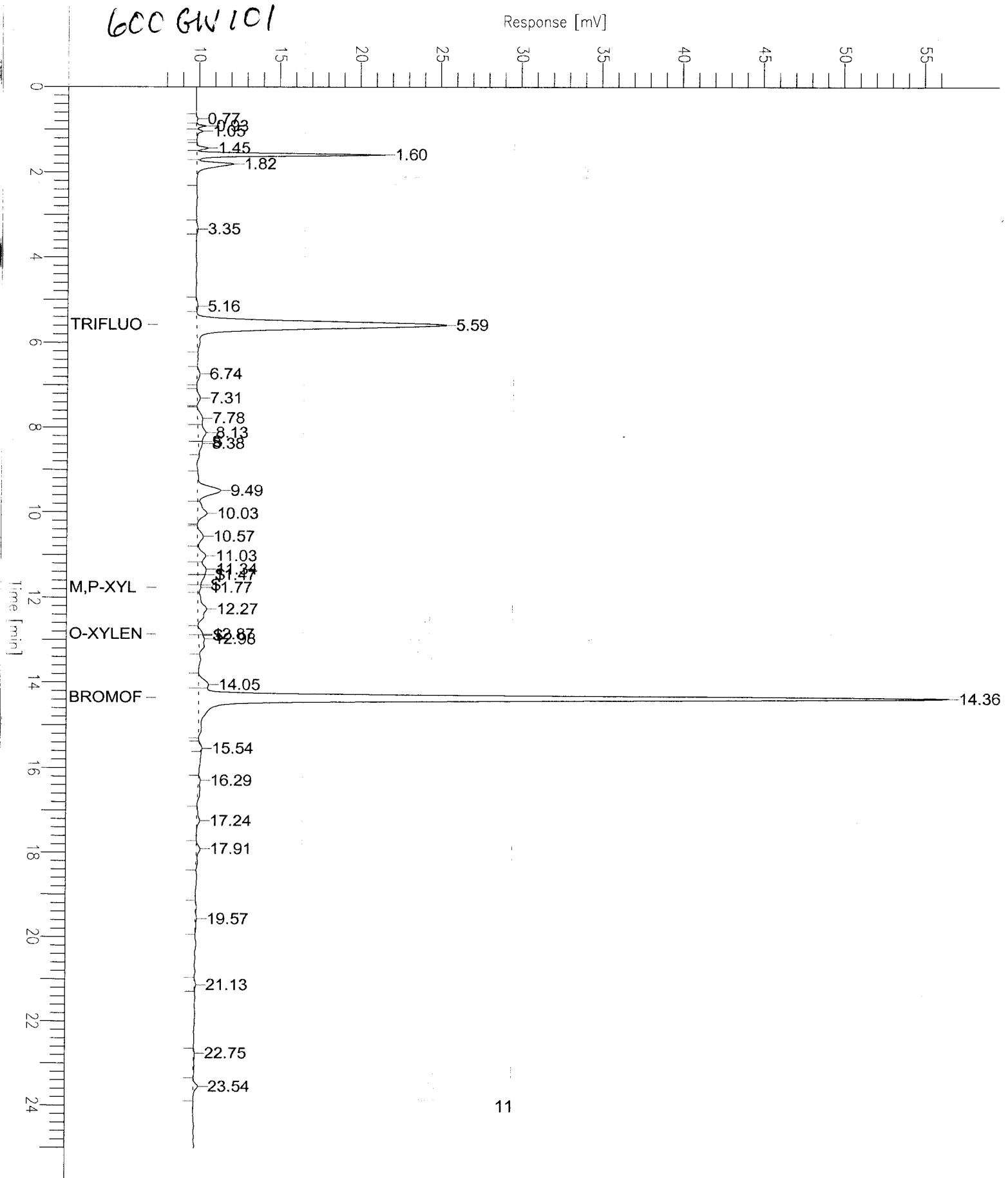
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

GC05 'H' File PID BTXE Quant

Sample Name : mss,185408-002,111139,mbtxe+tvh
FileName : G:\GC05\DATA\068H015.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 25.00 min
Scale Factor: 1.0 Plot Offset: 7 mV

Sample #: a1.3
Date : 3/10/06 11:54 AM
Time of Injection: 3/9/06 08:17 PM
Low Point : 7.44 mV High Point : 56.63 mV
Plot Scale: 49.2 mV

GCC GW 101



Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	600GW105	Batch#:	111139
Lab ID:	185408-003	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Analyzed:	03/10/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	65-135
Bromofluorobenzene (FID)	104	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	231GW21	Batch#:	111139
Lab ID:	185408-004	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Analyzed:	03/10/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	3,100	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	116	65-135
Bromofluorobenzene (FID)	109	65-135

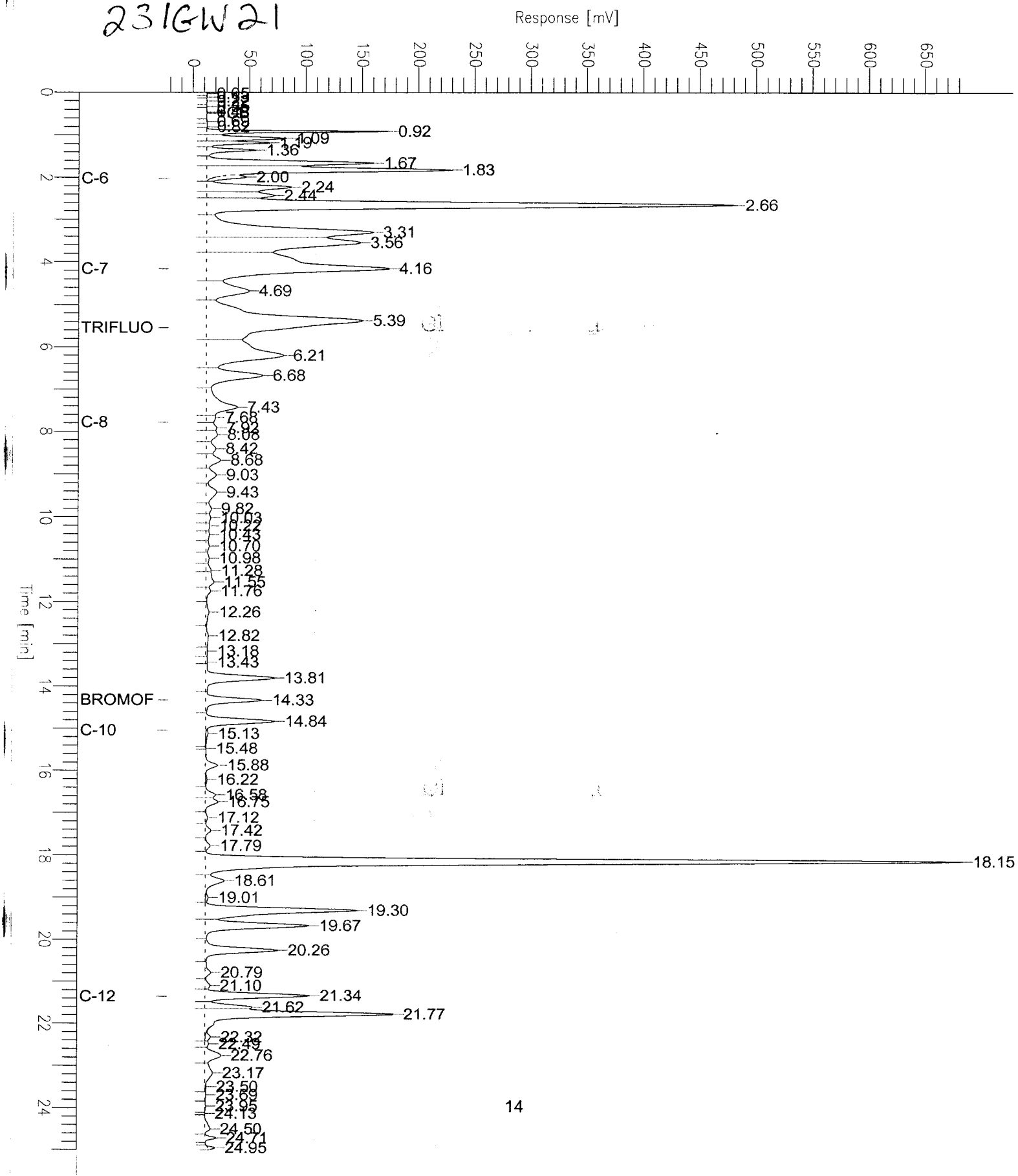
RL= Reporting Limit

Chromatogram

Sample Name : 185408-004,111139,tvh
FileName : G:\GC05\DATA\068G024.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 25.00 min
Scale Factor: 1.0 Plot Offset: -21 mV

Sample #: b1.3 Page 1 of 1
Date : 3/10/06 01:25 AM
Time of Injection: 3/10/06 01:00 AM
Low Point : -21.48 mV High Point : 684.93 mV
Plot Scale: 706.4 mV

231GW21



Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	DUP0308061A	Batch#:	111139
Lab ID:	185408-005	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Analyzed:	03/10/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	3,400	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	120	65-135
Bromofluorobenzene (FID)	112	65-135

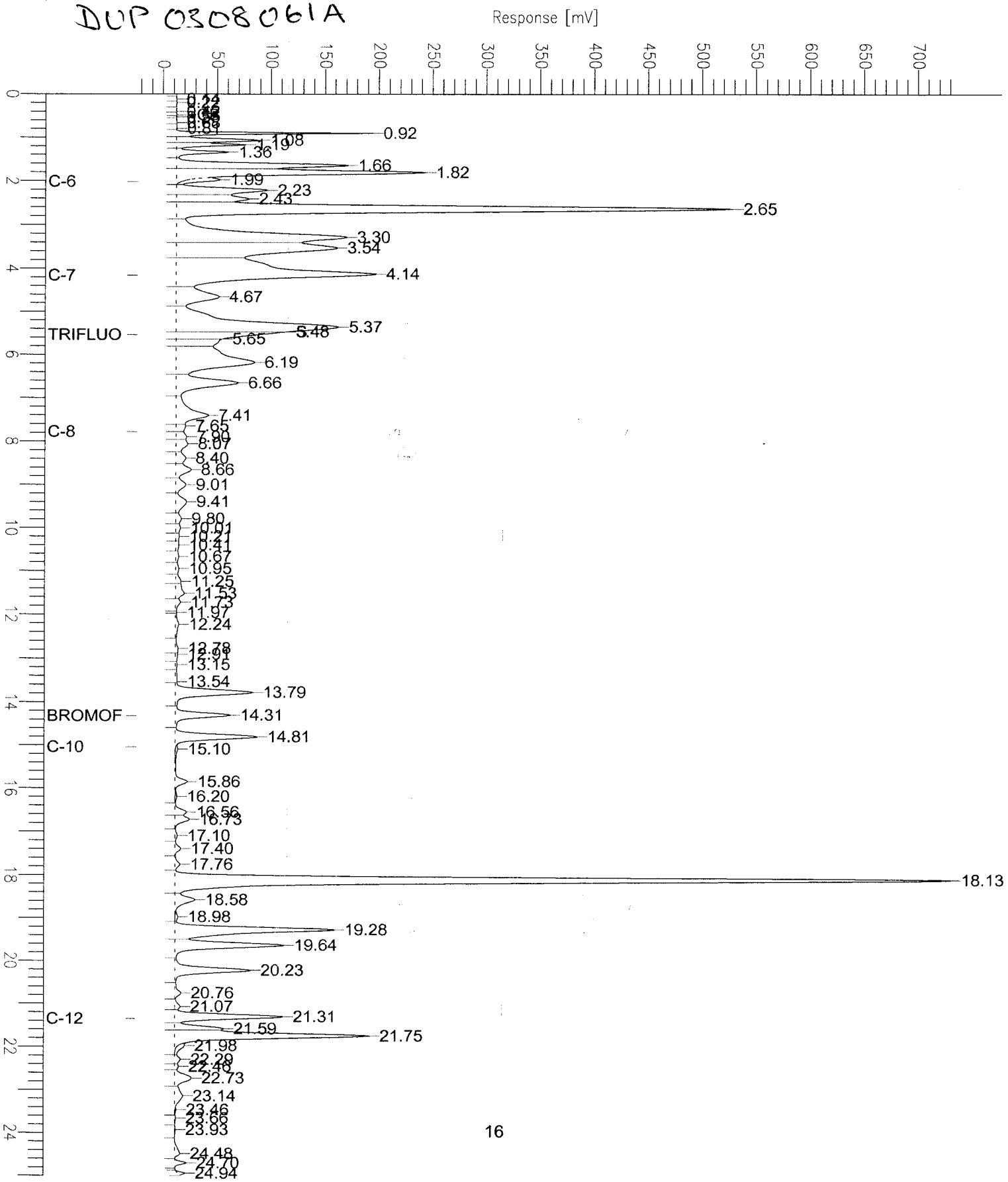
RL= Reporting Limit

Chromatogram

Sample Name : 185408-005,111139,tvh
FileName : G:\GC05\DATA\068G031.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 25.00 min
Scale Factor: 1.0 Plot Offset: -24 mV

Sample #: b1.3
Date : 3/10/06 11:53 AM
Time of Injection: 3/10/06 04:39 AM
Low Point : -23.77 mV High Point : 732.06 mV
Plot Scale: 755.8 mV

DUP 0308061A



Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	DAESP03	Batch#:	111139
Lab ID:	185408-008	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Analyzed:	03/10/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	65-135
Bromofluorobenzene (FID)	104	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	DUP0308063A	Batch#:	111139
Lab ID:	185408-009	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Analyzed:	03/10/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	65-135
Bromofluorobenzene (FID)	103	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	BB3SW104	Batch#:	111139
Lab ID:	185408-010	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Analyzed:	03/10/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	101	65-135
Bromofluorobenzene (FID)	99	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	DUP0308063B	Batch#:	111139
Lab ID:	185408-011	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Analyzed:	03/10/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	65-135
Bromofluorobenzene (FID)	107	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC330771	Batch#:	111139
Matrix:	Water	Analyzed:	03/09/06
Units:	ug/L		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	105	65-135	EPA 8015B
Bromofluorobenzene (FID)	101	65-135	EPA 8015B
Trifluorotoluene (PID)	86	65-135	EPA 8021B
Bromofluorobenzene (PID)	85	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

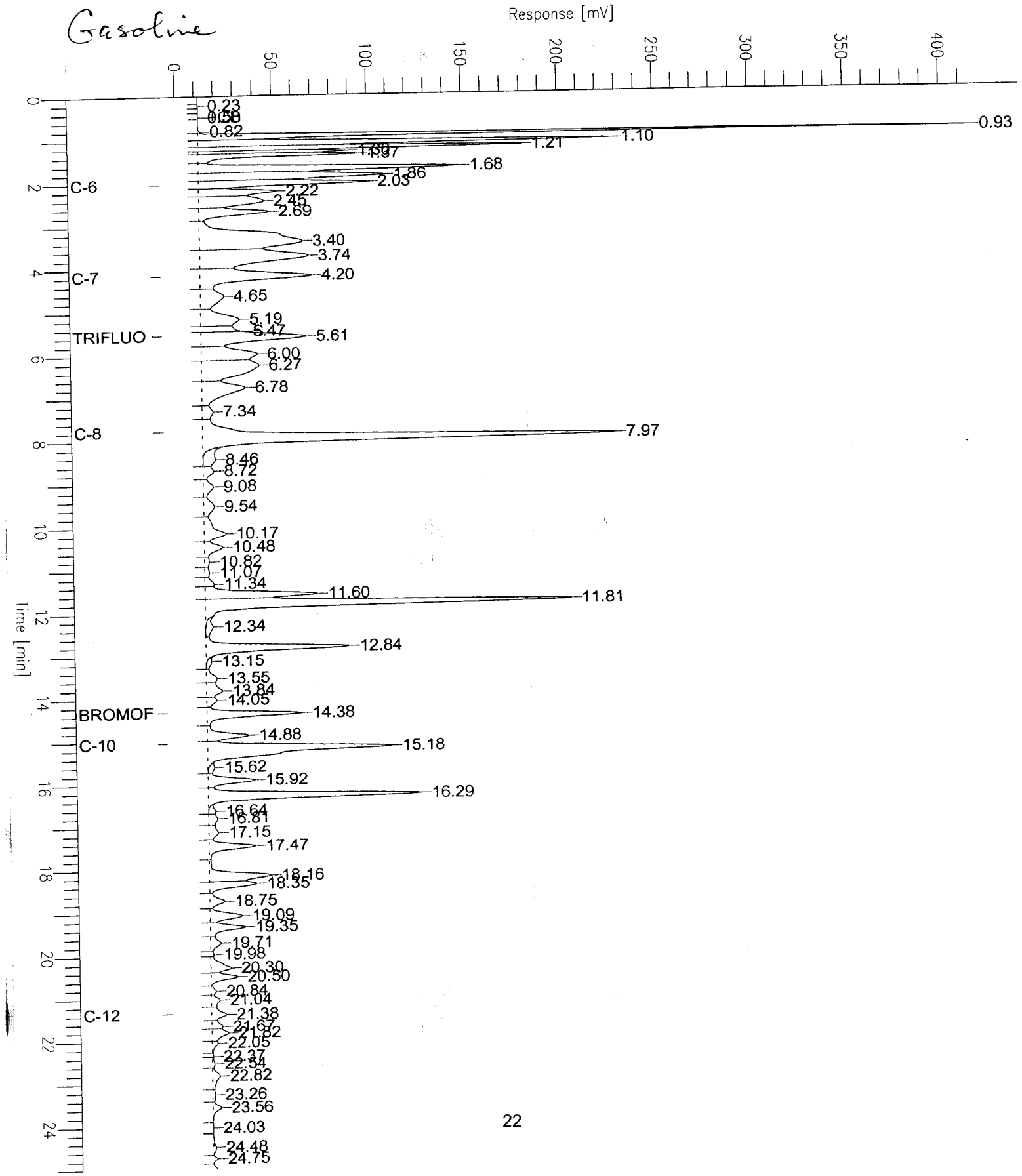
Chromatogram

Sample Name : ccv/lcs,qc330773,111139,S2869,5/5000
FileName : G:\GC05\DATA\068G002.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor: 1.0

End Time : 25.00 min
Plot Offset: -8 mV

Sample #:
Date : 3/10/06 11:53 AM
Time of Injection: 3/9/06 12:46 PM
Low Point : -8.11 mV
Plot Scale: 424.0 mV

High Point : 415.93 mV



Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC330773	Batch#:	111139
Matrix:	Water	Analyzed:	03/09/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	1,981	99	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	123	65-135
Bromofluorobenzene (FID)	109	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8021B
Type:	BS	Diln Fac:	1.000
Lab ID:	QC330772	Batch#:	111139
Matrix:	Water	Analyzed:	03/09/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
MTBE	20.00	19.30	96	65-135
Benzene	20.00	18.78	94	65-135
Toluene	20.00	19.39	97	65-135
Ethylbenzene	20.00	19.51	98	65-135

Surrogate	%REC	Limits
Trifluorotoluene (PID)	87	65-135
Bromofluorobenzene (PID)	88	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8021B
Type:	BSD	Diln Fac:	1.000
Lab ID:	QC330889	Batch#:	111139
Matrix:	Water	Analyzed:	03/10/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	20.00	20.04	100	65-135	4	35
Benzene	20.00	18.33	92	65-135	2	35
Toluene	20.00	19.01	95	65-135	2	35
Ethylbenzene	20.00	18.56	93	65-135	5	35

Surrogate	%REC	Limits
Trifluorotoluene (PID)	85	65-135
Bromofluorobenzene (PID)	84	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	600GW101	Batch#:	111139
MSS Lab ID:	185408-002	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Type: MS Lab ID: QC330849

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	144.6	2,000	1,989	92	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	127	65-135
Bromofluorobenzene (FID)	118	65-135

Type: MSD Lab ID: QC330850

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,015	94	65-135	1	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	124	65-135
Bromofluorobenzene (FID)	114	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	DAESP03	Batch#:	111139
MSS Lab ID:	185408-008	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Type: MS Lab ID: QC330851

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	19.34	2,000	1,898	94	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	126	65-135
Bromofluorobenzene (FID)	114	65-135

Type: MSD Lab ID: QC330852

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,893	94	65-135	0	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	121	65-135
Bromofluorobenzene (FID)	109	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	BB3SW104	Batch#:	111139
MSS Lab ID:	185408-010	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Analyzed:	03/09/06
Diln Fac:	1.000		

Type: MS Lab ID: QC330853

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	12.87	2,000	1,899	94	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	122	65-135
Bromofluorobenzene (FID)	111	65-135

Type: MSD Lab ID: QC330854

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,939	96	65-135	2	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	120	65-135
Bromofluorobenzene (FID)	112	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	111139
MSS Lab ID:	185422-002	Sampled:	03/09/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Analyzed:	03/10/06
Diln Fac:	1.000		

Type: MS Lab ID: QC330890

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	13.02	2,000	1,865	93	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	121	65-135
Bromofluorobenzene (FID)	110	65-135

Type: MSD Lab ID: QC330891

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,902	94	65-135	2	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	121	65-135
Bromofluorobenzene (FID)	109	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	111139
MSS Lab ID:	185422-009	Sampled:	03/09/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Analyzed:	03/10/06
Diln Fac:	1.000		

Type: MS Lab ID: QC330912

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	385.0	2,000	2,276	95	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	120	65-135
Bromofluorobenzene (FID)	111	65-135

Type: MSD Lab ID: QC330913

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,244	93	65-135	1	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	117	65-135
Bromofluorobenzene (FID)	106	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185408 GCVOA Water: EPA 8015B

Inst : GC05
Calnum : 315497353001
Units : ng

Name : tvh
Date : 11-DEC-2005 10:16
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	345_003	315497353003	tvh 1	11-DEC-2005 10:16	S1367 (1000X), S1895 (5000X)
L2	345_004	315497353004	tvh 2	11-DEC-2005 10:48	S1368 (1000X), S1895 (5000X)
L3	345_005	315497353005	tvh 3	11-DEC-2005 11:19	S1369 (1000X), S1895 (5000X)
L4	345_006	315497353006	tvh 4	11-DEC-2005 11:51	S1370 (2000X), S1895 (5000X)
L5	345_007	315497353007	tvh 5	11-DEC-2005 12:23	S1370 (1000X), S1895 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	G	1693.0	1307.5	1282.8	1171.1	1217.8	AVRG		7.49E-4		1334.5	16	0.995	20	

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AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

315497353001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185408 GCVOA Water
EPA 8015B

Inst : GC05 Name : tvh
Calnum : 315497353001 Cal Date: 11-DEC-2005

ICV 315497353010 (345_010 11-DEC-2005) stds: S2241 (1000X), S1895 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	G	10000	9115	ng	-9	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185408 GCVOA Water: EPA 8021B

Inst : GC05
Calnum : 316062601001
Units : ng

Name : MBTXE
Date : 12-FEB-2006 14:34
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	043_005	316062601005	btxe 1	12-FEB-2006 14:34	S2368 (1000X), S2543 (5000X)
L2	043_006	316062601006	mtbe 1	12-FEB-2006 15:06	S2367 (1250X), S2543 (5000X)
L3	043_007	316062601007	mbtxe 2	12-FEB-2006 15:38	S2367 (500X), S2543 (5000X)
L4	043_008	316062601008	mbtxe 3	12-FEB-2006 16:10	S2367 (125X), S2543 (5000X)
L5	043_009	316062601009	mbtxe 4	12-FEB-2006 16:42	S2366 (1000X), S2543 (5000X)
L6	043_010	316062601010	mbtxe 5	12-FEB-2006 17:13	S2366 (500X), S2543 (5000X)
L7	043_011	316062601011	mbtxe 6	12-FEB-2006 17:45	S2366 (250X), S2543 (5000X)
L8	043_012	316062601012	mtbe 7	12-FEB-2006 18:17	S1492 (500X), S2543 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
MTBE	H		500.50	507.40	495.60	549.62	570.21	548.04	496.84	AVRG		0.00191		524.03	6	0.995	20	
Benzene	H	1636.0		1390.9	1369.3	1430.7	1444.7	1442.5		AVRG		6.89E-4		1452.4	7	0.995	20	
Toluene	H	1558.0		1351.6	1324.7	1322.4	1342.2	1335.2		AVRG		7.29E-4		1372.3	7	0.995	20	
Ethylbenzene	H	1196.0		1171.3	1134.0	1149.3	1152.6	1141.2		AVRG		8.64E-4		1157.4	2	0.995	20	
m,p-Xylenes	H	1636.0		1404.5	1425.6	1414.8	1407.6	1395.4		AVRG		6.91E-4		1447.3	6	0.995	20	
o-Xylene	H	1328.0		1159.0	1154.6	1142.8	1149.6	1128.8		AVRG		8.50E-4		1177.1	6	0.995	20	
MTBE	I		134.10	153.84	165.11	209.16	228.42	230.46	215.86	AVRG		0.00524		190.99	20	0.995	20	
Benzene	I	424.80		443.80	505.67	580.08	602.82	619.99		AVRG		0.00189		529.53	16	0.995	20	
Toluene	I	342.00		413.68	471.62	538.20	562.15	579.48		AVRG		0.00206		484.52	19	0.995	20	
Ethylbenzene	I	315.26		373.81	422.87	485.20	502.89	521.53		AVRG		0.00229		436.93	19	0.995	20	
m,p-Xylenes	I	463.32		427.11	496.13	565.88	587.17	611.29		AVRG		0.00190		525.15	14	0.995	20	
o-Xylene	I	306.48		357.56	411.56	471.31	495.69	514.60		AVRG		0.00235		426.20	19	0.995	20	

33

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

316062601001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185408 GCVOA Water
EPA 8021B

Inst : GC05 Name : MBTXE
Calnum : 316062601001 Cal Date: 12-FEB-2006

ICV 316062601015 (043_015 12-FEB-2006) stds: S2157 (1000X), S2543 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
MTBE	H	100.0	84.56	ng	-15	15	
Benzene	H	100.0	100.9	ng	1	15	
Toluene	H	100.0	101.7	ng	2	15	
Ethylbenzene	H	100.0	100.4	ng	0	15	
m,p-Xylenes	H	200.0	205.6	ng	3	15	
o-Xylene	H	100.0	101.2	ng	1	15	
MTBE	I	100.0	87.71	ng	-12	15	
Benzene	I	100.0	111.3	ng	11	15	
Toluene	I	100.0	108.2	ng	8	15	
Ethylbenzene	I	100.0	107.9	ng	8	15	
m,p-Xylenes	I	200.0	217.8	ng	9	15	
o-Xylene	I	100.0	103.0	ng	3	15	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185408 GCVOA Water: EPA 8015B / EPA 8021B

Inst : GC05
Calnum : 316013420001
Units : ng

Name : TFT/BFB
Date : 09-JAN-2006 12:00
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	009_006	316013420006	tft/bfb 1	09-JAN-2006 12:00	S1889 (5000X)
L2	009_007	316013420007	tft/bfb 2	09-JAN-2006 12:32	S1890 (5000X)
L3	009_008	316013420008	tft/bfb 3	09-JAN-2006 13:04	S1891 (5000X)
L4	009_009	316013420009	tft/bfb 4	09-JAN-2006 13:42	S1892 (5000X)
L5	009_010	316013420010	tft/bfb 5	09-JAN-2006 14:13	S1893 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	G	1339.7	1422.7	1133.8	1120.9	1121.5	AVRG		8.15E-4		1227.7	12	0.995	20	
Bromofluorobenzene (FID)	G	858.52	958.51	732.70	751.93	754.50	AVRG		0.00123		811.23	12	0.995	20	
Trifluorotoluene (PID)	H	455.13	504.69	437.53	455.86	452.98	AVRG		0.00217		461.24	6	0.995	20	
Bromofluorobenzene (PID)	H	901.33	1032.5	919.64	956.84	945.96	AVRG		0.00105		951.26	5	0.995	20	
Trifluorotoluene (PID)	I	138.14	152.07	139.19	147.34	149.65	AVRG		0.00688		145.28	4	0.995	20	
Bromofluorobenzene (PID)	I	287.49	334.84	315.38	332.14	331.18	AVRG		0.00312		320.20	6	0.995	20	

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AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

316013420001

CONTINUING CALIBRATION SUMMARY FOR 185408 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Gasoline C7-C12

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	G	316098654002	09-MAR-2006 12:46	315497353001	11-DEC-2005	1334.5	1321.9	10000	9906.0	ng	-1	15	
GC05	G	316098654013	09-MAR-2006 19:14	315497353001	11-DEC-2005	1334.5	1219.8	15000	13711	ng	-9	15	
GC05	G	316098654014	09-MAR-2006 19:46	315497353001	11-DEC-2005	1334.5	1265.2	15000	14221	ng	-5	15	
GC05	G	316098654027	10-MAR-2006 02:34	315497353001	11-DEC-2005	1334.5	1275.3	5000.0	4778.4	ng	-4	15	
GC05	G	316098654028	10-MAR-2006 03:05	315497353001	11-DEC-2005	1334.5	1301.1	5000.0	4875.1	ng	-2	15	
GC05	G	316098654041	10-MAR-2006 09:51	315497353001	11-DEC-2005	1334.5	1295.3	10000.0	9706.9	ng	-3	15	
GC05	G	316098654042	10-MAR-2006 10:22	315497353001	11-DEC-2005	1334.5	1281.5	10000.0	9602.8	ng	-4	15	
GC05	G	316098654050	10-MAR-2006 14:33	315497353001	11-DEC-2005	1334.5	1234.0	15000	13871	ng	-8	15	

CONTINUING CALIBRATION SUMMARY FOR 185408 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: MTBE

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316098654001	09-MAR-2006 12:14	316062601001	12-FEB-2006	524.03	505.60	100.00	96.483	ng	-4	15	
GC05	I	316098654001	09-MAR-2006 12:14	316062601001	12-FEB-2006	190.99	192.57	100.00	100.83	ng	1	15	
GC05	H	316098654011	09-MAR-2006 18:11	316062601001	12-FEB-2006	524.03	564.16	150.00	161.49	ng	8	15	
GC05	I	316098654011	09-MAR-2006 18:11	316062601001	12-FEB-2006	190.99	188.59	150.00	148.12	ng	-1	15	
GC05	H	316098654012	09-MAR-2006 18:43	316062601001	12-FEB-2006	524.03	584.64	150.00	167.35	ng	12	15	
GC05	I	316098654012	09-MAR-2006 18:43	316062601001	12-FEB-2006	190.99	194.69	150.00	152.91	ng	2	15	
GC05	H	316098654025	10-MAR-2006 01:32	316062601001	12-FEB-2006	524.03	550.93	50.000	52.567	ng	5	15	
GC05	I	316098654025	10-MAR-2006 01:32	316062601001	12-FEB-2006	190.99	196.38	50.000	51.411	ng	3	15	
GC05	H	316098654026	10-MAR-2006 02:03	316062601001	12-FEB-2006	524.03	577.45	50.000	55.097	ng	10	15	
GC05	I	316098654026	10-MAR-2006 02:03	316062601001	12-FEB-2006	190.99	190.44	50.000	49.856	ng	0	15	
GC05	H	316098654039	10-MAR-2006 08:48	316062601001	12-FEB-2006	524.03	498.35	100.00	95.100	ng	-5	15	
GC05	I	316098654039	10-MAR-2006 08:48	316062601001	12-FEB-2006	190.99	179.85	100.00	94.166	ng	-6	15	

CONTINUING CALIBRATION SUMMARY FOR 185408 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Benzene

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316098654001	09-MAR-2006 12:14	316062601001	12-FEB-2006	1452.4	1364.1	100.00	93.923	ng	-6	15	
GC05	I	316098654001	09-MAR-2006 12:14	316062601001	12-FEB-2006	529.53	546.45	100.00	103.20	ng	3	15	
GC05	H	316098654011	09-MAR-2006 18:11	316062601001	12-FEB-2006	1452.4	1444.8	150.00	149.22	ng	-1	15	
GC05	I	316098654011	09-MAR-2006 18:11	316062601001	12-FEB-2006	529.53	532.42	150.00	150.82	ng	1	15	
GC05	H	316098654012	09-MAR-2006 18:43	316062601001	12-FEB-2006	1452.4	1453.8	150.00	150.15	ng	0	15	
GC05	I	316098654012	09-MAR-2006 18:43	316062601001	12-FEB-2006	529.53	533.89	150.00	151.24	ng	1	15	
GC05	H	316098654025	10-MAR-2006 01:32	316062601001	12-FEB-2006	1452.4	1348.3	50.000	46.418	ng	-7	15	
GC05	I	316098654025	10-MAR-2006 01:32	316062601001	12-FEB-2006	529.53	537.44	50.000	50.747	ng	1	15	
GC05	H	316098654026	10-MAR-2006 02:03	316062601001	12-FEB-2006	1452.4	1349.0	50.000	46.442	ng	-7	15	
GC05	I	316098654026	10-MAR-2006 02:03	316062601001	12-FEB-2006	529.53	515.98	50.000	48.721	ng	-3	15	
GC05	H	316098654039	10-MAR-2006 08:48	316062601001	12-FEB-2006	1452.4	1320.9	100.00	90.949	ng	-9	15	
GC05	I	316098654039	10-MAR-2006 08:48	316062601001	12-FEB-2006	529.53	499.96	100.00	94.417	ng	-6	15	

CONTINUING CALIBRATION SUMMARY FOR 185408 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Toluene

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316098654001	09-MAR-2006 12:14	316062601001	12-FEB-2006	1372.3	1330.6	100.00	96.958	ng	-3	15	
GC05	I	316098654001	09-MAR-2006 12:14	316062601001	12-FEB-2006	484.52	495.82	100.00	102.33	ng	2	15	
GC05	H	316098654011	09-MAR-2006 18:11	316062601001	12-FEB-2006	1372.3	1357.3	150.00	148.35	ng	-1	15	
GC05	I	316098654011	09-MAR-2006 18:11	316062601001	12-FEB-2006	484.52	478.56	150.00	148.15	ng	-1	15	
GC05	H	316098654012	09-MAR-2006 18:43	316062601001	12-FEB-2006	1372.3	1355.1	150.00	148.12	ng	-1	15	
GC05	I	316098654012	09-MAR-2006 18:43	316062601001	12-FEB-2006	484.52	479.74	150.00	148.52	ng	-1	15	
GC05	H	316098654025	10-MAR-2006 01:32	316062601001	12-FEB-2006	1372.3	1433.8	50.000	52.239	ng	4	15	
GC05	I	316098654025	10-MAR-2006 01:32	316062601001	12-FEB-2006	484.52	494.71	50.000	51.051	ng	2	15	
GC05	H	316098654026	10-MAR-2006 02:03	316062601001	12-FEB-2006	1372.3	1467.2	50.000	53.456	ng	7	15	
GC05	I	316098654026	10-MAR-2006 02:03	316062601001	12-FEB-2006	484.52	474.03	50.000	48.917	ng	-2	15	
GC05	H	316098654039	10-MAR-2006 08:48	316062601001	12-FEB-2006	1372.3	1301.6	100.00	94.845	ng	-5	15	
GC05	I	316098654039	10-MAR-2006 08:48	316062601001	12-FEB-2006	484.52	459.31	100.00	94.797	ng	-5	15	

CONTINUING CALIBRATION SUMMARY FOR 185408 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Ethylbenzene

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316098654001	09-MAR-2006 12:14	316062601001	12-FEB-2006	1157.4	1128.9	100.00	97.541	ng	-2	15	
GC05	I	316098654001	09-MAR-2006 12:14	316062601001	12-FEB-2006	436.93	434.92	100.00	99.540	ng	0	15	
GC05	H	316098654011	09-MAR-2006 18:11	316062601001	12-FEB-2006	1157.4	1146.7	150.00	148.62	ng	-1	15	
GC05	I	316098654011	09-MAR-2006 18:11	316062601001	12-FEB-2006	436.93	420.30	150.00	144.29	ng	-4	15	
GC05	H	316098654012	09-MAR-2006 18:43	316062601001	12-FEB-2006	1157.4	1149.4	150.00	148.97	ng	-1	15	
GC05	I	316098654012	09-MAR-2006 18:43	316062601001	12-FEB-2006	436.93	428.42	150.00	147.08	ng	-2	15	
GC05	H	316098654025	10-MAR-2006 01:32	316062601001	12-FEB-2006	1157.4	1175.9	50.000	50.798	ng	2	15	
GC05	I	316098654025	10-MAR-2006 01:32	316062601001	12-FEB-2006	436.93	448.08	50.000	51.276	ng	3	15	
GC05	H	316098654026	10-MAR-2006 02:03	316062601001	12-FEB-2006	1157.4	1165.1	50.000	50.332	ng	1	15	
GC05	I	316098654026	10-MAR-2006 02:03	316062601001	12-FEB-2006	436.93	424.98	50.000	48.633	ng	-3	15	
GC05	H	316098654039	10-MAR-2006 08:48	316062601001	12-FEB-2006	1157.4	1106.6	100.00	95.611	ng	-4	15	
GC05	I	316098654039	10-MAR-2006 08:48	316062601001	12-FEB-2006	436.93	403.53	100.00	92.356	ng	-8	15	

CONTINUING CALIBRATION SUMMARY FOR 185408 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: m,p-Xylenes

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316098654001	09-MAR-2006 12:14	316062601001	12-FEB-2006	1447.3	1426.8	100.00	98.583	ng	-1	15	
GC05	I	316098654001	09-MAR-2006 12:14	316062601001	12-FEB-2006	525.15	512.25	100.00	97.544	ng	-2	15	
GC05	H	316098654011	09-MAR-2006 18:11	316062601001	12-FEB-2006	1447.3	1385.1	150.00	143.55	ng	-4	15	
GC05	I	316098654011	09-MAR-2006 18:11	316062601001	12-FEB-2006	525.15	489.74	150.00	139.89	ng	-7	15	
GC05	H	316098654012	09-MAR-2006 18:43	316062601001	12-FEB-2006	1447.3	1381.7	150.00	143.20	ng	-5	15	
GC05	I	316098654012	09-MAR-2006 18:43	316062601001	12-FEB-2006	525.15	495.11	150.00	141.42	ng	-6	15	
GC05	H	316098654025	10-MAR-2006 01:32	316062601001	12-FEB-2006	1447.3	1448.1	50.000	50.028	ng	0	15	
GC05	I	316098654025	10-MAR-2006 01:32	316062601001	12-FEB-2006	525.15	517.35	50.000	49.257	ng	-1	15	
GC05	H	316098654026	10-MAR-2006 02:03	316062601001	12-FEB-2006	1447.3	1422.3	50.000	49.136	ng	-2	15	
GC05	I	316098654026	10-MAR-2006 02:03	316062601001	12-FEB-2006	525.15	491.02	50.000	46.750	ng	-6	15	
GC05	H	316098654039	10-MAR-2006 08:48	316062601001	12-FEB-2006	1447.3	1318.4	100.00	91.093	ng	-9	15	
GC05	I	316098654039	10-MAR-2006 08:48	316062601001	12-FEB-2006	525.15	467.15	100.00	88.955	ng	-11	15	

CONTINUING CALIBRATION SUMMARY FOR 185408 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: o-Xylene

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316098654001	09-MAR-2006 12:14	316062601001	12-FEB-2006	1177.1	1163.5	100.00	98.844	ng	-1	15	
GC05	I	316098654001	09-MAR-2006 12:14	316062601001	12-FEB-2006	426.20	423.12	100.00	99.277	ng	-1	15	
GC05	H	316098654011	09-MAR-2006 18:11	316062601001	12-FEB-2006	1177.1	1147.1	150.00	146.17	ng	-3	15	
GC05	I	316098654011	09-MAR-2006 18:11	316062601001	12-FEB-2006	426.20	412.71	150.00	145.25	ng	-3	15	
GC05	H	316098654012	09-MAR-2006 18:43	316062601001	12-FEB-2006	1177.1	1147.0	150.00	146.16	ng	-3	15	
GC05	I	316098654012	09-MAR-2006 18:43	316062601001	12-FEB-2006	426.20	412.43	150.00	145.15	ng	-3	15	
GC05	H	316098654025	10-MAR-2006 01:32	316062601001	12-FEB-2006	1177.1	1224.6	50.000	52.017	ng	4	15	
GC05	I	316098654025	10-MAR-2006 01:32	316062601001	12-FEB-2006	426.20	435.51	50.000	51.092	ng	2	15	
GC05	H	316098654026	10-MAR-2006 02:03	316062601001	12-FEB-2006	1177.1	1193.0	50.000	50.675	ng	1	15	
GC05	I	316098654026	10-MAR-2006 02:03	316062601001	12-FEB-2006	426.20	412.94	50.000	48.444	ng	-3	15	
GC05	H	316098654039	10-MAR-2006 08:48	316062601001	12-FEB-2006	1177.1	1103.1	100.00	93.712	ng	-6	15	
GC05	I	316098654039	10-MAR-2006 08:48	316062601001	12-FEB-2006	426.20	399.98	100.00	93.848	ng	-6	15	

CONTINUING CALIBRATION SUMMARY FOR 185408 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Trifluorotoluene (FID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	G	316098654001	09-MAR-2006 12:14	316013420001	09-JAN-2006	1227.7	1305.7	450.00	478.57	ng	6	15	
GC05	G	316098654002	09-MAR-2006 12:46	316013420001	09-JAN-2006	1227.7	1510.5	450.00	553.64	ng	**23**	15	c+ OASS
GC05	G	316098654011	09-MAR-2006 18:11	316013420001	09-JAN-2006	1227.7	1231.3	450.00	451.32	ng	0	15	
GC05	G	316098654025	10-MAR-2006 01:32	316013420001	09-JAN-2006	1227.7	1238.0	450.00	453.77	ng	1	15	
GC05	G	316098654039	10-MAR-2006 08:48	316013420001	09-JAN-2006	1227.7	1289.4	450.00	472.62	ng	5	15	
GC05	G	316098654049	10-MAR-2006 14:01	316013420001	09-JAN-2006	1227.7	1266.2	450.00	464.11	ng	3	15	

MMP 3/10/06

Laboratory Limits:
69-137%
CW 3/21/06

+=high bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 185408 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Bromofluorobenzene (FID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	G	316098654001	09-MAR-2006 12:14	316013420001	09-JAN-2006	811.23	822.75	450.00	456.39	ng	1	15	
GC05	G	316098654002	09-MAR-2006 12:46	316013420001	09-JAN-2006	811.23	885.19	450.00	491.03	ng	9	15	
GC05	G	316098654011	09-MAR-2006 18:11	316013420001	09-JAN-2006	811.23	784.70	450.00	435.28	ng	-3	15	
GC05	G	316098654025	10-MAR-2006 01:32	316013420001	09-JAN-2006	811.23	776.69	450.00	430.84	ng	-4	15	
GC05	G	316098654039	10-MAR-2006 08:48	316013420001	09-JAN-2006	811.23	807.22	450.00	447.78	ng	0	15	
GC05	G	316098654049	10-MAR-2006 14:01	316013420001	09-JAN-2006	811.23	811.23	450.00	450.00	ng	0	15	

CONTINUING CALIBRATION SUMMARY FOR 185408 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Trifluorotoluene (PID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316098654001	09-MAR-2006 12:14	316013420001	09-JAN-2006	461.24	400.53	450.00	390.77	ng	-13	15	
GC05	I	316098654001	09-MAR-2006 12:14	316013420001	09-JAN-2006	145.28	150.16	450.00	465.11	ng	3	15	
GC05	H	316098654011	09-MAR-2006 18:11	316013420001	09-JAN-2006	461.24	408.67	450.00	398.71	ng	-11	15	
GC05	I	316098654011	09-MAR-2006 18:11	316013420001	09-JAN-2006	145.28	138.51	450.00	429.04	ng	-5	15	
GC05	H	316098654025	10-MAR-2006 01:32	316013420001	09-JAN-2006	461.24	375.64	450.00	366.49	ng	**-19**	15	c- PASS
GC05	I	316098654025	10-MAR-2006 01:32	316013420001	09-JAN-2006	145.28	140.74	450.00	435.96	ng	-3	15	
GC05	H	316098654039	10-MAR-2006 08:48	316013420001	09-JAN-2006	461.24	400.76	450.00	390.99	ng	-13	15	
GC05	I	316098654039	10-MAR-2006 08:48	316013420001	09-JAN-2006	145.28	142.61	450.00	441.74	ng	-2	15	

mmp 3/10/06

Laboratory Limits:
64-132%
CW 3/21/06

-=low bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 185408 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Bromofluorobenzene (PID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316098654001	09-MAR-2006 12:14	316013420001	09-JAN-2006	951.26	832.89	450.00	394.00	ng	-12	15	
GC05	I	316098654001	09-MAR-2006 12:14	316013420001	09-JAN-2006	320.20	330.43	450.00	464.37	ng	3	15	
GC05	H	316098654011	09-MAR-2006 18:11	316013420001	09-JAN-2006	951.26	809.16	450.00	382.78	ng	-15	15	
GC05	I	316098654011	09-MAR-2006 18:11	316013420001	09-JAN-2006	320.20	307.51	450.00	432.16	ng	-4	15	
GC05	H	316098654025	10-MAR-2006 01:32	316013420001	09-JAN-2006	951.26	764.91	450.00	361.85	ng	**-20**	15	c-
GC05	I	316098654025	10-MAR-2006 01:32	316013420001	09-JAN-2006	320.20	307.11	450.00	431.60	ng	-4	15	
GC05	H	316098654039	10-MAR-2006 08:48	316013420001	09-JAN-2006	951.26	802.19	450.00	379.48	ng	**-16**	15	c-
GC05	I	316098654039	10-MAR-2006 08:48	316013420001	09-JAN-2006	320.20	311.45	450.00	437.69	ng	-3	15	

PASS

mmf 3/21/06

Laboratory Limits:
80-120%
aw 3/21/06

-=low bias c=CCV

PROJECT GC/MS Sequence by BK

Notebook No. BK2051

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 11-DEC-2005

Sequence: 315497353 Instrument: GC05
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #5 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC SPK uL	VL	pH	Stds Used	>LR
001	345_001	X	ib			11-DEC-2005 09:13	1.0				1	
002	345_002	X	ib			11-DEC-2005 09:44	1.0				1	
003	345_003	ICAL	tvh 1			11-DEC-2005 10:16	1.0				2 1 pass	
004	345_004	ICAL	tvh 2			11-DEC-2005 10:48	1.0				3 1	
005	345_005	ICAL	tvh 3			11-DEC-2005 11:19	1.0				4 1	
006	345_006	ICAL	tvh 4			11-DEC-2005 11:51	1.0				5 1	
007	345_007	ICAL	tvh 5			11-DEC-2005 12:23	1.0				5 1	
008	345_008	X	ib			11-DEC-2005 12:55	1.0				1	
009	345_009	X	tvh			11-DEC-2005 13:26	1.0	5000			6 1 Not used	
010	345_010	ICV	tvh			11-DEC-2005 13:58	1.0	5000			7 1 pass	
011	345_011	X	ib			11-DEC-2005 14:30	1.0				1	
012	345_012	X	carbmark			11-DEC-2005 15:02	1.0				8 9 1	

Stds used: 1=S1895 2=S1367 3=S1368 4=S1369 5=S1370 6=S2152 7=S2241 8=S1645 9=S1646

Analyst: BK Date: 12/13/05

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BK 12/13/05

Signed BK

Date 12/13/05

Read and Understood By

Signed Phillip Perez

Date 12/13/05

Continued on Page

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316013420 Instrument: GC05
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #5 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 09-JAN-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL (USED ID)	pH	Stds Used	>LR
001	009_001	X	ib			09-JAN-2006 07:40	1.0						1	
002	009_002	X	mbtxe		Water	09-JAN-2006 08:11	1.0						2 1 Not used	
003	009_003	X	gas		Water	09-JAN-2006 08:43	1.0						3 1	
004	009_004	X	ib			09-JAN-2006 09:14	1.0						1	
005	009_005	X	ib			09-JAN-2006 11:29	1.0						1	
006	009_006	ICAL	tft/bfb 1			09-JAN-2006 12:00	1.0						4 PASS/USE	
007	009_007	ICAL	tft/bfb 2			09-JAN-2006 12:32	1.0						5	
008	009_008	ICAL	tft/bfb 3			09-JAN-2006 13:04	1.0						6	
009	009_009	ICAL	tft/bfb 4			09-JAN-2006 13:42	1.0						7	
010	009_010	ICAL	tft/bfb 5			09-JAN-2006 14:13	1.0						8	
011	009_011	X	ib			09-JAN-2006 15:31	1.0						1	
012	009_012	CCV/LCS	QC323487	109331	Soil	09-JAN-2006 16:03	1.0			5000			2 1 PASS/USE	
013	009_013	CCV/LCS	QC323488	109331	Soil	09-JAN-2006 16:35	1.0		1	5000			3 1	
014	009_014	BLANK	QC323486	109331	Soil	09-JAN-2006 17:06	1.0	4		5000			1 ≤1/2 RL	
015	009_015	MSS	184210-025	109331	Soil	09-JAN-2006 18:44	1.0	1		5000	Comp		1	
016	009_016	MS	QC323558	109331	Soil	09-JAN-2006 19:15	1.0		2	5000			3 1 PASS/USE	
017	009_017	MSD	QC323559	109331	Soil	09-JAN-2006 19:47	1.0		2	5000			3 1	
018	009_018	SAMPLE	184210-019	109331	Soil	09-JAN-2006 20:18	1.0			5000			1	
019	009_019	SAMPLE	184210-020	109331	Soil	09-JAN-2006 20:50	1.0			5000			1	
020	009_020	SAMPLE	184210-021	109331	Soil	09-JAN-2006 21:22	1.0			5000			1	
021	009_021	SAMPLE	184210-022	109331	Soil	09-JAN-2006 21:53	1.0			5000			1	
022	009_022	CCV	btxe	109331		09-JAN-2006 22:25	1.0			5000			2 1 PASS/USE	
023	009_023	CCV	btxe	109331		09-JAN-2006 22:56	1.0			5000			2 1	
024	009_024	CCV	tvh	109331		09-JAN-2006 23:28	1.0			5000			3 1	
025	009_025	CCV	tvh	109331		09-JAN-2006 23:59	1.0			5000			3 1	
026	009_026	SAMPLE	184210-023	109331	Soil	10-JAN-2006 00:31	1.0			5000	Comp		1	
027	009_027	SAMPLE	184210-024	109331	Soil	10-JAN-2006 01:03	1.0		6	5000			1	
028	009_028	SAMPLE	184210-024	109331	Soil	10-JAN-2006 07:38	1.0			5000			1	
029	009_029	SAMPLE	184210-026	109331	Soil	10-JAN-2006 08:09	1.0	1	2	5000			1	1:BR4FBZ=1175.89
030	009_030	SAMPLE	184210-027	109331	Soil	10-JAN-2006 08:41	1.0			5000			1	

Stds used: 1=S1895 2=S2369 3=S2400 4=S1889 5=S1890 6=S1891 7=S1892 8=S1893

Analyst: [signature] Date: 01/10/06
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Sent used in QC EM 128974-M104164

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316013420 Instrument: GC05
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #5 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 09-JAN-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL (CODE ID)	pH	Stds Used	>LR
031	009_031	CCV	btxe	109331		10-JAN-2006 09:12	1.0			5000			2 1 PASS/USE	
032	009_032	CCV	tvh	109331		10-JAN-2006 09:44	1.0			5000			3 1	

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Stds used: 1=S1895 2=S2369 3=S2400 4=S1889 5=S1890 6=S1891 7=S1892 8=S1893

Analyst: [signature] Date: 01/10/06
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[signature] 1/10/06 Signed Date

[signature] 1/10/06 Signed Date

18 PROJECT GC05 Sequence Log Book

Notebook No. BL 2266

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316062601 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 12-FEB-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	043_001	X	ib			12-FEB-2006 11:21	1.0					1	
002	043_002	X	mbtxe check			12-FEB-2006 11:52	1.0					2 1 Not used	
003	043_003	X	ib			12-FEB-2006 12:24	1.0					1	
004	043_004	X	ib			12-FEB-2006 14:02	1.0					1	
005	043_005	ICAL	btxe 1			12-FEB-2006 14:34	1.0					3 1 Pass/use	
006	043_006	ICAL	mtbe 1			12-FEB-2006 15:06	1.0					4 1	
007	043_007	ICAL	mbtxe 2			12-FEB-2006 15:38	1.0					4 1	
008	043_008	ICAL	mbtxe 3			12-FEB-2006 16:10	1.0					4 1	
009	043_009	ICAL	mbtxe 4			12-FEB-2006 16:42	1.0					5 1	
010	043_010	ICAL	mbtxe 5			12-FEB-2006 17:13	1.0					5 1	
011	043_011	ICAL	mbtxe 6			12-FEB-2006 17:45	1.0					5 1	
012	043_012	ICAL	mtbe 7			12-FEB-2006 18:17	1.0					6 1	
013	043_013	X	ib			12-FEB-2006 18:49	1.0					1	
014	043_014	X	mbtxe			12-FEB-2006 19:21	1.0					7 1 Not used	
015	043_015	ICV	mbtxe			12-FEB-2006 19:53	1.0		5000			7 1 Pass/use	

Stds used: 1=S2543 2=S2650 3=S2368 4=S2367 5=S2366 6=S1492 7=S2157

Analyst: [signature] Date: 02/13/06

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Signed [signature] Date 02/13/06 49

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Read and Understood By

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316098654 Instrument: GC05
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #5 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 09-MAR-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	068_001	CCV/BS	QC330772	111139	Water	09-MAR-2006 12:14	1.0			5000			1 2	PASS/USE
002	068_002	CCV/LCS	QC330773	111139	Water	09-MAR-2006 12:46	1.0			5000			3 2	
003	068_003	BLANK	QC330771	111139	Water	09-MAR-2006 13:18	1.0	2		5000			2	≤1/2RL
004	068_004	SAMPLE	185402-001	111139	Water	09-MAR-2006 14:28	1.0			5000	A	1.9	2	
005	068_005	X	QC330831	111139		09-MAR-2006 15:00	1.0						3 2	Not used
006	068_006	X	QC330832	111139		09-MAR-2006 15:31	1.0						3 2	
007	068_007	SAMPLE	185396-001	111139	Water	09-MAR-2006 16:03	1.0			5000		1.3	2	
008	068_008	SAMPLE	185396-002	111139	Water	09-MAR-2006 16:35	1.0			5000			2	
009	068_009	SAMPLE	185396-003	111139	Water	09-MAR-2006 17:07	1.0			5000			2	
010	068_010	SAMPLE	185396-013	111139	Water	09-MAR-2006 17:39	1.0			5000			2	
011	068_011	CCV	btxe	111139		09-MAR-2006 18:11	1.0			5000			1 2	PASS/USE
012	068_012	CCV	btxe	111139		09-MAR-2006 18:43	1.0			5000			1 2	
013	068_013	CCV	tvh	111139		09-MAR-2006 19:14	1.0			5000			3 2	
014	068_014	CCV	tvh	111139		09-MAR-2006 19:46	1.0			5000			3 2	
015	068_015	MSS	185408-002	111139	Water	09-MAR-2006 20:17	1.0	2		5000	A	1.3	2	
016	068_016	MS	QC330849	111139	Water	09-MAR-2006 20:49	1.0			5000			3 2	PASS/USE
017	068_017	MSD	QC330850	111139	Water	09-MAR-2006 21:20	1.0			5000			3 2	
018	068_018	MS	QC330851	111139	Water	09-MAR-2006 21:52	1.0			5000	B		3 2	
019	068_019	MSD	QC330852	111139	Water	09-MAR-2006 22:23	1.0			5000			3 2	
020	068_020	MS	QC330853	111139	Water	09-MAR-2006 22:55	1.0			5000	A		3 2	
021	068_021	MSD	QC330854	111139	Water	09-MAR-2006 23:26	1.0			5000			3 2	
022	068_022	SAMPLE	185408-001	111139	Water	09-MAR-2006 23:58	1.0	1		5000	B		2	
023	068_023	SAMPLE	185408-003	111139	Water	10-MAR-2006 00:29	1.0	1		5000			2	
024	068_024	SAMPLE	185408-004	111139	Water	10-MAR-2006 01:00	1.0	1		5000			2	
025	068_025	CCV	btxe	111139		10-MAR-2006 01:32	1.0			5000			1 2	PASS/USE
026	068_026	CCV	btxe	111139		10-MAR-2006 02:03	1.0			5000			1 2	
027	068_027	CCV	tvh	111139		10-MAR-2006 02:34	1.0			5000			3 2	
028	068_028	CCV	tvh	111139		10-MAR-2006 03:05	1.0			5000			3 2	
029	068_029	SAMPLE	185409-007	111139	Water	10-MAR-2006 03:36	1.0			5000	A	1.3	2	
030	068_030	BSD	QC330889	111139	Water	10-MAR-2006 04:08	1.0			5000			1 2	PASS/USE

Stds used: 1=S2650 2=S2543 3=S2869

Analyst: [signature] Date: 3/10/06

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[signature] 03/10/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316098654 Instrument: GC05
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #5 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 09-MAR-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
031	068_031	SAMPLE	185408-005	111139	Water	10-MAR-2006 04:39	1.0	1		5000	B	1.3	2	1:F3BZME=965.547
032	068_032	MSS	185408-008	111139	Water	10-MAR-2006 05:11	1.0	2		5000			2	
033	068_033	SAMPLE	185408-009	111139	Water	10-MAR-2006 05:42	1.0	1		5000	B		2	
034	068_034	MSS	185408-010	111139	Water	10-MAR-2006 06:13	1.0	2		5000	A		2	
035	068_035	SAMPLE	185408-011	111139	Water	10-MAR-2006 06:44	1.0	1		5000			2	
036	068_036	SAMPLE	185422-001	111139	Water	10-MAR-2006 07:15	1.0			5000			2	
037	068_037	MSS	185422-002	111139	Water	10-MAR-2006 07:46	1.0	1		5000		7.0	2	
038	068_038	MSS	185422-009	111139	Water	10-MAR-2006 08:17	1.0	1		5000			2	
039	068_039	CCV	btxe	111139		10-MAR-2006 08:48	1.0			5000			1 2	PASS/USE
040	068_040	X	btxe	111139		10-MAR-2006 09:19	1.0						2	Not used
041	068_041	CCV	tvh	111139		10-MAR-2006 09:51	1.0			5000			3 2	PASS/USE
042	068_042	CCV	tvh	111139		10-MAR-2006 10:22	1.0			5000			3 2	
043	068_043	MS	QC330890	111139	Water	10-MAR-2006 10:53	1.0			5000	A	7.0	3 2	
044	068_044	MSD	QC330891	111139	Water	10-MAR-2006 11:24	1.0			5000			3 2	
045	068_045	MS	QC330912	111139	Water	10-MAR-2006 11:56	1.0			5000			3 2	
046	068_046	MSD	QC330913	111139	Water	10-MAR-2006 12:27	1.0		1	5000			3 2	
047	068_047	SAMPLE	185418-001	111139	Water	10-MAR-2006 12:59	1.0		1	5000	A	1.3	2	
048	068_048	SAMPLE	185409-006	111139	Water	10-MAR-2006 13:30	1.0		1	5000		7.0	2	
049	068_049	CCV	btxe	111139		10-MAR-2006 14:01	1.0			5000			1 2	PASS/USE
050	068_050	CCV	tvh	111139		10-MAR-2006 14:33	1.0			5000			3 2	

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Stds used: 1=S2650 2=S2543 3=S2869

Analyst: [signature] Date: 03/10/06

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[signature] Signed 03/10/06 Date

[signature] Signed 3/10/06 Date

REPORTING SUMMARY FOR 185408 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185408-001	Gasoline C7-C12	GC05	G	03/09/06 23:58
185408-001	Trifluorotoluene (FID)	GC05	G	03/09/06 23:58
185408-001	Bromofluorobenzene (FID)	GC05	G	03/09/06 23:58
185408-002	Gasoline C7-C12	GC05	G	03/09/06 20:17
185408-002	MTBE	GC05	H	03/09/06 20:17
185408-002	Benzene	GC05	H	03/09/06 20:17
185408-002	Toluene	GC05	H	03/09/06 20:17
185408-002	Ethylbenzene	GC05	H	03/09/06 20:17
185408-002	Trifluorotoluene (FID)	GC05	G	03/09/06 20:17
185408-002	Bromofluorobenzene (FID)	GC05	G	03/09/06 20:17
185408-002	Trifluorotoluene (PID)	GC05	H	03/09/06 20:17
185408-002	Bromofluorobenzene (PID)	GC05	H	03/09/06 20:17
185408-002	Xylene (total)	GC05	H	03/09/06 20:17
185408-003	Gasoline C7-C12	GC05	G	03/10/06 00:29
185408-003	Trifluorotoluene (FID)	GC05	G	03/10/06 00:29
185408-003	Bromofluorobenzene (FID)	GC05	G	03/10/06 00:29
185408-004	Gasoline C7-C12	GC05	G	03/10/06 01:00
185408-004	Trifluorotoluene (FID)	GC05	G	03/10/06 01:00
185408-004	Bromofluorobenzene (FID)	GC05	G	03/10/06 01:00
185408-005	Gasoline C7-C12	GC05	G	03/10/06 04:39
185408-005	Trifluorotoluene (FID)	GC05	G	03/10/06 04:39
185408-005	Bromofluorobenzene (FID)	GC05	G	03/10/06 04:39
185408-008	Gasoline C7-C12	GC05	G	03/10/06 05:11
185408-008	Trifluorotoluene (FID)	GC05	G	03/10/06 05:11
185408-008	Bromofluorobenzene (FID)	GC05	G	03/10/06 05:11
185408-009	Gasoline C7-C12	GC05	G	03/10/06 05:42
185408-009	Trifluorotoluene (FID)	GC05	G	03/10/06 05:42
185408-009	Bromofluorobenzene (FID)	GC05	G	03/10/06 05:42
185408-010	Gasoline C7-C12	GC05	G	03/10/06 06:13
185408-010	Trifluorotoluene (FID)	GC05	G	03/10/06 06:13
185408-010	Bromofluorobenzene (FID)	GC05	G	03/10/06 06:13
185408-011	Gasoline C7-C12	GC05	G	03/10/06 06:44
185408-011	Trifluorotoluene (FID)	GC05	G	03/10/06 06:44
185408-011	Bromofluorobenzene (FID)	GC05	G	03/10/06 06:44
QC330771	Gasoline C7-C12	GC05	G	03/09/06 13:18
QC330771	MTBE	GC05	H	03/09/06 13:18
QC330771	Benzene	GC05	H	03/09/06 13:18
QC330771	Toluene	GC05	H	03/09/06 13:18
QC330771	Ethylbenzene	GC05	H	03/09/06 13:18
QC330771	Trifluorotoluene (FID)	GC05	G	03/09/06 13:18
QC330771	Bromofluorobenzene (FID)	GC05	G	03/09/06 13:18
QC330771	Trifluorotoluene (PID)	GC05	H	03/09/06 13:18
QC330771	Bromofluorobenzene (PID)	GC05	H	03/09/06 13:18
QC330771	Xylene (total)	GC05	H	03/09/06 13:18

REPORTING SUMMARY FOR 185408 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC330772	MTBE	GC05	H	03/09/06 12:14
QC330772	Benzene	GC05	H	03/09/06 12:14
QC330772	Toluene	GC05	H	03/09/06 12:14
QC330772	Ethylbenzene	GC05	H	03/09/06 12:14
QC330772	Trifluorotoluene (PID)	GC05	H	03/09/06 12:14
QC330772	Bromofluorobenzene (PID)	GC05	H	03/09/06 12:14
QC330773	Gasoline C7-C12	GC05	G	03/09/06 12:46
QC330773	Trifluorotoluene (FID)	GC05	G	03/09/06 12:46
QC330773	Bromofluorobenzene (FID)	GC05	G	03/09/06 12:46
QC330849	Gasoline C7-C12	GC05	G	03/09/06 20:49
QC330849	Trifluorotoluene (FID)	GC05	G	03/09/06 20:49
QC330849	Bromofluorobenzene (FID)	GC05	G	03/09/06 20:49
QC330850	Gasoline C7-C12	GC05	G	03/09/06 21:20
QC330850	Trifluorotoluene (FID)	GC05	G	03/09/06 21:20
QC330850	Bromofluorobenzene (FID)	GC05	G	03/09/06 21:20
QC330851	Gasoline C7-C12	GC05	G	03/09/06 21:52
QC330851	Trifluorotoluene (FID)	GC05	G	03/09/06 21:52
QC330851	Bromofluorobenzene (FID)	GC05	G	03/09/06 21:52
QC330852	Gasoline C7-C12	GC05	G	03/09/06 22:23
QC330852	Trifluorotoluene (FID)	GC05	G	03/09/06 22:23
QC330852	Bromofluorobenzene (FID)	GC05	G	03/09/06 22:23
QC330853	Gasoline C7-C12	GC05	G	03/09/06 22:55
QC330853	Trifluorotoluene (FID)	GC05	G	03/09/06 22:55
QC330853	Bromofluorobenzene (FID)	GC05	G	03/09/06 22:55
QC330854	Gasoline C7-C12	GC05	G	03/09/06 23:26
QC330854	Trifluorotoluene (FID)	GC05	G	03/09/06 23:26
QC330854	Bromofluorobenzene (FID)	GC05	G	03/09/06 23:26
QC330889	MTBE	GC05	H	03/10/06 04:08
QC330889	Benzene	GC05	H	03/10/06 04:08
QC330889	Toluene	GC05	H	03/10/06 04:08
QC330889	Ethylbenzene	GC05	H	03/10/06 04:08
QC330889	Trifluorotoluene (PID)	GC05	H	03/10/06 04:08
QC330889	Bromofluorobenzene (PID)	GC05	H	03/10/06 04:08
QC330890	Gasoline C7-C12	GC05	G	03/10/06 10:53
QC330890	Trifluorotoluene (FID)	GC05	G	03/10/06 10:53
QC330890	Bromofluorobenzene (FID)	GC05	G	03/10/06 10:53
QC330891	Gasoline C7-C12	GC05	G	03/10/06 11:24
QC330891	Trifluorotoluene (FID)	GC05	G	03/10/06 11:24
QC330891	Bromofluorobenzene (FID)	GC05	G	03/10/06 11:24
QC330912	Gasoline C7-C12	GC05	G	03/10/06 11:56
QC330912	Trifluorotoluene (FID)	GC05	G	03/10/06 11:56
QC330912	Bromofluorobenzene (FID)	GC05	G	03/10/06 11:56

REPORTING SUMMARY FOR 185408 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC330913	Gasoline C7-C12	GC05	G	03/10/06 12:27
QC330913	Trifluorotoluene (FID)	GC05	G	03/10/06 12:27
QC330913	Bromofluorobenzene (FID)	GC05	G	03/10/06 12:27

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111139
Date Started: 09-MAR-2006
Batched by : Thelma Perez

Analysis : N/A
Bgroup : TVH
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185396-001			MWH	Water	TVH	14-MAR-2006
185396-002			MWH	Water	TVH	14-MAR-2006
185396-003			MWH	Water	TVH	14-MAR-2006
185396-013			MWH	Water	TVH	14-MAR-2006
185402-001			PES Environmental,	Water	BTXE, TVH	15-MAR-2006
185408-001			Treadwell & Rollo	Water	TVH	21-MAR-2006
185408-002			Treadwell & Rollo	Water	MBTXE, TVH	21-MAR-2006
185408-003			Treadwell & Rollo	Water	TVH	21-MAR-2006
185408-004			Treadwell & Rollo	Water	TVH	21-MAR-2006
185408-005			Treadwell & Rollo	Water	TVH	21-MAR-2006
185408-008			Treadwell & Rollo	Water	TVH	21-MAR-2006
185408-009			Treadwell & Rollo	Water	TVH	21-MAR-2006
185408-010			Treadwell & Rollo	Water	TVH	21-MAR-2006
185408-011			Treadwell & Rollo	Water	TVH	21-MAR-2006
185409-006			Arcadis G&M	Water	MBTXE, TVH	21-MAR-2006
185409-007			Arcadis G&M	Water	MBTXE, TVH	21-MAR-2006
185418-001			URS Corporation	Water	BTXE	13-MAR-2006
185422-001			Tetra Tech EC, Inc	Water	TVH	21-MAR-2006
185422-002			Tetra Tech EC, Inc	Water	TVH	21-MAR-2006
185422-009			Tetra Tech EC, Inc	Water	TVH	21-MAR-2006
QC330771	BLANK			Water		
QC330772	BS			Water		
QC330773	LCS			Water		
QC330849	MS	of 185408-002		Water		
QC330850	MSD	of 185408-002		Water		
QC330851	MS	of 185408-008		Water		
QC330852	MSD	of 185408-008		Water		
QC330853	MS	of 185408-010		Water		
QC330854	MSD	of 185408-010		Water		
QC330889	BSD			Water		
QC330890	MS	of 185422-002		Water		
QC330891	MSD	of 185422-002		Water		
QC330912	MS	of 185422-009		Water		
QC330913	MSD	of 185422-009		Water		

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Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water
As of 04/05/06

Analyte	Units	GC19 X	GC04 A	GC04 J	GC05 G	GC07 A
Gasoline C6-C10	ug/L	21	6.7	6.2	4.8	10
Gasoline C6-C12	ug/L	21	5.5	6.8	4.5	14
Gasoline C7-C12	ug/L	27	4.8	7.2	4.2	15
JP-4 C7-C12	ug/L	4.6		12	9.9	19
Gasoline C6-C8	ug/L					7.0
Gasoline C8-C10	ug/L					12
Trifluorotoluene (FID)	ug/L		3.9			9.8
Bromofluorobenzene (FID)	ug/L		5.2			7.5

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8021B Water
As of 04/05/06

Analyte	Units	GC19 Y	GC19 Z	GC04 K	GC04 L	GC05 H	GC05 I	GC07 B	GC07 C
MTBE	ug/L	0.49	0.18	0.45	0.83	0.30	0.62	0.35	0.23
Benzene	ug/L	0.073	0.033	0.094	0.16	0.034	0.057	0.23	0.035
Toluene	ug/L	0.13	0.025	0.14	0.11	0.048	0.15	0.069	0.024
Ethylbenzene	ug/L	0.14	0.024	0.038	0.12	0.036	0.17	0.084	0.056
m,p-Xylenes	ug/L	0.13	0.039	0.10	0.21	0.030	0.17	0.090	0.027
o-Xylene	ug/L	0.15	0.015	0.12	0.10	0.083	0.19	0.13	0.040

TOTAL EXTRACTABLE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/08/06
Units:	ug/L	Received:	03/09/06
Diln Fac:	1.000	Prepared:	03/15/06
Batch#:	111348		

Field ID: 600GW106 Analyzed: 03/17/06
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 185408-001

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	97	65-135

Field ID: 600GW101 Analyzed: 03/20/06
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 185408-002

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	86	65-135

Field ID: 600GW105 Analyzed: 03/17/06
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 185408-003

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	98	65-135

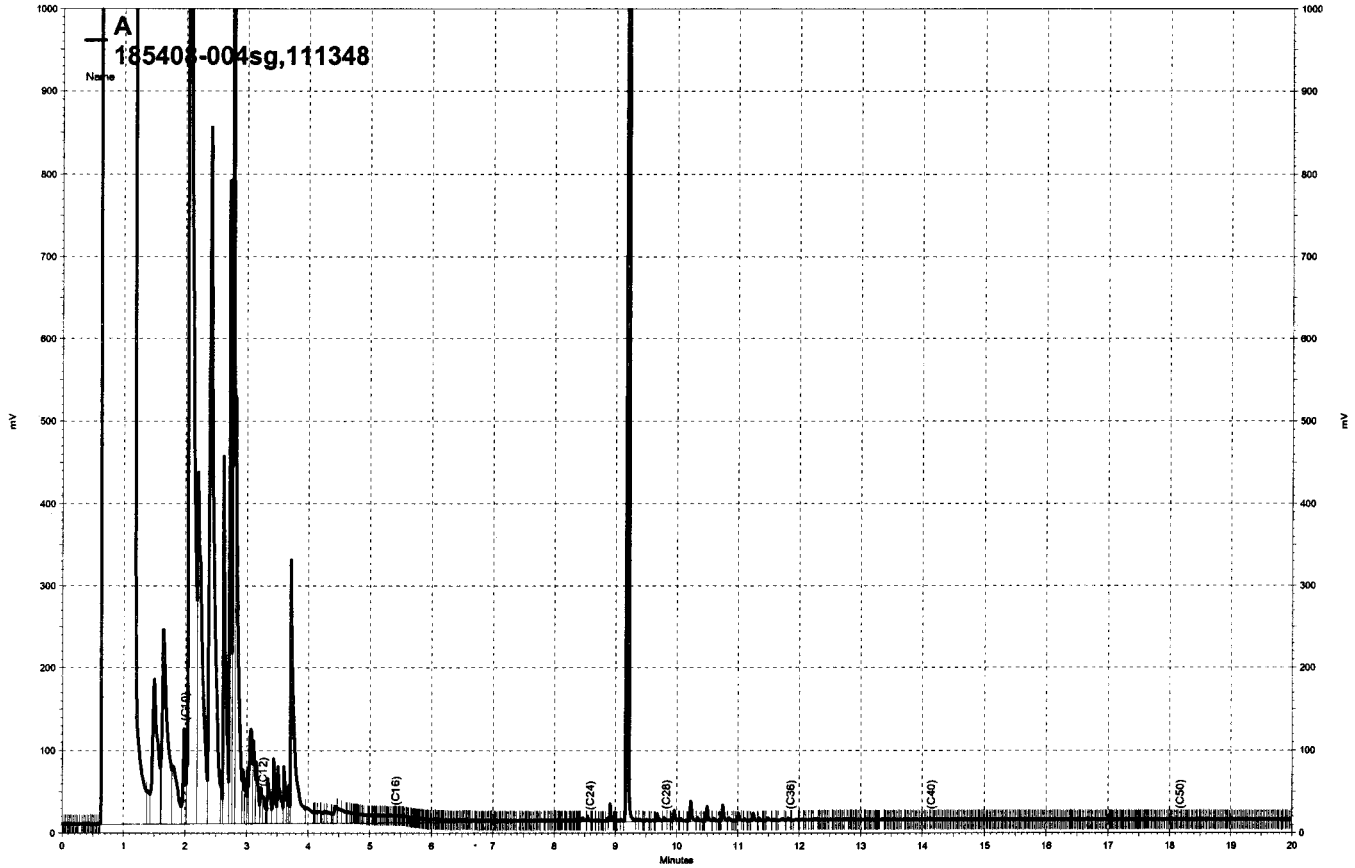
Field ID: 231GW21 Analyzed: 03/17/06
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 185408-004

Analyte	Result	RL
Diesel C12-C24	330 L Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	99	65-135

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

231GW21



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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/08/06
Units:	ug/L	Received:	03/09/06
Diln Fac:	1.000	Prepared:	03/15/06
Batch#:	111348		

Field ID: DUP0308061A
Type: SAMPLE
Lab ID: 185408-005

Analyzed: 03/18/06
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C12-C24	1,300 H L Y	50
Motor Oil C24-C36	5,400	300

Surrogate	%REC	Limits
Hexacosane	98	65-135

Field ID: DAESP03
Type: SAMPLE
Lab ID: 185408-008

Analyzed: 03/20/06
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C12-C24	55 Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	88	65-135

Field ID: DUP0308063A
Type: SAMPLE
Lab ID: 185408-009

Analyzed: 03/18/06
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C12-C24	63 Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	98	65-135

Field ID: BB3SW104
Type: SAMPLE
Lab ID: 185408-010

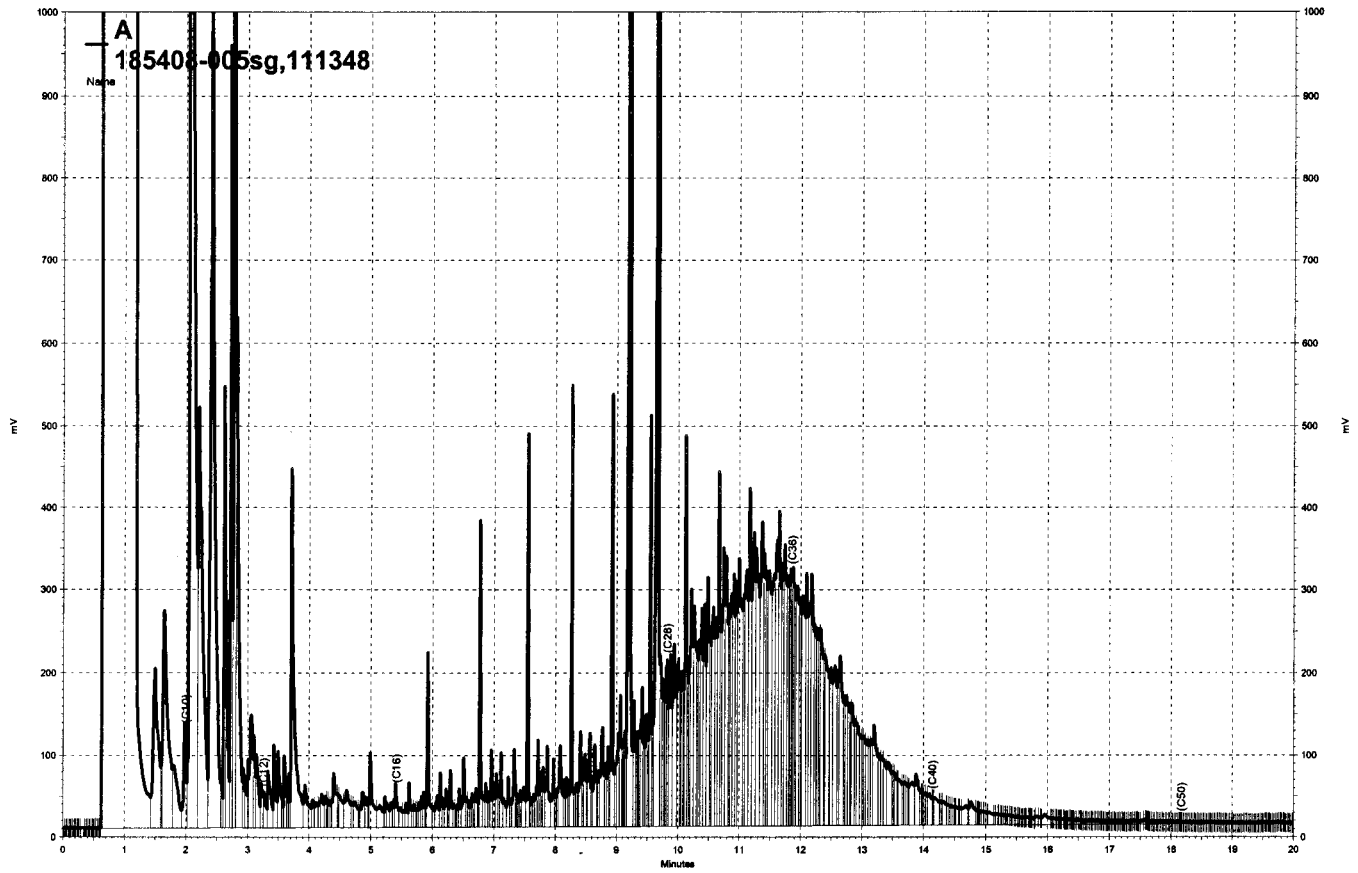
Analyzed: 03/20/06
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	98	65-135

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

DUP0308061A



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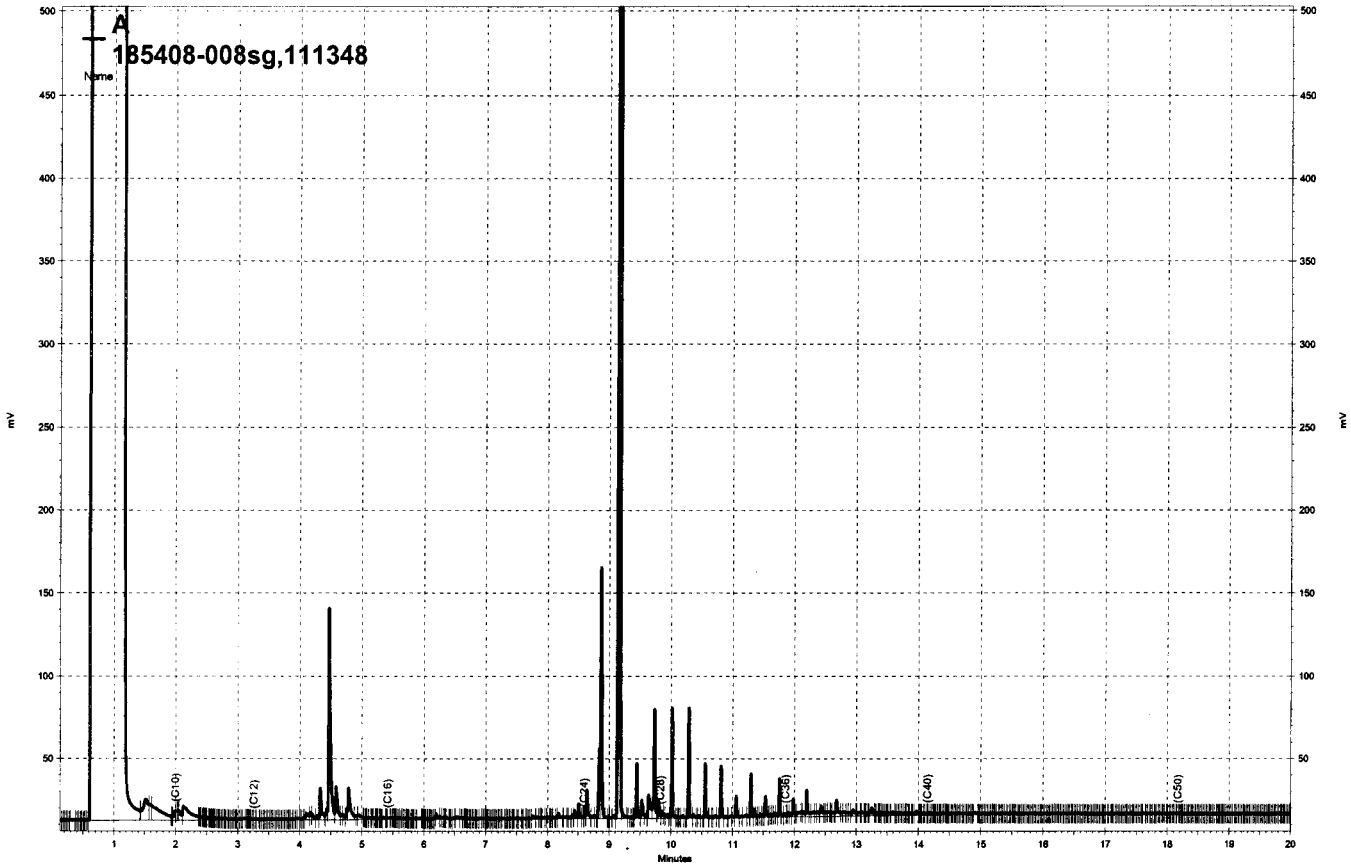
DAESP03



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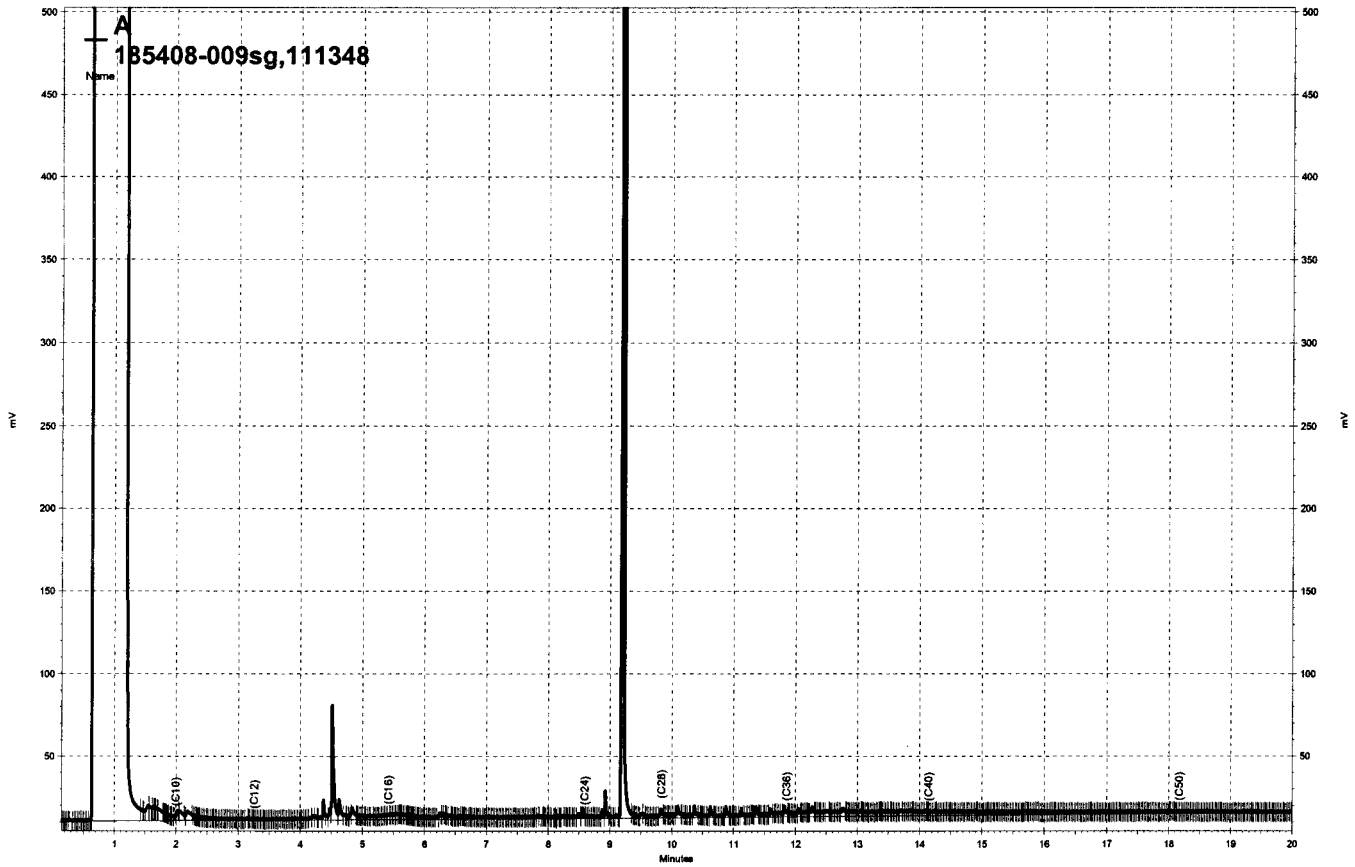
DUP0308063A



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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/08/06
Units:	ug/L	Received:	03/09/06
Diln Fac:	1.000	Prepared:	03/15/06
Batch#:	111348		

Field ID:	DUP0308063B	Analyzed:	03/18/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	185408-011		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	90	65-135

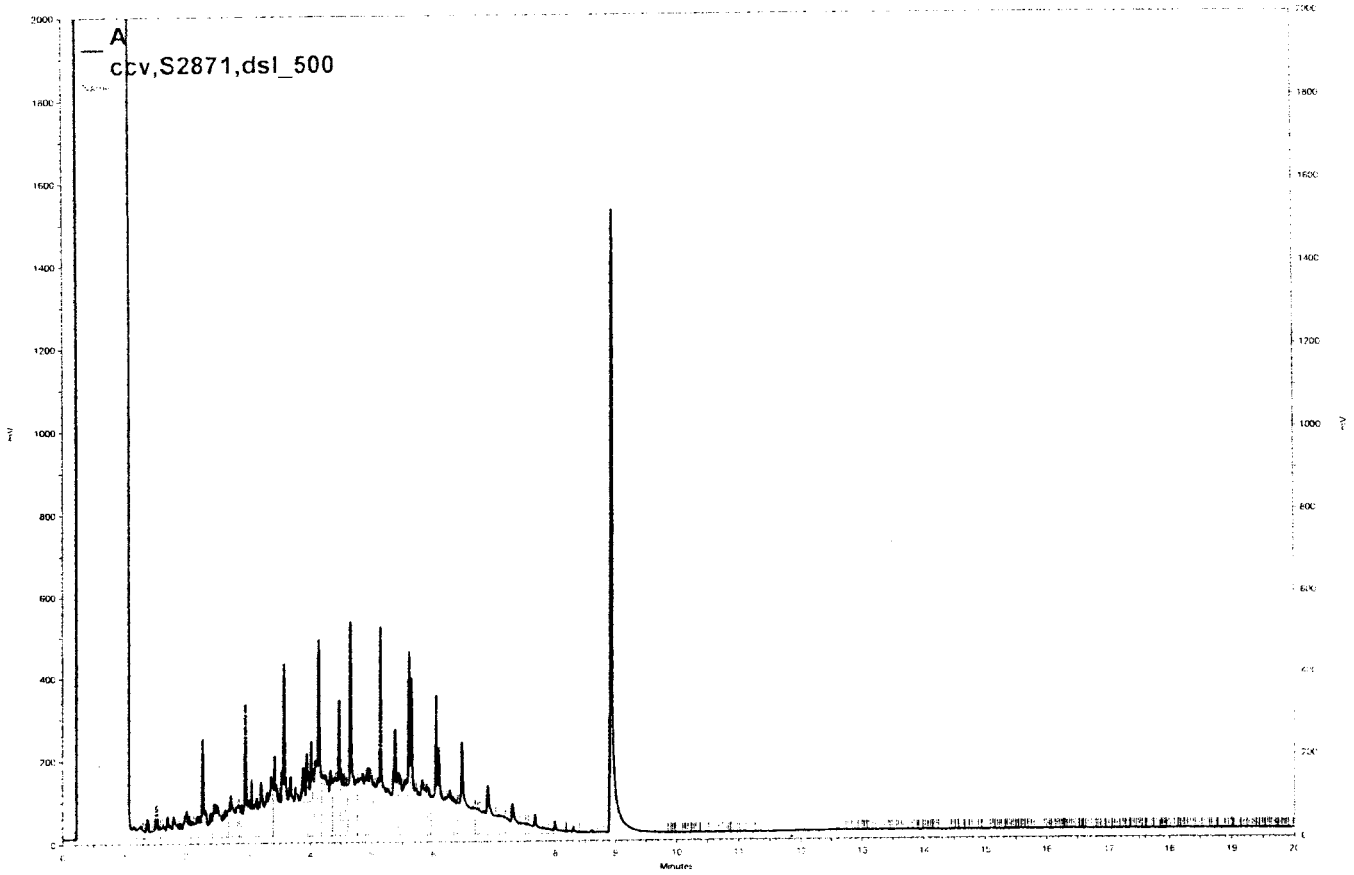
Type:	BLANK	Analyzed:	03/16/06
Lab ID:	QC331673	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	92	65-135

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Diesel



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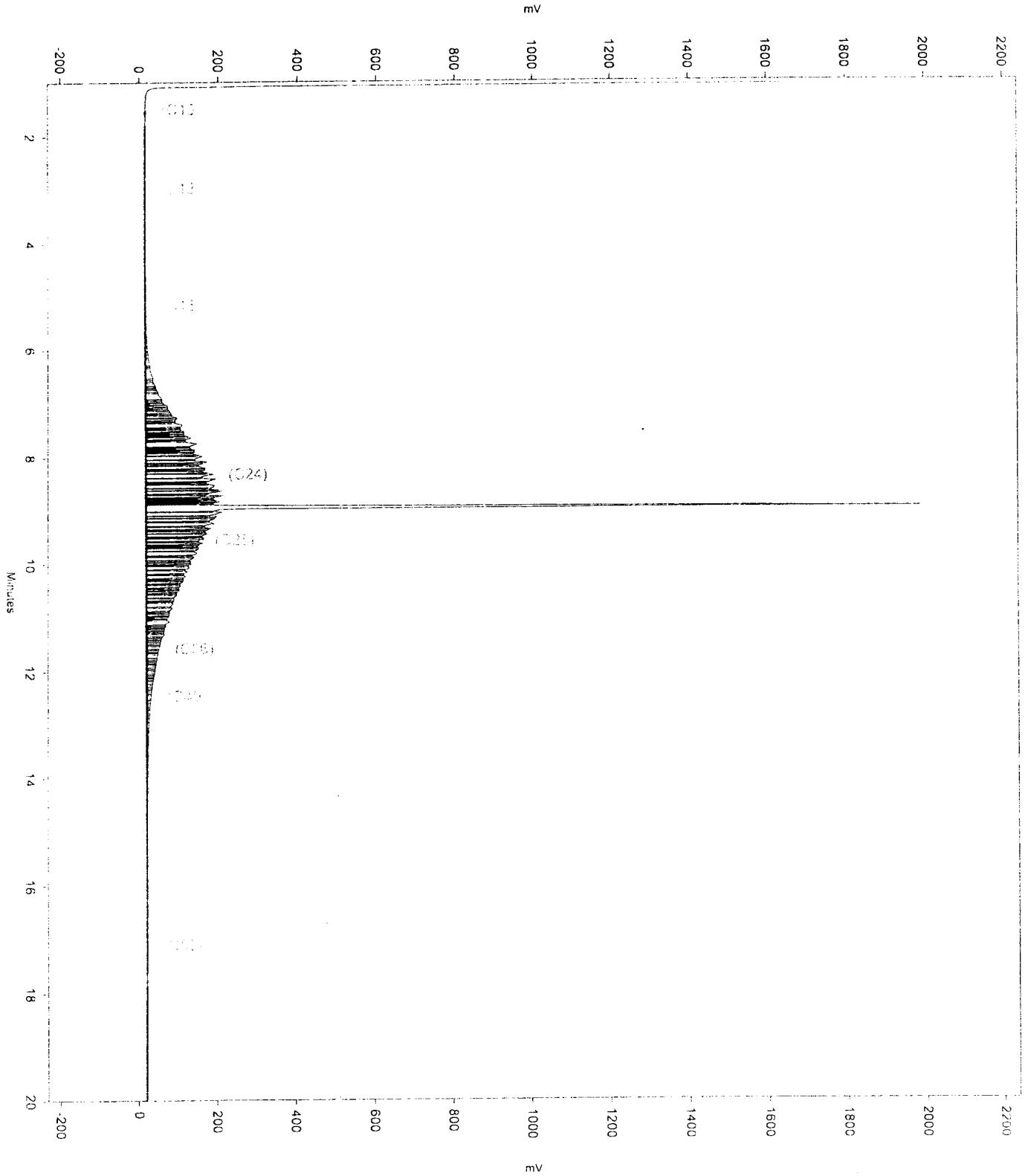
Curtis & Tompkins Ltd. Motor Oil

Sample Name: **ccv,S2843,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\075a004**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\075.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh072.met
Run Date: 3/16/2006 10:49:01 AM
Analysis Date: 3/16/2006 11:54:00 AM
Instrument: GC11A (Offline) Vial: 4 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1



Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331674	Batch#:	111348
Matrix:	Water	Prepared:	03/15/06
Units:	ug/L	Analyzed:	03/16/06

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	2,500	2,291	92	65-135

Surrogate	%REC	Limits
Hexacosane	91	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	600GW101	Batch#:	111348
MSS Lab ID:	185408-002	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Prepared:	03/15/06
Diln Fac:	1.000	Analyzed:	03/23/06

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC331675

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	<32.78	2,500	2,372	95	65-135

Surrogate	%REC	Limits
Hexacosane	94	65-135

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC331676

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,451	98	65-135	3	35

Surrogate	%REC	Limits
Hexacosane	95	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	DAESP03	Batch#:	111348
MSS Lab ID:	185408-008	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Prepared:	03/15/06
Diln Fac:	1.000	Analyzed:	03/23/06

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC331677

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	55.42	2,500	2,248	88	65-135

Surrogate	%REC	Limits
Hexacosane	96	65-135

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC331678

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,142	83	65-135	5	35

Surrogate	%REC	Limits
Hexacosane	108	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	BB3SW104	Batch#:	111348
MSS Lab ID:	185408-010	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Prepared:	03/15/06
Diln Fac:	1.000	Analyzed:	03/23/06

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC331679

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	<32.78	2,500	2,805	112	65-135

Surrogate	%REC	Limits
Hexacosane	123	65-135

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC331680

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,577	103	65-135	8	35

Surrogate	%REC	Limits
Hexacosane	114	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	111348
MSS Lab ID:	185525-002	Sampled:	03/14/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Prepared:	03/15/06
Diln Fac:	1.000	Analyzed:	03/23/06

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC331681

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	<32.78	2,500	2,308	92	65-135

Surrogate	%REC	Limits
Hexacosane	104	65-135

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC331682

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,489	100	65-135	8	35

Surrogate	%REC	Limits
Hexacosane	108	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185408 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 115446255002
Units : mg/L

Name : DIESEL
Date : 05-NOV-2005 23:53
X Axis : R

Reviewer: RH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	309a011	115446255011	dsl_10	05-NOV-2005 23:53	S1732
L2	309a013	115446255013	dsl_250	06-NOV-2005 00:49	S1734
L3	309a014	115446255014	dsl_500	06-NOV-2005 01:17	S1735
L4	309a015	115446255015	dsl_1000	06-NOV-2005 01:45	S1736
L5	309a016	115446255016	dsl_2500	06-NOV-2005 02:12	S1737
L6	309a017	115446255017	dsl_5000	06-NOV-2005 02:40	S1731
L7	309a039	115446255039	dsl_100	06-NOV-2005 22:23	S1733

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	66564	67471	67989	68804	69120	69411	70464	AVRG		1.46E-5		68546	2	0.995	20	

72

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

115446255002

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185408 GCSV Water
EPA 8015B

Inst : GC11A
Calnum : 115446255002

Name : DIESEL
Cal Date: 05-NOV-2005

ICV 115446255040 (309a040 06-NOV-2005) stds: S1178

Analyte	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	500.0	498.6	mg/L	0	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185408 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 116049801004
Units : mg/L

Date : 04-FEB-2006 00:18
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	034a023	116049801023	mo_50	04-FEB-2006 00:18	S2118
L2	034a024	116049801024	mo_250	04-FEB-2006 00:46	S2119
L3	034a025	116049801025	mo_500	04-FEB-2006 01:14	S2120
L4	034a026	116049801026	mo_1000	04-FEB-2006 01:42	S2121
L5	034a027	116049801027	mo_2500	04-FEB-2006 02:10	S2122
L6	034a028	116049801028	mo_5000	04-FEB-2006 02:39	S2117

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	40103	42997	43448	44594	44247	45696	AVRG		2.30E-5		43514	4	0.995	20	

74

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

116049801004

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185408 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 115446255001
Units : mg/L

Name : Hexacosane
Date : 05-NOV-2005 21:35
X Axis : R

Reviewer: RH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	309a006	115446255006	hex_5	05-NOV-2005 21:35	S1469
L2	309a007	115446255007	hex_10	05-NOV-2005 22:02	S1470
L3	309a008	115446255008	hex_25	05-NOV-2005 22:30	S1471
L4	309a009	115446255009	hex_50	05-NOV-2005 22:58	S1472
L5	309a010	115446255010	hex_75	05-NOV-2005 23:25	S1473

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	78300	78621	78154	81971	77951	AVRG		1.27E-5		78999	2	0.995	20	

75

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185408 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166117087001
Units : mg/L

Date : 22-MAR-2006 12:39
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	081b006	166117087006	dsl_10	22-MAR-2006 12:39	S2961
L2	081b007	166117087007	dsl_100	22-MAR-2006 13:07	S2938
L3	081b008	166117087008	dsl_250	22-MAR-2006 13:34	S2939
L4	081b009	166117087009	dsl_500	22-MAR-2006 14:02	S2940
L5	081b010	166117087010	dsl_1000	22-MAR-2006 14:30	S2941
L6	081b011	166117087011	dsl_2500	22-MAR-2006 14:57	S2942
L7	081b012	166117087012	dsl_5000	22-MAR-2006 15:25	S2936

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	60107	59785	55253	54313	53973	54874	53381	AVRG		1.79E-5		55955	5	0.995	20	

76

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

166117087001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185408 GCSV Water
EPA 8015B

Inst : GC15B
Calnum : 166117087001 Cal Date: 22-MAR-2006

ICV 166117087014 (081b014 22-MAR-2006) stds: S2708

Analyte	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	500.0	480.4	mg/L	-4	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185408 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166114247001
Units : mg/L

Date : 20-MAR-2006 14:52
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	079b007	166114247007	hex_5	20-MAR-2006 14:52	S2694
L2	079b008	166114247008	hex_10	20-MAR-2006 15:20	S2695
L3	079b009	166114247009	hex_25	20-MAR-2006 15:49	S2696
L4	079b010	166114247010	hex_50	20-MAR-2006 16:17	S2697
L5	079b011	166114247011	hex_75	20-MAR-2006 16:45	S2698

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	64028	62636	61750	60993	60763	AVRG		1.61E-5		62034	2	0.995	20	

78

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

166114247001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185408 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176085452001
Units : mg/L

Date : 01-MAR-2006 07:43
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	059a013	176085452013	dsl_50	01-MAR-2006 07:43	S1732
L2	059a014	176085452014	dsl_100	01-MAR-2006 08:10	S1733
L3	059a015	176085452015	dsl_250	01-MAR-2006 08:37	S1734
L4	059a016	176085452016	dsl_500	01-MAR-2006 09:04	S1735
L5	059a017	176085452017	dsl_1000	01-MAR-2006 09:32	S1736
L6	059a018	176085452018	dsl_2500	01-MAR-2006 10:00	S1737
L7	059a019	176085452019	dsl_5000	01-MAR-2006 10:27	S1731

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	55630	52210	52572	55087	56497	58583	60304	AVRG		1.79E-5		55841	5	0.995	20	

79

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185408 GCSV Water
EPA 8015B

Inst : GC17A
Calnum : 176085452001 Cal Date: 01-MAR-2006

ICV 176085452021 (059a021 01-MAR-2006) stds: S2708

Analyte	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	500.0	454.9	mg/L	-9	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185408 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176093018001
Units : mg/L

Date : 05-MAR-2006 18:11
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	064a007	176093018007	mo_50	05-MAR-2006 18:11	S2118
L2	064a008	176093018008	mo_250	05-MAR-2006 18:38	S2119
L3	064a009	176093018009	mo_500	05-MAR-2006 19:05	S2120
L4	064a010	176093018010	mo_1000	05-MAR-2006 19:32	S2121
L5	064a011	176093018011	mo_2500	05-MAR-2006 20:00	S2122
L6	064a012	176093018012	mo_5000	05-MAR-2006 20:27	S2117

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	35446	41492	40972	42562	41512	41334	AVRG		2.47E-5		40553	6	0.995	20	

81

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

176093018001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185408 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176098515001
Units : mg/L

Name : hexagc17cal
Date : 09-MAR-2006 19:42
X Axis : R

Reviewer: CW
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	068a015	176098515015	hex_5	09-MAR-2006 19:42	S2694
L2	068a016	176098515016	hex_10	09-MAR-2006 20:09	S2695
L3	068a017	176098515017	hex_25	09-MAR-2006 20:37	S2696
L4	068a018	176098515018	hex_50	09-MAR-2006 21:04	S2697
L5	068a019	176098515019	hex_75	09-MAR-2006 21:31	S2698

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	81036	80318	79162	79599	78325	AVRG		1.25E-5		79688	1	0.995	20	

82

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116108479003	16-MAR-2006 10:21	115446255002	05-NOV-2005	68546	63203	500.00	461.02	mg/L	-8	15	
GC11A	A	116108479011	16-MAR-2006 14:07	115446255002	05-NOV-2005	68546	60897	1000.0	888.40	mg/L	-11	15	
GC11A	A	116117499043	23-MAR-2006 11:22	115446255002	05-NOV-2005	68546	62153	1000.0	906.73	mg/L	-9	15	
GC11A	A	116117499058	23-MAR-2006 19:30	115446255002	05-NOV-2005	68546	63163	1000.0	921.46	mg/L	-8	15	
GC15B	B	166118528011	23-MAR-2006 13:31	166117087001	22-MAR-2006	55955	53651	1000.0	958.82	mg/L	-4	15	
GC15B	B	166118528026	23-MAR-2006 21:09	166117087001	22-MAR-2006	55955	48492	250.00	216.66	mg/L	-13	15	
GC17A	A	176109909025	17-MAR-2006 21:11	176085452001	01-MAR-2006	55841	61181	1000.0	1095.6	mg/L	10	15	
GC17A	A	176109909039	18-MAR-2006 03:34	176085452001	01-MAR-2006	55841	63248	500.00	566.33	mg/L	13	15	
GC17A	A	176114438014	20-MAR-2006 17:20	176085452001	01-MAR-2006	55841	58510	1000.0	1047.8	mg/L	5	15	
GC17A	A	176114438030	21-MAR-2006 00:52	176085452001	01-MAR-2006	55841	60507	250.00	270.89	mg/L	8	15	

CONTINUING CALIBRATION SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116108479004	16-MAR-2006 10:49	116049801004	04-FEB-2006	43514	42757	500.00	491.30	mg/L	-2	15	
GC11A	A	116108479010	16-MAR-2006 13:39	116049801004	04-FEB-2006	43514	42791	500.00	491.69	mg/L	-2	15	
GC17A	A	176109909026	17-MAR-2006 21:38	176093018001	05-MAR-2006	40553	45899	500.00	565.91	mg/L	13	15	
GC17A	A	176109909040	18-MAR-2006 04:01	176093018001	05-MAR-2006	40553	45531	500.00	561.37	mg/L	12	15	
GC17A	A	176114438015	20-MAR-2006 17:48	176093018001	05-MAR-2006	40553	45310	500.00	558.65	mg/L	12	15	
GC17A	A	176114438031	21-MAR-2006 01:19	176093018001	05-MAR-2006	40553	46333	500.00	571.26	mg/L	14	15	

CONTINUING CALIBRATION SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116108479003	16-MAR-2006 10:21	115446255001	05-NOV-2005	78999	72304	50.000	45.762	mg/L	-8	15	
GC11A	A	116108479010	16-MAR-2006 13:39	115446255001	05-NOV-2005	78999	69698	50.000	44.113	mg/L	-12	15	
GC11A	A	116117499042	23-MAR-2006 10:41	115446255001	05-NOV-2005	78999	70440	50.000	44.583	mg/L	-11	15	
GC11A	A	116117499057	23-MAR-2006 19:02	115446255001	05-NOV-2005	78999	69261	50.000	43.836	mg/L	-12	15	
GC15B	B	166118528011	23-MAR-2006 13:31	166114247001	20-MAR-2006	62034	58497	50.000	47.149	mg/L	-6	15	
GC15B	B	166118528021	23-MAR-2006 18:49	166114247001	20-MAR-2006	62034	64839	50.000	52.261	mg/L	5	15	
GC17A	A	176109909025	17-MAR-2006 21:11	176098515001	09-MAR-2006	79688	68908	50.000	43.236	mg/L	-14	15	
GC17A	A	176109909039	18-MAR-2006 03:34	176098515001	09-MAR-2006	79688	77613	50.000	48.698	mg/L	-3	15	
GC17A	A	176114438014	20-MAR-2006 17:20	176098515001	09-MAR-2006	79688	68318	50.000	42.866	mg/L	-14	15	
GC17A	A	176114438030	21-MAR-2006 00:52	176098515001	09-MAR-2006	79688	84142	50.000	52.795	mg/L	6	15	

SEQUENCE SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 115446255 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 05-NOV-2005
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
003	309a003	X	c12-60			05-NOV-2005 20:11	1.0						
004	309a004	X	c50			05-NOV-2005 20:39	1.0						
005	309a005	X	ib			05-NOV-2005 21:07	1.0						
006	309a006	ICAL	hex_5			05-NOV-2005 21:35	1.0					1	
007	309a007	ICAL	hex_10			05-NOV-2005 22:02	1.0					2	
008	309a008	ICAL	hex_25			05-NOV-2005 22:30	1.0					3	
009	309a009	ICAL	hex_50			05-NOV-2005 22:58	1.0					4	
010	309a010	ICAL	hex_75			05-NOV-2005 23:25	1.0					5	
011	309a011	ICAL	dsl_10			05-NOV-2005 23:53	1.0					6	
013	309a013	ICAL	dsl_250			06-NOV-2005 00:49	1.0					7	
014	309a014	ICAL	dsl_500			06-NOV-2005 01:17	1.0					8	
015	309a015	ICAL	dsl_1000			06-NOV-2005 01:45	1.0					9	
016	309a016	ICAL	dsl_2500			06-NOV-2005 02:12	1.0					10	
017	309a017	ICAL	dsl_5000			06-NOV-2005 02:40	1.0					11	
039	309a039	ICAL	dsl_100			06-NOV-2005 22:23	1.0					12	86
040	309a040	ICV	dsl			06-NOV-2005 23:18	1.0		3			13	
041	309a041	ICAL	mo_50			06-NOV-2005 23:46	1.0					14	
042	309a042	ICAL	mo_250			07-NOV-2005 00:14	1.0					15	
043	309a043	ICAL	mo_500			07-NOV-2005 00:42	1.0					16	
044	309a044	ICAL	mo_1000			07-NOV-2005 01:10	1.0					17	
045	309a045	ICAL	mo_2500			07-NOV-2005 01:38	1.0					18	
046	309a046	ICAL	mo_5000			07-NOV-2005 02:06	1.0					19	

Stds used: 1=S1469 2=S1470 3=S1471 4=S1472 5=S1473 6=S1732 7=S1734 8=S1735 9=S1736 10=S1737 11=S1731 12=S1733 13=S1178 14=S693 15=S694 16=S695 17=S696 18=S697 19=S691

SEQUENCE SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116049801 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 03-FEB-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	034a001	X	primer			03-FEB-2006 14:01	1.0							
002	034a002	X	ib			03-FEB-2006 14:29	1.0							
003	034a003	CCV	dsl_250			03-FEB-2006 14:57	1.0			3			1	
004	034a004	X	ib			03-FEB-2006 15:25	1.0							
005	034a005	CCV	mo_500			03-FEB-2006 15:53	1.0	6		3			2	
006	034a006	?SAMPLE	184620-007			03-FEB-2006 16:21	1.0							
007	034a007	?SAMPLE	184620-008			03-FEB-2006 16:49	1.0							
008	034a008	?SAMPLE	184620-009			03-FEB-2006 17:17	1.0							
009	034a009	?SAMPLE	184620-010			03-FEB-2006 17:45	1.0							
010	034a010	X	ib			03-FEB-2006 18:13	1.0							
011	034a011	?SAMPLE	184620-006			03-FEB-2006 18:41	1.0							
012	034a012	?SAMPLE	184620-004			03-FEB-2006 19:09	1.0							
013	034a013	?SAMPLE	184620-005			03-FEB-2006 19:37	1.0							
014	034a014	X	ib			03-FEB-2006 20:05	1.0							
015	034a015	?SAMPLE	184620-001			03-FEB-2006 20:33	1.0							87
016	034a016	?SAMPLE	184620-002			03-FEB-2006 21:01	1.0							
017	034a017	?SAMPLE	184620-003			03-FEB-2006 21:29	1.0							
018	034a018	X	ib			03-FEB-2006 21:57	1.0							
019	034a019	CCV	dsl_500			03-FEB-2006 22:25	1.0						3	
020	034a020	X	ib			03-FEB-2006 22:54	1.0							
021	034a021	X	ib			03-FEB-2006 23:22	1.0							
022	034a022	X	ib			03-FEB-2006 23:50	1.0							
023	034a023	ICAL	mo_50			04-FEB-2006 00:18	1.0						4	
024	034a024	ICAL	mo_250			04-FEB-2006 00:46	1.0						5	
025	034a025	ICAL	mo_500			04-FEB-2006 01:14	1.0						6	
026	034a026	ICAL	mo_1000			04-FEB-2006 01:42	1.0						7	
027	034a027	ICAL	mo_2500			04-FEB-2006 02:10	1.0						8	
028	034a028	ICAL	mo_5000			04-FEB-2006 02:39	1.0						9	
029	034a029	X	ib			04-FEB-2006 03:07	1.0							

Stds used: 1=S2505 2=S2577 3=S2504 4=S2118 5=S2119 6=S2120 7=S2121 8=S2122 9=S2117

SEQUENCE SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176085452 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 28-FEB-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	059a001	X	primer			28-FEB-2006 08:12	1.0							
002	059a002	X	primer			28-FEB-2006 11:01	1.0							
003	059a003	X	ib			28-FEB-2006 11:28	1.0							
004	059a004	CCV	S2662.dsl_50			28-FEB-2006 11:56	1.0							
005	059a005	CCV	mo_500			28-FEB-2006 12:23	1.0						1	
006	059a006	X	ccv			28-FEB-2006 14:08	1.0						1	
007	059a007	CCV	dsl_500			28-FEB-2006 16:04	1.0			3			2	
008	059a008	CCV	mo_500			28-FEB-2006 18:04	1.0	6		3			1	
009	059a009	X	ib			28-FEB-2006 22:27	1.0							
010	059a010	X	c 10-16			28-FEB-2006 22:54	20.0							
011	059a011	X	c 12-60			28-FEB-2006 23:21	1.0							
012	059a012	X	ib			01-MAR-2006 07:15	1.0							
013	059a013	ICAL	dsl_50			01-MAR-2006 07:43	1.0						3	
014	059a014	ICAL	dsl_100			01-MAR-2006 08:10	1.0						4	
015	059a015	ICAL	dsl_250			01-MAR-2006 08:37	1.0						5	88
016	059a016	ICAL	dsl_500			01-MAR-2006 09:04	1.0						6	
017	059a017	ICAL	dsl_1000			01-MAR-2006 09:32	1.0						7	
018	059a018	ICAL	dsl_2500			01-MAR-2006 10:00	1.0						8	
019	059a019	ICAL	dsl_5000			01-MAR-2006 10:27	1.0						9	
020	059a020	X	ib			01-MAR-2006 10:54	1.0							
021	059a021	ICV	dsl_500			01-MAR-2006 11:22	1.0			3			10	
022	059a022	X	dsl_500			01-MAR-2006 11:49	1.0						10	
023	059a023	X	ib			01-MAR-2006 12:16	1.0							
024	059a024	ICAL	mo_50			01-MAR-2006 12:44	1.0						11	
025	059a025	ICAL	mo_250			01-MAR-2006 13:11	1.0						12	
026	059a026	ICAL	mo_500			01-MAR-2006 13:38	1.0						13	
027	059a027	ICAL	mo_1000			01-MAR-2006 14:06	1.0						14	
028	059a028	ICAL	mo_2500			01-MAR-2006 14:33	1.0						15	
029	059a029	ICAL	mo_5000			01-MAR-2006 15:01	1.0						16	
030	059a030	X	ib			01-MAR-2006 15:28	1.0							

Stds used: 1=S2741 2=S2662 3=S1732 4=S1733 5=S1734 6=S1735 7=S1736 8=S1737 9=S1731 10=S2708 11=S2118 12=S2119 13=S2120 14=S2121 15=S2122 16=S2117 17=S2694 18=S2695 19=S2696 20=S2697 21=S2698

SEQUENCE SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176085452 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 28-FEB-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC SPK uL	VL	pH	Stds Used	>LR
031	059a031	ICAL	hex_5			01-MAR-2006 15:55	1.0				17	
032	059a032	ICAL	hex_10			01-MAR-2006 16:23	1.0				18	
033	059a033	ICAL	hex_25			01-MAR-2006 16:50	1.0				19	
034	059a034	ICAL	hex_50			01-MAR-2006 17:17	1.0				20	
035	059a035	ICAL	hex_75			01-MAR-2006 17:44	1.0				21	
036	059a036	X	ib			01-MAR-2006 18:11	1.0					

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Stds used: 1=S2741 2=S2662 3=S1732 4=S1733 5=S1734 6=S1735 7=S1736 8=S1737 9=S1731 10=S2708 11=S2118 12=S2119 13=S2120 14=S2121 15=S2122 16=S2117 17=S2694 18=S2695 19=S2696 20=S2697 21=S2698

SEQUENCE SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176093018 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 05-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	064a001	X	primer			05-MAR-2006 14:18	1.0					
002	064a002	X	ib			05-MAR-2006 14:45	1.0					
003	064a003	CCV	dsl_500			05-MAR-2006 15:13	1.0	1.0		3	1	
004	064a004	CCV	mo_500			05-MAR-2006 15:40	1.0	1.0	5	3	2	
005	064a005	CCV	bunk_1250			05-MAR-2006 16:07	1.0	1.0		3	3	
006	064a006	CCV	mo_500			05-MAR-2006 17:21	1.0	1.0	4	3	4	
007	064a007	ICAL	mo_50			05-MAR-2006 18:11	1.0	1.0			5	
008	064a008	ICAL	mo_250			05-MAR-2006 18:38	1.0	1.0			6	
009	064a009	ICAL	mo_500			05-MAR-2006 19:05	1.0	1.0			7	
010	064a010	ICAL	mo_1000			05-MAR-2006 19:32	1.0	1.0			8	
011	064a011	ICAL	mo_2500			05-MAR-2006 20:00	1.0	1.0			9	
012	064a012	ICAL	mo_5000			05-MAR-2006 20:27	1.0	1.0			10	
013	064a013	X	ib			05-MAR-2006 20:54	1.0					
014	064a014	X	ib			05-MAR-2006 21:21	1.0					
015	064a015	CCV	dsl_1000			05-MAR-2006 21:48	1.0				11	90
016	064a016	CCV	mo_500			05-MAR-2006 22:16	1.0				4	
017	064a017	CCV	bunk_1250			05-MAR-2006 22:43	1.0				3	
018	064a018	X	xccv			05-MAR-2006 23:10	1.0				11	
019	064a019	BLANK	QC329822 S	110900	Water	05-MAR-2006 23:38	1.0					
020	064a020	BLANK	QC329951 S	110935	Soil	06-MAR-2006 00:05	1.0					
021	064a021	BLANK	QC330003 S	110946	Soil	06-MAR-2006 00:32	1.0					
022	064a022	LCS	QC329823 S	110900	Water	06-MAR-2006 00:59	1.0					
023	064a023	LCS	QC329952 S	110935	Soil	06-MAR-2006 01:27	1.0					
024	064a024	LCS	QC330004 S	110946	Soil	06-MAR-2006 01:55	1.0					
025	064a025	MS	QC329824	110900	Water	06-MAR-2006 02:22	1.0					
026	064a026	MSD	QC329825	110900	Water	06-MAR-2006 02:50	1.0					
027	064a027	MS	QC330005 S	110946	Soil	06-MAR-2006 03:17	2.0					
028	064a028	MSD	QC330006 S	110946	Soil	06-MAR-2006 03:44	2.0					
029	064a029	X	ib			06-MAR-2006 04:11	1.0					
030	064a030	CCV	dsl_250			06-MAR-2006 04:39	1.0				12	
031	064a031	CCV	mo_500			06-MAR-2006 05:06	1.0				4	

Stds used: 1=S2662 2=S2741 3=S2401 4=S2843 5=S2118 6=S2119 7=S2120 8=S2121 9=S2122 10=S2117 11=S2647 12=S2755

SEQUENCE SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176093018 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 05-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	064a032	CCV	bunk_1250			06-MAR-2006 05:33	1.0				3	
033	064a033	X	xccv			06-MAR-2006 06:00	1.0				12	
034	064a034	SAMPLE	185049-005	110845	Water	06-MAR-2006 06:28	1.0					
035	064a035	SAMPLE	185057-001	110845	Water	06-MAR-2006 06:55	1.0					
036	064a036	SAMPLE	185021-004	110845	Water	06-MAR-2006 07:33	1.0					
037	064a037	SAMPLE	185096-003	110851	Water	06-MAR-2006 08:01	1.0					
038	064a038	?SAMPLE	185095-003	110851		06-MAR-2006 08:28	1.0					
039	064a039	MSS	185082-015 S	110946	Soil	06-MAR-2006 08:56	2.0	0.1008	5	3		
040	064a040	?MS	QC329951	110935		06-MAR-2006 09:23	2.0					
041	064a041	?MSD	QC329952	110935		06-MAR-2006 09:50	2.0					
042	064a042	MS	QC329764	110886	Soil	06-MAR-2006 10:18	5.0					
043	064a043	?MSD	QC329764	110886		06-MAR-2006 10:45	5.0					
044	064a044	X	ib			06-MAR-2006 11:12	1.0					
045	064a045	X	ib			06-MAR-2006 11:40	1.0					
046	064a046	CCV	dsl_500			06-MAR-2006 12:07	1.0				2	91
047	064a047	CCV	mo_500			06-MAR-2006 12:35	1.0				4	
048	064a048	CCV	bunk_1250			06-MAR-2006 13:02	1.0				3	
049	064a049	X	xccv			06-MAR-2006 13:29	1.0				2	

Stds used: 1=S2662 2=S2741 3=S2401 4=S2843 5=S2118 6=S2119 7=S2120 8=S2121 9=S2122 10=S2117 11=S2647 12=S2755

SEQUENCE SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176098515 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 09-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	068a001	X	ib			09-MAR-2006 09:55	1.0					
002	068a002	?SAMPLE	185382-001			09-MAR-2006 10:22	10.0					
003	068a003	?SAMPLE	185382-002			09-MAR-2006 10:49	10.0					
004	068a004	?SAMPLE	185382-003			09-MAR-2006 11:17	10.0					
005	068a005	?SAMPLE	185382-004			09-MAR-2006 11:44	10.0					
006	068a006	?SAMPLE	185382-005			09-MAR-2006 12:12	10.0					
007	068a007	X	ib			09-MAR-2006 12:39	1.0					
008	068a008	X	mb fingerpri			09-MAR-2006 13:06	1.0					
009	068a009	CCV	jet_250			09-MAR-2006 13:34	1.0				1	
010	068a010	X	ib			09-MAR-2006 16:37	1.0					
011	068a011	CCV	dsl_500			09-MAR-2006 17:05	1.0	1.0		3	2	
012	068a012	CCV	mo_500			09-MAR-2006 17:32	1.0	1.0	2	3	3	
013	068a013	CCV	bunk_1250			09-MAR-2006 18:23	1.0	1.0		3	4	
014	068a014	X	ib			09-MAR-2006 19:15	1.0					
015	068a015	ICAL	hex_5			09-MAR-2006 19:42	1.0	1.0			5	92
016	068a016	ICAL	hex_10			09-MAR-2006 20:09	1.0	1.0			6	
017	068a017	ICAL	hex_25			09-MAR-2006 20:37	1.0	1.0			7	
018	068a018	ICAL	hex_50			09-MAR-2006 21:04	1.0	1.0			8	
019	068a019	ICAL	hex_75			09-MAR-2006 21:31	1.0	1.0			9	
020	068a020	X	ib			09-MAR-2006 21:59	1.0					
021	068a021	CCV	dsl_1000			09-MAR-2006 22:26	1.0	1.0		3	10	
022	068a022	CCV	mo_500			09-MAR-2006 22:53	1.0	1.0	2	3	3	
023	068a023	X	dsl_1000			09-MAR-2006 23:20	1.0				10	
024	068a024	CCV	bunk_1250			09-MAR-2006 23:48	1.0	1.0		3	4	
025	068a025	SAMPLE	185247-003 S	111034	Water	10-MAR-2006 00:15	1.0	0.005		3		
026	068a026	SAMPLE	185271-008 S	111034	Water	10-MAR-2006 00:42	1.0	0.005		3		
027	068a027	SAMPLE	185334-001 S	111055	Water	10-MAR-2006 01:10	1.0	0.005		3		
028	068a028	SAMPLE	185271-009 S	111034	Water	10-MAR-2006 01:37	1.0	0.005		3		
029	068a029	SAMPLE	185271-010 S	111034	Water	10-MAR-2006 02:04	1.0	0.005		3		
030	068a030	SAMPLE	185350-001 S	111055	Water	10-MAR-2006 02:31	1.0	0.005		3		
031	068a031	SAMPLE	185333-014 S	111062	Soil	10-MAR-2006 02:58	1.0	0.1000		3		

Stds used: 1=S2432 2=S2871 3=S2741 4=S2872 5=S2694 6=S2695 7=S2696 8=S2697 9=S2698 10=S2885 11=S2755 12=S2843

SEQUENCE SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176098515 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 09-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used >LR
032	068a032	SAMPLE	185247-005 S	111034	Water	10-MAR-2006 03:25	1.0	0.005	2	1	3	17:BUNKC:=50672.4
033	068a033	MS	QC330414 S	111050	Soil	10-MAR-2006 03:52	1.0	0.1009		1	3	3:BUNKC:=7224.34
034	068a034	MSD	QC330415 S	111050	Soil	10-MAR-2006 04:20	1.0	0.1001			3	1:BUNKC:=5003.11
035	068a035	CCV	dsl_250			10-MAR-2006 04:47	1.0	1.0			3	11
036	068a036	CCV	mo_500			10-MAR-2006 05:14	1.0	1.0	2		3	3
037	068a037	X	xccv			10-MAR-2006 05:42	1.0					11
038	068a038	CCV	bunk_1250			10-MAR-2006 06:09	1.0	1.0			3	4
039	068a039	SAMPLE	185333-022 S	111062	Soil	10-MAR-2006 06:36	1.0	0.1006			3	
040	068a040	SAMPLE	185333-023 S	111062	Soil	10-MAR-2006 07:03	1.0	0.1004			3	
041	068a041	SAMPLE	185211-001	111002	Water	10-MAR-2006 07:30	1.0	0.005			3	
042	068a042	SAMPLE	185211-002	111002	Water	10-MAR-2006 07:58	1.0	0.005			3	
043	068a043	SAMPLE	185229-030	111002	Water	10-MAR-2006 08:24	1.0	0.005		1	3	
044	068a044	SAMPLE	185229-031	111002	Water	10-MAR-2006 08:52	1.0	0.005			3	
045	068a045	SAMPLE	185229-033	111002	Water	10-MAR-2006 09:19	1.0	0.005			3	
046	068a046	SAMPLE	185279-001	111034	Water	10-MAR-2006 09:46	1.0	0.005	1		3	1:HXCS=104.~~0~~20
047	068a047	SAMPLE	185339-001	111055	Water	10-MAR-2006 10:13	1.0	0.005			3	
048	068a048	SAMPLE	185339-002	111055	Water	10-MAR-2006 10:40	5.0	0.005			3	
049	068a049	CCV	dsl_500			10-MAR-2006 11:08	1.0	1.0			3	2
050	068a050	CCV	mo_500			10-MAR-2006 11:36	1.0	1.0	2		3	12
051	068a051	X	dsl_500			10-MAR-2006 12:03	1.0					2
052	068a052	CCV	bunk_1250			10-MAR-2006 12:30	1.0	1.0			3	4

Stds used: 1=S2432 2=S2871 3=S2741 4=S2872 5=S2694 6=S2695 7=S2696 8=S2697 9=S2698 10=S2885 11=S2755 12=S2843

SEQUENCE SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116108479 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 16-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	075a001	X	primer			16-MAR-2006 07:59	1.0					
002	075a002	X	ib			16-MAR-2006 08:27	1.0					
003	075a003	CCV	dsl_500			16-MAR-2006 10:21	1.0	1.0		3	1	
004	075a004	CCV	mo_500			16-MAR-2006 10:49	1.0	1.0		3	2	
005	075a005	BLANK	QC331673 S	111348	Water	16-MAR-2006 11:17	1.0	0.005		3		
006	075a006	LCS	QC331674 S	111348	Water	16-MAR-2006 11:45	1.0	0.005		3		
007	075a007	SAMPLE	185548-001 S	111348	Water	16-MAR-2006 12:13	1.0	0.005		3		
008	075a008	SAMPLE	185548-002 S	111348	Water	16-MAR-2006 12:42	1.0	0.005		3		
009	075a009	XCCV	dsl_1000			16-MAR-2006 13:10	1.0	1.0		3	3	
010	075a010	CCV	mo_500			16-MAR-2006 13:39	1.0	1.0		3	2	
011	075a011	CCV	dsl_1000			16-MAR-2006 14:07	1.0	1.0		3	3	
012	075a012	X	ib			16-MAR-2006 16:14	1.0					
013	075a013	CCV	dsl_250			16-MAR-2006 16:44	1.0	1.0		3	4	
014	075a014	CCV	mo_500			16-MAR-2006 17:12	1.0	1.0		3	2	
015	075a015	X	ib			16-MAR-2006 17:41	1.0					94
016	075a016	X	cm			16-MAR-2006 18:10	20.0					
017	075a017	X	cm			16-MAR-2006 18:38	1.0					
018	075a018	X	ib			16-MAR-2006 19:07	1.0					
019	075a019	CCV	dsl_500			16-MAR-2006 19:35	1.0	1.0		3	1	
020	075a020	CCV	mo_500			16-MAR-2006 20:09	1.0	1.0	1	3	2	
021	075a021	SAMPLE	185492-005	111361	Soil	16-MAR-2006 20:48	1.0	0.1003		3		
022	075a022	SAMPLE	185492-007	111361	Soil	16-MAR-2006 21:16	1.0	0.09936		3		
023	075a023	SAMPLE	185492-008	111361	Soil	16-MAR-2006 21:44	1.0	0.1001		3		
024	075a024	SAMPLE	185492-009	111361	Soil	16-MAR-2006 22:12	1.0	0.0999		3		
025	075a025	SAMPLE	185492-010	111361	Soil	16-MAR-2006 22:40	1.0	0.1007		3		
026	075a026	SAMPLE	185492-012	111361	Soil	16-MAR-2006 23:08	1.0	0.1002		3		
027	075a027	SAMPLE	185492-013	111361	Soil	16-MAR-2006 23:36	1.0	0.1003		3		
028	075a028	SAMPLE	185492-014	111361	Soil	17-MAR-2006 00:04	1.0	0.09956		3		
029	075a029	SAMPLE	185492-015	111361	Soil	17-MAR-2006 00:32	1.0	0.1000		3		
030	075a030	SAMPLE	185492-022	111361	Soil	17-MAR-2006 07:39	1.0	0.1005		3	2:BUNKC:=7668.93	
031	075a031	X	ib			17-MAR-2006 08:07	1.0					

Stds used: 1=S2871 2=S2843 3=S2885 4=S2755

SEQUENCE SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116108479 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 16-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	075a032	CCV	dsl_1000			17-MAR-2006 08:34	1.0	1.0		3	3	
033	075a033	CCV	mo_500			17-MAR-2006 09:10	1.0	1.0		3	2	

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Stds used: 1=S2871 2=S2843 3=S2885 4=S2755

SEQUENCE SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176109909 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 17-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	076a001	X	Pimer			17-MAR-2006 07:49	1.0						
002	076a002	X	ib			17-MAR-2006 08:16	1.0						
003	076a003	CCV	dsl_500			17-MAR-2006 08:55	1.0	1.0			3	1	
004	076a004	CCV	mo_500			17-MAR-2006 09:22	1.0	1.0	2		3	2	
005	076a005	SAMPLE	185565-001	111371	Soil	17-MAR-2006 10:10	25.0	0.1006			3		2:BUNKC:=7056.90
006	076a006	CCV	dsl_1000			17-MAR-2006 10:54	1.0	1.0			3	3	
007	076a007	CCV	mo_500			17-MAR-2006 11:21	1.0	1.0	2		3	2	
008	076a008	SAMPLE	185492-024	111361	Soil	17-MAR-2006 12:55	10.0	0.0999			3		1:BUNKC:=5071.01
009	076a009	SAMPLE	185492-003	111361	Soil	17-MAR-2006 13:22	10.0	0.1004			3		
010	076a010	SAMPLE	185492-022	111361	Soil	17-MAR-2006 13:50	1.0	0.1005			3		2:BUNKC:=7795.88
011	076a011	X	ib			17-MAR-2006 14:17	1.0						
012	076a012	SAMPLE	185492-031	111371	Soil	17-MAR-2006 14:45	1.0	0.09952			3		
013	076a013	SAMPLE	185492-012	111361	Soil	17-MAR-2006 15:13	1.0	0.1002			3		
014	076a014	CCV	dsl_250			17-MAR-2006 15:41	1.0	1.0			3	4	
015	076a015	CCV	mo_500			17-MAR-2006 16:08	1.0	1.0	2		3	2	
016	076a016	X	ib			17-MAR-2006 17:02	1.0						
017	076a017	CCV	jet_250			17-MAR-2006 17:30	1.0	1.0			3	5	
018	076a018	SAMPLE	185540-006 S	111371	Miscel	17-MAR-2006 17:57	1.0	0.1004			3		
019	076a019	SAMPLE	185540-002 S	111371	Miscel	17-MAR-2006 18:25	1.0	0.1002			3		
020	076a020	SAMPLE	185540-004 S	111371	Miscel	17-MAR-2006 18:53	1.0	0.09976			3		
021	076a021	SAMPLE	185540-003 S	111371	Miscel	17-MAR-2006 19:21	3.0	0.09964			3		
022	076a022	SAMPLE	185540-007 S	111371	Miscel	17-MAR-2006 19:48	1.0	0.1008			3		
023	076a023	SAMPLE	185540-005 S	111371	Miscel	17-MAR-2006 20:16	1.0	0.09958			3		
024	076a024	SAMPLE	185540-001 S	111371	Miscel	17-MAR-2006 20:43	5.0	0.1002			3		
025	076a025	CCV	dsl_1000			17-MAR-2006 21:11	1.0	1.0			3	3	
026	076a026	CCV	mo_500			17-MAR-2006 21:38	1.0	1.0	2		3	2	
027	076a027	X	ccv			17-MAR-2006 22:05	1.0					3	
028	076a028	CCV	jet_250			17-MAR-2006 22:33	1.0	1.0			3	5	
029	076a029	SAMPLE	185408-001 S	111348	Water	17-MAR-2006 23:00	1.0	0.005			3		
030	076a030	SAMPLE	185408-003 S	111348	Water	17-MAR-2006 23:28	1.0	0.005			3		
031	076a031	SAMPLE	185408-004 S	111348	Water	17-MAR-2006 23:55	1.0	0.005			3		

Stds used: 1=S2871 2=S2843 3=S2885 4=S2755 5=S2432

SEQUENCE SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176109909 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 17-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	076a032	SAMPLE	185408-005 S	111348	Water	18-MAR-2006 00:22	1.0	0.005		3		
033	076a033	SAMPLE	185408-009 S	111348	Water	18-MAR-2006 00:49	1.0	0.005		3		
034	076a034	SAMPLE	185408-011 S	111348	Water	18-MAR-2006 01:17	1.0	0.005		3		
035	076a035	SAMPLE	185523-001	111387	Water	18-MAR-2006 01:44	1.0	0.005		3		
036	076a036	SAMPLE	185523-002	111387	Water	18-MAR-2006 02:11	1.0	0.005		3		
037	076a037	SAMPLE	185523-003	111387	Water	18-MAR-2006 02:39	1.0	0.005		3		
038	076a038	SAMPLE	185523-004	111387	Water	18-MAR-2006 03:06	1.0	0.005		3		
039	076a039	CCV	dsl_500			18-MAR-2006 03:34	1.0	1.0		3	1	
040	076a040	CCV	mo_500			18-MAR-2006 04:01	1.0	1.0	2	3	2	
041	076a041	X	ccv			18-MAR-2006 04:28	1.0				1	
042	076a042	BS	QC331829 S	111387	Water	18-MAR-2006 04:56	1.0	0.005		3		
043	076a043	BSD	QC331830 S	111387	Water	18-MAR-2006 05:23	1.0	0.005		3		
044	076a044	BLANK	QC331828 S	111387	Water	18-MAR-2006 05:50	1.0	0.005	6	3		
045	076a045	SAMPLE	185381-003 S	111387	Water	18-MAR-2006 06:17	1.0	0.005		3		
046	076a046	SAMPLE	185381-004 S	111387	Water	18-MAR-2006 06:45	1.0	0.005		3		
047	076a047	SAMPLE	185381-005 S	111387	Water	18-MAR-2006 07:12	1.0	0.005		3		
048	076a048	SAMPLE	185381-006 S	111387	Water	18-MAR-2006 07:39	1.0	0.005		3		
049	076a049	SAMPLE	185381-007 S	111387	Water	18-MAR-2006 08:06	1.0	0.005		3		
050	076a050	SAMPLE	185381-011 S	111387	Water	18-MAR-2006 08:33	1.0	0.005		3		
051	076a051	SAMPLE	185381-012 S	111387	Water	18-MAR-2006 09:01	1.0	0.005		3		
052	076a052	X	ib			18-MAR-2006 09:28	1.0					
053	076a053	CCV	dsl_250			18-MAR-2006 09:56	1.0	1.0		3	4	
054	076a054	CCV	mo_500			18-MAR-2006 10:23	1.0	1.0	2	3	2	
055	076a055	X	ccv			18-MAR-2006 10:50	1.0				4	
056	076a056	SAMPLE	185381-013 S	111387	Water	18-MAR-2006 11:17	1.0	0.005		3		
057	076a057	SAMPLE	185381-014 S	111387	Water	18-MAR-2006 11:45	1.0	0.005	1	3		
058	076a058	SAMPLE	185381-015 S	111387	Water	18-MAR-2006 12:12	1.0	0.005		3		
059	076a059	SAMPLE	185381-016 S	111387	Water	18-MAR-2006 12:39	1.0	0.005		3		
060	076a060	X	dsl_500			18-MAR-2006 13:07	1.0	1.0	7	3	1	
061	076a061	CCV	mo_500			18-MAR-2006 13:34	1.0	1.0	2	3	2	
062	076a062	CCV	dsl_500			18-MAR-2006 14:01	1.0	1.0	7	3	1	

Stds used: 1=S2871 2=S2843 3=S2885 4=S2755 5=S2432

SEQUENCE SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166114247 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	079b001	X	primer			20-MAR-2006 08:07	1.0					
002	079b002	X	ib			20-MAR-2006 08:34	1.0					
003	079b003	CCV	dsl_500			20-MAR-2006 09:02	1.0	1.0		3	1	
004	079b004	CCV	mo_500			20-MAR-2006 11:26	1.0				2	
005	079b005	CCV	dsl_500			20-MAR-2006 11:53	1.0				1	
006	079b006	X	ib			20-MAR-2006 14:24	1.0					
007	079b007	ICAL	hex_5			20-MAR-2006 14:52	1.0	1.0			3	
008	079b008	ICAL	hex_10			20-MAR-2006 15:20	1.0	1.0			4	
009	079b009	ICAL	hex_25			20-MAR-2006 15:49	1.0	1.0			5	
010	079b010	ICAL	hex_50			20-MAR-2006 16:17	1.0	1.0			6	
011	079b011	ICAL	hex_75			20-MAR-2006 16:45	1.0	1.0			7	
012	079b012	CCV	dsl_1000			20-MAR-2006 17:14	1.0	1.0		3	8	
013	079b013	CCV	mo_500			20-MAR-2006 17:42	1.0	1.0		3	2	
014	079b014	SAMPLE	185385-001 S	111346	Water	20-MAR-2006 18:23	1.0	0.005		3		
015	079b015	SAMPLE	185385-002 S	111346	Water	20-MAR-2006 18:52	1.0	0.005		3		98
016	079b016	SAMPLE	185385-003 S	111346	Water	20-MAR-2006 19:20	1.0	0.005		3		
017	079b017	SAMPLE	185385-004 S	111346	Water	20-MAR-2006 19:48	1.0	0.005		3		
018	079b018	SAMPLE	185385-005 S	111346	Water	20-MAR-2006 20:16	1.0	0.005		3		
019	079b019	X	ib			20-MAR-2006 20:45	1.0					
020	079b020	SAMPLE	185385-006 S	111346	Water	20-MAR-2006 21:13	1.0	0.005		3		
021	079b021	SAMPLE	185385-007 S	111346	Water	20-MAR-2006 21:41	1.0	0.005		3		
022	079b022	SAMPLE	185385-008 S	111346	Water	20-MAR-2006 22:09	1.0	0.005		3		
023	079b023	SAMPLE	185385-009 S	111346	Water	20-MAR-2006 22:37	1.0	0.005		3		
024	079b024	SAMPLE	185385-011 S	111346	Water	20-MAR-2006 23:05	1.0	0.005		3		
025	079b025	X	ib			20-MAR-2006 23:33	1.0					
026	079b026	X	ib			21-MAR-2006 00:01	1.0					
027	079b027	CCV	dsl_250			21-MAR-2006 00:29	1.0	1.0		3	9	
028	079b028	CCV	mo_500			21-MAR-2006 00:57	1.0	1.0	3	3	2	
029	079b029	X	ccv			21-MAR-2006 01:25	1.0				2	
030	079b030	X	ccv			21-MAR-2006 01:52	1.0				9	
031	079b031	SAMPLE	185414-001 S	111437	Water	21-MAR-2006 02:20	1.0	0.005		3		

Stds used: 1=S2871 2=S2843 3=S2694 4=S2695 5=S2696 6=S2697 7=S2698 8=S2885 9=S2755

SEQUENCE SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166114247 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	079b032	SAMPLE	185525-004 S	111348	Water	21-MAR-2006 02:48	1.0	0.005			3		
033	079b033	SAMPLE	185525-001 S	111348	Water	21-MAR-2006 03:15	1.0	0.005			3		
034	079b034	SAMPLE	185525-005 S	111348	Water	21-MAR-2006 03:43	1.0	0.005			3		
035	079b035	SAMPLE	185525-008 S	111348	Water	21-MAR-2006 04:11	1.0	0.005			3		
036	079b036	SAMPLE	185525-011 S	111348	Water	21-MAR-2006 04:38	1.0	0.005			3		
037	079b037	SAMPLE	185525-007 S	111348	Water	21-MAR-2006 05:06	1.0	0.005			3		
038	079b038	SAMPLE	185525-010 S	111348	Water	21-MAR-2006 05:34	1.0	0.005			3		
039	079b039	SAMPLE	185525-012 S	111348	Water	21-MAR-2006 06:02	1.0	0.005			3		
040	079b040	X	ib			21-MAR-2006 06:30	1.0						
041	079b041	CCV	dsl_1000			21-MAR-2006 06:57	1.0	1.0	7		3	8	
042	079b042	CCV	mo_500			21-MAR-2006 07:25	1.0	1.0	4		3	2	
043	079b043	X	ccv			21-MAR-2006 07:53	1.0					2	
044	079b044	X	ccv			21-MAR-2006 08:20	1.0					8	

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Stds used: 1=S2871 2=S2843 3=S2694 4=S2695 5=S2696 6=S2697 7=S2698 8=S2885 9=S2755

SEQUENCE SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176114438 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	079a001	X	Pimer			20-MAR-2006 11:18	1.0					
002	079a002	X	ib			20-MAR-2006 11:46	1.0					
003	079a003	CCV	dsl_500			20-MAR-2006 12:13	1.0	1.0		3	1	
004	079a004	CCV	mo_500			20-MAR-2006 12:40	1.0	1.0	2	3	2	
005	079a005	SAMPLE	185519-013 S	111429	Soil	20-MAR-2006 13:11	1.0	0.1001		3		
006	079a006	SAMPLE	185607-005	111429	Soil	20-MAR-2006 13:39	1.0	0.1000	1	3		
007	079a007	SAMPLE	185519-015 S	111429	Soil	20-MAR-2006 14:06	2.0	0.09978		3		
008	079a008	SAMPLE	185519-016 S	111429	Soil	20-MAR-2006 14:34	1.0	0.1003		3		
009	079a009	SAMPLE	185519-014 S	111429	Soil	20-MAR-2006 15:02	3.0	0.09962		3		
010	079a010	SAMPLE	185607-005	111429	Soil	20-MAR-2006 15:30	1.0	0.1000	1	3		
011	079a011	MSS	185608-001	111429	Soil	20-MAR-2006 15:57	1.0	0.1009	9	3		
012	079a012	SAMPLE	185608-003	111429	Soil	20-MAR-2006 16:25	1.0	0.09921	1	3		
013	079a013	X	ib			20-MAR-2006 16:53	1.0					
014	079a014	CCV	dsl_1000			20-MAR-2006 17:20	1.0	1.0		3	3	
015	079a015	CCV	mo_500			20-MAR-2006 17:48	1.0	1.0	2	3	2	100
016	079a016	CCV	jet_250			20-MAR-2006 18:26	1.0	1.0		3	4	
017	079a017	LCS	QC332017 S	111427	Soil	20-MAR-2006 18:55	1.0	0.09913		3		
018	079a018	MSS	185408-002 S	111348	Water	20-MAR-2006 19:22	1.0	0.005	6	3		
019	079a019	MSS	185408-008 S	111348	Water	20-MAR-2006 19:50	1.0	0.005	6	3		
020	079a020	MSS	185408-010 S	111348	Water	20-MAR-2006 20:17	1.0	0.005	6	3		
021	079a021	MSS	185525-002 S	111348	Water	20-MAR-2006 20:45	1.0	0.005	6	3		
022	079a022	X	ib			20-MAR-2006 21:12	1.0					
023	079a023	SAMPLE	185566-001 S	111437	Water	20-MAR-2006 21:40	1.0	0.005		3		
024	079a024	SAMPLE	185540-008 S	111427	Miscel	20-MAR-2006 22:07	1.0	0.1003		3		
025	079a025	SAMPLE	185613-004 S	111434	Soil	20-MAR-2006 22:35	1.0	0.09944	1	3	14:BUNKC:=20467.3	
026	079a026	X	ib			20-MAR-2006 23:02	1.0					
027	079a027	SAMPLE	185547-004	111427	Soil	20-MAR-2006 23:30	10.0	0.1003		3		
028	079a028	SAMPLE	185547-003	111427	Soil	20-MAR-2006 23:57	20.0	0.1000		3		
029	079a029	X	ib			21-MAR-2006 00:24	1.0					
030	079a030	CCV	dsl_250			21-MAR-2006 00:52	1.0	1.0		3	5	
031	079a031	CCV	mo_500			21-MAR-2006 01:19	1.0	1.0	2	3	2	

Stds used: 1=S2871 2=S2843 3=S2885 4=S2432 5=S2755 6=S2971

SEQUENCE SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176114438 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	079a032	X	ccv			21-MAR-2006 01:46	1.0					5	
033	079a033	CCV	jet_250			21-MAR-2006 02:13	1.0	1.0			3	4	
034	079a034	MSS	185524-006	111427	Soil	21-MAR-2006 02:41	1.0	0.1001	8		3		
035	079a035	SAMPLE	185592-003	111429	Soil	21-MAR-2006 03:08	1.0	0.1009			3		
036	079a036	SAMPLE	185592-004	111429	Soil	21-MAR-2006 03:36	1.0	0.1003			3		
037	079a037	SAMPLE	185592-001	111429	Soil	21-MAR-2006 04:03	50.0	0.1006			3	2:BUNKC:=5647.70	
038	079a038	X	ib			21-MAR-2006 04:30	1.0						
039	079a039	SAMPLE	184983-002 S	110760	Miscel	21-MAR-2006 04:58	10.0	0.1983			3	2:BUNKC:=6480.44	
040	079a040	SAMPLE	185545-002 S	111427	Soil	21-MAR-2006 05:25	1.0	0.1001			3		
041	079a041	SAMPLE	185545-003 S	111427	Soil	21-MAR-2006 05:52	1.0	0.1001	1	1	3		
042	079a042	SAMPLE	185545-001 S	111427	Soil	21-MAR-2006 06:20	1.0	0.1009	3	1	3	20:BUNKC:=30841.3	
043	079a043	X	ib			21-MAR-2006 06:47	1.0						
044	079a044	SAMPLE	185545-004 S	111427	Soil	21-MAR-2006 07:14	1.0	0.09962			3		
045	079a045	SAMPLE	185563-001	111427	Soil	21-MAR-2006 07:41	50.0	0.2007	2		3	7:BUNKC:=10565.7	
046	079a046	X	ib			21-MAR-2006 08:08	1.0						
047	079a047	CCV	dsl_500			21-MAR-2006 08:36	1.0	1.0			3	1	
048	079a048	X	mo_500			21-MAR-2006 09:03	1.0	1.0			3	2	
049	079a049	X	ccv			21-MAR-2006 09:30	1.0					1	
050	079a050	CCV	jet_250			21-MAR-2006 09:57	1.0	1.0			3	4	
051	079a051	CCV	mo_500			21-MAR-2006 10:25	1.0	1.0	2		3	2	
052	079a052	SAMPLE	185631-014 S	111434	Soil	21-MAR-2006 11:49	1.0	0.1003			3		
053	079a053	SAMPLE	185631-015 S	111434	Soil	21-MAR-2006 12:17	1.0	0.1002	1		3	8:JP8:10=25821.0	
054	079a054	SAMPLE	185631-001 S	111434	Soil	21-MAR-2006 12:44	1.0	0.1000			3		
055	079a055	SAMPLE	185631-007 S	111434	Soil	21-MAR-2006 13:12	1.0	0.0996			3		
056	079a056	SAMPLE	185385-015 S	111346	Water	21-MAR-2006 13:39	1.0	0.005			3		
057	079a057	SAMPLE	185385-017 S	111346	Water	21-MAR-2006 14:07	1.0	0.005			3		
058	079a058	SAMPLE	185385-016 S	111346	Water	21-MAR-2006 14:35	1.0	0.005			3		
059	079a059	SAMPLE	185381-020 S	111387	Water	21-MAR-2006 15:02	1.0	0.005			3		
060	079a060	SAMPLE	185631-010 S	111434	Soil	21-MAR-2006 15:30	1.0	0.09921			3	1:JP8:10=3738.52	
061	079a061	X	dsl_1000			21-MAR-2006 16:17	1.0	1.0			3	3	
062	079a062	CCV	mo_500			21-MAR-2006 16:44	1.0	1.0			3	6	

Stds used: 1=S2871 2=S2843 3=S2885 4=S2432 5=S2755 6=S2971

SEQUENCE SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176114438 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
063	079a063	MSS	185520-001 S	111434	Soil	21-MAR-2006 17:22	1.0	0.0998	6	3		
064	079a064	MS	QC332046 S	111434	Soil	21-MAR-2006 17:50	1.0	0.0997		3		
065	079a065	MSD	QC332047 S	111434	Soil	21-MAR-2006 18:18	1.0	0.09976		3		
066	079a066	SAMPLE	185600-005	111434	Soil	21-MAR-2006 18:45	1.0	0.1001		3		
067	079a067	SAMPLE	185600-003	111434	Soil	21-MAR-2006 19:13	1.0	0.1003		3		
068	079a068	SAMPLE	185456-004 S	111477	Water	21-MAR-2006 19:41	1.0	0.005		3		
069	079a069	SAMPLE	185456-005 S	111477	Water	21-MAR-2006 20:09	1.0	0.005		3		
070	079a070	SAMPLE	185456-006 S	111477	Water	21-MAR-2006 20:36	1.0	0.005		3		
071	079a071	SAMPLE	185456-007 S	111477	Water	21-MAR-2006 21:04	1.0	0.005		3		
072	079a072	SAMPLE	185456-008 S	111477	Water	21-MAR-2006 21:32	1.0	0.005		3		
073	079a073	X	ib			21-MAR-2006 21:59	1.0					
074	079a074	CCV	dsl_250			21-MAR-2006 22:27	1.0	1.0		3	5	
075	079a075	CCV	mo_500			21-MAR-2006 22:54	1.0	1.0		3	6	
076	079a076	X	ccv			21-MAR-2006 23:22	1.0				5	
077	079a077	LCS	QC332220 S	111478	Water	21-MAR-2006 23:49	1.0	0.005		3		102
078	079a078	BLANK	QC332219 S	111478	Water	22-MAR-2006 00:16	1.0	0.005	7	3		
079	079a079	SAMPLE	185456-009 S	111477	Water	22-MAR-2006 00:44	1.0	0.005		3		
080	079a080	SAMPLE	185580-003	111477	Water	22-MAR-2006 01:11	1.0	0.005		3		
081	079a081	SAMPLE	185580-004	111477	Water	22-MAR-2006 01:38	1.0	0.005		3		
082	079a082	SAMPLE	185580-005	111477	Water	22-MAR-2006 02:05	1.0	0.005		3		
083	079a083	SAMPLE	185580-006	111477	Water	22-MAR-2006 02:33	1.0	0.005		3		
084	079a084	SAMPLE	185580-007	111477	Water	22-MAR-2006 03:00	1.0	0.005		3		
085	079a085	SAMPLE	185580-008	111477	Water	22-MAR-2006 03:28	1.0	0.005		3		
086	079a086	SAMPLE	185580-009	111477	Water	22-MAR-2006 03:55	1.0	0.005		3		
087	079a087	X	ib			22-MAR-2006 04:23	1.0					
088	079a088	CCV	dsl_500			22-MAR-2006 04:50	1.0	1.0		3	1	
089	079a089	CCV	mo_500			22-MAR-2006 05:18	1.0	1.0	1	3	6	
090	079a090	X	xccv			22-MAR-2006 05:45	1.0				1	
091	079a091	CCV	jet_250			22-MAR-2006 07:26	1.0	1.0		3	4	
092	079a092	MSS	185457-009 S	111478	Water	22-MAR-2006 07:53	1.0	0.005	6	3		
093	079a093	SAMPLE	185457-010 S	111478	Water	22-MAR-2006 08:40	1.0	0.005		3		

Stds used: 1=S2871 2=S2843 3=S2885 4=S2432 5=S2755 6=S2971

SEQUENCE SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176114438 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
094	079a094	SAMPLE	185545-004 S	111427	Soil	22-MAR-2006 09:07	1.0	0.09962			3		
095	079a095	SAMPLE	185545-003 S	111427	Soil	22-MAR-2006 09:35	1.0	0.1001		1	3	2:BUNKC:=6790.53	
096	079a096	SAMPLE	185545-001 S	111427	Soil	22-MAR-2006 10:02	10.0	0.1009			3		
097	079a097	SAMPLE	185545-003	111427	Soil	22-MAR-2006 10:31	1.0						
098	079a098	X	ib			22-MAR-2006 11:05	1.0						
099	079a099	SAMPLE	185456-004 S	111477	Water	22-MAR-2006 11:32	1.0	0.005			3		
100	079a100	SAMPLE	185456-005 S	111477	Water	22-MAR-2006 11:59	1.0	0.005			3		
101	079a101	SAMPLE	185600-005	111434	Soil	22-MAR-2006 12:26	1.0	0.1001			3		
102	079a102	X	185381-020 S	111387	Water	22-MAR-2006 12:53	1.0						
103	079a103	CCV	dsl_1000			22-MAR-2006 13:20	1.0	1.0			3	3	
104	079a104	CCV	mo_500			22-MAR-2006 13:47	1.0	1.0	2		3	6	
105	079a105	CCV	jet_250			22-MAR-2006 14:15	1.0	1.0			3	4	
106	079a106	SAMPLE	185456-006 S	111477	Water	22-MAR-2006 14:42	1.0	0.005			3		
107	079a107	SAMPLE	185456-007 S	111477	Water	22-MAR-2006 15:09	1.0	0.005			3		
108	079a108	SAMPLE	185456-008 S	111477	Water	22-MAR-2006 15:37	1.0	0.005			3		103
109	079a109	SAMPLE	185545-003 S	111427	Soil	22-MAR-2006 16:04	1.0	0.1001		1	3	2:BUNKC:=6064.36	
110	079a110	SAMPLE	185600-003	111434	Soil	22-MAR-2006 16:31	1.0	0.1003			3		
111	079a111	CCV	dsl_500			22-MAR-2006 17:04	1.0	1.0			3	1	
112	079a112	CCV	mo_500			22-MAR-2006 17:31	1.0	1.0			3	2	
113	079a113	X	ccv			22-MAR-2006 17:59	1.0					1	
114	079a114	CCV	jet_250			22-MAR-2006 18:26	1.0	1.0			3	4	
115	079a115	BS	QC332370 S	111513	Water	22-MAR-2006 19:32	1.0	0.005	2		3		
116	079a116	BSD	QC332371 S	111513	Water	22-MAR-2006 19:59	1.0	0.005	2		3		
117	079a117	BLANK	QC332369 S	111513	Water	22-MAR-2006 20:27	1.0	0.005	6		3		
118	079a118	SAMPLE	185632-001	111513	Water	22-MAR-2006 20:54	1.0	0.005			3		
119	079a119	SAMPLE	185632-002	111513	Water	22-MAR-2006 21:21	1.0	0.005		1	3		
120	079a120	SAMPLE	185632-003	111513	Water	22-MAR-2006 21:48	1.0	0.005			3		
121	079a121	SAMPLE	185632-004	111513	Water	22-MAR-2006 22:15	1.0	0.005			3		
122	079a122	SAMPLE	185632-005	111513	Water	22-MAR-2006 22:43	1.0	0.005			3		
123	079a123	SAMPLE	185632-006	111513	Water	22-MAR-2006 23:11	1.0	0.005			3		
124	079a124	SAMPLE	185632-007	111513	Water	22-MAR-2006 23:38	1.0	0.005			3		

Stds used: 1=S2871 2=S2843 3=S2885 4=S2432 5=S2755 6=S2971

SEQUENCE SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176114438 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
125	079a125	X	ib			23-MAR-2006 00:05	1.0						
126	079a126	CCV	dsl_1000			23-MAR-2006 00:32	1.0	1.0	2		3	3	
127	079a127	CCV	mo_500			23-MAR-2006 01:00	1.0	1.0			3	2	
128	079a128	X	ccv			23-MAR-2006 01:27	1.0					3	
129	079a129	CCV	jet_250			23-MAR-2006 01:54	1.0	1.0			3	4	
130	079a130	SAMPLE	185632-008	111513	Water	23-MAR-2006 02:21	1.0	0.005	2		3		14:BUNKC:=13333.9
131	079a131	SAMPLE	185632-001 S	111513	Water	23-MAR-2006 02:49	1.0	0.005			3		
132	079a132	SAMPLE	185632-002 S	111513	Water	23-MAR-2006 03:16	1.0	0.005			3		
133	079a133	SAMPLE	185632-003 S	111513	Water	23-MAR-2006 03:43	1.0	0.005			3		
134	079a134	SAMPLE	185632-004 S	111513	Water	23-MAR-2006 04:11	1.0	0.005			3		
135	079a135	SAMPLE	185632-005 S	111513	Water	23-MAR-2006 04:38	1.0	0.005			3		
136	079a136	SAMPLE	185632-006 S	111513	Water	23-MAR-2006 05:05	1.0	0.005			3		
137	079a137	SAMPLE	185632-007 S	111513	Water	23-MAR-2006 05:32	1.0	0.005			3		
138	079a138	SAMPLE	185632-008 S	111513	Water	23-MAR-2006 06:00	1.0	0.005			3		5:BUNKC:=6110.97
139	079a139	SAMPLE	185463-005 S	111513	Water	23-MAR-2006 06:27	1.0	0.005			3		
140	079a140	X	ib			23-MAR-2006 06:55	1.0						
141	079a141	CCV	dsl_250			23-MAR-2006 07:22	1.0	1.0			3	5	
142	079a142	CCV	mo_500			23-MAR-2006 07:49	1.0	1.0			3	2	
143	079a143	X	ccv			23-MAR-2006 08:17	1.0					5	
144	079a144	CCV	jet_250			23-MAR-2006 08:44	1.0	1.0			3	4	
145	079a145	SAMPLE	185632-002	111513	Water	23-MAR-2006 10:44	1.0	0.005		1	3		
146	079a146	SAMPLE	185632-008	111513	Water	23-MAR-2006 11:11	5.0	0.005			3		
147	079a147	SAMPLE	185631-013 S	111434	Soil	23-MAR-2006 11:39	20.0	0.09984			3		
148	079a148	CCV	dsl_500			23-MAR-2006 12:17	1.0	1.0			3	1	
149	079a149	CCV	mo_500			23-MAR-2006 12:44	1.0	1.0			3	6	
150	079a150	CCV	jet_250			23-MAR-2006 13:11	1.0	1.0			3	4	

Stds used: 1=S2871 2=S2843 3=S2885 4=S2432 5=S2755 6=S2971

SEQUENCE SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116117499 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	081a001	X	ib			22-MAR-2006 14:19	1.0					
002	081a002	X				22-MAR-2006 14:47	1.0					
003	081a003	X	cm 12-60			22-MAR-2006 15:15	1.0					
004	081a004	X	dsl_1000			22-MAR-2006 15:46	1.0	1.0		3	1	
005	081a005	CCV	mo_500			22-MAR-2006 16:14	1.0	1.0		3	2	
006	081a006	CCV	dsl_1000			22-MAR-2006 16:57	1.0	1.0		3	1	
007	081a007	SAMPLE	185631-009 S	111434	Soil	22-MAR-2006 17:56	1.0	0.09932		3		
008	081a008	SAMPLE	185631-012 S	111434	Soil	22-MAR-2006 18:23	1.0	0.09952		3		
009	081a009	SAMPLE	185631-016 S	111434	Soil	22-MAR-2006 18:51	1.0	0.09927		3		
010	081a010	SAMPLE	185631-015 S	111434	Soil	22-MAR-2006 19:19	10.0	0.1002		3		
011	081a011	MSS	185520-001 S	111434	Soil	22-MAR-2006 19:47	1.0	0.0998	8	3		
012	081a012	MS	QC332046 S	111434	Soil	22-MAR-2006 20:15	1.0	0.0997	1	3		
013	081a013	MSD	QC332047 S	111434	Soil	22-MAR-2006 20:43	1.0	0.09976	1	3		
014	081a014	SAMPLE	185631-014 S	111434	Soil	22-MAR-2006 21:11	1.0	0.1003		3		
015	081a015	SAMPLE	185631-011 S	111434	Soil	22-MAR-2006 21:39	1.0	0.1003		3		105
016	081a016	SAMPLE	185631-013 S	111434	Soil	22-MAR-2006 22:07	1.0	0.09984	1	3		9:JP8:10=37605.8
017	081a017	X	ib			22-MAR-2006 22:35	1.0					
018	081a018	CCV	mo_500			22-MAR-2006 23:04	1.0	1.0		3	2	
019	081a019	CCV	dsl_250			22-MAR-2006 23:32	1.0	1.0	1	3	3	
020	081a020	X	ccv			23-MAR-2006 00:00	1.0				2	
021	081a021	X	ccv			23-MAR-2006 00:28	1.0				3	
022	081a022	SAMPLE	185493-001 S	111437	Water	23-MAR-2006 00:56	1.0	0.005		3		
023	081a023	SAMPLE	185493-002 S	111437	Water	23-MAR-2006 01:24	1.0	0.005		3		
024	081a024	SAMPLE	185493-003 S	111437	Water	23-MAR-2006 01:52	1.0	0.005		3		
025	081a025	SAMPLE	185493-004 S	111437	Water	23-MAR-2006 02:20	1.0	0.005		3		
026	081a026	SAMPLE	185631-001 S	111434	Soil	23-MAR-2006 02:48	1.0	0.1000		3		
027	081a027	SAMPLE	185631-007 S	111434	Soil	23-MAR-2006 03:16	1.0	0.0996		3		
028	081a028	SAMPLE	185631-010 S	111434	Soil	23-MAR-2006 03:44	1.0	0.09921		3		3:JP8:10=5020.68
029	081a029	X	ib			23-MAR-2006 04:12	1.0					
030	081a030	SAMPLE	185621-001	111513	Water	23-MAR-2006 04:39	1.0	0.005		3		
031	081a031	SAMPLE	185621-002	111513	Water	23-MAR-2006 05:07	1.0	0.005		3		

Stds used: 1=S2885 2=S2971 3=S2755 4=S2871 5=S2432

SEQUENCE SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116117499 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	081a032	SAMPLE	185621-003	111513	Water	23-MAR-2006 05:35	1.0	0.005			3		
033	081a033	CCV	mo_500			23-MAR-2006 06:03	1.0	1.0			3	2	
034	081a034	CCV	dsl_500			23-MAR-2006 06:31	1.0	1.0			3	4	
035	081a035	X	ccv			23-MAR-2006 06:59	1.0					2	
036	081a036	X	ccv			23-MAR-2006 07:27	1.0					4	
037	081a037	SAMPLE	185621-004	111513	Water	23-MAR-2006 07:55	1.0	0.005			3		
038	081a038	SAMPLE	185621-005	111513	Water	23-MAR-2006 08:23	1.0	0.005			3		
039	081a039	SAMPLE	185621-006	111513	Water	23-MAR-2006 08:51	1.0	0.005			3		
040	081a040	SAMPLE	185621-007	111513	Water	23-MAR-2006 09:19	1.0	0.005			3		
041	081a041	SAMPLE	185621-008	111513	Water	23-MAR-2006 09:47	1.0	0.005			3		
042	081a042	CCV	mo_500			23-MAR-2006 10:41	1.0	1.0			3	2	
043	081a043	CCV	dsl_1000			23-MAR-2006 11:22	1.0	1.0			3	1	
044	081a044	CCV	jet_250			23-MAR-2006 11:50	1.0	1.0			3	5	
045	081a045	SAMPLE	185632-002	111513	Water	23-MAR-2006 12:18	1.0	0.005		1	3		
046	081a046	MS	QC332221 S	111478	Water	23-MAR-2006 13:56	1.0	0.005			3		
047	081a047	MSD	QC332222 S	111478	Water	23-MAR-2006 14:24	1.0	0.005			3		
048	081a048	MS	QC332223 S	111478	Water	23-MAR-2006 14:51	1.0	0.005			3		
049	081a049	MSD	QC332224 S	111478	Water	23-MAR-2006 15:19	1.0	0.005			3		
050	081a050	MS	QC332225 S	111478	Water	23-MAR-2006 15:47	1.0	0.005			3		
051	081a051	MSD	QC332226 S	111478	Water	23-MAR-2006 16:15	1.0	0.005			3		
052	081a052	MS	QC332227 S	111478	Water	23-MAR-2006 16:43	1.0	0.005			3		
053	081a053	MSD	QC332228 S	111478	Water	23-MAR-2006 17:11	1.0	0.005			3		
054	081a054	MS	QC331675 S	111348	Water	23-MAR-2006 17:38	1.0	0.005			3		
055	081a055	MSD	QC331676 S	111348	Water	23-MAR-2006 18:07	1.0	0.005			3		
056	081a056	X	ib			23-MAR-2006 18:35	1.0						
057	081a057	CCV	mo_500			23-MAR-2006 19:02	1.0	1.0			3	2	
058	081a058	CCV	dsl_1000			23-MAR-2006 19:30	1.0	1.0			3	1	
059	081a059	X	ccv			23-MAR-2006 19:58	1.0					2	
060	081a060	X	ccv			23-MAR-2006 20:26	1.0					1	
061	081a061	SAMPLE	185520-002 S	111434	Soil	23-MAR-2006 20:54	1.0	0.1000			3		
062	081a062	SAMPLE	185520-003 S	111434	Soil	23-MAR-2006 21:22	1.0	0.09994			3		

Stds used: 1=S2885 2=S2971 3=S2755 4=S2871 5=S2432

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SEQUENCE SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116117499 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
063	081a063	SAMPLE	185520-004 S	111434	Soil	23-MAR-2006 21:50	1.0	0.09972			3		
064	081a064	SAMPLE	185520-005 S	111434	Soil	23-MAR-2006 22:17	1.0	0.09994			3		
065	081a065	CCV	mo_500			23-MAR-2006 22:46	1.0	1.0			3	2	
066	081a066	CCV	dsl_250			23-MAR-2006 23:14	1.0	1.0	1		3	3	
067	081a067	X	ccv			23-MAR-2006 23:42	1.0					2	
068	081a068	X	ccv			24-MAR-2006 00:10	1.0					3	

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Stds used: 1=S2885 2=S2971 3=S2755 4=S2871 5=S2432

SEQUENCE SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166117087 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	081b001	X	primer			22-MAR-2006 07:27	1.0						
002	081b002	X	ib			22-MAR-2006 07:55	1.0						
003	081b003	CCV	dsl_500			22-MAR-2006 08:27	1.0	1.0	6		3	1	
004	081b004	CCV	mo_500			22-MAR-2006 08:55	1.0	1.0	2		3	2	
005	081b005	X	ib			22-MAR-2006 12:12	1.0						
006	081b006	ICAL	dsl_10			22-MAR-2006 12:39	1.0	1.0				3	
007	081b007	ICAL	dsl_100			22-MAR-2006 13:07	1.0	1.0				4	
008	081b008	ICAL	dsl_250			22-MAR-2006 13:34	1.0	1.0				5	
009	081b009	ICAL	dsl_500			22-MAR-2006 14:02	1.0	1.0				6	
010	081b010	ICAL	dsl_1000			22-MAR-2006 14:30	1.0	1.0				7	
011	081b011	ICAL	dsl_2500			22-MAR-2006 14:57	1.0	1.0				8	
012	081b012	ICAL	dsl_5000			22-MAR-2006 15:25	1.0	1.0				9	
013	081b013	X	ib			22-MAR-2006 15:53	1.0						
014	081b014	ICV	dsl_500			22-MAR-2006 16:21	1.0	1.0			3	10	
015	081b015	X	ib			22-MAR-2006 16:49	1.0						10B
016	081b016	CCV	dsl_500			22-MAR-2006 17:17	1.0	1.0			3	1	
017	081b017	CCV	mo_500			22-MAR-2006 17:45	1.0	1.0	2		3	2	
018	081b018	CCV	ker_250			22-MAR-2006 18:43	1.0	1.0			3	11	
019	081b019	LCS	QC332247 S	111483	Soil	22-MAR-2006 19:18	1.0	0.09921			3		
020	081b020	BLANK	QC332246 S	111483	Soil	22-MAR-2006 19:45	1.0	0.1007	7		3		
021	081b021	MSS	185620-003 S	111483	Soil	22-MAR-2006 20:13	1.0	0.1001	9		3		
022	081b022	MS	QC332248 S	111483	Soil	22-MAR-2006 20:41	1.0	0.1006			3		
023	081b023	MSD	QC332249 S	111483	Soil	22-MAR-2006 21:09	1.0	0.1004			3		
024	081b024	X	ib			22-MAR-2006 21:37	1.0						
025	081b025	SAMPLE	185463-003 S	111513	Water	22-MAR-2006 22:05	1.0	0.005			3		
026	081b026	SAMPLE	185463-004 S	111513	Water	22-MAR-2006 22:33	1.0	0.005			3		
027	081b027	SAMPLE	185639-002	111483	Soil	22-MAR-2006 23:01	1.0	0.1002			3		
028	081b028	SAMPLE	185640-001	111483	Soil	22-MAR-2006 23:29	3.0	0.09974	3		3		19:BUNKC:=35667.6
029	081b029	SAMPLE	185640-002	111483	Soil	22-MAR-2006 23:57	20.0	0.2001	2		3		12:BUNKC:=30917.1
030	081b030	X	ib			23-MAR-2006 00:24	1.0						
031	081b031	CCV	dsl_1000			23-MAR-2006 00:52	1.0	1.0			3	12	

Stds used: 1=S2871 2=S2971 3=S2961 4=S2938 5=S2939 6=S2940 7=S2941 8=S2942 9=S2936 10=S2708 11=S2806 12=S2885

SEQUENCE SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166117087 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	081b032	CCV	mo_500			23-MAR-2006 01:20	1.0	1.0	2		3	2	
033	081b033	X	ccv			23-MAR-2006 01:48	1.0					12	
034	081b034	CCV	ker_250			23-MAR-2006 02:16	1.0	1.0			3	11	

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Stds used: 1=S2871 2=S2971 3=S2961 4=S2938 5=S2939 6=S2940 7=S2941 8=S2942 9=S2936 10=S2708 11=S2806 12=S2885

SEQUENCE SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166118528 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 23-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	082b001	X	primer			23-MAR-2006 07:28	1.0						
002	082b002	X	ib			23-MAR-2006 07:56	1.0						
003	082b003	CCV	dsl_500			23-MAR-2006 08:23	1.0	1.0	1		3	1	
004	082b004	CCV	mo_500			23-MAR-2006 08:51	1.0	1.0	2		3	2	
005	082b005	CCV	ker_250			23-MAR-2006 10:42	1.0	1.0			3	3	
006	082b006	BS	QC332370 S	111513	Water	23-MAR-2006 11:12	1.0	0.005	1		3		
007	082b007	BSD	QC332371 S	111513	Water	23-MAR-2006 11:40	1.0	0.005	1		3		
008	082b008	SAMPLE	185640-001	111483	Soil	23-MAR-2006 12:08	20.0	0.09974			3		1:BUNKC:=6756.17
009	082b009	SAMPLE	185640-002	111483	Soil	23-MAR-2006 12:35	100.0	0.2001			3		1:BUNKC:=6888.39
010	082b010	X	ib			23-MAR-2006 13:03	1.0						
011	082b011	CCV	dsl_1000			23-MAR-2006 13:31	1.0	1.0			3	4	
012	082b012	CCV	mo_500			23-MAR-2006 13:58	1.0	1.0	2		3	2	
013	082b013	CCV	ker_250			23-MAR-2006 14:26	1.0	1.0			3	3	
014	082b014	MS	QC331677 S	111348	Water	23-MAR-2006 15:35	1.0	0.005			3		
015	082b015	MSD	QC331678 S	111348	Water	23-MAR-2006 16:03	1.0	0.005			3		110
016	082b016	MS	QC331679 S	111348	Water	23-MAR-2006 16:30	1.0	0.005			3		
017	082b017	MSD	QC331680 S	111348	Water	23-MAR-2006 16:59	1.0	0.005			3		
018	082b018	MS	QC331681 S	111348	Water	23-MAR-2006 17:26	1.0	0.005			3		
019	082b019	MSD	QC331682 S	111348	Water	23-MAR-2006 17:54	1.0	0.005			3		
020	082b020	X	ib			23-MAR-2006 18:22	1.0						
021	082b021	CCV	jet_250			23-MAR-2006 18:49	1.0	1.0			3	5	
022	082b022	SAMPLE	185632-011	111566	Water	23-MAR-2006 19:17	1.0	0.005	1		3		5:BUNKC:=9705.38
023	082b023	SAMPLE	185632-010	111566	Water	23-MAR-2006 19:45	1.0	0.005		1	3		
024	082b024	SAMPLE	185632-009	111566	Water	23-MAR-2006 20:13	1.0	0.005		1	3		1:BUNKC:=5386.97
025	082b025	X	ib			23-MAR-2006 20:41	1.0						
026	082b026	CCV	dsl_250			23-MAR-2006 21:09	1.0	1.0	1		3	6	
027	082b027	CCV	mo_500			23-MAR-2006 21:36	1.0	1.0	2		3	2	
028	082b028	X	ccv			23-MAR-2006 22:04	1.0					6	
029	082b029	X	ccv			23-MAR-2006 22:32	1.0					2	
030	082b030	CCV	jet_250			23-MAR-2006 23:00	1.0	1.0			3	5	
031	082b031	BS	QC332567 S	111566	Water	23-MAR-2006 23:28	1.0	0.005	1	1	3		

Stds used: 1=S2871 2=S2971 3=S2806 4=S2885 5=S2432 6=S2755

SEQUENCE SUMMARY FOR 185408 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166118528 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 23-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	082b032	BSD	QC332568 S	111566	Water	23-MAR-2006 23:55	1.0	0.005	1	1	3		
033	082b033	BLANK	QC332566 S	111566	Water	24-MAR-2006 00:23	1.0	0.005	7		3		
034	082b034	SAMPLE	185632-009 S	111566	Water	24-MAR-2006 00:51	1.0	0.005			3	1:JP8:10=3894.45	
035	082b035	SAMPLE	185632-010 S	111566	Water	24-MAR-2006 01:19	1.0	0.005		1	3		
036	082b036	SAMPLE	185632-011 S	111566	Water	24-MAR-2006 01:47	1.0	0.005	1		3	5:BUNKC:=8571.20	
037	082b037	SAMPLE	185600-007 S	111427	Soil	24-MAR-2006 02:15	1.0	0.09913			3		
038	082b038	SAMPLE	185600-005 S	111434	Soil	24-MAR-2006 02:43	1.0	0.1001			3		
039	082b039	SAMPLE	185600-003 S	111434	Soil	24-MAR-2006 03:11	1.0	0.1003			3		
040	082b040	SAMPLE	185600-001 S	111427	Soil	24-MAR-2006 03:39	1.0	0.1006			3		
041	082b041	X	ib			24-MAR-2006 04:07	1.0						
042	082b042	CCV	dsl_500			24-MAR-2006 04:35	1.0	1.0			3	1	
043	082b043	CCV	mo_500			24-MAR-2006 05:03	1.0	1.0	2		3	2	
044	082b044	X	ccv			24-MAR-2006 05:30	1.0					1	
045	082b045	X	ccv			24-MAR-2006 05:58	1.0					2	
046	082b046	CCV	jet_250			24-MAR-2006 06:26	1.0	1.0			3	5	

Stds used: 1=S2871 2=S2971 3=S2806 4=S2885 5=S2432 6=S2755

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185408 TEHM Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	MO:2	HXCS	
185408-001	GC17A	03/17/06 23:00	1.0	+	+	+	
185408-002	GC17A	03/20/06 19:22	1.0	+	+	+	
185408-003	GC17A	03/17/06 23:28	1.0	+	+	+	
185408-004	GC17A	03/17/06 23:55	1.0	+	+	+	
185408-005	GC17A	03/18/06 00:22	1.0	+	+	+	
185408-008	GC17A	03/20/06 19:50	1.0	+	+	+	
185408-009	GC17A	03/18/06 00:49	1.0	+	+	+	
185408-010	GC17A	03/20/06 20:17	1.0	+	+	+	
185408-011	GC17A	03/18/06 01:17	1.0	+	+	+	
QC331673	GC11A	03/16/06 11:17	1.0	+	+	+	
QC331674	GC11A	03/16/06 11:45	1.0	+		+	
QC331675	GC11A	03/23/06 17:38	1.0	+		+	
QC331676	GC11A	03/23/06 18:07	1.0	+		+	
QC331677	GC15B	03/23/06 15:35	1.0	+		+	
QC331678	GC15B	03/23/06 16:03	1.0	+		+	
QC331679	GC15B	03/23/06 16:30	1.0	+		+	
QC331680	GC15B	03/23/06 16:59	1.0	+		+	
QC331681	GC15B	03/23/06 17:26	1.0	+		+	
QC331682	GC15B	03/23/06 17:54	1.0	+		+	

Curtis & Tompkins Laboratories Sample Preparation Summary 16-MAR-2006 18:11

Batch Number : 111348
Date Extracted: 15-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : N/A
Bgroup : TEH
Units : mL
Clean-up :

Spike #1 ID : S2903A
Spike #2 ID : S2826A
Spike #3 ID :
SOP Version : TEH50LL_rv10

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185408-001			Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185408-002			Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	MSS
185408-003			Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185408-004			Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185408-005			Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185408-008			Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	MSS
185408-009			Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185408-010			Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	5	.5	0		TEHM	3630C	MSS
185408-011			Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185525-001			LFR Levine Fricke	Water	500	mL	2.5	0.005000	1	5	.5	0		TEH	3630C	
185525-002			LFR Levine Fricke	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH	3630C	MSS
185525-004			LFR Levine Fricke	Water	500	mL	2.5	0.005000	1	5	.5	0		TEH	3630C	
185525-005			LFR Levine Fricke	Water	500	mL	2.5	0.005000	1	5	.5	0		TEH	3630C	
185525-007			LFR Levine Fricke	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH	3630C	
185525-008			LFR Levine Fricke	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH	3630C	
185525-010			LFR Levine Fricke	Water	500	mL	2.5	0.005000	1	5	.5	0		TEH	3630C	
185525-011			LFR Levine Fricke	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH	3630C	
185525-012			LFR Levine Fricke	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH	3630C	
185548-001			Iris Environmental	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH	3630C	
185548-002			Iris Environmental	Water	500	mL	2.5	0.005000	1	5	.5	0		TEH	3630C	
QC331673	BLANK			Water	500	mL	2.5	0.005000	1		.5	0		TEH	3630C	
QC331674	LCS			Water	500	mL	2.5	0.005000	1		.5	.5		TEH	3630C	
QC331675	MS	of 185408-002		Water	500	mL	2.5	0.005000	1	6	.5	.5		TEH	3630C	
QC331676	MSD	of 185408-002		Water	500	mL	2.5	0.005000	1	6	.5	.5		TEH	3630C	
QC331677	MS	of 185408-008		Water	500	mL	2.5	0.005000	1	6	.5	.5		TEH	3630C	
QC331678	MSD	of 185408-008		Water	500	mL	2.5	0.005000	1	6	.5	.5		TEH	3630C	
QC331679	MS	of 185408-010		Water	500	mL	2.5	0.005000	1	5	.5	.5		TEH	3630C	
QC331680	MSD	of 185408-010		Water	500	mL	2.5	0.005000	1	5	.5	.5		TEH	3630C	
QC331681	MS	of 185525-002		Water	500	mL	2.5	0.005000	1	5	.5	.5		TEH	3630C	
QC331682	MSD	of 185525-002		Water	500	mL	2.5	0.005000	1	5	.5	.5		TEH	3630C	

Prep Chemist: Jessie O'Brien Mee Reviewed By: [signature] Date: 03/17/06

Relinquished By: [signature] Received By: [signature] Date: 3/17/06

Curtis & Tompkins, Ltd

TEH WATER PREP LOG

BK2279

LIMS Batch No: 111348
LIMS Analysis: TEH/M
Extracted by: JDM
Date Extracted: 15 Mar 06

Extraction Method:
☐ mod. EPA 3510 sep. funnel
☒ mod. EPA 3520 cont. L/L
☐ _____

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Cleanup Method (if needed):
☒ EPA 3630 Silica Gel
☐ Other _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185408-001 N	500	6	2.5	X	
02 AB					MSS
03 N					
04 M					
05 M					
08 AU					MSS
09 M					
10 S		5			MSS
11 G		6			
185525-001 H		5			
02 O		5			MSS
04 H		6			
05		6			
07		5			
08		6			
10					
11					
12		5			
MB OC331673		NA			*
LCS 74					*
MS 75		6			185408-002 AC
MSD 76					
MS 77					185408-008 AV
MSD 78					

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.5 mL of TEH_SURR was added to all samples	S2903A	JDM 3/15/06
0.05 mL of TEH_SP was added to all spikes	S2826A	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	JTBA49034	
☒ Samples were continually extracted about 450 mL of CH_2Cl_2	EM46014	
Extraction Start Time:	1420* / 1530	
Extraction End Time:	0820* / 0945	DLM 3/16/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	N/A	CFL 3/16/06
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM45/18532	
Concentrated to volumes as noted above	✓	

Extraction Chemist 3/15/06 Date

Contined from Page —
Continued on Page 18

Reviewed by 03/17/06 Date

Curtis & Tompkins, Ltd

TEH WATER PREP LOG

BK2279

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LIMS Batch No: 111348
LIMS Analysis: ~~TEH~~/M
Extracted by: JDM
Date Extracted: 15 Mar 06

Extraction Method:
- ☐ mod. EPA 3510 sep. funnel
- ☒ mod. EPA 3520 cont. L/L
- ☐ _____

Cleanup Method (if needed):
- ☒ EPA 3630 Silica Gel
- ☐ Other _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
MS AC331679	500	5	2.5	X	185408-010 T
MSD 80	↓	↓	↓	↓	↓
MS 81	↓	↓	↓	↓	185525-002 P
MSD 82	↓	↓	↓	↓	↓
185548-001 J	↓	↓	↓	X	*
↓ 02 E	↓	↓	↓	X	*

	Mfg & Lot# / LIMS # / Time	Date/ Initials
_____ mL of TEH_SURR was added to all samples		
_____ mL of TEH_SP was added to all spikes		
pH of all samples adjusted to pH ≤ 2 with H_2SO_4		
☐ Samples were continually extracted about 450 mL of CH_2Cl_2	See previous page	
Extraction Start Time:		
Extraction End Time:	JDM 3/15/06	
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2		
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4		
Concentrated to volumes as noted above		

Jennie Nee 3/15/06
Extraction Chemist Date

Contined from Page 17
Continued on Page —

3/17/06
Reviewed by Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: CFL
Cleanup Date: 3/16/06

Benchbook # **BK 2272**
Page 82

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
185548-001	111348	1.0	1.0	
↓ -002	↓	↓	↓	

CFL 3/16/06

☐ Extracts were cleaned up using C&T assembled ____ g columns
☑ Extracts were cleaned up using 1.0 g cartridges
Extracts were eluted with 4.0 mL CH_2Cl_2
Concentrated to volumes as noted above ✓

Mfg & Lot # / Time / Program	Initials / Date
N/A	CFL 3/16/06
SP6572	↓
EP146014	

CFL 3/16/06
Extraction Chemist / Date

Continued from page ____
Continued on page ____

Jennifer Lee 3/16/06
Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: DLM
Cleanup Date: 3/16/06

Benchbook # **BK 2272**
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Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
MB QC331673	111348	1.0	1.0	
LCS ↓ 4	↓	1.0	1.0	

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: JOM
Cleanup Date: 16 Mar 06

Benchbook # **BK 2272**
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Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
185408-001	111348	1.0	1.0	
02				MSS
03				
04				
05				
08				MSS
09				
10				MSS
11				
185525-001				
02				MSS
04				
05				
07				
08				
10				
11				
12				
~~MB QC3316~~ JOM 3/16/06				
~~LCS~~				~~Not included JOM 3/16/06~~
MS QC3316175				185408-002
MSD 76				↓
MS 77				185408-008
MSD 78				↓
MS 79				185408-010
MSD 80				↓
MS 81				185525-002
MSD 82				↓
			JOM 3/16/06	

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ____ g columns	NA	JOM 3/16/06
☒ Extracts were cleaned up using 1.0 g cartridges	SP6627	↓
Extracts were eluted with 4.0 mL CH_2Cl_2	EM46014	
Concentrated to volumes as noted above		↓

Jennifer Mee 3/16/06
Extraction Chemist / Date

Continued from page ____
Continued on page ____

3/20/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water
As of 04/05/06

Analyte	Units	GC11A	GC13B	GC15B	GC17A
JP-5 C10-C16	ug/L	17	16	7.9	5.4
Jet Fuel A C10-C16	ug/L	14	30	24	33
Diesel C10-C20	ug/L		16	13	19
Diesel C10-C22	ug/L	21	18	19	27
Diesel C10-C28	ug/L	18	11	22	37
Diesel C10-C24	ug/L	21	15	18	33
Diesel C12-C24	ug/L	20	13	20	33
Diesel C12-C32	ug/L	22	14	25	23
Diesel C12-C36	ug/L	13	17		
Diesel C12-C28	ug/L		31		
Diesel C12-C22	ug/L	19	17	20	25
Motor Oil C20-C36	ug/L	40	50	29	53
Motor Oil C28-C36	ug/L	42	55	33	76
Motor Oil C24-C36	ug/L	42	55	33	76
Motor Oil C22-C32	ug/L	36	51	21	50
Motor Oil C22-C36	ug/L	41	52	30	51
Hexacosane	ug/L	4.5	3.4	4.2	3.1

VOLATILE ORGANIC COMPOUNDS

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	600GW106	Batch#:	111173
Lab ID:	185408-001	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Analyzed:	03/10/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	111	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	106	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	600GW105	Batch#:	111173
Lab ID:	185408-003	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Analyzed:	03/10/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	109	76-114
Toluene-d8	102	88-110
Bromofluorobenzene	107	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	231GW21	Batch#:	111229
Lab ID:	185408-004	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Analyzed:	03/13/06
Diln Fac:	2.000		

Analyte	Result	RL	MDL
Chloromethane	ND	2.0	
Vinyl Chloride	ND	1.0	
Bromomethane	ND	2.0	
Chloroethane	ND	2.0	
Acetone	ND	20	
1,1-Dichloroethene	ND	1.0	
Methylene Chloride	ND	8.0	
Carbon Disulfide	ND	1.0	
MTBE	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
Vinyl Acetate	ND	20	
1,1-Dichloroethane	ND	1.0	
2-Butanone	ND	20	
cis-1,2-Dichloroethene	ND	1.0	
Chloroform	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Carbon Tetrachloride	ND	1.0	
1,2-Dichloroethane	ND	1.0	
Benzene	89	1.0	0.2
Trichloroethene	ND	1.0	
1,2-Dichloropropane	ND	1.0	
Bromodichloromethane	ND	1.0	
4-Methyl-2-Pentanone	ND	20	
cis-1,3-Dichloropropene	ND	1.0	
Toluene	3.4	1.0	
trans-1,3-Dichloropropene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
2-Hexanone	ND	20	
Tetrachloroethene	ND	1.0	
Dibromochloromethane	ND	1.0	
Chlorobenzene	ND	1.0	
Ethylbenzene	4.0	1.0	
Styrene	ND	1.0	
Bromoform	ND	2.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Xylene (total)	1.8	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	107	76-114
Toluene-d8	103	88-110
Bromofluorobenzene	104	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DUP0308061A	Batch#:	111229
Lab ID:	185408-005	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Analyzed:	03/13/06
Diln Fac:	2.000		

Analyte	Result	RL	MDL
Chloromethane	ND	2.0	
Vinyl Chloride	ND	1.0	
Bromomethane	ND	2.0	
Chloroethane	ND	2.0	
Acetone	ND	20	
1,1-Dichloroethene	ND	1.0	
Methylene Chloride	ND	8.0	
Carbon Disulfide	ND	1.0	
MTBE	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
Vinyl Acetate	ND	20	
1,1-Dichloroethane	ND	1.0	
2-Butanone	ND	20	
cis-1,2-Dichloroethene	ND	1.0	
Chloroform	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Carbon Tetrachloride	ND	1.0	
1,2-Dichloroethane	ND	1.0	
Benzene	96	1.0	0.2
Trichloroethene	ND	1.0	
1,2-Dichloropropane	ND	1.0	
Bromodichloromethane	ND	1.0	
4-Methyl-2-Pentanone	ND	20	
cis-1,3-Dichloropropene	ND	1.0	
Toluene	3.5	1.0	
trans-1,3-Dichloropropene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
2-Hexanone	ND	20	
Tetrachloroethene	ND	1.0	
Dibromochloromethane	ND	1.0	
Chlorobenzene	ND	1.0	
Ethylbenzene	4.3	1.0	
Styrene	ND	1.0	
Bromoform	ND	2.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Xylene (total)	1.9	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-120
1,2-Dichloroethane-d4	102	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	100	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DAESP03	Batch#:	111173
Lab ID:	185408-008	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Analyzed:	03/10/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	110	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	105	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DUP0308063A	Batch#:	111173
Lab ID:	185408-009	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Analyzed:	03/10/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	109	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	106	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC330927	Batch#:	111173
Matrix:	Water	Analyzed:	03/10/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	106	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	103	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331162	Batch#:	111229
Matrix:	Water	Analyzed:	03/13/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-120
1,2-Dichloroethane-d4	103	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	103	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC330926	Batch#:	111173
Matrix:	Water	Analyzed:	03/10/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	27.52	110	65-135
Benzene	25.00	25.28	101	65-135
Trichloroethene	25.00	26.20	105	65-135
Toluene	25.00	25.23	101	65-135
Chlorobenzene	25.00	24.90	100	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-120
1,2-Dichloroethane-d4	104	76-114
Toluene-d8	102	88-110
Bromofluorobenzene	101	86-115

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	111229
Units:	ug/L	Analyzed:	03/13/06
Diln Fac:	1.000		

Type: BS Lab ID: QC331160

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	27.70	111	65-135
Benzene	25.00	27.07	108	65-135
Trichloroethene	25.00	28.22	113	65-135
Toluene	25.00	27.34	109	65-135
Chlorobenzene	25.00	26.81	107	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-120
1,2-Dichloroethane-d4	101	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	97	86-115

Type: BSD Lab ID: QC331161

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	25.03	100	65-135	10	35
Benzene	25.00	24.63	99	65-135	9	35
Trichloroethene	25.00	25.84	103	65-135	9	35
Toluene	25.00	24.83	99	65-135	10	35
Chlorobenzene	25.00	25.58	102	65-135	5	35

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-120
1,2-Dichloroethane-d4	97	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	98	86-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DAESP03	Batch#:	111173
MSS Lab ID:	185408-008	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Analyzed:	03/10/06
Diln Fac:	1.000		

Type: MS Lab ID: QC330928

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.1010	25.00	27.09	108	65-135
Benzene	<0.1164	25.00	25.49	102	65-135
Trichloroethene	<0.1059	25.00	26.92	108	65-135
Toluene	<0.06248	25.00	25.68	103	65-135
Chlorobenzene	<0.1633	25.00	25.75	103	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	105	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	101	86-115

Type: MSD Lab ID: QC330929

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	26.83	107	65-135	1	35
Benzene	25.00	24.48	98	65-135	4	35
Trichloroethene	25.00	25.72	103	65-135	5	35
Toluene	25.00	24.59	98	65-135	4	35
Chlorobenzene	25.00	24.52	98	65-135	5	35

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-120
1,2-Dichloroethane-d4	101	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	100	86-115

RPD= Relative Percent Difference

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\020106.b\HB107.D

Page 2

ICAL

Date : 01-FEB-2006 14:11

Client ID: bfb tune std

Instrument: MSVOA08.i

Sample Info: BFB,S2327

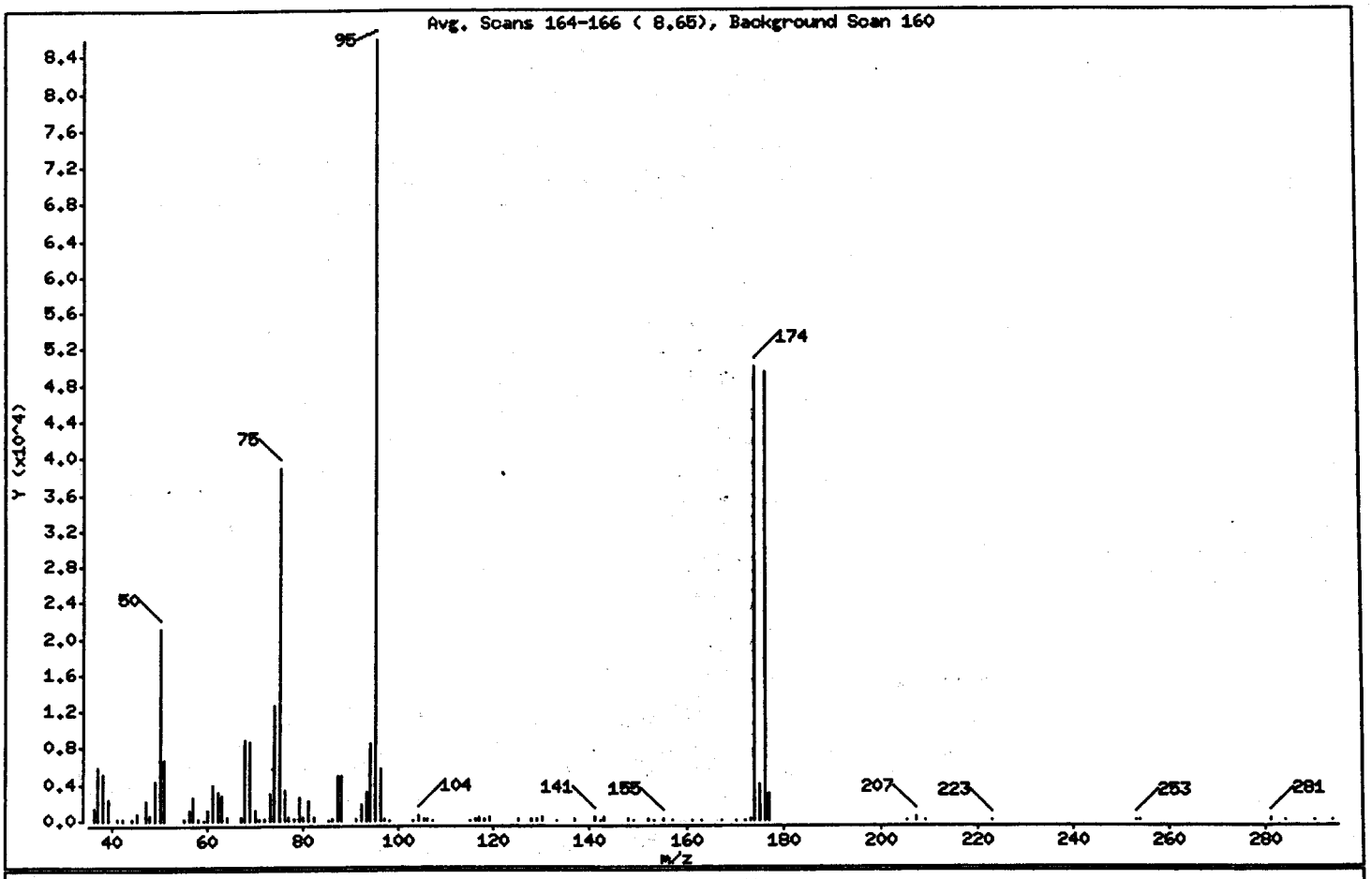
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.65
75	30.00 - 60.00% of mass 95	45.32
96	5.00 - 9.00% of mass 95	6.71
173	Less than 2.00% of mass 174	0.17 (0.29)
174	50.00 - 99.99% of mass 95	58.22
175	5.00 - 9.00% of mass 174	4.51 (7.74)
176	95.01 - 100.99% of mass 174	57.53 (98.81)
177	5.00 - 9.00% of mass 176	3.50 (6.09)

a 02/02/06

LW 2-1-06

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\031006.b\HCA02.D

Date : 10-MAR-2006 07:33

Client ID: bfb tune std

Instrument: MSVOA08.i

Sample Info: BFB,S2327

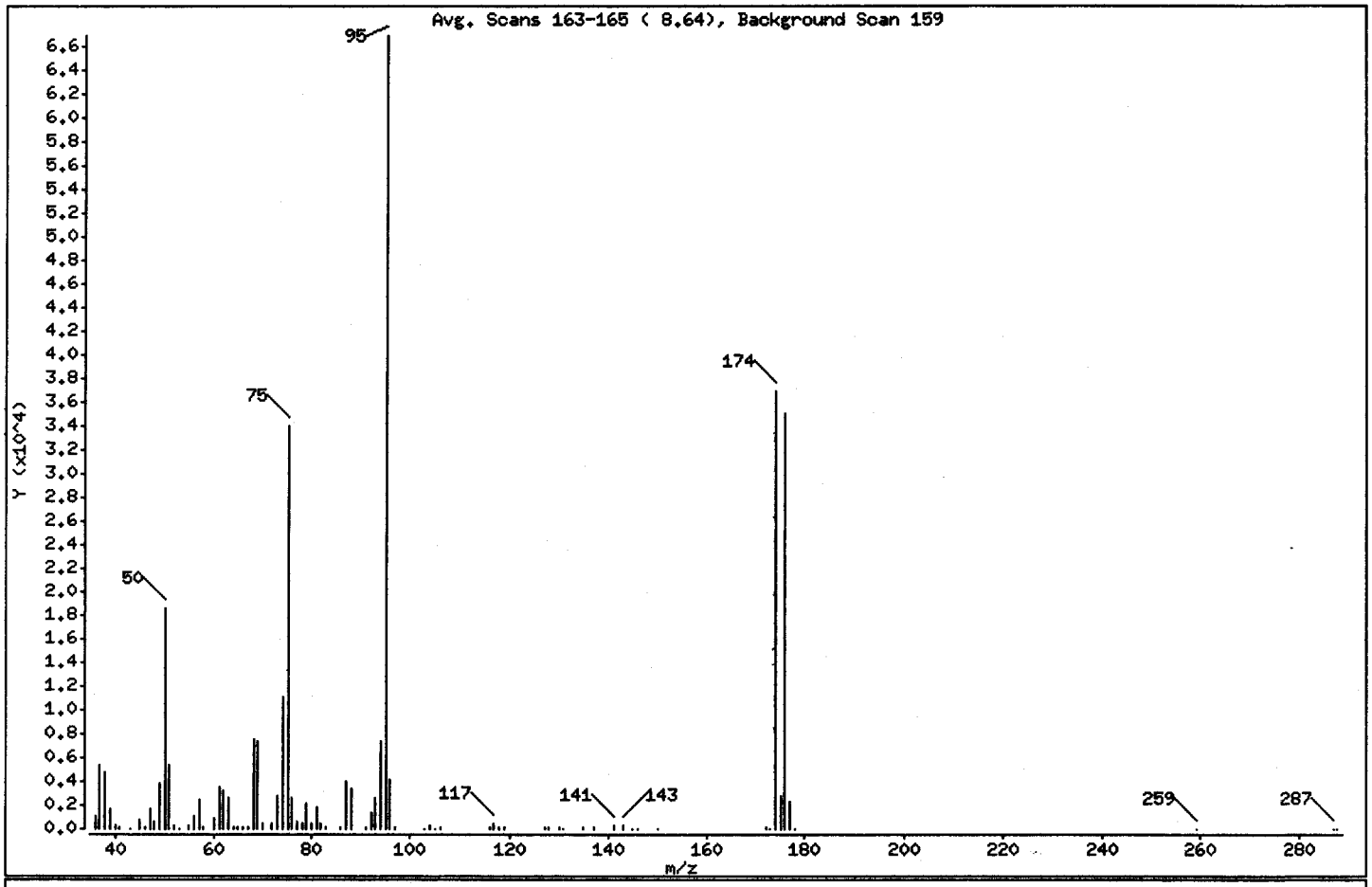
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	27.75
75	30.00 - 60.00% of mass 95	50.88
96	5.00 - 9.00% of mass 95	6.12
173	Less than 2.00% of mass 174	0.09 (0.15)
174	50.00 - 99.99% of mass 95	55.07
175	5.00 - 9.00% of mass 174	4.08 (7.40)
176	95.01 - 100.99% of mass 174	52.53 (95.39)
177	5.00 - 9.00% of mass 176	3.42 (6.52)

Q 03/13/06

LW 3-10-06

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\031306.b\HCD02.D

Date : 13-MAR-2006 08:46

Client ID: bfb tune std

Instrument: MSVOA08.i

Sample Info: BFB,S2327

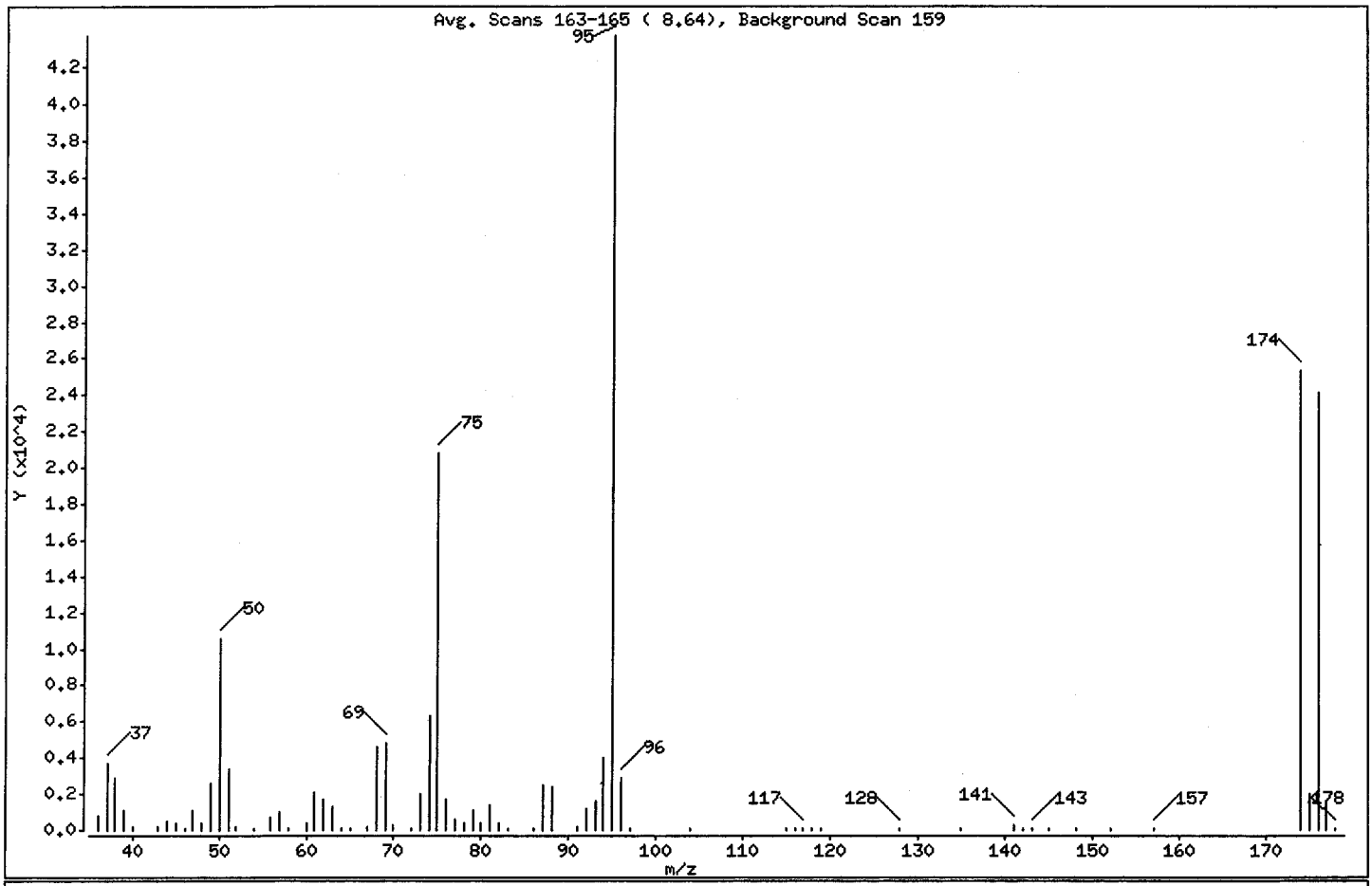
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.12
75	30.00 - 60.00% of mass 95	47.49
96	5.00 - 9.00% of mass 95	6.74
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	57.85
175	5.00 - 9.00% of mass 174	4.70 (8.12)
176	95.01 - 100.99% of mass 174	55.11 (95.26)
177	5.00 - 9.00% of mass 176	3.66 (6.65)

LW 3-14-06

3/13/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 8260B

Inst : MSVOA08 Name : 826GOX8
Calnum : 476046588001 Date : 01-FEB-2006 15:57 Type : WATER Inj Vol: 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	hb110	476046588010	1.0/0.5 PPB	01-FEB-2006 15:57	S2349 (1000000X), S2552 (500000X), S2028 (1000000X), S2284 (5000X)
L2	hb111	476046588011	2 PPB	01-FEB-2006 16:34	S2349 (250000X), S2552 (250000X), S2028 (500000X), S2284 (5000X)
L3	hb112	476046588012	5 PPB	01-FEB-2006 17:10	S2349 (100000X), S2552 (100000X), S2028 (200000X), S2284 (5000X)
L4	hb113	476046588013	10 PPB	01-FEB-2006 17:47	S2349 (50000X), S2552 (50000X), S2028 (100000X), S2284 (5000X)
L5	hb114	476046588014	20 PPB	01-FEB-2006 18:24	S2349 (25000X), S2552 (25000X), S2028 (50000X), S2284 (5000X)
L6	hb115	476046588015	50 PPB	01-FEB-2006 19:01	S2349 (10000X), S2552 (10000X), S2028 (20000X), S2284 (5000X)
L7	hb116	476046588016	75 PPB	01-FEB-2006 19:39	S2349 (6667X), S2552 (6667X), S2028 (13330X), S2284 (5000X)
L8	hb117	476046588017	100 PPB	01-FEB-2006 20:16	S2349 (5000X), S2552 (5000X), S2028 (10000X), S2284 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Freon 12	0.4151m	0.4864m	0.5409m	0.6541	0.6818	0.6644	0.6143		LINR	R	-0.14708	1.583834		ug/L	0.5796	0.997	0.050	0.99	15	
Chloromethane	1.1138m	0.9813m	0.9454m	0.9524	0.9198	0.8396	0.7439	0.7086	AVRG	R		1.110360		ug/L	0.9006	15	0.10	0.99	15	
Vinyl Chloride	0.6240m	0.6235m	0.6467m	0.7372	0.7211	0.7003	0.6363	0.6098	AVRG	R		1.509729		ug/L	0.6624	7	0.050	0.99	15	
Bromomethane	0.2005m	0.1667m	0.2456m	0.2780m	0.2834m	0.3154	0.3227		QUAD	R	0.825044	3.330394	-0.01132	ug/L	0.2589	1.000	0.050	0.99	15	
Chloroethane	0.4178m	0.4212m	0.3688m	0.4309m	0.4142m	0.3899	0.3490	0.3338	AVRG	R		2.559573		ug/L	0.3907	9	0.050	0.99	15	
Trichlorofluoromethane	0.3799	0.4065	0.4641	0.5536	0.5569	0.5281	0.4977	0.4728	AVRG	R		2.072747		ug/L	0.4825	13	0.050	0.99	15	135
Acetone			0.3077	0.3039	0.3072	0.3220	0.2828	0.2890	AVRG	R		3.309947		ug/L	0.3021	5	0.050	0.99	15	
Freon 113	0.1178m	0.1580	0.2916	0.4237	0.4352	0.4515	0.4332		LINR	R	0.777856	2.248929		ug/L	0.3302	0.999	0.050	0.99	15	
1,1-Dichloroethene	0.2897m	0.2779	0.3330	0.4181	0.4044	0.4116	0.3879	0.3575	AVRG	R		2.777622		ug/L	0.3600	15	0.050	0.99	15	
Methylene Chloride		0.7334m	0.6342	0.5835	0.5733	0.5423	0.5051	0.5046	AVRG	R		1.717212		ug/L	0.5823	14	0.050	0.99	15	
Carbon Disulfide	1.5006	1.5184	1.7653	2.0342	2.0276	1.9857	1.8412	1.7034	AVRG	R		0.556466		ug/L	1.7971	12	0.050	0.99	15	
MTBE	1.4171	1.4923	1.5365	1.5516	1.5167	1.4561	1.3333	1.3183	AVRG	R		0.688354		ug/L	1.4527	6	0.050	0.99	15	
trans-1,2-Dichloroethene	0.4628	0.4006	0.4450	0.4870	0.4752	0.4722	0.4570	0.4347	AVRG	R		2.201178		ug/L	0.4543	6	0.050	0.99	15	
Vinyl Acetate	1.5328	1.6819	1.7830	1.9063	1.8890	1.6148	1.4593	1.2739	AVRG	R		0.608787		ug/L	1.6426	13	0.050	0.99	15	
1,1-Dichloroethane	0.9496	0.9983	1.0666	1.0794	1.0409	1.0274	0.9539	0.8888	AVRG	R		0.999388		ug/L	1.0006	7	0.10	0.99	15	
2-Butanone		0.4880	0.4913	0.4731	0.4622	0.4595	0.4176	0.4111	AVRG	R		2.185554		ug/L	0.4575	7	0.050	0.99	15	
2,2-Dichloropropane	0.5122	0.5059	0.6010	0.6861	0.6552	0.6356	0.5833	0.5041	AVRG	R		1.708150		ug/L	0.5854	12	0.050	0.99	15	
cis-1,2-Dichloroethene	0.5183	0.4752	0.4877	0.5292	0.5163	0.5092	0.4866	0.4712	AVRG	R		2.003118		ug/L	0.4992	4	0.050	0.99	15	
Chloroform	0.8148	0.8255	0.8782	0.8968	0.8833	0.8371	0.7744	0.7315	AVRG	R		1.204527		ug/L	0.8302	7	0.050	0.99	15	
Bromochloromethane	0.2142	0.2156	0.2399	0.2331	0.2382	0.2343	0.2214	0.2196	AVRG	R		4.404502		ug/L	0.2270	5	0.050	0.99	15	
1,1,1-Trichloroethane	0.4001	0.4519	0.5032	0.6053	0.5896	0.5773	0.5547	0.4988	AVRG	R		1.913520		ug/L	0.5226	14	0.050	0.99	15	
1,1-Dichloropropene	0.2447	0.2083	0.2547	0.3290	0.3162	0.3280	0.3070		LINR	R	0.125587	3.178137		ug/L	0.2840	0.998	0.050	0.99	15	
Carbon Tetrachloride	0.1425	0.1255	0.1684	0.2209	0.2111	0.2212	0.2119		LINR	R	0.382218	4.625812		ug/L	0.1859	0.999	0.050	0.99	15	
1,2-Dichloroethane	0.3290	0.3566	0.3730	0.3832	0.3600	0.3471	0.3184	0.3089	AVRG	R		2.881620		ug/L	0.3470	8	0.050	0.99	15	
Benzene	0.8564	0.8089	0.8496	0.9091	0.8606	0.8489	0.8112	0.7458	AVRG	R		1.195760		ug/L	0.8363	6	0.050	0.99	15	
Trichloroethene	0.1627	0.1732	0.1965	0.2227	0.2156	0.2238	0.2183	0.2074	AVRG	R		4.937778		ug/L	0.2025	11	0.050	0.99	15	

 ICAL-OK ICV- Freon 12 ↓, Cyclohexanone ↓ CUSACE Chloromethane ↓)

LW 2-2-06

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
1,2-Dichloropropane	0.2831	0.2886	0.2996	0.3029	0.2842	0.2919	0.2729	0.2684	AVRG	R		3.490764		ug/L	0.2865	4	0.050	0.99	15	
Bromodichloromethane	0.2953	0.3052	0.3071	0.3218	0.3140	0.3067	0.2885	0.2923	AVRG	R		3.290899		ug/L	0.3039	4	0.050	0.99	15	
Dibromomethane	0.1424	0.1637	0.1655	0.1683	0.1628	0.1612	0.1518	0.1548	AVRG	R		6.296610		ug/L	0.1588	5	0.050	0.99	15	
2-Chloroethylvinylether	0.0286	0.0397	0.0587	0.0674	0.0874	0.0965	0.0966	0.1118	QUAD	R	1.104955	11.74411	-0.25468	ug/L	0.0733	0.999	0.050	0.99	15	
4-Methyl-2-Pentanone		0.3873	0.4538	0.4258	0.4349	0.4090	0.3915	0.3949	AVRG	R		2.416124		ug/L	0.4139	6	0.050	0.99	15	
Tetramethyl THF	0.7111	0.7195	0.7534	0.7676	0.7541	0.6961	0.6362	0.6192	AVRG	R		1.414150		ug/L	0.7071	8	0.050	0.99	15	
cis-1,3-Dichloropropene	0.3819	0.3876	0.4034	0.4195	0.4083	0.3952	0.3796	0.3739	AVRG	R		2.540201		ug/L	0.3937	4	0.050	0.99	15	
Toluene	0.4245	0.4067	0.4255	0.4699	0.4793	0.4874	0.4630	0.4407	AVRG	R		2.224154		ug/L	0.4496	7	0.050	0.99	15	
trans-1,3-Dichloropropene	0.3598	0.3456	0.3725	0.3922	0.3717	0.3707	0.3424	0.3411	AVRG	R		2.762469		ug/L	0.3620	5	0.050	0.99	15	
1,1,2-Trichloroethane	0.1290	0.1162	0.1201	0.1208	0.1211	0.1220	0.1153	0.1152	AVRG	R		8.335518		ug/L	0.1200	4	0.050	0.99	15	
2-Hexanone		0.3203	0.3488	0.3271	0.3545	0.3556	0.3197	0.3266	AVRG	R		2.975441		ug/L	0.3361	5	0.050	0.99	15	
1,3-Dichloropropane	0.4389	0.4620	0.4726	0.4827	0.4706	0.4683	0.4380	0.4251	AVRG	R		2.186803		ug/L	0.4573	4	0.050	0.99	15	
Tetrachloroethene	0.1024	0.1086	0.1325	0.1746	0.1691	0.1910	0.1890	0.1735	LINR	R	0.397786	5.502124		ug/L	0.1551	0.996	0.050	0.99	15	
Dibromochloromethane	0.1987	0.2100	0.2161	0.2254	0.2253	0.2312	0.2229	0.2249	AVRG	R		4.559602		ug/L	0.2193	5	0.050	0.99	15	
1,2-Dibromoethane	0.2001	0.2008	0.2119	0.2211	0.2157	0.2180	0.2138	0.2124	AVRG	R		4.723125		ug/L	0.2117	4	0.050	0.99	15	
Chlorobenzene	0.5567	0.5160	0.5276	0.5654	0.5698	0.5729	0.5488	0.5289	AVRG	R		1.823986		ug/L	0.5482	4	0.30	0.99	15	
1,1,1,2-Tetrachloroethane	0.1605	0.1693	0.1869	0.1887	0.1896	0.2002	0.1896	0.1895	AVRG	R		5.426352		ug/L	0.1843	7	0.050	0.99	15	
Ethylbenzene	0.9026	0.8113	0.8857	0.9985	0.9991	1.0216	0.9315	0.8607	AVRG	R		1.079459		ug/L	0.9264	8	0.050	0.99	15	
m,p-Xylenes	0.2767	0.2810	0.3029	0.3456	0.3529	0.3666	0.3329	0.3116	AVRG	R		3.112625		ug/L	0.3213	10	0.050	0.99	15	
o-Xylene	0.2912	0.2939	0.3043	0.3348	0.3390	0.3596	0.3342	0.3174	AVRG	R		3.107514		ug/L	0.3218	8	0.050	0.99	15	
Styrene	0.5548	0.5275	0.5636	0.6055	0.6189	0.6352	0.5876	0.5647	AVRG	R		1.717548		ug/L	0.5822	6	0.050	0.99	15	
Bromoform	0.1688	0.1316	0.1365	0.1390	0.1418	0.1504	0.1438	0.1479	AVRG	R		6.897647		ug/L	0.1450	8	0.10	0.99	15	
Isopropylbenzene	1.5438	1.4555	1.6073	2.0268	1.9776	2.0193	1.9027	1.6939	AVRG	R		0.562316		ug/L	1.7784	13	0.050	0.99	15	
1,1,2,2-Tetrachloroethane	0.9032	0.8304	0.8962	0.9078	0.8967	0.8572	0.8192	0.7941	AVRG	R		1.158629		ug/L	0.8631	5	0.30	0.99	15	
1,2,3-Trichloropropane	0.1668	0.1926	0.2120	0.2073	0.2063	0.2019	0.1926	0.1905	AVRG	R		5.095546		ug/L	0.1962	7	0.050	0.99	15	
Propylbenzene	2.0577	1.8904	2.2141	2.6620	2.6527	2.5749	2.3658	2.0471	AVRG	R		0.433261		ug/L	2.3081	13	0.050	0.99	15	
Bromobenzene	0.4531	0.4099	0.4353	0.4517	0.4577	0.4711	0.4550	0.4423	AVRG	R		2.237073		ug/L	0.4470	4	0.050	0.99	15	
1,3,5-Trimethylbenzene	1.2777	1.2852	1.3139	1.6063	1.5918	1.6205	1.4605	1.3280	AVRG	R		0.696621		ug/L	1.4355	11	0.050	0.99	15	
2-Chlorotoluene	1.7862	1.5835	1.6041	1.7827	1.7598	1.7075	1.5311	1.3994	AVRG	R		0.608172		ug/L	1.6443	8	0.050	0.99	15	
4-Chlorotoluene	1.6456	1.4988	1.5292	1.6648	1.6162	1.6258	1.5251	1.4182	AVRG	R		0.638789		ug/L	1.5655	5	0.050	0.99	15	
tert-Butylbenzene	0.8774	0.8388	1.0060	1.2841	1.2444	1.3217	1.2677		LINR	R	0.450397	0.773405		ug/L	1.1200	0.999	0.050	0.99	15	
1,2,4-Trimethylbenzene	1.4339	1.3416	1.4258	1.6135	1.5924	1.5935	1.5202	1.4123	AVRG	R		0.670398		ug/L	1.4917	7	0.050	0.99	15	
sec-Butylbenzene	1.2475	1.3272	1.6220	2.1791	2.1613	2.2313	2.1074		LINR	R	0.327947	0.462987		ug/L	1.8394	0.998	0.050	0.99	15	
para-Isopropyl Toluene	1.0840	1.0360	1.2061	1.5480	1.5565	1.6336	1.5342		LINR	R	0.356802	0.634935		ug/L	1.3712	0.998	0.050	0.99	15	
1,3-Dichlorobenzene	0.8091	0.7340	0.8052	0.8442	0.8505	0.8577	0.8387	0.8175	AVRG	R		1.220070		ug/L	0.8196	5	0.050	0.99	15	
1,4-Dichlorobenzene	0.7822	0.8183	0.8098	0.9145	0.8748	0.8893	0.8767	0.8502	AVRG	R		1.173746		ug/L	0.8520	5	0.050	0.99	15	
n-Butylbenzene	1.0807	1.0327	1.2935	1.7274	1.6448	1.6976	1.6096		LINR	R	0.207835	0.608073		ug/L	1.4409	0.999	0.050	0.99	15	
1,2-Dichlorobenzene	0.7369	0.7380	0.7629	0.8303	0.8134	0.8229	0.8021	0.7916	AVRG	R		1.270222		ug/L	0.7873	5	0.050	0.99	15	
1,2-Dibromo-3-Chloropropane	0.1732	0.1755	0.1583	0.1618	0.1603	0.1554	0.1438	0.1452	AVRG	R		6.281555		ug/L	0.1592	7	0.050	0.99	15	
1,2,4-Trichlorobenzene	0.3325	0.3446	0.3744	0.4148	0.4141	0.4276	0.4232	0.4135	AVRG	R		2.544061		ug/L	0.3931	10	0.050	0.99	15	
Hexachlorobutadiene	0.0550	0.0680	0.0965	0.1488	0.1496	0.1632	0.1604	0.1413	LINR	R	0.220488	6.609546		ug/L	0.1229	0.992	0.050	0.99	15	

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Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Naphthalene	0.9422	0.9239	1.0503	1.1446	1.1383	1.1668	1.1398	1.1973	AVRG	R		0.919202		ug/L	1.0879	10	0.050	0.99	15	
1,2,3-Trichlorobenzene	0.3231	0.3429	0.3624	0.4014	0.4064	0.4080	0.4047	0.4118	AVRG	R		2.613631		ug/L	0.3826	9	0.050	0.99	15	
tert-Butyl Alcohol (TBA)	0.0639	0.0587	0.0634	0.0624	0.0622	0.0598	0.0547	0.0567	AVRG	R		16.60685		ug/L	0.0602	6	0.005	0.99	15	
Isopropyl Ether (DIPE)	2.4625	2.6487	2.7054	2.7350	2.6450	2.4987	2.2193	2.1070	AVRG	R		0.399572		ug/L	2.5027	9	0.050	0.99	15	
Ethyl tert-Butyl Ether (ETBE)	1.5816	1.6753	1.7529	1.7571	1.7211	1.6247	1.4924	1.4174	AVRG	R		0.614319		ug/L	1.6278	8	0.050	0.99	15	
Methyl tert-Amyl Ether (TAME)	0.7175	0.7019	0.7517	0.7718	0.7323	0.7051	0.6665	0.6303	AVRG	R		1.409185		ug/L	0.7096	6	0.050	0.99	15	
Cyclohexanone		0.1549	0.1132	0.1172	0.1123	0.1383	0.1222	0.1220	AVRG	R		7.952449		ug/L	0.1257	12	0.005	0.99	15	
Ethanol		0.0100	0.0109	0.0108	0.0111	0.0110	0.0098	0.0102	AVRG	R		94.87108		ug/L	0.0105	5	0.0005	0.99	15	
Isopropanol		0.0553	0.0544	0.0546	0.0553	0.0542	0.0488	0.0511	AVRG	R		18.72995		ug/L	0.0534	5	0.005	0.99	15	
Tetrahydrofuran		0.2651	0.2777	0.2672	0.2636	0.2341	0.2009	0.1890	AVRG	R		4.123493		ug/L	0.2425	15	0.005	0.99	15	
Dibromofluoromethane	0.7895	0.7897	0.7962	0.7990	0.7857	0.7599	0.7497	0.7444	AVRG	R		1.287404		ug/L	0.7768	3	0.050	0.99	15	
1,2-Dichloroethane-d4	0.5427	0.5307	0.5462	0.5415	0.5126	0.4835	0.4655	0.4394	AVRG	R		1.969427		ug/L	0.5078	8	0.050	0.99	15	
Trifluorotoluene	0.1167	0.1212	0.1619	0.2202	0.2198	0.2378	0.2363	0.2120	LINR	R	0.181402	4.460388		ug/L	0.1908	0.994	0.050	0.99	15	
Toluene-d8	1.1334	1.1229	1.1438	1.1248	1.1278	1.1228	1.1178	1.1078	AVRG	R		0.888778		ug/L	1.1251	1	0.050	0.99	15	
Bromofluorobenzene	1.3553	1.3675	1.3498	1.3266	1.2998	1.2772	1.2421	1.2086	AVRG	R		0.767243		ug/L	1.3034	4	0.050	0.99	15	

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m=manual integration

AVRG=Average response factor LINR=Linear regression QUAD=Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

476046588001

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA08 IDF : 1.0
Seqnum : 476046588018 File : hb118 Time : 01-FEB-2006 20:53
Cal : 476046588001 Caldate: 01-FEB-2006 Caltype: WATER

Standards: S2606 (10000X), S2284 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	0.5796	0.3807	25.00	14.93	ug/L	-40	30	v- ***
Chloromethane	0.9006	0.6647	25.00	18.45	ug/L	-26	30	!v- m
Vinyl Chloride	0.6624	0.5351	25.00	20.20	ug/L	-19	20	
Bromomethane	0.2589	0.2475	25.00	21.00	ug/L	-16	30	m
Chloroethane	0.3907	0.3123	25.00	19.98	ug/L	-20	30	
Trichlorofluoromethane	0.4825	0.4626	25.00	23.97	ug/L	-4	30	

ISTD (ICAL hb115)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1400499	1472319	5.13	10.48	10.47	-0.01
1,4-Difluorobenzene	2944215	3002868	1.99	11.61	11.62	0.01
1,4-Dichlorobenzene-d4	1111278	1106838	-0.40	18.34	18.33	-0.01

LW 2-2-06

2/02/06

!=warning -=low bias m=manual integration v=ICV

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA08
Seqnum : 476046588019
Cal : 476046588001

File : hb119
Caldate: 01-FEB-2006

IDF : 1.0
Time : 01-FEB-2006 21:30
Caltype: WATER

Standards: S2436 (10000X), S2616 (10000X), S2284 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Acetone	0.3021	0.2439	25.00	20.19	ug/L	-19	40	
Freon 113	0.3302	0.4138	25.00	24.04	ug/L	-4	30	
1,1-Dichloroethene	0.3600	0.4229	25.00	29.37	ug/L	17	20	
Methylene Chloride	0.5823	0.5485	25.00	23.55	ug/L	-6	30	
Carbon Disulfide	1.7971	1.5780	25.00	21.95	ug/L	-12	30	
MTBE	1.4527	1.3715	25.00	23.60	ug/L	-6	30	
trans-1,2-Dichloroethene	0.4543	0.4708	25.00	25.91	ug/L	4	30	
Vinyl Acetate	1.6426	1.4765	25.00	22.47	ug/L	-10	40	
1,1-Dichloroethane	1.0006	0.9818	25.00	24.53	ug/L	-2	30	
2-Butanone	0.4575	0.4093	25.00	22.37	ug/L	-11	40	
2,2-Dichloropropane	0.5854	0.5717	25.00	24.41	ug/L	-2	30	
cis-1,2-Dichloroethene	0.4992	0.5262	25.00	26.35	ug/L	5	30	
Chloroform	0.8302	0.8279	25.00	24.93	ug/L	0	20	
Bromochloromethane	0.2270	0.2306	25.00	25.39	ug/L	2	30	
1,1,1-Trichloroethane	0.5226	0.5808	25.00	27.79	ug/L	11	30	
1,1-Dichloropropene	0.2840	0.3294	25.00	26.30	ug/L	5	30	
Carbon Tetrachloride	0.1859	0.2247	25.00	26.37	ug/L	5	30	
1,2-Dichloroethane	0.3470	0.3495	25.00	25.18	ug/L	1	30	
Benzene	0.8363	0.8862	25.00	26.49	ug/L	6	30	
Trichloroethene	0.2025	0.2341	25.00	28.90	ug/L	16	30	
1,2-Dichloropropane	0.2865	0.2883	25.00	25.16	ug/L	1	20	
Bromodichloromethane	0.3039	0.3299	25.00	27.14	ug/L	9	30	
Dibromomethane	0.1588	0.1636	25.00	25.76	ug/L	3	30	
2-Chloroethylvinylether	0.0733	0.0801	25.00	23.61	ug/L	-6	40	
4-Methyl-2-Pentanone	0.4139	0.4111	25.00	24.83	ug/L	-1	40	
Tetramethyl THF	0.7071	0.7380	25.00	26.09	ug/L	4	30	
cis-1,3-Dichloropropene	0.3937	0.4157	25.00	26.40	ug/L	6	30	
Toluene	0.4496	0.5011	25.00	27.86	ug/L	11	20	
trans-1,3-Dichloropropene	0.3620	0.3582	25.00	24.74	ug/L	-1	30	
1,1,2-Trichloroethane	0.1200	0.1261	25.00	26.28	ug/L	5	30	
2-Hexanone	0.3361	0.3374	25.00	25.10	ug/L	0	40	
1,3-Dichloropropane	0.4573	0.4794	25.00	26.21	ug/L	5	30	
Tetrachloroethene	0.1551	0.1968	25.00	27.46	ug/L	10	30	
Dibromochloromethane	0.2193	0.2504	25.00	28.54	ug/L	14	30	
1,2-Dibromoethane	0.2117	0.2272	25.00	26.83	ug/L	7	30	
Chlorobenzene	0.5482	0.5981	25.00	27.27	ug/L	9	30	
1,1,1,2-Tetrachloroethane	0.1843	0.2040	25.00	27.67	ug/L	11	30	
Ethylbenzene	0.9264	1.0588	25.00	28.57	ug/L	14	20	
m,p-Xylenes	0.3213	0.3750	50.00	58.37	ug/L	17	30	
o-Xylene	0.3218	0.3715	25.00	28.86	ug/L	15	30	
Styrene	0.5822	0.6524	25.00	28.01	ug/L	12	30	
Bromoform	0.1450	0.1491	25.00	25.71	ug/L	3	30	
Isopropylbenzene	1.7784	1.9807	25.00	27.85	ug/L	11	30	
1,1,2,2-Tetrachloroethane	0.8631	0.9152	25.00	26.51	ug/L	6	30	
1,2,3-Trichloropropane	0.1962	0.2109	25.00	26.87	ug/L	7	30	
Propylbenzene	2.3081	2.7665	25.00	29.97	ug/L	20	30	
Bromobenzene	0.4470	0.4818	25.00	26.95	ug/L	8	30	
1,3,5-Trimethylbenzene	1.4355	1.6701	25.00	29.09	ug/L	16	30	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
2-Chlorotoluene	1.6443	1.8247	25.00	27.74	ug/L	11	30	
4-Chlorotoluene	1.5655	1.6941	25.00	27.05	ug/L	8	30	
tert-Butylbenzene	1.1200	1.3880	25.00	27.29	ug/L	9	30	
1,2,4-Trimethylbenzene	1.4917	1.6761	25.00	28.09	ug/L	12	30	
sec-Butylbenzene	1.8394	2.3791	25.00	27.87	ug/L	11	30	
para-Isopropyl Toluene	1.3712	1.6227	25.00	26.11	ug/L	4	30	
1,3-Dichlorobenzene	0.8196	0.9071	25.00	27.67	ug/L	11	30	
1,4-Dichlorobenzene	0.8520	0.9389	25.00	27.55	ug/L	10	30	
n-Butylbenzene	1.4409	1.7490	25.00	26.80	ug/L	7	30	
1,2-Dichlorobenzene	0.7873	0.8708	25.00	27.65	ug/L	11	30	
1,2-Dibromo-3-Chloropropane	0.1592	0.1661	25.00	26.08	ug/L	4	30	
1,2,4-Trichlorobenzene	0.3931	0.4313	25.00	27.43	ug/L	10	30	
Hexachlorobutadiene	0.1229	0.1784	25.00	29.70	ug/L	19	30	
Naphthalene	1.0879	1.1792	25.00	27.10	ug/L	8	30	
1,2,3-Trichlorobenzene	0.3826	0.4165	25.00	27.21	ug/L	9	30	
tert-Butyl Alcohol (TBA)	0.0602	0.0578	125.0	120.0	ug/L	-4	30	
Isopropyl Ether (DIPE)	2.5027	2.3832	25.00	23.81	ug/L	-5	30	
Ethyl tert-Butyl Ether (ETBE)	1.6278	1.7254	25.00	26.50	ug/L	6	30	
Methyl tert-Amyl Ether (TAME)	0.7096	0.6886	25.00	24.26	ug/L	-3	30	
Cyclohexanone	0.1257	0.0382	250.0	76.01	ug/L	-70	30	v- ***
Ethanol	0.0105	0.0102	2500	2414	ug/L	-3	30	
Isopropanol	0.0534	0.0501	250.0	234.8	ug/L	-6	30	
Tetrahydrofuran	0.2425	0.2341	250.0	241.3	ug/L	-3	30	

ISTD (ICAL hb115)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1400499	1442265	2.98	10.48	10.47	-0.01
1,4-Difluorobenzene	2944215	2927349	-0.57	11.61	11.62	0.01
Chlorobenzene-d5	2503542	2525552	0.88	15.61	15.62	0.01
1,4-Dichlorobenzene-d4	1111278	1105699	-0.50	18.34	18.33	-0.01

LW 2-2-06

-=low bias v=ICV

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB110.D
Report Date: 02-Feb-2006 10:43

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB110.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 15:57 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.001/1000,S2552,0.002/1000,
Misc Info : S2028,0.001/1000,1.0/0.5 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 15:57 Cal File: HB110.D
Als bottle: 10 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.838	4.823	(0.462)	11211	1.00000	0.5104(M)
2 Chloromethane	50	5.350	5.324	(0.511)	30081	1.00000	1.2367(M)
3 Vinyl Chloride	62	5.419	5.413	(0.517)	16852	1.00000	0.9420(M)
4 Bromomethane	94	6.038	6.042	(0.577)	5415	1.00000	1.4923(M)
5 Chloroethane	64	6.186	6.190	(0.591)	11282	1.00000	1.0692(M)
6 Trichlorofluoromethane	101	6.520	6.534	(0.623)	10259	1.00000	0.7873
7 Ethanol	45	6.786	6.790	(0.648)	13617	50.0000	47.8354(A)
8 Freon 113	101	7.238	7.252	(0.691)	1591	0.50000	0.9103(M)
9 1,1-Dichloroethene	96	7.347	7.360	(0.701)	3912	0.50000	0.4023(aM)
10 Acetone	43	7.455	7.449	(0.712)	13458	0.50000	1.6494
11 Isopropanol	45	7.524	7.527	(0.718)	9709	5.00000	6.7335(A)
12 Carbon Disulfide	76	7.769	7.773	(0.742)	20263	0.50000	0.4175(a)
13 tert-Butyl Alcohol (TBA)	59	8.074	8.077	(0.771)	8627	5.00000	5.3049(A)
14 Methylene Chloride	84	8.104	8.108	(0.774)	19517	0.50000	1.2409(M)
15 MTBE	73	8.330	8.334	(0.795)	19136	0.50000	0.4877(a)
16 trans-1,2-Dichloroethene	96	8.428	8.422	(0.805)	6249	0.50000	0.5093
17 Isopropyl Ether (DIPE)	45	8.930	8.934	(0.853)	33251	0.50000	0.4919(aA)
18 Vinyl Acetate	43	8.999	9.003	(0.859)	20697	0.50000	0.4665(a)
19 1,1-Dichloroethane	63	9.068	9.072	(0.866)	12822	0.50000	0.4744(a)
20 Ethyl tert-Butyl Ether (ETBE)	59	9.442	9.445	(0.901)	21356	0.50000	0.4857(aA)
21 2-Butanone	43	9.855	9.849	(0.941)	8992	0.50000	0.7276
22 2,2-Dichloropropane	77	9.874	9.868	(0.943)	6916	0.50000	0.4374(a)

LW 2-2-06

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB110.D
Report Date: 02-Feb-2006 10:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.884	9.888	(0.944)	6999	0.50000	0.5191
	24 Tetrahydrofuran	42	10.248	10.252	(0.978)	41790	5.00000	6.3807(A)
	25 Bromochloromethane	128	10.248	10.262	(0.978)	2892	0.50000	0.4716(a)
	26 Chloroform	83	10.287	10.281	(0.982)	11003	0.50000	0.4907(a)
*	27 Pentafluorobenzene	168	10.474	10.478	(1.000)	1350317	50.0000	
$	28 Dibromofluoromethane	113	10.523	10.527	(1.005)	1066047	50.0000	50.8189
	29 1,1,1-Trichloroethane	97	10.573	10.576	(1.009)	5402	0.50000	0.3827(a)
	30 Carbon Tetrachloride	117	10.779	10.773	(0.929)	4118	0.50000	0.7117
	31 1,1-Dichloropropene	75	10.789	10.793	(0.930)	7071	0.50000	0.5143
$	32 1,2-Dichloroethane-d4	65	11.084	11.088	(0.955)	1568331	50.0000	53.4377
	33 Benzene	78	11.114	11.108	(0.958)	24749	0.50000	0.5120
	34 Methyl tert-Amyl Ether (TAME)	73	11.114	11.108	(0.958)	20735	0.50000	0.5055(A)
	35 1,2-Dichloroethane	62	11.192	11.206	(0.964)	9507	0.50000	0.4739(a)
*	36 1,4-Difluorobenzene	114	11.605	11.609	(1.000)	2890010	50.0000	
	37 Trichloroethene	95	12.009	12.012	(1.035)	4702	0.50000	0.4016(a)
$	38 Trifluorotoluene	146	12.353	12.367	(1.064)	3373	0.50000	0.4416(aA)
	39 1,2-Dichloropropane	63	12.412	12.416	(1.069)	8183	0.50000	0.4942(a)
	40 Dibromomethane	93	12.599	12.603	(1.086)	4115	0.50000	0.4482(a)
	41 Bromodichloromethane	83	12.746	12.750	(1.098)	8535	0.50000	0.4859(a)
	42 2-Chloroethylvinylether	63	13.081	13.085	(1.127)	1651	1.00000	1.4402
	43 Tetramethyl THF	43	13.307	13.311	(1.147)	20551	0.50000	0.5028(A)
	44 cis-1,3-Dichloropropene	75	13.356	13.360	(1.151)	11037	0.50000	0.4850(a)
	45 4-Methyl-2-Pentanone	43	13.484	13.498	(1.162)	13500	0.50000	0.5643
$	46 Toluene-d8	98	13.691	13.694	(1.180)	3275677	50.0000	50.3692
	47 Toluene	92	13.789	13.783	(1.188)	12267	0.50000	0.4720(a)
	48 trans-1,3-Dichloropropene	75	14.104	14.107	(1.215)	10398	0.50000	0.4969(a)
	49 1,1,2-Trichloroethane	85	14.369	14.373	(1.238)	3728	0.50000	0.5376
	50 Tetrachloroethene	166	14.497	14.501	(0.929)	2493	0.50000	0.6795
	51 2-Hexanone	43	14.586	14.589	(0.934)	6730	0.50000	0.4113(a)
	52 1,3-Dichloropropane	76	14.615	14.619	(0.936)	10682	0.50000	0.4798(a)
	53 Dibromochloromethane	129	14.890	14.894	(0.954)	4837	0.50000	0.4530(a)
	54 1,2-Dibromoethane	107	15.097	15.101	(1.301)	5782	0.50000	0.4724(a)
*	55 Chlorobenzene-d5	117	15.609	15.612	(1.000)	2433786	50.0000	
	56 Chlorobenzene	112	15.648	15.652	(1.003)	13548	0.50000	0.5076
	57 Ethylbenzene	91	15.697	15.701	(1.006)	21968	0.50000	0.4871(a)
	58 1,1,1,2-Tetrachloroethane	131	15.727	15.730	(1.008)	3907	0.50000	0.4355(a)
	59 m,p-Xylenes	106	15.835	15.839	(1.014)	13470	1.00000	0.8613
	60 o-Xylene	106	16.336	16.340	(1.047)	7086	0.50000	0.4523(a)
	61 Styrene	104	16.366	16.360	(1.049)	13502	0.50000	0.4764(a)
	62 Bromoform	173	16.661	16.665	(1.067)	4109	0.50000	0.5822
	63 Isopropylbenzene	105	16.730	16.734	(0.913)	15744	0.50000	0.4340(a)
	64 Cyclohexanone	55	16.986	16.980	(0.926)	16781	5.00000	6.5426(A)
$	65 Bromofluorobenzene	95	16.995	16.998	(0.927)	1382208	50.0000	51.9929
	66 1,1,2,2-Tetrachloroethane	83	17.133	17.137	(0.935)	9211	0.50000	0.5232
	67 Bromobenzene	156	17.212	17.206	(0.939)	4621	0.50000	0.5068
	68 Propylbenzene	91	17.202	17.206	(0.938)	20985	0.50000	0.4457(a)
	69 1,2,3-Trichloropropane	110	17.231	17.235	(0.940)	1701	0.50000	0.4249(a)
	70 2-Chlorotoluene	91	17.379	17.383	(0.948)	18216	0.50000	0.5431
	71 1,3,5-Trimethylbenzene	105	17.379	17.383	(0.948)	13031	0.50000	0.4450(a)
	72 4-Chlorotoluene	91	17.507	17.511	(0.955)	16783	0.50000	0.5256
	73 tert-Butylbenzene	119	17.763	17.766	(0.969)	8948	0.50000	0.7896
	74 1,2,4-Trimethylbenzene	105	17.831	17.835	(0.973)	14624	0.50000	0.4806(a)
	75 sec-Butylbenzene	105	18.018	18.022	(0.983)	12723	0.50000	0.6167
	76 para-Isopropyl Toluene	119	18.156	18.160	(0.990)	11055	0.50000	0.7009

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB110.D
Report Date: 02-Feb-2006 10:43

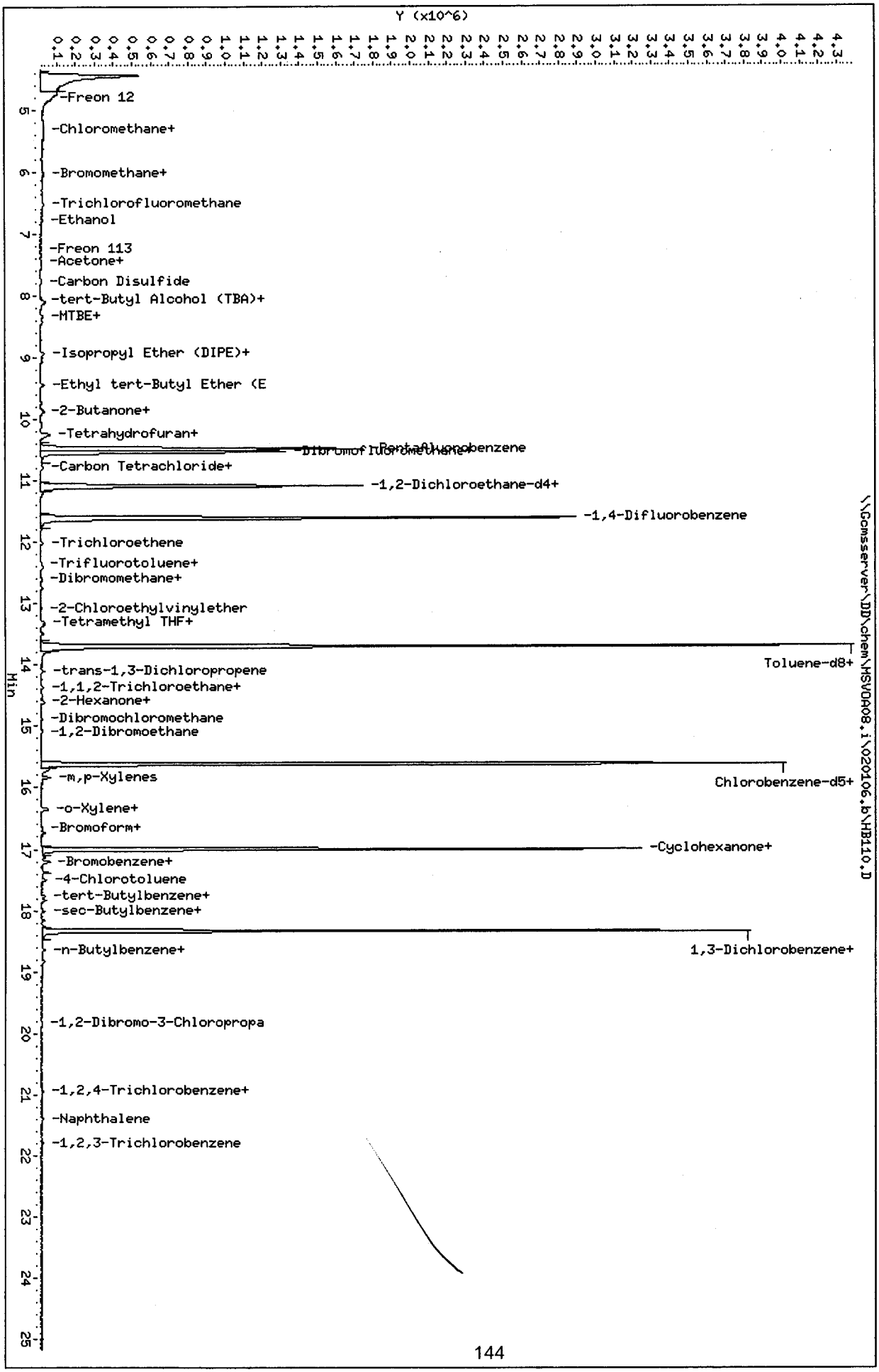
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.264	18.258	(0.996)	8252	0.50000	0.4936(a)
* 78 1,4-Dichlorobenzene-d4	152	18.333	18.337	(1.000)	1019841	50.0000	
79 1,4-Dichlorobenzene	146	18.372	18.366	(1.002)	7977	0.50000	0.4590(a)
80 n-Butylbenzene	91	18.648	18.642	(1.017)	11021	0.50000	0.5363
81 1,2-Dichlorobenzene	146	18.835	18.838	(1.027)	7515	0.50000	0.4680(a)
82 1,2-Dibromo-3-Chloropropane	75	19.828	19.832	(1.082)	1766	0.50000	0.5438
83 1,2,4-Trichlorobenzene	180	20.949	20.963	(1.143)	3391	0.50000	0.4229(a)
84 Hexachlorobutadiene	225	21.067	21.081	(1.149)	561	0.50000	0.4022(a)
85 Naphthalene	128	21.402	21.406	(1.167)	9609	0.50000	0.4330(a)
86 1,2,3-Trichlorobenzene	180	21.795	21.799	(1.189)	3295	0.50000	0.4222(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB110.D
Date : 01-FEB-2006 15:57
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.001/1000,S2552,0.002/1000,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB111.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB111.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 16:34 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.002/500,S2552,0.002/500,
Misc Info : S2028,0.001/500,2 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 16:34 Cal File: HB111.D
Als bottle: 11 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.823	4.823	(0.460)	26781	2.00000	1.3937(M)
2 Chloromethane	50	5.325	5.324	(0.508)	54029	2.00000	2.1792(M)
3 Vinyl Chloride	62	5.414	5.413	(0.517)	34330	2.00000	1.8827(M)
4 Bromomethane	94	6.053	6.042	(0.578)	9177	2.00000	1.9340(M)
5 Chloroethane	64	6.191	6.190	(0.591)	23192	2.00000	2.1563(M)
6 Trichlorofluoromethane	101	6.535	6.534	(0.624)	22381	2.00000	1.6851
7 Ethanol	45	6.781	6.790	(0.647)	55079	200.000	189.8147(A)
8 Freon 113	101	7.253	7.252	(0.692)	8700	2.00000	1.4885
9 1,1-Dichloroethene	96	7.351	7.360	(0.702)	15301	2.00000	1.5438
10 Acetone	43	7.459	7.449	(0.712)	26898	2.00000	3.2340
11 Isopropanol	45	7.518	7.527	(0.717)	30452	20.0000	20.7187(A)
12 Carbon Disulfide	76	7.764	7.773	(0.741)	83602	2.00000	1.6899
13 tert-Butyl Alcohol (TBA)	59	8.079	8.077	(0.771)	32300	20.0000	19.4849(A)
14 Methylene Chloride	84	8.099	8.108	(0.773)	40379	2.00000	2.5187(M)
15 MTBE	73	8.335	8.334	(0.795)	82163	2.00000	2.0544
16 trans-1,2-Dichloroethene	96	8.423	8.422	(0.804)	22054	2.00000	1.7634
17 Isopropyl Ether (DIPE)	45	8.935	8.934	(0.853)	145830	2.00000	2.1166(A)
18 Vinyl Acetate	43	9.004	9.003	(0.859)	92601	2.00000	2.0478
19 1,1-Dichloroethane	63	9.063	9.072	(0.865)	54964	2.00000	1.9953
20 Ethyl tert-Butyl Ether (ETBE)	59	9.436	9.445	(0.901)	92238	2.00000	2.0583(A)
21 2-Butanone	43	9.849	9.849	(0.940)	26867	2.00000	2.1330
22 2,2-Dichloropropane	77	9.869	9.868	(0.942)	27856	2.00000	1.7284

LW 2-2-06

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB111.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.879	9.888	(0.943)	26166	2.00000	1.9039
	24 Tetrahydrofuran	42	10.253	10.252	(0.978)	145964	20.0000	21.8635(A)
	25 Bromochloromethane	128	10.253	10.262	(0.978)	11872	2.00000	1.8994
	26 Chloroform	83	10.282	10.281	(0.981)	45453	2.00000	1.9887
*	27 Pentafluorobenzene	168	10.479	10.478	(1.000)	1376448	50.0000	
$	28 Dibromofluoromethane	113	10.528	10.527	(1.005)	1086918	50.0000	50.8302
	29 1,1,1-Trichloroethane	97	10.567	10.576	(1.008)	24880	2.00000	1.7293
	30 Carbon Tetrachloride	117	10.774	10.773	(0.928)	14767	2.00000	1.5430
	31 1,1-Dichloropropene	75	10.784	10.793	(0.929)	24519	2.00000	1.4498
$	32 1,2-Dichloroethane-d4	65	11.089	11.088	(0.955)	1561574	50.0000	52.2629
	33 Benzene	78	11.108	11.108	(0.957)	95194	2.00000	1.9343
	34 Methyl tert-Amyl Ether (TAME)	73	11.108	11.108	(0.957)	82610	2.00000	1.9783(A)
	35 1,2-Dichloroethane	62	11.197	11.206	(0.964)	41968	2.00000	2.0551
*	36 1,4-Difluorobenzene	114	11.610	11.609	(1.000)	2942240	50.0000	
	37 Trichloroethene	95	12.013	12.012	(1.035)	20382	2.00000	1.7102
$	38 Trifluorotoluene	146	12.358	12.367	(1.064)	14261	2.00000	1.2623(A)
	39 1,2-Dichloropropane	63	12.407	12.416	(1.069)	33962	2.00000	2.0146
	40 Dibromomethane	93	12.603	12.603	(1.086)	19265	2.00000	2.0614
	41 Bromodichloromethane	83	12.741	12.750	(1.097)	35917	2.00000	2.0086
	42 2-Chloroethylvinylether	63	13.085	13.085	(1.127)	4671	2.00000	2.0355
	43 Tetramethyl THF	43	13.312	13.311	(1.147)	84674	2.00000	2.0348(A)
	44 cis-1,3-Dichloropropene	75	13.361	13.360	(1.151)	45611	2.00000	1.9689
	45 4-Methyl-2-Pentanone	43	13.489	13.498	(1.162)	45586	2.00000	1.8717
$	46 Toluene-d8	98	13.695	13.694	(1.180)	3303834	50.0000	49.9003
	47 Toluene	92	13.784	13.783	(1.187)	47862	2.00000	1.8090
	48 trans-1,3-Dichloropropene	75	14.108	14.107	(1.215)	40673	2.00000	1.9093
	49 1,1,2-Trichloroethane	85	14.364	14.373	(1.237)	13675	2.00000	1.9370
	50 Tetrachloroethene	166	14.492	14.501	(0.928)	10735	2.00000	1.5932
	51 2-Hexanone	43	14.590	14.589	(0.934)	31655	2.00000	1.9062
	52 1,3-Dichloropropane	76	14.610	14.619	(0.936)	45656	2.00000	2.0206
	53 Dibromochloromethane	129	14.895	14.894	(0.954)	20753	2.00000	1.9151
	54 1,2-Dibromoethane	107	15.092	15.101	(1.300)	23629	2.00000	1.8965
*	55 Chlorobenzene-d5	117	15.613	15.612	(1.000)	2470484	50.0000	
	56 Chlorobenzene	112	15.652	15.652	(1.003)	50986	2.00000	1.8821
	57 Ethylbenzene	91	15.702	15.701	(1.006)	80176	2.00000	1.7516
	58 1,1,1,2-Tetrachloroethane	131	15.731	15.730	(1.008)	16726	2.00000	1.8369
	59 m,p-Xylenes	106	15.839	15.839	(1.014)	55527	4.00000	3.4979
	60 o-Xylene	106	16.341	16.340	(1.047)	29040	2.00000	1.8264
	61 Styrene	104	16.361	16.360	(1.048)	52127	2.00000	1.8120
	62 Bromoform	173	16.666	16.665	(1.067)	13004	2.00000	1.8153
	63 Isopropylbenzene	105	16.734	16.734	(0.913)	59500	2.00000	1.6369
	64 Cyclohexanone	55	16.980	16.980	(0.926)	63331	20.0000	24.6403(A)
$	65 Bromofluorobenzene	95	17.000	16.998	(0.927)	1397565	50.0000	52.4608
	66 1,1,2,2-Tetrachloroethane	83	17.138	17.137	(0.935)	33947	2.00000	1.9243
	67 Bromobenzene	156	17.207	17.206	(0.938)	16755	2.00000	1.8338
	68 Propylbenzene	91	17.207	17.206	(0.938)	77276	2.00000	1.6380
	69 1,2,3-Trichloropropane	110	17.226	17.235	(0.939)	7872	2.00000	1.9624
	70 2-Chlorotoluene	91	17.384	17.383	(0.948)	64733	2.00000	1.9261
	71 1,3,5-Trimethylbenzene	105	17.384	17.383	(0.948)	52538	2.00000	1.7906
	72 4-Chlorotoluene	91	17.502	17.511	(0.954)	61268	2.00000	1.9147
	73 tert-Butylbenzene	119	17.767	17.766	(0.969)	34288	2.00000	1.7478
	74 1,2,4-Trimethylbenzene	105	17.836	17.835	(0.973)	54844	2.00000	1.7988
	75 sec-Butylbenzene	105	18.023	18.022	(0.983)	54254	2.00000	1.5568
	76 para-Isopropyl Toluene	119	18.161	18.160	(0.990)	42352	2.00000	1.6724

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB111.D
Report Date: 02-Feb-2006 10:44

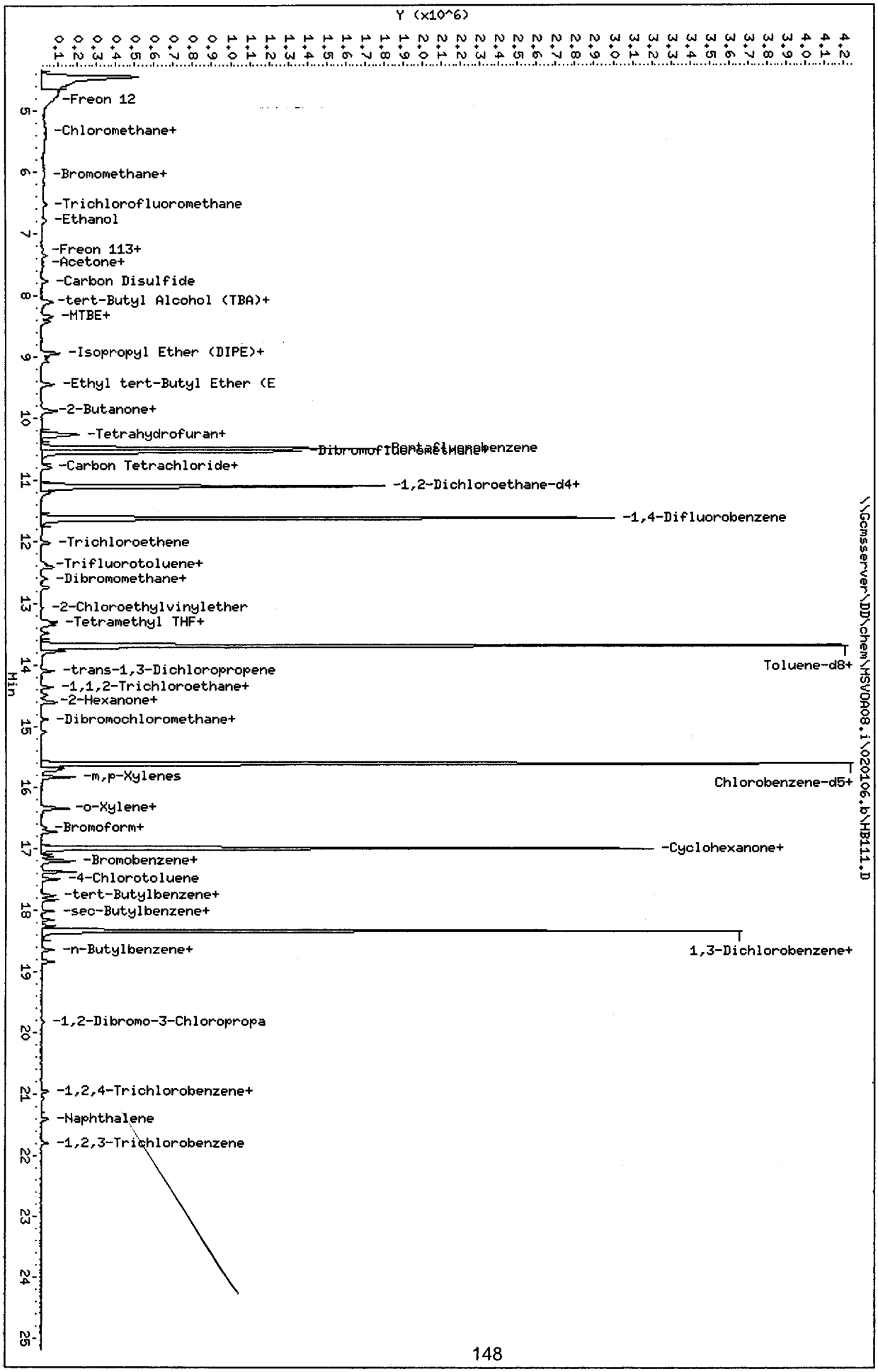
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.259	18.258	(0.996)	30004	2.00000	1.7909
* 78 1,4-Dichlorobenzene-d4	152	18.338	18.337	(1.000)	1021974	50.0000	
79 1,4-Dichlorobenzene	146	18.367	18.366	(1.002)	33450	2.00000	1.9208
80 n-Butylbenzene	91	18.643	18.642	(1.017)	42216	2.00000	1.4637
81 1,2-Dichlorobenzene	146	18.829	18.838	(1.027)	30170	2.00000	1.8749
82 1,2-Dibromo-3-Chloropropane	75	19.833	19.832	(1.082)	7174	2.00000	2.2047
83 1,2,4-Trichlorobenzene	180	20.954	20.963	(1.143)	14086	2.00000	1.7532
84 Hexachlorobutadiene	225	21.062	21.081	(1.149)	2780	2.00000	1.1194
85 Naphthalene	128	21.406	21.406	(1.167)	37770	2.00000	1.6985
86 1,2,3-Trichlorobenzene	180	21.790	21.799	(1.188)	14019	2.00000	1.7926

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\HSVOA08.i\020106.b\HB111.D
Date : 01-FEB-2006 16:34
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.002/500,S2552,0.002/500,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: HSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB112.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB112.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 17:10 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.002/200,S2552,0.002/200,
Misc Info : S2028,0.001/200,5 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 17:10 Cal File: HB112.D
Als bottle: 12 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.829	4.823	(0.461)	72310	5.00000	4.1360(M)
2 Chloromethane	50	5.320	5.324	(0.508)	126396	5.00000	5.2486(M)
3 Vinyl Chloride	62	5.409	5.413	(0.516)	86467	5.00000	4.8820(M)
4 Bromomethane	94	6.048	6.042	(0.577)	32829	5.00000	4.8968(M)
5 Chloroethane	64	6.196	6.190	(0.592)	49301	5.00000	4.7192(M)
6 Trichlorofluoromethane	101	6.530	6.534	(0.623)	62054	5.00000	4.8102
7 Ethanol	45	6.786	6.790	(0.648)	145747	500.000	517.1152(A)
8 Freon 113	101	7.248	7.252	(0.692)	38990	5.00000	4.0571
9 1,1-Dichloroethene	96	7.356	7.360	(0.702)	44525	5.00000	4.6252
10 Acetone	43	7.445	7.449	(0.711)	41137	5.00000	5.0922
11 Isopropanol	45	7.524	7.527	(0.718)	72789	50.0000	50.9866(A)
12 Carbon Disulfide	76	7.769	7.773	(0.742)	236016	5.00000	4.9117
13 tert-Butyl Alcohol (TBA)	59	8.074	8.077	(0.771)	84736	50.0000	52.6270(A)
14 Methylene Chloride	84	8.104	8.108	(0.774)	84786	5.00000	5.4450
15 MTBE	73	8.330	8.334	(0.795)	205424	5.00000	5.2883
16 trans-1,2-Dichloroethene	96	8.419	8.422	(0.804)	59488	5.00000	4.8970
17 Isopropyl Ether (DIPE)	45	8.930	8.934	(0.853)	361694	5.00000	5.4049(A)
18 Vinyl Acetate	43	9.009	9.003	(0.860)	238375	5.00000	5.4272
19 1,1-Dichloroethane	63	9.068	9.072	(0.866)	142604	5.00000	5.3299
20 Ethyl tert-Butyl Ether (ETBE)	59	9.442	9.445	(0.901)	234361	5.00000	5.3843(A)
21 2-Butanone	43	9.855	9.849	(0.941)	65691	5.00000	5.3693
22 2,2-Dichloropropane	77	9.864	9.868	(0.942)	80357	5.00000	5.1333

LW 2-2-06

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB112.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.884	9.888	(0.944)	65201	5.00000	4.8844
	24 Tetrahydrofuran	42	10.248	10.252	(0.978)	371226	50.0000	57.2476(A)
	25 Bromochloromethane	128	10.248	10.262	(0.978)	32071	5.00000	5.2827
	26 Chloroform	83	10.278	10.281	(0.981)	117410	5.00000	5.2890
*	27 Pentafluorobenzene	168	10.474	10.478	(1.000)	1336953	50.0000	
$	28 Dibromofluoromethane	113	10.523	10.527	(1.005)	1064538	50.0000	51.2542
	29 1,1,1-Trichloroethane	97	10.573	10.576	(1.009)	67278	5.00000	4.8145
	30 Carbon Tetrachloride	117	10.769	10.773	(0.928)	48086	5.00000	4.2778
	31 1,1-Dichloropropene	75	10.789	10.793	(0.930)	72725	5.00000	4.1734
$	32 1,2-Dichloroethane-d4	65	11.084	11.088	(0.955)	1559307	50.0000	53.7830
	33 Benzene	78	11.104	11.108	(0.957)	242554	5.00000	5.0795
	34 Methyl tert-Amyl Ether (TAME)	73	11.104	11.108	(0.957)	214610	5.00000	5.2965(A)
	35 1,2-Dichloroethane	62	11.202	11.206	(0.965)	106497	5.00000	5.3746
*	36 1,4-Difluorobenzene	114	11.605	11.609	(1.000)	2854933	50.0000	
	37 Trichloroethene	95	12.009	12.012	(1.035)	56093	5.00000	4.8508
$	38 Trifluorotoluene	146	12.363	12.367	(1.065)	46235	5.00000	3.7931(A)
	39 1,2-Dichloropropane	63	12.412	12.416	(1.069)	85540	5.00000	5.2295
	40 Dibromomethane	93	12.599	12.603	(1.086)	47260	5.00000	5.2116
	41 Bromodichloromethane	83	12.746	12.750	(1.098)	87679	5.00000	5.0534
	42 2-Chloroethylvinylether	63	13.081	13.085	(1.127)	16770	5.00000	4.5322
	43 Tetramethyl THF	43	13.307	13.311	(1.147)	215078	5.00000	5.3267(A)
	44 cis-1,3-Dichloropropene	75	13.356	13.360	(1.151)	115163	5.00000	5.1233
	45 4-Methyl-2-Pentanone	43	13.494	13.498	(1.163)	129555	5.00000	5.4821
$	46 Toluene-d8	98	13.691	13.694	(1.180)	3265445	50.0000	50.8287
	47 Toluene	92	13.789	13.783	(1.188)	121468	5.00000	4.7315
	48 trans-1,3-Dichloropropene	75	14.104	14.107	(1.215)	106343	5.00000	5.1449
	49 1,1,2-Trichloroethane	85	14.369	14.373	(1.238)	34296	5.00000	5.0066
	50 Tetrachloroethene	166	14.497	14.501	(0.929)	32345	5.00000	4.0438
	51 2-Hexanone	43	14.586	14.589	(0.934)	85120	5.00000	5.1888
	52 1,3-Dichloropropane	76	14.615	14.619	(0.936)	115338	5.00000	5.1673
	53 Dibromochloromethane	129	14.891	14.894	(0.954)	52749	5.00000	4.9275
	54 1,2-Dibromoethane	107	15.097	15.101	(1.301)	60496	5.00000	5.0041
*	55 Chlorobenzene-d5	117	15.609	15.612	(1.000)	2440509	50.0000	
	56 Chlorobenzene	112	15.648	15.652	(1.003)	128768	5.00000	4.8119
	57 Ethylbenzene	91	15.697	15.701	(1.006)	216155	5.00000	4.7803
	58 1,1,1,2-Tetrachloroethane	131	15.727	15.730	(1.008)	45608	5.00000	5.0703
	59 m,p-Xylenes	106	15.835	15.839	(1.014)	147830	10.0000	9.4271
	60 o-Xylene	106	16.336	16.340	(1.047)	74271	5.00000	4.7284
	61 Styrene	104	16.356	16.360	(1.048)	137538	5.00000	4.8397
	62 Bromoform	173	16.671	16.665	(1.068)	33320	5.00000	4.7086
	63 Isopropylbenzene	105	16.730	16.734	(0.913)	166411	5.00000	4.5189
	64 Cyclohexanone	55	16.976	16.980	(0.926)	117249	50.0000	45.0281(A)
$	65 Bromofluorobenzene	95	16.995	16.998	(0.927)	1397593	50.0000	51.7830
	66 1,1,2,2-Tetrachloroethane	83	17.133	17.137	(0.935)	92791	5.00000	5.1918
	67 Bromobenzene	156	17.202	17.206	(0.938)	45067	5.00000	4.8686
	68 Propylbenzene	91	17.202	17.206	(0.938)	229240	5.00000	4.7963
	69 1,2,3-Trichloropropane	110	17.231	17.235	(0.940)	21953	5.00000	5.4020
	70 2-Chlorotoluene	91	17.379	17.383	(0.948)	166084	5.00000	4.8778
	71 1,3,5-Trimethylbenzene	105	17.389	17.383	(0.948)	136039	5.00000	4.5764
	72 4-Chlorotoluene	91	17.507	17.511	(0.955)	158334	5.00000	4.8843
	73 tert-Butylbenzene	119	17.763	17.766	(0.969)	104163	5.00000	4.3407
	74 1,2,4-Trimethylbenzene	105	17.831	17.835	(0.973)	147628	5.00000	4.7794
	75 sec-Butylbenzene	105	18.018	18.022	(0.983)	167935	5.00000	4.0827
	76 para-Isopropyl Toluene	119	18.156	18.160	(0.990)	124877	5.00000	4.1857

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB112.D
Report Date: 02-Feb-2006 10:44

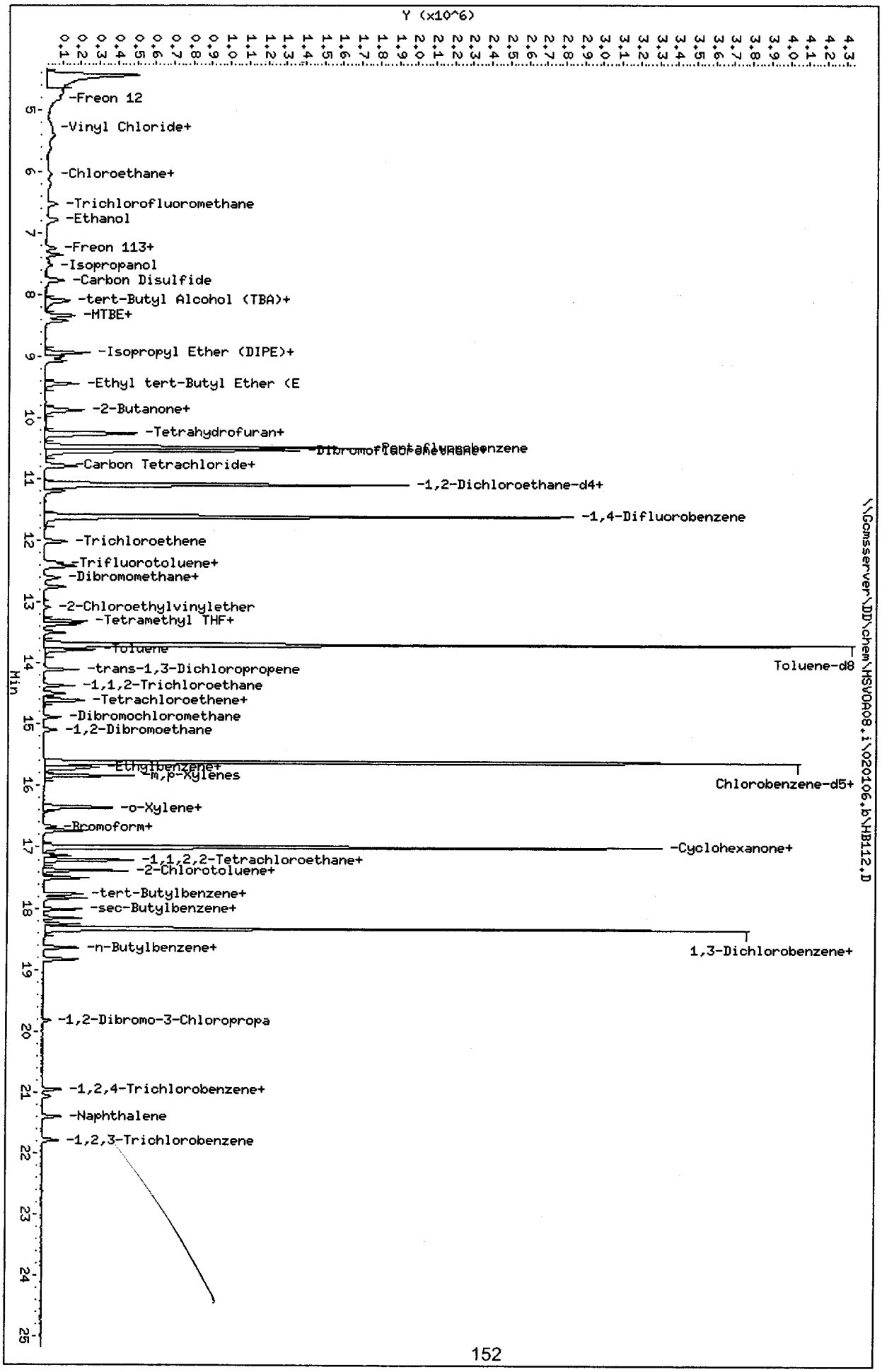
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.254	18.258	(0.996)	83366	5.00000	4.9118
* 78 1,4-Dichlorobenzene-d4	152	18.333	18.337	(1.000)	1035372	50.0000	
79 1,4-Dichlorobenzene	146	18.363	18.366	(1.002)	83847	5.00000	4.7526
80 n-Butylbenzene	91	18.648	18.642	(1.017)	133923	5.00000	4.1404
81 1,2-Dichlorobenzene	146	18.835	18.838	(1.027)	78989	5.00000	4.8452
82 1,2-Dibromo-3-Chloropropane	75	19.838	19.832	(1.082)	16393	5.00000	4.9727
83 1,2,4-Trichlorobenzene	180	20.959	20.963	(1.143)	38760	5.00000	4.7619
84 Hexachlorobutadiene	225	21.077	21.081	(1.150)	9989	5.00000	3.4088
85 Naphthalene	128	21.402	21.406	(1.167)	108748	5.00000	4.8273
86 1,2,3-Trichlorobenzene	180	21.795	21.799	(1.189)	37527	5.00000	4.7365

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB112.D
Date : 01-FEB-2006 17:10
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.002/200,S2552,0.002/200,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA08.i
Operator: LM
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB113.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB113.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 17:47 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.002/100,S2552,0.002/100,
Misc Info : S2028,0.001/100,10 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 17:47 Cal File: HB113.D
Als bottle: 13 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.816	4.823	(0.459)	180826	10.0000	10.2120
2 Chloromethane	50	5.327	5.324	(0.508)	263312	10.0000	10.5752
3 Vinyl Chloride	62	5.416	5.413	(0.517)	203819	10.0000	11.1300
4 Bromomethane	94	6.045	6.042	(0.577)	76870	10.0000	9.9974(M)
5 Chloroethane	64	6.193	6.190	(0.591)	119125	10.0000	11.0287(M)
6 Trichlorofluoromethane	101	6.527	6.534	(0.623)	153053	10.0000	11.4747
7 Ethanol	45	6.783	6.790	(0.647)	299859	1000.00	1028.9771(A)
8 Freon 113	101	7.245	7.252	(0.691)	117145	10.0000	10.3070
9 1,1-Dichloroethene	96	7.353	7.360	(0.702)	115590	10.0000	11.6130
10 Acetone	43	7.452	7.449	(0.711)	84028	10.0000	10.0600
11 Isopropanol	45	7.521	7.527	(0.718)	151004	100.000	102.3009(A)
12 Carbon Disulfide	76	7.766	7.773	(0.741)	562381	10.0000	11.3194
13 tert-Butyl Alcohol (TBA)	59	8.081	8.077	(0.771)	172489	100.000	103.6104(A)
14 Methylene Chloride	84	8.101	8.108	(0.773)	161314	10.0000	10.0196
15 MTBE	73	8.337	8.334	(0.795)	428965	10.0000	10.6804
16 trans-1,2-Dichloroethene	96	8.425	8.422	(0.804)	134649	10.0000	10.7204
17 Isopropyl Ether (DIPE)	45	8.937	8.934	(0.853)	756142	10.0000	10.9283(A)
18 Vinyl Acetate	43	9.006	9.003	(0.859)	527037	10.0000	11.6054
19 1,1-Dichloroethane	63	9.065	9.072	(0.865)	298414	10.0000	10.7871
20 Ethyl tert-Butyl Ether (ETBE)	59	9.438	9.445	(0.901)	485773	10.0000	10.7939(A)
21 2-Butanone	43	9.852	9.849	(0.940)	130789	10.0000	10.3392
22 2,2-Dichloropropane	77	9.871	9.868	(0.942)	189689	10.0000	11.7198

LW 2-2-06

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB113.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.881	9.888	(0.943)	146313	10.0000	10.6009
	24 Tetrahydrofuran	42	10.255	10.252	(0.978)	738822	100.000	110.1944(A)
	25 Bromochloromethane	128	10.255	10.262	(0.978)	64439	10.0000	10.2659
	26 Chloroform	83	10.284	10.281	(0.981)	247936	10.0000	10.8021
*	27 Pentafluorobenzene	168	10.481	10.478	(1.000)	1382341	50.0000	
$	28 Dibromofluoromethane	113	10.530	10.527	(1.005)	1104495	50.0000	51.4320
	29 1,1,1-Trichloroethane	97	10.570	10.576	(1.008)	167345	10.0000	11.5824
	30 Carbon Tetrachloride	117	10.776	10.773	(0.928)	128915	10.0000	10.6027
	31 1,1-Dichloropropene	75	10.796	10.793	(0.930)	191938	10.0000	10.5803
$	32 1,2-Dichloroethane-d4	65	11.091	11.088	(0.955)	1579783	50.0000	53.3235
	33 Benzene	78	11.111	11.108	(0.957)	530418	10.0000	10.8703
	34 Methyl tert-Amyl Ether (TAME)	73	11.111	11.108	(0.957)	450333	10.0000	10.8763(A)
	35 1,2-Dichloroethane	62	11.199	11.206	(0.964)	223586	10.0000	11.0423
*	36 1,4-Difluorobenzene	114	11.612	11.609	(1.000)	2917347	50.0000	
	37 Trichloroethene	95	12.015	12.012	(1.035)	129927	10.0000	10.9954
$	38 Trifluorotoluene	146	12.360	12.367	(1.064)	128498	10.0000	10.0045(A)
	39 1,2-Dichloropropane	63	12.409	12.416	(1.069)	176741	10.0000	10.5740
	40 Dibromomethane	93	12.596	12.603	(1.085)	98219	10.0000	10.5994
	41 Bromodichloromethane	83	12.743	12.750	(1.097)	187752	10.0000	10.5896
	42 2-Chloroethylvinylether	63	13.088	13.085	(1.127)	39304	10.0000	8.9005
	43 Tetramethyl THF	43	13.304	13.311	(1.146)	447845	10.0000	10.8543(A)
	44 cis-1,3-Dichloropropene	75	13.363	13.360	(1.151)	244787	10.0000	10.6570
	45 4-Methyl-2-Pentanone	43	13.491	13.498	(1.162)	248439	10.0000	10.2877
$	46 Toluene-d8	98	13.687	13.694	(1.179)	3281362	50.0000	49.9838
	47 Toluene	92	13.786	13.783	(1.187)	274190	10.0000	10.4519
	48 trans-1,3-Dichloropropene	75	14.101	14.107	(1.214)	228817	10.0000	10.8334
	49 1,1,2-Trichloroethane	85	14.366	14.373	(1.237)	70490	10.0000	10.0702
	50 Tetrachloroethene	166	14.494	14.501	(0.928)	87717	10.0000	10.0019
	51 2-Hexanone	43	14.592	14.589	(0.934)	164363	10.0000	9.7319
	52 1,3-Dichloropropane	76	14.612	14.619	(0.936)	242564	10.0000	10.5555
	53 Dibromochloromethane	129	14.887	14.894	(0.953)	113265	10.0000	10.2770
	54 1,2-Dibromoethane	107	15.094	15.101	(1.300)	129013	10.0000	10.4434
*	55 Chlorobenzene-d5	117	15.615	15.612	(1.000)	2512600	50.0000	
	56 Chlorobenzene	112	15.655	15.652	(1.003)	284104	10.0000	10.3120
	57 Ethylbenzene	91	15.704	15.701	(1.006)	501745	10.0000	10.7779
	58 1,1,1,2-Tetrachloroethane	131	15.733	15.730	(1.008)	94829	10.0000	10.2399
	59 m,p-Xylenes	106	15.842	15.839	(1.014)	347325	20.0000	21.5134
	60 o-Xylene	106	16.343	16.340	(1.047)	168268	10.0000	10.4054
	61 Styrene	104	16.363	16.360	(1.048)	304292	10.0000	10.4003
	62 Bromoform	173	16.668	16.665	(1.067)	69845	10.0000	9.5870
	63 Isopropylbenzene	105	16.737	16.734	(0.913)	431703	10.0000	11.3970
	64 Cyclohexanone	55	16.973	16.980	(0.925)	249568	100.000	93.1786(A)
$	65 Bromofluorobenzene	95	17.002	16.998	(0.927)	1412836	50.0000	50.8922
	66 1,1,2,2-Tetrachloroethane	83	17.130	17.137	(0.934)	193356	10.0000	10.5178
	67 Bromobenzene	156	17.209	17.206	(0.938)	96211	10.0000	10.1048
	68 Propylbenzene	91	17.199	17.206	(0.938)	567003	10.0000	11.5335
	69 1,2,3-Trichloropropane	110	17.228	17.235	(0.939)	44148	10.0000	10.5615
	70 2-Chlorotoluene	91	17.386	17.383	(0.948)	379715	10.0000	10.8420
	71 1,3,5-Trimethylbenzene	105	17.386	17.383	(0.948)	342147	10.0000	11.1901
	72 4-Chlorotoluene	91	17.504	17.511	(0.954)	354595	10.0000	10.6344
	73 tert-Butylbenzene	119	17.769	17.766	(0.969)	273503	10.0000	10.3814
	74 1,2,4-Trimethylbenzene	105	17.838	17.835	(0.973)	343662	10.0000	10.8166
	75 sec-Butylbenzene	105	18.015	18.022	(0.982)	464149	10.0000	10.4170
	76 para-Isopropyl Toluene	119	18.163	18.160	(0.990)	329729	10.0000	10.1858

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB113.D
Report Date: 02-Feb-2006 10:44

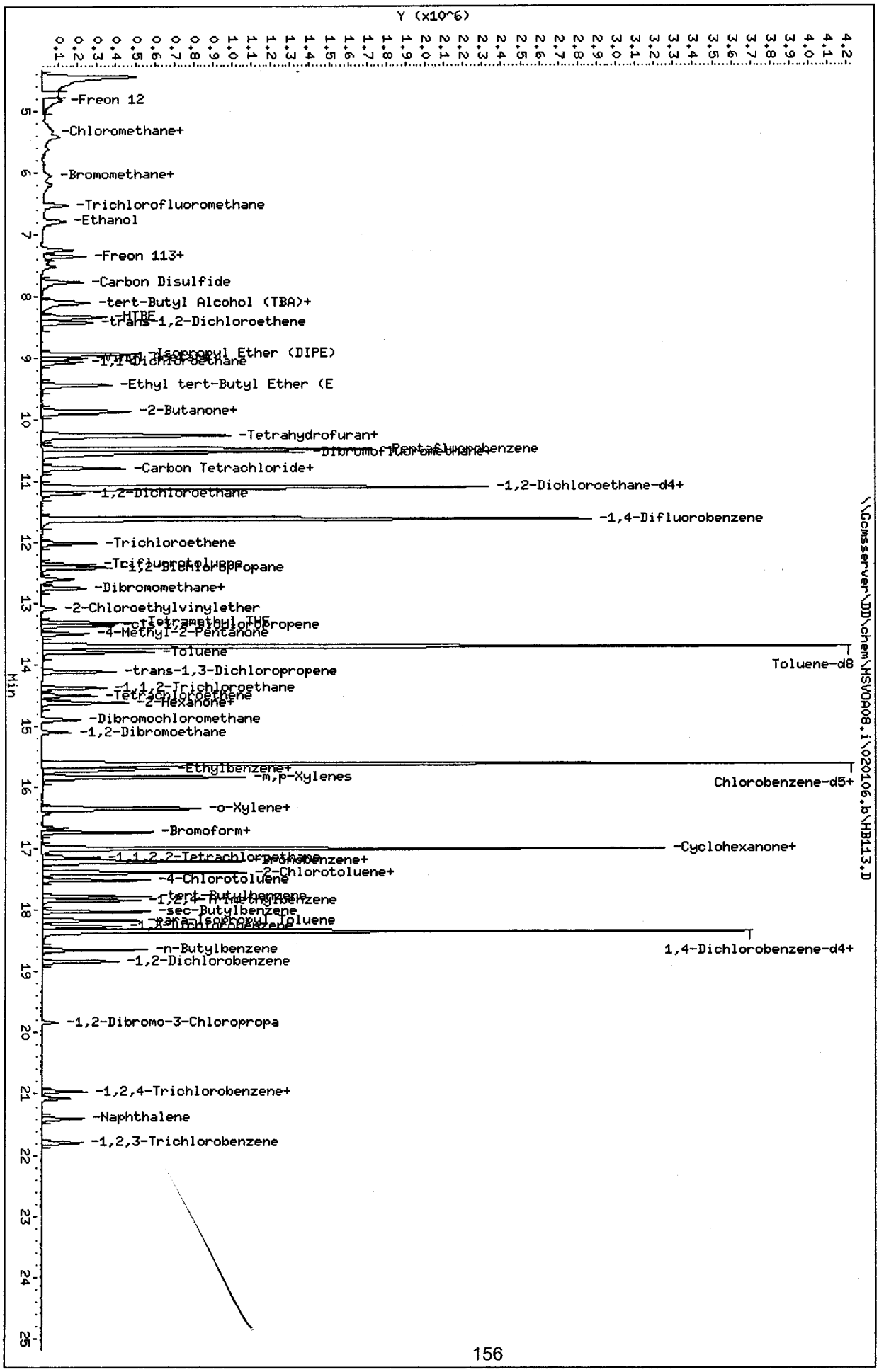
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.261	18.258	(0.996)	179816	10.0000	10.3000
* 78 1,4-Dichlorobenzene-d4	152	18.340	18.337	(1.000)	1064985	50.0000	
79 1,4-Dichlorobenzene	146	18.369	18.366	(1.002)	194789	10.0000	10.7340
80 n-Butylbenzene	91	18.645	18.642	(1.017)	367932	10.0000	10.7117
81 1,2-Dichlorobenzene	146	18.841	18.838	(1.027)	176845	10.0000	10.5462
82 1,2-Dibromo-3-Chloropropane	75	19.825	19.832	(1.081)	34463	10.0000	10.1635
83 1,2,4-Trichlorobenzene	180	20.956	20.963	(1.143)	88343	10.0000	10.5517
84 Hexachlorobutadiene	225	21.074	21.081	(1.149)	31699	10.0000	10.0570
85 Naphthalene	128	21.399	21.406	(1.167)	243792	10.0000	10.5210
86 1,2,3-Trichlorobenzene	180	21.792	21.799	(1.188)	85507	10.0000	10.4923

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB113.D
Date : 01-FEB-2006 17:47
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.002/100,S2552,0.002/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB114.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB114.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 18:24 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.004/100,S2552,0.004/100,
Misc Info : S2028,0.002/100,20 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 18:24 Cal File: HB114.D
Als bottle: 14 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.823	4.823	(0.460)	370534	20.0000	21.4500
2 Chloromethane	50	5.314	5.324	(0.507)	499856	20.0000	20.4252
3 Vinyl Chloride	62	5.413	5.413	(0.517)	391868	20.0000	21.7719
4 Bromomethane	94	6.042	6.042	(0.577)	153992	20.0000	19.3350(M)
5 Chloroethane	64	6.200	6.190	(0.592)	225120	20.0000	21.2051(M) LW 2-2-06
6 Trichlorofluoromethane	101	6.524	6.534	(0.623)	302651	20.0000	23.0859
7 Ethanol	45	6.790	6.790	(0.648)	600749	2000.00	2097.4218(A)
8 Freon 113	101	7.242	7.252	(0.691)	236536	20.0000	20.3542
9 1,1-Dichloroethene	96	7.350	7.360	(0.702)	219803	20.0000	22.4680
10 Acetone	43	7.449	7.449	(0.711)	166976	20.0000	20.3392
11 Isopropanol	45	7.518	7.527	(0.717)	300282	200.000	206.9782(A)
12 Carbon Disulfide	76	7.764	7.773	(0.741)	1101938	20.0000	22.5659
13 tert-Butyl Alcohol (TBA)	59	8.078	8.077	(0.771)	338059	200.000	206.6040(A)
14 Methylene Chloride	84	8.108	8.108	(0.774)	311554	20.0000	19.6886
15 MTBE	73	8.334	8.334	(0.795)	824285	20.0000	20.8808
16 trans-1,2-Dichloroethene	96	8.423	8.422	(0.804)	258273	20.0000	20.9215
17 Isopropyl Ether (DIPE)	45	8.934	8.934	(0.853)	1437448	20.0000	21.1371(A)
18 Vinyl Acetate	43	9.003	9.003	(0.859)	1026604	20.0000	22.9999
19 1,1-Dichloroethane	63	9.062	9.072	(0.865)	565678	20.0000	20.8047
20 Ethyl tert-Butyl Ether (ETBE)	59	9.436	9.445	(0.901)	935339	20.0000	21.1456(A)
21 2-Butanone	43	9.849	9.849	(0.940)	251185	20.0000	20.2029
22 2,2-Dichloropropane	77	9.868	9.868	(0.942)	356072	20.0000	22.3832

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB114.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.888	9.888	(0.944)	280591	20.0000	20.6842
	24 Tetrahydrofuran	42	10.252	10.252	(0.978)	1432475	200.000	217.3758(A)
	25 Bromochloromethane	128	10.252	10.262	(0.978)	129463	20.0000	20.9846
	26 Chloroform	83	10.281	10.281	(0.981)	480058	20.0000	21.2798
*	27 Pentafluorobenzene	168	10.478	10.478	(1.000)	1358661	50.0000	
$	28 Dibromofluoromethane	113	10.527	10.527	(1.005)	1067532	50.0000	50.5771
	29 1,1,1-Trichloroethane	97	10.577	10.576	(1.009)	320404	20.0000	22.5626
	30 Carbon Tetrachloride	117	10.773	10.773	(0.928)	247688	20.0000	19.9125
	31 1,1-Dichloropropene	75	10.793	10.793	(0.930)	370978	20.0000	20.2228
$	32 1,2-Dichloroethane-d4	65	11.088	11.088	(0.955)	1503527	50.0000	50.4739
	33 Benzene	78	11.108	11.108	(0.957)	1009727	20.0000	20.5809
	34 Methyl tert-Amyl Ether (TAME)	73	11.108	11.108	(0.957)	859185	20.0000	20.6381(A)
	35 1,2-Dichloroethane	62	11.196	11.206	(0.964)	422372	20.0000	20.7466
*	36 1,4-Difluorobenzene	114	11.609	11.609	(1.000)	2933280	50.0000	
	37 Trichloroethene	95	12.013	12.012	(1.035)	253014	20.0000	21.2957
$	38 Trifluorotoluene	146	12.357	12.367	(1.064)	257930	20.0000	19.7920(A)
	39 1,2-Dichloropropane	63	12.406	12.416	(1.069)	333500	20.0000	19.8441
	40 Dibromomethane	93	12.603	12.603	(1.086)	190970	20.0000	20.4969
	41 Bromodichloromethane	83	12.750	12.750	(1.098)	368427	20.0000	20.6672
	42 2-Chloroethylvinylether	63	13.085	13.085	(1.127)	102600	20.0000	20.8651
	43 Tetramethyl THF	43	13.311	13.311	(1.147)	884792	20.0000	21.3281(A)
	44 cis-1,3-Dichloropropene	75	13.360	13.360	(1.151)	479085	20.0000	20.7442
	45 4-Methyl-2-Pentanone	43	13.488	13.498	(1.162)	510252	20.0000	21.0145
$	46 Toluene-d8	98	13.694	13.694	(1.180)	3308192	50.0000	50.1187
	47 Toluene	92	13.783	13.783	(1.187)	562374	20.0000	21.3209
	48 trans-1,3-Dichloropropene	75	14.108	14.107	(1.215)	436119	20.0000	20.5361
	49 1,1,2-Trichloroethane	85	14.373	14.373	(1.238)	142090	20.0000	20.1888
	50 Tetrachloroethene	166	14.501	14.501	(0.929)	170143	20.0000	19.0015
	51 2-Hexanone	43	14.590	14.589	(0.934)	356790	20.0000	21.0969
	52 1,3-Dichloropropane	76	14.609	14.619	(0.936)	473653	20.0000	20.5838
	53 Dibromochloromethane	129	14.894	14.894	(0.954)	226745	20.0000	20.5457
	54 1,2-Dibromoethane	107	15.091	15.101	(1.300)	253136	20.0000	20.3797
*	55 Chlorobenzene-d5	117	15.612	15.612	(1.000)	2516018	50.0000	
	56 Chlorobenzene	112	15.652	15.652	(1.003)	573431	20.0000	20.7854
	57 Ethylbenzene	91	15.701	15.701	(1.006)	1005539	20.0000	21.5705
	58 1,1,1,2-Tetrachloroethane	131	15.730	15.730	(1.008)	190801	20.0000	20.5752
	59 m,p-Xylenes	106	15.839	15.839	(1.014)	710246	40.0000	43.9330
	60 o-Xylene	106	16.340	16.340	(1.047)	341185	20.0000	21.0697
	61 Styrene	104	16.360	16.360	(1.048)	622828	20.0000	21.2585
	62 Bromoform	173	16.665	16.665	(1.067)	142667	20.0000	19.5560
	63 Isopropylbenzene	105	16.734	16.734	(0.913)	865358	20.0000	22.2402
	64 Cyclohexanone	55	16.980	16.980	(0.926)	491556	200.000	178.6641(A)
$	65 Bromofluorobenzene	95	16.999	16.998	(0.927)	1421964	50.0000	49.8637
	66 1,1,2,2-Tetrachloroethane	83	17.137	17.137	(0.935)	392374	20.0000	20.7782
	67 Bromobenzene	156	17.206	17.206	(0.938)	200292	20.0000	20.4789
	68 Propylbenzene	91	17.206	17.206	(0.938)	1160802	20.0000	22.9864
	69 1,2,3-Trichloropropane	110	17.225	17.235	(0.939)	90271	20.0000	21.0233
	70 2-Chlorotoluene	91	17.383	17.383	(0.948)	770050	20.0000	21.4046
	71 1,3,5-Trimethylbenzene	105	17.383	17.383	(0.948)	696538	20.0000	22.1770
	72 4-Chlorotoluene	91	17.511	17.511	(0.955)	707232	20.0000	20.6482
	73 tert-Butylbenzene	119	17.766	17.766	(0.969)	544555	20.0000	19.6995
	74 1,2,4-Trimethylbenzene	105	17.835	17.835	(0.973)	696802	20.0000	21.3503
	75 sec-Butylbenzene	105	18.022	18.022	(0.983)	945752	20.0000	20.3408
	76 para-Isopropyl Toluene	119	18.160	18.160	(0.990)	681102	20.0000	20.1221

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB114.D
Report Date: 02-Feb-2006 10:44

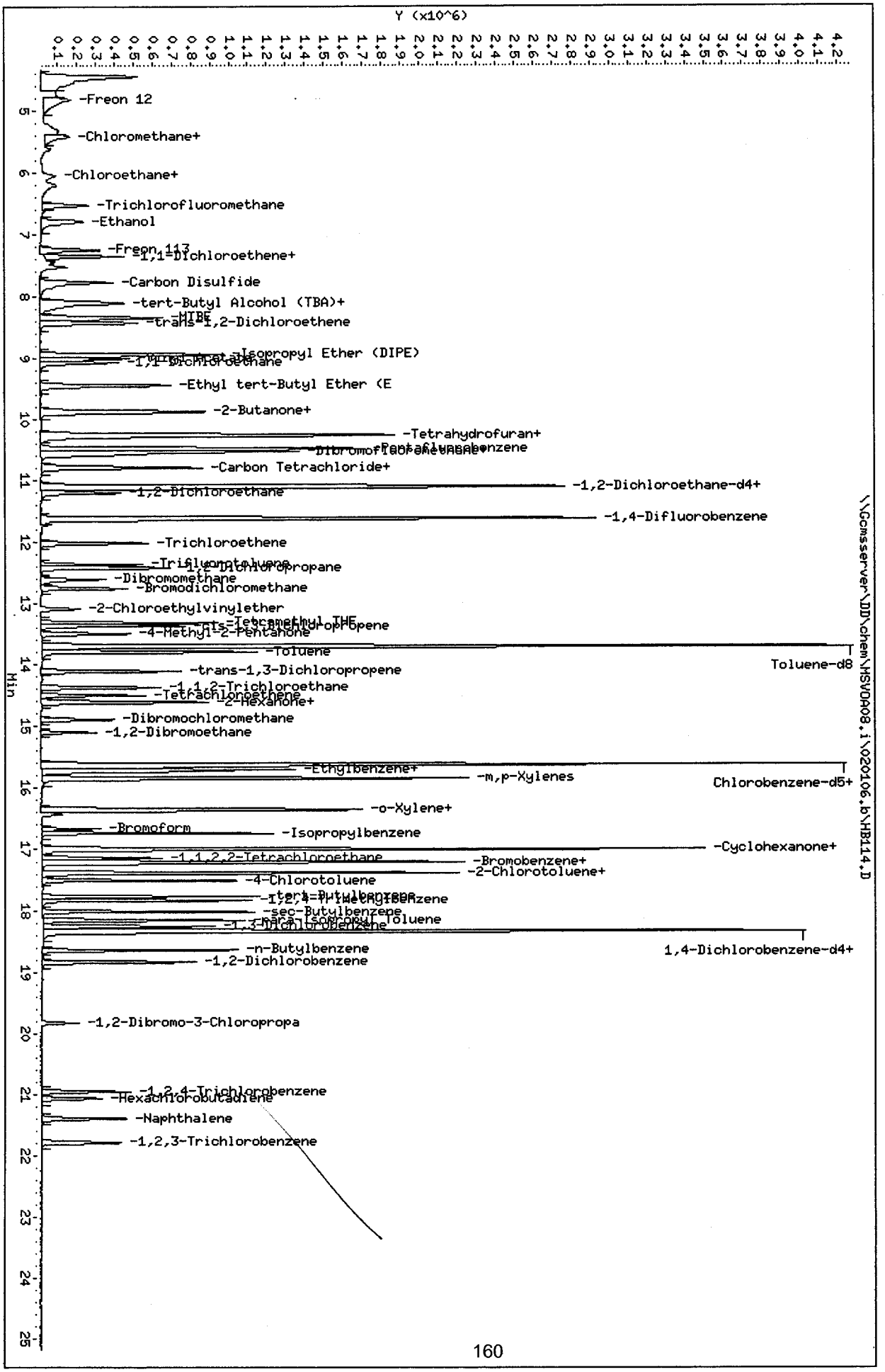
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.258	18.258	(0.996)	372191	20.0000	20.7545
* 78 1,4-Dichlorobenzene-d4	152	18.337	18.337	(1.000)	1093973	50.0000	
79 1,4-Dichlorobenzene	146	18.366	18.366	(1.002)	382797	20.0000	20.5355
80 n-Butylbenzene	91	18.642	18.642	(1.017)	719751	20.0000	20.2111
81 1,2-Dichlorobenzene	146	18.839	18.838	(1.027)	355931	20.0000	20.6637
82 1,2-Dibromo-3-Chloropropane	75	19.832	19.832	(1.082)	70163	20.0000	20.1436
83 1,2,4-Trichlorobenzene	180	20.963	20.963	(1.143)	181185	20.0000	21.0675
84 Hexachlorobutadiene	225	21.071	21.081	(1.149)	65458	20.0000	19.9946
85 Naphthalene	128	21.406	21.406	(1.167)	498087	20.0000	20.9256
86 1,2,3-Trichlorobenzene	180	21.799	21.799	(1.189)	177834	20.0000	21.2433

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\HSVOA08.i\020106.b\HB114.D
Date : 01-FEB-2006 18:24
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.004/100,S2552,0.004/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: HSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB115.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB115.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 19:01 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.01/100,S2552,0.01/100,
Misc Info : S2028,0.005/100,50 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 19:01 Cal File: HB115.D
Als bottle: 15 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.823	4.823	(0.460)	930523	50.0000	52.4696
2 Chloromethane	50	5.325	5.324	(0.508)	1175821	50.0000	46.6114
3 Vinyl Chloride	62	5.413	5.413	(0.517)	980764	50.0000	52.8628
4 Bromomethane	94	6.043	6.042	(0.577)	441750	50.0000	50.5342
5 Chloroethane	64	6.190	6.190	(0.591)	546119	50.0000	49.9047
6 Trichlorofluoromethane	101	6.535	6.534	(0.624)	739563	50.0000	54.7278
7 Ethanol	45	6.790	6.790	(0.648)	1539156	5000.00	5213.1913(A)
8 Freon 113	101	7.243	7.252	(0.691)	632279	50.0000	51.5437
9 1,1-Dichloroethene	96	7.351	7.360	(0.702)	576376	50.0000	57.1565
10 Acetone	43	7.449	7.449	(0.711)	450956	50.0000	53.2895
11 Isopropanol	45	7.518	7.527	(0.717)	758858	500.000	507.4394(A)
12 Carbon Disulfide	76	7.774	7.773	(0.742)	2780929	50.0000	55.2478
13 tert-Butyl Alcohol (TBA)	59	8.079	8.077	(0.771)	837835	500.000	496.7445(A)
14 Methylene Chloride	84	8.108	8.108	(0.774)	759445	50.0000	46.5594
15 MTBE	73	8.335	8.334	(0.795)	2039223	50.0000	50.1145
16 trans-1,2-Dichloroethene	96	8.423	8.422	(0.804)	661330	50.0000	51.9709
17 Isopropyl Ether (DIPE)	45	8.935	8.934	(0.853)	3499392	50.0000	49.9200(A)
18 Vinyl Acetate	43	9.003	9.003	(0.859)	2261476	50.0000	49.1524
19 1,1-Dichloroethane	63	9.062	9.072	(0.865)	1438888	50.0000	51.3391
20 Ethyl tert-Butyl Ether (ETBE)	59	9.436	9.445	(0.901)	2275451	50.0000	49.9054(A)
21 2-Butanone	43	9.849	9.849	(0.940)	643547	50.0000	50.2144
22 2,2-Dichloropropane	77	9.869	9.868	(0.942)	890150	50.0000	54.2845

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB115.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.889	9.888	(0.944)	713135	50.0000	50.9994
	24 Tetrahydrofuran	42	10.243	10.252	(0.977)	3278732	500.000	482.6789(A)
	25 Bromochloromethane	128	10.253	10.262	(0.978)	328166	50.0000	51.6033
	26 Chloroform	83	10.282	10.281	(0.981)	1172293	50.0000	50.4126
*	27 Pentafluorobenzene	168	10.479	10.478	(1.000)	1400499	50.0000	
$	28 Dibromofluoromethane	113	10.528	10.527	(1.005)	1064198	50.0000	48.9130
	29 1,1,1-Trichloroethane	97	10.577	10.576	(1.009)	808443	50.0000	55.2293
	30 Carbon Tetrachloride	117	10.774	10.773	(0.928)	651188	50.0000	51.5380
	31 1,1-Dichloropropene	75	10.794	10.793	(0.930)	965766	50.0000	52.2504
$	32 1,2-Dichloroethane-d4	65	11.089	11.088	(0.955)	1423605	50.0000	47.6134
	33 Benzene	78	11.108	11.108	(0.957)	2499318	50.0000	50.7535
	34 Methyl tert-Amyl Ether (TAME)	73	11.108	11.108	(0.957)	2075934	50.0000	49.6800(A)
	35 1,2-Dichloroethane	62	11.197	11.206	(0.964)	1021991	50.0000	50.0131
*	36 1,4-Difluorobenzene	114	11.610	11.609	(1.000)	2944215	50.0000	
	37 Trichloroethene	95	12.013	12.012	(1.035)	659004	50.0000	55.2611
$	38 Trifluorotoluene	146	12.357	12.367	(1.064)	700214	50.0000	53.2214(A)
	39 1,2-Dichloropropane	63	12.416	12.416	(1.069)	859352	50.0000	50.9438
	40 Dibromomethane	93	12.603	12.603	(1.086)	474736	50.0000	50.7644
	41 Bromodichloromethane	83	12.751	12.750	(1.098)	903105	50.0000	50.4723
	42 2-Chloroethylvinylether	63	13.085	13.085	(1.127)	284057	50.0000	51.8316
	43 Tetramethyl THF	43	13.311	13.311	(1.147)	2049600	50.0000	49.2226(A)
	44 cis-1,3-Dichloropropene	75	13.361	13.360	(1.151)	1163617	50.0000	50.1970
	45 4-Methyl-2-Pentanone	43	13.489	13.498	(1.162)	1204172	50.0000	49.4092
$	46 Toluene-d8	98	13.695	13.694	(1.180)	3305867	50.0000	49.8975
	47 Toluene	92	13.784	13.783	(1.187)	1434889	50.0000	54.1980
	48 trans-1,3-Dichloropropene	75	14.108	14.107	(1.215)	1091556	50.0000	51.2087
	49 1,1,2-Trichloroethane	85	14.364	14.373	(1.237)	359269	50.0000	50.8572
	50 Tetrachloroethene	166	14.502	14.501	(0.929)	478205	50.0000	52.9461
	51 2-Hexanone	43	14.590	14.589	(0.934)	890139	50.0000	52.8961
	52 1,3-Dichloropropane	76	14.610	14.619	(0.936)	1172514	50.0000	51.2085
	53 Dibromochloromethane	129	14.895	14.894	(0.954)	578799	50.0000	52.7071
	54 1,2-Dibromoethane	107	15.092	15.101	(1.300)	641776	50.0000	51.4770
*	55 Chlorobenzene-d5	117	15.613	15.612	(1.000)	2503542	50.0000	
	56 Chlorobenzene	112	15.652	15.652	(1.003)	1434281	50.0000	52.2481
	57 Ethylbenzene	91	15.702	15.701	(1.006)	2557589	50.0000	55.1381
	58 1,1,1,2-Tetrachloroethane	131	15.731	15.730	(1.008)	501249	50.0000	54.3221
	59 m,p-Xylenes	106	15.839	15.839	(1.014)	1835678	100.000	114.1138
	60 o-Xylene	106	16.341	16.340	(1.047)	900267	50.0000	55.8726
	61 Styrene	104	16.361	16.360	(1.048)	1590205	50.0000	54.5477
	62 Bromoform	173	16.665	16.665	(1.067)	376526	50.0000	51.8693
	63 Isopropylbenzene	105	16.734	16.734	(0.913)	2244024	50.0000	56.7747
	64 Cyclohexanone	55	16.980	16.980	(0.926)	1537428	500.000	550.1016(A)
$	65 Bromofluorobenzene	95	17.000	16.998	(0.927)	1419289	50.0000	48.9949
	66 1,1,2,2-Tetrachloroethane	83	17.138	17.137	(0.935)	952550	50.0000	49.6568
	67 Bromobenzene	156	17.206	17.206	(0.938)	523550	50.0000	52.6969
	68 Propylbenzene	91	17.206	17.206	(0.938)	2861439	50.0000	55.7803
	69 1,2,3-Trichloropropane	110	17.236	17.235	(0.940)	224342	50.0000	51.4338
	70 2-Chlorotoluene	91	17.383	17.383	(0.948)	1897470	50.0000	51.9216
	71 1,3,5-Trimethylbenzene	105	17.383	17.383	(0.948)	1800848	50.0000	56.4443
	72 4-Chlorotoluene	91	17.511	17.511	(0.955)	1806715	50.0000	51.9271
	73 tert-Butylbenzene	119	17.767	17.766	(0.969)	1468737	50.0000	51.5595
	74 1,2,4-Trimethylbenzene	105	17.836	17.835	(0.973)	1770801	50.0000	53.4133
	75 sec-Butylbenzene	105	18.023	18.022	(0.983)	2479542	50.0000	51.9800
	76 para-Isopropyl Toluene	119	18.160	18.160	(0.990)	1815332	50.0000	52.2167

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB115.D
Report Date: 02-Feb-2006 10:44

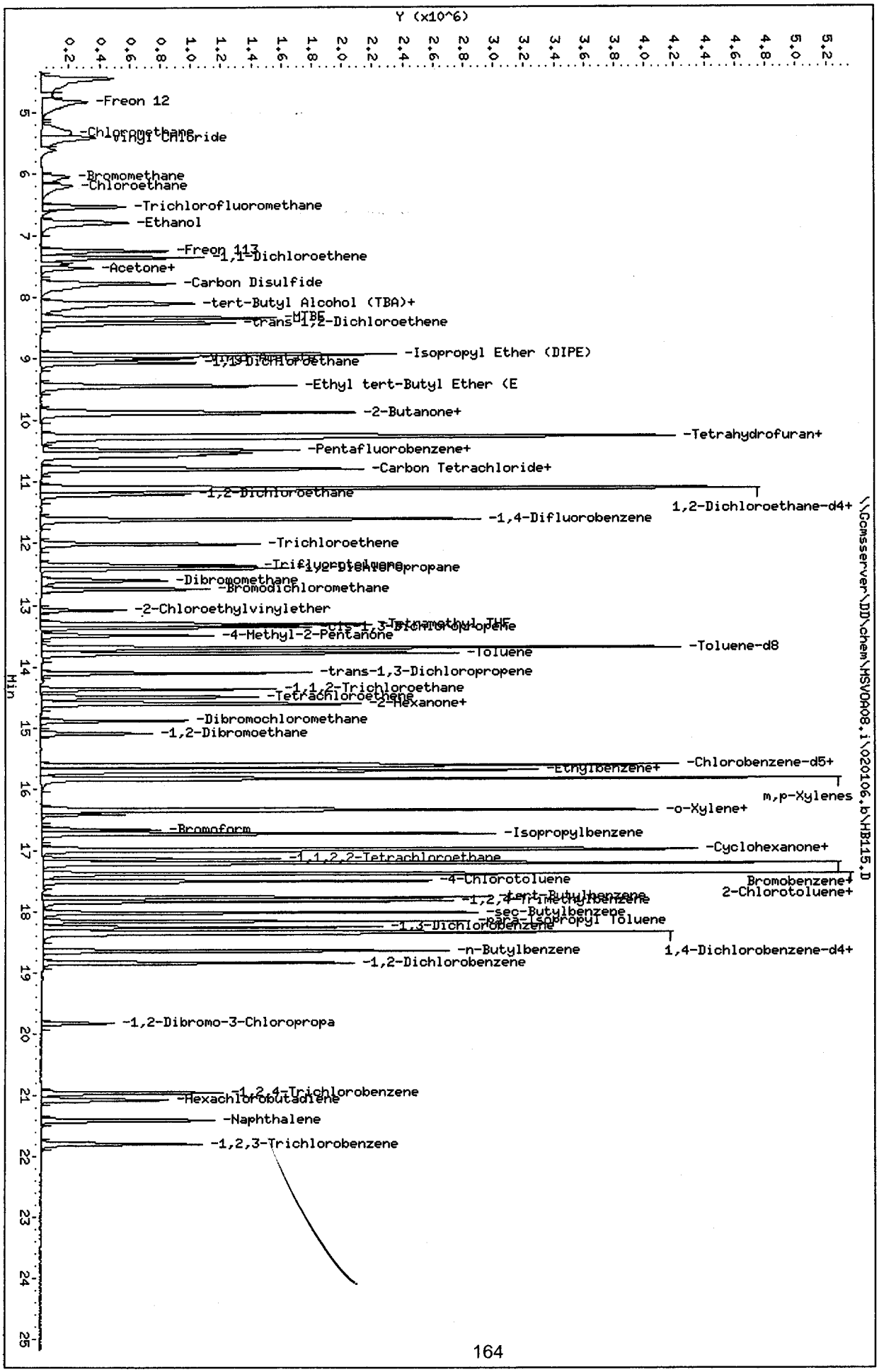
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.259	18.258	(0.996)	953114	50.0000	52.3211
* 78 1,4-Dichlorobenzene-d4	152	18.338	18.337	(1.000)	1111278	50.0000	
79 1,4-Dichlorobenzene	146	18.367	18.366	(1.002)	988301	50.0000	52.1928
80 n-Butylbenzene	91	18.642	18.642	(1.017)	1886532	50.0000	51.8217
81 1,2-Dichlorobenzene	146	18.839	18.838	(1.027)	914453	50.0000	52.2622
82 1,2-Dibromo-3-Chloropropane	75	19.833	19.832	(1.082)	172714	50.0000	48.8137
83 1,2,4-Trichlorobenzene	180	20.964	20.963	(1.143)	475177	50.0000	54.3914
84 Hexachlorobutadiene	225	21.072	21.081	(1.149)	181360	50.0000	54.1542
85 Naphthalene	128	21.406	21.406	(1.167)	1296655	50.0000	53.6269
86 1,2,3-Trichlorobenzene	180	21.800	21.799	(1.189)	453418	50.0000	53.3200

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Comsserver\DD\chem\MSVOA08.i\020106.b\HB115.D
Date : 01-FEB-2006 19:01
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.01/100,S2552,0.01/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB116.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB116.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 19:39 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.015/100,S2552,0.015/100,
Misc Info : S2028,0.0075/100,75 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 19:39 Cal File: HB116.D
Als bottle: 16 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.828	4.823	(0.461)	1400535	75.0000	72.8279
2 Chloromethane	50	5.320	5.324	(0.507)	1696018	75.0000	61.9533
3 Vinyl Chloride	62	5.418	5.413	(0.517)	1450595	75.0000	72.0469
4 Bromomethane	94	6.047	6.042	(0.577)	735794	75.0000	74.8099
5 Chloroethane	64	6.185	6.190	(0.590)	795573	75.0000	66.9912
6 Trichlorofluoromethane	101	6.539	6.534	(0.624)	1134715	75.0000	77.3755
7 Ethanol	45	6.795	6.790	(0.648)	2241621	7500.00	6996.2725(A)
8 Freon 113	101	7.247	7.252	(0.691)	987506	75.0000	73.8389
9 1,1-Dichloroethene	96	7.356	7.360	(0.702)	884379	75.0000	80.8131
10 Acetone	43	7.454	7.449	(0.711)	644726	75.0000	70.2048
11 Isopropanol	45	7.523	7.527	(0.718)	1113298	750.000	685.9914(A)
12 Carbon Disulfide	76	7.779	7.773	(0.742)	4197601	75.0000	76.8440
13 tert-Butyl Alcohol (TBA)	59	8.074	8.077	(0.770)	1246291	750.000	680.8909(A)
14 Methylene Chloride	84	8.103	8.108	(0.773)	1151613	75.0000	65.0580
15 MTBE	73	8.339	8.334	(0.795)	3039519	75.0000	68.8315
16 trans-1,2-Dichloroethene	96	8.418	8.422	(0.803)	1041797	75.0000	75.4412
17 Isopropyl Ether (DIPE)	45	8.939	8.934	(0.853)	5059444	75.0000	66.5071(A)
18 Vinyl Acetate	43	9.008	9.003	(0.859)	3326798	75.0000	66.6289
19 1,1-Dichloroethane	63	9.067	9.072	(0.865)	2174728	75.0000	71.5006
20 Ethyl tert-Butyl Ether (ETBE)	59	9.441	9.445	(0.901)	3402434	75.0000	68.7628(A)
21 2-Butanone	43	9.844	9.849	(0.939)	952040	75.0000	68.4522
22 2,2-Dichloropropane	77	9.864	9.868	(0.941)	1329758	75.0000	74.7255

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.883	9.888	(0.943)	1109240	75.0000	73.0975
	24 Tetrahydrofuran	42	10.247	10.252	(0.977)	4579364	750.000	621.2138(A)
	25 Bromochloromethane	128	10.257	10.262	(0.978)	504685	75.0000	73.1287
	26 Chloroform	83	10.287	10.281	(0.981)	1765409	75.0000	69.9572
*	27 Pentafluorobenzene	168	10.483	10.478	(1.000)	1519845	50.0000	
$	28 Dibromofluoromethane	113	10.533	10.527	(1.005)	1139431	50.0000	48.2584
	29 1,1,1-Trichloroethane	97	10.572	10.576	(1.008)	1264688	75.0000	79.6135
	30 Carbon Tetrachloride	117	10.778	10.773	(0.928)	1004406	75.0000	73.9139
	31 1,1-Dichloropropene	75	10.788	10.793	(0.929)	1454989	75.0000	73.3085
$	32 1,2-Dichloroethane-d4	65	11.083	11.088	(0.954)	1470530	50.0000	45.8343
	33 Benzene	78	11.113	11.108	(0.957)	3844036	75.0000	72.7460
	34 Methyl tert-Amyl Ether (TAME)	73	11.103	11.108	(0.956)	3158348	75.0000	70.4377(A)
	35 1,2-Dichloroethane	62	11.201	11.206	(0.964)	1508905	75.0000	68.8139
*	36 1,4-Difluorobenzene	114	11.615	11.609	(1.000)	3159310	50.0000	
	37 Trichloroethene	95	12.008	12.012	(1.034)	1034412	75.0000	80.8356
$	38 Trifluorotoluene	146	12.362	12.367	(1.064)	1119754	75.0000	79.2261(A)
	39 1,2-Dichloropropane	63	12.411	12.416	(1.069)	1293477	75.0000	71.4590
	40 Dibromomethane	93	12.598	12.603	(1.085)	719256	75.0000	71.6750
	41 Bromodichloromethane	83	12.746	12.750	(1.097)	1367057	75.0000	71.1998
	42 2-Chloroethylvinylether	63	13.080	13.085	(1.126)	457977	75.0000	72.8472
	43 Tetramethyl THF	43	13.306	13.311	(1.146)	3014937	75.0000	67.4763(A)
	44 cis-1,3-Dichloropropene	75	13.365	13.360	(1.151)	1798807	75.0000	72.3153
	45 4-Methyl-2-Pentanone	43	13.493	13.498	(1.162)	1855196	75.0000	70.9392
$	46 Toluene-d8	98	13.690	13.694	(1.179)	3531505	50.0000	49.6742
	47 Toluene	92	13.788	13.783	(1.187)	2194158	75.0000	77.2343
	48 trans-1,3-Dichloropropene	75	14.103	14.107	(1.214)	1622425	75.0000	70.9316
	49 1,1,2-Trichloroethane	85	14.369	14.373	(1.237)	546467	75.0000	72.0898
	50 Tetrachloroethene	166	14.496	14.501	(0.928)	769850	75.0000	78.3924
	51 2-Hexanone	43	14.585	14.589	(0.934)	1302146	75.0000	71.3410
	52 1,3-Dichloropropane	76	14.614	14.619	(0.936)	1783997	75.0000	71.8343
	53 Dibromochloromethane	129	14.890	14.894	(0.953)	907798	75.0000	76.2157
	54 1,2-Dibromoethane	107	15.096	15.101	(1.300)	1013080	75.0000	75.7270
*	55 Chlorobenzene-d5	117	15.618	15.612	(1.000)	2715447	50.0000	
	56 Chlorobenzene	112	15.657	15.652	(1.003)	2235537	75.0000	75.0813
	57 Ethylbenzene	91	15.706	15.701	(1.006)	3794281	75.0000	75.4161
	58 1,1,1,2-Tetrachloroethane	131	15.736	15.730	(1.008)	772359	75.0000	77.1713
	59 m,p-Xylenes	106	15.844	15.839	(1.014)	2712176	150.000	155.4437
	60 o-Xylene	106	16.336	16.340	(1.046)	1361238	75.0000	77.8889
	61 Styrene	104	16.365	16.360	(1.048)	2393581	75.0000	75.6982
	62 Bromoform	173	16.660	16.665	(1.067)	585748	75.0000	74.3944
	63 Isopropylbenzene	105	16.729	16.734	(0.913)	3366424	75.0000	80.2459
	64 Cyclohexanone	55	16.975	16.980	(0.926)	2162872	750.000	729.1311(A)
$	65 Bromofluorobenzene	95	16.995	16.998	(0.927)	1465051	50.0000	47.6496
	66 1,1,2,2-Tetrachloroethane	83	17.132	17.137	(0.935)	1449341	75.0000	71.1850
	67 Bromobenzene	156	17.211	17.206	(0.939)	805064	75.0000	76.3456
	68 Propylbenzene	91	17.201	17.206	(0.938)	4185658	75.0000	76.8754
	69 1,2,3-Trichloropropane	110	17.231	17.235	(0.940)	340834	75.0000	73.6219
	70 2-Chlorotoluene	91	17.378	17.383	(0.948)	2708826	75.0000	69.8363
	71 1,3,5-Trimethylbenzene	105	17.388	17.383	(0.948)	2583990	75.0000	76.3064
	72 4-Chlorotoluene	91	17.506	17.511	(0.955)	2698191	75.0000	73.0641
	73 tert-Butylbenzene	119	17.772	17.766	(0.969)	2242786	75.0000	73.9811
	74 1,2,4-Trimethylbenzene	105	17.831	17.835	(0.973)	2689552	75.0000	76.4340
	75 sec-Butylbenzene	105	18.018	18.022	(0.983)	3728522	75.0000	73.5057
	76 para-Isopropyl Toluene	119	18.165	18.160	(0.991)	2714389	75.0000	73.4160

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB116.D
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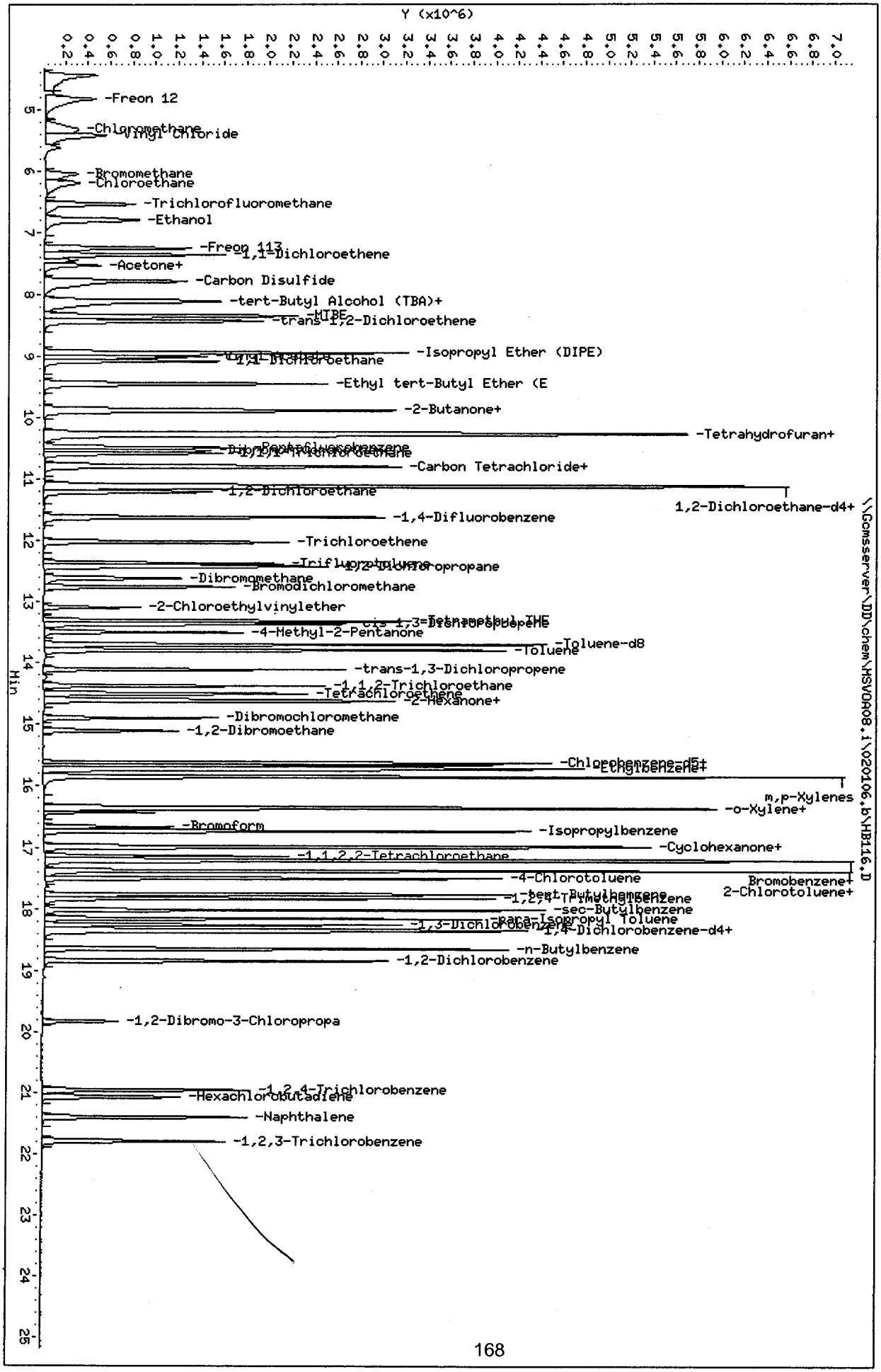
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.263	18.258	(0.996)	1483916	75.0000	76.7481
* 78 1,4-Dichlorobenzene-d4	152	18.332	18.337	(1.000)	1179495	50.0000	
79 1,4-Dichlorobenzene	146	18.362	18.366	(1.002)	1551083	75.0000	77.1761
80 n-Butylbenzene	91	18.647	18.642	(1.017)	2847787	75.0000	73.6147
81 1,2-Dichlorobenzene	146	18.834	18.838	(1.027)	1419114	75.0000	76.4136
82 1,2-Dibromo-3-Chloropropane	75	19.827	19.832	(1.082)	254496	75.0000	67.7675
83 1,2,4-Trichlorobenzene	180	20.958	20.963	(1.143)	748794	75.0000	80.7539
84 Hexachlorobutadiene	225	21.076	21.081	(1.150)	283764	75.0000	79.7270
85 Naphthalene	128	21.401	21.406	(1.167)	2016599	75.0000	78.5786
86 1,2,3-Trichlorobenzene	180	21.794	21.799	(1.189)	716069	75.0000	79.3365

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB116.D
Date : 01-FEB-2006 19:39
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.015/100,S2552,0.015/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB117.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB117.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 20:16 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.02/100,S2552,0.02/100,
Misc Info : S2028,0.01/100,100 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 20:16 Cal File: HB117.D
Als bottle: 17 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.822	4.823	(0.460)	1776530	100.000	93.3652
2 Chloromethane	50	5.324	5.324	(0.508)	2132188	100.000	78.6820
3 Vinyl Chloride	62	5.412	5.413	(0.517)	1834927	100.000	92.0670
4 Bromomethane	94	6.042	6.042	(0.577)	968540	100.000	96.3000
5 Chloroethane	64	6.189	6.190	(0.591)	1004241	100.000	85.4263
6 Trichlorofluoromethane	101	6.533	6.534	(0.624)	1422621	100.000	97.9990
7 Ethanol	45	6.789	6.790	(0.648)	3055950	10000.0	9635.3289(A)
8 Freon 113	101	7.251	7.252	(0.692)	1108421	100.000	83.6229
9 1,1-Dichloroethene	96	7.360	7.360	(0.702)	1075675	100.000	99.2980
10 Acetone	43	7.448	7.449	(0.711)	869729	100.000	95.6734
11 Isopropanol	45	7.527	7.527	(0.718)	1537242	1000.00	956.8971(A)
12 Carbon Disulfide	76	7.773	7.773	(0.742)	5125387	100.000	94.7875
13 tert-Butyl Alcohol (TBA)	59	8.078	8.077	(0.771)	1706326	1000.00	941.7505(A)
14 Methylene Chloride	84	8.107	8.108	(0.774)	1518439	100.000	86.6578
15 MTBE	73	8.333	8.334	(0.795)	3966773	100.000	90.7477
16 trans-1,2-Dichloroethene	96	8.422	8.422	(0.804)	1307904	100.000	95.6792
17 Isopropyl Ether (DIPE)	45	8.933	8.934	(0.853)	6339864	100.000	84.1901(A)
18 Vinyl Acetate	43	9.002	9.003	(0.859)	3833128	100.000	77.5542
19 1,1-Dichloroethane	63	9.071	9.072	(0.866)	2674419	100.000	88.8280
20 Ethyl tert-Butyl Ether (ETBE)	59	9.445	9.445	(0.901)	4264998	100.000	87.0760(A)
21 2-Butanone	43	9.848	9.849	(0.940)	1237107	100.000	89.8577
22 2,2-Dichloropropane	77	9.868	9.868	(0.942)	1516752	100.000	86.1047

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB117.D
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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.887	9.888	(0.944)	1417937	100.000	94.3951
	24 Tetrahydrofuran	42	10.251	10.252	(0.978)	5687343	1000.00	779.4013(A)
	25 Bromochloromethane	128	10.261	10.262	(0.979)	660911	100.000	96.7444
	26 Chloroform	83	10.281	10.281	(0.981)	2200936	100.000	88.1069
*	27 Pentafluorobenzene	168	10.478	10.478	(1.000)	1504470	50.0000	
$	28 Dibromofluoromethane	113	10.527	10.527	(1.005)	1119896	50.0000	47.9158
	29 1,1,1-Trichloroethane	97	10.576	10.576	(1.009)	1500750	100.000	95.4394
	30 Carbon Tetrachloride	117	10.773	10.773	(0.928)	1153194	100.000	86.8638
	31 1,1-Dichloropropene	75	10.792	10.793	(0.930)	1681016	100.000	86.7376
$	32 1,2-Dichloroethane-d4	65	11.087	11.088	(0.955)	1355257	50.0000	43.2708
	33 Benzene	78	11.107	11.108	(0.957)	4600256	100.000	89.1784
	34 Methyl tert-Amyl Ether (TAME)	73	11.107	11.108	(0.957)	3887743	100.000	88.8176(A)
	35 1,2-Dichloroethane	62	11.205	11.206	(0.965)	1905532	100.000	89.0197
*	36 1,4-Difluorobenzene	114	11.609	11.609	(1.000)	3084156	50.0000	
	37 Trichloroethene	95	12.012	12.012	(1.035)	1279140	100.000	102.3960
$	38 Trifluorotoluene	146	12.366	12.367	(1.065)	1307917	100.000	94.7586(A)
	39 1,2-Dichloropropane	63	12.415	12.416	(1.069)	1655848	100.000	93.7075
	40 Dibromomethane	93	12.602	12.603	(1.086)	954795	100.000	97.4654
	41 Bromodichloromethane	83	12.750	12.750	(1.098)	1803115	100.000	96.1992
	42 2-Chloroethylvinylether	63	13.084	13.085	(1.127)	689380	100.000	100.5472
	43 Tetramethyl THF	43	13.310	13.311	(1.147)	3819284	100.000	87.5611(A)
	44 cis-1,3-Dichloropropene	75	13.359	13.360	(1.151)	2306116	100.000	94.9692
	45 4-Methyl-2-Pentanone	43	13.497	13.498	(1.163)	2435972	100.000	95.4168
$	46 Toluene-d8	98	13.694	13.694	(1.180)	3416483	50.0000	49.2273
	47 Toluene	92	13.782	13.783	(1.187)	2718172	100.000	98.0111
	48 trans-1,3-Dichloropropene	75	14.107	14.107	(1.215)	2104101	100.000	94.2318
	49 1,1,2-Trichloroethane	85	14.373	14.373	(1.238)	710438	100.000	96.0046
	50 Tetrachloroethene	166	14.500	14.501	(0.929)	924385	100.000	95.8411
	51 2-Hexanone	43	14.589	14.589	(0.934)	1740655	100.000	97.1910
	52 1,3-Dichloropropane	76	14.618	14.619	(0.936)	2265471	100.000	92.9673
	53 Dibromochloromethane	129	14.894	14.894	(0.954)	1198396	100.000	102.5391
	54 1,2-Dibromoethane	107	15.100	15.101	(1.301)	1310382	100.000	100.3369
*	55 Chlorobenzene-d5	117	15.612	15.612	(1.000)	2664450	50.0000	
	56 Chlorobenzene	112	15.651	15.652	(1.003)	2818310	100.000	96.4656
	57 Ethylbenzene	91	15.700	15.701	(1.006)	4586806	100.000	92.9135
	58 1,1,1,2-Tetrachloroethane	131	15.730	15.730	(1.008)	1009760	100.000	102.8225
	59 m,p-Xylenes	106	15.838	15.839	(1.014)	3321356	200.000	194.0012
	60 o-Xylene	106	16.340	16.340	(1.047)	1691413	100.000	98.6336
	61 Styrene	104	16.359	16.360	(1.048)	3009471	100.000	96.9977
	62 Bromoform	173	16.664	16.665	(1.067)	788196	100.000	102.0228
	63 Isopropylbenzene	105	16.733	16.734	(0.913)	3996927	100.000	95.2507
	64 Cyclohexanone	55	16.979	16.980	(0.926)	2877926	1000.00	969.9339(A)
$	65 Bromofluorobenzene	95	16.999	16.998	(0.927)	1425849	50.0000	46.3626
	66 1,1,2,2-Tetrachloroethane	83	17.136	17.137	(0.935)	1873714	100.000	92.0045
	67 Bromobenzene	156	17.205	17.206	(0.938)	1043589	100.000	98.9398
	68 Propylbenzene	91	17.205	17.206	(0.938)	4830224	100.000	88.6908
	69 1,2,3-Trichloropropane	110	17.235	17.235	(0.940)	449564	100.000	97.0831
	70 2-Chlorotoluene	91	17.382	17.383	(0.948)	3301948	100.000	85.1056
	71 1,3,5-Trimethylbenzene	105	17.382	17.383	(0.948)	3133557	100.000	92.5114
	72 4-Chlorotoluene	91	17.510	17.511	(0.955)	3346354	100.000	90.5922
	73 tert-Butylbenzene	119	17.766	17.766	(0.969)	2651945	100.000	87.3731
	74 1,2,4-Trimethylbenzene	105	17.835	17.835	(0.973)	3332495	100.000	94.6812
	75 sec-Butylbenzene	105	18.022	18.022	(0.983)	4263217	100.000	83.9783
	76 para-Isopropyl Toluene	119	18.159	18.160	(0.990)	3273595	100.000	88.4445

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB117.D
Report Date: 02-Feb-2006 10:44

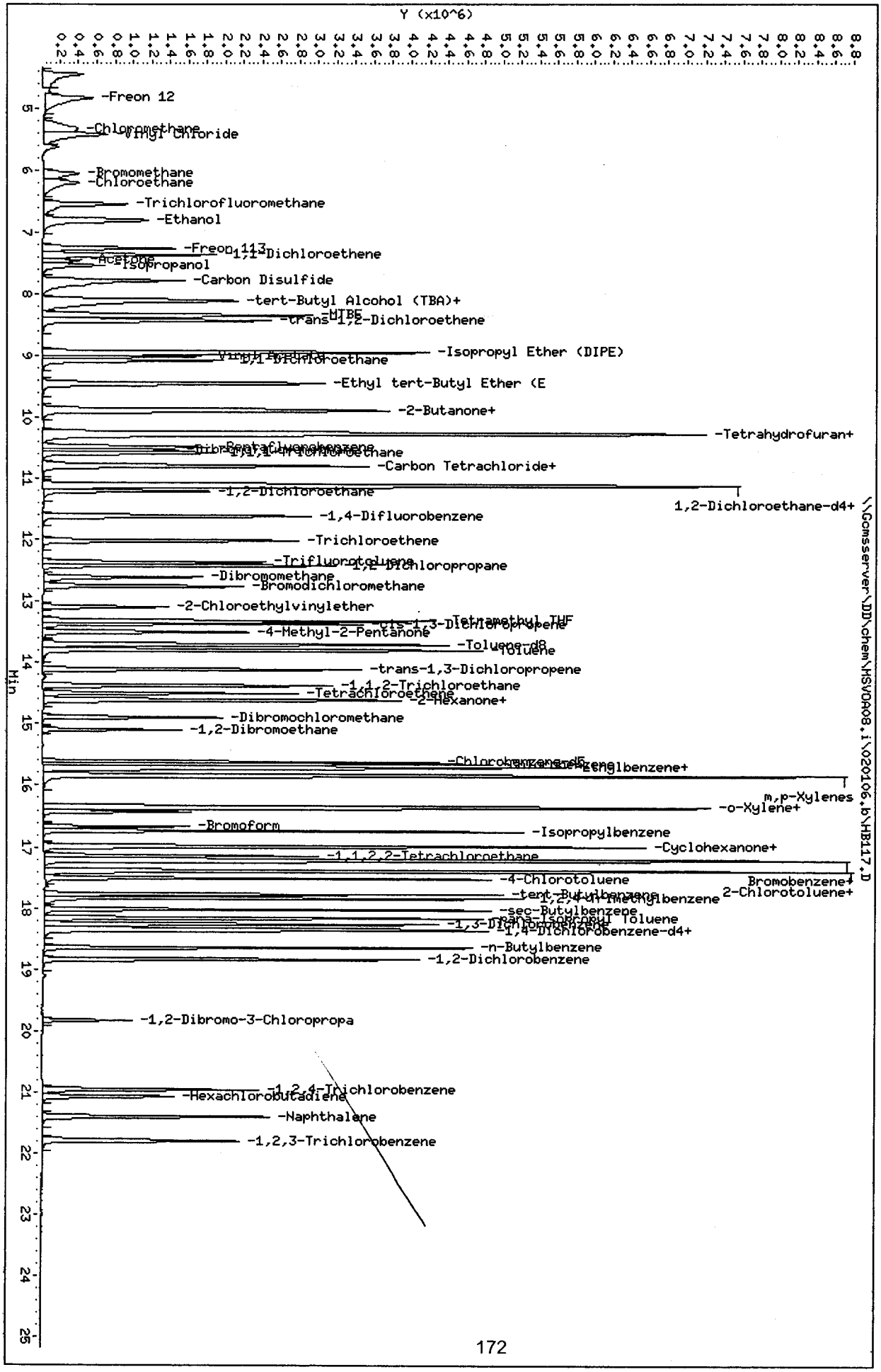
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.258	18.258	(0.996)	1929052	100.000	99.7448
* 78 1,4-Dichlorobenzene-d4	152	18.336	18.337	(1.000)	1179800	50.0000	
79 1,4-Dichlorobenzene	146	18.366	18.366	(1.002)	2006074	100.000	99.7890
80 n-Butylbenzene	91	18.641	18.642	(1.017)	3358910	100.000	86.7675
81 1,2-Dichlorobenzene	146	18.838	18.838	(1.027)	1867970	100.000	100.5567
82 1,2-Dibromo-3-Chloropropane	75	19.831	19.832	(1.082)	342563	100.000	91.1946
83 1,2,4-Trichlorobenzene	180	20.962	20.963	(1.143)	975697	100.000	105.1971
84 Hexachlorobutadiene	225	21.081	21.081	(1.150)	333494	100.000	93.6364
85 Naphthalene	128	21.405	21.406	(1.167)	2825061	100.000	110.0526
86 1,2,3-Trichlorobenzene	180	21.799	21.799	(1.189)	971703	100.000	107.6315

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Gcmsserver\DD\chem\HSVOA08.i\020106.b\HB117.D
Date : 01-FEB-2006 20:16
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.02/100,S2552,0.02/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: HSVOA08.i
Operator: LW
Column diameter: 0.25



CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA08 Run Name: 30 PPB IDF : 1.0
Seqnum : 476099783003 File : hca03 Time : 10-MAR-2006 08:02
Cal : 476046588001 Caldate : 01-FEB-2006 Caltype : WATER
Standards: S2844 (16670X), S2783 (16670X), S2410 (33330X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.5796	0.5558	30.00	26.26	ug/L	-12	30	0.0500	
Chloromethane	0.9006	0.9216	30.00	30.70	ug/L	2	30	0.1000	
Vinyl Chloride	0.6624	0.7540	30.00	34.15	ug/L	14	20	0.0500	
Bromomethane	0.2589	0.2882	30.00	28.77	ug/L	-4	30	0.0500	m
Chloroethane	0.3907	0.4432	30.00	34.03	ug/L	13	30	0.0500	m
Trichlorofluoromethane	0.4825	0.6458	30.00	40.16	ug/L	34	30	0.0500	c+ ***
Acetone	0.3021	0.2999	30.00	29.78	ug/L	-1	40	0.0500	
Freon 113	0.3302	0.4546	30.00	31.45	ug/L	5	30	0.0500	
1,1-Dichloroethene	0.3600	0.3749	30.00	31.24	ug/L	4	20	0.0500	
Methylene Chloride	0.5823	0.5131	30.00	26.43	ug/L	-12	30	0.0500	
Carbon Disulfide	1.7971	1.8519	30.00	30.92	ug/L	3	30	0.0500	
MTBE	1.4527	1.4718	30.00	30.39	ug/L	1	30	0.0500	
trans-1,2-Dichloroethene	0.4543	0.4463	30.00	29.47	ug/L	-2	30	0.0500	
Vinyl Acetate	1.6426	2.0003	30.00	36.53	ug/L	22	40	0.0500	
1,1-Dichloroethane	1.0006	1.0198	30.00	30.57	ug/L	2	30	0.1000	
2-Butanone	0.4575	0.4048	30.00	26.54	ug/L	-12	40	0.0500	
2,2-Dichloropropane	0.5854	0.6892	30.00	35.32	ug/L	18	30	0.0500	
cis-1,2-Dichloroethene	0.4992	0.4755	30.00	28.58	ug/L	-5	30	0.0500	
Chloroform	0.8302	0.8697	30.00	31.43	ug/L	5	20	0.0500	
Bromochloromethane	0.2270	0.2152	30.00	28.44	ug/L	-5	30	0.0500	
1,1,1-Trichloroethane	0.5226	0.6004	30.00	34.47	ug/L	15	30	0.0500	
1,1-Dichloropropene	0.2840	0.3134	30.00	30.00	ug/L	0	30	0.0500	
Carbon Tetrachloride	0.1859	0.2106	30.00	29.61	ug/L	-1	30	0.0500	
1,2-Dichloroethane	0.3470	0.3551	30.00	30.70	ug/L	2	30	0.0500	
Benzene	0.8363	0.8340	30.00	29.92	ug/L	0	30	0.0500	
Trichloroethene	0.2025	0.2036	30.00	30.16	ug/L	1	30	0.0500	
1,2-Dichloropropane	0.2865	0.2713	30.00	28.41	ug/L	-5	20	0.0500	
Bromodichloromethane	0.3039	0.2939	30.00	29.02	ug/L	-3	30	0.0500	
Dibromomethane	0.1588	0.1456	30.00	27.50	ug/L	-8	30	0.0500	
2-Chloroethylvinylether	0.0733	0.0583	30.00	20.86	ug/L	-30	40	0.0500	
4-Methyl-2-Pentanone	0.4139	0.3557	30.00	25.78	ug/L	-14	40	0.0500	
Tetramethyl THF	0.7071	0.7016	30.00	29.77	ug/L	-1	30	0.0500	
cis-1,3-Dichloropropene	0.3937	0.3794	30.00	28.92	ug/L	-4	30	0.0500	
Toluene	0.4496	0.4428	30.00	29.55	ug/L	-2	20	0.0500	
trans-1,3-Dichloropropene	0.3620	0.3470	30.00	28.76	ug/L	-4	30	0.0500	
1,1,2-Trichloroethane	0.1200	0.1122	30.00	28.06	ug/L	-6	30	0.0500	
2-Hexanone	0.3361	0.2850	30.00	25.44	ug/L	-15	40	0.0500	
1,3-Dichloropropane	0.4573	0.4331	30.00	28.41	ug/L	-5	30	0.0500	
Tetrachloroethene	0.1551	0.1613	30.00	27.02	ug/L	-10	30	0.0500	
Dibromochloromethane	0.2193	0.2002	30.00	27.39	ug/L	-9	30	0.0500	
1,2-Dibromoethane	0.2117	0.1890	30.00	26.78	ug/L	-11	30	0.0500	
Chlorobenzene	0.5482	0.5214	30.00	28.53	ug/L	-5	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1843	0.1756	30.00	28.58	ug/L	-5	30	0.0500	
Ethylbenzene	0.9264	0.9732	30.00	31.52	ug/L	5	20	0.0500	
m,p-Xylenes	0.3213	0.3363	60.00	62.81	ug/L	5	30	0.0500	
o-Xylene	0.3218	0.3241	30.00	30.21	ug/L	1	30	0.0500	
Styrene	0.5822	0.5841	30.00	30.09	ug/L	0	30	0.0500	
Bromoform	0.1450	0.1213	30.00	25.10	ug/L	-16	30	0.1000	
Isopropylbenzene	1.7784	1.9707	30.00	33.24	ug/L	11	30	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.8631	0.7762	30.00	26.98	ug/L	-10	30	0.3000	
1,2,3-Trichloropropane	0.1962	0.1784	30.00	27.28	ug/L	-9	30	0.0500	
Propylbenzene	2.3081	2.7019	30.00	35.12	ug/L	17	30	0.0500	
Bromobenzene	0.4470	0.4419	30.00	29.66	ug/L	-1	30	0.0500	
1,3,5-Trimethylbenzene	1.4355	1.5895	30.00	33.22	ug/L	11	30	0.0500	
2-Chlorotoluene	1.6443	1.7452	30.00	31.84	ug/L	6	30	0.0500	
4-Chlorotoluene	1.5655	1.6007	30.00	30.67	ug/L	2	30	0.0500	
tert-Butylbenzene	1.1200	1.2540	30.00	29.55	ug/L	-2	30	0.0500	
1,2,4-Trimethylbenzene	1.4917	1.5470	30.00	31.11	ug/L	4	30	0.0500	
sec-Butylbenzene	1.8394	2.1511	30.00	30.21	ug/L	1	30	0.0500	
para-Isopropyl Toluene	1.3712	1.5027	30.00	28.98	ug/L	-3	30	0.0500	
1,3-Dichlorobenzene	0.8196	0.7998	30.00	29.27	ug/L	-2	30	0.0500	
1,4-Dichlorobenzene	0.8520	0.8393	30.00	29.55	ug/L	-1	30	0.0500	
n-Butylbenzene	1.4409	1.5580	30.00	28.63	ug/L	-5	30	0.0500	
1,2-Dichlorobenzene	0.7873	0.7730	30.00	29.46	ug/L	-2	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1592	0.1261	30.00	23.76	ug/L	**-21**	30	0.0500	!c-
1,2,4-Trichlorobenzene	0.3931	0.3312	30.00	25.28	ug/L	-16	30	0.0500	
Hexachlorobutadiene	0.1229	0.1272	30.00	25.44	ug/L	-15	30	0.0500	
Naphthalene	1.0879	0.9743	30.00	26.87	ug/L	-10	30	0.0500	
1,2,3-Trichlorobenzene	0.3826	0.3021	30.00	23.69	ug/L	**-21**	30	0.0500	!c-
tert-Butyl Alcohol (TBA)	0.0602	0.0494	300.0	246.3	ug/L	-18	30	0.0050	
Isopropyl Ether (DIPE)	2.5027	2.8742	30.00	34.45	ug/L	15	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.6278	1.7453	30.00	32.16	ug/L	7	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.7096	0.6633	30.00	28.04	ug/L	-7	30	0.0500	
Cyclohexanone	0.1257	0.1213	300.0	289.4	ug/L	-4	30	0.0050	
Ethanol	0.0105	0.0095	3000	2692	ug/L	-10	30	5.0E-4	
Isopropanol	0.0534	0.0459	300.0	258.1	ug/L	-14	30	0.0050	
Tetrahydrofuran	0.2425	0.2240	300.0	277.1	ug/L	-8	30	0.0050	
Dibromofluoromethane	0.7768	0.8113	50.00	52.22	ug/L	4	30	0.0500	
1,2-Dichloroethane-d4	0.5078	0.5532	50.00	54.47	ug/L	9	30	0.0500	
Trifluorotoluene	0.1908	0.2049	30.00	27.60	ug/L	-8	30	0.0500	
Toluene-d8	1.1251	1.1501	50.00	51.11	ug/L	2	30	0.0500	
Bromofluorobenzene	1.3034	1.3003	50.00	49.88	ug/L	0	30	0.0500	

ISTD (ICAL hb115)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1400499	1108015	-20.88	10.48	10.47	-0.01
1,4-Difluorobenzene	2944215	2443787	-17.00	11.61	11.60	-0.01
Chlorobenzene-d5	2503542	2105181	-15.91	15.61	15.61	0.00
1,4-Dichlorobenzene-d4	1111278	905575	-18.51	18.34	18.33	-0.01

LW 3-10-06

3/13/06

!=warning +=high bias -=low bias c=CCV m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA08 Run Name: 20 PPB IDF : 1.0
Seqnum : 476104178003 File : hcd03 Time : 13-MAR-2006 09:03
Cal : 476046588001 Caldate : 01-FEB-2006 Caltype : WATER
Standards: S2844 (25000X), S2783 (25000X), S2410 (50000X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.5796	0.4222	20.00	13.23	ug/L	-34	30	0.0500	c- ***
Chloromethane	0.9006	0.8932	20.00	19.84	ug/L	-1	30	0.1000	m
Vinyl Chloride	0.6624	0.6268	20.00	18.93	ug/L	-5	20	0.0500	
Bromomethane	0.2589	0.2681	20.00	18.36	ug/L	-8	30	0.0500	
Chloroethane	0.3907	0.3751	20.00	19.20	ug/L	-4	30	0.0500	
Trichlorofluoromethane	0.4825	0.4412	20.00	18.29	ug/L	-9	30	0.0500	
Acetone	0.3021	0.2629	20.00	17.40	ug/L	-13	40	0.0500	
Freon 113	0.3302	0.3894	20.00	18.29	ug/L	-9	30	0.0500	
1,1-Dichloroethene	0.3600	0.3541	20.00	19.67	ug/L	-2	20	0.0500	
Methylene Chloride	0.5823	0.5365	20.00	18.43	ug/L	-8	30	0.0500	
Carbon Disulfide	1.7971	1.7791	20.00	19.80	ug/L	-1	30	0.0500	
MTBE	1.4527	1.4661	20.00	20.18	ug/L	1	30	0.0500	
trans-1,2-Dichloroethene	0.4543	0.4528	20.00	19.93	ug/L	0	30	0.0500	
Vinyl Acetate	1.6426	1.8063	20.00	21.99	ug/L	10	40	0.0500	
1,1-Dichloroethane	1.0006	1.0126	20.00	20.24	ug/L	1	30	0.1000	
2-Butanone	0.4575	0.3714	20.00	16.23	ug/L	-19	40	0.0500	
2,2-Dichloropropane	0.5854	0.6475	20.00	22.12	ug/L	11	30	0.0500	
cis-1,2-Dichloroethene	0.4992	0.4972	20.00	19.92	ug/L	0	30	0.0500	
Chloroform	0.8302	0.8643	20.00	20.82	ug/L	4	20	0.0500	
Bromochloromethane	0.2270	0.2203	20.00	19.41	ug/L	-3	30	0.0500	
1,1,1-Trichloroethane	0.5226	0.5425	20.00	20.76	ug/L	4	30	0.0500	
1,1-Dichloropropene	0.2840	0.2968	20.00	18.99	ug/L	-5	30	0.0500	
Carbon Tetrachloride	0.1859	0.1958	20.00	18.49	ug/L	-8	30	0.0500	
1,2-Dichloroethane	0.3470	0.3513	20.00	20.25	ug/L	1	30	0.0500	
Benzene	0.8363	0.8625	20.00	20.63	ug/L	3	30	0.0500	
Trichloroethene	0.2025	0.2071	20.00	20.45	ug/L	2	30	0.0500	
1,2-Dichloropropane	0.2865	0.2843	20.00	19.85	ug/L	-1	20	0.0500	
Bromodichloromethane	0.3039	0.2999	20.00	19.74	ug/L	-1	30	0.0500	
Dibromomethane	0.1588	0.1459	20.00	18.37	ug/L	-8	30	0.0500	
2-Chloroethylvinylether	0.0733	0.0526	20.00	13.17	ug/L	-34	40	0.0500	!c-
4-Methyl-2-Pentanone	0.4139	0.3339	20.00	16.13	ug/L	-19	40	0.0500	
Tetramethyl THF	0.7071	0.7091	20.00	20.06	ug/L	0	30	0.0500	
cis-1,3-Dichloropropene	0.3937	0.3865	20.00	19.64	ug/L	-2	30	0.0500	
Toluene	0.4496	0.4610	20.00	20.51	ug/L	3	20	0.0500	
trans-1,3-Dichloropropene	0.3620	0.3457	20.00	19.10	ug/L	-5	30	0.0500	
1,1,2-Trichloroethane	0.1200	0.1092	20.00	18.20	ug/L	-9	30	0.0500	
2-Hexanone	0.3361	0.2742	20.00	16.32	ug/L	-18	40	0.0500	
1,3-Dichloropropane	0.4573	0.4469	20.00	19.54	ug/L	-2	30	0.0500	
Tetrachloroethene	0.1551	0.1603	20.00	18.04	ug/L	-10	30	0.0500	
Dibromochloromethane	0.2193	0.2148	20.00	19.59	ug/L	-2	30	0.0500	
1,2-Dibromoethane	0.2117	0.1947	20.00	18.39	ug/L	-8	30	0.0500	
Chlorobenzene	0.5482	0.5551	20.00	20.25	ug/L	1	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1843	0.1842	20.00	19.99	ug/L	0	30	0.0500	
Ethylbenzene	0.9264	0.9993	20.00	21.57	ug/L	8	20	0.0500	
m,p-Xylenes	0.3213	0.3487	40.00	43.42	ug/L	9	30	0.0500	
o-Xylene	0.3218	0.3384	20.00	21.03	ug/L	5	30	0.0500	
Styrene	0.5822	0.6025	20.00	20.70	ug/L	3	30	0.0500	
Bromoform	0.1450	0.1225	20.00	16.90	ug/L	-15	30	0.1000	
Isopropylbenzene	1.7784	1.9598	20.00	22.04	ug/L	10	30	0.0500	

p-3/13/06

✓ 3/13/06

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.8631	0.7807	20.00	18.09	ug/L	-10	30	0.3000	
1,2,3-Trichloropropane	0.1962	0.1757	20.00	17.90	ug/L	-10	30	0.0500	
Propylbenzene	2.3081	2.6101	20.00	22.62	ug/L	13	30	0.0500	
Bromobenzene	0.4470	0.4511	20.00	20.18	ug/L	1	30	0.0500	
1,3,5-Trimethylbenzene	1.4355	1.6224	20.00	22.60	ug/L	13	30	0.0500	
2-Chlorotoluene	1.6443	1.8047	20.00	21.95	ug/L	10	30	0.0500	
4-Chlorotoluene	1.5655	1.6707	20.00	21.34	ug/L	7	30	0.0500	
tert-Butylbenzene	1.1200	1.1981	20.00	18.98	ug/L	-5	30	0.0500	
1,2,4-Trimethylbenzene	1.4917	1.5693	20.00	21.04	ug/L	5	30	0.0500	
sec-Butylbenzene	1.8394	2.0002	20.00	18.85	ug/L	-6	30	0.0500	
para-Isopropyl Toluene	1.3712	1.4408	20.00	18.65	ug/L	-7	30	0.0500	
1,3-Dichlorobenzene	0.8196	0.8419	20.00	20.54	ug/L	3	30	0.0500	
1,4-Dichlorobenzene	0.8520	0.8763	20.00	20.57	ug/L	3	30	0.0500	
n-Butylbenzene	1.4409	1.4514	20.00	17.86	ug/L	-11	30	0.0500	
1,2-Dichlorobenzene	0.7873	0.8038	20.00	20.42	ug/L	2	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1592	0.1227	20.00	15.41	ug/L	**-23**	30	0.0500	!c-
1,2,4-Trichlorobenzene	0.3931	0.3440	20.00	17.50	ug/L	-12	30	0.0500	
Hexachlorobutadiene	0.1229	0.1139	20.00	15.28	ug/L	**-24**	30	0.0500	!c-
Naphthalene	1.0879	0.9927	20.00	18.25	ug/L	-9	30	0.0500	
1,2,3-Trichlorobenzene	0.3826	0.3166	20.00	16.55	ug/L	-17	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0602	0.0464	200.0	154.0	ug/L	**-23**	30	0.0050	!c-
Isopropyl Ether (DIPE)	2.5027	2.8360	20.00	22.66	ug/L	13	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.6278	1.7561	20.00	21.58	ug/L	8	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.7096	0.6723	20.00	18.95	ug/L	-5	30	0.0500	
Cyclohexanone	0.1257	0.1052	200.0	167.3	ug/L	-16	30	0.0050	
Ethanol	0.0105	0.0086	2000	1640	ug/L	-18	30	5.0E-4	
Isopropanol	0.0534	0.0433	200.0	162.1	ug/L	-19	30	0.0050	
Tetrahydrofuran	0.2425	0.2139	200.0	176.4	ug/L	-12	30	0.0050	
Dibromofluoromethane	0.7768	0.7795	50.00	50.18	ug/L	0	30	0.0500	
1,2-Dichloroethane-d4	0.5078	0.5277	50.00	51.97	ug/L	4	30	0.0500	
Trifluorotoluene	0.1908	0.1964	20.00	17.70	ug/L	-11	30	0.0500	
Toluene-d8	1.1251	1.1383	50.00	50.58	ug/L	1	30	0.0500	
Bromofluorobenzene	1.3034	1.2914	50.00	49.54	ug/L	-1	30	0.0500	

ISTD (ICAL hb115)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1400499	1159770	-17.19	10.48	10.47	-0.01
1,4-Difluorobenzene	2944215	2496146	-15.22	11.61	11.60	-0.01
Chlorobenzene-d5	2503542	2097325	-16.23	15.61	15.61	0.00
1,4-Dichlorobenzene-d4	1111278	899323	-19.07	18.34	18.33	-0.01

!=warning -=low bias c=CCV m=manual integration

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 10-MAR-2006
Sequence: 476099783 (hca)
Instrument ID: MSVOA08

ICAL Filename: hb115
Date Analyzed: 01-FEB-2006
Time Analyzed: 19:01

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	1400499	10.48	2944215	11.61	2503542	15.61	1111278	18.34
LOWER LIMIT	700250	9.98	1472108	11.11	1251771	15.11	555639	17.84
UPPER LIMIT	2800998	10.98	5888430	12.11	5007084	16.11	2222556	18.84

TYPE	SAMPLE	#								
CCV	30 PPB	003	1108015	10.47	2443787	11.60	2105181	15.61	905575	18.33
LCS	QC330926	004	1240363	10.47	2638003	11.60	2237745	15.61	953439	18.33
BLANK	QC330927	006	1203680	10.48	2643033	11.61	2210626	15.62	889366	18.33
SAMPLE	185425-003	007	1144239	10.47	2565593	11.61	2176475	15.62	841790	18.33
SAMPLE	185408-001	008	1114996	10.48	2460512	11.61	2053832	15.62	808203	18.33
SAMPLE	185408-003	009	1104380	10.48	2466992	11.61	2090310	15.61	814695	18.34
MSS	185408-008	010	1081101	10.48	2422621	11.61	2041140	15.62	798079	18.33
SAMPLE	185408-009	011	1065929	10.48	2371580	11.61	1997899	15.62	789336	18.34
SAMPLE	185427-001	012	1068827	10.48	2388510	11.61	2011634	15.61	795463	18.34
SAMPLE	185427-002	013	1083266	10.49	2385388	11.62	2024592	15.61	790084	18.33
SAMPLE	185427-006	014	1060596	10.48	2361794	11.61	1967090	15.61	769063	18.33
SAMPLE	185427-003	015	1079361	10.48	2406884	11.61	2035438	15.62	799420	18.33
SAMPLE	185427-004	016	1069106	10.48	2371539	11.61	2011066	15.61	793113	18.34
SAMPLE	185427-005	017	1056667	10.48	2359492	11.61	2011068	15.61	780339	18.34
SAMPLE	185408-004	018	1082184	10.48	2417513	11.61	2071011	15.61	822950	18.34
SAMPLE	185408-005	019	1080650	10.48	2410153	11.61	2050251	15.61	821747	18.34
MS	QC330928	020	1165691	10.48	2545249	11.61	2146188	15.61	921911	18.34
MSD	QC330929	021	1206450	10.47	2606417	11.61	2187934	15.61	925180	18.33

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 13-MAR-2006
Sequence: 476104178 (hcd)
Instrument ID: MSVOA08

ICAL Filename: hb115
Date Analyzed: 01-FEB-2006
Time Analyzed: 19:01

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	1400499	10.48	2944215	11.61	2503542	15.61	1111278	18.34
LOWER LIMIT	700250	9.98	1472108	11.11	1251771	15.11	555639	17.84
UPPER LIMIT	2800998	10.98	5888430	12.11	5007084	16.11	2222556	18.84

TYPE	SAMPLE	#								
CCV	20 PPB	003	1159770	10.47	2496146	11.60	2097325	15.61	899323	18.33
BS	QC331160	004	1219647	10.47	2571054	11.61	2194961	15.61	944084	18.33
BSD	QC331161	005	1262944	10.48	2639775	11.61	2220340	15.61	947782	18.33
BLANK	QC331162	007	1171696	10.48	2497133	11.61	2128453	15.62	876097	18.33
SAMPLE	185468-007	008	1169304	10.48	2552975	11.61	2154093	15.61	856725	18.33
SAMPLE	185462-004	009	1143074	10.48	2486634	11.61	2086684	15.61	830999	18.34
SAMPLE	185469-001	010	1060840	10.48	2370696	11.61	1916840	15.61	708078	18.33
SAMPLE	185462-003	011	1107099	10.48	2444443	11.61	2074901	15.61	799488	18.33
SAMPLE	185427-004	012	1097360	10.48	2372663	11.61	1986481	15.62	773770	18.34
SAMPLE	185468-003	013	1056793	10.48	2292964	11.61	1928953	15.62	746330	18.33
SAMPLE	185468-004	014	1067928	10.48	2388565	11.61	1978946	15.62	772269	18.33
SAMPLE	185468-005	015	1076830	10.48	2374403	11.61	2023807	15.61	793300	18.34
SAMPLE	185468-006	016	1086268	10.48	2387856	11.61	2000116	15.61	800547	18.33
SAMPLE	185462-002	017	1071979	10.48	2376297	11.61	2006104	15.61	786532	18.34
SAMPLE	185462-001	018	1037849	10.48	2298514	11.61	1932222	15.61	764454	18.33
SAMPLE	185468-001	019	1059780	10.48	2374451	11.61	1980478	15.62	779392	18.33
SAMPLE	185408-004	020	1060024	10.48	2333481	11.61	2020804	15.61	821330	18.34
SAMPLE	185408-005	021	1252119	10.48	2585557	11.61	2215666	15.62	924635	18.34

ICAL

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 476046588 Instrument: MSVOA08 HP GCMS VOA 08 Begun: 01-FEB-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	hb101	X	IB			01-FEB-2006 08:28	1.0					1	
002	hb102	X	LOW			01-FEB-2006 09:10	1.0					1	
003	hb103	X	LOW			01-FEB-2006 09:47	1.0					1	
004	hb104	TUN	BFB			01-FEB-2006 10:30	1.0					2	
005	hb105	TUN	BFB			01-FEB-2006 11:01	1.0					2	
006	hb106	TUN	BFB			01-FEB-2006 11:21	1.0					2	
007	hb107	TUN	BFB			01-FEB-2006 14:11	1.0					2	
008	hb108	X	IB			01-FEB-2006 14:43	1.0					1	
009	hb109	X	CALIB IB			01-FEB-2006 15:20	1.0					1	
010	hb110	ICAL	1.0/0.5 PPB			01-FEB-2006 15:57	1.0					3 4 5 1	
011	hb111	ICAL	2 PPB			01-FEB-2006 16:34	1.0					3 4 5 1	
012	hb112	ICAL	5 PPB			01-FEB-2006 17:10	1.0					3 4 5 1	
013	hb113	ICAL	10 PPB			01-FEB-2006 17:47	1.0					3 4 5 1	
014	hb114	ICAL	20 PPB			01-FEB-2006 18:24	1.0					3 4 5 1	
015	hb115	ICAL	50 PPB			01-FEB-2006 19:01	1.0					3 4 5 1	179
016	hb116	ICAL	75 PPB			01-FEB-2006 19:39	1.0					3 4 5 1	
017	hb117	ICAL	100 PPB			01-FEB-2006 20:16	1.0					3 4 5 1	
018	hb118	ICV				01-FEB-2006 20:53	1.0	1	5000			6 1	
019	hb119	ICV				01-FEB-2006 21:30	1.0	1	5000			7 8 1	
020	hb120	X	IB			01-FEB-2006 22:07	1.0					1	
021	hb121	X	IB			01-FEB-2006 22:44	1.0					1	

tuning mass spec

ICAL-OK

ICV-Freon 12✓, Cyclohexanone✓ (USE Chloromethane✓)

Stds used: 1=S2284 2=S2327 3=S2349 4=S2552 5=S2028 6=S2606 7=S2436 8=S2616

Analyst: LW Date: 2-2-06

02/02/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories 1, 3, 8, 9

Sequence: 476099783 Instrument: MSVOA08 HP GCMS VOA 08 Begun: 10-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	hca01	X	IB			10-MAR-2006 07:03	1.0						1	
002	hca02	TUN	BFB			10-MAR-2006 07:33	1.0						2	
003	hca03	CCV	30 PPB			10-MAR-2006 08:02	1.0	1		5000			3 4 5 1	
004	hca04	LCS	QC330926	111173	Water	10-MAR-2006 08:46	1.0	3		5000			6 7 8 1	
005	hca05	X	IB			10-MAR-2006 09:30	1.0						1	
006	hca06	BLANK	QC330927	111173	Water	10-MAR-2006 10:07	1.0		1	5000			1	
007	hca07	SAMPLE	185425-003	111173	Water	10-MAR-2006 10:44	1.0			5000	A	C2	1	
008	hca08	SAMPLE	185408-001	111173	Water	10-MAR-2006 11:22	1.0			5000	C		1	
009	hca09	SAMPLE	185408-003	111173	Water	10-MAR-2006 11:58	1.0			5000			1	
010	hca10	MSS	185408-008	111173	Water	10-MAR-2006 12:36	1.0		1	5000			1	
011	hca11	SAMPLE	185408-009	111173	Water	10-MAR-2006 13:13	1.0			5000			1	
012	hca12	SAMPLE	185427-001	111173	Water	10-MAR-2006 13:50	1.0			5000	A		1	
013	hca13	SAMPLE	185427-002	111173	Water	10-MAR-2006 14:27	1.0			5000			1	
014	hca14	SAMPLE	185427-006	111173	Water	10-MAR-2006 15:04	1.0			5000			1	
015	hca15	SAMPLE	185427-003	111173	Water	10-MAR-2006 15:41	3.333			5000			1	180
016	hca16	SAMPLE	185427-004	111173	Water	10-MAR-2006 16:18	1.429	1		5000			1 RU 2.5X 1:DCE12C=116.232	
017	hca17	SAMPLE	185427-005	111173	Water	10-MAR-2006 16:55	2.500			5000			1	
018	hca18	SAMPLE	185408-004	111173	Water	10-MAR-2006 17:32	10.0			5000	C		1 RU 2X 1 o.p.	
019	hca19	SAMPLE	185408-005	111173	Water	10-MAR-2006 18:09	10.0			5000			1	
020	hca20	MS	QC330928	111173	Water	10-MAR-2006 18:46	1.0	3		5000	DEF		1 6 7 8	
021	hca21	MSD	QC330929	111173	Water	10-MAR-2006 19:23	1.0	3	1	5000			1 6 7 8	
022	hca22	X	IB			10-MAR-2006 20:00	1.0						1	
023	hca23	X	IB			10-MAR-2006 20:37	1.0						1	
024	hca24	X	IB			10-MAR-2006 21:13	1.0						1	

Stds used: 1=S2707 2=S2327 3=S2844 4=S2783 5=S2410 6=S2436 7=S2616 8=S2807

Analyst: RBO Date: 3/13/06

03/13/06

4,5

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 476104178 Instrument: MSVOA08 HP GCMS VOA 08 Begun: 13-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	hcd01	X	IB			13-MAR-2006 08:18	1.0						1	
002	hcd02	TUN	BFB			13-MAR-2006 08:46	1.0						2	
003	hcd03	CCV	20 PPB			13-MAR-2006 09:03	1.0	1		5000			3 4 5 1	
004	hcd04	BS	QC331160	111229	Water	13-MAR-2006 09:49	1.0	2		5000			6 7 8 1	
005	hcd05	BSD	QC331161	111229	Water	13-MAR-2006 10:26	1.0	2		5000			6 7 8 1	
006	hcd06	X	IB			13-MAR-2006 11:03	1.0						1	
007	hcd07	BLANK	QC331162	111229	Water	13-MAR-2006 11:40	1.0	1	1	5000			1	
008	hcd08	SAMPLE	185468-007	111229	Water	13-MAR-2006 12:17	1.0			5000	A	12	1 Rre/x √n-Butyl ∅	
009	hcd09	SAMPLE	185462-004	111229	Water	13-MAR-2006 12:54	1.0			5000			1	
010	hcd10	SAMPLE	185469-001	111229	Water	13-MAR-2006 13:31	1.0			5000			1	
011	hcd11	SAMPLE	185462-003	111229	Water	13-MAR-2006 14:08	1.0			5000			1	
012	hcd12	SAMPLE	185427-004	111229	Water	13-MAR-2006 14:45	2.500			5000	B		1	
013	hcd13	SAMPLE	185468-003	111229	Water	13-MAR-2006 15:23	1.0			5000	A		1 Rre/x √TCBs	
014	hcd14	SAMPLE	185468-004	111229	Water	13-MAR-2006 16:00	1.0			5000			1	
015	hcd15	SAMPLE	185468-005	111229	Water	13-MAR-2006 16:36	1.0			5000			1	181
016	hcd16	SAMPLE	185468-006	111229	Water	13-MAR-2006 17:13	1.0			5000			1	
017	hcd17	SAMPLE	185462-002	111229	Water	13-MAR-2006 17:50	1.0			5000			1	
018	hcd18	SAMPLE	185462-001	111229	Water	13-MAR-2006 18:27	4.0			5000			1	
019	hcd19	SAMPLE	185468-001	111229	Water	13-MAR-2006 19:04	6.25			5000			1 Rre 6.25x √PCE	
020	hcd20	SAMPLE	185408-004	111229	Water	13-MAR-2006 19:41	2.0			5000	D		1	
021	hcd21	SAMPLE	185408-005	111229	Water	13-MAR-2006 20:18	2.0			5000	D		1	
022	hcd22	X	IB			13-MAR-2006 20:55	1.0						1	
023	hcd23	X	IB			13-MAR-2006 21:33	1.0						1	
024	hcd24	X	IB			13-MAR-2006 22:10	1.0						1	

Stds used: 1=S2707 2=S2327 3=S2844 4=S2783 5=S2410 6=S2902 7=S2807 8=S2616

Analyst: LW Date: 3-14-06

3/14/06

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185408 8260 Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CLM	VCE	BRE	CLE	AC	DCE	MT	CCE	MS	DTB	VCE	DA	MK	DE	TL	TM	CL	DA	BC	TZ	DA	BE	MP	DM	BK	DI	BP	DC	TZ	HC	PX	DO	CE	CB	EB	XY	XL	TL	SO	TX	PY	DM	DA	BF	BM	BA	BE	BM	BE	BF
185408-001	MSVOA08	03/10/06 11:22	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185408-003	MSVOA08	03/10/06 11:58	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185408-004	MSVOA08	03/10/06 17:32	10.0																																																			
185408-004	MSVOA08	03/13/06 19:41	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185408-005	MSVOA08	03/10/06 18:09	10.0																																																			
185408-005	MSVOA08	03/13/06 20:18	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185408-008	MSVOA08	03/10/06 12:36	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185408-009	MSVOA08	03/10/06 13:13	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC330926	MSVOA08	03/10/06 08:46	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC330927	MSVOA08	03/10/06 10:07	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC330928	MSVOA08	03/10/06 18:46	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC330929	MSVOA08	03/10/06 19:23	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC331160	MSVOA08	03/13/06 09:49	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC331161	MSVOA08	03/13/06 10:26	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC331162	MSVOA08	03/13/06 11:40	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 3-10

PREPPED BY.

111177

111173

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	185395-4		B	<2			7	40x	
2	-6		↓	↓				5x	
3	-15		A	<2				1x	
4	-16		↓	↓				↓	
5	-17		↓	↓			8	EB	
6	185425-3		A	<2				TB	
7	-4		↓	<2				1x MS/MSD	2 left
8	185428-1		ABCD	<2					
9	-2		A	↓				↓	
10	-3		↓	↓					
11	-4		↓	↓				↓	
12	-5		↓	↓				1x	
13	185429-1		↓	↓				1x	
14	-2		↓	<2				10x	
15	-3		↓	<2				40x	
16	-4		↓	↓			↓	1x VCC14	
17	185395-18		B	<2					
18									
19									
20									
21	185427-1		A	<2			8	1x	
22	-2		↓	↓			↓	1x	
23	-3		↓	<2				3.3x	
24	-4		↓	↓				1.42x	
25	-5		↓	↓				2.5x	
26	-6		↓	<2				1x	
27	185408-1		C	↓				1x	
28	-3		↓	<2				10x	
29	-4		↓	↓				10x	
30	-5		↓	↓				1x MS/MSD	
31	-8		CDEF	<2				1x	
32	-9		C	↓				~~Alias 185407~~	
33	185420-1						↓		
34									
35									
36									
37									
38									
39									
40									
41									
42									

PREPFORM.XLS

7/21/98

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 3/13/96

PREPPED BY.

111229

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	185427-4		B	<2			8	RR 2.5x, cis 12DCE ok	
2	185408-4		D					pH 2x, o.d low/last	
3	-5							1x	
4	185469-1		A	<2				4x	
5	185462-1			<2				1x	
6	-2							1x	
7	-3		A		LV			TB	
8	-4							6.25x	
9	185468-1			<2				1x	
0	-3								
1	-4								
2	-5								
3	-6		A		LV			TB	
14	-7								
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
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41									
42									

PREPFORM.

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water
As of 04/05/06

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
1,1-Dichloroethene	ug/L	0.27	0.22	0.062	0.17	0.10	0.085	0.089
Benzene	ug/L	0.11	0.041	0.060	0.061	0.12	0.044	0.027
Trichloroethene	ug/L	0.21	0.076	0.18	0.17	0.11	0.072	0.087
Toluene	ug/L	0.083	0.083	0.12	0.092	0.062	0.063	0.053
Chlorobenzene	ug/L	0.10	0.090	0.11	0.16	0.16	0.079	0.050
Freon 12	ug/L	0.18	0.099	0.22	0.062	0.15	0.24	0.18
Chloromethane	ug/L	0.12	0.16	0.12	0.18	0.13	0.16	0.089
Vinyl Chloride	ug/L	0.19	0.23	0.10	0.066	0.10	0.17	0.16
Bromomethane	ug/L	0.29	0.30	0.31	0.13	0.31	0.23	0.20
Chloroethane	ug/L	0.33	0.33	0.15	0.16	0.13	0.16	0.12
Trichlorofluoromethane	ug/L	0.16	0.057	0.17	0.10	0.080	0.089	0.10
Acetone	ug/L	0.39	0.87	0.21	0.85	0.16	0.26	0.49
Freon 113	ug/L	0.062	0.12	0.13	0.25	0.071	0.20	0.091
Methylene Chloride	ug/L	0.15	0.21	0.11	0.12	0.16	0.099	0.22
MTBE	ug/L	0.069	0.074	0.065	0.045	0.040	0.051	0.052
Carbon Disulfide	ug/L	0.039	0.031	0.086	0.076	0.11	0.058	0.037
trans-1,2-Dichloroethene	ug/L	0.37	0.13	0.18	0.051	0.064	0.11	0.093
Vinyl Acetate	ug/L	0.076	0.36	0.084	0.99	0.40	0.080	0.10
1,1-Dichloroethane	ug/L	0.088	0.061	0.048	0.090	0.11	0.063	0.063
2-Butanone	ug/L	0.16	0.17	0.20	0.50	0.099	0.17	0.26
cis-1,2-Dichloroethene	ug/L	0.26	0.18	0.083	0.12	0.042	0.096	0.11
2,2-Dichloropropane	ug/L	0.093	0.17	0.077	0.12	0.066	0.084	0.083
Chloroform	ug/L	0.082	0.055	0.086	0.060	0.11	0.030	0.044
Bromochloromethane	ug/L	0.091	0.090	0.10	0.18	0.11	0.20	0.15
1,1,1-Trichloroethane	ug/L	0.084	0.066	0.14	0.11	0.061	0.045	0.041
1,1-Dichloropropene	ug/L	0.12	0.11	0.081	0.16	0.16	0.052	0.055
Carbon Tetrachloride	ug/L	0.089	0.11	0.098	0.17	0.15	0.095	0.056
1,2-Dichloroethane	ug/L	0.090	0.088	0.099	0.096	0.12	0.058	0.056
1,2-Dichloropropane	ug/L	0.093	0.060	0.079	0.071	0.14	0.072	0.12
Bromodichloromethane	ug/L	0.086	0.039	0.067	0.074	0.10	0.081	0.069
Dibromomethane	ug/L	0.16	0.061	0.092	0.16	0.11	0.065	0.13
4-Methyl-2-Pentanone	ug/L	0.044	0.076	0.057	0.20	0.13	0.092	0.25
cis-1,3-Dichloropropene	ug/L	0.068	0.065	0.056	0.20	0.16	0.042	0.044
trans-1,3-Dichloropropene	ug/L	0.074	0.074	0.044	0.073	0.14	0.071	0.060
1,1,2-Trichloroethane	ug/L	0.12	0.12	0.14	0.19	0.15	0.094	0.058
2-Hexanone	ug/L	0.043	0.31	0.047	0.34	0.11	0.13	0.14
1,3-Dichloropropane	ug/L	0.064	0.067	0.061	0.063	0.10	0.045	0.068
Tetrachloroethene	ug/L	0.13	0.14	0.12	0.22	0.14	0.090	0.093
Dibromochloromethane	ug/L	0.099	0.054	0.10	0.085	0.056	0.077	0.063
1,2-Dibromoethane	ug/L	0.16	0.061	0.10	0.073	0.11	0.053	0.070
2-Chloroethylvinylether	ug/L	0.093	0.18	0.24	0.17	0.14	0.20	0.23
1,1,1,2-Tetrachloroethane	ug/L	0.11	0.087	0.10	0.11	0.14	0.046	0.088
Ethylbenzene	ug/L	0.059	0.076	0.075	0.17	0.041	0.060	0.11
m,p-Xylenes	ug/L	0.24	0.22	0.14	0.27	0.17	0.13	0.20
o-Xylene	ug/L	0.10	0.058	0.092	0.11	0.16	0.11	0.13

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water
As of 04/05/06

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
Styrene	ug/L	0.12	0.092	0.098	0.085	0.16	0.075	0.061
Bromoform	ug/L	0.12	0.088	0.11	0.18	0.094	0.079	0.15
Isopropylbenzene	ug/L	0.12	0.059	0.090	0.18	0.059	0.053	0.10
1,1,2,2-Tetrachloroethane	ug/L	0.13	0.096	0.086	0.047	0.13	0.070	0.055
1,2,3-Trichloropropane	ug/L	0.31	0.28	0.074	0.11	0.17	0.20	0.16
Propylbenzene	ug/L	0.075	0.10	0.063	0.21	0.023	0.055	0.11
Bromobenzene	ug/L	0.12	0.12	0.10	0.19	0.12	0.073	0.085
1,3,5-Trimethylbenzene	ug/L	0.060	0.095	0.047	0.14	0.057	0.077	0.13
2-Chlorotoluene	ug/L	0.12	0.11	0.068	0.15	0.025	0.047	0.12
4-Chlorotoluene	ug/L	0.079	0.069	0.043	0.14	0.037	0.032	0.069
tert-Butylbenzene	ug/L	0.11	0.15	0.075	0.19	0.038	0.042	0.079
1,2,4-Trimethylbenzene	ug/L	0.091	0.088	0.066	0.12	0.069	0.077	0.10
sec-Butylbenzene	ug/L	0.11	0.12	0.062	0.17	0.088	0.041	0.076
para-Isopropyl Toluene	ug/L	0.058	0.12	0.12	0.14	0.056	0.055	0.045
1,3-Dichlorobenzene	ug/L	0.080	0.16	0.097	0.18	0.060	0.071	0.10
1,4-Dichlorobenzene	ug/L	0.068	0.14	0.095	0.18	0.038	0.092	0.17
n-Butylbenzene	ug/L	0.12	0.15	0.11	0.18	0.21	0.048	0.12
1,2-Dichlorobenzene	ug/L	0.072	0.14	0.080	0.14	0.16	0.068	0.061
1,2-Dibromo-3-Chloropropane	ug/L	0.39	0.25	0.21	0.22	0.13	0.26	0.098
1,2,4-Trichlorobenzene	ug/L	0.12	0.17	0.14	0.16	0.10	0.16	0.17
Hexachlorobutadiene	ug/L	0.19	0.19	0.29	0.21	0.11	0.24	0.25
Naphthalene	ug/L	0.12	0.13	0.060	0.10	0.091	0.20	0.16
1,2,3-Trichlorobenzene	ug/L	0.063	0.17	0.10	0.20	0.095	0.18	0.29
tert-Butyl Alcohol (TBA)	ug/L	1.3	1.6	0.83	2.5	1.3	0.94	1.3
Isopropyl Ether (DIPE)	ug/L	0.068	0.070	0.063	0.027	0.030	0.053	0.027
Ethyl tert-Butyl Ether (ETBE)	ug/L	0.089	0.045	0.024	0.20	0.033	0.075	0.034
Methyl tert-Amyl Ether (TAME)	ug/L	0.094	0.13	0.055	0.054	0.048	0.032	0.057
Isopropanol	ug/L	4.6	2.7	1.6	6.6	1.5	1.4	1.1
Ethanol	ug/L	55	22	23	50	11	7.9	36
Hexane	ug/L				0.33		0.15	
Cyclohexanone	ug/L	3.8	2.4	0.21	1.6	1.6	2.5	
Tetrahydrofuran	ug/L	0.64	1.2	1.1	0.79	1.4	1.7	3.5
Tetramethyl THF	ug/L	0.067	0.061	0.062	0.20	0.10	0.055	0.078
Gasoline C6-C10	ug/L		15		4.8	15	8.5	
Gasoline C7-C12	ug/L		18		2.4	13	7.7	
Dibromofluoromethane	ug/L	3.1	2.9	1.8	2.4	1.5		3.2
1,2-Dichloroethane-d4	ug/L	3.0	3.9		2.4	1.2		3.0
Toluene-d8	ug/L	1.7	3.8		1.1	1.0		1.1
Bromofluorobenzene	ug/L	2.5	2.6		1.2	1.2		1.5
Trifluorotoluene	ug/L	0.12	0.43	0.065	0.21	0.13		0.14

PESTICIDES

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	DAESP03	Batch#:	111300
Lab ID:	185408-008	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Prepared:	03/14/06
Diln Fac:	1.000	Analyzed:	03/15/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND #	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	85	65-135
Decachlorobiphenyl	93	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	DUP0308063A	Batch#:	111199
Lab ID:	185408-009	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Prepared:	03/10/06
Diln Fac:	1.000	Analyzed:	03/13/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND #	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	80	65-135
Decachlorobiphenyl	89	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331034	Batch#:	111199
Matrix:	Water	Prepared:	03/10/06
Units:	ug/L	Analyzed:	03/13/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND #	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	73	65-135
Decachlorobiphenyl	102	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331476	Batch#:	111300
Matrix:	Water	Prepared:	03/14/06
Units:	ug/L	Analyzed:	03/15/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND #	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	77	65-135
Decachlorobiphenyl	114	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331477	Batch#:	111300
Matrix:	Water	Prepared:	03/14/06
Units:	ug/L	Analyzed:	03/15/06

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	0.2000	0.1907	95	65-135
Heptachlor	0.2000	0.1719	86	65-135
Aldrin	0.2000	0.1363	68	65-135
Dieldrin	0.4000	0.4049	101	65-135
Endrin	0.4000	0.3782	95	65-135
4,4'-DDT	0.4000	0.3824 #	96	65-135

Surrogate	%REC	Limits
TCMX	73	65-135
Decachlorobiphenyl	115	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Matrix:	Water	Batch#:	111199
Units:	ug/L	Prepared:	03/10/06
Diln Fac:	1.000	Analyzed:	03/13/06

Type: BS Lab ID: QC331035

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	0.2000	0.1792	90	65-135
Heptachlor	0.2000	0.1809	90	65-135
Aldrin	0.2000	0.1759	88	65-135
Dieldrin	0.4000	0.3785	95	65-135
Endrin	0.4000	0.3636	91	65-135
4,4'-DDT	0.4000	0.3642 #	91	65-135

Surrogate	%REC	Limits
TCMX	75	65-135
Decachlorobiphenyl	103	65-135

Type: BSD Lab ID: QC331036

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	0.2000	0.1840	92	65-135	3	35
Heptachlor	0.2000	0.1865	93	65-135	3	35
Aldrin	0.2000	0.1806	90	65-135	3	35
Dieldrin	0.4000	0.3896	97	65-135	3	35
Endrin	0.4000	0.3731	93	65-135	3	35
4,4'-DDT	0.4000	0.3731 #	93	65-135	2	35

Surrogate	%REC	Limits
TCMX	82	65-135
Decachlorobiphenyl	98	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	DAESP03	Batch#:	111300
MSS Lab ID:	185408-008	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Prepared:	03/14/06
Diln Fac:	1.000	Analyzed:	03/15/06

Type: MS Lab ID: QC331478

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.006361	0.1961	0.1779	91	65-135
Heptachlor	<0.008136	0.1961	0.1918	98	65-135
Aldrin	<0.009193	0.1961	0.1767	90	65-135
Dieldrin	<0.01079	0.3922	0.3659	93	65-135
Endrin	<0.01193	0.3922	0.4181	107	65-135
4,4'-DDT	<0.01185	0.3922	0.3397 #	87	65-135

Surrogate	%REC	Limits
TCMX	92	65-135
Decachlorobiphenyl	102	65-135

Type: MSD Lab ID: QC331479

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	0.1961	0.1721	88	65-135	3	35
Heptachlor	0.1961	0.1749	89	65-135	9	35
Aldrin	0.1961	0.1675	85	65-135	5	35
Dieldrin	0.3922	0.3347	85	65-135	9	35
Endrin	0.3922	0.3870	99	65-135	8	35
4,4'-DDT	0.3922	0.3260 #	83	65-135	4	35

Surrogate	%REC	Limits
TCMX	88	65-135
Decachlorobiphenyl	92	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	1349MW02	Batch#:	111300
MSS Lab ID:	185457-016	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/14/06
Diln Fac:	1.000	Analyzed:	03/15/06

Type: MS Lab ID: QC331480

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.006299	0.1942	0.1858	96	65-135
Heptachlor	<0.008057	0.1942	0.1996	103	65-135
Aldrin	<0.009104	0.1942	0.1873	96	65-135
Dieldrin	<0.01069	0.3883	0.3745	96	65-135
Endrin	<0.01181	0.3883	0.4187	108	65-135
4,4'-DDT	<0.01174	0.3883	0.3482 #	90	65-135

Surrogate	%REC	Limits
TCMX	105	65-135
Decachlorobiphenyl	106	65-135

Type: MSD Lab ID: QC331481

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	0.1942	0.1851	95	65-135	0	35
Heptachlor	0.1942	0.1994	103	65-135	0	35
Aldrin	0.1942	0.1876	97	65-135	0	35
Dieldrin	0.3883	0.3699	95	65-135	1	35
Endrin	0.3883	0.4059	105	65-135	3	35
4,4'-DDT	0.3883	0.3008 #	77	65-135	15	35

Surrogate	%REC	Limits
TCMX	96	65-135
Decachlorobiphenyl	94	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185408 PEST Water: EPA 8081A

Inst : GC21
Calnum : 246090289001
Units : pg

Name : gc21pest062
Date : 03-MAR-2006 16:49
X Axis : R

Reviewer: MCH
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	062_007	246090289007	pest_1	03-MAR-2006 16:49	S2827
L2	062_008	246090289008	pest_2	03-MAR-2006 17:06	S2039
L3	062_009	246090289009	pest_3	03-MAR-2006 17:23	S2824
L4	062_010	246090289010	pest_4	03-MAR-2006 17:41	S2372
L5	062_011	246090289011	pest_5	03-MAR-2006 17:58	S2663
L6	062_012	246090289012	pest_6	03-MAR-2006 18:15	S2828
L7	062_013	246090289013	pest_7	03-MAR-2006 18:33	S2823

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
alpha-BHC	A	15186	14539	13770	13435	13877	13587	12182	AVRG		7.25E-5		13797	7	0.995	20	
gamma-BHC	A	13643	13740	12750	12639	13116	12334	11010	AVRG		7.84E-5		12747	7	0.995	20	
beta-BHC	A	6074.0	5916.8	5452.9	5253.8	5350.0	4961.6	4654.6	AVRG		1.86E-4		5380.5	9	0.995	20	
delta-BHC	A	13337	13643	12559	12818	13276	12231	10744	AVRG		7.90E-5		12658	8	0.995	20	
Heptachlor	A	10866	11505	10481	10418	10788	10390	9314.6	AVRG		9.49E-5		10537	6	0.995	20	
Aldrin	A	12810	12326	11449	11178	11611	10900	9480.2	AVRG		8.78E-5		11393	9	0.995	20	
Heptachlor epoxide	A	12074	11243	10575	9936.1	10310	9809.4	8521.4	AVRG		9.66E-5		10353	11	0.995	20	
gamma-Chlordane	A	12339	11468	10697	10265	10505	10142	8952.6	AVRG		9.41E-5		10624	10	0.995	20	
alpha-Chlordane	A	11835	11323	10033	10187	10465	9843.6	8590.7	AVRG		9.69E-5		10325	10	0.995	20	
4,4'-DDE	A	10909	10533	9864.5	9844.3	10154	9164.7	7141.4	AVRG		1.04E-4		9658.6	13	0.995	20	
Endosulfan I	A	11137	10504	9917.9	9314.5	9441.6	8769.4	7936.7	AVRG		1.04E-4		9574.3	11	0.995	20	
Dieldrin	A	11073	10842	10062	9943.8	10271	8910.0	6764.0	AVRG		1.03E-4		9695.0	15	0.995	20	
Endrin	A	8177.0	8056.5	7341.1	7247.0	7555.2	6952.4	5679.6	AVRG		1.37E-4		7287.0	11	0.995	20	
4,4'-DDD	A	7826.3	7569.7	7076.6	7277.2	7582.4	7258.7	5892.4	AVRG		1.39E-4		7211.9	9	0.995	20	
Endosulfan II	A	10051	9217.4	9179.9	8407.1	8568.4	7805.6	6275.6	AVRG		1.18E-4		8500.7	14	0.995	20	
4,4'-DDT	A	6746.5	7434.6	6874.2	7358.5	7640.4	7280.7	6117.6	AVRG		1.42E-4		7064.6	7	0.995	20	
Methoxychlor	A	2967.5	3121.2	2829.9	2955.0	2972.0	2393.2	1649.9	AVRG		3.71E-4		2698.4	19	0.995	20	
Endosulfan sulfate	A	7977.8	7549.4	6979.8	6805.1	7016.6	6480.9	5376.7	AVRG		1.45E-4		6883.8	12	0.995	20	
Endrin ketone	A	9050.3	8688.4	8066.8	8050.9	8307.8	7525.3	5795.7	AVRG		1.26E-4		7926.5	13	0.995	20	
TCMX	A	9987.5	9445.7	9184.7	8499.5	8783.5	8716.9	7804.2	AVRG		1.12E-4		8917.4	8	0.995	20	
Decachlorobiphenyl	A	6698.3	6152.3	5656.9	5471.6	5472.9	5372.8	4736.6	AVRG		1.77E-4		5651.6	11	0.995	20	
alpha-BHC	B	12960	12479	11566	14001	11683	12352	9907.9	AVRG		8.24E-5		12135	11	0.995	20	
gamma-BHC	B	11425	11317	10400	12744	10523	10745	8653.7	AVRG		9.23E-5		10830	11	0.995	20	
beta-BHC	B	5298.5	5149.6	4866.2	5714.7	4656.5	4774.8	3997.1	AVRG		2.03E-4		4922.5	11	0.995	20	
delta-BHC	B	10979	10445	10059	12433	10100	9924.9	7848.8	AVRG		9.75E-5		10256	13	0.995	20	
Heptachlor	B	8923.0	9901.0	9368.3	10671	8989.3	9374.4	7943.6	AVRG		1.07E-4		9310.0	9	0.995	20	

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246090289001

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aldrin	B	10566	10190	9440.4	11353	9413.9	9545.6	7800.9	AVRG		1.02E-4		9758.5	11	0.995	20	
Heptachlor epoxide	B	9735.0	9166.8	8693.1	9743.8	8194.6	8363.1	6836.3	AVRG		1.15E-4		8676.1	12	0.995	20	
gamma-Chlordane	B	10110	9445.8	8913.8	10212	8563.1	8689.4	7255.0	AVRG		1.11E-4		9027.0	11	0.995	20	
alpha-Chlordane	B	9705.0	9115.8	8403.5	10025	8247.7	8117.4	6950.3	AVRG		1.16E-4		8652.2	12	0.995	20	
4,4'-DDE	B	9225.5	8789.5	8210.6	9760.2	8133.7	7623.4	5655.7	AVRG		1.22E-4		8199.8	16	0.995	20	
Endosulfan I	B	9121.0	8979.2	8079.0	9304.9	7972.6	7794.9	6304.0	AVRG		1.22E-4		8222.2	13	0.995	20	
Dieldrin	B	9476.0	8938.0	8308.9	9777.3	8202.1	7472.2	5471.0	AVRG		1.21E-4		8235.1	18	0.995	20	
Endrin	B	6817.5	6531.9	6317.0	6753.9	5672.9	5407.8	4269.0	AVRG		1.68E-4		5967.1	15	0.995	20	
4,4'-DDD	B	7643.8	7095.7	6969.9	7942.8	6780.7	6366.8	4844.0	AVRG		1.47E-4		6806.2	15	0.995	20	
Endosulfan II	B	8202.0	7617.0	7029.2	7927.5	6804.8	6286.1	4757.7	AVRG		1.44E-4		6946.3	17	0.995	20	
4,4'-DDT	B	6763.3	7110.2	6353.1	7660.4	6434.1	6168.2	4824.1	AVRG		1.54E-4		6473.3	14	0.995	20	
Methoxychlor	B	2590.3	2574.9	2427.1	2529.4	2186.1	1792.2		AVRG		4.26E-4		2350.0	13	0.995	20	
Endosulfan sulfate	B	7470.0	6948.4	6335.6	6982.9	5972.4	5538.0	4346.8	AVRG		1.61E-4		6227.7	17	0.995	20	
Endrin ketone	B	9058.0	8221.9	7840.7	8581.4	7436.5	6589.5	4878.0	AVRG		1.33E-4		7515.1	19	0.995	20	
TCMX	B	8856.0	8219.7	7837.4	9077.1	7510.3	8110.1	6413.1	AVRG		1.25E-4		8003.4	11	0.995	20	
Decachlorobiphenyl	B	7380.0	6391.6	6027.9	6418.6	5533.5	5391.2	4346.5	AVRG		1.69E-4		5927.0	16	0.995	20	
Average EPA 8081A	A												(n=22)	11		20	
Average EPA 8081A	B												(n=22)	14		20	

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185408 PEST Water
EPA 8081A

Inst : GC21 Name : gc21pest062
Calnum : 246090289001 Cal Date: 03-MAR-2006

ICV 246090289015 (062_015 03-MAR-2006) stds: S2502

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
alpha-BHC	A	25.00	24.41	pg	-2	15	
gamma-BHC	A	25.00	24.17	pg	-3	15	
beta-BHC	A	25.00	23.72	pg	-5	15	
delta-BHC	A	25.00	24.90	pg	0	15	
Heptachlor	A	25.00	24.55	pg	-2	15	
Aldrin	A	25.00	23.91	pg	-4	15	
Heptachlor epoxide	A	25.00	23.60	pg	-6	15	
gamma-Chlordane	A	25.00	23.06	pg	-8	15	
alpha-Chlordane	A	25.00	23.17	pg	-7	15	
4,4'-DDE	A	25.00	25.01	pg	0	15	
Endosulfan I	A	25.00	23.79	pg	-5	15	
Dieldrin	A	25.00	25.17	pg	1	15	
Endrin	A	25.00	25.34	pg	1	15	
4,4'-DDD	A	25.00	24.28	pg	-3	15	
Endosulfan II	A	25.00	26.12	pg	4	15	
4,4'-DDT	A	25.00	25.76	pg	3	15	
Methoxychlor	A	25.00	32.12	pg	**28**	15	v+ ***
Endosulfan sulfate	A	25.00	25.52	pg	2	15	
Endrin ketone	A	25.00	26.09	pg	4	15	
alpha-BHC	B	25.00	26.88	pg	8	15	
gamma-BHC	B	25.00	26.54	pg	6	15	
beta-BHC	B	25.00	26.52	pg	6	15	
delta-BHC	B	25.00	25.95	pg	4	15	
Heptachlor	B	25.00	28.59	pg	14	15	
Aldrin	B	25.00	26.24	pg	5	15	
Heptachlor epoxide	B	25.00	26.31	pg	5	15	
gamma-Chlordane	B	25.00	25.47	pg	2	15	
alpha-Chlordane	B	25.00	25.66	pg	3	15	
4,4'-DDE	B	25.00	27.82	pg	11	15	
Endosulfan I	B	25.00	25.99	pg	4	15	
Dieldrin	B	25.00	27.52	pg	10	15	
Endrin	B	25.00	27.43	pg	10	15	
4,4'-DDD	B	25.00	27.80	pg	11	15	
Endosulfan II	B	25.00	28.03	pg	12	15	
4,4'-DDT	B	25.00	27.30	pg	9	15	
Methoxychlor	B	25.00	32.58	pg	**30**	15	v+ ***
Endosulfan sulfate	B	25.00	27.76	pg	11	15	
Endrin ketone	B	25.00	28.99	pg	**16**	15	v+ ***
Average EPA 8081A	A	n=20			5	15	
Average EPA 8081A	B	n=20			10	15	

+=high bias v=ICV

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 185408 PEST Water
EPA 8081A

Inst : GC21 Run Name: pem IDF : 1.0
Seqnum : 246104350002 File : 072_002 Time : 13-MAR-2006 11:27

Standards: S2664

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	617463	5	15	
4,4'-DDE	A	6673			
4,4'-DDD	A	26193			
Endrin	A	346840	6	15	
Endrin aldehyde	A	6009			
Endrin ketone	A	14838			
4,4'-DDT	B	571258	6	15	
4,4'-DDE	B	3656			
4,4'-DDD	B	33134			
Endrin	B	310432	14	15	
Endrin aldehyde	B	9986			
Endrin ketone	B	39938			

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 185408 PEST Water
EPA 8081A

Inst : GC21 Run Name: pem IDF : 1.0
Seqnum : 246104350018 File : 072_018 Time : 13-MAR-2006 18:34

Standards: S2664

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	612778	8	15	
4,4'-DDE	A	4595			
4,4'-DDD	A	48301			
Endrin	A	349991	11	15	
Endrin aldehyde	A	9362			
Endrin ketone	A	34475			
4,4'-DDT	B	512679	9	15	
4,4'-DDE	B	3487			
4,4'-DDD	B	50305			
Endrin	B	292419	**17**	15	
Endrin aldehyde	B	10100			
Endrin ketone	B	48912			

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 185408 PEST Water
EPA 8081A

Inst : GC21 Run Name: pem IDF : 1.0
Seqnum : 246107267028 File : 074_028 Time : 15-MAR-2006 19:50

Standards: S2664

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	696090	8	15	
4,4'-DDE	A	11289			
4,4'-DDD	A	53194			
Endrin	A	381539	12	15	
Endrin aldehyde	A	12264			
Endrin ketone	A	37610			
4,4'-DDT	B	645219	10	15	
4,4'-DDE	B	4648			
4,4'-DDD	B	68139			
Endrin	B	360834	**17**	15	
Endrin aldehyde	B	13262			
Endrin ketone	B	59358			

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 185408 PEST Water
EPA 8081A

Inst : GC21 Run Name: pem IDF : 1.0
Seqnum : 246107267042 File : 074_042 Time : 15-MAR-2006 23:53

Standards: S2664

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	673971	11	15	
4,4'-DDE	A	10584			
4,4'-DDD	A	70235			
Endrin	A	397808	12	15	
Endrin aldehyde	A	8997			
Endrin ketone	A	42912			
4,4'-DDT	B	579069	13	15	
4,4'-DDE	B	4501			
4,4'-DDD	B	79169			
Endrin	B	350715	**16**	15	
Endrin aldehyde	B	9903			
Endrin ketone	B	58710			

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185408 PEST Water
EPA 8081A

Inst : GC21 Run Name: pest_3 IDF : 1.0
Seqnum : 246104350004 File : 072_004 Time : 13-MAR-2006 12:02
Cal : 246090289001 Caldate : 03-MAR-2006
Standards: S2824

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	13797	12620	10.00	9.147	pg	-9	15	
gamma-BHC	A	12747	11691	10.00	9.171	pg	-8	15	
beta-BHC	A	5380.5	5027.0	10.00	9.343	pg	-7	15	
delta-BHC	A	12658	11661	10.00	9.212	pg	-8	15	
Heptachlor	A	10537	9648.4	10.00	9.156	pg	-8	15	
Aldrin	A	11393	10505	10.00	9.220	pg	-8	15	
Heptachlor epoxide	A	10353	9689.5	10.00	9.359	pg	-6	15	
gamma-Chlordane	A	10624	10005	10.00	9.418	pg	-6	15	
alpha-Chlordane	A	10325	9259.0	10.00	8.967	pg	-10	15	
4,4'-DDE	A	9658.6	9032.2	20.00	18.70	pg	-6	15	
Endosulfan I	A	9574.3	9211.0	10.00	9.621	pg	-4	15	
Dieldrin	A	9695.0	9121.6	20.00	18.82	pg	-6	15	
Endrin	A	7287.0	6788.4	20.00	18.63	pg	-7	15	
4,4'-DDD	A	7211.9	7090.9	20.00	19.66	pg	-2	15	
Endosulfan II	A	8500.7	7787.4	20.00	18.32	pg	-8	15	
4,4'-DDT	A	7064.6	5872.1	20.00	16.62	pg	**-17**	15	c- ***
Methoxychlor	A	2698.4	2604.5	100.0	96.52	pg	-3	15	
Endosulfan sulfate	A	6883.8	6653.7	20.00	19.33	pg	-3	15	
Endrin ketone	A	7926.5	7676.3	20.00	19.37	pg	-3	15	
TCMX	A	8917.4	8478.2	20.00	19.01	pg	-5	15	
Decachlorobiphenyl	A	5651.6	5546.3	20.00	19.63	pg	-2	15	
alpha-BHC	B	12135	11212	10.00	9.239	pg	-8	15	
gamma-BHC	B	10830	9915.2	10.00	9.155	pg	-8	15	
beta-BHC	B	4922.5	4561.1	10.00	9.266	pg	-7	15	
delta-BHC	B	10256	9229.4	10.00	8.999	pg	-10	15	
Heptachlor	B	9310.0	8818.6	10.00	9.472	pg	-5	15	
Aldrin	B	9758.5	9104.4	10.00	9.330	pg	-7	15	
Heptachlor epoxide	B	8676.1	8165.9	10.00	9.412	pg	-6	15	
gamma-Chlordane	B	9027.0	8445.7	10.00	9.356	pg	-6	15	
alpha-Chlordane	B	8652.2	7969.0	10.00	9.210	pg	-8	15	
4,4'-DDE	B	8199.8	7641.5	20.00	18.64	pg	-7	15	
Endosulfan I	B	8222.2	7716.3	10.00	9.385	pg	-6	15	
Dieldrin	B	8235.1	7811.3	20.00	18.97	pg	-5	15	
Endrin	B	5967.1	5464.0	20.00	18.31	pg	-8	15	
4,4'-DDD	B	6806.2	6424.1	20.00	18.88	pg	-6	15	
Endosulfan II	B	6946.3	6645.6	20.00	19.13	pg	-4	15	
4,4'-DDT	B	6473.3	5587.8	20.00	17.26	pg	-14	15	
Methoxychlor	B	2350.0	2118.8	100.0	90.16	pg	-10	15	
Endosulfan sulfate	B	6227.7	5842.2	20.00	18.76	pg	-6	15	
Endrin ketone	B	7515.1	7417.0	20.00	19.74	pg	-1	15	
TCMX	B	8003.4	7573.6	20.00	18.93	pg	-5	15	
Decachlorobiphenyl	B	5927.0	5512.0	20.00	18.60	pg	-7	15	
Average EPA 8081A	A	(n=22)					6	15	
Average EPA 8081A	B	(n=22)					7	15	

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185408 PEST Water
EPA 8081A

Inst : GC21 Run Name: pest_4 IDF : 1.0
Seqnum : 246104350019 File : 072_019 Time : 13-MAR-2006 18:52
Cal : 246090289001 Caldate : 03-MAR-2006
Standards: S2372

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	13797	12994	20.00	18.84	pg	-6	15	
gamma-BHC	A	12747	12197	20.00	19.14	pg	-4	15	
beta-BHC	A	5380.5	5018.9	20.00	18.66	pg	-7	15	
delta-BHC	A	12658	12377	20.00	19.56	pg	-2	15	
Heptachlor	A	10537	10412	20.00	19.76	pg	-1	15	
Aldrin	A	11393	10819	20.00	18.99	pg	-5	15	
Heptachlor epoxide	A	10353	9616.5	20.00	18.58	pg	-7	15	
gamma-Chlordane	A	10624	9861.4	20.00	18.56	pg	-7	15	
alpha-Chlordane	A	10325	9406.0	20.00	18.22	pg	-9	15	
4,4'-DDE	A	9658.6	9453.3	40.00	39.15	pg	-2	15	
Endosulfan I	A	9574.3	9267.7	20.00	19.36	pg	-3	15	
Dieldrin	A	9695.0	9638.4	40.00	39.77	pg	-1	15	
Endrin	A	7287.0	7008.4	40.00	38.47	pg	-4	15	
4,4'-DDD	A	7211.9	7287.4	40.00	40.42	pg	1	15	
Endosulfan II	A	8500.7	8194.0	40.00	38.56	pg	-4	15	
4,4'-DDT	A	7064.6	6705.7	40.00	37.97	pg	-5	15	
Methoxychlor	A	2698.4	2825.4	200.0	209.4	pg	5	15	
Endosulfan sulfate	A	6883.8	6768.4	40.00	39.33	pg	-2	15	
Endrin ketone	A	7926.5	8065.9	40.00	40.70	pg	2	15	
TCMX	A	8917.4	8159.1	40.00	36.60	pg	-9	15	
Decachlorobiphenyl	A	5651.6	5391.1	40.00	38.16	pg	-5	15	
alpha-BHC	B	12135	13009	20.00	21.44	pg	7	15	
gamma-BHC	B	10830	11863	20.00	21.91	pg	10	15	
beta-BHC	B	4922.5	5261.6	20.00	21.38	pg	7	15	
delta-BHC	B	10256	11630	20.00	22.68	pg	13	15	
Heptachlor	B	9310.0	10497	20.00	22.55	pg	13	15	
Aldrin	B	9758.5	10536	20.00	21.59	pg	8	15	
Heptachlor epoxide	B	8676.1	9229.3	20.00	21.28	pg	6	15	
gamma-Chlordane	B	9027.0	9564.6	20.00	21.19	pg	6	15	
alpha-Chlordane	B	8652.2	9440.2	20.00	21.82	pg	9	15	
4,4'-DDE	B	8199.8	9121.8	40.00	44.50	pg	11	15	
Endosulfan I	B	8222.2	8617.9	20.00	20.96	pg	5	15	
Dieldrin	B	8235.1	9088.6	40.00	44.15	pg	10	15	
Endrin	B	5967.1	6493.9	40.00	43.53	pg	9	15	
4,4'-DDD	B	6806.2	7590.0	40.00	44.61	pg	12	15	
Endosulfan II	B	6946.3	7550.7	40.00	43.48	pg	9	15	
4,4'-DDT	B	6473.3	6810.6	40.00	42.08	pg	5	15	
Methoxychlor	B	2350.0	2507.6	200.0	213.4	pg	7	15	
Endosulfan sulfate	B	6227.7	6524.3	40.00	41.90	pg	5	15	
Endrin ketone	B	7515.1	8140.8	40.00	43.33	pg	8	15	
TCMX	B	8003.4	8406.5	40.00	42.01	pg	5	15	
Decachlorobiphenyl	B	5927.0	5888.2	40.00	39.74	pg	-1	15	
Average EPA 8081A	A	(n=22)					4	15	
Average EPA 8081A	B	(n=22)					8	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185408 PEST Water
EPA 8081A

Inst : GC21 Run Name: pest_5 IDF : 1.0
Seqnum : 246107267030 File : 074_030 Time : 15-MAR-2006 20:24
Cal : 246090289001 Caldate : 03-MAR-2006
Standards: S2663

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	13797	13032	25.00	23.61	pg	-6	15	
gamma-BHC	A	12747	12420	25.00	24.36	pg	-3	15	
beta-BHC	A	5380.5	5137.9	25.00	23.87	pg	-5	15	
delta-BHC	A	12658	12727	25.00	25.14	pg	1	15	
Heptachlor	A	10537	10611	25.00	25.17	pg	1	15	
Aldrin	A	11393	11023	25.00	24.19	pg	-3	15	
Heptachlor epoxide	A	10353	9942.2	25.00	24.01	pg	-4	15	
gamma-Chlordane	A	10624	10123	25.00	23.82	pg	-5	15	
alpha-Chlordane	A	10325	9851.4	25.00	23.85	pg	-5	15	
4,4'-DDE	A	9658.6	9751.8	50.00	50.48	pg	1	15	
Endosulfan I	A	9574.3	9313.3	25.00	24.32	pg	-3	15	
Dieldrin	A	9695.0	9887.0	50.00	50.99	pg	2	15	
Endrin	A	7287.0	7001.8	50.00	48.04	pg	-4	15	
4,4'-DDD	A	7211.9	7292.1	50.00	50.56	pg	1	15	
Endosulfan II	A	8500.7	8953.3	50.00	52.66	pg	5	15	
4,4'-DDT	A	7064.6	6983.8	50.00	49.43	pg	-1	15	
Methoxychlor	A	2698.4	2914.0	250.0	270.0	pg	8	15	
Endosulfan sulfate	A	6883.8	7049.5	50.00	51.20	pg	2	15	
Endrin ketone	A	7926.5	8709.6	50.00	54.94	pg	10	15	
TCMX	A	8917.4	8223.2	50.00	46.11	pg	-8	15	
Decachlorobiphenyl	A	5651.6	5559.5	50.00	49.18	pg	-2	15	
alpha-BHC	B	12135	11128	25.00	22.93	pg	-8	15	
gamma-BHC	B	10830	10235	25.00	23.63	pg	-5	15	
beta-BHC	B	4922.5	4629.6	25.00	23.51	pg	-6	15	
delta-BHC	B	10256	9832.1	25.00	23.97	pg	-4	15	
Heptachlor	B	9310.0	9762.8	25.00	26.22	pg	5	15	
Aldrin	B	9758.5	9341.0	25.00	23.93	pg	-4	15	
Heptachlor epoxide	B	8676.1	8341.8	25.00	24.04	pg	-4	15	
gamma-Chlordane	B	9027.0	8550.5	25.00	23.68	pg	-5	15	
alpha-Chlordane	B	8652.2	8249.2	25.00	23.84	pg	-5	15	
4,4'-DDE	B	8199.8	8252.9	50.00	50.32	pg	1	15	
Endosulfan I	B	8222.2	8058.9	25.00	24.50	pg	-2	15	
Dieldrin	B	8235.1	8440.8	50.00	51.25	pg	2	15	
Endrin	B	5967.1	6139.3	50.00	51.44	pg	3	15	
4,4'-DDD	B	6806.2	7216.3	50.00	53.01	pg	6	15	
Endosulfan II	B	6946.3	7142.2	50.00	51.41	pg	3	15	
4,4'-DDT	B	6473.3	6326.2	50.00	48.86	pg	-2	15	
Methoxychlor	B	2350.0	2447.5	250.0	260.4	pg	4	15	
Endosulfan sulfate	B	6227.7	6201.9	50.00	49.79	pg	0	15	
Endrin ketone	B	7515.1	7910.9	50.00	52.63	pg	5	15	
TCMX	B	8003.4	7024.5	50.00	43.88	pg	-12	15	
Decachlorobiphenyl	B	5927.0	5678.5	50.00	47.90	pg	-4	15	
Average EPA 8081A	A	(n=22)					4	15	
Average EPA 8081A	B	(n=22)					4	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185408 PEST Water
EPA 8081A

Inst : GC21 Run Name: pest_3 IDF : 1.0
Seqnum : 246107267044 File : 074_044 Time : 16-MAR-2006 00:28
Cal : 246090289001 Caldate : 03-MAR-2006
Standards: S2824

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	13797	13093	10.00	9.490	pg	-5	15	
gamma-BHC	A	12747	12260	10.00	9.618	pg	-4	15	
beta-BHC	A	5380.5	5243.5	10.00	9.745	pg	-3	15	
delta-BHC	A	12658	12097	10.00	9.556	pg	-4	15	
Heptachlor	A	10537	10245	10.00	9.722	pg	-3	15	
Aldrin	A	11393	10878	10.00	9.548	pg	-5	15	
Heptachlor epoxide	A	10353	10224	10.00	9.876	pg	-1	15	
gamma-Chlordane	A	10624	10074	10.00	9.482	pg	-5	15	
alpha-Chlordane	A	10325	9596.2	10.00	9.294	pg	-7	15	
4,4'-DDE	A	9658.6	9330.8	20.00	19.32	pg	-3	15	
Endosulfan I	A	9574.3	9256.5	10.00	9.668	pg	-3	15	
Dieldrin	A	9695.0	9553.3	20.00	19.71	pg	-1	15	
Endrin	A	7287.0	6754.0	20.00	18.54	pg	-7	15	
4,4'-DDD	A	7211.9	7074.8	20.00	19.62	pg	-2	15	
Endosulfan II	A	8500.7	8998.3	20.00	21.17	pg	6	15	
4,4'-DDT	A	7064.6	5555.2	20.00	15.73	pg	**-21**	15	c- ***
Methoxychlor	A	2698.4	2574.5	100.0	95.41	pg	-5	15	
Endosulfan sulfate	A	6883.8	6978.7	20.00	20.28	pg	1	15	
Endrin ketone	A	7926.5	8424.6	20.00	21.26	pg	6	15	
TCMX	A	8917.4	8782.3	20.00	19.70	pg	-2	15	
Decachlorobiphenyl	A	5651.6	5763.9	20.00	20.40	pg	2	15	
alpha-BHC	B	12135	11535	10.00	9.505	pg	-5	15	
gamma-BHC	B	10830	10290	10.00	9.502	pg	-5	15	
beta-BHC	B	4922.5	4686.1	10.00	9.520	pg	-5	15	
delta-BHC	B	10256	9874.5	10.00	9.628	pg	-4	15	
Heptachlor	B	9310.0	9129.6	10.00	9.806	pg	-2	15	
Aldrin	B	9758.5	9419.6	10.00	9.653	pg	-3	15	
Heptachlor epoxide	B	8676.1	8643.1	10.00	9.962	pg	0	15	
gamma-Chlordane	B	9027.0	8816.5	10.00	9.767	pg	-2	15	
alpha-Chlordane	B	8652.2	8454.0	10.00	9.771	pg	-2	15	
4,4'-DDE	B	8199.8	8268.4	20.00	20.17	pg	1	15	
Endosulfan I	B	8222.2	8028.1	10.00	9.764	pg	-2	15	
Dieldrin	B	8235.1	8380.2	20.00	20.35	pg	2	15	
Endrin	B	5967.1	6193.8	20.00	20.76	pg	4	15	
4,4'-DDD	B	6806.2	7737.6	20.00	22.74	pg	14	15	
Endosulfan II	B	6946.3	7444.3	20.00	21.43	pg	7	15	
4,4'-DDT	B	6473.3	5388.8	20.00	16.65	pg	**-17**	15	c- ***
Methoxychlor	B	2350.0	2304.2	100.0	98.05	pg	-2	15	
Endosulfan sulfate	B	6227.7	6538.1	20.00	21.00	pg	5	15	
Endrin ketone	B	7515.1	8222.7	20.00	21.88	pg	9	15	
TCMX	B	8003.4	7090.6	20.00	17.72	pg	-11	15	
Decachlorobiphenyl	B	5927.0	6034.8	20.00	20.36	pg	2	15	
Average EPA 8081A	A	(n=22)					4	15	
Average EPA 8081A	B	(n=22)					5	15	

-=low bias c=CCV

SEQUENCE SUMMARY FOR 185408 PEST Water
Curtis & Tompkins Laboratories

Sequence: 246090289 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 03-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	062_001	X	primer			03-MAR-2006 15:05	1.0							
002	062_002	X	primer			03-MAR-2006 15:22	1.0							
003	062_003	X	primer			03-MAR-2006 15:40	1.0							
004	062_004	X	hex			03-MAR-2006 15:57	1.0							
005	062_005	PEM	pem			03-MAR-2006 16:14	1.0			1			1	
006	062_006	X	hex			03-MAR-2006 16:31	1.0							
007	062_007	ICAL	pest_1			03-MAR-2006 16:49	1.0						2	
008	062_008	ICAL	pest_2			03-MAR-2006 17:06	1.0						3	
009	062_009	ICAL	pest_3			03-MAR-2006 17:23	1.0						4	
010	062_010	ICAL	pest_4			03-MAR-2006 17:41	1.0						5	
011	062_011	ICAL	pest_5			03-MAR-2006 17:58	1.0						6	
012	062_012	ICAL	pest_6			03-MAR-2006 18:15	1.0						7	
013	062_013	ICAL	pest_7			03-MAR-2006 18:33	1.0						8	
014	062_014	X	hex			03-MAR-2006 18:50	1.0							
015	062_015	ICV	icv			03-MAR-2006 19:07	1.0	3		1			9	207
016	062_016	X	icv			03-MAR-2006 19:24	1.0						9	
017	062_017	X	hex			03-MAR-2006 19:42	1.0							

Stds used: 1=S2664 2=S2827 3=S2039 4=S2824 5=S2372 6=S2663 7=S2828 8=S2823 9=S2502

SEQUENCE SUMMARY FOR 185408 PEST Water
Curtis & Tompkins Laboratories

Sequence: 246104350 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 13-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	072_001	X	hex			13-MAR-2006 11:10	1.0						
002	072_002	PEM	pem			13-MAR-2006 11:27	1.0	1.0			1	1	
003	072_003	X	pest_3			13-MAR-2006 11:44	1.0					2	
004	072_004	CCV	pest_3			13-MAR-2006 12:02	1.0	1.0	1		1	2	
005	072_005	X	pest_3			13-MAR-2006 12:40	1.0					2	
006	072_006	X	hex			13-MAR-2006 13:22	1.0						
007	072_007	BLANK	QC331034	111199	Water	13-MAR-2006 13:40	1.0	0.01	1		1		
008	072_008	BS	QC331035	111199	Water	13-MAR-2006 13:57	1.0	0.01	1		1		
009	072_009	BSD	QC331036	111199	Water	13-MAR-2006 14:15	1.0	0.01	1		1		
010	072_010	SAMPLE	185381-011	111199	Water	13-MAR-2006 16:15	1.0	0.009434	1		1		
011	072_011	SAMPLE	185381-012	111199	Water	13-MAR-2006 16:33	1.0	0.009434	1		1		
012	072_012	SAMPLE	185381-013	111199	Water	13-MAR-2006 16:50	1.0	0.009524	1		1		
013	072_013	SAMPLE	185381-014	111199	Water	13-MAR-2006 17:07	1.0	0.01	1	2	1		
014	072_014	SAMPLE	185408-009	111199	Water	13-MAR-2006 17:25	1.0	0.009804	1		1		
015	072_015	SAMPLE	185443-001	111199	Water	13-MAR-2006 17:42	1.0	0.01	1		1		
016	072_016	SAMPLE	185364-001	111199	Water	13-MAR-2006 18:00	10.0	0.01	1		1		208
017	072_017	X	hex			13-MAR-2006 18:17	1.0						
018	072_018	PEM	pem			13-MAR-2006 18:34	1.0	1.0			1	1	
019	072_019	CCV	pest_4			13-MAR-2006 18:52	1.0	1.0			1	3	
020	072_020	X	pest_4			13-MAR-2006 19:09	1.0					3	
021	072_021	X	pem			13-MAR-2006 19:26	1.0					1	
022	072_022	X	hex			13-MAR-2006 19:44	1.0						
023	072_023	SAMPLE	185434-001	111199	Water	13-MAR-2006 20:01	1.0	0.009524			1		
024	072_024	SAMPLE	185434-003	111199	Water	13-MAR-2006 20:18	1.0	0.01		1	1		
025	072_025	SAMPLE	185434-004	111199	Water	13-MAR-2006 20:36	1.0	0.009524			1		
026	072_026	SAMPLE	185373-001	111199	Water	13-MAR-2006 20:53	5.0	0.009434			1		
027	072_027	BLANK	QC329812	110898	Soil	13-MAR-2006 21:11	1.0	0.6667			1		
028	072_028	LCS	QC329816	110898	Soil	13-MAR-2006 21:28	1.0	0.6667	2		1		
029	072_029	SAMPLE	184976-020	110898	Soil	13-MAR-2006 21:45	20.0	0.6667			1		
030	072_030	X	hex			13-MAR-2006 22:03	1.0						
031	072_031	PEM	pem			13-MAR-2006 22:20	1.0	1.0			1	1	

Stds used: 1=S2664 2=S2824 3=S2372 4=S2663

SEQUENCE SUMMARY FOR 185408 PEST Water
Curtis & Tompkins Laboratories

Sequence: 246104350 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 13-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	072_032	CCV	pest_5			13-MAR-2006 22:37	1.0	1.0	2		1	4	
033	072_033	X	pest_5			13-MAR-2006 22:55	1.0					4	
034	072_034	X	pem			13-MAR-2006 23:12	1.0					1	
035	072_035	X	hex			13-MAR-2006 23:29	1.0						

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Stds used: 1=S2664 2=S2824 3=S2372 4=S2663

SEQUENCE SUMMARY FOR 185408 PEST Water
Curtis & Tompkins Laboratories

Sequence: 246107267 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 15-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	074_001	X	hex			15-MAR-2006 10:55	1.0						
002	074_002	X	pem			15-MAR-2006 11:12	1.0					1	
003	074_003	X	pest_3			15-MAR-2006 11:30	1.0					2	
004	074_004	CCV	pest_3			15-MAR-2006 11:47	1.0	1.0			1	2	
005	074_005	PEM	pem			15-MAR-2006 12:06	1.0	1.0			1	1	
006	074_006	X	chlordane			15-MAR-2006 12:24	1.0					3	
007	074_007	ICAL	chlordane			15-MAR-2006 12:41	1.0	1.0				3	
008	074_008	X	hex			15-MAR-2006 13:09	1.0						
009	074_009	SAMPLE	185004-004	110898	Soil	15-MAR-2006 13:35	20.0	0.6671			1		
010	074_010	SAMPLE	185004-012	111036	Soil	15-MAR-2006 13:52	5.0	0.6667	8		1	sh	
011	074_011	X	hex			15-MAR-2006 14:15	1.0						
012	074_012	CCV	chlordane			15-MAR-2006 14:32	1.0	1.0			1	3	
013	074_013	X	chlordane			15-MAR-2006 14:50	1.0					3	
014	074_014	PEM	pem			15-MAR-2006 15:07	1.0	1.0			1	1	
015	074_015	CCV	pest_4			15-MAR-2006 15:25	1.0	1.0	4		1	4	210
019	074_019	BLANK	QC331507	111307	Soil	15-MAR-2006 17:13	1.0	0.6667			1		
020	074_020	LCS	QC331508	111307	Soil	15-MAR-2006 17:31	1.0	0.6667	4		1		
021	074_021	MSS	185500-001	111307	Soil	15-MAR-2006 17:48	1.0	0.6667			1		
022	074_022	SAMPLE	185500-002	111307	Soil	15-MAR-2006 18:05	1.0	0.6734			1		
023	074_023	SAMPLE	185507-001	111307	Soil	15-MAR-2006 18:23	10.0	0.6579	1		1	4:ENDRIN=276.916	
024	074_024	SAMPLE	185508-001	111307	Soil	15-MAR-2006 18:40	10.0	0.6775	1		1	6:ENDRIN=345.936	
025	074_025	MS	QC331509	111307	Soil	15-MAR-2006 18:57	1.0	0.6698	4		1		
026	074_026	MSD	QC331510	111307	Soil	15-MAR-2006 19:15	1.0	0.6645	4		1		
028	074_028	PEM	pem			15-MAR-2006 19:50	1.0	1.0			1	1	
029	074_029	X	pest_5			15-MAR-2006 20:07	1.0					5	
030	074_030	CCV	pest_5			15-MAR-2006 20:24	1.0	1.0			1	5	
031	074_031	X	pem			15-MAR-2006 20:42	1.0					1	
033	074_033	BLANK	QC331476	111300	Water	15-MAR-2006 21:17	1.0	0.01	2	1	1		
034	074_034	LCS	QC331477	111300	Water	15-MAR-2006 21:34	1.0	0.01	2	2	1		
035	074_035	MSS	185408-008	111300	Water	15-MAR-2006 21:51	1.0	0.009804	2		1		

Stds used: 1=S2664 2=S2824 3=S2830 4=S2372 5=S2663
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 185408 PEST Water
Curtis & Tompkins Laboratories

Sequence: 246107267 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 15-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
036	074_036	MSS	185457-016	111300	Water	15-MAR-2006 22:09	1.0	0.009709	2		1		
037	074_037	MS	QC331478	111300	Water	15-MAR-2006 22:26	1.0	0.009804	2	1	1		
038	074_038	MSD	QC331479	111300	Water	15-MAR-2006 22:43	1.0	0.009804	2		1		
039	074_039	MS	QC331480	111300	Water	15-MAR-2006 23:01	1.0	0.009709	2		1		
040	074_040	MSD	QC331481	111300	Water	15-MAR-2006 23:18	1.0	0.009709	2		1		
042	074_042	PEM	pem			15-MAR-2006 23:53	1.0	1.0			1	1	
043	074_043	X	pest_3			16-MAR-2006 00:10	1.0					2	
044	074_044	CCV	pest_3			16-MAR-2006 00:28	1.0	1.0	2		1	2	
045	074_045	X	pem			16-MAR-2006 00:45	1.0					1	
047	074_047	SAMPLE	185487-003	111307	Soil	16-MAR-2006 01:20	10.0	0.6649	2		1		
048	074_048	SAMPLE	185487-004	111307	Soil	16-MAR-2006 01:37	5.0	0.6716	2	2	1		
049	074_049	SAMPLE	185487-005	111307	Soil	16-MAR-2006 01:54	5.0	0.6743	2	1	1		
050	074_050	SAMPLE	185487-006	111307	Soil	16-MAR-2006 02:12	50.0	0.6667	2		1		
052	074_052	PEM	pem			16-MAR-2006 02:47	1.0	1.0			1	1	
053	074_053	CCV	pest_4			16-MAR-2006 03:04	1.0	1.0			1	4	
054	074_054	X	pest_4			16-MAR-2006 03:21	1.0					4	
055	074_055	X	pem			16-MAR-2006 03:39	1.0					1	

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Stds used: 1=S2664 2=S2824 3=S2830 4=S2372 5=S2663
Flags used: sh=out of sample hold

REPORTING SUMMARY FOR 185408 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185408-008	alpha-BHC	GC21	A	03/15/06 21:51
185408-008	beta-BHC	GC21	A	03/15/06 21:51
185408-008	gamma-BHC	GC21	A	03/15/06 21:51
185408-008	delta-BHC	GC21	A	03/15/06 21:51
185408-008	Heptachlor	GC21	A	03/15/06 21:51
185408-008	Aldrin	GC21	A	03/15/06 21:51
185408-008	Heptachlor epoxide	GC21	A	03/15/06 21:51
185408-008	Endosulfan I	GC21	A	03/15/06 21:51
185408-008	Dieldrin	GC21	A	03/15/06 21:51
185408-008	4,4'-DDE	GC21	A	03/15/06 21:51
185408-008	Endrin	GC21	A	03/15/06 21:51
185408-008	Endosulfan II	GC21	A	03/15/06 21:51
185408-008	Endosulfan sulfate	GC21	A	03/15/06 21:51
185408-008	4,4'-DDD	GC21	A	03/15/06 21:51
185408-008	4,4'-DDT	GC21	A	03/15/06 21:51
185408-008	alpha-Chlordane	GC21	A	03/15/06 21:51
185408-008	gamma-Chlordane	GC21	A	03/15/06 21:51
185408-008	Methoxychlor	GC21	A	03/15/06 21:51
185408-008	Endrin ketone	GC21	A	03/15/06 21:51
185408-008	Toxaphene	GC21	A	03/15/06 21:51
185408-008	TCMX	GC21	A	03/15/06 21:51
185408-008	Decachlorobiphenyl	GC21	A	03/15/06 21:51
185408-009	alpha-BHC	GC21	A	03/13/06 17:25
185408-009	beta-BHC	GC21	A	03/13/06 17:25
185408-009	gamma-BHC	GC21	A	03/13/06 17:25
185408-009	delta-BHC	GC21	A	03/13/06 17:25
185408-009	Heptachlor	GC21	A	03/13/06 17:25
185408-009	Aldrin	GC21	A	03/13/06 17:25
185408-009	Heptachlor epoxide	GC21	A	03/13/06 17:25
185408-009	Endosulfan I	GC21	A	03/13/06 17:25
185408-009	Dieldrin	GC21	A	03/13/06 17:25
185408-009	4,4'-DDE	GC21	A	03/13/06 17:25
185408-009	Endrin	GC21	A	03/13/06 17:25
185408-009	Endosulfan II	GC21	A	03/13/06 17:25
185408-009	Endosulfan sulfate	GC21	A	03/13/06 17:25
185408-009	4,4'-DDD	GC21	A	03/13/06 17:25
185408-009	4,4'-DDT	GC21	A	03/13/06 17:25
185408-009	alpha-Chlordane	GC21	A	03/13/06 17:25
185408-009	gamma-Chlordane	GC21	A	03/13/06 17:25
185408-009	Methoxychlor	GC21	A	03/13/06 17:25
185408-009	Endrin ketone	GC21	A	03/13/06 17:25
185408-009	Toxaphene	GC21	A	03/13/06 17:25
185408-009	TCMX	GC21	A	03/13/06 17:25
185408-009	Decachlorobiphenyl	GC21	A	03/13/06 17:25
QC331034	alpha-BHC	GC21	A	03/13/06 13:40
QC331034	beta-BHC	GC21	A	03/13/06 13:40
QC331034	gamma-BHC	GC21	A	03/13/06 13:40
QC331034	delta-BHC	GC21	A	03/13/06 13:40
QC331034	Heptachlor	GC21	A	03/13/06 13:40
QC331034	Aldrin	GC21	A	03/13/06 13:40
QC331034	Heptachlor epoxide	GC21	A	03/13/06 13:40
QC331034	Endosulfan I	GC21	A	03/13/06 13:40

REPORTING SUMMARY FOR 185408 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC331034	Dieldrin	GC21	A	03/13/06 13:40
QC331034	4,4'-DDE	GC21	A	03/13/06 13:40
QC331034	Endrin	GC21	A	03/13/06 13:40
QC331034	Endosulfan II	GC21	A	03/13/06 13:40
QC331034	Endosulfan sulfate	GC21	A	03/13/06 13:40
QC331034	4,4'-DDD	GC21	A	03/13/06 13:40
QC331034	4,4'-DDT	GC21	A	03/13/06 13:40
QC331034	alpha-Chlordane	GC21	A	03/13/06 13:40
QC331034	gamma-Chlordane	GC21	A	03/13/06 13:40
QC331034	Methoxychlor	GC21	A	03/13/06 13:40
QC331034	Endrin ketone	GC21	A	03/13/06 13:40
QC331034	Toxaphene	GC21	A	03/13/06 13:40
QC331034	TCMX	GC21	A	03/13/06 13:40
QC331034	Decachlorobiphenyl	GC21	A	03/13/06 13:40
QC331035	gamma-BHC	GC21	A	03/13/06 13:57
QC331035	Heptachlor	GC21	A	03/13/06 13:57
QC331035	Aldrin	GC21	A	03/13/06 13:57
QC331035	Dieldrin	GC21	A	03/13/06 13:57
QC331035	Endrin	GC21	A	03/13/06 13:57
QC331035	4,4'-DDT	GC21	A	03/13/06 13:57
QC331035	TCMX	GC21	A	03/13/06 13:57
QC331035	Decachlorobiphenyl	GC21	A	03/13/06 13:57
QC331036	gamma-BHC	GC21	A	03/13/06 14:15
QC331036	Heptachlor	GC21	A	03/13/06 14:15
QC331036	Aldrin	GC21	A	03/13/06 14:15
QC331036	Dieldrin	GC21	A	03/13/06 14:15
QC331036	Endrin	GC21	A	03/13/06 14:15
QC331036	4,4'-DDT	GC21	A	03/13/06 14:15
QC331036	TCMX	GC21	A	03/13/06 14:15
QC331036	Decachlorobiphenyl	GC21	A	03/13/06 14:15
QC331476	alpha-BHC	GC21	A	03/15/06 21:17
QC331476	beta-BHC	GC21	A	03/15/06 21:17
QC331476	gamma-BHC	GC21	A	03/15/06 21:17
QC331476	delta-BHC	GC21	A	03/15/06 21:17
QC331476	Heptachlor	GC21	A	03/15/06 21:17
QC331476	Aldrin	GC21	A	03/15/06 21:17
QC331476	Heptachlor epoxide	GC21	A	03/15/06 21:17
QC331476	Endosulfan I	GC21	A	03/15/06 21:17
QC331476	Dieldrin	GC21	A	03/15/06 21:17
QC331476	4,4'-DDE	GC21	A	03/15/06 21:17
QC331476	Endrin	GC21	A	03/15/06 21:17
QC331476	Endosulfan II	GC21	A	03/15/06 21:17
QC331476	Endosulfan sulfate	GC21	A	03/15/06 21:17
QC331476	4,4'-DDD	GC21	A	03/15/06 21:17
QC331476	4,4'-DDT	GC21	A	03/15/06 21:17
QC331476	alpha-Chlordane	GC21	A	03/15/06 21:17
QC331476	gamma-Chlordane	GC21	A	03/15/06 21:17
QC331476	Methoxychlor	GC21	A	03/15/06 21:17
QC331476	Endrin ketone	GC21	A	03/15/06 21:17
QC331476	Toxaphene	GC21	A	03/15/06 21:17
QC331476	TCMX	GC21	A	03/15/06 21:17

REPORTING SUMMARY FOR 185408 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC331476	Decachlorobiphenyl	GC21	A	03/15/06 21:17
QC331477	gamma-BHC	GC21	A	03/15/06 21:34
QC331477	Heptachlor	GC21	A	03/15/06 21:34
QC331477	Aldrin	GC21	A	03/15/06 21:34
QC331477	Dieldrin	GC21	A	03/15/06 21:34
QC331477	Endrin	GC21	A	03/15/06 21:34
QC331477	4,4'-DDT	GC21	A	03/15/06 21:34
QC331477	TCMX	GC21	A	03/15/06 21:34
QC331477	Decachlorobiphenyl	GC21	A	03/15/06 21:34
QC331478	gamma-BHC	GC21	A	03/15/06 22:26
QC331478	Heptachlor	GC21	A	03/15/06 22:26
QC331478	Aldrin	GC21	A	03/15/06 22:26
QC331478	Dieldrin	GC21	A	03/15/06 22:26
QC331478	Endrin	GC21	A	03/15/06 22:26
QC331478	4,4'-DDT	GC21	A	03/15/06 22:26
QC331478	TCMX	GC21	A	03/15/06 22:26
QC331478	Decachlorobiphenyl	GC21	A	03/15/06 22:26
QC331479	gamma-BHC	GC21	A	03/15/06 22:43
QC331479	Heptachlor	GC21	A	03/15/06 22:43
QC331479	Aldrin	GC21	A	03/15/06 22:43
QC331479	Dieldrin	GC21	A	03/15/06 22:43
QC331479	Endrin	GC21	A	03/15/06 22:43
QC331479	4,4'-DDT	GC21	A	03/15/06 22:43
QC331479	TCMX	GC21	A	03/15/06 22:43
QC331479	Decachlorobiphenyl	GC21	A	03/15/06 22:43
QC331480	gamma-BHC	GC21	A	03/15/06 23:01
QC331480	Heptachlor	GC21	A	03/15/06 23:01
QC331480	Aldrin	GC21	A	03/15/06 23:01
QC331480	Dieldrin	GC21	A	03/15/06 23:01
QC331480	Endrin	GC21	A	03/15/06 23:01
QC331480	4,4'-DDT	GC21	A	03/15/06 23:01
QC331480	TCMX	GC21	A	03/15/06 23:01
QC331480	Decachlorobiphenyl	GC21	A	03/15/06 23:01
QC331481	gamma-BHC	GC21	A	03/15/06 23:18
QC331481	Heptachlor	GC21	A	03/15/06 23:18
QC331481	Aldrin	GC21	A	03/15/06 23:18
QC331481	Dieldrin	GC21	A	03/15/06 23:18
QC331481	Endrin	GC21	A	03/15/06 23:18
QC331481	4,4'-DDT	GC21	A	03/15/06 23:18
QC331481	TCMX	GC21	A	03/15/06 23:18
QC331481	Decachlorobiphenyl	GC21	A	03/15/06 23:18

Curtis & Tompkins Laboratories **Sample Preparation Summary** **13-MAR-2006 17:36**

Batch Number : 111199
Date Extracted: 10-MAR-2006
Extracted by : Sandra Felipe Luna
Prep Method : 3520C

Analysis : 8081
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2719B
Spike #2 ID : S2744F
Spike #3 ID :
SOP Version : 8081w_rv14

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185364-001		CH2M Hill Constructors Inc.	Water	1000	mL	10	0.010000	1	6	.02	0		8081		
185373-001		Acme Fill Corp.	Water	1060	mL	10	0.009434	1	7	.02	0		8081		
185381-011		Treadwell & Rollo	Water	1060	mL	10	0.009434	1	6	.02	0		8081		
185381-012		Treadwell & Rollo	Water	1060	mL	10	0.009434	1	6	.02	0		8081		
185381-013		Treadwell & Rollo	Water	1050	mL	10	0.009524	1	6	.02	0		8081		
185381-014		Treadwell & Rollo	Water	1000	mL	10	0.010000	1	6	.02	0		8081		
185408-009		Treadwell & Rollo	Water	1020	mL	10	0.009804	1	6	.02	0		8081		
185434-001		LFR Levine Fricke	Water	1050	mL	10	0.009524	1	6	.02	0		8081		
185434-003		LFR Levine Fricke	Water	1000	mL	10	0.010000	1	6	.02	0		8081		
185434-004		LFR Levine Fricke	Water	1050	mL	10	0.009524	1	6	.02	0		8081		
185443-001		CH2M Hill Constructors Inc.	Water	1000	mL	10	0.010000	1	6	.02	0		8081		
QC331034	BLANK		Water	1000	mL	10	0.010000	1		.02	0		8081		
QC331035	BS		Water	1000	mL	10	0.010000	1		.02	.025		8081		
QC331036	BSD		Water	1000	mL	10	0.010000	1		.02	.025		8081		

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Prep Chemist: [signature] Reviewed By: [signature] Date: 3/13/06

Relinquished By: JDM for DLM Received By: [signature] Date: 03/14/06

Curtis & Tompkins, Ltd

8081 WATER PREP LOG

BK2210

LIMS Batch No: 111199
LIMS Analysis: 8081
Extracted by: SFL
Date Extracted: 3/10/06

Extraction Method:
- ☐ EPA 3510c sep. funnel
- ☑ EPA 3520c cont. L/L
- ☐ _____

Cleanup Method (if needed):
- ☐ EPA 3640a GPC
- ☐ EPA 3620b Florisil
- ☐ _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185364-001 E	1000	6	10.0		
185373-001 M	1060	7			
185381-011		6			
-012 J					
-013 K	1050				
-014	1000				removed from batch JDM 3/13/06
185408-008 AH	1010				
-009 O	1020				
185434-001 E	1050				
-003	1000				
-004	1050				
MB QC331034	1000	N/A			
BS 5					
BSD 6					
185443-001D		6			*

DLM 3/11/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.02 mL of surrogate solution was added to all samples	S27198	SFL 3/10/06
0.025 mL of matrix spiking solution was added to all spikes	S2744F	
☑ Samples continuously extracted with about 450 mL of CH_2Cl_2	EM46014	
Extraction Start Time:	1132 / *1152	
Extraction End Time:	0605 / *0605	DLM 3/11/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	
Extracts filtered through baked, CH_2Cl_2-rinsed ~~powdered~~ granular Na_2SO_4	EM45118532	
Exchanged 2x with Hexane	CP890	
Concentrated: ☑ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Florisil	NA	

3/10/06
Extraction Chemist Date

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Jessie Mee 3/13/06
Reviewed by Date

Curtis & Tompkins Laboratories **Sample Preparation Summary** **15-MAR-2006 15:54**

Batch Number : 111300
Date Extracted: 14-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : 8081
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2719A
Spike #2 ID : S2744B
Spike #3 ID :
SOP Version : 8081w_rv14

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185408-008			Treadwell & Rollo	Water	1020	mL	10	0.009804	1	5	.02	0		8081		
185457-016			Treadwell & Rollo	Water	1030	mL	10	0.009709	1	5	.02	0		8081		
QC331476	BLANK			Water	1000	mL	10	0.010000	1		.02	0		8081		
QC331477	LCS			Water	1000	mL	10	0.010000	1		.02	.025		8081		
QC331478	MS	of 185408-008		Water	1020	mL	10	0.009804	1	5	.02	.025		8081		
QC331479	MSD	of 185408-008		Water	1020	mL	10	0.009804	1	5	.02	.025		8081		
QC331480	MS	of 185457-016		Water	1030	mL	10	0.009709	1	5	.02	.025		8081		
QC331481	MSD	of 185457-016		Water	1030	mL	10	0.009709	1	5	.02	.025		8081		

Prep Chemist: Jessie Mee Reviewed By: Date: 03/16/06

Relinquished By: Received By: Date: 3/17/06

Curtis & Tompkins, Ltd

8081 WATER PREP LOG

BK2210

LIMS Batch No: 111300
LIMS Analysis: 8081
Extracted by: JDM
Date Extracted: 14 Mar 06

Extraction Method:
- ☐ EPA 3510c sep. funnel
- ☒ EPA 3520c cont. L/L
- ☐ _____

Cleanup Method (if needed):
- ☐ EPA 3640a GPC
- ☐ EPA 3620b Florisil
- ☐ _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185408-008 AL	1020	5	10.0		MSS
185457-016 Y	1030	5	↓		MSS
MB QC 3314 7776	1000	NA	↓		
LCS 78 77	1000	↓	↓		
MS 78	1020	5	↓		185408-008 AQ
MSD 8279	1020	↓	↓		↓ AR
MS 80	1030	↓	↓		185457-016 Z
MSD 81	1030	↓	↓		↓ AA

JDM 3/14/06

3/15/06

0.02 mL of surrogate **solution was** added to all samples

0.025 mL of matrix spiking **solution** was added to all spikes

☒ Samples continuously **extracted with about** 450 mL of CH_2Cl_2

Extraction Start Time: 1455

Extraction End Time: 0900

☐ Samples were **extracted 3 times with 60** mL of CH_2Cl_2

Extracts filtered through **baked**, CH_2Cl_2-rinsed ~~powdered~~ granular Na_2SO_4

Exchanged 2x with Hexane

Concentrated: ☑ to volumes as noted above ☐ to clean-up volume

Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Florisil

	Mfg & Lot# / LIMS # / Time	Date/ Initials
	S2719A	JDM 3/14/06
	S2744B	↓
	EM46014	↓
	1455	↓
	0900	DLM 3/15/06
	N/A	SFL 3/15/06
	tm45118532	↓
	CP890	↓
	✓	↓
	N/A	↓

Jenna Lee 3/14/06
Extraction Chemist **Date**

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03/22/06
Reviewed by **Date**

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8081A Water
As of 04/05/06

Analyte	Units	GC21 A	GC21 B	GC16 A	GC16 B	GC23 A	GC23 B
gamma-BHC	ug/L	0.0065	0.0039	0.0032	0.0025	0.0029	0.0039
Heptachlor	ug/L	0.0083	0.0056	0.0057	0.0061	0.0029	0.0055
Aldrin	ug/L	0.0094	0.0070	0.0066	0.0066	0.0062	0.0077
Dieldrin	ug/L	0.011	0.0051	0.0074	0.0070	0.0041	0.0097
Endrin	ug/L	0.012	0.011	0.0095	0.0083	0.0054	0.011
4,4'-DDT	ug/L	0.012	0.0071	0.011	0.0099	0.0088	0.0087
alpha-BHC	ug/L	0.0063	0.0040	0.0029	0.0027	0.0032	0.0049
beta-BHC	ug/L	0.0061	0.011	0.0033	0.0052	0.0029	0.0055
delta-BHC	ug/L	0.0065	0.0023	0.0040	0.0026	0.0018	0.0041
Heptachlor epoxide	ug/L	0.0066	0.0097	0.0033	0.0032	0.0028	0.0044
gamma-Chlordane	ug/L	0.0064	0.011	0.0041	0.0037	0.0020	0.0042
alpha-Chlordane	ug/L	0.010	0.0052	0.0045	0.0036	0.0023	0.0052
Endosulfan I	ug/L	0.0062	0.0033	0.0043	0.0032	0.0026	0.0048
4,4'-DDE	ug/L	0.011	0.0057	0.010	0.0082	0.0045	0.0097
Endosulfan II	ug/L	0.013	0.0077	0.0088	0.0073	0.0066	0.0097
Endosulfan sulfate	ug/L	0.0096	0.0054	0.015	0.0087	0.0054	0.0093
4,4'-DDD	ug/L	0.011	0.0096	0.0088	0.0090	0.0033	0.010
Endrin aldehyde	ug/L	0.010	0.0092	0.0084	0.0086	0.0052	0.0088
Chlordane (Technical)	ug/L	0.26	0.21	0.19	0.19	0.17	0.21
Methoxychlor	ug/L	0.050	0.018	0.057	0.080	0.043	0.051
Endrin ketone	ug/L	0.0083	0.023	0.027	0.0095	0.0051	0.015
Toxaphene	ug/L	0.47	0.32	0.16	0.58	0.55	0.49

PCBs

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Matrix:	Water	Sampled:	03/08/06
Units:	ug/L	Received:	03/09/06
Diln Fac:	1.000	Prepared:	03/10/06
Batch#:	111200	Analyzed:	03/12/06

Field ID: DAESP03 Lab ID: 185408-008
Type: SAMPLE Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.48
Aroclor-1221	ND	0.95
Aroclor-1232	ND	0.48
Aroclor-1242	ND	0.48
Aroclor-1248	ND	0.48
Aroclor-1254	ND	0.48
Aroclor-1260	ND	0.48

Surrogate	%REC	Limits
TCMX	116	65-135
Decachlorobiphenyl	71	65-135

Field ID: DUP0308063A Lab ID: 185408-009
Type: SAMPLE Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.48
Aroclor-1221	ND	0.95
Aroclor-1232	ND	0.48
Aroclor-1242	ND	0.48
Aroclor-1248	ND	0.48
Aroclor-1254	ND	0.48
Aroclor-1260	ND	0.48

Surrogate	%REC	Limits
TCMX	115	65-135
Decachlorobiphenyl	74	65-135

Type: BLANK Cleanup Method: EPA 3665A
Lab ID: QC331037

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	118	65-135
Decachlorobiphenyl	120	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331038	Batch#:	111200
Matrix:	Water	Prepared:	03/10/06
Units:	ug/L	Analyzed:	03/13/06

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	10.00	7.908	79	60-140

Surrogate	%REC	Limits
TCMX	95	65-135
Decachlorobiphenyl	95	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Field ID:	DAESP03	Batch#:	111200
MSS Lab ID:	185408-008	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Prepared:	03/10/06
Diln Fac:	1.000	Analyzed:	03/13/06

Type: MS Cleanup Method: EPA 3665A
Lab ID: QC331039

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1221	<0.2931	9.524	8.567	90	55-148

Surrogate	%REC	Limits
TCMX	99	65-135
Decachlorobiphenyl	96	65-135

Type: MSD Cleanup Method: EPA 3665A
Lab ID: QC331040

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1221	9.524	7.037	74	55-148	20	30

Surrogate	%REC	Limits
TCMX	89	65-135
Decachlorobiphenyl	77	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185408 PCBS Water: EPA 8082

Inst : GC06
Calnum : 206080100001
Units : pg

Name : ar1660
Date : 24-FEB-2006 20:11
X Axis : R

Reviewer: CW
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	055_007	206080100007	pcb10_2	24-FEB-2006 20:11	S2097
L2	055_008	206080100008	pcb25_5	24-FEB-2006 20:38	S2098
L3	055_009	206080100009	pcb100_20	24-FEB-2006 21:06	S2099
L4	055_010	206080100010	pcb250_50	24-FEB-2006 21:33	S2770
L5	055_011	206080100011	pcb500_100	24-FEB-2006 22:01	S2771
L6	055_012	206080100012	pcb750_150	24-FEB-2006 22:28	S2102
L7	055_013	206080100013	pcb1000_200	24-FEB-2006 22:56	S2103

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aroclor-1016 Peak # 1	A	273.40	237.44	212.23	203.01	189.02	176.97	188.12	AVRG		0.00473		211.46	16	.99	20	
Aroclor-1016 Peak # 2	A	548.90	512.20	439.33	404.10	364.83	335.04	348.42	AVRG		0.00237		421.83	20	.99	20	
Aroclor-1016 Peak # 3	A	293.00	287.44	255.41	253.75	243.79	225.75	247.18	AVRG		0.00388		258.05	9	.99	20	
Aroclor-1016 Peak # 4	A	150.20	147.56	133.14	139.26	137.92	132.46	151.28	AVRG		0.00706		141.69	6	.99	20	
Aroclor-1016 Peak # 5	A	263.90	253.24	236.68	225.76	219.28	200.39	212.79	AVRG		0.00434		230.29	10	.99	20	
Aroclor-1260 Peak # 1	A	554.20	530.28	456.78	426.96	399.03	358.84	400.27	AVRG		0.00224		446.62	16	.99	20	
Aroclor-1260 Peak # 2	A	745.60	710.44	634.84	601.22	568.16	512.07	577.91	AVRG		0.00161		621.46	13	.99	20	
Aroclor-1260 Peak # 3	A	601.40	610.92	534.66	541.80	538.61	501.04	595.07	AVRG		0.00178		560.50	7	.99	20	
Aroclor-1260 Peak # 4	A	705.50	636.68	591.31	586.90	588.23	539.34	666.53	AVRG		0.00162		616.36	9	.99	20	
Aroclor-1260 Peak # 5	A	318.20	414.32	303.63	303.42	310.49	289.76	369.61	AVRG		0.00303		329.92	14	.99	20	
TCMX	A	7282.5	7139.6	6840.5	7446.6	7554.1	7369.8	7949.9	AVRG		1.36E-4		7369.0	5	.99	20	
Decachlorobiphenyl	A	9302.0	8720.0	7501.1	7270.5	7147.8	6228.7	7742.4	AVRG		1.30E-4		7701.8	13	.99	20	
Aroclor-1016 Peak # 1	B	151.30	151.40	133.12	132.23	125.78	118.63	125.68	AVRG		0.00746		134.02	10	.99	20	
Aroclor-1016 Peak # 2	B	204.90	195.28	171.90	168.30	159.20	146.69	160.07	AVRG		0.00580		172.33	12	.99	20	
Aroclor-1016 Peak # 3	B	456.10	425.32	392.35	394.28	401.38	388.54	440.21	AVRG		0.00242		414.03	6	.99	20	
Aroclor-1016 Peak # 4	B	214.00	205.84	199.02	190.41	186.57	176.25	196.75	AVRG		0.00511		195.55	6	.99	20	
Aroclor-1016 Peak # 5	B	147.70	141.20	127.05	120.40	113.08	105.67	115.90	AVRG		0.00804		124.43	12	.99	20	
Aroclor-1260 Peak # 1	B	405.60	389.60	337.09	317.43	289.65	268.05	292.32	AVRG		0.00304		328.53	16	.99	20	
Aroclor-1260 Peak # 2	B	248.20	162.20	209.23	191.16	181.42	166.39	193.58	AVRG		0.00518		193.17	15	.99	20	
Aroclor-1260 Peak # 3	B	236.70	242.44	200.47	191.34	179.60	170.58	199.07	AVRG		0.00493		202.89	13	.99	20	
Aroclor-1260 Peak # 4	B	485.50	455.40	405.02	394.28	386.98	360.23	439.96	AVRG		0.00239		418.20	10	.99	20	
Aroclor-1260 Peak # 5	B	310.50	243.04	201.52	196.66	199.69	185.99	234.06	AVRG		0.00445		224.49	19	.99	20	
TCMX	B	4884.5	4711.4	4507.1	5053.8	5279.3	5199.5	5685.3	AVRG		1.98E-4		5045.8	8	.99	20	
Decachlorobiphenyl	B	6245.0	5690.6	4667.1	4431.4	4321.4	3789.4	4749.3	AVRG		2.07E-4		4842.0	17	.99	20	

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CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185408 PCBS Water
EPA 8082

Inst : GC06 Name : ar1660
Calnum : 206080100001 Cal Date: 24-FEB-2006

ICV 206080100016 (055_016 25-FEB-2006) stds: S2181

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Aroclor-1016	A	250.0	245.1	pg	-2	15	
Aroclor-1260	A	250.0	243.3	pg	-3	15	
Aroclor-1016	B	250.0	246.3	pg	-1	15	
Aroclor-1260	B	250.0	264.5	pg	6	15	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185408 PCBS Water: EPA 8082

Inst : GC22
Calnum : 256088718001
Units : pg

Name : ar1660
Date : 02-MAR-2006 21:02
X Axis : R

Reviewer: CW
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	061_009	256088718009	pcb10_2	02-MAR-2006 21:02	S2097
L2	061_010	256088718010	pcb25_5	02-MAR-2006 21:28	S2098
L3	061_011	256088718011	pcb100_20	02-MAR-2006 21:54	S2099
L4	061_012	256088718012	pcb250_50	02-MAR-2006 22:20	S2100
L5	061_013	256088718013	pcb500_100	02-MAR-2006 22:47	S2101
L6	061_014	256088718014	pcb750_150	02-MAR-2006 23:13	S2102

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aroclor-1016 Peak # 1	A	421.30	414.60	369.96	344.52	305.87	306.59	AVRG		0.00277		360.47	14	.99	20	
Aroclor-1016 Peak # 2	A	763.60	777.36	663.77	604.25	527.67	523.68	AVRG		0.00155		643.39	17	.99	20	
Aroclor-1016 Peak # 3	A	1066.2	1011.0	858.73	804.16	717.97	738.96	AVRG		0.00115		866.18	17	.99	20	
Aroclor-1016 Peak # 4	A	766.40	715.68	596.91	560.24	488.42	493.44	AVRG		0.00166		603.52	19	.99	20	
Aroclor-1016 Peak # 5	A	496.10	506.40	424.50	401.42	341.80	347.38	AVRG		0.00238		419.60	17	.99	20	
Aroclor-1260 Peak # 1	A	1411.7	1405.8	1114.5	1102.8	958.73	1027.2	AVRG		8.55E-4		1170.1	17	.99	20	
Aroclor-1260 Peak # 2	A	924.50	908.88	740.00	720.90	614.64	647.33	AVRG		0.00132		759.37	17	.99	20	
Aroclor-1260 Peak # 3	A	854.70	765.40	662.93	680.13	580.88	612.37	AVRG		0.00144		692.73	15	.99	20	
Aroclor-1260 Peak # 4	A	2064.3	2105.4	1677.9	1695.3	1520.3	1629.5	AVRG		5.61E-4		1782.1	14	.99	20	
Aroclor-1260 Peak # 5	A	1053.2	1083.4	878.12	868.16	753.42	803.62	AVRG		0.00110		906.65	15	.99	20	
TCMX	A	19933	19773	16836	16636	15555	15367	AVRG		5.76E-5		17350	12	.99	20	
Decachlorobiphenyl	A	16543	16382	12404	12709	11421	12375	AVRG		7.33E-5		13639	16	.99	20	
Aroclor-1016 Peak # 1	B	301.30	236.84	227.64	205.21	203.82	195.27	AVRG		0.00438		228.35	17	.99	20	
Aroclor-1016 Peak # 2	B	310.60	256.56	234.21	217.18	205.11	197.89	AVRG		0.00422		236.92	18	.99	20	
Aroclor-1016 Peak # 3	B	381.80	304.96	295.73	269.08	259.13	248.12	AVRG		0.00341		293.14	17	.99	20	
Aroclor-1016 Peak # 4	B	461.90	399.64	375.99	339.54	327.88	313.78	AVRG		0.00270		369.79	15	.99	20	
Aroclor-1016 Peak # 5	B	286.70	242.80	244.57	223.86	215.56	202.75	AVRG		0.00424		236.04	13	.99	20	
Aroclor-1260 Peak # 1	B	872.90	688.28	658.08	582.40	593.89	565.53	AVRG		0.00151		660.18	17	.99	20	
Aroclor-1260 Peak # 2	B	926.40	698.92	687.26	636.64	645.03	616.74	AVRG		0.00142		701.83	16	.99	20	
Aroclor-1260 Peak # 3	B	591.70	475.84	467.11	415.59	421.56	398.71	AVRG		0.00217		461.75	15	.99	20	
Aroclor-1260 Peak # 4	B	507.70	411.40	401.38	359.13	364.76	344.58	AVRG		0.00251		398.16	15	.99	20	
Aroclor-1260 Peak # 5	B	649.50	507.92	528.32	475.67	487.42	461.06	AVRG		0.00193		518.31	13	.99	20	
TCMX	B	15229	13075	11352	10325	10190	9735.7	AVRG		8.58E-5		11651	18	.99	20	
Decachlorobiphenyl	B	10285	7146.4	7252.6	6540.6	6895.1	6632.8	AVRG		1.34E-4		7458.7	19	.99	20	

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185408 PCBS Water
EPA 8082

Inst : GC22 Name : ar1660
Calnum : 256088718001 Cal Date: 02-MAR-2006

ICV 256088718017 (061_017 03-MAR-2006) stds: S2181

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Aroclor-1016	A	250.0	233.1	pg	-7	15	
Aroclor-1260	A	250.0	254.7	pg	2	15	
Aroclor-1016	B	250.0	226.9	pg	-9	15	
Aroclor-1260	B	250.0	245.2	pg	-2	15	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185408 PCBS Water: EPA 8082

Inst : GC22
Calnum : 256094285001
Units : pg

Name : ar2154
Date : 06-MAR-2006 20:00
X Axis : R

Reviewer: MCH
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	065_007	256094285007	ar2154	06-MAR-2006 20:00	S2479

Analyte	Ch	L1	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aroclor-1221 Peak # 1	A	112.47	AVRG		0.00889		112.47	0	.99	20	
Aroclor-1221 Peak # 2	A	191.40	AVRG		0.00522		191.40	0	.99	20	
Aroclor-1221 Peak # 3	A	118.28	AVRG		0.00845		118.28	0	.99	20	
Aroclor-1221 Peak # 4	A	489.26	AVRG		0.00204		489.26	0	.99	20	
Aroclor-1221 Peak # 5	A	68.104	AVRG		0.01468		68.104	0	.99	20	
Aroclor-1254 Peak # 1	A	558.96	AVRG		0.00179		558.96	0	.99	20	
Aroclor-1254 Peak # 2	A	751.14	AVRG		0.00133		751.14	0	.99	20	
Aroclor-1254 Peak # 3	A	606.46	AVRG		0.00165		606.46	0	.99	20	
Aroclor-1254 Peak # 4	A	1020.5	AVRG		9.80E-4		1020.5	0	.99	20	
Aroclor-1254 Peak # 5	A	844.88	AVRG		0.00118		844.88	0	.99	20	
Aroclor-1221 Peak # 1	B	80.836	AVRG		0.01237		80.836	0	.99	20	
Aroclor-1221 Peak # 2	B	128.79	AVRG		0.00776		128.79	0	.99	20	228
Aroclor-1221 Peak # 3	B	92.708	AVRG		0.01079		92.708	0	.99	20	
Aroclor-1221 Peak # 4	B	309.13	AVRG		0.00323		309.13	0	.99	20	
Aroclor-1221 Peak # 5	B	62.300	AVRG		0.01605		62.300	0	.99	20	
Aroclor-1254 Peak # 1	B	424.80	AVRG		0.00235		424.80	0	.99	20	
Aroclor-1254 Peak # 2	B	498.76	AVRG		0.00200		498.76	0	.99	20	
Aroclor-1254 Peak # 3	B	396.55	AVRG		0.00252		396.55	0	.99	20	
Aroclor-1254 Peak # 4	B	678.46	AVRG		0.00147		678.46	0	.99	20	
Aroclor-1254 Peak # 5	B	595.12	AVRG		0.00168		595.12	0	.99	20	

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION SUMMARY FOR 185408 PCBS Water
Curtis & Tompkins Laboratories

Analyte: Aroclor-1016

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	206103251004	12-MAR-2006 18:13	206080100001	24-FEB-2006			500.00	553.70	pg	11	15	
GC06	B	206103251004	12-MAR-2006 18:13	206080100001	24-FEB-2006			500.00	580.85	pg	**16**	15	c+ ***
GC06	A	206103251019	13-MAR-2006 01:05	206080100001	24-FEB-2006			250.00	283.37	pg	13	15	
GC06	B	206103251019	13-MAR-2006 01:05	206080100001	24-FEB-2006			250.00	300.50	pg	**20**	15	c+ ***

reported from A

AW 3/21/06

+=high bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 185408 PCBS Water
Curtis & Tompkins Laboratories

Analyte: Aroclor-1221

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC22	A	256104351005	13-MAR-2006 13:07	256094285001	06-MAR-2006			250.00	244.68	pg	-2	15	
GC22	B	256104351005	13-MAR-2006 13:07	256094285001	06-MAR-2006			250.00	263.84	pg	6	15	
GC22	A	256104351013	13-MAR-2006 21:09	256094285001	06-MAR-2006			250.00	228.68	pg	-9	15	
GC22	B	256104351013	13-MAR-2006 21:09	256094285001	06-MAR-2006			250.00	276.35	pg	11	15	

CONTINUING CALIBRATION SUMMARY FOR 185408 PCBS Water
Curtis & Tompkins Laboratories

Analyte: Aroclor-1260

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags	
GC06	A	206103251004	12-MAR-2006 18:13	206080100001	24-FEB-2006			500.00	579.90	pg	16	15	c+ ***	samples ND
GC06	B	206103251004	12-MAR-2006 18:13	206080100001	24-FEB-2006			500.00	623.16	pg	**25**	15	c+ ***	reported from A
GC06	A	206103251019	13-MAR-2006 01:05	206080100001	24-FEB-2006			250.00	285.26	pg	14	15		
GC06	B	206103251019	13-MAR-2006 01:05	206080100001	24-FEB-2006			250.00	299.57	pg	**20**	15	c+ ***	

CW 3/21/06

+=high bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 185408 PCBS Water
Curtis & Tompkins Laboratories

Analyte: TCMX

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	206103251004	12-MAR-2006 18:13	206080100001	24-FEB-2006	7369.0	9291.1	100.00	126.08	pg	26	15	c+
GC06	B	206103251004	12-MAR-2006 18:13	206080100001	24-FEB-2006	5045.8	7010.8	100.00	138.94	pg	**39**	15	c+
GC06	A	206103251019	13-MAR-2006 01:05	206080100001	24-FEB-2006	7369.0	9241.5	50.000	62.705	pg	25	15	c+
GC06	B	206103251019	13-MAR-2006 01:05	206080100001	24-FEB-2006	5045.8	6827.7	50.000	67.657	pg	**35**	15	c+
GC22	A	256104351002	13-MAR-2006 11:38	256088718001	02-MAR-2006	17350	16303	100.00	93.964	pg	-6	15	
GC22	B	256104351002	13-MAR-2006 11:38	256088718001	02-MAR-2006	11651	8904.9	100.00	76.428	pg	**-24**	15	c-
GC22	A	256104351011	13-MAR-2006 20:16	256088718001	02-MAR-2006	17350	17511	50.000	50.464	pg	1	15	
GC22	B	256104351011	13-MAR-2006 20:16	256088718001	02-MAR-2006	11651	11027	50.000	47.320	pg	-5	15	

+=high bias -=low bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 185408 PCBS Water
Curtis & Tompkins Laboratories

Analyte: Decachlorobiphenyl

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	206103251004	12-MAR-2006 18:13	206080100001	24-FEB-2006	7701.8	9021.3	100.00	117.13	pg	17	15	c+
GC06	B	206103251004	12-MAR-2006 18:13	206080100001	24-FEB-2006	4842.0	6439.7	100.00	133.00	pg	**33**	15	c+
GC06	A	206103251019	13-MAR-2006 01:05	206080100001	24-FEB-2006	7701.8	9041.1	50.000	58.695	pg	17	15	c+
GC06	B	206103251019	13-MAR-2006 01:05	206080100001	24-FEB-2006	4842.0	6502.4	50.000	67.145	pg	**34**	15	c+
GC22	A	256104351002	13-MAR-2006 11:38	256088718001	02-MAR-2006	13639	11922	100.00	87.415	pg	-13	15	
GC22	B	256104351002	13-MAR-2006 11:38	256088718001	02-MAR-2006	7458.7	7131.4	100.00	95.612	pg	-4	15	
GC22	A	256104351011	13-MAR-2006 20:16	256088718001	02-MAR-2006	13639	13642	50.000	50.013	pg	0	15	
GC22	B	256104351011	13-MAR-2006 20:16	256088718001	02-MAR-2006	7458.7	8998.5	50.000	60.322	pg	**21**	15	c+

+=high bias c=CCV

SEQUENCE SUMMARY FOR 185408 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206080100 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 24-FEB-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	055_001	X	hex			24-FEB-2006 15:00	1.0						
002	055_002	X	pcb500_100			24-FEB-2006 15:27	1.0					1	
003	055_003	CCV	pcb500_100			24-FEB-2006 15:55	1.0	1.0	2		1	1	
004	055_004	X	ccv			24-FEB-2006 17:17	1.0					1	
005	055_005	X	hex			24-FEB-2006 19:16	1.0						
006	055_006	X	hex			24-FEB-2006 19:43	1.0						
007	055_007	ICAL	pcb10_2			24-FEB-2006 20:11	1.0	1.0				2	
008	055_008	ICAL	pcb25_5			24-FEB-2006 20:38	1.0	1.0				3	
009	055_009	ICAL	pcb100_20			24-FEB-2006 21:06	1.0	1.0				4	
010	055_010	ICAL	pcb250_50			24-FEB-2006 21:33	1.0	1.0				5	
011	055_011	ICAL	pcb500_100			24-FEB-2006 22:01	1.0	1.0				6	
012	055_012	ICAL	pcb750_150			24-FEB-2006 22:28	1.0	1.0				7	
013	055_013	ICAL	pcb1000_200			24-FEB-2006 22:56	1.0	1.0				8	
014	055_014	X	hex			24-FEB-2006 23:23	1.0						
015	055_015	X	ultra_1660			24-FEB-2006 23:50	1.0					9	234
016	055_016	ICV	ultra_1660			25-FEB-2006 00:18	1.0	1.0			1	9	
017	055_017	X	hex			25-FEB-2006 00:45	1.0						
018	055_018	CCV	pcb500_100			25-FEB-2006 01:13	1.0					1	
019	055_019	X	ccv			25-FEB-2006 01:40	1.0					1	
020	055_020	ICAL	ar2154			25-FEB-2006 02:08	1.0	1.0				10	
021	055_021	ICAL	ar1268			25-FEB-2006 02:35	1.0	1.0				11	
022	055_022	X	hex			25-FEB-2006 03:03	1.0						
023	055_023	BLANK	QC329103	110719	Soil	25-FEB-2006 03:30	1.0	0.8418			1		
024	055_024	LCS	QC329104	110719	Soil	25-FEB-2006 03:58	1.0	0.8367			1		
025	055_025	MSS	184947-013	110719	Soil	25-FEB-2006 04:25	1.0	0.8426			1		
026	055_026	MS	QC329105	110719	Soil	25-FEB-2006 04:52	1.0	0.8331			1		
027	055_027	MSD	QC329106	110719	Soil	25-FEB-2006 05:20	1.0	0.8342			1		
028	055_028	MSS	184933-034	110493	Soil	25-FEB-2006 05:47	20.0						
029	055_029	SAMPLE	184933-043	110719	Soil	25-FEB-2006 06:15	1.0	0.8311			1		
030	055_030	SAMPLE	184933-044	110719	Soil	25-FEB-2006 06:42	1.0	0.8446	2		1		2:CL10BZ=291.336
031	055_031	SAMPLE	184933-045	110719	Soil	25-FEB-2006 07:10	1.0	0.8251			1		

Stds used: 1=S2101 2=S2097 3=S2098 4=S2099 5=S2770 6=S2771 7=S2102 8=S2103 9=S2181 10=S2665 11=S2638

SEQUENCE SUMMARY FOR 185408 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206080100 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 24-FEB-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	055_032	SAMPLE	184933-048	110719	Soil	25-FEB-2006 07:37	1.0	0.844			1		
033	055_033	X	hex			25-FEB-2006 08:05	1.0						
034	055_034	X	pcb250_50			25-FEB-2006 08:32	1.0					5	
035	055_035	CCV	pcb250_50			25-FEB-2006 09:00	1.0	1.0			1	5	
036	055_036	CCV	ar2154			25-FEB-2006 09:27	1.0	1.0	2		1	10	
037	055_037	CCV	ar1268			25-FEB-2006 09:55	1.0	1.0			1	11	
038	055_038	X	hex			25-FEB-2006 10:22	1.0						
039	055_039	SAMPLE	184933-049	110719	Soil	25-FEB-2006 10:50	1.0	0.8432			1		
040	055_040	SAMPLE	184933-050	110719	Soil	25-FEB-2006 11:17	1.0	0.827			1		
041	055_041	SAMPLE	184933-051	110719	Soil	25-FEB-2006 11:45	1.0	0.8443			1		
042	055_042	SAMPLE	184933-052	110719	Soil	25-FEB-2006 12:12	1.0	0.8229			1		
043	055_043	SAMPLE	184933-053	110719	Soil	25-FEB-2006 12:40	1.0	0.8412			1		
044	055_044	SAMPLE	184947-001	110719	Soil	25-FEB-2006 13:07	1.0	0.8403	2	3	1		
045	055_045	SAMPLE	184947-002	110719	Soil	25-FEB-2006 13:35	1.0						
046	055_046	SAMPLE	184947-003	110719	Soil	25-FEB-2006 14:02	1.0						235
047	055_047	SAMPLE	184947-004	110719	Soil	25-FEB-2006 14:30	1.0						
048	055_048	SAMPLE	184947-005	110719	Soil	25-FEB-2006 14:57	1.0						
049	055_049	X	hex			25-FEB-2006 15:25	1.0						
050	055_050	CCV	pcb100_20			25-FEB-2006 15:52	1.0	1.0			1	4	
051	055_051	X	pcb100_20			25-FEB-2006 16:20	1.0					4	
052	055_052	CCV	ar2154			25-FEB-2006 16:47	1.0	1.0	2		1	10	
053	055_053	CCV	ar1268			25-FEB-2006 17:15	1.0	1.0			1	11	
054	055_054	X	hex			25-FEB-2006 17:42	1.0						
055	055_055	BLANK	QC329111	110722	Soil	25-FEB-2006 18:10	1.0	0.8446			1		
056	055_056	LCS	QC329112	110722	Soil	25-FEB-2006 18:38	1.0	0.8446			1		
057	055_057	SAMPLE	184947-006	110719	Soil	25-FEB-2006 19:05	1.0						
058	055_058	SAMPLE	184947-007	110719	Soil	25-FEB-2006 19:33	1.0	0.8426			1		
059	055_059	SAMPLE	184947-008	110719	Soil	25-FEB-2006 20:00	1.0						
060	055_060	SAMPLE	184947-009	110719	Soil	25-FEB-2006 20:28	1.0	0.8303			1		
061	055_061	SAMPLE	184947-010	110719	Soil	25-FEB-2006 20:55	1.0	0.8409			1		
062	055_062	MSS	184955-013	110722	Soil	25-FEB-2006 21:23	1.0	0.8401			1		

Stds used: 1=S2101 2=S2097 3=S2098 4=S2099 5=S2770 6=S2771 7=S2102 8=S2103 9=S2181 10=S2665 11=S2638

SEQUENCE SUMMARY FOR 185408 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206080100 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 24-FEB-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
063	055_063	MS	QC329113	110722	Soil	25-FEB-2006 21:50	1.0	0.8311			1		
064	055_064	MSD	QC329114	110722	Soil	25-FEB-2006 22:18	1.0	0.8378			1		
065	055_065	X	hex			25-FEB-2006 22:45	1.0						
066	055_066	CCV	pcb500_100			25-FEB-2006 23:13	1.0	1.0			1	1	
067	055_067	X	ccv			25-FEB-2006 23:40	1.0					1	
068	055_068	CCV	ar2154			26-FEB-2006 00:08	1.0	1.0			1	10	
069	055_069	CCV	ar1268			26-FEB-2006 00:35	1.0	1.0			1	11	
070	055_070	X	hex			26-FEB-2006 01:03	1.0						
071	055_071	SAMPLE	184955-001	110722	Soil	26-FEB-2006 01:31	1.0	0.8364			1		
072	055_072	SAMPLE	184955-002	110722	Soil	26-FEB-2006 01:58	1.0	0.8375			1		
073	055_073	SAMPLE	184955-003	110722	Soil	26-FEB-2006 02:26	1.0	0.8381			1		
074	055_074	SAMPLE	184955-004	110722	Soil	26-FEB-2006 02:53	1.0	0.8367			1		
075	055_075	SAMPLE	184955-005	110722	Soil	26-FEB-2006 03:21	1.0	0.8398			1		
076	055_076	SAMPLE	184955-006	110722	Soil	26-FEB-2006 03:48	1.0	0.8435			1		
077	055_077	SAMPLE	184955-007	110722	Soil	26-FEB-2006 04:16	1.0	0.8423			1		236
078	055_078	SAMPLE	184955-008	110722	Soil	26-FEB-2006 04:43	1.0	0.8401			1		
079	055_079	SAMPLE	184955-009	110722	Soil	26-FEB-2006 05:11	1.0	0.8384			1		
080	055_080	SAMPLE	184955-010	110722	Soil	26-FEB-2006 05:38	1.0	0.8446			1		
081	055_081	X	hex			26-FEB-2006 06:06	1.0						
082	055_082	CCV	pcb250_50			26-FEB-2006 06:33	1.0	1.0			1	5	
083	055_083	X	ccv			26-FEB-2006 07:01	1.0					5	
084	055_084	CCV	ar2154			26-FEB-2006 07:28	1.0	1.0			1	10	
085	055_085	CCV	ar1268			26-FEB-2006 07:56	1.0	1.0			1	11	
086	055_086	X	hex			26-FEB-2006 08:23	1.0						
087	055_087	SAMPLE	184955-011	110722	Soil	26-FEB-2006 08:51	1.0						
088	055_088	SAMPLE	184955-012	110722	Soil	26-FEB-2006 09:18	1.0	0.8389			1		
089	055_089	SAMPLE	184955-014	110722	Soil	26-FEB-2006 09:46	1.0						
090	055_090	SAMPLE	185020-010	110722	Soil	26-FEB-2006 10:13	1.0	0.8314			1		
091	055_091	SAMPLE	185099-003	110722	Soil	26-FEB-2006 10:41	1.0	0.8292			1		
092	055_092	SAMPLE	185100-001	110722	Soil	26-FEB-2006 11:08	1.0	0.8401			1		
093	055_093	SAMPLE	185108-001	110722	Soil	26-FEB-2006 11:36	1.0	0.827		2	1		

Stds used: 1=S2101 2=S2097 3=S2098 4=S2099 5=S2770 6=S2771 7=S2102 8=S2103 9=S2181 10=S2665 11=S2638

SEQUENCE SUMMARY FOR 185408 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206080100 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 24-FEB-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
094	055_094	SAMPLE	185113-001	110722	Soil	26-FEB-2006 12:04	1.0	0.8457	1		
095	055_095	SAMPLE	185113-002	110722	Soil	26-FEB-2006 12:31	1.0	0.8216	1		
096	055_096	X	hex			26-FEB-2006 12:59	1.0				
097	055_097	X	pcb100_20			26-FEB-2006 13:26	1.0			4	
098	055_098	CCV	pcb100_20			26-FEB-2006 13:54	1.0	1.0	1	4	
099	055_099	CCV	ar2154			26-FEB-2006 14:21	1.0	1.0	1	10	
100	055_100	CCV	ar1268			26-FEB-2006 14:49	1.0	1.0	1	11	
101	055_101	X	hex			26-FEB-2006 15:16	1.0				
102	055_102	BLANK	QC329299	110767	Oil	26-FEB-2006 18:12	1.0	50.0	1		
103	055_103	BS	QC329300	110767	Oil	26-FEB-2006 18:39	1.0	50.0	1		
104	055_104	BSD	QC329301	110767	Oil	26-FEB-2006 19:07	1.0	50.0	1		
105	055_105	SAMPLE	185156-001	110767	Oil	26-FEB-2006 19:34	1.0	50.03	1		
106	055_106	X	hex			26-FEB-2006 20:02	1.0				
107	055_107	X	pcb500_100			26-FEB-2006 20:29	1.0			1	
108	055_108	CCV	pcb500_100			26-FEB-2006 20:57	1.0	1.0	1	1	
109	055_109	CCV	ar2154			26-FEB-2006 21:24	1.0	1.0	1	10	
110	055_110	X	ccv			26-FEB-2006 21:51	1.0			11	
111	055_111	X	hex			26-FEB-2006 22:19	1.0				

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Stds used: 1=S2101 2=S2097 3=S2098 4=S2099 5=S2770 6=S2771 7=S2102 8=S2103 9=S2181 10=S2665 11=S2638

SEQUENCE SUMMARY FOR 185408 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 256088718 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 02-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6
Analytical Method: EPA 8082 SOP Version: 8082_congeners_rv0

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	061_001	X	primer			02-MAR-2006 14:38	1.0						
002	061_002	X	primer			02-MAR-2006 15:04	1.0						
003	061_003	X	primer			02-MAR-2006 15:31	1.0						
004	061_004	X	primer			02-MAR-2006 15:57	1.0						
005	061_005	X	primer			02-MAR-2006 16:23	1.0						
006	061_006	X	primer			02-MAR-2006 16:49	1.0						
007	061_007	X	hex			02-MAR-2006 20:09	1.0						
008	061_008	X	hex			02-MAR-2006 20:35	1.0						
009	061_009	ICAL	pcb10_2			02-MAR-2006 21:02	1.0					1	
010	061_010	ICAL	pcb25_5			02-MAR-2006 21:28	1.0					2	
011	061_011	ICAL	pcb100_20			02-MAR-2006 21:54	1.0					3	
012	061_012	ICAL	pcb250_50			02-MAR-2006 22:20	1.0					4	
013	061_013	ICAL	pcb500_100			02-MAR-2006 22:47	1.0					5	
014	061_014	ICAL	pcb750_150			02-MAR-2006 23:13	1.0					6	238
015	061_015	ICAL	pcb1000_200			02-MAR-2006 23:39	1.0					7	
016	061_016	X	hex			03-MAR-2006 00:06	1.0						
017	061_017	ICV	ultra_1660			03-MAR-2006 00:32	1.0		1			8	
018	061_018	X	icv			03-MAR-2006 00:58	1.0					8	
019	061_019	X	hex			03-MAR-2006 01:25	1.0						

Stds used: 1=S2097 2=S2098 3=S2099 4=S2100 5=S2101 6=S2102 7=S2103 8=S2181

SEQUENCE SUMMARY FOR 185408 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 256094285 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 06-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	065_001	X	hex			06-MAR-2006 11:25	1.0						
002	065_002	X	ccv			06-MAR-2006 11:51	1.0					1	
003	065_003	X	pcb500_100			06-MAR-2006 12:17	1.0					1	
004	065_004	X	ccv			06-MAR-2006 12:43	1.0					2	
005	065_005	X	ccv			06-MAR-2006 13:10	1.0					2	
006	065_006	CCV	pcb500_100			06-MAR-2006 14:44	1.0	1.0			1	1	
007	065_007	ICAL	ar2154			06-MAR-2006 20:00	1.0	1.0				2	
008	065_008	X	ccv			06-MAR-2006 20:27	1.0					2	
009	065_009	X	hex			06-MAR-2006 20:53	1.0						
010	065_010	BLANK	QC330147	110982	Soil	06-MAR-2006 21:19	1.0	0.6667			1		
011	065_011	LCS	QC330148	110982	Soil	06-MAR-2006 21:45	1.0	0.6667			1		
012	065_012	SAMPLE	185130-001	110982	Soil	06-MAR-2006 22:12	1.0	0.6761		1	1		
013	065_013	SAMPLE	185130-002	110982	Soil	06-MAR-2006 22:38	1.0	0.6636			1		
014	065_014	SAMPLE	185130-003	110982	Soil	06-MAR-2006 23:04	1.0	0.6711			1		
015	065_015	SAMPLE	185131-001	110982	Soil	06-MAR-2006 23:30	1.0	0.6702			1		
016	065_016	SAMPLE	185131-002	110982	Soil	06-MAR-2006 23:56	1.0	0.6645	10		1		12:PCB126=5217.78
017	065_017	MSS	185171-001	110982	Soil	07-MAR-2006 00:23	1.0	0.6716		1	1		
018	065_018	MS	QC330149	110982	Soil	07-MAR-2006 00:49	1.0	0.6658		1	1		
019	065_019	MSD	QC330150	110982	Soil	07-MAR-2006 01:15	1.0	0.6662		2	1		
020	065_020	X	hex			07-MAR-2006 01:41	1.0						
021	065_021	CCV	pcb250_50			07-MAR-2006 02:08	1.0	1.0			1	3	
022	065_022	X	ccv			07-MAR-2006 02:34	1.0					3	
023	065_023	CCV	ar2154			07-MAR-2006 03:00	1.0	1.0			1	2	
024	065_024	X	ccv			07-MAR-2006 03:26	1.0					2	
025	065_025	X	hex			07-MAR-2006 03:53	1.0						
026	065_026	SAMPLE	185131-003	110982	Soil	07-MAR-2006 04:19	1.0	0.6752			1		
027	065_027	SAMPLE	185132-001	110982	Soil	07-MAR-2006 04:45	1.0	0.6566	1		1		
028	065_028	SAMPLE	185132-002	110982	Soil	07-MAR-2006 05:11	1.0	0.6653			1		
029	065_029	SAMPLE	185132-003	110982	Soil	07-MAR-2006 05:38	1.0	0.668			1		
030	065_030	SAMPLE	185082-001	110928	Soil	07-MAR-2006 06:04	1.0						
031	065_031	SAMPLE	185082-002	110928	Soil	07-MAR-2006 06:30	1.0						

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Stds used: 1=S2101 2=S2479 3=S2100 4=S2099

SEQUENCE SUMMARY FOR 185408 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 256094285 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 06-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	065_032	SAMPLE	185082-003	110928	Soil	07-MAR-2006 06:56	1.0	0.6748			1		
033	065_033	SAMPLE	185082-004	110928	Soil	07-MAR-2006 07:23	1.0	0.657			1		
034	065_034	SAMPLE	185082-005	110928	Soil	07-MAR-2006 07:49	1.0						
035	065_035	SAMPLE	185082-006	110928	Soil	07-MAR-2006 08:15	1.0	0.6575	1		1		
036	065_036	X	hex			07-MAR-2006 08:41	1.0						
037	065_037	CCV	pcb100_20			07-MAR-2006 09:08	1.0	1.0	1		1	4	
038	065_038	X	ccv			07-MAR-2006 09:34	1.0					4	
039	065_039	CCV	ar2154			07-MAR-2006 10:00	1.0	1.0			1	2	
040	065_040	X	ccv			07-MAR-2006 10:26	1.0					2	
041	065_041	X	hex			07-MAR-2006 10:52	1.0						
042	065_042	SAMPLE	185082-007	110928	Soil	07-MAR-2006 11:19	1.0						
043	065_043	SAMPLE	185082-008	110928	Soil	07-MAR-2006 11:45	1.0	0.6734			1		
044	065_044	SAMPLE	185082-009	110928	Soil	07-MAR-2006 12:11	1.0	0.6667			1		
045	065_045	SAMPLE	185082-010	110928	Soil	07-MAR-2006 12:37	1.0						
046	065_046	SAMPLE	185082-011	110928	Soil	07-MAR-2006 13:03	1.0	0.6698	1		1		240
047	065_047	SAMPLE	185082-012	110928	Soil	07-MAR-2006 13:29	1.0						
048	065_048	SAMPLE	185082-013	110928	Soil	07-MAR-2006 13:55	1.0	0.6618			1		
049	065_049	SAMPLE	185082-014	110928	Soil	07-MAR-2006 14:22	1.0	0.668			1		
050	065_050	X	hex			07-MAR-2006 14:48	1.0						
051	065_051	X	pcb500_100			07-MAR-2006 15:14	1.0	1.0	1		1	1	
052	065_052	CCV	pcb500_100			07-MAR-2006 15:40	1.0	1.0			1	1	
053	065_053	CCV	ar2154			07-MAR-2006 16:07	1.0	1.0			1	2	
054	065_054	X	ccv			07-MAR-2006 16:33	1.0					2	
055	065_055	X	hex			07-MAR-2006 16:59	1.0						

Stds used: 1=S2101 2=S2479 3=S2100 4=S2099

SEQUENCE SUMMARY FOR 185408 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206103251 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 12-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	071_001	X	hex			12-MAR-2006 16:51	1.0						
002	071_002	X	pcb500_100			12-MAR-2006 17:18	1.0	1.0	3		1	1	
003	071_003	X	pcb500_100			12-MAR-2006 17:46	1.0	1.0	3		1	1	
004	071_004	CCV	pcb500_100			12-MAR-2006 18:13	1.0	1.0	3		1	1	
005	071_005	X	pcb500_100			12-MAR-2006 18:41	1.0	1.0	4		1	1	
006	071_006	X	ccv			12-MAR-2006 19:08	1.0					2	
007	071_007	X	ccv			12-MAR-2006 19:36	1.0					2	
008	071_008	X	hex			12-MAR-2006 20:03	1.0						
009	071_009	BLANK	QC331037	111200	Water	12-MAR-2006 20:31	1.0	0.025			1		
010	071_010	LCS	QC331038	111200	Water	12-MAR-2006 20:58	1.0						
011	071_011	SAMPLE	185460-001	111200	Water	12-MAR-2006 21:25	1.0	0.02381			1		
012	071_012	MSS	185408-008	111200	Water	12-MAR-2006 21:53	1.0	0.02381			1		
013	071_013	SAMPLE	185408-009	111200	Water	12-MAR-2006 22:20	1.0	0.02381			1		
014	071_014	SAMPLE	185440-001	111200	Water	12-MAR-2006 22:48	1.0	0.02381			1		
015	071_015	SAMPLE	185443-001	111200	Water	12-MAR-2006 23:15	1.0	0.025		1	1		241
016	071_016	MS	QC331039	111200	Water	12-MAR-2006 23:43	1.0						
017	071_017	MSD	QC331040	111200	Water	13-MAR-2006 00:10	1.0						
018	071_018	X	hex			13-MAR-2006 00:38	1.0						
019	071_019	CCV	pcb250_50			13-MAR-2006 01:05	1.0	1.0	2		1	3	
020	071_020	X	ccv			13-MAR-2006 01:33	1.0	1.0	4		1	3	
021	071_021	X	ccv			13-MAR-2006 02:00	1.0					2	
022	071_022	X	ccv			13-MAR-2006 02:27	1.0					2	
023	071_023	X	hex			13-MAR-2006 02:55	1.0						

Stds used: 1=S2101 2=S2665 3=S2770

SEQUENCE SUMMARY FOR 185408 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 256104351 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 13-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	072_001	X	hex			13-MAR-2006 11:11	1.0						
002	072_002	CCV	pcb500_100			13-MAR-2006 11:38	1.0	1.0	1		1	1	
003	072_003	X	pcb500_100			13-MAR-2006 12:04	1.0					1	
004	072_004	X	ar2154			13-MAR-2006 12:41	1.0					2	
005	072_005	CCV	ar2154			13-MAR-2006 13:07	1.0	1.0			1	2	
006	072_006	LCS	QC331038	111200	Water	13-MAR-2006 13:33	1.0	0.025			1		
007	072_007	MS	QC331039	111200	Water	13-MAR-2006 14:00	1.0	0.02381			1		
008	072_008	MSD	QC331040	111200	Water	13-MAR-2006 14:26	1.0	0.02381			1		
009	072_009	X	hex			13-MAR-2006 19:24	1.0						
010	072_010	X	pcb250_50			13-MAR-2006 19:50	1.0					3	
011	072_011	CCV	pcb250_50			13-MAR-2006 20:16	1.0	1.0			1	3	
012	072_012	X	ccv			13-MAR-2006 20:43	1.0					4	
013	072_013	CCV	ar2154			13-MAR-2006 21:09	1.0	1.0			1	4	
014	072_014	X	hex			13-MAR-2006 21:35	1.0						
015	072_015	X	hex			13-MAR-2006 22:02	1.0						242
016	072_016	ICAL	cong_1			13-MAR-2006 22:44	1.0					5	
017	072_017	ICAL	cong_2			13-MAR-2006 23:27	1.0					6	
018	072_018	ICAL	cong_5			14-MAR-2006 00:10	1.0					7	
019	072_019	ICAL	cong_10			14-MAR-2006 00:53	1.0					8	
020	072_020	ICAL	cong_25			14-MAR-2006 01:36	1.0					9	
021	072_021	ICAL	cong_50			14-MAR-2006 02:19	1.0					10	
022	072_022	ICAL	cong_100			14-MAR-2006 03:02	1.0					11	
023	072_023	X	hex			14-MAR-2006 03:44	1.0						
024	072_024	ICV	cong_25			14-MAR-2006 04:27	1.0					12	
025	072_025	X	icv			14-MAR-2006 05:10	1.0					12	
026	072_026	X	hex			14-MAR-2006 05:53	1.0						

Stds used: 1=S2101 2=S2665 3=S2100 4=S2479 5=S2077 6=S2078 7=S2079 8=S2080 9=S2081 10=S2082 11=S2083 12=S1819

REPORTING SUMMARY FOR 185408 PCBS Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185408-008	Aroclor-1016	GC06	A	03/12/06 21:53
185408-008	Aroclor-1221	GC06	A	03/12/06 21:53
185408-008	Aroclor-1232	GC06	A	03/12/06 21:53
185408-008	Aroclor-1242	GC06	A	03/12/06 21:53
185408-008	Aroclor-1248	GC06	A	03/12/06 21:53
185408-008	Aroclor-1254	GC06	A	03/12/06 21:53
185408-008	Aroclor-1260	GC06	A	03/12/06 21:53
185408-008	TCMX	GC06	A	03/12/06 21:53
185408-008	Decachlorobiphenyl	GC06	A	03/12/06 21:53
185408-009	Aroclor-1016	GC06	A	03/12/06 22:20
185408-009	Aroclor-1221	GC06	A	03/12/06 22:20
185408-009	Aroclor-1232	GC06	A	03/12/06 22:20
185408-009	Aroclor-1242	GC06	A	03/12/06 22:20
185408-009	Aroclor-1248	GC06	A	03/12/06 22:20
185408-009	Aroclor-1254	GC06	A	03/12/06 22:20
185408-009	Aroclor-1260	GC06	A	03/12/06 22:20
185408-009	TCMX	GC06	A	03/12/06 22:20
185408-009	Decachlorobiphenyl	GC06	A	03/12/06 22:20
QC331037	Aroclor-1016	GC06	A	03/12/06 20:31
QC331037	Aroclor-1221	GC06	A	03/12/06 20:31
QC331037	Aroclor-1232	GC06	A	03/12/06 20:31
QC331037	Aroclor-1242	GC06	A	03/12/06 20:31
QC331037	Aroclor-1248	GC06	A	03/12/06 20:31
QC331037	Aroclor-1254	GC06	A	03/12/06 20:31
QC331037	Aroclor-1260	GC06	A	03/12/06 20:31
QC331037	TCMX	GC06	A	03/12/06 20:31
QC331037	Decachlorobiphenyl	GC06	A	03/12/06 20:31
QC331038	Aroclor-1221	GC22	A	03/13/06 13:33
QC331038	TCMX	GC22	A	03/13/06 13:33
QC331038	Decachlorobiphenyl	GC22	A	03/13/06 13:33
QC331039	Aroclor-1221	GC22	A	03/13/06 14:00
QC331039	TCMX	GC22	A	03/13/06 14:00
QC331039	Decachlorobiphenyl	GC22	A	03/13/06 14:00
QC331040	Aroclor-1221	GC22	A	03/13/06 14:26
QC331040	TCMX	GC22	A	03/13/06 14:26
QC331040	Decachlorobiphenyl	GC22	A	03/13/06 14:26

Curtis & Tompkins Laboratories Sample Preparation Summary 11-MAR-2006 11:43

Batch Number : 111200
Date Extracted: 10-MAR-2006
Extracted by : Sandra Felipe Luna
Prep Method : 3520C

Analysis : PCB
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2719B
Spike #2 ID : S2797A
Spike #3 ID :
SOP Version : PCB_w_rv7

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185408-008			Treadwell & Rollo	Water	1050	mL	25	0.023810	1	6	.05	0		PCB	3665A	mss
185408-009			Treadwell & Rollo	Water	1050	mL	25	0.023810	1	6	.05	0		PCB	3665A	
185440-001			Golder Associates	Water	1050	mL	25	0.023810	1	6	.05	0		PCB	3665A	
185443-001			CH2M Hill Constructors Inc.	Water	1000	mL	25	0.025000	1	7	.05	0		PCB	3665A	
185460-001			Weston Solutions	Water	1050	mL	25	0.023810	1	6	.05	0		PCB	3665A	
QC331037	BLANK			Water	1000	mL	25	0.025000	1		.05	0		PCB	3665A	
QC331038	LCS			Water	1000	mL	25	0.025000	1		.05	.05		PCB	3665A	
QC331039	MS	of 185408-008		Water	1050	mL	25	0.023810	1	6	.05	.05		PCB	3665A	
QC331040	MSD	of 185408-008		Water	1050	mL	25	0.023810	1	6	.05	.05		PCB	3665A	

Prep Chemist: JOM for SFL Reviewed By: [illegible] Date: 11-MAR-06

Relinquished By: [illegible] Received By: Jennifer [illegible] Date: 3/13/06

Curtis & Tompkins, Ltd

PCB WATER PREP LOG

LIMS Batch No: 111200
LIMS Analysis: PCB
Extracted by: SFL
Date Extracted: 03/10/06

Extraction Method:
- ☐ EPA 3510c Sep. Funnel
- ☒ EPA 3520c Continuous L/L
- ☐ Other _____

BK 2231
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Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Comments
185443-001 E	1000	7	25.0	
185408-008AP	1050	6		MS
↓ -009 L	↓	↓	↓	
185470-081 A	↓	↓	↓	
MB QC 377/037	1000	NA		
LCS 8	↓	↓		
MS A09	1050	6		185408-008
MSD ↓ AN40	↓	↓		↓
185460-001A	1050	↓	↓	X

KR 11-MAR-06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.05 mL of surrogate solution was added to all samples	527198	SFL 3/10/06
0.05 mL of spike solution AKI221 was added to all spikes	527974	↓
☒ Samples were continuously extracted with about 450 mL CH_2Cl_2	EM45342	↓
Extraction Start Time:	1215 / * 1045	↓
Extraction End Time:	0620 / 1050	3/10/06 KR
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	↓
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EMAS118532	↓
Concentrated to volumes noted above after 2x exchange w/ Hexane lot#	CP890	↓
EPA 3665A Clean-up: Vortexed w/ 10mL H_2SO_4 lot #	JTB A49034	↓
Centrifuged for 1min; 10mL transferred to labelled vial	✓	↓

3/10/06
Extraction Chemist Date

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Contined from Page ___
Continued on Page ___

11-MAR-06
Reviewed by Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8082 Water
As of 04/05/06

Analyte	Units	GC06 A	GC06 B	GC22 A	GC22 B	GC25 A	GC25 B
Aroclor-1016	ug/L	0.054	0.054	0.058	0.029	0.11	0.12
Aroclor-1221	ug/L	0.31	0.29	0.41	0.33	0.37	0.63
Aroclor-1232	ug/L	0.11	0.088	0.19	0.34	0.16	0.087
Aroclor-1242	ug/L	0.15	0.16	0.24	0.22	0.14	0.15
Aroclor-1248	ug/L	0.30	0.34	0.097	0.061	0.038	0.051
Aroclor-1254	ug/L	0.086	0.11	0.11	0.14	0.12	0.13
Aroclor-1260	ug/L	0.079	0.14	0.059	0.037	0.097	0.12

POLYAROMATIC HYDROCARBONS

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	600GW106	Batch#:	111260
Lab ID:	185408-001	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Prepared:	03/13/06
Diln Fac:	1.000	Analyzed:	03/16/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	92	65-135
1-Methylnaphthalene (F)	85	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	600GW105	Batch#:	111260
Lab ID:	185408-003	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Prepared:	03/13/06
Diln Fac:	1.000	Analyzed:	03/16/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	95	65-135
1-Methylnaphthalene (F)	88	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	DAESP03	Batch#:	111260
Lab ID:	185408-008	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Prepared:	03/13/06
Diln Fac:	1.000	Analyzed:	03/16/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.98	
Acenaphthylene	ND	2.0	
Acenaphthene	ND	0.98	
Fluorene	ND	0.98	
Phenanthrene	ND	0.49	
Anthracene	ND	0.49	0.008
Fluoranthene	ND	0.39	0.02
Pyrene	ND	0.20	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	90	65-135
1-Methylnaphthalene (F)	84	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	DUP0308063A	Batch#:	111260
Lab ID:	185408-009	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Prepared:	03/13/06
Diln Fac:	1.000	Analyzed:	03/16/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.97	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.97	
Fluorene	ND	0.97	
Phenanthrene	ND	0.49	
Anthracene	ND	0.49	0.008
Fluoranthene	ND	0.39	0.02
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	96	65-135
1-Methylnaphthalene (F)	89	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331305	Batch#:	111260
Matrix:	Water	Prepared:	03/13/06
Units:	ug/L	Analyzed:	03/15/06

Analyte	Result	RL	MDL
Naphthalene	ND	1.0	
Acenaphthylene	ND	2.0	
Acenaphthene	ND	1.0	
Fluorene	ND	1.0	
Phenanthrene	ND	0.50	
Anthracene	ND	0.50	0.008
Fluoranthene	ND	0.40	0.02
Pyrene	ND	0.20	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	93	65-135
1-Methylnaphthalene (F)	86	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331306	Batch#:	111260
Matrix:	Water	Prepared:	03/13/06
Units:	ug/L	Analyzed:	03/15/06

Analyte	Spiked	Result	%REC	Limits
Naphthalene	10.00	9.226	92	50-135
Fluorene	2.000	1.927	96	65-135
Pyrene	1.000	0.8919	89	65-135
Benzo(a)pyrene	1.000	0.8984	90	65-135

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	93	65-135
1-Methylnaphthalene (F)	86	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	DAESP03	Batch#:	111260
MSS Lab ID:	185408-008	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Prepared:	03/13/06
Diln Fac:	1.000	Analyzed:	03/16/06

Type: MS Lab ID: QC331307

Analyte	MSS Result	Spiked	Result	%REC	Limits
Naphthalene	<0.07094	9.804	8.756	89	50-135
Fluorene	<0.01512	1.961	1.890	96	65-135
Pyrene	<0.007337	0.9804	0.8130	83	65-135
Benzo(a)pyrene	<0.007689	0.9804	0.4616	47 *	65-135

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	93	65-135
1-Methylnaphthalene (F)	86	65-135

Type: MSD Lab ID: QC331308

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Naphthalene	9.804	9.245	94	50-135	5	35
Fluorene	1.961	1.950	99	65-135	3	35
Pyrene	0.9804	0.8203	84	65-135	1	35
Benzo(a)pyrene	0.9804	0.4511	46 *	65-135	2	35

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	97	65-135
1-Methylnaphthalene (F)	89	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Reviewed By: Mar 11/15/05
Calnum: 295454249001 Name: Type: (normal) Date: 11-NOV-2005 13:27 Inj Vol (uL): 10

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	31500006	295454249006		11-NOV-2005 13:27	S1620
2	31500007	295454249007		11-NOV-2005 13:58	S1619
3	31500008	295454249008		11-NOV-2005 14:30	S1618
4	31500009	295454249009		11-NOV-2005 15:02	S1617
5	31500010	295454249010		11-NOV-2005 15:33	S1616
6	31500011	295454249011		11-NOV-2005 16:05	S1615
7	31500012	295454249012		11-NOV-2005 16:36	S1614

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Naphthalene	1	0.0130	0.0130	0.0130	0.0132	0.0131	0.0129	0.0130	LINR	R	-24.7145	77.11807		ug/L	0.0130	1.000	0.99	20	
Acenaphthylene	1	0.0092	0.0091	0.0093	0.0095	0.0094	0.0092	0.0091	LINR	R	-214.441	109.4250		ug/L	0.0093	1.000	0.99	20	
2-Methylnaphthalene	1	0.0111	0.0112	0.0116	0.0117	0.0116	0.0114		LINR	R	-39.3909	87.29779		ug/L	0.0114	1.000	0.99	20	
Acenaphthene	1	0.0049	0.0049	0.0051	0.0052	0.0051	0.0050	0.0050	LINR	R	-85.6094	200.3504		ug/L	0.0050	1.000	0.99	20	
Fluorene	1	0.0623	0.0618	0.0631	0.0639	0.0633	0.0627	0.0629	LINR	R	-2.86348	15.90618		ug/L	0.0629	1.000	0.99	20	
Phenanthrene	1	0.1801	0.1766	0.1803	0.1826	0.1801	0.1784	0.1795	LINR	R	-1.30450	5.578705		ug/L	0.1797	1.000	0.99	20	
Anthracene	1	0.4031	0.4032	0.4080	0.4134	0.4084	0.4043	0.4050	LINR	R	-3.45329	2.471590		ug/L	0.4065	1.000	0.99	20	
Fluoranthene	1	0.0405	0.0401	0.0407	0.0416	0.0411	0.0407	0.0412	LINR	R	4.761168	24.32600		ug/L	0.0408	1.000	0.99	20	
Pyrene	1	0.0324	0.0319	0.0332	0.0334	0.0330	0.0331	0.0336	LINR	R	8.560996	29.78349		ug/L	0.0329	1.000	0.99	20	
Benzo(a)anthracene	1	0.0846	0.0904	0.0906	0.0917	0.0910	0.0903	0.0918	LINR	R	6.163122	10.91202		ug/L	0.0901	1.000	0.99	20	
Chrysene	1	0.1299	0.1298	0.1319	0.1351	0.1332	0.1321	0.1335	LINR	R	2.645243	7.498652		ug/L	0.1322	1.000	0.99	20	
Benzo(b)fluoranthene	1	0.0989	0.1025	0.1054	0.1076	0.1069	0.1059	0.1068	LINR	R	5.371647	9.373286		ug/L	0.1049	1.000	0.99	20	
Benzo(k)fluoranthene	1	0.0806	0.0758	0.0785	0.0804	0.0803	0.0803	0.0814	LINR	R	9.054523	12.29617		ug/L	0.0796	1.000	0.99	20	
Benzo(a)pyrene	1	0.0781	0.0812	0.0842	0.0867	0.0863	0.0861	0.0870	LINR	R	8.120996	11.49137		ug/L	0.0842	1.000	0.99	20	
Dibenz(a,h)anthracene	1	0.0174	0.0209	0.0203	0.0209	0.0211	0.0213	0.0216	LINR	R	28.94182	46.32017		ug/L	0.0205	1.000	0.99	20	
Benzo(g,h,i)perylene	1	0.0332	0.0346	0.0347	0.0354	0.0353	0.0353	0.0357	LINR	R	17.32595	27.99268		ug/L	0.0349	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	1	0.0843	0.0838	0.0916	0.0948	0.0947	0.0946	0.0953	LINR	R	8.706803	10.48603		ug/L	0.0913	1.000	0.99	20	
1-Methylnaphthalene (UV)	1	0.0084	0.0085	0.0086	0.0086	0.0085	0.0084	0.0084	LINR	R	-262.664	119.1280		ug/L	0.0085	1.000	0.99	20	
Acenaphthylene	2	0.0273	0.0273	0.0279	0.0282	0.0280	0.0277	0.0279	LINR	R	7.541521	35.87497		ug/L	0.0277	1.000	0.99	20	

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Curves: LINR: Linear regression

Instrument amount = a0 + response * a1 + response^2 * a2

gm 14 NOV 2005

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Reviewed By:
Calnum: 295454249001 Name: Type: (normal) Date: 11-NOV-2005 13:27 Inj Vol (uL): 10

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
1-Methylnaphthalene (UV)	2	0.0030	0.0030	0.0031	0.0031	0.0031	0.0030	0.0030	LINR	R	-125.293	329.2731		ug/L	0.0031	1.000	0.99	20	
Naphthalene	3	0.0118	0.0118	0.0118	0.0119	0.0119	0.0117	0.0116	LINR	R	-94.6221	86.22976		ug/L	0.0118	1.000	0.99	20	
2-Methylnaphthalene	3	0.0160	0.0159	0.0160	0.0162	0.0161	0.0158		LINR	R	-62.5727	63.28221		ug/L	0.0160	1.000	0.99	20	
Acenaphthene	3	0.0242	0.0241	0.0242	0.0246	0.0244	0.0239		LINR	R	-65.0465	41.81540		ug/L	0.0242	1.000	0.99	20	
Fluorene	3	0.1329	0.1328	0.1337	0.1349	0.1333	0.1303		LINR	R	-17.9197	7.682417		ug/L	0.1330	1.000	0.99	20	
Phenanthrene	3	0.1403	0.1414	0.1416	0.1432	0.1419	0.1386	0.1387	LINR	R	-8.78491	7.223916		ug/L	0.1408	1.000	0.99	20	
Anthracene	3	0.4105	0.4089	0.4142	0.4203	0.4141	0.4106	0.4119	LINR	R	-2.51560	2.430338		ug/L	0.4129	1.000	0.99	20	
Fluoranthene	3	0.0408	0.0402	0.0409	0.0415	0.0411	0.0406	0.0409	LINR	R	-2.68210	24.50380		ug/L	0.0409	1.000	0.99	20	
Pyrene	3	0.1357	0.1319	0.1342	0.1369	0.1342	0.1312	0.1332	LINR	R	-2.17620	7.531433		ug/L	0.1339	1.000	0.99	20	
Benzo(a)anthracene	3	0.1507	0.1492	0.1525	0.1551	0.1526	0.1506	0.1519	LINR	R	-1.35484	6.595830		ug/L	0.1518	1.000	0.99	20	
Chrysene	3	0.1830	0.1826	0.1864	0.1898	0.1872	0.1843	0.1845	LINR	R	-5.30781	5.425541		ug/L	0.1854	1.000	0.99	20	
Benzo(b)fluoranthene	3	0.0661	0.0655	0.0671	0.0681	0.0672	0.0664	0.0670	LINR	R	-0.37376	14.95462		ug/L	0.0668	1.000	0.99	20	
Benzo(k)fluoranthene	3	0.3904	0.3881	0.3960	0.4014	0.3974	0.3923	0.3904	LINR	R	-7.19750	2.562379		ug/L	0.3937	1.000	0.99	20	
Benzo(a)pyrene	3	0.2124	0.2112	0.2162	0.2193	0.2168	0.2137	0.2143	LINR	R	-3.87655	4.671748		ug/L	0.2148	1.000	0.99	20	
Dibenz(a,h)anthracene	3	0.0298	0.0299	0.0311	0.0319	0.0317	0.0316	0.0320	LINR	R	14.71588	31.27559		ug/L	0.0311	1.000	0.99	20	
Benzo(g,h,i)perylene	3	0.0617	0.0613	0.0626	0.0641	0.0636	0.0633	0.0639	LINR	R	8.495423	15.66461		ug/L	0.0629	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	3	0.0928	0.0930	0.0946	0.0968	0.0967	0.0963	0.0973	LINR	R	6.160114	10.28519		ug/L	0.0953	1.000	0.99	20	
1-Methylnaphthalene (F)	3	0.0132	0.0131	0.0132	0.0133	0.0132	0.0128		LINR	R	-457.427	78.41043		ug/L	0.0131	1.000	0.99	20	

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Curves: LINR: Linear regression

Instrument amount = a0 + response * a1 + response^2 * a2

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Calibration Table

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NEW ICAL. Gm 14 NOV 2005

HPLC04 METHOD 8310

Calib. Data Modified : 11/14/2005 4:07:02 PM

Calculate : External Standard
Based on : Peak Area

Rel. Reference Window : 1.000 %
Abs. Reference Window : 0.200 min
Rel. Non-ref. Window : 1.000 %
Abs. Non-ref. Window : 0.250 min
Do not use Multiplier & Dilution Factor with ISTDs
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Signal 1: DAD1 A, Sig=254,4 Ref=480,80
Signal 2: DAD1 B, Sig=305,4 Ref=480,80
Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
4.798	1	1	500.00000	6.51225	76.77836			Naphthalene
		2	1000.00000	13.02439	76.77905			
		3	2500.00000	32.45070	77.03995			
		4	5000.00000	65.81794	75.96713			
		5	1.00000e4	130.82538	76.43777			
		6	2.50000e4	323.61371	77.25260			
		7	5.00000e4	648.90906	77.05240			
4.839	3	1	500.00000	5.89779	84.77755			Naphthalene
		2	1000.00000	11.75017	85.10517			
		3	2500.00000	29.52386	84.67727			
		4	5000.00000	59.72798	83.71286			
		5	1.00000e4	118.70710	84.24096			
		6	2.50000e4	292.13416	85.57712			
		7	5.00000e4	580.05115	86.19930			
6.052	1	1	1000.00000	9.19383	108.76859			Acenaphthylene
		2	2000.00000	18.17297	110.05354			
		3	5000.00000	46.41474	107.72440			
		4	1.00000e4	94.72365	105.57026			
		5	2.00000e4	187.69478	106.55597			
		6	5.00000e4	461.84637	108.26111			
		7	1.00000e5	913.74396	109.43985			
6.053	2	1	1000.00000	27.33126	36.58814			Acenaphthylene
		2	2000.00000	54.50918	36.69107			
		3	5000.00000	139.26938	35.90165			

Method G:\HPLC4\METHODS\8310-315.M

RetTime [min]	Lvl Sig		Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		4	1.00000e4	281.69171	35.49980			
		5	2.00000e4	559.80969	35.72643			
		6	5.00000e4	1386.26819	36.06806			
		7	1.00000e5	2790.07104	35.84138			
6.831	1	1	2000.00000	16.88634	118.43892			1-Methylnaphthalene (UV)
		2	4000.00000	33.87627	118.07677			
		3	1.00000e4	85.59682	116.82676			
		4	2.00000e4	172.90190	115.67253			
		5	4.00000e4	341.59979	117.09609			
		6	1.00000e5	839.73962	119.08453			
		7	2.00000e5	1681.10107	118.96965			
6.832	2	1	2000.00000	6.07634	329.14529			1-Methylnaphthalene (UV)
		2	4000.00000	12.02570	332.62101			
		3	1.00000e4	30.92526	323.36029			
		4	2.00000e4	62.05173	322.31170			
		5	4.00000e4	122.53880	326.42721			
		6	1.00000e5	302.71973	330.33856			
		7	2.00000e5	608.23541	328.82005			
6.872	3	1	2000.00000	26.32489	75.97373			1-Methylnaphthalene (F)
		2	4000.00000	52.31355	76.46202			
		3	1.00000e4	131.50134	76.04485			
		4	2.00000e4	266.55655	75.03098			
		5	4.00000e4	526.67639	75.94796			
		6	1.00000e5	1276.22900	78.35584			
7.280	1	1	500.00000	5.56723	89.81128			2-Methylnaphthalene
		2	1000.00000	11.21599	89.15845			
		3	2500.00000	28.88600	86.54713			
		4	5000.00000	58.62328	85.29035			
		5	1.00000e4	116.21339	86.04861			
		6	2.50000e4	286.22339	87.34436			
7.335	3	1	500.00000	7.99274	62.55677			2-Methylnaphthalene
		2	1000.00000	15.91236	62.84423			
		3	2500.00000	40.03383	62.44718			
		4	5000.00000	81.15388	61.61135			
		5	1.00000e4	161.03452	62.09849			
		6	2.50000e4	395.10352	63.27456			
7.672	1	1	500.00000	2.42577	206.12028			Acenaphthene
		2	1000.00000	4.86201	205.67637			
		3	2500.00000	12.71169	196.66929			
		4	5000.00000	25.83322	193.54924			
		5	1.00000e4	51.07816	195.77838			
		6	2.50000e4	125.66128	198.94752			
		7	5.00000e4	249.59686	200.32303			
7.712	3	1	500.00000	12.09695	41.33272			Acenaphthene
		2	1000.00000	24.11610	41.46607			
		3	2500.00000	60.52220	41.30716			
		4	5000.00000	122.93717	40.67118			
		5	1.00000e4	243.99982	40.98364			
		6	2.50000e4	597.90503	41.81266			
8.199	1	1	100.00000	6.23287	16.04397			Fluorene
		2	200.00000	12.36933	16.16903			
		3	500.00000	31.54358	15.85108			
		4	1000.00000	63.90393	15.64849			
		5	2000.00000	126.50168	15.81007			
		6	5000.00000	313.40030	15.95404			
		7	1.00000e4	629.23938	15.89220			
8.239	3	1	100.00000	13.29075	7.52403			Fluorene
		2	200.00000	26.56478	7.52876			
		3	500.00000	66.85545	7.47882			
		4	1000.00000	134.87556	7.41424			
		5	2000.00000	266.58530	7.50229			
		6	5000.00000	651.29639	7.67700			
9.318	1	1	50.00000	9.00343	5.55344			Phenanthrene

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	100.00000	17.66359	5.66136			
		3	250.00000	45.08168	5.54549			
		4	500.00000	91.29965	5.47647			
		5	1000.00000	180.14212	5.55117			
		6	2500.00000	446.01529	5.60519			
		7	5000.00000	897.40991	5.57159			
9.358	3	1	50.00000	7.01743	7.12511			Phenanthrene
		2	100.00000	14.14166	7.07130			
		3	250.00000	35.38944	7.06425			
		4	500.00000	71.59289	6.98393			
		5	1000.00000	141.86461	7.04897			
		6	2500.00000	346.48584	7.21530			
		7	5000.00000	693.25409	7.21236			
10.346	1	1	50.00000	20.15521	2.48075			Anthracene
		2	100.00000	40.32065	2.48012			
		3	250.00000	101.99684	2.45106			
		4	500.00000	206.70654	2.41889			
		5	1000.00000	408.35837	2.44883			
		6	2500.00000	1010.66217	2.47363			
		7	5000.00000	2024.80078	2.46938			
10.386	3	1	50.00000	20.52480	2.43608			Anthracene
		2	100.00000	40.89180	2.44548			
		3	250.00000	103.54391	2.41443			
		4	500.00000	210.14381	2.37932			
		5	1000.00000	414.05106	2.41516			
		6	2500.00000	1026.49353	2.43548			
		7	5000.00000	2059.37134	2.42793			
11.504	1	1	100.00000	4.05160	24.68162			Fluoranthene
		2	200.00000	8.01856	24.94213			
		3	500.00000	20.35011	24.56989			
		4	1000.00000	41.57235	24.05445			
		5	2000.00000	82.13621	24.34980			
		6	5000.00000	203.73349	24.54187			
		7	1.00000e4	411.60339	24.29523			
11.543	3	1	100.00000	4.08160	24.50019			Fluoranthene
		2	200.00000	8.04222	24.86875			
		3	500.00000	20.46036	24.43750			
		4	1000.00000	41.54289	24.07151			
		5	2000.00000	82.12543	24.35299			
		6	5000.00000	203.17122	24.60978			
		7	1.00000e4	408.57028	24.47559			
12.274	1	1	50.00000	1.62059	30.85291			Pyrene
		2	100.00000	3.19098	31.33834			
		3	250.00000	8.29422	30.14147			
		4	500.00000	16.68730	29.96290			
		5	1000.00000	32.97289	30.32795			
		6	2500.00000	82.77225	30.20336			
		7	5000.00000	168.06082	29.75113			
12.313	3	1	50.00000	6.78313	7.37123			Pyrene
		2	100.00000	13.19262	7.58000			
		3	250.00000	33.54156	7.45344			
		4	500.00000	68.45862	7.30368			
		5	1000.00000	134.23868	7.44942			
		6	2500.00000	328.05682	7.62063			
		7	5000.00000	665.85370	7.50916			
15.125	1	1	50.00000	4.23180	11.81530			Benzo(a)anthracene
		2	100.00000	9.04188	11.05964			
		3	250.00000	22.65013	11.03746			
		4	500.00000	45.84408	10.90653			
		5	1000.00000	91.03773	10.98446			
		6	2500.00000	225.67519	11.07787			
		7	5000.00000	459.00107	10.89322			
15.164	3	1	50.00000	7.53349	6.63703			Benzo(a)anthracene

Method G:\HPLC4\METHODS\8310-315.M

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	100.00000	14.92142	6.70177			
		3	250.00000	38.11910	6.55839			
		4	500.00000	77.56648	6.44608			
		5	1000.00000	152.59743	6.55319			
		6	2500.00000	376.53439	6.63950			
		7	5000.00000	759.30841	6.58494			
15.624	1	1	50.00000	6.49550	7.69764			Chrysene
		2	100.00000	12.97757	7.70560			
		3	250.00000	32.97633	7.58119			
		4	500.00000	67.56745	7.40001			
		5	1000.00000	133.20935	7.50698			
		6	2500.00000	330.15082	7.57230			
		7	5000.00000	667.71228	7.48826			
15.664	3	1	50.00000	9.15220	5.46317			Chrysene
		2	100.00000	18.25678	5.47742			
		3	250.00000	46.59403	5.36549			
		4	500.00000	94.90897	5.26821			
		5	1000.00000	187.15659	5.34312			
		6	2500.00000	460.78613	5.42551			
		7	5000.00000	922.53937	5.41982			
17.842	1	1	100.00000	9.89154	10.10965			Benzo(b)fluoranthene
		2	200.00000	20.49215	9.75983			
		3	500.00000	52.71000	9.48587			
		4	1000.00000	107.62183	9.29180			
		5	2000.00000	213.82385	9.35349			
		6	5000.00000	529.55377	9.44191			
		7	1.00000e4	1067.59534	9.36684			
17.883	3	1	100.00000	6.61389	15.11970			Benzo(b)fluoranthene
		2	200.00000	13.10739	15.25857			
		3	500.00000	33.56808	14.89510			
		4	1000.00000	68.05548	14.69389			
		5	2000.00000	134.33257	14.88842			
		6	5000.00000	331.92670	15.06357			
		7	1.00000e4	669.70776	14.93189			
18.796	1	1	50.00000	4.03241	12.39953			Benzo(k)fluoranthene
		2	100.00000	7.57503	13.20127			
		3	250.00000	19.62153	12.74110			
		4	500.00000	40.20050	12.43765			
		5	1000.00000	80.29658	12.45383			
		6	2500.00000	200.76387	12.45244			
		7	5000.00000	406.82126	12.29041			
18.837	3	1	50.00000	19.52037	2.56143			Benzo(k)fluoranthene
		2	100.00000	38.80871	2.57674			
		3	250.00000	99.01035	2.52499			
		4	500.00000	200.72287	2.49100			
		5	1000.00000	397.35812	2.51662			
		6	2500.00000	980.66785	2.54928			
		7	5000.00000	1952.04028	2.56142			
19.734	1	1	50.00000	3.90437	12.80616			Benzo(a)pyrene
		2	100.00000	8.12252	12.31145			
		3	250.00000	21.05889	11.87147			
		4	500.00000	43.33799	11.53722			
		5	1000.00000	86.29072	11.58873			
		6	2500.00000	215.14328	11.62016			
		7	5000.00000	435.20081	11.48895			
19.774	3	1	50.00000	10.62241	4.70703			Benzo(a)pyrene
		2	100.00000	21.12371	4.73402			
		3	250.00000	54.04917	4.62542			
		4	500.00000	109.65622	4.55970			
		5	1000.00000	216.76112	4.61337			
		6	2500.00000	534.25336	4.67943			
		7	5000.00000	1071.43713	4.66663			
21.335	1	1	100.00000	1.74457	57.32080			Dibenz(a,h)anthracene

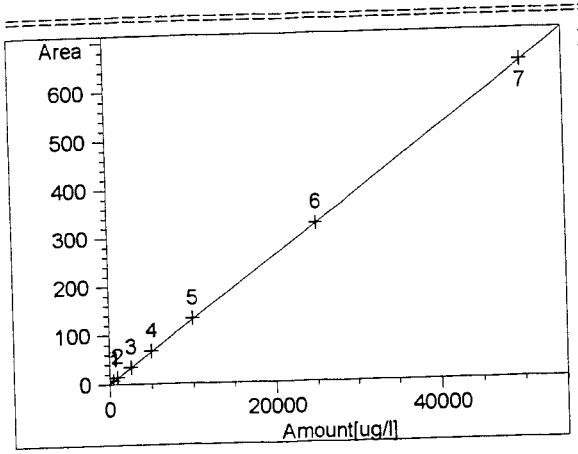
Method G:\HPLC4\METHODS\8310-315.M

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	200.00000	4.18672	47.77004			
		3	500.00000	10.15091	49.25669			
		4	1000.00000	20.86957	47.91665			
		5	2000.00000	42.28377	47.29947			
		6	5000.00000	106.57118	46.91700			
		7	1.00000e4	215.69028	46.36278			
21.376	3	1	100.00000	2.98045	33.55199			Dibenz(a,h)anthracene
		2	200.00000	5.97678	33.46283			
		3	500.00000	15.56407	32.12527			
		4	1000.00000	31.90387	31.34416			
		5	2000.00000	63.43048	31.53058			
		6	5000.00000	158.05646	31.63427			
		7	1.00000e4	319.90201	31.25957			
22.099	1	1	100.00000	3.32142	30.10762			Benzo(g,h,i)perylene
		2	200.00000	6.91262	28.93260			
		3	500.00000	17.35672	28.80728			
		4	1000.00000	35.38666	28.25924			
		5	2000.00000	70.51058	28.36454			
		6	5000.00000	176.29678	28.36127			
		7	1.00000e4	357.48672	27.97307			
22.140	3	1	100.00000	6.17302	16.19953			Benzo(g,h,i)perylene
		2	200.00000	12.25580	16.31880			
		3	500.00000	31.30061	15.97413			
		4	1000.00000	64.07645	15.60636			
		5	2000.00000	127.25459	15.71653			
		6	5000.00000	316.47900	15.79884			
		7	1.00000e4	638.82190	15.65382			
22.620	1	1	50.00000	4.21460	11.86352			Indeno(1,2,3-cd)pyrene
		2	100.00000	8.38093	11.93185			
		3	250.00000	22.88771	10.92289			
		4	500.00000	47.41936	10.54422			
		5	1000.00000	94.73141	10.55616			
		6	2500.00000	236.57013	10.56769			
		7	5000.00000	476.41440	10.49506			
22.661	3	1	50.00000	4.64120	10.77307			Indeno(1,2,3-cd)pyrene
		2	100.00000	9.29544	10.75796			
		3	250.00000	23.65410	10.56899			
		4	500.00000	48.39191	10.33231			
		5	1000.00000	96.65224	10.34637			
		6	2500.00000	240.76752	10.38346			
		7	5000.00000	486.34088	10.28085			

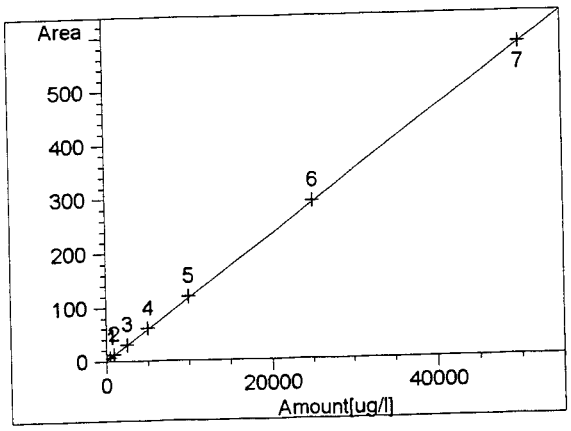
Peak Sum Table

No Entries in table

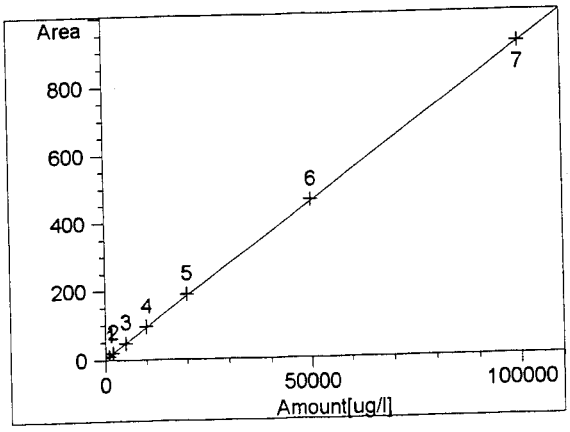
Calibration Curves



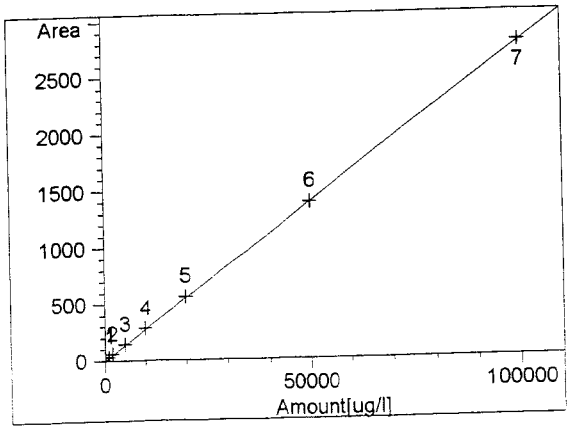
Naphthalene at exp. RT: 4.798
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.66440
Formula: y = mx + b
m: 1.29671e-2
b: 3.20474e-1
x: Amount[ug/l]
y: Area



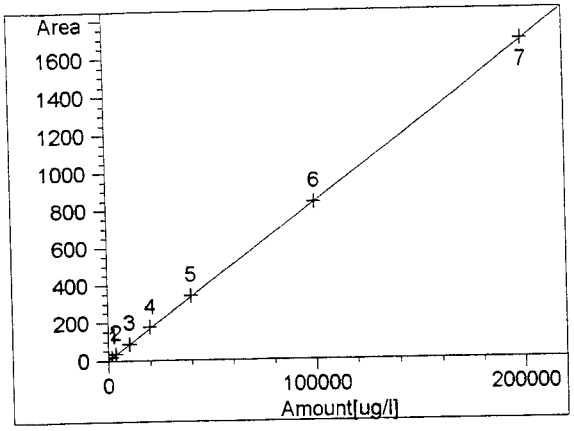
Naphthalene at exp. RT: 4.839
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.21267
Formula: y = mx + b
m: 1.15969e-2
b: 1.09732
x: Amount[ug/l]
y: Area



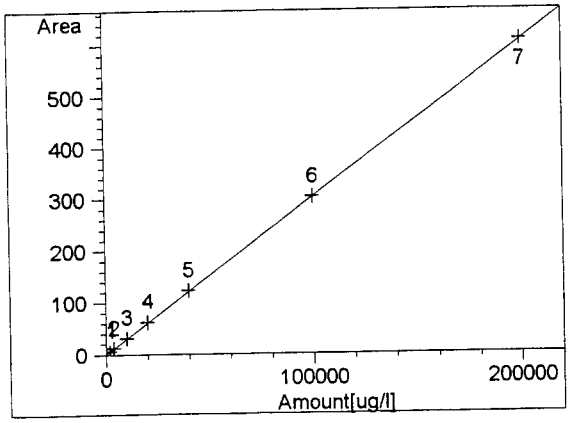
Acenaphthylene at exp. RT: 6.052
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 2.57482
Formula: y = mx + b
m: 9.13868e-3
b: 1.95971
x: Amount[ug/l]
y: Area



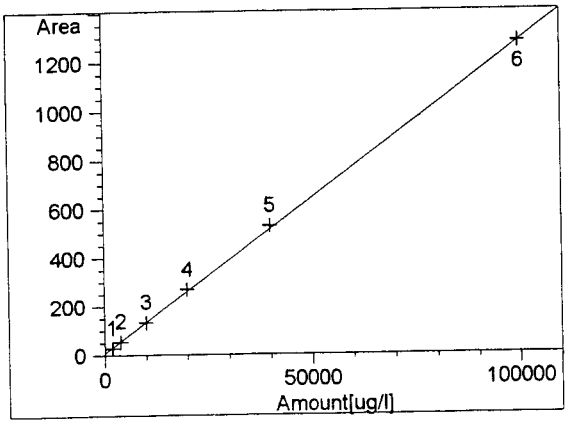
Acenaphthylene at exp. RT: 6.053
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 3.95166
Formula: y = mx + b
m: 2.78746e-2
b: -2.10217e-1
x: Amount[ug/l]
y: Area



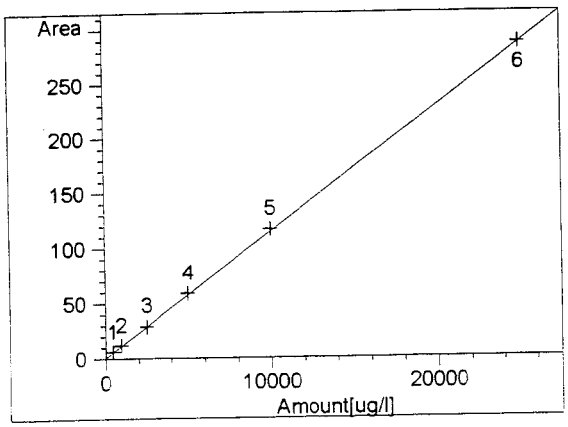
1-Methylnaphthalene (UV) at exp. RT: 6.831
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 2.56891
Formula: y = mx + b
m: 8.39433e-3
b: 2.20489
x: Amount[ug/l]
y: Area



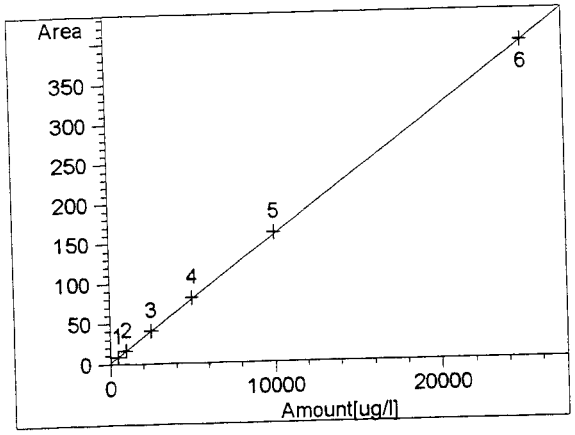
1-Methylnaphthalene (UV) at exp. RT: 6.832
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.87319
Formula: y = mx + b
m: 3.03699e-3
b: 3.80514e-1
x: Amount[ug/l]
y: Area



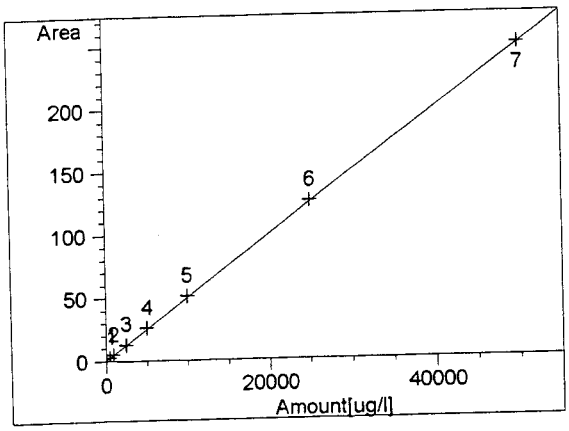
1-Methylnaphthalene (F) at exp. RT: 6.872
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99990
Residual Std. Dev.: 7.42050
Formula: y = mx + b
m: 1.27534e-2
b: 5.83375
x: Amount[ug/l]
y: Area



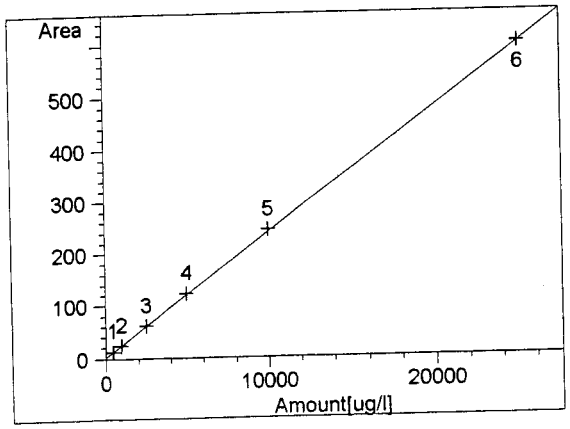
2-Methylnaphthalene at exp. RT: 7.280
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 0.93927
Formula: y = mx + b
m: 1.14550e-2
b: 4.51222e-1
x: Amount[ug/l]
y: Area



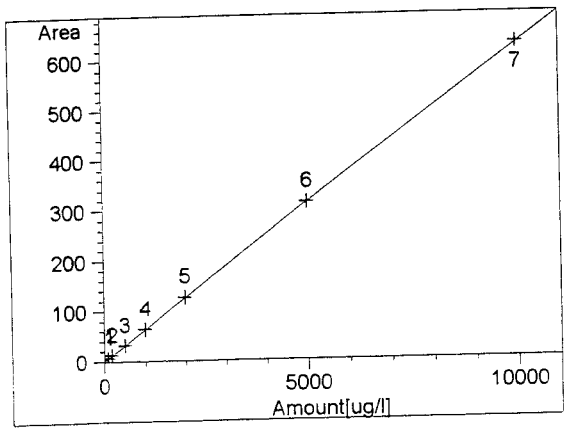
2-Methylnaphthalene at exp. RT: 7.335
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 1.42306
Formula: y = mx + b
m: 1.58022e-2
b: 9.88789e-1
x: Amount[ug/l]
y: Area



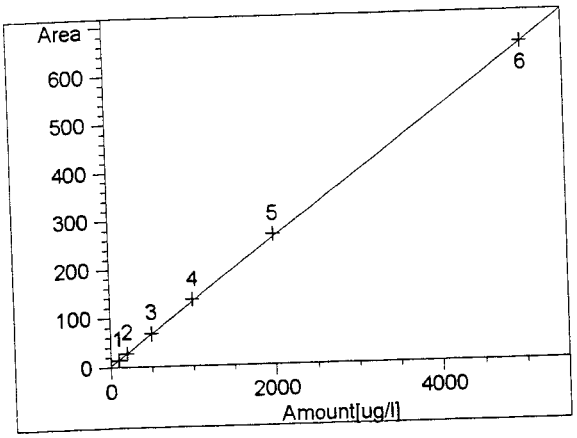
Acenaphthene at exp. RT: 7.672
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.58330
Formula: y = mx + b
m: 4.99125e-3
b: 4.27298e-1
x: Amount[ug/l]
y: Area



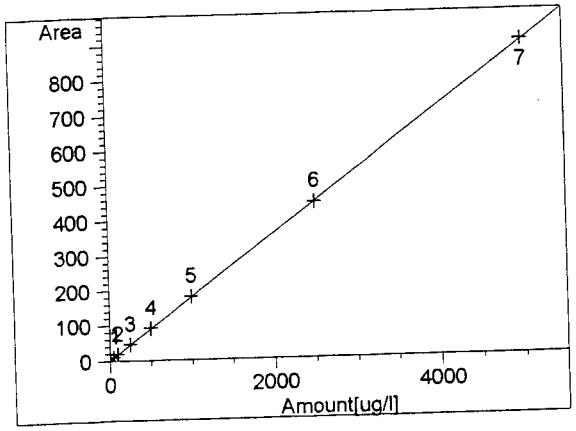
Acenaphthene at exp. RT: 7.712
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 2.28893
Formula: y = mx + b
m: 2.39146e-2
b: 1.55557
x: Amount[ug/l]
y: Area



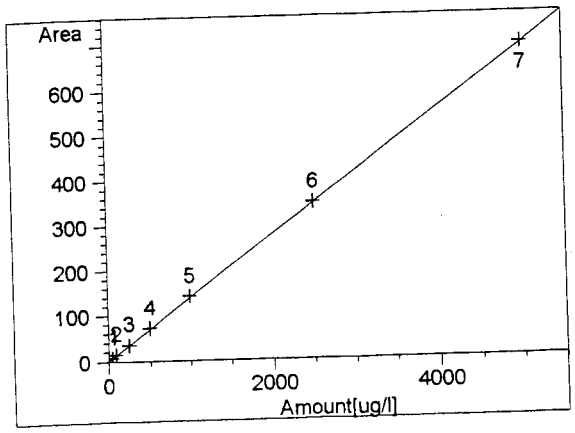
Fluorene at exp. RT: 8.199
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.73220
Formula: y = mx + b
m: 6.28687e-2
b: 1.80023e-1
x: Amount[ug/l]
y: Area



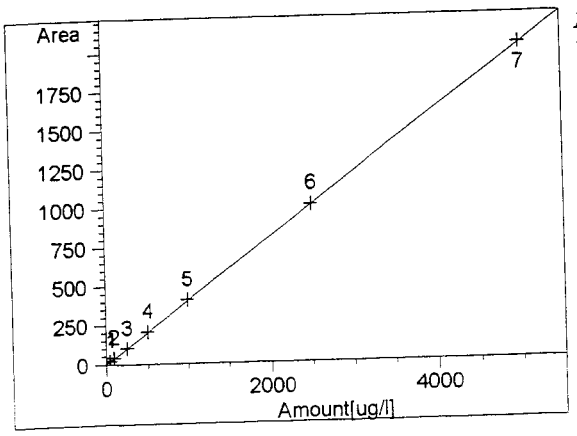
Fluorene at exp. RT: 8.239
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99995
Residual Std. Dev.: 2.84162
Formula: y = mx + b
m: 1.30167e-1
b: 2.33256
x: Amount[ug/l]
y: Area



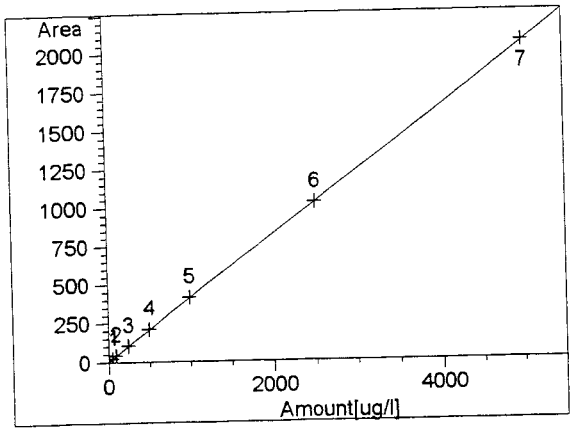
Phenanthrene at exp. RT: 9.318
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 1.35222
Formula: y = mx + b
m: 1.79253e-1
b: 2.33836e-1
x: Amount[ug/l]
y: Area



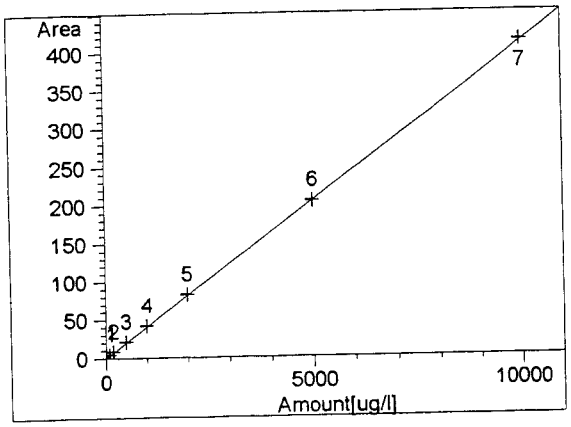
Phenanthrene at exp. RT: 9.358
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.35775
Formula: y = mx + b
m: 1.38429e-1
b: 1.21609
x: Amount[ug/l]
y: Area



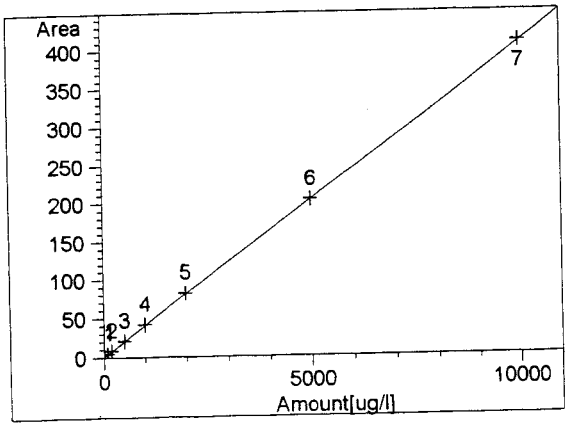
Anthracene at exp. RT: 10.346
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 2.21901
Formula: y = mx + b
m: 4.04598e-1
b: 1.39720
x: Amount[ug/l]
y: Area



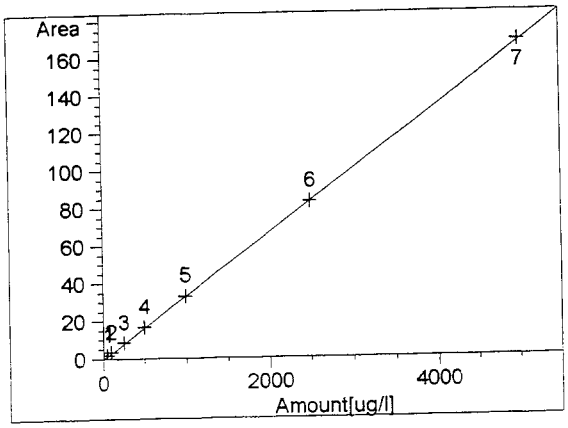
Anthracene at exp. RT: 10.386
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 2.36890
Formula: y = mx + b
m: 4.11465e-1
b: 1.03508
x: Amount[ug/l]
y: Area



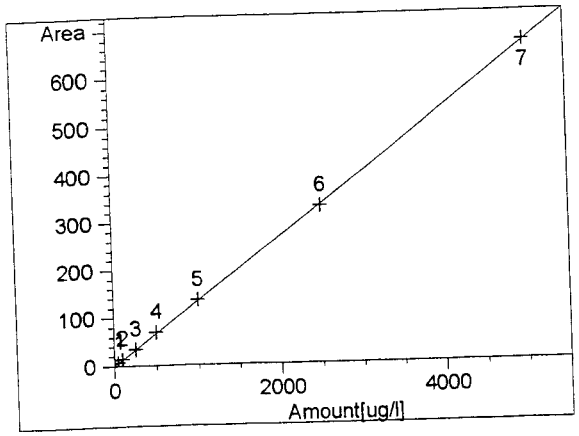
Fluoranthene at exp. RT: 11.504
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.84613
Formula: y = mx + b
m: 4.11083e-2
b: -1.95725e-1
x: Amount[ug/l]
y: Area



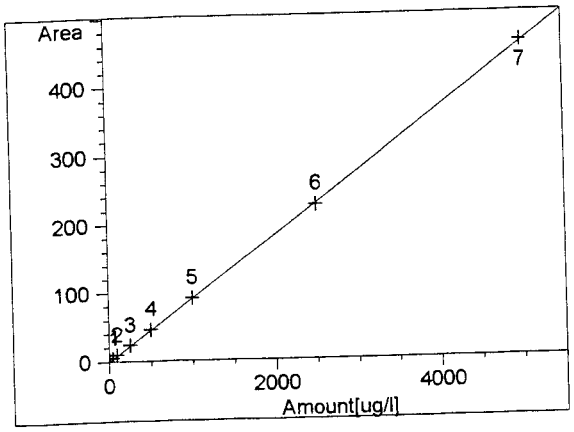
Fluoranthene at exp. RT: 11.543
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.58645
Formula: y = mx + b
m: 4.08100e-2
b: 1.09457e-1
x: Amount[ug/l]
y: Area



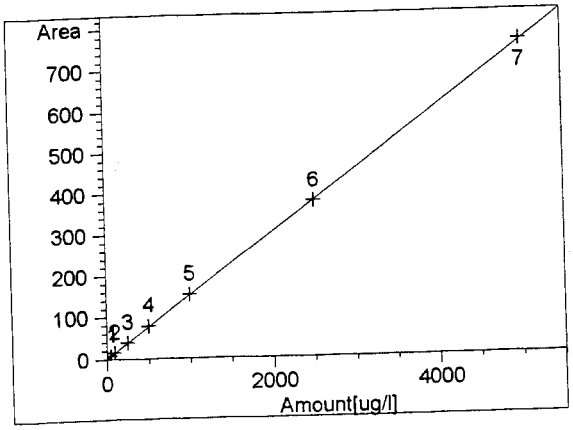
Pyrene at exp. RT: 12.274
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 0.49621
Formula: y = mx + b
m: 3.35757e-2
b: -2.87441e-1
x: Amount[ug/l]
y: Area



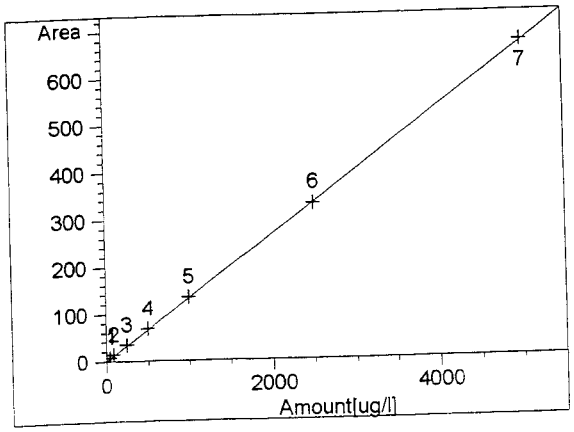
Pyrene at exp. RT: 12.313
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 2.23433
Formula: y = mx + b
m: 1.32777e-1
b: 2.88948e-1
x: Amount[ug/l]
y: Area



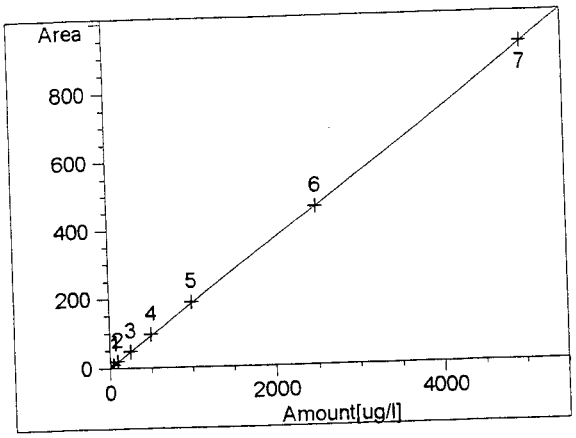
Benzo(a)anthracene at exp. RT: 15.125
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 1.46481
Formula: y = mx + b
m: 9.16421e-2
b: -5.64799e-1
x: Amount[ug/l]
y: Area



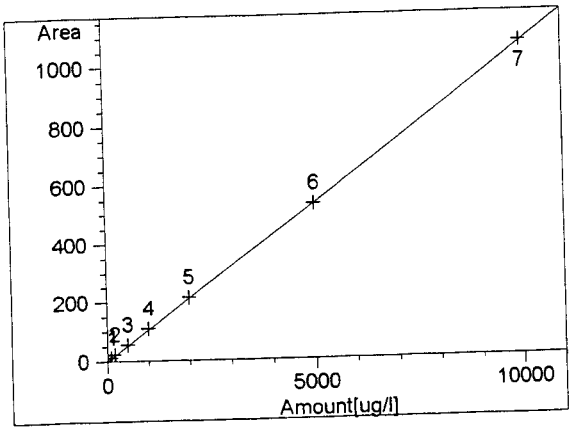
Benzo(a)anthracene at exp. RT: 15.164
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.52788
Formula: y = mx + b
m: 1.51611e-1
b: 2.05410e-1
x: Amount[ug/l]
y: Area



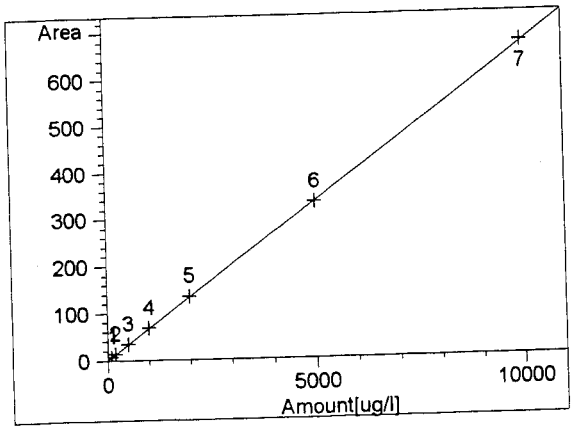
Chrysene at exp. RT: 15.624
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 1.52322
Formula: y = mx + b
m: 1.33357e-1
b: -3.52762e-1
x: Amount[ug/l]
y: Area



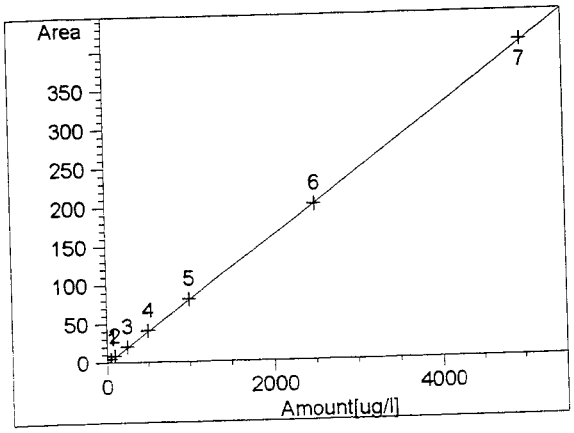
Chrysene at exp. RT: 15.664
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.42864
Formula: y = mx + b
m: 1.84313e-1
b: 9.78301e-1
x: Amount[ug/l]
y: Area



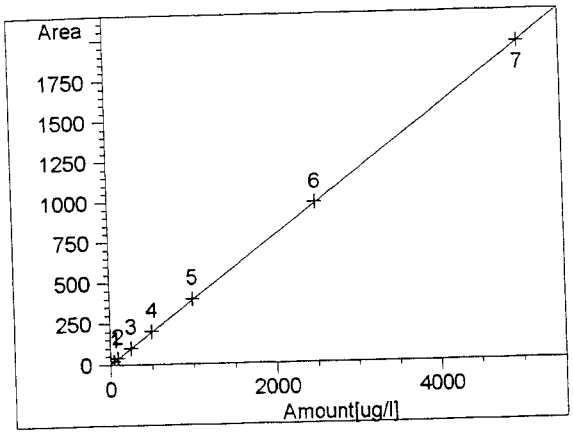
Benzo(b)fluoranthene at exp. RT: 17.842
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 1.79272
Formula: y = mx + b
m: 1.06686e-1
b: -5.73080e-1
x: Amount[ug/l]
y: Area



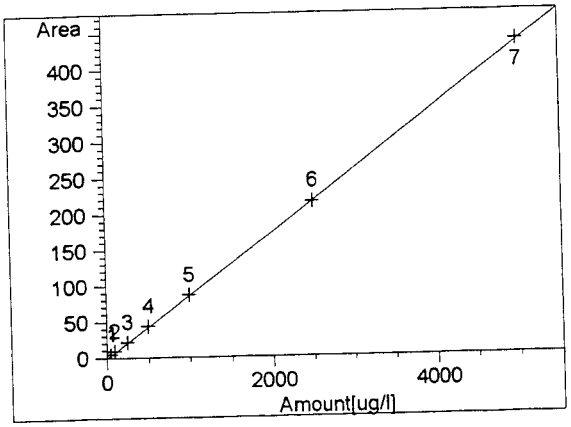
Benzo(b)fluoranthene at exp. RT: 17.883
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.32175
Formula: y = mx + b
m: 6.68690e-2
b: 2.49898e-2
x: Amount[ug/l]
y: Area



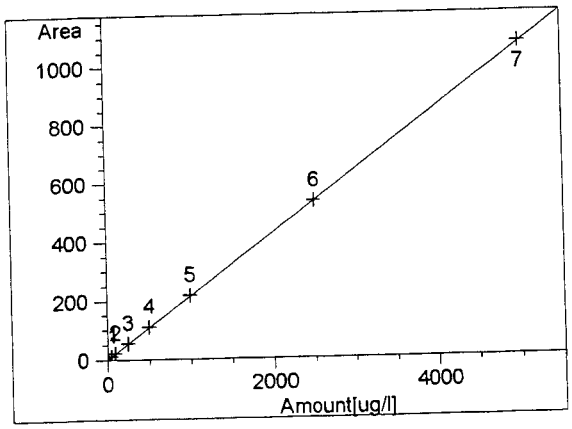
Benzo(k)fluoranthene at exp. RT: 18.796
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.98396
Formula: y = mx + b
m: 8.13261e-2
b: -7.36369e-1
x: Amount[ug/l]
y: Area



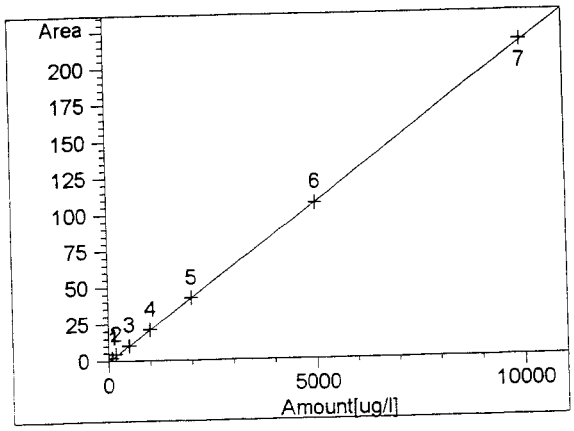
Benzo(k)fluoranthene at exp. RT: 18.837
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 3.29157
Formula: y = mx + b
m: 3.90262e-1
b: 2.80891
x: Amount[ug/l]
y: Area



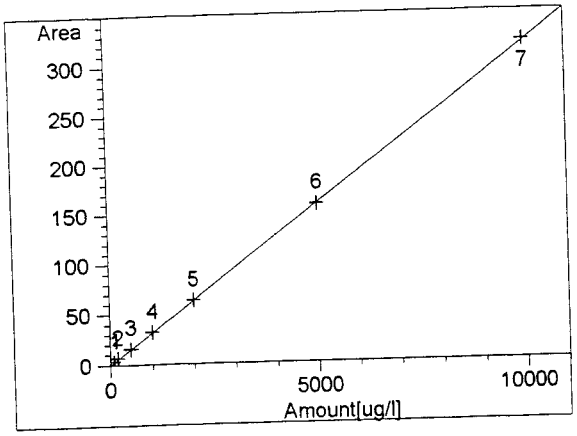
Benzo(a)pyrene at exp. RT: 19.734
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.88457
Formula: y = mx + b
m: 8.70219e-2
b: -7.06704e-1
x: Amount[ug/l]
y: Area



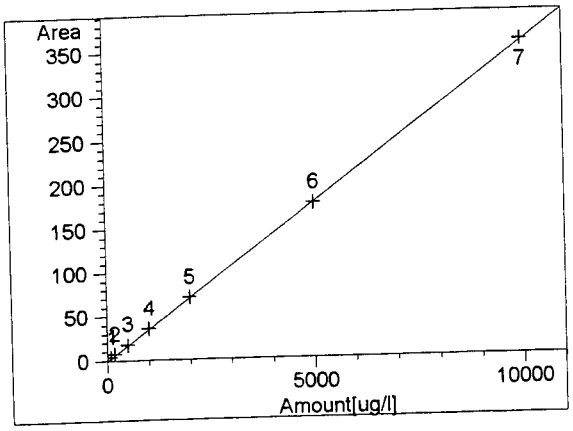
Benzo(a)pyrene at exp. RT: 19.774
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.54630
Formula: y = mx + b
m: 2.14053e-1
b: 8.29784e-1
x: Amount[ug/l]
y: Area



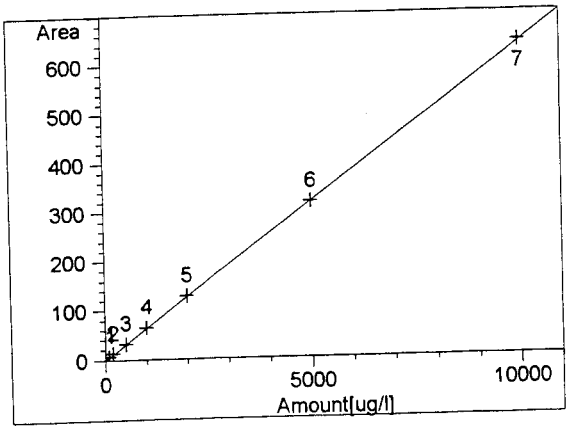
Dibenz(a,h)anthracene at exp. RT: 21.335
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.47152
Formula: y = mx + b
m: 2.15889e-2
b: -6.24820e-1
x: Amount[ug/l]
y: Area



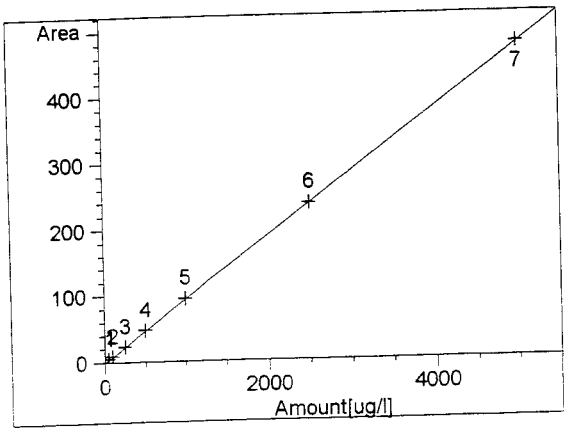
Dibenz(a,h)anthracene at exp. RT: 21.376
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.69795
Formula: y = mx + b
m: 3.19738e-2
b: -4.70523e-1
x: Amount[ug/l]
y: Area



Benzo(g,h,i)perylene at exp. RT: 22.099
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.90912
Formula: y = mx + b
m: 3.57236e-2
b: -6.18946e-1
x: Amount[ug/l]
y: Area

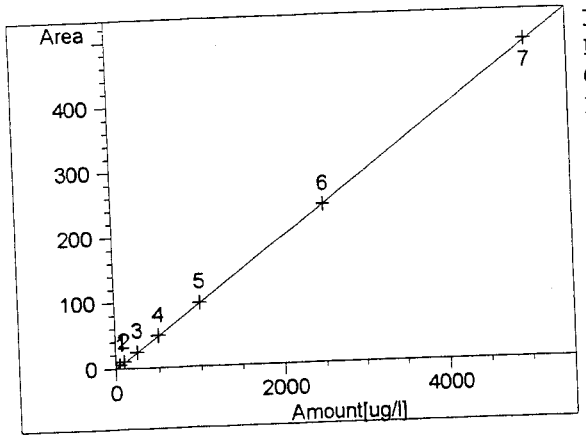


Benzo(g,h,i)perylene at exp. RT: 22.140
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.13249
Formula: y = mx + b
m: 6.38382e-2
b: -5.42335e-1
x: Amount[ug/l]
y: Area



Indeno(1,2,3-cd)pyrene at exp. RT: 22.620
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.59301
Formula: y = mx + b
m: 9.53650e-2
b: -8.30323e-1
x: Amount[ug/l]
y: Area

Method G:\HPLC4\METHODS\8310-315.M



Indeno(1,2,3-cd)pyrene at exp. RT: 22.661
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.87865
Formula: y = mx + b
m: 9.72272e-2
b: -5.98930e-1
x: Amount[ug/l]
y: Area

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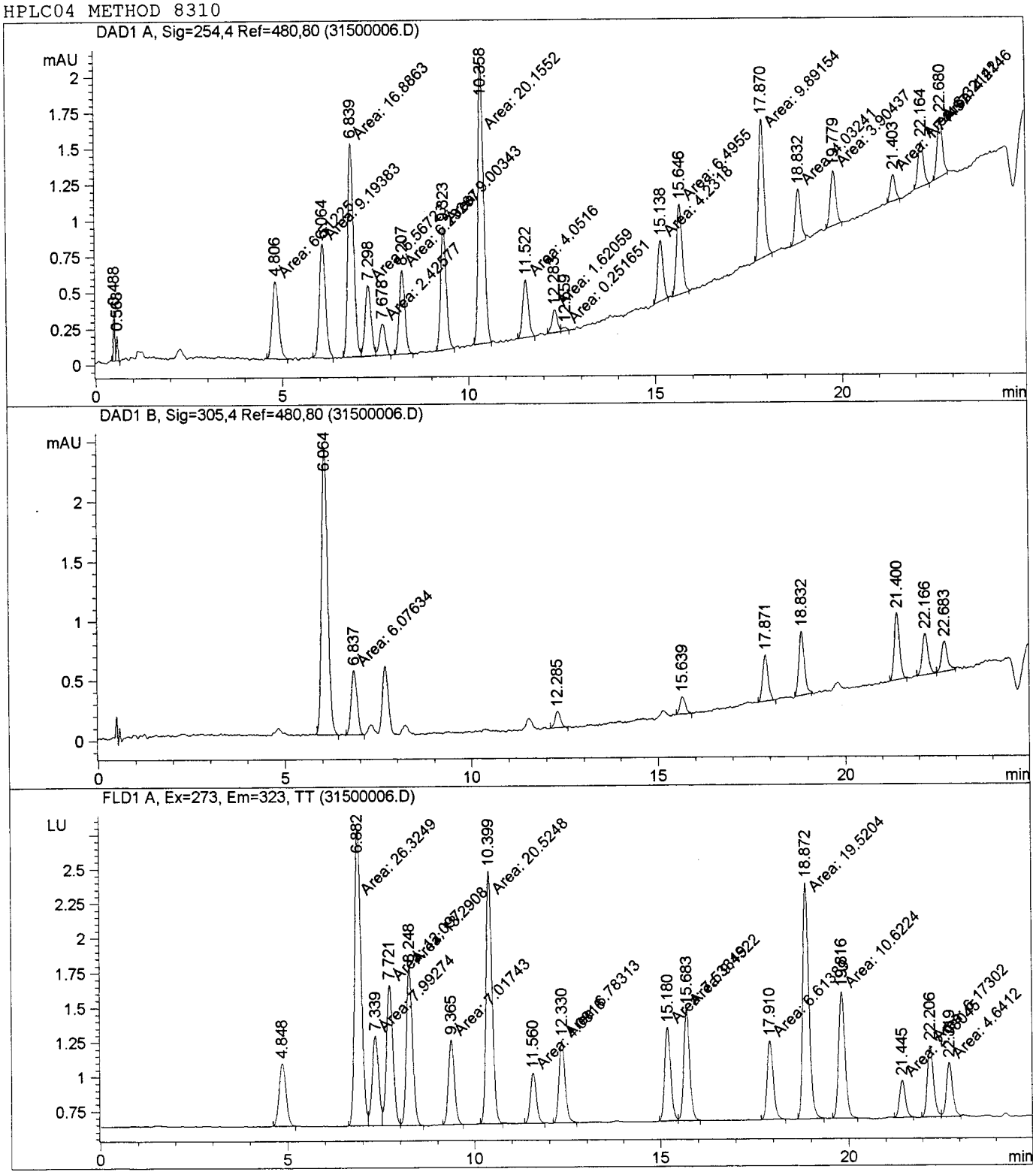
Injection Date	: 11/11/2005 1:27:15 PM	Seq. Line :	6
Sample Name	: ICAL,S1620	Location :	Vial 6
Acq. Operator	: HPL	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		

HPLC04 METHOD 8310



JM 14 NOV 2005

External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.806	MM	6.51225	56.86105	370.29343		Naphthalene
6.064	MM	9.19383	58.19914	535.07300		Acenaphthylene
6.839	MF	16.88634	73.04479	1233.45919		1-Methylnaphthalene (UV)
7.298	MF	5.56723	57.99403	322.86608		2-Methylnaphthalene
7.678	FM	2.42577	147.05712	356.72647		Acenaphthene
8.207	MM	6.23287	12.11196	75.49227		Fluorene
9.323	MM	9.00343	2.76923	24.93256		Phenanthrene
10.358	MM	20.15521	1.91776	38.65276		Anthracene
11.522	MM	4.05160	19.76988	80.09961		Fluoranthene
12.283	MF	1.62059	35.10247	56.88681		Pyrene
15.138	MM	4.23180	10.93045	46.25550		Benzo(a)anthracene
15.646	MM	6.49550	5.89676	38.30237		Chrysene
17.870	MM	9.89154	7.77704	76.92689		Benzo(b)fluoranthene
18.832	MF	4.03241	11.96373	48.24266		Benzo(k)fluoranthene
19.779	MM	3.90437	11.75763	45.90614		Benzo(a)pyrene
21.403	MM	1.74457	56.46976	98.51531		Dibenz(a,h)anthracene
22.164	MM	3.32142	28.03996	93.13242		Benzo(g,h,i)perylene
22.680	MM	4.21460	9.19393	38.74875		Indeno(1,2,3-cd)pyrene

Totals : 3580.51221

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.064	BP	27.33126	24.71319	675.44268		Acenaphthylene
6.837	MM	6.07634	213.49637	1297.27738		1-Methylnaphthalene (UV)

Totals : 1972.72006

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.848	BB	5.89779	49.41812	291.45757		Naphthalene
6.882	MF	26.32489	30.40977	800.53371		1-Methylnaphthalene (F)
7.339	MF	7.99274	39.37761	314.73504		2-Methylnaphthalene
7.721	MF	12.09695	29.44551	356.20097		Acenaphthene
8.248	FM	13.29075	4.05727	53.92417		Fluorene
9.365	MM	7.01743	3.35131	23.51756		Phenanthrene
10.399	MM	20.52480	1.63013	33.45802		Anthracene
11.560	MM	4.08160	20.52283	83.76600		Fluoranthene
12.330	MM	6.78313	7.86729	53.36481		Pyrene
15.180	MF	7.53349	5.17794	39.00797		Benzo(a)anthracene
15.683	FM	9.15220	2.67273	24.46138		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.910	MM	6.61389	10.62492	70.27206		Benzo(b)fluoranthene
18.872	MM	19.52037	1.78030	34.75221		Benzo(k)fluoranthene
19.816	MM	10.62241	3.35282	35.61502		Benzo(a)pyrene
21.445	MM	2.98045	33.40539	99.56307		Dibenz(a,h)anthracene
22.206	MF	6.17302	14.19328	87.61536		Benzo(g,h,i)perylene
22.719	MF	4.64120	9.78017	45.39175		Indeno(1,2,3-cd)pyrene

Totals : 2447.63667

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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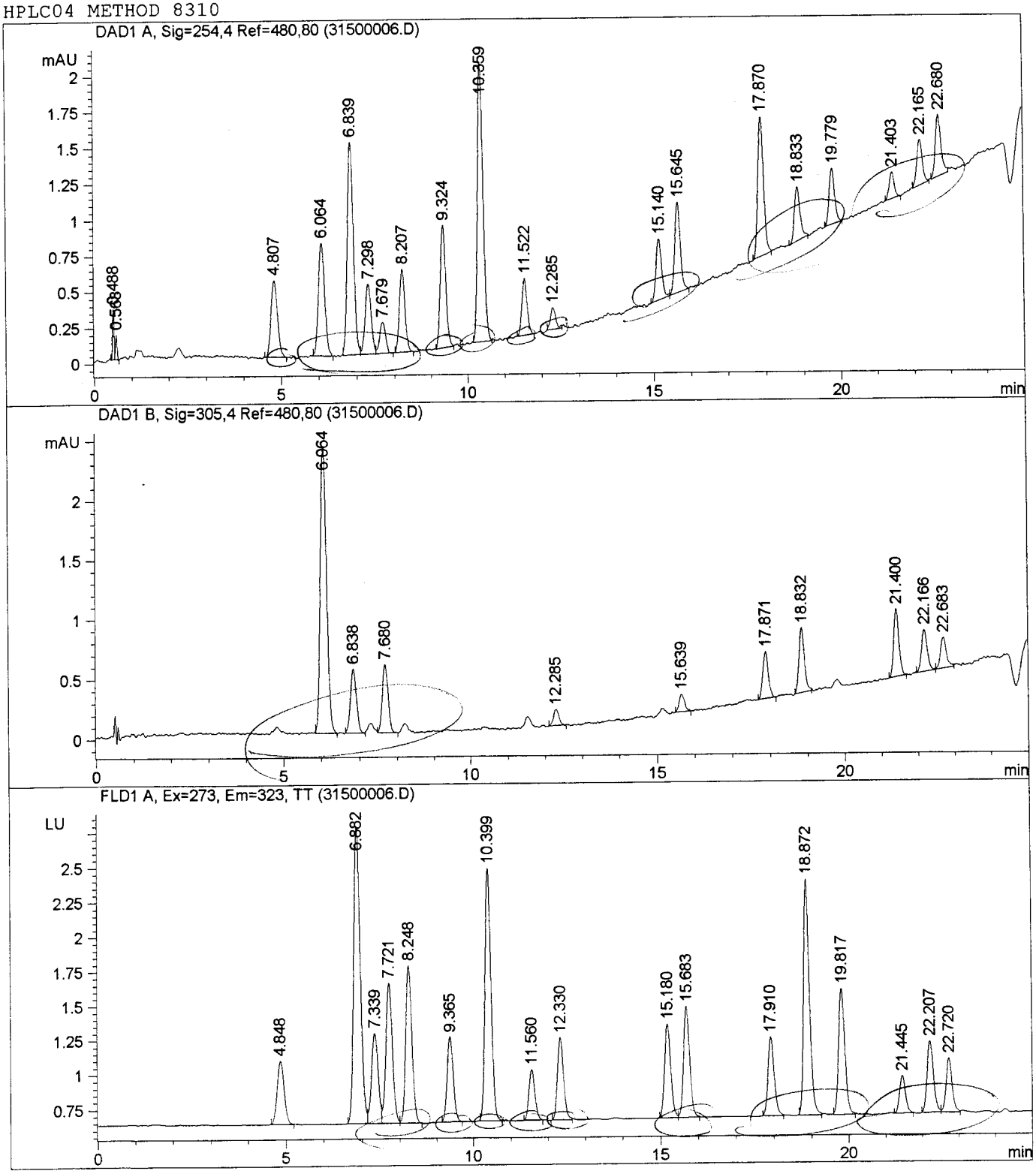
Injection Date : 11/11/2005 1:27:15 PM
Sample Name : ICAL,S1620
Acq. Operator : HPL
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\111105.S
Method : G:\HPLC4\METHODS\8310-279.M
Last changed : 10/6/2005 3:43:10 PM by HPL
HPLC04 METHOD 8310

Seq. Line : 6
Location : Vial 6
Inj : 1
Inj Volume : 10 µl



External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.807	BB	6.48843	56.79090	368.48387		Naphthalene
6.064	BP	9.08332	57.60331	523.22952		Acenaphthylene
6.839	BV	16.84054	72.92289	1228.06089		1-Methylnaphthalene (UV)
7.298	VV	5.53367	57.82593	319.98974		2-Methylnaphthalene
7.679	VP	2.37214	145.70353	345.62860		Acenaphthene
8.207	BP	6.18553	12.08387	74.74518		Fluorene
9.324	PB	9.00831	2.77079	24.96015		Phenanthrene
10.359	BB	20.20749	1.91976	38.79358		Anthracene
11.522	BP	3.99073	19.69836	78.61085		Fluoranthene
12.285	BB	1.55857	35.23862	54.92173		Pyrene
15.140	PB	4.45730	10.96271	48.86406		Benzo(a)anthracene
15.645	BB	6.62136	5.92577	39.23667		Chrysene
17.870	PB	9.93459	7.78333	77.32422		Benzo(b)fluoranthene
18.833	PB	4.02658	11.96323	48.17094		Benzo(k)fluoranthene
19.779	BB	3.97740	11.77272	46.82479		Benzo(a)pyrene
21.403	BP	1.79815	56.17209	101.00558		Dibenz(a,h)anthracene
22.165	BB	3.50165	28.13018	98.50199		Benzo(g,h,i)perylene
22.680	BB	4.68536	9.33797	43.75172		Indeno(1,2,3-cd)pyrene

Totals : 3561.10408

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.064	BP	27.33126	24.71319	675.44268		Acenaphthylene
6.838	BB	6.07096	213.39573	1295.51707		1-Methylnaphthalene (UV)

Totals : 1970.95975

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.848	BB	5.89779	49.41812	291.45757		Naphthalene
6.882	BV	26.27604	30.30604	796.32285		1-Methylnaphthalene (F)
7.339	VV	7.97189	39.30745	313.35471		2-Methylnaphthalene
7.721	VV	12.09099	29.43684	355.92065		Acenaphthene
8.248	VP	13.24561	4.04421	53.56798		Fluorene
9.365	BB	7.01924	3.35243	23.53151		Phenanthrene
10.399	BB	20.54425	1.63136	33.51512		Anthracene
11.560	BB	4.03565	20.46929	82.60681		Fluoranthene
12.330	BB	6.70945	7.86191	52.74905		Pyrene
15.180	BV	7.56173	5.18664	39.22003		Benzo(a)anthracene
15.683	VB	9.20633	2.69021	24.76698		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.910	BB	6.59814	10.61285	70.02508		Benzo(b)fluoranthene
18.872	BB	19.53803	1.78116	34.80030		Benzo(k)fluoranthene
19.817	BB	10.65707	3.35968	35.80430		Benzo(a)pyrene
21.445	BB	2.96583	33.41073	99.09071		Dibenz(a,h)anthracene
22.207	BV	6.13286	14.17284	86.92008		Benzo(g,h,i)perylene
22.720	VB	4.60901	9.77185	45.03854		Indeno(1,2,3-cd)pyrene

Totals : 2438.69226

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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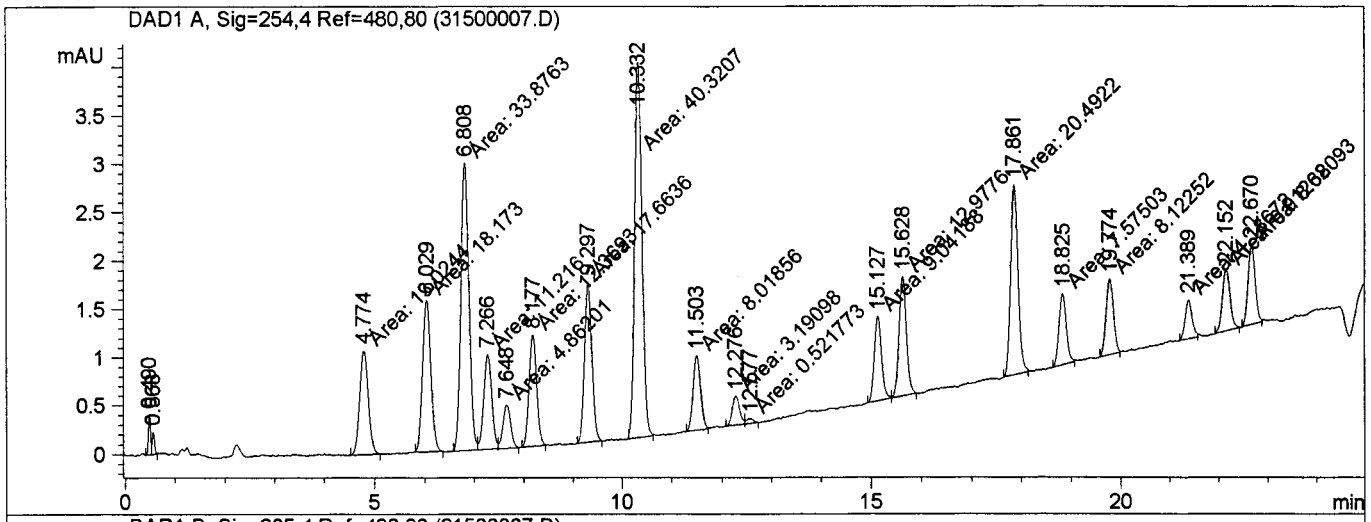
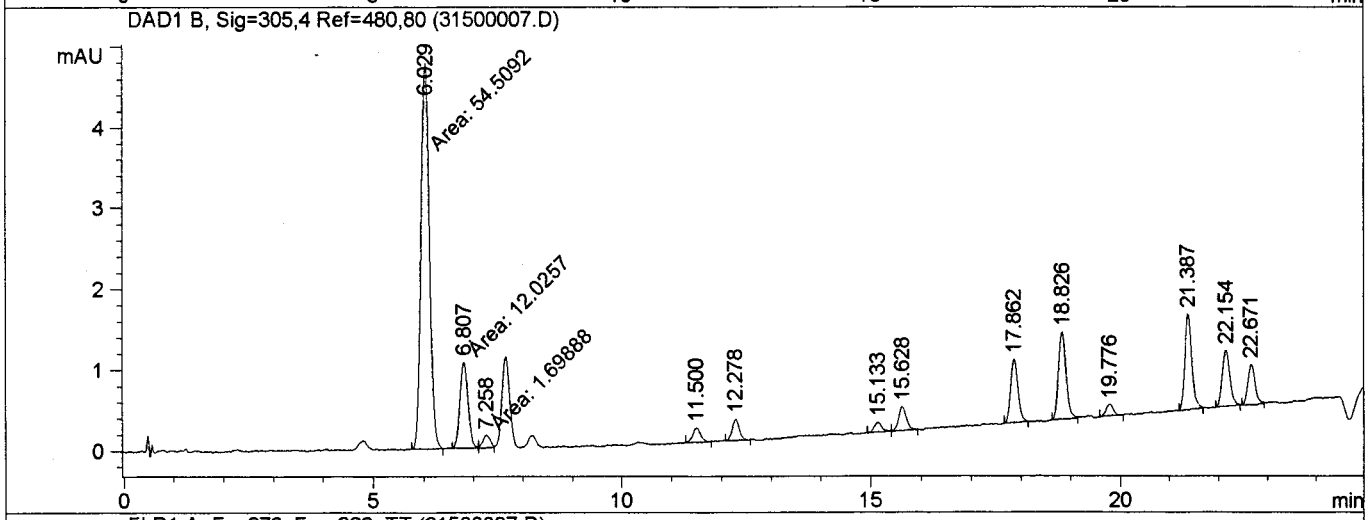
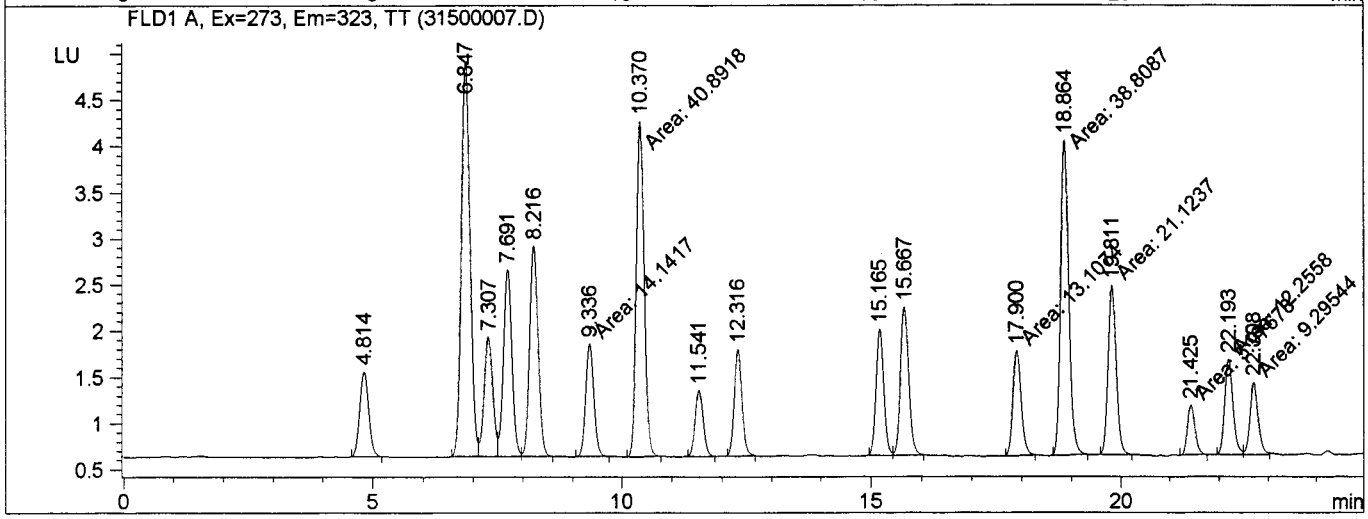
Injection Date	: 11/11/2005 1:58:51 PM	Seq. Line :	7
Sample Name	: ICAL,S1619	Location :	Vial 7
Acq. Operator	: HPL	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 11/14/2005 1:57:45 PM by HPL (modified after loading)		

HPLC04 METHOD 8310







JM 14 NOV 2005

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, November 14, 2005 1:57:34 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.774	MM	13.02439	66.99216	872.53169		Naphthalene
6.029	MM	18.17297	83.55352	1518.41598		Acenaphthylene
6.808	MF	33.87627	96.71765	3276.43283		1-Methylnaphthalene (UV)
7.266	FM	11.21599	73.32296	822.38937		2-Methylnaphthalene
7.648	FM	4.86201	178.86653	869.65035		Acenaphthene
8.177	MM	12.36933	14.06433	173.96632		Fluorene
9.297	MM	17.66359	4.22227	74.58050		Phenanthrene
10.332	MM	40.32065	2.29591	92.57274		Anthracene
11.503	MM	8.01856	22.16832	177.75807		Fluoranthene
12.276	MF	3.19098	32.73741	104.46441		Pyrene
15.127	MF	9.04188	11.28061	101.99799		Benzo(a)anthracene
15.628	FM	12.97757	6.69923	86.93967		Chrysene
17.861	MM	20.49215	8.60298	176.29366		Benzo(b)fluoranthene
18.825	MM	7.57503	12.17796	92.24839		Benzo(k)fluoranthene
19.774	MM	8.12252	12.03393	97.74582		Benzo(a)pyrene
21.389	MF	4.18672	51.13310	214.08023		Dibenz(a,h)anthracene
22.152	MM	6.91262	28.57869	197.55357		Benzo(g,h,i)perylene
22.670	MF	8.38093	10.03182	84.07599		Indeno(1,2,3-cd)pyrene

Totals : 9033.69759

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.029	MM	54.50918	30.31678	1652.54260		Acenaphthylene
6.807	MF	12.02570	272.17570	3273.10290		1-Methylnaphthalene (UV)

Totals : 4925.64550

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.814	BB	11.75017	70.01231	822.65631		Naphthalene
6.847	BV	52.31355	58.35180	3052.58985		1-Methylnaphthalene (F)
7.307	VV	15.91236	53.02456	843.74596		2-Methylnaphthalene
7.691	VV	24.11610	37.94756	915.14708		Acenaphthene
8.216	VB	26.56478	6.03100	160.21208		Fluorene
9.336	MF	14.14166	5.57014	78.77106		Phenanthrene
10.370	MF	40.89180	2.24842	91.94181		Anthracene
11.541	BB	8.04222	22.88283	184.02884		Fluoranthene
12.316	BB	13.19262	8.03945	106.06138		Pyrene
15.165	BV	14.92142	6.27323	93.60547		Benzo(a)anthracene
15.667	VB	18.25678	4.18510	76.40636		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.900	MM	13.10739	13.13570	172.17470		Benzo(b)fluoranthene
18.864	MM	38.80871	2.24549	87.14466		Benzo(k)fluoranthene
19.811	MM	21.12371	4.28178	90.44708		Benzo(a)pyrene
21.425	MM	5.97678	32.79226	195.99214		Dibenz(a,h)anthracene
22.193	MF	12.25580	15.52988	190.33112		Benzo(g,h,i)perylene
22.708	MF	9.29544	10.32540	95.97914		Indeno(1,2,3-cd)pyrene

Totals : 7257.23505

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

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*** End of Report ***

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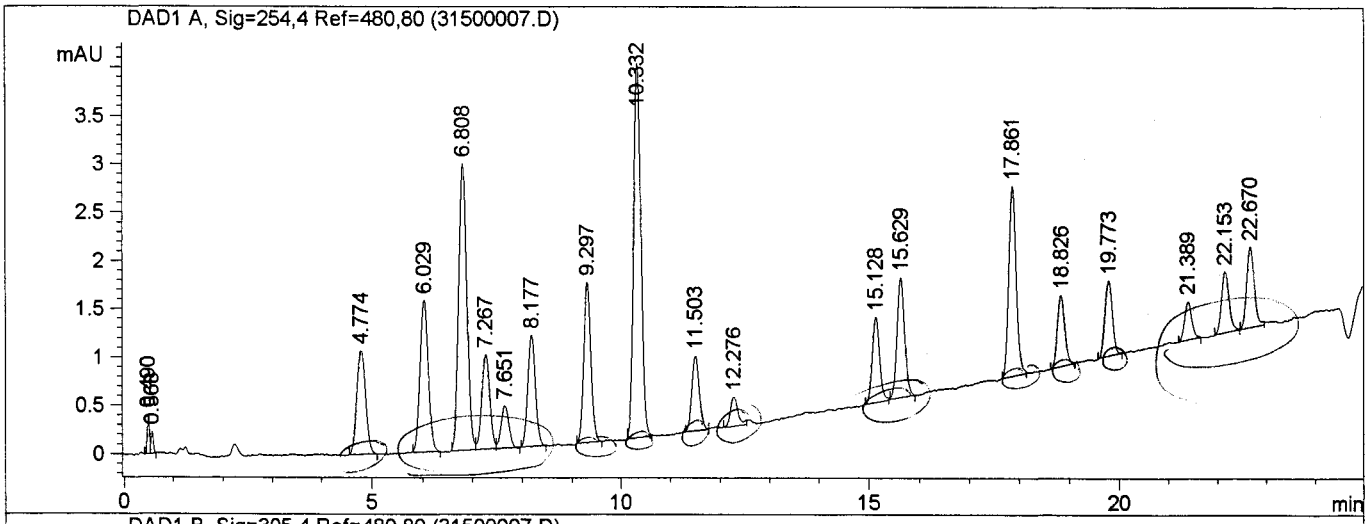
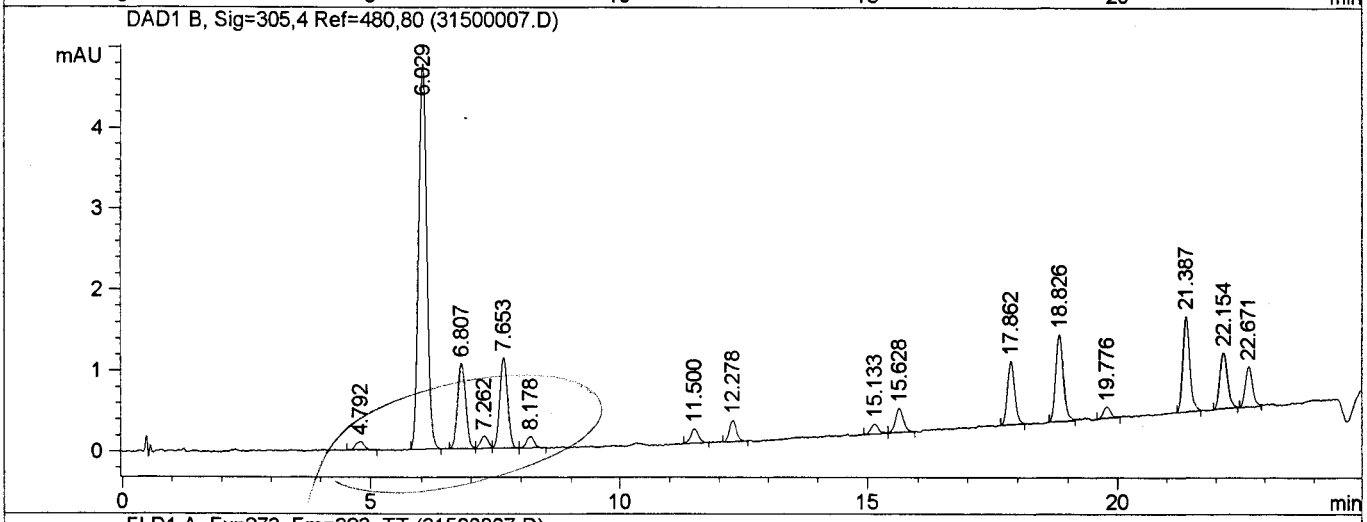
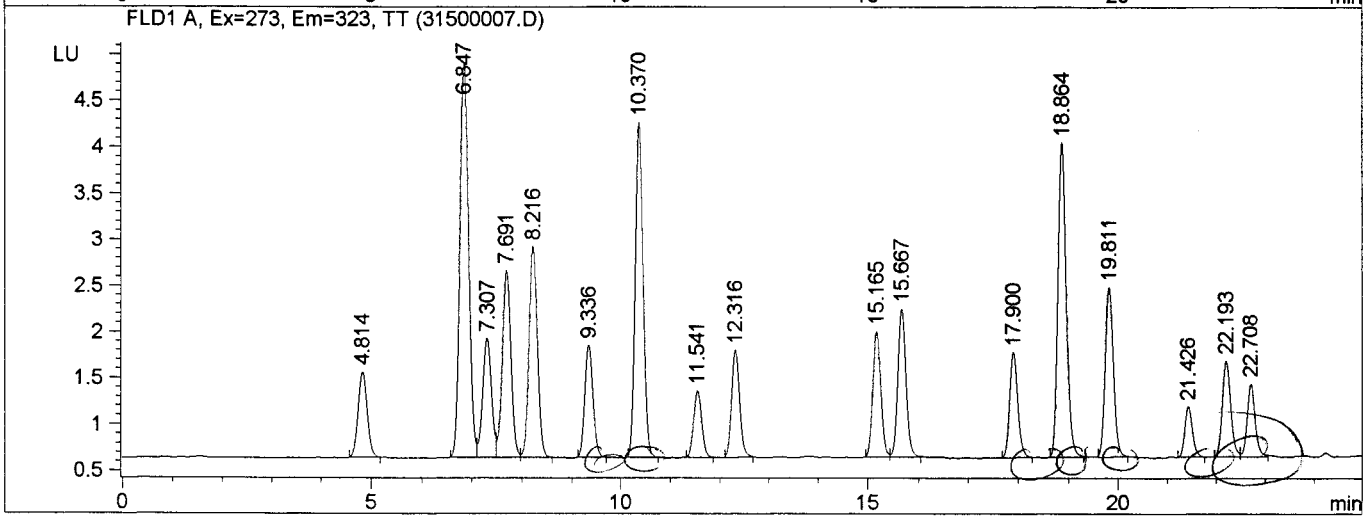
Injection Date	: 11/11/2005 1:58:51 PM	Seq. Line :	7
Sample Name	: ICAL,S1619	Location :	Vial 7
Acq. Operator	: HPL	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Sequence File	: G:\HPLC4\SEQUENCE\111105.S		
Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		

HPLC04 METHOD 8310







External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.774	BB	12.93610	66.34936	858.30216		Naphthalene
6.029	BP	18.10486	82.30406	1490.10338		Acenaphthylene
6.808	BV	33.69632	95.40349	3214.74658		1-Methylnaphthalene (UV)
7.267	VV	11.08442	71.79145	795.76654		2-Methylnaphthalene
7.651	VP	4.74731	176.33443	837.11399		Acenaphthene
8.177	BB	12.32529	13.92603	171.64236		Fluorene
9.297	BP	17.60023	4.17662	73.50957		Phenanthrene
10.332	BB	40.26488	2.30532	92.82361		Anthracene
11.503	BB	8.10875	22.11645	179.33672		Fluoranthene
12.276	BB	3.37576	33.32367	112.49269		Pyrene
15.128	BB	9.04709	11.26978	101.95875		Benzo(a)anthracene
15.629	BP	12.98439	6.65961	86.47095		Chrysene
17.861	BB	20.42125	8.52533	174.09794		Benzo(b)fluoranthene
18.826	PB	7.64667	12.12618	92.72493		Benzo(k)fluoranthene
19.773	PB	8.07857	12.18233	98.41584		Benzo(a)pyrene
21.389	PB	4.19752	50.63165	212.52734		Dibenz(a,h)anthracene
22.153	BB	6.92526	28.95217	200.50147		Benzo(g,h,i)perylene
22.670	BB	8.89846	9.94855	88.52670		Indeno(1,2,3-cd)pyrene

Totals : 8881.06150

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.029	BB	54.47855	29.93431	1630.77756		Acenaphthylene
6.807	BV	12.00962	269.56399	3237.36076		1-Methylnaphthalene (UV)

Totals : 4868.13833

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.814	BB	11.75017	69.75120	819.58829		Naphthalene
6.847	BV	52.31355	58.12799	3040.88144		1-Methylnaphthalene (F)
7.307	VV	15.91236	52.73126	839.07877		2-Methylnaphthalene
7.691	VV	24.11610	38.21651	921.63314		Acenaphthene
8.216	VB	26.56478	5.97242	158.65617		Fluorene
9.336	BB	14.06300	5.54162	77.93185		Phenanthrene
10.370	BB	40.76149	2.27821	92.86343		Anthracene
11.541	BB	8.04222	22.83820	183.66985		Fluoranthene
12.316	BB	13.19262	8.10517	106.92843		Pyrene
15.165	BV	14.92142	6.33121	94.47071		Benzo(a)anthracene
15.667	VB	18.25678	4.15561	75.86804		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.900	BB	13.14865	13.13871	172.75625		Benzo(b)fluoranthene
18.864	BB	38.92237	2.25029	87.58671		Benzo(k)fluoranthene
19.811	BB	21.28449	4.40834	93.82927		Benzo(a)pyrene
21.426	BB	5.97265	32.86253	196.27623		Dibenz(a,h)anthracene
22.193	BV	12.27477	15.74478	193.26353		Benzo(g,h,i)perylene
22.708	VB	9.31294	10.37773	96.64717		Indeno(1,2,3-cd)pyrene

Totals : 7251.92928

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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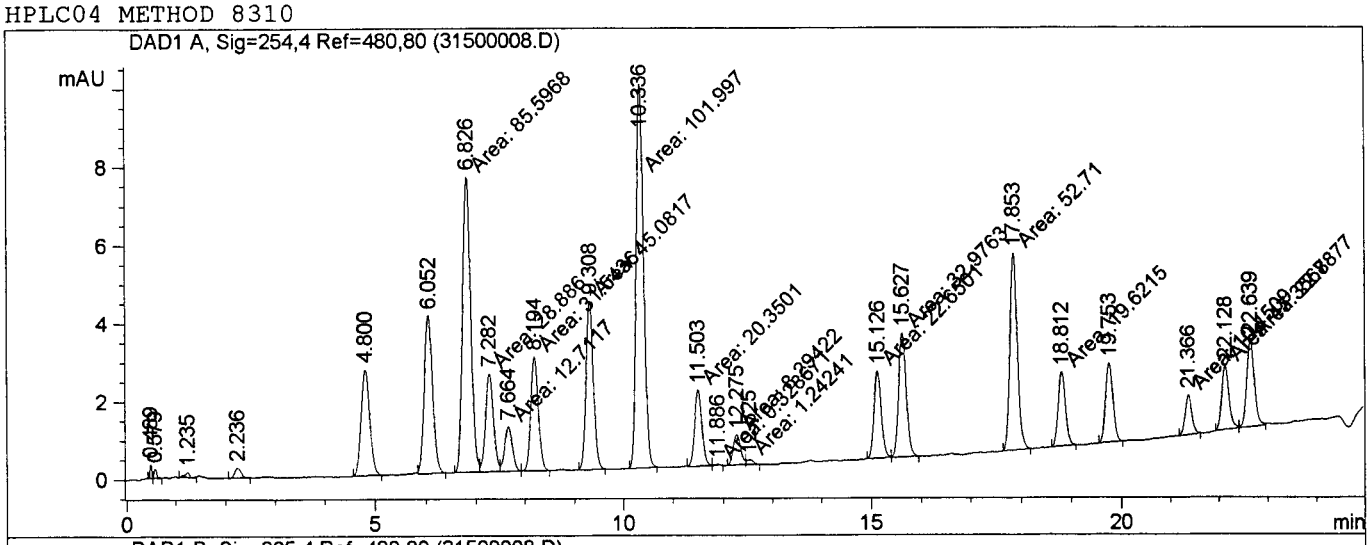
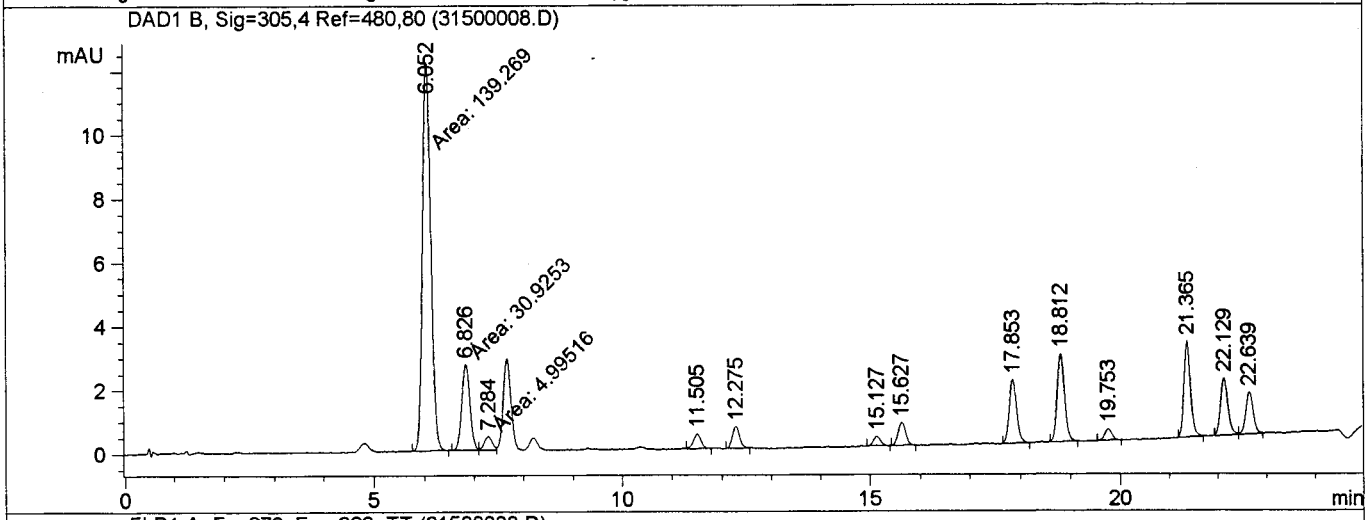
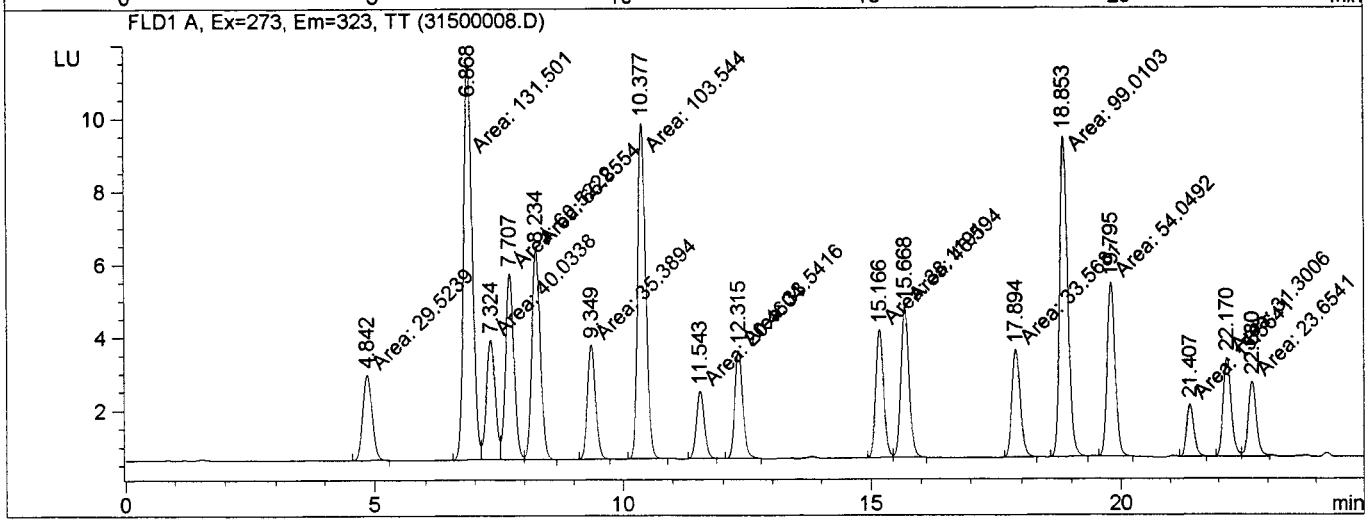
Injection Date	: 11/11/2005 2:30:29 PM	Seq. Line :	8
Sample Name	: ICAL,S1618	Location :	Vial 8
Acq. Operator	: HPL	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 11/14/2005 3:00:13 PM by HPL (modified after loading)		

HPLC04 METHOD 8310







Cjm 14 NOV 2005

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, November 14, 2005 3:00:10 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.800	BB	32.45070	72.70009	2359.16858		Naphthalene
6.052	BB	46.41474	98.73175	4582.60878		Acenaphthylene
6.826	MF	85.59682	110.17545	9430.66834		1-Methylnaphthalene (UV)
7.282	MF	28.88600	81.58671	2356.71340		2-Methylnaphthalene
7.664	MF	12.71169	197.23768	2507.22512		Acenaphthene
8.194	FM	31.54358	15.18195	478.89303		Fluorene
9.308	MM	45.08168	5.12333	230.96823		Phenanthrene
10.336	MM	101.99684	2.52989	258.04046		Anthracene
11.503	MF	20.35011	23.65285	481.33803		Fluoranthene
12.275	MF	8.29422	32.00940	265.49301		Pyrene
15.126	MF	22.65013	11.42245	258.72010		Benzo(a)anthracene
15.627	FM	32.97633	7.19471	237.25512		Chrysene
17.853	MM	52.71000	9.03563	476.26797		Benzo(b)fluoranthene
18.812	MM	19.62153	12.32258	241.78789		Benzo(k)fluoranthene
19.753	BB	21.05889	12.35024	260.08227		Benzo(a)pyrene
21.366	MM	10.15091	48.21422	489.41796		Dibenz(a,h)anthracene
22.128	MF	17.35672	29.29287	508.42823		Benzo(g,h,i)perylene
22.639	MF	22.88771	10.53760	241.18165		Indeno(1,2,3-cd)pyrene

Totals : 2.56643e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.052	MF	139.26938	33.52302	4668.72991		Acenaphthylene
6.826	MF	30.92526	307.37816	9505.74842		1-Methylnaphthalene (UV)

Totals : 1.41745e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.842	MM	29.52386	82.28063	2429.24189		Naphthalene
6.868	MF	131.50134	75.18472	9886.89193		1-Methylnaphthalene (F)
7.324	MF	40.03383	61.08019	2445.27424		2-Methylnaphthalene
7.707	MF	60.52220	43.21715	2615.59688		Acenaphthene
8.234	FM	66.85545	7.17540	479.71428		Fluorene
9.349	MF	35.38944	6.86115	242.81233		Phenanthrene
10.377	MF	103.54391	2.64167	273.52895		Anthracene
11.543	MF	20.46036	24.34715	498.15134		Fluoranthene
12.315	MM	33.54156	8.19409	274.84250		Pyrene
15.166	MF	38.11910	6.98704	266.33956		Benzo(a)anthracene
15.668	FM	46.59403	5.09200	237.25667		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.894	MM	33.56808	14.71074	493.81120		Benzo(b)fluoranthene
18.853	MM	99.01035	2.53583	251.07334		Benzo(k)fluoranthene
19.795	MM	54.04917	4.96313	268.25313		Benzo(a)pyrene
21.407	FM	15.56407	32.54079	506.46715		Dibenz(a,h)anthracene
22.170	MF	31.30061	16.54396	517.83608		Benzo(g,h,i)perylene
22.680	MF	23.65410	10.70895	253.31063		Indeno(1,2,3-cd)pyrene

Totals : 2.19404e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

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*** End of Report ***

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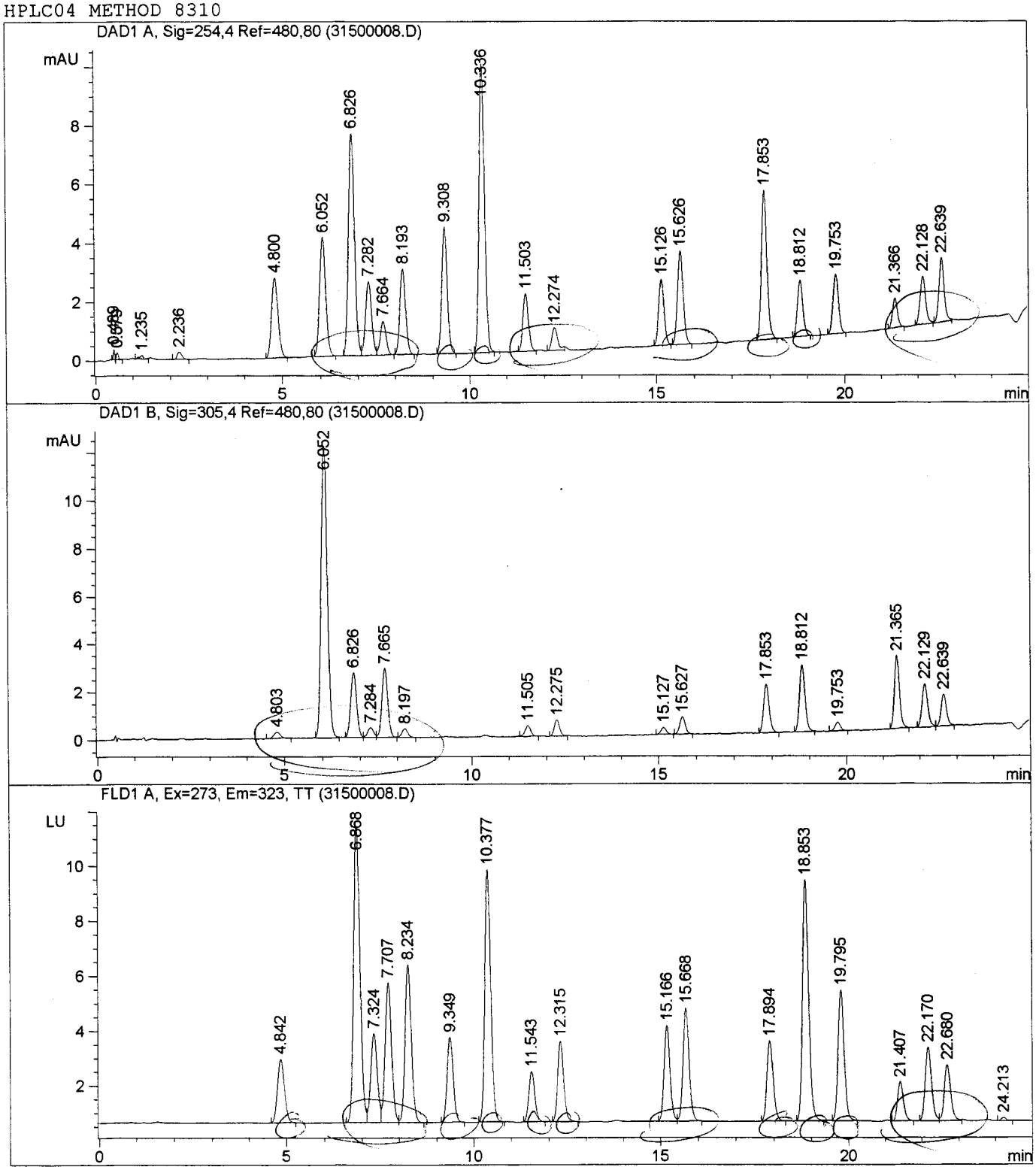
Injection Date : 11/11/2005 2:30:29 PM
Sample Name : ICAL,S1618
Acq. Operator : HPL
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\111105.S
Method : G:\HPLC4\METHODS\8310-279.M
Last changed : 10/6/2005 3:43:10 PM by HPL
HPLC04 METHOD 8310

Seq. Line : 8
Location : Vial 8
Inj : 1
Inj Volume : 10 µl



External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.800	BB	32.45070	72.13379	2340.79149		Naphthalene
6.052	BB	46.41474	97.47305	4524.18642		Acenaphthylene
6.826	BV	85.48909	109.01084	9319.23762		1-Methylnaphthalene (UV)
7.282	VV	28.86073	80.36683	2319.44495		2-Methylnaphthalene
7.664	VB	12.75819	195.54302	2494.77487		Acenaphthene
8.193	BP	31.35541	15.05241	471.97439		Fluorene
9.308	BB	44.95625	5.07354	228.08720		Phenanthrene
10.336	BB	101.81434	2.54015	258.62379		Anthracene
11.503	BB	20.25716	23.52177	476.48430		Fluoranthene
12.274	BB	8.86513	32.30667	286.40285		Pyrene
15.126	BB	22.58729	11.44855	258.59180		Benzo(a)anthracene
15.626	BB	32.85527	7.12145	233.97726		Chrysene
17.853	BB	52.60531	8.95539	471.10131		Benzo(b)fluoranthene
18.812	BB	19.49981	12.23636	238.60663		Benzo(k)fluoranthene
19.753	BB	21.05889	12.42719	261.70278		Benzo(a)pyrene
21.366	BB	9.82602	48.25325	474.13755		Dibenz(a,h)anthracene
22.128	BB	17.33887	29.45711	510.75295		Benzo(g,h,i)perylene
22.639	BB	22.90755	10.36379	237.40916		Indeno(1,2,3-cd)pyrene

Totals : 2.54063e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.052	BB	139.20410	33.13364	4612.33824		Acenaphthylene
6.826	BV	30.88276	304.65438	9408.56827		1-Methylnaphthalene (UV)

Totals : 1.40209e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.842	BB	29.54389	82.09246	2425.33050		Naphthalene
6.868	BV	131.35318	75.02275	9854.47696		1-Methylnaphthalene (F)
7.324	VV	39.92328	60.83664	2428.79830		2-Methylnaphthalene
7.707	VV	60.68877	43.53636	2642.16794		Acenaphthene
8.234	VP	66.88683	7.12841	476.79680		Fluorene
9.349	BB	35.33434	6.85493	242.21443		Phenanthrene
10.377	BB	103.36371	2.67632	276.63413		Anthracene
11.543	BB	20.42098	24.28460	495.91516		Fluoranthene
12.315	BP	33.42951	8.25757	276.04666		Pyrene
15.166	BV	38.16887	7.04747	268.99399		Benzo(a)anthracene
15.668	VB	46.75665	5.06420	236.78521		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.894	BB	33.65839	14.68903	494.40905		Benzo(b)fluoranthene
18.853	BB	99.28812	2.53778	251.97150		Benzo(k)fluoranthene
19.795	BB	54.40104	5.04849	274.64337		Benzo(a)pyrene
21.407	VB	15.67480	32.52783	509.86704		Dibenz(a,h)anthracene
22.170	BV	31.43434	16.70147	524.99978		Benzo(g,h,i)perylene
22.680	VB	23.90936	10.74014	256.78992		Indeno(1,2,3-cd)pyrene

Totals : 2.19368e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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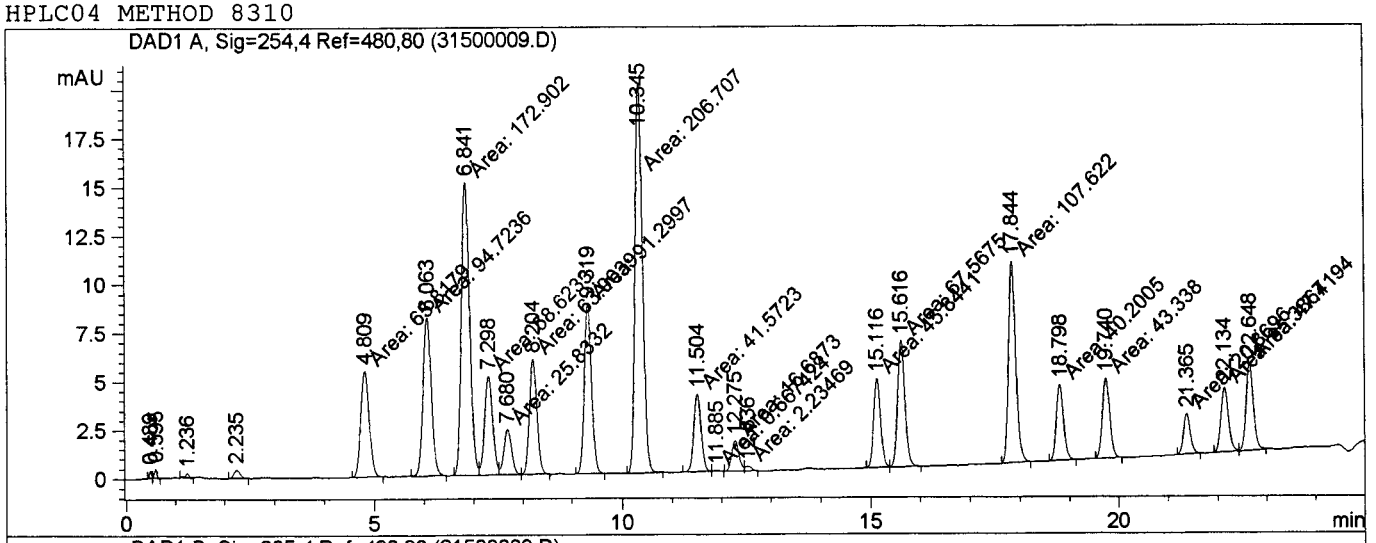
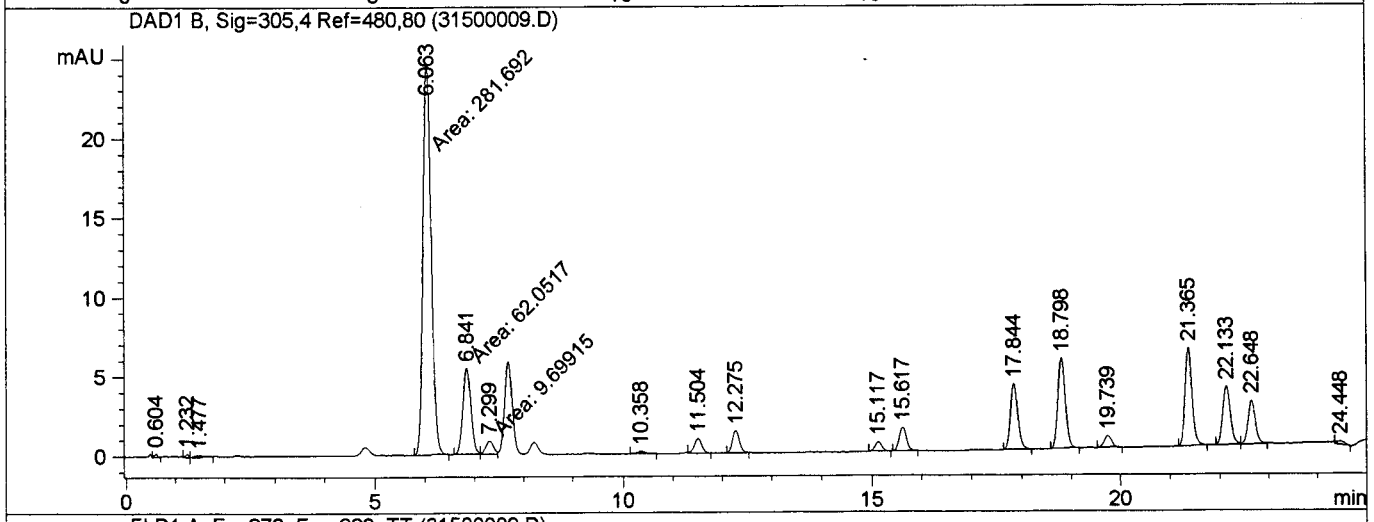
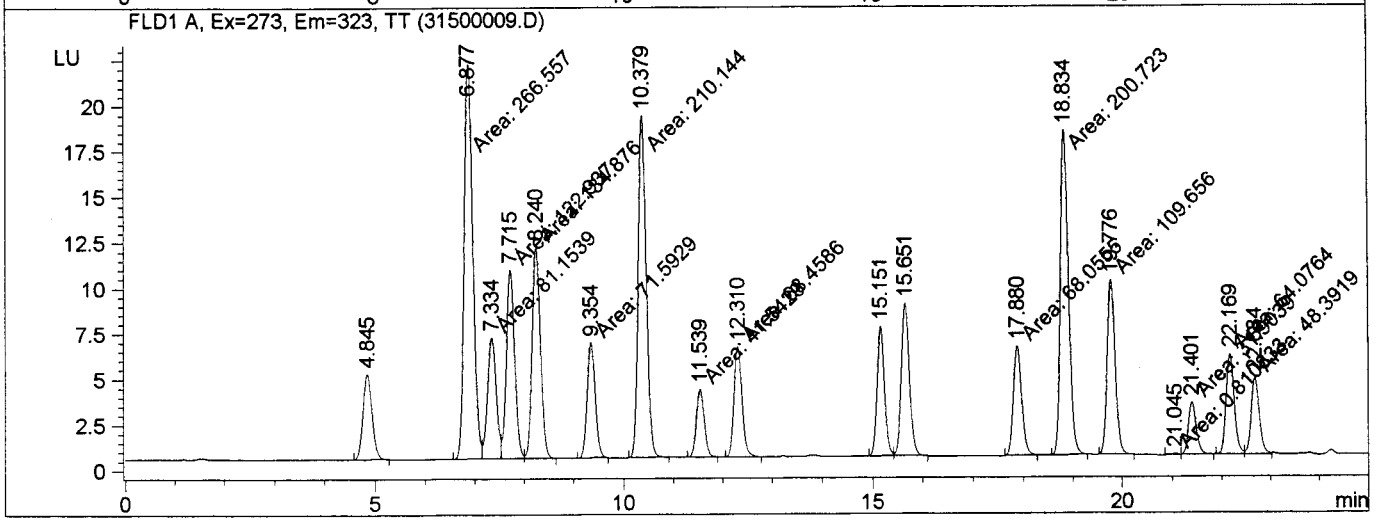
Injection Date	: 11/11/2005 3:02:07 PM	Seq. Line :	9
Sample Name	: ICAL,S1617	Location :	Vial 9
Acq. Operator	: HPL	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 11/14/2005 3:07:01 PM by HPL (modified after loading)		

HPLC04 METHOD 8310







14NOV2005

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, November 14, 2005 3:06:58 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.809	MM	65.81794	74.68990	4915.93565		Naphthalene
6.063	FM	94.72365	103.57941	9811.41968		Acenaphthylene
6.841	MF	172.90190	114.52772	1.98021e4		1-Methylnaphthalene (UV)
7.298	MF	58.62328	83.99525	4924.07679		2-Methylnaphthalene
7.680	FM	25.83322	201.74861	5211.81622		Acenaphthene
8.204	FM	63.90393	15.52644	992.20051		Fluorene
9.319	MM	91.29965	5.41015	493.94477		Phenanthrene
10.345	MF	206.70654	2.60142	537.73146		Anthracene
11.504	MF	41.57235	24.11833	1002.65548		Fluoranthene
12.275	MF	16.68730	31.70947	529.14556		Pyrene
15.116	MF	45.84408	11.45890	525.32273		Benzo(a)anthracene
15.616	FM	67.56745	7.34524	496.29920		Chrysene
17.844	MM	107.62183	9.16500	986.35375		Benzo(b)fluoranthene
18.798	MM	40.20050	12.34819	496.40329		Benzo(k)fluoranthene
19.740	MM	43.33799	12.39316	537.09448		Benzo(a)pyrene
21.365	MM	20.86957	47.48779	991.04990		Dibenz(a,h)anthracene
22.134	MF	35.38666	29.52447	1044.77234		Benzo(g,h,i)perylene
22.648	FM	47.41936	10.61514	503.36312		Indeno(1,2,3-cd)pyrene

Totals : 5.38016e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.063	MM	281.69171	34.54217	9730.24318		Acenaphthylene
6.841	MF	62.05173	318.05797	1.97360e4		1-Methylnaphthalene (UV)

Totals : 2.94663e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.845	BB	59.72798	86.28175	5153.43422		Naphthalene
6.877	MF	266.55655	80.64870	2.14974e4		1-Methylnaphthalene (F)
7.334	MF	81.15388	63.66615	5166.75506		2-Methylnaphthalene
7.715	MF	122.93717	44.89577	5519.35887		Acenaphthene
8.240	FM	134.87556	7.55029	1018.34974		Fluorene
9.354	MM	71.59289	7.28517	521.56619		Phenanthrene
10.379	MF	210.14381	2.76086	580.17705		Anthracene
11.539	MF	41.54289	24.76682	1028.88537		Fluoranthene
12.310	MM	68.45862	8.20594	561.76725		Pyrene
15.151	BV	77.56648	7.19253	557.89922		Benzo(a)anthracene
15.651	VB	94.90897	5.38216	510.81504		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.880	MM	68.05548	15.18983	1033.75095		Benzo(b)fluoranthene
18.834	MM	200.72287	2.62546	526.98894		Benzo(k)fluoranthene
19.776	MM	109.65622	5.16005	565.83140		Benzo(a)pyrene
21.401	FM	31.90387	32.38865	1033.32317		Dibenz(a,h)anthracene
22.169	MF	64.07645	16.84718	1079.50768		Benzo(g,h,i)perylene
22.684	MF	48.39191	10.82100	523.64893		Indeno(1,2,3-cd)pyrene

Totals : 4.68795e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

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*** End of Report ***

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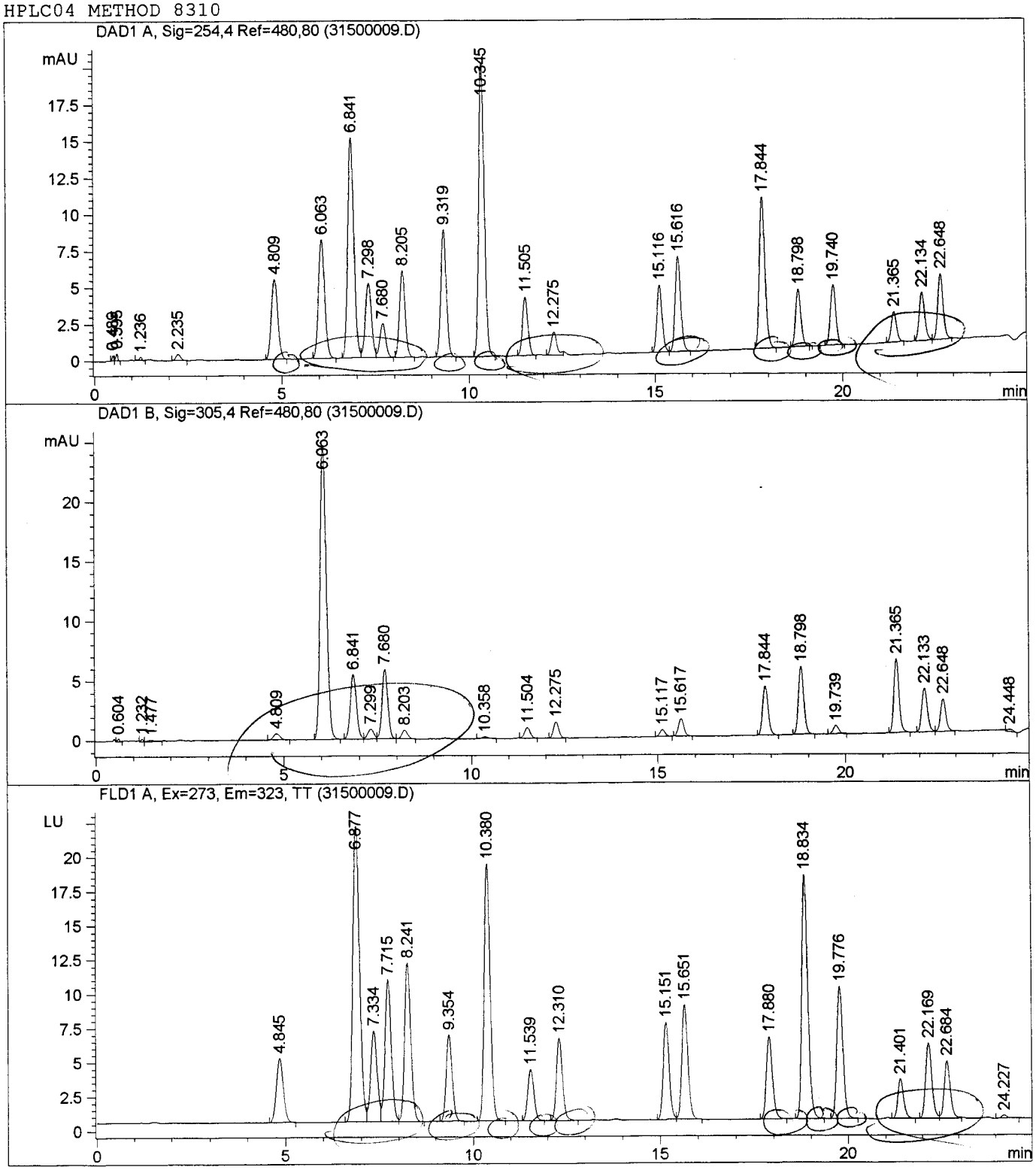
Injection Date	: 11/11/2005 3:02:07 PM	Seq. Line :	9
Sample Name	: ICAL,S1617	Location :	Vial 9
Acq. Operator	: HPL	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Sequence File	: G:\HPLC4\SEQUENCE\111105.S		
Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		

HPLC04 METHOD 8310



External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.809	BB	65.71278	74.07469	4867.65345		Naphthalene
6.063	BP	94.12169	102.39011	9637.13016		Acenaphthylene
6.841	BV	172.73824	113.48241	1.96028e4		1-Methylnaphthalene (UV)
7.298	VV	58.57263	83.07927	4866.17115		2-Methylnaphthalene
7.680	VB	25.83042	201.30380	5199.76231		Acenaphthene
8.205	BP	63.65963	15.42261	981.79736		Fluorene
9.319	BB	90.98497	5.36546	488.17656		Phenanthrene
10.345	BB	206.27675	2.61795	540.02164		Anthracene
11.505	BB	41.39744	24.00079	993.57129		Fluoranthene
12.275	BB	17.62935	31.99576	564.06441		Pyrene
15.116	BV	45.72667	11.50900	526.26804		Benzo(a)anthracene
15.616	VB	67.40410	7.27614	490.44141		Chrysene
17.844	BB	107.38456	9.09460	976.61920		Benzo(b)fluoranthene
18.798	BP	39.85841	12.27266	489.16867		Benzo(k)fluoranthene
19.740	BB	43.09857	12.50512	538.95278		Benzo(a)pyrene
21.365	BB	20.85756	47.31513	986.87813		Dibenz(a,h)anthracene
22.134	BV	35.32772	29.62809	1046.69313		Benzo(g,h,i)perylene
22.648	VB	47.31700	10.49986	496.82201		Indeno(1,2,3-cd)pyrene

Totals : 5.32929e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.063	BB	282.09546	34.17567	9640.80043		Acenaphthylene
6.841	BV	62.37429	315.92794	1.97058e4		1-Methylnaphthalene (UV)

Totals : 2.93466e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.845	BB	59.72798	86.21093	5149.20472		Naphthalene
6.877	BV	266.22534	80.68768	2.14811e4		1-Methylnaphthalene (F)
7.334	VV	81.04146	63.56202	5151.15865		2-Methylnaphthalene
7.715	VV	123.21004	45.31641	5583.43619		Acenaphthene
8.241	VP	134.90443	7.51239	1013.45508		Fluorene
9.354	BB	71.58997	7.29465	522.22361		Phenanthrene
10.380	BB	209.99489	2.80794	589.65317		Anthracene
11.539	BB	41.48593	24.76174	1027.26370		Fluoranthene
12.310	BB	68.45389	8.30841	568.74285		Pyrene
15.151	BV	77.56648	7.28098	564.75992		Benzo(a)anthracene
15.651	VB	94.90897	5.35950	508.66493		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.880	BB	68.38180	15.19372	1038.97377		Benzo(b)fluoranthene
18.834	BB	201.39085	2.63176	530.01225		Benzo(k)fluoranthene
19.776	BB	110.50912	5.25739	580.98965		Benzo(a)pyrene
21.401	VB	31.95950	32.42284	1036.21768		Dibenz(a,h)anthracene
22.169	BV	64.03069	17.01349	1089.38566		Benzo(g,h,i)perylene
22.684	VB	48.75404	10.85798	529.37037		Indeno(1,2,3-cd)pyrene

Totals : 4.69646e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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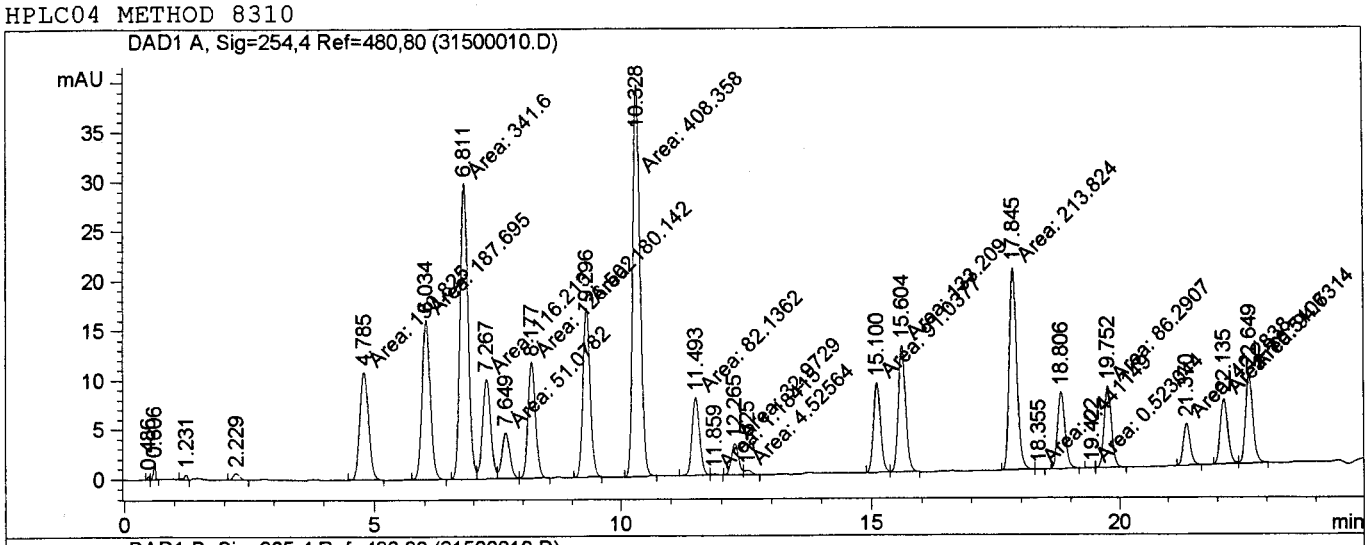
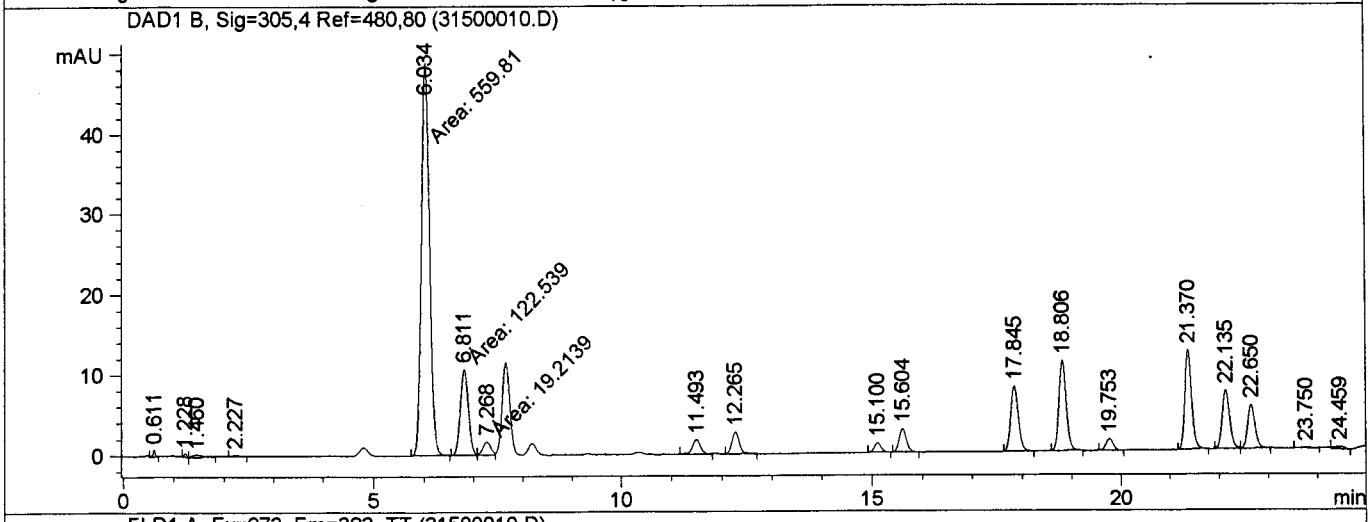
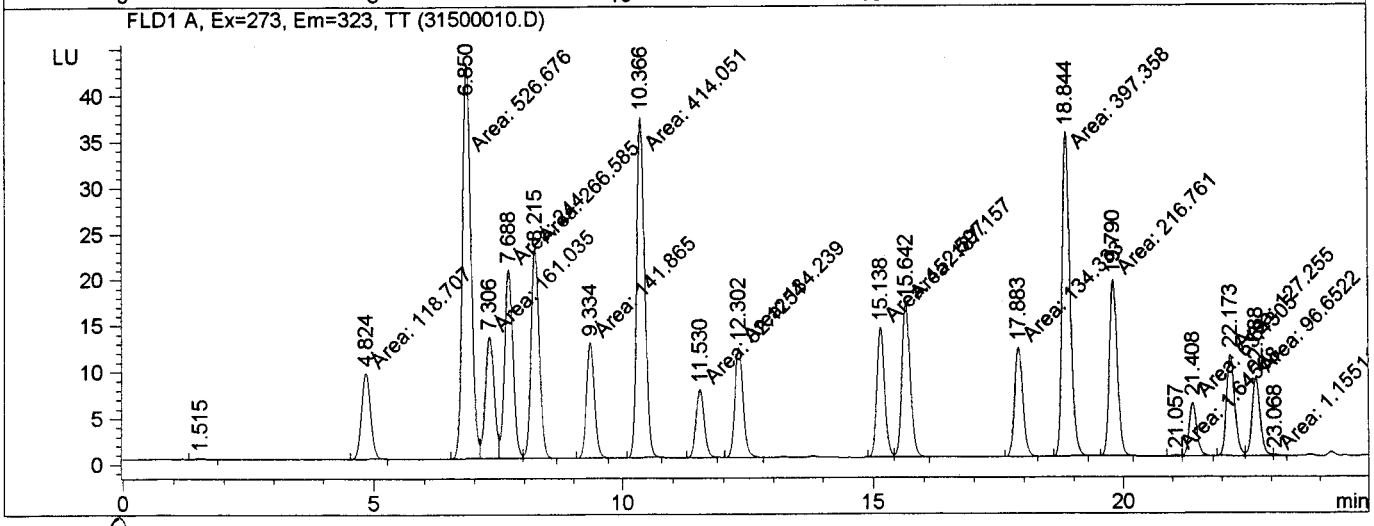
Injection Date	: 11/11/2005 3:33:43 PM	Seq. Line	: 10
Sample Name	: ICAL,S1616	Location	: Vial 10
Acq. Operator	: HPL	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 11/14/2005 3:14:51 PM by HPL (modified after loading)		

HPLC04 METHOD 8310







CJm 14NOV2005

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, November 14, 2005 3:14:48 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.785	MM	130.82538	75.54302	9882.94420		Naphthalene
6.034	FM	187.69478	105.70363	1.98400e4		Acenaphthylene
6.811	MF	341.59979	116.48709	3.97920e4		1-Methylnaphthalene (UV)
7.267	MF	116.21339	85.00920	9879.20684		2-Methylnaphthalene
7.649	FM	51.07816	203.87406	1.04135e4		Acenaphthene
8.177	FM	126.50168	15.68515	1984.19809		Fluorene
9.296	MM	180.14212	5.54173	998.29810		Phenanthrene
10.328	MM	408.35837	2.63616	1076.49807		Anthracene
11.493	MF	82.13621	24.31602	1997.22570		Fluoranthene
12.265	MF	32.97289	31.58154	1041.33440		Pyrene
15.100	MF	91.03773	11.47857	1044.98346		Benzo(a)anthracene
15.604	FM	133.20935	7.39809	985.49501		Chrysene
17.845	MF	213.82385	9.21996	1971.44655		Benzo(b)fluoranthene
18.806	BB	80.29658	12.34046	990.89709		Benzo(k)fluoranthene
19.752	FM	86.29072	12.40943	1070.81845		Benzo(a)pyrene
21.370	MM	42.28377	47.03858	1988.96843		Dibenz(a,h)anthracene
22.135	MF	70.51058	29.55885	2084.21172		Benzo(g,h,i)perylene
22.649	FM	94.73141	10.61609	1005.67688		Indeno(1,2,3-cd)pyrene

Totals : 1.08048e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.034	MM	559.80969	34.99729	1.95918e4		Acenaphthylene
6.811	MF	122.53880	323.25111	3.96108e4		1-Methylnaphthalene (UV)

Totals : 5.92026e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.824	MM	118.70710	88.18639	1.04684e4		Naphthalene
6.850	MF	526.67639	83.23390	4.38373e4		1-Methylnaphthalene (F)
7.306	MF	161.03452	64.87271	1.04467e4		2-Methylnaphthalene
7.688	MF	243.99982	45.76548	1.11668e4		Acenaphthene
8.215	FM	266.58530	7.72147	2058.43018		Fluorene
9.334	MM	141.86461	7.48991	1062.55291		Phenanthrene
10.366	MM	414.05106	2.82175	1168.34684		Anthracene
11.530	MF	82.12543	24.96775	2050.48763		Fluoranthene
12.302	FM	134.23868	8.22917	1104.67311		Pyrene
15.138	MF	152.59743	7.29908	1113.82089		Benzo(a)anthracene
15.642	FM	187.15659	5.51415	1032.00974		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.883	MM	134.33257	15.41683	2070.98167		Benzo(b)fluoranthene
18.844	MM	397.35812	2.66866	1060.41316		Benzo(k)fluoranthene
19.790	MM	216.76112	5.26196	1140.58923		Benzo(a)pyrene
21.408	FM	63.43048	32.29165	2048.27502		Dibenz(a,h)anthracene
22.173	MF	127.25459	16.99433	2162.60667		Benzo(g,h,i)perylene
22.688	FM	96.65224	10.86816	1050.43188		Indeno(1,2,3-cd)pyrene

Totals : 9.50428e4

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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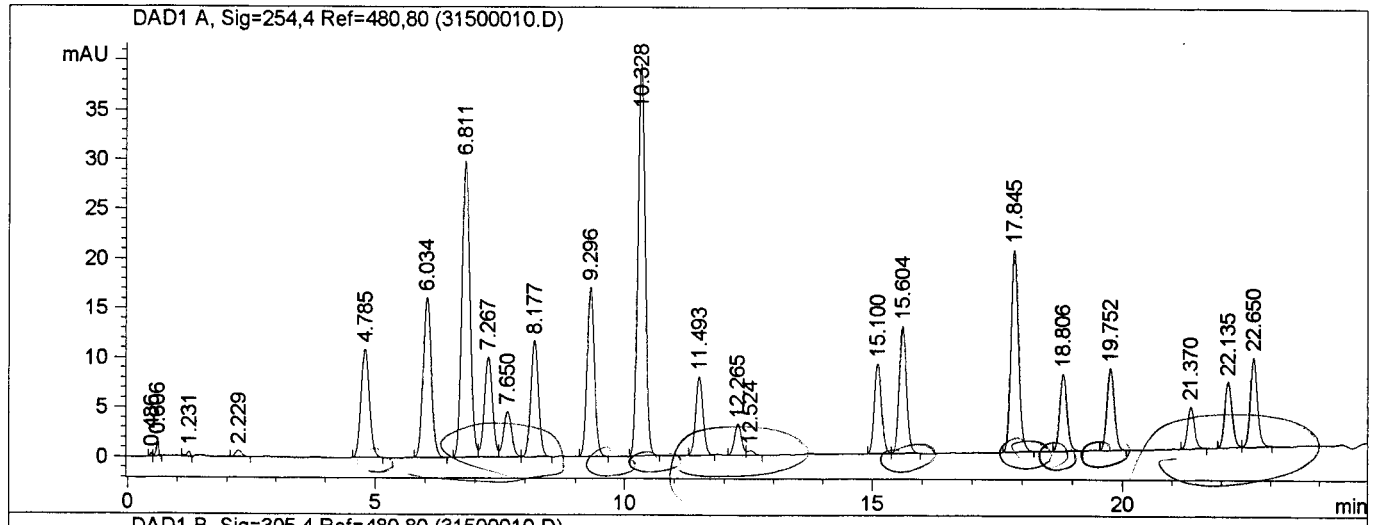
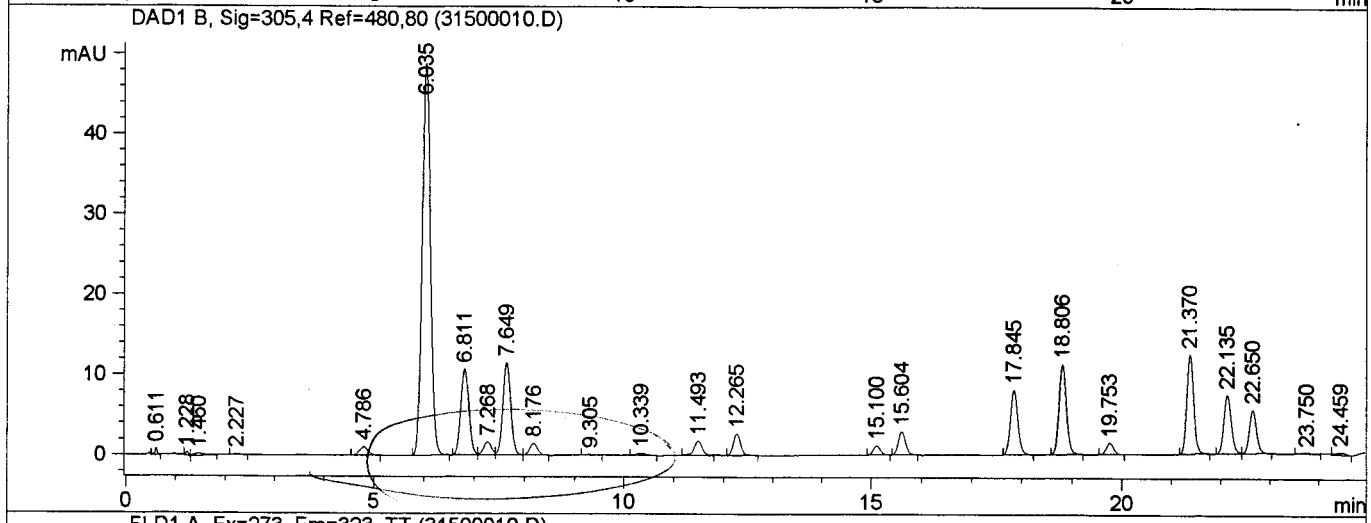
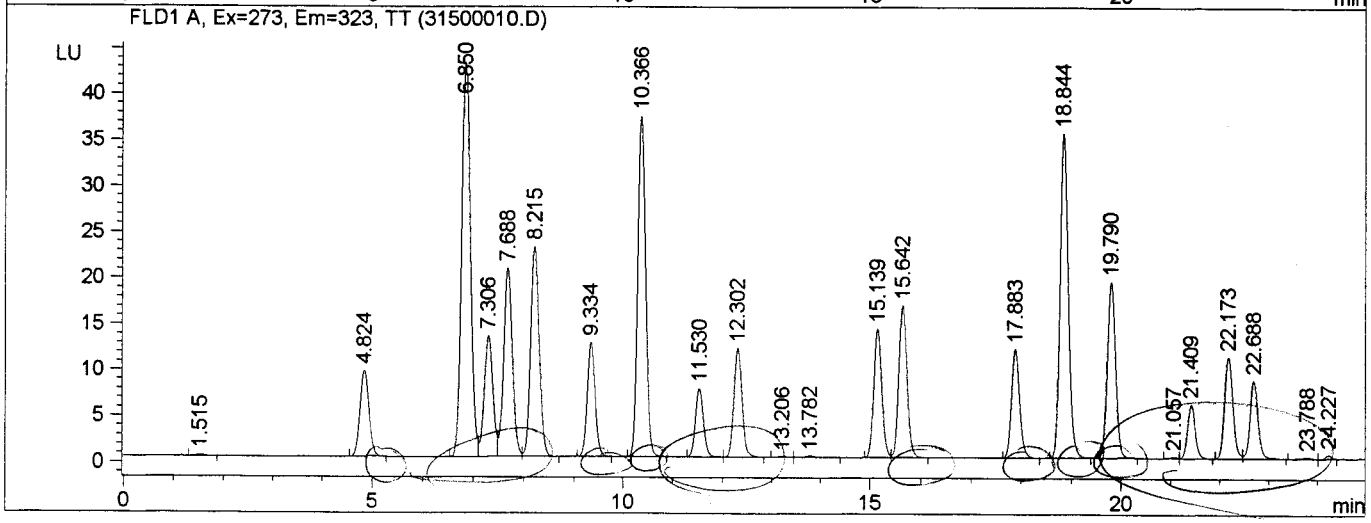
Injection Date	: 11/11/2005 3:33:43 PM	Seq. Line :	10
Sample Name	: ICAL,S1616	Location :	Vial 10
Acq. Operator	: HPL	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Sequence File	: G:\HPLC4\SEQUENCE\111105.S		
Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		

HPLC04 METHOD 8310







External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.785	BB	130.69728	75.01619	9804.41228		Naphthalene
6.034	BP	186.95413	104.76555	1.95864e4		Acenaphthylene
6.811	BV	341.22687	115.64580	3.94615e4		1-Methylnaphthalene (UV)
7.267	VV	116.13739	84.38521	9800.27753		2-Methylnaphthalene
7.650	VV	51.12721	204.08565	1.04343e4		Acenaphthene
8.177	VP	126.33327	15.60087	1970.90832		Fluorene
9.296	BB	179.98192	5.50645	991.06175		Phenanthrene
10.328	BB	407.93036	2.65543	1083.23037		Anthracene
11.493	BB	81.93497	24.22788	1985.11100		Fluoranthene
12.265	BV	33.02501	31.84914	1051.81825		Pyrene
15.100	BV	90.69476	11.53825	1046.45885		Benzo(a)anthracene
15.604	VB	133.16466	7.34878	978.59770		Chrysene
17.845	BB	213.27332	9.16097	1953.78962		Benzo(b)fluoranthene
18.806	BB	80.29658	12.29017	986.85871		Benzo(k)fluoranthene
19.752	BB	86.13814	12.54233	1080.37258		Benzo(a)pyrene
21.370	BB	42.19322	46.89259	1978.54929		Dibenz(a,h)anthracene
22.135	BV	70.71999	29.71057	2101.13127		Benzo(g,h,i)perylene
22.650	VB	94.98906	10.56395	1003.45958		Indeno(1,2,3-cd)pyrene

Totals : 1.07298e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.035	BB	560.25836	34.67967	1.94296e4		Acenaphthylene
6.811	BV	122.83937	321.36984	3.94769e4		1-Methylnaphthalene (UV)

Totals : 5.89064e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.824	BB	118.72701	88.21412	1.04734e4		Naphthalene
6.850	BV	526.30212	83.41401	4.39010e4		1-Methylnaphthalene (F)
7.306	VV	161.37877	64.87933	1.04701e4		2-Methylnaphthalene
7.688	VV	244.91475	46.17503	1.13089e4		Acenaphthene
8.215	VB	268.10632	7.69999	2064.41684		Fluorene
9.334	BB	143.65472	7.50963	1078.79354		Phenanthrene
10.366	BB	416.53885	2.87121	1195.96919		Anthracene
11.530	BV	84.56513	24.99737	2113.90598		Fluoranthene
12.302	VB	136.60251	8.33261	1138.25589		Pyrene
15.139	BV	152.71040	7.39230	1128.88063		Benzo(a)anthracene
15.642	VB	187.57530	5.50116	1031.88160		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.883	BB	134.70059	15.43458	2079.04669		Benzo(b)fluoranthene
18.844	BB	398.44977	2.67696	1066.63262		Benzo(k)fluoranthene
19.790	BB	217.90498	5.35721	1167.36365		Benzo(a)pyrene
21.409	VB	63.51436	32.37264	2056.12727		Dibenz(a,h)anthracene
22.173	BV	127.26810	17.16300	2184.30307		Benzo(g,h,i)perylene
22.688	VB	98.13403	10.91504	1071.13686		Indeno(1,2,3-cd)pyrene

Totals : 9.55302e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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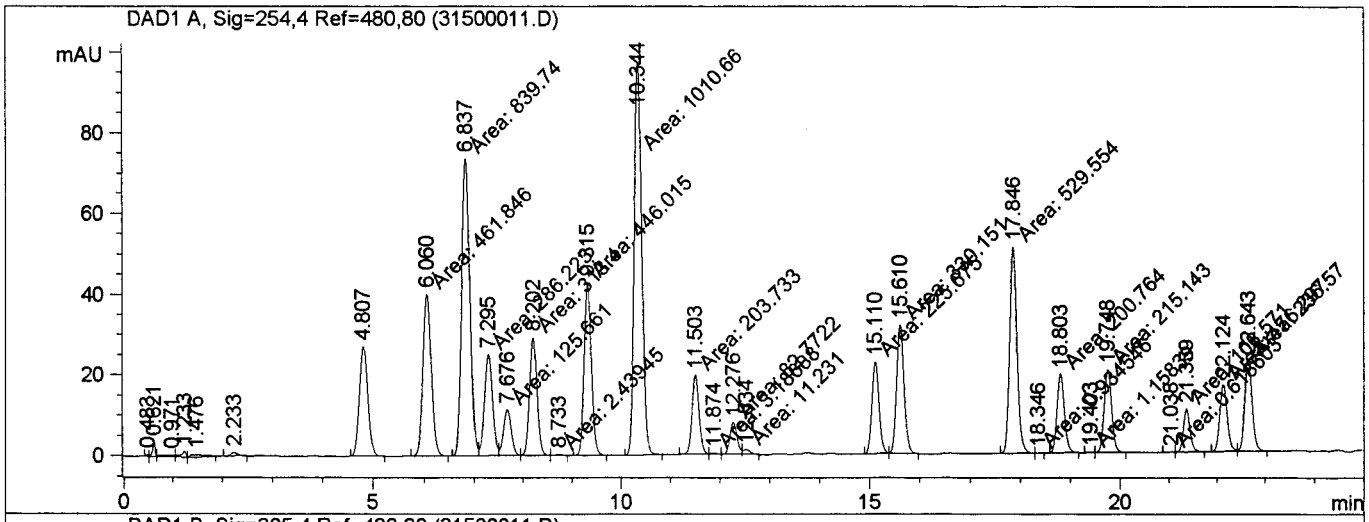
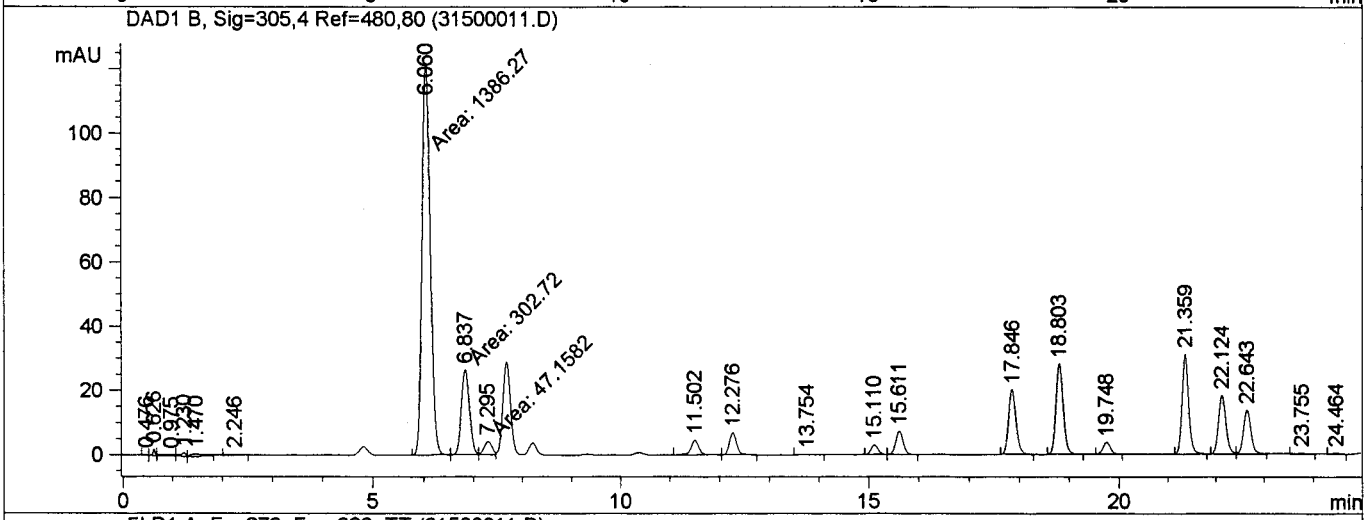
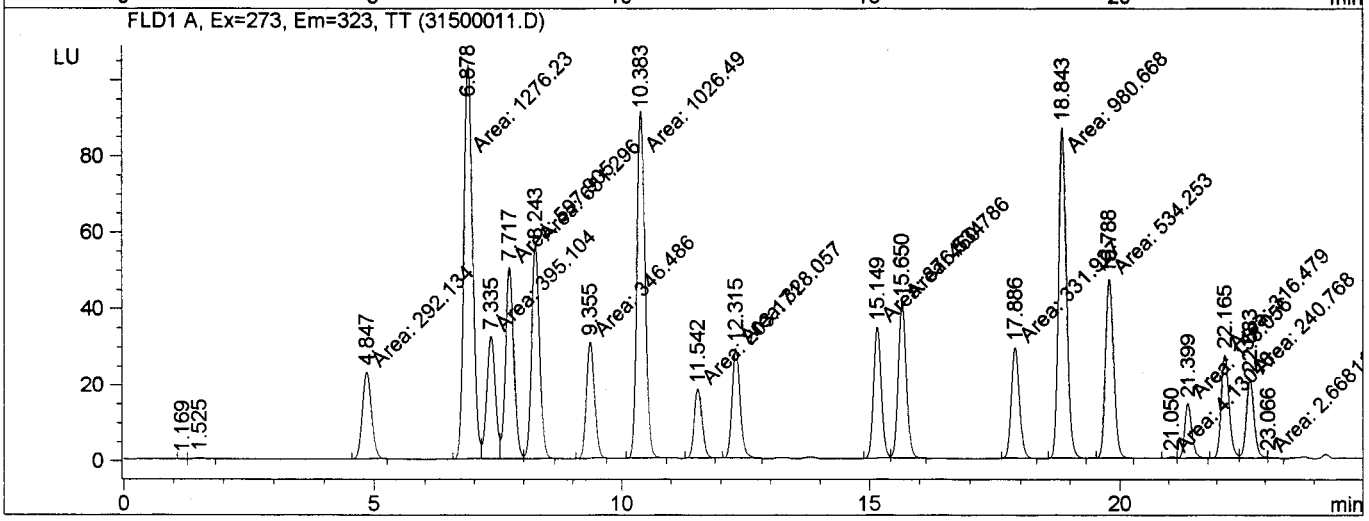
Injection Date	: 11/11/2005 4:05:21 PM	Seq. Line	: 11
Sample Name	: ICAL,S1615	Location	: Vial 11
Acq. Operator	: HPL	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 11/14/2005 3:24:02 PM by HPL (modified after loading)		

HPLC04 METHOD 8310







Cfm 14 NOV 2005

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, November 14, 2005 3:23:59 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.807	BB	323.61371	75.88262	2.45567e4		Naphthalene
6.060	FM	461.84637	106.68358	4.92714e4		Acenaphthylene
6.837	MF	839.73962	117.40616	9.85906e4		1-Methylnaphthalene (UV)
7.295	FM	286.22339	85.64761	2.45143e4		2-Methylnaphthalene
7.676	FM	125.66128	205.56332	2.58313e4		Acenaphthene
8.202	FM	313.40030	15.75905	4938.89049		Fluorene
9.315	MM	446.01529	5.61246	2503.24489		Phenanthrene
10.344	MF	1010.66217	2.66779	2696.23356		Anthracene
11.503	MF	203.73349	24.42287	4975.75651		Fluoranthene
12.276	MF	82.77225	31.63674	2618.64393		Pyrene
15.110	MF	225.67519	11.52381	2600.63749		Benzo(a)anthracene
15.610	FM	330.15082	7.41885	2449.33971		Chrysene
17.846	MF	529.55377	9.23486	4890.35241		Benzo(b)fluoranthene
18.803	MM	200.76387	12.32753	2474.92318		Benzo(k)fluoranthene
19.748	FM	215.14328	12.51112	2691.68417		Benzo(a)pyrene
21.359	FM	106.57118	46.71340	4978.30186		Dibenz(a,h)anthracene
22.124	MF	176.29678	29.69153	5234.52195		Benzo(g,h,i)perylene
22.643	MF	236.57013	10.62343	2513.18679		Indeno(1,2,3-cd)pyrene

Totals : 2.68330e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.060	MF	1386.26819	35.15840	4.87390e4		Acenaphthylene
6.837	MF	302.71973	325.90068	9.86566e4		1-Methylnaphthalene (UV)

Totals : 1.47396e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.847	MM	292.13416	89.38284	2.61118e4		Naphthalene
6.878	MF	1276.22900	84.71264	1.08113e5		1-Methylnaphthalene (F)
7.335	MF	395.10352	65.63405	2.59322e4		2-Methylnaphthalene
7.717	FM	597.90503	46.27010	2.76651e4		Acenaphthene
8.243	FM	651.29639	7.82882	5098.88043		Fluorene
9.355	MM	346.48584	7.62343	2641.41109		Phenanthrene
10.383	MF	1026.49353	2.88463	2961.05835		Anthracene
11.542	MF	203.17122	25.12260	5104.18826		Fluoranthene
12.315	FM	328.05682	8.28614	2718.32530		Pyrene
15.149	MF	376.53439	7.41134	2790.62551		Benzo(a)anthracene
15.650	FM	460.78613	5.59125	2576.37103		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.886	MM	331.92670	15.57289	5169.05699		Benzo(b)fluoranthene
18.843	MM	980.66785	2.69598	2643.86535		Benzo(k)fluoranthene
19.788	MM	534.25336	5.37679	2872.56627		Benzo(a)pyrene
21.399	FM	158.05646	32.30976	5106.76669		Dibenz(a,h)anthracene
22.165	MF	316.47900	17.17133	5434.36481		Benzo(g,h,i)perylene
22.683	FM	240.76752	10.92160	2629.56726		Indeno(1,2,3-cd)pyrene

Totals : 2.35569e5

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

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*** End of Report ***

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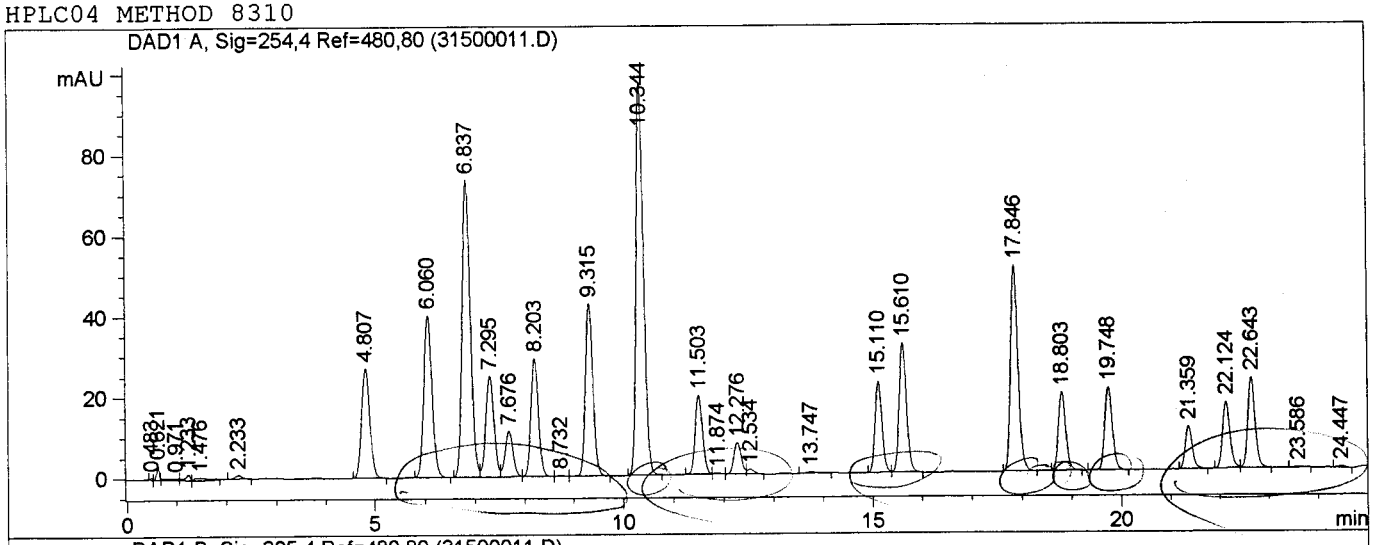
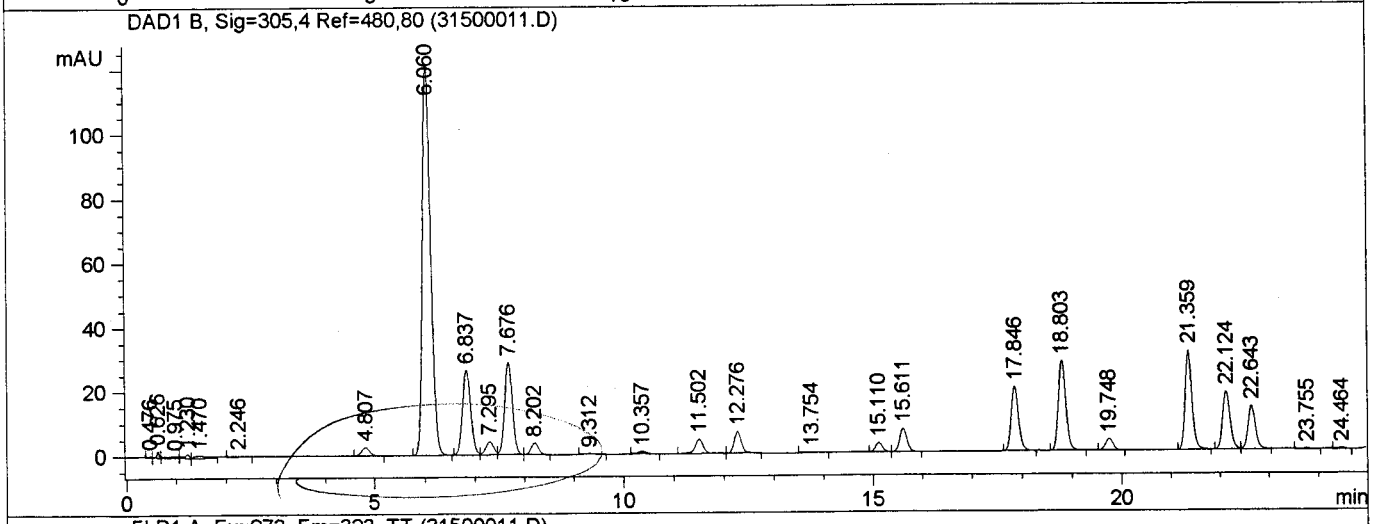
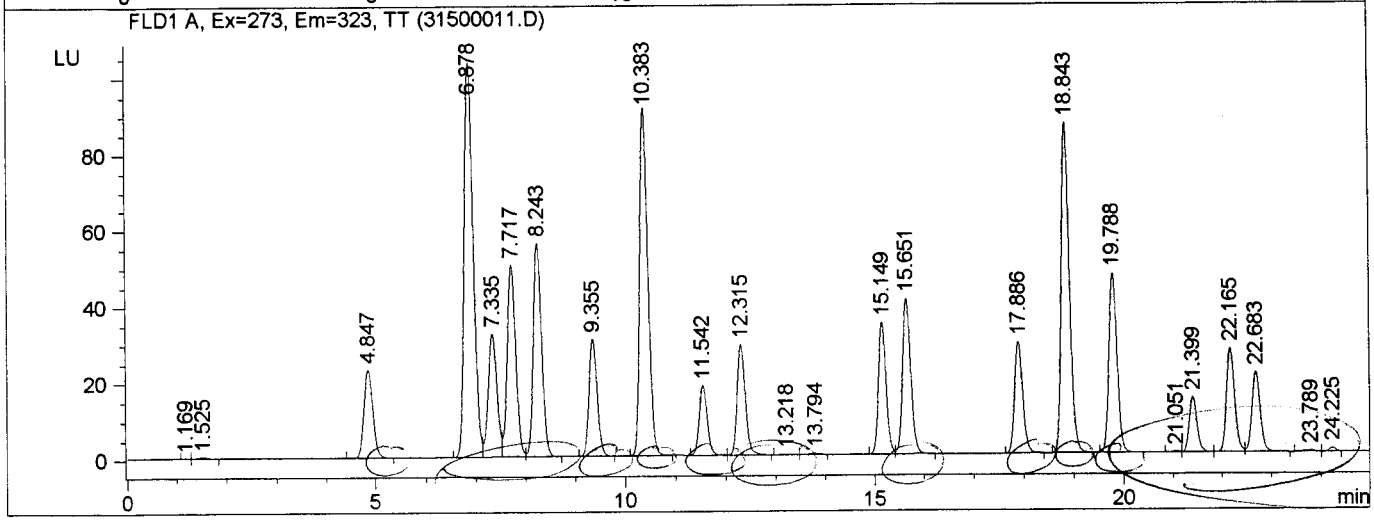
Injection Date	: 11/11/2005 4:05:21 PM	Seq. Line :	11
Sample Name	: ICAL,S1615	Location :	Vial 11
Acq. Operator	: HPL	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Sequence File	: G:\HPLC4\SEQUENCE\111105.S		
Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		

HPLC04 METHOD 8310







External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.807	BB	323.61371	75.58374	2.44599e4		Naphthalene
6.060	BP	460.62192	106.19647	4.89164e4		Acenaphthylene
6.837	BV	839.16504	116.96188	9.81503e4		1-Methylnaphthalene (UV)
7.295	VV	286.60989	85.17556	2.44122e4		2-Methylnaphthalene
7.676	VV	126.50960	205.77821	2.60329e4		Acenaphthene
8.203	VB	314.15155	15.70912	4935.04329		Fluorene
9.315	VP	446.43643	5.59248	2496.68672		Phenanthrene
10.344	PB	1008.37457	2.67826	2700.68981		Anthracene
11.503	BV	203.32158	24.36634	4954.20236		Fluoranthene
12.276	VV	82.54977	31.74842	2620.82491		Pyrene
15.110	BV	225.34038	11.55602	2604.03901		Benzo(a)anthracene
15.610	VB	330.47839	7.39324	2443.30457		Chrysene
17.846	BB	529.04700	9.20114	4867.83559		Benzo(b)fluoranthene
18.803	BB	201.21896	12.30054	2475.10275		Benzo(k)fluoranthene
19.748	BB	216.95140	12.56479	2725.94876		Benzo(a)pyrene
21.359	BP	105.96977	46.64399	4942.85308		Dibenz(a,h)anthracene
22.124	BV	176.37206	29.75989	5248.81290		Benzo(g,h,i)perylene
22.643	VB	236.87695	10.60205	2511.38140		Indeno(1,2,3-cd)pyrene

Totals : 2.67498e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.060	BB	1387.49243	34.98442	4.85406e4		Acenaphthylene
6.837	BV	303.13959	324.70876	9.84321e4		1-Methylnaphthalene (UV)

Totals : 1.46973e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.847	VB	292.85437	89.41991	2.61870e4		Naphthalene
6.878	BV	1275.37854	85.05315	1.08475e5		1-Methylnaphthalene (F)
7.335	VV	394.97131	65.66524	2.59359e4		2-Methylnaphthalene
7.717	VV	600.76691	46.68992	2.80498e4		Acenaphthene
8.243	VB	654.91974	7.81221	5116.37136		Fluorene
9.355	BB	350.65323	7.63570	2677.48265		Phenanthrene
10.383	BB	1033.24744	2.90960	3006.33583		Anthracene
11.542	BV	209.66335	25.13277	5269.41968		Fluoranthene
12.315	VB	334.40729	8.34700	2791.29599		Pyrene
15.149	BV	376.61612	7.46061	2809.78641		Benzo(a)anthracene
15.651	VB	461.88678	5.58732	2580.71093		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.886	BB	331.87186	15.58213	5171.26955		Benzo(b)fluoranthene
18.843	BB	982.09100	2.70441	2655.97343		Benzo(k)fluoranthene
19.788	BB	536.22577	5.41819	2905.37327		Benzo(a)pyrene
21.399	VP	158.06680	32.34222	5112.23135		Dibenz(a,h)anthracene
22.165	VV	316.20016	17.25346	5455.54666		Benzo(g,h,i)perylene
22.683	VB	243.49887	10.94867	2665.98932		Indeno(1,2,3-cd)pyrene

Totals : 2.36865e5

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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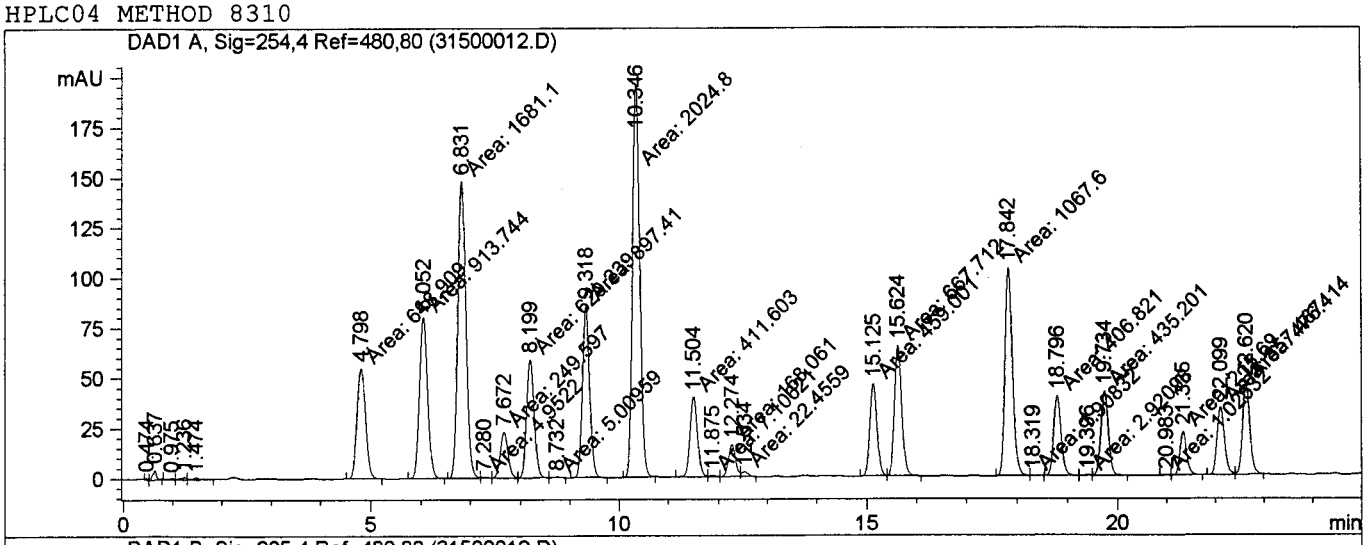
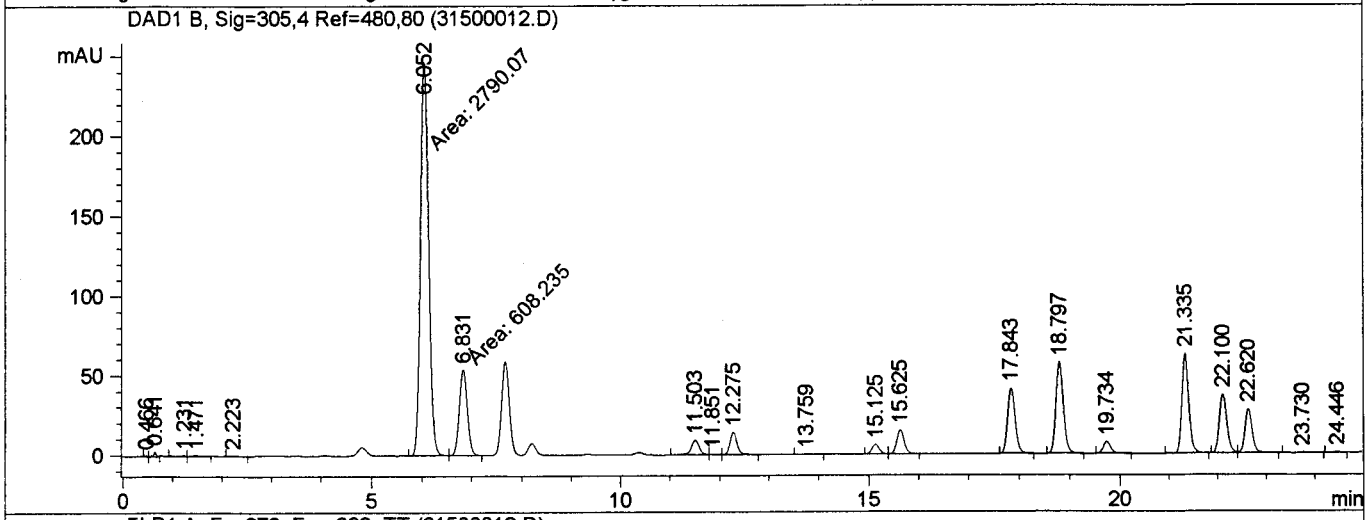
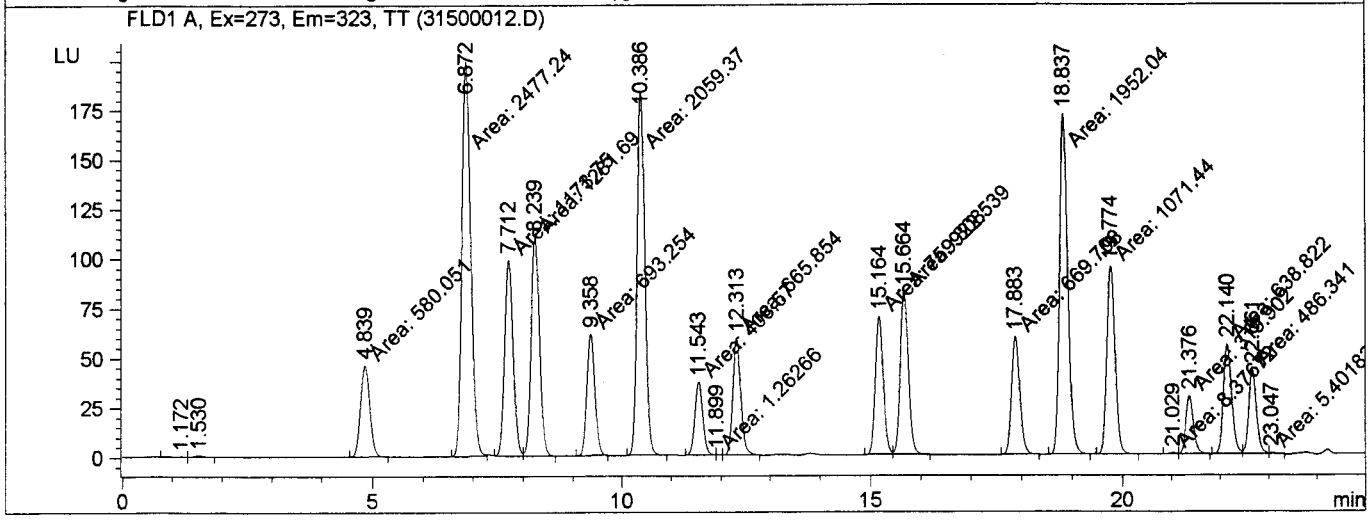
Injection Date	: 11/11/2005 4:36:54 PM	Seq. Line :	12
Sample Name	: ICAL,S1614	Location :	Vial 12
Acq. Operator	: HPL	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 11/14/2005 4:04:39 PM by HPL (modified after loading)		

HPLC04 METHOD 8310







JM 14 NOV 2005

External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:04:38 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.798	FM	648.90906	77.07999	5.00179e4		Naphthalene
6.052	FM	913.74396	109.19028	9.97720e4		Acenaphthylene
6.831	MF	1681.10107	118.97180	2.00004e5		1-Methylnaphthalene (UV)
7.280	MF	4.95220	79.34361	392.92557		2-Methylnaphthalene
7.672	MF	249.59686	200.00745	4.99212e4		Acenaphthene
8.199	MF	629.23938	15.90162	1.00059e4		Fluorene
9.318	MM	897.40991	5.57725	5005.08079		Phenanthrene
10.346	MF	2024.80078	2.46988	5001.02354		Anthracene
11.504	MF	411.60339	24.33756	1.00174e4		Fluoranthene
12.274	MF	168.06082	29.83443	5013.99819		Pyrene
15.125	MF	459.00107	10.92545	5014.79131		Benzo(a)anthracene
15.624	FM	667.71228	7.50261	5009.58728		Chrysene
17.842	MF	1067.59534	9.37832	1.00122e4		Benzo(b)fluoranthene
18.796	MF	406.82126	12.31843	5011.39735		Benzo(k)fluoranthene
19.734	FM	435.20081	11.51003	5009.17240		Benzo(a)pyrene
21.335	FM	215.69028	46.45435	1.00198e4		Dibenz(a,h)anthracene
22.099	MF	357.48672	28.01144	1.00137e4		Benzo(g,h,i)perylene
22.620	FM	476.41440	10.47141	4988.73112		Indeno(1,2,3-cd)pyrene

Totals : 4.90230e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.052	MF	2790.07104	35.87768	1.00101e5		Acenaphthylene
6.831	MF	608.23541	329.06707	2.00150e5		1-Methylnaphthalene (UV)

Totals : 3.00252e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.839	MM	580.05115	86.06663	4.99230e4		Naphthalene
6.872	MF	2477.23877	78.22578	1.93784e5		1-Methylnaphthalene (F)
7.335		-	-	-		2-Methylnaphthalene
7.712	MF	1173.74512	41.75998	4.90156e4		Acenaphthene
8.239	FM	1281.69031	7.66844	9828.55957		Fluorene
9.358	MM	693.25409	7.21124	4999.22417		Phenanthrene
10.386	MF	2059.37134	2.42912	5002.45295		Anthracene
11.543	MF	408.57028	24.49724	1.00088e4		Fluoranthene
12.313	FM	665.85370	7.52816	5012.65617		Pyrene
15.164	MF	759.30841	6.59405	5006.91434		Benzo(a)anthracene
15.664	FM	922.53937	5.41979	4998.96781		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.883	MF	669.70776	14.95406	1.00148e4		Benzo(b)fluoranthene
18.837	MF	1952.04028	2.55869	4994.66919		Benzo(k)fluoranthene
19.774	FM	1071.43713	4.66813	5001.60824		Benzo(a)pyrene
21.376	FM	319.90201	31.32159	1.00198e4		Dibenz(a,h)anthracene
22.140	MF	638.82190	15.67791	1.00154e4		Benzo(g,h,i)perylene
22.661	MF	486.34088	10.29785	5008.26668		Indeno(1,2,3-cd)pyrene

Totals : 3.82636e5

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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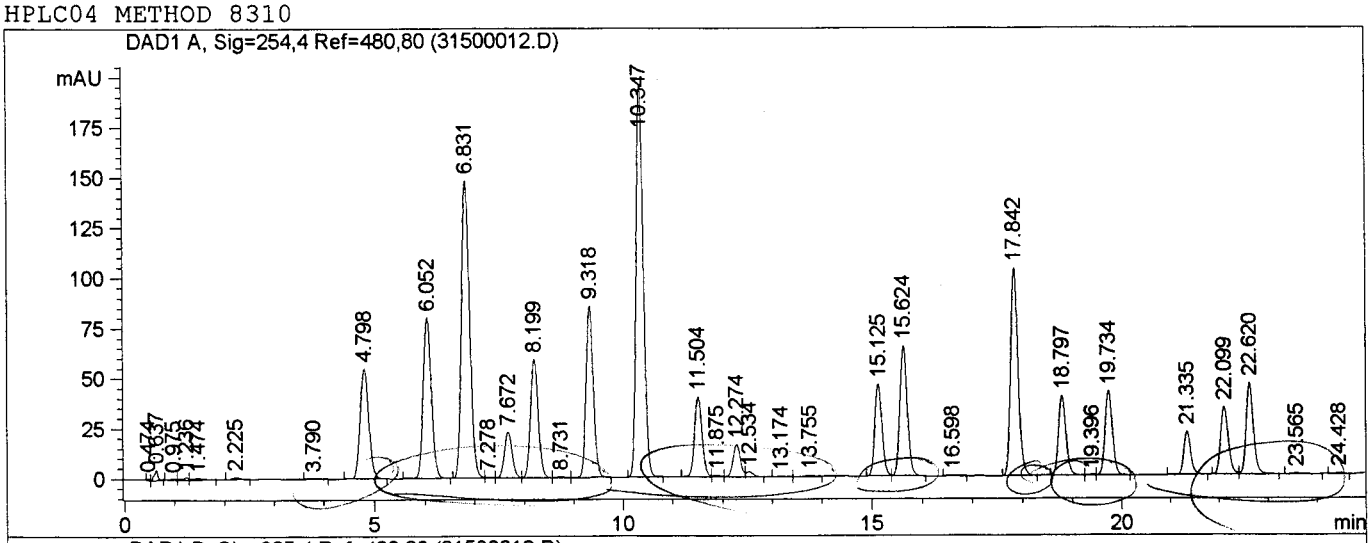
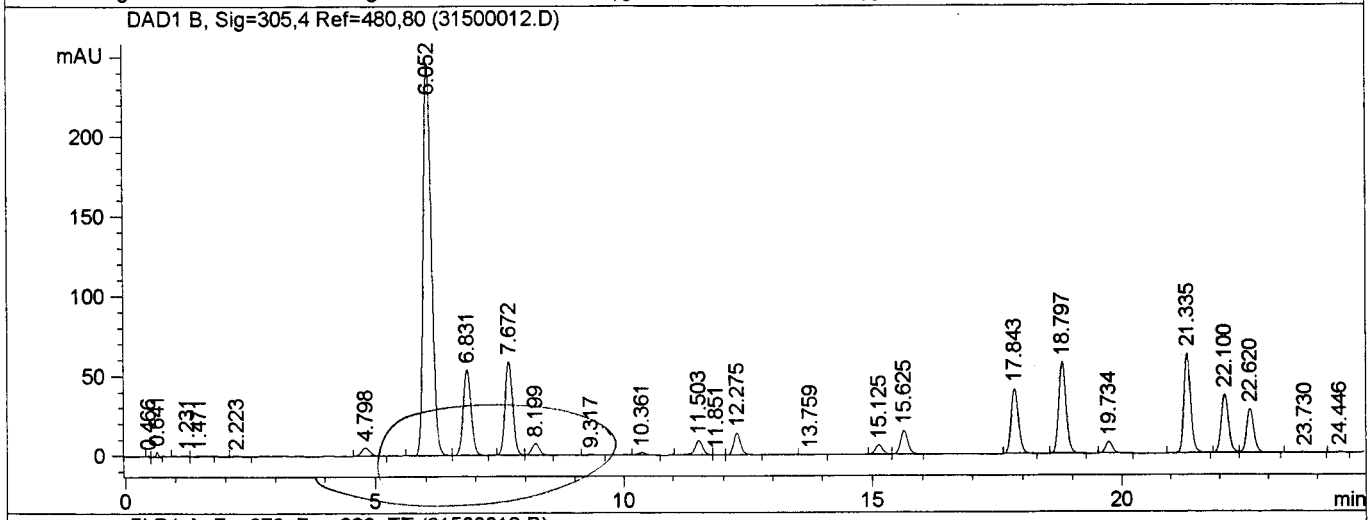
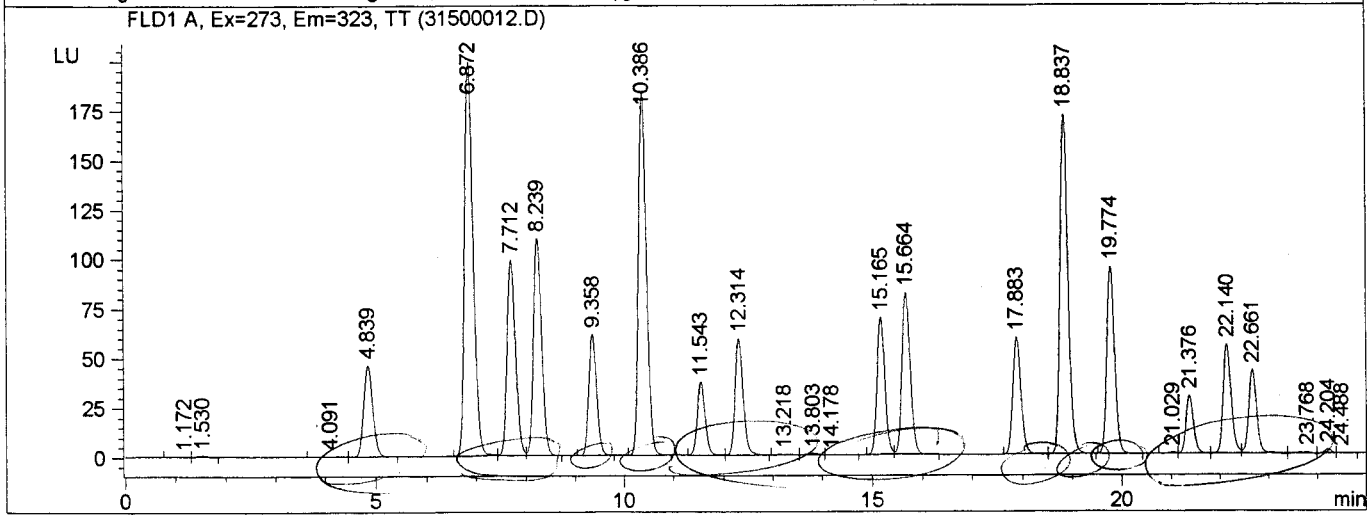
Injection Date	: 11/11/2005 4:36:54 PM	Seq. Line :	12
Sample Name	: ICAL,S1614	Location :	Vial 12
Acq. Operator	: HPL	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Sequence File	: G:\HPLC4\SEQUENCE\111105.S		
Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		

HPLC04 METHOD 8310







External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.798	BB	647.92590	75.77620	4.90974e4		Naphthalene
6.052	BP	914.91376	106.68185	9.76047e4		Acenaphthylene
6.831	BV	1681.13379	117.41358	1.97388e5		1-Methylnaphthalene (UV)
7.278	VV	5.24963	56.31698	295.64317		2-Methylnaphthalene
7.672	VV	250.17746	206.34568	5.16230e4		Acenaphthene
8.199	VV	630.32672	15.74564	9924.89767		Fluorene
9.318	VP	898.17737	5.62171	5049.28914		Phenanthrene
10.347	BB	2027.48340	2.68606	5445.93602		Anthracene
11.504	BV	416.99786	24.41423	1.01807e4		Fluoranthene
12.274	VV	170.79819	31.71372	5416.64596		Pyrene
15.125	BV	458.60211	11.56211	5302.41022		Benzo(a)anthracene
15.624	VB	667.24249	7.40838	4943.18470		Chrysene
17.842	BB	1067.14661	9.21482	9833.56607		Benzo(b)fluoranthene
18.797	BB	406.67978	12.30402	5003.79774		Benzo(k)fluoranthene
19.734	VB	434.84232	12.57220	5466.92541		Benzo(a)pyrene
21.335	BB	219.65565	46.55887	1.02269e4		Dibenz(a,h)anthracene
22.099	BV	363.46048	29.77688	1.08227e4		Benzo(g,h,i)perylene
22.620	VB	493.74603	10.61532	5241.27246		Indeno(1,2,3-cd)pyrene

Totals : 4.88867e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.052	BV	2789.97314	35.08817	9.78950e4		Acenaphthylene
6.831	VB	608.50012	325.85032	1.98280e5		1-Methylnaphthalene (UV)

Totals : 2.96175e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.839	VB	581.45532	89.82798	5.22310e4		Naphthalene
6.872	BV	2484.81372	85.61369	2.12734e5		1-Methylnaphthalene (F)
7.399		-	-	-		2-Methylnaphthalene
7.712	VV	1176.09302	46.86327	5.51156e4		Acenaphthene
8.239	VB	1287.53809	7.85043	1.01077e4		Fluorene
9.358	BB	701.78259	7.67948	5389.32199		Phenanthrene
10.386	BB	2072.21411	2.92260	6056.25380		Anthracene
11.543	BV	421.73749	25.17879	1.06188e4		Fluoranthene
12.314	VB	678.73724	8.35203	5668.83629		Pyrene
15.165	BV	759.86157	7.48411	5686.88802		Benzo(a)anthracene
15.664	VB	925.06207	5.61682	5195.91129		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.883	BV	670.50836	15.63304	1.04821e4		Benzo(b)fluoranthene
18.837	VB	1956.50098	2.71374	5309.43490		Benzo(k)fluoranthene
19.774	BB	1077.07507	5.43915	5858.37331		Benzo(a)pyrene
21.376	VV	323.55270	32.33177	1.04610e4		Dibenz(a,h)anthracene
22.140	VV	640.48981	17.28431	1.10704e4		Benzo(g,h,i)perylene
22.661	VV	493.75449	10.96018	5411.63807		Indeno(1,2,3-cd)pyrene

Totals : 4.17397e5

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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*** End of Report ***

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185408 HPLC Water
EPA 8310

Inst : HPLC04
Calnum : 295454249001 Cal Date: 11-NOV-2005

ICV 295454249015 (31500015 11-NOV-2005) stds: S1859

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1	5000	5429	ug/L	9	15	
Acenaphthylene	1	10000	11450	ug/L	14	15	
Acenaphthene	1	5000	5731	ug/L	15	15	
Fluorene	1	1000	1083	ug/L	8	15	
Phenanthrene	1	500.0	527.1	ug/L	5	15	
Anthracene	1	500.0	541.6	ug/L	8	15	
Fluoranthene	1	1000	1095	ug/L	9	15	
Pyrene	1	500.0	544.7	ug/L	9	15	
Benzo(a)anthracene	1	500.0	539.7	ug/L	8	15	
Chrysene	1	500.0	541.3	ug/L	8	15	
Benzo(b)fluoranthene	1	1000	1079	ug/L	8	15	
Benzo(k)fluoranthene	1	500.0	541.4	ug/L	8	15	
Benzo(a)pyrene	1	500.0	528.7	ug/L	6	15	
Dibenz(a,h)anthracene	1	1000	1083	ug/L	8	15	
Benzo(g,h,i)perylene	1	1000	1068	ug/L	7	15	
Indeno(1,2,3-cd)pyrene	1	500.0	543.1	ug/L	9	15	
Acenaphthylene	2	10000	10910	ug/L	9	15	
Naphthalene	3	5000	5415	ug/L	8	15	
Acenaphthene	3	5000	5652	ug/L	13	15	
Fluorene	3	1000	1080	ug/L	8	15	
Phenanthrene	3	500.0	519.8	ug/L	4	15	
Anthracene	3	500.0	542.4	ug/L	8	15	
Fluoranthene	3	1000	1101	ug/L	10	15	
Pyrene	3	500.0	543.9	ug/L	9	15	
Benzo(a)anthracene	3	500.0	536.6	ug/L	7	15	
Chrysene	3	500.0	537.3	ug/L	7	15	
Benzo(b)fluoranthene	3	1000	1079	ug/L	8	15	
Benzo(k)fluoranthene	3	500.0	544.4	ug/L	9	15	
Benzo(a)pyrene	3	500.0	526.8	ug/L	5	15	
Dibenz(a,h)anthracene	3	1000	1078	ug/L	8	15	
Benzo(g,h,i)perylene	3	1000	1049	ug/L	5	15	
Indeno(1,2,3-cd)pyrene	3	500.0	542.2	ug/L	8	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185408 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: H IDF : 1.0
Seqnum : 296107229018 File : 07400018 Time : 15-MAR-2006 20:43
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S1578

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0136	10000	10500	ug/L	5	15	
Acenaphthylene	1	0.0093	0.0097	20000	20910	ug/L	5	15	
Acenaphthene	1	0.0050	0.0054	10000	10800	ug/L	8	15	
Fluorene	1	0.0629	0.0658	2000	2090	ug/L	5	15	
Phenanthrene	1	0.1797	0.1880	1000	1048	ug/L	5	15	
Anthracene	1	0.4065	0.4390	1000	1082	ug/L	8	15	
Fluoranthene	1	0.0408	0.0427	2000	2082	ug/L	4	15	
Pyrene	1	0.0329	0.0350	1000	1052	ug/L	5	15	
Benzo(a)anthracene	1	0.0901	0.0981	1000	1077	ug/L	8	15	
Chrysene	1	0.1322	0.1421	1000	1068	ug/L	7	15	
Benzo(b)fluoranthene	1	0.1049	0.1126	2000	2116	ug/L	6	15	
Benzo(k)fluoranthene	1	0.0796	0.0867	1000	1075	ug/L	7	15	
Benzo(a)pyrene	1	0.0842	0.0906	1000	1049	ug/L	5	15	
Dibenz(a,h)anthracene	1	0.0205	0.0228	2000	2139	ug/L	7	15	
Benzo(g,h,i)perylene	1	0.0349	0.0371	2000	2093	ug/L	5	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.1008	1000	1066	ug/L	7	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0085	50000	50270	ug/L	1	15	
Acenaphthylene	2	0.0277	0.0293	20000	21000	ug/L	5	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	49870	ug/L	0	15	
Naphthalene	3	0.0118	0.0115	10000	9831	ug/L	-2	15	
Acenaphthene	3	0.0242	0.0239	10000	9943	ug/L	-1	15	
Fluorene	3	0.1330	0.1331	2000	2027	ug/L	1	15	
Phenanthrene	3	0.1408	0.1386	1000	992.5	ug/L	-1	15	
Anthracene	3	0.4129	0.4364	1000	1058	ug/L	6	15	
Fluoranthene	3	0.0409	0.0408	2000	1999	ug/L	0	15	
Pyrene	3	0.1339	0.1322	1000	993.7	ug/L	-1	15	
Benzo(a)anthracene	3	0.1518	0.1553	1000	1023	ug/L	2	15	
Chrysene	3	0.1854	0.1889	1000	1020	ug/L	2	15	
Benzo(b)fluoranthene	3	0.0668	0.0677	2000	2026	ug/L	1	15	
Benzo(k)fluoranthene	3	0.3937	0.4140	1000	1054	ug/L	5	15	
Benzo(a)pyrene	3	0.2148	0.2198	1000	1023	ug/L	2	15	
Dibenz(a,h)anthracene	3	0.0311	0.0326	2000	2055	ug/L	3	15	
Benzo(g,h,i)perylene	3	0.0629	0.0641	2000	2016	ug/L	1	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.1005	1000	1040	ug/L	4	15	
1-Methylnaphthalene (F)	3	0.0131	0.0121	50000	46810	ug/L	-6	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185408 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: M IDF : 1.0
Seqnum : 296107229032 File : 07400032 Time : 16-MAR-2006 04:06
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2255

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0137	5000	5272	ug/L	5	15	
Acenaphthylene	1	0.0093	0.0097	10000	10430	ug/L	4	15	
Acenaphthene	1	0.0050	0.0056	5000	5476	ug/L	10	15	
Fluorene	1	0.0629	0.0661	1000	1048	ug/L	5	15	
Phenanthrene	1	0.1797	0.1876	500.0	522.0	ug/L	4	15	
Anthracene	1	0.4065	0.4440	500.0	545.2	ug/L	9	15	
Fluoranthene	1	0.0408	0.0421	1000	1029	ug/L	3	15	
Pyrene	1	0.0329	0.0348	500.0	527.3	ug/L	5	15	
Benzo(a)anthracene	1	0.0901	0.1002	500.0	552.7	ug/L	11	15	
Chrysene	1	0.1322	0.1406	500.0	529.7	ug/L	6	15	
Benzo(b)fluoranthene	1	0.1049	0.1112	1000	1047	ug/L	5	15	
Benzo(k)fluoranthene	1	0.0796	0.0853	500.0	533.7	ug/L	7	15	
Benzo(a)pyrene	1	0.0842	0.0923	500.0	538.7	ug/L	8	15	
Dibenz(a,h)anthracene	1	0.0205	0.0227	1000	1083	ug/L	8	15	
Benzo(g,h,i)perylene	1	0.0349	0.0372	1000	1060	ug/L	6	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.1061	500.0	565.2	ug/L	13	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0083	50000	49070	ug/L	-2	15	
Acenaphthylene	2	0.0277	0.0295	10000	10580	ug/L	6	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0029	50000	48360	ug/L	-3	15	
Naphthalene	3	0.0118	0.0115	5000	4869	ug/L	-3	15	
Acenaphthene	3	0.0242	0.0242	5000	4992	ug/L	0	15	
Fluorene	3	0.1330	0.1350	1000	1019	ug/L	2	15	
Phenanthrene	3	0.1408	0.1359	500.0	482.2	ug/L	-4	15	
Anthracene	3	0.4129	0.4428	500.0	535.5	ug/L	7	15	
Fluoranthene	3	0.0409	0.0403	1000	984.0	ug/L	-2	15	
Pyrene	3	0.1339	0.1280	500.0	479.9	ug/L	-4	15	
Benzo(a)anthracene	3	0.1518	0.1578	500.0	519.1	ug/L	4	15	
Chrysene	3	0.1854	0.1858	500.0	498.6	ug/L	0	15	
Benzo(b)fluoranthene	3	0.0668	0.0667	1000	997.6	ug/L	0	15	
Benzo(k)fluoranthene	3	0.3937	0.4128	500.0	521.7	ug/L	4	15	
Benzo(a)pyrene	3	0.2148	0.2179	500.0	505.2	ug/L	1	15	
Dibenz(a,h)anthracene	3	0.0311	0.0322	1000	1022	ug/L	2	15	
Benzo(g,h,i)perylene	3	0.0629	0.0609	1000	962.6	ug/L	-4	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.1039	500.0	540.4	ug/L	8	15	
1-Methylnaphthalene (F)	3	0.0131	0.0117	50000	45490	ug/L	-9	15	

SEQUENCE SUMMARY FOR 185408 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 295454249 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 11-NOV-2005
Analytical Method: EPA 8310 SOP Version: 8310_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	31500001	X	PRIMER - 315			11-NOV-2005 10:49	1.0						
002	31500002	X	PRIMER			11-NOV-2005 11:20	1.0						
003	31500003	X	IB - 315			11-NOV-2005 11:52	1.0						
004	31500004	X	IB			11-NOV-2005 12:24	1.0						
005	31500005	X	IB			11-NOV-2005 12:55	1.0						
006	31500006	ICAL				11-NOV-2005 13:27	1.0					1	
007	31500007	ICAL				11-NOV-2005 13:58	1.0					2	
008	31500008	ICAL				11-NOV-2005 14:30	1.0					3	
009	31500009	ICAL				11-NOV-2005 15:02	1.0					4	
010	31500010	ICAL				11-NOV-2005 15:33	1.0					5	
011	31500011	ICAL				11-NOV-2005 16:05	1.0					6	
012	31500012	ICAL				11-NOV-2005 16:36	1.0					7	
013	31500013	X	IB			11-NOV-2005 17:08	1.0						
014	31500014	X	IB			11-NOV-2005 17:40	1.0						
015	31500015	ICV				11-NOV-2005 18:11	1.0		10			8	317
016	31500016	X	ICV			11-NOV-2005 18:43	1.0					8	
017	31500017	X	IB			11-NOV-2005 19:14	1.0						

Stds used: 1=S1620 2=S1619 3=S1618 4=S1617 5=S1616 6=S1615 7=S1614 8=S1859

SEQUENCE SUMMARY FOR 185408 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296107229 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 15-MAR-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	07400001	X	IB - 074			15-MAR-2006 11:09	1.0						
002	07400002	X,CCV	L			15-MAR-2006 11:41	1.0	1.0			10	1	
003	07400003	CCV	L			15-MAR-2006 12:13	1.0	1.0			10	1	
004	07400004	X	IB			15-MAR-2006 12:45	1.0						
005	07400005	LCS	QC331584	111330	Soil	15-MAR-2006 13:16	1.0	0.06711	2		10	spk	2:FL=11482.9
006	07400006	BLANK	QC331583	111330	Soil	15-MAR-2006 13:48	1.0	0.06645	2		10		
007	07400007	X,SAMPL	185519-013	111330	Soil	15-MAR-2006 14:19	1.0	0.06623	2		10	spk	2:FL=23481.5
008	07400008	SAMPLE	185519-014	111330	Soil	15-MAR-2006 14:51	1.0	0.06601			10	spk	
009	07400009	SAMPLE	185519-015	111330	Soil	15-MAR-2006 15:33	1.0	0.06618	1		10	spk	1:PYR=9383.25
010	07400010	MSS	185519-016	111330	Soil	15-MAR-2006 16:18	1.0	0.06766	2		10	spk	
011	07400011	MS	QC331585	111330	Soil	15-MAR-2006 17:02	1.0	0.06633	13	14	10		13:FLA=19935.5
012	07400012	MSD	QC331586	111330	Soil	15-MAR-2006 17:34	1.0	0.06734	1	25	10		1:PYR=6526.53
013	07400013	X	IB			15-MAR-2006 18:05	1.0						
014	07400014	X	IB			15-MAR-2006 18:37	1.0						
015	07400015	X	IB			15-MAR-2006 19:09	1.0						
016	07400016	LCS	QC331584	111330	Soil	15-MAR-2006 19:40	1.0	0.06711	2		10	spk	2:FL=11512.0
017	07400017	X	IB			15-MAR-2006 20:12	1.0						
018	07400018	CCV	H			15-MAR-2006 20:43	1.0	1.0			10	2	
019	07400019	X	CCV			15-MAR-2006 21:15	1.0					3	
020	07400020	X	IB			15-MAR-2006 21:47	1.0						
021	07400021	LCS	QC331306	111260	Water	15-MAR-2006 22:18	1.0	0.002			10		
022	07400022	BLANK	QC331305	111260	Water	15-MAR-2006 22:50	1.0	0.002			10		
023	07400023	SAMPLE	185414-001	111260	Water	15-MAR-2006 23:22	1.0	0.001887			10		
024	07400024	SAMPLE	185414-002	111260	Water	15-MAR-2006 23:53	1.0	0.001887			10		
025	07400025	SAMPLE	185408-001	111260	Water	16-MAR-2006 00:25	1.0	0.001887			10		
026	07400026	SAMPLE	185408-003	111260	Water	16-MAR-2006 00:56	1.0	0.001887			10		
027	07400027	MSS	185408-008	111260	Water	16-MAR-2006 01:28	1.0	0.001961	2		10		
028	07400028	SAMPLE	185408-009	111260	Water	16-MAR-2006 02:00	1.0	0.001942			10		
029	07400029	MS	QC331307	111260	Water	16-MAR-2006 02:31	1.0	0.001961		11	10		
030	07400030	MSD	QC331308	111260	Water	16-MAR-2006 03:03	1.0	0.001961		10	10		

Stds used: 1=S2256 2=S1578 3=S2255
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 185408 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296107229 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 15-MAR-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
031	07400031	X	IB			16-MAR-2006 03:34	1.0					
032	07400032	CCV	M			16-MAR-2006 04:06	1.0	1.0		10	3	
033	07400033	X	CCV			16-MAR-2006 04:38	1.0				1	
034	07400034	X	IB			16-MAR-2006 05:09	1.0					

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Stds used: 1=S2256 2=S1578 3=S2255
Flags used: spk=5% spike rule

REPORTING SUMMARY FOR 185408 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185408-001	Naphthalene	HPLC04	1	03/16/06 00:25
185408-001	Acenaphthylene	HPLC04	1	03/16/06 00:25
185408-001	Acenaphthene	HPLC04	1	03/16/06 00:25
185408-001	Fluorene	HPLC04	1	03/16/06 00:25
185408-001	Phenanthrene	HPLC04	3	03/16/06 00:25
185408-001	Anthracene	HPLC04	3	03/16/06 00:25
185408-001	Fluoranthene	HPLC04	3	03/16/06 00:25
185408-001	Pyrene	HPLC04	3	03/16/06 00:25
185408-001	Benzo(a)anthracene	HPLC04	3	03/16/06 00:25
185408-001	Chrysene	HPLC04	3	03/16/06 00:25
185408-001	Benzo(b)fluoranthene	HPLC04	3	03/16/06 00:25
185408-001	Benzo(k)fluoranthene	HPLC04	3	03/16/06 00:25
185408-001	Benzo(a)pyrene	HPLC04	3	03/16/06 00:25
185408-001	Dibenz(a,h)anthracene	HPLC04	3	03/16/06 00:25
185408-001	Benzo(g,h,i)perylene	HPLC04	3	03/16/06 00:25
185408-001	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/16/06 00:25
185408-001	1-Methylnaphthalene (UV)	HPLC04	1	03/16/06 00:25
185408-001	1-Methylnaphthalene (F)	HPLC04	3	03/16/06 00:25
185408-003	Naphthalene	HPLC04	1	03/16/06 00:56
185408-003	Acenaphthylene	HPLC04	1	03/16/06 00:56
185408-003	Acenaphthene	HPLC04	1	03/16/06 00:56
185408-003	Fluorene	HPLC04	1	03/16/06 00:56
185408-003	Phenanthrene	HPLC04	3	03/16/06 00:56
185408-003	Anthracene	HPLC04	3	03/16/06 00:56
185408-003	Fluoranthene	HPLC04	3	03/16/06 00:56
185408-003	Pyrene	HPLC04	3	03/16/06 00:56
185408-003	Benzo(a)anthracene	HPLC04	3	03/16/06 00:56
185408-003	Chrysene	HPLC04	3	03/16/06 00:56
185408-003	Benzo(b)fluoranthene	HPLC04	3	03/16/06 00:56
185408-003	Benzo(k)fluoranthene	HPLC04	3	03/16/06 00:56
185408-003	Benzo(a)pyrene	HPLC04	3	03/16/06 00:56
185408-003	Dibenz(a,h)anthracene	HPLC04	3	03/16/06 00:56
185408-003	Benzo(g,h,i)perylene	HPLC04	3	03/16/06 00:56
185408-003	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/16/06 00:56
185408-003	1-Methylnaphthalene (UV)	HPLC04	1	03/16/06 00:56
185408-003	1-Methylnaphthalene (F)	HPLC04	3	03/16/06 00:56
185408-008	Naphthalene	HPLC04	1	03/16/06 01:28
185408-008	Acenaphthylene	HPLC04	1	03/16/06 01:28
185408-008	Acenaphthene	HPLC04	1	03/16/06 01:28
185408-008	Fluorene	HPLC04	1	03/16/06 01:28
185408-008	Phenanthrene	HPLC04	3	03/16/06 01:28
185408-008	Anthracene	HPLC04	3	03/16/06 01:28
185408-008	Fluoranthene	HPLC04	3	03/16/06 01:28
185408-008	Pyrene	HPLC04	3	03/16/06 01:28
185408-008	Benzo(a)anthracene	HPLC04	3	03/16/06 01:28
185408-008	Chrysene	HPLC04	3	03/16/06 01:28
185408-008	Benzo(b)fluoranthene	HPLC04	3	03/16/06 01:28
185408-008	Benzo(k)fluoranthene	HPLC04	3	03/16/06 01:28
185408-008	Benzo(a)pyrene	HPLC04	3	03/16/06 01:28
185408-008	Dibenz(a,h)anthracene	HPLC04	3	03/16/06 01:28
185408-008	Benzo(g,h,i)perylene	HPLC04	3	03/16/06 01:28
185408-008	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/16/06 01:28

REPORTING SUMMARY FOR 185408 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185408-008	1-Methylnaphthalene (UV)	HPLC04	1	03/16/06 01:28
185408-008	1-Methylnaphthalene (F)	HPLC04	3	03/16/06 01:28
185408-009	Naphthalene	HPLC04	1	03/16/06 02:00
185408-009	Acenaphthylene	HPLC04	1	03/16/06 02:00
185408-009	Acenaphthene	HPLC04	1	03/16/06 02:00
185408-009	Fluorene	HPLC04	1	03/16/06 02:00
185408-009	Phenanthrene	HPLC04	3	03/16/06 02:00
185408-009	Anthracene	HPLC04	3	03/16/06 02:00
185408-009	Fluoranthene	HPLC04	3	03/16/06 02:00
185408-009	Pyrene	HPLC04	3	03/16/06 02:00
185408-009	Benzo(a)anthracene	HPLC04	3	03/16/06 02:00
185408-009	Chrysene	HPLC04	3	03/16/06 02:00
185408-009	Benzo(b)fluoranthene	HPLC04	3	03/16/06 02:00
185408-009	Benzo(k)fluoranthene	HPLC04	3	03/16/06 02:00
185408-009	Benzo(a)pyrene	HPLC04	3	03/16/06 02:00
185408-009	Dibenz(a,h)anthracene	HPLC04	3	03/16/06 02:00
185408-009	Benzo(g,h,i)perylene	HPLC04	3	03/16/06 02:00
185408-009	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/16/06 02:00
185408-009	1-Methylnaphthalene (UV)	HPLC04	1	03/16/06 02:00
185408-009	1-Methylnaphthalene (F)	HPLC04	3	03/16/06 02:00
QC331305	Naphthalene	HPLC04	1	03/15/06 22:50
QC331305	Acenaphthylene	HPLC04	1	03/15/06 22:50
QC331305	Acenaphthene	HPLC04	1	03/15/06 22:50
QC331305	Fluorene	HPLC04	1	03/15/06 22:50
QC331305	Phenanthrene	HPLC04	3	03/15/06 22:50
QC331305	Anthracene	HPLC04	3	03/15/06 22:50
QC331305	Fluoranthene	HPLC04	3	03/15/06 22:50
QC331305	Pyrene	HPLC04	3	03/15/06 22:50
QC331305	Benzo(a)anthracene	HPLC04	3	03/15/06 22:50
QC331305	Chrysene	HPLC04	3	03/15/06 22:50
QC331305	Benzo(b)fluoranthene	HPLC04	3	03/15/06 22:50
QC331305	Benzo(k)fluoranthene	HPLC04	3	03/15/06 22:50
QC331305	Benzo(a)pyrene	HPLC04	3	03/15/06 22:50
QC331305	Dibenz(a,h)anthracene	HPLC04	3	03/15/06 22:50
QC331305	Benzo(g,h,i)perylene	HPLC04	3	03/15/06 22:50
QC331305	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/15/06 22:50
QC331305	1-Methylnaphthalene (UV)	HPLC04	1	03/15/06 22:50
QC331305	1-Methylnaphthalene (F)	HPLC04	3	03/15/06 22:50
QC331306	Naphthalene	HPLC04	1	03/15/06 22:18
QC331306	Fluorene	HPLC04	1	03/15/06 22:18
QC331306	Pyrene	HPLC04	3	03/15/06 22:18
QC331306	Benzo(a)pyrene	HPLC04	3	03/15/06 22:18
QC331306	1-Methylnaphthalene (UV)	HPLC04	1	03/15/06 22:18
QC331306	1-Methylnaphthalene (F)	HPLC04	3	03/15/06 22:18
QC331307	Naphthalene	HPLC04	1	03/16/06 02:31
QC331307	Fluorene	HPLC04	1	03/16/06 02:31
QC331307	Pyrene	HPLC04	3	03/16/06 02:31
QC331307	Benzo(a)pyrene	HPLC04	3	03/16/06 02:31
QC331307	1-Methylnaphthalene (UV)	HPLC04	1	03/16/06 02:31
QC331307	1-Methylnaphthalene (F)	HPLC04	3	03/16/06 02:31

REPORTING SUMMARY FOR 185408 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC331308	Naphthalene	HPLC04	1	03/16/06 03:03
QC331308	Fluorene	HPLC04	1	03/16/06 03:03
QC331308	Pyrene	HPLC04	3	03/16/06 03:03
QC331308	Benzo(a)pyrene	HPLC04	3	03/16/06 03:03
QC331308	1-Methylnaphthalene (UV)	HPLC04	1	03/16/06 03:03
QC331308	1-Methylnaphthalene (F)	HPLC04	3	03/16/06 03:03

Curtis & Tompkins Laboratories **Sample Preparation Summary** **14-MAR-2006 20:23**

Batch Number : 111260
Date Extracted: 13-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : 8310
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2841C
Spike #2 ID : S2884A
Spike #3 ID :
SOP Version : 8310w_rv6

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185408-001		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	5	.1	0		8310		
185408-003		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	5	.1	0		8310		
185408-008		Treadwell & Rollo	Water	1020	mL	2	0.001961	1	5	.1	0		8310		MSS
185408-009		Treadwell & Rollo	Water	1030	mL	2	0.001942	1	5	.1	0		8310		
185414-001		Acton Mickelson Environmental	Water	1060	mL	2	0.001887	1	5	.1	0		8310		
185414-002		Acton Mickelson Environmental	Water	1060	mL	2	0.001887	1	5	.1	0		8310		
185414-003		Acton Mickelson Environmental	Water	1050	mL	2	0.001905	1	5	.1	0		8310		
185414-004		Acton Mickelson Environmental	Water	1050	mL	2	0.001905	1	5	.1	0		8310		
185414-005		Acton Mickelson Environmental	Water	1060	mL	2	0.001887	1	5	.1	0		8310		
185414-006		Acton Mickelson Environmental	Water	1050	mL	2	0.001905	1	5	.1	0		8310		
185414-007		Acton Mickelson Environmental	Water	1060	mL	2	0.001887	1	5	.1	0		8310		
185414-008		Acton Mickelson Environmental	Water	1050	mL	2	0.001905	1	5	.1	0		8310		
185414-009		Acton Mickelson Environmental	Water	1050	mL	2	0.001905	1	5	.1	0		8310		
185414-010		Acton Mickelson Environmental	Water	1050	mL	2	0.001905	1	5	.1	0		8310		
185414-011		Acton Mickelson Environmental	Water	1050	mL	2	0.001905	1	5	.1	0		8310		
185414-012		Acton Mickelson Environmental	Water	1050	mL	2	0.001905	1	5	.1	0		8310		
185414-013		Acton Mickelson Environmental	Water	1060	mL	2	0.001887	1	5	.1	0		8310		
185463-002		Treadwell & Rollo	Water	1050	mL	2	0.001905	1	5	.1	0		8310		
QC331305	BLANK		Water	1000	mL	2	0.002000	1		.1	0		8310		
QC331306	LCS		Water	1000	mL	2	0.002000	1		.1	1		8310		
QC331307	MS	of 185408-008	Water	1020	mL	2	0.001961	1	5	.1	1		8310		
QC331308	MSD	of 185408-008	Water	1020	mL	2	0.001961	1	5	.1	1		8310		

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Prep Chemist: Jessie O'Brien Mee Reviewed By: 03/15/06 Date:

Relinquished By: Kristi Received By: Date: 15MAR2006

Curtis & Tompkins, Ltd

8310 WATER PREP LOG

BK2190

LIMS Batch No: 111260
LIMS Analysis: 8310
Extracted by: JOM
Date Extracted: 13 Mar 06

Extraction Method:
☐ EPA 3510c sep. funnel
☒ EPA 3520c cont. L/L
☐ _____

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Cleanup Method (if needed):
☐ EPA 3640a GPC
☐ EPA 3630c Silica Gel

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185408-001 M	1060	5	20		
03 M	1060				
08 AI	1020				MSS
09 P	1030				
185414-001 L	1060				
02 H	1060				
03 H	1050				
04 H	1050				
05 J	1060				*
06 K	1050				
07 L	1060				
08 H	1050				
09 H					
10 I					
11 J					
12 L					
13 H	1060				
185463-002 E	1050				
MB QC331305	1000	NA			
LCS 06	1000				
MS 07	1020	5			185408-008 AJ
MSD 08	1020	5			AK

MHS 3/15/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.1 mL of surrogate solution was added to all samples	S2841C / H*	JOM 3/13/06
1.0 mL of matrix spiking solution was added to all spikes	S2884A	
☒ Samples continuously extracted with about 450 mL of CH_2Cl_2	EM46014	
Extraction Start Time:	1410	
Extraction End Time:	0830	SHD 3/14/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	JOM 3/14/06
Extracts filtered through baked, CH2Cl2-rinsed ~~powdered~~ granular Na2SO4	EM 45118532	
Exchanged 2x with Acetonitrile	EM 45216	
Concentrated: ☒ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Silica Gel	NA	
Extracts filtered with 0.45 um PTFE syringe filter	Whatman L227	

Jessica Mee 3/13/06
Extraction Chemist Date

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Contined from Page —
Continued on Page —

03/15/06
Reviewed by Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8310 Water 3520C
As of 04/05/06

Analyte	Units	HPLC02 1	HPLC02 2	HPLC02 3	HPLC04 1	HPLC04 2	HPLC04 3
Naphthalene	ug/L	0.16		0.069	0.072		0.074
Acenaphthylene	ug/L	0.37	0.29		0.095	0.099	
2-Methylnaphthalene	ug/L				0.072		0.10
Acenaphthene	ug/L	0.36		0.098	0.064		0.089
Fluorene	ug/L	0.051		0.054	0.015		0.015
Phenanthrene	ug/L	0.030		0.0086	0.0080		0.0089
Anthracene	ug/L	0.021		0.0077	0.0075		0.0082
Fluoranthene	ug/L	0.13		0.011	0.035		0.016
Pyrene	ug/L	0.066		0.0048	0.011		0.0075
Benzo(a)anthracene	ug/L	0.044		0.0046	0.0079		0.0053
Chrysene	ug/L	0.036		0.0059	0.0075		0.0067
Benzo(b)fluoranthene	ug/L	0.032		0.0081	0.015		0.0095
Benzo(k)fluoranthene	ug/L	0.037		0.0044	0.014		0.0052
Benzo(a)pyrene	ug/L	0.055		0.0045	0.013		0.0078
Dibenz(a,h)anthracene	ug/L	0.12		0.026	0.020		0.0088
Benzo(g,h,i)perylene	ug/L	0.066		0.014	0.023		0.010
Indeno(1,2,3-cd)pyrene	ug/L	0.065		0.011	0.015		0.0064
1-Methylnaphthalene (UV)	ug/L	1.2	1.9		5.0	5.0	
1-Methylnaphthalene (F)	ug/L			0.72			5.6

METALS

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	600GW106	Sampled:	03/08/06
Lab ID:	185408-001	Received:	03/09/06
Matrix:	Filtrate	Prepared:	03/17/06
Units:	ug/L	Analyzed:	03/25/06
Batch#:	111421		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Arsenic	ND	5.0	1.000
Cadmium	ND	1.0	1.000
Calcium	23,000	10,000	20.00
Chromium	ND	10	1.000
Copper	ND	1.0	1.000
Iron	ND	100	1.000
Lead	ND	3.0	1.000
Magnesium	34,000	10,000	20.00
Manganese	820	200	20.00
Nickel	ND	20	1.000
Potassium	ND	500	1.000
Sodium	89,000	10,000	20.00
Zinc	29	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	600GW101	Sampled:	03/08/06
Lab ID:	185408-002	Received:	03/09/06
Matrix:	Filtrate	Prepared:	03/17/06
Units:	ug/L	Analyzed:	03/25/06
Batch#:	111421		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Arsenic	5.1	5.0	1.000
Cadmium	ND	1.0	1.000
Calcium	87,000	10,000	20.00
Chromium	ND	10	1.000
Copper	ND	1.0	1.000
Iron	7,000	100	1.000
Lead	ND	3.0	1.000
Magnesium	44,000	10,000	20.00
Manganese	900	200	20.00
Nickel	ND	20	1.000
Potassium	10,000	500	1.000
Sodium	110,000	10,000	20.00
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	600GW105	Sampled:	03/08/06
Lab ID:	185408-003	Received:	03/09/06
Matrix:	Filtrate	Prepared:	03/17/06
Units:	ug/L	Analyzed:	03/25/06
Batch#:	111421		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Arsenic	ND	5.0	1.000
Cadmium	ND	1.0	1.000
Calcium	32,000	10,000	20.00
Chromium	ND	10	1.000
Copper	ND	1.0	1.000
Iron	2,500	100	1.000
Lead	ND	3.0	1.000
Magnesium	42,000	10,000	20.00
Manganese	3,300	200	20.00
Nickel	ND	20	1.000
Potassium	710	500	1.000
Sodium	96,000	10,000	20.00
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	231GW21	Sampled:	03/08/06
Lab ID:	185408-004	Received:	03/09/06
Matrix:	Filtrate	Prepared:	03/17/06
Units:	ug/L	Analyzed:	03/25/06
Batch#:	111421		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Arsenic	18	5.0	1.000
Cadmium	ND	1.0	1.000
Calcium	60,000	10,000	20.00
Chromium	ND	10	1.000
Copper	ND	1.0	1.000
Iron	21,000	2,000	20.00
Lead	4.6	3.0	1.000
Magnesium	49,000	10,000	20.00
Manganese	970	200	20.00
Nickel	ND	20	1.000
Potassium	4,000	500	1.000
Sodium	47,000	10,000	20.00
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DUP0308061A	Sampled:	03/08/06
Lab ID:	185408-005	Received:	03/09/06
Matrix:	Filtrate	Prepared:	03/17/06
Units:	ug/L	Analyzed:	03/25/06
Batch#:	111421		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Arsenic	22	5.0	1.000
Cadmium	ND	1.0	1.000
Calcium	62,000	10,000	20.00
Chromium	ND	10	1.000
Copper	ND	1.0	1.000
Iron	20,000	2,000	20.00
Lead	6.3	3.0	1.000
Magnesium	57,000	10,000	20.00
Manganese	820	200	20.00
Nickel	ND	20	1.000
Potassium	5,100	500	1.000
Sodium	54,000	10,000	20.00
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	LF01GW01	Batch#:	111388
Lab ID:	185408-006	Sampled:	03/08/06
Matrix:	Filtrate	Received:	03/09/06
Units:	ug/L	Prepared:	03/16/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/24/06
Antimony	ND	1.0	1.000	03/24/06
Arsenic	ND	5.0	1.000	03/24/06
Barium	100	10	1.000	03/24/06
Beryllium	ND	2.0	1.000	03/24/06
Cadmium	ND	1.0	1.000	03/24/06
Calcium	43,000	10,000	20.00	03/25/06
Chromium	ND	10	1.000	03/24/06
Cobalt	ND	10	1.000	03/24/06
Copper	1.8	1.0	1.000	03/24/06
Iron	ND	100	1.000	03/24/06
Lead	ND	3.0	1.000	03/24/06
Magnesium	57,000	10,000	20.00	03/25/06
Manganese	ND	10	1.000	03/24/06
Nickel	ND	20	1.000	03/24/06
Potassium	2,800	500	1.000	03/24/06
Selenium	ND	5.0	1.000	03/24/06
Silver	ND	1.0	1.000	03/24/06
Sodium	27,000	10,000	20.00	03/25/06
Thallium	ND	1.0	1.000	03/24/06
Vanadium	ND	10	1.000	03/24/06
Zinc	ND	20	1.000	03/24/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DUP0308063C	Batch#:	111388
Lab ID:	185408-007	Sampled:	03/08/06
Matrix:	Filtrate	Received:	03/09/06
Units:	ug/L	Prepared:	03/16/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/24/06
Antimony	ND	1.0	1.000	03/24/06
Arsenic	ND	5.0	1.000	03/24/06
Barium	99	10	1.000	03/24/06
Beryllium	ND	2.0	1.000	03/24/06
Cadmium	ND	1.0	1.000	03/24/06
Calcium	42,000	10,000	20.00	03/25/06
Chromium	ND	10	1.000	03/24/06
Cobalt	ND	10	1.000	03/24/06
Copper	1.5	1.0	1.000	03/24/06
Iron	ND	100	1.000	03/24/06
Lead	ND	3.0	1.000	03/24/06
Magnesium	56,000	10,000	20.00	03/25/06
Manganese	ND	10	1.000	03/24/06
Nickel	ND	20	1.000	03/24/06
Potassium	2,700	500	1.000	03/24/06
Selenium	ND	5.0	1.000	03/24/06
Silver	ND	1.0	1.000	03/24/06
Sodium	27,000	10,000	20.00	03/25/06
Thallium	ND	1.0	1.000	03/24/06
Vanadium	ND	10	1.000	03/24/06
Zinc	ND	20	1.000	03/24/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DAESP03	Batch#:	111659
Lab ID:	185408-008	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Prepared:	03/24/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	6,500	4,000	40.00	03/27/06
Antimony	ND	1.0	1.000	03/25/06
Arsenic	ND	5.0	1.000	03/25/06
Barium	85	10	1.000	03/25/06
Beryllium	ND	2.0	1.000	03/25/06
Cadmium	ND	1.0	1.000	03/25/06
Calcium	12,000	500	1.000	03/25/06
Chromium	70	10	1.000	03/25/06
Cobalt	ND	10	1.000	03/25/06
Copper	17	1.0	1.000	03/25/06
Iron	9,800	100	1.000	03/25/06
Lead	16	3.0	1.000	03/25/06
Magnesium	23,000	10,000	20.00	03/25/06
Manganese	130	10	1.000	03/25/06
Nickel	140	20	1.000	03/25/06
Potassium	2,300	500	1.000	03/25/06
Selenium	ND	5.0	1.000	03/25/06
Silver	ND	1.0	1.000	03/25/06
Sodium	26,000	10,000	20.00	03/25/06
Thallium	ND	1.0	1.000	03/27/06
Vanadium	19	10	1.000	03/25/06
Zinc	63	20	1.000	03/25/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DAESP03	Sampled:	03/08/06
Lab ID:	185408-008	Received:	03/09/06
Matrix:	Filtrate	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/24/06
Batch#:	111388		

Analyte	Result	RL	Diln Fac
Aluminum	130	100	1.000
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Barium	35	10	1.000
Beryllium	ND	2.0	1.000
Cadmium	ND	1.0	1.000
Calcium	9,600	500	1.000
Chromium	ND	10	1.000
Cobalt	ND	10	1.000
Copper	6.8	1.0	1.000
Iron	450	100	1.000
Lead	ND	3.0	1.000
Magnesium	17,000	500	1.000
Manganese	23	10	1.000
Nickel	54	20	1.000
Potassium	1,600	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	24,000	10,000	20.00
Thallium	ND	1.0	1.000
Vanadium	ND	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DUP0308063A	Batch#:	111659
Lab ID:	185408-009	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Prepared:	03/24/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	5,400	4,000	40.00	03/27/06
Antimony	ND	1.0	1.000	03/25/06
Arsenic	ND	5.0	1.000	03/25/06
Barium	77	10	1.000	03/25/06
Beryllium	ND	2.0	1.000	03/25/06
Cadmium	ND	1.0	1.000	03/25/06
Calcium	11,000	500	1.000	03/25/06
Chromium	52	10	1.000	03/25/06
Cobalt	ND	10	1.000	03/25/06
Copper	15	1.0	1.000	03/25/06
Iron	8,300	100	1.000	03/25/06
Lead	15	3.0	1.000	03/25/06
Magnesium	19,000	500	1.000	03/25/06
Manganese	110	10	1.000	03/25/06
Nickel	120	20	1.000	03/25/06
Potassium	1,900	500	1.000	03/25/06
Selenium	ND	5.0	1.000	03/25/06
Silver	ND	1.0	1.000	03/25/06
Sodium	28,000	10,000	20.00	03/25/06
Thallium	ND	1.0	1.000	03/25/06
Vanadium	15	10	1.000	03/25/06
Zinc	74	20	1.000	03/25/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DUP0308063A	Batch#:	111388
Lab ID:	185408-009	Sampled:	03/08/06
Matrix:	Filtrate	Received:	03/09/06
Units:	ug/L	Prepared:	03/16/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	100	100	1.000	03/24/06
Antimony	ND	1.0	1.000	03/24/06
Arsenic	ND	5.0	1.000	03/24/06
Barium	35	10	1.000	03/24/06
Beryllium	ND	2.0	1.000	03/24/06
Cadmium	ND	1.0	1.000	03/24/06
Calcium	9,400	500	1.000	03/24/06
Chromium	ND	10	1.000	03/24/06
Cobalt	ND	10	1.000	03/24/06
Copper	6.9	1.0	1.000	03/24/06
Iron	500	100	1.000	03/24/06
Lead	ND	3.0	1.000	03/24/06
Magnesium	16,000	500	1.000	03/24/06
Manganese	26	10	1.000	03/24/06
Nickel	53	20	1.000	03/24/06
Potassium	1,500	500	1.000	03/24/06
Selenium	ND	5.0	1.000	03/24/06
Silver	ND	1.0	1.000	03/24/06
Sodium	20,000	10,000	20.00	03/25/06
Thallium	ND	1.0	1.000	03/24/06
Vanadium	ND	10	1.000	03/24/06
Zinc	22	20	1.000	03/24/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	BB3SW104	Batch#:	111659
Lab ID:	185408-010	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Prepared:	03/24/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	3,200	3,000	30.00	03/27/06
Antimony	ND	1.0	1.000	03/25/06
Arsenic	ND	5.0	1.000	03/25/06
Barium	100	10	1.000	03/25/06
Beryllium	ND	2.0	1.000	03/25/06
Cadmium	ND	1.0	1.000	03/25/06
Calcium	23,000	10,000	20.00	03/25/06
Chromium	26	10	1.000	03/25/06
Cobalt	11	10	1.000	03/25/06
Copper	13	1.0	1.000	03/25/06
Iron	5,400	100	1.000	03/25/06
Lead	14	3.0	1.000	03/25/06
Magnesium	40,000	10,000	20.00	03/25/06
Manganese	320	200	20.00	03/25/06
Nickel	43	20	1.000	03/25/06
Potassium	1,600	500	1.000	03/25/06
Selenium	ND	5.0	1.000	03/25/06
Silver	ND	1.0	1.000	03/25/06
Sodium	44,000	20,000	40.00	03/27/06
Thallium	ND	1.0	1.000	03/25/06
Vanadium	21	10	1.000	03/25/06
Zinc	58	20	1.000	03/25/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	BB3SW104	Sampled:	03/08/06
Lab ID:	185408-010	Received:	03/09/06
Matrix:	Filtrate	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/24/06
Batch#:	111388		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Barium	18	10	1.000
Beryllium	ND	2.0	1.000
Cadmium	ND	1.0	1.000
Calcium	18,000	500	1.000
Chromium	ND	10	1.000
Cobalt	ND	10	1.000
Copper	2.5	1.0	1.000
Iron	ND	100	1.000
Lead	ND	3.0	1.000
Magnesium	32,000	10,000	20.00
Manganese	ND	10	1.000
Nickel	ND	20	1.000
Potassium	1,200	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	44,000	10,000	20.00
Thallium	ND	1.0	1.000
Vanadium	ND	10	1.000
Zinc	24	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DUP0308063B	Batch#:	111659
Lab ID:	185408-011	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Prepared:	03/24/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	4,000	4,000	40.00	03/27/06
Antimony	ND	1.0	1.000	03/25/06
Arsenic	ND	5.0	1.000	03/25/06
Barium	110	10	1.000	03/25/06
Beryllium	ND	2.0	1.000	03/25/06
Cadmium	ND	1.0	1.000	03/25/06
Calcium	24,000	10,000	20.00	03/25/06
Chromium	29	10	1.000	03/25/06
Cobalt	12	10	1.000	03/25/06
Copper	12	1.0	1.000	03/25/06
Iron	6,400	100	1.000	03/25/06
Lead	16	3.0	1.000	03/25/06
Magnesium	41,000	10,000	20.00	03/25/06
Manganese	360	200	20.00	03/25/06
Nickel	45	20	1.000	03/25/06
Potassium	1,500	500	1.000	03/25/06
Selenium	ND	5.0	1.000	03/25/06
Silver	ND	1.0	1.000	03/25/06
Sodium	44,000	20,000	40.00	03/27/06
Thallium	ND	1.0	1.000	03/25/06
Vanadium	24	10	1.000	03/25/06
Zinc	62	20	1.000	03/25/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DUP0308063B	Batch#:	111388
Lab ID:	185408-011	Sampled:	03/08/06
Matrix:	Filtrate	Received:	03/09/06
Units:	ug/L	Prepared:	03/16/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/24/06
Antimony	ND	1.0	1.000	03/24/06
Arsenic	ND	5.0	1.000	03/24/06
Barium	19	10	1.000	03/24/06
Beryllium	ND	2.0	1.000	03/24/06
Cadmium	ND	1.0	1.000	03/24/06
Calcium	18,000	500	1.000	03/24/06
Chromium	ND	10	1.000	03/24/06
Cobalt	ND	10	1.000	03/24/06
Copper	2.7	1.0	1.000	03/24/06
Iron	ND	100	1.000	03/24/06
Lead	ND	3.0	1.000	03/24/06
Magnesium	33,000	10,000	20.00	03/25/06
Manganese	10	10	1.000	03/24/06
Nickel	ND	20	1.000	03/24/06
Potassium	1,100	500	1.000	03/24/06
Selenium	ND	5.0	1.000	03/24/06
Silver	ND	1.0	1.000	03/24/06
Sodium	45,000	10,000	20.00	03/25/06
Thallium	ND	1.0	1.000	03/24/06
Vanadium	ND	10	1.000	03/24/06
Zinc	ND	20	1.000	03/24/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Molybdenum

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Analyte:	Molybdenum	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Prepared:	03/24/06
Diln Fac:	1.000	Analyzed:	03/25/06
Batch#:	111659		

Field ID	Type	Lab ID	Result	RL
DAESP03	SAMPLE	185408-008	ND	1.0
DUP0308063A	SAMPLE	185408-009	ND	1.0
	BLANK	QC332965	ND	1.0

ND= Not Detected
RL= Reporting Limit

341a

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CW 4/25/06

113.0

Curtis & Tompkins, Ltd.

Hardness (Total)

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	SM 2340B
Analyte:	Hardness as CaCO3	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	mg/L	Prepared:	03/24/06
Diln Fac:	1.000	Analyzed:	03/25/06
Batch#:	111659		

Field ID	Type	Lab ID	Result	RL
DAESP03	SAMPLE	185408-008	120	3.3
DUP0308063A	SAMPLE	185408-009	110	3.3
	BLANK	QC332965	ND	3.3

ND= Not Detected
RL= Reporting Limit

76.1

341B

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332965	Batch#:	111659
Matrix:	Water	Prepared:	03/24/06
Units:	ug/L	Analyzed:	03/25/06

Analyte	Result	RL
Aluminum	ND	100
Antimony	ND	1.0
Arsenic	ND	5.0
Barium	ND	10
Beryllium	ND	2.0
Cadmium	ND	1.0
Calcium	ND	500
Chromium	ND	10
Cobalt	ND	10
Copper	ND	1.0
Iron	ND	100
Lead	ND	3.0
Magnesium	ND	500
Manganese	ND	10
Nickel	ND	20
Potassium	ND	500
Selenium	ND	5.0
Silver	ND	1.0
Sodium	ND	500
Thallium	ND	1.0
Vanadium	ND	10
Zinc	ND	20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331831	Batch#:	111388
Matrix:	Filtrate	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/24/06

Analyte	Result	RL
Aluminum	ND	100
Antimony	ND	1.0
Arsenic	ND	5.0
Barium	ND	10
Beryllium	ND	2.0
Cadmium	ND	1.0
Calcium	ND	500
Chromium	ND	10
Cobalt	ND	10
Copper	ND	1.0
Iron	ND	100
Lead	ND	3.0
Magnesium	ND	500
Manganese	ND	10
Nickel	ND	20
Potassium	ND	500
Selenium	ND	5.0
Silver	ND	1.0
Sodium	ND	500
Thallium	ND	1.0
Vanadium	ND	10
Zinc	ND	20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved			
Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331981	Batch#:	111421
Matrix:	Filtrate	Prepared:	03/17/06
Units:	ug/L	Analyzed:	03/25/06

Analyte	Result	RL
Aluminum	ND	100
Arsenic	ND	5.0
Cadmium	ND	1.0
Calcium	ND	500
Chromium	ND	10
Copper	ND	1.0
Iron	ND	100
Lead	ND	3.0
Magnesium	ND	500
Manganese	ND	10
Nickel	ND	20
Potassium	ND	500
Sodium	ND	500
Zinc	ND	20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Mercury by Cold Vapor AA

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Prepared:	03/14/06
Diln Fac:	1.000	Analyzed:	03/14/06
Batch#:	111271		

Field ID	Type	Lab ID	Result	RL
DAESP03	SAMPLE	185408-008	ND	0.20
DUP0308063A	SAMPLE	185408-009	ND	0.20
	BLANK	QC331350	ND	0.20

ND= Not Detected
RL= Reporting Limit

344a

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CW 4/25/06

111.0

Curtis & Tompkins, Ltd.

Dissolved Mercury by Cold Vapor AA

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Sampled:	03/08/06
Units:	ug/L	Received:	03/09/06
Diln Fac:	1.000	Prepared:	03/14/06
Batch#:	111281	Analyzed:	03/14/06

Field ID	Type	Lab ID	Matrix	Result	RL
DAESP03	SAMPLE	185408-008	Filtrate	ND	0.20
DUP0308063A	SAMPLE	185408-009	Filtrate	ND	0.20
	BLANK	QC331395	Water	ND	0.20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Matrix:	Water	Batch#:	111659
Units:	ug/L	Prepared:	03/24/06
Diln Fac:	1.000		

Type: BS Lab ID: QC332966

Analyte	Spiked	Result	%REC	Limits	Analyzed
Aluminum	100.0	103.5	104	80-120	03/27/06
Antimony	100.0	113.5	114	80-120	03/25/06
Arsenic	100.0	100.8	101	80-120	03/25/06
Barium	100.0	106.6	107	80-120	03/25/06
Beryllium	100.0	105.7	106	80-120	03/25/06
Cadmium	100.0	101.7	102	80-120	03/25/06
Calcium	10,000	11,210	112	80-120	03/25/06
Chromium	100.0	106.9	107	80-120	03/25/06
Cobalt	100.0	106.2	106	80-120	03/25/06
Copper	100.0	105.2	105	80-120	03/25/06
Iron	10,000	10,910	109	80-120	03/25/06
Lead	100.0	106.2	106	80-120	03/25/06
Magnesium	10,000	9,906	99	80-120	03/27/06
Manganese	100.0	105.9	106	80-120	03/25/06
Nickel	100.0	108.0	108	80-120	03/25/06
Potassium	10,000	10,650	107	80-120	03/25/06
Selenium	100.0	91.39	91	80-120	03/25/06
Silver	100.0	104.9	105	80-120	03/25/06
Sodium	10,000	9,495	95	80-120	03/27/06
Thallium	100.0	98.37	98	80-120	03/25/06
Vanadium	100.0	100.9	101	80-120	03/25/06
Zinc	100.0	98.44	98	80-120	03/25/06

Type: BSD Lab ID: QC332967

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed
Aluminum	100.0	115.3	115	80-120	11	20	03/27/06
Antimony	100.0	119.0	119	80-120	5	20	03/25/06
Arsenic	100.0	106.1	106	80-120	5	20	03/25/06
Barium	100.0	111.5	112	80-120	4	20	03/25/06
Beryllium	100.0	109.4	109	80-120	3	20	03/25/06
Cadmium	100.0	106.0	106	80-120	4	20	03/25/06
Calcium	10,000	11,690	117	80-120	4	20	03/25/06
Chromium	100.0	112.0	112	80-120	5	20	03/25/06
Cobalt	100.0	110.3	110	80-120	4	20	03/25/06
Copper	100.0	111.0	111	80-120	5	20	03/25/06
Iron	10,000	11,560	116	80-120	6	20	03/25/06
Lead	100.0	110.5	111	80-120	4	20	03/25/06
Magnesium	10,000	10,300	103	80-120	4	20	03/27/06
Manganese	100.0	112.4	112	80-120	6	20	03/25/06
Nickel	100.0	112.1	112	80-120	4	20	03/25/06
Potassium	10,000	11,300	113	80-120	6	20	03/25/06
Selenium	100.0	96.98	97	80-120	6	20	03/25/06
Silver	100.0	110.1	110	80-120	5	20	03/25/06
Sodium	10,000	10,060	101	80-120	6	20	03/27/06
Thallium	100.0	103.7	104	80-120	5	20	03/25/06
Vanadium	100.0	106.6	107	80-120	5	20	03/25/06
Zinc	100.0	103.1	103	80-120	5	20	03/25/06

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Matrix:	Filtrate	Batch#:	111388
Units:	ug/L	Prepared:	03/16/06
Diln Fac:	1.000	Analyzed:	03/24/06

Type: BS Lab ID: QC331832

Analyte	Spiked	Result	%REC	Limits
Aluminum	100.0	99.08	99	80-120
Antimony	100.0	103.2	103	80-120
Arsenic	100.0	102.0	102	80-120
Barium	100.0	95.63	96	80-120
Beryllium	100.0	96.79	97	80-120
Cadmium	100.0	98.33	98	80-120
Calcium	10,000	10,310	103	80-120
Chromium	100.0	99.03	99	80-120
Cobalt	100.0	97.84	98	80-120
Copper	100.0	101.1	101	80-120
Iron	10,000	10,020	100	80-120
Lead	100.0	99.49	99	80-120
Magnesium	10,000	10,210	102	80-120
Manganese	100.0	96.46	96	80-120
Nickel	100.0	99.79	100	80-120
Potassium	10,000	10,410	104	80-120
Selenium	100.0	92.80	93	80-120
Silver	100.0	102.2	102	80-120
Sodium	10,000	10,040	100	80-120
Thallium	100.0	93.11	93	80-120
Vanadium	100.0	97.70	98	80-120
Zinc	100.0	97.64	98	80-120

Type: BSD Lab ID: QC331833

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	100.0	99.94	100	80-120	1	20
Antimony	100.0	104.7	105	80-120	1	20
Arsenic	100.0	102.5	103	80-120	0	20
Barium	100.0	96.60	97	80-120	1	20
Beryllium	100.0	98.58	99	80-120	2	20
Cadmium	100.0	98.35	98	80-120	0	20
Calcium	10,000	10,220	102	80-120	1	20
Chromium	100.0	99.50	100	80-120	0	20
Cobalt	100.0	98.07	98	80-120	0	20
Copper	100.0	101.8	102	80-120	1	20
Iron	10,000	10,080	101	80-120	1	20
Lead	100.0	100.7	101	80-120	1	20
Magnesium	10,000	10,270	103	80-120	1	20
Manganese	100.0	96.51	97	80-120	0	20
Nickel	100.0	101.1	101	80-120	1	20
Potassium	10,000	10,360	104	80-120	0	20
Selenium	100.0	93.27	93	80-120	1	20
Silver	100.0	103.4	103	80-120	1	20
Sodium	10,000	9,984	100	80-120	1	20
Thallium	100.0	94.93	95	80-120	2	20
Vanadium	100.0	96.98	97	80-120	1	20
Zinc	100.0	98.26	98	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Matrix:	Filtrate	Batch#:	111421
Units:	ug/L	Prepared:	03/17/06
Diln Fac:	1.000	Analyzed:	03/25/06

Type: BS Lab ID: QC331982

Analyte	Spiked	Result	%REC	Limits
Aluminum	100.0	96.14	96	80-120
Arsenic	100.0	102.7	103	80-120
Cadmium	100.0	101.2	101	80-120
Calcium	10,000	10,360	104	80-120
Chromium	100.0	100.9	101	80-120
Copper	100.0	101.8	102	80-120
Iron	10,000	10,330	103	80-120
Lead	100.0	100.4	100	80-120
Magnesium	10,000	10,130	101	80-120
Manganese	100.0	99.61	100	80-120
Nickel	100.0	100.9	101	80-120
Potassium	10,000	10,190	102	80-120
Sodium	10,000	9,917	99	80-120
Zinc	100.0	98.61	99	80-120

Type: BSD Lab ID: QC331983

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	100.0	99.25	99	80-120	3	20
Arsenic	100.0	103.6	104	80-120	1	20
Cadmium	100.0	102.4	102	80-120	1	20
Calcium	10,000	10,400	104	80-120	0	20
Chromium	100.0	102.0	102	80-120	1	20
Copper	100.0	103.2	103	80-120	1	20
Iron	10,000	10,330	103	80-120	0	20
Lead	100.0	102.2	102	80-120	2	20
Magnesium	10,000	10,200	102	80-120	1	20
Manganese	100.0	99.77	100	80-120	0	20
Nickel	100.0	102.1	102	80-120	1	20
Potassium	10,000	10,350	104	80-120	2	20
Sodium	10,000	10,100	101	80-120	2	20
Zinc	100.0	107.6	108	80-120	9	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Molybdenum

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Analyte:	Molybdenum	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Prepared:	03/24/06
Diln Fac:	1.000	Analyzed:	03/25/06
Batch#:	111659		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
	BS		QC332966		100.0	102.9	103	80-120		
	BSD		QC332967		100.0	108.1	108	80-120	5	20
DAESP03	MS	185408-008	QC332968	0.9044	100.0	101.9	101	80-120		
DAESP03	MSD	185408-008	QC332969		100.0	100.3	99	80-120	2	20
BB3SW104	MS	185408-010	QC332970	0.2989	100.0	100.4	100	80-120		
BB3SW104	MSD	185408-010	QC332971		100.0	100.7	100	80-120	0	20

RPD= Relative Percent Difference

348a

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114.0

Curtis & Tompkins, Ltd.

Batch QC Report

Mercury by Cold Vapor AA

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	111271
Field ID:	DAESP03	Sampled:	03/08/06
MSS Lab ID:	185408-008	Received:	03/09/06
Matrix:	Water	Prepared:	03/14/06
Units:	ug/L	Analyzed:	03/14/06
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC331352		5.000	5.180	104	80-120		
BSD	QC331353		5.000	5.160	103	80-120	0	20
MS	QC331354	<0.07957	5.000	5.260	105	75-125		
MSD	QC331355		5.000	5.070	101	75-125	4	20

RPD= Relative Percent Difference

348b

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CW 4/25/06

112.0

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Mercury by Cold Vapor AA

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	111281
Field ID:	DAESP03	Sampled:	03/08/06
MSS Lab ID:	185408-008	Received:	03/09/06
Units:	ug/L	Prepared:	03/14/06
Diln Fac:	1.000	Analyzed:	03/14/06

Type	Lab ID	Matrix	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC331397	Water		5.000	5.000	100	80-120		
BSD	QC331398	Water		5.000	5.090	102	80-120	2	20
MS	QC331401	Filtrate	<0.07957	5.000	5.160	103	75-125		
MSD	QC331402	Filtrate		5.000	5.120	102	75-125	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DAESP03	Sampled:	03/08/06
MSS Lab ID:	185408-008	Received:	03/09/06
Matrix:	Water	Prepared:	03/24/06
Units:	ug/L	Analyzed:	03/25/06
Batch#:	111659		

Type: MS Lab ID: QC332968

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln Fac
Aluminum	6,464	100.0	7,485 >LR	1021 NM	75-125	1.000
Antimony	0.9225	100.0	112.9	112	75-125	1.000
Arsenic	1.786	100.0	99.69	98	75-125	1.000
Barium	85.30	100.0	199.2	114	75-125	1.000
Beryllium	0.2383	100.0	103.6	103	75-125	1.000
Cadmium	0.2095	100.0	100.1	100	75-125	1.000
Calcium	11,540	10,000	22,540	110	75-125	20.00
Chromium	70.15	100.0	178.4	108	75-125	1.000
Cobalt	4.088	100.0	109.5	105	75-125	1.000
Copper	17.25	100.0	119.4	102	75-125	1.000
Iron	9,784	10,000	19,170	94	75-125	20.00
Lead	16.11	100.0	123.3	107	75-125	1.000
Magnesium	23,100	10,000	34,350	113	75-125	20.00
Manganese	125.0	100.0	212.6	88	75-125	20.00
Nickel	139.6	100.0	235.5	96	75-125	20.00
Potassium	2,268	10,000	11,870	96	75-125	1.000
Selenium	0.6641	100.0	86.37	86	75-125	1.000
Silver	0.07923	100.0	102.7	103	75-125	1.000
Sodium	25,850	10,000	39,110	133 *	75-125	20.00
Thallium	0.8989	100.0	100.9	100	75-125	1.000
Vanadium	19.10	100.0	127.6	109	75-125	1.000
Zinc	63.46	100.0	144.1	81	75-125	1.000

*= Value outside of QC limits; see narrative
NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DAESP03	Sampled:	03/08/06
MSS Lab ID:	185408-008	Received:	03/09/06
Matrix:	Water	Prepared:	03/24/06
Units:	ug/L	Analyzed:	03/25/06
Batch#:	111659		

Type: MSD Lab ID: QC332969

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
Aluminum	100.0	7,299 >LR	835 NM	75-125	NC	20	1.000
Antimony	100.0	107.2	106	75-125	5	20	1.000
Arsenic	100.0	96.86	95	75-125	3	20	1.000
Barium	100.0	192.8	108	75-125	3	20	1.000
Beryllium	100.0	98.64	98	75-125	5	20	1.000
Cadmium	100.0	97.15	97	75-125	3	20	1.000
Calcium	10,000	20,640	91	75-125	9	20	20.00
Chromium	100.0	172.5	102	75-125	3	20	1.000
Cobalt	100.0	108.6	105	75-125	1	20	1.000
Copper	100.0	117.4	100	75-125	2	20	1.000
Iron	10,000	17,840	81	75-125	7	20	20.00
Lead	100.0	117.5	101	75-125	5	20	1.000
Magnesium	10,000	32,890	98	75-125	4	20	20.00
Manganese	100.0	205.8	81	75-125	3	20	20.00
Nickel	100.0	227.8	88	75-125	3	20	20.00
Potassium	10,000	11,590	93	75-125	2	20	1.000
Selenium	100.0	85.00	84	75-125	2	20	1.000
Silver	100.0	100.3	100	75-125	2	20	1.000
Sodium	10,000	36,380	105	75-125	7	20	20.00
Thallium	100.0	98.67	98	75-125	2	20	1.000
Vanadium	100.0	119.2	100	75-125	7	20	1.000
Zinc	100.0	141.1	78	75-125	2	20	1.000

*= Value outside of QC limits; see narrative
NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	BB3SW104	Sampled:	03/08/06
MSS Lab ID:	185408-010	Received:	03/09/06
Matrix:	Filtrate	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/24/06
Batch#:	111388		

Type: MS Lab ID: QC331834

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln Fac
Aluminum	24.58	100.0	119.0	94	75-125	1.000
Antimony	0.4902	100.0	106.6	106	75-125	1.000
Arsenic	0.8054	100.0	100.8	100	75-125	1.000
Barium	18.10	100.0	119.8	102	75-125	1.000
Beryllium	0.07248	100.0	97.60	98	75-125	1.000
Cadmium	<0.1409	100.0	96.32	96	75-125	1.000
Calcium	17,700	10,000	27,580	99	75-125	20.00
Chromium	8.451	100.0	108.5	100	75-125	1.000
Cobalt	0.3294	100.0	96.24	96	75-125	1.000
Copper	2.455	100.0	99.80	97	75-125	1.000
Iron	86.87	10,000	10,210	101	75-125	1.000
Lead	<0.2399	100.0	104.2	104	75-125	1.000
Magnesium	31,550	10,000	43,600	121	75-125	20.00
Manganese	9.431	100.0	107.5	98	75-125	1.000
Nickel	9.268	100.0	107.0	98	75-125	1.000
Potassium	1,191	10,000	11,190	100	75-125	1.000
Selenium	0.3589	100.0	89.40	89	75-125	1.000
Silver	0.05991	100.0	100.2	100	75-125	1.000
Sodium	43,920	10,000	55,090	112 NM	75-125	20.00
Thallium	0.9831	100.0	96.14	95	75-125	1.000
Vanadium	2.263	100.0	101.5	99	75-125	1.000
Zinc	24.34	100.0	115.6	91	75-125	20.00

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	BB3SW104	Sampled:	03/08/06
MSS Lab ID:	185408-010	Received:	03/09/06
Matrix:	Filtrate	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/24/06
Batch#:	111388		

Type: MSD Lab ID: QC331835

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
Aluminum	100.0	116.5	92	75-125	2	20	1.000
Antimony	100.0	107.0	107	75-125	0	20	1.000
Arsenic	100.0	101.0	100	75-125	0	20	1.000
Barium	100.0	120.2	102	75-125	0	20	1.000
Beryllium	100.0	97.36	97	75-125	0	20	1.000
Cadmium	100.0	98.29	98	75-125	2	20	1.000
Calcium	10,000	27,290	96	75-125	1	20	20.00
Chromium	100.0	110.1	102	75-125	1	20	1.000
Cobalt	100.0	97.79	97	75-125	2	20	1.000
Copper	100.0	100.3	98	75-125	0	20	1.000
Iron	10,000	10,350	103	75-125	1	20	1.000
Lead	100.0	104.3	104	75-125	0	20	1.000
Magnesium	10,000	43,800	123	75-125	0	20	20.00
Manganese	100.0	108.8	99	75-125	1	20	1.000
Nickel	100.0	106.9	98	75-125	0	20	1.000
Potassium	10,000	11,240	100	75-125	0	20	1.000
Selenium	100.0	90.07	90	75-125	1	20	1.000
Silver	100.0	101.7	102	75-125	1	20	1.000
Sodium	10,000	55,160	112 NM	75-125	0	20	20.00
Thallium	100.0	96.99	96	75-125	1	20	1.000
Vanadium	100.0	102.4	100	75-125	1	20	1.000
Zinc	100.0	110.5	86	75-125	5	20	20.00

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DAESP03	Sampled:	03/08/06
MSS Lab ID:	185408-008	Received:	03/09/06
Matrix:	Filtrate	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/24/06
Batch#:	111388		

Type: MS Lab ID: QC331836

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln Fac
Aluminum	125.1	100.0	244.6	120	75-125	20.00
Antimony	0.3902	100.0	109.0	109	75-125	1.000
Arsenic	<0.6516	100.0	102.4	102	75-125	1.000
Barium	34.92	100.0	139.7	105	75-125	1.000
Beryllium	<0.05514	100.0	98.01	98	75-125	1.000
Cadmium	<0.1409	100.0	99.59	100	75-125	1.000
Calcium	9,570	10,000	19,220	97	75-125	20.00
Chromium	7.416	100.0	109.1	102	75-125	1.000
Cobalt	0.6223	100.0	100.1	99	75-125	1.000
Copper	6.843	100.0	108.3	101	75-125	1.000
Iron	445.8	10,000	10,720	103	75-125	1.000
Lead	1.798	100.0	104.7	103	75-125	1.000
Magnesium	17,340	10,000	29,900	126 *	75-125	20.00
Manganese	22.55	100.0	121.7	99	75-125	1.000
Nickel	53.69	100.0	156.2	103	75-125	1.000
Potassium	1,596	10,000	12,080	105	75-125	1.000
Selenium	0.4629	100.0	91.90	91	75-125	1.000
Silver	<0.04084	100.0	102.3	102	75-125	1.000
Sodium	23,620	10,000	32,770	92	75-125	20.00
Thallium	0.3495	100.0	96.19	96	75-125	1.000
Vanadium	2.482	100.0	102.2	100	75-125	1.000
Zinc	17.13	100.0	111.0	94	75-125	1.000

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DAESP03	Sampled:	03/08/06
MSS Lab ID:	185408-008	Received:	03/09/06
Matrix:	Filtrate	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/24/06
Batch#:	111388		

Type: MSD Lab ID: QC331837

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
Aluminum	100.0	233.8	109	75-125	5	20	20.00
Antimony	100.0	106.6	106	75-125	2	20	1.000
Arsenic	100.0	99.86	100	75-125	3	20	1.000
Barium	100.0	137.2	102	75-125	2	20	1.000
Beryllium	100.0	97.17	97	75-125	1	20	1.000
Cadmium	100.0	96.91	97	75-125	3	20	1.000
Calcium	10,000	19,370	98	75-125	1	20	20.00
Chromium	100.0	106.0	99	75-125	3	20	1.000
Cobalt	100.0	98.33	98	75-125	2	20	1.000
Copper	100.0	106.2	99	75-125	2	20	1.000
Iron	10,000	10,550	101	75-125	2	20	1.000
Lead	100.0	104.3	103	75-125	0	20	1.000
Magnesium	10,000	29,260	119	75-125	2	20	20.00
Manganese	100.0	119.6	97	75-125	2	20	1.000
Nickel	100.0	153.3	100	75-125	2	20	1.000
Potassium	10,000	11,680	101	75-125	3	20	1.000
Selenium	100.0	89.47	89	75-125	3	20	1.000
Silver	100.0	101.5	102	75-125	1	20	1.000
Sodium	10,000	32,730	91	75-125	0	20	20.00
Thallium	100.0	96.69	96	75-125	1	20	1.000
Vanadium	100.0	100.2	98	75-125	2	20	1.000
Zinc	100.0	109.6	92	75-125	1	20	1.000

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	600GW101	Batch#:	111421
MSS Lab ID:	185408-002	Sampled:	03/08/06
Matrix:	Filtrate	Received:	03/09/06
Units:	ug/L	Prepared:	03/17/06
Diln Fac:	1.000	Analyzed:	03/25/06

Type: MS Lab ID: QC331984

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aluminum	2.797	100.0	92.88	90	75-125
Arsenic	5.104	100.0	102.9	98	75-125
Cadmium	<0.1409	100.0	94.51	95	75-125
Calcium	86,580	10,000	98,350 >LR	118 NM	75-125
Chromium	1.092	100.0	102.9	102	75-125
Copper	0.4789	100.0	93.83	93	75-125
Iron	6,952	10,000	17,600	106	75-125
Lead	<0.2399	100.0	106.7	107	75-125
Magnesium	43,940	10,000	51,950 >LR	80 NM	75-125
Manganese	897.2	100.0	1,063 >LR	166 NM	75-125
Nickel	2.209	100.0	96.21	94	75-125
Potassium	10,140	10,000	19,470	93	75-125
Sodium	111,200	10,000	119,300 >LR	81 NM	75-125
Zinc	1.498	100.0	89.35	88	75-125

Type: MSD Lab ID: QC331985

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	100.0	95.57	93	75-125	3	20
Arsenic	100.0	102.2	97	75-125	1	20
Cadmium	100.0	94.30	94	75-125	0	20
Calcium	10,000	99,990 >LR	134 NM	75-125	NC	20
Chromium	100.0	102.8	102	75-125	0	20
Copper	100.0	93.47	93	75-125	0	20
Iron	10,000	17,620	107	75-125	0	20
Lead	100.0	106.4	106	75-125	0	20
Magnesium	10,000	52,050 >LR	81 NM	75-125	NC	20
Manganese	100.0	1,065 >LR	168 NM	75-125	NC	20
Nickel	100.0	96.61	94	75-125	0	20
Potassium	10,000	19,470	93	75-125	0	20
Sodium	10,000	119,300 >LR	81 NM	75-125	NC	20
Zinc	100.0	89.19	88	75-125	0	20

NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	600GW101	Units:	ug/L
Type:	Serial Dilution	Batch#:	111421
MSS Lab ID:	185408-002	Sampled:	03/08/06
Lab ID:	QC331986	Received:	03/09/06
Matrix:	Filtrate	Analyzed:	03/25/06

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Diln Fac
Aluminum	ND	100.0	14.33 J	500.0		10	5.000
Arsenic	5.104	5.000	5.675 J	25.00		10	5.000
Cadmium	ND	1.000	ND	5.000		10	5.000
Calcium	86,580	10,000	85,560	50,000	1	10	100.0
Chromium	ND	10.00	0.8830 J	50.00		10	5.000
Copper	ND	1.000	ND	5.000		10	5.000
Iron	6,952	100.0	6,720	500.0	3	10	5.000
Lead	ND	3.000	ND	15.00		10	5.000
Magnesium	43,940	10,000	41,020 J	50,000	7	10	100.0
Manganese	897.2	200.0	896.9 J	1,000	0	10	100.0
Nickel	ND	20.00	4.093 J	100.0		10	5.000
Potassium	10,140	500.0	9,815	2,500	3	10	5.000
Sodium	111,200	10,000	109,600	50,000	1	10	100.0
Zinc	ND	20.00	ND	100.0		10	5.000

J= Estimated value
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DAESP03	Units:	ug/L
Type:	Serial Dilution	Batch#:	111388
MSS Lab ID:	185408-008	Sampled:	03/08/06
Lab ID:	QC331838	Received:	03/09/06
Matrix:	Filtrate	Analyzed:	03/24/06

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Diln Fac
Aluminum	125.1	100.0	126.0 J	500.0	1	10	5.000
Antimony	ND	1.000	ND	5.000		10	5.000
Arsenic	ND	5.000	ND	25.00		10	5.000
Barium	34.92	10.00	35.18 J	50.00	1	10	5.000
Beryllium	ND	2.000	ND	10.00		10	5.000
Cadmium	ND	1.000	ND	5.000		10	5.000
Calcium	9,570	500.0	9,113	2,500	5	10	5.000
Chromium	ND	10.00	7.217 J	50.00	3	10	5.000
Cobalt	ND	10.00	0.6166 J	50.00		10	5.000
Copper	6.843	1.000	7.008	5.000		10	5.000
Iron	445.8	100.0	422.5 J	500.0	5	10	5.000
Lead	ND	3.000	1.736 J	15.00		10	5.000
Magnesium	17,340	500.0	18,060	2,500	4	10	5.000
Manganese	22.55	10.00	22.78 J	50.00	1	10	5.000
Nickel	53.69	20.00	53.93 J	100.0	0	10	5.000
Potassium	1,596	500.0	1,659 J	2,500	4	10	5.000
Selenium	ND	5.000	ND	25.00		10	5.000
Silver	ND	1.000	ND	5.000		10	5.000
Sodium	23,620	10,000	24,650 J	50,000	4	10	100.0
Thallium	ND	1.000	0.7319 J	5.000		10	5.000
Vanadium	ND	10.00	2.073 J	50.00		10	5.000
Zinc	ND	20.00	20.65 J	100.0		10	5.000

J= Estimated value
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Molybdenum			
Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Analyte:	Molybdenum	Units:	ug/L
Field ID:	DAESP03	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	111659
MSS Lab ID:	185408-008	Sampled:	03/08/06
Lab ID:	QC332972	Received:	03/09/06
Matrix:	Water	Analyzed:	03/25/06

MSS Result	MSS RL	Result	RL	% Diff Lim
ND	1.000	3.015 J	5.000	10

J= Estimated value
ND= Not Detected
RL= Reporting Limit

358a

REVISED
CW 4/25/06

115.0

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET05
Seqnum: 56120449110
File : c2415110
IDF : 1.0
Lab ID: 185408-002
Matrix: Filtrate
Batch : 111421
Time : 25-MAR-2006 01:34
Cal : 56120449001
Units : ug/L

Type : PDS
Inst : MET05
Seqnum: 56120449114
File : c2415114
IDF : 1.0
Lab ID: QC331987
Matrix: Filtrate
Batch : 111421
Time : 25-MAR-2006 01:56
Cal : 56120449001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (100X), 05WS0207

Analyte	MSS	Spiked	PDS	%Rec	Limits	Flags
Aluminum	2.797	100.0	96.05	93	75-125	
Antimony	0.3726	100.0	104.3	104	75-125	
Arsenic	5.104	100.0	103.2	98	75-125	
Barium	15.06	100.0	113.3	98	75-125	
Beryllium	ND	100.0	92.25	92	75-125	
Cadmium	ND	100.0	95.00	95	75-125	
Chromium	1.092	100.0	103.8	103	75-125	
Cobalt	0.7763	100.0	97.42	97	75-125	
Copper	0.4789	100.0	94.32	94	75-125	
Iron	6952	10000	17540	106	75-125	
Lead	ND	100.0	107.8	108	75-125	
Molybdenum	0.3105	100.0	104.3	104	75-125	
Nickel	2.209	100.0	96.60	94	75-125	
Potassium	10140	10000	19220	91	75-125	
Selenium	0.3668	100.0	86.10	86	75-125	
Silver	ND	100.0	97.63	98	75-125	
Thallium	0.1767	100.0	98.58	98	75-125	
Vanadium	0.8220	100.0	104.0	103	75-125	
Zinc	1.498	100.0	88.16	87	75-125	

ISTD (ICALBLK c2415003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	988200	732944	-25.83
Scandium	562292	421383	-25.06
Germanium	180440	125876	-30.24
Indium	1368410	941699	-31.18
Bismuth	1333700	837344	-37.22

MISSING READINGS: **CA MG MN NA**

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET05
Seqnum: 56120449115
File : c2415115
IDF : 20.0
Lab ID: 185408-002
Matrix: Filtrate
Batch : 111421
Time : 25-MAR-2006 02:02
Cal : 56120449001
Units : ug/L

Type : PDS
Inst : MET05
Seqnum: 56120449119
File : c2415119
IDF : 20.0
Lab ID: QC331987
Matrix: Filtrate
Batch : 111421
Time : 25-MAR-2006 02:24
Cal : 56120449001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (2000X), 05WS0207

Analyte	MSS	Spiked	PDS	%Rec	Limits	Flags
Aluminum	2.660	5.000	5.760	**62***	75-125	
Antimony	ND	5.000	4.959	99	75-125	
Arsenic	ND	5.000	5.355	107	75-125	
Barium	0.7085	5.000	5.270	91	75-125	
Beryllium	ND	5.000	4.650	93	75-125	
Cadmium	ND	5.000	4.907	98	75-125	
Calcium	4329	500.0	4793	93	75-125	:
Chromium	0.08620	5.000	4.862	96	75-125	
Cobalt	0.06890	5.000	4.772	94	75-125	
Copper	ND	5.000	4.835	97	75-125	
Iron	339.1	500.0	797.0	92	75-125	
Lead	ND	5.000	4.616	92	75-125	
Magnesium	2197	500.0	2757	112	75-125	:
Manganese	44.86	5.000	49.34	90	75-125	:
Molybdenum	0.1265	5.000	4.810	94	75-125	
Nickel	ND	5.000	4.877	98	75-125	
Potassium	509.0	500.0	1002	99	75-125	
Selenium	ND	5.000	5.075	102	75-125	
Silver	ND	5.000	5.005	100	75-125	
Sodium	5560	500.0	6170	122	75-125	:
Thallium	1.296	5.000	4.142	**57***	75-125	
Vanadium	ND	5.000	4.629	93	75-125	
Zinc	ND	5.000	7.095	**142***	75-125	

ISTD (ICALBLK c2415003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	988200	827809	-16.23
Scandium	562292	454117	-19.24
Germanium	180440	144977	-19.65
Indium	1368410	1098643	-19.71
Bismuth	1333700	1077590	-19.20

:=recovery not meaningful

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET05
Seqnum: 56120449064
File : c2415064
IDF : 1.0
Lab ID: 185408-008
Matrix: Filtrate
Batch : 111388
Time : 24-MAR-2006 21:18
Cal : 56120449001
Units : ug/L

Type : PDS
Inst : MET05
Seqnum: 56120449073
File : c2415073
IDF : 1.0
Lab ID: QC331839
Matrix: Filtrate
Batch : 111388
Time : 24-MAR-2006 22:09
Cal : 56120449001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (100X), 05WS0207

Analyte	MSS	Spiked	PDS	%Rec	Limits	Flags
Aluminum	125.1	100.0	241.7 >LR	117	75-125	>LR **b***
Antimony	0.3902	100.0	105.1	105	75-125	
Arsenic	ND	100.0	99.90	100	75-125	
Barium	34.92	100.0	134.6	100	75-125	
Beryllium	ND	100.0	97.85	98	75-125	
Cadmium	ND	100.0	96.62	97	75-125	
Calcium	9570	10000	19910	103	75-125	
Chromium	7.416	100.0	105.9	98	75-125	
Cobalt	0.6223	100.0	97.53	97	75-125	
Copper	6.843	100.0	106.0	99	75-125	
Iron	445.8	10000	10470	100	75-125	
Lead	1.798	100.0	105.8	104	75-125	
Magnesium	17340	10000	27200 >LR	99	75-125	>LR **b***
Manganese	22.55	100.0	118.4	96	75-125	
Molybdenum	0.1349	100.0	101.2	101	75-125	
Nickel	53.69	100.0	152.2	99	75-125	
Potassium	1596	10000	11770	102	75-125	
Selenium	0.4629	100.0	89.55	89	75-125	
Silver	ND	100.0	100.8	101	75-125	
Thallium	0.3495	100.0	97.28	97	75-125	
Vanadium	2.482	100.0	99.39	97	75-125	
Zinc	17.13	100.0	107.9	91	75-125	

ISTD (ICALBLK c2415003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	988200	821562	-16.86
Scandium	562292	448903	-20.17
Germanium	180440	137575	-23.76
Indium	1368410	984025	-28.09
Bismuth	1333700	903300	-32.27

MISSING READINGS: **NA**

>LR=overrange b=noncompliant

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET05
Seqnum: 56120449077
File : c2415077
IDF : 20.0
Lab ID: 185408-008
Matrix: Filtrate
Batch : 111388
Time : 24-MAR-2006 22:31
Cal : 56120449001
Units : ug/L

Type : PDS
Inst : MET05
Seqnum: 56120449081
File : c2415081
IDF : 20.0
Lab ID: QC331839
Matrix: Filtrate
Batch : 111388
Time : 24-MAR-2006 22:53
Cal : 56120449001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (2000X), 05WS0207

Analyte	MSS	Spiked	PDS	%Rec	Limits	Flags
Aluminum	12.36	5.000	11.40	**-19***	75-125	
Antimony	ND	5.000	5.015	100	75-125	
Arsenic	ND	5.000	5.010	100	75-125	
Barium	1.855	5.000	6.365	90	75-125	
Beryllium	ND	5.000	4.849	97	75-125	
Cadmium	ND	5.000	5.290	106	75-125	
Calcium	510.0	500.0	941.0	86	75-125	
Chromium	0.4092	5.000	5.280	97	75-125	
Cobalt	0.07350	5.000	4.902	97	75-125	
Copper	0.5145	5.000	5.380	97	75-125	
Iron	41.03	500.0	496.2	91	75-125	
Lead	ND	5.000	4.664	93	75-125	
Magnesium	909.5	500.0	1432	105	75-125	
Manganese	1.312	5.000	6.000	94	75-125	
Molybdenum	0.1843	5.000	4.835	93	75-125	
Nickel	2.836	5.000	7.635	96	75-125	
Potassium	90.00	500.0	609.0	104	75-125	
Selenium	ND	5.000	5.440	109	75-125	
Silver	ND	5.000	5.235	105	75-125	
Sodium	1181	500.0	1594	83	75-125	
Thallium	1.206	5.000	4.314	**62***	75-125	
Vanadium	ND	5.000	4.870	97	75-125	
Zinc	1.283	5.000	6.375	102	75-125	

ISTD (ICALBLK c2415003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	988200	876342	-11.32
Scandium	562292	471766	-16.10
Germanium	180440	152091	-15.71
Indium	1368410	1151606	-15.84
Bismuth	1333700	1142680	-14.32

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : PDS
Inst : MET05
Seqnum: 56121987032
File : c2517032
IDF : 1.0
Lab ID: QC332973
Matrix: Water
Batch : 111659
Time : 25-MAR-2006 20:02
Cal : 56121987001
MSS : 185408-008
Units : ug/L

PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (100X), 05WS0207

Analyte	MSS Seqnum	Result	Spiked	PDS	%Rec	Limits	Flags
Antimony	56121987022	0.9225	100.0	111.4	110	75-125	
Arsenic	56121987022	1.786	100.0	98.59	97	75-125	
Barium	56121987022	85.30	100.0	199.8	115	75-125	
Beryllium	56121987022	0.2383	100.0	101.5	101	75-125	
Cadmium	56121987022	0.2095	100.0	99.24	99	75-125	
Calcium	56121987022	11540	10000	22040 >LR	105	75-125	>LR **b***
Chromium	56121987022	70.15	100.0	177.1	107	75-125	
Cobalt	56121987022	4.088	100.0	109.8	106	75-125	
Copper	56121987022	17.25	100.0	120.4	103	75-125	
Iron	56121987022	9784	10000	20530 >LR	107	75-125	>LR **b***
Lead	56121987022	16.11	100.0	120.6	104	75-125	
Magnesium	56124633017	19060	10000	32790 >LR	137	75-125	>LR **b***
Manganese	56121987022	125.0	100.0	233.4 >LR	108	75-125	>LR **b***
Molybdenum	56121987022	0.9044	100.0	101.4	100	75-125	
Nickel	56121987022	139.6	100.0	244.9 >LR	105	75-125	>LR **b***
Potassium	56121987022	2268	10000	12210	99	75-125	
Selenium	56121987022	0.6641	100.0	85.69	85	75-125	
Silver	56121987022	0.07923	100.0	102.9	103	75-125	
Thallium	56124633017	0.8989	100.0	100.2	99	75-125	
Vanadium	56121987022	19.10	100.0	122.1	103	75-125	
Zinc	56121987022	63.46	100.0	144.5	81	75-125	

ISTD (ICALBLK c2517003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	1139817	1010044	-11.39
Scandium	634190	520381	-17.95
Germanium	133389	116904	-12.36
Indium	777897	665591	-14.44
Bismuth	641813	528978	-17.58

MISSING READINGS: **AL NA**

>LR=overrange b=noncompliant

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET05
Seqnum: 56121987024
File : c2517024
IDF : 20.0
Lab ID: 185408-008
Matrix: Water
Batch : 111659
Time : 25-MAR-2006 19:18
Cal : 56121987001
Units : ug/L

Type : PDS
Inst : MET05
Seqnum: 56121987035
File : c2517035
IDF : 20.0
Lab ID: QC332973
Matrix: Water
Batch : 111659
Time : 25-MAR-2006 20:19
Cal : 56121987001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (2000X), 05WS0207

Analyte	MSS	Spiked	PDS	%Rec	Limits	Flags
Antimony	ND	5.000	5.080	102	75-125	
Arsenic	ND	5.000	4.822	96	75-125	
Barium	4.148	5.000	9.025	98	75-125	
Beryllium	ND	5.000	4.995	100	75-125	
Cadmium	ND	5.000	5.225	105	75-125	
Calcium	593.0	500.0	1068	95	75-125	
Chromium	3.440	5.000	8.350	98	75-125	
Cobalt	0.2146	5.000	5.220	100	75-125	
Copper	0.9715	5.000	5.990	100	75-125	
Iron	452.0	500.0	936.5	97	75-125	
Lead	0.7360	5.000	5.365	93	75-125	
Magnesium	1155	500.0	1690	107	75-125	
Manganese	5.870	5.000	10.81	99	75-125	
Molybdenum	0.08635	5.000	4.710	92	75-125	
Nickel	6.860	5.000	11.77	98	75-125	
Potassium	121.1	500.0	611.5	98	75-125	
Selenium	ND	5.000	4.710	94	75-125	
Silver	ND	5.000	4.845	97	75-125	
Sodium	1293	500.0	1877	117	75-125	
Thallium	0.1181	5.000	4.407	86	75-125	
Vanadium	0.8565	5.000	5.545	94	75-125	
Zinc	3.665	5.000	9.440	116	75-125	

ISTD (ICALBLK c2517003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	1139817	1110325	-2.59
Scandium	634190	560766	-11.58
Germanium	133389	130309	-2.31
Indium	777897	776050	-0.24
Bismuth	641813	631539	-1.60

MISSING READINGS: **AL**

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56120449001
Units : ug/L

Date : 24-MAR-2006 15:41
X Axis : R

Reviewer: ---
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	c2415004	56120449004	CS1	24-MAR-2006 15:46	S2889
L2	c2415005	56120449005	CS2	24-MAR-2006 15:52	S2890
L3	c2415006	56120449006	CS3	24-MAR-2006 15:57	S2891
L4	c2415007	56120449007	CS4	24-MAR-2006 16:03	S2892
L5	c2415008	56120449008	CS5	24-MAR-2006 16:09	S2886
L6	c2415009	56120449009	CS6	24-MAR-2006 16:14	S2887

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		1.8605	1.1946	0.4907	0.4094	0.4097	BLNK	-1.6870	2.46573		0.8730	1.000	0.995	
Antimony	0.1780	0.1434	0.1257	0.1098	0.1029	0.1019	BLNK	-0.1664	9.80139		0.1269	1.000	0.995	
Arsenic		0.2728	0.2620	0.2056	0.2010	0.1990	BLNK	-0.1452	5.01868		0.2281	1.000	0.995	
Barium	0.0583	0.0574	0.0479	0.0444	0.0446	0.0453	BLNK	-0.0450	22.1682		0.0496	1.000	0.995	
Beryllium	0.0661	0.0593	0.0607	0.0585	0.0590	0.0588	BLNK	-0.0029	17.0061		0.0604	1.000	0.995	
Cadmium	0.5468	0.4191	0.3292	0.2506	0.2312	0.2236	BLNK	-0.3575	4.45075		0.3334	1.000	0.995	
Calcium		0.0121	0.0104	0.0088	0.0089	0.0088	BLNK	-15.467	113.905		0.0098	1.000	0.995	
Chromium		2.3744	1.7967	1.1375	1.0851	1.0705	BLNK	-0.6189	0.93502		1.4929	1.000	0.995	
Cobalt	1.6505	1.5760	1.5236	1.4844	1.4616	1.4745	BLNK	-0.0218	0.67948		1.5284	1.000	0.995	
Copper		0.7293	0.6445	0.4408	0.3931	0.3808	BLNK	-0.3058	2.61347		0.5177	1.000	0.995	
Iron		0.0506	0.0428	0.0355	0.0358	0.0349	BLNK	-21.353	28.5285		0.0399	1.000	0.995	
Lead	0.5069	0.5076	0.4807	0.4612	0.4729	0.4717	BLNK	-0.0318	2.11926		0.4835	1.000	0.995	
Magnesium		0.0517	0.0515	0.0513	0.0513	0.0492	BLNK	-1.4769	20.1503		0.0510	1.000	0.995	
Manganese	2.2757	2.0345	1.9020	1.6279	1.5790	1.6056	BLNK	-0.0591	0.62511		1.8374	1.000	0.995	
Molybdenum		0.4345	0.4191	0.4041	0.4047	0.4013	BLNK	-0.0797	2.48909		0.4127	1.000	0.995	
Nickel	0.6375	0.4675	0.4141	0.3391	0.3194	0.3117	BLNK	-0.1830	3.19569		0.4149	1.000	0.995	
Potassium		0.6418	0.4774	0.3254	0.3000	0.2894	BLNK	-57.377	3.44186		0.4068	1.000	0.995	
Selenium		0.0460	0.0348	0.0223	0.0207	0.0199	BLNK	-0.4990	50.0105		0.0287	1.000	0.995	
Silver	1.1672	1.0952	1.1200	1.0903	1.0505	1.0242	BLNK	-0.0141	0.97135		1.0912	1.000	0.995	
Sodium		0.6166	0.6212	0.5282	0.5092	0.4996	BLNK	-10.059	1.99501		0.5550	1.000	0.995	
Thallium		0.3411	0.3263	0.3031	0.3335	0.3464	BLNK	-0.0388	2.91011		0.3301	1.000	0.995	
Vanadium		1.3448	1.3988	1.2138	1.2039	1.2363	BLNK	-0.1996	0.81418		1.2795	1.000	0.995	
Zinc		1.2572	0.8374	0.3067	0.2462	0.2333	BLNK	-1.6768	4.28153		0.5762	0.999	0.995	

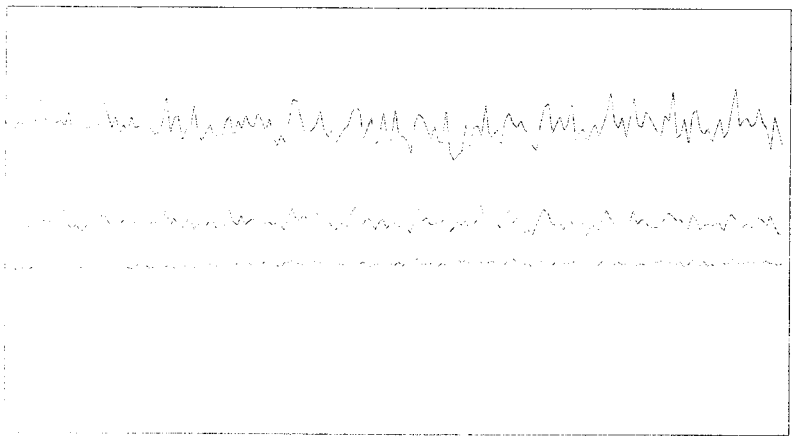
365

BLNK=Y=aX+[blank]

Instrument amount = a0 + response * a1 + response^2 * a2

Tune Report

Tune File : ATUNE.U



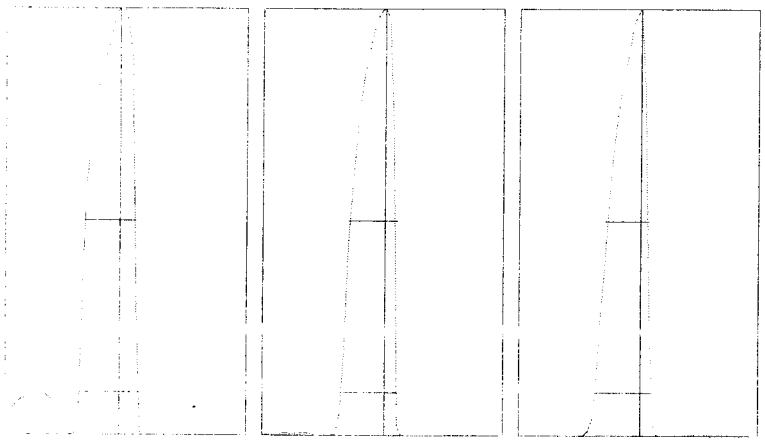
m/z:	7	89	205
Range:	20,000	50,000	50,000
Count:	13,609	23,577	20,220
Mean:	14435.6	24900.6	19936.6
RSD%:	4.15	2.70	1.95
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.45%
Doubly Charged:	70/140	0.87%

Background:

m/z:	7	89	205
Cps:	3.6	2.7	3.4



m/z:	7	89	205
Height:	14,342	24,842	20,339
Axis:	6.95	89.05	205.05
W-50%:	0.65	0.60	0.55
W-10%:	0.7500	0.700	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===			===Ion Lenses===			===Q-Pole Parameters===	
RF Power:	1210	W	Extract 1:	-156.2	V	AMU Gain:	129
RF Matching:	1.62	V	Extract 2:	-96	V	AMU Offset:	127
Smpl Depth:	7	mm	Einzel 1,3:	-66	V	Axis Gain:	0.9998
Torch-H:	0	mm	Einzel 2:	16	V	Axis Offset:	-0.07
Torch-V:	0.4	mm	Omega Bias:	-33	V	QP Bias:	1.5 V
Carrier Gas:	1.14	L/min	Omega (+):	1	V		
Makeup Gas:	0	L/min	Omega (-):	-6.7	V	===Detector Parameters===	
Optional Gas:	---	%	QP Focus:	7.1	V	Discriminator:	8.7 mV
PeriPump1:	0.1	rps	Plate Bias:	-12.5	V	Analog HV:	1760 V
PeriPump2:	---	rps				Pulse HV:	1200 V
S/C Temp:	2	degC					

Generated : Mar 24, 2006 09:36:10
Printed : Mar 24, 2006 09:36:18

P/A Factor Tuning Report

Acquired:Mar 24 2006 09:58 am

Mass[amu]	Element	P/A Factor
6	Li	0.069890
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.091599
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.096622
45	Sc	0.093601
51	V	0.096393
52	Cr	0.098039
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.100615
57	Fe	0.103163
59	Co	0.102826
60	Ni	Sensitivity too low
63	Cu	0.103753
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.103865
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.109250
111	Cd	Sensitivity too low
114	Cd	0.107106
115	In	0.111014
118	(In)	Sensitivity too high
121	Sb	0.107751
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.115795
166	Er	Sensitivity too low

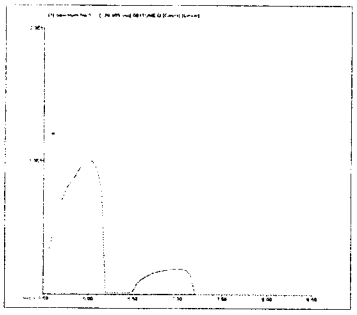
```
    205        Tl    0.119230
    206      (Pb)    0.115740
    207      (Pb)  Sensitivity too low
    208        Pb    0.118111
    209        Bi    0.119285

===Detector Parameters===
  Discriminator: 8.7 mV
      Analog HV: 1760 V
       Pulse HV: 1200 V
```

6020 QC Tune Report

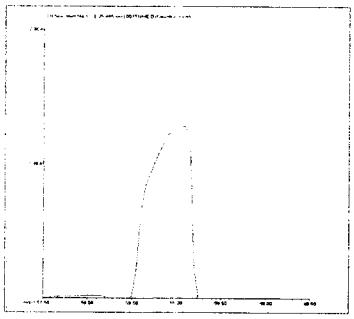
Data File: C:\ICPCHEM\1\DATA\06C2415a.B\001TUNE.D
Date Acquired: Mar 24 2006 03:29 pm
Acq. Method: TN6020.M
Operator:
Sample Name: TUN,S2898
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

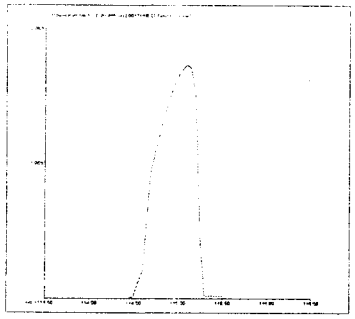
Element	Actual	Required	Flag
7 Li	0.91	5.00	
59 Co	0.65	5.00	
115 In	0.92	5.00	
205 Tl	0.37	5.00	



7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



115 In

Mass Calib.

Actual: 115.10

Required: 114.90 - 115.10

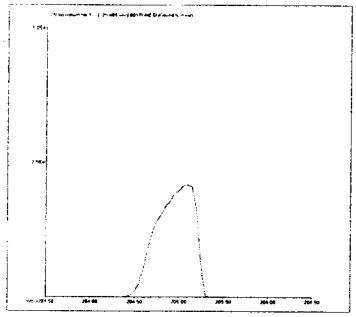
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



205 Tl

Mass Calib.

Actual: 205.10

Required: 204.90 - 205.10

Flag:

Peak Width

Actual: 0.65

Required: 0.90

Flag:

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2415A.B\002BLNK.D\002BLNK.D#
Date Acquired:	Mar 24 2006 03:35 pm
Acq. Method:	60200111.M
Operator:	
Sample Name:	RINSE
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update:	Mar 24 2006 11:26 am
Sample Type:	6-Blank
Dilution Factor:	1.00

QC Elements

Element	Corr. Conc.		RSD(%)	Raw Conc.	High Limit	Flag
9 Be	-0.001015	ppb	161.38	-0.001015	1.00	
23 Na	-1.738	ppb	92.98	-1.738	1.00	
26 Mg	-0.8588	ppb	49.65	-0.8588	1.00	
27 Al	-1.781	ppb	24.15	-1.781	1.00	
39 K	0.3404	ppb	385.72	0.3404	1.00	
44 Ca	-6.799	ppb	22.49	-6.799	1.00	
51 V	0.03006	ppb	56.52	0.03006	1.00	
52 Cr	-0.06791	ppb	29.58	-0.06791	1.00	
55 Mn	-0.003013	ppb	187.09	-0.003013	1.00	
57 Fe	2.081	ppb	32.68	2.081	1.00	
59 Co	-0.00569	ppb	52.51	-0.00569	1.00	
60 Ni	0.01019	ppb	89.53	0.01019	1.00	
65 Cu	-0.1327	ppb	25.97	-0.1327	1.00	
66 Zn	-0.02679	ppb	304.18	-0.02679	1.00	
75 As	-0.2177	ppb	66.61	-0.2177	1.00	
82 Se	-0.1506	ppb	182.20	-0.1506	1.00	
95 Mo	0.02955	ppb	8.31	0.02955	1.00	
109 Ag	-0.006384	ppb	7.97	-0.006384	1.00	
111 Cd	0.05344	ppb	67.35	0.05344	1.00	
121 Sb	0.08967	ppb	16.39	0.08967	1.00	
137 Ba	-0.0177	ppb	20.78	-0.0177	1.00	
205 Tl	0.009955	ppb	109.49	0.009955	1.00	
208 Pb	-0.002155	ppb	105.01	-0.002155	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	988486.00	0.86	---	#VALUE!	80 - 120	
45 Sc	582573.75	2.56	---	#VALUE!	80 - 120	
72 Ge	181827.56	0.52	---	#VALUE!	80 - 120	
115 In	1400126.40	0.48	---	#VALUE!	80 - 120	
209 Bi	1349633.10	0.73	---	#VALUE!	80 - 120	

ISTD Ref File : ---

1 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes:	Fail
ISTD:	Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2415a.B\003CAL
Date Acquired:	Mar 24 2006 03:41 pm
Operator:	
Sample Name:	std-blk
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 24 2006 11:26 am
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	988199.50	A	16580.00	1.68
9	Be	3.33	P	3.33	99.99
23	Na	56710.00	P	10620.00	18.73
26	Mg	824.44	P	365.40	44.32
27	Al	7695.56	P	3062.00	39.79
39	K	187473.30	P	1880.00	1.00
44	Ca	1527.23	P	215.90	14.14
45	Sc	562292.19	P	586.20	0.10
51	V	884.61	P	109.60	12.39
52	Cr	2388.89	P	49.14	2.06
55	Mn	341.11	P	3.85	1.13
57	Fe	2701.11	P	177.70	6.58
59	Co	115.56	P	37.91	32.81
60	Ni	206.67	P	12.02	5.82
65	Cu	422.22	P	30.06	7.12
66	Zn	1413.33	P	56.96	4.03
72	Ge	180440.20	P	158.70	0.09
75	As	104.41	P	105.20	100.75
82	Se	36.00	P	14.34	39.83
95	Mo	115.56	P	33.72	29.18
109	Ag	52.22	P	6.94	13.29
111	Cd	289.93	P	46.06	15.89
115	In	1368410.00	A	7751.00	0.57
121	Sb	464.44	P	30.97	6.67
137	Ba	55.56	P	7.70	13.86
205	Tl	355.56	P	8.39	2.36
208	Pb	400.00	P	52.39	13.10
209	Bi	1333700.00	A	8509.00	0.64

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\004CALI.D\004CALI.D#
Date Acquired: Mar 24 2006 03:46 pm
Operator:
Sample Name: CS1,S2889
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 03:42 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	988584.31	A	14250.00	1.44
9	Be	326.67	P	21.86	6.69
23	Na	202917.80	P	2848.00	1.40
26	Mg	14972.22	P	65.52	0.44
27	Al	10315.56	P	1244.00	12.06
39	K	272992.19	P	890.10	0.33
44	Ca	4467.14	P	154.80	3.47
45	Sc	554806.63	P	3427.00	0.62
51	V	1905.36	P	245.40	12.88
52	Cr	3317.78	P	66.78	2.01
55	Mn	2034.44	P	56.80	2.79
57	Fe	5817.78	P	117.10	2.01
59	Co	1475.56	P	71.21	4.83
60	Ni	570.00	P	43.33	7.60
65	Cu	977.71	P	21.17	2.17
66	Zn	1907.70	P	62.03	3.25
72	Ge	178790.91	P	886.40	0.50
75	As	251.72	P	27.27	10.83
82	Se	55.78	P	9.44	16.92
95	Mo	477.78	P	37.47	7.84
109	Ag	1043.33	P	35.12	3.37
111	Cd	488.90	P	35.84	7.33
115	In	1341015.00	A	6675.00	0.50
121	Sb	1193.33	P	51.75	4.34
137	Ba	391.11	P	10.72	2.74
205	Tl	2348.89	P	38.63	1.64
208	Pb	3326.67	P	105.90	3.18
209	Bi	1312303.00	A	12540.00	0.96

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	988584.31	1.44	988199.56	100.0	80 - 120	

45	Sc	554806.63	0.62	562292.19	98.7	80 -	120
72	Ge	178790.89	0.50	180440.23	99.1	80 -	120
115	In	1341014.50	0.50	1368409.90	98.0	80 -	120
209	Bi	1312303.50	0.96	1333700.40	98.4	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\005CALI.D\005CALI.D#
Date Acquired: Mar 24 2006 03:52 pm
Operator:
Sample Name: CS2,S2890
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 03:48 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	983386.19	A	20930.00	2.13
9	Be	582.22	P	26.74	4.59
23	Na	341757.81	P	1515.00	0.44
26	Mg	28675.56	P	189.60	0.66
27	Al	10312.22	P	184.10	1.79
39	K	355686.69	P	1252.00	0.35
44	Ca	6701.30	P	215.50	3.22
45	Sc	554336.88	M	9431.00	1.70
51	V	2396.94	P	53.61	2.24
52	Cr	4232.22	P	26.94	0.64
55	Mn	3626.67	P	78.81	2.17
57	Fe	9024.44	P	150.20	1.66
59	Co	2808.89	P	123.60	4.40
60	Ni	833.33	P	49.10	5.89
65	Cu	1299.88	P	78.10	6.01
66	Zn	2240.97	P	59.66	2.66
72	Ge	178246.41	P	1375.00	0.77
75	As	486.77	P	125.60	25.80
82	Se	82.00	P	11.10	13.54
95	Mo	774.44	P	15.75	2.03
109	Ag	1952.22	P	67.52	3.46
111	Cd	746.83	P	54.02	7.23
115	In	1332685.00	A	9908.00	0.74
121	Sb	1911.11	P	45.01	2.36
137	Ba	764.44	P	25.24	3.30
205	Tl	4411.11	P	140.00	3.17
208	Pb	6561.11	P	36.57	0.56
209	Bi	1292847.00	A	16910.00	1.31

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	983386.19	2.13	988199.56	99.5	80 - 120	

45	Sc	554336.88	1.70	562292.19	98.6	80 -	120
72	Ge	178246.44	0.77	180440.23	98.8	80 -	120
115	In	1332685.30	0.74	1368409.90	97.4	80 -	120
209	Bi	1292846.90	1.31	1333700.40	96.9	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2415a.B\006CALI.D\006CALI.D#
Date Acquired:	Mar 24 2006 03:57 pm
Operator:	
Sample Name:	CS3,S2891
Misc Info:	
Vial Number:	1104
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 24 2006 03:54 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	985103.31	A	8703.00	0.88
9	Be	1195.56	P	36.72	3.07
23	Na	688407.38	A	3988.00	0.58
26	Mg	57041.11	P	294.30	0.52
27	Al	13238.89	P	252.20	1.91
39	K	529102.19	P	763.10	0.14
44	Ca	11580.14	P	164.50	1.42
45	Sc	554111.13	P	3908.00	0.71
51	V	5051.42	P	449.10	8.89
52	Cr	6488.89	P	302.00	4.65
55	Mn	6868.89	P	209.40	3.05
57	Fe	15464.44	P	82.28	0.53
59	Co	5502.22	P	218.30	3.97
60	Ni	1495.56	P	40.05	2.68
65	Cu	2327.53	P	133.70	5.74
66	Zn	3024.16	P	25.46	0.84
72	Ge	180561.80	P	500.50	0.28
75	As	946.08	P	64.35	6.80
82	Se	125.78	P	16.52	13.13
95	Mo	1513.33	P	64.38	4.25
109	Ag	4044.44	P	156.90	3.88
111	Cd	1188.60	P	74.62	6.28
115	In	1334888.00	A	4909.00	0.37
121	Sb	3355.55	P	105.70	3.15
137	Ba	1280.00	P	47.26	3.69
205	Tl	8486.67	P	141.80	1.67
208	Pb	12502.22	P	158.10	1.26
209	Bi	1300466.00	A	6211.00	0.48

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	985103.31	0.88	988199.56	99.7	80 - 120	

45	Sc	554111.06	0.71	562292.19	98.5	80 -	120
72	Ge	180561.77	0.28	180440.23	100.1	80 -	120
115	In	1334887.50	0.37	1368409.90	97.6	80 -	120
209	Bi	1300466.30	0.48	1333700.40	97.5	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\007CALI.D\007CALI.D#
Date Acquired: Mar 24 2006 04:03 pm
Operator:
Sample Name: CS4,S2892
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 03:59 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	1013057.00	A	4024.00	0.40
9 Be	11861.11	P	195.00	1.64
23 Na	5832080.00	A	6041.00	0.10
26 Mg	566326.63	P	3938.00	0.70
27 Al	54172.22	P	546.60	1.01
39 K	3592013.00	A	32590.00	0.91
44 Ca	97328.51	P	309.90	0.32
45 Sc	552032.19	P	2550.00	0.46
51 V	43931.11	P	1029.00	2.34
52 Cr	41168.89	P	360.30	0.88
55 Mn	58915.55	P	361.00	0.61
57 Fe	128450.00	P	1593.00	1.24
59 Co	53722.22	P	576.60	1.07
60 Ni	12272.22	P	121.60	0.99
65 Cu	15954.22	P	391.80	2.46
66 Zn	11101.61	P	118.60	1.07
72 Ge	180956.00	P	1160.00	0.64
75 As	7441.71	P	66.56	0.89
82 Se	807.56	P	57.47	7.12
95 Mo	14624.44	P	99.13	0.68
109 Ag	39456.67	P	803.00	2.04
111 Cd	9067.72	P	165.20	1.82
115 In	1319021.00	A	9345.00	0.71
121 Sb	28952.22	P	399.00	1.38
137 Ba	11704.44	P	38.63	0.33
205 Tl	78612.22	P	2265.00	2.88
208 Pb	119622.20	P	721.70	0.60
209 Bi	1297106.00	A	16000.00	1.23

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1013056.60	0.40	988199.56	102.5	80 - 120	

45	Sc	552032.19	0.46	562292.19	98.2	80 -	120
72	Ge	180956.00	0.64	180440.23	100.3	80 -	120
115	In	1319021.30	0.71	1368409.90	96.4	80 -	120
209	Bi	1297106.00	1.23	1333700.40	97.3	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**

ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\008CALI.D\008CALI.D#
Date Acquired: Mar 24 2006 04:09 pm
Operator:
Sample Name: CS5,S2886
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 04:05 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	997164.81	A	7526.00	0.75
9	Be	117577.80	P	984.80	0.84
23	Na	55690040.00	A	264000.00	0.47
26	Mg	5606693.00	A	73650.00	1.31
27	Al	447697.69	P	891.30	0.20
39	K	32802080.00	A	398000.00	1.21
44	Ca	972650.31	A	8226.00	0.85
45	Sc	546950.00	P	9618.00	1.76
51	V	429694.59	P	3616.00	0.84
52	Cr	387310.00	P	2856.00	0.74
55	Mn	563601.13	P	5703.00	1.01
57	Fe	1277209.00	A	14640.00	1.15
59	Co	521696.59	P	6118.00	1.17
60	Ni	113996.70	P	552.30	0.48
65	Cu	140295.70	P	1531.00	1.09
66	Zn	87865.30	P	1053.00	1.20
72	Ge	178472.91	P	2302.00	1.29
75	As	71733.88	P	463.20	0.65
82	Se	7376.44	P	94.50	1.28
95	Mo	144456.70	P	655.50	0.45
109	Ag	374954.41	P	2785.00	0.74
111	Cd	82518.75	P	744.80	0.90
115	In	1276593.00	A	7314.00	0.57
121	Sb	262628.91	P	1502.00	0.57
137	Ba	113897.80	P	1607.00	1.41
205	Tl	814328.88	P	8399.00	1.03
208	Pb	1154651.00	P	12360.00	1.07
209	Bi	1220765.00	A	9341.00	0.77

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	997164.75	0.75	988199.56	100.9	80 - 120	

45	Sc	546950.00	1.76	562292.19	97.3	80 - 120
72	Ge	178472.89	1.29	180440.23	98.9	80 - 120
115	In	1276592.60	0.57	1368409.90	93.3	80 - 120
209	Bi	1220764.50	0.77	1333700.40	91.5	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\009CALI.D\009CALI.D#
Date Acquired: Mar 24 2006 04:14 pm
Operator:
Sample Name: CS6,S2887
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 04:10 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	969750.81	A	13270.00	1.37
9 Be	227935.50	P	2011.00	0.88
23 Na	109416300.00	A	1294000.00	1.18
26 Mg	10779680.00	A	214700.00	1.99
27 Al	897228.88	A	10640.00	1.19
39 K	63376860.00	A	47640.00	0.08
44 Ca	1918831.00	A	26230.00	1.37
45 Sc	547532.19	P	4418.00	0.81
51 V	878675.19	A	3703.00	0.42
52 Cr	760898.69	M	5958.00	0.78
55 Mn	1141159.00	A	20010.00	1.75
57 Fe	2482416.00	A	19690.00	0.79
59 Co	1047991.00	A	8862.00	0.85
60 Ni	221525.50	P	186.80	0.08
65 Cu	270644.00	P	960.70	0.35
66 Zn	165786.09	P	126.90	0.08
72 Ge	177688.00	P	688.10	0.39
75 As	141459.20	P	636.00	0.45
82 Se	14143.11	P	72.27	0.51
95 Mo	285186.69	P	476.60	0.17
109 Ag	727951.13	P	1026.00	0.14
111 Cd	158931.50	P	617.80	0.39
115 In	1239353.00	A	6776.00	0.55
121 Sb	505296.59	P	1214.00	0.24
137 Ba	224328.91	P	625.60	0.28
205 Tl	1646884.00	A	9703.00	0.59
208 Pb	2243062.00	A	8326.00	0.37
209 Bi	1188714.00	A	4321.00	0.36

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	969750.81	1.37	988199.56	98.1	80 - 120	

45	Sc	547532.19	0.81	562292.19	97.4	80 -	120
72	Ge	177688.00	0.39	180440.23	98.5	80 -	120
115	In	1239352.60	0.55	1368409.90	90.6	80 -	120
209	Bi	1188713.90	0.36	1333700.40	89.1	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449010 File : c2415010 Time : 24-MAR-2006 16:19
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2895

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	0.8730	0.4231	100.0	102.6	ug/L	3	10	
Antimony	0.1269	0.1074	100.0	105.1	ug/L	5	10	
Arsenic	0.2281	0.2052	100.0	102.8	ug/L	3	10	
Barium	0.0496	0.0462	100.0	102.3	ug/L	2	10	
Beryllium	0.0604	0.0600	100.0	102.0	ug/L	2	10	
Cadmium	0.3334	0.2329	100.0	103.3	ug/L	3	10	
Calcium	0.0098	0.0093	10000	10530	ug/L	5	10	
Chromium	1.4929	1.0962	100.0	101.9	ug/L	2	10	
Cobalt	1.5284	1.4811	100.0	100.6	ug/L	1	10	
Copper	0.5177	0.3977	100.0	103.6	ug/L	4	10	
Iron	0.0399	0.0366	10000	10410	ug/L	4	10	
Lead	0.4835	0.4753	100.0	100.7	ug/L	1	10	
Magnesium	0.0510	0.0521	10000	10500	ug/L	5	10	
Manganese	1.8374	1.5975	100.0	99.80	ug/L	0	10	
Molybdenum	0.4127	0.4099	100.0	101.9	ug/L	2	10	
Nickel	0.4149	0.3241	100.0	103.4	ug/L	3	10	
Potassium	0.4068	0.3080	10000	10540	ug/L	5	10	
Selenium	0.0287	0.0209	100.0	104.2	ug/L	4	10	
Silver	1.0912	1.0643	100.0	103.4	ug/L	3	10	
Sodium	0.5550	0.5247	10000	10460	ug/L	5	10	
Thallium	0.3301	0.3378	100.0	98.26	ug/L	-2	10	
Vanadium	1.2795	1.2206	100.0	99.18	ug/L	-1	10	
Zinc	0.5762	0.2498	100.0	105.3	ug/L	5	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	958842	-2.97
Scandium	562292	528272	-6.05
Germanium	180440	174083	-3.52
Indium	1368410	1218569	-10.95
Bismuth	1333700	1195887	-10.33

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449024 File : c2415024 Time : 24-MAR-2006 17:37
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.4129	150.0	151.0	ug/L	1	10	
Antimony	0.1269	0.0990	150.0	145.4	ug/L	-3	10	
Arsenic	0.2281	0.2000	150.0	150.4	ug/L	0	10	
Barium	0.0496	0.0446	150.0	148.2	ug/L	-1	10	
Beryllium	0.0604	0.0589	150.0	150.1	ug/L	0	10	
Cadmium	0.3334	0.2238	150.0	149.0	ug/L	-1	10	
Calcium	0.0098	0.0088	15000	14940	ug/L	0	10	
Chromium	1.4929	1.0549	150.0	147.3	ug/L	-2	10	
Cobalt	1.5284	1.4238	150.0	145.1	ug/L	-3	10	
Copper	0.5177	0.3830	150.0	149.8	ug/L	0	10	
Iron	0.0399	0.0346	15000	14780	ug/L	-1	10	
Lead	0.4835	0.4685	150.0	148.9	ug/L	-1	10	
Magnesium	0.0510	0.0498	15000	15070	ug/L	0	10	
Manganese	1.8374	1.5333	150.0	143.7	ug/L	-4	10	
Molybdenum	0.4127	0.3979	150.0	148.5	ug/L	-1	10	
Nickel	0.4149	0.3113	150.0	149.1	ug/L	-1	10	
Potassium	0.4068	0.2962	15000	15230	ug/L	2	10	
Selenium	0.0287	0.0204	150.0	152.6	ug/L	2	10	
Silver	1.0912	1.0203	150.0	148.6	ug/L	-1	10	
Sodium	0.5550	0.5002	15000	14960	ug/L	0	10	
Thallium	0.3301	0.3509	150.0	153.1	ug/L	2	10	
Vanadium	1.2795	1.1809	150.0	144.0	ug/L	-4	10	
Zinc	0.5762	0.2375	150.0	150.8	ug/L	1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	974542	-1.38
Scandium	562292	535254	-4.81
Germanium	180440	170147	-5.70
Indium	1368410	1196955	-12.53
Bismuth	1333700	1140941	-14.45

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449039 File : c2415039 Time : 24-MAR-2006 19:00
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.4015	150.0	146.8	ug/L	-2	10	
Antimony	0.1269	0.1007	150.0	147.8	ug/L	-1	10	
Arsenic	0.2281	0.2009	150.0	151.1	ug/L	1	10	
Barium	0.0496	0.0443	150.0	147.2	ug/L	-2	10	
Beryllium	0.0604	0.0584	150.0	149.1	ug/L	-1	10	
Cadmium	0.3334	0.2271	150.0	151.3	ug/L	1	10	
Calcium	0.0098	0.0089	15000	15250	ug/L	2	10	
Chromium	1.4929	1.0600	150.0	148.1	ug/L	-1	10	
Cobalt	1.5284	1.4254	150.0	145.3	ug/L	-3	10	
Copper	0.5177	0.3797	150.0	148.5	ug/L	-1	10	
Iron	0.0399	0.0347	15000	14850	ug/L	-1	10	
Lead	0.4835	0.4635	150.0	147.3	ug/L	-2	10	
Magnesium	0.0510	0.0503	15000	15200	ug/L	1	10	
Manganese	1.8374	1.5394	150.0	144.3	ug/L	-4	10	
Molybdenum	0.4127	0.4016	150.0	149.8	ug/L	0	10	
Nickel	0.4149	0.3094	150.0	148.1	ug/L	-1	10	
Potassium	0.4068	0.3002	15000	15440	ug/L	3	10	
Selenium	0.0287	0.0204	150.0	152.2	ug/L	1	10	
Silver	1.0912	1.0257	150.0	149.4	ug/L	0	10	
Sodium	0.5550	0.5050	15000	15100	ug/L	1	10	
Thallium	0.3301	0.3447	150.0	150.4	ug/L	0	10	
Vanadium	1.2795	1.1903	150.0	145.2	ug/L	-3	10	
Zinc	0.5762	0.2357	150.0	149.7	ug/L	0	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	953180	-3.54
Scandium	562292	509681	-9.36
Germanium	180440	163182	-9.56
Indium	1368410	1155967	-15.52
Bismuth	1333700	1119152	-16.09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449053 File : c2415053 Time : 24-MAR-2006 20:18
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.4036	150.0	147.6	ug/L	-2	10	
Antimony	0.1269	0.1014	150.0	149.0	ug/L	-1	10	
Arsenic	0.2281	0.1989	150.0	149.6	ug/L	0	10	
Barium	0.0496	0.0447	150.0	148.7	ug/L	-1	10	
Beryllium	0.0604	0.0579	150.0	147.6	ug/L	-2	10	
Cadmium	0.3334	0.2257	150.0	150.3	ug/L	0	10	
Calcium	0.0098	0.0090	15000	15330	ug/L	2	10	
Chromium	1.4929	1.0611	150.0	148.2	ug/L	-1	10	
Cobalt	1.5284	1.4204	150.0	144.8	ug/L	-3	10	
Copper	0.5177	0.3793	150.0	148.4	ug/L	-1	10	
Iron	0.0399	0.0351	15000	15010	ug/L	0	10	
Lead	0.4835	0.4670	150.0	148.4	ug/L	-1	10	
Magnesium	0.0510	0.0501	15000	15140	ug/L	1	10	
Manganese	1.8374	1.5439	150.0	144.7	ug/L	-4	10	
Molybdenum	0.4127	0.4017	150.0	149.9	ug/L	0	10	
Nickel	0.4149	0.3087	150.0	147.8	ug/L	-1	10	
Potassium	0.4068	0.2959	15000	15220	ug/L	1	10	
Selenium	0.0287	0.0201	150.0	150.3	ug/L	0	10	
Silver	1.0912	1.0297	150.0	150.0	ug/L	0	10	
Sodium	0.5550	0.5104	15000	15260	ug/L	2	10	
Thallium	0.3301	0.3480	150.0	151.9	ug/L	1	10	
Vanadium	1.2795	1.1920	150.0	145.4	ug/L	-3	10	
Zinc	0.5762	0.2370	150.0	150.5	ug/L	0	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	938741	-5.00
Scandium	562292	499396	-11.19
Germanium	180440	159991	-11.33
Indium	1368410	1139949	-16.70
Bismuth	1333700	1112291	-16.60

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449069 File : c2415069 Time : 24-MAR-2006 21:46
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3905	150.0	142.7	ug/L	-5	10	
Antimony	0.1269	0.1011	150.0	148.5	ug/L	-1	10	
Arsenic	0.2281	0.2001	150.0	150.5	ug/L	0	10	
Barium	0.0496	0.0442	150.0	147.0	ug/L	-2	10	
Beryllium	0.0604	0.0589	150.0	150.2	ug/L	0	10	
Cadmium	0.3334	0.2261	150.0	150.6	ug/L	0	10	
Calcium	0.0098	0.0089	15000	15210	ug/L	1	10	
Chromium	1.4929	1.0480	150.0	146.4	ug/L	-2	10	
Cobalt	1.5284	1.4064	150.0	143.3	ug/L	-4	10	
Copper	0.5177	0.3769	150.0	147.4	ug/L	-2	10	
Iron	0.0399	0.0347	15000	14840	ug/L	-1	10	
Lead	0.4835	0.4577	150.0	145.5	ug/L	-3	10	
Magnesium	0.0510	0.0493	15000	14910	ug/L	-1	10	
Manganese	1.8374	1.5318	150.0	143.6	ug/L	-4	10	
Molybdenum	0.4127	0.4024	150.0	150.2	ug/L	0	10	
Nickel	0.4149	0.3087	150.0	147.8	ug/L	-1	10	
Potassium	0.4068	0.2976	15000	15310	ug/L	2	10	
Selenium	0.0287	0.0204	150.0	152.2	ug/L	1	10	
Silver	1.0912	1.0257	150.0	149.4	ug/L	0	10	
Sodium	0.5550	0.4976	15000	14880	ug/L	-1	10	
Thallium	0.3301	0.3441	150.0	150.2	ug/L	0	10	
Vanadium	1.2795	1.1868	150.0	144.7	ug/L	-4	10	
Zinc	0.5762	0.2343	150.0	148.8	ug/L	-1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	867540	-12.21
Scandium	562292	477594	-15.06
Germanium	180440	152734	-15.35
Indium	1368410	1090823	-20.29
Bismuth	1333700	1069936	-19.78

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449083 File : c2415083 Time : 24-MAR-2006 23:04
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3890	150.0	142.2	ug/L	-5	10	
Antimony	0.1269	0.1006	150.0	147.7	ug/L	-2	10	
Arsenic	0.2281	0.2005	150.0	150.8	ug/L	1	10	
Barium	0.0496	0.0442	150.0	146.9	ug/L	-2	10	
Beryllium	0.0604	0.0578	150.0	147.5	ug/L	-2	10	
Cadmium	0.3334	0.2266	150.0	151.0	ug/L	1	10	
Calcium	0.0098	0.0088	15000	14980	ug/L	0	10	
Chromium	1.4929	1.0475	150.0	146.3	ug/L	-2	10	
Cobalt	1.5284	1.4041	150.0	143.1	ug/L	-5	10	
Copper	0.5177	0.3773	150.0	147.6	ug/L	-2	10	
Iron	0.0399	0.0349	15000	14930	ug/L	0	10	
Lead	0.4835	0.4601	150.0	146.2	ug/L	-3	10	
Magnesium	0.0510	0.0489	15000	14770	ug/L	-2	10	
Manganese	1.8374	1.5247	150.0	142.9	ug/L	-5	10	
Molybdenum	0.4127	0.4026	150.0	150.2	ug/L	0	10	
Nickel	0.4149	0.3090	150.0	147.9	ug/L	-1	10	
Potassium	0.4068	0.2930	15000	15070	ug/L	0	10	
Selenium	0.0287	0.0205	150.0	153.0	ug/L	2	10	
Silver	1.0912	1.0286	150.0	149.9	ug/L	0	10	
Sodium	0.5550	0.4899	15000	14650	ug/L	-2	10	
Thallium	0.3301	0.3434	150.0	149.9	ug/L	0	10	
Vanadium	1.2795	1.1846	150.0	144.5	ug/L	-4	10	
Zinc	0.5762	0.2341	150.0	148.7	ug/L	-1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	864072	-12.56
Scandium	562292	469597	-16.49
Germanium	180440	149631	-17.07
Indium	1368410	1083146	-20.85
Bismuth	1333700	1052352	-21.10

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449097 File : c2415097 Time : 25-MAR-2006 00:22
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3725	150.0	136.1	ug/L	-9	10	
Antimony	0.1269	0.0981	150.0	144.0	ug/L	-4	10	
Arsenic	0.2281	0.1963	150.0	147.7	ug/L	-2	10	
Barium	0.0496	0.0433	150.0	144.0	ug/L	-4	10	
Beryllium	0.0604	0.0564	150.0	143.9	ug/L	-4	10	
Cadmium	0.3334	0.2281	150.0	152.0	ug/L	1	10	
Calcium	0.0098	0.0087	15000	14830	ug/L	-1	10	
Chromium	1.4929	1.0532	150.0	147.1	ug/L	-2	10	
Cobalt	1.5284	1.4082	150.0	143.5	ug/L	-4	10	
Copper	0.5177	0.3704	150.0	144.9	ug/L	-3	10	
Iron	0.0399	0.0350	15000	14960	ug/L	0	10	
Lead	0.4835	0.4510	150.0	143.3	ug/L	-4	10	
Magnesium	0.0510	0.0470	15000	14210	ug/L	-5	10	
Manganese	1.8374	1.5455	150.0	144.9	ug/L	-3	10	
Molybdenum	0.4127	0.3955	150.0	147.6	ug/L	-2	10	
Nickel	0.4149	0.3040	150.0	145.5	ug/L	-3	10	
Potassium	0.4068	0.2874	15000	14780	ug/L	-1	10	
Selenium	0.0287	0.0202	150.0	150.8	ug/L	1	10	
Silver	1.0912	1.0216	150.0	148.8	ug/L	-1	10	
Sodium	0.5550	0.4786	15000	14310	ug/L	-5	10	
Thallium	0.3301	0.3353	150.0	146.3	ug/L	-2	10	
Vanadium	1.2795	1.1797	150.0	143.9	ug/L	-4	10	
Zinc	0.5762	0.2328	150.0	147.8	ug/L	-1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	850311	-13.95
Scandium	562292	475066	-15.51
Germanium	180440	150588	-16.54
Indium	1368410	1119011	-18.23
Bismuth	1333700	1086373	-18.54

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449107 File : c2415107 Time : 25-MAR-2006 01:18
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3939	150.0	144.0	ug/L	-4	10	
Antimony	0.1269	0.1003	150.0	147.3	ug/L	-2	10	
Arsenic	0.2281	0.1975	150.0	148.5	ug/L	-1	10	
Barium	0.0496	0.0443	150.0	147.4	ug/L	-2	10	
Beryllium	0.0604	0.0568	150.0	144.8	ug/L	-3	10	
Cadmium	0.3334	0.2281	150.0	151.9	ug/L	1	10	
Calcium	0.0098	0.0089	15000	15180	ug/L	1	10	
Chromium	1.4929	1.0646	150.0	148.7	ug/L	-1	10	
Cobalt	1.5284	1.4165	150.0	144.4	ug/L	-4	10	
Copper	0.5177	0.3741	150.0	146.3	ug/L	-2	10	
Iron	0.0399	0.0350	15000	14970	ug/L	0	10	
Lead	0.4835	0.4613	150.0	146.6	ug/L	-2	10	
Magnesium	0.0510	0.0486	15000	14680	ug/L	-2	10	
Manganese	1.8374	1.5548	150.0	145.7	ug/L	-3	10	
Molybdenum	0.4127	0.4007	150.0	149.5	ug/L	0	10	
Nickel	0.4149	0.3090	150.0	147.9	ug/L	-1	10	
Potassium	0.4068	0.2900	15000	14910	ug/L	-1	10	
Selenium	0.0287	0.0205	150.0	153.2	ug/L	2	10	
Silver	1.0912	1.0347	150.0	150.7	ug/L	0	10	
Sodium	0.5550	0.4900	15000	14650	ug/L	-2	10	
Thallium	0.3301	0.3535	150.0	154.3	ug/L	3	10	
Vanadium	1.2795	1.1929	150.0	145.5	ug/L	-3	10	
Zinc	0.5762	0.2366	150.0	150.3	ug/L	0	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	839407	-15.06
Scandium	562292	458026	-18.54
Germanium	180440	146831	-18.63
Indium	1368410	1077183	-21.28
Bismuth	1333700	1042410	-21.84

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449121 File : c2415121 Time : 25-MAR-2006 02:35
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3883	150.0	141.9	ug/L	-5	10	
Antimony	0.1269	0.1005	150.0	147.6	ug/L	-2	10	
Arsenic	0.2281	0.2013	150.0	151.4	ug/L	1	10	
Barium	0.0496	0.0444	150.0	147.6	ug/L	-2	10	
Beryllium	0.0604	0.0572	150.0	145.8	ug/L	-3	10	
Cadmium	0.3334	0.2289	150.0	152.4	ug/L	2	10	
Calcium	0.0098	0.0090	15000	15330	ug/L	2	10	
Chromium	1.4929	1.0671	150.0	149.0	ug/L	-1	10	
Cobalt	1.5284	1.4221	150.0	144.9	ug/L	-3	10	
Copper	0.5177	0.3755	150.0	146.9	ug/L	-2	10	
Iron	0.0399	0.0353	15000	15110	ug/L	1	10	
Lead	0.4835	0.4629	150.0	147.1	ug/L	-2	10	
Magnesium	0.0510	0.0490	15000	14810	ug/L	-1	10	
Manganese	1.8374	1.5638	150.0	146.6	ug/L	-2	10	
Molybdenum	0.4127	0.4017	150.0	149.9	ug/L	0	10	
Nickel	0.4149	0.3077	150.0	147.3	ug/L	-2	10	
Potassium	0.4068	0.2977	15000	15310	ug/L	2	10	
Selenium	0.0287	0.0208	150.0	155.6	ug/L	4	10	
Silver	1.0912	1.0362	150.0	151.0	ug/L	1	10	
Sodium	0.5550	0.4969	15000	14860	ug/L	-1	10	
Thallium	0.3301	0.3483	150.0	152.0	ug/L	1	10	
Vanadium	1.2795	1.2049	150.0	147.0	ug/L	-2	10	
Zinc	0.5762	0.2378	150.0	151.1	ug/L	1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	806356	-18.40
Scandium	562292	440073	-21.74
Germanium	180440	142136	-21.23
Indium	1368410	1039855	-24.01
Bismuth	1333700	1008839	-24.36

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56120449133 File : c2415133
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

IDF : 1.0
Time : 25-MAR-2006 03:42

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.4002	150.0	146.3	ug/L	-2	10	
Antimony	0.1269	0.1023	150.0	150.3	ug/L	0	10	
Arsenic	0.2281	0.2028	150.0	152.5	ug/L	2	10	
Barium	0.0496	0.0449	150.0	149.4	ug/L	0	10	
Beryllium	0.0604	0.0581	150.0	148.2	ug/L	-1	10	
Cadmium	0.3334	0.2332	150.0	155.3	ug/L	4	10	
Calcium	0.0098	0.0091	15000	15600	ug/L	4	10	
Chromium	1.4929	1.0854	150.0	151.6	ug/L	1	10	
Cobalt	1.5284	1.4355	150.0	146.3	ug/L	-2	10	
Copper	0.5177	0.3813	150.0	149.2	ug/L	-1	10	
Iron	0.0399	0.0356	15000	15210	ug/L	1	10	
Lead	0.4835	0.4738	150.0	150.6	ug/L	0	10	
Magnesium	0.0510	0.0499	15000	15090	ug/L	1	10	
Manganese	1.8374	1.5904	150.0	149.1	ug/L	-1	10	
Molybdenum	0.4127	0.4100	150.0	153.0	ug/L	2	10	
Nickel	0.4149	0.3117	150.0	149.2	ug/L	-1	10	
Potassium	0.4068	0.2973	15000	15290	ug/L	2	10	
Selenium	0.0287	0.0209	150.0	156.3	ug/L	4	10	
Silver	1.0912	1.0499	150.0	153.0	ug/L	2	10	
Sodium	0.5550	0.4993	15000	14930	ug/L	0	10	
Thallium	0.3301	0.3542	150.0	154.6	ug/L	3	10	
Vanadium	1.2795	1.2217	150.0	149.0	ug/L	-1	10	
Zinc	0.5762	0.2396	150.0	152.2	ug/L	1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	813402	-17.69
Scandium	562292	443206	-21.18
Germanium	180440	140547	-22.11
Indium	1368410	1028681	-24.83
Bismuth	1333700	979894	-26.53

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449148 File : c2415148 Time : 25-MAR-2006 05:06
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3917	150.0	143.2	ug/L	-5	10	
Antimony	0.1269	0.0989	150.0	145.3	ug/L	-3	10	
Arsenic	0.2281	0.1986	150.0	149.4	ug/L	0	10	
Barium	0.0496	0.0436	150.0	144.8	ug/L	-3	10	
Beryllium	0.0604	0.0570	150.0	145.3	ug/L	-3	10	
Cadmium	0.3334	0.2187	150.0	145.6	ug/L	-3	10	
Calcium	0.0098	0.0089	15000	15150	ug/L	1	10	
Chromium	1.4929	1.0417	150.0	145.5	ug/L	-3	10	
Cobalt	1.5284	1.3878	150.0	141.4	ug/L	-6	10	
Copper	0.5177	0.3702	150.0	144.8	ug/L	-3	10	
Iron	0.0399	0.0343	15000	14670	ug/L	-2	10	
Lead	0.4835	0.4544	150.0	144.4	ug/L	-4	10	
Magnesium	0.0510	0.0482	15000	14580	ug/L	-3	10	
Manganese	1.8374	1.5022	150.0	140.8	ug/L	-6	10	
Molybdenum	0.4127	0.3937	150.0	146.9	ug/L	-2	10	
Nickel	0.4149	0.3045	150.0	145.8	ug/L	-3	10	
Potassium	0.4068	0.2967	15000	15260	ug/L	2	10	
Selenium	0.0287	0.0202	150.0	151.2	ug/L	1	10	
Silver	1.0912	1.0035	150.0	146.2	ug/L	-3	10	
Sodium	0.5550	0.4853	15000	14510	ug/L	-3	10	
Thallium	0.3301	0.3384	150.0	147.7	ug/L	-2	10	
Vanadium	1.2795	1.1779	150.0	143.7	ug/L	-4	10	
Zinc	0.5762	0.2275	150.0	144.4	ug/L	-4	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	898686	-9.06
Scandium	562292	474239	-15.66
Germanium	180440	147941	-18.01
Indium	1368410	1054434	-22.94
Bismuth	1333700	995910	-25.33

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449159 File : c2415159 Time : 25-MAR-2006 06:07
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3671	150.0	134.1	ug/L	-11	10	c- ***
Antimony	0.1269	0.0996	150.0	146.3	ug/L	-2	10	
Arsenic	0.2281	0.1981	150.0	149.0	ug/L	-1	10	
Barium	0.0496	0.0438	150.0	145.5	ug/L	-3	10	
Beryllium	0.0604	0.0577	150.0	147.1	ug/L	-2	10	
Cadmium	0.3334	0.2272	150.0	151.3	ug/L	1	10	
Calcium	0.0098	0.0086	15000	14640	ug/L	-2	10	
Chromium	1.4929	1.0198	150.0	142.4	ug/L	-5	10	
Cobalt	1.5284	1.3679	150.0	139.4	ug/L	-7	10	
Copper	0.5177	0.3644	150.0	142.5	ug/L	-5	10	
Iron	0.0399	0.0340	15000	14550	ug/L	-3	10	
Lead	0.4835	0.4497	150.0	142.9	ug/L	-5	10	
Magnesium	0.0510	0.0461	15000	13920	ug/L	-7	10	
Manganese	1.8374	1.5032	150.0	140.9	ug/L	-6	10	
Molybdenum	0.4127	0.4016	150.0	149.9	ug/L	0	10	
Nickel	0.4149	0.2968	150.0	142.1	ug/L	-5	10	
Potassium	0.4068	0.2839	15000	14600	ug/L	-3	10	
Selenium	0.0287	0.0204	150.0	152.9	ug/L	2	10	
Silver	1.0912	1.0218	150.0	148.9	ug/L	-1	10	
Sodium	0.5550	0.4623	15000	13820	ug/L	-8	10	
Thallium	0.3301	0.3353	150.0	146.3	ug/L	-2	10	
Vanadium	1.2795	1.1558	150.0	141.0	ug/L	-6	10	
Zinc	0.5762	0.2281	150.0	144.8	ug/L	-3	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	836473	-15.35
Scandium	562292	493671	-12.20
Germanium	180440	155900	-13.60
Indium	1368410	1140911	-16.63
Bismuth	1333700	1105121	-17.14

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449174 File : c2415174 Time : 25-MAR-2006 07:30
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3870	150.0	141.5	ug/L	-6	10	
Antimony	0.1269	0.0985	150.0	144.7	ug/L	-4	10	
Arsenic	0.2281	0.1978	150.0	148.8	ug/L	-1	10	
Barium	0.0496	0.0429	150.0	142.5	ug/L	-5	10	
Beryllium	0.0604	0.0570	150.0	145.5	ug/L	-3	10	
Cadmium	0.3334	0.2174	150.0	144.8	ug/L	-3	10	
Calcium	0.0098	0.0086	15000	14760	ug/L	-2	10	
Chromium	1.4929	1.0685	150.0	149.2	ug/L	-1	10	
Cobalt	1.5284	1.4105	150.0	143.7	ug/L	-4	10	
Copper	0.5177	0.3731	150.0	145.9	ug/L	-3	10	
Iron	0.0399	0.0347	15000	14830	ug/L	-1	10	
Lead	0.4835	0.4532	150.0	144.1	ug/L	-4	10	
Magnesium	0.0510	0.0478	15000	14460	ug/L	-4	10	
Manganese	1.8374	1.5356	150.0	143.9	ug/L	-4	10	
Molybdenum	0.4127	0.3941	150.0	147.1	ug/L	-2	10	
Nickel	0.4149	0.3076	150.0	147.3	ug/L	-2	10	
Potassium	0.4068	0.2871	15000	14760	ug/L	-2	10	
Selenium	0.0287	0.0200	150.0	149.5	ug/L	0	10	
Silver	1.0912	0.9902	150.0	144.3	ug/L	-4	10	
Sodium	0.5550	0.4764	15000	14240	ug/L	-5	10	
Thallium	0.3301	0.3207	150.0	140.0	ug/L	-7	10	
Vanadium	1.2795	1.2039	150.0	146.8	ug/L	-2	10	
Zinc	0.5762	0.2293	150.0	145.6	ug/L	-3	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	892339	-9.70
Scandium	562292	468084	-16.75
Germanium	180440	138839	-23.06
Indium	1368410	979740	-28.40
Bismuth	1333700	906100	-32.06

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449185 File : c2415185 Time : 25-MAR-2006 08:33
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3405	150.0	124.3	ug/L	**-17**	10	c- i+ ***
Antimony	0.1269	0.0964	150.0	141.6	ug/L	-6	10	
Arsenic	0.2281	0.1995	150.0	150.0	ug/L	0	10	
Barium	0.0496	0.0409	150.0	135.8	ug/L	-9	10	
Beryllium	0.0604	0.0601	150.0	153.4	ug/L	2	10	
Cadmium	0.3334	0.2280	150.0	151.9	ug/L	1	10	
Calcium	0.0098	0.0086	15000	14630	ug/L	-2	10	i+
Chromium	1.4929	1.1388	150.0	159.1	ug/L	6	10	
Cobalt	1.5284	1.4081	150.0	143.5	ug/L	-4	10	
Copper	0.5177	0.3658	150.0	143.1	ug/L	-5	10	
Iron	0.0399	0.0347	15000	14830	ug/L	-1	10	
Lead	0.4835	0.4466	150.0	141.9	ug/L	-5	10	
Magnesium	0.0510	0.0410	15000	12400	ug/L	**-17**	10	c- i+ ***
Manganese	1.8374	1.6208	150.0	151.9	ug/L	1	10	
Molybdenum	0.4127	0.4100	150.0	153.0	ug/L	2	10	
Nickel	0.4149	0.2971	150.0	142.2	ug/L	-5	10	
Potassium	0.4068	0.2821	15000	14510	ug/L	-3	10	i+
Selenium	0.0287	0.0207	150.0	154.7	ug/L	3	10	
Silver	1.0912	1.0584	150.0	154.2	ug/L	3	10	
Sodium	0.5550	0.3972	15000	11880	ug/L	**-21**	10	c- i+ ***
Thallium	0.3301	0.3256	150.0	142.1	ug/L	-5	10	
Vanadium	1.2795	1.3269	150.0	161.9	ug/L	8	10	
Zinc	0.5762	0.2281	150.0	144.8	ug/L	-3	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	1069484	8.23
Scandium	562292	756141	**34.47 ***
Germanium	180440	185899	3.03
Indium	1368410	1355459	-0.95
Bismuth	1333700	1186577	-11.03

+=high bias -=low bias c=CCV i=ISTD failure

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56120449012 File : c2415012 IDF : 1.0
Cal : 56120449001 Caldate: 24-MAR-2006 Time : 24-MAR-2006 16:30

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	0.2605	0.2500	0.03394	ug/L	ib ***
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	[0.04645]	0.2500	0.04566	ug/L	!ib
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.02192]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.07448]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	[0.2087]	1.000	0.09577	ug/L	!ib

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	969137	-1.93
Scandium	562292	523398	-6.92
Germanium	180440	172708	-4.29
Indium	1368410	1267032	-7.41
Bismuth	1333700	1243505	-6.76

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449041 File : c2415041 Time : 24-MAR-2006 19:11
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1722]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	[0.04493]	0.5000	0.04426	ug/L	!ib
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.08621]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	942974	-4.58
Scandium	562292	497013	-11.61
Germanium	180440	160729	-10.92
Indium	1368410	1193739	-12.76
Bismuth	1333700	1163252	-12.78

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449055 File : c2415055 Time : 24-MAR-2006 20:29
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1501]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.03973]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	948372	-4.03
Scandium	562292	501028	-10.90
Germanium	180440	161896	-10.28
Indium	1368410	1226800	-10.35
Bismuth	1333700	1216616	-8.78

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449071 File : c2415071 Time : 24-MAR-2006 21:57
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1124]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.2096]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2627]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1469]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	892991	-9.63
Scandium	562292	474552	-15.60
Germanium	180440	152380	-15.55
Indium	1368410	1132829	-17.22
Bismuth	1333700	1123713	-15.74

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449085 File : c2415085 Time : 24-MAR-2006 23:15
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.09912]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1488]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1119]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	872491	-11.71
Scandium	562292	466362	-17.06
Germanium	180440	149948	-16.90
Indium	1368410	1134348	-17.10
Bismuth	1333700	1121464	-15.91

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449099 File : c2415099 Time : 25-MAR-2006 00:34
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1144]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.05505]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	839745	-15.02
Scandium	562292	456637	-18.79
Germanium	180440	148479	-17.71
Indium	1368410	1142762	-16.49
Bismuth	1333700	1144155	-14.21

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56120449109 File : c2415109 IDF : 1.0
Cal : 56120449001 Caldate: 24-MAR-2006 Time : 25-MAR-2006 01:29

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1195]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1052]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.007220]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.01906]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2311]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	841646	-14.83
Scandium	562292	456716	-18.78
Germanium	180440	146645	-18.73
Indium	1368410	1137654	-16.86
Bismuth	1333700	1126462	-15.54

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449123 File : c2415123 Time : 25-MAR-2006 02:46
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1115]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.008805]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.03841]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1190]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	830886	-15.92
Scandium	562292	449947	-19.98
Germanium	180440	144623	-19.85
Indium	1368410	1113418	-18.63
Bismuth	1333700	1102799	-17.31

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449135 File : c2415135 Time : 25-MAR-2006 03:53
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1473]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1323]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01136]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.06042]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2067]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.07285]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	841360	-14.86
Scandium	562292	445097	-20.84
Germanium	180440	143634	-20.40
Indium	1368410	1086631	-20.59
Bismuth	1333700	1083950	-18.73

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449150 File : c2415150 Time : 25-MAR-2006 05:17
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.07915]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.007527]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.03594]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.01483]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.05427]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	928026	-6.09
Scandium	562292	470981	-16.24
Germanium	180440	147653	-18.17
Indium	1368410	1106829	-19.12
Bismuth	1333700	1054733	-20.92

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449161 File : c2415161 Time : 25-MAR-2006 06:18
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.08556]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.01170]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.009293]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.02352]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.04556]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	838678	-15.13
Scandium	562292	505026	-10.18
Germanium	180440	161662	-10.41
Indium	1368410	1282761	-6.26
Bismuth	1333700	1249274	-6.33

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449176 File : c2415176 Time : 25-MAR-2006 07:41
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.09663]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.2578]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.008511]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.1183]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.04145]	0.2500	0.03982	ug/L	!ib
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2884]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.04804]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	877911	-11.16
Scandium	562292	451821	-19.65
Germanium	180440	137616	-23.73
Indium	1368410	1006582	-26.44
Bismuth	1333700	945762	-29.09

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449187 File : c2415187 Time : 25-MAR-2006 08:44
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.07775]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.006321]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.02567]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.03935]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	867621	-12.20
Scandium	562292	468086	-16.75
Germanium	180440	141351	-21.66
Indium	1368410	1068398	-21.92
Bismuth	1333700	1040296	-22.00

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CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449013 File : c2415013 Time : 24-MAR-2006 16:36
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.628	0.2500	ug/L	
Arsenic	0.6180	0.5000	ug/L	
Barium	0.9755	0.2500	ug/L	
Beryllium	[0.02031]	0.2500	ug/L	
Cadmium	[0.2247]	0.2500	ug/L	
Chromium	1.583	0.5000	ug/L	
Cobalt	2.963	0.2500	ug/L	
Copper	1.898	0.5000	ug/L	
Lead	1.286	0.2500	ug/L	
Manganese	1.091	0.2500	ug/L	
Nickel	1.635	0.2500	ug/L	
Selenium	[0.3064]	0.5000	ug/L	
Silver	[0.1484]	0.2500	ug/L	
Thallium	[0.1047]	0.5000	ug/L	
Vanadium	[0.1847]	1.000	ug/L	
Zinc	2.174	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	85760	ug/L	86
Calcium	300000	291300	ug/L	97
Iron	250000	262300	ug/L	105
Magnesium	100000	90810	ug/L	91
Molybdenum	2000	2215	ug/L	111
Potassium	100000	91870	ug/L	92
Sodium	250000	229400	ug/L	92

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	779542	-21.11
Scandium	562292	491304	-12.62
Germanium	180440	146225	-18.96
Indium	1368410	1095335	-19.96
Bismuth	1333700	938748	-29.61

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449014 File : c2415014 Time : 24-MAR-2006 16:41
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	81420	ug/L	-19		
Arsenic	100.0	95.70	ug/L	-4	20	
Cadmium	100.0	91.22	ug/L	-9	20	
Calcium	300000	290600	ug/L	-3		
Chromium	200.0	217.6	ug/L	9	20	
Cobalt	200.0	209.5	ug/L	5	20	
Copper	200.0	181.4	ug/L	-9	20	
Iron	250000	263500	ug/L	5		
Magnesium	100000	86490	ug/L	-14		
Manganese	200.0	222.3	ug/L	11	20	
Molybdenum	2000	2189	ug/L	9		
Nickel	200.0	192.6	ug/L	-4	20	
Potassium	100000	89750	ug/L	-10		
Selenium	100.0	87.46	ug/L	-13	20	
Silver	50.00	47.12	ug/L	-6	20	
Sodium	250000	220400	ug/L	-12		
Vanadium	200.0	227.4	ug/L	14	20	
Zinc	100.0	90.57	ug/L	-9	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	491567	-12.58
Germanium	180440	144551	-19.89

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449056 File : c2415056 Time : 24-MAR-2006 20:34
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.333	0.2500	ug/L	
Arsenic	0.7648	0.5000	ug/L	
Barium	0.9834	0.2500	ug/L	
Beryllium	[0.01236]	0.2500	ug/L	
Cadmium	[0.1918]	0.2500	ug/L	
Chromium	1.467	0.5000	ug/L	
Cobalt	2.837	0.2500	ug/L	
Copper	1.800	0.5000	ug/L	
Lead	1.307	0.2500	ug/L	
Manganese	1.013	0.2500	ug/L	
Nickel	1.565	0.2500	ug/L	
Selenium	[0.1911]	0.5000	ug/L	
Silver	[0.1340]	0.2500	ug/L	
Thallium	[0.06724]	0.5000	ug/L	
Vanadium	[0.1649]	1.000	ug/L	
Zinc	2.011	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	85760	ug/L	86
Calcium	300000	284700	ug/L	95
Iron	250000	247600	ug/L	99
Magnesium	100000	90640	ug/L	91
Molybdenum	2000	2176	ug/L	109
Potassium	100000	92900	ug/L	93
Sodium	250000	226200	ug/L	90

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	754441	-23.65
Scandium	562292	444889	-20.88
Germanium	180440	133804	-25.85
Indium	1368410	996236	-27.20
Bismuth	1333700	855786	-35.83

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449057 File : c2415057 Time : 24-MAR-2006 20:40
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	81230	ug/L	-19		
Arsenic	100.0	91.39	ug/L	-9	20	
Cadmium	100.0	86.66	ug/L	-13	20	
Calcium	300000	279400	ug/L	-7		
Chromium	200.0	200.7	ug/L	0	20	
Cobalt	200.0	187.8	ug/L	-6	20	
Copper	200.0	171.1	ug/L	-14	20	
Iron	250000	244000	ug/L	-2		
Magnesium	100000	85230	ug/L	-15		
Manganese	200.0	206.9	ug/L	3	20	
Molybdenum	2000	2126	ug/L	6		
Nickel	200.0	181.6	ug/L	-9	20	
Potassium	100000	88390	ug/L	-12		
Selenium	100.0	85.02	ug/L	-15	20	
Silver	50.00	44.61	ug/L	-11	20	
Sodium	250000	216700	ug/L	-13		
Vanadium	200.0	201.6	ug/L	1	20	
Zinc	100.0	85.22	ug/L	-15	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	446714	-20.55
Germanium	180440	133306	-26.12

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449137 File : c2415137 Time : 25-MAR-2006 04:05
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.347	0.2500	ug/L	
Arsenic	[0.3882]	0.5000	ug/L	
Barium	1.062	0.2500	ug/L	
Beryllium	[0.01946]	0.2500	ug/L	
Cadmium	[0.08500]	0.2500	ug/L	
Chromium	1.613	0.5000	ug/L	
Cobalt	2.924	0.2500	ug/L	
Copper	1.893	0.5000	ug/L	
Lead	1.282	0.2500	ug/L	
Manganese	1.061	0.2500	ug/L	
Nickel	1.579	0.2500	ug/L	
Selenium	[0.2680]	0.5000	ug/L	
Silver	[0.1405]	0.2500	ug/L	
Thallium	[0.1109]	0.5000	ug/L	
Vanadium	[0.2904]	1.000	ug/L	
Zinc	2.062	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	84650	ug/L	85
Calcium	300000	290700	ug/L	97
Iron	250000	248700	ug/L	99
Magnesium	100000	89140	ug/L	89
Molybdenum	2000	2186	ug/L	109
Potassium	100000	93300	ug/L	93
Sodium	250000	223400	ug/L	89

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	674836	-31.71
Scandium	562292	406723	-27.67
Germanium	180440	121976	-32.40
Indium	1368410	887703	-35.13
Bismuth	1333700	772371	-42.09

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449138 File : c2415138 Time : 25-MAR-2006 04:10
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	83500	ug/L	-17		
Arsenic	100.0	93.87	ug/L	-6	20	
Cadmium	100.0	86.67	ug/L	-13	20	
Calcium	300000	289100	ug/L	-4		
Chromium	200.0	203.9	ug/L	2	20	
Cobalt	200.0	190.0	ug/L	-5	20	
Copper	200.0	174.2	ug/L	-13	20	
Iron	250000	246800	ug/L	-1		
Magnesium	100000	87450	ug/L	-13		
Manganese	200.0	203.0	ug/L	2	20	
Molybdenum	2000	2178	ug/L	9		
Nickel	200.0	183.6	ug/L	-8	20	
Potassium	100000	93050	ug/L	-7		
Selenium	100.0	87.45	ug/L	-13	20	
Silver	50.00	44.81	ug/L	-10	20	
Sodium	250000	221000	ug/L	-12		
Vanadium	200.0	205.7	ug/L	3	20	
Zinc	100.0	88.10	ug/L	-12	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	397591	-29.29
Germanium	180440	118801	-34.16

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449162 File : c2415162 Time : 25-MAR-2006 06:24
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.433	0.2500	ug/L	
Arsenic	[0.4828]	0.5000	ug/L	
Barium	1.070	0.2500	ug/L	
Beryllium	[0.005177]	0.2500	ug/L	
Cadmium	[0.1791]	0.2500	ug/L	
Chromium	1.576	0.5000	ug/L	
Cobalt	2.864	0.2500	ug/L	
Copper	1.852	0.5000	ug/L	
Lead	1.309	0.2500	ug/L	
Manganese	1.049	0.2500	ug/L	
Nickel	1.557	0.2500	ug/L	
Selenium	[0]	0.5000	ug/L	
Silver	[0.1414]	0.2500	ug/L	
Thallium	[0.07787]	0.5000	ug/L	
Vanadium	[0.2272]	1.000	ug/L	
Zinc	1.947	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	89740	ug/L	90
Calcium	300000	301200	ug/L	100
Iron	250000	249800	ug/L	100
Magnesium	100000	93590	ug/L	94
Molybdenum	2000	2269	ug/L	113
Potassium	100000	98320	ug/L	98
Sodium	250000	231700	ug/L	93

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	699133	-29.25
Scandium	562292	407378	-27.55
Germanium	180440	123996	-31.28
Indium	1368410	865103	-36.78
Bismuth	1333700	757128	-43.23

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449163 File : c2415163 Time : 25-MAR-2006 06:29
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	88210	ug/L	-12		
Arsenic	100.0	96.77	ug/L	-3	20	
Cadmium	100.0	87.72	ug/L	-12	20	
Calcium	300000	300000	ug/L	0		
Chromium	200.0	208.2	ug/L	4	20	
Cobalt	200.0	196.1	ug/L	-2	20	
Copper	200.0	178.7	ug/L	-11	20	
Iron	250000	252100	ug/L	1		
Magnesium	100000	92600	ug/L	-7		
Manganese	200.0	203.3	ug/L	2	20	
Molybdenum	2000	2250	ug/L	13		
Nickel	200.0	188.9	ug/L	-6	20	
Potassium	100000	97250	ug/L	-3		
Selenium	100.0	90.51	ug/L	-9	20	
Silver	50.00	45.85	ug/L	-8	20	
Sodium	250000	229300	ug/L	-8		
Vanadium	200.0	210.6	ug/L	5	20	
Zinc	100.0	89.56	ug/L	-10	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	392361	-30.22
Germanium	180440	117744	-34.75

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449188 File : c2415188 Time : 25-MAR-2006 08:49
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.452	0.2500	ug/L	
Arsenic	[0.4067]	0.5000	ug/L	
Barium	0.9738	0.2500	ug/L	
Beryllium	[0.01078]	0.2500	ug/L	
Cadmium	[0.09223]	0.2500	ug/L	
Chromium	6.008	0.5000	ug/L	
Cobalt	2.928	0.2500	ug/L	
Copper	1.744	0.5000	ug/L	
Lead	1.288	0.2500	ug/L	
Manganese	1.046	0.2500	ug/L	
Nickel	1.640	0.2500	ug/L	
Selenium	[0.3177]	0.5000	ug/L	
Silver	[0.1392]	0.2500	ug/L	
Thallium	[0.06780]	0.5000	ug/L	
Vanadium	1.467	1.000	ug/L	
Zinc	2.024	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	88210	ug/L	88
Calcium	300000	299100	ug/L	100
Iron	250000	253400	ug/L	101
Magnesium	100000	92340	ug/L	92
Molybdenum	2000	2198	ug/L	110
Potassium	100000	96490	ug/L	96
Sodium	250000	231900	ug/L	93

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	692065	-29.97
Scandium	562292	386620	-31.24
Germanium	180440	109304	-39.42
Indium	1368410	745623	-45.51
Bismuth	1333700	635742	-52.33

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449189 File : c2415189 Time : 25-MAR-2006 08:55
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	83800	ug/L	-16		
Arsenic	100.0	92.87	ug/L	-7	20	
Cadmium	100.0	83.91	ug/L	-16	20	
Calcium	300000	288700	ug/L	-4		
Chromium	200.0	199.4	ug/L	0	20	
Cobalt	200.0	185.5	ug/L	-7	20	
Copper	200.0	172.5	ug/L	-14	20	
Iron	250000	237100	ug/L	-5		
Magnesium	100000	88510	ug/L	-11		
Manganese	200.0	192.1	ug/L	-4	20	
Molybdenum	2000	2179	ug/L	9		
Nickel	200.0	181.3	ug/L	-9	20	
Potassium	100000	95070	ug/L	-5		
Selenium	100.0	86.14	ug/L	-14	20	
Silver	50.00	44.07	ug/L	-12	20	
Sodium	250000	218500	ug/L	-13		
Vanadium	200.0	201.1	ug/L	1	20	
Zinc	100.0	85.66	ug/L	-14	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	374467	-33.40
Germanium	180440	109542	-39.29

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	c2415001	TUN				24-MAR-2006 15:29	1.0	1.0				1	
003	c2415003	ICALBLK	std-blk			24-MAR-2006 15:41	1.0	1.0				2	
004	c2415004	ICAL	CS1			24-MAR-2006 15:46	1.0	1.0				3	
005	c2415005	ICAL	CS2			24-MAR-2006 15:52	1.0	1.0				4	
006	c2415006	ICAL	CS3			24-MAR-2006 15:57	1.0	1.0				5	
007	c2415007	ICAL	CS4			24-MAR-2006 16:03	1.0	1.0				6	
008	c2415008	ICAL	CS5			24-MAR-2006 16:09	1.0	1.0				7	
009	c2415009	ICAL	CS6			24-MAR-2006 16:14	1.0	1.0				8	
010	c2415010	ICV				24-MAR-2006 16:19	1.0	1.0			1	9	
012	c2415012	ICB				24-MAR-2006 16:30	1.0	1.0	1		1	2	
013	c2415013	ICSA				24-MAR-2006 16:36	1.0	1.0			1	10 2	7:CA=291300
014	c2415014	ICSAB				24-MAR-2006 16:41	1.0	1.0			1	11 2	11:CA=290600
017	c2415017	BLANK	QC332055	111436	Filtra	24-MAR-2006 16:58	1.0	1.0			1	2	
018	c2415018	BS	QC332056	111436	Filtra	24-MAR-2006 17:03	1.0	1.0			1	2	
019	c2415019	X	QC332057	111436	Filtra	24-MAR-2006 17:09	1.0	1.0			1	2	
020	c2415020	MSS	185457-016	111436	Filtra	24-MAR-2006 17:14	1.0	1.0	5		1	2	4:MG=237800
021	c2415021	SER	QC332060	111436	Filtra	24-MAR-2006 17:20	5.0	1.0		2	1	2	2:MG=49680.0
022	c2415022	MSS	185457-016	111436	Filtra	24-MAR-2006 17:26	20.0	1.0			1	2	
023	c2415023	SER	QC332060	111436	Filtra	24-MAR-2006 17:31	100.0	1.0		1	1	2	
024	c2415024	CCV				24-MAR-2006 17:37	1.0	1.0			1	12 2	
026	c2415026	CCB				24-MAR-2006 17:48	1.0	1.0			1	2	
027	c2415027	MSS	185457-016	111436	Filtra	24-MAR-2006 17:53	1.0	1.0	4		1	2	4:MG=242900
028	c2415028	MS	QC332058	111436	Filtra	24-MAR-2006 17:59	1.0	1.0	1		1	2	4:MG=244700
029	c2415029	MSD	QC332059	111436	Filtra	24-MAR-2006 18:04	1.0	1.0	1		1	2	4:MG=244400
030	c2415030	PDS	QC332061	111436	Filtra	24-MAR-2006 18:10	1.0	1.0			1	13 2	4:MG=254800
031	c2415031	MS	QC332058	111436	Filtra	24-MAR-2006 18:15	20.0	1.0	1	1	1	2	
032	c2415032	MSD	QC332059	111436	Filtra	24-MAR-2006 18:21	20.0	1.0		1	1	2	
033	c2415033	PDS	QC332061	111436	Filtra	24-MAR-2006 18:26	20.0	1.0		1	1	13 2	
035	c2415035	BSD	QC332057	111436	Filtra	24-MAR-2006 18:38	1.0	1.0			1	2	
036	c2415036	SAMPLE	185457-001	111436	Filtra	24-MAR-2006 18:43	1.0	1.0	4		1	2	3:NA=96550.0
037	c2415037	SAMPLE	185457-002	111436	Filtra	24-MAR-2006 18:49	1.0	1.0	2		1	2	2:NA=99150.0

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [signature] Date: 3/28/6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
039	c2415039	CCV				24-MAR-2006 19:00	1.0	1.0			1	12 2	
041	c2415041	CCB				24-MAR-2006 19:11	1.0	1.0			1	2	
042	c2415042	SAMPLE	185457-005	111436	Filtra	24-MAR-2006 19:16	1.0	1.0	3		1	2	3:MG=277200
043	c2415043	SAMPLE	185457-006	111436	Filtra	24-MAR-2006 19:22	1.0	1.0	5		1	2	5:MG=317500
044	c2415044	SAMPLE	185457-007	111436	Filtra	24-MAR-2006 19:27	1.0	1.0	2		1	2	2:MG=117600
045	c2415045	SAMPLE	185457-008	111436	Filtra	24-MAR-2006 19:33	1.0	1.0	2		1	2	2:MG=139900
046	c2415046	SAMPLE	185457-001	111436	Filtra	24-MAR-2006 19:39	20.0	1.0			1	2	
047	c2415047	SAMPLE	185457-002	111436	Filtra	24-MAR-2006 19:44	20.0	1.0			1	2	
048	c2415048	SAMPLE	185457-005	111436	Filtra	24-MAR-2006 19:50	20.0	1.0			1	2	
049	c2415049	SAMPLE	185457-006	111436	Filtra	24-MAR-2006 19:55	20.0	1.0			1	2	
050	c2415050	SAMPLE	185457-007	111436	Filtra	24-MAR-2006 20:01	20.0	1.0			1	2	
051	c2415051	SAMPLE	185457-008	111436	Filtra	24-MAR-2006 20:07	20.0	1.0			1	2	
053	c2415053	CCV				24-MAR-2006 20:18	1.0	1.0			1	12 2	
055	c2415055	CCB				24-MAR-2006 20:29	1.0	1.0			1	2	
056	c2415056	ICSA				24-MAR-2006 20:34	1.0	1.0			1	10 2	7:CA=284780
057	c2415057	ICSAB				24-MAR-2006 20:40	1.0	1.0			1	11 2	10:CA=279400
060	c2415060	BLANK	QC331831	111388	Filtra	24-MAR-2006 20:56	1.0	1.0			1	2	
061	c2415061	BS	QC331832	111388	Filtra	24-MAR-2006 21:02	1.0	1.0			1	2	
062	c2415062	BSD	QC331833	111388	Filtra	24-MAR-2006 21:07	1.0	1.0			1	2	
064	c2415064	MSS	185408-008	111388	Filtra	24-MAR-2006 21:18	1.0	1.0	1		1	2	1:NA=21510.0
065	c2415065	SER	QC331838	111388	Filtra	24-MAR-2006 21:24	5.0	1.0			1	2	
066	c2415066	MS	QC331836	111388	Filtra	24-MAR-2006 21:29	1.0	1.0	3		1	2	4:NA=32320.0
067	c2415067	MSD	QC331837	111388	Filtra	24-MAR-2006 21:35	1.0	1.0	2		1	2	3:NA=31390.0
069	c2415069	CCV				24-MAR-2006 21:46	1.0	1.0			1	12 2	
071	c2415071	CCB				24-MAR-2006 21:57	1.0	1.0			1	2	
072	c2415072	TUN				24-MAR-2006 22:03	1.0	1.0				1	
073	c2415073	PDS	QC331839	111388	Filtra	24-MAR-2006 22:09	1.0	1.0	2		1	13 2	3:NA=31210.0
074	c2415074	MSS	185408-010	111388	Filtra	24-MAR-2006 22:15	1.0	1.0	2		1	2	2:NA=42630.0
075	c2415075	MS	QC331834	111388	Filtra	24-MAR-2006 22:20	1.0	1.0	1		1	2	3:NA=53420.0
076	c2415076	MSD	QC331835	111388	Filtra	24-MAR-2006 22:26	1.0	1.0	1		1	2	3:NA=52930.0
077	c2415077	MSS	185408-008	111388	Filtra	24-MAR-2006 22:31	20.0	1.0			1	2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [signature] Date: 3/25/6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
078	c2415078	SER	QC331838	111388	Filtra	24-MAR-2006 22:37	100.0	1.0			1	2	
079	c2415079	MS	QC331836	111388	Filtra	24-MAR-2006 22:42	20.0	1.0			1	2	
080	c2415080	MSD	QC331837	111388	Filtra	24-MAR-2006 22:48	20.0	1.0			1	2	
081	c2415081	PDS	QC331839	111388	Filtra	24-MAR-2006 22:53	20.0	1.0		2	1	13 2	
083	c2415083	CCV				24-MAR-2006 23:04	1.0	1.0			1	12 2	
085	c2415085	CCB				24-MAR-2006 23:15	1.0	1.0			1	2	
086	c2415086	MSS	185408-010	111388	Filtra	24-MAR-2006 23:21	20.0	1.0			1	2	
087	c2415087	MS	QC331834	111388	Filtra	24-MAR-2006 23:27	20.0	1.0			1	2	
088	c2415088	MSD	QC331835	111388	Filtra	24-MAR-2006 23:32	20.0	1.0			1	2	
089	c2415089	SAMPLE	185408-006	111388	Filtra	24-MAR-2006 23:38	1.0	1.0	3		1	2	3:MG=56540.0
090	c2415090	SAMPLE	185408-007	111388	Filtra	24-MAR-2006 23:43	1.0	1.0	3		1	2	3:MG=54910.0
091	c2415091	SAMPLE	185408-009	111388	Filtra	24-MAR-2006 23:49	1.0	1.0	1		1	2	1:NA=20340.0
092	c2415092	SAMPLE	185408-011	111388	Filtra	24-MAR-2006 23:55	1.0	1.0	2		1	2	2:NA=41040.0
093	c2415093	SAMPLE	185408-006	111388	Filtra	25-MAR-2006 00:00	20.0	1.0			1	2	
094	c2415094	SAMPLE	185408-007	111388	Filtra	25-MAR-2006 00:06	20.0	1.0			1	2	
095	c2415095	SAMPLE	185408-009	111388	Filtra	25-MAR-2006 00:11	20.0	1.0			1	2	425
097	c2415097	CCV				25-MAR-2006 00:22	1.0	1.0			1	12 2	
099	c2415099	CCB				25-MAR-2006 00:34	1.0	1.0			1	2	
100	c2415100	SAMPLE	185408-011	111388	Filtra	25-MAR-2006 00:39	20.0	1.0			1	2	
101	c2415101	SAMPLE	185463-001	111388	Filtra	25-MAR-2006 00:45	1.0	1.0			1	2	
102	c2415102	SAMPLE	185463-001	111388	Filtra	25-MAR-2006 00:50	20.0	1.0			1	2	
104	c2415104	BLANK	QC331981	111421	Filtra	25-MAR-2006 01:01	1.0	1.0			1	2	
105	c2415105	BS	QC331982	111421	Filtra	25-MAR-2006 01:07	1.0	1.0			1	2	
106	c2415106	BSD	QC331983	111421	Filtra	25-MAR-2006 01:12	1.0	1.0			1	2	
107	c2415107	CCV				25-MAR-2006 01:18	1.0	1.0			1	12 2	
109	c2415109	CCB				25-MAR-2006 01:29	1.0	1.0			1	2	
110	c2415110	MSS	185408-002	111421	Filtra	25-MAR-2006 01:34	1.0	1.0	4		1	2	4:NA=113600
111	c2415111	SER	QC331986	111421	Filtra	25-MAR-2006 01:40	5.0	1.0			1	2	1:NA=22340.0
112	c2415112	MS	QC331984	111421	Filtra	25-MAR-2006 01:45	1.0	1.0			1	2	4:NA=119300
113	c2415113	MSD	QC331985	111421	Filtra	25-MAR-2006 01:51	1.0	1.0			1	2	4:NA=119300
114	c2415114	PDS	QC331987	111421	Filtra	25-MAR-2006 01:56	1.0	1.0			1	13 2	4:NA=116900

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: Melin Date: 3/28/6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
115	c2415115	MSS	185408-002	111421	Filtra	25-MAR-2006 02:02	20.0	1.0			1	2	
116	c2415116	SER	QC331986	111421	Filtra	25-MAR-2006 02:07	100.0	1.0			1	2	
117	c2415117	MS	QC331984	111421	Filtra	25-MAR-2006 02:13	20.0	1.0		1	1	2	
118	c2415118	MSD	QC331985	111421	Filtra	25-MAR-2006 02:19	20.0	1.0		1	1	2	
119	c2415119	PDS	QC331987	111421	Filtra	25-MAR-2006 02:24	20.0	1.0		3	1	13 2	
121	c2415121	CCV				25-MAR-2006 02:35	1.0	1.0			1	12 2	
123	c2415123	CCB				25-MAR-2006 02:46	1.0	1.0			1	2	
124	c2415124	SAMPLE	185408-001	111421	Filtra	25-MAR-2006 02:52	1.0	1.0	4		1	2	4:NA=84720.0
125	c2415125	SAMPLE	185408-003	111421	Filtra	25-MAR-2006 02:57	1.0	1.0	4		1	2	4:NA=86130.0
126	c2415126	SAMPLE	185408-004	111421	Filtra	25-MAR-2006 03:03	1.0	1.0	5		1	2	5:CA=57740.0
127	c2415127	SAMPLE	185408-005	111421	Filtra	25-MAR-2006 03:08	1.0	1.0	5		1	2	5:CA=64560.0
128	c2415128	SAMPLE	185408-001	111421	Filtra	25-MAR-2006 03:14	20.0	1.0			1	2	
129	c2415129	SAMPLE	185408-003	111421	Filtra	25-MAR-2006 03:19	20.0	1.0			1	2	
130	c2415130	SAMPLE	185408-004	111421	Filtra	25-MAR-2006 03:25	20.0	1.0			1	2	
131	c2415131	SAMPLE	185408-005	111421	Filtra	25-MAR-2006 03:30	20.0	1.0			1	2	
133	c2415133	CCV				25-MAR-2006 03:42	1.0	1.0			1	12 2	
135	c2415135	CCB				25-MAR-2006 03:53	1.0	1.0			1	2	
136	c2415136	TUN				25-MAR-2006 03:59	1.0	1.0				1	
137	c2415137	ICSA				25-MAR-2006 04:05	1.0	1.0			1	10 2	7:CA=290700
138	c2415138	ICSAB				25-MAR-2006 04:10	1.0	1.0			1	11 2	10:CA=289100
140	c2415140	SAMPLE	185511-001	111388	Filtra	25-MAR-2006 04:21	1.0	1.0	3		1	2	3:NA=53820.0
141	c2415141	SAMPLE	185511-002	111388	Filtra	25-MAR-2006 04:27	1.0	1.0	3		1	2	3:NA=53130.0
142	c2415142	SAMPLE	185511-009	111388	Filtra	25-MAR-2006 04:32	1.0	1.0	2		1	2	2:NA=191500
143	c2415143	SAMPLE	185511-010	111388	Filtra	25-MAR-2006 04:38	1.0	1.0	4		1	2	4:NA=68870.0
144	c2415144	SAMPLE	185511-011	111388	Filtra	25-MAR-2006 04:43	1.0	1.0	3		1	2	3:MG=40470.0
145	c2415145	SAMPLE	185511-012	111388	Filtra	25-MAR-2006 04:49	1.0	1.0			1	2	
146	c2415146	SAMPLE	185511-013	111388	Filtra	25-MAR-2006 04:55	1.0	1.0			1	2	
148	c2415148	CCV				25-MAR-2006 05:06	1.0	1.0			1	12 2	
150	c2415150	CCB				25-MAR-2006 05:17	1.0	1.0			1	2	
151	c2415151	SAMPLE	185511-001	111388	Filtra	25-MAR-2006 05:22	20.0	1.0	1		1	2	
152	c2415152	SAMPLE	185511-002	111388	Filtra	25-MAR-2006 05:28	20.0	1.0	1		1	2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: MOW Date: 3/25/6

426

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
153	c2415153	SAMPLE	185511-009	111388	Filtra	25-MAR-2006 05:34	20.0	1.0	1		1	2	
154	c2415154	SAMPLE	185511-010	111388	Filtra	25-MAR-2006 05:39	20.0	1.0	1		1	2	
155	c2415155	SAMPLE	185511-011	111388	Filtra	25-MAR-2006 05:45	20.0	1.0	1		1	2	
156	c2415156	SAMPLE	185511-012	111388	Filtra	25-MAR-2006 05:50	20.0	1.0	1		1	2	
157	c2415157	SAMPLE	185511-013	111388	Filtra	25-MAR-2006 05:56	20.0	1.0	1		1	2	
159	c2415159	CCV				25-MAR-2006 06:07	1.0	1.0	1		1	12 2	
161	c2415161	CCB				25-MAR-2006 06:18	1.0	1.0			1	2	
162	c2415162	ICSA				25-MAR-2006 06:24	1.0	1.0			1	10 2	7:CA=301200
163	c2415163	ICSAB				25-MAR-2006 06:29	1.0	1.0			1	11 2	10:CA=300000
165	c2415165	SAMPLE	185586-001	111436	Filtra	25-MAR-2006 06:40	1.0	1.0	5		1	2	4:CA=167100
166	c2415166	SAMPLE	185586-002	111436	Filtra	25-MAR-2006 06:46	1.0	1.0	5		1	2	4:CA=124300
167	c2415167	SAMPLE	185586-003	111436	Filtra	25-MAR-2006 06:51	1.0	1.0	5		1	2	4:CA=124000
168	c2415168	SAMPLE	185586-018	111436	Filtra	25-MAR-2006 06:57	1.0	1.0	4		1	2	3:NA=93550.0
169	c2415169	SAMPLE	185586-019	111436	Filtra	25-MAR-2006 07:02	1.0	1.0	6		1	2	5:NA=56300.0
170	c2415170	SAMPLE	185586-020	111436	Filtra	25-MAR-2006 07:08	1.0	1.0	6		1	2	5:NA=137100
171	c2415171	SAMPLE	185586-021	111436	Filtra	25-MAR-2006 07:13	1.0	1.0	5		1	2	4:CA=52610.0
172	c2415172	SAMPLE	185586-022	111436	Filtra	25-MAR-2006 07:19	1.0	1.0	4		1	2	3:NA=51830.0
174	c2415174	CCV				25-MAR-2006 07:30	1.0	1.0			1	12 2	
176	c2415176	CCB				25-MAR-2006 07:41	1.0	1.0			1	2	
177	c2415177	SAMPLE	185586-023	111436	Filtra	25-MAR-2006 07:47	1.0	1.0	3		1	2	
178	c2415178	SAMPLE	185586-024	111436	Filtra	25-MAR-2006 07:52	1.0	1.0	4		1	2	3:MG=54800.0
179	c2415179	SAMPLE	185586-025	111436	Filtra	25-MAR-2006 07:58	1.0	1.0	3		1	2	2:MG=45530.0
180	c2415180	SAMPLE	185586-026	111436	Filtra	25-MAR-2006 08:03	1.0	1.0	4		1	2	3:NA=53600.0
181	c2415181	SAMPLE	185586-001	111436	Filtra	25-MAR-2006 08:09	20.0	1.0	3		1	2	
182	c2415182	SAMPLE	185586-002	111436	Filtra	25-MAR-2006 08:14	20.0	1.0	3		1	2	
183	c2415183	SAMPLE	185586-003	111436	Filtra	25-MAR-2006 08:20	20.0	1.0	3		1	2	
184	c2415184	SAMPLE	185586-018	111436	Filtra	25-MAR-2006 08:26	20.0	1.0	3		1	2	
185	c2415185	CCV				25-MAR-2006 08:33	1.0	1.0	3		1	12 2	
187	c2415187	CCB				25-MAR-2006 08:44	1.0	1.0			1	2	
188	c2415188	ICSA				25-MAR-2006 08:49	1.0	1.0			1	10 2	7:CA=299100
189	c2415189	ICSAB				25-MAR-2006 08:55	1.0	1.0			1	11 2	8:CA=288700

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [signature] Date: 3/25/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56121987001
Units : ug/L

Date : 25-MAR-2006 17:19
X Axis : R

Reviewer: ---
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	c2517004	56121987004	CS1	25-MAR-2006 17:25	S2889
L2	c2517005	56121987005	CS2	25-MAR-2006 17:30	S2890
L3	c2517006	56121987006	CS3	25-MAR-2006 17:36	S2891
L4	c2517007	56121987007	CS4	25-MAR-2006 17:41	S2892
L5	c2517008	56121987008	CS5	25-MAR-2006 17:47	S2886
L6	c2517009	56121987009	CS6	25-MAR-2006 17:52	S2887

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		3.8865	2.2755	0.8329	0.5892	0.6257	BLNK	-2.5547	1.64155		1.6420	0.999	0.995	
Antimony	0.3111	0.2133	0.1597	0.1458	0.1200	0.1280	BLNK	-0.3477	7.92772		0.1796	0.999	0.995	
Arsenic		0.3796	0.3716	0.3019	0.2691	0.2905	BLNK	-0.1052	3.49583		0.3225	0.999	0.995	
Barium	0.0722	0.0741	0.0666	0.0634	0.0564	0.0625	BLNK	-0.0454	16.3101		0.0659	0.998	0.995	
Beryllium	0.1193	0.1317	0.1183	0.1219	0.1088	0.1089	BLNK	-0.0045	9.18386		0.1182	1.000	0.995	
Cadmium	0.5799	0.4497	0.3247	0.2983	0.2486	0.2603	BLNK	-0.2588	3.88162		0.3603	0.999	0.995	
Calcium		0.0154	0.0141	0.0129	0.0117	0.0121	BLNK	-12.179	83.1722		0.0133	1.000	0.995	
Chromium		4.2655	3.0491	1.9910	1.6448	1.7620	BLNK	-0.7036	0.57752		2.5425	0.999	0.995	428
Cobalt	2.4705	2.5058	2.2921	2.3558	2.0523	2.2700	BLNK	-0.0146	0.44913		2.3244	0.998	0.995	
Copper		0.7464	0.6667	0.6338	0.5520	0.5929	BLNK	-0.0263	1.71032		0.6383	0.999	0.995	
Iron		0.0734	0.0620	0.0537	0.0482	0.0516	BLNK	-19.277	19.6651		0.0578	0.999	0.995	
Lead	0.7838	0.7299	0.7070	0.7232	0.6896	0.7232	BLNK	-0.0238	1.39586		0.7261	0.999	0.995	
Magnesium		0.0782	0.0772	0.0836	0.0665	0.0711	BLNK	-0.5698	14.2428		0.0753	0.999	0.995	
Manganese	3.0605	2.8158	2.5579	2.4827	2.1607	2.3733	BLNK	-0.0612	0.42914		2.5751	0.998	0.995	
Molybdenum		0.5824	0.5732	0.5592	0.4945	0.5451	BLNK	-0.0288	1.86942		0.5509	0.998	0.995	
Nickel	0.5807	0.5646	0.5137	0.5185	0.4589	0.4851	BLNK	-0.0165	2.08384		0.5202	0.999	0.995	
Potassium		0.9946	0.7661	0.5358	0.4274	0.4628	BLNK	-44.643	2.19945		0.6373	0.998	0.995	
Selenium		0.0518	0.0464	0.0326	0.0267	0.0284	BLNK	-0.5200	35.7819		0.0372	0.999	0.995	
Silver	2.5306	1.9677	1.6335	1.4759	1.2480	1.3270	BLNK	-0.2245	0.76353		1.6971	0.999	0.995	
Sodium		0.7945	0.8185	0.7730	0.6431	0.6809	BLNK	-4.4942	1.48507		0.7420	0.999	0.995	
Thallium		0.5553	0.5036	0.5121	0.4682	0.5401	BLNK	-0.0413	1.90278		0.5159	0.995	0.995	
Vanadium		2.9471	2.5681	2.1851	1.9336	2.1341	BLNK	-0.2789	0.47833		2.3536	0.998	0.995	
Zinc		0.6271	0.4579	0.3789	0.3051	0.3166	BLNK	-0.2892	3.18628		0.4171	1.000	0.995	

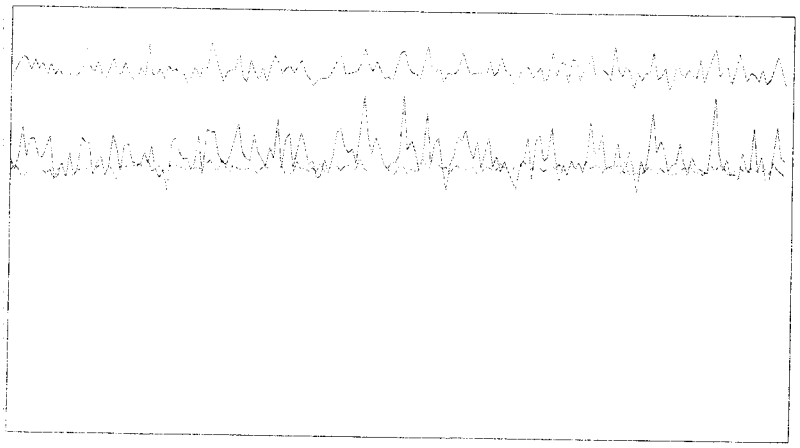
BLNK=Y=aX+[blank]

Instrument amount = a0 + response * a1 + response^2 * a2

56121987001

Tune Report

Tune File : ATUNE.U



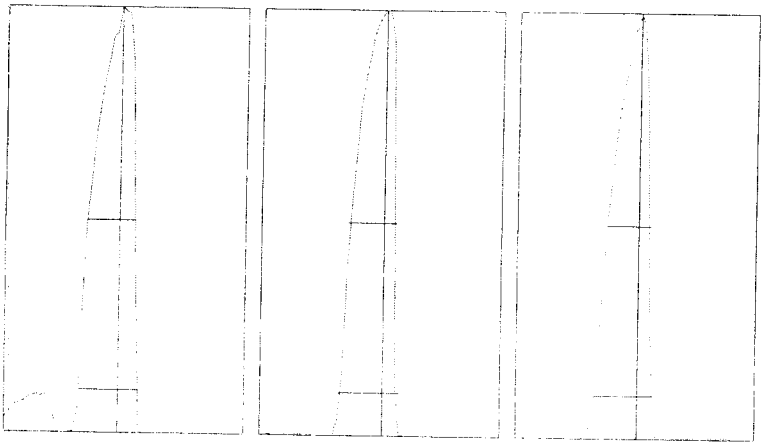
m/z:	7	89	205
Range:	20,000	20,000	20,000
Count:	13,182	16,724	12,462
Mean:	13236.3	17241.4	12604.8
RSD%:	6.19	2.56	1.80
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.46%
Doubly Charged:	70/140	0.97%

Background:

m/z:	7	89	205
Cps:	2.0	1.7	2.0



m/z:	7	89	205
Height:	13,341	17,359	13,199
Axis:	6.95	89.05	205.05
W-50%:	0.60	0.60	0.55
W-10%:	0.7500	0.7500	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1210 W	Extract 1:	-156.2 V	AMU Gain:	129
RF Matching:	1.62 V	Extract 2:	-96 V	AMU Offset:	127
Smpl Depth:	7 mm	Einzel 1,3:	-66 V	Axis Gain:	0.9998
Torch-H:	0 mm	Einzel 2:	16 V	Axis Offset:	-0.07
Torch-V:	0.4 mm	Omega Bias:	-33 V	QP Bias:	1.5 V
Carrier Gas:	1.14 L/min	Omega (+):	1 V		
Makeup Gas:	0 L/min	Omega (-):	-6.7 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	7.1 V	Discriminator:	8.7 mV
PeriPump1:	0.1 rps	Plate Bias:	-12.5 V	Analog HV:	1760 V
PeriPump2:	--- rps			Pulse HV:	1200 V
S/C Temp:	2 degC				

Generated : Mar 25, 2006 09:11:17
Printed : Mar 25, 2006 09:11:23

P/A Factor Tuning Report

Acquired:Mar 25 2006 09:32 am

Mass[amu]	Element	P/A Factor
6	Li	0.068303
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.090756
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.095697
45	Sc	Sensitivity too low
51	V	0.094817
52	Cr	0.096140
53	Cr	Sensitivity too low
54	Fe	0.102546
55	Mn	0.098579
57	Fe	0.101471
59	Co	0.101468
60	Ni	Sensitivity too low
63	Cu	Sensitivity too low
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.101158
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.106210
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	0.107844
118	(In)	0.110861
121	Sb	Sensitivity too low
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.111186
166	Er	Sensitivity too low

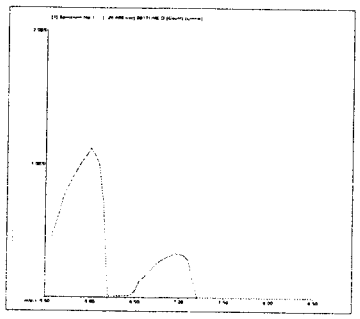
```
205        Tl     0.115486
206      (Pb)  Sensitivity too low
207      (Pb)  Sensitivity too low
208        Pb     0.114518
209        Bi     0.114511

===Detector Parameters===
  Discriminator: 8.7 mV
      Analog HV: 1760 V
       Pulse HV: 1200 V
```

6020 QC Tune Report

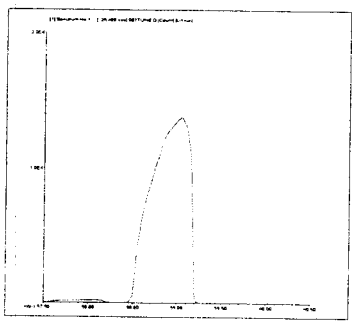
Data File: C:\ICPCHEM\1\DATA\06C2517a.B\001TUNE.D
Date Acquired: Mar 25 2006 05:07 pm
Acq. Method: TN6020.M
Operator:
Sample Name: TUN,S2898
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

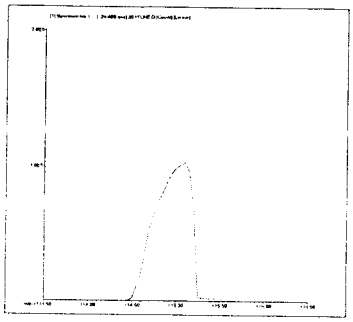
Element	Actual	Required	Flag
7 Li	0.85	5.00	
59 Co	1.27	5.00	
115 In	1.17	5.00	
205 Tl	0.71	5.00	



7 Li
Mass Calib.
Actual: 6.95
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



115 In

Mass Calib.

Actual: 115.10

Required: 114.90 - 115.10

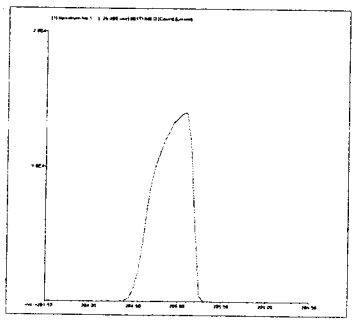
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



205 Tl

Mass Calib.

Actual: 205.10

Required: 204.90 - 205.10

Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2517a.B\002BLNK.D\002BLNK.D#
Date Acquired:	Mar 25 2006 05:13 pm
Acq. Method:	60200111.M
Operator:	
Sample Name:	RINSE
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update:	Mar 25 2006 04:49 pm
Sample Type:	6-Blank
Dilution Factor:	1.00

QC Elements

Element	Corr. Conc.	RSD(%)	Raw Conc.	High Limit	Flag
9 Be	-0.008454 ppb	36.78	-0.008454	1.00	
23 Na	-0.797 ppb	59.91	-0.797	1.00	
26 Mg	-0.3247 ppb	78.50	-0.3247	1.00	
27 Al	-1.315 ppb	4.83	-1.315	1.00	
39 K	0.7718 ppb	756.15	0.7718	1.00	
44 Ca	-0.3111 ppb	175.83	-0.3111	1.00	
51 V	-0.03952 ppb	371.46	-0.03952	1.00	
52 Cr	-0.06869 ppb	43.06	-0.06869	1.00	
55 Mn	-0.0154 ppb	49.05	-0.0154	1.00	
57 Fe	-2.061 ppb	86.95	-2.061	1.00	
59 Co	0.005511 ppb	120.87	0.005511	1.00	
60 Ni	-0.008204 ppb	101.06	-0.008204	1.00	
65 Cu	0.004633 ppb	338.23	0.004633	1.00	
66 Zn	0.07853 ppb	89.39	0.07853	1.00	
75 As	0.2477 ppb	57.17	0.2477	1.00	
82 Se	0.5152 ppb	11.79	0.5152	1.00	
95 Mo	0.003936 ppb	271.09	0.003936	1.00	
109 Ag	0.4199 ppb	3.52	0.4199	1.00	
111 Cd	-0.02732 ppb	256.52	-0.02732	1.00	
121 Sb	0.2282 ppb	2.66	0.2282	1.00	
137 Ba	-0.01357 ppb	161.83	-0.01357	1.00	
205 Tl	0.1591 ppb	20.46	0.1591	1.00	
208 Pb	0.001769 ppb	184.57	0.001769	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1075951.00	1.80	---	#VALUE!	80 - 120	
45 Sc	597797.44	1.45	---	#VALUE!	80 - 120	
72 Ge	131139.78	0.91	---	#VALUE!	80 - 120	
115 In	781566.19	2.93	---	#VALUE!	80 - 120	
209 Bi	614094.38	0.45	---	#VALUE!	80 - 120	

ISTD Ref File : ---

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Pass
ISTD: Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2517a.B\003CAL
Date Acquired:	Mar 25 2006 05:19 pm
Operator:	
Sample Name:	std-blk
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 25 2006 04:49 pm
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean	SD	RSD(%)
6	Li	1139817.00 A	31180.00	2.74
9	Be	11.11 P	1.93	17.33
23	Na	38380.00 P	339.80	0.89
26	Mg	506.67 P	57.83	11.41
27	Al	19736.67 P	241.80	1.23
39	K	257405.50 P	1989.00	0.77
44	Ca	1856.11 P	105.70	5.69
45	Sc	634190.31 A	11000.00	1.73
51	V	1553.97 P	261.60	16.83
52	Cr	3250.00 P	28.87	0.89
55	Mn	380.00 P	38.44	10.12
57	Fe	2615.56 P	113.50	4.34
59	Co	86.67 P	8.82	10.18
60	Ni	21.11 P	3.85	18.23
65	Cu	41.11 P	8.39	20.41
66	Zn	242.22 P	38.63	15.95
72	Ge	133388.70 P	1331.00	1.00
75	As	80.74 P	98.00	121.37
82	Se	38.89 P	22.32	57.39
95	Mo	41.11 P	5.09	12.39
109	Ag	784.44 P	22.69	2.89
111	Cd	178.02 P	22.38	12.57
115	In	777896.88 P	8143.00	1.05
121	Sb	682.22 P	28.74	4.21
137	Ba	43.33 P	3.33	7.69
205	Tl	278.89 P	13.47	4.83
208	Pb	218.89 P	41.41	18.92
209	Bi	641813.31 P	2797.00	0.44

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2517a.B\004CALI.D\004CALI.D#
Date Acquired:	Mar 25 2006 05:25 pm
Operator:	
Sample Name:	CS1,S2889
Misc Info:	
Vial Number:	1102
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 25 2006 05:21 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	1099508.00	A	30380.00	2.76
9	Be	655.56	P	80.02	12.21
23	Na	251408.91	P	4948.00	1.97
26	Mg	23628.89	P	415.90	1.76
27	Al	21293.33	P	380.00	1.78
39	K	400821.09	P	3438.00	0.86
44	Ca	5553.38	P	117.30	2.11
45	Sc	602823.63	A	5549.00	0.92
51	V	2445.76	P	345.00	14.11
52	Cr	4493.33	P	40.00	0.89
55	Mn	2008.89	P	67.36	3.35
57	Fe	6175.56	P	279.70	4.53
59	Co	1622.22	P	103.00	6.35
60	Ni	381.11	P	26.94	7.07
65	Cu	509.90	P	40.41	7.93
66	Zn	526.55	P	26.03	4.94
72	Ge	131303.59	P	973.30	0.74
75	As	279.14	P	93.98	33.67
82	Se	50.67	P	8.08	15.95
95	Mo	365.56	P	48.57	13.29
109	Ag	1661.11	P	67.52	4.06
111	Cd	380.62	P	18.69	4.91
115	In	760712.38	P	9593.00	1.26
121	Sb	1183.33	P	20.28	1.71
137	Ba	274.44	P	43.50	15.85
205	Tl	1855.56	P	45.01	2.43
208	Pb	2436.67	P	68.88	2.83
209	Bi	621853.31	P	3542.00	0.57

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6	Li	1099507.50	2.76	1139817.40	96.5	80 -	120	

45	Sc	602823.63	0.92	634190.31	95.1	80 -	120
72	Ge	131303.55	0.74	133388.67	98.4	80 -	120
115	In	760712.38	1.26	777896.94	97.8	80 -	120
209	Bi	621853.31	0.57	641813.31	96.9	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2517a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2517a.B\005CALI.D\005CALI.D#
Date Acquired:	Mar 25 2006 05:30 pm
Operator:	
Sample Name:	CS2,S2890
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 25 2006 05:26 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	1064395.00	A	8797.00	0.83
9	Be	1402.22	P	70.26	5.01
23	Na	474683.31	P	9577.00	2.02
26	Mg	46724.44	P	318.70	0.68
27	Al	23218.89	P	410.80	1.77
39	K	594147.13	A	13050.00	2.20
44	Ca	9220.93	P	280.40	3.04
45	Sc	597475.31	A	13750.00	2.30
51	V	3811.36	P	209.40	5.49
52	Cr	5515.56	P	186.50	3.38
55	Mn	3641.11	P	69.39	1.91
57	Fe	9497.78	P	337.80	3.56
59	Co	3241.11	P	306.70	9.46
60	Ni	730.00	P	5.77	0.79
65	Cu	965.36	P	68.50	7.10
66	Zn	810.88	P	19.53	2.41
72	Ge	129310.40	P	603.00	0.47
75	As	490.41	P	246.90	50.35
82	Se	66.89	P	24.31	36.34
95	Mo	753.33	P	58.59	7.78
109	Ag	2544.44	P	50.15	1.97
111	Cd	581.58	P	17.06	2.93
115	In	745057.00	P	4798.00	0.64
121	Sb	1588.89	P	10.72	0.67
137	Ba	552.22	P	18.36	3.32
205	Tl	3380.00	P	117.00	3.46
208	Pb	4442.22	P	6.94	0.16
209	Bi	608651.13	P	6382.00	1.05

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1064395.10	0.83	1139817.40	93.4	80 - 120	

45	Sc	597475.31	2.30	634190.31	94.2	80 -	120
72	Ge	129310.45	0.47	133388.67	96.9	80 -	120
115	In	745057.00	0.64	777896.94	95.8	80 -	120
209	Bi	608651.06	1.05	641813.31	94.8	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2517a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**

ISTD: **Pass**

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2517a.B\006CALI.D\006CALI.D#
Date Acquired:	Mar 25 2006 05:36 pm
Operator:	
Sample Name:	CS3,S2891
Misc Info:	
Vial Number:	1104
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 25 2006 05:32 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	1124950.00	A	25820.00	2.30
9	Be	2661.11	P	32.03	1.20
23	Na	978242.38	A	12700.00	1.30
26	Mg	92360.00	P	2222.00	2.41
27	Al	27183.33	P	611.70	2.25
39	K	915507.38	A	7826.00	0.85
44	Ca	16901.34	P	253.40	1.50
45	Sc	598528.69	M	30780.00	5.14
51	V	6844.10	P	520.80	7.61
52	Cr	8131.11	P	186.10	2.29
55	Mn	6821.11	P	173.30	2.54
57	Fe	16544.44	P	147.30	0.89
59	Co	6112.22	P	192.90	3.16
60	Ni	1370.00	P	71.72	5.24
65	Cu	1777.38	P	50.59	2.85
66	Zn	1220.65	P	70.25	5.76
72	Ge	133324.20	P	1289.00	0.97
75	As	990.11	P	99.73	10.07
82	Se	123.56	P	12.48	10.10
95	Mo	1527.78	P	83.42	5.46
109	Ag	4354.44	P	185.50	4.26
111	Cd	865.79	P	6.70	0.77
115	In	797669.69	M	23000.00	2.88
121	Sb	2546.67	P	68.07	2.67
137	Ba	1061.11	P	27.76	2.62
205	Tl	6396.67	P	58.59	0.92
208	Pb	8982.22	P	249.50	2.78
209	Bi	635207.69	P	7627.00	1.20

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1124949.60	2.30	1139817.40	98.7	80 - 120	

45	Sc	598528.69	5.14	634190.31	94.4	80 -	120
72	Ge	133324.22	0.97	133388.67	100.0	80 -	120
115	In	797669.63	2.88	777896.94	102.5	80 -	120
209	Bi	635207.75	1.20	641813.31	99.0	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2517a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2517a.B\007CALI.D\007CALI.D#
Date Acquired: Mar 25 2006 05:41 pm
Operator:
Sample Name: CS4,S2892
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 25 2006 05:37 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	1091618.00	A	21070.00	1.93
9	Be	26608.89	P	602.90	2.27
23	Na	9201740.00	A	261000.00	2.84
26	Mg	994511.81	A	17490.00	1.76
27	Al	99187.78	P	1206.00	1.22
39	K	6376032.00	A	98690.00	1.55
44	Ca	154109.80	P	2000.00	1.30
45	Sc	596088.69	M	26340.00	4.42
51	V	56995.39	P	885.00	1.55
52	Cr	51932.22	P	880.10	1.69
55	Mn	64757.78	P	763.50	1.18
57	Fe	139950.00	P	1666.00	1.19
59	Co	61448.88	P	467.50	0.76
60	Ni	13525.56	P	333.50	2.47
65	Cu	16531.34	P	151.80	0.92
66	Zn	9883.92	P	325.80	3.30
72	Ge	130416.90	P	352.50	0.27
75	As	7873.84	P	208.10	2.64
82	Se	850.89	P	44.07	5.18
95	Mo	14586.67	P	147.50	1.01
109	Ag	38495.56	P	271.30	0.70
111	Cd	7780.49	P	145.50	1.87
115	In	745649.88	P	5725.00	0.77
121	Sb	21748.89	P	113.70	0.52
137	Ba	9454.44	P	190.60	2.02
205	Tl	62686.66	P	119.30	0.19
208	Pb	88518.88	P	519.40	0.59
209	Bi	612013.31	P	3487.00	0.57

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1091618.50	1.93	1139817.40	95.8	80 - 120	

45	Sc	596088.75	4.42	634190.31	94.0	80 -	120
72	Ge	130416.88	0.27	133388.67	97.8	80 -	120
115	In	745649.94	0.77	777896.94	95.9	80 -	120
209	Bi	612013.31	0.57	641813.31	95.4	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2517a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2517a.B\008CALI.D\008CALI.D#
Date Acquired: Mar 25 2006 05:47 pm
Operator:
Sample Name: CS5,S2886
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 25 2006 05:43 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	1094026.00	A	22650.00	2.07
9	Be	238072.20	P	4871.00	2.05
23	Na	80284400.00	A	760800.00	0.95
26	Mg	8301087.00	A	31090.00	0.37
27	Al	735633.13	A	19110.00	2.60
39	K	53363280.00	A	1401000.00	2.63
44	Ca	1461622.00	A	28710.00	1.96
45	Sc	624198.00	A	5580.00	0.89
51	V	508151.19	P	11540.00	2.27
52	Cr	432270.00	P	14560.00	3.37
55	Mn	567762.19	P	11550.00	2.03
57	Fe	1266612.00	A	8146.00	0.64
59	Co	539214.38	P	4200.00	0.78
60	Ni	120586.70	P	2078.00	1.72
65	Cu	145052.20	P	3512.00	2.42
66	Zn	80171.82	P	1222.00	1.52
72	Ge	131387.59	P	1918.00	1.46
75	As	70707.96	P	762.70	1.08
82	Se	7010.67	P	65.55	0.94
95	Mo	129923.30	P	840.40	0.65
109	Ag	327915.50	P	2524.00	0.77
111	Cd	65314.66	P	457.30	0.70
115	In	739931.81	M	14800.00	2.00
121	Sb	177536.70	P	1757.00	0.99
137	Ba	83505.55	P	1025.00	1.23
205	Tl	546468.88	P	3176.00	0.58
208	Pb	804894.38	P	11850.00	1.47
209	Bi	583597.69	P	5004.00	0.86

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1094026.30	2.07	1139817.40	96.0	80 - 120	

45 Sc	624198.06	0.89	634190.31	98.4	80 -	120
72 Ge	131387.55	1.46	133388.67	98.5	80 -	120
115 In	739931.88	2.00	777896.94	95.1	80 -	120
209 Bi	583597.75	0.86	641813.31	90.9	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2517a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**

ISTD: **Pass**

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2517a.B\009CALI.D\009CALI.D#
Date Acquired:	Mar 25 2006 05:52 pm
Operator:	
Sample Name:	CS6,S2887
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 25 2006 05:48 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	1111770.00	A	30310.00	2.73
9	Be	484173.81	A	13430.00	2.77
23	Na	178841600.00	A	898200.00	0.50
26	Mg	18677200.00	A	78020.00	0.42
27	Al	1643430.00	A	22550.00	1.37
39	K	121581600.00	A	2930000.00	2.41
44	Ca	3181111.00	A	18110.00	0.57
45	Sc	656669.63	A	5569.00	0.85
51	V	1159894.00	A	17720.00	1.53
52	Cr	957627.81	A	10020.00	1.05
55	Mn	1289983.00	A	16770.00	1.30
57	Fe	2803564.00	A	43380.00	1.55
59	Co	1233926.00	A	30660.00	2.48
60	Ni	263676.69	P	5233.00	1.98
65	Cu	322235.19	P	3665.00	1.14
66	Zn	172067.70	P	2271.00	1.32
72	Ge	135881.30	P	1123.00	0.83
75	As	157882.20	P	1372.00	0.87
82	Se	15416.00	P	128.70	0.83
95	Mo	296250.00	P	1416.00	0.48
109	Ag	721276.63	P	9896.00	1.37
111	Cd	141477.80	P	1178.00	0.83
115	In	752624.38	M	12350.00	1.64
121	Sb	385201.09	P	2676.00	0.69
137	Ba	188264.41	P	201.00	0.11
205	Tl	1259054.00	A	16310.00	1.30
208	Pb	1685944.00	P	1982.00	0.12
209	Bi	582791.13	P	2048.00	0.35

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6	Li	1111769.80	2.73	1139817.40	97.5	80 -	120	

45	Sc	656669.56	0.85	634190.31	103.5	80 -	120
72	Ge	135881.33	0.83	133388.67	101.9	80 -	120
115	In	752624.38	1.64	777896.94	96.8	80 -	120
209	Bi	582791.06	0.35	641813.31	90.8	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2517a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**

ISTD: **Pass**

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987013 File : c2517013 Time : 25-MAR-2006 18:18
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2895, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	1.6420	0.6383	100.0	102.2	ug/L	2	10	
Antimony	0.1796	0.1248	100.0	98.62	ug/L	-1	10	
Arsenic	0.3225	0.2777	100.0	96.99	ug/L	-3	10	
Barium	0.0659	0.0588	100.0	95.87	ug/L	-4	10	
Beryllium	0.1182	0.1114	100.0	102.3	ug/L	2	10	
Cadmium	0.3603	0.2572	100.0	99.57	ug/L	0	10	
Calcium	0.0133	0.0121	10000	10050	ug/L	1	10	
Chromium	2.5425	1.7027	100.0	97.63	ug/L	-2	10	
Cobalt	2.3244	2.1303	100.0	95.66	ug/L	-4	10	
Copper	0.6383	0.5746	100.0	98.24	ug/L	-2	10	
Iron	0.0578	0.0503	10000	9881	ug/L	-1	10	
Lead	0.7261	0.6946	100.0	96.93	ug/L	-3	10	
Magnesium	0.0753	0.0710	10000	10110	ug/L	1	10	
Manganese	2.5751	2.2485	100.0	96.43	ug/L	-4	10	
Molybdenum	0.5509	0.5125	100.0	95.77	ug/L	-4	10	
Nickel	0.5202	0.4697	100.0	97.85	ug/L	-2	10	
Potassium	0.6373	0.4570	10000	10010	ug/L	0	10	
Selenium	0.0372	0.0282	100.0	100.2	ug/L	0	10	
Silver	1.6971	1.2974	100.0	98.84	ug/L	-1	10	
Sodium	0.7420	0.6833	10000	10140	ug/L	1	10	
Thallium	0.5159	0.4822	100.0	91.70	ug/L	-8	10	
Vanadium	2.3536	2.0275	100.0	96.70	ug/L	-3	10	
Zinc	0.4171	0.3172	100.0	100.8	ug/L	1	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1123841	-1.40
Scandium	634190	634586	0.06
Germanium	133389	136011	1.97
Indium	777897	767915	-1.28
Bismuth	641813	607116	-5.41

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56121987026 File : c2517026 IDF : 1.0
Cal : 56121987001 Caldate: 25-MAR-2006 Time : 25-MAR-2006 19:29
Standards: S2896, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.6671	100.0	107.0	ug/L	7	10	
Antimony	0.1796	0.1284	100.0	101.5	ug/L	2	10	
Arsenic	0.3225	0.2817	100.0	98.36	ug/L	-2	10	
Barium	0.0659	0.0620	100.0	101.0	ug/L	1	10	
Beryllium	0.1182	0.1116	100.0	102.4	ug/L	2	10	
Cadmium	0.3603	0.2679	100.0	103.7	ug/L	4	10	
Calcium	0.0133	0.0124	10000	10290	ug/L	3	10	
Chromium	2.5425	1.7611	100.0	101.0	ug/L	1	10	
Cobalt	2.3244	2.2555	100.0	101.3	ug/L	1	10	
Copper	0.6383	0.5965	100.0	102.0	ug/L	2	10	
Iron	0.0578	0.0540	10000	10610	ug/L	6	10	
Lead	0.7261	0.7082	100.0	98.83	ug/L	-1	10	
Magnesium	0.0753	0.0739	10000	10530	ug/L	5	10	
Manganese	2.5751	2.4006	100.0	103.0	ug/L	3	10	
Molybdenum	0.5509	0.5257	100.0	98.24	ug/L	-2	10	
Nickel	0.5202	0.4929	100.0	102.7	ug/L	3	10	
Potassium	0.6373	0.4523	10000	9903	ug/L	-1	10	
Selenium	0.0372	0.0283	100.0	100.6	ug/L	1	10	
Silver	1.6971	1.3538	100.0	103.1	ug/L	3	10	
Sodium	0.7420	0.7380	10000	10960	ug/L	10	10	
Thallium	0.5159	0.4956	100.0	94.26	ug/L	-6	10	
Vanadium	2.3536	2.0640	100.0	98.45	ug/L	-2	10	
Zinc	0.4171	0.3308	100.0	105.1	ug/L	5	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1061300	-6.89
Scandium	634190	550830	-13.14
Germanium	133389	129717	-2.75
Indium	777897	771565	-0.81
Bismuth	641813	621164	-3.22

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987040 File : c2517040 Time : 25-MAR-2006 20:47
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2896, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.6684	100.0	107.2	ug/L	7	10	
Antimony	0.1796	0.1280	100.0	101.1	ug/L	1	10	
Arsenic	0.3225	0.2797	100.0	97.68	ug/L	-2	10	
Barium	0.0659	0.0618	100.0	100.7	ug/L	1	10	
Beryllium	0.1182	0.1072	100.0	98.42	ug/L	-2	10	
Cadmium	0.3603	0.2664	100.0	103.1	ug/L	3	10	
Calcium	0.0133	0.0123	10000	10220	ug/L	2	10	
Chromium	2.5425	1.7749	100.0	101.8	ug/L	2	10	
Cobalt	2.3244	2.2544	100.0	101.2	ug/L	1	10	
Copper	0.6383	0.5970	100.0	102.1	ug/L	2	10	
Iron	0.0578	0.0534	10000	10490	ug/L	5	10	
Lead	0.7261	0.7102	100.0	99.10	ug/L	-1	10	
Magnesium	0.0753	0.0745	10000	10610	ug/L	6	10	
Manganese	2.5751	2.3988	100.0	102.9	ug/L	3	10	
Molybdenum	0.5509	0.5205	100.0	97.27	ug/L	-3	10	
Nickel	0.5202	0.5029	100.0	104.8	ug/L	5	10	
Potassium	0.6373	0.4600	10000	10070	ug/L	1	10	
Selenium	0.0372	0.0276	100.0	98.15	ug/L	-2	10	
Silver	1.6971	1.3500	100.0	102.9	ug/L	3	10	
Sodium	0.7420	0.7429	10000	11030	ug/L	10	10	
Thallium	0.5159	0.4963	100.0	94.38	ug/L	-6	10	
Vanadium	2.3536	2.0145	100.0	96.08	ug/L	-4	10	
Zinc	0.4171	0.3297	100.0	104.8	ug/L	5	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1102280	-3.29
Scandium	634190	550965	-13.12
Germanium	133389	130911	-1.86
Indium	777897	781234	0.43
Bismuth	641813	625052	-2.61

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56121987059 File : c2517059 IDF : 1.0
Cal : 56121987001 Caldate: 25-MAR-2006 Time : 25-MAR-2006 22:31
Standards: S2896, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.6708	100.0	107.6	ug/L	8	10	
Antimony	0.1796	0.1297	100.0	102.5	ug/L	3	10	
Arsenic	0.3225	0.2741	100.0	95.70	ug/L	-4	10	
Barium	0.0659	0.0621	100.0	101.3	ug/L	1	10	
Beryllium	0.1182	0.1067	100.0	98.01	ug/L	-2	10	
Cadmium	0.3603	0.2731	100.0	105.7	ug/L	6	10	
Calcium	0.0133	0.0127	10000	10540	ug/L	5	10	
Chromium	2.5425	1.7468	100.0	100.2	ug/L	0	10	
Cobalt	2.3244	2.2016	100.0	98.87	ug/L	-1	10	
Copper	0.6383	0.5752	100.0	98.36	ug/L	-2	10	
Iron	0.0578	0.0528	10000	10350	ug/L	4	10	
Lead	0.7261	0.6921	100.0	96.59	ug/L	-3	10	
Magnesium	0.0753	0.0742	10000	10570	ug/L	6	10	
Manganese	2.5751	2.3459	100.0	100.6	ug/L	1	10	
Molybdenum	0.5509	0.5237	100.0	97.88	ug/L	-2	10	
Nickel	0.5202	0.4894	100.0	102.0	ug/L	2	10	
Potassium	0.6373	0.4461	10000	9767	ug/L	-2	10	
Selenium	0.0372	0.0278	100.0	98.84	ug/L	-1	10	
Silver	1.6971	1.3643	100.0	103.9	ug/L	4	10	
Sodium	0.7420	0.7494	10000	11120	ug/L	**11**	10	c+ ***
Thallium	0.5159	0.4803	100.0	91.35	ug/L	-9	10	
Vanadium	2.3536	1.9752	100.0	94.20	ug/L	-6	10	
Zinc	0.4171	0.3243	100.0	103.0	ug/L	3	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1024016	-10.16
Scandium	634190	484073	-23.67
Germanium	133389	120192	-9.89
Indium	777897	728547	-6.34
Bismuth	641813	618298	-3.66

+=high bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56121987014 File : c2517014 IDF : 1.0
Cal : 56121987001 Caldate: 25-MAR-2006 Time : 25-MAR-2006 18:23

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	0.3810	0.2500	0.03394	ug/L	ib ***
Arsenic	[0.1983]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.01226]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.01587]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01746]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.01849]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2474]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1841]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1100289	-3.47
Scandium	634190	603776	-4.80
Germanium	133389	131176	-1.66
Indium	777897	768003	-1.27
Bismuth	641813	612511	-4.57

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56121987029 File : c2517029 IDF : 1.0
Cal : 56121987001 Caldate: 25-MAR-2006 Time : 25-MAR-2006 19:46

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1049]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.01272]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01128]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.03267]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1071784	-5.97
Scandium	634190	544066	-14.21
Germanium	133389	127891	-4.12
Indium	777897	761628	-2.09
Bismuth	641813	639000	-0.44

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56121987043 File : c2517043 IDF : 1.0
Cal : 56121987001 Caldate: 25-MAR-2006 Time : 25-MAR-2006 21:03

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.07725]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1515]	0.5000	0.09029	ug/L	!ib
Barium	[0.02682]	0.2500	0.02391	ug/L	!ib
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.07091]	0.5000	0.03860	ug/L	!ib
Cobalt	[0.01611]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01140]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.01946]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.03705]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	[0.1202]	1.000	0.09577	ug/L	!ib

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1120370	-1.71
Scandium	634190	525881	-17.08
Germanium	133389	131000	-1.79
Indium	777897	764880	-1.67
Bismuth	641813	640607	-0.19

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987062 File : c2517062 Time : 25-MAR-2006 22:48
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.07487]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1302]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.009253]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01342]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2558]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.02297]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1073848	-5.79
Scandium	634190	503446	-20.62
Germanium	133389	120349	-9.78
Indium	777897	748345	-3.80
Bismuth	641813	640870	-0.15

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987015 File : c2517015 Time : 25-MAR-2006 18:29
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	104700	ug/L	5		
Arsenic	100.0	99.11	ug/L	-1	20	
Cadmium	100.0	89.07	ug/L	-11	20	
Calcium	300000	339900	ug/L	13		
Chromium	200.0	234.0	ug/L	17	20	
Cobalt	200.0	225.3	ug/L	13	20	
Copper	200.0	192.3	ug/L	-4	20	
Iron	250000	268400	ug/L	7		
Magnesium	100000	112800	ug/L	13		
Manganese	200.0	233.7	ug/L	17	20	
Molybdenum	2000	2242	ug/L	12		
Nickel	200.0	207.6	ug/L	4	20	
Potassium	100000	108700	ug/L	9		
Selenium	100.0	81.51	ug/L	-18	20	
Silver	50.00	46.19	ug/L	-8	20	
Sodium	250000	289100	ug/L	16		
Vanadium	200.0	235.7	ug/L	18	20	
Zinc	100.0	80.75	ug/L	-19	20	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Scandium	634190	466890	-26.38
Germanium	133389	110042	-17.50

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05
Seqnum : 56121987016 File : c2517016
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2893, 05WS0207

IDF : 1.0
Time : 25-MAR-2006 18:34

Interferent	Quant	RL	Units	Flags
Antimony	2.946	0.2500	ug/L	
Arsenic	0.7101	0.5000	ug/L	
Barium	1.173	0.2500	ug/L	
Beryllium	[0.008757]	0.2500	ug/L	
Cadmium	[0.1108]	0.2500	ug/L	
Chromium	2.143	0.5000	ug/L	
Cobalt	3.311	0.2500	ug/L	
Copper	2.145	0.5000	ug/L	
Lead	1.411	0.2500	ug/L	
Manganese	1.289	0.2500	ug/L	
Nickel	2.485	0.2500	ug/L	
Selenium	[0.3048]	0.5000	ug/L	
Silver	[0.1309]	0.2500	ug/L	
Thallium	[0.06303]	0.5000	ug/L	
Vanadium	[0.3017]	1.000	ug/L	
Zinc	3.143	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	103400	ug/L	103
Calcium	300000	348400	ug/L	116
Iron	250000	281200	ug/L	112
Magnesium	100000	111300	ug/L	111
Molybdenum	2000	2292	ug/L	115
Potassium	100000	108500	ug/L	109
Sodium	250000	292600	ug/L	117

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	847328	-25.66
Scandium	634190	453404	-28.51
Germanium	133389	108022	-19.02
Indium	777897	613455	-21.14
Bismuth	641813	437540	-31.83

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987051 File : c2517051 Time : 25-MAR-2006 21:47
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.574	0.2500	ug/L	
Arsenic	0.8331	0.5000	ug/L	
Barium	1.124	0.2500	ug/L	
Beryllium	[0.02156]	0.2500	ug/L	
Cadmium	[0.05292]	0.2500	ug/L	
Chromium	2.004	0.5000	ug/L	
Cobalt	3.213	0.2500	ug/L	
Copper	2.219	0.5000	ug/L	
Lead	1.346	0.2500	ug/L	
Manganese	1.264	0.2500	ug/L	
Nickel	2.285	0.2500	ug/L	
Selenium	0.6368	0.5000	ug/L	
Silver	[0]	0.2500	ug/L	
Thallium	[0.1215]	0.5000	ug/L	
Vanadium	[0.2434]	1.000	ug/L	
Zinc	3.194	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	96790	ug/L	97
Calcium	300000	329800	ug/L	110
Iron	250000	277700	ug/L	111
Magnesium	100000	105500	ug/L	106
Molybdenum	2000	2285	ug/L	114
Potassium	100000	100000	ug/L	100
Sodium	250000	277500	ug/L	111

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	845474	-25.82
Scandium	634190	432354	-31.83
Germanium	133389	103499	-22.41
Indium	777897	618021	-20.55
Bismuth	641813	443853	-30.84

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05
Seqnum : 56121987053 File : c2517053 IDF : 1.0
Cal : 56121987001 Caldate: 25-MAR-2006 Time : 25-MAR-2006 21:58
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	96260	ug/L	-4		
Arsenic	100.0	91.56	ug/L	-8	20	
Cadmium	100.0	89.71	ug/L	-10	20	
Calcium	300000	334200	ug/L	11		
Chromium	200.0	221.9	ug/L	11	20	
Cobalt	200.0	216.3	ug/L	8	20	
Copper	200.0	179.8	ug/L	-10	20	
Iron	250000	273900	ug/L	10		
Magnesium	100000	104300	ug/L	4		
Manganese	200.0	229.2	ug/L	15	20	
Molybdenum	2000	2295	ug/L	15		
Nickel	200.0	196.4	ug/L	-2	20	
Potassium	100000	100700	ug/L	1		
Selenium	100.0	80.92	ug/L	-19	20	
Silver	50.00	45.10	ug/L	-10	20	
Sodium	250000	272900	ug/L	9		
Vanadium	200.0	221.1	ug/L	11	20	
Zinc	100.0	83.06	ug/L	-17	20	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Scandium	634190	409139	-35.49
Germanium	133389	97933	-26.58

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56121987 Instrument: MET05 Agilent ICP-MS Begun: 25-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	c2517001	TUN				25-MAR-2006 17:07	1.0	1.0				1	
003	c2517003	ICALBLK	std-blk			25-MAR-2006 17:19	1.0	1.0				2	
004	c2517004	ICAL	CS1			25-MAR-2006 17:25	1.0	1.0				3	
005	c2517005	ICAL	CS2			25-MAR-2006 17:30	1.0	1.0				4	
006	c2517006	ICAL	CS3			25-MAR-2006 17:36	1.0	1.0				5	
007	c2517007	ICAL	CS4			25-MAR-2006 17:41	1.0	1.0				6	
008	c2517008	ICAL	CS5			25-MAR-2006 17:47	1.0	1.0				7	
009	c2517009	ICAL	CS6			25-MAR-2006 17:52	1.0	1.0				8	
013	c2517013	ICV				25-MAR-2006 18:18	1.0	1.0			1	9 2	
014	c2517014	ICB				25-MAR-2006 18:23	1.0	1.0	1		1	2	
015	c2517015	ICSAB				25-MAR-2006 18:29	1.0	1.0			1	10 2	12:CA=339900
016	c2517016	ICSA				25-MAR-2006 18:34	1.0	1.0			1	11 2	7:CA=348400
019	c2517019	BLANK	QC332965	111659	Water	25-MAR-2006 18:51	1.0	1.0			1	2	
020	c2517020	BS	QC332966	111659	Water	25-MAR-2006 18:56	1.0	1.0			1	2	
021	c2517021	BSD	QC332967	111659	Water	25-MAR-2006 19:02	1.0	1.0		3	1	2 spk	
022	c2517022	MSS	185408-008	111659	Water	25-MAR-2006 19:07	1.0	1.0	4		1	2 spk	3:NA=252540.0
023	c2517023	SER	QC332972	111659	Water	25-MAR-2006 19:13	5.0	1.0		5	1	2	1:AL=1231.80
024	c2517024	MSS	185408-008	111659	Water	25-MAR-2006 19:18	20.0	1.0	1		1	2 spk	1:AL=369.650
025	c2517025	SER	QC332972	111659	Water	25-MAR-2006 19:24	100.0	1.0		1	1	2	
026	c2517026	CCV				25-MAR-2006 19:29	1.0	1.0			1	12 2	
029	c2517029	CCB				25-MAR-2006 19:46	1.0	1.0			1	2	
030	c2517030	MS	QC332968	111659	Water	25-MAR-2006 19:51	1.0	1.0	6		1	2	7:NA=36540.0
031	c2517031	MSD	QC332969	111659	Water	25-MAR-2006 19:57	1.0	1.0	6		1	2	7:NA=35540.0
032	c2517032	PDS	QC332973	111659	Water	25-MAR-2006 20:02	1.0	1.0	4		1	13 2	7:NA=38500.0
033	c2517033	MS	QC332968	111659	Water	25-MAR-2006 20:08	20.0	1.0		1	1	2	1:AL=433.300
034	c2517034	MSD	QC332969	111659	Water	25-MAR-2006 20:13	20.0	1.0			1	2	1:AL=411.050
035	c2517035	PDS	QC332973	111659	Water	25-MAR-2006 20:19	20.0	1.0			1	13 2	1:AL=418.850
036	c2517036	MSS	185408-010	111659	Water	25-MAR-2006 20:25	1.0	1.0	5		1	2 spk	5:NA=52530.0
037	c2517037	SAMPLE	185408-009	111659	Water	25-MAR-2006 20:30	1.0	1.0	2		1	2 spk	2:NA=23620.0
038	c2517038	SAMPLE	185408-009	111659	Water	25-MAR-2006 20:35	20.0	1.0	1		1	2 spk	1:AL=317.400

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2894 11=S2893 12=S2896 13=S2309 14=S28

Flags used: spk=5% spike rule

Analyst: [illegible] Date: 3/28/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56121987 Instrument: MET05 Agilent ICP-MS Begun: 25-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
040	c2517040	CCV				25-MAR-2006 20:47	1.0	1.0			1	12 2	
043	c2517043	CCB				25-MAR-2006 21:03	1.0	1.0			1	2	
044	c2517044	MS	QC332970	111659	Water	25-MAR-2006 21:09	1.0	1.0	3		1	2	6:NA=60660.0
045	c2517045	MSD	QC332971	111659	Water	25-MAR-2006 21:14	1.0	1.0	3		1	2	6:NA=60550.0
046	c2517046	MSS	185408-010	111659	Water	25-MAR-2006 21:20	20.0	1.0	2		1	2 spk	1:AL=222.750
047	c2517047	MS	QC332970	111659	Water	25-MAR-2006 21:25	20.0	1.0		1	1	2	
048	c2517048	MSD	QC332971	111659	Water	25-MAR-2006 21:31	20.0	1.0		1	1	2	
049	c2517049	SAMPLE	185408-011	111659	Water	25-MAR-2006 21:36	1.0	1.0	5		1	2 spk	5:NA=48350.0
050	c2517050	SAMPLE	185408-011	111659	Water	25-MAR-2006 21:42	20.0	1.0	2		1	2 spk	1:AL=234.950
051	c2517051	ICSA				25-MAR-2006 21:47	1.0	1.0			1	11 2	7:CA=329800
053	c2517053	ICSAB				25-MAR-2006 21:58	1.0	1.0			1	10 2	11:CA=334200
059	c2517059	CCV				25-MAR-2006 22:31	1.0	1.0	1		1	12 2	
062	c2517062	CCB				25-MAR-2006 22:48	1.0	1.0			1	2	
063	c2517063	SAMPLE	185586-023	111436	Filtra	25-MAR-2006 22:53	1.0	1.0	1		1	2	
064	c2517064	SAMPLE	185586-024	111436	Filtra	25-MAR-2006 22:59	1.0	1.0	3		1	2	3:MG=64630.0
065	c2517065	SAMPLE	185586-025	111436	Filtra	25-MAR-2006 23:04	1.0	1.0	2		1	2	2:MG=52820.0
066	c2517066	SAMPLE	185586-026	111436	Filtra	25-MAR-2006 23:10	1.0	1.0	3		1	2	3:NA=66300.0
067	c2517067	SAMPLE	185586-001	111436	Filtra	25-MAR-2006 23:15	20.0	1.0	1		1	2	
068	c2517068	SAMPLE	185586-002	111436	Filtra	25-MAR-2006 23:21	20.0	1.0	2		1	2	1:MN=212.200
069	c2517069	SAMPLE	185586-003	111436	Filtra	25-MAR-2006 23:27	20.0	1.0	1		1	2	
070	c2517070	SAMPLE	185586-018	111436	Filtra	25-MAR-2006 23:32	20.0	1.0	1		1	2	
071	c2517071	SAMPLE	185586-019	111436	Filtra	25-MAR-2006 23:38	20.0	1.0	1		1	2	
073	c2517073	CCV				25-MAR-2006 23:49	1.0	1.0			1	12 2	
076	c2517076	CCB				26-MAR-2006 00:05	1.0	1.0			1	2	
077	c2517077	SAMPLE	185586-020	111436	Filtra	26-MAR-2006 00:11	20.0	1.0	3		1	2	
078	c2517078	SAMPLE	185586-021	111436	Filtra	26-MAR-2006 00:17	20.0	1.0	3		1	2	
079	c2517079	SAMPLE	185586-022	111436	Filtra	26-MAR-2006 00:22	20.0	1.0	1		1	2	
080	c2517080	SAMPLE	185586-023	111436	Filtra	26-MAR-2006 00:28	20.0	1.0	1		1	2	
081	c2517081	SAMPLE	185586-024	111436	Filtra	26-MAR-2006 00:33	20.0	1.0	1		1	2	
082	c2517082	SAMPLE	185586-025	111436	Filtra	26-MAR-2006 00:39	20.0	1.0	1		1	2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2894 11=S2893 12=S2896 13=S2309 14=S28
Flags used: spk=5% spike rule

Analyst: [signature] Date: 3/30/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56121987 Instrument: MET05 Agilent ICP-MS Begun: 25-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
083	c2517083	SAMPLE	185586-026	111436	Filtra	26-MAR-2006 00:44	20.0	1.0	1		1	2	
084	c2517084	SAMPLE	185558-011	111421	Filtra	26-MAR-2006 00:50	1.0	1.0	6		1	2	4:NA=160600
085	c2517085	SAMPLE	185558-012	111421	Filtra	26-MAR-2006 00:56	1.0	1.0	7		1	2	4:MG=91140.0
086	c2517086	SAMPLE	185558-013	111421	Filtra	26-MAR-2006 01:01	1.0	1.0	6		1	2	3:MG=102800
088	c2517088	CCV			Filtra	26-MAR-2006 01:12	1.0	1.0	6		1	14 2	
090	c2517090	CCB			Filtra	26-MAR-2006 01:23	1.0	1.0			1	2	
091	c2517091	SAMPLE	185558-014	111421	Filtra	26-MAR-2006 01:29	1.0	1.0	6		1	2	4:MG=157400
092	c2517092	SAMPLE	185558-015	111421	Filtra	26-MAR-2006 01:34	1.0	1.0	5		1	2	3:NA=59300.0
093	c2517093	SAMPLE	185558-016	111421	Filtra	26-MAR-2006 01:40	1.0	1.0	5		1	2	4:MG=63060.0
094	c2517094	SAMPLE	185558-017	111421	Filtra	26-MAR-2006 01:45	1.0	1.0	3		1	2	2:NA=154800
095	c2517095	SAMPLE	185558-018	111421	Filtra	26-MAR-2006 01:51	1.0	1.0	5		1	2	3:NA=160000
097	c2517097	CCV				26-MAR-2006 02:02	1.0	1.0	8		1	14 2	
099	c2517099	CCB				26-MAR-2006 02:13	1.0	1.0			1	2	
100	c2517100	TUN				26-MAR-2006 02:19	1.0	1.0				1	
101	c2517101	SAMPLE	185558-019	111421	Filtra	26-MAR-2006 02:25	1.0	1.0	5		1	2	6:CA=94520.0
102	c2517102	SAMPLE	185558-020	111421	Filtra	26-MAR-2006 02:31	1.0	1.0	5		1	2	4:CA=82420.0
103	c2517103	SAMPLE	185558-022	111421	Filtra	26-MAR-2006 02:36	1.0	1.0	6		1	2	7:CA=133700
104	c2517104	SAMPLE	185558-026	111421	Filtra	26-MAR-2006 02:42	1.0	1.0	5		1	2	4:NA=65320.0
105	c2517105	SAMPLE	185558-027	111421	Filtra	26-MAR-2006 02:47	1.0	1.0	4		1	2	1:NA=316300
106	c2517106	SAMPLE	185558-011	111421	Filtra	26-MAR-2006 02:53	20.0	1.0	4		1	2	
107	c2517107	SAMPLE	185558-012	111421	Filtra	26-MAR-2006 02:58	20.0	1.0	2		1	2	
108	c2517108	SAMPLE	185558-013	111421	Filtra	26-MAR-2006 03:04	20.0	1.0	2		1	2	
109	c2517109	SAMPLE	185558-014	111421	Filtra	26-MAR-2006 03:09	20.0	1.0	3		1	2	
111	c2517111	CCV				26-MAR-2006 03:21	1.0	1.0	8		1	14 2	
113	c2517113	CCB				26-MAR-2006 03:32	1.0	1.0			1	2	
114	c2517114	SAMPLE	185558-015	111421	Filtra	26-MAR-2006 03:37	20.0	1.0	2		1	2	
115	c2517115	SAMPLE	185558-016	111421	Filtra	26-MAR-2006 03:43	20.0	1.0	4		1	2	
116	c2517116	SAMPLE	185558-017	111421	Filtra	26-MAR-2006 03:48	20.0	1.0	3		1	2	
117	c2517117	SAMPLE	185558-018	111421	Filtra	26-MAR-2006 03:54	20.0	1.0	3		1	2	
118	c2517118	SAMPLE	185558-019	111421	Filtra	26-MAR-2006 04:00	20.0	1.0	4		1	2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2894 11=S2893 12=S2896 13=S2309 14=S28
Flags used: spk=5% spike rule

Analyst: [signature] Date: 3/25/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56121987 Instrument: MET05 Agilent ICP-MS Begun: 25-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
119	c2517119	SAMPLE	185558-020	111421	Filtra	26-MAR-2006 04:05	20.0	1.0	4		1	2	
120	c2517120	SAMPLE	185558-022	111421	Filtra	26-MAR-2006 04:11	20.0	1.0	4		1	2	
121	c2517121	SAMPLE	185558-026	111421	Filtra	26-MAR-2006 04:16	20.0	1.0	3		1	2	
122	c2517122	SAMPLE	185558-027	111421	Filtra	26-MAR-2006 04:22	20.0	1.0	1		1	2	
124	c2517124	CCV				26-MAR-2006 04:33	1.0	1.0	7		1	14 2	
126	c2517126	CCB				26-MAR-2006 04:44	1.0	1.0			1	2	
127	c2517127	ICSA				26-MAR-2006 04:50	1.0	1.0			1	11 2	7:CA=340600
129	c2517129	ICSAB				26-MAR-2006 05:00	1.0	1.0			1	10 2	12:CA=340400
131	c2517131	BLANK	QC332485	111547	Filtra	26-MAR-2006 05:11	1.0	1.0	7		1	2	
132	c2517132	BS	QC332486	111547	Filtra	26-MAR-2006 05:17	1.0	1.0	7	1	1	2	
133	c2517133	BSD	QC332487	111547	Filtra	26-MAR-2006 05:22	1.0	1.0	7	11	1	2 spk	
134	c2517134	MSS	185414-001	111547	Filtra	26-MAR-2006 05:28	1.0	1.0	5		1	2 spk	1:NA=21870.0
135	c2517135	SER	QC332490	111547	Filtra	26-MAR-2006 05:34	5.0	1.0			1	2	
136	c2517136	MS	QC332488	111547	Filtra	26-MAR-2006 05:39	1.0	1.0	3		1	2	2:NA=34740.0
137	c2517137	MSD	QC332489	111547	Filtra	26-MAR-2006 05:45	1.0	1.0	3	1	1	2	2:NA=32750.0
139	c2517139	CCV				26-MAR-2006 05:56	1.0	1.0	2		1	14 2	
141	c2517141	CCB				26-MAR-2006 06:07	1.0	1.0			1	2	
146	c2517146	SAMPLE	185414-002	111547	Filtra	26-MAR-2006 06:34	1.0	1.0	2		1	2 spk	1:NA=37960.0
147	c2517147	SAMPLE	185414-003	111547	Filtra	26-MAR-2006 06:40	1.0	1.0	2		1	2 spk	1:NA=42380.0
148	c2517148	SAMPLE	185414-004	111547	Filtra	26-MAR-2006 06:46	1.0	1.0	1		1	2 spk	2:CA=34290.0
149	c2517149	SAMPLE	185414-005	111547	Filtra	26-MAR-2006 06:51	1.0	1.0	1		1	2 spk	4:CA=41030.0
150	c2517150	SAMPLE	185414-006	111547	Filtra	26-MAR-2006 06:57	1.0	1.0	2		1	2 spk	1:NA=46520.0
151	c2517151	SAMPLE	185414-007	111547	Filtra	26-MAR-2006 07:02	1.0	1.0	2		1	2 spk	3:CA=45570.0
152	c2517152	SAMPLE	185414-008	111547	Filtra	26-MAR-2006 07:08	1.0	1.0	2		1	2 spk	2:NA=23960.0
153	c2517153	SAMPLE	185414-009	111547	Filtra	26-MAR-2006 07:13	1.0	1.0	4		1	2 spk	6:CA=95500.0
154	c2517154	SAMPLE	185414-010	111547	Filtra	26-MAR-2006 07:19	1.0	1.0	2		1	2 spk	4:CA=44360.0
156	c2517156	CCV				26-MAR-2006 07:30	1.0	1.0	6		1	14 2	
158	c2517158	CCB				26-MAR-2006 07:41	1.0	1.0			1	2	
159	c2517159	TUN				26-MAR-2006 07:47	1.0	1.0				1	
160	c2517160	SAMPLE	185414-011	111547	Filtra	26-MAR-2006 07:53	1.0	1.0	3		1	2 spk	3:FE=51060.0

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2894 11=S2893 12=S2896 13=S2309 14=S28
Flags used: spk=5% spike rule

Analyst: [signature] Date: 3/28/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56121987 Instrument: MET05 Agilent ICP-MS Begun: 25-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
161	c2517161	SAMPLE	185414-012	111547	Filtra	26-MAR-2006 07:59	1.0	1.0	2		1	2 spk	1:NA=39240.0
162	c2517162	SAMPLE	185414-013	111547	Filtra	26-MAR-2006 08:04	1.0	1.0	2		1	2 spk	1:NA=31470.0
163	c2517163	SAMPLE	185683-001	111547	Water	26-MAR-2006 08:10	1.0	1.0	1		1	2 spk	3:NA=81660.0
164	c2517164	SAMPLE	185684-001	111547	Water	26-MAR-2006 08:15	1.0	1.0	1		1	2 spk	1:AL=757.400
165	c2517165	SAMPLE	185685-001	111547	Water	26-MAR-2006 08:21	1.0	1.0	1		1	2 spk	2:NA=88630.0
166	c2517166	SAMPLE	185686-001	111547	Water	26-MAR-2006 08:27	1.0	1.0	1		1	2 spk	2:NA=66820.0
167	c2517167	SAMPLE	185687-001	111547	Water	26-MAR-2006 08:32	1.0	1.0	1		1	2 spk	
168	c2517168	SAMPLE	185688-001	111547	Water	26-MAR-2006 08:38	1.0	1.0	1		1	2 spk	1:AL=2407.00
170	c2517170	CCV				26-MAR-2006 08:49	1.0	1.0	2		1	14 2	
172	c2517172	CCB				26-MAR-2006 09:00	1.0	1.0			1	2	
175	c2517175	ICSAB				26-MAR-2006 09:16	1.0	1.0			1	10 2	12:CA=344200
179	c2517179	CCV				26-MAR-2006 09:38	1.0	1.0	1		1	14 2	
181	c2517181	CCB				26-MAR-2006 09:49	1.0	1.0			1	2	
182	c2517182	ICSA				26-MAR-2006 09:55	1.0	1.0			1	11 2	7:CA=330000
183	c2517183	ICSAB				26-MAR-2006 10:01	1.0	1.0	3		1	10 2	12:CA=337400
186	c2517186	CCV				26-MAR-2006 10:17	1.0	1.0	3		1	14 2	
188	c2517188	CCB				26-MAR-2006 10:28	1.0	1.0			1	2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2894 11=S2893 12=S2896 13=S2309 14=S28
Flags used: spk=5% spike rule

Analyst: [signature] Date: 3/28/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56124633001
Units : ug/L

Date : 27-MAR-2006 13:24
X Axis : R

Reviewer: ---
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	c2713004	56124633004	CS1	27-MAR-2006 13:30	S2889
L2	c2713005	56124633005	CS2	27-MAR-2006 13:35	S2890
L3	c2713006	56124633006	CS3	27-MAR-2006 13:41	S2891
L4	c2713007	56124633007	CS4	27-MAR-2006 13:47	S2892
L5	c2713008	56124633008	CS5	27-MAR-2006 13:52	S2886
L6	c2713009	56124633009	CS6	27-MAR-2006 13:58	S2887

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		0.4818	0.7160	0.1817	0.1691	0.1670	BLNK	-0.8702	6.00317		0.3431	1.000	0.995	
Antimony	0.3331	0.1954	0.1493	0.1009	0.0993	0.0995	BLNK	-0.6369	10.0899		0.1629	1.000	0.995	
Arsenic		0.3015	0.2050	0.1691	0.1675	0.1730	BLNK	-0.2687	5.82847		0.2032	1.000	0.995	
Barium	0.0471	0.0404	0.0370	0.0342	0.0346	0.0357	BLNK	-0.0454	28.1719		0.0382	1.000	0.995	
Beryllium	0.0663	0.0599	0.0543	0.0555	0.0571	0.0583	BLNK	-0.0413	17.2336		0.0586	1.000	0.995	
Cadmium	0.4202	0.3349	0.2659	0.1958	0.1861	0.1854	BLNK	-0.3552	5.40134		0.2647	1.000	0.995	
Calcium		0.0158	0.0105	0.0069	0.0071	0.0069	BLNK	-71.658	145.140		0.0094	1.000	0.995	
Chromium		1.9898	1.4479	1.0339	0.9979	1.0094	BLNK	-0.4730	0.99577		1.2958	1.000	0.995	
Cobalt	1.3050	1.1725	1.1470	1.0611	1.0492	1.1039	BLNK	-0.0326	0.91518		1.1398	0.999	0.995	
Copper		0.3896	0.3130	0.2763	0.2668	0.2718	BLNK	-0.1408	3.69578		0.3035	1.000	0.995	
Iron		0.0492	0.0385	0.0277	0.0279	0.0278	BLNK	-39.586	36.0448		0.0342	1.000	0.995	
Lead	0.4359	0.3541	0.3544	0.3484	0.3890	0.3647	BLNK	-0.0464	2.70718		0.3744	0.999	0.995	
Magnesium		0.0213	0.0214	0.0207	0.0214	0.0206	BLNK	-0.8989	48.1776		0.0211	1.000	0.995	
Manganese	2.1008	1.7511	1.5423	1.3950	1.3483	1.3641	BLNK	-0.1282	0.73535		1.5836	1.000	0.995	
Molybdenum		0.3634	0.3536	0.3201	0.3216	0.3244	BLNK	-0.0428	3.08864		0.3366	1.000	0.995	
Nickel	0.3567	0.2891	0.2670	0.2367	0.2298	0.2304	BLNK	-0.1123	4.34472		0.2683	1.000	0.995	
Potassium		1.1880	0.7012	0.2756	0.2243	0.2171	BLNK	-192.60	4.62817		0.5212	1.000	0.995	
Selenium		0.0391	0.0191	0.0114	0.0110	0.0108	BLNK	-0.8946	92.7913		0.0183	1.000	0.995	
Silver	0.9444	0.9100	0.8397	0.8724	0.8326	0.8222	BLNK	-0.0246	1.21319		0.8702	1.000	0.995	
Sodium		0.2327	0.2182	0.2177	0.2152	0.2070	BLNK	-5.5863	4.79423		0.2181	1.000	0.995	
Thallium		0.2497	0.2444	0.2374	0.2599	0.2665	BLNK	-0.0929	3.77368		0.2516	1.000	0.995	
Vanadium		1.5237	1.2798	1.1574	1.1536	1.2044	BLNK	-0.1654	0.83825		1.2638	1.000	0.995	
Zinc		0.5554	0.3270	0.1947	0.1741	0.1768	BLNK	-0.8581	5.70294		0.2856	1.000	0.995	

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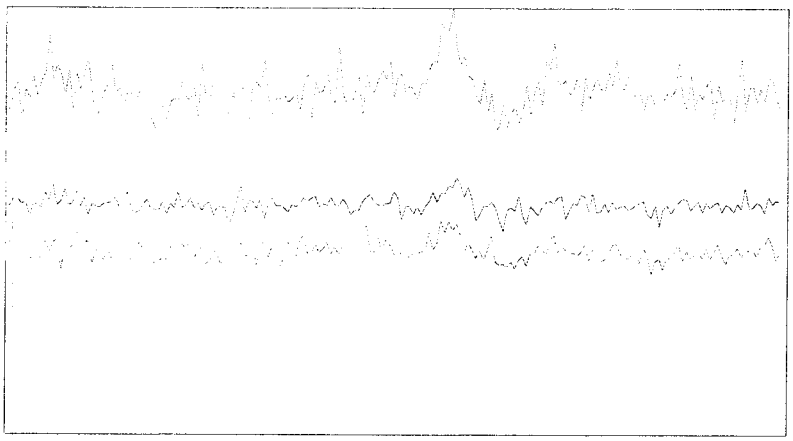
BLNK=Y=aX+[blank]

Instrument amount = a0 + response * a1 + response^2 * a2

Tune Report

Tune File : Autotune.u



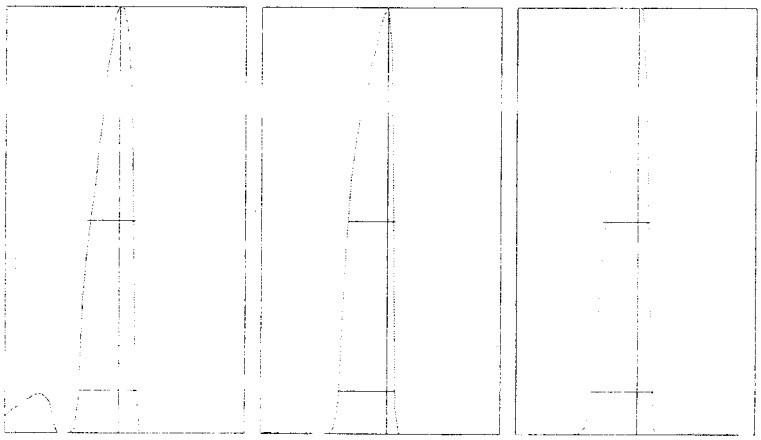
m/z:	7	89	205
Range:	20,000	50,000	20,000
Count:	10,864	21,446	15,274
Mean:	10736.9	21432.9	16144.9
RSD%:	3.43	4.93	5.99
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.39%
Doubly Charged:	70/140	0.73%

Background:

m/z:	7	89	205
Cps:	16.0	9.2	9.9



m/z:	7	89	205
Height:	10,746	21,689	16,282
Axis:	6.95	89.10	205.05
W-50%:	0.60	0.60	0.60
W-10%:	0.7500	0.700	0.800

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1230 W	Extract 1:	-161.2 V	AMU Gain:	129
RF Matching:	1.62 V	Extract 2:	-76 V	AMU Offset:	126
Smpl Depth:	7 mm	Einzel 1,3:	-96 V	Axis Gain:	0.9998
Torch-H:	0 mm	Einzel 2:	16 V	Axis Offset:	-0.09
Torch-V:	0.4 mm	Omega Bias:	-36 V	QP Bias:	1.5 V
Carrier Gas:	1.21 L/min	Omega (+):	1 V		
Makeup Gas:	0 L/min	Omega (-):	-6.7 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	7.1 V	Discriminator:	8.7 mV
PeriPump1:	0.1 rps	Plate Bias:	-12.5 V	Analog HV:	1750 V
PeriPump2:	--- rps			Pulse HV:	1220 V
S/C Temp:	2 degC				

Generated : Mar 27, 2006 12:39:12
Printed : Mar 27, 2006 12:39:19

P/A Factor Tuning Report

Acquired:Mar 27 2006 01:03 pm

Mass[amu]	Element	P/A Factor
6	Li	0.074291
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.097398
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.103241
45	Sc	0.099390
51	V	0.102471
52	Cr	0.104110
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.106727
57	Fe	0.109547
59	Co	0.108939
60	Ni	Sensitivity too low
63	Cu	0.110453
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.110182
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.115199
111	Cd	Sensitivity too low
114	Cd	0.113514
115	In	0.117527
118	(In)	0.120724
121	Sb	0.115246
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.121623
166	Er	Sensitivity too low

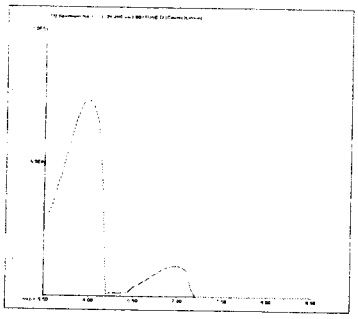
```
    205        Tl    0.125342
    206      (Pb)    0.121206
    207      (Pb)  Sensitivity too low
    208        Pb    0.123793
    209        Bi    0.124389

===Detector Parameters===
  Discriminator: 8.7 mV
      Analog HV: 1750 V
       Pulse HV: 1220 V
```

6020 QC Tune Report

Data File:	C:\ICPCHEM\1\DATA\06C2713a.B\001TUNE.D
Date Acquired:	Mar 27 2006 01:13 pm
Acq. Method:	TN6020.M
Operator:	
Sample Name:	TUN,S2898
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

Element	Actual	Required	Flag
7 Li	3.57	5.00	
59 Co	1.44	5.00	
115 In	2.02	5.00	
205 Tl	0.62	5.00	



7 Li

Mass Calib.

Actual: 7.00

Required: 6.90 - 7.10

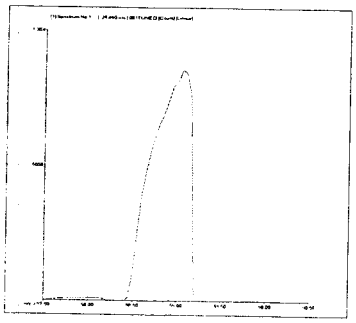
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



59 Co

Mass Calib.

Actual: 59.05

Required: 58.90 - 59.10

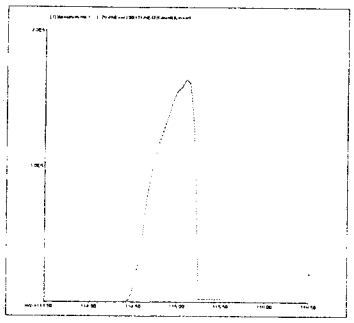
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



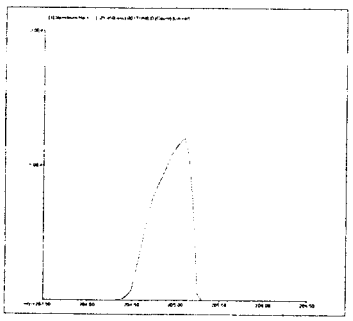
115 In

Mass Calib.

Actual: 115.10
Required: 114.90 - 115.10
Flag:

Peak Width

Actual: 0.60
Required: 0.90
Flag:



205 Tl

Mass Calib.

Actual: 205.10
Required: 204.90 - 205.10
Flag:

Peak Width

Actual: 0.65
Required: 0.90
Flag:

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2713a.B\002BLNK.D\002BLNK.D#
Date Acquired:	Mar 27 2006 01:19 pm
Acq. Method:	60200111.M
Operator:	
Sample Name:	RINSE
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update:	Mar 25 2006 05:54 pm
Sample Type:	6-Blank
Dilution Factor:	1.00

QC Elements

Element	Corr. Conc.	RSD(%)	Raw Conc.	High Limit	Flag
9 Be	0.01024 ppb	14.57	0.01024	1.00	
23 Na	-2.764 ppb	4.13	-2.764	1.00	
26 Mg	-0.3513 ppb	11.08	-0.3513	1.00	
27 Al	-2.317 ppb	0.49	-2.317	1.00	
39 K	40.57 ppb	5.57	40.57	1.00	
44 Ca	30.77 ppb	3.79	30.77	1.00	
51 V	-0.2349 ppb	10.61	-0.2349	1.00	
52 Cr	-0.4483 ppb	3.23	-0.4483	1.00	
55 Mn	0.007476 ppb	10.84	0.007476	1.00	
57 Fe	1.81 ppb	63.37	1.81	1.00	
59 Co	0.0009447 ppb	255.00	0.0009447	1.00	
60 Ni	0.04974 ppb	12.46	0.04974	1.00	
65 Cu	0.05061 ppb	13.72	0.05061	1.00	
66 Zn	0.2191 ppb	17.44	0.2191	1.00	
75 As	0.03591 ppb	108.24	0.03591	1.00	
82 Se	-0.06378 ppb	168.08	-0.06378	1.00	
95 Mo	-0.002281 ppb	124.77	-0.002281	1.00	
109 Ag	-0.2031 ppb	1.79	-0.2031	1.00	
111 Cd	-0.001758 ppb	978.95	-0.001758	1.00	
121 Sb	0.2536 ppb	5.62	0.2536	1.00	
137 Ba	-0.01956 ppb	14.63	-0.01956	1.00	
205 Tl	0.04671 ppb	38.79	0.04671	1.00	
208 Pb	-0.003321 ppb	64.80	-0.003321	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	726813.06	5.15	---	#VALUE!	80 - 120	
45 Sc	801941.06	5.74	---	#VALUE!	80 - 120	
72 Ge	176767.11	4.28	---	#VALUE!	80 - 120	
115 In	1444972.90	7.34	---	#VALUE!	80 - 120	
209 Bi	1096697.10	9.57	---	#VALUE!	80 - 120	

ISTD Ref File : ---

3 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes:	Fail
ISTD:	Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2713a.B\003CAL
Date Acquired:	Mar 27 2006 01:24 pm
Operator:	
Sample Name:	std-blk
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 25 2006 05:54 pm
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean	SD	RSD(%)
6	Li	716332.00 A	11880.00	1.66
9	Be	34.44 P	16.44	47.73
23	Na	18333.33 P	119.30	0.65
26	Mg	294.44 P	45.01	15.29
27	Al	2278.89 P	85.27	3.74
39	K	654778.88 P	11610.00	1.77
44	Ca	7765.56 P	96.94	1.25
45	Sc	787158.13 A	24490.00	3.11
51	V	695.82 P	227.60	32.71
52	Cr	1672.22 P	25.46	1.52
55	Mn	613.33 P	49.78	8.12
57	Fe	3873.33 P	249.00	6.43
59	Co	125.56 P	7.70	6.13
60	Ni	91.11 P	10.72	11.77
65	Cu	134.44 P	13.47	10.02
66	Zn	530.00 P	15.28	2.88
72	Ge	176221.80 P	5926.00	3.36
75	As	162.06 P	64.02	39.50
82	Se	34.00 P	18.12	53.29
95	Mo	48.89 P	3.85	7.87
109	Ag	72.22 P	37.17	51.47
111	Cd	231.92 P	29.16	12.57
115	In	1417499.00 A	43240.00	3.05
121	Sb	1788.89 P	72.60	4.06
137	Ba	45.56 P	6.94	15.23
205	Tl	505.56 P	82.21	16.26
208	Pb	350.00 P	26.67	7.62
209	Bi	1023247.00 A	70180.00	6.86

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2713a.B\004CALI.D\004CALI.D#
Date Acquired: Mar 27 2006 01:30 pm
Operator:
Sample Name: CS1,S2889
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 27 2006 01:26 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	704934.63	A	56610.00	8.03
9 Be	233.33	P	37.86	16.23
23 Na	99390.00	P	2693.00	2.71
26 Mg	8850.00	P	29.63	0.33
27 Al	2832.22	P	92.64	3.27
39 K	832084.69	A	11240.00	1.35
44 Ca	10045.94	P	283.00	2.82
45 Sc	758753.81	A	56740.00	7.48
51 V	1746.21	P	130.90	7.50
52 Cr	2621.11	P	131.70	5.02
55 Mn	1810.00	P	3.33	0.18
57 Fe	6265.56	P	258.90	4.13
59 Co	1124.44	P	26.74	2.38
60 Ni	307.78	P	11.71	3.80
65 Cu	417.74	P	33.39	7.99
66 Zn	714.40	P	68.66	9.61
72 Ge	172858.00	P	11490.00	6.65
75 As	259.41	P	38.99	15.03
82 Se	50.67	P	13.78	27.20
95 Mo	387.78	P	30.97	7.99
109 Ag	813.33	P	37.12	4.56
111 Cd	363.95	P	55.33	15.20
115 In	1379159.00	A	100600.00	7.29
121 Sb	2287.78	P	103.40	4.52
137 Ba	325.56	P	67.03	20.59
205 Tl	1532.22	P	59.75	3.90
208 Pb	2262.22	P	70.26	3.11
209 Bi	1041850.00	A	81740.00	7.85

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	704934.56	8.03	716332.00	98.4	80 - 120	

45	Sc	758753.75	7.48	787158.13	96.4	80 -	120
72	Ge	172858.00	6.65	176221.77	98.1	80 -	120
115	In	1379159.40	7.29	1417498.60	97.3	80 -	120
209	Bi	1041849.90	7.85	1023246.90	101.8	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2713a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2713a.B\005CALI.D\005CALI.D#
Date Acquired:	Mar 27 2006 01:35 pm
Operator:	
Sample Name:	CS2,S2890
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 27 2006 01:32 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	733928.38	A	16030.00	2.18
9 Be	438.89	P	36.72	8.37
23 Na	188454.41	P	6244.00	3.31
26 Mg	17220.00	P	395.50	2.30
27 Al	3902.22	P	252.90	6.48
39 K	961952.00	A	22300.00	2.32
44 Ca	12786.03	P	436.70	3.42
45 Sc	809888.00	A	7499.00	0.93
51 V	2726.68	P	206.80	7.58
52 Cr	3564.44	P	126.00	3.53
55 Mn	3135.55	P	50.04	1.60
57 Fe	8816.67	P	162.90	1.85
59 Co	2101.11	P	131.70	6.27
60 Ni	517.78	P	18.95	3.66
65 Cu	697.70	P	28.35	4.06
66 Zn	994.36	P	36.57	3.68
72 Ge	179122.41	P	2819.00	1.57
75 As	540.63	P	79.46	14.70
82 Se	70.00	P	9.45	13.50
95 Mo	651.11	P	56.99	8.75
109 Ag	1628.89	P	104.50	6.42
111 Cd	600.25	P	46.70	7.78
115 In	1465831.00	A	59030.00	4.03
121 Sb	2863.33	P	107.90	3.77
137 Ba	591.11	P	42.21	7.14
205 Tl	2773.33	P	317.60	11.45
208 Pb	3926.67	P	28.48	0.73
209 Bi	1109387.00	A	22750.00	2.05

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	733928.44	2.18	716332.00	102.5	80 - 120	

45	Sc	809888.00	0.93	787158.13	102.9	80 -	120
72	Ge	179122.44	1.57	176221.77	101.6	80 -	120
115	In	1465830.90	4.03	1417498.60	103.4	80 -	120
209	Bi	1109386.90	2.05	1023246.90	108.4	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2713a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2713a.B\006CALI.D\006CALI.D#
Date Acquired:	Mar 27 2006 01:41 pm
Operator:	
Sample Name:	CS3,S2891
Misc Info:	
Vial Number:	1104
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 27 2006 01:37 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	731317.31	A	6216.00	0.85
9 Be	793.33	P	70.95	8.94
23 Na	356257.81	P	10340.00	2.90
26 Mg	34865.56	P	956.80	2.74
27 Al	11794.14	M	11600.00	98.35
39 K	1144451.00	A	17970.00	1.57
44 Ca	17215.25	P	417.80	2.43
45 Sc	816513.19	A	23250.00	2.85
51 V	4626.87	P	517.40	11.18
52 Cr	5237.78	P	95.24	1.82
55 Mn	5578.89	P	109.80	1.97
57 Fe	13928.89	P	192.90	1.38
59 Co	4148.89	P	134.30	3.24
60 Ni	965.56	P	55.01	5.70
65 Cu	1132.07	P	71.28	6.30
66 Zn	1183.16	P	58.41	4.94
72 Ge	180892.91	P	1656.00	0.92
75 As	741.09	P	65.72	8.87
82 Se	68.89	P	9.20	13.35
95 Mo	1278.89	P	67.36	5.27
109 Ag	3036.67	P	220.00	7.24
111 Cd	961.71	P	112.10	11.66
115 In	1453418.00	A	2338.00	0.16
121 Sb	4340.00	P	208.30	4.80
137 Ba	1075.56	P	29.88	2.78
205 Tl	5285.56	P	269.60	5.10
208 Pb	7666.67	P	60.83	0.79
209 Bi	1082037.00	A	21380.00	1.98

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	731317.31	0.85	716332.00	102.1	80 - 120	

45	Sc	816513.25	2.85	787158.13	103.7	80 -	120
72	Ge	180892.89	0.92	176221.77	102.7	80 -	120
115	In	1453417.50	0.16	1417498.60	102.5	80 -	120
209	Bi	1082036.60	1.98	1023246.90	105.7	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2713a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**

ISTD: **Pass**

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2713a.B\007CALI.D\007CALI.D#
Date Acquired:	Mar 27 2006 01:47 pm
Operator:	
Sample Name:	CS4,S2892
Misc Info:	
Vial Number:	1105
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 27 2006 01:43 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	733193.00	A	17350.00	2.37
9	Be	8131.11	P	58.53	0.72
23	Na	3601714.00	A	42550.00	1.18
26	Mg	342357.81	P	4384.00	1.28
27	Al	30068.89	P	768.90	2.56
39	K	4560674.00	A	108500.00	2.38
44	Ca	113357.70	P	1309.00	1.15
45	Sc	827529.31	A	18850.00	2.28
51	V	42523.64	P	657.10	1.55
52	Cr	37986.67	P	262.10	0.69
55	Mn	51254.44	P	1168.00	2.28
57	Fe	101726.70	P	626.10	0.62
59	Co	38986.67	P	955.70	2.45
60	Ni	8697.78	P	250.60	2.88
65	Cu	10152.97	P	100.00	0.98
66	Zn	7152.73	P	240.10	3.36
72	Ge	183707.09	P	727.00	0.40
75	As	6213.16	P	206.00	3.32
82	Se	417.78	P	32.54	7.79
95	Mo	11762.22	P	231.20	1.97
109	Ag	32051.11	P	1063.00	3.32
111	Cd	7194.65	P	47.43	0.66
115	In	1465817.00	A	51440.00	3.51
121	Sb	29541.11	P	723.20	2.45
137	Ba	10018.89	P	136.10	1.36
205	Tl	50787.77	P	1757.00	3.46
208	Pb	74567.78	P	1564.00	2.10
209	Bi	1070368.00	A	16270.00	1.52

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6	Li	733193.06	2.37	716332.00	102.4	80 -	120	

45	Sc	827529.31	2.28	787158.13	105.1	80 -	120
72	Ge	183707.11	0.40	176221.77	104.2	80 -	120
115	In	1465817.10	3.51	1417498.60	103.4	80 -	120
209	Bi	1070368.10	1.52	1023246.90	104.6	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2713a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**

ISTD: **Pass**

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2713a.B\008CALI.D\008CALI.D#
Date Acquired:	Mar 27 2006 01:52 pm
Operator:	
Sample Name:	CS5,S2886
Misc Info:	
Vial Number:	1106
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 27 2006 01:48 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	709476.38	A	5862.00	0.83
9	Be	81057.78	P	756.00	0.93
23	Na	34680580.00	A	536000.00	1.55
26	Mg	3453170.00	A	49150.00	1.42
27	Al	272468.91	P	1508.00	0.55
39	K	36142992.00	A	316100.00	0.87
44	Ca	1138618.00	A	43480.00	3.82
45	Sc	806335.88	A	29470.00	3.65
51	V	424990.41	P	4336.00	1.02
52	Cr	367502.19	P	9409.00	2.56
55	Mn	496933.31	P	11320.00	2.28
57	Fe	1027157.00	A	5201.00	0.51
59	Co	386634.41	P	7315.00	1.89
60	Ni	84694.44	P	1465.00	1.73
65	Cu	98321.40	P	1557.00	1.58
66	Zn	64173.85	P	1885.00	2.94
72	Ge	184280.00	P	4299.00	2.33
75	As	61698.92	P	31.22	0.05
82	Se	4036.00	P	37.75	0.94
95	Mo	118472.20	P	839.50	0.71
109	Ag	306822.19	P	6965.00	2.27
111	Cd	68603.17	P	1440.00	2.10
115	In	1435575.00	A	50270.00	3.50
121	Sb	285007.81	P	6003.00	2.11
137	Ba	99207.78	P	2019.00	2.04
205	Tl	515978.91	P	12820.00	2.48
208	Pb	772135.50	P	12430.00	1.61
209	Bi	993762.50	A	35420.00	3.56

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6	Li	709476.44	0.83	716332.00	99.0	80 -	120	

45	Sc	806335.88	3.65	787158.13	102.4	80 -	120
72	Ge	184280.00	2.33	176221.77	104.6	80 -	120
115	In	1435574.90	3.50	1417498.60	101.3	80 -	120
209	Bi	993762.44	3.56	1023246.90	97.1	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2713a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**

ISTD: **Pass**

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2713a.B\009CALI.D\009CALI.D#
Date Acquired:	Mar 27 2006 01:58 pm
Operator:	
Sample Name:	CS6,S2887
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 27 2006 01:54 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	703324.31	A	26050.00	3.70
9	Be	163915.59	P	6659.00	4.06
23	Na	69168256.00	A	762400.00	1.10
26	Mg	6880571.00	A	106600.00	1.55
27	Al	558100.00	P	6843.00	1.23
39	K	72531760.00	A	1199000.00	1.65
44	Ca	2300662.00	A	50680.00	2.20
45	Sc	835405.13	A	7289.00	0.87
51	V	896447.63	A	11090.00	1.24
52	Cr	751328.50	A	11600.00	1.54
55	Mn	1015270.00	A	22420.00	2.21
57	Fe	2068824.00	A	22300.00	1.08
59	Co	821668.38	A	24350.00	2.96
60	Ni	171516.70	P	3178.00	1.85
65	Cu	202301.70	P	3493.00	1.73
66	Zn	131584.50	P	1987.00	1.51
72	Ge	186083.59	P	759.00	0.41
75	As	128740.50	P	1020.00	0.79
82	Se	8043.33	P	107.40	1.34
95	Mo	241481.09	P	1065.00	0.44
109	Ag	612003.31	P	4645.00	0.76
111	Cd	137975.00	P	552.50	0.40
115	In	1411162.00	A	44580.00	3.16
121	Sb	561410.00	P	3753.00	0.67
137	Ba	201663.30	P	2347.00	1.16
205	Tl	1065979.00	A	30970.00	2.91
208	Pb	1460511.00	M	59690.00	4.09
209	Bi	1001542.00	A	40740.00	4.07

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	703324.38	3.70	716332.00	98.2	80 - 120	

45	Sc	835405.13	0.87	787158.13	106.1	80 -	120
72	Ge	186083.56	0.41	176221.77	105.6	80 -	120
115	In	1411161.90	3.16	1417498.60	99.6	80 -	120
209	Bi	1001541.90	4.07	1023246.90	97.9	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2713a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**
ISTD: **Pass**

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05
Seqnum : 56124633010 File : c2713010
Cal : 56124633001 Caldate: 27-MAR-2006
Standards: S2895, 05WS0207

IDF : 1.0
Time : 27-MAR-2006 14:03

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	0.3431	0.1700	100.0	101.2	ug/L	1	10	
Antimony	0.1629	0.1001	100.0	100.4	ug/L	0	10	
Arsenic	0.2032	0.1694	100.0	98.45	ug/L	-2	10	
Barium	0.0382	0.0348	100.0	98.08	ug/L	-2	10	
Beryllium	0.0586	0.0572	100.0	98.51	ug/L	-1	10	
Cadmium	0.2647	0.1871	100.0	100.7	ug/L	1	10	
Calcium	0.0094	0.0068	10000	9862	ug/L	-1	10	
Chromium	1.2958	1.0111	100.0	100.2	ug/L	0	10	
Cobalt	1.1398	1.0580	100.0	96.79	ug/L	-3	10	
Copper	0.3035	0.2781	100.0	102.6	ug/L	3	10	
Iron	0.0342	0.0279	10000	10030	ug/L	0	10	
Lead	0.3744	0.3823	100.0	103.4	ug/L	3	10	
Magnesium	0.0211	0.0216	10000	10410	ug/L	4	10	
Manganese	1.5836	1.3059	100.0	95.90	ug/L	-4	10	
Molybdenum	0.3366	0.3210	100.0	99.10	ug/L	-1	10	
Nickel	0.2683	0.2308	100.0	100.2	ug/L	0	10	
Potassium	0.5212	0.2259	10000	10260	ug/L	3	10	
Selenium	0.0183	0.0108	100.0	99.15	ug/L	-1	10	
Silver	0.8702	0.8354	100.0	101.3	ug/L	1	10	
Sodium	0.2181	0.2145	10000	10280	ug/L	3	10	
Thallium	0.2516	0.2596	100.0	97.88	ug/L	-2	10	
Vanadium	1.2638	1.1567	100.0	96.80	ug/L	-3	10	
Zinc	0.2856	0.1825	100.0	103.2	ug/L	3	10	

ISTD (ICALBLK c2713003)	ICALBLK Abund	Abund	%Drift
Lithium	716332	742404	3.64
Scandium	787158	846779	7.57
Germanium	176222	191605	8.73
Indium	1417499	1480058	4.41
Bismuth	1023247	1033289	0.98

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56124633022 File : c2713022
Cal : 56124633001 Caldate: 27-MAR-2006
Standards: S2897, 05WS0207

IDF : 1.0
Time : 27-MAR-2006 15:13

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.3431	0.1561	150.0	139.7	ug/L	-7	10	
Antimony	0.1629	0.0951	150.0	143.3	ug/L	-4	10	
Arsenic	0.2032	0.1647	150.0	143.7	ug/L	-4	10	
Barium	0.0382	0.0338	150.0	142.8	ug/L	-5	10	
Beryllium	0.0586	0.0554	150.0	143.3	ug/L	-4	10	
Cadmium	0.2647	0.1769	150.0	143.0	ug/L	-5	10	
Calcium	0.0094	0.0067	15000	14470	ug/L	-4	10	
Chromium	1.2958	0.9201	150.0	137.0	ug/L	-9	10	
Cobalt	1.1398	1.0403	150.0	142.8	ug/L	-5	10	
Copper	0.3035	0.2623	150.0	145.3	ug/L	-3	10	
Iron	0.0342	0.0275	15000	14820	ug/L	-1	10	
Lead	0.3744	0.3591	150.0	145.8	ug/L	-3	10	
Magnesium	0.0211	0.0194	15000	13990	ug/L	-7	10	
Manganese	1.5836	1.3222	150.0	145.7	ug/L	-3	10	
Molybdenum	0.3366	0.3157	150.0	146.2	ug/L	-3	10	
Nickel	0.2683	0.2225	150.0	144.9	ug/L	-3	10	
Potassium	0.5212	0.2138	15000	14650	ug/L	-2	10	
Selenium	0.0183	0.0107	150.0	148.6	ug/L	-1	10	
Silver	0.8702	0.7962	150.0	144.9	ug/L	-3	10	
Sodium	0.2181	0.1957	15000	14070	ug/L	-6	10	
Thallium	0.2516	0.2590	150.0	146.5	ug/L	-2	10	
Vanadium	1.2638	1.0812	150.0	135.8	ug/L	-9	10	
Zinc	0.2856	0.1735	150.0	147.6	ug/L	-2	10	

ISTD (ICALBLK c2713003)	ICALBLK Abund	Abund	%Drift
Lithium	716332	718904	0.36
Scandium	787158	872816	10.88
Germanium	176222	196611	11.57
Indium	1417499	1523735	7.49
Bismuth	1023247	1057468	3.34

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56124633034 File : c2713034
Cal : 56124633001 Caldate: 27-MAR-2006
Standards: S2897, 05WS0207

IDF : 1.0
Time : 27-MAR-2006 16:19

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.3431	0.1653	150.0	148.0	ug/L	-1	10	
Antimony	0.1629	0.0966	150.0	145.6	ug/L	-3	10	
Arsenic	0.2032	0.1631	150.0	142.3	ug/L	-5	10	
Barium	0.0382	0.0336	150.0	141.9	ug/L	-5	10	
Beryllium	0.0586	0.0552	150.0	142.6	ug/L	-5	10	
Cadmium	0.2647	0.1737	150.0	140.4	ug/L	-6	10	
Calcium	0.0094	0.0069	15000	14860	ug/L	-1	10	
Chromium	1.2958	0.9352	150.0	139.2	ug/L	-7	10	
Cobalt	1.1398	1.0199	150.0	140.0	ug/L	-7	10	
Copper	0.3035	0.2592	150.0	143.5	ug/L	-4	10	
Iron	0.0342	0.0270	15000	14580	ug/L	-3	10	
Lead	0.3744	0.3606	150.0	146.4	ug/L	-2	10	
Magnesium	0.0211	0.0201	15000	14540	ug/L	-3	10	
Manganese	1.5836	1.3268	150.0	146.2	ug/L	-3	10	
Molybdenum	0.3366	0.3168	150.0	146.7	ug/L	-2	10	
Nickel	0.2683	0.2224	150.0	144.8	ug/L	-3	10	
Potassium	0.5212	0.2272	15000	15580	ug/L	4	10	
Selenium	0.0183	0.0106	150.0	146.5	ug/L	-2	10	
Silver	0.8702	0.7854	150.0	142.9	ug/L	-5	10	
Sodium	0.2181	0.1989	15000	14300	ug/L	-5	10	
Thallium	0.2516	0.2586	150.0	146.3	ug/L	-2	10	
Vanadium	1.2638	1.0988	150.0	138.0	ug/L	-8	10	
Zinc	0.2856	0.1695	150.0	144.2	ug/L	-4	10	

ISTD (ICALBLK c2713003)	ICALBLK Abund	Abund	%Drift
Lithium	716332	672676	-6.09
Scandium	787158	827020	5.06
Germanium	176222	193966	10.07
Indium	1417499	1474701	4.04
Bismuth	1023247	1012563	-1.04

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56124633011 File : c2713011 IDF : 1.0
Cal : 56124633001 Caldate: 27-MAR-2006 Time : 27-MAR-2006 14:12

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.2027]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.06365]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2713003)	ICALBLK Abund	Abund	%Drift
Lithium	716332	757151	5.70
Scandium	787158	865287	9.93
Germanium	176222	193866	10.01
Indium	1417499	1527109	7.73
Bismuth	1023247	1121515	9.60

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56124633035
Cal : 56124633001

File : c2713035
Caldate: 27-MAR-2006

IDF : 1.0
Time : 27-MAR-2006 16:25

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	[6.616]	50.00	2.123	ug/L	!ib
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	[0.06245]	0.2500	0.02391	ug/L	!ib
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.02467]	0.2500	0.008548	ug/L	!ib
Copper	[0.05149]	0.5000	0.04426	ug/L	!ib
Iron	[14.90]	50.00	6.980	ug/L	!ib
Lead	[0.02570]	0.2500	0.005283	ug/L	!ib
Magnesium	[8.153]	50.00	3.054	ug/L	!ib
Manganese	[0.02314]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.01818]	0.2500	0.01266	ug/L	!ib
Sodium	[16.71]	50.00	9.919	ug/L	!ib
Thallium	[0.1464]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2713003)	ICALBLK Abund	Abund	%Drift
Lithium	716332	722485	0.86
Scandium	787158	876834	11.39
Germanium	176222	195385	10.87
Indium	1417499	1601007	12.95
Bismuth	1023247	1085506	6.08

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56124633012 File : c2713012 Time : 27-MAR-2006 14:17
Cal : 56124633001 Caldate: 27-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.760	0.2500	ug/L	
Arsenic	0.5961	0.5000	ug/L	
Barium	1.041	0.2500	ug/L	
Beryllium	[0.001493]	0.2500	ug/L	
Cadmium	[0.06986]	0.2500	ug/L	
Chromium	1.355	0.5000	ug/L	
Cobalt	2.676	0.2500	ug/L	
Copper	1.549	0.5000	ug/L	
Lead	1.183	0.2500	ug/L	
Manganese	0.9292	0.2500	ug/L	
Nickel	1.288	0.2500	ug/L	
Selenium	[0.3329]	0.5000	ug/L	
Silver	[0.1640]	0.2500	ug/L	
Thallium	[0.05006]	0.5000	ug/L	
Vanadium	[0.1606]	1.000	ug/L	
Zinc	2.255	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	94510	ug/L	95
Calcium	300000	293500	ug/L	98
Iron	250000	236900	ug/L	95
Magnesium	100000	97170	ug/L	97
Molybdenum	2000	2181	ug/L	109
Potassium	100000	100900	ug/L	101
Sodium	250000	237600	ug/L	95

ISTD (ICALBLK c2713003)	ICALBLK Abund	Abund	%Drift
Lithium	716332	558089	-22.09
Scandium	787158	695149	-11.69
Germanium	176222	157845	-10.43
Indium	1417499	1161806	-18.04
Bismuth	1023247	783973	-23.38

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05
Seqnum : 56124633013 File : c2713013
Cal : 56124633001 Caldate: 27-MAR-2006
Standards: S2894, 05WS0207

IDF : 1.0
Time : 27-MAR-2006 14:23

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	95140	ug/L	-5		
Arsenic	100.0	109.8	ug/L	10	20	
Cadmium	100.0	97.63	ug/L	-2	20	
Calcium	300000	294400	ug/L	-2		
Chromium	200.0	188.5	ug/L	-6	20	
Cobalt	200.0	187.3	ug/L	-6	20	
Copper	200.0	184.1	ug/L	-8	20	
Iron	250000	236500	ug/L	-5		
Magnesium	100000	97010	ug/L	-3		
Manganese	200.0	194.2	ug/L	-3	20	
Molybdenum	2000	2211	ug/L	11		
Nickel	200.0	190.9	ug/L	-5	20	
Potassium	100000	101700	ug/L	2		
Selenium	100.0	106.3	ug/L	6	20	
Silver	50.00	46.73	ug/L	-7	20	
Sodium	250000	236600	ug/L	-5		
Vanadium	200.0	190.9	ug/L	-5	20	
Zinc	100.0	102.1	ug/L	2	20	

ISTD (ICALBLK c2713003)	ICALBLK Abund	Abund	%Drift
Scandium	787158	600375	-23.73
Germanium	176222	138580	-21.36

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56124633031 File : c2713031 Time : 27-MAR-2006 16:02
Cal : 56124633001 Caldate: 27-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	1.936	0.2500	ug/L	
Arsenic	0.6772	0.5000	ug/L	
Barium	0.9088	0.2500	ug/L	
Beryllium	[0.0007928]	0.2500	ug/L	
Cadmium	[0.02754]	0.2500	ug/L	
Chromium	3.056	0.5000	ug/L	
Cobalt	2.533	0.2500	ug/L	
Copper	1.551	0.5000	ug/L	
Lead	1.163	0.2500	ug/L	
Manganese	0.9467	0.2500	ug/L	
Nickel	1.269	0.2500	ug/L	
Selenium	[0.1242]	0.5000	ug/L	
Silver	[0.1411]	0.2500	ug/L	
Thallium	[0.1914]	0.5000	ug/L	
Vanadium	[0.6864]	1.000	ug/L	
Zinc	2.283	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	87100	ug/L	87
Calcium	300000	272300	ug/L	91
Iron	250000	227400	ug/L	91
Magnesium	100000	88090	ug/L	88
Molybdenum	2000	2033	ug/L	102
Potassium	100000	93220	ug/L	93
Sodium	250000	219200	ug/L	88

ISTD (ICALBLK c2713003)	ICALBLK Abund	Abund	%Drift
Lithium	716332	638884	-10.81
Scandium	787158	859730	9.22
Germanium	176222	191035	8.41
Indium	1417499	1418457	0.07
Bismuth	1023247	929191	-9.19

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05
Seqnum : 56124633032 File : c2713032
Cal : 56124633001 Caldate: 27-MAR-2006
Standards: S2894, 05WS0207

IDF : 1.0
Time : 27-MAR-2006 16:08

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	90020	ug/L	-10		
Arsenic	100.0	105.4	ug/L	5	20	
Cadmium	100.0	91.03	ug/L	-9	20	
Calcium	300000	289700	ug/L	-3		
Chromium	200.0	179.9	ug/L	-10	20	
Cobalt	200.0	188.3	ug/L	-6	20	
Copper	200.0	180.2	ug/L	-10	20	
Iron	250000	231300	ug/L	-7		
Magnesium	100000	92900	ug/L	-7		
Manganese	200.0	195.1	ug/L	-2	20	
Molybdenum	2000	2136	ug/L	7		
Nickel	200.0	184.4	ug/L	-8	20	
Potassium	100000	97610	ug/L	-2		
Selenium	100.0	104.0	ug/L	4	20	
Silver	50.00	46.10	ug/L	-8	20	
Sodium	250000	226300	ug/L	-9		
Vanadium	200.0	186.4	ug/L	-7	20	
Zinc	100.0	99.66	ug/L	0	20	

ISTD (ICALBLK c2713003)	ICALBLK Abund	Abund	%Drift
Scandium	787158	752408	-4.41
Germanium	176222	172276	-2.24

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56124633 Instrument: MET05 Agilent ICP-MS Begun: 27-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	c2713001	TUN				27-MAR-2006 13:13	1.0	1.0				1	
003	c2713003	ICALBLK	std-blk			27-MAR-2006 13:24	1.0	1.0				2	
004	c2713004	ICAL	CS1			27-MAR-2006 13:30	1.0	1.0				3	
005	c2713005	ICAL	CS2			27-MAR-2006 13:35	1.0	1.0				4	
006	c2713006	ICAL	CS3			27-MAR-2006 13:41	1.0	1.0				5	
007	c2713007	ICAL	CS4			27-MAR-2006 13:47	1.0	1.0				6	
008	c2713008	ICAL	CS5			27-MAR-2006 13:52	1.0	1.0				7	
009	c2713009	ICAL	CS6			27-MAR-2006 13:58	1.0	1.0				8	
010	c2713010	ICV				27-MAR-2006 14:03	1.0	1.0			1	9 2	
011	c2713011	ICB				27-MAR-2006 14:12	1.0	1.0			1	2	
012	c2713012	ICSA				27-MAR-2006 14:17	1.0	1.0			1	10 2	7:CA=293500
013	c2713013	ICSAB				27-MAR-2006 14:23	1.0	1.0			1	11 2	7:CA=294400
015	c2713015	BS	QC332966	111659	Water	27-MAR-2006 14:34	1.0	1.0			1	2	
016	c2713016	BSD	QC332967	111659	Water	27-MAR-2006 14:39	1.0	1.0			1	2	
017	c2713017	MSS	185408-008	111659	Water	27-MAR-2006 14:45	1.0	1.0	2		1	2	2:NA=21188.0
018	c2713018	SER	QC332972	111659	Water	27-MAR-2006 14:50	5.0	1.0		9	1	2	1:AL=1279.40
019	c2713019	MSS	185408-008	111659	Water	27-MAR-2006 14:56	40.0	1.0			1	2	
020	c2713020	SER	QC332972	111659	Water	27-MAR-2006 15:01	200.0	1.0		1	1	2	
021	c2713021	MSS	185408-010	111659	Water	27-MAR-2006 15:07	40.0	1.0			1	2	
022	c2713022	CCV				27-MAR-2006 15:13	1.0	1.0			1	12 2	
024	c2713024	CCB				27-MAR-2006 15:23	1.0	1.0			1	2	
026	c2713026	SAMPLE	185408-009	111659	Water	27-MAR-2006 15:35	40.0	1.0			1	2	
027	c2713027	SAMPLE	185408-011	111659	Water	27-MAR-2006 15:40	40.0	1.0			1	2	
028	c2713028	MSS	185408-010	111659	Water	27-MAR-2006 15:46	30.0	1.0			1	2	
029	c2713029	MS	QC332970	111659	Water	27-MAR-2006 15:51	20.0	1.0		4	1	2	
030	c2713030	MSD	QC332971	111659	Water	27-MAR-2006 15:57	20.0	1.0		3	1	2	
031	c2713031	ICSA				27-MAR-2006 16:02	1.0	1.0			1	10 2	7:CA=272300
032	c2713032	ICSAB				27-MAR-2006 16:08	1.0	1.0			1	11 2	7:CA=289700
034	c2713034	CCV				27-MAR-2006 16:19	1.0	1.0			1	12 2	
035	c2713035	CCB				27-MAR-2006 16:25	1.0	1.0			1	2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897

Analyst: [signature] Date: 3/27/06

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185408 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	HARD	ALB	ASB	ASA	BAE	BCD	CCA	CCR	CCO	CCU	FEB	PBG	MGN	HG	MO	NI	K	SE	AG	NA	TL	V	ZN
185408-008	MET04	03/14/06 12:35	1.0														+									
185408-008	MET05	03/25/06 19:07	1.0			+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+			+	+
185408-008	MET05	03/25/06 19:18	20.0												+								+			
185408-008	MET05	03/27/06 14:45	1.0																					+		
185408-008	MET05	03/27/06 14:56	40.0		+																					
185408-009	MET04	03/14/06 12:52	1.0														+									
185408-009	MET05	03/25/06 20:30	1.0			+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+		+	+	+
185408-009	MET05	03/25/06 20:35	20.0																				+			
185408-009	MET05	03/27/06 15:35	40.0		+																					
185408-010	MET05	03/25/06 20:25	1.0			+	+	+	+	+		+	+	+	+	+					+	+	+	+	+	+
185408-010	MET05	03/25/06 21:20	20.0							+					+	+										
185408-010	MET05	03/27/06 15:07	40.0																				+			
185408-010	MET05	03/27/06 15:46	30.0		+																					
185408-011	MET05	03/25/06 21:36	1.0			+	+	+	+	+		+	+	+	+	+					+	+	+	+	+	+
185408-011	MET05	03/25/06 21:42	20.0							+					+	+										
185408-011	MET05	03/27/06 15:40	40.0		+																		+			
QC331350	MET04	03/14/06 12:27	1.0														+									
QC331351	MET04	03/14/06 12:29	1.0														+									
QC331352	MET04	03/14/06 12:31	1.0														+									
QC331353	MET04	03/14/06 12:33	1.0														+									
QC331354	MET04	03/14/06 12:37	1.0														+									
QC331355	MET04	03/14/06 12:39	1.0														+									
QC331356	MET04	03/14/06 12:43	1.0														+									
QC331357	MET04	03/14/06 12:45	1.0														+									
QC332965	MET05	03/25/06 18:51	1.0		+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC332966	MET05	03/25/06 18:56	1.0			+	+	+	+	+	+	+	+	+	+		+		+	+	+	+		+	+	+
QC332966	MET05	03/27/06 14:34	1.0		+										+								+			
QC332967	MET05	03/25/06 19:02	1.0			+	+	+	+	+	+	+	+	+	+		+		+	+	+	+		+	+	+
QC332967	MET05	03/27/06 14:39	1.0		+										+								+			
QC332968	MET05	03/25/06 19:51	1.0		+	+	+	+	+	+		+	+	+		+				+		+	+	+		+	+	+
QC332968	MET05	03/25/06 20:08	20.0								+				+		+	+			+				+			

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185408 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	HARD	ALB	SB	ASA	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	MO	NI	K	SE	AG	NA	TL	V	ZN
QC332969	MET05	03/25/06 19:57	1.0		+	+	+	+	+	+		+	+	+		+				+		+	+	+		+	+	+
QC332969	MET05	03/25/06 20:13	20.0								+				+		+	+			+				+			
QC332970	MET05	03/25/06 21:09	1.0		+	+	+		+	+		+	+	+	+	+	+			+	+	+	+	+		+	+	+
QC332970	MET05	03/25/06 21:25	20.0					+			+							+										
QC332970	MET05	03/27/06 15:51	20.0																						+			
QC332971	MET05	03/25/06 21:14	1.0		+	+	+		+	+		+	+	+	+	+	+			+	+	+	+	+		+	+	+
QC332971	MET05	03/25/06 21:31	20.0					+			+							+										
QC332971	MET05	03/27/06 15:57	20.0																						+			
QC332972	MET05	03/25/06 19:13	5.0			+	+	+	+	+	+	+	+	+	+	+		+		+	+	+	+	+		+	+	+
QC332972	MET05	03/25/06 19:24	100.0														+								+			
QC332972	MET05	03/27/06 14:50	5.0																									
QC332972	MET05	03/27/06 15:01	200.0		+																							
QC332973	MET05	03/25/06 20:02	1.0			+	+	+	+	+		+	+	+		+				+		+	+	+		+	+	+
QC332973	MET05	03/25/06 20:19	20.0								+				+		+	+			+				+			

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185408 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
185408-001	MET05	03/25/06 02:52	1.0	+		+			+		+		+	+	+				+	+						+
185408-001	MET05	03/25/06 03:14	20.0							+						+	+						+			
185408-002	MET05	03/25/06 01:34	1.0	+		+			+		+		+	+	+				+	+						+
185408-002	MET05	03/25/06 02:02	20.0							+						+	+						+			
185408-003	MET05	03/25/06 02:57	1.0	+		+			+		+		+	+	+				+	+						+
185408-003	MET05	03/25/06 03:19	20.0							+						+	+						+			
185408-004	MET05	03/25/06 03:03	1.0	+		+			+		+		+		+				+	+						+
185408-004	MET05	03/25/06 03:25	20.0							+				+		+	+						+			
185408-005	MET05	03/25/06 03:08	1.0	+		+			+		+		+		+				+	+						+
185408-005	MET05	03/25/06 03:30	20.0							+				+		+	+						+			
185408-006	MET05	03/24/06 23:38	1.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
185408-006	MET05	03/25/06 00:00	20.0							+						+							+			
185408-007	MET05	03/24/06 23:43	1.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
185408-007	MET05	03/25/06 00:06	20.0							+						+							+			
185408-008	MET04	03/14/06 13:52	1.0															+								
185408-008	MET05	03/24/06 21:18	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+		+	+	+
185408-008	MET05	03/24/06 22:31	20.0																				+			
185408-009	MET04	03/14/06 14:01	1.0															+								
185408-009	MET05	03/24/06 23:49	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+		+	+	+
185408-009	MET05	03/25/06 00:11	20.0																				+			
185408-010	MET05	03/24/06 22:15	1.0	+	+	+	+	+	+	+	+	+	+	+	+		+		+	+	+	+		+	+	+
185408-010	MET05	03/24/06 23:21	20.0													+							+			
185408-011	MET05	03/24/06 23:55	1.0	+	+	+	+	+	+	+	+	+	+	+	+		+		+	+	+	+		+	+	+
185408-011	MET05	03/25/06 00:39	20.0													+							+			
QC331395	MET04	03/14/06 13:38	1.0															+								
QC331396	MET04	03/14/06 13:40	1.0															+								
QC331397	MET04	03/14/06 13:42	1.0															+								
QC331398	MET04	03/14/06 13:44	1.0															+								
QC331399	MET04	03/14/06 13:48	1.0															+								
QC331400	MET04	03/14/06 13:50	1.0															+								
QC331401	MET04	03/14/06 13:54	1.0															+								

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185408 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	ALB	SBS	ABA	BEB	CDA	CCA	CRO	CUE	FEB	PBG	MNG	HGI	NIK	SEG	ANA	TLV	ZN
QC331402	MET04	03/14/06 13:55	1.0												+					
QC331831	MET05	03/24/06 20:56	1.0	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC331832	MET05	03/24/06 21:02	1.0	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC331833	MET05	03/24/06 21:07	1.0	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC331834	MET05	03/24/06 22:20	1.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	
QC331834	MET05	03/24/06 23:27	20.0							+						+							+			+
QC331835	MET05	03/24/06 22:26	1.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	
QC331835	MET05	03/24/06 23:32	20.0							+						+							+			+
QC331836	MET05	03/24/06 21:29	1.0		+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
QC331836	MET05	03/24/06 22:42	20.0	+						+						+							+			
QC331837	MET05	03/24/06 21:35	1.0		+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
QC331837	MET05	03/24/06 22:48	20.0	+						+						+							+			
QC331838	MET05	03/24/06 21:24	5.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+		+	+	+
QC331838	MET05	03/24/06 22:37	100.0																				+			
QC331839	MET05	03/24/06 22:09	1.0		+	+	+	+	+	+	+	+	+	+	+		+		+	+	+	+		+	+	+
QC331839	MET05	03/24/06 22:53	20.0	+												+							+			
QC331981	MET05	03/25/06 01:01	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC331982	MET05	03/25/06 01:07	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC331983	MET05	03/25/06 01:12	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC331984	MET05	03/25/06 01:45	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC331984	MET05	03/25/06 02:13	20.0																							
QC331985	MET05	03/25/06 01:51	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC331985	MET05	03/25/06 02:19	20.0																							
QC331986	MET05	03/25/06 01:40	5.0	+	+	+	+	+	+		+	+	+	+	+				+	+	+	+		+	+	+
QC331986	MET05	03/25/06 02:07	100.0							+						+	+						+			
QC331987	MET05	03/25/06 01:56	1.0	+	+	+	+	+	+		+	+	+	+	+				+	+	+	+		+	+	+
QC331987	MET05	03/25/06 02:24	20.0							+						+	+						+			

Curtis & Tompkins Laboratories **Sample Preparation Summary** **17-MAR-2006 12:55**

Batch Number : 111421
Date Extracted: 17-MAR-2006
Extracted by : Kevin Gaines
Prep Method : 200.8

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S2309
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185408-001			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185408-002			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185408-003			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185408-004			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185408-005			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185558-011			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185558-012			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185558-013			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185558-014			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185558-015			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HARDNESS, MO(more)		
185558-016			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185558-017			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
185558-018			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
185558-019			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185558-020			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185558-022			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185558-026			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185558-027			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
QC331981	BLANK			Filtrate	50	mL	50	1.000000	1					ICAP		
QC331982	BS			Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331983	BSD			Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331984	MS	of 185408-002		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331985	MSD	of 185408-002		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331986	SER	of 185408-002		Filtrate	50	mL	50	1.000000	1					ICAP		
QC331987	PDS	of 185408-002		Filtrate	50	mL	50	1.000000	1					ICAP		

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Prep Chemist: [signature] 3/17/06 Reviewed By: MW Date: 3/25/6

Relinquished By: [signature] 3/17/06 Received By: MW Date: 3/25/6

Water Digestion for ICP-MS

Curtis & Tompkins, Ltd.

LIMS Batch #: 111421
Date Digested: 3/17/06
Digested by: [illegible]

Digestion Method
☑ EPA 200.8 for ICP-MS
☐ _____

BK 2288
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Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BK	50	50		
BS				
BSD				
MS -025				FIELD FILTRATE
MSD -02				
185408-02				
-01 J				
-03				
-04				
-05				
558- 11G				
-12 D				
-13 G				
-14				
-15				
-16 I				
-17				
-18				
-19				
-20				
-22				
-26				
-27				

	Reagent ID or LIMS #	Initials / Date
95 digestion temperature (90-95 degrees C)	95	[illegible] 3/17
.5 mL of spike solution was added to all spikes	52309	
concentrated HCl	24034	
concentrated HNO3	35040	
☐ filtered thru' Whatman # 541		

[illegible] 3/17/06
Extraction Chemist / Date

Continued from page ___
Continued on page ___

3/17/06
Reviewed by / Date

Curtis & Tompkins Laboratories **Sample Preparation Summary** **25-MAR-2006 09:06**

Batch Number : 111388
Date Extracted: 16-MAR-2006
Extracted by : Kevin Gaines
Prep Method : 200.8

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S2309
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185408-006			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
185408-007			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
185408-008			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
185408-009			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
185408-010			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
185408-011			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
185463-001			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
185511-001			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				15MET		
185511-002			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				15MET		
185511-009			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				15MET		
185511-010			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				15MET		
185511-011			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				15MET		
185511-012			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				HARDNESS, MO(more)		
185511-013			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				HARDNESS, MO(more)		
QC331831	BLANK			Filtrate	50	mL	50	1.000000	1				ICAP		
QC331832	BS			Filtrate	50	mL	50	1.000000	1	.5			ICAP		
QC331833	BSD			Filtrate	50	mL	50	1.000000	1	.5			ICAP		
QC331834	MS	of 185408-010		Filtrate	50	mL	50	1.000000	1	.5			ICAP		
QC331835	MSD	of 185408-010		Filtrate	50	mL	50	1.000000	1	.5			ICAP		
QC331836	MS	of 185408-008		Filtrate	50	mL	50	1.000000	1	.5			ICAP		
QC331837	MSD	of 185408-008		Filtrate	50	mL	50	1.000000	1	.5			ICAP		
QC331838	SER	of 185408-008		Filtrate	50	mL	50	1.000000	1				ICAP		
QC331839	PDS	of 185408-008		Filtrate	50	mL	50	1.000000	1				ICAP		

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Prep Chemist: MW for Leg Reviewed By: MW Date: 3/25/6

Relinquished By: MW Received By: MW Date: 3/25/6

Water Digestion for ICP-MS

Curtis & Tompkins, Ltd.

LIMS Batch #: 11138 ~~0~~
Date Digested: 3/16/04
Digested by: [illegible]

Digestion Method
☐ EPA 200.8 for ICP-MS
☐ _____

BK 2288
Page 9

Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BLK	50	50	N	
BS				
BSD				
MS - 10				
MSD - 10				FIELD FILTRANT
185408 - 10				
MS 0.5				
MSD 0.5				
408 - 0.5				
-06 A				
-07				
-11 D				
463 - 01 G				
511 - 01 E				
-02				
-09 J				
-10 G				
-11 E				
-12 N				
-13				
408 - 0.5				

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90-95 degrees C)	95	[illegible] 3/16
5 mL of spike solution was added to all spikes	52309	
concentrated HCl	24034 BAKER	
concentrated HNO3	35040	
☐ filtered thru' Whatman # 541		

[illegible] 3/16/04
Extraction Chemist / Date

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Continued from page ____
Continued on page ____

[illegible] 3/16/04

Curtis & Tompkins Laboratories **Sample Preparation Summary** **27-MAR-2006 13:32**

Batch Number : 111659
Date Extracted: 24-MAR-2006
Extracted by : Kevin Gaines
Prep Method : 200.8

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S2309
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185408-008			Treadwell & Rollo	Water	50	mL	50	1.000000	1					HARDNESS, MO(more)		
185408-009			Treadwell & Rollo	Water	50	mL	50	1.000000	1					HARDNESS, MO(more)		
185408-010			Treadwell & Rollo	Water	50	mL	50	1.000000	1					TAL/ICP		
185408-011			Treadwell & Rollo	Water	50	mL	50	1.000000	1					TAL/ICP		
QC332965	BLANK			Water	50	mL	50	1.000000	1					ICAP		
QC332966	BS			Water	50	mL	50	1.000000	1		.5			ICAP		
QC332967	BSD			Water	50	mL	50	1.000000	1		.5			ICAP		
QC332968	MS	of 185408-008		Water	50	mL	50	1.000000	1		.5			ICAP		
QC332969	MSD	of 185408-008		Water	50	mL	50	1.000000	1		.5			ICAP		
QC332970	MS	of 185408-010		Water	50	mL	50	1.000000	1		.5			ICAP		
QC332971	MSD	of 185408-010		Water	50	mL	50	1.000000	1		.5			ICAP		
QC332972	SER	of 185408-008		Water	50	mL	50	1.000000	1					ICAP		
QC332973	PDS	of 185408-008		Water	50	mL	50	1.000000	1					ICAP		

Prep Chemist: [illegible] Reviewed By: [illegible] Date: 3/27/6

Relinquished By: [illegible] Received By: [illegible] Date: 3/27/6

Water Digestion for ICP-MS

Curtis & Tompkins, Ltd.

LIMS Batch #: 111659
Date Digested: 3/24/06
Digested by: [illegible]

Digestion Method
☑ EPA 200.8 for ICP-MS
☐ _____

BK 2288
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Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BLK	50	50	N	
BS				
BSD				
MS - 08H				
MSD - 08				
185408 - 08				
MS - 10M				
MSD - 10				
185408 - 10				
- 09H				
- 11H				

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90-95 degrees C)	95	[illegible] 3/24
.5 mL of spike solution was added to all spikes	32309	
concentrated HCl	24034 BAKER	
concentrated HNO3	35040	
☐ filtered thru' Whatman # 541		

[illegible] 3/24/06
Extraction Chemist / Date

Continued from page
Continued on page

[illegible] 3/24/06
Reviewed by / Date

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

Inst : MET04
Calnum : 46105849001
Units : ug/L

Date : 14-MAR-2006 12:09
X Axis : R

Type : WATER

Reviewer: ---
Inj Vol : 2000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	111271	46105849002	Std02Rep1	14-MAR-2006 12:11	S2904 (500X)
L2	111271	46105849003	Std03Rep1	14-MAR-2006 12:13	S2904 (200X)
L3	111271	46105849004	Std04Rep1	14-MAR-2006 12:15	S2904 (50X)
L4	111271	46105849005	Std05Rep1	14-MAR-2006 12:17	S2904 (20X)
L5	111271	46105849006	Std06Rep1	14-MAR-2006 12:19	S2904 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Mercury	55370	52628	49007	45793	45205	LINR	-0.0926	2.23E-5		49601	1.000	.99	

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LINR=Linear regression
Instrument amount = a0 + response * a1 + response^2 * a2

46105849001

WinHg Database 1.3

File Utility Help

RN RN

Protocol hgppb

Dataset/Proto 031406 /hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 2.22772e-5

C -9.26034e-2

Rho .999925

Type Linear

☑ Calibrated

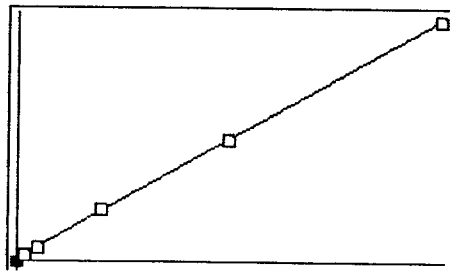
☑ Accepted

Accept

Rel. Abs.
452054

Accepted

New



Conc. 10.0

Include S1 Rep 1 ☑

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.025	-.025	3057	1	3057		
02	.20000	.154	-.046	11074	0%	11074		
03	.50000	.494	-.006	26314	0%	26314		
04	2.0000	2.09	.091	98014	0%	98014		
05	5.0000	5.01	.008	228964	0%	228964		
06	10.000	9.98	-.022	452055	0%	452054		

Ready

NUM

```
Line    Conc.  Units      SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Standard: 1 Rep: 1                Seq:  3       12:09:00 14 Mar 06   HG

Hg     .000    ppb       3057
               Bkgd 1    9992739

*** Standard: 2 Rep: 1                Seq:  4       12:11:57 14 Mar 06   HG

Hg     .200    ppb       11074
               Bkgd 1    9989491

*** Standard: 3 Rep: 1                Seq:  5       12:13:45 14 Mar 06   HG

Hg     .500    ppb       26314
               Bkgd 1    9989620

*** Standard: 4 Rep: 1                Seq:  6       12:15:42 14 Mar 06   HG

Hg     2.00    ppb       98014
               Bkgd 1    9990168

*** Standard: 5 Rep: 1                Seq:  7       12:17:47 14 Mar 06   HG

Hg     5.00    ppb       228964
               Bkgd 1    9988710

*** Standard: 6 Rep: 1                Seq:  8       12:19:44 14 Mar 06   HG

Hg     10.0    ppb       452054
               Bkgd 1    9989556

*** Check Standard: 2  Ck2s2906      Seq:  9       12:23:19 14 Mar 06   HG
Line   Flag            Intensities
Hg                     243578
               Bkgd 1  9983356

*** Check Standard: 1  Ck1ICB        Seq:  10      12:25:00 14 Mar 06   HG
Line   Flag            Intensities
Hg                     -4010
               Bkgd 1  9978055

*** Sample ID: QC331350               Seq:  11      12:27:02 14 Mar 06   HG
                          111271,1
Hg    -.023    ppb       3102
               Bkgd 1    9981125

=============================================================================
```

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

equence: 46105849 Instrument: MET04 HydraAA HG Analyzer
nalytical Method: EPA 7470A SOP Version: HG_water_rv7 Begun: 14-MAR-2006
nalyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
01	111271	ICALBLK	Std01Rep1				14-MAR-2006 12:09	1.0	1.0									
02	111271	ICAL	Std02Rep1				14-MAR-2006 12:11	1.0	1.0									
03	111271	ICAL	Std03Rep1				14-MAR-2006 12:13	1.0	1.0									
04	111271	ICAL	Std04Rep1				14-MAR-2006 12:15	1.0	1.0									
05	111271	ICAL	Std05Rep1				14-MAR-2006 12:17	1.0	1.0									
06	111271	ICAL	Std06Rep1				14-MAR-2006 12:19	1.0	1.0									
07	111271	ICV					14-MAR-2006 12:23	1.0	1.0	2	5.000	46105849001	5.330		ug/L	107		
08	111271	ICB					14-MAR-2006 12:25	1.0	1.0			46105849001	ND	0.20	ug/L			
09	111271	BLANK	QC331350		111271	Water	14-MAR-2006 12:27	1.0	1.0			46105849001	ND	0.20	ug/L			
10	111271	BLANK	QC331351		111271	WET Le	14-MAR-2006 12:29	1.0	5.0			46105849001	ND	1.0	ug/L			
11	111271	BS	QC331352		111271	Water	14-MAR-2006 12:31	1.0	1.0		5.000	46105849001	5.180	0.20	ug/L	104		
12	111271	BSD	QC331353		111271	Water	14-MAR-2006 12:33	1.0	1.0		5.000	46105849001	5.160	0.20	ug/L	103	0	
13	111271	MSS	185408-008		111271	Water	14-MAR-2006 12:35	1.0	1.0			46105849001	ND	0.20	ug/L			
14	111271	MS	QC331354	185408-008	111271	Water	14-MAR-2006 12:37	1.0	1.0		5.000	46105849001	5.260	0.20	ug/L	105		
15	111271	MSD	QC331355	185408-008	111271	Water	14-MAR-2006 12:39	1.0	1.0		5.000	46105849001	5.070	0.20	ug/L	101	4	
16	111271	MSS	185377-002		111271	WET Le	14-MAR-2006 12:41	1.0	5.0			46105849001	2.5	1.0	ug/L			
17	111271	MS	QC331356	185377-002	111271	WET Le	14-MAR-2006 12:43	1.0	5.0		25.00	46105849001	22.65	1.0	ug/L	81		
18	111271	MSD	QC331357	185377-002	111271	WET Le	14-MAR-2006 12:45	1.0	5.0		25.00	46105849001	21.40	1.0	ug/L	76	6	
19	111271	CCV					14-MAR-2006 12:47	1.0	1.0	3	2.500	46105849001	2.440		ug/L	98		
20	111271	CCB					14-MAR-2006 12:49	1.0	1.0			46105849001	ND	0.20	ug/L			
21	111271	SAMPLE	185377-003		111271	WET Le	14-MAR-2006 12:50	1.0	5.0			46105849001	ND	1.0	ug/L			
22	111271	SAMPLE	185408-009		111271	Water	14-MAR-2006 12:52	1.0	1.0			46105849001	ND	0.20	ug/L			
23	111271	SAMPLE	185414-001		111271	Filtra	14-MAR-2006 12:54	1.0	1.0			46105849001	ND	0.20	ug/L			
24	111271	SAMPLE	185414-002		111271	Filtra	14-MAR-2006 12:57	1.0	1.0			46105849001	ND	0.20	ug/L			
25	111271	SAMPLE	185414-003		111271	Filtra	14-MAR-2006 12:59	1.0	1.0			46105849001	ND	0.20	ug/L			
26	111271	SAMPLE	185414-004		111271	Filtra	14-MAR-2006 13:01	1.0	1.0			46105849001	ND	0.20	ug/L			
27	111271	SAMPLE	185414-005		111271	Filtra	14-MAR-2006 13:03	1.0	1.0			46105849001	ND	0.20	ug/L			
28	111271	SAMPLE	185414-006		111271	Filtra	14-MAR-2006 13:05	1.0	1.0			46105849001	ND	0.20	ug/L			
29	111271	SAMPLE	185414-007		111271	Filtra	14-MAR-2006 13:06	1.0	1.0			46105849001	ND	0.20	ug/L			
30	111271	SAMPLE	185414-008		111271	Filtra	14-MAR-2006 13:09	1.0	1.0			46105849001	ND	0.20	ug/L			
31	111271	CCV					14-MAR-2006 13:11	1.0	1.0	4	5.000	46105849001	5.420		ug/L	108		
32	111271	CCB					14-MAR-2006 13:14	1.0	1.0			46105849001	ND	0.20	ug/L			
33	111271	SAMPLE	185414-009		111271	Filtra	14-MAR-2006 13:16	1.0	1.0			46105849001	ND	0.20	ug/L			
34	111271	SAMPLE	185414-010		111271	Filtra	14-MAR-2006 13:17	1.0	1.0			46105849001	ND	0.20	ug/L			
35	111271	SAMPLE	185414-011		111271	Filtra	14-MAR-2006 13:19	1.0	1.0			46105849001	ND	0.20	ug/L			
36	111271	SAMPLE	185414-012		111271	Filtra	14-MAR-2006 13:21	1.0	1.0			46105849001	ND	0.20	ug/L			
37	111271	SAMPLE	185414-013		111271	Filtra	14-MAR-2006 13:23	1.0	1.0			46105849001	ND	0.20	ug/L			
38	111271	SAMPLE	185463-001		111271	Filtra	14-MAR-2006 13:25	1.0	1.0			46105849001	ND	0.20	ug/L			
39	111271	CCV					14-MAR-2006 13:27	1.0	1.0	5	7.500	46105849001	7.750		ug/L	103		
40	111271	CCB					14-MAR-2006 13:29	1.0	1.0			46105849001	ND	0.20	ug/L			

tds used: 1=S2904 2=S2906 3=S2907 4=S2908 5=S2909

nalyst: [signature] Date: 3/14/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 46105934 Instrument: MET04 HydraAA HG Analyzer
Analytical Method: EPA 7470A SOP Version: HG_water_rv7 Begun: 14-MAR-2006
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	111281	CCV					14-MAR-2006 13:34	1.0	1.0	1	5.000	46105849001	5.280		ug/L	106		
002	111281	CCB					14-MAR-2006 13:36	1.0	1.0			46105849001	ND	0.20	ug/L			
003	111281	BLANK	QC331395		111281	Water	14-MAR-2006 13:38	1.0	1.0			46105849001	ND	0.20	ug/L			
004	111281	BLANK	QC331396		111281	TCLP L	14-MAR-2006 13:40	1.0	5.0			46105849001	ND	1.0	ug/L			
005	111281	BS	QC331397		111281	Water	14-MAR-2006 13:42	1.0	1.0		5.000	46105849001	5.000	0.20	ug/L	100		
006	111281	BSD	QC331398		111281	Water	14-MAR-2006 13:44	1.0	1.0		5.000	46105849001	5.090	0.20	ug/L	102	2	
007	111281	MSS	185377-002		111281	TCLP L	14-MAR-2006 13:46	1.0	5.0			46105849001	2.0	1.0	ug/L			
008	111281	MS	QC331399	185377-002	111281	TCLP L	14-MAR-2006 13:48	1.0	5.0		25.00	46105849001	28.10	1.0	ug/L	104		
009	111281	MSD	QC331400	185377-002	111281	TCLP L	14-MAR-2006 13:50	1.0	5.0		25.00	46105849001	27.50	1.0	ug/L	102	2	
010	111281	MSS	185408-008		111281	Filtra	14-MAR-2006 13:52	1.0	1.0			46105849001	ND	0.20	ug/L			
011	111281	MS	QC331401	185408-008	111281	Filtra	14-MAR-2006 13:54	1.0	1.0		5.000	46105849001	5.160	0.20	ug/L	103		
012	111281	MSD	QC331402	185408-008	111281	Filtra	14-MAR-2006 13:55	1.0	1.0		5.000	46105849001	5.120	0.20	ug/L	102	1	
013	111281	CCV					14-MAR-2006 13:57	1.0	1.0	2	7.500	46105849001	7.820		ug/L	104		
014	111281	CCB					14-MAR-2006 13:59	1.0	1.0			46105849001	ND	0.20	ug/L			
015	111281	SAMPLE	185408-009		111281	Filtra	14-MAR-2006 14:01	1.0	1.0			46105849001	ND	0.20	ug/L			
016	111281	SAMPLE	185456-001		111281	Filtra	14-MAR-2006 14:03	1.0	1.0			46105849001	ND	0.20	ug/L			
017	111281	SAMPLE	185456-002		111281	Filtra	14-MAR-2006 14:05	1.0	1.0			46105849001	ND	0.20	ug/L			
018	111281	SAMPLE	185456-003		111281	Filtra	14-MAR-2006 14:07	1.0	1.0			46105849001	ND	0.20	ug/L			
019	111281	SAMPLE	185456-004		111281	Filtra	14-MAR-2006 14:09	1.0	1.0			46105849001	ND	0.20	ug/L			
020	111281	SAMPLE	185456-005		111281	Filtra	14-MAR-2006 14:11	1.0	1.0			46105849001	ND	0.20	ug/L			
021	111281	SAMPLE	185456-006		111281	Filtra	14-MAR-2006 14:13	1.0	1.0			46105849001	ND	0.20	ug/L			
022	111281	SAMPLE	185456-007		111281	Filtra	14-MAR-2006 14:15	1.0	1.0			46105849001	ND	0.20	ug/L			
023	111281	SAMPLE	185456-008		111281	Filtra	14-MAR-2006 14:17	1.0	1.0			46105849001	ND	0.20	ug/L			
024	111281	SAMPLE	185456-009		111281	Filtra	14-MAR-2006 14:19	1.0	1.0			46105849001	ND	0.20	ug/L			
025	111281	CCV					14-MAR-2006 14:21	1.0	1.0	3	2.500	46105849001	2.590		ug/L	104		
026	111281	CCB					14-MAR-2006 14:22	1.0	1.0			46105849001	ND	0.20	ug/L			
027	111281	SAMPLE	185477-001		111281	Water	14-MAR-2006 14:25	1.0	1.0			46105849001	0.28	0.20	ug/L			
028	111281	SAMPLE	185477-002		111281	Water	14-MAR-2006 14:27	1.0	1.0			46105849001	0.35	0.20	ug/L			
029	111281	SAMPLE	185477-003		111281	Water	14-MAR-2006 14:30	1.0	1.0			46105849001	ND	0.20	ug/L			
030	111281	SAMPLE	185477-004		111281	Water	14-MAR-2006 14:32	1.0	1.0			46105849001	ND	0.20	ug/L			
031	111281	SAMPLE	185477-005		111281	Water	14-MAR-2006 14:34	1.0	1.0			46105849001	ND	0.20	ug/L			
032	111281	CCV					14-MAR-2006 14:36	1.0	1.0	1	5.000	46105849001	5.330		ug/L	107		
033	111281	CCB					14-MAR-2006 14:38	1.0	1.0			46105849001	ND	0.20	ug/L			

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Stds used: 1=S2908 2=S2909 3=S2907

Analyst: [signature] Date: 3/14/06

Curtis & Tompkins Laboratories **Sample Preparation Summary** **14-MAR-2006 10:12**

Batch Number : 111271
Date Extracted: 14-MAR-2006
Extracted by : Kale Clauson
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : mL
Clean-up :

Spike #1 ID : S2904
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185377-002			Iris Environmental	WET Leacha	10	mL	50	5.000000	1					HG		
185377-003			Iris Environmental	WET Leacha	10	mL	50	5.000000	1					HG		
185408-008			Treadwell & Rollo	Water	50	mL	50	1.000000	1					HG		
185408-009			Treadwell & Rollo	Water	50	mL	50	1.000000	1					HG		
185414-001			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1					T26/HG		
185414-002			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1					T26/HG		
185414-003			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1					T26/HG		
185414-004			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1					T26/HG		
185414-005			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1					T26/HG		
185414-006			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1					T26/HG		
185414-007			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1					T26/HG		
185414-008			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1					T26/HG		
185414-009			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1					T26/HG		
185414-010			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1					T26/HG		
185414-011			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1					T26/HG		
185414-012			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1					T26/HG		
185414-013			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1					T26/HG		
185463-001			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
QC331350	BLANK			Water	50	mL	50	1.000000	1					HG		
QC331351	BLANK			WET Leacha	10	mL	50	5.000000	1					HG		
QC331352	BS			Water	50	mL	50	1.000000	1		2.5			HG		
QC331353	BSD			Water	50	mL	50	1.000000	1		2.5			HG		
QC331354	MS	of 185408-008		Water	50	mL	50	1.000000	1		2.5			HG		
QC331355	MSD	of 185408-008		Water	50	mL	50	1.000000	1		2.5			HG		
QC331356	MS	of 185377-002		WET Leacha	10	mL	50	5.000000	1		2.5			HG		
QC331357	MSD	of 185377-002		WET Leacha	10	mL	50	5.000000	1		2.5			HG		

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Prep Chemist: _____ Reviewed By: _____ Date: 3/14/06

Relinquished By: _____ Received By: _____ Date: 3/14/06

Water Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 111271
Date Digested: 3/14/06
Digested by: KMC

Digestion Method
☒ EPA 7470A/ EPA 245.1
☐ _____

BK 2277
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Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
185377 - 002 MSS	10	50	N	WET LEACHATE
003				
185408 - 008 MSS X	50			WATER
009 H				
185414 - 001 G				FILTRATES
002				
003				
004				
005				
006				
007				
008				
009				
010				
011				
012				
013				
185463 - 001				
BLANK QC331350				WATER
BLANK QC331351	10			WET LEACHATE
BS/BSD	50			WATER
MS 185408 - 008				
MSD 185408 - 008				
MS 185377 - 002	10			WET LEACHATE
MSD 185377 - 002				

2.5 mL of spike solution was added to all spikes

	Reagent ID/ LIMS# / Time	Initials / Date
	S2904	KMC 3/14
ICAL Source WS#	S2904	
ICV / CCV WS#	S2906/07/08/09	
Digestion of Samples & Standards: Time ON / Temperature ON	930 / 95°C	
Time OFF/ Temperature OFF	1130 / 95°C	
concentrated H_2SO_4	B03032	
concentrated HNO_3	B49053	
5% $KMnO_4$	K 031006	
5% $K_2S_2O_8$	K_2 021406	
NaCl.hydroxylamine hydrochloride	Hy 022806	
Stannous Chloride	$SnCl_2$ 031306	
☐ filtered thru' 0.45 um syringe filter	—	

3/14
Prep Chemist / Date

Continued from page ____
Continued on page ____

K Carlyn 3/14/06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Preparation Summary 14-MAR-2006 11:20

Batch Number : 111281
Date Extracted: 14-MAR-2006
Extracted by : Kale Clauson
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : mL
Clean-up :

Spike #1 ID : S2904
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185377-002			Iris Environmental	TCLP Leach	10	mL	50	5.000000	1					HG		
185408-008			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185408-009			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185456-001			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1					T26/HG		
185456-002			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1					T26/HG		
185456-003			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1					T26/HG		
185456-004			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1					T26/HG		
185456-005			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1					T26/HG		
185456-006			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1					T26/HG		
185456-007			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1					T26/HG		
185456-008			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1					T26/HG		
185456-009			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1					T26/HG		
185477-001			Union Sanitary District	Water	50	mL	50	1.000000	1					HG		
185477-002			Union Sanitary District	Water	50	mL	50	1.000000	1					HG		
185477-003			Union Sanitary District	Water	50	mL	50	1.000000	1					HG		
185477-004			Union Sanitary District	Water	50	mL	50	1.000000	1					HG		
185477-005			Union Sanitary District	Water	50	mL	50	1.000000	1					HG		
QC331395	BLANK			Water	50	mL	50	1.000000	1					HG		
QC331396	BLANK			TCLP Leach	10	mL	50	5.000000	1					HG		
QC331397	BS			Water	50	mL	50	1.000000	1		2.5			HG		
QC331398	BSD			Water	50	mL	50	1.000000	1		2.5			HG		
QC331399	MS	of 185377-002		TCLP Leach	10	mL	50	5.000000	1		2.5			HG		
QC331400	MSD	of 185377-002		TCLP Leach	10	mL	50	5.000000	1		2.5			HG		
QC331401	MS	of 185408-008		Filtrate	50	mL	50	1.000000	1		2.5			HG		
QC331402	MSD	of 185408-008		Filtrate	50	mL	50	1.000000	1		2.5			HG		

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Prep Chemist: [signature]

Reviewed By: [signature] Date: 3/14/06

Relinquished By: [signature]

Received By: [signature] Date: 3/14/06

Water Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 111281

Date Digested: 3/14/06

Digested by: KMC

Digestion Method

☒ EPA 7470A/ EPA 245.1

☐

BK 2277

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Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
185377 - 002MSS	10	50	N	TCLP LEACHATE
185408 - 008MSS U	50			FILTRATE
↓ - 009 G				
185456 - 001 G				
002				
003				
004				
005				
006				
007				
008				
009				
185477 - 001 A				WATER
002				
003				
004				KMC 3/14
005				
BLANK	50			
BLANK	10			TCLP LEACHATE
BS	50			FILTRATE
BSD				
MS 185377-002	10			TCLP LEACHATE
MSD 185377-002	10			
MS 185408 - 008	50			FILTRATE
MSD 185408 - 008				

	Reagent ID/ LIMS# / Time	Initials / Date
2.5 mL of spike solution was added to all spikes	52904	KMC 3/14
ICAL Source WS#	52904	
ICV / CCV WS#	52906/07/08/09	
Digestion of Samples & Standards: Time ON / Temperature ON	1045 / 95°C	
Time OFF/ Temperature OFF	1245 / 95°C	
concentrated H_2SO_4	B03032	
concentrated HNO_3	B49053	
5% $KMnO_4$	K 031006	
5% $K_2S_2O_8$	K_2 021406	
NaCl.hydroxylamine hydrochloride	Hy 022806	
Stannous Chloride	$SnCl_2$ 031306	
☐ filtered thru' 0.45 um syringe filter	—	

3/14

Prep Chemist / Date

Continued from page ____

Continued on page ____

3/14/06

Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 6020 Water 200.8
As of 04/05/06

Analyte	Units	MET05
Aluminum	ug/L	1.0
Antimony	ug/L	0.078
Arsenic	ug/L	0.65
Barium	ug/L	0.23
Beryllium	ug/L	0.055
Cadmium	ug/L	0.14
Calcium	ug/L	15
Chromium	ug/L	0.085
Cobalt	ug/L	0.034
Copper	ug/L	0.31
Iron	ug/L	4.2
Lead	ug/L	0.24
Magnesium	ug/L	2.1
Manganese	ug/L	0.082
Molybdenum	ug/L	0.062
Nickel	ug/L	0.16
Potassium	ug/L	8.9
Selenium	ug/L	0.35
Silver	ug/L	0.041
Sodium	ug/L	15
Thallium	ug/L	0.073
Vanadium	ug/L	0.15
Zinc	ug/L	0.52

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 7470A Water
As of 04/05/06

Analyte	Units	MET04
Mercury	ug/L	0.080

GENERAL CHEMISTRY

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	03/08/06
Units:	mg/L	Received:	03/09/06
Diln Fac:	1.000	Analyzed:	03/15/06
Batch#:	111342		

Field ID: 600GW106 Lab ID: 185408-001
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	210	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	210	1.0

Field ID: 600GW101 Lab ID: 185408-002
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	610	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	610	1.0

Field ID: 600GW105 Lab ID: 185408-003
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	320	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	320	1.0

Field ID: 231GW21 Lab ID: 185408-004
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	450	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	450	1.0

Field ID: DUP0308061A Lab ID: 185408-005
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	470	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	470	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	03/08/06
Units:	mg/L	Received:	03/09/06
Diln Fac:	1.000	Analyzed:	03/15/06
Batch#:	111342		

Field ID: LF01GW01 Lab ID: 185408-006
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	310	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	310	1.0

Field ID: DUP0308063C Lab ID: 185408-007
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	300	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	300	1.0

Field ID: DAESP03 Lab ID: 185408-008
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	89	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	89	1.0

Field ID: DUP0308063A Lab ID: 185408-009
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	78	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	78	1.0

Field ID: BB3SW104 Lab ID: 185408-010
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	160	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	160	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	03/08/06
Units:	mg/L	Received:	03/09/06
Diln Fac:	1.000	Analyzed:	03/15/06
Batch#:	111342		

Field ID: DUP0308063B Lab ID: 185408-011
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	140	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	140	1.0

Type: BLANK Lab ID: QC331638

Analyte	Result	RL
Alkalinity, Bicarbonate	ND	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Units:	mg/L
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331639	Batch#:	111342
Matrix:	Water	Analyzed:	03/15/06

Spiked	Result	%REC	Limits
200.0	180.4	90	90-110

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Diln Fac:	1.000
Field ID:	600GW101	Batch#:	111342
MSS Lab ID:	185408-002	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	mg/L	Analyzed:	03/15/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC331640	606.4	200.0	796.1	95	69-112		
MSD	QC331641		200.0	800.5	97	69-112	1	25

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Diln Fac:	1.000
Field ID:	DAESP03	Batch#:	111342
MSS Lab ID:	185408-008	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	mg/L	Analyzed:	03/15/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC331642	89.28	200.0	267.8	89	69-112		
MSD	QC331643		200.0	269.7	90	69-112	1	25

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Diln Fac:	1.000
Field ID:	BB3SW104	Batch#:	111342
MSS Lab ID:	185408-010	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	mg/L	Analyzed:	03/15/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC331644	156.2	200.0	325.5	85	69-112		
MSD	QC331645		200.0	322.9	83	69-112	1	25

RPD= Relative Percent Difference

Analysis: **Alkalinity** Analysis Date: **03/15/06**

Method: **EPA 310.1** / SMWW 2320B Batch No: **111342**

SOP#: Alkalinity_rv 6.doc

H_2SO_4 Normality = **0.0186**

conc.(mg/L) Na_2CO_3 for QC = **200**

Analyst: RS

SAMPLE	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alkalinity Volume (4.5-4.2) (mL)	**Low Alkalinity** as $CaCO_3$ (mg/L)	Reporting Limit (mg/L)
185370-001	6.60	5	0.00	63.15	11745.90		n/a	5.0
185370-002	6.31	5	0.00	29.10	5412.60		n/a	5.0
185408-001	6.98	25	0.00	5.70	212.04		n/a	1.0
185408-002	7.10	25	0.00	16.30	606.36		n/a	1.0
185408-003	7.00	25	0.00	8.70	323.64		n/a	1.0
185408-004	6.94	25	0.00	12.10	450.12		n/a	1.0
185408-005	6.85	25	0.00	12.60	468.72		n/a	1.0
185408-006	6.82	25	0.00	8.30	308.76		n/a	1.0
185408-007	6.77	25	0.00	8.00	297.60		n/a	1.0
185408-008	6.98	25	0.00	2.40	89.28		n/a	1.0
185408-009	6.88	25	0.00	2.10	78.12		n/a	1.0
185408-010	7.87	25	0.00	4.20	156.24		n/a	1.0
185408-011	7.82	25	0.00	3.70	137.64		n/a	1.0

QC DATA	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alk Vol (mL)	**Low Alk** as $CaCO_3$ (mg/L)	RL (mg/L)	% Rec.	% RPD
MB	4.98	25	0.00	0.00	ND			1.0		
LCS	9.75	25	2.00	4.85	180.42			1.0	90	
185408-002	7.1	25	0.00	16.30	606.36			1.0		
MS	7.76	25	0.00	21.40	796.08			1.0	95	
MSD	7.74	25	0.00	21.52	800.54			1.0	97	1
185408-008	6.98	25	0.00	2.40	89.28			1.0		
MS	9.6	25	1.80	7.20	267.84			1.0	89	
MSD	9.58	25	2.40	7.25	269.70			1.0	90	1
185408-010	7.87	25	0.00	4.20	156.24			1.0		
MS	9.54	25	1.95	8.75	325.50			1.0	85	
MSD	9.8	25	2.05	8.68	322.90			1.0	83	1

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QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	25	80 - 120

Reviewed by/ Date: 3-15-6

Curtis Tompkins, Ltd.

Template: F:\inorgan\wetstuff\alkalinity.xls
Ver.8.3, Effective 6/03/04

Analysis: **Alkalinity**
Method: **EPA 310.1**

Analysis Date: 03/15/06
Batch No: 111342

H_2SO_4 Normality = 0.0186
Analyst: RS

SAMPLE	(P)	(T-P)	Total Alkalinty as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity	Carbonate Alkalinity	Hydroxide Alkalinity
				as $CaCO_3$ (mg/L)		
185370-001	0.0	11745.9	11745.9	11745.900	0.000	0.000
185370-002	0.0	5412.6	5412.6	5412.600	0.000	0.000
185408-001	0.0	212.0	212.04	212.040	0.000	0.000
185408-002	0.0	606.4	606.36	606.360	0.000	0.000
185408-003	0.0	323.6	323.64	323.640	0.000	0.000
185408-004	0.0	450.1	450.12	450.120	0.000	0.000
185408-005	0.0	468.7	468.72	468.720	0.000	0.000
185408-006	0.0	308.8	308.76	308.760	0.000	0.000
185408-007	0.0	297.6	297.6	297.600	0.000	0.000
185408-008	0.0	89.3	89.28	89.280	0.000	0.000
185408-009	0.0	78.1	78.12	78.120	0.000	0.000
185408-010	0.0	156.2	156.24	156.240	0.000	0.000
185408-011	0.0	137.6	137.64	137.640	0.000	0.000

P: Phenolphthalein Alkalinity (using volume to pH 8.3)
T-P: Total Alkalinity minus Phenolphthalein Alkalinity

Carbonate Alkalinity = 2x the smaller of P or (T-P)
Bicarbonate Alkalinity = (T-2P) when P < (T-P)
Hydroxide Alkalinity = (2P-T) when (T-P) < P

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Analysis: **Alkalinity**
Method: **EPA 310.1**

Analysis Date: 03/15/06
Batch No: 111342

H_2SO_4 Normality = 0.0186
Analyst: RS

SAMPLE	**Total Alkalinty** as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity **as HCO_3^- (mg/L)**	Carbonate Alkalinity **as CO_3^{2-} (mg/L)**	Hydroxide Alkalinity **as OH^- (mg/L)**
185370-001	11745.9	14321.15	0.000	0.00
185370-002	5412.6	6599.30	0.000	0.00
185408-001	212.04	258.53	0.000	0.00
185408-002	606.36	739.30	0.00	0.00
185408-003	323.64	394.60	0.00	0.00
185408-004	450.12	548.81	0.00	0.00
185408-005	468.72	571.49	0.000	0.00
185408-006	308.76	376.45	0.000	0.00
185408-007	297.6	362.85	0.00	0.00
185408-008	89.28	108.85	0.000	0.00
185408-009	78.12	95.25	0.000	0.00
185408-010	156.24	190.50	0.000	0.00
185408-011	137.64	167.82	0.000	0.00

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Alkalinity Benchbook EPA 310.1 / SMWW 2320B Curtis & Tompkins, Lt

LIMS Batch #: 111342 Date: 3-15-06 Benchbook#: **BK 2255**
Matrix: H2O Time: 1034 Page: **14**

CAL-ph 4.0: SS#: 0555 14
CAL-ph 7.0: SS#: 5171
CAL-ph 10.0: SS#: 5169
Slope: 96.9
(slope limits: 92 - 102)

$CaCO_3$ Vol (mgL) Spiked: 5
$CaCO_3$ Conc (mg/L): 1,000
$CaCO_3$ WS#: 51576
H_2SO_4 Normality: 0.0186
H_2SO_4 Reagent ID: 7-27-06

	Sample # / Letter	Sample Vol. Titrated (mL)	Initial pH (S.U.)	H_2SO_4 Vol (mL) to pH 8.3	H_2SO_4 Vol (mL) to pH 4.5 *	Low Alk TotalVol (mL)	Comme
1	MB	25	4.98	—	< 0.05		
	LCS	↓	9.75	2.00	4.85		
	185370-001D	5	6.60	—	63.15		
	-002 ↓	↓	6.51	—	29.10		
5	185408-001L	25	6.98	—	5.70		
	-002Z		7.10	—	16.30		
	MS -002		7.76	—	21.40		
	MSD -002 ↓		7.74	—	21.52		
	-003L		7.00	—	8.70		
10	-004		6.94	—	12.10		
	-005 ↓		6.85	—	12.60		
	-006B		6.82	—	8.30		
	-007 ↓		6.77	—	8.00		
	-008Z		6.98		2.40		
15	MS -008		9.60	RS 3/15/06 ~~1.80~~	7.20		
	MSD -008 ↓		9.58	2.40	7.25		
	-009J		6.88	—	2.10		
	-010Q		7.87	—	4.20		
	MS -010		9.54	RS 3/15/06 ~~1.95~~	8.75		
20	MSD -010 ↓		9.80	2.05	8.68		
	-011F	↓	7.82	—	3.70		
				RS 3/15/06			

* If Acid Vol to 4.5 is < 2.0mL, redo using 100mL sample volume. If still < 2.0mL, go on to Low Alkalin

RSCiFFa 3/15/06
Analyst / Date

3-15-6
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111342
Date Started: 15-MAR-2006
Batched by : Radia Shiffa

Analysis : ALKALINITY
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185370-001			Alta Environmental	Water	ALKALINITY	15-MAR-2006
185370-002			Alta Environmental	Water	ALKALINITY	15-MAR-2006
185408-001			Treadwell & Rollo	Water	ALKALINITY	21-MAR-2006
185408-002			Treadwell & Rollo	Water	ALKALINITY	21-MAR-2006
185408-003			Treadwell & Rollo	Water	ALKALINITY	21-MAR-2006
185408-004			Treadwell & Rollo	Water	ALKALINITY	21-MAR-2006
185408-005			Treadwell & Rollo	Water	ALKALINITY	21-MAR-2006
185408-006			Treadwell & Rollo	Water	ALKALINITY	21-MAR-2006
185408-007			Treadwell & Rollo	Water	ALKALINITY	21-MAR-2006
185408-008			Treadwell & Rollo	Water	ALKALINITY	21-MAR-2006
185408-009			Treadwell & Rollo	Water	ALKALINITY	21-MAR-2006
185408-010			Treadwell & Rollo	Water	ALKALINITY	21-MAR-2006
185408-011			Treadwell & Rollo	Water	ALKALINITY	21-MAR-2006
QC331638	BLANK			Water	ALKALINITY	
QC331639	LCS			Water	ALKALINITY	
QC331640	MS	of 185408-002		Water	ALKALINITY	
QC331641	MSD	of 185408-002		Water	ALKALINITY	
QC331642	MS	of 185408-008		Water	ALKALINITY	
QC331643	MSD	of 185408-008		Water	ALKALINITY	
QC331644	MS	of 185408-010		Water	ALKALINITY	
QC331645	MSD	of 185408-010		Water	ALKALINITY	

Curtis & Tompkins, Ltd.

Chloride

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Batch#:	111161
Matrix:	Water	Received:	03/09/06
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Diln Fac	Sampled	Analyzed
600GW106	SAMPLE	185408-001	47	2.0	10.00	03/08/06 09:50	03/10/06 02:37
600GW101	SAMPLE	185408-002	74	5.0	25.00	03/08/06 10:50	03/09/06 15:41
600GW105	SAMPLE	185408-003	84	2.0	10.00	03/08/06 13:00	03/10/06 02:54
231GW21	SAMPLE	185408-004	32	2.0	10.00	03/08/06 13:58	03/10/06 03:10
DUP0308061A	SAMPLE	185408-005	34	2.0	10.00	03/08/06 14:30	03/10/06 03:26
LF01GW01	SAMPLE	185408-006	52	2.0	10.00	03/08/06 15:30	03/10/06 03:43
DUP0308063C	SAMPLE	185408-007	53	2.0	10.00	03/08/06 15:35	03/10/06 03:59
DAESP03	SAMPLE	185408-008	28	1.0	5.000	03/08/06 10:00	03/09/06 16:14
DUP0308063A	SAMPLE	185408-009	29	1.0	5.000	03/08/06 10:05	03/10/06 04:16
BB3SW104	SAMPLE	185408-010	71	1.0	5.000	03/08/06 13:30	03/09/06 15:57
DUP0308063B	SAMPLE	185408-011	72	1.0	5.000	03/08/06 13:35	03/10/06 05:38
	BLANK	QC330872	ND	0.20	1.000		03/09/06 12:28

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Fluoride

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Diln Fac:	1.000
Matrix:	Water	Batch#:	111161
Units:	mg/L	Received:	03/09/06

Field ID	Type	Lab ID	Result	RL	Sampled	Analyzed
600GW106	SAMPLE	185408-001	0.16	0.10	03/08/06 09:50	03/09/06 16:46
600GW101	SAMPLE	185408-002	0.35	0.10	03/08/06 10:50	03/09/06 17:19
600GW105	SAMPLE	185408-003	0.25	0.10	03/08/06 13:00	03/09/06 17:52
231GW21	SAMPLE	185408-004	0.20	0.10	03/08/06 13:58	03/09/06 18:25
DUP0308061A	SAMPLE	185408-005	0.20	0.10	03/08/06 14:30	03/09/06 21:42
LF01GW01	SAMPLE	185408-006	ND	0.10	03/08/06 15:30	03/09/06 22:15
DUP0308063C	SAMPLE	185408-007	ND	0.10	03/08/06 15:35	03/09/06 22:47
DAESP03	SAMPLE	185408-008	ND	0.10	03/08/06 10:00	03/09/06 23:20
DUP0308063A	SAMPLE	185408-009	ND	0.10	03/08/06 10:05	03/10/06 00:59
BB3SW104	SAMPLE	185408-010	ND	0.10	03/08/06 13:30	03/10/06 01:31
DUP0308063B	SAMPLE	185408-011	ND	0.10	03/08/06 13:35	03/10/06 02:04
	BLANK	QC330872	ND	0.10		03/09/06 12:28

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrate Nitrogen

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Batch#:	111161
Matrix:	Water	Received:	03/09/06
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Diln Fac	Sampled	Analyzed
600GW106	SAMPLE	185408-001	5.6	0.50	10.00	03/08/06 09:50	03/10/06 02:37
600GW101	SAMPLE	185408-002	ND	0.05	1.000	03/08/06 10:50	03/09/06 17:19
600GW105	SAMPLE	185408-003	1.3	0.05	1.000	03/08/06 13:00	03/09/06 17:52
231GW21	SAMPLE	185408-004	ND	0.05	1.000	03/08/06 13:58	03/09/06 18:25
DUP0308061A	SAMPLE	185408-005	ND	0.05	1.000	03/08/06 14:30	03/09/06 21:42
LF01GW01	SAMPLE	185408-006	5.5	0.50	10.00	03/08/06 15:30	03/10/06 03:43
DUP0308063C	SAMPLE	185408-007	5.6	0.50	10.00	03/08/06 15:35	03/10/06 03:59
DAESP03	SAMPLE	185408-008	1.7	0.05	1.000	03/08/06 10:00	03/09/06 23:20
DUP0308063A	SAMPLE	185408-009	1.7	0.05	1.000	03/08/06 10:05	03/10/06 00:59
BB3SW104	SAMPLE	185408-010	4.5	0.05	1.000	03/08/06 13:30	03/10/06 01:31
DUP0308063B	SAMPLE	185408-011	4.5	0.05	1.000	03/08/06 13:35	03/10/06 02:04
	BLANK	QC330872	ND	0.05	1.000		03/09/06 12:28

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrite Nitrogen

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Diln Fac:	1.000
Matrix:	Water	Batch#:	111161
Units:	mg/L	Received:	03/09/06

Field ID	Type	Lab ID	Result	RL	Sampled	Analyzed
600GW106	SAMPLE	185408-001	0.06	0.05	03/08/06 09:50	03/09/06 16:46
600GW101	SAMPLE	185408-002	ND	0.05	03/08/06 10:50	03/09/06 17:19
600GW105	SAMPLE	185408-003	ND	0.05	03/08/06 13:00	03/09/06 17:52
231GW21	SAMPLE	185408-004	ND	0.05	03/08/06 13:58	03/09/06 18:25
DUP0308061A	SAMPLE	185408-005	ND	0.05	03/08/06 14:30	03/09/06 21:42
LF01GW01	SAMPLE	185408-006	ND	0.05	03/08/06 15:30	03/09/06 22:15
DUP0308063C	SAMPLE	185408-007	ND	0.05	03/08/06 15:35	03/09/06 22:47
DAESP03	SAMPLE	185408-008	ND	0.05	03/08/06 10:00	03/09/06 23:20
DUP0308063A	SAMPLE	185408-009	ND	0.05	03/08/06 10:05	03/10/06 00:59
BB3SW104	SAMPLE	185408-010	ND	0.05	03/08/06 13:30	03/10/06 01:31
DUP0308063B	SAMPLE	185408-011	ND	0.05	03/08/06 13:35	03/10/06 02:04
	BLANK	QC330872	ND	0.05		03/09/06 12:28

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Sulfate

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Batch#:	111161
Matrix:	Water	Received:	03/09/06
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Diln Fac	Sampled	Analyzed
600GW106	SAMPLE	185408-001	92	5.0	10.00	03/08/06 09:50	03/10/06 02:37
600GW101	SAMPLE	185408-002	11	0.50	1.000	03/08/06 10:50	03/09/06 17:19
600GW105	SAMPLE	185408-003	68	5.0	10.00	03/08/06 13:00	03/10/06 02:54
231GW21	SAMPLE	185408-004	ND	0.50	1.000	03/08/06 13:58	03/09/06 18:25
DUP0308061A	SAMPLE	185408-005	ND	0.50	1.000	03/08/06 14:30	03/09/06 21:42
LF01GW01	SAMPLE	185408-006	48	0.50	1.000	03/08/06 15:30	03/09/06 22:15
DUP0308063C	SAMPLE	185408-007	48	0.50	1.000	03/08/06 15:35	03/09/06 22:47
DAESP03	SAMPLE	185408-008	16	0.50	1.000	03/08/06 10:00	03/09/06 23:20
DUP0308063A	SAMPLE	185408-009	16	0.50	1.000	03/08/06 10:05	03/10/06 00:59
BB3SW104	SAMPLE	185408-010	25	0.50	1.000	03/08/06 13:30	03/10/06 01:31
DUP0308063B	SAMPLE	185408-011	25	0.50	1.000	03/08/06 13:35	03/10/06 02:04
	BLANK	QC330872	ND	0.50	1.000		03/09/06 12:28

ND= Not Detected
RL= Reporting Limit

Batch QC Report

Chloride

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Batch#:	111161
Matrix:	Water	Received:	03/09/06
Units:	mg/L		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Sampled	Analyzed
	BS		QC330873		4.000	3.887	97	80-120			1.000		03/09/06 12:45
	BSD		QC330874		4.000	3.757	94	80-120	3	20	1.000		03/09/06 13:01
600GW101	MS	185408-002	QC330875	74.17	50.00	122.0	96	80-120			25.00	03/08/06 10:50	03/09/06 20:03
600GW101	MSD	185408-002	QC330876		50.00	122.9	97	80-120	1	25	25.00	03/08/06 10:50	03/09/06 20:20
DAESP03	MS	185408-008	QC330877	28.50	10.00	38.76	103	80-120			5.000	03/08/06 10:00	03/09/06 20:36
DAESP03	MSD	185408-008	QC330878		10.00	38.81	103	80-120	0	25	5.000	03/08/06 10:00	03/09/06 20:53
BB3SW104	MS	185408-010	QC330879	71.48	20.00	92.09	103	80-120			10.00	03/08/06 13:30	03/09/06 21:09
BB3SW104	MSD	185408-010	QC330880		20.00	91.72	101	80-120	0	25	10.00	03/08/06 13:30	03/09/06 21:25

536

RPD= Relative Percent Difference

3.0

Curtis & Tompkins, Ltd.

Batch QC Report

Fluoride

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Batch#:	111161
Matrix:	Water	Received:	03/09/06
Units:	mg/L		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Sampled	Analyzed
	BS		QC330873		2.000	2.033	102	80-120			1.000		03/09/06 12:45
	BSD		QC330874		2.000	1.946	97	80-120	4	20	1.000		03/09/06 13:01
600GW101	MS	185408-002	QC330875	0.3464	25.00	25.09	99	77-120			25.00	03/08/06 10:50	03/09/06 20:03
600GW101	MSD	185408-002	QC330876		25.00	24.72	97	77-120	1	20	25.00	03/08/06 10:50	03/09/06 20:20
DAESP03	MS	185408-008	QC330877	0.04425	5.000	5.078	101	77-120			5.000	03/08/06 10:00	03/09/06 20:36
DAESP03	MSD	185408-008	QC330878		5.000	4.918	97	77-120	3	20	5.000	03/08/06 10:00	03/09/06 20:53
BB3SW104	MS	185408-010	QC330879	0.09790	10.00	9.983	99	77-120			10.00	03/08/06 13:30	03/09/06 21:09
BB3SW104	MSD	185408-010	QC330880		10.00	9.809	97	77-120	2	20	10.00	03/08/06 13:30	03/09/06 21:25

537

RPD= Relative Percent Difference

5.0

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrate Nitrogen

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Batch#:	111161
Matrix:	Water	Received:	03/09/06
Units:	mg/L		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Sampled	Analyzed
	BS		QC330873		1.000	0.9887	99	80-120			1.000		03/09/06 12:45
	BSD		QC330874		1.000	0.9512	95	80-120	4	20	1.000		03/09/06 13:01
600GW101	MS	185408-002	QC330875	<0.008826	12.50	11.71	94	80-120			25.00	03/08/06 10:50	03/09/06 20:03
600GW101	MSD	185408-002	QC330876		12.50	11.88	95	80-120	1	25	25.00	03/08/06 10:50	03/09/06 20:20
DAESP03	MS	185408-008	QC330877	1.655	2.500	4.043	96	80-120			5.000	03/08/06 10:00	03/09/06 20:36
DAESP03	MSD	185408-008	QC330878		2.500	4.058	96	80-120	0	25	5.000	03/08/06 10:00	03/09/06 20:53
BB3SW104	MS	185408-010	QC330879	4.517	5.000	9.367	97	80-120			10.00	03/08/06 13:30	03/09/06 21:09
BB3SW104	MSD	185408-010	QC330880		5.000	9.078	91	80-120	3	25	10.00	03/08/06 13:30	03/09/06 21:25

538

RPD= Relative Percent Difference

7.0

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrite Nitrogen

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Batch#:	111161
Matrix:	Water	Received:	03/09/06
Units:	mg/L		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Sampled	Analyzed
	BS		QC330873		1.000	0.9732	97	80-120			1.000		03/09/06 12:45
	BSD		QC330874		1.000	0.9592	96	80-120	1	20	1.000		03/09/06 13:01
600GW101	MS	185408-002	QC330875	<0.01206	12.50	11.75	94	80-120			25.00	03/08/06 10:50	03/09/06 20:03
600GW101	MSD	185408-002	QC330876		12.50	12.20	98	80-120	4	25	25.00	03/08/06 10:50	03/09/06 20:20
DAESP03	MS	185408-008	QC330877	<0.01206	2.500	2.450	98	80-120			5.000	03/08/06 10:00	03/09/06 20:36
DAESP03	MSD	185408-008	QC330878		2.500	2.442	98	80-120	0	25	5.000	03/08/06 10:00	03/09/06 20:53
BB3SW104	MS	185408-010	QC330879	<0.01206	5.000	4.858	97	80-120			10.00	03/08/06 13:30	03/09/06 21:09
BB3SW104	MSD	185408-010	QC330880		5.000	4.672	93	80-120	4	25	10.00	03/08/06 13:30	03/09/06 21:25

539

RPD= Relative Percent Difference

9.0

Curtis & Tompkins, Ltd.

Batch QC Report

Sulfate

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Batch#:	111161
Matrix:	Water	Received:	03/09/06
Units:	mg/L		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Sampled	Analyzed
	BS		QC330873		10.00	9.782	98	80-120			1.000		03/09/06 12:45
	BSD		QC330874		10.00	9.483	95	80-120	3	20	1.000		03/09/06 13:01
600GW101	MS	185408-002	QC330875	10.98	125.0	134.5	99	80-120			25.00	03/08/06 10:50	03/09/06 20:03
600GW101	MSD	185408-002	QC330876		125.0	131.3	96	80-120	2	25	25.00	03/08/06 10:50	03/09/06 20:20
DAESP03	MS	185408-008	QC330877	16.28	25.00	40.41	97	80-120			5.000	03/08/06 10:00	03/09/06 20:36
DAESP03	MSD	185408-008	QC330878		25.00	39.87	94	80-120	1	25	5.000	03/08/06 10:00	03/09/06 20:53
BB3SW104	MS	185408-010	QC330879	24.83	50.00	73.66	98	80-120			10.00	03/08/06 13:30	03/09/06 21:09
BB3SW104	MSD	185408-010	QC330880		50.00	74.02	98	80-120	0	25	10.00	03/08/06 13:30	03/09/06 21:25

540

RPD= Relative Percent Difference

11.0

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 300.0

Inst : IC03
Calnum : 626087283001 Date : 01-MAR-2006 15:02 Inj Vol: 25 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	060_2.000	626087283002	L1	01-MAR-2006 15:02	S1888 (500X)
L2	060_3.000	626087283003	L2	01-MAR-2006 15:20	S1888 (100X)
L3	060_4.000	626087283004	L3	01-MAR-2006 15:39	S1888 (25X)
L4	060_5.000	626087283005	L4	01-MAR-2006 15:57	S1888 (10X)
L5	060_6.000	626087283006	L5	01-MAR-2006 16:15	S1888 (5X)

Mar 3/2/06

Analyte	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MnR^2	Flg
Fluoride	0.1716	0.1970	0.2011	0.2058	0.2193	QORG	A		0.19367	0.002557	mg/L	0.1990	1.000	0.990	
Chloride	0.2004	0.1474	0.1573	0.1617	0.1760	QORG	A		0.14901	0.001346	mg/L	0.1686	1.000	0.990	
Nitrogen, Nitrite	0.2691	0.2776	0.3037	0.3039	0.3170	QORG	A		0.29330	0.004711	mg/L	0.2943	1.000	0.990	
Bromide	0.0471	0.0627	0.0663	0.0635	0.0673	QORG	A		0.06168	2.750E-4	mg/L	0.0614	1.000	0.990	
Nitrogen, Nitrate	0.3560	0.3834	0.3978	0.3870	0.4128	QORG	A		0.37136	0.008191	mg/L	0.3874	1.000	0.990	
Orthophosphate (as P)	0.0986	0.1086	0.1241	0.1248	0.1349	QORG	A		0.11651	9.164E-4	mg/L	0.1182	1.000	0.990	NA
Sulfate	0.1066	0.1006	0.1099	0.1118	0.1203	QORG	A		0.10436	3.187E-4	mg/L	0.1099	1.000	0.990	

MRS 3/2/06

541

QORG=Quadratic regression forced through origin

Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

626087283001

Sequence: 060
Operator: ic_analyst
Printed: 3/2/2006 11:25:27 AM

Title: Anions
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006
Timebase: IC3_DX120
#Samples: 8

Created: 8/1/2003 11:03:14 AM by ic_analyst
Last Update: 3/1/2006 4:23:55 PM by ic_analyst

No.	*Batch	Name	Comment	Dil. Factor	Program	Status	Inj. Date/Time
1	CAL-060	IB		1.0000	IC03-7AN	Finished	3/1/2006 2:43:54 PM
2	CAL-060	ICAL, L1,S1888,500		1.0000	IC03-7AN	Finished	3/1/2006 3:02:19 PM
3	CAL-060	ICAL, L2,S1888,100		1.0000	IC03-7AN	Finished	3/1/2006 3:20:44 PM
4	CAL-060	ICAL, L3,S1888,25		1.0000	IC03-7AN	Finished	3/1/2006 3:39:08 PM
5	CAL-060	ICAL, L4,S1888,10		1.0000	IC03-7AN	Finished	3/1/2006 3:57:33 PM
6	CAL-060	ICAL, L5,S1888,5		1.0000	IC03-7AN	Finished	3/1/2006 4:15:58 PM
7	CAL-060	ICV,S1085,5		1.0000	IC03-7AN	Finished	3/1/2006 4:34:23 PM
8	CAL-060	ICB		1.0000	IC03-7AN	Finished	3/1/2006 4:52:47 PM

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Sequence: 060
Operator: ic_analyst
Printed: 3/2/2006 11:25:27 AM

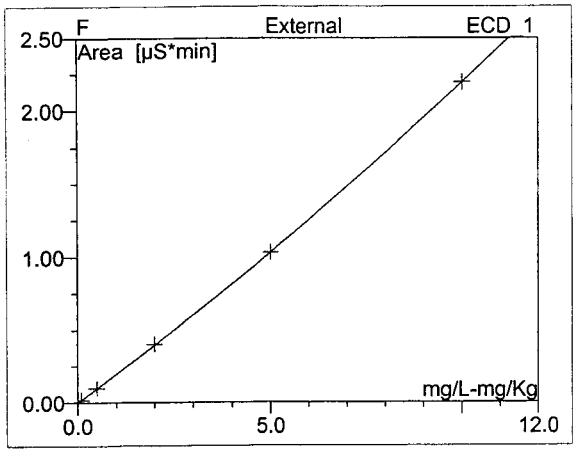
Title: Anions
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006
Timebase: IC3_DX120
#Samples: 8

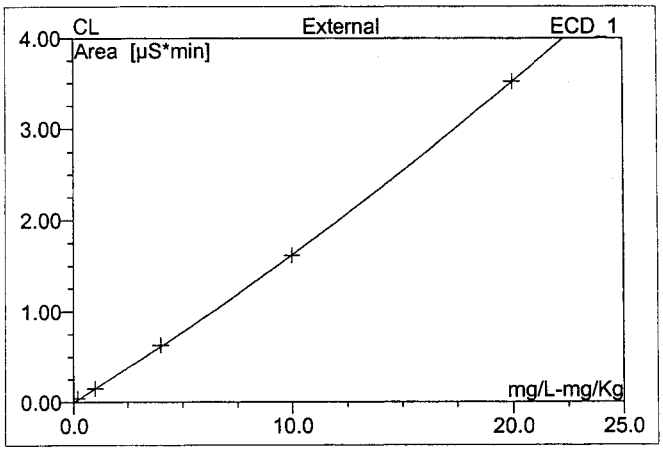
Created: 8/1/2003 11:03:14 AM by ic_analyst
Last Update: 3/1/2006 4:23:55 PM by ic_analyst

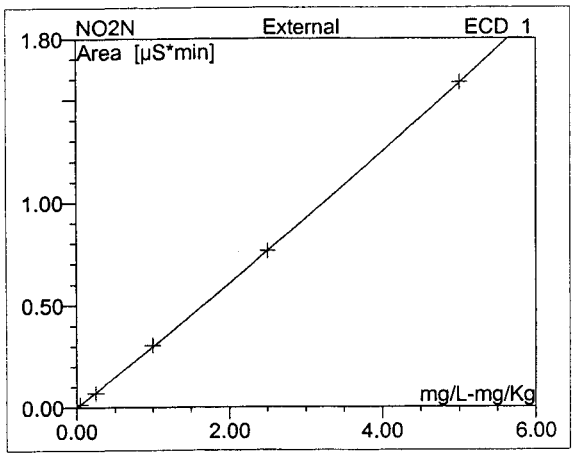
No.	*Batch	Name	Comment	Method	Type	Inj. Vol.	*operator	*PDF
1	CAL-060	IB		IC03-7AN_CAL	Unknown	25.0	MRS	1
2	CAL-060	ICAL, L1,S1888,500		IC03-7AN_CAL	Standard	25.0	MRS	1
3	CAL-060	ICAL, L2,S1888,100		IC03-7AN_CAL	Standard	25.0	MRS	1
4	CAL-060	ICAL, L3,S1888,25		IC03-7AN_CAL	Standard	25.0	MRS	1
5	CAL-060	ICAL, L4,S1888,10		IC03-7AN_CAL	Standard	25.0	MRS	1
6	CAL-060	ICAL, L5,S1888,5		IC03-7AN_CAL	Standard	25.0	MRS	1
7	CAL-060	ICV,S1085,5		IC03-7AN_CAL	Unknown	25.0	MRS	1
8	CAL-060	ICB		IC03-7AN_CAL	Unknown	25.0	MRS	1

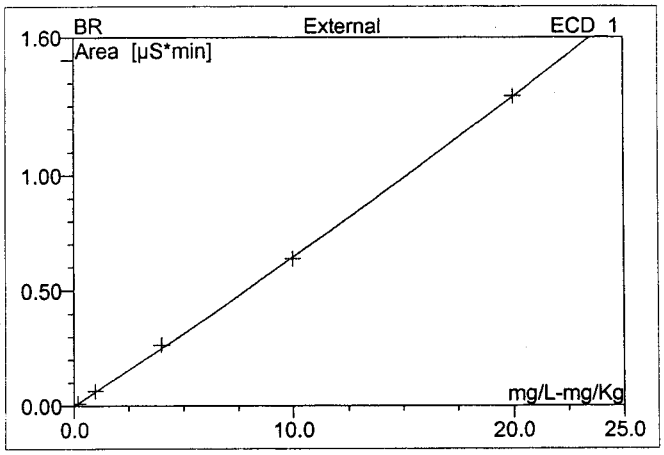
IC03 Calibration Batch Report

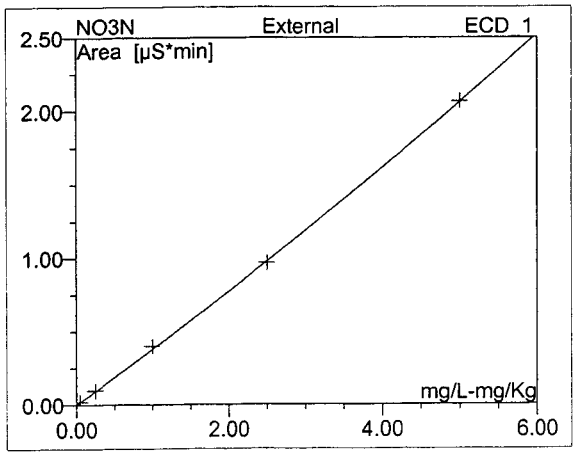
Sequence:	060	Inj. Vol.:	25.0
Program:	IC03-7AN	Operator:	PC_NEWIC
Inj. Date/Time:	03/01/06 15:39	Run Time:	16.00

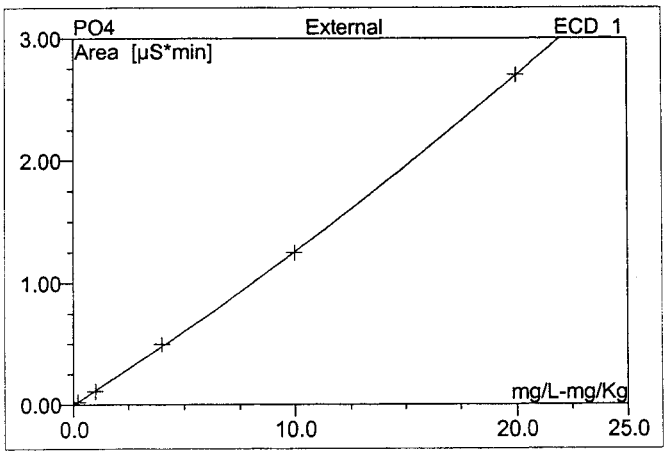




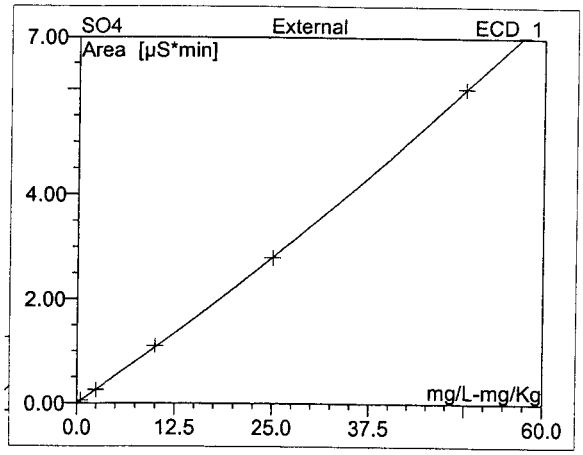








Sequence:	**060**	*Inj. Vol.:*	**25.0**
Program:	**IC03-7AN**	*Operator:*	**n.a.**
Inj. Date/Time:	**03/01/06 15:39**	*Run Time:*	**16.00**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	2.870	F	Quad	5	0.000000	0.193669	0.002557	99.951556
2	4.217	CL	Quad	5	0.000000	0.149009	0.001346	99.909274
3	5.010	NO2N	Quad	5	0.000000	0.293301	0.004711	99.980499
4	6.363	BR	Quad	5	0.000000	0.061677	0.000275	99.961186
5	7.183	NO3N	Quad	5	0.000000	0.371363	0.008191	99.950755
6	9.350	PO4	Quad	5	0.000000	0.116513	0.000916	99.934448
7	11.167	SO4	Quad	5	0.000000	0.104363	0.000319	99.936780
AVERAGE:					0.000000	0.184271	0.002616	99.946357

No.	Name	Area µS*min F ECD_1	Area µS*min CL ECD_1	Area µS*min NO2N ECD_1	Area µS*min BR ECD_1	Area µS*min NO3N ECD_1	Area µS*min PO4 ECD_1	Area µS*min SO4 ECD_1
2	ICAL, L1,S18	0.017161	0.040074	0.013455	0.009416	0.017801	0.019729	0.053320
3	ICAL, L2,S18	0.098503	0.147367	0.069403	0.062700	0.095842	0.108648	0.251558
4	ICAL, L3,S18	0.402286	0.629116	0.303748	0.265105	0.397785	0.496547	1.098657
5	ICAL, L4,S18	1.029135	1.617474	0.759872	0.635291	0.967493	1.248459	2.795566
6	ICAL, L5,S18	2.192959	3.519967	1.584757	1.345233	2.063887	2.698316	6.017213

No.	Name	Height µS F ECD_1	Height µS CL ECD_1	Height µS NO2N ECD_1	Height µS BR ECD_1	Height µS NO3N ECD_1	Height µS PO4 ECD_1	Height µS SO4 ECD_1
2	ICAL, L1,S18	0.119928	0.332400	0.084748	0.057026	0.074652	0.061912	0.150120
3	ICAL, L2,S18	0.624736	1.151678	0.427428	0.312212	0.389908	0.332100	0.786078
4	ICAL, L3,S18	2.934282	5.019222	1.815278	1.334402	1.670152	1.537158	3.389914
5	ICAL, L4,S18	7.925782	12.944296	4.498282	3.261344	4.151488	4.029644	8.663126
6	ICAL, L5,S18	18.187422	28.959684	9.537670	7.026382	9.031478	9.108810	19.245860

No.	Name	Amount mg/L-mg/Kg F ECD_1	Amount mg/L-mg/Kg CL ECD_1	Amount mg/L-mg/Kg NO2N ECD_1	Amount mg/L-mg/Kg BR ECD_1	Amount mg/L-mg/Kg NO3N ECD_1	Amount mg/L-mg/Kg PO4 ECD_1	Amount mg/L-mg/Kg SO4 ECD_1
2	ICAL, L1,S18	0.088509	0.268287	0.045841	0.152565	0.047883	0.169101	0.510110
3	ICAL, L2,S18	0.505245	0.980298	0.235735	1.012006	0.256628	0.925752	2.392929
4	ICAL, L3,S18	2.023146	4.072203	1.018944	4.218898	1.046971	4.127700	10.208976
5	ICAL, L4,S18	4.985728	9.958921	2.491093	9.866203	2.470614	9.938275	24.894346
6	ICAL, L5,S18	10.002414	20.006659	5.001430	20.023174	5.005056	20.009590	50.016725

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\060.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/1/2006 4:21:00 PM by ic_analyst

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Inhibit Integration	On	ECD_1
2	2.250	Sensitivity	0.001 "[Signal]"	ECD_1
3	2.250	Minimum Area	0.001 "[Signal]*min"	ECD_1
4	2.250	Peak Slice	0.50 s	ECD_1
5	2.500	Inhibit Integration	Off	ECD_1

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\060.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/1/2006 4:21:00 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Amount ICAL, L1,S1888,500
1	F	2.870 min	5.000 RG	External	Area	Quad	Auto		0.100000
2	CL	4.217 min	5.000 RG	External	Area	Quad	Auto		0.200000
3	NO2N	5.010 min	5.000 RG	External	Area	Quad	Auto		0.050000
4	BR	6.363 min	5.000 RG	External	Area	Quad	Auto		0.200000
5	NO3N	7.183 min	10.000 RG	External	Area	Quad	Auto		0.050000
6	*PO4*	*9.350 min*	*10.000 RG*	*External*	*Area*	*Quad*	*Auto*		*0.200000*
7	SO4	11.167 min	10.000 RG	External	Area	Quad	Auto		0.500000

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\060.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/1/2006 4:21:00 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Amount ICAL, L2,S1888,100	Amount ICAL, L3,S1888,25	Amount ICAL, L4,S1888,10	Amount ICAL, L5,S1888,5	Comment
1	F	2.870 min	0.500000	2.000000	5.000000	10.000000	
2	CL	4.217 min	1.000000	4.000000	10.000000	20.000000	
3	NO2N	5.010 min	0.250000	1.000000	2.500000	5.000000	
4	BR	6.363 min	1.000000	4.000000	10.000000	20.000000	
5	NO3N	7.183 min	0.250000	1.000000	2.500000	5.000000	
6	*PO4*	*9.350 min*	*1.000000*	*4.000000*	*10.000000*	*20.000000*	
7	SO4	11.167 min	2.500000	10.000000	25.000000	50.000000	

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\060.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/1/2006 4:21:00 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Resp.Fact.	Amount ICAL, L1,S1888,500	Amount ICAL, L2,S1888,100	Amount ICAL, L3,S1888,25	Amount ICAL, L4,S1888,10
1	F	2.870 min	1.000000	0.100000	0.500000	2.000000	5.000000
2	CL	4.217 min	1.000000	0.200000	1.000000	4.000000	10.000000
3	NO2N	5.010 min	1.000000	0.050000	0.250000	1.000000	2.500000
4	BR	6.363 min	1.000000	0.200000	1.000000	4.000000	10.000000
5	NO3N	7.183 min	1.000000	0.050000	0.250000	1.000000	2.500000
6	*PO4*	*9.350 min*	*1.000000*	*0.200000*	*1.000000*	*4.000000*	*10.000000*
7	SO4	11.167 min	1.000000	0.500000	2.500000	10.000000	25.000000

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\060.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/1/2006 4:21:00 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Amount ICAL, L5,S1888,5	Comment
1	F	2.870 min	10.000000	
2	CL	4.217 min	20.000000	
3	NO2N	5.010 min	5.000000	
4	BR	6.363 min	20.000000	
5	NO3N	7.183 min	5.000000	
6	*PO4*	*9.350 min*	*20.000000*	
7	SO4	11.167 min	50.000000	

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Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\060.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/1/2006 4:21:00 PM by ic_analyst

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time
1	☒	ICAL, L1,S1888,500	2	179	25.0	1.0000	1.0000	1.0000	3/1/2006 3:02:19 PM
2	☒	ICAL, L2,S1888,100	3	179	25.0	1.0000	1.0000	1.0000	3/1/2006 3:20:44 PM
3	☒	ICAL, L3,S1888,25	4	180	25.0	1.0000	1.0000	1.0000	3/1/2006 3:39:08 PM
4	☒	ICAL, L4,S1888,10	5	181	25.0	1.0000	1.0000	1.0000	3/1/2006 3:57:33 PM
5	☒	ICAL, L5,S1888,5	6	182	25.0	1.0000	1.0000	1.0000	3/1/2006 4:15:58 PM

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\060.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/1/2006 4:21:00 PM by ic_analyst

Calibration:

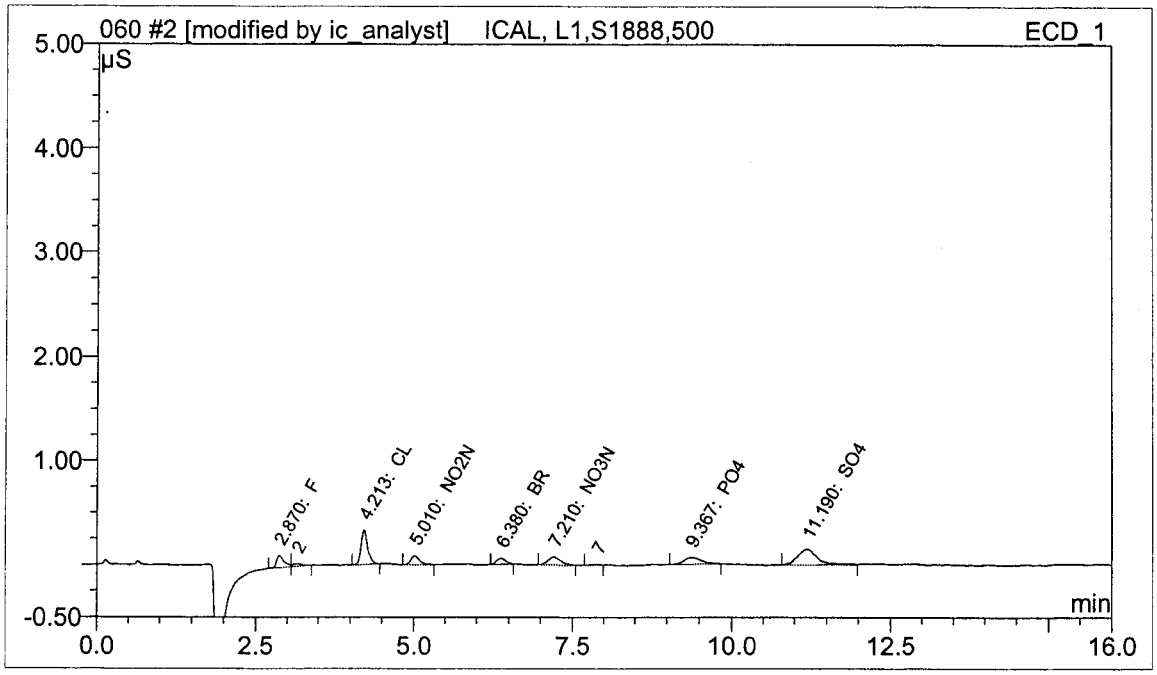
Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Calib. Comment
1	☒	ICAL, L1,S1888,500	Ok
2	☒	ICAL, L2,S1888,100	Ok
3	☒	ICAL, L3,S1888,25	Ok
4	☒	ICAL, L4,S1888,10	Ok
5	☒	ICAL, L5,S1888,5	Ok

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L1,S1888,500	**Sample No.:**	2
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:02 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.017161	0.0885	0.0885	
3	CL	4.213	0.040074	0.2683	0.2683	
4	NO2N	5.010	0.013455	0.0458	0.0458	
5	BR	6.380	0.009416	0.1526	0.1526	
6	NO3N	7.210	0.017801	0.0479	0.0479	
8	PO4	9.367	0.019729	0.1691	0.1691	
9	SO4	11.190	0.053320	0.5101	0.5101	



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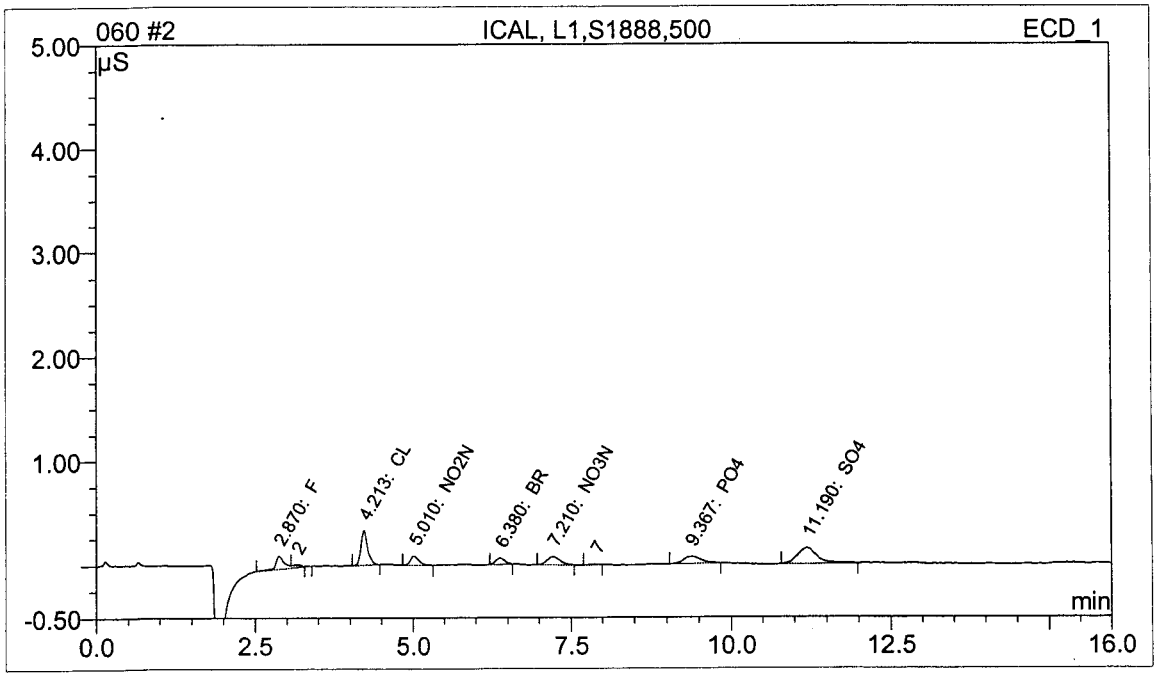
Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L1,S1888,500	**Sample No.:**	2
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:02 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.023606	0.1216	0.1216	
3	CL	4.213	0.040074	0.2683	0.2683	
4	NO2N	5.010	0.013455	0.0458	0.0458	
5	BR	6.380	0.009416	0.1526	0.1526	
6	NO3N	7.210	0.017801	0.0479	0.0479	
8	PO4	9.367	0.019729	0.1691	0.1691	
9	SO4	11.190	0.053320	0.5101	0.5101	



ANALYZED BY: _____

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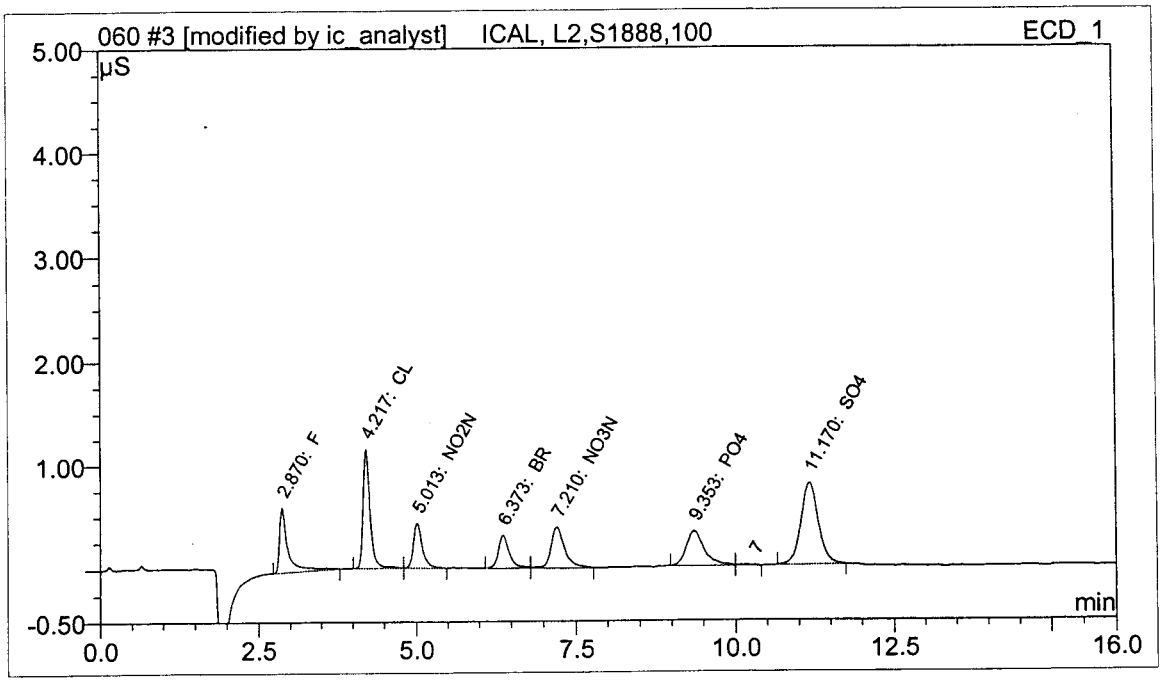
ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L2,S1888,100	**Sample No.:**	3
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:20 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.098503	0.5052	0.5052	
2	CL	4.217	0.147367	0.9803	0.9803	
3	NO2N	5.013	0.069403	0.2357	0.2357	
4	BR	6.373	0.062700	1.0120	1.0120	
5	NO3N	7.210	0.095842	0.2566	0.2566	
6	PO4	9.353	0.108648	0.9258	0.9258	
8	SO4	11.170	0.251558	2.3929	2.3929	



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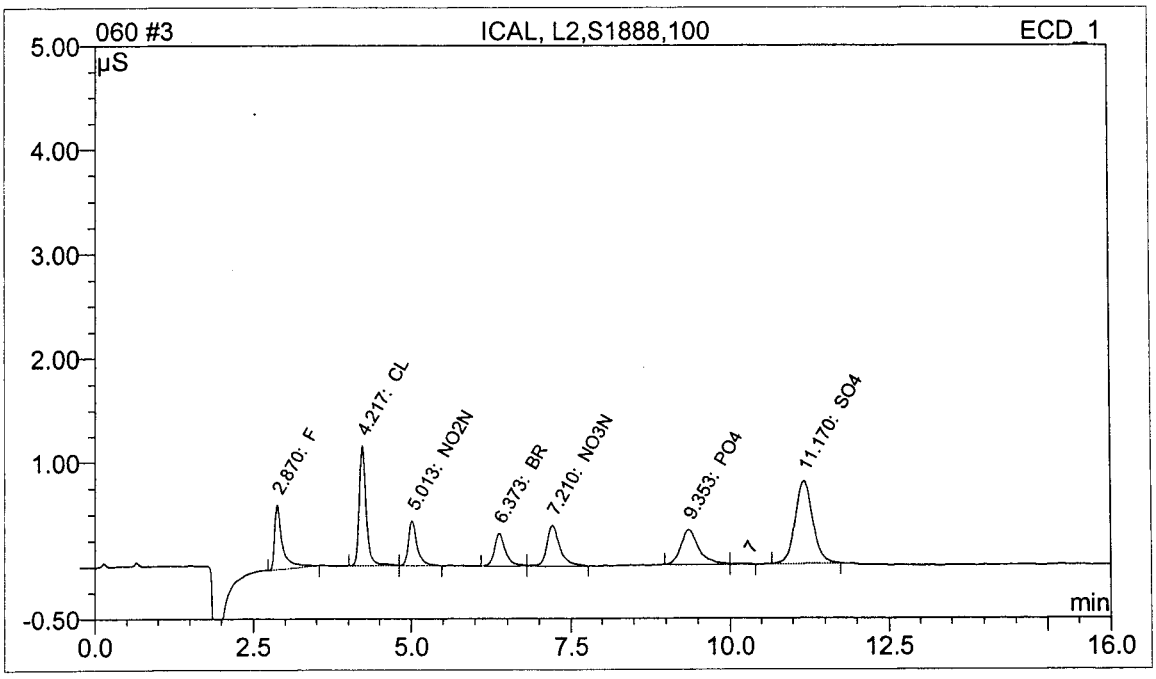
Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L2,S1888,100	**Sample No.:**	3
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:20 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.089672	0.4613	0.4613	
2	CL	4.217	0.147367	0.9803	0.9803	
3	NO2N	5.013	0.069403	0.2357	0.2357	
4	BR	6.373	0.062700	1.0120	1.0120	
5	NO3N	7.210	0.095842	0.2566	0.2566	
6	PO4	9.353	0.108648	0.9258	0.9258	
8	SO4	11.170	0.251558	2.3929	2.3929	



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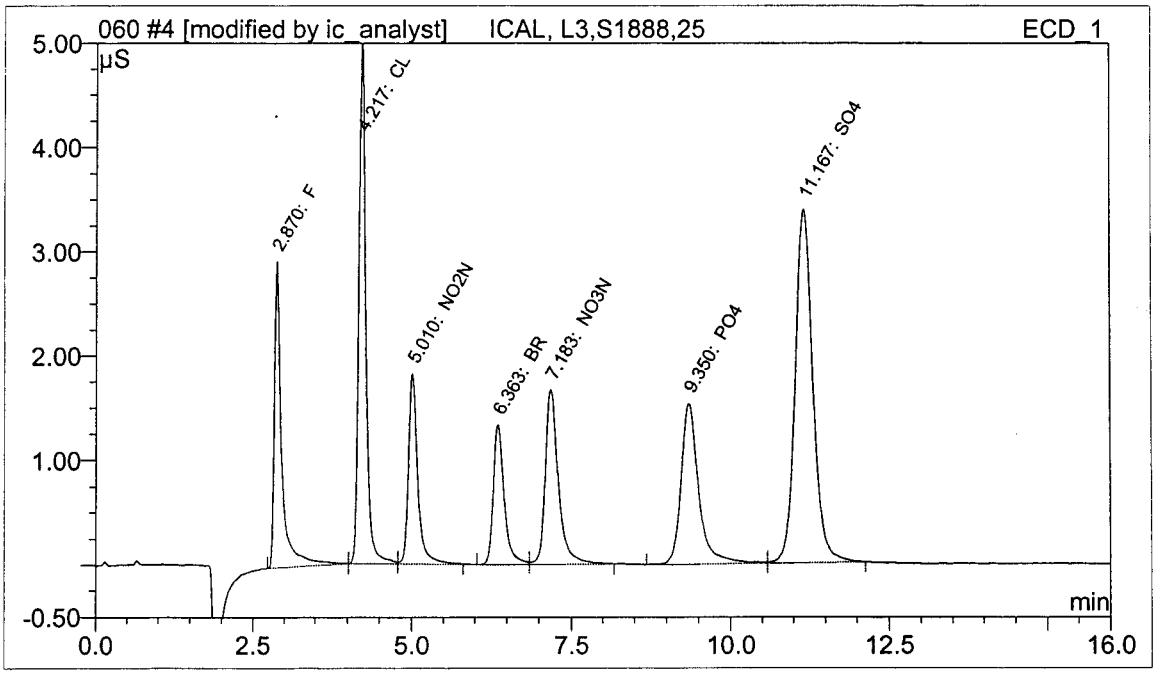
Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L3,S1888,25	**Sample No.:**	4
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:39 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.402286	2.0231	2.0231	
2	CL	4.217	0.629116	4.0722	4.0722	
3	NO2N	5.010	0.303748	1.0189	1.0189	
4	BR	6.363	0.265105	4.2189	4.2189	
5	NO3N	7.183	0.397785	1.0470	1.0470	
6	PO4	9.350	0.496547	4.1277	4.1277	
7	SO4	11.167	1.098657	10.2090	10.2090	



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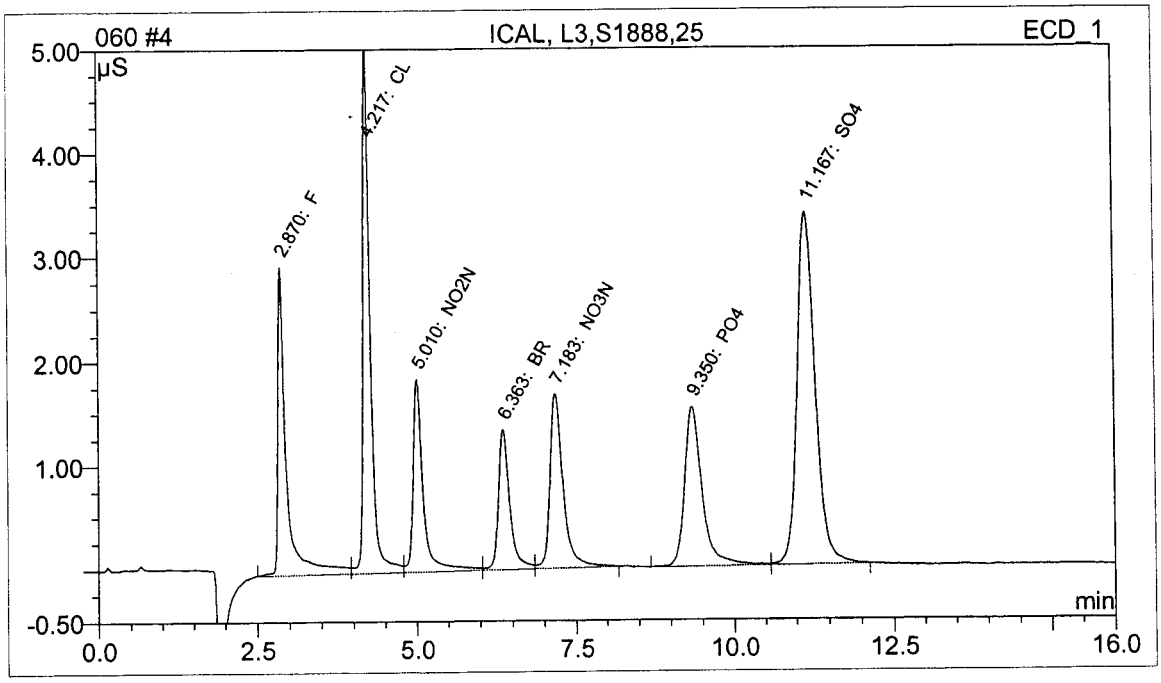
Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L3,S1888,25	**Sample No.:**	4
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:39 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.455269	2.2018	2.2018	
2	CL	4.217	0.670131	4.2507	4.2507	
3	NO2N	5.010	0.344377	1.1110	1.1110	
4	BR	6.363	0.276408	4.3412	4.3412	
5	NO3N	7.183	0.404782	1.0595	1.0595	
6	PO4	9.350	0.496547	4.1277	4.1277	
7	SO4	11.167	1.098657	10.2090	10.2090	



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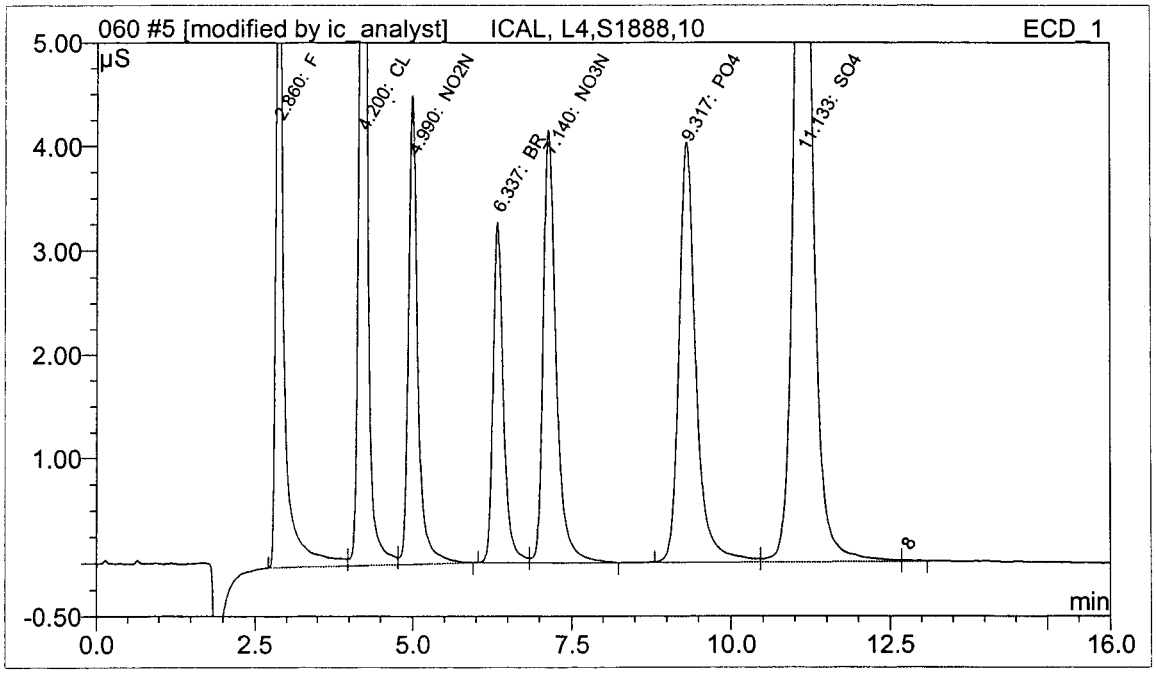
Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L4,S1888,10	**Sample No.:**	5
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:57 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.860	1.029135	4.9857	4.9857	
2	CL	4.200	1.617474	9.9589	9.9589	
3	NO2N	4.990	0.759872	2.4911	2.4911	
4	BR	6.337	0.635291	9.8662	9.8662	
5	NO3N	7.140	0.967493	2.4706	2.4706	
6	PO4	9.317	1.248459	9.9383	9.9383	
7	SO4	11.133	2.795566	24.8943	24.8943	



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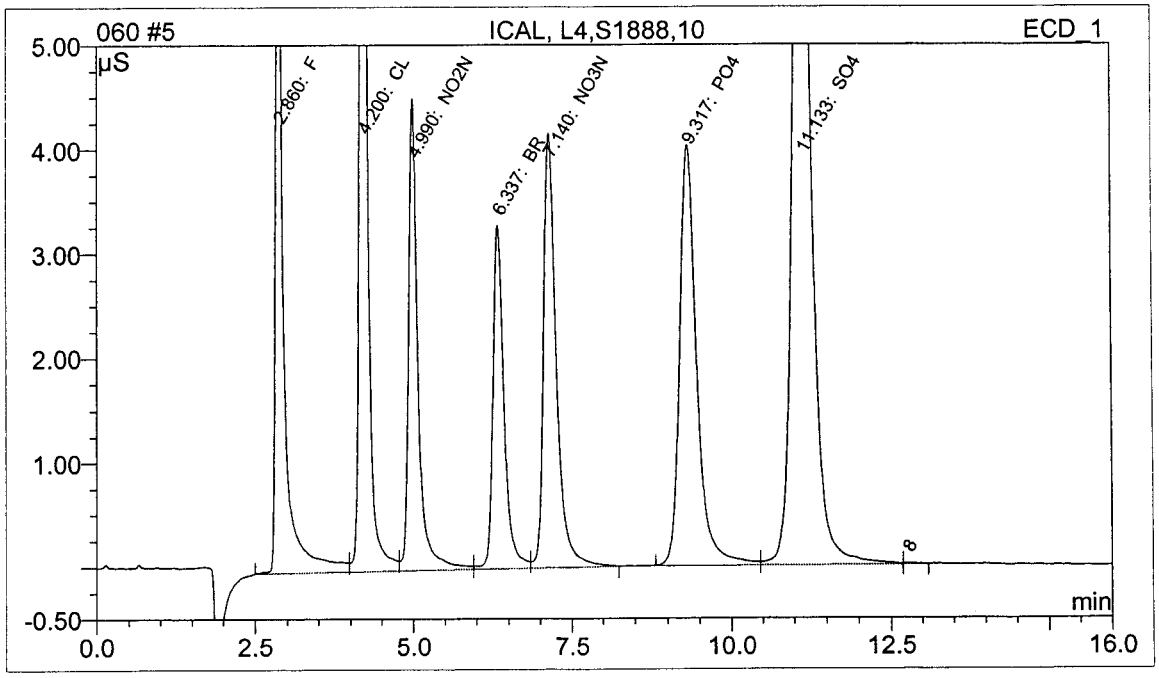
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L4,S1888,10	**Sample No.:**	5
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:57 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.860	1.056871	5.0244	5.0244	
2	CL	4.200	1.636258	9.9916	9.9916	
3	NO2N	4.990	0.792664	2.5227	2.5227	
4	BR	6.337	0.658007	9.9696	9.9696	
5	NO3N	7.140	0.980796	2.4805	2.4805	
6	PO4	9.317	1.248459	9.9383	9.9383	
7	SO4	11.133	2.795566	24.8943	24.8943	



ANALYZED BY: _____

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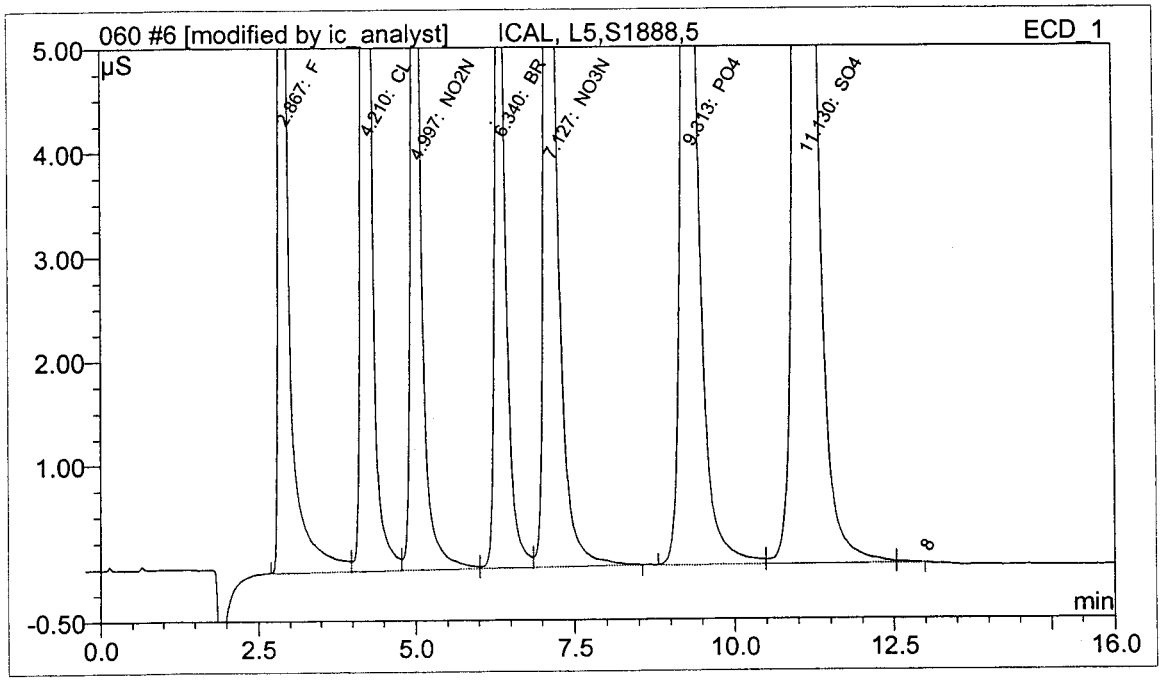
Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L5,S1888,5	**Sample No.:**	6
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:15 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.867	2.192959	10.0024	10.0024	
2	CL	4.210	3.519967	20.0067	20.0067	
3	NO2N	4.997	1.584757	5.0014	5.0014	
4	BR	6.340	1.345233	20.0232	20.0232	
5	NO3N	7.127	2.063887	5.0051	5.0051	
6	PO4	9.313	2.698316	20.0096	20.0096	
7	SO4	11.130	6.017213	50.0167	50.0167	



ANALYZED BY: _____

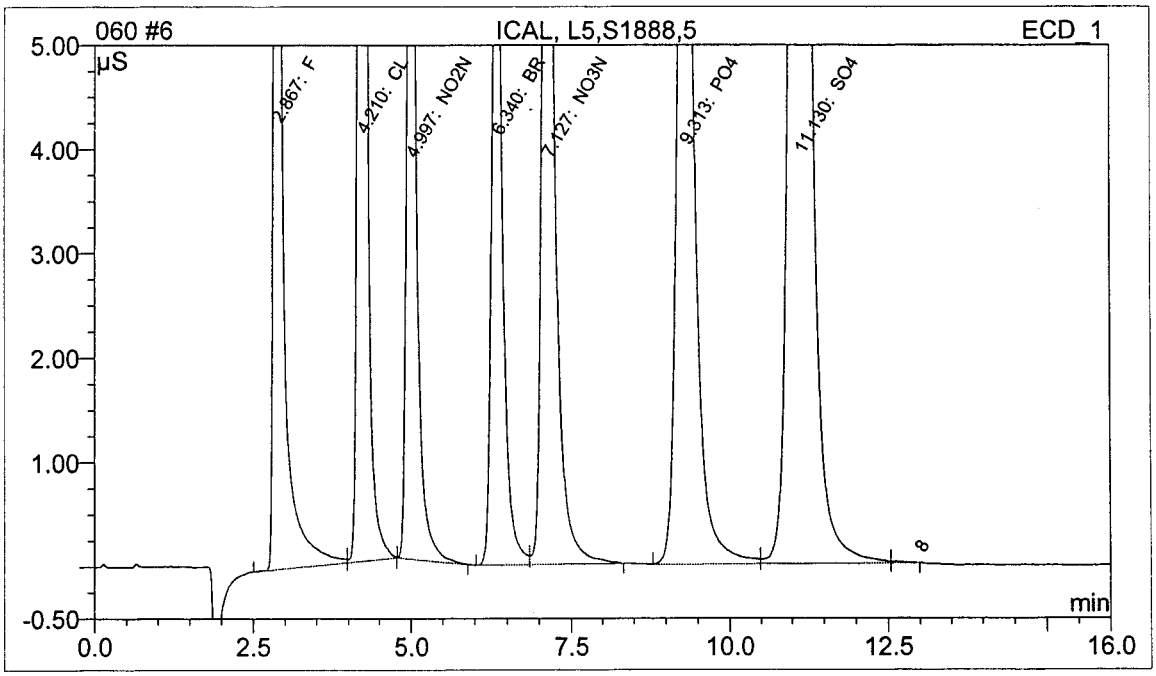
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L5,S1888,5	**Sample No.:**	6
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:15 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.867	2.155657	10.0007	10.0007	
2	CL	4.210	3.453075	20.0031	20.0031	
3	NO2N	4.997	1.510616	4.9988	4.9988	
4	BR	6.340	1.331781	20.0216	20.0216	
5	NO3N	7.127	2.045893	5.0047	5.0047	
6	PO4	9.313	2.698316	20.0096	20.0096	
7	SO4	11.130	6.017213	50.0167	50.0167	



ANALYZED BY: REVIEWED BY:

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626087283007 File : 060_7.000 Time : 01-MAR-2006 16:34
Cal : 626087283001 Caldate: 01-MAR-2006
Standards: S1085 (5X)

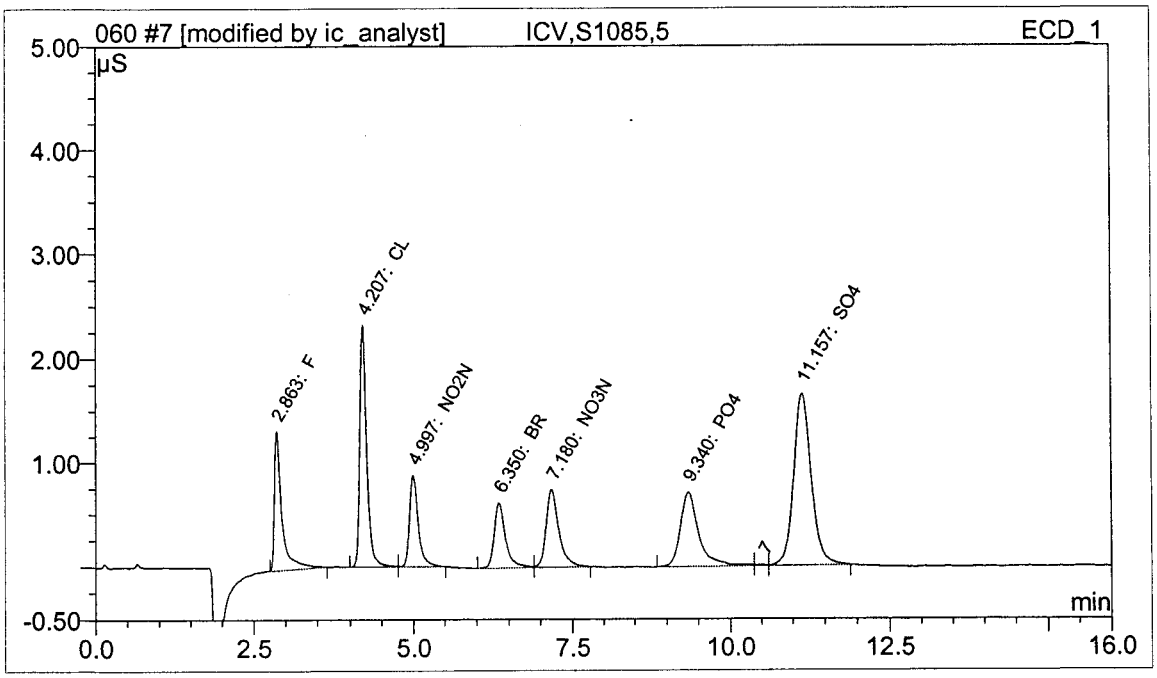
Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Fluoride	0.1990	0.1858	1.000	0.9473	mg/L	-5	10	
Chloride	0.1686	0.1455	2.000	1.920	mg/L	-4	10	
Nitrogen, Nitrite	0.2943	0.2873	0.5000	0.4860	mg/L	-3	10	
Bromide	0.0614	0.0638	2.000	2.050	mg/L	2	10	
Nitrogen, Nitrate	0.3874	0.3456	0.5000	0.4606	mg/L	-8	10	
Orthophosphate (as P)	0.1182	0.1201	2.000	2.029	mg/L	1	10	
Sulfate	0.1099	0.1070	5.000	5.047	mg/L	1	10	

MRS 3/2/06

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:34 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.863	0.185760	0.9473	0.9473	
2	CL	4.207	0.291093	1.9202	1.9202	
3	NO2N	4.997	0.143651	0.4860	0.4860	
4	BR	6.350	0.127568	2.0496	2.0496	
5	NO3N	7.180	0.172776	0.4606	0.4606	
6	PO4	9.340	0.240207	2.0292	2.0292	
8	SO4	11.157	0.534812	5.0468	5.0468	



ANALYZED BY: _____

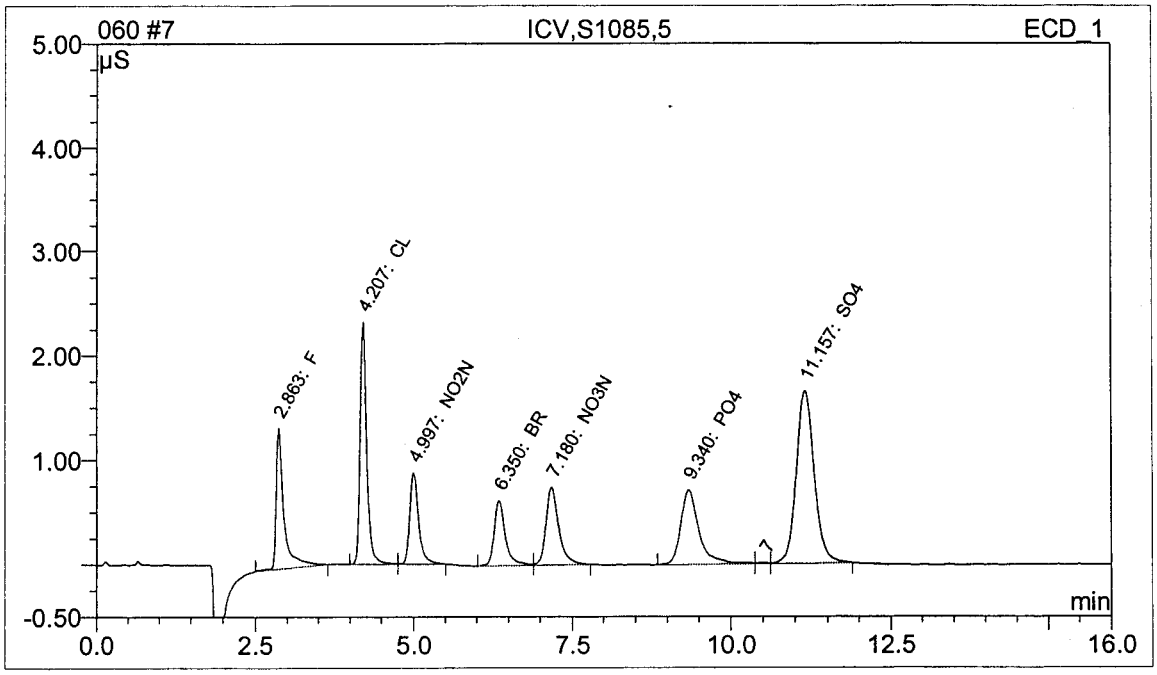
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:34 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.863	0.193974	0.9887	0.9887	
2	CL	4.207	0.291093	1.9202	1.9202	
3	NO2N	4.997	0.143651	0.4860	0.4860	
4	BR	6.350	0.127568	2.0496	2.0496	
5	NO3N	7.180	0.172776	0.4606	0.4606	
6	PO4	9.340	0.240207	2.0292	2.0292	
8	SO4	11.157	0.534812	5.0468	5.0468	



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Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 300.0

Inst : IC03
Seqnum : 626087283001 File : 060_1.000
Cal : 626044186001 Caldate: 30-JAN-2006

IDF : 1.0
Time : 01-MAR-2006 14:43

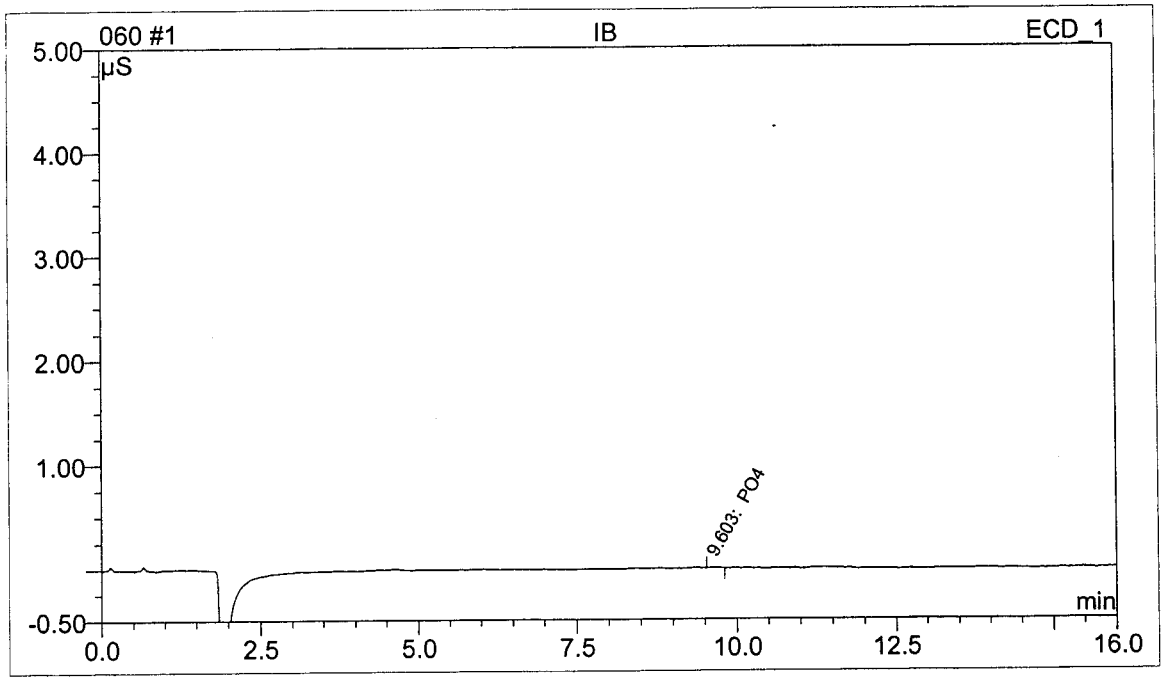
Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Bromide	ND	0.2000	0.02767	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Orthophosphate (as P)	ND	0.2000	0.03686	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

MRS 3/2/06

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	IB	**Sample No.:**	1
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 2:43 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
n.a.	F	n.a.	n.a.	n.a.	n.a.	
n.a.	CL	n.a.	n.a.	n.a.	n.a.	
n.a.	NO2N	n.a.	n.a.	n.a.	n.a.	
n.a.	BR	n.a.	n.a.	n.a.	n.a.	
n.a.	NO3N	n.a.	n.a.	n.a.	n.a.	
1	PO4	9.603	0.001313	0.0113	0.0113	
n.a.	SO4	n.a.	n.a.	n.a.	n.a.	



ANALYZED BY: _____

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Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626087283008 File : 060_8.000 Time : 01-MAR-2006 16:52
Cal : 626087283001 Caldate: 01-MAR-2006

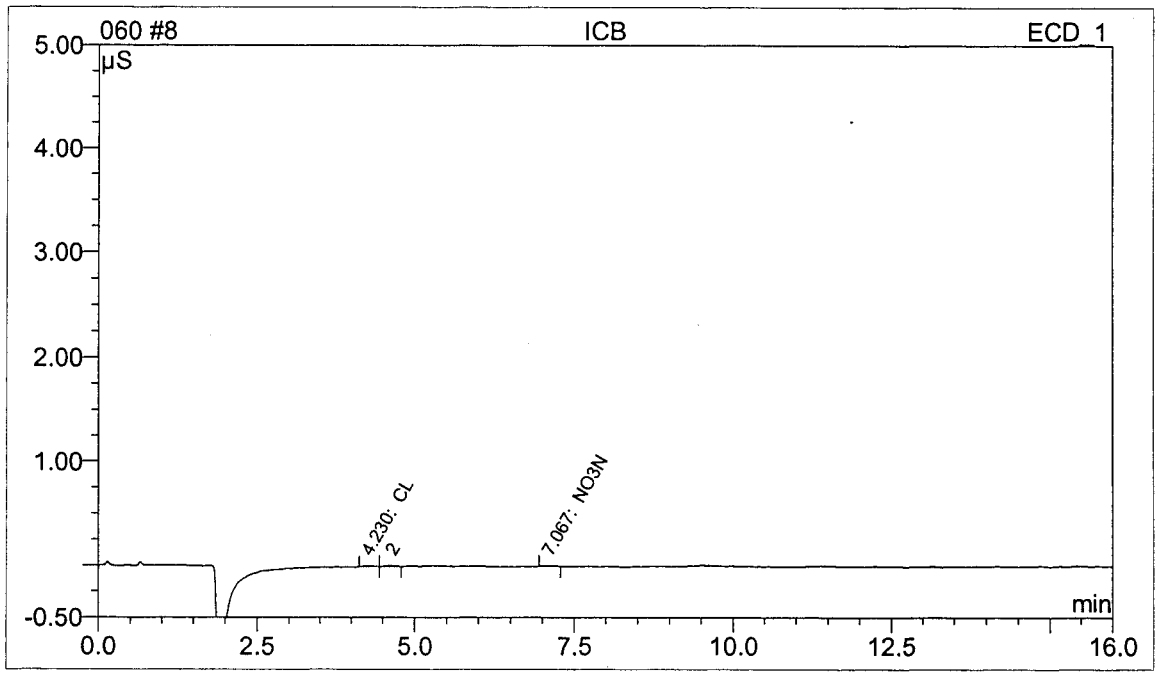
Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Bromide	ND	0.2000	0.02767	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Orthophosphate (as P)	ND	0.2000	0.03686	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

MAS 3/2/06

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICB	**Sample No.:**	8
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:52 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
n.a.	F	n.a.	n.a.	n.a.	n.a.	
1	CL	4.230	0.001630	0.0109	0.0109	
n.a.	NO2N	n.a.	n.a.	n.a.	n.a.	
n.a.	BR	n.a.	n.a.	n.a.	n.a.	
3	NO3N	7.067	0.001584	0.0043	0.0043	
n.a.	PO4	n.a.	n.a.	n.a.	n.a.	
n.a.	SO4	n.a.	n.a.	n.a.	n.a.	



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CONTINUING CALIBRATION SUMMARY FOR 185408 IC Water
Curtis & Tompkins Laboratories

Analyte: Fluoride

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC03	P	626098701007	09-MAR-2006 12:12	626087283001	01-MAR-2006	0.1990	0.1878	0.5000	0.4819	mg/L	-4	10	
IC03	P	626098701023	09-MAR-2006 18:58	626087283001	01-MAR-2006	0.1990	0.2015	2.0000	2.0268	mg/L	1	10	
IC03	P	626098701041	09-MAR-2006 23:53	626087283001	01-MAR-2006	0.1990	0.2187	5.0000	5.2775	mg/L	6	10	
IC03	P	626098701058	10-MAR-2006 04:32	626087283001	01-MAR-2006	0.1990	0.1765	0.5000	0.4531	mg/L	-9	10	

CONTINUING CALIBRATION SUMMARY FOR 185408 IC Water
Curtis & Tompkins Laboratories

Analyte: Chloride

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC03	P	626098701007	09-MAR-2006 12:12	626087283001	01-MAR-2006	0.1686	0.1457	1.0000	0.9690	mg/L	-3	10	
IC03	P	626098701023	09-MAR-2006 18:58	626087283001	01-MAR-2006	0.1686	0.1501	4.0000	3.8923	mg/L	-3	10	
IC03	P	626098701041	09-MAR-2006 23:53	626087283001	01-MAR-2006	0.1686	0.1631	10.000	10.036	mg/L	0	10	
IC03	P	626098701058	10-MAR-2006 04:32	626087283001	01-MAR-2006	0.1686	0.1451	1.0000	0.9653	mg/L	-3	10	
IC03	P	626098701063	10-MAR-2006 05:54	626087283001	01-MAR-2006	0.1686	0.1565	4.0000	4.0526	mg/L	1	10	

CONTINUING CALIBRATION SUMMARY FOR 185408 IC Water
Curtis & Tompkins Laboratories

Analyte: Nitrogen, Nitrite

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC03	P	626098701007	09-MAR-2006 12:12	626087283001	01-MAR-2006	0.2943	0.2723	0.2500	0.2313	mg/L	-7	10	
IC03	P	626098701023	09-MAR-2006 18:58	626087283001	01-MAR-2006	0.2943	0.2918	1.0000	0.9794	mg/L	-2	10	
IC03	P	626098701041	09-MAR-2006 23:53	626087283001	01-MAR-2006	0.2943	0.3069	2.5000	2.5147	mg/L	1	10	
IC03	P	626098701058	10-MAR-2006 04:32	626087283001	01-MAR-2006	0.2943	0.2824	0.2500	0.2397	mg/L	-4	10	

CONTINUING CALIBRATION SUMMARY FOR 185408 IC Water
Curtis & Tompkins Laboratories

Analyte: Nitrogen, Nitrate

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC03	P	626098701007	09-MAR-2006 12:12	626087283001	01-MAR-2006	0.3874	0.3440	0.2500	0.2304	mg/L	-8	10	
IC03	P	626098701023	09-MAR-2006 18:58	626087283001	01-MAR-2006	0.3874	0.3813	1.0000	1.0046	mg/L	0	10	
IC03	P	626098701041	09-MAR-2006 23:53	626087283001	01-MAR-2006	0.3874	0.3939	2.5000	2.5125	mg/L	1	10	
IC03	P	626098701058	10-MAR-2006 04:32	626087283001	01-MAR-2006	0.3874	0.3651	0.2500	0.2445	mg/L	-2	10	

CONTINUING CALIBRATION SUMMARY FOR 185408 IC Water
Curtis & Tompkins Laboratories

Analyte: Sulfate

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC03	P	626098701007	09-MAR-2006 12:12	626087283001	01-MAR-2006	0.1099	0.1020	2.5000	2.4259	mg/L	-3	10	
IC03	P	626098701023	09-MAR-2006 18:58	626087283001	01-MAR-2006	0.1099	0.1059	10.000	9.8541	mg/L	-1	10	
IC03	P	626098701041	09-MAR-2006 23:53	626087283001	01-MAR-2006	0.1099	0.1132	25.000	25.179	mg/L	1	10	
IC03	P	626098701058	10-MAR-2006 04:32	626087283001	01-MAR-2006	0.1099	0.1057	2.5000	2.5122	mg/L	0	10	

CURTIS & TOMPKINS BLANK USER REPORT FOR 185408 IC Water
EPA 300.0

Inst	: IC03	Lab ID	: QC330872		
Seqnum	: 626098701008.1	Matrix	: Water		
File	: 068_8.000	Batch	: 111161	Time	: 09-MAR-2006 12:28
IDF	: 1.0	PDF	: 1.0	Units	: mg/L
Cal	: 626087283001	Caldate	: 01-MAR-2006		

Analyte	Result	RL	Flags
Fluoride	ND	0.10	
Chloride	ND	0.20	
Nitrogen, Nitrite	ND	0.05	
Nitrogen, Nitrate	ND	0.05	
Sulfate	ND	0.50	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185408 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626098701024 File : 068_24.000 Time : 09-MAR-2006 19:14
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185408 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626098701042 File : 068_42.000 Time : 10-MAR-2006 00:09
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185408 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626098701059 File : 068_59.000 Time : 10-MAR-2006 04:48
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185408 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626098701064 File : 068_64.000 Time : 10-MAR-2006 06:10
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

SEQUENCE SUMMARY FOR 185408 IC Water
Curtis & Tompkins Laboratories

Sequence: 626087283 Instrument: IC03 Ion Chromatograph Begun: 01-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	060_1.00	IB				01-MAR-2006 14:43	1.0		25				
002	060_2.00	ICAL	L1			01-MAR-2006 15:02	1.0					1	
003	060_3.00	ICAL	L2			01-MAR-2006 15:20	1.0					1	
004	060_4.00	ICAL	L3			01-MAR-2006 15:39	1.0					1	
005	060_5.00	ICAL	L4			01-MAR-2006 15:57	1.0					1	
006	060_6.00	ICAL	L5			01-MAR-2006 16:15	1.0					1	
007	060_7.00	ICV				01-MAR-2006 16:34	1.0		25			2	
008	060_8.00	ICB				01-MAR-2006 16:52	1.0		25				

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Stds used: 1=S1888 2=S1085

SEQUENCE SUMMARY FOR 185408 IC Water
Curtis & Tompkins Laboratories

Sequence: 626098701 Instrument: IC03 Ion Chromatograph Begun: 09-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
007	068_7.00	CCV	L	111161		09-MAR-2006 12:12	1.0		25			1	
008	068_8.00	CCB/MB	QC330872	111161	Water	09-MAR-2006 12:28	1.0		25				
009	068_9.00	BS	QC330873	111161	Water	09-MAR-2006 12:45	1.0		25			1	
010	068_10.0	BSD	QC330874	111161	Water	09-MAR-2006 13:01	1.0		25			1	
011	068_11.0	MSS	185408-002	111161	Water	09-MAR-2006 15:41	25.0		25				
012	068_12.0	MSS	185408-010	111161	Water	09-MAR-2006 15:57	5.0		25				
013	068_13.0	MSS	185408-008	111161	Water	09-MAR-2006 16:14	5.0		25				
014	068_14.0	X	BLK	111161		09-MAR-2006 16:30	1.0						
015	068_15.0	SAMPLE	185408-001	111161	Water	09-MAR-2006 16:46	1.0	3	25				3:SO4=89.0077
016	068_16.0	X	BLK	111161		09-MAR-2006 17:03	1.0						
017	068_17.0	MSS	185408-002	111161	Water	09-MAR-2006 17:19	1.0	1	25				1:CL=68.3895
018	068_18.0	X	BLK	111161		09-MAR-2006 17:36	1.0						
019	068_19.0	SAMPLE	185408-003	111161	Water	09-MAR-2006 17:52	1.0	2	25				2:CL=72.6017
020	068_20.0	X	BLK	111161		09-MAR-2006 18:08	1.0						
021	068_21.0	SAMPLE	185408-004	111161	Water	09-MAR-2006 18:25	1.0	1	25				1:CL=31.8571
022	068_22.0	X	BLK	111161		09-MAR-2006 18:41	1.0						
023	068_23.0	CCV	M	111161		09-MAR-2006 18:58	1.0		25			1	
024	068_24.0	CCB		111161		09-MAR-2006 19:14	1.0		25				
025	068_25.0	X	CCV	111161		09-MAR-2006 19:30	1.0					1	
026	068_26.0	X	CCB	111161		09-MAR-2006 19:47	1.0						
027	068_27.0	MS	QC330875	111161	Water	09-MAR-2006 20:03	25.0		25			1	
028	068_28.0	MSD	QC330876	111161	Water	09-MAR-2006 20:20	25.0		25			1	
029	068_29.0	MS	QC330877	111161	Water	09-MAR-2006 20:36	5.0		25			1	
030	068_30.0	MSD	QC330878	111161	Water	09-MAR-2006 20:53	5.0		25			1	
031	068_31.0	MS	QC330879	111161	Water	09-MAR-2006 21:09	10.0		25			1	
032	068_32.0	MSD	QC330880	111161	Water	09-MAR-2006 21:25	10.0		25			1	
033	068_33.0	SAMPLE	185408-005	111161	Water	09-MAR-2006 21:42	1.0	1	25				1:CL=32.9121
034	068_34.0	X	BLK	111161		09-MAR-2006 21:58	1.0						
035	068_35.0	SAMPLE	185408-006	111161	Water	09-MAR-2006 22:15	1.0	2	25				2:CL=49.6086
036	068_36.0	X	BLK	111161		09-MAR-2006 22:31	1.0						
037	068_37.0	SAMPLE	185408-007	111161	Water	09-MAR-2006 22:47	1.0	2	25				2:CL=49.5048

Stds used: 1=S1888

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SEQUENCE SUMMARY FOR 185408 IC Water
Curtis & Tompkins Laboratories

Sequence: 626098701 Instrument: IC03 Ion Chromatograph Begun: 09-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
038	068_38.0	X	BLK	111161		09-MAR-2006 23:04	1.0						
039	068_39.0	MSS	185408-008	111161	Water	09-MAR-2006 23:20	1.0	1	25				1:CL=28.8451
040	068_40.0	X	BLK	111161		09-MAR-2006 23:37	1.0						
041	068_41.0	CCV	H	111161		09-MAR-2006 23:53	1.0		25			1	
042	068_42.0	CCB		111161		10-MAR-2006 00:09	1.0		25				
043	068_43.0	X	CCV	111161		10-MAR-2006 00:26	1.0					1	
044	068_44.0	X	CCB	111161		10-MAR-2006 00:42	1.0						
045	068_45.0	SAMPLE	185408-009	111161	Water	10-MAR-2006 00:59	1.0	1	25				1:CL=28.8312
046	068_46.0	X	BLK	111161		10-MAR-2006 01:15	1.0						
047	068_47.0	MSS	185408-010	111161	Water	10-MAR-2006 01:31	1.0	2	25				1:CL=64.9797
048	068_48.0	X	BLK	111161		10-MAR-2006 01:48	1.0						
049	068_49.0	SAMPLE	185408-011	111161	Water	10-MAR-2006 02:04	1.0	1	25				1:CL=64.9960
050	068_50.0	X	BLK	111161		10-MAR-2006 02:21	1.0						
051	068_51.0	SAMPLE	185408-001	111161	Water	10-MAR-2006 02:37	10.0		25				
052	068_52.0	SAMPLE	185408-003	111161	Water	10-MAR-2006 02:54	10.0		25				
053	068_53.0	SAMPLE	185408-004	111161	Water	10-MAR-2006 03:10	10.0		25				
054	068_54.0	SAMPLE	185408-005	111161	Water	10-MAR-2006 03:26	10.0		25				
055	068_55.0	SAMPLE	185408-006	111161	Water	10-MAR-2006 03:43	10.0		25				
056	068_56.0	SAMPLE	185408-007	111161	Water	10-MAR-2006 03:59	10.0		25				
057	068_57.0	SAMPLE	185408-009	111161	Water	10-MAR-2006 04:16	5.0		25				
058	068_58.0	CCV	L	111161		10-MAR-2006 04:32	1.0	1	25			1	
059	068_59.0	CCB		111161		10-MAR-2006 04:48	1.0		25				
060	068_60.0	X	CCV	111161		10-MAR-2006 05:05	1.0					1	
061	068_61.0	X	CCB	111161		10-MAR-2006 05:21	1.0						
062	068_62.0	SAMPLE	185408-011	111161	Water	10-MAR-2006 05:38	5.0		25				
063	068_63.0	CCV	M	111161		10-MAR-2006 05:54	1.0	1	25			1	
064	068_64.0	CCB		111161		10-MAR-2006 06:10	1.0		25				
065	068_65.0	X	CCV	111161		10-MAR-2006 06:27	1.0					1	
066	068_66.0	X	CCB	111161		10-MAR-2006 06:43	1.0						
067	068_67.0	X	SHUTDOWN	111161		10-MAR-2006 07:00	1.0						

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Stds used: 1=S1888

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185408 IC Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	CL	NO2N	NO3N	SO4
185408-001	IC03	03/09/06 16:46	1.0	+		+		
185408-001	IC03	03/10/06 02:37	10.0		+		+	+
185408-002	IC03	03/09/06 15:41	25.0		+			
185408-002	IC03	03/09/06 17:19	1.0	+		+	+	+
185408-003	IC03	03/09/06 17:52	1.0	+		+	+	
185408-003	IC03	03/10/06 02:54	10.0		+			+
185408-004	IC03	03/09/06 18:25	1.0	+		+	+	+
185408-004	IC03	03/10/06 03:10	10.0		+			
185408-005	IC03	03/09/06 21:42	1.0	+		+	+	+
185408-005	IC03	03/10/06 03:26	10.0		+			
185408-006	IC03	03/09/06 22:15	1.0	+		+		+
185408-006	IC03	03/10/06 03:43	10.0		+		+	
185408-007	IC03	03/09/06 22:47	1.0	+		+		+
185408-007	IC03	03/10/06 03:59	10.0		+		+	
185408-008	IC03	03/09/06 16:14	5.0		+			
185408-008	IC03	03/09/06 23:20	1.0	+		+	+	+
185408-009	IC03	03/10/06 00:59	1.0	+		+	+	+
185408-009	IC03	03/10/06 04:16	5.0		+			
185408-010	IC03	03/09/06 15:57	5.0		+			
185408-010	IC03	03/10/06 01:31	1.0	+		+	+	+
185408-011	IC03	03/10/06 02:04	1.0	+		+	+	+
185408-011	IC03	03/10/06 05:38	5.0		+			
QC330872	IC03	03/09/06 12:28	1.0	+	+	+	+	+
QC330873	IC03	03/09/06 12:45	1.0	+	+	+	+	+
QC330874	IC03	03/09/06 13:01	1.0	+	+	+	+	+
QC330875	IC03	03/09/06 20:03	25.0	+	+	+	+	+
QC330876	IC03	03/09/06 20:20	25.0	+	+	+	+	+
QC330877	IC03	03/09/06 20:36	5.0	+	+	+	+	+
QC330878	IC03	03/09/06 20:53	5.0	+	+	+	+	+

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185408 IC Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	CL	NO2N	NO3N	SO4	
QC330879	IC03	03/09/06 21:09	10.0	+	+	+	+	+	
QC330880	IC03	03/09/06 21:25	10.0	+	+	+	+	+	

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111161
Date Started: 09-MAR-2006
Batched by : Micah Smith

Analysis : N/A
Bgroup : IC
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185408-001			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	21-MAR-2006
185408-002			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	21-MAR-2006
185408-003			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	21-MAR-2006
185408-004			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	21-MAR-2006
185408-005			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	21-MAR-2006
185408-006			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	21-MAR-2006
185408-007			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	21-MAR-2006
185408-008			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	21-MAR-2006
185408-009			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	21-MAR-2006
185408-010			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	21-MAR-2006
185408-011			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	21-MAR-2006
QC330872	BLANK			Water		
QC330873	BS			Water		
QC330874	BSD			Water		
QC330875	MS	of 185408-002		Water		
QC330876	MSD	of 185408-002		Water		
QC330877	MS	of 185408-008		Water		
QC330878	MSD	of 185408-008		Water		
QC330879	MS	of 185408-010		Water		
QC330880	MSD	of 185408-010		Water		

Curtis & Tompkins, Ltd. **Water Prep Log** Ion Chromatography

Analysis: ☒ Anions EPA 300 / EPA 9056
☐ Perchlorate (ClO_4) EPA 314
☐ Cr6+ EPA 7199

Batch#: 11161
Date Started: 3/9/06
Prep Chemist: MRS

BK 2267
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	Sample #	Conductivity	Estimated Dilution Factor	Filters Used	Comments
1	185408-001 L	0.76	10x / 1x	S	
2	-002 Y	1.28	25x / 1x		MSS
3	-003 L	0.97	10x / 1x		
4	-004 L	0.90	10x / 1x		
5	-005 L	0.91	10x / 1x		
6	-006 B	0.81	10x / 1x		
7	-007 B	0.80	10x / 1x		
8	-008 Y	0.30	5x / 1x		MSS
9	-009 I	0.30	5x / 1x		
10	-010 P	0.55	5x / 1x		MSS
11	-011 F	0.56	5x / 1x		
12	Blank QC330872	N/A	1x	N/A	
13	BS QC330873				
14	BSD QC330874				
15	MS QC330875 Y		25x	S	MS of 185408-002Y
16	MSD QC330876 Y		25x		MSD of 185408-002Y
17	MS QC330877 Y		5x		MS of 185408-008Y
18	MSD QC330878 Y		5x		MSD of 185408-008Y
19	MS QC330879 P		10x		MS of 185408-010P
20	MSD QC330880 P		10x		MSD of 185408-010P

	Mfg & Lot # / Time / Program	Initials / Date
Eluent Reagent ID	100x CP 12/6/05	MRS 3/9/06
BS/BSD Spiked with 0.2 mL of :	S1888	
MS/MSD Spiked with 0.1 mL of :	S1888	
Filters Used: Ag: OnGuard II Ag	N/A	
Na: OnGuard II Na		
P: OnGuard II P		
RP: OnGuard II RP		
S: 0.20um/0.45um	Acrodisc lot #A10536299	

Date
06

MRS 3/9/06
Extraction Chemist / Date

Continued from page ____
Continued on page ____

CP 3/10/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 300.0 Water
As of 04/05/06

Analyte	Units	IC03	IC01
Fluoride	mg/L	0.023	0.018
Chloride	mg/L	0.032	0.026
Nitrogen, Nitrite	mg/L	0.012	0.0067
Bromide	mg/L	0.028	0.058
Nitrogen, Nitrate	mg/L	0.0088	0.018
Orthophosphate (as P)	mg/L	0.037	0.045
Sulfate	mg/L	0.079	0.046

Curtis & Tompkins, Ltd.

Total Cyanide

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 335.2
Analyte:	Cyanide	Batch#:	111558
Matrix:	Water	Sampled:	03/08/06
Units:	mg/L	Received:	03/09/06
Diln Fac:	1.000	Analyzed:	03/22/06

Field ID	Type	Lab ID	Result	RL
LF01GW01	SAMPLE	185408-006	ND	0.01
DUP0308063C	SAMPLE	185408-007	ND	0.01
	BLANK	QC332535	ND	0.01

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Cyanide

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 335.2
Analyte:	Cyanide	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	111558
MSS Lab ID:	185690-001	Sampled:	03/21/06
Matrix:	Water	Received:	03/21/06
Units:	mg/L	Analyzed:	03/22/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC332536	<0.01000	0.2020	0.2152	107	65-135		
MSD	QC332537		0.2020	0.2220	110	65-135	3	20
LCS	QC332538		0.2020	0.1997	99	75-125		
LCS	QC332539		0.1010	0.1062	105	75-125		

RPD= Relative Percent Difference

Analysis:	**Cyanide**	Matrix:	Water
Method:	**EPA 335.2** / SMWW 4500CN-E	Batch:	**111558**
Instrument:	HP UV-VIS Spectrometer	Prep Date:	**3/22/2006**
Wavelength:	578 nm	Analysis Date:	**3/22/2006**
SOP#:	CN_335_rv8.doc	Analyst:	DMc

INITIAL CALIBRATION DATA

Calibration Date: 7/5/05

Conc (mg/L)	ABS	RF
0.00000	-0.0009	
0.00884	0.0086	0.972851
0.01768	0.0195	1.102941
0.05304	0.0618	1.165158
0.08840	0.1033	1.168552
0.14144	0.1679	1.187076
0.17680	0.2081	1.177036
0.26520	0.3195	1.204751

Correlation Coefficient (r):	0.9999
Avg Rf:	1.139766
%RSD:	7.0

Note: Average Rf used to calculate sample results.

CONTINUING CALIBRATION DATA

	ABS	Conc (mg/L)	True (mg/L)	Recovery	CV Limits
ICV	0.1980	0.1737	0.1620	107%	90 - 110%
ICB	-0.0002	-0.0002	0.0000		
CCV	0.1954	0.1714	0.1620	106%	90 - 110%
CCB	-0.0005	-0.0004	0.0000		

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Analysis: **Cyanide**
Method: **EPA 335.2** / SMWW 4500CN-E
Instrument: HP UV-VIS Spectrometer
Wavelength: 578 nm

Matrix: Water
Batch: **111558**
Prep Date: **3/22/2006**
Analysis Date: **3/22/2006**
Analyst: DMc

SAMPLE & BATCH QC DATA

Sample ID	Vol (mL) Distilled	Final Distill Vol (mL)	Distillate Colored (mL)	Instrument Dilution	ABS	**Report mg/L**	Reporting Limit (mg/L)	Vol Spike Added (mL)	Std Conc. (mg/L)	Spiked @ (mg/L)	**% Rec**	**% RPD**
MB	50.0	50.0	20.0	1.00	-0.0011	**ND**	0.010					
LCS	50.0	50.0	20.0	1.00	0.2276	**0.1997**	0.010	0.5	20.2	0.202	**99**	
LCS	50.0	50.0	20.0	1.00	0.1210	**0.1062**	0.010	0.250	20.2	0.101	**105**	
185690-1	50.0	50.0	20.0	1.00	0.0008	**ND**	0.010					
185690-1ms	50.0	50.0	20.0	1.00	0.2453	**0.2152**	0.010	0.5	20.2	0.202	**107**	
185690-1msd	50.0	50.0	20.0	1.00	0.2530	**0.2220**	0.010	0.5	20.2	0.202	**110**	**3**
185408-6	50.0	50.0	20.0	1.00	0.0008	**ND**	0.010					
185408-7	50.0	50.0	20.0	1.00	-0.0015	**ND**	0.010					
185463-1	50.0	50.0	20.0	1.00	0.0067	**ND**	0.010					
185566-1	50.0	50.0	20.0	1.00	0.0103	**ND**	0.010					

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QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	80 - 120
MS/ MSD	20	69 - 120

Reviewed by/ Date: 3.22.06

---> **Quantitation Results Report** <---

Date : 03-~~17~~ 22-2006 3-22-06
Time : 13:36:32
Operator : Not Entered
DM

le Name : Data not stored yet

mple Name : cyanide
lvent Name : CAL 7/5/05
nc Units : mg/L
l. Factor : 1.00

Analytical Wavelength : 578 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

MPLE #	Sample Name	Wavelength	Func. Res.	Concentration
1	icb	Analytical	-0.0002	0.00000
2	icv	Analytical	+0.1980	0.16608
3	185408-6	Analytical	+0.0008	6.910E-04
4	185408-7	Analytical	-0.0015	0.00000
5	185463-1	Analytical	+0.0067	0.00559
6	185566-1	Analytical	+0.0103	0.00868
7	185690-1	Analytical	+0.0008	6.782E-04
8	185690-1ms	Analytical	+0.2453	0.20575
9	185690-1msd	Analytical	+0.2530	0.21221
0	lcs	Analytical	+0.2276	0.19090
1	lcs	Analytical	+0.1210	0.10149
2	mb	Analytical	-0.0011	0.00000
3	ccv	Analytical	+0.1954	0.16386
4	ccb	Analytical	-0.0005	0.00000

---> **Standard Calibration Report** <---

Date : 03-~~17~~ 22-2006 3-22-06
Time : 13:39:51
Operator : Not Entered
DH

e Name : C:\UV\DATA\mdcn705.STD

ple Name : cyanide
vent Name : CAL 7/5/05
c Units : mg/L

Analytical Wavelength : 578 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

ytical Function Concentration = +8.387E-01 * Absorbance

STD #	Concentration	Absorbance	% Error
1	0.00000	-.0009	*****
2	0.00884	0.0086	+22.699 %
3	0.01768	0.0195	+8.106 %
4	0.05304	0.0618	+2.340 %
5	0.08840	0.1033	+2.023 %
6	0.14144	0.1679	+0.471 %
7	0.17680	0.2081	+1.290 %
8	0.26520	0.3195	-1.022 %

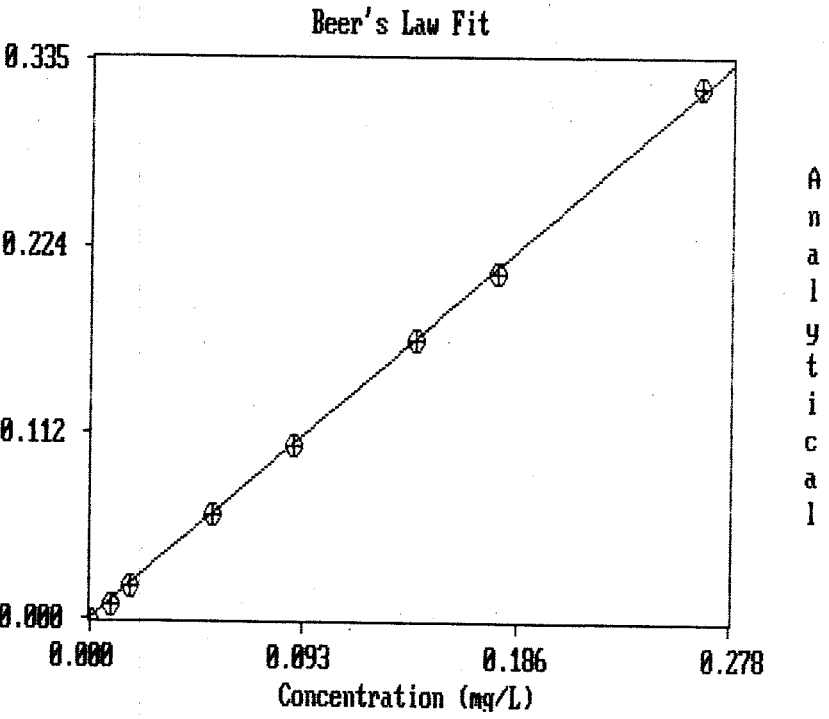
---> Standard Calibration Report <---

Date : 03-~~17~~ 22-2006 3-22-06 DMC
Time : 13:39:52
Operator : Not Entered
DM

Name : C:\UV\DATA\mdcn705.STD

e Name : cyanide
nt Name : CAL 7/5/05
Units : mg/L

Analytical Wavelength : 578 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds



TETR TECH 185566
TREADWELL 185408, 185463
PROJECT CH2M 185690

Notebook No. BK2289

Continued From Page

CN⁻ EPA 335.2M / 9010-9014 B111558

Sample	Vol (ml)	Final Vol (ml)	Vol (ml) for Color	ABS
185408-6	50	50	20	.0008
-7				-.0015
185463-1				.0067
185566-1				.0103
185690-1				.0008
LCS	+.5 ml (20.2ug/ml dilno FS2649, 1ml → 50ml)			.2276
LCS	same as LCS ÷ 2			.1210
MB				-.0011
ICB				-.0002
ICV 2ml (20.2ug/ml dilno FS2644) - 250			20ml	.1980
CCV				.1954
CCB				-.0005
185690-1MS	50	50	20	.2453
-1MSD	+.5 ml (20.2ug/ml dilno FS2649, 1ml → 50ml)			.2530

TV = .162 mg/L

Tests for CN^- & $S^=$ negative
pH all >12
Sulfamic acid added to all samples.

Continued on Page

Read and Understood By

Signed: [illegible] Date: 3-22-06

Signed: [illegible] Date: 3.22.06

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111558
Date Started: 22-MAR-2006
Batched by : Dennis McCanna

Analysis : CYANIDE
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185408-006			Treadwell & Rollo	Water	CYANIDE	21-MAR-2006
185408-007			Treadwell & Rollo	Water	CYANIDE	21-MAR-2006
185463-001			Treadwell & Rollo	Water	CYANIDE	22-MAR-2006
185566-001			Tetra Tech EC, Inc	Water	CYANIDE	22-MAR-2006
185690-001			CH2M Hill Construc	Water	CYANIDE	28-MAR-2006
QC332535	BLANK			Water	CYANIDE	
QC332536	MS	of 185690-001		Water	CYANIDE	
QC332537	MSD	of 185690-001		Water	CYANIDE	
QC332538	LCS			Water	CYANIDE	
QC332539	LCS			Water	CYANIDE	

Method Detection Limit Study

Analysis:	**Cyanide**	Matrix:	**Water**
Method:	EPA 335.2 mod*	Analysis Date:	8/24/2005
Instrument:	HP UV/VIS Spectrometer	Analyst:	DMc
	* using the midi-distillation apparatus		

Concentration:	0.0195	mg/L
1	0.0215	
2	0.0173	
3	0.0192	
4	0.0197	
5	0.0200	
6	0.0199	
7	0.0183	
8		
Average	0.0194	
STDEVP	0.00124	
Student's t	2.998	

(Student-T value for 7 replicates = 3.143, for 8 replicates = 2.998)

MDL = Student T * StdDev:	**0.0037**	mg/L
Reporting Limit:	0.0100	mg/L
Status:	PASS	>1/3 RL

f:\inorgan\forms\cn-mdl-h2o.xls
ver.2 effective 7/14/04

Curtis & Tompkins, Ltd.

Sulfide

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 376.2
Analyte:	Sulfide	Batch#:	111277
Matrix:	Water	Sampled:	03/08/06
Units:	mg/L	Received:	03/09/06
Diln Fac:	1.000	Analyzed:	03/14/06

Field ID	Type	Lab ID	Result	RL
600GW106	SAMPLE	185408-001	ND	0.04
600GW101	SAMPLE	185408-002	0.13	0.04
600GW105	SAMPLE	185408-003	ND	0.04
231GW21	SAMPLE	185408-004	ND	0.04
DUP0308061A	SAMPLE	185408-005	ND	0.04
	BLANK	QC331380	ND	0.04

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Sulfide

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 376.2
Analyte:	Sulfide	Diln Fac:	1.000
Field ID:	600GW101	Batch#:	111277
MSS Lab ID:	185408-002	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	mg/L	Analyzed:	03/14/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC331381	0.1277	0.2714	0.4149	106	75-125		
MSD	QC331382		0.2714	0.4229	109	75-125	2	20
LCS	QC331383		0.4070	0.4284	105	75-125		

RPD= Relative Percent Difference

Analysis:	**SULFIDE**	Matrix:	Water
Method:	**EPA 376.2**	Batch:	**111277**
Instrument:	HP UV-VIS Spectrometer	Prep Date:	**3/14/2006**
Wavelength:	626 nm	Analysis Date:	**3/14/2006**
SOP#:	sulfide_376_rv 4.doc	Analyst:	DM

INITIAL CALIBRATION DATA

Calibration Date: 11/15/05

Conc (mg/L)	Absorb	RF
0.0000	0.0001	
0.0233	0.0090	0.3863
0.0466	0.0156	0.3348
0.1862	0.0555	0.2981
0.3725	0.1650	0.4430
0.7450	0.3293	0.4420
1.3040	0.5687	0.4361
1.6760	0.7467	0.4455

Correlation Coefficient (r):	0.9994
Avg Rf:	0.3980
%RSD:	15.1

Note: Average Rf used to calculate sample results.

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CONTINUING CALIBRATION DATA

	Absorb	Conc (mg/L)	True (mg/L)	Recovery	CV Limits
ICV	0.1705	0.4284	0.4070	105%	90 - 110%
ICB	0.0002	0.0005	0.0000		
CCV	0.1714	0.4307	0.4070	106%	90 - 110%
CCB	0.0002	0.0005	0.0000		
CCV	0.1720	0.4322	0.4070	106%	90 - 110%
CCB	0.0011	0.0028	0.0000		
CCV	0.1707	0.4289	0.4070	105%	90 - 110%
CCB	0.0017	0.0043	0.0000		

Analysis: **SULFIDE**
Method: **EPA 376.2**
Instrument: HP UV-VIS Spectrometer
Wavelength: 626 nm
Matrix: Water

Batch: **111277**
Prep Date: **3/14/2006**
Analysis Date: **3/14/2006**
Analyst: DM

SAMPLE & BATCH QC DATA

Sample ID	Sample Vol (mL)	D.F.	Sample Absorb	Color Blk Absorb	**Report mg/L**	Reporting Limit (mg/L)	Vol Spike Added (mL)	Std Conc. (mg/L)	Spiked @ (mg/L)	**% Rec**	**% RPD**
MB	7.5000	1.0000	0.0002		**ND**	0.040					
LCS	7.5000	1.0000	0.1705		**0.42844**	0.040	1.0000	40.7040	0.4070	**105**	
185408-2	7.5000	1.0000	0.0508		**0.12765**	0.040					
185408-2ms	7.5000	1.0000	0.1651		**0.41487**	0.040	0.0500	40.7040	0.2714	**106**	
185408-2msd	7.5000	1.0000	0.1683		**0.42291**	0.040	0.0500	40.7040	0.2714	**109**	**2**
185373-6	7.5000	1.0000	0.0027		**ND**	0.040					
185381-1	7.5000	1.0000	-0.0026		**ND**	0.040					
185381-2	7.5000	1.0000	-0.0006		**ND**	0.040					
185381-3	7.5000	1.0000	0.0240		**0.06031**	0.040					
185381-4	7.5000	1.0000	0.0075		**ND**	0.040					
185381-5	7.5000	1.0000	0.0042		**ND**	0.040					
185381-6	7.5000	1.0000	0.0039		**ND**	0.040					
185381-7	7.5000	1.0000	0.0053		**ND**	0.040					
185381-15	7.5000	1.0000	0.0074		**ND**	0.040					
185381-16	7.5000	1.0000	0.0551		**0.13846**	0.040					
185381-17	7.5000	1.0000	0.0038		**ND**	0.040					
185381-18	7.5000	1.0000	0.0037		**ND**	0.040					
185381-19	7.5000	1.0000	-0.0012		**ND**	0.040					
185381-20	7.5000	1.0000	0.0013		**ND**	0.040					

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	20	42 - 121

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C&T, f:\inorgan\wetstuff\sulfide.xls
Rev. 9.1, Effective 2/27/06

185408-1	7.5000	1.0000	0.0010	**ND**	0.040
185408-3	7.5000	1.0000	0.0009	**ND**	0.040
185408-4	7.5000	1.0000	0.0035	**ND**	0.040
185408-5	7.5000	1.0000	0.0053	**ND**	0.040

Reviewed by/ Date: Jason Lopez 3-29-6

603

---> **Quantitation Results Report** <---

Date : 03-~~11~~ 14-2006
Time : 12:23:55 3/14/06
Operator : Not Entered
DM

ile Name : Data not stored yet

ample Name : sulfide
olvent Name : CAL11-15-05
onc Units : mg/L
il. Factor : 1.00

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

AMPLE #	Sample Name	Wavelength	Func. Res.	Concentration
1	icb/mb	Analytical	+0.0002	5.186E-04
2	icv/lcs	Analytical	+0.1705	0.38628
3	185373-6	Analytical	+0.0027	0.00615
4	185381-1	Analytical	-0.0026	0.00000
5	185381-2	Analytical	-0.0006	0.00000
6	185381-3	Analytical	+0.0240	0.05442
7	185381-4	Analytical	+0.0075	0.01708
8	185381-5	Analytical	+0.0042	0.00940
9	185381-6	Analytical	+0.0039	0.00882
10	185381-7	Analytical	+0.0053	0.01193
11	ccv	Analytical	+0.1714	0.38846
12	ccb	Analytical	+0.0002	3.803E-04
13	185381-15	Analytical	+0.0074	0.01677
14	185381-16	Analytical	+0.0551	0.12477
15	185381-17	Analytical	+0.0038	0.00864
16	185381-18	Analytical	+0.0037	0.00833
17	185381-19	Analytical	-0.0012	0.00000
18	185381-20	Analytical	+0.0013	0.00297
19	185408-1	Analytical	+0.0010	0.00232
20	185408-2	Analytical	+0.0508	0.11516
21	185408-2ms	Analytical	+0.1651	0.37401
22	185408-2msd	Analytical	+0.1683	0.38130
23	ccv	Analytical	+0.1720	0.38974
24	ccb	Analytical	+0.0011	0.00256

25	185408-3	Analytical	+0.0009	0.00211
26	185408-4	Analytical	+0.0035	0.00792
27	185408-5	Analytical	+0.0053	0.01210
28	ccv	Analytical	+0.1707	0.38680
29	ccb	Analytical	+0.0017	0.00387

---> **Standard Calibration Report** <---

Date : 03-~~11~~ 14-2006
Time : 12:24:44 3 19 06
Operator : Not Entered
DM

e Name : C:\UV\DATA\ss1105.STD

ple Name : sulfide
vent Name : CAL11-15-05
r Units : mg/L

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

ytical Function Concentration = +2.266E+00 * Absorbance

STD #	Concentration	Absorbance	% Error
1	0.00000	0.0001	*****
2	0.37250	0.1650	-0.366 %
3	0.74500	0.3293	-0.135 %
4	1.30400	0.5687	+1.198 %
5	1.67600	0.7467	-0.933 %
6	0.02330	0.0090	+14.422 %
7	0.04660	0.0156	+31.758 %
8	0.18620	0.0555	+48.042 %

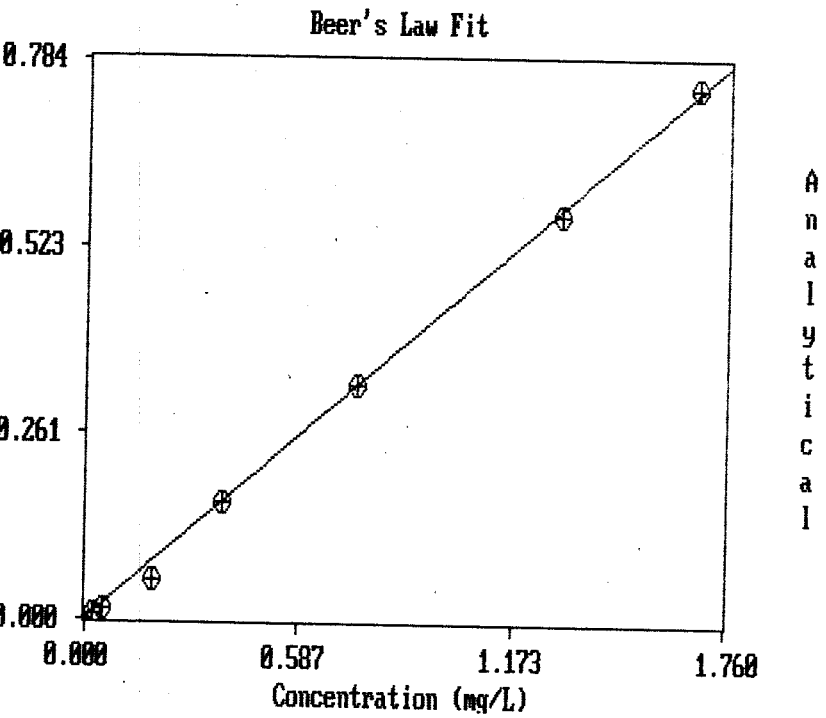
---> Standard Calibration Report <---

Date : 03-14-2006
Time : 12:24:46 3-14-06 am
Operator : Not Entered
DM

Name : C:\UV\DATA\ss1105.STD

e Name : sulfide
nt Name : CAL11-15-05
Units : mg/L

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds



PROJECT ACME 185373 TREADWELL 185381 185408

Notebook No. BK2289

Continued From Page

Sulfate EPA ~~365~~ 375.2 ~~20~~ 4500 B 111277

Sample	Vol (ml)	Final Vol (ml)	ABS	
185373-6	7.5	7.5	.0027	
				Sulfate STD
185381-1			-.0028	
-2			-.0006	2.4g 04SS292 → 50 ml DI H2O
-3			.0240	
-4			.0875	1.0 ml $2
-5			.0042	10 ml I .02369N
-6			.0039	5.0 ml $2O3 .02194N
-7			.0053	
-15			.0074	.2369
-16			.0551	-.10970
-17			.0038	.12720 x 16000 = 2035.2 mg/L
-18			.0637	1.0 1:5 = 407.040 mg/L
-19			-.0012	~~1:05 → 7.5 = 27.14 mg/L~~
-20			.0013	1:100 = .4070 mg/L
185408-1			.0010	
-2			.0508	
			~~.1651~~ ~~3.14-06~~	
-2MS	+ .05ml (40.7040 mg/L from 04SS292)		.1651	
-2MSD	Same as MS		.1683	
-3			.0009	
-4			.0035	
-5			.0053	
ICB/MB			.0002	
ICV/LCS	+ 1ml 40.7040 mg/L → 100ml		.1705	TV = .4070 mg/L
CCV			.1714	
CCB			.0002	
CCV			.1720	
CCB			.0011	
CCV			.1707	
CCB			.0017	

Continued on Page

Read and Understood By

Signed: [illegible] Date: 3-14-06 = 608 Analysis; 3-20-06 = water

Signed: [illegible] Date: 3.20.06

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111277
Date Started: 14-MAR-2006
Batched by : Dennis McCanna

Analysis : SULFIDE
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185373-006			Acme Fill Corp.	Water	SULFIDE	20-MAR-2006
185381-001			Treadwell & Rollo	Water	SULFIDE	20-MAR-2006
185381-002			Treadwell & Rollo	Water	SULFIDE	20-MAR-2006
185381-003			Treadwell & Rollo	Water	SULFIDE	20-MAR-2006
185381-004			Treadwell & Rollo	Water	SULFIDE	20-MAR-2006
185381-005			Treadwell & Rollo	Water	SULFIDE	20-MAR-2006
185381-006			Treadwell & Rollo	Water	SULFIDE	20-MAR-2006
185381-007			Treadwell & Rollo	Water	SULFIDE	20-MAR-2006
185381-015			Treadwell & Rollo	Water	SULFIDE	20-MAR-2006
185381-016			Treadwell & Rollo	Water	SULFIDE	20-MAR-2006
185381-017			Treadwell & Rollo	Water	SULFIDE	20-MAR-2006
185381-018			Treadwell & Rollo	Water	SULFIDE	20-MAR-2006
185381-019			Treadwell & Rollo	Water	SULFIDE	20-MAR-2006
185381-020			Treadwell & Rollo	Water	SULFIDE	20-MAR-2006
185408-001			Treadwell & Rollo	Water	SULFIDE	21-MAR-2006
185408-002			Treadwell & Rollo	Water	SULFIDE	21-MAR-2006
185408-003			Treadwell & Rollo	Water	SULFIDE	21-MAR-2006
185408-004			Treadwell & Rollo	Water	SULFIDE	21-MAR-2006
185408-005			Treadwell & Rollo	Water	SULFIDE	21-MAR-2006
QC331380	BLANK			Water	SULFIDE	
QC331381	MS	of 185408-002		Water	SULFIDE	
QC331382	MSD	of 185408-002		Water	SULFIDE	
QC331383	LCS			Water	SULFIDE	

Analysis:	Sulfide	Analysis Date:	4/14/2005
Method:	EPA 376.2	Analyst:	DM
Instrument:	HP UV/Vis		
Wavelength:	626 nm		

Instrument Calibrated to report sample results in concentration: mg/L

Concentration:	0.1098
Units:	mg/L
1	0.100
2	0.104
3	0.105
4	0.096
5	0.096
6	0.095
7	0.092
Average:	0.098 ug/L
Std Deviation:	0.004691
Student T:	3.143

(Student-T value for 7 replicates = 3.143, for 8 replicates = 2.998)

MDL = Student T * StdDev:	**0.0147** mg/L
Reporting Limit:	0.04 mg/L
Status:	PASS >1/3 RL

Curtis & Tompkins, Ltd.

Total Dissolved Solids (TDS)

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Batch#:	111354
Matrix:	Water	Sampled:	03/08/06
Units:	mg/L	Received:	03/09/06
Diln Fac:	1.000	Analyzed:	03/15/06

Field ID	Type	Lab ID	Result	RL
600GW106	SAMPLE	185408-001	510	10
600GW101	SAMPLE	185408-002	800	10
600GW105	SAMPLE	185408-003	550	10
231GW21	SAMPLE	185408-004	580	10
DUP0308061A	SAMPLE	185408-005	570	10
LF01GW01	SAMPLE	185408-006	520	10
DUP0308063C	SAMPLE	185408-007	480	10
DAESP03	SAMPLE	185408-008	400	10
DUP0308063A	SAMPLE	185408-009	350	10
BB3SW104	SAMPLE	185408-010	400	10
DUP0308063B	SAMPLE	185408-011	380	10
	BLANK	QC331712	ND	10

ND= Not Detected
RL= Reporting Limit

Batch QC Report

Total Dissolved Solids (TDS)

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Batch#:	111354
Matrix:	Water	Sampled:	03/08/06
Units:	mg/L	Analyzed:	03/15/06

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim	Diln Fac	Received
	BS		QC331713		100.0	90.00		90	79-121			1.000	
	BSD		QC331714		100.0	104.0		104	79-121	14	20	1.000	
ZZZZZZZZZZ	SDUP	185373-001	QC331715	7,800		9,133	166.7			16	20	16.67	03/08/06
600GW101	SDUP	185408-002	QC331716	798.0		776.0	10.00			3	20	1.000	03/09/06
DAESP03	SDUP	185408-008	QC331717	404.0		360.0	10.00			12	20	1.000	03/09/06
BB3SW104	SDUP	185408-010	QC331718	400.0		396.0	10.00			1	20	1.000	03/09/06

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RL= Reporting Limit
RPD= Relative Percent Difference

52.0

Curtis & Tompkins, Ltd.

Analysis: **Total Dissolved Solids**
Method: **EPA160.1** / SMWW 2540c
Matrix: Water
SOP#: tds_rv 9.doc

Analysis Date: **15-Mar-06**
Batch #: **111354**
Analyst: JKS

BATCH QC DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)	Spike Std Conc (mg/L)	Spike Vol.Used (mL)	Spiking Level (mg/L)	**Recovery,%**	**RPD,%**
MB	50	1	53.0682	53.0685	0.0003	ND	10					
BS	50	1	55.6991	55.7036	0.0045	90.0	10	1,000	5	100	**90**	
BSD	50	1	50.4022	50.4074	0.0052	104.0	10	1,000	5	100	**104**	**14.43**
185373-1	3	16.67	24.8887	24.9121	0.0234	7,800.0	167					
SDUP	3	16.67	26.2259	26.2533	0.0274	9,133.3	167					**15.75**
185408-2	50	1	48.6896	48.7295	0.0399	798.0	10					
SDUP	50	1	44.1328	44.1716	0.0388	776.0	10					**2.80**
185408-8	50	1	44.2395	44.2597	0.0202	404.0	10					
SDUP	50	1	49.1187	49.1367	0.0180	360.0	10					**11.52**
185408-10	50	1	47.0435	47.0635	0.0200	400.0	10					
SDUP	50	1	46.9518	46.9716	0.0198	396.0	10					**1.01**

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	79 - 121
MS/ MSD	20	69 - 131

SAMPLE DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)
185408-1	50	1	47.5103	47.5358	0.0255	510.0	10
185408-3	50	1	45.1159	45.1434	0.0275	550.0	10
185408-4	50	1	48.4244	48.4536	0.0292	584.0	10
185408-5	50	1	46.8879	46.9164	0.0285	570.0	10
185408-6	50	1	41.6626	41.6888	0.0262	524.0	10
185408-7	50	1	44.6076	44.6316	0.0240	480.0	10
185408-9	50	1	52.7107	52.7280	0.0173	346.0	10
185408-11	50	1	49.4103	49.4291	0.0188	376.0	10
185457-1	50	1	51.4891	51.5242	0.0351	702.0	10
185463-1	50	1	49.0329	49.0468	0.0139	278.0	10

Note: Because the regulatory holding time is based on the prep date, the analysis date referenced above is the prep date.

Reviewed by/ Date: RSCiFFa 3/20/06

613

TDS (Total Dissolved Solids)
EPA 160.1 / SMWW 2540C

Curtis & Tompkins, Ltd.

LIMS Batch #: 111354

Prep Date: 3-15-6
Prep Time: 16:00

Benchbook#: **BK2145**
Page: **82**

Filter Mfg/ Lot#: F1672370
Spike WS#: S2182

Spike WS Conc (mg/L): 1000
Spike Vol Added (mL): 5

	In	Out	In-2	Out-2	In-3	Out-3
Date:	3-15-6	3-16-6	3-16-6	3-16-6		
Time:	19:00	10:00	15:00	17:00		
Temp (C):	90	180°C	180°C	180°C		

	Sample # / Letter	EC Value (µS/cm)	Sample Vol. Filtered (mL)	Dish ID	Dish Wt (g)	1st Dry Wt.(g)	2nd Dry Wt (g)*	3rd Dry Wt (g)*
1	MB		50	TT	53.0682	53.0685	53.0683	
	BS			EA	55.6991	55.7036	55.7040	
	BSD			MM	50.4022	50.4074	50.4078	
	185373-1J	11,640	3	∴	24.8887	24.9121	24.9122	
5	-1J SDUP	—	3	LK	26.2259	26.2533	26.2533	
	185408-1L	928	50	8	47.5103	47.5358	47.5357	
	-2Z	1383		H	48.6896	48.7295	48.7298	
	-2Z SDUP	(SS) 356 ~~1098~~ —		R	44.1328	44.1716	44.1719	
	-3L	(SS) 356 ~~762~~ 1098		K	45.1159	45.1434	45.1430	
10	-4L	962		AE	48.4244	48.4536	48.4536	
	-5L	978		LMM	46.8879	46.9164	46.9165	
	-6B	888		HT	41.6626	41.6888	41.6886	
	-7B	879		Z	44.6076	44.6316	44.6312	
	-8Z	319		KED	44.2395	44.2597	44.2596	
15	-8Z SDUP	—		AVI	49.1187	49.1367	49.1366	
	-9J	317		3	52.7107	52.7280	52.7281	
	-10Q	594		1	47.0435	47.0635	47.0639	
	-10Q SDUP	—		Δ	46.9518	46.9716	46.9717	
	-11F	618		ETH	49.4103	49.4291	49.4293	
20	185457-1H	1187		31	51.4891	51.5242	51.5244	
	185463-1H	260		2	49.0329	49.0468	49.0469	

* Constant weight must be within 0.0005 from previous reading.

3-15-6
Analyst / Date

RSCIFFA 3/20/2006
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111354
Date Started: 15-MAR-2006
Batched by : Jason K. Spence

Analysis : TDS
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185373-001			Acme Fill Corp.	Water	TDS	20-MAR-2006
185408-001			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-002			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-003			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-004			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-005			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-006			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-007			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-008			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-009			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-010			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-011			Treadwell & Rollo	Water	TDS	21-MAR-2006
185457-001			Treadwell & Rollo	Water	TDS	22-MAR-2006
185463-001			Treadwell & Rollo	Water	TDS	22-MAR-2006
QC331712	BLANK			Water	TDS	
QC331713	BS			Water	TDS	
QC331714	BSD			Water	TDS	
QC331715	SDUP	of 185373-001		Water	TDS	
QC331716	SDUP	of 185408-002		Water	TDS	
QC331717	SDUP	of 185408-008		Water	TDS	
QC331718	SDUP	of 185408-010		Water	TDS	

Curtis & Tompkins, Ltd.

Total Organic Carbon (TOC)

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 415.2
Analyte:	Total Organic Carbon	Diln Fac:	1.000
Matrix:	Water	Sampled:	03/08/06
Units:	mg/L	Received:	03/09/06

Field ID	Type	Lab ID	Result	RL	Batch#	Analyzed
600GW106	SAMPLE	185408-001	1.8	0.50	111739	03/26/06
600GW101	SAMPLE	185408-002	11	0.50	111777	03/28/06
600GW105	SAMPLE	185408-003	5.5	0.50	111755	03/28/06
231GW21	SAMPLE	185408-004	9.1	0.50	111755	03/28/06
DUP0308061A	SAMPLE	185408-005	9.3	0.50	111755	03/28/06
	BLANK	QC333263	ND	0.50	111739	03/26/06
	BLANK	QC333314	ND	0.50	111755	03/28/06
	BLANK	QC333403	ND	0.50	111777	03/28/06

ND= Not Detected
RL= Reporting Limit

6/6

REVISED
CW 4/27/06

108.1

Curtis & Tompkins, Ltd.

Batch QC Report

Total Organic Carbon (TOC)

Lab #:	185408	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 415.2
Analyte:	Total Organic Carbon	Units:	mg/L
Field ID:	600GW101	Sampled:	03/08/06
MSS Lab ID:	185408-002	Received:	03/09/06
Matrix:	Water		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Analyzed
BS	QC333264		10.00	9.105	91	80-120			1.000	111739	03/26/06
BSD	QC333265		10.00	9.189	92	80-120	1	20	1.000	111739	03/26/06
BS	QC333315		15.00	14.86	99	80-120			1.000	111755	03/28/06
BSD	QC333316		15.00	14.85	99	80-120	0	20	1.000	111755	03/28/06
LCS	QC333404		10.00	9.110	91	80-120			1.000	111777	03/28/06
MS	QC333405	11.01	10.00	20.86	99	80-135			2.000	111777	03/28/06
MSD	QC333406		10.00	20.48	95	80-135	2	20	2.000	111777	03/28/06

RPD= Relative Percent Difference

617

REVISED 09.2
CW 4/27/06

Analysis:	**Total Inorganic & Organic Carbon**	Date Analyzed:	**26-Mar-06**
Method:	**EPA 415.2 / SMWW 5310c**	Batch #:	**111739**
Matrix:	Water	Analyst:	SY
Instrument:	Tekmar-Dorman		
SOP#:	toc_415_rv 7.doc		

Calibration Range: **0.5- 20ppm** Calibration Date: 16-Feb-05

Standard Conc (mg/L)	Injection Size (mL)	Expected ug C	ABS	RF
0	4.0	0	285214	
0.5	4.0	2.0	1020522	510261
1.0	4.0	4.0	1372216	343054
5.0	4.0	20.0	5433587	271679
10.0	4.0	40.0	10544965	263624
20.0	4.0	80.0	22033950	275424

Correlation Coefficient (r):	0.9995	Slope:	269261
R-Square:	0.9989	Intercept:	229731

Calibration Verification Data

	TOC (mg/L) True Value	Instrument "ppm C"	TOC (mg/L) Report	Recovery	Recovery Limits
ICV	10.0	9.11	9.1052	91%	90% - 110%
ICB	0	0.07	ND		
CCV	10.0	9.04	9.0399	90%	90% - 110%
CCB	0	0.25	ND		

REVISED
Cw 4/27/06

618

Analysis:	**Total Inorganic & Organic Carbon**	Date Analyzed:	**26-Mar-06**
Method:	**EPA 415.2 / SMWW 5310c**	Batch #:	**111739**
Matrix:	Water	Analyst:	SY
Instrument:	Tekmar-Dorman		

Batch QC Data

Sample	PDF	Instrument "ppm C"	**TOC (mg/L) Report**	Reporting Limit (mg/L)	TOC Spike Level (mg/L)	Recovery,%	%RPD
BLANK	1	0.0689	**ND**	0.5			
BS	1	9.1052	**9.1052**	0.5	10	91.1	
BSD	1	9.1886	**9.1886**	0.5	10	91.9	0.91

QC Limits	Recovery	RPD
LCS/ BS/ BSD	80 - 120	20
SSPIKE/ SDUP	71 - 134	20

Sample Data

Sample	IDF	Instrument "ppm C"	**TOC (mg/L) Report**	Reporting Limit (mg/L)
185381-15	1	3.05	**3.05**	0.5
185381-16	1	4.21	**4.21**	0.5
185381-17	1	4.24	**4.24**	0.5
185381-18	1	4.29	**4.29**	0.5
185381-19	1	2.23	**2.23**	0.5
185381-20	1	2.07	**2.07**	0.5
185408-1	1	1.79	**1.79**	0.5

REVISED
CW 4/27/06

619

Detailed Analysis Report Print Date/Time: 2006/03/27 6:09:02

Sample ID: blk
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 17:12
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.3718	1.4871	529218	33.976	34.972	66
2	0.1163	0.4653	254085	34.025	35.021	57

<<<Statistics>>> Mean: 0.2440 Std Dev: 0.1807 RSD: 74.03

Sample ID: icb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 17:26
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0689	0.2756	203012	34.072	35.071	55
2	0.0712	0.2850	205523	34.110	35.104	54

<<<Statistics>>> Mean: 0.0701 Std Dev: 0.0016 RSD: 2.32

Sample ID: 10 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 17:42
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	8.9779	35.9116	9899307	34.188	35.187	124
2	9.1052	36.4206	10036374	34.344	35.344	113

<<<Statistics>>> Mean: 9.0415 Std Dev: 0.0900 RSD: 1.00

Sample ID: bsd
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 17:57
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.2175	36.8701	10056473	34.494	35.494	109
2	9.1886	36.7545	10025343	34.510	35.508	116

<<<Statistics>>> Mean: 9.2030 Std Dev: 0.0204 RSD: 0.22

Sample ID: 185381-15D
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 18:12
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.0519	12.2076	3415832	34.610	35.607	92
2	3.0004	12.0015	3360341	34.413	35.412	102

<<<Statistics>>> Mean: 3.0261 Std Dev: 0.0364 RSD: 1.20

Sample ID: 185381-16D
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 18:28
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.2118	16.8471	4665046	34.598	35.597	113
2	4.3169	17.2677	4778322	34.475	35.474	121

<<<Statistics>>> Mean: 4.2643 Std Dev: 0.0743 RSD: 1.74

Sample ID: 185381-17D
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 18:44
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.2376	16.9504	4692874	34.537	35.533	119
2	4.2440	16.9759	4699734	34.448	35.447	123

<<<Statistics>>> Mean: 4.2408 Std Dev: 0.0045 RSD: 0.11

Sample ID: 185381-18D
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 19:00
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.2872	17.1487	4746266	34.536	35.535	126
2	4.2647	17.0589	4722101	34.426	35.425	112

<<<Statistics>>> Mean: 4.2759 Std Dev: 0.0159 RSD: 0.37

Sample ID: 185381-19G
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 19:15
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.2343	8.9373	2535262	34.486	35.480	101
2	2.1965	8.7861	2494553	34.391	35.385	102

<<<Statistics>>> Mean: 2.2154 Std Dev: 0.0267 RSD: 1.21

Sample ID: 185381-20I
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 19:31
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.0701	8.2804	2358375	34.502	35.502	109
2	2.0554	8.2216	2342542	34.389	35.387	111

<<<Statistics>>> Mean: 2.0627 Std Dev: 0.0104 RSD: 0.50

Sample ID: 185408-1G
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 19:46
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.7890	7.1562	2055673	34.455	35.453	108
2	1.7905	7.1620	2057251	34.384	35.384	108

<<<Statistics>>> Mean: 1.7898 Std Dev: 0.0011 RSD: 0.06

Sample ID: 10 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 20:02
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	8.9761	35.9044	9897385	34.412	35.411	127
2	9.0399	36.1594	9966047	34.504	35.501	122

<<<Statistics>>> Mean: 9.0080 Std Dev: 0.0451 RSD: 0.50

Sample ID: ccb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 20:16
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2494	0.9978	397451	34.573	35.569	55
2	0.1555	0.6218	296231	34.392	35.382	54

<<<Statistics>>> Mean: 0.2025 Std Dev: 0.0664 RSD: 32.80

Sample ID: 185408-2J
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 20:33
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.1160	40.4640	11024161	34.297	35.296	174
2	10.3046	41.2185	11227325	34.366	35.365	143

<<<Statistics>>> Mean: 10.2103 Std Dev: 0.1334 RSD: 1.31

Sample ID: 185408-2Mms
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 20:50
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.2613	41.0451	11180621	34.408	35.408	158
2	10.1830	40.7322	11096370	34.571	35.570	148

<<<Statistics>>> Mean: 10.2221 Std Dev: 0.0554 RSD: 0.54

Sample ID: 185408-2Mmsd
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 21:06
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.1047	40.4190	11012039	34.564	35.563	149
2	10.0414	40.1658	10943866	34.597	35.595	139

<<<Statistics>>> Mean: 10.0730 Std Dev: 0.0448 RSD: 0.44

Sample ID: 185408-3I
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 21:23
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time

1	5.3110	21.2440	5848965	34.436	35.431	142
2	5.0785	20.3142	5598606	34.367	35.364	135

<<<Statistics>>> Mean: 5.1947 Std Dev: 0.1644 RSD: 3.16

Sample ID: 185408-4I
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 21:40
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	8.4754	33.9017	9257203	34.156	35.155	150
2	8.8119	35.2475	9619554	34.197	35.197	156

<<<Statistics>>> Mean: 8.6437 Std Dev: 0.2379 RSD: 2.75

Sample ID: 185408-5I
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 21:57
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.9608	19.8430	5471749	34.256	35.255	155
2	5.0649	20.2595	5583897	34.255	35.254	166

<<<Statistics>>> Mean: 5.0128 Std Dev: 0.0736 RSD: 1.47

Sample ID: 185481-1C
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 22:14
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.0147	24.0588	6606888	34.262	35.261	156
2	5.9576	23.8304	6545389	34.253	35.251	149

<<<Statistics>>> Mean: 5.9861 Std Dev: 0.0404 RSD: 0.67

Sample ID: 185556-1Cx2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 22:28
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2720	1.0879	421723	34.135	35.129	61
2	0.2001	0.8004	344306	33.941	34.939	61

<<<Statistics>>> Mean: 0.2361 Std Dev: 0.0508 RSD: 21.54

Sample ID: 10 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03261659
Timestamp: 03/26/2006 22:41
Sample Type: Cal. Verification

out of cell

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	-0.1240	-0.4962	96134	33.908	34.908	49
2	-0.1222	-0.4886	98157	33.784	34.778	50

Last Message: Out of Calibration
<<<Statistics>>> Mean: -0.1231 Std Dev: 0.0013 RSD: -1.03

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111739
Date Started: 26-MAR-2006
Batched by : Jason K. Spence

Analysis : TOC
Bgroup : N/A
Department : Wet Chemistry

Sample	Type	Client	Matrix	Analyses	Due Date
185381-015		Treadwell & Rollo	Water	TOC	20-MAR-2006
185381-016		Treadwell & Rollo	Water	TOC	20-MAR-2006
185381-017		Treadwell & Rollo	Water	TOC	20-MAR-2006
185381-018		Treadwell & Rollo	Water	TOC	20-MAR-2006
185381-019		Treadwell & Rollo	Water	TOC	20-MAR-2006
185381-020		Treadwell & Rollo	Water	TOC	20-MAR-2006
185408-001		Treadwell & Rollo	Water	TOC	21-MAR-2006
QC333263	BLANK		Water	TOC	
QC333264	BS		Water	TOC	
QC333265	BSD		Water	TOC	

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REVISED
CW 4/27/06

Analysis:	**Total Inorganic & Organic Carbon**	Date Analyzed:	**28-Mar-06**
Method:	**EPA 415.2 / SMWW 5310c**	Batch #:	**111755**
Matrix:	Water	Analyst:	JKS
Instrument:	Tekmar-Dorman	Write up :	SY
SOP#:	toc_415_rv 7.doc		

Calibration Range: **0.5- 20ppm** Calibration Date: 16-Feb-05

Standard Conc (mg/L)	Injection Size (mL)	Expected ug C	ABS	RF
0	4.0	0	285214	
0.5	4.0	2.0	1020522	510261
1.0	4.0	4.0	1372216	343054
5.0	4.0	20.0	5433587	271679
10.0	4.0	40.0	10544965	263624
20.0	4.0	80.0	22033950	275424

Correlation Coefficient (r):	0.9995	Slope:	269261
R-Square:	0.9989	Intercept:	229731

Calibration Verification Data

	TOC (mg/L) True Value	Instrument "ppm C"	TOC (mg/L) Report	Recovery	Recovery Limits
ICV	15.0	14.86	14.8573	99%	90% - 110%
ICB	0	0.10	ND		
CCV	15.0	14.58	14.578	97%	90% - 110%
CCB	0	0.39	ND		
CCV	15.0	14.60	14.5963	97%	90% - 110%
CCB	0	0.35	ND		

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REVISED
CW 4/27/06

Analysis:	**Total Inorganic & Organic Carbon**	Date Analyzed:	**28-Mar-06**
Method:	**EPA 415.2 / SMWW 5310c**	Batch #:	**111755**
Matrix:	Water	Analyst:	JKS
Instrument:	Tekmar-Dorman	Write up :	SY

Batch QC Data

Sample	PDF	Instrument "ppm C"	**TOC (mg/L) Report**	Reporting Limit (mg/L)	TOC Spike Level (mg/L)	Recovery,%	%RPD
BLANK	1	0.1019	**ND**	0.5			
BS	1	14.8573	**14.8573**	0.5	15	99.0	
BSD	1	14.8479	**14.8479**	0.5	15	99.0	0.06

QC Limits	Recovery	RPD
LCS/ BS/ BSD	80 - 120	20
SSPIKE/ SDUP	80 - 135	20

Sample Data

Sample	IDF	Instrument "ppm C"	**TOC (mg/L) Report**	Reporting Limit (mg/L)
185408-3	1	5.52	**5.52**	0.5
185408-4	1	9.12	**9.12**	0.5
185408-5	1	9.34	**9.34**	0.5
185459-1	1	1.65	**1.65**	0.5
185459-2	1	0.41	**ND**	0.5
185459-3	1	2.19	**2.19**	0.5
185459-4	1	6.69	**6.69**	0.5
185459-5	1	1.79	**1.79**	0.5
185459-6	1	1.79	**1.79**	0.5
185459-7	1	1.76	**1.76**	0.5
185481-1	1	5.83	**5.83**	0.5
185556-1	2	6.09	**12.18**	1.0

REVISED
CW 4/27/06

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Detailed Analysis Report Print Date/Time: 2006/03/28 8:02:41

Sample ID: blk
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03280138
Timestamp: 03/28/2006 01:52
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1567	0.6267	297548	33.107	34.105	64
2	0.1474	0.5898	287597	33.045	34.043	63

<<<Statistics>>> Mean: 0.1521 Std Dev: 0.0066 RSD: 4.32

Sample ID: icb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03280138
Timestamp: 03/28/2006 02:06
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1019	0.4076	238534	33.058	34.057	60
2	0.0944	0.3777	230487	33.029	34.025	60

<<<Statistics>>> Mean: 0.0981 Std Dev: 0.0053 RSD: 5.40

Sample ID: 15 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03280138
Timestamp: 03/28/2006 02:22
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.8573	59.4291	16231643	33.109	34.104	143
2	14.8170	59.2679	16188239	33.267	34.264	149

<<<Statistics>>> Mean: 14.8372 Std Dev: 0.0285 RSD: 0.19

Sample ID: bsd
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03280138
Timestamp: 03/28/2006 02:38
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.8479	59.3916	16120615	33.392	34.391	135
2	14.5402	58.1610	15789265	33.229	34.224	109

<<<Statistics>>> Mean: 14.6940 Std Dev: 0.2176 RSD: 1.48

Sample ID: 185408-2L
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03280138
Timestamp: 03/28/2006 02:55
Sample Type: Sample

not considered
SY

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.8791	43.5163	11846020	33.223	34.218	147
2	10.9180	43.6719	11887921	33.282	34.281	148

<<<Statistics>>> Mean: 10.8986 Std Dev: 0.0275 RSD: 0.25

Sample ID: 185408-2Kms
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03280138
Timestamp: 03/28/2006 03:11
Sample Type: Sample

→ was not spiked
SY 3.28.06

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.8260	23.3041	6403674	33.183	34.182	140
2	5.7381	22.9526	6309031	33.310	34.310	138

<<<Statistics>>> Mean: 5.7821 Std Dev: 0.0622 RSD: 1.07

not considered

Sample ID: 185408-2Kmsd
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03280138
Timestamp: 03/28/2006 03:27
Sample Type: Sample

→ not spiked
SY 3.28.06

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.6473	22.5892	6211178	33.340	34.339	115
2	5.5616	22.2464	6118878	33.292	34.291	113

<<<Statistics>>> Mean: 5.6045 Std Dev: 0.0606 RSD: 1.08

Sample ID: 185408-3H
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03280138
Timestamp: 03/28/2006 03:44
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.5210	22.0841	6075188	33.312	34.311	149
2	5.5150	22.0598	6068637	33.239	34.237	151

<<<Statistics>>> Mean: 5.5180 Std Dev: 0.0042 RSD: 0.08

Sample ID: 185408-4H
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03280138
Timestamp: 03/28/2006 04:02
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.1152	36.4608	9946265	33.261	34.260	195
2	9.2627	37.0508	10105127	33.481	34.480	173

<<<Statistics>>> Mean: 9.1889 Std Dev: 0.1043 RSD: 1.14

Sample ID: 185408-5I
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03280138
Timestamp: 03/28/2006 04:20
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.3384	37.3536	10186655	33.439	34.437	202
2	9.3241	37.2963	10171224	33.336	34.334	176

<<<Statistics>>> Mean: 9.3312 Std Dev: 0.0101 RSD: 0.11

Sample ID: 185481-1B
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03280138
Timestamp: 03/28/2006 04:39
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.8312	23.3247	6409237	33.364	34.361	204
2	5.7141	22.8563	6283101	33.425	34.424	209

<<<Statistics>>> Mean: 5.7726 Std Dev: 0.0828 RSD: 1.43

Sample ID: 15 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03280138
Timestamp: 03/28/2006 04:55
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.5780	58.3121	15930889	33.482	34.480	148
2	14.7663	59.0650	16133621	33.368	34.368	136

<<<Statistics>>> Mean: 14.6721 Std Dev: 0.1331 RSD: 0.91

Sample ID: ccb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03280138
Timestamp: 03/28/2006 05:09
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.3933	1.5733	552432	33.325	34.323	66
2	0.2420	0.9680	389430	33.233	34.231	63

<<<Statistics>>> Mean: 0.3176 Std Dev: 0.1070 RSD: 33.68

Sample ID: 185556-1C
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03280138
Timestamp: 03/28/2006 05:26
Sample Type: Sample

not used 3-28-06

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	12.6067	50.4269	13706787	33.236	34.235	215
2	0.1426	0.5704	282384	33.369	34.368	64

<<<Statistics>>> Mean: 6.3747 Std Dev: 8.8134 RSD: 138.26

Sample ID: 185459-1A
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03280138
Timestamp: 03/28/2006 05:41
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.6531	6.6125	1909272	33.326	34.325	87
2	1.4992	5.9967	1743470	33.293	34.289	84

<<<Statistics>>> Mean: 1.5761 Std Dev: 0.1088 RSD: 6.90

Sample ID: 185459-2A
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03280138
Timestamp: 03/28/2006 05:55
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.4089	1.6355	569159	33.223	34.221	70
2	0.3874	1.5496	546047	33.049	34.048	72

<<<Statistics>>> Mean: 0.3981 Std Dev: 0.0152 RSD: 3.82

Sample ID: 185459-3A
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03280138
Timestamp: 03/28/2006 06:13
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time

1	2.1879	8.7517	2485295	33.099	34.099	192
2	2.2310	8.9240	2531673	33.234	34.232	181

<<<Statistics>>> Mean: 2.2095 Std Dev: 0.0305 RSD: 1.38

Sample ID: 185459-4A
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03280138
Timestamp: 03/28/2006 06:29
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.6865	26.7462	7330495	33.346	34.344	142
2	6.9042	27.6166	7564865	33.424	34.424	138

<<<Statistics>>> Mean: 6.7954 Std Dev: 0.1539 RSD: 2.27

Sample ID: 185459-5A
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03280138
Timestamp: 03/28/2006 06:44
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.7894	7.1575	2056024	33.434	34.425	82
2	1.6293	6.5171	1883601	33.552	34.551	84

<<<Statistics>>> Mean: 1.7093 Std Dev: 0.1132 RSD: 6.62

Sample ID: 185459-6A
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03280138
Timestamp: 03/28/2006 06:59
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.7894	7.1575	2056033	33.691	34.689	93
2	1.7743	7.0973	2039828	33.823	34.822	85

<<<Statistics>>> Mean: 1.7818 Std Dev: 0.0107 RSD: 0.60

Sample ID: 185459-7A
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03280138
Timestamp: 03/28/2006 07:13
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.7647	7.0588	2029449	33.830	34.826	85
2	1.7609	7.0434	2025311	33.936	34.933	85

<<<Statistics>>> Mean: 1.7628 Std Dev: 0.0027 RSD: 0.15

Sample ID: 185556-1BX2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03280138
Timestamp: 03/28/2006 07:31
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.0884	24.3537	6686280	34.093	35.092	179
2	6.1294	24.5178	6730468	34.193	35.192	138

<<<Statistics>>> Mean: 6.1089 Std Dev: 0.0290 RSD: 0.47

Sample ID: 15 ppm
Mode: TOC

Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Filename: 03280138
Timestamp: 03/28/2006 07:48
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.5963	58.3854	15950621	34.294	35.293	160
2	14.5474	58.1897	15897925	34.404	35.404	167

<<<Statistics>>> Mean: 14.5718 Std Dev: 0.0346 RSD: 0.24

TOC Std CS2952 Exp Jun 18-06,

icv / BSD

3 ml → 200 ml

@ 15 ppm

SY 3.28.06

Sample ID: ccb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03280138
Timestamp: 03/28/2006 08:02
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.3472	1.3887	502714	34.489	35.485	60
2	0.2075	0.8299	352265	34.338	35.330	60

<<<Statistics>>> Mean: 0.2774 Std Dev: 0.0988 RSD: 35.62

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111755
Date Started: 28-MAR-2006
Batched by : Sunitha Yerragodula

Analysis : TOC
Bgroup : N/A
Department : Wet Chemistry

Sample	Type	Client	Matrix	Analyses	Due Date
185408-003		Treadwell & Rollo	Water	TOC	21-MAR-2006
185408-004		Treadwell & Rollo	Water	TOC	21-MAR-2006
185408-005		Treadwell & Rollo	Water	TOC	21-MAR-2006
185459-001		CH2M Hill	Water	TOC	22-MAR-2006
185459-002		CH2M Hill	Water	TOC	22-MAR-2006
185459-003		CH2M Hill	Water	TOC	22-MAR-2006
185459-004		CH2M Hill	Water	TOC	22-MAR-2006
185459-005		CH2M Hill	Water	TOC	22-MAR-2006
185459-006		CH2M Hill	Water	TOC	22-MAR-2006
185459-007		CH2M Hill	Water	TOC	22-MAR-2006
185481-001		Columbo Bakery - I	Water	TOC	17-MAR-2006
185556-001		TRC Environmental	Water	TOC	21-MAR-2006
QC333314	BLANK		Water	TOC	
QC333315	BS		Water	TOC	
QC333316	BSD		Water	TOC	

632

REVISED
CW 4/27/06

Analysis:	**Total Inorganic & Organic Carbon**	Date Analyzed:	**28-Mar-06**
Method:	**EPA 415.2 / SMWW 5310c**	Batch #:	**111777**
Matrix:	Water	Analyst:	SY
Instrument:	Tekmar-Dorman		
SOP#:	toc_415_rv 7.doc		

Calibration Range: **0.5- 20ppm** Calibration Date: 16-Feb-05

Standard Conc (mg/L)	Injection Size (mL)	Expected ug C	ABS	RF
0	4.0	0	285214	
0.5	4.0	2.0	1020522	510261
1.0	4.0	4.0	1372216	343054
5.0	4.0	20.0	5433587	271679
10.0	4.0	40.0	10544965	263624
20.0	4.0	80.0	22033950	275424

Correlation Coefficient (r):	0.9995	Slope:	269261
R-Square:	0.9989	Intercept:	229731

Calibration Verification Data

	TOC (mg/L) True Value	Instrument "ppm C"	TOC (mg/L) Report	Recovery	Recovery Limits
ICV	10.0	9.11	9.1099	91%	90% - 110%
ICB	0.1	0.10	ND		
CCV	10.0	9.15	9.1467	91%	90% - 110%
CCB	0.1	0.23	ND		

Jason 3-28-6

Analysis:	**Total Inorganic & Organic Carbon**	Date Analyzed:	**28-Mar-06**
Method:	**EPA 415.2 / SMWW 5310c**	Batch #:	**111777**
Matrix:	Water	Analyst:	SY
Instrument:	Tekmar-Dorman		

Batch QC Data

Sample	PDF	Instrument "ppm C"	**TOC (mg/L) Report**	Reporting Limit (mg/L)	TOC Spike Level (mg/L)	Recovery,%	%RPD
BLANK	1	0.1007	**ND**	0.5			
LCS	1	9.1099	**9.1099**	0.5	10	91.1	
185408-2	1	11.0119	**11.0119**	0.5			
MS	2	10.4314	**20.8628**	1.0	10	98.5	
MSD	2	10.2399	**20.4798**	1.0	10	94.7	1.85

QC Limits	Recovery	RPD
LCS/ BS/ BSD	80 - 120	20
SSPIKE/ SDUP	80 - 135	20

Detailed Analysis Report Print Date/Time: 2006/03/28 13:14:33

Sample ID: blk
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03281111
Timestamp: 03/28/2006 11:24
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1913	0.7652	334826	34.273	35.273	69
2	0.1066	0.4263	243586	34.409	35.407	61

<<<Statistics>>> Mean: 0.1490 Std Dev: 0.0599 RSD: 40.21

Sample ID: icb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03281111
Timestamp: 03/28/2006 11:38
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1007	0.4028	237260	34.453	35.451	57
2	0.0861	0.3444	221539	34.469	35.459	55

<<<Statistics>>> Mean: 0.0934 Std Dev: 0.0103 RSD: 11.05

Sample ID: icv/lcs
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03281111
Timestamp: 03/28/2006 11:54
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.1099	36.4396	10041493	34.364	35.363	136
2	9.1750	36.7002	10111641	34.662	35.661	123

<<<Statistics>>> Mean: 9.1425 Std Dev: 0.0460 RSD: 0.50

Sample ID: 185408-2P
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03281111
Timestamp: 03/28/2006 12:11
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11.0119	44.0477	11989120	34.772	35.771	162
2	11.0591	44.2363	12039891	34.713	35.713	170

<<<Statistics>>> Mean: 11.0355 Std Dev: 0.0334 RSD: 0.30

Sample ID: 185408-2msX2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03281111
Timestamp: 03/28/2006 12:29
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.4314	41.7255	11363849	34.639	35.638	158
2	10.3406	41.3624	11266065	34.736	35.732	167

<<<Statistics>>> Mean: 10.3860 Std Dev: 0.0642 RSD: 0.62

Sample ID: 185408-2Omsdx2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03281111
Timestamp: 03/28/2006 12:45
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.2399	40.9594	11157561	34.447	35.444	128
2	10.1359	40.5434	11045547	34.559	35.557	116

<<<Statistics>>> Mean: 10.1879 Std Dev: 0.0735 RSD: 0.72

Sample ID: 10 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03281111
Timestamp: 03/28/2006 13:00
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.1467	36.5867	10081105	34.476	35.476	98
2	9.1252	36.5008	10057953	34.405	35.405	97

<<<Statistics>>> Mean: 9.1360 Std Dev: 0.0152 RSD: 0.17

Sample ID: ccb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03281111
Timestamp: 03/28/2006 13:14
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2349	0.9394	381749	34.414	35.407	62
2	0.1642	0.6569	305668	34.422	35.414	61

<<<Statistics>>> Mean: 0.1996 Std Dev: 0.0500 RSD: 25.05

Toc std: (S2952 Exp Jun-18-06)
boopp M
jcv/BSD
~~3ml~~ 2ml → 200
@ 10ppm
MS/MSD →
20ml of 10ppm + 20ml Sample
SY
3-28-06

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111777
Date Started: 28-MAR-2006
Batched by : Sunitha Yerragodula

Analysis : TOC
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185408-002			Treadwell & Rollo	Water	TOC	21-MAR-2006
QC333403	BLANK			Water	TOC	
QC333404	LCS			Water	TOC	
QC333405	MS	of 185408-002		Water	TOC	
QC333406	MSD	of 185408-002		Water	TOC	

Total Organic Carbon
by Walkley-Black Method
Method Detection Limit Study

Analysis:	**Total Organic Carbon**	Analysis Date:	**6-May-05**
Method:	EPA 415.2 / SM 5310C	Batch:	101838
Matrix:	Water	Analyst:	DW

Conc. (mg/L)	0.500
1	0.6200
2	0.5500
3	0.5500
4	0.5800
5	0.6200
6	0.6300
7	0.5500
STDEVP	0.034166
Student's t-value	3.143
ML (mg/L)	**0.1074**
RL (mg/L)	0.50
Status	PASS

Note: Student-T value for 7 replicates = 3.143, for 8 replicates = 2.998

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 185457

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.04.51
Location: Presidio

Sample ID	Lab ID	Sample ID	Lab ID
LF5GW103	185457-001	TB0309061A	185457-015
LF5GW102	185457-002	1349MW02	185457-016
1260GW102	185457-003	231PZ02	185457-017
DUP0309063A	185457-004	TB0310063A	185457-018
1349MW104	185457-005	DUP0309062A	185457-019
1349MW103	185457-006	950GW108	185457-020
LF5GW101	185457-007	1065PZ3B	185457-021
LF5GW100	185457-008	1065MW9B	185457-022
231GW10	185457-009	1065MW9A	185457-023
231GW30	185457-010	DUP0309062B	185457-024
231GW22	185457-011	1065MW11A	185457-025
DUP0309061A	185457-012	1065MW10B	185457-026
231GW16	185457-013	1065PZ6B	185457-027
1065PZ4A	185457-014		

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 4/10/06
Operations Manager

Signature: _____ Date: 4/6/06
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**185457**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**03/10/06**
Samples Received:	**03/10/06**

This hardcopy data package contains sample and QC results for twenty six water samples, requested for the above referenced project on 03/10/06. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):
High surrogate recovery was observed for trifluorotoluene (FID) in 231PZ02 (lab # 185457-017); the corresponding bromofluorobenzene (FID) surrogate recovery was within limits. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
High surrogate recovery was observed for hexacosane in the MSD of 1065PZ6B (lab # 185457-027). No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
Response exceeding the instrument's linear range was observed for trichloroethene in the MS for batch 111272; affected data was qualified with "b". No other analytical problems were encountered.

Pesticides (EPA 8081A):
High ICAL percent RSD (relative standard deviation) was observed for 4,4'-DDT in the calibration analyzed 03/10/06 22:03; average ICAL %RSD met method requirements, and this analyte was not detected at or above the RL in the associated samples. High responses were observed for methoxychlor in the ICV analyzed 03/03/06 19:07 and the ICV analyzed 03/11/06 01:54; average ICV drift met method requirements, and this analyte was not detected at or above the RL in the associated samples. Low responses were observed for 4,4'-DDT in the CCV analyzed 03/13/06 14:09, the CCV analyzed 03/13/06 22:26, and the CCV analyzed 03/16/06 00:28; average CCV drift met method requirements. No other analytical problems were encountered.

Polychlorinated Biphenyls (PCBs) (EPA 8082):
No analytical problems were encountered.

Polynuclear Aromatics by HPLC (EPA 8310):
No analytical problems were encountered.

Metals (EPA 6020 and EPA 7470A):
High recovery was observed for calcium in the MSD of 1065PZ6B (lab # 185457-027); the BS/BSD were within limits, and the associated RPD was within limits. Responses exceeding the instrument's linear range were observed for a number of analytes in the MS/MSD of 231GW10 (lab # 185457-009) and the MS/MSD

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**185457**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**03/10/06**
Samples Received:	**03/10/06**

Metals (EPA 6020 and EPA 7470A):
of 1349MW02 (lab # 185457-016). High % differences were observed for a number of analytes in the serial dilution of 231GW10 (lab # 185457-009), the serial dilution of 1349MW02 (lab # 185457-016), and the serial dilution of 1065PZ6B (lab # 185457-027). No other analytical problems were encountered.

Ion Chromatography (EPA 300.0):
No analytical problems were encountered.

Alkalinity (EPA 310.1):
No analytical problems were encountered.

Sulfide (EPA 376.2):
Low recovery was observed for sulfide in the MS of 231GW10 (lab # 185457-009); the LCS was within limits, and the associated RPD was within limits. Low recovery was observed for sulfide in the MSD of 1065PZ6B (lab # 185457-027); the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Total Dissolved Solids (TDS) (EPA 160.1):
No analytical problems were encountered.

Total Organic Carbon (TOC) (EPA 415.2):
No analytical problems were encountered.

Chain of Custody

Treadwell&Rollo
Environmental and Geotechnical Consultants
555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

185457

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2029
Page: 1 of ___

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): Blaine Tech, John DeJong
Recorder (signature required): [signature]
Sent to Laboratory (Name): CTT

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) MTBE	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	BTEX, MTBE	COMMENTS / NOTES
-1	LF5GW103	3/9/06	0940			X		6		1		6	X	X	X	X	X	X	X		X	X		
-2	LF5GW102		1050			X		6		1		6	X	X	X	X	X	X	X		X	X		
-3	1260GW102		1225			X		9				9	X	X	X							X	X	MS/MSD
-4	DUP0309063A		1230			X		3				3	X	X	X							X	X	
-5	1349MW104		1410			X		6		1		6	X	X	X	X	X	X	X		X	X		
-6	1349MW103		1535			X		6		1		6	X	X	X	X	X	X	X		X	X		

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY: [signature]	DATE: 3-10-6	RECEIVED BY: [signature]	DATE: 3.10.6
PRINT NAME: FIRM:	TIME: 1100	PRINT NAME: AARON GRENIER FIRM: CTT	TIME: 1100
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

White Copy - Original **Yellow Copy** - Laboratory **Pink Copy** - Field

Treadwell&Rollo
Environmental and Geotechnical Consultants
555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

185457

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. 0P 2030
Page: ___ of ___

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BB / SOOCH S. / PETE C.
Recorder (signature required):
Sent to Laboratory (Name): CTT

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) MTBE	General Chemistry [2]	OCPs (8081) ~~Metals~~	Metals - Dissolved [3] (23) 22, 13, 9, 8, 7, 3, Other)	Metals - ~~Total~~ Dissolved (23, 22, 13, 9, 8, 7, 3, ~~Other~~)	TDS (160.1)	PAHs (8310)	TOC	TOTAL SULFATE (15)	DISSOLVED METALS	BTEX/MTBE (14)			COMMENTS / NOTES
-7	LFSGW101	3/9/06	950			X		6		1		6	X	X	X	X	X	X	X		X	X							
-8	4FSGW100		1105			X		6		1		6	X	X	X	X	X	X	X		X	X							
-9	2316W10		1340			X	18	9	6	3		9	X	X	X	X	X			X	X		X	X					MS/MSD
-10	2316W30		1405			X	3.10	6	2	1		3	X	X	X	X	X			X	X		X	X					
-11	2316W22		1510			X		6	2	1		3	X	X	X	X	X			X	X		X	X					
-12	OWP030906 1A		1545			X		6	2	1		3	X	X	X	X	X			X	X		X	X					
-13	2316W16		1512			X		6	2	1		3	X	X	X	X	X			X	X		X	X					
-14	1065PZ4A		1625			X		3	2	1		3	X	X	X		X				X		X	X	X	X			
-15	TB030906 1A		—			X		2								X													

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY:	DATE: 3/10/06	RECEIVED BY:	DATE: 3/10/06
PRINT NAME: FIRM:	TIME: 1100	PRINT NAME: AARON GRENIER FIRM: CTT	TIME: 1100
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

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Treadwell&Rollo
Environmental and Geotechnical Consultants
555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

185457

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2031
Page: 1 of 2

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): Blaine Tech, Peter Cornish, John DeJong
Recorder (signature required): [signature]
Sent to Laboratory (Name): C+T

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) MTBE	General Chemistry [2]	OCPs (8081) PCBs	Metals - Dissolved [3] (22, 13, 9, 8, 7, 3, Other)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310) SGS	TOC, ~~Disp. Metals~~	Diss. Metals (14)	Total Solids				COMMENTS / NOTES
-16	1349MW02	3/10/06	0925			X		18		3		18	X	X	X	X	X	X	X		X	X							ms/msd
-17	231P202		0940			X		6	2			4	X	X	X	X	X				X		X	X	X				
-18	TB0310063A		—			X		2																					on hold

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists (23** - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (**13** - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (**9** - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (**8** - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY: [signature]	DATE: 3/10/6	RECEIVED BY: [signature]	DATE: 3.10.6
PRINT NAME: John DeJong FIRM: BTS	TIME: 1100	PRINT NAME: Aaron Grenier FIRM: C+T	TIME: 1100
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

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Environmental and Geotechnical Consultants
555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

185457

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2100
Page: ___ of ___

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTS / Mike Toll
Recorder (signature required): [signature]
Sent to Laboratory (Name): Curtis Thompkins

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) / MTBE	General Chemistry [2]	OCPs (8081)	Metals - Dissolved (23, 22, 13, 9, 8, 7, 3, Other) (15)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	Total Sulfide	TOC	BTEX / MTBE				COMMENTS / NOTES
-19	DUP030906 2A	3/9/06	1100			X		6				1	X	X	X	X													
-20	950 GW108		1115			X		18				3	X	X	X	X													MS/MSD
-21	1065 PZ3B		1225			X		3		1	1	2	X	X	X		X		X		X		X		X				
-22	1065 MW9B		1340			X		3		1	1	2	X	X	X		X		X		X		X		X				
-23	1065 MW9A		1420			X		3	3	1	1	2	X	X	X		X		X		X		X	X	X				
-24	DUP030906 2B		1400			X		3	3	1	1	2	X	X	X		X		X		X		X	X	X				
25	1065 MW11A		1315			X		3		1	1	2	X	X	X		X		X		X		X		X				
-26	1065 MW10B		1610			X		3		1	1	2	X	X	X		X		X		X		X		X				

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists (23** - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (15 As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) Al, SO) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY: [signature]	DATE:	RECEIVED BY: [signature]	DATE: 3/10/6
PRINT NAME: Mike Toll	FIRM: Blaine Tech Services TIME:	PRINT NAME: Aaron Greuter	FIRM: CTT TIME: 1100
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME:	FIRM: TIME:	PRINT NAME:	FIRM: TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

White Copy - Original **Yellow Copy** - Laboratory **Pink Copy** - Field

185457

Treadwell&Rollo

Environmental and Geotechnical Consultants

555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. 0P 2101
Page: 2 of 2

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTS / Mike Toll
Recorder (signature required): [signature]
Sent to Laboratory (Name): Curtis Thompkins

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260)	General Chemistry [2]	OCPs (8081)	Metals - Dissolved (23, 22, 13, 9, 8, 7, 3, Other) (15)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	Total Sulfide	BTEX / MTBE				COMMENTS / NOTES
-27	1065PZ6B	3/10/06	1035			X		9		3	3	6	X	X	X		X		X		X		X	X				MS/MSD
													•			•												

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists (23** - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (**15** - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) Al, Sb) (**9** - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (**8** - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (**7** - As, Cr, Cd, Cu, Pb, Ni and Zn) (**3** - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY: [signature]	DATE: 3.10.6	RECEIVED BY: [signature]	DATE: 3.10.06
PRINT NAME: Mike Toll FIRM: Blaine Tech Services	TIME: 1100	PRINT NAME: Aaron Greiner FIRM: CFT	TIME: 1100
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

White Copy - Original **Yellow Copy** - Laboratory **Pink Copy** - Field

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 185457 Date Received: 3-10-06 Number of Coolers: 10
Client: Treadwell & Rollo Project: Presidio

A. Preliminary Examination Phase
Date Opened: 3-10-06 By (print): Troy Windsor (sign) Troy Windsor

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES (NO)
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... (YES) NO
   How many and where? 1 per over cooler lip Seal date: ↓ some = none = 3-10 Seal name: Illegible
3. Were custody seals unbroken and intact at the date and time of arrival? ..... (YES) NO
4. Were custody papers dry and intact when received? ..... (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO
6. Did you sign the custody papers in the appropriate place? ..... (YES) NO
7. Was project identifiable from custody papers? ..... (YES) NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... (YES) NO
   Type of ice: Wet Temperature: 2.6 2.4 2.3 2.4 2.6 2.8 2.7 2.1 2.4 2.1

B. Login Phase
Date Logged In: 3-10-06 By (print): Troy Windsor (sign) Troy Windsor

1. Describe type of packing in cooler: In ziploc type bags
2. Did all bottles arrive unbroken? ..... (YES) NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ... (YES) NO
4. Did bottle labels agree with custody papers? ..... (YES) NO
5. Were appropriate containers used for the tests indicated? ..... (YES) NO
6. Were correct preservatives added to samples? ..... (YES) NO
7. Was sufficient amount of sample sent for tests indicated? ..... (YES) NO *
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... (YES) NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:
B7 - Sample -017 only six voas for TVH, 8260 & RSK-175

TOTAL VOLATILE HYDROCARBONS/

BTXE

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	LF5GW103	Batch#:	111217
Lab ID:	185457-001	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/12/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	65-135
Bromofluorobenzene (FID)	86	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	LF5GW102	Batch#:	111217
Lab ID:	185457-002	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/12/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	93	65-135
Bromofluorobenzene (FID)	83	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1260GW102	Batch#:	111203
Lab ID:	185457-003	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/10/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	110	65-135	EPA 8015B
Bromofluorobenzene (FID)	112	65-135	EPA 8015B
Trifluorotoluene (PID)	78	65-135	EPA 8021B
Bromofluorobenzene (PID)	83	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	DUP0309063A	Batch#:	111203
Lab ID:	185457-004	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/11/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	107	65-135	EPA 8015B
Bromofluorobenzene (FID)	107	65-135	EPA 8015B
Trifluorotoluene (PID)	82	65-135	EPA 8021B
Bromofluorobenzene (PID)	83	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1349MW104	Batch#:	111217
Lab ID:	185457-005	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/12/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	96	65-135
Bromofluorobenzene (FID)	88	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1349MW103	Batch#:	111217
Lab ID:	185457-006	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/12/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	94	65-135
Bromofluorobenzene (FID)	86	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	LF5GW101	Batch#:	111217
Lab ID:	185457-007	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/12/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	65-135
Bromofluorobenzene (FID)	87	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	LF5GW100	Batch#:	111217
Lab ID:	185457-008	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/12/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	65-135
Bromofluorobenzene (FID)	85	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	231GW10	Batch#:	111217
Lab ID:	185457-009	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/12/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	93	65-135
Bromofluorobenzene (FID)	84	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	231GW30	Batch#:	111211
Lab ID:	185457-010	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/12/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	65-135
Bromofluorobenzene (FID)	106	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	231GW22	Batch#:	111203
Lab ID:	185457-011	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/11/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	8,400	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	101	65-135
Bromofluorobenzene (FID)	120	65-135

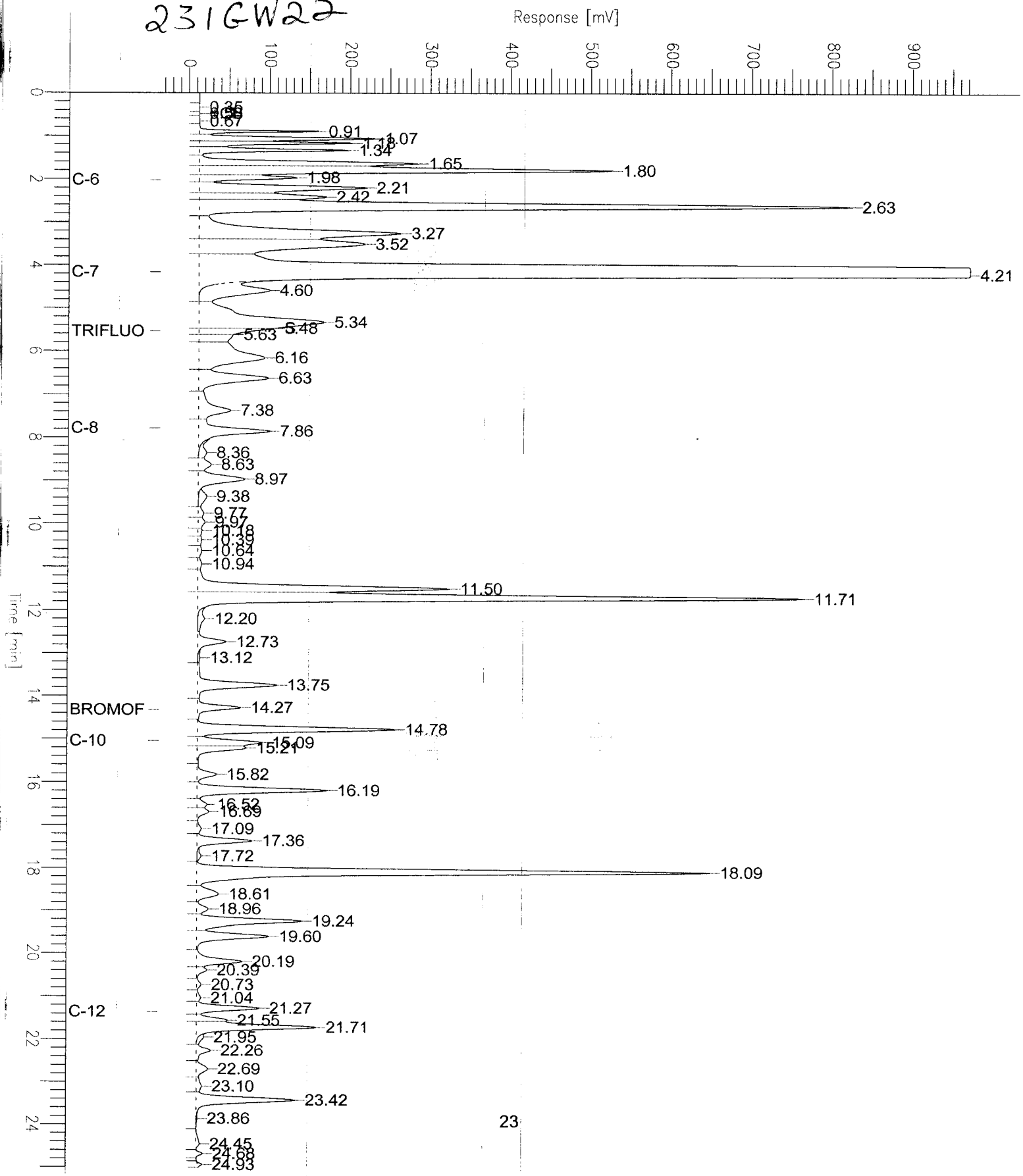
RL= Reporting Limit

Chromatogram

Sample Name : 185457-011,111203,tvh
FileName : G:\GC05\DATA\069G031.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 25.00 min
Scale Factor: 1.0 Plot Offset: -36 mV

Sample #: a1.3 Page 1 of 1
Date : 3/13/06 01:13 PM
Time of Injection: 3/11/06 07:04 AM
Low Point : -35.52 mV High Point : 972.32 mV
Plot Scale: 1007.8 mV

231GW22



Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	DUP0309061A	Batch#:	111226
Lab ID:	185457-012	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/13/06
Diln Fac:	5.000		

Analyte	Result	RL
Gasoline C7-C12	14,000 Z	250

Surrogate	%REC	Limits
Trifluorotoluene (FID)	120	65-135
Bromofluorobenzene (FID)	110	65-135

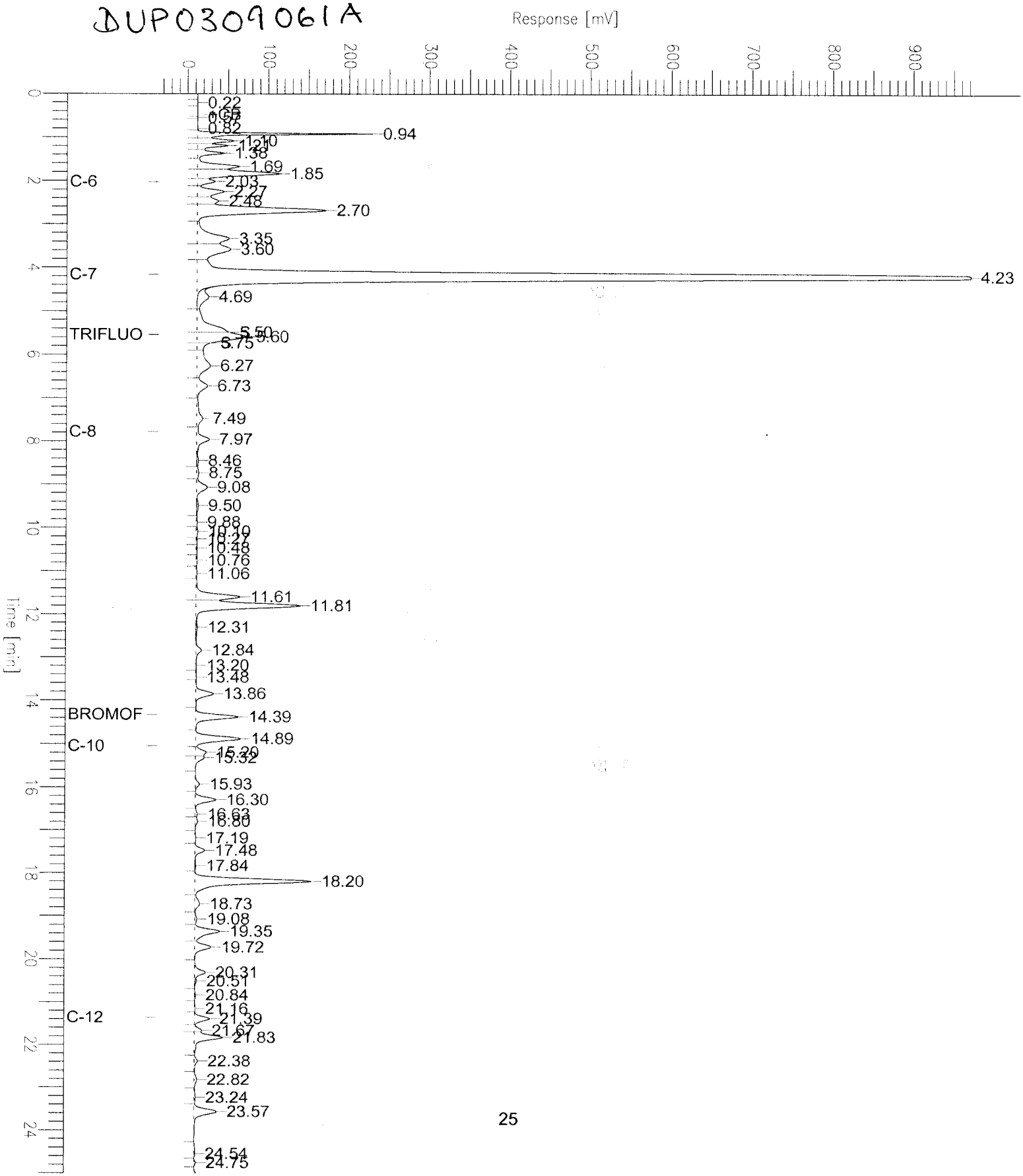
Z= Sample exhibits unknown single peak or peaks
RL= Reporting Limit

Chromatogram

Sample Name : 185457-012,111226,tvh
FileName : G:\GC05\DATA\072G007.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 25.00 min
Scale Factor: 1.0 Plot Offset: -36 mV

Sample #: e1.3 Page 1 of 1
Date : 3/14/06 09:11 AM
Time of Injection: 3/13/06 03:45 PM
Low Point : -35.89 mV High Point : 971.69 mV
Plot Scale: 1007.6 mV

DUP0309061A



Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	231GW16	Batch#:	111203
Lab ID:	185457-013	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/11/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	107	65-135
Bromofluorobenzene (FID)	105	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1065PZ4A	Batch#:	111203
Lab ID:	185457-014	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/11/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	111	65-135	EPA 8015B
Bromofluorobenzene (FID)	106	65-135	EPA 8015B
Trifluorotoluene (PID)	83	65-135	EPA 8021B
Bromofluorobenzene (PID)	85	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1349MW02	Batch#:	111217
Lab ID:	185457-016	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/12/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	91	65-135
Bromofluorobenzene (FID)	80	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	231PZ02	Batch#:	111203
Lab ID:	185457-017	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/11/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	780	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	156 *	65-135
Bromofluorobenzene (FID)	108	65-135

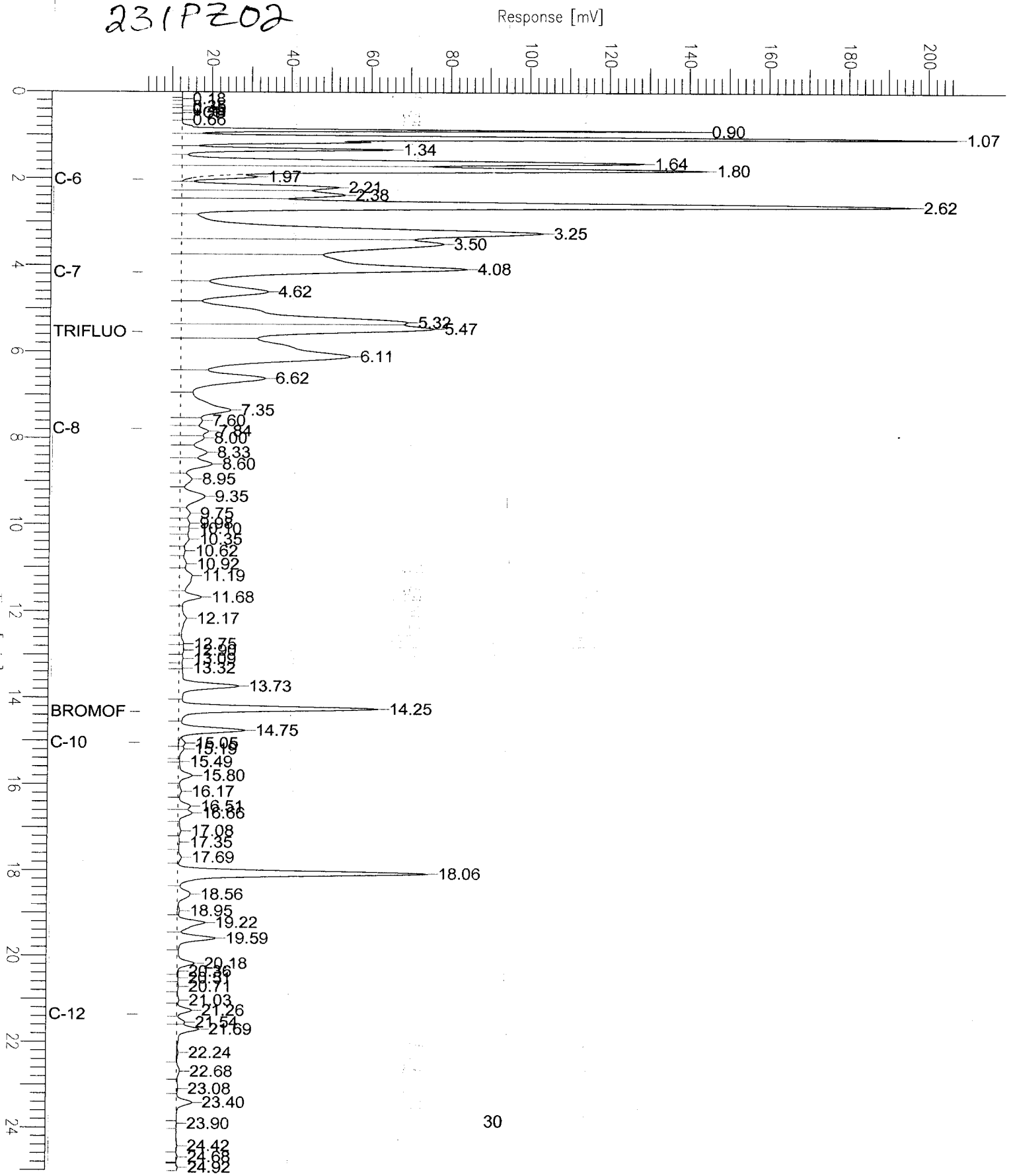
*= Value outside of QC limits; see narrative
RL= Reporting Limit

Chromatogram

Sample Name : 185457-017,111203,mbtxe+tvh
FileName : G:\GC05\DATA\069G032.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 25.00 min
Scale Factor: 1.0 Plot Offset: 3 mV

Sample #: a1.3 Page 1 of 1
Date : 3/11/06 08:00 AM
Time of Injection: 3/11/06 07:35 AM
Low Point : 2.73 mV High Point : 207.06 mV
Plot Scale: 204.3 mV

231PZ02



Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	DUP0309062A	Batch#:	111211
Lab ID:	185457-019	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/12/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	105	65-135
Bromofluorobenzene (FID)	104	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	950GW108	Batch#:	111217
Lab ID:	185457-020	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/12/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	96	65-135
Bromofluorobenzene (FID)	86	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1065PZ3B	Batch#:	111203
Lab ID:	185457-021	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/11/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	105	65-135	EPA 8015B
Bromofluorobenzene (FID)	102	65-135	EPA 8015B
Trifluorotoluene (PID)	77	65-135	EPA 8021B
Bromofluorobenzene (PID)	81	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1065MW9B	Batch#:	111203
Lab ID:	185457-022	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/11/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	104	65-135	EPA 8015B
Bromofluorobenzene (FID)	105	65-135	EPA 8015B
Trifluorotoluene (PID)	80	65-135	EPA 8021B
Bromofluorobenzene (PID)	82	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1065MW9A	Batch#:	111203
Lab ID:	185457-023	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/11/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	106	65-135	EPA 8015B
Bromofluorobenzene (FID)	102	65-135	EPA 8015B
Trifluorotoluene (PID)	79	65-135	EPA 8021B
Bromofluorobenzene (PID)	80	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	DUP0309062B	Batch#:	111203
Lab ID:	185457-024	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/11/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	108	65-135	EPA 8015B
Bromofluorobenzene (FID)	108	65-135	EPA 8015B
Trifluorotoluene (PID)	83	65-135	EPA 8021B
Bromofluorobenzene (PID)	85	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1065MW11A	Batch#:	111203
Lab ID:	185457-025	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/11/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	104	65-135	EPA 8015B
Bromofluorobenzene (FID)	101	65-135	EPA 8015B
Trifluorotoluene (PID)	75	65-135	EPA 8021B
Bromofluorobenzene (PID)	80	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1065MW10B	Batch#:	111203
Lab ID:	185457-026	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/11/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	107	65-135	EPA 8015B
Bromofluorobenzene (FID)	106	65-135	EPA 8015B
Trifluorotoluene (PID)	76	65-135	EPA 8021B
Bromofluorobenzene (PID)	83	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1065PZ6B	Batch#:	111203
Lab ID:	185457-027	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/11/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	105	65-135	EPA 8015B
Bromofluorobenzene (FID)	102	65-135	EPA 8015B
Trifluorotoluene (PID)	77	65-135	EPA 8021B
Bromofluorobenzene (PID)	79	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331048	Batch#:	111203
Matrix:	Water	Analyzed:	03/10/06
Units:	ug/L		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	114	65-135	EPA 8015B
Bromofluorobenzene (FID)	109	65-135	EPA 8015B
Trifluorotoluene (PID)	91	65-135	EPA 8021B
Bromofluorobenzene (PID)	90	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331078	Batch#:	111211
Matrix:	Water	Analyzed:	03/11/06
Units:	ug/L		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	109	65-135	EPA 8015B
Bromofluorobenzene (FID)	104	65-135	EPA 8015B
Trifluorotoluene (PID)	89	65-135	EPA 8021B
Bromofluorobenzene (PID)	86	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331110	Batch#:	111217
Matrix:	Water	Analyzed:	03/11/06
Units:	ug/L		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	100	65-135	EPA 8015B
Bromofluorobenzene (FID)	92	65-135	EPA 8015B
Trifluorotoluene (PID)	95	65-135	EPA 8021B
Bromofluorobenzene (PID)	91	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331151	Batch#:	111226
Matrix:	Water	Analyzed:	03/13/06
Units:	ug/L		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	108	65-135	EPA 8015B
Bromofluorobenzene (FID)	101	65-135	EPA 8015B
Trifluorotoluene (PID)	84	65-135	EPA 8021B
Bromofluorobenzene (PID)	85	65-135	EPA 8021B

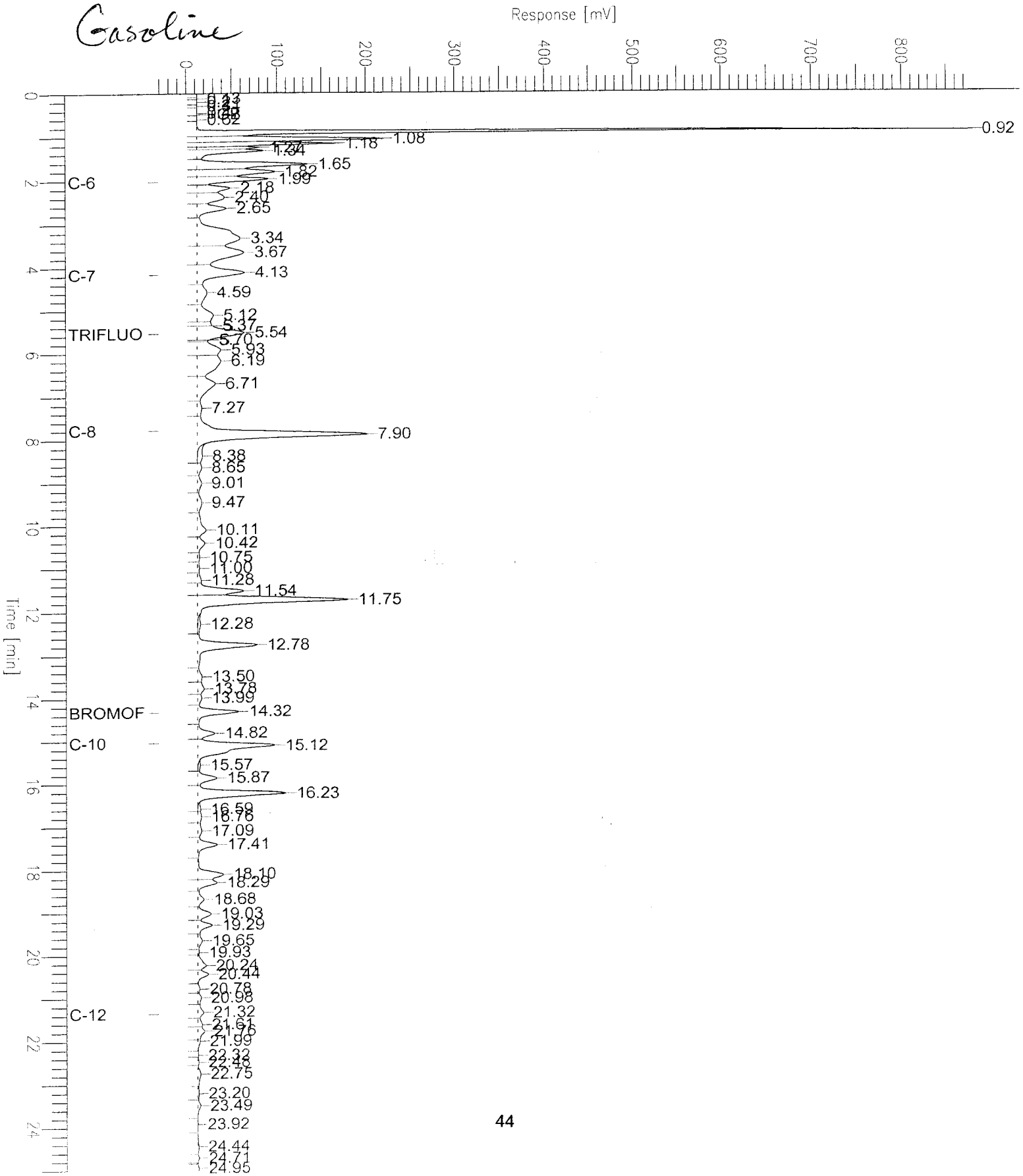
ND= Not Detected
RL= Reporting Limit

Chromatogram

Sample Name : ccv/lcs,qc331153,111226,s2869,5/5000
FileName : G:\GC05\DATA\072G003.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 25.00 min
Scale Factor: 1.0 Plot Offset: -31 mV

Sample #:
Date : 3/14/06 09:11 AM
Time of Injection: 3/13/06 09:12 AM
Low Point : -30.93 mV High Point : 879.65 mV
Plot Scale: 910.6 mV

Gasoline



Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8021B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331049	Batch#:	111203
Matrix:	Water	Analyzed:	03/10/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
MTBE	20.00	19.42	97	65-135
Benzene	20.00	18.31	92	65-135
Toluene	20.00	19.59	98	65-135
Ethylbenzene	20.00	19.36	97	65-135

Surrogate	%REC	Limits
Trifluorotoluene (PID)	96	65-135
Bromofluorobenzene (PID)	97	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331050	Batch#:	111203
Matrix:	Water	Analyzed:	03/10/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	1,910	95	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	129	65-135
Bromofluorobenzene (FID)	115	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331080	Batch#:	111211
Matrix:	Water	Analyzed:	03/11/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	2,024	101	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	134	65-135
Bromofluorobenzene (FID)	111	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331112	Batch#:	111217
Matrix:	Water	Analyzed:	03/11/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	2,018	101	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	115	65-135
Bromofluorobenzene (FID)	109	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331153	Batch#:	111226
Matrix:	Water	Analyzed:	03/13/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	1,753	88	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	119	65-135
Bromofluorobenzene (FID)	103	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1260GW102	Batch#:	111203
MSS Lab ID:	185457-003	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/10/06
Diln Fac:	1.000		

Type: MS Lab ID: QC331064

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	19.83	2,000	1,932	96	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	125	65-135
Bromofluorobenzene (FID)	114	65-135

Type: MSD Lab ID: QC331065

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,895	94	65-135	2	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	126	65-135
Bromofluorobenzene (FID)	118	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1065PZ6B	Diln Fac:	1.000
MSS Lab ID:	185457-027	Batch#:	111203
Matrix:	Water	Sampled:	03/10/06
Units:	ug/L	Received:	03/10/06

Type: MS Analyzed: 03/10/06
Lab ID: QC331066

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	12.56	2,000	1,889	94	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	131	65-135
Bromofluorobenzene (FID)	122	65-135

Type: MSD Analyzed: 03/11/06
Lab ID: QC331067

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,925	96	65-135	2	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	123	65-135
Bromofluorobenzene (FID)	114	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1260GW101	Batch#:	111211
MSS Lab ID:	185463-003	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/11/06
Diln Fac:	1.000		

Type: MS Lab ID: QC331108

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	13.67	2,000	2,022	100	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	134	65-135
Bromofluorobenzene (FID)	110	65-135

Type: MSD Lab ID: QC331109

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,997	99	65-135	1	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	128	65-135
Bromofluorobenzene (FID)	108	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	231GW10	Batch#:	111217
MSS Lab ID:	185457-009	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/12/06
Diln Fac:	1.000		

Type: MS Lab ID: QC331113

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	<27.03	2,000	1,884	94	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	113	65-135
Bromofluorobenzene (FID)	92	65-135

Type: MSD Lab ID: QC331114

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,893	95	65-135	1	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	119	65-135
Bromofluorobenzene (FID)	99	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1349MW02	Batch#:	111217
MSS Lab ID:	185457-016	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/12/06
Diln Fac:	1.000		

Type: MS Lab ID: QC331115

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	<27.03	2,000	1,890	95	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	117	65-135
Bromofluorobenzene (FID)	94	65-135

Type: MSD Lab ID: QC331116

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,921	96	65-135	2	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	117	65-135
Bromofluorobenzene (FID)	95	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	950GW108	Batch#:	111217
MSS Lab ID:	185457-020	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/12/06
Diln Fac:	1.000		

Type: MS Lab ID: QC331117

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	<27.03	2,000	1,949	97	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	119	65-135
Bromofluorobenzene (FID)	98	65-135

Type: MSD Lab ID: QC331118

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,933	97	65-135	1	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	121	65-135
Bromofluorobenzene (FID)	101	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	111226
MSS Lab ID:	185486-001	Sampled:	03/13/06
Matrix:	Water	Received:	03/13/06
Units:	ug/L	Analyzed:	03/13/06
Diln Fac:	1.000		

Type: MS Lab ID: QC331278

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	29.75	2,000	1,984	98	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	123	65-135
Bromofluorobenzene (FID)	110	65-135

Type: MSD Lab ID: QC331279

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,930	95	65-135	3	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	119	65-135
Bromofluorobenzene (FID)	112	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185457 GCVOA Water: EPA 8015B

Inst : GC05
Calnum : 315497353001
Units : ng

Name : tvh
Date : 11-DEC-2005 10:16
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	345_003	315497353003	tvh 1	11-DEC-2005 10:16	S1367 (1000X), S1895 (5000X)
L2	345_004	315497353004	tvh 2	11-DEC-2005 10:48	S1368 (1000X), S1895 (5000X)
L3	345_005	315497353005	tvh 3	11-DEC-2005 11:19	S1369 (1000X), S1895 (5000X)
L4	345_006	315497353006	tvh 4	11-DEC-2005 11:51	S1370 (2000X), S1895 (5000X)
L5	345_007	315497353007	tvh 5	11-DEC-2005 12:23	S1370 (1000X), S1895 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	G	1693.0	1307.5	1282.8	1171.1	1217.8	AVRG		7.49E-4		1334.5	16	0.995	20	

57

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

315497353001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185457 GCVOA Water
EPA 8015B

Inst : GC05 Name : tvh
Calnum : 315497353001 Cal Date: 11-DEC-2005

ICV 315497353010 (345_010 11-DEC-2005) stds: S2241 (1000X), S1895 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	G	10000	9115	ng	-9	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185457 GCVOA Water: EPA 8021B

Inst : GC05
Calnum : 316062601001
Units : ng

Name : MBTXE
Date : 12-FEB-2006 14:34
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	043_005	316062601005	btxe 1	12-FEB-2006 14:34	S2368 (1000X), S2543 (5000X)
L2	043_006	316062601006	mtbe 1	12-FEB-2006 15:06	S2367 (1250X), S2543 (5000X)
L3	043_007	316062601007	mbtxe 2	12-FEB-2006 15:38	S2367 (500X), S2543 (5000X)
L4	043_008	316062601008	mbtxe 3	12-FEB-2006 16:10	S2367 (125X), S2543 (5000X)
L5	043_009	316062601009	mbtxe 4	12-FEB-2006 16:42	S2366 (1000X), S2543 (5000X)
L6	043_010	316062601010	mbtxe 5	12-FEB-2006 17:13	S2366 (500X), S2543 (5000X)
L7	043_011	316062601011	mbtxe 6	12-FEB-2006 17:45	S2366 (250X), S2543 (5000X)
L8	043_012	316062601012	mtbe 7	12-FEB-2006 18:17	S1492 (500X), S2543 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
MTBE	H		500.50	507.40	495.60	549.62	570.21	548.04	496.84	AVRG		0.00191		524.03	6	0.995	20	
Benzene	H	1636.0		1390.9	1369.3	1430.7	1444.7	1442.5		AVRG		6.89E-4		1452.4	7	0.995	20	
Toluene	H	1558.0		1351.6	1324.7	1322.4	1342.2	1335.2		AVRG		7.29E-4		1372.3	7	0.995	20	
Ethylbenzene	H	1196.0		1171.3	1134.0	1149.3	1152.6	1141.2		AVRG		8.64E-4		1157.4	2	0.995	20	
m,p-Xylenes	H	1636.0		1404.5	1425.6	1414.8	1407.6	1395.4		AVRG		6.91E-4		1447.3	6	0.995	20	
o-Xylene	H	1328.0		1159.0	1154.6	1142.8	1149.6	1128.8		AVRG		8.50E-4		1177.1	6	0.995	20	
MTBE	I		134.10	153.84	165.11	209.16	228.42	230.46	215.86	AVRG		0.00524		190.99	20	0.995	20	
Benzene	I	424.80		443.80	505.67	580.08	602.82	619.99		AVRG		0.00189		529.53	16	0.995	20	
Toluene	I	342.00		413.68	471.62	538.20	562.15	579.48		AVRG		0.00206		484.52	19	0.995	20	
Ethylbenzene	I	315.26		373.81	422.87	485.20	502.89	521.53		AVRG		0.00229		436.93	19	0.995	20	
m,p-Xylenes	I	463.32		427.11	496.13	565.88	587.17	611.29		AVRG		0.00190		525.15	14	0.995	20	
o-Xylene	I	306.48		357.56	411.56	471.31	495.69	514.60		AVRG		0.00235		426.20	19	0.995	20	

59

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

316062601001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185457 GCVOA Water
EPA 8021B

Inst : GC05 Name : MBTXE
Calnum : 316062601001 Cal Date: 12-FEB-2006

ICV 316062601015 (043_015 12-FEB-2006) stds: S2157 (1000X), S2543 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
MTBE	H	100.0	84.56	ng	-15	15	
Benzene	H	100.0	100.9	ng	1	15	
Toluene	H	100.0	101.7	ng	2	15	
Ethylbenzene	H	100.0	100.4	ng	0	15	
m,p-Xylenes	H	200.0	205.6	ng	3	15	
o-Xylene	H	100.0	101.2	ng	1	15	
MTBE	I	100.0	87.71	ng	-12	15	
Benzene	I	100.0	111.3	ng	11	15	
Toluene	I	100.0	108.2	ng	8	15	
Ethylbenzene	I	100.0	107.9	ng	8	15	
m,p-Xylenes	I	200.0	217.8	ng	9	15	
o-Xylene	I	100.0	103.0	ng	3	15	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185457 GCVOA Water: EPA 8015B / EPA 8021B

Inst : GC05
Calnum : 316013420001
Units : ng

Name : TFT/BFB
Date : 09-JAN-2006 12:00
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	009_006	316013420006	tft/bfb 1	09-JAN-2006 12:00	S1889 (5000X)
L2	009_007	316013420007	tft/bfb 2	09-JAN-2006 12:32	S1890 (5000X)
L3	009_008	316013420008	tft/bfb 3	09-JAN-2006 13:04	S1891 (5000X)
L4	009_009	316013420009	tft/bfb 4	09-JAN-2006 13:42	S1892 (5000X)
L5	009_010	316013420010	tft/bfb 5	09-JAN-2006 14:13	S1893 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	G	1339.7	1422.7	1133.8	1120.9	1121.5	AVRG		8.15E-4		1227.7	12	0.995	20	
Bromofluorobenzene (FID)	G	858.52	958.51	732.70	751.93	754.50	AVRG		0.00123		811.23	12	0.995	20	
Trifluorotoluene (PID)	H	455.13	504.69	437.53	455.86	452.98	AVRG		0.00217		461.24	6	0.995	20	
Bromofluorobenzene (PID)	H	901.33	1032.5	919.64	956.84	945.96	AVRG		0.00105		951.26	5	0.995	20	
Trifluorotoluene (PID)	I	138.14	152.07	139.19	147.34	149.65	AVRG		0.00688		145.28	4	0.995	20	
Bromofluorobenzene (PID)	I	287.49	334.84	315.38	332.14	331.18	AVRG		0.00312		320.20	6	0.995	20	

61

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

316013420001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185457 GCVOA Water: EPA 8015B

Inst : GC19
Calnum : 345499226002
Units : ng

Name : tvh
Date : 13-DEC-2005 00:57
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	346_016	345499226016	tvh 1	13-DEC-2005 00:57	S1367 (1000X), S1895 (5000X)
L2	346_017	345499226017	tvh 2	13-DEC-2005 01:31	S1368 (1000X), S1895 (5000X)
L3	346_018	345499226018	tvh 3	13-DEC-2005 02:05	S1369 (1000X), S1895 (5000X)
L4	346_019	345499226019	tvh 4	13-DEC-2005 02:39	S1370 (2000X), S1895 (5000X)
L5	346_020	345499226020	tvh 5	13-DEC-2005 03:13	S1370 (1000X), S1895 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	X	641.76	620.02	560.35	524.50	528.99	AVRG		0.00174		575.12	9	0.995	20	

62

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

345499226002

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185457 GCVOA Water
EPA 8015B

Inst : GC19 Name : tvh
Calnum : 345499226002 Cal Date: 13-DEC-2005

ICV 345499226023 (346_023 13-DEC-2005) stds: S2241 (1000X), S1895 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	X	10000	9975	ng	0	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185457 GCVOA Water: EPA 8015B / EPA 8021B

Inst : GC19
Calnum : 346094312001
Units : ng

Name : TFT/BFB
Date : 06-MAR-2006 12:26
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	065_002	346094312002	tft/bfb 1	06-MAR-2006 12:26	S2572 (5000X)
L2	065_003	346094312003	tft/bfb 2	06-MAR-2006 13:02	S2573 (5000X)
L3	065_004	346094312004	tft/bfb 3	06-MAR-2006 13:36	S2574 (5000X)
L4	065_005	346094312005	tft/bfb 4	06-MAR-2006 15:06	S2575 (5000X)
L5	065_006	346094312006	tft/bfb 5	06-MAR-2006 15:39	S2576 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	X	508.60	475.91	507.41	450.67	516.53	AVRG		0.00203		491.82	6	0.995	20	
Bromofluorobenzene (FID)	X	407.38	365.69	358.49	313.79	357.80	AVRG		0.00277		360.63	9	0.995	20	
Trifluorotoluene (PID)	Y	353.57	340.49	349.89	315.56	357.16	AVRG		0.00291		343.33	5	0.995	20	
Bromofluorobenzene (PID)	Y	918.57	801.91	797.73	700.85	797.75	AVRG		0.00124		803.36	10	0.995	20	
Trifluorotoluene (PID)	Z	203.03	191.11	214.72	192.58	226.08	AVRG		0.00487		205.51	7	0.995	20	
Bromofluorobenzene (PID)	Z	563.93	499.82	502.80	441.99	503.45	AVRG		0.00199		502.40	9	0.995	20	

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AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

346094312001

CONTINUING CALIBRATION SUMMARY FOR 185457 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Gasoline C7-C12

Instid	Ch	Segnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	G	316100284002	10-MAR-2006 15:56	315497353001	11-DEC-2005	1334.5	1274.2	10000	9548.7	ng	-5	15	
GC05	G	316100284013	10-MAR-2006 21:42	315497353001	11-DEC-2005	1334.5	1305.4	15000	14674	ng	-2	15	
GC05	G	316100284014	10-MAR-2006 22:13	315497353001	11-DEC-2005	1334.5	1269.6	15000	14271	ng	-5	15	
GC05	G	316100284027	11-MAR-2006 04:59	315497353001	11-DEC-2005	1334.5	1249.9	5000.0	4683.3	ng	-6	15	
GC05	G	316100284028	11-MAR-2006 05:30	315497353001	11-DEC-2005	1334.5	1274.1	5000.0	4774.0	ng	-5	15	
GC05	G	316100284038	11-MAR-2006 10:42	315497353001	11-DEC-2005	1334.5	1321.8	10000.0	9905.0	ng	-1	15	
GC05	G	316101694003	11-MAR-2006 15:57	315497353001	11-DEC-2005	1334.5	1350.6	10000	10121	ng	1	15	
GC05	G	316101694014	11-MAR-2006 22:49	315497353001	11-DEC-2005	1334.5	1312.7	15000	14756	ng	-2	15	
GC05	G	316101694015	11-MAR-2006 23:21	315497353001	11-DEC-2005	1334.5	1315.1	15000	14783	ng	-1	15	
GC05	G	316101694026	12-MAR-2006 05:05	315497353001	11-DEC-2005	1334.5	1404.8	5000.0	5263.6	ng	5	15	
GC05	G	316104169003	13-MAR-2006 09:12	315497353001	11-DEC-2005	1334.5	1169.3	10000	8762.6	ng	-12	15	
GC05	G	316104169016	13-MAR-2006 20:30	315497353001	11-DEC-2005	1334.5	1341.8	15000	15083	ng	1	15	
GC05	G	316104169017	13-MAR-2006 21:01	315497353001	11-DEC-2005	1334.5	1310.4	15000	14729	ng	-2	15	
GC05	G	316104169029	14-MAR-2006 03:19	315497353001	11-DEC-2005	1334.5	1444.2	5000.0	5411.2	ng	8	15	
GC19	X	346101686003	11-MAR-2006 15:54	345499226002	13-DEC-2005	575.12	580.33	10000	10091	ng	1	15	
GC19	X	346101686012	11-MAR-2006 22:50	345499226002	13-DEC-2005	575.12	557.97	15000	14553	ng	-3	15	
GC19	X	346101686013	11-MAR-2006 23:23	345499226002	13-DEC-2005	575.12	552.87	15000	14420	ng	-4	15	
GC19	X	346101686024	12-MAR-2006 05:28	345499226002	13-DEC-2005	575.12	554.31	10000.0	9638.1	ng	-4	15	
GC19	X	346101686025	12-MAR-2006 06:02	345499226002	13-DEC-2005	575.12	559.49	10000.0	9728.2	ng	-3	15	
GC19	X	346101686035	12-MAR-2006 11:33	345499226002	13-DEC-2005	575.12	569.63	5000.0	4952.3	ng	-1	15	

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REVISED
CW 4/25/06

CONTINUING CALIBRATION SUMMARY FOR 185457 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: MTBE

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316100284001	10-MAR-2006 15:24	316062601001	12-FEB-2006	524.03	508.95	100.00	97.122	ng	-3	15	
GC05	I	316100284001	10-MAR-2006 15:24	316062601001	12-FEB-2006	190.99	194.01	100.00	101.58	ng	2	15	
GC05	H	316100284011	10-MAR-2006 20:39	316062601001	12-FEB-2006	524.03	463.50	150.00	132.67	ng	-12	15	
GC05	I	316100284011	10-MAR-2006 20:39	316062601001	12-FEB-2006	190.99	193.37	150.00	151.87	ng	1	15	
GC05	H	316100284012	10-MAR-2006 21:11	316062601001	12-FEB-2006	524.03	469.67	150.00	134.44	ng	-10	15	
GC05	I	316100284012	10-MAR-2006 21:11	316062601001	12-FEB-2006	190.99	186.18	150.00	146.22	ng	-3	15	
GC05	H	316100284026	11-MAR-2006 04:28	316062601001	12-FEB-2006	524.03	520.40	50.000	49.654	ng	-1	15	
GC05	I	316100284026	11-MAR-2006 04:28	316062601001	12-FEB-2006	190.99	170.66	50.000	44.677	ng	-11	15	
GC05	H	316100284036	11-MAR-2006 09:39	316062601001	12-FEB-2006	524.03	490.49	100.00	93.599	ng	-6	15	
GC05	I	316100284036	11-MAR-2006 09:39	316062601001	12-FEB-2006	190.99	169.59	100.00	88.792	ng	-11	15	
GC05	H	316101694002	11-MAR-2006 15:25	316062601001	12-FEB-2006	524.03	520.60	100.00	99.345	ng	-1	15	
GC05	I	316101694002	11-MAR-2006 15:25	316062601001	12-FEB-2006	190.99	179.18	100.00	93.816	ng	-6	15	
GC05	H	316101694012	11-MAR-2006 21:47	316062601001	12-FEB-2006	524.03	511.73	150.00	146.48	ng	-2	15	
GC05	I	316101694012	11-MAR-2006 21:47	316062601001	12-FEB-2006	190.99	189.01	150.00	148.44	ng	-1	15	
GC05	H	316104169002	13-MAR-2006 08:40	316062601001	12-FEB-2006	524.03	505.25	100.00	96.416	ng	-4	15	
GC05	I	316104169002	13-MAR-2006 08:40	316062601001	12-FEB-2006	190.99	165.78	100.00	86.800	ng	-13	15	
GC05	H	316104169014	13-MAR-2006 19:27	316062601001	12-FEB-2006	524.03	550.80	150.00	157.66	ng	5	15	
GC05	I	316104169014	13-MAR-2006 19:27	316062601001	12-FEB-2006	190.99	190.72	150.00	149.79	ng	0	15	

CONTINUING CALIBRATION SUMMARY FOR 185457 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Benzene

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316100284001	10-MAR-2006 15:24	316062601001	12-FEB-2006	1452.4	1329.4	100.00	91.534	ng	-8	15	
GC05	I	316100284001	10-MAR-2006 15:24	316062601001	12-FEB-2006	529.53	532.39	100.00	100.54	ng	1	15	
GC05	H	316100284011	10-MAR-2006 20:39	316062601001	12-FEB-2006	1452.4	1233.7	150.00	127.41	ng	-15	15	
GC05	I	316100284011	10-MAR-2006 20:39	316062601001	12-FEB-2006	529.53	540.93	150.00	153.23	ng	2	15	
GC05	H	316100284012	10-MAR-2006 21:11	316062601001	12-FEB-2006	1452.4	1281.1	150.00	132.31	ng	-12	15	
GC05	I	316100284012	10-MAR-2006 21:11	316062601001	12-FEB-2006	529.53	539.46	150.00	152.81	ng	2	15	
GC05	H	316100284026	11-MAR-2006 04:28	316062601001	12-FEB-2006	1452.4	1322.4	50.000	45.526	ng	-9	15	
GC05	I	316100284026	11-MAR-2006 04:28	316062601001	12-FEB-2006	529.53	470.96	50.000	44.470	ng	-11	15	
GC05	H	316100284036	11-MAR-2006 09:39	316062601001	12-FEB-2006	1452.4	1233.7	100.00	84.942	ng	-15	15	
GC05	I	316100284036	11-MAR-2006 09:39	316062601001	12-FEB-2006	529.53	489.56	100.00	92.453	ng	-8	15	
GC05	H	316101694002	11-MAR-2006 15:25	316062601001	12-FEB-2006	1452.4	1333.2	100.00	91.796	ng	-8	15	
GC05	I	316101694002	11-MAR-2006 15:25	316062601001	12-FEB-2006	529.53	514.90	100.00	97.237	ng	-3	15	
GC05	H	316101694012	11-MAR-2006 21:47	316062601001	12-FEB-2006	1452.4	1405.0	150.00	145.11	ng	-3	15	
GC05	I	316101694012	11-MAR-2006 21:47	316062601001	12-FEB-2006	529.53	549.15	150.00	155.56	ng	4	15	
GC05	H	316104169002	13-MAR-2006 08:40	316062601001	12-FEB-2006	1452.4	1396.5	100.00	96.154	ng	-4	15	
GC05	I	316104169002	13-MAR-2006 08:40	316062601001	12-FEB-2006	529.53	499.99	100.00	94.422	ng	-6	15	
GC05	H	316104169014	13-MAR-2006 19:27	316062601001	12-FEB-2006	1452.4	1409.1	150.00	145.54	ng	-3	15	
GC05	I	316104169014	13-MAR-2006 19:27	316062601001	12-FEB-2006	529.53	531.19	150.00	150.47	ng	0	15	

CONTINUING CALIBRATION SUMMARY FOR 185457 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Toluene

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316100284001	10-MAR-2006 15:24	316062601001	12-FEB-2006	1372.3	1344.1	100.00	97.942	ng	-2	15	
GC05	I	316100284001	10-MAR-2006 15:24	316062601001	12-FEB-2006	484.52	488.11	100.00	100.74	ng	1	15	
GC05	H	316100284011	10-MAR-2006 20:39	316062601001	12-FEB-2006	1372.3	1181.5	150.00	129.14	ng	-14	15	
GC05	I	316100284011	10-MAR-2006 20:39	316062601001	12-FEB-2006	484.52	485.41	150.00	150.28	ng	0	15	
GC05	H	316100284012	10-MAR-2006 21:11	316062601001	12-FEB-2006	1372.3	1242.5	150.00	135.80	ng	-9	15	
GC05	I	316100284012	10-MAR-2006 21:11	316062601001	12-FEB-2006	484.52	486.15	150.00	150.50	ng	0	15	
GC05	H	316100284026	11-MAR-2006 04:28	316062601001	12-FEB-2006	1372.3	1311.7	50.000	47.790	ng	-4	15	
GC05	I	316100284026	11-MAR-2006 04:28	316062601001	12-FEB-2006	484.52	446.53	50.000	46.080	ng	-8	15	
GC05	H	316100284036	11-MAR-2006 09:39	316062601001	12-FEB-2006	1372.3	1164.8	100.00	84.875	ng	-15	15	
GC05	I	316100284036	11-MAR-2006 09:39	316062601001	12-FEB-2006	484.52	433.36	100.00	89.441	ng	-11	15	
GC05	H	316101694002	11-MAR-2006 15:25	316062601001	12-FEB-2006	1372.3	1304.6	100.00	95.063	ng	-5	15	
GC05	I	316101694002	11-MAR-2006 15:25	316062601001	12-FEB-2006	484.52	464.25	100.00	95.816	ng	-4	15	
GC05	H	316101694012	11-MAR-2006 21:47	316062601001	12-FEB-2006	1372.3	1324.0	150.00	144.72	ng	-4	15	
GC05	I	316101694012	11-MAR-2006 21:47	316062601001	12-FEB-2006	484.52	487.22	150.00	150.83	ng	1	15	
GC05	H	316104169002	13-MAR-2006 08:40	316062601001	12-FEB-2006	1372.3	1341.0	100.00	97.716	ng	-2	15	
GC05	I	316104169002	13-MAR-2006 08:40	316062601001	12-FEB-2006	484.52	452.17	100.00	93.323	ng	-7	15	
GC05	H	316104169014	13-MAR-2006 19:27	316062601001	12-FEB-2006	1372.3	1338.9	150.00	146.35	ng	-2	15	
GC05	I	316104169014	13-MAR-2006 19:27	316062601001	12-FEB-2006	484.52	487.49	150.00	150.92	ng	1	15	

CONTINUING CALIBRATION SUMMARY FOR 185457 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Ethylbenzene

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316100284001	10-MAR-2006 15:24	316062601001	12-FEB-2006	1157.4	1120.3	100.00	96.795	ng	-3	15	
GC05	I	316100284001	10-MAR-2006 15:24	316062601001	12-FEB-2006	436.93	436.23	100.00	99.840	ng	0	15	
GC05	H	316100284011	10-MAR-2006 20:39	316062601001	12-FEB-2006	1157.4	992.97	150.00	128.69	ng	-14	15	
GC05	I	316100284011	10-MAR-2006 20:39	316062601001	12-FEB-2006	436.93	429.98	150.00	147.61	ng	-2	15	
GC05	H	316100284012	10-MAR-2006 21:11	316062601001	12-FEB-2006	1157.4	1060.3	150.00	137.41	ng	-8	15	
GC05	I	316100284012	10-MAR-2006 21:11	316062601001	12-FEB-2006	436.93	429.98	150.00	147.61	ng	-2	15	
GC05	H	316100284026	11-MAR-2006 04:28	316062601001	12-FEB-2006	1157.4	1049.3	50.000	45.332	ng	-9	15	
GC05	I	316100284026	11-MAR-2006 04:28	316062601001	12-FEB-2006	436.93	371.78	50.000	42.545	ng	-15	15	
GC05	H	316100284036	11-MAR-2006 09:39	316062601001	12-FEB-2006	1157.4	999.64	100.00	86.370	ng	-14	15	
GC05	I	316100284036	11-MAR-2006 09:39	316062601001	12-FEB-2006	436.93	382.41	100.00	87.522	ng	-12	15	
GC05	H	316101694002	11-MAR-2006 15:25	316062601001	12-FEB-2006	1157.4	1122.6	100.00	96.990	ng	-3	15	
GC05	I	316101694002	11-MAR-2006 15:25	316062601001	12-FEB-2006	436.93	412.45	100.00	94.397	ng	-6	15	
GC05	H	316101694012	11-MAR-2006 21:47	316062601001	12-FEB-2006	1157.4	1129.9	150.00	146.43	ng	-2	15	
GC05	I	316101694012	11-MAR-2006 21:47	316062601001	12-FEB-2006	436.93	432.91	150.00	148.62	ng	-1	15	
GC05	H	316104169002	13-MAR-2006 08:40	316062601001	12-FEB-2006	1157.4	1140.9	100.00	98.576	ng	-1	15	
GC05	I	316104169002	13-MAR-2006 08:40	316062601001	12-FEB-2006	436.93	398.84	100.00	91.283	ng	-9	15	
GC05	H	316104169014	13-MAR-2006 19:27	316062601001	12-FEB-2006	1157.4	1113.0	150.00	144.24	ng	-4	15	
GC05	I	316104169014	13-MAR-2006 19:27	316062601001	12-FEB-2006	436.93	426.01	150.00	146.25	ng	-2	15	

CONTINUING CALIBRATION SUMMARY FOR 185457 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: m,p-Xylenes

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316100284001	10-MAR-2006 15:24	316062601001	12-FEB-2006	1447.3	1433.9	100.00	99.072	ng	-1	15	
GC05	I	316100284001	10-MAR-2006 15:24	316062601001	12-FEB-2006	525.15	514.33	100.00	97.940	ng	-2	15	
GC05	H	316100284011	10-MAR-2006 20:39	316062601001	12-FEB-2006	1447.3	1321.7	150.00	136.98	ng	-9	15	
GC05	I	316100284011	10-MAR-2006 20:39	316062601001	12-FEB-2006	525.15	506.46	150.00	144.66	ng	-4	15	
GC05	H	316100284012	10-MAR-2006 21:11	316062601001	12-FEB-2006	1447.3	1314.6	150.00	136.25	ng	-9	15	
GC05	I	316100284012	10-MAR-2006 21:11	316062601001	12-FEB-2006	525.15	502.02	150.00	143.39	ng	-4	15	
GC05	H	316100284026	11-MAR-2006 04:28	316062601001	12-FEB-2006	1447.3	1314.7	50.000	45.417	ng	-9	15	
GC05	I	316100284026	11-MAR-2006 04:28	316062601001	12-FEB-2006	525.15	445.59	50.000	42.425	ng	-15	15	
GC05	H	316100284036	11-MAR-2006 09:39	316062601001	12-FEB-2006	1447.3	1260.8	100.00	87.111	ng	-13	15	
GC05	I	316100284036	11-MAR-2006 09:39	316062601001	12-FEB-2006	525.15	447.61	100.00	85.234	ng	-15	15	
GC05	H	316101694002	11-MAR-2006 15:25	316062601001	12-FEB-2006	1447.3	1370.5	100.00	94.695	ng	-5	15	
GC05	I	316101694002	11-MAR-2006 15:25	316062601001	12-FEB-2006	525.15	484.19	100.00	92.199	ng	-8	15	
GC05	H	316101694012	11-MAR-2006 21:47	316062601001	12-FEB-2006	1447.3	1394.4	150.00	144.52	ng	-4	15	
GC05	I	316101694012	11-MAR-2006 21:47	316062601001	12-FEB-2006	525.15	504.30	150.00	144.05	ng	-4	15	
GC05	H	316104169002	13-MAR-2006 08:40	316062601001	12-FEB-2006	1447.3	1425.9	100.00	98.519	ng	-1	15	
GC05	I	316104169002	13-MAR-2006 08:40	316062601001	12-FEB-2006	525.15	467.62	100.00	89.044	ng	-11	15	
GC05	H	316104169014	13-MAR-2006 19:27	316062601001	12-FEB-2006	1447.3	1424.7	150.00	147.66	ng	-2	15	
GC05	I	316104169014	13-MAR-2006 19:27	316062601001	12-FEB-2006	525.15	502.55	150.00	143.54	ng	-4	15	

CONTINUING CALIBRATION SUMMARY FOR 185457 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: o-Xylene

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316100284001	10-MAR-2006 15:24	316062601001	12-FEB-2006	1177.1	1168.5	100.00	99.264	ng	-1	15	
GC05	I	316100284001	10-MAR-2006 15:24	316062601001	12-FEB-2006	426.20	425.42	100.00	99.817	ng	0	15	
GC05	H	316100284011	10-MAR-2006 20:39	316062601001	12-FEB-2006	1177.1	1058.3	150.00	134.86	ng	-10	15	
GC05	I	316100284011	10-MAR-2006 20:39	316062601001	12-FEB-2006	426.20	417.66	150.00	146.99	ng	-2	15	
GC05	H	316100284012	10-MAR-2006 21:11	316062601001	12-FEB-2006	1177.1	1079.9	150.00	137.61	ng	-8	15	
GC05	I	316100284012	10-MAR-2006 21:11	316062601001	12-FEB-2006	426.20	418.70	150.00	147.36	ng	-2	15	
GC05	H	316100284026	11-MAR-2006 04:28	316062601001	12-FEB-2006	1177.1	1067.7	50.000	45.353	ng	-9	15	
GC05	I	316100284026	11-MAR-2006 04:28	316062601001	12-FEB-2006	426.20	367.35	50.000	43.096	ng	-14	15	
GC05	H	316100284036	11-MAR-2006 09:39	316062601001	12-FEB-2006	1177.1	1070.5	100.00	90.942	ng	-9	15	
GC05	I	316100284036	11-MAR-2006 09:39	316062601001	12-FEB-2006	426.20	369.03	100.00	86.586	ng	-13	15	
GC05	H	316101694002	11-MAR-2006 15:25	316062601001	12-FEB-2006	1177.1	1131.0	100.00	96.083	ng	-4	15	
GC05	I	316101694002	11-MAR-2006 15:25	316062601001	12-FEB-2006	426.20	400.46	100.00	93.959	ng	-6	15	
GC05	H	316101694012	11-MAR-2006 21:47	316062601001	12-FEB-2006	1177.1	1142.6	150.00	145.60	ng	-3	15	
GC05	I	316101694012	11-MAR-2006 21:47	316062601001	12-FEB-2006	426.20	422.81	150.00	148.81	ng	-1	15	
GC05	H	316104169002	13-MAR-2006 08:40	316062601001	12-FEB-2006	1177.1	1153.9	100.00	98.028	ng	-2	15	
GC05	I	316104169002	13-MAR-2006 08:40	316062601001	12-FEB-2006	426.20	384.16	100.00	90.136	ng	-10	15	
GC05	H	316104169014	13-MAR-2006 19:27	316062601001	12-FEB-2006	1177.1	1145.3	150.00	145.94	ng	-3	15	
GC05	I	316104169014	13-MAR-2006 19:27	316062601001	12-FEB-2006	426.20	416.30	150.00	146.52	ng	-2	15	

CONTINUING CALIBRATION SUMMARY FOR 185457 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Trifluorotoluene (FID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	G	316100284001	10-MAR-2006 15:24	316013420001	09-JAN-2006	1227.7	1433.9	450.00	525.58	ng	**17**	15	c+
GC05	G	316100284002	10-MAR-2006 15:56	316013420001	09-JAN-2006	1227.7	1588.4	450.00	582.20	ng	**29**	15	c+
GC05	G	316100284011	10-MAR-2006 20:39	316013420001	09-JAN-2006	1227.7	1356.4	450.00	497.16	ng	10	15	
GC05	G	316100284026	11-MAR-2006 04:28	316013420001	09-JAN-2006	1227.7	1292.0	450.00	473.58	ng	5	15	
GC05	G	316100284036	11-MAR-2006 09:39	316013420001	09-JAN-2006	1227.7	1330.9	450.00	487.83	ng	8	15	
GC05	G	316101694002	11-MAR-2006 15:25	316013420001	09-JAN-2006	1227.7	1287.3	450.00	471.84	ng	5	15	
GC05	G	316101694003	11-MAR-2006 15:57	316013420001	09-JAN-2006	1227.7	1646.2	450.00	603.38	ng	**34**	15	c+
GC05	G	316101694012	11-MAR-2006 21:47	316013420001	09-JAN-2006	1227.7	1264.0	450.00	463.29	ng	3	15	
GC05	G	316101694026	12-MAR-2006 05:05	316013420001	09-JAN-2006	1227.7	1391.1	450.00	509.90	ng	13	15	
GC05	G	316104169002	13-MAR-2006 08:40	316013420001	09-JAN-2006	1227.7	1207.7	450.00	442.67	ng	-2	15	
GC05	G	316104169003	13-MAR-2006 09:12	316013420001	09-JAN-2006	1227.7	1455.6	450.00	533.53	ng	**19**	15	c+
GC05	G	316104169008	13-MAR-2006 16:17	316013420001	09-JAN-2006	1227.7	1463.1	450.00	536.27	ng	**19**	15	c+
GC05	G	316104169014	13-MAR-2006 19:27	316013420001	09-JAN-2006	1227.7	1325.6	450.00	485.87	ng	8	15	
GC05	G	316104169029	14-MAR-2006 03:19	316013420001	09-JAN-2006	1227.7	1408.3	450.00	516.20	ng	15	15	
GC19	X	346101686002	11-MAR-2006 15:20	346094312001	06-MAR-2006	491.82	496.98	450.00	454.72	ng	1	15	
GC19	X	346101686003	11-MAR-2006 15:54	346094312001	06-MAR-2006	491.82	567.53	450.00	519.27	ng	15	15	
GC19	X	346101686012	11-MAR-2006 22:50	346094312001	06-MAR-2006	491.82	595.83	450.00	545.16	ng	**21**	15	c+
GC19	X	346101686024	12-MAR-2006 05:28	346094312001	06-MAR-2006	491.82	556.83	450.00	509.48	ng	13	15	
GC19	X	346101686035	12-MAR-2006 11:33	346094312001	06-MAR-2006	491.82	494.20	450.00	452.17	ng	0	15	

In house QC limits:
TFT - FID H2O:
69-137% rec
CW 4/25/06

+=high bias c=CCV

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REVISED
CW 4/25/06

CONTINUING CALIBRATION SUMMARY FOR 185457 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Bromofluorobenzene (FID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	G	316100284001	10-MAR-2006 15:24	316013420001	09-JAN-2006	811.23	928.25	450.00	514.91	ng	14	15	
GC05	G	316100284002	10-MAR-2006 15:56	316013420001	09-JAN-2006	811.23	932.90	450.00	517.49	ng	15	15	
GC05	G	316100284011	10-MAR-2006 20:39	316013420001	09-JAN-2006	811.23	875.96	450.00	485.91	ng	8	15	
GC05	G	316100284026	11-MAR-2006 04:28	316013420001	09-JAN-2006	811.23	797.03	450.00	442.13	ng	-2	15	
GC05	G	316100284036	11-MAR-2006 09:39	316013420001	09-JAN-2006	811.23	841.98	450.00	467.06	ng	4	15	
GC05	G	316101694002	11-MAR-2006 15:25	316013420001	09-JAN-2006	811.23	804.21	450.00	446.11	ng	-1	15	
GC05	G	316101694003	11-MAR-2006 15:57	316013420001	09-JAN-2006	811.23	897.89	450.00	498.07	ng	11	15	
GC05	G	316101694012	11-MAR-2006 21:47	316013420001	09-JAN-2006	811.23	800.05	450.00	443.80	ng	-1	15	
GC05	G	316101694026	12-MAR-2006 05:05	316013420001	09-JAN-2006	811.23	844.96	450.00	468.71	ng	4	15	
GC05	G	316104169002	13-MAR-2006 08:40	316013420001	09-JAN-2006	811.23	747.41	450.00	414.60	ng	-8	15	
GC05	G	316104169003	13-MAR-2006 09:12	316013420001	09-JAN-2006	811.23	831.72	450.00	461.37	ng	3	15	
GC05	G	316104169008	13-MAR-2006 16:17	316013420001	09-JAN-2006	811.23	805.67	450.00	446.92	ng	-1	15	
GC05	G	316104169014	13-MAR-2006 19:27	316013420001	09-JAN-2006	811.23	829.44	450.00	460.10	ng	2	15	
GC05	G	316104169029	14-MAR-2006 03:19	316013420001	09-JAN-2006	811.23	856.57	450.00	475.15	ng	6	15	
GC19	X	346101686002	11-MAR-2006 15:20	346094312001	06-MAR-2006	360.63	345.87	450.00	431.58	ng	-4	15	
GC19	X	346101686003	11-MAR-2006 15:54	346094312001	06-MAR-2006	360.63	393.15	450.00	490.58	ng	9	15	
GC19	X	346101686012	11-MAR-2006 22:50	346094312001	06-MAR-2006	360.63	369.80	450.00	461.44	ng	3	15	
GC19	X	346101686024	12-MAR-2006 05:28	346094312001	06-MAR-2006	360.63	331.10	450.00	413.15	ng	-8	15	
GC19	X	346101686035	12-MAR-2006 11:33	346094312001	06-MAR-2006	360.63	325.95	450.00	406.72	ng	-10	15	

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CONTINUING CALIBRATION SUMMARY FOR 185457 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Trifluorotoluene (PID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316100284001	10-MAR-2006 15:24	316013420001	09-JAN-2006	461.24	443.08	450.00	432.28	ng	-4	15	
GC05	I	316100284001	10-MAR-2006 15:24	316013420001	09-JAN-2006	145.28	165.07	450.00	511.31	ng	14	15	
GC05	H	316100284011	10-MAR-2006 20:39	316013420001	09-JAN-2006	461.24	389.91	450.00	380.41	ng	-15	15	
GC05	I	316100284011	10-MAR-2006 20:39	316013420001	09-JAN-2006	145.28	154.54	450.00	478.68	ng	6	15	
GC05	H	316100284026	11-MAR-2006 04:28	316013420001	09-JAN-2006	461.24	391.09	450.00	381.56	ng	-15	15	
GC05	I	316100284026	11-MAR-2006 04:28	316013420001	09-JAN-2006	145.28	138.25	450.00	428.22	ng	-5	15	
GC05	H	316100284036	11-MAR-2006 09:39	316013420001	09-JAN-2006	461.24	396.07	450.00	386.42	ng	-14	15	
GC05	I	316100284036	11-MAR-2006 09:39	316013420001	09-JAN-2006	145.28	143.88	450.00	445.66	ng	-1	15	
GC05	H	316101694002	11-MAR-2006 15:25	316013420001	09-JAN-2006	461.24	394.33	450.00	384.72	ng	-15	15	
GC05	I	316101694002	11-MAR-2006 15:25	316013420001	09-JAN-2006	145.28	142.44	450.00	441.22	ng	-2	15	
GC05	H	316101694012	11-MAR-2006 21:47	316013420001	09-JAN-2006	461.24	401.32	450.00	391.54	ng	-13	15	
GC05	I	316101694012	11-MAR-2006 21:47	316013420001	09-JAN-2006	145.28	141.70	450.00	438.93	ng	-2	15	
GC05	H	316104169002	13-MAR-2006 08:40	316013420001	09-JAN-2006	461.24	398.28	450.00	388.57	ng	-14	15	
GC05	I	316104169002	13-MAR-2006 08:40	316013420001	09-JAN-2006	145.28	133.34	450.00	413.02	ng	-8	15	
GC05	H	316104169008	13-MAR-2006 16:17	316013420001	09-JAN-2006	461.24	500.86	450.00	488.65	ng	9	15	
GC05	I	316104169008	13-MAR-2006 16:17	316013420001	09-JAN-2006	145.28	173.57	450.00	537.63	ng	**19**	15	c+
GC05	H	316104169014	13-MAR-2006 19:27	316013420001	09-JAN-2006	461.24	429.36	450.00	418.89	ng	-7	15	
GC05	I	316104169014	13-MAR-2006 19:27	316013420001	09-JAN-2006	145.28	149.22	450.00	462.21	ng	3	15	

In-House QC Limits:

TFT - PID -

~~BFB FID~~ H_2O:

mw 3/22/06

~~80-133 % Rec.~~

64-132 % Rec.

mw 3/22/06

+=high bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 185457 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Bromofluorobenzene (PID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316100284001	10-MAR-2006 15:24	316013420001	09-JAN-2006	951.26	925.98	450.00	438.04	ng	-3	15	
GC05	I	316100284001	10-MAR-2006 15:24	316013420001	09-JAN-2006	320.20	366.81	450.00	515.49	ng	15	15	
GC05	H	316100284011	10-MAR-2006 20:39	316013420001	09-JAN-2006	951.26	830.54	450.00	392.89	ng	-13	15	
GC05	I	316100284011	10-MAR-2006 20:39	316013420001	09-JAN-2006	320.20	339.52	450.00	477.15	ng	6	15	
GC05	H	316100284026	11-MAR-2006 04:28	316013420001	09-JAN-2006	951.26	767.49	450.00	363.06	ng	**-19**	15	c-
GC05	I	316100284026	11-MAR-2006 04:28	316013420001	09-JAN-2006	320.20	296.35	450.00	416.47	ng	-7	15	
GC05	H	316100284036	11-MAR-2006 09:39	316013420001	09-JAN-2006	951.26	799.54	450.00	378.23	ng	**-16**	15	c-
GC05	I	316100284036	11-MAR-2006 09:39	316013420001	09-JAN-2006	320.20	318.94	450.00	448.22	ng	0	15	
GC05	H	316101694002	11-MAR-2006 15:25	316013420001	09-JAN-2006	951.26	817.48	450.00	386.71	ng	-14	15	
GC05	I	316101694002	11-MAR-2006 15:25	316013420001	09-JAN-2006	320.20	313.27	450.00	440.25	ng	-2	15	
GC05	H	316101694012	11-MAR-2006 21:47	316013420001	09-JAN-2006	951.26	805.56	450.00	381.07	ng	-15	15	
GC05	I	316101694012	11-MAR-2006 21:47	316013420001	09-JAN-2006	320.20	309.83	450.00	435.42	ng	-3	15	
GC05	H	316104169002	13-MAR-2006 08:40	316013420001	09-JAN-2006	951.26	784.62	450.00	371.17	ng	**-18**	15	c-
GC05	I	316104169002	13-MAR-2006 08:40	316013420001	09-JAN-2006	320.20	286.49	450.00	402.61	ng	-11	15	
GC05	H	316104169008	13-MAR-2006 16:17	316013420001	09-JAN-2006	951.26	813.78	450.00	384.96	ng	-14	15	
GC05	I	316104169008	13-MAR-2006 16:17	316013420001	09-JAN-2006	320.20	330.33	450.00	464.23	ng	3	15	
GC05	H	316104169014	13-MAR-2006 19:27	316013420001	09-JAN-2006	951.26	854.27	450.00	404.12	ng	-10	15	
GC05	I	316104169014	13-MAR-2006 19:27	316013420001	09-JAN-2006	320.20	330.28	450.00	464.16	ng	3	15	

IN-House QC Limits

BFB-PID-H_2O:

80-120 %Rec,

-=low bias c=CCV

PROJECT GC05 Sequence by Bill

Notebook No. BL2051

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 11-DEC-2005

Sequence: 315497353 Instrument: GC05
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #5 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	345_001	X	ib			11-DEC-2005 09:13	1.0					1	
002	345_002	X	ib			11-DEC-2005 09:44	1.0					1	
003	345_003	ICAL	tvh 1			11-DEC-2005 10:16	1.0					2 1 pass	
004	345_004	ICAL	tvh 2			11-DEC-2005 10:48	1.0					3 1	
005	345_005	ICAL	tvh 3			11-DEC-2005 11:19	1.0					4 1	
006	345_006	ICAL	tvh 4			11-DEC-2005 11:51	1.0					5 1	
007	345_007	ICAL	tvh 5			11-DEC-2005 12:23	1.0					5 1	
008	345_008	X	ib			11-DEC-2005 12:55	1.0					1	
009	345_009	X	tvh			11-DEC-2005 13:26	1.0		5000			6 1 Not used	
010	345_010	ICV	tvh			11-DEC-2005 13:58	1.0		5000			7 1 pass	
011	345_011	X	ib			11-DEC-2005 14:30	1.0					1	
012	345_012	X	carbmark			11-DEC-2005 15:02	1.0					8 9 1	

Stds used: 1=S1895 2=S1367 3=S1368 4=S1369 5=S1370 6=S2152 7=S2241 8=S1645 9=S1646

Analyst: Date: 12/13/05

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Signed 12/13/05 Date

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PROJECT GCA Sequence by Bank

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 345499226 Instrument: GC19
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #19 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 12-DEC-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds Used	>LR
001	346_001	X	ib			12-DEC-2005 16:26	1.0						1	
002	346_002	X	ib			12-DEC-2005 17:00	1.0						1	
003	346_003	ICAL	btxe 1			12-DEC-2005 17:35	1.0						2 1 pass	
004	346_004	ICAL	mtbe 1			12-DEC-2005 18:09	1.0						3 1	
005	346_005	ICAL	btxe 2			12-DEC-2005 18:43	1.0						3 1	
006	346_006	ICAL	btxe 3			12-DEC-2005 19:17	1.0						3 1	
007	346_007	ICAL	btxe 4			12-DEC-2005 19:51	1.0						4 1	
008	346_008	ICAL	btxe 5			12-DEC-2005 20:25	1.0						4 1	
009	346_009	ICAL	btxe 6			12-DEC-2005 20:59	1.0						4 1	
010	346_010	ICAL	mtbe 7			12-DEC-2005 21:33	1.0						5 1	
011	346_011	X	ib			12-DEC-2005 22:07	1.0						1	
012	346_012	X	mbtxe			12-DEC-2005 22:41	1.0						6 1 not used	
013	346_013	ICV	mbtxe			12-DEC-2005 23:15	1.0	1		5000			6 1 pass	
014	346_014	X	ib			12-DEC-2005 23:49	1.0						1	
015	346_015	X	ib			13-DEC-2005 00:23	1.0						1	
016	346_016	ICAL	tvh 1			13-DEC-2005 00:57	1.0						7 1 pass	
017	346_017	ICAL	tvh 2			13-DEC-2005 01:31	1.0						8 1	
018	346_018	ICAL	tvh 3			13-DEC-2005 02:05	1.0						9 1	
019	346_019	ICAL	tvh 4			13-DEC-2005 02:39	1.0						10 1	
020	346_020	ICAL	tvh 5			13-DEC-2005 03:13	1.0						10 1	
021	346_021	X	ib			13-DEC-2005 03:47	1.0						1	
022	346_022	X	tvh			13-DEC-2005 04:21	1.0						11 1 Not used	
023	346_023	ICV	tvh			13-DEC-2005 04:55	1.0			5000			11 1 pass	
024	346_024	X	ib			13-DEC-2005 05:29	1.0						1	
025	346_025	X	carbmark			13-DEC-2005 06:03	1.0						12 13 1 use	

Stds used: 1=S1895 2=S1489 3=S1490 4=S1491 5=S1492 6=S2157 7=S1367 8=S1368 9=S1369 10=S1370 11=S2241 12=S1645 13=S1646

Analyst: [signature] Date: 12/14/05

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Read and Understood By [signature] Signed 12/14/05 Date

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316013420 Instrument: GC05
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #5 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 09-JAN-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL (USED)	pH	Stds Used	>LR
001	009_001	X	ib			09-JAN-2006 07:40	1.0						1	
002	009_002	X	mbtxe		Water	09-JAN-2006 08:11	1.0						2 1 Not used	
003	009_003	X	gas		Water	09-JAN-2006 08:43	1.0						3 1	
004	009_004	X	ib			09-JAN-2006 09:14	1.0						1	
005	009_005	X	ib			09-JAN-2006 11:29	1.0						1	
006	009_006	ICAL	tft/bfb 1			09-JAN-2006 12:00	1.0						4 PASS/USE	
007	009_007	ICAL	tft/bfb 2			09-JAN-2006 12:32	1.0						5	
008	009_008	ICAL	tft/bfb 3			09-JAN-2006 13:04	1.0						6	
009	009_009	ICAL	tft/bfb 4			09-JAN-2006 13:42	1.0						7	
010	009_010	ICAL	tft/bfb 5			09-JAN-2006 14:13	1.0						8	
011	009_011	X	ib			09-JAN-2006 15:31	1.0						1	
012	009_012	CCV/LCS	QC323487	109331	Soil	09-JAN-2006 16:03	1.0			5000			2 1 PASS/USE	
013	009_013	CCV/LCS	QC323488	109331	Soil	09-JAN-2006 16:35	1.0		1	5000			3 1	
014	009_014	BLANK	QC323486	109331	Soil	09-JAN-2006 17:06	1.0	4		5000			1 ≤ 1/2 RL	
015	009_015	MSS	184210-025	109331	Soil	09-JAN-2006 18:44	1.0	1		5000	Imp		1	
016	009_016	MS	QC323558	109331	Soil	09-JAN-2006 19:15	1.0		2	5000			3 1 PASS/USE	
017	009_017	MSD	QC323559	109331	Soil	09-JAN-2006 19:47	1.0		2	5000			3 1	
018	009_018	SAMPLE	184210-019	109331	Soil	09-JAN-2006 20:18	1.0			5000			1	
019	009_019	SAMPLE	184210-020	109331	Soil	09-JAN-2006 20:50	1.0			5000			1	
020	009_020	SAMPLE	184210-021	109331	Soil	09-JAN-2006 21:22	1.0			5000			1	
021	009_021	SAMPLE	184210-022	109331	Soil	09-JAN-2006 21:53	1.0			5000			1	
022	009_022	CCV	btxe	109331		09-JAN-2006 22:25	1.0			5000			2 1 PASS/USE	
023	009_023	CCV	btxe	109331		09-JAN-2006 22:56	1.0			5000			2 1	
024	009_024	CCV	tvh	109331		09-JAN-2006 23:28	1.0			5000			3 1	
025	009_025	CCV	tvh	109331		09-JAN-2006 23:59	1.0			5000			3 1	
026	009_026	SAMPLE	184210-023	109331	Soil	10-JAN-2006 00:31	1.0			5000	Imp		1	
027	009_027	SAMPLE	184210-024	109331	Soil	10-JAN-2006 01:03	1.0		6	5000			1	
028	009_028	SAMPLE	184210-024	109331	Soil	10-JAN-2006 07:38	1.0			5000			1	
029	009_029	SAMPLE	184210-026	109331	Soil	10-JAN-2006 08:09	1.0	1	2	5000			1	1:BR4FBZ=1175.89
030	009_030	SAMPLE	184210-027	109331	Soil	10-JAN-2006 08:41	1.0			5000			1	

Stds used: 1=S1895 2=S2369 3=S2400 4=S1889 5=S1890 6=S1891 7=S1892 8=S1893

Analyst: [signature] Date: 01/10/06
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Sent used in QC EM 128974-M104164

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316013420 Instrument: GC05
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #5 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 09-JAN-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL (CODE ID)	pH	Stds Used	>LR
031	009_031	CCV	btxe	109331		10-JAN-2006 09:12	1.0			5000			2 1 PASS/USE	
032	009_032	CCV	tvh	109331		10-JAN-2006 09:44	1.0			5000			3 1	

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Stds used: 1=S1895 2=S2369 3=S2400 4=S1889 5=S1890 6=S1891 7=S1892 8=S1893

Analyst: [signature] Date: 01/10/06
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[signature] 1/10/06 Signed Date

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PROJECT GC05 Sequence Log Book

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316062601 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 12-FEB-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC SPK uL	VL	pH	Stds Used	>LR
001	043_001	X	ib			12-FEB-2006 11:21	1.0				1	
002	043_002	X	mbtxe check			12-FEB-2006 11:52	1.0				2 1 Not used	
003	043_003	X	ib			12-FEB-2006 12:24	1.0				1	
004	043_004	X	ib			12-FEB-2006 14:02	1.0				1	
005	043_005	ICAL	btxe 1			12-FEB-2006 14:34	1.0				3 1 Pass/use	
006	043_006	ICAL	mtbe 1			12-FEB-2006 15:06	1.0				4 1	
007	043_007	ICAL	mbtxe 2			12-FEB-2006 15:38	1.0				4 1	
008	043_008	ICAL	mbtxe 3			12-FEB-2006 16:10	1.0				4 1	
009	043_009	ICAL	mbtxe 4			12-FEB-2006 16:42	1.0				5 1	
010	043_010	ICAL	mbtxe 5			12-FEB-2006 17:13	1.0				5 1	
011	043_011	ICAL	mbtxe 6			12-FEB-2006 17:45	1.0				5 1	
012	043_012	ICAL	mtbe 7			12-FEB-2006 18:17	1.0				6 1	
013	043_013	X	ib			12-FEB-2006 18:49	1.0				1	
014	043_014	X	mbtxe			12-FEB-2006 19:21	1.0				7 1 Not used	
015	043_015	ICV	mbtxe			12-FEB-2006 19:53	1.0	5000			7 1 Pass/use	

Stds used: 1=S2543 2=S2650 3=S2368 4=S2367 5=S2366 6=S1492 7=S2157

Analyst: [signature] Date: 02/13/06

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[signature] 02/13/06

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PROJECT GC19 Sequence Log Book

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 346094312 Instrument: GC19
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #19 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 06-MAR-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	065_001	X	ib			06-MAR-2006 11:52	1.0					1	
002	065_002	ICAL	tft/bfb 1			06-MAR-2006 12:26	1.0					2 PASS/USE	
003	065_003	ICAL	tft/bfb 2			06-MAR-2006 13:02	1.0					3	
004	065_004	ICAL	tft/bfb 3			06-MAR-2006 13:36	1.0					4	
005	065_005	ICAL	tft/bfb 4			06-MAR-2006 15:06	1.0					5	
006	065_006	ICAL	tft/bfb 5			06-MAR-2006 15:39	1.0					6	
007	065_007	X	ib			06-MAR-2006 16:36	1.0					1	
008	065_008	ICAL	btxe 1			06-MAR-2006 17:10	1.0					7 1 PASS/USE	
009	065_009	ICAL	mtbe 1			06-MAR-2006 17:44	1.0					8 1	
010	065_010	ICAL	btxe 2			06-MAR-2006 18:18	1.0					8 1	
011	065_011	ICAL	btxe 3			06-MAR-2006 18:52	1.0					8 1	
012	065_012	ICAL	btxe 4			06-MAR-2006 19:26	1.0					9 1	
013	065_013	ICAL	btxe 5			06-MAR-2006 20:00	1.0					9 1	
014	065_014	ICAL	btxe 6			06-MAR-2006 20:34	1.0					9 1	
015	065_015	ICAL	mtbe 7			06-MAR-2006 21:08	1.0					10 1	
016	065_016	X	ib			06-MAR-2006 21:42	1.0					1	
017	065_017	ICV	mbtxe			06-MAR-2006 22:16	1.0		5000			11 1 PASS/USE	
018	065_018	X	mbtxe			06-MAR-2006 22:50	1.0					11 1 Not used	

Stds used: 1=S2543 2=S2572 3=S2573 4=S2574 5=S2575 6=S2576 7=S2850 8=S2849 9=S2848 10=S2847 11=S2157

Analyst: Micah [signature] Date: 03/07/06

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Micah [signature] 03/07/06

Signed [signature] Date 3/7/06

Read and Understood By 80 [signature] Signed [signature] Date 3/07/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316100284 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 10-MAR-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	069_001	CCV/LCS	QC331049	111203	Water	10-MAR-2006 15:24	1.0			5000			1 2 PASS/USE	
002	069_002	CCV/LCS	QC331050	111203	Water	10-MAR-2006 15:56	1.0			5000			3 2 ↓	
003	069_003	BLANK	QC331048	111203	Water	10-MAR-2006 16:27	1.0	2		5000			2 ≤1/2 RL	
004	069_004	SAMPLE	185430-001	111203	Water	10-MAR-2006 16:59	1.0			5000	A	1.3	2	
005	069_005	SAMPLE	185430-002	111203	Water	10-MAR-2006 17:30	1.0			5000	↓	↓	2	
006	069_006	SAMPLE	185430-003	111203	Water	10-MAR-2006 18:02	1.0	5	1	5000	↓	↓	2 RR OSA	5:EBZ=4590.42
007	069_007	SAMPLE	185430-004	111203	Water	10-MAR-2006 18:33	1.0	9	3	5000	↓	1.6	2 ↓	12:GAS:7-=75148.7
008	069_008	SAMPLE	185430-005	111203	Water	10-MAR-2006 19:05	1.0	1	1	5000	↓	↓	2	1:EBZ=2026.45
009	069_009	SAMPLE	185430-006	111203	Water	10-MAR-2006 19:36	1.0	1	1	5000	↓	1.3	2	1:EBZ=2067.33
010	069_010	MSS	185457-003	111203	Water	10-MAR-2006 20:08	1.0	2		5000	↓	↓	2	
011	069_011	CCV	btxe	111203		10-MAR-2006 20:39	1.0			5000			1 2 PASS/USE	
012	069_012	CCV	btxe	111203		10-MAR-2006 21:11	1.0			5000			1 2	
013	069_013	CCV	tvh	111203		10-MAR-2006 21:42	1.0			5000			3 2	
014	069_014	CCV	tvh	111203		10-MAR-2006 22:13	1.0			5000			3 2	
015	069_015	MS	QC331064	111203	Water	10-MAR-2006 22:44	1.0			5000	A	1.3	3 2	
016	069_016	MSD	QC331065	111203	Water	10-MAR-2006 23:15	1.0		1	5000			3 2	
017	069_017	MS	QC331066	111203	Water	10-MAR-2006 23:47	1.0		1	5000			3 2	
018	069_018	MSD	QC331067	111203	Water	11-MAR-2006 00:18	1.0		1	5000			3 2	
019	069_019	SAMPLE	185457-004	111203	Water	11-MAR-2006 00:49	1.0	2		5000			2	
020	069_020	SAMPLE	185457-014	111203	Water	11-MAR-2006 01:21	1.0	2		5000			2	
021	069_021	SAMPLE	185457-021	111203	Water	11-MAR-2006 01:52	1.0	2		5000			2	
022	069_022	SAMPLE	185457-022	111203	Water	11-MAR-2006 02:23	1.0	2		5000		↓	2	
023	069_023	SAMPLE	185457-023	111203	Water	11-MAR-2006 02:55	1.0	2		5000		1.6	2	
024	069_024	SAMPLE	185457-024	111203	Water	11-MAR-2006 03:26	1.0	2		5000	↓	↓	2	
025	069_025	CCV	btxe	111203		11-MAR-2006 03:57	1.0	1		5000			1 2 PASS Not used Fl cont none	
026	069_026	CCV	btxe	111203		11-MAR-2006 04:28	1.0			5000			1 2 PASS/USE	
027	069_027	CCV	tvh	111203		11-MAR-2006 04:59	1.0			5000			3 2	
028	069_028	CCV	tvh	111203		11-MAR-2006 05:30	1.0			5000			3 2	
029	069_029	SAMPLE	185430-007	111203	Water	11-MAR-2006 06:02	100.0			5000	B	1.3	2	
030	069_030	SAMPLE	185457-013	111203	Water	11-MAR-2006 06:33	1.0	1		5000	A	↓	2	

Stds used: 1=S2650 2=S2543 3=S2869

Analyst: [signature] Date: 03/13/06

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Darlene J. Perez 3/13/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316100284 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 10-MAR-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
031	069_031	SAMPLE	185457-011	111203	Water	11-MAR-2006 07:04	1.0	1		5000	A	1.3	2	5:BZ=15603.7
032	069_032	SAMPLE	185457-017	111203	Water	11-MAR-2006 07:35	1.0	1	1	5000			2	
033	069_033	SAMPLE	185457-025	111203	Water	11-MAR-2006 08:06	1.0	1		5000			2	
034	069_034	SAMPLE	185457-026	111203	Water	11-MAR-2006 08:37	1.0	1		5000			2	
035	069_035	MSS	185457-027	111203	Water	11-MAR-2006 09:08	1.0	2		5000	↓	↓	2	
036	069_036	CCV	btxe	111203		11-MAR-2006 09:39	1.0			5000			1 2 PASS/USE	
037	069_037	CCV	btxe	111203		11-MAR-2006 10:10	1.0			5000			1 2	
038	069_038	CCV	tvh	111203		11-MAR-2006 10:42	1.0			5000			3 2	
039	069_039	CCV	tvh	111203		11-MAR-2006 11:13	1.0			5000			3 2	

Stds used: 1=S2650 2=S2543 3=S2869

Analyst: [signature] Date: 03/13/06

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Darlene J. Perez 3/13/06

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Darlene J. Perez 3/13/06 — Signed — Date

[signature] 03/13/06 — Signed — Date

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Notebook No. BK 2266

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316101694 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 11-MAR-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	070_001	X	ib			11-MAR-2006 14:54	1.0					1	
002	070_002	CCV/LCS	QC331079	111211	Water	11-MAR-2006 15:25	1.0		5000			2 1 PASS	
003	070_003	CCV/LCS	QC331080	111211	Water	11-MAR-2006 15:57	1.0		5000			3 1 ↓	
004	070_004	BLANK	QC331078	111211	Water	11-MAR-2006 16:29	1.0	2	5000			1 <1/2 RL	
005	070_005	SAMPLE	185463-001	111211	Water	11-MAR-2006 18:06	1.0	1	5000	A	1.3	1	
006	070_006	SAMPLE	185463-002	111211	Water	11-MAR-2006 18:37	1.0	1	5000	↓	↓	1	
007	070_007	MSS	185463-003	111211	Water	11-MAR-2006 19:09	1.0	2	5000		1.6	1	
008	070_008	MS	QC331108	111211	Water	11-MAR-2006 19:41	1.0		5000			3 1 PASS	
009	070_009	MSD	QC331109	111211	Water	11-MAR-2006 20:13	1.0		5000			3 1 ↓	
010	070_010	SAMPLE	185463-004	111211	Water	11-MAR-2006 20:44	1.0	1	5000			1	
011	070_011	SAMPLE	185463-005	111211	Water	11-MAR-2006 21:15	1.0	1	5000	↓	↓	1	
012	070_012	CCV	mbtxe	111211		11-MAR-2006 21:47	1.0		5000			2 1 PASS	
013	070_013	CCV	mbtxe	111211		11-MAR-2006 22:18	1.0		5000			2 1	
014	070_014	CCV	tvh	111211		11-MAR-2006 22:49	1.0		5000			3 1	
015	070_015	CCV	tvh	111211		11-MAR-2006 23:21	1.0		5000			3 1 ↓	
016	070_016	SAMPLE	185467-001	111211	Water	11-MAR-2006 23:52	1.0		5000	A	1.6	1	
017	070_017	SAMPLE	185467-002	111211	Water	12-MAR-2006 00:23	1.0		5000		1.3	1	
018	070_018	SAMPLE	185467-003	111211	Water	12-MAR-2006 00:55	1.0		5000		1.6	1	
019	070_019	SAMPLE	185467-004	111211	Water	12-MAR-2006 01:26	1.0		5000		1.3	1	
020	070_020	SAMPLE	185472-005	111211	Water	12-MAR-2006 01:57	1.0		5000			1	
021	070_021	SAMPLE	185472-006	111211	Water	12-MAR-2006 02:28	1.0		5000		↓	1	
022	070_022	SAMPLE	185472-007	111211	Water	12-MAR-2006 02:59	1.0		5000		1.6	1	
023	070_023	SAMPLE	185472-008	111211	Water	12-MAR-2006 03:31	1.0		5000		↓	1	
024	070_024	SAMPLE	185457-010	111211	Water	12-MAR-2006 04:02	1.0	1	5000		1.3	1	
025	070_025	SAMPLE	185457-019	111211	Water	12-MAR-2006 04:33	1.0	1	5000	↓	↓	1	
026	070_026	CCV	tvh	111211		12-MAR-2006 05:05	1.0		5000			3 1 PASS	
027	070_027	CCV	tvh	111211		12-MAR-2006 05:36	1.0		5000			3 1	
028	070_028	CCV	mbtxe	111211		12-MAR-2006 06:07	1.0		5000			2 1	
029	070_029	CCV	mbtxe	111211		12-MAR-2006 06:38	1.0		5000			2 1 ↓	

Stds used: 1=S2543 2=S2650 3=S2869

Analyst: TJP Date: 3/13/06

Dulcinea J. Perez 3/13/06

Signed Dulcinea J. Perez Date 03/13/06

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Signed Michael [illegible] Date 03/13/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 346101686 Instrument: GC19
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #19 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 11-MAR-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	070_001	X	ib			11-MAR-2006 14:46	1.0					1	
002	070_002	CCV/LCS	QC331111	111217	Water	11-MAR-2006 15:20	1.0		5000			2 1 PASS	
003	070_003	CCV/LCS	QC331112	111217	Water	11-MAR-2006 15:54	1.0		5000			3 1	
004	070_004	BLANK	QC331110	111217	Water	11-MAR-2006 16:28	1.0	3	5000			1 <1/2 RL	
005	070_005	SAMPLE	185456-001	111217	Water	11-MAR-2006 18:56	1.0		5000	C	1.3	1	
006	070_006	SAMPLE	185456-002	111217	Water	11-MAR-2006 19:30	1.0		5000		1.6	1	
007	070_007	SAMPLE	185456-003	111217	Water	11-MAR-2006 20:03	1.0		5000		1.8	1	
008	070_008	SAMPLE	185456-004	111217	Water	11-MAR-2006 20:37	1.0		5000		1.0	1	
009	070_009	SAMPLE	185456-005	111217	Water	11-MAR-2006 21:10	1.0		5000		1.3	1	
010	070_010	SAMPLE	185456-006	111217	Water	11-MAR-2006 21:43	1.0		5000			1	
011	070_011	SAMPLE	185456-007	111217	Water	11-MAR-2006 22:17	1.0		5000			1	
012	070_012	CCV	tvh	111217		11-MAR-2006 22:50	1.0		5000			3 1 PASS	
013	070_013	CCV	tvh	111217		11-MAR-2006 23:23	1.0		5000			3 1	
014	070_014	SAMPLE	185456-008	111217	Water	11-MAR-2006 23:57	1.0		5000	C	1.3	1	
015	070_015	SAMPLE	185456-009	111217	Water	12-MAR-2006 00:30	1.0		5000			1	
016	070_016	SAMPLE	185456-010	111217	Water	12-MAR-2006 01:03	1.0		5000		1.0	1	
017	070_017	SAMPLE	185457-001	111217	Water	12-MAR-2006 01:36	1.0	1	5000	B	1.3	1	
018	070_018	SAMPLE	185457-002	111217	Water	12-MAR-2006 02:09	1.0	1	5000			1	
019	070_019	SAMPLE	185457-005	111217	Water	12-MAR-2006 02:43	1.0	1	5000			1	
020	070_020	SAMPLE	185457-006	111217	Water	12-MAR-2006 03:16	1.0	1	5000			1	
021	070_021	SAMPLE	185457-007	111217	Water	12-MAR-2006 03:49	1.0	1	5000			1	
022	070_022	SAMPLE	185457-008	111217	Water	12-MAR-2006 04:22	1.0	1	5000			1	
023	070_023	MSS	185457-009	111217	Water	12-MAR-2006 04:55	1.0	9	5000			1	
024	070_024	CCV	tvh	111217		12-MAR-2006 05:28	1.0		5000			3 1 PASS	
025	070_025	CCV	tvh	111217		12-MAR-2006 06:02	1.0		5000			3 1	
026	070_026	MS	QC331113	111217	Water	12-MAR-2006 06:35	1.0		5000	B	1.3	3 1	
027	070_027	MSD	QC331114	111217	Water	12-MAR-2006 07:08	1.0		5000			3 1	
028	070_028	SAMPLE	185457-012	111217	Water	12-MAR-2006 07:41	1.0	2	5000			1 RR	3:GAS:6-=57055.3
029	070_029	MSS	185457-016	111217	Water	12-MAR-2006 08:14	1.0	9	5000			1	
030	070_030	MS	QC331115	111217	Water	12-MAR-2006 08:47	1.0		5000			3 1 PASS	

Stds used: 1=S2543 2=S2650 3=S2869

Analyst: TJP Date: 3/13/06

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Thelma J. Perez 3/13/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 346101686 Instrument: GC19
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #19 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 11-MAR-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
031	070_031	MSD	QC331116	111217	Water	12-MAR-2006 09:20	1.0		5000	B	1.3	3 1 PASS	
032	070_032	MSS	185457-020	111217	Water	12-MAR-2006 09:53	1.0	9	5000			1	
033	070_033	MS	QC331117	111217	Water	12-MAR-2006 10:27	1.0		5000			3 1 PASS	
034	070_034	MSD	QC331118	111217	Water	12-MAR-2006 11:00	1.0		5000			3 1	
035	070_035	CCV	tvh	111217		12-MAR-2006 11:33	1.0		5000			3 1	
036	070_036	CCV	tvh	111217		12-MAR-2006 12:06	1.0		5000			3 1	

Thelma J. Perez 3/13/06

Stds used: 1=S2543 2=S2650 3=S2869

Analyst: TJP Date: 3/13/06

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Thelma J. Perez 3/13/06

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Read and Understood By

Thelma J. Perez 3/13/06
Signed Date

Miriam [illegible] 03/13/06
Signed Date

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316104169 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 13-MAR-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	072_001	X	ib			13-MAR-2006 08:09	1.0						1	
002	072_002	CCV/LCS	QC331152	111226	Water	13-MAR-2006 08:40	1.0			5000			2 1 PASS	
003	072_003	CCV/LCS	QC331153	111226	Water	13-MAR-2006 09:12	1.0			5000			3 1 ↓	
004	072_004	X	ib	111226	Water	13-MAR-2006 09:43	1.0	2		5000			1	
005	072_005	SAMPLE	185430-003	111226	Water	13-MAR-2006 14:41	5.0			5000	B	1.6	1	
006	072_006	SAMPLE	185430-004	111226	Water	13-MAR-2006 15:13	10.0	2	1	5000	↓	1.3	1	2:BZ=3128.71
007	072_007	SAMPLE	185457-012	111226	Water	13-MAR-2006 15:45	5.0	1		5000	E	↓	1	2:BZ=5318.40
008	072_008	CCV	avgas	111226		13-MAR-2006 16:17	1.0			5000			4 1 PASS	1:BZME=2500.86
009	072_009	BLANK	QC331151	111226	Water	13-MAR-2006 16:48	1.0	1		5000			1 <1/2 RL	
010	072_010	MSS	185486-001	111226	Water	13-MAR-2006 17:20	1.0			5000	A	1.3	1	
011	072_011	SAMPLE	185486-002	111226	Water	13-MAR-2006 17:52	1.0			5000		↓	1	
012	072_012	SAMPLE	185486-003	111226	Water	13-MAR-2006 18:23	1.0			5000		1.6	1	
013	072_013	SAMPLE	185486-004	111226	Water	13-MAR-2006 18:55	1.0			5000	↓	1.3	1	
014	072_014	CCV	btxe	111226		13-MAR-2006 19:27	1.0			5000			2 1 PASS	
015	072_015	CCV	btxe	111226		13-MAR-2006 19:58	1.0			5000			2 1	
016	072_016	CCV	tvh	111226		13-MAR-2006 20:30	1.0			5000			3 1	
017	072_017	CCV	tvh	111226		13-MAR-2006 21:01	1.0			5000			3 1	
018	072_018	CCV	avgas	111226		13-MAR-2006 21:33	1.0			5000			4 1	1:BZME=2455.83
019	072_019	CCV	avgas	111226		13-MAR-2006 22:05	1.0			5000			4 1	1:BZME=2495.37
020	072_020	MS	QC331278	111226	Water	13-MAR-2006 22:36	1.0			5000	A	1.3	3 1	
021	072_021	MSD	QC331279	111226	Water	13-MAR-2006 23:07	1.0			5000		↓	3 1	
022	072_022	X	185486-004	111226	Water	13-MAR-2006 23:39	1.0					↓	1 NOT USED (H6)	
023	072_023	SAMPLE	185493-001	111226	Water	14-MAR-2006 00:10	1.0			5000		1.6	1	
024	072_024	SAMPLE	185493-002	111226	Water	14-MAR-2006 00:42	1.0			5000		↓	1	
025	072_025	SAMPLE	185493-003	111226	Water	14-MAR-2006 01:13	1.0			5000		1.3	1	
026	072_026	SAMPLE	185493-004	111226	Water	14-MAR-2006 01:45	1.0			5000		1.6	1	
027	072_027	SAMPLE	185492-029	111226	Water	14-MAR-2006 02:16	1.0			5000		1.3	1	
028	072_028	SAMPLE	185492-048	111226	Water	14-MAR-2006 02:48	1.0			5000	↓	↓	1	
029	072_029	CCV	tvh	111226		14-MAR-2006 03:19	1.0			5000			3 1 PASS	
030	072_030	CCV	tvh	111226		14-MAR-2006 03:50	1.0			5000			3 1 ↓	

Stds used: 1=S2543 2=S2650 3=S2869 4=S2778

Analyst: TOP Date: 3/14/06

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Dulcinea J. Perez 3/14/06

Signed Dulcinea J. Perez Date 3/14/06

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Signed [illegible] Date 03/14/06

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REPORTING SUMMARY FOR 185457 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185457-001	Gasoline C7-C12	GC19	X	03/12/06 01:36
185457-001	Trifluorotoluene (FID)	GC19	X	03/12/06 01:36
185457-001	Bromofluorobenzene (FID)	GC19	X	03/12/06 01:36
185457-002	Gasoline C7-C12	GC19	X	03/12/06 02:09
185457-002	Trifluorotoluene (FID)	GC19	X	03/12/06 02:09
185457-002	Bromofluorobenzene (FID)	GC19	X	03/12/06 02:09
185457-003	Gasoline C7-C12	GC05	G	03/10/06 20:08
185457-003	MTBE	GC05	H	03/10/06 20:08
185457-003	Benzene	GC05	H	03/10/06 20:08
185457-003	Toluene	GC05	H	03/10/06 20:08
185457-003	Ethylbenzene	GC05	H	03/10/06 20:08
185457-003	Trifluorotoluene (FID)	GC05	G	03/10/06 20:08
185457-003	Bromofluorobenzene (FID)	GC05	G	03/10/06 20:08
185457-003	Trifluorotoluene (PID)	GC05	H	03/10/06 20:08
185457-003	Bromofluorobenzene (PID)	GC05	H	03/10/06 20:08
185457-003	Xylene (total)	GC05	H	03/10/06 20:08
185457-004	Gasoline C7-C12	GC05	G	03/11/06 00:49
185457-004	MTBE	GC05	H	03/11/06 00:49
185457-004	Benzene	GC05	H	03/11/06 00:49
185457-004	Toluene	GC05	H	03/11/06 00:49
185457-004	Ethylbenzene	GC05	H	03/11/06 00:49
185457-004	Trifluorotoluene (FID)	GC05	G	03/11/06 00:49
185457-004	Bromofluorobenzene (FID)	GC05	G	03/11/06 00:49
185457-004	Trifluorotoluene (PID)	GC05	H	03/11/06 00:49
185457-004	Bromofluorobenzene (PID)	GC05	H	03/11/06 00:49
185457-004	Xylene (total)	GC05	H	03/11/06 00:49
185457-005	Gasoline C7-C12	GC19	X	03/12/06 02:43
185457-005	Trifluorotoluene (FID)	GC19	X	03/12/06 02:43
185457-005	Bromofluorobenzene (FID)	GC19	X	03/12/06 02:43
185457-006	Gasoline C7-C12	GC19	X	03/12/06 03:16
185457-006	Trifluorotoluene (FID)	GC19	X	03/12/06 03:16
185457-006	Bromofluorobenzene (FID)	GC19	X	03/12/06 03:16
185457-007	Gasoline C7-C12	GC19	X	03/12/06 03:49
185457-007	Trifluorotoluene (FID)	GC19	X	03/12/06 03:49
185457-007	Bromofluorobenzene (FID)	GC19	X	03/12/06 03:49
185457-008	Gasoline C7-C12	GC19	X	03/12/06 04:22
185457-008	Trifluorotoluene (FID)	GC19	X	03/12/06 04:22
185457-008	Bromofluorobenzene (FID)	GC19	X	03/12/06 04:22
185457-009	Gasoline C7-C12	GC19	X	03/12/06 04:55
185457-009	Trifluorotoluene (FID)	GC19	X	03/12/06 04:55
185457-009	Bromofluorobenzene (FID)	GC19	X	03/12/06 04:55
185457-010	Gasoline C7-C12	GC05	G	03/12/06 04:02
185457-010	Trifluorotoluene (FID)	GC05	G	03/12/06 04:02
185457-010	Bromofluorobenzene (FID)	GC05	G	03/12/06 04:02

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REPORTING SUMMARY FOR 185457 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185457-011	Gasoline C7-C12	GC05	G	03/11/06 07:04
185457-011	Trifluorotoluene (FID)	GC05	G	03/11/06 07:04
185457-011	Bromofluorobenzene (FID)	GC05	G	03/11/06 07:04
185457-012	Gasoline C7-C12	GC05	G	03/13/06 15:45
185457-012	Trifluorotoluene (FID)	GC05	G	03/13/06 15:45
185457-012	Bromofluorobenzene (FID)	GC05	G	03/13/06 15:45
185457-013	Gasoline C7-C12	GC05	G	03/11/06 06:33
185457-013	Trifluorotoluene (FID)	GC05	G	03/11/06 06:33
185457-013	Bromofluorobenzene (FID)	GC05	G	03/11/06 06:33
185457-014	Gasoline C7-C12	GC05	G	03/11/06 01:21
185457-014	MTBE	GC05	H	03/11/06 01:21
185457-014	Benzene	GC05	H	03/11/06 01:21
185457-014	Toluene	GC05	H	03/11/06 01:21
185457-014	Ethylbenzene	GC05	H	03/11/06 01:21
185457-014	Trifluorotoluene (FID)	GC05	G	03/11/06 01:21
185457-014	Bromofluorobenzene (FID)	GC05	G	03/11/06 01:21
185457-014	Trifluorotoluene (PID)	GC05	H	03/11/06 01:21
185457-014	Bromofluorobenzene (PID)	GC05	H	03/11/06 01:21
185457-014	Xylene (total)	GC05	H	03/11/06 01:21
185457-016	Gasoline C7-C12	GC19	X	03/12/06 08:14
185457-016	Trifluorotoluene (FID)	GC19	X	03/12/06 08:14
185457-016	Bromofluorobenzene (FID)	GC19	X	03/12/06 08:14
185457-017	Gasoline C7-C12	GC05	G	03/11/06 07:35
185457-017	Trifluorotoluene (FID)	GC05	G	03/11/06 07:35
185457-017	Bromofluorobenzene (FID)	GC05	G	03/11/06 07:35
185457-019	Gasoline C7-C12	GC05	G	03/12/06 04:33
185457-019	Trifluorotoluene (FID)	GC05	G	03/12/06 04:33
185457-019	Bromofluorobenzene (FID)	GC05	G	03/12/06 04:33
185457-020	Gasoline C7-C12	GC19	X	03/12/06 09:53
185457-020	Trifluorotoluene (FID)	GC19	X	03/12/06 09:53
185457-020	Bromofluorobenzene (FID)	GC19	X	03/12/06 09:53
185457-021	Gasoline C7-C12	GC05	G	03/11/06 01:52
185457-021	MTBE	GC05	H	03/11/06 01:52
185457-021	Benzene	GC05	H	03/11/06 01:52
185457-021	Toluene	GC05	H	03/11/06 01:52
185457-021	Ethylbenzene	GC05	H	03/11/06 01:52
185457-021	Trifluorotoluene (FID)	GC05	G	03/11/06 01:52
185457-021	Bromofluorobenzene (FID)	GC05	G	03/11/06 01:52
185457-021	Trifluorotoluene (PID)	GC05	H	03/11/06 01:52
185457-021	Bromofluorobenzene (PID)	GC05	H	03/11/06 01:52
185457-021	Xylene (total)	GC05	H	03/11/06 01:52
185457-022	Gasoline C7-C12	GC05	G	03/11/06 02:23
185457-022	MTBE	GC05	H	03/11/06 02:23
185457-022	Benzene	GC05	H	03/11/06 02:23
185457-022	Toluene	GC05	H	03/11/06 02:23

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REPORTING SUMMARY FOR 185457 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185457-022	Ethylbenzene	GC05	H	03/11/06 02:23
185457-022	Trifluorotoluene (FID)	GC05	G	03/11/06 02:23
185457-022	Bromofluorobenzene (FID)	GC05	G	03/11/06 02:23
185457-022	Trifluorotoluene (PID)	GC05	H	03/11/06 02:23
185457-022	Bromofluorobenzene (PID)	GC05	H	03/11/06 02:23
185457-022	Xylene (total)	GC05	H	03/11/06 02:23
185457-023	Gasoline C7-C12	GC05	G	03/11/06 02:55
185457-023	MTBE	GC05	H	03/11/06 02:55
185457-023	Benzene	GC05	H	03/11/06 02:55
185457-023	Toluene	GC05	H	03/11/06 02:55
185457-023	Ethylbenzene	GC05	H	03/11/06 02:55
185457-023	Trifluorotoluene (FID)	GC05	G	03/11/06 02:55
185457-023	Bromofluorobenzene (FID)	GC05	G	03/11/06 02:55
185457-023	Trifluorotoluene (PID)	GC05	H	03/11/06 02:55
185457-023	Bromofluorobenzene (PID)	GC05	H	03/11/06 02:55
185457-023	Xylene (total)	GC05	H	03/11/06 02:55
185457-024	Gasoline C7-C12	GC05	G	03/11/06 03:26
185457-024	MTBE	GC05	H	03/11/06 03:26
185457-024	Benzene	GC05	H	03/11/06 03:26
185457-024	Toluene	GC05	H	03/11/06 03:26
185457-024	Ethylbenzene	GC05	H	03/11/06 03:26
185457-024	Trifluorotoluene (FID)	GC05	G	03/11/06 03:26
185457-024	Bromofluorobenzene (FID)	GC05	G	03/11/06 03:26
185457-024	Trifluorotoluene (PID)	GC05	H	03/11/06 03:26
185457-024	Bromofluorobenzene (PID)	GC05	H	03/11/06 03:26
185457-024	Xylene (total)	GC05	H	03/11/06 03:26
185457-025	Gasoline C7-C12	GC05	G	03/11/06 08:06
185457-025	MTBE	GC05	H	03/11/06 08:06
185457-025	Benzene	GC05	H	03/11/06 08:06
185457-025	Toluene	GC05	H	03/11/06 08:06
185457-025	Ethylbenzene	GC05	H	03/11/06 08:06
185457-025	Trifluorotoluene (FID)	GC05	G	03/11/06 08:06
185457-025	Bromofluorobenzene (FID)	GC05	G	03/11/06 08:06
185457-025	Trifluorotoluene (PID)	GC05	H	03/11/06 08:06
185457-025	Bromofluorobenzene (PID)	GC05	H	03/11/06 08:06
185457-025	Xylene (total)	GC05	H	03/11/06 08:06
185457-026	Gasoline C7-C12	GC05	G	03/11/06 08:37
185457-026	MTBE	GC05	H	03/11/06 08:37
185457-026	Benzene	GC05	H	03/11/06 08:37
185457-026	Toluene	GC05	H	03/11/06 08:37
185457-026	Ethylbenzene	GC05	H	03/11/06 08:37
185457-026	Trifluorotoluene (FID)	GC05	G	03/11/06 08:37
185457-026	Bromofluorobenzene (FID)	GC05	G	03/11/06 08:37
185457-026	Trifluorotoluene (PID)	GC05	H	03/11/06 08:37
185457-026	Bromofluorobenzene (PID)	GC05	H	03/11/06 08:37
185457-026	Xylene (total)	GC05	H	03/11/06 08:37
185457-027	Gasoline C7-C12	GC05	G	03/11/06 09:08
185457-027	MTBE	GC05	H	03/11/06 09:08
185457-027	Benzene	GC05	H	03/11/06 09:08

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REPORTING SUMMARY FOR 185457 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185457-027	Toluene	GC05	H	03/11/06 09:08
185457-027	Ethylbenzene	GC05	H	03/11/06 09:08
185457-027	Trifluorotoluene (FID)	GC05	G	03/11/06 09:08
185457-027	Bromofluorobenzene (FID)	GC05	G	03/11/06 09:08
185457-027	Trifluorotoluene (PID)	GC05	H	03/11/06 09:08
185457-027	Bromofluorobenzene (PID)	GC05	H	03/11/06 09:08
185457-027	Xylene (total)	GC05	H	03/11/06 09:08
QC331048	Gasoline C7-C12	GC05	G	03/10/06 16:27
QC331048	MTBE	GC05	H	03/10/06 16:27
QC331048	Benzene	GC05	H	03/10/06 16:27
QC331048	Toluene	GC05	H	03/10/06 16:27
QC331048	Ethylbenzene	GC05	H	03/10/06 16:27
QC331048	Trifluorotoluene (FID)	GC05	G	03/10/06 16:27
QC331048	Bromofluorobenzene (FID)	GC05	G	03/10/06 16:27
QC331048	Trifluorotoluene (PID)	GC05	H	03/10/06 16:27
QC331048	Bromofluorobenzene (PID)	GC05	H	03/10/06 16:27
QC331048	Xylene (total)	GC05	H	03/10/06 16:27
QC331049	MTBE	GC05	H	03/10/06 15:24
QC331049	Benzene	GC05	H	03/10/06 15:24
QC331049	Toluene	GC05	H	03/10/06 15:24
QC331049	Ethylbenzene	GC05	H	03/10/06 15:24
QC331049	Trifluorotoluene (PID)	GC05	H	03/10/06 15:24
QC331049	Bromofluorobenzene (PID)	GC05	H	03/10/06 15:24
QC331050	Gasoline C7-C12	GC05	G	03/10/06 15:56
QC331050	Trifluorotoluene (FID)	GC05	G	03/10/06 15:56
QC331050	Bromofluorobenzene (FID)	GC05	G	03/10/06 15:56
QC331064	Gasoline C7-C12	GC05	G	03/10/06 22:44
QC331064	Trifluorotoluene (FID)	GC05	G	03/10/06 22:44
QC331064	Bromofluorobenzene (FID)	GC05	G	03/10/06 22:44
QC331065	Gasoline C7-C12	GC05	G	03/10/06 23:15
QC331065	Trifluorotoluene (FID)	GC05	G	03/10/06 23:15
QC331065	Bromofluorobenzene (FID)	GC05	G	03/10/06 23:15
QC331066	Gasoline C7-C12	GC05	G	03/10/06 23:47
QC331066	Trifluorotoluene (FID)	GC05	G	03/10/06 23:47
QC331066	Bromofluorobenzene (FID)	GC05	G	03/10/06 23:47
QC331067	Gasoline C7-C12	GC05	G	03/11/06 00:18
QC331067	Trifluorotoluene (FID)	GC05	G	03/11/06 00:18
QC331067	Bromofluorobenzene (FID)	GC05	G	03/11/06 00:18
QC331078	Gasoline C7-C12	GC05	G	03/11/06 16:29
QC331078	Trifluorotoluene (FID)	GC05	G	03/11/06 16:29
QC331078	Bromofluorobenzene (FID)	GC05	G	03/11/06 16:29
QC331078	Trifluorotoluene (PID)	GC05	H	03/11/06 16:29
QC331078	Bromofluorobenzene (PID)	GC05	H	03/11/06 16:29
QC331080	Gasoline C7-C12	GC05	G	03/11/06 15:57
QC331080	Trifluorotoluene (FID)	GC05	G	03/11/06 15:57

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REPORTING SUMMARY FOR 185457 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC331080	Bromofluorobenzene (FID)	GC05	G	03/11/06 15:57
QC331108	Gasoline C7-C12	GC05	G	03/11/06 19:41
QC331108	Trifluorotoluene (FID)	GC05	G	03/11/06 19:41
QC331108	Bromofluorobenzene (FID)	GC05	G	03/11/06 19:41
QC331109	Gasoline C7-C12	GC05	G	03/11/06 20:13
QC331109	Trifluorotoluene (FID)	GC05	G	03/11/06 20:13
QC331109	Bromofluorobenzene (FID)	GC05	G	03/11/06 20:13
QC331110	Gasoline C7-C12	GC19	X	03/11/06 16:28
QC331110	Trifluorotoluene (FID)	GC19	X	03/11/06 16:28
QC331110	Bromofluorobenzene (FID)	GC19	X	03/11/06 16:28
QC331110	Trifluorotoluene (PID)	GC19	Y	03/11/06 16:28
QC331110	Bromofluorobenzene (PID)	GC19	Y	03/11/06 16:28
QC331112	Gasoline C7-C12	GC19	X	03/11/06 15:54
QC331112	Trifluorotoluene (FID)	GC19	X	03/11/06 15:54
QC331112	Bromofluorobenzene (FID)	GC19	X	03/11/06 15:54
QC331113	Gasoline C7-C12	GC19	X	03/12/06 06:35
QC331113	Trifluorotoluene (FID)	GC19	X	03/12/06 06:35
QC331113	Bromofluorobenzene (FID)	GC19	X	03/12/06 06:35
QC331114	Gasoline C7-C12	GC19	X	03/12/06 07:08
QC331114	Trifluorotoluene (FID)	GC19	X	03/12/06 07:08
QC331114	Bromofluorobenzene (FID)	GC19	X	03/12/06 07:08
QC331115	Gasoline C7-C12	GC19	X	03/12/06 08:47
QC331115	Trifluorotoluene (FID)	GC19	X	03/12/06 08:47
QC331115	Bromofluorobenzene (FID)	GC19	X	03/12/06 08:47
QC331116	Gasoline C7-C12	GC19	X	03/12/06 09:20
QC331116	Trifluorotoluene (FID)	GC19	X	03/12/06 09:20
QC331116	Bromofluorobenzene (FID)	GC19	X	03/12/06 09:20
QC331117	Gasoline C7-C12	GC19	X	03/12/06 10:27
QC331117	Trifluorotoluene (FID)	GC19	X	03/12/06 10:27
QC331117	Bromofluorobenzene (FID)	GC19	X	03/12/06 10:27
QC331118	Gasoline C7-C12	GC19	X	03/12/06 11:00
QC331118	Trifluorotoluene (FID)	GC19	X	03/12/06 11:00
QC331118	Bromofluorobenzene (FID)	GC19	X	03/12/06 11:00
QC331151	Gasoline C7-C12	GC05	G	03/13/06 16:48
QC331151	Trifluorotoluene (FID)	GC05	G	03/13/06 16:48
QC331151	Bromofluorobenzene (FID)	GC05	G	03/13/06 16:48
QC331151	Trifluorotoluene (PID)	GC05	H	03/13/06 16:48
QC331151	Bromofluorobenzene (PID)	GC05	H	03/13/06 16:48
QC331153	Gasoline C7-C12	GC05	G	03/13/06 09:12
QC331153	Trifluorotoluene (FID)	GC05	G	03/13/06 09:12
QC331153	Bromofluorobenzene (FID)	GC05	G	03/13/06 09:12

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REPORTING SUMMARY FOR 185457 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC331278	Gasoline C7-C12	GC05	G	03/13/06 22:36
QC331278	Trifluorotoluene (FID)	GC05	G	03/13/06 22:36
QC331278	Bromofluorobenzene (FID)	GC05	G	03/13/06 22:36
QC331279	Gasoline C7-C12	GC05	G	03/13/06 23:07
QC331279	Trifluorotoluene (FID)	GC05	G	03/13/06 23:07
QC331279	Bromofluorobenzene (FID)	GC05	G	03/13/06 23:07

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Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111203
Date Started: 10-MAR-2006
Batched by : Micaela M. Perpetuo

Analysis : N/A
Bgroup : TVH
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185430-001			Burns & McDonnell	Water	MBTXE, TVH	15-MAR-2006
185430-002			Burns & McDonnell	Water	MBTXE, TVH	15-MAR-2006
185430-003			Burns & McDonnell	Water	MBTXE, TVH	15-MAR-2006
185430-004			Burns & McDonnell	Water	MBTXE, TVH	15-MAR-2006
185430-005			Burns & McDonnell	Water	MBTXE, TVH	15-MAR-2006
185430-006			Burns & McDonnell	Water	MBTXE, TVH	15-MAR-2006
185430-007			Burns & McDonnell	Water	MBTXE, TVH	15-MAR-2006
185457-003			Treadwell & Rollo	Water	MBTXE, TVH	22-MAR-2006
185457-004			Treadwell & Rollo	Water	MBTXE, TVH	22-MAR-2006
185457-011			Treadwell & Rollo	Water	TVH	22-MAR-2006
185457-013			Treadwell & Rollo	Water	TVH	22-MAR-2006
185457-014			Treadwell & Rollo	Water	MBTXE, TVH	22-MAR-2006
185457-017			Treadwell & Rollo	Water	TVH	22-MAR-2006
185457-021			Treadwell & Rollo	Water	MBTXE, TVH	22-MAR-2006
185457-022			Treadwell & Rollo	Water	MBTXE, TVH	22-MAR-2006
185457-023			Treadwell & Rollo	Water	MBTXE, TVH	22-MAR-2006
185457-024			Treadwell & Rollo	Water	MBTXE, TVH	22-MAR-2006
185457-025			Treadwell & Rollo	Water	MBTXE, TVH	22-MAR-2006
185457-026			Treadwell & Rollo	Water	MBTXE, TVH	22-MAR-2006
185457-027			Treadwell & Rollo	Water	MBTXE, TVH	22-MAR-2006
QC331048	BLANK			Water		
QC331049	LCS			Water		
QC331050	LCS			Water		
QC331064	MS	of 185457-003		Water		
QC331065	MSD	of 185457-003		Water		
QC331066	MS	of 185457-027		Water		
QC331067	MSD	of 185457-027		Water		

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111211
Date Started: 11-MAR-2006
Batched by : Thelma Perez

Analysis : N/A
Bgroup : TVH
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185457-010			Treadwell & Rollo	Water	TVH	22-MAR-2006
185457-019			Treadwell & Rollo	Water	TVH	22-MAR-2006
185463-001			Treadwell & Rollo	Water	TVH	22-MAR-2006
185463-002			Treadwell & Rollo	Water	TVH	22-MAR-2006
185463-003			Treadwell & Rollo	Water	TVH	22-MAR-2006
185463-004			Treadwell & Rollo	Water	TVH	22-MAR-2006
185463-005			Treadwell & Rollo	Water	TVH	22-MAR-2006
185467-001			Questa Engineering	Water	MBTXE, TVH	16-MAR-2006
185467-002			Questa Engineering	Water	MBTXE, TVH	16-MAR-2006
185467-003			Questa Engineering	Water	MBTXE, TVH	16-MAR-2006
185467-004			Questa Engineering	Water	MBTXE, TVH	16-MAR-2006
185472-005			Geomatrix Consulta	Water	TVH	16-MAR-2006
185472-006			Geomatrix Consulta	Water	TVH	16-MAR-2006
185472-007			Geomatrix Consulta	Water	TVH	16-MAR-2006
185472-008			Geomatrix Consulta	Water	TVH	16-MAR-2006
QC331078	BLANK			Water		
QC331079	LCS			Water		
QC331080	LCS			Water		
QC331108	MS	of 185463-003		Water		
QC331109	MSD	of 185463-003		Water		

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111217
Date Started: 11-MAR-2006
Batched by : Thelma Perez

Analysis : N/A
Bgroup : TVH
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185456-001			Acton Mickelson En	Water	TVH	22-MAR-2006
185456-002			Acton Mickelson En	Water	TVH	22-MAR-2006
185456-003			Acton Mickelson En	Water	TVH	22-MAR-2006
185456-004			Acton Mickelson En	Water	TVH	22-MAR-2006
185456-005			Acton Mickelson En	Water	TVH	22-MAR-2006
185456-006			Acton Mickelson En	Water	TVH	22-MAR-2006
185456-007			Acton Mickelson En	Water	TVH	22-MAR-2006
185456-008			Acton Mickelson En	Water	TVH	22-MAR-2006
185456-009			Acton Mickelson En	Water	TVH	22-MAR-2006
185456-010			Acton Mickelson En	Water	TVH	22-MAR-2006
185457-001			Treadwell & Rollo	Water	TVH	22-MAR-2006
185457-002			Treadwell & Rollo	Water	TVH	22-MAR-2006
185457-005			Treadwell & Rollo	Water	TVH	22-MAR-2006
185457-006			Treadwell & Rollo	Water	TVH	22-MAR-2006
185457-007			Treadwell & Rollo	Water	TVH	22-MAR-2006
185457-008			Treadwell & Rollo	Water	TVH	22-MAR-2006
185457-009			Treadwell & Rollo	Water	TVH	22-MAR-2006
185457-012			Treadwell & Rollo	Water	TVH	22-MAR-2006
185457-016			Treadwell & Rollo	Water	TVH	22-MAR-2006
185457-020			Treadwell & Rollo	Water	TVH	22-MAR-2006
QC331110	BLANK			Water		
QC331111	LCS			Water		
QC331112	LCS			Water		
QC331113	MS	of 185457-009		Water		
QC331114	MSD	of 185457-009		Water		
QC331115	MS	of 185457-016		Water		
QC331116	MSD	of 185457-016		Water		
QC331117	MS	of 185457-020		Water		
QC331118	MSD	of 185457-020		Water		

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111226
Date Started: 13-MAR-2006
Batched by : Thelma Perez

Analysis : N/A
Bgroup : TVH
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185430-003			Burns & McDonnell	Water	MBTXE, TVH	15-MAR-2006
185430-004			Burns & McDonnell	Water	MBTXE, TVH	15-MAR-2006
185457-012			Treadwell & Rollo	Water	TVH	22-MAR-2006
185486-001			Tetra Tech FW, INC	Water	BTXE, TVH	20-MAR-2006
185486-002			Tetra Tech FW, INC	Water	TVH	20-MAR-2006
185486-003			Tetra Tech FW, INC	Water	TVH	20-MAR-2006
185486-004			Tetra Tech FW, INC	Water	TVH	20-MAR-2006
185492-029			Geomatrix Consulta	Water	TVH	17-MAR-2006
185492-048			Geomatrix Consulta	Water	TVH	17-MAR-2006
185493-001			Polymatrix	Water	TVH	23-MAR-2006
185493-002			Polymatrix	Water	TVH	23-MAR-2006
185493-003			Polymatrix	Water	TVH	23-MAR-2006
185493-004			Polymatrix	Water	TVH	23-MAR-2006
QC331151	BLANK			Water		
QC331152	LCS			Water		
QC331153	LCS			Water		
QC331278	MS	of 185486-001		Water		
QC331279	MSD	of 185486-001		Water		

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water
As of 04/06/06

Analyte	Units	GC19 X	GC04 A	GC04 J	GC05 G	GC07 A
Gasoline C6-C10	ug/L	21	6.7	6.2	4.8	10
Gasoline C6-C12	ug/L	21	5.5	6.8	4.5	14
Gasoline C7-C12	ug/L	27	4.8	7.2	4.2	15
JP-4 C7-C12	ug/L	4.6		12	9.9	19
Gasoline C6-C8	ug/L					7.0
Gasoline C8-C10	ug/L					12
Trifluorotoluene (FID)	ug/L		3.9			9.8
Bromofluorobenzene (FID)	ug/L		5.2			7.5

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8021B Water
As of 04/06/06

Analyte	Units	GC19 Y	GC19 Z	GC04 K	GC04 L	GC05 H	GC05 I	GC07 B	GC07 C
MTBE	ug/L	0.49	0.18	0.45	0.83	0.30	0.62	0.35	0.23
Benzene	ug/L	0.073	0.033	0.094	0.16	0.034	0.057	0.23	0.035
Toluene	ug/L	0.13	0.025	0.14	0.11	0.048	0.15	0.069	0.024
Ethylbenzene	ug/L	0.14	0.024	0.038	0.12	0.036	0.17	0.084	0.056
m,p-Xylenes	ug/L	0.13	0.039	0.10	0.21	0.030	0.17	0.090	0.027
o-Xylene	ug/L	0.15	0.015	0.12	0.10	0.083	0.19	0.13	0.040

TOTAL EXTRACTABLE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Received:	03/10/06

Field ID:	LF5GW103	Sampled:	03/09/06
Type:	SAMPLE	Prepared:	03/20/06
Lab ID:	185457-001	Analyzed:	03/22/06
Batch#:	111478	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	80	65-135

Field ID:	LF5GW102	Sampled:	03/09/06
Type:	SAMPLE	Prepared:	03/20/06
Lab ID:	185457-002	Analyzed:	03/22/06
Batch#:	111478	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	61 Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	85	65-135

Field ID:	1260GW102	Sampled:	03/09/06
Type:	SAMPLE	Prepared:	03/20/06
Lab ID:	185457-003	Analyzed:	03/22/06
Batch#:	111478	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	76	65-135

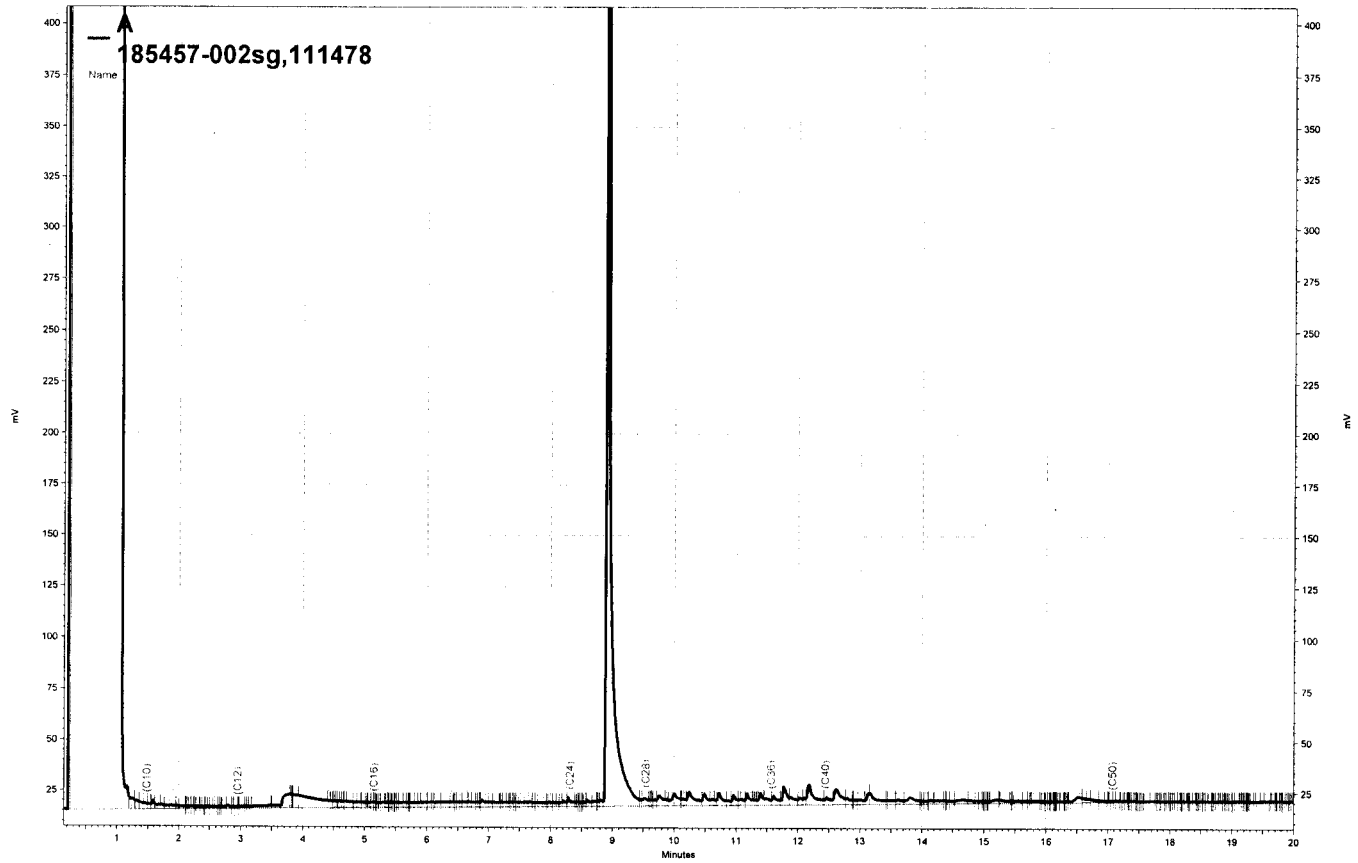
Field ID:	DUP0309063A	Sampled:	03/09/06
Type:	SAMPLE	Prepared:	03/20/06
Lab ID:	185457-004	Analyzed:	03/22/06
Batch#:	111478	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	88 Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	85	65-135

L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

LFSGW102



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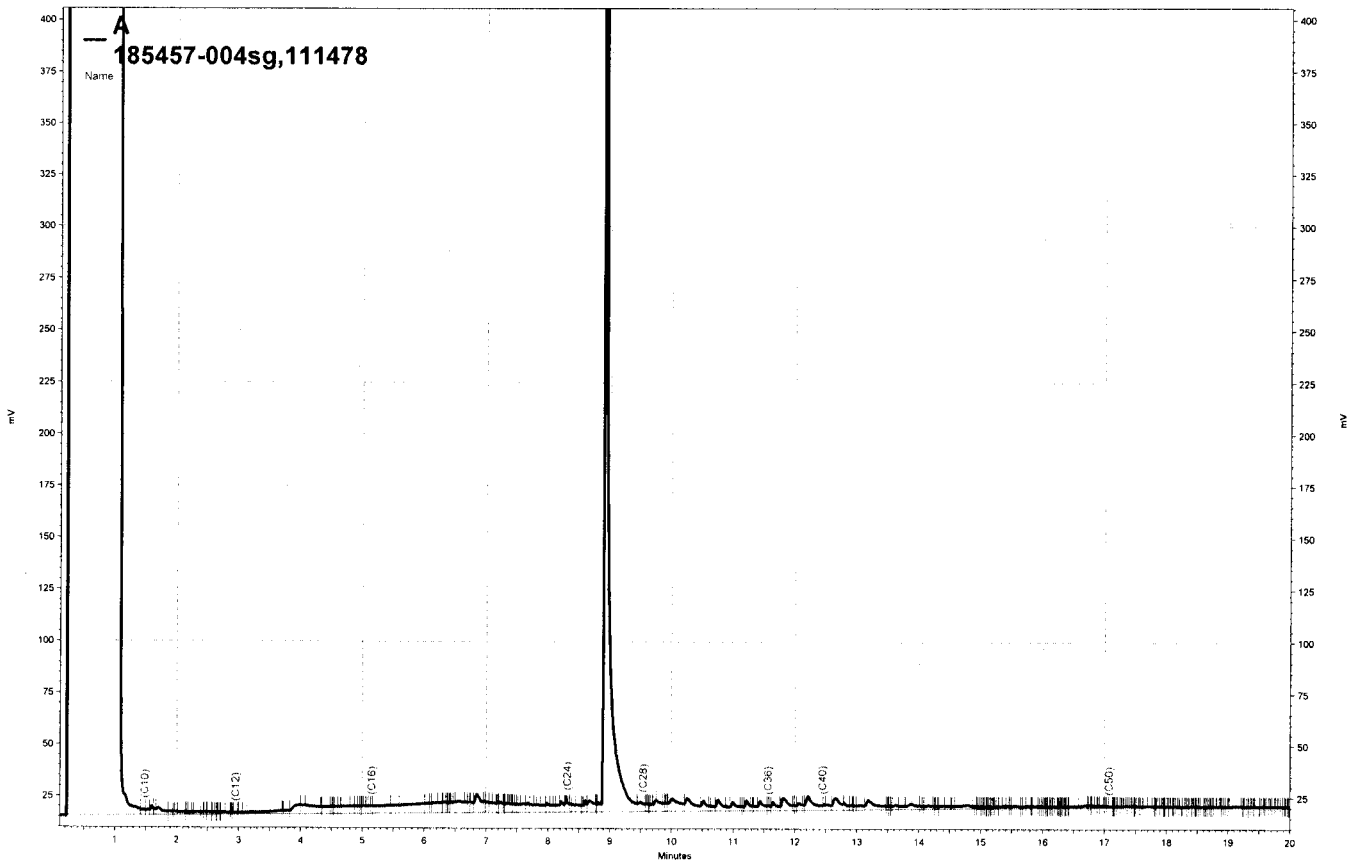
DUP0309063A



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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Received:	03/10/06

Field ID:	1349MW104	Sampled:	03/09/06
Type:	SAMPLE	Prepared:	03/20/06
Lab ID:	185457-005	Analyzed:	03/22/06
Batch#:	111478	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	55 Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	87	65-135

Field ID:	1349MW103	Sampled:	03/09/06
Type:	SAMPLE	Prepared:	03/20/06
Lab ID:	185457-006	Analyzed:	03/22/06
Batch#:	111478	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	54 Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	82	65-135

Field ID:	LF5GW101	Sampled:	03/09/06
Type:	SAMPLE	Prepared:	03/20/06
Lab ID:	185457-007	Analyzed:	03/22/06
Batch#:	111478	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	51 Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	84	65-135

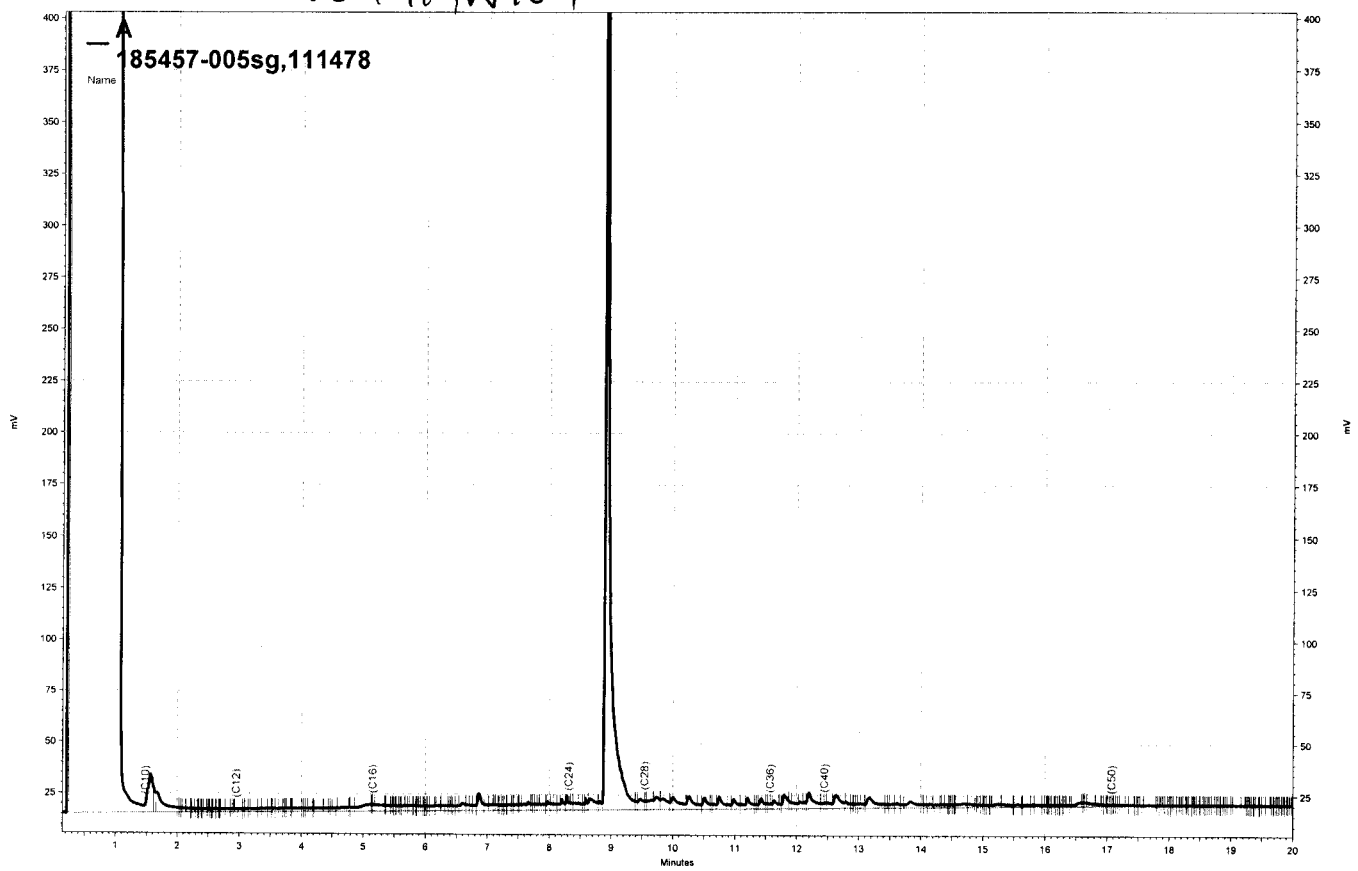
Field ID:	LF5GW100	Sampled:	03/09/06
Type:	SAMPLE	Prepared:	03/20/06
Lab ID:	185457-008	Analyzed:	03/22/06
Batch#:	111478	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	52 Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	88	65-135

L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

1349MW104



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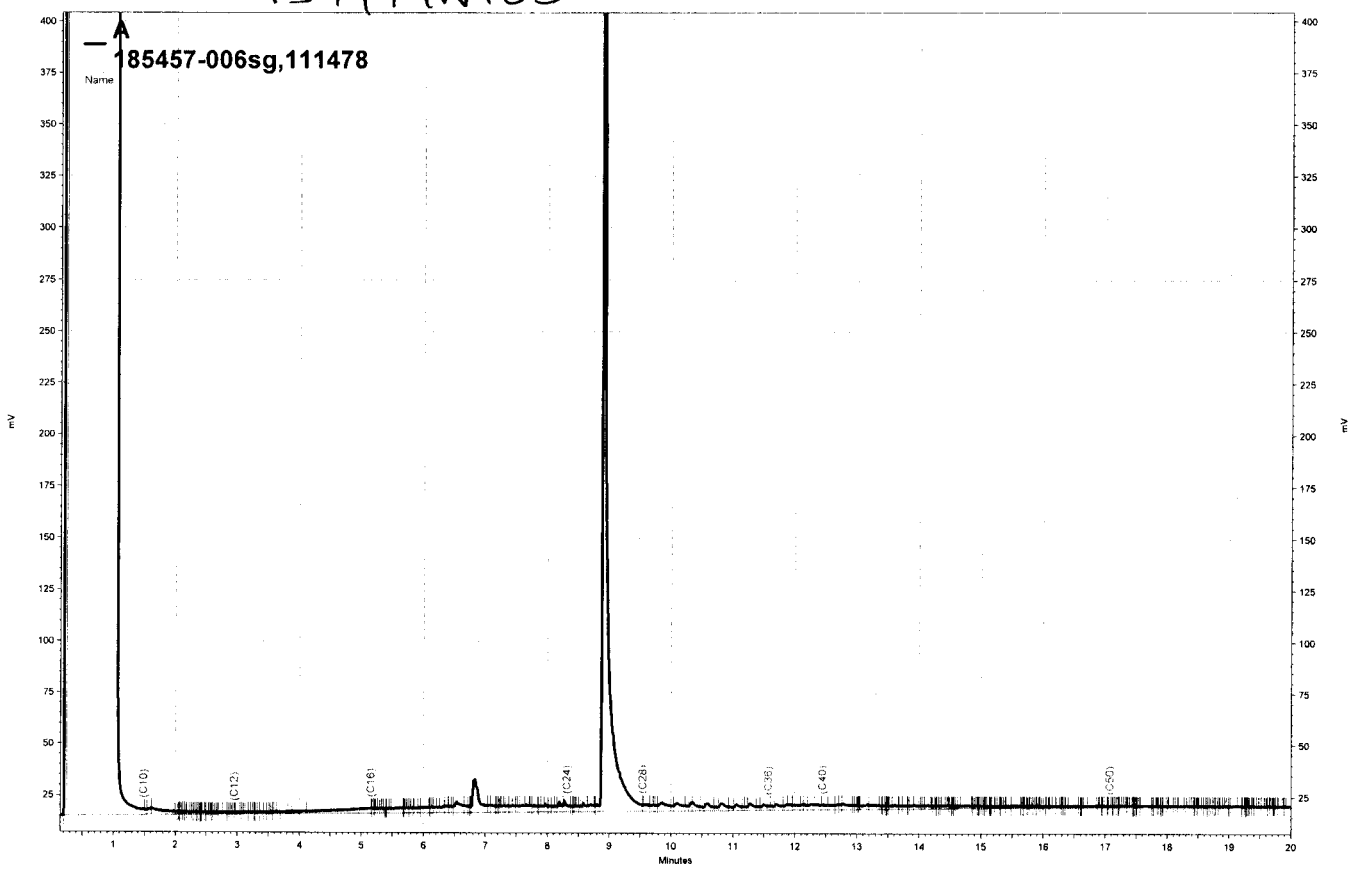
1349 MW103



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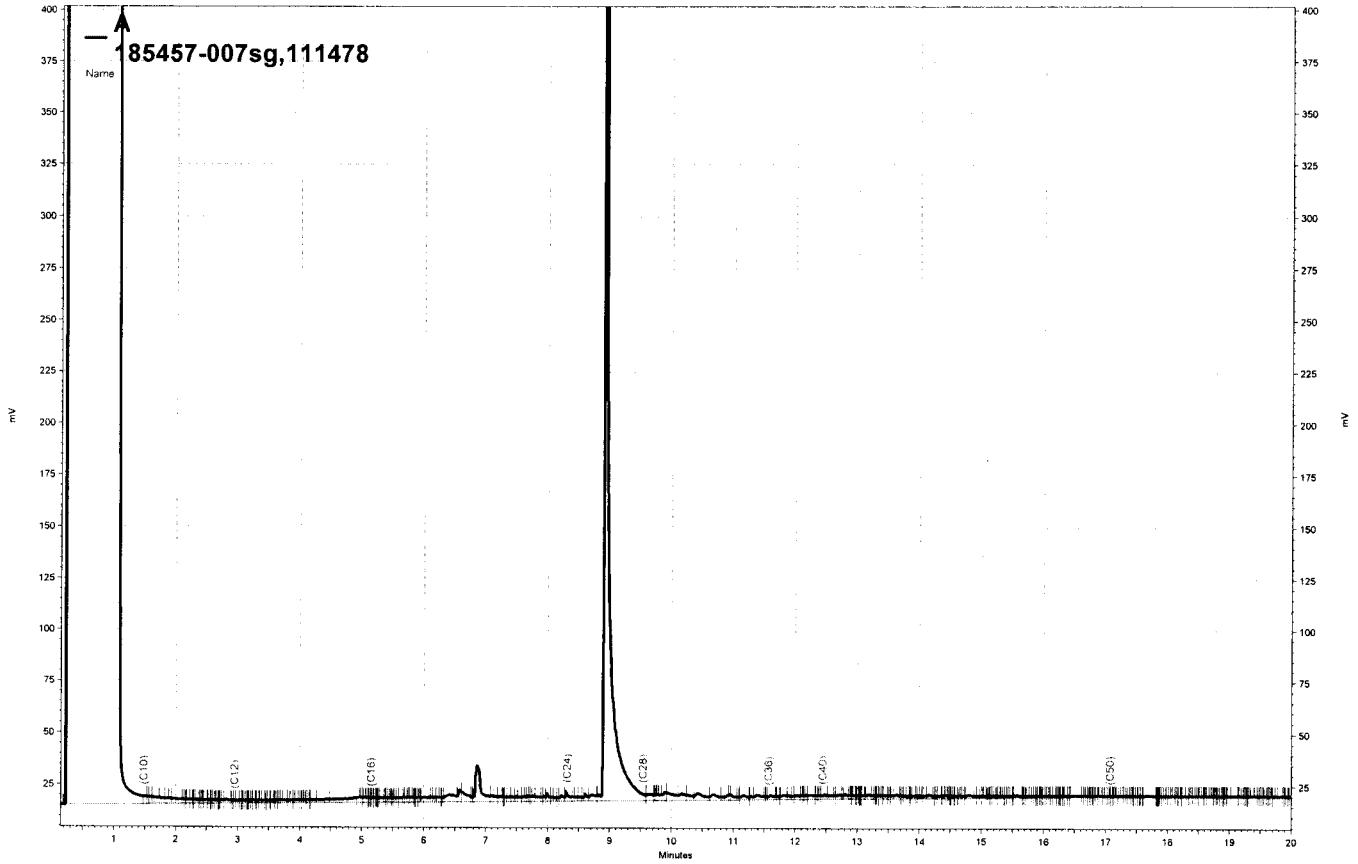
LF5GW101



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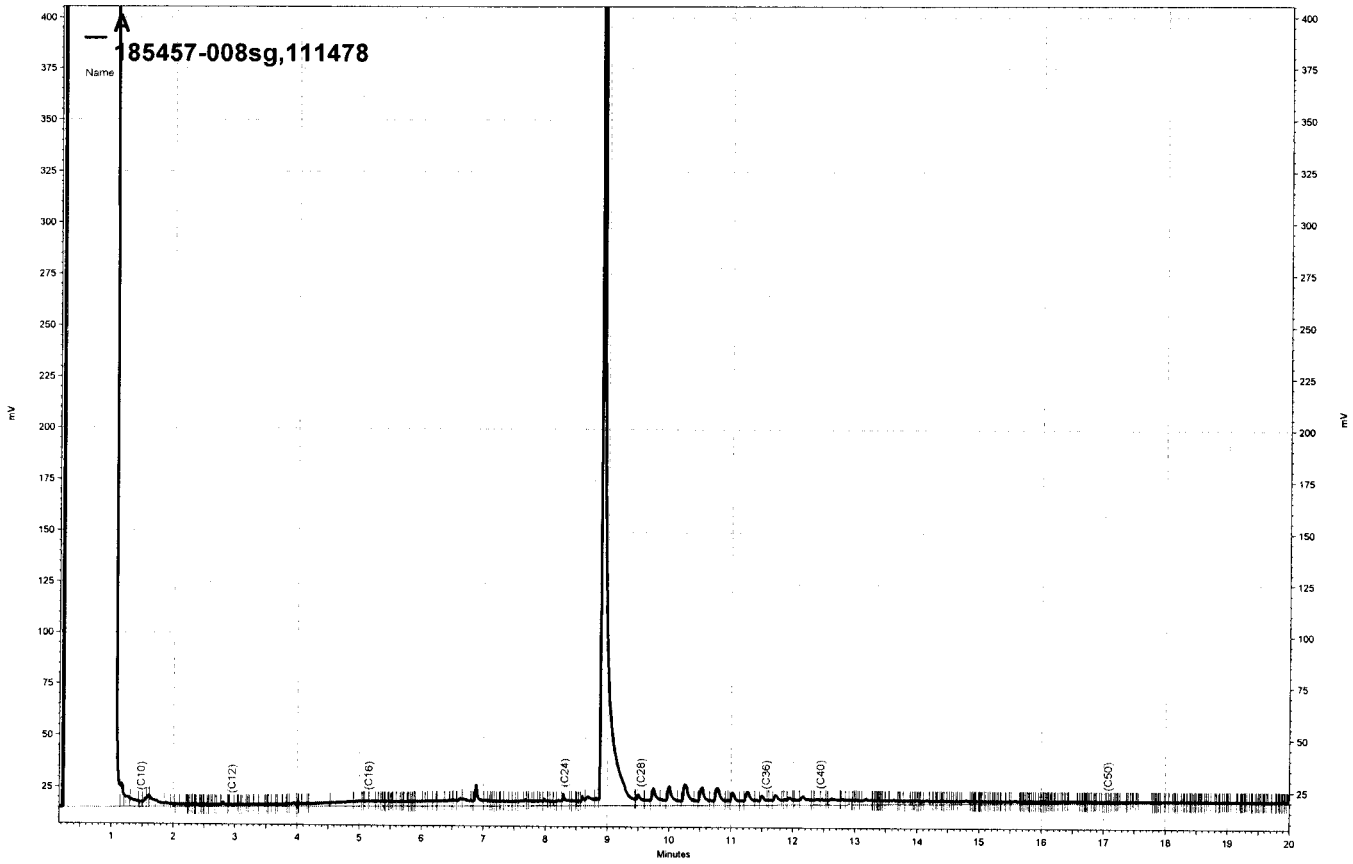
LF5GW100



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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Received:	03/10/06

Field ID:	231GW10	Sampled:	03/09/06
Type:	SAMPLE	Prepared:	03/20/06
Lab ID:	185457-009	Analyzed:	03/22/06
Batch#:	111478	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	91	65-135

Field ID:	231GW30	Sampled:	03/09/06
Type:	SAMPLE	Prepared:	03/20/06
Lab ID:	185457-010	Analyzed:	03/22/06
Batch#:	111478	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	98	65-135

Field ID:	231GW22	Sampled:	03/09/06
Type:	SAMPLE	Prepared:	03/20/06
Lab ID:	185457-011	Analyzed:	03/21/06
Batch#:	111478	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	300 L Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	95	65-135

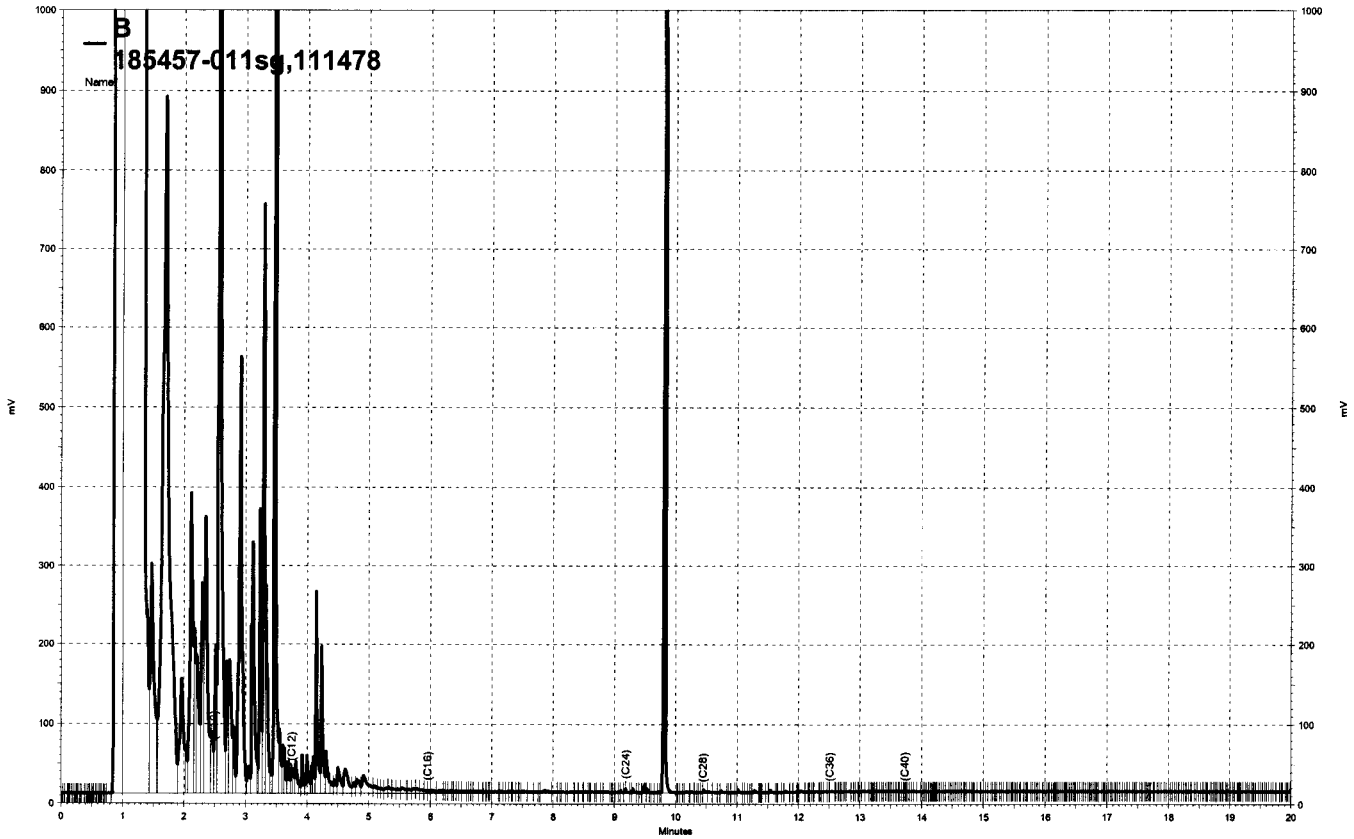
Field ID:	DUP0309061A	Sampled:	03/09/06
Type:	SAMPLE	Prepared:	03/20/06
Lab ID:	185457-012	Analyzed:	03/21/06
Batch#:	111478	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	330 L Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	92	65-135

L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

231GW22



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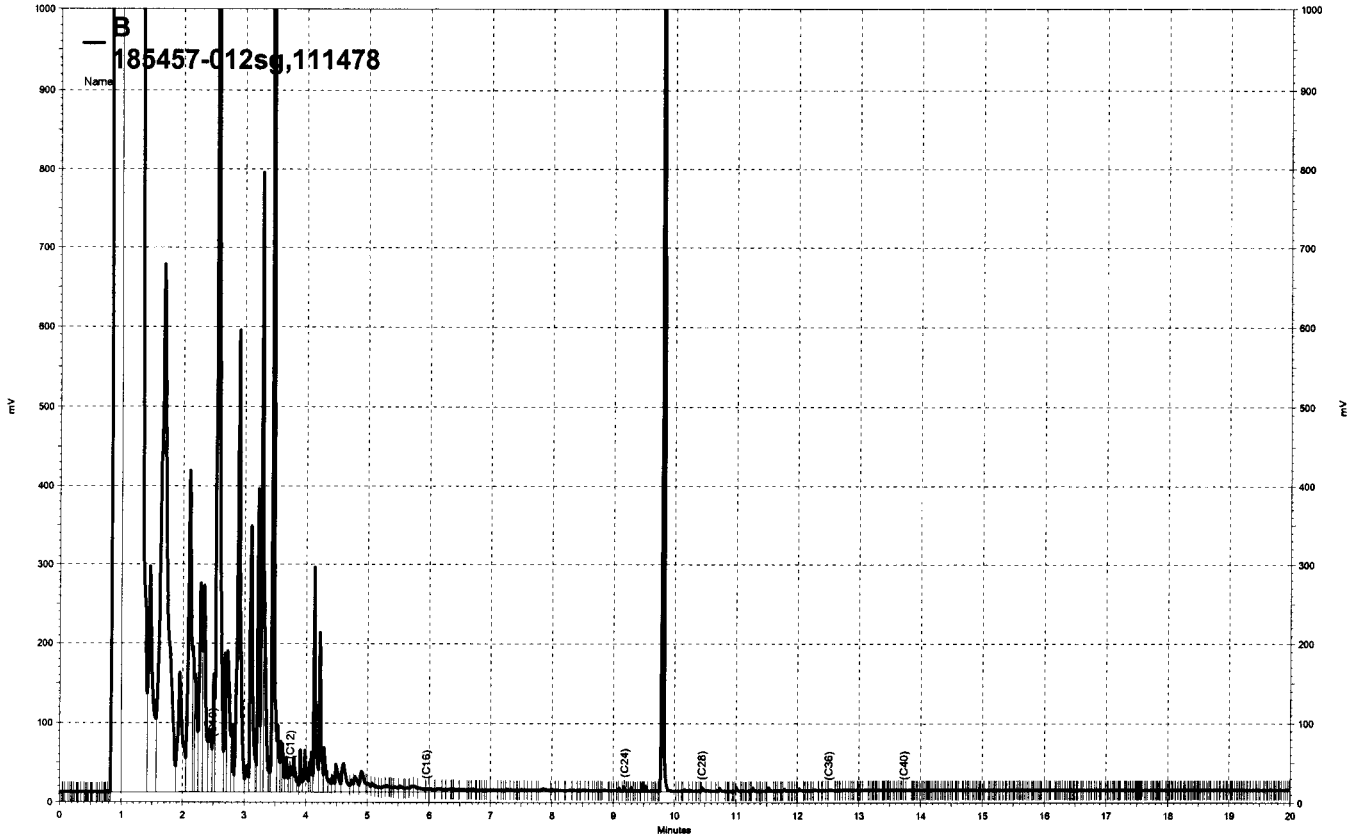
DUP0309061A



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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Received:	03/10/06

Field ID:	231GW16	Sampled:	03/09/06
Type:	SAMPLE	Prepared:	03/20/06
Lab ID:	185457-013	Analyzed:	03/21/06
Batch#:	111478	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	101	65-135

Field ID:	1065PZ4A	Sampled:	03/09/06
Type:	SAMPLE	Prepared:	03/20/06
Lab ID:	185457-014	Analyzed:	03/21/06
Batch#:	111478	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	93	65-135

Field ID:	1349MW02	Sampled:	03/10/06
Type:	SAMPLE	Prepared:	03/20/06
Lab ID:	185457-016	Analyzed:	03/22/06
Batch#:	111478	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	94	65-135

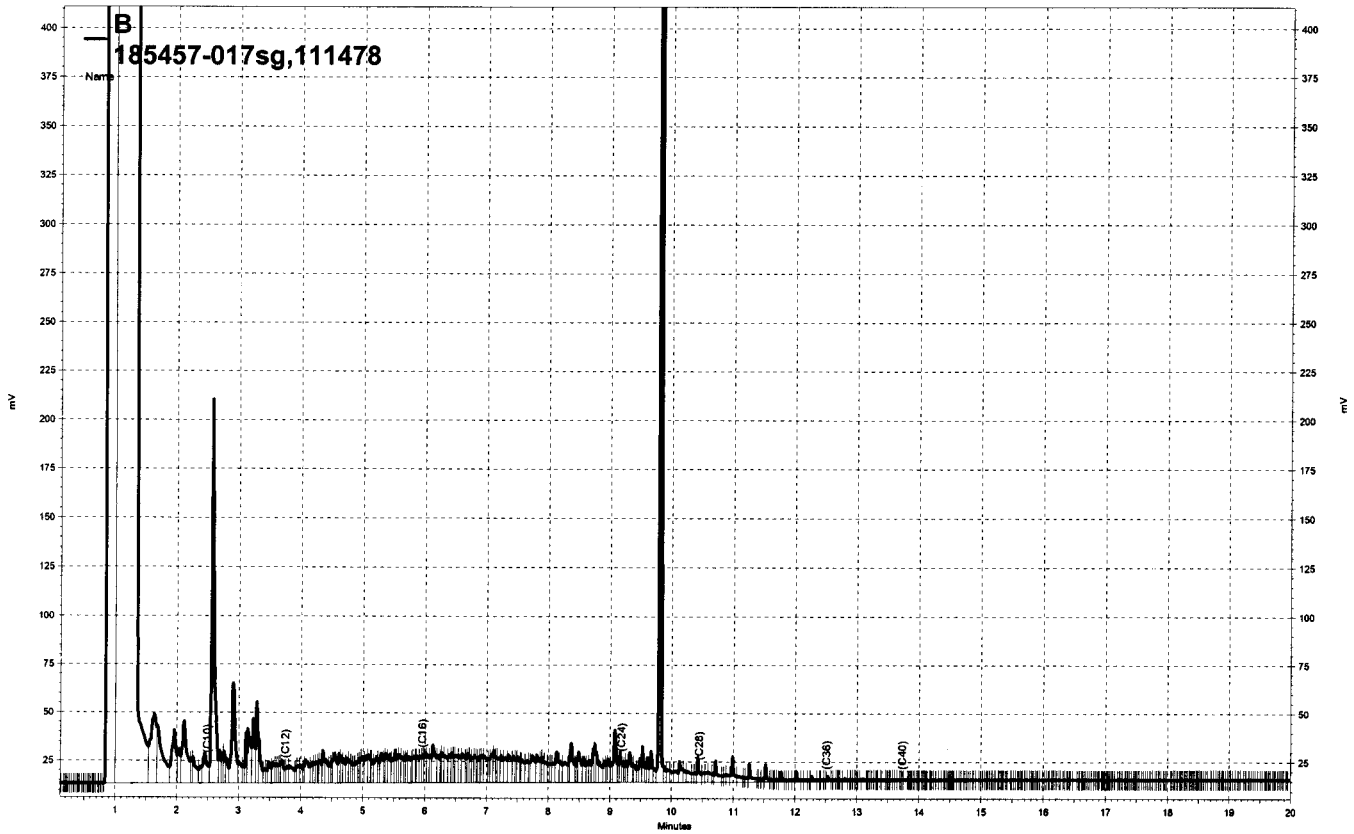
Field ID:	231PZ02	Sampled:	03/10/06
Type:	SAMPLE	Prepared:	03/20/06
Lab ID:	185457-017	Analyzed:	03/22/06
Batch#:	111478	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	430 Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	103	65-135

L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

231PZ02



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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Received:	03/10/06

Field ID:	DUP0309062A	Sampled:	03/09/06
Type:	SAMPLE	Prepared:	03/20/06
Lab ID:	185457-019	Analyzed:	03/22/06
Batch#:	111478	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	102	65-135

Field ID:	950GW108	Sampled:	03/09/06
Type:	SAMPLE	Prepared:	03/20/06
Lab ID:	185457-020	Analyzed:	03/22/06
Batch#:	111478	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	106	65-135

Field ID:	1065PZ3B	Sampled:	03/09/06
Type:	SAMPLE	Prepared:	03/20/06
Lab ID:	185457-021	Analyzed:	03/22/06
Batch#:	111478	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	88	65-135

Field ID:	1065MW9B	Sampled:	03/09/06
Type:	SAMPLE	Prepared:	03/20/06
Lab ID:	185457-022	Analyzed:	03/22/06
Batch#:	111478	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	95	65-135

L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Received:	03/10/06

Field ID:	1065MW9A	Sampled:	03/09/06
Type:	SAMPLE	Prepared:	03/13/06
Lab ID:	185457-023	Analyzed:	03/15/06
Batch#:	111262	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	109	65-135

Field ID:	DUP0309062B	Sampled:	03/09/06
Type:	SAMPLE	Prepared:	03/13/06
Lab ID:	185457-024	Analyzed:	03/15/06
Batch#:	111262	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	109	65-135

Field ID:	1065MW11A	Sampled:	03/09/06
Type:	SAMPLE	Prepared:	03/13/06
Lab ID:	185457-025	Analyzed:	03/15/06
Batch#:	111262	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	102	65-135

Field ID:	1065MW10B	Sampled:	03/09/06
Type:	SAMPLE	Prepared:	03/13/06
Lab ID:	185457-026	Analyzed:	03/15/06
Batch#:	111262	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	87	65-135

L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Received:	03/10/06

Field ID:	1065PZ6B	Sampled:	03/10/06
Type:	SAMPLE	Prepared:	03/13/06
Lab ID:	185457-027	Analyzed:	03/15/06
Batch#:	111262	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	90	65-135

Type:	BLANK	Prepared:	03/13/06
Lab ID:	QC331314	Analyzed:	03/14/06
Batch#:	111262	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	66	65-135

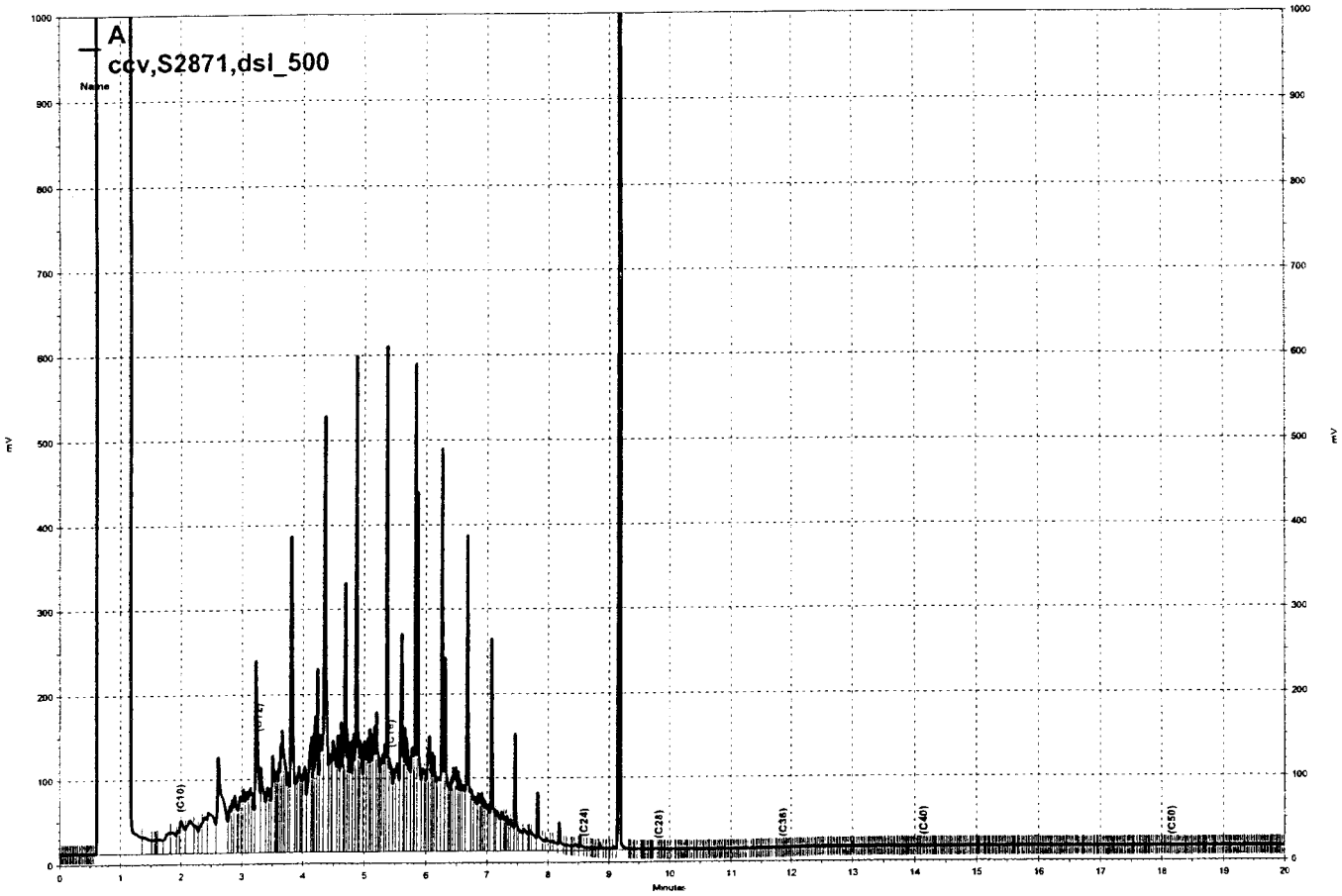
Type:	BLANK	Prepared:	03/20/06
Lab ID:	QC332219	Analyzed:	03/22/06
Batch#:	111478	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	94	65-135

L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Diesel



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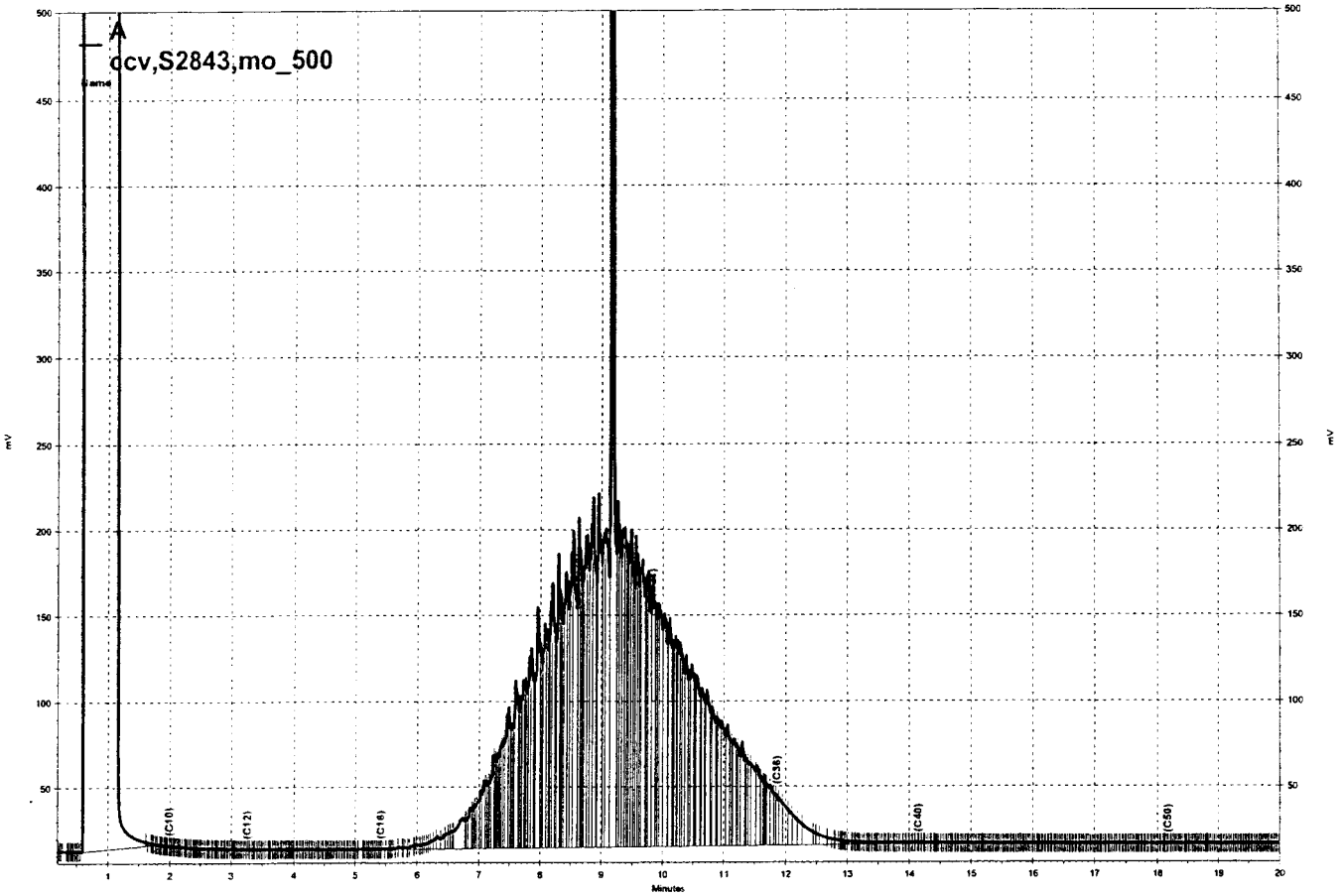
Motor Oil



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Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331315	Batch#:	111262
Matrix:	Water	Prepared:	03/13/06
Units:	ug/L	Analyzed:	03/14/06

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	2,500	1,898	76	65-135

Surrogate	%REC	Limits
Hexacosane	83	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC332220	Batch#:	111478
Matrix:	Water	Prepared:	03/20/06
Units:	ug/L	Analyzed:	03/21/06

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	2,500	2,730	109	65-135

Surrogate	%REC	Limits
Hexacosane	94	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1065PZ6B	Batch#:	111262
MSS Lab ID:	185457-027	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/13/06
Diln Fac:	1.000	Analyzed:	03/16/06

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC331316

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	32.84	2,500	2,674	106	65-135

Surrogate	%REC	Limits
Hexacosane	127	65-135

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC331317

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,987	118	65-135	11	35

Surrogate	%REC	Limits
Hexacosane	137 *	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1260GW102	Batch#:	111478
MSS Lab ID:	185457-003	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/20/06
Diln Fac:	1.000	Analyzed:	03/23/06

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC332221

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	43.03	2,500	2,207	87	65-135

Surrogate	%REC	Limits
Hexacosane	84	65-135

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC332222

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,543	100	65-135	14	35

Surrogate	%REC	Limits
Hexacosane	95	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	231GW10	Batch#:	111478
MSS Lab ID:	185457-009	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/20/06
Diln Fac:	1.000	Analyzed:	03/23/06

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC332223

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	<32.78	2,500	1,988	80	65-135

Surrogate	%REC	Limits
Hexacosane	78	65-135

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC332224

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,349	94	65-135	17	35

Surrogate	%REC	Limits
Hexacosane	90	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1349MW02	Batch#:	111478
MSS Lab ID:	185457-016	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/20/06
Diln Fac:	1.000	Analyzed:	03/23/06

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC332225

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	<20.34	2,500	2,223	89	65-135

Surrogate	%REC	Limits
Hexacosane	83	65-135

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC332226

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,235	89	65-135	1	35

Surrogate	%REC	Limits
Hexacosane	81	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	950GW108	Batch#:	111478
MSS Lab ID:	185457-020	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/20/06
Diln Fac:	1.000	Analyzed:	03/23/06

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC332227

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	<20.34	2,500	2,211	88	65-135

Surrogate	%REC	Limits
Hexacosane	84	65-135

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC332228

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,283	91	65-135	3	35

Surrogate	%REC	Limits
Hexacosane	86	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185457 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 115446255002
Units : mg/L

Name : DIESEL
Date : 05-NOV-2005 23:53
X Axis : R

Reviewer: RH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	309a011	115446255011	dsl_10	05-NOV-2005 23:53	S1732
L2	309a013	115446255013	dsl_250	06-NOV-2005 00:49	S1734
L3	309a014	115446255014	dsl_500	06-NOV-2005 01:17	S1735
L4	309a015	115446255015	dsl_1000	06-NOV-2005 01:45	S1736
L5	309a016	115446255016	dsl_2500	06-NOV-2005 02:12	S1737
L6	309a017	115446255017	dsl_5000	06-NOV-2005 02:40	S1731
L7	309a039	115446255039	dsl_100	06-NOV-2005 22:23	S1733

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	66564	67471	67989	68804	69120	69411	70464	AVRG		1.46E-5		68546	2	0.995	20	

122

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185457 GCSV Water
EPA 8015B

Inst : GC11A
Calnum : 115446255002

Name : DIESEL
Cal Date: 05-NOV-2005

ICV 115446255040 (309a040 06-NOV-2005) stds: S1178

Analyte	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	500.0	498.6	mg/L	0	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185457 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 116049801004
Units : mg/L

Date : 04-FEB-2006 00:18
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	034a023	116049801023	mo_50	04-FEB-2006 00:18	S2118
L2	034a024	116049801024	mo_250	04-FEB-2006 00:46	S2119
L3	034a025	116049801025	mo_500	04-FEB-2006 01:14	S2120
L4	034a026	116049801026	mo_1000	04-FEB-2006 01:42	S2121
L5	034a027	116049801027	mo_2500	04-FEB-2006 02:10	S2122
L6	034a028	116049801028	mo_5000	04-FEB-2006 02:39	S2117

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	40103	42997	43448	44594	44247	45696	AVRG		2.30E-5		43514	4	0.995	20	

124

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

116049801004

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185457 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 115446255001
Units : mg/L

Name : Hexacosane
Date : 05-NOV-2005 21:35
X Axis : R

Reviewer: RH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	309a006	115446255006	hex_5	05-NOV-2005 21:35	S1469
L2	309a007	115446255007	hex_10	05-NOV-2005 22:02	S1470
L3	309a008	115446255008	hex_25	05-NOV-2005 22:30	S1471
L4	309a009	115446255009	hex_50	05-NOV-2005 22:58	S1472
L5	309a010	115446255010	hex_75	05-NOV-2005 23:25	S1473

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	78300	78621	78154	81971	77951	AVRG		1.27E-5		78999	2	0.995	20	

125

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185457 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166057264001
Units : mg/L

Date : 08-FEB-2006 19:20
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	039b003	166057264003	dsl_10	08-FEB-2006 19:20	S1732
L2	039b004	166057264004	dsl_100	08-FEB-2006 19:48	S1733
L3	039b005	166057264005	dsl_250	08-FEB-2006 20:16	S1734
L4	039b006	166057264006	dsl_500	08-FEB-2006 20:44	S1735
L5	039b007	166057264007	dsl_1000	08-FEB-2006 21:12	S1736
L6	039b008	166057264008	dsl_2500	08-FEB-2006 21:40	S1737
L7	039b009	166057264009	dsl_5000	08-FEB-2006 22:08	S1731

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	43257	40772	42782	45713	48994	47310	45537	AVRG		2.23E-5		44909	6	0.995	20	

126

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

166057264001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185457 GCSV Water
EPA 8015B

Inst : GC15B
Calnum : 166057264001 Cal Date: 08-FEB-2006

ICV 166057264038 (039b038 09-FEB-2006) stds: S2708

Analyte	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	500.0	488.7	mg/L	-2	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185457 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166115824002
Units : mg/L

Date : 21-MAR-2006 14:52
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	080b006	166115824006	mo_50	21-MAR-2006 14:52	S2118
L2	080b007	166115824007	mo_250	21-MAR-2006 15:20	S2119
L3	080b008	166115824008	mo_500	21-MAR-2006 15:49	S2120
L4	080b009	166115824009	mo_1000	21-MAR-2006 16:17	S2121
L5	080b010	166115824010	mo_2500	21-MAR-2006 16:46	S2122
L6	080b011	166115824011	mo_5000	21-MAR-2006 17:15	S2117

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	35689	35718	36071	34029	27094	20672	AVRG		3.17E-5		31546	20	0.995	20	

128

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

166115824002

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185457 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166057264002
Units : mg/L

Date : 09-FEB-2006 02:21
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	039b018	166057264018	hex_5	09-FEB-2006 02:21	S2694
L2	039b019	166057264019	hex_10	09-FEB-2006 02:49	S2695
L3	039b020	166057264020	hex_25	09-FEB-2006 03:18	S2696
L4	039b021	166057264021	hex_50	09-FEB-2006 03:46	S2697
L5	039b022	166057264022	hex_75	09-FEB-2006 04:14	S2698

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	54754	51734	51569	51826	53327	AVRG		1.90E-5		52642	3	0.995	20	

129

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

166057264002

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185457 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166114247001
Units : mg/L

Date : 20-MAR-2006 14:52
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	079b007	166114247007	hex_5	20-MAR-2006 14:52	S2694
L2	079b008	166114247008	hex_10	20-MAR-2006 15:20	S2695
L3	079b009	166114247009	hex_25	20-MAR-2006 15:49	S2696
L4	079b010	166114247010	hex_50	20-MAR-2006 16:17	S2697
L5	079b011	166114247011	hex_75	20-MAR-2006 16:45	S2698

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	64028	62636	61750	60993	60763	AVRG		1.61E-5		62034	2	0.995	20	

130

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

166114247001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185457 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176085452001
Units : mg/L

Date : 01-MAR-2006 07:43
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	059a013	176085452013	dsl_50	01-MAR-2006 07:43	S1732
L2	059a014	176085452014	dsl_100	01-MAR-2006 08:10	S1733
L3	059a015	176085452015	dsl_250	01-MAR-2006 08:37	S1734
L4	059a016	176085452016	dsl_500	01-MAR-2006 09:04	S1735
L5	059a017	176085452017	dsl_1000	01-MAR-2006 09:32	S1736
L6	059a018	176085452018	dsl_2500	01-MAR-2006 10:00	S1737
L7	059a019	176085452019	dsl_5000	01-MAR-2006 10:27	S1731

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	55630	52210	52572	55087	56497	58583	60304	AVRG		1.79E-5		55841	5	0.995	20	

131

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185457 GCSV Water
EPA 8015B

Inst : GC17A
Calnum : 176085452001 Cal Date: 01-MAR-2006

ICV 176085452021 (059a021 01-MAR-2006) stds: S2708

Analyte	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	500.0	454.9	mg/L	-9	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185457 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176093018001
Units : mg/L

Date : 05-MAR-2006 18:11
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	064a007	176093018007	mo_50	05-MAR-2006 18:11	S2118
L2	064a008	176093018008	mo_250	05-MAR-2006 18:38	S2119
L3	064a009	176093018009	mo_500	05-MAR-2006 19:05	S2120
L4	064a010	176093018010	mo_1000	05-MAR-2006 19:32	S2121
L5	064a011	176093018011	mo_2500	05-MAR-2006 20:00	S2122
L6	064a012	176093018012	mo_5000	05-MAR-2006 20:27	S2117

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	35446	41492	40972	42562	41512	41334	AVRG		2.47E-5		40553	6	0.995	20	

133

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

176093018001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185457 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176098515001
Units : mg/L

Name : hexagc17cal
Date : 09-MAR-2006 19:42
X Axis : R

Reviewer: CW
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	068a015	176098515015	hex_5	09-MAR-2006 19:42	S2694
L2	068a016	176098515016	hex_10	09-MAR-2006 20:09	S2695
L3	068a017	176098515017	hex_25	09-MAR-2006 20:37	S2696
L4	068a018	176098515018	hex_50	09-MAR-2006 21:04	S2697
L5	068a019	176098515019	hex_75	09-MAR-2006 21:31	S2698

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	81036	80318	79162	79599	78325	AVRG		1.25E-5		79688	1	0.995	20	

134

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

Instid	Ch	Segnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116105591020	14-MAR-2006 18:36	115446255002	05-NOV-2005	68546	62951	500.00	459.19	mg/L	-8	15	
GC11A	A	116105591036	15-MAR-2006 02:09	115446255002	05-NOV-2005	68546	62235	1000.0	907.94	mg/L	-9	15	
GC11A	A	116105591049	15-MAR-2006 08:09	115446255002	05-NOV-2005	68546	62470	500.00	455.68	mg/L	-9	15	
GC11A	A	116114237073	22-MAR-2006 00:50	115446255002	05-NOV-2005	68546	63520	500.00	463.34	mg/L	-7	15	
GC11A	A	116114237087	22-MAR-2006 07:22	115446255002	05-NOV-2005	68546	62625	1000.0	913.61	mg/L	-9	15	
GC11A	A	116117499043	23-MAR-2006 11:22	115446255002	05-NOV-2005	68546	62153	1000.0	906.73	mg/L	-9	15	
GC11A	A	116117499058	23-MAR-2006 19:30	115446255002	05-NOV-2005	68546	63163	1000.0	921.46	mg/L	-8	15	
GC15B	B	166108456008	16-MAR-2006 12:48	166057264001	08-FEB-2006	44909	49255	1000.0	1096.8	mg/L	10	15	
GC15B	B	166108456012	16-MAR-2006 14:48	166057264001	08-FEB-2006	44909	49244	500.00	548.27	mg/L	10	15	
GC15B	B	166115824013	21-MAR-2006 18:21	166057264001	08-FEB-2006	44909	49079	1000.0	1092.8	mg/L	9	15	
GC15B	B	166115824027	22-MAR-2006 02:41	166057264001	08-FEB-2006	44909	50589	250.00	281.62	mg/L	13	15	
GC17A	A	176105567053	15-MAR-2006 09:00	176085452001	01-MAR-2006	55841	58084	250.00	260.04	mg/L	4	15	
GC17A	A	176105567067	15-MAR-2006 15:22	176085452001	01-MAR-2006	55841	63298	500.00	566.78	mg/L	13	15	
GC17A	A	176114438074	21-MAR-2006 22:27	176085452001	01-MAR-2006	55841	55930	250.00	250.40	mg/L	0	15	
GC17A	A	176114438088	22-MAR-2006 04:50	176085452001	01-MAR-2006	55841	62677	500.00	561.21	mg/L	12	15	
GC17A	A	176114438103	22-MAR-2006 13:20	176085452001	01-MAR-2006	55841	62003	1000.0	1110.4	mg/L	11	15	

CONTINUING CALIBRATION SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116105591021	14-MAR-2006 19:09	116049801004	04-FEB-2006	43514	44554	500.00	511.94	mg/L	2	15	
GC11A	A	116105591035	15-MAR-2006 01:42	116049801004	04-FEB-2006	43514	44225	500.00	508.16	mg/L	2	15	
GC11A	A	116105591050	15-MAR-2006 08:37	116049801004	04-FEB-2006	43514	43922	500.00	504.69	mg/L	1	15	
GC11A	A	116114237072	22-MAR-2006 00:21	116049801004	04-FEB-2006	43514	40234	500.00	462.31	mg/L	-8	15	
GC11A	A	116114237086	22-MAR-2006 06:54	116049801004	04-FEB-2006	43514	42079	500.00	483.51	mg/L	-3	15	
GC15B	B	166115824015	21-MAR-2006 19:27	166115824002	21-MAR-2006	31546	36261	500.00	574.74	mg/L	15	15	
GC15B	B	166115824028	22-MAR-2006 03:09	166115824002	21-MAR-2006	31546	33989	500.00	538.72	mg/L	8	15	
GC17A	A	176105567054	15-MAR-2006 09:27	176093018001	05-MAR-2006	40553	45432	500.00	560.15	mg/L	12	15	
GC17A	A	176105567068	15-MAR-2006 15:50	176093018001	05-MAR-2006	40553	42054	500.00	518.50	mg/L	4	15	
GC17A	A	176114438075	21-MAR-2006 22:54	176093018001	05-MAR-2006	40553	38428	500.00	473.80	mg/L	-5	15	
GC17A	A	176114438089	22-MAR-2006 05:18	176093018001	05-MAR-2006	40553	42427	500.00	523.10	mg/L	5	15	
GC17A	A	176114438104	22-MAR-2006 13:47	176093018001	05-MAR-2006	40553	42424	500.00	523.07	mg/L	5	15	

CONTINUING CALIBRATION SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116105591017	14-MAR-2006 16:05	115446255001	05-NOV-2005	78999	70819	50.000	44.822	mg/L	-10	15	
GC11A	A	116105591035	15-MAR-2006 01:42	115446255001	05-NOV-2005	78999	70509	50.000	44.626	mg/L	-11	15	
GC11A	A	116105591049	15-MAR-2006 08:09	115446255001	05-NOV-2005	78999	69568	50.000	44.030	mg/L	-12	15	
GC11A	A	116114237072	22-MAR-2006 00:21	115446255001	05-NOV-2005	78999	70339	50.000	44.519	mg/L	-11	15	
GC11A	A	116114237086	22-MAR-2006 06:54	115446255001	05-NOV-2005	78999	71237	50.000	45.087	mg/L	-10	15	
GC11A	A	116117499042	23-MAR-2006 10:41	115446255001	05-NOV-2005	78999	70440	50.000	44.583	mg/L	-11	15	
GC11A	A	116117499057	23-MAR-2006 19:02	115446255001	05-NOV-2005	78999	69261	50.000	43.836	mg/L	-12	15	
GC15B	B	166108456003	16-MAR-2006 08:54	166057264002	09-FEB-2006	52642	60626	50.000	57.583	mg/L	15	15	
GC15B	B	166108456012	16-MAR-2006 14:48	166057264002	09-FEB-2006	52642	59976	50.000	56.966	mg/L	14	15	
GC15B	B	166115824013	21-MAR-2006 18:21	166114247001	20-MAR-2006	62034	53959	50.000	43.492	mg/L	-13	15	
GC15B	B	166115824027	22-MAR-2006 02:41	166114247001	20-MAR-2006	62034	65232	50.000	52.577	mg/L	5	15	
GC17A	A	176105567053	15-MAR-2006 09:00	176098515001	09-MAR-2006	79688	76694	50.000	48.122	mg/L	-4	15	
GC17A	A	176105567067	15-MAR-2006 15:22	176098515001	09-MAR-2006	79688	78354	50.000	49.163	mg/L	-2	15	
GC17A	A	176114438074	21-MAR-2006 22:27	176098515001	09-MAR-2006	79688	73300	50.000	45.992	mg/L	-8	15	
GC17A	A	176114438088	22-MAR-2006 04:50	176098515001	09-MAR-2006	79688	75936	50.000	47.646	mg/L	-5	15	
GC17A	A	176114438103	22-MAR-2006 13:20	176098515001	09-MAR-2006	79688	68583	50.000	43.032	mg/L	-14	15	

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 115446255 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 05-NOV-2005
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
003	309a003	X	c12-60			05-NOV-2005 20:11	1.0						
004	309a004	X	c50			05-NOV-2005 20:39	1.0						
005	309a005	X	ib			05-NOV-2005 21:07	1.0						
006	309a006	ICAL	hex_5			05-NOV-2005 21:35	1.0					1	
007	309a007	ICAL	hex_10			05-NOV-2005 22:02	1.0					2	
008	309a008	ICAL	hex_25			05-NOV-2005 22:30	1.0					3	
009	309a009	ICAL	hex_50			05-NOV-2005 22:58	1.0					4	
010	309a010	ICAL	hex_75			05-NOV-2005 23:25	1.0					5	
011	309a011	ICAL	dsl_10			05-NOV-2005 23:53	1.0					6	
013	309a013	ICAL	dsl_250			06-NOV-2005 00:49	1.0					7	
014	309a014	ICAL	dsl_500			06-NOV-2005 01:17	1.0					8	
015	309a015	ICAL	dsl_1000			06-NOV-2005 01:45	1.0					9	
016	309a016	ICAL	dsl_2500			06-NOV-2005 02:12	1.0					10	
017	309a017	ICAL	dsl_5000			06-NOV-2005 02:40	1.0					11	
039	309a039	ICAL	dsl_100			06-NOV-2005 22:23	1.0					12	138
040	309a040	ICV	dsl			06-NOV-2005 23:18	1.0		3			13	
041	309a041	ICAL	mo_50			06-NOV-2005 23:46	1.0					14	
042	309a042	ICAL	mo_250			07-NOV-2005 00:14	1.0					15	
043	309a043	ICAL	mo_500			07-NOV-2005 00:42	1.0					16	
044	309a044	ICAL	mo_1000			07-NOV-2005 01:10	1.0					17	
045	309a045	ICAL	mo_2500			07-NOV-2005 01:38	1.0					18	
046	309a046	ICAL	mo_5000			07-NOV-2005 02:06	1.0					19	

Stds used: 1=S1469 2=S1470 3=S1471 4=S1472 5=S1473 6=S1732 7=S1734 8=S1735 9=S1736 10=S1737 11=S1731 12=S1733 13=S1178 14=S693 15=S694 16=S695 17=S696 18=S697 19=S691

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116049801 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 03-FEB-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	034a001	X	primer			03-FEB-2006 14:01	1.0							
002	034a002	X	ib			03-FEB-2006 14:29	1.0							
003	034a003	CCV	dsl_250			03-FEB-2006 14:57	1.0			3			1	
004	034a004	X	ib			03-FEB-2006 15:25	1.0							
005	034a005	CCV	mo_500			03-FEB-2006 15:53	1.0	6		3			2	
006	034a006	?SAMPLE	184620-007			03-FEB-2006 16:21	1.0							
007	034a007	?SAMPLE	184620-008			03-FEB-2006 16:49	1.0							
008	034a008	?SAMPLE	184620-009			03-FEB-2006 17:17	1.0							
009	034a009	?SAMPLE	184620-010			03-FEB-2006 17:45	1.0							
010	034a010	X	ib			03-FEB-2006 18:13	1.0							
011	034a011	?SAMPLE	184620-006			03-FEB-2006 18:41	1.0							
012	034a012	?SAMPLE	184620-004			03-FEB-2006 19:09	1.0							
013	034a013	?SAMPLE	184620-005			03-FEB-2006 19:37	1.0							
014	034a014	X	ib			03-FEB-2006 20:05	1.0							
015	034a015	?SAMPLE	184620-001			03-FEB-2006 20:33	1.0							139
016	034a016	?SAMPLE	184620-002			03-FEB-2006 21:01	1.0							
017	034a017	?SAMPLE	184620-003			03-FEB-2006 21:29	1.0							
018	034a018	X	ib			03-FEB-2006 21:57	1.0							
019	034a019	CCV	dsl_500			03-FEB-2006 22:25	1.0						3	
020	034a020	X	ib			03-FEB-2006 22:54	1.0							
021	034a021	X	ib			03-FEB-2006 23:22	1.0							
022	034a022	X	ib			03-FEB-2006 23:50	1.0							
023	034a023	ICAL	mo_50			04-FEB-2006 00:18	1.0						4	
024	034a024	ICAL	mo_250			04-FEB-2006 00:46	1.0						5	
025	034a025	ICAL	mo_500			04-FEB-2006 01:14	1.0						6	
026	034a026	ICAL	mo_1000			04-FEB-2006 01:42	1.0						7	
027	034a027	ICAL	mo_2500			04-FEB-2006 02:10	1.0						8	
028	034a028	ICAL	mo_5000			04-FEB-2006 02:39	1.0						9	
029	034a029	X	ib			04-FEB-2006 03:07	1.0							

Stds used: 1=S2505 2=S2577 3=S2504 4=S2118 5=S2119 6=S2120 7=S2121 8=S2122 9=S2117

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166057264 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 08-FEB-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
001	039b001	X	primer			08-FEB-2006 18:24	1.0				
002	039b002	X	ib			08-FEB-2006 18:52	1.0				
003	039b003	ICAL	dsl_10			08-FEB-2006 19:20	1.0	1.0		1	
004	039b004	ICAL	dsl_100			08-FEB-2006 19:48	1.0	1.0		2	
005	039b005	ICAL	dsl_250			08-FEB-2006 20:16	1.0	1.0		3	
006	039b006	ICAL	dsl_500			08-FEB-2006 20:44	1.0	1.0		4	
007	039b007	ICAL	dsl_1000			08-FEB-2006 21:12	1.0	1.0		5	
008	039b008	ICAL	dsl_2500			08-FEB-2006 21:40	1.0	1.0		6	
009	039b009	ICAL	dsl_5000			08-FEB-2006 22:08	1.0	1.0		7	
010	039b010	X	ib			08-FEB-2006 22:36	1.0				
011	039b011	ICAL	mo_50			08-FEB-2006 23:04	1.0			8	
012	039b012	ICAL	mo_250			08-FEB-2006 23:32	1.0			9	
013	039b013	ICAL	mo_500			09-FEB-2006 00:00	1.0			10	
014	039b014	ICAL	mo_1000			09-FEB-2006 00:28	1.0			11	
015	039b015	ICAL	mo_2500			09-FEB-2006 00:57	1.0			12	140
016	039b016	ICAL	mo_5000			09-FEB-2006 01:25	1.0			13	
017	039b017	X	ib			09-FEB-2006 01:53	1.0				
018	039b018	ICAL	hex_5			09-FEB-2006 02:21	1.0	1.0		14	
019	039b019	ICAL	hex_10			09-FEB-2006 02:49	1.0	1.0		15	
020	039b020	ICAL	hex_25			09-FEB-2006 03:18	1.0	1.0		16	
021	039b021	ICAL	hex_50			09-FEB-2006 03:46	1.0	1.0		17	
022	039b022	ICAL	hex_75			09-FEB-2006 04:14	1.0	1.0		18	
023	039b023	X	ib			09-FEB-2006 04:42	1.0				
024	039b024	X	cm			09-FEB-2006 05:10	1.0			19	
025	039b025	X	cm			09-FEB-2006 05:38	1.0			20	
026	039b026	X	C50			09-FEB-2006 06:06	1.0				
027	039b027	X	ib			09-FEB-2006 06:34	1.0				
028	039b028	CCV	dsl_500			09-FEB-2006 07:02	1.0			21	
029	039b029	CCV	mo_500			09-FEB-2006 07:30	1.0			22	
030	039b030	X	ib			09-FEB-2006 12:01	1.0				

Stds used: 1=S1732 2=S1733 3=S1734 4=S1735 5=S1736 6=S1737 7=S1731 8=S2118 9=S2119 10=S2120 11=S2121 12=S2122 13=S2117 14=S2694 15=S2695 16=S2696 17=S2697 18=S2698
19=03SS15 20=03SS16 21=S2662 22=S2577 23=S2708 24=S2647

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166057264 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 08-FEB-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
031	039b031	ICAL	mo_50			09-FEB-2006 12:34	1.0	1.0			8	
032	039b032	ICAL	mo_250			09-FEB-2006 13:02	1.0	1.0			9	
033	039b033	ICAL	mo_500			09-FEB-2006 13:30	1.0	1.0			10	
034	039b034	ICAL	mo_1000			09-FEB-2006 13:58	1.0	1.0			11	
035	039b035	ICAL	mo_2500			09-FEB-2006 14:26	1.0	1.0			12	
036	039b036	ICAL	mo_5000			09-FEB-2006 14:54	1.0	1.0			13	
037	039b037	X	ib			09-FEB-2006 15:22	1.0					
038	039b038	ICV	dsl_500			09-FEB-2006 16:12	1.0	1.0		3	23	
039	039b039	CCV	mo_500			09-FEB-2006 17:37	1.0	1.0		3	22	
040	039b040	SAMPLE	184699-001 S	110166	Soil	09-FEB-2006 18:21	40.0	0.09907		3		3:BUNKC:=13988.6
041	039b041	MSS	184699-007 S	110166	Soil	09-FEB-2006 18:49	10.0	0.09925	10	3		4:BUNKC:=18223.2
042	039b042	X	ib			09-FEB-2006 19:17	1.0					
043	039b043	SAMPLE	184753-006	110209	Soil	09-FEB-2006 19:45	20.0	0.09934		3		2:BUNKC:=10771.9
044	039b044	SAMPLE	184753-007	110209	Soil	09-FEB-2006 20:14	20.0	0.1000		3		
045	039b045	X	ib			09-FEB-2006 20:42	1.0					
046	039b046	SAMPLE	184753-002	110209	Soil	09-FEB-2006 21:10	10.0	0.1005		3		2:BUNKC:=9534.99
047	039b047	SAMPLE	184753-003	110209	Soil	09-FEB-2006 21:39	1.0	0.1009		3		2:BUNKC:=6880.80
048	039b048	X	ib			09-FEB-2006 22:07	1.0					
049	039b049	SAMPLE	184697-003 S	110209	Soil	09-FEB-2006 22:35	10.0	0.1001		3		2:BUNKC:=8298.73
050	039b050	SAMPLE	184753-001	110209	Soil	09-FEB-2006 23:04	5.0	0.1001		3		
051	039b051	X	ib			09-FEB-2006 23:32	1.0					
052	039b052	CCV	dsl_1000			10-FEB-2006 00:00	1.0	1.0		3	24	
053	039b053	CCV	mo_500			10-FEB-2006 00:28	1.0	1.0		3	22	
054	039b054	X	ccv			10-FEB-2006 00:57	1.0				24	

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Stds used: 1=S1732 2=S1733 3=S1734 4=S1735 5=S1736 6=S1737 7=S1731 8=S2118 9=S2119 10=S2120 11=S2121 12=S2122 13=S2117 14=S2694 15=S2695 16=S2696 17=S2697 18=S2698
19=03SS15 20=03SS16 21=S2662 22=S2577 23=S2708 24=S2647

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176085452 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 28-FEB-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	059a001	X	primer			28-FEB-2006 08:12	1.0							
002	059a002	X	primer			28-FEB-2006 11:01	1.0							
003	059a003	X	ib			28-FEB-2006 11:28	1.0							
004	059a004	CCV	S2662.dsl_50			28-FEB-2006 11:56	1.0							
005	059a005	CCV	mo_500			28-FEB-2006 12:23	1.0						1	
006	059a006	X	ccv			28-FEB-2006 14:08	1.0						1	
007	059a007	CCV	dsl_500			28-FEB-2006 16:04	1.0			3			2	
008	059a008	CCV	mo_500			28-FEB-2006 18:04	1.0	6		3			1	
009	059a009	X	ib			28-FEB-2006 22:27	1.0							
010	059a010	X	c 10-16			28-FEB-2006 22:54	20.0							
011	059a011	X	c 12-60			28-FEB-2006 23:21	1.0							
012	059a012	X	ib			01-MAR-2006 07:15	1.0							
013	059a013	ICAL	dsl_50			01-MAR-2006 07:43	1.0						3	
014	059a014	ICAL	dsl_100			01-MAR-2006 08:10	1.0						4	
015	059a015	ICAL	dsl_250			01-MAR-2006 08:37	1.0						5	142
016	059a016	ICAL	dsl_500			01-MAR-2006 09:04	1.0						6	
017	059a017	ICAL	dsl_1000			01-MAR-2006 09:32	1.0						7	
018	059a018	ICAL	dsl_2500			01-MAR-2006 10:00	1.0						8	
019	059a019	ICAL	dsl_5000			01-MAR-2006 10:27	1.0						9	
020	059a020	X	ib			01-MAR-2006 10:54	1.0							
021	059a021	ICV	dsl_500			01-MAR-2006 11:22	1.0			3			10	
022	059a022	X	dsl_500			01-MAR-2006 11:49	1.0						10	
023	059a023	X	ib			01-MAR-2006 12:16	1.0							
024	059a024	ICAL	mo_50			01-MAR-2006 12:44	1.0						11	
025	059a025	ICAL	mo_250			01-MAR-2006 13:11	1.0						12	
026	059a026	ICAL	mo_500			01-MAR-2006 13:38	1.0						13	
027	059a027	ICAL	mo_1000			01-MAR-2006 14:06	1.0						14	
028	059a028	ICAL	mo_2500			01-MAR-2006 14:33	1.0						15	
029	059a029	ICAL	mo_5000			01-MAR-2006 15:01	1.0						16	
030	059a030	X	ib			01-MAR-2006 15:28	1.0							

Stds used: 1=S2741 2=S2662 3=S1732 4=S1733 5=S1734 6=S1735 7=S1736 8=S1737 9=S1731 10=S2708 11=S2118 12=S2119 13=S2120 14=S2121 15=S2122 16=S2117 17=S2694 18=S2695 19=S2696 20=S2697 21=S2698

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176085452 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 28-FEB-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
031	059a031	ICAL	hex_5			01-MAR-2006 15:55	1.0					17	
032	059a032	ICAL	hex_10			01-MAR-2006 16:23	1.0					18	
033	059a033	ICAL	hex_25			01-MAR-2006 16:50	1.0					19	
034	059a034	ICAL	hex_50			01-MAR-2006 17:17	1.0					20	
035	059a035	ICAL	hex_75			01-MAR-2006 17:44	1.0					21	
036	059a036	X	ib			01-MAR-2006 18:11	1.0						

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Stds used: 1=S2741 2=S2662 3=S1732 4=S1733 5=S1734 6=S1735 7=S1736 8=S1737 9=S1731 10=S2708 11=S2118 12=S2119 13=S2120 14=S2121 15=S2122 16=S2117 17=S2694 18=S2695 19=S2696 20=S2697 21=S2698

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176093018 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 05-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	064a001	X	primer			05-MAR-2006 14:18	1.0					
002	064a002	X	ib			05-MAR-2006 14:45	1.0					
003	064a003	CCV	dsl_500			05-MAR-2006 15:13	1.0	1.0		3	1	
004	064a004	CCV	mo_500			05-MAR-2006 15:40	1.0	1.0	5	3	2	
005	064a005	CCV	bunk_1250			05-MAR-2006 16:07	1.0	1.0		3	3	
006	064a006	CCV	mo_500			05-MAR-2006 17:21	1.0	1.0	4	3	4	
007	064a007	ICAL	mo_50			05-MAR-2006 18:11	1.0	1.0			5	
008	064a008	ICAL	mo_250			05-MAR-2006 18:38	1.0	1.0			6	
009	064a009	ICAL	mo_500			05-MAR-2006 19:05	1.0	1.0			7	
010	064a010	ICAL	mo_1000			05-MAR-2006 19:32	1.0	1.0			8	
011	064a011	ICAL	mo_2500			05-MAR-2006 20:00	1.0	1.0			9	
012	064a012	ICAL	mo_5000			05-MAR-2006 20:27	1.0	1.0			10	
013	064a013	X	ib			05-MAR-2006 20:54	1.0					
014	064a014	X	ib			05-MAR-2006 21:21	1.0					
015	064a015	CCV	dsl_1000			05-MAR-2006 21:48	1.0				11	144
016	064a016	CCV	mo_500			05-MAR-2006 22:16	1.0				4	
017	064a017	CCV	bunk_1250			05-MAR-2006 22:43	1.0				3	
018	064a018	X	xccv			05-MAR-2006 23:10	1.0				11	
019	064a019	BLANK	QC329822 S	110900	Water	05-MAR-2006 23:38	1.0					
020	064a020	BLANK	QC329951 S	110935	Soil	06-MAR-2006 00:05	1.0					
021	064a021	BLANK	QC330003 S	110946	Soil	06-MAR-2006 00:32	1.0					
022	064a022	LCS	QC329823 S	110900	Water	06-MAR-2006 00:59	1.0					
023	064a023	LCS	QC329952 S	110935	Soil	06-MAR-2006 01:27	1.0					
024	064a024	LCS	QC330004 S	110946	Soil	06-MAR-2006 01:55	1.0					
025	064a025	MS	QC329824	110900	Water	06-MAR-2006 02:22	1.0					
026	064a026	MSD	QC329825	110900	Water	06-MAR-2006 02:50	1.0					
027	064a027	MS	QC330005 S	110946	Soil	06-MAR-2006 03:17	2.0					
028	064a028	MSD	QC330006 S	110946	Soil	06-MAR-2006 03:44	2.0					
029	064a029	X	ib			06-MAR-2006 04:11	1.0					
030	064a030	CCV	dsl_250			06-MAR-2006 04:39	1.0				12	
031	064a031	CCV	mo_500			06-MAR-2006 05:06	1.0				4	

Stds used: 1=S2662 2=S2741 3=S2401 4=S2843 5=S2118 6=S2119 7=S2120 8=S2121 9=S2122 10=S2117 11=S2647 12=S2755

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176093018 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 05-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	064a032	CCV	bunk_1250			06-MAR-2006 05:33	1.0				3	
033	064a033	X	xccv			06-MAR-2006 06:00	1.0				12	
034	064a034	SAMPLE	185049-005	110845	Water	06-MAR-2006 06:28	1.0					
035	064a035	SAMPLE	185057-001	110845	Water	06-MAR-2006 06:55	1.0					
036	064a036	SAMPLE	185021-004	110845	Water	06-MAR-2006 07:33	1.0					
037	064a037	SAMPLE	185096-003	110851	Water	06-MAR-2006 08:01	1.0					
038	064a038	?SAMPLE	185095-003	110851		06-MAR-2006 08:28	1.0					
039	064a039	MSS	185082-015 S	110946	Soil	06-MAR-2006 08:56	2.0	0.1008	5	3		
040	064a040	?MS	QC329951	110935		06-MAR-2006 09:23	2.0					
041	064a041	?MSD	QC329952	110935		06-MAR-2006 09:50	2.0					
042	064a042	MS	QC329764	110886	Soil	06-MAR-2006 10:18	5.0					
043	064a043	?MSD	QC329764	110886		06-MAR-2006 10:45	5.0					
044	064a044	X	ib			06-MAR-2006 11:12	1.0					
045	064a045	X	ib			06-MAR-2006 11:40	1.0					
046	064a046	CCV	dsl_500			06-MAR-2006 12:07	1.0				2	145
047	064a047	CCV	mo_500			06-MAR-2006 12:35	1.0				4	
048	064a048	CCV	bunk_1250			06-MAR-2006 13:02	1.0				3	
049	064a049	X	xccv			06-MAR-2006 13:29	1.0				2	

Stds used: 1=S2662 2=S2741 3=S2401 4=S2843 5=S2118 6=S2119 7=S2120 8=S2121 9=S2122 10=S2117 11=S2647 12=S2755

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176098515 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 09-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	068a001	X	ib			09-MAR-2006 09:55	1.0					
002	068a002	?SAMPLE	185382-001			09-MAR-2006 10:22	10.0					
003	068a003	?SAMPLE	185382-002			09-MAR-2006 10:49	10.0					
004	068a004	?SAMPLE	185382-003			09-MAR-2006 11:17	10.0					
005	068a005	?SAMPLE	185382-004			09-MAR-2006 11:44	10.0					
006	068a006	?SAMPLE	185382-005			09-MAR-2006 12:12	10.0					
007	068a007	X	ib			09-MAR-2006 12:39	1.0					
008	068a008	X	mb fingerpri			09-MAR-2006 13:06	1.0					
009	068a009	CCV	jet_250			09-MAR-2006 13:34	1.0				1	
010	068a010	X	ib			09-MAR-2006 16:37	1.0					
011	068a011	CCV	dsl_500			09-MAR-2006 17:05	1.0	1.0		3	2	
012	068a012	CCV	mo_500			09-MAR-2006 17:32	1.0	1.0	2	3	3	
013	068a013	CCV	bunk_1250			09-MAR-2006 18:23	1.0	1.0		3	4	
014	068a014	X	ib			09-MAR-2006 19:15	1.0					
015	068a015	ICAL	hex_5			09-MAR-2006 19:42	1.0	1.0			5	146
016	068a016	ICAL	hex_10			09-MAR-2006 20:09	1.0	1.0			6	
017	068a017	ICAL	hex_25			09-MAR-2006 20:37	1.0	1.0			7	
018	068a018	ICAL	hex_50			09-MAR-2006 21:04	1.0	1.0			8	
019	068a019	ICAL	hex_75			09-MAR-2006 21:31	1.0	1.0			9	
020	068a020	X	ib			09-MAR-2006 21:59	1.0					
021	068a021	CCV	dsl_1000			09-MAR-2006 22:26	1.0	1.0		3	10	
022	068a022	CCV	mo_500			09-MAR-2006 22:53	1.0	1.0	2	3	3	
023	068a023	X	dsl_1000			09-MAR-2006 23:20	1.0				10	
024	068a024	CCV	bunk_1250			09-MAR-2006 23:48	1.0	1.0		3	4	
025	068a025	SAMPLE	185247-003 S	111034	Water	10-MAR-2006 00:15	1.0	0.005		3		
026	068a026	SAMPLE	185271-008 S	111034	Water	10-MAR-2006 00:42	1.0	0.005		3		
027	068a027	SAMPLE	185334-001 S	111055	Water	10-MAR-2006 01:10	1.0	0.005		3		
028	068a028	SAMPLE	185271-009 S	111034	Water	10-MAR-2006 01:37	1.0	0.005		3		
029	068a029	SAMPLE	185271-010 S	111034	Water	10-MAR-2006 02:04	1.0	0.005		3		
030	068a030	SAMPLE	185350-001 S	111055	Water	10-MAR-2006 02:31	1.0	0.005		3		
031	068a031	SAMPLE	185333-014 S	111062	Soil	10-MAR-2006 02:58	1.0	0.1000		3		

Stds used: 1=S2432 2=S2871 3=S2741 4=S2872 5=S2694 6=S2695 7=S2696 8=S2697 9=S2698 10=S2885 11=S2755 12=S2843

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176098515 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 09-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used >LR
032	068a032	SAMPLE	185247-005 S	111034	Water	10-MAR-2006 03:25	1.0	0.005	2	1	3	17:BUNKC:=50672.4
033	068a033	MS	QC330414 S	111050	Soil	10-MAR-2006 03:52	1.0	0.1009		1	3	3:BUNKC:=7224.34
034	068a034	MSD	QC330415 S	111050	Soil	10-MAR-2006 04:20	1.0	0.1001			3	1:BUNKC:=5003.11
035	068a035	CCV	dsl_250			10-MAR-2006 04:47	1.0	1.0			3	11
036	068a036	CCV	mo_500			10-MAR-2006 05:14	1.0	1.0	2		3	3
037	068a037	X	xccv			10-MAR-2006 05:42	1.0					11
038	068a038	CCV	bunk_1250			10-MAR-2006 06:09	1.0	1.0			3	4
039	068a039	SAMPLE	185333-022 S	111062	Soil	10-MAR-2006 06:36	1.0	0.1006			3	
040	068a040	SAMPLE	185333-023 S	111062	Soil	10-MAR-2006 07:03	1.0	0.1004			3	
041	068a041	SAMPLE	185211-001	111002	Water	10-MAR-2006 07:30	1.0	0.005			3	
042	068a042	SAMPLE	185211-002	111002	Water	10-MAR-2006 07:58	1.0	0.005			3	
043	068a043	SAMPLE	185229-030	111002	Water	10-MAR-2006 08:24	1.0	0.005		1	3	
044	068a044	SAMPLE	185229-031	111002	Water	10-MAR-2006 08:52	1.0	0.005			3	
045	068a045	SAMPLE	185229-033	111002	Water	10-MAR-2006 09:19	1.0	0.005			3	
046	068a046	SAMPLE	185279-001	111034	Water	10-MAR-2006 09:46	1.0	0.005	1		3	1:HXCS=104.~~6~~47 20
047	068a047	SAMPLE	185339-001	111055	Water	10-MAR-2006 10:13	1.0	0.005			3	
048	068a048	SAMPLE	185339-002	111055	Water	10-MAR-2006 10:40	5.0	0.005			3	
049	068a049	CCV	dsl_500			10-MAR-2006 11:08	1.0	1.0			3	2
050	068a050	CCV	mo_500			10-MAR-2006 11:36	1.0	1.0	2		3	12
051	068a051	X	dsl_500			10-MAR-2006 12:03	1.0					2
052	068a052	CCV	bunk_1250			10-MAR-2006 12:30	1.0	1.0			3	4

Stds used: 1=S2432 2=S2871 3=S2741 4=S2872 5=S2694 6=S2695 7=S2696 8=S2697 9=S2698 10=S2885 11=S2755 12=S2843

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116105591 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 14-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	073a001	X	primer			14-MAR-2006 07:51	1.0						
002	073a002	X	ib			14-MAR-2006 08:18	1.0						
003	073a003	CCV	dsl_500			14-MAR-2006 08:46	1.0	1.0			3	1	
004	073a004	CCV	mo_500			14-MAR-2006 09:14	1.0	1.0			3	2	
005	073a005	SAMPLE	185279-001	111034	Water	14-MAR-2006 10:28	2.0	0.005			3		
006	073a006	SAMPLE	185295-005 S	111050	Soil	14-MAR-2006 10:56	1.0	0.0999		1	3		
007	073a007	SAMPLE	185295-010 S	111050	Soil	14-MAR-2006 11:24	1.0	0.09944		1	3		
008	073a008	SAMPLE	185295-001 S	111050	Soil	14-MAR-2006 11:52	1.0	0.1000		1	3		
009	073a009	SAMPLE	185247-005 S	111034	Water	14-MAR-2006 12:20	25.0	0.005			3		
010	073a010	X	ib			14-MAR-2006 12:48	1.0						
011	073a011	LCS	QC331009 S	111193	Soil	14-MAR-2006 13:16	1.0	0.09994			3		
012	073a012	BLANK	QC331008 S	111193	Soil	14-MAR-2006 13:44	1.0	0.1001	7		3		
013	073a013	SAMPLE	185396-013 S	111197	Water	14-MAR-2006 14:12	1.0	0.005			3		
014	073a014	MS	QC331010 S	111193	Soil	14-MAR-2006 14:41	1.0	0.09984			3		
015	073a015	MSD	QC331011 S	111193	Soil	14-MAR-2006 15:09	1.0	0.09988			3		148
016	073a016	X,CCV	dsl_1000			14-MAR-2006 15:37	1.0	1.0			3	3	
017	073a017	CCV	mo_500			14-MAR-2006 16:05	1.0	1.0	1		3	2	
018	073a018	X	dsl_1000			14-MAR-2006 16:39	1.0	1.0			3	3	
019	073a019	X	ib			14-MAR-2006 18:08	1.0						
020	073a020	CCV	dsl_500			14-MAR-2006 18:36	1.0	1.0			3	1	
021	073a021	CCV	mo_500			14-MAR-2006 19:09	1.0	1.0			3	2	
022	073a022	CCV	jp8_250			14-MAR-2006 19:37	1.0	1.0			3	4	
023	073a023	CCV	jp5_250			14-MAR-2006 20:05	1.0	1.0			3	5	
024	073a024	LCS	QC331315 S	111262	Water	14-MAR-2006 20:35	1.0	0.005			3		
025	073a025	BLANK	QC331314 S	111262	Water	14-MAR-2006 21:03	1.0	0.005			3		
026	073a026	MS	QC331316 S	111262	Water	14-MAR-2006 21:31	1.0	0.005			3		
027	073a027	MSD	QC331317 S	111262	Water	14-MAR-2006 21:59	1.0	0.005			3		
028	073a028	SAMPLE	185486-004	111262	Water	14-MAR-2006 22:27	1.0	0.005			3		
029	073a029	SAMPLE	185486-003	111262	Water	14-MAR-2006 22:55	1.0	0.005			3		
030	073a030	SAMPLE	185486-002	111262	Water	14-MAR-2006 23:22	1.0	0.005			3		

Stds used: 1=S2871 2=S2843 3=S2885 4=S2615 5=S2260 6=S2755
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116105591 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 14-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
031	073a031	SAMPLE	185486-001	111262	Water	14-MAR-2006 23:50	1.0	0.005			3		
032	073a032	SAMPLE	184125-010	110421	Water	15-MAR-2006 00:18	1.0	0.005	2		3	sh	
033	073a033	SAMPLE	184125-009	110421	Water	15-MAR-2006 00:46	1.0	0.005	2		3	sh	
034	073a034	X	dsl_1000			15-MAR-2006 01:14	1.0					3	
035	073a035	CCV	mo_500			15-MAR-2006 01:42	1.0	1.0	1		3	2	
036	073a036	CCV	dsl_1000			15-MAR-2006 02:09	1.0	1.0			3	3	
037	073a037	CCV	jp8_250			15-MAR-2006 02:37	1.0	1.0			3	4	
038	073a038	CCV	jp5_250			15-MAR-2006 03:05	1.0	1.0			3	5	
039	073a039	MSS	185406-001 S	111193	Soil	15-MAR-2006 03:32	1.0	0.09988	6		3		
040	073a040	SAMPLE	185406-003 S	111193	Soil	15-MAR-2006 04:00	1.0	0.09966			3		
041	073a041	SAMPLE	185406-004 S	111193	Soil	15-MAR-2006 04:28	1.0	0.1001			3		
042	073a042	MSS	185457-027 S	111262	Water	15-MAR-2006 04:55	1.0	0.005	5		3		
043	073a043	SAMPLE	185295-010	111050	Soil	15-MAR-2006 05:23	1.0	0.09944			3		
044	073a044	SAMPLE	185342-002	111263	Soil	15-MAR-2006 05:50	1.0	0.09988			3		
045	073a045	SAMPLE	185472-001	111263	Soil	15-MAR-2006 06:18	1.0	0.1001			3		149
046	073a046	SAMPLE	185295-005	111050	Soil	15-MAR-2006 06:45	1.0	0.0999			3		
047	073a047	SAMPLE	185295-001	111050	Soil	15-MAR-2006 07:13	1.0	0.1000		1	3		
048	073a048	SAMPLE	185472-003	111263	Soil	15-MAR-2006 07:41	3.0	0.1005			3		
049	073a049	CCV	dsl_500			15-MAR-2006 08:09	1.0	1.0			3	1	
050	073a050	CCV	mo_500			15-MAR-2006 08:37	1.0	1.0			3	2	
051	073a051	X	xccv			15-MAR-2006 09:05	1.0					1	
052	073a052	LCS	QC331538	111315	Soil	15-MAR-2006 10:07	1.0	0.1001			3		
053	073a053	BLANK	QC331537	111315	Soil	15-MAR-2006 10:35	1.0	0.1005	5		3		
054	073a054	SAMPLE	185502-002	111315	Soil	15-MAR-2006 11:03	1.0	0.1009			3		
055	073a055	SAMPLE	185502-001	111315	Soil	15-MAR-2006 11:32	1.0	0.0998			3		
056	073a056	X	ib			15-MAR-2006 12:00	1.0						
057	073a057	CCV	mo_500			15-MAR-2006 12:28	1.0	1.0	2		3	2	
058	073a058	CCV	dsl_1000			15-MAR-2006 12:56	1.0	1.0			3	3	
059	073a059	LCS	QC331538 S	111315	Soil	15-MAR-2006 14:10	1.0	0.1001	3		3		
060	073a060	BLANK	QC331537 S	111315	Soil	15-MAR-2006 14:38	1.0	0.1005	8		3		

Stds used: 1=S2871 2=S2843 3=S2885 4=S2615 5=S2260 6=S2755
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116105591 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 14-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
061	073a061	SAMPLE	185295-010 S	111315	Soil	15-MAR-2006 15:06	1.0	0.09986		3		
062	073a062	SAMPLE	185295-005 S	111315	Soil	15-MAR-2006 15:34	1.0	0.09986		3		
063	073a063	SAMPLE	185295-001 S	111315	Soil	15-MAR-2006 16:02	1.0	0.1003		3	4:BUNKC:=8192.81	
064	073a064	X				15-MAR-2006 16:30	1.0					
065	073a065	MS	QC331539	111315	Soil	15-MAR-2006 16:58	1.0	0.1007	3	3		
066	073a066	MSD	QC331576	111315	Soil	15-MAR-2006 17:26	1.0	0.1002	3	3		
067	073a067	MSS	185492-020	111315	Soil	15-MAR-2006 17:55	1.0	0.1008	10	3		
068	073a068	CCV	mo_500			15-MAR-2006 18:23	1.0	1.0		3	2	
069	073a069	X	dsl_250			15-MAR-2006 18:51	1.0	1.0	5	3	6	
070	073a070	X	xccv			15-MAR-2006 19:19	1.0				2	
071	073a071	CCV	dsl_250			15-MAR-2006 19:48	1.0	1.0	3	3	6	
072	073a072	SAMPLE	185409-001	111222	Water	15-MAR-2006 20:16	3.0	0.005		3		
073	073a073	SAMPLE	185406-017 S	111263	Miscel	15-MAR-2006 20:44	10.0	0.0995		3	3:BUNKC:=5924.83	
074	073a074	SAMPLE	185406-018 S	111263	Miscel	15-MAR-2006 21:12	10.0	0.09994		3		
075	073a075	SAMPLE	185406-019 S	111263	Miscel	15-MAR-2006 21:40	10.0	0.1007		3	2:BUNKC:=7135.08	150
076	073a076	X	ib			15-MAR-2006 22:08	1.0					
077	073a077	CCV	mo_500			15-MAR-2006 22:36	1.0	1.0		3	2	
078	073a078	CCV	dsl_1000			15-MAR-2006 23:04	1.0	1.0		3	3	
079	073a079	X	xccv			15-MAR-2006 23:32	1.0				2	
080	073a080	X	xccv			16-MAR-2006 00:00	1.0				3	

Stds used: 1=S2871 2=S2843 3=S2885 4=S2615 5=S2260 6=S2755
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176105567 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 14-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	073a001	X	Pimer			14-MAR-2006 07:27	1.0					
002	073a002	X	ib			14-MAR-2006 07:54	1.0					
003	073a003	CCV	dsl_500			14-MAR-2006 08:28	1.0	1.0		3	1	
004	073a004	CCV	mo_500			14-MAR-2006 08:55	1.0	1.0	2	3	2	
005	073a005	SAMPLE	185333-013 S	111062	Soil	14-MAR-2006 09:41	1.0	0.0999		3		
006	073a006	CCV	dsl_1000			14-MAR-2006 10:09	1.0	1.0		3	3	
007	073a007	CCV	mo_500			14-MAR-2006 10:37	1.0	1.0	2	3	2	
008	073a008	SAMPLE	185333-016 S	111062	Soil	14-MAR-2006 11:22	3.0	0.1007		3		
009	073a009	X	ib			14-MAR-2006 11:49	1.0					
010	073a010	CCV	dsl_1000			14-MAR-2006 12:23	1.0	1.0		3	3	
011	073a011	CCV	mo_500			14-MAR-2006 12:51	1.0	1.0	2	3	2	
012	073a012	SAMPLE	185423-001 S	111197	Water	14-MAR-2006 14:01	1.0	0.005		3		
013	073a013	SAMPLE	185423-002 S	111197	Water	14-MAR-2006 14:28	1.0	0.005		3		
014	073a014	SAMPLE	185435-001	111193	Soil	14-MAR-2006 14:56	1.0	0.1008		3		
015	073a015	SAMPLE	185327-002 S	111050	Soil	14-MAR-2006 15:23	1.0	0.1002		3		151
016	073a016	SAMPLE	185406-002 S	111193	Soil	14-MAR-2006 15:51	1.0	0.09996		3		
017	073a017	SAMPLE	185327-003 S	111050	Soil	14-MAR-2006 16:18	1.0	0.1007		3		
018	073a018	X	ib			14-MAR-2006 16:46	1.0					
019	073a019	SAMPLE	185472-008 S	111222	Water	14-MAR-2006 17:13	1.0	0.005		3		
020	073a020	SAMPLE	185409-001	111222	Water	14-MAR-2006 17:41	1.0	0.005	1	3		8:BUNKC:=10817.7
021	073a021	SAMPLE	185409-002	111222	Water	14-MAR-2006 18:27	1.0	0.005		3		2:BUNKC:=6187.48
022	073a022	SAMPLE	185409-003	111222	Water	14-MAR-2006 18:54	1.0	0.005		3		
023	073a023	CCV	dsl_250			14-MAR-2006 19:22	1.0	1.0		3	4	
024	073a024	CCV	mo_500			14-MAR-2006 19:49	1.0	1.0	2	3	2	
025	073a025	X	xccv			14-MAR-2006 20:16	1.0				4	
026	073a026	LCS	QC331319 S	111263	Soil	14-MAR-2006 20:44	1.0	0.1002		3		
027	073a027	BLANK	QC331318 S	111263	Soil	14-MAR-2006 21:11	1.0	0.1003	7	3		
028	073a028	SAMPLE	185406-009 S	111263	Soil	14-MAR-2006 21:38	1.0	0.1002		3		
029	073a029	SAMPLE	185406-008 S	111263	Soil	14-MAR-2006 22:05	1.0	0.0998		3		
030	073a030	SAMPLE	185406-005 S	111263	Soil	14-MAR-2006 22:33	1.0	0.1001		3		

Stds used: 1=S2871 2=S2843 3=S2885 4=S2755 5=S2260 6=S22871
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176105567 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 14-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
031	073a031	SAMPLE	185406-010 S	111263	Soil	14-MAR-2006 23:01	1.0	0.09974			3		
032	073a032	X	ib			14-MAR-2006 23:28	1.0						
033	073a033	MS	QC331320 S	111263	Soil	14-MAR-2006 23:55	1.0	0.09972			3		
034	073a034	MSD	QC331321 S	111263	Soil	15-MAR-2006 00:22	1.0	0.09972			3		
035	073a035	MSS	185406-007 S	111263	Soil	15-MAR-2006 00:50	1.0	0.09998	9		3		
036	073a036	SAMPLE	185406-006 S	111263	Soil	15-MAR-2006 01:17	1.0	0.0997			3		
037	073a037	X	ib			15-MAR-2006 01:44	1.0						
038	073a038	CCV	dsl_1000			15-MAR-2006 02:11	1.0	1.0			3	3	
039	073a039	CCV	mo_500			15-MAR-2006 02:38	1.0	1.0	2		3	2	
040	073a040	X	xccv			15-MAR-2006 03:06	1.0					3	
041	073a041	SAMPLE	185406-011 S	111263	Soil	15-MAR-2006 03:33	1.0	0.09988			3		
042	073a042	SAMPLE	185406-015 S	111263	Soil	15-MAR-2006 04:00	1.0	0.09974			3		
043	073a043	SAMPLE	185406-016 S	111263	Miscel	15-MAR-2006 04:28	1.0	0.1001			3		
044	073a044	SAMPLE	185406-012 S	111263	Soil	15-MAR-2006 04:55	1.0	0.1000			3		
045	073a045	SAMPLE	185406-013 S	111263	Soil	15-MAR-2006 05:22	2.0	0.09994			3		
046	073a046	SAMPLE	185406-014 S	111263	Soil	15-MAR-2006 05:50	2.0	0.1002			3		
047	073a047	X	ib			15-MAR-2006 06:17	1.0						
048	073a048	SAMPLE	185406-017 S	111263	Miscel	15-MAR-2006 06:44	3.0	0.0995	1		3		10:BUNKC:=14931.7
049	073a049	SAMPLE	185406-018 S	111263	Miscel	15-MAR-2006 07:11	3.0	0.09994	1		3		9:BUNKC:=12334.6
050	073a050	SAMPLE	185406-019 S	111263	Miscel	15-MAR-2006 07:38	2.0	0.1007	2	1	3		15:BUNKC:=26753.9
051	073a051	SAMPLE	185461-003 S	111263	Soil	15-MAR-2006 08:05	3.0	0.1002			3		
052	073a052	X	ib			15-MAR-2006 08:33	1.0						
053	073a053	CCV	dsl_250			15-MAR-2006 09:00	1.0	1.0			3	4	
054	073a054	CCV	mo_500			15-MAR-2006 09:27	1.0	1.0	2		3	2	
055	073a055	X	xccv			15-MAR-2006 09:54	1.0					4	
056	073a056	CCV	jp5_250			15-MAR-2006 10:21	1.0	1.0			3	5	
057	073a057	SAMPLE	184125-010	110421	Water	15-MAR-2006 10:49	1.0	0.005	2		3	sh	
058	073a058	SAMPLE	184125-009	110421	Water	15-MAR-2006 11:16	1.0	0.005	2		3	sh	
059	073a059	SAMPLE	185409-006	111222	Water	15-MAR-2006 11:43	1.0	0.005			3		
060	073a060	SAMPLE	185409-005	111222	Water	15-MAR-2006 12:10	1.0	0.005			3		

Stds used: 1=S2871 2=S2843 3=S2885 4=S2755 5=S2260 6=S22871
Flags used: sh=out of sample hold

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SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176105567 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 14-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
061	073a061	SAMPLE	185409-004	111222	Water	15-MAR-2006 12:38	1.0	0.005		3		
062	073a062	SAMPLE	185430-004	111197	Water	15-MAR-2006 13:05	1.0	0.005		3		
063	073a063	SAMPLE	185457-026 S	111262	Water	15-MAR-2006 13:32	1.0	0.005		3		
064	073a064	SAMPLE	185457-025 S	111262	Water	15-MAR-2006 13:59	1.0	0.005		3		
065	073a065	SAMPLE	185457-024 S	111262	Water	15-MAR-2006 14:26	1.0	0.005		3		
066	073a066	SAMPLE	185457-023 S	111262	Water	15-MAR-2006 14:54	1.0	0.005		3		
067	073a067	CCV	dsl_500			15-MAR-2006 15:22	1.0	1.0		3	1	
068	073a068	CCV	mo_500			15-MAR-2006 15:50	1.0	1.0	1	3	2	
069	073a069	X	xccv			15-MAR-2006 16:17	1.0				6	
070	073a070	CCV	jp5_250			15-MAR-2006 16:44	1.0	1.0		3	5	

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Stds used: 1=S2871 2=S2843 3=S2885 4=S2755 5=S2260 6=S22871
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166108456 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 16-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	075b001	X	primer			16-MAR-2006 07:36	1.0						
002	075b002	X	ib			16-MAR-2006 08:04	1.0						
003	075b003	CCV	dsl_500			16-MAR-2006 08:54	1.0	1.0			3	1	
004	075b004	X	mo_500			16-MAR-2006 09:22	1.0	1.0	4		3	2	
005	075b005	CCV	mo_500			16-MAR-2006 10:10	1.0	1.0	2		3	2	
006	075b006	X	QC331316 S	111262	Water	16-MAR-2006 11:52	1.0	0.005		1	3		
007	075b007	X	QC331317 S	111262	Water	16-MAR-2006 12:20	1.0	0.005		1	3		
008	075b008	CCV	dsl_1000			16-MAR-2006 12:48	1.0	1.0			3	3	
009	075b009	X	ccv			16-MAR-2006 13:16	1.0					3	
010	075b010	MS	QC331316 S	111262	Water	16-MAR-2006 13:52	1.0	0.005			3		
011	075b011	MSD	QC331317 S	111262	Water	16-MAR-2006 14:20	1.0	0.005		1	3		
012	075b012	CCV	dsl_500			16-MAR-2006 14:48	1.0	1.0			3	1	
013	075b013	CCV	mo_500			16-MAR-2006 15:17	1.0	1.0			3	2	
014	075b014	SAMPLE	185492-031	111371	Soil	16-MAR-2006 16:20	1.0	0.09952	1		3		
015	075b015	SAMPLE	185492-046	111371	Soil	16-MAR-2006 16:48	1.0	0.1001			3		154
016	075b016	SAMPLE	185492-035	111371	Soil	16-MAR-2006 17:16	1.0	0.1009			3		
017	075b017	SAMPLE	185492-036	111371	Soil	16-MAR-2006 17:45	1.0	0.09929			3		
018	075b018	SAMPLE	185492-038	111371	Soil	16-MAR-2006 18:13	1.0	0.09984			3	1:BUNKC:=5506.39	
019	075b019	X	ib			16-MAR-2006 18:44	1.0						
020	075b020	LCS	QC331664 S	111346	Water	16-MAR-2006 19:12	1.0	0.005			3		
021	075b021	BLANK	QC331663 S	111346	Water	16-MAR-2006 19:41	1.0	0.005	8		3		
022	075b022	MSS	185385-010 S	111346	Water	16-MAR-2006 20:09	1.0	0.005	8		3		
023	075b023	MS	QC331665 S	111346	Water	16-MAR-2006 20:38	1.0	0.005			3		
024	075b024	MSD	QC331666 S	111346	Water	16-MAR-2006 21:06	1.0	0.005			3		
025	075b025	CCV	dsl_1000			16-MAR-2006 21:34	1.0	1.0			3	3	
026	075b026	CCV	mo_500			16-MAR-2006 22:03	1.0	1.0	3		3	2	
027	075b027	X	xccv			16-MAR-2006 22:31	1.0					2	
028	075b028	X	xccv			16-MAR-2006 22:59	1.0					3	
029	075b029	CCV	jet_250			16-MAR-2006 23:26	1.0	1.0	1		3	4	
030	075b030	SAMPLE	185540-006 S	111371	Miscel	16-MAR-2006 23:54	1.0	0.1004	2		3		
031	075b031	SAMPLE	185540-002 S	111371	Miscel	17-MAR-2006 00:22	1.0	0.1002	2		3		

Stds used: 1=S2871 2=S2843 3=S2885 4=S2432

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166108456 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 16-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	075b032	SAMPLE	185540-003 S	111371	Miscel	17-MAR-2006 00:50	3.0	0.09964	2		3		
033	075b033	X	ib			17-MAR-2006 01:18	1.0						
034	075b034	SAMPLE	185540-001 S	111371	Miscel	17-MAR-2006 01:46	5.0	0.1002	2	1	3		
035	075b035	SAMPLE	185540-004 S	111371	Miscel	17-MAR-2006 02:14	1.0	0.09976	2	1	3		
036	075b036	SAMPLE	185540-005 S	111371	Miscel	17-MAR-2006 02:42	1.0	0.09958	2		3		
037	075b037	SAMPLE	185540-007 S	111371	Miscel	17-MAR-2006 03:09	1.0	0.1008	2		3		
038	075b038	X	ib			17-MAR-2006 03:37	1.0						
039	075b039	CCV	dsl_500			17-MAR-2006 04:05	1.0	1.0	7		3	1	
040	075b040	CCV	mo_500			17-MAR-2006 04:32	1.0	1.0	3		3	2	
041	075b041	X	xccv			17-MAR-2006 05:00	1.0					2	
042	075b042	X	xccv			17-MAR-2006 05:27	1.0					1	
043	075b043	CCV	jet_250			17-MAR-2006 05:55	1.0	1.0	1		3	4	

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Stds used: 1=S2871 2=S2843 3=S2885 4=S2432

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116114237 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	079a001	X	primer			20-MAR-2006 07:57	1.0					
002	079a002	X	ib			20-MAR-2006 08:24	1.0					
003	079a003	CCV	mo_500			20-MAR-2006 08:52	1.0	1.0		3	1	
004	079a004	CCV	dsl_500			20-MAR-2006 09:20	1.0	1.0		3	2	
005	079a005	SAMPLE	185607-006	111437	Water	20-MAR-2006 09:54	1.0	0.005		3		
006	079a006	SAMPLE	185608-006	111437	Water	20-MAR-2006 10:22	1.0	0.005		3		
007	079a007	SAMPLE	185611-001	111434	Soil	20-MAR-2006 10:50	1.0	0.09923		3		
008	079a008	X	ib			20-MAR-2006 11:19	1.0					
009	079a009	LCS	QC332045 S	111434	Soil	20-MAR-2006 11:47	1.0	0.1002		3		
010	079a010	BS	QC332063 S	111437	Water	20-MAR-2006 12:15	1.0	0.005		3		
011	079a011	BSD	QC332064 S	111437	Water	20-MAR-2006 12:44	1.0	0.005		3		
012	079a012	BLANK	QC332062 S	111437	Water	20-MAR-2006 13:12	1.0	0.005	7	3		
013	079a013	BLANK	QC332044 S	111434	Soil	20-MAR-2006 13:40	1.0	0.101	7	3		
014	079a014	SAMPLE	185607-003	111429	Soil	20-MAR-2006 14:09	2.0	0.09964		3		
015	079a015	SAMPLE	185607-004	111429	Soil	20-MAR-2006 14:37	2.0	0.1002		3		
016	079a016	X	dsl_1000			20-MAR-2006 15:06	1.0	1.0		3	3	
017	079a017	CCV	mo_500			20-MAR-2006 15:34	1.0	1.0		3	1	
018	079a018	CCV	dsl_1000			20-MAR-2006 16:13	1.0	1.0		3	3	
019	079a019	SAMPLE	185607-005	111429	Soil	20-MAR-2006 16:41	1.0	0.1000		3		
020	079a020	SAMPLE	185607-001	111429	Soil	20-MAR-2006 17:10	1.0	0.0998		3		
021	079a021	SAMPLE	185607-002	111429	Soil	20-MAR-2006 17:39	2.0	0.1005		3		
022	079a022	MSS	185608-001	111429	Soil	20-MAR-2006 18:07	1.0	0.1009	8	3		
023	079a023	SAMPLE	185608-003	111429	Soil	20-MAR-2006 18:36	1.0	0.09921		3		
024	079a024	X	ib			20-MAR-2006 19:05	1.0					
025	079a025	CCV	mo_500			20-MAR-2006 19:33	1.0	1.0		3	1	
026	079a026	CCV	dsl_250			20-MAR-2006 20:02	1.0	1.0	1	3	4	
027	079a027	SAMPLE	185381-014 S	111387	Water	20-MAR-2006 21:03	1.0	0.005		3		
028	079a028	SAMPLE	185414-010 S	111437	Water	20-MAR-2006 21:33	1.0	0.005		3		
029	079a029	SAMPLE	185414-009 S	111437	Water	20-MAR-2006 22:01	1.0	0.005		3		
030	079a030	SAMPLE	185414-008 S	111437	Water	20-MAR-2006 22:30	1.0	0.005		3		
031	079a031	SAMPLE	185414-007 S	111437	Water	20-MAR-2006 22:58	1.0	0.005		3		

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Stds used: 1=S2843 2=S2871 3=S2885 4=S2755 5=S2964 6=S2971 7=S2845

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116114237 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	079a032	SAMPLE	185414-006 S	111437	Water	20-MAR-2006 23:26	1.0	0.005		3		
033	079a033	SAMPLE	185414-005 S	111437	Water	20-MAR-2006 23:54	1.0	0.005		3		
034	079a034	SAMPLE	185414-004 S	111437	Water	21-MAR-2006 00:22	1.0	0.005		3		
035	079a035	SAMPLE	185414-003 S	111437	Water	21-MAR-2006 00:50	1.0	0.005		3		
036	079a036	SAMPLE	185414-002 S	111437	Water	21-MAR-2006 01:18	1.0	0.005		3		
037	079a037	X	ib			21-MAR-2006 01:46	1.0					
038	079a038	CCV	mo_500			21-MAR-2006 02:14	1.0	1.0		3	1	
039	079a039	CCV	dsl_500			21-MAR-2006 02:42	1.0	1.0		3	2	
040	079a040	X	ccv			21-MAR-2006 03:10	1.0				1	
041	079a041	X	ccv			21-MAR-2006 03:38	1.0				2	
042	079a042	SAMPLE	185414-011 S	111437	Water	21-MAR-2006 04:06	1.0	0.005		3		
043	079a043	SAMPLE	185414-013 S	111437	Water	21-MAR-2006 04:33	1.0	0.005		3		
044	079a044	SAMPLE	185414-012 S	111437	Water	21-MAR-2006 05:01	1.0	0.005		3		
045	079a045	SAMPLE	185381-018 S	111387	Water	21-MAR-2006 05:29	1.0	0.005		3		
046	079a046	CCV	mo_500			21-MAR-2006 07:39	1.0	1.0		3	1	
047	079a047	CCV	dsl_1000			21-MAR-2006 08:06	1.0	1.0		3	3	
048	079a048	X	dsl 10			21-MAR-2006 10:04	1.0				5	
049	079a049	X	dsl 10			21-MAR-2006 10:32	1.0				5	
050	079a050	SAMPLE	185613-004 S	111434	Soil	21-MAR-2006 11:36	5.0	0.09944		3		1:BUNKC:=5220.06
051	079a051	SAMPLE	185385-012 S	111346	Water	21-MAR-2006 13:15	1.0	0.005		3		
052	079a052	SAMPLE	185385-013 S	111346	Water	21-MAR-2006 13:43	1.0	0.005		3		
053	079a053	SAMPLE	185385-014 S	111346	Water	21-MAR-2006 14:12	1.0	0.005		3		
054	079a054	SAMPLE	185381-017 S	111387	Water	21-MAR-2006 14:45	1.0	0.005		3		
055	079a055	SAMPLE	185381-019 S	111387	Water	21-MAR-2006 15:14	1.0	0.005		3		
056	079a056	X	mo_500			21-MAR-2006 16:16	1.0	1.0	6	3	6	
057	079a057	CCV	mo_500			21-MAR-2006 16:52	1.0	1.0		3	1	
058	079a058	X	dsl_1000			21-MAR-2006 17:20	1.0				3	
059	079a059	CCV	dsl_1000			21-MAR-2006 17:50	1.0	1.0		3	3	
060	079a060	X	185545-001 S	111427	Soil	21-MAR-2006 18:20	10.0	0.1009		3		
061	079a061	SAMPLE	185563-001	111427	Soil	21-MAR-2006 18:49	200.0	0.2007		3		
062	079a062	X	ib			21-MAR-2006 19:21	1.0					

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Stds used: 1=S2843 2=S2871 3=S2885 4=S2755 5=S2964 6=S2971 7=S2845

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116114237 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
063	079a063	BS	QC332217 S	111477	Water	21-MAR-2006 20:06	1.0	0.005		3		
064	079a064	BSD	QC332218 S	111477	Water	21-MAR-2006 20:34	1.0	0.005		3		
065	079a065	BLANK	QC332216 S	111477	Water	21-MAR-2006 21:03	1.0	0.005	7	3		
066	079a066	SAMPLE	185463-001 S	111477	Water	21-MAR-2006 21:31	1.0	0.005		3		
067	079a067	SAMPLE	185463-002 S	111477	Water	21-MAR-2006 22:00	1.0	0.005		3		
068	079a068	SAMPLE	185456-001 S	111477	Water	21-MAR-2006 22:28	1.0	0.005		3		
069	079a069	SAMPLE	185456-002 S	111477	Water	21-MAR-2006 22:57	1.0	0.005		3		
070	079a070	SAMPLE	185456-003 S	111477	Water	21-MAR-2006 23:25	1.0	0.005		3		
071	079a071	X	ib			21-MAR-2006 23:53	1.0					
072	079a072	CCV	mo_500			22-MAR-2006 00:21	1.0	1.0		3	6	
073	079a073	CCV	dsl_500			22-MAR-2006 00:50	1.0	1.0		3	2	
074	079a074	X	ccv			22-MAR-2006 01:18	1.0				7	
075	079a075	CCV	dsl_1000			22-MAR-2006 01:46	1.0				3	
076	079a076	SAMPLE	185457-021 S	111478	Water	22-MAR-2006 02:14	1.0	0.005		3		
077	079a077	SAMPLE	185457-022 S	111478	Water	22-MAR-2006 02:42	1.0	0.005		3		158
078	079a078	SAMPLE	185457-001 S	111478	Water	22-MAR-2006 03:10	1.0	0.005		3		
079	079a079	SAMPLE	185457-002 S	111478	Water	22-MAR-2006 03:38	1.0	0.005		3		
080	079a080	MSS	185457-003 S	111478	Water	22-MAR-2006 04:06	1.0	0.005	7	3		
081	079a081	SAMPLE	185457-004 S	111478	Water	22-MAR-2006 04:34	1.0	0.005		3		
082	079a082	SAMPLE	185457-005 S	111478	Water	22-MAR-2006 05:02	1.0	0.005		3		
083	079a083	SAMPLE	185457-006 S	111478	Water	22-MAR-2006 05:30	1.0	0.005		3		
084	079a084	SAMPLE	185457-007 S	111478	Water	22-MAR-2006 05:58	1.0	0.005		3		
085	079a085	SAMPLE	185457-008 S	111478	Water	22-MAR-2006 06:26	1.0	0.005		3		
086	079a086	CCV	mo_500			22-MAR-2006 06:54	1.0	1.0		3	6	
087	079a087	CCV	dsl_1000			22-MAR-2006 07:22	1.0	1.0		3	3	
088	079a088	X	ccv			22-MAR-2006 07:49	1.0				7	
089	079a089	X	ccv			22-MAR-2006 08:18	1.0				3	
090	079a090	SAMPLE	185381-020 S	111387	Water	22-MAR-2006 09:06	1.0	0.005		3		
091	079a091	SAMPLE	185385-015 S	111346	Water	22-MAR-2006 09:34	1.0	0.005		3		
092	079a092	SAMPLE	185385-016 S	111346	Water	22-MAR-2006 10:03	1.0	0.005		3		
093	079a093	X	185385-017 S	111346	Water	22-MAR-2006 10:31	1.0					

Stds used: 1=S2843 2=S2871 3=S2885 4=S2755 5=S2964 6=S2971 7=S2845

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116114237 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
094	079a094	SAMPLE	185385-017 S	111346	Water	22-MAR-2006 11:00	1.0	0.005		3		
095	079a095	X	mo_500			22-MAR-2006 11:27	1.0	1.0	6	3	6	
096	079a096	CCV	dsl_250			22-MAR-2006 11:55	1.0	1.0	1	3	4	
097	079a097	X	mo_500			22-MAR-2006 12:24	1.0	1.0	6	3	6	7:JP8:10=138379

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Stds used: 1=S2843 2=S2871 3=S2885 4=S2755 5=S2964 6=S2971 7=S2845

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166114247 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	079b001	X	primer			20-MAR-2006 08:07	1.0						
002	079b002	X	ib			20-MAR-2006 08:34	1.0						
003	079b003	CCV	dsl_500			20-MAR-2006 09:02	1.0	1.0			3	1	
004	079b004	CCV	mo_500			20-MAR-2006 11:26	1.0					2	
005	079b005	CCV	dsl_500			20-MAR-2006 11:53	1.0					1	
006	079b006	X	ib			20-MAR-2006 14:24	1.0						
007	079b007	ICAL	hex_5			20-MAR-2006 14:52	1.0	1.0				3	
008	079b008	ICAL	hex_10			20-MAR-2006 15:20	1.0	1.0				4	
009	079b009	ICAL	hex_25			20-MAR-2006 15:49	1.0	1.0				5	
010	079b010	ICAL	hex_50			20-MAR-2006 16:17	1.0	1.0				6	
011	079b011	ICAL	hex_75			20-MAR-2006 16:45	1.0	1.0				7	
012	079b012	CCV	dsl_1000			20-MAR-2006 17:14	1.0	1.0			3	8	
013	079b013	CCV	mo_500			20-MAR-2006 17:42	1.0	1.0			3	2	
014	079b014	SAMPLE	185385-001 S	111346	Water	20-MAR-2006 18:23	1.0	0.005			3		
015	079b015	SAMPLE	185385-002 S	111346	Water	20-MAR-2006 18:52	1.0	0.005			3		160
016	079b016	SAMPLE	185385-003 S	111346	Water	20-MAR-2006 19:20	1.0	0.005			3		
017	079b017	SAMPLE	185385-004 S	111346	Water	20-MAR-2006 19:48	1.0	0.005			3		
018	079b018	SAMPLE	185385-005 S	111346	Water	20-MAR-2006 20:16	1.0	0.005			3		
019	079b019	X	ib			20-MAR-2006 20:45	1.0						
020	079b020	SAMPLE	185385-006 S	111346	Water	20-MAR-2006 21:13	1.0	0.005			3		
021	079b021	SAMPLE	185385-007 S	111346	Water	20-MAR-2006 21:41	1.0	0.005			3		
022	079b022	SAMPLE	185385-008 S	111346	Water	20-MAR-2006 22:09	1.0	0.005			3		
023	079b023	SAMPLE	185385-009 S	111346	Water	20-MAR-2006 22:37	1.0	0.005			3		
024	079b024	SAMPLE	185385-011 S	111346	Water	20-MAR-2006 23:05	1.0	0.005			3		
025	079b025	X	ib			20-MAR-2006 23:33	1.0						
026	079b026	X	ib			21-MAR-2006 00:01	1.0						
027	079b027	CCV	dsl_250			21-MAR-2006 00:29	1.0	1.0			3	9	
028	079b028	CCV	mo_500			21-MAR-2006 00:57	1.0	1.0	3		3	2	
029	079b029	X	ccv			21-MAR-2006 01:25	1.0					2	
030	079b030	X	ccv			21-MAR-2006 01:52	1.0					9	
031	079b031	SAMPLE	185414-001 S	111437	Water	21-MAR-2006 02:20	1.0	0.005			3		

Stds used: 1=S2871 2=S2843 3=S2694 4=S2695 5=S2696 6=S2697 7=S2698 8=S2885 9=S2755

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166114247 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum		Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	079b032	SAMPLE	185525-004	S	111348	Water	21-MAR-2006 02:48	1.0	0.005		3		
033	079b033	SAMPLE	185525-001	S	111348	Water	21-MAR-2006 03:15	1.0	0.005		3		
034	079b034	SAMPLE	185525-005	S	111348	Water	21-MAR-2006 03:43	1.0	0.005		3		
035	079b035	SAMPLE	185525-008	S	111348	Water	21-MAR-2006 04:11	1.0	0.005		3		
036	079b036	SAMPLE	185525-011	S	111348	Water	21-MAR-2006 04:38	1.0	0.005		3		
037	079b037	SAMPLE	185525-007	S	111348	Water	21-MAR-2006 05:06	1.0	0.005		3		
038	079b038	SAMPLE	185525-010	S	111348	Water	21-MAR-2006 05:34	1.0	0.005		3		
039	079b039	SAMPLE	185525-012	S	111348	Water	21-MAR-2006 06:02	1.0	0.005		3		
040	079b040	X	ib				21-MAR-2006 06:30	1.0					
041	079b041	CCV	dsl_1000				21-MAR-2006 06:57	1.0	1.0	7	3	8	
042	079b042	CCV	mo_500				21-MAR-2006 07:25	1.0	1.0	4	3	2	
043	079b043	X	ccv				21-MAR-2006 07:53	1.0				2	
044	079b044	X	ccv				21-MAR-2006 08:20	1.0				8	

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Stds used: 1=S2871 2=S2843 3=S2694 4=S2695 5=S2696 6=S2697 7=S2698 8=S2885 9=S2755

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176114438 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	079a001	X	Pimer			20-MAR-2006 11:18	1.0					
002	079a002	X	ib			20-MAR-2006 11:46	1.0					
003	079a003	CCV	dsl_500			20-MAR-2006 12:13	1.0	1.0		3	1	
004	079a004	CCV	mo_500			20-MAR-2006 12:40	1.0	1.0	2	3	2	
005	079a005	SAMPLE	185519-013 S	111429	Soil	20-MAR-2006 13:11	1.0	0.1001		3		
006	079a006	SAMPLE	185607-005	111429	Soil	20-MAR-2006 13:39	1.0	0.1000	1	3		
007	079a007	SAMPLE	185519-015 S	111429	Soil	20-MAR-2006 14:06	2.0	0.09978		3		
008	079a008	SAMPLE	185519-016 S	111429	Soil	20-MAR-2006 14:34	1.0	0.1003		3		
009	079a009	SAMPLE	185519-014 S	111429	Soil	20-MAR-2006 15:02	3.0	0.09962		3		
010	079a010	SAMPLE	185607-005	111429	Soil	20-MAR-2006 15:30	1.0	0.1000	1	3		
011	079a011	MSS	185608-001	111429	Soil	20-MAR-2006 15:57	1.0	0.1009	9	3		
012	079a012	SAMPLE	185608-003	111429	Soil	20-MAR-2006 16:25	1.0	0.09921	1	3		
013	079a013	X	ib			20-MAR-2006 16:53	1.0					
014	079a014	CCV	dsl_1000			20-MAR-2006 17:20	1.0	1.0		3	3	
015	079a015	CCV	mo_500			20-MAR-2006 17:48	1.0	1.0	2	3	2	162
016	079a016	CCV	jet_250			20-MAR-2006 18:26	1.0	1.0		3	4	
017	079a017	LCS	QC332017 S	111427	Soil	20-MAR-2006 18:55	1.0	0.09913		3		
018	079a018	MSS	185408-002 S	111348	Water	20-MAR-2006 19:22	1.0	0.005	6	3		
019	079a019	MSS	185408-008 S	111348	Water	20-MAR-2006 19:50	1.0	0.005	6	3		
020	079a020	MSS	185408-010 S	111348	Water	20-MAR-2006 20:17	1.0	0.005	6	3		
021	079a021	MSS	185525-002 S	111348	Water	20-MAR-2006 20:45	1.0	0.005	6	3		
022	079a022	X	ib			20-MAR-2006 21:12	1.0					
023	079a023	SAMPLE	185566-001 S	111437	Water	20-MAR-2006 21:40	1.0	0.005		3		
024	079a024	SAMPLE	185540-008 S	111427	Miscel	20-MAR-2006 22:07	1.0	0.1003		3		
025	079a025	SAMPLE	185613-004 S	111434	Soil	20-MAR-2006 22:35	1.0	0.09944	1	3	14:BUNKC:=20467.3	
026	079a026	X	ib			20-MAR-2006 23:02	1.0					
027	079a027	SAMPLE	185547-004	111427	Soil	20-MAR-2006 23:30	10.0	0.1003		3		
028	079a028	SAMPLE	185547-003	111427	Soil	20-MAR-2006 23:57	20.0	0.1000		3		
029	079a029	X	ib			21-MAR-2006 00:24	1.0					
030	079a030	CCV	dsl_250			21-MAR-2006 00:52	1.0	1.0		3	5	
031	079a031	CCV	mo_500			21-MAR-2006 01:19	1.0	1.0	2	3	2	

Stds used: 1=S2871 2=S2843 3=S2885 4=S2432 5=S2755 6=S2971

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176114438 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	079a032	X	ccv			21-MAR-2006 01:46	1.0					5	
033	079a033	CCV	jet_250			21-MAR-2006 02:13	1.0	1.0			3	4	
034	079a034	MSS	185524-006	111427	Soil	21-MAR-2006 02:41	1.0	0.1001	8		3		
035	079a035	SAMPLE	185592-003	111429	Soil	21-MAR-2006 03:08	1.0	0.1009			3		
036	079a036	SAMPLE	185592-004	111429	Soil	21-MAR-2006 03:36	1.0	0.1003			3		
037	079a037	SAMPLE	185592-001	111429	Soil	21-MAR-2006 04:03	50.0	0.1006			3		2:BUNKC:=5647.70
038	079a038	X	ib			21-MAR-2006 04:30	1.0						
039	079a039	SAMPLE	184983-002 S	110760	Miscel	21-MAR-2006 04:58	10.0	0.1983			3		2:BUNKC:=6480.44
040	079a040	SAMPLE	185545-002 S	111427	Soil	21-MAR-2006 05:25	1.0	0.1001			3		
041	079a041	SAMPLE	185545-003 S	111427	Soil	21-MAR-2006 05:52	1.0	0.1001	1	1	3		
042	079a042	SAMPLE	185545-001 S	111427	Soil	21-MAR-2006 06:20	1.0	0.1009	3	1	3		20:BUNKC:=30841.3
043	079a043	X	ib			21-MAR-2006 06:47	1.0						
044	079a044	SAMPLE	185545-004 S	111427	Soil	21-MAR-2006 07:14	1.0	0.09962			3		
045	079a045	SAMPLE	185563-001	111427	Soil	21-MAR-2006 07:41	50.0	0.2007	2		3		7:BUNKC:=10565.7
046	079a046	X	ib			21-MAR-2006 08:08	1.0						
047	079a047	CCV	dsl_500			21-MAR-2006 08:36	1.0	1.0			3	1	
048	079a048	X	mo_500			21-MAR-2006 09:03	1.0	1.0			3	2	
049	079a049	X	ccv			21-MAR-2006 09:30	1.0					1	
050	079a050	CCV	jet_250			21-MAR-2006 09:57	1.0	1.0			3	4	
051	079a051	CCV	mo_500			21-MAR-2006 10:25	1.0	1.0	2		3	2	
052	079a052	SAMPLE	185631-014 S	111434	Soil	21-MAR-2006 11:49	1.0	0.1003			3		
053	079a053	SAMPLE	185631-015 S	111434	Soil	21-MAR-2006 12:17	1.0	0.1002	1		3		8:JP8:10=25821.0
054	079a054	SAMPLE	185631-001 S	111434	Soil	21-MAR-2006 12:44	1.0	0.1000			3		
055	079a055	SAMPLE	185631-007 S	111434	Soil	21-MAR-2006 13:12	1.0	0.0996			3		
056	079a056	SAMPLE	185385-015 S	111346	Water	21-MAR-2006 13:39	1.0	0.005			3		
057	079a057	SAMPLE	185385-017 S	111346	Water	21-MAR-2006 14:07	1.0	0.005			3		
058	079a058	SAMPLE	185385-016 S	111346	Water	21-MAR-2006 14:35	1.0	0.005			3		
059	079a059	SAMPLE	185381-020 S	111387	Water	21-MAR-2006 15:02	1.0	0.005			3		
060	079a060	SAMPLE	185631-010 S	111434	Soil	21-MAR-2006 15:30	1.0	0.09921			3		1:JP8:10=3738.52
061	079a061	X	dsl_1000			21-MAR-2006 16:17	1.0	1.0			3	3	
062	079a062	CCV	mo_500			21-MAR-2006 16:44	1.0	1.0			3	6	

Stds used: 1=S2871 2=S2843 3=S2885 4=S2432 5=S2755 6=S2971

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176114438 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
063	079a063	MSS	185520-001 S	111434	Soil	21-MAR-2006 17:22	1.0	0.0998	6	3		
064	079a064	MS	QC332046 S	111434	Soil	21-MAR-2006 17:50	1.0	0.0997		3		
065	079a065	MSD	QC332047 S	111434	Soil	21-MAR-2006 18:18	1.0	0.09976		3		
066	079a066	SAMPLE	185600-005	111434	Soil	21-MAR-2006 18:45	1.0	0.1001		3		
067	079a067	SAMPLE	185600-003	111434	Soil	21-MAR-2006 19:13	1.0	0.1003		3		
068	079a068	SAMPLE	185456-004 S	111477	Water	21-MAR-2006 19:41	1.0	0.005		3		
069	079a069	SAMPLE	185456-005 S	111477	Water	21-MAR-2006 20:09	1.0	0.005		3		
070	079a070	SAMPLE	185456-006 S	111477	Water	21-MAR-2006 20:36	1.0	0.005		3		
071	079a071	SAMPLE	185456-007 S	111477	Water	21-MAR-2006 21:04	1.0	0.005		3		
072	079a072	SAMPLE	185456-008 S	111477	Water	21-MAR-2006 21:32	1.0	0.005		3		
073	079a073	X	ib			21-MAR-2006 21:59	1.0					
074	079a074	CCV	dsl_250			21-MAR-2006 22:27	1.0	1.0		3	5	
075	079a075	CCV	mo_500			21-MAR-2006 22:54	1.0	1.0		3	6	
076	079a076	X	ccv			21-MAR-2006 23:22	1.0				5	
077	079a077	LCS	QC332220 S	111478	Water	21-MAR-2006 23:49	1.0	0.005		3		164
078	079a078	BLANK	QC332219 S	111478	Water	22-MAR-2006 00:16	1.0	0.005		3		
079	079a079	SAMPLE	185456-009 S	111477	Water	22-MAR-2006 00:44	1.0	0.005		3		
080	079a080	SAMPLE	185580-003	111477	Water	22-MAR-2006 01:11	1.0	0.005		3		
081	079a081	SAMPLE	185580-004	111477	Water	22-MAR-2006 01:38	1.0	0.005		3		
082	079a082	SAMPLE	185580-005	111477	Water	22-MAR-2006 02:05	1.0	0.005		3		
083	079a083	SAMPLE	185580-006	111477	Water	22-MAR-2006 02:33	1.0	0.005		3		
084	079a084	SAMPLE	185580-007	111477	Water	22-MAR-2006 03:00	1.0	0.005		3		
085	079a085	SAMPLE	185580-008	111477	Water	22-MAR-2006 03:28	1.0	0.005		3		
086	079a086	SAMPLE	185580-009	111477	Water	22-MAR-2006 03:55	1.0	0.005		3		
087	079a087	X	ib			22-MAR-2006 04:23	1.0					
088	079a088	CCV	dsl_500			22-MAR-2006 04:50	1.0	1.0		3	1	
089	079a089	CCV	mo_500			22-MAR-2006 05:18	1.0	1.0	1	3	6	
090	079a090	X	xccv			22-MAR-2006 05:45	1.0				1	
091	079a091	CCV	jet_250			22-MAR-2006 07:26	1.0	1.0		3	4	
092	079a092	MSS	185457-009 S	111478	Water	22-MAR-2006 07:53	1.0	0.005	6	3		
093	079a093	SAMPLE	185457-010 S	111478	Water	22-MAR-2006 08:40	1.0	0.005		3		

Stds used: 1=S2871 2=S2843 3=S2885 4=S2432 5=S2755 6=S2971

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176114438 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
094	079a094	SAMPLE	185545-004 S	111427	Soil	22-MAR-2006 09:07	1.0	0.09962			3		
095	079a095	SAMPLE	185545-003 S	111427	Soil	22-MAR-2006 09:35	1.0	0.1001		1	3	2:BUNKC:=6790.53	
096	079a096	SAMPLE	185545-001 S	111427	Soil	22-MAR-2006 10:02	10.0	0.1009			3		
097	079a097	SAMPLE	185545-003	111427	Soil	22-MAR-2006 10:31	1.0						
098	079a098	X	ib			22-MAR-2006 11:05	1.0						
099	079a099	SAMPLE	185456-004 S	111477	Water	22-MAR-2006 11:32	1.0	0.005			3		
100	079a100	SAMPLE	185456-005 S	111477	Water	22-MAR-2006 11:59	1.0	0.005			3		
101	079a101	SAMPLE	185600-005	111434	Soil	22-MAR-2006 12:26	1.0	0.1001			3		
102	079a102	X	185381-020 S	111387	Water	22-MAR-2006 12:53	1.0						
103	079a103	CCV	dsl_1000			22-MAR-2006 13:20	1.0	1.0			3	3	
104	079a104	CCV	mo_500			22-MAR-2006 13:47	1.0	1.0	2		3	6	
105	079a105	CCV	jet_250			22-MAR-2006 14:15	1.0	1.0			3	4	
106	079a106	SAMPLE	185456-006 S	111477	Water	22-MAR-2006 14:42	1.0	0.005			3		
107	079a107	SAMPLE	185456-007 S	111477	Water	22-MAR-2006 15:09	1.0	0.005			3		
108	079a108	SAMPLE	185456-008 S	111477	Water	22-MAR-2006 15:37	1.0	0.005			3		165
109	079a109	SAMPLE	185545-003 S	111427	Soil	22-MAR-2006 16:04	1.0	0.1001		1	3	2:BUNKC:=6064.36	
110	079a110	SAMPLE	185600-003	111434	Soil	22-MAR-2006 16:31	1.0	0.1003			3		
111	079a111	CCV	dsl_500			22-MAR-2006 17:04	1.0	1.0			3	1	
112	079a112	CCV	mo_500			22-MAR-2006 17:31	1.0	1.0			3	2	
113	079a113	X	ccv			22-MAR-2006 17:59	1.0					1	
114	079a114	CCV	jet_250			22-MAR-2006 18:26	1.0	1.0			3	4	
115	079a115	BS	QC332370 S	111513	Water	22-MAR-2006 19:32	1.0	0.005	2		3		
116	079a116	BSD	QC332371 S	111513	Water	22-MAR-2006 19:59	1.0	0.005	2		3		
117	079a117	BLANK	QC332369 S	111513	Water	22-MAR-2006 20:27	1.0	0.005	6		3		
118	079a118	SAMPLE	185632-001	111513	Water	22-MAR-2006 20:54	1.0	0.005			3		
119	079a119	SAMPLE	185632-002	111513	Water	22-MAR-2006 21:21	1.0	0.005		1	3		
120	079a120	SAMPLE	185632-003	111513	Water	22-MAR-2006 21:48	1.0	0.005			3		
121	079a121	SAMPLE	185632-004	111513	Water	22-MAR-2006 22:15	1.0	0.005			3		
122	079a122	SAMPLE	185632-005	111513	Water	22-MAR-2006 22:43	1.0	0.005			3		
123	079a123	SAMPLE	185632-006	111513	Water	22-MAR-2006 23:11	1.0	0.005			3		
124	079a124	SAMPLE	185632-007	111513	Water	22-MAR-2006 23:38	1.0	0.005			3		

Stds used: 1=S2871 2=S2843 3=S2885 4=S2432 5=S2755 6=S2971

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176114438 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
125	079a125	X	ib			23-MAR-2006 00:05	1.0						
126	079a126	CCV	dsl_1000			23-MAR-2006 00:32	1.0	1.0	2		3	3	
127	079a127	CCV	mo_500			23-MAR-2006 01:00	1.0	1.0			3	2	
128	079a128	X	ccv			23-MAR-2006 01:27	1.0					3	
129	079a129	CCV	jet_250			23-MAR-2006 01:54	1.0	1.0			3	4	
130	079a130	SAMPLE	185632-008	111513	Water	23-MAR-2006 02:21	1.0	0.005	2		3		14:BUNKC:=13333.9
131	079a131	SAMPLE	185632-001 S	111513	Water	23-MAR-2006 02:49	1.0	0.005			3		
132	079a132	SAMPLE	185632-002 S	111513	Water	23-MAR-2006 03:16	1.0	0.005			3		
133	079a133	SAMPLE	185632-003 S	111513	Water	23-MAR-2006 03:43	1.0	0.005			3		
134	079a134	SAMPLE	185632-004 S	111513	Water	23-MAR-2006 04:11	1.0	0.005			3		
135	079a135	SAMPLE	185632-005 S	111513	Water	23-MAR-2006 04:38	1.0	0.005			3		
136	079a136	SAMPLE	185632-006 S	111513	Water	23-MAR-2006 05:05	1.0	0.005			3		
137	079a137	SAMPLE	185632-007 S	111513	Water	23-MAR-2006 05:32	1.0	0.005			3		
138	079a138	SAMPLE	185632-008 S	111513	Water	23-MAR-2006 06:00	1.0	0.005			3		5:BUNKC:=611097
139	079a139	SAMPLE	185463-005 S	111513	Water	23-MAR-2006 06:27	1.0	0.005			3		
140	079a140	X	ib			23-MAR-2006 06:55	1.0						
141	079a141	CCV	dsl_250			23-MAR-2006 07:22	1.0	1.0			3	5	
142	079a142	CCV	mo_500			23-MAR-2006 07:49	1.0	1.0			3	2	
143	079a143	X	ccv			23-MAR-2006 08:17	1.0					5	
144	079a144	CCV	jet_250			23-MAR-2006 08:44	1.0	1.0			3	4	
145	079a145	SAMPLE	185632-002	111513	Water	23-MAR-2006 10:44	1.0	0.005		1	3		
146	079a146	SAMPLE	185632-008	111513	Water	23-MAR-2006 11:11	5.0	0.005			3		
147	079a147	SAMPLE	185631-013 S	111434	Soil	23-MAR-2006 11:39	20.0	0.09984			3		
148	079a148	CCV	dsl_500			23-MAR-2006 12:17	1.0	1.0			3	1	
149	079a149	CCV	mo_500			23-MAR-2006 12:44	1.0	1.0			3	6	
150	079a150	CCV	jet_250			23-MAR-2006 13:11	1.0	1.0			3	4	

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Stds used: 1=S2871 2=S2843 3=S2885 4=S2432 5=S2755 6=S2971

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166115824 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 21-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	080b001	ICAL	dsl_10			21-MAR-2006 10:24	1.0					1	
002	080b002	X	ib			21-MAR-2006 11:50	1.0						
003	080b003	CCV	dsl_500			21-MAR-2006 12:18	1.0	1.0			3	2	
004	080b004	CCV	mo_500			21-MAR-2006 12:46	1.0	1.0	2		3	3	
005	080b005	X	ib			21-MAR-2006 14:24	1.0						
006	080b006	ICAL	mo_50			21-MAR-2006 14:52	1.0	1.0				4	
007	080b007	ICAL	mo_250			21-MAR-2006 15:20	1.0	1.0				5	
008	080b008	ICAL	mo_500			21-MAR-2006 15:49	1.0	1.0				6	
009	080b009	ICAL	mo_1000			21-MAR-2006 16:17	1.0	1.0				7	
010	080b010	ICAL	mo_2500			21-MAR-2006 16:46	1.0	1.0				8	
011	080b011	ICAL	mo_5000			21-MAR-2006 17:15	1.0	1.0				9	
012	080b012	X	ib			21-MAR-2006 17:52	1.0						
013	080b013	CCV	dsl_1000			21-MAR-2006 18:21	1.0	1.0			3	10	
014	080b014	X	mo_500			21-MAR-2006 18:49	1.0	1.0	3		3	3	
015	080b015	CCV	mo_500			21-MAR-2006 19:27	1.0	1.0	2		3	11	197
016	080b016	SAMPLE	185580-002	111477	Water	21-MAR-2006 21:34	1.0	0.005			3		
017	080b017	SAMPLE	185580-010	111477	Water	21-MAR-2006 22:02	1.0	0.005			3		
018	080b018	SAMPLE	185457-011 S	111478	Water	21-MAR-2006 22:30	1.0	0.005			3		
019	080b019	SAMPLE	185457-012 S	111478	Water	21-MAR-2006 22:58	1.0	0.005			3		
020	080b020	SAMPLE	185457-013 S	111478	Water	21-MAR-2006 23:26	1.0	0.005			3		
021	080b021	SAMPLE	185457-014 S	111478	Water	21-MAR-2006 23:54	1.0	0.005			3		
022	080b022	MSS	185457-016 S	111478	Water	22-MAR-2006 00:22	1.0	0.005	8		3		
023	080b023	SAMPLE	185457-017 S	111478	Water	22-MAR-2006 00:50	1.0	0.005			3		
024	080b024	SAMPLE	185457-019 S	111478	Water	22-MAR-2006 01:18	1.0	0.005			3		
025	080b025	MSS	185457-020 S	111478	Water	22-MAR-2006 01:46	1.0	0.005	8		3		
026	080b026	X	ib			22-MAR-2006 02:14	1.0						
027	080b027	CCV	dsl_250			22-MAR-2006 02:41	1.0	1.0			3	12	
028	080b028	CCV	mo_500			22-MAR-2006 03:09	1.0	1.0	2		3	13	
029	080b029	X	ccv			22-MAR-2006 03:37	1.0					12	
030	080b030	X	ccv			22-MAR-2006 04:05	1.0					13	

Stds used: 1=S2964 2=S2871 3=S2843 4=S2118 5=S2119 6=S2120 7=S2121 8=S2122 9=S2117 10=S2885 11=S2972 12=S2755 13=S2971

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116117499 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	081a001	X	ib			22-MAR-2006 14:19	1.0					
002	081a002	X				22-MAR-2006 14:47	1.0					
003	081a003	X	cm 12-60			22-MAR-2006 15:15	1.0					
004	081a004	X	dsl_1000			22-MAR-2006 15:46	1.0	1.0		3	1	
005	081a005	CCV	mo_500			22-MAR-2006 16:14	1.0	1.0		3	2	
006	081a006	CCV	dsl_1000			22-MAR-2006 16:57	1.0	1.0		3	1	
007	081a007	SAMPLE	185631-009 S	111434	Soil	22-MAR-2006 17:56	1.0	0.09932		3		
008	081a008	SAMPLE	185631-012 S	111434	Soil	22-MAR-2006 18:23	1.0	0.09952		3		
009	081a009	SAMPLE	185631-016 S	111434	Soil	22-MAR-2006 18:51	1.0	0.09927		3		
010	081a010	SAMPLE	185631-015 S	111434	Soil	22-MAR-2006 19:19	10.0	0.1002		3		
011	081a011	MSS	185520-001 S	111434	Soil	22-MAR-2006 19:47	1.0	0.0998	8	3		
012	081a012	MS	QC332046 S	111434	Soil	22-MAR-2006 20:15	1.0	0.0997	1	3		
013	081a013	MSD	QC332047 S	111434	Soil	22-MAR-2006 20:43	1.0	0.09976	1	3		
014	081a014	SAMPLE	185631-014 S	111434	Soil	22-MAR-2006 21:11	1.0	0.1003		3		
015	081a015	SAMPLE	185631-011 S	111434	Soil	22-MAR-2006 21:39	1.0	0.1003		3		
016	081a016	SAMPLE	185631-013 S	111434	Soil	22-MAR-2006 22:07	1.0	0.09984	1	3		9:JP8:10=37605.8
017	081a017	X	ib			22-MAR-2006 22:35	1.0					
018	081a018	CCV	mo_500			22-MAR-2006 23:04	1.0	1.0		3	2	
019	081a019	CCV	dsl_250			22-MAR-2006 23:32	1.0	1.0	1	3	3	
020	081a020	X	ccv			23-MAR-2006 00:00	1.0				2	
021	081a021	X	ccv			23-MAR-2006 00:28	1.0				3	
022	081a022	SAMPLE	185493-001 S	111437	Water	23-MAR-2006 00:56	1.0	0.005		3		
023	081a023	SAMPLE	185493-002 S	111437	Water	23-MAR-2006 01:24	1.0	0.005		3		
024	081a024	SAMPLE	185493-003 S	111437	Water	23-MAR-2006 01:52	1.0	0.005		3		
025	081a025	SAMPLE	185493-004 S	111437	Water	23-MAR-2006 02:20	1.0	0.005		3		
026	081a026	SAMPLE	185631-001 S	111434	Soil	23-MAR-2006 02:48	1.0	0.1000		3		
027	081a027	SAMPLE	185631-007 S	111434	Soil	23-MAR-2006 03:16	1.0	0.0996		3		
028	081a028	SAMPLE	185631-010 S	111434	Soil	23-MAR-2006 03:44	1.0	0.09921		3		3:JP8:10=5020.68
029	081a029	X	ib			23-MAR-2006 04:12	1.0					
030	081a030	SAMPLE	185621-001	111513	Water	23-MAR-2006 04:39	1.0	0.005		3		
031	081a031	SAMPLE	185621-002	111513	Water	23-MAR-2006 05:07	1.0	0.005		3		

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Stds used: 1=S2885 2=S2971 3=S2755 4=S2871 5=S2432

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116117499 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	081a032	SAMPLE	185621-003	111513	Water	23-MAR-2006 05:35	1.0	0.005			3		
033	081a033	CCV	mo_500			23-MAR-2006 06:03	1.0	1.0			3	2	
034	081a034	CCV	dsl_500			23-MAR-2006 06:31	1.0	1.0			3	4	
035	081a035	X	ccv			23-MAR-2006 06:59	1.0					2	
036	081a036	X	ccv			23-MAR-2006 07:27	1.0					4	
037	081a037	SAMPLE	185621-004	111513	Water	23-MAR-2006 07:55	1.0	0.005			3		
038	081a038	SAMPLE	185621-005	111513	Water	23-MAR-2006 08:23	1.0	0.005			3		
039	081a039	SAMPLE	185621-006	111513	Water	23-MAR-2006 08:51	1.0	0.005			3		
040	081a040	SAMPLE	185621-007	111513	Water	23-MAR-2006 09:19	1.0	0.005			3		
041	081a041	SAMPLE	185621-008	111513	Water	23-MAR-2006 09:47	1.0	0.005			3		
042	081a042	CCV	mo_500			23-MAR-2006 10:41	1.0	1.0			3	2	
043	081a043	CCV	dsl_1000			23-MAR-2006 11:22	1.0	1.0			3	1	
044	081a044	CCV	jet_250			23-MAR-2006 11:50	1.0	1.0			3	5	
045	081a045	SAMPLE	185632-002	111513	Water	23-MAR-2006 12:18	1.0	0.005		1	3		
046	081a046	MS	QC332221 S	111478	Water	23-MAR-2006 13:56	1.0	0.005			3		169
047	081a047	MSD	QC332222 S	111478	Water	23-MAR-2006 14:24	1.0	0.005			3		
048	081a048	MS	QC332223 S	111478	Water	23-MAR-2006 14:51	1.0	0.005			3		
049	081a049	MSD	QC332224 S	111478	Water	23-MAR-2006 15:19	1.0	0.005			3		
050	081a050	MS	QC332225 S	111478	Water	23-MAR-2006 15:47	1.0	0.005			3		
051	081a051	MSD	QC332226 S	111478	Water	23-MAR-2006 16:15	1.0	0.005			3		
052	081a052	MS	QC332227 S	111478	Water	23-MAR-2006 16:43	1.0	0.005			3		
053	081a053	MSD	QC332228 S	111478	Water	23-MAR-2006 17:11	1.0	0.005			3		
054	081a054	MS	QC331675 S	111348	Water	23-MAR-2006 17:38	1.0	0.005			3		
055	081a055	MSD	QC331676 S	111348	Water	23-MAR-2006 18:07	1.0	0.005			3		
056	081a056	X	ib			23-MAR-2006 18:35	1.0						
057	081a057	CCV	mo_500			23-MAR-2006 19:02	1.0	1.0			3	2	
058	081a058	CCV	dsl_1000			23-MAR-2006 19:30	1.0	1.0			3	1	
059	081a059	X	ccv			23-MAR-2006 19:58	1.0					2	
060	081a060	X	ccv			23-MAR-2006 20:26	1.0					1	
061	081a061	SAMPLE	185520-002 S	111434	Soil	23-MAR-2006 20:54	1.0	0.1000			3		
062	081a062	SAMPLE	185520-003 S	111434	Soil	23-MAR-2006 21:22	1.0	0.09994			3		

Stds used: 1=S2885 2=S2971 3=S2755 4=S2871 5=S2432

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116117499 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
063	081a063	SAMPLE	185520-004 S	111434	Soil	23-MAR-2006 21:50	1.0	0.09972		3		
064	081a064	SAMPLE	185520-005 S	111434	Soil	23-MAR-2006 22:17	1.0	0.09994		3		
065	081a065	CCV	mo_500			23-MAR-2006 22:46	1.0	1.0		3	2	
066	081a066	CCV	dsl_250			23-MAR-2006 23:14	1.0	1.0	1	3	3	
067	081a067	X	ccv			23-MAR-2006 23:42	1.0				2	
068	081a068	X	ccv			24-MAR-2006 00:10	1.0				3	

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Stds used: 1=S2885 2=S2971 3=S2755 4=S2871 5=S2432

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166117087 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	081b001	X	primer			22-MAR-2006 07:27	1.0					
002	081b002	X	ib			22-MAR-2006 07:55	1.0					
003	081b003	CCV	dsl_500			22-MAR-2006 08:27	1.0	1.0	6	3	1	
004	081b004	CCV	mo_500			22-MAR-2006 08:55	1.0	1.0	2	3	2	
005	081b005	X	ib			22-MAR-2006 12:12	1.0					
006	081b006	ICAL	dsl_10			22-MAR-2006 12:39	1.0	1.0			3	
007	081b007	ICAL	dsl_100			22-MAR-2006 13:07	1.0	1.0			4	
008	081b008	ICAL	dsl_250			22-MAR-2006 13:34	1.0	1.0			5	
009	081b009	ICAL	dsl_500			22-MAR-2006 14:02	1.0	1.0			6	
010	081b010	ICAL	dsl_1000			22-MAR-2006 14:30	1.0	1.0			7	
011	081b011	ICAL	dsl_2500			22-MAR-2006 14:57	1.0	1.0			8	
012	081b012	ICAL	dsl_5000			22-MAR-2006 15:25	1.0	1.0			9	
013	081b013	X	ib			22-MAR-2006 15:53	1.0					
014	081b014	ICV	dsl_500			22-MAR-2006 16:21	1.0	1.0		3	10	
015	081b015	X	ib			22-MAR-2006 16:49	1.0					171
016	081b016	CCV	dsl_500			22-MAR-2006 17:17	1.0	1.0		3	1	
017	081b017	CCV	mo_500			22-MAR-2006 17:45	1.0	1.0	2	3	2	
018	081b018	CCV	ker_250			22-MAR-2006 18:43	1.0	1.0		3	11	
019	081b019	LCS	QC332247 S	111483	Soil	22-MAR-2006 19:18	1.0	0.09921		3		
020	081b020	BLANK	QC332246 S	111483	Soil	22-MAR-2006 19:45	1.0	0.1007	7	3		
021	081b021	MSS	185620-003 S	111483	Soil	22-MAR-2006 20:13	1.0	0.1001	9	3		
022	081b022	MS	QC332248 S	111483	Soil	22-MAR-2006 20:41	1.0	0.1006		3		
023	081b023	MSD	QC332249 S	111483	Soil	22-MAR-2006 21:09	1.0	0.1004		3		
024	081b024	X	ib			22-MAR-2006 21:37	1.0					
025	081b025	SAMPLE	185463-003 S	111513	Water	22-MAR-2006 22:05	1.0	0.005		3		
026	081b026	SAMPLE	185463-004 S	111513	Water	22-MAR-2006 22:33	1.0	0.005		3		
027	081b027	SAMPLE	185639-002	111483	Soil	22-MAR-2006 23:01	1.0	0.1002		3		
028	081b028	SAMPLE	185640-001	111483	Soil	22-MAR-2006 23:29	3.0	0.09974	3	3	19:BUNKC:=35667.6	
029	081b029	SAMPLE	185640-002	111483	Soil	22-MAR-2006 23:57	20.0	0.2001	2	3	12:BUNKC:=30917.1	
030	081b030	X	ib			23-MAR-2006 00:24	1.0					
031	081b031	CCV	dsl_1000			23-MAR-2006 00:52	1.0	1.0		3	12	

Stds used: 1=S2871 2=S2971 3=S2961 4=S2938 5=S2939 6=S2940 7=S2941 8=S2942 9=S2936 10=S2708 11=S2806 12=S2885

SEQUENCE SUMMARY FOR 185457 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166117087 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	081b032	CCV	mo_500			23-MAR-2006 01:20	1.0	1.0	2		3	2	
033	081b033	X	ccv			23-MAR-2006 01:48	1.0					12	
034	081b034	CCV	ker_250			23-MAR-2006 02:16	1.0	1.0			3	11	

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Stds used: 1=S2871 2=S2971 3=S2961 4=S2938 5=S2939 6=S2940 7=S2941 8=S2942 9=S2936 10=S2708 11=S2806 12=S2885

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185457 TEHM Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	MO:2	HXCS	
185457-001	GC11A	03/22/06 03:10	1.0	+	+	+	
185457-002	GC11A	03/22/06 03:38	1.0	+	+	+	
185457-003	GC11A	03/22/06 04:06	1.0	+	+	+	
185457-004	GC11A	03/22/06 04:34	1.0	+	+	+	
185457-005	GC11A	03/22/06 05:02	1.0	+	+	+	
185457-006	GC11A	03/22/06 05:30	1.0	+	+	+	
185457-007	GC11A	03/22/06 05:58	1.0	+	+	+	
185457-008	GC11A	03/22/06 06:26	1.0	+	+	+	
185457-009	GC17A	03/22/06 07:53	1.0	+	+	+	
185457-010	GC17A	03/22/06 08:40	1.0	+	+	+	
185457-011	GC15B	03/21/06 22:30	1.0	+	+	+	
185457-012	GC15B	03/21/06 22:58	1.0	+	+	+	
185457-013	GC15B	03/21/06 23:26	1.0	+	+	+	
185457-014	GC15B	03/21/06 23:54	1.0	+	+	+	
185457-016	GC15B	03/22/06 00:22	1.0	+	+	+	
185457-017	GC15B	03/22/06 00:50	1.0	+	+	+	
185457-019	GC15B	03/22/06 01:18	1.0	+	+	+	
185457-020	GC15B	03/22/06 01:46	1.0	+	+	+	
185457-021	GC11A	03/22/06 02:14	1.0	+	+	+	
185457-022	GC11A	03/22/06 02:42	1.0	+	+	+	
185457-023	GC17A	03/15/06 14:54	1.0	+	+	+	
185457-024	GC17A	03/15/06 14:26	1.0	+	+	+	
185457-025	GC17A	03/15/06 13:59	1.0	+	+	+	

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185457 TEHM Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	MO:2	HXCS	
185457-026	GC17A	03/15/06 13:32	1.0	+	+	+	
185457-027	GC11A	03/15/06 04:55	1.0	+	+	+	
QC331314	GC11A	03/14/06 21:03	1.0	+	+	+	
QC331315	GC11A	03/14/06 20:35	1.0	+		+	
QC331316	GC11A	03/14/06 21:31	1.0				
QC331316	GC15B	03/16/06 13:52	1.0	+		+	
QC331317	GC11A	03/14/06 21:59	1.0				
QC331317	GC15B	03/16/06 14:20	1.0	+		+	
QC332219	GC17A	03/22/06 00:16	1.0	+	+	+	
QC332220	GC17A	03/21/06 23:49	1.0	+		+	
QC332221	GC11A	03/23/06 13:56	1.0	+		+	
QC332222	GC11A	03/23/06 14:24	1.0	+		+	
QC332223	GC11A	03/23/06 14:51	1.0	+		+	
QC332224	GC11A	03/23/06 15:19	1.0	+		+	
QC332225	GC11A	03/23/06 15:47	1.0	+		+	
QC332226	GC11A	03/23/06 16:15	1.0	+		+	
QC332227	GC11A	03/23/06 16:43	1.0	+		+	
QC332228	GC11A	03/23/06 17:11	1.0	+		+	

Curtis & Tompkins Laboratories **Sample Preparation Summary** **14-MAR-2006 14:49**

Batch Number : 111262
Date Extracted: 13-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : N/A
Bgroup : TEH
Units : mL
Clean-up :

Spike #1 ID : S2666C
Spike #2 ID : S2826C
Spike #3 ID :
SOP Version : TEH50LL_rv10

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185457-023			Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	5	.5	0		TEHM		
185457-024			Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	5	.5	0		TEHM		
185457-025			Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	5	.5	0		TEHM		
185457-026			Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	5	.5	0		TEHM		
185457-027			Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	5	.5	0		TEHM		mss
185486-001			Tetra Tech FW, INC	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH		
185486-002			Tetra Tech FW, INC	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH		
185486-003			Tetra Tech FW, INC	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH		
185486-004			Tetra Tech FW, INC	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH		
185492-026			Geomatrix Consultants	Water	500	mL	2.5	0.005000	1	5	.5	0		TEH	3630C	
185492-027			Geomatrix Consultants	Water	500	mL	2.5	0.005000	1	5	.5	0		TEH	3630C	
185492-028			Geomatrix Consultants	Water	500	mL	2.5	0.005000	1	5	.5	0		TEH	3630C	
185492-029			Geomatrix Consultants	Water	450	mL	2.5	0.005556	1	5	.5	0		TEH	3630C	
185492-048			Geomatrix Consultants	Water	500	mL	2.5	0.005000	1	5	.5	0		TEH	3630C	
QC331314	BLANK			Water	500	mL	2.5	0.005000	1		.5	0		TEH	3630C	
QC331315	LCS			Water	500	mL	2.5	0.005000	1		.5	.5		TEH	3630C	
QC331316	MS	of 185457-027		Water	500	mL	2.5	0.005000	1	5	.5	.5		TEH		
QC331317	MSD	of 185457-027		Water	500	mL	2.5	0.005000	1	5	.5	.5		TEH		

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Prep Chemist: Jessie Mee Reviewed By: [illegible] Date: 3/14/06

Relinquished By: [illegible] Received By: MB Date: 3/15/06

Curtis & Tompkins, Ltd

TEH WATER PREP LOG

LIMS Batch No: 111262
LIMS Analysis: TEH/M
Extracted by: JDM
Date Extracted: 13 Mar 06

Extraction Method:
- ☐ mod. EPA 3510 sep. funnel
- ☒ mod. EPA 3520 cont. L/L
- ☐ _____

Cleanup Method (if needed):
- ☒ EPA 3630 Silica Gel
- ☐ Other _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185457-021					Not Included JDM 3/13/06
22					
23 J	500	5	2.5		
24 J					
25 G					
26 G					MSS
27 S					
185486-001 D		6			
02					
03					
04		5		X	
185492-026					
27					
28		NA			
MB QC331314					
LCS 15		5			185457-027T
MS 16					
MSD 17				X	
185492-029 F	450			X	
48 F	500				
	JDM 3/13/06				

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.5 mL of TEH_SURR was added to all samples	S2666C	JDM 3/13/06
0.5 mL of TEH_SP was added to all spikes	S2826C	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	JTBA49034	
☒ Samples were continually extracted about 450 mL of CH_2Cl_2	EM46014	
Extraction Start Time:	1640	
Extraction End Time:	1040	JDM 3/14/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	JDM 3/14/06
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM45168530	
Concentrated to volumes as noted above		

Extraction Chemist 3/13/06 Date

Contined from Page _____
Continued on Page _____

Reviewed by 3/14/06 Date

Curtis & Tompkins, Ltd.

Silica Gel Cleanup

EPA 3630c

Prep Chemist: KMH

Cleanup Date: 3/14/06

Benchbook # **BK 2272**

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Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
185492-026	111262	1.0	1.0	
27				
28				
29				
48				
MB QC3313 14				
LCS 5				

KMH 3/14/06

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ____ g columns	NA	KMH 3/14/06
☑ Extracts were cleaned up using 1.0 g cartridges	KMH 3/14/06 Sp6572	
Extracts were eluted with 4.0 mL CH_2Cl_2	EM46014	
Concentrated to volumes as noted above		

KMH 3/14/06

Extraction Chemist / Date

Continued from page 77

Continued on page ____

3/14/06

Reviewed by / Date

Curtis & Tompkins, Ltd.

Silica Gel Cleanup

EPA 3630c

Prep Chemist: JOM

Cleanup Date: 14 Mar 06

Benchbook # **BK 2272**

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Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
185457-023	111262	1.0	1.0	
24				
25				
26				
27 JOM 3/14/06				MSS
MS Q 33136 16				
MSD 17				
JOM 3/14/06				

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ____ g columns	NA	JOM 3/14/06
☒ Extracts were cleaned up using 1.0 g cartridges	SP6572	
Extracts were eluted with 4.0 mL CH_2Cl_2	EM46014	
Concentrated to volumes as noted above	✓	

Jessie O'Neil 3/14/06

Extraction Chemist / Date

Continued from page ____

Continued on page ____

3/14/06

Reviewed by / Date

Curtis & Tompkins Laboratories Sample Preparation Summary 21-MAR-2006 17:01

Batch Number : 111478
Date Extracted: 20-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : TEHM
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2903C
Spike #2 ID : S2826C
Spike #3 ID :
SOP Version :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185457-001		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185457-002		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185457-003		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	MSS
185457-004		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185457-005		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185457-006		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185457-007		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185457-008		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185457-009		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	MSS
185457-010		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185457-011		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185457-012		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185457-013		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185457-014		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185457-016		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	MSS
185457-017		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185457-019		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185457-020		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	MSS
185457-021		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185457-022		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
QC332219	BLANK		Water	500	mL	2.5	0.005000	1		.5	0		TEHM	3630C	
QC332220	LCS		Water	500	mL	2.5	0.005000	1		.5	.5		TEHM	3630C	
QC332221	MS	of 185457-003	Water	500	mL	2.5	0.005000	1	7	.5	.5		TEHM	3630C	
QC332222	MSD	of 185457-003	Water	500	mL	2.5	0.005000	1	7	.5	.5		TEHM	3630C	
QC332223	MS	of 185457-009	Water	500	mL	2.5	0.005000	1	7	.5	.5		TEHM	3630C	
QC332224	MSD	of 185457-009	Water	500	mL	2.5	0.005000	1	7	.5	.5		TEHM	3630C	
QC332225	MS	of 185457-016	Water	500	mL	2.5	0.005000	1	7	.5	.5		TEHM	3630C	
QC332226	MSD	of 185457-016	Water	500	mL	2.5	0.005000	1	7	.5	.5		TEHM	3630C	
QC332227	MS	of 185457-020	Water	500	mL	2.5	0.005000	1	7	.5	.5		TEHM	3630C	
QC332228	MSD	of 185457-020	Water	500	mL	2.5	0.005000	1	7	.5	.5		TEHM	3630C	

Prep Chemist: Jessie Mee Reviewed By: [signature] Date: 3/21/06

Relinquished By: [signature] Received By: MSB Date: 3/22/06

Curtis & Tompkins, Ltd

TEH WATER PREP LOG

BK2279

LIMS Batch No: 111478
LIMS Analysis: TEHM
Extracted by: JOM
Date Extracted: 20 Mar 06

Extraction Method:
☐ mod. EPA 3510 sep. funnel
☒ mod. EPA 3520 cont. L/L
☐ _____

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Cleanup Method (if needed):
☒ EPA 3630 Silica Gel
☐ Other _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185457-001 L	500	7	2.5	X	
02 M					
03 J					MSS
04 F					
05 K					
06					
07					
08					
09 AH					MSS
10 L					
11					
12					
13					
14 I					
16 AK					MSS
17 L					
19 G					
20 S					MSS
21 G					
22 G					
MB QC332219		NA			
LCS 20					
MS 21		7			57-003K
MSD 22		7			

0.5 mL of TEH_SURR was added to all samples
0.5 mL of TEH_SP was added to all spikes
pH of all samples adjusted to pH ≤ 2 with H_2SO_4
☒ Samples were continually extracted about 450 mL of CH_2Cl_2
Extraction Start Time:
Extraction End Time:
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4
Concentrated to volumes as noted above

/ LIMS # / Time	Date/ Initials
	JOM 3/20/06
1534	
1534	
1510	
1000	SFL 3/21/06
NA	KAH 3/21/06
E 4511853Z	
✓	✓

Extraction Chemist / Date: 3/20/06

Contined from Page —
Continued on Page 23

Reviewed by / Date: 3/21/06

Curtis & Tompkins, Ltd

TEH WATER PREP LOG

BK2279

Page 23

LIMS Batch No: 111478
LIMS Analysis: TEHM
Extracted by: JDM
Date Extracted: 20 Mar 06

Extraction Method:
- ☐ mod. EPA 3510 sep. funnel
- ☒ mod. EPA 3520 cont. L/L
- ☐ _____

Cleanup Method (if needed):
- ☒ EPA 3630 Silica Gel
- ☐ Other _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
MS QC332223	500	JDM 20 Mar 06 7	2.5	X	185457-009 AI
MSD 24	↓	↓	↓	↓	↓ 185457-016 AL
MS 25					↓ 185457-020 T
MSD 26					↓
MS 27					
MSD 28					

JDM 3/21/06

Mfg & Lot# / LIMS # / Time	Date/ Initials
See previous page	
JDM 3/20/06	

_____ mL of TEH_SURR was added to all samples
_____ mL of TEH_SP was added to all spikes
pH of all samples adjusted to pH ≤ 2 with H_2SO_4
☐ Samples were continually extracted about 450 mL of CH_2Cl_2
Extraction Start Time:
Extraction End Time:
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4
Concentrated to volumes as noted above

Jennie Mee 3/20/06
Extraction Chemist Date

Contined from Page 22
Continued on Page —

3/21/06
Reviewed by Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630C**

Prep Chemist: KMH
Cleanup Date: 3/21/06

Benchbook # **BK 2272**
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Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
KMH 3/21/06 1845 5457-001	111478	1.0	1.0	
2				
3				mss
4				
5				
6				
7				
8				
9				mss
10				
11				
12				
13				
14				
16				mss
17				
19				
20				mss
21				
22				
MB QC332219				
LCS 20				
MS 21				of 185457-003
MSD 22				
MS 23				of 185457-009
MSD 24				
MS 25				of 185457-016
MSD 26				
MS 27				of 185457-020
MSD 28				

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ____ g columns	NA	KMH 3/21/06
☒ Extracts were cleaned up using 1.0 g cartridges	KMH 3/21/06 K5p7028	
Extracts were eluted with 4.0 mL CH_2Cl_2	EM460600	
Concentrated to volumes as noted above		

3/21/06
Extraction Chemist / Date

Continued from page ____
Continued on page ____

3/21/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water
As of 04/06/06

Analyte	Units	GC11A	GC13B	GC15B	GC17A
JP-5 C10-C16	ug/L	17	16	7.9	5.4
Jet Fuel A C10-C16	ug/L	14	30	24	33
Diesel C10-C20	ug/L		16	13	19
Diesel C10-C22	ug/L	21	18	19	27
Diesel C10-C28	ug/L	18	11	22	37
Diesel C10-C24	ug/L	21	15	18	33
Diesel C12-C24	ug/L	20	13	20	33
Diesel C12-C32	ug/L	22	14	25	23
Diesel C12-C36	ug/L	13	17		
Diesel C12-C28	ug/L		31		
Diesel C12-C22	ug/L	19	17	20	25
Motor Oil C20-C36	ug/L	40	50	29	53
Motor Oil C28-C36	ug/L	42	55	33	76
Motor Oil C24-C36	ug/L	42	55	33	76
Motor Oil C22-C32	ug/L	36	51	21	50
Motor Oil C22-C36	ug/L	41	52	30	51
Hexacosane	ug/L	4.5	3.4	4.2	3.1

VOLATILE ORGANIC COMPOUNDS

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	LF5GW103	Batch#:	111231
Lab ID:	185457-001	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/13/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	110	80-120
1,2-Dichloroethane-d4	104	76-114
Toluene-d8	96	88-110
Bromofluorobenzene	99	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	LF5GW102	Batch#:	111231
Lab ID:	185457-002	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/13/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	111	80-120
1,2-Dichloroethane-d4	104	76-114
Toluene-d8	96	88-110
Bromofluorobenzene	99	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	1349MW104	Batch#:	111231
Lab ID:	185457-005	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/13/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	111	80-120
1,2-Dichloroethane-d4	104	76-114
Toluene-d8	96	88-110
Bromofluorobenzene	98	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	1349MW103	Batch#:	111231
Lab ID:	185457-006	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/13/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	113	80-120
1,2-Dichloroethane-d4	104	76-114
Toluene-d8	97	88-110
Bromofluorobenzene	97	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	LF5GW101	Batch#:	111272
Lab ID:	185457-007	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/14/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	100	76-114
Toluene-d8	96	88-110
Bromofluorobenzene	100	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	LF5GW100	Batch#:	111231
Lab ID:	185457-008	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/13/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	114	80-120
1,2-Dichloroethane-d4	104	76-114
Toluene-d8	97	88-110
Bromofluorobenzene	97	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	231GW10	Batch#:	111231
Lab ID:	185457-009	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/13/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	113	80-120
1,2-Dichloroethane-d4	106	76-114
Toluene-d8	97	88-110
Bromofluorobenzene	97	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	231GW30	Batch#:	111231
Lab ID:	185457-010	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/13/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	116	80-120
1,2-Dichloroethane-d4	106	76-114
Toluene-d8	97	88-110
Bromofluorobenzene	97	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	231GW22	Batch#:	111270
Lab ID:	185457-011	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/14/06
Diln Fac:	62.50		

Analyte	Result	RL	MDL
Chloromethane	ND	63	
Vinyl Chloride	ND	31	
Bromomethane	ND	63	
Chloroethane	ND	63	
Acetone	ND	630	
1,1-Dichloroethene	ND	31	
Methylene Chloride	ND	250	
Carbon Disulfide	ND	31	
MTBE	ND	31	
trans-1,2-Dichloroethene	ND	31	
Vinyl Acetate	ND	630	
1,1-Dichloroethane	ND	31	
2-Butanone	ND	630	
cis-1,2-Dichloroethene	ND	31	
Chloroform	ND	31	
1,1,1-Trichloroethane	ND	31	
Carbon Tetrachloride	ND	31	
1,2-Dichloroethane	ND	31	
Benzene	4,400	31	7.3
Trichloroethene	ND	31	
1,2-Dichloropropane	ND	31	
Bromodichloromethane	ND	31	
4-Methyl-2-Pentanone	ND	630	
cis-1,3-Dichloropropene	ND	31	
Toluene	60	31	
trans-1,3-Dichloropropene	ND	31	
1,1,2-Trichloroethane	ND	31	
2-Hexanone	ND	630	
Tetrachloroethene	ND	31	
Dibromochloromethane	ND	31	
Chlorobenzene	ND	31	
Ethylbenzene	230	31	
Styrene	ND	31	
Bromoform	ND	63	
1,1,2,2-Tetrachloroethane	ND	31	
Xylene (total)	550	63	

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-120
1,2-Dichloroethane-d4	98	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	102	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DUP0309061A	Batch#:	111270
Lab ID:	185457-012	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/14/06
Diln Fac:	62.50		

Analyte	Result	RL	MDL
Chloromethane	ND	63	
Vinyl Chloride	ND	31	
Bromomethane	ND	63	
Chloroethane	ND	63	
Acetone	ND	630	
1,1-Dichloroethene	ND	31	
Methylene Chloride	ND	250	
Carbon Disulfide	ND	31	
MTBE	ND	31	
trans-1,2-Dichloroethene	ND	31	
Vinyl Acetate	ND	630	
1,1-Dichloroethane	ND	31	
2-Butanone	ND	630	
cis-1,2-Dichloroethene	ND	31	
Chloroform	ND	31	
1,1,1-Trichloroethane	ND	31	
Carbon Tetrachloride	ND	31	
1,2-Dichloroethane	ND	31	
Benzene	4,300	31	7.3
Trichloroethene	ND	31	
1,2-Dichloropropane	ND	31	
Bromodichloromethane	ND	31	
4-Methyl-2-Pentanone	ND	630	
cis-1,3-Dichloropropene	ND	31	
Toluene	49	31	
trans-1,3-Dichloropropene	ND	31	
1,1,2-Trichloroethane	ND	31	
2-Hexanone	ND	630	
Tetrachloroethene	ND	31	
Dibromochloromethane	ND	31	
Chlorobenzene	ND	31	
Ethylbenzene	180	31	
Styrene	ND	31	
Bromoform	ND	63	
1,1,2,2-Tetrachloroethane	ND	31	
Xylene (total)	400	63	

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-120
1,2-Dichloroethane-d4	102	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	103	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	231GW16	Batch#:	111231
Lab ID:	185457-013	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/13/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	117	80-120
1,2-Dichloroethane-d4	107	76-114
Toluene-d8	96	88-110
Bromofluorobenzene	96	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	TB0309061A	Batch#:	111228
Lab ID:	185457-015	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/13/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-120
1,2-Dichloroethane-d4	108	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	104	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	1349MW02	Batch#:	111228
Lab ID:	185457-016	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/13/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-120
1,2-Dichloroethane-d4	107	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	102	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	231PZ02	Batch#:	111228
Lab ID:	185457-017	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/13/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	30	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	3.3	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	3.1	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-120
1,2-Dichloroethane-d4	109	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	98	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DUP0309062A	Units:	ug/L
Lab ID:	185457-019	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06

Analyte	Result	RL	MDL	Diln Fac	Batch#	Analyzed
Chloromethane	ND	1.0		1.000	111228	03/13/06
Vinyl Chloride	4.5	0.5		1.000	111228	03/13/06
Bromomethane	ND	1.0		1.000	111228	03/13/06
Chloroethane	ND	1.0		1.000	111228	03/13/06
Acetone	ND	10		1.000	111228	03/13/06
1,1-Dichloroethene	ND	0.5		1.000	111228	03/13/06
Methylene Chloride	ND	4.0		1.000	111228	03/13/06
Carbon Disulfide	ND	0.5		1.000	111228	03/13/06
MTBE	ND	0.5		1.000	111228	03/13/06
trans-1,2-Dichloroethene	89	0.5		1.000	111228	03/13/06
Vinyl Acetate	ND	10		1.000	111228	03/13/06
1,1-Dichloroethane	ND	0.5		1.000	111228	03/13/06
2-Butanone	ND	10		1.000	111228	03/13/06
cis-1,2-Dichloroethene	160	1.3		2.500	111274	03/14/06
Chloroform	ND	0.5		1.000	111228	03/13/06
1,1,1-Trichloroethane	ND	0.5		1.000	111228	03/13/06
Carbon Tetrachloride	ND	0.5		1.000	111228	03/13/06
1,2-Dichloroethane	ND	0.5		1.000	111228	03/13/06
Benzene	0.4 J	0.5	0.06	1.000	111228	03/13/06
Trichloroethene	ND	0.5		1.000	111228	03/13/06
1,2-Dichloropropane	ND	0.5		1.000	111228	03/13/06
Bromodichloromethane	ND	0.5		1.000	111228	03/13/06
4-Methyl-2-Pentanone	ND	10		1.000	111228	03/13/06
cis-1,3-Dichloropropene	ND	0.5		1.000	111228	03/13/06
Toluene	ND	0.5		1.000	111228	03/13/06
trans-1,3-Dichloropropene	ND	0.5		1.000	111228	03/13/06
1,1,2-Trichloroethane	ND	0.5		1.000	111228	03/13/06
2-Hexanone	ND	10		1.000	111228	03/13/06
Tetrachloroethene	ND	0.5		1.000	111228	03/13/06
Dibromochloromethane	ND	0.5		1.000	111228	03/13/06
Chlorobenzene	ND	0.5		1.000	111228	03/13/06
Ethylbenzene	ND	0.5		1.000	111228	03/13/06
Styrene	ND	0.5		1.000	111228	03/13/06
Bromoform	ND	1.0		1.000	111228	03/13/06
1,1,2,2-Tetrachloroethane	ND	0.5		1.000	111228	03/13/06
Xylene (total)	ND	1.0		1.000	111228	

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	99	80-120	1.000	111228	03/13/06
1,2-Dichloroethane-d4	107	76-114	1.000	111228	03/13/06
Toluene-d8	98	88-110	1.000	111228	03/13/06
Bromofluorobenzene	104	86-115	1.000	111228	03/13/06

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	950GW108	Batch#:	111228
Lab ID:	185457-020	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/13/06
Diln Fac:	2.000		

Analyte	Result	RL	MDL
Chloromethane	ND	2.0	
Vinyl Chloride	3.9	1.0	
Bromomethane	ND	2.0	
Chloroethane	ND	2.0	
Acetone	ND	20	
1,1-Dichloroethene	ND	1.0	
Methylene Chloride	ND	8.0	
Carbon Disulfide	ND	1.0	
MTBE	ND	1.0	
trans-1,2-Dichloroethene	81	1.0	
Vinyl Acetate	ND	20	
1,1-Dichloroethane	ND	1.0	
2-Butanone	ND	20	
cis-1,2-Dichloroethene	150	1.0	
Chloroform	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Carbon Tetrachloride	ND	1.0	
1,2-Dichloroethane	ND	1.0	
Benzene	0.5 J	1.0	0.1
Trichloroethene	ND	1.0	
1,2-Dichloropropane	ND	1.0	
Bromodichloromethane	ND	1.0	
4-Methyl-2-Pentanone	ND	20	
cis-1,3-Dichloropropene	ND	1.0	
Toluene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
2-Hexanone	ND	20	
Tetrachloroethene	ND	1.0	
Dibromochloromethane	ND	1.0	
Chlorobenzene	ND	1.0	
Ethylbenzene	ND	1.0	
Styrene	ND	1.0	
Bromoform	ND	2.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Xylene (total)	ND	2.0	

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	108	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	102	86-115

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331159	Batch#:	111228
Matrix:	Water	Analyzed:	03/13/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-120
1,2-Dichloroethane-d4	105	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	102	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331168	Batch#:	111231
Matrix:	Water	Analyzed:	03/13/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-120
1,2-Dichloroethane-d4	102	76-114
Toluene-d8	95	88-110
Bromofluorobenzene	99	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331347	Batch#:	111270
Matrix:	Water	Analyzed:	03/14/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-120
1,2-Dichloroethane-d4	100	76-114
Toluene-d8	98	88-110
Bromofluorobenzene	100	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331359	Batch#:	111272
Matrix:	Water	Analyzed:	03/14/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	98	76-114
Toluene-d8	96	88-110
Bromofluorobenzene	103	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331365	Batch#:	111274
Matrix:	Water	Analyzed:	03/14/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	102	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	103	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331358	Batch#:	111272
Matrix:	Water	Analyzed:	03/14/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	28.33	113	65-135
Benzene	25.00	23.85	95	65-135
Trichloroethene	25.00	26.19	105	65-135
Toluene	25.00	24.70	99	65-135
Chlorobenzene	25.00	24.39	98	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-120
1,2-Dichloroethane-d4	96	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	104	86-115

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	111228
Units:	ug/L	Analyzed:	03/13/06
Diln Fac:	1.000		

Type: BS Lab ID: QC331157

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	27.31	109	65-135
Benzene	25.00	25.94	104	65-135
Trichloroethene	25.00	28.51	114	65-135
Toluene	25.00	26.60	106	65-135
Chlorobenzene	25.00	27.83	111	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-120
1,2-Dichloroethane-d4	101	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	93	86-115

Type: BSD Lab ID: QC331158

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	25.16	101	65-135	8	35
Benzene	25.00	23.05	92	65-135	12	35
Trichloroethene	25.00	25.53	102	65-135	11	35
Toluene	25.00	24.48	98	65-135	8	35
Chlorobenzene	25.00	25.86	103	65-135	7	35

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-120
1,2-Dichloroethane-d4	100	76-114
Toluene-d8	97	88-110
Bromofluorobenzene	96	86-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	111231
Units:	ug/L	Analyzed:	03/13/06
Diln Fac:	1.000		

Type: BS Lab ID: QC331166

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	29.05	116	65-135
Benzene	25.00	26.52	106	65-135
Trichloroethene	25.00	27.66	111	65-135
Toluene	25.00	27.69	111	65-135
Chlorobenzene	25.00	26.90	108	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-120
1,2-Dichloroethane-d4	101	76-114
Toluene-d8	103	88-110
Bromofluorobenzene	100	86-115

Type: BSD Lab ID: QC331167

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	27.22	109	65-135	7	35
Benzene	25.00	25.15	101	65-135	5	35
Trichloroethene	25.00	26.44	106	65-135	5	35
Toluene	25.00	26.04	104	65-135	6	35
Chlorobenzene	25.00	26.10	104	65-135	3	35

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-120
1,2-Dichloroethane-d4	101	76-114
Toluene-d8	102	88-110
Bromofluorobenzene	100	86-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	111270
Units:	ug/L	Analyzed:	03/14/06
Diln Fac:	1.000		

Type: BS Lab ID: QC331345

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	28.50	114	65-135
Benzene	25.00	25.04	100	65-135
Trichloroethene	25.00	27.05	108	65-135
Toluene	25.00	25.47	102	65-135
Chlorobenzene	25.00	25.74	103	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-120
1,2-Dichloroethane-d4	97	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	96	86-115

Type: BSD Lab ID: QC331346

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	29.24	117	65-135	3	35
Benzene	25.00	25.63	103	65-135	2	35
Trichloroethene	25.00	27.33	109	65-135	1	35
Toluene	25.00	26.39	106	65-135	4	35
Chlorobenzene	25.00	26.20	105	65-135	2	35

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-120
1,2-Dichloroethane-d4	98	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	99	86-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	111274
Units:	ug/L	Analyzed:	03/14/06
Diln Fac:	1.000		

Type: BS Lab ID: QC331363

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	29.02	116	65-135
Benzene	25.00	26.73	107	65-135
Trichloroethene	25.00	28.17	113	65-135
Toluene	25.00	26.88	108	65-135
Chlorobenzene	25.00	27.61	110	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-120
1,2-Dichloroethane-d4	101	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	95	86-115

Type: BSD Lab ID: QC331364

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	24.82	99	65-135	16	35
Benzene	25.00	23.90	96	65-135	11	35
Trichloroethene	25.00	24.75	99	65-135	13	35
Toluene	25.00	23.87	95	65-135	12	35
Chlorobenzene	25.00	25.37	101	65-135	8	35

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-120
1,2-Dichloroethane-d4	98	76-114
Toluene-d8	98	88-110
Bromofluorobenzene	97	86-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	1349MW02	Batch#:	111228
MSS Lab ID:	185457-016	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/13/06
Diln Fac:	1.000		

Type: MS Lab ID: QC331182

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.06158	25.00	27.58	110	65-135
Benzene	<0.06014	25.00	24.07	96	65-135
Trichloroethene	<0.1752	25.00	26.53	106	65-135
Toluene	<0.1181	25.00	25.38	102	65-135
Chlorobenzene	<0.1078	25.00	25.56	102	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-120
1,2-Dichloroethane-d4	107	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	96	86-115

Type: MSD Lab ID: QC331183

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	26.78	107	65-135	3	35
Benzene	25.00	23.35	93	65-135	3	35
Trichloroethene	25.00	25.80	103	65-135	3	35
Toluene	25.00	24.64	99	65-135	3	35
Chlorobenzene	25.00	24.81	99	65-135	3	35

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	108	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	98	86-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	950GW108	Batch#:	111228
MSS Lab ID:	185457-020	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/13/06
Diln Fac:	2.000		

Type: MS Lab ID: QC331184

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	0.4602	50.00	52.52	104	65-135
Benzene	0.4624	50.00	48.46	96	65-135
Trichloroethene	<0.3503	50.00	52.99	106	65-135
Toluene	<0.2362	50.00	51.24	102	65-135
Chlorobenzene	<0.2156	50.00	51.62	103	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-120
1,2-Dichloroethane-d4	106	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	96	86-115

Type: MSD Lab ID: QC331185

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	51.50	102	65-135	2	35
Benzene	50.00	47.10	93	65-135	3	35
Trichloroethene	50.00	50.53	101	65-135	5	35
Toluene	50.00	48.24	96	65-135	6	35
Chlorobenzene	50.00	49.58	99	65-135	4	35

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-120
1,2-Dichloroethane-d4	105	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	98	86-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	231GW10	Batch#:	111231
MSS Lab ID:	185457-009	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/13/06
Diln Fac:	1.000		

Type: MS Lab ID: QC331186

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.1655	25.00	27.66	111	65-135
Benzene	<0.06135	25.00	25.63	103	65-135
Trichloroethene	<0.1670	25.00	25.52	102	65-135
Toluene	<0.09165	25.00	25.98	104	65-135
Chlorobenzene	<0.1570	25.00	25.26	101	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-120
1,2-Dichloroethane-d4	104	76-114
Toluene-d8	104	88-110
Bromofluorobenzene	99	86-115

Type: MSD Lab ID: QC331187

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	29.45	118	65-135	6	35
Benzene	25.00	26.10	104	65-135	2	35
Trichloroethene	25.00	26.27	105	65-135	3	35
Toluene	25.00	26.36	105	65-135	1	35
Chlorobenzene	25.00	25.69	103	65-135	2	35

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-120
1,2-Dichloroethane-d4	106	76-114
Toluene-d8	102	88-110
Bromofluorobenzene	99	86-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	111272
MSS Lab ID:	185489-004	Sampled:	03/10/06
Matrix:	Water	Received:	03/13/06
Units:	ug/L	Analyzed:	03/14/06
Diln Fac:	5.000		

Type: MS Lab ID: QC331424

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	3.790	125.0	115.4	89	65-135
Benzene	<0.3068	125.0	127.0	102	65-135
Trichloroethene	379.5	125.0	514.4 >LR b	108	65-135
Toluene	<0.4582	125.0	128.0	102	65-135
Chlorobenzene	<0.7850	125.0	125.6	100	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-120
1,2-Dichloroethane-d4	105	76-114
Toluene-d8	105	88-110
Bromofluorobenzene	100	86-115

Type: MSD Lab ID: QC331425

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	125.0	113.5	88	65-135	2	35
Benzene	125.0	121.1	97	65-135	5	35
Trichloroethene	125.0	494.1	92	65-135	NC	35
Toluene	125.0	122.6	98	65-135	4	35
Chlorobenzene	125.0	122.2	98	65-135	3	35

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-120
1,2-Dichloroethane-d4	103	76-114
Toluene-d8	103	88-110
Bromofluorobenzene	101	86-115

b= See narrative
NC= Not Calculated
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

8260/624SA w ICAL

Data File: \\Gcmsserver\DD\chem\MSVOA06.i\030906.b\FC911.D

Date : 09-MAR-2006 13:59

Client ID: bfb tune std

Instrument: MSVOA06.i

Sample Info: BFB,S2327

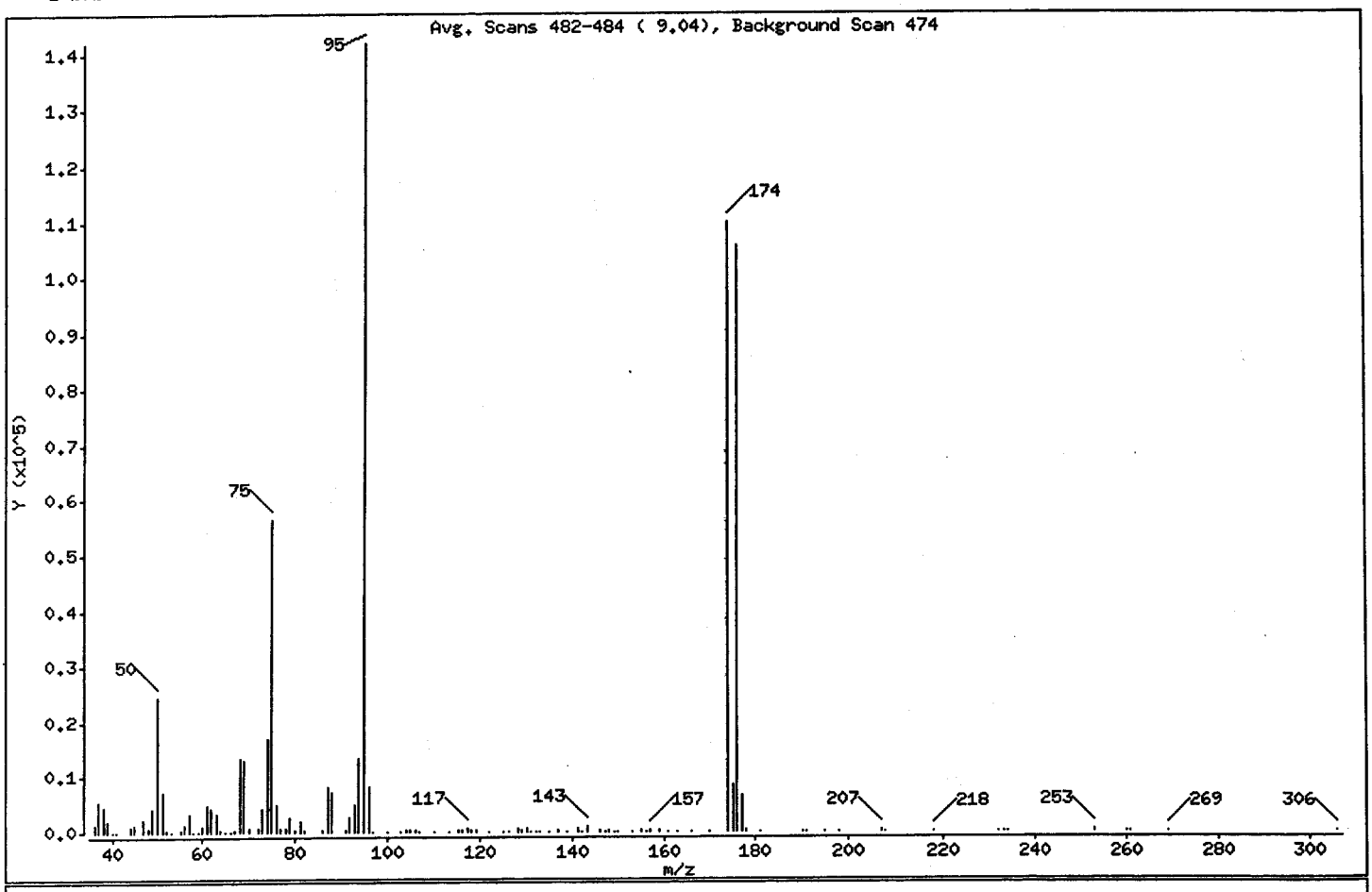
Volume Injected (uL): 1.0

Operator: BO

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.25
75	30.00 - 60.00% of mass 95	39.81
96	5.00 - 9.00% of mass 95	5.74
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	77.30
175	5.00 - 9.00% of mass 174	5.89 (7.62)
176	95.01 - 100.99% of mass 174	74.45 (96.32)
177	5.00 - 9.00% of mass 176	4.70 (6.32)

R 3/10/06

3/13/06

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\031306.b\FCD02.D

Date : 13-MAR-2006 08:31

Client ID: bfb tune std

Instrument: MSVOA06.i

Sample Info: BFB,S2327

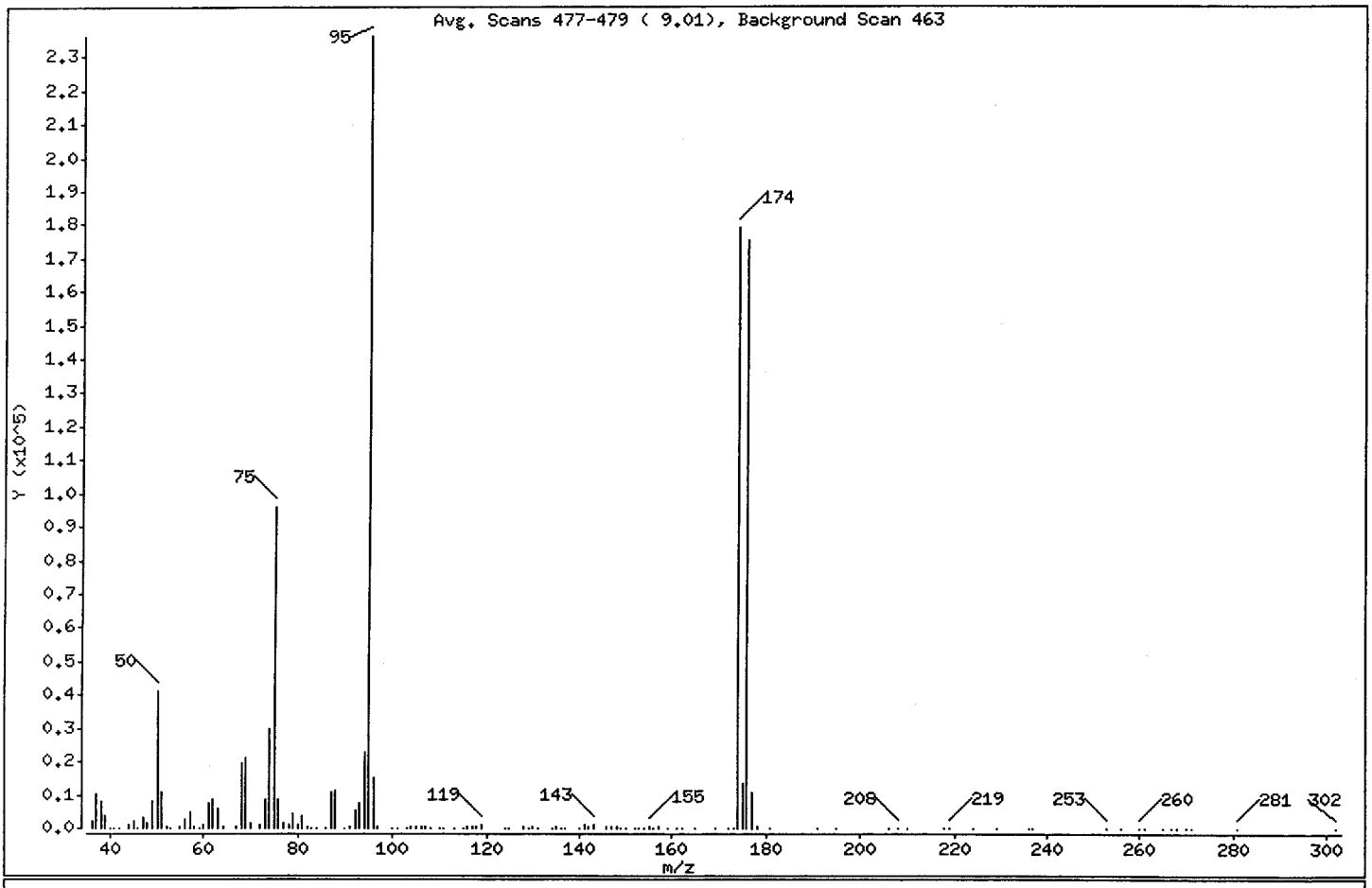
Volume Injected (uL): 1.0

Operator: BO

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.58
75	30.00 - 60.00% of mass 95	40.78
96	5.00 - 9.00% of mass 95	6.52
173	Less than 2.00% of mass 174	0.11 (0.14)
174	50.00 - 99.99% of mass 95	75.80
175	5.00 - 9.00% of mass 174	5.69 (7.51)
176	95.01 - 100.99% of mass 174	74.24 (97.95)
177	5.00 - 9.00% of mass 176	4.56 (6.14)

3/14/06

3/14/06

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\031406.b\FCE05.D

Date : 14-MAR-2006 10:08

Client ID: bfb tune std

Instrument: MSVOA06.i

Sample Info: BFB,S2327

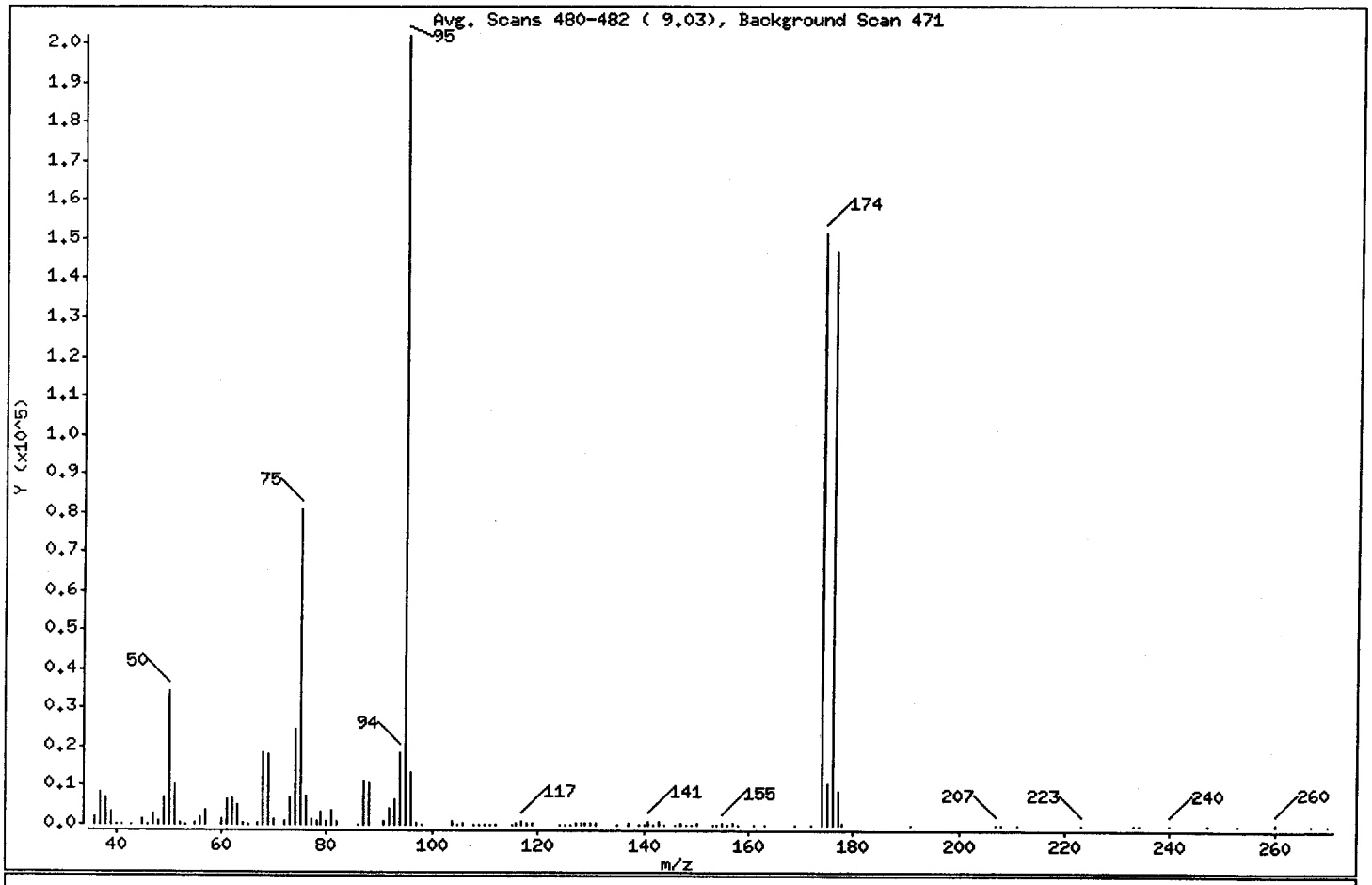
Volume Injected (uL): 1.0

Operator: BO

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.95
75	30.00 - 60.00% of mass 95	39.93
96	5.00 - 9.00% of mass 95	6.58
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	75.04
175	5.00 - 9.00% of mass 174	5.24 (6.98)
176	95.01 - 100.99% of mass 174	72.62 (96.78)
177	5.00 - 9.00% of mass 176	4.40 (6.06)

BO 3/15/06

Data File: \\GCMSSERVER\DD\chem\MSVOA07.i\030806.b\GC805.D

Date : 08-MAR-2006 12:01

Client ID: bfb tune std

Instrument: MSVOA07.i

ICAL

Sample Info: BFB,S2327

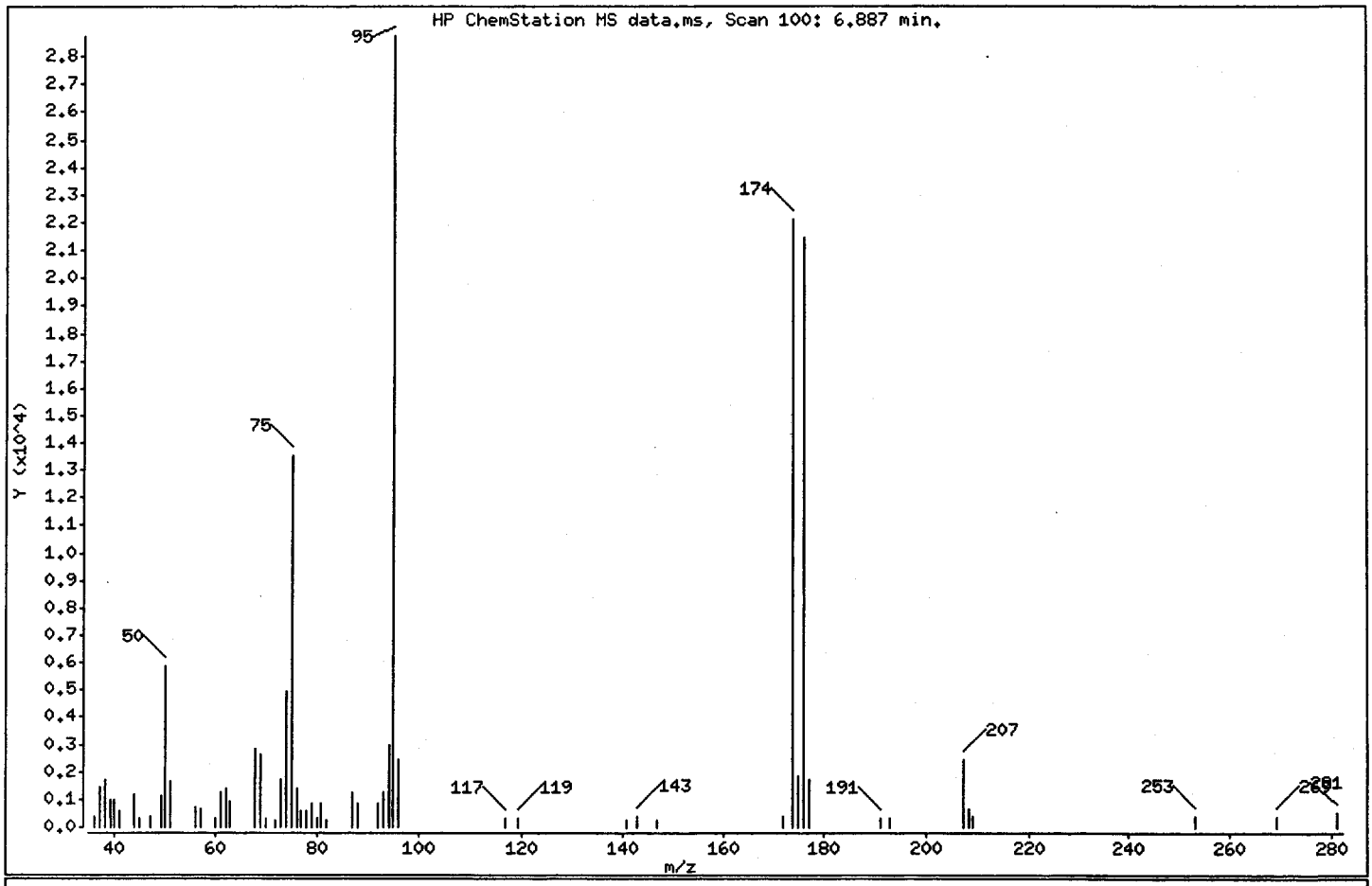
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.52
75	30.00 - 60.00% of mass 95	47.10
96	5.00 - 9.00% of mass 95	8.46
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	76.98
175	5.00 - 9.00% of mass 174	6.38 (8.29)
176	95.01 - 100.99% of mass 174	74.69 (97.03)
177	5.00 - 9.00% of mass 176	5.91 (7.91)

LW 3-8-06

03/09/06

Data File: \\GCMSSERVER\DD\chem\MSVOA07.i\031306.b\GCD02.D

Date : 13-MAR-2006 09:32

Client ID: bfb tune std

Instrument: MSVOA07.i

Sample Info: BFB,S2327

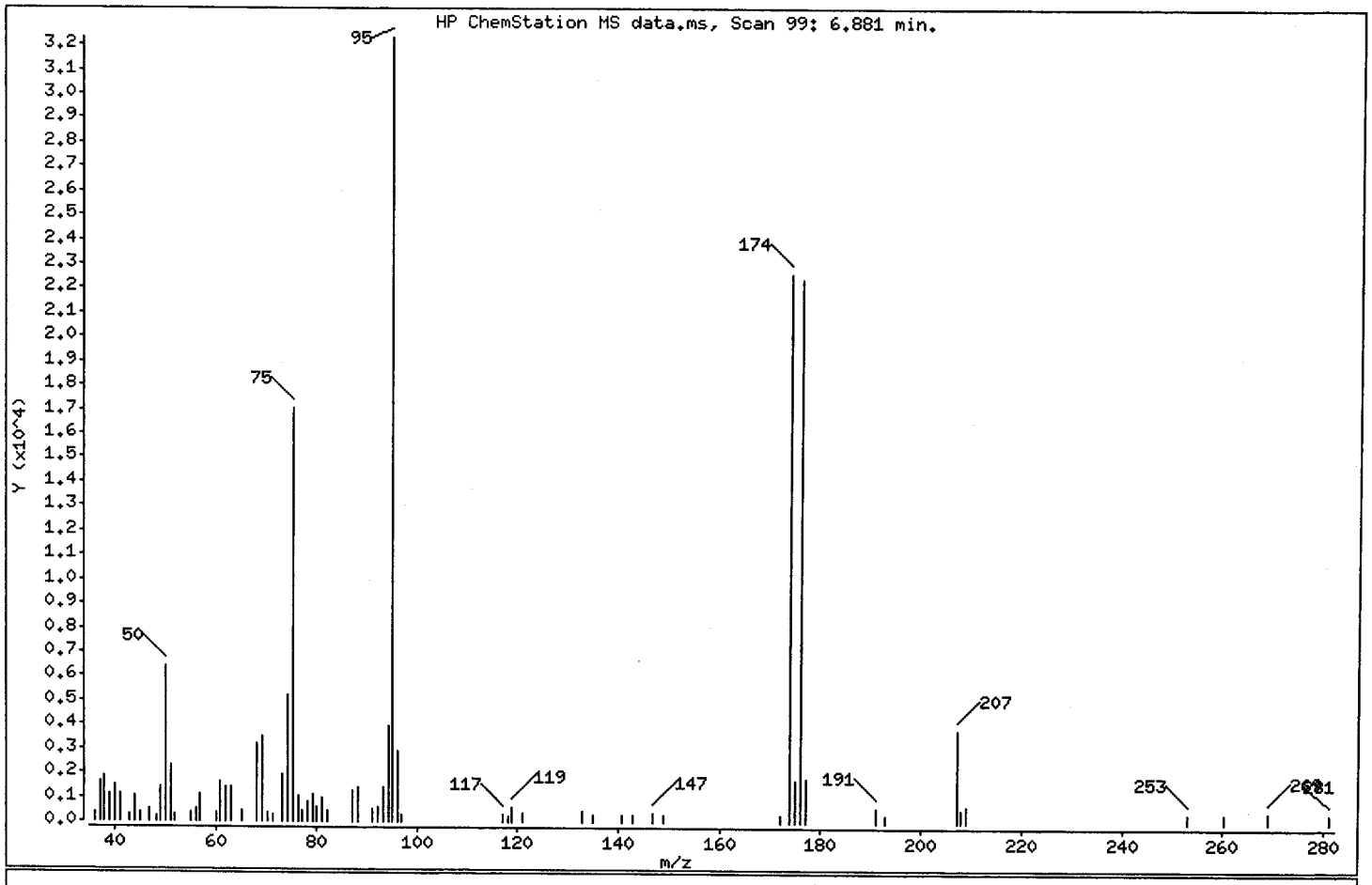
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.78
75	30.00 - 60.00% of mass 95	52.80
96	5.00 - 9.00% of mass 95	9.00
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	69.96
175	5.00 - 9.00% of mass 174	5.33 (7.62)
176	95.01 - 100.99% of mass 174	69.32 (99.08)
177	5.00 - 9.00% of mass 176	5.52 (7.96)

03/14/06

LW 3-14-06

Data File: \\GCMSSERVER\DD\chem\MSVOA07.i\031406.b\GCE12.D

Date : 14-MAR-2006 11:57

Client ID: bfb tune std

Instrument: MSVOA07.i

Sample Info: BFB,S2327

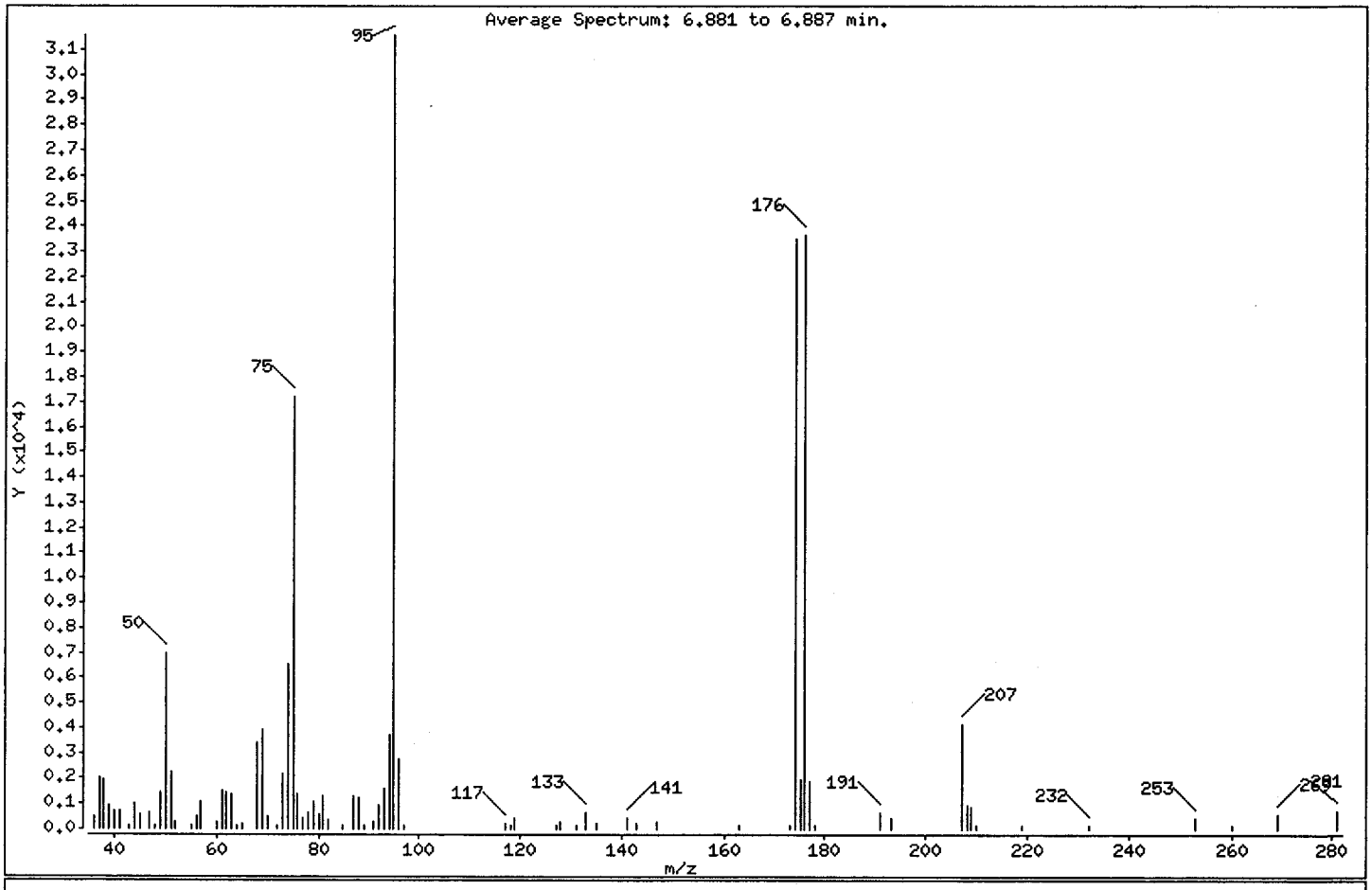
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.96
75	30.00 - 60.00% of mass 95	54.50
96	5.00 - 9.00% of mass 95	8.77
173	Less than 2.00% of mass 174	0.46 (0.61)
174	50.00 - 99.99% of mass 95	74.52
175	5.00 - 9.00% of mass 174	6.15 (8.25)
176	95.01 - 100.99% of mass 174	75.01 (100.66)
177	5.00 - 9.00% of mass 176	6.03 (8.04)

Q 03/15/06

LW 3-14-06

Data File: \\GCHSSERVER\DD\chem\MSVOA08.i\020106.b\HB107.D

ICAL

Date : 01-FEB-2006 14:11

Client ID: bfb tune std

Instrument: MSVOA08.i

Sample Info: BFB,S2327

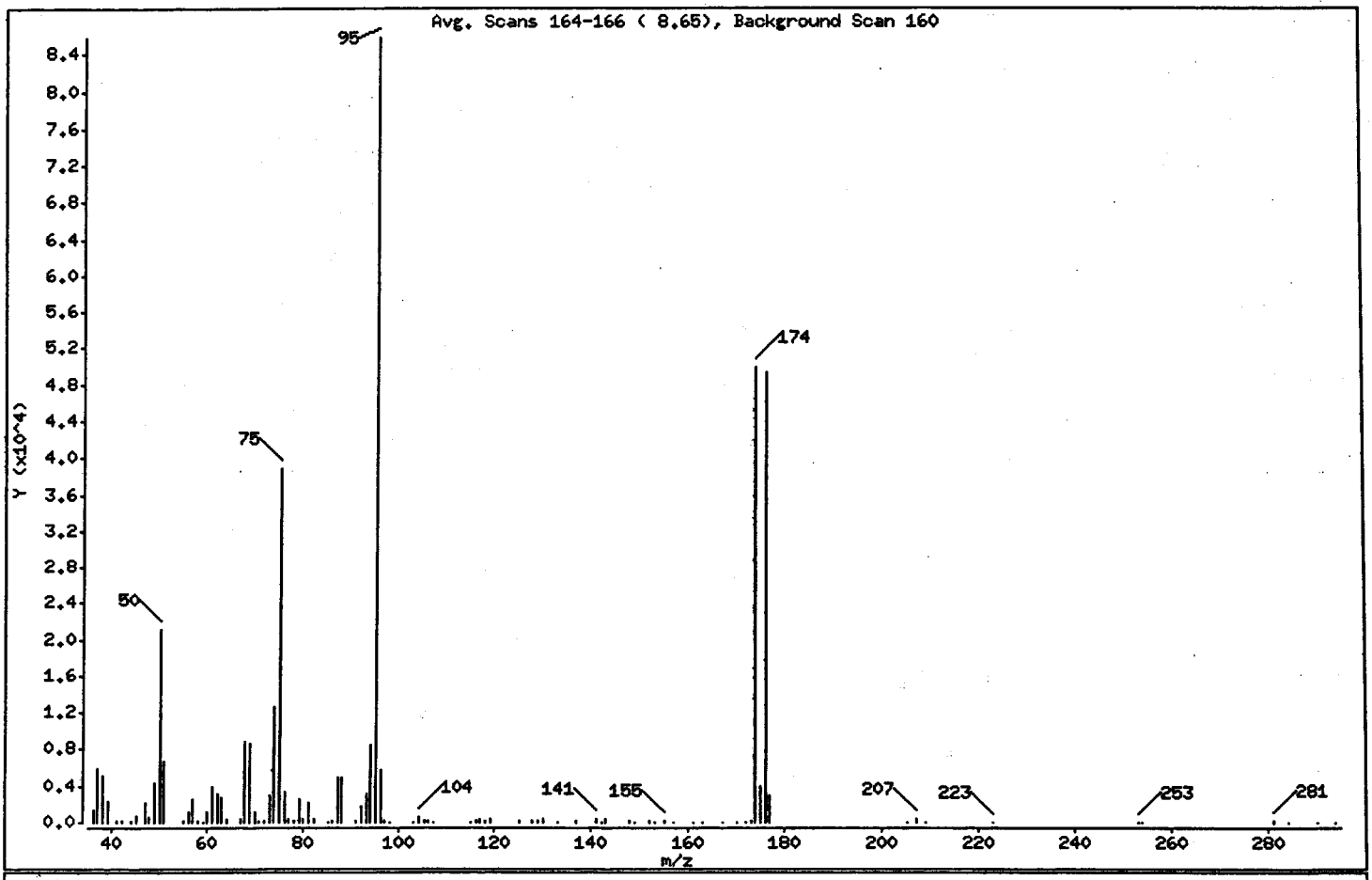
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.65
75	30.00 - 60.00% of mass 95	45.32
96	5.00 - 9.00% of mass 95	6.71
173	Less than 2.00% of mass 174	0.17 (0.29)
174	50.00 - 99.99% of mass 95	58.22
175	5.00 - 9.00% of mass 174	4.51 (7.74)
176	95.01 - 100.99% of mass 174	57.53 (98.81)
177	5.00 - 9.00% of mass 176	3.50 (6.09)

a 02/02/06

LW 2-1-06

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\031406.b\HCE02.D

Date : 14-MAR-2006 07:50

Client ID: bfb tune std

Instrument: MSVOA08.i

Sample Info: BFB,S2327

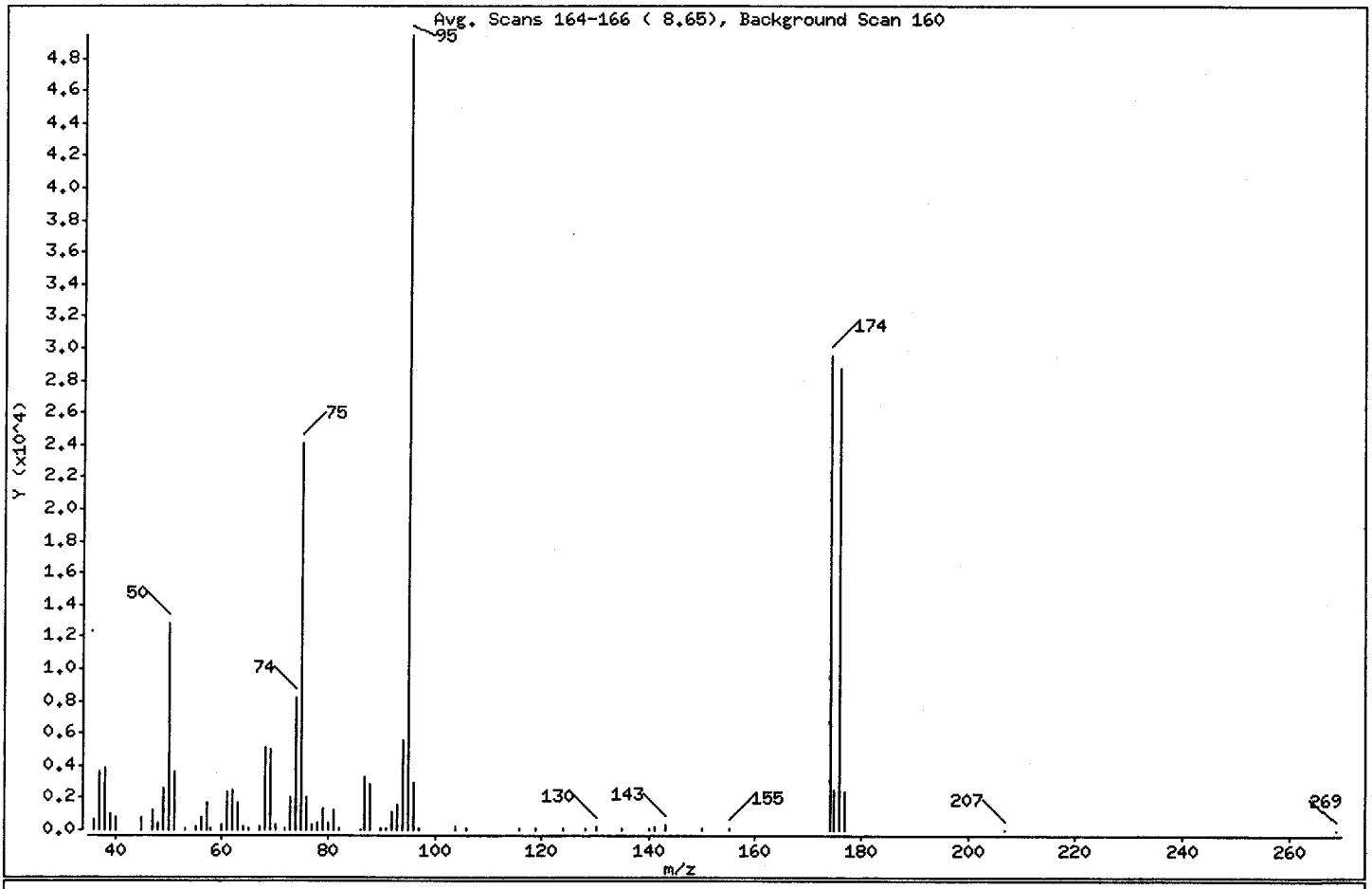
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	25.99
75	30.00 - 60.00% of mass 95	48.80
96	5.00 - 9.00% of mass 95	6.08
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	59.82
175	5.00 - 9.00% of mass 174	5.12 (8.56)
176	95.01 - 100.99% of mass 174	58.12 (97.17)
177	5.00 - 9.00% of mass 176	4.74 (8.16)

LW 3-14-06

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\031406.b\HCE06.D

Date : 14-MAR-2006 10:10

Client ID: bfb tune std

Instrument: MSVOA08.i

Sample Info: BFB,S2327

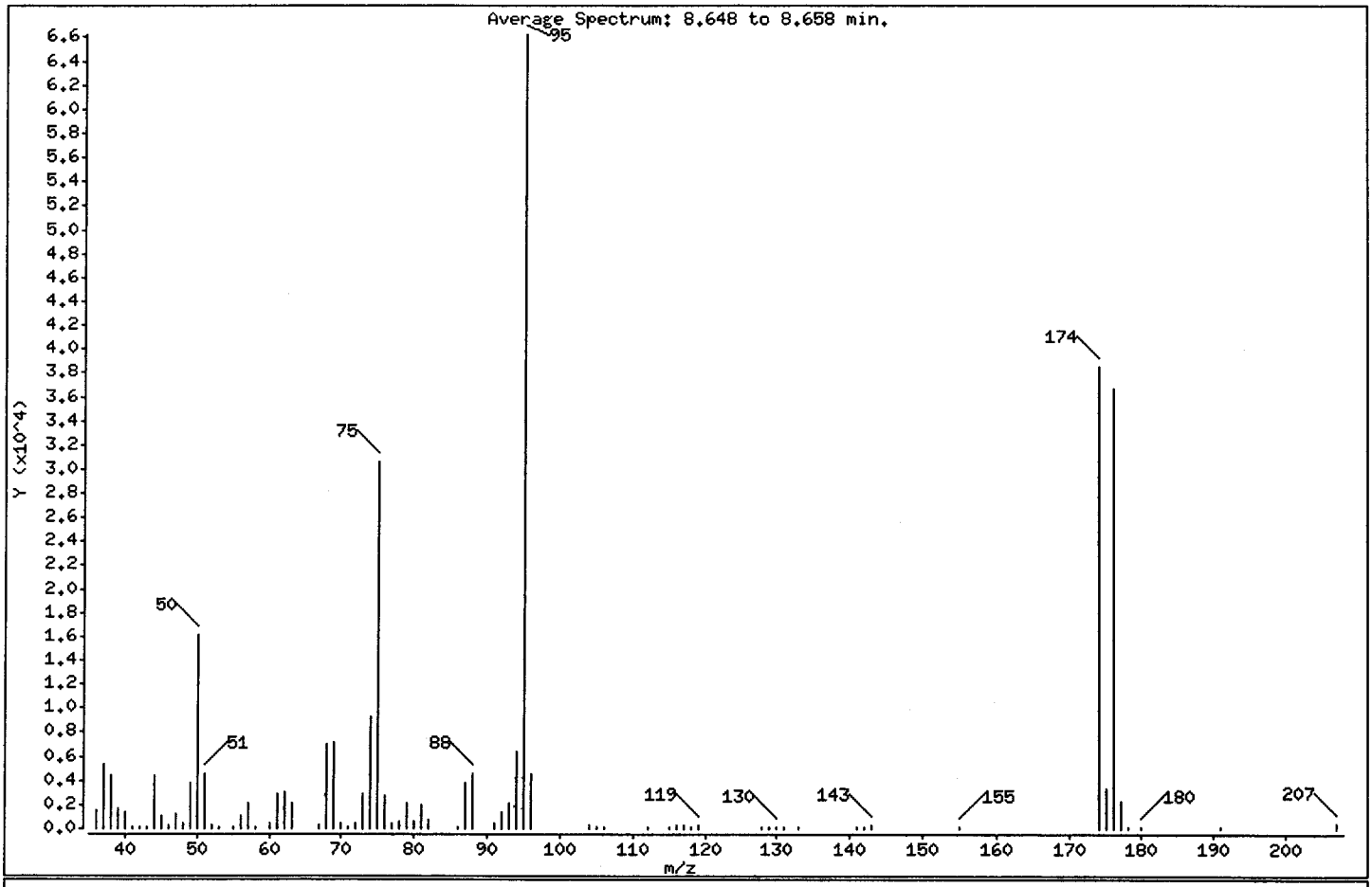
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.44
75	30.00 - 60.00% of mass 95	46.32
96	5.00 - 9.00% of mass 95	7.01
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	58.18
175	5.00 - 9.00% of mass 174	4.95 (8.50)
176	95.01 - 100.99% of mass 174	55.36 (95.15)
177	5.00 - 9.00% of mass 176	3.49 (6.30)

LW 3-14-06

8260/6A50X w/ICAL

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 8260B

Inst : MSVOA06 Name : 826GOX6W
Calnum : 456098395001 Date : 09-MAR-2006 16:16 Type : WATER Inj Vol: 5000 uL
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	fc915	456098395015	0.25/0.5PPB	09-MAR-2006 16:16	S2783 (1000000X), S2844 (2000000X), S2410 (2000000X), S2740 (1000X)
L2	fc916	456098395016	0.5/1PPB	09-MAR-2006 16:52	S2783 (500000X), S2844 (1000000X), S2410 (1000000X), S2740 (1000X)
L3	fc917	456098395017	2PPB	09-MAR-2006 17:27	S2783 (250000X), S2844 (250000X), S2410 (500000X), S2740 (1000X)
L4	fc918	456098395018	5PPB	09-MAR-2006 18:02	S2783 (100000X), S2844 (100000X), S2410 (200000X), S2740 (1000X)
L5	fc919	456098395019	10PPB	09-MAR-2006 18:37	S2783 (50000X), S2844 (50000X), S2410 (100000X), S2740 (1000X)
L6	fc920	456098395020	20PPB	09-MAR-2006 19:12	S2783 (25000X), S2844 (25000X), S2410 (50000X), S2740 (1000X)
L7	fc921	456098395021	50PPB	09-MAR-2006 19:47	S2783 (10000X), S2844 (10000X), S2410 (20000X), S2740 (1000X)
L8	fc922	456098395022	75PPB	09-MAR-2006 20:21	S2783 (6667X), S2844 (6667X), S2410 (13330X), S2740 (1000X)
L9	fc923	456098395023	100PPB	09-MAR-2006 20:56	S2783 (5000X), S2844 (5000X), S2410 (10000X), S2740 (1000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12	0.8680m	0.9680	0.5765m	0.8744	0.8792	0.9150	0.8965	0.9524	0.9525	AVRG		1.14177		0.8758	13	15	0.050	0.99	
Chloromethane		1.0407	0.8197	0.8861	0.8718	0.8601	0.8426	0.8646	0.8790	AVRG		1.13239		0.8831	8	15	0.10	0.99	
Vinyl Chloride		0.7171	0.6051	0.6632	0.7163	0.7452	0.6887	0.7352	0.7344	AVRG		1.42726		0.7006	7	15	0.050	0.99	
Bromomethane		0.6024	0.4323	0.3774m	0.4453	0.4379	0.4506	0.4719	0.4856	AVRG		2.16027		0.4629	14	15	0.050	0.99	224
Chloroethane		0.4613m	0.3695	0.3667	0.3963	0.3751	0.3702	0.3794	0.3705	AVRG		2.58977		0.3861	8	15	0.050	0.99	
Trichlorofluoromethane	0.9028	1.0932	0.6600	0.9526	1.0108	1.0176	0.9709	1.0589	1.0651	AVRG		1.03072		0.9702	13	15	0.050	0.99	
Acetone			0.4219	0.3756	0.3368	0.3359	0.3388	0.3409	0.3619	AVRG		2.78684		0.3588	9	15	0.050	0.99	
Freon 113	0.2691m	0.5570	0.4360	0.4137	0.3677	0.6318	0.5175	0.5803	0.6012	QUAD	0.47698	1.92489	-0.00450	0.4860	0.997	15	0.050	0.99	
1,1-Dichloroethene		0.7352	0.5763	0.5128	0.5011	0.6118	0.5362	0.5891	0.5653	AVRG		1.72864		0.5785	13	15	0.050	0.99	
Methylene Chloride			0.9139	0.8434	0.8800	0.8331	0.8253	0.8177	0.7888	AVRG		1.18602		0.8432	5	15	0.050	0.99	
Carbon Disulfide	2.2837	2.6686	2.2949	2.2764	2.2065	2.5367	2.2333	2.3902	2.3117	AVRG		0.42449		2.3558	6	15	0.050	0.99	
MTBE	2.3719	2.6069	2.3672	2.3297	2.4759	2.3751	2.2817	2.2760	2.2110	AVRG		0.42263		2.3661	5	15	0.050	0.99	
trans-1,2-Dichloroethene	0.8087	0.8602	0.7243	0.6502	0.6899	0.7306	0.6509	0.6857	0.6557	AVRG		1.39398		0.7174	10	15	0.050	0.99	
Vinyl Acetate			1.9969	2.0862	2.3777	2.3751	2.1802	2.1010	1.6685	AVRG		0.47343		2.1122	12	15	0.050	0.99	
1,1-Dichloroethane	1.3957	1.3639	1.3232	1.2979	1.3981	1.3860	1.2808	1.2798	1.2290	AVRG		0.75287		1.3283	5	15	0.10	0.99	
2-Butanone			0.5173	0.5270	0.5376	0.5134	0.5002	0.4880	0.4823	AVRG		1.96307		0.5094	4	15	0.050	0.99	
2,2-Dichloropropane	0.9564	0.9889	0.8727	0.8184	0.8080	0.8908	0.8009	0.8201	0.7889	AVRG		1.16202		0.8606	8	15	0.050	0.99	
cis-1,2-Dichloroethene	0.9107	1.1319	0.8972	0.7496	0.8309	0.8146	0.7717	0.7577	0.7354	AVRG		1.18426		0.8444	15	15	0.050	0.99	
Chloroform	1.3805	1.3756	1.3398	1.2327	1.3778	1.3326	1.2646	1.2664	1.2263	AVRG		0.76295		1.3107	5	15	0.050	0.99	
Bromochloromethane	0.4203	0.4021	0.3837	0.3777	0.4174	0.4032	0.3915	0.3833	0.3676	AVRG		2.53746		0.3941	5	15	0.050	0.99	
1,1,1-Trichloroethane		1.0081	0.8067	0.8058	0.8046	0.9240	0.8224	0.8722	0.8424	AVRG		1.16175		0.8608	8	15	0.050	0.99	
1,1-Dichloropropene	0.4858	0.5312	0.4502	0.4425	0.3977	0.5194	0.4552	0.4808	0.4704	AVRG		2.12606		0.4704	9	15	0.050	0.99	
Carbon Tetrachloride		0.3073	0.2921	0.2937	0.2606	0.3804	0.3380	0.3706	0.3665	AVRG		3.06619		0.3261	13	15	0.050	0.99	
1,2-Dichloroethane	0.4942	0.5146	0.5630	0.5277	0.5457	0.5374	0.5191	0.5090	0.4981	AVRG		1.91131		0.5232	4	15	0.050	0.99	

456098395001

* ICAL - 2CLEVE fails min RF

* ICV - OK, USACE - sec-butylben↑, n-butylben↑, Hxclben↑

12/7/10/06

03/13/09

8260/6A5DA w ICAL

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene	1.6327	1.7415	1.5949	1.5390	1.5479	1.6182	1.4706	1.4944	1.4202	AVRG		0.64014		1.5622	6	15	0.050	0.99	
Trichloroethene	0.3756	0.3562	0.3979	0.3748	0.3444	0.3855	0.3552	0.3686	0.3644	AVRG		2.70866		0.3692	4	15	0.050	0.99	
1,2-Dichloropropane	0.4914	0.4838	0.4456	0.4445	0.4699	0.4661	0.4333	0.4225	0.4047	AVRG		2.21578		0.4513	6	15	0.050	0.99	
Bromodichloromethane	0.4830	0.5465	0.5319	0.5177	0.5563	0.5546	0.5379	0.5303	0.5163	AVRG		1.88501		0.5305	4	15	0.050	0.99	
Dibromomethane	0.3219	0.2846	0.3084	0.3282	0.3310	0.3215	0.3095	0.3076	0.2984	AVRG		3.20146		0.3124	5	15	0.050	0.99	
2-Chloroethylvinylether				0.0290	0.0425	0.0536	0.0254	0.0156	0.0146	AVRG		33.2104		**0.0301**	**51**	15	0.050	0.99	irf rsd ***
4-Methyl-2-Pentanone			0.5392	0.5694	0.5708	0.5734	0.5627	0.5453	0.5209	AVRG		1.80333		0.5545	4	15	0.050	0.99	
Tetramethyl THF	0.9159	0.9813	0.9650	1.0086	1.0453	1.0237	0.9698	0.9221	0.8787	AVRG		1.03322		0.9678	6	15	0.050	0.99	
cis-1,3-Dichloropropene	0.6435	0.6884	0.7029	0.6696	0.7113	0.7213	0.6799	0.6556	0.6275	AVRG		1.47543		0.6778	5	15	0.050	0.99	
Toluene	0.9220	0.9482	0.8704	0.8678	0.8594	0.9253	0.8658	0.8502	0.8110	AVRG		1.13637		0.8800	5	15	0.050	0.99	
trans-1,3-Dichloropropene	0.6287	0.5668	0.6534	0.6399	0.6423	0.6569	0.6248	0.6181	0.5994	AVRG		1.59850		0.6256	5	15	0.050	0.99	
1,1,2-Trichloroethane	0.2389	0.2273	0.2398	0.2266	0.2371	0.2267	0.2268	0.2233	0.2084	AVRG		4.37964		0.2283	4	15	0.050	0.99	
2-Hexanone			0.4755	0.4579	0.4988	0.4708	0.4743	0.4590	0.4522	AVRG		2.12866		0.4698	3	15	0.050	0.99	
1,3-Dichloropropane	0.8071	0.8843	0.8389	0.8337	0.8725	0.8567	0.8344	0.8163	0.7853	AVRG		1.19534		0.8366	4	15	0.050	0.99	
Tetrachloroethene	0.2946	0.3850	0.3426	0.3281	0.2957	0.3734	0.3402	0.3726	0.3683	AVRG		2.90285		0.3445	10	15	0.050	0.99	
Dibromochloromethane		0.4320	0.4554	0.4456	0.4904	0.4897	0.4855	0.5015	0.4889	AVRG		2.11142		0.4736	5	15	0.050	0.99	
1,2-Dibromoethane	0.4131	0.4720	0.4227	0.4372	0.4254	0.4444	0.4276	0.4156	0.4013	AVRG		2.33205		0.4288	5	15	0.050	0.99	
Chlorobenzene	1.1003	1.1189	1.1375	1.0887	1.1030	1.1325	1.0837	1.0870	1.0463	AVRG		0.90929		1.0998	3	15	0.30	0.99	
1,1,1,2-Tetrachloroethane	0.4216	0.4183	0.4392	0.3942	0.4086	0.4121	0.3960	0.3993	0.3792	AVRG		2.45334		0.4076	4	15	0.050	0.99	
Ethylbenzene	1.7509	1.9418	1.7223	1.7955	1.8120	1.9422	1.7826	1.8095	1.7055	AVRG		0.55342		1.8069	5	15	0.050	0.99	
m,p-Xylenes	0.6465	0.6812	0.6719	0.6486	0.6238	0.6676	0.6196	0.6283	0.5981	AVRG		1.55558		0.6428	4	15	0.050	0.99	
o-Xylene	0.6716	0.6655	0.6582	0.6666	0.6714	0.6702	0.6379	0.6472	0.6196	AVRG		1.52326		0.6565	3	15	0.050	0.99	
Styrene	1.1253	1.1203	1.1839	1.1608	1.2220	1.1939	1.1716	1.1703	1.1136	AVRG		0.86028		1.1624	3	15	0.050	0.99	
Bromoform		0.4158	0.3725	0.3668	0.3776	0.3781	0.3815	0.3951	0.3865	AVRG		2.60262		0.3842	4	15	0.10	0.99	
Isopropylbenzene	3.0450	3.7105	2.9352	2.9640	2.6546	3.1567	2.9111	2.9636	2.8824	AVRG		0.33060		3.0248	10	15	0.050	0.99	
1,1,2,2-Tetrachloroethane	1.4511	1.5750	1.5714	1.5398	1.5179	1.5289	1.4592	1.4001	1.2839	AVRG		0.67530		1.4808	6	15	0.30	0.99	
1,2,3-Trichloropropane		1.3699	1.2860	1.3461	1.2292	1.1989	1.1012	1.1063	1.0055	AVRG		0.82961		1.2054	11	15	0.050	0.99	
Propylbenzene	4.0372	4.5130	3.7305	3.6589	3.2640	3.9504	3.4912	3.6230	3.4066	AVRG		0.26726		3.7416	10	15	0.050	0.99	
Bromobenzene		1.1139	1.0469	1.0733	1.0018	1.0426	0.9966	0.9976	0.9548	AVRG		0.97236		1.0284	5	15	0.050	0.99	
1,3,5-Trimethylbenzene	2.2600	2.1966	2.2475	2.1688	2.0293	2.3001	2.1633	2.2516	2.1361	AVRG		0.45562		2.1948	4	15	0.050	0.99	
2-Chlorotoluene		3.4188	3.0168	2.8451	2.7407	2.8866	2.6995	2.7496	2.5443	AVRG		0.34932		2.8627	9	15	0.050	0.99	
4-Chlorotoluene		3.0431	2.7497	2.6703	2.5756	2.6852	2.5424	2.5817	2.4097	AVRG		0.37633		2.6572	7	15	0.050	0.99	
tert-Butylbenzene	1.8662	1.9510	1.7346	1.7486	1.5081	1.8648	1.7394	1.8192	1.7691	AVRG		0.56246		1.7779	7	15	0.050	0.99	
1,2,4-Trimethylbenzene	2.1543	1.9648	2.0970	2.0597	1.9258	2.1315	2.1157	2.2225	2.1158	AVRG		0.47905		2.0875	4	15	0.050	0.99	
sec-Butylbenzene	2.3308	2.6293	2.4399	2.3495	2.0214	2.7492	2.5343	2.6894	2.6025	AVRG		0.40275		2.4829	9	15	0.050	0.99	
para-Isopropyl Toluene	1.5801	1.7641	1.6028	1.6276	1.4714	1.8970	1.7755	1.9361	1.9108	AVRG		0.57820		1.7295	10	15	0.050	0.99	
1,3-Dichlorobenzene		1.6988	1.5733	1.5941	1.5727	1.5986	1.5691	1.5947	1.5144	AVRG		0.62914		1.5895	3	15	0.050	0.99	
1,4-Dichlorobenzene		1.7472	1.6169	1.6416	1.5713	1.6334	1.5981	1.6118	1.5410	AVRG		0.61722		1.6202	4	15	0.050	0.99	
n-Butylbenzene	1.2556m	1.2680	1.1694	1.2384	1.1150	1.5480	1.4932	1.6751		AVRG		0.74330		1.3453	15	15	0.050	0.99	
1,2-Dichlorobenzene	1.6166	1.5880	1.6074	1.5255	1.5923	1.6263	1.5827	1.6034	1.5227	AVRG		0.63091		1.5850	2	15	0.050	0.99	
1,2-Dibromo-3-Chloropropane		0.4470	0.2579	0.2564	0.2580	0.2398	0.2539	0.2490	0.2346	QUAD	0.47192	3.56985	0.026979	0.2746	0.999	15	0.050	0.99	

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8260/6A5DX w ICAL

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,4-Trichlorobenzene		0.2944	0.2500	0.3087	0.3271	0.4092	0.4596	0.5190		QUAD	0.92464	2.49106	-0.01515	0.3669	1.000	15	0.050	0.99	
Hexachlorobutadiene		0.1187	0.1187	0.1651	0.1497	0.2176	0.1989	0.2202		QUAD	0.60549	5.24561	-0.04346	0.1698	0.998	15	0.050	0.99	
Naphthalene		0.9088	1.1015	1.2352	1.2876	1.4547	1.5128	1.6406		QUAD	0.38280	0.72437	-0.00095	1.3059	1.000	15	0.050	0.99	
1,2,3-Trichlorobenzene		0.0995	0.1978	0.2610	0.3083	0.3840	0.4492	0.4988		QUAD	1.33161	2.52321	-0.01492	0.3141	0.999	15	0.050	0.99	
tert-Butyl Alcohol (TBA)		0.0818	0.0805	0.0738	0.0815	0.0735	0.0736	0.0724	0.0699	AVRG		13.1818		0.0759	6	15	0.005	0.99	
Isopropyl Ether (DIPE)	3.2567	3.3956	3.2417	3.2117	3.3782	3.2997	3.1147	3.0586	2.9453	AVRG		0.31139		3.2114	5	15	0.050	0.99	
Ethyl tert-Butyl Ether (ETBE)	2.3188	2.6225	2.2969	2.3394	2.5024	2.4089	2.3275	2.2862	2.2246	AVRG		0.42200		2.3697	5	15	0.050	0.99	
Methyl tert-Amyl Ether (TAME)	1.2958	1.2847	1.2257	1.2293	1.2872	1.2825	1.2181	1.1963	1.1444	AVRG		0.80616		1.2404	4	15	0.050	0.99	
Ethanol			0.0110	0.0102	0.0106	0.0105	0.0104	0.0099	0.0093	AVRG		97.4264		0.0103	5	15	0.0005	0.99	
Isopropanol			0.0559	0.0548	0.0603	0.0557	0.0549	0.0526	0.0503	AVRG		18.2030		0.0549	6	15	0.005	0.99	
Tetrahydrofuran		0.3409	0.3051	0.2903	0.2975	0.2769	0.2565	0.2379	0.2247	AVRG		3.58787		0.2787	14	15	0.005	0.99	
Dibromofluoromethane	0.6644	0.6697	0.6638	0.6731	0.6917	0.6728	0.6624	0.6531	0.6477	AVRG		1.50037		0.6665	2	15	0.050	0.99	
1,2-Dichloroethane-d4	0.4089	0.4041	0.4036	0.4047	0.4117	0.4195	0.3956	0.3924	0.3907	AVRG		2.47863		0.4034	2	15	0.050	0.99	
Trifluorotoluene	0.3443	0.4122	0.3901	0.3862	0.3403	0.4826	0.4069	0.4535	0.4452	AVRG		2.45821		0.4068	12	15	0.050	0.99	
Toluene-d8	1.0901	1.0831	1.0992	1.0967	1.0656	1.1116	1.0928	1.0808	1.0799	AVRG		0.91840		1.0888	1	15	0.050	0.99	
Bromofluorobenzene	1.2572	1.2682	1.1891	1.2097	1.1794	1.1768	1.1763	1.1778	1.1406	AVRG		0.83526		1.1972	3	15	0.050	0.99	

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for incomplete integration in target

irf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure

AVRG=Average response factor QUAD=Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC915.D
Report Date: 10-Mar-2006 08:54

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC915.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 09-MAR-2006 16:16 MS Autotune Date: 24-FEB-2006 08:08
Operator : BO Inst ID: MSVOA06.i
Smp Info : ICAL,S2783,0.001/1000,S2844,0.0005/1000,
Misc Info : S2410,0.0005/1000,0.25/0.5PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\826GOX6W.m
Meth Date : 10-Mar-2006 08:53 target Quant Type: ISTD
Cal Date : 09-MAR-2006 16:16 Cal File: FC915.D
Als bottle: 15 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.469	4.469	(0.362)	8252	0.50000	0.4955(M)
2 Chloromethane	50	4.952	4.952	(0.401)	10029	0.50000	0.5973
3 Vinyl Chloride	62	5.199	5.199	(0.421)	5975	5.00000	0.4485(M)
4 Bromomethane	94	6.026	6.026	(0.488)	3340	0.50000	0.3794(M)
5 Chloroethane	64	6.233	6.233	(0.505)	3065	0.50000	0.4174
6 Trichlorofluoromethane	101	6.745	6.745	(0.547)	8582	0.50000	0.4652
7 Ethanol	45	7.257	7.257	(0.588)	7410	25.0000	37.9704
8 Freon 113	101	7.829	7.829	(0.634)	1279	0.25000	0.6064(M)
9 1,1-Dichloroethene	96	7.927	7.927	(0.642)	3802	0.25000	0.3456(M)
10 Acetone	43	8.144	8.144	(0.660)	3053	0.25000	0.4474
11 Isopropanol	45	8.361	8.361	(0.677)	3823	2.50000	3.6601
12 Carbon Disulfide	76	8.400	8.400	(0.681)	10855	0.25000	0.2423
13 Methylene Chloride	84	9.021	9.021	(0.731)	4995	0.25000	0.3115
14 tert-Butyl Alcohol (TBA)	59	9.149	9.149	(0.741)	4437	2.50000	3.0762
15 MTBE	73	9.415	9.415	(0.763)	11274	0.25000	0.2506
16 trans-1,2-Dichloroethene	96	9.474	9.474	(0.768)	3844	0.25000	0.2818

m3/10/06

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC915.D
Report Date: 10-Mar-2006 08:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	10.312	10.312	(0.836)	15480	0.25000	0.2535
	19 Vinyl Acetate	43	10.400	10.400	(0.843)	10777	0.25000	0.2683
	18 1,1-Dichloroethane	63	10.361	10.361	(0.840)	6634	0.25000	0.2626
	20 Ethyl tert-Butyl Ether (ETBE)	59	10.981	10.981	(0.890)	11022	0.25000	0.2446
	21 2,2-Dichloropropane	77	11.415	11.415	(0.925)	4546	0.25000	0.2778
	22 cis-1,2-Dichloroethene	96	11.464	11.464	(0.929)	4329	0.25000	0.2696
	23 2-Butanone	43	11.484	11.484	(0.931)	3003	0.25000	0.3100
	24 Bromochloromethane	128	11.917	11.917	(0.966)	1998	0.25000	0.2666
	25 Tetrahydrofuran	42	11.917	11.917	(0.966)	17032	0.25000	3.2140
	26 Chloroform	83	11.996	11.996	(0.972)	6562	0.25000	0.2633
$	27 Dibromofluoromethane	113	12.302	12.302	(0.997)	631597	50.0000	49.8412
	28 1,1,1-Trichloroethane	97	12.311	12.311	(0.998)	3450	0.25000	0.2108
*	29 Pentafluorobenzene	168	12.341	12.341	(1.000)	950646	50.0000	
	30 Carbon Tetrachloride	117	12.538	12.538	(0.918)	1976	0.25000	0.1798
	31 1,1-Dichloropropene	75	12.597	12.597	(0.922)	4091	0.25000	0.2582
$	32 1,2-Dichloroethane-d4	65	12.962	12.962	(0.949)	688673	50.0000	50.6763
	33 Benzene	78	12.971	12.971	(0.950)	13749	0.25000	0.2612
	34 Methyl tert-Amyl Ether (TAME)	73	13.060	13.060	(0.956)	10912	0.25000	0.2611
	35 1,2-Dichloroethane	62	13.109	13.109	(0.960)	4162	0.25000	0.2361
*	36 1,4-Difluorobenzene	114	13.661	13.661	(1.000)	1684181	50.0000	
	37 Trichloroethene	95	14.095	14.095	(1.032)	3163	0.25000	0.2543
	38 1,2-Dichloropropane	63	14.577	14.577	(1.067)	4138	0.25000	0.2722
$	39 Trifluorotoluene	146	14.597	14.597	(1.069)	2899	0.25000	0.2115
	40 Dibromomethane	93	14.784	14.784	(1.082)	2711	0.25000	0.2576
	41 Bromodichloromethane	83	15.011	15.011	(1.099)	4067	0.25000	0.2275
	42 2-Chloroethylvinylether	63	15.503	15.503	(1.135)	672	0.25000	0.6625
	43 Tetramethyl THF	43	15.759	15.759	(1.154)	7713	0.25000	0.2365
	44 cis-1,3-Dichloropropene	75	15.779	15.779	(1.155)	5419	0.25000	0.2373
	45 4-Methyl-2-Pentanone	43	15.976	15.976	(1.169)	4881	0.25000	0.2613
$	46 Toluene-d8	98	16.163	16.163	(1.183)	1835860	50.0000	50.0556
	47 Toluene	92	16.272	16.272	(1.191)	7764	0.25000	0.2619
	48 trans-1,3-Dichloropropene	75	16.676	16.676	(1.221)	5294	0.25000	0.2512
	49 1,1,2-Trichloroethane	85	16.952	16.952	(1.241)	2012	0.25000	0.2616
	50 Tetrachloroethene	166	17.070	17.070	(0.932)	2037	0.25000	0.2137
	51 1,3-Dichloropropane	76	17.227	17.227	(0.940)	5581	0.25000	0.2411
	52 2-Hexanone	43	17.247	17.247	(0.941)	3055	0.25000	0.2351
	53 Dibromochloromethane	129	17.523	17.523	(0.956)	2610	0.25000	0.1992
	54 1,2-Dibromoethane	107	17.720	17.720	(1.297)	3479	0.25000	0.2408
*	55 Chlorobenzene-d5	117	18.321	18.321	(1.000)	1382915	50.0000	
	56 Chlorobenzene	112	18.360	18.360	(1.002)	7608	0.25000	0.2501
	57 Ethylbenzene	91	18.439	18.439	(1.006)	12107	0.25000	0.2422
	58 1,1,1,2-Tetrachloroethane	131	18.459	18.459	(1.008)	2915	0.25000	0.2585
	59 m,p-Xylenes	106	18.597	18.597	(1.015)	8941	0.50000	0.5028
	60 o-Xylene	106	19.119	19.119	(1.044)	4644	0.25000	0.2557
	61 Styrene	104	19.148	19.148	(1.045)	7781	0.25000	0.2420
	62 Bromoform	173	19.434	19.434	(1.061)	3403	0.25000	0.3202
	63 Isopropylbenzene	105	19.552	19.552	(0.924)	9674	0.25000	0.2516

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC915.D
Report Date: 10-Mar-2006 08:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	64 Cyclohexanone_	55	19.789	19.789	(0.935)	7466	0.25000	16.6745
$	65 Bromofluorobenzene	95	19.808	19.808	(0.936)	798787	50.0000	52.5022
	66 1,1,2,2-Tetrachloroethane	83	19.966	19.966	(0.944)	4610	0.25000	0.2449
	67 Bromobenzene	156	20.015	20.015	(0.946)	3641	0.25000	0.2785
	68 Propylbenzene	91	20.045	20.045	(0.947)	12826	0.25000	0.2697
	69 1,2,3-Trichloropropane	75	20.055	20.055	(0.948)	5583	0.25000	0.3644
	70 2-Chlorotoluene	91	20.203	20.203	(0.955)	11049	0.25000	0.3037
	71 1,3,5-Trimethylbenzene	105	20.232	20.232	(0.956)	7180	0.25000	0.2574
	72 4-Chlorotoluene	91	20.331	20.331	(0.961)	9837	0.25000	0.2913
	73 tert-Butylbenzene	119	20.616	20.616	(0.974)	5929	0.25000	0.2624
	74 1,2,4-Trimethylbenzene	105	20.675	20.675	(0.977)	6844	0.25000	0.2579
	75 sec-Butylbenzene	105	20.872	20.872	(0.986)	7405	0.25000	0.2346
	76 para-Isopropyl Toluene	119	21.010	21.010	(0.993)	5020	0.25000	0.2284
	77 1,3-Dichlorobenzene	146	21.079	21.079	(0.996)	5775	0.25000	0.2859
*	78 1,4-Dichlorobenzene-d4	152	21.158	21.158	(1.000)	635395	50.0000	
	79 1,4-Dichlorobenzene	146	21.188	21.188	(1.001)	6067	0.25000	0.2946
	80 n-Butylbenzene	91	21.483	21.483	(1.015)	3989	0.25000	0.2333 (M)
	81 1,2-Dichlorobenzene	146	21.641	21.641	(1.023)	5136	0.25000	0.2549
	82 1,2-Dibromo-3-Chloropropane	75	22.597	22.597	(1.068)	1893	0.25000	1.0042 (M)
	83 1,2,4-Trichlorobenzene	180	23.660	23.660	(1.118)	310	0.25000	0.9853 (M)
	84 Hexachlorobutadiene	225	23.789	23.789	(1.124)	114	0.25000	0.6525 (M)
	85 Naphthalene	128	24.074	24.074	(1.138)	2296	0.25000	0.5136
	86 1,2,3-Trichlorobenzene	180	24.468	24.468	(1.156)	160	0.25000	1.3633 (M)

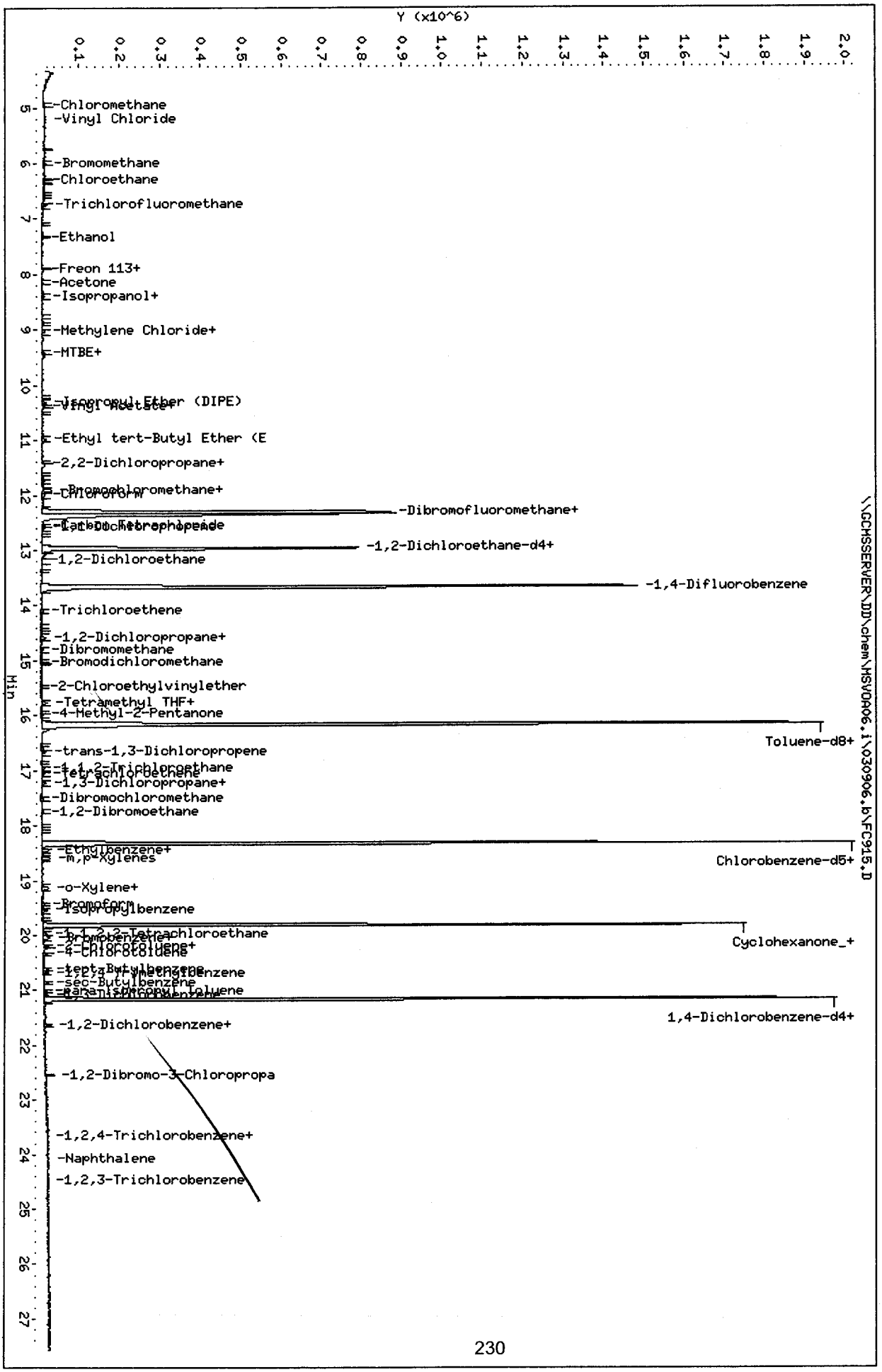
n 31 ratios

QC Flag Legend

M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC915.D
Date : 09-MAR-2006 16:16
Client ID: DYNA P&T
Sample Info: ICAL,S2783,0.001/1000,S2844,0.0005/1000,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA06.i
Operator: BO
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC916.D
Report Date: 10-Mar-2006 08:54

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC916.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 09-MAR-2006 16:52 MS Autotune Date: 24-FEB-2006 08:08
Operator : BO Inst ID: MSVOA06.i
Smp Info : ICAL,S2783,0.002/1000,S2844,0.001/1000,
Misc Info : S2410,0.001/1000,0.5/1PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\826GOX6W.m
Meth Date : 10-Mar-2006 08:54 target Quant Type: ISTD
Cal Date : 09-MAR-2006 16:16 Cal File: FC915.D
Als bottle: 16 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.462	4.462	(0.362)	17831	1.00000	1.1052
2 Chloromethane	50	4.964	4.964	(0.402)	19171	1.00000	1.1784
3 Vinyl Chloride	62	5.191	5.191	(0.421)	13210	1.00000	1.0235
4 Bromomethane	94	6.018	6.018	(0.488)	11096	1.00000	1.3012
5 Chloroethane	64	6.235	6.235	(0.505)	8498	1.00000	1.1947(M) n-3110 lov
6 Trichlorofluoromethane	101	6.747	6.747	(0.547)	20138	1.00000	1.1267
7 Ethanol	45	7.260	7.260	(0.588)	10491	50.0000	55.4854
8 Freon 113	101	7.851	7.851	(0.636)	5130	0.50000	1.0126
9 1,1-Dichloroethene	96	7.930	7.930	(0.642)	6772	0.50000	0.6354
10 Acetone	43	8.146	8.146	(0.660)	4919	0.50000	0.7441
11 Isopropanol	45	8.353	8.353	(0.677)	6158	5.00000	6.0851
12 Carbon Disulfide	76	8.403	8.403	(0.681)	24579	0.50000	0.5663
13 Methylene Chloride	84	9.013	9.013	(0.730)	8777	0.50000	0.5650
14 tert-Butyl Alcohol (TBA)	59	9.151	9.151	(0.741)	7538	5.00000	5.3940
15 MTBE	73	9.417	9.417	(0.763)	24011	0.50000	0.5508
16 trans-1,2-Dichloroethene	96	9.486	9.486	(0.769)	7923	0.50000	0.5995

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC916.D
Report Date: 10-Mar-2006 08:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	10.314	10.314	(0.836)	31275	0.50000	0.5286
	19 Vinyl Acetate	43	10.383	10.383	(0.841)	21181	0.50000	0.5443
	18 1,1-Dichloroethane	63	10.373	10.373	(0.840)	12562	0.50000	0.5134
	20 Ethyl tert-Butyl Ether (ETBE)	59	10.984	10.984	(0.890)	24155	0.50000	0.5533
	21 2,2-Dichloropropane	77	11.407	11.407	(0.924)	9108	0.50000	0.5745
	22 cis-1,2-Dichloroethene	96	11.457	11.457	(0.928)	10425	0.50000	0.6702
	23 2-Butanone	43	11.476	11.476	(0.930)	6325	0.50000	0.6740
	24 Bromochloromethane	128	11.900	11.900	(0.964)	3704	0.50000	0.5102
	25 Tetrahydrofuran	42	11.920	11.920	(0.966)	31399	5.00000	6.1155
	26 Chloroform	83	11.998	11.998	(0.972)	12670	0.50000	0.5247
$	27 Dibromofluoromethane	113	12.304	12.304	(0.997)	616823	50.0000	50.2393
	28 1,1,1-Trichloroethane	97	12.304	12.304	(0.997)	9285	0.50000	0.5855
*	29 Pentafluorobenzene	168	12.343	12.343	(1.000)	921053	50.0000	
	30 Carbon Tetrachloride	117	12.550	12.550	(0.919)	5124	0.50000	0.4711
	31 1,1-Dichloropropene	75	12.599	12.599	(0.923)	8857	0.50000	0.5646
$	32 1,2-Dichloroethane-d4	65	12.964	12.964	(0.949)	673820	50.0000	50.0847
	33 Benzene	78	12.974	12.974	(0.950)	29036	0.50000	0.5573
	34 Methyl tert-Amyl Ether (TAME)	73	13.062	13.062	(0.957)	21420	0.50000	0.5178
	35 1,2-Dichloroethane	62	13.112	13.112	(0.960)	8580	0.50000	0.4917
*	36 1,4-Difluorobenzene	114	13.653	13.653	(1.000)	1667320	50.0000	
	37 Trichloroethene	95	14.087	14.087	(1.032)	5939	0.50000	0.4824
	38 1,2-Dichloropropane	63	14.580	14.580	(1.068)	8066	0.50000	0.5359
$	39 Trifluorotoluene	146	14.599	14.599	(1.069)	6873	0.50000	0.5066
	40 Dibromomethane	93	14.796	14.796	(1.084)	4746	0.50000	0.4556
	41 Bromodichloromethane	83	15.023	15.023	(1.100)	9112	0.50000	0.5150
	42 2-Chloroethylvinylether	63	15.496	15.496	(1.135)	788	1.00000	0.7847
	43 Tetramethyl THF	43	15.762	15.762	(1.154)	16362	0.50000	0.5069
	44 cis-1,3-Dichloropropene	75	15.781	15.781	(1.156)	11477	0.50000	0.5078
	45 4-Methyl-2-Pentanone	43	15.978	15.978	(1.170)	10252	0.50000	0.5544
$	46 Toluene-d8	98	16.166	16.166	(1.184)	1805813	50.0000	49.7342
	47 Toluene	92	16.264	16.264	(1.191)	15810	0.50000	0.5387
	48 trans-1,3-Dichloropropene	75	16.668	16.668	(1.221)	9451	0.50000	0.4530
	49 1,1,2-Trichloroethane	85	16.954	16.954	(1.242)	3789	0.50000	0.4976
	50 Tetrachloroethene	166	17.072	17.072	(0.932)	5289	0.50000	0.5587
	51 1,3-Dichloropropane	76	17.230	17.230	(0.940)	12149	0.50000	0.5285
	52 2-Hexanone	43	17.249	17.249	(0.941)	6388	0.50000	0.4948
	53 Dibromochloromethane	129	17.525	17.525	(0.956)	5935	0.50000	0.4560
	54 1,2-Dibromoethane	107	17.732	17.732	(1.299)	7869	0.50000	0.5503
*	55 Chlorobenzene-d5	117	18.323	18.323	(1.000)	1373800	50.0000	
	56 Chlorobenzene	112	18.363	18.363	(1.002)	15371	0.50000	0.5086
	57 Ethylbenzene	91	18.441	18.441	(1.006)	26676	0.50000	0.5373
	58 1,1,1,2-Tetrachloroethane	131	18.461	18.461	(1.008)	5747	0.50000	0.5131
	59 m,p-Xylenes	106	18.599	18.599	(1.015)	18716	1.00000	1.0596
	60 o-Xylene	106	19.121	19.121	(1.044)	9143	0.50000	0.5068
	61 Styrene	104	19.151	19.151	(1.045)	15391	0.50000	0.4818
	62 Bromoform	173	19.436	19.436	(1.061)	5712	0.50000	0.5410
	63 Isopropylbenzene	105	19.555	19.555	(0.924)	22904	0.50000	0.6133

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC916.D
Report Date: 10-Mar-2006 08:54

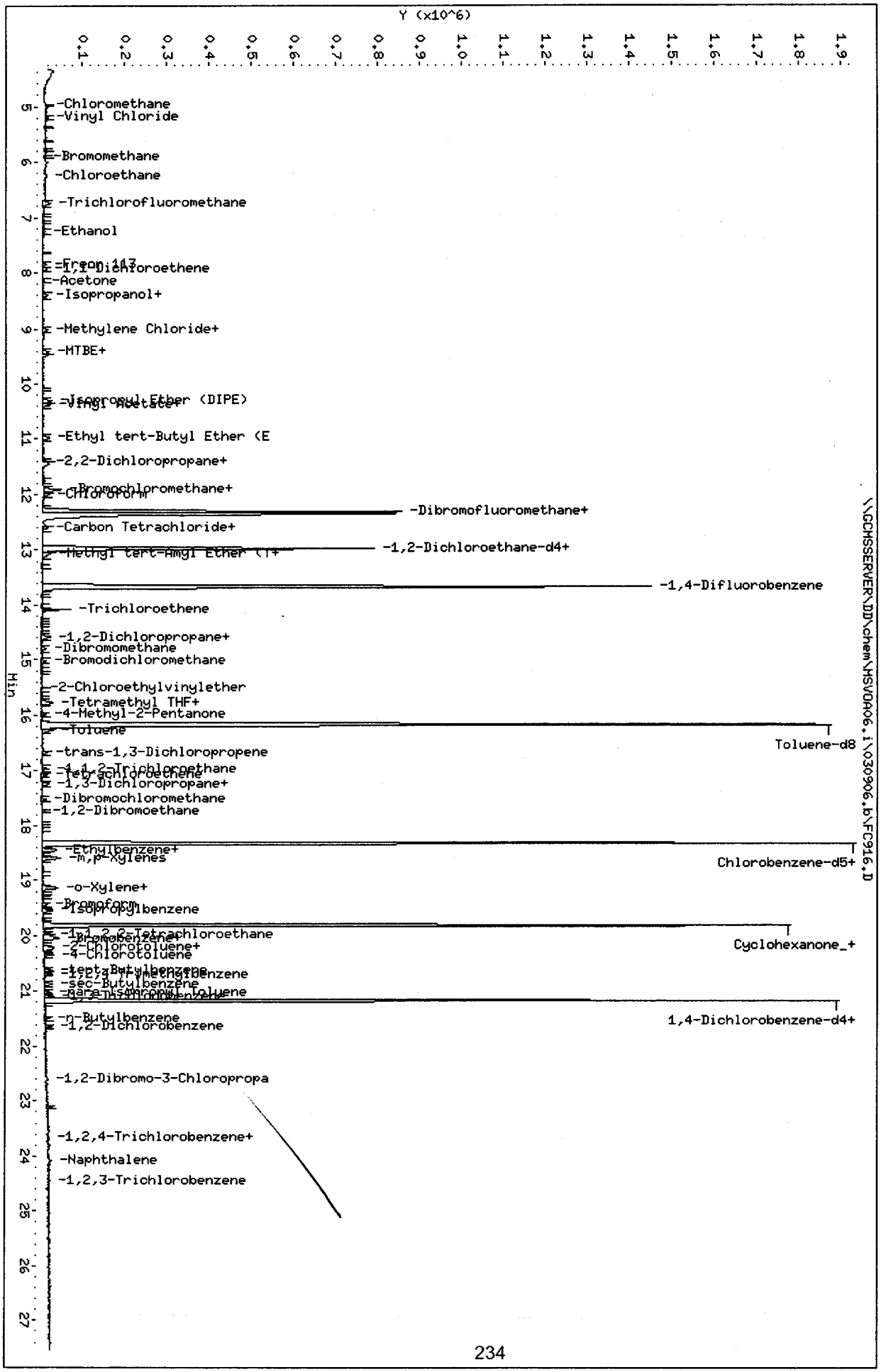
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone_	55	19.781	19.781	(0.935)	14831	5.00000	20.6723
$ 65 Bromofluorobenzene	95	19.811	19.811	(0.936)	782841	50.0000	52.9652
66 1,1,2,2-Tetrachloroethane	83	19.968	19.968	(0.944)	9722	0.50000	0.5318
67 Bromobenzene	156	20.008	20.008	(0.946)	6876	0.50000	0.5415
68 Propylbenzene	91	20.047	20.047	(0.947)	27857	0.50000	0.6030
69 1,2,3-Trichloropropane	75	20.047	20.047	(0.947)	8456	0.50000	0.5682
70 2-Chlorotoluene	91	20.205	20.205	(0.955)	21103	0.50000	0.5971
71 1,3,5-Trimethylbenzene	105	20.244	20.244	(0.957)	13559	0.50000	0.5004
72 4-Chlorotoluene	91	20.343	20.343	(0.961)	18784	0.50000	0.5726
73 tert-Butylbenzene	119	20.619	20.619	(0.974)	12043	0.50000	0.5486
74 1,2,4-Trimethylbenzene	105	20.688	20.688	(0.978)	12128	0.50000	0.4706
75 sec-Butylbenzene	105	20.865	20.865	(0.986)	16230	0.50000	0.5294
76 para-Isopropyl Toluene	119	21.013	21.013	(0.993)	10889	0.50000	0.5099
77 1,3-Dichlorobenzene	146	21.082	21.082	(0.996)	10486	0.50000	0.5343
* 78 1,4-Dichlorobenzene-d4	152	21.160	21.160	(1.000)	617267	50.0000	
79 1,4-Dichlorobenzene	146	21.180	21.180	(1.001)	10785	0.50000	0.5392
80 n-Butylbenzene	91	21.486	21.486	(1.015)	7827	0.50000	0.4712
81 1,2-Dichlorobenzene	146	21.643	21.643	(1.023)	9802	0.50000	0.5009
82 1,2-Dibromo-3-Chloropropane	75	22.599	22.599	(1.068)	2759	0.50000	1.2710
83 1,2,4-Trichlorobenzene	180	23.663	23.663	(1.118)	1817	0.50000	1.2909
84 Hexachlorobutadiene	225	23.801	23.801	(1.125)	733	0.50000	0.9167
85 Naphthalene	128	24.086	24.086	(1.138)	5610	0.50000	0.7117
86 1,2,3-Trichlorobenzene	180	24.451	24.451	(1.155)	614	0.50000	1.4570

QC Flag Legend

M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC916.D
Date : 09-MAR-2006 16:52
Client ID: DYNA P&T
Sample Info: ICAL,S2783,0.002/1000,S2844,0.001/1000,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA06.i
Operator: BO
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC917.D
Report Date: 10-Mar-2006 08:54

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC917.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 09-MAR-2006 17:27 MS Autotune Date: 24-FEB-2006 08:08
Operator : BO Inst ID: MSVOA06.i
Smp Info : ICAL,S2783,0.002/500,S2844,0.002/500,
Misc Info : S2410,0.001/500,2PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\826GOX6W.m
Meth Date : 10-Mar-2006 08:54 target Quant Type: ISTD
Cal Date : 09-MAR-2006 16:16 Cal File: FC915.D
Als bottle: 17 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.461	4.461	(0.361)	21040	2.00000	1.3165(M)
2 Chloromethane	50	4.983	4.983	(0.404)	29916	2.00000	1.8565
3 Vinyl Chloride	62	5.200	5.200	(0.421)	22083	2.00000	1.7272
4 Bromomethane	94	6.008	6.008	(0.487)	15777	2.00000	1.8678
5 Chloroethane	64	6.244	6.244	(0.506)	13486	2.00000	1.9140
6 Trichlorofluoromethane	101	6.746	6.746	(0.547)	24087	2.00000	1.3605
7 Ethanol	45	7.259	7.259	(0.588)	40036	200.000	213.7619
8 Freon 113	101	7.840	7.840	(0.635)	15911	2.00000	2.1520
9 1,1-Dichloroethene	96	7.929	7.929	(0.642)	21033	2.00000	1.9925
10 Acetone	43	8.145	8.145	(0.660)	15396	2.00000	2.3513
11 Isopropanol	45	8.352	8.352	(0.677)	20392	20.0000	20.3425
12 Carbon Disulfide	76	8.402	8.402	(0.681)	83752	2.00000	1.9483
13 Methylene Chloride	84	9.022	9.022	(0.731)	33351	2.00000	2.1677
14 tert-Butyl Alcohol (TBA)	59	9.150	9.150	(0.741)	29363	20.0000	21.2118
15 MTBE	73	9.416	9.416	(0.763)	86389	2.00000	2.0008
16 trans-1,2-Dichloroethene	96	9.475	9.475	(0.768)	26434	2.00000	2.0194

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC917.D
Report Date: 10-Mar-2006 08:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	10.313	10.313	(0.836)	118303	2.00000	2.0188
	19 Vinyl Acetate	43	10.392	10.392	(0.842)	72877	2.00000	1.8908
	18 1,1-Dichloroethane	63	10.372	10.372	(0.840)	48289	2.00000	1.9923
	20 Ethyl tert-Butyl Ether (ETBE)	59	10.983	10.983	(0.890)	83823	2.00000	1.9385
	21 2,2-Dichloropropane	77	11.416	11.416	(0.925)	31847	2.00000	2.0280
	22 cis-1,2-Dichloroethene	96	11.456	11.456	(0.928)	32742	2.00000	2.1249
	23 2-Butanone	43	11.475	11.475	(0.930)	18880	2.00000	2.0311
	24 Bromochloromethane	128	11.909	11.909	(0.965)	14004	2.00000	1.9473
	25 Tetrahydrofuran	42	11.919	11.919	(0.966)	111334	20.0000	21.8910
	26 Chloroform	83	11.997	11.997	(0.972)	48895	2.00000	2.0443
$	27 Dibromofluoromethane	113	12.303	12.303	(0.997)	605588	50.0000	49.7941
	28 1,1,1-Trichloroethane	97	12.313	12.313	(0.998)	29439	2.00000	1.8743
*	29 Pentafluorobenzene	168	12.342	12.342	(1.000)	912361	50.0000	
	30 Carbon Tetrachloride	117	12.549	12.549	(0.919)	19091	2.00000	1.7912
	31 1,1-Dichloropropene	75	12.598	12.598	(0.922)	29421	2.00000	1.9141
$	32 1,2-Dichloroethane-d4	65	12.963	12.963	(0.949)	659389	50.0000	50.0134
	33 Benzene	78	12.973	12.973	(0.950)	104239	2.00000	2.0419
	34 Methyl tert-Amyl Ether (TAME)	73	13.061	13.061	(0.956)	80106	2.00000	1.9761
	35 1,2-Dichloroethane	62	13.111	13.111	(0.960)	36797	2.00000	2.1521
*	36 1,4-Difluorobenzene	114	13.662	13.662	(1.000)	1633940	50.0000	
	37 Trichloroethene	95	14.096	14.096	(1.032)	26007	2.00000	2.1556
	38 1,2-Dichloropropane	63	14.579	14.579	(1.067)	29124	2.00000	1.9747
$	39 Trifluorotoluene	146	14.598	14.598	(1.068)	25494	2.00000	1.9177
	40 Dibromomethane	93	14.795	14.795	(1.083)	20156	2.00000	1.9746
	41 Bromodichloromethane	83	15.022	15.022	(1.100)	34761	2.00000	2.0051
	42 2-Chloroethylvinylether	63	15.514	15.514	(1.136)	1223	2.00000	1.2428
	43 Tetramethyl THF	43	15.761	15.761	(1.154)	63073	2.00000	1.9942
	44 cis-1,3-Dichloropropene	75	15.780	15.780	(1.155)	45941	2.00000	2.0742
	45 4-Methyl-2-Pentanone	43	15.987	15.987	(1.170)	35240	2.00000	1.9446
$	46 Toluene-d8	98	16.165	16.165	(1.183)	1795965	50.0000	50.4735
	47 Toluene	92	16.273	16.273	(1.191)	56887	2.00000	1.9781
	48 trans-1,3-Dichloropropene	75	16.667	16.667	(1.220)	42705	2.00000	2.0889
	49 1,1,2-Trichloroethane	85	16.953	16.953	(1.241)	15676	2.00000	2.1009
	50 Tetrachloroethene	166	17.081	17.081	(0.932)	18792	2.00000	1.9888
	51 1,3-Dichloropropane	76	17.229	17.229	(0.940)	46018	2.00000	2.0055
	52 2-Hexanone	43	17.248	17.248	(0.941)	26083	2.00000	2.0242
	53 Dibromochloromethane	129	17.514	17.514	(0.956)	24980	2.00000	1.9229
	54 1,2-Dibromoethane	107	17.731	17.731	(1.298)	27624	2.00000	1.9713
*	55 Chlorobenzene-d5	117	18.322	18.322	(1.000)	1371394	50.0000	
	56 Chlorobenzene	112	18.362	18.362	(1.002)	62399	2.00000	2.0686
	57 Ethylbenzene	91	18.440	18.440	(1.006)	94479	2.00000	1.9063
	58 1,1,1,2-Tetrachloroethane	131	18.460	18.460	(1.008)	24091	2.00000	2.1548
	59 m,p-Xylenes	106	18.598	18.598	(1.015)	73719	4.00000	4.1809
	60 o-Xylene	106	19.120	19.120	(1.044)	36107	2.00000	2.0052
	61 Styrene	104	19.150	19.150	(1.045)	64946	2.00000	2.0370
	62 Bromoform	173	19.435	19.435	(1.061)	20432	2.00000	1.9387
	63 Isopropylbenzene	105	19.544	19.544	(0.924)	77150	2.00000	1.9407

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC917.D
Report Date: 10-Mar-2006 08:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone_	55	19.780	19.780	(0.935)	54950	20.0000	40.0151
$ 65 Bromofluorobenzene	95	19.810	19.810	(0.936)	781360	50.0000	49.6599
66 1,1,2,2-Tetrachloroethane	83	19.967	19.967	(0.944)	41304	2.00000	2.1223
67 Bromobenzene	156	20.017	20.017	(0.946)	27516	2.00000	2.0358
68 Propylbenzene	91	20.046	20.046	(0.947)	98053	2.00000	1.9940
69 1,2,3-Trichloropropane	75	20.056	20.056	(0.948)	33801	2.00000	2.1337
70 2-Chlorotoluene	91	20.204	20.204	(0.955)	79295	2.00000	2.1076
71 1,3,5-Trimethylbenzene	105	20.243	20.243	(0.957)	59073	2.00000	2.0479
72 4-Chlorotoluene	91	20.342	20.342	(0.961)	72275	2.00000	2.0696
73 tert-Butylbenzene	119	20.618	20.618	(0.974)	45593	2.00000	1.9513
74 1,2,4-Trimethylbenzene	105	20.687	20.687	(0.978)	55119	2.00000	2.0091
75 sec-Butylbenzene	105	20.864	20.864	(0.986)	64131	2.00000	1.9653
76 para-Isopropyl Toluene	119	21.012	21.012	(0.993)	42129	2.00000	1.8535
77 1,3-Dichlorobenzene	146	21.081	21.081	(0.996)	41352	2.00000	1.9796
* 78 1,4-Dichlorobenzene-d4	152	21.159	21.159	(1.000)	657106	50.0000	
79 1,4-Dichlorobenzene	146	21.189	21.189	(1.001)	42499	2.00000	1.9959
80 n-Butylbenzene	91	21.494	21.494	(1.016)	30738	2.00000	1.7385
81 1,2-Dichlorobenzene	146	21.642	21.642	(1.023)	42250	2.00000	2.0282
82 1,2-Dibromo-3-Chloropropane	75	22.598	22.598	(1.068)	6779	2.00000	2.3205
83 1,2,4-Trichlorobenzene	180	23.672	23.672	(1.119)	6572	2.00000	2.1665
84 Hexachlorobutadiene	225	23.790	23.790	(1.124)	3119	2.00000	1.8479
85 Naphthalene	128	24.075	24.075	(1.138)	28953	2.00000	1.9739
86 1,2,3-Trichlorobenzene	180	24.440	24.440	(1.155)	5198	2.00000	2.3272

QC Flag Legend

M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC917.D
Date : 09-MAR-2006 17:27
Client ID: DYNA P&T
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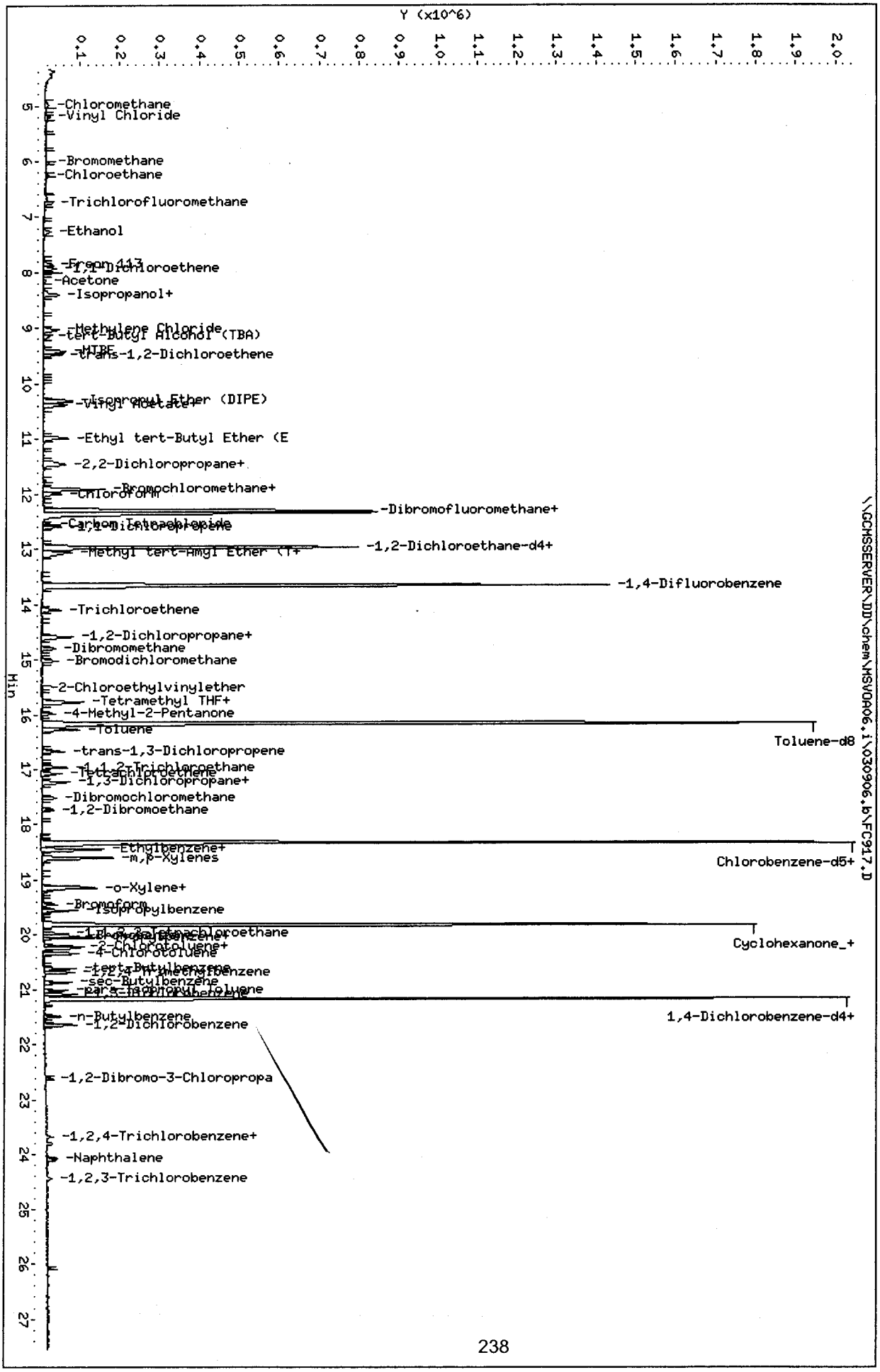
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA06.i
Operator: BO
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC918.D
Report Date: 10-Mar-2006 08:54

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC918.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 09-MAR-2006 18:02 MS Autotune Date: 24-FEB-2006 08:08
Operator : BO Inst ID: MSVOA06.i
Smp Info : ICAL,S2783,0.005/500,S2844,0.005/500,
Misc Info : S2410,0.0025/500,5PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\826GOX6W.m
Meth Date : 10-Mar-2006 08:54 target Quant Type: ISTD
Cal Date : 09-MAR-2006 16:16 Cal File: FC915.D
Als bottle: 18 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.467	4.467	(0.362)	78773	5.00000	4.9919
2 Chloromethane	50	4.970	4.970	(0.403)	79826	5.00000	5.0171
3 Vinyl Chloride	62	5.187	5.187	(0.420)	59741	5.00000	4.7325
4 Bromomethane	94	6.004	6.004	(0.487)	33995	5.00000	4.0760(M)
5 Chloroethane	64	6.241	6.241	(0.506)	33031	5.00000	4.7478
6 Trichlorofluoromethane	101	6.743	6.743	(0.546)	85811	5.00000	4.9090
7 Ethanol	45	7.255	7.255	(0.588)	91710	500.000	495.9173
8 Freon 113	101	7.847	7.847	(0.636)	37272	5.00000	4.4397
9 1,1-Dichloroethene	96	7.925	7.925	(0.642)	46197	5.00000	4.4323
10 Acetone	43	8.142	8.142	(0.660)	33832	5.00000	5.2330
11 Isopropanol	45	8.349	8.349	(0.677)	49381	50.0000	49.8906
12 Carbon Disulfide	76	8.398	8.398	(0.681)	205074	5.00000	4.8316
13 Methylene Chloride	84	9.019	9.019	(0.731)	75977	5.00000	5.0013
14 tert-Butyl Alcohol (TBA)	59	9.147	9.147	(0.741)	66475	50.0000	48.6351
15 MTBE	73	9.413	9.413	(0.763)	209870	5.00000	4.9229
16 trans-1,2-Dichloroethene	96	9.482	9.482	(0.768)	58574	5.00000	4.5318

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC918.D
Report Date: 10-Mar-2006 08:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	10.300	10.300	(0.835)	289331	5.00000	5.0006
	19 Vinyl Acetate	43	10.388	10.388	(0.842)	187938	5.00000	4.9384
	18 1,1-Dichloroethane	63	10.369	10.369	(0.840)	116920	5.00000	4.8856
	20 Ethyl tert-Butyl Ether (ETBE)	59	10.979	10.979	(0.890)	210742	5.00000	4.9359
	21 2,2-Dichloropropane	77	11.413	11.413	(0.925)	73725	5.00000	4.7549
	22 cis-1,2-Dichloroethene	96	11.452	11.452	(0.928)	67528	5.00000	4.4386
	23 2-Butanone	43	11.472	11.472	(0.930)	47479	5.00000	5.1731
	24 Bromochloromethane	128	11.905	11.905	(0.965)	34027	5.00000	4.7922
	25 Tetrahydrofuran	42	11.915	11.915	(0.966)	261479	50.0000	52.0702
	26 Chloroform	83	12.004	12.004	(0.973)	111047	5.00000	4.7023
$	27 Dibromofluoromethane	113	12.299	12.299	(0.997)	606336	50.0000	50.4925
	28 1,1,1-Trichloroethane	97	12.309	12.309	(0.998)	72592	5.00000	4.6807
*	29 Pentafluorobenzene	168	12.339	12.339	(1.000)	900853	50.0000	
	30 Carbon Tetrachloride	117	12.556	12.556	(0.919)	47276	5.00000	4.5022
	31 1,1-Dichloropropene	75	12.605	12.605	(0.923)	71230	5.00000	4.7035
$	32 1,2-Dichloroethane-d4	65	12.969	12.969	(0.950)	651456	50.0000	50.1517
	33 Benzene	78	12.969	12.969	(0.950)	247750	5.00000	4.9258
	34 Methyl tert-Amyl Ether (TAME)	73	13.058	13.058	(0.956)	197896	5.00000	4.9550
	35 1,2-Dichloroethane	62	13.107	13.107	(0.960)	84951	5.00000	5.0430
*	36 1,4-Difluorobenzene	114	13.659	13.659	(1.000)	1609829	50.0000	
	37 Trichloroethene	95	14.092	14.092	(1.032)	60344	5.00000	5.0766
	38 1,2-Dichloropropane	63	14.585	14.585	(1.068)	71557	5.00000	4.9245
$	39 Trifluorotoluene	146	14.605	14.605	(1.069)	62174	5.00000	4.7469
	40 Dibromomethane	93	14.802	14.802	(1.084)	52839	5.00000	5.2540
	41 Bromodichloromethane	83	15.019	15.019	(1.100)	83343	5.00000	4.8794
	42 2-Chloroethylvinylether	63	15.501	15.501	(1.135)	4662	5.00000	4.8087
	43 Tetramethyl THF	43	15.757	15.757	(1.154)	162373	5.00000	5.2107
	44 cis-1,3-Dichloropropene	75	15.777	15.777	(1.155)	107793	5.00000	4.9396
	45 4-Methyl-2-Pentanone	43	15.984	15.984	(1.170)	91656	5.00000	5.1336
$	46 Toluene-d8	98	16.161	16.161	(1.183)	1765572	50.0000	50.3625
	47 Toluene	92	16.270	16.270	(1.191)	139693	5.00000	4.9304
	48 trans-1,3-Dichloropropene	75	16.674	16.674	(1.221)	103017	5.00000	5.1146
	49 1,1,2-Trichloroethane	85	16.959	16.959	(1.242)	36473	5.00000	4.9613
	50 Tetrachloroethene	166	17.078	17.078	(0.932)	44436	5.00000	4.7626
	51 1,3-Dichloropropane	76	17.225	17.225	(0.940)	112900	5.00000	4.9828
	52 2-Hexanone	43	17.255	17.255	(0.942)	62003	5.00000	4.8731
	53 Dibromochloromethane	129	17.521	17.521	(0.956)	60342	5.00000	4.7042
	54 1,2-Dibromoethane	107	17.728	17.728	(1.298)	70381	5.00000	5.0978
*	55 Chlorobenzene-d5	117	18.319	18.319	(1.000)	1354184	50.0000	
	56 Chlorobenzene	112	18.358	18.358	(1.002)	147429	5.00000	4.9496
	57 Ethylbenzene	91	18.437	18.437	(1.006)	243149	5.00000	4.9684
	58 1,1,1,2-Tetrachloroethane	131	18.457	18.457	(1.008)	53387	5.00000	4.8359
	59 m,p-Xylenes	106	18.595	18.595	(1.015)	175671	10.0000	10.0898
	60 o-Xylene	106	19.127	19.127	(1.044)	90274	5.00000	5.0772
	61 Styrene	104	19.146	19.146	(1.045)	157187	5.00000	4.9928
	62 Bromoform	173	19.442	19.442	(1.061)	49671	5.00000	4.7731
	63 Isopropylbenzene	105	19.550	19.550	(0.924)	189355	5.00000	4.8995

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC918.D
Report Date: 10-Mar-2006 08:54

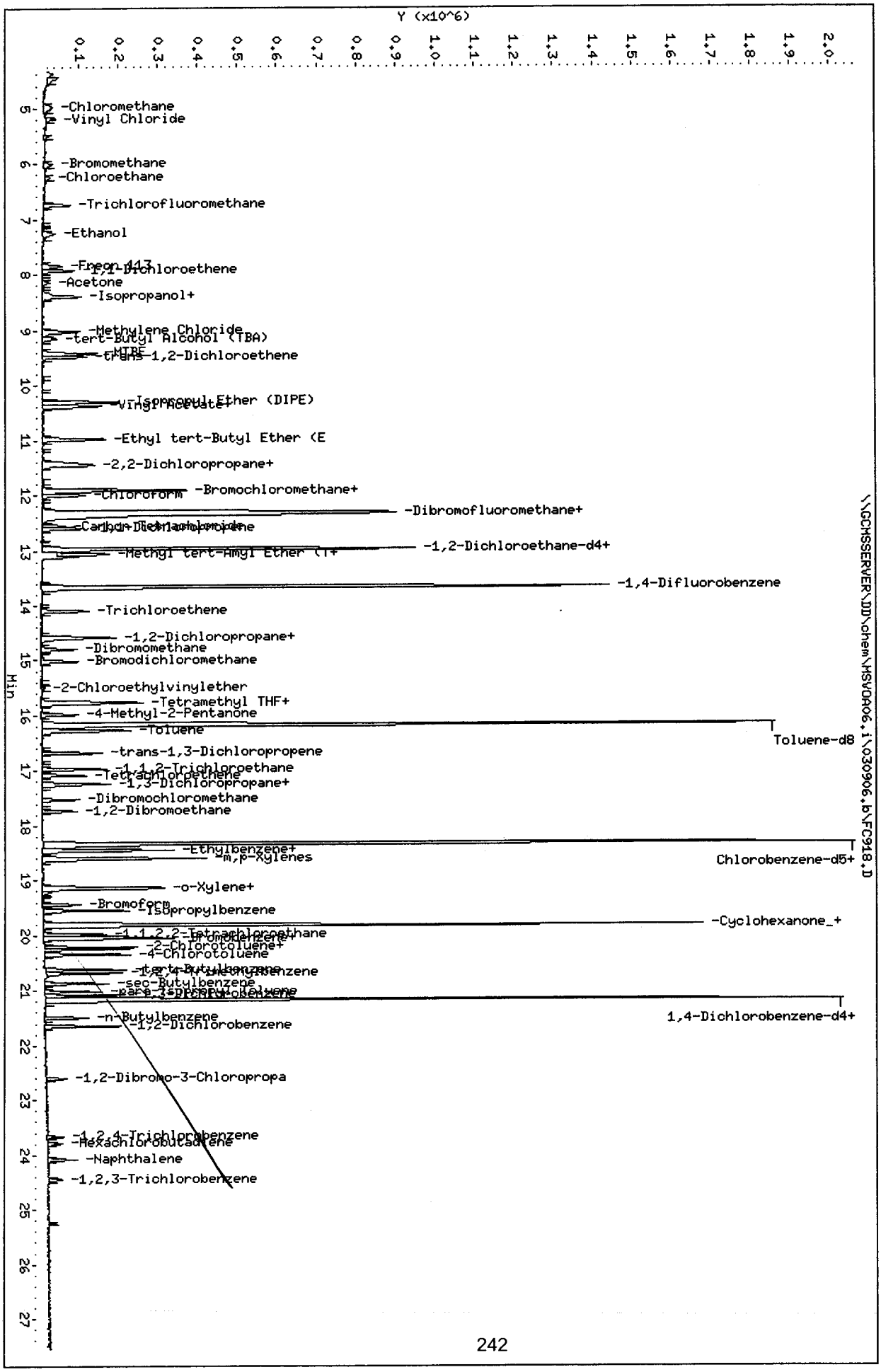
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone_	55	19.777	19.777	(0.935)	112945	50.0000	70.0409
$ 65 Bromofluorobenzene	95	19.806	19.806	(0.936)	772817	50.0000	50.5211
66 1,1,2,2-Tetrachloroethane	83	19.974	19.974	(0.944)	98368	5.00000	5.1991
67 Bromobenzene	156	20.013	20.013	(0.946)	68565	5.00000	5.2180
68 Propylbenzene	91	20.043	20.043	(0.947)	233743	5.00000	4.8893
69 1,2,3-Trichloropropane	75	20.053	20.053	(0.948)	85992	5.00000	5.5835
70 2-Chlorotoluene	91	20.210	20.210	(0.955)	181754	5.00000	4.9692
71 1,3,5-Trimethylbenzene	105	20.240	20.240	(0.957)	138551	5.00000	4.9407
72 4-Chlorotoluene	91	20.338	20.338	(0.961)	170592	5.00000	5.0246
73 tert-Butylbenzene	119	20.614	20.614	(0.974)	111709	5.00000	4.9176
74 1,2,4-Trimethylbenzene	105	20.683	20.683	(0.978)	131581	5.00000	4.9334
75 sec-Butylbenzene	105	20.870	20.870	(0.986)	150093	5.00000	4.7312
76 para-Isopropyl Toluene	119	21.018	21.018	(0.993)	103981	5.00000	4.7055
77 1,3-Dichlorobenzene	146	21.077	21.077	(0.996)	101840	5.00000	5.0146
* 78 1,4-Dichlorobenzene-d4	152	21.156	21.156	(1.000)	638842	50.0000	
79 1,4-Dichlorobenzene	146	21.186	21.186	(1.001)	104874	5.00000	5.0662
80 n-Butylbenzene	91	21.491	21.491	(1.016)	79116	5.00000	4.6026
81 1,2-Dichlorobenzene	146	21.649	21.649	(1.023)	97458	5.00000	4.8124
82 1,2-Dibromo-3-Chloropropane	75	22.604	22.604	(1.068)	16377	5.00000	5.0919
83 1,2,4-Trichlorobenzene	180	23.668	23.668	(1.119)	19724	5.00000	4.7340
84 Hexachlorobutadiene	225	23.796	23.796	(1.125)	10550	5.00000	4.9072
85 Naphthalene	128	24.082	24.082	(1.138)	78907	5.00000	4.8199
86 1,2,3-Trichlorobenzene	180	24.447	24.447	(1.156)	16672	5.00000	4.5986

QC Flag Legend

M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC918.D
Date : 09-MAR-2006 18:02
Client ID: DYNA P&T
Sample Info: ICAL,S2783,0.005/500,S2844,0.005/500,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA06.i
Operator: BO
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC919.D
Report Date: 10-Mar-2006 08:54

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC919.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 09-MAR-2006 18:37 MS Autotune Date: 24-FEB-2006 08:08
Operator : BO Inst ID: MSVOA06.i
Smp Info : ICAL,S2783,0.002/100,S2844,0.002/100,
Misc Info : S2410,0.001/100,10PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\826GOX6W.m
Meth Date : 10-Mar-2006 08:54 target Quant Type: ISTD
Cal Date : 09-MAR-2006 16:16 Cal File: FC915.D
Als bottle: 19 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.462	4.462	(0.362)	162320	10.0000	10.0383
2 Chloromethane	50	4.964	4.964	(0.402)	160950	10.0000	9.8717
3 Vinyl Chloride	62	5.201	5.201	(0.421)	132244	10.0000	10.2231
4 Bromomethane	94	6.009	6.009	(0.487)	82210	10.0000	9.6192
5 Chloroethane	64	6.245	6.245	(0.506)	73172	10.0000	10.2639
6 Trichlorofluoromethane	101	6.748	6.748	(0.547)	186625	10.0000	10.4188
7 Ethanol	45	7.270	7.270	(0.589)	195107	1000.00	1029.5736
8 Freon 113	101	7.851	7.851	(0.636)	67890	10.0000	7.4943
9 1,1-Dichloroethene	96	7.930	7.930	(0.642)	92519	10.0000	8.6624
10 Acetone	43	8.147	8.147	(0.660)	62191	10.0000	9.3874
11 Isopropanol	45	8.353	8.353	(0.677)	111348	100.000	109.7826
12 Carbon Disulfide	76	8.403	8.403	(0.681)	407379	10.0000	9.3664
13 Methylene Chloride	84	9.023	9.023	(0.731)	162466	10.0000	10.4366
14 tert-Butyl Alcohol (TBA)	59	9.151	9.151	(0.741)	150434	100.000	107.4062
15 MTBE	73	9.417	9.417	(0.763)	457112	10.0000	10.4638
16 trans-1,2-Dichloroethene	96	9.486	9.486	(0.769)	127382	10.0000	9.6177

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC919.D
Report Date: 10-Mar-2006 08:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	10.304	10.304	(0.835)	623709	10.0000	10.5196
	19 Vinyl Acetate	43	10.393	10.393	(0.842)	438991	10.0000	11.2569
	18 1,1-Dichloroethane	63	10.373	10.373	(0.840)	258131	10.0000	10.5260
	20 Ethyl tert-Butyl Ether (ETBE)	59	10.974	10.974	(0.889)	462005	10.0000	10.5599
	21 2,2-Dichloropropane	77	11.417	11.417	(0.925)	149180	10.0000	9.3893
	22 cis-1,2-Dichloroethene	96	11.467	11.467	(0.929)	153400	10.0000	9.8396
	23 2-Butanone	43	11.476	11.476	(0.930)	99260	10.0000	10.5540
	24 Bromochloromethane	128	11.910	11.910	(0.965)	77055	10.0000	10.5902
	25 Tetrahydrofuran	42	11.920	11.920	(0.966)	549320	100.000	106.7504
	26 Chloroform	83	11.999	11.999	(0.972)	254380	10.0000	10.5119
$	27 Dibromofluoromethane	113	12.304	12.304	(0.997)	638492	50.0000	51.8873
	28 1,1,1-Trichloroethane	97	12.314	12.314	(0.998)	148553	10.0000	9.3476
*	29 Pentafluorobenzene	168	12.343	12.343	(1.000)	923128	50.0000	
	30 Carbon Tetrachloride	117	12.550	12.550	(0.919)	88249	10.0000	7.9913
	31 1,1-Dichloropropene	75	12.600	12.600	(0.922)	134677	10.0000	8.4562
$	32 1,2-Dichloroethane-d4	65	12.974	12.974	(0.950)	696978	50.0000	51.0200
	33 Benzene	78	12.974	12.974	(0.950)	524127	10.0000	9.9088
	34 Methyl tert-Amyl Ether (TAME)	73	13.063	13.063	(0.956)	435841	10.0000	10.3767
	35 1,2-Dichloroethane	62	13.112	13.112	(0.960)	184781	10.0000	10.4303
*	36 1,4-Difluorobenzene	114	13.663	13.663	(1.000)	1693008	50.0000	
	37 Trichloroethene	95	14.097	14.097	(1.032)	116605	10.0000	9.3278
	38 1,2-Dichloropropane	63	14.580	14.580	(1.067)	159124	10.0000	10.4129
$	39 Trifluorotoluene	146	14.609	14.609	(1.069)	115225	10.0000	8.3652
	40 Dibromomethane	93	14.806	14.806	(1.084)	112074	10.0000	10.5965
	41 Bromodichloromethane	83	15.023	15.023	(1.099)	188370	10.0000	10.4866
	42 2-Chloroethylvinylether	63	15.506	15.506	(1.135)	14400	10.0000	14.1236
	43 Tetramethyl THF	43	15.762	15.762	(1.154)	353951	10.0000	10.8005
	44 cis-1,3-Dichloropropene	75	15.782	15.782	(1.155)	240846	10.0000	10.4946
	45 4-Methyl-2-Pentanone	43	15.988	15.988	(1.170)	193279	10.0000	10.2936
$	46 Toluene-d8	98	16.166	16.166	(1.183)	1804012	50.0000	48.9308
	47 Toluene	92	16.274	16.274	(1.191)	290993	10.0000	9.7658
	48 trans-1,3-Dichloropropene	75	16.678	16.678	(1.221)	217487	10.0000	10.2673
	49 1,1,2-Trichloroethane	85	16.964	16.964	(1.242)	80286	10.0000	10.3845
	50 Tetrachloroethene	166	17.082	17.082	(0.932)	81298	10.0000	8.5839
	51 1,3-Dichloropropane	76	17.230	17.230	(0.940)	239870	10.0000	10.4291
	52 2-Hexanone	43	17.249	17.249	(0.941)	137141	10.0000	10.6182
	53 Dibromochloromethane	129	17.525	17.525	(0.956)	134817	10.0000	10.3538
	54 1,2-Dibromoethane	107	17.732	17.732	(1.298)	144033	10.0000	9.9199
*	55 Chlorobenzene-d5	117	18.323	18.323	(1.000)	1374639	50.0000	
	56 Chlorobenzene	112	18.363	18.363	(1.002)	303254	10.0000	10.0297
	57 Ethylbenzene	91	18.442	18.442	(1.006)	498157	10.0000	10.0278
	58 1,1,1,2-Tetrachloroethane	131	18.461	18.461	(1.008)	112330	10.0000	10.0238
	59 m,p-Xylenes	106	18.599	18.599	(1.015)	342990	20.0000	19.4067
	60 o-Xylene	106	19.121	19.121	(1.044)	184583	10.0000	10.2269
	61 Styrene	104	19.151	19.151	(1.045)	335951	10.0000	10.5122
	62 Bromoform	173	19.437	19.437	(1.061)	103811	10.0000	9.8273
	63 Isopropylbenzene	105	19.555	19.555	(0.924)	357599	10.0000	8.7761

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC919.D
Report Date: 10-Mar-2006 08:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone_	55	19.781	19.781	(0.935)	116724	100.000	68.9181
$ 65 Bromofluorobenzene	95	19.811	19.811	(0.936)	794360	50.0000	49.2538
66 1,1,2,2-Tetrachloroethane	83	19.969	19.969	(0.944)	204476	10.0000	10.2504
67 Bromobenzene	156	20.018	20.018	(0.946)	134950	10.0000	9.7409
68 Propylbenzene	91	20.047	20.047	(0.947)	439689	10.0000	8.7234
69 1,2,3-Trichloropropane	75	20.057	20.057	(0.948)	165589	10.0000	10.1977
70 2-Chlorotoluene	91	20.205	20.205	(0.955)	369198	10.0000	9.5739
71 1,3,5-Trimethylbenzene	105	20.244	20.244	(0.957)	273367	10.0000	9.2459
72 4-Chlorotoluene	91	20.343	20.343	(0.961)	346962	10.0000	9.6929
73 tert-Butylbenzene	119	20.619	20.619	(0.974)	203161	10.0000	8.4827
74 1,2,4-Trimethylbenzene	105	20.688	20.688	(0.978)	259422	10.0000	9.2255
75 sec-Butylbenzene	105	20.865	20.865	(0.986)	272296	10.0000	8.1410
76 para-Isopropyl Toluene	119	21.013	21.013	(0.993)	198208	10.0000	8.5075
77 1,3-Dichlorobenzene	146	21.082	21.082	(0.996)	211854	10.0000	9.8943
* 78 1,4-Dichlorobenzene-d4	152	21.161	21.161	(1.000)	673547	50.0000	
79 1,4-Dichlorobenzene	146	21.190	21.190	(1.001)	211675	10.0000	9.6986
80 n-Butylbenzene	91	21.486	21.486	(1.015)	150204	10.0000	8.2879
81 1,2-Dichlorobenzene	146	21.643	21.643	(1.023)	214495	10.0000	10.0459
82 1,2-Dibromo-3-Chloropropane	75	22.599	22.599	(1.068)	34761	10.0000	9.8633
83 1,2,4-Trichlorobenzene	180	23.673	23.673	(1.119)	44065	10.0000	8.9110
84 Hexachlorobutadiene	225	23.791	23.791	(1.124)	20165	10.0000	8.3603
85 Naphthalene	128	24.087	24.087	(1.138)	173446	10.0000	9.5513
86 1,2,3-Trichlorobenzene	180	24.451	24.451	(1.155)	41527	10.0000	8.9681

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC919.D
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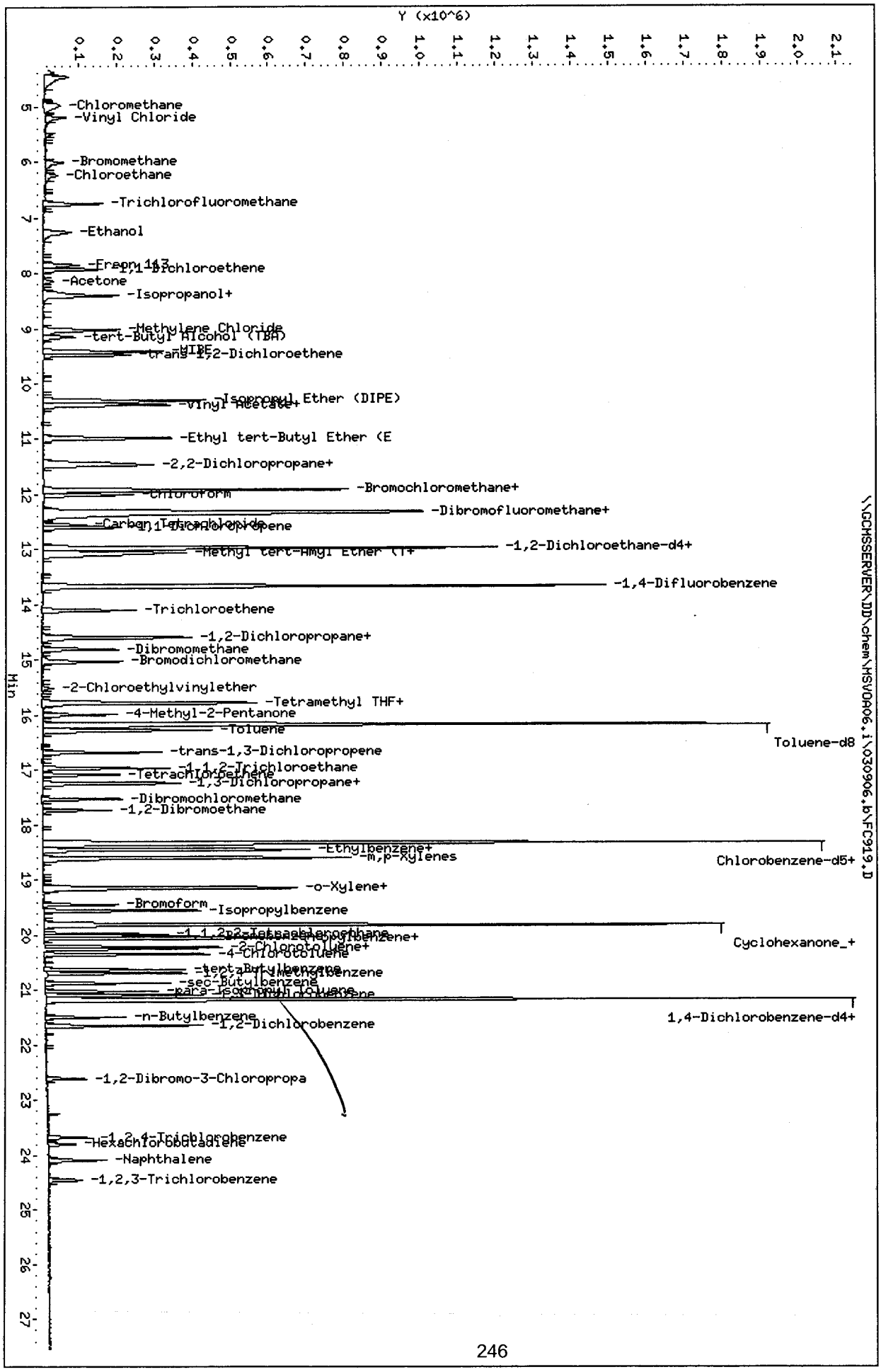
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA06.i
Operator: BO
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC920.D
Report Date: 10-Mar-2006 08:54

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC920.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 09-MAR-2006 19:12 MS Autotune Date: 24-FEB-2006 08:08
Operator : BO Inst ID: MSVOA06.i
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Misc Info : S2410,0.002/100,20PPB, NP NL
Comment :
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Meth Date : 10-Mar-2006 08:54 target Quant Type: ISTD
Cal Date : 09-MAR-2006 16:16 Cal File: FC915.D
Als bottle: 20 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.477	4.477	(0.363)	353923	20.0000	20.8940
2 Chloromethane	50	4.989	4.989	(0.404)	332702	20.0000	19.4798
3 Vinyl Chloride	62	5.206	5.206	(0.422)	288234	20.0000	21.2706
4 Bromomethane	94	6.014	6.014	(0.487)	169368	20.0000	18.9178
5 Chloroethane	64	6.250	6.250	(0.506)	145094	20.0000	19.4287
6 Trichlorofluoromethane	101	6.753	6.753	(0.547)	393603	20.0000	20.9765
7 Ethanol	45	7.265	7.265	(0.588)	406106	2000.00	2045.7315
8 Freon 113	101	7.856	7.856	(0.636)	244404	20.0000	24.0837
9 1,1-Dichloroethene	96	7.935	7.935	(0.643)	236641	20.0000	21.1507
10 Acetone	43	8.152	8.152	(0.660)	129948	20.0000	18.7247
11 Isopropanol	45	8.358	8.358	(0.677)	215606	200.000	202.9255
12 Carbon Disulfide	76	8.408	8.408	(0.681)	981204	20.0000	21.5356
13 Methylene Chloride	84	9.028	9.028	(0.731)	322235	20.0000	19.7604
14 tert-Butyl Alcohol (TBA)	59	9.156	9.156	(0.742)	284352	200.000	193.8047
15 MTBE	73	9.422	9.422	(0.763)	918697	20.0000	20.0754
16 trans-1,2-Dichloroethene	96	9.482	9.482	(0.768)	282601	20.0000	20.3687

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC920.D
Report Date: 10-Mar-2006 08:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	10.309	10.309	(0.835)	1276356	20.0000	20.5501
	19 Vinyl Acetate	43	10.398	10.398	(0.842)	918708	20.0000	22.4888
	19 1,1-Dichloroethane	63	10.378	10.378	(0.840)	536109	20.0000	20.8690
	20 Ethyl tert-Butyl Ether (ETBE)	59	10.979	10.979	(0.889)	931789	20.0000	20.3309
	21 2,2-Dichloropropane	77	11.422	11.422	(0.925)	344589	20.0000	20.7037
	22 cis-1,2-Dichloroethene	96	11.462	11.462	(0.928)	315098	20.0000	19.2941
	23 2-Butanone	43	11.472	11.472	(0.929)	198585	20.0000	20.1565
	24 Bromochloromethane	128	11.915	11.915	(0.965)	155963	20.0000	20.4622
	25 Tetrahydrofuran	42	11.915	11.915	(0.965)	1070950	200.000	198.6727
	26 Chloroform	83	12.004	12.004	(0.972)	515462	20.0000	20.3340
$	27 Dibromofluoromethane	113	12.309	12.309	(0.997)	650640	50.0000	50.4744
	28 1,1,1-Trichloroethane	97	12.319	12.319	(0.998)	357412	20.0000	21.4691
*	29 Pentafluorobenzene	168	12.348	12.348	(1.000)	967024	50.0000	
	30 Carbon Tetrachloride	117	12.555	12.555	(0.919)	261566	20.0000	23.3272
	31 1,1-Dichloropropene	75	12.605	12.605	(0.922)	357141	20.0000	22.0850
$	32 1,2-Dichloroethane-d4	65	12.969	12.969	(0.949)	721063	50.0000	51.9837
	33 Benzene	78	12.979	12.979	(0.950)	1112684	20.0000	20.7172
	34 Methyl tert-Amyl Ether (TAME)	73	13.068	13.068	(0.956)	881879	20.0000	20.6783
	35 1,2-Dichloroethane	62	13.107	13.107	(0.959)	369547	20.0000	20.5439
*	36 1,4-Difluorobenzene	114	13.669	13.669	(1.000)	1719042	50.0000	
	37 Trichloroethene	95	14.102	14.102	(1.032)	265105	20.0000	20.8859
	38 1,2-Dichloropropane	63	14.585	14.585	(1.067)	320523	20.0000	20.6570
$	39 Trifluorotoluene	146	14.604	14.604	(1.068)	331813	20.0000	23.7244
	40 Dibromomethane	93	14.801	14.801	(1.083)	221037	20.0000	20.5824
	41 Bromodichloromethane	83	15.028	15.028	(1.099)	381356	20.0000	20.9086
	42 2-Chloroethylvinylether	63	15.511	15.511	(1.135)	36832	20.0000	35.5780
	43 Tetramethyl THF	43	15.757	15.757	(1.153)	703933	20.0000	21.1547
	44 cis-1,3-Dichloropropene	75	15.787	15.787	(1.155)	495978	20.0000	21.2845
	45 4-Methyl-2-Pentanone	43	15.984	15.984	(1.169)	394302	20.0000	20.6817
$	46 Toluene-d8	98	16.161	16.161	(1.182)	1910840	50.0000	51.0434
	47 Toluene	92	16.269	16.269	(1.190)	636238	20.0000	21.0291
	48 trans-1,3-Dichloropropene	75	16.673	16.673	(1.220)	451679	20.0000	21.0003
	49 1,1,2-Trichloroethane	85	16.959	16.959	(1.241)	155880	20.0000	19.8569
	50 Tetrachloroethene	166	17.077	17.077	(0.932)	216726	20.0000	21.6768
	51 1,3-Dichloropropane	76	17.225	17.225	(0.940)	497263	20.0000	20.4803
	52 2-Hexanone	43	17.255	17.255	(0.942)	273285	20.0000	20.0439
	53 Dibromochloromethane	129	17.521	17.521	(0.956)	284278	20.0000	20.6813
	54 1,2-Dibromoethane	107	17.727	17.727	(1.297)	305589	20.0000	20.7280
*	55 Chlorobenzene-d5	117	18.319	18.319	(1.000)	1451139	50.0000	
	56 Chlorobenzene	112	18.358	18.358	(1.002)	657367	20.0000	20.5953
	57 Ethylbenzene	91	18.437	18.437	(1.006)	1127351	20.0000	21.4970
	58 1,1,1,2-Tetrachloroethane	131	18.456	18.456	(1.008)	239177	20.0000	20.2180
	59 m,p-Xylenes	106	18.594	18.594	(1.015)	774973	40.0000	41.5373
	60 o-Xylene	106	19.126	19.126	(1.044)	389043	20.0000	20.4189
	61 Styrene	104	19.146	19.146	(1.045)	693006	20.0000	20.5417
	62 Bromoform	173	19.442	19.442	(1.061)	219483	20.0000	19.6821
	63 Isopropylbenzene	105	19.550	19.550	(0.924)	887116	20.0000	20.8720

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC920.D
Report Date: 10-Mar-2006 08:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone_	55	19.777	19.777	(0.935)	279504	200.000	140.2284
$ 65 Bromofluorobenzene	95	19.816	19.816	(0.937)	826817	50.0000	49.1484
66 1,1,2,2-Tetrachloroethane	83	19.974	19.974	(0.944)	429677	20.0000	20.6500
67 Bromobenzene	156	20.013	20.013	(0.946)	292992	20.0000	20.2750
68 Propylbenzene	91	20.043	20.043	(0.947)	1110160	20.0000	21.1157
69 1,2,3-Trichloropropane	75	20.062	20.062	(0.948)	336938	20.0000	19.8931
70 2-Chlorotoluene	91	20.210	20.210	(0.955)	811219	20.0000	20.1672
71 1,3,5-Trimethylbenzene	105	20.240	20.240	(0.957)	646394	20.0000	20.9594
72 4-Chlorotoluene	91	20.338	20.338	(0.961)	754604	20.0000	20.2101
73 tert-Butylbenzene	119	20.614	20.614	(0.974)	524060	20.0000	20.9775
74 1,2,4-Trimethylbenzene	105	20.683	20.683	(0.978)	599018	20.0000	20.4222
75 sec-Butylbenzene	105	20.870	20.870	(0.986)	772600	20.0000	22.1448
76 para-Isopropyl Toluene	119	21.018	21.018	(0.993)	533111	20.0000	21.9371
77 1,3-Dichlorobenzene	146	21.077	21.077	(0.996)	449247	20.0000	20.1147
* 78 1,4-Dichlorobenzene-d4	152	21.156	21.156	(1.000)	702570	50.0000	
79 1,4-Dichlorobenzene	146	21.185	21.185	(1.001)	459028	20.0000	20.1631
80 n-Butylbenzene	91	21.491	21.491	(1.016)	435018	20.0000	23.0119
81 1,2-Dichlorobenzene	146	21.648	21.648	(1.023)	457045	20.0000	20.5215
82 1,2-Dibromo-3-Chloropropane	75	22.604	22.604	(1.068)	67400	20.0000	18.2160
83 1,2,4-Trichlorobenzene	180	23.678	23.678	(1.119)	114984	20.0000	20.2947
84 Hexachlorobutadiene	225	23.796	23.796	(1.125)	61146	20.0000	22.6092
85 Naphthalene	128	24.082	24.082	(1.138)	408806	20.0000	20.6500
86 1,2,3-Trichlorobenzene	180	24.446	24.446	(1.156)	107903	20.0000	19.8278

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC920.D
Date : 09-MAR-2006 19:12
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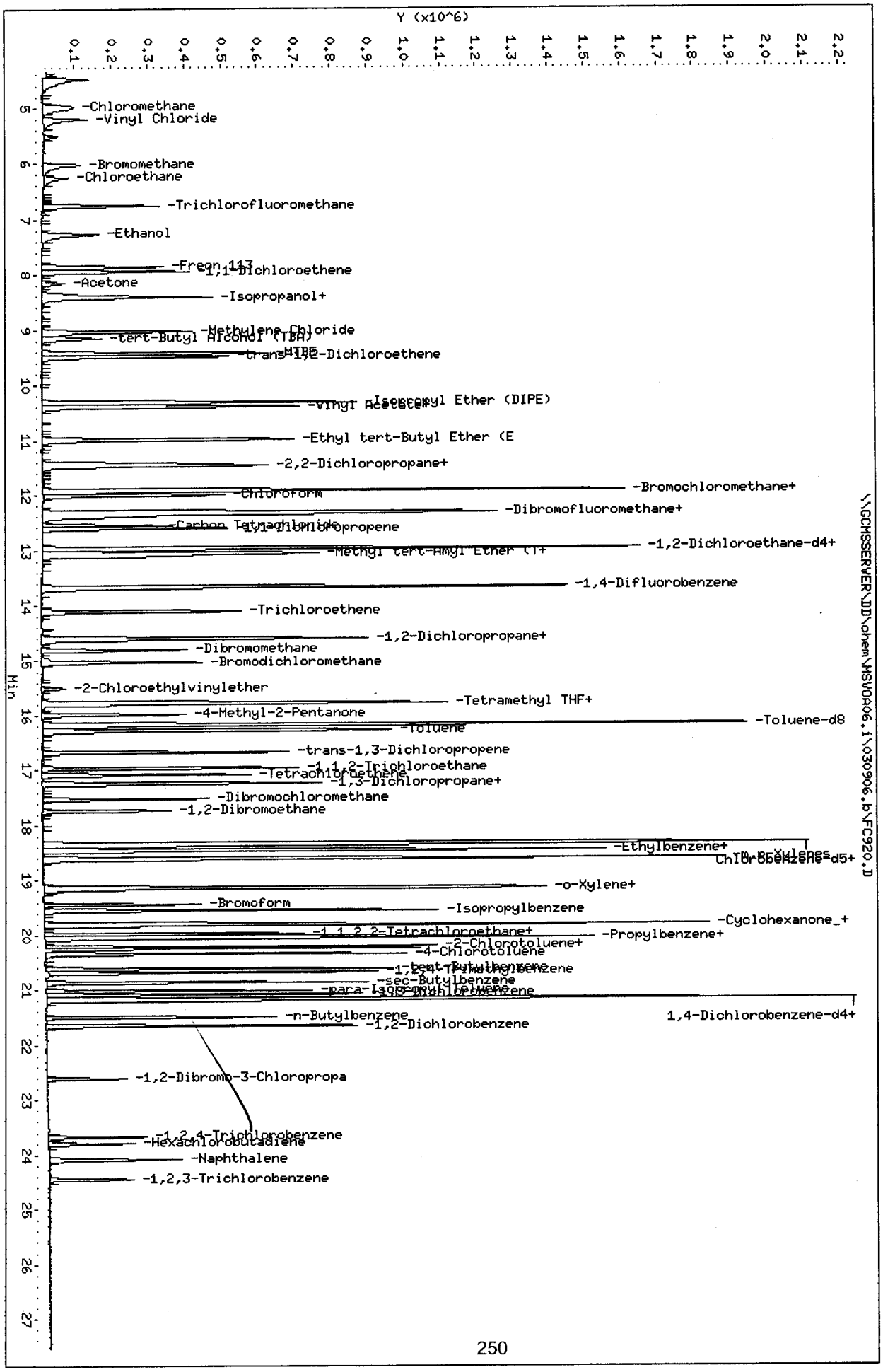
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA06.i
Operator: BO
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC921.D
Report Date: 10-Mar-2006 08:55

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC921.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 09-MAR-2006 19:47 MS Autotune Date: 24-FEB-2006 08:08
Operator : BO Inst ID: MSVOA06.i
Smp Info : ICAL,S2783,0.01/100,S2844,0.01/100,
Misc Info : S2410,0.005/100,50PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\826GOX6W.m
Meth Date : 10-Mar-2006 08:54 target Quant Type: ISTD
Cal Date : 09-MAR-2006 16:16 Cal File: FC915.D
Als bottle: 21 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.471	4.471	(0.362)	858613	50.0000	51.1792
2 Chloromethane	50	4.993	4.993	(0.404)	807025	50.0000	47.7090
3 Vinyl Chloride	62	5.200	5.200	(0.421)	659630	50.0000	49.1495
4 Bromomethane	94	6.018	6.018	(0.487)	431594	50.0000	48.6742
5 Chloroethane	64	6.254	6.254	(0.506)	354598	50.0000	47.9418
6 Trichlorofluoromethane	101	6.756	6.756	(0.547)	929873	50.0000	50.0359
7 Ethanol	45	7.269	7.269	(0.588)	992426	5000.00	5047.6718
8 Freon 113	101	7.860	7.860	(0.636)	495651	50.0000	47.2749
9 1,1-Dichloroethene	96	7.939	7.939	(0.643)	513584	50.0000	46.3480
10 Acetone	43	8.145	8.145	(0.659)	324501	50.0000	47.2112
11 Isopropanol	45	8.362	8.362	(0.677)	525559	500.000	499.4374
12 Carbon Disulfide	76	8.411	8.411	(0.681)	2138916	50.0000	47.3998
13 Methylene Chloride	84	9.032	9.032	(0.731)	790392	50.0000	48.9385
14 tert-Butyl Alcohol (TBA)	59	9.150	9.150	(0.741)	704760	500.000	484.9904
15 MTBE	73	9.426	9.426	(0.763)	2185291	50.0000	48.2153
16 trans-1,2-Dichloroethene	96	9.485	9.485	(0.768)	623368	50.0000	45.3648

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC921.D
Report Date: 10-Mar-2006 08:55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	10.313	10.313	(0.835)	2983110	50.0000	48.4950
	19 Vinyl Acetate	43	10.392	10.392	(0.841)	2088081	50.0000	51.6083
	18 1,1-Dichloroethane	63	10.372	10.372	(0.840)	1226725	50.0000	48.2148
	20 Ethyl tert-Butyl Ether (ETBE)	59	10.983	10.983	(0.889)	2229175	50.0000	49.1098
	21 2,2-Dichloropropane	77	11.426	11.426	(0.925)	767063	50.0000	46.5331
	22 cis-1,2-Dichloroethene	96	11.465	11.465	(0.928)	739121	50.0000	45.6961
	23 2-Butanone	43	11.475	11.475	(0.929)	479063	50.0000	49.0959
	24 Bromochloromethane	128	11.909	11.909	(0.964)	374936	50.0000	49.6675
	25 Tetrahydrofuran	42	11.919	11.919	(0.965)	2456637	500.000	460.1441
	26 Chloroform	83	12.007	12.007	(0.972)	1211166	50.0000	48.2407
$	27 Dibromofluoromethane	113	12.303	12.303	(0.996)	634372	50.0000	49.6887
	28 1,1,1-Trichloroethane	97	12.313	12.313	(0.997)	787668	50.0000	47.7719
*	29 Pentafluorobenzene	168	12.352	12.352	(1.000)	957753	50.0000	
	30 Carbon Tetrachloride	117	12.559	12.559	(0.919)	575950	50.0000	51.8158
	31 1,1-Dichloropropene	75	12.608	12.608	(0.923)	775663	50.0000	48.3868
$	32 1,2-Dichloroethane-d4	65	12.973	12.973	(0.950)	674062	50.0000	49.0219
	33 Benzene	78	12.983	12.983	(0.950)	2505988	50.0000	47.0689
	34 Methyl tert-Amyl Ether (TAME)	73	13.061	13.061	(0.956)	2075773	50.0000	49.1001
	35 1,2-Dichloroethane	62	13.111	13.111	(0.960)	884556	50.0000	49.6062
*	36 1,4-Difluorobenzene	114	13.662	13.662	(1.000)	1704082	50.0000	
	37 Trichloroethene	95	14.106	14.106	(1.032)	605242	50.0000	48.1019.
	38 1,2-Dichloropropane	63	14.588	14.588	(1.068)	738297	50.0000	47.9995
$	39 Trifluorotoluene	146	14.608	14.608	(1.069)	693393	50.0000	50.0124
	40 Dibromomethane	93	14.805	14.805	(1.084)	527456	50.0000	49.5465
	41 Bromodichloromethane	83	15.032	15.032	(1.100)	916686	50.0000	50.7005
	42 2-Chloroethylvinylether	63	15.505	15.505	(1.135)	43361	50.0000	42.2525
	43 Tetramethyl THF	43	15.761	15.761	(1.154)	1652644	50.0000	50.1015
	44 cis-1,3-Dichloropropene	75	15.790	15.790	(1.156)	1158534	50.0000	50.1540
	45 4-Methyl-2-Pentanone	43	15.987	15.987	(1.170)	958943	50.0000	50.7396
$	46 Toluene-d8	98	16.165	16.165	(1.183)	1862184	50.0000	50.1804
	47 Toluene	92	16.273	16.273	(1.191)	1475366	50.0000	49.1923
	48 trans-1,3-Dichloropropene	75	16.677	16.677	(1.221)	1064647	50.0000	49.9343
	49 1,1,2-Trichloroethane	85	16.963	16.963	(1.242)	386461	50.0000	49.6618
	50 Tetrachloroethene	166	17.081	17.081	(0.932)	483812	50.0000	49.3744
	51 1,3-Dichloropropane	76	17.229	17.229	(0.940)	1186682	50.0000	49.8684
	52 2-Hexanone	43	17.258	17.258	(0.942)	674567	50.0000	50.4814
	53 Dibromochloromethane	129	17.524	17.524	(0.956)	690464	50.0000	51.2526
	54 1,2-Dibromoethane	107	17.731	17.731	(1.298)	728623	50.0000	49.8563
*	55 Chlorobenzene-d5	117	18.322	18.322	(1.000)	1422227	50.0000	
	56 Chlorobenzene	112	18.362	18.362	(1.002)	1541199	50.0000	49.2675
	57 Ethylbenzene	91	18.440	18.440	(1.006)	2535306	50.0000	49.3276
	58 1,1,1,2-Tetrachloroethane	131	18.460	18.460	(1.008)	563182	50.0000	48.5744
	59 m,p-Xylenes	106	18.598	18.598	(1.015)	1762534	100.000	96.3894
	60 o-Xylene	106	19.130	19.130	(1.044)	907256	50.0000	48.5853
	61 Styrene	104	19.150	19.150	(1.045)	1666336	50.0000	50.3968
	62 Bromoform	173	19.445	19.445	(1.061)	542530	50.0000	49.6405
	63 Isopropylbenzene	105	19.554	19.554	(0.924)	2041652	50.0000	48.1200

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC921.D
Report Date: 10-Mar-2006 08:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone_	55	19.780	19.780	(0.935)	1190343	500.000	523.1565
$ 65 Bromofluorobenzene	95	19.810	19.810	(0.936)	825016	50.0000	49.1272
66 1,1,2,2-Tetrachloroethane	83	19.967	19.967	(0.944)	1023377	50.0000	49.2690
67 Bromobenzene	156	20.017	20.017	(0.946)	698969	50.0000	48.4533
68 Propylbenzene	91	20.046	20.046	(0.947)	2448541	50.0000	46.6538
69 1,2,3-Trichloropropane	75	20.056	20.056	(0.948)	772324	50.0000	45.6784
70 2-Chlorotoluene	91	20.214	20.214	(0.955)	1893307	50.0000	47.1507
71 1,3,5-Trimethylbenzene	105	20.243	20.243	(0.957)	1517241	50.0000	49.2829
72 4-Chlorotoluene	91	20.342	20.342	(0.961)	1783093	50.0000	47.8392
73 tert-Butylbenzene	119	20.618	20.618	(0.974)	1219899	50.0000	48.9167
74 1,2,4-Trimethylbenzene	105	20.687	20.687	(0.978)	1483838	50.0000	50.6767
75 sec-Butylbenzene	105	20.864	20.864	(0.986)	1777395	50.0000	51.0342
76 para-Isopropyl Toluene	119	21.012	21.012	(0.993)	1245217	50.0000	51.3294
77 1,3-Dichlorobenzene	146	21.081	21.081	(0.996)	1100491	50.0000	49.3600
* 78 1,4-Dichlorobenzene-d4	152	21.159	21.159	(1.000)	701343	50.0000	
79 1,4-Dichlorobenzene	146	21.189	21.189	(1.001)	1120838	50.0000	49.3198
80 n-Butylbenzene	91	21.485	21.485	(1.015)	1047242	50.0000	55.4948
81 1,2-Dichlorobenzene	146	21.642	21.642	(1.023)	1110013	50.0000	49.9272
82 1,2-Dibromo-3-Chloropropane	75	22.608	22.608	(1.068)	178040	50.0000	50.1297
83 1,2,4-Trichlorobenzene	180	23.672	23.672	(1.119)	322304	50.0000	50.1650
84 Hexachlorobutadiene	225	23.800	23.800	(1.125)	139487	50.0000	48.4716
85 Naphthalene	128	24.085	24.085	(1.138)	1060959	50.0000	49.7168
86 1,2,3-Trichlorobenzene	180	24.450	24.450	(1.156)	315068	50.0000	50.4790

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC921.D
Date : 09-MAR-2006 19:47
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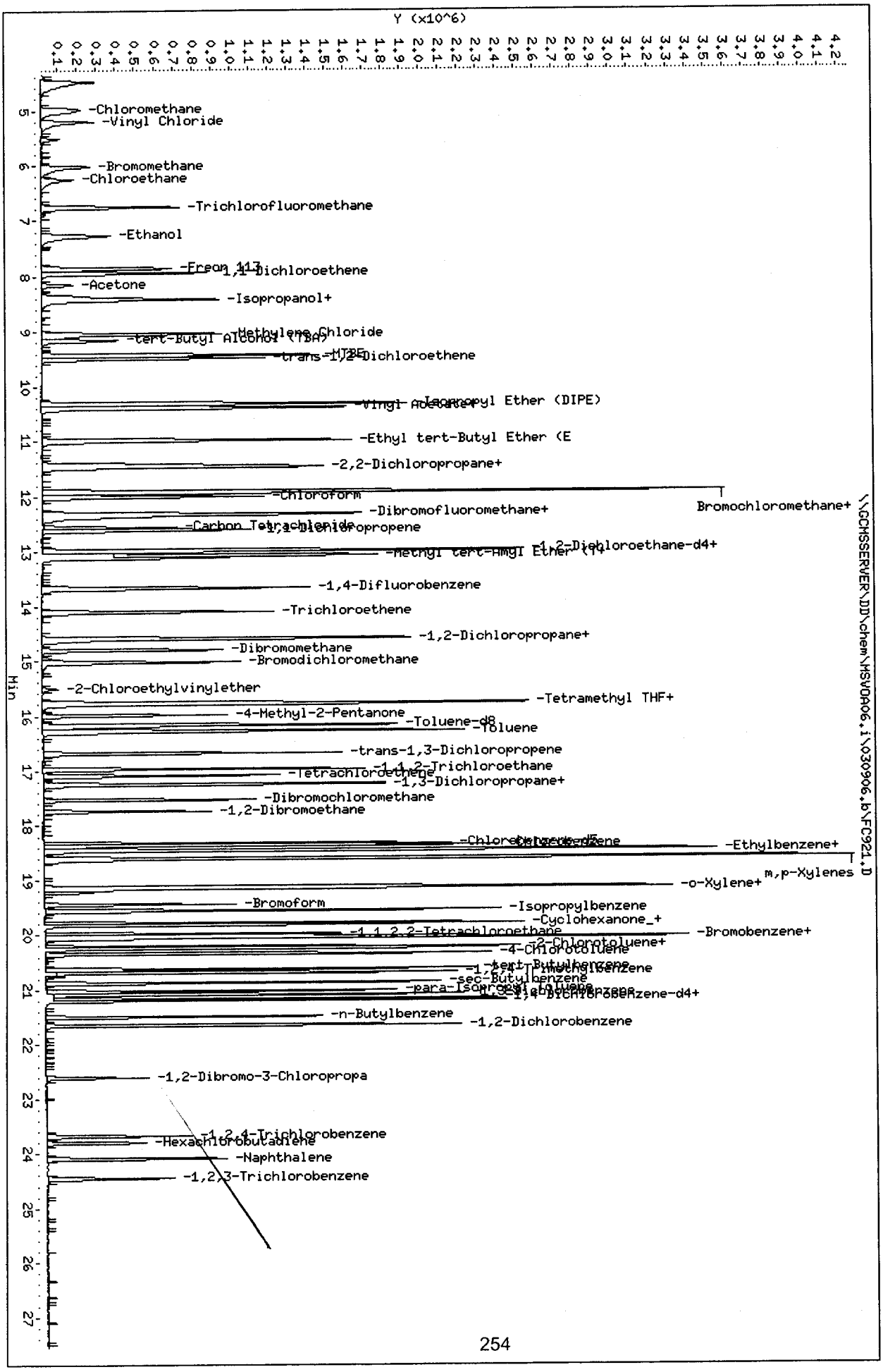
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA06.i
Operator: BO
Column diameter: 0.25



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Report Date: 10-Mar-2006 08:55

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Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC922.D
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Operator : BO Inst ID: MSVOA06.i
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Misc Info : S2410,0.0075/100,75PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\826GOX6W.m
Meth Date : 10-Mar-2006 08:55 target Quant Type: ISTD
Cal Date : 09-MAR-2006 16:16 Cal File: FC915.D
Als bottle: 22 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.477	4.477	(0.363)	1405392	75.0000	81.5529
2 Chloromethane	50	4.990	4.990	(0.404)	1275903	75.0000	73.4304
3 Vinyl Chloride	62	5.206	5.206	(0.422)	1084952	75.0000	78.6999
4 Bromomethane	94	6.024	6.024	(0.488)	696374	75.0000	76.4560
5 Chloroethane	64	6.251	6.251	(0.506)	559871	75.0000	73.6905
6 Trichlorofluoromethane	101	6.763	6.763	(0.548)	1562563	75.0000	81.8542
7 Ethanol	45	7.265	7.265	(0.588)	1465706	7500.00	7257.4695
8 Freon 113	101	7.856	7.856	(0.636)	856370	75.0000	75.7389
9 1,1-Dichloroethene	96	7.935	7.935	(0.643)	869397	75.0000	76.3806
10 Acetone	43	8.142	8.142	(0.659)	503070	75.0000	71.2529
11 Isopropanol	45	8.359	8.359	(0.677)	776160	750.000	718.0525
12 Carbon Disulfide	76	8.408	8.408	(0.681)	3527198	75.0000	76.0953
13 Methylene Chloride	84	9.029	9.029	(0.731)	1206696	75.0000	72.7364
14 tert-Butyl Alcohol (TBA)	59	9.157	9.157	(0.742)	1067991	750.000	715.4922
15 MTBE	73	9.423	9.423	(0.763)	3358694	75.0000	72.1426
16 trans-1,2-Dichloroethene	96	9.492	9.492	(0.769)	1011941	75.0000	71.6927

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC922.D
Report Date: 10-Mar-2006 08:55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	10.309	10.309	(0.835)	4513596	75.0000	71.4325
	19 Vinyl Acetate	43	10.398	10.398	(0.842)	3100503	75.0000	74.6019
	18 1,1-Dichloroethane	63	10.378	10.378	(0.840)	1888579	75.0000	72.2626
	20 Ethyl tert-Butyl Ether (ETBE)	59	10.989	10.989	(0.890)	3373779	75.0000	72.3579
	21 2,2-Dichloropropane	77	11.423	11.423	(0.925)	1210205	75.0000	71.4719
	22 cis-1,2-Dichloroethene	96	11.462	11.462	(0.928)	1118169	75.0000	67.3002
	23 2-Butanone	43	11.482	11.482	(0.930)	720071	75.0000	71.8412
	24 Bromochloromethane	128	11.915	11.915	(0.965)	565654	75.0000	72.9477
	25 Tetrahydrofuran	42	11.915	11.915	(0.965)	3511064	750.000	640.2314
	26 Chloroform	83	12.004	12.004	(0.972)	1868846	75.0000	72.4652
$	27 Dibromofluoromethane	113	12.309	12.309	(0.997)	642535	50.0000	48.9955
	28 1,1,1-Trichloroethane	97	12.319	12.319	(0.998)	1287069	75.0000	75.9935
*	29 Pentafluorobenzene	168	12.349	12.349	(1.000)	983803	50.0000	
	30 Carbon Tetrachloride	117	12.556	12.556	(0.919)	971535	75.0000	85.2145
	31 1,1-Dichloropropene	75	12.605	12.605	(0.922)	1260534	75.0000	76.6630
$	32 1,2-Dichloroethane-d4	65	12.979	12.979	(0.950)	685871	50.0000	48.6306
	33 Benzene	78	12.979	12.979	(0.950)	3918046	75.0000	71.7468
	34 Methyl tert-Amyl Ether (TAME)	73	13.068	13.068	(0.956)	3136472	75.0000	72.3305
	35 1,2-Dichloroethane	62	13.117	13.117	(0.960)	1334417	75.0000	72.9591
*	36 1,4-Difluorobenzene	114	13.669	13.669	(1.000)	1747886	50.0000	
	37 Trichloroethene	95	14.102	14.102	(1.032)	966395	75.0000	74.8799
	38 1,2-Dichloropropane	63	14.585	14.585	(1.067)	1107767	75.0000	70.2152
$	39 Trifluorotoluene	146	14.605	14.605	(1.068)	1189064	75.0000	83.6144
	40 Dibromomethane	93	14.802	14.802	(1.083)	806512	75.0000	73.8610
	41 Bromodichloromethane	83	15.028	15.028	(1.099)	1390340	75.0000	74.9705
	42 2-Chloroethylvinylether	63	15.511	15.511	(1.135)	40783	75.0000	38.7444
	43 Tetramethyl THF	43	15.767	15.767	(1.154)	2417674	75.0000	71.4573
	44 cis-1,3-Dichloropropene	75	15.787	15.787	(1.155)	1718761	75.0000	72.5420
	45 4-Methyl-2-Pentanone	43	15.984	15.984	(1.169)	1429692	75.0000	73.7520
$	46 Toluene-d8	98	16.171	16.171	(1.183)	1889138	50.0000	49.6309
	47 Toluene	92	16.279	16.279	(1.191)	2228979	75.0000	72.4570
	48 trans-1,3-Dichloropropene	75	16.674	16.674	(1.220)	1620501	75.0000	74.1003
	49 1,1,2-Trichloroethane	85	16.959	16.959	(1.241)	585538	75.0000	73.3584
	50 Tetrachloroethene	166	17.087	17.087	(0.932)	795356	75.0000	81.1169
	51 1,3-Dichloropropane	76	17.235	17.235	(0.940)	1742644	75.0000	73.1854
	52 2-Hexanone	43	17.255	17.255	(0.941)	979800	75.0000	73.2771
	53 Dibromochloromethane	129	17.531	17.531	(0.956)	1070493	75.0000	79.4115
	54 1,2-Dibromoethane	107	17.738	17.738	(1.298)	1089629	75.0000	72.6898
*	55 Chlorobenzene-d5	117	18.329	18.329	(1.000)	1423129	50.0000	
	56 Chlorobenzene	112	18.368	18.368	(1.002)	2320483	75.0000	74.1318
	57 Ethylbenzene	91	18.447	18.447	(1.006)	3862770	75.0000	75.1074
	58 1,1,1,2-Tetrachloroethane	131	18.457	18.457	(1.007)	852436	75.0000	73.4760
	59 m,p-Xylenes	106	18.595	18.595	(1.015)	2682478	150.000	146.6064
	60 o-Xylene	106	19.127	19.127	(1.044)	1381639	75.0000	73.9426
	61 Styrene	104	19.156	19.156	(1.045)	2498199	75.0000	75.5079
	62 Bromoform	173	19.442	19.442	(1.061)	843331	75.0000	77.1143
	63 Isopropylbenzene	105	19.550	19.550	(0.924)	3121084	75.0000	73.4818

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC922.D
Report Date: 10-Mar-2006 08:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone_	55	19.777	19.777	(0.935)	1798622	750.000	749.8215
$ 65 Bromofluorobenzene	95	19.816	19.816	(0.937)	826900	50.0000	49.1862
66 1,1,2,2-Tetrachloroethane	83	19.974	19.974	(0.944)	1474539	75.0000	70.9129
67 Bromobenzene	156	20.013	20.013	(0.946)	1050621	75.0000	72.7516
68 Propylbenzene	91	20.043	20.043	(0.947)	3815553	75.0000	72.6219
69 1,2,3-Trichloropropane	75	20.063	20.063	(0.948)	1165141	75.0000	68.8368
70 2-Chlorotoluene	91	20.210	20.210	(0.955)	2895773	75.0000	72.0382
71 1,3,5-Trimethylbenzene	105	20.240	20.240	(0.957)	2371285	75.0000	76.9408
72 4-Chlorotoluene	91	20.338	20.338	(0.961)	2718962	75.0000	72.8692
73 tert-Butylbenzene	119	20.614	20.614	(0.974)	1915867	75.0000	76.7414
74 1,2,4-Trimethylbenzene	105	20.683	20.683	(0.978)	2340663	75.0000	79.8531
75 sec-Butylbenzene	105	20.870	20.870	(0.986)	2832339	75.0000	81.2370
76 para-Isopropyl Toluene	119	21.018	21.018	(0.993)	2038995	75.0000	83.9592
77 1,3-Dichlorobenzene	146	21.087	21.087	(0.997)	1679510	75.0000	75.2493
* 78 1,4-Dichlorobenzene-d4	152	21.156	21.156	(1.000)	702101	50.0000	
79 1,4-Dichlorobenzene	146	21.186	21.186	(1.001)	1697472	75.0000	74.6126
80 n-Butylbenzene	91	21.491	21.491	(1.016)	1764158	75.0000	93.3842
81 1,2-Dichlorobenzene	146	21.649	21.649	(1.023)	1688656	75.0000	75.8719
82 1,2-Dibromo-3-Chloropropane	75	22.604	22.604	(1.068)	262259	75.0000	76.5558
83 1,2,4-Trichlorobenzene	180	23.678	23.678	(1.119)	546602	75.0000	74.9375
84 Hexachlorobutadiene	225	23.796	23.796	(1.125)	231916	75.0000	75.3866
85 Naphthalene	128	24.082	24.082	(1.138)	1727814	75.0000	75.0760
86 1,2,3-Trichlorobenzene	180	24.447	24.447	(1.156)	525311	75.0000	74.8420

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC922.D
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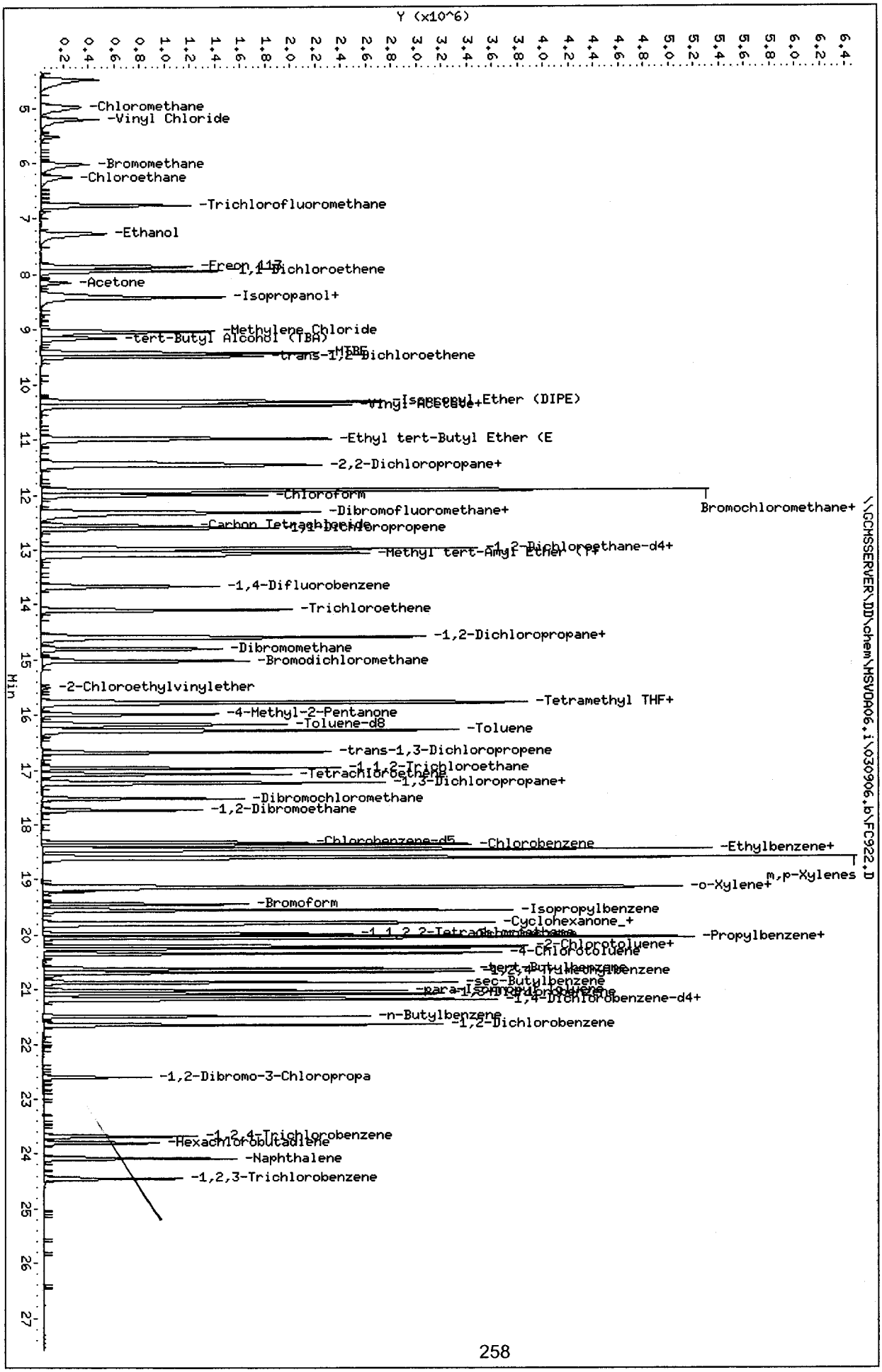
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA06.i
Operator: BO
Column diameter: 0.25



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Report Date: 10-Mar-2006 08:55

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC923.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 09-MAR-2006 20:56 MS Autotune Date: 24-FEB-2006 08:08
Operator : BO Inst ID: MSVOA06.i
Smp Info : ICAL,S2783,0.02/100,S2844,0.02/100,
Misc Info : S2410,0.01/100,100PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\826GOX6W.m
Meth Date : 10-Mar-2006 08:55 target Quant Type: ISTD
Cal Date : 09-MAR-2006 20:56 Cal File: FC923.D
Als bottle: 23 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.481	4.481	(0.363)	1932274	100.000	108.7542
2 Chloromethane	50	4.994	4.994	(0.404)	1783185	100.000	99.5383
3 Vinyl Chloride	62	5.210	5.210	(0.422)	1489825	100.000	104.8177
4 Bromomethane	94	6.028	6.028	(0.488)	985003	100.000	104.8919
5 Chloroethane	64	6.255	6.255	(0.506)	751590	100.000	95.9488
6 Trichlorofluoromethane	101	6.767	6.767	(0.548)	2160616	100.000	109.7783
7 Ethanol	45	7.269	7.269	(0.588)	1894234	10000.0	9097.1903
8 Freon 113	101	7.860	7.860	(0.636)	1219533	100.000	99.9470
9 1,1-Dichloroethene	96	7.939	7.939	(0.643)	1146704	100.000	97.7129
10 Acetone	43	8.146	8.146	(0.659)	734080	100.000	100.8447
11 Isopropanol	45	8.353	8.353	(0.676)	1021197	1000.00	916.3255
12 Carbon Disulfide	76	8.412	8.412	(0.681)	4689545	100.000	98.1283
13 Methylene Chloride	84	9.033	9.033	(0.731)	1600254	100.000	93.5574
14 tert-Butyl Alcohol (TBA)	59	9.161	9.161	(0.742)	1417123	1000.00	920.8315
15 MTBE	73	9.427	9.427	(0.763)	4485267	100.000	93.4426
16 trans-1,2-Dichloroethene	96	9.486	9.486	(0.768)	1330193	100.000	91.4049

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC923.D
Report Date: 10-Mar-2006 08:55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	10.313	10.313	(0.835)	5974827	100.000	91.7136
	19 Vinyl Acetate	43	10.392	10.392	(0.841)	3384763	100.000	78.9917
	18 1,1-Dichloroethane	63	10.382	10.382	(0.841)	2493150	100.000	92.5257
	20 Ethyl tert-Butyl Ether (ETBE)	59	10.983	10.983	(0.889)	4512919	100.000	93.8776
	21 2,2-Dichloropropane	77	11.427	11.427	(0.925)	1600480	100.000	91.6774
	22 cis-1,2-Dichloroethene	96	11.466	11.466	(0.928)	1491804	100.000	87.0875
	23 2-Butanone	43	11.476	11.476	(0.929)	978382	100.000	94.6764
	24 Bromochloromethane	128	11.919	11.919	(0.965)	745653	100.000	93.2680
	25 Tetrahydrofuran	42	11.919	11.919	(0.965)	4557949	1000.00	806.1261
	26 Chloroform	83	12.008	12.008	(0.972)	2487785	100.000	93.5630
$	27 Dibromofluoromethane	113	12.313	12.313	(0.997)	656932	50.0000	48.5864
	28 1,1,1-Trichloroethane	97	12.323	12.323	(0.998)	1708879	100.000	97.8637
*	29 Pentafluorobenzene	168	12.353	12.353	(1.000)	1014315	50.0000	
	30 Carbon Tetrachloride	117	12.560	12.560	(0.919)	1330900	100.000	112.3609
	31 1,1-Dichloropropene	75	12.609	12.609	(0.922)	1708575	100.000	100.0185
$	32 1,2-Dichloroethane-d4	65	12.973	12.973	(0.949)	709443	50.0000	48.4172
	33 Benzene	78	12.983	12.983	(0.950)	5158056	100.000	90.9146
	34 Methyl tert-Amyl Ether (TAME)	73	13.072	13.072	(0.956)	4156305	100.000	92.2576
	35 1,2-Dichloroethane	62	13.111	13.111	(0.959)	1808881	100.000	95.1947
*	36 1,4-Difluorobenzene	114	13.673	13.673	(1.000)	1815927	50.0000	
	37 Trichloroethene	95	14.106	14.106	(1.032)	1323525	100.000	98.7091
	38 1,2-Dichloropropane	63	14.589	14.589	(1.067)	1469631	100.000	89.6615
$	39 Trifluorotoluene	146	14.609	14.609	(1.068)	1616742	100.000	109.4287
	40 Dibromomethane	93	14.806	14.806	(1.083)	1083850	100.000	95.5406
	41 Bromodichloromethane	83	15.032	15.032	(1.099)	1875214	100.000	97.3274
	42 2-Chloroethylvinylether	63	15.505	15.505	(1.134)	53075	100.000	48.5327
	43 Tetramethyl THF	43	15.761	15.761	(1.153)	3191242	100.000	90.7870
	44 cis-1,3-Dichloropropene	75	15.791	15.791	(1.155)	2279139	100.000	92.5891
	45 4-Methyl-2-Pentanone	43	15.988	15.988	(1.169)	1891787	100.000	93.9330
$	46 Toluene-d8	98	16.175	16.175	(1.183)	1960991	50.0000	49.5883
	47 Toluene	92	16.284	16.284	(1.191)	2945433	100.000	92.1592
	48 trans-1,3-Dichloropropene	75	16.678	16.678	(1.220)	2176905	100.000	95.8131
	49 1,1,2-Trichloroethane	85	16.963	16.963	(1.241)	757048	100.000	91.2920
	50 Tetrachloroethene	166	17.082	17.082	(0.932)	1083947	100.000	106.9016
	51 1,3-Dichloropropane	76	17.229	17.229	(0.940)	2311430	100.000	93.8691
	52 2-Hexanone	43	17.259	17.259	(0.942)	1330958	100.000	96.2546
	53 Dibromochloromethane	129	17.525	17.525	(0.956)	1438908	100.000	103.2188
	54 1,2-Dibromoethane	107	17.732	17.732	(1.297)	1457632	100.000	93.5960
*	55 Chlorobenzene-d5	117	18.323	18.323	(1.000)	1471696	50.0000	
	56 Chlorobenzene	112	18.362	18.362	(1.002)	3079653	100.000	95.1381
	57 Ethylbenzene	91	18.441	18.441	(1.006)	5020015	100.000	94.3877
	58 1,1,1,2-Tetrachloroethane	131	18.461	18.461	(1.008)	1116180	100.000	93.0345
	59 m,p-Xylenes	106	18.599	18.599	(1.015)	3520834	200.000	186.0752
	60 o-Xylene	106	19.131	19.131	(1.044)	1823746	100.000	94.3823
	61 Styrene	104	19.150	19.150	(1.045)	3277773	100.000	95.8011
	62 Bromoform	173	19.446	19.446	(1.061)	1137725	100.000	100.6006
	63 Isopropylbenzene	105	19.554	19.554	(0.924)	4265155	100.000	95.2921

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC923.D
Report Date: 10-Mar-2006 08:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone_	55	19.781	19.781	(0.935)	2674997	1000.00	995.7223
$ 65 Bromofluorobenzene	95	19.810	19.810	(0.936)	843904	50.0000	47.6355
66 1,1,2,2-Tetrachloroethane	83	19.978	19.978	(0.944)	1899829	100.000	86.7025
67 Bromobenzene	156	20.017	20.017	(0.946)	1412798	100.000	92.8377
68 Propylbenzene	91	20.047	20.047	(0.947)	5040806	100.000	91.0454
69 1,2,3-Trichloropropane	75	20.057	20.057	(0.948)	1487796	100.000	83.4129
70 2-Chlorotoluene	91	20.214	20.214	(0.955)	3764807	100.000	88.8768
71 1,3,5-Trimethylbenzene	105	20.244	20.244	(0.957)	3160805	100.000	97.3236
72 4-Chlorotoluene	91	20.342	20.342	(0.961)	3565763	100.000	90.6862
73 tert-Butylbenzene	119	20.618	20.618	(0.974)	2617729	100.000	99.5031
74 1,2,4-Trimethylbenzene	105	20.687	20.687	(0.978)	3130796	100.000	101.3574
75 sec-Butylbenzene	105	20.865	20.865	(0.986)	3850955	100.000	104.8153
76 para-Isopropyl Toluene	119	21.012	21.012	(0.993)	2827491	100.000	110.4844
77 1,3-Dichlorobenzene	146	21.081	21.081	(0.996)	2240894	100.000	95.2772
* 78 1,4-Dichlorobenzene-d4	152	21.160	21.160	(1.000)	739864	50.0000	
79 1,4-Dichlorobenzene	146	21.190	21.190	(1.001)	2280190	100.000	95.1104
80 n-Butylbenzene	91	21.495	21.495	(1.016)	2458940	100.000	123.5184
81 1,2-Dichlorobenzene	146	21.643	21.643	(1.023)	2253209	100.000	96.0703
82 1,2-Dibromo-3-Chloropropane	75	22.608	22.608	(1.068)	347090	100.000	99.0513
83 1,2,4-Trichlorobenzene	180	23.672	23.672	(1.119)	781623	100.000	90.2392
84 Hexachlorobutadiene	225	23.800	23.800	(1.125)	339835	100.000	98.1541
85 Naphthalene	128	24.086	24.086	(1.138)	2376968	100.000	92.1364
86 1,2,3-Trichlorobenzene	180	24.451	24.451	(1.155)	750326	100.000	90.9098

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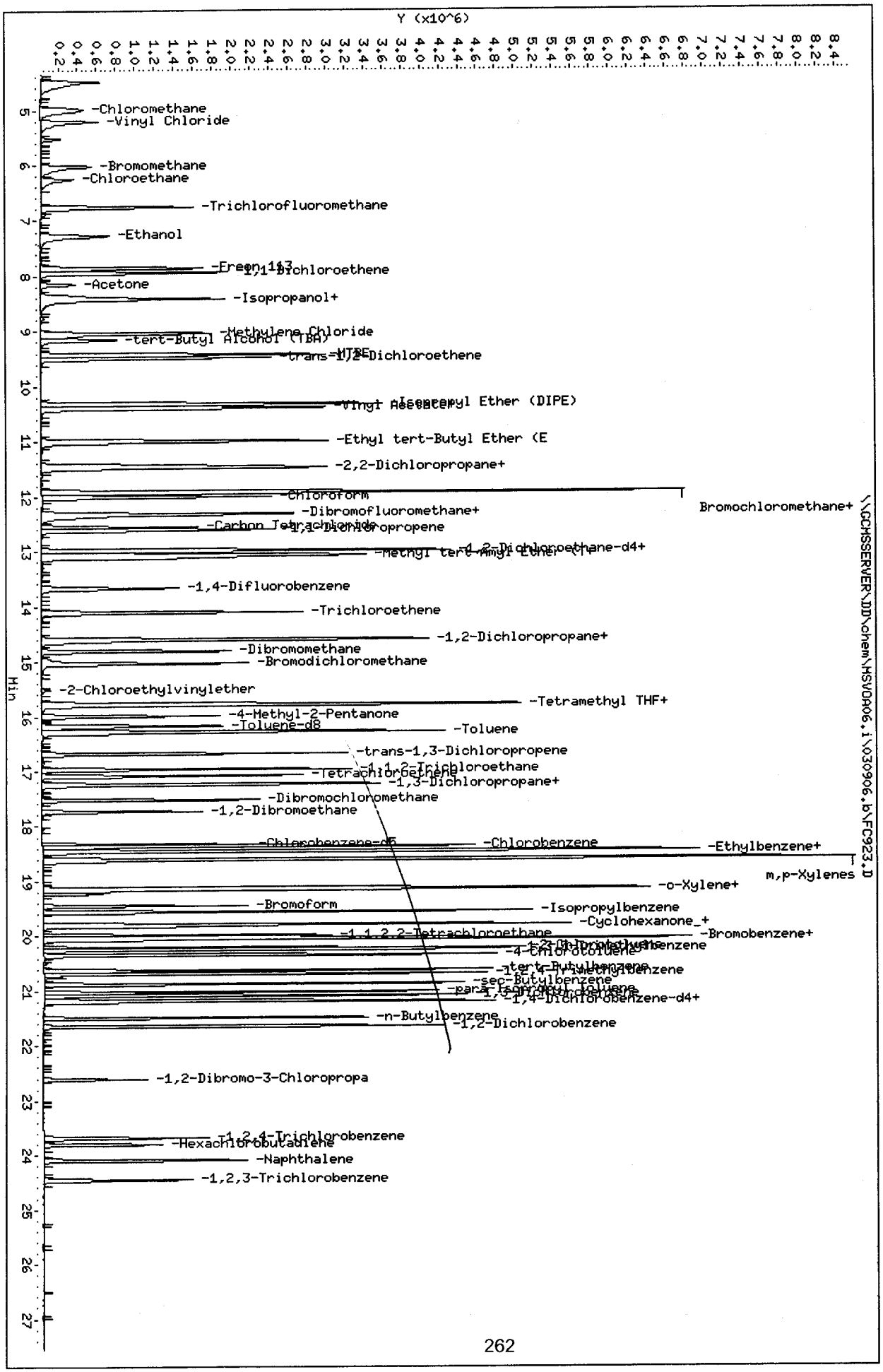
Column phase: RTX 624

Instrument: MSVOA06.i
Operator: BO
Column diameter: 0.25



8260 /6ADSX w ICAL

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA06 Run Name: 25PPB IDF : 1.0
Seqnum : 456098395024 File : fc924 Time : 09-MAR-2006 21:30
Cal : 456098395001 Caldate : 09-MAR-2006 Caltype : WATER
Standards: S2807 (10000X), S2740 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	0.8758	0.7055	25.00	20.14	ug/L	-19	30	
Chloromethane	0.8831	0.8040	25.00	22.76	ug/L	-9	30	
Vinyl Chloride	0.7006	0.6130	25.00	21.87	ug/L	-13	20	
Bromomethane	0.4629	0.4255	25.00	22.98	ug/L	-8	30	
Chloroethane	0.3861	0.3493	25.00	22.61	ug/L	-10	30	
Trichlorofluoromethane	0.9702	0.8571	25.00	22.09	ug/L	-12	30	

ISTD (ICAL fc921)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	957753	1022053	6.71	12.35	12.35	0.00
1,4-Difluorobenzene	1704082	1828587	7.31	13.66	13.67	0.01
1,4-Dichlorobenzene-d4	701343	686381	-2.13	21.16	21.17	0.01

3/10/06

03/13/07

8260/6ADX w 10X

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA06 Run Name: 25PPB IDF : 1.0
Seqnum : 456098395025 File : fc925 Time : 09-MAR-2006 22:05
Cal : 456098395001 Caldate : 09-MAR-2006 Caltype : WATER
Standards: S2829 (10000X), S2616 (10000X), S2740 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Acetone	0.3588	0.3207	25.00	22.34	ug/L	-11	40	
Freon 113	0.4860	0.5646	25.00	26.75	ug/L	7	30	
1,1-Dichloroethene	0.5785	0.6442	25.00	27.84	ug/L	11	20	
Methylene Chloride	0.8432	0.8715	25.00	25.84	ug/L	3	30	
Carbon Disulfide	2.3558	2.0922	25.00	22.20	ug/L	-11	30	
MTBE	2.3661	2.0964	25.00	22.15	ug/L	-11	30	
trans-1,2-Dichloroethene	0.7174	0.7242	25.00	25.24	ug/L	1	30	
Vinyl Acetate	2.1122	1.8626	25.00	22.05	ug/L	-12	40	
1,1-Dichloroethane	1.3283	1.3711	25.00	25.81	ug/L	3	30	
2-Butanone	0.5094	0.4759	25.00	23.36	ug/L	-7	40	
2,2-Dichloropropane	0.8606	0.8416	25.00	24.45	ug/L	-2	30	
cis-1,2-Dichloroethene	0.8444	0.8337	25.00	24.68	ug/L	-1	30	
Chloroform	1.3107	1.3268	25.00	25.31	ug/L	1	20	
Bromochloromethane	0.3941	0.4178	25.00	26.51	ug/L	6	30	
1,1,1-Trichloroethane	0.8608	0.9237	25.00	26.83	ug/L	7	30	
1,1-Dichloropropene	0.4704	0.5267	25.00	28.00	ug/L	12	30	
Carbon Tetrachloride	0.3261	0.3791	25.00	29.06	ug/L	16	30	
1,2-Dichloroethane	0.5232	0.5577	25.00	26.65	ug/L	7	30	
Benzene	1.5622	1.6037	25.00	25.67	ug/L	3	30	
Trichloroethene	0.3692	0.4055	25.00	27.46	ug/L	10	30	
1,2-Dichloropropane	0.4513	0.4670	25.00	25.87	ug/L	3	20	
Bromodichloromethane	0.5305	0.5960	25.00	28.09	ug/L	12	30	
Dibromomethane	0.3124	0.3284	25.00	26.28	ug/L	5	30	
2-Chloroethylvinylether	0.0301	0.0373	25.00	30.98	ug/L	24	40	
4-Methyl-2-Pentanone	0.5545	0.5477	25.00	24.69	ug/L	-1	40	
Tetramethyl THF	0.9678	0.9678	25.00	25.00	ug/L	0	30	
cis-1,3-Dichloropropene	0.6778	0.7226	25.00	26.65	ug/L	7	30	
Toluene	0.8800	0.9281	25.00	26.37	ug/L	5	20	
trans-1,3-Dichloropropene	0.6256	0.6188	25.00	24.73	ug/L	-1	30	
1,1,2-Trichloroethane	0.2283	0.2384	25.00	26.10	ug/L	4	30	
2-Hexanone	0.4698	0.4572	25.00	24.33	ug/L	-3	40	
1,3-Dichloropropane	0.8366	0.8871	25.00	26.51	ug/L	6	30	
Tetrachloroethene	0.3445	0.4018	25.00	29.16	ug/L	17	30	
Dibromochloromethane	0.4736	0.5292	25.00	27.93	ug/L	12	30	
1,2-Dibromoethane	0.4288	0.4408	25.00	25.70	ug/L	3	30	
Chlorobenzene	1.0998	1.2031	25.00	27.35	ug/L	9	30	
1,1,1,2-Tetrachloroethane	0.4076	0.4291	25.00	26.32	ug/L	5	30	
Ethylbenzene	1.8069	1.9826	25.00	27.43	ug/L	10	20	
m,p-Xylenes	0.6428	0.7003	50.00	54.46	ug/L	9	30	
o-Xylene	0.6565	0.7345	25.00	27.97	ug/L	12	30	
Styrene	1.1624	1.2711	25.00	27.34	ug/L	9	30	
Bromoform	0.3842	0.3988	25.00	25.95	ug/L	4	30	
Isopropylbenzene	3.0248	3.1560	25.00	26.08	ug/L	4	30	
1,1,2,2-Tetrachloroethane	1.4808	1.5428	25.00	26.05	ug/L	4	30	
1,2,3-Trichloropropane	1.2054	1.2151	25.00	25.20	ug/L	1	30	
Propylbenzene	3.7416	4.1461	25.00	27.70	ug/L	11	30	
Bromobenzene	1.0284	1.0770	25.00	26.18	ug/L	5	30	
1,3,5-Trimethylbenzene	2.1948	2.4158	25.00	27.52	ug/L	10	30	
2-Chlorotoluene	2.8627	3.1165	25.00	27.22	ug/L	9	30	

8260/6450D w tcae

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
4-Chlorotoluene	2.6572	2.7919	25.00	26.27	ug/L	5	30	
tert-Butylbenzene	1.7779	2.0905	25.00	29.40	ug/L	18	30	
1,2,4-Trimethylbenzene	2.0875	2.2982	25.00	27.52	ug/L	10	30	
sec-Butylbenzene	2.4829	3.0149	25.00	30.36	ug/L	**21**	30	!v+
para-Isopropyl Toluene	1.7295	1.9878	25.00	28.73	ug/L	15	30	
1,3-Dichlorobenzene	1.5895	1.7328	25.00	27.25	ug/L	9	30	
1,4-Dichlorobenzene	1.6202	1.7428	25.00	26.89	ug/L	8	30	
n-Butylbenzene	1.3453	1.7100	25.00	31.78	ug/L	**27**	30	!v+
1,2-Dichlorobenzene	1.5850	1.7149	25.00	27.05	ug/L	8	30	
1,2-Dibromo-3-Chloropropane	0.2746	0.2574	25.00	24.56	ug/L	-2	30	
1,2,4-Trichlorobenzene	0.3669	0.4580	25.00	27.46	ug/L	10	30	
Hexachlorobutadiene	0.1698	0.2538	25.00	32.14	ug/L	**29**	30	!v+
Naphthalene	1.3059	1.4870	25.00	25.99	ug/L	4	30	
1,2,3-Trichlorobenzene	0.3141	0.4352	25.00	27.02	ug/L	8	30	
tert-Butyl Alcohol (TBA)	0.0759	0.0664	125.0	109.5	ug/L	-12	30	
Isopropyl Ether (DIPE)	3.2114	2.9536	25.00	22.99	ug/L	-8	30	
Ethyl tert-Butyl Ether (ETBE)	2.3697	2.4151	25.00	25.48	ug/L	2	30	
Methyl tert-Amyl Ether (TAME)	1.2404	1.2070	25.00	24.33	ug/L	-3	30	
Ethanol	0.0103	0.0087	2500	2113	ug/L	-15	30	
Isopropanol	0.0549	0.0484	250.0	220.2	ug/L	-12	30	
Tetrahydrofuran	0.2787	0.2617	250.0	234.8	ug/L	-6	30	

ISTD (ICAL fc921)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	957753	988539	3.21	12.35	12.36	0.01
1,4-Difluorobenzene	1704082	1746226	2.47	13.66	13.67	0.01
Chlorobenzene-d5	1422227	1446564	1.71	18.32	18.33	0.01
1,4-Dichlorobenzene-d4	701343	702193	0.12	21.16	21.17	0.01

03/13/06

12-31/13/06

!=warning +=high bias v=ICV

ICAL

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 8260B

Inst : MSVOA07 Name : 826GOX7
Calnum : 466096970001 Date : 08-MAR-2006 13:32 Type : WATER Inj Vol: 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	gc808	466096970008	0.5/0.25 PPB	08-MAR-2006 13:32	S2844 (2000000X), S2783 (1000000X), S2410 (2000000X), S2707 (5000X)
L2	gc809	466096970009	1.0/0.5 PPB	08-MAR-2006 14:03	S2844 (1000000X), S2783 (500000X), S2410 (1000000X), S2707 (5000X)
L3	gc810	466096970010	2 PPB	08-MAR-2006 14:34	S2844 (250000X), S2783 (250000X), S2410 (500000X), S2707 (5000X)
L4	gc811	466096970011	5 PPB	08-MAR-2006 15:05	S2844 (100000X), S2783 (100000X), S2410 (200000X), S2707 (5000X)
L5	gc812	466096970012	10 PPB	08-MAR-2006 15:36	S2844 (50000X), S2783 (50000X), S2410 (100000X), S2707 (5000X)
L6	gc813	466096970013	20 PPB	08-MAR-2006 16:07	S2844 (25000X), S2783 (25000X), S2410 (50000X), S2707 (5000X)
L7	gc814	466096970014	50 PPB	08-MAR-2006 16:38	S2844 (10000X), S2783 (10000X), S2410 (20000X), S2707 (5000X)
L8	gc815	466096970015	75 PPB	08-MAR-2006 17:09	S2844 (6667X), S2783 (6667X), S2410 (13330X), S2707 (5000X)
L9	gc816	466096970016	100 PPB	08-MAR-2006 17:40	S2844 (5000X), S2783 (5000X), S2410 (10000X), S2707 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.9083m	0.7499m	0.6125	0.7721	0.6417	0.5719	0.8192	0.7411	AVRG	R		1.37539		ug/L	0.7271	15	15	0.050	0.99	
Chloromethane	1.5379	1.2114	1.1383	0.9576	0.9641	0.8746	0.7949	0.8561	0.8090	QUAD	R	-0.6866	1.19714	3.998E-4	ug/L	1.0160	0.998	15	0.10	0.99	
Vinyl Chloride	0.9862m	0.9743m	0.9357m	0.7261	0.7982	0.6847	0.6148	0.7559	0.6808	LINR	R	-0.0235	1.43201		ug/L	0.7952	0.992	15	0.050	0.99	
Bromomethane	0.8834m	0.6335	0.5759	0.4986	0.4808	0.4478	0.4197	0.4315	0.4219	QUAD	R	-0.7453	2.34608	7.995E-4	ug/L	0.5326	1.000	15	0.050	0.99	
Chloroethane	0.5442	0.6161	0.5822m	0.5251	0.5098m	0.4708m	0.4393	0.4892	0.4796	AVRG	R		1.93286		ug/L	0.5174	11	15	0.050	0.99	
Trichlorofluoromethane		1.0978	0.9446	0.7709	0.9479	0.7843	0.6886	0.9576	0.8807	AVRG	R		1.13117		ug/L	0.8840	15	15	0.050	0.99	
Acetone			0.2881m	0.2345	0.2107	0.1973	0.1943	0.2031	0.2202	AVRG	R		4.52106		ug/L	0.2212	15	15	0.050	0.99	
Freon 113	0.3848	0.4257	0.5232	0.3687	0.5300	0.4410	0.4210	0.4662	0.4384	AVRG	R		2.25054		ug/L	0.4443	12	15	0.050	0.99	
1,1-Dichloroethene	0.3043	0.3604m	0.4101	0.3477	0.3945	0.3655	0.3843	0.3961	0.3996	AVRG	R		2.67655		ug/L	0.3736	9	15	0.050	0.99	
Methylene Chloride			0.6724	0.6194	0.6074	0.5897	0.5714	0.5605	0.5535	AVRG	R		1.67692		ug/L	0.5963	7	15	0.050	0.99	
Carbon Disulfide		2.3748	2.2801	1.7672	1.9367	1.7770	1.7129	1.7003	1.6834	AVRG	R		0.52520		ug/L	1.9040	14	15	0.050	0.99	
MTBE	1.2113m	1.1549m	1.2577m	1.2394	1.4720	1.6008	1.7510	1.8238	1.8345	QUAD	R	0.79716	0.58318	-0.00025	ug/L	1.4828	1.000	15	0.050	0.99	
trans-1,2-Dichloroethene	0.5236	0.5562	0.5577	0.4884	0.5403	0.5227	0.5135	0.5128	0.5161	AVRG	R		1.90226		ug/L	0.5257	4	15	0.050	0.99	
Vinyl Acetate	1.0167	0.9604	1.0038	1.0399	1.3492	1.4467	1.5144	1.5449	1.4158	LINR	R	0.35516	0.67674		ug/L	1.2546	0.997	15	0.050	0.99	
1,1-Dichloroethane	1.2016	1.2333	1.1861	1.1046	1.1458	1.1024	1.0712	1.0512	1.0333	AVRG	R		0.88850		ug/L	1.1255	6	15	0.10	0.99	
2-Butanone			0.2660	0.2603	0.2739	0.2714	0.2852	0.3055	0.3161	AVRG	R		3.53809		ug/L	0.2826	7	15	0.050	0.99	
2,2-Dichloropropane	0.6032	0.7931	0.7741	0.6900	0.7683	0.6883	0.7009	0.7091	0.6877	AVRG	R		1.40302		ug/L	0.7127	8	15	0.050	0.99	
cis-1,2-Dichloroethene	0.4462m	0.5324m	0.5292	0.5155	0.5471	0.5589	0.5763	0.5785	0.5775	AVRG	R		1.85126		ug/L	0.5402	8	15	0.050	0.99	
Chloroform	1.1746	0.9887	1.1324	1.0424	1.0864	1.0350	1.0064	0.9906	0.9754	AVRG	R		0.95420		ug/L	1.0480	7	15	0.050	0.99	
Bromochloromethane		0.2609	0.3217	0.2796	0.2953	0.2858	0.2819	0.2809	0.2807	AVRG	R		3.49837		ug/L	0.2858	6	15	0.050	0.99	
1,1,1-Trichloroethane	0.8840	0.8831	0.9626	0.8082	0.8769	0.7887	0.7792	0.7958	0.7752	AVRG	R		1.19145		ug/L	0.8393	8	15	0.050	0.99	
1,1-Dichloropropene	0.3508m	0.3298	0.3711	0.3258	0.3918	0.3628	0.3922	0.4205	0.4135	AVRG	R		2.67986		ug/L	0.3732	9	15	0.050	0.99	
Carbon Tetrachloride	0.3888	0.4213	0.4267	0.3498	0.4125	0.3635	0.3695	0.3929	0.3819	AVRG	R		2.56635		ug/L	0.3897	7	15	0.050	0.99	
1,2-Dichloroethane	0.5368m	0.5572	0.5690	0.5424	0.5606	0.5357	0.5308	0.5210	0.5111	AVRG	R		1.85016		ug/L	0.5405	4	15	0.050	0.99	
Benzene	1.6464	1.3438	1.4823	1.3817	1.4451	1.3757	1.3580	1.3447	1.3312	AVRG	R		0.70816		ug/L	1.4121	7	15	0.050	0.99	

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 ICAL-OK ICV-Cyclohexanone & CLSACE Freon 12 ✓, TCFM ✓, CDS ✓)
LW 3-9-06

AW 3/9/06

466096970001

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Trichloroethene	0.2858	0.2712	0.3233	0.2785	0.3070	0.2838	0.2928	0.3041	0.3051	AVRG	R		3.39399		ug/L	0.2946	6	15	0.050	0.99	
1,2-Dichloropropane	0.2570	0.3043	0.3544	0.3323	0.3574	0.3596	0.3787	0.3773	0.3802	AVRG	R		2.90197		ug/L	0.3446	12	15	0.050	0.99	
Bromodichloromethane	0.3782	0.3725	0.4338	0.4031	0.4297	0.4207	0.4288	0.4291	0.4314	AVRG	R		2.41471		ug/L	0.4141	6	15	0.050	0.99	
Dibromomethane	0.1301	0.1970	0.2155	0.2122	0.2192	0.2136	0.2128	0.2147	0.2130	AVRG	R		4.92309		ug/L	0.2031	14	15	0.050	0.99	
2-Chloroethylvinylether	0.0929	0.0881	0.1051	0.0963	0.1165	0.1446	0.1904	0.2128	0.2243	QUAD	R	1.81259	5.58636	-0.05561	ug/L	0.1412	0.998	15	0.050	0.99	
4-Methyl-2-Pentanone			0.2426	0.2532	0.3097	0.3369	0.3837	0.4107	0.4150	QUAD	R	1.69870	2.61528	-0.00628	ug/L	0.3360	1.000	15	0.050	0.99	
Tetramethyl THF	0.4294m	0.3419m	0.4347	0.4670	0.5876	0.6657	0.7495	0.7765	0.7792	QUAD	R	1.11389	1.35433	-0.00119	ug/L	0.5813	0.999	15	0.050	0.99	
cis-1,3-Dichloropropene	0.3907	0.3331	0.3885	0.4543	0.5361	0.5566	0.5831	0.5877	0.5894	QUAD	R	0.59122	1.71864	-0.00059	ug/L	0.4911	1.000	15	0.050	0.99	
Toluene	0.8347	0.7454	0.8266	0.7759	0.8302	0.8016	0.8239	0.8394	0.8311	AVRG	R		1.23137		ug/L	0.8121	4	15	0.050	0.99	
trans-1,3-Dichloropropene	0.4290	0.3613	0.4229	0.4026	0.4549	0.4770	0.5323	0.5423	0.5467	AVRG	R		2.15886		ug/L	0.4632	14	15	0.050	0.99	
1,1,2-Trichloroethane		0.1520	0.1700	0.1694	0.1734	0.1646	0.1708	0.1702	0.1698	AVRG	R		5.96877		ug/L	0.1675	4	15	0.050	0.99	
2-Hexanone			0.1629	0.1631	0.1907	0.2141	0.2541	0.2874	0.2944	QUAD	R	2.00929	4.00011	-0.02390	ug/L	0.2238	0.999	15	0.050	0.99	
1,3-Dichloropropane	0.4917m	0.5072	0.5651	0.5488	0.6117	0.6268	0.6269	0.6339	0.6271	AVRG	R		1.71775		ug/L	0.5822	10	15	0.050	0.99	
Tetrachloroethene	0.2746	0.2661	0.3228	0.2611	0.3074	0.2762	0.2755	0.3020	0.2914	AVRG	R		3.49239		ug/L	0.2863	7	15	0.050	0.99	
Dibromochloromethane		0.2347	0.2830	0.2717	0.2888	0.2979	0.3102	0.3258	0.3252	AVRG	R		3.42280		ug/L	0.2922	10	15	0.050	0.99	
1,2-Dibromoethane	0.2558	0.2527	0.2678	0.2653	0.2899	0.2942	0.3102	0.3156	0.3203	AVRG	R		3.49946		ug/L	0.2858	9	15	0.050	0.99	
Chlorobenzene	1.0783	1.0085	1.0859	1.0014	1.0247	0.9853	0.9606	0.9910	0.9756	AVRG	R		0.98779		ug/L	1.0124	4	15	0.30	0.99	
1,1,1,2-Tetrachloroethane	0.3339m	0.3230	0.3488m	0.3330	0.3443	0.3420	0.3359	0.3475	0.3412	AVRG	R		2.95113		ug/L	0.3389	2	15	0.050	0.99	
Ethylbenzene	1.4104	1.2870	1.4510	1.4000	1.5874	1.5611	1.5956	1.6974	1.6500	AVRG	R		0.65983		ug/L	1.5155	9	15	0.050	0.99	
m,p-Xylenes	0.4618	0.3933	0.5051	0.5253	0.6269	0.6243	0.6379	0.6799	0.6640	QUAD	R	0.97966	1.54447	-0.00044	ug/L	0.5688	0.999	15	0.050	0.99	
o-Xylene	0.3917m	0.3392	0.4053	0.4349	0.5291	0.5712	0.6102	0.6549	0.6531	QUAD	R	0.80519	1.65909	-0.00233	ug/L	0.5099	0.999	15	0.050	0.99	
Styrene	0.5090	0.4786	0.6328	0.7221	0.9280	1.0060	1.0886	1.1584	1.1476	QUAD	R	0.97727	0.92032	-0.00056	ug/L	0.8523	0.999	15	0.050	0.99	
Bromoform	0.2143	0.1679	0.1974	0.1835	0.1994	0.2019	0.2163	0.2305	0.2345	AVRG	R		4.87621		ug/L	0.2051	10	15	0.10	0.99	
Isopropylbenzene	1.3993	1.3214	1.6369	1.6533	2.1288	2.1595	2.3391	2.5821	2.5111	QUAD	R	0.86219	0.42557	-0.00014	ug/L	1.9702	0.999	15	0.050	0.99	
1,1,2,2-Tetrachloroethane	0.9695	0.8213	0.8443	0.7863	0.8209	0.8037	0.7813	0.8056	0.7857	AVRG	R		1.21317		ug/L	0.8243	7	15	0.30	0.99	
1,2,3-Trichloropropane	0.8442	0.8075	0.8710	0.8242	0.8598	0.8368	0.8027	0.8280	0.8229	AVRG	R		1.20048		ug/L	0.8330	3	15	0.050	0.99	
Propylbenzene	2.5856	2.3723	2.7952	2.7124	3.1827	3.0609	3.1556	3.4752	3.3204	AVRG	R		0.33758		ug/L	2.9623	12	15	0.050	0.99	
Bromobenzene	0.7701	0.6054	0.7345	0.6628	0.7192	0.7025	0.6813	0.7082	0.7019	AVRG	R		1.43180		ug/L	0.6984	7	15	0.050	0.99	
1,3,5-Trimethylbenzene	1.6635	1.3235	1.7239	1.8662	2.2400	2.1979	2.2529	2.4590	2.3940	QUAD	R	0.50311	0.43890	-0.00012	ug/L	2.0134	0.999	15	0.050	0.99	
2-Chlorotoluene	1.9873	1.7326	2.0605	2.0456	2.2772	2.2285	2.2334	2.3835	2.3083	AVRG	R		0.46736		ug/L	2.1397	9	15	0.050	0.99	
4-Chlorotoluene	1.7560	1.5066	1.8374	1.9018	2.0323	2.0399	2.0565	2.1852	2.1445	AVRG	R		0.51546		ug/L	1.9400	11	15	0.050	0.99	
tert-Butylbenzene	1.2496m	1.1127	1.3766	1.3352	1.7076	1.6800	1.8039	2.0307	1.9478	QUAD	R	0.78318	0.54779	-0.00024	ug/L	1.5827	0.998	15	0.050	0.99	
1,2,4-Trimethylbenzene	1.2609	1.2199	1.7210	1.9397	2.3226	2.3454	2.3810	2.5633	2.5212	QUAD	R	0.52275	0.41683	-0.00010	ug/L	2.0305	0.999	15	0.050	0.99	
sec-Butylbenzene	1.8104	1.5996	2.1906	2.0528	2.7246	2.5685	2.7484	3.1180	2.9506	QUAD	R	0.75126	0.35572	-8.93E-5	ug/L	2.4182	0.997	15	0.050	0.99	
para-Isopropyl Toluene	1.3233	1.2429	1.6875	1.7706	2.2909	2.2144	2.3888	2.7039	2.5911	QUAD	R	0.81937	0.41341	-0.00015	ug/L	2.0237	0.998	15	0.050	0.99	
1,3-Dichlorobenzene	1.3806m	1.2086	1.4546	1.3676	1.4453	1.3925	1.3596	1.4419	1.4021	AVRG	R		0.72273		ug/L	1.3836	5	15	0.050	0.99	
1,4-Dichlorobenzene	1.7743	1.6114	1.6707	1.5620	1.5462	1.4671	1.4323	1.4997	1.4713	AVRG	R		0.64126		ug/L	1.5594	7	15	0.050	0.99	
n-Butylbenzene	1.7363	1.5416	1.8368	1.6915	2.2213	2.1318	2.2989	2.6353	2.4884	QUAD	R	0.79925	0.42658	-0.00015	ug/L	2.0647	0.997	15	0.050	0.99	
1,2-Dichlorobenzene	1.2867	1.2166	1.3823	1.2992	1.3883	1.3517	1.3610	1.4025	1.3909	AVRG	R		0.74508		ug/L	1.3421	5	15	0.050	0.99	
1,2-Dibromo-3-Chloropropane	0.1797	0.0841	0.1634m	0.1511	0.1616	0.1530	0.1655	0.1790	0.1783	QUAD	R	0.30810	6.19872	-0.03676	ug/L	0.1573	0.999	15	0.050	0.99	
1,2,4-Trichlorobenzene	0.8569m	0.8114	0.8146	0.8207	0.9505	0.9892	1.0100	1.0912	1.0836	AVRG	R		1.06785		ug/L	0.9365	12	15	0.050	0.99	

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Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Hexachlorobutadiene		0.2980	0.4378	0.3602	0.4030	0.3473	0.3613	0.4110	0.3780	AVRG	R		2.66969		ug/L	0.3746	12	15	0.050	0.99	
Naphthalene	1.1797	1.1733	1.5062	1.7496	2.2576	2.6088	2.8790	3.1113		QUAD	R	0.81183	0.38540	-0.00029	ug/L	2.0582	1.000	15	0.050	0.99	
1,2,3-Trichlorobenzene		0.6756m	0.8266	0.8882	0.9762	0.9984	1.0287	1.0878	1.0644	AVRG	R		1.06017		ug/L	0.9432	15	15	0.050	0.99	
tert-Butyl Alcohol (TBA)		0.0331m	0.0328	0.0325	0.0351	0.0384	0.0407	0.0443	0.0484	AVRG	R		26.2038		ug/L	0.0382	15	15	0.005	0.99	
Isopropyl Ether (DIPE)	1.5107m	1.3915	1.4657	1.4728	1.7827	1.9428	2.1434	2.1851	2.1843	QUAD	R	0.88363	0.47058	-8.60E-5	ug/L	1.7865	1.000	15	0.050	0.99	
Ethyl tert-Butyl Ether (ETBE)	1.1600m	1.0112	1.1090	1.1503	1.3594	1.5123	1.6815	1.7390	1.7506	QUAD	R	0.92249	0.60718	-0.00025	ug/L	1.3859	1.000	15	0.050	0.99	
Methyl tert-Amyl Ether (TAME)	0.7097m	0.6744	0.7124	0.7425	0.8473	0.8992	0.9837	1.0153	1.0297	QUAD	R	0.66920	1.04797	-0.00084	ug/L	0.8460	1.000	15	0.050	0.99	
Cyclohexanone	0.0894m	0.0596	0.0451	0.0790	0.0394	0.0511	0.0799	0.0958		QUAD	R	11.0159	15.8043	-0.07778	ug/L	0.0674	0.994	15	0.005	0.99	
Ethanol	0.0083m	0.0073	0.0071	0.0061	0.0070	0.0073	0.0068	0.0072	0.0073	AVRG	R		139.997		ug/L	0.0071	8	15	0.0005	0.99	
Isopropanol			0.0289	0.0230	0.0268	0.0285	0.0282	0.0307	0.0325	AVRG	R		35.2585		ug/L	0.0284	11	15	0.005	0.99	
Tetrahydrofuran	0.1584	0.1436	0.1533	0.1665	0.2022	0.2104	0.2129	0.2205	0.2152	LINR	R	5.59859	4.58672		ug/L	0.1870	1.000	15	0.005	0.99	
Dibromofluoromethane	0.5804	0.5822	0.5533	0.5427	0.5323	0.5267	0.5182	0.5132	0.5050	AVRG	R		1.85411		ug/L	0.5393	5	15	0.050	0.99	
1,2-Dichloroethane-d4	0.4554	0.4595	0.4611	0.4635	0.4541	0.4501	0.4483	0.4379	0.4364	AVRG	R		2.21324		ug/L	0.4518	2	15	0.050	0.99	
Trifluorotoluene	0.3857m	0.3478	0.4334	0.3548	0.4325	0.3918	0.4035	0.4393	0.4275	AVRG	R		2.48874		ug/L	0.4018	9	15	0.050	0.99	
Toluene-d8	1.1121	1.1179	1.1463	1.1678	1.1841	1.1872	1.2121	1.1921	1.1729	AVRG	R		0.85776		ug/L	1.1658	3	15	0.050	0.99	
Bromofluorobenzene	0.9226	0.9108	0.9184	0.9516	0.9192	0.9498	0.9533	0.9538	0.9535	AVRG	R		1.06722		ug/L	0.9370	2	15	0.050	0.99	

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m=manual integration

AVRG=Average response factor LINR=Linear regression QUAD=Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

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Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC808.D
Report Date: 09-Mar-2006 09:21

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC808.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 08-MAR-2006 13:32 MS Autotune Date: 10-JAN-2006 07:50
Operator : LW Inst ID: MSVOA07.i
Smp Info : ICAL,S2844,0.0005/1000,S2783,0.001/1000,
Misc Info : S2410,0.0005/1000,0.5/0.25 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\826GOX7.m
Meth Date : 09-Mar-2006 09:04 target Quant Type: ISTD
Cal Date : 08-MAR-2006 13:32 Cal File: GC808.D
Als bottle: 8 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.207	4.201	(0.415)	4146	0.50000	0.6304(M)
2 Chloromethane	50	4.614	4.614	(0.455)	6955	0.50000	0.2341(a)
3 Vinyl Chloride	62	4.815	4.815	(0.475)	4460	0.50000	0.6825(M)
4 Bromomethane	94	5.466	5.466	(0.539)	3995	0.50000	0.2910(aM)
5 Chloroethane	64	5.630	5.630	(0.556)	2461	0.50000	0.5259
6 Trichlorofluoromethane	101	6.008	6.008	(0.593)	5247	0.50000	0.6562
7 Ethanol	45	6.269	6.269	(0.619)	1868	25.0000	28.9132(AM)
8 Freon 113	101	6.780	6.774	(0.669)	870	0.25000	0.2164(a)
9 1,1-Dichloroethene	96	6.871	6.871	(0.678)	688	0.25000	0.2035(a)
10 Acetone	43	6.981	6.969	(0.689)	1610	0.25000	0.8047(M)
12 Carbon Disulfide	76	7.285	7.285	(0.719)	7276	0.25000	0.4224(a)
13 Methylene Chloride	84	7.638	7.638	(0.754)	2275	0.25000	0.4217(a)
15 MTBE	73	7.918	7.912	(0.781)	2739	0.25000	0.9737(M)
16 trans-1,2-Dichloroethene	96	7.985	7.985	(0.788)	1184	0.25000	0.2490(a)
17 Isopropyl Ether (DIPE)	45	8.538	8.538	(0.843)	3416	0.25000	1.0613(AM)
18 Vinyl Acetate	43	8.611	8.605	(0.850)	2299	0.25000	0.5271
19 1,1-Dichloroethane	63	8.654	8.660	(0.854)	2717	0.25000	0.2668(a)
20 Ethyl tert-Butyl Ether (ETBE)	59	9.080	9.068	(0.896)	2623	0.25000	1.0985(AM)
22 2,2-Dichloropropane	77	9.487	9.487	(0.936)	1364	0.25000	0.2115(a)
23 cis-1,2-Dichloroethene	96	9.512	9.500	(0.939)	1009	0.25000	0.2065(aM)
25 Tetrahydrofuran	42	9.877	9.877	(0.975)	3581	2.50000	7.4145(A)
26 Chloroform	83	9.913	9.913	(0.978)	2656	0.25000	0.2802(a)

LW
3-9-06

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC808.D
Report Date: 09-Mar-2006 09:21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 27 Pentafluorobenzene	168	10.132	10.126	(1.000)	452240	50.0000	
$ 28 Dibromofluoromethane	113	10.163	10.163	(1.003)	262478	50.0000	53.8059
29 1,1,1-Trichloroethane	97	10.211	10.211	(1.008)	1999	0.25000	0.2633(a)
30 Carbon Tetrachloride	117	10.412	10.424	(0.923)	1608	0.25000	0.2494(a)
31 1,1-Dichloropropene	75	10.436	10.443	(0.925)	1451	0.25000	0.2350(aM)
$ 32 1,2-Dichloroethane-d4	65	10.734	10.735	(0.951)	376709	50.0000	50.3996
33 Benzene	78	10.765	10.765	(0.954)	6809	0.25000	0.2914(a)
34 Methyl tert-Amyl Ether (TAME)	73	10.777	10.771	(0.955)	2935	0.25000	0.8551(AM)
35 1,2-Dichloroethane	62	10.856	10.850	(0.962)	2220	0.25000	0.2482(aM)
* 36 1,4-Difluorobenzene	114	11.282	11.282	(1.000)	827135	50.0000	
37 Trichloroethene	95	11.690	11.696	(1.036)	1182	0.25000	0.2425(a)
$ 38 Trifluorotoluene	146	12.055	12.067	(1.068)	1595	0.25000	0.2399(aAM)
39 1,2-Dichloropropane	63	12.109	12.109	(1.073)	1063	0.25000	0.1864(a)
40 Dibromomethane	93	12.292	12.298	(1.090)	538	0.25000	0.1601(a)
41 Bromodichloromethane	83	12.450	12.456	(1.104)	1564	0.25000	0.2282(a)
42 2-Chloroethylvinylether	63	12.809	12.815	(1.135)	768	0.50000	2.0718
43 Tetramethyl THF	43	13.052	13.052	(1.157)	1776	0.25000	1.2592(AM)
44 cis-1,3-Dichloropropene	75	13.083	13.089	(1.160)	1616	0.25000	0.7591
$ 46 Toluene-d8	98	13.436	13.430	(1.191)	919832	50.0000	47.6942
47 Toluene	92	13.527	13.527	(1.199)	3452	0.25000	0.2569(a)
48 trans-1,3-Dichloropropene	75	13.849	13.849	(1.228)	1774	0.25000	0.2315(a)
50 Tetrachloroethene	166	14.245	14.251	(0.926)	1051	0.25000	0.2397(a)
52 1,3-Dichloropropane	76	14.372	14.366	(0.934)	1882	0.25000	0.2111(aM)
53 Dibromochloromethane	129	14.640	14.640	(0.952)	722	0.25000	0.1614(a)
54 1,2-Dibromoethane	107	14.853	14.853	(1.317)	1058	0.25000	0.2238(a)
* 55 Chlorobenzene-d5	117	15.382	15.382	(1.000)	765434	50.0000	
56 Chlorobenzene	112	15.419	15.419	(1.002)	4127	0.25000	0.2662(a)
57 Ethylbenzene	91	15.474	15.474	(1.006)	5398	0.25000	0.2326(a)
58 1,1,1,2-Tetrachloroethane	131	15.492	15.498	(1.007)	1278	0.25000	0.2463(aM)
59 m,p-Xylenes	106	15.614	15.614	(1.015)	3535	0.50000	1.3362
60 o-Xylene	106	16.118	16.118	(1.048)	1499	0.25000	0.9676(M)
61 Styrene	104	16.137	16.137	(1.049)	1948	0.25000	1.0943
62 Bromoform	173	16.429	16.435	(1.068)	820	0.25000	0.2611(a)
63 Isopropylbenzene	105	16.514	16.514	(0.912)	2982	0.25000	1.0110
64 Cyclohexanone	55	16.775	16.751	(0.927)	1906	2.50000	14.5459(AM)
$ 65 Bromofluorobenzene	95	16.775	16.776	(0.927)	393208	50.0000	49.2297
66 1,1,2,2-Tetrachloroethane	83	16.909	16.909	(0.934)	2066	0.25000	0.2940(a)
67 Bromobenzene	156	16.982	16.982	(0.938)	1641	0.25000	0.2756(a)
68 Propylbenzene	91	16.994	16.988	(0.939)	5510	0.25000	0.2182(a)
69 1,2,3-Trichloropropane	75	17.001	17.007	(0.939)	1799	0.25000	0.2533(a)
70 2-Chlorotoluene	91	17.165	17.165	(0.948)	4235	0.25000	0.2321(a)
71 1,3,5-Trimethylbenzene	105	17.165	17.171	(0.948)	3545	0.25000	0.6856
72 4-Chlorotoluene	91	17.287	17.280	(0.955)	3742	0.25000	0.2262(a)
73 tert-Butylbenzene	119	17.548	17.548	(0.969)	2663	0.25000	0.9542(M)
74 1,2,4-Trimethylbenzene	105	17.615	17.609	(0.973)	2687	0.25000	0.6541
75 sec-Butylbenzene	105	17.798	17.798	(0.983)	3858	0.25000	0.9122
76 para-Isopropyl Toluene	119	17.937	17.937	(0.991)	2820	0.25000	0.9561
77 1,3-Dichlorobenzene	146	18.029	18.023	(0.996)	2942	0.25000	0.2494(aM)
* 78 1,4-Dichlorobenzene-d4	152	18.102	18.102	(1.000)	426205	50.0000	
79 1,4-Dichlorobenzene	146	18.132	18.132	(1.002)	3781	0.25000	0.2844(a)
80 n-Butylbenzene	91	18.418	18.418	(1.017)	3700	0.25000	0.9843
81 1,2-Dichlorobenzene	146	18.594	18.595	(1.027)	2742	0.25000	0.2396(a)
82 1,2-Dibromo-3-Chloropropane	75	19.562	19.580	(1.081)	383	0.25000	0.5865
83 1,2,4-Trichlorobenzene	180	20.693	20.693	(1.143)	1826	0.25000	0.2287(aM)

LW 3-9-06

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC808.D
Report Date: 09-Mar-2006 09:21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
85 Naphthalene	128	21.125	21.125	(1.167)	2514	0.25000	0.9254
86 1,2,3-Trichlorobenzene	180	21.521	21.515	(1.189)	1634	0.25000	0.2032(aM)

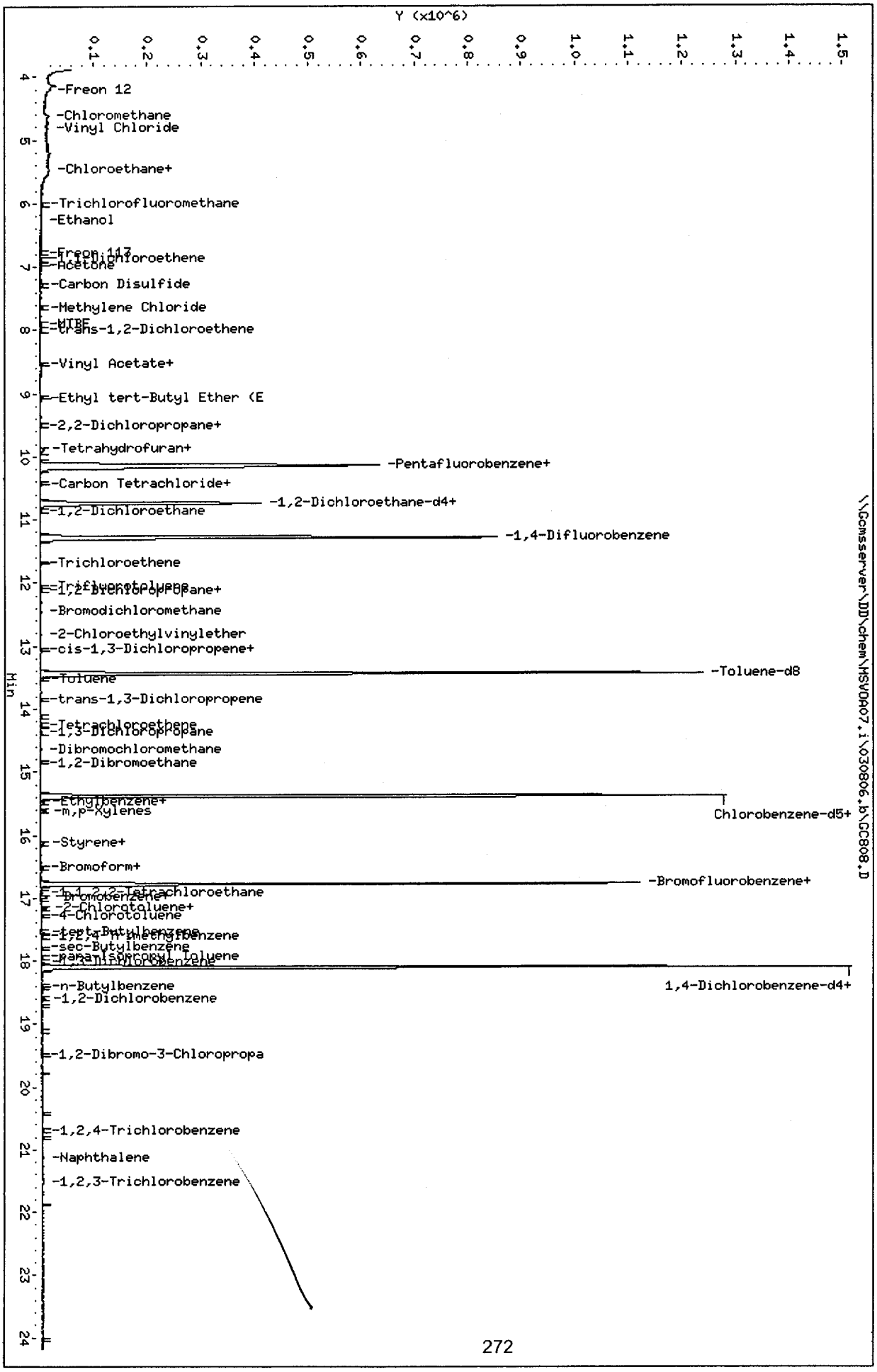
LW 3-9-06

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA07.i\030806.b\GC808.D
Date : 08-MAR-2006 13:32
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.0005/1000,S2783,0.001/1000,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA07.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC809.D
Report Date: 09-Mar-2006 09:21

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC809.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 08-MAR-2006 14:03 MS Autotune Date: 10-JAN-2006 07:50
Operator : LW Inst ID: MSVOA07.i
Smp Info : ICAL,S2844,0.001/1000,S2783,0.002/1000,
Misc Info : S2410,0.001/1000,1.0/0.5 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\826GOX7.m
Meth Date : 09-Mar-2006 09:04 target Quant Type: ISTD
Cal Date : 08-MAR-2006 14:03 Cal File: GC809.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.201	4.201	(0.415)	8014	1.00000	1.2492(M)
2 Chloromethane	50	4.620	4.614	(0.456)	10689	1.00000	0.7641
3 Vinyl Chloride	62	4.815	4.815	(0.475)	8597	1.00000	1.3717(M)
4 Bromomethane	94	5.466	5.466	(0.539)	5590	1.00000	0.7413
5 Chloroethane	64	5.630	5.630	(0.556)	5436	1.00000	1.1908
6 Trichlorofluoromethane	101	6.013	6.008	(0.594)	9686	1.00000	1.2417
7 Ethanol	45	6.275	6.269	(0.619)	3225	50.0000	51.1697(A)
8 Freon 113	101	6.780	6.774	(0.669)	1878	0.50000	0.4790(a)
9 1,1-Dichloroethene	96	6.883	6.871	(0.679)	1590	0.50000	0.4823(aM)
10 Acetone	43	6.975	6.969	(0.688)	1840	0.50000	0.9428
12 Carbon Disulfide	76	7.285	7.285	(0.719)	10477	0.50000	0.6236
13 Methylene Chloride	84	7.638	7.638	(0.754)	3240	0.50000	0.6157
14 tert-Butyl Alcohol (TBA)	59	7.644	7.632	(0.754)	1460	5.00000	4.3359(AM)
15 MTBE	73	7.918	7.912	(0.781)	5095	0.50000	1.1338(M)
16 trans-1,2-Dichloroethene	96	7.985	7.985	(0.788)	2454	0.50000	0.5290
17 Isopropyl Ether (DIPE)	45	8.544	8.538	(0.843)	6139	0.50000	1.2110(A)
18 Vinyl Acetate	43	8.605	8.605	(0.849)	4237	0.50000	0.6801
19 1,1-Dichloroethane	63	8.666	8.660	(0.855)	5441	0.50000	0.5478
20 Ethyl tert-Butyl Ether (ETBE)	59	9.067	9.068	(0.895)	4461	0.50000	1.2294(A)
22 2,2-Dichloropropane	77	9.487	9.487	(0.936)	3499	0.50000	0.5563
23 cis-1,2-Dichloroethene	96	9.499	9.500	(0.938)	2349	0.50000	0.4928(aM)
24 Bromochloromethane	128	9.877	9.871	(0.975)	1151	0.50000	0.4563(a)

LW 3-9-06

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC809.D
Report Date: 09-Mar-2006 09:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	25 Tetrahydrofuran	42	9.877	9.877	(0.975)	6337	5.00000	8.8927(A)
	26 Chloroform	83	9.913	9.913	(0.978)	4362	0.50000	0.4717(a)
*	27 Pentafluorobenzene	168	10.132	10.126	(1.000)	441170	50.0000	
$	28 Dibromofluoromethane	113	10.162	10.163	(1.003)	256832	50.0000	53.9696
	29 1,1,1-Trichloroethane	97	10.217	10.211	(1.008)	3896	0.50000	0.5260
	30 Carbon Tetrachloride	117	10.418	10.424	(0.923)	3405	0.50000	0.5406
	31 1,1-Dichloropropene	75	10.436	10.443	(0.925)	2665	0.50000	0.4418(a)
$	32 1,2-Dichloroethane-d4	65	10.734	10.735	(0.951)	371376	50.0000	50.8535
	33 Benzene	78	10.759	10.765	(0.954)	10860	0.50000	0.4758(a)
	34 Methyl tert-Amyl Ether (TAME)	73	10.771	10.771	(0.955)	5450	0.50000	1.0224(A)
	35 1,2-Dichloroethane	62	10.850	10.850	(0.962)	4503	0.50000	0.5154
*	36 1,4-Difluorobenzene	114	11.282	11.282	(1.000)	808147	50.0000	
	37 Trichloroethene	95	11.696	11.696	(1.037)	2192	0.50000	0.4602(a)
$	38 Trifluorotoluene	146	12.073	12.067	(1.070)	2811	0.50000	0.4328(aA)
	39 1,2-Dichloropropane	63	12.109	12.109	(1.073)	2459	0.50000	0.4414(a)
	40 Dibromomethane	93	12.298	12.298	(1.090)	1592	0.50000	0.4849(a)
	41 Bromodichloromethane	83	12.450	12.456	(1.104)	3010	0.50000	0.4496(a)
	42 2-Chloroethylvinylether	63	12.821	12.815	(1.136)	1424	1.00000	2.3043
	43 Tetramethyl THF	43	13.046	13.052	(1.156)	2763	0.50000	1.3453(AM) LW 3-9-06
	44 cis-1,3-Dichloropropene	75	13.083	13.089	(1.160)	2692	0.50000	0.8774
	45 4-Methyl-2-Pentanone	43	13.229	13.229	(1.173)	1988	0.50000	2.0202
$	46 Toluene-d8	98	13.429	13.430	(1.190)	903454	50.0000	47.9456
	47 Toluene	92	13.527	13.527	(1.199)	6024	0.50000	0.4589(a)
	48 trans-1,3-Dichloropropene	75	13.849	13.849	(1.228)	2920	0.50000	0.3900(a)
	49 1,1,2-Trichloroethane	85	14.117	14.117	(1.251)	1228	0.50000	0.4534(a)
	50 Tetrachloroethene	166	14.251	14.251	(0.926)	1991	0.50000	0.4646(a)
	52 1,3-Dichloropropane	76	14.366	14.366	(0.934)	3795	0.50000	0.4356(a)
	53 Dibromochloromethane	129	14.646	14.640	(0.952)	1756	0.50000	0.4016(a)
	54 1,2-Dibromoethane	107	14.853	14.853	(1.317)	2042	0.50000	0.4421(a)
*	55 Chlorobenzene-d5	117	15.382	15.382	(1.000)	748235	50.0000	
	56 Chlorobenzene	112	15.413	15.419	(1.002)	7546	0.50000	0.4980(a)
	57 Ethylbenzene	91	15.473	15.474	(1.006)	9630	0.50000	0.4246(a)
	58 1,1,1,2-Tetrachloroethane	131	15.504	15.498	(1.008)	2417	0.50000	0.4766(a)
	59 m,p-Xylenes	106	15.613	15.614	(1.015)	5886	1.00000	1.5870
	60 o-Xylene	106	16.112	16.118	(1.047)	2538	0.50000	1.0865
	61 Styrene	104	16.143	16.137	(1.049)	3581	0.50000	1.1974
	62 Bromoform	173	16.435	16.435	(1.068)	1256	0.50000	0.4092(a)
	63 Isopropylbenzene	105	16.520	16.514	(0.913)	5623	0.50000	1.1432
	64 Cyclohexanone	55	16.769	16.751	(0.926)	2536	5.00000	15.7183(A)
$	65 Bromofluorobenzene	95	16.775	16.776	(0.927)	387572	50.0000	48.6003
	66 1,1,2,2-Tetrachloroethane	83	16.909	16.909	(0.934)	3495	0.50000	0.4981(a)
	67 Bromobenzene	156	16.988	16.982	(0.938)	2576	0.50000	0.4333(a)
	68 Propylbenzene	91	16.988	16.988	(0.938)	10095	0.50000	0.4004(a)
	69 1,2,3-Trichloropropane	75	17.006	17.007	(0.940)	3436	0.50000	0.4846(a)
	70 2-Chlorotoluene	91	17.165	17.165	(0.948)	7373	0.50000	0.4048(a)
	71 1,3,5-Trimethylbenzene	105	17.177	17.171	(0.949)	5632	0.50000	0.7934
	72 4-Chlorotoluene	91	17.280	17.280	(0.955)	6411	0.50000	0.3882(a)
	73 tert-Butylbenzene	119	17.548	17.548	(0.969)	4735	0.50000	1.0878
	74 1,2,4-Trimethylbenzene	105	17.609	17.609	(0.973)	5191	0.50000	0.7769
	75 sec-Butylbenzene	105	17.797	17.798	(0.983)	6807	0.50000	1.0357
	76 para-Isopropyl Toluene	119	17.937	17.937	(0.991)	5289	0.50000	1.0762
	77 1,3-Dichlorobenzene	146	18.022	18.023	(0.996)	5143	0.50000	0.4367(a)
*	78 1,4-Dichlorobenzene-d4	152	18.102	18.102	(1.000)	425537	50.0000	
	79 1,4-Dichlorobenzene	146	18.126	18.132	(1.001)	6857	0.50000	0.5166

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC809.D
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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
80 n-Butylbenzene	91	18.418	18.418	(1.017)	6560	0.50000	1.1279
81 1,2-Dichlorobenzene	146	18.600	18.595	(1.028)	5177	0.50000	0.4532(a)
82 1,2-Dibromo-3-Chloropropane	75	19.580	19.580	(1.082)	358	0.50000	0.5687
83 1,2,4-Trichlorobenzene	180	20.687	20.693	(1.143)	3453	0.50000	0.4332(a)
84 Hexachlorobutadiene	225	20.815	20.815	(1.150)	1268	0.50000	0.3977(a)
85 Naphthalene	128	21.125	21.125	(1.167)	4993	0.50000	1.0378
86 1,2,3-Trichlorobenzene	180	21.508	21.515	(1.188)	2875	0.50000	0.3581(aM)

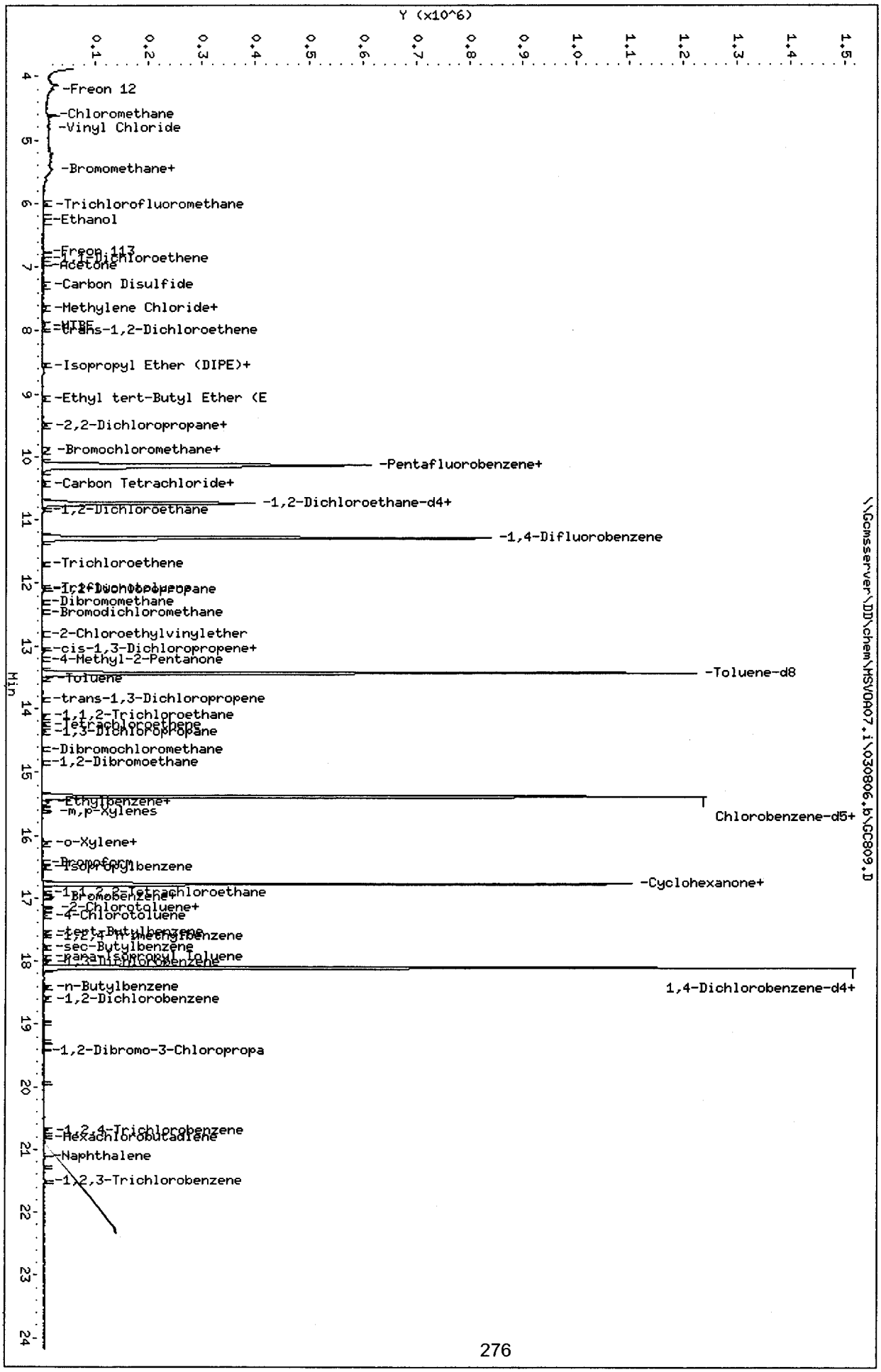
LW 3-9-06

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC809.D
Date : 08-MAR-2006 14:03
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.001/1000,S2783,0.002/1000,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA07.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC810.D
Report Date: 09-Mar-2006 09:21

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC810.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 08-MAR-2006 14:34 MS Autotune Date: 10-JAN-2006 07:50
Operator : LW Inst ID: MSVOA07.i
Smp Info : ICAL,S2844,0.002/500,S2783,0.002/500,
Misc Info : S2410,0.001/500,2 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\826GOX7.m
Meth Date : 09-Mar-2006 09:04 target Quant Type: ISTD
Cal Date : 08-MAR-2006 14:34 Cal File: GC810.D
Als bottle: 10 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.207	4.201	(0.415)	13976	2.00000	2.0627(M)
2 Chloromethane	50	4.620	4.614	(0.456)	21216	2.00000	2.0408
3 Vinyl Chloride	62	4.815	4.815	(0.475)	17440	2.00000	2.6564(M)
4 Bromomethane	94	5.466	5.466	(0.539)	10734	2.00000	1.9580
5 Chloroethane	64	5.630	5.630	(0.556)	10851	2.00000	2.2506(M)
6 Trichlorofluoromethane	101	6.014	6.008	(0.594)	17605	2.00000	2.1369
7 Ethanol	45	6.269	6.269	(0.619)	13258	200.000	199.1735(A)
8 Freon 113	101	6.780	6.774	(0.669)	9752	2.00000	2.3551
9 1,1-Dichloroethene	96	6.871	6.871	(0.678)	7644	2.00000	2.1954
10 Acetone	43	6.981	6.969	(0.689)	5370	2.00000	2.6052(M)
11 Isopropanol	45	7.060	7.048	(0.697)	5388	20.0000	20.3856(A)
12 Carbon Disulfide	76	7.285	7.285	(0.719)	42496	2.00000	2.3950
13 Methylene Chloride	84	7.638	7.638	(0.754)	12533	2.00000	2.2552
14 tert-Butyl Alcohol (TBA)	59	7.632	7.632	(0.753)	6117	20.0000	17.2003(A)
15 MTBE	73	7.918	7.912	(0.781)	23440	2.00000	2.2624(M)
16 trans-1,2-Dichloroethene	96	7.991	7.985	(0.789)	10394	2.00000	2.1217
17 Isopropyl Ether (DIPE)	45	8.544	8.538	(0.843)	27317	2.00000	2.2623(A)
18 Vinyl Acetate	43	8.605	8.605	(0.849)	18709	2.00000	1.7137
19 1,1-Dichloroethane	63	8.654	8.660	(0.854)	22106	2.00000	2.1076
20 Ethyl tert-Butyl Ether (ETBE)	59	9.067	9.068	(0.895)	20669	2.00000	2.2679(A)
21 2-Butanone	43	9.469	9.469	(0.935)	4958	2.00000	1.8823
22 2,2-Dichloropropane	77	9.481	9.487	(0.936)	14428	2.00000	2.1722

2m/
3906

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC810.D
Report Date: 09-Mar-2006 09:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.505	9.500	(0.938)	9863	2.00000	1.9593
	24 Bromochloromethane	128	9.877	9.871	(0.975)	5995	2.00000	2.2505
	25 Tetrahydrofuran	42	9.883	9.877	(0.975)	28565	20.0000	19.6581(A)
	26 Chloroform	83	9.919	9.913	(0.979)	21106	2.00000	2.1611
*	27 Pentafluorobenzene	168	10.132	10.126	(1.000)	465946	50.0000	
$	28 Dibromofluoromethane	113	10.163	10.163	(1.003)	257811	50.0000	51.2946
	29 1,1,1-Trichloroethane	97	10.217	10.211	(1.008)	17941	2.00000	2.2937
	30 Carbon Tetrachloride	117	10.430	10.424	(0.925)	13845	2.00000	2.1900
	31 1,1-Dichloropropene	75	10.442	10.443	(0.926)	12040	2.00000	1.9887
$	32 1,2-Dichloroethane-d4	65	10.734	10.735	(0.951)	374071	50.0000	51.0300
	33 Benzene	78	10.765	10.765	(0.954)	48097	2.00000	2.0994
	34 Methyl tert-Amyl Ether (TAME)	73	10.771	10.771	(0.955)	23115	2.00000	2.1605(A)
	35 1,2-Dichloroethane	62	10.850	10.850	(0.962)	18463	2.00000	2.1055
*	36 1,4-Difluorobenzene	114	11.282	11.282	(1.000)	811196	50.0000	
	37 Trichloroethene	95	11.696	11.696	(1.037)	10492	2.00000	2.1948
$	38 Trifluorotoluene	146	12.067	12.067	(1.070)	14062	2.00000	2.1571(A)
	39 1,2-Dichloropropane	63	12.109	12.109	(1.073)	11501	2.00000	2.0571
	40 Dibromomethane	93	12.292	12.298	(1.090)	6994	2.00000	2.1223
	41 Bromodichloromethane	83	12.450	12.456	(1.104)	14075	2.00000	2.0948
	42 2-Chloroethylvinylether	63	12.815	12.815	(1.136)	3409	2.00000	2.9839
	43 Tetramethyl THF	43	13.052	13.052	(1.157)	14106	2.00000	2.2905(A)
	44 cis-1,3-Dichloropropene	75	13.089	13.089	(1.160)	12605	2.00000	1.9261
	45 4-Methyl-2-Pentanone	43	13.235	13.229	(1.173)	7871	2.00000	2.9660
$	46 Toluene-d8	98	13.435	13.430	(1.191)	929897	50.0000	49.1634
	47 Toluene	92	13.527	13.527	(1.199)	26823	2.00000	2.0358
	48 trans-1,3-Dichloropropene	75	13.849	13.849	(1.228)	13721	2.00000	1.8258
	49 1,1,2-Trichloroethane	85	14.117	14.117	(1.251)	5517	2.00000	2.0297
	50 Tetrachloroethene	166	14.251	14.251	(0.926)	9868	2.00000	2.2548
	51 2-Hexanone	43	14.348	14.348	(0.933)	4978	2.00000	3.3096
	52 1,3-Dichloropropane	76	14.360	14.366	(0.934)	17275	2.00000	1.9415
	53 Dibromochloromethane	129	14.646	14.640	(0.952)	8650	2.00000	1.9371
	54 1,2-Dibromoethane	107	14.847	14.853	(1.316)	8690	2.00000	1.8744
*	55 Chlorobenzene-d5	117	15.382	15.382	(1.000)	764184	50.0000	
	56 Chlorobenzene	112	15.419	15.419	(1.002)	33192	2.00000	2.1452
	57 Ethylbenzene	91	15.473	15.474	(1.006)	44352	2.00000	1.9147
	58 1,1,1,2-Tetrachloroethane	131	15.504	15.498	(1.008)	10661	2.00000	2.0585(M) LW 3-9-06
	59 m,p-Xylenes	106	15.613	15.614	(1.015)	30882	4.00000	4.0985
	60 o-Xylene	106	16.118	16.118	(1.048)	12388	2.00000	2.1484
	61 Styrene	104	16.137	16.137	(1.049)	19342	2.00000	2.1410
	62 Bromoform	173	16.435	16.435	(1.068)	6033	2.00000	1.9248
	63 Isopropylbenzene	105	16.520	16.514	(0.913)	29185	2.00000	2.2538
	64 Cyclohexanone	55	16.763	16.751	(0.926)	8038	20.0000	25.2024(A)
$	65 Bromofluorobenzene	95	16.775	16.776	(0.927)	409393	50.0000	49.0091
	66 1,1,2,2-Tetrachloroethane	83	16.909	16.909	(0.934)	15054	2.00000	2.0485
	67 Bromobenzene	156	16.982	16.982	(0.938)	13096	2.00000	2.1033
	68 Propylbenzene	91	16.988	16.988	(0.938)	49838	2.00000	1.8872
	69 1,2,3-Trichloropropane	75	17.007	17.007	(0.940)	15530	2.00000	2.0912
	70 2-Chlorotoluene	91	17.165	17.165	(0.948)	36738	2.00000	1.9259
	71 1,3,5-Trimethylbenzene	105	17.171	17.171	(0.949)	30736	2.00000	2.0149
	72 4-Chlorotoluene	91	17.280	17.280	(0.955)	32760	2.00000	1.8941
	73 tert-Butylbenzene	119	17.548	17.548	(0.969)	24545	2.00000	2.2895
	74 1,2,4-Trimethylbenzene	105	17.615	17.609	(0.973)	30686	2.00000	1.9563
	75 sec-Butylbenzene	105	17.797	17.798	(0.983)	39058	2.00000	2.3080
	76 para-Isopropyl Toluene	119	17.937	17.937	(0.991)	30088	2.00000	2.2129

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC810.D
Report Date: 09-Mar-2006 09:21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.029	18.023	(0.996)	25936	2.00000	2.1026
* 78 1,4-Dichlorobenzene-d4	152	18.102	18.102	(1.000)	445746	50.0000	
79 1,4-Dichlorobenzene	146	18.132	18.132	(1.002)	29789	2.00000	2.1427
80 n-Butylbenzene	91	18.418	18.418	(1.017)	32750	2.00000	2.3643
81 1,2-Dichlorobenzene	146	18.600	18.595	(1.028)	24646	2.00000	2.0598
82 1,2-Dibromo-3-Chloropropane	75	19.568	19.580	(1.081)	2913	2.00000	2.3296 (M) LW 3-9-06
83 1,2,4-Trichlorobenzene	180	20.693	20.693	(1.143)	14524	2.00000	1.7397
84 Hexachlorobutadiene	225	20.815	20.815	(1.150)	7806	2.00000	2.3376
85 Naphthalene	128	21.131	21.125	(1.167)	26855	2.00000	1.9701
86 1,2,3-Trichlorobenzene	180	21.508	21.515	(1.188)	14739	2.00000	1.7527

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC810.D
Date : 08-MAR-2006 14:34
Client ID: DYNA P&T
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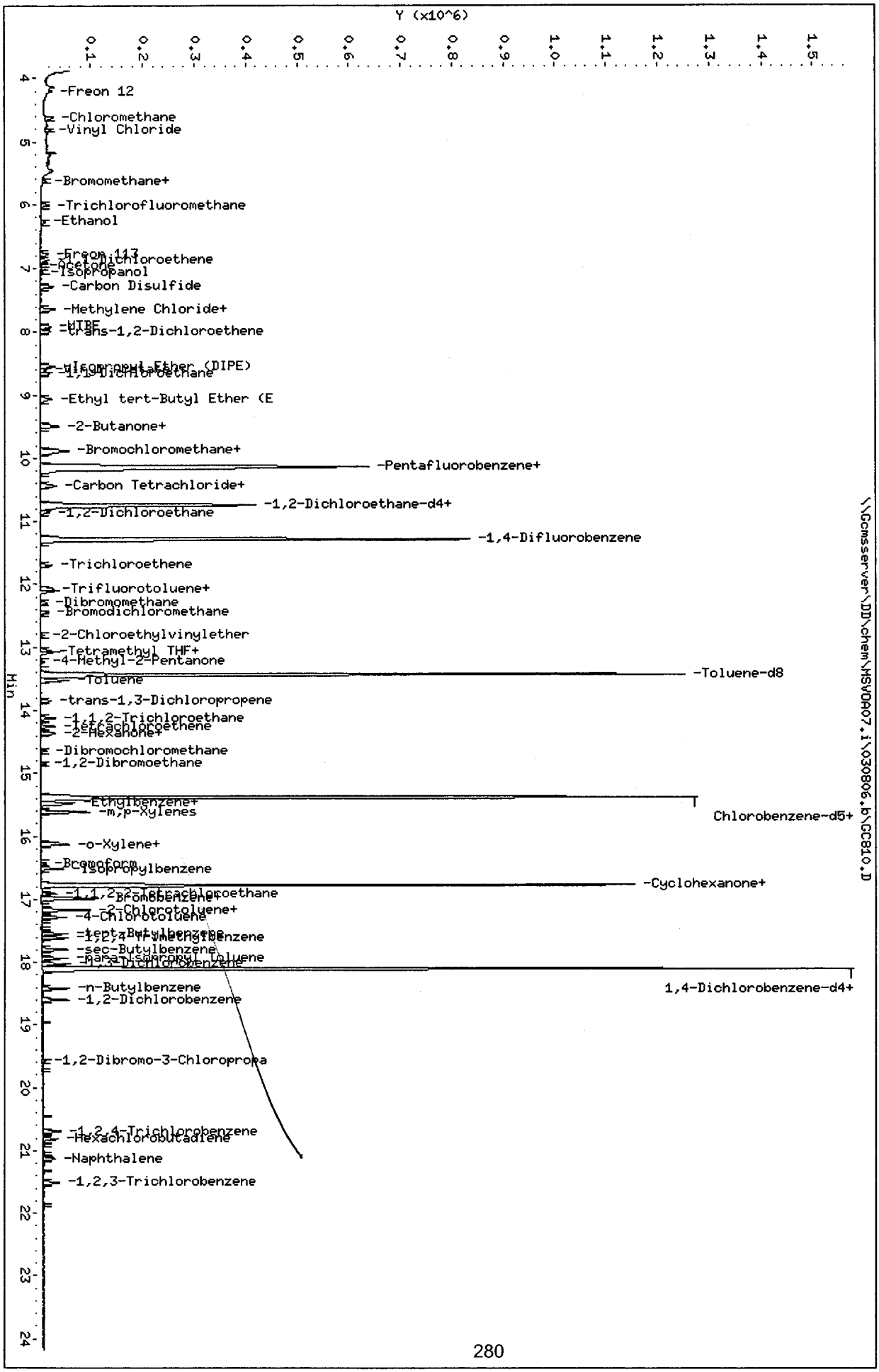
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA07.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC811.D
Report Date: 09-Mar-2006 09:21

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC811.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 08-MAR-2006 15:05 MS Autotune Date: 10-JAN-2006 07:50
Operator : LW Inst ID: MSVOA07.i
Smp Info : ICAL,S2844,0.002/200,S2783,0.002/200,
Misc Info : S2410,0.001/200,5 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\826GOX7.m
Meth Date : 09-Mar-2006 09:04 target Quant Type: ISTD
Cal Date : 08-MAR-2006 15:05 Cal File: GC811.D
Als bottle: 11 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.207	4.201	(0.415)	29341	5.00000	4.2119
2 Chloromethane	50	4.621	4.614	(0.456)	45876	5.00000	5.0545
3 Vinyl Chloride	62	4.815	4.815	(0.475)	34783	5.00000	5.1751
4 Bromomethane	94	5.472	5.466	(0.540)	23885	5.00000	5.1081
5 Chloroethane	64	5.636	5.630	(0.556)	25156	5.00000	5.0748
6 Trichlorofluoromethane	101	6.008	6.008	(0.593)	36932	5.00000	4.3602
7 Ethanol	45	6.275	6.269	(0.619)	29186	500.000	426.4557(A)
8 Freon 113	101	6.774	6.774	(0.669)	17665	5.00000	4.1493
9 1,1-Dichloroethene	96	6.878	6.871	(0.679)	16658	5.00000	4.6534
10 Acetone	43	6.975	6.969	(0.688)	11234	5.00000	5.3009
11 Isopropanol	45	7.054	7.048	(0.696)	11016	50.0000	40.5384(A)
12 Carbon Disulfide	76	7.285	7.285	(0.719)	84659	5.00000	4.6406
13 Methylene Chloride	84	7.644	7.638	(0.754)	29672	5.00000	5.1932
14 tert-Butyl Alcohol (TBA)	59	7.632	7.632	(0.753)	15590	50.0000	42.6373(A)
15 MTBE	73	7.912	7.912	(0.781)	59377	5.00000	4.4018
16 trans-1,2-Dichloroethene	96	7.985	7.985	(0.788)	23395	5.00000	4.6448
17 Isopropyl Ether (DIPE)	45	8.544	8.538	(0.843)	70557	5.00000	4.3443(A)
18 Vinyl Acetate	43	8.605	8.605	(0.849)	49818	5.00000	3.8738
19 1,1-Dichloroethane	63	8.660	8.660	(0.855)	52916	5.00000	4.9070
20 Ethyl tert-Butyl Ether (ETBE)	59	9.074	9.068	(0.896)	55108	5.00000	4.4064(A)
21 2-Butanone	43	9.475	9.469	(0.935)	12472	5.00000	4.6055
22 2,2-Dichloropropane	77	9.487	9.487	(0.936)	33054	5.00000	4.8402

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC811.D
Report Date: 09-Mar-2006 09:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.500	9.500	(0.938)	24694	5.00000	4.7713
	24 Bromochloromethane	128	9.871	9.871	(0.974)	13395	5.00000	4.8908
	25 Tetrahydrofuran	42	9.883	9.877	(0.975)	79775	50.0000	43.7885(A)
	26 Chloroform	83	9.913	9.913	(0.978)	49935	5.00000	4.9730
*	27 Pentafluorobenzene	168	10.132	10.126	(1.000)	479060	50.0000	
$	28 Dibromofluoromethane	113	10.163	10.163	(1.003)	260009	50.0000	50.3158
	29 1,1,1-Trichloroethane	97	10.211	10.211	(1.008)	38719	5.00000	4.8148
	30 Carbon Tetrachloride	117	10.424	10.424	(0.924)	28513	5.00000	4.4882
	31 1,1-Dichloropropene	75	10.449	10.443	(0.926)	26556	5.00000	4.3651
$	32 1,2-Dichloroethane-d4	65	10.735	10.735	(0.951)	377849	50.0000	51.2941
	33 Benzene	78	10.765	10.765	(0.954)	112634	5.00000	4.8924
	34 Methyl tert-Amyl Ether (TAME)	73	10.777	10.771	(0.955)	60527	5.00000	4.5482(A)
	35 1,2-Dichloroethane	62	10.850	10.850	(0.962)	44212	5.00000	5.0173
*	36 1,4-Difluorobenzene	114	11.282	11.282	(1.000)	815169	50.0000	
	37 Trichloroethene	95	11.696	11.696	(1.037)	22704	5.00000	4.7264
$	38 Trifluorotoluene	146	12.067	12.067	(1.070)	28925	5.00000	4.4154(A)
	39 1,2-Dichloropropane	63	12.109	12.109	(1.073)	27091	5.00000	4.8221
	40 Dibromomethane	93	12.304	12.298	(1.091)	17294	5.00000	5.2222
	41 Bromodichloromethane	83	12.456	12.456	(1.104)	32863	5.00000	4.8673
	42 2-Chloroethylvinylether	63	12.809	12.815	(1.135)	7853	5.00000	4.4905
	-43 Tetramethyl THF	43	13.052	13.052	(1.157)	38069	5.00000	4.2698(A)
	44 cis-1,3-Dichloropropene	75	13.089	13.089	(1.160)	37037	5.00000	4.4924
	45 4-Methyl-2-Pentanone	43	13.235	13.229	(1.173)	20642	5.00000	4.9998
$	46 Toluene-d8	98	13.436	13.430	(1.191)	951972	50.0000	50.0852
	47 Toluene	92	13.527	13.527	(1.199)	63252	5.00000	4.7773
	48 trans-1,3-Dichloropropene	75	13.849	13.849	(1.228)	32818	5.00000	4.3456
	49 1,1,2-Trichloroethane	85	14.117	14.117	(1.251)	13807	5.00000	5.0548
	50 Tetrachloroethene	166	14.251	14.251	(0.926)	20196	5.00000	4.5593
	51 2-Hexanone	43	14.354	14.348	(0.933)	12612	5.00000	5.2545
	52 1,3-Dichloropropane	76	14.366	14.366	(0.934)	42451	5.00000	4.7137
	53 Dibromochloromethane	129	14.640	14.640	(0.952)	21016	5.00000	4.6499
	54 1,2-Dibromoethane	107	14.853	14.853	(1.317)	21628	5.00000	4.6423
*	55 Chlorobenzene-d5	117	15.382	15.382	(1.000)	773485	50.0000	
	56 Chlorobenzene	112	15.419	15.419	(1.002)	77459	5.00000	4.9459
	57 Ethylbenzene	91	15.474	15.474	(1.006)	108286	5.00000	4.6187
	58 1,1,1,2-Tetrachloroethane	131	15.498	15.498	(1.008)	25760	5.00000	4.9141
	59 m,p-Xylenes	106	15.614	15.614	(1.015)	81264	10.0000	9.0806
	60 o-Xylene	106	16.118	16.118	(1.048)	33636	5.00000	4.4015
	61 Styrene	104	16.137	16.137	(1.049)	55851	5.00000	4.2926
	62 Bromoform	173	16.435	16.435	(1.068)	14195	5.00000	4.4744
	63 Isopropylbenzene	105	16.520	16.514	(0.913)	76563	5.00000	4.3702
	64 Cyclohexanone	55	16.757	16.751	(0.926)	36591	50.0000	72.2392(A)
$	65 Bromofluorobenzene	95	16.775	16.776	(0.927)	440692	50.0000	50.7788
	66 1,1,2,2-Tetrachloroethane	83	16.909	16.909	(0.934)	36414	5.00000	4.7696
	67 Bromobenzene	156	16.982	16.982	(0.938)	30693	5.00000	4.7447
	68 Propylbenzene	91	16.988	16.988	(0.939)	125611	5.00000	4.5782
	69 1,2,3-Trichloropropane	75	17.001	17.007	(0.939)	38167	5.00000	4.9469
	70 2-Chlorotoluene	91	17.165	17.165	(0.948)	94733	5.00000	4.7802
	71 1,3,5-Trimethylbenzene	105	17.171	17.171	(0.949)	86423	5.00000	4.5882
	72 4-Chlorotoluene	91	17.287	17.280	(0.955)	88075	5.00000	4.9016
	73 tert-Butylbenzene	119	17.548	17.548	(0.969)	61835	5.00000	4.4294
	74 1,2,4-Trimethylbenzene	105	17.615	17.609	(0.973)	89827	5.00000	4.5557
	75 sec-Butylbenzene	105	17.798	17.798	(0.983)	95065	5.00000	4.3929
	76 para-Isopropyl Toluene	119	17.937	17.937	(0.991)	81999	5.00000	4.4679

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC811.D
Report Date: 09-Mar-2006 09:21

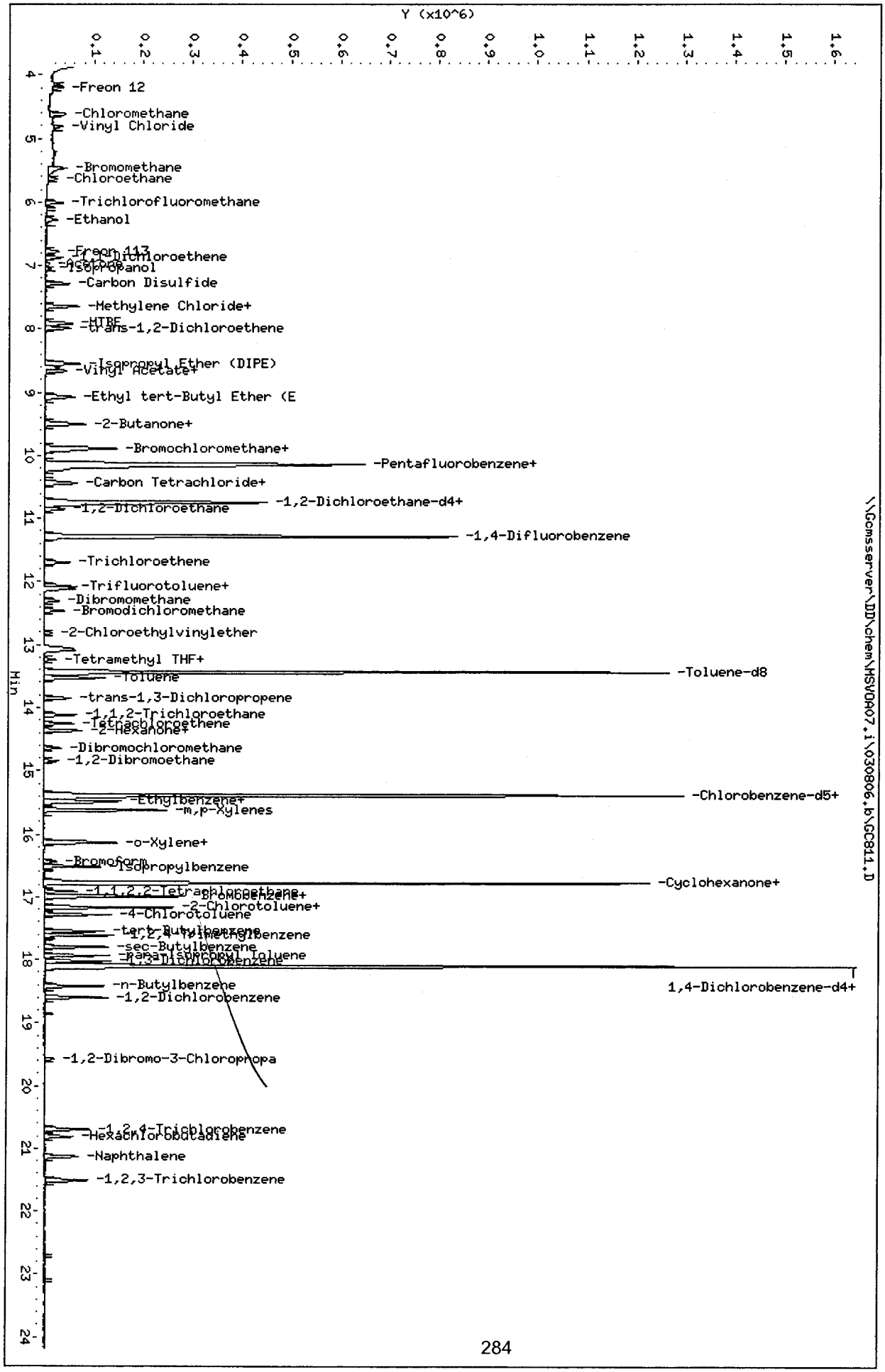
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.023	18.023	(0.996)	63333	5.00000	4.9419
* 78 1,4-Dichlorobenzene-d4	152	18.102	18.102	(1.000)	463102	50.0000	
79 1,4-Dichlorobenzene	146	18.132	18.132	(1.002)	72337	5.00000	5.0082
80 n-Butylbenzene	91	18.418	18.418	(1.017)	78334	5.00000	4.3964
81 1,2-Dichlorobenzene	146	18.594	18.595	(1.027)	60168	5.00000	4.8401
82 1,2-Dibromo-3-Chloropropane	75	19.580	19.580	(1.082)	6999	5.00000	4.9712
83 1,2,4-Trichlorobenzene	180	20.693	20.693	(1.143)	38006	5.00000	4.3818
84 Hexachlorobutadiene	225	20.815	20.815	(1.150)	16682	5.00000	4.8084
85 Naphthalene	128	21.131	21.125	(1.167)	81024	5.00000	4.1610
86 1,2,3-Trichlorobenzene	180	21.509	21.515	(1.188)	41132	5.00000	4.7081

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Ccmsserver\DD\chem\MSVOA07.i\030806.b\CC811.D
Date : 08-MAR-2006 15:05
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.002/200,S2783,0.002/200,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA07.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC812.D
Report Date: 09-Mar-2006 09:22

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC812.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 08-MAR-2006 15:36 MS Autotune Date: 10-JAN-2006 07:50
Operator : LW Inst ID: MSVOA07.i
Smp Info : ICAL,S2844,0.002/100,S2783,0.002/100,
Misc Info : S2410,0.001/100,10 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\826GOX7.m
Meth Date : 09-Mar-2006 09:04 target Quant Type: ISTD
Cal Date : 08-MAR-2006 15:36 Cal File: GC812.D
Als bottle: 12 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.207	4.201	(0.415)	76155	10.0000	10.6188
2 Chloromethane	50	4.620	4.614	(0.456)	95101	10.0000	10.8925
3 Vinyl Chloride	62	4.815	4.815	(0.476)	78729	10.0000	11.4061
4 Bromomethane	94	5.466	5.466	(0.540)	47425	10.0000	10.5529
5 Chloroethane	64	5.630	5.630	(0.556)	50285	10.0000	9.8535(M) LW 3-9-06
6 Trichlorofluoromethane	101	6.007	6.008	(0.593)	93498	10.0000	10.7222
7 Ethanol	45	6.269	6.269	(0.619)	69019	1000.00	979.5846(A)
8 Freon 113	101	6.774	6.774	(0.669)	52274	10.0000	11.9268
9 1,1-Dichloroethene	96	6.877	6.871	(0.679)	38914	10.0000	10.5592
10 Acetone	43	6.969	6.969	(0.688)	20782	10.0000	9.5253
11 Isopropanol	45	7.048	7.048	(0.696)	26437	100.000	94.4995(A)
12 Carbon Disulfide	76	7.285	7.285	(0.719)	191034	10.0000	10.1715
13 Methylene Chloride	84	7.644	7.638	(0.755)	59914	10.0000	10.1857
14 tert-Butyl Alcohol (TBA)	59	7.638	7.632	(0.754)	34603	100.000	91.9246(A)
15 MTBE	73	7.912	7.912	(0.781)	145198	10.0000	9.3283
16 trans-1,2-Dichloroethene	96	7.985	7.985	(0.789)	53290	10.0000	10.2770
17 Isopropyl Ether (DIPE)	45	8.544	8.538	(0.844)	175844	10.0000	9.2454(A)
18 Vinyl Acetate	43	8.605	8.605	(0.850)	133079	10.0000	9.4854
19 1,1-Dichloroethane	63	8.660	8.660	(0.855)	113015	10.0000	10.1799
20 Ethyl tert-Butyl Ether (ETBE)	59	9.067	9.068	(0.895)	134087	10.0000	9.1299(A)
21 2-Butanone	43	9.475	9.469	(0.936)	27017	10.0000	9.6908
22 2,2-Dichloropropane	77	9.487	9.487	(0.937)	75785	10.0000	10.7795

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC812.D
Report Date: 09-Mar-2006 09:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.505	9.500	(0.939)	53963	10.0000	10.1278
	24 Bromochloromethane	128	9.870	9.871	(0.975)	29124	10.0000	10.3292
	25 Tetrahydrofuran	42	9.877	9.877	(0.975)	199480	100.000	98.3574(A)
	26 Chloroform	83	9.913	9.913	(0.979)	107164	10.0000	10.3667
*	27 Pentafluorobenzene	168	10.126	10.126	(1.000)	493192	50.0000	
$	28 Dibromofluoromethane	113	10.162	10.163	(1.004)	262548	50.0000	49.3513
	29 1,1,1-Trichloroethane	97	10.217	10.211	(1.009)	86493	10.0000	10.4474
	30 Carbon Tetrachloride	117	10.424	10.424	(0.924)	68959	10.0000	10.5862
	31 1,1-Dichloropropene	75	10.442	10.443	(0.926)	65493	10.0000	10.4988
$	32 1,2-Dichloroethane-d4	65	10.734	10.735	(0.951)	379583	50.0000	50.2538
	33 Benzene	78	10.759	10.765	(0.954)	241587	10.0000	10.2339
	34 Methyl tert-Amyl Ether (TAME)	73	10.777	10.771	(0.955)	141638	10.0000	9.4878(A)
	35 1,2-Dichloroethane	62	10.850	10.850	(0.962)	93717	10.0000	10.3720
*	36 1,4-Difluorobenzene	114	11.282	11.282	(1.000)	835862	50.0000	
	37 Trichloroethene	95	11.696	11.696	(1.037)	51318	10.0000	10.4187
$	38 Trifluorotoluene	146	12.067	12.067	(1.070)	72302	10.0000	10.7637(A)
	39 1,2-Dichloropropane	63	12.109	12.109	(1.073)	59755	10.0000	10.3729
	40 Dibromomethane	93	12.298	12.298	(1.090)	36650	10.0000	10.7931
	41 Bromodichloromethane	83	12.456	12.456	(1.104)	71830	10.0000	10.3754
	42 2-Chloroethylvinylether	63	12.821	12.815	(1.136)	19480	10.0000	8.2466
	43 Tetramethyl THF	43	13.052	13.052	(1.157)	98226	10.0000	9.0306(A)
	44 cis-1,3-Dichloropropene	75	13.089	13.089	(1.160)	89616	10.0000	9.7874
	45 4-Methyl-2-Pentanone	43	13.229	13.229	(1.173)	51780	10.0000	9.7390
$	46 Toluene-d8	98	13.429	13.430	(1.190)	989750	50.0000	50.7837
	47 Toluene	92	13.527	13.527	(1.199)	138790	10.0000	10.2231
	48 trans-1,3-Dichloropropene	75	13.855	13.849	(1.228)	76046	10.0000	9.8205
	49 1,1,2-Trichloroethane	85	14.117	14.117	(1.251)	28993	10.0000	10.3517
	50 Tetrachloroethene	166	14.251	14.251	(0.926)	48872	10.0000	10.7348
	51 2-Hexanone	43	14.348	14.348	(0.933)	30319	10.0000	9.5502
	52 1,3-Dichloropropane	76	14.366	14.366	(0.934)	97265	10.0000	10.5082
	53 Dibromochloromethane	129	14.640	14.640	(0.952)	45913	10.0000	9.8839
	54 1,2-Dibromoethane	107	14.853	14.853	(1.317)	48458	10.0000	10.1438
*	55 Chlorobenzene-d5	117	15.382	15.382	(1.000)	794980	50.0000	
	56 Chlorobenzene	112	15.419	15.419	(1.002)	162925	10.0000	10.1219
	57 Ethylbenzene	91	15.473	15.474	(1.006)	252387	10.0000	10.4739
	58 1,1,1,2-Tetrachloroethane	131	15.498	15.498	(1.008)	54748	10.0000	10.1617
	59 m,p-Xylenes	106	15.613	15.614	(1.015)	199358	20.0000	20.2753
	60 o-Xylene	106	16.118	16.118	(1.048)	84120	10.0000	9.5177
	61 Styrene	104	16.137	16.137	(1.049)	147541	10.0000	9.4689
	62 Bromoform	173	16.435	16.435	(1.068)	31702	10.0000	9.7226
	63 Isopropylbenzene	105	16.520	16.514	(0.913)	206556	10.0000	9.8563
	64 Cyclohexanone	55	16.751	16.751	(0.925)	38249	100.000	72.1087(A)
$	65 Bromofluorobenzene	95	16.775	16.776	(0.927)	445960	50.0000	49.0514
	66 1,1,2,2-Tetrachloroethane	83	16.909	16.909	(0.934)	79649	10.0000	9.9587
	67 Bromobenzene	156	16.982	16.982	(0.938)	69787	10.0000	10.2981
	68 Propylbenzene	91	16.988	16.988	(0.938)	308816	10.0000	10.7443
	69 1,2,3-Trichloropropane	75	17.007	17.007	(0.940)	83422	10.0000	10.3214
	70 2-Chlorotoluene	91	17.165	17.165	(0.948)	220952	10.0000	10.6427
	71 1,3,5-Trimethylbenzene	105	17.171	17.171	(0.949)	217343	10.0000	10.2758
	72 4-Chlorotoluene	91	17.286	17.280	(0.955)	197189	10.0000	10.4756
	73 tert-Butylbenzene	119	17.548	17.548	(0.969)	165681	10.0000	10.0658
	74 1,2,4-Trimethylbenzene	105	17.615	17.609	(0.973)	225356	10.0000	10.1493
	75 sec-Butylbenzene	105	17.797	17.798	(0.983)	264366	10.0000	10.3770
	76 para-Isopropyl Toluene	119	17.937	17.937	(0.991)	222285	10.0000	10.2139

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC812.D
Report Date: 09-Mar-2006 09:22

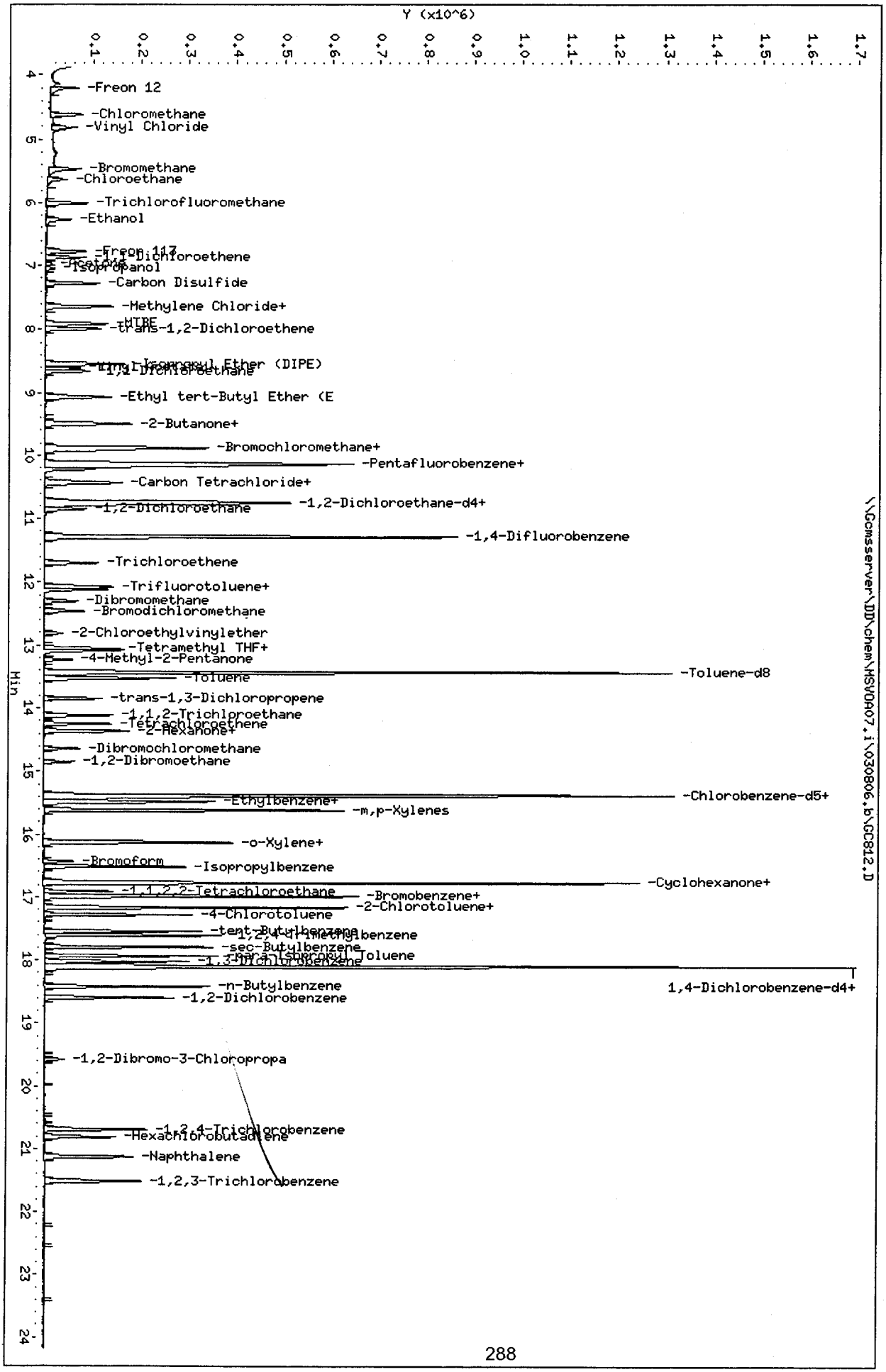
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.029	18.023	(0.996)	140233	10.0000	10.4455
* 78 1,4-Dichlorobenzene-d4	152	18.102	18.102	(1.000)	485141	50.0000	
79 1,4-Dichlorobenzene	146	18.132	18.132	(1.002)	150021	10.0000	9.9148
80 n-Butylbenzene	91	18.418	18.418	(1.017)	215528	10.0000	10.2016
81 1,2-Dichlorobenzene	146	18.600	18.595	(1.028)	134709	10.0000	10.3443
82 1,2-Dibromo-3-Chloropropane	75	19.580	19.580	(1.082)	15675	10.0000	10.2262
83 1,2,4-Trichlorobenzene	180	20.693	20.693	(1.143)	92225	10.0000	10.1498
84 Hexachlorobutadiene	225	20.815	20.815	(1.150)	39100	10.0000	10.7582
85 Naphthalene	128	21.131	21.125	(1.167)	219054	10.0000	9.3644
86 1,2,3-Trichlorobenzene	180	21.514	21.515	(1.189)	94722	10.0000	10.3496

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA07.i\030806.b\GC812.D
Date : 08-MAR-2006 15:36
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.002/100,S2783,0.002/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA07.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC813.D
Report Date: 09-Mar-2006 09:22

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC813.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 08-MAR-2006 16:07 MS Autotune Date: 10-JAN-2006 07:50
Operator : LW Inst ID: MSVOA07.i
Smp Info : ICAL,S2844,0.004/100,S2783,0.004/100,
Misc Info : S2410,0.002/100,20 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\826GOX7.m
Meth Date : 09-Mar-2006 09:04 target Quant Type: ISTD
Cal Date : 08-MAR-2006 16:07 Cal File: GC813.D
Als bottle: 13 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.207	4.201	(0.415)	131497	20.0000	17.6507
2 Chloromethane	50	4.614	4.614	(0.456)	179231	20.0000	20.3758
3 Vinyl Chloride	62	4.815	4.815	(0.476)	140317	20.0000	19.5865
4 Bromomethane	94	5.466	5.466	(0.540)	91767	20.0000	20.3299
5 Chloroethane	64	5.630	5.630	(0.556)	96474	20.0000	18.1983(M) LW 3-9-06
6 Trichlorofluoromethane	101	6.008	6.008	(0.593)	160734	20.0000	17.7442
7 Ethanol	45	6.269	6.269	(0.619)	148592	2000.00	2030.1899(A)
8 Freon 113	101	6.774	6.774	(0.669)	90371	20.0000	19.8489
9 1,1-Dichloroethene	96	6.871	6.871	(0.679)	74902	20.0000	19.5654
10 Acetone	43	6.969	6.969	(0.688)	40443	20.0000	17.8445
11 Isopropanol	45	7.048	7.048	(0.696)	58335	200.000	200.7310(A)
12 Carbon Disulfide	76	7.285	7.285	(0.719)	364159	20.0000	18.6653
13 Methylene Chloride	84	7.638	7.638	(0.754)	120850	20.0000	19.7778
14 tert-Butyl Alcohol (TBA)	59	7.632	7.632	(0.754)	78592	200.000	200.9853(A)
15 MTBE	73	7.912	7.912	(0.781)	328063	20.0000	19.2165
16 trans-1,2-Dichloroethene	96	7.985	7.985	(0.789)	107127	20.0000	19.8879
17 Isopropyl Ether (DIPE)	45	8.544	8.538	(0.844)	398139	20.0000	19.0386(A)
18 Vinyl Acetate	43	8.605	8.605	(0.850)	296469	20.0000	19.9354
19 1,1-Dichloroethane	63	8.660	8.660	(0.855)	225916	20.0000	19.5896
20 Ethyl tert-Butyl Ether (ETBE)	59	9.068	9.068	(0.895)	309926	20.0000	19.0581(A)
21 2-Butanone	43	9.469	9.469	(0.935)	55612	20.0000	19.2025
22 2,2-Dichloropropane	77	9.487	9.487	(0.937)	141062	20.0000	19.3150

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC813.D
Report Date: 09-Mar-2006 09:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.500	9.500	(0.938)	114540	20.0000	20.6940
	24 Bromochloromethane	128	9.871	9.871	(0.975)	58577	20.0000	19.9992
	25 Tetrahydrofuran	42	9.877	9.877	(0.975)	431123	200.000	198.5844(A)
	26 Chloroform	83	9.913	9.913	(0.979)	212107	20.0000	19.7522
*	27 Pentafluorobenzene	168	10.126	10.126	(1.000)	512328	50.0000	
$	28 Dibromofluoromethane	113	10.163	10.163	(1.004)	269851	50.0000	48.8294
	29 1,1,1-Trichloroethane	97	10.211	10.211	(1.008)	161631	20.0000	18.7940
	30 Carbon Tetrachloride	117	10.418	10.424	(0.923)	126408	20.0000	18.6551
	31 1,1-Dichloropropene	75	10.442	10.443	(0.926)	126191	20.0000	19.4468
$	32 1,2-Dichloroethane-d4	65	10.734	10.735	(0.951)	391330	50.0000	49.8057
	33 Benzene	78	10.759	10.765	(0.954)	478444	20.0000	19.4837
	34 Methyl tert-Amyl Ether (TAME)	73	10.777	10.771	(0.955)	312721	20.0000	19.2430(A)
	35 1,2-Dichloroethane	62	10.850	10.850	(0.962)	186296	20.0000	19.8208
*	36 1,4-Difluorobenzene	114	11.282	11.282	(1.000)	869484	50.0000	
	37 Trichloroethene	95	11.696	11.696	(1.037)	98715	20.0000	19.2664
$	38 Trifluorotoluene	146	12.073	12.067	(1.070)	136270	20.0000	19.5023(A)
	39 1,2-Dichloropropane	63	12.109	12.109	(1.073)	125072	20.0000	20.8718
	40 Dibromomethane	93	12.298	12.298	(1.090)	74288	20.0000	21.0312
	41 Bromodichloromethane	83	12.456	12.456	(1.104)	146316	20.0000	20.3172
	42 2-Chloroethylvinylether	63	12.815	12.815	(1.136)	50279	20.0000	17.4996
	43 Tetramethyl THF	43	13.052	13.052	(1.157)	231509	20.0000	18.9339(A)
	44 cis-1,3-Dichloropropene	75	13.089	13.089	(1.160)	193571	20.0000	19.6493
	45 4-Methyl-2-Pentanone	43	13.229	13.229	(1.173)	117159	20.0000	19.0334
$	46 Toluene-d8	98	13.430	13.430	(1.190)	1032275	50.0000	50.9175
	47 Toluene	92	13.527	13.527	(1.199)	278796	20.0000	19.7416
	48 trans-1,3-Dichloropropene	75	13.849	13.849	(1.228)	165887	20.0000	20.5942
	49 1,1,2-Trichloroethane	85	14.117	14.117	(1.251)	57254	20.0000	19.6516
	50 Tetrachloroethene	166	14.251	14.251	(0.926)	90934	20.0000	19.2894
	51 2-Hexanone	43	14.348	14.348	(0.933)	70497	20.0000	18.6994
	52 1,3-Dichloropropane	76	14.366	14.366	(0.934)	206400	20.0000	21.5348
	53 Dibromochloromethane	129	14.640	14.640	(0.952)	98087	20.0000	20.3922
	54 1,2-Dibromoethane	107	14.853	14.853	(1.317)	102321	20.0000	20.5908
*	55 Chlorobenzene-d5	117	15.382	15.382	(1.000)	823187	50.0000	
	56 Chlorobenzene	112	15.419	15.419	(1.002)	324442	20.0000	19.4657
	57 Ethylbenzene	91	15.474	15.474	(1.006)	514021	20.0000	20.6007
	58 1,1,1,2-Tetrachloroethane	131	15.498	15.498	(1.008)	112606	20.0000	20.1846
	59 m,p-Xylenes	106	15.614	15.614	(1.015)	411161	40.0000	39.2739
	60 o-Xylene	106	16.118	16.118	(1.048)	188090	20.0000	19.4556
	61 Styrene	104	16.137	16.137	(1.049)	331259	20.0000	19.2669
	62 Bromoform	173	16.435	16.435	(1.068)	66486	20.0000	19.6917
	63 Isopropylbenzene	105	16.520	16.514	(0.913)	437428	20.0000	18.9728
	64 Cyclohexanone	55	16.751	16.751	(0.925)	103491	200.000	164.3855(A)
$	65 Bromofluorobenzene	95	16.775	16.776	(0.927)	480986	50.0000	50.6820
	66 1,1,2,2-Tetrachloroethane	83	16.909	16.909	(0.934)	162804	20.0000	19.5009
	67 Bromobenzene	156	16.982	16.982	(0.938)	142308	20.0000	20.1177
	68 Propylbenzene	91	16.988	16.988	(0.938)	620033	20.0000	20.6661
	69 1,2,3-Trichloropropane	75	17.007	17.007	(0.940)	169500	20.0000	20.0906
	70 2-Chlorotoluene	91	17.165	17.165	(0.948)	451420	20.0000	20.8306
	71 1,3,5-Trimethylbenzene	105	17.171	17.171	(0.949)	445215	20.0000	19.5706
	72 4-Chlorotoluene	91	17.287	17.280	(0.955)	413217	20.0000	21.0300
	73 tert-Butylbenzene	119	17.548	17.548	(0.969)	340315	20.0000	18.9141
	74 1,2,4-Trimethylbenzene	105	17.609	17.609	(0.973)	475086	20.0000	19.8522
	75 sec-Butylbenzene	105	17.798	17.798	(0.983)	520287	20.0000	18.7890
	76 para-Isopropyl Toluene	119	17.937	17.937	(0.991)	448558	20.0000	18.8432

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC813.D
Report Date: 09-Mar-2006 09:22

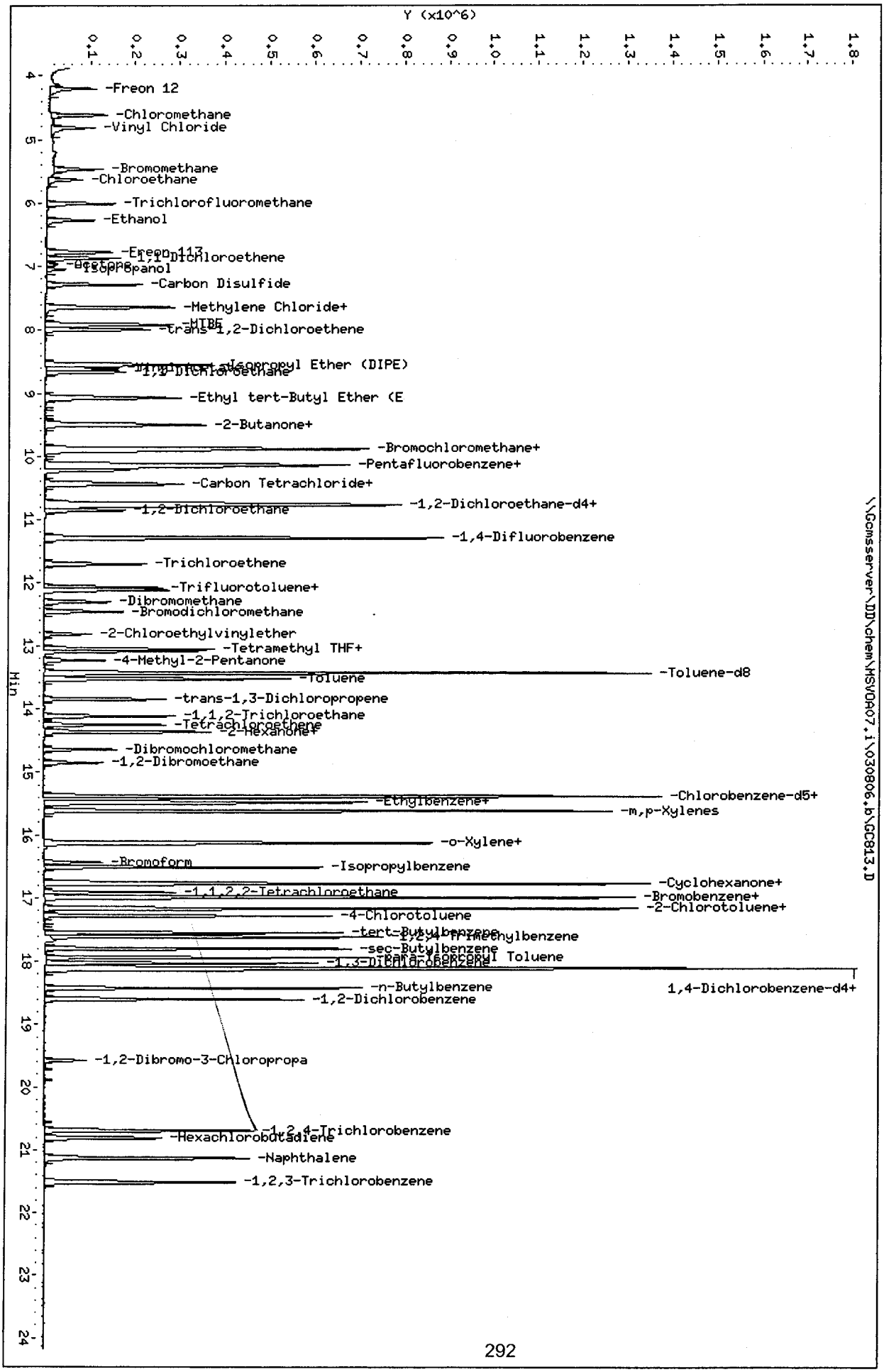
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.029	18.023	(0.996)	282076	20.0000	20.1284
* 78 1,4-Dichlorobenzene-d4	152	18.102	18.102	(1.000)	506410	50.0000	
79 1,4-Dichlorobenzene	146	18.132	18.132	(1.002)	297173	20.0000	18.8152
80 n-Butylbenzene	91	18.418	18.418	(1.017)	431836	20.0000	18.7177
81 1,2-Dichlorobenzene	146	18.594	18.595	(1.027)	273805	20.0000	20.1424
82 1,2-Dibromo-3-Chloropropane	75	19.574	19.580	(1.081)	30985	20.0000	18.9277
83 1,2,4-Trichlorobenzene	180	20.693	20.693	(1.143)	200384	20.0000	21.1271
84 Hexachlorobutadiene	225	20.815	20.815	(1.150)	70356	20.0000	18.5451
85 Naphthalene	128	21.131	21.125	(1.167)	528459	20.0000	20.1288
86 1,2,3-Trichlorobenzene	180	21.515	21.515	(1.189)	202244	20.0000	21.1698

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC813.D
Date : 08-MAR-2006 16:07
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.004/100,S2783,0.004/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA07.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC814.D
Report Date: 09-Mar-2006 09:22

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC814.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 08-MAR-2006 16:38 MS Autotune Date: 10-JAN-2006 07:50
Operator : LW Inst ID: MSVOA07.i
Smp Info : ICAL,S2844,0.01/100,S2783,0.01/100,
Misc Info : S2410,0.005/100,50 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\826GOX7.m
Meth Date : 09-Mar-2006 09:04 target Quant Type: ISTD
Cal Date : 08-MAR-2006 16:38 Cal File: GC814.D
Als bottle: 14 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.207	4.201	(0.415)	310042	50.0000	39.3295
2 Chloromethane	50	4.614	4.614	(0.456)	430912	50.0000	47.5228
3 Vinyl Chloride	62	4.815	4.815	(0.476)	333294	50.0000	43.9962
4 Bromomethane	94	5.466	5.466	(0.540)	227508	50.0000	48.8346
5 Chloroethane	64	5.630	5.630	(0.556)	238176	50.0000	42.4592
6 Trichlorofluoromethane	101	6.007	6.008	(0.593)	373284	50.0000	38.9440
7 Ethanol	45	6.269	6.269	(0.619)	369104	5000.00	4765.8574(A)
8 Freon 113	101	6.774	6.774	(0.669)	228258	50.0000	47.3789
9 1,1-Dichloroethene	96	6.871	6.871	(0.679)	208336	50.0000	51.4295
10 Acetone	43	6.968	6.969	(0.688)	105357	50.0000	43.9315
11 Isopropanol	45	7.048	7.048	(0.696)	152927	500.000	497.3023(A)
12 Carbon Disulfide	76	7.285	7.285	(0.719)	928581	50.0000	44.9796
13 Methylene Chloride	84	7.638	7.638	(0.754)	309754	50.0000	47.9072
14 tert-Butyl Alcohol (TBA)	59	7.632	7.632	(0.754)	220643	500.000	533.2456(A)
15 MTBE	73	7.911	7.912	(0.781)	949264	50.0000	49.9688
16 trans-1,2-Dichloroethene	96	7.991	7.985	(0.789)	278363	50.0000	48.8374
17 Isopropyl Ether (DIPE)	45	8.544	8.538	(0.844)	1161963	50.0000	50.3269(A)
18 Vinyl Acetate	43	8.605	8.605	(0.850)	821001	50.0000	51.5982
19 1,1-Dichloroethane	63	8.660	8.660	(0.855)	580735	50.0000	47.5891
20 Ethyl tert-Butyl Ether (ETBE)	59	9.067	9.068	(0.895)	911560	50.0000	50.1957(A)
21 2-Butanone	43	9.475	9.469	(0.936)	154608	50.0000	50.4514
22 2,2-Dichloropropane	77	9.487	9.487	(0.937)	379959	50.0000	49.1669

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC814.D
Report Date: 09-Mar-2006 09:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.499	9.500	(0.938)	312400	50.0000	53.3396
	24 Bromochloromethane	128	9.870	9.871	(0.975)	152821	50.0000	49.3084
	25 Tetrahydrofuran	42	9.876	9.877	(0.975)	1154084	500.000	493.8153(A)
	26 Chloroform	83	9.913	9.913	(0.979)	545612	50.0000	48.0170
*	27 Pentafluorobenzene	168	10.126	10.126	(1.000)	542122	50.0000	
$	28 Dibromofluoromethane	113	10.162	10.163	(1.004)	280912	50.0000	48.0373
	29 1,1,1-Trichloroethane	97	10.217	10.211	(1.009)	422446	50.0000	46.4214
	30 Carbon Tetrachloride	117	10.424	10.424	(0.924)	337118	50.0000	47.4157
	31 1,1-Dichloropropene	75	10.442	10.443	(0.926)	357851	50.0000	52.5579
$	32 1,2-Dichloroethane-d4	65	10.734	10.735	(0.951)	408962	50.0000	49.6061
	33 Benzene	78	10.765	10.765	(0.954)	1238882	50.0000	48.0826
	34 Methyl tert-Amyl Ether (TAME)	73	10.777	10.771	(0.955)	897405	50.0000	50.1766(A)
	35 1,2-Dichloroethane	62	10.850	10.850	(0.962)	484227	50.0000	49.1002
*	36 1,4-Difluorobenzene	114	11.282	11.282	(1.000)	912316	50.0000	
	37 Trichloroethene	95	11.695	11.696	(1.037)	267170	50.0000	49.6961
$	38 Trifluorotoluene	146	12.067	12.067	(1.070)	368097	50.0000	50.2072(A)
	39 1,2-Dichloropropane	63	12.109	12.109	(1.073)	345491	50.0000	54.9482
	40 Dibromomethane	93	12.298	12.298	(1.090)	194160	50.0000	52.3868
	41 Bromodichloromethane	83	12.456	12.456	(1.104)	391191	50.0000	51.7701
	42 2-Chloroethylvinylether	63	12.815	12.815	(1.136)	173710	50.0000	49.9564
	43 Tetramethyl THF	43	13.052	13.052	(1.157)	683782	50.0000	50.2027(A)
	44 cis-1,3-Dichloropropene	75	13.089	13.089	(1.160)	532001	50.0000	50.2023
	45 4-Methyl-2-Pentanone	43	13.235	13.229	(1.173)	350025	50.0000	49.5571
$	46 Toluene-d8	98	13.429	13.430	(1.190)	1105790	50.0000	51.9829
	47 Toluene	92	13.527	13.527	(1.199)	751672	50.0000	50.7273
	48 trans-1,3-Dichloropropene	75	13.849	13.849	(1.228)	485637	50.0000	57.4593
	49 1,1,2-Trichloroethane	85	14.117	14.117	(1.251)	155851	50.0000	50.9822
	50 Tetrachloroethene	166	14.251	14.251	(0.926)	244708	50.0000	48.0995
	51 2-Hexanone	43	14.348	14.348	(0.933)	225738	50.0000	48.9735
	52 1,3-Dichloropropane	76	14.366	14.366	(0.934)	556883	50.0000	53.8387
	53 Dibromochloromethane	129	14.640	14.640	(0.952)	275587	50.0000	53.0897
	54 1,2-Dibromoethane	107	14.847	14.853	(1.316)	283023	50.0000	54.2809
*	55 Chlorobenzene-d5	117	15.382	15.382	(1.000)	888382	50.0000	
	56 Chlorobenzene	112	15.419	15.419	(1.002)	853381	50.0000	47.4434
	57 Ethylbenzene	91	15.473	15.474	(1.006)	1417526	50.0000	52.6419
	58 1,1,1,2-Tetrachloroethane	131	15.498	15.498	(1.008)	298417	50.0000	49.5658
	59 m,p-Xylenes	106	15.613	15.614	(1.015)	1133480	100.000	97.7018
	60 o-Xylene	106	16.118	16.118	(1.048)	542124	50.0000	49.2601
	61 Styrene	104	16.136	16.137	(1.049)	967129	50.0000	49.4060
	62 Bromoform	173	16.435	16.435	(1.068)	192163	50.0000	52.7378
	63 Isopropylbenzene	105	16.514	16.514	(0.912)	1299207	50.0000	48.6603
	64 Cyclohexanone	55	16.751	16.751	(0.925)	443680	500.000	518.1794(A)
$	65 Bromofluorobenzene	95	16.775	16.776	(0.927)	529495	50.0000	50.8701
	66 1,1,2,2-Tetrachloroethane	83	16.909	16.909	(0.934)	433928	50.0000	47.3900
	67 Bromobenzene	156	16.982	16.982	(0.938)	378415	50.0000	48.7749
	68 Propylbenzene	91	16.988	16.988	(0.938)	1752669	50.0000	53.2628
	69 1,2,3-Trichloropropane	75	17.006	17.007	(0.940)	445857	50.0000	48.1835
	70 2-Chlorotoluene	91	17.165	17.165	(0.948)	1240458	50.0000	52.1896
	71 1,3,5-Trimethylbenzene	105	17.171	17.171	(0.949)	1251317	50.0000	48.4617
	72 4-Chlorotoluene	91	17.286	17.280	(0.955)	1142237	50.0000	53.0026
	73 tert-Butylbenzene	119	17.548	17.548	(0.969)	1001921	50.0000	48.2085
	74 1,2,4-Trimethylbenzene	105	17.615	17.609	(0.973)	1322479	50.0000	48.7122
	75 sec-Butylbenzene	105	17.797	17.798	(0.983)	1526545	50.0000	47.9485
	76 para-Isopropyl Toluene	119	17.937	17.937	(0.991)	1326788	50.0000	48.1229

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC814.D
Report Date: 09-Mar-2006 09:22

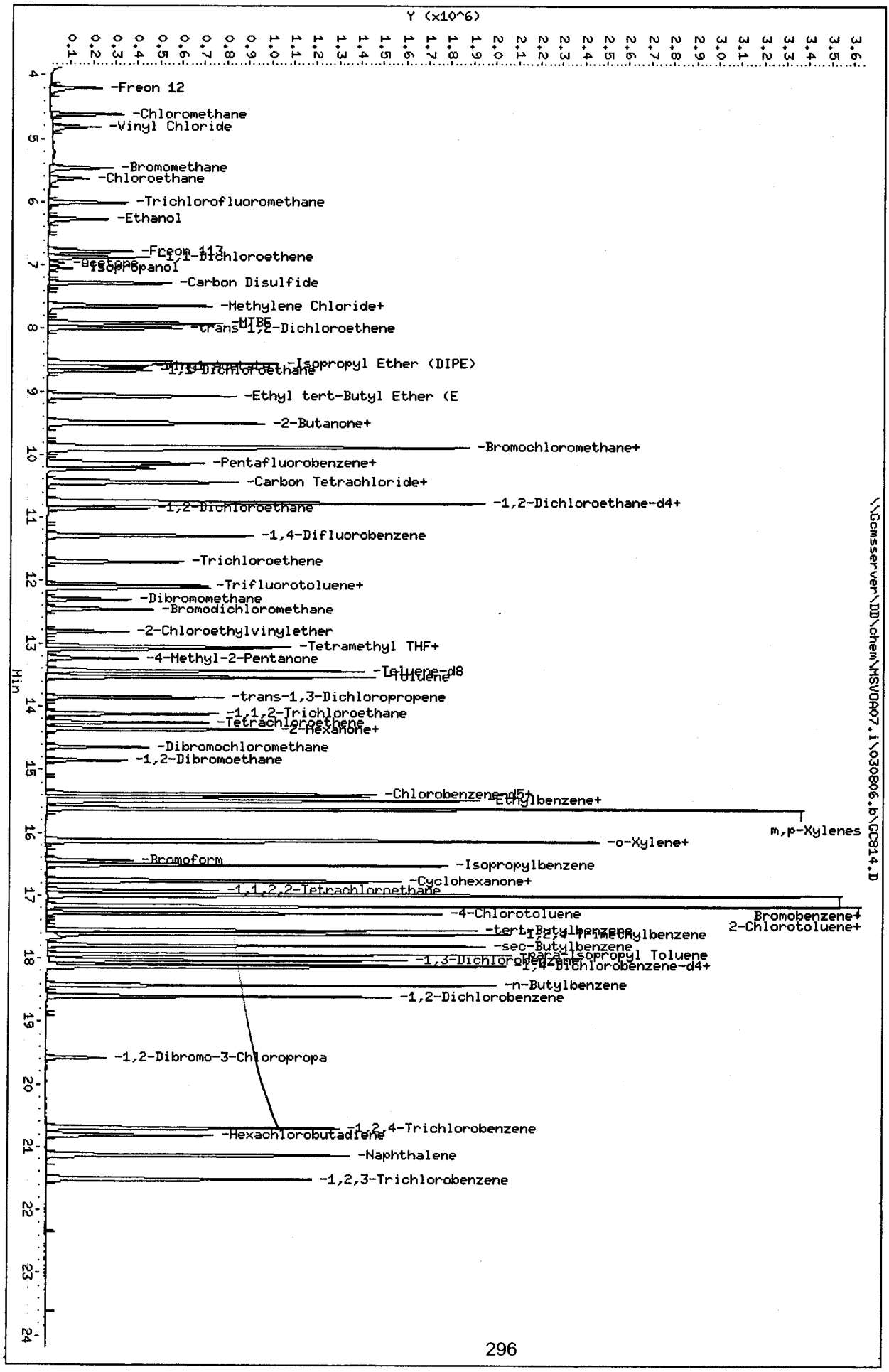
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.028	18.023	(0.996)	755139	50.0000	49.1304
* 78 1,4-Dichlorobenzene-d4	152	18.101	18.102	(1.000)	555422	50.0000	
79 1,4-Dichlorobenzene	146	18.132	18.132	(1.002)	795540	50.0000	45.9241
80 n-Butylbenzene	91	18.418	18.418	(1.017)	1276856	50.0000	47.8727
81 1,2-Dichlorobenzene	146	18.600	18.595	(1.028)	755914	50.0000	50.7016
82 1,2-Dibromo-3-Chloropropane	75	19.580	19.580	(1.082)	91924	50.0000	49.0864
83 1,2,4-Trichlorobenzene	180	20.693	20.693	(1.143)	560975	50.0000	53.9263
84 Hexachlorobutadiene	225	20.815	20.815	(1.150)	200693	50.0000	48.2325
85 Naphthalene	128	21.131	21.125	(1.167)	1599048	50.0000	50.2607
86 1,2,3-Trichlorobenzene	180	21.514	21.515	(1.189)	571376	50.0000	54.5309

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Ccmsserver\DD\chem\MSVOA07.i\030806.b\CC814.D
Date : 08-MAR-2006 16:38
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.01/100,S2783,0.01/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA07.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC815.D
Report Date: 09-Mar-2006 09:22

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC815.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 08-MAR-2006 17:09 MS Autotune Date: 10-JAN-2006 07:50
Operator : LW Inst ID: MSVOA07.i
Smp Info : ICAL,S2844,0.015/100,S2783,0.015/100,
Misc Info : S2410,0.0075/100,75 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\826GOX7.m
Meth Date : 09-Mar-2006 09:04 target Quant Type: ISTD
Cal Date : 08-MAR-2006 17:09 Cal File: GC815.D
Als bottle: 15 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.201	4.201	(0.415)	719505	75.0000	84.5029
2 Chloromethane	50	4.614	4.614	(0.456)	751958	75.0000	77.8305
3 Vinyl Chloride	62	4.815	4.815	(0.476)	663882	75.0000	81.1567
4 Bromomethane	94	5.466	5.466	(0.540)	378983	75.0000	76.0151
5 Chloroethane	64	5.630	5.630	(0.556)	429669	75.0000	70.9165
6 Trichlorofluoromethane	101	6.007	6.008	(0.593)	841065	75.0000	81.2402
7 Ethanol	45	6.269	6.269	(0.619)	629006	7500.00	7519.4627(A)
8 Freon 113	101	6.774	6.774	(0.669)	409511	75.0000	78.6982
9 1,1-Dichloroethene	96	6.871	6.871	(0.679)	347881	75.0000	79.5094
10 Acetone	43	6.969	6.969	(0.688)	178400	75.0000	68.8728
11 Isopropanol	45	7.048	7.048	(0.696)	269309	750.000	810.8246(A)
12 Carbon Disulfide	76	7.285	7.285	(0.719)	1493379	75.0000	66.9740
13 Methylene Chloride	84	7.638	7.638	(0.754)	492270	75.0000	70.4899
14 tert-Butyl Alcohol (TBA)	59	7.632	7.632	(0.754)	388848	750.000	870.0750(A)
15 MTBE	73	7.912	7.912	(0.781)	1601897	75.0000	75.9648
16 trans-1,2-Dichloroethene	96	7.985	7.985	(0.789)	450388	75.0000	73.1590
17 Isopropyl Ether (DIPE)	45	8.544	8.538	(0.844)	1919163	75.0000	75.6920(A)
18 Vinyl Acetate	43	8.605	8.605	(0.850)	1356900	75.0000	78.7665
19 1,1-Dichloroethane	63	8.660	8.660	(0.855)	923310	75.0000	70.0514
20 Ethyl tert-Butyl Ether (ETBE)	59	9.067	9.068	(0.895)	1527364	75.0000	75.8426(A)
21 2-Butanone	43	9.469	9.469	(0.935)	268338	75.0000	81.0706
22 2,2-Dichloropropane	77	9.487	9.487	(0.937)	622783	75.0000	74.6126

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC815.D
Report Date: 09-Mar-2006 09:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.499	9.500	(0.938)	508102	75.0000	80.3211
	24 Bromochloromethane	128	9.870	9.871	(0.975)	246735	75.0000	73.7070
	25 Tetrahydrofuran	42	9.877	9.877	(0.975)	1936714	750.000	764.1420(A)
	26 Chloroform	83	9.913	9.913	(0.979)	870072	75.0000	70.8935
*	27 Pentafluorobenzene	168	10.126	10.126	(1.000)	585541	50.0000	
$	28 Dibromofluoromethane	113	10.162	10.163	(1.004)	300506	50.0000	47.5775
	29 1,1,1-Trichloroethane	97	10.217	10.211	(1.009)	698950	75.0000	71.1104
	30 Carbon Tetrachloride	117	10.424	10.424	(0.924)	584215	75.0000	75.6334
	31 1,1-Dichloropropene	75	10.442	10.443	(0.926)	625245	75.0000	84.5252
$	32 1,2-Dichloroethane-d4	65	10.734	10.735	(0.951)	434032	50.0000	48.4589
	33 Benzene	78	10.759	10.765	(0.954)	1999260	75.0000	71.4213
	34 Methyl tert-Amyl Ether (TAME)	73	10.777	10.771	(0.955)	1509538	75.0000	75.5942(A)
	35 1,2-Dichloroethane	62	10.850	10.850	(0.962)	774534	75.0000	72.2894
*	36 1,4-Difluorobenzene	114	11.282	11.282	(1.000)	991163	50.0000	
	37 Trichloroethene	95	11.696	11.696	(1.037)	452115	75.0000	77.4077
$	38 Trifluorotoluene	146	12.067	12.067	(1.070)	653168	75.0000	82.0028(A)
	39 1,2-Dichloropropane	63	12.109	12.109	(1.073)	560897	75.0000	82.1108
	40 Dibromomethane	93	12.298	12.298	(1.090)	319242	75.0000	79.2835
	41 Bromodichloromethane	83	12.456	12.456	(1.104)	637912	75.0000	77.7054
	42 2-Chloroethylvinylether	63	12.815	12.815	(1.136)	316382	75.0000	76.8075
	43 Tetramethyl THF	43	13.052	13.052	(1.157)	1154486	75.0000	75.9680(A)
	44 cis-1,3-Dichloropropene	75	13.089	13.089	(1.160)	873754	75.0000	75.2045
	45 4-Methyl-2-Pentanone	43	13.229	13.229	(1.173)	610622	75.0000	76.2986
$	46 Toluene-d8	98	13.429	13.430	(1.190)	1181552	50.0000	51.1259
	47 Toluene	92	13.527	13.527	(1.199)	1247922	75.0000	77.5178
	48 trans-1,3-Dichloropropene	75	13.849	13.849	(1.228)	806273	75.0000	87.8074
	49 1,1,2-Trichloroethane	85	14.117	14.117	(1.251)	253094	75.0000	76.2064
	50 Tetrachloroethene	166	14.251	14.251	(0.926)	431423	75.0000	79.1022
	51 2-Hexanone	43	14.348	14.348	(0.933)	410632	75.0000	77.1391
	52 1,3-Dichloropropane	76	14.366	14.366	(0.934)	905605	75.0000	81.6699
	53 Dibromochloromethane	129	14.640	14.640	(0.952)	465434	75.0000	83.6376
	54 1,2-Dibromoethane	107	14.853	14.853	(1.317)	469250	75.0000	82.8380
*	55 Chlorobenzene-d5	117	15.382	15.382	(1.000)	952374	50.0000	
	56 Chlorobenzene	112	15.419	15.419	(1.002)	1415641	75.0000	73.4139
	57 Ethylbenzene	91	15.473	15.474	(1.006)	2424840	75.0000	83.9993
	58 1,1,1,2-Tetrachloroethane	131	15.498	15.498	(1.008)	496435	75.0000	76.9153
	59 m,p-Xylenes	106	15.613	15.614	(1.015)	1942603	150.000	153.8785
	60 o-Xylene	106	16.118	16.118	(1.048)	935580	75.0000	76.6811
	61 Styrene	104	16.137	16.137	(1.049)	1654889	75.0000	76.6919
	62 Bromoform	173	16.435	16.435	(1.068)	329352	75.0000	84.3151
	63 Isopropylbenzene	105	16.520	16.514	(0.913)	2320957	75.0000	77.8609
	64 Cyclohexanone	55	16.751	16.751	(0.925)	861321	750.000	745.1204(A)
$	65 Bromofluorobenzene	95	16.775	16.776	(0.927)	571588	50.0000	50.8978
	66 1,1,2,2-Tetrachloroethane	83	16.909	16.909	(0.934)	724127	75.0000	73.2991
	67 Bromobenzene	156	16.982	16.982	(0.938)	636554	75.0000	76.0464
	68 Propylbenzene	91	16.988	16.988	(0.938)	3123727	75.0000	87.9857
	69 1,2,3-Trichloropropane	75	17.006	17.007	(0.940)	744235	75.0000	74.5467
	70 2-Chlorotoluene	91	17.165	17.165	(0.948)	2142491	75.0000	83.5480
	71 1,3,5-Trimethylbenzene	105	17.171	17.171	(0.949)	2210290	75.0000	77.4748
	72 4-Chlorotoluene	91	17.286	17.280	(0.955)	1964206	75.0000	84.4779
	73 tert-Butylbenzene	119	17.548	17.548	(0.969)	1825329	75.0000	78.5604
	74 1,2,4-Trimethylbenzene	105	17.615	17.609	(0.973)	2304042	75.0000	76.9144
	75 sec-Butylbenzene	105	17.797	17.798	(0.983)	2802736	75.0000	79.0533
	76 para-Isopropyl Toluene	119	17.937	17.937	(0.991)	2430487	75.0000	78.6776

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC815.D
Report Date: 09-Mar-2006 09:22

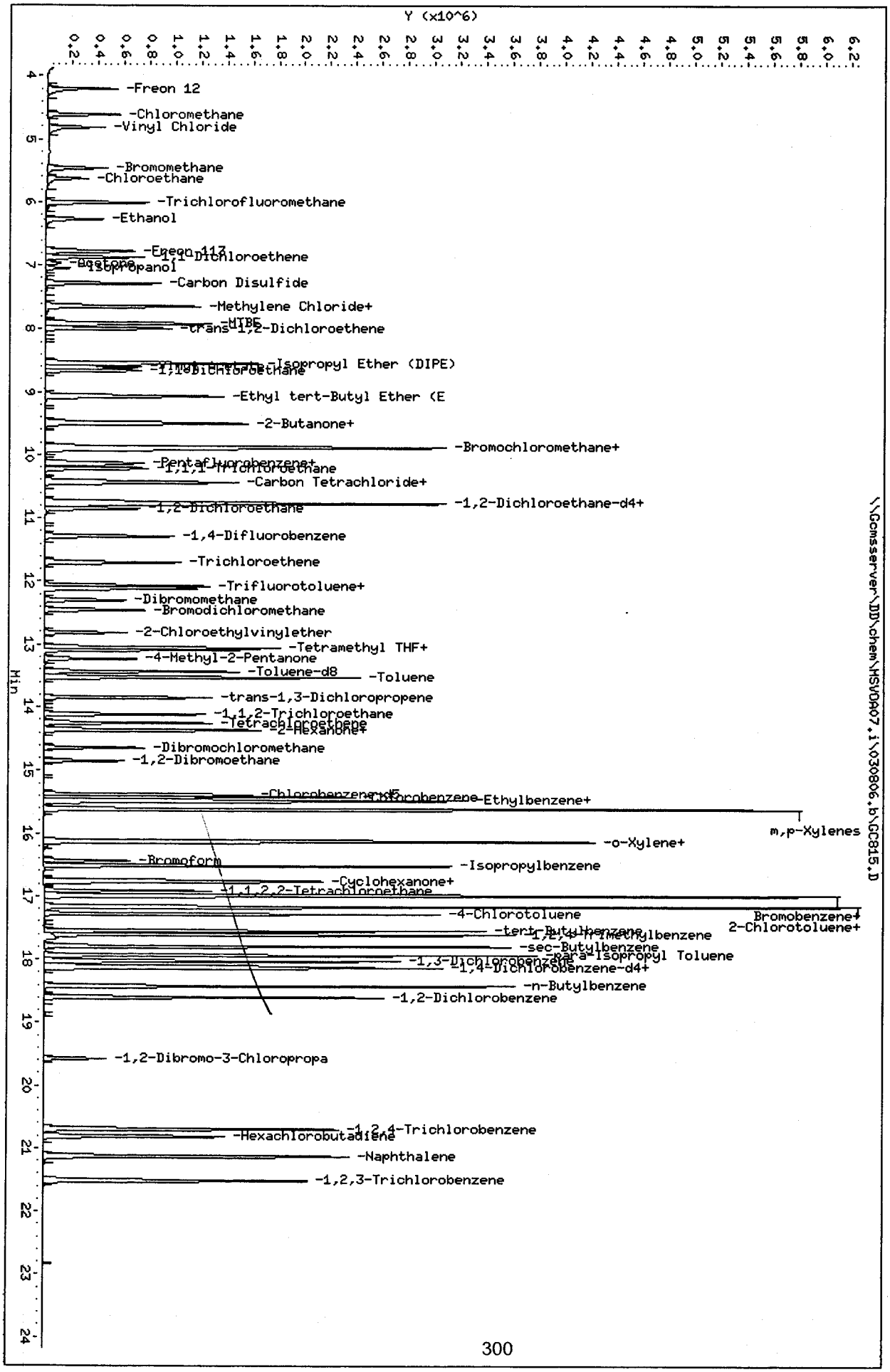
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.029	18.023	(0.996)	1296067	75.0000	78.1567
* 78 1,4-Dichlorobenzene-d4	152	18.102	18.102	(1.000)	599250	50.0000	
79 1,4-Dichlorobenzene	146	18.132	18.132	(1.002)	1348062	75.0000	72.1279
80 n-Butylbenzene	91	18.418	18.418	(1.017)	2368848	75.0000	79.3189
81 1,2-Dichlorobenzene	146	18.600	18.595	(1.028)	1260650	75.0000	78.3717
82 1,2-Dibromo-3-Chloropropane	75	19.574	19.580	(1.081)	160919	75.0000	76.9102
83 1,2,4-Trichlorobenzene	180	20.693	20.693	(1.143)	980852	75.0000	87.3928
84 Hexachlorobutadiene	225	20.815	20.815	(1.150)	369400	75.0000	82.2849
85 Naphthalene	128	21.125	21.125	(1.167)	2796703	75.0000	74.9014
86 1,2,3-Trichlorobenzene	180	21.514	21.515	(1.189)	977753	75.0000	86.4898

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Ccmsserver\DD\chem\MSVOA07.i\030806.b\GC815.D
Date : 08-MAR-2006 17:09
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.015/100,S2783,0.015/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA07.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC816.D
Report Date: 09-Mar-2006 09:22

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC816.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 08-MAR-2006 17:40 MS Autotune Date: 10-JAN-2006 07:50
Operator : LW Inst ID: MSVOA07.i
Smp Info : ICAL,S2844,0.02/100,S2783,0.02/100,
Misc Info : S2410,0.01/100,100 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\826GOX7.m
Meth Date : 09-Mar-2006 09:04 target Quant Type: ISTD
Cal Date : 08-MAR-2006 17:40 Cal File: GC816.D
Als bottle: 16 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.201	4.201	(0.415)	949913	100.000	101.9310
2 Chloromethane	50	4.614	4.614	(0.456)	1036995	100.000	98.7844
3 Vinyl Chloride	62	4.815	4.815	(0.476)	872619	100.000	97.4684
4 Bromomethane	94	5.466	5.466	(0.540)	540823	100.000	99.6687
5 Chloroethane	64	5.630	5.630	(0.556)	614766	100.000	92.7060
6 Trichlorofluoromethane	101	6.008	6.008	(0.593)	1128788	100.000	99.6181
7 Ethanol	45	6.269	6.269	(0.619)	934641	10000.0	10208.4899(A)
8 Freon 113	101	6.774	6.774	(0.669)	561909	100.000	98.6620
9 1,1-Dichloroethene	96	6.871	6.871	(0.679)	512222	100.000	106.9623
10 Acetone	43	6.969	6.969	(0.688)	282226	100.000	99.5484
11 Isopropanol	45	7.048	7.048	(0.696)	416456	1000.00	1145.5916(A)
12 Carbon Disulfide	76	7.285	7.285	(0.719)	2157675	100.000	88.4111
13 Methylene Chloride	84	7.638	7.638	(0.754)	709490	100.000	92.8228
14 tert-Butyl Alcohol (TBA)	59	7.632	7.632	(0.754)	620867	1000.00	1269.2877(A)
15 MTBE	73	7.912	7.912	(0.781)	2351342	100.000	99.4994
16 trans-1,2-Dichloroethene	96	7.985	7.985	(0.789)	661468	100.000	98.1691
17 Isopropyl Ether (DIPE)	45	8.538	8.538	(0.843)	2799704	100.000	99.5678(A)
18 Vinyl Acetate	43	8.605	8.605	(0.850)	1814736	100.000	96.1692
19 1,1-Dichloroethane	63	8.660	8.660	(0.855)	1324408	100.000	91.8071
20 Ethyl tert-Butyl Ether (ETBE)	59	9.068	9.068	(0.895)	2243804	100.000	99.5210(A)
21 2-Butanone	43	9.469	9.469	(0.935)	405202	100.000	111.8504
22 2,2-Dichloropropane	77	9.487	9.487	(0.937)	881474	100.000	96.4873

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC816.D
Report Date: 09-Mar-2006 09:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.500	9.500	(0.938)	740186	100.000	106.9066
	24 Bromochloromethane	128	9.871	9.871	(0.975)	359792	100.000	98.2006
	25 Tetrahydrofuran	42	9.877	9.877	(0.975)	2758841	1000.00	992.8466(A)
	26 Chloroform	83	9.913	9.913	(0.979)	1250187	100.000	93.0703
*	27 Pentafluorobenzene	168	10.126	10.126	(1.000)	640874	50.0000	
$	28 Dibromofluoromethane	113	10.163	10.163	(1.004)	323654	50.0000	46.8181
	29 1,1,1-Trichloroethane	97	10.211	10.211	(1.008)	993669	100.000	92.3662
	30 Carbon Tetrachloride	117	10.424	10.424	(0.924)	825590	100.000	98.0049
	31 1,1-Dichloropropene	75	10.443	10.443	(0.926)	894047	100.000	110.8253
$	32 1,2-Dichloroethane-d4	65	10.735	10.735	(0.951)	471774	50.0000	48.2979
	33 Benzene	78	10.765	10.765	(0.954)	2877934	100.000	94.2718
	34 Methyl tert-Amyl Ether (TAME)	73	10.771	10.771	(0.955)	2226139	100.000	99.6618(A)
	35 1,2-Dichloroethane	62	10.850	10.850	(0.962)	1104933	100.000	94.5611
*	36 1,4-Difluorobenzene	114	11.282	11.282	(1.000)	1080943	50.0000	
	37 Trichloroethene	95	11.696	11.696	(1.037)	659546	100.000	103.5435
$	38 Trifluorotoluene	146	12.067	12.067	(1.070)	924134	100.000	106.3852(A)
	39 1,2-Dichloropropane	63	12.109	12.109	(1.073)	822021	100.000	110.3423
	40 Dibromomethane	93	12.298	12.298	(1.090)	460396	100.000	104.8423
	41 Bromodichloromethane	83	12.456	12.456	(1.104)	932581	100.000	104.1644
	42 2-Chloroethylvinylether	63	12.815	12.815	(1.136)	484910	100.000	99.1390
	43 Tetramethyl THF	43	13.052	13.052	(1.157)	1684606	100.000	99.4496(A)
	44 cis-1,3-Dichloropropene	75	13.089	13.089	(1.160)	1274227	100.000	99.8511
	45 4-Methyl-2-Pentanone	43	13.229	13.229	(1.173)	897077	100.000	99.4058
$	46 Toluene-d8	98	13.430	13.430	(1.190)	1267793	50.0000	50.3012
	47 Toluene	92	13.527	13.527	(1.199)	1796788	100.000	102.3418
	48 trans-1,3-Dichloropropene	75	13.849	13.849	(1.228)	1181814	100.000	118.0159
	49 1,1,2-Trichloroethane	85	14.117	14.117	(1.251)	367171	100.000	101.3725
	50 Tetrachloroethene	166	14.251	14.251	(0.926)	609687	100.000	101.7667
	51 2-Hexanone	43	14.348	14.348	(0.933)	616068	100.000	99.0734
	52 1,3-Dichloropropane	76	14.366	14.366	(0.934)	1312147	100.000	107.7257
	53 Dibromochloromethane	129	14.640	14.640	(0.952)	680460	100.000	111.3166
	54 1,2-Dibromoethane	107	14.853	14.853	(1.317)	692402	100.000	112.0795
*	55 Chlorobenzene-d5	117	15.382	15.382	(1.000)	1046150	50.0000	
	56 Chlorobenzene	112	15.419	15.419	(1.002)	2041149	100.000	96.3637
	57 Ethylbenzene	91	15.474	15.474	(1.006)	3452390	100.000	108.8745
	58 1,1,1,2-Tetrachloroethane	131	15.498	15.498	(1.008)	713850	100.000	100.6865
	59 m,p-Xylenes	106	15.614	15.614	(1.015)	2778744	200.000	198.2676
	60 o-Xylene	106	16.118	16.118	(1.048)	1366466	100.000	99.2309
	61 Styrene	104	16.137	16.137	(1.049)	2401213	100.000	99.1906
	62 Bromoform	173	16.435	16.435	(1.068)	490702	100.000	114.3606
	63 Isopropylbenzene	105	16.514	16.514	(0.912)	3272274	100.000	98.6210
	64 Cyclohexanone	55	16.751	16.751	(0.925)	1766993	1000.00	724.0142(A)
$	65 Bromofluorobenzene	95	16.776	16.776	(0.927)	621282	50.0000	50.8804
	66 1,1,2,2-Tetrachloroethane	83	16.909	16.909	(0.934)	1023869	100.000	95.3180
	67 Bromobenzene	156	16.982	16.982	(0.938)	914644	100.000	100.4944
	68 Propylbenzene	91	16.988	16.988	(0.939)	4326993	100.000	112.0912
	69 1,2,3-Trichloropropane	75	17.007	17.007	(0.940)	1072379	100.000	98.7899
	70 2-Chlorotoluene	91	17.165	17.165	(0.948)	3008034	100.000	107.8813
	71 1,3,5-Trimethylbenzene	105	17.171	17.171	(0.949)	3119721	100.000	98.8845
	72 4-Chlorotoluene	91	17.280	17.280	(0.955)	2794564	100.000	110.5393
	73 tert-Butylbenzene	119	17.548	17.548	(0.969)	2538315	100.000	98.2397
	74 1,2,4-Trimethylbenzene	105	17.609	17.609	(0.973)	3285455	100.000	99.1785
	75 sec-Butylbenzene	105	17.798	17.798	(0.983)	3844998	100.000	97.9329
	76 para-Isopropyl Toluene	119	17.937	17.937	(0.991)	3376616	100.000	98.1788

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC816.D
Report Date: 09-Mar-2006 09:22

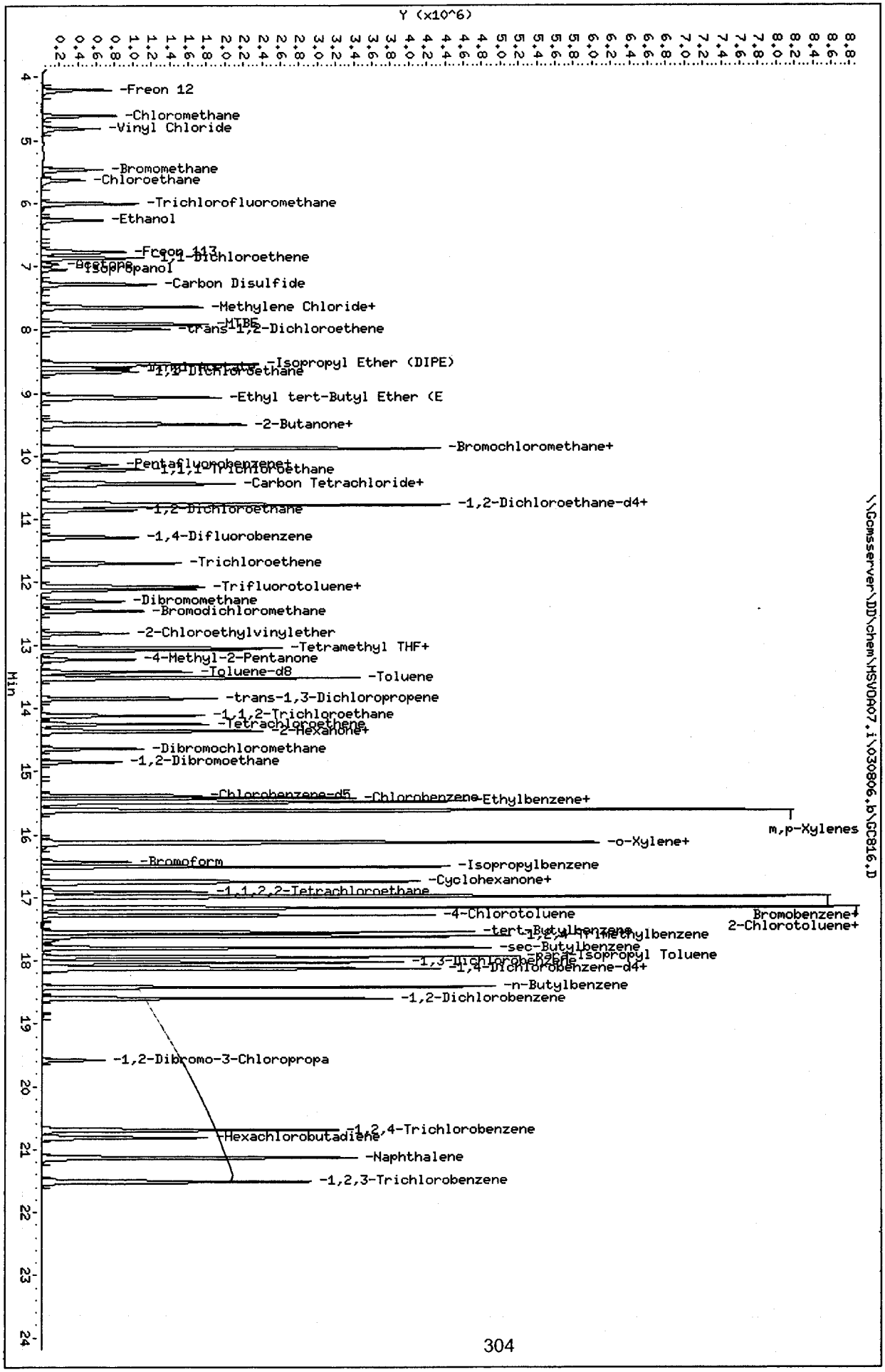
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.023	18.023	(0.996)	1827165	100.000	101.3358
* 78 1,4-Dichlorobenzene-d4	152	18.102	18.102	(1.000)	651571	50.0000	
79 1,4-Dichlorobenzene	146	18.132	18.132	(1.002)	1917313	100.000	94.3481
80 n-Butylbenzene	91	18.418	18.418	(1.017)	3242762	100.000	97.7657
81 1,2-Dichlorobenzene	146	18.595	18.595	(1.027)	1812575	100.000	103.6352
82 1,2-Dibromo-3-Chloropropane	75	19.580	19.580	(1.082)	232342	100.000	99.1431
83 1,2,4-Trichlorobenzene	180	20.693	20.693	(1.143)	1412129	100.000	115.7158
84 Hexachlorobutadiene	225	20.815	20.815	(1.150)	492585	100.000	100.9138
85 Naphthalene	128	21.125	21.125	(1.167)	4048283	100.000	92.4584
86 1,2,3-Trichlorobenzene	180	21.515	21.515	(1.189)	1387077	100.000	112.8451

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Comsserver\DD\chem\MSVOA07.i\030806.b\GC816.D
Date : 08-MAR-2006 17:40
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.02/100,S2783,0.02/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA07.i
Operator: LW
Column diameter: 0.25



CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA07 IDF : 1.0
Seqnum : 466096970017 File : gc817 Time : 08-MAR-2006 18:11
Cal : 466096970001 Caldate: 08-MAR-2006 Caltype: WATER
Standards: S2807 (10000X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	0.7271	0.5753	25.00	19.78	ug/L	**-21**	30	!v-
Chloromethane	1.0160	0.7826	25.00	22.89	ug/L	-8	30	
Vinyl Chloride	0.7952	0.6029	25.00	21.56	ug/L	-14	20	
Bromomethane	0.5326	0.3865	25.00	22.00	ug/L	-12	30	
Chloroethane	0.5174	0.4398	25.00	21.25	ug/L	-15	30	m
Trichlorofluoromethane	0.8840	0.6868	25.00	19.42	ug/L	**-22**	30	!v-

ISTD (ICAL gc814)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	542122	610997	12.70	10.13	10.13	0.00
1,4-Difluorobenzene	912316	1087863	19.24	11.28	11.28	0.00
1,4-Dichlorobenzene-d4	555422	532946	-4.05	18.10	18.10	0.00

LW 3-9-06

!=warning -=low bias m=manual integration v=ICV

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA07 IDF : 1.0
Seqnum : 466096970018 File : gc818 Time : 08-MAR-2006 18:42
Cal : 466096970001 Caldate: 08-MAR-2006 Caltype: WATER
Standards: S2829 (10000X), S2616 (10000X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Acetone	0.2212	0.1941	25.00	21.94	ug/L	-12	40	
Freon 113	0.4443	0.3912	25.00	22.01	ug/L	-12	30	
1,1-Dichloroethene	0.3736	0.3937	25.00	26.35	ug/L	5	20	
Methylene Chloride	0.5963	0.5912	25.00	24.79	ug/L	-1	30	
Carbon Disulfide	1.9040	1.3873	25.00	18.22	ug/L	-27	30	!v-
MTBE	1.4828	1.5014	25.00	22.34	ug/L	-11	30	
trans-1,2-Dichloroethene	0.5257	0.5235	25.00	24.90	ug/L	0	30	
Vinyl Acetate	1.2546	1.0643	25.00	18.36	ug/L	-27	40	
1,1-Dichloroethane	1.1255	1.0591	25.00	23.52	ug/L	-6	30	
2-Butanone	0.2826	0.2741	25.00	24.24	ug/L	-3	40	
2,2-Dichloropropane	0.7127	0.6407	25.00	22.47	ug/L	-10	30	
cis-1,2-Dichloroethene	0.5402	0.5765	25.00	26.68	ug/L	7	30	
Chloroform	1.0480	0.9976	25.00	23.80	ug/L	-5	20	
Bromochloromethane	0.2858	0.2897	25.00	25.33	ug/L	1	30	
1,1,1-Trichloroethane	0.8393	0.7778	25.00	23.17	ug/L	-7	30	
1,1-Dichloropropene	0.3732	0.3973	25.00	26.61	ug/L	6	30	
Carbon Tetrachloride	0.3897	0.3756	25.00	24.10	ug/L	-4	30	
1,2-Dichloroethane	0.5405	0.5310	25.00	24.56	ug/L	-2	30	
Benzene	1.4121	1.3740	25.00	24.33	ug/L	-3	30	
Trichloroethene	0.2946	0.3094	25.00	26.25	ug/L	5	30	
1,2-Dichloropropane	0.3446	0.3566	25.00	25.87	ug/L	3	20	
Bromodichloromethane	0.4141	0.4470	25.00	26.98	ug/L	8	30	
Dibromomethane	0.2031	0.2117	25.00	26.06	ug/L	4	30	
2-Chloroethylvinylether	0.1412	0.1747	25.00	25.14	ug/L	1	40	
4-Methyl-2-Pentanone	0.3360	0.3494	25.00	24.07	ug/L	-4	40	
Tetramethyl THF	0.5813	0.6867	25.00	24.01	ug/L	-4	30	
cis-1,3-Dichloropropene	0.4911	0.5734	25.00	25.11	ug/L	0	30	
Toluene	0.8121	0.8080	25.00	24.87	ug/L	-1	20	
trans-1,3-Dichloropropene	0.4632	0.4692	25.00	25.32	ug/L	1	30	
1,1,2-Trichloroethane	0.1675	0.1732	25.00	25.85	ug/L	3	30	
2-Hexanone	0.2238	0.2383	25.00	24.99	ug/L	0	40	
1,3-Dichloropropane	0.5822	0.6490	25.00	27.87	ug/L	11	30	
Tetrachloroethene	0.2863	0.3026	25.00	26.42	ug/L	6	30	
Dibromochloromethane	0.2922	0.3205	25.00	27.43	ug/L	10	30	
1,2-Dibromoethane	0.2858	0.3050	25.00	26.68	ug/L	7	30	
Chlorobenzene	1.0124	1.0000	25.00	24.69	ug/L	-1	30	
1,1,1,2-Tetrachloroethane	0.3389	0.3457	25.00	25.51	ug/L	2	30	
Ethylbenzene	1.5155	1.6292	25.00	26.88	ug/L	8	20	
m,p-Xylenes	0.5688	0.6584	50.00	51.34	ug/L	3	30	
o-Xylene	0.5099	0.6233	25.00	26.09	ug/L	4	30	
Styrene	0.8523	1.0390	25.00	24.50	ug/L	-2	30	
Bromoform	0.2051	0.2075	25.00	25.30	ug/L	1	30	
Isopropylbenzene	1.9702	2.3556	25.00	25.42	ug/L	2	30	
1,1,2,2-Tetrachloroethane	0.8243	0.7918	25.00	24.01	ug/L	-4	30	
1,2,3-Trichloropropane	0.8330	0.8648	25.00	25.95	ug/L	4	30	
Propylbenzene	2.9623	3.4932	25.00	29.48	ug/L	18	30	
Bromobenzene	0.6984	0.7320	25.00	26.20	ug/L	5	30	
1,3,5-Trimethylbenzene	2.0134	2.4255	25.00	26.69	ug/L	7	30	
2-Chlorotoluene	2.1397	2.4276	25.00	28.36	ug/L	13	30	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
4-Chlorotoluene	1.9400	2.1887	25.00	28.20	ug/L	13	30	
tert-Butylbenzene	1.5827	1.9961	25.00	27.51	ug/L	10	30	
1,2,4-Trimethylbenzene	2.0305	2.5236	25.00	26.42	ug/L	6	30	
sec-Butylbenzene	2.4182	3.0803	25.00	27.61	ug/L	10	30	
para-Isopropyl Toluene	2.0237	2.4957	25.00	26.05	ug/L	4	30	
1,3-Dichlorobenzene	1.3836	1.4454	25.00	26.12	ug/L	4	30	
1,4-Dichlorobenzene	1.5594	1.5380	25.00	24.66	ug/L	-1	30	
n-Butylbenzene	2.0647	2.5157	25.00	27.04	ug/L	8	30	
1,2-Dichlorobenzene	1.3421	1.4158	25.00	26.37	ug/L	5	30	
1,2-Dibromo-3-Chloropropane	0.1573	0.1671	25.00	25.56	ug/L	2	30	
1,2,4-Trichlorobenzene	0.9365	1.0431	25.00	27.85	ug/L	11	30	
Hexachlorobutadiene	0.3746	0.4368	25.00	29.15	ug/L	17	30	
Naphthalene	2.0582	2.8230	25.00	26.56	ug/L	6	30	
1,2,3-Trichlorobenzene	0.9432	1.0547	25.00	27.95	ug/L	12	30	
tert-Butyl Alcohol (TBA)	0.0382	0.0388	125.0	127.2	ug/L	2	30	
Isopropyl Ether (DIPE)	1.7865	1.8755	25.00	22.76	ug/L	-9	30	
Ethyl tert-Butyl Ether (ETBE)	1.3859	1.6324	25.00	25.28	ug/L	1	30	
Methyl tert-Amyl Ether (TAME)	0.8460	0.9230	25.00	24.40	ug/L	-2	30	
Cyclohexanone	0.0674	0.0253	250.0	108.0	ug/L	-57	30	v- ***
Ethanol	0.0071	0.0069	2500	2428	ug/L	-3	30	
Isopropanol	0.0284	0.0283	250.0	249.6	ug/L	0	30	
Tetrahydrofuran	0.1870	0.2150	250.0	252.1	ug/L	1	30	

ISTD (ICAL gc814)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	542122	626319	15.53	10.13	10.13	0.00
1,4-Difluorobenzene	912316	1052462	15.36	11.28	11.28	0.00
Chlorobenzene-d5	888382	990438	11.49	15.38	15.38	0.00
1,4-Dichlorobenzene-d4	555422	577543	3.98	18.10	18.10	0.00

LW 3-9-06

!=warning -=low bias v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 8260B

Inst : MSVOA08 Name : 826GOX8
Calnum : 476046588001 Date : 01-FEB-2006 15:57 Type : WATER Inj Vol: 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	hb110	476046588010	1.0/0.5 PPB	01-FEB-2006 15:57	S2349 (1000000X), S2552 (500000X), S2028 (1000000X), S2284 (5000X)
L2	hb111	476046588011	2 PPB	01-FEB-2006 16:34	S2349 (250000X), S2552 (250000X), S2028 (500000X), S2284 (5000X)
L3	hb112	476046588012	5 PPB	01-FEB-2006 17:10	S2349 (100000X), S2552 (100000X), S2028 (200000X), S2284 (5000X)
L4	hb113	476046588013	10 PPB	01-FEB-2006 17:47	S2349 (50000X), S2552 (50000X), S2028 (100000X), S2284 (5000X)
L5	hb114	476046588014	20 PPB	01-FEB-2006 18:24	S2349 (25000X), S2552 (25000X), S2028 (50000X), S2284 (5000X)
L6	hb115	476046588015	50 PPB	01-FEB-2006 19:01	S2349 (10000X), S2552 (10000X), S2028 (20000X), S2284 (5000X)
L7	hb116	476046588016	75 PPB	01-FEB-2006 19:39	S2349 (6667X), S2552 (6667X), S2028 (13330X), S2284 (5000X)
L8	hb117	476046588017	100 PPB	01-FEB-2006 20:16	S2349 (5000X), S2552 (5000X), S2028 (10000X), S2284 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Freon 12	0.4151m	0.4864m	0.5409m	0.6541	0.6818	0.6644	0.6143		LINR	R	-0.14708	1.583834		ug/L	0.5796	0.997	0.050	0.99	15	
Chloromethane	1.1138m	0.9813m	0.9454m	0.9524	0.9198	0.8396	0.7439	0.7086	AVRG	R		1.110360		ug/L	0.9006	15	0.10	0.99	15	
Vinyl Chloride	0.6240m	0.6235m	0.6467m	0.7372	0.7211	0.7003	0.6363	0.6098	AVRG	R		1.509729		ug/L	0.6624	7	0.050	0.99	15	
Bromomethane	0.2005m	0.1667m	0.2456m	0.2780m	0.2834m	0.3154	0.3227		QUAD	R	0.825044	3.330394	-0.01132	ug/L	0.2589	1.000	0.050	0.99	15	
Chloroethane	0.4178m	0.4212m	0.3688m	0.4309m	0.4142m	0.3899	0.3490	0.3338	AVRG	R		2.559573		ug/L	0.3907	9	0.050	0.99	15	
Trichlorofluoromethane	0.3799	0.4065	0.4641	0.5536	0.5569	0.5281	0.4977	0.4728	AVRG	R		2.072747		ug/L	0.4825	13	0.050	0.99	15	308
Acetone			0.3077	0.3039	0.3072	0.3220	0.2828	0.2890	AVRG	R		3.309947		ug/L	0.3021	5	0.050	0.99	15	
Freon 113	0.1178m	0.1580	0.2916	0.4237	0.4352	0.4515	0.4332		LINR	R	0.777856	2.248929		ug/L	0.3302	0.999	0.050	0.99	15	
1,1-Dichloroethene	0.2897m	0.2779	0.3330	0.4181	0.4044	0.4116	0.3879	0.3575	AVRG	R		2.777622		ug/L	0.3600	15	0.050	0.99	15	
Methylene Chloride		0.7334m	0.6342	0.5835	0.5733	0.5423	0.5051	0.5046	AVRG	R		1.717212		ug/L	0.5823	14	0.050	0.99	15	
Carbon Disulfide	1.5006	1.5184	1.7653	2.0342	2.0276	1.9857	1.8412	1.7034	AVRG	R		0.556466		ug/L	1.7971	12	0.050	0.99	15	
MTBE	1.4171	1.4923	1.5365	1.5516	1.5167	1.4561	1.3333	1.3183	AVRG	R		0.688354		ug/L	1.4527	6	0.050	0.99	15	
trans-1,2-Dichloroethene	0.4628	0.4006	0.4450	0.4870	0.4752	0.4722	0.4570	0.4347	AVRG	R		2.201178		ug/L	0.4543	6	0.050	0.99	15	
Vinyl Acetate	1.5328	1.6819	1.7830	1.9063	1.8890	1.6148	1.4593	1.2739	AVRG	R		0.608787		ug/L	1.6426	13	0.050	0.99	15	
1,1-Dichloroethane	0.9496	0.9983	1.0666	1.0794	1.0409	1.0274	0.9539	0.8888	AVRG	R		0.999388		ug/L	1.0006	7	0.10	0.99	15	
2-Butanone		0.4880	0.4913	0.4731	0.4622	0.4595	0.4176	0.4111	AVRG	R		2.185554		ug/L	0.4575	7	0.050	0.99	15	
2,2-Dichloropropane	0.5122	0.5059	0.6010	0.6861	0.6552	0.6356	0.5833	0.5041	AVRG	R		1.708150		ug/L	0.5854	12	0.050	0.99	15	
cis-1,2-Dichloroethene	0.5183	0.4752	0.4877	0.5292	0.5163	0.5092	0.4866	0.4712	AVRG	R		2.003118		ug/L	0.4992	4	0.050	0.99	15	
Chloroform	0.8148	0.8255	0.8782	0.8968	0.8833	0.8371	0.7744	0.7315	AVRG	R		1.204527		ug/L	0.8302	7	0.050	0.99	15	
Bromochloromethane	0.2142	0.2156	0.2399	0.2331	0.2382	0.2343	0.2214	0.2196	AVRG	R		4.404502		ug/L	0.2270	5	0.050	0.99	15	
1,1,1-Trichloroethane	0.4001	0.4519	0.5032	0.6053	0.5896	0.5773	0.5547	0.4988	AVRG	R		1.913520		ug/L	0.5226	14	0.050	0.99	15	
1,1-Dichloropropene	0.2447	0.2083	0.2547	0.3290	0.3162	0.3280	0.3070		LINR	R	0.125587	3.178137		ug/L	0.2840	0.998	0.050	0.99	15	
Carbon Tetrachloride	0.1425	0.1255	0.1684	0.2209	0.2111	0.2212	0.2119		LINR	R	0.382218	4.625812		ug/L	0.1859	0.999	0.050	0.99	15	
1,2-Dichloroethane	0.3290	0.3566	0.3730	0.3832	0.3600	0.3471	0.3184	0.3089	AVRG	R		2.881620		ug/L	0.3470	8	0.050	0.99	15	
Benzene	0.8564	0.8089	0.8496	0.9091	0.8606	0.8489	0.8112	0.7458	AVRG	R		1.195760		ug/L	0.8363	6	0.050	0.99	15	
Trichloroethene	0.1627	0.1732	0.1965	0.2227	0.2156	0.2238	0.2183	0.2074	AVRG	R		4.937778		ug/L	0.2025	11	0.050	0.99	15	

476046588001

ICAL-OK ICV- Freon12↓, Cyclohexanone↓ CUSACE Chloromethane↓)

LW 2-2-06

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
1,2-Dichloropropane	0.2831	0.2886	0.2996	0.3029	0.2842	0.2919	0.2729	0.2684	AVRG	R		3.490764		ug/L	0.2865	4	0.050	0.99	15	
Bromodichloromethane	0.2953	0.3052	0.3071	0.3218	0.3140	0.3067	0.2885	0.2923	AVRG	R		3.290899		ug/L	0.3039	4	0.050	0.99	15	
Dibromomethane	0.1424	0.1637	0.1655	0.1683	0.1628	0.1612	0.1518	0.1548	AVRG	R		6.296610		ug/L	0.1588	5	0.050	0.99	15	
2-Chloroethylvinylether	0.0286	0.0397	0.0587	0.0674	0.0874	0.0965	0.0966	0.1118	QUAD	R	1.104955	11.74411	-0.25468	ug/L	0.0733	0.999	0.050	0.99	15	
4-Methyl-2-Pentanone		0.3873	0.4538	0.4258	0.4349	0.4090	0.3915	0.3949	AVRG	R		2.416124		ug/L	0.4139	6	0.050	0.99	15	
Tetramethyl THF	0.7111	0.7195	0.7534	0.7676	0.7541	0.6961	0.6362	0.6192	AVRG	R		1.414150		ug/L	0.7071	8	0.050	0.99	15	
cis-1,3-Dichloropropene	0.3819	0.3876	0.4034	0.4195	0.4083	0.3952	0.3796	0.3739	AVRG	R		2.540201		ug/L	0.3937	4	0.050	0.99	15	
Toluene	0.4245	0.4067	0.4255	0.4699	0.4793	0.4874	0.4630	0.4407	AVRG	R		2.224154		ug/L	0.4496	7	0.050	0.99	15	
trans-1,3-Dichloropropene	0.3598	0.3456	0.3725	0.3922	0.3717	0.3707	0.3424	0.3411	AVRG	R		2.762469		ug/L	0.3620	5	0.050	0.99	15	
1,1,2-Trichloroethane	0.1290	0.1162	0.1201	0.1208	0.1211	0.1220	0.1153	0.1152	AVRG	R		8.335518		ug/L	0.1200	4	0.050	0.99	15	
2-Hexanone		0.3203	0.3488	0.3271	0.3545	0.3556	0.3197	0.3266	AVRG	R		2.975441		ug/L	0.3361	5	0.050	0.99	15	
1,3-Dichloropropane	0.4389	0.4620	0.4726	0.4827	0.4706	0.4683	0.4380	0.4251	AVRG	R		2.186803		ug/L	0.4573	4	0.050	0.99	15	
Tetrachloroethene	0.1024	0.1086	0.1325	0.1746	0.1691	0.1910	0.1890	0.1735	LINR	R	0.397786	5.502124		ug/L	0.1551	0.996	0.050	0.99	15	
Dibromochloromethane	0.1987	0.2100	0.2161	0.2254	0.2253	0.2312	0.2229	0.2249	AVRG	R		4.559602		ug/L	0.2193	5	0.050	0.99	15	
1,2-Dibromoethane	0.2001	0.2008	0.2119	0.2211	0.2157	0.2180	0.2138	0.2124	AVRG	R		4.723125		ug/L	0.2117	4	0.050	0.99	15	
Chlorobenzene	0.5567	0.5160	0.5276	0.5654	0.5698	0.5729	0.5488	0.5289	AVRG	R		1.823986		ug/L	0.5482	4	0.30	0.99	15	
1,1,1,2-Tetrachloroethane	0.1605	0.1693	0.1869	0.1887	0.1896	0.2002	0.1896	0.1895	AVRG	R		5.426352		ug/L	0.1843	7	0.050	0.99	15	
Ethylbenzene	0.9026	0.8113	0.8857	0.9985	0.9991	1.0216	0.9315	0.8607	AVRG	R		1.079459		ug/L	0.9264	8	0.050	0.99	15	
m,p-Xylenes	0.2767	0.2810	0.3029	0.3456	0.3529	0.3666	0.3329	0.3116	AVRG	R		3.112625		ug/L	0.3213	10	0.050	0.99	15	
o-Xylene	0.2912	0.2939	0.3043	0.3348	0.3390	0.3596	0.3342	0.3174	AVRG	R		3.107514		ug/L	0.3218	8	0.050	0.99	15	
Styrene	0.5548	0.5275	0.5636	0.6055	0.6189	0.6352	0.5876	0.5647	AVRG	R		1.717548		ug/L	0.5822	6	0.050	0.99	15	309
Bromoform	0.1688	0.1316	0.1365	0.1390	0.1418	0.1504	0.1438	0.1479	AVRG	R		6.897647		ug/L	0.1450	8	0.10	0.99	15	
Isopropylbenzene	1.5438	1.4555	1.6073	2.0268	1.9776	2.0193	1.9027	1.6939	AVRG	R		0.562316		ug/L	1.7784	13	0.050	0.99	15	
1,1,2,2-Tetrachloroethane	0.9032	0.8304	0.8962	0.9078	0.8967	0.8572	0.8192	0.7941	AVRG	R		1.158629		ug/L	0.8631	5	0.30	0.99	15	
1,2,3-Trichloropropane	0.1668	0.1926	0.2120	0.2073	0.2063	0.2019	0.1926	0.1905	AVRG	R		5.095546		ug/L	0.1962	7	0.050	0.99	15	
Propylbenzene	2.0577	1.8904	2.2141	2.6620	2.6527	2.5749	2.3658	2.0471	AVRG	R		0.433261		ug/L	2.3081	13	0.050	0.99	15	
Bromobenzene	0.4531	0.4099	0.4353	0.4517	0.4577	0.4711	0.4550	0.4423	AVRG	R		2.237073		ug/L	0.4470	4	0.050	0.99	15	
1,3,5-Trimethylbenzene	1.2777	1.2852	1.3139	1.6063	1.5918	1.6205	1.4605	1.3280	AVRG	R		0.696621		ug/L	1.4355	11	0.050	0.99	15	
2-Chlorotoluene	1.7862	1.5835	1.6041	1.7827	1.7598	1.7075	1.5311	1.3994	AVRG	R		0.608172		ug/L	1.6443	8	0.050	0.99	15	
4-Chlorotoluene	1.6456	1.4988	1.5292	1.6648	1.6162	1.6258	1.5251	1.4182	AVRG	R		0.638789		ug/L	1.5655	5	0.050	0.99	15	
tert-Butylbenzene	0.8774	0.8388	1.0060	1.2841	1.2444	1.3217	1.2677		LINR	R	0.450397	0.773405		ug/L	1.1200	0.999	0.050	0.99	15	
1,2,4-Trimethylbenzene	1.4339	1.3416	1.4258	1.6135	1.5924	1.5935	1.5202	1.4123	AVRG	R		0.670398		ug/L	1.4917	7	0.050	0.99	15	
sec-Butylbenzene	1.2475	1.3272	1.6220	2.1791	2.1613	2.2313	2.1074		LINR	R	0.327947	0.462987		ug/L	1.8394	0.998	0.050	0.99	15	
para-Isopropyl Toluene	1.0840	1.0360	1.2061	1.5480	1.5565	1.6336	1.5342		LINR	R	0.356802	0.634935		ug/L	1.3712	0.998	0.050	0.99	15	
1,3-Dichlorobenzene	0.8091	0.7340	0.8052	0.8442	0.8505	0.8577	0.8387	0.8175	AVRG	R		1.220070		ug/L	0.8196	5	0.050	0.99	15	
1,4-Dichlorobenzene	0.7822	0.8183	0.8098	0.9145	0.8748	0.8893	0.8767	0.8502	AVRG	R		1.173746		ug/L	0.8520	5	0.050	0.99	15	
n-Butylbenzene	1.0807	1.0327	1.2935	1.7274	1.6448	1.6976	1.6096		LINR	R	0.207835	0.608073		ug/L	1.4409	0.999	0.050	0.99	15	
1,2-Dichlorobenzene	0.7369	0.7380	0.7629	0.8303	0.8134	0.8229	0.8021	0.7916	AVRG	R		1.270222		ug/L	0.7873	5	0.050	0.99	15	
1,2-Dibromo-3-Chloropropane	0.1732	0.1755	0.1583	0.1618	0.1603	0.1554	0.1438	0.1452	AVRG	R		6.281555		ug/L	0.1592	7	0.050	0.99	15	
1,2,4-Trichlorobenzene	0.3325	0.3446	0.3744	0.4148	0.4141	0.4276	0.4232	0.4135	AVRG	R		2.544061		ug/L	0.3931	10	0.050	0.99	15	
Hexachlorobutadiene	0.0550	0.0680	0.0965	0.1488	0.1496	0.1632	0.1604	0.1413	LINR	R	0.220488	6.609546		ug/L	0.1229	0.992	0.050	0.99	15	

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Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Naphthalene	0.9422	0.9239	1.0503	1.1446	1.1383	1.1668	1.1398	1.1973	AVRG	R		0.919202		ug/L	1.0879	10	0.050	0.99	15	
1,2,3-Trichlorobenzene	0.3231	0.3429	0.3624	0.4014	0.4064	0.4080	0.4047	0.4118	AVRG	R		2.613631		ug/L	0.3826	9	0.050	0.99	15	
tert-Butyl Alcohol (TBA)	0.0639	0.0587	0.0634	0.0624	0.0622	0.0598	0.0547	0.0567	AVRG	R		16.60685		ug/L	0.0602	6	0.005	0.99	15	
Isopropyl Ether (DIPE)	2.4625	2.6487	2.7054	2.7350	2.6450	2.4987	2.2193	2.1070	AVRG	R		0.399572		ug/L	2.5027	9	0.050	0.99	15	
Ethyl tert-Butyl Ether (ETBE)	1.5816	1.6753	1.7529	1.7571	1.7211	1.6247	1.4924	1.4174	AVRG	R		0.614319		ug/L	1.6278	8	0.050	0.99	15	
Methyl tert-Amyl Ether (TAME)	0.7175	0.7019	0.7517	0.7718	0.7323	0.7051	0.6665	0.6303	AVRG	R		1.409185		ug/L	0.7096	6	0.050	0.99	15	
Cyclohexanone		0.1549	0.1132	0.1172	0.1123	0.1383	0.1222	0.1220	AVRG	R		7.952449		ug/L	0.1257	12	0.005	0.99	15	
Ethanol		0.0100	0.0109	0.0108	0.0111	0.0110	0.0098	0.0102	AVRG	R		94.87108		ug/L	0.0105	5	0.0005	0.99	15	
Isopropanol		0.0553	0.0544	0.0546	0.0553	0.0542	0.0488	0.0511	AVRG	R		18.72995		ug/L	0.0534	5	0.005	0.99	15	
Tetrahydrofuran		0.2651	0.2777	0.2672	0.2636	0.2341	0.2009	0.1890	AVRG	R		4.123493		ug/L	0.2425	15	0.005	0.99	15	
Dibromofluoromethane	0.7895	0.7897	0.7962	0.7990	0.7857	0.7599	0.7497	0.7444	AVRG	R		1.287404		ug/L	0.7768	3	0.050	0.99	15	
1,2-Dichloroethane-d4	0.5427	0.5307	0.5462	0.5415	0.5126	0.4835	0.4655	0.4394	AVRG	R		1.969427		ug/L	0.5078	8	0.050	0.99	15	
Trifluorotoluene	0.1167	0.1212	0.1619	0.2202	0.2198	0.2378	0.2363	0.2120	LINR	R	0.181402	4.460388		ug/L	0.1908	0.994	0.050	0.99	15	
Toluene-d8	1.1334	1.1229	1.1438	1.1248	1.1278	1.1228	1.1178	1.1078	AVRG	R		0.888778		ug/L	1.1251	1	0.050	0.99	15	
Bromofluorobenzene	1.3553	1.3675	1.3498	1.3266	1.2998	1.2772	1.2421	1.2086	AVRG	R		0.767243		ug/L	1.3034	4	0.050	0.99	15	

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m=manual integration

AVRG=Average response factor LINR=Linear regression QUAD=Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

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Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB110.D
Report Date: 02-Feb-2006 10:43

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB110.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 15:57 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.001/1000,S2552,0.002/1000,
Misc Info : S2028,0.001/1000,1.0/0.5 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 15:57 Cal File: HB110.D
Als bottle: 10 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.838	4.823	(0.462)	11211	1.00000	0.5104(M)
2 Chloromethane	50	5.350	5.324	(0.511)	30081	1.00000	1.2367(M)
3 Vinyl Chloride	62	5.419	5.413	(0.517)	16852	1.00000	0.9420(M)
4 Bromomethane	94	6.038	6.042	(0.577)	5415	1.00000	1.4923(M)
5 Chloroethane	64	6.186	6.190	(0.591)	11282	1.00000	1.0692(M)
6 Trichlorofluoromethane	101	6.520	6.534	(0.623)	10259	1.00000	0.7873
7 Ethanol	45	6.786	6.790	(0.648)	13617	50.0000	47.8354(A)
8 Freon 113	101	7.238	7.252	(0.691)	1591	0.50000	0.9103(M)
9 1,1-Dichloroethene	96	7.347	7.360	(0.701)	3912	0.50000	0.4023(aM)
10 Acetone	43	7.455	7.449	(0.712)	13458	0.50000	1.6494
11 Isopropanol	45	7.524	7.527	(0.718)	9709	5.00000	6.7335(A)
12 Carbon Disulfide	76	7.769	7.773	(0.742)	20263	0.50000	0.4175(a)
13 tert-Butyl Alcohol (TBA)	59	8.074	8.077	(0.771)	8627	5.00000	5.3049(A)
14 Methylene Chloride	84	8.104	8.108	(0.774)	19517	0.50000	1.2409(M)
15 MTBE	73	8.330	8.334	(0.795)	19136	0.50000	0.4877(a)
16 trans-1,2-Dichloroethene	96	8.428	8.422	(0.805)	6249	0.50000	0.5093
17 Isopropyl Ether (DIPE)	45	8.930	8.934	(0.853)	33251	0.50000	0.4919(aA)
18 Vinyl Acetate	43	8.999	9.003	(0.859)	20697	0.50000	0.4665(a)
19 1,1-Dichloroethane	63	9.068	9.072	(0.866)	12822	0.50000	0.4744(a)
20 Ethyl tert-Butyl Ether (ETBE)	59	9.442	9.445	(0.901)	21356	0.50000	0.4857(aA)
21 2-Butanone	43	9.855	9.849	(0.941)	8992	0.50000	0.7276
22 2,2-Dichloropropane	77	9.874	9.868	(0.943)	6916	0.50000	0.4374(a)

LW 2-2-06

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB110.D
Report Date: 02-Feb-2006 10:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.884	9.888	(0.944)	6999	0.50000	0.5191
	24 Tetrahydrofuran	42	10.248	10.252	(0.978)	41790	5.00000	6.3807(A)
	25 Bromochloromethane	128	10.248	10.262	(0.978)	2892	0.50000	0.4716(a)
	26 Chloroform	83	10.287	10.281	(0.982)	11003	0.50000	0.4907(a)
*	27 Pentafluorobenzene	168	10.474	10.478	(1.000)	1350317	50.0000	
$	28 Dibromofluoromethane	113	10.523	10.527	(1.005)	1066047	50.0000	50.8189
	29 1,1,1-Trichloroethane	97	10.573	10.576	(1.009)	5402	0.50000	0.3827(a)
	30 Carbon Tetrachloride	117	10.779	10.773	(0.929)	4118	0.50000	0.7117
	31 1,1-Dichloropropene	75	10.789	10.793	(0.930)	7071	0.50000	0.5143
$	32 1,2-Dichloroethane-d4	65	11.084	11.088	(0.955)	1568331	50.0000	53.4377
	33 Benzene	78	11.114	11.108	(0.958)	24749	0.50000	0.5120
	34 Methyl tert-Amyl Ether (TAME)	73	11.114	11.108	(0.958)	20735	0.50000	0.5055(A)
	35 1,2-Dichloroethane	62	11.192	11.206	(0.964)	9507	0.50000	0.4739(a)
*	36 1,4-Difluorobenzene	114	11.605	11.609	(1.000)	2890010	50.0000	
	37 Trichloroethene	95	12.009	12.012	(1.035)	4702	0.50000	0.4016(a)
$	38 Trifluorotoluene	146	12.353	12.367	(1.064)	3373	0.50000	0.4416(aA)
	39 1,2-Dichloropropane	63	12.412	12.416	(1.069)	8183	0.50000	0.4942(a)
	40 Dibromomethane	93	12.599	12.603	(1.086)	4115	0.50000	0.4482(a)
	41 Bromodichloromethane	83	12.746	12.750	(1.098)	8535	0.50000	0.4859(a)
	42 2-Chloroethylvinylether	63	13.081	13.085	(1.127)	1651	1.00000	1.4402
	43 Tetramethyl THF	43	13.307	13.311	(1.147)	20551	0.50000	0.5028(A)
	44 cis-1,3-Dichloropropene	75	13.356	13.360	(1.151)	11037	0.50000	0.4850(a)
	45 4-Methyl-2-Pentanone	43	13.484	13.498	(1.162)	13500	0.50000	0.5643
$	46 Toluene-d8	98	13.691	13.694	(1.180)	3275677	50.0000	50.3692
	47 Toluene	92	13.789	13.783	(1.188)	12267	0.50000	0.4720(a)
	48 trans-1,3-Dichloropropene	75	14.104	14.107	(1.215)	10398	0.50000	0.4969(a)
	49 1,1,2-Trichloroethane	85	14.369	14.373	(1.238)	3728	0.50000	0.5376
	50 Tetrachloroethene	166	14.497	14.501	(0.929)	2493	0.50000	0.6795
	51 2-Hexanone	43	14.586	14.589	(0.934)	6730	0.50000	0.4113(a)
	52 1,3-Dichloropropane	76	14.615	14.619	(0.936)	10682	0.50000	0.4798(a)
	53 Dibromochloromethane	129	14.890	14.894	(0.954)	4837	0.50000	0.4530(a)
	54 1,2-Dibromoethane	107	15.097	15.101	(1.301)	5782	0.50000	0.4724(a)
*	55 Chlorobenzene-d5	117	15.609	15.612	(1.000)	2433786	50.0000	
	56 Chlorobenzene	112	15.648	15.652	(1.003)	13548	0.50000	0.5076
	57 Ethylbenzene	91	15.697	15.701	(1.006)	21968	0.50000	0.4871(a)
	58 1,1,1,2-Tetrachloroethane	131	15.727	15.730	(1.008)	3907	0.50000	0.4355(a)
	59 m,p-Xylenes	106	15.835	15.839	(1.014)	13470	1.00000	0.8613
	60 o-Xylene	106	16.336	16.340	(1.047)	7086	0.50000	0.4523(a)
	61 Styrene	104	16.366	16.360	(1.049)	13502	0.50000	0.4764(a)
	62 Bromoform	173	16.661	16.665	(1.067)	4109	0.50000	0.5822
	63 Isopropylbenzene	105	16.730	16.734	(0.913)	15744	0.50000	0.4340(a)
	64 Cyclohexanone	55	16.986	16.980	(0.926)	16781	5.00000	6.5426(A)
$	65 Bromofluorobenzene	95	16.995	16.998	(0.927)	1382208	50.0000	51.9929
	66 1,1,2,2-Tetrachloroethane	83	17.133	17.137	(0.935)	9211	0.50000	0.5232
	67 Bromobenzene	156	17.212	17.206	(0.939)	4621	0.50000	0.5068
	68 Propylbenzene	91	17.202	17.206	(0.938)	20985	0.50000	0.4457(a)
	69 1,2,3-Trichloropropane	110	17.231	17.235	(0.940)	1701	0.50000	0.4249(a)
	70 2-Chlorotoluene	91	17.379	17.383	(0.948)	18216	0.50000	0.5431
	71 1,3,5-Trimethylbenzene	105	17.379	17.383	(0.948)	13031	0.50000	0.4450(a)
	72 4-Chlorotoluene	91	17.507	17.511	(0.955)	16783	0.50000	0.5256
	73 tert-Butylbenzene	119	17.763	17.766	(0.969)	8948	0.50000	0.7896
	74 1,2,4-Trimethylbenzene	105	17.831	17.835	(0.973)	14624	0.50000	0.4806(a)
	75 sec-Butylbenzene	105	18.018	18.022	(0.983)	12723	0.50000	0.6167
	76 para-Isopropyl Toluene	119	18.156	18.160	(0.990)	11055	0.50000	0.7009

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB110.D
Report Date: 02-Feb-2006 10:43

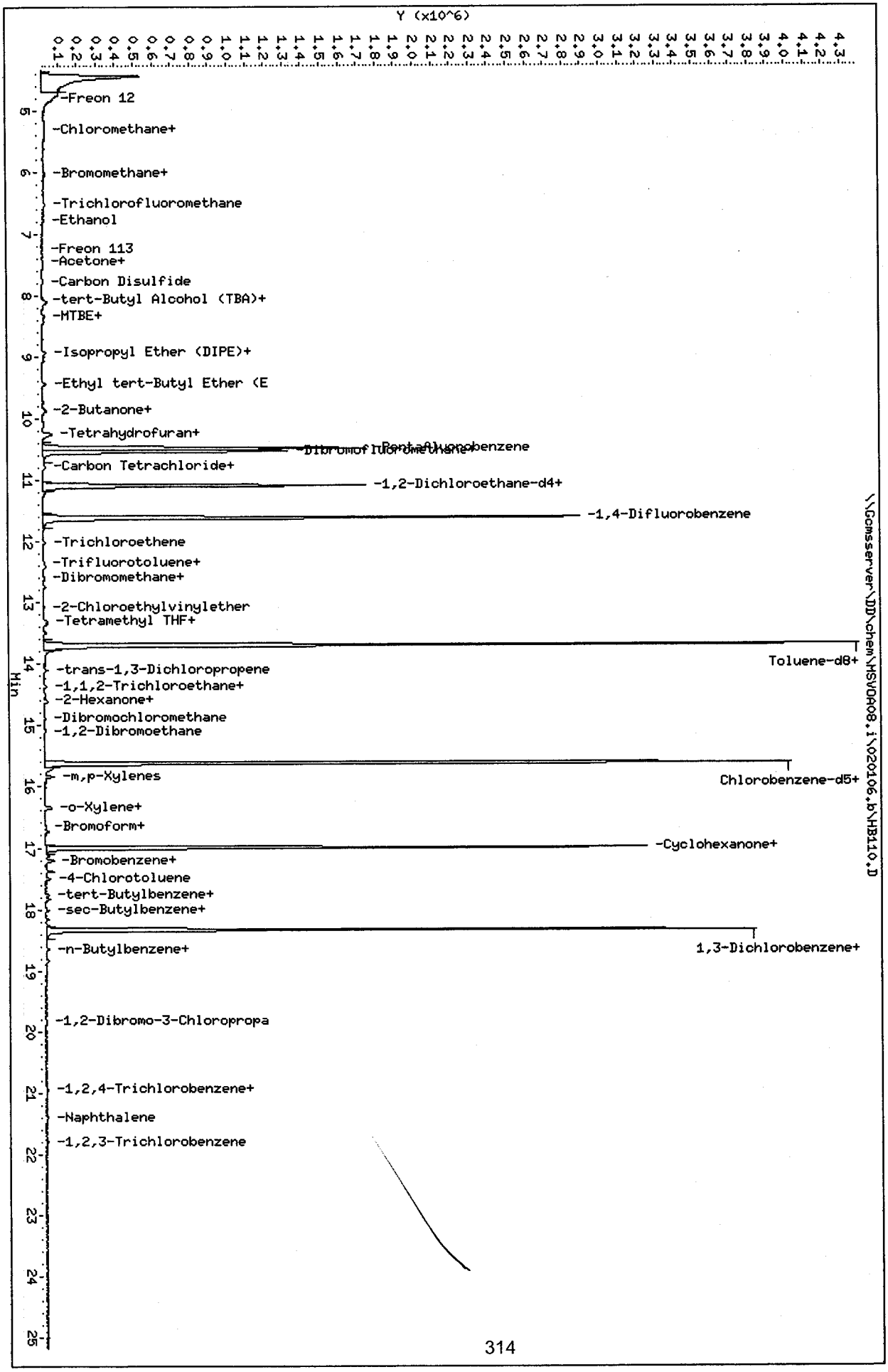
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.264	18.258	(0.996)	8252	0.50000	0.4936(a)
* 78 1,4-Dichlorobenzene-d4	152	18.333	18.337	(1.000)	1019841	50.0000	
79 1,4-Dichlorobenzene	146	18.372	18.366	(1.002)	7977	0.50000	0.4590(a)
80 n-Butylbenzene	91	18.648	18.642	(1.017)	11021	0.50000	0.5363
81 1,2-Dichlorobenzene	146	18.835	18.838	(1.027)	7515	0.50000	0.4680(a)
82 1,2-Dibromo-3-Chloropropane	75	19.828	19.832	(1.082)	1766	0.50000	0.5438
83 1,2,4-Trichlorobenzene	180	20.949	20.963	(1.143)	3391	0.50000	0.4229(a)
84 Hexachlorobutadiene	225	21.067	21.081	(1.149)	561	0.50000	0.4022(a)
85 Naphthalene	128	21.402	21.406	(1.167)	9609	0.50000	0.4330(a)
86 1,2,3-Trichlorobenzene	180	21.795	21.799	(1.189)	3295	0.50000	0.4222(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB110.D
Date : 01-FEB-2006 15:57
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.001/1000,S2552,0.002/1000,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB111.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB111.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 16:34 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.002/500,S2552,0.002/500,
Misc Info : S2028,0.001/500,2 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 16:34 Cal File: HB111.D
Als bottle: 11 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.823	4.823	(0.460)	26781	2.00000	1.3937(M)
2 Chloromethane	50	5.325	5.324	(0.508)	54029	2.00000	2.1792(M)
3 Vinyl Chloride	62	5.414	5.413	(0.517)	34330	2.00000	1.8827(M)
4 Bromomethane	94	6.053	6.042	(0.578)	9177	2.00000	1.9340(M)
5 Chloroethane	64	6.191	6.190	(0.591)	23192	2.00000	2.1563(M)
6 Trichlorofluoromethane	101	6.535	6.534	(0.624)	22381	2.00000	1.6851
7 Ethanol	45	6.781	6.790	(0.647)	55079	200.000	189.8147(A)
8 Freon 113	101	7.253	7.252	(0.692)	8700	2.00000	1.4885
9 1,1-Dichloroethene	96	7.351	7.360	(0.702)	15301	2.00000	1.5438
10 Acetone	43	7.459	7.449	(0.712)	26898	2.00000	3.2340
11 Isopropanol	45	7.518	7.527	(0.717)	30452	20.0000	20.7187(A)
12 Carbon Disulfide	76	7.764	7.773	(0.741)	83602	2.00000	1.6899
13 tert-Butyl Alcohol (TBA)	59	8.079	8.077	(0.771)	32300	20.0000	19.4849(A)
14 Methylene Chloride	84	8.099	8.108	(0.773)	40379	2.00000	2.5187(M)
15 MTBE	73	8.335	8.334	(0.795)	82163	2.00000	2.0544
16 trans-1,2-Dichloroethene	96	8.423	8.422	(0.804)	22054	2.00000	1.7634
17 Isopropyl Ether (DIPE)	45	8.935	8.934	(0.853)	145830	2.00000	2.1166(A)
18 Vinyl Acetate	43	9.004	9.003	(0.859)	92601	2.00000	2.0478
19 1,1-Dichloroethane	63	9.063	9.072	(0.865)	54964	2.00000	1.9953
20 Ethyl tert-Butyl Ether (ETBE)	59	9.436	9.445	(0.901)	92238	2.00000	2.0583(A)
21 2-Butanone	43	9.849	9.849	(0.940)	26867	2.00000	2.1330
22 2,2-Dichloropropane	77	9.869	9.868	(0.942)	27856	2.00000	1.7284

LW 2-2-06

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB111.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.879	9.888	(0.943)	26166	2.00000	1.9039
	24 Tetrahydrofuran	42	10.253	10.252	(0.978)	145964	20.0000	21.8635(A)
	25 Bromochloromethane	128	10.253	10.262	(0.978)	11872	2.00000	1.8994
	26 Chloroform	83	10.282	10.281	(0.981)	45453	2.00000	1.9887
*	27 Pentafluorobenzene	168	10.479	10.478	(1.000)	1376448	50.0000	
$	28 Dibromofluoromethane	113	10.528	10.527	(1.005)	1086918	50.0000	50.8302
	29 1,1,1-Trichloroethane	97	10.567	10.576	(1.008)	24880	2.00000	1.7293
	30 Carbon Tetrachloride	117	10.774	10.773	(0.928)	14767	2.00000	1.5430
	31 1,1-Dichloropropene	75	10.784	10.793	(0.929)	24519	2.00000	1.4498
$	32 1,2-Dichloroethane-d4	65	11.089	11.088	(0.955)	1561574	50.0000	52.2629
	33 Benzene	78	11.108	11.108	(0.957)	95194	2.00000	1.9343
	34 Methyl tert-Amyl Ether (TAME)	73	11.108	11.108	(0.957)	82610	2.00000	1.9783(A)
	35 1,2-Dichloroethane	62	11.197	11.206	(0.964)	41968	2.00000	2.0551
*	36 1,4-Difluorobenzene	114	11.610	11.609	(1.000)	2942240	50.0000	
	37 Trichloroethene	95	12.013	12.012	(1.035)	20382	2.00000	1.7102
$	38 Trifluorotoluene	146	12.358	12.367	(1.064)	14261	2.00000	1.2623(A)
	39 1,2-Dichloropropane	63	12.407	12.416	(1.069)	33962	2.00000	2.0146
	40 Dibromomethane	93	12.603	12.603	(1.086)	19265	2.00000	2.0614
	41 Bromodichloromethane	83	12.741	12.750	(1.097)	35917	2.00000	2.0086
	42 2-Chloroethylvinylether	63	13.085	13.085	(1.127)	4671	2.00000	2.0355
	43 Tetramethyl THF	43	13.312	13.311	(1.147)	84674	2.00000	2.0348(A)
	44 cis-1,3-Dichloropropene	75	13.361	13.360	(1.151)	45611	2.00000	1.9689
	45 4-Methyl-2-Pentanone	43	13.489	13.498	(1.162)	45586	2.00000	1.8717
$	46 Toluene-d8	98	13.695	13.694	(1.180)	3303834	50.0000	49.9003
	47 Toluene	92	13.784	13.783	(1.187)	47862	2.00000	1.8090
	48 trans-1,3-Dichloropropene	75	14.108	14.107	(1.215)	40673	2.00000	1.9093
	49 1,1,2-Trichloroethane	85	14.364	14.373	(1.237)	13675	2.00000	1.9370
	50 Tetrachloroethene	166	14.492	14.501	(0.928)	10735	2.00000	1.5932
	51 2-Hexanone	43	14.590	14.589	(0.934)	31655	2.00000	1.9062
	52 1,3-Dichloropropane	76	14.610	14.619	(0.936)	45656	2.00000	2.0206
	53 Dibromochloromethane	129	14.895	14.894	(0.954)	20753	2.00000	1.9151
	54 1,2-Dibromoethane	107	15.092	15.101	(1.300)	23629	2.00000	1.8965
*	55 Chlorobenzene-d5	117	15.613	15.612	(1.000)	2470484	50.0000	
	56 Chlorobenzene	112	15.652	15.652	(1.003)	50986	2.00000	1.8821
	57 Ethylbenzene	91	15.702	15.701	(1.006)	80176	2.00000	1.7516
	58 1,1,1,2-Tetrachloroethane	131	15.731	15.730	(1.008)	16726	2.00000	1.8369
	59 m,p-Xylenes	106	15.839	15.839	(1.014)	55527	4.00000	3.4979
	60 o-Xylene	106	16.341	16.340	(1.047)	29040	2.00000	1.8264
	61 Styrene	104	16.361	16.360	(1.048)	52127	2.00000	1.8120
	62 Bromoform	173	16.666	16.665	(1.067)	13004	2.00000	1.8153
	63 Isopropylbenzene	105	16.734	16.734	(0.913)	59500	2.00000	1.6369
	64 Cyclohexanone	55	16.980	16.980	(0.926)	63331	20.0000	24.6403(A)
$	65 Bromofluorobenzene	95	17.000	16.998	(0.927)	1397565	50.0000	52.4608
	66 1,1,2,2-Tetrachloroethane	83	17.138	17.137	(0.935)	33947	2.00000	1.9243
	67 Bromobenzene	156	17.207	17.206	(0.938)	16755	2.00000	1.8338
	68 Propylbenzene	91	17.207	17.206	(0.938)	77276	2.00000	1.6380
	69 1,2,3-Trichloropropane	110	17.226	17.235	(0.939)	7872	2.00000	1.9624
	70 2-Chlorotoluene	91	17.384	17.383	(0.948)	64733	2.00000	1.9261
	71 1,3,5-Trimethylbenzene	105	17.384	17.383	(0.948)	52538	2.00000	1.7906
	72 4-Chlorotoluene	91	17.502	17.511	(0.954)	61268	2.00000	1.9147
	73 tert-Butylbenzene	119	17.767	17.766	(0.969)	34288	2.00000	1.7478
	74 1,2,4-Trimethylbenzene	105	17.836	17.835	(0.973)	54844	2.00000	1.7988
	75 sec-Butylbenzene	105	18.023	18.022	(0.983)	54254	2.00000	1.5568
	76 para-Isopropyl Toluene	119	18.161	18.160	(0.990)	42352	2.00000	1.6724

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB111.D
Report Date: 02-Feb-2006 10:44

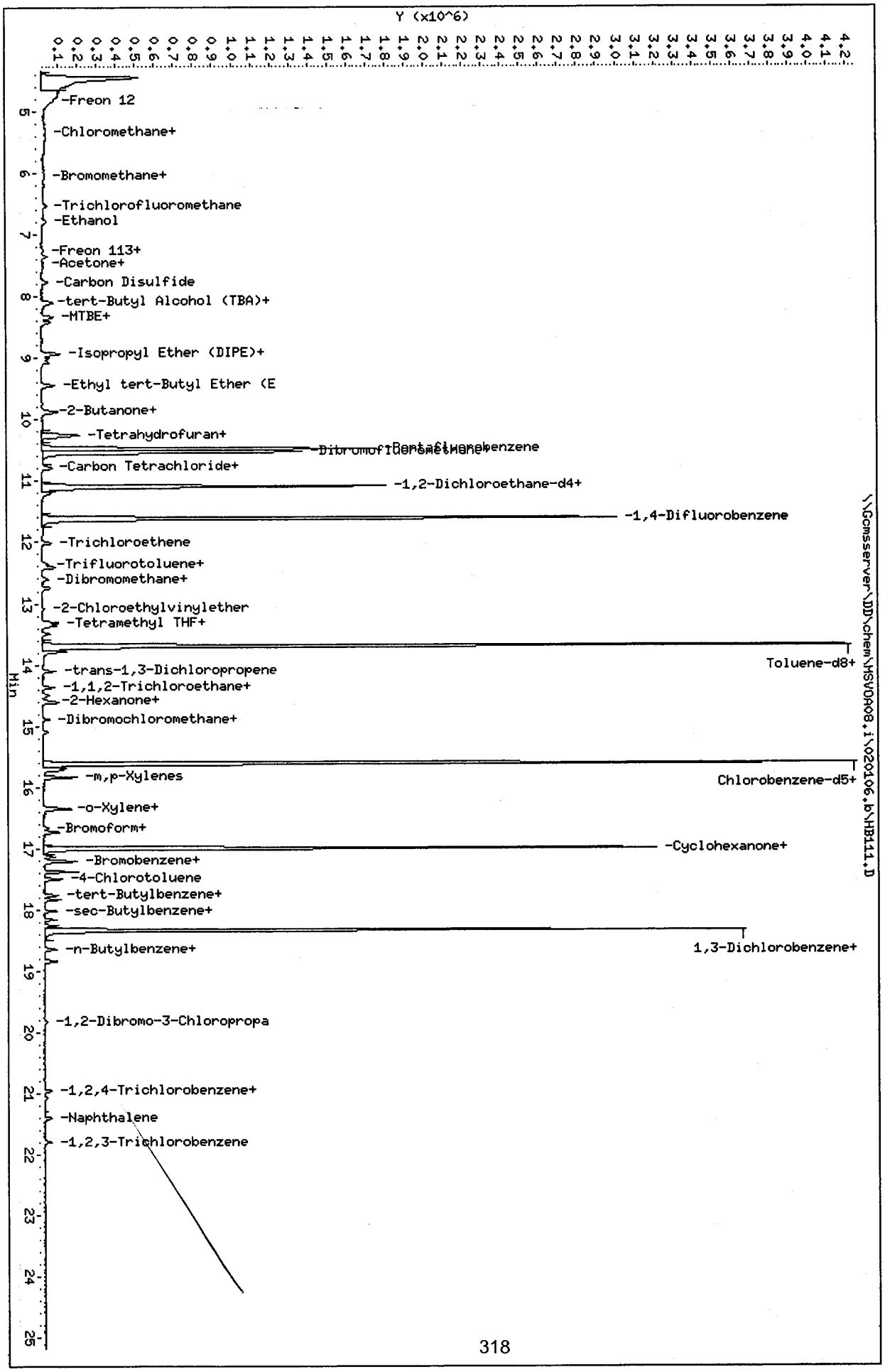
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.259	18.258	(0.996)	30004	2.00000	1.7909
* 78 1,4-Dichlorobenzene-d4	152	18.338	18.337	(1.000)	1021974	50.0000	
79 1,4-Dichlorobenzene	146	18.367	18.366	(1.002)	33450	2.00000	1.9208
80 n-Butylbenzene	91	18.643	18.642	(1.017)	42216	2.00000	1.4637
81 1,2-Dichlorobenzene	146	18.829	18.838	(1.027)	30170	2.00000	1.8749
82 1,2-Dibromo-3-Chloropropane	75	19.833	19.832	(1.082)	7174	2.00000	2.2047
83 1,2,4-Trichlorobenzene	180	20.954	20.963	(1.143)	14086	2.00000	1.7532
84 Hexachlorobutadiene	225	21.062	21.081	(1.149)	2780	2.00000	1.1194
85 Naphthalene	128	21.406	21.406	(1.167)	37770	2.00000	1.6985
86 1,2,3-Trichlorobenzene	180	21.790	21.799	(1.188)	14019	2.00000	1.7926

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB111.D
Date : 01-FEB-2006 16:34
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.002/500,S2552,0.002/500,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB112.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB112.D
Lab Smp Id:
Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 17:10
MS Autotune Date: 30-JAN-2006 09:15
Operator : LW
Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.002/200,S2552,0.002/200,
Misc Info : S2028,0.001/200,5 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target
Quant Type: ISTD
Cal Date : 01-FEB-2006 17:10
Cal File: HB112.D
Als bottle: 12
Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.829	4.823	(0.461)	72310	5.00000	4.1360(M)
2 Chloromethane	50	5.320	5.324	(0.508)	126396	5.00000	5.2486(M)
3 Vinyl Chloride	62	5.409	5.413	(0.516)	86467	5.00000	4.8820(M)
4 Bromomethane	94	6.048	6.042	(0.577)	32829	5.00000	4.8968(M)
5 Chloroethane	64	6.196	6.190	(0.592)	49301	5.00000	4.7192(M)
6 Trichlorofluoromethane	101	6.530	6.534	(0.623)	62054	5.00000	4.8102
7 Ethanol	45	6.786	6.790	(0.648)	145747	500.000	517.1152(A)
8 Freon 113	101	7.248	7.252	(0.692)	38990	5.00000	4.0571
9 1,1-Dichloroethene	96	7.356	7.360	(0.702)	44525	5.00000	4.6252
10 Acetone	43	7.445	7.449	(0.711)	41137	5.00000	5.0922
11 Isopropanol	45	7.524	7.527	(0.718)	72789	50.0000	50.9866(A)
12 Carbon Disulfide	76	7.769	7.773	(0.742)	236016	5.00000	4.9117
13 tert-Butyl Alcohol (TBA)	59	8.074	8.077	(0.771)	84736	50.0000	52.6270(A)
14 Methylene Chloride	84	8.104	8.108	(0.774)	84786	5.00000	5.4450
15 MTBE	73	8.330	8.334	(0.795)	205424	5.00000	5.2883
16 trans-1,2-Dichloroethene	96	8.419	8.422	(0.804)	59488	5.00000	4.8970
17 Isopropyl Ether (DIPE)	45	8.930	8.934	(0.853)	361694	5.00000	5.4049(A)
18 Vinyl Acetate	43	9.009	9.003	(0.860)	238375	5.00000	5.4272
19 1,1-Dichloroethane	63	9.068	9.072	(0.866)	142604	5.00000	5.3299
20 Ethyl tert-Butyl Ether (ETBE)	59	9.442	9.445	(0.901)	234361	5.00000	5.3843(A)
21 2-Butanone	43	9.855	9.849	(0.941)	65691	5.00000	5.3693
22 2,2-Dichloropropane	77	9.864	9.868	(0.942)	80357	5.00000	5.1333

LW 2-2-06

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB112.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.884	9.888	(0.944)	65201	5.00000	4.8844
	24 Tetrahydrofuran	42	10.248	10.252	(0.978)	371226	50.0000	57.2476(A)
	25 Bromochloromethane	128	10.248	10.262	(0.978)	32071	5.00000	5.2827
	26 Chloroform	83	10.278	10.281	(0.981)	117410	5.00000	5.2890
*	27 Pentafluorobenzene	168	10.474	10.478	(1.000)	1336953	50.0000	
$	28 Dibromofluoromethane	113	10.523	10.527	(1.005)	1064538	50.0000	51.2542
	29 1,1,1-Trichloroethane	97	10.573	10.576	(1.009)	67278	5.00000	4.8145
	30 Carbon Tetrachloride	117	10.769	10.773	(0.928)	48086	5.00000	4.2778
	31 1,1-Dichloropropene	75	10.789	10.793	(0.930)	72725	5.00000	4.1734
$	32 1,2-Dichloroethane-d4	65	11.084	11.088	(0.955)	1559307	50.0000	53.7830
	33 Benzene	78	11.104	11.108	(0.957)	242554	5.00000	5.0795
	34 Methyl tert-Amyl Ether (TAME)	73	11.104	11.108	(0.957)	214610	5.00000	5.2965(A)
	35 1,2-Dichloroethane	62	11.202	11.206	(0.965)	106497	5.00000	5.3746
*	36 1,4-Difluorobenzene	114	11.605	11.609	(1.000)	2854933	50.0000	
	37 Trichloroethene	95	12.009	12.012	(1.035)	56093	5.00000	4.8508
$	38 Trifluorotoluene	146	12.363	12.367	(1.065)	46235	5.00000	3.7931(A)
	39 1,2-Dichloropropane	63	12.412	12.416	(1.069)	85540	5.00000	5.2295
	40 Dibromomethane	93	12.599	12.603	(1.086)	47260	5.00000	5.2116
	41 Bromodichloromethane	83	12.746	12.750	(1.098)	87679	5.00000	5.0534
	42 2-Chloroethylvinylether	63	13.081	13.085	(1.127)	16770	5.00000	4.5322
	43 Tetramethyl THF	43	13.307	13.311	(1.147)	215078	5.00000	5.3267(A)
	44 cis-1,3-Dichloropropene	75	13.356	13.360	(1.151)	115163	5.00000	5.1233
	45 4-Methyl-2-Pentanone	43	13.494	13.498	(1.163)	129555	5.00000	5.4821
$	46 Toluene-d8	98	13.691	13.694	(1.180)	3265445	50.0000	50.8287
	47 Toluene	92	13.789	13.783	(1.188)	121468	5.00000	4.7315
	48 trans-1,3-Dichloropropene	75	14.104	14.107	(1.215)	106343	5.00000	5.1449
	49 1,1,2-Trichloroethane	85	14.369	14.373	(1.238)	34296	5.00000	5.0066
	50 Tetrachloroethene	166	14.497	14.501	(0.929)	32345	5.00000	4.0438
	51 2-Hexanone	43	14.586	14.589	(0.934)	85120	5.00000	5.1888
	52 1,3-Dichloropropane	76	14.615	14.619	(0.936)	115338	5.00000	5.1673
	53 Dibromochloromethane	129	14.891	14.894	(0.954)	52749	5.00000	4.9275
	54 1,2-Dibromoethane	107	15.097	15.101	(1.301)	60496	5.00000	5.0041
*	55 Chlorobenzene-d5	117	15.609	15.612	(1.000)	2440509	50.0000	
	56 Chlorobenzene	112	15.648	15.652	(1.003)	128768	5.00000	4.8119
	57 Ethylbenzene	91	15.697	15.701	(1.006)	216155	5.00000	4.7803
	58 1,1,1,2-Tetrachloroethane	131	15.727	15.730	(1.008)	45608	5.00000	5.0703
	59 m,p-Xylenes	106	15.835	15.839	(1.014)	147830	10.0000	9.4271
	60 o-Xylene	106	16.336	16.340	(1.047)	74271	5.00000	4.7284
	61 Styrene	104	16.356	16.360	(1.048)	137538	5.00000	4.8397
	62 Bromoform	173	16.671	16.665	(1.068)	33320	5.00000	4.7086
	63 Isopropylbenzene	105	16.730	16.734	(0.913)	166411	5.00000	4.5189
	64 Cyclohexanone	55	16.976	16.980	(0.926)	117249	50.0000	45.0281(A)
$	65 Bromofluorobenzene	95	16.995	16.998	(0.927)	1397593	50.0000	51.7830
	66 1,1,2,2-Tetrachloroethane	83	17.133	17.137	(0.935)	92791	5.00000	5.1918
	67 Bromobenzene	156	17.202	17.206	(0.938)	45067	5.00000	4.8686
	68 Propylbenzene	91	17.202	17.206	(0.938)	229240	5.00000	4.7963
	69 1,2,3-Trichloropropane	110	17.231	17.235	(0.940)	21953	5.00000	5.4020
	70 2-Chlorotoluene	91	17.379	17.383	(0.948)	166084	5.00000	4.8778
	71 1,3,5-Trimethylbenzene	105	17.389	17.383	(0.948)	136039	5.00000	4.5764
	72 4-Chlorotoluene	91	17.507	17.511	(0.955)	158334	5.00000	4.8843
	73 tert-Butylbenzene	119	17.763	17.766	(0.969)	104163	5.00000	4.3407
	74 1,2,4-Trimethylbenzene	105	17.831	17.835	(0.973)	147628	5.00000	4.7794
	75 sec-Butylbenzene	105	18.018	18.022	(0.983)	167935	5.00000	4.0827
	76 para-Isopropyl Toluene	119	18.156	18.160	(0.990)	124877	5.00000	4.1857

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB112.D
Report Date: 02-Feb-2006 10:44

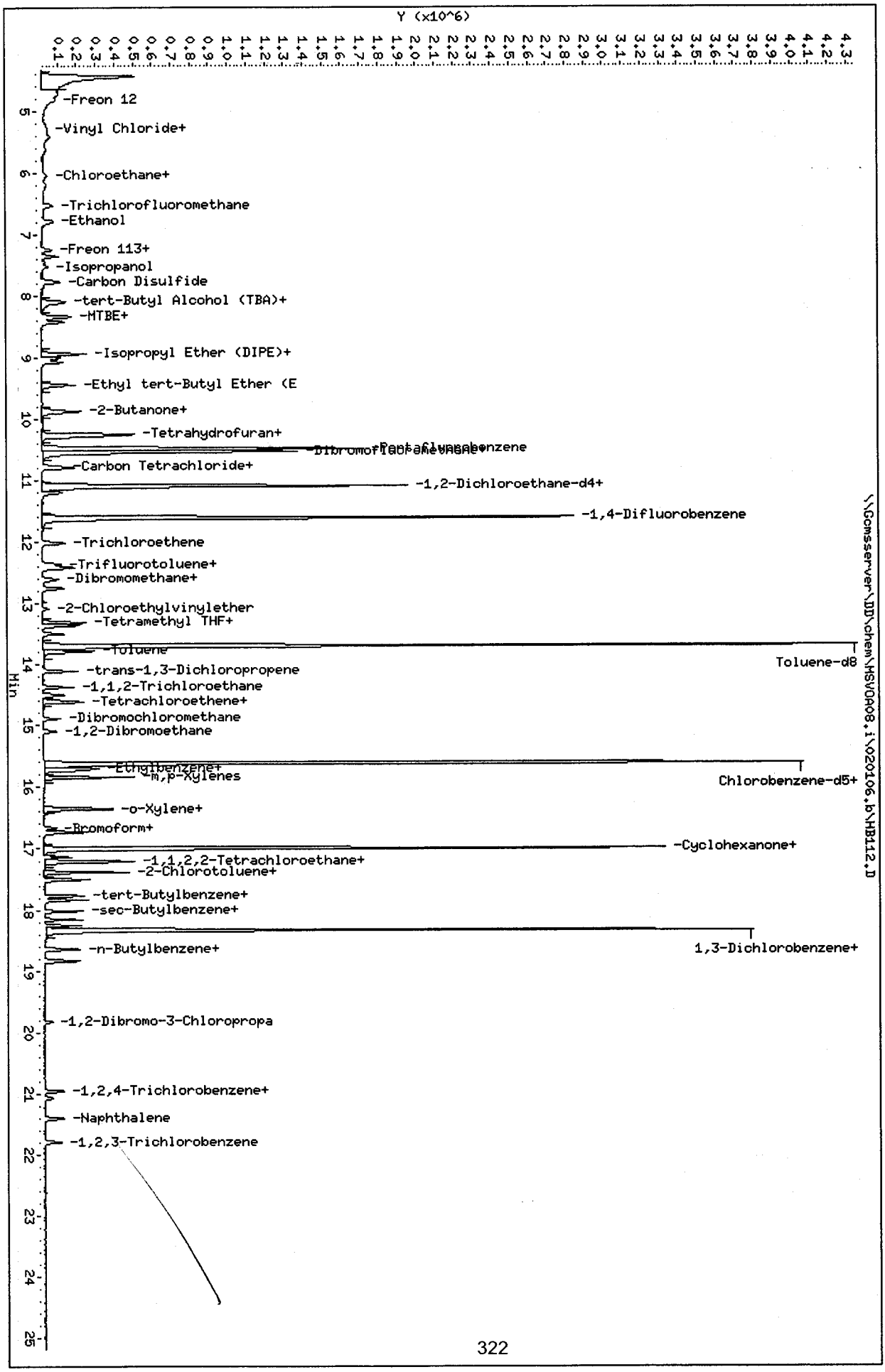
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.254	18.258	(0.996)	83366	5.00000	4.9118
* 78 1,4-Dichlorobenzene-d4	152	18.333	18.337	(1.000)	1035372	50.0000	
79 1,4-Dichlorobenzene	146	18.363	18.366	(1.002)	83847	5.00000	4.7526
80 n-Butylbenzene	91	18.648	18.642	(1.017)	133923	5.00000	4.1404
81 1,2-Dichlorobenzene	146	18.835	18.838	(1.027)	78989	5.00000	4.8452
82 1,2-Dibromo-3-Chloropropane	75	19.838	19.832	(1.082)	16393	5.00000	4.9727
83 1,2,4-Trichlorobenzene	180	20.959	20.963	(1.143)	38760	5.00000	4.7619
84 Hexachlorobutadiene	225	21.077	21.081	(1.150)	9989	5.00000	3.4088
85 Naphthalene	128	21.402	21.406	(1.167)	108748	5.00000	4.8273
86 1,2,3-Trichlorobenzene	180	21.795	21.799	(1.189)	37527	5.00000	4.7365

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Ccmsserver\DD\chem\MSVOA08.i\020106.b\HB112.D
Date : 01-FEB-2006 17:10
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.002/200,S2552,0.002/200,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB113.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB113.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 17:47 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.002/100,S2552,0.002/100,
Misc Info : S2028,0.001/100,10 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 17:47 Cal File: HB113.D
Als bottle: 13 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.816	4.823	(0.459)	180826	10.0000	10.2120
2 Chloromethane	50	5.327	5.324	(0.508)	263312	10.0000	10.5752
3 Vinyl Chloride	62	5.416	5.413	(0.517)	203819	10.0000	11.1300
4 Bromomethane	94	6.045	6.042	(0.577)	76870	10.0000	9.9974(M)
5 Chloroethane	64	6.193	6.190	(0.591)	119125	10.0000	11.0287(M)
6 Trichlorofluoromethane	101	6.527	6.534	(0.623)	153053	10.0000	11.4747
7 Ethanol	45	6.783	6.790	(0.647)	299859	1000.00	1028.9771(A)
8 Freon 113	101	7.245	7.252	(0.691)	117145	10.0000	10.3070
9 1,1-Dichloroethene	96	7.353	7.360	(0.702)	115590	10.0000	11.6130
10 Acetone	43	7.452	7.449	(0.711)	84028	10.0000	10.0600
11 Isopropanol	45	7.521	7.527	(0.718)	151004	100.000	102.3009(A)
12 Carbon Disulfide	76	7.766	7.773	(0.741)	562381	10.0000	11.3194
13 tert-Butyl Alcohol (TBA)	59	8.081	8.077	(0.771)	172489	100.000	103.6104(A)
14 Methylene Chloride	84	8.101	8.108	(0.773)	161314	10.0000	10.0196
15 MTBE	73	8.337	8.334	(0.795)	428965	10.0000	10.6804
16 trans-1,2-Dichloroethene	96	8.425	8.422	(0.804)	134649	10.0000	10.7204
17 Isopropyl Ether (DIPE)	45	8.937	8.934	(0.853)	756142	10.0000	10.9283(A)
18 Vinyl Acetate	43	9.006	9.003	(0.859)	527037	10.0000	11.6054
19 1,1-Dichloroethane	63	9.065	9.072	(0.865)	298414	10.0000	10.7871
20 Ethyl tert-Butyl Ether (ETBE)	59	9.438	9.445	(0.901)	485773	10.0000	10.7939(A)
21 2-Butanone	43	9.852	9.849	(0.940)	130789	10.0000	10.3392
22 2,2-Dichloropropane	77	9.871	9.868	(0.942)	189689	10.0000	11.7198

LW 2-2-06

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB113.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.881	9.888	(0.943)	146313	10.0000	10.6009
	24 Tetrahydrofuran	42	10.255	10.252	(0.978)	738822	100.000	110.1944(A)
	25 Bromochloromethane	128	10.255	10.262	(0.978)	64439	10.0000	10.2659
	26 Chloroform	83	10.284	10.281	(0.981)	247936	10.0000	10.8021
*	27 Pentafluorobenzene	168	10.481	10.478	(1.000)	1382341	50.0000	
$	28 Dibromofluoromethane	113	10.530	10.527	(1.005)	1104495	50.0000	51.4320
	29 1,1,1-Trichloroethane	97	10.570	10.576	(1.008)	167345	10.0000	11.5824
	30 Carbon Tetrachloride	117	10.776	10.773	(0.928)	128915	10.0000	10.6027
	31 1,1-Dichloropropene	75	10.796	10.793	(0.930)	191938	10.0000	10.5803
$	32 1,2-Dichloroethane-d4	65	11.091	11.088	(0.955)	1579783	50.0000	53.3235
	33 Benzene	78	11.111	11.108	(0.957)	530418	10.0000	10.8703
	34 Methyl tert-Amyl Ether (TAME)	73	11.111	11.108	(0.957)	450333	10.0000	10.8763(A)
	35 1,2-Dichloroethane	62	11.199	11.206	(0.964)	223586	10.0000	11.0423
*	36 1,4-Difluorobenzene	114	11.612	11.609	(1.000)	2917347	50.0000	
	37 Trichloroethene	95	12.015	12.012	(1.035)	129927	10.0000	10.9954
$	38 Trifluorotoluene	146	12.360	12.367	(1.064)	128498	10.0000	10.0045(A)
	39 1,2-Dichloropropane	63	12.409	12.416	(1.069)	176741	10.0000	10.5740
	40 Dibromomethane	93	12.596	12.603	(1.085)	98219	10.0000	10.5994
	41 Bromodichloromethane	83	12.743	12.750	(1.097)	187752	10.0000	10.5896
	42 2-Chloroethylvinylether	63	13.088	13.085	(1.127)	39304	10.0000	8.9005
	43 Tetramethyl THF	43	13.304	13.311	(1.146)	447845	10.0000	10.8543(A)
	44 cis-1,3-Dichloropropene	75	13.363	13.360	(1.151)	244787	10.0000	10.6570
	45 4-Methyl-2-Pentanone	43	13.491	13.498	(1.162)	248439	10.0000	10.2877
$	46 Toluene-d8	98	13.687	13.694	(1.179)	3281362	50.0000	49.9838
	47 Toluene	92	13.786	13.783	(1.187)	274190	10.0000	10.4519
	48 trans-1,3-Dichloropropene	75	14.101	14.107	(1.214)	228817	10.0000	10.8334
	49 1,1,2-Trichloroethane	85	14.366	14.373	(1.237)	70490	10.0000	10.0702
	50 Tetrachloroethene	166	14.494	14.501	(0.928)	87717	10.0000	10.0019
	51 2-Hexanone	43	14.592	14.589	(0.934)	164363	10.0000	9.7319
	52 1,3-Dichloropropane	76	14.612	14.619	(0.936)	242564	10.0000	10.5555
	53 Dibromochloromethane	129	14.887	14.894	(0.953)	113265	10.0000	10.2770
	54 1,2-Dibromoethane	107	15.094	15.101	(1.300)	129013	10.0000	10.4434
*	55 Chlorobenzene-d5	117	15.615	15.612	(1.000)	2512600	50.0000	
	56 Chlorobenzene	112	15.655	15.652	(1.003)	284104	10.0000	10.3120
	57 Ethylbenzene	91	15.704	15.701	(1.006)	501745	10.0000	10.7779
	58 1,1,1,2-Tetrachloroethane	131	15.733	15.730	(1.008)	94829	10.0000	10.2399
	59 m,p-Xylenes	106	15.842	15.839	(1.014)	347325	20.0000	21.5134
	60 o-Xylene	106	16.343	16.340	(1.047)	168268	10.0000	10.4054
	61 Styrene	104	16.363	16.360	(1.048)	304292	10.0000	10.4003
	62 Bromoform	173	16.668	16.665	(1.067)	69845	10.0000	9.5870
	63 Isopropylbenzene	105	16.737	16.734	(0.913)	431703	10.0000	11.3970
	64 Cyclohexanone	55	16.973	16.980	(0.925)	249568	100.000	93.1786(A)
$	65 Bromofluorobenzene	95	17.002	16.998	(0.927)	1412836	50.0000	50.8922
	66 1,1,2,2-Tetrachloroethane	83	17.130	17.137	(0.934)	193356	10.0000	10.5178
	67 Bromobenzene	156	17.209	17.206	(0.938)	96211	10.0000	10.1048
	68 Propylbenzene	91	17.199	17.206	(0.938)	567003	10.0000	11.5335
	69 1,2,3-Trichloropropane	110	17.228	17.235	(0.939)	44148	10.0000	10.5615
	70 2-Chlorotoluene	91	17.386	17.383	(0.948)	379715	10.0000	10.8420
	71 1,3,5-Trimethylbenzene	105	17.386	17.383	(0.948)	342147	10.0000	11.1901
	72 4-Chlorotoluene	91	17.504	17.511	(0.954)	354595	10.0000	10.6344
	73 tert-Butylbenzene	119	17.769	17.766	(0.969)	273503	10.0000	10.3814
	74 1,2,4-Trimethylbenzene	105	17.838	17.835	(0.973)	343662	10.0000	10.8166
	75 sec-Butylbenzene	105	18.015	18.022	(0.982)	464149	10.0000	10.4170
	76 para-Isopropyl Toluene	119	18.163	18.160	(0.990)	329729	10.0000	10.1858

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB113.D
Report Date: 02-Feb-2006 10:44

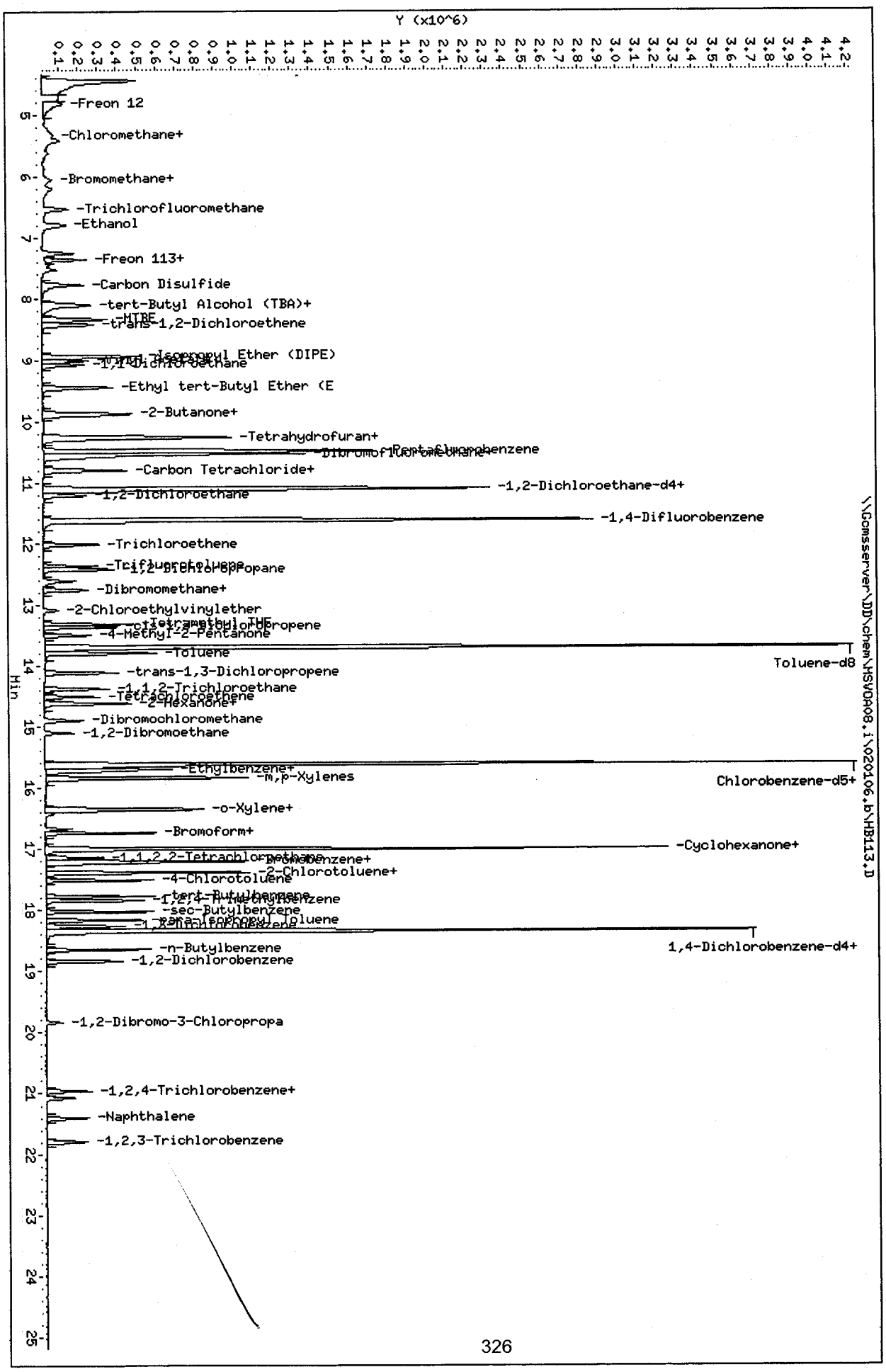
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.261	18.258	(0.996)	179816	10.0000	10.3000
* 78 1,4-Dichlorobenzene-d4	152	18.340	18.337	(1.000)	1064985	50.0000	
79 1,4-Dichlorobenzene	146	18.369	18.366	(1.002)	194789	10.0000	10.7340
80 n-Butylbenzene	91	18.645	18.642	(1.017)	367932	10.0000	10.7117
81 1,2-Dichlorobenzene	146	18.841	18.838	(1.027)	176845	10.0000	10.5462
82 1,2-Dibromo-3-Chloropropane	75	19.825	19.832	(1.081)	34463	10.0000	10.1635
83 1,2,4-Trichlorobenzene	180	20.956	20.963	(1.143)	88343	10.0000	10.5517
84 Hexachlorobutadiene	225	21.074	21.081	(1.149)	31699	10.0000	10.0570
85 Naphthalene	128	21.399	21.406	(1.167)	243792	10.0000	10.5210
86 1,2,3-Trichlorobenzene	180	21.792	21.799	(1.188)	85507	10.0000	10.4923

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB113.D
Date : 01-FEB-2006 17:47
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.002/100,S2552,0.002/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB114.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB114.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 18:24 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.004/100,S2552,0.004/100,
Misc Info : S2028,0.002/100,20 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 18:24 Cal File: HB114.D
Als bottle: 14 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.823	4.823	(0.460)	370534	20.0000	21.4500
2 Chloromethane	50	5.314	5.324	(0.507)	499856	20.0000	20.4252
3 Vinyl Chloride	62	5.413	5.413	(0.517)	391868	20.0000	21.7719
4 Bromomethane	94	6.042	6.042	(0.577)	153992	20.0000	19.3350(M)
5 Chloroethane	64	6.200	6.190	(0.592)	225120	20.0000	21.2051(M)
6 Trichlorofluoromethane	101	6.524	6.534	(0.623)	302651	20.0000	23.0859
7 Ethanol	45	6.790	6.790	(0.648)	600749	2000.00	2097.4218(A)
8 Freon 113	101	7.242	7.252	(0.691)	236536	20.0000	20.3542
9 1,1-Dichloroethene	96	7.350	7.360	(0.702)	219803	20.0000	22.4680
10 Acetone	43	7.449	7.449	(0.711)	166976	20.0000	20.3392
11 Isopropanol	45	7.518	7.527	(0.717)	300282	200.000	206.9782(A)
12 Carbon Disulfide	76	7.764	7.773	(0.741)	1101938	20.0000	22.5659
13 tert-Butyl Alcohol (TBA)	59	8.078	8.077	(0.771)	338059	200.000	206.6040(A)
14 Methylene Chloride	84	8.108	8.108	(0.774)	311554	20.0000	19.6886
15 MTBE	73	8.334	8.334	(0.795)	824285	20.0000	20.8808
16 trans-1,2-Dichloroethene	96	8.423	8.422	(0.804)	258273	20.0000	20.9215
17 Isopropyl Ether (DIPE)	45	8.934	8.934	(0.853)	1437448	20.0000	21.1371(A)
18 Vinyl Acetate	43	9.003	9.003	(0.859)	1026604	20.0000	22.9999
19 1,1-Dichloroethane	63	9.062	9.072	(0.865)	565678	20.0000	20.8047
20 Ethyl tert-Butyl Ether (ETBE)	59	9.436	9.445	(0.901)	935339	20.0000	21.1456(A)
21 2-Butanone	43	9.849	9.849	(0.940)	251185	20.0000	20.2029
22 2,2-Dichloropropane	77	9.868	9.868	(0.942)	356072	20.0000	22.3832

LW 2-2-06

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB114.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.888	9.888	(0.944)	280591	20.0000	20.6842
	24 Tetrahydrofuran	42	10.252	10.252	(0.978)	1432475	200.000	217.3758(A)
	25 Bromochloromethane	128	10.252	10.262	(0.978)	129463	20.0000	20.9846
	26 Chloroform	83	10.281	10.281	(0.981)	480058	20.0000	21.2798
*	27 Pentafluorobenzene	168	10.478	10.478	(1.000)	1358661	50.0000	
$	28 Dibromofluoromethane	113	10.527	10.527	(1.005)	1067532	50.0000	50.5771
	29 1,1,1-Trichloroethane	97	10.577	10.576	(1.009)	320404	20.0000	22.5626
	30 Carbon Tetrachloride	117	10.773	10.773	(0.928)	247688	20.0000	19.9125
	31 1,1-Dichloropropene	75	10.793	10.793	(0.930)	370978	20.0000	20.2228
$	32 1,2-Dichloroethane-d4	65	11.088	11.088	(0.955)	1503527	50.0000	50.4739
	33 Benzene	78	11.108	11.108	(0.957)	1009727	20.0000	20.5809
	34 Methyl tert-Amyl Ether (TAME)	73	11.108	11.108	(0.957)	859185	20.0000	20.6381(A)
	35 1,2-Dichloroethane	62	11.196	11.206	(0.964)	422372	20.0000	20.7466
*	36 1,4-Difluorobenzene	114	11.609	11.609	(1.000)	2933280	50.0000	
	37 Trichloroethene	95	12.013	12.012	(1.035)	253014	20.0000	21.2957
$	38 Trifluorotoluene	146	12.357	12.367	(1.064)	257930	20.0000	19.7920(A)
	39 1,2-Dichloropropane	63	12.406	12.416	(1.069)	333500	20.0000	19.8441
	40 Dibromomethane	93	12.603	12.603	(1.086)	190970	20.0000	20.4969
	41 Bromodichloromethane	83	12.750	12.750	(1.098)	368427	20.0000	20.6672
	42 2-Chloroethylvinylether	63	13.085	13.085	(1.127)	102600	20.0000	20.8651
	43 Tetramethyl THF	43	13.311	13.311	(1.147)	884792	20.0000	21.3281(A)
	44 cis-1,3-Dichloropropene	75	13.360	13.360	(1.151)	479085	20.0000	20.7442
	45 4-Methyl-2-Pentanone	43	13.488	13.498	(1.162)	510252	20.0000	21.0145
$	46 Toluene-d8	98	13.694	13.694	(1.180)	3308192	50.0000	50.1187
	47 Toluene	92	13.783	13.783	(1.187)	562374	20.0000	21.3209
	48 trans-1,3-Dichloropropene	75	14.108	14.107	(1.215)	436119	20.0000	20.5361
	49 1,1,2-Trichloroethane	85	14.373	14.373	(1.238)	142090	20.0000	20.1888
	50 Tetrachloroethene	166	14.501	14.501	(0.929)	170143	20.0000	19.0015
	51 2-Hexanone	43	14.590	14.589	(0.934)	356790	20.0000	21.0969
	52 1,3-Dichloropropane	76	14.609	14.619	(0.936)	473653	20.0000	20.5838
	53 Dibromochloromethane	129	14.894	14.894	(0.954)	226745	20.0000	20.5457
	54 1,2-Dibromoethane	107	15.091	15.101	(1.300)	253136	20.0000	20.3797
*	55 Chlorobenzene-d5	117	15.612	15.612	(1.000)	2516018	50.0000	
	56 Chlorobenzene	112	15.652	15.652	(1.003)	573431	20.0000	20.7854
	57 Ethylbenzene	91	15.701	15.701	(1.006)	1005539	20.0000	21.5705
	58 1,1,1,2-Tetrachloroethane	131	15.730	15.730	(1.008)	190801	20.0000	20.5752
	59 m,p-Xylenes	106	15.839	15.839	(1.014)	710246	40.0000	43.9330
	60 o-Xylene	106	16.340	16.340	(1.047)	341185	20.0000	21.0697
	61 Styrene	104	16.360	16.360	(1.048)	622828	20.0000	21.2585
	62 Bromoform	173	16.665	16.665	(1.067)	142667	20.0000	19.5560
	63 Isopropylbenzene	105	16.734	16.734	(0.913)	865358	20.0000	22.2402
	64 Cyclohexanone	55	16.980	16.980	(0.926)	491556	200.000	178.6641(A)
$	65 Bromofluorobenzene	95	16.999	16.998	(0.927)	1421964	50.0000	49.8637
	66 1,1,2,2-Tetrachloroethane	83	17.137	17.137	(0.935)	392374	20.0000	20.7782
	67 Bromobenzene	156	17.206	17.206	(0.938)	200292	20.0000	20.4789
	68 Propylbenzene	91	17.206	17.206	(0.938)	1160802	20.0000	22.9864
	69 1,2,3-Trichloropropane	110	17.225	17.235	(0.939)	90271	20.0000	21.0233
	70 2-Chlorotoluene	91	17.383	17.383	(0.948)	770050	20.0000	21.4046
	71 1,3,5-Trimethylbenzene	105	17.383	17.383	(0.948)	696538	20.0000	22.1770
	72 4-Chlorotoluene	91	17.511	17.511	(0.955)	707232	20.0000	20.6482
	73 tert-Butylbenzene	119	17.766	17.766	(0.969)	544555	20.0000	19.6995
	74 1,2,4-Trimethylbenzene	105	17.835	17.835	(0.973)	696802	20.0000	21.3503
	75 sec-Butylbenzene	105	18.022	18.022	(0.983)	945752	20.0000	20.3408
	76 para-Isopropyl Toluene	119	18.160	18.160	(0.990)	681102	20.0000	20.1221

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB114.D
Report Date: 02-Feb-2006 10:44

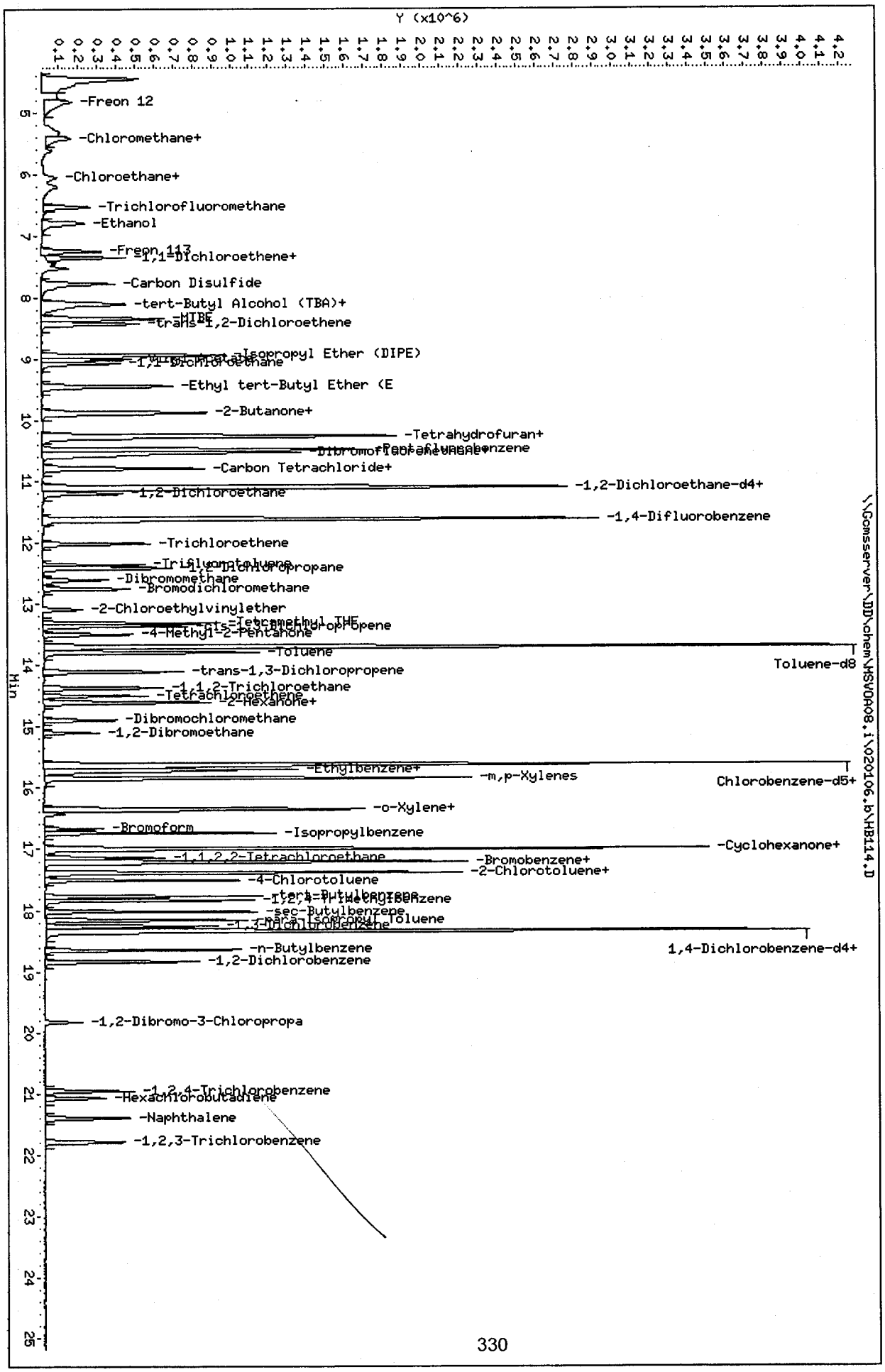
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.258	18.258	(0.996)	372191	20.0000	20.7545
* 78 1,4-Dichlorobenzene-d4	152	18.337	18.337	(1.000)	1093973	50.0000	
79 1,4-Dichlorobenzene	146	18.366	18.366	(1.002)	382797	20.0000	20.5355
80 n-Butylbenzene	91	18.642	18.642	(1.017)	719751	20.0000	20.2111
81 1,2-Dichlorobenzene	146	18.839	18.838	(1.027)	355931	20.0000	20.6637
82 1,2-Dibromo-3-Chloropropane	75	19.832	19.832	(1.082)	70163	20.0000	20.1436
83 1,2,4-Trichlorobenzene	180	20.963	20.963	(1.143)	181185	20.0000	21.0675
84 Hexachlorobutadiene	225	21.071	21.081	(1.149)	65458	20.0000	19.9946
85 Naphthalene	128	21.406	21.406	(1.167)	498087	20.0000	20.9256
86 1,2,3-Trichlorobenzene	180	21.799	21.799	(1.189)	177834	20.0000	21.2433

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\HSVOA08.i\020106.b\HB114.D
Date : 01-FEB-2006 18:24
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.004/100,S2552,0.004/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: HSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB115.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB115.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 19:01 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.01/100,S2552,0.01/100,
Misc Info : S2028,0.005/100,50 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 19:01 Cal File: HB115.D
Als bottle: 15 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.823	4.823	(0.460)	930523	50.0000	52.4696
2 Chloromethane	50	5.325	5.324	(0.508)	1175821	50.0000	46.6114
3 Vinyl Chloride	62	5.413	5.413	(0.517)	980764	50.0000	52.8628
4 Bromomethane	94	6.043	6.042	(0.577)	441750	50.0000	50.5342
5 Chloroethane	64	6.190	6.190	(0.591)	546119	50.0000	49.9047
6 Trichlorofluoromethane	101	6.535	6.534	(0.624)	739563	50.0000	54.7278
7 Ethanol	45	6.790	6.790	(0.648)	1539156	5000.00	5213.1913(A)
8 Freon 113	101	7.243	7.252	(0.691)	632279	50.0000	51.5437
9 1,1-Dichloroethene	96	7.351	7.360	(0.702)	576376	50.0000	57.1565
10 Acetone	43	7.449	7.449	(0.711)	450956	50.0000	53.2895
11 Isopropanol	45	7.518	7.527	(0.717)	758858	500.000	507.4394(A)
12 Carbon Disulfide	76	7.774	7.773	(0.742)	2780929	50.0000	55.2478
13 tert-Butyl Alcohol (TBA)	59	8.079	8.077	(0.771)	837835	500.000	496.7445(A)
14 Methylene Chloride	84	8.108	8.108	(0.774)	759445	50.0000	46.5594
15 MTBE	73	8.335	8.334	(0.795)	2039223	50.0000	50.1145
16 trans-1,2-Dichloroethene	96	8.423	8.422	(0.804)	661330	50.0000	51.9709
17 Isopropyl Ether (DIPE)	45	8.935	8.934	(0.853)	3499392	50.0000	49.9200(A)
18 Vinyl Acetate	43	9.003	9.003	(0.859)	2261476	50.0000	49.1524
19 1,1-Dichloroethane	63	9.062	9.072	(0.865)	1438888	50.0000	51.3391
20 Ethyl tert-Butyl Ether (ETBE)	59	9.436	9.445	(0.901)	2275451	50.0000	49.9054(A)
21 2-Butanone	43	9.849	9.849	(0.940)	643547	50.0000	50.2144
22 2,2-Dichloropropane	77	9.869	9.868	(0.942)	890150	50.0000	54.2845

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB115.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.889	9.888	(0.944)	713135	50.0000	50.9994
	24 Tetrahydrofuran	42	10.243	10.252	(0.977)	3278732	500.000	482.6789(A)
	25 Bromochloromethane	128	10.253	10.262	(0.978)	328166	50.0000	51.6033
	26 Chloroform	83	10.282	10.281	(0.981)	1172293	50.0000	50.4126
*	27 Pentafluorobenzene	168	10.479	10.478	(1.000)	1400499	50.0000	
$	28 Dibromofluoromethane	113	10.528	10.527	(1.005)	1064198	50.0000	48.9130
	29 1,1,1-Trichloroethane	97	10.577	10.576	(1.009)	808443	50.0000	55.2293
	30 Carbon Tetrachloride	117	10.774	10.773	(0.928)	651188	50.0000	51.5380
	31 1,1-Dichloropropene	75	10.794	10.793	(0.930)	965766	50.0000	52.2504
$	32 1,2-Dichloroethane-d4	65	11.089	11.088	(0.955)	1423605	50.0000	47.6134
	33 Benzene	78	11.108	11.108	(0.957)	2499318	50.0000	50.7535
	34 Methyl tert-Amyl Ether (TAME)	73	11.108	11.108	(0.957)	2075934	50.0000	49.6800(A)
	35 1,2-Dichloroethane	62	11.197	11.206	(0.964)	1021991	50.0000	50.0131
*	36 1,4-Difluorobenzene	114	11.610	11.609	(1.000)	2944215	50.0000	
	37 Trichloroethene	95	12.013	12.012	(1.035)	659004	50.0000	55.2611
$	38 Trifluorotoluene	146	12.357	12.367	(1.064)	700214	50.0000	53.2214(A)
	39 1,2-Dichloropropane	63	12.416	12.416	(1.069)	859352	50.0000	50.9438
	40 Dibromomethane	93	12.603	12.603	(1.086)	474736	50.0000	50.7644
	41 Bromodichloromethane	83	12.751	12.750	(1.098)	903105	50.0000	50.4723
	42 2-Chloroethylvinylether	63	13.085	13.085	(1.127)	284057	50.0000	51.8316
	43 Tetramethyl THF	43	13.311	13.311	(1.147)	2049600	50.0000	49.2226(A)
	44 cis-1,3-Dichloropropene	75	13.361	13.360	(1.151)	1163617	50.0000	50.1970
	45 4-Methyl-2-Pentanone	43	13.489	13.498	(1.162)	1204172	50.0000	49.4092
$	46 Toluene-d8	98	13.695	13.694	(1.180)	3305867	50.0000	49.8975
	47 Toluene	92	13.784	13.783	(1.187)	1434889	50.0000	54.1980
	48 trans-1,3-Dichloropropene	75	14.108	14.107	(1.215)	1091556	50.0000	51.2087
	49 1,1,2-Trichloroethane	85	14.364	14.373	(1.237)	359269	50.0000	50.8572
	50 Tetrachloroethene	166	14.502	14.501	(0.929)	478205	50.0000	52.9461
	51 2-Hexanone	43	14.590	14.589	(0.934)	890139	50.0000	52.8961
	52 1,3-Dichloropropane	76	14.610	14.619	(0.936)	1172514	50.0000	51.2085
	53 Dibromochloromethane	129	14.895	14.894	(0.954)	578799	50.0000	52.7071
	54 1,2-Dibromoethane	107	15.092	15.101	(1.300)	641776	50.0000	51.4770
*	55 Chlorobenzene-d5	117	15.613	15.612	(1.000)	2503542	50.0000	
	56 Chlorobenzene	112	15.652	15.652	(1.003)	1434281	50.0000	52.2481
	57 Ethylbenzene	91	15.702	15.701	(1.006)	2557589	50.0000	55.1381
	58 1,1,1,2-Tetrachloroethane	131	15.731	15.730	(1.008)	501249	50.0000	54.3221
	59 m,p-Xylenes	106	15.839	15.839	(1.014)	1835678	100.000	114.1138
	60 o-Xylene	106	16.341	16.340	(1.047)	900267	50.0000	55.8726
	61 Styrene	104	16.361	16.360	(1.048)	1590205	50.0000	54.5477
	62 Bromoform	173	16.665	16.665	(1.067)	376526	50.0000	51.8693
	63 Isopropylbenzene	105	16.734	16.734	(0.913)	2244024	50.0000	56.7747
	64 Cyclohexanone	55	16.980	16.980	(0.926)	1537428	500.000	550.1016(A)
$	65 Bromofluorobenzene	95	17.000	16.998	(0.927)	1419289	50.0000	48.9949
	66 1,1,2,2-Tetrachloroethane	83	17.138	17.137	(0.935)	952550	50.0000	49.6568
	67 Bromobenzene	156	17.206	17.206	(0.938)	523550	50.0000	52.6969
	68 Propylbenzene	91	17.206	17.206	(0.938)	2861439	50.0000	55.7803
	69 1,2,3-Trichloropropane	110	17.236	17.235	(0.940)	224342	50.0000	51.4338
	70 2-Chlorotoluene	91	17.383	17.383	(0.948)	1897470	50.0000	51.9216
	71 1,3,5-Trimethylbenzene	105	17.383	17.383	(0.948)	1800848	50.0000	56.4443
	72 4-Chlorotoluene	91	17.511	17.511	(0.955)	1806715	50.0000	51.9271
	73 tert-Butylbenzene	119	17.767	17.766	(0.969)	1468737	50.0000	51.5595
	74 1,2,4-Trimethylbenzene	105	17.836	17.835	(0.973)	1770801	50.0000	53.4133
	75 sec-Butylbenzene	105	18.023	18.022	(0.983)	2479542	50.0000	51.9800
	76 para-Isopropyl Toluene	119	18.160	18.160	(0.990)	1815332	50.0000	52.2167

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB115.D
Report Date: 02-Feb-2006 10:44

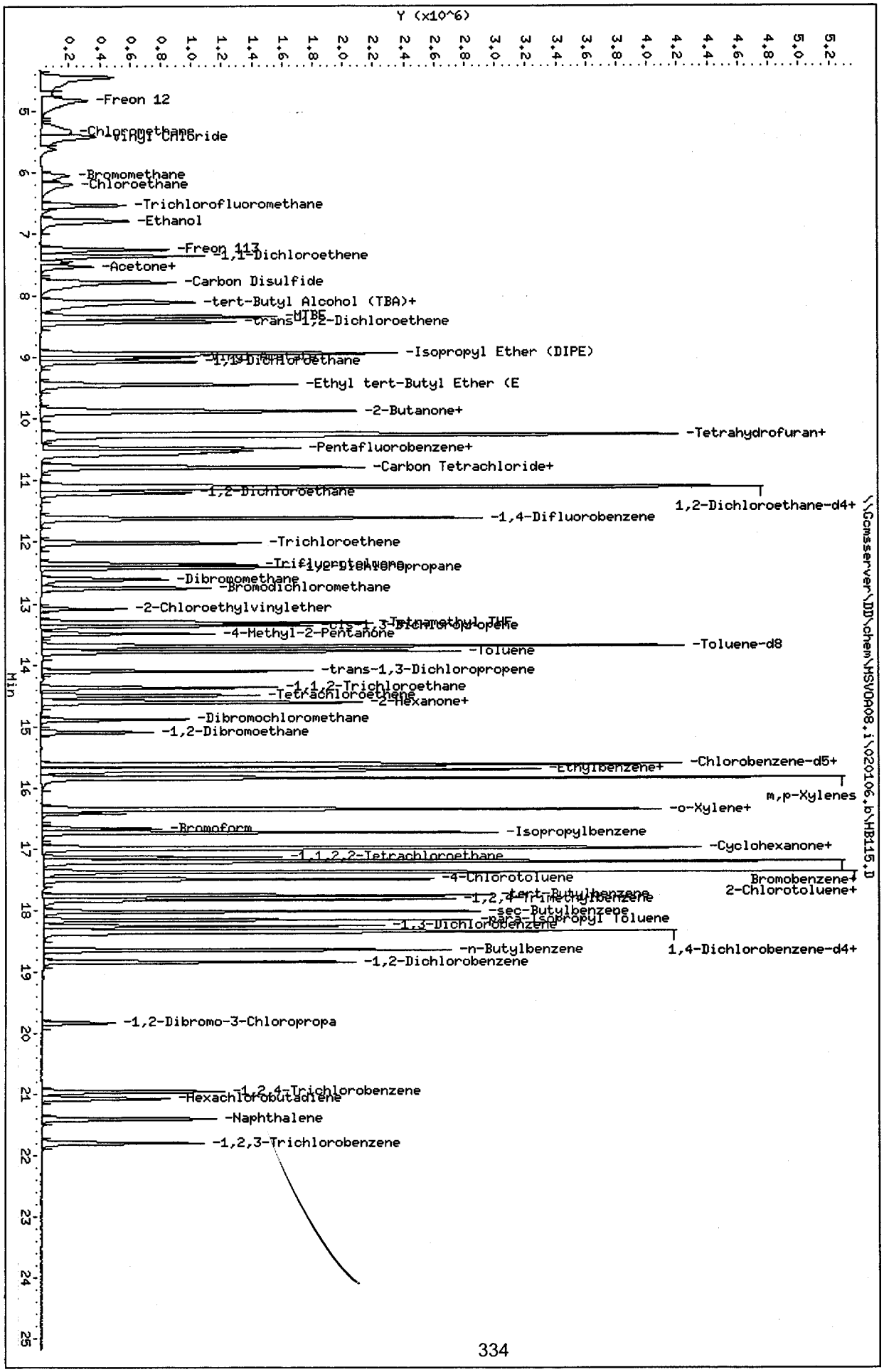
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.259	18.258	(0.996)	953114	50.0000	52.3211
* 78 1,4-Dichlorobenzene-d4	152	18.338	18.337	(1.000)	1111278	50.0000	
79 1,4-Dichlorobenzene	146	18.367	18.366	(1.002)	988301	50.0000	52.1928
80 n-Butylbenzene	91	18.642	18.642	(1.017)	1886532	50.0000	51.8217
81 1,2-Dichlorobenzene	146	18.839	18.838	(1.027)	914453	50.0000	52.2622
82 1,2-Dibromo-3-Chloropropane	75	19.833	19.832	(1.082)	172714	50.0000	48.8137
83 1,2,4-Trichlorobenzene	180	20.964	20.963	(1.143)	475177	50.0000	54.3914
84 Hexachlorobutadiene	225	21.072	21.081	(1.149)	181360	50.0000	54.1542
85 Naphthalene	128	21.406	21.406	(1.167)	1296655	50.0000	53.6269
86 1,2,3-Trichlorobenzene	180	21.800	21.799	(1.189)	453418	50.0000	53.3200

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Ccmsserver\DD\chem\MSVOA08.i\020106.b\HB115.D
Date : 01-FEB-2006 19:01
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.01/100,S2552,0.01/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB116.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB116.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 19:39 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.015/100,S2552,0.015/100,
Misc Info : S2028,0.0075/100,75 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 19:39 Cal File: HB116.D
Als bottle: 16 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.828	4.823	(0.461)	1400535	75.0000	72.8279
2 Chloromethane	50	5.320	5.324	(0.507)	1696018	75.0000	61.9533
3 Vinyl Chloride	62	5.418	5.413	(0.517)	1450595	75.0000	72.0469
4 Bromomethane	94	6.047	6.042	(0.577)	735794	75.0000	74.8099
5 Chloroethane	64	6.185	6.190	(0.590)	795573	75.0000	66.9912
6 Trichlorofluoromethane	101	6.539	6.534	(0.624)	1134715	75.0000	77.3755
7 Ethanol	45	6.795	6.790	(0.648)	2241621	7500.00	6996.2725(A)
8 Freon 113	101	7.247	7.252	(0.691)	987506	75.0000	73.8389
9 1,1-Dichloroethene	96	7.356	7.360	(0.702)	884379	75.0000	80.8131
10 Acetone	43	7.454	7.449	(0.711)	644726	75.0000	70.2048
11 Isopropanol	45	7.523	7.527	(0.718)	1113298	750.000	685.9914(A)
12 Carbon Disulfide	76	7.779	7.773	(0.742)	4197601	75.0000	76.8440
13 tert-Butyl Alcohol (TBA)	59	8.074	8.077	(0.770)	1246291	750.000	680.8909(A)
14 Methylene Chloride	84	8.103	8.108	(0.773)	1151613	75.0000	65.0580
15 MTBE	73	8.339	8.334	(0.795)	3039519	75.0000	68.8315
16 trans-1,2-Dichloroethene	96	8.418	8.422	(0.803)	1041797	75.0000	75.4412
17 Isopropyl Ether (DIPE)	45	8.939	8.934	(0.853)	5059444	75.0000	66.5071(A)
18 Vinyl Acetate	43	9.008	9.003	(0.859)	3326798	75.0000	66.6289
19 1,1-Dichloroethane	63	9.067	9.072	(0.865)	2174728	75.0000	71.5006
20 Ethyl tert-Butyl Ether (ETBE)	59	9.441	9.445	(0.901)	3402434	75.0000	68.7628(A)
21 2-Butanone	43	9.844	9.849	(0.939)	952040	75.0000	68.4522
22 2,2-Dichloropropane	77	9.864	9.868	(0.941)	1329758	75.0000	74.7255

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB116.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.883	9.888	(0.943)	1109240	75.0000	73.0975
	24 Tetrahydrofuran	42	10.247	10.252	(0.977)	4579364	750.000	621.2138(A)
	25 Bromochloromethane	128	10.257	10.262	(0.978)	504685	75.0000	73.1287
	26 Chloroform	83	10.287	10.281	(0.981)	1765409	75.0000	69.9572
*	27 Pentafluorobenzene	168	10.483	10.478	(1.000)	1519845	50.0000	
$	28 Dibromofluoromethane	113	10.533	10.527	(1.005)	1139431	50.0000	48.2584
	29 1,1,1-Trichloroethane	97	10.572	10.576	(1.008)	1264688	75.0000	79.6135
	30 Carbon Tetrachloride	117	10.778	10.773	(0.928)	1004406	75.0000	73.9139
	31 1,1-Dichloropropene	75	10.788	10.793	(0.929)	1454989	75.0000	73.3085
$	32 1,2-Dichloroethane-d4	65	11.083	11.088	(0.954)	1470530	50.0000	45.8343
	33 Benzene	78	11.113	11.108	(0.957)	3844036	75.0000	72.7460
	34 Methyl tert-Amyl Ether (TAME)	73	11.103	11.108	(0.956)	3158348	75.0000	70.4377(A)
	35 1,2-Dichloroethane	62	11.201	11.206	(0.964)	1508905	75.0000	68.8139
*	36 1,4-Difluorobenzene	114	11.615	11.609	(1.000)	3159310	50.0000	
	37 Trichloroethene	95	12.008	12.012	(1.034)	1034412	75.0000	80.8356
$	38 Trifluorotoluene	146	12.362	12.367	(1.064)	1119754	75.0000	79.2261(A)
	39 1,2-Dichloropropane	63	12.411	12.416	(1.069)	1293477	75.0000	71.4590
	40 Dibromomethane	93	12.598	12.603	(1.085)	719256	75.0000	71.6750
	41 Bromodichloromethane	83	12.746	12.750	(1.097)	1367057	75.0000	71.1998
	42 2-Chloroethylvinylether	63	13.080	13.085	(1.126)	457977	75.0000	72.8472
	43 Tetramethyl THF	43	13.306	13.311	(1.146)	3014937	75.0000	67.4763(A)
	44 cis-1,3-Dichloropropene	75	13.365	13.360	(1.151)	1798807	75.0000	72.3153
	45 4-Methyl-2-Pentanone	43	13.493	13.498	(1.162)	1855196	75.0000	70.9392
$	46 Toluene-d8	98	13.690	13.694	(1.179)	3531505	50.0000	49.6742
	47 Toluene	92	13.788	13.783	(1.187)	2194158	75.0000	77.2343
	48 trans-1,3-Dichloropropene	75	14.103	14.107	(1.214)	1622425	75.0000	70.9316
	49 1,1,2-Trichloroethane	85	14.369	14.373	(1.237)	546467	75.0000	72.0898
	50 Tetrachloroethene	166	14.496	14.501	(0.928)	769850	75.0000	78.3924
	51 2-Hexanone	43	14.585	14.589	(0.934)	1302146	75.0000	71.3410
	52 1,3-Dichloropropane	76	14.614	14.619	(0.936)	1783997	75.0000	71.8343
	53 Dibromochloromethane	129	14.890	14.894	(0.953)	907798	75.0000	76.2157
	54 1,2-Dibromoethane	107	15.096	15.101	(1.300)	1013080	75.0000	75.7270
*	55 Chlorobenzene-d5	117	15.618	15.612	(1.000)	2715447	50.0000	
	56 Chlorobenzene	112	15.657	15.652	(1.003)	2235537	75.0000	75.0813
	57 Ethylbenzene	91	15.706	15.701	(1.006)	3794281	75.0000	75.4161
	58 1,1,1,2-Tetrachloroethane	131	15.736	15.730	(1.008)	772359	75.0000	77.1713
	59 m,p-Xylenes	106	15.844	15.839	(1.014)	2712176	150.000	155.4437
	60 o-Xylene	106	16.336	16.340	(1.046)	1361238	75.0000	77.8889
	61 Styrene	104	16.365	16.360	(1.048)	2393581	75.0000	75.6982
	62 Bromoform	173	16.660	16.665	(1.067)	585748	75.0000	74.3944
	63 Isopropylbenzene	105	16.729	16.734	(0.913)	3366424	75.0000	80.2459
	64 Cyclohexanone	55	16.975	16.980	(0.926)	2162872	750.000	729.1311(A)
$	65 Bromofluorobenzene	95	16.995	16.998	(0.927)	1465051	50.0000	47.6496
	66 1,1,2,2-Tetrachloroethane	83	17.132	17.137	(0.935)	1449341	75.0000	71.1850
	67 Bromobenzene	156	17.211	17.206	(0.939)	805064	75.0000	76.3456
	68 Propylbenzene	91	17.201	17.206	(0.938)	4185658	75.0000	76.8754
	69 1,2,3-Trichloropropane	110	17.231	17.235	(0.940)	340834	75.0000	73.6219
	70 2-Chlorotoluene	91	17.378	17.383	(0.948)	2708826	75.0000	69.8363
	71 1,3,5-Trimethylbenzene	105	17.388	17.383	(0.948)	2583990	75.0000	76.3064
	72 4-Chlorotoluene	91	17.506	17.511	(0.955)	2698191	75.0000	73.0641
	73 tert-Butylbenzene	119	17.772	17.766	(0.969)	2242786	75.0000	73.9811
	74 1,2,4-Trimethylbenzene	105	17.831	17.835	(0.973)	2689552	75.0000	76.4340
	75 sec-Butylbenzene	105	18.018	18.022	(0.983)	3728522	75.0000	73.5057
	76 para-Isopropyl Toluene	119	18.165	18.160	(0.991)	2714389	75.0000	73.4160

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB116.D
Report Date: 02-Feb-2006 10:44

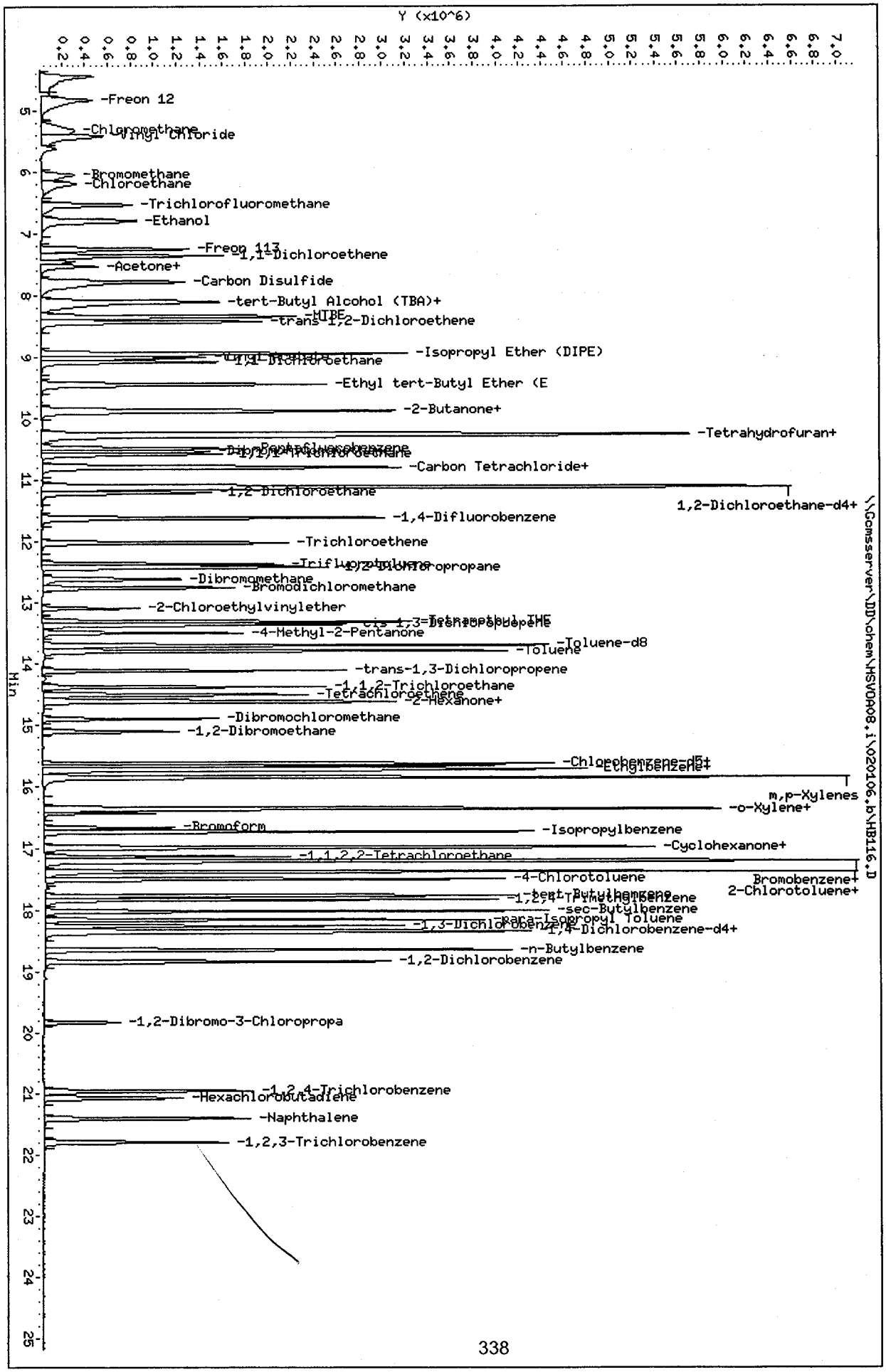
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.263	18.258	(0.996)	1483916	75.0000	76.7481
* 78 1,4-Dichlorobenzene-d4	152	18.332	18.337	(1.000)	1179495	50.0000	
79 1,4-Dichlorobenzene	146	18.362	18.366	(1.002)	1551083	75.0000	77.1761
80 n-Butylbenzene	91	18.647	18.642	(1.017)	2847787	75.0000	73.6147
81 1,2-Dichlorobenzene	146	18.834	18.838	(1.027)	1419114	75.0000	76.4136
82 1,2-Dibromo-3-Chloropropane	75	19.827	19.832	(1.082)	254496	75.0000	67.7675
83 1,2,4-Trichlorobenzene	180	20.958	20.963	(1.143)	748794	75.0000	80.7539
84 Hexachlorobutadiene	225	21.076	21.081	(1.150)	283764	75.0000	79.7270
85 Naphthalene	128	21.401	21.406	(1.167)	2016599	75.0000	78.5786
86 1,2,3-Trichlorobenzene	180	21.794	21.799	(1.189)	716069	75.0000	79.3365

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Comsserver\DD\chem\MSVOA08.i\020106.b\HB116.D
Date : 01-FEB-2006 19:39
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.015/100,S2552,0.015/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA08.i
Operator: LM
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB117.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB117.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 20:16 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.02/100,S2552,0.02/100,
Misc Info : S2028,0.01/100,100 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 20:16 Cal File: HB117.D
Als bottle: 17 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.822	4.823	(0.460)	1776530	100.000	93.3652
2 Chloromethane	50	5.324	5.324	(0.508)	2132188	100.000	78.6820
3 Vinyl Chloride	62	5.412	5.413	(0.517)	1834927	100.000	92.0670
4 Bromomethane	94	6.042	6.042	(0.577)	968540	100.000	96.3000
5 Chloroethane	64	6.189	6.190	(0.591)	1004241	100.000	85.4263
6 Trichlorofluoromethane	101	6.533	6.534	(0.624)	1422621	100.000	97.9990
7 Ethanol	45	6.789	6.790	(0.648)	3055950	10000.0	9635.3289(A)
8 Freon 113	101	7.251	7.252	(0.692)	1108421	100.000	83.6229
9 1,1-Dichloroethene	96	7.360	7.360	(0.702)	1075675	100.000	99.2980
10 Acetone	43	7.448	7.449	(0.711)	869729	100.000	95.6734
11 Isopropanol	45	7.527	7.527	(0.718)	1537242	1000.00	956.8971(A)
12 Carbon Disulfide	76	7.773	7.773	(0.742)	5125387	100.000	94.7875
13 tert-Butyl Alcohol (TBA)	59	8.078	8.077	(0.771)	1706326	1000.00	941.7505(A)
14 Methylene Chloride	84	8.107	8.108	(0.774)	1518439	100.000	86.6578
15 MTBE	73	8.333	8.334	(0.795)	3966773	100.000	90.7477
16 trans-1,2-Dichloroethene	96	8.422	8.422	(0.804)	1307904	100.000	95.6792
17 Isopropyl Ether (DIPE)	45	8.933	8.934	(0.853)	6339864	100.000	84.1901(A)
18 Vinyl Acetate	43	9.002	9.003	(0.859)	3833128	100.000	77.5542
19 1,1-Dichloroethane	63	9.071	9.072	(0.866)	2674419	100.000	88.8280
20 Ethyl tert-Butyl Ether (ETBE)	59	9.445	9.445	(0.901)	4264998	100.000	87.0760(A)
21 2-Butanone	43	9.848	9.849	(0.940)	1237107	100.000	89.8577
22 2,2-Dichloropropane	77	9.868	9.868	(0.942)	1516752	100.000	86.1047

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB117.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.887	9.888	(0.944)	1417937	100.000	94.3951
	24 Tetrahydrofuran	42	10.251	10.252	(0.978)	5687343	1000.00	779.4013(A)
	25 Bromochloromethane	128	10.261	10.262	(0.979)	660911	100.000	96.7444
	26 Chloroform	83	10.281	10.281	(0.981)	2200936	100.000	88.1069
*	27 Pentafluorobenzene	168	10.478	10.478	(1.000)	1504470	50.0000	
$	28 Dibromofluoromethane	113	10.527	10.527	(1.005)	1119896	50.0000	47.9158
	29 1,1,1-Trichloroethane	97	10.576	10.576	(1.009)	1500750	100.000	95.4394
	30 Carbon Tetrachloride	117	10.773	10.773	(0.928)	1153194	100.000	86.8638
	31 1,1-Dichloropropene	75	10.792	10.793	(0.930)	1681016	100.000	86.7376
$	32 1,2-Dichloroethane-d4	65	11.087	11.088	(0.955)	1355257	50.0000	43.2708
	33 Benzene	78	11.107	11.108	(0.957)	4600256	100.000	89.1784
	34 Methyl tert-Amyl Ether (TAME)	73	11.107	11.108	(0.957)	3887743	100.000	88.8176(A)
	35 1,2-Dichloroethane	62	11.205	11.206	(0.965)	1905532	100.000	89.0197
*	36 1,4-Difluorobenzene	114	11.609	11.609	(1.000)	3084156	50.0000	
	37 Trichloroethene	95	12.012	12.012	(1.035)	1279140	100.000	102.3960
$	38 Trifluorotoluene	146	12.366	12.367	(1.065)	1307917	100.000	94.7586(A)
	39 1,2-Dichloropropane	63	12.415	12.416	(1.069)	1655848	100.000	93.7075
	40 Dibromomethane	93	12.602	12.603	(1.086)	954795	100.000	97.4654
	41 Bromodichloromethane	83	12.750	12.750	(1.098)	1803115	100.000	96.1992
	42 2-Chloroethylvinylether	63	13.084	13.085	(1.127)	689380	100.000	100.5472
	43 Tetramethyl THF	43	13.310	13.311	(1.147)	3819284	100.000	87.5611(A)
	44 cis-1,3-Dichloropropene	75	13.359	13.360	(1.151)	2306116	100.000	94.9692
	45 4-Methyl-2-Pentanone	43	13.497	13.498	(1.163)	2435972	100.000	95.4168
$	46 Toluene-d8	98	13.694	13.694	(1.180)	3416483	50.0000	49.2273
	47 Toluene	92	13.782	13.783	(1.187)	2718172	100.000	98.0111
	48 trans-1,3-Dichloropropene	75	14.107	14.107	(1.215)	2104101	100.000	94.2318
	49 1,1,2-Trichloroethane	85	14.373	14.373	(1.238)	710438	100.000	96.0046
	50 Tetrachloroethene	166	14.500	14.501	(0.929)	924385	100.000	95.8411
	51 2-Hexanone	43	14.589	14.589	(0.934)	1740655	100.000	97.1910
	52 1,3-Dichloropropane	76	14.618	14.619	(0.936)	2265471	100.000	92.9673
	53 Dibromochloromethane	129	14.894	14.894	(0.954)	1198396	100.000	102.5391
	54 1,2-Dibromoethane	107	15.100	15.101	(1.301)	1310382	100.000	100.3369
*	55 Chlorobenzene-d5	117	15.612	15.612	(1.000)	2664450	50.0000	
	56 Chlorobenzene	112	15.651	15.652	(1.003)	2818310	100.000	96.4656
	57 Ethylbenzene	91	15.700	15.701	(1.006)	4586806	100.000	92.9135
	58 1,1,1,2-Tetrachloroethane	131	15.730	15.730	(1.008)	1009760	100.000	102.8225
	59 m,p-Xylenes	106	15.838	15.839	(1.014)	3321356	200.000	194.0012
	60 o-Xylene	106	16.340	16.340	(1.047)	1691413	100.000	98.6336
	61 Styrene	104	16.359	16.360	(1.048)	3009471	100.000	96.9977
	62 Bromoform	173	16.664	16.665	(1.067)	788196	100.000	102.0228
	63 Isopropylbenzene	105	16.733	16.734	(0.913)	3996927	100.000	95.2507
	64 Cyclohexanone	55	16.979	16.980	(0.926)	2877926	1000.00	969.9339(A)
$	65 Bromofluorobenzene	95	16.999	16.998	(0.927)	1425849	50.0000	46.3626
	66 1,1,2,2-Tetrachloroethane	83	17.136	17.137	(0.935)	1873714	100.000	92.0045
	67 Bromobenzene	156	17.205	17.206	(0.938)	1043589	100.000	98.9398
	68 Propylbenzene	91	17.205	17.206	(0.938)	4830224	100.000	88.6908
	69 1,2,3-Trichloropropane	110	17.235	17.235	(0.940)	449564	100.000	97.0831
	70 2-Chlorotoluene	91	17.382	17.383	(0.948)	3301948	100.000	85.1056
	71 1,3,5-Trimethylbenzene	105	17.382	17.383	(0.948)	3133557	100.000	92.5114
	72 4-Chlorotoluene	91	17.510	17.511	(0.955)	3346354	100.000	90.5922
	73 tert-Butylbenzene	119	17.766	17.766	(0.969)	2651945	100.000	87.3731
	74 1,2,4-Trimethylbenzene	105	17.835	17.835	(0.973)	3332495	100.000	94.6812
	75 sec-Butylbenzene	105	18.022	18.022	(0.983)	4263217	100.000	83.9783
	76 para-Isopropyl Toluene	119	18.159	18.160	(0.990)	3273595	100.000	88.4445

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB117.D
Report Date: 02-Feb-2006 10:44

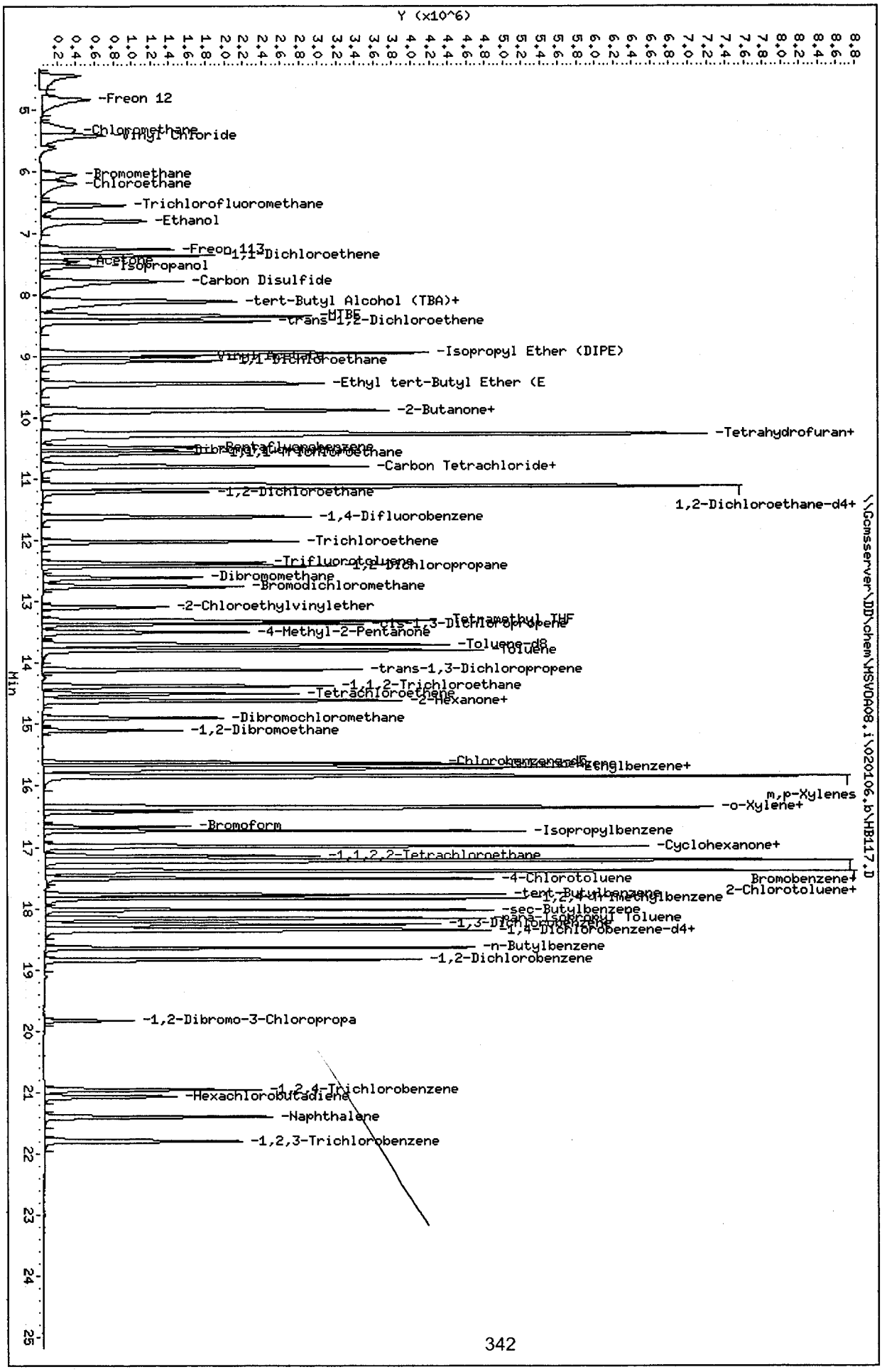
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.258	18.258	(0.996)	1929052	100.000	99.7448
* 78 1,4-Dichlorobenzene-d4	152	18.336	18.337	(1.000)	1179800	50.0000	
79 1,4-Dichlorobenzene	146	18.366	18.366	(1.002)	2006074	100.000	99.7890
80 n-Butylbenzene	91	18.641	18.642	(1.017)	3358910	100.000	86.7675
81 1,2-Dichlorobenzene	146	18.838	18.838	(1.027)	1867970	100.000	100.5567
82 1,2-Dibromo-3-Chloropropane	75	19.831	19.832	(1.082)	342563	100.000	91.1946
83 1,2,4-Trichlorobenzene	180	20.962	20.963	(1.143)	975697	100.000	105.1971
84 Hexachlorobutadiene	225	21.081	21.081	(1.150)	333494	100.000	93.6364
85 Naphthalene	128	21.405	21.406	(1.167)	2825061	100.000	110.0526
86 1,2,3-Trichlorobenzene	180	21.799	21.799	(1.189)	971703	100.000	107.6315

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Gcmsserver\DD\chem\HSVOA08.i\020106.b\HB117.D
Date : 01-FEB-2006 20:16
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0,02/100,S2552,0,02/100,
Purpose Volume: 5.0
Column phase: RTX 624

Instrument: HSVOA08.i
Operator: LW
Column diameter: 0.25



CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA08
Seqnum : 476046588018 File : hb118
Cal : 476046588001 Caldate: 01-FEB-2006

IDF : 1.0
Time : 01-FEB-2006 20:53
Caltype: WATER

Standards: S2606 (10000X), S2284 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	0.5796	0.3807	25.00	14.93	ug/L	-40	30	v- ***
Chloromethane	0.9006	0.6647	25.00	18.45	ug/L	-26	30	!v- m
Vinyl Chloride	0.6624	0.5351	25.00	20.20	ug/L	-19	20	
Bromomethane	0.2589	0.2475	25.00	21.00	ug/L	-16	30	m
Chloroethane	0.3907	0.3123	25.00	19.98	ug/L	-20	30	
Trichlorofluoromethane	0.4825	0.4626	25.00	23.97	ug/L	-4	30	

ISTD (ICAL hb115)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1400499	1472319	5.13	10.48	10.47	-0.01
1,4-Difluorobenzene	2944215	3002868	1.99	11.61	11.62	0.01
1,4-Dichlorobenzene-d4	1111278	1106838	-0.40	18.34	18.33	-0.01

LW 2-2-06

2/2/2006

!=warning -=low bias m=manual integration v=ICV

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA08 IDF : 1.0
Seqnum : 476046588019 File : hb119 Time : 01-FEB-2006 21:30
Cal : 476046588001 Caldate: 01-FEB-2006 Caltype: WATER

Standards: S2436 (10000X), S2616 (10000X), S2284 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Acetone	0.3021	0.2439	25.00	20.19	ug/L	-19	40	
Freon 113	0.3302	0.4138	25.00	24.04	ug/L	-4	30	
1,1-Dichloroethene	0.3600	0.4229	25.00	29.37	ug/L	17	20	
Methylene Chloride	0.5823	0.5485	25.00	23.55	ug/L	-6	30	
Carbon Disulfide	1.7971	1.5780	25.00	21.95	ug/L	-12	30	
MTBE	1.4527	1.3715	25.00	23.60	ug/L	-6	30	
trans-1,2-Dichloroethene	0.4543	0.4708	25.00	25.91	ug/L	4	30	
Vinyl Acetate	1.6426	1.4765	25.00	22.47	ug/L	-10	40	
1,1-Dichloroethane	1.0006	0.9818	25.00	24.53	ug/L	-2	30	
2-Butanone	0.4575	0.4093	25.00	22.37	ug/L	-11	40	
2,2-Dichloropropane	0.5854	0.5717	25.00	24.41	ug/L	-2	30	
cis-1,2-Dichloroethene	0.4992	0.5262	25.00	26.35	ug/L	5	30	
Chloroform	0.8302	0.8279	25.00	24.93	ug/L	0	20	
Bromochloromethane	0.2270	0.2306	25.00	25.39	ug/L	2	30	
1,1,1-Trichloroethane	0.5226	0.5808	25.00	27.79	ug/L	11	30	
1,1-Dichloropropene	0.2840	0.3294	25.00	26.30	ug/L	5	30	
Carbon Tetrachloride	0.1859	0.2247	25.00	26.37	ug/L	5	30	
1,2-Dichloroethane	0.3470	0.3495	25.00	25.18	ug/L	1	30	
Benzene	0.8363	0.8862	25.00	26.49	ug/L	6	30	
Trichloroethene	0.2025	0.2341	25.00	28.90	ug/L	16	30	
1,2-Dichloropropane	0.2865	0.2883	25.00	25.16	ug/L	1	20	
Bromodichloromethane	0.3039	0.3299	25.00	27.14	ug/L	9	30	
Dibromomethane	0.1588	0.1636	25.00	25.76	ug/L	3	30	
2-Chloroethylvinylether	0.0733	0.0801	25.00	23.61	ug/L	-6	40	
4-Methyl-2-Pentanone	0.4139	0.4111	25.00	24.83	ug/L	-1	40	
Tetramethyl THF	0.7071	0.7380	25.00	26.09	ug/L	4	30	
cis-1,3-Dichloropropene	0.3937	0.4157	25.00	26.40	ug/L	6	30	
Toluene	0.4496	0.5011	25.00	27.86	ug/L	11	20	
trans-1,3-Dichloropropene	0.3620	0.3582	25.00	24.74	ug/L	-1	30	
1,1,2-Trichloroethane	0.1200	0.1261	25.00	26.28	ug/L	5	30	
2-Hexanone	0.3361	0.3374	25.00	25.10	ug/L	0	40	
1,3-Dichloropropane	0.4573	0.4794	25.00	26.21	ug/L	5	30	
Tetrachloroethene	0.1551	0.1968	25.00	27.46	ug/L	10	30	
Dibromochloromethane	0.2193	0.2504	25.00	28.54	ug/L	14	30	
1,2-Dibromoethane	0.2117	0.2272	25.00	26.83	ug/L	7	30	
Chlorobenzene	0.5482	0.5981	25.00	27.27	ug/L	9	30	
1,1,1,2-Tetrachloroethane	0.1843	0.2040	25.00	27.67	ug/L	11	30	
Ethylbenzene	0.9264	1.0588	25.00	28.57	ug/L	14	20	
m,p-Xylenes	0.3213	0.3750	50.00	58.37	ug/L	17	30	
o-Xylene	0.3218	0.3715	25.00	28.86	ug/L	15	30	
Styrene	0.5822	0.6524	25.00	28.01	ug/L	12	30	
Bromoform	0.1450	0.1491	25.00	25.71	ug/L	3	30	
Isopropylbenzene	1.7784	1.9807	25.00	27.85	ug/L	11	30	
1,1,2,2-Tetrachloroethane	0.8631	0.9152	25.00	26.51	ug/L	6	30	
1,2,3-Trichloropropane	0.1962	0.2109	25.00	26.87	ug/L	7	30	
Propylbenzene	2.3081	2.7665	25.00	29.97	ug/L	20	30	
Bromobenzene	0.4470	0.4818	25.00	26.95	ug/L	8	30	
1,3,5-Trimethylbenzene	1.4355	1.6701	25.00	29.09	ug/L	16	30	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
2-Chlorotoluene	1.6443	1.8247	25.00	27.74	ug/L	11	30	
4-Chlorotoluene	1.5655	1.6941	25.00	27.05	ug/L	8	30	
tert-Butylbenzene	1.1200	1.3880	25.00	27.29	ug/L	9	30	
1,2,4-Trimethylbenzene	1.4917	1.6761	25.00	28.09	ug/L	12	30	
sec-Butylbenzene	1.8394	2.3791	25.00	27.87	ug/L	11	30	
para-Isopropyl Toluene	1.3712	1.6227	25.00	26.11	ug/L	4	30	
1,3-Dichlorobenzene	0.8196	0.9071	25.00	27.67	ug/L	11	30	
1,4-Dichlorobenzene	0.8520	0.9389	25.00	27.55	ug/L	10	30	
n-Butylbenzene	1.4409	1.7490	25.00	26.80	ug/L	7	30	
1,2-Dichlorobenzene	0.7873	0.8708	25.00	27.65	ug/L	11	30	
1,2-Dibromo-3-Chloropropane	0.1592	0.1661	25.00	26.08	ug/L	4	30	
1,2,4-Trichlorobenzene	0.3931	0.4313	25.00	27.43	ug/L	10	30	
Hexachlorobutadiene	0.1229	0.1784	25.00	29.70	ug/L	19	30	
Naphthalene	1.0879	1.1792	25.00	27.10	ug/L	8	30	
1,2,3-Trichlorobenzene	0.3826	0.4165	25.00	27.21	ug/L	9	30	
tert-Butyl Alcohol (TBA)	0.0602	0.0578	125.0	120.0	ug/L	-4	30	
Isopropyl Ether (DIPE)	2.5027	2.3832	25.00	23.81	ug/L	-5	30	
Ethyl tert-Butyl Ether (ETBE)	1.6278	1.7254	25.00	26.50	ug/L	6	30	
Methyl tert-Amyl Ether (TAME)	0.7096	0.6886	25.00	24.26	ug/L	-3	30	
Cyclohexanone	0.1257	0.0382	250.0	76.01	ug/L	-70	30	v- ***
Ethanol	0.0105	0.0102	2500	2414	ug/L	-3	30	
Isopropanol	0.0534	0.0501	250.0	234.8	ug/L	-6	30	
Tetrahydrofuran	0.2425	0.2341	250.0	241.3	ug/L	-3	30	

ISTD (ICAL hb115)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1400499	1442265	2.98	10.48	10.47	-0.01
1,4-Difluorobenzene	2944215	2927349	-0.57	11.61	11.62	0.01
Chlorobenzene-d5	2503542	2525552	0.88	15.61	15.62	0.01
1,4-Dichlorobenzene-d4	1111278	1105699	-0.50	18.34	18.33	-0.01

LW 2-2-06

-=low bias v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA06 Run Name: 20PPB IDF : 1.0
Seqnum : 456104161003 File : fcd03 Time : 13-MAR-2006 08:51
Cal : 456098395001 Caldate : 09-MAR-2006 Caltype : WATER
Standards: S2844 (25000X), S2783 (25000X), S2410 (50000X), S2740 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.8758	0.8732	20.00	19.94	ug/L	0	30	0.0500	
Chloromethane	0.8831	0.7609	20.00	17.23	ug/L	-14	30	0.1000	
Vinyl Chloride	0.7006	0.6155	20.00	17.57	ug/L	-12	20	0.0500	
Bromomethane	0.4629	0.4133	20.00	17.85	ug/L	-11	30	0.0500	
Chloroethane	0.3861	0.3272	20.00	16.95	ug/L	-15	30	0.0500	
Trichlorofluoromethane	0.9702	0.9031	20.00	18.62	ug/L	-7	30	0.0500	
Acetone	0.3588	0.3414	20.00	19.03	ug/L	-5	40	0.0500	
Freon 113	0.4860	0.4761	20.00	18.40	ug/L	-8	30	0.0500	
1,1-Dichloroethene	0.5785	0.5052	20.00	17.47	ug/L	-13	20	0.0500	
Methylene Chloride	0.8432	0.7511	20.00	17.82	ug/L	-11	30	0.0500	
Carbon Disulfide	2.3558	2.0670	20.00	17.55	ug/L	-12	30	0.0500	
MTBE	2.3661	2.1012	20.00	17.76	ug/L	-11	30	0.0500	
trans-1,2-Dichloroethene	0.7174	0.6191	20.00	17.26	ug/L	-14	30	0.0500	
Vinyl Acetate	2.1122	1.9081	20.00	18.07	ug/L	-10	40	0.0500	
1,1-Dichloroethane	1.3283	1.1576	20.00	17.43	ug/L	-13	30	0.1000	
2-Butanone	0.5094	0.4356	20.00	17.10	ug/L	-14	40	0.0500	
2,2-Dichloropropane	0.8606	0.8686	20.00	20.19	ug/L	1	30	0.0500	
cis-1,2-Dichloroethene	0.8444	0.7191	20.00	17.03	ug/L	-15	30	0.0500	
Chloroform	1.3107	1.1939	20.00	18.22	ug/L	-9	20	0.0500	
Bromochloromethane	0.3941	0.3837	20.00	19.47	ug/L	-3	30	0.0500	
1,1,1-Trichloroethane	0.8608	0.7888	20.00	18.33	ug/L	-8	30	0.0500	
1,1-Dichloropropene	0.4704	0.4325	20.00	18.39	ug/L	-8	30	0.0500	
Carbon Tetrachloride	0.3261	0.3326	20.00	20.39	ug/L	2	30	0.0500	
1,2-Dichloroethane	0.5232	0.5115	20.00	19.55	ug/L	-2	30	0.0500	
Benzene	1.5622	1.3964	20.00	17.88	ug/L	-11	30	0.0500	
Trichloroethene	0.3692	0.3534	20.00	19.14	ug/L	-4	30	0.0500	
1,2-Dichloropropane	0.4513	0.3973	20.00	17.61	ug/L	-12	20	0.0500	
Bromodichloromethane	0.5305	0.5328	20.00	20.09	ug/L	0	30	0.0500	
Dibromomethane	0.3124	0.3008	20.00	19.26	ug/L	-4	30	0.0500	
2-Chloroethylvinylether	0.0301	0.0259	20.00	17.20	ug/L	-14	40	0.0500	crf irf rsd ***
4-Methyl-2-Pentanone	0.5545	0.4554	20.00	16.42	ug/L	-18	40	0.0500	
Tetramethyl THF	0.9678	0.8326	20.00	17.21	ug/L	-14	30	0.0500	
cis-1,3-Dichloropropene	0.6778	0.6503	20.00	19.19	ug/L	-4	30	0.0500	
Toluene	0.8800	0.8092	20.00	18.39	ug/L	-8	20	0.0500	
trans-1,3-Dichloropropene	0.6256	0.6165	20.00	19.71	ug/L	-1	30	0.0500	
1,1,2-Trichloroethane	0.2283	0.2084	20.00	18.25	ug/L	-9	30	0.0500	
2-Hexanone	0.4698	0.4076	20.00	17.35	ug/L	-13	40	0.0500	
1,3-Dichloropropane	0.8366	0.7888	20.00	18.86	ug/L	-6	30	0.0500	
Tetrachloroethene	0.3445	0.3493	20.00	20.28	ug/L	1	30	0.0500	
Dibromochloromethane	0.4736	0.4885	20.00	20.63	ug/L	3	30	0.0500	
1,2-Dibromoethane	0.4288	0.4070	20.00	18.98	ug/L	-5	30	0.0500	
Chlorobenzene	1.0998	1.0606	20.00	19.29	ug/L	-4	30	0.3000	
1,1,1,2-Tetrachloroethane	0.4076	0.4019	20.00	19.72	ug/L	-1	30	0.0500	
Ethylbenzene	1.8069	1.7326	20.00	19.18	ug/L	-4	20	0.0500	
m,p-Xylenes	0.6428	0.6056	40.00	37.68	ug/L	-6	30	0.0500	
o-Xylene	0.6565	0.6234	20.00	18.99	ug/L	-5	30	0.0500	
Styrene	1.1624	1.1283	20.00	19.41	ug/L	-3	30	0.0500	
Bromoform	0.3842	0.3800	20.00	19.78	ug/L	-1	30	0.1000	
Isopropylbenzene	3.0248	2.7762	20.00	18.36	ug/L	-8	30	0.0500	

Q 3/14/06

pw 3/13/06

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.4808	1.3198	20.00	17.82	ug/L	-11	30	0.3000	
1,2,3-Trichloropropane	1.2054	0.9981	20.00	16.56	ug/L	-17	30	0.0500	
Propylbenzene	3.7416	3.3876	20.00	18.11	ug/L	-9	30	0.0500	
Bromobenzene	1.0284	0.9844	20.00	19.14	ug/L	-4	30	0.0500	
1,3,5-Trimethylbenzene	2.1948	2.0663	20.00	18.83	ug/L	-6	30	0.0500	
2-Chlorotoluene	2.8627	2.5763	20.00	18.00	ug/L	-10	30	0.0500	
4-Chlorotoluene	2.6572	2.4062	20.00	18.11	ug/L	-9	30	0.0500	
tert-Butylbenzene	1.7779	1.6626	20.00	18.70	ug/L	-6	30	0.0500	
1,2,4-Trimethylbenzene	2.0875	1.9363	20.00	18.55	ug/L	-7	30	0.0500	
sec-Butylbenzene	2.4829	2.3487	20.00	18.92	ug/L	-5	30	0.0500	
para-Isopropyl Toluene	1.7295	1.7340	20.00	20.05	ug/L	0	30	0.0500	
1,3-Dichlorobenzene	1.5895	1.5470	20.00	19.47	ug/L	-3	30	0.0500	
1,4-Dichlorobenzene	1.6202	1.5365	20.00	18.97	ug/L	-5	30	0.0500	
n-Butylbenzene	1.3453	1.3431	20.00	19.97	ug/L	0	30	0.0500	
1,2-Dichlorobenzene	1.5850	1.5025	20.00	18.96	ug/L	-5	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.2746	0.2197	20.00	16.68	ug/L	-17	30	0.0500	
1,2,4-Trichlorobenzene	0.3669	0.3981	20.00	19.80	ug/L	-1	30	0.0500	
Hexachlorobutadiene	0.1698	0.2340	20.00	24.20	ug/L	**21**	30	0.0500	!c+
Naphthalene	1.3059	1.2348	20.00	17.69	ug/L	-12	30	0.0500	
1,2,3-Trichlorobenzene	0.3141	0.3690	20.00	19.14	ug/L	-4	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0759	0.0625	200.0	164.8	ug/L	-18	30	0.0050	
Isopropyl Ether (DIPE)	3.2114	2.6948	20.00	16.78	ug/L	-16	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	2.3697	2.1351	20.00	18.02	ug/L	-10	30	0.0500	
Methyl tert-Amyl Ether (TAME)	1.2404	1.1500	20.00	18.54	ug/L	-7	30	0.0500	
Ethanol	0.0103	0.0088	2000	1706	ug/L	-15	30	5.0E-4	
Isopropanol	0.0549	0.0451	200.0	164.0	ug/L	-18	30	0.0050	
Tetrahydrofuran	0.2787	0.2153	200.0	154.5	ug/L	**-23**	30	0.0050	!c-
Dibromofluoromethane	0.6665	0.6577	50.00	49.34	ug/L	-1	30	0.0500	
1,2-Dichloroethane-d4	0.4034	0.4089	50.00	50.67	ug/L	1	30	0.0500	
Trifluorotoluene	0.4068	0.4177	20.00	20.54	ug/L	3	30	0.0500	
Toluene-d8	1.0888	1.0756	50.00	49.39	ug/L	-1	30	0.0500	
Bromofluorobenzene	1.1972	1.1470	50.00	47.90	ug/L	-4	30	0.0500	

ISTD (ICAL fc921)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	957753	1364685	42.49	12.35	12.31	-0.04
1,4-Difluorobenzene	1704082	2366895	38.90	13.66	13.63	-0.03
Chlorobenzene-d5	1422227	1962329	37.98	18.32	18.30	-0.02
1,4-Dichlorobenzene-d4	701343	994946	41.86	21.16	21.14	-0.02

!=warning +=high bias -=low bias c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure rsd=ICAL %RSD failure

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA07 Run Name: 20 PPB IDF : 1.0
Seqnum : 466104223003 File : gcd03 Time : 13-MAR-2006 09:48
Cal : 466096970001 Caldate : 08-MAR-2006 Caltype : WATER
Standards: S2844 (25000X), S2783 (25000X), S2410 (50000X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.7271	0.6644	20.00	18.28	ug/L	-9	30	0.0500	
Chloromethane	1.0160	0.9353	20.00	21.85	ug/L	9	30	0.1000	
Vinyl Chloride	0.7952	0.7297	20.00	20.88	ug/L	4	20	0.0500	
Bromomethane	0.5326	0.4431	20.00	20.11	ug/L	1	30	0.0500	
Chloroethane	0.5174	0.4310	20.00	16.66	ug/L	-17	30	0.0500	
Trichlorofluoromethane	0.8840	0.7142	20.00	16.16	ug/L	-19	30	0.0500	
Acetone	0.2212	0.1783	20.00	16.13	ug/L	-19	40	0.0500	
Freon 113	0.4443	0.4645	20.00	20.91	ug/L	5	30	0.0500	
1,1-Dichloroethene	0.3736	0.3732	20.00	19.98	ug/L	0	20	0.0500	
Methylene Chloride	0.5963	0.5945	20.00	19.94	ug/L	0	30	0.0500	
Carbon Disulfide	1.9040	1.7571	20.00	18.46	ug/L	-8	30	0.0500	
MTBE	1.4828	1.4616	20.00	17.63	ug/L	-12	30	0.0500	
trans-1,2-Dichloroethene	0.5257	0.5268	20.00	20.04	ug/L	0	30	0.0500	
Vinyl Acetate	1.2546	1.2671	20.00	17.50	ug/L	-12	40	0.0500	
1,1-Dichloroethane	1.1255	1.0926	20.00	19.42	ug/L	-3	30	0.1000	
2-Butanone	0.2826	0.2391	20.00	16.92	ug/L	-15	40	0.0500	
2,2-Dichloropropane	0.7127	0.7921	20.00	22.23	ug/L	11	30	0.0500	
cis-1,2-Dichloroethene	0.5402	0.5546	20.00	20.53	ug/L	3	30	0.0500	
Chloroform	1.0480	1.0354	20.00	19.76	ug/L	-1	20	0.0500	
Bromochloromethane	0.2858	0.2825	20.00	19.76	ug/L	-1	30	0.0500	
1,1,1-Trichloroethane	0.8393	0.7903	20.00	18.83	ug/L	-6	30	0.0500	
1,1-Dichloropropene	0.3732	0.3710	20.00	19.88	ug/L	-1	30	0.0500	
Carbon Tetrachloride	0.3897	0.3592	20.00	18.44	ug/L	-8	30	0.0500	
1,2-Dichloroethane	0.5405	0.5022	20.00	18.58	ug/L	-7	30	0.0500	
Benzene	1.4121	1.3750	20.00	19.47	ug/L	-3	30	0.0500	
Trichloroethene	0.2946	0.2827	20.00	19.19	ug/L	-4	30	0.0500	
1,2-Dichloropropane	0.3446	0.3638	20.00	21.11	ug/L	6	20	0.0500	
Bromodichloromethane	0.4141	0.4074	20.00	19.68	ug/L	-2	30	0.0500	
Dibromomethane	0.2031	0.1984	20.00	19.54	ug/L	-2	30	0.0500	
2-Chloroethylvinylether	0.1412	0.1358	20.00	16.57	ug/L	-17	40	0.0500	
4-Methyl-2-Pentanone	0.3360	0.2863	20.00	16.47	ug/L	-18	40	0.0500	
Tetramethyl THF	0.5813	0.6011	20.00	17.23	ug/L	-14	30	0.0500	
cis-1,3-Dichloropropene	0.4911	0.5547	20.00	19.59	ug/L	-2	30	0.0500	
Toluene	0.8121	0.8064	20.00	19.86	ug/L	-1	20	0.0500	
trans-1,3-Dichloropropene	0.4632	0.4615	20.00	19.92	ug/L	0	30	0.0500	
1,1,2-Trichloroethane	0.1675	0.1563	20.00	18.66	ug/L	-7	30	0.0500	
2-Hexanone	0.2238	0.1720	20.00	15.49	ug/L	-23	40	0.0500	
1,3-Dichloropropane	0.5822	0.5926	20.00	20.36	ug/L	2	30	0.0500	
Tetrachloroethene	0.2863	0.2791	20.00	19.49	ug/L	-3	30	0.0500	
Dibromochloromethane	0.2922	0.2773	20.00	18.98	ug/L	-5	30	0.0500	
1,2-Dibromoethane	0.2858	0.2691	20.00	18.83	ug/L	-6	30	0.0500	
Chlorobenzene	1.0124	0.9816	20.00	19.39	ug/L	-3	30	0.3000	
1,1,1,2-Tetrachloroethane	0.3389	0.3287	20.00	19.40	ug/L	-3	30	0.0500	
Ethylbenzene	1.5155	1.5715	20.00	20.74	ug/L	4	20	0.0500	
m,p-Xylenes	0.5688	0.6400	40.00	40.23	ug/L	1	30	0.0500	
o-Xylene	0.5099	0.5653	20.00	19.27	ug/L	-4	30	0.0500	
Styrene	0.8523	0.9878	20.00	18.94	ug/L	-5	30	0.0500	
Bromoform	0.2051	0.1812	20.00	17.67	ug/L	-12	30	0.1000	
Isopropylbenzene	1.9702	2.3418	20.00	20.48	ug/L	2	30	0.0500	

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Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.8243	0.7463	20.00	18.11	ug/L	-9	30	0.3000	
1,2,3-Trichloropropane	0.8330	0.7771	20.00	18.66	ug/L	-7	30	0.0500	
Propylbenzene	2.9623	3.3191	20.00	22.41	ug/L	12	30	0.0500	
Bromobenzene	0.6984	0.7008	20.00	20.07	ug/L	0	30	0.0500	
1,3,5-Trimethylbenzene	2.0134	2.3551	20.00	20.92	ug/L	5	30	0.0500	
2-Chlorotoluene	2.1397	2.3229	20.00	21.71	ug/L	9	30	0.0500	
4-Chlorotoluene	1.9400	2.1437	20.00	22.10	ug/L	11	30	0.0500	
tert-Butylbenzene	1.5827	1.8337	20.00	20.55	ug/L	3	30	0.0500	
1,2,4-Trimethylbenzene	2.0305	2.4566	20.00	20.76	ug/L	4	30	0.0500	
sec-Butylbenzene	2.4182	2.8035	20.00	20.42	ug/L	2	30	0.0500	
para-Isopropyl Toluene	2.0237	2.4319	20.00	20.58	ug/L	3	30	0.0500	
1,3-Dichlorobenzene	1.3836	1.4288	20.00	20.65	ug/L	3	30	0.0500	
1,4-Dichlorobenzene	1.5594	1.5231	20.00	19.53	ug/L	-2	30	0.0500	
n-Butylbenzene	2.0647	2.4702	20.00	21.51	ug/L	8	30	0.0500	
1,2-Dichlorobenzene	1.3421	1.3836	20.00	20.62	ug/L	3	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1573	0.1392	20.00	17.29	ug/L	-14	30	0.0500	
1,2,4-Trichlorobenzene	0.9365	0.9883	20.00	21.11	ug/L	6	30	0.0500	
Hexachlorobutadiene	0.3746	0.3900	20.00	20.83	ug/L	4	30	0.0500	
Naphthalene	2.0582	2.3839	20.00	18.53	ug/L	-7	30	0.0500	
1,2,3-Trichlorobenzene	0.9432	0.9849	20.00	20.88	ug/L	4	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0382	0.0319	200.0	167.4	ug/L	-16	30	0.0050	
Isopropyl Ether (DIPE)	1.7865	1.9245	20.00	18.87	ug/L	-6	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.3859	1.4510	20.00	18.33	ug/L	-8	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.8460	0.8298	20.00	17.83	ug/L	-11	30	0.0500	
Cyclohexanone	0.0674	0.0570	200.0	181.2	ug/L	-9	30	0.0050	
Ethanol	0.0071	0.0064	2000	1783	ug/L	-11	30	5.0E-4	
Isopropanol	0.0284	0.0243	200.0	171.5	ug/L	-14	30	0.0050	
Tetrahydrofuran	0.1870	0.1750	200.0	166.2	ug/L	-17	30	0.0050	
Dibromofluoromethane	0.5393	0.5326	50.00	49.37	ug/L	-1	30	0.0500	
1,2-Dichloroethane-d4	0.4518	0.4440	50.00	49.13	ug/L	-2	30	0.0500	
Trifluorotoluene	0.4018	0.3840	20.00	19.11	ug/L	-4	30	0.0500	
Toluene-d8	1.1658	1.1888	50.00	50.98	ug/L	2	30	0.0500	
Bromofluorobenzene	0.9370	0.9606	50.00	51.26	ug/L	3	30	0.0500	

ISTD (ICAL gc814)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	542122	613095	13.09	10.13	10.13	0.00
1,4-Difluorobenzene	912316	1053476	15.47	11.28	11.28	0.00
Chlorobenzene-d5	888382	999975	12.56	15.38	15.38	0.00
1,4-Dichlorobenzene-d4	555422	595030	7.13	18.10	18.10	0.00

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA06 Run Name: 25PPB IDF : 1.0
Seqnum : 456105598006 File : fce06 Time : 14-MAR-2006 10:27
Cal : 456098395001 Caldate : 09-MAR-2006 Caltype : WATER
Standards: S2844 (20000X), S2783 (20000X), S2410 (40000X), S2740 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.8758	0.7891	25.00	22.52	ug/L	-10	30	0.0500	
Chloromethane	0.8831	0.7530	25.00	21.32	ug/L	-15	30	0.1000	
Vinyl Chloride	0.7006	0.5818	25.00	20.76	ug/L	-17	20	0.0500	
Bromomethane	0.4629	0.4025	25.00	21.74	ug/L	-13	30	0.0500	
Chloroethane	0.3861	0.3294	25.00	21.32	ug/L	-15	30	0.0500	
Trichlorofluoromethane	0.9702	0.7831	25.00	20.18	ug/L	-19	30	0.0500	
Acetone	0.3588	0.3861	25.00	26.90	ug/L	8	40	0.0500	
Freon 113	0.4860	0.5338	25.00	25.36	ug/L	1	30	0.0500	
1,1-Dichloroethene	0.5785	0.5143	25.00	22.22	ug/L	-11	20	0.0500	
Methylene Chloride	0.8432	0.7597	25.00	22.53	ug/L	-10	30	0.0500	
Carbon Disulfide	2.3558	2.1802	25.00	23.14	ug/L	-7	30	0.0500	
MTBE	2.3661	2.1213	25.00	22.41	ug/L	-10	30	0.0500	
trans-1,2-Dichloroethene	0.7174	0.6441	25.00	22.45	ug/L	-10	30	0.0500	
Vinyl Acetate	2.1122	2.0856	25.00	24.69	ug/L	-1	40	0.0500	
1,1-Dichloroethane	1.3283	1.2061	25.00	22.70	ug/L	-9	30	0.1000	
2-Butanone	0.5094	0.5383	25.00	26.42	ug/L	6	40	0.0500	
2,2-Dichloropropane	0.8606	0.8526	25.00	24.77	ug/L	-1	30	0.0500	
cis-1,2-Dichloroethene	0.8444	0.7228	25.00	21.40	ug/L	-14	30	0.0500	
Chloroform	1.3107	1.1697	25.00	22.31	ug/L	-11	20	0.0500	
Bromochloromethane	0.3941	0.3719	25.00	23.59	ug/L	-6	30	0.0500	
1,1,1-Trichloroethane	0.8608	0.7827	25.00	22.73	ug/L	-9	30	0.0500	
1,1-Dichloropropene	0.4704	0.4891	25.00	25.99	ug/L	4	30	0.0500	
Carbon Tetrachloride	0.3261	0.3556	25.00	27.26	ug/L	9	30	0.0500	
1,2-Dichloroethane	0.5232	0.5227	25.00	24.97	ug/L	0	30	0.0500	
Benzene	1.5622	1.5271	25.00	24.44	ug/L	-2	30	0.0500	
Trichloroethene	0.3692	0.3719	25.00	25.18	ug/L	1	30	0.0500	
1,2-Dichloropropane	0.4513	0.4455	25.00	24.68	ug/L	-1	20	0.0500	
Bromodichloromethane	0.5305	0.5274	25.00	24.85	ug/L	-1	30	0.0500	
Dibromomethane	0.3124	0.3071	25.00	24.58	ug/L	-2	30	0.0500	
2-Chloroethylvinylether	0.0301	0.0067	25.00	5.536	ug/L	-78	40	0.0500	c- crf irf rsd ***
4-Methyl-2-Pentanone	0.5545	0.5932	25.00	26.74	ug/L	7	40	0.0500	
Tetramethyl THF	0.9678	0.9381	25.00	24.23	ug/L	-3	30	0.0500	
cis-1,3-Dichloropropene	0.6778	0.6934	25.00	25.58	ug/L	2	30	0.0500	
Toluene	0.8800	0.8721	25.00	24.77	ug/L	-1	20	0.0500	
trans-1,3-Dichloropropene	0.6256	0.6249	25.00	24.97	ug/L	0	30	0.0500	
1,1,2-Trichloroethane	0.2283	0.2273	25.00	24.89	ug/L	0	30	0.0500	
2-Hexanone	0.4698	0.5394	25.00	28.71	ug/L	15	40	0.0500	
1,3-Dichloropropane	0.8366	0.8324	25.00	24.88	ug/L	-1	30	0.0500	
Tetrachloroethene	0.3445	0.3732	25.00	27.08	ug/L	8	30	0.0500	
Dibromochloromethane	0.4736	0.4951	25.00	26.13	ug/L	5	30	0.0500	
1,2-Dibromoethane	0.4288	0.4285	25.00	24.98	ug/L	0	30	0.0500	
Chlorobenzene	1.0998	1.1716	25.00	26.63	ug/L	7	30	0.3000	
1,1,1,2-Tetrachloroethane	0.4076	0.4121	25.00	25.28	ug/L	1	30	0.0500	
Ethylbenzene	1.8069	1.9108	25.00	26.44	ug/L	6	20	0.0500	
m,p-Xylenes	0.6428	0.6735	50.00	52.38	ug/L	5	30	0.0500	
o-Xylene	0.6565	0.6858	25.00	26.12	ug/L	4	30	0.0500	
Styrene	1.1624	1.2134	25.00	26.10	ug/L	4	30	0.0500	
Bromoform	0.3842	0.3993	25.00	25.98	ug/L	4	30	0.1000	
Isopropylbenzene	3.0248	2.9684	25.00	24.53	ug/L	-2	30	0.0500	

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Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.4808	1.5039	25.00	25.39	ug/L	2	30	0.3000	
1,2,3-Trichloropropane	1.2054	1.1627	25.00	24.11	ug/L	-4	30	0.0500	
Propylbenzene	3.7416	3.7287	25.00	24.91	ug/L	0	30	0.0500	
Bromobenzene	1.0284	1.0077	25.00	24.50	ug/L	-2	30	0.0500	
1,3,5-Trimethylbenzene	2.1948	2.2669	25.00	25.82	ug/L	3	30	0.0500	
2-Chlorotoluene	2.8627	2.8286	25.00	24.70	ug/L	-1	30	0.0500	
4-Chlorotoluene	2.6572	2.6613	25.00	25.04	ug/L	0	30	0.0500	
tert-Butylbenzene	1.7779	1.7988	25.00	25.29	ug/L	1	30	0.0500	
1,2,4-Trimethylbenzene	2.0875	2.1344	25.00	25.56	ug/L	2	30	0.0500	
sec-Butylbenzene	2.4829	2.6378	25.00	26.56	ug/L	6	30	0.0500	
para-Isopropyl Toluene	1.7295	1.9075	25.00	27.57	ug/L	10	30	0.0500	
1,3-Dichlorobenzene	1.5895	1.6583	25.00	26.08	ug/L	4	30	0.0500	
1,4-Dichlorobenzene	1.6202	1.6665	25.00	25.72	ug/L	3	30	0.0500	
n-Butylbenzene	1.3453	1.6059	25.00	29.84	ug/L	19	30	0.0500	
1,2-Dichlorobenzene	1.5850	1.6416	25.00	25.89	ug/L	4	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.2746	0.2674	25.00	25.55	ug/L	2	30	0.0500	
1,2,4-Trichlorobenzene	0.3669	0.4691	25.00	28.05	ug/L	12	30	0.0500	
Hexachlorobutadiene	0.1698	0.2572	25.00	32.53	ug/L	**30**	30	0.0500	!c+
Naphthalene	1.3059	1.4783	25.00	25.85	ug/L	3	30	0.0500	
1,2,3-Trichlorobenzene	0.3141	0.4408	25.00	27.33	ug/L	9	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0759	0.0777	250.0	256.0	ug/L	2	30	0.0050	
Isopropyl Ether (DIPE)	3.2114	2.8592	25.00	22.26	ug/L	-11	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	2.3697	2.1321	25.00	22.49	ug/L	-10	30	0.0500	
Methyl tert-Amyl Ether (TAME)	1.2404	1.2085	25.00	24.36	ug/L	-3	30	0.0500	
Ethanol	0.0103	0.0137	2500	3349	ug/L	**34**	30	5.0E-4	c+ ***
Isopropanol	0.0549	0.0686	250.0	312.1	ug/L	**25**	30	0.0050	!c+
Tetrahydrofuran	0.2787	0.2674	250.0	239.8	ug/L	-4	30	0.0050	
Dibromofluoromethane	0.6665	0.6152	50.00	46.15	ug/L	-8	30	0.0500	
1,2-Dichloroethane-d4	0.4034	0.3905	50.00	48.40	ug/L	-3	30	0.0500	
Trifluorotoluene	0.4068	0.4375	25.00	26.89	ug/L	8	30	0.0500	
Toluene-d8	1.0888	1.0664	50.00	48.97	ug/L	-2	30	0.0500	
Bromofluorobenzene	1.1972	1.1409	50.00	47.65	ug/L	-5	30	0.0500	

ISTD (ICAL fc921)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	957753	944439	-1.39	12.35	12.33	-0.02
1,4-Difluorobenzene	1704082	1574094	-7.63	13.66	13.65	-0.01
Chlorobenzene-d5	1422227	1286960	-9.51	18.32	18.31	-0.01
1,4-Dichlorobenzene-d4	701343	659187	-6.01	21.16	21.15	-0.01

!=warning +=high bias -=low bias c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure rsd=ICAL %RSD failure

CURTIS & TOMPKINS SPIKE USER REPORT FOR EPA 8260B

Inst : MSVOA07 Run Name: QC331358 IDF : 1.0
Seqnum : 466105552013 File : gce13 Time : 14-MAR-2006 12:25
Cal : 466096970001 Caldate : 08-MAR-2006 Caltype : WATER
Standards: S2616 (10000X), S2807 (10000X), S2902 (10000X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1-Dichloroethene	0.3736	0.4234	25.00	28	ug/L	13	20	0.0500	
Benzene	1.4121	1.3474	25.00	24	ug/L	-5	30	0.0500	
Trichloroethene	0.2946	0.3087	25.00	26	ug/L	5	30	0.0500	
Toluene	0.8121	0.8023	25.00	25	ug/L	-1	20	0.0500	
Chlorobenzene	1.0124	0.9877	25.00	24	ug/L	-2	30	0.3000	
Freon 12	0.7271	0.5374	25.00	18	ug/L	**-26**	30	0.0500	!c- !v-
Chloromethane	1.0160	0.7300	25.00	21	ug/L	-15	30	0.1000	
Vinyl Chloride	0.7952	0.6526	25.00	23	ug/L	-7	20	0.0500	
Bromomethane	0.5326	0.3951	25.00	23	ug/L	-10	30	0.0500	
Chloroethane	0.5174	0.3976	25.00	19	ug/L	**-23**	30	0.0500	!c-
Trichlorofluoromethane	0.8840	0.7668	25.00	22	ug/L	-13	30	0.0500	!v-
Acetone	0.2212	0.1897	25.00	21	ug/L	-14	40	0.0500	
Freon 113	0.4443	0.4617	25.00	26	ug/L	4	30	0.0500	
Methylene Chloride	0.5963	0.5825	25.00	24	ug/L	-2	30	0.0500	
MTBE	1.4828	1.4744	25.00	22	ug/L	-12	30	0.0500	
Carbon Disulfide	1.9040	1.4480	25.00	19	ug/L	**-24**	30	0.0500	!c- !v-
trans-1,2-Dichloroethene	0.5257	0.5297	25.00	25	ug/L	1	30	0.0500	
Vinyl Acetate	1.2546	1.1268	25.00	19	ug/L	-22	40	0.0500	
1,1-Dichloroethane	1.1255	1.0751	25.00	24	ug/L	-4	30	0.1000	
2-Butanone	0.2826	0.2842	25.00	25	ug/L	1	40	0.0500	
cis-1,2-Dichloroethene	0.5402	0.5843	25.00	27	ug/L	8	30	0.0500	
2,2-Dichloropropane	0.7127	0.7850	25.00	28	ug/L	10	30	0.0500	
Chloroform	1.0480	0.9935	25.00	24	ug/L	-5	20	0.0500	
Bromochloromethane	0.2858	0.2789	25.00	24	ug/L	-2	30	0.0500	
1,1,1-Trichloroethane	0.8393	0.8160	25.00	24	ug/L	-3	30	0.0500	
1,1-Dichloropropene	0.3732	0.4271	25.00	29	ug/L	14	30	0.0500	
Carbon Tetrachloride	0.3897	0.3985	25.00	26	ug/L	2	30	0.0500	
1,2-Dichloroethane	0.5405	0.5288	25.00	24	ug/L	-2	30	0.0500	
1,2-Dichloropropane	0.3446	0.3547	25.00	26	ug/L	3	20	0.0500	
Bromodichloromethane	0.4141	0.4432	25.00	27	ug/L	7	30	0.0500	
Dibromomethane	0.2031	0.2070	25.00	25	ug/L	2	30	0.0500	
4-Methyl-2-Pentanone	0.3360	0.3378	25.00	23	ug/L	-7	40	0.0500	
cis-1,3-Dichloropropene	0.4911	0.5864	25.00	26	ug/L	3	30	0.0500	
trans-1,3-Dichloropropene	0.4632	0.4870	25.00	26	ug/L	5	30	0.0500	
1,1,2-Trichloroethane	0.1675	0.1682	25.00	25	ug/L	0	30	0.0500	
2-Hexanone	0.2238	0.2347	25.00	25	ug/L	-1	40	0.0500	
1,3-Dichloropropane	0.5822	0.6402	25.00	27	ug/L	10	30	0.0500	
Tetrachloroethene	0.2863	0.3112	25.00	27	ug/L	9	30	0.0500	
Dibromochloromethane	0.2922	0.3176	25.00	27	ug/L	9	30	0.0500	
1,2-Dibromoethane	0.2858	0.2915	25.00	26	ug/L	2	30	0.0500	
2-Chloroethylvinylether	0.1412	0.1911	25.00	27	ug/L	9	40	0.0500	
1,1,1,2-Tetrachloroethane	0.3389	0.3413	25.00	25	ug/L	1	30	0.0500	
Ethylbenzene	1.5155	1.6764	25.00	28	ug/L	11	20	0.0500	
m,p-Xylenes	0.5688	0.6557	50.00	51	ug/L	2	30	0.0500	
o-Xylene	0.5099	0.6203	25.00	26	ug/L	4	30	0.0500	
Styrene	0.8523	1.0345	25.00	24	ug/L	-2	30	0.0500	
Bromoform	0.2051	0.2059	25.00	25	ug/L	0	30	0.1000	
Isopropylbenzene	1.9702	2.5315	25.00	27	ug/L	9	30	0.0500	
1,1,2,2-Tetrachloroethane	0.8243	0.8173	25.00	25	ug/L	-1	30	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.8330	0.8663	25.00	26	ug/L	4	30	0.0500	
Propylbenzene	2.9623	3.7725	25.00	32	ug/L	**27**	30	0.0500	!c+
Bromobenzene	0.6984	0.7264	25.00	26	ug/L	4	30	0.0500	
1,3,5-Trimethylbenzene	2.0134	2.5707	25.00	28	ug/L	13	30	0.0500	
2-Chlorotoluene	2.1397	2.5517	25.00	30	ug/L	19	30	0.0500	
4-Chlorotoluene	1.9400	2.3197	25.00	30	ug/L	20	30	0.0500	
tert-Butylbenzene	1.5827	2.1399	25.00	29	ug/L	18	30	0.0500	
1,2,4-Trimethylbenzene	2.0305	2.6353	25.00	28	ug/L	10	30	0.0500	
sec-Butylbenzene	2.4182	3.3452	25.00	30	ug/L	20	30	0.0500	
para-Isopropyl Toluene	2.0237	2.6821	25.00	28	ug/L	12	30	0.0500	
1,3-Dichlorobenzene	1.3836	1.4700	25.00	27	ug/L	6	30	0.0500	
1,4-Dichlorobenzene	1.5594	1.5554	25.00	25	ug/L	0	30	0.0500	
n-Butylbenzene	2.0647	2.7972	25.00	30	ug/L	20	30	0.0500	
1,2-Dichlorobenzene	1.3421	1.4343	25.00	27	ug/L	7	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1573	0.1634	25.00	25	ug/L	0	30	0.0500	
1,2,4-Trichlorobenzene	0.9365	1.0894	25.00	29	ug/L	16	30	0.0500	
Hexachlorobutadiene	0.3746	0.4644	25.00	31	ug/L	**24**	30	0.0500	!c+
Naphthalene	2.0582	2.8645	25.00	27	ug/L	8	30	0.0500	
1,2,3-Trichlorobenzene	0.9432	1.0886	25.00	29	ug/L	15	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0382	0.0448	125.0	150	ug/L	17	30	0.0050	
Isopropyl Ether (DIPE)	1.7865	1.8913	25.00	23	ug/L	-8	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.3859	1.6333	25.00	25	ug/L	1	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.8460	0.8843	25.00	23	ug/L	-6	30	0.0500	
Isopropanol	0.0284	0.0338	250.0	300	ug/L	19	30	0.0050	
Ethanol	0.0071	0.0085	2500	3000	ug/L	18	30	5.0E-4	
Cyclohexanone	0.0674	0.0277	250.0	120	ug/L	**-53**	30	0.0050	c- v- ***
Tetrahydrofuran	0.1870	0.2068	250.0	240	ug/L	3	30	0.0050	
Tetramethyl THF	0.5813	0.6673	25.00	23	ug/L	-6	30	0.0500	
Dibromofluoromethane	0.5393	0.5104	50.00	47	ug/L	-5	30	0.0500	
1,2-Dichloroethane-d4	0.4518	0.4325	50.00	48	ug/L	-4	30	0.0500	
Toluene-d8	1.1658	1.1605	50.00	50	ug/L	0	30	0.0500	
Bromofluorobenzene	0.9370	0.9745	50.00	52	ug/L	4	30	0.0500	

ISTD (ICAL gc814)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	542122	555010	2.38	10.13	10.13	0.00
1,4-Difluorobenzene	912316	955030	4.68	11.28	11.28	0.00
Chlorobenzene-d5	888382	877957	-1.17	15.38	15.38	0.00
1,4-Dichlorobenzene-d4	555422	492256	-11.37	18.10	18.10	0.00

LW 3-14-06

Q 3/15/06

!=warning +=high bias -=low bias c=CCV v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA08 Run Name: 30 PPB IDF : 1.0
Seqnum : 476105558003 File : hce03 Time : 14-MAR-2006 08:18
Cal : 476046588001 Caldate : 01-FEB-2006 Caltype : WATER
Standards: S2844 (16670X), S2783 (16670X), S2410 (33330X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.5796	0.6119	30.00	28.93	ug/L	-4	30	0.0500	
Chloromethane	0.9006	0.8878	30.00	29.57	ug/L	-1	30	0.1000	
Vinyl Chloride	0.6624	0.7499	30.00	33.97	ug/L	13	20	0.0500	
Bromomethane	0.2589	0.2708	30.00	27.13	ug/L	-10	30	0.0500	
Chloroethane	0.3907	0.4001	30.00	30.72	ug/L	2	30	0.0500	
Trichlorofluoromethane	0.4825	0.6021	30.00	37.44	ug/L	**25**	30	0.0500	!c+
Acetone	0.3021	0.2853	30.00	28.33	ug/L	-6	40	0.0500	
Freon 113	0.3302	0.4235	30.00	29.35	ug/L	-2	30	0.0500	
1,1-Dichloroethene	0.3600	0.3805	30.00	31.71	ug/L	6	20	0.0500	
Methylene Chloride	0.5823	0.5107	30.00	26.31	ug/L	-12	30	0.0500	
Carbon Disulfide	1.7971	1.8134	30.00	30.27	ug/L	1	30	0.0500	
MTBE	1.4527	1.4733	30.00	30.42	ug/L	1	30	0.0500	
trans-1,2-Dichloroethene	0.4543	0.4510	30.00	29.78	ug/L	-1	30	0.0500	
Vinyl Acetate	1.6426	1.8407	30.00	33.62	ug/L	12	40	0.0500	
1,1-Dichloroethane	1.0006	0.9917	30.00	29.73	ug/L	-1	30	0.1000	
2-Butanone	0.4575	0.4150	30.00	27.21	ug/L	-9	40	0.0500	
2,2-Dichloropropane	0.5854	0.6656	30.00	34.11	ug/L	14	30	0.0500	
cis-1,2-Dichloroethene	0.4992	0.4857	30.00	29.19	ug/L	-3	30	0.0500	
Chloroform	0.8302	0.8263	30.00	29.86	ug/L	0	20	0.0500	
Bromochloromethane	0.2270	0.2131	30.00	28.15	ug/L	-6	30	0.0500	
1,1,1-Trichloroethane	0.5226	0.5691	30.00	32.67	ug/L	9	30	0.0500	
1,1-Dichloropropene	0.2840	0.3065	30.00	29.35	ug/L	-2	30	0.0500	
Carbon Tetrachloride	0.1859	0.2070	30.00	29.10	ug/L	-3	30	0.0500	
1,2-Dichloroethane	0.3470	0.3424	30.00	29.60	ug/L	-1	30	0.0500	
Benzene	0.8363	0.8293	30.00	29.75	ug/L	-1	30	0.0500	
Trichloroethene	0.2025	0.2041	30.00	30.23	ug/L	1	30	0.0500	
1,2-Dichloropropane	0.2865	0.2740	30.00	28.70	ug/L	-4	20	0.0500	
Bromodichloromethane	0.3039	0.2974	30.00	29.36	ug/L	-2	30	0.0500	
Dibromomethane	0.1588	0.1508	30.00	28.49	ug/L	-5	30	0.0500	
2-Chloroethylvinylether	0.0733	0.0651	30.00	23.07	ug/L	-23	40	0.0500	
4-Methyl-2-Pentanone	0.4139	0.3766	30.00	27.29	ug/L	-9	40	0.0500	
Tetramethyl THF	0.7071	0.7203	30.00	30.56	ug/L	2	30	0.0500	
cis-1,3-Dichloropropene	0.3937	0.3832	30.00	29.20	ug/L	-3	30	0.0500	
Toluene	0.4496	0.4483	30.00	29.91	ug/L	0	20	0.0500	
trans-1,3-Dichloropropene	0.3620	0.3465	30.00	28.72	ug/L	-4	30	0.0500	
1,1,2-Trichloroethane	0.1200	0.1096	30.00	27.40	ug/L	-9	30	0.0500	
2-Hexanone	0.3361	0.3052	30.00	27.24	ug/L	-9	40	0.0500	
1,3-Dichloropropane	0.4573	0.4344	30.00	28.50	ug/L	-5	30	0.0500	
Tetrachloroethene	0.1551	0.1630	30.00	27.31	ug/L	-9	30	0.0500	
Dibromochloromethane	0.2193	0.2099	30.00	28.71	ug/L	-4	30	0.0500	
1,2-Dibromoethane	0.2117	0.2000	30.00	28.34	ug/L	-6	30	0.0500	
Chlorobenzene	0.5482	0.5329	30.00	29.16	ug/L	-3	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1843	0.1828	30.00	29.75	ug/L	-1	30	0.0500	
Ethylbenzene	0.9264	0.9468	30.00	30.66	ug/L	2	20	0.0500	
m,p-Xylenes	0.3213	0.3319	60.00	61.98	ug/L	3	30	0.0500	
o-Xylene	0.3218	0.3295	30.00	30.72	ug/L	2	30	0.0500	
Styrene	0.5822	0.5847	30.00	30.13	ug/L	0	30	0.0500	
Bromoform	0.1450	0.1301	30.00	26.91	ug/L	-10	30	0.1000	
Isopropylbenzene	1.7784	1.9154	30.00	32.31	ug/L	8	30	0.0500	

3/15/06

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.8631	0.8206	30.00	28.52	ug/L	-5	30	0.3000	
1,2,3-Trichloropropane	0.1962	0.1946	30.00	29.75	ug/L	-1	30	0.0500	
Propylbenzene	2.3081	2.5285	30.00	32.87	ug/L	10	30	0.0500	
Bromobenzene	0.4470	0.4433	30.00	29.75	ug/L	-1	30	0.0500	
1,3,5-Trimethylbenzene	1.4355	1.5162	30.00	31.69	ug/L	6	30	0.0500	
2-Chlorotoluene	1.6443	1.6839	30.00	30.72	ug/L	2	30	0.0500	
4-Chlorotoluene	1.5655	1.5412	30.00	29.53	ug/L	-2	30	0.0500	
tert-Butylbenzene	1.1200	1.1704	30.00	27.61	ug/L	-8	30	0.0500	
1,2,4-Trimethylbenzene	1.4917	1.4912	30.00	29.99	ug/L	0	30	0.0500	
sec-Butylbenzene	1.8394	1.9667	30.00	27.64	ug/L	-8	30	0.0500	
para-Isopropyl Toluene	1.3712	1.4090	30.00	27.20	ug/L	-9	30	0.0500	
1,3-Dichlorobenzene	0.8196	0.7993	30.00	29.26	ug/L	-2	30	0.0500	
1,4-Dichlorobenzene	0.8520	0.8438	30.00	29.71	ug/L	-1	30	0.0500	
n-Butylbenzene	1.4409	1.4287	30.00	26.27	ug/L	-12	30	0.0500	
1,2-Dichlorobenzene	0.7873	0.7751	30.00	29.53	ug/L	-2	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1592	0.1326	30.00	24.98	ug/L	-17	30	0.0500	
1,2,4-Trichlorobenzene	0.3931	0.3365	30.00	25.68	ug/L	-14	30	0.0500	
Hexachlorobutadiene	0.1229	0.1206	30.00	24.14	ug/L	-20	30	0.0500	
Naphthalene	1.0879	1.0266	30.00	28.31	ug/L	-6	30	0.0500	
1,2,3-Trichlorobenzene	0.3826	0.3210	30.00	25.17	ug/L	-16	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0602	0.0542	300.0	269.8	ug/L	-10	30	0.0050	
Isopropyl Ether (DIPE)	2.5027	2.7228	30.00	32.64	ug/L	9	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.6278	1.7071	30.00	31.46	ug/L	5	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.7096	0.6633	30.00	28.04	ug/L	-7	30	0.0500	
Cyclohexanone	0.1257	0.1277	300.0	304.7	ug/L	2	30	0.0050	
Ethanol	0.0105	0.0101	3000	2866	ug/L	-4	30	5.0E-4	
Isopropanol	0.0534	0.0492	300.0	276.7	ug/L	-8	30	0.0050	
Tetrahydrofuran	0.2425	0.2249	300.0	278.3	ug/L	-7	30	0.0050	
Dibromofluoromethane	0.7768	0.7776	50.00	50.05	ug/L	0	30	0.0500	
1,2-Dichloroethane-d4	0.5078	0.5067	50.00	49.90	ug/L	0	30	0.0500	
Trifluorotoluene	0.1908	0.2083	30.00	28.05	ug/L	-6	30	0.0500	
Toluene-d8	1.1251	1.1300	50.00	50.21	ug/L	0	30	0.0500	
Bromofluorobenzene	1.3034	1.2896	50.00	49.47	ug/L	-1	30	0.0500	

ISTD (ICAL hb115)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1400499	1172954	-16.25	10.48	10.48	0.00
1,4-Difluorobenzene	2944215	2497407	-15.18	11.61	11.61	0.00
Chlorobenzene-d5	2503542	2136791	-14.65	15.61	15.61	0.00
1,4-Dichlorobenzene-d4	1111278	905690	-18.50	18.34	18.33	-0.01

LW 3-14-06

!=warning +=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA08 Run Name: 30 PPB IDF : 1.0
Seqnum : 476105558007 File : hce07 Time : 14-MAR-2006 10:40
Cal : 476046588001 Caldate : 01-FEB-2006 Caltype : WATER
Standards: S2844 (16670X), S2783 (16670X), S2410 (33330X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.5796	0.5483	30.00	25.90	ug/L	-14	30	0.0500	
Chloromethane	0.9006	0.8048	30.00	26.81	ug/L	-11	30	0.1000	
Vinyl Chloride	0.6624	0.6829	30.00	30.93	ug/L	3	20	0.0500	
Bromomethane	0.2589	0.2406	30.00	24.28	ug/L	-19	30	0.0500	m
Chloroethane	0.3907	0.3758	30.00	28.85	ug/L	-4	30	0.0500	
Trichlorofluoromethane	0.4825	0.5447	30.00	33.87	ug/L	13	30	0.0500	
Acetone	0.3021	0.2461	30.00	24.43	ug/L	-19	40	0.0500	
Freon 113	0.3302	0.4018	30.00	27.89	ug/L	-7	30	0.0500	
1,1-Dichloroethene	0.3600	0.3531	30.00	29.42	ug/L	-2	20	0.0500	
Methylene Chloride	0.5823	0.4840	30.00	24.94	ug/L	-17	30	0.0500	
Carbon Disulfide	1.7971	1.6817	30.00	28.07	ug/L	-6	30	0.0500	
MTBE	1.4527	1.4221	30.00	29.37	ug/L	-2	30	0.0500	
trans-1,2-Dichloroethene	0.4543	0.4224	30.00	27.90	ug/L	-7	30	0.0500	
Vinyl Acetate	1.6426	1.7432	30.00	31.84	ug/L	6	40	0.0500	
1,1-Dichloroethane	1.0006	0.9275	30.00	27.81	ug/L	-7	30	0.1000	
2-Butanone	0.4575	0.3838	30.00	25.17	ug/L	-16	40	0.0500	
2,2-Dichloropropane	0.5854	0.5951	30.00	30.50	ug/L	2	30	0.0500	
cis-1,2-Dichloroethene	0.4992	0.4665	30.00	28.04	ug/L	-7	30	0.0500	
Chloroform	0.8302	0.7777	30.00	28.10	ug/L	-6	20	0.0500	
Bromochloromethane	0.2270	0.2124	30.00	28.06	ug/L	-6	30	0.0500	
1,1,1-Trichloroethane	0.5226	0.5376	30.00	30.86	ug/L	3	30	0.0500	
1,1-Dichloropropene	0.2840	0.2966	30.00	28.40	ug/L	-5	30	0.0500	
Carbon Tetrachloride	0.1859	0.2012	30.00	28.30	ug/L	-6	30	0.0500	
1,2-Dichloroethane	0.3470	0.3285	30.00	28.40	ug/L	-5	30	0.0500	
Benzene	0.8363	0.8156	30.00	29.26	ug/L	-2	30	0.0500	
Trichloroethene	0.2025	0.2036	30.00	30.16	ug/L	1	30	0.0500	
1,2-Dichloropropane	0.2865	0.2704	30.00	28.31	ug/L	-6	20	0.0500	
Bromodichloromethane	0.3039	0.2878	30.00	28.42	ug/L	-5	30	0.0500	
Dibromomethane	0.1588	0.1488	30.00	28.11	ug/L	-6	30	0.0500	
2-Chloroethylvinylether	0.0733	0.0669	30.00	23.64	ug/L	-21	40	0.0500	
4-Methyl-2-Pentanone	0.4139	0.3858	30.00	27.97	ug/L	-7	40	0.0500	
Tetramethyl THF	0.7071	0.7077	30.00	30.02	ug/L	0	30	0.0500	
cis-1,3-Dichloropropene	0.3937	0.3725	30.00	28.39	ug/L	-5	30	0.0500	
Toluene	0.4496	0.4536	30.00	30.27	ug/L	1	20	0.0500	
trans-1,3-Dichloropropene	0.3620	0.3399	30.00	28.17	ug/L	-6	30	0.0500	
1,1,2-Trichloroethane	0.1200	0.1109	30.00	27.73	ug/L	-8	30	0.0500	
2-Hexanone	0.3361	0.3007	30.00	26.84	ug/L	-11	40	0.0500	
1,3-Dichloropropane	0.4573	0.4204	30.00	27.58	ug/L	-8	30	0.0500	
Tetrachloroethene	0.1551	0.1663	30.00	27.84	ug/L	-7	30	0.0500	
Dibromochloromethane	0.2193	0.2147	30.00	29.37	ug/L	-2	30	0.0500	
1,2-Dibromoethane	0.2117	0.1971	30.00	27.93	ug/L	-7	30	0.0500	
Chlorobenzene	0.5482	0.5306	30.00	29.04	ug/L	-3	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1843	0.1811	30.00	29.48	ug/L	-2	30	0.0500	
Ethylbenzene	0.9264	0.9491	30.00	30.74	ug/L	2	20	0.0500	
m,p-Xylenes	0.3213	0.3310	60.00	61.81	ug/L	3	30	0.0500	
o-Xylene	0.3218	0.3202	30.00	29.86	ug/L	0	30	0.0500	
Styrene	0.5822	0.5820	30.00	29.99	ug/L	0	30	0.0500	
Bromoform	0.1450	0.1343	30.00	27.79	ug/L	-7	30	0.1000	
Isopropylbenzene	1.7784	1.9261	30.00	32.49	ug/L	8	30	0.0500	

Mar 31, 06

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.8631	0.8189	30.00	28.47	ug/L	-5	30	0.3000	
1,2,3-Trichloropropane	0.1962	0.1978	30.00	30.24	ug/L	1	30	0.0500	
Propylbenzene	2.3081	2.5419	30.00	33.04	ug/L	10	30	0.0500	
Bromobenzene	0.4470	0.4463	30.00	29.95	ug/L	0	30	0.0500	
1,3,5-Trimethylbenzene	1.4355	1.5267	30.00	31.91	ug/L	6	30	0.0500	
2-Chlorotoluene	1.6443	1.6647	30.00	30.37	ug/L	1	30	0.0500	
4-Chlorotoluene	1.5655	1.5908	30.00	30.49	ug/L	2	30	0.0500	
tert-Butylbenzene	1.1200	1.2211	30.00	28.78	ug/L	-4	30	0.0500	
1,2,4-Trimethylbenzene	1.4917	1.5011	30.00	30.19	ug/L	1	30	0.0500	
sec-Butylbenzene	1.8394	2.0454	30.00	28.74	ug/L	-4	30	0.0500	
para-Isopropyl Toluene	1.3712	1.4368	30.00	27.73	ug/L	-8	30	0.0500	
1,3-Dichlorobenzene	0.8196	0.8096	30.00	29.63	ug/L	-1	30	0.0500	
1,4-Dichlorobenzene	0.8520	0.8648	30.00	30.45	ug/L	2	30	0.0500	
n-Butylbenzene	1.4409	1.4749	30.00	27.11	ug/L	-10	30	0.0500	
1,2-Dichlorobenzene	0.7873	0.7808	30.00	29.75	ug/L	-1	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1592	0.1432	30.00	26.98	ug/L	-10	30	0.0500	
1,2,4-Trichlorobenzene	0.3931	0.3563	30.00	27.20	ug/L	-9	30	0.0500	
Hexachlorobutadiene	0.1229	0.1272	30.00	25.44	ug/L	-15	30	0.0500	
Naphthalene	1.0879	1.0592	30.00	29.21	ug/L	-3	30	0.0500	
1,2,3-Trichlorobenzene	0.3826	0.3319	30.00	26.02	ug/L	-13	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0602	0.0539	300.0	268.4	ug/L	-11	30	0.0050	
Isopropyl Ether (DIPE)	2.5027	2.5425	30.00	30.48	ug/L	2	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.6278	1.6210	30.00	29.88	ug/L	0	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.7096	0.6624	30.00	28.00	ug/L	-7	30	0.0500	
Cyclohexanone	0.1257	0.1070	300.0	255.3	ug/L	-15	30	0.0050	
Ethanol	0.0105	0.0098	3000	2788	ug/L	-7	30	5.0E-4	
Isopropanol	0.0534	0.0491	300.0	276.0	ug/L	-8	30	0.0050	
Tetrahydrofuran	0.2425	0.2179	300.0	269.5	ug/L	-10	30	0.0050	
Dibromofluoromethane	0.7768	0.7475	50.00	48.12	ug/L	-4	30	0.0500	
1,2-Dichloroethane-d4	0.5078	0.4966	50.00	48.90	ug/L	-2	30	0.0500	
Trifluorotoluene	0.1908	0.2132	30.00	28.71	ug/L	-4	30	0.0500	
Toluene-d8	1.1251	1.1469	50.00	50.97	ug/L	2	30	0.0500	
Bromofluorobenzene	1.3034	1.2621	50.00	48.42	ug/L	-3	30	0.0500	

ISTD (ICAL hb115)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1400499	1249362	-10.79	10.48	10.48	0.00
1,4-Difluorobenzene	2944215	2567888	-12.78	11.61	11.61	0.00
Chlorobenzene-d5	2503542	2209219	-11.76	15.61	15.61	0.00
1,4-Dichlorobenzene-d4	1111278	936387	-15.74	18.34	18.33	-0.01

LW 3-14-06

m=manual integration

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 13-MAR-2006
Sequence: 456104161 (fcd)
Instrument ID: MSVOA06

ICAL Filename: fc921
Date Analyzed: 09-MAR-2006
Time Analyzed: 19:47

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	957753	12.35	1704082	13.66	1422227	18.32	701343	21.16
LOWER LIMIT	478877	11.85	852041	13.16	711114	17.82	350672	20.66
UPPER LIMIT	1915506	12.85	3408164	14.16	2844454	18.82	1402686	21.66

TYPE	SAMPLE	#								
CCV	20PPB	003	1364685	12.31	2366895	13.63	1962329	18.30	994946	21.14
BS	QC331157	004	1319691	12.31	2275104	13.63	1890112	18.29	972686	21.13
BSD	QC331158	005	1254493	12.31	2204277	13.63	1799719	18.30	912055	21.13
BLANK	QC331159	007	1156186	12.31	2032425	13.62	1668857	18.30	783420	21.14
SAMPLE	185457-015	008	1166565	12.31	2023437	13.62	1673697	18.29	776460	21.14
MSS	185457-016	009	1161324	12.31	2020824	13.63	1682155	18.30	777607	21.14
SAMPLE	185457-017	010	1142137	12.31	1991531	13.63	1706493	18.30	843256	21.14
MSS	185457-020	011	1142199	12.32	2025961	13.64	1691360	18.31	803719	21.14
SAMPLE	185479-035	012	1161052	12.32	2018397	13.63	1681354	18.30	776946	21.15
SAMPLE	185479-037	013	1152484	12.32	1993011	13.64	1674335	18.30	781177	21.15
SAMPLE	185457-019	014	1141462	12.33	1991517	13.64	1658387	18.31	771309	21.14
SAMPLE	185479-036	015	1135829	12.33	1991357	13.64	1643344	18.31	756541	21.14
SAMPLE	185479-038	016	1132834	12.33	2028768	13.64	1681324	18.31	781336	21.14
MS	QC331182	017	1129496	12.32	1984951	13.64	1663492	18.30	843820	21.14
MSD	QC331183	018	1137738	12.32	2036688	13.64	1694641	18.30	856606	21.14
MS	QC331184	019	1144106	12.32	1998483	13.64	1690802	18.30	849602	21.15
MSD	QC331185	020	1176453	12.33	2042212	13.64	1705342	18.31	856969	21.15

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 13-MAR-2006
Sequence: 466104223 (gcd)
Instrument ID: MSVOA07

ICAL Filename: gc814
Date Analyzed: 08-MAR-2006
Time Analyzed: 16:38

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	542122	10.13	912316	11.28	888382	15.38	555422	18.10
LOWER LIMIT	271061	9.63	456158	10.78	444191	14.88	277711	17.60
UPPER LIMIT	1084244	10.63	1824632	11.78	1776764	15.88	1110844	18.60

TYPE	SAMPLE	#								
CCV	20 PPB	003	613095	10.13	1053476	11.28	999975	15.38	595030	18.10
BS	QC331166	004	618028	10.13	1049680	11.28	998634	15.38	608961	18.10
BSD	QC331167	005	632530	10.13	1074801	11.28	1007854	15.38	614677	18.10
BLANK	QC331168	007	534545	10.13	984192	11.28	912313	15.38	505820	18.10
SAMPLE	185457-001	008	514234	10.13	951474	11.28	886163	15.38	493288	18.10
SAMPLE	185457-002	009	505079	10.13	938787	11.28	887634	15.38	482349	18.10
SAMPLE	185457-005	010	493559	10.13	918032	11.28	867076	15.38	480513	18.10
SAMPLE	185457-006	011	487079	10.13	914756	11.28	865674	15.38	477568	18.10
SAMPLE	185457-008	012	479856	10.13	900055	11.28	848552	15.38	464486	18.10
MSS	185457-009	013	469308	10.13	880083	11.28	835003	15.38	457007	18.10
SAMPLE	185457-010	014	460788	10.13	874413	11.28	827839	15.38	458194	18.10
SAMPLE	185457-013	015	454806	10.13	866104	11.28	811883	15.38	452367	18.10
SAMPLE	185428-003	016	462279	10.13	859843	11.28	815034	15.38	441406	18.10
SAMPLE	185428-004	017	452560	10.13	852839	11.28	814170	15.38	442905	18.10
SAMPLE	185429-003	018	451829	10.13	849915	11.28	805791	15.38	439997	18.10
SAMPLE	185429-004	019	449956	10.13	843071	11.28	796547	15.38	435492	18.10
SAMPLE	185457-007	020	438480	10.13	834661	11.28	788783	15.38	422922	18.10
SAMPLE	185457-011	021	465020	10.13	876799	11.28	805458	15.38	442534	18.10
SAMPLE	185457-012	022	475876	10.13	894871	11.28	822071	15.38	450423	18.10
MS	QC331186	023	548778	10.13	929449	11.28	890988	15.38	554298	18.10
MSD	QC331187	024	561101	10.13	955353	11.28	908483	15.38	569663	18.10

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 14-MAR-2006
Sequence: 456105598 (fce)
Instrument ID: MSVOA06

ICAL Filename: fc921
Date Analyzed: 09-MAR-2006
Time Analyzed: 19:47

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	957753	12.35	1704082	13.66	1422227	18.32	701343	21.16
LOWER LIMIT	478877	11.85	852041	13.16	711114	17.82	350672	20.66
UPPER LIMIT	1915506	12.85	3408164	14.16	2844454	18.82	1402686	21.66

TYPE	SAMPLE	#								
CCV	25PPB	006	944439	12.33	1574094	13.65	1286960	18.31	659187	21.15
BS	QC331363	007	890768	12.32	1584381	13.64	1300823	18.31	664643	21.15
BSD	QC331364	008	912708	12.33	1605984	13.65	1305373	18.31	658519	21.15
BLANK	QC331365	010	857421	12.32	1525102	13.65	1261562	18.30	590420	21.15
SAMPLE	185457-019	011	857613	12.32	1543418	13.64	1269463	18.31	575780	21.15
SAMPLE	185401-013	012	844162	12.33	1544834	13.64	1296197	18.31	606464	21.15
SAMPLE	185493-001	013	831440	12.33	1470933	13.64	1249131	18.31	587134	21.15
SAMPLE	185493-002	014	828714	12.33	1505651	13.65	1285084	18.32	569322	21.16
SAMPLE	185493-003	015	829190	12.33	1466990	13.64	1274975	18.31	585045	21.15
SAMPLE	185496-004	016	786610	12.34	1539418	13.66	1265516	18.31	526277	21.16
SAMPLE	185499-004	017	823108	12.33	1521446	13.65	1253010	18.31	554284	21.15
SAMPLE	185479-038	018	801655	12.33	1471820	13.65	1190277	18.31	544105	21.15
SAMPLE	185448-002	019	806312	12.33	1504316	13.65	1240287	18.31	564540	21.16
SAMPLE	185479-048	020	801114	12.33	1472470	13.65	1228726	18.31	547785	21.15
SAMPLE	185479-049	021	779303	12.33	1479592	13.65	1222061	18.31	526272	21.14
SAMPLE	185493-004	022	784479	12.33	1441147	13.65	1196435	18.31	539033	21.14
SAMPLE	185499-001	023	777464	12.33	1430191	13.64	1222573	18.31	528121	21.15
SAMPLE	185499-002	024	772554	12.32	1458387	13.64	1187633	18.31	534714	21.15
SAMPLE	185499-003	025	783507	12.33	1454834	13.65	1222164	18.31	531047	21.15

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 14-MAR-2006
Sequence: 466105552 (gce)
Instrument ID: MSVOA07

ICAL Filename: gc814
Date Analyzed: 08-MAR-2006
Time Analyzed: 16:38

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	542122	10.13	912316	11.28	888382	15.38	555422	18.10
LOWER LIMIT	271061	9.63	456158	10.78	444191	14.88	277711	17.60
UPPER LIMIT	1084244	10.63	1824632	11.78	1776764	15.88	1110844	18.60

TYPE	SAMPLE	#								
CCV	30 PPB	003	594478	10.13	1018036	11.28	953194	15.38	578951	18.10
CCV	30 PPB	006	622454	10.13	1064648	11.28	1007908	15.38	607186	18.10
CCV/LCS	QC331358	013	555010	10.13	955030	11.28	877957	15.38	492256	18.10
BLANK	QC331359	015	496739	10.13	899252	11.28	821392	15.38	437197	18.10
SAMPLE	185427-005	016	493254	10.13	866700	11.28	793414	15.38	426957	18.10
SAMPLE	185429-003	017	463289	10.13	830422	11.28	767039	15.38	406433	18.10
SAMPLE	185457-007	018	438463	10.13	805530	11.28	742669	15.38	401456	18.10
SAMPLE	185442-002	019	440567	10.13	795413	11.28	733810	15.38	392690	18.10
SAMPLE	185489-001	020	431055	10.13	779388	11.28	724126	15.38	384400	18.10
SAMPLE	185489-002	021	423724	10.13	756381	11.28	708788	15.38	376252	18.10
SAMPLE	185489-003	022	393371	10.13	743690	11.28	686547	15.38	373826	18.10
MSS	185489-004	023	402293	10.13	733124	11.28	683510	15.38	367273	18.10
SAMPLE	185489-005	024	394833	10.13	720308	11.28	672544	15.38	360278	18.10
SAMPLE	185489-006	025	379583	10.13	702772	11.28	653876	15.38	354675	18.10
SAMPLE	185489-007	026	360818	10.13	684844	11.28	638466	15.38	350045	18.10
SAMPLE	185492-026	027	358444	10.13	681655	11.28	632461	15.38	355882	18.10
SAMPLE	185492-027	028	348083	10.13	674745	11.28	622729	15.38	348019	18.10
SAMPLE	185492-028	029	339236	10.13	647325	11.28	607429	15.38	341941	18.10
SAMPLE	185492-029	030	363892	10.13	679126	11.28	626806	15.38	362038	18.10
SAMPLE	185492-047	031	355033	10.13	674809	11.28	626437	15.38	349730	18.10
SAMPLE	185492-048	032	345763	10.13	665268	11.28	620883	15.38	347635	18.10
MS	QC331424	033	419607	10.13	722374	11.28	686393	15.38	422004	18.10
MSD	QC331425	034	442503	10.13	761794	11.28	723165	15.38	434301	18.10

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 14-MAR-2006
Sequence: 476105558 (hce)
Instrument ID: MSVOA08

ICAL Filename: hb115
Date Analyzed: 01-FEB-2006
Time Analyzed: 19:01

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	1400499	10.48	2944215	11.61	2503542	15.61	1111278	18.34
LOWER LIMIT	700250	9.98	1472108	11.11	1251771	15.11	555639	17.84
UPPER LIMIT	2800998	10.98	5888430	12.11	5007084	16.11	2222556	18.84

TYPE	SAMPLE	#								
CCV	30 PPB	003	1172954	10.48	2497407	11.61	2136791	15.61	905690	18.33
BS	QC331345	004	1227568	10.48	2581062	11.61	2167211	15.62	919314	18.33
BSD	QC331346	005	1221433	10.48	2575296	11.61	2173563	15.62	925915	18.33
CCV	30 PPB	007	1249362	10.48	2567888	11.61	2209219	15.61	936387	18.33
BLANK	QC331347	009	1214532	10.48	2596302	11.61	2193863	15.62	896617	18.34
SAMPLE	185457-011	010	1187067	10.47	2499197	11.61	2097989	15.62	857523	18.33
SAMPLE	185457-012	011	1204474	10.47	2523090	11.62	2150659	15.61	863929	18.33
SAMPLE	185486-002	012	1163609	10.48	2505930	11.61	2103456	15.61	850499	18.34
SAMPLE	185486-004	013	1141487	10.48	2448820	11.61	2079657	15.62	830133	18.33
SAMPLE	185479-061	014	1117874	10.48	2438569	11.61	2047661	15.62	808900	18.33
SAMPLE	185479-060	015	1109975	10.48	2408585	11.61	2011406	15.62	790527	18.33
SAMPLE	185479-059	016	1079904	10.48	2391094	11.61	1990783	15.62	793489	18.33
SAMPLE	185479-058	017	1077376	10.48	2343182	11.61	1959197	15.61	770159	18.34
SAMPLE	185479-055	018	1074575	10.48	2351379	11.61	1973785	15.61	781862	18.33
SAMPLE	185479-050	019	1028973	10.48	2277564	11.61	1932211	15.62	746186	18.33
SAMPLE	185479-051	020	1037599	10.48	2289493	11.61	1954495	15.62	761327	18.33
SAMPLE	185479-052	021	1023022	10.48	2256056	11.61	1882308	15.62	742889	18.33
SAMPLE	185479-053	022	1000975	10.48	2195737	11.61	1831487	15.61	725504	18.34
SAMPLE	185479-054	023	1025670	10.48	2268187	11.61	1887830	15.61	740892	18.34
SAMPLE	185479-056	024	1023358	10.48	2255004	11.61	1907003	15.61	741227	18.34
SAMPLE	185479-057	025	991676	10.48	2187854	11.61	1827668	15.62	717813	18.33

ICAL

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 476046588 Instrument: MSVOA08 HP GCMS VOA 08 Begun: 01-FEB-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	hb101	X	IB			01-FEB-2006 08:28	1.0					1	
002	hb102	X	LOW			01-FEB-2006 09:10	1.0					1	
003	hb103	X	LOW			01-FEB-2006 09:47	1.0					1	
004	hb104	TUN	BFB			01-FEB-2006 10:30	1.0					2	
005	hb105	TUN	BFB			01-FEB-2006 11:01	1.0					2	
006	hb106	TUN	BFB			01-FEB-2006 11:21	1.0					2	
007	hb107	TUN	BFB			01-FEB-2006 14:11	1.0					2	
008	hb108	X	IB			01-FEB-2006 14:43	1.0					1	
009	hb109	X	CALIB IB			01-FEB-2006 15:20	1.0					1	
010	hb110	ICAL	1.0/0.5 PPB			01-FEB-2006 15:57	1.0					3 4 5 1	
011	hb111	ICAL	2 PPB			01-FEB-2006 16:34	1.0					3 4 5 1	
012	hb112	ICAL	5 PPB			01-FEB-2006 17:10	1.0					3 4 5 1	
013	hb113	ICAL	10 PPB			01-FEB-2006 17:47	1.0					3 4 5 1	
014	hb114	ICAL	20 PPB			01-FEB-2006 18:24	1.0					3 4 5 1	
015	hb115	ICAL	50 PPB			01-FEB-2006 19:01	1.0					3 4 5 1	363
016	hb116	ICAL	75 PPB			01-FEB-2006 19:39	1.0					3 4 5 1	
017	hb117	ICAL	100 PPB			01-FEB-2006 20:16	1.0					3 4 5 1	
018	hb118	ICV				01-FEB-2006 20:53	1.0	1	5000			6 1	
019	hb119	ICV				01-FEB-2006 21:30	1.0	1	5000			7 8 1	
020	hb120	X	IB			01-FEB-2006 22:07	1.0					1	
021	hb121	X	IB			01-FEB-2006 22:44	1.0					1	

tuning mass spec

ICAL-OK

ICV-Freon 12, Cyclohexanone (USAE Chloromethane)

Stds used: 1=S2284 2=S2327 3=S2349 4=S2552 5=S2028 6=S2606 7=S2436 8=S2616

Analyst: LW Date: 2-2-06

2/2/06

ICAL

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 466096970 Instrument: MSVOA07 HP GCMS VOA 07 Begun: 08-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	gc801	X	IB			08-MAR-2006 08:10	1.0					1	
002	gc802	X	IB			08-MAR-2006 10:30	1.0					1	
003	gc803	X	LOW			08-MAR-2006 11:01	1.0					1	
004	gc804	X	LOW			08-MAR-2006 11:32	1.0					1	
005	gc805	TUN	BFB			08-MAR-2006 12:01	1.0					2	
006	gc806	X	IB			08-MAR-2006 12:30	1.0					1	
007	gc807	X	CALIB IB			08-MAR-2006 13:01	1.0					1	
008	gc808	ICAL	0.5/0.25 PPB			08-MAR-2006 13:32	1.0					3 4 5 1	
009	gc809	ICAL	1.0/0.5 PPB			08-MAR-2006 14:03	1.0					3 4 5 1	
010	gc810	ICAL	2 PPB			08-MAR-2006 14:34	1.0					3 4 5 1	
011	gc811	ICAL	5 PPB			08-MAR-2006 15:05	1.0					3 4 5 1	
012	gc812	ICAL	10 PPB			08-MAR-2006 15:36	1.0					3 4 5 1	
013	gc813	ICAL	20 PPB			08-MAR-2006 16:07	1.0					3 4 5 1	
014	gc814	ICAL	50 PPB			08-MAR-2006 16:38	1.0					3 4 5 1	
015	gc815	ICAL	75 PPB			08-MAR-2006 17:09	1.0					3 4 5 1	364
016	gc816	ICAL	100 PPB			08-MAR-2006 17:40	1.0					3 4 5 1	
017	gc817	ICV				08-MAR-2006 18:11	1.0		5000			6 1	
018	gc818	ICV				08-MAR-2006 18:42	1.0	1	5000			7 8 1	
019	gc819	X	IB			08-MAR-2006 19:13	1.0					1	
020	gc820	X	IB			08-MAR-2006 19:44	1.0					1	

ICAL-OK ICV - Cyclohexanone ↓ (USACE Freon 12 ↓, TCFM ↓, CDS ↓)

Stds used: 1=S2707 2=S2327 3=S2844 4=S2783 5=S2410 6=S2807 7=S2829 8=S2616

Analyst: LW Date: 3-9-06

03/09/06

8260/6A SOX w ICAL

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 456098395 Instrument: MSVOA06 HP GCMS VOA 06 Begun: 09-MAR-2006

Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	fc901	X	IB			09-MAR-2006 07:55	1.0						1	
002	fc902	TUN	BFB			09-MAR-2006 08:30	1.0						2	
003	fc903	CCV	25PPB			09-MAR-2006 08:47	1.0			5000			3 4 1	
004	fc904	BS	QC330702	111122	Soil	09-MAR-2006 09:36	1.0			5000			5 6 7 1	
005	fc905	BSD	QC330703	111122	Soil	09-MAR-2006 10:10	1.0			5000			5 6 7 1	
006	fc906	X	IB			09-MAR-2006 10:45	1.0						1	
007	fc907	BLANK	QC330704	111122	Soil	09-MAR-2006 11:28	1.0		1	5000			1	
008	fc908	MSS	185333-015	111122	Soil	09-MAR-2006 12:03	5.0	1	1	5000	A		1	1:ACE=135.352
009	fc909	MS	QC330769	111122	Soil	09-MAR-2006 12:38	5.0		1	5000			5 6 7 1	1:ACE=169.810
010	fc910	MSD	QC330770	111122	Soil	09-MAR-2006 13:13	5.0			5000			5 6 7 1	1:ACE=167.878
011	fc911	TUN	BFB			09-MAR-2006 13:59	1.0						2	
012	fc912	X	IB			09-MAR-2006 14:32	1.0						1	
013	fc913	X	IB			09-MAR-2006 15:06	1.0						1	
014	fc914	X	CALIB IB			09-MAR-2006 15:42	1.0						1	
015	fc915	ICAL	0.25/0.5PPB			09-MAR-2006 16:16	1.0						4 3 8 1	365
016	fc916	ICAL	0.5/1PPB			09-MAR-2006 16:52	1.0						4 3 8 1	
017	fc917	ICAL	2PPB			09-MAR-2006 17:27	1.0						4 3 8 1	
018	fc918	ICAL	5PPB			09-MAR-2006 18:02	1.0						4 3 8 1	
019	fc919	ICAL	10PPB			09-MAR-2006 18:37	1.0						4 3 8 1	
020	fc920	ICAL	20PPB			09-MAR-2006 19:12	1.0						4 3 8 1	
021	fc921	ICAL	50PPB			09-MAR-2006 19:47	1.0						4 3 8 1	
022	fc922	ICAL	75PPB			09-MAR-2006 20:21	1.0						4 3 8 1	
023	fc923	ICAL	100PPB			09-MAR-2006 20:56	1.0						4 3 8 1	
024	fc924	ICV	25PPB			09-MAR-2006 21:30	1.0			5000			6 1	
025	fc925	ICV	25PPB			09-MAR-2006 22:05	1.0			5000			5 7 1	
026	fc926	X	IB			09-MAR-2006 22:39	1.0						1	
027	fc927	X	IB			09-MAR-2006 23:14	1.0						1	
028	fc928	X	IB			09-MAR-2006 23:48	1.0						1	

* ICAL - 2CCLEVE fails 20 RSD
* ICV - OK, USACE - sec-butbenz ↑, n-butbenz ↑, Hexlbenz ↑

Stds used: 1=S2740 2=S2327 3=S2844 4=S2783 5=S2829 6=S2807 7=S2616 8=S2410

Analyst: [illegible] Date: 3/10/06

93/13/06

15-17, 19, 20

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 456104161 Instrument: MSVOA06 HP GCMS VOA 06 Begun: 13-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	fcd01	X	IB			13-MAR-2006 08:01	1.0						1	
002	fcd02	TUN	BFB			13-MAR-2006 08:31	1.0						2	
003	fcd03	CCV	20PPB			13-MAR-2006 08:51	1.0	1		5000			3 4 5 1	
004	fcd04	BS	QC331157	111228	Water	13-MAR-2006 09:40	1.0	1	3	5000			6 7 8 1	
005	fcd05	BSD	QC331158	111228	Water	13-MAR-2006 10:15	1.0	1		5000			6 7 8 1	
006	fcd06	X	IB			13-MAR-2006 11:26	1.0						1	
007	fcd07	BLANK	QC331159	111228	Water	13-MAR-2006 12:01	1.0	1	1	5000			1	
008	fcd08	SAMPLE	185457-015	111228	Water	13-MAR-2006 12:37	1.0			5000	B	<2	1	
009	fcd09	MSS	185457-016	111228	Water	13-MAR-2006 13:12	1.0	1	1	5000	C		1	
010	fcd10	SAMPLE	185457-017	111228	Water	13-MAR-2006 13:47	1.0			5000	B		1	
011	fcd11	MSS	185457-020	111228	Water	13-MAR-2006 14:22	2.0	1	1	5000	C		1	
012	fcd12	SAMPLE	185479-035	111228	Water	13-MAR-2006 14:57	1.0			5000	A		1	
013	fcd13	SAMPLE	185479-037	111228	Water	13-MAR-2006 15:32	1.0			5000	↓		1	
014	fcd14	SAMPLE	185457-019	111228	Water	13-MAR-2006 16:08	1.0			5000	B		1 m 2.5x 1:DCE12C=163.817	
015	fcd15	SAMPLE	185479-036	111228	Water	13-MAR-2006 16:43	25.0			5000	A		1	366
016	fcd16	SAMPLE	185479-038	111228	Water	13-MAR-2006 17:18	62.50			5000	↓		1 m 8.25x 10.0.	
017	fcd17	MS	QC331182	111228	Water	13-MAR-2006 17:53	1.0	1	2	5000	DEF		1 6 7 8	
018	fcd18	MSD	QC331183	111228	Water	13-MAR-2006 18:28	1.0	1	1	5000	↓		1 6 7 8	
019	fcd19	MS	QC331184	111228	Water	13-MAR-2006 19:03	2.0	1		5000	CD		1 6 7 8	
020	fcd20	MSD	QC331185	111228	Water	13-MAR-2006 19:38	2.0	1	1	5000	↓		1 6 7 8	
021	fcd21	X	IB			13-MAR-2006 20:14	1.0						1	
022	fcd22	X	IB			13-MAR-2006 20:49	1.0						1	
023	fcd23	X	IB			13-MAR-2006 21:24	1.0						1	

Stds used: 1=S2740 2=S2327 3=S2844 4=S2783 5=S2410 6=S2902 7=S2807 8=S2616

Analyst: [illegible] Date: 3/14/06

1,2,5,6,8,9,10,13

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 466104223 Instrument: MSVOA07 HP GCMS VOA 07 Begun: 13-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	gcd01	X	IB			13-MAR-2006 09:03	1.0						1	
002	gcd02	TUN	BFB			13-MAR-2006 09:32	1.0						2	
003	gcd03	CCV	20 PPB			13-MAR-2006 09:48	1.0			5000			3 4 5 1	
004	gcd04	BS	QC331166	111231	Water	13-MAR-2006 10:31	1.0	1	4	5000			6 7 8 1 spk	
005	gcd05	BSD	QC331167	111231	Water	13-MAR-2006 11:02	1.0	1		5000			6 7 8 1	
006	gcd06	X	IB			13-MAR-2006 11:33	1.0						1	
007	gcd07	BLANK	QC331168	111231	Water	13-MAR-2006 12:04	1.0	1	1	5000			1 s-Butylbenzene 0.77 n-Butylbenzene 0.84 Naphthalene 0.5	
008	gcd08	SAMPLE	185457-001	111231	Water	13-MAR-2006 12:35	1.0			5000	C	<2	1	
009	gcd09	SAMPLE	185457-002	111231	Water	13-MAR-2006 13:06	1.0			5000			1	
010	gcd10	SAMPLE	185457-005	111231	Water	13-MAR-2006 13:38	1.0			5000			1	
011	gcd11	SAMPLE	185457-006	111231	Water	13-MAR-2006 14:08	1.0			5000			1	
012	gcd12	SAMPLE	185457-008	111231	Water	13-MAR-2006 14:40	1.0			5000			1	
013	gcd13	MSS	185457-009	111231	Water	13-MAR-2006 15:11	1.0		1	5000			1	
014	gcd14	SAMPLE	185457-010	111231	Water	13-MAR-2006 15:42	1.0			5000	B		1	
015	gcd15	SAMPLE	185457-013	111231	Water	13-MAR-2006 16:13	1.0			5000			1	367
016	gcd16	SAMPLE	185428-003	111231	Water	13-MAR-2006 16:44	2.0			5000			1	
017	gcd17	SAMPLE	185428-004	111231	Water	13-MAR-2006 17:15	2.0			5000			1	
018	gcd18	SAMPLE	185429-003	111231	Water	13-MAR-2006 17:46	33.33			5000			1 RRC20x	
019	gcd19	SAMPLE	185429-004	111231	Water	13-MAR-2006 18:17	25.0			5000			1	
020	gcd20	SAMPLE	185457-007	111231	Water	13-MAR-2006 18:48	3.333			5000	C		1 RRC1x	
021	gcd21	SAMPLE	185457-011	111231	Water	13-MAR-2006 19:19	62.50			5000	B		1 RRC62.5x √o-Xylene	
022	gcd22	SAMPLE	185457-012	111231	Water	13-MAR-2006 19:50	62.50			5000	C		1 RRC62.5x √o-Xylene	
023	gcd23	MS	QC331186	111231	Water	13-MAR-2006 20:21	1.0	1	1	5000	DEF		1 6 7 8	
024	gcd24	MSD	QC331187	111231	Water	13-MAR-2006 20:53	1.0	1	1	5000	DEF		1 6 7 8	
025	gcd25	X	IB			13-MAR-2006 21:24	1.0						1	
026	gcd26	X	IB			13-MAR-2006 21:55	1.0						1	
027	gcd27	X	IB			13-MAR-2006 22:26	1.0						1	

BS: Ethylbenzene↑, Propylbenzene↑, 2-Chlorotoluene↑, 4-Chlorotoluene↑

Stds used: 1=S2707 2=S2327 3=S2844 4=S2783 5=S2410 6=S2902 7=S2807 8=S2616
Flags used: spk=5% spike rule

Analyst: LW Date: 3-14-06

03/14/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 456105598 Instrument: MSVOA06 HP GCMS VOA 06 Begun: 14-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	fce01	X	IB			14-MAR-2006 07:58	1.0						1	not used
002	fce02	X	BFB			14-MAR-2006 08:28	1.0	1					2 t	
003	fce03	X	BFB			14-MAR-2006 09:03	1.0						2	
004	fce04	X	25PPB			14-MAR-2006 09:24	1.0	81		5000			3 4 5 1 t cc-	
005	fce05	TUN	BFB			14-MAR-2006 10:08	1.0						2	
006	fce06	CCV	25PPB			14-MAR-2006 10:27	1.0	2		5000			3 4 5 1	
007	fce07	BS	QC331363	111274	Water	14-MAR-2006 11:16	1.0	2	1	5000			6 7 8 1	
008	fce08	BSD	QC331364	111274	Water	14-MAR-2006 11:52	1.0	2		5000			6 7 8 1	
009	fce09	X	IB			14-MAR-2006 12:27	1.0						1	
010	fce10	BLANK	QC331365	111274	Water	14-MAR-2006 13:02	1.0	1	1	5000			1	
011	fce11	SAMPLE	185457-019	111274	Water	14-MAR-2006 13:39	2.500			5000	P	<2	1	
012	fce12	SAMPLE	185401-013	111274	Water	14-MAR-2006 14:13	62.50			5000	C		1	
013	fce13	SAMPLE	185493-001	111274	Water	14-MAR-2006 14:48	1.0			5000	B		1	
014	fce14	SAMPLE	185493-002	111274	Water	14-MAR-2006 15:24	1.0			5000			1	
015	fce15	SAMPLE	185493-003	111274	Water	14-MAR-2006 15:58	1.0			5000			1	
016	fce16	SAMPLE	185496-004	111274	Water	14-MAR-2006 16:33	1.0			5000	A		1 pH = 8	
017	fce17	SAMPLE	185499-004	111274	Water	14-MAR-2006 17:08	1.0	1		5000		7	~~1~~ rn 2x	1:PCE=125.188
018	fce18	SAMPLE	185479-038	111274	Water	14-MAR-2006 17:43	8.333			5000		<2	1	
019	fce19	SAMPLE	185448-002	111274	Water	14-MAR-2006 18:18	625.0			5000	C		1 rn 625x, neat	
020	fce20	SAMPLE	185479-048	111274	Water	14-MAR-2006 18:53	2.500			5000	A		1	
021	fce21	SAMPLE	185479-049	111274	Water	14-MAR-2006 19:28	20.0			5000	B		1	
022	fce22	SAMPLE	185493-004	111274	Water	14-MAR-2006 20:03	2.0			5000			1 rn 10, o.p.	
023	fce23	SAMPLE	185499-001	111274	Water	14-MAR-2006 20:38	7.143			5000			1 rn 4x, o.p.	
024	fce24	SAMPLE	185499-002	111274	Water	14-MAR-2006 21:14	6.25			5000		7	1	
025	fce25	SAMPLE	185499-003	111274	Water	14-MAR-2006 21:49	7.143	1		5000			1 rn 12.5x	1:PCE=100.151
026	fce26	X	IB			14-MAR-2006 22:24	1.0						1	
027	fce27	X	IB			14-MAR-2006 22:58	1.0						1	
028	fce28	X	IB			14-MAR-2006 23:33	1.0						1	

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Stds used: 1=S2740 2=S2327 3=S2844 4=S2783 5=S2410 6=S2902 7=S2616 8=S2907
Flags used: -=low bias cc=CCV CCC failure t=tune failure

mar 3/15/06

Analyst: Rob Date: 3/15/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

7

Sequence: 466105552 Instrument: MSVOA07 HP GCMS VOA 07 Begun: 14-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	gce01	X	IB			14-MAR-2006 07:12	1.0						1	
002	gce02	TUN	BFB			14-MAR-2006 07:44	1.0						2	not Used
003	gce03	CCV	30 PPB → Adj. tune			14-MAR-2006 08:11	1.0	1		5000			3 4 5 1 cc+	
004	gce04	TUN	BFB			14-MAR-2006 08:42	1.0	1					2 t	
005	gce05	TUN	BFB			14-MAR-2006 08:54	1.0						2	
006	gce06	CCV	30 PPB			14-MAR-2006 09:20	1.0	1		5000			3 4 5 1 cc+	
007	gce07	TUN	BFB → Adj. tune			14-MAR-2006 09:48	1.0	1					2 t	
008	gce08	TUN	BFB			14-MAR-2006 10:05	1.0						2	
009	gce09	X	QC331358	111272	Water	14-MAR-2006 10:30	1.0	3	1	5000			6 7 8 1 cc+	
010	gce10	TUN	BFB			14-MAR-2006 10:58	1.0						2	
011	gce11	X	QC331358	111272	Water	14-MAR-2006 11:23	1.0	4	3	5000			6 7 8 1 cc+	
012	gce12	TUN	BFB → Adj. tune			14-MAR-2006 11:57	1.0						2	
013	gce13	CCV/LCS	QC331358	111272	Water	14-MAR-2006 12:25	1.0	1		5000			6 7 8 1	
014	gce14	X	IB			14-MAR-2006 13:08	1.0						1	
015	gce15	BLANK	QC331359	111272	Water	14-MAR-2006 13:39	1.0		1	5000			1 n-Butylbenzene 0.85 Naph @ 0.89	
016	gce16	SAMPLE	185427-005	111272	Water	14-MAR-2006 14:10	2.500			5000	B	<2	1	
017	gce17	SAMPLE	185429-003	111272	Water	14-MAR-2006 14:41	20.0			5000	B		1 ~2ml HS	
018	gce18	SAMPLE	185457-007	111272	Water	14-MAR-2006 15:12	1.0			5000	E		1	
019	gce19	SAMPLE	185442-002	111272	Water	14-MAR-2006 15:43	10.0			5000	C		1	
020	gce20	SAMPLE	185489-001	111272	Water	14-MAR-2006 16:14	8.333			5000	B		1	
021	gce21	SAMPLE	185489-002	111272	Water	14-MAR-2006 16:45	3.333			5000			1	
022	gce22	SAMPLE	185489-003	111272	Water	14-MAR-2006 17:16	1.0			5000			1	
023	gce23	MSS	185489-004	111272	Water	14-MAR-2006 17:47	5.0		1	5000			1	
024	gce24	SAMPLE	185489-005	111272	Water	14-MAR-2006 18:18	7.143			5000			1	
025	gce25	SAMPLE	185489-006	111272	Water	14-MAR-2006 18:50	1.429			5000			1	
026	gce26	SAMPLE	185489-007	111272	Water	14-MAR-2006 19:21	1.0			5000			1	
027	gce27	SAMPLE	185492-026	111272	Water	14-MAR-2006 19:52	1.0			5000		<2	1 RR 2/x ✓MTBE	
028	gce28	SAMPLE	185492-027	111272	Water	14-MAR-2006 20:23	1.0			5000			1	
029	gce29	SAMPLE	185492-028	111272	Water	14-MAR-2006 20:54	1.0			5000			1	
030	gce30	SAMPLE	185492-029	111272	Water	14-MAR-2006 21:26	1.0			5000	C		1 ✓curves	

Stds used: 1=S2707 2=S2327 3=S2844 4=S2783 5=S2410 6=S2616 7=S2807 8=S2902
Flags used: +=high bias cc=CCV CCC failure t=tune failure

Analyst: LW Date: 3-15-06

3/15/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 466105552 Instrument: MSVOA07 HP GCMS VOA 07 Begun: 14-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
031	gce31	SAMPLE	185492-047	111272	Water	14-MAR-2006 21:57	1.0			5000	A	2	1	
032	gce32	SAMPLE	185492-048	111272	Water	14-MAR-2006 22:28	1.0			5000	B	2	1 Rec/x √ styrene	
033	gce33	MS	QC331424	111272	Water	14-MAR-2006 22:59	5.0	2		5000		7	1 6 7 8	1:TCE=102.890
034	gce34	MSD	QC331425	111272	Water	14-MAR-2006 23:30	5.0	1	1	5000		7	1 6 7 8	
035	gce35	X	IB			15-MAR-2006 00:01	1.0						1	
036	gce36	X	IB			15-MAR-2006 00:32	1.0						1	
037	gce37	X	IB			15-MAR-2006 01:03	1.0						1	

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Stds used: 1=S2707 2=S2327 3=S2844 4=S2783 5=S2410 6=S2616 7=S2807 8=S2902
Flags used: +=high bias cc=CCV CCC failure t=tune failure

Analyst: LW Date: 3-15-06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

11, 12

Sequence: 476105558 Instrument: MSVOA08 HP GCMS VOA 08 Begun: 14-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	hce01	X	IB			14-MAR-2006 07:18	1.0						1	
002	hce02	TUN	BFB			14-MAR-2006 07:50	1.0						2	
003	hce03	CCV	30 PPB			14-MAR-2006 08:18	1.0			5000			3 4 5 1	
004	hce04	BS	QC331345	111270	Water	14-MAR-2006 09:03	1.0	2		5000			6 7 8 1	
005	hce05	BSD	QC331346	111270	Water	14-MAR-2006 09:40	1.0	2		5000			6 7 8 1	
006	hce06	TUN	BFB			14-MAR-2006 10:10	1.0						2	
007	hce07	CCV	30 PPB			14-MAR-2006 10:40	1.0			5000			3 4 5 1	
008	hce08	X	IB			14-MAR-2006 11:24	1.0						1	
009	hce09	BLANK	QC331347	111270	Water	14-MAR-2006 12:01	1.0		1	5000			1	
010	hce10	SAMPLE	185457-011	111270	Water	14-MAR-2006 12:38	62.50			5000	C	12	1	
011	hce11	SAMPLE	185457-012	111270	Water	14-MAR-2006 13:15	62.50			5000	F		1	
012	hce12	SAMPLE	185486-002	111270	Water	14-MAR-2006 13:52	1.0			5000	B		1	
013	hce13	SAMPLE	185486-004	111270	Water	14-MAR-2006 14:29	1.0			5000	B		1	
014	hce14	SAMPLE	185479-061	111270	Water	14-MAR-2006 15:06	1.0			5000	A		1	
015	hce15	SAMPLE	185479-060	111270	Water	14-MAR-2006 15:43	1.0			5000			1	
016	hce16	SAMPLE	185479-059	111270	Water	14-MAR-2006 16:20	1.0			5000			1	
017	hce17	SAMPLE	185479-058	111270	Water	14-MAR-2006 16:57	1.0			5000	B		1 RRe/x ✓ Freon 12	
018	hce18	SAMPLE	185479-055	111270	Water	14-MAR-2006 17:34	1.0			5000	B		1	
019	hce19	SAMPLE	185479-050	111270	Water	14-MAR-2006 18:11	333.3			5000	A		1 RRe/67x	
020	hce20	SAMPLE	185479-051	111270	Water	14-MAR-2006 18:49	1.429			5000	A		1	
021	hce21	SAMPLE	185479-052	111270	Water	14-MAR-2006 19:26	625.0			5000	B		1	
022	hce22	SAMPLE	185479-053	111270	Water	14-MAR-2006 20:03	250.0			5000			1	
023	hce23	SAMPLE	185479-054	111270	Water	14-MAR-2006 20:40	1.429			5000			1	
024	hce24	SAMPLE	185479-056	111270	Water	14-MAR-2006 21:17	1.667			5000	A		1 RRe/x	
025	hce25	SAMPLE	185479-057	111270	Water	14-MAR-2006 21:54	1.667			5000	B		1 RRe/x	
026	hce26	X	IB			14-MAR-2006 22:31	1.0						1	
027	hce27	X	IB			14-MAR-2006 23:08	1.0						1	
028	hce28	X	IB			14-MAR-2006 23:45	1.0						1	

371

Stds used: 1=S2707 2=S2327 3=S2844 4=S2783 5=S2410 6=S2616 7=S2807 8=S2902

Analyst: LW Date: 3-15-06 3/15/06

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185457 8260 Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CVBCADMCMDVDMDTTCDBTDBMDBDTHPDCEXXTSTPDDBB	LCRLCCTDTCACECCCTCZCCDICZCCXCBLBYYOTBCBCZR	M EAA 1N E1 1 1MMLL1 EPCBPMPAOECBZLLTYMAFAM4	E 1 3 2 AMK1E11 2 MZ MOX E M1EF	
185457-001	MSVOA07	03/13/06 12:35	1.0	|+|+|+\

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185457 8260 Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CLM	VRE	BMA	CEL	AC1	DCT	MLN	CTD	MEE	DCT	VCA	DEE	MCC	DCC	TLA	TCT	CCA	DCC	BZC	TCC	DCD	BIC	MZC	DCC	BCC	DZX	TCC	HXC	PBL	DCB	CEL	XBY	XYL	TOL	STY	TBE	PCM	DCA	DFM	BCA	BZM	4F
QC331184	MSVOA06	03/13/06 19:03	2.0						+|																+| +|				+|					+|								+| +| +| +|
QC331185	MSVOA06	03/13/06 19:38	2.0						+|																+| +|				+|					+|								+| +| +| +|
QC331166	MSVOA07	03/13/06 10:31	1.0	+	+	+	+

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 3/13/06
PREPPED BY.

111228

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
			B	<2	LV		6	TB	
1	185457-15		CDEF	<2				1x, MSS/MS/MSD	
2	-16		B					1x	
3	-17							1x	
4	-19		CD	<2				2x, MSS/MS/MSD	
5	-20		B					1x PUT OPIR	
6	185472-5								
7	-6								
8	-7								
9	-8		A		LV			TB	
0	-9							PUT OPIR	
1	185471-1								
2	-2							PUT OPIR	
3	185470-1		A	<2				1x	
14	185479-35			<2				25x	
15	-36							1x	
16	-37			<2				62.5x	
17	-38								
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
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PREPFORM.X

7/21/98

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 3/13/04

PREPPED BY.

111231

WATER

	SAMPLE NUM	AMT o/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	185428-3		B	<2			7	MS 2X, TCE OR	
2	-4							MS 2X, TCE OR	
3	185429-3							MS 33.3X, TCE OR	
4	-4							MS 25X, O.R.	
5	185472-5								
6	-6								
7	-7								
8	-8							MS	
9	-9								
10	185470-1								
11	185471-1								
12	-2		C	<2			7	1X	
13	185457-1							1X	
14	-2							1X	
15	-5							1X	
16	-6							3.3X	
17	-7			<2				1X	
18	-8							1X, MS5/MS/MSD	
19	-9		COEF	<2				1X	
20	-10		B					62.5X	
21	-11			<2				62.5X	
22	-12		C					1X	
23	-13		B	<2					
24									
25									
26									
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PREPFORM.3

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 3-14

PREPPED BY.

111272

111270

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
							10	6.25X VPCE	
1	185468-1		C	<2			1	20X	
2	185429-3		B	↓	2ml			1X	
3	185457-7		E	<2				2.5X VPCE	
4	185427-5		B	<2				8.3X	
5	185489-1		↓	7				3.3X	
6	-2		↓	↓				1X	
7	-3		↓	7				MS/MSD 5X	
8	-4	✓ 1ml 5M	BORE	7	↓			7.14X	
9	-5		B	↓				1.42X	
10	-6		↓	↓				1X	
11	-7		↓	7				10X	
12	185442-2		C	<2				1X	Put Off
13	185463-1		↓	—				1X	
14	185492-26		B	<2				↓	
15	-27		↓	↓			✓		
16	-28								
17	-29		C					TB	
18	-47		A				✓	FB	
19	-48		B	↓					
20							8	62.5X ro-xylene	
21	185457-11		C	<2				62.5X ro-xylene	
22	-12		F	↓				1X	
23	185486-2		B	<2				1X	
24	-4		↓	↓				333X	
25	185479-50		A	<2				1.42X	
26	-51		↓	↓				6.25X	
27	-52		B	<2				250X	
28	-53		↓	↓				1.42X	
29	-54		↓	↓				1X	
30	-55		↓	<2				1.6X	
31	-56		A	<2				~~1.42X~~ 1.6X	
32	-57		B	↓				1X	
33	-58		↓	<2			✓	1X	
34	-59		A	↓				1X	
35	-60		↓	↓	↓		✓	1X TB	
36	-61								
37									
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42									

PREPFORM.XLS

7/21/98

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 3/14/06

PREPPED BY.

11274

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	185457 -19 *		D	<2			6	RU 2.5x, CIS/12DCE + R	
2	185479 - 38		B	<2				RU 8.25x, O.D.	
3	185401 - 13 *		C	<2				RU 62.5x, 12DCE +	
4	185448 - 2							RU 625x, O.C.	
5	185479 -48		A	<2				2.5x	
6	-49		B					20x	
7	185496 - 4			8				1X	
8	185493 - 1			<2				1x	
9	-2								
10	-3			<2				2x	
11	-4							7.14X	
12	185499 -1			7				6.25X	
13	-2							7.14X	
14	-3			7				1X	
15	-4								
16									
17									
18									
19									
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PREPFORM.

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water
As of 04/06/06

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
1,1-Dichloroethene	ug/L	0.27	0.22	0.062	0.17	0.10	0.085	0.089
Benzene	ug/L	0.11	0.041	0.060	0.061	0.12	0.044	0.027
Trichloroethene	ug/L	0.21	0.076	0.18	0.17	0.11	0.072	0.087
Toluene	ug/L	0.083	0.083	0.12	0.092	0.062	0.063	0.053
Chlorobenzene	ug/L	0.10	0.090	0.11	0.16	0.16	0.079	0.050
Freon 12	ug/L	0.18	0.099	0.22	0.062	0.15	0.24	0.18
Chloromethane	ug/L	0.12	0.16	0.12	0.18	0.13	0.16	0.089
Vinyl Chloride	ug/L	0.19	0.23	0.10	0.066	0.10	0.17	0.16
Bromomethane	ug/L	0.29	0.30	0.31	0.13	0.31	0.23	0.20
Chloroethane	ug/L	0.33	0.33	0.15	0.16	0.13	0.16	0.12
Trichlorofluoromethane	ug/L	0.16	0.057	0.17	0.10	0.080	0.089	0.10
Acetone	ug/L	0.39	0.87	0.21	0.85	0.16	0.26	0.49
Freon 113	ug/L	0.062	0.12	0.13	0.25	0.071	0.20	0.091
Methylene Chloride	ug/L	0.15	0.21	0.11	0.12	0.16	0.099	0.22
MTBE	ug/L	0.069	0.074	0.065	0.045	0.040	0.051	0.052
Carbon Disulfide	ug/L	0.039	0.031	0.086	0.076	0.11	0.058	0.037
trans-1,2-Dichloroethene	ug/L	0.37	0.13	0.18	0.051	0.064	0.11	0.093
Vinyl Acetate	ug/L	0.076	0.36	0.084	0.99	0.40	0.080	0.10
1,1-Dichloroethane	ug/L	0.088	0.061	0.048	0.090	0.11	0.063	0.063
2-Butanone	ug/L	0.16	0.17	0.20	0.50	0.099	0.17	0.26
cis-1,2-Dichloroethene	ug/L	0.26	0.18	0.083	0.12	0.042	0.096	0.11
2,2-Dichloropropane	ug/L	0.093	0.17	0.077	0.12	0.066	0.084	0.083
Chloroform	ug/L	0.082	0.055	0.086	0.060	0.11	0.030	0.044
Bromochloromethane	ug/L	0.091	0.090	0.10	0.18	0.11	0.20	0.15
1,1,1-Trichloroethane	ug/L	0.084	0.066	0.14	0.11	0.061	0.045	0.041
1,1-Dichloropropene	ug/L	0.12	0.11	0.081	0.16	0.16	0.052	0.055
Carbon Tetrachloride	ug/L	0.089	0.11	0.098	0.17	0.15	0.095	0.056
1,2-Dichloroethane	ug/L	0.090	0.088	0.099	0.096	0.12	0.058	0.056
1,2-Dichloropropane	ug/L	0.093	0.060	0.079	0.071	0.14	0.072	0.12
Bromodichloromethane	ug/L	0.086	0.039	0.067	0.074	0.10	0.081	0.069
Dibromomethane	ug/L	0.16	0.061	0.092	0.16	0.11	0.065	0.13
4-Methyl-2-Pentanone	ug/L	0.044	0.076	0.057	0.20	0.13	0.092	0.25
cis-1,3-Dichloropropene	ug/L	0.068	0.065	0.056	0.20	0.16	0.042	0.044
trans-1,3-Dichloropropene	ug/L	0.074	0.074	0.044	0.073	0.14	0.071	0.060
1,1,2-Trichloroethane	ug/L	0.12	0.12	0.14	0.19	0.15	0.094	0.058
2-Hexanone	ug/L	0.043	0.31	0.047	0.34	0.11	0.13	0.14
1,3-Dichloropropane	ug/L	0.064	0.067	0.061	0.063	0.10	0.045	0.068
Tetrachloroethene	ug/L	0.13	0.14	0.12	0.22	0.14	0.090	0.093
Dibromochloromethane	ug/L	0.099	0.054	0.10	0.085	0.056	0.077	0.063
1,2-Dibromoethane	ug/L	0.16	0.061	0.10	0.073	0.11	0.053	0.070
2-Chloroethylvinylether	ug/L	0.093	0.18	0.24	0.17	0.14	0.20	0.23
1,1,1,2-Tetrachloroethane	ug/L	0.11	0.087	0.10	0.11	0.14	0.046	0.088
Ethylbenzene	ug/L	0.059	0.076	0.075	0.17	0.041	0.060	0.11
m,p-Xylenes	ug/L	0.24	0.22	0.14	0.27	0.17	0.13	0.20
o-Xylene	ug/L	0.10	0.058	0.092	0.11	0.16	0.11	0.13

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water
As of 04/06/06

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
Styrene	ug/L	0.12	0.092	0.098	0.085	0.16	0.075	0.061
Bromoform	ug/L	0.12	0.088	0.11	0.18	0.094	0.079	0.15
Isopropylbenzene	ug/L	0.12	0.059	0.090	0.18	0.059	0.053	0.10
1,1,2,2-Tetrachloroethane	ug/L	0.13	0.096	0.086	0.047	0.13	0.070	0.055
1,2,3-Trichloropropane	ug/L	0.31	0.28	0.074	0.11	0.17	0.20	0.16
Propylbenzene	ug/L	0.075	0.10	0.063	0.21	0.023	0.055	0.11
Bromobenzene	ug/L	0.12	0.12	0.10	0.19	0.12	0.073	0.085
1,3,5-Trimethylbenzene	ug/L	0.060	0.095	0.047	0.14	0.057	0.077	0.13
2-Chlorotoluene	ug/L	0.12	0.11	0.068	0.15	0.025	0.047	0.12
4-Chlorotoluene	ug/L	0.079	0.069	0.043	0.14	0.037	0.032	0.069
tert-Butylbenzene	ug/L	0.11	0.15	0.075	0.19	0.038	0.042	0.079
1,2,4-Trimethylbenzene	ug/L	0.091	0.088	0.066	0.12	0.069	0.077	0.10
sec-Butylbenzene	ug/L	0.11	0.12	0.062	0.17	0.088	0.041	0.076
para-Isopropyl Toluene	ug/L	0.058	0.12	0.12	0.14	0.056	0.055	0.045
1,3-Dichlorobenzene	ug/L	0.080	0.16	0.097	0.18	0.060	0.071	0.10
1,4-Dichlorobenzene	ug/L	0.068	0.14	0.095	0.18	0.038	0.092	0.17
n-Butylbenzene	ug/L	0.12	0.15	0.11	0.18	0.21	0.048	0.12
1,2-Dichlorobenzene	ug/L	0.072	0.14	0.080	0.14	0.16	0.068	0.061
1,2-Dibromo-3-Chloropropane	ug/L	0.39	0.25	0.21	0.22	0.13	0.26	0.098
1,2,4-Trichlorobenzene	ug/L	0.12	0.17	0.14	0.16	0.10	0.16	0.17
Hexachlorobutadiene	ug/L	0.19	0.19	0.29	0.21	0.11	0.24	0.25
Naphthalene	ug/L	0.12	0.13	0.060	0.10	0.091	0.20	0.16
1,2,3-Trichlorobenzene	ug/L	0.063	0.17	0.10	0.20	0.095	0.18	0.29
tert-Butyl Alcohol (TBA)	ug/L	1.3	1.6	0.83	2.5	1.3	0.94	1.3
Isopropyl Ether (DIPE)	ug/L	0.068	0.070	0.063	0.027	0.030	0.053	0.027
Ethyl tert-Butyl Ether (ETBE)	ug/L	0.089	0.045	0.024	0.20	0.033	0.075	0.034
Methyl tert-Amyl Ether (TAME)	ug/L	0.094	0.13	0.055	0.054	0.048	0.032	0.057
Isopropanol	ug/L	4.6	2.7	1.6	6.6	1.5	1.4	1.1
Ethanol	ug/L	55	22	23	50	11	7.9	36
Hexane	ug/L				0.33		0.15	
Cyclohexanone	ug/L	3.8	2.4	0.21	1.6	1.6	2.5	
Tetrahydrofuran	ug/L	0.64	1.2	1.1	0.79	1.4	1.7	3.5
Tetramethyl THF	ug/L	0.067	0.061	0.062	0.20	0.10	0.055	0.078
Gasoline C6-C10	ug/L		15		4.8	15	8.5	
Gasoline C7-C12	ug/L		18		2.4	13	7.7	
Dibromofluoromethane	ug/L	3.1	2.9	1.8	2.4	1.5		3.2
1,2-Dichloroethane-d4	ug/L	3.0	3.9		2.4	1.2		3.0
Toluene-d8	ug/L	1.7	3.8		1.1	1.0		1.1
Bromofluorobenzene	ug/L	2.5	2.6		1.2	1.2		1.5
Trifluorotoluene	ug/L	0.12	0.43	0.065	0.21	0.13		0.14

PESTICIDES

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	LF5GW103	Batch#:	111219
Lab ID:	185457-001	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/12/06
Diln Fac:	1.000	Analyzed:	03/13/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND #	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	72	65-135
Decachlorobiphenyl	92	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	LF5GW102	Batch#:	111219
Lab ID:	185457-002	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/12/06
Diln Fac:	1.000	Analyzed:	03/13/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND #	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	82	65-135
Decachlorobiphenyl	88	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	1349MW104	Batch#:	111219
Lab ID:	185457-005	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/12/06
Diln Fac:	1.000	Analyzed:	03/14/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	90	65-135
Decachlorobiphenyl	101	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	1349MW103	Batch#:	111219
Lab ID:	185457-006	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/12/06
Diln Fac:	1.000	Analyzed:	03/14/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	100	65-135
Decachlorobiphenyl	98	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	LF5GW101	Batch#:	111219
Lab ID:	185457-007	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/12/06
Diln Fac:	1.000	Analyzed:	03/14/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.09
4,4'-DDE	ND	0.09
Endrin	ND	0.09
Endosulfan II	ND	0.09
Endosulfan sulfate	ND	0.09
4,4'-DDD	ND	0.09
4,4'-DDT	ND	0.09
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.09
Toxaphene	ND	0.9

Surrogate	%REC	Limits
TCMX	110	65-135
Decachlorobiphenyl	118	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	LF5GW100	Batch#:	111219
Lab ID:	185457-008	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/12/06
Diln Fac:	1.000	Analyzed:	03/14/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	104	65-135
Decachlorobiphenyl	122	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	1349MW02	Batch#:	111300
Lab ID:	185457-016	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/14/06
Diln Fac:	1.000	Analyzed:	03/15/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND #	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	101	65-135
Decachlorobiphenyl	105	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331124	Batch#:	111219
Matrix:	Water	Prepared:	03/12/06
Units:	ug/L	Analyzed:	03/13/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND #	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	72	65-135
Decachlorobiphenyl	90	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331476	Batch#:	111300
Matrix:	Water	Prepared:	03/14/06
Units:	ug/L	Analyzed:	03/15/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND #	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	77	65-135
Decachlorobiphenyl	114	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331477	Batch#:	111300
Matrix:	Water	Prepared:	03/14/06
Units:	ug/L	Analyzed:	03/15/06

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	0.2000	0.1907	95	65-135
Heptachlor	0.2000	0.1719	86	65-135
Aldrin	0.2000	0.1363	68	65-135
Dieldrin	0.4000	0.4049	101	65-135
Endrin	0.4000	0.3782	95	65-135
4,4'-DDT	0.4000	0.3824 #	96	65-135

Surrogate	%REC	Limits
TCMX	73	65-135
Decachlorobiphenyl	115	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Matrix:	Water	Batch#:	111219
Units:	ug/L	Prepared:	03/12/06
Diln Fac:	1.000	Analyzed:	03/13/06

Type: BS Lab ID: QC331125

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	0.2000	0.1489	74	65-135
Heptachlor	0.2000	0.1504	75	65-135
Aldrin	0.2000	0.1567	78	65-135
Dieldrin	0.4000	0.3297	82	65-135
Endrin	0.4000	0.3542	89	65-135
4,4'-DDT	0.4000	0.3053 #	76	65-135

Surrogate	%REC	Limits
TCMX	70	65-135
Decachlorobiphenyl	95	65-135

Type: BSD Lab ID: QC331126

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	0.2000	0.1726	86	65-135	15	35
Heptachlor	0.2000	0.1674	84	65-135	11	35
Aldrin	0.2000	0.1749	87	65-135	11	35
Dieldrin	0.4000	0.3480	87	65-135	5	35
Endrin	0.4000	0.3627	91	65-135	2	35
4,4'-DDT	0.4000	0.3178 #	79	65-135	4	35

Surrogate	%REC	Limits
TCMX	81	65-135
Decachlorobiphenyl	96	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	DAESP03	Batch#:	111300
MSS Lab ID:	185408-008	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Prepared:	03/14/06
Diln Fac:	1.000	Analyzed:	03/15/06

Type: MS Lab ID: QC331478

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.006361	0.1961	0.1779	91	65-135
Heptachlor	<0.008136	0.1961	0.1918	98	65-135
Aldrin	<0.009193	0.1961	0.1767	90	65-135
Dieldrin	<0.01079	0.3922	0.3659	93	65-135
Endrin	<0.01193	0.3922	0.4181	107	65-135
4,4'-DDT	<0.01185	0.3922	0.3397 #	87	65-135

Surrogate	%REC	Limits
TCMX	92	65-135
Decachlorobiphenyl	102	65-135

Type: MSD Lab ID: QC331479

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	0.1961	0.1721	88	65-135	3	35
Heptachlor	0.1961	0.1749	89	65-135	9	35
Aldrin	0.1961	0.1675	85	65-135	5	35
Dieldrin	0.3922	0.3347	85	65-135	9	35
Endrin	0.3922	0.3870	99	65-135	8	35
4,4'-DDT	0.3922	0.3260 #	83	65-135	4	35

Surrogate	%REC	Limits
TCMX	88	65-135
Decachlorobiphenyl	92	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	1349MW02	Batch#:	111300
MSS Lab ID:	185457-016	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/14/06
Diln Fac:	1.000	Analyzed:	03/15/06

Type: MS Lab ID: QC331480

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.006299	0.1942	0.1858	96	65-135
Heptachlor	<0.008057	0.1942	0.1996	103	65-135
Aldrin	<0.009104	0.1942	0.1873	96	65-135
Dieldrin	<0.01069	0.3883	0.3745	96	65-135
Endrin	<0.01181	0.3883	0.4187	108	65-135
4,4'-DDT	<0.01174	0.3883	0.3482 #	90	65-135

Surrogate	%REC	Limits
TCMX	105	65-135
Decachlorobiphenyl	106	65-135

Type: MSD Lab ID: QC331481

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	0.1942	0.1851	95	65-135	0	35
Heptachlor	0.1942	0.1994	103	65-135	0	35
Aldrin	0.1942	0.1876	97	65-135	0	35
Dieldrin	0.3883	0.3699	95	65-135	1	35
Endrin	0.3883	0.4059	105	65-135	3	35
4,4'-DDT	0.3883	0.3008 #	77	65-135	15	35

Surrogate	%REC	Limits
TCMX	96	65-135
Decachlorobiphenyl	94	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185457 PEST Water: EPA 8081A

Inst : GC16
Calnum : 236100122001
Units : pg

Name : gc16pest069
Date : 10-MAR-2006 22:03
X Axis : R

Reviewer: MCH
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	069_020	236100122020	pest_1	10-MAR-2006 22:03	S2827
L2	069_021	236100122021	pest_2	10-MAR-2006 22:32	S2039
L3	069_022	236100122022	pest_3	10-MAR-2006 23:01	S2824
L4	069_023	236100122023	pest_4	10-MAR-2006 23:30	S2372
L5	069_024	236100122024	pest_5	10-MAR-2006 23:59	S2663
L6	069_025	236100122025	pest_6	11-MAR-2006 00:27	S2828
L7	069_026	236100122026	pest_7	11-MAR-2006 00:56	S2823

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
alpha-BHC	A	9122.5	9482.6	8604.3	10874	12263	14450	14361	AVRG		8.84E-5		11308	**22**	0.995	20	rsd ***
gamma-BHC	A	8909.5	9902.2	8552.1	11054	12441	13452	13207	AVRG		9.03E-5		11074	18	0.995	20	
beta-BHC	A	7375.5	7354.8	6177.8	6857.8	7437.2	7151.6	6688.9	AVRG		1.43E-4		7006.2	7	0.995	20	
delta-BHC	A	8057.5	8527.0	7119.8	9056.4	11092	11413	11978	AVRG		1.04E-4		9606.3	20	0.995	20	
Heptachlor	A	8049.0	10079	7604.9	9561.7	10298	10610	10131	AVRG		1.06E-4		9476.2	12	0.995	20	
Aldrin	A	9967.0	10354	9073.3	10632	11819	12031	11688	AVRG		9.26E-5		10795	10	0.995	20	394
Heptachlor epoxide	A	12416	12201	10939	11461	12678	11989	11065	AVRG		8.46E-5		11821	6	0.995	20	
gamma-Chlordane	A	12207	13159	11470	11939	13606	12651	12040	AVRG		8.04E-5		12439	6	0.995	20	
alpha-Chlordane	A	12044	12621	11301	12195	13862	12500	11805	AVRG		8.11E-5		12332	7	0.995	20	
4,4'-DDE	A	6866.8	7418.4	7055.1	8165.2	10136	9586.6	9625.2	AVRG		1.19E-4		8407.6	16	0.995	20	
Endosulfan I	A	13390	13641	12532	13026	14596	13256	12169	AVRG		7.56E-5		13230	6	0.995	20	
Dieldrin	A	9831.8	10441	9537.8	10601	12378	11089	10321	AVRG		9.43E-5		10600	9	0.995	20	
Endrin	A	7112.0	8472.9	6888.0	7630.5	9260.5	8491.6	7784.0	AVRG		1.26E-4		7948.5	11	0.995	20	
4,4'-DDD	A	5761.8	5819.1	6061.6	6300.0	8435.4	7890.3	7935.2	AVRG		1.45E-4		6886.2	17	0.995	20	
Endosulfan II	A	10109	10502	9825.6	10046	11824	10063	9206.1	AVRG		9.78E-5		10225	8	0.995	20	
4,4'-DDT	A	2659.3	4186.3	3070.9	4316.6	5309.7	5102.6	5658.0	AVRG		2.31E-4		4329.0	**26**	0.995	20	rsd ***
Methoxychlor	A	1713.9	2709.4	2208.5	2486.7	3088.5	2616.7	2472.5	AVRG		4.05E-4		2470.9	17	0.995	20	
Endosulfan sulfate	A	10800	11016	10048	9733.5	11458	9452.9	8594.2	AVRG		9.85E-5		10157	10	0.995	20	
Endrin ketone	A	9398.3	10172	10281	10338	12768	10610	9820.6	AVRG		9.54E-5		10484	10	0.995	20	
TCMX	A	11348	11903	11114	12087	12728	12887	11387	AVRG		8.39E-5		11922	6	0.995	20	
Decachlorobiphenyl	A	17242	16296	16369	13308	15535	12030	10154	AVRG		6.94E-5		14419	18	0.995	20	
alpha-BHC	B	127116	123801	108153	116516	121564	116989	104651	AVRG		8.55E-6		116970	7	0.995	20	
gamma-BHC	B	118183	120695	99372	109071	113733	104287	93050	AVRG		9.23E-6		108341	9	0.995	20	
beta-BHC	B	70195	66669	54219	54143	56403	49224	42784	AVRG		1.78E-5		56234	17	0.995	20	
delta-BHC	B	119615	117616	96729	105266	113469	100378	91950	AVRG		9.40E-6		106432	10	0.995	20	
Heptachlor	B	82169	90789	69424	77081	79925	74185	65435	AVRG		1.30E-5		77001	11	0.995	20	

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aldrin	B	106576	104931	87574	92342	97309	87656	78363	AVRG		1.07E-5		93536	11	0.995	20	
Heptachlor epoxide	B	107563	102269	88583	82304	88881	76451	65580	AVRG		1.14E-5		87376	17	0.995	20	
gamma-Chlordane	B	107591	103368	88053	86771	93803	82304	74846	AVRG		1.10E-5		90962	13	0.995	20	
alpha-Chlordane	B	103333	101931	85724	85823	93516	79288	71619	AVRG		1.13E-5		88748	13	0.995	20	
4,4'-DDE	B	95766	84564	75012	75131	84148	71002	65830	AVRG		1.27E-5		78779	13	0.995	20	
Endosulfan I	B	91398	91136	77279	76347	83083	69494	60318	AVRG		1.27E-5		78436	14	0.995	20	
Dieldrin	B	90262	89247	75813	74566	81517	67229	58567	AVRG		1.30E-5		76743	15	0.995	20	
Endrin	B	61434	66768	52075	54134	56718	51210	43150	AVRG		1.82E-5		55070	14	0.995	20	
4,4'-DDD	B	70512	62369	62575	55715	66652	55028	49445	AVRG		1.66E-5		60328	12	0.995	20	
Endosulfan II	B	88195	81681	68865	62907	70616	56081	48346	AVRG		1.47E-5		68099	20	0.995	20	
4,4'-DDT	B	34648	45667	37294	41950	47890	39563	39096	AVRG		2.45E-5		40872	11	0.995	20	
Methoxychlor	B	15052	18780	14390	14097	16517	13273	11830	AVRG		6.73E-5		14848	15	0.995	20	
Endosulfan sulfate	B	74452	68309	61638	55100	61721	48659	41639	AVRG		1.70E-5		58788	19	0.995	20	
Endrin ketone	B	77753	69597	64940	57807	66651	52142	45451	AVRG		1.61E-5		62049	18	0.995	20	
TCMX	B	101428	93209	81446	80418	81585	76234	65689	AVRG		1.21E-5		82858	14	0.995	20	
Decachlorobiphenyl	B	66603	60371	55388	43922	51148	40393		AVRG		1.89E-5		52971	19	0.995	20	
Average EPA 8081A	A												(n=22)	12		20	
Average EPA 8081A	B												(n=22)	14		20	

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rsd=ICAL %RSD failure

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185457 PEST Water
EPA 8081A

Inst : GC16 Name : gc16pest069
Calnum : 236100122001 Cal Date: 10-MAR-2006

ICV 236100122028 (069_028 11-MAR-2006) stds: S2502

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
alpha-BHC	A	25.00	25.94	pg	4	15	
gamma-BHC	A	25.00	26.09	pg	4	15	
beta-BHC	A	25.00	25.15	pg	1	15	
delta-BHC	A	25.00	26.40	pg	6	15	
Heptachlor	A	25.00	26.42	pg	6	15	
Aldrin	A	25.00	25.81	pg	3	15	
Heptachlor epoxide	A	25.00	25.74	pg	3	15	
gamma-Chlordane	A	25.00	25.00	pg	0	15	
alpha-Chlordane	A	25.00	25.83	pg	3	15	
4,4'-DDE	A	25.00	23.45	pg	-6	15	
Endosulfan I	A	25.00	24.19	pg	-3	15	
Dieldrin	A	25.00	24.80	pg	-1	15	
Endrin	A	25.00	25.70	pg	3	15	
4,4'-DDD	A	25.00	24.45	pg	-2	15	
Endosulfan II	A	25.00	26.53	pg	6	15	
4,4'-DDT	A	25.00	23.91	pg	-4	15	
Methoxychlor	A	25.00	24.90	pg	0	15	
Endosulfan sulfate	A	25.00	26.60	pg	6	15	
Endrin ketone	A	25.00	26.81	pg	7	15	
alpha-BHC	B	25.00	25.10	pg	0	15	
gamma-BHC	B	25.00	24.80	pg	-1	15	
beta-BHC	B	25.00	23.89	pg	-4	15	
delta-BHC	B	25.00	25.81	pg	3	15	
Heptachlor	B	25.00	25.35	pg	1	15	
Aldrin	B	25.00	24.90	pg	0	15	
Heptachlor epoxide	B	25.00	24.21	pg	-3	15	
gamma-Chlordane	B	25.00	23.92	pg	-4	15	
alpha-Chlordane	B	25.00	24.35	pg	-3	15	
4,4'-DDE	B	25.00	26.47	pg	6	15	
Endosulfan I	B	25.00	24.97	pg	0	15	
Dieldrin	B	25.00	26.24	pg	5	15	
Endrin	B	25.00	27.89	pg	12	15	
4,4'-DDD	B	25.00	26.13	pg	5	15	
Endosulfan II	B	25.00	26.52	pg	6	15	
4,4'-DDT	B	25.00	22.77	pg	-9	15	
Methoxychlor	B	25.00	32.89	pg	**32**	15	v+ ***
Endosulfan sulfate	B	25.00	26.82	pg	7	15	
Endrin ketone	B	25.00	27.70	pg	11	15	
Average EPA 8081A	A	n=20			4	15	
Average EPA 8081A	B	n=20			6	15	

+=high bias v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185457 PEST Water: EPA 8081A

Inst : GC21
Calnum : 246090289001
Units : pg

Name : gc21pest062
Date : 03-MAR-2006 16:49
X Axis : R

Reviewer: MCH
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	062_007	246090289007	pest_1	03-MAR-2006 16:49	S2827
L2	062_008	246090289008	pest_2	03-MAR-2006 17:06	S2039
L3	062_009	246090289009	pest_3	03-MAR-2006 17:23	S2824
L4	062_010	246090289010	pest_4	03-MAR-2006 17:41	S2372
L5	062_011	246090289011	pest_5	03-MAR-2006 17:58	S2663
L6	062_012	246090289012	pest_6	03-MAR-2006 18:15	S2828
L7	062_013	246090289013	pest_7	03-MAR-2006 18:33	S2823

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
alpha-BHC	A	15186	14539	13770	13435	13877	13587	12182	AVRG		7.25E-5		13797	7	0.995	20	
gamma-BHC	A	13643	13740	12750	12639	13116	12334	11010	AVRG		7.84E-5		12747	7	0.995	20	
beta-BHC	A	6074.0	5916.8	5452.9	5253.8	5350.0	4961.6	4654.6	AVRG		1.86E-4		5380.5	9	0.995	20	
delta-BHC	A	13337	13643	12559	12818	13276	12231	10744	AVRG		7.90E-5		12658	8	0.995	20	
Heptachlor	A	10866	11505	10481	10418	10788	10390	9314.6	AVRG		9.49E-5		10537	6	0.995	20	
Aldrin	A	12810	12326	11449	11178	11611	10900	9480.2	AVRG		8.78E-5		11393	9	0.995	20	
Heptachlor epoxide	A	12074	11243	10575	9936.1	10310	9809.4	8521.4	AVRG		9.66E-5		10353	11	0.995	20	
gamma-Chlordane	A	12339	11468	10697	10265	10505	10142	8952.6	AVRG		9.41E-5		10624	10	0.995	20	
alpha-Chlordane	A	11835	11323	10033	10187	10465	9843.6	8590.7	AVRG		9.69E-5		10325	10	0.995	20	
4,4'-DDE	A	10909	10533	9864.5	9844.3	10154	9164.7	7141.4	AVRG		1.04E-4		9658.6	13	0.995	20	
Endosulfan I	A	11137	10504	9917.9	9314.5	9441.6	8769.4	7936.7	AVRG		1.04E-4		9574.3	11	0.995	20	
Dieldrin	A	11073	10842	10062	9943.8	10271	8910.0	6764.0	AVRG		1.03E-4		9695.0	15	0.995	20	
Endrin	A	8177.0	8056.5	7341.1	7247.0	7555.2	6952.4	5679.6	AVRG		1.37E-4		7287.0	11	0.995	20	
4,4'-DDD	A	7826.3	7569.7	7076.6	7277.2	7582.4	7258.7	5892.4	AVRG		1.39E-4		7211.9	9	0.995	20	
Endosulfan II	A	10051	9217.4	9179.9	8407.1	8568.4	7805.6	6275.6	AVRG		1.18E-4		8500.7	14	0.995	20	
4,4'-DDT	A	6746.5	7434.6	6874.2	7358.5	7640.4	7280.7	6117.6	AVRG		1.42E-4		7064.6	7	0.995	20	
Methoxychlor	A	2967.5	3121.2	2829.9	2955.0	2972.0	2393.2	1649.9	AVRG		3.71E-4		2698.4	19	0.995	20	
Endosulfan sulfate	A	7977.8	7549.4	6979.8	6805.1	7016.6	6480.9	5376.7	AVRG		1.45E-4		6883.8	12	0.995	20	
Endrin ketone	A	9050.3	8688.4	8066.8	8050.9	8307.8	7525.3	5795.7	AVRG		1.26E-4		7926.5	13	0.995	20	
TCMX	A	9987.5	9445.7	9184.7	8499.5	8783.5	8716.9	7804.2	AVRG		1.12E-4		8917.4	8	0.995	20	
Decachlorobiphenyl	A	6698.3	6152.3	5656.9	5471.6	5472.9	5372.8	4736.6	AVRG		1.77E-4		5651.6	11	0.995	20	
alpha-BHC	B	12960	12479	11566	14001	11683	12352	9907.9	AVRG		8.24E-5		12135	11	0.995	20	
gamma-BHC	B	11425	11317	10400	12744	10523	10745	8653.7	AVRG		9.23E-5		10830	11	0.995	20	
beta-BHC	B	5298.5	5149.6	4866.2	5714.7	4656.5	4774.8	3997.1	AVRG		2.03E-4		4922.5	11	0.995	20	
delta-BHC	B	10979	10445	10059	12433	10100	9924.9	7848.8	AVRG		9.75E-5		10256	13	0.995	20	
Heptachlor	B	8923.0	9901.0	9368.3	10671	8989.3	9374.4	7943.6	AVRG		1.07E-4		9310.0	9	0.995	20	

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Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aldrin	B	10566	10190	9440.4	11353	9413.9	9545.6	7800.9	AVRG		1.02E-4		9758.5	11	0.995	20	
Heptachlor epoxide	B	9735.0	9166.8	8693.1	9743.8	8194.6	8363.1	6836.3	AVRG		1.15E-4		8676.1	12	0.995	20	
gamma-Chlordane	B	10110	9445.8	8913.8	10212	8563.1	8689.4	7255.0	AVRG		1.11E-4		9027.0	11	0.995	20	
alpha-Chlordane	B	9705.0	9115.8	8403.5	10025	8247.7	8117.4	6950.3	AVRG		1.16E-4		8652.2	12	0.995	20	
4,4'-DDE	B	9225.5	8789.5	8210.6	9760.2	8133.7	7623.4	5655.7	AVRG		1.22E-4		8199.8	16	0.995	20	
Endosulfan I	B	9121.0	8979.2	8079.0	9304.9	7972.6	7794.9	6304.0	AVRG		1.22E-4		8222.2	13	0.995	20	
Dieldrin	B	9476.0	8938.0	8308.9	9777.3	8202.1	7472.2	5471.0	AVRG		1.21E-4		8235.1	18	0.995	20	
Endrin	B	6817.5	6531.9	6317.0	6753.9	5672.9	5407.8	4269.0	AVRG		1.68E-4		5967.1	15	0.995	20	
4,4'-DDD	B	7643.8	7095.7	6969.9	7942.8	6780.7	6366.8	4844.0	AVRG		1.47E-4		6806.2	15	0.995	20	
Endosulfan II	B	8202.0	7617.0	7029.2	7927.5	6804.8	6286.1	4757.7	AVRG		1.44E-4		6946.3	17	0.995	20	
4,4'-DDT	B	6763.3	7110.2	6353.1	7660.4	6434.1	6168.2	4824.1	AVRG		1.54E-4		6473.3	14	0.995	20	
Methoxychlor	B	2590.3	2574.9	2427.1	2529.4	2186.1	1792.2		AVRG		4.26E-4		2350.0	13	0.995	20	
Endosulfan sulfate	B	7470.0	6948.4	6335.6	6982.9	5972.4	5538.0	4346.8	AVRG		1.61E-4		6227.7	17	0.995	20	
Endrin ketone	B	9058.0	8221.9	7840.7	8581.4	7436.5	6589.5	4878.0	AVRG		1.33E-4		7515.1	19	0.995	20	
TCMX	B	8856.0	8219.7	7837.4	9077.1	7510.3	8110.1	6413.1	AVRG		1.25E-4		8003.4	11	0.995	20	
Decachlorobiphenyl	B	7380.0	6391.6	6027.9	6418.6	5533.5	5391.2	4346.5	AVRG		1.69E-4		5927.0	16	0.995	20	
Average EPA 8081A	A												(n=22)	11		20	
Average EPA 8081A	B												(n=22)	14		20	

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AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185457 PEST Water
EPA 8081A

Inst : GC21 Name : gc21pest062
Calnum : 246090289001 Cal Date: 03-MAR-2006

ICV 246090289015 (062_015 03-MAR-2006) stds: S2502

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
alpha-BHC	A	25.00	24.41	pg	-2	15	
gamma-BHC	A	25.00	24.17	pg	-3	15	
beta-BHC	A	25.00	23.72	pg	-5	15	
delta-BHC	A	25.00	24.90	pg	0	15	
Heptachlor	A	25.00	24.55	pg	-2	15	
Aldrin	A	25.00	23.91	pg	-4	15	
Heptachlor epoxide	A	25.00	23.60	pg	-6	15	
gamma-Chlordane	A	25.00	23.06	pg	-8	15	
alpha-Chlordane	A	25.00	23.17	pg	-7	15	
4,4'-DDE	A	25.00	25.01	pg	0	15	
Endosulfan I	A	25.00	23.79	pg	-5	15	
Dieldrin	A	25.00	25.17	pg	1	15	
Endrin	A	25.00	25.34	pg	1	15	
4,4'-DDD	A	25.00	24.28	pg	-3	15	
Endosulfan II	A	25.00	26.12	pg	4	15	
4,4'-DDT	A	25.00	25.76	pg	3	15	
Methoxychlor	A	25.00	32.12	pg	**28**	15	v+ ***
Endosulfan sulfate	A	25.00	25.52	pg	2	15	
Endrin ketone	A	25.00	26.09	pg	4	15	
alpha-BHC	B	25.00	26.88	pg	8	15	
gamma-BHC	B	25.00	26.54	pg	6	15	
beta-BHC	B	25.00	26.52	pg	6	15	
delta-BHC	B	25.00	25.95	pg	4	15	
Heptachlor	B	25.00	28.59	pg	14	15	
Aldrin	B	25.00	26.24	pg	5	15	
Heptachlor epoxide	B	25.00	26.31	pg	5	15	
gamma-Chlordane	B	25.00	25.47	pg	2	15	
alpha-Chlordane	B	25.00	25.66	pg	3	15	
4,4'-DDE	B	25.00	27.82	pg	11	15	
Endosulfan I	B	25.00	25.99	pg	4	15	
Dieldrin	B	25.00	27.52	pg	10	15	
Endrin	B	25.00	27.43	pg	10	15	
4,4'-DDD	B	25.00	27.80	pg	11	15	
Endosulfan II	B	25.00	28.03	pg	12	15	
4,4'-DDT	B	25.00	27.30	pg	9	15	
Methoxychlor	B	25.00	32.58	pg	**30**	15	v+ ***
Endosulfan sulfate	B	25.00	27.76	pg	11	15	
Endrin ketone	B	25.00	28.99	pg	**16**	15	v+ ***
Average EPA 8081A	A	n=20			5	15	
Average EPA 8081A	B	n=20			10	15	

+=high bias v=ICV

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 185457 PEST Water
EPA 8081A

Inst : GC16 Run Name: pem IDF : 1.0
Seqnum : 236104276011 File : 072_011 Time : 13-MAR-2006 15:10

Standards: S2664

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	592688	9	15	
4,4'-DDE	A	4173			
4,4'-DDD	A	57197			
Endrin	A	487179	12	15	
Endrin aldehyde	A	18327			
Endrin ketone	A	47911			
4,4'-DDT	B	3265257	14	15	
4,4'-DDE	B	47509			
4,4'-DDD	B	498015			
Endrin	B	2238740	13	15	
Endrin aldehyde	B	73832			
Endrin ketone	B	255383			

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 185457 PEST Water
EPA 8081A

Inst : GC16 Run Name: pem IDF : 1.0
Seqnum : 236104276027 File : 072_027 Time : 13-MAR-2006 23:23

Standards: S2664

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	513841	11	15	
4,4'-DDE	A	3123			
4,4'-DDD	A	59154			
Endrin	A	468893	12	15	
Endrin aldehyde	A	11752			
Endrin ketone	A	50617			
4,4'-DDT	B	3545801	15	15	
4,4'-DDE	B	31386			
4,4'-DDD	B	599483			
Endrin	B	2712213	10	15	
Endrin aldehyde	B	61171			
Endrin ketone	B	225998			

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 185457 PEST Water
EPA 8081A

Inst : GC16 Run Name: pem IDF : 1.0
Seqnum : 236104276039 File : 072_039 Time : 14-MAR-2006 05:10

Standards: S2664

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	489129	12	15	
4,4'-DDE	A	3190			
4,4'-DDD	A	64171			
Endrin	A	464558	10	15	
Endrin aldehyde	A	10623			
Endrin ketone	A	42307			
4,4'-DDT	B	2856272	**18**	15	
4,4'-DDE	B	26732			
4,4'-DDD	B	590792			
Endrin	B	2495575	8	15	
Endrin aldehyde	B	16595			
Endrin ketone	B	205481			

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 185457 PEST Water
EPA 8081A

Inst : GC21 Run Name: pem IDF : 1.0
Seqnum : 246107267028 File : 074_028 Time : 15-MAR-2006 19:50

Standards: S2664

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	696090	8	15	
4,4'-DDE	A	11289			
4,4'-DDD	A	53194			
Endrin	A	381539	12	15	
Endrin aldehyde	A	12264			
Endrin ketone	A	37610			
4,4'-DDT	B	645219	10	15	
4,4'-DDE	B	4648			
4,4'-DDD	B	68139			
Endrin	B	360834	**17**	15	
Endrin aldehyde	B	13262			
Endrin ketone	B	59358			

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 185457 PEST Water
EPA 8081A

Inst : GC21 Run Name: pem IDF : 1.0
Seqnum : 246107267042 File : 074_042 Time : 15-MAR-2006 23:53

Standards: S2664

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	673971	11	15	
4,4'-DDE	A	10584			
4,4'-DDD	A	70235			
Endrin	A	397808	12	15	
Endrin aldehyde	A	8997			
Endrin ketone	A	42912			
4,4'-DDT	B	579069	13	15	
4,4'-DDE	B	4501			
4,4'-DDD	B	79169			
Endrin	B	350715	**16**	15	
Endrin aldehyde	B	9903			
Endrin ketone	B	58710			

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185457 PEST Water
EPA 8081A

Inst : GC16 Run Name: pest_3 IDF : 1.0
Seqnum : 236104276009 File : 072_009 Time : 13-MAR-2006 14:09
Cal : 236100122001 Caldate : 10-MAR-2006
Standards: S2824

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	11308	9563.3	10.00	8.457	pg	-15	15	rsd ***
gamma-BHC	A	11074	9683.0	10.00	8.744	pg	-13	15	
beta-BHC	A	7006.2	6957.8	10.00	9.931	pg	-1	15	
delta-BHC	A	9606.3	8037.6	10.00	8.367	pg	**-16**	15	c- ***
Heptachlor	A	9476.2	8940.5	10.00	9.435	pg	-6	15	
Aldrin	A	10795	10292	10.00	9.534	pg	-5	15	
Heptachlor epoxide	A	11821	12223	10.00	10.34	pg	3	15	
gamma-Chlordane	A	12439	12986	10.00	10.44	pg	4	15	
alpha-Chlordane	A	12332	12835	10.00	10.41	pg	4	15	
4,4'-DDE	A	8407.6	8410.2	20.00	20.01	pg	0	15	
Endosulfan I	A	13230	13597	10.00	10.28	pg	3	15	
Dieldrin	A	10600	10895	20.00	20.56	pg	3	15	
Endrin	A	7948.5	8046.8	20.00	20.25	pg	1	15	
4,4'-DDD	A	6886.2	6787.2	20.00	19.71	pg	-1	15	
Endosulfan II	A	10225	10843	20.00	21.21	pg	6	15	
4,4'-DDT	A	4329.0	3747.7	20.00	17.31	pg	-13	15	rsd ***
Methoxychlor	A	2470.9	2406.4	100.0	97.39	pg	-3	15	
Endosulfan sulfate	A	10157	10803	20.00	21.27	pg	6	15	
Endrin ketone	A	10484	10796	20.00	20.60	pg	3	15	
TCMX	A	11922	12578	20.00	21.10	pg	6	15	
Decachlorobiphenyl	A	14419	17574	20.00	24.38	pg	**22**	15	c+
alpha-BHC	B	116970	120452	10.00	10.30	pg	3	15	
gamma-BHC	B	108341	107009	10.00	9.877	pg	-1	15	
beta-BHC	B	56234	59237	10.00	10.53	pg	5	15	
delta-BHC	B	106432	103387	10.00	9.714	pg	-3	15	
Heptachlor	B	77001	68612	10.00	8.911	pg	-11	15	
Aldrin	B	93536	96886	10.00	10.36	pg	4	15	
Heptachlor epoxide	B	87376	90521	10.00	10.36	pg	4	15	
gamma-Chlordane	B	90962	94417	10.00	10.38	pg	4	15	
alpha-Chlordane	B	88748	93451	10.00	10.53	pg	5	15	
4,4'-DDE	B	78779	83339	20.00	21.16	pg	6	15	
Endosulfan I	B	78436	86760	10.00	11.06	pg	11	15	
Dieldrin	B	76743	80083	20.00	20.87	pg	4	15	
Endrin	B	55070	55889	20.00	20.30	pg	1	15	
4,4'-DDD	B	60328	54458	20.00	18.05	pg	-10	15	
Endosulfan II	B	68099	72304	20.00	21.24	pg	6	15	
4,4'-DDT	B	40872	32870	20.00	16.08	pg	**-20**	15	c- ***
Methoxychlor	B	14848	12716	100.0	85.64	pg	-14	15	
Endosulfan sulfate	B	58788	62775	20.00	21.36	pg	7	15	
Endrin ketone	B	62049	61554	20.00	19.84	pg	-1	15	
TCMX	B	82858	98092	20.00	23.68	pg	**18**	15	c+
Decachlorobiphenyl	B	52971	57933	20.00	21.87	pg	9	15	
Average EPA 8081A	A	(n=22)					7	15	
Average EPA 8081A	B	(n=22)					7	15	

+=high bias -=low bias c=CCV rsd=ICAL %RSD failure

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185457 PEST Water
EPA 8081A

Inst : GC16 Run Name: pest_4 IDF : 1.0
Seqnum : 236104276025 File : 072_025 Time : 13-MAR-2006 22:26
Cal : 236100122001 Caldate : 10-MAR-2006
Standards: S2372

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	11308	10221	20.00	18.08	pg	-10	15	rsd ***
gamma-BHC	A	11074	10462	20.00	18.90	pg	-6	15	
beta-BHC	A	7006.2	6673.7	20.00	19.05	pg	-5	15	
delta-BHC	A	9606.3	8693.4	20.00	18.10	pg	-10	15	
Heptachlor	A	9476.2	9641.0	20.00	20.35	pg	2	15	
Aldrin	A	10795	10507	20.00	19.47	pg	-3	15	
Heptachlor epoxide	A	11821	11549	20.00	19.54	pg	-2	15	
gamma-Chlordane	A	12439	12330	20.00	19.82	pg	-1	15	
alpha-Chlordane	A	12332	12556	20.00	20.36	pg	2	15	
4,4'-DDE	A	8407.6	8688.4	40.00	41.34	pg	3	15	
Endosulfan I	A	13230	13260	20.00	20.05	pg	0	15	
Dieldrin	A	10600	10967	40.00	41.39	pg	3	15	
Endrin	A	7948.5	8555.0	40.00	43.05	pg	8	15	
4,4'-DDD	A	6886.2	6666.7	40.00	38.72	pg	-3	15	
Endosulfan II	A	10225	10559	40.00	41.31	pg	3	15	
4,4'-DDT	A	4329.0	4080.7	40.00	37.71	pg	-6	15	rsd ***
Methoxychlor	A	2470.9	2585.8	200.0	209.3	pg	5	15	
Endosulfan sulfate	A	10157	10120	40.00	39.85	pg	0	15	
Endrin ketone	A	10484	10488	40.00	40.02	pg	0	15	
TCMX	A	11922	11800	40.00	39.59	pg	-1	15	
Decachlorobiphenyl	A	14419	14837	40.00	41.16	pg	3	15	
alpha-BHC	B	116970	99343	20.00	16.99	pg	-15	15	
gamma-BHC	B	108341	93030	20.00	17.17	pg	-14	15	
beta-BHC	B	56234	47536	20.00	16.91	pg	-15	15	
delta-BHC	B	106432	90754	20.00	17.05	pg	-15	15	
Heptachlor	B	77001	66951	20.00	17.39	pg	-13	15	
Aldrin	B	93536	82132	20.00	17.56	pg	-12	15	
Heptachlor epoxide	B	87376	77945	20.00	17.84	pg	-11	15	
gamma-Chlordane	B	90962	80136	20.00	17.62	pg	-12	15	
alpha-Chlordane	B	88748	80043	20.00	18.04	pg	-10	15	
4,4'-DDE	B	78779	70142	40.00	35.61	pg	-11	15	
Endosulfan I	B	78436	70782	20.00	18.05	pg	-10	15	
Dieldrin	B	76743	69429	40.00	36.19	pg	-10	15	
Endrin	B	55070	49179	40.00	35.72	pg	-11	15	
4,4'-DDD	B	60328	53136	40.00	35.23	pg	-12	15	
Endosulfan II	B	68099	60890	40.00	35.77	pg	-11	15	
4,4'-DDT	B	40872	34269	40.00	33.54	pg	**-16**	15	c- ***
Methoxychlor	B	14848	13089	200.0	176.3	pg	-12	15	
Endosulfan sulfate	B	58788	52648	40.00	35.82	pg	-10	15	
Endrin ketone	B	62049	54135	40.00	34.90	pg	-13	15	
TCMX	B	82858	70782	40.00	34.17	pg	-15	15	
Decachlorobiphenyl	B	52971	46183	40.00	34.87	pg	-13	15	
Average EPA 8081A	A	(n=22)					4	15	
Average EPA 8081A	B	(n=22)					13	15	

-=low bias c=CCV rsd=ICAL %RSD failure

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185457 PEST Water
EPA 8081A

Inst : GC16 Run Name: pest_5 IDF : 1.0
Seqnum : 236104276040 File : 072_040 Time : 14-MAR-2006 05:39
Cal : 236100122001 Caldate : 10-MAR-2006
Standards: S2663

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	11308	11661	25.00	25.78	pg	3	15	rsd ***
gamma-BHC	A	11074	11575	25.00	26.13	pg	5	15	
beta-BHC	A	7006.2	6862.2	25.00	24.49	pg	-2	15	
delta-BHC	A	9606.3	9601.7	25.00	24.99	pg	0	15	
Heptachlor	A	9476.2	9544.1	25.00	25.18	pg	1	15	
Aldrin	A	10795	11529	25.00	26.70	pg	7	15	
Heptachlor epoxide	A	11821	11929	25.00	25.23	pg	1	15	
gamma-Chlordane	A	12439	12614	25.00	25.35	pg	1	15	
alpha-Chlordane	A	12332	12904	25.00	26.16	pg	5	15	
4,4'-DDE	A	8407.6	9245.1	50.00	54.98	pg	10	15	
Endosulfan I	A	13230	13772	25.00	26.02	pg	4	15	
Dieldrin	A	10600	11422	50.00	53.88	pg	8	15	
Endrin	A	7948.5	8407.7	50.00	52.89	pg	6	15	
4,4'-DDD	A	6886.2	7158.0	50.00	51.97	pg	4	15	
Endosulfan II	A	10225	10570	50.00	51.68	pg	3	15	
4,4'-DDT	A	4329.0	3711.7	50.00	42.87	pg	-14	15	rsd ***
Methoxychlor	A	2470.9	2295.2	250.0	232.2	pg	-7	15	
Endosulfan sulfate	A	10157	10336	50.00	50.88	pg	2	15	
Endrin ketone	A	10484	10616	50.00	50.63	pg	1	15	
TCMX	A	11922	12484	50.00	52.36	pg	5	15	
Decachlorobiphenyl	A	14419	14068	50.00	48.78	pg	-2	15	
alpha-BHC	B	116970	108646	25.00	23.22	pg	-7	15	
gamma-BHC	B	108341	99772	25.00	23.02	pg	-8	15	
beta-BHC	B	56234	49590	25.00	22.05	pg	-12	15	
delta-BHC	B	106432	97366	25.00	22.87	pg	-9	15	
Heptachlor	B	77001	69848	25.00	22.68	pg	-9	15	
Aldrin	B	93536	87971	25.00	23.51	pg	-6	15	
Heptachlor epoxide	B	87376	78215	25.00	22.38	pg	-10	15	
gamma-Chlordane	B	90962	83327	25.00	22.90	pg	-8	15	
alpha-Chlordane	B	88748	82791	25.00	23.32	pg	-7	15	
4,4'-DDE	B	78779	74341	50.00	47.18	pg	-6	15	
Endosulfan I	B	78436	73533	25.00	23.44	pg	-6	15	
Dieldrin	B	76743	71910	50.00	46.85	pg	-6	15	
Endrin	B	55070	53502	50.00	48.58	pg	-3	15	
4,4'-DDD	B	60328	55401	50.00	45.92	pg	-8	15	
Endosulfan II	B	68099	61650	50.00	45.27	pg	-9	15	
4,4'-DDT	B	40872	32530	50.00	39.79	pg	**-20**	15	c- ***
Methoxychlor	B	14848	12348	250.0	207.9	pg	**-17**	15	c- ***
Endosulfan sulfate	B	58788	53161	50.00	45.21	pg	-10	15	
Endrin ketone	B	62049	54792	50.00	44.15	pg	-12	15	
TCMX	B	82858	74917	50.00	45.21	pg	-10	15	
Decachlorobiphenyl	B	52971	45024	50.00	42.50	pg	-15	15	
Average EPA 8081A	A	(n=22)					4	15	
Average EPA 8081A	B	(n=22)					10	15	

-=low bias c=CCV rsd=ICAL %RSD failure

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185457 PEST Water
EPA 8081A

Inst : GC21 Run Name: pest_5 IDF : 1.0
Seqnum : 246107267030 File : 074_030 Time : 15-MAR-2006 20:24
Cal : 246090289001 Caldate : 03-MAR-2006
Standards: S2663

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	13797	13032	25.00	23.61	pg	-6	15	
gamma-BHC	A	12747	12420	25.00	24.36	pg	-3	15	
beta-BHC	A	5380.5	5137.9	25.00	23.87	pg	-5	15	
delta-BHC	A	12658	12727	25.00	25.14	pg	1	15	
Heptachlor	A	10537	10611	25.00	25.17	pg	1	15	
Aldrin	A	11393	11023	25.00	24.19	pg	-3	15	
Heptachlor epoxide	A	10353	9942.2	25.00	24.01	pg	-4	15	
gamma-Chlordane	A	10624	10123	25.00	23.82	pg	-5	15	
alpha-Chlordane	A	10325	9851.4	25.00	23.85	pg	-5	15	
4,4'-DDE	A	9658.6	9751.8	50.00	50.48	pg	1	15	
Endosulfan I	A	9574.3	9313.3	25.00	24.32	pg	-3	15	
Dieldrin	A	9695.0	9887.0	50.00	50.99	pg	2	15	
Endrin	A	7287.0	7001.8	50.00	48.04	pg	-4	15	
4,4'-DDD	A	7211.9	7292.1	50.00	50.56	pg	1	15	
Endosulfan II	A	8500.7	8953.3	50.00	52.66	pg	5	15	
4,4'-DDT	A	7064.6	6983.8	50.00	49.43	pg	-1	15	
Methoxychlor	A	2698.4	2914.0	250.0	270.0	pg	8	15	
Endosulfan sulfate	A	6883.8	7049.5	50.00	51.20	pg	2	15	
Endrin ketone	A	7926.5	8709.6	50.00	54.94	pg	10	15	
TCMX	A	8917.4	8223.2	50.00	46.11	pg	-8	15	
Decachlorobiphenyl	A	5651.6	5559.5	50.00	49.18	pg	-2	15	
alpha-BHC	B	12135	11128	25.00	22.93	pg	-8	15	
gamma-BHC	B	10830	10235	25.00	23.63	pg	-5	15	
beta-BHC	B	4922.5	4629.6	25.00	23.51	pg	-6	15	
delta-BHC	B	10256	9832.1	25.00	23.97	pg	-4	15	
Heptachlor	B	9310.0	9762.8	25.00	26.22	pg	5	15	
Aldrin	B	9758.5	9341.0	25.00	23.93	pg	-4	15	
Heptachlor epoxide	B	8676.1	8341.8	25.00	24.04	pg	-4	15	
gamma-Chlordane	B	9027.0	8550.5	25.00	23.68	pg	-5	15	
alpha-Chlordane	B	8652.2	8249.2	25.00	23.84	pg	-5	15	
4,4'-DDE	B	8199.8	8252.9	50.00	50.32	pg	1	15	
Endosulfan I	B	8222.2	8058.9	25.00	24.50	pg	-2	15	
Dieldrin	B	8235.1	8440.8	50.00	51.25	pg	2	15	
Endrin	B	5967.1	6139.3	50.00	51.44	pg	3	15	
4,4'-DDD	B	6806.2	7216.3	50.00	53.01	pg	6	15	
Endosulfan II	B	6946.3	7142.2	50.00	51.41	pg	3	15	
4,4'-DDT	B	6473.3	6326.2	50.00	48.86	pg	-2	15	
Methoxychlor	B	2350.0	2447.5	250.0	260.4	pg	4	15	
Endosulfan sulfate	B	6227.7	6201.9	50.00	49.79	pg	0	15	
Endrin ketone	B	7515.1	7910.9	50.00	52.63	pg	5	15	
TCMX	B	8003.4	7024.5	50.00	43.88	pg	-12	15	
Decachlorobiphenyl	B	5927.0	5678.5	50.00	47.90	pg	-4	15	
Average EPA 8081A	A	(n=22)					4	15	
Average EPA 8081A	B	(n=22)					4	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185457 PEST Water
EPA 8081A

Inst : GC21 Run Name: pest_3 IDF : 1.0
Seqnum : 246107267044 File : 074_044 Time : 16-MAR-2006 00:28
Cal : 246090289001 Caldate : 03-MAR-2006
Standards: S2824

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	13797	13093	10.00	9.490	pg	-5	15	
gamma-BHC	A	12747	12260	10.00	9.618	pg	-4	15	
beta-BHC	A	5380.5	5243.5	10.00	9.745	pg	-3	15	
delta-BHC	A	12658	12097	10.00	9.556	pg	-4	15	
Heptachlor	A	10537	10245	10.00	9.722	pg	-3	15	
Aldrin	A	11393	10878	10.00	9.548	pg	-5	15	
Heptachlor epoxide	A	10353	10224	10.00	9.876	pg	-1	15	
gamma-Chlordane	A	10624	10074	10.00	9.482	pg	-5	15	
alpha-Chlordane	A	10325	9596.2	10.00	9.294	pg	-7	15	
4,4'-DDE	A	9658.6	9330.8	20.00	19.32	pg	-3	15	
Endosulfan I	A	9574.3	9256.5	10.00	9.668	pg	-3	15	
Dieldrin	A	9695.0	9553.3	20.00	19.71	pg	-1	15	
Endrin	A	7287.0	6754.0	20.00	18.54	pg	-7	15	
4,4'-DDD	A	7211.9	7074.8	20.00	19.62	pg	-2	15	
Endosulfan II	A	8500.7	8998.3	20.00	21.17	pg	6	15	
4,4'-DDT	A	7064.6	5555.2	20.00	15.73	pg	**-21**	15	c- ***
Methoxychlor	A	2698.4	2574.5	100.0	95.41	pg	-5	15	
Endosulfan sulfate	A	6883.8	6978.7	20.00	20.28	pg	1	15	
Endrin ketone	A	7926.5	8424.6	20.00	21.26	pg	6	15	
TCMX	A	8917.4	8782.3	20.00	19.70	pg	-2	15	
Decachlorobiphenyl	A	5651.6	5763.9	20.00	20.40	pg	2	15	
alpha-BHC	B	12135	11535	10.00	9.505	pg	-5	15	
gamma-BHC	B	10830	10290	10.00	9.502	pg	-5	15	
beta-BHC	B	4922.5	4686.1	10.00	9.520	pg	-5	15	
delta-BHC	B	10256	9874.5	10.00	9.628	pg	-4	15	
Heptachlor	B	9310.0	9129.6	10.00	9.806	pg	-2	15	
Aldrin	B	9758.5	9419.6	10.00	9.653	pg	-3	15	
Heptachlor epoxide	B	8676.1	8643.1	10.00	9.962	pg	0	15	
gamma-Chlordane	B	9027.0	8816.5	10.00	9.767	pg	-2	15	
alpha-Chlordane	B	8652.2	8454.0	10.00	9.771	pg	-2	15	
4,4'-DDE	B	8199.8	8268.4	20.00	20.17	pg	1	15	
Endosulfan I	B	8222.2	8028.1	10.00	9.764	pg	-2	15	
Dieldrin	B	8235.1	8380.2	20.00	20.35	pg	2	15	
Endrin	B	5967.1	6193.8	20.00	20.76	pg	4	15	
4,4'-DDD	B	6806.2	7737.6	20.00	22.74	pg	14	15	
Endosulfan II	B	6946.3	7444.3	20.00	21.43	pg	7	15	
4,4'-DDT	B	6473.3	5388.8	20.00	16.65	pg	**-17**	15	c- ***
Methoxychlor	B	2350.0	2304.2	100.0	98.05	pg	-2	15	
Endosulfan sulfate	B	6227.7	6538.1	20.00	21.00	pg	5	15	
Endrin ketone	B	7515.1	8222.7	20.00	21.88	pg	9	15	
TCMX	B	8003.4	7090.6	20.00	17.72	pg	-11	15	
Decachlorobiphenyl	B	5927.0	6034.8	20.00	20.36	pg	2	15	
Average EPA 8081A	A	(n=22)					4	15	
Average EPA 8081A	B	(n=22)					5	15	

-=low bias c=CCV

SEQUENCE SUMMARY FOR 185457 PEST Water
Curtis & Tompkins Laboratories

Sequence: 246090289 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 03-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	062_001	X	primer			03-MAR-2006 15:05	1.0							
002	062_002	X	primer			03-MAR-2006 15:22	1.0							
003	062_003	X	primer			03-MAR-2006 15:40	1.0							
004	062_004	X	hex			03-MAR-2006 15:57	1.0							
005	062_005	PEM	pem			03-MAR-2006 16:14	1.0			1			1	
006	062_006	X	hex			03-MAR-2006 16:31	1.0							
007	062_007	ICAL	pest_1			03-MAR-2006 16:49	1.0						2	
008	062_008	ICAL	pest_2			03-MAR-2006 17:06	1.0						3	
009	062_009	ICAL	pest_3			03-MAR-2006 17:23	1.0						4	
010	062_010	ICAL	pest_4			03-MAR-2006 17:41	1.0						5	
011	062_011	ICAL	pest_5			03-MAR-2006 17:58	1.0						6	
012	062_012	ICAL	pest_6			03-MAR-2006 18:15	1.0						7	
013	062_013	ICAL	pest_7			03-MAR-2006 18:33	1.0						8	
014	062_014	X	hex			03-MAR-2006 18:50	1.0							
015	062_015	ICV	icv			03-MAR-2006 19:07	1.0	3		1			9	410
016	062_016	X	icv			03-MAR-2006 19:24	1.0						9	
017	062_017	X	hex			03-MAR-2006 19:42	1.0							

Stds used: 1=S2664 2=S2827 3=S2039 4=S2824 5=S2372 6=S2663 7=S2828 8=S2823 9=S2502

SEQUENCE SUMMARY FOR 185457 PEST Water
Curtis & Tompkins Laboratories

Sequence: 236100122 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 10-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	069_001	X	hex			10-MAR-2006 12:42	1.0							
002	069_002	X	pem			10-MAR-2006 13:11	1.0						1	
003	069_003	X	pest_3			10-MAR-2006 13:40	1.0						2	
004	069_004	X	pest_3			10-MAR-2006 14:09	1.0						2	
005	069_005	X	primer			10-MAR-2006 14:50	1.0							
006	069_006	X	primer			10-MAR-2006 15:18	1.0							
007	069_007	X	primer			10-MAR-2006 15:47	1.0							
008	069_008	X	primer			10-MAR-2006 16:16	1.0							
009	069_009	X	primer			10-MAR-2006 16:45	1.0							
010	069_010	X	primer			10-MAR-2006 17:14	1.0							
011	069_011	X	primer			10-MAR-2006 17:43	1.0							
012	069_012	X	primer			10-MAR-2006 18:12	1.0							
013	069_013	X	primer			10-MAR-2006 18:41	1.0							
014	069_014	X	primer			10-MAR-2006 19:10	1.0							
015	069_015	X	primer			10-MAR-2006 19:39	1.0							411
016	069_016	X	primer			10-MAR-2006 20:07	1.0							
017	069_017	X	hex			10-MAR-2006 20:36	1.0							
018	069_018	PEM	pem			10-MAR-2006 21:05	1.0			1			1 1:DDT44=165.001	
019	069_019	X	hex			10-MAR-2006 21:34	1.0							
020	069_020	ICAL	pest_1			10-MAR-2006 22:03	1.0						3	
021	069_021	ICAL	pest_2			10-MAR-2006 22:32	1.0						4	
022	069_022	ICAL	pest_3			10-MAR-2006 23:01	1.0						2	
023	069_023	ICAL	pest_4			10-MAR-2006 23:30	1.0						5	
024	069_024	ICAL	pest_5			10-MAR-2006 23:59	1.0						6	
025	069_025	ICAL	pest_6			11-MAR-2006 00:27	1.0						7	
026	069_026	ICAL	pest_7			11-MAR-2006 00:56	1.0						8	
027	069_027	X	hex			11-MAR-2006 01:25	1.0							
028	069_028	ICV	icv			11-MAR-2006 01:54	1.0	1		1			9	
029	069_029	X	icv			11-MAR-2006 02:23	1.0						9	
030	069_030	X	pem			11-MAR-2006 02:52	1.0						1	
031	069_031	X	hex			11-MAR-2006 03:20	1.0							

Stds used: 1=S2664 2=S2824 3=S2827 4=S2039 5=S2372 6=S2663 7=S2828 8=S2823 9=S2502

SEQUENCE SUMMARY FOR 185457 PEST Water
Curtis & Tompkins Laboratories

Sequence: 236104276 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 13-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	072_001	X	primer			13-MAR-2006 09:56	1.0					
002	072_002	X	primer			13-MAR-2006 10:25	1.0					
003	072_003	X	primer			13-MAR-2006 10:54	1.0					
004	072_004	X	primer			13-MAR-2006 11:23	1.0					
005	072_005	X	hex			13-MAR-2006 11:51	1.0					
006	072_006	X	pem			13-MAR-2006 12:20	1.0				1	
007	072_007	X	pest_3			13-MAR-2006 12:49	1.0				2	
008	072_008	X	pest_3			13-MAR-2006 13:18	1.0				2	
009	072_009	CCV	pest_3			13-MAR-2006 14:09	1.0	1.0	4	1	2	
010	072_010	X	pest_3			13-MAR-2006 14:38	1.0				2	
011	072_011	PEM	pem			13-MAR-2006 15:10	1.0	1.0		1	1	
012	072_012	X	hex			13-MAR-2006 16:10	1.0					
013	072_013	BLANK	QC330776	111141	Soil	13-MAR-2006 16:39	1.0	0.6667	3	1		
014	072_014	LCS	QC330777	111141	Soil	13-MAR-2006 17:08	1.0	0.6667	5	1		
015	072_015	LCS	QC330778	111141	Soil	13-MAR-2006 17:37	1.0	0.6667	5	1		412
016	072_016	LCS	QC330779	111141	Soil	13-MAR-2006 18:06	1.0	0.6667	5	1		
017	072_017	LCS	QC330780	111141	Soil	13-MAR-2006 18:35	1.0	0.6667	5	1		
018	072_018	BLANK	QC331124	111219	Water	13-MAR-2006 19:04	1.0	0.01	2	1		
019	072_019	BS	QC331125	111219	Water	13-MAR-2006 19:32	1.0	0.01	4	1		
020	072_020	BSD	QC331126	111219	Water	13-MAR-2006 20:01	1.0	0.01	4	1		
021	072_021	SAMPLE	185457-001	111219	Water	13-MAR-2006 20:30	1.0	0.009709	2	1		
022	072_022	SAMPLE	185457-002	111219	Water	13-MAR-2006 20:59	1.0	0.009524	2	1		
023	072_023	X	hex			13-MAR-2006 21:28	1.0					
024	072_024	X	pem			13-MAR-2006 21:57	1.0	1.0		1	1	
025	072_025	CCV	pest_4			13-MAR-2006 22:26	1.0	1.0	4	1	3	
026	072_026	X	pest_4			13-MAR-2006 22:54	1.0				3	
027	072_027	PEM	pem			13-MAR-2006 23:23	1.0	1.0		1	1	
028	072_028	X	hex			13-MAR-2006 23:52	1.0					
029	072_029	SAMPLE	185457-005	111219	Water	14-MAR-2006 00:21	1.0	0.009524	2	1		
030	072_030	SAMPLE	185457-006	111219	Water	14-MAR-2006 00:50	1.0	0.009524	2	1		
031	072_031	SAMPLE	185457-007	111219	Water	14-MAR-2006 01:19	1.0	0.009434	2	1		

Stds used: 1=S2664 2=S2824 3=S2372 4=S2663

SEQUENCE SUMMARY FOR 185457 PEST Water
Curtis & Tompkins Laboratories

Sequence: 236104276 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 13-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	072_032	SAMPLE	185457-008	111219	Water	14-MAR-2006 01:48	1.0	0.009804	2		1		
033	072_033	SAMPLE	185468-001	111219	Water	14-MAR-2006 02:17	1.0	0.009524	3		1		
034	072_034	SAMPLE	185468-003	111219	Water	14-MAR-2006 02:45	1.0	0.009524	3		1		
035	072_035	SAMPLE	185468-004	111219	Water	14-MAR-2006 03:14	1.0	0.009901	3		1		
036	072_036	SAMPLE	185468-005	111219	Water	14-MAR-2006 03:43	1.0	0.009434	3		1		
037	072_037	SAMPLE	185468-006	111219	Water	14-MAR-2006 04:12	1.0	0.009434	3		1		
038	072_038	X	hex			14-MAR-2006 04:41	1.0						
039	072_039	PEM	pem			14-MAR-2006 05:10	1.0	1.0			1	1	
040	072_040	CCV	pest_5			14-MAR-2006 05:39	1.0	1.0	4		1	4	
041	072_041	X	pest_5			14-MAR-2006 06:07	1.0					4	
042	072_042	X	pem			14-MAR-2006 06:36	1.0	1.0			1	1	
043	072_043	X	hex			14-MAR-2006 07:05	1.0						

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Stds used: 1=S2664 2=S2824 3=S2372 4=S2663

SEQUENCE SUMMARY FOR 185457 PEST Water
Curtis & Tompkins Laboratories

Sequence: 246107267 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 15-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	074_001	X	hex			15-MAR-2006 10:55	1.0						
002	074_002	X	pem			15-MAR-2006 11:12	1.0					1	
003	074_003	X	pest_3			15-MAR-2006 11:30	1.0					2	
004	074_004	CCV	pest_3			15-MAR-2006 11:47	1.0	1.0			1	2	
005	074_005	PEM	pem			15-MAR-2006 12:06	1.0	1.0			1	1	
006	074_006	X	chlordane			15-MAR-2006 12:24	1.0					3	
007	074_007	ICAL	chlordane			15-MAR-2006 12:41	1.0	1.0				3	
008	074_008	X	hex			15-MAR-2006 13:09	1.0						
009	074_009	SAMPLE	185004-004	110898	Soil	15-MAR-2006 13:35	20.0	0.6671			1		
010	074_010	SAMPLE	185004-012	111036	Soil	15-MAR-2006 13:52	5.0	0.6667	8		1	sh	
011	074_011	X	hex			15-MAR-2006 14:15	1.0						
012	074_012	CCV	chlordane			15-MAR-2006 14:32	1.0	1.0			1	3	
013	074_013	X	chlordane			15-MAR-2006 14:50	1.0					3	
014	074_014	PEM	pem			15-MAR-2006 15:07	1.0	1.0			1	1	
015	074_015	CCV	pest_4			15-MAR-2006 15:25	1.0	1.0	4		1	4	414
019	074_019	BLANK	QC331507	111307	Soil	15-MAR-2006 17:13	1.0	0.6667			1		
020	074_020	LCS	QC331508	111307	Soil	15-MAR-2006 17:31	1.0	0.6667	4		1		
021	074_021	MSS	185500-001	111307	Soil	15-MAR-2006 17:48	1.0	0.6667			1		
022	074_022	SAMPLE	185500-002	111307	Soil	15-MAR-2006 18:05	1.0	0.6734			1		
023	074_023	SAMPLE	185507-001	111307	Soil	15-MAR-2006 18:23	10.0	0.6579	1		1	4:ENDRIN=276.916	
024	074_024	SAMPLE	185508-001	111307	Soil	15-MAR-2006 18:40	10.0	0.6775	1		1	6:ENDRIN=345.936	
025	074_025	MS	QC331509	111307	Soil	15-MAR-2006 18:57	1.0	0.6698	4		1		
026	074_026	MSD	QC331510	111307	Soil	15-MAR-2006 19:15	1.0	0.6645	4		1		
028	074_028	PEM	pem			15-MAR-2006 19:50	1.0	1.0			1	1	
029	074_029	X	pest_5			15-MAR-2006 20:07	1.0					5	
030	074_030	CCV	pest_5			15-MAR-2006 20:24	1.0	1.0			1	5	
031	074_031	X	pem			15-MAR-2006 20:42	1.0					1	
033	074_033	BLANK	QC331476	111300	Water	15-MAR-2006 21:17	1.0	0.01	2	1	1		
034	074_034	LCS	QC331477	111300	Water	15-MAR-2006 21:34	1.0	0.01	2	2	1		
035	074_035	MSS	185408-008	111300	Water	15-MAR-2006 21:51	1.0	0.009804	2		1		

Stds used: 1=S2664 2=S2824 3=S2830 4=S2372 5=S2663
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 185457 PEST Water
Curtis & Tompkins Laboratories

Sequence: 246107267 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 15-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
036	074_036	MSS	185457-016	111300	Water	15-MAR-2006 22:09	1.0	0.009709	2		1		
037	074_037	MS	QC331478	111300	Water	15-MAR-2006 22:26	1.0	0.009804	2	1	1		
038	074_038	MSD	QC331479	111300	Water	15-MAR-2006 22:43	1.0	0.009804	2		1		
039	074_039	MS	QC331480	111300	Water	15-MAR-2006 23:01	1.0	0.009709	2		1		
040	074_040	MSD	QC331481	111300	Water	15-MAR-2006 23:18	1.0	0.009709	2		1		
042	074_042	PEM	pem			15-MAR-2006 23:53	1.0	1.0			1	1	
043	074_043	X	pest_3			16-MAR-2006 00:10	1.0					2	
044	074_044	CCV	pest_3			16-MAR-2006 00:28	1.0	1.0	2		1	2	
045	074_045	X	pem			16-MAR-2006 00:45	1.0					1	
047	074_047	SAMPLE	185487-003	111307	Soil	16-MAR-2006 01:20	10.0	0.6649	2		1		
048	074_048	SAMPLE	185487-004	111307	Soil	16-MAR-2006 01:37	5.0	0.6716	2	2	1		
049	074_049	SAMPLE	185487-005	111307	Soil	16-MAR-2006 01:54	5.0	0.6743	2	1	1		
050	074_050	SAMPLE	185487-006	111307	Soil	16-MAR-2006 02:12	50.0	0.6667	2		1		
052	074_052	PEM	pem			16-MAR-2006 02:47	1.0	1.0			1	1	
053	074_053	CCV	pest_4			16-MAR-2006 03:04	1.0	1.0			1	4	
054	074_054	X	pest_4			16-MAR-2006 03:21	1.0					4	
055	074_055	X	pem			16-MAR-2006 03:39	1.0					1	

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Stds used: 1=S2664 2=S2824 3=S2830 4=S2372 5=S2663
Flags used: sh=out of sample hold

REPORTING SUMMARY FOR 185457 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185457-001	alpha-BHC	GC16	B	03/13/06 20:30
185457-001	beta-BHC	GC16	B	03/13/06 20:30
185457-001	gamma-BHC	GC16	B	03/13/06 20:30
185457-001	delta-BHC	GC16	B	03/13/06 20:30
185457-001	Heptachlor	GC16	B	03/13/06 20:30
185457-001	Aldrin	GC16	B	03/13/06 20:30
185457-001	Heptachlor epoxide	GC16	B	03/13/06 20:30
185457-001	Endosulfan I	GC16	B	03/13/06 20:30
185457-001	Dieldrin	GC16	B	03/13/06 20:30
185457-001	4,4'-DDE	GC16	B	03/13/06 20:30
185457-001	Endrin	GC16	B	03/13/06 20:30
185457-001	Endosulfan II	GC16	B	03/13/06 20:30
185457-001	Endosulfan sulfate	GC16	B	03/13/06 20:30
185457-001	4,4'-DDD	GC16	B	03/13/06 20:30
185457-001	4,4'-DDT	GC16	B	03/13/06 20:30
185457-001	alpha-Chlordane	GC16	B	03/13/06 20:30
185457-001	gamma-Chlordane	GC16	B	03/13/06 20:30
185457-001	Methoxychlor	GC16	B	03/13/06 20:30
185457-001	Endrin ketone	GC16	B	03/13/06 20:30
185457-001	Toxaphene	GC16	B	03/13/06 20:30
185457-001	TCMX	GC16	B	03/13/06 20:30
185457-001	Decachlorobiphenyl	GC16	B	03/13/06 20:30
185457-002	alpha-BHC	GC16	B	03/13/06 20:59
185457-002	beta-BHC	GC16	B	03/13/06 20:59
185457-002	gamma-BHC	GC16	B	03/13/06 20:59
185457-002	delta-BHC	GC16	B	03/13/06 20:59
185457-002	Heptachlor	GC16	B	03/13/06 20:59
185457-002	Aldrin	GC16	B	03/13/06 20:59
185457-002	Heptachlor epoxide	GC16	B	03/13/06 20:59
185457-002	Endosulfan I	GC16	B	03/13/06 20:59
185457-002	Dieldrin	GC16	B	03/13/06 20:59
185457-002	4,4'-DDE	GC16	B	03/13/06 20:59
185457-002	Endrin	GC16	B	03/13/06 20:59
185457-002	Endosulfan II	GC16	B	03/13/06 20:59
185457-002	Endosulfan sulfate	GC16	B	03/13/06 20:59
185457-002	4,4'-DDD	GC16	B	03/13/06 20:59
185457-002	4,4'-DDT	GC16	B	03/13/06 20:59
185457-002	alpha-Chlordane	GC16	B	03/13/06 20:59
185457-002	gamma-Chlordane	GC16	B	03/13/06 20:59
185457-002	Methoxychlor	GC16	B	03/13/06 20:59
185457-002	Endrin ketone	GC16	B	03/13/06 20:59
185457-002	Toxaphene	GC16	B	03/13/06 20:59
185457-002	TCMX	GC16	B	03/13/06 20:59
185457-002	Decachlorobiphenyl	GC16	B	03/13/06 20:59
185457-005	alpha-BHC	GC16	B	03/14/06 00:21
185457-005	beta-BHC	GC16	A	03/14/06 00:21
185457-005	gamma-BHC	GC16	A	03/14/06 00:21
185457-005	delta-BHC	GC16	A	03/14/06 00:21
185457-005	Heptachlor	GC16	A	03/14/06 00:21
185457-005	Aldrin	GC16	A	03/14/06 00:21
185457-005	Heptachlor epoxide	GC16	A	03/14/06 00:21
185457-005	Endosulfan I	GC16	A	03/14/06 00:21

REPORTING SUMMARY FOR 185457 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185457-005	Dieldrin	GC16	A	03/14/06 00:21
185457-005	4,4'-DDE	GC16	A	03/14/06 00:21
185457-005	Endrin	GC16	A	03/14/06 00:21
185457-005	Endosulfan II	GC16	A	03/14/06 00:21
185457-005	Endosulfan sulfate	GC16	A	03/14/06 00:21
185457-005	4,4'-DDD	GC16	A	03/14/06 00:21
185457-005	4,4'-DDT	GC16	A	03/14/06 00:21
185457-005	alpha-Chlordane	GC16	A	03/14/06 00:21
185457-005	gamma-Chlordane	GC16	A	03/14/06 00:21
185457-005	Methoxychlor	GC16	A	03/14/06 00:21
185457-005	Endrin ketone	GC16	A	03/14/06 00:21
185457-005	Toxaphene	GC16	B	03/14/06 00:21
185457-005	TCMX	GC16	A	03/14/06 00:21
185457-005	Decachlorobiphenyl	GC16	A	03/14/06 00:21
185457-006	alpha-BHC	GC16	B	03/14/06 00:50
185457-006	beta-BHC	GC16	A	03/14/06 00:50
185457-006	gamma-BHC	GC16	A	03/14/06 00:50
185457-006	delta-BHC	GC16	A	03/14/06 00:50
185457-006	Heptachlor	GC16	A	03/14/06 00:50
185457-006	Aldrin	GC16	A	03/14/06 00:50
185457-006	Heptachlor epoxide	GC16	A	03/14/06 00:50
185457-006	Endosulfan I	GC16	A	03/14/06 00:50
185457-006	Dieldrin	GC16	A	03/14/06 00:50
185457-006	4,4'-DDE	GC16	A	03/14/06 00:50
185457-006	Endrin	GC16	A	03/14/06 00:50
185457-006	Endosulfan II	GC16	A	03/14/06 00:50
185457-006	Endosulfan sulfate	GC16	A	03/14/06 00:50
185457-006	4,4'-DDD	GC16	A	03/14/06 00:50
185457-006	4,4'-DDT	GC16	A	03/14/06 00:50
185457-006	alpha-Chlordane	GC16	A	03/14/06 00:50
185457-006	gamma-Chlordane	GC16	A	03/14/06 00:50
185457-006	Methoxychlor	GC16	A	03/14/06 00:50
185457-006	Endrin ketone	GC16	A	03/14/06 00:50
185457-006	Toxaphene	GC16	B	03/14/06 00:50
185457-006	TCMX	GC16	A	03/14/06 00:50
185457-006	Decachlorobiphenyl	GC16	A	03/14/06 00:50
185457-007	alpha-BHC	GC16	B	03/14/06 01:19
185457-007	beta-BHC	GC16	A	03/14/06 01:19
185457-007	gamma-BHC	GC16	A	03/14/06 01:19
185457-007	delta-BHC	GC16	A	03/14/06 01:19
185457-007	Heptachlor	GC16	A	03/14/06 01:19
185457-007	Aldrin	GC16	A	03/14/06 01:19
185457-007	Heptachlor epoxide	GC16	A	03/14/06 01:19
185457-007	Endosulfan I	GC16	A	03/14/06 01:19
185457-007	Dieldrin	GC16	A	03/14/06 01:19
185457-007	4,4'-DDE	GC16	A	03/14/06 01:19
185457-007	Endrin	GC16	A	03/14/06 01:19
185457-007	Endosulfan II	GC16	A	03/14/06 01:19
185457-007	Endosulfan sulfate	GC16	A	03/14/06 01:19
185457-007	4,4'-DDD	GC16	A	03/14/06 01:19
185457-007	4,4'-DDT	GC16	A	03/14/06 01:19
185457-007	alpha-Chlordane	GC16	A	03/14/06 01:19

REPORTING SUMMARY FOR 185457 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185457-007	gamma-Chlordane	GC16	A	03/14/06 01:19
185457-007	Methoxychlor	GC16	A	03/14/06 01:19
185457-007	Endrin ketone	GC16	A	03/14/06 01:19
185457-007	Toxaphene	GC16	B	03/14/06 01:19
185457-007	TCMX	GC16	A	03/14/06 01:19
185457-007	Decachlorobiphenyl	GC16	A	03/14/06 01:19
185457-008	alpha-BHC	GC16	B	03/14/06 01:48
185457-008	beta-BHC	GC16	A	03/14/06 01:48
185457-008	gamma-BHC	GC16	A	03/14/06 01:48
185457-008	delta-BHC	GC16	A	03/14/06 01:48
185457-008	Heptachlor	GC16	A	03/14/06 01:48
185457-008	Aldrin	GC16	A	03/14/06 01:48
185457-008	Heptachlor epoxide	GC16	A	03/14/06 01:48
185457-008	Endosulfan I	GC16	A	03/14/06 01:48
185457-008	Dieldrin	GC16	A	03/14/06 01:48
185457-008	4,4'-DDE	GC16	A	03/14/06 01:48
185457-008	Endrin	GC16	A	03/14/06 01:48
185457-008	Endosulfan II	GC16	A	03/14/06 01:48
185457-008	Endosulfan sulfate	GC16	A	03/14/06 01:48
185457-008	4,4'-DDD	GC16	A	03/14/06 01:48
185457-008	4,4'-DDT	GC16	A	03/14/06 01:48
185457-008	alpha-Chlordane	GC16	A	03/14/06 01:48
185457-008	gamma-Chlordane	GC16	A	03/14/06 01:48
185457-008	Methoxychlor	GC16	A	03/14/06 01:48
185457-008	Endrin ketone	GC16	A	03/14/06 01:48
185457-008	Toxaphene	GC16	B	03/14/06 01:48
185457-008	TCMX	GC16	A	03/14/06 01:48
185457-008	Decachlorobiphenyl	GC16	A	03/14/06 01:48
185457-016	alpha-BHC	GC21	A	03/15/06 22:09
185457-016	beta-BHC	GC21	A	03/15/06 22:09
185457-016	gamma-BHC	GC21	A	03/15/06 22:09
185457-016	delta-BHC	GC21	A	03/15/06 22:09
185457-016	Heptachlor	GC21	A	03/15/06 22:09
185457-016	Aldrin	GC21	A	03/15/06 22:09
185457-016	Heptachlor epoxide	GC21	A	03/15/06 22:09
185457-016	Endosulfan I	GC21	A	03/15/06 22:09
185457-016	Dieldrin	GC21	A	03/15/06 22:09
185457-016	4,4'-DDE	GC21	A	03/15/06 22:09
185457-016	Endrin	GC21	A	03/15/06 22:09
185457-016	Endosulfan II	GC21	A	03/15/06 22:09
185457-016	Endosulfan sulfate	GC21	A	03/15/06 22:09
185457-016	4,4'-DDD	GC21	A	03/15/06 22:09
185457-016	4,4'-DDT	GC21	A	03/15/06 22:09
185457-016	alpha-Chlordane	GC21	A	03/15/06 22:09
185457-016	gamma-Chlordane	GC21	A	03/15/06 22:09
185457-016	Methoxychlor	GC21	A	03/15/06 22:09
185457-016	Endrin ketone	GC21	A	03/15/06 22:09
185457-016	Toxaphene	GC21	A	03/15/06 22:09
185457-016	TCMX	GC21	A	03/15/06 22:09
185457-016	Decachlorobiphenyl	GC21	A	03/15/06 22:09
QC331124	alpha-BHC	GC16	B	03/13/06 19:04

REPORTING SUMMARY FOR 185457 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC331124	beta-BHC	GC16	B	03/13/06 19:04
QC331124	gamma-BHC	GC16	B	03/13/06 19:04
QC331124	delta-BHC	GC16	B	03/13/06 19:04
QC331124	Heptachlor	GC16	B	03/13/06 19:04
QC331124	Aldrin	GC16	B	03/13/06 19:04
QC331124	Heptachlor epoxide	GC16	B	03/13/06 19:04
QC331124	Endosulfan I	GC16	B	03/13/06 19:04
QC331124	Dieldrin	GC16	B	03/13/06 19:04
QC331124	4,4'-DDE	GC16	B	03/13/06 19:04
QC331124	Endrin	GC16	B	03/13/06 19:04
QC331124	Endosulfan II	GC16	B	03/13/06 19:04
QC331124	Endosulfan sulfate	GC16	B	03/13/06 19:04
QC331124	4,4'-DDD	GC16	B	03/13/06 19:04
QC331124	4,4'-DDT	GC16	B	03/13/06 19:04
QC331124	alpha-Chlordane	GC16	B	03/13/06 19:04
QC331124	gamma-Chlordane	GC16	B	03/13/06 19:04
QC331124	Methoxychlor	GC16	B	03/13/06 19:04
QC331124	Endrin ketone	GC16	B	03/13/06 19:04
QC331124	Toxaphene	GC16	B	03/13/06 19:04
QC331124	TCMX	GC16	B	03/13/06 19:04
QC331124	Decachlorobiphenyl	GC16	B	03/13/06 19:04
QC331125	gamma-BHC	GC16	B	03/13/06 19:32
QC331125	Heptachlor	GC16	B	03/13/06 19:32
QC331125	Aldrin	GC16	B	03/13/06 19:32
QC331125	Dieldrin	GC16	B	03/13/06 19:32
QC331125	Endrin	GC16	B	03/13/06 19:32
QC331125	4,4'-DDT	GC16	B	03/13/06 19:32
QC331125	TCMX	GC16	B	03/13/06 19:32
QC331125	Decachlorobiphenyl	GC16	B	03/13/06 19:32
QC331126	gamma-BHC	GC16	B	03/13/06 20:01
QC331126	Heptachlor	GC16	B	03/13/06 20:01
QC331126	Aldrin	GC16	B	03/13/06 20:01
QC331126	Dieldrin	GC16	B	03/13/06 20:01
QC331126	Endrin	GC16	B	03/13/06 20:01
QC331126	4,4'-DDT	GC16	B	03/13/06 20:01
QC331126	TCMX	GC16	B	03/13/06 20:01
QC331126	Decachlorobiphenyl	GC16	B	03/13/06 20:01
QC331476	alpha-BHC	GC21	A	03/15/06 21:17
QC331476	beta-BHC	GC21	A	03/15/06 21:17
QC331476	gamma-BHC	GC21	A	03/15/06 21:17
QC331476	delta-BHC	GC21	A	03/15/06 21:17
QC331476	Heptachlor	GC21	A	03/15/06 21:17
QC331476	Aldrin	GC21	A	03/15/06 21:17
QC331476	Heptachlor epoxide	GC21	A	03/15/06 21:17
QC331476	Endosulfan I	GC21	A	03/15/06 21:17
QC331476	Dieldrin	GC21	A	03/15/06 21:17
QC331476	4,4'-DDE	GC21	A	03/15/06 21:17
QC331476	Endrin	GC21	A	03/15/06 21:17
QC331476	Endosulfan II	GC21	A	03/15/06 21:17
QC331476	Endosulfan sulfate	GC21	A	03/15/06 21:17
QC331476	4,4'-DDD	GC21	A	03/15/06 21:17

REPORTING SUMMARY FOR 185457 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC331476	4,4'-DDT	GC21	A	03/15/06 21:17
QC331476	alpha-Chlordane	GC21	A	03/15/06 21:17
QC331476	gamma-Chlordane	GC21	A	03/15/06 21:17
QC331476	Methoxychlor	GC21	A	03/15/06 21:17
QC331476	Endrin ketone	GC21	A	03/15/06 21:17
QC331476	Toxaphene	GC21	A	03/15/06 21:17
QC331476	TCMX	GC21	A	03/15/06 21:17
QC331476	Decachlorobiphenyl	GC21	A	03/15/06 21:17
QC331477	gamma-BHC	GC21	A	03/15/06 21:34
QC331477	Heptachlor	GC21	A	03/15/06 21:34
QC331477	Aldrin	GC21	A	03/15/06 21:34
QC331477	Dieldrin	GC21	A	03/15/06 21:34
QC331477	Endrin	GC21	A	03/15/06 21:34
QC331477	4,4'-DDT	GC21	A	03/15/06 21:34
QC331477	TCMX	GC21	A	03/15/06 21:34
QC331477	Decachlorobiphenyl	GC21	A	03/15/06 21:34
QC331478	gamma-BHC	GC21	A	03/15/06 22:26
QC331478	Heptachlor	GC21	A	03/15/06 22:26
QC331478	Aldrin	GC21	A	03/15/06 22:26
QC331478	Dieldrin	GC21	A	03/15/06 22:26
QC331478	Endrin	GC21	A	03/15/06 22:26
QC331478	4,4'-DDT	GC21	A	03/15/06 22:26
QC331478	TCMX	GC21	A	03/15/06 22:26
QC331478	Decachlorobiphenyl	GC21	A	03/15/06 22:26
QC331479	gamma-BHC	GC21	A	03/15/06 22:43
QC331479	Heptachlor	GC21	A	03/15/06 22:43
QC331479	Aldrin	GC21	A	03/15/06 22:43
QC331479	Dieldrin	GC21	A	03/15/06 22:43
QC331479	Endrin	GC21	A	03/15/06 22:43
QC331479	4,4'-DDT	GC21	A	03/15/06 22:43
QC331479	TCMX	GC21	A	03/15/06 22:43
QC331479	Decachlorobiphenyl	GC21	A	03/15/06 22:43
QC331480	gamma-BHC	GC21	A	03/15/06 23:01
QC331480	Heptachlor	GC21	A	03/15/06 23:01
QC331480	Aldrin	GC21	A	03/15/06 23:01
QC331480	Dieldrin	GC21	A	03/15/06 23:01
QC331480	Endrin	GC21	A	03/15/06 23:01
QC331480	4,4'-DDT	GC21	A	03/15/06 23:01
QC331480	TCMX	GC21	A	03/15/06 23:01
QC331480	Decachlorobiphenyl	GC21	A	03/15/06 23:01
QC331481	gamma-BHC	GC21	A	03/15/06 23:18
QC331481	Heptachlor	GC21	A	03/15/06 23:18
QC331481	Aldrin	GC21	A	03/15/06 23:18
QC331481	Dieldrin	GC21	A	03/15/06 23:18
QC331481	Endrin	GC21	A	03/15/06 23:18
QC331481	4,4'-DDT	GC21	A	03/15/06 23:18
QC331481	TCMX	GC21	A	03/15/06 23:18
QC331481	Decachlorobiphenyl	GC21	A	03/15/06 23:18

Curtis & Tompkins Laboratories **Sample Preparation Summary** **12-MAR-2006 14:58**

Batch Number : 111219
Date Extracted: 12-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : 8081
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2719B
Spike #2 ID : S2744F
Spike #3 ID :
SOP Version : 8081w_rv14

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185457-001		Treadwell & Rollo	Water	1030	mL	10mL	0.000000	1	6	.02	0		8081		
185457-002		Treadwell & Rollo	Water	1050	mL		0.000000	1	6	.02	0		8081		
185457-005		Treadwell & Rollo	Water	1050	mL		0.000000	1	6	.02	0		8081		
185457-006		Treadwell & Rollo	Water	1050	mL		0.000000	1	6	.02	0		8081		
185457-007		Treadwell & Rollo	Water	1060	mL		0.000000	1	6	.02	0		8081		
185457-008		Treadwell & Rollo	Water	1020	mL		0.000000	1	6	.02	0		8081		
185468-001		LFR Levine Fricke	Water	1050	mL		0.000000	1	5	.02	0		8081		
185468-003		LFR Levine Fricke	Water	1050	mL		0.000000	1	5	.02	0		8081		
185468-004		LFR Levine Fricke	Water	1010	mL		0.000000	1	5	.02	0		8081		
185468-005		LFR Levine Fricke	Water	1060	mL		0.000000	1	6	.02	0		8081		
185468-006		LFR Levine Fricke	Water	1060	mL		0.000000	1	5	.02	0		8081		
QC331124	BLANK		Water	1000	mL		0.000000	1		.02	0		8081		
QC331125	BS		Water	1000	mL		0.000000	1		.02	.025		8081		
QC331126	BSD		Water	1000	mL		0.000000	1		.02	.025		8081		

mcm 3/15/06

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Prep Chemist: SK for JM Reviewed By: [signature] Date: 03/14/06

Relinquished By: SK for MJL Received By: [signature] Date: 3/15/06

Curtis & Tompkins Laboratories **Sample Preparation Summary** **15-MAR-2006 17:27**

Batch Number : 111219
Date Extracted: 12-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : 8081
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2719B
Spike #2 ID : S2744F
Spike #3 ID :
SOP Version : 8081w_rv14

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185457-001		Treadwell & Rollo	Water	1030	mL	10	0.009709	1	6	.02	0		8081		
185457-002		Treadwell & Rollo	Water	1050	mL	10	0.009524	1	6	.02	0		8081		
185457-005		Treadwell & Rollo	Water	1050	mL	10	0.009524	1	6	.02	0		8081		
185457-006		Treadwell & Rollo	Water	1050	mL	10	0.009524	1	6	.02	0		8081		
185457-007		Treadwell & Rollo	Water	1060	mL	10	0.009434	1	6	.02	0		8081		
185457-008		Treadwell & Rollo	Water	1020	mL	10	0.009804	1	6	.02	0		8081		
185468-001		LFR Levine Fricke	Water	1050	mL	10	0.009524	1	5	.02	0		8081		
185468-003		LFR Levine Fricke	Water	1050	mL	10	0.009524	1	5	.02	0		8081		
185468-004		LFR Levine Fricke	Water	1010	mL	10	0.009901	1	5	.02	0		8081		
185468-005		LFR Levine Fricke	Water	1060	mL	10	0.009434	1	6	.02	0		8081		
185468-006		LFR Levine Fricke	Water	1060	mL	10	0.009434	1	5	.02	0		8081		
QC331124	BLANK		Water	1000	mL	10	0.010000	1		.02	0		8081		
QC331125	BS		Water	1000	mL	10	0.010000	1		.02	.025		8081		
QC331126	BSD		Water	1000	mL	10	0.010000	1		.02	.025		8081		

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Prep Chemist: _____ Reviewed By: _____ Date: _____

Relinquished By: _____ Received By: _____ Date: _____

Curtis & Tompkins, Ltd

8081 WATER PE

BK2210

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LIMS Batch No: 111219
LIMS Analysis: 8081
Extracted by: JOM
Date Extracted: 12 Mar 06

Extraction Method:
☐ EPA 3510c se
☒ EPA 3520c co
☐

Cleanup Method (if needed):
☐ EPA 3640a GPC
☐ EPA 3620b Florisil
☐

Sample # & letter	Volume of Sample (mL)	Sample pH	Vol	Cleanup (x if needed)	Comments
185457-001 I	1030	6	10		
02	JOM 3/12/06 1040 1050				
05					
06					
07	1060				
08	1020				
185468-001 E	1050	5			sediment
03	1050				
04	1010				
05	1060	6			
06	1060	5			
MB QC331124	1000	NA			
BS 25					
BSD 26					

JOM 3/12/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.02 mL of surrogate solution was added to all sample	2714B	JOM 3/12/06
0.025 mL of matrix spike solution was added to all spike	2744F	
☒ Samples continuously extracted with about 450 mL of CH_2Cl_2	EM4014	
Extraction Start Time:	1215	SHO 3/13
Extraction End Time:	0750	SHO 3/13/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	~~N=451180537~~ SKK 03/15/06	NA
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	EM451180537	SKK FOR KTM 03/15/06
Exchanged 2x with Hexane	CL890	
Concentrated: ☐ to volumes as noted above ☒ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Florisil	NA	

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Continued on Page —

Extraction Chemist Date 3/12/06

Reviewed by Date 3/14/06

Curtis & Tompkins Laboratories Sample Preparation Summary 15-MAR-2006 15:54

Batch Number : 111300
Date Extracted: 14-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : 8081
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2719A
Spike #2 ID : S2744B
Spike #3 ID :
SOP Version : 8081w_rv14

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185408-008			Treadwell & Rollo	Water	1020	mL	10	0.009804	1	5	.02	0		8081		
185457-016			Treadwell & Rollo	Water	1030	mL	10	0.009709	1	5	.02	0		8081		
QC331476	BLANK			Water	1000	mL	10	0.010000	1		.02	0		8081		
QC331477	LCS			Water	1000	mL	10	0.010000	1		.02	.025		8081		
QC331478	MS	of 185408-008		Water	1020	mL	10	0.009804	1	5	.02	.025		8081		
QC331479	MSD	of 185408-008		Water	1020	mL	10	0.009804	1	5	.02	.025		8081		
QC331480	MS	of 185457-016		Water	1030	mL	10	0.009709	1	5	.02	.025		8081		
QC331481	MSD	of 185457-016		Water	1030	mL	10	0.009709	1	5	.02	.025		8081		

Prep Chemist: Jessie Mee Reviewed By: [signature] Date: 03/16/06

Relinquished By: [signature] Received By: [signature] Date: 3/17/06

Curtis & Tompkins, Ltd

8081 WATER PREP LOG

BK2210

LIMS Batch No: 111300
LIMS Analysis: 8081
Extracted by: JDM
Date Extracted: 14 Mar 06

Extraction Method:
- ☐ EPA 3510c sep. funnel
- ☒ EPA 3520c cont. L/L
- ☐ _____

Cleanup Method (if needed):
- ☐ EPA 3640a GPC
- ☐ EPA 3620b Florisil
- ☐ _____

	Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
	185408-008 AL	1020	5	10.0		MSS
	185457-016 Y	1030	5			MSS
	MB QC3314 ~~77~~ 76	1000	NA			
	LCS 78 77	1000				
5	MS 78	1020	5			185408-008 AQ
	MSD 79	1020				AR
	MS 80	1030				185457-016 Z
	MSD 81	1030				AA
10						
15						
20						

JDM 3/14/06

3/15/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.02 mL of surrogate **solution** was added to all samples	S2719A	JDM 3/14/06
0.025 mL of matrix spiking **solution** was added to all spikes	S2744B	
☒ Samples continuously extracted **with about** 450 mL of CH_2Cl_2	EM46014	
Extraction Start Time:	1455	
Extraction End Time:	0900	DLM 3/15/06
☐ Samples were **extracted 3 times with 60** mL of CH_2Cl_2	N/A	SFL 3/15/06
Extracts filtered through **baked**, CH_2Cl_2-rinsed ~~powdered~~ granular Na_2SO_4	EM451185 32	
Exchanged 2x with Hexane	CP890	
Concentrated: ☑ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Florisil	N/A	

Jennifer Lee 3/14/06
Extraction Chemist **Date**

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03/22/06
Reviewed by **Date**

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8081A Water
As of 04/06/06

Analyte	Units	GC21 A	GC21 B	GC16 A	GC16 B	GC23 A	GC23 B
gamma-BHC	ug/L	0.0065	0.0039	0.0032	0.0025	0.0029	0.0039
Heptachlor	ug/L	0.0083	0.0056	0.0057	0.0061	0.0029	0.0055
Aldrin	ug/L	0.0094	0.0070	0.0066	0.0066	0.0062	0.0077
Dieldrin	ug/L	0.011	0.0051	0.0074	0.0070	0.0041	0.0097
Endrin	ug/L	0.012	0.011	0.0095	0.0083	0.0054	0.011
4,4'-DDT	ug/L	0.012	0.0071	0.011	0.0099	0.0088	0.0087
alpha-BHC	ug/L	0.0063	0.0040	0.0029	0.0027	0.0032	0.0049
beta-BHC	ug/L	0.0061	0.011	0.0033	0.0052	0.0029	0.0055
delta-BHC	ug/L	0.0065	0.0023	0.0040	0.0026	0.0018	0.0041
Heptachlor epoxide	ug/L	0.0066	0.0097	0.0033	0.0032	0.0028	0.0044
gamma-Chlordane	ug/L	0.0064	0.011	0.0041	0.0037	0.0020	0.0042
alpha-Chlordane	ug/L	0.010	0.0052	0.0045	0.0036	0.0023	0.0052
Endosulfan I	ug/L	0.0062	0.0033	0.0043	0.0032	0.0026	0.0048
4,4'-DDE	ug/L	0.011	0.0057	0.010	0.0082	0.0045	0.0097
Endosulfan II	ug/L	0.013	0.0077	0.0088	0.0073	0.0066	0.0097
Endosulfan sulfate	ug/L	0.0096	0.0054	0.015	0.0087	0.0054	0.0093
4,4'-DDD	ug/L	0.011	0.0096	0.0088	0.0090	0.0033	0.010
Endrin aldehyde	ug/L	0.010	0.0092	0.0084	0.0086	0.0052	0.0088
Chlordane (Technical)	ug/L	0.26	0.21	0.19	0.19	0.17	0.21
Methoxychlor	ug/L	0.050	0.018	0.057	0.080	0.043	0.051
Endrin ketone	ug/L	0.0083	0.023	0.027	0.0095	0.0051	0.015
Toxaphene	ug/L	0.47	0.32	0.16	0.58	0.55	0.49

PCBs

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Field ID:	1349MW02	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/16/06
Diln Fac:	1.000	Analyzed:	03/19/06
Batch#:	111385		

Type: SAMPLE Cleanup Method: EPA 3665A
Lab ID: 185457-016

Analyte	Result	RL
Aroclor-1016	ND	0.48
Aroclor-1221	ND	0.95
Aroclor-1232	ND	0.48
Aroclor-1242	ND	0.48
Aroclor-1248	ND	0.48
Aroclor-1254	ND	0.48
Aroclor-1260	ND	0.48

Surrogate	%REC	Limits
TCMX	98	65-135
Decachlorobiphenyl	101	65-135

Type: BLANK Cleanup Method: EPA 3665A
Lab ID: QC331819

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	91	65-135
Decachlorobiphenyl	94	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331820	Batch#:	111385
Matrix:	Water	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/19/06

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	10.00	8.157	82	60-140

Surrogate	%REC	Limits
TCMX	83	65-135
Decachlorobiphenyl	99	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Field ID:	1349MW02	Batch#:	111385
MSS Lab ID:	185457-016	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/16/06
Diln Fac:	1.000	Analyzed:	03/19/06

Type: MS Cleanup Method: EPA 3665A
Lab ID: QC331821

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1221	<0.2931	9.524	8.521	89	55-148

Surrogate	%REC	Limits
TCMX	110	65-135
Decachlorobiphenyl	103	65-135

Type: MSD Cleanup Method: EPA 3665A
Lab ID: QC331822

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1221	9.524	8.966	94	55-148	5	30

Surrogate	%REC	Limits
TCMX	117	65-135
Decachlorobiphenyl	110	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185457 PCBS Water: EPA 8082

Inst : GC06
Calnum : 206104291001
Units : pg

Name : ar1660
Date : 14-MAR-2006 02:43
X Axis : R

Reviewer: MCH
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	072_023	206104291023	pcb10_2	14-MAR-2006 02:43	S2097
L2	072_024	206104291024	pcb25_5	14-MAR-2006 03:11	S2098
L3	072_025	206104291025	pcb100_20	14-MAR-2006 03:38	S2099
L4	072_026	206104291026	pcb250_50	14-MAR-2006 04:06	S2770
L5	072_027	206104291027	pcb500_100	14-MAR-2006 04:33	S2771
L6	072_028	206104291028	pcb750_150	14-MAR-2006 05:01	S2102
L7	072_029	206104291029	pcb1000_200	14-MAR-2006 05:28	S2103

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aroclor-1016 Peak # 1	A	262.90	263.32	207.59	213.22	159.60	190.68	201.74	AVRG		0.00467		214.15	18	.99	20	
Aroclor-1016 Peak # 2	A	534.30	533.44	428.73	424.42	310.84	377.38	372.88	AVRG		0.00235		426.00	20	.99	20	
Aroclor-1016 Peak # 3	A	289.50	304.52	254.55	268.99	199.29	260.55	266.02	AVRG		0.00380		263.35	13	.99	20	
Aroclor-1016 Peak # 4	A	143.80	162.44	141.82	155.55	120.78	163.55	168.15	AVRG		0.00663		150.87	11	.99	20	
Aroclor-1016 Peak # 5	A	267.10	279.64	233.49	246.30	181.95	226.36	229.76	AVRG		0.00421		237.80	13	.99	20	
Aroclor-1260 Peak # 1	A	585.20	577.60	470.23	479.09	347.28	429.21	440.04	AVRG		0.00210		475.52	18	.99	20	
Aroclor-1260 Peak # 2	A	772.00	794.24	632.12	660.89	480.88	610.25	630.48	AVRG		0.00153		654.41	16	.99	20	
Aroclor-1260 Peak # 3	A	505.30	636.68	521.23	587.44	441.53	598.97	634.89	AVRG		0.00178		560.86	13	.99	20	
Aroclor-1260 Peak # 4	A	771.30	756.56	621.98	691.01	520.81	676.27	733.70	AVRG		0.00147		681.66	13	.99	20	
Aroclor-1260 Peak # 5	A	404.60	373.00	305.67	352.34	264.20	359.09	401.08	AVRG		0.00285		351.43	14	.99	20	
TCMX	A	7495.0	7536.8	6785.5	7954.7	6358.4	8370.8	8499.6	AVRG		1.32E-4		7571.5	10	.99	20	
Decachlorobiphenyl	A	9475.0	9992.0	8011.5	8905.5	6413.3	7766.5	8083.4	AVRG		1.19E-4		8378.2	14	.99	20	
Aroclor-1016 Peak # 1	B	171.90	164.00	135.67	144.30	109.22	137.52	139.21	AVRG		0.00699		143.12	14	.99	20	
Aroclor-1016 Peak # 2	B	218.10	210.76	175.96	184.10	138.35	177.10	178.23	AVRG		0.00546		183.23	14	.99	20	
Aroclor-1016 Peak # 3	B	493.40	484.40	391.11	441.40	339.29	474.04	499.59	AVRG		0.00224		446.18	14	.99	20	
Aroclor-1016 Peak # 4	B	251.70	244.08	204.19	218.89	163.92	215.68	223.32	AVRG		0.00460		217.40	13	.99	20	
Aroclor-1016 Peak # 5	B	155.30	161.36	134.01	139.58	101.86	128.66	130.05	AVRG		0.00736		135.83	14	.99	20	
Aroclor-1260 Peak # 1	B	412.60	449.84	356.44	373.21	273.01	344.08	355.21	AVRG		0.00273		366.34	15	.99	20	
Aroclor-1260 Peak # 2	B	279.40	205.84	231.57	247.06	180.64	213.19	236.33	AVRG		0.00439		227.72	14	.99	20	
Aroclor-1260 Peak # 3	B	264.10	267.40	220.72	240.41	178.12	230.78	248.81	AVRG		0.00424		235.76	13	.99	20	
Aroclor-1260 Peak # 4	B	493.40	528.32	443.66	499.70	380.76	501.69	554.38	AVRG		0.00206		485.99	12	.99	20	
Aroclor-1260 Peak # 5	B	241.00	248.40	211.88	242.96	186.05	258.49	283.67	AVRG		0.00419		238.92	13	.99	20	
TCMX	B	5011.5	5017.0	4667.7	5721.1	4666.5	6254.1	6443.1	AVRG		1.85E-4		5397.3	14	.99	20	
Decachlorobiphenyl	B	6621.0	6988.4	5649.0	6453.9	4623.1	5632.8	6084.9	AVRG		1.66E-4		6007.6	13	.99	20	

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AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185457 PCBS Water
EPA 8082

Inst : GC06 Name : ar1660
Calnum : 206104291001 Cal Date: 14-MAR-2006

ICV 206104291031 (072_031 14-MAR-2006) stds: S2181

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Aroclor-1016	A	250.0	235.5	pg	-6	15	
Aroclor-1260	A	250.0	237.4	pg	-5	15	
Aroclor-1016	B	250.0	228.0	pg	-9	15	
Aroclor-1260	B	250.0	258.1	pg	3	15	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185457 PCBS Water: EPA 8082

Inst : GC06
Calnum : 206105777001
Units : pg

Name : ar2154
Date : 14-MAR-2006 12:47
X Axis : R

Reviewer: MCH
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	073_005	206105777005	ar2154	14-MAR-2006 12:47	S2665

Analyte	Ch	L1	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aroclor-1221 Peak # 1	A	102.87	AVRG		0.00972		102.87	0	.99	20	
Aroclor-1221 Peak # 2	A	74.896	AVRG		0.01335		74.896	0	.99	20	
Aroclor-1221 Peak # 3	A	297.17	AVRG		0.00337		297.17	0	.99	20	
Aroclor-1221 Peak # 4	A	38.624	AVRG		0.02589		38.624	0	.99	20	
Aroclor-1221 Peak # 5	A	37.568	AVRG		0.02662		37.568	0	.99	20	
Aroclor-1254 Peak # 1	A	334.31	AVRG		0.00299		334.31	0	.99	20	
Aroclor-1254 Peak # 2	A	433.24	AVRG		0.00231		433.24	0	.99	20	
Aroclor-1254 Peak # 3	A	308.04	AVRG		0.00325		308.04	0	.99	20	
Aroclor-1254 Peak # 4	A	521.41	AVRG		0.00192		521.41	0	.99	20	
Aroclor-1254 Peak # 5	A	357.48	AVRG		0.00280		357.48	0	.99	20	
Aroclor-1221 Peak # 1	B	73.132	AVRG		0.01367		73.132	0	.99	20	
Aroclor-1221 Peak # 2	B	66.468	AVRG		0.01504		66.468	0	.99	20	434
Aroclor-1221 Peak # 3	B	57.244	AVRG		0.01747		57.244	0	.99	20	
Aroclor-1221 Peak # 4	B	204.03	AVRG		0.00490		204.03	0	.99	20	
Aroclor-1221 Peak # 5	B	41.372	AVRG		0.02417		41.372	0	.99	20	
Aroclor-1254 Peak # 1	B	282.06	AVRG		0.00355		282.06	0	.99	20	
Aroclor-1254 Peak # 2	B	321.39	AVRG		0.00311		321.39	0	.99	20	
Aroclor-1254 Peak # 3	B	192.23	AVRG		0.00520		192.23	0	.99	20	
Aroclor-1254 Peak # 4	B	385.57	AVRG		0.00259		385.57	0	.99	20	
Aroclor-1254 Peak # 5	B	262.24	AVRG		0.00381		262.24	0	.99	20	

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185457 PCBS Water
EPA 8082

Inst : GC06 Run Name: pcb500_100 IDF : 1.0
Seqnum : 206110134004 File : 076_004 Time : 19-MAR-2006 12:07
Cal : 206104291001 Caldate : 14-MAR-2006
Standards: S2101

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aroclor-1016	A			500.0	470.1	pg	-6	15	
Aroclor-1260	A			500.0	456.6	pg	-9	15	
TCMX	A	7571.5	7929.2	100.0	104.7	pg	5	15	
Decachlorobiphenyl	A	8378.2	7174.4	100.0	85.63	pg	-14	15	
Aroclor-1016	B			500.0	465.5	pg	-7	15	
Aroclor-1260	B			500.0	456.7	pg	-9	15	
TCMX	B	5397.3	5824.7	100.0	107.9	pg	8	15	
Decachlorobiphenyl	B	6007.6	5495.8	100.0	91.48	pg	-9	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185457 PCBS Water
EPA 8082

Inst : GC06 Run Name: ar2154 IDF : 1.0
Seqnum : 206110134006 File : 076_006 Time : 19-MAR-2006 13:02
Cal : 206105777001 Caldate : 14-MAR-2006
Standards: S2665

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aroclor-1221	A	250.0	239.5	pg	-4	15	
Aroclor-1254	A	250.0	238.6	pg	-5	15	
Aroclor-1221	B	250.0	248.5	pg	-1	15	
Aroclor-1254	B	250.0	236.2	pg	-6	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185457 PCBS Water
EPA 8082

Inst : GC06 Run Name: pcb250_50 IDF : 1.0
Seqnum : 206110134020 File : 076_020 Time : 19-MAR-2006 19:27
Cal : 206104291001 Caldate : 14-MAR-2006
Standards: S2770

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aroclor-1016	A			250.0	258.7	pg	3	15	
Aroclor-1260	A			250.0	232.6	pg	-7	15	
TCMX	A	7571.5	8311.9	50.00	54.89	pg	10	15	
Decachlorobiphenyl	A	8378.2	7370.1	50.00	43.98	pg	-12	15	
Aroclor-1016	B			250.0	257.6	pg	3	15	
Aroclor-1260	B			250.0	222.7	pg	-11	15	
TCMX	B	5397.3	5974.2	50.00	55.34	pg	11	15	
Decachlorobiphenyl	B	6007.6	5345.6	50.00	44.49	pg	-11	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185457 PCBS Water
EPA 8082

Inst : GC06 Run Name: ar2154 IDF : 1.0
Seqnum : 206110134022 File : 076_022 Time : 19-MAR-2006 20:22
Cal : 206105777001 Caldate : 14-MAR-2006
Standards: S2665

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aroclor-1221	A	250.0	241.7	pg	-3	15	
Aroclor-1254	A	250.0	225.6	pg	-10	15	
Aroclor-1221	B	250.0	235.0	pg	-6	15	
Aroclor-1254	B	250.0	230.3	pg	-8	15	

SEQUENCE SUMMARY FOR 185457 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206104291 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 13-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	072_001	X	hex			13-MAR-2006 10:11	1.0						
002	072_002	X	pcb250_50			13-MAR-2006 10:38	1.0					1	
003	072_003	X	ccv			13-MAR-2006 11:06	1.0					1	
004	072_004	X	hex			13-MAR-2006 11:43	1.0						
005	072_005	X	pcb250_50			13-MAR-2006 12:10	1.0					1	
006	072_006	CCV	pcb250_50			13-MAR-2006 12:38	1.0	1.0			1	1	
007	072_007	CCV	ar2154			13-MAR-2006 19:24	1.0	1.0			1	2	
008	072_008	X	ccv			13-MAR-2006 19:51	1.0					2	
009	072_009	X	hex			13-MAR-2006 20:19	1.0						
010	072_010	BLANK	QC331127	111220	Water	13-MAR-2006 20:46	1.0	0.025	1	1	1		
011	072_011	BS	QC331128	111220	Water	13-MAR-2006 21:14	1.0	0.025		2	1		
012	072_012	BSD	QC331129	111220	Water	13-MAR-2006 21:41	1.0	0.025		2	1		
013	072_013	SAMPLE	185464-001	111220	Water	13-MAR-2006 22:08	1.0	0.02381	18		1	sh	
014	072_014	SAMPLE	185327-003	111144	Soil	13-MAR-2006 22:36	1.0	0.8333	1		1		
015	072_015	SAMPLE	185327-004	111144	Soil	13-MAR-2006 23:03	1.0	0.8336	1		1		439
016	072_016	X	hex			13-MAR-2006 23:31	1.0						
017	072_017	CCV	pcb750_150			13-MAR-2006 23:58	1.0	1.0	1		1	3	
018	072_018	X	ccv			14-MAR-2006 00:26	2102						
019	072_019	CCV	ar2154			14-MAR-2006 00:53	1.0	1.0			1	2	
020	072_020	X	ccv			14-MAR-2006 01:21	1.0					2	
021	072_021	X	hex			14-MAR-2006 01:48	1.0						
022	072_022	X	hex			14-MAR-2006 02:16	1.0						
023	072_023	ICAL	pcb10_2			14-MAR-2006 02:43	1.0	1.0				4	
024	072_024	ICAL	pcb25_5			14-MAR-2006 03:11	1.0	1.0				5	
025	072_025	ICAL	pcb100_20			14-MAR-2006 03:38	1.0	1.0				6	
026	072_026	ICAL	pcb250_50			14-MAR-2006 04:06	1.0	1.0				1	
027	072_027	ICAL	pcb500_100			14-MAR-2006 04:33	1.0	1.0				7	
028	072_028	ICAL	pcb750_150			14-MAR-2006 05:01	1.0	1.0				3	
029	072_029	ICAL	pcb1000_200			14-MAR-2006 05:28	1.0	1.0				8	
030	072_030	X	hex			14-MAR-2006 05:55	1.0						

Stds used: 1=S2770 2=S2665 3=S2102 4=S2097 5=S2098 6=S2099 7=S2771 8=S2103 9=S2181
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 185457 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206104291 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 13-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
031	072_031	ICV	ultra_1660			14-MAR-2006 06:23	1.0	1.0		1	9	
032	072_032	X	icv			14-MAR-2006 06:51	1.0				9	
033	072_033	X	hex			14-MAR-2006 07:18	1.0					

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Stds used: 1=S2770 2=S2665 3=S2102 4=S2097 5=S2098 6=S2099 7=S2771 8=S2103 9=S2181
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 185457 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206105777 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 14-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	073_001	X	hex			14-MAR-2006 10:57	1.0						
002	073_002	CCV	pcb500_100			14-MAR-2006 11:25	1.0	1.0			1	1	
003	073_003	X	pcb500_100			14-MAR-2006 11:52	1.0					1	
004	073_004	X	ccv			14-MAR-2006 12:20	1.0					2	
005	073_005	ICAL	ar2154			14-MAR-2006 12:47	1.0	1.0				2	
006	073_006	BS	QC331128	111220	Water	14-MAR-2006 13:23	1.0	0.025			1		
007	073_007	BSD	QC331129	111220	Water	14-MAR-2006 13:51	1.0	0.025			1		
008	073_008	X	ccv			14-MAR-2006 19:00	1.0					3	
009	073_009	X	ccv			14-MAR-2006 19:27	1.0					3	
010	073_010	X	ccv			14-MAR-2006 19:55	1.0					4	
011	073_011	ICAL	ar1248			14-MAR-2006 20:23	1.0	1.0				5	
012	073_012	X	hex			14-MAR-2006 20:50	1.0						
013	073_013	BLANK	QC331271	111254	Soil	14-MAR-2006 21:18	1.0	0.6707		4	1		
014	073_014	LCS	QC331275	111254	Soil	14-MAR-2006 21:45	1.0	0.6739			1		
015	073_015	SAMPLE	185004-012	111036	Soil	14-MAR-2006 22:13	1.0	0.6667	20		1	sh	441
016	073_016	MSS	184976-021	110898	Soil	14-MAR-2006 22:40	1.0	0.6739			1		
017	073_017	SAMPLE	184976-023	110898	Soil	14-MAR-2006 23:08	1.0	0.6671			1		
018	073_018	MSS	185417-001	111254	Soil	14-MAR-2006 23:35	1.0	0.6596			1		
019	073_019	SAMPLE	185417-002	111254	Soil	15-MAR-2006 00:03	1.0	0.6658			1		
020	073_020	SAMPLE	185490-001	111254	Soil	15-MAR-2006 00:30	1.0	0.6687			1		
021	073_021	X	hex			15-MAR-2006 00:58	1.0						
022	073_022	X	pcb250_50			15-MAR-2006 01:25	1.0					6	
023	073_023	CCV	pcb250_50			15-MAR-2006 01:53	1.0	1.0			1	6	
024	073_024	CCV	ar2154			15-MAR-2006 02:20	1.0	1.0			1	2	
025	073_025	X	ccv			15-MAR-2006 02:48	1.0					2	
026	073_026	X	ccv			15-MAR-2006 03:15	1.0					3	
027	073_027	X	ccv			15-MAR-2006 03:43	1.0					3	
028	073_028	ICAL	ar1242			15-MAR-2006 04:10	1.0	1.0				4	
029	073_029	CCV	ar1248			15-MAR-2006 04:38	1.0	1.0			1	5	
030	073_030	X	hex			15-MAR-2006 05:05	1.0						

Stds used: 1=S2101 2=S2665 3=S2638 4=S2524 5=S2706 6=S2770 7=S2102
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 185457 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206105777 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 14-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
031	073_031	SAMPLE	185461-003	111254	Soil	15-MAR-2006 05:33	1.0	0.6588			1		
032	073_032	SAMPLE	185406-016	111254	Miscel	15-MAR-2006 06:00	1.0	0.6575			1		
033	073_033	SAMPLE	185406-017	111254	Miscel	15-MAR-2006 06:28	1.0	0.6716	1		1	1:PCB126=1570.96	
034	073_034	SAMPLE	185406-018	111254	Miscel	15-MAR-2006 06:55	1.0						
035	073_035	MSS	185406-019	111254	Miscel	15-MAR-2006 07:23	1.0	0.6723			1		
036	073_036	MS	QC331276	111254	Miscel	15-MAR-2006 07:50	1.0	0.6616			1		
037	073_037	MSD	QC331277	111254	Miscel	15-MAR-2006 08:18	1.0	0.675		4	1	2:PCB101=1278.98	
038	073_038	X	hex			15-MAR-2006 08:45	1.0						
039	073_039	BLANK	QC331271	111254	Soil	15-MAR-2006 09:35	1.0	0.6707		4	1		
040	073_040	CCV	pcb750_150			15-MAR-2006 10:03	1.0	1.0			1	7	
041	073_041	X	ccv			15-MAR-2006 10:30	2102						
042	073_042	CCV	2154			15-MAR-2006 10:58	1.0	1.0			1	2	
043	073_043	X	ccv			15-MAR-2006 11:25	1.0					2	
044	073_044	CCV	ar1242			15-MAR-2006 12:04	1.0	1.0			1	4	
045	073_045	X	ccv			15-MAR-2006 12:31	1.0					4	

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Stds used: 1=S2101 2=S2665 3=S2638 4=S2524 5=S2706 6=S2770 7=S2102
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 185457 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206110134 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 17-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	076_001	X	hex			17-MAR-2006 11:34	1.0					
002	076_002	X	pcb500_100			17-MAR-2006 12:02	1.0				1	
003	076_003	X	pcb500_100			17-MAR-2006 12:29	1.0				1	
004	076_004	CCV	pcb500_100			19-MAR-2006 12:07	1.0	1.0		1	1	
005	076_005	X	pcb500_100			19-MAR-2006 12:34	1.0				1	
006	076_006	CCV	ar2154			19-MAR-2006 13:02	1.0	1.0		1	2	
007	076_007	X	ccv			19-MAR-2006 13:29	1.0				2	
008	076_008	X	hex			19-MAR-2006 13:57	1.0					
009	076_009	BLANK	QC331949	111414	Soil	19-MAR-2006 14:24	1.0	0.6633		1		
010	076_010	LCS	QC331950	111414	Soil	19-MAR-2006 14:52	1.0	0.6636		1		
011	076_011	BLANK	QC331819	111385	Water	19-MAR-2006 15:19	1.0	0.025		1		
012	076_012	LCS	QC331820	111385	Water	19-MAR-2006 15:47	1.0	0.025		1		
013	076_013	MSS	185457-016	111385	Water	19-MAR-2006 16:15	1.0	0.02381		1		
014	076_014	MS	QC331821	111385	Water	19-MAR-2006 16:42	1.0	0.02381		1		
015	076_015	MSD	QC331822	111385	Water	19-MAR-2006 17:10	1.0	0.02381		1		
016	076_016	MSS	185575-008	111414	Soil	19-MAR-2006 17:37	1.0	0.6656		1		
017	076_017	MS	QC331951	111414	Soil	19-MAR-2006 18:05	1.0	0.6664		1		
018	076_018	MSD	QC331952	111414	Soil	19-MAR-2006 18:32	1.0	0.6709		1		
019	076_019	X	hex			19-MAR-2006 19:00	1.0					
020	076_020	CCV	pcb250_50			19-MAR-2006 19:27	1.0	1.0		1	3	
021	076_021	X	pcb250_50			19-MAR-2006 19:55	1.0	1.0	2	1	3	
022	076_022	CCV	ar2154			19-MAR-2006 20:22	1.0	1.0		1	2	
023	076_023	X	ccv			19-MAR-2006 20:50	1.0				2	
024	076_024	X	hex			19-MAR-2006 21:17	1.0					
025	076_025	SAMPLE	185540-001	111414	Miscel	19-MAR-2006 21:45	1.0	0.6612		1		
026	076_026	SAMPLE	185540-002	111414	Miscel	19-MAR-2006 22:12	1.0	0.6757		1		
027	076_027	SAMPLE	185540-003	111414	Miscel	19-MAR-2006 22:40	1.0	0.6754		1		
028	076_028	SAMPLE	185540-004	111414	Miscel	19-MAR-2006 23:08	1.0	0.6766		1		
029	076_029	SAMPLE	185540-005	111414	Miscel	19-MAR-2006 23:35	1.0	0.6757		1		
030	076_030	SAMPLE	185540-006	111414	Miscel	20-MAR-2006 00:03	1.0	0.672		1		
031	076_031	SAMPLE	185540-007	111414	Miscel	20-MAR-2006 00:30	1.0	0.6609		1		

Stds used: 1=S2101 2=S2665 3=S2770 4=S2099 5=S2638

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SEQUENCE SUMMARY FOR 185457 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206110134 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 17-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	076_032	SAMPLE	185540-008	111414	Miscel	20-MAR-2006 00:58	1.0	0.6709		1		
033	076_033	SAMPLE	185545-001	111414	Soil	20-MAR-2006 01:25	1.0					
034	076_034	SAMPLE	185545-002	111414	Soil	20-MAR-2006 01:53	1.0	0.6748		1		
035	076_035	X	hex			20-MAR-2006 02:20	1.0					
036	076_036	X	pcb100_20			20-MAR-2006 02:48	1.0				4	
037	076_037	CCV	pcb100_20			20-MAR-2006 03:15	1.0	1.0		1	4	
038	076_038	CCV	ar2154			20-MAR-2006 03:43	1.0	1.0		1	2	
039	076_039	X	ccv			20-MAR-2006 04:10	1.0				2	
040	076_040	X	hex			20-MAR-2006 08:48	1.0					
041	076_041	MSS	185545-003	111414	Soil	20-MAR-2006 09:16	1.0					
042	076_042	SAMPLE	185545-004	111414	Soil	20-MAR-2006 09:43	1.0	0.6649		1		
043	076_043	SAMPLE	185575-001	111414	Soil	20-MAR-2006 10:11	1.0					
044	076_044	SAMPLE	185575-002	111414	Soil	20-MAR-2006 10:38	1.0					
045	076_045	SAMPLE	185575-003	111414	Soil	20-MAR-2006 11:06	1.0					
046	076_046	SAMPLE	185575-004	111414	Soil	20-MAR-2006 11:33	1.0					444
047	076_047	SAMPLE	185575-005	111414	Soil	20-MAR-2006 12:01	1.0					
048	076_048	SAMPLE	185575-006	111414	Soil	20-MAR-2006 12:28	1.0					
049	076_049	SAMPLE	185575-007	111414	Soil	20-MAR-2006 12:56	1.0					
050	076_050	SAMPLE	185511-012	111385	Water	20-MAR-2006 13:23	1.0	0.02475		1		
051	076_051	X	hex			20-MAR-2006 13:51	1.0					
052	076_052	X	pcb500_100			20-MAR-2006 14:18	1.0				1	
053	076_053	CCV	pcb500_100			20-MAR-2006 14:46	1.0	1.0		1	1	
054	076_054	CCV	ar2154			20-MAR-2006 15:14	1.0	1.0		1	2	
055	076_055	X	ccv			20-MAR-2006 15:41	1.0				2	
056	076_056	X	hex			20-MAR-2006 16:09	1.0					
057	076_057	X	ar1268			20-MAR-2006 18:56	1.0	1.0			5	
058	076_058	X	ccv			20-MAR-2006 19:24	1.0				5	
059	076_059	X	hex			20-MAR-2006 19:51	1.0					
060	076_060	MSS	185575-008	111414	Soil	20-MAR-2006 20:19	1.0					
061	076_061	SAMPLE	185545-001	111414	Soil	20-MAR-2006 20:46	10.0	0.677		1		
062	076_062	MSS	185545-003	111414	Soil	20-MAR-2006 21:14	10.0	0.67	12	1		12:PCB126=1600.01

Stds used: 1=S2101 2=S2665 3=S2770 4=S2099 5=S2638

SEQUENCE SUMMARY FOR 185457 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206110134 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 17-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
063	076_063	SAMPLE	185575-001	111414	Soil	20-MAR-2006 21:41	50.0						
064	076_064	SAMPLE	185575-002	111414	Soil	20-MAR-2006 22:09	10.0						
065	076_065	SAMPLE	185575-003	111414	Soil	20-MAR-2006 22:36	1.0						
066	076_066	SAMPLE	185575-004	111414	Soil	20-MAR-2006 23:04	25.0						
067	076_067	?SAMPLE	185575-005	111414		20-MAR-2006 23:31	1.0						
068	076_068	SAMPLE	185575-006	111414	Soil	20-MAR-2006 23:59	5.0						
069	076_069	SAMPLE	185575-007	111414	Soil	21-MAR-2006 00:26	5.0						
070	076_070	X	hex			21-MAR-2006 00:54	1.0						
071	076_071	CCV	pcb250_50			21-MAR-2006 01:21	1.0	1.0			1	3	
072	076_072	X	pcb250_50			21-MAR-2006 01:49	1.0					3	
073	076_073	CCV	ar2154			21-MAR-2006 02:16	1.0	1.0	1		1	2	
074	076_074	X	ccv			21-MAR-2006 02:44	1.0					2	
075	076_075	X	ccv			21-MAR-2006 03:11	1.0					5	
076	076_076	X	ccv			21-MAR-2006 03:39	1.0					5	
077	076_077	X	hex			21-MAR-2006 04:06	1.0						445
078	076_078	SAMPLE	185511-013	111385	Water	21-MAR-2006 04:34	1.0	0.02358			1		
079	076_079	SAMPLE	185558-011	111385	Water	21-MAR-2006 05:02	1.0	0.02404			1		
080	076_080	SAMPLE	185558-013	111385	Water	21-MAR-2006 05:29	1.0	0.02381			1		
081	076_081	SAMPLE	185558-014	111385	Water	21-MAR-2006 05:57	1.0	0.02381			1		
082	076_082	SAMPLE	185558-015	111385	Water	21-MAR-2006 06:24	1.0	0.02381			1		
083	076_083	SAMPLE	185566-001	111385	Water	21-MAR-2006 06:52	1.0	0.02			1		
084	076_084	X	hex			21-MAR-2006 07:19	1.0						
085	076_085	CCV	pcb100_20			21-MAR-2006 07:47	1.0	1.0			1	4	
086	076_086	X	ccv			21-MAR-2006 08:14	1.0					4	
087	076_087	X	ccv			21-MAR-2006 08:42	1.0					2	
088	076_088	X	ccv			21-MAR-2006 09:09	1.0					2	
089	076_089	X	ccv			21-MAR-2006 09:37	1.0					5	
090	076_090	X	ccv			21-MAR-2006 10:04	1.0					5	
091	076_091	X	hex			21-MAR-2006 10:32	1.0						

Stds used: 1=S2101 2=S2665 3=S2770 4=S2099 5=S2638

REPORTING SUMMARY FOR 185457 PCBS Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185457-016	Aroclor-1016	GC06	A	03/19/06 16:15
185457-016	Aroclor-1221	GC06	A	03/19/06 16:15
185457-016	Aroclor-1232	GC06	A	03/19/06 16:15
185457-016	Aroclor-1242	GC06	A	03/19/06 16:15
185457-016	Aroclor-1248	GC06	A	03/19/06 16:15
185457-016	Aroclor-1254	GC06	A	03/19/06 16:15
185457-016	Aroclor-1260	GC06	A	03/19/06 16:15
185457-016	TCMX	GC06	A	03/19/06 16:15
185457-016	Decachlorobiphenyl	GC06	A	03/19/06 16:15
QC331819	Aroclor-1016	GC06	A	03/19/06 15:19
QC331819	Aroclor-1221	GC06	A	03/19/06 15:19
QC331819	Aroclor-1232	GC06	A	03/19/06 15:19
QC331819	Aroclor-1242	GC06	A	03/19/06 15:19
QC331819	Aroclor-1248	GC06	A	03/19/06 15:19
QC331819	Aroclor-1254	GC06	A	03/19/06 15:19
QC331819	Aroclor-1260	GC06	A	03/19/06 15:19
QC331819	TCMX	GC06	A	03/19/06 15:19
QC331819	Decachlorobiphenyl	GC06	A	03/19/06 15:19
QC331820	Aroclor-1221	GC06	A	03/19/06 15:47
QC331820	TCMX	GC06	A	03/19/06 15:47
QC331820	Decachlorobiphenyl	GC06	A	03/19/06 15:47
QC331821	Aroclor-1221	GC06	A	03/19/06 16:42
QC331821	TCMX	GC06	A	03/19/06 16:42
QC331821	Decachlorobiphenyl	GC06	A	03/19/06 16:42
QC331822	Aroclor-1221	GC06	A	03/19/06 17:10
QC331822	TCMX	GC06	A	03/19/06 17:10
QC331822	Decachlorobiphenyl	GC06	A	03/19/06 17:10

Curtis & Tompkins Laboratories **Sample Preparation Summary** **17-MAR-2006 13:23**

Batch Number : 111385
Date Extracted: 16-MAR-2006
Extracted by : Kristine Harrison
Prep Method : 3520C

Analysis : PCB
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2719A
Spike #2 ID : S2797A
Spike #3 ID :
SOP Version : PCB_w_rv7

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185457-016		Treadwell & Rollo	Water	1050	mL	25	0.023810	1	6	.05	0		PCB	3665A	mss
185511-012		Treadwell & Rollo	Water	1010	mL	25	0.024752	1	5	.05	0		PCB	3665A	
185511-013		Treadwell & Rollo	Water	1060	mL	25	0.023585	1	5	.05	0		PCB	3665A	
185558-011		Treadwell & Rollo	Water	1040	mL	25	0.024038	1	6	.05	0		PCB	3665A	
185558-013		Treadwell & Rollo	Water	1050	mL	25	0.023810	1	6	.05	0		PCB	3665A	
185558-014		Treadwell & Rollo	Water	1050	mL	25	0.023810	1	6	.05	0		PCB	3665A	
185558-015		Treadwell & Rollo	Water	1050	mL	25	0.023810	1	6	.05	0		PCB	3665A	
185566-001		Tetra Tech EC, Inc.	Water	500	mL	10	0.020000	1	6	.025	0		PCB	3665A	limited volume
QC331819	BLANK		Water	1000	mL	25	0.025000	1		.05	0		PCB	3665A	
QC331820	LCS		Water	1000	mL	25	0.025000	1		.05	.05		PCB	3665A	
QC331821	MS	of 185457-016	Water	1050	mL	25	0.023810	1	6	.05	.05		PCB	3665A	
QC331822	MSD	of 185457-016	Water	1050	mL	25	0.023810	1	6	.05	.05		PCB	3665A	

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Prep Chemist: Kristine Harrison Reviewed By: [signature] Date: 3/17/06

Relinquished By: Dan McC Received By: Jennifer Gangwer Date: 3/20/06

Curtis & Tompkins, Ltd

PCB WATER PREP LOG

LIMS Batch No: 111385
LIMS Analysis: PCB
Extracted by: KMH
Date Extracted: 3/16/06

Extraction Method:
☐ EPA 3510c Sep. Funnel
☑ EPA 3520c Continuous L/L
☐ Other

BK 2231
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Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Comments
185457-016AG	1050	6	2.5	MSS
185511-012 R	1010	5		
13 S	1060	5		
185558-011 K	1040	6		
13 I	1050			
14 J	1050			
15 L	1050			
185566-001 QN	~~1000~~ 2500 KMH 3/16/06		DLM 3/17/06	★
MB QC331819 KMH 3/16/06	1000	NA	DLM 3/17/06	
LCS 20				
MS 21	1050	6		KMH 3/16/06 185457-016 AE
MSD 22		6		AF

RMD 3/17/06

0.05 (0.025★) mL of surrogate solution was added to all samples
0.05 mL of spike solution AR 1221 was added to all spikes
☑ Samples were continuously extracted with about 450 mL CH_2Cl_2
Extraction Start Time: 1825
Extraction End Time: 0725
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4
Concentrated to volumes noted above after 2x exchange w/ Hexane lot#
EPA 3665A Clean-up: Vortexed w/ 10mL H_2SO_4 lot #
Centrifuged for 1min; 10mL transferred to labelled vial

Lot# / LIMS # / Time	Date/ Initials
[illegible]	KMH 3/16/06
SA7797A	
EM4014	
1825	
0725	DLM 3/17/06
NA	
EM5118532	
CP890	
JTB 824063	
✓	

Extraction Chemist Date: 3/16/06

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Contined from Page ___
Continued on Page ___

Reviewed by Date: 3/17/06

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8082 Water
As of 04/06/06

Analyte	Units	GC06 A	GC06 B	GC22 A	GC22 B	GC25 A	GC25 B
Aroclor-1016	ug/L	0.054	0.054	0.058	0.029	0.11	0.12
Aroclor-1221	ug/L	0.31	0.29	0.41	0.33	0.37	0.63
Aroclor-1232	ug/L	0.11	0.088	0.19	0.34	0.16	0.087
Aroclor-1242	ug/L	0.15	0.16	0.24	0.22	0.14	0.15
Aroclor-1248	ug/L	0.30	0.34	0.097	0.061	0.038	0.051
Aroclor-1254	ug/L	0.086	0.11	0.11	0.14	0.12	0.13
Aroclor-1260	ug/L	0.079	0.14	0.059	0.037	0.097	0.12

POLYAROMATIC HYDROCARBONS

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	LF5GW103	Batch#:	111301
Lab ID:	185457-001	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/14/06
Diln Fac:	1.000	Analyzed:	03/17/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.96	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.96	
Fluorene	ND	0.96	
Phenanthrene	ND	0.48	
Anthracene	ND	0.48	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	88	65-135
1-Methylnaphthalene (F)	81	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	LF5GW102	Batch#:	111301
Lab ID:	185457-002	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/14/06
Diln Fac:	1.000	Analyzed:	03/17/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.97	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.97	
Fluorene	ND	0.97	
Phenanthrene	ND	0.49	
Anthracene	ND	0.49	0.008
Fluoranthene	ND	0.39	0.02
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	88	65-135
1-Methylnaphthalene (F)	81	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	1260GW102	Batch#:	111301
Lab ID:	185457-003	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/14/06
Diln Fac:	1.000	Analyzed:	03/17/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.95	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.95	
Fluorene	ND	0.95	
Phenanthrene	ND	0.48	
Anthracene	ND	0.48	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	92	65-135
1-Methylnaphthalene (F)	84	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	DUP0309063A	Batch#:	111301
Lab ID:	185457-004	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/14/06
Diln Fac:	1.000	Analyzed:	03/17/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.97	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.97	
Fluorene	ND	0.97	
Phenanthrene	ND	0.49	
Anthracene	ND	0.49	0.008
Fluoranthene	ND	0.39	0.02
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	89	65-135
1-Methylnaphthalene (F)	82	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	1349MW104	Batch#:	111301
Lab ID:	185457-005	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/14/06
Diln Fac:	1.000	Analyzed:	03/18/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.96	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.96	
Fluorene	ND	0.96	
Phenanthrene	ND	0.48	
Anthracene	ND	0.48	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	88	65-135
1-Methylnaphthalene (F)	80	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	1349MW103	Batch#:	111301
Lab ID:	185457-006	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/14/06
Diln Fac:	1.000	Analyzed:	03/18/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.97	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.97	
Fluorene	ND	0.97	
Phenanthrene	ND	0.49	
Anthracene	ND	0.49	0.008
Fluoranthene	ND	0.39	0.02
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	89	65-135
1-Methylnaphthalene (F)	81	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	LF5GW101	Batch#:	111301
Lab ID:	185457-007	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/14/06
Diln Fac:	1.000	Analyzed:	03/18/06

Analyte	Result	RL	MDL
Naphthalene	ND	1.0	
Acenaphthylene	ND	2.0	
Acenaphthene	ND	1.0	
Fluorene	ND	1.0	
Phenanthrene	ND	0.50	
Anthracene	ND	0.50	0.008
Fluoranthene	ND	0.40	0.02
Pyrene	ND	0.20	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	93	65-135
1-Methylnaphthalene (F)	85	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	LF5GW100	Batch#:	111301
Lab ID:	185457-008	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/14/06
Diln Fac:	1.000	Analyzed:	03/18/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.97	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.97	
Fluorene	ND	0.97	
Phenanthrene	ND	0.49	
Anthracene	ND	0.49	0.008
Fluoranthene	ND	0.39	0.02
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	93	65-135
1-Methylnaphthalene (F)	86	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	1349MW02	Batch#:	111301
Lab ID:	185457-016	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/14/06
Diln Fac:	1.000	Analyzed:	03/18/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.98	
Acenaphthylene	ND	2.0	
Acenaphthene	ND	0.98	
Fluorene	ND	0.98	
Phenanthrene	ND	0.49	
Anthracene	ND	0.49	0.008
Fluoranthene	ND	0.39	0.02
Pyrene	ND	0.20	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	93	65-135
1-Methylnaphthalene (F)	87	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331482	Batch#:	111301
Matrix:	Water	Prepared:	03/14/06
Units:	ug/L	Analyzed:	03/17/06

Analyte	Result	RL	MDL
Naphthalene	ND	1.0	
Acenaphthylene	ND	2.0	
Acenaphthene	ND	1.0	
Fluorene	ND	1.0	
Phenanthrene	ND	0.50	
Anthracene	ND	0.50	0.008
Fluoranthene	ND	0.40	0.02
Pyrene	ND	0.20	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	85	65-135
1-Methylnaphthalene (F)	79	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331483	Batch#:	111301
Matrix:	Water	Prepared:	03/14/06
Units:	ug/L	Analyzed:	03/17/06

Analyte	Spiked	Result	%REC	Limits
Naphthalene	10.00	8.512	85	50-135
Fluorene	2.000	1.723	86	65-135
Pyrene	1.000	0.8030	80	65-135
Benzo(a)pyrene	1.000	0.8350	84	65-135

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	83	65-135
1-Methylnaphthalene (F)	77	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	1260GW102	Batch#:	111301
MSS Lab ID:	185457-003	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/14/06
Diln Fac:	1.000	Analyzed:	03/17/06

Type: MS Lab ID: QC331484

Analyte	MSS Result	Spiked	Result	%REC	Limits
Naphthalene	<0.06891	9.524	8.093	85	50-135
Fluorene	<0.01469	1.905	1.741	91	65-135
Pyrene	<0.007127	0.9524	0.7598	80	65-135
Benzo(a)pyrene	<0.007470	0.9524	0.6974	73	65-135

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	87	65-135
1-Methylnaphthalene (F)	80	65-135

Type: MSD Lab ID: QC331485

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Naphthalene	9.524	8.503	89	50-135	5	35
Fluorene	1.905	1.785	94	65-135	2	35
Pyrene	0.9524	0.8229	86	65-135	8	35
Benzo(a)pyrene	0.9524	0.8017	84	65-135	14	35

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	89	65-135
1-Methylnaphthalene (F)	82	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	1349MW02	Batch#:	111301
MSS Lab ID:	185457-016	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/14/06
Diln Fac:	1.000	Analyzed:	03/18/06

Type: MS Lab ID: QC331486

Analyte	MSS Result	Spiked	Result	%REC	Limits
Naphthalene	<0.07094	9.804	8.821	90	50-135
Fluorene	<0.01512	1.961	2.616	133	65-135
Pyrene	<0.007337	0.9804	0.8580	88	65-135
Benzo(a)pyrene	<0.007689	0.9804	0.6827	70	65-135

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	92	65-135
1-Methylnaphthalene (F)	87	65-135

Type: MSD Lab ID: QC331487

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Naphthalene	9.804	9.021	92	50-135	2	35
Fluorene	1.961	1.876	96	65-135	33	35
Pyrene	0.9804	0.8741	89	65-135	2	35
Benzo(a)pyrene	0.9804	0.7434	76	65-135	9	35

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	92	65-135
1-Methylnaphthalene (F)	87	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185457 HPLC Water: EPA 8310

Inst : HPLC04
Calnum : 295454249001
Units : ug/L

Date : 11-NOV-2005 13:27
X Axis : R

Reviewer: MCH
Inj Vol : 10 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	31500006	295454249006		11-NOV-2005 13:27	S1620
L2	31500007	295454249007		11-NOV-2005 13:58	S1619
L3	31500008	295454249008		11-NOV-2005 14:30	S1618
L4	31500009	295454249009		11-NOV-2005 15:02	S1617
L5	31500010	295454249010		11-NOV-2005 15:33	S1616
L6	31500011	295454249011		11-NOV-2005 16:05	S1615
L7	31500012	295454249012		11-NOV-2005 16:36	S1614

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Naphthalene	1	0.0130	0.0130	0.0130	0.0132	0.0131	0.0129	0.0130	LINR	-24.714	77.1181		0.0130	1.000	0.99	20	
Acenaphthylene	1	0.0092	0.0091	0.0093	0.0095	0.0094	0.0092	0.0091	LINR	-214.44	109.425		0.0093	1.000	0.99	20	
Acenaphthene	1	0.0049	0.0049	0.0051	0.0052	0.0051	0.0050	0.0050	LINR	-85.609	200.350		0.0050	1.000	0.99	20	
Fluorene	1	0.0623	0.0618	0.0631	0.0639	0.0633	0.0627	0.0629	LINR	-2.8635	15.9062		0.0629	1.000	0.99	20	
Phenanthrene	1	0.1801	0.1766	0.1803	0.1826	0.1801	0.1784	0.1795	LINR	-1.3045	5.57871		0.1797	1.000	0.99	20	
Anthracene	1	0.4031	0.4032	0.4080	0.4134	0.4084	0.4043	0.4050	LINR	-3.4533	2.47159		0.4065	1.000	0.99	20	
Fluoranthene	1	0.0405	0.0401	0.0407	0.0416	0.0411	0.0407	0.0412	LINR	4.76117	24.3260		0.0408	1.000	0.99	20	
Pyrene	1	0.0324	0.0319	0.0332	0.0334	0.0330	0.0331	0.0336	LINR	8.56100	29.7835		0.0329	1.000	0.99	20	
Benzo(a)anthracene	1	0.0846	0.0904	0.0906	0.0917	0.0910	0.0903	0.0918	LINR	6.16312	10.9120		0.0901	1.000	0.99	20	
Chrysene	1	0.1299	0.1298	0.1319	0.1351	0.1332	0.1321	0.1335	LINR	2.64524	7.49865		0.1322	1.000	0.99	20	
Benzo(b)fluoranthene	1	0.0989	0.1025	0.1054	0.1076	0.1069	0.1059	0.1068	LINR	5.37165	9.37329		0.1049	1.000	0.99	20	
Benzo(k)fluoranthene	1	0.0806	0.0758	0.0785	0.0804	0.0803	0.0803	0.0814	LINR	9.05452	12.2962		0.0796	1.000	0.99	20	
Benzo(a)pyrene	1	0.0781	0.0812	0.0842	0.0867	0.0863	0.0861	0.0870	LINR	8.12100	11.4914		0.0842	1.000	0.99	20	
Dibenz(a,h)anthracene	1	0.0174	0.0209	0.0203	0.0209	0.0211	0.0213	0.0216	LINR	28.9418	46.3202		0.0205	1.000	0.99	20	
Benzo(g,h,i)perylene	1	0.0332	0.0346	0.0347	0.0354	0.0353	0.0353	0.0357	LINR	17.3259	27.9927		0.0349	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	1	0.0843	0.0838	0.0916	0.0948	0.0947	0.0946	0.0953	LINR	8.70680	10.4860		0.0913	1.000	0.99	20	
1-Methylnaphthalene (UV)	1	0.0084	0.0085	0.0086	0.0086	0.0085	0.0084	0.0084	LINR	-262.66	119.128		0.0085	1.000	0.99	20	
Acenaphthylene	2	0.0273	0.0273	0.0279	0.0282	0.0280	0.0277	0.0279	LINR	7.54152	35.8750		0.0277	1.000	0.99	20	
1-Methylnaphthalene (UV)	2	0.0030	0.0030	0.0031	0.0031	0.0031	0.0030	0.0030	LINR	-125.29	329.273		0.0031	1.000	0.99	20	
Naphthalene	3	0.0118	0.0118	0.0118	0.0119	0.0119	0.0117	0.0116	LINR	-94.622	86.2298		0.0118	1.000	0.99	20	
Acenaphthene	3	0.0242	0.0241	0.0242	0.0246	0.0244	0.0239		LINR	-65.047	41.8154		0.0242	1.000	0.99	20	
Fluorene	3	0.1329	0.1328	0.1337	0.1349	0.1333	0.1303		LINR	-17.920	7.68242		0.1330	1.000	0.99	20	
Phenanthrene	3	0.1403	0.1414	0.1416	0.1432	0.1419	0.1386	0.1387	LINR	-8.7849	7.22392		0.1408	1.000	0.99	20	
Anthracene	3	0.4105	0.4089	0.4142	0.4203	0.4141	0.4106	0.4119	LINR	-2.5156	2.43034		0.4129	1.000	0.99	20	
Fluoranthene	3	0.0408	0.0402	0.0409	0.0415	0.0411	0.0406	0.0409	LINR	-2.6821	24.5038		0.0409	1.000	0.99	20	
Pyrene	3	0.1357	0.1319	0.1342	0.1369	0.1342	0.1312	0.1332	LINR	-2.1762	7.53143		0.1339	1.000	0.99	20	

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295454249001

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Benzo(a)anthracene	3	0.1507	0.1492	0.1525	0.1551	0.1526	0.1506	0.1519	LINR	-1.3548	6.59583		0.1518	1.000	0.99	20	
Chrysene	3	0.1830	0.1826	0.1864	0.1898	0.1872	0.1843	0.1845	LINR	-5.3078	5.42554		0.1854	1.000	0.99	20	
Benzo(b)fluoranthene	3	0.0661	0.0655	0.0671	0.0681	0.0672	0.0664	0.0670	LINR	-0.3738	14.9546		0.0668	1.000	0.99	20	
Benzo(k)fluoranthene	3	0.3904	0.3881	0.3960	0.4014	0.3974	0.3923	0.3904	LINR	-7.1975	2.56238		0.3937	1.000	0.99	20	
Benzo(a)pyrene	3	0.2124	0.2112	0.2162	0.2193	0.2168	0.2137	0.2143	LINR	-3.8765	4.67175		0.2148	1.000	0.99	20	
Dibenz(a,h)anthracene	3	0.0298	0.0299	0.0311	0.0319	0.0317	0.0316	0.0320	LINR	14.7159	31.2756		0.0311	1.000	0.99	20	
Benzo(g,h,i)perylene	3	0.0617	0.0613	0.0626	0.0641	0.0636	0.0633	0.0639	LINR	8.49542	15.6646		0.0629	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	3	0.0928	0.0930	0.0946	0.0968	0.0967	0.0963	0.0973	LINR	6.16011	10.2852		0.0953	1.000	0.99	20	
1-Methylnaphthalene (F)	3	0.0132	0.0131	0.0132	0.0133	0.0132	0.0128		LINR	-457.43	78.4104		0.0131	1.000	0.99	20	

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LINR=Linear regression

Instrument amount = a0 + response * a1 + response^2 * a2

295454249001

Method G:\HPLC4\METHODS\8310-315.M

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Calibration Table

==========

NEW ICAL. JM 14 NOV 2005

HPLC04 METHOD 8310

Calib. Data Modified : 11/14/2005 4:07:02 PM

mms 11/15/05

Calculate : External Standard
Based on : Peak Area

Rel. Reference Window : 1.000 %
Abs. Reference Window : 0.200 min
Rel. Non-ref. Window : 1.000 %
Abs. Non-ref. Window : 0.250 min
Do not use Multiplier & Dilution Factor with ISTDs
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Signal 1: DAD1 A, Sig=254,4 Ref=480,80
Signal 2: DAD1 B, Sig=305,4 Ref=480,80
Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
4.798	1	1	500.00000	6.51225	76.77836			Naphthalene
		2	1000.00000	13.02439	76.77905			
		3	2500.00000	32.45070	77.03995			
		4	5000.00000	65.81794	75.96713			
		5	1.00000e4	130.82538	76.43777			
		6	2.50000e4	323.61371	77.25260			
		7	5.00000e4	648.90906	77.05240			
4.839	3	1	500.00000	5.89779	84.77755			Naphthalene
		2	1000.00000	11.75017	85.10517			
		3	2500.00000	29.52386	84.67727			
		4	5000.00000	59.72798	83.71286			
		5	1.00000e4	118.70710	84.24096			
		6	2.50000e4	292.13416	85.57712			
		7	5.00000e4	580.05115	86.19930			
6.052	1	1	1000.00000	9.19383	108.76859			Acenaphthylene
		2	2000.00000	18.17297	110.05354			
		3	5000.00000	46.41474	107.72440			
		4	1.00000e4	94.72365	105.57026			
		5	2.00000e4	187.69478	106.55597			
		6	5.00000e4	461.84637	108.26111			
		7	1.00000e5	913.74396	109.43985			
6.053	2	1	1000.00000	27.33126	36.58814			Acenaphthylene
		2	2000.00000	54.50918	36.69107			
		3	5000.00000	139.26938	35.90165			

Method G:\HPLC4\METHODS\8310-315.M

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		4	1.00000e4	281.69171	35.49980			
		5	2.00000e4	559.80969	35.72643			
		6	5.00000e4	1386.26819	36.06806			
		7	1.00000e5	2790.07104	35.84138			
6.831	1	1	2000.00000	16.88634	118.43892			1-Methylnaphthalene (UV)
		2	4000.00000	33.87627	118.07677			
		3	1.00000e4	85.59682	116.82676			
		4	2.00000e4	172.90190	115.67253			
		5	4.00000e4	341.59979	117.09609			
		6	1.00000e5	839.73962	119.08453			
		7	2.00000e5	1681.10107	118.96965			
6.832	2	1	2000.00000	6.07634	329.14529			1-Methylnaphthalene (UV)
		2	4000.00000	12.02570	332.62101			
		3	1.00000e4	30.92526	323.36029			
		4	2.00000e4	62.05173	322.31170			
		5	4.00000e4	122.53880	326.42721			
		6	1.00000e5	302.71973	330.33856			
		7	2.00000e5	608.23541	328.82005			
6.872	3	1	2000.00000	26.32489	75.97373			1-Methylnaphthalene (F)
		2	4000.00000	52.31355	76.46202			
		3	1.00000e4	131.50134	76.04485			
		4	2.00000e4	266.55655	75.03098			
		5	4.00000e4	526.67639	75.94796			
		6	1.00000e5	1276.22900	78.35584			
7.280	1	1	500.00000	5.56723	89.81128			2-Methylnaphthalene
		2	1000.00000	11.21599	89.15845			
		3	2500.00000	28.88600	86.54713			
		4	5000.00000	58.62328	85.29035			
		5	1.00000e4	116.21339	86.04861			
		6	2.50000e4	286.22339	87.34436			
7.335	3	1	500.00000	7.99274	62.55677			2-Methylnaphthalene
		2	1000.00000	15.91236	62.84423			
		3	2500.00000	40.03383	62.44718			
		4	5000.00000	81.15388	61.61135			
		5	1.00000e4	161.03452	62.09849			
		6	2.50000e4	395.10352	63.27456			
7.672	1	1	500.00000	2.42577	206.12028			Acenaphthene
		2	1000.00000	4.86201	205.67637			
		3	2500.00000	12.71169	196.66929			
		4	5000.00000	25.83322	193.54924			
		5	1.00000e4	51.07816	195.77838			
		6	2.50000e4	125.66128	198.94752			
		7	5.00000e4	249.59686	200.32303			
7.712	3	1	500.00000	12.09695	41.33272			Acenaphthene
		2	1000.00000	24.11610	41.46607			
		3	2500.00000	60.52220	41.30716			
		4	5000.00000	122.93717	40.67118			
		5	1.00000e4	243.99982	40.98364			
		6	2.50000e4	597.90503	41.81266			
8.199	1	1	100.00000	6.23287	16.04397			Fluorene
		2	200.00000	12.36933	16.16903			
		3	500.00000	31.54358	15.85108			
		4	1000.00000	63.90393	15.64849			
		5	2000.00000	126.50168	15.81007			
		6	5000.00000	313.40030	15.95404			
		7	1.00000e4	629.23938	15.89220			
8.239	3	1	100.00000	13.29075	7.52403			Fluorene
		2	200.00000	26.56478	7.52876			
		3	500.00000	66.85545	7.47882			
		4	1000.00000	134.87556	7.41424			
		5	2000.00000	266.58530	7.50229			
		6	5000.00000	651.29639	7.67700			
9.318	1	1	50.00000	9.00343	5.55344			Phenanthrene

Method G:\HPLC4\METHODS\8310-315.M

RetTime [min]	Lvl Sig		Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	100.00000	17.66359	5.66136			
		3	250.00000	45.08168	5.54549			
		4	500.00000	91.29965	5.47647			
		5	1000.00000	180.14212	5.55117			
		6	2500.00000	446.01529	5.60519			
		7	5000.00000	897.40991	5.57159			
9.358	3	1	50.00000	7.01743	7.12511			Phenanthrene
		2	100.00000	14.14166	7.07130			
		3	250.00000	35.38944	7.06425			
		4	500.00000	71.59289	6.98393			
		5	1000.00000	141.86461	7.04897			
		6	2500.00000	346.48584	7.21530			
		7	5000.00000	693.25409	7.21236			
10.346	1	1	50.00000	20.15521	2.48075			Anthracene
		2	100.00000	40.32065	2.48012			
		3	250.00000	101.99684	2.45106			
		4	500.00000	206.70654	2.41889			
		5	1000.00000	408.35837	2.44883			
		6	2500.00000	1010.66217	2.47363			
		7	5000.00000	2024.80078	2.46938			
10.386	3	1	50.00000	20.52480	2.43608			Anthracene
		2	100.00000	40.89180	2.44548			
		3	250.00000	103.54391	2.41443			
		4	500.00000	210.14381	2.37932			
		5	1000.00000	414.05106	2.41516			
		6	2500.00000	1026.49353	2.43548			
		7	5000.00000	2059.37134	2.42793			
11.504	1	1	100.00000	4.05160	24.68162			Fluoranthene
		2	200.00000	8.01856	24.94213			
		3	500.00000	20.35011	24.56989			
		4	1000.00000	41.57235	24.05445			
		5	2000.00000	82.13621	24.34980			
		6	5000.00000	203.73349	24.54187			
		7	1.00000e4	411.60339	24.29523			
11.543	3	1	100.00000	4.08160	24.50019			Fluoranthene
		2	200.00000	8.04222	24.86875			
		3	500.00000	20.46036	24.43750			
		4	1000.00000	41.54289	24.07151			
		5	2000.00000	82.12543	24.35299			
		6	5000.00000	203.17122	24.60978			
		7	1.00000e4	408.57028	24.47559			
12.274	1	1	50.00000	1.62059	30.85291			Pyrene
		2	100.00000	3.19098	31.33834			
		3	250.00000	8.29422	30.14147			
		4	500.00000	16.68730	29.96290			
		5	1000.00000	32.97289	30.32795			
		6	2500.00000	82.77225	30.20336			
		7	5000.00000	168.06082	29.75113			
12.313	3	1	50.00000	6.78313	7.37123			Pyrene
		2	100.00000	13.19262	7.58000			
		3	250.00000	33.54156	7.45344			
		4	500.00000	68.45862	7.30368			
		5	1000.00000	134.23868	7.44942			
		6	2500.00000	328.05682	7.62063			
		7	5000.00000	665.85370	7.50916			
15.125	1	1	50.00000	4.23180	11.81530			Benzo(a)anthracene
		2	100.00000	9.04188	11.05964			
		3	250.00000	22.65013	11.03746			
		4	500.00000	45.84408	10.90653			
		5	1000.00000	91.03773	10.98446			
		6	2500.00000	225.67519	11.07787			
		7	5000.00000	459.00107	10.89322			
15.164	3	1	50.00000	7.53349	6.63703			Benzo(a)anthracene

Method G:\HPLC4\METHODS\8310-315.M

RetTime [min]	Lvl Sig		Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	100.00000	14.92142	6.70177			
		3	250.00000	38.11910	6.55839			
		4	500.00000	77.56648	6.44608			
		5	1000.00000	152.59743	6.55319			
		6	2500.00000	376.53439	6.63950			
		7	5000.00000	759.30841	6.58494			
15.624	1	1	50.00000	6.49550	7.69764			Chrysene
		2	100.00000	12.97757	7.70560			
		3	250.00000	32.97633	7.58119			
		4	500.00000	67.56745	7.40001			
		5	1000.00000	133.20935	7.50698			
		6	2500.00000	330.15082	7.57230			
		7	5000.00000	667.71228	7.48826			
15.664	3	1	50.00000	9.15220	5.46317			Chrysene
		2	100.00000	18.25678	5.47742			
		3	250.00000	46.59403	5.36549			
		4	500.00000	94.90897	5.26821			
		5	1000.00000	187.15659	5.34312			
		6	2500.00000	460.78613	5.42551			
		7	5000.00000	922.53937	5.41982			
17.842	1	1	100.00000	9.89154	10.10965			Benzo(b)fluoranthene
		2	200.00000	20.49215	9.75983			
		3	500.00000	52.71000	9.48587			
		4	1000.00000	107.62183	9.29180			
		5	2000.00000	213.82385	9.35349			
		6	5000.00000	529.55377	9.44191			
		7	1.00000e4	1067.59534	9.36684			
17.883	3	1	100.00000	6.61389	15.11970			Benzo(b)fluoranthene
		2	200.00000	13.10739	15.25857			
		3	500.00000	33.56808	14.89510			
		4	1000.00000	68.05548	14.69389			
		5	2000.00000	134.33257	14.88842			
		6	5000.00000	331.92670	15.06357			
		7	1.00000e4	669.70776	14.93189			
18.796	1	1	50.00000	4.03241	12.39953			Benzo(k)fluoranthene
		2	100.00000	7.57503	13.20127			
		3	250.00000	19.62153	12.74110			
		4	500.00000	40.20050	12.43765			
		5	1000.00000	80.29658	12.45383			
		6	2500.00000	200.76387	12.45244			
		7	5000.00000	406.82126	12.29041			
18.837	3	1	50.00000	19.52037	2.56143			Benzo(k)fluoranthene
		2	100.00000	38.80871	2.57674			
		3	250.00000	99.01035	2.52499			
		4	500.00000	200.72287	2.49100			
		5	1000.00000	397.35812	2.51662			
		6	2500.00000	980.66785	2.54928			
		7	5000.00000	1952.04028	2.56142			
19.734	1	1	50.00000	3.90437	12.80616			Benzo(a)pyrene
		2	100.00000	8.12252	12.31145			
		3	250.00000	21.05889	11.87147			
		4	500.00000	43.33799	11.53722			
		5	1000.00000	86.29072	11.58873			
		6	2500.00000	215.14328	11.62016			
		7	5000.00000	435.20081	11.48895			
19.774	3	1	50.00000	10.62241	4.70703			Benzo(a)pyrene
		2	100.00000	21.12371	4.73402			
		3	250.00000	54.04917	4.62542			
		4	500.00000	109.65622	4.55970			
		5	1000.00000	216.76112	4.61337			
		6	2500.00000	534.25336	4.67943			
		7	5000.00000	1071.43713	4.66663			
21.335	1	1	100.00000	1.74457	57.32080			Dibenz(a,h)anthracene

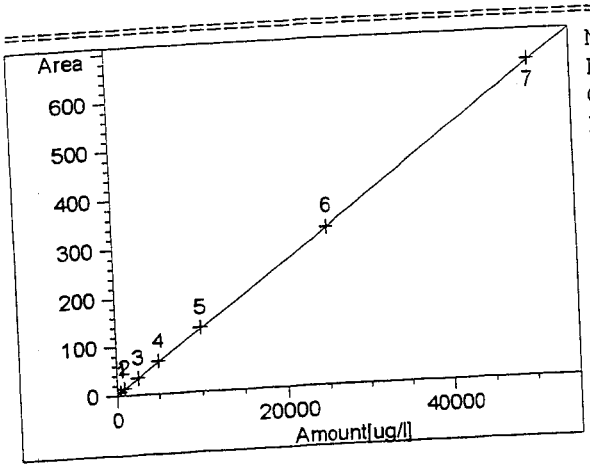
Method G:\HPLC4\METHODS\8310-315.M

RetTime [min]	Lvl Sig		Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	200.00000	4.18672	47.77004			
		3	500.00000	10.15091	49.25669			
		4	1000.00000	20.86957	47.91665			
		5	2000.00000	42.28377	47.29947			
		6	5000.00000	106.57118	46.91700			
		7	1.00000e4	215.69028	46.36278			
21.376	3	1	100.00000	2.98045	33.55199			Dibenz(a,h)anthracene
		2	200.00000	5.97678	33.46283			
		3	500.00000	15.56407	32.12527			
		4	1000.00000	31.90387	31.34416			
		5	2000.00000	63.43048	31.53058			
		6	5000.00000	158.05646	31.63427			
		7	1.00000e4	319.90201	31.25957			
22.099	1	1	100.00000	3.32142	30.10762			Benzo(g,h,i)perylene
		2	200.00000	6.91262	28.93260			
		3	500.00000	17.35672	28.80728			
		4	1000.00000	35.38666	28.25924			
		5	2000.00000	70.51058	28.36454			
		6	5000.00000	176.29678	28.36127			
		7	1.00000e4	357.48672	27.97307			
22.140	3	1	100.00000	6.17302	16.19953			Benzo(g,h,i)perylene
		2	200.00000	12.25580	16.31880			
		3	500.00000	31.30061	15.97413			
		4	1000.00000	64.07645	15.60636			
		5	2000.00000	127.25459	15.71653			
		6	5000.00000	316.47900	15.79884			
		7	1.00000e4	638.82190	15.65382			
22.620	1	1	50.00000	4.21460	11.86352			Indeno(1,2,3-cd)pyrene
		2	100.00000	8.38093	11.93185			
		3	250.00000	22.88771	10.92289			
		4	500.00000	47.41936	10.54422			
		5	1000.00000	94.73141	10.55616			
		6	2500.00000	236.57013	10.56769			
		7	5000.00000	476.41440	10.49506			
22.661	3	1	50.00000	4.64120	10.77307			Indeno(1,2,3-cd)pyrene
		2	100.00000	9.29544	10.75796			
		3	250.00000	23.65410	10.56899			
		4	500.00000	48.39191	10.33231			
		5	1000.00000	96.65224	10.34637			
		6	2500.00000	240.76752	10.38346			
		7	5000.00000	486.34088	10.28085			

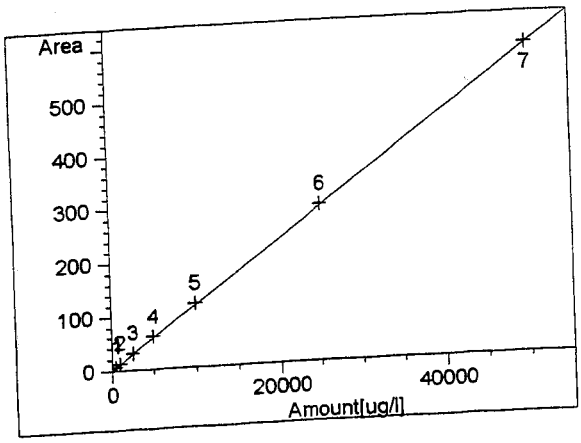
Peak Sum Table

No Entries in table

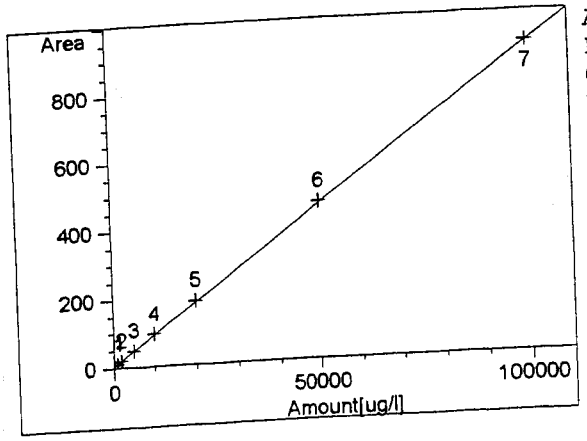
Calibration Curves



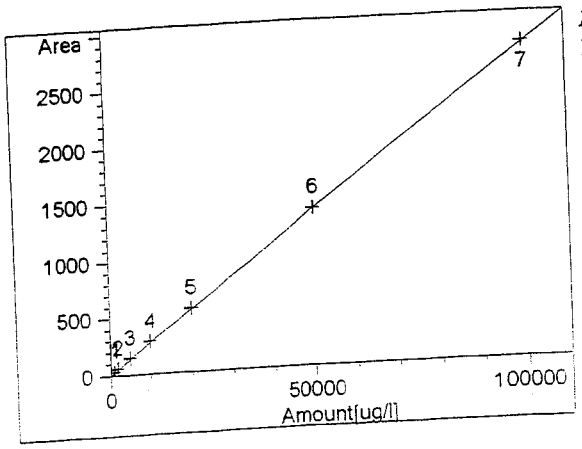
Naphthalene at exp. RT: 4.798
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.66440
Formula: y = mx + b
m: 1.29671e-2
b: 3.20474e-1
x: Amount[ug/l]
y: Area



Naphthalene at exp. RT: 4.839
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.21267
Formula: y = mx + b
m: 1.15969e-2
b: 1.09732
x: Amount[ug/l]
y: Area

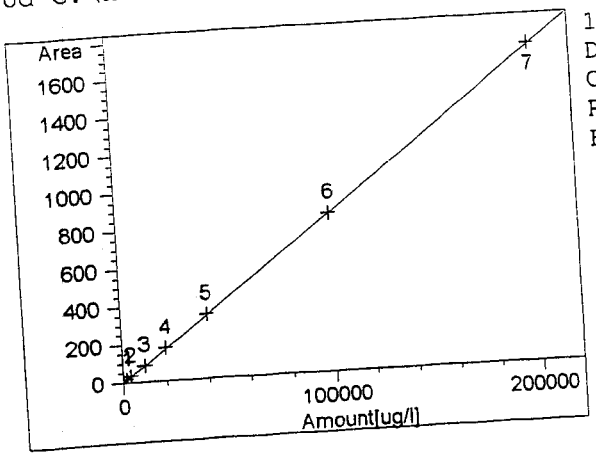


Acenaphthylene at exp. RT: 6.052
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 2.57482
Formula: y = mx + b
m: 9.13868e-3
b: 1.95971
x: Amount[ug/l]
y: Area

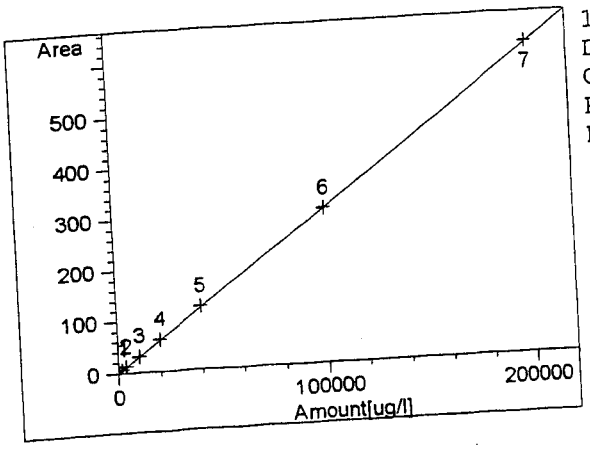


Acenaphthylene at exp. RT: 6.053
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 3.95166
Formula: y = mx + b
m: 2.78746e-2
b: -2.10217e-1
x: Amount[ug/l]
y: Area

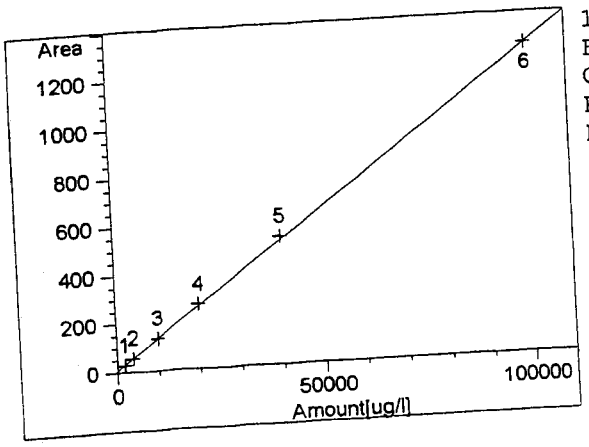
ethod G:\HPLC4\METHODS\8310-315.M



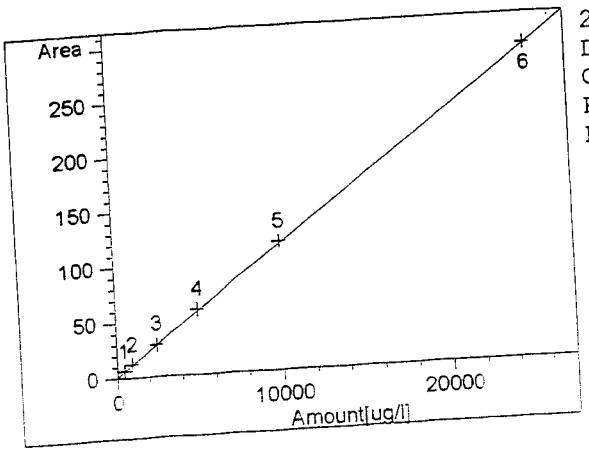
1-Methylnaphthalene (UV) at exp. RT: 6.831
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 2.56891
Formula: y = mx + b
m: 8.39433e-3
b: 2.20489
x: Amount[ug/l]
y: Area



1-Methylnaphthalene (UV) at exp. RT: 6.832
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.87319
Formula: y = mx + b
m: 3.03699e-3
b: 3.80514e-1
x: Amount[ug/l]
y: Area

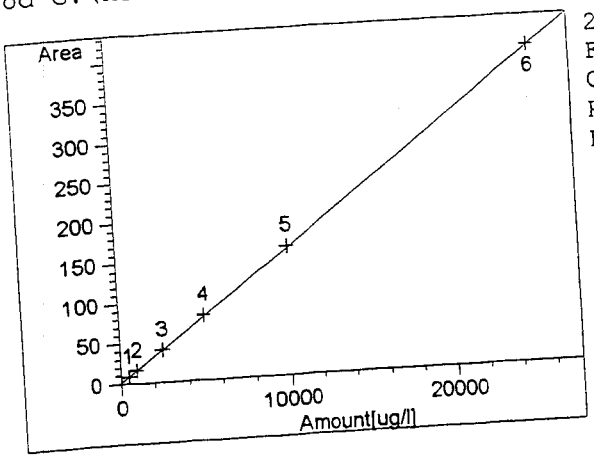


1-Methylnaphthalene (F) at exp. RT: 6.872
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99990
Residual Std. Dev.: 7.42050
Formula: y = mx + b
m: 1.27534e-2
b: 5.83375
x: Amount[ug/l]
y: Area

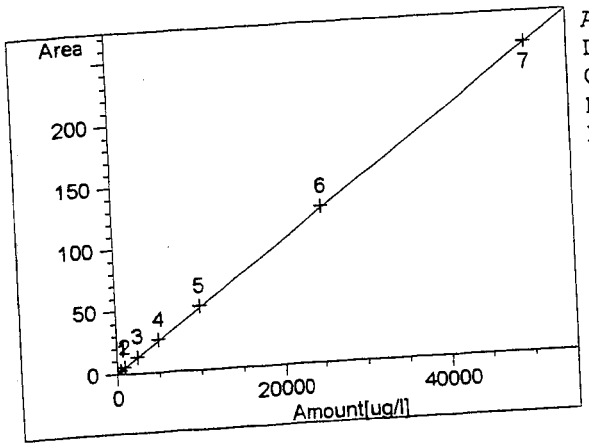


2-Methylnaphthalene at exp. RT: 7.280
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 0.93927
Formula: y = mx + b
m: 1.14550e-2
b: 4.51222e-1
x: Amount[ug/l]
y: Area

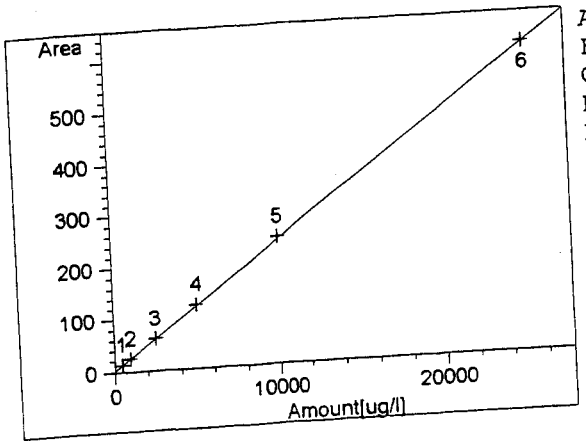
Method G:\HPLC4\METHODS\8310-315.M



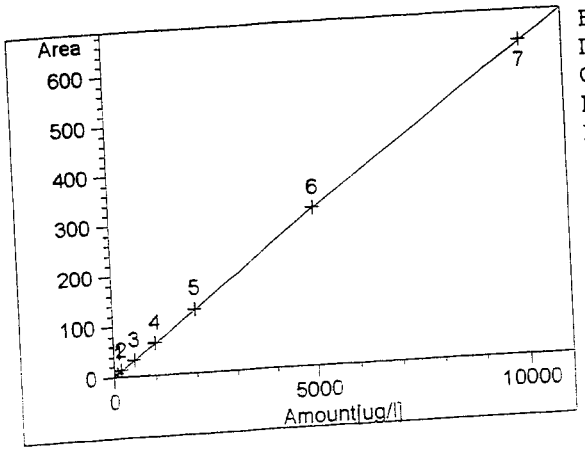
2-Methylnaphthalene at exp. RT: 7.335
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 1.42306
Formula: y = mx + b
m: 1.58022e-2
b: 9.88789e-1
x: Amount[ug/l]
y: Area



Acenaphthene at exp. RT: 7.672
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.58330
Formula: y = mx + b
m: 4.99125e-3
b: 4.27298e-1
x: Amount[ug/l]
y: Area

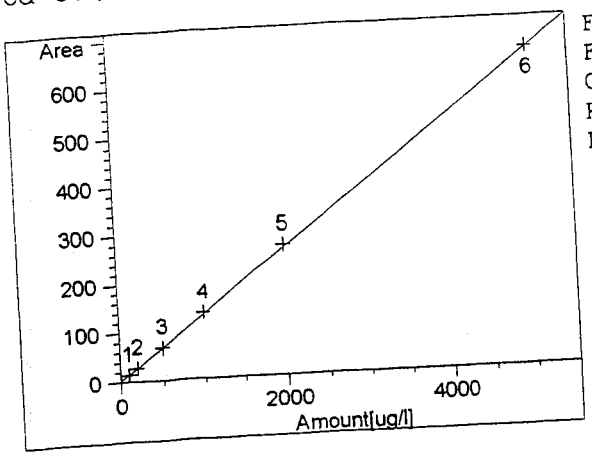


Acenaphthene at exp. RT: 7.712
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 2.28893
Formula: y = mx + b
m: 2.39146e-2
b: 1.55557
x: Amount[ug/l]
y: Area

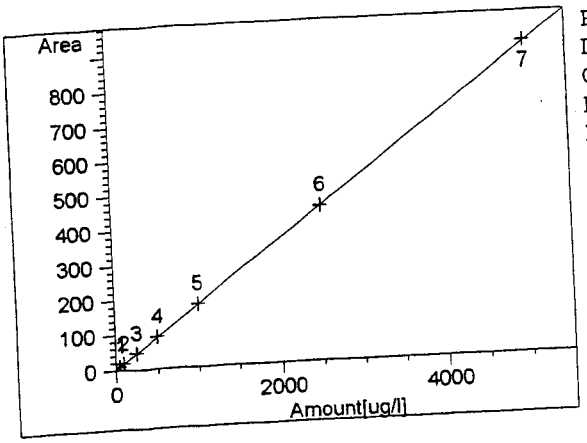


Fluorene at exp. RT: 8.199
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.73220
Formula: y = mx + b
m: 6.28687e-2
b: 1.80023e-1
x: Amount[ug/l]
y: Area

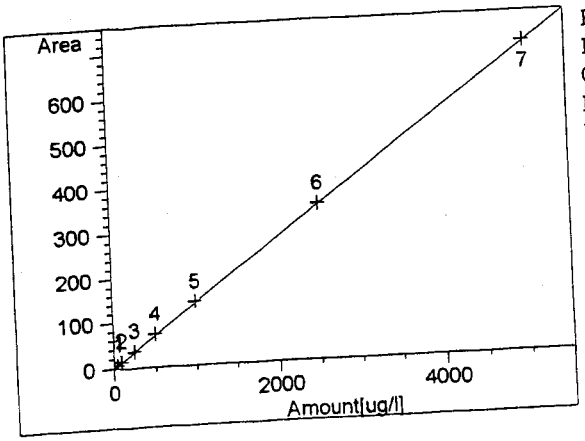
Method G:\HPLC4\METHODS\8310-315.M



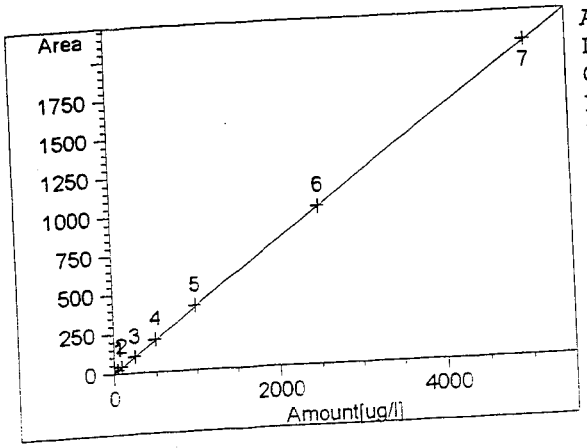
Fluorene at exp. RT: 8.239
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99995
Residual Std. Dev.: 2.84162
Formula: y = mx + b
m: 1.30167e-1
b: 2.33256
x: Amount[ug/l]
y: Area



Phenanthrene at exp. RT: 9.318
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 1.35222
Formula: y = mx + b
m: 1.79253e-1
b: 2.33836e-1
x: Amount[ug/l]
y: Area

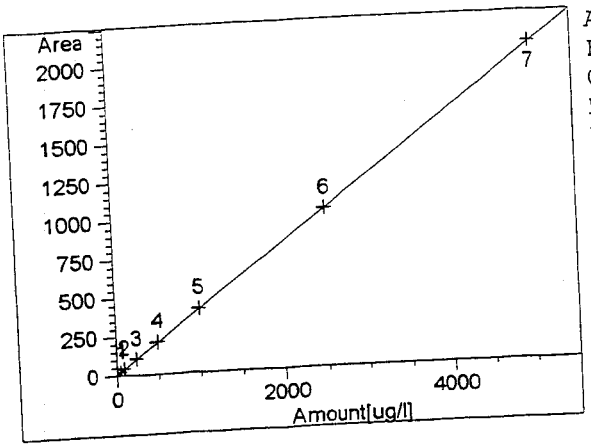


Phenanthrene at exp. RT: 9.358
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.35775
Formula: y = mx + b
m: 1.38429e-1
b: 1.21609
x: Amount[ug/l]
y: Area

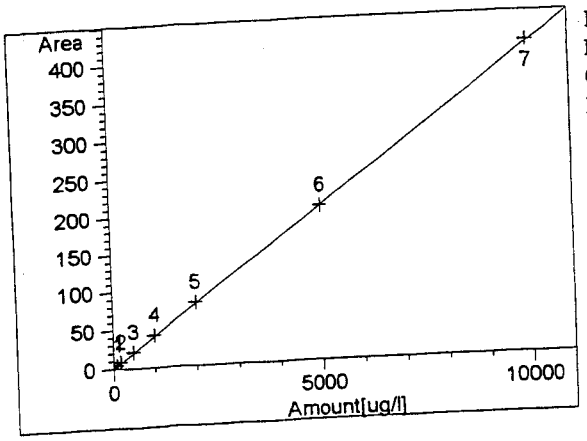


Anthracene at exp. RT: 10.346
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 2.21901
Formula: y = mx + b
m: 4.04598e-1
b: 1.39720
x: Amount[ug/l]
y: Area

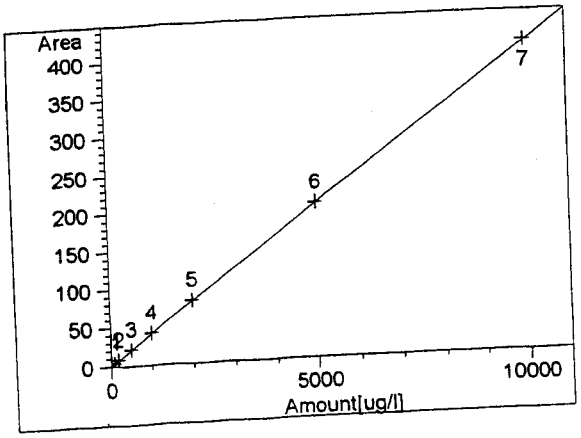
Method G:\HPLC4\METHODS\8310-315.M



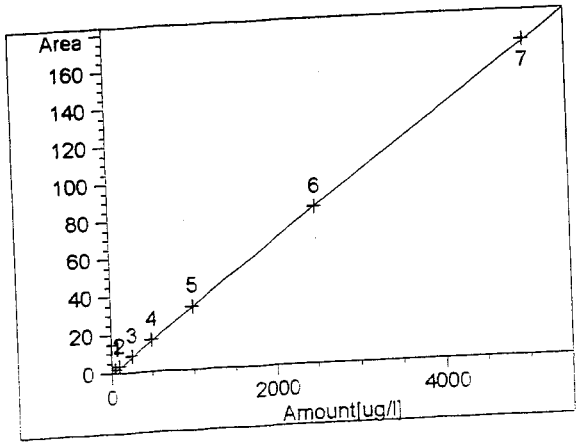
Anthracene at exp. RT: 10.386
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 2.36890
Formula: y = mx + b
m: 4.11465e-1
b: 1.03508
x: Amount[ug/l]
y: Area



Fluoranthene at exp. RT: 11.504
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.84613
Formula: y = mx + b
m: 4.11083e-2
b: -1.95725e-1
x: Amount[ug/l]
y: Area

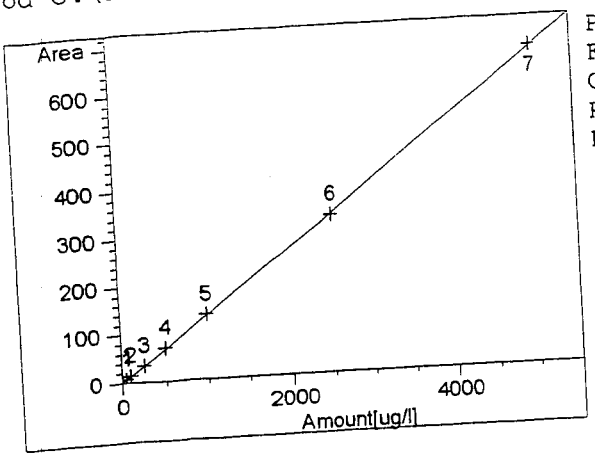


Fluoranthene at exp. RT: 11.543
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.58645
Formula: y = mx + b
m: 4.08100e-2
b: 1.09457e-1
x: Amount[ug/l]
y: Area

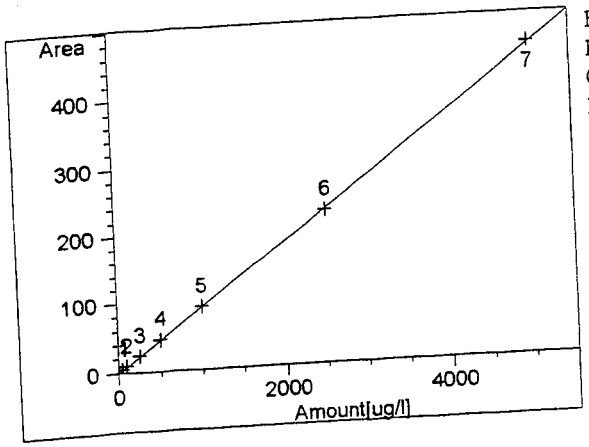


Pyrene at exp. RT: 12.274
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 0.49621
Formula: y = mx + b
m: 3.35757e-2
b: -2.87441e-1
x: Amount[ug/l]
y: Area

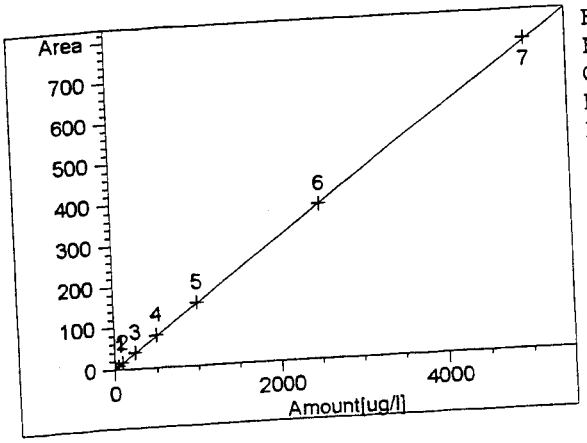
Method G:\HPLC4\METHODS\8310-315.M



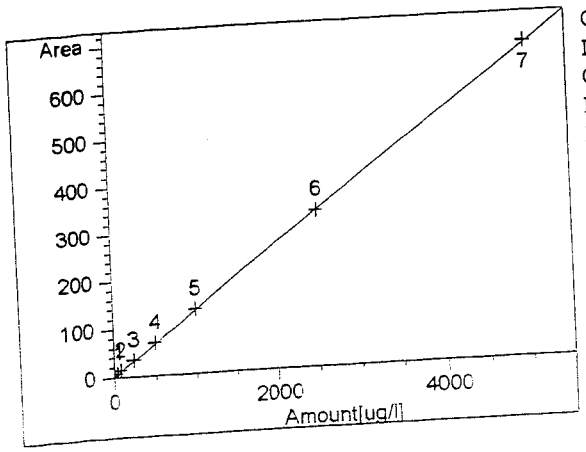
Pyrene at exp. RT: 12.313
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 2.23433
Formula: y = mx + b
m: 1.32777e-1
b: 2.88948e-1
x: Amount[ug/l]
y: Area



Benzo(a)anthracene at exp. RT: 15.125
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 1.46481
Formula: y = mx + b
m: 9.16421e-2
b: -5.64799e-1
x: Amount[ug/l]
y: Area

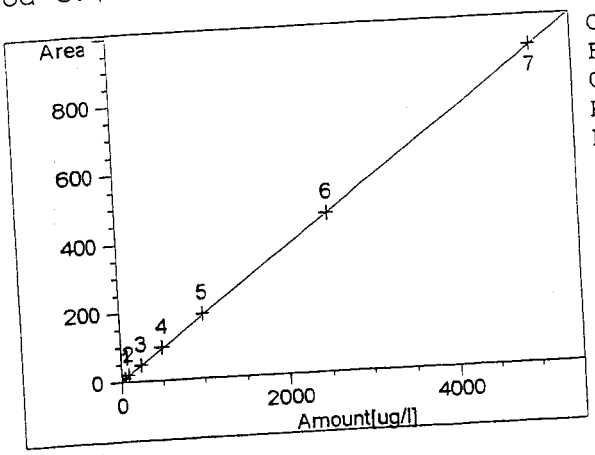


Benzo(a)anthracene at exp. RT: 15.164
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.52788
Formula: y = mx + b
m: 1.51611e-1
b: 2.05410e-1
x: Amount[ug/l]
y: Area

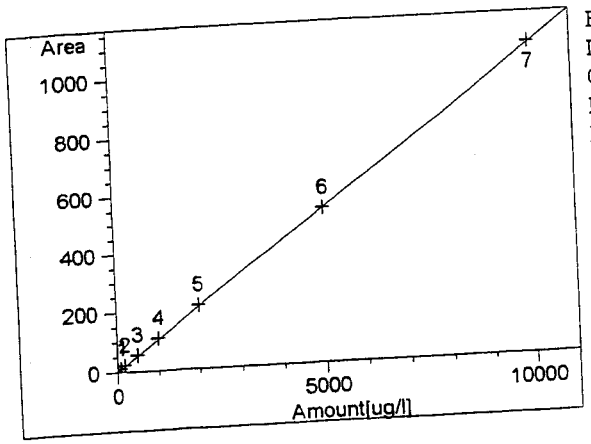


Chrysene at exp. RT: 15.624
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 1.52322
Formula: y = mx + b
m: 1.33357e-1
b: -3.52762e-1
x: Amount[ug/l]
y: Area

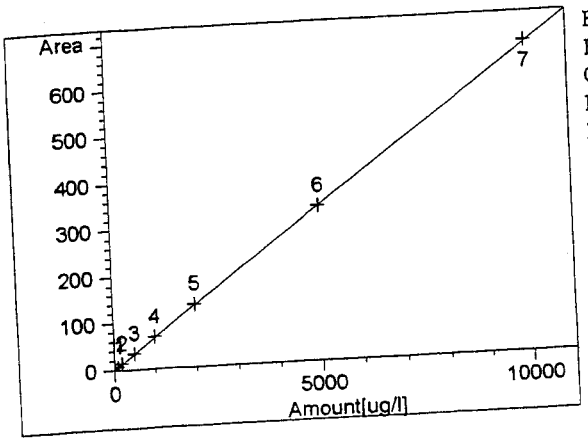
Method G:\HPLC4\METHODS\8310-315.M



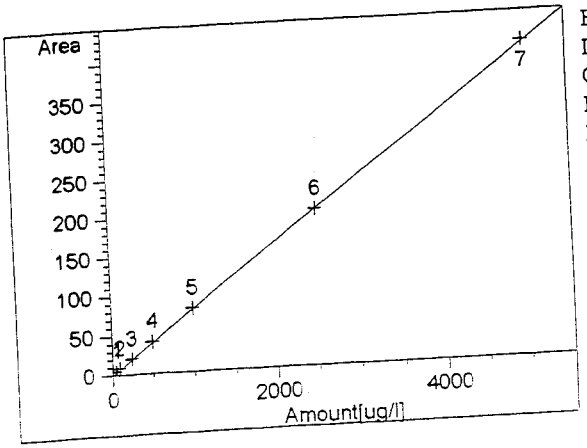
Chrysene at exp. RT: 15.664
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.42864
Formula: y = mx + b
m: 1.84313e-1
b: 9.78301e-1
x: Amount[ug/l]
y: Area



Benzo(b)fluoranthene at exp. RT: 17.842
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 1.79272
Formula: y = mx + b
m: 1.06686e-1
b: -5.73080e-1
x: Amount[ug/l]
y: Area

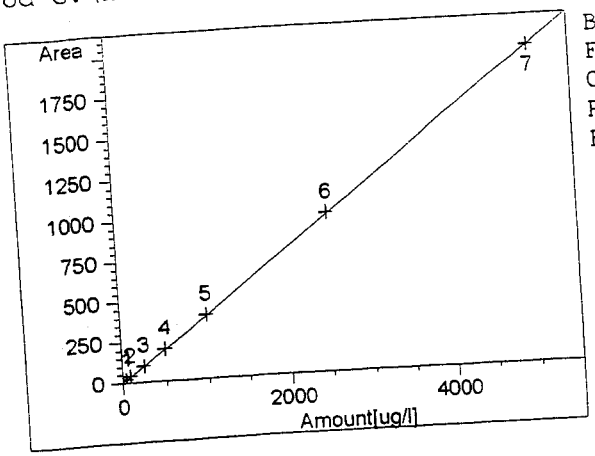


Benzo(b)fluoranthene at exp. RT: 17.883
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.32175
Formula: y = mx + b
m: 6.68690e-2
b: 2.49898e-2
x: Amount[ug/l]
y: Area

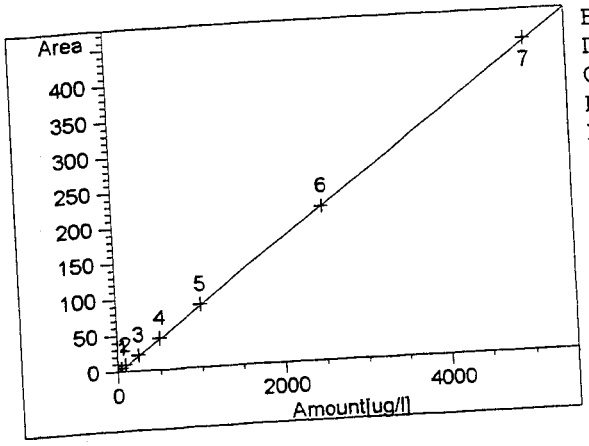


Benzo(k)fluoranthene at exp. RT: 18.796
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.98396
Formula: y = mx + b
m: 8.13261e-2
b: -7.36369e-1
x: Amount[ug/l]
y: Area

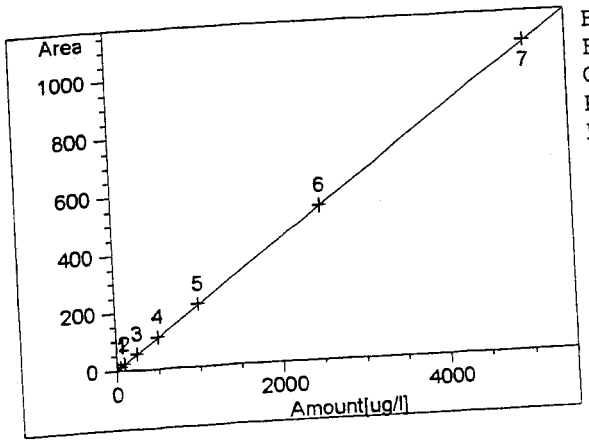
ethod G:\HPLC4\METHODS\8310-315.M



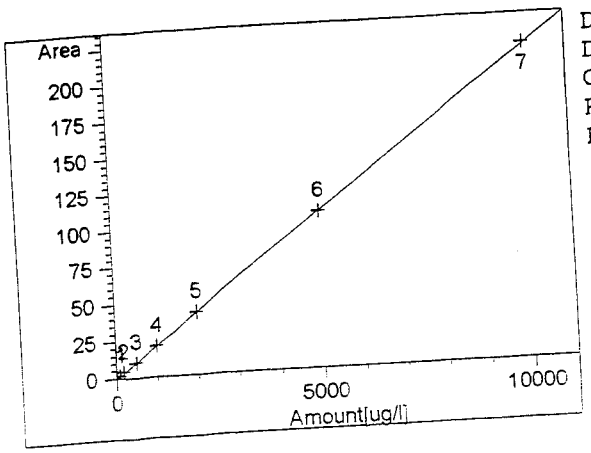
Benzo(k)fluoranthene at exp. RT: 18.837
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 3.29157
Formula: y = mx + b
m: 3.90262e-1
b: 2.80891
x: Amount[ug/l]
y: Area



Benzo(a)pyrene at exp. RT: 19.734
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.88457
Formula: y = mx + b
m: 8.70219e-2
b: -7.06704e-1
x: Amount[ug/l]
y: Area

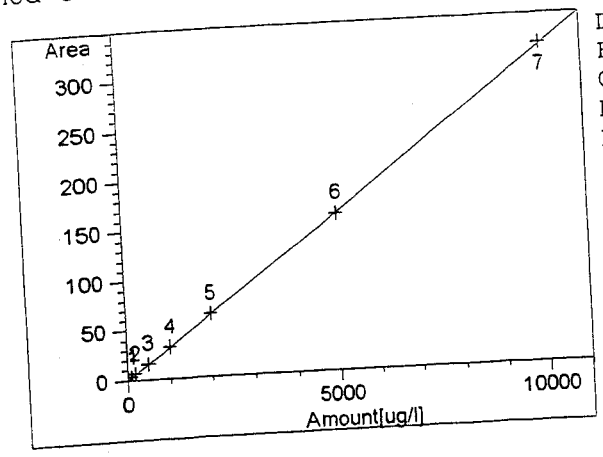


Benzo(a)pyrene at exp. RT: 19.774
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.54630
Formula: y = mx + b
m: 2.14053e-1
b: 8.29784e-1
x: Amount[ug/l]
y: Area

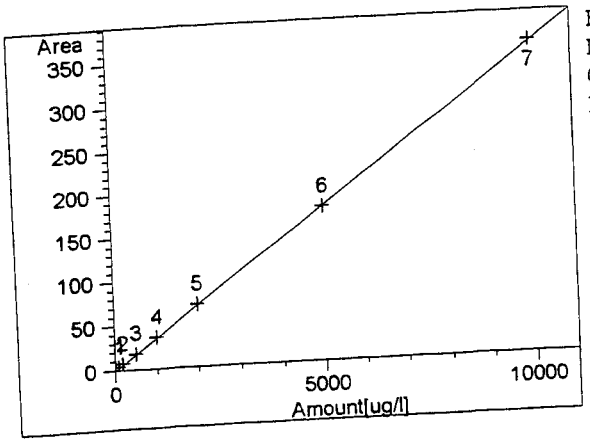


Dibenz(a,h)anthracene at exp. RT: 21.335
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.47152
Formula: y = mx + b
m: 2.15889e-2
b: -6.24820e-1
x: Amount[ug/l]
y: Area

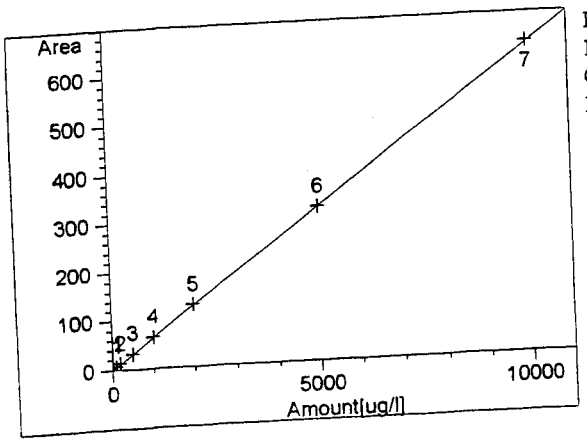
Method G:\HPLC4\METHODS\8310-315.M



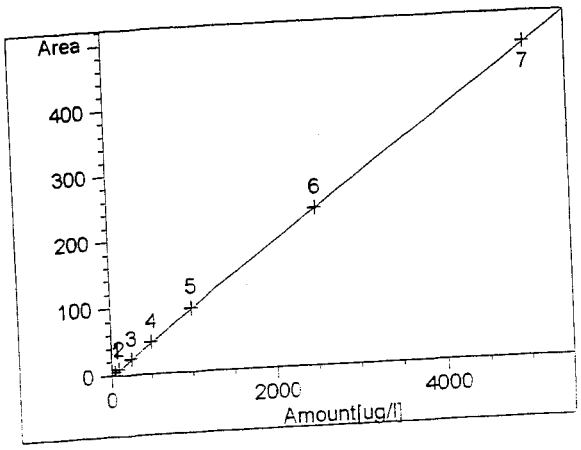
Dibenz(a,h)anthracene at exp. RT: 21.376
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.69795
Formula: y = mx + b
m: 3.19738e-2
b: -4.70523e-1
x: Amount[ug/l]
y: Area



Benzo(g,h,i)perylene at exp. RT: 22.099
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.90912
Formula: y = mx + b
m: 3.57236e-2
b: -6.18946e-1
x: Amount[ug/l]
y: Area

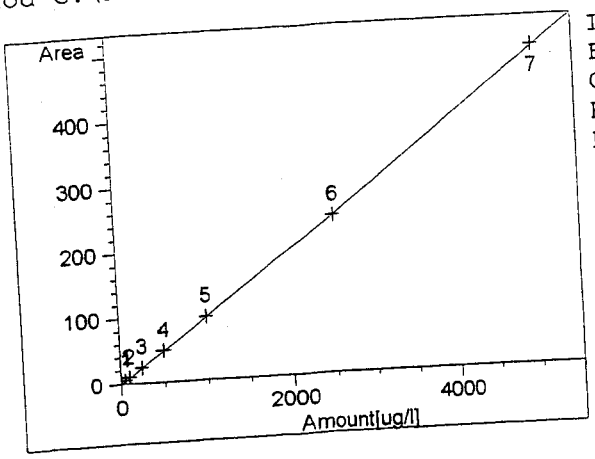


Benzo(g,h,i)perylene at exp. RT: 22.140
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.13249
Formula: y = mx + b
m: 6.38382e-2
b: -5.42335e-1
x: Amount[ug/l]
y: Area



Indeno(1,2,3-cd)pyrene at exp. RT: 22.620
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.59301
Formula: y = mx + b
m: 9.53650e-2
b: -8.30323e-1
x: Amount[ug/l]
y: Area

Method G:\HPLC4\METHODS\8310-315.M



Indeno(1,2,3-cd)pyrene at exp. RT: 22.661
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.87865
Formula: y = mx + b
m: 9.72272e-2
b: -5.98930e-1
x: Amount[ug/l]
y: Area

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CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185457 HPLC Water
EPA 8310

Inst : HPLC04
Calnum : 295454249001 Cal Date: 11-NOV-2005

ICV 295454249015 (31500015 11-NOV-2005) stds: S1859

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1	5000	5429	ug/L	9	15	
Acenaphthylene	1	10000	11450	ug/L	14	15	
Acenaphthene	1	5000	5731	ug/L	15	15	
Fluorene	1	1000	1083	ug/L	8	15	
Phenanthrene	1	500.0	527.1	ug/L	5	15	
Anthracene	1	500.0	541.6	ug/L	8	15	
Fluoranthene	1	1000	1095	ug/L	9	15	
Pyrene	1	500.0	544.7	ug/L	9	15	
Benzo(a)anthracene	1	500.0	539.7	ug/L	8	15	
Chrysene	1	500.0	541.3	ug/L	8	15	
Benzo(b)fluoranthene	1	1000	1079	ug/L	8	15	
Benzo(k)fluoranthene	1	500.0	541.4	ug/L	8	15	
Benzo(a)pyrene	1	500.0	528.7	ug/L	6	15	
Dibenz(a,h)anthracene	1	1000	1083	ug/L	8	15	
Benzo(g,h,i)perylene	1	1000	1068	ug/L	7	15	
Indeno(1,2,3-cd)pyrene	1	500.0	543.1	ug/L	9	15	
Acenaphthylene	2	10000	10910	ug/L	9	15	
Naphthalene	3	5000	5415	ug/L	8	15	
Acenaphthene	3	5000	5652	ug/L	13	15	
Fluorene	3	1000	1080	ug/L	8	15	
Phenanthrene	3	500.0	519.8	ug/L	4	15	
Anthracene	3	500.0	542.4	ug/L	8	15	
Fluoranthene	3	1000	1101	ug/L	10	15	
Pyrene	3	500.0	543.9	ug/L	9	15	
Benzo(a)anthracene	3	500.0	536.6	ug/L	7	15	
Chrysene	3	500.0	537.3	ug/L	7	15	
Benzo(b)fluoranthene	3	1000	1079	ug/L	8	15	
Benzo(k)fluoranthene	3	500.0	544.4	ug/L	9	15	
Benzo(a)pyrene	3	500.0	526.8	ug/L	5	15	
Dibenz(a,h)anthracene	3	1000	1078	ug/L	8	15	
Benzo(g,h,i)perylene	3	1000	1049	ug/L	5	15	
Indeno(1,2,3-cd)pyrene	3	500.0	542.2	ug/L	8	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185457 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: M IDF : 1.0
Seqnum : 296108595026 File : 07500026 Time : 16-MAR-2006 23:27
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2255

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0138	5000	5282	ug/L	6	15	
Acenaphthylene	1	0.0093	0.0096	10000	10340	ug/L	3	15	
Acenaphthene	1	0.0050	0.0054	5000	5360	ug/L	7	15	
Fluorene	1	0.0629	0.0651	1000	1032	ug/L	3	15	
Phenanthrene	1	0.1797	0.1863	500.0	518.3	ug/L	4	15	
Anthracene	1	0.4065	0.4478	500.0	549.9	ug/L	10	15	
Fluoranthene	1	0.0408	0.0415	1000	1015	ug/L	2	15	
Pyrene	1	0.0329	0.0349	500.0	527.6	ug/L	6	15	
Benzo(a)anthracene	1	0.0901	0.1011	500.0	557.8	ug/L	12	15	
Chrysene	1	0.1322	0.1408	500.0	530.6	ug/L	6	15	
Benzo(b)fluoranthene	1	0.1049	0.1107	1000	1043	ug/L	4	15	
Benzo(k)fluoranthene	1	0.0796	0.0855	500.0	534.6	ug/L	7	15	
Benzo(a)pyrene	1	0.0842	0.0926	500.0	539.9	ug/L	8	15	
Dibenz(a,h)anthracene	1	0.0205	0.0227	1000	1079	ug/L	8	15	
Benzo(g,h,i)perylene	1	0.0349	0.0375	1000	1066	ug/L	7	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.1062	500.0	565.6	ug/L	13	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0082	50000	48800	ug/L	-2	15	
Acenaphthylene	2	0.0277	0.0293	10000	10500	ug/L	5	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0029	50000	48070	ug/L	-4	15	
Naphthalene	3	0.0118	0.0114	5000	4828	ug/L	-3	15	
Acenaphthene	3	0.0242	0.0241	5000	4966	ug/L	-1	15	
Fluorene	3	0.1330	0.1331	1000	1005	ug/L	0	15	
Phenanthrene	3	0.1408	0.1367	500.0	484.9	ug/L	-3	15	
Anthracene	3	0.4129	0.4432	500.0	536.1	ug/L	7	15	
Fluoranthene	3	0.0409	0.0400	1000	976.7	ug/L	-2	15	
Pyrene	3	0.1339	0.1304	500.0	488.9	ug/L	-2	15	
Benzo(a)anthracene	3	0.1518	0.1587	500.0	521.9	ug/L	4	15	
Chrysene	3	0.1854	0.1850	500.0	496.7	ug/L	-1	15	
Benzo(b)fluoranthene	3	0.0668	0.0664	1000	992.9	ug/L	-1	15	
Benzo(k)fluoranthene	3	0.3937	0.4091	500.0	517.0	ug/L	3	15	
Benzo(a)pyrene	3	0.2148	0.2212	500.0	512.8	ug/L	3	15	
Dibenz(a,h)anthracene	3	0.0311	0.0326	1000	1035	ug/L	4	15	
Benzo(g,h,i)perylene	3	0.0629	0.0625	1000	987.6	ug/L	-1	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.1046	500.0	544.0	ug/L	9	15	
1-Methylnaphthalene (F)	3	0.0131	0.0116	50000	44940	ug/L	-10	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185457 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: L IDF : 1.0
Seqnum : 296108595040 File : 07500040 Time : 17-MAR-2006 06:50
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2256

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0142	2500	2716	ug/L	9	15	
Acenaphthylene	1	0.0093	0.0098	5000	5140	ug/L	3	15	
Acenaphthene	1	0.0050	0.0058	2500	2799	ug/L	12	15	
Fluorene	1	0.0629	0.0666	500.0	527.0	ug/L	5	15	
Phenanthrene	1	0.1797	0.1897	250.0	263.2	ug/L	5	15	
Anthracene	1	0.4065	0.4558	250.0	278.2	ug/L	11	15	
Fluoranthene	1	0.0408	0.0428	500.0	525.1	ug/L	5	15	
Pyrene	1	0.0329	0.0360	250.0	276.6	ug/L	11	15	
Benzo(a)anthracene	1	0.0901	0.1031	250.0	287.5	ug/L	15	15	
Chrysene	1	0.1322	0.1426	250.0	270.1	ug/L	8	15	
Benzo(b)fluoranthene	1	0.1049	0.1129	500.0	534.6	ug/L	7	15	
Benzo(k)fluoranthene	1	0.0796	0.0865	250.0	274.9	ug/L	10	15	
Benzo(a)pyrene	1	0.0842	0.0927	250.0	274.6	ug/L	10	15	
Dibenz(a,h)anthracene	1	0.0205	0.0222	500.0	542.4	ug/L	8	15	
Benzo(g,h,i)perylene	1	0.0349	0.0371	500.0	536.5	ug/L	7	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.1055	250.0	285.3	ug/L	14	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0084	50000	49800	ug/L	0	15	
Acenaphthylene	2	0.0277	0.0297	5000	5330	ug/L	7	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	49090	ug/L	-2	15	
Naphthalene	3	0.0118	0.0115	2500	2389	ug/L	-4	15	
Acenaphthene	3	0.0242	0.0246	2500	2505	ug/L	0	15	
Fluorene	3	0.1330	0.1373	500.0	509.4	ug/L	2	15	
Phenanthrene	3	0.1408	0.1372	250.0	239.1	ug/L	-4	15	
Anthracene	3	0.4129	0.4524	250.0	272.3	ug/L	9	15	
Fluoranthene	3	0.0409	0.0404	500.0	492.4	ug/L	-2	15	
Pyrene	3	0.1339	0.1278	250.0	238.4	ug/L	-5	15	
Benzo(a)anthracene	3	0.1518	0.1610	250.0	264.2	ug/L	6	15	
Chrysene	3	0.1854	0.1877	250.0	249.3	ug/L	0	15	
Benzo(b)fluoranthene	3	0.0668	0.0673	500.0	503.0	ug/L	1	15	
Benzo(k)fluoranthene	3	0.3937	0.4165	250.0	259.6	ug/L	4	15	
Benzo(a)pyrene	3	0.2148	0.2220	250.0	255.4	ug/L	2	15	
Dibenz(a,h)anthracene	3	0.0311	0.0321	500.0	516.6	ug/L	3	15	
Benzo(g,h,i)perylene	3	0.0629	0.0614	500.0	489.7	ug/L	-2	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.1045	250.0	274.9	ug/L	10	15	
1-Methylnaphthalene (F)	3	0.0131	0.0118	50000	45880	ug/L	-8	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185457 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: H IDF : 1.0
Seqnum : 296110221019 File : 07600019 Time : 17-MAR-2006 22:30
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S1578

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0137	10000	10580	ug/L	6	15	
Acenaphthylene	1	0.0093	0.0097	20000	21050	ug/L	5	15	
Acenaphthene	1	0.0050	0.0054	10000	10830	ug/L	8	15	
Fluorene	1	0.0629	0.0661	2000	2099	ug/L	5	15	
Phenanthrene	1	0.1797	0.1890	1000	1053	ug/L	5	15	
Anthracene	1	0.4065	0.4571	1000	1126	ug/L	13	15	
Fluoranthene	1	0.0408	0.0431	2000	2103	ug/L	5	15	
Pyrene	1	0.0329	0.0362	1000	1086	ug/L	9	15	
Benzo(a)anthracene	1	0.0901	0.1016	1000	1114	ug/L	11	15	
Chrysene	1	0.1322	0.1437	1000	1081	ug/L	8	15	
Benzo(b)fluoranthene	1	0.1049	0.1142	2000	2147	ug/L	7	15	
Benzo(k)fluoranthene	1	0.0796	0.0887	1000	1099	ug/L	10	15	
Benzo(a)pyrene	1	0.0842	0.0959	1000	1110	ug/L	11	15	
Dibenz(a,h)anthracene	1	0.0205	0.0232	2000	2181	ug/L	9	15	
Benzo(g,h,i)perylene	1	0.0349	0.0392	2000	2214	ug/L	11	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.1072	1000	1133	ug/L	13	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0085	50000	50580	ug/L	1	15	
Acenaphthylene	2	0.0277	0.0295	20000	21150	ug/L	6	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0031	50000	50280	ug/L	1	15	
Naphthalene	3	0.0118	0.0115	10000	9856	ug/L	-1	15	
Acenaphthene	3	0.0242	0.0242	10000	10060	ug/L	1	15	
Fluorene	3	0.1330	0.1347	2000	2052	ug/L	3	15	
Phenanthrene	3	0.1408	0.1402	1000	1004	ug/L	0	15	
Anthracene	3	0.4129	0.4553	1000	1104	ug/L	10	15	
Fluoranthene	3	0.0409	0.0414	2000	2026	ug/L	1	15	
Pyrene	3	0.1339	0.1349	1000	1014	ug/L	1	15	
Benzo(a)anthracene	3	0.1518	0.1602	1000	1055	ug/L	6	15	
Chrysene	3	0.1854	0.1909	1000	1030	ug/L	3	15	
Benzo(b)fluoranthene	3	0.0668	0.0687	2000	2056	ug/L	3	15	
Benzo(k)fluoranthene	3	0.3937	0.4214	1000	1073	ug/L	7	15	
Benzo(a)pyrene	3	0.2148	0.2295	1000	1068	ug/L	7	15	
Dibenz(a,h)anthracene	3	0.0311	0.0330	2000	2078	ug/L	4	15	
Benzo(g,h,i)perylene	3	0.0629	0.0666	2000	2096	ug/L	5	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.1054	1000	1091	ug/L	9	15	
1-Methylnaphthalene (F)	3	0.0131	0.0121	50000	46980	ug/L	-6	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185457 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: M IDF : 1.0
Seqnum : 296110221038 File : 07600038 Time : 18-MAR-2006 08:31
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2255

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0140	5000	5373	ug/L	7	15	
Acenaphthylene	1	0.0093	0.0099	10000	10670	ug/L	7	15	
Acenaphthene	1	0.0050	0.0056	5000	5535	ug/L	11	15	
Fluorene	1	0.0629	0.0671	1000	1065	ug/L	6	15	
Phenanthrene	1	0.1797	0.1913	500.0	532.3	ug/L	6	15	
Anthracene	1	0.4065	0.4636	500.0	569.4	ug/L	14	15	
Fluoranthene	1	0.0408	0.0427	1000	1044	ug/L	4	15	
Pyrene	1	0.0329	0.0356	500.0	538.6	ug/L	8	15	
Benzo(a)anthracene	1	0.0901	0.1034	500.0	570.5	ug/L	14	15	
Chrysene	1	0.1322	0.1437	500.0	541.6	ug/L	8	15	
Benzo(b)fluoranthene	1	0.1049	0.1138	1000	1072	ug/L	7	15	
Benzo(k)fluoranthene	1	0.0796	0.0870	500.0	544.0	ug/L	9	15	
Benzo(a)pyrene	1	0.0842	0.0969	500.0	564.6	ug/L	13	15	
Dibenz(a,h)anthracene	1	0.0205	0.0236	1000	1124	ug/L	12	15	
Benzo(g,h,i)perylene	1	0.0349	0.0377	1000	1072	ug/L	7	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.1062	500.0	565.6	ug/L	13	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0085	50000	50100	ug/L	0	15	
Acenaphthylene	2	0.0277	0.0301	10000	10820	ug/L	8	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	48870	ug/L	-2	15	
Naphthalene	3	0.0118	0.0116	5000	4920	ug/L	-2	15	
Acenaphthene	3	0.0242	0.0247	5000	5100	ug/L	2	15	
Fluorene	3	0.1330	0.1391	1000	1051	ug/L	5	15	
Phenanthrene	3	0.1408	0.1381	500.0	490.2	ug/L	-2	15	
Anthracene	3	0.4129	0.4612	500.0	557.9	ug/L	12	15	
Fluoranthene	3	0.0409	0.0407	1000	994.1	ug/L	-1	15	
Pyrene	3	0.1339	0.1263	500.0	473.4	ug/L	-5	15	
Benzo(a)anthracene	3	0.1518	0.1619	500.0	532.6	ug/L	7	15	
Chrysene	3	0.1854	0.1892	500.0	507.9	ug/L	2	15	
Benzo(b)fluoranthene	3	0.0668	0.0679	1000	1014	ug/L	1	15	
Benzo(k)fluoranthene	3	0.3937	0.4220	500.0	533.4	ug/L	7	15	
Benzo(a)pyrene	3	0.2148	0.2276	500.0	527.7	ug/L	6	15	
Dibenz(a,h)anthracene	3	0.0311	0.0329	1000	1044	ug/L	4	15	
Benzo(g,h,i)perylene	3	0.0629	0.0623	1000	984.2	ug/L	-2	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.1062	500.0	552.6	ug/L	11	15	
1-Methylnaphthalene (F)	3	0.0131	0.0119	50000	46080	ug/L	-8	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185457 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: L IDF : 1.0
Seqnum : 296110221049 File : 07600049 Time : 18-MAR-2006 14:19
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2256

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0142	2500	2717	ug/L	9	15	
Acenaphthylene	1	0.0093	0.0097	5000	5084	ug/L	2	15	
Acenaphthene	1	0.0050	0.0057	2500	2746	ug/L	10	15	
Fluorene	1	0.0629	0.0655	500.0	518.3	ug/L	4	15	
Phenanthrene	1	0.1797	0.1885	250.0	261.6	ug/L	5	15	
Anthracene	1	0.4065	0.4525	250.0	276.2	ug/L	10	15	
Fluoranthene	1	0.0408	0.0420	500.0	515.9	ug/L	3	15	
Pyrene	1	0.0329	0.0360	250.0	276.6	ug/L	11	15	
Benzo(a)anthracene	1	0.0901	0.1022	250.0	284.9	ug/L	14	15	
Chrysene	1	0.1322	0.1418	250.0	268.5	ug/L	7	15	
Benzo(b)fluoranthene	1	0.1049	0.1116	500.0	528.6	ug/L	6	15	
Benzo(k)fluoranthene	1	0.0796	0.0888	250.0	282.2	ug/L	13	15	
Benzo(a)pyrene	1	0.0842	0.0937	250.0	277.4	ug/L	11	15	
Dibenz(a,h)anthracene	1	0.0205	0.0225	500.0	550.0	ug/L	10	15	
Benzo(g,h,i)perylene	1	0.0349	0.0371	500.0	536.6	ug/L	7	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.1052	250.0	284.5	ug/L	14	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0083	50000	49460	ug/L	-1	15	
Acenaphthylene	2	0.0277	0.0294	5000	5289	ug/L	6	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	48850	ug/L	-2	15	
Naphthalene	3	0.0118	0.0117	2500	2436	ug/L	-3	15	
Acenaphthene	3	0.0242	0.0247	2500	2517	ug/L	1	15	
Fluorene	3	0.1330	0.1345	500.0	498.7	ug/L	0	15	
Phenanthrene	3	0.1408	0.1411	250.0	246.1	ug/L	-2	15	
Anthracene	3	0.4129	0.4455	250.0	268.2	ug/L	7	15	
Fluoranthene	3	0.0409	0.0404	500.0	492.7	ug/L	-1	15	
Pyrene	3	0.1339	0.1372	250.0	256.1	ug/L	2	15	
Benzo(a)anthracene	3	0.1518	0.1615	250.0	265.0	ug/L	6	15	
Chrysene	3	0.1854	0.1893	250.0	251.4	ug/L	1	15	
Benzo(b)fluoranthene	3	0.0668	0.0669	500.0	499.8	ug/L	0	15	
Benzo(k)fluoranthene	3	0.3937	0.4110	250.0	256.1	ug/L	2	15	
Benzo(a)pyrene	3	0.2148	0.2243	250.0	258.1	ug/L	3	15	
Dibenz(a,h)anthracene	3	0.0311	0.0322	500.0	517.6	ug/L	4	15	
Benzo(g,h,i)perylene	3	0.0629	0.0630	500.0	502.1	ug/L	0	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.1030	250.0	271.0	ug/L	8	15	
1-Methylnaphthalene (F)	3	0.0131	0.0120	50000	46720	ug/L	-7	15	

SEQUENCE SUMMARY FOR 185457 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 295454249 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 11-NOV-2005
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	31500001	X	PRIMER - 315			11-NOV-2005 10:49	1.0						
002	31500002	X	PRIMER			11-NOV-2005 11:20	1.0						
003	31500003	X	IB - 315			11-NOV-2005 11:52	1.0						
004	31500004	X	IB			11-NOV-2005 12:24	1.0						
005	31500005	X	IB			11-NOV-2005 12:55	1.0						
006	31500006	ICAL				11-NOV-2005 13:27	1.0					1	
007	31500007	ICAL				11-NOV-2005 13:58	1.0					2	
008	31500008	ICAL				11-NOV-2005 14:30	1.0					3	
009	31500009	ICAL				11-NOV-2005 15:02	1.0					4	
010	31500010	ICAL				11-NOV-2005 15:33	1.0					5	
011	31500011	ICAL				11-NOV-2005 16:05	1.0					6	
012	31500012	ICAL				11-NOV-2005 16:36	1.0					7	
013	31500013	X	IB			11-NOV-2005 17:08	1.0						
014	31500014	X	IB			11-NOV-2005 17:40	1.0						
015	31500015	ICV				11-NOV-2005 18:11	1.0		10			8	487
016	31500016	X	ICV			11-NOV-2005 18:43	1.0					8	
017	31500017	X	IB			11-NOV-2005 19:14	1.0						

Stds used: 1=S1620 2=S1619 3=S1618 4=S1617 5=S1616 6=S1615 7=S1614 8=S1859

SEQUENCE SUMMARY FOR 185457 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296108595 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 16-MAR-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	07500001	X	IB - 075			16-MAR-2006 09:55	1.0						
002	07500002	CCV	L			16-MAR-2006 10:26	1.0	1.0			10	1	
003	07500003	X	CCV			16-MAR-2006 10:58	1.0					1	
004	07500004	X	IB			16-MAR-2006 11:30	1.0						
005	07500005	LCS	QC331690	111350	Soil	16-MAR-2006 12:01	1.0	0.06734			10		
006	07500006	BLANK	QC331689	111350	Soil	16-MAR-2006 12:33	1.0	0.06623	2		10		
007	07500007	MSS	185519-013	111350	Soil	16-MAR-2006 13:04	1.0	0.06564	2		10		
008	07500008	MS	QC331691	111350	Soil	16-MAR-2006 13:36	1.0	0.06609			10		
009	07500009	MSD	QC331692	111350	Soil	16-MAR-2006 14:08	1.0	0.06594			10		
010	07500010	X	IB			16-MAR-2006 14:47	1.0						
011	07500011	CCV	H			16-MAR-2006 15:33	1.0	1.0			10	2	
012	07500012	X	CCV			16-MAR-2006 16:05	1.0					2	
013	07500013	X	IB			16-MAR-2006 16:36	1.0						
014	07500014	X	IB			16-MAR-2006 17:08	1.0						
015	07500015	SAMPLE	185414-003	111260	Water	16-MAR-2006 17:39	1.0	0.001905			10		488
016	07500016	SAMPLE	185414-004	111260	Water	16-MAR-2006 18:11	1.0	0.001905			10		
017	07500017	SAMPLE	185414-005	111260	Water	16-MAR-2006 18:43	1.0	0.001887			10		
018	07500018	SAMPLE	185414-006	111260	Water	16-MAR-2006 19:14	1.0	0.001905			10		
019	07500019	SAMPLE	185414-007	111260	Water	16-MAR-2006 19:46	1.0	0.001887			10		
020	07500020	SAMPLE	185414-008	111260	Water	16-MAR-2006 20:18	1.0	0.001905			10		
021	07500021	SAMPLE	185414-009	111260	Water	16-MAR-2006 20:49	1.0	0.001905			10		
022	07500022	SAMPLE	185414-010	111260	Water	16-MAR-2006 21:21	1.0	0.001905			10		
023	07500023	SAMPLE	185414-011	111260	Water	16-MAR-2006 21:52	1.0	0.001905		3	10		2:MTNPH2=57321.3
024	07500024	SAMPLE	185414-012	111260	Water	16-MAR-2006 22:24	1.0	0.001905			10		
025	07500025	X	IB			16-MAR-2006 22:56	1.0						
026	07500026	CCV	M			16-MAR-2006 23:27	1.0	1.0			10	3	
027	07500027	X	CCV			16-MAR-2006 23:59	1.0					3	
028	07500028	X	IB			17-MAR-2006 00:31	1.0						
029	07500029	SAMPLE	185414-013	111260	Water	17-MAR-2006 01:02	1.0	0.001887			10		
030	07500030	SAMPLE	185463-002	111260	Water	17-MAR-2006 01:34	1.0	0.001905			10		
031	07500031	LCS	QC331483	111301	Water	17-MAR-2006 02:05	1.0	0.002			10		

Stds used: 1=S2256 2=S1578 3=S2255

SEQUENCE SUMMARY FOR 185457 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296108595 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 16-MAR-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	07500032	BLANK	QC331482	111301	Water	17-MAR-2006 02:37	1.0	0.002			10		
033	07500033	SAMPLE	185457-001	111301	Water	17-MAR-2006 03:09	1.0	0.001923			10		
034	07500034	SAMPLE	185457-002	111301	Water	17-MAR-2006 03:40	1.0	0.001942			10		
035	07500035	MSS	185457-003	111301	Water	17-MAR-2006 04:12	1.0	0.001905	2		10		
036	07500036	SAMPLE	185457-004	111301	Water	17-MAR-2006 04:43	1.0	0.001942			10		
037	07500037	MS	QC331484	111301	Water	17-MAR-2006 05:15	1.0	0.001905			10		
038	07500038	MSD	QC331485	111301	Water	17-MAR-2006 05:47	1.0	0.001905		1	10		
039	07500039	X	IB			17-MAR-2006 06:18	1.0						
040	07500040	CCV	L			17-MAR-2006 06:50	1.0	1.0			10	1	
041	07500041	X	CCV			17-MAR-2006 07:22	1.0					1	
042	07500042	X	IB			17-MAR-2006 07:53	1.0						

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Stds used: 1=S2256 2=S1578 3=S2255

SEQUENCE SUMMARY FOR 185457 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296110221 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 17-MAR-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	07600001	X	IB - 076			17-MAR-2006 13:01	1.0						
002	07600002	CCV	L			17-MAR-2006 13:33	1.0	1.0			10	1	
003	07600003	X	CCV			17-MAR-2006 14:04	1.0					1	
004	07600004	X	IB			17-MAR-2006 14:36	1.0						
005	07600005	LCS	QC331873	111395	Soil	17-MAR-2006 15:08	1.0	0.06711			10		
006	07600006	BLANK	QC331872	111395	Soil	17-MAR-2006 15:39	1.0	0.06667	2		10		
007	07600007	MSS	185545-004	111395	Soil	17-MAR-2006 16:11	1.0	0.06696	2		10		
008	07600008	MS	QC331874	111395	Soil	17-MAR-2006 16:42	1.0	0.06625		4	10		
009	07600009	MSD	QC331875	111395	Soil	17-MAR-2006 17:14	1.0	0.06743		3	10		
010	07600010	X	IB			17-MAR-2006 17:46	1.0						
011	07600011	SAMPLE	185540-002	111395	Miscel	17-MAR-2006 18:17	1.0	0.06605			10		
012	07600012	SAMPLE	185540-004	111395	Miscel	17-MAR-2006 18:49	1.0	0.06743			10		
013	07600013	SAMPLE	185540-003	111395	Miscel	17-MAR-2006 19:21	1.0	0.06588			10		
014	07600014	SAMPLE	185540-007	111395	Miscel	17-MAR-2006 19:52	1.0	0.06598			10		
015	07600015	SAMPLE	185540-008	111395	Miscel	17-MAR-2006 20:24	1.0	0.06592			10		490
016	07600016	X	IB			17-MAR-2006 20:55	1.0						
017	07600017	X	IB			17-MAR-2006 21:27	1.0						
018	07600018	X	IB			17-MAR-2006 21:59	1.0						
019	07600019	CCV	H			17-MAR-2006 22:30	1.0	1.0			10	2	
020	07600020	X,CCV	H			17-MAR-2006 23:02	1.0	1.0			10	3	
021	07600021	X	IB			17-MAR-2006 23:33	1.0						
022	07600022	SAMPLE	185545-001	111395	Soil	18-MAR-2006 00:05	1.0	0.06583	4		10		4:PYR=12837.0
023	07600023	SAMPLE	185545-002	111395	Soil	18-MAR-2006 00:37	1.0	0.06764			10		
024	07600024	SAMPLE	185545-003	111395	Soil	18-MAR-2006 01:08	1.0	0.06693	2	2	10		2:PYR=9406.02
025	07600025	X	IB			18-MAR-2006 01:40	1.0						
026	07600026	SAMPLE	185540-001	111395	Miscel	18-MAR-2006 02:11	1.0	0.06689	3		10		3:FLA=20646.2
027	07600027	SAMPLE	185540-005	111395	Miscel	18-MAR-2006 02:43	1.0	0.06645			10		
028	07600028	X	IB			18-MAR-2006 03:15	1.0						
029	07600029	X	IB			18-MAR-2006 03:46	1.0						
030	07600030	SAMPLE	185540-006	111395	Miscel	18-MAR-2006 04:18	1.0	0.06709		3	10		
031	07600031	X	IB			18-MAR-2006 04:50	1.0						

Stds used: 1=S2256 2=S1578 3=S2954 4=S2255

SEQUENCE SUMMARY FOR 185457 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296110221 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 17-MAR-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	07600032	X	IB			18-MAR-2006 05:21	1.0						
033	07600033	SAMPLE	185457-005	111301	Water	18-MAR-2006 05:53	1.0	0.001923			10		
034	07600034	SAMPLE	185457-006	111301	Water	18-MAR-2006 06:24	1.0	0.001942			10		
035	07600035	SAMPLE	185457-007	111301	Water	18-MAR-2006 06:56	1.0	0.002			10		
036	07600036	SAMPLE	185457-008	111301	Water	18-MAR-2006 07:28	1.0	0.001942			10		
037	07600037	X	IB			18-MAR-2006 07:59	1.0						
038	07600038	CCV	M			18-MAR-2006 08:31	1.0	1.0			10	4	
039	07600039	X	CCV			18-MAR-2006 09:02	1.0					4	
040	07600040	X	IB			18-MAR-2006 09:34	1.0						
041	07600041	MSS	185457-016	111301	Water	18-MAR-2006 10:06	1.0	0.001961	2		10		
042	07600042	SAMPLE	185414-011	111260	Water	18-MAR-2006 10:37	1.0	0.001905		3	10		2:MTNPH2=58357.3
043	07600043	MS	QC331486	111301	Water	18-MAR-2006 11:09	1.0	0.001961		4	10		
044	07600044	MSD	QC331487	111301	Water	18-MAR-2006 11:41	1.0	0.001961		2	10		
045	07600045	MS	QC331307	111260	Water	18-MAR-2006 12:12	1.0	0.001961		11	10		
046	07600046	MSD	QC331308	111260	Water	18-MAR-2006 12:44	1.0	0.001961		12	10		
047	07600047	X	IB			18-MAR-2006 13:15	1.0						
048	07600048	X,CCV	L			18-MAR-2006 13:47	1.0	1.0	2		10	1	
049	07600049	CCV	L			18-MAR-2006 14:19	1.0	1.0			10	1	
050	07600050	X	IB			18-MAR-2006 14:50	1.0						

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Stds used: 1=S2256 2=S1578 3=S2954 4=S2255

REPORTING SUMMARY FOR 185457 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185457-001	Naphthalene	HPLC04	1	03/17/06 03:09
185457-001	Acenaphthylene	HPLC04	1	03/17/06 03:09
185457-001	Acenaphthene	HPLC04	1	03/17/06 03:09
185457-001	Fluorene	HPLC04	1	03/17/06 03:09
185457-001	Phenanthrene	HPLC04	3	03/17/06 03:09
185457-001	Anthracene	HPLC04	3	03/17/06 03:09
185457-001	Fluoranthene	HPLC04	3	03/17/06 03:09
185457-001	Pyrene	HPLC04	3	03/17/06 03:09
185457-001	Benzo(a)anthracene	HPLC04	3	03/17/06 03:09
185457-001	Chrysene	HPLC04	3	03/17/06 03:09
185457-001	Benzo(b)fluoranthene	HPLC04	3	03/17/06 03:09
185457-001	Benzo(k)fluoranthene	HPLC04	3	03/17/06 03:09
185457-001	Benzo(a)pyrene	HPLC04	3	03/17/06 03:09
185457-001	Dibenz(a,h)anthracene	HPLC04	3	03/17/06 03:09
185457-001	Benzo(g,h,i)perylene	HPLC04	3	03/17/06 03:09
185457-001	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/17/06 03:09
185457-001	1-Methylnaphthalene (UV)	HPLC04	1	03/17/06 03:09
185457-001	1-Methylnaphthalene (F)	HPLC04	3	03/17/06 03:09
185457-002	Naphthalene	HPLC04	1	03/17/06 03:40
185457-002	Acenaphthylene	HPLC04	1	03/17/06 03:40
185457-002	Acenaphthene	HPLC04	1	03/17/06 03:40
185457-002	Fluorene	HPLC04	1	03/17/06 03:40
185457-002	Phenanthrene	HPLC04	3	03/17/06 03:40
185457-002	Anthracene	HPLC04	3	03/17/06 03:40
185457-002	Fluoranthene	HPLC04	3	03/17/06 03:40
185457-002	Pyrene	HPLC04	3	03/17/06 03:40
185457-002	Benzo(a)anthracene	HPLC04	3	03/17/06 03:40
185457-002	Chrysene	HPLC04	3	03/17/06 03:40
185457-002	Benzo(b)fluoranthene	HPLC04	3	03/17/06 03:40
185457-002	Benzo(k)fluoranthene	HPLC04	3	03/17/06 03:40
185457-002	Benzo(a)pyrene	HPLC04	3	03/17/06 03:40
185457-002	Dibenz(a,h)anthracene	HPLC04	3	03/17/06 03:40
185457-002	Benzo(g,h,i)perylene	HPLC04	3	03/17/06 03:40
185457-002	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/17/06 03:40
185457-002	1-Methylnaphthalene (UV)	HPLC04	1	03/17/06 03:40
185457-002	1-Methylnaphthalene (F)	HPLC04	3	03/17/06 03:40
185457-003	Naphthalene	HPLC04	1	03/17/06 04:12
185457-003	Acenaphthylene	HPLC04	1	03/17/06 04:12
185457-003	Acenaphthene	HPLC04	1	03/17/06 04:12
185457-003	Fluorene	HPLC04	1	03/17/06 04:12
185457-003	Phenanthrene	HPLC04	3	03/17/06 04:12
185457-003	Anthracene	HPLC04	3	03/17/06 04:12
185457-003	Fluoranthene	HPLC04	3	03/17/06 04:12
185457-003	Pyrene	HPLC04	3	03/17/06 04:12
185457-003	Benzo(a)anthracene	HPLC04	3	03/17/06 04:12
185457-003	Chrysene	HPLC04	3	03/17/06 04:12
185457-003	Benzo(b)fluoranthene	HPLC04	3	03/17/06 04:12
185457-003	Benzo(k)fluoranthene	HPLC04	3	03/17/06 04:12
185457-003	Benzo(a)pyrene	HPLC04	3	03/17/06 04:12
185457-003	Dibenz(a,h)anthracene	HPLC04	3	03/17/06 04:12
185457-003	Benzo(g,h,i)perylene	HPLC04	3	03/17/06 04:12
185457-003	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/17/06 04:12

REPORTING SUMMARY FOR 185457 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185457-003	1-Methylnaphthalene (UV)	HPLC04	1	03/17/06 04:12
185457-003	1-Methylnaphthalene (F)	HPLC04	3	03/17/06 04:12
185457-004	Naphthalene	HPLC04	1	03/17/06 04:43
185457-004	Acenaphthylene	HPLC04	1	03/17/06 04:43
185457-004	Acenaphthene	HPLC04	1	03/17/06 04:43
185457-004	Fluorene	HPLC04	1	03/17/06 04:43
185457-004	Phenanthrene	HPLC04	3	03/17/06 04:43
185457-004	Anthracene	HPLC04	3	03/17/06 04:43
185457-004	Fluoranthene	HPLC04	3	03/17/06 04:43
185457-004	Pyrene	HPLC04	3	03/17/06 04:43
185457-004	Benzo(a)anthracene	HPLC04	3	03/17/06 04:43
185457-004	Chrysene	HPLC04	3	03/17/06 04:43
185457-004	Benzo(b)fluoranthene	HPLC04	3	03/17/06 04:43
185457-004	Benzo(k)fluoranthene	HPLC04	3	03/17/06 04:43
185457-004	Benzo(a)pyrene	HPLC04	3	03/17/06 04:43
185457-004	Dibenz(a,h)anthracene	HPLC04	3	03/17/06 04:43
185457-004	Benzo(g,h,i)perylene	HPLC04	3	03/17/06 04:43
185457-004	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/17/06 04:43
185457-004	1-Methylnaphthalene (UV)	HPLC04	1	03/17/06 04:43
185457-004	1-Methylnaphthalene (F)	HPLC04	3	03/17/06 04:43
185457-005	Naphthalene	HPLC04	1	03/18/06 05:53
185457-005	Acenaphthylene	HPLC04	1	03/18/06 05:53
185457-005	Acenaphthene	HPLC04	1	03/18/06 05:53
185457-005	Fluorene	HPLC04	1	03/18/06 05:53
185457-005	Phenanthrene	HPLC04	3	03/18/06 05:53
185457-005	Anthracene	HPLC04	3	03/18/06 05:53
185457-005	Fluoranthene	HPLC04	3	03/18/06 05:53
185457-005	Pyrene	HPLC04	3	03/18/06 05:53
185457-005	Benzo(a)anthracene	HPLC04	3	03/18/06 05:53
185457-005	Chrysene	HPLC04	3	03/18/06 05:53
185457-005	Benzo(b)fluoranthene	HPLC04	3	03/18/06 05:53
185457-005	Benzo(k)fluoranthene	HPLC04	3	03/18/06 05:53
185457-005	Benzo(a)pyrene	HPLC04	3	03/18/06 05:53
185457-005	Dibenz(a,h)anthracene	HPLC04	3	03/18/06 05:53
185457-005	Benzo(g,h,i)perylene	HPLC04	3	03/18/06 05:53
185457-005	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/18/06 05:53
185457-005	1-Methylnaphthalene (UV)	HPLC04	1	03/18/06 05:53
185457-005	1-Methylnaphthalene (F)	HPLC04	3	03/18/06 05:53
185457-006	Naphthalene	HPLC04	1	03/18/06 06:24
185457-006	Acenaphthylene	HPLC04	1	03/18/06 06:24
185457-006	Acenaphthene	HPLC04	1	03/18/06 06:24
185457-006	Fluorene	HPLC04	1	03/18/06 06:24
185457-006	Phenanthrene	HPLC04	3	03/18/06 06:24
185457-006	Anthracene	HPLC04	3	03/18/06 06:24
185457-006	Fluoranthene	HPLC04	3	03/18/06 06:24
185457-006	Pyrene	HPLC04	3	03/18/06 06:24
185457-006	Benzo(a)anthracene	HPLC04	3	03/18/06 06:24
185457-006	Chrysene	HPLC04	3	03/18/06 06:24
185457-006	Benzo(b)fluoranthene	HPLC04	3	03/18/06 06:24
185457-006	Benzo(k)fluoranthene	HPLC04	3	03/18/06 06:24
185457-006	Benzo(a)pyrene	HPLC04	3	03/18/06 06:24

REPORTING SUMMARY FOR 185457 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185457-006	Dibenz(a,h)anthracene	HPLC04	3	03/18/06 06:24
185457-006	Benzo(g,h,i)perylene	HPLC04	3	03/18/06 06:24
185457-006	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/18/06 06:24
185457-006	1-Methylnaphthalene (UV)	HPLC04	1	03/18/06 06:24
185457-006	1-Methylnaphthalene (F)	HPLC04	3	03/18/06 06:24
185457-007	Naphthalene	HPLC04	1	03/18/06 06:56
185457-007	Acenaphthylene	HPLC04	1	03/18/06 06:56
185457-007	Acenaphthene	HPLC04	1	03/18/06 06:56
185457-007	Fluorene	HPLC04	1	03/18/06 06:56
185457-007	Phenanthrene	HPLC04	3	03/18/06 06:56
185457-007	Anthracene	HPLC04	3	03/18/06 06:56
185457-007	Fluoranthene	HPLC04	3	03/18/06 06:56
185457-007	Pyrene	HPLC04	3	03/18/06 06:56
185457-007	Benzo(a)anthracene	HPLC04	3	03/18/06 06:56
185457-007	Chrysene	HPLC04	3	03/18/06 06:56
185457-007	Benzo(b)fluoranthene	HPLC04	3	03/18/06 06:56
185457-007	Benzo(k)fluoranthene	HPLC04	3	03/18/06 06:56
185457-007	Benzo(a)pyrene	HPLC04	3	03/18/06 06:56
185457-007	Dibenz(a,h)anthracene	HPLC04	3	03/18/06 06:56
185457-007	Benzo(g,h,i)perylene	HPLC04	3	03/18/06 06:56
185457-007	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/18/06 06:56
185457-007	1-Methylnaphthalene (UV)	HPLC04	1	03/18/06 06:56
185457-007	1-Methylnaphthalene (F)	HPLC04	3	03/18/06 06:56
185457-008	Naphthalene	HPLC04	1	03/18/06 07:28
185457-008	Acenaphthylene	HPLC04	1	03/18/06 07:28
185457-008	Acenaphthene	HPLC04	1	03/18/06 07:28
185457-008	Fluorene	HPLC04	1	03/18/06 07:28
185457-008	Phenanthrene	HPLC04	3	03/18/06 07:28
185457-008	Anthracene	HPLC04	3	03/18/06 07:28
185457-008	Fluoranthene	HPLC04	3	03/18/06 07:28
185457-008	Pyrene	HPLC04	3	03/18/06 07:28
185457-008	Benzo(a)anthracene	HPLC04	3	03/18/06 07:28
185457-008	Chrysene	HPLC04	3	03/18/06 07:28
185457-008	Benzo(b)fluoranthene	HPLC04	3	03/18/06 07:28
185457-008	Benzo(k)fluoranthene	HPLC04	3	03/18/06 07:28
185457-008	Benzo(a)pyrene	HPLC04	3	03/18/06 07:28
185457-008	Dibenz(a,h)anthracene	HPLC04	3	03/18/06 07:28
185457-008	Benzo(g,h,i)perylene	HPLC04	3	03/18/06 07:28
185457-008	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/18/06 07:28
185457-008	1-Methylnaphthalene (UV)	HPLC04	1	03/18/06 07:28
185457-008	1-Methylnaphthalene (F)	HPLC04	3	03/18/06 07:28
185457-016	Naphthalene	HPLC04	1	03/18/06 10:06
185457-016	Acenaphthylene	HPLC04	1	03/18/06 10:06
185457-016	Acenaphthene	HPLC04	1	03/18/06 10:06
185457-016	Fluorene	HPLC04	1	03/18/06 10:06
185457-016	Phenanthrene	HPLC04	3	03/18/06 10:06
185457-016	Anthracene	HPLC04	3	03/18/06 10:06
185457-016	Fluoranthene	HPLC04	3	03/18/06 10:06
185457-016	Pyrene	HPLC04	3	03/18/06 10:06
185457-016	Benzo(a)anthracene	HPLC04	3	03/18/06 10:06
185457-016	Chrysene	HPLC04	3	03/18/06 10:06

REPORTING SUMMARY FOR 185457 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185457-016	Benzo(b)fluoranthene	HPLC04	3	03/18/06 10:06
185457-016	Benzo(k)fluoranthene	HPLC04	3	03/18/06 10:06
185457-016	Benzo(a)pyrene	HPLC04	3	03/18/06 10:06
185457-016	Dibenz(a,h)anthracene	HPLC04	1	03/18/06 10:06
185457-016	Benzo(g,h,i)perylene	HPLC04	3	03/18/06 10:06
185457-016	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/18/06 10:06
185457-016	1-Methylnaphthalene (UV)	HPLC04	1	03/18/06 10:06
185457-016	1-Methylnaphthalene (F)	HPLC04	3	03/18/06 10:06
QC331482	Naphthalene	HPLC04	1	03/17/06 02:37
QC331482	Acenaphthylene	HPLC04	1	03/17/06 02:37
QC331482	Acenaphthene	HPLC04	1	03/17/06 02:37
QC331482	Fluorene	HPLC04	1	03/17/06 02:37
QC331482	Phenanthrene	HPLC04	3	03/17/06 02:37
QC331482	Anthracene	HPLC04	3	03/17/06 02:37
QC331482	Fluoranthene	HPLC04	3	03/17/06 02:37
QC331482	Pyrene	HPLC04	3	03/17/06 02:37
QC331482	Benzo(a)anthracene	HPLC04	3	03/17/06 02:37
QC331482	Chrysene	HPLC04	3	03/17/06 02:37
QC331482	Benzo(b)fluoranthene	HPLC04	3	03/17/06 02:37
QC331482	Benzo(k)fluoranthene	HPLC04	3	03/17/06 02:37
QC331482	Benzo(a)pyrene	HPLC04	3	03/17/06 02:37
QC331482	Dibenz(a,h)anthracene	HPLC04	3	03/17/06 02:37
QC331482	Benzo(g,h,i)perylene	HPLC04	3	03/17/06 02:37
QC331482	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/17/06 02:37
QC331482	1-Methylnaphthalene (UV)	HPLC04	1	03/17/06 02:37
QC331482	1-Methylnaphthalene (F)	HPLC04	3	03/17/06 02:37
QC331483	Naphthalene	HPLC04	1	03/17/06 02:05
QC331483	Fluorene	HPLC04	1	03/17/06 02:05
QC331483	Pyrene	HPLC04	3	03/17/06 02:05
QC331483	Benzo(a)pyrene	HPLC04	3	03/17/06 02:05
QC331483	1-Methylnaphthalene (UV)	HPLC04	1	03/17/06 02:05
QC331483	1-Methylnaphthalene (F)	HPLC04	3	03/17/06 02:05
QC331484	Naphthalene	HPLC04	1	03/17/06 05:15
QC331484	Fluorene	HPLC04	1	03/17/06 05:15
QC331484	Pyrene	HPLC04	3	03/17/06 05:15
QC331484	Benzo(a)pyrene	HPLC04	3	03/17/06 05:15
QC331484	1-Methylnaphthalene (UV)	HPLC04	1	03/17/06 05:15
QC331484	1-Methylnaphthalene (F)	HPLC04	3	03/17/06 05:15
QC331485	Naphthalene	HPLC04	1	03/17/06 05:47
QC331485	Fluorene	HPLC04	1	03/17/06 05:47
QC331485	Pyrene	HPLC04	3	03/17/06 05:47
QC331485	Benzo(a)pyrene	HPLC04	3	03/17/06 05:47
QC331485	1-Methylnaphthalene (UV)	HPLC04	1	03/17/06 05:47
QC331485	1-Methylnaphthalene (F)	HPLC04	3	03/17/06 05:47
QC331486	Naphthalene	HPLC04	1	03/18/06 11:09
QC331486	Fluorene	HPLC04	1	03/18/06 11:09
QC331486	Pyrene	HPLC04	3	03/18/06 11:09
QC331486	Benzo(a)pyrene	HPLC04	3	03/18/06 11:09
QC331486	1-Methylnaphthalene (UV)	HPLC04	1	03/18/06 11:09

REPORTING SUMMARY FOR 185457 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC331486	1-Methylnaphthalene (F)	HPLC04	3	03/18/06 11:09
QC331487	Naphthalene	HPLC04	1	03/18/06 11:41
QC331487	Fluorene	HPLC04	1	03/18/06 11:41
QC331487	Pyrene	HPLC04	3	03/18/06 11:41
QC331487	Benzo(a)pyrene	HPLC04	3	03/18/06 11:41
QC331487	1-Methylnaphthalene (UV)	HPLC04	1	03/18/06 11:41
QC331487	1-Methylnaphthalene (F)	HPLC04	3	03/18/06 11:41

Curtis & Tompkins Laboratories **Sample Preparation Summary** **15-MAR-2006 14:29**

Batch Number : 111301
Date Extracted: 14-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : 8310
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2841J
Spike #2 ID : S2884A
Spike #3 ID :
SOP Version : 8310w_rv6

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185457-001			Treadwell & Rollo	Water	1040	mL	2	0.001923	1	6	.1	0		8310		
185457-002			Treadwell & Rollo	Water	1030	mL	2	0.001942	1	7	.1	0		8310		
185457-003			Treadwell & Rollo	Water	1050	mL	2	0.001905	1	6	.1	0		8310		
185457-004			Treadwell & Rollo	Water	1030	mL	2	0.001942	1	6	.1	0		8310		
185457-005			Treadwell & Rollo	Water	1040	mL	2	0.001923	1	6	.1	0		8310		
185457-006			Treadwell & Rollo	Water	1030	mL	2	0.001942	1	6	.1	0		8310		
185457-007			Treadwell & Rollo	Water	1000	mL	2	0.002000	1	6	.1	0		8310		
185457-008			Treadwell & Rollo	Water	1030	mL	2	0.001942	1	6	.1	0		8310		
185457-016			Treadwell & Rollo	Water	1020	mL	2	0.001961	1	6	.1	0		8310		
QC331482	BLANK			Water	1000	mL	2	0.002000	1		.1	0		8310		
QC331483	LCS			Water	1000	mL	2	0.002000	1		.1	1		8310		
QC331484	MS	of 185457-003		Water	1050	mL	2	0.001905	1	6	.1	1		8310		
QC331485	MSD	of 185457-003		Water	1050	mL	2	0.001905	1	6	.1	1		8310		
QC331486	MS	of 185457-016		Water	1020	mL	2	0.001961	1	6	.1	1		8310		
QC331487	MSD	of 185457-016		Water	1020	mL	2	0.001961	1	6	.1	1		8310		

Prep Chemist: Jessie Mee

Reviewed By: SL Date: 3/15/06

Relinquished By: SL

Received By: CJM Date: 16MAR2006

Curtis & Tompkins, Ltd

8310 WATER PREP LOG

BK2190

LIMS Batch No: 111301
LIMS Analysis: 8310
Extracted by: JDM
Date Extracted: 14 Mar 06

Extraction Method:
☐ EPA 3510c sep. funnel
☒ EPA 3520c cont. L/L
☐ _____

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Cleanup Method (if needed):
☐ EPA 3640a GPC
☐ EPA 3630c Silica Gel

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185457-001 K	1040	6	2.0		
02 L	1030	7			
03 N	1050	6			MSS
04 E	1030				
05 M	1040				
06 J	1030				
07 J	1000				*
08 J	1030				
16 AB	1020				MSS
MB DC331482	1000	NA			
LCS 83	1000				
MS 84	1050	6			185457-003 O
MSD 85	1050	6			P
MS 86	1020				185457-016 AC
MSD 87	1020				AD

3/15/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.1 mL of surrogate solution was added to all samples	S2841J / K*	JDM 3/14/06
1.0 mL of matrix spiking solution was added to all spikes	S2884A	
☒ Samples continuously extracted with about 450 mL of CH_2Cl_2	EM46014	
Extraction Start Time:	1510	
Extraction End Time:	910	SFL 3/15/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	N/A	SFL 3/15/06
Extracts filtered through baked, CH2Cl2-rinsed powdered Na2SO4	EM45168536	
Exchanged 2x with Acetonitrile	EM45216	
Concentrated: ☒ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Silica Gel	N/A	
Extracts filtered with 0.45 um PTFE syringe filter	WHATMAN L227	

Jessica Mee 3/14/06
Extraction Chemist Date

Contined from Page ___
Continued on Page ___

3/15/06
Reviewed by Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8310 Water 3520C
As of 04/06/06

Analyte	Units	HPLC02 1	HPLC02 2	HPLC02 3	HPLC04 1	HPLC04 2	HPLC04 3
Naphthalene	ug/L	0.16		0.069	0.072		0.074
Acenaphthylene	ug/L	0.37	0.29		0.095	0.099	
2-Methylnaphthalene	ug/L				0.072		0.10
Acenaphthene	ug/L	0.36		0.098	0.064		0.089
Fluorene	ug/L	0.051		0.054	0.015		0.015
Phenanthrene	ug/L	0.030		0.0086	0.0080		0.0089
Anthracene	ug/L	0.021		0.0077	0.0075		0.0082
Fluoranthene	ug/L	0.13		0.011	0.035		0.016
Pyrene	ug/L	0.066		0.0048	0.011		0.0075
Benzo(a)anthracene	ug/L	0.044		0.0046	0.0079		0.0053
Chrysene	ug/L	0.036		0.0059	0.0075		0.0067
Benzo(b)fluoranthene	ug/L	0.032		0.0081	0.015		0.0095
Benzo(k)fluoranthene	ug/L	0.037		0.0044	0.014		0.0052
Benzo(a)pyrene	ug/L	0.055		0.0045	0.013		0.0078
Dibenz(a,h)anthracene	ug/L	0.12		0.026	0.020		0.0088
Benzo(g,h,i)perylene	ug/L	0.066		0.014	0.023		0.010
Indeno(1,2,3-cd)pyrene	ug/L	0.065		0.011	0.015		0.0064
1-Methylnaphthalene (UV)	ug/L	1.2	1.9		5.0	5.0	
1-Methylnaphthalene (F)	ug/L			0.72			5.6

METALS

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	LF5GW103	Sampled:	03/09/06
Lab ID:	185457-001	Received:	03/10/06
Matrix:	Filtrate	Prepared:	03/19/06
Units:	ug/L	Analyzed:	03/24/06
Batch#:	111436		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Barium	74	10	1.000
Beryllium	ND	2.0	1.000
Cadmium	ND	1.0	1.000
Calcium	23,000	10,000	20.00
Chromium	50	10	1.000
Cobalt	ND	10	1.000
Copper	ND	1.0	1.000
Iron	ND	100	1.000
Lead	ND	3.0	1.000
Magnesium	95,000	10,000	20.00
Manganese	ND	10	1.000
Nickel	ND	20	1.000
Potassium	1,200	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	96,000	10,000	20.00
Thallium	ND	20	20.00
Vanadium	ND	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	LF5GW102	Sampled:	03/09/06
Lab ID:	185457-002	Received:	03/10/06
Matrix:	Filtrate	Prepared:	03/19/06
Units:	ug/L	Analyzed:	03/24/06
Batch#:	111436		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Barium	ND	10	1.000
Beryllium	ND	2.0	1.000
Cadmium	ND	1.0	1.000
Calcium	2,100	500	1.000
Chromium	ND	10	1.000
Cobalt	ND	10	1.000
Copper	ND	1.0	1.000
Iron	ND	100	1.000
Lead	ND	3.0	1.000
Magnesium	100,000	10,000	20.00
Manganese	ND	10	1.000
Nickel	ND	20	1.000
Potassium	4,300	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	100,000	10,000	20.00
Thallium	ND	1.0	1.000
Vanadium	ND	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1349MW104	Sampled:	03/09/06
Lab ID:	185457-005	Received:	03/10/06
Matrix:	Filtrate	Prepared:	03/19/06
Units:	ug/L	Analyzed:	03/24/06
Batch#:	111436		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Barium	100	10	1.000
Beryllium	ND	2.0	1.000
Cadmium	ND	1.0	1.000
Calcium	75,000	10,000	20.00
Chromium	25	10	1.000
Cobalt	ND	10	1.000
Copper	ND	1.0	1.000
Iron	180	100	1.000
Lead	ND	3.0	1.000
Magnesium	290,000	10,000	20.00
Manganese	130	10	1.000
Nickel	ND	20	1.000
Potassium	2,700	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	240,000	10,000	20.00
Thallium	ND	1.0	1.000
Vanadium	ND	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1349MW103	Sampled:	03/09/06
Lab ID:	185457-006	Received:	03/10/06
Matrix:	Filtrate	Prepared:	03/19/06
Units:	ug/L	Analyzed:	03/24/06
Batch#:	111436		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Barium	26	10	1.000
Beryllium	ND	2.0	1.000
Cadmium	ND	1.0	1.000
Calcium	74,000	10,000	20.00
Chromium	ND	10	1.000
Cobalt	ND	10	1.000
Copper	ND	1.0	1.000
Iron	270	100	1.000
Lead	ND	3.0	1.000
Magnesium	330,000	10,000	20.00
Manganese	310	200	20.00
Nickel	ND	400	20.00
Potassium	5,400	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	200,000	10,000	20.00
Thallium	ND	1.0	1.000
Vanadium	ND	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	LF5GW101	Sampled:	03/09/06
Lab ID:	185457-007	Received:	03/10/06
Matrix:	Filtrate	Prepared:	03/19/06
Units:	ug/L	Analyzed:	03/24/06
Batch#:	111436		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Barium	46	10	1.000
Beryllium	ND	2.0	1.000
Cadmium	ND	1.0	1.000
Calcium	18,000	500	1.000
Chromium	53	10	1.000
Cobalt	ND	10	1.000
Copper	ND	1.0	1.000
Iron	ND	100	1.000
Lead	ND	3.0	1.000
Magnesium	130,000	10,000	20.00
Manganese	ND	10	1.000
Nickel	ND	20	1.000
Potassium	1,300	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	120,000	10,000	20.00
Thallium	ND	1.0	1.000
Vanadium	ND	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	LF5GW100	Sampled:	03/09/06
Lab ID:	185457-008	Received:	03/10/06
Matrix:	Filtrate	Prepared:	03/19/06
Units:	ug/L	Analyzed:	03/24/06
Batch#:	111436		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Barium	38	10	1.000
Beryllium	ND	2.0	1.000
Cadmium	ND	1.0	1.000
Calcium	19,000	500	1.000
Chromium	22	10	1.000
Cobalt	ND	10	1.000
Copper	ND	1.0	1.000
Iron	ND	100	1.000
Lead	ND	3.0	1.000
Magnesium	140,000	10,000	20.00
Manganese	ND	10	1.000
Nickel	ND	20	1.000
Potassium	870	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	130,000	10,000	20.00
Thallium	ND	1.0	1.000
Vanadium	ND	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	231GW10	Sampled:	03/09/06
Lab ID:	185457-009	Received:	03/10/06
Matrix:	Filtrate	Prepared:	03/14/06
Units:	ug/L	Analyzed:	03/23/06
Batch#:	111276		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Arsenic	8.9	5.0	1.000
Cadmium	ND	1.0	1.000
Calcium	58,000	5,000	10.00
Chromium	ND	10	1.000
Copper	ND	1.0	1.000
Iron	13,000	100	1.000
Lead	ND	3.0	1.000
Magnesium	66,000	5,000	10.00
Manganese	1,100	100	10.00
Nickel	ND	20	1.000
Potassium	4,400	500	1.000
Sodium	120,000	5,000	10.00
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	231GW30	Batch#:	111276
Lab ID:	185457-010	Sampled:	03/09/06
Matrix:	Filtrate	Received:	03/10/06
Units:	ug/L	Prepared:	03/14/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/23/06
Arsenic	7.2	5.0	1.000	03/23/06
Cadmium	ND	1.0	1.000	03/23/06
Calcium	88,000	10,000	20.00	03/24/06
Chromium	ND	10	1.000	03/23/06
Copper	ND	1.0	1.000	03/23/06
Iron	3,800	100	1.000	03/23/06
Lead	ND	3.0	1.000	03/23/06
Magnesium	28,000	10,000	20.00	03/24/06
Manganese	1,200	200	20.00	03/24/06
Nickel	ND	20	1.000	03/23/06
Potassium	8,200	500	1.000	03/23/06
Sodium	81,000	10,000	20.00	03/24/06
Zinc	ND	20	1.000	03/23/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	231GW22	Batch#:	111276
Lab ID:	185457-011	Sampled:	03/09/06
Matrix:	Filtrate	Received:	03/10/06
Units:	ug/L	Prepared:	03/14/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/23/06
Arsenic	31	5.0	1.000	03/23/06
Cadmium	ND	1.0	1.000	03/23/06
Calcium	69,000	10,000	20.00	03/24/06
Chromium	ND	10	1.000	03/23/06
Copper	ND	1.0	1.000	03/23/06
Iron	31,000	2,000	20.00	03/24/06
Lead	ND	3.0	1.000	03/23/06
Magnesium	85,000	10,000	20.00	03/24/06
Manganese	1,300	200	20.00	03/24/06
Nickel	ND	20	1.000	03/23/06
Potassium	37,000	10,000	20.00	03/24/06
Sodium	83,000	10,000	20.00	03/24/06
Zinc	ND	20	1.000	03/23/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DUP0309061A	Batch#:	111276
Lab ID:	185457-012	Sampled:	03/09/06
Matrix:	Filtrate	Received:	03/10/06
Units:	ug/L	Prepared:	03/14/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/23/06
Arsenic	31	5.0	1.000	03/23/06
Cadmium	ND	1.0	1.000	03/23/06
Calcium	71,000	10,000	20.00	03/24/06
Chromium	ND	10	1.000	03/23/06
Copper	ND	1.0	1.000	03/23/06
Iron	31,000	2,000	20.00	03/24/06
Lead	ND	3.0	1.000	03/23/06
Magnesium	86,000	10,000	20.00	03/24/06
Manganese	1,400	200	20.00	03/24/06
Nickel	ND	20	1.000	03/23/06
Potassium	38,000	10,000	20.00	03/24/06
Sodium	85,000	10,000	20.00	03/24/06
Zinc	21	20	1.000	03/23/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	231GW16	Batch#:	111276
Lab ID:	185457-013	Sampled:	03/09/06
Matrix:	Filtrate	Received:	03/10/06
Units:	ug/L	Prepared:	03/14/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/23/06
Arsenic	ND	5.0	1.000	03/23/06
Cadmium	ND	1.0	1.000	03/23/06
Calcium	54,000	10,000	20.00	03/24/06
Chromium	ND	10	1.000	03/23/06
Copper	ND	1.0	1.000	03/23/06
Iron	890	100	1.000	03/23/06
Lead	ND	3.0	1.000	03/23/06
Magnesium	37,000	10,000	20.00	03/24/06
Manganese	390	200	20.00	03/24/06
Nickel	ND	20	1.000	03/23/06
Potassium	16,000	500	1.000	03/23/06
Sodium	220,000	10,000	20.00	03/24/06
Zinc	ND	20	1.000	03/23/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065PZ4A	Batch#:	111603
Lab ID:	185457-014	Sampled:	03/09/06
Matrix:	Filtrate	Received:	03/10/06
Units:	ug/L	Prepared:	03/23/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/23/06
Antimony	ND	1.0	1.000	03/23/06
Arsenic	8.9	5.0	1.000	03/23/06
Cadmium	ND	1.0	1.000	03/23/06
Calcium	47,000	10,000	20.00	03/24/06
Chromium	ND	10	1.000	03/23/06
Copper	ND	1.0	1.000	03/23/06
Iron	29,000	2,000	20.00	03/24/06
Lead	ND	3.0	1.000	03/23/06
Magnesium	89,000	10,000	20.00	03/24/06
Manganese	1,700	200	20.00	03/24/06
Nickel	ND	20	1.000	03/23/06
Potassium	5,700	500	1.000	03/23/06
Sodium	100,000	10,000	20.00	03/24/06
Vanadium	ND	10	1.000	03/23/06
Zinc	ND	20	1.000	03/23/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1349MW02	Sampled:	03/10/06
Lab ID:	185457-016	Received:	03/10/06
Matrix:	Filtrate	Prepared:	03/19/06
Units:	ug/L	Analyzed:	03/24/06
Batch#:	111436		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Barium	230	200	20.00
Beryllium	ND	2.0	1.000
Cadmium	1.1	1.0	1.000
Calcium	80,000	10,000	20.00
Chromium	75	10	1.000
Cobalt	ND	10	1.000
Copper	1.2	1.0	1.000
Iron	230	100	1.000
Lead	ND	3.0	1.000
Magnesium	260,000	10,000	20.00
Manganese	13	10	1.000
Nickel	ND	20	1.000
Potassium	810	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	210,000	10,000	20.00
Thallium	ND	1.0	1.000
Vanadium	ND	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	231PZ02	Batch#:	111276
Lab ID:	185457-017	Sampled:	03/10/06
Matrix:	Filtrate	Received:	03/10/06
Units:	ug/L	Prepared:	03/14/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/23/06
Arsenic	ND	5.0	1.000	03/23/06
Cadmium	ND	1.0	1.000	03/23/06
Calcium	160,000	10,000	20.00	03/24/06
Chromium	ND	10	1.000	03/23/06
Copper	ND	1.0	1.000	03/23/06
Iron	5,600	100	1.000	03/23/06
Lead	ND	3.0	1.000	03/23/06
Magnesium	58,000	10,000	20.00	03/24/06
Manganese	2,800	200	20.00	03/24/06
Nickel	ND	20	1.000	03/23/06
Potassium	8,300	500	1.000	03/23/06
Sodium	180,000	10,000	20.00	03/24/06
Zinc	ND	20	1.000	03/23/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065PZ3B	Batch#:	111603
Lab ID:	185457-021	Sampled:	03/09/06
Matrix:	Filtrate	Received:	03/10/06
Units:	ug/L	Prepared:	03/23/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/23/06
Antimony	ND	1.0	1.000	03/23/06
Arsenic	ND	5.0	1.000	03/23/06
Cadmium	ND	1.0	1.000	03/23/06
Calcium	34,000	10,000	20.00	03/24/06
Chromium	34	10	1.000	03/23/06
Copper	1.0	1.0	1.000	03/23/06
Iron	240	100	1.000	03/23/06
Lead	ND	3.0	1.000	03/23/06
Magnesium	51,000	10,000	20.00	03/24/06
Manganese	ND	10	1.000	03/23/06
Nickel	ND	20	1.000	03/23/06
Potassium	ND	500	1.000	03/23/06
Sodium	67,000	10,000	20.00	03/24/06
Vanadium	15	10	1.000	03/23/06
Zinc	ND	20	1.000	03/23/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065MW9B	Batch#:	111603
Lab ID:	185457-022	Sampled:	03/09/06
Matrix:	Filtrate	Received:	03/10/06
Units:	ug/L	Prepared:	03/23/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/23/06
Antimony	ND	1.0	1.000	03/23/06
Arsenic	ND	5.0	1.000	03/23/06
Cadmium	ND	1.0	1.000	03/23/06
Calcium	34,000	10,000	20.00	03/24/06
Chromium	36	10	1.000	03/23/06
Copper	ND	1.0	1.000	03/23/06
Iron	220	100	1.000	03/23/06
Lead	ND	3.0	1.000	03/23/06
Magnesium	53,000	10,000	20.00	03/24/06
Manganese	ND	10	1.000	03/23/06
Nickel	ND	20	1.000	03/23/06
Potassium	720	500	1.000	03/23/06
Sodium	59,000	10,000	20.00	03/24/06
Vanadium	14	10	1.000	03/23/06
Zinc	25	20	1.000	03/23/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065MW9A	Batch#:	111603
Lab ID:	185457-023	Sampled:	03/09/06
Matrix:	Filtrate	Received:	03/10/06
Units:	ug/L	Prepared:	03/23/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/23/06
Antimony	ND	1.0	1.000	03/23/06
Arsenic	5.3	5.0	1.000	03/23/06
Cadmium	ND	1.0	1.000	03/23/06
Calcium	54,000	10,000	20.00	03/24/06
Chromium	ND	10	1.000	03/23/06
Copper	ND	1.0	1.000	03/23/06
Iron	5,400	100	1.000	03/23/06
Lead	ND	3.0	1.000	03/23/06
Magnesium	90,000	10,000	20.00	03/24/06
Manganese	570	200	20.00	03/24/06
Nickel	ND	20	1.000	03/23/06
Potassium	13,000	500	1.000	03/23/06
Sodium	69,000	10,000	20.00	03/24/06
Vanadium	ND	10	1.000	03/23/06
Zinc	ND	20	1.000	03/23/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DUP0309062B	Batch#:	111603
Lab ID:	185457-024	Sampled:	03/09/06
Matrix:	Filtrate	Received:	03/10/06
Units:	ug/L	Prepared:	03/23/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/23/06
Antimony	ND	1.0	1.000	03/23/06
Arsenic	6.3	5.0	1.000	03/23/06
Cadmium	ND	1.0	1.000	03/23/06
Calcium	53,000	10,000	20.00	03/24/06
Chromium	ND	10	1.000	03/23/06
Copper	ND	1.0	1.000	03/23/06
Iron	6,100	100	1.000	03/23/06
Lead	ND	3.0	1.000	03/23/06
Magnesium	90,000	10,000	20.00	03/24/06
Manganese	600	200	20.00	03/24/06
Nickel	ND	20	1.000	03/23/06
Potassium	12,000	500	1.000	03/23/06
Sodium	69,000	10,000	20.00	03/24/06
Vanadium	ND	10	1.000	03/23/06
Zinc	ND	20	1.000	03/23/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065MW11A	Batch#:	111603
Lab ID:	185457-025	Sampled:	03/09/06
Matrix:	Filtrate	Received:	03/10/06
Units:	ug/L	Prepared:	03/23/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/23/06
Antimony	ND	1.0	1.000	03/23/06
Arsenic	ND	5.0	1.000	03/23/06
Cadmium	ND	1.0	1.000	03/23/06
Calcium	16,000	500	1.000	03/23/06
Chromium	12	10	1.000	03/23/06
Copper	ND	1.0	1.000	03/23/06
Iron	120	100	1.000	03/23/06
Lead	ND	3.0	1.000	03/23/06
Magnesium	18,000	500	1.000	03/23/06
Manganese	ND	10	1.000	03/23/06
Nickel	ND	20	1.000	03/23/06
Potassium	ND	500	1.000	03/23/06
Sodium	31,000	10,000	20.00	03/24/06
Vanadium	ND	10	1.000	03/23/06
Zinc	ND	20	1.000	03/23/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065MW10B	Batch#:	111603
Lab ID:	185457-026	Sampled:	03/09/06
Matrix:	Filtrate	Received:	03/10/06
Units:	ug/L	Prepared:	03/23/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/23/06
Antimony	ND	1.0	1.000	03/23/06
Arsenic	ND	5.0	1.000	03/23/06
Cadmium	ND	1.0	1.000	03/23/06
Calcium	32,000	10,000	20.00	03/24/06
Chromium	37	10	1.000	03/23/06
Copper	ND	1.0	1.000	03/23/06
Iron	190	100	1.000	03/23/06
Lead	ND	3.0	1.000	03/23/06
Magnesium	47,000	10,000	20.00	03/24/06
Manganese	ND	10	1.000	03/23/06
Nickel	ND	20	1.000	03/23/06
Potassium	550	500	1.000	03/23/06
Sodium	57,000	10,000	20.00	03/24/06
Vanadium	16	10	1.000	03/23/06
Zinc	ND	20	1.000	03/23/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065PZ6B	Sampled:	03/10/06
Lab ID:	185457-027	Received:	03/10/06
Matrix:	Filtrate	Prepared:	03/23/06
Units:	ug/L	Analyzed:	03/23/06
Batch#:	111603		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Cadmium	ND	1.0	1.000
Calcium	38,000	5,000	10.00
Chromium	40	10	1.000
Copper	ND	1.0	1.000
Iron	200	100	1.000
Lead	ND	3.0	1.000
Magnesium	54,000	5,000	10.00
Manganese	ND	10	1.000
Nickel	ND	20	1.000
Potassium	700	500	1.000
Sodium	68,000	5,000	10.00
Vanadium	14	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved			
Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331373	Batch#:	111276
Matrix:	Filtrate	Prepared:	03/14/06
Units:	ug/L	Analyzed:	03/23/06

Analyte	Result	RL
Aluminum	ND	100
Arsenic	ND	5.0
Cadmium	ND	1.0
Calcium	ND	500
Chromium	ND	10
Copper	ND	1.0
Iron	ND	100
Lead	ND	3.0
Magnesium	ND	500
Manganese	ND	10
Nickel	ND	20
Potassium	ND	500
Sodium	ND	500
Zinc	ND	20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332055	Batch#:	111436
Matrix:	Filtrate	Prepared:	03/19/06
Units:	ug/L	Analyzed:	03/24/06

Analyte	Result	RL
Aluminum	ND	100
Antimony	ND	1.0
Arsenic	ND	5.0
Barium	ND	10
Beryllium	ND	2.0
Cadmium	ND	1.0
Calcium	ND	500
Chromium	ND	10
Cobalt	ND	10
Copper	ND	1.0
Iron	ND	100
Lead	ND	3.0
Magnesium	ND	500
Manganese	ND	10
Nickel	ND	20
Potassium	ND	500
Selenium	ND	5.0
Silver	ND	1.0
Sodium	ND	500
Thallium	ND	1.0
Vanadium	ND	10
Zinc	ND	20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332723	Batch#:	111603
Matrix:	Filtrate	Prepared:	03/23/06
Units:	ug/L		

Analyte	Result	RL	Analyzed
Aluminum	ND	100	03/23/06
Antimony	ND	1.0	03/23/06
Arsenic	ND	5.0	03/23/06
Cadmium	ND	1.0	03/23/06
Calcium	ND	500	03/23/06
Chromium	ND	10	03/24/06
Copper	ND	1.0	03/23/06
Iron	ND	100	03/23/06
Lead	ND	3.0	03/23/06
Magnesium	ND	500	03/23/06
Manganese	ND	10	03/23/06
Nickel	ND	20	03/23/06
Potassium	ND	500	03/23/06
Sodium	ND	500	03/23/06
Vanadium	ND	10	03/24/06
Zinc	ND	20	03/23/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Mercury by Cold Vapor AA

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	111380
Matrix:	Filtrate	Received:	03/10/06
Units:	ug/L	Prepared:	03/16/06
Diln Fac:	1.000	Analyzed:	03/16/06

Field ID	Type	Lab ID	Result	RL	Sampled
LF5GW103	SAMPLE	185457-001	ND	0.20	03/09/06
LF5GW102	SAMPLE	185457-002	ND	0.20	03/09/06
1349MW104	SAMPLE	185457-005	ND	0.20	03/09/06
1349MW103	SAMPLE	185457-006	ND	0.20	03/09/06
LF5GW101	SAMPLE	185457-007	ND	0.20	03/09/06
LF5GW100	SAMPLE	185457-008	ND	0.20	03/09/06
1349MW02	SAMPLE	185457-016	ND	0.20	03/10/06
	BLANK	QC331792	ND	0.20	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Matrix:	Filtrate	Batch#:	111276
Units:	ug/L	Prepared:	03/14/06
Diln Fac:	1.000	Analyzed:	03/23/06

Type: BS Lab ID: QC331374

Analyte	Spiked	Result	%REC	Limits
Aluminum	100.0	107.5	108	80-120
Arsenic	100.0	101.0	101	80-120
Cadmium	100.0	100.6	101	80-120
Calcium	10,000	10,090	101	80-120
Chromium	100.0	101.8	102	80-120
Copper	100.0	103.9	104	80-120
Iron	10,000	10,520	105	80-120
Lead	100.0	105.6	106	80-120
Magnesium	10,000	10,360	104	80-120
Manganese	100.0	101.9	102	80-120
Nickel	100.0	103.1	103	80-120
Potassium	10,000	10,320	103	80-120
Sodium	10,000	10,300	103	80-120
Zinc	100.0	98.57	99	80-120

Type: BSD Lab ID: QC331375

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	100.0	101.7	102	80-120	6	20
Arsenic	100.0	101.1	101	80-120	0	20
Cadmium	100.0	99.27	99	80-120	1	20
Calcium	10,000	10,160	102	80-120	1	20
Chromium	100.0	105.0	105	80-120	3	20
Copper	100.0	102.0	102	80-120	2	20
Iron	10,000	10,450	105	80-120	1	20
Lead	100.0	104.7	105	80-120	1	20
Magnesium	10,000	10,220	102	80-120	1	20
Manganese	100.0	101.7	102	80-120	0	20
Nickel	100.0	102.9	103	80-120	0	20
Potassium	10,000	10,150	102	80-120	2	20
Sodium	10,000	10,060	101	80-120	2	20
Zinc	100.0	96.48	96	80-120	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Matrix:	Filtrate	Batch#:	111436
Units:	ug/L	Prepared:	03/19/06
Diln Fac:	1.000	Analyzed:	03/24/06

Type: BS Lab ID: QC332056

Analyte	Spiked	Result	%REC	Limits
Aluminum	100.0	103.5	104	80-120
Antimony	100.0	107.2	107	80-120
Arsenic	100.0	103.1	103	80-120
Barium	100.0	99.58	100	80-120
Beryllium	100.0	101.7	102	80-120
Cadmium	100.0	101.3	101	80-120
Calcium	10,000	10,660	107	80-120
Chromium	100.0	104.5	105	80-120
Cobalt	100.0	103.6	104	80-120
Copper	100.0	106.4	106	80-120
Iron	10,000	10,590	106	80-120
Lead	100.0	102.8	103	80-120
Magnesium	10,000	10,650	107	80-120
Manganese	100.0	102.3	102	80-120
Nickel	100.0	105.8	106	80-120
Potassium	10,000	10,750	108	80-120
Selenium	100.0	92.33	92	80-120
Silver	100.0	106.8	107	80-120
Sodium	10,000	10,560	106	80-120
Thallium	100.0	97.51	98	80-120
Vanadium	100.0	102.1	102	80-120
Zinc	100.0	97.49	97	80-120

Type: BSD Lab ID: QC332057

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	100.0	103.5	104	80-120	0	20
Antimony	100.0	105.3	105	80-120	2	20
Arsenic	100.0	102.4	102	80-120	1	20
Barium	100.0	99.21	99	80-120	0	20
Beryllium	100.0	98.26	98	80-120	3	20
Cadmium	100.0	99.96	100	80-120	1	20
Calcium	10,000	10,500	105	80-120	2	20
Chromium	100.0	102.0	102	80-120	2	20
Cobalt	100.0	100.7	101	80-120	3	20
Copper	100.0	104.9	105	80-120	1	20
Iron	10,000	10,260	103	80-120	3	20
Lead	100.0	103.5	104	80-120	1	20
Magnesium	10,000	10,650	107	80-120	0	20
Manganese	100.0	98.22	98	80-120	4	20
Nickel	100.0	103.6	104	80-120	2	20
Potassium	10,000	10,770	108	80-120	0	20
Selenium	100.0	91.77	92	80-120	1	20
Silver	100.0	104.9	105	80-120	2	20
Sodium	10,000	10,400	104	80-120	2	20
Thallium	100.0	97.48	97	80-120	0	20
Vanadium	100.0	100.2	100	80-120	2	20
Zinc	100.0	94.43	94	80-120	3	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Matrix:	Filtrate	Batch#:	111603
Units:	ug/L	Prepared:	03/23/06
Diln Fac:	1.000	Analyzed:	03/23/06

Type: BS Lab ID: QC332724

Analyte	Spiked	Result	%REC	Limits
Aluminum	100.0	104.1	104	80-120
Antimony	100.0	99.06	99	80-120
Arsenic	100.0	96.88	97	80-120
Cadmium	100.0	97.21	97	80-120
Calcium	10,000	10,270	103	80-120
Chromium	100.0	106.1	106	80-120
Copper	100.0	101.9	102	80-120
Iron	10,000	10,530	105	80-120
Lead	100.0	104.6	105	80-120
Magnesium	10,000	9,975	100	80-120
Manganese	100.0	103.9	104	80-120
Nickel	100.0	102.6	103	80-120
Potassium	10,000	10,450	105	80-120
Sodium	10,000	9,802	98	80-120
Vanadium	100.0	105.0	105	80-120
Zinc	100.0	90.47	90	80-120

Type: BSD Lab ID: QC332725

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	100.0	106.2	106	80-120	2	20
Antimony	100.0	99.80	100	80-120	1	20
Arsenic	100.0	94.91	95	80-120	2	20
Cadmium	100.0	98.00	98	80-120	1	20
Calcium	10,000	10,070	101	80-120	2	20
Chromium	100.0	98.44	98	80-120	7	20
Copper	100.0	99.90	100	80-120	2	20
Iron	10,000	10,430	104	80-120	1	20
Lead	100.0	106.5	107	80-120	2	20
Magnesium	10,000	10,180	102	80-120	2	20
Manganese	100.0	100.7	101	80-120	3	20
Nickel	100.0	99.95	100	80-120	3	20
Potassium	10,000	10,060	101	80-120	4	20
Sodium	10,000	10,160	102	80-120	4	20
Vanadium	100.0	95.90	96	80-120	9	20
Zinc	100.0	91.11	91	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Mercury by Cold Vapor AA

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	111380
Field ID:	1349MW02	Sampled:	03/10/06
MSS Lab ID:	185457-016	Received:	03/10/06
Matrix:	Filtrate	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/16/06
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC331794		5.000	5.060	101	80-120		
BSD	QC331795		5.000	4.960	99	80-120	2	20
MS	QC331796	<0.07957	5.000	5.240	105	75-125		
MSD	QC331797		5.000	5.480	110	75-125	4	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	231GW10	Sampled:	03/09/06
MSS Lab ID:	185457-009	Received:	03/10/06
Matrix:	Filtrate	Prepared:	03/14/06
Units:	ug/L	Analyzed:	03/23/06
Batch#:	111276		

Type: MS Lab ID: QC331376

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln Fac
Aluminum	3.736	100.0	98.23	94	75-125	1.000
Arsenic	8.917	100.0	107.0	98	75-125	1.000
Cadmium	<0.1409	100.0	90.83	91	75-125	1.000
Calcium	58,100	10,000	66,050 >LR	80 NM	75-125	1.000
Chromium	0.6640	100.0	103.7	103	75-125	1.000
Copper	0.3913	100.0	96.96	97	75-125	1.000
Iron	12,910	10,000	20,840	79	75-125	10.00
Lead	<0.2399	100.0	105.8	106	75-125	1.000
Magnesium	65,690	10,000	71,080 >LR	54 NM	75-125	1.000
Manganese	1,062	100.0	1,195 >LR	133 NM	75-125	1.000
Nickel	1.872	100.0	99.32	97	75-125	1.000
Potassium	4,368	10,000	14,430	101	75-125	1.000
Sodium	119,300	10,000	118,900 >LR	-4 NM	75-125	1.000
Zinc	1.237	100.0	93.14	92	75-125	1.000

Type: MSD Lab ID: QC331377

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
Aluminum	100.0	95.94	92	75-125	2	20	1.000
Arsenic	100.0	105.9	97	75-125	1	20	1.000
Cadmium	100.0	90.18	90	75-125	1	20	1.000
Calcium	10,000	65,250 >LR	72 NM	75-125	NC	20	1.000
Chromium	100.0	103.8	103	75-125	0	20	1.000
Copper	100.0	95.28	95	75-125	2	20	1.000
Iron	10,000	22,090	92	75-125	6	20	10.00
Lead	100.0	105.4	105	75-125	0	20	1.000
Magnesium	10,000	68,980 >LR	33 NM	75-125	NC	20	1.000
Manganese	100.0	1,194 >LR	132 NM	75-125	NC	20	1.000
Nickel	100.0	98.96	97	75-125	0	20	1.000
Potassium	10,000	13,990	96	75-125	3	20	1.000
Sodium	10,000	116,900 >LR	-24 NM	75-125	NC	20	1.000
Zinc	100.0	91.10	90	75-125	2	20	1.000

NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1349MW02	Sampled:	03/10/06
MSS Lab ID:	185457-016	Received:	03/10/06
Matrix:	Filtrate	Prepared:	03/19/06
Units:	ug/L	Analyzed:	03/24/06
Batch#:	111436		

Type: MS Lab ID: QC332058

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln Fac
Aluminum	17.02	100.0	104.7	88	75-125	1.000
Antimony	0.6129	100.0	107.8	107	75-125	1.000
Arsenic	0.9884	100.0	95.23	94	75-125	1.000
Barium	226.3	100.0	318.7	92	75-125	20.00
Beryllium	0.1658	100.0	93.02	93	75-125	1.000
Cadmium	1.115	100.0	91.07	90	75-125	1.000
Calcium	79,580	10,000	85,450 >LR	59 NM	75-125	1.000
Chromium	75.08	100.0	178.7	104	75-125	1.000
Cobalt	0.2945	100.0	98.77	98	75-125	1.000
Copper	1.188	100.0	96.45	95	75-125	1.000
Iron	233.4	10,000	10,680	104	75-125	1.000
Lead	<0.2399	100.0	109.5	110	75-125	1.000
Magnesium	261,800	10,000	244,700 >LR	-171 NM	75-125	1.000
Manganese	13.05	100.0	114.6	102	75-125	1.000
Nickel	8.796	100.0	105.2	96	75-125	1.000
Potassium	812.9	10,000	10,550	97	75-125	1.000
Selenium	1.480	100.0	81.08	80	75-125	1.000
Silver	0.1904	100.0	96.16	96	75-125	1.000
Sodium	208,400	10,000	199,100 >LR	-93 NM	75-125	1.000
Thallium	2.901	100.0	99.38	96	75-125	1.000
Vanadium	0.9009	100.0	106.7	106	75-125	1.000
Zinc	2.767	100.0	85.15	82	75-125	1.000

NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1349MW02	Sampled:	03/10/06
MSS Lab ID:	185457-016	Received:	03/10/06
Matrix:	Filtrate	Prepared:	03/19/06
Units:	ug/L	Analyzed:	03/24/06
Batch#:	111436		

Type: MSD Lab ID: QC332059

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
Aluminum	100.0	102.3	85	75-125	2	20	1.000
Antimony	100.0	107.5	107	75-125	0	20	1.000
Arsenic	100.0	96.03	95	75-125	1	20	1.000
Barium	100.0	328.5	102	75-125	3	20	20.00
Beryllium	100.0	94.06	94	75-125	1	20	1.000
Cadmium	100.0	92.53	91	75-125	2	20	1.000
Calcium	10,000	86,450 >LR	69 NM	75-125	NC	20	1.000
Chromium	100.0	182.5	107	75-125	2	20	1.000
Cobalt	100.0	100.1	100	75-125	1	20	1.000
Copper	100.0	98.45	97	75-125	2	20	1.000
Iron	10,000	10,830	106	75-125	1	20	1.000
Lead	100.0	109.7	110	75-125	0	20	1.000
Magnesium	10,000	244,400 >LR	-174 NM	75-125	NC	20	1.000
Manganese	100.0	116.7	104	75-125	2	20	1.000
Nickel	100.0	107.0	98	75-125	2	20	1.000
Potassium	10,000	10,500	97	75-125	0	20	1.000
Selenium	100.0	81.74	80	75-125	1	20	1.000
Silver	100.0	97.35	97	75-125	1	20	1.000
Sodium	10,000	198,300 >LR	-101 NM	75-125	NC	20	1.000
Thallium	100.0	101.8	99	75-125	2	20	1.000
Vanadium	100.0	108.8	108	75-125	2	20	1.000
Zinc	100.0	85.60	83	75-125	1	20	1.000

NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065PZ6B	Sampled:	03/10/06
MSS Lab ID:	185457-027	Received:	03/10/06
Matrix:	Filtrate	Prepared:	03/23/06
Units:	ug/L	Analyzed:	03/23/06
Batch#:	111603		

Type: MS Lab ID: QC332726

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln Fac
Aluminum	5.175	100.0	99.69	95	75-125	1.000
Antimony	0.1322	100.0	100.5	100	75-125	1.000
Arsenic	1.247	100.0	96.91	96	75-125	1.000
Cadmium	<0.1409	100.0	91.40	91	75-125	1.000
Calcium	38,450	10,000	50,970	125	75-125	10.00
Chromium	40.49	100.0	144.4	104	75-125	1.000
Copper	0.8844	100.0	96.44	96	75-125	1.000
Iron	195.7	10,000	10,620	104	75-125	1.000
Lead	<0.2399	100.0	104.0	104	75-125	1.000
Magnesium	54,020	10,000	61,070	71 NM	75-125	10.00
Manganese	1.362	100.0	103.0	102	75-125	1.000
Nickel	8.001	100.0	106.0	98	75-125	1.000
Potassium	699.0	10,000	10,420	97	75-125	1.000
Sodium	68,110	10,000	72,370	43 NM	75-125	10.00
Vanadium	14.05	100.0	118.4	104	75-125	1.000
Zinc	7.873	100.0	92.36	84	75-125	1.000

Type: MSD Lab ID: QC332727

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
Aluminum	100.0	97.23	92	75-125	2	20	1.000
Antimony	100.0	100.2	100	75-125	0	20	1.000
Arsenic	100.0	96.39	95	75-125	1	20	1.000
Cadmium	100.0	90.24	90	75-125	1	20	1.000
Calcium	10,000	53,840	154 *	75-125	5	20	10.00
Chromium	100.0	143.5	103	75-125	1	20	1.000
Copper	100.0	96.62	96	75-125	0	20	1.000
Iron	10,000	10,760	106	75-125	1	20	1.000
Lead	100.0	104.7	105	75-125	1	20	1.000
Magnesium	10,000	64,220	102 NM	75-125	5	20	10.00
Manganese	100.0	103.3	102	75-125	0	20	1.000
Nickel	100.0	104.4	96	75-125	2	20	1.000
Potassium	10,000	10,440	97	75-125	0	20	1.000
Sodium	10,000	76,910	88 NM	75-125	6	20	10.00
Vanadium	100.0	117.2	103	75-125	1	20	1.000
Zinc	100.0	93.01	85	75-125	1	20	1.000

*= Value outside of QC limits; see narrative
NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	231GW10	Units:	ug/L
Type:	Serial Dilution	Batch#:	111276
MSS Lab ID:	185457-009	Sampled:	03/09/06
Lab ID:	QC331378	Received:	03/10/06
Matrix:	Filtrate	Analyzed:	03/23/06

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Diln Fac
Aluminum	ND	100.0	9.598 J	500.0		10	5.000
Arsenic	8.917	5.000	8.555 J	25.00		10	5.000
Cadmium	ND	1.000	ND	5.000		10	5.000
Calcium	58,100	5,000	51,560	25,000	11 *	10	50.00
Chromium	ND	10.00	0.6859 J	50.00		10	5.000
Copper	ND	1.000	ND	5.000		10	5.000
Iron	12,910	100.0	11,980	500.0	7	10	5.000
Lead	ND	3.000	ND	15.00		10	5.000
Magnesium	65,690	5,000	62,400	25,000	5	10	50.00
Manganese	1,062	100.0	996.2	500.0	6	10	50.00
Nickel	ND	20.00	1.853 J	100.0		10	5.000
Potassium	4,368	500.0	4,350	2,500	0	10	5.000
Sodium	119,300	5,000	110,800	25,000	7	10	50.00
Zinc	ND	20.00	ND	100.0		10	5.000

*= Value outside of QC limits; see narrative
J= Estimated value
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1349MW02	Units:	ug/L
Type:	Serial Dilution	Batch#:	111436
MSS Lab ID:	185457-016	Sampled:	03/10/06
Lab ID:	QC332060	Received:	03/10/06
Matrix:	Filtrate	Analyzed:	03/24/06

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Diln Fac
Aluminum	ND	100.0	125.3 J	500.0		10	5.000
Antimony	ND	1.000	1.155 J	5.000		10	5.000
Arsenic	ND	5.000	ND	25.00		10	5.000
Barium	226.3	200.0	195.4 J	1,000	14 *	10	100.0
Beryllium	ND	2.000	0.5201 J	10.00		10	5.000
Cadmium	1.115	1.000	1.393 J	5.000		10	5.000
Calcium	79,580	10,000	73,950	50,000	7	10	100.0
Chromium	75.08	10.00	71.49	50.00	5	10	5.000
Cobalt	ND	10.00	0.6860 J	50.00		10	5.000
Copper	1.188	1.000	2.353 J	5.000		10	5.000
Iron	233.4	100.0	526.4	500.0	126 *	10	5.000
Lead	ND	3.000	ND	15.00		10	5.000
Magnesium	261,800	10,000	257,600	50,000	2	10	100.0
Manganese	13.05	10.00	14.27 J	50.00	9	10	5.000
Nickel	ND	20.00	9.497 J	100.0	8	10	5.000
Potassium	812.9	500.0	1,020 J	2,500	25 *	10	5.000
Selenium	ND	5.000	3.684 J	25.00		10	5.000
Silver	ND	1.000	0.5542 J	5.000		10	5.000
Sodium	208,400	10,000	197,300	50,000	5	10	100.0
Thallium	ND	20.00	8.925 J	100.0		10	100.0
Vanadium	ND	10.00	1.228 J	50.00		10	5.000
Zinc	ND	20.00	3.247 J	100.0		10	5.000

*= Value outside of QC limits; see narrative
J= Estimated value
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065PZ6B	Units:	ug/L
Type:	Serial Dilution	Batch#:	111603
MSS Lab ID:	185457-027	Sampled:	03/10/06
Lab ID:	QC332728	Received:	03/10/06
Matrix:	Filtrate	Analyzed:	03/23/06

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Diln Fac
Aluminum	ND	100.0	40.73 J	500.0		10	5.000
Antimony	ND	1.000	ND	5.000		10	5.000
Arsenic	ND	5.000	ND	25.00		10	5.000
Cadmium	ND	1.000	ND	5.000		10	5.000
Calcium	38,450	5,000	38,280	25,000	0	10	50.00
Chromium	40.49	10.00	37.46 J	50.00	7	10	5.000
Copper	ND	1.000	ND	5.000		10	5.000
Iron	195.7	100.0	252.4 J	500.0		10	5.000
Lead	ND	3.000	ND	15.00		10	5.000
Magnesium	54,020	5,000	53,330	25,000	1	10	50.00
Manganese	ND	10.00	2.029 J	50.00		10	5.000
Nickel	ND	20.00	8.391 J	100.0		10	5.000
Potassium	699.0	500.0	805.7 J	2,500	15 *	10	5.000
Sodium	68,110	5,000	63,910	25,000	6	10	50.00
Vanadium	14.05	10.00	12.69 J	50.00	10	10	5.000
Zinc	ND	20.00	9.530 J	100.0		10	5.000

*= Value outside of QC limits; see narrative
J= Estimated value
ND= Not Detected
RL= Reporting Limit

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : PDS
Inst : MET05
Seqnum: 56118726036
File : c2310036
IDF : 1.0
Lab ID: QC331379
Matrix: Filtrate
Batch : 111276
Time : 23-MAR-2006 14:07
Cal : 56118726001
MSS : 185457-009
Units : ug/L

PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (100X), 05WS0207

Analyte	MSS Seqnum	Result	Spiked	PDS	%Rec	Limits	Flags
Aluminum	56118726025	3.736	100.0	95.23	91	75-125	
Antimony	56118726025	0.1934	100.0	101.4	101	75-125	
Arsenic	56118726025	8.917	100.0	106.0	97	75-125	
Barium	56118726025	153.0	100.0	258.2 >LR	105	75-125	>LR **b***
Beryllium	56118726025	ND	100.0	101.9	102	75-125	
Cadmium	56118726025	ND	100.0	91.19	91	75-125	
Chromium	56118726025	0.6640	100.0	104.9	104	75-125	
Cobalt	56118726025	0.5719	100.0	98.03	97	75-125	
Copper	56118726025	0.3913	100.0	95.21	95	75-125	
Iron	56118726025	12910	10000	23500 >LR	106	75-125	>LR **b***
Lead	56118726025	ND	100.0	104.1	104	75-125	
Molybdenum	56118726025	1.537	100.0	104.9	103	75-125	
Nickel	56118726025	1.872.	100.0	99.22	97	75-125	
Potassium	56118726025	4368	10000	14100	97	75-125	
Selenium	56118726025	0.4274	100.0	84.44	84	75-125	
Silver	56118726025	ND	100.0	94.38	94	75-125	
Thallium	56118726031	ND	100.0	98.36	98	75-125	
Vanadium	56118726025	0.8397	100.0	105.6	105	75-125	
Zinc	56118726025	1.237	100.0	85.92	85	75-125	

ISTD (ICALBLK c2310003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	775809	685790	-11.60
Scandium	409443	415851	1.56
Germanium	101712	84740	-16.69
Indium	559595	441409	-21.12
Bismuth	426621	331073	-22.40

MISSING READINGS: **CA MG MN NA**

>LR=overrange b=noncompliant

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET05
Seqnum: 56118726032
File : c2310032
IDF : 10.0
Lab ID: 185457-009
Matrix: Filtrate
Batch : 111276
Time : 23-MAR-2006 13:45
Cal : 56118726001
Units : ug/L

Type : PDS
Inst : MET05
Seqnum: 56118726039
File : c2310039
IDF : 10.0
Lab ID: QC331379
Matrix: Filtrate
Batch : 111276
Time : 23-MAR-2006 14:23
Cal : 56118726001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (1000X), 05WS0207

Analyte	MSS	Spiked	PDS	%Rec	Limits	Flags
Aluminum	2.341	10.00	11.86	95	75-125	
Antimony	ND	10.00	9.985	100	75-125	
Arsenic	1.013	10.00	11.28	103	75-125	
Barium	15.09	10.00	24.48	94	75-125	
Beryllium	ND	10.00	10.08	101	75-125	
Cadmium	ND	10.00	10.55	106	75-125	
Calcium	5810	1000	6962	115	75-125	:
Chromium	ND	10.00	10.11	101	75-125	
Cobalt	0.03853	10.00	9.745	97	75-125	
Copper	ND	10.00	10.13	101	75-125	
Iron	1231	1000	2238	101	75-125	
Lead	ND	10.00	9.602	96	75-125	
Magnesium	6569	1000	7327	76	75-125	:
Manganese	106.2	10.00	120.4	142	75-125	:
Molybdenum	0.1826	10.00	9.937	98	75-125	
Nickel	0.2435	10.00	10.27	100	75-125	
Potassium	458.5	1000	1463	100	75-125	
Selenium	ND	10.00	9.948	99	75-125	
Silver	ND	10.00	10.01	100	75-125	
Sodium	11930	1000	12610	68	75-125	:
Thallium	ND	10.00	9.410	94	75-125	
Vanadium	ND	10.00	9.815	98	75-125	
Zinc	ND	10.00	11.22	112	75-125	

ISTD (ICALBLK c2310003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	775809	775352	-0.06
Scandium	409443	432252	5.57
Germanium	101712	95733	-5.88
Indium	559595	517865	-7.46
Bismuth	426621	395136	-7.38

:=recovery not meaningful

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET05
Seqnum: 56118726070
File : c2310070
IDF : 1.0
Lab ID: 185457-027
Matrix: Filtrate
Batch : 111603
Time : 23-MAR-2006 17:22
Cal : 56118726001
Units : ug/L

Type : PDS
Inst : MET05
Seqnum: 56118726081
File : c2310081
IDF : 1.0
Lab ID: QC332729
Matrix: Filtrate
Batch : 111603
Time : 23-MAR-2006 18:23
Cal : 56118726001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (100X), 05WS0207

Analyte	MSS	Spiked	PDS	%Rec	Limits	Flags
Aluminum	5.175	100.0	92.16	87	75-125	
Antimony	0.1322	100.0	100.3	100	75-125	
Arsenic	1.247	100.0	95.84	95	75-125	
Barium	39.90	100.0	137.3	97	75-125	
Beryllium	ND	100.0	96.82	97	75-125	
Cadmium	ND	100.0	92.02	92	75-125	
Chromium	40.49	100.0	136.5	96	75-125	
Cobalt	0.1637	100.0	96.01	96	75-125	
Copper	0.8844	100.0	94.13	93	75-125	
Iron	195.7	10000	10430	102	75-125	
Lead	ND	100.0	102.9	103	75-125	
Manganese	1.362	100.0	99.71	98	75-125	
Molybdenum	0.1906	100.0	100.2	100	75-125	
Nickel	8.001	100.0	102.3	94	75-125	
Potassium	699.0	10000	10190	95	75-125	
Selenium	ND	100.0	83.89	84	75-125	
Silver	ND	100.0	95.16	95	75-125	
Thallium	0.9993	100.0	95.57	95	75-125	
Vanadium	14.05	100.0	112.8	99	75-125	
Zinc	7.873	100.0	119.3	111	75-125	

ISTD (ICALBLK c2310003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	775809	681525	-12.15
Scandium	409443	399486	-2.43
Germanium	101712	86059	-15.39
Indium	559595	455315	-18.63
Bismuth	426621	356872	-16.35

MISSING READINGS: **CA MG NA**

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET05
Seqnum: 56118726082
File : c2310082
IDF : 10.0
Lab ID: 185457-027
Matrix: Filtrate
Batch : 111603
Time : 23-MAR-2006 18:29
Cal : 56118726001
Units : ug/L

Type : PDS
Inst : MET05
Seqnum: 56118726086
File : c2310086
IDF : 10.0
Lab ID: QC332729
Matrix: Filtrate
Batch : 111603
Time : 23-MAR-2006 18:52
Cal : 56118726001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (1000X), 05WS0207

Analyte	MSS	Spiked	PDS	%Rec	Limits	Flags
Aluminum	2.668	10.00	11.36	87	75-125	
Antimony	0.1104	10.00	9.677	96	75-125	
Arsenic	ND	10.00	10.09	101	75-125	
Barium	3.978	10.00	12.89	89	75-125	
Beryllium	ND	10.00	10.23	102	75-125	
Cadmium	ND	10.00	9.886	99	75-125	
Calcium	3845	1000	5048	120	75-125	
Chromium	3.662	10.00	13.67	100	75-125	
Cobalt	ND	10.00	9.535	95	75-125	
Copper	ND	10.00	9.857	99	75-125	
Iron	13.68	1000	970.9	96	75-125	
Lead	ND	10.00	9.133	91	75-125	
Magnesium	5402	1000	5974	57	75-125	:
Manganese	0.1495	10.00	10.07	99	75-125	
Molybdenum	ND	10.00	9.548	95	75-125	
Nickel	0.8331	10.00	10.41	96	75-125	
Potassium	74.23	1000	1085	101	75-125	
Selenium	ND	10.00	9.862	99	75-125	
Silver	ND	10.00	9.637	96	75-125	
Sodium	6811	1000	7142	33	75-125	:
Thallium	0.7720	10.00	9.068	83	75-125	
Vanadium	1.232	10.00	11.02	98	75-125	
Zinc	1.015	10.00	11.90	109	75-125	

ISTD (ICALBLK c2310003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	775809	758630	-2.21
Scandium	409443	433279	5.82
Germanium	101712	95261	-6.34
Indium	559595	512946	-8.34
Bismuth	426621	390537	-8.46

:=recovery not meaningful

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : PDS
Inst : MET05
Seqnum: 56120449030
File : c2415030
IDF : 1.0
Lab ID: QC332061
Matrix: Filtrate
Batch : 111436
Time : 24-MAR-2006 18:10
Cal : 56120449001
MSS : 185457-016
Units : ug/L

PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (100X), 05WS0207

Analyte	MSS Seqnum	Result	Spiked	PDS	%Rec	Limits	Flags
Aluminum	56120449020	17.02	100.0	105.8	89	75-125	
Antimony	56120449020	0.6129	100.0	107.9	107	75-125	
Arsenic	56120449020	0.9884	100.0	96.25	95	75-125	
Beryllium	56120449020	0.1658	100.0	95.66	95	75-125	
Cadmium	56120449020	1.115	100.0	92.45	91	75-125	
Chromium	56120449020	75.08	100.0	186.2	111	75-125	
Cobalt	56120449020	0.2945	100.0	101.2	101	75-125	
Copper	56120449020	1.188	100.0	98.99	98	75-125	
Iron	56120449020	233.4	10000	10950	107	75-125	
Lead	56120449020	ND	100.0	111.7	112	75-125	
Manganese	56120449020	13.05	100.0	117.2	104	75-125	
Molybdenum	56120449020	0.6437	100.0	108.6	108	75-125	
Nickel	56120449020	8.796	100.0	107.9	99	75-125	
Potassium	56120449020	812.9	10000	10670	99	75-125	
Selenium	56120449020	1.480	100.0	81.86	80	75-125	
Silver	56120449020	0.1904	100.0	98.17	98	75-125	
Thallium	56120449027	0.1538	100.0	103.5	103	75-125	
Vanadium	56120449020	0.9009	100.0	109.4	108	75-125	
Zinc	56120449020	2.767	100.0	85.42	83	75-125	

ISTD (ICALBLK c2415003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	988200	821766	-16.84
Scandium	562292	471081	-16.22
Germanium	180440	136868	-24.15
Indium	1368410	982461	-28.20
Bismuth	1333700	847810	-36.43

MISSING READINGS: **BA CA MG NA**

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET05
Seqnum: 56120449022
File : c2415022
IDF : 20.0
Lab ID: 185457-016
Matrix: Filtrate
Batch : 111436
Time : 24-MAR-2006 17:26
Cal : 56120449001
Units : ug/L

Type : PDS
Inst : MET05
Seqnum: 56120449033
File : c2415033
IDF : 20.0
Lab ID: QC332061
Matrix: Filtrate
Batch : 111436
Time : 24-MAR-2006 18:26
Cal : 56120449001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (2000X), 05WS0207

Analyte	MSS	Spiked	PDS	%Rec	Limits	Flags
Aluminum	2.722	5.000	5.120	**48***	75-125	
Antimony	ND	5.000	5.375	108	75-125	
Arsenic	ND	5.000	5.400	108	75-125	
Barium	11.32	5.000	16.05	95	75-125	
Beryllium	ND	5.000	5.060	101	75-125	
Cadmium	ND	5.000	5.200	104	75-125	
Calcium	3979	500.0	4486	101	75-125	:
Chromium	3.563	5.000	8.415	97	75-125	
Cobalt	ND	5.000	4.832	97	75-125	
Copper	ND	5.000	5.075	102	75-125	
Iron	10.61	500.0	480.3	94	75-125	
Lead	ND	5.000	4.714	94	75-125	
Magnesium	13090	500.0	13640	109	75-125	:
Manganese	0.6510	5.000	5.490	97	75-125	
Molybdenum	ND	5.000	4.912	98	75-125	
Nickel	0.4432	5.000	5.500	101	75-125	
Potassium	42.55	500.0	582.0	108	75-125	
Selenium	ND	5.000	5.255	105	75-125	
Silver	ND	5.000	5.130	103	75-125	
Sodium	10420	500.0	11180	151	75-125	:
Thallium	0.1451	5.000	4.411	85	75-125	
Vanadium	ND	5.000	4.703	94	75-125	
Zinc	ND	5.000	5.775	116	75-125	

ISTD (ICALBLK c2415003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	988200	952804	-3.58
Scandium	562292	517857	-7.90
Germanium	180440	166433	-7.76
Indium	1368410	1203865	-12.02
Bismuth	1333700	1172058	-12.12

:=recovery not meaningful

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56118726001
Units : ug/L

Date : 23-MAR-2006 10:58
X Axis : R

Reviewer: ---
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	c2310004	56118726004	CS1	23-MAR-2006 11:03	S2889
L2	c2310005	56118726005	CS2	23-MAR-2006 11:09	S2890
L3	c2310006	56118726006	CS3	23-MAR-2006 11:15	S2891
L4	c2310007	56118726007	CS4	23-MAR-2006 11:20	S2892
L5	c2310008	56118726008	CS5	23-MAR-2006 11:26	S2886
L6	c2310009	56118726009	CS6	23-MAR-2006 11:31	S2887

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		2.3768	1.7674	0.8675	0.7689	0.7818	BLNK	-0.6476	1.28815		1.3125	1.000	0.995	
Antimony	0.3017	0.2212	0.1921	0.1733	0.1696	0.1681	BLNK	-0.1770	5.94332		0.2043	1.000	0.995	
Arsenic		0.5652	0.3925	0.3575	0.3532	0.3508	BLNK	-0.1648	2.84984		0.4038	1.000	0.995	
Barium	0.0907	0.0729	0.0750	0.0720	0.0737	0.0749	BLNK	-0.0332	13.3918		0.0765	1.000	0.995	
Beryllium	0.1226	0.1271	0.1213	0.1299	0.1292	0.1293	BLNK	-0.0044	7.73568		0.1266	1.000	0.995	
Cadmium	0.6020	0.4610	0.3636	0.3171	0.2944	0.2863	BLNK	-0.2913	3.47850		0.3874	1.000	0.995	
Calcium		0.0192	0.0173	0.0152	0.0161	0.0156	BLNK	-12.504	63.7673		0.0167	1.000	0.995	
Chromium		5.0828	3.4399	2.0291	1.8986	1.9066	BLNK	-0.8190	0.52752		2.8714	1.000	0.995	
Cobalt	2.6053	2.4273	2.3318	2.3280	2.3213	2.3551	BLNK	-0.0279	0.42592		2.3948	1.000	0.995	
Copper		1.0092	0.9703	0.7215	0.6744	0.6495	BLNK	-0.2072	1.52961		0.8050	1.000	0.995	
Iron		0.1009	0.0757	0.0542	0.0537	0.0522	BLNK	-45.959	19.1029		0.0673	1.000	0.995	
Lead	0.8464	0.7730	0.7721	0.7408	0.7896	0.7312	BLNK	-0.0385	1.34639		0.7755	0.999	0.995	
Magnesium		0.0894	0.0895	0.0951	0.0914	0.0885	BLNK	-0.5591	11.2264		0.0908	1.000	0.995	
Manganese	3.6797	3.0491	2.6525	2.4528	2.3928	2.4046	BLNK	-0.1042	0.41653		2.7719	1.000	0.995	
Molybdenum		0.6513	0.6581	0.6269	0.6335	0.6299	BLNK	-0.0139	1.58586		0.6400	1.000	0.995	
Nickel	0.8224	0.7095	0.6137	0.5450	0.5235	0.5146	BLNK	-0.1037	1.93746		0.6215	1.000	0.995	
Potassium		1.7295	1.1875	0.6887	0.6201	0.6146	BLNK	-84.195	1.63228		0.9681	1.000	0.995	
Selenium		0.0708	0.0474	0.0365	0.0330	0.0322	BLNK	-0.5249	30.9908		0.0440	1.000	0.995	
Silver	1.5286	1.4571	1.5131	1.4851	1.4528	1.4399	BLNK	-0.0129	0.69325		1.4794	1.000	0.995	
Sodium		1.0672	1.0642	0.8847	0.8775	0.8458	BLNK	-14.223	1.17447		0.9479	1.000	0.995	
Thallium		0.5612	0.5314	0.4926	0.5216	0.5260	BLNK	-0.0695	1.90529		0.5266	1.000	0.995	
Vanadium		4.0104	3.0659	2.2710	2.2371	2.3533	BLNK	-0.2733	0.42992		2.7875	0.999	0.995	
Zinc		1.1240	0.9098	0.4155	0.3546	0.3384	BLNK	-1.0894	2.94576		0.6284	0.999	0.995	

543

BLNK=Y=aX+[blank]

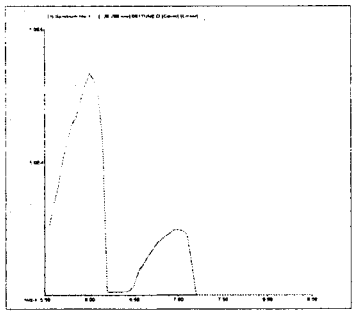
Instrument amount = a0 + response * a1 + response^2 * a2

6020 QC Tune Report

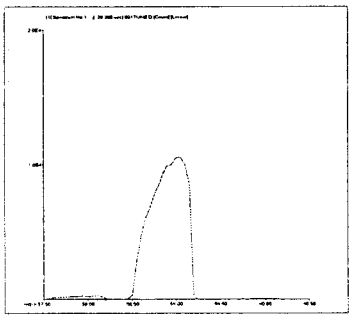
Data File: C:\ICPCHEM\1\DATA\06C2310b.B\001TUNE.D
Date Acquired: Mar 23 2006 10:46 am
Acq. Method: TN6020.M
Operator:
Sample Name: TUN,S2898
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

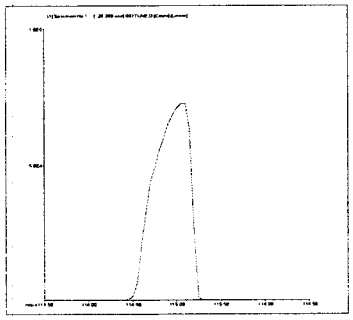
Element	Actual	Required	Flag
7 Li	1.84	5.00	
59 Co	1.97	5.00	
115 In	0.77	5.00	
205 Tl	1.23	5.00	



7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



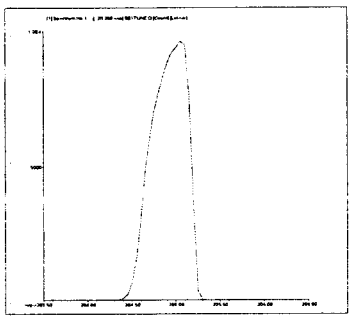
115 In

Mass Calib.

Actual:	115.10	
Required:	114.90 -	115.10
Flag:		

Peak Width

Actual:	0.60
Required:	0.90
Flag:	



205 Tl

Mass Calib.

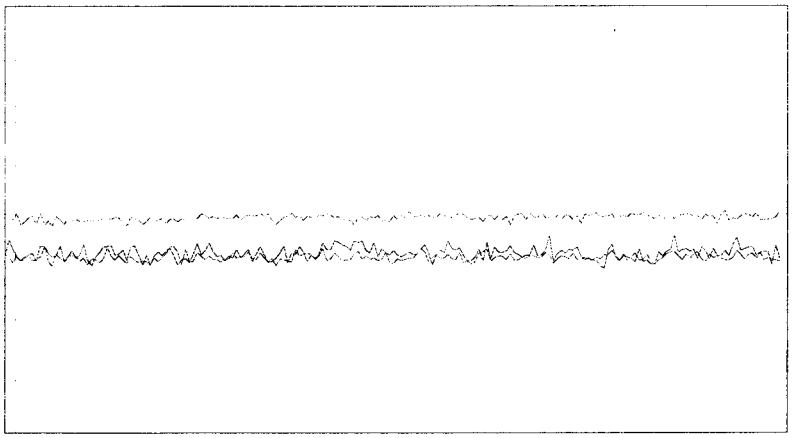
Actual:	205.05	
Required:	204.90 -	205.10
Flag:		

Peak Width

Actual:	0.60
Required:	0.90
Flag:	

Tune Report

Tune File : Autotune.u



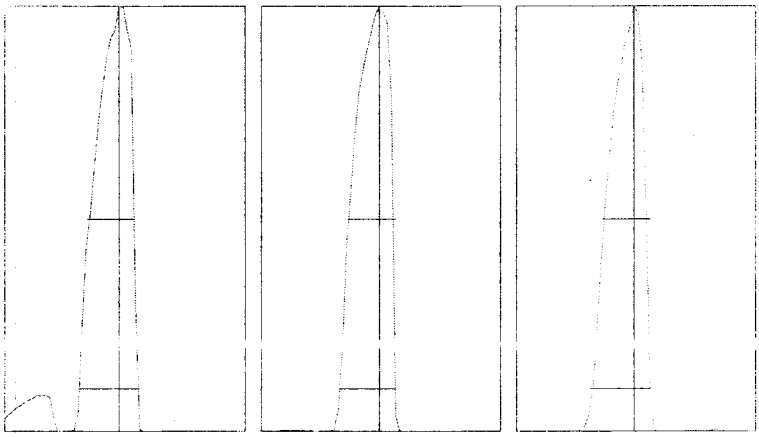
m/z:	7	89	205
Range:	50,000	50,000	20,000
Count:	20,224	19,893	10,347
Mean:	20908.9	20359.5	10030.7
RSD%:	3.62	2.15	1.45
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.51%
Doubly Charged:	70/140	1.22%

Background:

m/z:	7	89	205
Cps:	2.4	2.3	4.2



m/z:	7	89	205
Height:	20,599	20,218	10,176
Axis:	6.95	89.00	205.00
W-50%:	0.60	0.60	0.60
W-10%:	0.7500	0.700	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1210 W	Extract 1:	-156.2 V	AMU Gain:	129
RF Matching:	1.62 V	Extract 2:	-96 V	AMU Offset:	127
Smpl Depth:	7 mm	Einzel 1,3:	-66 V	Axis Gain:	0.9998
Torch-H:	0 mm	Einzel 2:	16 V	Axis Offset:	-0.07
Torch-V:	0.4 mm	Omega Bias:	-33 V	QP Bias:	1.5 V
Carrier Gas:	1.14 L/min	Omega (+):	1 V		
Makeup Gas:	0 L/min	Omega (-):	-6.7 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	7.1 V	Discriminator:	8.7 mV
PeriPump1:	0.1 rps	Plate Bias:	-12.5 V	Analog HV:	1760 V
PeriPump2:	--- rps			Pulse HV:	1200 V
S/C Temp:	2 degC				

Generated : Mar 23, 2006 09:43:51
Printed : Mar 23, 2006 09:43:57

P/A Factor Tuning Report

Acquired:Mar 23 2006 10:05 am

Mass[amu]	Element	P/A Factor
6	Li	0.070259
9	Be	0.078252
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.095239
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.099682
45	Sc	0.093990
51	V	0.098387
52	Cr	0.099989
53	Cr	Sensitivity too low
54	Fe	0.105710
55	Mn	0.102556
57	Fe	0.105607
59	Co	0.105783
60	Ni	Sensitivity too low
63	Cu	0.106943
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.103977
95	Mo	Sensitivity too low
98	Mo	0.102627
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.110732
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	0.110348
118	(In)	0.115538
121	Sb	Sensitivity too low
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.113734
166	Er	Sensitivity too low

```
    205        Tl    0.119834
    206      (Pb)  Sensitivity too low
    207      (Pb)  Sensitivity too low
    208        Pb    0.118658
    209        Bi  Sensitivity too low

===Detector Parameters===
  Discriminator: 8.7 mV
      Analog HV: 1760 V
       Pulse HV: 1200 V
```

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06C2310b.B\002BLNK.D\002BLNK.D#
Date Acquired: Mar 23 2006 10:52 am
Acq. Method: 60200111.M
Operator:
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update: Mar 23 2006 10:38 am
Sample Type: 6-Blank
Dilution Factor: 1.00

QC Elements

Element	Corr. Conc.		RSD(%)	Raw Conc.	High Limit	Flag
9 Be	0.00777	ppb	118.75	0.00777	1.00	
23 Na	-2.386	ppb	5.01	-2.386	1.00	
26 Mg	0.1838	ppb	19.59	0.1838	1.00	
27 Al	0.1939	ppb	9.34	0.1939	1.00	
39 K	42.72	ppb	2.66	42.72	1.00	
44 Ca	2.867	ppb	19.03	2.867	1.00	
51 V	0.1227	ppb	34.34	0.1227	1.00	
52 Cr	0.1667	ppb	16.59	0.1667	1.00	
55 Mn	-0.04276	ppb	21.01	-0.04276	1.00	
57 Fe	14.96	ppb	13.16	14.96	1.00	
59 Co	0.0116	ppb	15.21	0.0116	1.00	
60 Ni	0.01061	ppb	161.26	0.01061	1.00	
65 Cu	0.01167	ppb	52.36	0.01167	1.00	
66 Zn	0.08131	ppb	81.25	0.08131	1.00	
75 As	0.08125	ppb	80.22	0.08125	1.00	
82 Se	0.2224	ppb	98.34	0.2224	1.00	
95 Mo	-0.006659	ppb	45.25	-0.006659	1.00	
109 Ag	-0.00413	ppb	92.49	-0.00413	1.00	
111 Cd	0.06129	ppb	16.12	0.06129	1.00	
121 Sb	0.05379	ppb	11.84	0.05379	1.00	
137 Ba	-0.009113	ppb	193.90	-0.009113	1.00	
205 Tl	0.05455	ppb	12.21	0.05455	1.00	
208 Pb	0.0006095	ppb	908.61	0.0006095	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	784775.44	1.65	---	#VALUE!	80 - 120	
45 Sc	411721.09	1.04	---	#VALUE!	80 - 120	
72 Ge	102546.88	1.15	---	#VALUE!	80 - 120	
115 In	569150.44	1.69	---	#VALUE!	80 - 120	
209 Bi	429836.66	1.45	---	#VALUE!	80 - 120	

ISTD Ref File : ---

3 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Fail
ISTD: Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06C2310b.B\003CAL
Date Acquired: Mar 23 2006 10:58 am
Operator:
Sample Name: std-blk
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 23 2006 10:38 am
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	775808.69	A	18830.00	2.43
9	Be	8.89	P	5.09	57.29
23	Na	99146.66	P	468.10	0.47
26	Mg	407.78	P	16.78	4.12
27	Al	4117.78	P	201.20	4.89
39	K	422334.41	P	8797.00	2.08
44	Ca	1605.58	P	41.73	2.60
45	Sc	409443.31	P	7147.00	1.75
51	V	1293.59	P	215.50	16.66
52	Cr	3157.78	P	165.80	5.25
55	Mn	508.89	P	13.47	2.65
57	Fe	4894.44	P	131.80	2.69
59	Co	133.33	P	35.12	26.34
60	Ni	108.89	P	5.09	4.68
65	Cu	275.55	P	45.01	16.33
66	Zn	752.22	P	20.09	2.67
72	Ge	101712.20	P	604.10	0.59
75	As	117.30	P	119.20	101.62
82	Se	34.44	P	3.36	9.74
95	Mo	17.78	P	5.09	28.64
109	Ag	37.78	P	6.94	18.37
111	Cd	170.30	P	21.23	12.47
115	In	559595.19	P	2751.00	0.49
121	Sb	333.33	P	50.33	15.10
137	Ba	27.78	P	7.70	27.71
205	Tl	311.11	P	48.34	15.54
208	Pb	243.33	P	41.63	17.11
209	Bi	426621.09	P	7971.00	1.87

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2310b.B\004CALI.D\004CALI.D#
Date Acquired: Mar 23 2006 11:03 am
Operator:
Sample Name: CS1,S2889
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 23 2006 11:00 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	790411.63	A	2450.00	0.31
9 Be	484.44	P	25.46	5.26
23 Na	279423.31	P	1920.00	0.69
26 Mg	19601.11	P	311.30	1.59
27 Al	8845.55	P	206.20	2.33
39 K	565872.19	P	1683.00	0.30
44 Ca	4893.62	P	106.30	2.17
45 Sc	420268.91	P	7953.00	1.89
51 V	2807.74	P	213.70	7.61
52 Cr	4011.11	P	129.10	3.22
55 Mn	1828.89	P	128.30	7.02
57 Fe	7604.44	P	148.50	1.95
59 Co	1295.56	P	36.72	2.83
60 Ni	408.89	P	48.80	11.94
65 Cu	748.81	P	22.19	2.96
66 Zn	1167.68	P	79.33	6.79
72 Ge	99447.55	P	843.30	0.85
75 As	231.60	P	87.17	37.64
82 Se	68.89	P	17.84	25.90
95 Mo	348.89	P	33.55	9.62
109 Ag	760.00	P	52.39	6.89
111 Cd	299.17	P	31.46	10.52
115 In	548586.31	P	2908.00	0.53
121 Sb	827.78	P	63.63	7.69
137 Ba	248.89	P	30.06	12.08
205 Tl	1288.89	P	30.25	2.35
208 Pb	1746.67	P	150.40	8.61
209 Bi	412747.81	P	1899.00	0.46

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	790411.63	0.31	775808.75	101.9	80 - 120	

45	Sc	420268.88	1.89	409443.31	102.6	80 -	120
72	Ge	99447.56	0.85	101712.22	97.8	80 -	120
115	In	548586.31	0.53	559595.25	98.0	80 -	120
209	Bi	412747.78	0.46	426621.09	96.7	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2310b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2310b.B\005CALI.D\005CALI.D#
Date Acquired: Mar 23 2006 11:09 am
Operator:
Sample Name: CS2,S2890
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 23 2006 11:05 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	784977.63	A	12520.00	1.59
9 Be	997.78	P	41.14	4.12
23 Na	452814.41	P	2750.00	0.61
26 Mg	37917.78	P	340.40	0.90
27 Al	10084.44	P	120.00	1.19
39 K	733658.81	M	39700.00	5.41
44 Ca	8144.72	P	37.34	0.46
45 Sc	424301.09	P	3530.00	0.83
51 V	3988.47	P	281.90	7.07
52 Cr	5054.44	P	221.40	4.38
55 Mn	3032.22	P	174.60	5.76
57 Fe	10028.89	P	282.20	2.81
59 Co	2413.33	P	32.83	1.36
60 Ni	705.56	P	52.74	7.48
65 Cu	1003.17	P	63.86	6.37
66 Zn	1117.59	P	28.74	2.57
72 Ge	99432.45	P	600.40	0.60
75 As	562.45	P	127.60	22.69
82 Se	70.44	P	7.37	10.47
95 Mo	647.78	P	37.91	5.85
109 Ag	1448.89	P	39.77	2.74
111 Cd	458.29	P	30.30	6.61
115 In	545476.00	P	3163.00	0.58
121 Sb	1206.67	P	90.62	7.51
137 Ba	397.78	P	57.96	14.57
205 Tl	2341.11	P	44.01	1.88
208 Pb	3224.44	P	119.10	3.69
209 Bi	417193.31	P	3526.00	0.85

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	784977.56	1.59	775808.75	101.2	80 - 120	

45	Sc	424301.09	0.83	409443.31	103.6	80 - 120
72	Ge	99432.45	0.60	101712.22	97.8	80 - 120
115	In	545476.00	0.58	559595.25	97.5	80 - 120
209	Bi	417193.31	0.85	426621.09	97.8	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2310b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2310b.B\006CALI.D\006CALI.D#
Date Acquired: Mar 23 2006 11:15 am
Operator:
Sample Name: CS3,S2891
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 23 2006 11:11 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	791122.69	A	29160.00	3.69
9 Be	1917.78	P	51.68	2.69
23 Na	883735.31	A	11630.00	1.32
26 Mg	74280.00	P	841.10	1.13
27 Al	14677.78	P	211.20	1.44
39 K	986351.13	A	19300.00	1.96
44 Ca	14378.92	P	163.40	1.14
45 Sc	415325.50	P	9409.00	2.27
51 V	6298.55	P	198.40	3.15
52 Cr	7065.56	P	226.30	3.20
55 Mn	5450.00	P	134.50	2.47
57 Fe	15552.22	P	74.11	0.48
59 Co	4790.00	P	61.10	1.28
60 Ni	1260.00	P	76.88	6.10
65 Cu	1993.02	P	21.86	1.10
66 Zn	1868.52	P	37.16	1.99
72 Ge	102730.90	P	1618.00	1.58
75 As	805.56	P	77.69	9.64
82 Se	97.33	P	5.29	5.44
95 Mo	1352.22	P	27.76	2.05
109 Ag	3108.89	P	91.79	2.95
111 Cd	747.54	P	89.07	11.92
115 In	572599.00	P	17240.00	3.01
121 Sb	2201.11	P	144.30	6.56
137 Ba	857.78	P	13.88	1.62
205 Tl	4635.56	P	207.10	4.47
208 Pb	6735.56	P	309.60	4.60
209 Bi	436081.09	P	7176.00	1.65

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	791122.75	3.69	775808.75	102.0	80 - 120	

45	Sc	415325.53	2.27	409443.31	101.4	80 -	120
72	Ge	102730.88	1.58	101712.22	101.0	80 -	120
115	In	572599.00	3.01	559595.25	102.3	80 -	120
209	Bi	436081.09	1.65	426621.09	102.2	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2310b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2310b.B\007CALI.D\007CALI.D#
Date Acquired: Mar 23 2006 11:20 am
Operator:
Sample Name: CS4,S2892
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 23 2006 11:16 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	784525.00	A	8223.00	1.05
9 Be	20371.11	P	400.20	1.96
23 Na	7442363.00	A	77160.00	1.04
26 Mg	800099.50	A	8280.00	1.03
27 Al	72990.00	P	477.60	0.65
39 K	5793923.00	A	12380.00	0.21
44 Ca	127640.20	P	2316.00	1.81
45 Sc	420837.81	P	10510.00	2.50
51 V	45494.55	P	1180.00	2.59
52 Cr	40650.00	P	753.50	1.85
55 Mn	49140.00	P	1013.00	2.06
57 Fe	108534.40	P	1553.00	1.43
59 Co	46638.89	P	447.10	0.96
60 Ni	10917.78	P	227.50	2.08
65 Cu	14453.37	P	188.00	1.30
66 Zn	8324.89	P	176.60	2.12
72 Ge	100166.40	P	302.10	0.30
75 As	7161.56	P	54.26	0.76
82 Se	731.33	P	39.11	5.35
95 Mo	12558.89	P	68.50	0.55
109 Ag	29750.00	P	685.60	2.30
111 Cd	6352.61	P	78.40	1.23
115 In	545824.50	P	945.70	0.17
121 Sb	18916.67	P	190.80	1.01
137 Ba	7855.56	P	180.20	2.29
205 Tl	41273.33	P	722.20	1.75
208 Pb	62055.55	P	904.90	1.46
209 Bi	418984.41	P	8427.00	2.01

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	784525.00	1.05	775808.75	101.1	80 - 120	

45	Sc	420837.78	2.50	409443.31	102.8	80 - 120
72	Ge	100166.45	0.30	101712.22	98.5	80 - 120
115	In	545824.44	0.17	559595.25	97.5	80 - 120
209	Bi	418984.44	2.01	426621.09	98.2	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2310b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2310b.B\008CALI.D\008CALI.D#
Date Acquired: Mar 23 2006 11:26 am
Operator:
Sample Name: CS5,S2886
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 23 2006 11:22 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	787994.88	A	13350.00	1.69
9	Be	203587.80	P	5450.00	2.68
23	Na	73536760.00	A	859700.00	1.17
26	Mg	7657377.00	A	69310.00	0.91
27	Al	644129.81	M	19870.00	3.08
39	K	51964352.00	A	367700.00	0.71
44	Ca	1350326.00	A	23290.00	1.72
45	Sc	419074.41	P	8109.00	1.94
51	V	449905.31	P	4768.00	1.06
52	Cr	381837.81	P	396.20	0.10
55	Mn	481236.59	P	921.00	0.19
57	Fe	1080371.00	A	7307.00	0.68
59	Co	466860.00	P	2142.00	0.46
60	Ni	105283.30	P	423.90	0.40
65	Cu	135636.09	P	198.30	0.15
66	Zn	71307.26	P	445.60	0.62
72	Ge	100558.90	P	319.80	0.32
75	As	71033.59	P	614.40	0.86
82	Se	6635.33	P	94.84	1.43
95	Mo	127420.00	P	2057.00	1.61
109	Ag	292198.91	P	4463.00	1.53
111	Cd	59212.68	P	1294.00	2.19
115	In	531404.88	P	10310.00	1.94
121	Sb	180223.30	P	4836.00	2.68
137	Ba	78318.88	P	1586.00	2.03
205	Tl	429591.09	P	12000.00	2.79
208	Pb	650477.69	P	26330.00	4.05
209	Bi	411804.41	P	9923.00	2.41

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	787994.94	1.69	775808.75	101.6	80 - 120	

45	Sc	419074.44	1.94	409443.31	102.4	80 -	120
72	Ge	100558.88	0.32	101712.22	98.9	80 -	120
115	In	531404.94	1.94	559595.25	95.0	80 -	120
209	Bi	411804.44	2.41	426621.09	96.5	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2310b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2310b.B\009CALI.D\009CALI.D#
Date Acquired: Mar 23 2006 11:31 am
Operator:
Sample Name: CS6,S2887
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 23 2006 11:27 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	777506.50	A	15090.00	1.94
9	Be	402048.91	P	5075.00	1.26
23	Na	144272000.00	A	2933000.00	2.03
26	Mg	15093900.00	A	218600.00	1.45
27	Al	1333617.00	A	6757.00	0.51
39	K	104837500.00	A	1040000.00	0.99
44	Ca	2659593.00	A	18350.00	0.69
45	Sc	426454.41	P	1604.00	0.38
51	V	933425.69	A	4725.00	0.51
52	Cr	756251.00	M	4560.00	0.60
55	Mn	953768.31	A	10860.00	1.14
57	Fe	2069988.00	A	17680.00	0.85
59	Co	934132.63	A	8685.00	0.93
60	Ni	204131.09	P	3087.00	1.51
65	Cu	257614.09	P	3111.00	1.21
66	Zn	134214.50	P	1485.00	1.11
72	Ge	99161.11	P	224.10	0.23
75	As	139126.09	P	1277.00	0.92
82	Se	12774.89	P	49.98	0.39
95	Mo	249847.80	P	1701.00	0.68
109	Ag	571132.19	P	1338.00	0.23
111	Cd	113568.00	P	261.80	0.23
115	In	508989.41	P	6102.00	1.20
121	Sb	342302.19	P	1735.00	0.51
137	Ba	152564.41	P	538.60	0.35
205	Tl	818537.69	P	587.60	0.07
208	Pb	1137714.00	P	9063.00	0.80
209	Bi	389114.41	P	7860.00	2.02

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	777506.56	1.94	775808.75	100.2	80 - 120	

45	Sc	426454.44	0.38	409443.31	104.2	80 -	120
72	Ge	99161.12	0.23	101712.22	97.5	80 -	120
115	In	508989.41	1.20	559595.25	91.0	80 -	120
209	Bi	389114.44	2.02	426621.09	91.2	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2310b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Summary

Calibration : C:\ICPCHEM\1\CALIB\60200111.C
Last Calib: Mar 23, 2006 11:33
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\06c2310b.b\003calb.d\	003calb.d#	Mar 23 2006 10:58 am
2	...hem\1\data\06c2310b.b\004cali.d\	004cali.d#	Mar 23 2006 11:03 am
3	...hem\1\data\06c2310b.b\005cali.d\	005cali.d#	Mar 23 2006 11:09 am
4	...hem\1\data\06c2310b.b\006cali.d\	006cali.d#	Mar 23 2006 11:15 am
5	...hem\1\data\06c2310b.b\007cali.d\	007cali.d#	Mar 23 2006 11:20 am
6	...hem\1\data\06c2310b.b\008cali.d\	008cali.d#	Mar 23 2006 11:26 am
7	...hem\1\data\06c2310b.b\009cali.d\	009cali.d#	Mar 23 2006 11:31 am
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	Excluded	---	ppb
Be	9	6	Y = 1.293E-1*X +5.752E-4(blank)	---	ppb
Na	23	45	Y = 8.514E-1*X +1.211E+1(blank)	---	ppb
Mg	25	45	Excluded	---	ppb
Mg	26	45	Y = 8.908E-2*X +4.980E-2(blank)	---	ppb
Al	27	45	Y = 7.763E-1*X +5.027E-1(blank)	---	ppb
K	39	45	Y = 6.126E-1*X +5.158E+1(blank)	---	ppb
Ca	43	45	Excluded	---	ppb
Ca	44	45	Y = 1.568E-2*X +1.961E-1(blank)	---	ppb
Sc	45	---	Excluded	---	ppb
V	51	72	Y = 2.326E+0*X +6.357E-1(blank)	---	ppb
Cr	52	72	Y = 1.896E+0*X +1.552E+0(blank)	---	ppb
Cr	53	72	Excluded	---	ppb
Fe	54	72	Excluded	---	ppb
Mn	55	72	Y = 2.401E+0*X +2.502E-1(blank)	---	ppb
Fe	57	72	Y = 5.235E-2*X +2.406E+0(blank)	---	ppb
Co	59	72	Y = 2.348E+0*X +6.555E-2(blank)	---	ppb
Ni	60	72	Y = 5.161E-1*X +5.354E-2(blank)	---	ppb
Cu	63	72	Excluded	---	ppb
Cu	65	72	Y = 6.538E-1*X +1.355E-1(blank)	---	ppb
Zn	66	72	Y = 3.395E-1*X +3.698E-1(blank)	---	ppb
Ge	72	---	Excluded	---	ppb
As	75	72	Y = 3.509E-1*X +5.782E-2(blank)	---	ppb
(As)	77	72	Excluded	---	ppb
Se	82	72	Y = 3.227E-2*X +1.694E-2(blank)	---	ppb
(As)	83	72	Excluded	---	ppb
(Ca)	88	72	Excluded	---	ppb
Y	89	72	Excluded	---	ppb
Mo	95	72	Y = 6.306E-1*X +8.737E-3(blank)	---	ppb
Mo	98	72	Excluded	---	ppb
(Mo)	99	72	Excluded	---	ppb
(Cd)	106	72	Excluded	---	ppb
(Cd)	108	72	Excluded	---	ppb
Ag	109	72	Y = 1.442E+0*X +1.858E-2(blank)	---	ppb
Cd	111	72	Y = 2.875E-1*X +8.375E-2(blank)	---	ppb
Cd	114	72	Excluded	---	ppb
In	115	---	Excluded	---	ppb
(In)	118	---	Excluded	---	ppb
Sb	121	115	Y = 1.683E-1*X +2.978E-2(blank)	---	ppb
Ba	135	115	Excluded	---	ppb
Ba	137	115	Y = 7.467E-2*X +2.480E-3(blank)	---	ppb
Tb	159	---	Excluded	---	ppb
Er	166	115	Excluded	---	ppb
Tl	205	209	Y = 5.249E-1*X +3.647E-2(blank)	---	ppb
(Pb)	206	209	Excluded	---	ppb
(Pb)	207	209	Excluded	---	ppb
Pb	208	209	Y = 7.427E-1*X +2.857E-2(blank)	---	ppb
Bi	209	---	Excluded	---	ppb
Th	232	209	--------	---	ppb
U	238	209	--------	---	ppb

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726012 File : c2310012 Time : 23-MAR-2006 11:53
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2895, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	1.3125	0.7182	100.0	91.86	ug/L	-8	10	
Antimony	0.2043	0.1621	100.0	96.15	ug/L	-4	10	
Arsenic	0.4038	0.3444	100.0	97.98	ug/L	-2	10	
Barium	0.0765	0.0704	100.0	94.25	ug/L	-6	10	
Beryllium	0.1266	0.1278	100.0	98.86	ug/L	-1	10	
Cadmium	0.3874	0.2821	100.0	97.82	ug/L	-2	10	
Calcium	0.0167	0.0155	10000	9885	ug/L	-1	10	
Chromium	2.8714	1.8459	100.0	96.56	ug/L	-3	10	
Cobalt	2.3948	2.2365	100.0	95.23	ug/L	-5	10	
Copper	0.8050	0.6395	100.0	97.61	ug/L	-2	10	
Iron	0.0673	0.0517	10000	9822	ug/L	-2	10	
Lead	0.7755	0.7656	100.0	103.0	ug/L	3	10	
Magnesium	0.0908	0.0853	10000	9572	ug/L	-4	10	
Manganese	2.7719	2.3018	100.0	95.77	ug/L	-4	10	
Molybdenum	0.6400	0.6117	100.0	97.00	ug/L	-3	10	
Nickel	0.6215	0.5043	100.0	97.60	ug/L	-2	10	
Potassium	0.9681	0.6001	10000	9712	ug/L	-3	10	
Selenium	0.0440	0.0325	100.0	100.1	ug/L	0	10	
Silver	1.4794	1.4010	100.0	97.11	ug/L	-3	10	
Sodium	0.9479	0.8118	10000	9520	ug/L	-5	10	
Thallium	0.5266	0.5047	100.0	96.08	ug/L	-4	10	
Vanadium	2.7875	2.3001	100.0	98.61	ug/L	-1	10	
Zinc	0.6284	0.3394	100.0	98.88	ug/L	-1	10	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	791485	2.02
Scandium	409443	439027	7.23
Germanium	101712	99380	-2.29
Indium	559595	522662	-6.60
Bismuth	426621	395654	-7.26

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726028 File : c2310028 Time : 23-MAR-2006 13:22
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3125	0.8139	150.0	156.6	ug/L	4	10	
Antimony	0.2043	0.1629	150.0	145.0	ug/L	-3	10	
Arsenic	0.4038	0.3485	150.0	148.8	ug/L	-1	10	
Barium	0.0765	0.0741	150.0	148.8	ug/L	-1	10	
Beryllium	0.1266	0.1300	150.0	150.8	ug/L	1	10	
Cadmium	0.3874	0.2884	150.0	150.2	ug/L	0	10	
Calcium	0.0167	0.0158	15000	15090	ug/L	1	10	
Chromium	2.8714	1.8621	150.0	146.5	ug/L	-2	10	
Cobalt	2.3948	2.3142	150.0	147.8	ug/L	-1	10	
Copper	0.8050	0.6512	150.0	149.2	ug/L	-1	10	
Iron	0.0673	0.0535	15000	15280	ug/L	2	10	
Lead	0.7755	0.7709	150.0	155.6	ug/L	4	10	
Magnesium	0.0908	0.0910	15000	15320	ug/L	2	10	
Manganese	2.7719	2.4151	150.0	150.8	ug/L	1	10	
Molybdenum	0.6400	0.6279	150.0	149.4	ug/L	0	10	
Nickel	0.6215	0.5182	150.0	150.5	ug/L	0	10	
Potassium	0.9681	0.6304	15000	15350	ug/L	2	10	
Selenium	0.0440	0.0334	150.0	154.8	ug/L	3	10	
Silver	1.4794	1.4166	150.0	147.3	ug/L	-2	10	
Sodium	0.9479	0.8757	15000	15410	ug/L	3	10	
Thallium	0.5266	0.5391	150.0	154.0	ug/L	3	10	
Vanadium	2.7875	2.2916	150.0	147.5	ug/L	-2	10	
Zinc	0.6284	0.3496	150.0	153.4	ug/L	2	10	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	774406	-0.18
Scandium	409443	420713	2.75
Germanium	101712	101084	-0.62
Indium	559595	532687	-4.81
Bismuth	426621	405759	-4.89

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726042 File : c2310042 Time : 23-MAR-2006 14:40
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3125	0.7977	150.0	153.5	ug/L	2	10	
Antimony	0.2043	0.1616	150.0	143.9	ug/L	-4	10	
Arsenic	0.4038	0.3450	150.0	147.3	ug/L	-2	10	
Barium	0.0765	0.0724	150.0	145.4	ug/L	-3	10	
Beryllium	0.1266	0.1317	150.0	152.9	ug/L	2	10	
Cadmium	0.3874	0.2888	150.0	150.4	ug/L	0	10	
Calcium	0.0167	0.0156	15000	14880	ug/L	-1	10	
Chromium	2.8714	1.9472	150.0	153.3	ug/L	2	10	
Cobalt	2.3948	2.2970	150.0	146.7	ug/L	-2	10	
Copper	0.8050	0.6440	150.0	147.5	ug/L	-2	10	
Iron	0.0673	0.0535	15000	15270	ug/L	2	10	
Lead	0.7755	0.7524	150.0	151.9	ug/L	1	10	
Magnesium	0.0908	0.0896	15000	15080	ug/L	1	10	
Manganese	2.7719	2.3966	150.0	149.6	ug/L	0	10	
Molybdenum	0.6400	0.6330	150.0	150.6	ug/L	0	10	
Nickel	0.6215	0.5185	150.0	150.6	ug/L	0	10	
Potassium	0.9681	0.6291	15000	15320	ug/L	2	10	
Selenium	0.0440	0.0333	150.0	154.4	ug/L	3	10	
Silver	1.4794	1.4265	150.0	148.3	ug/L	-1	10	
Sodium	0.9479	0.8417	15000	14810	ug/L	-1	10	
Thallium	0.5266	0.5189	150.0	148.2	ug/L	-1	10	
Vanadium	2.7875	2.3334	150.0	150.2	ug/L	0	10	
Zinc	0.6284	0.3389	150.0	148.7	ug/L	-1	10	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	759231	-2.14
Scandium	409443	425888	4.02
Germanium	101712	95412	-6.19
Indium	559595	501920	-10.31
Bismuth	426621	387752	-9.11

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726053 File : c2310053 Time : 23-MAR-2006 15:42
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3125	0.7826	150.0	150.6	ug/L	0	10	
Antimony	0.2043	0.1610	150.0	143.3	ug/L	-4	10	
Arsenic	0.4038	0.3430	150.0	146.5	ug/L	-2	10	
Barium	0.0765	0.0729	150.0	146.4	ug/L	-2	10	
Beryllium	0.1266	0.1311	150.0	152.1	ug/L	1	10	
Cadmium	0.3874	0.2859	150.0	148.9	ug/L	-1	10	
Calcium	0.0167	0.0156	15000	14910	ug/L	-1	10	
Chromium	2.8714	1.8961	150.0	149.2	ug/L	-1	10	
Cobalt	2.3948	2.2878	150.0	146.1	ug/L	-3	10	
Copper	0.8050	0.6418	150.0	147.0	ug/L	-2	10	
Iron	0.0673	0.0534	15000	15260	ug/L	2	10	
Lead	0.7755	0.7603	150.0	153.5	ug/L	2	10	
Magnesium	0.0908	0.0898	15000	15130	ug/L	1	10	
Manganese	2.7719	2.3961	150.0	149.6	ug/L	0	10	
Molybdenum	0.6400	0.6272	150.0	149.2	ug/L	-1	10	
Nickel	0.6215	0.5124	150.0	148.8	ug/L	-1	10	
Potassium	0.9681	0.6107	15000	14870	ug/L	-1	10	
Selenium	0.0440	0.0331	150.0	153.4	ug/L	2	10	
Silver	1.4794	1.4218	150.0	147.8	ug/L	-1	10	
Sodium	0.9479	0.8392	15000	14770	ug/L	-2	10	
Thallium	0.5266	0.5260	150.0	150.3	ug/L	0	10	
Vanadium	2.7875	2.3031	150.0	148.2	ug/L	-1	10	
Zinc	0.6284	0.3433	150.0	150.6	ug/L	0	10	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	786400	1.37
Scandium	409443	431543	5.40
Germanium	101712	97476	-4.16
Indium	559595	511501	-8.59
Bismuth	426621	396000	-7.18

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726063 File : c2310063 Time : 23-MAR-2006 16:41
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3125	0.8347	150.0	160.6	ug/L	7	10	
Antimony	0.2043	0.1616	150.0	143.9	ug/L	-4	10	
Arsenic	0.4038	0.3411	150.0	145.7	ug/L	-3	10	
Barium	0.0765	0.0737	150.0	148.0	ug/L	-1	10	
Beryllium	0.1266	0.1261	150.0	146.3	ug/L	-2	10	
Cadmium	0.3874	0.2948	150.0	153.5	ug/L	2	10	
Calcium	0.0167	0.0156	15000	14930	ug/L	0	10	
Chromium	2.8714	1.8395	150.0	144.7	ug/L	-4	10	
Cobalt	2.3948	2.3110	150.0	147.6	ug/L	-2	10	
Copper	0.8050	0.6516	150.0	149.3	ug/L	0	10	
Iron	0.0673	0.0539	15000	15400	ug/L	3	10	
Lead	0.7755	0.7638	150.0	154.2	ug/L	3	10	
Magnesium	0.0908	0.0938	15000	15800	ug/L	5	10	
Manganese	2.7719	2.4116	150.0	150.6	ug/L	0	10	
Molybdenum	0.6400	0.6230	150.0	148.2	ug/L	-1	10	
Nickel	0.6215	0.5176	150.0	150.3	ug/L	0	10	
Potassium	0.9681	0.6184	15000	15060	ug/L	0	10	
Selenium	0.0440	0.0332	150.0	153.9	ug/L	3	10	
Silver	1.4794	1.4339	150.0	149.1	ug/L	-1	10	
Sodium	0.9479	0.8965	15000	15780	ug/L	5	10	
Thallium	0.5266	0.5347	150.0	152.7	ug/L	2	10	
Vanadium	2.7875	2.1620	150.0	139.2	ug/L	-7	10	
Zinc	0.6284	0.3513	150.0	154.2	ug/L	3	10	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	723956	-6.68
Scandium	409443	381597	-6.80
Germanium	101712	97170	-4.47
Indium	559595	529399	-5.40
Bismuth	426621	421860	-1.12

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726078 File : c2310078 Time : 23-MAR-2006 18:07
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3125	0.7943	150.0	152.8	ug/L	2	10	
Antimony	0.2043	0.1591	150.0	141.7	ug/L	-6	10	
Arsenic	0.4038	0.3447	150.0	147.2	ug/L	-2	10	
Barium	0.0765	0.0714	150.0	143.4	ug/L	-4	10	
Beryllium	0.1266	0.1317	150.0	152.9	ug/L	2	10	
Cadmium	0.3874	0.2857	150.0	148.8	ug/L	-1	10	
Calcium	0.0167	0.0158	15000	15110	ug/L	1	10	
Chromium	2.8714	1.9203	150.0	151.1	ug/L	1	10	
Cobalt	2.3948	2.3030	150.0	147.1	ug/L	-2	10	
Copper	0.8050	0.6456	150.0	147.9	ug/L	-1	10	
Iron	0.0673	0.0538	15000	15370	ug/L	2	10	
Lead	0.7755	0.7371	150.0	148.8	ug/L	-1	10	
Magnesium	0.0908	0.0884	15000	14880	ug/L	-1	10	
Manganese	2.7719	2.4002	150.0	149.9	ug/L	0	10	
Molybdenum	0.6400	0.6217	150.0	147.9	ug/L	-1	10	
Nickel	0.6215	0.5150	150.0	149.6	ug/L	0	10	
Potassium	0.9681	0.6305	15000	15350	ug/L	2	10	
Selenium	0.0440	0.0331	150.0	153.2	ug/L	2	10	
Silver	1.4794	1.4097	150.0	146.6	ug/L	-2	10	
Sodium	0.9479	0.8294	15000	14600	ug/L	-3	10	
Thallium	0.5266	0.5070	150.0	144.8	ug/L	-3	10	
Vanadium	2.7875	2.4023	150.0	154.6	ug/L	3	10	
Zinc	0.6284	0.3379	150.0	148.2	ug/L	-1	10	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	751692	-3.11
Scandium	409443	430758	5.21
Germanium	101712	95084	-6.52
Indium	559595	500280	-10.60
Bismuth	426621	391952	-8.13

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726092 File : c2310092 Time : 23-MAR-2006 19:25
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3125	0.7986	150.0	153.7	ug/L	2	10	
Antimony	0.2043	0.1582	150.0	140.8	ug/L	-6	10	
Arsenic	0.4038	0.3374	150.0	144.1	ug/L	-4	10	
Barium	0.0765	0.0701	150.0	140.8	ug/L	-6	10	
Beryllium	0.1266	0.1262	150.0	146.4	ug/L	-2	10	
Cadmium	0.3874	0.2822	150.0	147.0	ug/L	-2	10	
Calcium	0.0167	0.0154	15000	14750	ug/L	-2	10	
Chromium	2.8714	1.8529	150.0	145.8	ug/L	-3	10	
Cobalt	2.3948	2.2565	150.0	144.1	ug/L	-4	10	
Copper	0.8050	0.6296	150.0	144.2	ug/L	-4	10	
Iron	0.0673	0.0526	15000	15030	ug/L	0	10	
Lead	0.7755	0.7282	150.0	147.0	ug/L	-2	10	
Magnesium	0.0908	0.0889	15000	14970	ug/L	0	10	
Manganese	2.7719	2.3668	150.0	147.8	ug/L	-1	10	
Molybdenum	0.6400	0.6090	150.0	144.9	ug/L	-3	10	
Nickel	0.6215	0.5065	150.0	147.1	ug/L	-2	10	
Potassium	0.9681	0.6100	15000	14850	ug/L	-1	10	
Selenium	0.0440	0.0326	150.0	150.8	ug/L	1	10	
Silver	1.4794	1.3964	150.0	145.2	ug/L	-3	10	
Sodium	0.9479	0.8290	15000	14590	ug/L	-3	10	
Thallium	0.5266	0.5071	150.0	144.9	ug/L	-3	10	
Vanadium	2.7875	2.3264	150.0	149.8	ug/L	0	10	
Zinc	0.6284	0.3369	150.0	147.8	ug/L	-1	10	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	763806	-1.55
Scandium	409443	417218	1.90
Germanium	101712	97334	-4.30
Indium	559595	519938	-7.09
Bismuth	426621	405930	-4.85

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726106 File : c2310106 Time : 23-MAR-2006 20:43
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3125	0.7804	150.0	150.1	ug/L	0	10	
Antimony	0.2043	0.1606	150.0	143.0	ug/L	-5	10	
Arsenic	0.4038	0.3392	150.0	144.8	ug/L	-3	10	
Barium	0.0765	0.0713	150.0	143.2	ug/L	-5	10	
Beryllium	0.1266	0.1293	150.0	150.0	ug/L	0	10	
Cadmium	0.3874	0.2812	150.0	146.5	ug/L	-2	10	
Calcium	0.0167	0.0156	15000	14880	ug/L	-1	10	
Chromium	2.8714	1.8539	150.0	145.9	ug/L	-3	10	
Cobalt	2.3948	2.2471	150.0	143.5	ug/L	-4	10	
Copper	0.8050	0.6303	150.0	144.4	ug/L	-4	10	
Iron	0.0673	0.0529	15000	15100	ug/L	1	10	
Lead	0.7755	0.7277	150.0	146.9	ug/L	-2	10	
Magnesium	0.0908	0.0878	15000	14790	ug/L	-1	10	
Manganese	2.7719	2.3561	150.0	147.1	ug/L	-2	10	
Molybdenum	0.6400	0.6077	150.0	144.5	ug/L	-4	10	
Nickel	0.6215	0.5060	150.0	147.0	ug/L	-2	10	
Potassium	0.9681	0.6131	15000	14930	ug/L	0	10	
Selenium	0.0440	0.0325	150.0	150.7	ug/L	0	10	
Silver	1.4794	1.3857	150.0	144.1	ug/L	-4	10	
Sodium	0.9479	0.8374	15000	14740	ug/L	-2	10	
Thallium	0.5266	0.5044	150.0	144.1	ug/L	-4	10	
Vanadium	2.7875	2.2587	150.0	145.4	ug/L	-3	10	
Zinc	0.6284	0.3333	150.0	146.2	ug/L	-3	10	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	746062	-3.83
Scandium	409443	410669	0.30
Germanium	101712	95718	-5.89
Indium	559595	502105	-10.27
Bismuth	426621	395961	-7.19

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726119 File : c2310119 Time : 23-MAR-2006 21:56
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3125	0.7544	150.0	145.1	ug/L	-3	10	
Antimony	0.2043	0.1589	150.0	141.5	ug/L	-6	10	
Arsenic	0.4038	0.3375	150.0	144.1	ug/L	-4	10	
Barium	0.0765	0.0703	150.0	141.1	ug/L	-6	10	
Beryllium	0.1266	0.1253	150.0	145.4	ug/L	-3	10	
Cadmium	0.3874	0.2839	150.0	147.9	ug/L	-1	10	
Calcium	0.0167	0.0151	15000	14460	ug/L	-4	10	
Chromium	2.8714	1.8121	150.0	142.6	ug/L	-5	10	
Cobalt	2.3948	2.2443	150.0	143.4	ug/L	-4	10	
Copper	0.8050	0.6198	150.0	142.0	ug/L	-5	10	
Iron	0.0673	0.0520	15000	14860	ug/L	-1	10	
Lead	0.7755	0.7258	150.0	146.5	ug/L	-2	10	
Magnesium	0.0908	0.0852	15000	14340	ug/L	-4	10	
Manganese	2.7719	2.3550	150.0	147.0	ug/L	-2	10	
Molybdenum	0.6400	0.6097	150.0	145.0	ug/L	-3	10	
Nickel	0.6215	0.5039	150.0	146.3	ug/L	-2	10	
Potassium	0.9681	0.5824	15000	14180	ug/L	-5	10	
Selenium	0.0440	0.0327	150.0	151.6	ug/L	1	10	
Silver	1.4794	1.3935	150.0	144.9	ug/L	-3	10	
Sodium	0.9479	0.8237	15000	14500	ug/L	-3	10	
Thallium	0.5266	0.5037	150.0	143.9	ug/L	-4	10	
Vanadium	2.7875	2.1722	150.0	139.8	ug/L	-7	10	
Zinc	0.6284	0.3367	150.0	147.7	ug/L	-2	10	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	743249	-4.20
Scandium	409443	409123	-0.08
Germanium	101712	96898	-4.73
Indium	559595	523933	-6.37
Bismuth	426621	413924	-2.98

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726134 File : c2310134 Time : 23-MAR-2006 23:19
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3125	0.7795	150.0	150.0	ug/L	0	10	
Antimony	0.2043	0.1572	150.0	139.9	ug/L	-7	10	
Arsenic	0.4038	0.3347	150.0	142.9	ug/L	-5	10	
Barium	0.0765	0.0691	150.0	138.8	ug/L	-7	10	
Beryllium	0.1266	0.1303	150.0	151.2	ug/L	1	10	
Cadmium	0.3874	0.2730	150.0	142.1	ug/L	-5	10	
Calcium	0.0167	0.0153	15000	14660	ug/L	-2	10	
Chromium	2.8714	1.9199	150.0	151.1	ug/L	1	10	
Cobalt	2.3948	2.2633	150.0	144.6	ug/L	-4	10	
Copper	0.8050	0.6282	150.0	143.9	ug/L	-4	10	
Iron	0.0673	0.0530	15000	15140	ug/L	1	10	
Lead	0.7755	0.7314	150.0	147.7	ug/L	-2	10	
Magnesium	0.0908	0.0874	15000	14720	ug/L	-2	10	
Manganese	2.7719	2.4019	150.0	150.0	ug/L	0	10	
Molybdenum	0.6400	0.5995	150.0	142.6	ug/L	-5	10	
Nickel	0.6215	0.5070	150.0	147.2	ug/L	-2	10	
Potassium	0.9681	0.6202	15000	15100	ug/L	1	10	
Selenium	0.0440	0.0323	150.0	149.6	ug/L	0	10	
Silver	1.4794	1.3558	150.0	141.0	ug/L	-6	10	
Sodium	0.9479	0.8185	15000	14400	ug/L	-4	10	
Thallium	0.5266	0.4961	150.0	141.7	ug/L	-6	10	
Vanadium	2.7875	2.3250	150.0	149.7	ug/L	0	10	
Zinc	0.6284	0.3289	150.0	144.3	ug/L	-4	10	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	759945	-2.04
Scandium	409443	429897	5.00
Germanium	101712	96016	-5.60
Indium	559595	503487	-10.03
Bismuth	426621	382921	-10.24

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726148 File : c2310148 Time : 24-MAR-2006 00:37
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3125	0.7723	150.0	148.6	ug/L	-1	10	
Antimony	0.2043	0.1596	150.0	142.1	ug/L	-5	10	
Arsenic	0.4038	0.3356	150.0	143.3	ug/L	-4	10	
Barium	0.0765	0.0701	150.0	140.7	ug/L	-6	10	
Beryllium	0.1266	0.1315	150.0	152.6	ug/L	2	10	
Cadmium	0.3874	0.2753	150.0	143.3	ug/L	-4	10	
Calcium	0.0167	0.0154	15000	14710	ug/L	-2	10	
Chromium	2.8714	1.8952	150.0	149.1	ug/L	-1	10	
Cobalt	2.3948	2.2531	150.0	143.9	ug/L	-4	10	
Copper	0.8050	0.6254	150.0	143.3	ug/L	-4	10	
Iron	0.0673	0.0527	15000	15050	ug/L	0	10	
Lead	0.7755	0.7343	150.0	148.3	ug/L	-1	10	
Magnesium	0.0908	0.0856	15000	14420	ug/L	-4	10	
Manganese	2.7719	2.3837	150.0	148.8	ug/L	-1	10	
Molybdenum	0.6400	0.6029	150.0	143.4	ug/L	-4	10	
Nickel	0.6215	0.5041	150.0	146.4	ug/L	-2	10	
Potassium	0.9681	0.6194	15000	15080	ug/L	1	10	
Selenium	0.0440	0.0322	150.0	149.4	ug/L	0	10	
Silver	1.4794	1.3606	150.0	141.5	ug/L	-6	10	
Sodium	0.9479	0.8051	15000	14170	ug/L	-6	10	
Thallium	0.5266	0.5019	150.0	143.4	ug/L	-4	10	
Vanadium	2.7875	2.3656	150.0	152.3	ug/L	2	10	
Zinc	0.6284	0.3283	150.0	144.0	ug/L	-4	10	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	746525	-3.77
Scandium	409443	438273	7.04
Germanium	101712	96932	-4.70
Indium	559595	504016	-9.93
Bismuth	426621	383969	-10.00

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726162 File : c2310162 Time : 24-MAR-2006 01:56
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3125	0.7803	150.0	150.1	ug/L	0	10	
Antimony	0.2043	0.1596	150.0	142.1	ug/L	-5	10	
Arsenic	0.4038	0.3347	150.0	142.9	ug/L	-5	10	
Barium	0.0765	0.0708	150.0	142.3	ug/L	-5	10	
Beryllium	0.1266	0.1221	150.0	141.7	ug/L	-6	10	
Cadmium	0.3874	0.2886	150.0	150.3	ug/L	0	10	
Calcium	0.0167	0.0150	15000	14350	ug/L	-4	10	
Chromium	2.8714	1.7883	150.0	140.7	ug/L	-6	10	
Cobalt	2.3948	2.2112	150.0	141.2	ug/L	-6	10	
Copper	0.8050	0.6137	150.0	140.6	ug/L	-6	10	
Iron	0.0673	0.0517	15000	14780	ug/L	-1	10	
Lead	0.7755	0.7349	150.0	148.4	ug/L	-1	10	
Magnesium	0.0908	0.0873	15000	14700	ug/L	-2	10	
Manganese	2.7719	2.2891	150.0	142.9	ug/L	-5	10	
Molybdenum	0.6400	0.6045	150.0	143.8	ug/L	-4	10	
Nickel	0.6215	0.4971	150.0	144.4	ug/L	-4	10	
Potassium	0.9681	0.5917	15000	14400	ug/L	-4	10	
Selenium	0.0440	0.0329	150.0	152.4	ug/L	2	10	
Silver	1.4794	1.3984	150.0	145.4	ug/L	-3	10	
Sodium	0.9479	0.8391	15000	14770	ug/L	-2	10	
Thallium	0.5266	0.5157	150.0	147.3	ug/L	-2	10	
Vanadium	2.7875	2.1100	150.0	135.8	ug/L	-9	10	
Zinc	0.6284	0.3332	150.0	146.1	ug/L	-3	10	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	725065	-6.54
Scandium	409443	383034	-6.45
Germanium	101712	96254	-5.37
Indium	559595	529129	-5.44
Bismuth	426621	420017	-1.55

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726168 File : c2310168 Time : 24-MAR-2006 02:29
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3125	0.7771	150.0	149.5	ug/L	0	10	
Antimony	0.2043	0.1589	150.0	141.4	ug/L	-6	10	
Arsenic	0.4038	0.3331	150.0	142.2	ug/L	-5	10	
Barium	0.0765	0.0701	150.0	140.8	ug/L	-6	10	
Beryllium	0.1266	0.1299	150.0	150.8	ug/L	1	10	
Cadmium	0.3874	0.2765	150.0	144.0	ug/L	-4	10	
Calcium	0.0167	0.0153	15000	14600	ug/L	-3	10	
Chromium	2.8714	1.8315	150.0	144.1	ug/L	-4	10	
Cobalt	2.3948	2.2134	150.0	141.4	ug/L	-6	10	
Copper	0.8050	0.6093	150.0	139.6	ug/L	-7	10	
Iron	0.0673	0.0514	15000	14680	ug/L	-2	10	
Lead	0.7755	0.7346	150.0	148.3	ug/L	-1	10	
Magnesium	0.0908	0.0871	15000	14660	ug/L	-2	10	
Manganese	2.7719	2.3074	150.0	144.1	ug/L	-4	10	
Molybdenum	0.6400	0.5981	150.0	142.3	ug/L	-5	10	
Nickel	0.6215	0.4999	150.0	145.2	ug/L	-3	10	
Potassium	0.9681	0.6044	15000	14710	ug/L	-2	10	
Selenium	0.0440	0.0322	150.0	149.1	ug/L	-1	10	
Silver	1.4794	1.3669	150.0	142.1	ug/L	-5	10	
Sodium	0.9479	0.8250	15000	14520	ug/L	-3	10	
Thallium	0.5266	0.5046	150.0	144.1	ug/L	-4	10	
Vanadium	2.7875	2.2848	150.0	147.1	ug/L	-2	10	
Zinc	0.6284	0.3300	150.0	144.7	ug/L	-4	10	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	734040	-5.38
Scandium	409443	404856	-1.12
Germanium	101712	96563	-5.06
Indium	559595	510160	-8.83
Bismuth	426621	399879	-6.27

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726175 File : c2310175 Time : 24-MAR-2006 03:08
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3125	0.7713	150.0	148.4	ug/L	-1	10	
Antimony	0.2043	0.1571	150.0	139.8	ug/L	-7	10	
Arsenic	0.4038	0.3343	150.0	142.7	ug/L	-5	10	
Barium	0.0765	0.0688	150.0	138.2	ug/L	-8	10	
Beryllium	0.1266	0.1338	150.0	155.3	ug/L	4	10	
Cadmium	0.3874	0.2751	150.0	143.3	ug/L	-4	10	
Calcium	0.0167	0.0153	15000	14660	ug/L	-2	10	
Chromium	2.8714	1.9592	150.0	154.2	ug/L	3	10	
Cobalt	2.3948	2.2686	150.0	144.9	ug/L	-3	10	
Copper	0.8050	0.6283	150.0	144.0	ug/L	-4	10	
Iron	0.0673	0.0528	15000	15080	ug/L	1	10	
Lead	0.7755	0.7301	150.0	147.4	ug/L	-2	10	
Magnesium	0.0908	0.0849	15000	14290	ug/L	-5	10	
Manganese	2.7719	2.4247	150.0	151.4	ug/L	1	10	
Molybdenum	0.6400	0.6004	150.0	142.8	ug/L	-5	10	
Nickel	0.6215	0.5086	150.0	147.7	ug/L	-2	10	
Potassium	0.9681	0.6175	15000	15040	ug/L	0	10	
Selenium	0.0440	0.0321	150.0	148.5	ug/L	-1	10	
Silver	1.4794	1.3519	150.0	140.6	ug/L	-6	10	
Sodium	0.9479	0.7955	15000	14000	ug/L	-7	10	
Thallium	0.5266	0.4840	150.0	138.3	ug/L	-8	10	
Vanadium	2.7875	2.4746	150.0	159.3	ug/L	6	10	
Zinc	0.6284	0.3268	150.0	143.3	ug/L	-4	10	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	720397	-7.14
Scandium	409443	432283	5.58
Germanium	101712	93260	-8.31
Indium	559595	481538	-13.95
Bismuth	426621	373090	-12.55

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726014 File : c2310014 Time : 23-MAR-2006 12:04
Cal : 56118726001 Caldate: 23-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1795]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1157]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.1916]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1364]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	792498	2.15
Scandium	409443	432548	5.64
Germanium	101712	98041	-3.61
Indium	559595	534525	-4.48
Bismuth	426621	392812	-7.92

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726030 File : c2310030 Time : 23-MAR-2006 13:33
Cal : 56118726001 Caldate: 23-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1367]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2005]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.07467]	0.5000	0.02100	ug/L	!ib
Vanadium	[0.1485]	1.000	0.08283	ug/L	!ib
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	802643	3.46
Scandium	409443	443027	8.20
Germanium	101712	97865	-3.78
Indium	559595	535905	-4.23
Bismuth	426621	401791	-5.82

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726044 File : c2310044 Time : 23-MAR-2006 14:51
Cal : 56118726001 Caldate: 23-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1236]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	[0.4174]	0.5000	0.04426	ug/L	!ib
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	[5.968]	50.00	3.054	ug/L	!ib
Manganese	[0.03882]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.09630]	0.2500	0.03982	ug/L	!ib
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	[37.67]	50.00	9.919	ug/L	!ib
Thallium	[0.09113]	0.5000	0.02100	ug/L	!ib
Vanadium	[0.1150]	1.000	0.08283	ug/L	!ib
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	775555	-0.03
Scandium	409443	427964	4.52
Germanium	101712	95781	-5.83
Indium	559595	526233	-5.96
Bismuth	426621	401889	-5.80

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726054 File : c2310054 Time : 23-MAR-2006 15:51
Cal : 56118726001 Caldate: 23-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1657]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	[0.03959]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.01237]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	[0.3778]	0.5000	0.04426	ug/L	!ib
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	[6.126]	50.00	3.054	ug/L	!ib
Manganese	[0.04494]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.1047]	0.2500	0.03982	ug/L	!ib
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	[38.17]	50.00	9.919	ug/L	!ib
Thallium	[0.2004]	0.5000	0.02100	ug/L	!ib
Vanadium	[0.09786]	1.000	0.08283	ug/L	!ib
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	793346	2.26
Scandium	409443	426560	4.18
Germanium	101712	95570	-6.04
Indium	559595	530780	-5.15
Bismuth	426621	408391	-4.27

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726065 File : c2310065 Time : 23-MAR-2006 16:52
Cal : 56118726001 Caldate: 23-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1201]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1615]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.09395]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	757698	-2.33
Scandium	409443	407270	-0.53
Germanium	101712	95902	-5.71
Indium	559595	526770	-5.87
Bismuth	426621	405449	-4.96

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726094 File : c2310094 Time : 23-MAR-2006 19:36
Cal : 56118726001 Caldate: 23-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.06613]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1469]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.06995]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.04996]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	780539	0.61
Scandium	409443	421409	2.92
Germanium	101712	96761	-4.87
Indium	559595	531190	-5.08
Bismuth	426621	406004	-4.83

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726108 File : c2310108 Time : 23-MAR-2006 20:54
Cal : 56118726001 Caldate: 23-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.04516]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.1214]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.02716]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	777690	0.24
Scandium	409443	412894	0.84
Germanium	101712	95386	-6.22
Indium	559595	527828	-5.68
Bismuth	426621	400807	-6.05

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726121 File : c2310121 Time : 23-MAR-2006 22:07
Cal : 56118726001 Caldate: 23-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.05001]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	[0.2015]	0.5000	0.04426	ug/L	!ib
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.06266]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.04637]	0.2500	0.03982	ug/L	!ib
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2693]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.05009]	0.5000	0.02100	ug/L	!ib
Vanadium	[0.08750]	1.000	0.08283	ug/L	!ib
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	764578	-1.45
Scandium	409443	378081	-7.66
Germanium	101712	98293	-3.36
Indium	559595	557852	-0.31
Bismuth	426621	427619	0.23

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726136 File : c2310136 Time : 23-MAR-2006 23:30
Cal : 56118726001 Caldate: 23-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.04098]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.05123]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.04212]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	763782	-1.55
Scandium	409443	431626	5.42
Germanium	101712	96913	-4.72
Indium	559595	532015	-4.93
Bismuth	426621	395039	-7.40

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726150 File : c2310150 Time : 24-MAR-2006 00:48
Cal : 56118726001 Caldate: 23-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.04470]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1391]	0.5000	0.09029	ug/L	!ib
Barium	[0.02603]	0.2500	0.02391	ug/L	!ib
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.05069]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.05859]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	767550	-1.06
Scandium	409443	406744	-0.66
Germanium	101712	99054	-2.61
Indium	559595	552678	-1.24
Bismuth	426621	423001	-0.85

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726164 File : c2310164 Time : 24-MAR-2006 02:07
Cal : 56118726001 Caldate: 23-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	[0.1328]	0.5000	0.09029	ug/L	!ib
Barium	[0.02994]	0.2500	0.02391	ug/L	!ib
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.008082]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.04287]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.04491]	0.2500	0.03982	ug/L	!ib
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.05058]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	745110	-3.96
Scandium	409443	417507	1.97
Germanium	101712	94887	-6.71
Indium	559595	518108	-7.41
Bismuth	426621	393877	-7.68

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726170 File : c2310170 Time : 24-MAR-2006 02:41
Cal : 56118726001 Caldate: 23-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.06036]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.01052]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	[8.025]	50.00	6.980	ug/L	!ib
Lead	[0.01038]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.04201]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.04453]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	750729	-3.23
Scandium	409443	421563	2.96
Germanium	101712	93696	-7.88
Indium	559595	506462	-9.49
Bismuth	426621	384434	-9.89

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726177 File : c2310177 Time : 24-MAR-2006 03:20
Cal : 56118726001 Caldate: 23-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.04175]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.04644]	0.5000	0.03860	ug/L	!ib
Cobalt	[0.009040]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	[10.73]	50.00	6.980	ug/L	!ib
Lead	[0.008812]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.03352]	0.5000	0.02100	ug/L	!ib
Vanadium	[0.09647]	1.000	0.08283	ug/L	!ib
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	744839	-3.99
Scandium	409443	435876	6.46
Germanium	101712	94172	-7.41
Indium	559595	508641	-9.11
Bismuth	426621	382921	-10.24

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726016 File : c2310016 Time : 23-MAR-2006 12:16
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	94990	ug/L	-5		
Arsenic	100.0	97.80	ug/L	-2	20	
Cadmium	100.0	79.77	ug/L	-20	20	
Calcium	300000	287400	ug/L	-4		
Chromium	200.0	203.1	ug/L	2	20	
Cobalt	200.0	209.6	ug/L	5	20	
Copper	200.0	185.6	ug/L	-7	20	
Iron	250000	231900	ug/L	-7		
Magnesium	100000	100700	ug/L	1		
Manganese	200.0	207.9	ug/L	4	20	
Molybdenum	2000	1860	ug/L	-7		
Nickel	200.0	198.2	ug/L	-1	20	
Potassium	100000	96980	ug/L	-3		
Selenium	100.0	88.19	ug/L	-12	20	
Silver	50.00	43.22	ug/L	-14	20	
Sodium	250000	249200	ug/L	0		
Vanadium	200.0	206.9	ug/L	3	20	
Zinc	100.0	89.72	ug/L	-10	20	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Scandium	409443	370781	-9.44
Germanium	101712	92534	-9.02

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726015 File : c2310015 Time : 23-MAR-2006 12:10
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.485	0.2500	ug/L	
Arsenic	1.167	0.5000	ug/L	
Barium	1.030	0.2500	ug/L	
Beryllium	[0.01761]	0.2500	ug/L	
Cadmium	[0]	0.2500	ug/L	
Chromium	1.605	0.5000	ug/L	
Cobalt	2.917	0.2500	ug/L	
Copper	2.135	0.5000	ug/L	
Lead	1.221	0.2500	ug/L	
Manganese	1.075	0.2500	ug/L	
Nickel	2.571	0.2500	ug/L	
Selenium	0.5569	0.5000	ug/L	
Silver	[0.1332]	0.2500	ug/L	
Thallium	[0.1340]	0.5000	ug/L	
Vanadium	[0.3470]	1.000	ug/L	
Zinc	2.452	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	95120	ug/L	95
Calcium	300000	297700	ug/L	99
Iron	250000	236300	ug/L	95
Magnesium	100000	101100	ug/L	101
Molybdenum	2000	1926	ug/L	96
Potassium	100000	99720	ug/L	100
Sodium	250000	247900	ug/L	99

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	662115	-14.65
Scandium	409443	368392	-10.03
Germanium	101712	90684	-10.84
Indium	559595	432081	-22.79
Bismuth	426621	313872	-26.43

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726016 File : c2310016 Time : 23-MAR-2006 12:16
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	94990	ug/L	-5		
Arsenic	100.0	97.80	ug/L	-2	20	
Cadmium	100.0	79.77	ug/L	-20	20	
Calcium	300000	287400	ug/L	-4		
Chromium	200.0	203.1	ug/L	2	20	
Cobalt	200.0	209.6	ug/L	5	20	
Copper	200.0	185.6	ug/L	-7	20	
Iron	250000	231900	ug/L	-7		
Magnesium	100000	100700	ug/L	1		
Manganese	200.0	207.9	ug/L	4	20	
Molybdenum	2000	1860	ug/L	-7		
Nickel	200.0	198.2	ug/L	-1	20	
Potassium	100000	96980	ug/L	-3		
Selenium	100.0	88.19	ug/L	-12	20	
Silver	50.00	43.22	ug/L	-14	20	
Sodium	250000	249200	ug/L	0		
Vanadium	200.0	206.9	ug/L	3	20	
Zinc	100.0	89.72	ug/L	-10	20	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Scandium	409443	370781	-9.44
Germanium	101712	92534	-9.02

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726060 File : c2310060 Time : 23-MAR-2006 16:25
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.139	0.2500	ug/L	
Arsenic	1.007	0.5000	ug/L	
Barium	1.001	0.2500	ug/L	
Beryllium	[0.01393]	0.2500	ug/L	
Cadmium	[0]	0.2500	ug/L	
Chromium	1.577	0.5000	ug/L	
Cobalt	2.875	0.2500	ug/L	
Copper	2.123	0.5000	ug/L	
Lead	1.230	0.2500	ug/L	
Manganese	1.076	0.2500	ug/L	
Nickel	2.416	0.2500	ug/L	
Selenium	0.6615	0.5000	ug/L	
Silver	[0.1238]	0.2500	ug/L	
Thallium	0.6952	0.5000	ug/L	
Vanadium	[0.3343]	1.000	ug/L	
Zinc	2.547	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	93860	ug/L	94
Calcium	300000	288700	ug/L	96
Iron	250000	237900	ug/L	95
Magnesium	100000	100300	ug/L	100
Molybdenum	2000	1941	ug/L	97
Potassium	100000	95390	ug/L	95
Sodium	250000	250800	ug/L	100

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	653489	-15.77
Scandium	409443	353362	-13.70
Germanium	101712	93284	-8.29
Indium	559595	469047	-16.18
Bismuth	426621	356703	-16.39

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726061 File : c2310061 Time : 23-MAR-2006 16:30
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	93070	ug/L	-7		
Arsenic	100.0	105.4	ug/L	5	20	
Cadmium	100.0	94.86	ug/L	-5	20	
Calcium	300000	281400	ug/L	-6		
Chromium	200.0	231.3	ug/L	16	20	
Cobalt	200.0	232.1	ug/L	16	20	
Copper	200.0	201.4	ug/L	1	20	
Iron	250000	234700	ug/L	-6		
Magnesium	100000	98870	ug/L	-1		
Manganese	200.0	236.0	ug/L	18	20	
Molybdenum	2000	1864	ug/L	-7		
Nickel	200.0	215.9	ug/L	8	20	
Potassium	100000	94400	ug/L	-6		
Selenium	100.0	94.77	ug/L	-5	20	
Silver	50.00	48.33	ug/L	-3	20	
Sodium	250000	243200	ug/L	-3		
Vanadium	200.0	233.4	ug/L	17	20	
Zinc	100.0	96.37	ug/L	-4	20	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Scandium	409443	358112	-12.54
Germanium	101712	87421	-14.05

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726122 File : c2310122 Time : 23-MAR-2006 22:13
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.143	0.2500	ug/L	
Arsenic	1.295	0.5000	ug/L	
Barium	0.8842	0.2500	ug/L	
Beryllium	[0.01148]	0.2500	ug/L	
Cadmium	[0]	0.2500	ug/L	
Chromium	1.634	0.5000	ug/L	
Cobalt	2.821	0.2500	ug/L	
Copper	2.139	0.5000	ug/L	
Lead	1.189	0.2500	ug/L	
Manganese	1.103	0.2500	ug/L	
Nickel	2.493	0.2500	ug/L	
Selenium	0.6480	0.5000	ug/L	
Silver	[0.1217]	0.2500	ug/L	
Thallium	[0.04273]	0.5000	ug/L	
Vanadium	[0.4068]	1.000	ug/L	
Zinc	2.507	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	93050	ug/L	93
Calcium	300000	288100	ug/L	96
Iron	250000	232900	ug/L	93
Magnesium	100000	98060	ug/L	98
Molybdenum	2000	1900	ug/L	95
Potassium	100000	97290	ug/L	97
Sodium	250000	242300	ug/L	97

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	620694	-19.99
Scandium	409443	353850	-13.58
Germanium	101712	86443	-15.01
Indium	559595	421554	-24.67
Bismuth	426621	307559	-27.91

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726123 File : c2310123 Time : 23-MAR-2006 22:18
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	91190	ug/L	-9		
Arsenic	100.0	103.9	ug/L	4	20	
Cadmium	100.0	91.81	ug/L	-8	20	
Calcium	300000	279200	ug/L	-7		
Chromium	200.0	224.7	ug/L	12	20	
Cobalt	200.0	225.8	ug/L	13	20	
Copper	200.0	197.4	ug/L	-1	20	
Iron	250000	229300	ug/L	-8		
Magnesium	100000	96100	ug/L	-4		
Manganese	200.0	233.0	ug/L	17	20	
Molybdenum	2000	1832	ug/L	-8		
Nickel	200.0	211.7	ug/L	6	20	
Potassium	100000	93710	ug/L	-6		
Selenium	100.0	93.37	ug/L	-7	20	
Silver	50.00	47.04	ug/L	-6	20	
Sodium	250000	238400	ug/L	-5		
Vanadium	200.0	232.0	ug/L	16	20	
Zinc	100.0	94.13	ug/L	-6	20	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Scandium	409443	360653	-11.92
Germanium	101712	88149	-13.33

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726171 File : c2310171 Time : 24-MAR-2006 02:46
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.187	0.2500	ug/L	
Arsenic	0.7643	0.5000	ug/L	
Barium	0.9145	0.2500	ug/L	
Beryllium	[0.01019]	0.2500	ug/L	
Cadmium	[0.1125]	0.2500	ug/L	
Chromium	1.634	0.5000	ug/L	
Cobalt	2.747	0.2500	ug/L	
Copper	2.166	0.5000	ug/L	
Lead	1.205	0.2500	ug/L	
Manganese	1.061	0.2500	ug/L	
Nickel	2.494	0.2500	ug/L	
Selenium	0.5914	0.5000	ug/L	
Silver	[0.1193]	0.2500	ug/L	
Thallium	[0.04487]	0.5000	ug/L	
Vanadium	[0.3104]	1.000	ug/L	
Zinc	2.239	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	91450	ug/L	91
Calcium	300000	286600	ug/L	96
Iron	250000	231700	ug/L	93
Magnesium	100000	95420	ug/L	95
Molybdenum	2000	1881	ug/L	94
Potassium	100000	97260	ug/L	97
Sodium	250000	233600	ug/L	93

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Lithium	775809	585680	-24.51
Scandium	409443	358028	-12.56
Germanium	101712	83891	-17.52
Indium	559595	401165	-28.31
Bismuth	426621	288337	-32.41

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56118726172 File : c2310172 Time : 24-MAR-2006 02:52
Cal : 56118726001 Caldate: 23-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	90050	ug/L	-10		
Arsenic	100.0	103.9	ug/L	4	20	
Cadmium	100.0	90.94	ug/L	-9	20	
Calcium	300000	281000	ug/L	-6		
Chromium	200.0	230.1	ug/L	15	20	
Cobalt	200.0	225.9	ug/L	13	20	
Copper	200.0	196.2	ug/L	-2	20	
Iron	250000	229100	ug/L	-8		
Magnesium	100000	93660	ug/L	-6		
Manganese	200.0	235.4	ug/L	18	20	
Molybdenum	2000	1837	ug/L	-8		
Nickel	200.0	210.6	ug/L	5	20	
Potassium	100000	96940	ug/L	-3		
Selenium	100.0	94.25	ug/L	-6	20	
Silver	50.00	46.70	ug/L	-7	20	
Sodium	250000	228700	ug/L	-9		
Vanadium	200.0	235.7	ug/L	18	20	
Zinc	100.0	92.58	ug/L	-7	20	

ISTD (ICALBLK c2310003)	ICALBLK Abund	Abund	%Drift
Scandium	409443	366464	-10.50
Germanium	101712	84356	-17.06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56118726 Instrument: MET05 Agilent ICP-MS Begun: 23-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	c2310001	TUN				23-MAR-2006 10:46	1.0	1.0				1	
003	c2310003	ICALBLK	std-blk			23-MAR-2006 10:58	1.0	1.0				2	
004	c2310004	ICAL	CS1			23-MAR-2006 11:03	1.0	1.0				3	
005	c2310005	ICAL	CS2			23-MAR-2006 11:09	1.0	1.0				4	
006	c2310006	ICAL	CS3			23-MAR-2006 11:15	1.0	1.0				5	
007	c2310007	ICAL	CS4			23-MAR-2006 11:20	1.0	1.0				6	
008	c2310008	ICAL	CS5			23-MAR-2006 11:26	1.0	1.0				7	
009	c2310009	ICAL	CS6			23-MAR-2006 11:31	1.0	1.0				8	
012	c2310012	ICV				23-MAR-2006 11:53	1.0	1.0			1	9 2	
014	c2310014	ICB				23-MAR-2006 12:04	1.0	1.0			1	2	
015	c2310015	ICSA				23-MAR-2006 12:10	1.0	1.0			1	10 2	7:CA=297700
016	c2310016	ICSAB				23-MAR-2006 12:16	1.0	1.0			1	11 2	11:CA=287400
018	c2310018	SAMPLE	185385-009	111391	Filtra	23-MAR-2006 12:27	20.0	1.0			1	2	
019	c2310019	SAMPLE	185385-011	111391	Filtra	23-MAR-2006 12:32	1.0	1.0			1	2	1:NA=26590.0
020	c2310020	SAMPLE	185385-017	111391	Filtra	23-MAR-2006 12:38	2.0	1.0			1	2	3:NA=34170.0
022	c2310022	BLANK	QC331373	111276	Filtra	23-MAR-2006 12:49	1.0	1.0			1	2	
023	c2310023	BS	QC331374	111276	Filtra	23-MAR-2006 12:54	1.0	1.0			1	2	
024	c2310024	BSD	QC331375	111276	Filtra	23-MAR-2006 13:00	1.0	1.0			1	2	
025	c2310025	MSS	185457-009	111276	Filtra	23-MAR-2006 13:05	1.0	1.0	5		1	2	4:NA=107400
026	c2310026	SER	QC331378	111276	Filtra	23-MAR-2006 13:11	5.0	1.0			1	2	2:NA=22680.0
028	c2310028	CCV				23-MAR-2006 13:22	1.0	1.0			1	12 2	
030	c2310030	CCB				23-MAR-2006 13:33	1.0	1.0			1	2	
031	c2310031	MSS	185457-009	111276	Filtra	23-MAR-2006 13:39	1.0	1.0	4		1	2	4:NA=104100
032	c2310032	MSS	185457-009	111276	Filtra	23-MAR-2006 13:45	10.0	1.0			1	2	
033	c2310033	SER	QC331378	111276	Filtra	23-MAR-2006 13:50	50.0	1.0		1	1	2	
034	c2310034	MS	QC331376	111276	Filtra	23-MAR-2006 13:56	1.0	1.0	2		1	2	6:NA=118900
035	c2310035	MSD	QC331377	111276	Filtra	23-MAR-2006 14:01	1.0	1.0	2		1	2	6:NA=116900
036	c2310036	PDS	QC331379	111276	Filtra	23-MAR-2006 14:07	1.0	1.0	2		1	13 2	6:NA=115500
037	c2310037	MS	QC331376	111276	Filtra	23-MAR-2006 14:12	10.0	1.0			1	2	
038	c2310038	MSD	QC331377	111276	Filtra	23-MAR-2006 14:18	10.0	1.0		2	1	2	
039	c2310039	PDS	QC331379	111276	Filtra	23-MAR-2006 14:23	10.0	1.0			1	13 2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: MeiWu Date: 3/23/6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56118726 Instrument: MET05 Agilent ICP-MS Begun: 23-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
040	c2310040	SAMPLE	185381-011	111276	Filtra	23-MAR-2006 14:29	1.0	1.0	3		1	2	3:NA=115700
042	c2310042	CCV				23-MAR-2006 14:40	1.0	1.0			1	12 2	
044	c2310044	CCB				23-MAR-2006 14:51	1.0	1.0			1	2	
045	c2310045	SAMPLE	185381-012	111276	Filtra	23-MAR-2006 14:57	1.0	1.0	3		1	2	3:NA=116100
046	c2310046	SAMPLE	185381-013	111276	Filtra	23-MAR-2006 15:03	1.0	1.0	3		1	2	3:NA=178400
047	c2310047	SAMPLE	185381-014	111276	Filtra	23-MAR-2006 15:08	1.0	1.0	4		1	2	4:NA=175100
048	c2310048	SAMPLE	185381-011	111276	Filtra	23-MAR-2006 15:14	10.0	1.0			1	2	
049	c2310049	SAMPLE	185381-012	111276	Filtra	23-MAR-2006 15:19	10.0	1.0			1	2	
050	c2310050	BLANK	QC332716	111602	Filtra	23-MAR-2006 15:25	1.0	1.0			1	2	
051	c2310051	BS	QC332717	111602	Filtra	23-MAR-2006 15:31	1.0	1.0			1	2	
052	c2310052	BSD	QC332718	111602	Filtra	23-MAR-2006 15:36	1.0	1.0			1	2	
053	c2310053	CCV				23-MAR-2006 15:42	1.0	1.0			1	12 2	
054	c2310054	CCB				23-MAR-2006 15:51	1.0	1.0			1	2	
055	c2310055	MSS	185721-001	111602	Filtra	23-MAR-2006 15:57	5.0	1.0	3		1	2	3:MG=112060
056	c2310056	SER	QC332721	111602	Filtra	23-MAR-2006 16:03	25.0	1.0			1	2	2:NA=192520
057	c2310057	MS	QC332719	111602	Filtra	23-MAR-2006 16:08	5.0	1.0			1	2	3:MG=110090
058	c2310058	MSD	QC332720	111602	Filtra	23-MAR-2006 16:14	5.0	1.0			1	2	3:MG=117900
059	c2310059	PDS	QC332722	111602	Filtra	23-MAR-2006 16:19	5.0	1.0			1	13 2	3:MG=120200
060	c2310060	ICSA				23-MAR-2006 16:25	1.0	1.0			1	10 2	7:CA=288700
061	c2310061	ICSAB				23-MAR-2006 16:30	1.0	1.0			1	11 2	13:CA=281400
063	c2310063	CCV				23-MAR-2006 16:41	1.0	1.0			1	12 2	
065	c2310065	CCB				23-MAR-2006 16:52	1.0	1.0			1	2	
066	c2310066	TUN				23-MAR-2006 16:59	1.0	1.0				1	
067	c2310067	BLANK	QC332723	111603	Filtra	23-MAR-2006 17:05	1.0	1.0			1	2	
068	c2310068	BS	QC332724	111603	Filtra	23-MAR-2006 17:11	1.0	1.0			1	2	
069	c2310069	BSD	QC332725	111603	Filtra	23-MAR-2006 17:16	1.0	1.0			1	2	
070	c2310070	MSS	185457-027	111603	Filtra	23-MAR-2006 17:22	1.0	1.0	3		1	2	3:NA=60240.0
071	c2310071	SER	QC332728	111603	Filtra	23-MAR-2006 17:28	5.0	1.0		1	1	2	
072	c2310072	MS	QC332726	111603	Filtra	23-MAR-2006 17:33	1.0	1.0			1	2	3:NA=67630.0
073	c2310073	MSD	QC332727	111603	Filtra	23-MAR-2006 17:39	1.0	1.0			1	2	3:NA=69230.0
074	c2310074	SAMPLE	185381-013	111276	Filtra	23-MAR-2006 17:44	10.0	1.0			1	2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: Meiwu Date: 3/27/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56118726 Instrument: MET05 Agilent ICP-MS Begun: 23-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
075	c2310075	SAMPLE	185381-014	111276	Filtra	23-MAR-2006 17:50	2.0	1.0	3		1	2	3:NA=86450.0
076	c2310076	SAMPLE	185381-014	111276	Filtra	23-MAR-2006 17:55	10.0	1.0			1	2	
078	c2310078	CCV				23-MAR-2006 18:07	1.0	1.0			1	12 2	
080	c2310080	CCB				23-MAR-2006 18:18	1.0	1.0			1	2	
081	c2310081	PDS	QC332729	111603	Filtra	23-MAR-2006 18:23	1.0	1.0			1	13 2	3:NA=67240.0
082	c2310082	MSS	185457-027	111603	Filtra	23-MAR-2006 18:29	10.0	1.0			1	2	
083	c2310083	SER	QC332728	111603	Filtra	23-MAR-2006 18:35	50.0	1.0			1	2	
084	c2310084	MS	QC332726	111603	Filtra	23-MAR-2006 18:40	10.0	1.0			1	2	
085	c2310085	MSD	QC332727	111603	Filtra	23-MAR-2006 18:46	10.0	1.0		1	1	2	
086	c2310086	PDS	QC332729	111603	Filtra	23-MAR-2006 18:52	10.0	1.0			1	13 2	
087	c2310087	SAMPLE	185456-001	111603	Filtra	23-MAR-2006 18:57	1.0	1.0			1	2	3:CA=29510.0
088	c2310088	SAMPLE	185456-002	111603	Filtra	23-MAR-2006 19:03	1.0	1.0	2		1	2	1:NA=178500
089	c2310089	SAMPLE	185456-003	111603	Filtra	23-MAR-2006 19:08	1.0	1.0			1	2	1:NA=23790.0
090	c2310090	SAMPLE	185456-004	111603	Filtra	23-MAR-2006 19:14	1.0	1.0			1	2	1:NA=47040.0
092	c2310092	CCV				23-MAR-2006 19:25	1.0	1.0			1	12 2	
094	c2310094	CCB				23-MAR-2006 19:36	1.0	1.0			1	2	
095	c2310095	SAMPLE	185456-005	111603	Filtra	23-MAR-2006 19:42	1.0	1.0			1	2	3:NA=34380.0
096	c2310096	SAMPLE	185456-006	111603	Filtra	23-MAR-2006 19:47	1.0	1.0			1	2	3:NA=46790.0
097	c2310097	SAMPLE	185456-007	111603	Filtra	23-MAR-2006 19:53	1.0	1.0	1		1	2	3:NA=32510.0
098	c2310098	SAMPLE	185456-008	111603	Filtra	23-MAR-2006 19:58	1.0	1.0			1	2	1:NA=177300
099	c2310099	SAMPLE	185456-009	111603	Filtra	23-MAR-2006 20:04	1.0	1.0	1		1	2	3:NA=26500.0
100	c2310100	SAMPLE	185381-003	111241	Filtra	23-MAR-2006 20:10	10.0	1.0			1	2	
101	c2310101	SAMPLE	185381-004	111241	Filtra	23-MAR-2006 20:15	10.0	1.0			1	2	
102	c2310102	SAMPLE	185381-005	111241	Filtra	23-MAR-2006 20:21	20.0	1.0			1	2	
103	c2310103	SAMPLE	185381-006	111241	Filtra	23-MAR-2006 20:26	20.0	1.0			1	2	
104	c2310104	SAMPLE	185381-007	111241	Filtra	23-MAR-2006 20:32	10.0	1.0			1	2	
106	c2310106	CCV				23-MAR-2006 20:43	1.0	1.0			1	12 2	
108	c2310108	CCB				23-MAR-2006 20:54	1.0	1.0			1	2	
109	c2310109	SAMPLE	185381-008	111241	Filtra	23-MAR-2006 21:00	40.0	1.0			1	2	
110	c2310110	SAMPLE	185381-009	111241	Filtra	23-MAR-2006 21:06	40.0	1.0			1	2	
111	c2310111	SAMPLE	185381-010	111241	Filtra	23-MAR-2006 21:11	20.0	1.0			1	2	

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Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [signature] Date: 3/23/6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56118726 Instrument: MET05 Agilent ICP-MS Begun: 23-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
112	c2310112	SAMPLE	185381-015	111241	Filtra	23-MAR-2006 21:17	10.0	1.0		1	2	
113	c2310113	SAMPLE	185381-016	111241	Filtra	23-MAR-2006 21:22	20.0	1.0		1	2	
114	c2310114	SAMPLE	185381-017	111241	Filtra	23-MAR-2006 21:28	10.0	1.0		1	2	
115	c2310115	SAMPLE	185381-018	111241	Filtra	23-MAR-2006 21:33	10.0	1.0		1	2	
116	c2310116	SAMPLE	185381-019	111241	Filtra	23-MAR-2006 21:39	10.0	1.0		1	2	
117	c2310117	SAMPLE	185381-020	111241	Filtra	23-MAR-2006 21:45	10.0	1.0		1	2	
119	c2310119	CCV				23-MAR-2006 21:56	1.0	1.0		1	12 2	
121	c2310121	CCB				23-MAR-2006 22:07	1.0	1.0		1	2	
122	c2310122	ICSA				23-MAR-2006 22:13	1.0	1.0		1	10 2	7:CA=288100
123	c2310123	ICSAB				23-MAR-2006 22:18	1.0	1.0		1	11 2	12:CA=279200
125	c2310125	SAMPLE	185457-014	111603	Filtra	23-MAR-2006 22:29	1.0	1.0	5	1	2	6:NA=85300.0
126	c2310126	SAMPLE	185457-021	111603	Filtra	23-MAR-2006 22:35	1.0	1.0	3	1	2	3:NA=58680.0
127	c2310127	SAMPLE	185457-022	111603	Filtra	23-MAR-2006 22:40	1.0	1.0	3	1	2	3:NA=49070.0
128	c2310128	SAMPLE	185457-023	111603	Filtra	23-MAR-2006 22:46	1.0	1.0	4	1	2	4:MG=78400.0
129	c2310129	SAMPLE	185457-024	111603	Filtra	23-MAR-2006 22:51	1.0	1.0	4	1	2	4:MG=76500.0
130	c2310130	SAMPLE	185457-025	111603	Filtra	23-MAR-2006 22:57	1.0	1.0	1	1	2	1:NA=282100
131	c2310131	SAMPLE	185457-026	111603	Filtra	23-MAR-2006 23:03	1.0	1.0	3	1	2	3:NA=49570.0
132	c2310132	SAMPLE	185457-010	111276	Filtra	23-MAR-2006 23:08	1.0	1.0	4	1	2	4:CA=86220.0
134	c2310134	CCV				23-MAR-2006 23:19	1.0	1.0		1	12 2	
136	c2310136	CCB				23-MAR-2006 23:30	1.0	1.0		1	2	
137	c2310137	SAMPLE	185457-011	111276	Filtra	23-MAR-2006 23:36	1.0	1.0	6	1	2	7:NA=76730.0
138	c2310138	SAMPLE	185457-012	111276	Filtra	23-MAR-2006 23:42	1.0	1.0	6	1	2	7:NA=76390.0
139	c2310139	SAMPLE	185457-013	111276	Filtra	23-MAR-2006 23:47	1.0	1.0	4	1	2	4:NA=187400
140	c2310140	SAMPLE	185457-017	111276	Filtra	23-MAR-2006 23:53	1.0	1.0	4	1	2	5:CA=147800
141	c2310141	SAMPLE	185393-001	111276	Water	23-MAR-2006 23:58	1.0	1.0	1	1	2	4:NA=113600
142	c2310142	SAMPLE	185393-002	111276	Water	24-MAR-2006 00:04	1.0	1.0		1	2	2:NA=59640.0
143	c2310143	SAMPLE	185393-003	111276	Water	24-MAR-2006 00:09	1.0	1.0		1	2	4:NA=83210.0
144	c2310144	SAMPLE	185393-004	111276	Water	24-MAR-2006 00:15	1.0	1.0	1	1	2	4:NA=56840.0
145	c2310145	SAMPLE	185393-005	111276	Water	24-MAR-2006 00:20	1.0	1.0		1	2	3:NA=89870.0
146	c2310146	SAMPLE	185393-003	111276	Water	24-MAR-2006 00:26	1.0	1.0	1	1	2	2:NA=62050.0
148	c2310148	CCV				24-MAR-2006 00:37	1.0	1.0		1	12 2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [illegible] Date: 3/23/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56118726 Instrument: MET05 Agilent ICP-MS Begun: 23-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
150	c2310150	CCB				24-MAR-2006 00:48	1.0	1.0	1	2	
151	c2310151	SAMPLE	185457-014	111603	Filtra	24-MAR-2006 00:54	20.0	1.0	1	2	
152	c2310152	SAMPLE	185457-021	111603	Filtra	24-MAR-2006 01:00	20.0	1.0	1	2	
153	c2310153	SAMPLE	185457-022	111603	Filtra	24-MAR-2006 01:05	20.0	1.0	1	2	
154	c2310154	SAMPLE	185457-023	111603	Filtra	24-MAR-2006 01:11	20.0	1.0	1	2	
155	c2310155	SAMPLE	185457-024	111603	Filtra	24-MAR-2006 01:16	20.0	1.0	1	2	
156	c2310156	SAMPLE	185457-025	111603	Filtra	24-MAR-2006 01:22	20.0	1.0	1	2	
157	c2310157	SAMPLE	185457-026	111603	Filtra	24-MAR-2006 01:28	20.0	1.0	1	2	
158	c2310158	SAMPLE	185457-010	111276	Filtra	24-MAR-2006 01:33	20.0	1.0	1	2	
159	c2310159	SAMPLE	185457-011	111276	Filtra	24-MAR-2006 01:39	20.0	1.0	1	2	
160	c2310160	SAMPLE	185457-012	111276	Filtra	24-MAR-2006 01:45	20.0	1.0	1	2	
162	c2310162	CCV				24-MAR-2006 01:56	1.0	1.0	1	12 2	
164	c2310164	CCB				24-MAR-2006 02:07	1.0	1.0	1	2	
165	c2310165	SAMPLE	185457-013	111276	Filtra	24-MAR-2006 02:13	20.0	1.0	1	2	
166	c2310166	SAMPLE	185457-017	111276	Filtra	24-MAR-2006 02:18	20.0	1.0	1	2	606
168	c2310168	CCV				24-MAR-2006 02:29	1.0	1.0	1	12 2	
170	c2310170	CCB				24-MAR-2006 02:41	1.0	1.0	1	2	
171	c2310171	ICSA				24-MAR-2006 02:46	1.0	1.0	1	10 2	7:CA=286600
172	c2310172	ICSAB				24-MAR-2006 02:52	1.0	1.0	1	11 2	12:CA=281000
175	c2310175	CCV				24-MAR-2006 03:08	1.0	1.0	1	12 2	
177	c2310177	CCB				24-MAR-2006 03:20	1.0	1.0	1	2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [illegible] Date: 3/23/6

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56120449001
Units : ug/L

Date : 24-MAR-2006 15:41
X Axis : R

Reviewer: ---
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	c2415004	56120449004	CS1	24-MAR-2006 15:46	S2889
L2	c2415005	56120449005	CS2	24-MAR-2006 15:52	S2890
L3	c2415006	56120449006	CS3	24-MAR-2006 15:57	S2891
L4	c2415007	56120449007	CS4	24-MAR-2006 16:03	S2892
L5	c2415008	56120449008	CS5	24-MAR-2006 16:09	S2886
L6	c2415009	56120449009	CS6	24-MAR-2006 16:14	S2887

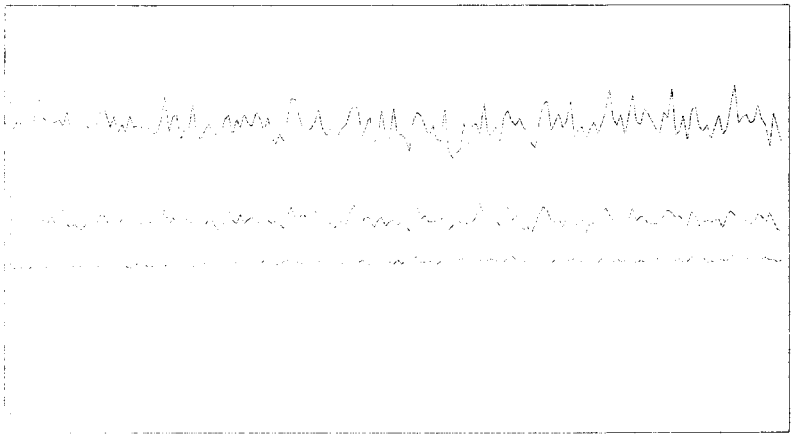
Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		1.8605	1.1946	0.4907	0.4094	0.4097	BLNK	-1.6870	2.46573		0.8730	1.000	0.995	
Antimony	0.1780	0.1434	0.1257	0.1098	0.1029	0.1019	BLNK	-0.1664	9.80139		0.1269	1.000	0.995	
Arsenic		0.2728	0.2620	0.2056	0.2010	0.1990	BLNK	-0.1452	5.01868		0.2281	1.000	0.995	
Barium	0.0583	0.0574	0.0479	0.0444	0.0446	0.0453	BLNK	-0.0450	22.1682		0.0496	1.000	0.995	
Beryllium	0.0661	0.0593	0.0607	0.0585	0.0590	0.0588	BLNK	-0.0029	17.0061		0.0604	1.000	0.995	
Cadmium	0.5468	0.4191	0.3292	0.2506	0.2312	0.2236	BLNK	-0.3575	4.45075		0.3334	1.000	0.995	
Calcium		0.0121	0.0104	0.0088	0.0089	0.0088	BLNK	-15.467	113.905		0.0098	1.000	0.995	709
Chromium		2.3744	1.7967	1.1375	1.0851	1.0705	BLNK	-0.6189	0.93502		1.4929	1.000	0.995	
Cobalt	1.6505	1.5760	1.5236	1.4844	1.4616	1.4745	BLNK	-0.0218	0.67948		1.5284	1.000	0.995	
Copper		0.7293	0.6445	0.4408	0.3931	0.3808	BLNK	-0.3058	2.61347		0.5177	1.000	0.995	
Iron		0.0506	0.0428	0.0355	0.0358	0.0349	BLNK	-21.353	28.5285		0.0399	1.000	0.995	
Lead	0.5069	0.5076	0.4807	0.4612	0.4729	0.4717	BLNK	-0.0318	2.11926		0.4835	1.000	0.995	
Magnesium		0.0517	0.0515	0.0513	0.0513	0.0492	BLNK	-1.4769	20.1503		0.0510	1.000	0.995	
Manganese	2.2757	2.0345	1.9020	1.6279	1.5790	1.6056	BLNK	-0.0591	0.62511		1.8374	1.000	0.995	
Molybdenum		0.4345	0.4191	0.4041	0.4047	0.4013	BLNK	-0.0797	2.48909		0.4127	1.000	0.995	
Nickel	0.6375	0.4675	0.4141	0.3391	0.3194	0.3117	BLNK	-0.1830	3.19569		0.4149	1.000	0.995	
Potassium		0.6418	0.4774	0.3254	0.3000	0.2894	BLNK	-57.377	3.44186		0.4068	1.000	0.995	
Selenium		0.0460	0.0348	0.0223	0.0207	0.0199	BLNK	-0.4990	50.0105		0.0287	1.000	0.995	
Silver	1.1672	1.0952	1.1200	1.0903	1.0505	1.0242	BLNK	-0.0141	0.97135		1.0912	1.000	0.995	
Sodium		0.6166	0.6212	0.5282	0.5092	0.4996	BLNK	-10.059	1.99501		0.5550	1.000	0.995	
Thallium		0.3411	0.3263	0.3031	0.3335	0.3464	BLNK	-0.0388	2.91011		0.3301	1.000	0.995	
Vanadium		1.3448	1.3988	1.2138	1.2039	1.2363	BLNK	-0.1996	0.81418		1.2795	1.000	0.995	
Zinc		1.2572	0.8374	0.3067	0.2462	0.2333	BLNK	-1.6768	4.28153		0.5762	0.999	0.995	

BLNK=Y=aX+[blank]

Instrument amount = a0 + response * a1 + response^2 * a2

Tune Report

Tune File : ATUNE.U



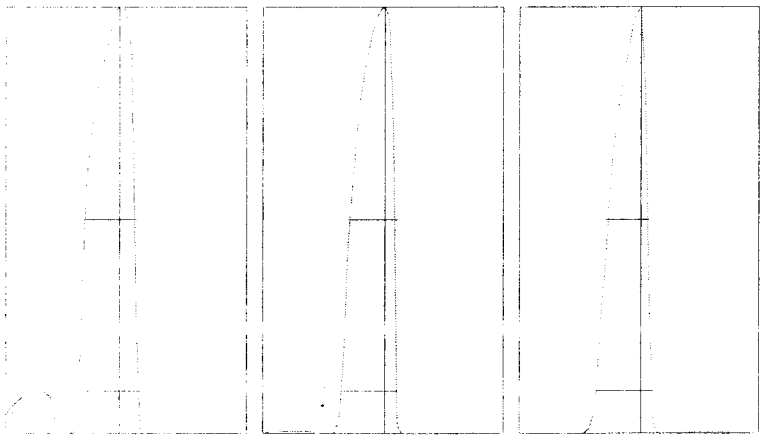
m/z:	7	89	205
Range:	20,000	50,000	50,000
Count:	13,609	23,577	20,220
Mean:	14435.6	24900.6	19936.6
RSD%:	4.15	2.70	1.95
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.45%
Doubly Charged:	70/140	0.87%

Background:

m/z:	7	89	205
Cps:	3.6	2.7	3.4



m/z:	7	89	205
Height:	14,342	24,842	20,339
Axis:	6.95	89.05	205.05
W-50%:	0.65	0.60	0.55
W-10%:	0.7500	0.700	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1210 W	Extract 1:	-156.2 V	AMU Gain:	129
RF Matching:	1.62 V	Extract 2:	-96 V	AMU Offset:	127
Smpl Depth:	7 mm	Einzel 1,3:	-66 V	Axis Gain:	0.9998
Torch-H:	0 mm	Einzel 2:	16 V	Axis Offset:	-0.07
Torch-V:	0.4 mm	Omega Bias:	-33 V	QP Bias:	1.5 V
Carrier Gas:	1.14 L/min	Omega (+):	1 V		
Makeup Gas:	0 L/min	Omega (-):	-6.7 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	7.1 V	Discriminator:	8.7 mV
PeriPump1:	0.1 rps	Plate Bias:	-12.5 V	Analog HV:	1760 V
PeriPump2:	--- rps			Pulse HV:	1200 V
S/C Temp:	2 degC				

Generated : Mar 24, 2006 09:36:10
Printed : Mar 24, 2006 09:36:18

P/A Factor Tuning Report

Acquired:Mar 24 2006 09:58 am

Mass[amu]	Element	P/A Factor
6	Li	0.069890
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.091599
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.096622
45	Sc	0.093601
51	V	0.096393
52	Cr	0.098039
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.100615
57	Fe	0.103163
59	Co	0.102826
60	Ni	Sensitivity too low
63	Cu	0.103753
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.103865
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.109250
111	Cd	Sensitivity too low
114	Cd	0.107106
115	In	0.111014
118	(In)	Sensitivity too high
121	Sb	0.107751
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.115795
166	Er	Sensitivity too low

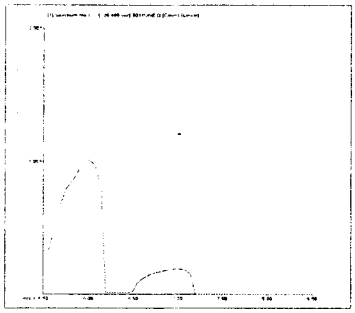
```
    205        Tl    0.119230
    206      (Pb)    0.115740
    207      (Pb)  Sensitivity too low
    208        Pb    0.118111
    209        Bi    0.119285

===Detector Parameters===
  Discriminator: 8.7 mV
      Analog HV: 1760 V
       Pulse HV: 1200 V
```

6020 QC Tune Report

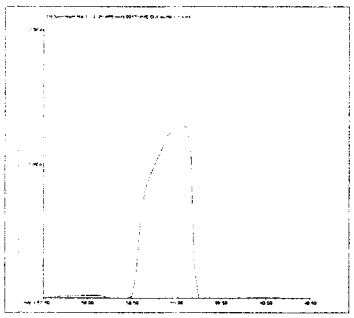
Data File: C:\ICPCHEM\1\DATA\06C2415a.B\001TUNE.D
Date Acquired: Mar 24 2006 03:29 pm
Acq. Method: TN6020.M
Operator:
Sample Name: TUN,S2898
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

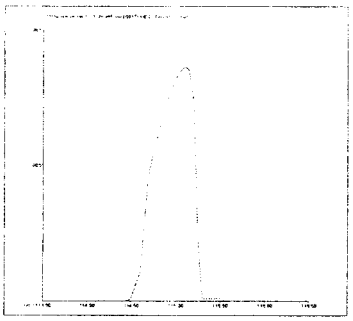
Element	Actual	Required	Flag
7 Li	0.91	5.00	
59 Co	0.65	5.00	
115 In	0.92	5.00	
205 Tl	0.37	5.00	



7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



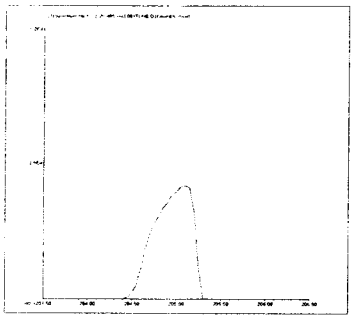
115 In

Mass Calib.

Actual:	115.10	
Required:	114.90 -	115.10
Flag:		

Peak Width

Actual:	0.60
Required:	0.90
Flag:	



205 Tl

Mass Calib.

Actual:	205.10	
Required:	204.90 -	205.10
Flag:		

Peak Width

Actual:	0.65
Required:	0.90
Flag:	

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2415A.B\002BLNK.D\002BLNK.D#
Date Acquired:	Mar 24 2006 03:35 pm
Acq. Method:	60200111.M
Operator:	
Sample Name:	RINSE
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update:	Mar 24 2006 11:26 am
Sample Type:	6-Blank
Dilution Factor:	1.00

QC Elements

Element	Corr. Conc.		RSD(%)	Raw Conc.	High Limit	Flag
9 Be	-0.001015	ppb	161.38	-0.001015	1.00	
23 Na	-1.738	ppb	92.98	-1.738	1.00	
26 Mg	-0.8588	ppb	49.65	-0.8588	1.00	
27 Al	-1.781	ppb	24.15	-1.781	1.00	
39 K	0.3404	ppb	385.72	0.3404	1.00	
44 Ca	-6.799	ppb	22.49	-6.799	1.00	
51 V	0.03006	ppb	56.52	0.03006	1.00	
52 Cr	-0.06791	ppb	29.58	-0.06791	1.00	
55 Mn	-0.003013	ppb	187.09	-0.003013	1.00	
57 Fe	2.081	ppb	32.68	2.081	1.00	
59 Co	-0.00569	ppb	52.51	-0.00569	1.00	
60 Ni	0.01019	ppb	89.53	0.01019	1.00	
65 Cu	-0.1327	ppb	25.97	-0.1327	1.00	
66 Zn	-0.02679	ppb	304.18	-0.02679	1.00	
75 As	-0.2177	ppb	66.61	-0.2177	1.00	
82 Se	-0.1506	ppb	182.20	-0.1506	1.00	
95 Mo	0.02955	ppb	8.31	0.02955	1.00	
109 Ag	-0.006384	ppb	7.97	-0.006384	1.00	
111 Cd	0.05344	ppb	67.35	0.05344	1.00	
121 Sb	0.08967	ppb	16.39	0.08967	1.00	
137 Ba	-0.0177	ppb	20.78	-0.0177	1.00	
205 Tl	0.009955	ppb	109.49	0.009955	1.00	
208 Pb	-0.002155	ppb	105.01	-0.002155	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	988486.00	0.86	---	#VALUE!	80 - 120	
45 Sc	582573.75	2.56	---	#VALUE!	80 - 120	
72 Ge	181827.56	0.52	---	#VALUE!	80 - 120	
115 In	1400126.40	0.48	---	#VALUE!	80 - 120	
209 Bi	1349633.10	0.73	---	#VALUE!	80 - 120	

ISTD Ref File : ---

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Fail
ISTD: Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2415a.B\003CAL
Date Acquired:	Mar 24 2006 03:41 pm
Operator:	
Sample Name:	std-blk
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 24 2006 11:26 am
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	988199.50	A	16580.00	1.68
9	Be	3.33	P	3.33	99.99
23	Na	56710.00	P	10620.00	18.73
26	Mg	824.44	P	365.40	44.32
27	Al	7695.56	P	3062.00	39.79
39	K	187473.30	P	1880.00	1.00
44	Ca	1527.23	P	215.90	14.14
45	Sc	562292.19	P	586.20	0.10
51	V	884.61	P	109.60	12.39
52	Cr	2388.89	P	49.14	2.06
55	Mn	341.11	P	3.85	1.13
57	Fe	2701.11	P	177.70	6.58
59	Co	115.56	P	37.91	32.81
60	Ni	206.67	P	12.02	5.82
65	Cu	422.22	P	30.06	7.12
66	Zn	1413.33	P	56.96	4.03
72	Ge	180440.20	P	158.70	0.09
75	As	104.41	P	105.20	100.75
82	Se	36.00	P	14.34	39.83
95	Mo	115.56	P	33.72	29.18
109	Ag	52.22	P	6.94	13.29
111	Cd	289.93	P	46.06	15.89
115	In	1368410.00	A	7751.00	0.57
121	Sb	464.44	P	30.97	6.67
137	Ba	55.56	P	7.70	13.86
205	Tl	355.56	P	8.39	2.36
208	Pb	400.00	P	52.39	13.10
209	Bi	1333700.00	A	8509.00	0.64

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\004CALI.D\004CALI.D#
Date Acquired: Mar 24 2006 03:46 pm
Operator:
Sample Name: CS1,S2889
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 03:42 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	988584.31	A	14250.00	1.44
9 Be	326.67	P	21.86	6.69
23 Na	202917.80	P	2848.00	1.40
26 Mg	14972.22	P	65.52	0.44
27 Al	10315.56	P	1244.00	12.06
39 K	272992.19	P	890.10	0.33
44 Ca	4467.14	P	154.80	3.47
45 Sc	554806.63	P	3427.00	0.62
51 V	1905.36	P	245.40	12.88
52 Cr	3317.78	P	66.78	2.01
55 Mn	2034.44	P	56.80	2.79
57 Fe	5817.78	P	117.10	2.01
59 Co	1475.56	P	71.21	4.83
60 Ni	570.00	P	43.33	7.60
65 Cu	977.71	P	21.17	2.17
66 Zn	1907.70	P	62.03	3.25
72 Ge	178790.91	P	886.40	0.50
75 As	251.72	P	27.27	10.83
82 Se	55.78	P	9.44	16.92
95 Mo	477.78	P	37.47	7.84
109 Ag	1043.33	P	35.12	3.37
111 Cd	488.90	P	35.84	7.33
115 In	1341015.00	A	6675.00	0.50
121 Sb	1193.33	P	51.75	4.34
137 Ba	391.11	P	10.72	2.74
205 Tl	2348.89	P	38.63	1.64
208 Pb	3326.67	P	105.90	3.18
209 Bi	1312303.00	A	12540.00	0.96

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	988584.31	1.44	988199.56	100.0	80 - 120	

45	Sc	554806.63	0.62	562292.19	98.7	80 - 120
72	Ge	178790.89	0.50	180440.23	99.1	80 - 120
115	In	1341014.50	0.50	1368409.90	98.0	80 - 120
209	Bi	1312303.50	0.96	1333700.40	98.4	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\005CALI.D\005CALI.D#
Date Acquired: Mar 24 2006 03:52 pm
Operator:
Sample Name: CS2,S2890
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 03:48 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	983386.19	A	20930.00	2.13
9	Be	582.22	P	26.74	4.59
23	Na	341757.81	P	1515.00	0.44
26	Mg	28675.56	P	189.60	0.66
27	Al	10312.22	P	184.10	1.79
39	K	355686.69	P	1252.00	0.35
44	Ca	6701.30	P	215.50	3.22
45	Sc	554336.88	M	9431.00	1.70
51	V	2396.94	P	53.61	2.24
52	Cr	4232.22	P	26.94	0.64
55	Mn	3626.67	P	78.81	2.17
57	Fe	9024.44	P	150.20	1.66
59	Co	2808.89	P	123.60	4.40
60	Ni	833.33	P	49.10	5.89
65	Cu	1299.88	P	78.10	6.01
66	Zn	2240.97	P	59.66	2.66
72	Ge	178246.41	P	1375.00	0.77
75	As	486.77	P	125.60	25.80
82	Se	82.00	P	11.10	13.54
95	Mo	774.44	P	15.75	2.03
109	Ag	1952.22	P	67.52	3.46
111	Cd	746.83	P	54.02	7.23
115	In	1332685.00	A	9908.00	0.74
121	Sb	1911.11	P	45.01	2.36
137	Ba	764.44	P	25.24	3.30
205	Tl	4411.11	P	140.00	3.17
208	Pb	6561.11	P	36.57	0.56
209	Bi	1292847.00	A	16910.00	1.31

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	983386.19	2.13	988199.56	99.5	80 - 120	

45	Sc	554336.88	1.70	562292.19	98.6	80 - 120
72	Ge	178246.44	0.77	180440.23	98.8	80 - 120
115	In	1332685.30	0.74	1368409.90	97.4	80 - 120
209	Bi	1292846.90	1.31	1333700.40	96.9	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\006CALI.D\006CALI.D#
Date Acquired: Mar 24 2006 03:57 pm
Operator:
Sample Name: CS3,S2891
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 03:54 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	985103.31	A	8703.00	0.88
9 Be	1195.56	P	36.72	3.07
23 Na	688407.38	A	3988.00	0.58
26 Mg	57041.11	P	294.30	0.52
27 Al	13238.89	P	252.20	1.91
39 K	529102.19	P	763.10	0.14
44 Ca	11580.14	P	164.50	1.42
45 Sc	554111.13	P	3908.00	0.71
51 V	5051.42	P	449.10	8.89
52 Cr	6488.89	P	302.00	4.65
55 Mn	6868.89	P	209.40	3.05
57 Fe	15464.44	P	82.28	0.53
59 Co	5502.22	P	218.30	3.97
60 Ni	1495.56	P	40.05	2.68
65 Cu	2327.53	P	133.70	5.74
66 Zn	3024.16	P	25.46	0.84
72 Ge	180561.80	P	500.50	0.28
75 As	946.08	P	64.35	6.80
82 Se	125.78	P	16.52	13.13
95 Mo	1513.33	P	64.38	4.25
109 Ag	4044.44	P	156.90	3.88
111 Cd	1188.60	P	74.62	6.28
115 In	1334888.00	A	4909.00	0.37
121 Sb	3355.55	P	105.70	3.15
137 Ba	1280.00	P	47.26	3.69
205 Tl	8486.67	P	141.80	1.67
208 Pb	12502.22	P	158.10	1.26
209 Bi	1300466.00	A	6211.00	0.48

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	985103.31	0.88	988199.56	99.7	80 - 120	

45	Sc	554111.06	0.71	562292.19	98.5	80 - 120
72	Ge	180561.77	0.28	180440.23	100.1	80 - 120
115	In	1334887.50	0.37	1368409.90	97.6	80 - 120
209	Bi	1300466.30	0.48	1333700.40	97.5	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\007CALI.D\007CALI.D#
Date Acquired: Mar 24 2006 04:03 pm
Operator:
Sample Name: CS4,S2892
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 03:59 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	1013057.00	A	4024.00	0.40
9	Be	11861.11	P	195.00	1.64
23	Na	5832080.00	A	6041.00	0.10
26	Mg	566326.63	P	3938.00	0.70
27	Al	54172.22	P	546.60	1.01
39	K	3592013.00	A	32590.00	0.91
44	Ca	97328.51	P	309.90	0.32
45	Sc	552032.19	P	2550.00	0.46
51	V	43931.11	P	1029.00	2.34
52	Cr	41168.89	P	360.30	0.88
55	Mn	58915.55	P	361.00	0.61
57	Fe	128450.00	P	1593.00	1.24
59	Co	53722.22	P	576.60	1.07
60	Ni	12272.22	P	121.60	0.99
65	Cu	15954.22	P	391.80	2.46
66	Zn	11101.61	P	118.60	1.07
72	Ge	180956.00	P	1160.00	0.64
75	As	7441.71	P	66.56	0.89
82	Se	807.56	P	57.47	7.12
95	Mo	14624.44	P	99.13	0.68
109	Ag	39456.67	P	803.00	2.04
111	Cd	9067.72	P	165.20	1.82
115	In	1319021.00	A	9345.00	0.71
121	Sb	28952.22	P	399.00	1.38
137	Ba	11704.44	P	38.63	0.33
205	Tl	78612.22	P	2265.00	2.88
208	Pb	119622.20	P	721.70	0.60
209	Bi	1297106.00	A	16000.00	1.23

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1013056.60	0.40	988199.56	102.5	80 - 120	

45	Sc	552032.19	0.46	562292.19	98.2	80 - 120
72	Ge	180956.00	0.64	180440.23	100.3	80 - 120
115	In	1319021.30	0.71	1368409.90	96.4	80 - 120
209	Bi	1297106.00	1.23	1333700.40	97.3	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\008CALI.D\008CALI.D#
Date Acquired: Mar 24 2006 04:09 pm
Operator:
Sample Name: CS5,S2886
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 04:05 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	997164.81	A	7526.00	0.75
9	Be	117577.80	P	984.80	0.84
23	Na	55690040.00	A	264000.00	0.47
26	Mg	5606693.00	A	73650.00	1.31
27	Al	447697.69	P	891.30	0.20
39	K	32802080.00	A	398000.00	1.21
44	Ca	972650.31	A	8226.00	0.85
45	Sc	546950.00	P	9618.00	1.76
51	V	429694.59	P	3616.00	0.84
52	Cr	387310.00	P	2856.00	0.74
55	Mn	563601.13	P	5703.00	1.01
57	Fe	1277209.00	A	14640.00	1.15
59	Co	521696.59	P	6118.00	1.17
60	Ni	113996.70	P	552.30	0.48
65	Cu	140295.70	P	1531.00	1.09
66	Zn	87865.30	P	1053.00	1.20
72	Ge	178472.91	P	2302.00	1.29
75	As	71733.88	P	463.20	0.65
82	Se	7376.44	P	94.50	1.28
95	Mo	144456.70	P	655.50	0.45
109	Ag	374954.41	P	2785.00	0.74
111	Cd	82518.75	P	744.80	0.90
115	In	1276593.00	A	7314.00	0.57
121	Sb	262628.91	P	1502.00	0.57
137	Ba	113897.80	P	1607.00	1.41
205	Tl	814328.88	P	8399.00	1.03
208	Pb	1154651.00	P	12360.00	1.07
209	Bi	1220765.00	A	9341.00	0.77

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	997164.75	0.75	988199.56	100.9	80 - 120	

45	Sc	546950.00	1.76	562292.19	97.3	80 - 120
72	Ge	178472.89	1.29	180440.23	98.9	80 - 120
115	In	1276592.60	0.57	1368409.90	93.3	80 - 120
209	Bi	1220764.50	0.77	1333700.40	91.5	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\009CALI.D\009CALI.D#
Date Acquired: Mar 24 2006 04:14 pm
Operator:
Sample Name: CS6,S2887
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 04:10 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	969750.81	A	13270.00	1.37
9	Be	227935.50	P	2011.00	0.88
23	Na	109416300.00	A	1294000.00	1.18
26	Mg	10779680.00	A	214700.00	1.99
27	Al	897228.88	A	10640.00	1.19
39	K	63376860.00	A	47640.00	0.08
44	Ca	1918831.00	A	26230.00	1.37
45	Sc	547532.19	P	4418.00	0.81
51	V	878675.19	A	3703.00	0.42
52	Cr	760898.69	M	5958.00	0.78
55	Mn	1141159.00	A	20010.00	1.75
57	Fe	2482416.00	A	19690.00	0.79
59	Co	1047991.00	A	8862.00	0.85
60	Ni	221525.50	P	186.80	0.08
65	Cu	270644.00	P	960.70	0.35
66	Zn	165786.09	P	126.90	0.08
72	Ge	177688.00	P	688.10	0.39
75	As	141459.20	P	636.00	0.45
82	Se	14143.11	P	72.27	0.51
95	Mo	285186.69	P	476.60	0.17
109	Ag	727951.13	P	1026.00	0.14
111	Cd	158931.50	P	617.80	0.39
115	In	1239353.00	A	6776.00	0.55
121	Sb	505296.59	P	1214.00	0.24
137	Ba	224328.91	P	625.60	0.28
205	Tl	1646884.00	A	9703.00	0.59
208	Pb	2243062.00	A	8326.00	0.37
209	Bi	1188714.00	A	4321.00	0.36

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	969750.81	1.37	988199.56	98.1	80 - 120	

45	Sc	547532.19	0.81	562292.19	97.4	80 - 120
72	Ge	177688.00	0.39	180440.23	98.5	80 - 120
115	In	1239352.60	0.55	1368409.90	90.6	80 - 120
209	Bi	1188713.90	0.36	1333700.40	89.1	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449010 File : c2415010 Time : 24-MAR-2006 16:19
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2895

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	0.8730	0.4231	100.0	102.6	ug/L	3	10	
Antimony	0.1269	0.1074	100.0	105.1	ug/L	5	10	
Arsenic	0.2281	0.2052	100.0	102.8	ug/L	3	10	
Barium	0.0496	0.0462	100.0	102.3	ug/L	2	10	
Beryllium	0.0604	0.0600	100.0	102.0	ug/L	2	10	
Cadmium	0.3334	0.2329	100.0	103.3	ug/L	3	10	
Calcium	0.0098	0.0093	10000	10530	ug/L	5	10	
Chromium	1.4929	1.0962	100.0	101.9	ug/L	2	10	
Cobalt	1.5284	1.4811	100.0	100.6	ug/L	1	10	
Copper	0.5177	0.3977	100.0	103.6	ug/L	4	10	
Iron	0.0399	0.0366	10000	10410	ug/L	4	10	
Lead	0.4835	0.4753	100.0	100.7	ug/L	1	10	
Magnesium	0.0510	0.0521	10000	10500	ug/L	5	10	
Manganese	1.8374	1.5975	100.0	99.80	ug/L	0	10	
Molybdenum	0.4127	0.4099	100.0	101.9	ug/L	2	10	
Nickel	0.4149	0.3241	100.0	103.4	ug/L	3	10	
Potassium	0.4068	0.3080	10000	10540	ug/L	5	10	
Selenium	0.0287	0.0209	100.0	104.2	ug/L	4	10	
Silver	1.0912	1.0643	100.0	103.4	ug/L	3	10	
Sodium	0.5550	0.5247	10000	10460	ug/L	5	10	
Thallium	0.3301	0.3378	100.0	98.26	ug/L	-2	10	
Vanadium	1.2795	1.2206	100.0	99.18	ug/L	-1	10	
Zinc	0.5762	0.2498	100.0	105.3	ug/L	5	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	958842	-2.97
Scandium	562292	528272	-6.05
Germanium	180440	174083	-3.52
Indium	1368410	1218569	-10.95
Bismuth	1333700	1195887	-10.33

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449024 File : c2415024 Time : 24-MAR-2006 17:37
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.4129	150.0	151.0	ug/L	1	10	
Antimony	0.1269	0.0990	150.0	145.4	ug/L	-3	10	
Arsenic	0.2281	0.2000	150.0	150.4	ug/L	0	10	
Barium	0.0496	0.0446	150.0	148.2	ug/L	-1	10	
Beryllium	0.0604	0.0589	150.0	150.1	ug/L	0	10	
Cadmium	0.3334	0.2238	150.0	149.0	ug/L	-1	10	
Calcium	0.0098	0.0088	15000	14940	ug/L	0	10	
Chromium	1.4929	1.0549	150.0	147.3	ug/L	-2	10	
Cobalt	1.5284	1.4238	150.0	145.1	ug/L	-3	10	
Copper	0.5177	0.3830	150.0	149.8	ug/L	0	10	
Iron	0.0399	0.0346	15000	14780	ug/L	-1	10	
Lead	0.4835	0.4685	150.0	148.9	ug/L	-1	10	
Magnesium	0.0510	0.0498	15000	15070	ug/L	0	10	
Manganese	1.8374	1.5333	150.0	143.7	ug/L	-4	10	
Molybdenum	0.4127	0.3979	150.0	148.5	ug/L	-1	10	
Nickel	0.4149	0.3113	150.0	149.1	ug/L	-1	10	
Potassium	0.4068	0.2962	15000	15230	ug/L	2	10	
Selenium	0.0287	0.0204	150.0	152.6	ug/L	2	10	
Silver	1.0912	1.0203	150.0	148.6	ug/L	-1	10	
Sodium	0.5550	0.5002	15000	14960	ug/L	0	10	
Thallium	0.3301	0.3509	150.0	153.1	ug/L	2	10	
Vanadium	1.2795	1.1809	150.0	144.0	ug/L	-4	10	
Zinc	0.5762	0.2375	150.0	150.8	ug/L	1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	974542	-1.38
Scandium	562292	535254	-4.81
Germanium	180440	170147	-5.70
Indium	1368410	1196955	-12.53
Bismuth	1333700	1140941	-14.45

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449039 File : c2415039 Time : 24-MAR-2006 19:00
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.4015	150.0	146.8	ug/L	-2	10	
Antimony	0.1269	0.1007	150.0	147.8	ug/L	-1	10	
Arsenic	0.2281	0.2009	150.0	151.1	ug/L	1	10	
Barium	0.0496	0.0443	150.0	147.2	ug/L	-2	10	
Beryllium	0.0604	0.0584	150.0	149.1	ug/L	-1	10	
Cadmium	0.3334	0.2271	150.0	151.3	ug/L	1	10	
Calcium	0.0098	0.0089	15000	15250	ug/L	2	10	
Chromium	1.4929	1.0600	150.0	148.1	ug/L	-1	10	
Cobalt	1.5284	1.4254	150.0	145.3	ug/L	-3	10	
Copper	0.5177	0.3797	150.0	148.5	ug/L	-1	10	
Iron	0.0399	0.0347	15000	14850	ug/L	-1	10	
Lead	0.4835	0.4635	150.0	147.3	ug/L	-2	10	
Magnesium	0.0510	0.0503	15000	15200	ug/L	1	10	
Manganese	1.8374	1.5394	150.0	144.3	ug/L	-4	10	
Molybdenum	0.4127	0.4016	150.0	149.8	ug/L	0	10	
Nickel	0.4149	0.3094	150.0	148.1	ug/L	-1	10	
Potassium	0.4068	0.3002	15000	15440	ug/L	3	10	
Selenium	0.0287	0.0204	150.0	152.2	ug/L	1	10	
Silver	1.0912	1.0257	150.0	149.4	ug/L	0	10	
Sodium	0.5550	0.5050	15000	15100	ug/L	1	10	
Thallium	0.3301	0.3447	150.0	150.4	ug/L	0	10	
Vanadium	1.2795	1.1903	150.0	145.2	ug/L	-3	10	
Zinc	0.5762	0.2357	150.0	149.7	ug/L	0	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	953180	-3.54
Scandium	562292	509681	-9.36
Germanium	180440	163182	-9.56
Indium	1368410	1155967	-15.52
Bismuth	1333700	1119152	-16.09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449053 File : c2415053 Time : 24-MAR-2006 20:18
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.4036	150.0	147.6	ug/L	-2	10	
Antimony	0.1269	0.1014	150.0	149.0	ug/L	-1	10	
Arsenic	0.2281	0.1989	150.0	149.6	ug/L	0	10	
Barium	0.0496	0.0447	150.0	148.7	ug/L	-1	10	
Beryllium	0.0604	0.0579	150.0	147.6	ug/L	-2	10	
Cadmium	0.3334	0.2257	150.0	150.3	ug/L	0	10	
Calcium	0.0098	0.0090	15000	15330	ug/L	2	10	
Chromium	1.4929	1.0611	150.0	148.2	ug/L	-1	10	
Cobalt	1.5284	1.4204	150.0	144.8	ug/L	-3	10	
Copper	0.5177	0.3793	150.0	148.4	ug/L	-1	10	
Iron	0.0399	0.0351	15000	15010	ug/L	0	10	
Lead	0.4835	0.4670	150.0	148.4	ug/L	-1	10	
Magnesium	0.0510	0.0501	15000	15140	ug/L	1	10	
Manganese	1.8374	1.5439	150.0	144.7	ug/L	-4	10	
Molybdenum	0.4127	0.4017	150.0	149.9	ug/L	0	10	
Nickel	0.4149	0.3087	150.0	147.8	ug/L	-1	10	
Potassium	0.4068	0.2959	15000	15220	ug/L	1	10	
Selenium	0.0287	0.0201	150.0	150.3	ug/L	0	10	
Silver	1.0912	1.0297	150.0	150.0	ug/L	0	10	
Sodium	0.5550	0.5104	15000	15260	ug/L	2	10	
Thallium	0.3301	0.3480	150.0	151.9	ug/L	1	10	
Vanadium	1.2795	1.1920	150.0	145.4	ug/L	-3	10	
Zinc	0.5762	0.2370	150.0	150.5	ug/L	0	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	938741	-5.00
Scandium	562292	499396	-11.19
Germanium	180440	159991	-11.33
Indium	1368410	1139949	-16.70
Bismuth	1333700	1112291	-16.60

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449069 File : c2415069 Time : 24-MAR-2006 21:46
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3905	150.0	142.7	ug/L	-5	10	
Antimony	0.1269	0.1011	150.0	148.5	ug/L	-1	10	
Arsenic	0.2281	0.2001	150.0	150.5	ug/L	0	10	
Barium	0.0496	0.0442	150.0	147.0	ug/L	-2	10	
Beryllium	0.0604	0.0589	150.0	150.2	ug/L	0	10	
Cadmium	0.3334	0.2261	150.0	150.6	ug/L	0	10	
Calcium	0.0098	0.0089	15000	15210	ug/L	1	10	
Chromium	1.4929	1.0480	150.0	146.4	ug/L	-2	10	
Cobalt	1.5284	1.4064	150.0	143.3	ug/L	-4	10	
Copper	0.5177	0.3769	150.0	147.4	ug/L	-2	10	
Iron	0.0399	0.0347	15000	14840	ug/L	-1	10	
Lead	0.4835	0.4577	150.0	145.5	ug/L	-3	10	
Magnesium	0.0510	0.0493	15000	14910	ug/L	-1	10	
Manganese	1.8374	1.5318	150.0	143.6	ug/L	-4	10	
Molybdenum	0.4127	0.4024	150.0	150.2	ug/L	0	10	
Nickel	0.4149	0.3087	150.0	147.8	ug/L	-1	10	
Potassium	0.4068	0.2976	15000	15310	ug/L	2	10	
Selenium	0.0287	0.0204	150.0	152.2	ug/L	1	10	
Silver	1.0912	1.0257	150.0	149.4	ug/L	0	10	
Sodium	0.5550	0.4976	15000	14880	ug/L	-1	10	
Thallium	0.3301	0.3441	150.0	150.2	ug/L	0	10	
Vanadium	1.2795	1.1868	150.0	144.7	ug/L	-4	10	
Zinc	0.5762	0.2343	150.0	148.8	ug/L	-1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	867540	-12.21
Scandium	562292	477594	-15.06
Germanium	180440	152734	-15.35
Indium	1368410	1090823	-20.29
Bismuth	1333700	1069936	-19.78

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449083 File : c2415083 Time : 24-MAR-2006 23:04
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3890	150.0	142.2	ug/L	-5	10	
Antimony	0.1269	0.1006	150.0	147.7	ug/L	-2	10	
Arsenic	0.2281	0.2005	150.0	150.8	ug/L	1	10	
Barium	0.0496	0.0442	150.0	146.9	ug/L	-2	10	
Beryllium	0.0604	0.0578	150.0	147.5	ug/L	-2	10	
Cadmium	0.3334	0.2266	150.0	151.0	ug/L	1	10	
Calcium	0.0098	0.0088	15000	14980	ug/L	0	10	
Chromium	1.4929	1.0475	150.0	146.3	ug/L	-2	10	
Cobalt	1.5284	1.4041	150.0	143.1	ug/L	-5	10	
Copper	0.5177	0.3773	150.0	147.6	ug/L	-2	10	
Iron	0.0399	0.0349	15000	14930	ug/L	0	10	
Lead	0.4835	0.4601	150.0	146.2	ug/L	-3	10	
Magnesium	0.0510	0.0489	15000	14770	ug/L	-2	10	
Manganese	1.8374	1.5247	150.0	142.9	ug/L	-5	10	
Molybdenum	0.4127	0.4026	150.0	150.2	ug/L	0	10	
Nickel	0.4149	0.3090	150.0	147.9	ug/L	-1	10	
Potassium	0.4068	0.2930	15000	15070	ug/L	0	10	
Selenium	0.0287	0.0205	150.0	153.0	ug/L	2	10	
Silver	1.0912	1.0286	150.0	149.9	ug/L	0	10	
Sodium	0.5550	0.4899	15000	14650	ug/L	-2	10	
Thallium	0.3301	0.3434	150.0	149.9	ug/L	0	10	
Vanadium	1.2795	1.1846	150.0	144.5	ug/L	-4	10	
Zinc	0.5762	0.2341	150.0	148.7	ug/L	-1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	864072	-12.56
Scandium	562292	469597	-16.49
Germanium	180440	149631	-17.07
Indium	1368410	1083146	-20.85
Bismuth	1333700	1052352	-21.10

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449097 File : c2415097 Time : 25-MAR-2006 00:22
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3725	150.0	136.1	ug/L	-9	10	
Antimony	0.1269	0.0981	150.0	144.0	ug/L	-4	10	
Arsenic	0.2281	0.1963	150.0	147.7	ug/L	-2	10	
Barium	0.0496	0.0433	150.0	144.0	ug/L	-4	10	
Beryllium	0.0604	0.0564	150.0	143.9	ug/L	-4	10	
Cadmium	0.3334	0.2281	150.0	152.0	ug/L	1	10	
Calcium	0.0098	0.0087	15000	14830	ug/L	-1	10	
Chromium	1.4929	1.0532	150.0	147.1	ug/L	-2	10	
Cobalt	1.5284	1.4082	150.0	143.5	ug/L	-4	10	
Copper	0.5177	0.3704	150.0	144.9	ug/L	-3	10	
Iron	0.0399	0.0350	15000	14960	ug/L	0	10	
Lead	0.4835	0.4510	150.0	143.3	ug/L	-4	10	
Magnesium	0.0510	0.0470	15000	14210	ug/L	-5	10	
Manganese	1.8374	1.5455	150.0	144.9	ug/L	-3	10	
Molybdenum	0.4127	0.3955	150.0	147.6	ug/L	-2	10	
Nickel	0.4149	0.3040	150.0	145.5	ug/L	-3	10	
Potassium	0.4068	0.2874	15000	14780	ug/L	-1	10	
Selenium	0.0287	0.0202	150.0	150.8	ug/L	1	10	
Silver	1.0912	1.0216	150.0	148.8	ug/L	-1	10	
Sodium	0.5550	0.4786	15000	14310	ug/L	-5	10	
Thallium	0.3301	0.3353	150.0	146.3	ug/L	-2	10	
Vanadium	1.2795	1.1797	150.0	143.9	ug/L	-4	10	
Zinc	0.5762	0.2328	150.0	147.8	ug/L	-1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	850311	-13.95
Scandium	562292	475066	-15.51
Germanium	180440	150588	-16.54
Indium	1368410	1119011	-18.23
Bismuth	1333700	1086373	-18.54

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449107 File : c2415107 Time : 25-MAR-2006 01:18
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3939	150.0	144.0	ug/L	-4	10	
Antimony	0.1269	0.1003	150.0	147.3	ug/L	-2	10	
Arsenic	0.2281	0.1975	150.0	148.5	ug/L	-1	10	
Barium	0.0496	0.0443	150.0	147.4	ug/L	-2	10	
Beryllium	0.0604	0.0568	150.0	144.8	ug/L	-3	10	
Cadmium	0.3334	0.2281	150.0	151.9	ug/L	1	10	
Calcium	0.0098	0.0089	15000	15180	ug/L	1	10	
Chromium	1.4929	1.0646	150.0	148.7	ug/L	-1	10	
Cobalt	1.5284	1.4165	150.0	144.4	ug/L	-4	10	
Copper	0.5177	0.3741	150.0	146.3	ug/L	-2	10	
Iron	0.0399	0.0350	15000	14970	ug/L	0	10	
Lead	0.4835	0.4613	150.0	146.6	ug/L	-2	10	
Magnesium	0.0510	0.0486	15000	14680	ug/L	-2	10	
Manganese	1.8374	1.5548	150.0	145.7	ug/L	-3	10	
Molybdenum	0.4127	0.4007	150.0	149.5	ug/L	0	10	
Nickel	0.4149	0.3090	150.0	147.9	ug/L	-1	10	
Potassium	0.4068	0.2900	15000	14910	ug/L	-1	10	
Selenium	0.0287	0.0205	150.0	153.2	ug/L	2	10	
Silver	1.0912	1.0347	150.0	150.7	ug/L	0	10	
Sodium	0.5550	0.4900	15000	14650	ug/L	-2	10	
Thallium	0.3301	0.3535	150.0	154.3	ug/L	3	10	
Vanadium	1.2795	1.1929	150.0	145.5	ug/L	-3	10	
Zinc	0.5762	0.2366	150.0	150.3	ug/L	0	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	839407	-15.06
Scandium	562292	458026	-18.54
Germanium	180440	146831	-18.63
Indium	1368410	1077183	-21.28
Bismuth	1333700	1042410	-21.84

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449121 File : c2415121 Time : 25-MAR-2006 02:35
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3883	150.0	141.9	ug/L	-5	10	
Antimony	0.1269	0.1005	150.0	147.6	ug/L	-2	10	
Arsenic	0.2281	0.2013	150.0	151.4	ug/L	1	10	
Barium	0.0496	0.0444	150.0	147.6	ug/L	-2	10	
Beryllium	0.0604	0.0572	150.0	145.8	ug/L	-3	10	
Cadmium	0.3334	0.2289	150.0	152.4	ug/L	2	10	
Calcium	0.0098	0.0090	15000	15330	ug/L	2	10	
Chromium	1.4929	1.0671	150.0	149.0	ug/L	-1	10	
Cobalt	1.5284	1.4221	150.0	144.9	ug/L	-3	10	
Copper	0.5177	0.3755	150.0	146.9	ug/L	-2	10	
Iron	0.0399	0.0353	15000	15110	ug/L	1	10	
Lead	0.4835	0.4629	150.0	147.1	ug/L	-2	10	
Magnesium	0.0510	0.0490	15000	14810	ug/L	-1	10	
Manganese	1.8374	1.5638	150.0	146.6	ug/L	-2	10	
Molybdenum	0.4127	0.4017	150.0	149.9	ug/L	0	10	
Nickel	0.4149	0.3077	150.0	147.3	ug/L	-2	10	
Potassium	0.4068	0.2977	15000	15310	ug/L	2	10	
Selenium	0.0287	0.0208	150.0	155.6	ug/L	4	10	
Silver	1.0912	1.0362	150.0	151.0	ug/L	1	10	
Sodium	0.5550	0.4969	15000	14860	ug/L	-1	10	
Thallium	0.3301	0.3483	150.0	152.0	ug/L	1	10	
Vanadium	1.2795	1.2049	150.0	147.0	ug/L	-2	10	
Zinc	0.5762	0.2378	150.0	151.1	ug/L	1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	806356	-18.40
Scandium	562292	440073	-21.74
Germanium	180440	142136	-21.23
Indium	1368410	1039855	-24.01
Bismuth	1333700	1008839	-24.36

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449133 File : c2415133 Time : 25-MAR-2006 03:42
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.4002	150.0	146.3	ug/L	-2	10	
Antimony	0.1269	0.1023	150.0	150.3	ug/L	0	10	
Arsenic	0.2281	0.2028	150.0	152.5	ug/L	2	10	
Barium	0.0496	0.0449	150.0	149.4	ug/L	0	10	
Beryllium	0.0604	0.0581	150.0	148.2	ug/L	-1	10	
Cadmium	0.3334	0.2332	150.0	155.3	ug/L	4	10	
Calcium	0.0098	0.0091	15000	15600	ug/L	4	10	
Chromium	1.4929	1.0854	150.0	151.6	ug/L	1	10	
Cobalt	1.5284	1.4355	150.0	146.3	ug/L	-2	10	
Copper	0.5177	0.3813	150.0	149.2	ug/L	-1	10	
Iron	0.0399	0.0356	15000	15210	ug/L	1	10	
Lead	0.4835	0.4738	150.0	150.6	ug/L	0	10	
Magnesium	0.0510	0.0499	15000	15090	ug/L	1	10	
Manganese	1.8374	1.5904	150.0	149.1	ug/L	-1	10	
Molybdenum	0.4127	0.4100	150.0	153.0	ug/L	2	10	
Nickel	0.4149	0.3117	150.0	149.2	ug/L	-1	10	
Potassium	0.4068	0.2973	15000	15290	ug/L	2	10	
Selenium	0.0287	0.0209	150.0	156.3	ug/L	4	10	
Silver	1.0912	1.0499	150.0	153.0	ug/L	2	10	
Sodium	0.5550	0.4993	15000	14930	ug/L	0	10	
Thallium	0.3301	0.3542	150.0	154.6	ug/L	3	10	
Vanadium	1.2795	1.2217	150.0	149.0	ug/L	-1	10	
Zinc	0.5762	0.2396	150.0	152.2	ug/L	1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	813402	-17.69
Scandium	562292	443206	-21.18
Germanium	180440	140547	-22.11
Indium	1368410	1028681	-24.83
Bismuth	1333700	979894	-26.53

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449148 File : c2415148 Time : 25-MAR-2006 05:06
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3917	150.0	143.2	ug/L	-5	10	
Antimony	0.1269	0.0989	150.0	145.3	ug/L	-3	10	
Arsenic	0.2281	0.1986	150.0	149.4	ug/L	0	10	
Barium	0.0496	0.0436	150.0	144.8	ug/L	-3	10	
Beryllium	0.0604	0.0570	150.0	145.3	ug/L	-3	10	
Cadmium	0.3334	0.2187	150.0	145.6	ug/L	-3	10	
Calcium	0.0098	0.0089	15000	15150	ug/L	1	10	
Chromium	1.4929	1.0417	150.0	145.5	ug/L	-3	10	
Cobalt	1.5284	1.3878	150.0	141.4	ug/L	-6	10	
Copper	0.5177	0.3702	150.0	144.8	ug/L	-3	10	
Iron	0.0399	0.0343	15000	14670	ug/L	-2	10	
Lead	0.4835	0.4544	150.0	144.4	ug/L	-4	10	
Magnesium	0.0510	0.0482	15000	14580	ug/L	-3	10	
Manganese	1.8374	1.5022	150.0	140.8	ug/L	-6	10	
Molybdenum	0.4127	0.3937	150.0	146.9	ug/L	-2	10	
Nickel	0.4149	0.3045	150.0	145.8	ug/L	-3	10	
Potassium	0.4068	0.2967	15000	15260	ug/L	2	10	
Selenium	0.0287	0.0202	150.0	151.2	ug/L	1	10	
Silver	1.0912	1.0035	150.0	146.2	ug/L	-3	10	
Sodium	0.5550	0.4853	15000	14510	ug/L	-3	10	
Thallium	0.3301	0.3384	150.0	147.7	ug/L	-2	10	
Vanadium	1.2795	1.1779	150.0	143.7	ug/L	-4	10	
Zinc	0.5762	0.2275	150.0	144.4	ug/L	-4	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	898686	-9.06
Scandium	562292	474239	-15.66
Germanium	180440	147941	-18.01
Indium	1368410	1054434	-22.94
Bismuth	1333700	995910	-25.33

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449159 File : c2415159 Time : 25-MAR-2006 06:07
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3671	150.0	134.1	ug/L	-11	10	c- ***
Antimony	0.1269	0.0996	150.0	146.3	ug/L	-2	10	
Arsenic	0.2281	0.1981	150.0	149.0	ug/L	-1	10	
Barium	0.0496	0.0438	150.0	145.5	ug/L	-3	10	
Beryllium	0.0604	0.0577	150.0	147.1	ug/L	-2	10	
Cadmium	0.3334	0.2272	150.0	151.3	ug/L	1	10	
Calcium	0.0098	0.0086	15000	14640	ug/L	-2	10	
Chromium	1.4929	1.0198	150.0	142.4	ug/L	-5	10	
Cobalt	1.5284	1.3679	150.0	139.4	ug/L	-7	10	
Copper	0.5177	0.3644	150.0	142.5	ug/L	-5	10	
Iron	0.0399	0.0340	15000	14550	ug/L	-3	10	
Lead	0.4835	0.4497	150.0	142.9	ug/L	-5	10	
Magnesium	0.0510	0.0461	15000	13920	ug/L	-7	10	
Manganese	1.8374	1.5032	150.0	140.9	ug/L	-6	10	
Molybdenum	0.4127	0.4016	150.0	149.9	ug/L	0	10	
Nickel	0.4149	0.2968	150.0	142.1	ug/L	-5	10	
Potassium	0.4068	0.2839	15000	14600	ug/L	-3	10	
Selenium	0.0287	0.0204	150.0	152.9	ug/L	2	10	
Silver	1.0912	1.0218	150.0	148.9	ug/L	-1	10	
Sodium	0.5550	0.4623	15000	13820	ug/L	-8	10	
Thallium	0.3301	0.3353	150.0	146.3	ug/L	-2	10	
Vanadium	1.2795	1.1558	150.0	141.0	ug/L	-6	10	
Zinc	0.5762	0.2281	150.0	144.8	ug/L	-3	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	836473	-15.35
Scandium	562292	493671	-12.20
Germanium	180440	155900	-13.60
Indium	1368410	1140911	-16.63
Bismuth	1333700	1105121	-17.14

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449174 File : c2415174 Time : 25-MAR-2006 07:30
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3870	150.0	141.5	ug/L	-6	10	
Antimony	0.1269	0.0985	150.0	144.7	ug/L	-4	10	
Arsenic	0.2281	0.1978	150.0	148.8	ug/L	-1	10	
Barium	0.0496	0.0429	150.0	142.5	ug/L	-5	10	
Beryllium	0.0604	0.0570	150.0	145.5	ug/L	-3	10	
Cadmium	0.3334	0.2174	150.0	144.8	ug/L	-3	10	
Calcium	0.0098	0.0086	15000	14760	ug/L	-2	10	
Chromium	1.4929	1.0685	150.0	149.2	ug/L	-1	10	
Cobalt	1.5284	1.4105	150.0	143.7	ug/L	-4	10	
Copper	0.5177	0.3731	150.0	145.9	ug/L	-3	10	
Iron	0.0399	0.0347	15000	14830	ug/L	-1	10	
Lead	0.4835	0.4532	150.0	144.1	ug/L	-4	10	
Magnesium	0.0510	0.0478	15000	14460	ug/L	-4	10	
Manganese	1.8374	1.5356	150.0	143.9	ug/L	-4	10	
Molybdenum	0.4127	0.3941	150.0	147.1	ug/L	-2	10	
Nickel	0.4149	0.3076	150.0	147.3	ug/L	-2	10	
Potassium	0.4068	0.2871	15000	14760	ug/L	-2	10	
Selenium	0.0287	0.0200	150.0	149.5	ug/L	0	10	
Silver	1.0912	0.9902	150.0	144.3	ug/L	-4	10	
Sodium	0.5550	0.4764	15000	14240	ug/L	-5	10	
Thallium	0.3301	0.3207	150.0	140.0	ug/L	-7	10	
Vanadium	1.2795	1.2039	150.0	146.8	ug/L	-2	10	
Zinc	0.5762	0.2293	150.0	145.6	ug/L	-3	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	892339	-9.70
Scandium	562292	468084	-16.75
Germanium	180440	138839	-23.06
Indium	1368410	979740	-28.40
Bismuth	1333700	906100	-32.06

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449185 File : c2415185 Time : 25-MAR-2006 08:33
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3405	150.0	124.3	ug/L	**-17**	10	c- i+ ***
Antimony	0.1269	0.0964	150.0	141.6	ug/L	-6	10	
Arsenic	0.2281	0.1995	150.0	150.0	ug/L	0	10	
Barium	0.0496	0.0409	150.0	135.8	ug/L	-9	10	
Beryllium	0.0604	0.0601	150.0	153.4	ug/L	2	10	
Cadmium	0.3334	0.2280	150.0	151.9	ug/L	1	10	
Calcium	0.0098	0.0086	15000	14630	ug/L	-2	10	i+
Chromium	1.4929	1.1388	150.0	159.1	ug/L	6	10	
Cobalt	1.5284	1.4081	150.0	143.5	ug/L	-4	10	
Copper	0.5177	0.3658	150.0	143.1	ug/L	-5	10	
Iron	0.0399	0.0347	15000	14830	ug/L	-1	10	
Lead	0.4835	0.4466	150.0	141.9	ug/L	-5	10	
Magnesium	0.0510	0.0410	15000	12400	ug/L	**-17**	10	c- i+ ***
Manganese	1.8374	1.6208	150.0	151.9	ug/L	1	10	
Molybdenum	0.4127	0.4100	150.0	153.0	ug/L	2	10	
Nickel	0.4149	0.2971	150.0	142.2	ug/L	-5	10	
Potassium	0.4068	0.2821	15000	14510	ug/L	-3	10	i+
Selenium	0.0287	0.0207	150.0	154.7	ug/L	3	10	
Silver	1.0912	1.0584	150.0	154.2	ug/L	3	10	
Sodium	0.5550	0.3972	15000	11880	ug/L	**-21**	10	c- i+ ***
Thallium	0.3301	0.3256	150.0	142.1	ug/L	-5	10	
Vanadium	1.2795	1.3269	150.0	161.9	ug/L	8	10	
Zinc	0.5762	0.2281	150.0	144.8	ug/L	-3	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	1069484	8.23
Scandium	562292	756141	**34.47 ***
Germanium	180440	185899	3.03
Indium	1368410	1355459	-0.95
Bismuth	1333700	1186577	-11.03

+=high bias -=low bias c=CCV i=ISTD failure

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449012 File : c2415012 Time : 24-MAR-2006 16:30
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	0.2605	0.2500	0.03394	ug/L	ib ***
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	[0.04645]	0.2500	0.04566	ug/L	!ib
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.02192]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.07448]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	[0.2087]	1.000	0.09577	ug/L	!ib

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	969137	-1.93
Scandium	562292	523398	-6.92
Germanium	180440	172708	-4.29
Indium	1368410	1267032	-7.41
Bismuth	1333700	1243505	-6.76

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449041 File : c2415041 Time : 24-MAR-2006 19:11
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1722]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	[0.04493]	0.5000	0.04426	ug/L	!ib
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.08621]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	942974	-4.58
Scandium	562292	497013	-11.61
Germanium	180440	160729	-10.92
Indium	1368410	1193739	-12.76
Bismuth	1333700	1163252	-12.78

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449055 File : c2415055 Time : 24-MAR-2006 20:29
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1501]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.03973]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	948372	-4.03
Scandium	562292	501028	-10.90
Germanium	180440	161896	-10.28
Indium	1368410	1226800	-10.35
Bismuth	1333700	1216616	-8.78

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449071 File : c2415071 Time : 24-MAR-2006 21:57
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1124]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.2096]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2627]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1469]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	892991	-9.63
Scandium	562292	474552	-15.60
Germanium	180440	152380	-15.55
Indium	1368410	1132829	-17.22
Bismuth	1333700	1123713	-15.74

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449085 File : c2415085 Time : 24-MAR-2006 23:15
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.09912]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1488]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1119]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	872491	-11.71
Scandium	562292	466362	-17.06
Germanium	180440	149948	-16.90
Indium	1368410	1134348	-17.10
Bismuth	1333700	1121464	-15.91

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449099 File : c2415099 Time : 25-MAR-2006 00:34
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1144]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.05505]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	839745	-15.02
Scandium	562292	456637	-18.79
Germanium	180440	148479	-17.71
Indium	1368410	1142762	-16.49
Bismuth	1333700	1144155	-14.21

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449109 File : c2415109 Time : 25-MAR-2006 01:29
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1195]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1052]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.007220]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.01906]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2311]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	841646	-14.83
Scandium	562292	456716	-18.78
Germanium	180440	146645	-18.73
Indium	1368410	1137654	-16.86
Bismuth	1333700	1126462	-15.54

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449123 File : c2415123 Time : 25-MAR-2006 02:46
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1115]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.008805]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.03841]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1190]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	830886	-15.92
Scandium	562292	449947	-19.98
Germanium	180440	144623	-19.85
Indium	1368410	1113418	-18.63
Bismuth	1333700	1102799	-17.31

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449135 File : c2415135 Time : 25-MAR-2006 03:53
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1473]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1323]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01136]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.06042]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2067]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.07285]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	841360	-14.86
Scandium	562292	445097	-20.84
Germanium	180440	143634	-20.40
Indium	1368410	1086631	-20.59
Bismuth	1333700	1083950	-18.73

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449150 File : c2415150 Time : 25-MAR-2006 05:17
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.07915]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.007527]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.03594]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.01483]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.05427]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	928026	-6.09
Scandium	562292	470981	-16.24
Germanium	180440	147653	-18.17
Indium	1368410	1106829	-19.12
Bismuth	1333700	1054733	-20.92

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449161 File : c2415161 Time : 25-MAR-2006 06:18
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.08556]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.01170]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.009293]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.02352]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.04556]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	838678	-15.13
Scandium	562292	505026	-10.18
Germanium	180440	161662	-10.41
Indium	1368410	1282761	-6.26
Bismuth	1333700	1249274	-6.33

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449176 File : c2415176 Time : 25-MAR-2006 07:41
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.09663]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.2578]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.008511]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.1183]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.04145]	0.2500	0.03982	ug/L	!ib
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2884]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.04804]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	877911	-11.16
Scandium	562292	451821	-19.65
Germanium	180440	137616	-23.73
Indium	1368410	1006582	-26.44
Bismuth	1333700	945762	-29.09

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449187 File : c2415187 Time : 25-MAR-2006 08:44
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.07775]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.006321]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.02567]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.03935]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	867621	-12.20
Scandium	562292	468086	-16.75
Germanium	180440	141351	-21.66
Indium	1368410	1068398	-21.92
Bismuth	1333700	1040296	-22.00

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CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449013 File : c2415013 Time : 24-MAR-2006 16:36
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.628	0.2500	ug/L	
Arsenic	0.6180	0.5000	ug/L	
Barium	0.9755	0.2500	ug/L	
Beryllium	[0.02031]	0.2500	ug/L	
Cadmium	[0.2247]	0.2500	ug/L	
Chromium	1.583	0.5000	ug/L	
Cobalt	2.963	0.2500	ug/L	
Copper	1.898	0.5000	ug/L	
Lead	1.286	0.2500	ug/L	
Manganese	1.091	0.2500	ug/L	
Nickel	1.635	0.2500	ug/L	
Selenium	[0.3064]	0.5000	ug/L	
Silver	[0.1484]	0.2500	ug/L	
Thallium	[0.1047]	0.5000	ug/L	
Vanadium	[0.1847]	1.000	ug/L	
Zinc	2.174	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	85760	ug/L	86
Calcium	300000	291300	ug/L	97
Iron	250000	262300	ug/L	105
Magnesium	100000	90810	ug/L	91
Molybdenum	2000	2215	ug/L	111
Potassium	100000	91870	ug/L	92
Sodium	250000	229400	ug/L	92

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	779542	-21.11
Scandium	562292	491304	-12.62
Germanium	180440	146225	-18.96
Indium	1368410	1095335	-19.96
Bismuth	1333700	938748	-29.61

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449014 File : c2415014 Time : 24-MAR-2006 16:41
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	81420	ug/L	-19		
Arsenic	100.0	95.70	ug/L	-4	20	
Cadmium	100.0	91.22	ug/L	-9	20	
Calcium	300000	290600	ug/L	-3		
Chromium	200.0	217.6	ug/L	9	20	
Cobalt	200.0	209.5	ug/L	5	20	
Copper	200.0	181.4	ug/L	-9	20	
Iron	250000	263500	ug/L	5		
Magnesium	100000	86490	ug/L	-14		
Manganese	200.0	222.3	ug/L	11	20	
Molybdenum	2000	2189	ug/L	9		
Nickel	200.0	192.6	ug/L	-4	20	
Potassium	100000	89750	ug/L	-10		
Selenium	100.0	87.46	ug/L	-13	20	
Silver	50.00	47.12	ug/L	-6	20	
Sodium	250000	220400	ug/L	-12		
Vanadium	200.0	227.4	ug/L	14	20	
Zinc	100.0	90.57	ug/L	-9	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	491567	-12.58
Germanium	180440	144551	-19.89

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449056 File : c2415056 Time : 24-MAR-2006 20:34
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.333	0.2500	ug/L	
Arsenic	0.7648	0.5000	ug/L	
Barium	0.9834	0.2500	ug/L	
Beryllium	[0.01236]	0.2500	ug/L	
Cadmium	[0.1918]	0.2500	ug/L	
Chromium	1.467	0.5000	ug/L	
Cobalt	2.837	0.2500	ug/L	
Copper	1.800	0.5000	ug/L	
Lead	1.307	0.2500	ug/L	
Manganese	1.013	0.2500	ug/L	
Nickel	1.565	0.2500	ug/L	
Selenium	[0.1911]	0.5000	ug/L	
Silver	[0.1340]	0.2500	ug/L	
Thallium	[0.06724]	0.5000	ug/L	
Vanadium	[0.1649]	1.000	ug/L	
Zinc	2.011	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	85760	ug/L	86
Calcium	300000	284700	ug/L	95
Iron	250000	247600	ug/L	99
Magnesium	100000	90640	ug/L	91
Molybdenum	2000	2176	ug/L	109
Potassium	100000	92900	ug/L	93
Sodium	250000	226200	ug/L	90

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	754441	-23.65
Scandium	562292	444889	-20.88
Germanium	180440	133804	-25.85
Indium	1368410	996236	-27.20
Bismuth	1333700	855786	-35.83

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449057 File : c2415057 Time : 24-MAR-2006 20:40
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	81230	ug/L	-19		
Arsenic	100.0	91.39	ug/L	-9	20	
Cadmium	100.0	86.66	ug/L	-13	20	
Calcium	300000	279400	ug/L	-7		
Chromium	200.0	200.7	ug/L	0	20	
Cobalt	200.0	187.8	ug/L	-6	20	
Copper	200.0	171.1	ug/L	-14	20	
Iron	250000	244000	ug/L	-2		
Magnesium	100000	85230	ug/L	-15		
Manganese	200.0	206.9	ug/L	3	20	
Molybdenum	2000	2126	ug/L	6		
Nickel	200.0	181.6	ug/L	-9	20	
Potassium	100000	88390	ug/L	-12		
Selenium	100.0	85.02	ug/L	-15	20	
Silver	50.00	44.61	ug/L	-11	20	
Sodium	250000	216700	ug/L	-13		
Vanadium	200.0	201.6	ug/L	1	20	
Zinc	100.0	85.22	ug/L	-15	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	446714	-20.55
Germanium	180440	133306	-26.12

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449137 File : c2415137 Time : 25-MAR-2006 04:05
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.347	0.2500	ug/L	
Arsenic	[0.3882]	0.5000	ug/L	
Barium	1.062	0.2500	ug/L	
Beryllium	[0.01946]	0.2500	ug/L	
Cadmium	[0.08500]	0.2500	ug/L	
Chromium	1.613	0.5000	ug/L	
Cobalt	2.924	0.2500	ug/L	
Copper	1.893	0.5000	ug/L	
Lead	1.282	0.2500	ug/L	
Manganese	1.061	0.2500	ug/L	
Nickel	1.579	0.2500	ug/L	
Selenium	[0.2680]	0.5000	ug/L	
Silver	[0.1405]	0.2500	ug/L	
Thallium	[0.1109]	0.5000	ug/L	
Vanadium	[0.2904]	1.000	ug/L	
Zinc	2.062	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	84650	ug/L	85
Calcium	300000	290700	ug/L	97
Iron	250000	248700	ug/L	99
Magnesium	100000	89140	ug/L	89
Molybdenum	2000	2186	ug/L	109
Potassium	100000	93300	ug/L	93
Sodium	250000	223400	ug/L	89

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	674836	-31.71
Scandium	562292	406723	-27.67
Germanium	180440	121976	-32.40
Indium	1368410	887703	-35.13
Bismuth	1333700	772371	-42.09

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449138 File : c2415138 Time : 25-MAR-2006 04:10
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	83500	ug/L	-17		
Arsenic	100.0	93.87	ug/L	-6	20	
Cadmium	100.0	86.67	ug/L	-13	20	
Calcium	300000	289100	ug/L	-4		
Chromium	200.0	203.9	ug/L	2	20	
Cobalt	200.0	190.0	ug/L	-5	20	
Copper	200.0	174.2	ug/L	-13	20	
Iron	250000	246800	ug/L	-1		
Magnesium	100000	87450	ug/L	-13		
Manganese	200.0	203.0	ug/L	2	20	
Molybdenum	2000	2178	ug/L	9		
Nickel	200.0	183.6	ug/L	-8	20	
Potassium	100000	93050	ug/L	-7		
Selenium	100.0	87.45	ug/L	-13	20	
Silver	50.00	44.81	ug/L	-10	20	
Sodium	250000	221000	ug/L	-12		
Vanadium	200.0	205.7	ug/L	3	20	
Zinc	100.0	88.10	ug/L	-12	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	397591	-29.29
Germanium	180440	118801	-34.16

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449162 File : c2415162 Time : 25-MAR-2006 06:24
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.433	0.2500	ug/L	
Arsenic	[0.4828]	0.5000	ug/L	
Barium	1.070	0.2500	ug/L	
Beryllium	[0.005177]	0.2500	ug/L	
Cadmium	[0.1791]	0.2500	ug/L	
Chromium	1.576	0.5000	ug/L	
Cobalt	2.864	0.2500	ug/L	
Copper	1.852	0.5000	ug/L	
Lead	1.309	0.2500	ug/L	
Manganese	1.049	0.2500	ug/L	
Nickel	1.557	0.2500	ug/L	
Selenium	[0]	0.5000	ug/L	
Silver	[0.1414]	0.2500	ug/L	
Thallium	[0.07787]	0.5000	ug/L	
Vanadium	[0.2272]	1.000	ug/L	
Zinc	1.947	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	89740	ug/L	90
Calcium	300000	301200	ug/L	100
Iron	250000	249800	ug/L	100
Magnesium	100000	93590	ug/L	94
Molybdenum	2000	2269	ug/L	113
Potassium	100000	98320	ug/L	98
Sodium	250000	231700	ug/L	93

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	699133	-29.25
Scandium	562292	407378	-27.55
Germanium	180440	123996	-31.28
Indium	1368410	865103	-36.78
Bismuth	1333700	757128	-43.23

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449163 File : c2415163 Time : 25-MAR-2006 06:29
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	88210	ug/L	-12		
Arsenic	100.0	96.77	ug/L	-3	20	
Cadmium	100.0	87.72	ug/L	-12	20	
Calcium	300000	300000	ug/L	0		
Chromium	200.0	208.2	ug/L	4	20	
Cobalt	200.0	196.1	ug/L	-2	20	
Copper	200.0	178.7	ug/L	-11	20	
Iron	250000	252100	ug/L	1		
Magnesium	100000	92600	ug/L	-7		
Manganese	200.0	203.3	ug/L	2	20	
Molybdenum	2000	2250	ug/L	13		
Nickel	200.0	188.9	ug/L	-6	20	
Potassium	100000	97250	ug/L	-3		
Selenium	100.0	90.51	ug/L	-9	20	
Silver	50.00	45.85	ug/L	-8	20	
Sodium	250000	229300	ug/L	-8		
Vanadium	200.0	210.6	ug/L	5	20	
Zinc	100.0	89.56	ug/L	-10	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	392361	-30.22
Germanium	180440	117744	-34.75

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449188 File : c2415188 Time : 25-MAR-2006 08:49
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.452	0.2500	ug/L	
Arsenic	[0.4067]	0.5000	ug/L	
Barium	0.9738	0.2500	ug/L	
Beryllium	[0.01078]	0.2500	ug/L	
Cadmium	[0.09223]	0.2500	ug/L	
Chromium	6.008	0.5000	ug/L	
Cobalt	2.928	0.2500	ug/L	
Copper	1.744	0.5000	ug/L	
Lead	1.288	0.2500	ug/L	
Manganese	1.046	0.2500	ug/L	
Nickel	1.640	0.2500	ug/L	
Selenium	[0.3177]	0.5000	ug/L	
Silver	[0.1392]	0.2500	ug/L	
Thallium	[0.06780]	0.5000	ug/L	
Vanadium	1.467	1.000	ug/L	
Zinc	2.024	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	88210	ug/L	88
Calcium	300000	299100	ug/L	100
Iron	250000	253400	ug/L	101
Magnesium	100000	92340	ug/L	92
Molybdenum	2000	2198	ug/L	110
Potassium	100000	96490	ug/L	96
Sodium	250000	231900	ug/L	93

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	692065	-29.97
Scandium	562292	386620	-31.24
Germanium	180440	109304	-39.42
Indium	1368410	745623	-45.51
Bismuth	1333700	635742	-52.33

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449189 File : c2415189 Time : 25-MAR-2006 08:55
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	83800	ug/L	-16		
Arsenic	100.0	92.87	ug/L	-7	20	
Cadmium	100.0	83.91	ug/L	-16	20	
Calcium	300000	288700	ug/L	-4		
Chromium	200.0	199.4	ug/L	0	20	
Cobalt	200.0	185.5	ug/L	-7	20	
Copper	200.0	172.5	ug/L	-14	20	
Iron	250000	237100	ug/L	-5		
Magnesium	100000	88510	ug/L	-11		
Manganese	200.0	192.1	ug/L	-4	20	
Molybdenum	2000	2179	ug/L	9		
Nickel	200.0	181.3	ug/L	-9	20	
Potassium	100000	95070	ug/L	-5		
Selenium	100.0	86.14	ug/L	-14	20	
Silver	50.00	44.07	ug/L	-12	20	
Sodium	250000	218500	ug/L	-13		
Vanadium	200.0	201.1	ug/L	1	20	
Zinc	100.0	85.66	ug/L	-14	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	374467	-33.40
Germanium	180440	109542	-39.29

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	c2415001	TUN				24-MAR-2006 15:29	1.0	1.0				1	
003	c2415003	ICALBLK	std-blk			24-MAR-2006 15:41	1.0	1.0				2	
004	c2415004	ICAL	CS1			24-MAR-2006 15:46	1.0	1.0				3	
005	c2415005	ICAL	CS2			24-MAR-2006 15:52	1.0	1.0				4	
006	c2415006	ICAL	CS3			24-MAR-2006 15:57	1.0	1.0				5	
007	c2415007	ICAL	CS4			24-MAR-2006 16:03	1.0	1.0				6	
008	c2415008	ICAL	CS5			24-MAR-2006 16:09	1.0	1.0				7	
009	c2415009	ICAL	CS6			24-MAR-2006 16:14	1.0	1.0				8	
010	c2415010	ICV				24-MAR-2006 16:19	1.0	1.0			1	9	
012	c2415012	ICB				24-MAR-2006 16:30	1.0	1.0	1		1	2	
013	c2415013	ICSA				24-MAR-2006 16:36	1.0	1.0			1	10 2	7:CA=291300
014	c2415014	ICSAB				24-MAR-2006 16:41	1.0	1.0			1	11 2	11:CA=290600
017	c2415017	BLANK	QC332055	111436	Filtra	24-MAR-2006 16:58	1.0	1.0			1	2	
018	c2415018	BS	QC332056	111436	Filtra	24-MAR-2006 17:03	1.0	1.0			1	2	
019	c2415019	X	QC332057	111436	Filtra	24-MAR-2006 17:09	1.0	1.0			1	2	
020	c2415020	MSS	185457-016	111436	Filtra	24-MAR-2006 17:14	1.0	1.0	5		1	2	4:MG=237800
021	c2415021	SER	QC332060	111436	Filtra	24-MAR-2006 17:20	5.0	1.0		2	1	2	2:MG=49680.0
022	c2415022	MSS	185457-016	111436	Filtra	24-MAR-2006 17:26	20.0	1.0			1	2	
023	c2415023	SER	QC332060	111436	Filtra	24-MAR-2006 17:31	100.0	1.0		1	1	2	
024	c2415024	CCV				24-MAR-2006 17:37	1.0	1.0			1	12 2	
026	c2415026	CCB				24-MAR-2006 17:48	1.0	1.0			1	2	
027	c2415027	MSS	185457-016	111436	Filtra	24-MAR-2006 17:53	1.0	1.0	4		1	2	4:MG=242900
028	c2415028	MS	QC332058	111436	Filtra	24-MAR-2006 17:59	1.0	1.0	1		1	2	4:MG=244700
029	c2415029	MSD	QC332059	111436	Filtra	24-MAR-2006 18:04	1.0	1.0	1		1	2	4:MG=244400
030	c2415030	PDS	QC332061	111436	Filtra	24-MAR-2006 18:10	1.0	1.0			1	13 2	4:MG=254800
031	c2415031	MS	QC332058	111436	Filtra	24-MAR-2006 18:15	20.0	1.0	1	1	1	2	
032	c2415032	MSD	QC332059	111436	Filtra	24-MAR-2006 18:21	20.0	1.0		1	1	2	
033	c2415033	PDS	QC332061	111436	Filtra	24-MAR-2006 18:26	20.0	1.0		1	1	13 2	
035	c2415035	BSD	QC332057	111436	Filtra	24-MAR-2006 18:38	1.0	1.0			1	2	
036	c2415036	SAMPLE	185457-001	111436	Filtra	24-MAR-2006 18:43	1.0	1.0	4		1	2	3:NA=96550.0
037	c2415037	SAMPLE	185457-002	111436	Filtra	24-MAR-2006 18:49	1.0	1.0	2		1	2	2:NA=99150.0

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [illegible] Date: 3/28/6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
039	c2415039	CCV				24-MAR-2006 19:00	1.0	1.0			1	12 2	
041	c2415041	CCB				24-MAR-2006 19:11	1.0	1.0			1	2	
042	c2415042	SAMPLE	185457-005	111436	Filtra	24-MAR-2006 19:16	1.0	1.0	3		1	2	3:MG=277200
043	c2415043	SAMPLE	185457-006	111436	Filtra	24-MAR-2006 19:22	1.0	1.0	5		1	2	5:MG=317500
044	c2415044	SAMPLE	185457-007	111436	Filtra	24-MAR-2006 19:27	1.0	1.0	2		1	2	2:MG=117600
045	c2415045	SAMPLE	185457-008	111436	Filtra	24-MAR-2006 19:33	1.0	1.0	2		1	2	2:MG=139900
046	c2415046	SAMPLE	185457-001	111436	Filtra	24-MAR-2006 19:39	20.0	1.0			1	2	
047	c2415047	SAMPLE	185457-002	111436	Filtra	24-MAR-2006 19:44	20.0	1.0			1	2	
048	c2415048	SAMPLE	185457-005	111436	Filtra	24-MAR-2006 19:50	20.0	1.0			1	2	
049	c2415049	SAMPLE	185457-006	111436	Filtra	24-MAR-2006 19:55	20.0	1.0			1	2	
050	c2415050	SAMPLE	185457-007	111436	Filtra	24-MAR-2006 20:01	20.0	1.0			1	2	
051	c2415051	SAMPLE	185457-008	111436	Filtra	24-MAR-2006 20:07	20.0	1.0			1	2	
053	c2415053	CCV				24-MAR-2006 20:18	1.0	1.0			1	12 2	
055	c2415055	CCB				24-MAR-2006 20:29	1.0	1.0			1	2	
056	c2415056	ICSA				24-MAR-2006 20:34	1.0	1.0			1	10 2	7:CA=284700
057	c2415057	ICSAB				24-MAR-2006 20:40	1.0	1.0			1	11 2	10:CA=279400
060	c2415060	BLANK	QC331831	111388	Filtra	24-MAR-2006 20:56	1.0	1.0			1	2	
061	c2415061	BS	QC331832	111388	Filtra	24-MAR-2006 21:02	1.0	1.0			1	2	
062	c2415062	BSD	QC331833	111388	Filtra	24-MAR-2006 21:07	1.0	1.0			1	2	
064	c2415064	MSS	185408-008	111388	Filtra	24-MAR-2006 21:18	1.0	1.0	1		1	2	1:NA=21510.0
065	c2415065	SER	QC331838	111388	Filtra	24-MAR-2006 21:24	5.0	1.0			1	2	
066	c2415066	MS	QC331836	111388	Filtra	24-MAR-2006 21:29	1.0	1.0	3		1	2	4:NA=32320.0
067	c2415067	MSD	QC331837	111388	Filtra	24-MAR-2006 21:35	1.0	1.0	2		1	2	3:NA=31390.0
069	c2415069	CCV				24-MAR-2006 21:46	1.0	1.0			1	12 2	
071	c2415071	CCB				24-MAR-2006 21:57	1.0	1.0			1	2	
072	c2415072	TUN				24-MAR-2006 22:03	1.0	1.0				1	
073	c2415073	PDS	QC331839	111388	Filtra	24-MAR-2006 22:09	1.0	1.0	2		1	13 2	3:NA=31210.0
074	c2415074	MSS	185408-010	111388	Filtra	24-MAR-2006 22:15	1.0	1.0	2		1	2	2:NA=42630.0
075	c2415075	MS	QC331834	111388	Filtra	24-MAR-2006 22:20	1.0	1.0	1		1	2	3:NA=53420.0
076	c2415076	MSD	QC331835	111388	Filtra	24-MAR-2006 22:26	1.0	1.0	1		1	2	3:NA=52930.0
077	c2415077	MSS	185408-008	111388	Filtra	24-MAR-2006 22:31	20.0	1.0			1	2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [signature] Date: 3/25/6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
078	c2415078	SER	QC331838	111388	Filtra	24-MAR-2006 22:37	100.0	1.0			1	2	
079	c2415079	MS	QC331836	111388	Filtra	24-MAR-2006 22:42	20.0	1.0			1	2	
080	c2415080	MSD	QC331837	111388	Filtra	24-MAR-2006 22:48	20.0	1.0			1	2	
081	c2415081	PDS	QC331839	111388	Filtra	24-MAR-2006 22:53	20.0	1.0		2	1	13 2	
083	c2415083	CCV				24-MAR-2006 23:04	1.0	1.0			1	12 2	
085	c2415085	CCB				24-MAR-2006 23:15	1.0	1.0			1	2	
086	c2415086	MSS	185408-010	111388	Filtra	24-MAR-2006 23:21	20.0	1.0			1	2	
087	c2415087	MS	QC331834	111388	Filtra	24-MAR-2006 23:27	20.0	1.0			1	2	
088	c2415088	MSD	QC331835	111388	Filtra	24-MAR-2006 23:32	20.0	1.0			1	2	
089	c2415089	SAMPLE	185408-006	111388	Filtra	24-MAR-2006 23:38	1.0	1.0	3		1	2	3:MG=56540.0
090	c2415090	SAMPLE	185408-007	111388	Filtra	24-MAR-2006 23:43	1.0	1.0	3		1	2	3:MG=54910.0
091	c2415091	SAMPLE	185408-009	111388	Filtra	24-MAR-2006 23:49	1.0	1.0	1		1	2	1:NA=20340.0
092	c2415092	SAMPLE	185408-011	111388	Filtra	24-MAR-2006 23:55	1.0	1.0	2		1	2	2:NA=41040.0
093	c2415093	SAMPLE	185408-006	111388	Filtra	25-MAR-2006 00:00	20.0	1.0			1	2	
094	c2415094	SAMPLE	185408-007	111388	Filtra	25-MAR-2006 00:06	20.0	1.0			1	2	
095	c2415095	SAMPLE	185408-009	111388	Filtra	25-MAR-2006 00:11	20.0	1.0			1	2	
097	c2415097	CCV				25-MAR-2006 00:22	1.0	1.0			1	12 2	
099	c2415099	CCB				25-MAR-2006 00:34	1.0	1.0			1	2	
100	c2415100	SAMPLE	185408-011	111388	Filtra	25-MAR-2006 00:39	20.0	1.0			1	2	
101	c2415101	SAMPLE	185463-001	111388	Filtra	25-MAR-2006 00:45	1.0	1.0			1	2	
102	c2415102	SAMPLE	185463-001	111388	Filtra	25-MAR-2006 00:50	20.0	1.0			1	2	
104	c2415104	BLANK	QC331981	111421	Filtra	25-MAR-2006 01:01	1.0	1.0			1	2	
105	c2415105	BS	QC331982	111421	Filtra	25-MAR-2006 01:07	1.0	1.0			1	2	
106	c2415106	BSD	QC331983	111421	Filtra	25-MAR-2006 01:12	1.0	1.0			1	2	
107	c2415107	CCV				25-MAR-2006 01:18	1.0	1.0			1	12 2	
109	c2415109	CCB				25-MAR-2006 01:29	1.0	1.0			1	2	
110	c2415110	MSS	185408-002	111421	Filtra	25-MAR-2006 01:34	1.0	1.0	4		1	2	4:NA=113600
111	c2415111	SER	QC331986	111421	Filtra	25-MAR-2006 01:40	5.0	1.0			1	2	1:NA=22340.0
112	c2415112	MS	QC331984	111421	Filtra	25-MAR-2006 01:45	1.0	1.0			1	2	4:NA=119300
113	c2415113	MSD	QC331985	111421	Filtra	25-MAR-2006 01:51	1.0	1.0			1	2	4:NA=119300
114	c2415114	PDS	QC331987	111421	Filtra	25-MAR-2006 01:56	1.0	1.0			1	13 2	4:NA=116900

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Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: Melvin Date: 3/28/6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
115	c2415115	MSS	185408-002	111421	Filtra	25-MAR-2006 02:02	20.0	1.0			1	2	
116	c2415116	SER	QC331986	111421	Filtra	25-MAR-2006 02:07	100.0	1.0			1	2	
117	c2415117	MS	QC331984	111421	Filtra	25-MAR-2006 02:13	20.0	1.0		1	1	2	
118	c2415118	MSD	QC331985	111421	Filtra	25-MAR-2006 02:19	20.0	1.0		1	1	2	
119	c2415119	PDS	QC331987	111421	Filtra	25-MAR-2006 02:24	20.0	1.0		3	1	13 2	
121	c2415121	CCV				25-MAR-2006 02:35	1.0	1.0			1	12 2	
123	c2415123	CCB				25-MAR-2006 02:46	1.0	1.0			1	2	
124	c2415124	SAMPLE	185408-001	111421	Filtra	25-MAR-2006 02:52	1.0	1.0	4		1	2	4:NA=84720.0
125	c2415125	SAMPLE	185408-003	111421	Filtra	25-MAR-2006 02:57	1.0	1.0	4		1	2	4:NA=86130.0
126	c2415126	SAMPLE	185408-004	111421	Filtra	25-MAR-2006 03:03	1.0	1.0	5		1	2	5:CA=57740.0
127	c2415127	SAMPLE	185408-005	111421	Filtra	25-MAR-2006 03:08	1.0	1.0	5		1	2	5:CA=64560.0
128	c2415128	SAMPLE	185408-001	111421	Filtra	25-MAR-2006 03:14	20.0	1.0			1	2	
129	c2415129	SAMPLE	185408-003	111421	Filtra	25-MAR-2006 03:19	20.0	1.0			1	2	
130	c2415130	SAMPLE	185408-004	111421	Filtra	25-MAR-2006 03:25	20.0	1.0			1	2	
131	c2415131	SAMPLE	185408-005	111421	Filtra	25-MAR-2006 03:30	20.0	1.0			1	2	
133	c2415133	CCV				25-MAR-2006 03:42	1.0	1.0			1	12 2	
135	c2415135	CCB				25-MAR-2006 03:53	1.0	1.0			1	2	
136	c2415136	TUN				25-MAR-2006 03:59	1.0	1.0				1	
137	c2415137	ICSA				25-MAR-2006 04:05	1.0	1.0			1	10 2	7:CA=290700
138	c2415138	ICSAB				25-MAR-2006 04:10	1.0	1.0			1	11 2	10:CA=289100
140	c2415140	SAMPLE	185511-001	111388	Filtra	25-MAR-2006 04:21	1.0	1.0	3		1	2	3:NA=53820.0
141	c2415141	SAMPLE	185511-002	111388	Filtra	25-MAR-2006 04:27	1.0	1.0	3		1	2	3:NA=53130.0
142	c2415142	SAMPLE	185511-009	111388	Filtra	25-MAR-2006 04:32	1.0	1.0	2		1	2	2:NA=191500
143	c2415143	SAMPLE	185511-010	111388	Filtra	25-MAR-2006 04:38	1.0	1.0	4		1	2	4:NA=68870.0
144	c2415144	SAMPLE	185511-011	111388	Filtra	25-MAR-2006 04:43	1.0	1.0	3		1	2	3:MG=40470.0
145	c2415145	SAMPLE	185511-012	111388	Filtra	25-MAR-2006 04:49	1.0	1.0			1	2	
146	c2415146	SAMPLE	185511-013	111388	Filtra	25-MAR-2006 04:55	1.0	1.0			1	2	
148	c2415148	CCV				25-MAR-2006 05:06	1.0	1.0			1	12 2	
150	c2415150	CCB				25-MAR-2006 05:17	1.0	1.0			1	2	
151	c2415151	SAMPLE	185511-001	111388	Filtra	25-MAR-2006 05:22	20.0	1.0	1		1	2	
152	c2415152	SAMPLE	185511-002	111388	Filtra	25-MAR-2006 05:28	20.0	1.0	1		1	2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: MeWu Date: 3/25/6

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
153	c2415153	SAMPLE	185511-009	111388	Filtra	25-MAR-2006 05:34	20.0	1.0	1		1	2	
154	c2415154	SAMPLE	185511-010	111388	Filtra	25-MAR-2006 05:39	20.0	1.0	1		1	2	
155	c2415155	SAMPLE	185511-011	111388	Filtra	25-MAR-2006 05:45	20.0	1.0	1		1	2	
156	c2415156	SAMPLE	185511-012	111388	Filtra	25-MAR-2006 05:50	20.0	1.0	1		1	2	
157	c2415157	SAMPLE	185511-013	111388	Filtra	25-MAR-2006 05:56	20.0	1.0	1		1	2	
159	c2415159	CCV				25-MAR-2006 06:07	1.0	1.0	1		1	12 2	
161	c2415161	CCB				25-MAR-2006 06:18	1.0	1.0			1	2	
162	c2415162	ICSA				25-MAR-2006 06:24	1.0	1.0			1	10 2	7:CA=301200
163	c2415163	ICSAB				25-MAR-2006 06:29	1.0	1.0			1	11 2	10:CA=300000
165	c2415165	SAMPLE	185586-001	111436	Filtra	25-MAR-2006 06:40	1.0	1.0	5		1	2	4:CA=167100
166	c2415166	SAMPLE	185586-002	111436	Filtra	25-MAR-2006 06:46	1.0	1.0	5		1	2	4:CA=124300
167	c2415167	SAMPLE	185586-003	111436	Filtra	25-MAR-2006 06:51	1.0	1.0	5		1	2	4:CA=124000
168	c2415168	SAMPLE	185586-018	111436	Filtra	25-MAR-2006 06:57	1.0	1.0	4		1	2	3:NA=93550.0
169	c2415169	SAMPLE	185586-019	111436	Filtra	25-MAR-2006 07:02	1.0	1.0	6		1	2	5:NA=56300.0
170	c2415170	SAMPLE	185586-020	111436	Filtra	25-MAR-2006 07:08	1.0	1.0	6		1	2	5:NA=137100
171	c2415171	SAMPLE	185586-021	111436	Filtra	25-MAR-2006 07:13	1.0	1.0	5		1	2	4:CA=52610.0
172	c2415172	SAMPLE	185586-022	111436	Filtra	25-MAR-2006 07:19	1.0	1.0	4		1	2	3:NA=51830.0
174	c2415174	CCV				25-MAR-2006 07:30	1.0	1.0			1	12 2	
176	c2415176	CCB				25-MAR-2006 07:41	1.0	1.0			1	2	
177	c2415177	SAMPLE	185586-023	111436	Filtra	25-MAR-2006 07:47	1.0	1.0	3		1	2	
178	c2415178	SAMPLE	185586-024	111436	Filtra	25-MAR-2006 07:52	1.0	1.0	4		1	2	3:MG=54800.0
179	c2415179	SAMPLE	185586-025	111436	Filtra	25-MAR-2006 07:58	1.0	1.0	3		1	2	2:MG=45530.0
180	c2415180	SAMPLE	185586-026	111436	Filtra	25-MAR-2006 08:03	1.0	1.0	4		1	2	3:NA=53600.0
181	c2415181	SAMPLE	185586-001	111436	Filtra	25-MAR-2006 08:09	20.0	1.0	3		1	2	
182	c2415182	SAMPLE	185586-002	111436	Filtra	25-MAR-2006 08:14	20.0	1.0	3		1	2	
183	c2415183	SAMPLE	185586-003	111436	Filtra	25-MAR-2006 08:20	20.0	1.0	3		1	2	
184	c2415184	SAMPLE	185586-018	111436	Filtra	25-MAR-2006 08:26	20.0	1.0	3		1	2	
185	c2415185	CCV				25-MAR-2006 08:33	1.0	1.0	3		1	12 2	
187	c2415187	CCB				25-MAR-2006 08:44	1.0	1.0			1	2	
188	c2415188	ICSA				25-MAR-2006 08:49	1.0	1.0			1	10 2	7:CA=299100
189	c2415189	ICSAB				25-MAR-2006 08:55	1.0	1.0			1	11 2	8:CA=288700

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [signature] Date: 3/25/06

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 23-MAR-2006
Sequence: 56118726 (c2310)
Instrument ID: MET05

ICALBLK Filename: c2310003
Date Analyzed: 23-MAR-2006
Time Analyzed: 10:58

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD	775809	409443	101712	559595	426621	738590
LOWER LIMIT	232743	122833	30514	167879	127986	221577
UPPER LIMIT	930971	491332	122055	671514	511945	886308

TYPE	SAMPLE	#						
ICB		014	792498	432548	98041	534525	392812	681710
ICSA		015	662115	368392	90684	432081	313872	600113
SAMPLE	185385-009	018	785279	408757	101860	558509	423063	737246
SAMPLE	185385-011	019	723337	391900	94906	528650	411529	714248
SAMPLE	185385-017	020	757522	398874	97677	537387	411899	730533
BLANK	QC331373	022	807296	415622	103131	568273	433710	745014
BS	QC331374	023	740500	403294	93839	501171	389758	667987
BSD	QC331375	024	763063	424370	92202	485813	364967	629382
MSS	185457-009	025	713150	415919	88561	461756	340036	617308
SER	QC331378	026	778097	434413	98247	522290	391179	684233
CCV		028	774406	420713	101084	532687	405759	720521
CCB		030	802643	443027	97865	535905	401791	673679
MSS	185457-009	031	707381	429020	86416	453613	327558	599778
MSS	185457-009	032	791642	421937	101382	553011	421404	726334
SER	QC331378	033	800986	429927	101442	559932	418829	724283
MS	QC331376	034	694525	414998	86592	444313	329217	604212
MSD	QC331377	035	707912	425972	86723	445411	328959	604423
PDS	QC331379	036	685790	415851	84740	441409	331073	602703
MS	QC331376	037	786267	408230	99685	554875	431468	748471
MSD	QC331377	038	767125	410956	96397	525823	403829	695146
PDS	QC331379	039	775352	432252	95733	517865	395136	671894
SAMPLE	185381-011	040	699717	407534	86230	461888	351193	635141
CCV		042	759231	425888	95412	501920	387752	669753
CCB		044	775555	427964	95781	526233	401889	667334
SAMPLE	185381-012	045	681941	401263	86430	462416	346486	638378
SAMPLE	185381-013	046	697384	369396	88924	485737	378304	694237
SAMPLE	185381-014	047	707073	379221	89316	477488	365508	676458
SAMPLE	185381-011	048	795076	429608	100250	540088	408462	711223

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 23-MAR-2006 ICALBLK Filename: c2310003
Sequence: 56118726 (c2310) Date Analyzed: 23-MAR-2006
Instrument ID: MET05 Time Analyzed: 10:58

TYPE	SAMPLE	#						
SAMPLE	185381-012	049	770010	404088	101137	558205	430822	759298
BLANK	QC332716	050	717003	414911	81496	448518	337319	548543
BS	QC332717	051	735723	429202	87853	470382	353957	608384
BSD	QC332718	052	745832	426070	88258	473216	359319	611663
CCV		053	786400	431543	97476	511501	396000	687416
CCB		054	793346	426560	95570	530780	408391	672421
MSS	185721-001	055	650366	366978	81558	434981	309589	610332
SER	QC332721	056	749841	400050	98185	532569	394928	738770
MS	QC332719	057	682374	380438	85389	444769	324718	624007
MSD	QC332720	058	708093	389938	90311	461057	320312	645658
PDS	QC332722	059	732856	390342	95639	494639	342678	711890
ICSA		060	653489	353362	93284	469047	356703	674210
CCV		063	723956	381597	97170	529399	421860	738009
CCB		065	757698	407270	95902	526770	405449	678236
BLANK	QC332723	067	688278	411521	80193	434335	330250	531801
BS	QC332724	068	722321	413580	88437	470372	366302	611413
BSD	QC332725	069	712653	385179	90793	495366	398142	674317
MSS	185457-027	070	699726	421061	86864	462982	344120	607588
SER	QC332728	071	752681	426292	96214	517906	388104	669974
MS	QC332726	072	685428	424864	85191	440910	329318	589811
MSD	QC332727	073	688705	422076	85506	440015	332660	591438
SAMPLE	185381-013	074	766669	421789	97903	526793	395899	690022
SAMPLE	185381-014	075	713056	409702	89869	476256	360027	638764
SAMPLE	185381-014	076	732053	394332	98956	552669	425919	741522
CCV		078	751692	430758	95084	500280	391952	656340
CCB		080	769773	425989	95488	523260	395356	667185
PDS	QC332729	081	681525	399486	86059	455315	356872	622800
MSS	185457-027	082	745772	396686	98800	544976	422091	724452
SER	QC332728	083	760109	435042	96434	518621	401612	654800
MS	QC332726	084	760255	431179	94295	511253	389410	646481
MSD	QC332727	085	750186	431532	94271	506132	398100	645187
PDS	QC332729	086	758630	433279	95261	512946	390537	645806
SAMPLE	185456-001	087	702024	431781	83971	445480	326598	556659
SAMPLE	185456-002	088	679293	418343	80939	429379	309962	548478

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 23-MAR-2006
Sequence: 56118726 (c2310)
Instrument ID: MET05

ICALBLK Filename: c2310003
Date Analyzed: 23-MAR-2006
Time Analyzed: 10:58

TYPE	SAMPLE	#							
SAMPLE	185456-003	089	726185	426793	86233	466281	345402	582489	
SAMPLE	185456-004	090	709488	380717	89298	500716	384674	662029	
CCV		092	763806	417218	97334	519938	405930	697863	
CCB		094	780539	421409	96761	531190	406004	678170	
SAMPLE	185456-005	095	710454	396588	86032	466384	350240	607767	
SAMPLE	185456-006	096	711244	389207	88241	486773	368018	642262	
SAMPLE	185456-007	097	718761	412787	86373	467788	339813	597657	
SAMPLE	185456-008	098	676035	415022	81477	430174	313250	555017	
SAMPLE	185456-009	099	709196	402726	88338	486155	365428	626926	
SAMPLE	185381-003	100	761666	430172	96352	522026	391128	665303	
SAMPLE	185381-004	101	769929	430254	96516	523296	399100	662866	
SAMPLE	185381-005	102	771858	422532	95687	518906	395896	665512	
SAMPLE	185381-006	103	766139	403188	97674	537900	412662	698672	
SAMPLE	185381-007	104	756264	402396	97275	541212	415081	702470	
CCV		106	746062	410669	95718	502105	395961	674546	672
CCB		108	777690	412894	95386	527828	400807	665061	
SAMPLE	185381-008	109	734645	372650	98597	566789	442933	765228	
SAMPLE	185381-009	110	742539	365050	99143	570816	443189	772122	
SAMPLE	185381-010	111	746047	423101	94127	503533	381856	639028	
SAMPLE	185381-015	112	737409	385209	96784	541542	419960	718229	
SAMPLE	185381-016	113	746705	379224	98592	561609	434144	738968	
SAMPLE	185381-017	114	746055	400881	96446	528656	404618	681710	
SAMPLE	185381-018	115	759438	392744	97547	538270	412773	710543	
SAMPLE	185381-019	116	760662	422806	94194	511530	381250	639891	
SAMPLE	185381-020	117	749527	420883	93092	503922	378980	633556	
CCV		119	743249	409123	96898	523933	413924	705719	
CCB		121	764578	378081	98293	557852	427619	725014	
ICSA		122	620694	353850	86443	421554	307559	585591	
SAMPLE	185457-014	125	668806	428986	82331	425928	309766	550322	
SAMPLE	185457-021	126	696048	437012	84814	444989	318992	567323	
SAMPLE	185457-022	127	705373	417762	87566	452193	340842	591091	
SAMPLE	185457-023	128	714158	437331	85511	445723	322774	581350	
SAMPLE	185457-024	129	707182	443847	84865	443317	317263	575518	
SAMPLE	185457-025	130	720872	436870	88430	474456	350623	597790	

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 23-MAR-2006
Sequence: 56118726 (c2310)
Instrument ID: MET05

ICALBLK Filename: c2310003
Date Analyzed: 23-MAR-2006
Time Analyzed: 10:58

TYPE	SAMPLE	#							
SAMPLE	185457-026	131	702820	428936	87367	462570	342808	597067	
SAMPLE	185457-010	132	687477	402421	87420	472819	361470	625923	
CCV		134	759945	429897	96016	503487	382921	652430	
CCB		136	763782	431626	96913	532015	395039	670272	
SAMPLE	185457-011	137	676263	409948	85366	449200	328973	601653	
SAMPLE	185457-012	138	678674	434947	83965	430047	304083	556011	
SAMPLE	185457-013	139	663931	420417	82360	431681	304709	558778	
SAMPLE	185457-017	140	663498	423793	80978	426720	304628	554876	
SAMPLE	185393-001	141	678812	419002	84904	444779	331782	575642	
SAMPLE	185393-002	142	717423	423056	88041	461549	343852	590816	
SAMPLE	185393-003	143	705022	422321	88100	460392	340547	595851	
SAMPLE	185393-004	144	708429	388571	90571	494179	382539	661333	
SAMPLE	185393-005	145	693685	388938	89154	479214	363907	640047	
SAMPLE	185393-003	146	691095	394521	85638	449097	338771	574031	
CCV		148	746525	438273	96932	504016	383969	657331	673
CCB		150	767550	406744	99054	552678	423001	708751	
SAMPLE	185457-014	151	733883	373207	97908	559863	438480	743870	
SAMPLE	185457-021	152	737352	402021	96394	533332	409199	684516	
SAMPLE	185457-022	153	733941	372634	98403	565243	440942	749322	
SAMPLE	185457-023	154	749124	401859	98354	537226	407629	699728	
SAMPLE	185457-024	155	746496	394613	97745	542147	419460	706901	
SAMPLE	185457-025	156	751497	422468	97372	523778	391187	656618	
SAMPLE	185457-026	157	746791	376331	99310	558293	433668	738577	
SAMPLE	185457-010	158	742893	397282	97888	544233	425124	704647	
SAMPLE	185457-011	159	748744	426318	95067	513162	384102	641328	
SAMPLE	185457-012	160	746553	428743	94696	506599	390800	636451	
CCV		162	725065	383034	96254	529129	420017	717527	
CCB		164	745110	417507	94887	518108	393877	641274	
SAMPLE	185457-013	165	750589	412664	96755	530045	407788	674393	
SAMPLE	185457-017	166	739356	385243	96093	539145	413829	704993	
CCV		168	734040	404856	96563	510160	399879	682651	
CCB		170	750729	421563	93696	506462	384434	624222	
ICSA		171	585680	358028	83891	401165	288337	545433	
CCV		175	720397	432283	93260	481538	373090	617462	

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 23-MAR-2006
Sequence: 56118726 (c2310)
Instrument ID: MET05

ICALBLK Filename: c2310003
Date Analyzed: 23-MAR-2006
Time Analyzed: 10:58

TYPE	SAMPLE	#						
CCB		177	744839	435876	94172	508641	382921	622092

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

equence Date: 24-MAR-2006
Sequence: 56120449 (c2415)
nstrument ID: MET05

ICALBLK Filename: c2415003
Date Analyzed: 24-MAR-2006
Time Analyzed: 15:41

		IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD		988200	562292	180440	1368410	1333700	2209951
LOWER LIMIT		296460	168688	54132	410523	400110	662985
UPPER LIMIT		1185840	674751	216528	1642092	1600440	2651941

TYPE	SAMPLE	#						
ICB		012	969137	523398	172708	1267032	1243505	2044909
ICSA		013	779542	491304	146225	1095335	938748	1884957
BLANK	QC332055	017	933067	541233	170988	1308727	1286688	2105243
BS	QC332056	018	897053	488852	154003	1104449	1037053	1781347
MSS	185457-016	020	819406	482531	141807	1030667	900572	1765286
SER	QC332060	021	936674	522697	165046	1193875	1135870	2009167
MSS	185457-016	022	972773	540838	172188	1259288	1198188	2057726
SER	QC332060	023	1001688	538308	173595	1273316	1243303	2040529
CCV		024	974542	535254	170147	1196955	1140941	1953272
CCB		026	980518	523143	167279	1239501	1206515	1978534
MSS	185457-016	027	806947	461082	138153	997944	862388	1715177
MS	QC332058	028	826277	474200	140445	992258	872644	1716779
MSD	QC332059	029	805980	471418	137778	993201	870711	1722383
PDS	QC332061	030	821766	471081	136868	982461	847810	1690964
MS	QC332058	031	957831	515238	167168	1211204	1164650	1958101
MSD	QC332059	032	969156	521671	167835	1222229	1164139	1964258
PDS	QC332061	033	952804	517857	166433	1203865	1172058	1960401
BSD	QC332057	035	933562	484101	150456	1065375	995106	1724214
SAMPLE	185457-001	036	819884	451233	138146	983996	884557	1652640
SAMPLE	185457-002	037	895816	484359	146671	1063074	956973	1777156
CCV		039	953180	509681	163182	1155967	1119152	1914650
CCB		041	942974	497013	160729	1193739	1163252	1873462
SAMPLE	185457-005	042	806019	437862	124970	841256	747042	1495271
SAMPLE	185457-006	043	868741	454569	129494	890825	773937	1527506
SAMPLE	185457-007	044	874780	457021	134590	956278	829011	1564727
SAMPLE	185457-008	045	867298	452567	133313	938923	819560	1557071

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

equence Date: 24-MAR-2006 ICALBLK Filename: c2415003
Sequence: 56120449 (c2415) Date Analyzed: 24-MAR-2006
nstrument ID: MET05 Time Analyzed: 15:41

TYPE	SAMPLE	#						
SAMPLE	185457-001	046	983059	527842	167721	1252890	1206212	2000194
SAMPLE	185457-002	047	992755	517129	165457	1223679	1185281	1966397
SAMPLE	185457-005	048	969374	513081	163668	1198046	1153775	1947077
SAMPLE	185457-006	049	976815	507042	162749	1185074	1148658	1944004
SAMPLE	185457-007	050	944914	495280	160109	1184926	1158760	1906340
SAMPLE	185457-008	051	962775	502014	162041	1208567	1178110	1934641
CCV		053	938741	499396	159991	1139949	1112291	1894655
CCB		055	948372	501028	161896	1226800	1216616	1962262
ICSA		056	754441	444889	133804	996236	855786	1688332
BLANK	QC331831	060	887221	482077	154230	1177455	1164861	1857360
BS	QC331832	061	876773	464330	145417	1051301	994238	1682322
BSD	QC331833	062	861659	464521	145047	1051915	995756	1681989
MSS	185408-008	064	853151	464363	142451	1050691	994561	1683203
SER	QC331838	065	881915	471430	151282	1126374	1129253	1816009
MS	QC331836	066	822095	441946	138016	984556	943918	1614616
MSD	QC331837	067	822840	449326	139344	997096	944252	1634199
CCV		069	867540	477594	152734	1090823	1069936	1793122
CCB		071	892991	474552	152380	1132829	1123713	1801393
PDS	QC331839	073	821562	448903	137575	984025	903300	1587489
MSS	185408-010	074	828272	445228	139365	1018084	941147	1653171
MS	QC331834	075	793752	442179	137015	990889	921313	1652132
MSD	QC331835	076	804277	441422	136827	996343	925088	1657566
MSS	185408-008	077	862998	471269	151144	1147421	1140857	1835833
SER	QC331838	078	872665	465123	150431	1144231	1142246	1828186
MS	QC331836	079	878168	467273	150447	1143427	1120530	1803292
MSD	QC331837	080	885873	466337	150048	1122809	1128941	1815370
PDS	QC331839	081	876342	471766	152091	1151606	1142680	1842286
CCV		083	864072	469597	149631	1083146	1052352	1762150
CCB		085	872491	466362	149948	1134348	1121464	1786827
MSS	185408-010	086	862140	464602	150047	1119899	1110489	1790612
MS	QC331834	087	870795	464299	150027	1138492	1115658	1798186
MSD	QC331835	088	870914	465487	150382	1135587	1128329	1808531

= Outside QC Limits

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

equence Date: 24-MAR-2006 ICALBLK Filename: c2415003
Sequence: 56120449 (c2415) Date Analyzed: 24-MAR-2006
nstrument ID: MET05 Time Analyzed: 15:41

YPE	SAMPLE	#						
AMPLE	185408-006	089	779910	434417	134605	1000537	937490	1673153
AMPLE	185408-007	090	778389	436320	135509	1011547	967045	1680540
AMPLE	185408-009	091	792816	445703	138222	1062007	1040861	1765889
AMPLE	185408-011	092	746313	439046	136117	1052751	1007617	1778780
AMPLE	185408-006	093	804469	479062	152131	1214168	1224563	1988922
AMPLE	185408-007	094	814321	478859	152621	1216094	1217743	1992688
AMPLE	185408-009	095	807417	471113	149594	1202599	1210871	1972224
CV		097	850311	475066	150588	1119011	1086373	1851792
CB		099	839745	456637	148479	1142762	1144155	1848352
AMPLE	185408-011	100	815768	458486	148813	1155942	1139220	1851356
AMPLE	185463-001	101	757363	425854	135127	1041515	1030825	1710206
AMPLE	185463-001	102	797634	457489	147108	1164342	1183790	1901204
LANK	QC331981	104	802593	457467	146054	1159678	1170443	1890366
S	QC331982	105	788112	430226	136577	1002517	976562	1654540
SD	QC331983	106	817709	434809	137135	1018464	964466	1655119
CV		107	839407	458026	146831	1077183	1042410	1762605
CB		109	841646	456716	146645	1137654	1126462	1813376
MSS	185408-002	110	726140	416296	125819	924997	844072	1585680
SER	QC331986	111	795657	447318	142353	1092646	1059218	1791620
MS	QC331984	112	721020	417512	124987	932106	835838	1585923
MSD	QC331985	113	729081	422214	126492	943589	843430	1608086
PDS	QC331987	114	732944	421383	125876	941699	837344	1582769
MSS	185408-002	115	821297	459594	146709	1134817	1121528	1815054
SER	QC331986	116	802150	454932	146103	1154993	1146332	1857097
MS	QC331984	117	834463	457260	146268	1124000	1102511	1795529
MSD	QC331985	118	821924	446850	144312	1095886	1083850	1765997
PDS	QC331987	119	827809	454117	144977	1098643	1077590	1760144
CCV		121	806356	440073	142136	1039855	1008839	1706144
CCB		123	830886	449947	144623	1113418	1102799	1771621
SAMPLE	185408-001	124	709028	417409	127520	979206	893168	1638904
SAMPLE	185408-003	125	701819	423482	128463	1001801	915296	1711931
SAMPLE	185408-004	126	733003	414004	126424	953265	870120	1587071

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= Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

equence Date: 24-MAR-2006 ICALBLK Filename: c2415003
Sequence: 56120449 (c2415) Date Analyzed: 24-MAR-2006
nstrument ID: MET05 Time Analyzed: 15:41

TYPE	SAMPLE	#						
SAMPLE	185408-005	127	739588	410428	124955	934629	848657	1545016
SAMPLE	185408-001	128	822966	448691	144346	1110968	1103256	1774551
SAMPLE	185408-003	129	811888	443553	142886	1100351	1082951	1766579
SAMPLE	185408-004	130	786395	431762	137826	1041526	1040155	1673719
SAMPLE	185408-005	131	828836	452710	144081	1094699	1080384	1759164
CCV		133	813402	443206	140547	1028681	979894	1681265
CCB		135	841360	445097	143634	1086631	1083950	1738890
ICSA		137	674836	406723	121976	887703	772371	1536515
SAMPLE	185511-001	140	758925	428789	128973	951252	851467	1556345
SAMPLE	185511-002	141	774019	443609	132850	1007662	915326	1670631
SAMPLE	185511-009	142	775011	435018	127055	919088	800522	1517413
SAMPLE	185511-010	143	809101	433561	128827	909109	808592	1500044
SAMPLE	185511-011	144	834344	444979	134791	987084	888617	1598726
SAMPLE	185511-012	145	879524	454859	139927	1050074	1003783	1625874
SAMPLE	185511-013	146	889604	448738	139482	1047780	977452	1630266
CCV		148	898686	474239	147941	1054434	995910	1697276
CCB		150	928026	470981	147653	1106829	1054733	1695829
SAMPLE	185511-001	151	914571	468593	147785	1095844	1048000	1695234
SAMPLE	185511-002	152	898120	465039	146805	1081241	1031908	1681694
SAMPLE	185511-009	153	892820	477480	148386	1104241	1056783	1743078
SAMPLE	185511-010	154	870000	449027	142702	1061851	1016986	1643022
SAMPLE	185511-011	155	893272	463183	146295	1080807	1049763	1712058
SAMPLE	185511-012	156	845198	439973	139813	1034738	1013321	1637294
SAMPLE	185511-013	157	859140	482603	155303	1210884	1197044	1922512
CCV		159	836473	493671	155900	1140911	1105121	1864226
CCB		161	838678	505026	161662	1282761	1249274	2030082
ICSA		162	699133	407378	123996	865103	757128	1506762
SAMPLE	185586-001	165	771774	402916	112089	748614	641049	1285182
SAMPLE	185586-002	166	819412	416153	116812	770036	678518	1285819
SAMPLE	185586-003	167	804969	418760	119801	806652	731128	1384785
SAMPLE	185586-018	168	774275	410904	116904	787970	703842	1336567
SAMPLE	185586-019	169	827801	431607	125902	859952	772891	1461643

= Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

equence Date: 24-MAR-2006
Sequence: 56120449 (c2415)
nstrument ID: MET05

ICALBLK Filename: c2415003
Date Analyzed: 24-MAR-2006
Time Analyzed: 15:41

YPE	SAMPLE	#						
AMPLE	185586-020	170	825135	428246	121478	799779	712619	1377815
AMPLE	185586-021	171	843481	425377	124694	821892	761419	1398218
AMPLE	185586-022	172	803525	425996	122775	827060	767913	1434556
CV		174	892339	468084	138839	979740	906100	1564977
CB		176	877911	451821	137616	1006582	945762	1555180
AMPLE	185586-023	177	862123	410613	122842	822762	772588	1357276
AMPLE	185586-024	178	742583	416797	124875	900069	833040	1506763
AMPLE	185586-025	179	689219	413677	125880	978651	901403	1635791
AMPLE	185586-026	180	698318	397434	122510	958796	909958	1617639
AMPLE	185586-001	181	741263	417299	134961	1083737	1102542	1781481
AMPLE	185586-002	182	737925	451771	142841	1149286	1148213	1865982
AMPLE	185586-003	183	786967	441082	138181	1072986	1058515	1708180
AMPLE	185586-018	184	777445	448020	140428	1114324	1096072	1793461
CV		185	1069484	756141*	185899	1355459	1186577	2005822
CB		187	867621	468086	141351	1068398	1040296	1678665
CSA		188	692065	386620	109304	745623	635742	1283214

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= Outside QC Limits

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185457 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	KK	SE	AG	NA	TL	VV	ZN
185457-001	MET04	03/16/06 14:50	1.0															+								
185457-001	MET05	03/24/06 18:43	1.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+	+	+			+	+
185457-001	MET05	03/24/06 19:39	20.0							+						+							+	+		
185457-002	MET04	03/16/06 14:52	1.0															+								
185457-002	MET05	03/24/06 18:49	1.0	+	+	+	+	+	+	+	+	+	+	+	+		+		+	+	+	+		+	+	+
185457-002	MET05	03/24/06 19:44	20.0													+							+			
185457-005	MET04	03/16/06 14:54	1.0															+								
185457-005	MET05	03/24/06 19:16	1.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
185457-005	MET05	03/24/06 19:50	20.0							+						+							+			
185457-006	MET04	03/16/06 14:56	1.0															+								
185457-006	MET05	03/24/06 19:22	1.0	+	+	+	+	+	+		+	+	+	+	+					+	+	+		+	+	+
185457-006	MET05	03/24/06 19:55	20.0							+						+	+		+				+			
185457-007	MET04	03/16/06 14:58	1.0															+								
185457-007	MET05	03/24/06 19:27	1.0	+	+	+	+	+	+	+	+	+	+	+	+		+		+	+	+	+		+	+	+
185457-007	MET05	03/24/06 20:01	20.0													+							+			
185457-008	MET04	03/16/06 15:01	1.0															+								
185457-008	MET05	03/24/06 19:33	1.0	+	+	+	+	+	+	+	+	+	+	+	+		+		+	+	+	+		+	+	+
185457-008	MET05	03/24/06 20:07	20.0													+							+			
185457-009	MET05	03/23/06 13:05	1.0	+		+			+		+		+	+	+				+	+						+
185457-009	MET05	03/23/06 13:39	1.0																							
185457-009	MET05	03/23/06 13:45	10.0							+						+	+						+			
185457-010	MET05	03/23/06 23:08	1.0	+		+			+		+		+	+	+				+	+						+
185457-010	MET05	03/24/06 01:33	20.0							+						+	+						+			
185457-011	MET05	03/23/06 23:36	1.0	+		+			+		+		+		+				+							+
185457-011	MET05	03/24/06 01:39	20.0							+				+		+	+			+			+			
185457-012	MET05	03/23/06 23:42	1.0	+		+			+		+		+		+				+							+
185457-012	MET05	03/24/06 01:45	20.0							+				+		+	+			+			+			
185457-013	MET05	03/23/06 23:47	1.0	+		+			+		+		+	+	+				+	+						+
185457-013	MET05	03/24/06 02:13	20.0							+						+	+						+			
185457-014	MET05	03/23/06 22:29	1.0	+	+	+			+		+		+		+				+	+					+	+
185457-014	MET05	03/24/06 00:54	20.0							+				+		+	+						+			
185457-016	MET04	03/16/06 14:35	1.0															+								
185457-016	MET05	03/24/06 13:39	1.0																							
185457-016	MET05	03/24/06 14:10	20.0																							
185457-016	MET05	03/24/06 17:14	1.0	+	+	+		+	+		+	+	+	+	+		+		+	+	+	+			+	+
185457-016	MET05	03/24/06 17:26	20.0				+			+						+							+			

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185457 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
185457-016	MET05	03/24/06 17:53	1.0																					+		
185457-017	MET05	03/23/06 23:53	1.0	+		+			+		+		+	+	+				+	+						+
185457-017	MET05	03/24/06 02:18	20.0							+						+	+						+			
185457-021	MET05	03/23/06 22:35	1.0	+	+	+			+		+		+	+	+		+		+	+					+	+
185457-021	MET05	03/24/06 01:00	20.0							+						+							+			
185457-022	MET05	03/23/06 22:40	1.0	+	+	+			+		+		+	+	+		+		+	+					+	+
185457-022	MET05	03/24/06 01:05	20.0							+						+							+			
185457-023	MET05	03/23/06 22:46	1.0	+	+	+			+		+		+	+	+				+	+					+	+
185457-023	MET05	03/24/06 01:11	20.0							+						+	+						+			
185457-024	MET05	03/23/06 22:51	1.0	+	+	+			+		+		+	+	+				+	+					+	+
185457-024	MET05	03/24/06 01:16	20.0							+						+	+						+			
185457-025	MET05	03/23/06 22:57	1.0	+	+	+			+	+	+		+	+	+	+	+		+	+					+	+
185457-025	MET05	03/24/06 01:22	20.0																				+			
185457-026	MET05	03/23/06 23:03	1.0	+	+	+			+		+		+	+	+		+		+	+					+	+
185457-026	MET05	03/24/06 01:28	20.0							+						+							+			
185457-027	MET05	03/23/06 17:22	1.0	+	+	+			+		+		+	+	+		+		+	+					+	+
185457-027	MET05	03/23/06 18:29	10.0							+						+							+			
QC331373	MET05	03/23/06 12:49	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC331374	MET05	03/23/06 12:54	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC331375	MET05	03/23/06 13:00	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC331376	MET05	03/23/06 13:56	1.0	+	+	+		+	+	+	+	+	+		+	+	+		+	+	+	+	+	+	+	+
QC331376	MET05	03/23/06 14:12	10.0				+							+												
QC331377	MET05	03/23/06 14:01	1.0	+	+	+		+	+	+	+	+	+		+	+	+		+	+	+	+	+	+	+	+
QC331377	MET05	03/23/06 14:18	10.0				+							+												
QC331378	MET05	03/23/06 13:11	5.0	+	+	+	+	+	+		+	+	+	+	+				+	+	+	+			+	+
QC331378	MET05	03/23/06 13:50	50.0							+						+	+						+	+		
QC331379	MET05	03/23/06 14:07	1.0	+	+	+		+	+		+	+	+		+				+	+	+	+		+	+	+
QC331379	MET05	03/23/06 14:23	10.0				+			+				+		+	+						+			
QC331792	MET04	03/16/06 14:27	1.0															+								
QC331793	MET04	03/16/06 14:30	1.0															+								

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185457 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
QC331794	MET04	03/16/06 14:32	1.0															+								
QC331795	MET04	03/16/06 14:34	1.0															+								
QC331796	MET04	03/16/06 14:37	1.0															+								
QC331797	MET04	03/16/06 14:40	1.0															+								
QC331798	MET04	03/16/06 14:43	1.0															+								
QC331799	MET04	03/16/06 14:45	1.0															+								
QC332055	MET05	03/24/06 16:58	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC332056	MET05	03/24/06 17:03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC332057	MET05	03/24/06 18:38	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC332058	MET05	03/24/06 13:50	1.0																							
QC332058	MET05	03/24/06 14:21	20.0																							
QC332058	MET05	03/24/06 17:59	1.0	+	+	+		+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC332058	MET05	03/24/06 18:15	20.0				+																			
QC332059	MET05	03/24/06 13:56	1.0																							
QC332059	MET05	03/24/06 14:26	20.0																							
QC332059	MET05	03/24/06 18:04	1.0	+	+	+		+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC332059	MET05	03/24/06 18:21	20.0				+																			
QC332060	MET05	03/24/06 13:45	5.0																							
QC332060	MET05	03/24/06 14:15	100.0																							
QC332060	MET05	03/24/06 17:20	5.0	+	+	+		+	+		+	+	+	+	+		+		+	+	+	+			+	+
QC332060	MET05	03/24/06 17:31	100.0				+			+						+							+	+		
QC332061	MET05	03/24/06 14:01	1.0																							
QC332061	MET05	03/24/06 18:10	1.0	+	+	+		+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
QC332061	MET05	03/24/06 18:26	20.0				+			+						+							+			
QC332723	MET05	03/23/06 17:05	1.0	+	+	+	+	+	+	+		+	+	+	+	+	+		+	+	+	+	+	+		+
QC332723	MET05	03/24/06 12:28	1.0								+														+	
QC332724	MET05	03/23/06 17:11	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC332725	MET05	03/23/06 17:16	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC332726	MET05	03/23/06 17:33	1.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
QC332726	MET05	03/23/06 18:40	10.0							+						+							+			
QC332727	MET05	03/23/06 17:39	1.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	+

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185457 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
QC332727	MET05	03/23/06 18:46	10.0							+						+							+			
QC332728	MET05	03/23/06 17:28	5.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
QC332728	MET05	03/23/06 18:35	50.0							+						+							+			
QC332729	MET05	03/23/06 18:23	1.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
QC332729	MET05	03/23/06 18:52	10.0							+						+							+			

Curtis & Tompkins Laboratories Sample Preparation Summary 23-MAR-2006 16:03

Batch Number : 111603
Date Extracted: 23-MAR-2006
Extracted by : Kevin Gaines
Prep Method : 200.8

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S2309
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185456-001		Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/ICP		
185456-002		Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/ICP		
185456-003		Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/ICP		
185456-004		Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/ICP		
185456-005		Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/ICP		
185456-006		Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/ICP		
185456-007		Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/ICP		
185456-008		Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/ICP		
185456-009		Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/ICP		
185457-014		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				15MET		
185457-021		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				15MET		
185457-022		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				15MET		
185457-023		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				15MET		
185457-024		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				15MET		
185457-025		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				15MET		
185457-026		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				15MET		
185457-027		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				15MET		
QC332723	BLANK		Filtrate	50	mL	50	1.000000	1				ICAP		
QC332724	BS		Filtrate	50	mL	50	1.000000	1	.5			ICAP		
QC332725	BSD		Filtrate	50	mL	50	1.000000	1	.5			ICAP		
QC332726	MS	of 185457-027	Filtrate	50	mL	50	1.000000	1	.5			ICAP		
QC332727	MSD	of 185457-027	Filtrate	50	mL	50	1.000000	1	.5			ICAP		
QC332728	SER	of 185457-027	Filtrate	50	mL	50	1.000000	1				ICAP		
QC332729	PDS	of 185457-027	Filtrate	50	mL	50	1.000000	1				ICAP		

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Prep Chemist: [illegible] Reviewed By: [illegible] Date: 3/28/6

Relinquished By: [illegible] Received By: [illegible] Date: 3/23/6

Water Digestion for ICP-MS Curtis & Tompkins, Ltd.

LIMS Batch #: 111603
Date Digested: 3/23/06
Digested by: [illegible]

Digestion Method
☒ EPA 200.8 for ICP-MS
☐ _____

BK 2288
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Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BK	50	50		
BS				
BSD				
MS-027K				FIELD FILTERED
MSD-027				
185457-027				
-147				
-21D				
-22				
23G				
24				
25D				
26				
456-01G				
-02				
-03				
-04				
-05				
-06				
-07				
-08				
-09				

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90-95 degrees C)	95	[illegible] 3/23
.5 mL of spike solution was added to all spikes	S2309	
concentrated HCl	2403-4 Baker	
concentrated HNO3	35040	
☐ filtered thru' Whatman # 541		

[illegible] 3/23/06
Extraction Chemist / Date

Continued from page ___
Continued on page ___

[illegible] 3/23/06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Preparation Summary 14-MAR-2006 10:52

Batch Number : 111276
Date Extracted: 14-MAR-2006
Extracted by : Kevin Gaines
Prep Method : 200.8

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S2309
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185381-011			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185381-012			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185381-013			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185381-014			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185393-001			Union Sanitary District	Water	50	mL	50	1.000000	1					AG, AS, CD, (more)		
185393-002			Union Sanitary District	Water	50	mL	50	1.000000	1					AG, AS, CD, (more)		
185393-003			Union Sanitary District	Water	50	mL	50	1.000000	1					AG, AS, CD, (more)		
185393-004			Union Sanitary District	Water	50	mL	50	1.000000	1					AG, AS, CD, (more)		
185393-005			Union Sanitary District	Water	50	mL	50	1.000000	1					AG, AS, CD, (more)		
185457-009			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185457-010			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185457-011			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185457-012			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185457-013			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185457-017			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
QC331373	BLANK			Filtrate	50	mL	50	1.000000	1					ICAP		
QC331374	BS			Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331375	BSD			Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331376	MS	of 185457-009		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331377	MSD	of 185457-009		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331378	SER	of 185457-009		Filtrate	50	mL	50	1.000000	1					ICAP		
QC331379	PDS	of 185457-009		Filtrate	50	mL	50	1.000000	1					ICAP		

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Prep Chemist: [signature] 3/14/06 Reviewed By: MW Date: 3/23/6

Relinquished By: [signature] 3/14/06 Received By: MW Date: 3/23/6

Water Digestion for ICP-MS Curtis & Tompkins, Ltd.

LIMS Batch #: 111276
Date Digested: 3/14/06
Digested by: [illegible]

Digestion Method
☑ EPA 200.8 for ICP-MS
☐ _____

BK 2288
Page 8

Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BK	50	50		
BS				
BSD				
MS - 09AA				FIELD FILTERED
MSD - 09				
185457 - 09				
- 10 I				
- 11				
- 12				
- 13				
- 17				
381 - 11 G				
- 12				
- 13				
- 14				
393 - 01 B				
- 02				
- 03				
- 04				
- 05				

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90-95 degrees C)	95	[illegible] 3/14
.5 mL of spike solution was added to all spikes	82305	
concentrated HCl	24034 BAKER	
concentrated HNO3	35040	
☐ filtered thru' Whatman # 541		

[illegible]
Extraction Chemist / Date

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Continued on page ____

MW 3/14/6
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Preparation Summary 24-MAR-2006 13:05

Batch Number : 111436
Date Extracted: 19-MAR-2006
Extracted by : Kevin Gaines
Prep Method : 200.8

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S2309
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185457-001		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185457-002		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185457-005		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185457-006		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185457-007		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185457-008		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185457-016		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185586-001		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185586-002		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185586-003		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185586-018		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185586-019		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185586-020		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185586-021		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185586-022		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185586-023		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185586-024		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185586-025		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185586-026		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
QC332055	BLANK		Filtrate	50	mL	50	1.000000	1					ICAP		
QC332056	BS		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC332057	BSD		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC332058	MS	of 185457-016	Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC332059	MSD	of 185457-016	Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC332060	SER	of 185457-016	Filtrate	50	mL	50	1.000000	1					ICAP		
QC332061	PDS	of 185457-016	Filtrate	50	mL	50	1.000000	1					ICAP		

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Prep Chemist: MW for KG Reviewed By: MW Date: 3/24/6

Relinquished By: MW Received By: MW Date: 3/24/6

Water Digestion for ICP-MS

Curtis & Tompkins, Ltd.

LIMS Batch #: 111436
Date Digested: 3/19/06
Digested by: [illegible]

Digestion Method
☑ EPA 200.8 for ICP-MS
☐ _____

BK 2288
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Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BLK	50	50	N	
BS				
BSD				
MS - 16S				FIELD FILTERED
MSD - 16				
185457 - 16				
- 01G				
- 02				
- 05				
- 06				
- 07				
- 08				
586 - 01J				
- 02				
- 03				
- 18				
- 19				
- 20				
- 21				
- 22				
- 23				
- 24 H				
- 25 J				
- 26				

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90-95 degrees C)	95	[illegible] 3/19
.5 mL of spike solution was added to all spikes	32307	
concentrated HCl	24034 BAKER	
concentrated HNO3	35040	
☐ filtered thru' Whatman # 541		

[illegible] 3/19/06
Extraction Chemist / Date

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Continued on page _____

MW 3/24/06
Reviewed by / Date

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

ıst : MET04
alnum : 46108784001 Date : 16-MAR-2006 13:04 Type : WATER Reviewer: ---
ıits : ug/L X Axis : R Inj Vol : 2000 uL

evel	File	Seqnum	Sample ID	Analyzed	Stds
L1	111370	46108784002	Std02Rep1	16-MAR-2006 13:05	S2922 (500X)
L2	111370	46108784003	Std03Rep1	16-MAR-2006 13:07	S2922 (200X)
L3	111370	46108784004	Std04Rep1	16-MAR-2006 13:09	S2922 (50X)
L4	111370	46108784005	Std05Rep1	16-MAR-2006 13:11	S2922 (20X)
L5	111370	46108784006	Std06Rep1	16-MAR-2006 13:13	S2922 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
ercury	59830	59724	58747	57101	60001	LINR	0.02376	1.68E-5		59080	0.999	.99	

690

ɴR=Linear regression
strument amount = a0 + response * a1 + response^2 * a2

46108784001

WinHg Database 1.3

File Utility Help

RN RN

Protocol hgppb

Dataset/Proto 031606 /hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.67740e-5

C 2.37603e-2

Rho .999694

Type Linear

☑ Calibrated

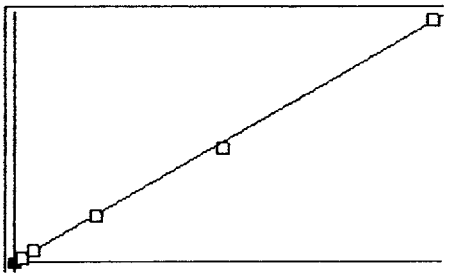
☑ Accepted

Accept

Rel. Abs.
600005

Accepted

New



Include S1 Rep 1 ☑

Conc. 10.1

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	.055	.055	1875	1	1875		
02	.20000	.224	.024	11967	0%	11966		
03	.50000	.525	.025	29863	0%	29862		
04	2.0000	1.99	-.005	117494	0%	117493		
05	5.0000	4.81	-.187	285506	0%	285505		
06	10.000	10.1	.088	600005	0%	600005		

Ready NUM

POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Standard: 1 Rep: 1              Seq:  5       13:04:07 16 Mar 06   HG

Hg    .000    ppb       1875
              Bkgd 1    9976645

*** Standard: 2 Rep: 1              Seq:  6       13:05:51 16 Mar 06   HG

Hg    .200    ppb       11966
              Bkgd 1    9973474

*** Standard: 3 Rep: 1              Seq:  7       13:07:34 16 Mar 06   HG

Hg    .500    ppb       29862
              Bkgd 1    9975128

*** Standard: 4 Rep: 1              Seq:  8       13:09:22 16 Mar 06   HG

Hg    2.00    ppb       117493
              Bkgd 1    9971758

*** Standard: 5 Rep: 1              Seq:  9       13:11:27 16 Mar 06   HG

Hg    5.00    ppb       285505
              Bkgd 1    9972665

*** Standard: 6 Rep: 1              Seq:  10      13:13:23 16 Mar 06   HG

Hg    10.0    ppb       600005
              Bkgd 1    9973677

*** Check Standard: 2  Ck2s2924     Seq:  11      13:17:15 16 Mar 06   HG
Line  Flag             Intensities
Hg                     320120
              Bkgd 1   9972341

*** Check Standard: 1  Ck1ICB       Seq:  12      13:19:06 16 Mar 06   HG
Line  Flag             Intensities
Hg                     285
              Bkgd 1   9974191

*** Sample ID: qc331757             Seq:  13      13:20:49 16 Mar 06   HG
                           111370,1
Hg    .069    ppb       2692
              Bkgd 1    9975336

=============================================================================
```

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 46108864 Instrument: MET04 HydraAA HG Analyzer Begun: 16-MAR-2006
Analytical Method: EPA 7470A SOP Version: HG_water_rv7
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
01	111380	CCV					16-MAR-2006 14:24	1.0	1.0	1	5.000	46108784001	5.470		ug/L	109		
02	111380	CCB					16-MAR-2006 14:25	1.0	1.0			46108784001	ND	0.20	ug/L			
03	111380	BLANK	QC331792		111380	Filtra	16-MAR-2006 14:27	1.0	1.0			46108784001	ND	0.20	ug/L			
04	111380	BLANK	QC331793		111380	WET Le	16-MAR-2006 14:30	1.0	5.0			46108784001	ND	1.0	ug/L			
05	111380	BS	QC331794		111380	Filtra	16-MAR-2006 14:32	1.0	1.0		5.000	46108784001	5.060	0.20	ug/L	101		
06	111380	BSD	QC331795		111380	Filtra	16-MAR-2006 14:34	1.0	1.0		5.000	46108784001	4.960	0.20	ug/L	99	2	
07	111380	MSS	185457-016		111380	Filtra	16-MAR-2006 14:35	1.0	1.0			46108784001	ND	0.20	ug/L			
08	111380	MS	QC331796	185457-016	111380	Filtra	16-MAR-2006 14:37	1.0	1.0		5.000	46108784001	5.240	0.20	ug/L	105		
09	111380	MSD	QC331797	185457-016	111380	Filtra	16-MAR-2006 14:40	1.0	1.0		5.000	46108784001	5.480	0.20	ug/L	110	4	
10	111380	MSS	185426-001		111380	WET Le	16-MAR-2006 14:42	1.0	5.0			46108784001	ND	1.0	ug/L			
11	111380	MS	QC331798	185426-001	111380	WET Le	16-MAR-2006 14:43	1.0	5.0		25.00	46108784001	21.25	1.0	ug/L	85		
12	111380	MSD	QC331799	185426-001	111380	WET Le	16-MAR-2006 14:45	1.0	5.0		25.00	46108784001	20.60	1.0	ug/L	82	3	
13	111380	CCV					16-MAR-2006 14:47	1.0	1.0	2	7.500	46108784001	7.770		ug/L	104		
14	111380	CCB					16-MAR-2006 14:49	1.0	1.0			46108784001	ND	0.20	ug/L			
15	111380	SAMPLE	185457-001		111380	Filtra	16-MAR-2006 14:50	1.0	1.0			46108784001	ND	0.20	ug/L			
16	111380	SAMPLE	185457-002		111380	Filtra	16-MAR-2006 14:52	1.0	1.0			46108784001	ND	0.20	ug/L			
17	111380	SAMPLE	185457-005		111380	Filtra	16-MAR-2006 14:54	1.0	1.0			46108784001	ND	0.20	ug/L			
18	111380	SAMPLE	185457-006		111380	Filtra	16-MAR-2006 14:56	1.0	1.0			46108784001	ND	0.20	ug/L			
19	111380	SAMPLE	185457-007		111380	Filtra	16-MAR-2006 14:58	1.0	1.0			46108784001	ND	0.20	ug/L			
20	111380	SAMPLE	185457-008		111380	Filtra	16-MAR-2006 15:01	1.0	1.0			46108784001	ND	0.20	ug/L			
21	111380	SAMPLE	185511-012		111380	Filtra	16-MAR-2006 15:03	1.0	1.0			46108784001	ND	0.20	ug/L			
22	111380	SAMPLE	185511-013		111380	Filtra	16-MAR-2006 15:05	1.0	1.0			46108784001	ND	0.20	ug/L			
23	111380	SAMPLE	185516-001		111380	Filtra	16-MAR-2006 15:07	1.0	1.0			46108784001	71 >LR	0.20	ug/L			>LR b*
24	111380	SAMPLE	185516-002		111380	Filtra	16-MAR-2006 15:09	1.0	1.0			46108784001	0.57	0.20	ug/L			
25	111380	CCV					16-MAR-2006 15:12	1.0	1.0	3	2.500	46108784001	2.790		ug/L	112		
26	111380	CCB					16-MAR-2006 15:14	1.0	1.0			46108784001	ND	0.20	ug/L			
27	111380	SAMPLE	185516-003		111380	Filtra	16-MAR-2006 15:16	1.0	1.0			46108784001	1.3	0.20	ug/L			
28	111380	SAMPLE	185558-015		111380	Filtra	16-MAR-2006 15:18	1.0	1.0			46108784001	ND	0.20	ug/L			
29	111380	SAMPLE	185568-001		111380	Water	16-MAR-2006 15:20	1.0	1.0			46108784001	0.62	0.20	ug/L			
30	111380	SAMPLE	185516-001		111380	Filtra	16-MAR-2006 15:22	10.0	1.0			46108784001	92	2.0	ug/L			
31	111380	CCV					16-MAR-2006 15:24	1.0	1.0	1	5.000	46108784001	5.380		ug/L	108		
32	111380	CCB					16-MAR-2006 15:26	1.0	1.0			46108784001	[0.05700]	0.20	ug/L			

Stds used: 1=S2926 2=S2927 3=S2925
Flags used: >LR=overrange b=noncompliant

Analyst: [signature] Date: 3/16/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

uence: 46108784 Instrument: MET04 HydraAA HG Analyzer Begun: 16-MAR-2006
lytical Method: EPA 7470A SOP Version: HG_water_rv7
lyte: Mercury

ilename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
11370	ICALBLK	Std01Rep1				16-MAR-2006 13:04	1.0	1.0									
11370	ICAL	Std02Rep1				16-MAR-2006 13:05	1.0	1.0									
11370	ICAL	Std03Rep1				16-MAR-2006 13:07	1.0	1.0									
11370	ICAL	Std04Rep1				16-MAR-2006 13:09	1.0	1.0									
11370	ICAL	Std05Rep1				16-MAR-2006 13:11	1.0	1.0									
11370	ICAL	Std06Rep1				16-MAR-2006 13:13	1.0	1.0									
11370	ICV					16-MAR-2006 13:17	1.0	1.0	2	5.000	46108784001	5.390		ug/L	108		
11370	ICB					16-MAR-2006 13:19	1.0	1.0			46108784001	[0.02900]	0.20	ug/L			
11370	BLANK	QC331757		111370	Water	16-MAR-2006 13:20	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	BS	QC331758		111370	Water	16-MAR-2006 13:22	1.0	1.0		5.000	46108784001	4.950	0.20	ug/L	99		
11370	BSD	QC331759		111370	Water	16-MAR-2006 13:24	1.0	1.0		5.000	46108784001	4.860	0.20	ug/L	97	2	
11370	MSS	185438-005		111370	Water	16-MAR-2006 13:26	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	MS	QC331760	185438-005	111370	Water	16-MAR-2006 13:28	1.0	1.0		5.000	46108784001	5.050	0.20	ug/L	101		
11370	MSD	QC331761	185438-005	111370	Water	16-MAR-2006 13:30	1.0	1.0		5.000	46108784001	5.110	0.20	ug/L	102	1	
11370	SAMPLE	185438-006		111370	Water	16-MAR-2006 13:32	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185438-007		111370	Water	16-MAR-2006 13:33	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185438-008		111370	Water	16-MAR-2006 13:35	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185504-001		111370	Water	16-MAR-2006 13:37	1.0	1.0			46108784001	0.22	0.20	ug/L			
11370	CCV					16-MAR-2006 13:39	1.0	1.0	3	2.500	46108784001	2.770		ug/L	111		
11370	CCB					16-MAR-2006 13:41	1.0	1.0			46108784001	[0.04000]	0.20	ug/L			
11370	SAMPLE	185504-002		111370	Water	16-MAR-2006 13:43	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185521-001		111370	Water	16-MAR-2006 13:45	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185521-001		111370	Filtra	16-MAR-2006 13:47	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185527-001		111370	Filtra	16-MAR-2006 13:48	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185527-002		111370	Filtra	16-MAR-2006 13:50	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185527-003		111370	Filtra	16-MAR-2006 13:53	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185527-004		111370	Filtra	16-MAR-2006 13:55	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185538-001		111370	Water	16-MAR-2006 13:56	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185544-001		111370	Water	16-MAR-2006 13:58	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185548-001		111370	Water	16-MAR-2006 14:00	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	CCV					16-MAR-2006 14:02	1.0	1.0	4	5.000	46108784001	5.490		ug/L	110		
11370	CCB					16-MAR-2006 14:04	1.0	1.0			46108784001	[0.03500]	0.20	ug/L			
11370	SAMPLE	185553-002		111370	Water	16-MAR-2006 14:05	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185555-001		111370	Water	16-MAR-2006 14:07	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185557-001		111370	Water	16-MAR-2006 14:09	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185557-005		111370	Water	16-MAR-2006 14:11	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185566-001		111370	Water	16-MAR-2006 14:14	1.0	1.0			46108784001	9.8	0.20	ug/L			
11370	CCV					16-MAR-2006 14:16	1.0	1.0	5	7.500	46108784001	7.810		ug/L	104		
11370	CCB					16-MAR-2006 14:18	1.0	1.0			46108784001	[0.01100]	0.20	ug/L			

; used: 1=S2922 2=S2924 3=S2925 4=S2926 5=S2927

lyst: [signature] Date: 3/16/06

Curtis & Tompkins Laboratories **Sample Preparation Summary** **16-MAR-2006 11:46**

Batch Number : 111380
Date Extracted: 16-MAR-2006
Extracted by : Kale Clauson
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : mL
Clean-up :

Spike #1 ID : S2922
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185426-001			Blasland, Bouck & Lee	WET Leacha	10	mL	50	5.000000	1					T26/HG		
185457-001			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185457-002			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185457-005			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185457-006			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185457-007			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185457-008			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185457-016			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185511-012			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185511-013			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185516-001			Tesoro Golden Eagle Refinery	Filtrate	50	mL	50	1.000000	1					T26/HG		
185516-002			Tesoro Golden Eagle Refinery	Filtrate	50	mL	50	1.000000	1					T26/HG		
185516-003			Tesoro Golden Eagle Refinery	Filtrate	50	mL	50	1.000000	1					T26/HG		
185558-015			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185568-001			LA Chemical	Water	50	mL	50	1.000000	1					HG		
QC331792	BLANK			Filtrate	50	mL	50	1.000000	1					HG		
QC331793	BLANK			WET Leacha	10	mL	50	5.000000	1					HG		
QC331794	BS			Filtrate	50	mL	50	1.000000	1		2.5			HG		
QC331795	BSD			Filtrate	50	mL	50	1.000000	1		2.5			HG		
QC331796	MS	of 185457-016		Filtrate	50	mL	50	1.000000	1		2.5			HG		
QC331797	MSD	of 185457-016		Filtrate	50	mL	50	1.000000	1		2.5			HG		
QC331798	MS	of 185426-001		WET Leacha	10	mL	50	5.000000	1		2.5			HG		
QC331799	MSD	of 185426-001		WET Leacha	10	mL	50	5.000000	1		2.5			HG		

Prep Chemist: _____ Reviewed By: K Carlyn Date: 3/16/06

Relinquished By: _____ Received By: _____ Date: 3/16/06

Water Digestion for Mercury

Curtis & Tompkins, Ltd

LIMS Batch #: 111380
Date Digested: 3/16/06
Digested by: KMC

Digestion Method
☒ EPA 7470A/ EPA 245.1
☐ _____

BK 2277
Page 21

Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
185426 - 001 MSS	10	50	N	WET LEACHATE
185457 - 001 G	50			FILTRATE
002				
005				
006				
007				
008				
016 MSS S				
185511 - 012 N				
013				
185516 - 001 D				
KMC 3/16 ~~003~~ 002				
003				
185558 - 015 G				
185568 - 001 A				WATER
BLANK				FILTRATE
BLANK	10			WET LEACHATE
BS	50			FILTRATE
BSD				
MS 185457 - 016				
MSD 185457 - 016				
MS 185426 - 001	10			WET LEACHATE
MSD 185426 - 001				

	Reagent ID/ LIMS# / Time	Initials / Date
2.5 mL of spike solution was added to all spikes	S2922	KMC 3/16
ICAL Source WS#	S2922	
ICV / CCV WS#	S2924/25/26/27	
Digestion of Samples & Standards: Time ON / Temperature ON	1120 / 95°C	
Time OFF/ Temperature OFF	120 / 95°C	
concentrated H_2SO_4	B03032	
concentrated HNO_3	B49053	
5% $KMnO_4$	K 031006	
5% $K_2S_2O_8$	K_2 021406	
NaCl.hydroxylamine hydrochloride	Hy 022806	
Stannous Chloride	$SnCl_2$ 031306	
☐ filtered thru' 0.45 um syringe filter	—	

Continued from page ____

Continued on page ____

3/16/06
Prep Chemist / Date

KCarly 03/16/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 6020 Water 200.8
As of 04/08/06

Analyte	Units	MET05
Aluminum	ug/L	1.0
Antimony	ug/L	0.078
Arsenic	ug/L	0.65
Barium	ug/L	0.23
Beryllium	ug/L	0.055
Cadmium	ug/L	0.14
Calcium	ug/L	15
Chromium	ug/L	0.085
Cobalt	ug/L	0.034
Copper	ug/L	0.31
Iron	ug/L	4.2
Lead	ug/L	0.24
Magnesium	ug/L	2.1
Manganese	ug/L	0.082
Molybdenum	ug/L	0.062
Nickel	ug/L	0.16
Potassium	ug/L	8.9
Selenium	ug/L	0.35
Silver	ug/L	0.041
Sodium	ug/L	15
Thallium	ug/L	0.073
Vanadium	ug/L	0.15
Zinc	ug/L	0.52

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 7470A Water
As of 04/08/06

Analyte	Units	MET04
Mercury	ug/L	0.080

GENERAL CHEMISTRY

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Diln Fac:	1.000
Units:	mg/L	Received:	03/10/06

Field ID:	LF5GW103	Batch#:	111523
Type:	SAMPLE	Sampled:	03/09/06
Lab ID:	185457-001	Analyzed:	03/21/06

Analyte	Result	RL
Alkalinity, Bicarbonate	350	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	350	1.0

Field ID:	LF5GW102	Batch#:	111523
Type:	SAMPLE	Sampled:	03/09/06
Lab ID:	185457-002	Analyzed:	03/21/06

Analyte	Result	RL
Alkalinity, Bicarbonate	190	1.0
Alkalinity, Carbonate	120	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	310	1.0

Field ID:	1349MW104	Batch#:	111523
Type:	SAMPLE	Sampled:	03/09/06
Lab ID:	185457-005	Analyzed:	03/21/06

Analyte	Result	RL
Alkalinity, Bicarbonate	710	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	710	1.0

Field ID:	1349MW103	Batch#:	111523
Type:	SAMPLE	Sampled:	03/09/06
Lab ID:	185457-006	Analyzed:	03/21/06

Analyte	Result	RL
Alkalinity, Bicarbonate	670	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	670	1.0

ND= Not Detected
RL= Reporting Limit

700

REVISED 120.2
04/27/06

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Diln Fac:	1.000
Units:	mg/L	Received:	03/10/06

Field ID:	LF5GW101	Batch#:	111552
Type:	SAMPLE	Sampled:	03/09/06
Lab ID:	185457-007	Analyzed:	03/22/06

Analyte	Result	RL
Alkalinity, Bicarbonate	390	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	390	1.0

Field ID:	LF5GW100	Batch#:	111523
Type:	SAMPLE	Sampled:	03/09/06
Lab ID:	185457-008	Analyzed:	03/21/06

Analyte	Result	RL
Alkalinity, Bicarbonate	420	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	420	1.0

Field ID:	231GW10	Batch#:	111523
Type:	SAMPLE	Sampled:	03/09/06
Lab ID:	185457-009	Analyzed:	03/21/06

Analyte	Result	RL
Alkalinity, Bicarbonate	820	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	820	1.0

Field ID:	231GW30	Batch#:	111523
Type:	SAMPLE	Sampled:	03/09/06
Lab ID:	185457-010	Analyzed:	03/21/06

Analyte	Result	RL
Alkalinity, Bicarbonate	480	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	480	1.0

ND= Not Detected
RL= Reporting Limit

701

REVISED
CW 4/27/06

120.2

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Diln Fac:	1.000
Units:	mg/L	Received:	03/10/06

Field ID:	231GW22	Batch#:	111523
Type:	SAMPLE	Sampled:	03/09/06
Lab ID:	185457-011	Analyzed:	03/21/06

Analyte	Result	RL
Alkalinity, Bicarbonate	740	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	740	1.0

Field ID:	DUP0309061A	Batch#:	111523
Type:	SAMPLE	Sampled:	03/09/06
Lab ID:	185457-012	Analyzed:	03/21/06

Analyte	Result	RL
Alkalinity, Bicarbonate	760	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	760	1.0

Field ID:	231GW16	Batch#:	111523
Type:	SAMPLE	Sampled:	03/09/06
Lab ID:	185457-013	Analyzed:	03/21/06

Analyte	Result	RL
Alkalinity, Bicarbonate	480	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	480	1.0

Field ID:	1065PZ4A	Batch#:	111523
Type:	SAMPLE	Sampled:	03/09/06
Lab ID:	185457-014	Analyzed:	03/21/06

Analyte	Result	RL
Alkalinity, Bicarbonate	640	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	640	1.0

ND= Not Detected
RL= Reporting Limit

702

REVISED
CW 4/27/06

120.2

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Diln Fac:	1.000
Units:	mg/L	Received:	03/10/06

Field ID:	1349MW02	Batch#:	111523
Type:	SAMPLE	Sampled:	03/10/06
Lab ID:	185457-016	Analyzed:	03/21/06

Analyte	Result	RL
Alkalinity, Bicarbonate	660	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	660	1.0

Field ID:	231PZ02	Batch#:	111523
Type:	SAMPLE	Sampled:	03/10/06
Lab ID:	185457-017	Analyzed:	03/21/06

Analyte	Result	RL
Alkalinity, Bicarbonate	890	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	890	1.0

Field ID:	1065PZ3B	Batch#:	111523
Type:	SAMPLE	Sampled:	03/09/06
Lab ID:	185457-021	Analyzed:	03/21/06

Analyte	Result	RL
Alkalinity, Bicarbonate	250	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	250	1.0

Field ID:	1065MW9B	Batch#:	111523
Type:	SAMPLE	Sampled:	03/09/06
Lab ID:	185457-022	Analyzed:	03/21/06

Analyte	Result	RL
Alkalinity, Bicarbonate	240	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	240	1.0

ND= Not Detected
RL= Reporting Limit

703

REVISED
CW 4/27/06

120.2

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Diln Fac:	1.000
Units:	mg/L	Received:	03/10/06

Field ID:	1065MW9A	Batch#:	111523
Type:	SAMPLE	Sampled:	03/09/06
Lab ID:	185457-023	Analyzed:	03/21/06

Analyte	Result	RL
Alkalinity, Bicarbonate	460	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	460	1.0

Field ID:	DUP0309062B	Batch#:	111523
Type:	SAMPLE	Sampled:	03/09/06
Lab ID:	185457-024	Analyzed:	03/21/06

Analyte	Result	RL
Alkalinity, Bicarbonate	420	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	420	1.0

Field ID:	1065MW11A	Batch#:	111523
Type:	SAMPLE	Sampled:	03/09/06
Lab ID:	185457-025	Analyzed:	03/21/06

Analyte	Result	RL
Alkalinity, Bicarbonate	120	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	120	1.0

Field ID:	1065MW10B	Batch#:	111523
Type:	SAMPLE	Sampled:	03/09/06
Lab ID:	185457-026	Analyzed:	03/21/06

Analyte	Result	RL
Alkalinity, Bicarbonate	230	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	230	1.0

ND= Not Detected
RL= Reporting Limit

704

REVISED
CW 4/24/06

120.2

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Diln Fac:	1.000
Units:	mg/L	Received:	03/10/06

Field ID:	1065PZ6B	Batch#:	111552
Type:	SAMPLE	Sampled:	03/10/06
Lab ID:	185457-027	Analyzed:	03/22/06

Analyte	Result	RL
Alkalinity, Bicarbonate	230	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	230	1.0

Type:	BLANK	Batch#:	111523
Lab ID:	QC332406	Analyzed:	03/21/06

Analyte	Result	RL
Alkalinity, Bicarbonate	ND	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	ND	1.0

Type:	BLANK	Batch#:	111552
Lab ID:	QC332510	Analyzed:	03/22/06

Analyte	Result	RL
Alkalinity, Bicarbonate	ND	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	ND	1.0

ND= Not Detected
RL= Reporting Limit

705

REVISED
CW 4/27/06

120.2

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Units:	mg/L
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC332407	Batch#:	111523
Matrix:	Water	Analyzed:	03/21/06

Spiked	Result	%REC	Limits
200.0	182.3	91	90-110

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Units:	mg/L
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC332511	Batch#:	111552
Matrix:	Water	Analyzed:	03/22/06

Spiked	Result	%REC	Limits
200.0	189.7	95	90-110

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Diln Fac:	1.000
Field ID:	231GW10	Batch#:	111523
MSS Lab ID:	185457-009	Sampled:	03/09/06
Matrix:	Water	Received:	03/10/06
Units:	mg/L	Analyzed:	03/21/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC332408	818.4	200.0	1,004	93	69-112		
MSD	QC332409		200.0	997.0	89	69-112	1	25

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Diln Fac:	1.000
Field ID:	1349MW02	Batch#:	111523
MSS Lab ID:	185457-016	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	mg/L	Analyzed:	03/21/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC332410	658.4	200.0	829.6	86	69-112		
MSD	QC332411		200.0	837.0	89	69-112	1	25

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Diln Fac:	1.000
Field ID:	1065PZ6B	Batch#:	111552
MSS Lab ID:	185457-027	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	mg/L	Analyzed:	03/22/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC332512	226.9	200.0	424.1	99	69-112		
MSD	QC332513		200.0	416.6	95	69-112	2	25

RPD= Relative Percent Difference

Analysis: **Alkalinity** Analysis Date: **03/21/06** H_2SO_4 Normality = **0.0186**

Method: **EPA 310.1 /** SMWW 2320B Batch No: **111523** conc.(mg/L) Na_2CO_3 for QC = **200**

SOP#: Alkalinity_rv 6.doc Analyst: RS

SAMPLE	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alkalinity Volume (4.5-4.2) (mL)	**Low Alkalinity** as $CaCO_3$ (mg/L)	Reporting Limit (mg/L)
185457-001	7.76	25	0.00	9.40	349.68		n/a	1.0
185457-002	9.27	25	1.60	8.30	308.76		n/a	1.0
185457-005	7.73	25	0.00	19.00	706.80		n/a	1.0
185457-006	7.67	25	0.00	18.00	669.60		n/a	1.0
185457-008	8.21	25	0.00	11.20	416.64		n/a	1.0
185457-009	7.74	25	0.00	22.00	818.40		n/a	1.0
185457-010	7.28	25	0.00	13.00	483.60		n/a	1.0
185457-011	6.90	25	0.00	19.80	736.56		n/a	1.0
185457-012	6.91	25	0.00	20.50	762.60		n/a	1.0
185457-013	7.59	25	0.00	13.00	483.60		n/a	1.0
185457-014	7.02	25	0.00	17.30	643.56		n/a	1.0
185457-016	7.51	25	0.00	17.70	658.44		n/a	1.0
185457-017	7.49	25	0.00	24.00	892.80		n/a	1.0
185457-021	6.99	25	0.00	6.80	252.96		n/a	1.0
185457-022	7.11	25	0.00	6.50	241.80		n/a	1.0
185457-023	7.15	25	0.00	12.30	457.56		n/a	1.0
185457-024	6.87	25	0.00	11.20	416.64		n/a	1.0
185457-025	7.07	25	0.00	3.30	122.76		n/a	1.0
185457-026	7.21	25	0.00	6.20	230.64		n/a	1.0

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QC DATA	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alk Vol (mL)	**Low Alk** as $CaCO_3$ (mg/L)	RL (mg/L)	% Rec.	% RPD
MB	5	25	0.00	0.00	ND			1.0		
LCS	9.54	25	1.80	4.90	182.28			1.0	91	
185457-009	7.74	25	0.00	22.00	818.40			1.0		
MS	7.71	25	0.00	27.00	1004.40			1.0	93	
MSD	7.67	25	0.00	26.80	996.96			1.0	89	1
185457-016	7.51	25	0.00	17.70	658.44			1.0		
MS	8.18	25	0.00	22.30	829.56			1.0	86	
MSD	8.23	25	0.00	22.50	837.00			1.0	89	1

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	25	80 - 120

Reviewed by/ Date: 3-22-06

Template: F:\inorgan\wetstuff\alkalinity.xls
Ver.8.3, Effective 6/03/04

Analysis: **Alkalinity** Analysis Date: 03/21/06 H_2SO_4 Normality = 0.0186
Method: **EPA 310.1** Batch No: 111523 Analyst: RS

SAMPLE	(P)	(T-P)	**Total Alkalinty** as $CaCO_3$ (mg/L)	**Bicarbonate Alkalinity**	**Carbonate Alkalinity** as $CaCO_3$ (mg/L)	**Hydroxide Alkalinity**
185457-001	0.0	349.7	349.68	349.680	0.000	0.000
185457-002	59.5	249.2	308.76	189.720	119.040	0.000
185457-005	0.0	706.8	706.8	706.800	0.000	0.000
185457-006	0.0	669.6	669.6	669.600	0.000	0.000
185457-008	0.0	416.6	416.64	416.640	0.000	0.000
185457-009	0.0	818.4	818.4	818.400	0.000	0.000
185457-010	0.0	483.6	483.6	483.600	0.000	0.000
185457-011	0.0	736.6	736.56	736.560	0.000	0.000
185457-012	0.0	762.6	762.6	762.600	0.000	0.000
185457-013	0.0	483.6	483.6	483.600	0.000	0.000
185457-014	0.0	643.6	643.56	643.560	0.000	0.000
185457-016	0.0	658.4	658.44	658.440	0.000	0.000
185457-017	0.0	892.8	892.8	892.800	0.000	0.000
185457-021	0.0	253.0	252.96	252.960	0.000	0.000
185457-022	0.0	241.8	241.8	241.800	0.000	0.000
185457-023	0.0	457.6	457.56	457.560	0.000	0.000
185457-024	0.0	416.6	416.64	416.640	0.000	0.000
185457-025	0.0	122.8	122.76	122.760	0.000	0.000
185457-026	0.0	230.6	230.64	230.640	0.000	0.000

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P: Phenolphthalein Alkalinity (using volume to pH 8.3)
T-P: Total Alkalinity minus Phenolphthalein Alkalinity

Carbonate Alkalinity = 2x the smaller of P or (T-P)
Bicarbonate Alkalinity = (T-2P) when P < (T-P)
Hydroxide Alkalinity = (2P-T) when (T-P) < P

Analysis: **Alkalinity** Analysis Date: 03/21/06 H_2SO_4 Normality = 0.0186
Method: **EPA 310.1** Batch No: 111523 Analyst: RS

SAMPLE	**Total Alkalinty** as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity **as HCO_3^- (mg/L)**	Carbonate Alkalinity **as CO_3^{2-} (mg/L)**	Hydroxide Alkalinity **as OH^- (mg/L)**
185457-001	349.68	426.35	0.000	0.00
185457-002	308.76	231.32	71.385	0.00
185457-005	706.8	861.76	0.000	0.00
185457-006	669.6	816.41	0.000	0.00
185457-008	416.64	507.99	0.000	0.00
185457-009	818.4	997.83	0.000	0.00
185457-010	483.6	589.63	0.000	0.00
185457-011	736.56	898.05	0.000	0.00
185457-012	762.6	929.80	0.000	0.00
185457-013	483.6	589.63	0.000	0.00
185457-014	643.56	784.66	0.000	0.00
185457-016	658.44	802.80	0.000	0.00
185457-017	892.8	1088.54	0.000	0.00
185457-021	252.96	308.42	0.000	0.00
185457-022	241.8	294.81	0.000	0.00
185457-023	457.56	557.88	0.000	0.00
185457-024	416.64	507.99	0.000	0.00
185457-025	122.76	149.67	0.000	0.00
185457-026	230.64	281.21	0.000	0.00

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Alkalinity Benchbook EPA 310.1 / SMWW 2320B Curtis & Tompkins, Ltd.

LIMS Batch #: 111523 Date: 3-21-06 Benchbook#: **BK 2255**
Matrix: H2O Time: 10:30 Page: **16**

CAL-ph 4.0: SS#: 05-514
CAL-ph 7.0: SS#: 5177
CAL-ph 10.0: SS#: 51169
Slope: 97.8
(slope limits: 92 - 102)

$CaCO_3$ Vol (mgL) Spiked: 5
$CaCO_3$ Conc (mg/L): 1,000
$CaCO_3$ WS#: 51576
H_2SO_4 Normality: 0.0186
H_2SO_4 Reagent ID: 7-27-06

	Sample # / Letter	Sample Vol. Titrated (mL)	Initial pH (S.U.)	H_2SO_4 Vol (mL) to pH 8.3	H_2SO_4 Vol (mL) to pH 4.5 *	Low Alk TotalVol (mL)	Comments
1	MB	25	5.00	—	<0.05		
	LCS		9.54	1.80	4.90		
	185457-001H		7.76	—	9.40		
	-002		9.27	1.6	8.30		
5	-005		7.73	—	19.00		
	-006		7.67	—	18.00		
	-008		8.21	—	11 ~~10~~ 20 RS 3/21/06		
	-009AF		7.74	—	22.00		
	MS -009		7.71	—	27.00		
10	MSD -009		7.67	—	26.80		
	-010K		7.28	—	13.00		
	-011		6.90	—	19.80		
	-012		6.91	—	20.50		
	-013		7.59	—	13.00		
15	-014H		7.02	—	17.30		
	-016W		7.51	—	17.70		
	MS -016		8.18	—	22.30		
	MSD -016		8.23	—	22.50		
	-017K		7.49	—	24.00		
20	-021F		6.99	—	6.80		
	-022		7.11	—	6.50		
	-023I		7.15	—	12.30		
	-024		6.87	—	11.20		
	-025F		7.07	—	3.30		
	-026		7.21	—	6.20		
					RS 3/22/06		

* If Acid Vol to 4.5 is < 2.0mL, redo using 100mL sample volume. If still < 2.0mL, go on to Low Alkalinity

RSCuFFa 3/21/06
Analyst / Date

Jason Spur 3/22/06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111523
Date Started: 21-MAR-2006
Batched by : Radia Shiffa

Analysis : ALKALINITY
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185457-001			Treadwell & Rollo	Water	ALKALINITY	22-MAR-2006
185457-002			Treadwell & Rollo	Water	ALKALINITY	22-MAR-2006
185457-005			Treadwell & Rollo	Water	ALKALINITY	22-MAR-2006
185457-006			Treadwell & Rollo	Water	ALKALINITY	22-MAR-2006
185457-008			Treadwell & Rollo	Water	ALKALINITY	22-MAR-2006
185457-009			Treadwell & Rollo	Water	ALKALINITY	22-MAR-2006
185457-010			Treadwell & Rollo	Water	ALKALINITY	22-MAR-2006
185457-011			Treadwell & Rollo	Water	ALKALINITY	22-MAR-2006
185457-012			Treadwell & Rollo	Water	ALKALINITY	22-MAR-2006
185457-013			Treadwell & Rollo	Water	ALKALINITY	22-MAR-2006
185457-014			Treadwell & Rollo	Water	ALKALINITY	22-MAR-2006
185457-016			Treadwell & Rollo	Water	ALKALINITY	22-MAR-2006
185457-017			Treadwell & Rollo	Water	ALKALINITY	22-MAR-2006
185457-021			Treadwell & Rollo	Water	ALKALINITY	22-MAR-2006
185457-022			Treadwell & Rollo	Water	ALKALINITY	22-MAR-2006
185457-023			Treadwell & Rollo	Water	ALKALINITY	22-MAR-2006
185457-024			Treadwell & Rollo	Water	ALKALINITY	22-MAR-2006
185457-025			Treadwell & Rollo	Water	ALKALINITY	22-MAR-2006
185457-026			Treadwell & Rollo	Water	ALKALINITY	22-MAR-2006
QC332406	BLANK			Water	ALKALINITY	
QC332407	LCS			Water	ALKALINITY	
QC332408	MS	of 185457-009		Water	ALKALINITY	
QC332409	MSD	of 185457-009		Water	ALKALINITY	
QC332410	MS	of 185457-016		Water	ALKALINITY	
QC332411	MSD	of 185457-016		Water	ALKALINITY	

Analysis: **Alkalinity** Analysis Date: **03/22/06** H_2SO_4 Normality = **0.0186**

Method: **EPA 310.1 /** SMWW 2320B Batch No: **111552** conc.(mg/L) Na_2CO_3 for QC = **200**

SOP#: Alkalinity_rv 6.doc Analyst: RS

SAMPLE	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alkalinity Volume (4.5-4.2) (mL)	**Low Alkalinity** as $CaCO_3$ (mg/L)	Reporting Limit (mg/L)
185457-007	8.17	25	0.00	10.40	386.88		n/a	1.0
185457-027	6.79	25	0.00	6.10	226.92		n/a	1.0
185578-001	7.00	5	0.00	63.50	11811.00		n/a	5.0
185578-004	5.41	5	0.00	23.90	4445.40		n/a	5.0

QC DATA	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alk Vol (mL)	**Low Alk** as $CaCO_3$ (mg/L)	RL (mg/L)	% Rec.	% RPD
MB	5.19	25	0.00	0.00	ND			1.0		
LCS	9.52	25	1.80	5.10	189.72			1.0	95	
185457-027	6.79	25	0.00	6.10	226.92			1.0		
MS	7.84	25	0.00	11.40	424.08			1.0	99	
MSD	7.9	25	0.00	11.20	416.64			1.0	95	2

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	25	80 - 120

Reviewed by/ Date: 3-22-6

716

Analysis: **Alkalinity** Analysis Date: 03/22/06 H_2SO_4 Normality = 0.0186
Method: **EPA 310.1** Batch No: 111552 Analyst: RS

SAMPLE	(P)	(T-P)	**Total Alkalinty** as $CaCO_3$ (mg/L)	**Bicarbonate Alkalinity**	**Carbonate Alkalinity** as $CaCO_3$ (mg/L)	**Hydroxide Alkalinity**
185457-007	0.0	386.9	386.88	386.880	0.000	0.000
185457-027	0.0	226.9	226.92	226.920	0.000	0.000
185578-001	0.0	11811.0	11811	11811.000	0.000	0.000
185578-004	0.0	4445.4	4445.4	4445.400	0.000	0.000

P: Phenolphthalein Alkalinity (using volume to pH 8.3)
T-P: Total Alkalinity minus Phenolphthalein Alkalinity

Carbonate Alkalinity = 2x the smaller of P or (T-P)
Bicarbonate Alkalinity = (T-2P) when P < (T-P)
Hydroxide Alkalinity = (2P-T) when (T-P) < P

Analysis: **Alkalinity** Analysis Date: 03/22/06 H_2SO_4 Normality = 0.0186
Method: **EPA 310.1** Batch No: 111552 Analyst: RS

SAMPLE	**Total Alkalinty** as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity **as HCO_3^- (mg/L)**	Carbonate Alkalinity **as CO_3^{2-} (mg/L)**	Hydroxide Alkalinity **as OH^- (mg/L)**
185457-007	386.88	471.70	0.000	0.00
185457-027	226.92	276.67	0.000	0.00
185578-001	11811	14400.53	0.000	0.00
185578-004	4445.4	5420.04	0.000	0.00

717

5

LIMS Batch #: 111552
Matrix: H2O

Date: 3-22-06
Time: 11:00

Benchbook#: **BK 2255**
Page: **17**

CAL-ph 4.0: SS#: 055514
CAL-ph 7.0: SS#: 5177
CAL-ph 10.0: SS#: 51169
Slope: 97.9
(slope limits: 92 - 102)

$CaCO_3$ Vol (mgL) Spiked: 5
$CaCO_3$ Conc (mg/L): 1,000
$CaCO_3$ WS#: 51576
H_2SO_4 Normality: 0.0186
H_2SO_4 Reagent ID: 7-27-06

nments	Sample # / Letter	Sample Vol. Titrated (mL)	Initial pH (S.U.)	H_2SO_4 Vol (mL) to pH 8.3	H_2SO_4 Vol (mL) to pH 4.5 *	Low Alk TotalVol (mL)	Comments
1	MB	25	5.19	—	<0.05		
	LCS	↓	9.52	1.80	5.10		
	185457-027P	↓	6.79	—	6.10		
	MS -027	↓	7.84	—	11.40		
5	MSD -027	↓	7.90	—	11.20		
	185578-001C	5	7.00	—	63.50		
	-004D	↓	5.41	—	23.90		
	185457-007H	25	8.17	—	10.40		
10	RS 3/22/06						
15							
20				RS	3/22/06		

lkalinity

* If Acid Vol to 4.5 is < 2.0mL, redo using 100mL sample volume. If still < 2.0mL, go on to Low Alkalinity.

RSCuffa 3/22/06
Analyst / Date

3-22-6
Reviewed by / Date

/ Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111552
Date Started: 22-MAR-2006
Batched by : Radia Shiffa

Analysis : ALKALINITY
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185457-007			Treadwell & Rollo	Water	ALKALINITY	22-MAR-2006
185457-027			Treadwell & Rollo	Water	ALKALINITY	22-MAR-2006
185578-001			Alta Environmental	Water	ALKALINITY	22-MAR-2006
185578-004			Alta Environmental	Water	ALKALINITY	22-MAR-2006
QC332510	BLANK			Water	ALKALINITY	
QC332511	LCS			Water	ALKALINITY	
QC332512	MS	of 185457-027		Water	ALKALINITY	
QC332513	MSD	of 185457-027		Water	ALKALINITY	

Curtis & Tompkins, Ltd.

Chloride

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Units:	mg/L
Matrix:	Water	Received:	03/10/06

Field ID	Type	Lab ID	Result	RL	Diln Fac	Batch#	Sampled	Analyzed
LF5GW103	SAMPLE	185457-001	190	5.0	25.00	111216	03/09/06 09:40	03/11/06 00:14
LF5GW102	SAMPLE	185457-002	220	5.0	25.00	111216	03/09/06 10:50	03/11/06 00:31
1349MW104	SAMPLE	185457-005	860	20	100.0	111216	03/09/06 14:10	03/11/06 08:24
1349MW103	SAMPLE	185457-006	930	20	100.0	111216	03/09/06 15:35	03/11/06 09:51
LF5GW101	SAMPLE	185457-007	250	5.0	25.00	111216	03/09/06 09:50	03/11/06 00:49
LF5GW100	SAMPLE	185457-008	310	5.0	25.00	111216	03/09/06 11:05	03/11/06 01:06
231GW10	SAMPLE	185457-009	45	5.0	25.00	111216	03/09/06 13:40	03/10/06 17:48
231GW30	SAMPLE	185457-010	42	2.0	10.00	111216	03/09/06 14:05	03/11/06 10:09
231GW22	SAMPLE	185457-011	57	5.0	25.00	111216	03/09/06 15:10	03/11/06 10:26
DUP0309061A	SAMPLE	185457-012	57	5.0	25.00	111216	03/09/06 15:45	03/11/06 11:01
231GW16	SAMPLE	185457-013	230	5.0	25.00	111216	03/09/06 15:12	03/11/06 11:36
1065PZ4A	SAMPLE	185457-014	65	5.0	25.00	111216	03/09/06 16:25	03/11/06 11:54
1349MW02	SAMPLE	185457-016	740	10	50.00	111216	03/10/06 09:25	03/10/06 18:06
231PZ02	SAMPLE	185457-017	95	5.0	25.00	111215	03/10/06 09:40	03/11/06 01:28
1065PZ3B	SAMPLE	185457-021	67	2.0	10.00	111215	03/09/06 12:25	03/11/06 01:44
1065MW9B	SAMPLE	185457-022	55	2.0	10.00	111215	03/09/06 13:40	03/11/06 02:01
1065MW9A	SAMPLE	185457-023	170	5.0	25.00	111215	03/09/06 14:20	03/11/06 02:17
DUP0309062B	SAMPLE	185457-024	170	5.0	25.00	111215	03/09/06 14:00	03/11/06 02:34
1065MW11A	SAMPLE	185457-025	20	0.20	1.000	111215	03/09/06 13:15	03/10/06 23:50
1065MW10B	SAMPLE	185457-026	51	2.0	10.00	111215	03/09/06 16:10	03/11/06 04:12
1065PZ6B	SAMPLE	185457-027	88	2.0	10.00	111215	03/10/06 10:35	03/10/06 19:11
	BLANK	QC331096	ND	0.20	1.000	111215		03/10/06 18:21
	BLANK	QC331101	ND	0.20	1.000	111216		03/10/06 17:31

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Fluoride

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Diln Fac:	1.000
Matrix:	Water	Received:	03/10/06
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Batch#	Sampled	Analyzed
LF5GW103	SAMPLE	185457-001	ND	0.10	111216	03/09/06 09:40	03/10/06 21:19
LF5GW102	SAMPLE	185457-002	ND	0.10	111216	03/09/06 10:50	03/10/06 22:29
1349MW104	SAMPLE	185457-005	ND	0.10	111216	03/09/06 14:10	03/11/06 03:09
1349MW103	SAMPLE	185457-006	0.29	0.10	111216	03/09/06 15:35	03/11/06 04:19
LF5GW101	SAMPLE	185457-007	ND	0.10	111216	03/09/06 09:50	03/10/06 21:54
LF5GW100	SAMPLE	185457-008	ND	0.10	111216	03/09/06 11:05	03/10/06 23:04
231GW10	SAMPLE	185457-009	0.37	0.10	111216	03/09/06 13:40	03/10/06 23:39
231GW30	SAMPLE	185457-010	0.39	0.10	111216	03/09/06 14:05	03/11/06 01:24
231GW22	SAMPLE	185457-011	0.26	0.10	111216	03/09/06 15:10	03/10/06 20:08
DUP0309061A	SAMPLE	185457-012	0.26	0.10	111216	03/09/06 15:45	03/11/06 05:29
231GW16	SAMPLE	185457-013	0.45	0.10	111216	03/09/06 15:12	03/11/06 06:04
1065PZ4A	SAMPLE	185457-014	ND	0.10	111216	03/09/06 16:25	03/11/06 06:39
1349MW02	SAMPLE	185457-016	ND	0.10	111216	03/10/06 09:25	03/11/06 07:14
231PZ02	SAMPLE	185457-017	0.30	0.10	111215	03/10/06 09:40	03/10/06 19:27
1065PZ3B	SAMPLE	185457-021	ND	0.10	111215	03/09/06 12:25	03/10/06 20:00
1065MW9B	SAMPLE	185457-022	ND	0.10	111215	03/09/06 13:40	03/10/06 20:33
1065MW9A	SAMPLE	185457-023	0.12	0.10	111215	03/09/06 14:20	03/10/06 21:06
DUP0309062B	SAMPLE	185457-024	0.11	0.10	111215	03/09/06 14:00	03/10/06 23:17
1065MW11A	SAMPLE	185457-025	0.13	0.10	111215	03/09/06 13:15	03/10/06 23:50
1065MW10B	SAMPLE	185457-026	ND	0.10	111215	03/09/06 16:10	03/11/06 00:22
1065PZ6B	SAMPLE	185457-027	ND	0.10	111215	03/10/06 10:35	03/11/06 00:55
	BLANK	QC331096	ND	0.10	111215		03/10/06 18:21
	BLANK	QC331101	ND	0.10	111216		03/10/06 17:31

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrate Nitrogen

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Units:	mg/L
Matrix:	Water	Received:	03/10/06

Field ID	Type	Lab ID	Result	RL	Diln Fac	Batch#	Sampled	Analyzed
LF5GW103	SAMPLE	185457-001	4.9	0.05	1.000	111216	03/09/06 09:40	03/10/06 21:19
LF5GW102	SAMPLE	185457-002	0.49	0.05	1.000	111216	03/09/06 10:50	03/10/06 22:29
1349MW104	SAMPLE	185457-005	0.13	0.05	1.000	111216	03/09/06 14:10	03/11/06 03:09
1349MW103	SAMPLE	185457-006	ND	0.05	1.000	111216	03/09/06 15:35	03/11/06 04:19
LF5GW101	SAMPLE	185457-007	3.8	0.05	1.000	111216	03/09/06 09:50	03/10/06 21:54
LF5GW100	SAMPLE	185457-008	2.6	0.05	1.000	111216	03/09/06 11:05	03/10/06 23:04
231GW10	SAMPLE	185457-009	ND	0.05	1.000	111216	03/09/06 13:40	03/10/06 23:39
231GW30	SAMPLE	185457-010	0.13	0.05	1.000	111216	03/09/06 14:05	03/11/06 01:24
231GW22	SAMPLE	185457-011	ND	0.05	1.000	111216	03/09/06 15:10	03/10/06 20:08
DUP0309061A	SAMPLE	185457-012	ND	0.05	1.000	111216	03/09/06 15:45	03/11/06 05:29
231GW16	SAMPLE	185457-013	ND	0.05	1.000	111216	03/09/06 15:12	03/11/06 06:04
1065PZ4A	SAMPLE	185457-014	ND	0.05	1.000	111216	03/09/06 16:25	03/11/06 06:39
1349MW02	SAMPLE	185457-016	1.3	0.05	1.000	111216	03/10/06 09:25	03/11/06 07:14
231PZ02	SAMPLE	185457-017	ND	0.05	1.000	111215	03/10/06 09:40	03/10/06 19:27
1065PZ3B	SAMPLE	185457-021	2.4	0.05	1.000	111215	03/09/06 12:25	03/10/06 20:00
1065MW9B	SAMPLE	185457-022	5.4	0.50	10.00	111215	03/09/06 13:40	03/11/06 02:01
1065MW9A	SAMPLE	185457-023	ND	0.05	1.000	111215	03/09/06 14:20	03/10/06 21:06
DUP0309062B	SAMPLE	185457-024	ND	0.05	1.000	111215	03/09/06 14:00	03/10/06 23:17
1065MW11A	SAMPLE	185457-025	2.8	0.05	1.000	111215	03/09/06 13:15	03/10/06 23:50
1065MW10B	SAMPLE	185457-026	4.5	0.05	1.000	111215	03/09/06 16:10	03/11/06 00:22
1065PZ6B	SAMPLE	185457-027	4.3	0.05	1.000	111215	03/10/06 10:35	03/11/06 00:55
	BLANK	QC331096	ND	0.05	1.000	111215		03/10/06 18:21
	BLANK	QC331101	ND	0.05	1.000	111216		03/10/06 17:31

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrite Nitrogen

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Units:	mg/L
Matrix:	Water	Received:	03/10/06

Field ID	Type	Lab ID	Result	RL	Diln Fac	Batch#	Sampled	Analyzed
LF5GW103	SAMPLE	185457-001	ND	0.05	1.000	111216	03/09/06 09:40	03/10/06 21:19
LF5GW102	SAMPLE	185457-002	0.10	0.05	1.000	111216	03/09/06 10:50	03/10/06 22:29
1349MW104	SAMPLE	185457-005	ND	0.10	2.000	111216	03/09/06 14:10	03/11/06 03:44
1349MW103	SAMPLE	185457-006	ND	0.10	2.000	111216	03/09/06 15:35	03/11/06 04:54
LF5GW101	SAMPLE	185457-007	ND	0.05	1.000	111216	03/09/06 09:50	03/10/06 21:54
LF5GW100	SAMPLE	185457-008	ND	0.05	1.000	111216	03/09/06 11:05	03/10/06 23:04
231GW10	SAMPLE	185457-009	ND	0.05	1.000	111216	03/09/06 13:40	03/10/06 23:39
231GW30	SAMPLE	185457-010	ND	0.05	1.000	111216	03/09/06 14:05	03/11/06 01:24
231GW22	SAMPLE	185457-011	ND	0.05	1.000	111216	03/09/06 15:10	03/10/06 20:08
DUP0309061A	SAMPLE	185457-012	ND	0.05	1.000	111216	03/09/06 15:45	03/11/06 05:29
231GW16	SAMPLE	185457-013	ND	0.05	1.000	111216	03/09/06 15:12	03/11/06 06:04
1065PZ4A	SAMPLE	185457-014	ND	0.05	1.000	111216	03/09/06 16:25	03/11/06 06:39
1349MW02	SAMPLE	185457-016	ND	0.10	2.000	111216	03/10/06 09:25	03/11/06 07:49
231PZ02	SAMPLE	185457-017	ND	0.05	1.000	111215	03/10/06 09:40	03/10/06 19:27
1065PZ3B	SAMPLE	185457-021	ND	0.05	1.000	111215	03/09/06 12:25	03/10/06 20:00
1065MW9B	SAMPLE	185457-022	ND	0.05	1.000	111215	03/09/06 13:40	03/10/06 20:33
1065MW9A	SAMPLE	185457-023	ND	0.05	1.000	111215	03/09/06 14:20	03/10/06 21:06
DUP0309062B	SAMPLE	185457-024	ND	0.05	1.000	111215	03/09/06 14:00	03/10/06 23:17
1065MW11A	SAMPLE	185457-025	ND	0.05	1.000	111215	03/09/06 13:15	03/10/06 23:50
1065MW10B	SAMPLE	185457-026	ND	0.05	1.000	111215	03/09/06 16:10	03/11/06 00:22
1065PZ6B	SAMPLE	185457-027	ND	0.05	1.000	111215	03/10/06 10:35	03/11/06 00:55
	BLANK	QC331096	ND	0.05	1.000	111215		03/10/06 18:21
	BLANK	QC331101	ND	0.05	1.000	111216		03/10/06 17:31

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Sulfate

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Units:	mg/L
Matrix:	Water	Received:	03/10/06

Field ID	Type	Lab ID	Result	RL	Diln Fac	Batch#	Sampled	Analyzed
LF5GW103	SAMPLE	185457-001	27	0.50	1.000	111216	03/09/06 09:40	03/10/06 21:19
LF5GW102	SAMPLE	185457-002	22	0.50	1.000	111216	03/09/06 10:50	03/10/06 22:29
1349MW104	SAMPLE	185457-005	74	1.0	2.000	111216	03/09/06 14:10	03/11/06 03:44
1349MW103	SAMPLE	185457-006	110	50	100.0	111216	03/09/06 15:35	03/11/06 09:51
LF5GW101	SAMPLE	185457-007	29	0.50	1.000	111216	03/09/06 09:50	03/10/06 21:54
LF5GW100	SAMPLE	185457-008	34	0.50	1.000	111216	03/09/06 11:05	03/10/06 23:04
231GW10	SAMPLE	185457-009	3.5	0.50	1.000	111216	03/09/06 13:40	03/10/06 23:39
231GW30	SAMPLE	185457-010	17	0.50	1.000	111216	03/09/06 14:05	03/11/06 01:24
231GW22	SAMPLE	185457-011	ND	0.50	1.000	111216	03/09/06 15:10	03/10/06 20:08
DUP0309061A	SAMPLE	185457-012	ND	0.50	1.000	111216	03/09/06 15:45	03/11/06 05:29
231GW16	SAMPLE	185457-013	36	0.50	1.000	111216	03/09/06 15:12	03/11/06 06:04
1065PZ4A	SAMPLE	185457-014	ND	0.50	1.000	111216	03/09/06 16:25	03/11/06 06:39
1349MW02	SAMPLE	185457-016	78	1.0	2.000	111216	03/10/06 09:25	03/11/06 07:49
231PZ02	SAMPLE	185457-017	1.6	0.50	1.000	111215	03/10/06 09:40	03/10/06 19:27
1065PZ3B	SAMPLE	185457-021	83	5.0	10.00	111215	03/09/06 12:25	03/11/06 01:44
1065MW9B	SAMPLE	185457-022	73	5.0	10.00	111215	03/09/06 13:40	03/11/06 02:01
1065MW9A	SAMPLE	185457-023	22	0.50	1.000	111215	03/09/06 14:20	03/10/06 21:06
DUP0309062B	SAMPLE	185457-024	21	0.50	1.000	111215	03/09/06 14:00	03/10/06 23:17
1065MW11A	SAMPLE	185457-025	34	0.50	1.000	111215	03/09/06 13:15	03/10/06 23:50
1065MW10B	SAMPLE	185457-026	65	5.0	10.00	111215	03/09/06 16:10	03/11/06 04:12
1065PZ6B	SAMPLE	185457-027	97	5.0	10.00	111215	03/10/06 10:35	03/10/06 19:11
	BLANK	QC331096	ND	0.50	1.000	111215		03/10/06 18:21
	BLANK	QC331101	ND	0.50	1.000	111216		03/10/06 17:31

ND= Not Detected
RL= Reporting Limit

Batch QC Report

Chloride

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Units:	mg/L
Matrix:	Water	Received:	03/10/06

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Sampled	Analyzed
	BS		QC331097		4.000	3.876	97	80-120			1.000	111215		03/10/06 18:38
	BSD		QC331098		4.000	3.831	96	80-120	1	20	1.000	111215		03/10/06 18:54
1065PZ6B	MS	185457-027	QC331099	88.47	40.00	125.1	92	80-120			20.00	111215	03/10/06 10:35	03/10/06 21:38
1065PZ6B	MSD	185457-027	QC331100		40.00	125.2	92	80-120	0	25	20.00	111215	03/10/06 10:35	03/10/06 21:55
	BS		QC331102		4.000	3.987	100	80-120			1.000	111216		03/10/06 19:33
	BSD		QC331103		4.000	3.969	99	80-120	0	20	1.000	111216		03/10/06 19:51
231GW10	MS	185457-009	QC331104	45.46	50.00	96.02	101	80-120			25.00	111216	03/09/06 13:40	03/10/06 18:23
231GW10	MSD	185457-009	QC331105		50.00	95.59	100	80-120	0	25	25.00	111216	03/09/06 13:40	03/10/06 18:41
1349MW02	MS	185457-016	QC331106	735.2	200.0	919.4	92	80-120			100.0	111216	03/10/06 09:25	03/10/06 18:58
1349MW02	MSD	185457-016	QC331107		200.0	920.8	93	80-120	0	25	100.0	111216	03/10/06 09:25	03/10/06 19:16

725

RPD= Relative Percent Difference

44.0

Curtis & Tompkins, Ltd.

Batch QC Report

Fluoride

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Units:	mg/L
Matrix:	Water	Received:	03/10/06

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Sampled	Analyzed
	BS		QC331097		2.000	2.041	102	80-120			1.000	111215		03/10/06 18:38
	BSD		QC331098		2.000	2.002	100	80-120	2	20	1.000	111215		03/10/06 18:54
1065PZ6B	MS	185457-027	QC331099	0.05795	20.00	19.58	98	77-120			20.00	111215	03/10/06 10:35	03/10/06 21:38
1065PZ6B	MSD	185457-027	QC331100		20.00	19.62	98	77-120	0	20	20.00	111215	03/10/06 10:35	03/10/06 21:55
	BS		QC331102		2.000	1.937	97	80-120			1.000	111216		03/10/06 19:33
	BSD		QC331103		2.000	1.946	97	80-120	0	20	1.000	111216		03/10/06 19:51
231GW10	MS	185457-009	QC331104	0.3735	25.00	24.19	95	77-120			25.00	111216	03/09/06 13:40	03/10/06 18:23
231GW10	MSD	185457-009	QC331105		25.00	24.00	95	77-120	1	20	25.00	111216	03/09/06 13:40	03/10/06 18:41
1349MW02	MS	185457-016	QC331106	0.09188	100.0	95.56	95	77-120			100.0	111216	03/10/06 09:25	03/10/06 18:58
1349MW02	MSD	185457-016	QC331107		100.0	96.25	96	77-120	1	20	100.0	111216	03/10/06 09:25	03/10/06 19:16

726

RPD= Relative Percent Difference

46.0

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrate Nitrogen

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Units:	mg/L
Matrix:	Water	Received:	03/10/06

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Sampled	Analyzed
	BS		QC331097		1.000	0.9892	99	80-120			1.000	111215		03/10/06 18:38
	BSD		QC331098		1.000	0.9951	100	80-120	1	20	1.000	111215		03/10/06 18:54
1065PZ6B	MS	185457-027	QC331099	4.265	10.00	13.77	95	80-120			20.00	111215	03/10/06 10:35	03/10/06 21:38
1065PZ6B	MSD	185457-027	QC331100		10.00	14.02	98	80-120	2	25	20.00	111215	03/10/06 10:35	03/10/06 21:55
	BS		QC331102		1.000	1.016	102	80-120			1.000	111216		03/10/06 19:33
	BSD		QC331103		1.000	1.013	101	80-120	0	20	1.000	111216		03/10/06 19:51
231GW10	MS	185457-009	QC331104	<0.01819	12.50	12.59	101	80-120			25.00	111216	03/09/06 13:40	03/10/06 18:23
231GW10	MSD	185457-009	QC331105		12.50	12.32	99	80-120	2	25	25.00	111216	03/09/06 13:40	03/10/06 18:41
1349MW02	MS	185457-016	QC331106	1.333	50.00	51.04	99	80-120			100.0	111216	03/10/06 09:25	03/10/06 18:58
1349MW02	MSD	185457-016	QC331107		50.00	50.94	99	80-120	0	25	100.0	111216	03/10/06 09:25	03/10/06 19:16

727

RPD= Relative Percent Difference

48.0

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrite Nitrogen

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Units:	mg/L
Matrix:	Water	Received:	03/10/06

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Sampled	Analyzed
	BS		QC331097		1.000	0.9741	97	80-120			1.000	111215		03/10/06 18:38
	BSD		QC331098		1.000	0.9692	97	80-120	1	20	1.000	111215		03/10/06 18:54
1065PZ6B	MS	185457-027	QC331099	<0.01206	10.00	9.507	95	80-120			20.00	111215	03/10/06 10:35	03/10/06 21:38
1065PZ6B	MSD	185457-027	QC331100		10.00	9.665	97	80-120	2	25	20.00	111215	03/10/06 10:35	03/10/06 21:55
	BS		QC331102		1.000	0.9816	98	80-120			1.000	111216		03/10/06 19:33
	BSD		QC331103		1.000	0.9815	98	80-120	0	20	1.000	111216		03/10/06 19:51
231GW10	MS	185457-009	QC331104	<0.006664	12.50	12.17	97	80-120			25.00	111216	03/09/06 13:40	03/10/06 18:23
231GW10	MSD	185457-009	QC331105		12.50	12.05	96	80-120	1	25	25.00	111216	03/09/06 13:40	03/10/06 18:41
1349MW02	MS	185457-016	QC331106	<0.01333	50.00	49.77	100	80-120			100.0	111216	03/10/06 09:25	03/10/06 18:58
1349MW02	MSD	185457-016	QC331107		50.00	49.11	98	80-120	1	25	100.0	111216	03/10/06 09:25	03/10/06 19:16

728

RPD= Relative Percent Difference

50.0

Curtis & Tompkins, Ltd.

Batch QC Report

Sulfate

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Units:	mg/L
Matrix:	Water	Received:	03/10/06

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Sampled	Analyzed
	BS		QC331097		10.00	9.826	98	80-120			1.000	111215		03/10/06 18:38
	BSD		QC331098		10.00	9.643	96	80-120	2	20	1.000	111215		03/10/06 18:54
1065PZ6B	MS	185457-027	QC331099	97.15	100.0	193.8	97	80-120			20.00	111215	03/10/06 10:35	03/10/06 21:38
1065PZ6B	MSD	185457-027	QC331100		100.0	194.3	97	80-120	0	25	20.00	111215	03/10/06 10:35	03/10/06 21:55
	BS		QC331102		10.00	10.09	101	80-120			1.000	111216		03/10/06 19:33
	BSD		QC331103		10.00	9.921	99	80-120	2	20	1.000	111216		03/10/06 19:51
231GW10	MS	185457-009	QC331104	3.495	125.0	127.7	99	80-120			25.00	111216	03/09/06 13:40	03/10/06 18:23
231GW10	MSD	185457-009	QC331105		125.0	127.7	99	80-120	0	25	25.00	111216	03/09/06 13:40	03/10/06 18:41
1349MW02	MS	185457-016	QC331106	78.30	500.0	566.3	98	80-120			100.0	111216	03/10/06 09:25	03/10/06 18:58
1349MW02	MSD	185457-016	QC331107		500.0	571.3	99	80-120	1	25	100.0	111216	03/10/06 09:25	03/10/06 19:16

729

RPD= Relative Percent Difference

52.0

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185457 IC Water: EPA 300.0

Inst : IC01
Calnum : 606046871001
Units : mg/L

Date : 01-FEB-2006 13:28
X Axis : A

Reviewer: MCH
Inj Vol : 25 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	032_2.000	606046871002	L1	01-FEB-2006 13:28	S1888 (500X)
L2	032_3.000	606046871003	L2	01-FEB-2006 13:46	S1888 (100X)
L3	032_4.000	606046871004	L3	01-FEB-2006 14:03	S1888 (25X)
L4	032_5.000	606046871005	L4	01-FEB-2006 14:21	S1888 (10X)
L5	032_6.000	606046871006	L5	01-FEB-2006 14:38	S1888 (5X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Fluoride	0.2528	0.2613	0.2883	0.2940	0.3105	QORG		0.27855	0.003187	0.2814	1.000	0.990	
Chloride	0.1745	0.1698	0.1822	0.1890	0.2055	QORG		0.17357	0.001594	0.1842	1.000	0.990	
Nitrogen, Nitrite	0.3864	0.3575	0.3722	0.3676	0.3830	QORG		0.35745	0.005065	0.3733	1.000	0.990	
Nitrogen, Nitrate	0.4498	0.4302	0.4579	0.4590	0.4824	QORG		0.44011	0.008413	0.4558	1.000	0.990	
Sulfate	0.1233	0.1237	0.1314	0.1331	0.1412	QORG		0.12610	3.005E-4	0.1305	1.000	0.990	

730

QORG=Quadratic regression forced through origin

Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 300.0

Inst : IC01
Calnum : 606046871001 Date : 01-FEB-2006 13:28 Inj Vol: 25 uL

Mcs 2/2/06

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	032_2.000	606046871002	L1	01-FEB-2006 13:28	S1888 (500X)
L2	032_3.000	606046871003	L2	01-FEB-2006 13:46	S1888 (100X)
L3	032_4.000	606046871004	L3	01-FEB-2006 14:03	S1888 (25X)
L4	032_5.000	606046871005	L4	01-FEB-2006 14:21	S1888 (10X)
L5	032_6.000	606046871006	L5	01-FEB-2006 14:38	S1888 (5X)

Analyte	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MnR^2	Flags
Fluoride	0.2528	0.2613	0.2883	0.2940	0.3105	QORG	A		0.278548	0.003187	mg/L	0.2814	1.000	0.990	
Chloride	0.1745	0.1698	0.1822	0.1890	0.2055	QORG	A		0.173571	0.001594	mg/L	0.1842	1.000	0.990	
Nitrogen, Nitrite	0.3864	0.3575	0.3722	0.3676	0.3830	QORG	A		0.357447	0.005065	mg/L	0.3733	1.000	0.990	
Bromide	0.0765	0.0774	0.0807	0.0787	0.0812	QORG	A		0.077484	1.818E-4	mg/L	0.0789	1.000	0.990	
Nitrogen, Nitrate	0.4498	0.4302	0.4579	0.4590	0.4824	QORG	A		0.440113	0.008413	mg/L	0.4558	1.000	0.990	
Orthophosphate (as P)	0.1717	0.2172	0.2560	0.2220	0.2112	QORG	A		0.242367	-0.00158	mg/L	0.2156	0.999	0.990	NT
Sulfate	0.1233	0.1237	0.1314	0.1331	0.1412	QORG	A		0.126102	3.005E-4	mg/L	0.1305	1.000	0.990	

MAS 2/1/06

731

NT = non-target

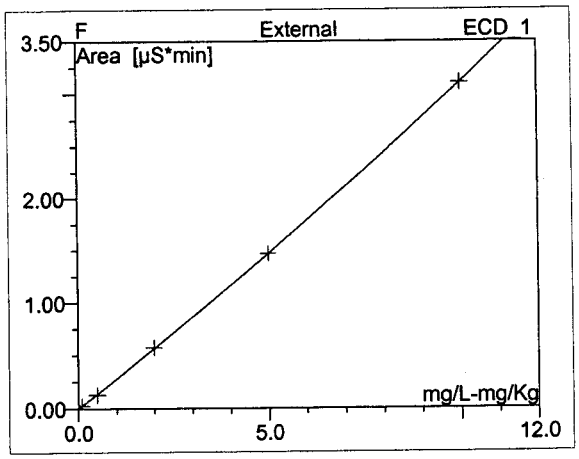
QORG=Quadratic regression forced through origin

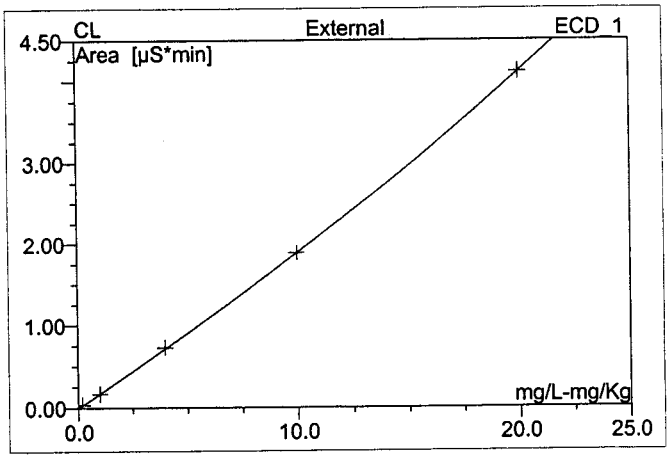
Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

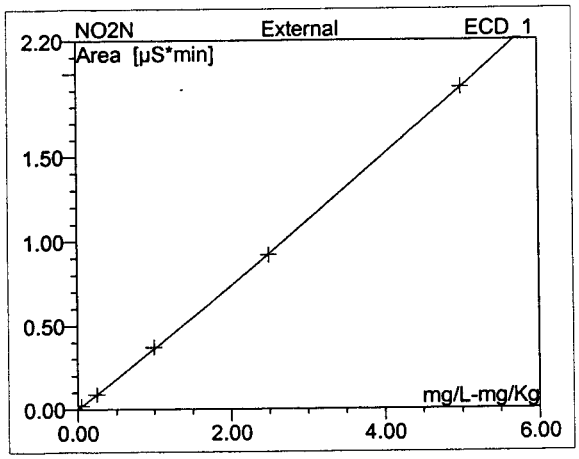
606046871001

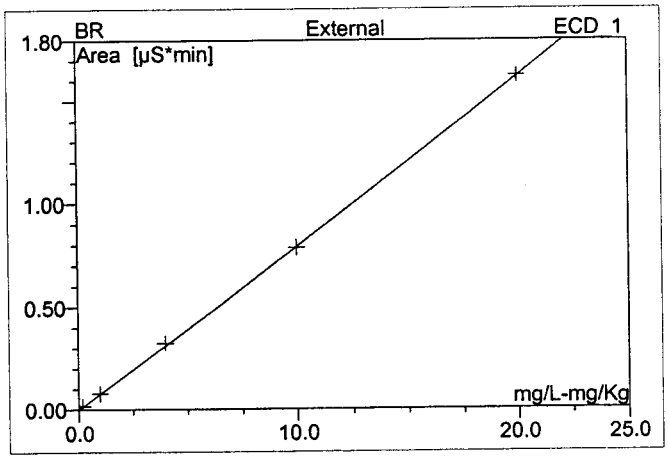
IC01 Calibration Batch Report

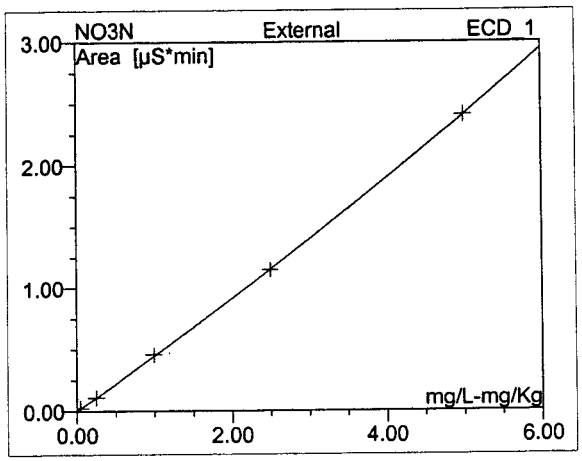
Sequence:	032	Inj. Vol.:	25.0
Program:	IC01-7AN	Operator:	PC_NEWIC
Inj. Date/Time:	02/01/06 14:03	Run Time:	15.00

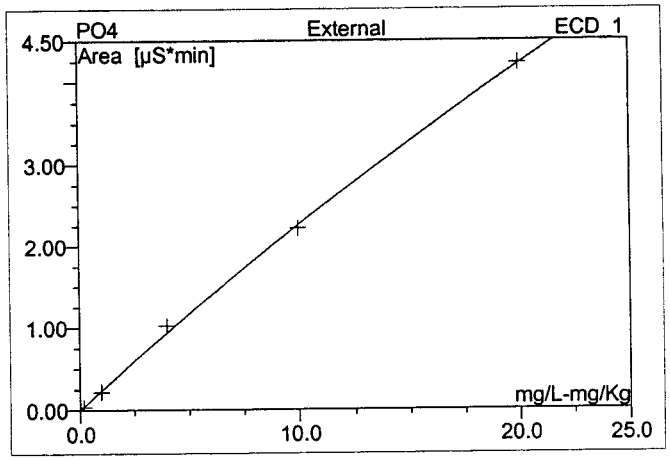




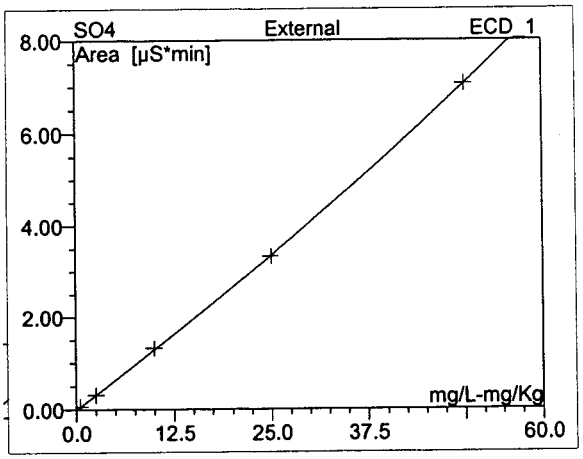








Sequence:	032	*Inj. Vol.:*	25.0
Program:	IC01-7AN	*Operator:*	n.a.
Inj. Date/Time:	02/01/06 14:03	*Run Time:*	15.00



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	3.37	F	Quad	5	0.000000	0.278548	0.003187	99.966068
2	4.89	CL	Quad	5	0.000000	0.173571	0.001594	99.916153
4	5.79	NO2N	Quad	5	0.000000	0.357447	0.005065	99.979455
5	7.33	BR	Quad	5	0.000000	0.077484	0.000182	99.987414
6	8.26	NO3N	Quad	5	0.000000	0.440112	0.008413	99.970779
7	10.28	PO4	Quad	5	0.000000	0.242367	-0.001578	99.885417
8	12.17	SO4	Quad	5	0.000000	0.126102	0.000301	99.958961
AVERAGE:					0.000000	0.242233	0.002452	99.952035

No.	Name	Area µS*min F ECD_1	Area µS*min CL ECD_1	Area µS*min NO2N ECD_1	Area µS*min BR ECD_1	Area µS*min NO3N ECD_1	Area µS*min PO4 ECD_1	Area µS*min SO4 ECD_1
2	ICAL,L1,S188	0.025275	0.034903	0.019321	0.015298	0.022490	0.034330	0.061629
3	ICAL,L2,S188	0.130653	0.169780	0.089380	0.077435	0.107540	0.217220	0.309323
4	ICAL,L3,S188	0.576603	0.728921	0.372151	0.322907	0.457889	1.024032	1.314019
5	ICAL,L4,S188	1.469972	1.890327	0.919106	0.786634	1.147425	2.219833	3.327253
6	ICAL,L5,S188	3.104502	4.110030	1.915021	1.623599	2.411883	4.224545	7.058845

No.	Name	Height µS F ECD_1	Height µS CL ECD_1	Height µS NO2N ECD_1	Height µS BR ECD_1	Height µS NO3N ECD_1	Height µS PO4 ECD_1	Height µS SO4 ECD_1
2	ICAL,L1,S188	0.214888	0.258158	0.107142	0.073826	0.090044	0.092472	0.173918
3	ICAL,L2,S188	1.091262	1.255538	0.520346	0.357736	0.437902	0.520594	0.860712
4	ICAL,L3,S188	4.846146	5.414854	2.167724	1.511584	1.866278	2.566166	3.696382
5	ICAL,L4,S188	12.797028	14.219142	5.393734	3.770806	4.728312	6.027548	9.511224
6	ICAL,L5,S188	27.169356	31.375536	11.293560	7.962244	10.100652	12.291378	20.783882

No.	Name	Amount mg/L-mg/Kg F ECD_1	Amount mg/L-mg/Kg CL ECD_1	Amount mg/L-mg/Kg NO2N ECD_1	Amount mg/L-mg/Kg BR ECD_1	Amount mg/L-mg/Kg NO3N ECD_1	Amount mg/L-mg/Kg PO4 ECD_1	Amount mg/L-mg/Kg SO4 ECD_1
2	ICAL,L1,S188	0.090645	0.200718	0.054011	0.197347	0.051052	0.141776	0.488153
3	ICAL,L2,S188	0.466559	0.969523	0.249171	0.997037	0.243215	0.901538	2.438779
4	ICAL,L3,S188	2.023200	4.048958	1.026211	4.127423	1.020484	4.348224	10.173592
5	ICAL,L4,S188	4.992160	9.976525	2.483881	9.921246	2.488719	9.781943	24.906875
6	ICAL,L5,S188	10.001057	20.003598	5.002836	20.014099	5.001893	20.046763	50.015285

Method File: IC01-7AN_CAL
Operator: ic_analyst

Printed: 3/14/2006 1:26:39 PM

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\069.SEQ

Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/11/2006 2:47:40 PM by ic_analyst

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Inhibit Integration	On	ECD_1
2	3.000	Inhibit Integration	Off	ECD_1
3	3.010	Minimum Area	0.001 "[Signal]*min"	ECD_1
4	3.011	Peak Slice	0.05 s	ECD_1

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\069.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/11/2006 2:47:40 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Comment
1	F	3.437 min	5.000 RG	External	Area	Quad	Auto		
2	*CL*	*5.010 min*	*5.000 RG*	*External*	*Area*	*Quad*	*Auto*		
3	NO2N	5.963 min	5.000 RG	External	Area	Quad	Auto		
4	BR	7.637 min	5.000 RG	External	Area	Quad	Auto		
5	NO3N	8.653 min	10.000 RG	External	Area	Quad	Auto		
6	PO4	10.283 min	10.000 RG	External	Area	Quad	Auto		
7	SO4	12.170 min	10.000 RG	External	Area	Quad	Auto		

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Method File: IC01-7AN_CAL
Operator: ic_analyst

Printed: 3/14/2006 1:26:39 PM

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\069.SEQ

Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/11/2006 2:47:40 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Amount ICAL,L1,S1888,500	Amount ICAL,L2,S1888,100	Amount ICAL,L3,S1888,25	Amount ICAL,L4,S1888,10	Amount ICAL,L5,S1888,5
1	F	3.437 min	0.100000	0.500000	2.000000	5.000000	10.000000
2	*CL*	*5.010 min*	*0.200000*	*1.000000*	*4.000000*	*10.000000*	*20.000000*
3	NO2N	5.963 min	0.050000	0.250000	1.000000	2.500000	5.000000
4	BR	7.637 min	0.200000	1.000000	4.000000	10.000000	20.000000
5	NO3N	8.653 min	0.050000	0.250000	1.000000	2.500000	5.000000
6	PO4	10.283 min	0.200000	1.000000	4.000000	10.000000	20.000000
7	SO4	12.170 min	0.500000	2.500000	10.000000	25.000000	50.000000

Method File: IC01-7AN_CAL
Operator: ic_analyst

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\069.SEQ

Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/11/2006 2:47:40 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Resp.Fact.	Comment	Amount ICAL,L1,S1888,500	Amount ICAL,L2,S1888,100	Amount ICAL,L3,S1888,25
1	F	3.437 min	1.000000		0.100000	0.500000	2.000000
2	*CL*	*5.010 min*	*1.000000*		*0.200000*	*1.000000*	*4.000000*
3	NO2N	5.963 min	1.000000		0.050000	0.250000	1.000000
4	BR	7.637 min	1.000000		0.200000	1.000000	4.000000
5	NO3N	8.653 min	1.000000		0.050000	0.250000	1.000000
6	PO4	10.283 min	1.000000		0.200000	1.000000	4.000000
7	SO4	12.170 min	1.000000		0.500000	2.500000	10.000000

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\069.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/11/2006 2:47:40 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Amount ICAL,L4,S1888,10	Amount ICAL,L5,S1888,5
1	F	3.437 min	5.000000	10.000000
2	*CL*	*5.010 min*	*10.000000*	*20.000000*
3	NO2N	5.963 min	2.500000	5.000000
4	BR	7.637 min	10.000000	20.000000
5	NO3N	8.653 min	2.500000	5.000000
6	PO4	10.283 min	10.000000	20.000000
7	SO4	12.170 min	25.000000	50.000000

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\069.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/11/2006 2:47:40 PM by ic_analyst

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time
1	☒	ICAL,L1,S1888,500	2	70	25.0	1.0000	1.0000	1.0000	2/1/2006 1:28:35 PM
2	☒	ICAL,L2,S1888,100	3	35	25.0	1.0000	1.0000	1.0000	2/1/2006 1:46:06 PM
3	☒	ICAL,L3,S1888,25	4	35	25.0	1.0000	1.0000	1.0000	2/1/2006 2:03:37 PM
4	☒	ICAL,L4,S1888,10	5	36	25.0	1.0000	1.0000	1.0000	2/1/2006 2:21:08 PM
5	☒	ICAL,L5,S1888,5	6	37	25.0	1.0000	1.0000	1.0000	2/1/2006 2:38:38 PM

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\069.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/11/2006 2:47:40 PM by ic_analyst

Calibration:

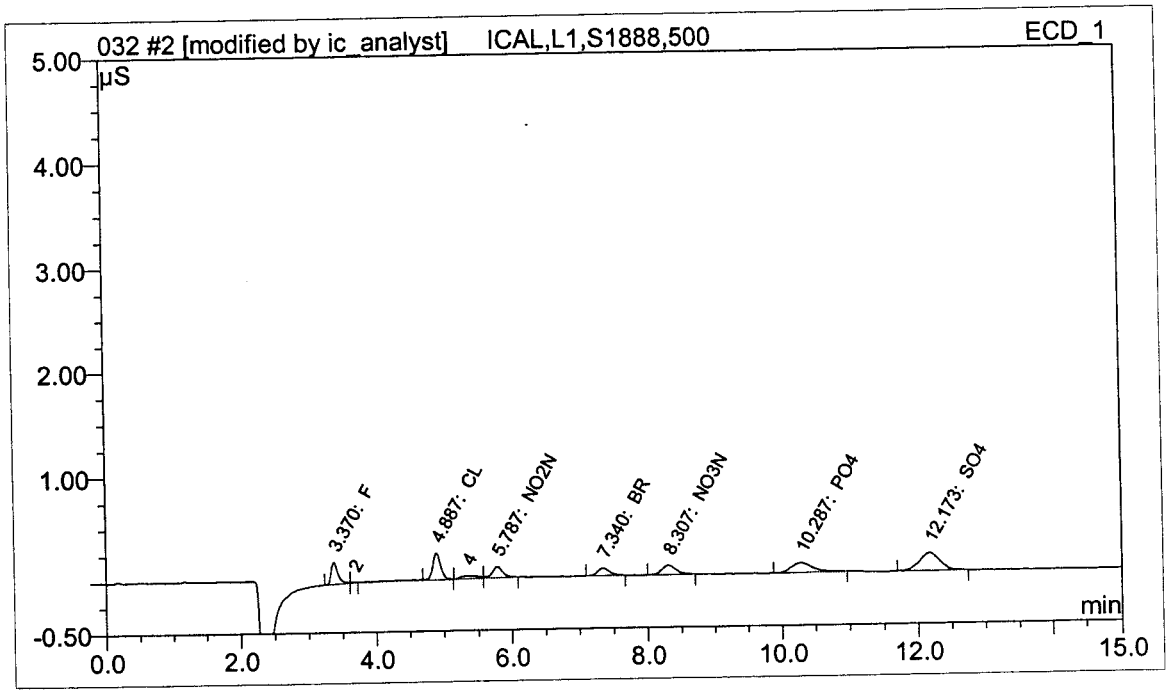
Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Calib. Comment
1	☒	ICAL,L1,S1888,500	Ok
2	☒	ICAL,L2,S1888,100	Ok
3	☒	ICAL,L3,S1888,25	Ok
4	☒	ICAL,L4,S1888,10	Ok
5	☒	ICAL,L5,S1888,5	Ok

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L1,S1888,500	**Sample No.:**	2
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:28 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	0.025275	0.0906	0.0906	
3	CL	4.887	0.034903	0.2007	0.2007	
5	NO2N	5.787	0.019321	0.0540	0.0540	
6	BR	7.340	0.015298	0.1973	0.1973	
7	NO3N	8.307	0.022490	0.0511	0.0511	
8	PO4	10.287	0.034330	0.1418	0.1418	
9	SO4	12.173	0.061629	0.4882	0.4882	



ANALYZED BY: _____

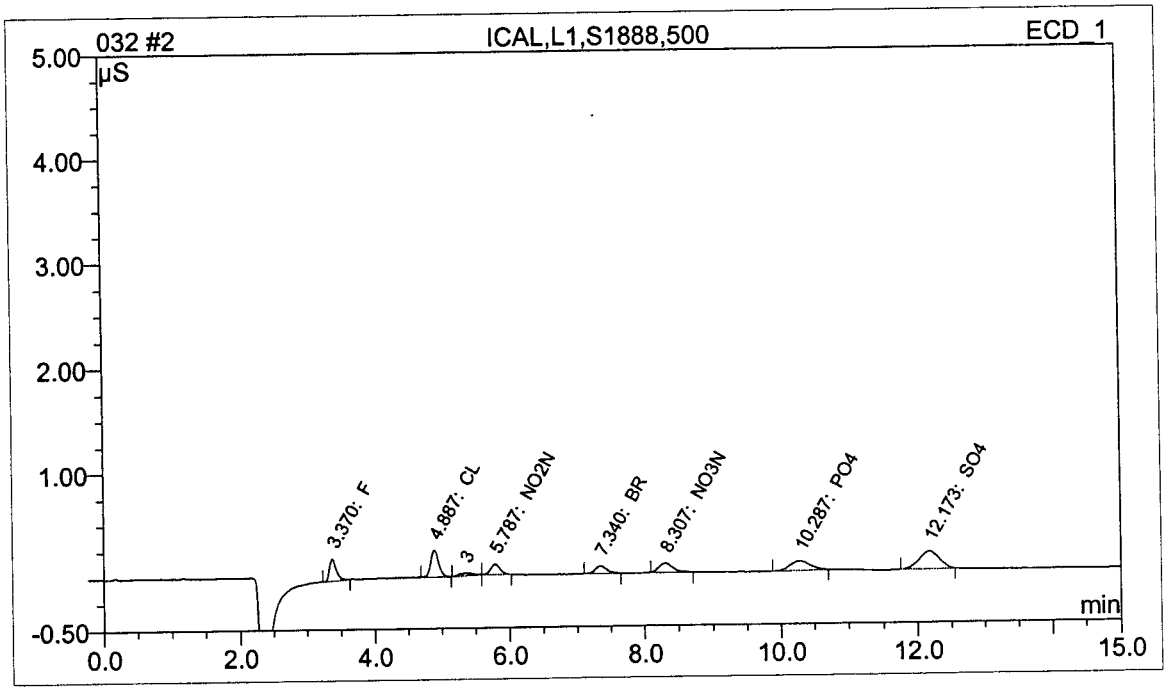
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L1,S1888,500	**Sample No.:**	2
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:28 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	0.024236	0.0869	0.0869	
2	CL	4.887	0.034903	0.2007	0.2007	
4	NO2N	5.787	0.015698	0.0439	0.0439	
5	BR	7.340	0.015043	0.1941	0.1941	
6	NO3N	8.307	0.020103	0.0456	0.0456	
7	PO4	10.287	0.031075	0.1283	0.1283	
8	SO4	12.173	0.056768	0.4497	0.4497	



ANALYZED BY: _____

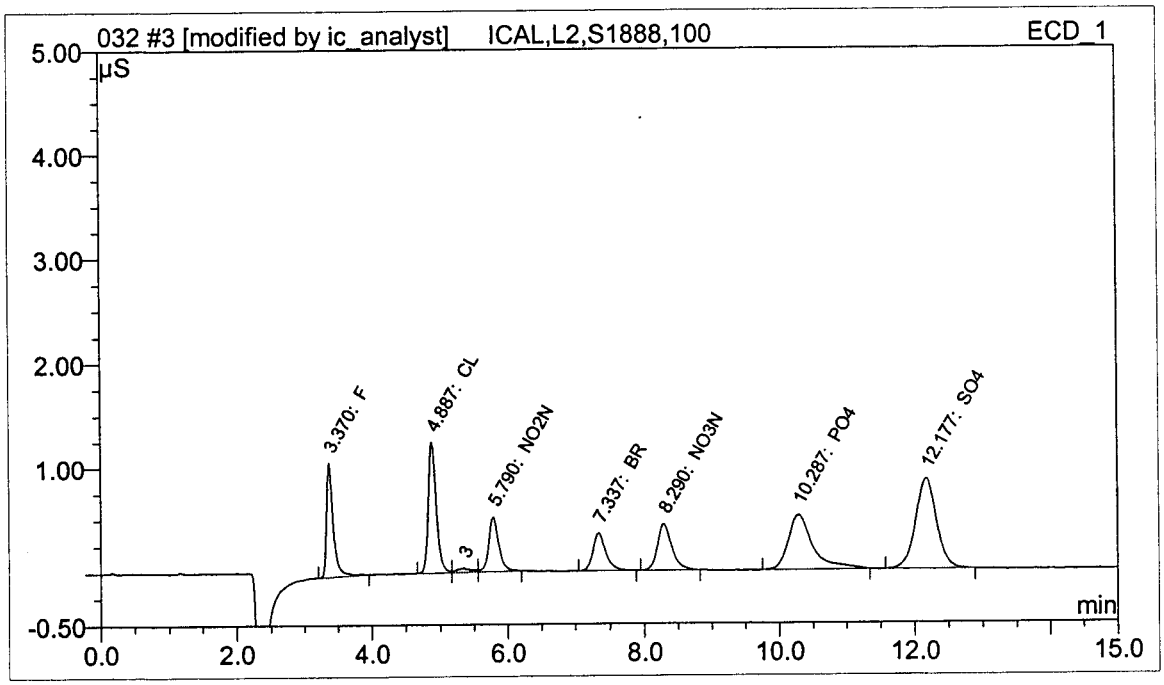
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L2,S1888,100	**Sample No.:**	3
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:46 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	0.130653	0.4666	0.4666	
2	CL	4.887	0.169780	0.9695	0.9695	
4	NO2N	5.790	0.089380	0.2492	0.2492	
5	BR	7.337	0.077435	0.9970	0.9970	
6	NO3N	8.290	0.107540	0.2432	0.2432	
7	PO4	10.287	0.217220	0.9015	0.9015	
8	SO4	12.177	0.309323	2.4388	2.4388	



ANALYZED BY: _____

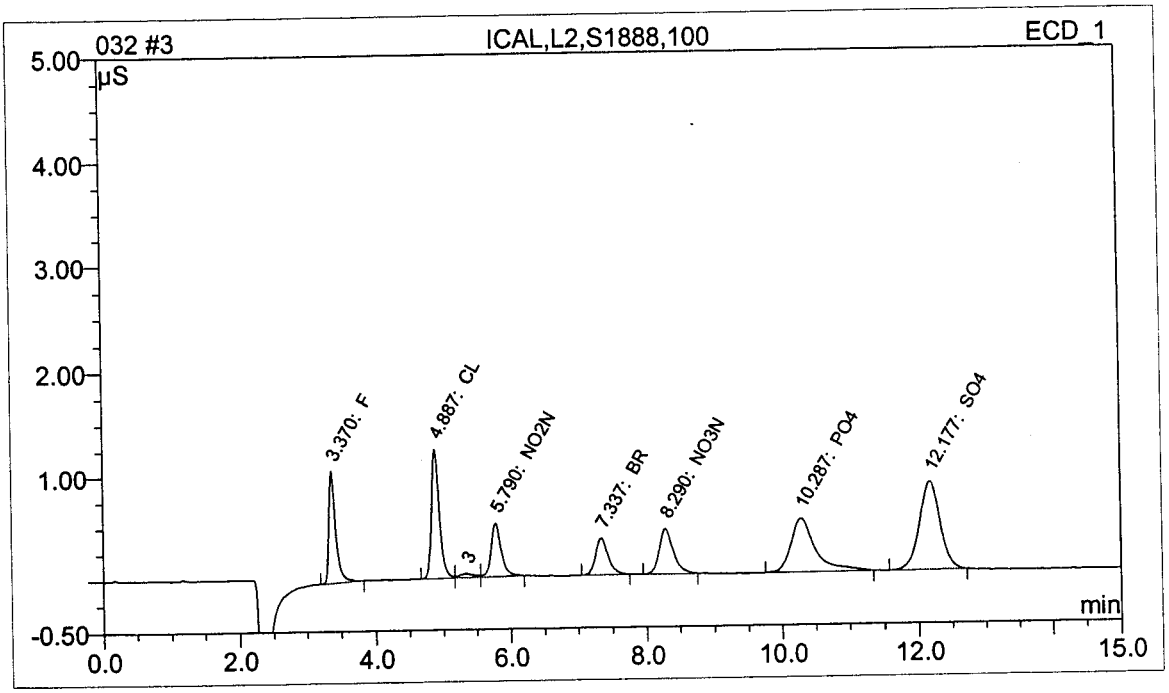
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L2,S1888,100	**Sample No.:**	3
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:46 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	0.127500	0.4556	0.4556	
2	CL	4.887	0.169780	0.9695	0.9695	
4	NO2N	5.790	0.089380	0.2492	0.2492	
5	BR	7.337	0.075668	0.9749	0.9749	
6	NO3N	8.290	0.106521	0.2410	0.2410	
7	PO4	10.287	0.217220	0.9015	0.9015	
8	SO4	12.177	0.303977	2.3979	2.3979	



ANALYZED BY: _____

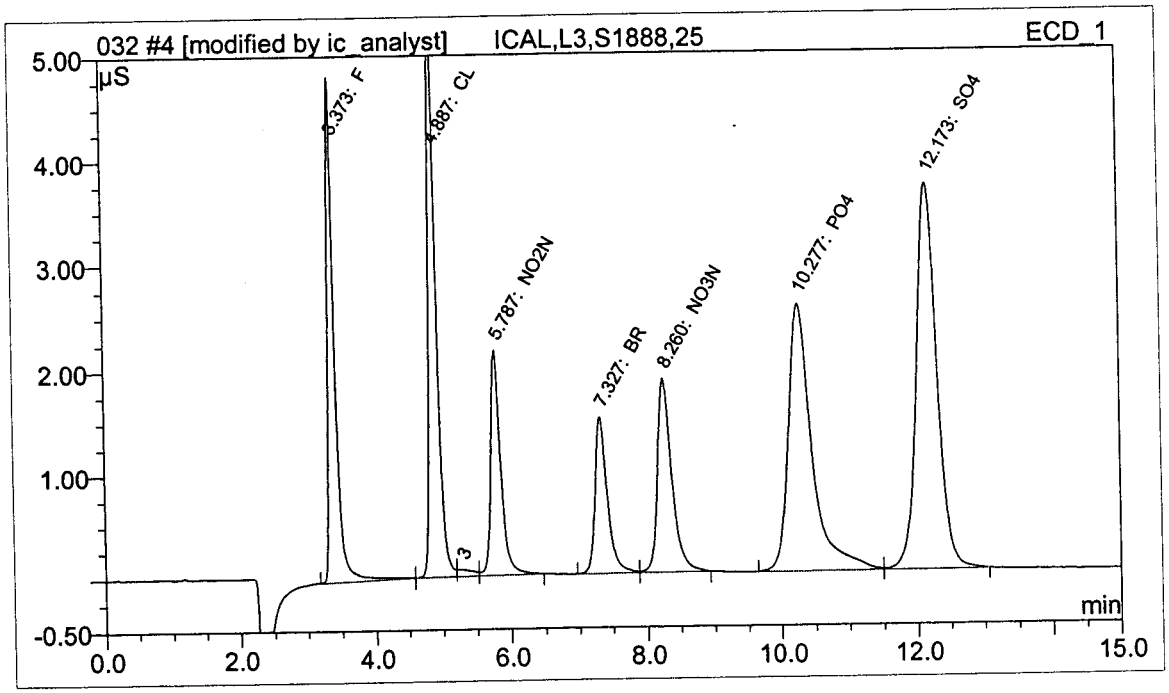
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L3,S1888,25	**Sample No.:**	4
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:03 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.373	0.576603	2.0232	2.0232	
2	CL	4.887	0.728921	4.0490	4.0490	
4	NO2N	5.787	0.372151	1.0262	1.0262	
5	BR	7.327	0.322907	4.1274	4.1274	
6	NO3N	8.260	0.457889	1.0205	1.0205	
7	PO4	10.277	1.024032	4.3482	4.3482	
8	SO4	12.173	1.314019	10.1736	10.1736	



ANALYZED BY: _____

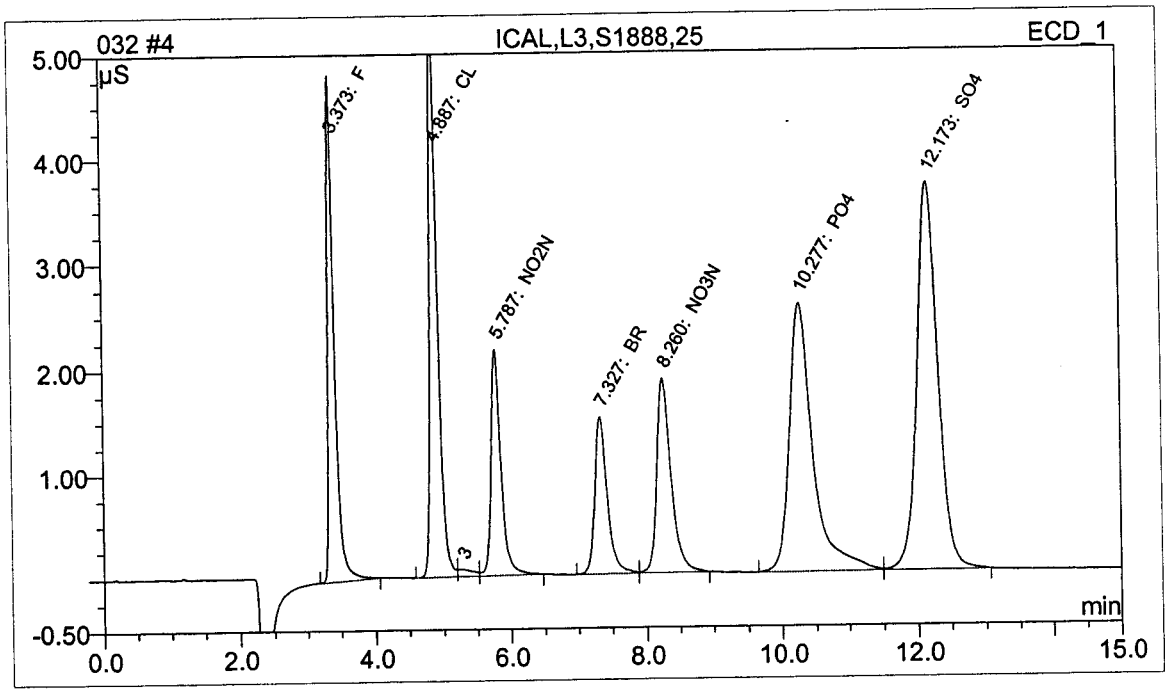
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L3,S1888,25	**Sample No.:**	4
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:03 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.373	0.560194	1.9831	1.9831	
2	CL	4.887	0.728921	4.0490	4.0490	
4	NO2N	5.787	0.372151	1.0262	1.0262	
5	BR	7.327	0.322907	4.1274	4.1274	
6	NO3N	8.260	0.457889	1.0205	1.0205	
7	PO4	10.277	1.024032	4.3482	4.3482	
8	SO4	12.173	1.314019	10.1736	10.1736	



ANALYZED BY: _____

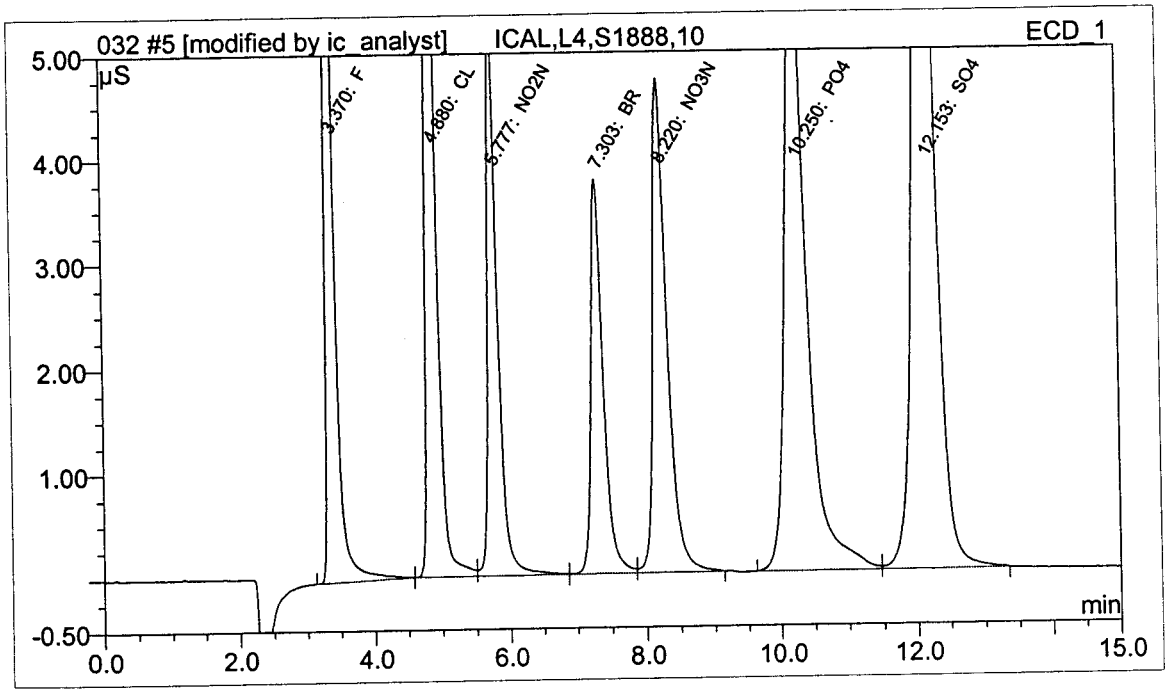
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L4,S1888,10	**Sample No.:**	5
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:21 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	1.469972	4.9922	4.9922	
2	CL	4.880	1.890327	9.9765	9.9765	
3	NO2N	5.777	0.919106	2.4839	2.4839	
4	BR	7.303	0.786634	9.9212	9.9212	
5	NO3N	8.220	1.147425	2.4887	2.4887	
6	PO4	10.250	2.219833	9.7819	9.7819	
7	SO4	12.153	3.327253	24.9069	24.9069	



ANALYZED BY: _____

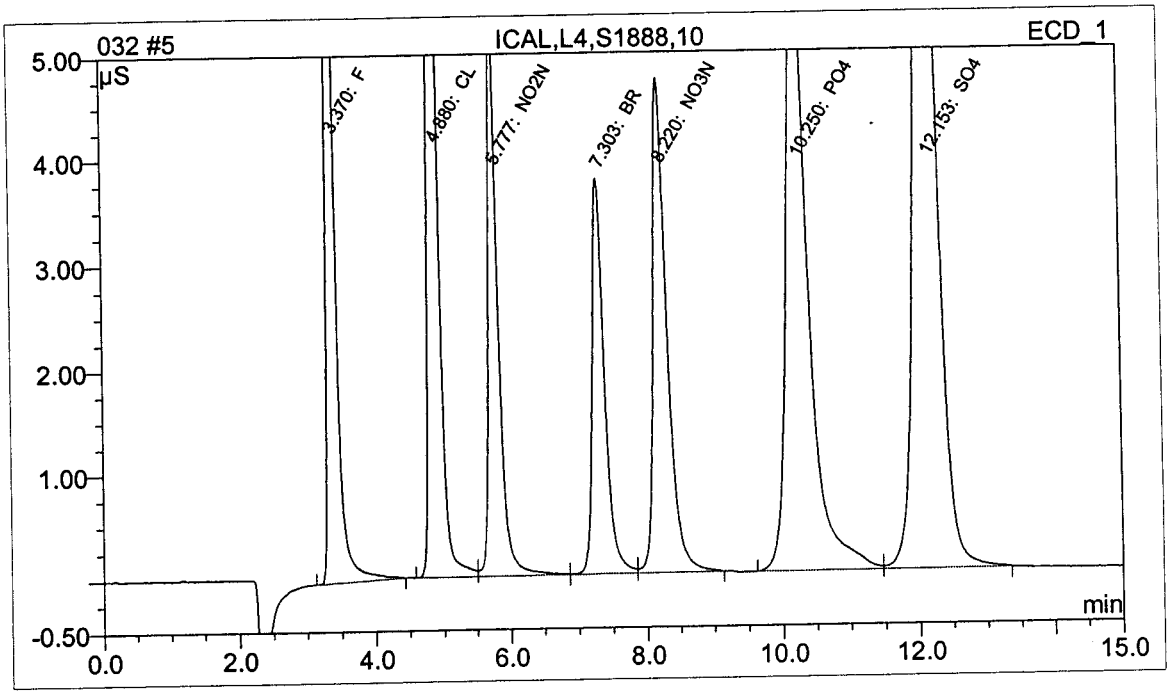
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L4,S1888,10	**Sample No.:**	5
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:21 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	1.463674	4.9860	4.9860	
2	CL	4.880	1.890327	9.9765	9.9765	
3	NO2N	5.777	0.919106	2.4839	2.4839	
4	BR	7.303	0.786634	9.9212	9.9212	
5	NO3N	8.220	1.147425	2.4887	2.4887	
6	PO4	10.250	2.219833	9.7819	9.7819	
7	SO4	12.153	3.327253	24.9069	24.9069	



ANALYZED BY: _____

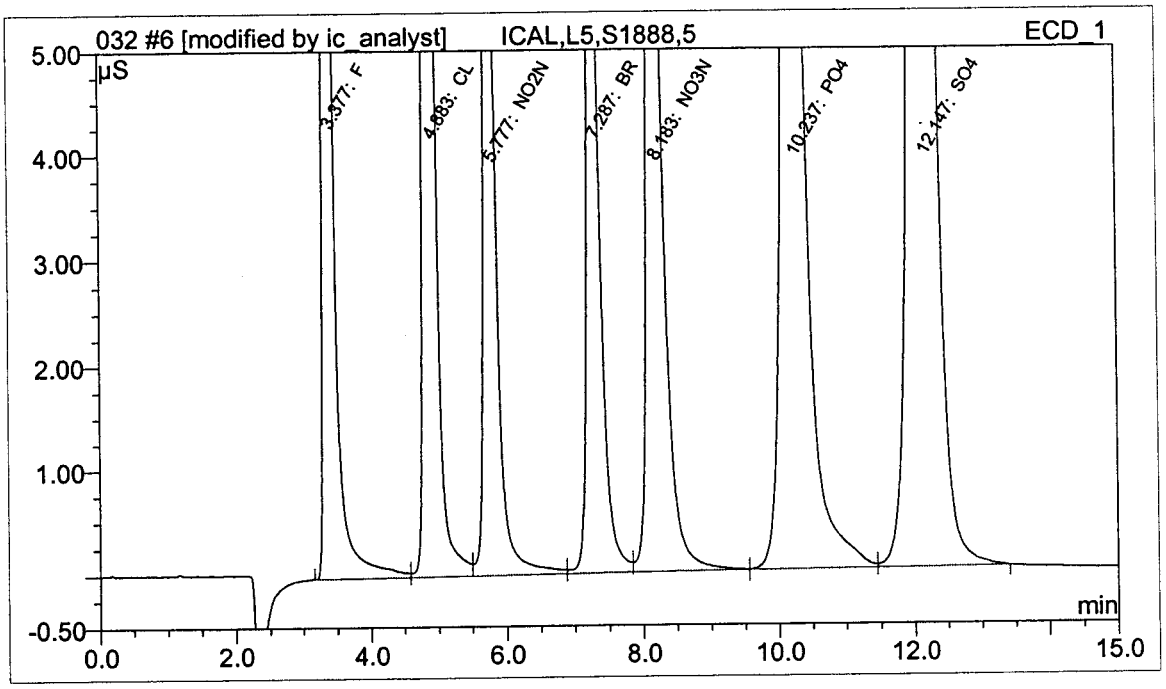
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L5,S1888,5	**Sample No.:**	6
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:38 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.377	3.104502	10.0011	10.0011	
2	CL	4.883	4.110030	20.0036	20.0036	
3	NO2N	5.777	1.915021	5.0028	5.0028	
4	BR	7.287	1.623599	20.0141	20.0141	
5	NO3N	8.183	2.411883	5.0019	5.0019	
6	PO4	10.237	4.224545	20.0468	20.0468	
7	SO4	12.147	7.058845	50.0153	50.0153	



ANALYZED BY: _____

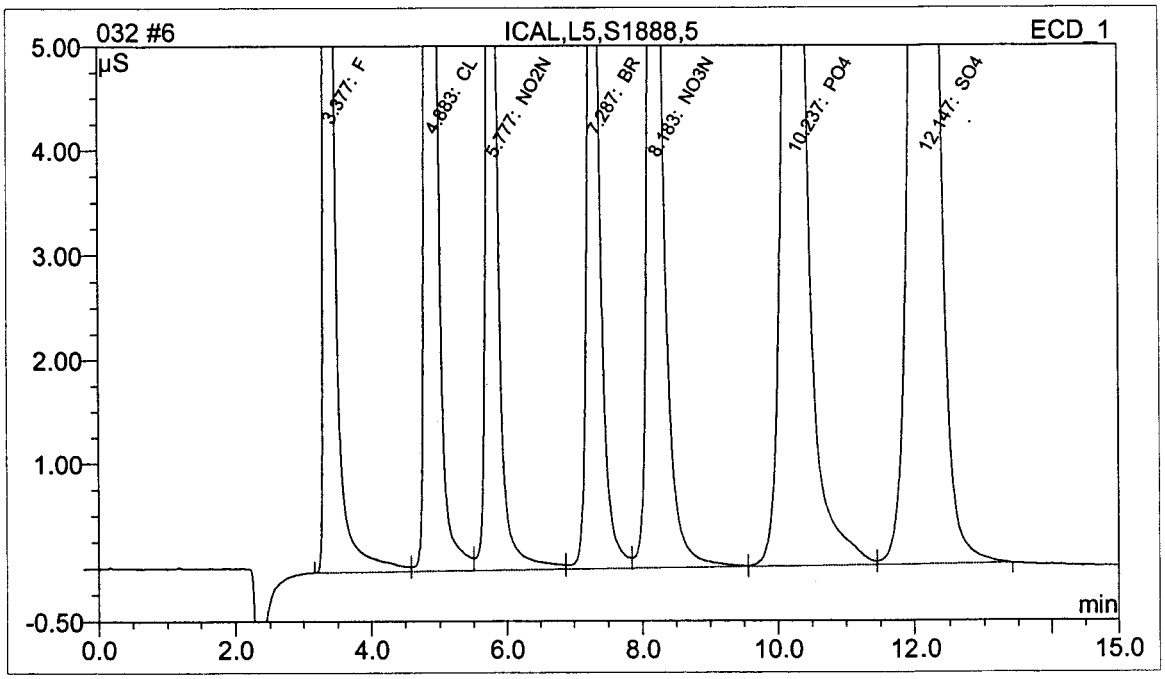
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L5,S1888,5	**Sample No.:**	6
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:38 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.377	3.105467	10.0011	10.0011	
2	CL	4.883	4.111657	20.0037	20.0037	
3	NO2N	5.777	1.918949	5.0029	5.0029	
4	BR	7.287	1.627431	20.0145	20.0145	
5	NO3N	8.183	2.420882	5.0021	5.0021	
6	PO4	10.237	4.233171	20.0470	20.0470	
7	SO4	12.147	7.061876	50.0155	50.0155	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185457 IC Water
EPA 300.0

Inst : IC01
Calnum : 606046871001 Cal Date: 01-FEB-2006

ICV 606046871007 (032_7.000 01-FEB-2006) stds: S1085 (5X)

Analyte	Spiked	Quant	Units	%D	Max	Flags
Fluoride	1.000	0.9085	mg/L	-9	10	
Chloride	2.000	1.856	mg/L	-7	10	
Nitrogen, Nitrite	0.5000	0.4846	mg/L	-3	10	
Nitrogen, Nitrate	0.5000	0.4506	mg/L	-10	10	
Sulfate	5.000	4.911	mg/L	-2	10	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 300.0

Inst : IC01
Seqnum : 606046871007 File : 032_7.000
Cal : 606046871001 Caldate: 01-FEB-2006

IDF : 1.0
Time : 01-FEB-2006 14:56

Standards: S1085 (5X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Fluoride	0.2814	0.2557	1.000	0.9085	mg/L	-9	10	
Chloride	0.1842	0.1638	2.000	1.856	mg/L	-7	10	
Nitrogen, Nitrite	0.3733	0.3488	0.5000	0.4846	mg/L	-3	10	
Bromide	0.0789	0.0774	2.000	1.990	mg/L	-1	10	
Nitrogen, Nitrate	0.4558	0.4001	0.5000	0.4506	mg/L	-10	10	
Orthophosphate (as P)	0.2156	0.2973	2.000	2.494	mg/L	**25**	10	v+ *** NA
Sulfate	0.1305	0.1253	5.000	4.911	mg/L	-2	10	

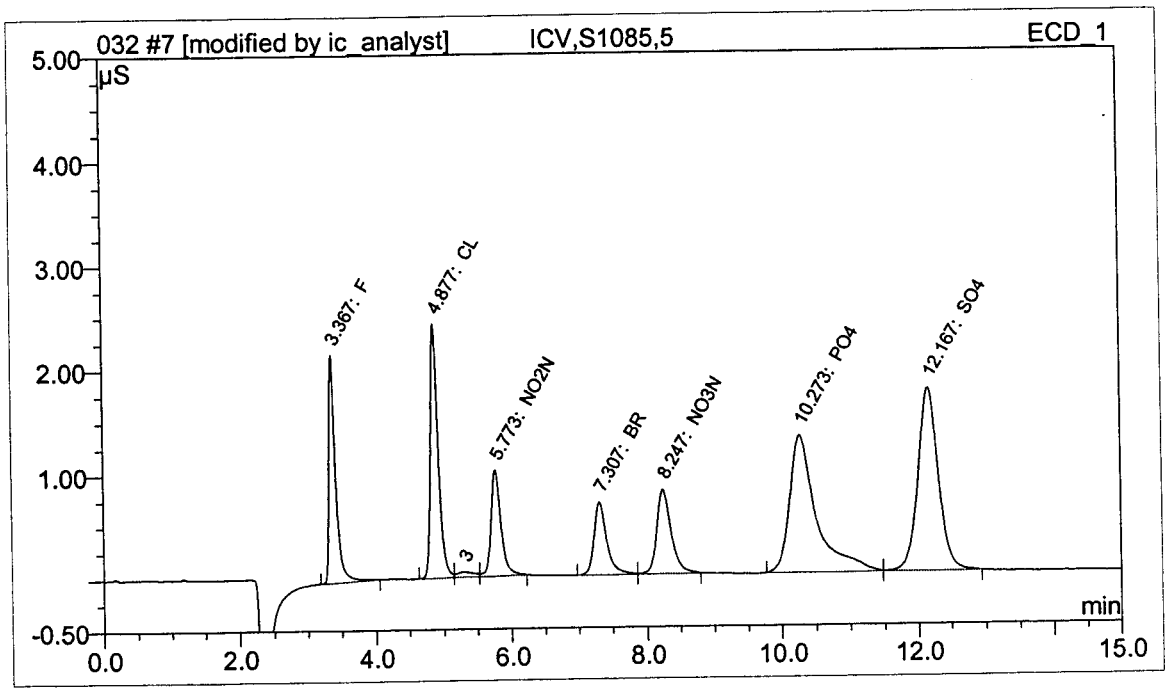
MAS 2/1/06

+=high bias v=ICV

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:56 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.367	0.255692	0.9085	0.9085	
2	CL	4.877	0.327591	1.8557	1.8557	
4	NO2N	5.773	0.174392	0.4846	0.4846	
5	BR	7.307	0.154881	1.9896	1.9896	
6	NO3N	8.247	0.200041	0.4506	0.4506	
7	PO4	10.273	0.594629	2.4939	2.4939	
8	SO4	12.167	0.626486	4.9106	4.9106	



ANALYZED BY: _____

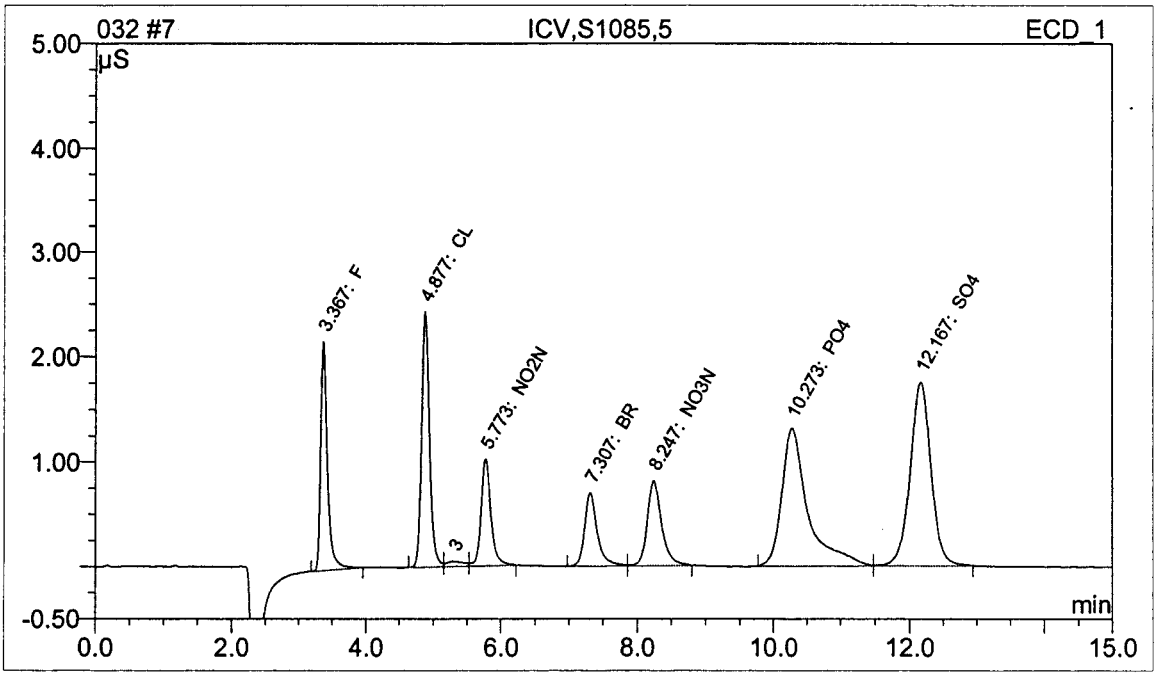
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:56 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.367	0.253367	0.9003	0.9003	
2	CL	4.877	0.327591	1.8557	1.8557	
4	NO2N	5.773	0.174392	0.4846	0.4846	
5	BR	7.307	0.154881	1.9896	1.9896	
6	NO3N	8.247	0.200041	0.4506	0.4506	
7	PO4	10.273	0.594629	2.4939	2.4939	
8	SO4	12.167	0.626486	4.9106	4.9106	



ANALYZED BY: REVIEWED BY:

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185457 IC Water: EPA 300.0

Inst : IC03
Calnum : 626087283001
Units : mg/L

Date : 01-MAR-2006 15:02
X Axis : A

Reviewer: MCH
Inj Vol : 25 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	060_2.000	626087283002	L1	01-MAR-2006 15:02	S1888 (500X)
L2	060_3.000	626087283003	L2	01-MAR-2006 15:20	S1888 (100X)
L3	060_4.000	626087283004	L3	01-MAR-2006 15:39	S1888 (25X)
L4	060_5.000	626087283005	L4	01-MAR-2006 15:57	S1888 (10X)
L5	060_6.000	626087283006	L5	01-MAR-2006 16:15	S1888 (5X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Fluoride	0.1716	0.1970	0.2011	0.2058	0.2193	QORG		0.19367	0.002557	0.1990	1.000	0.990	
Chloride	0.2004	0.1474	0.1573	0.1617	0.1760	QORG		0.14901	0.001346	0.1686	1.000	0.990	
Nitrogen, Nitrite	0.2691	0.2776	0.3037	0.3039	0.3170	QORG		0.29330	0.004711	0.2943	1.000	0.990	
Nitrogen, Nitrate	0.3560	0.3834	0.3978	0.3870	0.4128	QORG		0.37136	0.008191	0.3874	1.000	0.990	
Sulfate	0.1066	0.1006	0.1099	0.1118	0.1203	QORG		0.10436	3.187E-4	0.1099	1.000	0.990	

756

QORG=Quadratic regression forced through origin

Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

626087283001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 300.0

Inst : IC03
Calnum : 626087283001

Date : 01-MAR-2006 15:02

Inj Vol: 25 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	060_2.000	626087283002	L1	01-MAR-2006 15:02	S1888 (500X)
L2	060_3.000	626087283003	L2	01-MAR-2006 15:20	S1888 (100X)
L3	060_4.000	626087283004	L3	01-MAR-2006 15:39	S1888 (25X)
L4	060_5.000	626087283005	L4	01-MAR-2006 15:57	S1888 (10X)
L5	060_6.000	626087283006	L5	01-MAR-2006 16:15	S1888 (5X)

Mar 3/2/06

Analyte	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MnR^2	Flg
Fluoride	0.1716	0.1970	0.2011	0.2058	0.2193	QORG	A		0.19367	0.002557	mg/L	0.1990	1.000	0.990	
Chloride	0.2004	0.1474	0.1573	0.1617	0.1760	QORG	A		0.14901	0.001346	mg/L	0.1686	1.000	0.990	
Nitrogen, Nitrite	0.2691	0.2776	0.3037	0.3039	0.3170	QORG	A		0.29330	0.004711	mg/L	0.2943	1.000	0.990	
Bromide	0.0471	0.0627	0.0663	0.0635	0.0673	QORG	A		0.06168	2.750E-4	mg/L	0.0614	1.000	0.990	
Nitrogen, Nitrate	0.3560	0.3834	0.3978	0.3870	0.4128	QORG	A		0.37136	0.008191	mg/L	0.3874	1.000	0.990	
Orthophosphate (as P)	0.0986	0.1086	0.1241	0.1248	0.1349	QORG	A		0.11651	9.164E-4	mg/L	0.1182	1.000	0.990	N A
Sulfate	0.1066	0.1006	0.1099	0.1118	0.1203	QORG	A		0.10436	3.187E-4	mg/L	0.1099	1.000	0.990	

MRS 3/2/06

757

QORG=Quadratic regression forced through origin

Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

626087283001

Sequence: 060
Operator: ic_analyst

Printed: 3/2/2006 11:25:27 AM

Title: Anions
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006
Timebase: IC3_DX120
#Samples: 8

Created: 8/1/2003 11:03:14 AM by ic_analyst
Last Update: 3/1/2006 4:23:55 PM by ic_analyst

No.	*Batch	Name	Comment	Dil. Factor	Program	Status	Inj. Date/Time
1	CAL-060	IB		1.0000	IC03-7AN	Finished	3/1/2006 2:43:54 PM
2	CAL-060	ICAL, L1,S1888,500		1.0000	IC03-7AN	Finished	3/1/2006 3:02:19 PM
3	CAL-060	ICAL, L2,S1888,100		1.0000	IC03-7AN	Finished	3/1/2006 3:20:44 PM
4	CAL-060	ICAL, L3,S1888,25		1.0000	IC03-7AN	Finished	3/1/2006 3:39:08 PM
5	CAL-060	ICAL, L4,S1888,10		1.0000	IC03-7AN	Finished	3/1/2006 3:57:33 PM
6	CAL-060	ICAL, L5,S1888,5		1.0000	IC03-7AN	Finished	3/1/2006 4:15:58 PM
7	CAL-060	ICV,S1085,5		1.0000	IC03-7AN	Finished	3/1/2006 4:34:23 PM
8	CAL-060	ICB		1.0000	IC03-7AN	Finished	3/1/2006 4:52:47 PM

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Sequence: 060
Operator: ic_analyst

Printed: 3/2/2006 11:25:27 AM

Title: Anions
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006
Timebase: IC3_DX120
#Samples: 8

Created: 8/1/2003 11:03:14 AM by ic_analyst
Last Update: 3/1/2006 4:23:55 PM by ic_analyst

No.	*Batch	Name	Comment	Method	Type	Inj. Vol.	*operator	*PDF
1	CAL-060	IB		IC03-7AN_CAL	Unknown	25.0	MRS	1
2	CAL-060	ICAL, L1,S1888,500		IC03-7AN_CAL	Standard	25.0	MRS	1
3	CAL-060	ICAL, L2,S1888,100		IC03-7AN_CAL	Standard	25.0	MRS	1
4	CAL-060	ICAL, L3,S1888,25		IC03-7AN_CAL	Standard	25.0	MRS	1
5	CAL-060	ICAL, L4,S1888,10		IC03-7AN_CAL	Standard	25.0	MRS	1
6	CAL-060	ICAL, L5,S1888,5		IC03-7AN_CAL	Standard	25.0	MRS	1
7	CAL-060	ICV,S1085,5		IC03-7AN_CAL	Unknown	25.0	MRS	1
8	CAL-060	ICB		IC03-7AN_CAL	Unknown	25.0	MRS	1

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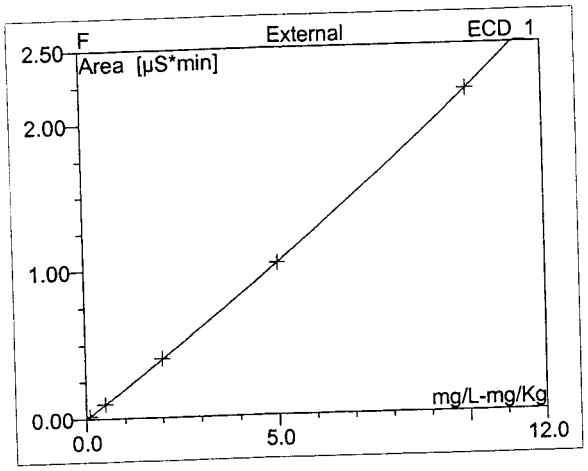
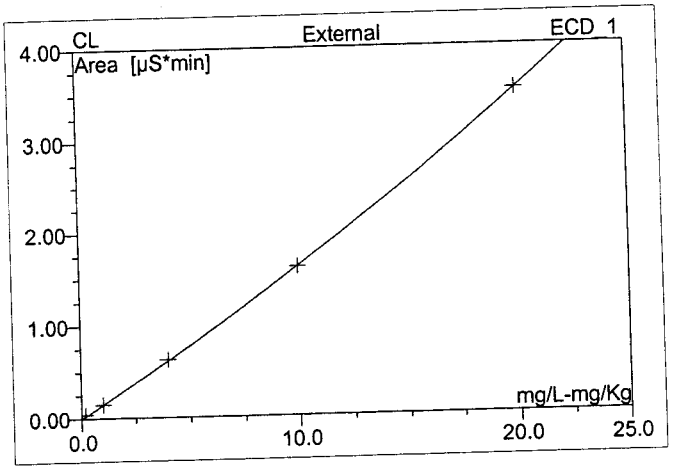
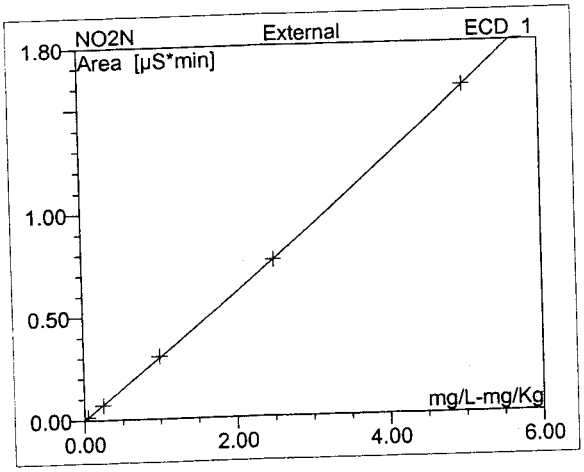
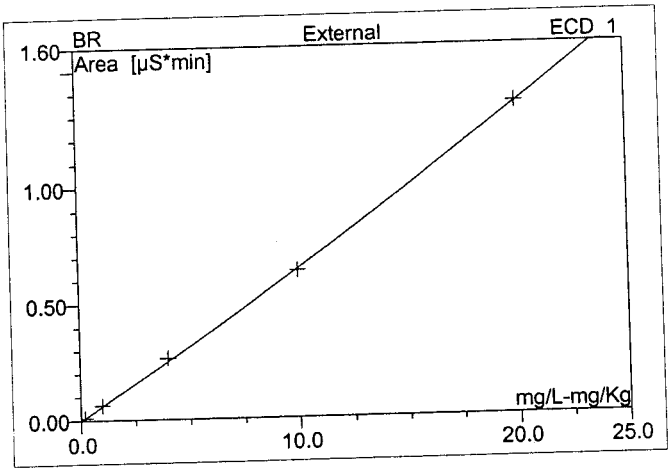
IC03 Calibration Batch Report

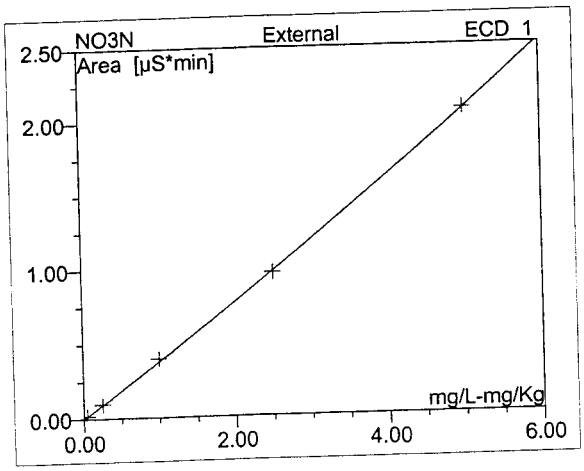
Sequence:	060	Inj. Vol.:	25.0
Program:	IC03-7AN	Operator:	PC_NEWIC
Inj. Date/Time:	03/01/06 15:39	Run Time:	16.00

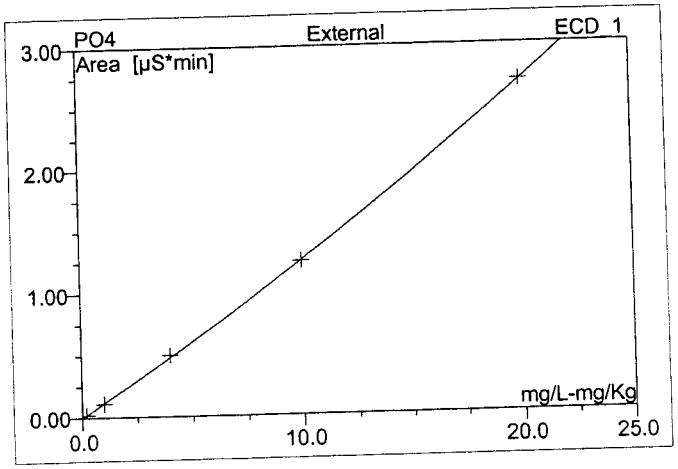




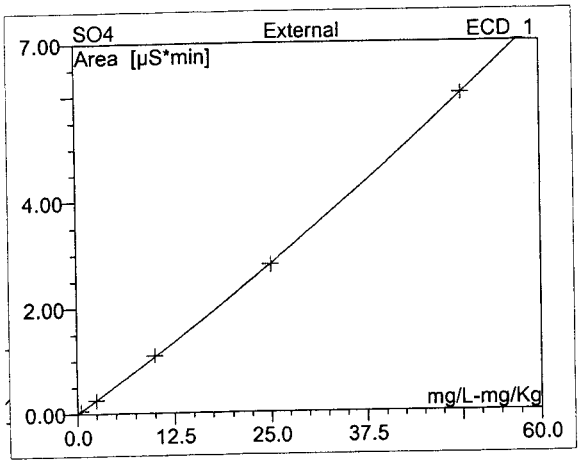








Sequence:	060	*Inj. Vol.:*	25.0
Program:	IC03-7AN	*Operator:*	n.a.
Inj. Date/Time:	03/01/06 15:39	*Run Time:*	16.00



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	2.870	F	Quad	5	0.000000	0.193669	0.002557	99.951556
2	4.217	CL	Quad	5	0.000000	0.149009	0.001346	99.909274
3	5.010	NO2N	Quad	5	0.000000	0.293301	0.004711	99.980499
4	6.363	BR	Quad	5	0.000000	0.061677	0.000275	99.961186
5	7.183	NO3N	Quad	5	0.000000	0.371363	0.008191	99.950755
6	9.350	PO4	Quad	5	0.000000	0.116513	0.000916	99.934448
7	11.167	SO4	Quad	5	0.000000	0.104363	0.000319	99.936780
AVERAGE:					0.000000	0.184271	0.002616	99.946357

No.	Name	Area µS*min F ECD_1	Area µS*min CL ECD_1	Area µS*min NO2N ECD_1	Area µS*min BR ECD_1	Area µS*min NO3N ECD_1	Area µS*min PO4 ECD_1	Area µS*min SO4 ECD_1
2	ICAL, L1,S18	0.017161	0.040074	0.013455	0.009416	0.017801	0.019729	0.053320
3	ICAL, L2,S18	0.098503	0.147367	0.069403	0.062700	0.095842	0.108648	0.251558
4	ICAL, L3,S18	0.402286	0.629116	0.303748	0.265105	0.397785	0.496547	1.098657
5	ICAL, L4,S18	1.029135	1.617474	0.759872	0.635291	0.967493	1.248459	2.795566
6	ICAL, L5,S18	2.192959	3.519967	1.584757	1.345233	2.063887	2.698316	6.017213

No.	Name	Height µS F ECD_1	Height µS CL ECD_1	Height µS NO2N ECD_1	Height µS BR ECD_1	Height µS NO3N ECD_1	Height µS PO4 ECD_1	Height µS SO4 ECD_1
2	ICAL, L1,S18	0.119928	0.332400	0.084748	0.057026	0.074652	0.061912	0.150120
3	ICAL, L2,S18	0.624736	1.151678	0.427428	0.312212	0.389908	0.332100	0.786078
4	ICAL, L3,S18	2.934282	5.019222	1.815278	1.334402	1.670152	1.537158	3.389914
5	ICAL, L4,S18	7.925782	12.944296	4.498282	3.261344	4.151488	4.029644	8.663126
6	ICAL, L5,S18	18.187422	28.959684	9.537670	7.026382	9.031478	9.108810	19.245860

No.	Name	Amount mg/L-mg/Kg F ECD_1	Amount mg/L-mg/Kg CL ECD_1	Amount mg/L-mg/Kg NO2N ECD_1	Amount mg/L-mg/Kg BR ECD_1	Amount mg/L-mg/Kg NO3N ECD_1	Amount mg/L-mg/Kg PO4 ECD_1	Amount mg/L-mg/Kg SO4 ECD_1
2	ICAL, L1,S18	0.088509	0.268287	0.045841	0.152565	0.047883	0.169101	0.510110
3	ICAL, L2,S18	0.505245	0.980298	0.235735	1.012006	0.256628	0.925752	2.392929
4	ICAL, L3,S18	2.023146	4.072203	1.018944	4.218898	1.046971	4.127700	10.208976
5	ICAL, L4,S18	4.985728	9.958921	2.491093	9.866203	2.470614	9.938275	24.894346
6	ICAL, L5,S18	10.002414	20.006659	5.001430	20.023174	5.005056	20.009590	50.016725

Method File: IC03-7AN_CAL
Operator: ic_analyst

Printed: 3/14/2006 1:26:52 PM

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\069.SEQ

Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/11/2006 3:57:54 PM by ic_analyst

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Inhibit Integration	On	ECD_1
2	2.250	Sensitivity	0.001 "[Signal]"	ECD_1
3	2.250	Minimum Area	0.001 "[Signal]*min"	ECD_1
4	2.250	Peak Slice	0.50 s	ECD_1
5	2.500	Inhibit Integration	Off	ECD_1

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\069.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/11/2006 3:57:54 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Amount ICAL, L1,S1888,500
1	F	2.923 min	5.000 RG	External	Area	Quad	Auto		0.100000
2	CL	4.363 min	5.000 RG	External	Area	Quad	Auto		0.200000
3	NO2N	5.243 min	5.000 RG	External	Area	Quad	Auto		0.050000
4	BR	6.803 min	5.000 RG	External	Area	Quad	Auto		0.200000
5	NO3N	7.740 min	10.000 RG	External	Area	Quad	Auto		0.050000
6	*PO4*	*9.483 min*	*10.000 RG*	*External*	*Area*	*Quad*	*Auto*		*0.200000*
7	SO4	11.243 min	10.000 RG	External	Area	Quad	Auto		0.500000

Method File: IC03-7AN_CAL
Operator: ic_analyst

Printed: 3/14/2006 1:26:52 PM

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\069.SEQ

Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/11/2006 3:57:54 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Amount ICAL, L2,S1888,100	Amount ICAL, L3,S1888,25	Amount ICAL, L4,S1888,10	Amount ICAL, L5,S1888,5	Comment
1	F	2.923 min	0.500000	2.000000	5.000000	10.000000	
2	CL	4.363 min	1.000000	4.000000	10.000000	20.000000	
3	NO2N	5.243 min	0.250000	1.000000	2.500000	5.000000	
4	BR	6.803 min	1.000000	4.000000	10.000000	20.000000	
5	NO3N	7.740 min	0.250000	1.000000	2.500000	5.000000	
6	*PO4*	*9.483 min*	*1.000000*	*4.000000*	*10.000000*	*20.000000*	
7	SO4	11.243 min	2.500000	10.000000	25.000000	50.000000	

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Method File: IC03-7AN_CAL
Operator: ic_analyst

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\069.SEQ

Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/11/2006 3:57:54 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Resp.Fact.	Amount ICAL, L1,S1888,500	Amount ICAL, L2,S1888,100	Amount ICAL, L3,S1888,25	Amount ICAL, L4,S1888,10
1	F	2.923 min	1.000000	0.100000	0.500000	2.000000	5.000000
2	CL	4.363 min	1.000000	0.200000	1.000000	4.000000	10.000000
3	NO2N	5.243 min	1.000000	0.050000	0.250000	1.000000	2.500000
4	BR	6.803 min	1.000000	0.200000	1.000000	4.000000	10.000000
5	NO3N	7.740 min	1.000000	0.050000	0.250000	1.000000	2.500000
6	*PO4*	*9.483 min*	*1.000000*	*0.200000*	*1.000000*	*4.000000*	*10.000000*
7	SO4	11.243 min	1.000000	0.500000	2.500000	10.000000	25.000000

Method File: IC03-7AN_CAL
Operator: ic_analyst

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\069.SEQ

Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/11/2006 3:57:54 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Amount Comment ICAL, L5,S1888,5
1	F	2.923 min	10.000000
2	CL	4.363 min	20.000000
3	NO2N	5.243 min	5.000000
4	BR	6.803 min	20.000000
5	NO3N	7.740 min	5.000000
6	*PO4*	*9.483 min*	*20.000000*
7	SO4	11.243 min	50.000000

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Method File: IC03-7AN_CAL
Operator: ic_analyst

Printed: 3/14/2006 1:26:53 PM

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\069.SEQ

Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/11/2006 3:57:54 PM by ic_analyst

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time
1	☒	ICAL, L1,S1888,500	2	179	25.0	1.0000	1.0000	1.0000	3/1/2006 3:02:19 PM
2	☒	ICAL, L2,S1888,100	3	179	25.0	1.0000	1.0000	1.0000	3/1/2006 3:20:44 PM
3	☒	ICAL, L3,S1888,25	4	180	25.0	1.0000	1.0000	1.0000	3/1/2006 3:39:08 PM
4	☒	ICAL, L4,S1888,10	5	181	25.0	1.0000	1.0000	1.0000	3/1/2006 3:57:33 PM
5	☒	ICAL, L5,S1888,5	6	182	25.0	1.0000	1.0000	1.0000	3/1/2006 4:15:58 PM

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Method File: IC03-7AN_CAL
Operator: ic_analyst

Printed: 3/14/2006 1:26:53 PM

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\069.SEQ

Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/11/2006 3:57:54 PM by ic_analyst

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

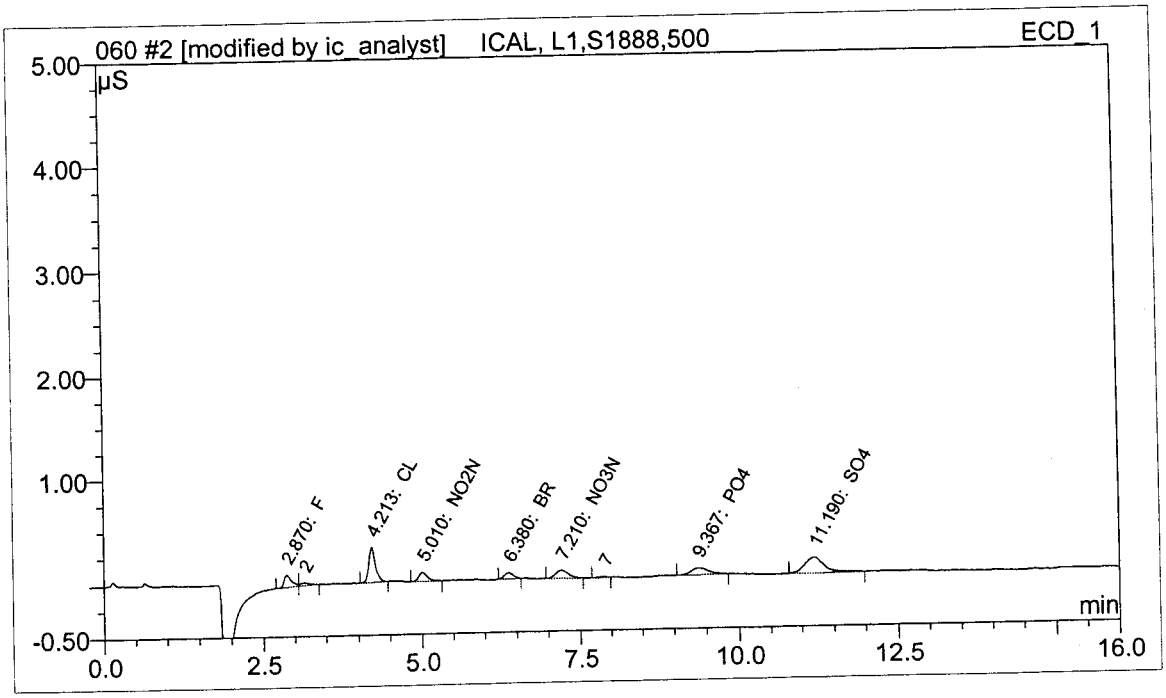
No.	Enabled	Name	Calib. Comment
1	☒	ICAL, L1,S1888,500	Ok
2	☒	ICAL, L2,S1888,100	Ok
3	☒	ICAL, L3,S1888,25	Ok
4	☒	ICAL, L4,S1888,10	Ok
5	☒	ICAL, L5,S1888,5	Ok

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L1,S1888,500	**Sample No.:**	2
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:02 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.017161	0.0885	0.0885	
3	CL	4.213	0.040074	0.2683	0.2683	
4	NO2N	5.010	0.013455	0.0458	0.0458	
5	BR	6.380	0.009416	0.1526	0.1526	
6	NO3N	7.210	0.017801	0.0479	0.0479	
8	PO4	9.367	0.019729	0.1691	0.1691	
9	SO4	11.190	0.053320	0.5101	0.5101	



ANALYZED BY: _____

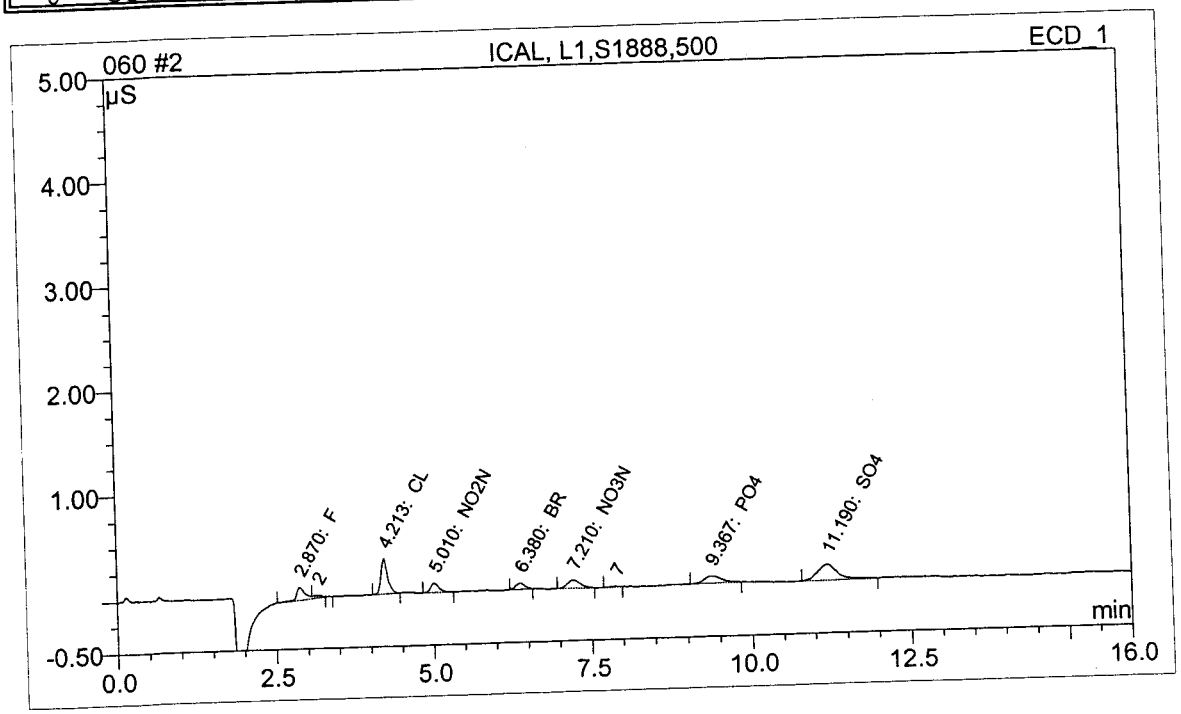
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L1,S1888,500	**Sample No.:**	2
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:02 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.023606	0.1216	0.1216	
3	CL	4.213	0.040074	0.2683	0.2683	
4	NO2N	5.010	0.013455	0.0458	0.0458	
5	BR	6.380	0.009416	0.1526	0.1526	
6	NO3N	7.210	0.017801	0.0479	0.0479	
8	PO4	9.367	0.019729	0.1691	0.1691	
9	SO4	11.190	0.053320	0.5101	0.5101	



ANALYZED BY:

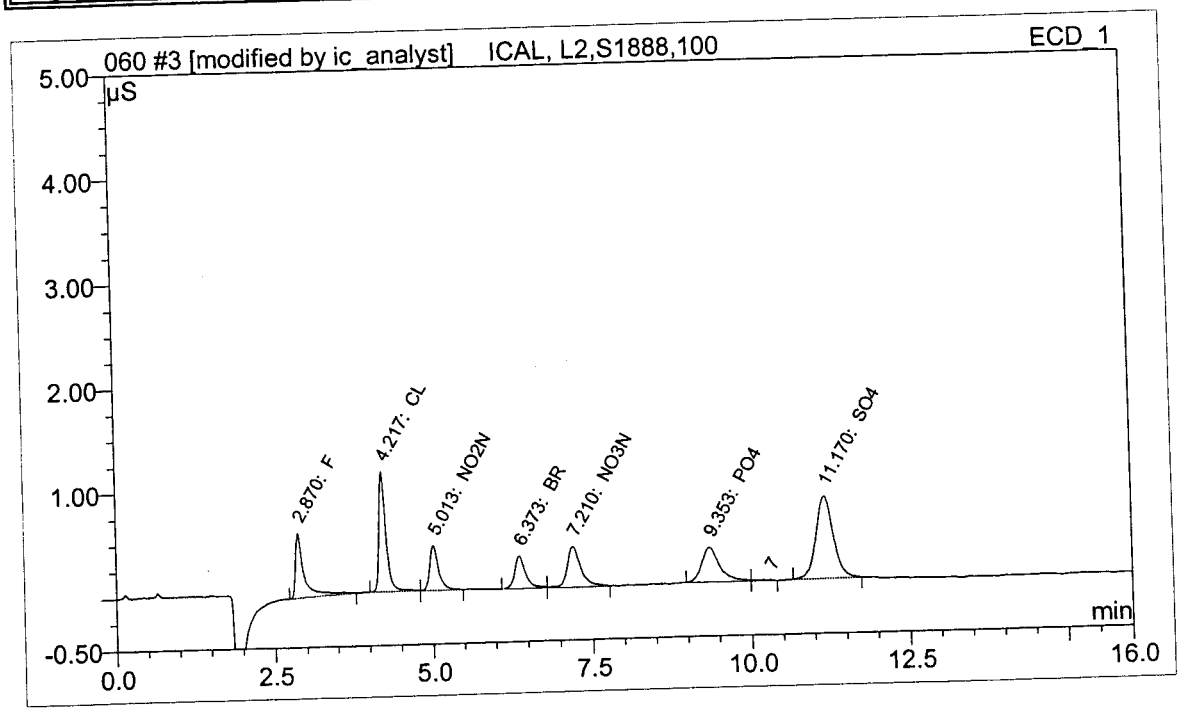
REVIEWED BY:

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L2,S1888,100	**Sample No.:**	3
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:20 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.098503	0.5052	0.5052	
2	CL	4.217	0.147367	0.9803	0.9803	
3	NO2N	5.013	0.069403	0.2357	0.2357	
4	BR	6.373	0.062700	1.0120	1.0120	
5	NO3N	7.210	0.095842	0.2566	0.2566	
6	PO4	9.353	0.108648	0.9258	0.9258	
8	SO4	11.170	0.251558	2.3929	2.3929	



ANALYZED BY:

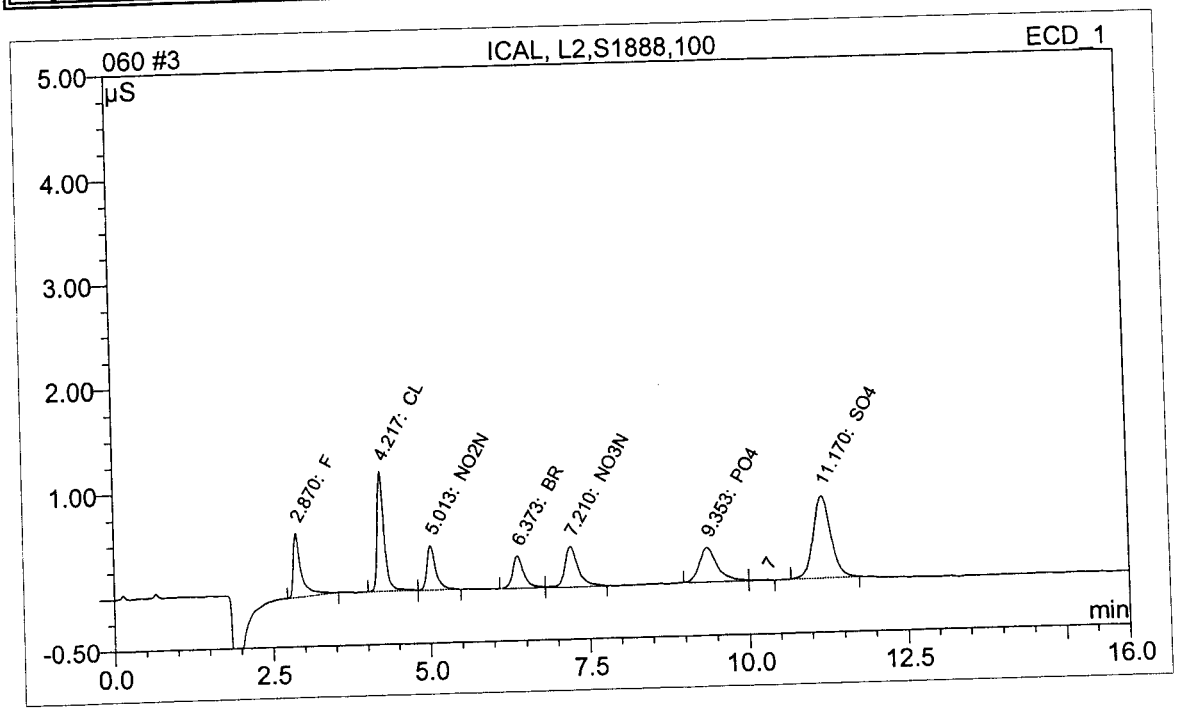
REVIEWED BY:

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L2,S1888,100	**Sample No.:**	3
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:20 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.089672	0.4613	0.4613	
2	CL	4.217	0.147367	0.9803	0.9803	
3	NO2N	5.013	0.069403	0.2357	0.2357	
4	BR	6.373	0.062700	1.0120	1.0120	
5	NO3N	7.210	0.095842	0.2566	0.2566	
6	PO4	9.353	0.108648	0.9258	0.9258	
8	SO4	11.170	0.251558	2.3929	2.3929	



ANALYZED BY: _____

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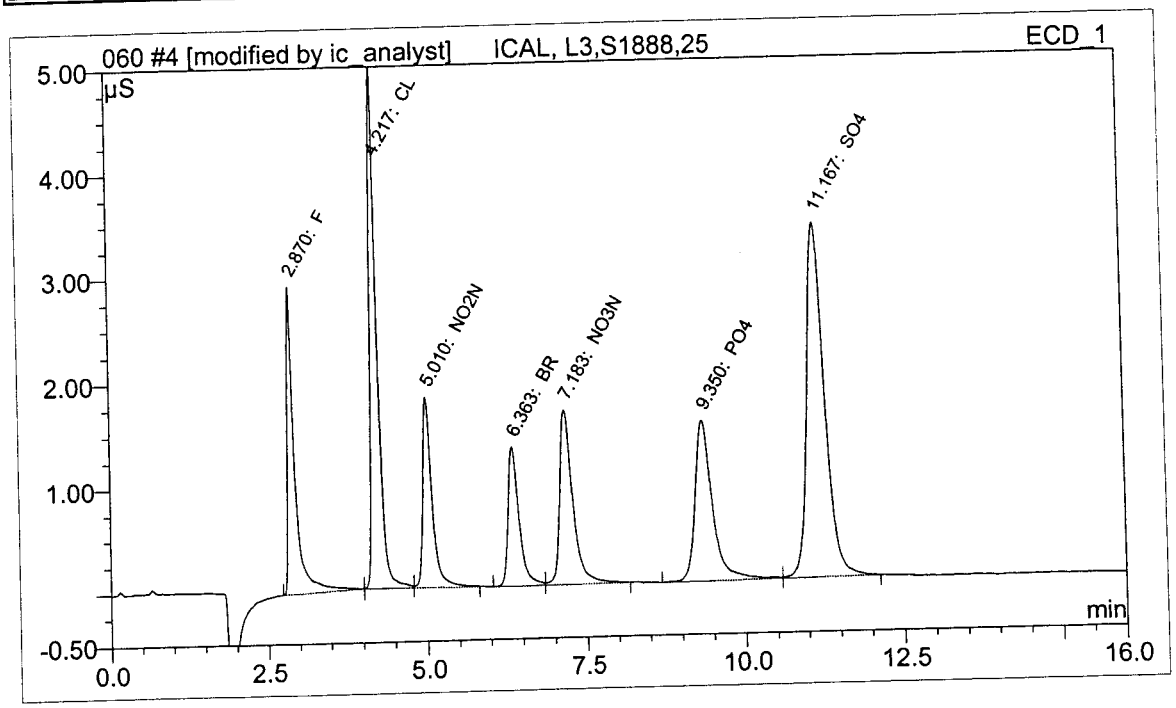
Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L3,S1888,25	**Sample No.:**	4
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:39 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.402286	2.0231	2.0231	
2	CL	4.217	0.629116	4.0722	4.0722	
3	NO2N	5.010	0.303748	1.0189	1.0189	
4	BR	6.363	0.265105	4.2189	4.2189	
5	NO3N	7.183	0.397785	1.0470	1.0470	
6	PO4	9.350	0.496547	4.1277	4.1277	
7	SO4	11.167	1.098657	10.2090	10.2090	



ANALYZED BY: _____

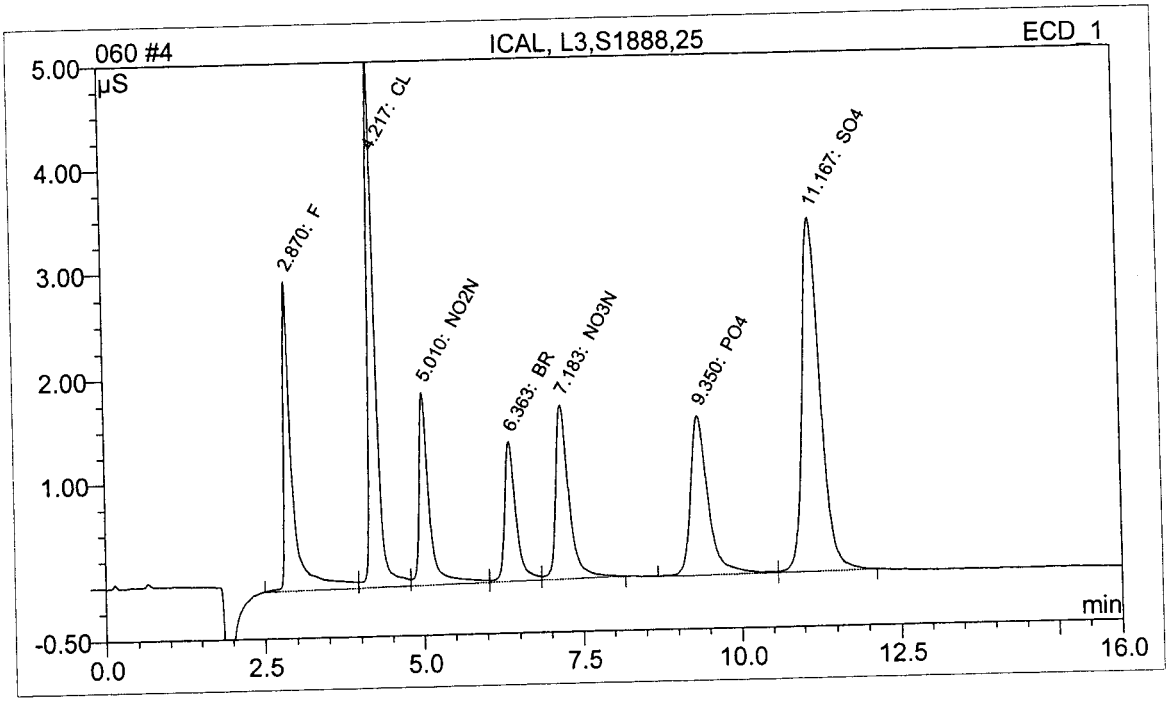
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L3,S1888,25	**Sample No.:**	4
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:39 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.455269	2.2018	2.2018	
2	CL	4.217	0.670131	4.2507	4.2507	
3	NO2N	5.010	0.344377	1.1110	1.1110	
4	BR	6.363	0.276408	4.3412	4.3412	
5	NO3N	7.183	0.404782	1.0595	1.0595	
6	PO4	9.350	0.496547	4.1277	4.1277	
7	SO4	11.167	1.098657	10.2090	10.2090	



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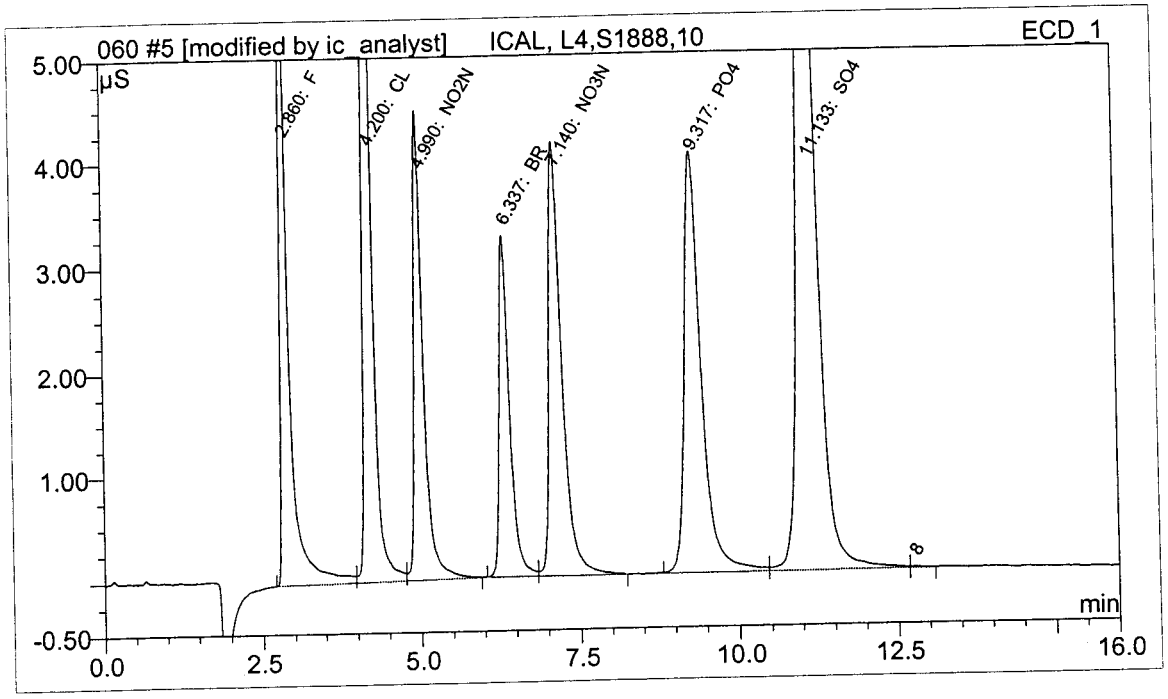
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L4,S1888,10	**Sample No.:**	5
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:57 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.860	1.029135	4.9857	4.9857	
2	CL	4.200	1.617474	9.9589	9.9589	
3	NO2N	4.990	0.759872	2.4911	2.4911	
4	BR	6.337	0.635291	9.8662	9.8662	
5	NO3N	7.140	0.967493	2.4706	2.4706	
6	PO4	9.317	1.248459	9.9383	9.9383	
7	SO4	11.133	2.795566	24.8943	24.8943	



ANALYZED BY: _____

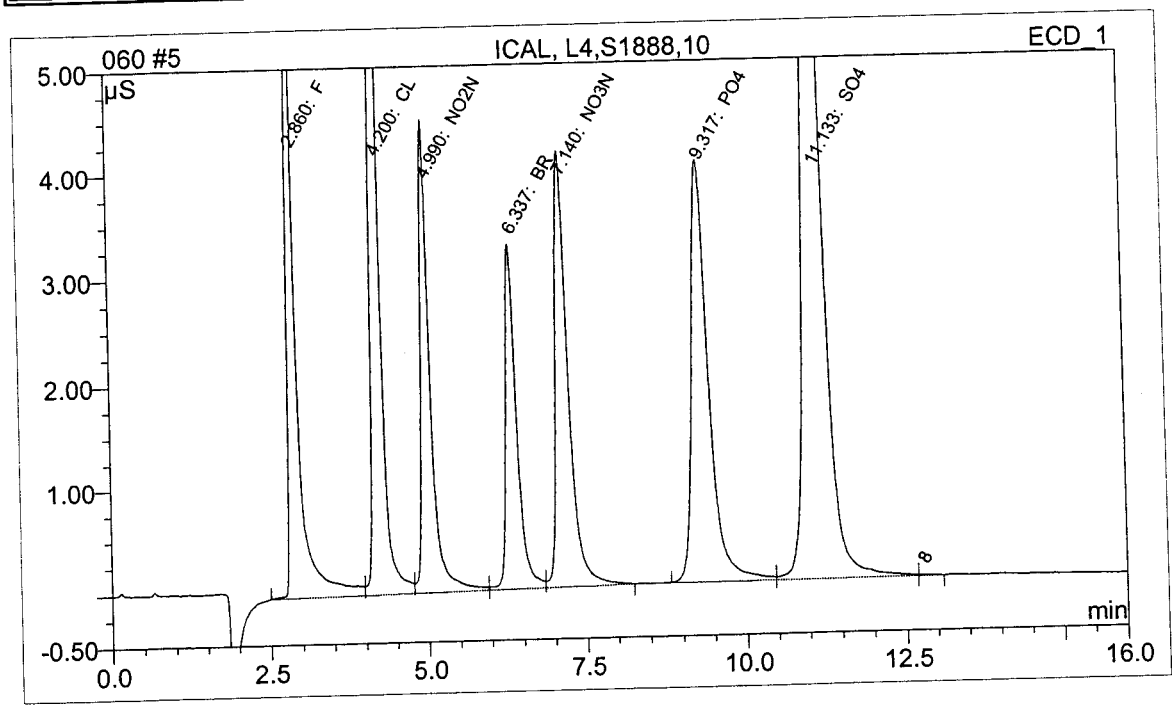
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L4,S1888,10	**Sample No.:**	5
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:57 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.860	1.056871	5.0244	5.0244	
2	CL	4.200	1.636258	9.9916	9.9916	
3	NO2N	4.990	0.792664	2.5227	2.5227	
4	BR	6.337	0.658007	9.9696	9.9696	
5	NO3N	7.140	0.980796	2.4805	2.4805	
6	PO4	9.317	1.248459	9.9383	9.9383	
7	SO4	11.133	2.795566	24.8943	24.8943	



ANALYZED BY:

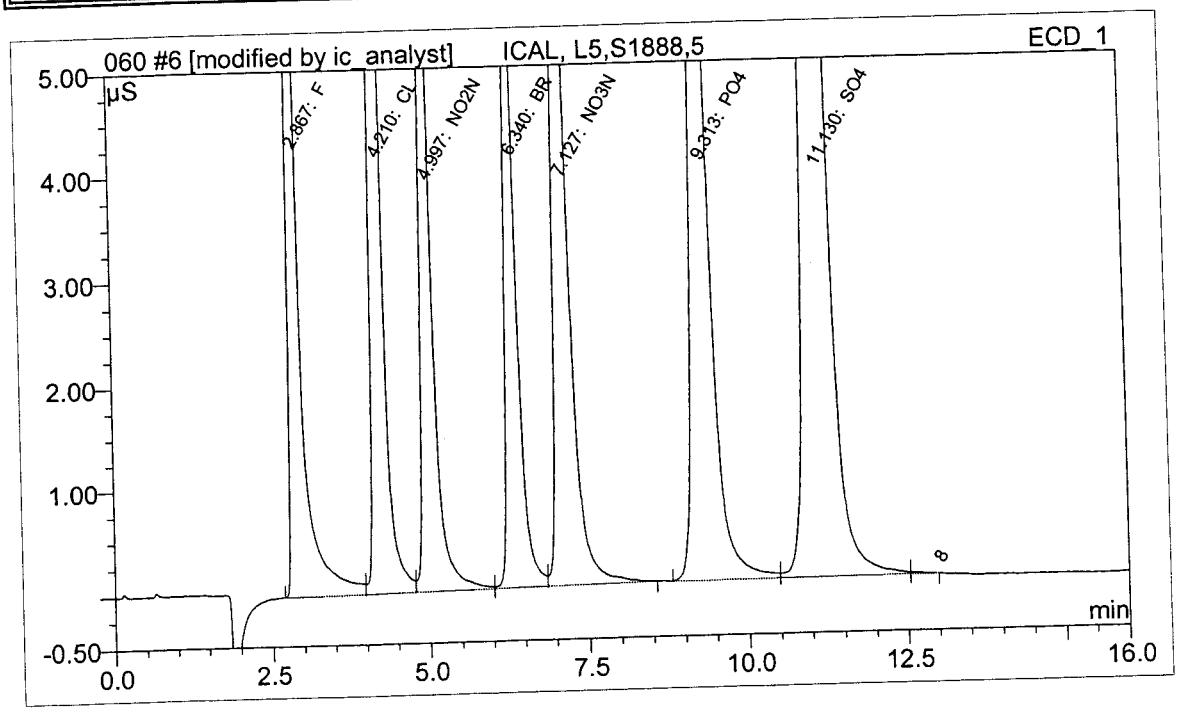
REVIEWED BY:

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L5,S1888,5	**Sample No.:**	6
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:15 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.867	2.192959	10.0024	10.0024	
2	CL	4.210	3.519967	20.0067	20.0067	
3	NO2N	4.997	1.584757	5.0014	5.0014	
4	BR	6.340	1.345233	20.0232	20.0232	
5	NO3N	7.127	2.063887	5.0051	5.0051	
6	PO4	9.313	2.698316	20.0096	20.0096	
7	SO4	11.130	6.017213	50.0167	50.0167	



ANALYZED BY:

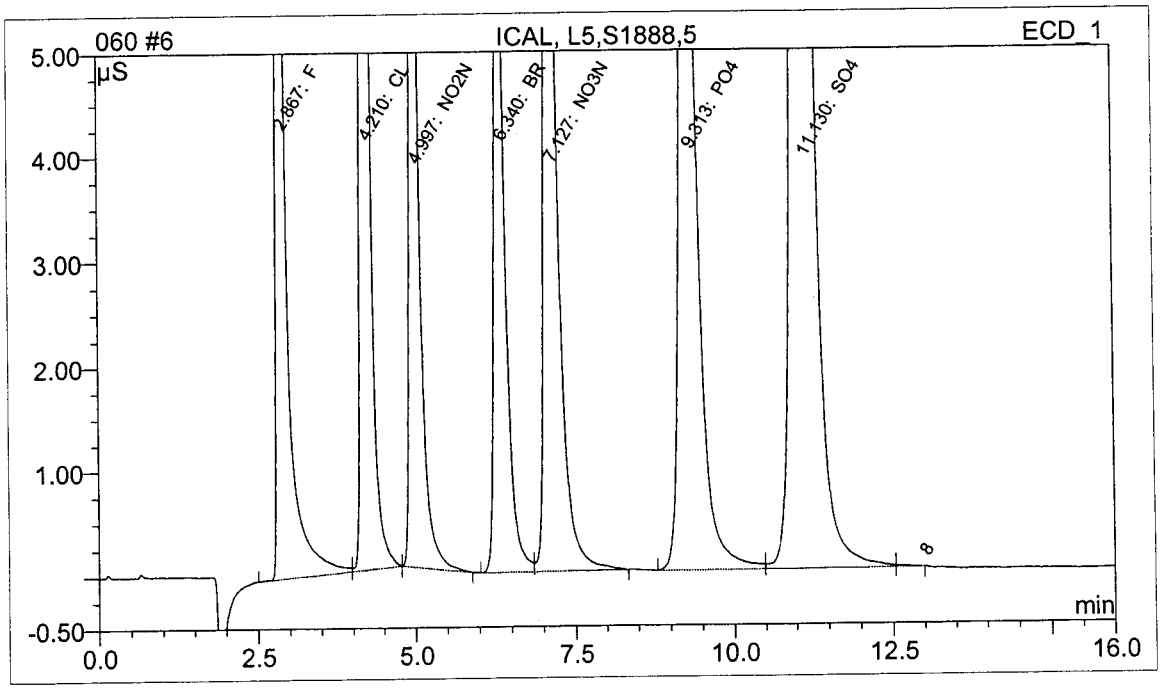
REVIEWED BY:

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L5,S1888,5	**Sample No.:**	6
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:15 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.867	2.155657	10.0007	10.0007	
2	CL	4.210	3.453075	20.0031	20.0031	
3	NO2N	4.997	1.510616	4.9988	4.9988	
4	BR	6.340	1.331781	20.0216	20.0216	
5	NO3N	7.127	2.045893	5.0047	5.0047	
6	PO4	9.313	2.698316	20.0096	20.0096	
7	SO4	11.130	6.017213	50.0167	50.0167	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185457 IC Water
EPA 300.0

Inst : IC03
Calnum : 626087283001 Cal Date: 01-MAR-2006

ICV 626087283007 (060_7.000 01-MAR-2006) stds: S1085 (5X)

Analyte	Spiked	Quant	Units	%D	Max	Flags
Fluoride	1.000	0.9473	mg/L	-5	10	
Chloride	2.000	1.920	mg/L	-4	10	
Nitrogen, Nitrite	0.5000	0.4860	mg/L	-3	10	
Nitrogen, Nitrate	0.5000	0.4606	mg/L	-8	10	
Sulfate	5.000	5.047	mg/L	1	10	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 300.0

Inst : IC03
Seqnum : 626087283007
Cal : 626087283001
Standards: S1085 (5X)

File : 060_7.000
Caldate: 01-MAR-2006

IDF : 1.0
Time : 01-MAR-2006 16:34

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Fluoride	0.1990	0.1858	1.000	0.9473	mg/L	-5	10	
Chloride	0.1686	0.1455	2.000	1.920	mg/L	-4	10	
Nitrogen, Nitrite	0.2943	0.2873	0.5000	0.4860	mg/L	-3	10	
Bromide	0.0614	0.0638	2.000	2.050	mg/L	2	10	
Nitrogen, Nitrate	0.3874	0.3456	0.5000	0.4606	mg/L	-8	10	
Orthophosphate (as P)	0.1182	0.1201	2.000	2.029	mg/L	1	10	
Sulfate	0.1099	0.1070	5.000	5.047	mg/L	1	10	

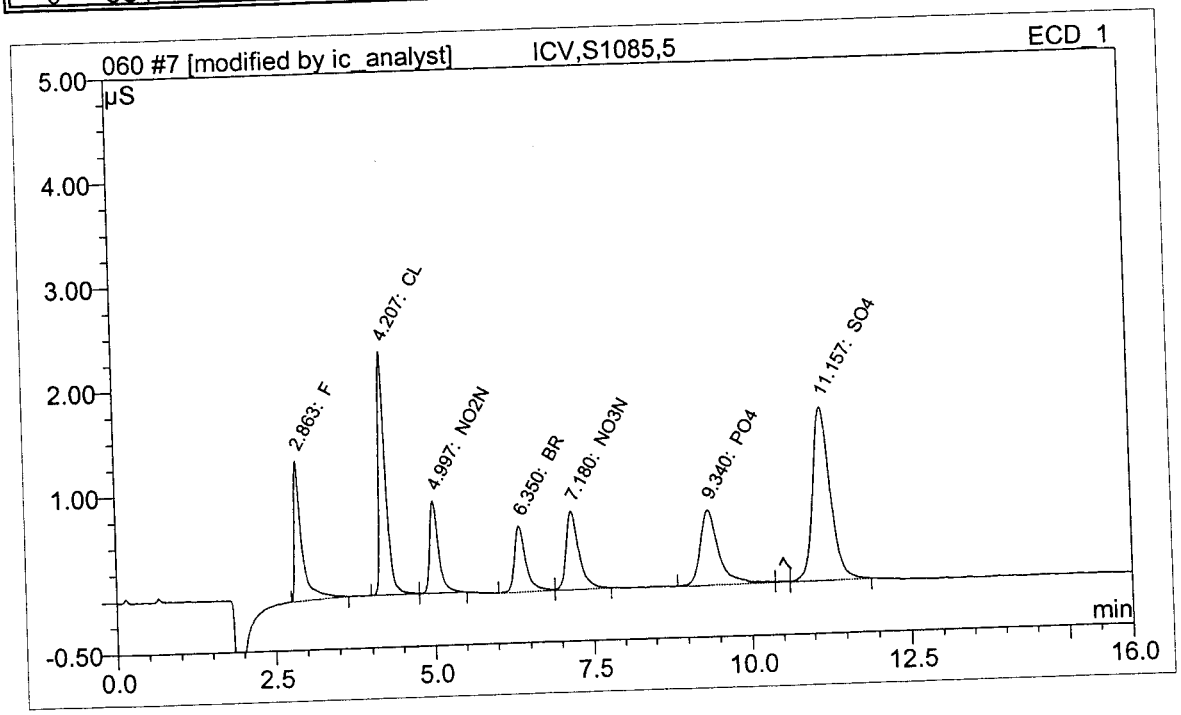
MRS 3/2/06

626087283007

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:34 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.863	0.185760	0.9473	0.9473	
2	CL	4.207	0.291093	1.9202	1.9202	
3	NO2N	4.997	0.143651	0.4860	0.4860	
4	BR	6.350	0.127568	2.0496	2.0496	
5	NO3N	7.180	0.172776	0.4606	0.4606	
6	PO4	9.340	0.240207	2.0292	2.0292	
8	SO4	11.157	0.534812	5.0468	5.0468	



ANALYZED BY: _____

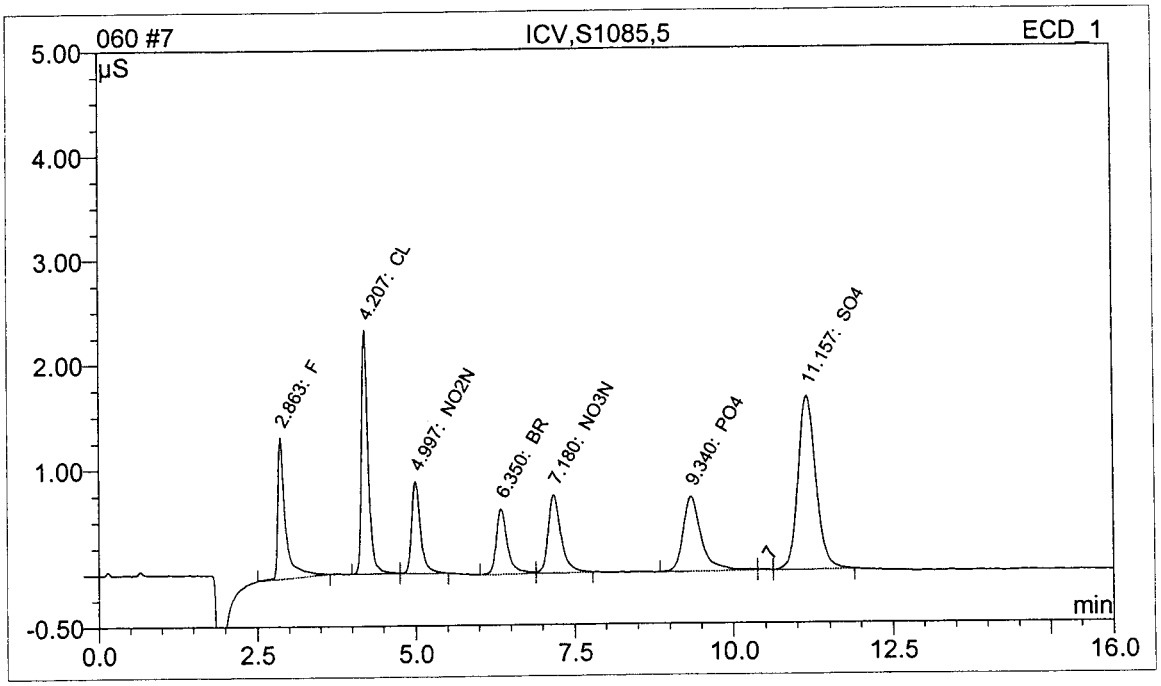
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:34 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.863	0.193974	0.9887	0.9887	
2	CL	4.207	0.291093	1.9202	1.9202	
3	NO2N	4.997	0.143651	0.4860	0.4860	
4	BR	6.350	0.127568	2.0496	2.0496	
5	NO3N	7.180	0.172776	0.4606	0.4606	
6	PO4	9.340	0.240207	2.0292	2.0292	
8	SO4	11.157	0.534812	5.0468	5.0468	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CONTINUING CALIBRATION SUMMARY FOR 185457 IC Water
Curtis & Tompkins Laboratories

Analyte: Fluoride

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606100050028	10-MAR-2006 17:13	606046871001	01-FEB-2006	0.2814	0.2547	0.5000	0.4549	mg/L	-9	10	
IC01	P	606100050040	10-MAR-2006 20:44	606046871001	01-FEB-2006	0.2814	0.2687	2.0000	1.8882	mg/L	-6	10	
IC01	P	606100050058	11-MAR-2006 01:59	606046871001	01-FEB-2006	0.2814	0.2971	5.0000	5.0425	mg/L	1	10	
IC01	P	606100050081	11-MAR-2006 08:41	606046871001	01-FEB-2006	0.2814	0.2607	0.5000	0.4656	mg/L	-7	10	
IC03	P	626100048028	10-MAR-2006 18:05	626087283001	01-MAR-2006	0.1990	0.1811	0.5000	0.4646	mg/L	-7	10	
IC03	P	626100048043	10-MAR-2006 22:11	626087283001	01-MAR-2006	0.1990	0.2026	2.0000	2.0372	mg/L	2	10	
IC03	P	626100048061	11-MAR-2006 03:07	626087283001	01-MAR-2006	0.1990	0.2184	5.0000	5.2713	mg/L	5	10	

CONTINUING CALIBRATION SUMMARY FOR 185457 IC Water
Curtis & Tompkins Laboratories

Analyte: Chloride

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606100050028	10-MAR-2006 17:13	606046871001	01-FEB-2006	0.1842	0.1685	1.0000	0.9624	mg/L	-4	10	
IC01	P	606100050040	10-MAR-2006 20:44	606046871001	01-FEB-2006	0.1842	0.1738	4.0000	3.8684	mg/L	-3	10	
IC01	P	606100050058	11-MAR-2006 01:59	606046871001	01-FEB-2006	0.1842	0.1967	10.000	10.348	mg/L	3	10	
IC01	P	606100050081	11-MAR-2006 08:41	606046871001	01-FEB-2006	0.1842	0.1769	1.0000	1.0100	mg/L	1	10	
IC01	P	606100050101	11-MAR-2006 14:32	606046871001	01-FEB-2006	0.1842	0.1808	4.0000	4.0178	mg/L	0	10	
IC03	P	626100048028	10-MAR-2006 18:05	626087283001	01-MAR-2006	0.1686	0.1383	1.0000	0.9203	mg/L	-8	10	
IC03	P	626100048043	10-MAR-2006 22:11	626087283001	01-MAR-2006	0.1686	0.1501	4.0000	3.8917	mg/L	-3	10	
IC03	P	626100048061	11-MAR-2006 03:07	626087283001	01-MAR-2006	0.1686	0.1630	10.000	10.031	mg/L	0	10	
IC03	P	626100048084	11-MAR-2006 09:24	626087283001	01-MAR-2006	0.1686	0.1476	1.0000	0.9815	mg/L	-2	10	

CONTINUING CALIBRATION SUMMARY FOR 185457 IC Water
Curtis & Tompkins Laboratories

Analyte: Nitrogen, Nitrite

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606100050028	10-MAR-2006 17:13	606046871001	01-FEB-2006	0.3733	0.3466	0.2500	0.2416	mg/L	-3	10	
IC01	P	606100050040	10-MAR-2006 20:44	606046871001	01-FEB-2006	0.3733	0.3446	1.0000	0.9512	mg/L	-5	10	
IC01	P	606100050058	11-MAR-2006 01:59	606046871001	01-FEB-2006	0.3733	0.3743	2.5000	2.5273	mg/L	1	10	
IC01	P	606100050081	11-MAR-2006 08:41	606046871001	01-FEB-2006	0.3733	0.3500	0.2500	0.2439	mg/L	-2	10	
IC03	P	626100048028	10-MAR-2006 18:05	626087283001	01-MAR-2006	0.2943	0.2835	0.2500	0.2407	mg/L	-4	10	
IC03	P	626100048043	10-MAR-2006 22:11	626087283001	01-MAR-2006	0.2943	0.2910	1.0000	0.9769	mg/L	-2	10	
IC03	P	626100048061	11-MAR-2006 03:07	626087283001	01-MAR-2006	0.2943	0.3110	2.5000	2.5468	mg/L	2	10	

CONTINUING CALIBRATION SUMMARY FOR 185457 IC Water
Curtis & Tompkins Laboratories

Analyte: Nitrogen, Nitrate

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606100050028	10-MAR-2006 17:13	606046871001	01-FEB-2006	0.4558	0.4292	0.2500	0.2427	mg/L	-3	10	
IC01	P	606100050040	10-MAR-2006 20:44	606046871001	01-FEB-2006	0.4558	0.4385	1.0000	0.9779	mg/L	-2	10	
IC01	P	606100050058	11-MAR-2006 01:59	606046871001	01-FEB-2006	0.4558	0.4836	2.5000	2.6161	mg/L	5	10	
IC01	P	606100050081	11-MAR-2006 08:41	606046871001	01-FEB-2006	0.4558	0.4573	0.2500	0.2585	mg/L	3	10	
IC03	P	626100048028	10-MAR-2006 18:05	626087283001	01-MAR-2006	0.3874	0.3610	0.2500	0.2417	mg/L	-3	10	
IC03	P	626100048043	10-MAR-2006 22:11	626087283001	01-MAR-2006	0.3874	0.3710	1.0000	0.9780	mg/L	-2	10	
IC03	P	626100048061	11-MAR-2006 03:07	626087283001	01-MAR-2006	0.3874	0.3949	2.5000	2.5185	mg/L	1	10	

CONTINUING CALIBRATION SUMMARY FOR 185457 IC Water
Curtis & Tompkins Laboratories

Analyte: Sulfate

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606100050028	10-MAR-2006 17:13	606046871001	01-FEB-2006	0.1305	0.1213	2.5000	2.3903	mg/L	-4	10	
IC01	P	606100050040	10-MAR-2006 20:44	606046871001	01-FEB-2006	0.1305	0.1263	10.000	9.7885	mg/L	-2	10	
IC01	P	606100050058	11-MAR-2006 01:59	606046871001	01-FEB-2006	0.1305	0.1396	25.000	26.058	mg/L	4	10	
IC01	P	606100050081	11-MAR-2006 08:41	606046871001	01-FEB-2006	0.1305	0.1285	2.5000	2.5322	mg/L	1	10	
IC01	P	606100050101	11-MAR-2006 14:32	606046871001	01-FEB-2006	0.1305	0.1298	10.000	10.054	mg/L	1	10	
IC03	P	626100048028	10-MAR-2006 18:05	626087283001	01-MAR-2006	0.1099	0.0982	2.5000	2.3360	mg/L	-7	10	
IC03	P	626100048043	10-MAR-2006 22:11	626087283001	01-MAR-2006	0.1099	0.1064	10.000	9.8974	mg/L	-1	10	
IC03	P	626100048061	11-MAR-2006 03:07	626087283001	01-MAR-2006	0.1099	0.1133	25.000	25.206	mg/L	1	10	
IC03	P	626100048084	11-MAR-2006 09:24	626087283001	01-MAR-2006	0.1099	0.1059	2.5000	2.5163	mg/L	1	10	

CURTIS & TOMPKINS BLANK USER REPORT FOR 185457 IC Water
EPA 300.0

Inst	: IC01	Lab ID	: QC331101		
Seqnum	: 606100050029.1	Matrix	: Water		
File	: 069_29.000	Batch	: 111216	Time	: 10-MAR-2006 17:31
IDF	: 1.0	PDF	: 1.0	Units	: mg/L
Cal	: 606046871001	Caldate	: 01-FEB-2006		

Analyte	Result	RL	Flags
Fluoride	ND	0.10	
Chloride	ND	0.20	
Nitrogen, Nitrite	ND	0.05	
Nitrogen, Nitrate	ND	0.05	
Sulfate	ND	0.50	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185457 IC Water
EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606100050041 File : 069_41.000 Time : 10-MAR-2006 21:01
Cal : 606046871001 Caldate: 01-FEB-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.006664	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185457 IC Water
EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606100050059 File : 069_59.000 Time : 11-MAR-2006 02:16
Cal : 606046871001 Caldate: 01-FEB-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.006664	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185457 IC Water
EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606100050082 File : 069_82.000 Time : 11-MAR-2006 08:59
Cal : 606046871001 Caldate: 01-FEB-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.006664	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185457 IC Water
EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606100050102 File : 069_102.000 Time : 11-MAR-2006 14:49
Cal : 606046871001 Caldate: 01-FEB-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.006664	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

CURTIS & TOMPKINS BLANK USER REPORT FOR 185457 IC Water
EPA 300.0

Inst	: IC03	Lab ID	: QC331096		
Seqnum	: 626100048029.1	Matrix	: Water		
File	: 069_29.000	Batch	: 111215	Time	: 10-MAR-2006 18:21
IDF	: 1.0	PDF	: 1.0	Units	: mg/L
Cal	: 626087283001	Caldate	: 01-MAR-2006		

Analyte	Result	RL	Flags
Fluoride	ND	0.10	
Chloride	ND	0.20	
Nitrogen, Nitrite	ND	0.05	
Nitrogen, Nitrate	ND	0.05	
Sulfate	ND	0.50	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185457 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626100048044 File : 069_44.000 Time : 10-MAR-2006 22:28
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185457 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626100048062 File : 069_62.000 Time : 11-MAR-2006 03:23
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185457 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626100048085 File : 069_85.000 Time : 11-MAR-2006 09:40
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

SEQUENCE SUMMARY FOR 185457 IC Water
Curtis & Tompkins Laboratories

Sequence: 606046871 Instrument: IC01 Ion Chromatograph Begun: 01-FEB-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	032_1.00	IB				01-FEB-2006 13:11	1.0		25				
002	032_2.00	ICAL	L1			01-FEB-2006 13:28	1.0					1	
003	032_3.00	ICAL	L2			01-FEB-2006 13:46	1.0					1	
004	032_4.00	ICAL	L3			01-FEB-2006 14:03	1.0					1	
005	032_5.00	ICAL	L4			01-FEB-2006 14:21	1.0					1	
006	032_6.00	ICAL	L5			01-FEB-2006 14:38	1.0					1	
007	032_7.00	ICV				01-FEB-2006 14:56	1.0	1	25			2	
008	032_8.00	ICB/MB	QC326493	110078	Water	01-FEB-2006 15:13	1.0	1	25				
009	032_9.00	BS	QC326494	110078	Water	01-FEB-2006 15:31	1.0	1	25			1	
010	032_10.0	BSD	QC326495	110078	Water	01-FEB-2006 15:48	1.0	1	25			1	
011	032_11.0	SAMPLE	184665-001	110078	Water	01-FEB-2006 16:19	1.0	1	25				1:CL=32.4397
012	032_12.0	SAMPLE	184665-005	110078	Water	01-FEB-2006 16:37	1.0	1	25				1:CL=32.5432
013	032_13.0	MSS	184665-006	110078	Water	01-FEB-2006 16:54	1.0	2	25				1:CL=34.9403
014	032_14.0	SAMPLE	184665-007	110078	Water	01-FEB-2006 17:12	1.0		25				
015	032_15.0	SAMPLE	184646-001	110078	Water	01-FEB-2006 17:29	100.0		25				
016	032_16.0	SAMPLE	184646-002	110078	Water	01-FEB-2006 17:47	100.0		25				
017	032_17.0	SAMPLE	184646-003	110078	Water	01-FEB-2006 18:04	100.0		25				
018	032_18.0	CCV	M	110078		01-FEB-2006 18:22	1.0		25			1	
019	032_19.0	CCB		110078		01-FEB-2006 18:39	1.0		25				
020	032_20.0	SAMPLE	184646-004	110078	Water	01-FEB-2006 18:57	100.0		25				
021	032_21.0	SAMPLE	184606-003	110078	Water	01-FEB-2006 19:14	1.0		25				1:CL=67.2883
022	032_22.0	SAMPLE	184606-006	110078	Water	01-FEB-2006 19:32	1.0	1	25				3:SO4=258.533
023	032_23.0	X	BLK	110078		01-FEB-2006 19:49	1.0						
024	032_24.0	SAMPLE	184665-008	110078	Water	01-FEB-2006 20:07	1.0		25				
025	032_25.0	SAMPLE	184665-009	110078	Water	01-FEB-2006 20:24	1.0	1	25				1:CL=23.2597
026	032_26.0	SAMPLE	184665-001	110078	Water	01-FEB-2006 20:42	2.0		25				
027	032_27.0	SAMPLE	184665-005	110078	Water	01-FEB-2006 20:59	2.0		25				
028	032_28.0	MSS	184665-006	110078	Water	01-FEB-2006 21:17	2.0	1	25				
029	032_29.0	MS	QC326496	110078	Water	01-FEB-2006 21:34	5.0	1	25			1	
030	032_30.0	MSD	QC326497	110078	Water	01-FEB-2006 21:52	5.0	1	25			1	
031	032_31.0	CCV	H	110078		01-FEB-2006 22:10	1.0	1	25			1	

Stds used: 1=S1888 2=S1085

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SEQUENCE SUMMARY FOR 185457 IC Water
Curtis & Tompkins Laboratories

Sequence: 606046871 Instrument: IC01 Ion Chromatograph Begun: 01-FEB-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
032	032_32.0	CCB		110078		01-FEB-2006 22:27	1.0	1		25				
033	032_33.0	X	CCV	110078		01-FEB-2006 22:45	1.0						1	
034	032_34.0	X	CCB	110078		01-FEB-2006 23:02	1.0							
035	032_35.0	SAMPLE	184665-009	110078	Water	01-FEB-2006 23:20	2.0			25				
036	032_36.0	SAMPLE	184669-006	110078	Water	01-FEB-2006 23:37	100.0			25				
037	032_37.0	SAMPLE	184669-006	110078	Water	01-FEB-2006 23:55	10.0	1		25			1:NO3N=9.88433	
038	032_38.0	X	BLK	110078		02-FEB-2006 00:12	1.0							
039	032_39.0	SAMPLE	184606-006	110078	Water	02-FEB-2006 00:30	2.0			25			2:SO4=142.830	
040	032_40.0	X	BLK	110078		02-FEB-2006 00:47	1.0							
041	032_41.0	SAMPLE	184646-001	110078	Water	02-FEB-2006 01:05	1.0			25				
042	032_42.0	X	BLK	110078		02-FEB-2006 01:22	1.0							
043	032_43.0	SAMPLE	184646-002	110078	Water	02-FEB-2006 01:40	1.0			25				
044	032_44.0	X	BLK	110078		02-FEB-2006 01:57	1.0							
045	032_45.0	SAMPLE	184646-003	110078	Water	02-FEB-2006 02:15	1.0			25				
046	032_46.0	X	BLK	110078		02-FEB-2006 02:32	1.0							799
047	032_47.0	SAMPLE	184646-004	110078	Water	02-FEB-2006 02:50	1.0			25				
048	032_48.0	X	BLK	110078		02-FEB-2006 03:07	1.0							
049	032_49.0	X	BLK	110078		02-FEB-2006 03:25	1.0							
050	032_50.0	X	CCV	110078		02-FEB-2006 03:42	1.0						1	
051	032_51.0	X	CCB	110078		02-FEB-2006 04:00	1.0							
052	032_52.0	CCV	L	110078		02-FEB-2006 04:17	1.0	2		25			1	
053	032_53.0	CCB		110078		02-FEB-2006 04:35	1.0			25				
054	032_54.0	X	SHUTDOWN	110078		02-FEB-2006 04:52	1.0							

Stds used: 1=S1888 2=S1085

SEQUENCE SUMMARY FOR 185457 IC Water
Curtis & Tompkins Laboratories

Sequence: 626087283 Instrument: IC03 Ion Chromatograph Begun: 01-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	060_1.00	IB				01-MAR-2006 14:43	1.0		25				
002	060_2.00	ICAL	L1			01-MAR-2006 15:02	1.0					1	
003	060_3.00	ICAL	L2			01-MAR-2006 15:20	1.0					1	
004	060_4.00	ICAL	L3			01-MAR-2006 15:39	1.0					1	
005	060_5.00	ICAL	L4			01-MAR-2006 15:57	1.0					1	
006	060_6.00	ICAL	L5			01-MAR-2006 16:15	1.0					1	
007	060_7.00	ICV				01-MAR-2006 16:34	1.0		25			2	
008	060_8.00	ICB				01-MAR-2006 16:52	1.0		25				

008

Stds used: 1=S1888 2=S1085

SEQUENCE SUMMARY FOR 185457 IC Water
Curtis & Tompkins Laboratories

Sequence: 606100050 Instrument: IC01 Ion Chromatograph Begun: 10-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
007	069_7.00	CCV	L	111212		10-MAR-2006 10:37	1.0	2		25			1	
008	069_8.00	CCB/MB	QC331081	111212	Water	10-MAR-2006 10:55	1.0	3		25				
009	069_9.00	BS	QC331082	111212	Water	10-MAR-2006 11:12	1.0	3		25			1	
010	069_10.0	BSD	QC331083	111212	Water	10-MAR-2006 11:30	1.0	3		25			1	
011	069_11.0	SAMPLE	185380-001	111212	Water	10-MAR-2006 11:48	500.0			25				
012	069_12.0	SAMPLE	185380-002	111212	Water	10-MAR-2006 12:06	500.0			25				
013	069_13.0	SAMPLE	185380-003	111212	Water	10-MAR-2006 12:24	2000			25				
014	069_14.0	MSS	185380-004	111212	Water	10-MAR-2006 12:41	50.0	3		25				
015	069_15.0	SAMPLE	185380-005	111212	Water	10-MAR-2006 12:59	100.0	1		25				1:CL=23.8054
016	069_16.0	MS	QC331084	111212	Water	10-MAR-2006 13:29	50.0	3		25			1	
017	069_17.0	MSD	QC331085	111212	Water	10-MAR-2006 13:46	50.0	3	1	25			1	
018	069_18.0	CCV	M	111212		10-MAR-2006 14:04	1.0	1		25			1	
019	069_19.0	CCB		111212		10-MAR-2006 14:22	1.0	1		25				
020	069_20.0	SAMPLE	185380-006	111212	Water	10-MAR-2006 14:53	50.0			25				
021	069_21.0	SAMPLE	185380-007	111212	Water	10-MAR-2006 15:11	200.0			25				
022	069_22.0	SAMPLE	185380-008	111212	Water	10-MAR-2006 15:28	50.0			25				
023	069_23.0	SAMPLE	185380-009	111212	Water	10-MAR-2006 15:46	100.0			25				
024	069_24.0	SAMPLE	185380-010	111212	Water	10-MAR-2006 16:03	500.0			25				
025	069_25.0	SAMPLE	185380-005	111212	Water	10-MAR-2006 16:21	200.0			25				
026	069_26.0	CCV	H	111212		10-MAR-2006 16:38	1.0	1		25			1	
027	069_27.0	CCB		111212		10-MAR-2006 16:56	1.0	1		25				
028	069_28.0	CCV	L	111216		10-MAR-2006 17:13	1.0	2		25			1	
029	069_29.0	CCB/MB	QC331101	111216	Water	10-MAR-2006 17:31	1.0			25				
030	069_30.0	MSS	185457-009	111216	Water	10-MAR-2006 17:48	25.0	2		25				
031	069_31.0	MSS	185457-016	111216	Water	10-MAR-2006 18:06	50.0	2		25				
032	069_32.0	MS	QC331104	111216	Water	10-MAR-2006 18:23	25.0			25			1	
033	069_33.0	MSD	QC331105	111216	Water	10-MAR-2006 18:41	25.0			25			1	
034	069_34.0	MS	QC331106	111216	Water	10-MAR-2006 18:58	100.0			25			1	
035	069_35.0	MSD	QC331107	111216	Water	10-MAR-2006 19:16	100.0			25			1	
036	069_36.0	BS	QC331102	111216	Water	10-MAR-2006 19:33	1.0			25			1	
037	069_37.0	BSD	QC331103	111216	Water	10-MAR-2006 19:51	1.0			25			1	

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Stds used: 1=S1888

SEQUENCE SUMMARY FOR 185457 IC Water
Curtis & Tompkins Laboratories

Sequence: 606100050 Instrument: IC01 Ion Chromatograph Begun: 10-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
038	069_38.0	SAMPLE	185457-011	111216	Water	10-MAR-2006 20:08	1.0	1		25				1:CL=55.8402
039	069_39.0	X	BLK	111216		10-MAR-2006 20:26	1.0							
040	069_40.0	CCV	M	111216		10-MAR-2006 20:44	1.0			25			1	
041	069_41.0	CCB		111216		10-MAR-2006 21:01	1.0	1		25				
042	069_42.0	SAMPLE	185457-001	111216	Water	10-MAR-2006 21:19	1.0	1		25				1:CL=135.952
043	069_43.0	X	BLK	111216		10-MAR-2006 21:36	1.0							
044	069_44.0	SAMPLE	185457-007	111216	Water	10-MAR-2006 21:54	1.0	1		25				1:CL=163.415
045	069_45.0	X	BLK	111216		10-MAR-2006 22:11	1.0							
046	069_46.0	SAMPLE	185457-002	111216	Water	10-MAR-2006 22:29	1.0	1		25				1:CL=146.589
047	069_47.0	X	BLK	111216		10-MAR-2006 22:46	1.0							
048	069_48.0	SAMPLE	185457-008	111216	Water	10-MAR-2006 23:04	1.0	1		25				1:CL=187.720
049	069_49.0	X	BLK	111216		10-MAR-2006 23:21	1.0							
050	069_50.0	MSS	185457-009	111216	Water	10-MAR-2006 23:39	1.0	2		25				1:CL=47.3651
051	069_51.0	X	BLK	111216		10-MAR-2006 23:56	1.0							
052	069_52.0	SAMPLE	185457-001	111216	Water	11-MAR-2006 00:14	25.0			25				
053	069_53.0	SAMPLE	185457-002	111216	Water	11-MAR-2006 00:31	25.0			25				
054	069_54.0	SAMPLE	185457-007	111216	Water	11-MAR-2006 00:49	25.0			25				
055	069_55.0	SAMPLE	185457-008	111216	Water	11-MAR-2006 01:06	25.0			25				
056	069_56.0	SAMPLE	185457-010	111216	Water	11-MAR-2006 01:24	1.0	1		25				1:CL=40.7114
057	069_57.0	X	BLK	111216		11-MAR-2006 01:41	1.0							
058	069_58.0	CCV	H	111216		11-MAR-2006 01:59	1.0	1		25			1	
059	069_59.0	CCB		111216		11-MAR-2006 02:16	1.0	1		25				
060	069_60.0	X	CCV	111216		11-MAR-2006 02:34	1.0						1	
061	069_61.0	X	CCB	111216		11-MAR-2006 02:51	1.0							
062	069_62.0	SAMPLE	185457-005	111216	Water	11-MAR-2006 03:09	1.0	2		25				2:SO4=74.3652
063	069_63.0	X	BLK	111216		11-MAR-2006 03:26	1.0							
064	069_64.0	SAMPLE	185457-005	111216	Water	11-MAR-2006 03:44	2.0	1		25				1:CL=160.300
065	069_65.0	X	BLK	111216		11-MAR-2006 04:01	1.0							
066	069_66.0	SAMPLE	185457-006	111216	Water	11-MAR-2006 04:19	1.0	2		25				2:CL=199.126
067	069_67.0	X	BLK	111216		11-MAR-2006 04:36	1.0							
068	069_68.0	SAMPLE	185457-006	111216	Water	11-MAR-2006 04:54	2.0	2		25				2:CL=174.735

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Stds used: 1=S1888

SEQUENCE SUMMARY FOR 185457 IC Water
Curtis & Tompkins Laboratories

Sequence: 606100050 Instrument: IC01 Ion Chromatograph Begun: 10-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
069	069_69.0	X	BLK	111216		11-MAR-2006 05:11	1.0						
070	069_70.0	SAMPLE	185457-012	111216	Water	11-MAR-2006 05:29	1.0	1	25			1:CL=57.0320	
071	069_71.0	X	BLK	111216		11-MAR-2006 05:46	1.0						
072	069_72.0	SAMPLE	185457-013	111216	Water	11-MAR-2006 06:04	1.0		25				
073	069_73.0	X	BLK	111216		11-MAR-2006 06:21	1.0						
074	069_74.0	SAMPLE	185457-014	111216	Water	11-MAR-2006 06:39	1.0		25				
075	069_75.0	X	BLK	111216		11-MAR-2006 06:56	1.0						
076	069_76.0	MSS	185457-016	111216	Water	11-MAR-2006 07:14	1.0	2	25			1:SO4=79.1182	
077	069_77.0	X	BLK	111216		11-MAR-2006 07:31	1.0						
078	069_78.0	MSS	185457-016	111216	Water	11-MAR-2006 07:49	2.0	2	25			1:CL=144.804	
079	069_79.0	X	BLK	111216		11-MAR-2006 08:06	1.0						
080	069_80.0	SAMPLE	185457-005	111216	Water	11-MAR-2006 08:24	100.0		25				
081	069_81.0	CCV	L	111216		11-MAR-2006 08:41	1.0	1	25			1	
082	069_82.0	CCB		111216		11-MAR-2006 08:59	1.0		25				
083	069_83.0	X	CCV	111216		11-MAR-2006 09:16	1.0					1	803
084	069_84.0	X	CCB	111216		11-MAR-2006 09:34	1.0						
085	069_85.0	SAMPLE	185457-006	111216	Water	11-MAR-2006 09:51	100.0		25				
086	069_86.0	SAMPLE	185457-010	111216	Water	11-MAR-2006 10:09	10.0		25				
087	069_87.0	SAMPLE	185457-011	111216	Water	11-MAR-2006 10:26	25.0		25				
088	069_88.0	X	BLK	111216		11-MAR-2006 10:44	1.0						
089	069_89.0	SAMPLE	185457-012	111216	Water	11-MAR-2006 11:01	25.0		25				
090	069_90.0	X	BLK	111216		11-MAR-2006 11:19	1.0						
091	069_91.0	SAMPLE	185457-013	111216	Water	11-MAR-2006 11:36	25.0		25				
092	069_92.0	SAMPLE	185457-014	111216	Water	11-MAR-2006 11:54	25.0		25				
093	069_93.0	SAMPLE	185473-038	111216	Water	11-MAR-2006 12:12	1.0		25			2:CL=114.502	
094	069_94.0	X	BLK	111216		11-MAR-2006 12:29	1.0						
095	069_95.0	SAMPLE	185473-040	111216	Water	11-MAR-2006 12:47	1.0		25			2:SO4=110.448	
096	069_96.0	X	BLK	111216		11-MAR-2006 13:04	1.0						
097	069_97.0	SAMPLE	185473-042	111216	Water	11-MAR-2006 13:22	1.0		25			2:SO4=104.584	
098	069_98.0	X	BLK	111216		11-MAR-2006 13:39	1.0						
099	069_99.0	SAMPLE	185473-044	111216	Water	11-MAR-2006 13:57	1.0		25			2:SO4=113.023	

Stds used: 1=S1888

SEQUENCE SUMMARY FOR 185457 IC Water
Curtis & Tompkins Laboratories

Sequence: 606100050 Instrument: IC01 Ion Chromatograph Begun: 10-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
100	069_100.	X	BLK	111216		11-MAR-2006 14:14	1.0						
101	069_101.	CCV	M	111216		11-MAR-2006 14:32	1.0		25			1	
102	069_102.	CCB		111216		11-MAR-2006 14:49	1.0		25				
103	069_103.	SAMPLE	185473-046	111216	Water	11-MAR-2006 15:07	1.0		25				2:CL=124.925
104	069_104.	X	BLK	111216		11-MAR-2006 15:24	1.0						
105	069_105.	SAMPLE	185473-048	111216	Water	11-MAR-2006 15:42	1.0		25				2:CL=131.037
106	069_106.	X	BLK	111216		11-MAR-2006 15:59	1.0						
107	069_107.	CCV	H	111216		11-MAR-2006 16:17	1.0		25			1	
108	069_108.	CCB		111216		11-MAR-2006 16:34	1.0	1	25				
109	069_109.	X	SHUTDOWN	111216		11-MAR-2006 16:52	1.0						

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Stds used: 1=S1888

SEQUENCE SUMMARY FOR 185457 IC Water
Curtis & Tompkins Laboratories

Sequence: 626100048 Instrument: IC03 Ion Chromatograph Begun: 10-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
007	069_7.00	CCV	L	111213		10-MAR-2006 10:39	1.0			25			1	
008	069_8.00	CCB/MB	QC331086	111213	Water	10-MAR-2006 10:56	1.0	1		25				
009	069_9.00	BS	QC331087	111213	Water	10-MAR-2006 11:12	1.0	1		25			1	
010	069_10.0	BSD	QC331088	111213	Water	10-MAR-2006 11:28	1.0	1		25			1	
011	069_11.0	MSS	185444-001	111213	Water	10-MAR-2006 12:52	100.0	2		25				
012	069_12.0	MSS	185444-001	111213	Water	10-MAR-2006 13:08	1.0	2		25				
013	069_13.0	SAMPLE	185444-002	111213	Water	10-MAR-2006 13:25	1.0	1		25				
014	069_14.0	SAMPLE	185444-003	111213	Water	10-MAR-2006 13:41	1.0	1		25				
015	069_15.0	SAMPLE	185444-004	111213	Water	10-MAR-2006 13:57	1.0	1		25				
016	069_16.0	SAMPLE	185445-001	111213	Water	10-MAR-2006 14:46	1.0	1		25				2:NO2N=20.2163
017	069_17.0	SAMPLE	185445-002	111213	Water	10-MAR-2006 15:02	2.0	1		25				1:NO2N=9.36764
018	069_18.0	CCV	M	111213		10-MAR-2006 15:19	1.0	1		25			1	
019	069_19.0	CCB		111213		10-MAR-2006 15:35	1.0			25				
020	069_20.0	SAMPLE	185445-003	111213	Water	10-MAR-2006 15:54	2.0	1		25				1:NO2N=8.57057
021	069_21.0	SAMPLE	185445-004	111213	Water	10-MAR-2006 16:10	2.0	1		25				
022	069_22.0	SAMPLE	185445-001	111213	Water	10-MAR-2006 16:27	2.0	1		25				1:NO2N=11.0198
023	069_23.0	SAMPLE	185445-004	111213	Water	10-MAR-2006 16:43	1.0	1		25				
024	069_24.0	MS	QC331089	111213	Water	10-MAR-2006 16:59	1.02	1	2	25			1	
025	069_25.0	MSD	QC331090	111213	Water	10-MAR-2006 17:16	1.02	1	4	25			1	
026	069_26.0	CCV	H	111213		10-MAR-2006 17:32	1.0	1		25			1	
027	069_27.0	CCB		111213		10-MAR-2006 17:49	1.0			25				
028	069_28.0	CCV	L	111215		10-MAR-2006 18:05	1.0	1		25			1	
029	069_29.0	CCB/MB	QC331096	111215	Water	10-MAR-2006 18:21	1.0			25				
030	069_30.0	BS	QC331097	111215	Water	10-MAR-2006 18:38	1.0			25			1	
031	069_31.0	BSD	QC331098	111215	Water	10-MAR-2006 18:54	1.0			25			1	
032	069_32.0	MSS	185457-027	111215	Water	10-MAR-2006 19:11	10.0	1		25				
033	069_33.0	SAMPLE	185457-017	111215	Water	10-MAR-2006 19:27	1.0	1		25				1:CL=83.6054
034	069_34.0	X	BLK	111215		10-MAR-2006 19:43	1.0							
035	069_35.0	SAMPLE	185457-021	111215	Water	10-MAR-2006 20:00	1.0	2		25				2:SO4=81.7843
036	069_36.0	X	BLK	111215		10-MAR-2006 20:16	1.0							
037	069_37.0	SAMPLE	185457-022	111215	Water	10-MAR-2006 20:33	1.0	3		25				3:SO4=71.5519

Stds used: 1=S1888

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SEQUENCE SUMMARY FOR 185457 IC Water
Curtis & Tompkins Laboratories

Sequence: 626100048 Instrument: IC03 Ion Chromatograph Begun: 10-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
038	069_38.0	X	BLK	111215		10-MAR-2006 20:49	1.0							
039	069_39.0	SAMPLE	185457-023	111215	Water	10-MAR-2006 21:06	1.0	1		25				1:CL=130.374
040	069_40.0	X	BLK	111215		10-MAR-2006 21:22	1.0							
041	069_41.0	MS	QC331099	111215	Water	10-MAR-2006 21:38	20.0			25			1	
042	069_42.0	MSD	QC331100	111215	Water	10-MAR-2006 21:55	20.0			25			1	
043	069_43.0	CCV	M	111215		10-MAR-2006 22:11	1.0			25			1	
044	069_44.0	CCB		111215		10-MAR-2006 22:28	1.0			25				
045	069_45.0	X	CCV	111215		10-MAR-2006 22:44	1.0						1	
046	069_46.0	X	CCB	111215		10-MAR-2006 23:00	1.0							
047	069_47.0	SAMPLE	185457-024	111215	Water	10-MAR-2006 23:17	1.0	1		25				1:CL=130.340
048	069_48.0	X	BLK	111215		10-MAR-2006 23:33	1.0							
049	069_49.0	SAMPLE	185457-025	111215	Water	10-MAR-2006 23:50	1.0			25				
050	069_50.0	X	BLK	111215		11-MAR-2006 00:06	1.0							
051	069_51.0	SAMPLE	185457-026	111215	Water	11-MAR-2006 00:22	1.0	2		25				2:SO4=63.2395
052	069_52.0	X	BLK	111215		11-MAR-2006 00:39	1.0							
053	069_53.0	MSS	185457-027	111215	Water	11-MAR-2006 00:55	1.0	2		25				2:SO4=97.0306
054	069_54.0	X	BLK	111215		11-MAR-2006 01:12	1.0							
055	069_55.0	SAMPLE	185457-017	111215	Water	11-MAR-2006 01:28	25.0			25				
056	069_56.0	SAMPLE	185457-021	111215	Water	11-MAR-2006 01:44	10.0			25				
057	069_57.0	SAMPLE	185457-022	111215	Water	11-MAR-2006 02:01	10.0			25				
058	069_58.0	SAMPLE	185457-023	111215	Water	11-MAR-2006 02:17	25.0			25				
059	069_59.0	SAMPLE	185457-024	111215	Water	11-MAR-2006 02:34	25.0			25				
060	069_60.0	SAMPLE	185457-025	111215	Water	11-MAR-2006 02:50	5.0			25				
061	069_61.0	CCV	H	111215		11-MAR-2006 03:07	1.0			25			1	
062	069_62.0	CCB		111215		11-MAR-2006 03:23	1.0			25				
063	069_63.0	X	CCV	111215		11-MAR-2006 03:39	1.0						1	
064	069_64.0	X	CCB	111215		11-MAR-2006 03:56	1.0							
065	069_65.0	SAMPLE	185457-026	111215	Water	11-MAR-2006 04:12	10.0			25				
066	069_66.0	SAMPLE	185473-014	111215	Water	11-MAR-2006 04:29	1.0			25				2:CL=162.516
067	069_67.0	X	BLK	111215		11-MAR-2006 04:45	1.0							
068	069_68.0	SAMPLE	185473-016	111215	Water	11-MAR-2006 05:01	1.0			25				2:CL=166.475

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Stds used: 1=S1888

SEQUENCE SUMMARY FOR 185457 IC Water
Curtis & Tompkins Laboratories

Sequence: 626100048 Instrument: IC03 Ion Chromatograph Begun: 10-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
069	069_69.0	X	BLK	111215		11-MAR-2006 05:18	1.0						
070	069_70.0	SAMPLE	185473-018	111215	Water	11-MAR-2006 05:34	1.0		25				2:CL=173.211
071	069_71.0	X	BLK	111215		11-MAR-2006 05:51	1.0						
072	069_72.0	SAMPLE	185473-020	111215	Water	11-MAR-2006 06:07	1.0		25				2:CL=167.395
073	069_73.0	X	BLK	111215		11-MAR-2006 06:23	1.0						
074	069_74.0	SAMPLE	185473-022	111215	Water	11-MAR-2006 06:40	1.0		25				1:SO4=102.169
075	069_75.0	X	BLK	111215		11-MAR-2006 06:56	1.0						
076	069_76.0	SAMPLE	185473-024	111215	Water	11-MAR-2006 07:13	1.0		25				2:CL=170.312
077	069_77.0	X	BLK	111215		11-MAR-2006 07:29	1.0						
078	069_78.0	SAMPLE	185473-026	111215	Water	11-MAR-2006 07:45	1.0		25				2:CL=155.356
079	069_79.0	X	BLK	111215		11-MAR-2006 08:02	1.0						
080	069_80.0	SAMPLE	185473-028	111215	Water	11-MAR-2006 08:18	1.0		25				1:SO4=108.495
081	069_81.0	X	BLK	111215		11-MAR-2006 08:35	1.0						
082	069_82.0	SAMPLE	185473-030	111215	Water	11-MAR-2006 08:51	1.0		25				2:CL=150.445
083	069_83.0	X	BLK	111215		11-MAR-2006 09:07	1.0						
084	069_84.0	CCV	L	111215		11-MAR-2006 09:24	1.0		25			1	
085	069_85.0	CCB		111215		11-MAR-2006 09:40	1.0		25				
086	069_86.0	X	CCV	111215		11-MAR-2006 09:57	1.0					1	
087	069_87.0	X	CCB	111215		11-MAR-2006 10:13	1.0						
088	069_88.0	SAMPLE	185473-032	111215	Water	11-MAR-2006 10:30	1.0		25				2:CL=176.251
089	069_89.0	X	BLK	111215		11-MAR-2006 10:46	1.0						
090	069_90.0	SAMPLE	185473-034	111215	Water	11-MAR-2006 11:02	1.0		25				2:CL=160.458
091	069_91.0	X	BLK	111215		11-MAR-2006 11:19	1.0						
092	069_92.0	SAMPLE	185473-036	111215	Water	11-MAR-2006 11:35	1.0		25				2:CL=173.272
093	069_93.0	X	BLK	111215		11-MAR-2006 11:52	1.0						
094	069_94.0	CCV	M	111215		11-MAR-2006 12:08	1.0		25			1	
095	069_95.0	CCB		111215		11-MAR-2006 12:24	1.0		25				
096	069_96.0	X	CCV	111215		11-MAR-2006 12:41	1.0					1	
097	069_97.0	X	CCB	111215		11-MAR-2006 12:57	1.0						
098	069_98.0	X	SHUTDOWN	111215		11-MAR-2006 13:14	1.0						

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Stds used: 1=S1888

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185457 IC Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	CL	NO2N	NO3N	SO4
185457-001	IC01	03/10/06 21:19	1.0	+		+	+	+
185457-001	IC01	03/11/06 00:14	25.0		+			
185457-002	IC01	03/10/06 22:29	1.0	+		+	+	+
185457-002	IC01	03/11/06 00:31	25.0		+			
185457-005	IC01	03/11/06 03:09	1.0	+			+	
185457-005	IC01	03/11/06 03:44	2.0			+		+
185457-005	IC01	03/11/06 08:24	100.0		+			
185457-006	IC01	03/11/06 04:19	1.0	+			+	
185457-006	IC01	03/11/06 04:54	2.0			+		
185457-006	IC01	03/11/06 09:51	100.0		+			+
185457-007	IC01	03/10/06 21:54	1.0	+		+	+	+
185457-007	IC01	03/11/06 00:49	25.0		+			
185457-008	IC01	03/10/06 23:04	1.0	+		+	+	+
185457-008	IC01	03/11/06 01:06	25.0		+			
185457-009	IC01	03/10/06 17:48	25.0		+			
185457-009	IC01	03/10/06 23:39	1.0	+		+	+	+
185457-010	IC01	03/11/06 01:24	1.0	+		+	+	+
185457-010	IC01	03/11/06 10:09	10.0		+			
185457-011	IC01	03/10/06 20:08	1.0	+		+	+	+
185457-011	IC01	03/11/06 10:26	25.0		+			
185457-012	IC01	03/11/06 05:29	1.0	+		+	+	+
185457-012	IC01	03/11/06 11:01	25.0		+			
185457-013	IC01	03/11/06 06:04	1.0	+		+	+	+
185457-013	IC01	03/11/06 11:36	25.0		+			
185457-014	IC01	03/11/06 06:39	1.0	+		+	+	+
185457-014	IC01	03/11/06 11:54	25.0		+			
185457-016	IC01	03/10/06 18:06	50.0		+			
185457-016	IC01	03/11/06 07:14	1.0	+			+	
185457-016	IC01	03/11/06 07:49	2.0			+		+
185457-017	IC03	03/10/06 19:27	1.0	+		+	+	+
185457-017	IC03	03/11/06 01:28	25.0		+			
185457-021	IC03	03/10/06 20:00	1.0	+		+	+	

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185457 IC Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	CL	NO2N	NO3N	SO4
185457-021	IC03	03/11/06 01:44	10.0		+			+
185457-022	IC03	03/10/06 20:33	1.0	+		+		
185457-022	IC03	03/11/06 02:01	10.0		+		+	+
185457-023	IC03	03/10/06 21:06	1.0	+		+	+	+
185457-023	IC03	03/11/06 02:17	25.0		+			
185457-024	IC03	03/10/06 23:17	1.0	+		+	+	+
185457-024	IC03	03/11/06 02:34	25.0		+			
185457-025	IC03	03/10/06 23:50	1.0	+	+	+	+	+
185457-025	IC03	03/11/06 02:50	5.0					
185457-026	IC03	03/11/06 00:22	1.0	+		+	+	
185457-026	IC03	03/11/06 04:12	10.0		+			+
185457-027	IC03	03/10/06 19:11	10.0		+			+
185457-027	IC03	03/11/06 00:55	1.0	+		+	+	
QC331096	IC03	03/10/06 18:21	1.0	+	+	+	+	+
QC331097	IC03	03/10/06 18:38	1.0	+	+	+	+	+
QC331098	IC03	03/10/06 18:54	1.0	+	+	+	+	+
QC331099	IC03	03/10/06 21:38	20.0	+	+	+	+	+
QC331100	IC03	03/10/06 21:55	20.0	+	+	+	+	+
QC331101	IC01	03/10/06 17:31	1.0	+	+	+	+	+
QC331102	IC01	03/10/06 19:33	1.0	+	+	+	+	+
QC331103	IC01	03/10/06 19:51	1.0	+	+	+	+	+
QC331104	IC01	03/10/06 18:23	25.0	+	+	+	+	+
QC331105	IC01	03/10/06 18:41	25.0	+	+	+	+	+
QC331106	IC01	03/10/06 18:58	100.0	+	+	+	+	+
QC331107	IC01	03/10/06 19:16	100.0	+	+	+	+	+

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111215
Date Started: 10-MAR-2006
Batched by : Micah Smith

Analysis : N/A
Bgroup : IC
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185457-017			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	22-MAR-2006
185457-021			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	22-MAR-2006
185457-022			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	22-MAR-2006
185457-023			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	22-MAR-2006
185457-024			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	22-MAR-2006
185457-025			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	22-MAR-2006
185457-026			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	22-MAR-2006
185457-027			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	22-MAR-2006
185473-014			Union Sanitary Dis	Water	NITRATE, NITRITE	22-MAR-2006
185473-016			Union Sanitary Dis	Water	NITRATE, NITRITE	22-MAR-2006
185473-018			Union Sanitary Dis	Water	NITRATE, NITRITE	22-MAR-2006
185473-020			Union Sanitary Dis	Water	NITRATE, NITRITE	22-MAR-2006
185473-022			Union Sanitary Dis	Water	NITRATE, NITRITE	22-MAR-2006
185473-024			Union Sanitary Dis	Water	NITRATE, NITRITE	22-MAR-2006
185473-026			Union Sanitary Dis	Water	NITRATE, NITRITE	22-MAR-2006
185473-028			Union Sanitary Dis	Water	NITRATE, NITRITE	22-MAR-2006
185473-030			Union Sanitary Dis	Water	NITRATE, NITRITE	22-MAR-2006
185473-032			Union Sanitary Dis	Water	NITRATE, NITRITE	22-MAR-2006
185473-034			Union Sanitary Dis	Water	NITRATE, NITRITE	22-MAR-2006
185473-036			Union Sanitary Dis	Water	NITRATE, NITRITE	22-MAR-2006
QC331096	BLANK			Water		
QC331097	BS			Water		
QC331098	BSD			Water		
QC331099	MS	of 185457-027		Water		
QC331100	MSD	of 185457-027		Water		

Curtis & Tompkins, Ltd.

Water Prep Log

Ion Chromatography

Analysis: ☒ Anions EPA 300 / EPA 9056
☐ Perchlorate (ClO_4) EPA 314
☐ Cr6+ EPA 7199

Batch#: 111215
Date Started: 3/10/06
Prep Chemist: MRS

BK 2267
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	Sample #	Conductivity	Estimated Dilution Factor	Filters Used	Comments
1	185457-017 K	1.78	1X / 25X	S	
2	-021 F	0.86	1X / 10X		
3	-022 F	0.79	1X / 10X		
4	-023 I	1.31	1X / 25X		
5	-024 I	1.34	1X / 25X		
6	-025 F	0.40	1X / 5X		
7	-026 F	0.74	1X / 10X		
8	-027 P	0.91	1X / 10X		MSS
9	185473 -014 B	1.71	1X	S	
10	-016	1.71			
11	-018	1.75			
12	-020	1.72			
13	-022	1.78			
14	-024	1.75			
15	-026	1.58			
16	-028	1.76			
17	-030	1.55			
18	-032	1.77			
19	-034	1.62			
20	-036	1.73			
	Blank QC331096	N/A	1X	N/A	
	BS QC331097				
	BSD QC331098				
	MS QC331099 P		20X	S	
	MSD QC331100 P		20X	S	

	Mfg & Lot # / Time / Program	Initials / Date
Eluent Reagent ID	100X CP 12/6/05	MRS 3/10/06
BS/BSD Spiked with 0.2 mL of :	S1888	
MS/MSD Spiked with 0.1 mL of :	S1888	
Filters Used: Ag: OnGuard II Ag	N/A	
Na: OnGuard II Na		
P: OnGuard II P		
RP: OnGuard II RP		
S: 0.20um/0.45um	Acrodisc lot #A1053946	

MRS 3/10/06
Extraction Chemist / Date

Continued from page ____
Continued on page ____

CP 3/13/06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111216
Date Started: 10-MAR-2006
Batched by : Micah Smith

Analysis : N/A
Bgroup : IC
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185457-001			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	22-MAR-2006
185457-002			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	22-MAR-2006
185457-005			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	22-MAR-2006
185457-006			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	22-MAR-2006
185457-007			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	22-MAR-2006
185457-008			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	22-MAR-2006
185457-009			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	22-MAR-2006
185457-010			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	22-MAR-2006
185457-011			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	22-MAR-2006
185457-012			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	22-MAR-2006
185457-013			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	22-MAR-2006
185457-014			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	22-MAR-2006
185457-016			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	22-MAR-2006
185473-038			Union Sanitary Dis	Water	NITRATE, NITRITE	22-MAR-2006
185473-040			Union Sanitary Dis	Water	NITRATE, NITRITE	22-MAR-2006
185473-042			Union Sanitary Dis	Water	NITRATE, NITRITE	22-MAR-2006
185473-044			Union Sanitary Dis	Water	NITRATE, NITRITE	22-MAR-2006
185473-046			Union Sanitary Dis	Water	NITRATE, NITRITE	22-MAR-2006
185473-048			Union Sanitary Dis	Water	NITRATE, NITRITE	22-MAR-2006
QC331101	BLANK			Water		
QC331102	BS			Water		
QC331103	BSD			Water		
QC331104	MS	of 185457-009		Water		
QC331105	MSD	of 185457-009		Water		
QC331106	MS	of 185457-016		Water		
QC331107	MSD	of 185457-016		Water		

Curtis & Tompkins, Ltd.

Water Prep Log

Ion Chromatography

Analysis: ☑ Anions EPA 300 / EPA 9056
☐ Perchlorate (ClO_4) EPA 314
☐ Cr6+ EPA 7199

Batch#: 111216
Date Started: 3/10/06
Prep Chemist: MRS

BK 2267
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	Sample #	Conductivity	Estimated Dilution Factor	Filters Used	Comments
1	185457-001 H	1.24	1x/25x	S	
2	-002	1.20	1x/25x		
3	-005	3.54	1x/2x/100x		
4	-006	3.76	1x/2x/100x		
5	-007	1.48	1x/25x		
6	-008	1.68	1x/25x		
7	-009 AE	1.21	1x/25x		MSS
8	-010 K	0.98	1x/10x		
9	-011	1.41	1x/25x		
10	-012	1.41	1x/25x		
11	-013	1.58	1x/25x		
12	-014 H	1.32	1x/25x		
13	-016 V	3.19	1x/2x/50x		MSS
14	185473-038 B	1.65	1x		
15	185473-040 ~~-03~~ MRS 3/10/06 B	1.68			
16	185473-042 B	1.65			
17	-044 B	1.70			
18	-046 B	1.63			
19	-048 B	1.71			
20	Blank QC331101	N/A		N/A	
	BS QC331102				
	BSD QC331103				
	MS QC331104 AE		25x	S	of 185457-009AE
	MSD QC331105 AE		25x		of 185457-009AE
	MS QC331106 V		100x		of 185457-016V
	MSD QC331107 V		100x		of 185457-016V

	Mfg & Lot # / Time / Program	Initials / Date
Eluent Reagent ID	100x CP 12/6/05	MRS 3/10/06
BS/BSD Spiked with 0.2 mL of :	51888	
MS/MSD Spiked with 0.1 mL of :	51888	
Filters Used: Ag: OnGuard II Ag	N/A	
Na: OnGuard II Na		
P: OnGuard II P		
RP: OnGuard II RP		
S: 0.20um/0.45um	Accodisc lot #A1053946	

MRS 3/10/06
Extraction Chemist / Date

Continued from page ____
Continued on page ____

CP 3/13/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 300.0 Water
As of 04/08/06

Analyte	Units	IC03	IC01
Fluoride	mg/L	0.023	0.018
Chloride	mg/L	0.032	0.026
Nitrogen, Nitrite	mg/L	0.012	0.0067
Bromide	mg/L	0.028	0.058
Nitrogen, Nitrate	mg/L	0.0088	0.018
Orthophosphate (as P)	mg/L	0.037	0.045
Sulfate	mg/L	0.079	0.046

Curtis & Tompkins, Ltd.

Sulfide

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 376.2
Analyte:	Sulfide	Batch#:	111347
Matrix:	Water	Received:	03/10/06
Units:	mg/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL	Sampled
231GW10	SAMPLE	185457-009	ND	0.04	03/09/06
231GW30	SAMPLE	185457-010	ND	0.04	03/09/06
231GW22	SAMPLE	185457-011	ND	0.04	03/09/06
DUP0309061A	SAMPLE	185457-012	ND	0.04	03/09/06
231GW16	SAMPLE	185457-013	0.07	0.04	03/09/06
1065PZ4A	SAMPLE	185457-014	ND	0.04	03/09/06
231PZ02	SAMPLE	185457-017	0.07	0.04	03/10/06
1065PZ3B	SAMPLE	185457-021	ND	0.04	03/09/06
1065MW9B	SAMPLE	185457-022	ND	0.04	03/09/06
1065MW9A	SAMPLE	185457-023	0.07	0.04	03/09/06
DUP0309062B	SAMPLE	185457-024	ND	0.04	03/09/06
1065MW11A	SAMPLE	185457-025	ND	0.04	03/09/06
1065MW10B	SAMPLE	185457-026	ND	0.04	03/09/06
1065PZ6B	SAMPLE	185457-027	ND	0.04	03/10/06
	BLANK	QC331667	ND	0.04	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Sulfide

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 376.2
Analyte:	Sulfide	Batch#:	111347
Matrix:	Water	Received:	03/10/06
Units:	mg/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Sampled
	LCS		QC331668		0.6270	0.5905	94	75-125			
231GW10	MS	185457-009	QC331669	<0.04000	0.6270	0.4629	74 *	75-125			03/09/06
231GW10	MSD	185457-009	QC331670		0.6270	0.4712	75	75-125	2	20	03/09/06
1065PZ6B	MS	185457-027	QC331671	<0.04000	0.6270	0.5006	80	75-125			03/10/06
1065PZ6B	MSD	185457-027	QC331672		0.6270	0.4599	73 *	75-125	8	20	03/10/06

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Analysis:	**SULFIDE**	Matrix:	Water
Method:	**EPA 376.2**	Batch:	**111347**
Instrument:	HP UV-VIS Spectrometer	Prep Date:	**3/15/2006**
Wavelength:	626 nm	Analysis Date:	**3/15/2006**
SOP#:	sulfide_376_rv 4.doc	Analyst:	SY

INITIAL CALIBRATION DATA

Calibration Date: 11/15/05

Conc (mg/L)	Absorb	RF
0.0000	0.0001	
0.0233	0.0090	0.3863
0.0466	0.0156	0.3348
0.1862	0.0555	0.2981
0.3725	0.1650	0.4430
0.7450	0.3293	0.4420
1.3040	0.5687	0.4361
1.6760	0.7467	0.4455

Correlation Coefficient (r):	0.9994
Avg Rf:	0.3980
%RSD:	15.1

Note: Average Rf used to calculate sample results.

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CONTINUING CALIBRATION DATA

	Absorb	Conc (mg/L)	True (mg/L)	Recovery	CV Limits
ICV	0.2350	0.5905	0.6270	94%	90 - 110%
ICB	-0.0005	-0.0013	0.0000		
CCV	0.2349	0.5903	0.6270	94%	90 - 110%
CCB	0.0031	0.0078	0.0000		
CCV	0.2325	0.5842	0.6270	93%	90 - 110%
CCB	0.0006	0.0015	0.0000		
CCV	0.2350	0.5905	0.6270	94%	90 - 110%
CCB	0.0008	0.0020	0.0000		

Analysis:	**SULFIDE**	Batch:	**111347**
Method:	**EPA 376.2**	Prep Date:	**3/15/2006**
Instrument:	HP UV-VIS Spectrometer	Analysis Date:	**3/15/2006**
Wavelength:	626 nm	Analyst:	SY
Matrix:	Water		

SAMPLE & BATCH QC DATA

Sample ID	Sample Vol (mL)	D.F.	Sample Absorb	Color Blk Absorb	**Report** mg/L	Reporting Limit (mg/L)	Vol Spike Added (mL)	Std Conc. (mg/L)	Spiked @ (mg/L)	**% Rec**	**% RPD**
MB	7.5000	1.0000	-0.0005		**ND**	0.040					
LCS	7.5000	1.0000	0.2350		**0.59051**	0.040	0.0500	94.0450	0.6270	**94**	
185457-9	7.5000	1.0000	0.0037		**ND**	0.040					818
185457-9MS	7.5000	1.0000	0.1842		**0.46286**	0.040	0.0500	94.0450	0.6270	**74**	
185457-9MSD	7.5000	1.0000	0.1875		**0.47115**	0.040	0.0500	94.0450	0.6270	**75**	**2**
185457-27	7.5000	1.0000	-0.0028		**ND**	0.040					
185457-27-MS	7.5000	1.0000	0.1992		**0.50056**	0.040	0.0500	94.0450	0.6270	**80**	
185457-27-MSD	7.5000	1.0000	0.1830		**0.45985**	0.040	0.0500	94.0450	0.6270	**73**	**8**
185457-10	7.5000	1.0000	0.0151		**ND**	0.040					
185457-11	7.5000	1.0000	0.0056		**ND**	0.040					
185457-12	7.5000	1.0000	0.0114		**ND**	0.040					
185457-13	7.5000	1.0000	0.0294		**0.07388**	0.040					
185457-14	7.5000	1.0000	0.0159		**ND**	0.040					
185457-17	7.5000	1.0000	0.0288		**0.07237**	0.040					
185457-21	7.5000	1.0000	0.0114		**ND**	0.040					
185457-22	7.5000	1.0000	0.0075		**ND**	0.040					
185457-23	7.5000	1.0000	0.0293		**0.07363**	0.040					

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	20	42 - 121

185457-24	7.5000	1.0000	0.0253	0.0161	**ND**	0.040
185457-25	7.5000	1.0000	0.2347	0.3552	**ND**	0.040
185457-26	7.5000	1.0000	0.0431	0.0778	**ND**	0.040

Reviewed by/ Date: 3-22-06

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---> Quantitation Results Report <---

Date : 03-12-2006
Time : 12:36:43
Operator : Not Entered

e Name : Data not stored yet

ple Name : sulfide
vent Name : CAL11-15-05
Units : mg/L
Factor : 1.00

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

PLE #	Sample Name	Wavelength	Func. Res.	Concentration
	icb/mb	Analytical	-0.0005	0.00000
2	icw/LCS	Analytical	+0.2350	0.53235
3	185457-9	Analytical	+0.0037	0.00833
	85457-9ms	Analytical	+0.1842	0.41733
5	185457-9msd	Analytical	+0.1875	0.42483
	18547-10	Analytical	+0.0151	0.03416
	185457-17	Analytical	+0.0288	0.06534
	185457-21	Analytical	+0.0114	0.02576
	85457-22	Analytical	+0.0075	0.01691
	185457-11	Analytical	+0.0056	0.01269
	ccv	Analytical	+0.2349	0.53228
	ccb	Analytical	+0.0031	0.00712
	185457-12	Analytical	+0.0114	0.02583
	185457-13	Analytical	+0.0294	0.06669
	185457-14	Analytical	+0.0159	0.03592
	185457-23	Analytical	+0.0293	0.06645
	185457-24	Analytical	+0.0253	0.05732
	185457-24cb	Analytical	+0.0161	0.03640

185457-26	Analytical	+0.0431	0.09760
185457-26cb	Analytical	+0.0778	0.17618
ccv	Analytical	+0.2325	0.52678
ccb	Analytical	+0.0006	0.00135
185457-27	Analytical	-0.0028	0.00000
85457-27ms	Analytical	+0.1992	0.45131
185457-27msd	Analytical	+0.1830	0.41460
185457-25	Analytical	+0.2347	0.53169
185457-25cb	Analytical	+0.3552	0.80489
ccv	Analytical	+0.2350	0.53249
ccb	Analytical	+0.0008	0.00190

---> Standard Calibration Report <---

Date : 03-12-2006
Time : 14:05:43
Operator : Not Entered

Name : C:\UV\DATA\ss1105.STD

e Name : sulfide
nt Name : CAL11-15-05
Units : mg/L

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

tical Function Concentration = +2.266E+00 * Absorbance

STD #	Concentration	Absorbance	% Error
1	0.00000	0.0001	*****
2	0.37250	0.1650	-0.366 %
3	0.74500	0.3293	-0.135 %
4	1.30400	0.5687	+1.198 %
5	1.67600	0.7467	-0.933 %
6	0.02330	0.0090	+14.422 %
7	0.04660	0.0156	+31.758 %
8	0.18620	0.0555	+48.042 %

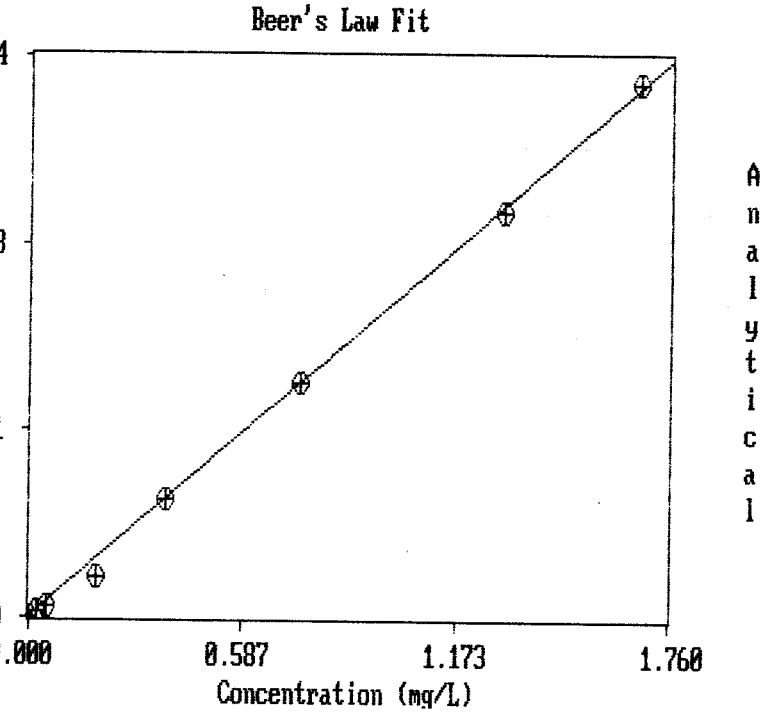
---) Standard Calibration Report (---

Date : 03-12-2006
Time : 14:06:16
Operator : Not Entered

e : C:\UV\DATA\ss1105.STD

ame : sulfide
Name : CAL11-15-05
bs : mg/L

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds



Batch # 111347 3-15-06

S^- Std: 1 ml S^- std, 4.1 ml $S_2O_3^-$ (0.02194 N), 10 ml I (0.02369 N) = 2351.136 mg/L

(10 × 0.02369) − (4.1 × 0.02194) × 16000 ÷ 1 = 2351.136 ÷ 25 ml
1:25 dilⁿ = 94.0454 mg/L

7.5 ml ICV/LCS, MS, MSD spiked with 0.05 ml @ 0.62696 mg/L

Sample ID	Initial vol	Final vol	Abs / CP
185457-9	7.5	7.5	0.0037
-10			0.1842 SY 0.0151
-11			0.0056 0.1875 ~~0.0288~~ SY
-12			0.0114 0.0151
-13			0.0294 0.0288
-14			0.0159 0.0114
-17			0.0288
-21			0.0114
-22			0.0075
-23			0.0293
-24			0.0253 / 0.0161
-25			0.2347 / 0.3552
-26			0.0431 / 0.0778
-27			-0.0028
icb / MB			-0.0005
icv / LCS			0.2350
ccv			0.2349
ccb			0.0031
ccv			0.2325
ccb			0.0006
ccv			0.2350
ccb			0.0008
185457-9 MS			0.1842
-9 MSD			0.1875
18457-27-MS			0.1942
-27-MSD			0.1830

Continued on Page

Read and Understood By

Signed TY Date 3.22.06 Signed Date 3-22-06

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111347
Date Started: 15-MAR-2006
Batched by : Sunitha Yerragodula

Analysis : SULFIDE
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185457-009			Treadwell & Rollo	Water	SULFIDE	22-MAR-2006
185457-010			Treadwell & Rollo	Water	SULFIDE	22-MAR-2006
185457-011			Treadwell & Rollo	Water	SULFIDE	22-MAR-2006
185457-012			Treadwell & Rollo	Water	SULFIDE	22-MAR-2006
185457-013			Treadwell & Rollo	Water	SULFIDE	22-MAR-2006
185457-014			Treadwell & Rollo	Water	SULFIDE	22-MAR-2006
185457-017			Treadwell & Rollo	Water	SULFIDE	22-MAR-2006
185457-021			Treadwell & Rollo	Water	SULFIDE	22-MAR-2006
185457-022			Treadwell & Rollo	Water	SULFIDE	22-MAR-2006
185457-023			Treadwell & Rollo	Water	SULFIDE	22-MAR-2006
185457-024			Treadwell & Rollo	Water	SULFIDE	22-MAR-2006
185457-025			Treadwell & Rollo	Water	SULFIDE	22-MAR-2006
185457-026			Treadwell & Rollo	Water	SULFIDE	22-MAR-2006
185457-027			Treadwell & Rollo	Water	SULFIDE	22-MAR-2006
QC331667	BLANK			Water	SULFIDE	
QC331668	LCS			Water	SULFIDE	
QC331669	MS	of 185457-009		Water	SULFIDE	
QC331670	MSD	of 185457-009		Water	SULFIDE	
QC331671	MS	of 185457-027		Water	SULFIDE	
QC331672	MSD	of 185457-027		Water	SULFIDE	

Analysis:	Sulfide	Analysis Date:	4/14/2005
Method:	EPA 376.2	Analyst:	DM
Instrument:	HP UV/Vis		
Wavelength:	626 nm		

Instrument Calibrated to report sample results in concentration: mg/L

Concentration:	0.1098
Units:	mg/L
1	0.100
2	0.104
3	0.105
4	0.096
5	0.096
6	0.095
7	0.092
Average:	0.098 ug/L
Std Deviation:	0.004691
Student T:	3.143

(Student-T value for 7 replicates = 3.143, for 8 replicates = 2.998)

MDL = Student T * StdDev:	**0.0147** mg/L
Reporting Limit:	0.04 mg/L
Status:	PASS >1/3 RL

Curtis & Tompkins, Ltd.

Total Dissolved Solids (TDS)

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Received:	03/10/06
Matrix:	Water	Analyzed:	03/15/06
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Diln Fac	Batch#	Sampled
LF5GW103	SAMPLE	185457-001	700	10	1.000	111354	03/09/06
LF5GW102	SAMPLE	185457-002	850	50	5.000	111394	03/09/06
1349MW104	SAMPLE	185457-005	2,090	50	5.000	111394	03/09/06
1349MW103	SAMPLE	185457-006	2,220	50	5.000	111394	03/09/06
LF5GW101	SAMPLE	185457-007	1,090	50	5.000	111394	03/09/06
LF5GW100	SAMPLE	185457-008	1,040	50	5.000	111394	03/09/06
231GW10	SAMPLE	185457-009	750	50	5.000	111394	03/09/06
231GW30	SAMPLE	185457-010	720	50	5.000	111394	03/09/06
231GW22	SAMPLE	185457-011	1,030	50	5.000	111394	03/09/06
DUP0309061A	SAMPLE	185457-012	1,170	50	5.000	111394	03/09/06
231GW16	SAMPLE	185457-013	980	50	5.000	111394	03/09/06
1065PZ4A	SAMPLE	185457-014	780	50	5.000	111394	03/09/06
1349MW02	SAMPLE	185457-016	2,060	50	5.000	111394	03/10/06
231PZ02	SAMPLE	185457-017	960	50	5.000	111394	03/10/06
1065PZ3B	SAMPLE	185457-021	1,930	50	5.000	111394	03/09/06
1065MW9B	SAMPLE	185457-022	570	50	5.000	111394	03/09/06
1065MW9A	SAMPLE	185457-023	870	50	5.000	111394	03/09/06
DUP0309062B	SAMPLE	185457-024	790	50	5.000	111394	03/09/06
1065MW11A	SAMPLE	185457-025	860	50	5.000	111394	03/09/06
1065MW10B	SAMPLE	185457-026	510	50	5.000	111394	03/09/06
1065PZ6B	SAMPLE	185457-027	660	50	5.000	111394	03/10/06
	BLANK	QC331712	ND	10	1.000	111354	
	BLANK	QC331865	ND	10	1.000	111394	

ND= Not Detected
RL= Reporting Limit

Batch QC Report

Total Dissolved Solids (TDS)

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Units:	mg/L
Matrix:	Water	Analyzed:	03/15/06

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Sampled	Received
	BS		QC331713		100.0	90.00		90	79-121			1.000	111354		
	BSD		QC331714		100.0	104.0		104	79-121	14	20	1.000	111354		
ZZZZZZZZZZ	SDUP	185373-001	QC331715	7,800		9,133	166.7			16	20	16.67	111354	03/08/06	03/08/06
600GW101	SDUP	185408-002	QC331716	798.0		776.0	10.00			3	20	1.000	111354	03/08/06	03/09/06
DAESP03	SDUP	185408-008	QC331717	404.0		360.0	10.00			12	20	1.000	111354	03/08/06	03/09/06
BB3SW104	SDUP	185408-010	QC331718	400.0		396.0	10.00			1	20	1.000	111354	03/08/06	03/09/06
	BS		QC331866		100.0	112.0		112	79-121			1.000	111394		
	BSD		QC331867		100.0	102.0		102	79-121	9	20	1.000	111394		
231GW10	SDUP	185457-009	QC331868	750.0		710.0	50.00			5	20	50.00	111394	03/09/06	03/10/06
1349MW02	SDUP	185457-016	QC331869	2,060		1,990	50.00			3	20	50.00	111394	03/10/06	03/10/06
1065PZ6B	SDUP	185457-027	QC331870	660.0		700.0	50.00			6	20	50.00	111394	03/10/06	03/10/06

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RL= Reporting Limit
RPD= Relative Percent Difference

100.1

Curtis & Tompkins, Ltd.

Analysis:	**Total Dissolved Solids**	Analysis Date:	**16-Mar-06**
Method:	**EPA160.1** / SMWW 2540c	Batch #:	**111394**
Matrix:	Water	Analyst:	RS
SOP#:	tds_rv 9.doc		

BATCH QC DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)	Spike Std Conc (mg/L)	Spike Vol.Used (mL)	Spiking Level (mg/L)	**Recovery,%**	**RPD,%**
MB	50	1	47.6612	47.6610	-0.0002	ND	10					
BS	50	1	48.3804	48.3860	0.0056	112.0	10	1,000	5	100	**112**	
BSD	50	1	49.1424	49.1475	0.0051	102.0	10	1,000	5	100	**102**	**9.35**
185457-009	10	5	29.3844	29.3919	0.0075	750.0	50					
SDUP	10	5	29.2997	29.3068	0.0071	710.0	50					**5.48**
185457-016	10	5	25.0530	25.0736	0.0206	2,060.0	50					
SDUP	10	5	29.0443	29.0642	0.0199	1,990.0	50					**3.46**
185457-027	10	5	28.5337	28.5403	0.0066	660.0	50					
SDUP	10	5	25.5083	25.5153	0.0070	700.0	50					**5.88**

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	79 - 121
MS/ MSD	20	69 - 131

SAMPLE DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)
185457-002	10	5	24.1464	24.1549	0.0085	850.0	50
185457-005	10	5	27.4044	27.4253	0.0209	2,090.0	50
185457-006	10	5	27.4141	27.4363	0.0222	2,220.0	50
185457-007	10	5	25.3602	25.3711	0.0109	1,090.0	50
185457-008	10	5	29.4342	29.4446	0.0104	1,040.0	50
185457-010	10	5	25.0220	25.0292	0.0072	720.0	50
185457-011	10	5	25.6373	25.6476	0.0103	1,030.0	50
185457-012	10	5	27.1744	27.1861	0.0117	1,170.0	50
185457-013	10	5	25.4801	25.4899	0.0098	980.0	50
185457-014	10	5	25.9065	25.9143	0.0078	780.0	50
185457-017	10	5	25.4612	25.4708	0.0096	960.0	50
185457-021	10	5	27.1667	27.1860	0.0193	1,930.0	50
185457-022	10	5	25.2083	25.2140	0.0057	570.0	50
185457-023	10	5	25.7141	25.7228	0.0087	870.0	50
185457-024	10	5	25.4359	25.4438	0.0079	790.0	50
185457-025	10	5	24.7195	24.7281	0.0086	860.0	50
185457-026	10	5	24.3484	24.3535	0.0051	510.0	50

Note: Because the regulatory holding time is based on the prep date, the analysis date referenced above is the prep date.

Reviewed by/ Date: DM 3-22-06

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TDS (Total Dissolved Solids)
EPA 160.1 / SMWW 2540C

Curtis & Tompkins, Ltd.

LIMS Batch #: 111394

Prep Date: 3-16-06
Prep Time: 16:00

Benchbook#: **BK2145**
Page: **83**

Filter Mfg/ Lot#: F1672870
Spike WS#: S2182

Spike WS Conc (mg/L): 1,000
Spike Vol Added (mL): 5

	In	Out	In-2	Out-2	In-3	Out-3
Date:	3-16-06	3-17-06	3-17-06	3-17-06	3-17-06	3-17-06
Time:	18:25	11:00	14:00	15:00	17:00	18:00
Temp (C):	90°C	180°C	180°C	180°C	180°C	180°C

Sample # / Letter	EC Value (µS/cm)	Sample Vol. Filtered (mL)	Dish ID	Dish Wt (g)	1st Dry Wt.(g)	2nd Dry Wt (g)*	3rd Dry Wt (g)*
MB		50	XX	47.6612	47.6610	47.6609	
BS			YM	48.3804	48.3860	48.3862	
BSD			LX	49.1424	49.1475	49.1476	
185457-002H	1,199	10	ΔΔ	24.1464	24.1549	24.1553	
-005	3,380		XX	27.4044	27.4253	27.4251	
-006	3,730		17	27.4141	27.4363	27.4360	
-007	1,465		RR	25.3602	25.3711	25.3712	
-008	1,667		**	29.4342	29.4446	29.4448	
-009 AG	1,216		*M	29.3844	29.3919	29.3923	
5dup -009			MM	29.2997	29.3068	29.3069	3/17/06
-010 K	1,000		LM	25.0220	25.0292	25.0291	RS
-011	1,402		XX	25.6373	25.6476	25.6478	
-012	1,370		LM	27.1044	27.1861	27.1861	
-013	1,569		18	25.4801	25.4899	25.4896	
-014	1,211		LK	25.9065	25.9143	25.9144	
-016w	3,250		3	25.0530	25.0736	25.0739	
-016 sdup			LCS	29.0443	29.0642	29.0645	
-017 K	1,777		JT	25.4612	25.4708	25.4711	
-021 F	865		KK	27.1667	27.1861 1729 RS 3/17/06	27.1860	27.1864
-022	788		LMS	25.2083	25.2140	25.2141	
-023	391		⊙	25.7141	25.7228	25.7229	
-024	753		MK	25.4359	25.4438	25.4438	3/17/06
-025	890		FKK	24.7195	24.7281	24.7278	RS
-026	755		LKF	24.3484	24.3535	24.3536	
-027p	4,000		RS	28.5337	28.5403	28.5400	
-027p sdup	4000	10	ΔΔ	25.5083	25.5153	25.5152	

* Constant weight must be within 0.0005 from previous reading.

RSchiffa 3-16-06
Analyst / Date

3-20-06
Reviewed by / Date

Analysis: **Total Dissolved Solids**
Method: **EPA160.1** / SMWW 2540c
Matrix: Water
SOP#: tds_rv 9.doc

Analysis Date: **15-Mar-06**
Batch #: **111354**
Analyst: JKS

BATCH QC DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)	Spike Std Conc (mg/L)	Spike Vol.Used (mL)	Spiking Level (mg/L)	**Recovery,%**	**RPD,%**
MB	50	1	53.0682	53.0685	0.0003	ND	10					
BS	50	1	55.6991	55.7036	0.0045	90.0	10	1,000	5	100	**90**	
BSD	50	1	50.4022	50.4074	0.0052	104.0	10	1,000	5	100	**104**	**14.43**
185373-1	3	16.67	24.8887	24.9121	0.0234	7,800.0	167					
SDUP	3	16.67	26.2259	26.2533	0.0274	9,133.3	167					**15.75**
185408-2	50	1	48.6896	48.7295	0.0399	798.0	10					
SDUP	50	1	44.1328	44.1716	0.0388	776.0	10					**2.80**
185408-8	50	1	44.2395	44.2597	0.0202	404.0	10					
SDUP	50	1	49.1187	49.1367	0.0180	360.0	10					**11.52**
185408-10	50	1	47.0435	47.0635	0.0200	400.0	10					
SDUP	50	1	46.9518	46.9716	0.0198	396.0	10					**1.01**

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	79 - 121
MS/ MSD	20	69 - 131

SAMPLE DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)
185408-1	50	1	47.5103	47.5358	0.0255	510.0	10
185408-3	50	1	45.1159	45.1434	0.0275	550.0	10
185408-4	50	1	48.4244	48.4536	0.0292	584.0	10
185408-5	50	1	46.8879	46.9164	0.0285	570.0	10
185408-6	50	1	41.6626	41.6888	0.0262	524.0	10
185408-7	50	1	44.6076	44.6316	0.0240	480.0	10
185408-9	50	1	52.7107	52.7280	0.0173	346.0	10
185408-11	50	1	49.4103	49.4291	0.0188	376.0	10
185457-1	50	1	51.4891	51.5242	0.0351	702.0	10
185463-1	50	1	49.0329	49.0468	0.0139	278.0	10

Note: Because the regulatory holding time is based on the prep date, the analysis date referenced above is the prep date.

Reviewed by/ Date: Dm 3-22-06

EPA 160.1 / SMWW 2540C

Curtis & Tompkins, Ltd.

LIMS Batch #: 111354

Prep Date: 3-15-6
Prep Time: 16:00

Benchbook#: **BK2145**
Page: **82**

Filter Mfg/ Lot#: Fi672870
Spike WS#: S2182

Spike WS Conc (mg/L): 1000
Spike Vol Added (mL): 5

	In	Out	In-2	Out-2	In-3	Out-3
Date:	3-15-6	3-16-6	3-16-6	3-16-6		
Time:	19:00	10:00	15:00	17:00		
Temp (C):	90	180°C	180°C	180°C		

	Sample # / Letter	EC Value (µS/cm)	Sample Vol. Filtered (mL)	Dish ID	Dish Wt (g)	1st Dry Wt.(g)	2nd Dry Wt (g)*	3rd Dry Wt (g)*
1	MB		50	TT	53.0682	53.0685	53.0683	
	BS		↓	EA	55.6991	55.7036	55.7040	
	BSD		↓	MM	50.4022	50.4074	50.4078	
	185373-1J	11,640	3	∴	24.8887	24.9121	24.9122	
5	-1J SDUP	—	3	LK	26.2259	26.2533	26.2533	
	185408-1L	928	50	8	47.5103	47.5358	47.5357	
	-2Z	1383	↓	H	48.6896	48.7295	48.7298	
	-2Z SDUP	(S) 356 ~~1095~~ —	↓	R	44.1328	44.1716	44.1719	
	-3L	(S) 356 ~~962~~ 1098	↓	K	45.1159	45.1434	45.1430	
10	-4L	962	↓	AE	48.4244	48.4536	48.4536	
	-5L	978	↓	LMM	46.8879	46.9164	46.9165	
	-6B	888	↓	HT	41.6626	41.6888	41.6886	
	-7B	879	↓	Z	44.6076	44.6316	44.6312	
	-8Z	319	↓	KED	44.2395	44.2597	44.2596	
15	-8Z SDUP	—	↓	AVI	49.1187	49.1367	49.1366	
	-9J	317	↓	3	52.7107	52.7280	52.7281	
	-10Q	594	↓	1	47.0435	47.0635	47.0639	
	-10Q SDUP	—	↓	Δ	46.9518	46.9716	46.9717	
	-11F	618	↓	ETH	49.4103	49.4291	49.4293	
20	185457-1H	1187	↓	31	51.4891	51.5242	51.5244	
	185463-1H	260	↓	2	49.0329	49.0468	49.0469	

* Constant weight must be within 0.0005 from previous reading.

3-15-6
Analyst / Date

RSCUFFA 3/20/2006
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111394
Date Started: 16-MAR-2006
Batched by : Radia Shiffa

Analysis : TDS
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185457-002			Treadwell & Rollo	Water	TDS	22-MAR-2006
185457-005			Treadwell & Rollo	Water	TDS	22-MAR-2006
185457-006			Treadwell & Rollo	Water	TDS	22-MAR-2006
185457-007			Treadwell & Rollo	Water	TDS	22-MAR-2006
185457-008			Treadwell & Rollo	Water	TDS	22-MAR-2006
185457-009			Treadwell & Rollo	Water	TDS	22-MAR-2006
185457-010			Treadwell & Rollo	Water	TDS	22-MAR-2006
185457-011			Treadwell & Rollo	Water	TDS	22-MAR-2006
185457-012			Treadwell & Rollo	Water	TDS	22-MAR-2006
185457-013			Treadwell & Rollo	Water	TDS	22-MAR-2006
185457-014			Treadwell & Rollo	Water	TDS	22-MAR-2006
185457-016			Treadwell & Rollo	Water	TDS	22-MAR-2006
185457-017			Treadwell & Rollo	Water	TDS	22-MAR-2006
185457-021			Treadwell & Rollo	Water	TDS	22-MAR-2006
185457-022			Treadwell & Rollo	Water	TDS	22-MAR-2006
185457-023			Treadwell & Rollo	Water	TDS	22-MAR-2006
185457-024			Treadwell & Rollo	Water	TDS	22-MAR-2006
185457-025			Treadwell & Rollo	Water	TDS	22-MAR-2006
185457-026			Treadwell & Rollo	Water	TDS	22-MAR-2006
185457-027			Treadwell & Rollo	Water	TDS	22-MAR-2006
QC331865	BLANK			Water	TDS	
QC331866	BS			Water	TDS	
QC331867	BSD			Water	TDS	
QC331868	SDUP	of 185457-009		Water	TDS	
QC331869	SDUP	of 185457-016		Water	TDS	
QC331870	SDUP	of 185457-027		Water	TDS	

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111354
Date Started: 15-MAR-2006
Batched by : Jason K. Spence

Analysis : TDS
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185373-001			Acme Fill Corp.	Water	TDS	20-MAR-2006
185408-001			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-002			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-003			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-004			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-005			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-006			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-007			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-008			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-009			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-010			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-011			Treadwell & Rollo	Water	TDS	21-MAR-2006
185457-001			Treadwell & Rollo	Water	TDS	22-MAR-2006
185463-001			Treadwell & Rollo	Water	TDS	22-MAR-2006
QC331712	BLANK			Water	TDS	
QC331713	BS			Water	TDS	
QC331714	BSD			Water	TDS	
QC331715	SDUP	of 185373-001		Water	TDS	
QC331716	SDUP	of 185408-002		Water	TDS	
QC331717	SDUP	of 185408-008		Water	TDS	
QC331718	SDUP	of 185408-010		Water	TDS	

Curtis & Tompkins, Ltd.

Total Organic Carbon (TOC)

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 415.2
Analyte:	Total Organic Carbon	Units:	mg/L
Matrix:	Water	Received:	03/10/06

Field ID	Type	Lab ID	Result	RL	Diln Fac	Batch#	Sampled	Analyzed
231GW10	SAMPLE	185457-009	8.4	0.50	1.000	111803	03/09/06	03/28/06
231GW30	SAMPLE	185457-010	5.9	0.50	1.000	111803	03/09/06	03/28/06
231GW22	SAMPLE	185457-011	27	1.0	2.000	111818	03/09/06	03/29/06
DUP0309061A	SAMPLE	185457-012	28	1.0	2.000	111818	03/09/06	03/29/06
231GW16	SAMPLE	185457-013	8.1	0.50	1.000	111803	03/09/06	03/28/06
1065PZ4A	SAMPLE	185457-014	12	0.50	1.000	111803	03/09/06	03/28/06
231PZ02	SAMPLE	185457-017	45	1.5	3.000	111818	03/10/06	03/29/06
1065MW9A	SAMPLE	185457-023	2.1	0.50	1.000	111818	03/09/06	03/29/06
DUP0309062B	SAMPLE	185457-024	2.5	0.50	1.000	111803	03/09/06	03/28/06
	BLANK	QC333496	ND	0.50	1.000	111803		03/28/06
	BLANK	QC333565	ND	0.50	1.000	111818		03/29/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Organic Carbon (TOC)

Lab #:	185457	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 415.2
Analyte:	Total Organic Carbon	Units:	mg/L
Field ID:	231GW10	Sampled:	03/09/06
MSS Lab ID:	185457-009	Received:	03/10/06
Matrix:	Water		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Analyzed
LCS	QC333497		15.00	14.63	98	80-120			1.000	111803	03/28/06
MS	QC333498	8.352	15.00	23.55	101	80-135			2.000	111803	03/28/06
MSD	QC333499		15.00	23.55	101	80-135	0	20	2.000	111803	03/28/06
BS	QC333566		15.00	13.69	91	80-120			1.000	111818	03/29/06
BSD	QC333567		15.00	14.10	94	80-120	3	20	1.000	111818	03/29/06

RPD= Relative Percent Difference

Analysis:	**Total Inorganic & Organic Carbon**	Date Analyzed:	**28-Mar-06**
Method:	**EPA 415.2 / SMWW 5310c**	Batch #:	**111803**
Matrix:	Water	Analyst:	SY
Instrument:	Tekmar-Dorman		
SOP#:	toc_415_rv 7.doc		

Calibration Range: **0.5- 20ppm** Calibration Date: 16-Feb-05

Standard Conc (mg/L)	Injection Size (mL)	Expected ug C	ABS	RF
0	4.0	0	285214	
0.5	4.0	2.0	1020522	510261
1.0	4.0	4.0	1372216	343054
5.0	4.0	20.0	5433587	271679
10.0	4.0	40.0	10544965	263624
20.0	4.0	80.0	22033950	275424

Correlation Coefficient (r):	0.9995	Slope:	269261
R-Square:	0.9989	Intercept:	229731

Calibration Verification Data

	TOC (mg/L) True Value	Instrument "ppm C"	TOC (mg/L) Report	Recovery	Recovery Limits
ICV	15.0	14.63	14.6311	98%	90% - 110%
ICB	0	0.20	ND		
CCV	15.0	15.32	15.316	102%	90% - 110%
CCB	0	0.30	ND		
CCV	15.0	14.92	14.9241	99%	90% - 110%
CCB	0	0.29	ND		

Jason Spen 3-29-6

Analysis:	**Total Inorganic & Organic Carbon**	Date Analyzed:	**28-Mar-06**
Method:	**EPA 415.2 / SMWW 5310c**	Batch #:	**111803**
Matrix:	Water	Analyst:	SY
Instrument:	Tekmar-Dorman		

Batch QC Data

Sample	PDF	Instrument "ppm C"	**TOC (mg/L) Report**	Reporting Limit (mg/L)	TOC Spike Level (mg/L)	Recovery,%	%RPD
BLANK	1	0.2018	**ND**	0.5			
LCS	1	14.6311	**14.6311**	0.5	15	97.5	
185457-009	1	8.3524	**8.3524**	0.5			
MS	2	11.7772	**23.5544**	1.0	15	101.3	
MSD	2	11.7772	**23.5544**	1.0	15	101.3	0.00

QC Limits	Recovery	RPD
LCS/ BS/ BSD	80 - 120	20
SSPIKE/ SDUP	80 - 135	20

Sample Data

Sample	IDF	Instrument "ppm C"	**TOC (mg/L) Report**	Reporting Limit (mg/L)
185457-10	1	5.86	**5.86**	0.5
185457-13	1	8.14	**8.14**	0.5
185457-14	1	11.78	**11.78**	0.5
185457-24	1	2.49	**2.49**	0.5

Detailed Analysis Report Print Date/Time: 2006/03/28 19:32:21

Sample ID: blk
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03281416
Timestamp: 03/28/2006 14:30
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.3541	1.4164	510188	34.215	35.212	70
2	0.2930	1.1719	444346	34.086	35.083	69

<<<Statistics>>> Mean: 0.3235 Std Dev: 0.0432 RSD: 13.35

Sample ID: icb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03281416
Timestamp: 03/28/2006 14:44
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2018	0.8072	346152	34.162	35.152	63
2	0.2156	0.8626	361059	34.062	35.060	63

<<<Statistics>>> Mean: 0.2087 Std Dev: 0.0098 RSD: 4.68

Sample ID: icv/lcs
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03281416
Timestamp: 03/28/2006 15:01
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.6311	58.5245	15988075	34.132	35.130	148
2	14.8116	59.2464	16182460	34.216	35.214	139

<<<Statistics>>> Mean: 14.7213 Std Dev: 0.1276 RSD: 0.87

Sample ID: 185457-9S
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03281416
Timestamp: 03/28/2006 15:18
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	8.3524	33.4095	9124673	34.263	35.262	149
2	8.3245	33.2978	9094595	34.244	35.243	147

<<<Statistics>>> Mean: 8.3384 Std Dev: 0.0197 RSD: 0.24

Sample ID: 185457-9Vmsx2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03281416
Timestamp: 03/28/2006 15:34
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11.7772	47.1089	12813365	34.327	35.326	162
2	11.7574	47.0297	12792058	34.497	35.497	135

<<<Statistics>>> Mean: 11.7673 Std Dev: 0.0140 RSD: 0.12

Sample ID: 185457-9Vmsdx2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03281416
Timestamp: 03/28/2006 15:51
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11.7772	47.1089	12813387	34.438	35.436	159
2	11.7453	46.9813	12779027	34.475	35.474	152

<<<Statistics>>> Mean: 11.7612 Std Dev: 0.0226 RSD: 0.19

Sample ID: 185457-10G
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03281416
Timestamp: 03/28/2006 16:08
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.8618	23.4473	6442224	34.538	35.537	129
2	5.8715	23.4862	6452707	34.504	35.503	133

<<<Statistics>>> Mean: 5.8667 Std Dev: 0.0069 RSD: 0.12

Sample ID: 185457-11G
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03281416
Timestamp: 03/28/2006 16:28
Sample Type: Sample

rerun @ 2x

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	27.4220	109.6879	29663448	34.460	35.458	257
2	28.3371	113.3484	30649084	34.563	35.562	281

<<<Statistics>>> Mean: 27.8796 Std Dev: 0.6471 RSD: 2.32

Sample ID: 185457-12G
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03281416
Timestamp: 03/28/2006 16:50
Sample Type: Sample

rerun @ 2x

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	28.3247	113.2988	30635732	34.544	35.543	296
2	28.6925	114.7700	31031860	34.495	35.494	316

<<<Statistics>>> Mean: 28.5086 Std Dev: 0.2601 RSD: 0.91

Sample ID: 185457-13G
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03281416
Timestamp: 03/28/2006 17:10
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	8.1442	32.5769	8900472	34.514	35.512	223
2	7.8276	31.3103	8559432	34.353	35.352	234

<<<Statistics>>> Mean: 7.9859 Std Dev: 0.2239 RSD: 2.80

Sample ID: 185457-14D
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03281416
Timestamp: 03/28/2006 17:28
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11.7760	47.1041	12812072	34.346	35.346	208
2	11.7434	46.9735	12776913	34.502	35.501	200

<<<Statistics>>> Mean: 11.7597 Std Dev: 0.0231 RSD: 0.20

Sample ID: 15 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03281416
Timestamp: 03/28/2006 17:46
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	15.3160	61.2640	16725731	34.502	35.501	175
2	15.0760	60.3042	16467285	34.511	35.511	169

<<<Statistics>>> Mean: 15.1960 Std Dev: 0.1697 RSD: 1.12

Sample ID: ccb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03281416
Timestamp: 03/28/2006 18:00
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.5212	2.0849	690180	34.499	35.498	67
2	0.3037	1.2147	455875	34.236	35.229	64

<<<Statistics>>> Mean: 0.4125 Std Dev: 0.1538 RSD: 37.29

Sample ID: 185457-17G
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03281416
Timestamp: 03/28/2006 18:24
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	46.5977	186.3907	50316512	34.133	35.130	377
2	48.1155	192.4619	51951252	34.528	35.527	348

<<<Statistics>>> Mean: 47.3566 Std Dev: 1.0732 RSD: 2.27

Sample ID: 185457-23D
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03281416
Timestamp: 03/28/2006 18:42
Sample Type: Sample

→ Rerun

Bad RSD

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.8517	15.4068	4277254	34.414	35.413	193
2	2.9113	11.6454	3264442	34.233	35.231	189

<<<Statistics>>> Mean: 3.3815 Std Dev: 0.6650 RSD: 19.66

Sample ID: 185457-24F
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03281416
Timestamp: 03/28/2006 19:00
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.4871	9.9483	2807481	34.151	35.150	170
2	2.3922	9.5688	2705306	34.128	35.121	169

<<<Statistics>>> Mean: 2.4397 Std Dev: 0.0671 RSD: 2.75

Sample ID: 15 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03281416
Timestamp: 03/28/2006 19:17
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time

1	14.9241	59.6964	16303618	34.057	35.056	191
2	15.0099	60.0397	16396068	34.064	35.063	159

<<<Statistics>>> Mean: 14.9670 Std Dev: 0.0607 RSD: 0.41

Sample ID: ccb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03281416
Timestamp: 03/28/2006 19:31
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.4509	1.8037	614470	34.101	35.096	67
2	0.2870	1.1482	437956	33.915	34.910	64

<<<Statistics>>> Mean: 0.3690 Std Dev: 0.1159 RSD: 31.41

TOC Std: 1000ppm
(S2952 Exp Jun-18-06)

ICV/LCS,
2 ml → 200ml @ 15ppm

MS, MSD: 20ml of sample + 20ml of 15ppm → @ 7.5ppm

SY 3.29.06

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111803
Date Started: 28-MAR-2006
Batched by : Sunitha Yerragodula

Analysis : TOC
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185457-009			Treadwell & Rollo	Water	TOC	22-MAR-2006
185457-010			Treadwell & Rollo	Water	TOC	22-MAR-2006
185457-013			Treadwell & Rollo	Water	TOC	22-MAR-2006
185457-014			Treadwell & Rollo	Water	TOC	22-MAR-2006
185457-024			Treadwell & Rollo	Water	TOC	22-MAR-2006
QC333496	BLANK			Water	TOC	
QC333497	LCS			Water	TOC	
QC333498	MS	of 185457-009		Water	TOC	
QC333499	MSD	of 185457-009		Water	TOC	

Analysis:	**Total Inorganic & Organic Carbon**	Date Analyzed:	**29-Mar-06**
Method:	**EPA 415.2 / SMWW 5310c**	Batch #:	**111818**
Matrix:	Water	Analyst:	SY
Instrument:	Tekmar-Dorman		
SOP#:	toc_415_rv 7.doc		

Calibration Range: 0.5- 20ppm Calibration Date: 16-Feb-05

Standard Conc (mg/L)	Injection Size (mL)	Expected ug C	ABS	RF
0	4.0	0	285214	
0.5	4.0	2.0	1020522	510261
1.0	4.0	4.0	1372216	343054
5.0	4.0	20.0	5433587	271679
10.0	4.0	40.0	10544965	263624
20.0	4.0	80.0	22033950	275424

Correlation Coefficient (r):	0.9995	Slope:	269261
R-Square:	0.9989	Intercept:	229731

Calibration Verification Data

	TOC (mg/L) True Value	Instrument "ppm C"	TOC (mg/L) Report	Recovery	Recovery Limits
ICV	15.0	13.69	13.6883	91%	90% - 110%
ICB	0	0.07	ND		
CCV	15.0	14.47	14.4709	96%	90% - 110%
CCB	0	0.41	ND		

Jason Spen 3-29-6

Analysis:	**Total Inorganic & Organic Carbon**	Date Analyzed:	**29-Mar-06**
Method:	**EPA 415.2 / SMWW 5310c**	Batch #:	**111818**
Matrix:	Water	Analyst:	SY
Instrument:	Tekmar-Dorman		

Batch QC Data

Sample	PDF	Instrument "ppm C"	**TOC (mg/L) Report**	Reporting Limit (mg/L)	TOC Spike Level (mg/L)	Recovery,%	%RPD
BLANK	1	0.0721	**ND**	0.5			
BS	1	13.6883	**13.6883**	0.5	15	91.3 *	
BSD	1	14.0985	**14.0985**	0.5	15	94.0 *	2.95 *

QC Limits	Recovery	RPD
LCS/ BS/ BSD	80 - 120	20
SSPIKE/ SDUP	80 - 135	20

Sample Data

Sample	IDF	Instrument "ppm C"	**TOC (mg/L) Report**	Reporting Limit (mg/L)
185457-11	2	13.29	**26.58**	1.0
185457-12	2	14.09	**28.18**	1.0
185457-17	3	14.92	**44.77**	1.5
185457-23	1	2.12	**2.12**	0.5

Detailed Analysis Report Print Date/Time: 2006/03/29 11:37:11

Sample ID: blk
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03290852
Timestamp: 03/29/2006 09:05
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1575	0.6301	298450	33.788	34.788	61
2	0.1058	0.4232	242742	33.765	34.763	58

<<<Statistics>>> Mean: 0.1317 Std Dev: 0.0366 RSD: 27.77

Sample ID: icb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03290852
Timestamp: 03/29/2006 09:18
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0721	0.2883	206419	33.889	34.879	54
2	0.0730	0.2922	207473	33.804	34.798	54

<<<Statistics>>> Mean: 0.0725 Std Dev: 0.0006 RSD: 0.88

Sample ID: 15 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY .
Mode: TOC
Filename: 03290852
Timestamp: 03/29/2006 09:35
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.6883	54.7531	14972593	33.919	34.918	154
2	13.9678	55.8711	15273614	34.072	35.072	142

<<<Statistics>>> Mean: 13.8281 Std Dev: 0.1976 RSD: 1.43

Sample ID: bsd
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03290852
Timestamp: 03/29/2006 09:51
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.0985	56.3941	15313518	34.212	35.209	140
2	14.2158	56.8634	15439877	34.167	35.166	149

<<<Statistics>>> Mean: 14.1572 Std Dev: 0.0829 RSD: 0.59

Sample ID: 185457-23F
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03290852
Timestamp: 03/29/2006 10:09
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.1213	8.4851	2413502	34.319	35.315	168
2	2.1681	8.6724	2463937	34.084	35.081	175

<<<Statistics>>> Mean: 2.1447 Std Dev: 0.0331 RSD: 1.54

Sample ID: 185457-11Hx2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03290852
Timestamp: 03/29/2006 10:27
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.2884	53.1538	14441025	34.234	35.233	207
2	13.7552	55.0206	14943700	34.425	35.425	210

<<<Statistics>>> Mean: 13.5218 Std Dev: 0.3301 RSD: 2.44

Sample ID: 185457-12Hx2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03290852
Timestamp: 03/29/2006 10:47
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.0895	56.3582	15303842	34.442	35.439	265
2	14.2305	56.9218	15455619	34.422	35.422	255

<<<Statistics>>> Mean: 14.1600 Std Dev: 0.0997 RSD: 0.70

Sample ID: 185457-17Hx3
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03290852
Timestamp: 03/29/2006 11:06
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.9220	59.6881	16200462	34.548	35.548	211
2	15.1123	60.4493	16405415	34.550	35.550	210

<<<Statistics>>> Mean: 15.0171 Std Dev: 0.1346 RSD: 0.90

Sample ID: 15 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03290852
Timestamp: 03/29/2006 11:23
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.4709	57.8838	15815555	34.527	35.525	167
2	14.3157	57.2627	15648341	34.597	35.597	170

<<<Statistics>>> Mean: 14.3933 Std Dev: 0.1097 RSD: 0.76

Sample ID: ccb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03290852
Timestamp: 03/29/2006 11:36
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.4116	1.6464	572107	34.795	35.790	63
2	0.2196	0.8785	365334	34.580	35.577	61

<<<Statistics>>> Mean: 0.3156 Std Dev: 0.1358 RSD: 43.02

TOC Std: 1000 ppm
(S2952 Exp Jun-18.06)
ICV/BS/BSD, CCV
3ml → 200ml @ 15ppm
SY 3.29.06

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111818
Date Started: 29-MAR-2006
Batched by : Sunitha Yerragodula

Analysis : TOC
Bgroup : N/A
Department : Wet Chemistry

Sample	Type	Client	Matrix	Analyses	Due Date
185457-011		Treadwell & Rollo	Water	TOC	22-MAR-2006
185457-012		Treadwell & Rollo	Water	TOC	22-MAR-2006
185457-017		Treadwell & Rollo	Water	TOC	22-MAR-2006
185457-023		Treadwell & Rollo	Water	TOC	22-MAR-2006
QC333565	BLANK		Water	TOC	
QC333566	BS		Water	TOC	
QC333567	BSD		Water	TOC	

Total Organic Carbon
by Walkley-Black Method
Method Detection Limit Study

Analysis: **Total Organic Carbon**
Method: EPA 415.2 / SM 5310C
Matrix: Water

Analysis Date: **6-May-05**
Batch: 101838
Analyst: DW

Conc. (mg/L)	0.500
1	0.6200
2	0.5500
3	0.5500
4	0.5800
5	0.6200
6	0.6300
7	0.5500
STDEVP	0.034166
Student's t-value	3.143
ML (mg/L)	**0.1074**
RL (mg/L)	0.50
Status	PASS

Note: Student-T value for 7 replicates = 3.143, for 8 replicates = 2.998

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 185463

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.04.51
Location: Presidio

Sample ID	Lab ID
NKGW03	185463-001
1221GW103	185463-002
1260GW101	185463-003
1260GW103	185463-004
1221GW104	185463-005
TB0310063B	185463-006

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 5/1/06
Operations Manager

Signature: _____ Date: 4/29/06
Project Manager

NELAP # 01107CA

Page 1 of ___

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**185463**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**03/10/06**
Samples Received:	**03/10/06**

This hardcopy data package contains sample and QC results for five water samples, requested for the above referenced project on 03/10/06. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):
No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
High response was observed for diesel C12-C24 in the CCV analyzed 03/23/06 00:32; this analyte was not detected at or above the RL in the associated samples. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
High response was observed for bromomethane in the ICV analyzed 02/08/06 12:33; this analyte was not detected at or above the RL in the associated samples. No other analytical problems were encountered.

Polynuclear Aromatics by HPLC (EPA 8310):
Low recoveries were observed for benzo(a)pyrene in the MS/MSD of DAESP03 (lab # 185408-008); the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Metals (EPA 6020 and EPA 7470A):
High recovery was observed for magnesium in the MS of DAESP03 (lab # 185408-008); the BS/BSD were within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Total Cyanide (EPA 335.2):
No analytical problems were encountered.

Total Dissolved Solids (TDS) (EPA 160.1):
No analytical problems were encountered.

NDMA (EPA 1625):
Pacific Analytical, Inc. in Carlsbad, CA performed the analysis. Please see the Pacific Analytical, Inc. case narrative.

Chain of Custody

185463

Treadwell&Rollo

Environmental and Geotechnical Consultants

555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. 0P 2033
Page: ___ of ___

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTS R Cornish
Recorder (signature required): [signature]
Sent to Laboratory (Name): Curtis & Thompkins

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260), MTBE	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (22, 13, 9, 8, 7, 3, Other)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)		NDMA 1625		Cyanide		BTEX, MTBE	COMMENTS / NOTES
-1	NRGW03	3/10/06	1130			X		3		1	1	3	X	X	X	X			X (23)		X			X		X		X	
-2	1221GW03	↓	1320			X		3				3	X	X	X							X						X	
													•			•													
4																													

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists (23** - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) **(13** - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) **(9** - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) **(8** - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) **(3** - Al, Fe, and Cr) **(Other** -)

RELINQUISHED BY: [signature]	DATE: 3/10/06	RECEIVED BY: [signature]	DATE: 3/10/06
PRINT NAME: Peter Cornish FIRM: BTS	TIME: 1415	PRINT NAME: Tony Rojas FIRM: C&T	TIME: 1415
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

White Copy - Original **Yellow Copy** - Laboratory **Pink Copy** - Field

185463

Treadwell&Rollo

Environmental and Geotechnical Consultants

555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2034
Page: 1 of ___

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): B TS, John Wong
Recorder (signature required): [signature]
Sent to Laboratory (Name): CTT

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

REQUESTED ANALYSES

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260)	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	BTEX, MTBE						COMMENTS / NOTES
-3	1260GW101	3/10/06	1205			X		3				3	X	X	X								X						
-4	1260GW103	3/10/06	1300			X		3				3	X	X	X								X						
-5	1221GW104	3/10/06	1340			X		3				3	X	X	X								X						
	~~FB0310~~																												
-6	TB031006 3B	3/10/06	–			X		2																					on hold
													•			•													
	5																												

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists (23** - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (**13** - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (**9** - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (**8** - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (**7** - As, Cr, Cd, Cu, Pb, Ni and Zn) (**3** - Al, Fe, and Cr) (**Other** -

RELINQUISHED BY: [signature]	DATE: 3/10/06	TIME: 1410	RECEIVED BY: [signature]	DATE: 3/10/06	TIME: 1410
PRINT NAME:	FIRM:		PRINT NAME:	FIRM:	
RELINQUISHED BY:	DATE:		RECEIVED BY:	DATE:	
PRINT NAME:	FIRM:	TIME:	PRINT NAME:	FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

White Copy - Original **Yellow Copy** - Laboratory **Pink Copy** - Field

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 185463 Date Received: 3/10/06 Number of Coolers: 2
Client: Treadwell + Rollo Project: Presidio

A. Preliminary Examination Phase
Date Opened: 3/10/06 By (print): Peter P. (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? 1 on lid Seal date: 3/10/06 Seal name: none
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: wet Temperature: 2.3°, 1.5°

B. Login Phase
Date Logged In: 3/10/06 By (print): Peter P. (sign) [signature]

1. Describe type of packing in cooler: Zip loc bags
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

TOTAL VOLATILE HYDROCARBONS/

BTXE

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	NKGW03	Batch#:	111211
Lab ID:	185463-001	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/11/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	110	65-135
Bromofluorobenzene (FID)	107	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1221GW103	Batch#:	111211
Lab ID:	185463-002	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/11/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	104	65-135	EPA 8015B
Bromofluorobenzene (FID)	100	65-135	EPA 8015B
Trifluorotoluene (PID)	86	65-135	EPA 8021B
Bromofluorobenzene (PID)	84	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1260GW101	Batch#:	111211
Lab ID:	185463-003	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/11/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	109	65-135	EPA 8015B
Bromofluorobenzene (FID)	104	65-135	EPA 8015B
Trifluorotoluene (PID)	91	65-135	EPA 8021B
Bromofluorobenzene (PID)	89	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1260GW103	Batch#:	111211
Lab ID:	185463-004	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/11/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	108	65-135	EPA 8015B
Bromofluorobenzene (FID)	103	65-135	EPA 8015B
Trifluorotoluene (PID)	87	65-135	EPA 8021B
Bromofluorobenzene (PID)	86	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1221GW104	Batch#:	111211
Lab ID:	185463-005	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/11/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	107	65-135	EPA 8015B
Bromofluorobenzene (FID)	102	65-135	EPA 8015B
Trifluorotoluene (PID)	85	65-135	EPA 8021B
Bromofluorobenzene (PID)	85	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331078	Batch#:	111211
Matrix:	Water	Analyzed:	03/11/06
Units:	ug/L		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	109	65-135	EPA 8015B
Bromofluorobenzene (FID)	104	65-135	EPA 8015B
Trifluorotoluene (PID)	89	65-135	EPA 8021B
Bromofluorobenzene (PID)	86	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8021B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331079	Batch#:	111211
Matrix:	Water	Analyzed:	03/11/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
MTBE	20.00	19.87	99	65-135
Benzene	20.00	18.36	92	65-135
Toluene	20.00	19.01	95	65-135
Ethylbenzene	20.00	19.40	97	65-135

Surrogate	%REC	Limits
Trifluorotoluene (PID)	85	65-135
Bromofluorobenzene (PID)	86	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331080	Batch#:	111211
Matrix:	Water	Analyzed:	03/11/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	2,024	101	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	134	65-135
Bromofluorobenzene (FID)	111	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1260GW101	Batch#:	111211
MSS Lab ID:	185463-003	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/11/06
Diln Fac:	1.000		

Type: MS Lab ID: QC331108

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	13.67	2,000	2,022	100	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	134	65-135
Bromofluorobenzene (FID)	110	65-135

Type: MSD Lab ID: QC331109

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,997	99	65-135	1	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	128	65-135
Bromofluorobenzene (FID)	108	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185463 GCVOA Water: EPA 8015B

Inst : GC05
Calnum : 315497353001
Units : ng

Name : tvh
Date : 11-DEC-2005 10:16
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	345_003	315497353003	tvh 1	11-DEC-2005 10:16	S1367 (1000X), S1895 (5000X)
L2	345_004	315497353004	tvh 2	11-DEC-2005 10:48	S1368 (1000X), S1895 (5000X)
L3	345_005	315497353005	tvh 3	11-DEC-2005 11:19	S1369 (1000X), S1895 (5000X)
L4	345_006	315497353006	tvh 4	11-DEC-2005 11:51	S1370 (2000X), S1895 (5000X)
L5	345_007	315497353007	tvh 5	11-DEC-2005 12:23	S1370 (1000X), S1895 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	G	1693.0	1307.5	1282.8	1171.1	1217.8	AVRG		7.49E-4		1334.5	16	0.995	20	

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AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

315497353001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185463 GCVOA Water: EPA 8015B / EPA 8021B

Inst : GC05
Calnum : 316013420001
Units : ng

Name : TFT/BFB
Date : 09-JAN-2006 12:00
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	009_006	316013420006	tft/bfb 1	09-JAN-2006 12:00	S1889 (5000X)
L2	009_007	316013420007	tft/bfb 2	09-JAN-2006 12:32	S1890 (5000X)
L3	009_008	316013420008	tft/bfb 3	09-JAN-2006 13:04	S1891 (5000X)
L4	009_009	316013420009	tft/bfb 4	09-JAN-2006 13:42	S1892 (5000X)
L5	009_010	316013420010	tft/bfb 5	09-JAN-2006 14:13	S1893 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	G	1339.7	1422.7	1133.8	1120.9	1121.5	AVRG		8.15E-4		1227.7	12	0.995	20	
Bromofluorobenzene (FID)	G	858.52	958.51	732.70	751.93	754.50	AVRG		0.00123		811.23	12	0.995	20	
Trifluorotoluene (PID)	H	455.13	504.69	437.53	455.86	452.98	AVRG		0.00217		461.24	6	0.995	20	
Bromofluorobenzene (PID)	H	901.33	1032.5	919.64	956.84	945.96	AVRG		0.00105		951.26	5	0.995	20	
Trifluorotoluene (PID)	I	138.14	152.07	139.19	147.34	149.65	AVRG		0.00688		145.28	4	0.995	20	
Bromofluorobenzene (PID)	I	287.49	334.84	315.38	332.14	331.18	AVRG		0.00312		320.20	6	0.995	20	

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AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

316013420001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185463 GCVOA Water: EPA 8021B

Inst : GC05
Calnum : 316062601001
Units : ng

Name : MBTXE
Date : 12-FEB-2006 14:34
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	043_005	316062601005	btxe 1	12-FEB-2006 14:34	S2368 (1000X), S2543 (5000X)
L2	043_006	316062601006	mtbe 1	12-FEB-2006 15:06	S2367 (1250X), S2543 (5000X)
L3	043_007	316062601007	mbtxe 2	12-FEB-2006 15:38	S2367 (500X), S2543 (5000X)
L4	043_008	316062601008	mbtxe 3	12-FEB-2006 16:10	S2367 (125X), S2543 (5000X)
L5	043_009	316062601009	mbtxe 4	12-FEB-2006 16:42	S2366 (1000X), S2543 (5000X)
L6	043_010	316062601010	mbtxe 5	12-FEB-2006 17:13	S2366 (500X), S2543 (5000X)
L7	043_011	316062601011	mbtxe 6	12-FEB-2006 17:45	S2366 (250X), S2543 (5000X)
L8	043_012	316062601012	mtbe 7	12-FEB-2006 18:17	S1492 (500X), S2543 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
MTBE	H		500.50	507.40	495.60	549.62	570.21	548.04	496.84	AVRG		0.00191		524.03	6	0.995	20	
Benzene	H	1636.0		1390.9	1369.3	1430.7	1444.7	1442.5		AVRG		6.89E-4		1452.4	7	0.995	20	
Toluene	H	1558.0		1351.6	1324.7	1322.4	1342.2	1335.2		AVRG		7.29E-4		1372.3	7	0.995	20	
Ethylbenzene	H	1196.0		1171.3	1134.0	1149.3	1152.6	1141.2		AVRG		8.64E-4		1157.4	2	0.995	20	
m,p-Xylenes	H	1636.0		1404.5	1425.6	1414.8	1407.6	1395.4		AVRG		6.91E-4		1447.3	6	0.995	20	
o-Xylene	H	1328.0		1159.0	1154.6	1142.8	1149.6	1128.8		AVRG		8.50E-4		1177.1	6	0.995	20	
MTBE	I		134.10	153.84	165.11	209.16	228.42	230.46	215.86	AVRG		0.00524		190.99	20	0.995	20	
Benzene	I	424.80		443.80	505.67	580.08	602.82	619.99		AVRG		0.00189		529.53	16	0.995	20	
Toluene	I	342.00		413.68	471.62	538.20	562.15	579.48		AVRG		0.00206		484.52	19	0.995	20	
Ethylbenzene	I	315.26		373.81	422.87	485.20	502.89	521.53		AVRG		0.00229		436.93	19	0.995	20	
m,p-Xylenes	I	463.32		427.11	496.13	565.88	587.17	611.29		AVRG		0.00190		525.15	14	0.995	20	
o-Xylene	I	306.48		357.56	411.56	471.31	495.69	514.60		AVRG		0.00235		426.20	19	0.995	20	

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AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

316062601001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185463 GCVOA Water
EPA 8015B

Inst : GC05 Name : tvh
Calnum : 315497353001 Cal Date: 11-DEC-2005

ICV 315497353010 (345_010 11-DEC-2005) stds: S2241 (1000X), S1895 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	G	10000	9115	ng	-9	

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185463 GCVOA Water
EPA 8021B

Inst : GC05 Name : MBTXE
Calnum : 316062601001 Cal Date: 12-FEB-2006

ICV 316062601015 (043_015 12-FEB-2006) stds: S2157 (1000X), S2543 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
MTBE	H	100.0	84.56	ng	-15	15	
Benzene	H	100.0	100.9	ng	1	15	
Toluene	H	100.0	101.7	ng	2	15	
Ethylbenzene	H	100.0	100.4	ng	0	15	
m,p-Xylenes	H	200.0	205.6	ng	3	15	
o-Xylene	H	100.0	101.2	ng	1	15	
MTBE	I	100.0	87.71	ng	-12	15	
Benzene	I	100.0	111.3	ng	11	15	
Toluene	I	100.0	108.2	ng	8	15	
Ethylbenzene	I	100.0	107.9	ng	8	15	
m,p-Xylenes	I	200.0	217.8	ng	9	15	
o-Xylene	I	100.0	103.0	ng	3	15	

CURTIS & TOMPKINS SPIKE USER REPORT FOR 185463 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC05 Run Name: QC331079 IDF : 1.0
Seqnum : 316101694002.2 File : 070_002 Time : 11-MAR-2006 15:25
Standards: S2650 (1000X), S2543 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
MTBE	H	316062601001	12-FEB-2006	520.60	100.0	99	ng	-1	15	
MTBE	I	316062601001	12-FEB-2006	179.18	100.0	94	ng	-6	15	
Benzene	H	316062601001	12-FEB-2006	1333.2	100.0	92	ng	-8	15	
Benzene	I	316062601001	12-FEB-2006	514.90	100.0	97	ng	-3	15	
Toluene	H	316062601001	12-FEB-2006	1304.6	100.0	95	ng	-5	15	
Toluene	I	316062601001	12-FEB-2006	464.25	100.0	96	ng	-4	15	
Ethylbenzene	H	316062601001	12-FEB-2006	1122.6	100.0	97	ng	-3	15	
Ethylbenzene	I	316062601001	12-FEB-2006	412.45	100.0	94	ng	-6	15	
m,p-Xylenes	H	316062601001	12-FEB-2006	1370.5	100.0	95	ng	-5	15	
m,p-Xylenes	I	316062601001	12-FEB-2006	484.19	100.0	92	ng	-8	15	
o-Xylene	H	316062601001	12-FEB-2006	1131.0	100.0	96	ng	-4	15	
o-Xylene	I	316062601001	12-FEB-2006	400.46	100.0	94	ng	-6	15	
Trifluorotoluene (FID)	G	316013420001	09-JAN-2006	1287.3	450.0	470	ng	5	15	
Bromofluorobenzene (FID)	G	316013420001	09-JAN-2006	804.21	450.0	450	ng	-1	15	
Trifluorotoluene (PID)	H	316013420001	09-JAN-2006	394.33	450.0	380	ng	-15	15	
Trifluorotoluene (PID)	I	316013420001	09-JAN-2006	142.44	450.0	440	ng	-2	15	
Bromofluorobenzene (PID)	H	316013420001	09-JAN-2006	817.48	450.0	390	ng	-14	15	
Bromofluorobenzene (PID)	I	316013420001	09-JAN-2006	313.27	450.0	440	ng	-2	15	

CURTIS & TOMPKINS SPIKE USER REPORT FOR 185463 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC05 Run Name: QC331080 IDF : 1.0
Seqnum : 316101694003.2 File : 070_003 Time : 11-MAR-2006 15:57
Standards: S2869 (1000X), S2543 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	G	315497353001	11-DEC-2005	1350.6	10000	10000	ng	1	15	
Trifluorotoluene (FID)	G	316013420001	09-JAN-2006	1646.2	450.0	600	ng	**34**	15	c+ PASS
Bromofluorobenzene (FID)	G	316013420001	09-JAN-2006	897.89	450.0	500	ng	11	15	
Trifluorotoluene (PID)	H	316013420001	09-JAN-2006	507.47	450.0	500	ng	10	15	
Trifluorotoluene (PID)	I	316013420001	09-JAN-2006	189.53	450.0	590	ng	**30**	15	c+ N/A
Bromofluorobenzene (PID)	H	316013420001	09-JAN-2006	879.30	450.0	420	ng	-8	15	
Bromofluorobenzene (PID)	I	316013420001	09-JAN-2006	365.83	450.0	510	ng	14	15	

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+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185463 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC05 Run Name: mbtxe IDF : 1.0
Seqnum : 316101694012 File : 070_012 Time : 11-MAR-2006 21:47
Standards: S2650 (666.7X), S2543 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Trifluorotoluene (FID)	G	316013420001	09-JAN-2006	1264.0	450.0	463.3	ng	3	15	
Bromofluorobenzene (FID)	G	316013420001	09-JAN-2006	800.05	450.0	443.8	ng	-1	15	
MTBE	H	316062601001	12-FEB-2006	511.73	150.0	146.5	ng	-2	15	
Benzene	H	316062601001	12-FEB-2006	1405.0	150.0	145.1	ng	-3	15	
Toluene	H	316062601001	12-FEB-2006	1324.0	150.0	144.7	ng	-4	15	
Ethylbenzene	H	316062601001	12-FEB-2006	1129.9	150.0	146.4	ng	-2	15	
m,p-Xylenes	H	316062601001	12-FEB-2006	1394.4	150.0	144.5	ng	-4	15	
o-Xylene	H	316062601001	12-FEB-2006	1142.6	150.0	145.6	ng	-3	15	
Trifluorotoluene (PID)	H	316013420001	09-JAN-2006	401.32	450.0	391.5	ng	-13	15	
Bromofluorobenzene (PID)	H	316013420001	09-JAN-2006	805.56	450.0	381.1	ng	-15	15	
MTBE	I	316062601001	12-FEB-2006	189.01	150.0	148.4	ng	-1	15	
Benzene	I	316062601001	12-FEB-2006	549.15	150.0	155.6	ng	4	15	
Toluene	I	316062601001	12-FEB-2006	487.22	150.0	150.8	ng	1	15	
Ethylbenzene	I	316062601001	12-FEB-2006	432.91	150.0	148.6	ng	-1	15	
m,p-Xylenes	I	316062601001	12-FEB-2006	504.30	150.0	144.0	ng	-4	15	
o-Xylene	I	316062601001	12-FEB-2006	422.81	150.0	148.8	ng	-1	15	
Trifluorotoluene (PID)	I	316013420001	09-JAN-2006	141.70	450.0	438.9	ng	-2	15	
Bromofluorobenzene (PID)	I	316013420001	09-JAN-2006	309.83	450.0	435.4	ng	-3	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185463 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC05 Run Name: tvh IDF : 1.0
Seqnum : 316101694014 File : 070_014 Time : 11-MAR-2006 22:49
Standards: S2869 (666.7X), S2543 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	G	315497353001	11-DEC-2005	1312.7	15000	14760	ng	-2	15	
Trifluorotoluene (FID)	G	316013420001	09-JAN-2006	1666.2	450.0	610.7	ng	**36**	15	c+ PASS
Bromofluorobenzene (FID)	G	316013420001	09-JAN-2006	904.24	450.0	501.6	ng	11	15	
Trifluorotoluene (PID)	H	316013420001	09-JAN-2006	548.83	450.0	535.5	ng	**19**	15	c+ N/A
Bromofluorobenzene (PID)	H	316013420001	09-JAN-2006	833.11	450.0	394.1	ng	-12	15	
Trifluorotoluene (PID)	I	316013420001	09-JAN-2006	197.35	450.0	611.3	ng	**36**	15	c+
Bromofluorobenzene (PID)	I	316013420001	09-JAN-2006	356.27	450.0	500.7	ng	11	15	

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+=high bias c=CCV

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PROJECT GC 05 SEQUENCE LOG BOOK

Notebook No. BK 2266

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316101694 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 11-MAR-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	070_001	X	ib			11-MAR-2006 14:54	1.0					1	
002	070_002	CCV/LCS	QC331079	111211	Water	11-MAR-2006 15:25	1.0		5000			2 1 PASS	
003	070_003	CCV/LCS	QC331080	111211	Water	11-MAR-2006 15:57	1.0		5000			3 1 ↓	
004	070_004	BLANK	QC331078	111211	Water	11-MAR-2006 16:29	1.0	2	5000			1 <1/2 RL	
005	070_005	SAMPLE	185463-001	111211	Water	11-MAR-2006 18:06	1.0	1	5000	A	1.3	1	
006	070_006	SAMPLE	185463-002	111211	Water	11-MAR-2006 18:37	1.0	1	5000	↓	↓	1	
007	070_007	MSS	185463-003	111211	Water	11-MAR-2006 19:09	1.0	2	5000		1.6	1	
008	070_008	MS	QC331108	111211	Water	11-MAR-2006 19:41	1.0		5000			3 1 PASS	
009	070_009	MSD	QC331109	111211	Water	11-MAR-2006 20:13	1.0		5000			3 1 ↓	
010	070_010	SAMPLE	185463-004	111211	Water	11-MAR-2006 20:44	1.0	1	5000			1	
011	070_011	SAMPLE	185463-005	111211	Water	11-MAR-2006 21:15	1.0	1	5000	↓	↓	1	
012	070_012	CCV	mbtxe	111211		11-MAR-2006 21:47	1.0		5000			2 1 PASS	
013	070_013	CCV	mbtxe	111211		11-MAR-2006 22:18	1.0		5000			2 1 ↓	
014	070_014	CCV	tvh	111211		11-MAR-2006 22:49	1.0		5000			3 1	
015	070_015	CCV	tvh	111211		11-MAR-2006 23:21	1.0		5000			3 1 ↓	
016	070_016	SAMPLE	185467-001	111211	Water	11-MAR-2006 23:52	1.0		5000	A	1.6	1	
017	070_017	SAMPLE	185467-002	111211	Water	12-MAR-2006 00:23	1.0		5000		1.3	1	
018	070_018	SAMPLE	185467-003	111211	Water	12-MAR-2006 00:55	1.0		5000		1.6	1	
019	070_019	SAMPLE	185467-004	111211	Water	12-MAR-2006 01:26	1.0		5000		1.3	1	
020	070_020	SAMPLE	185472-005	111211	Water	12-MAR-2006 01:57	1.0		5000			1	
021	070_021	SAMPLE	185472-006	111211	Water	12-MAR-2006 02:28	1.0		5000		↓	1	
022	070_022	SAMPLE	185472-007	111211	Water	12-MAR-2006 02:59	1.0		5000		1.6	1	
023	070_023	SAMPLE	185472-008	111211	Water	12-MAR-2006 03:31	1.0		5000		↓	1	
024	070_024	SAMPLE	185457-010	111211	Water	12-MAR-2006 04:02	1.0	1	5000		1.3	1	
025	070_025	SAMPLE	185457-019	111211	Water	12-MAR-2006 04:33	1.0	1	5000	↓	↓	1	
026	070_026	CCV	tvh	111211		12-MAR-2006 05:05	1.0		5000			3 1 PASS	
027	070_027	CCV	tvh	111211		12-MAR-2006 05:36	1.0		5000			3 1	
028	070_028	CCV	mbtxe	111211		12-MAR-2006 06:07	1.0		5000			2 1	
029	070_029	CCV	mbtxe	111211		12-MAR-2006 06:38	1.0		5000			2 1 ↓	

Stds used: 1=S2543 2=S2650 3=S2869

Analyst: TJP Date: 3/13/06

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Dulce J. Perez 3/13/06

Signed Dulce J. Perez Date 3/13/06

Read and Understood By

Signed Michael [illegible] Date 03/13/06

Continued on Page —

PROJECT GC05 Sequence by BJK

Notebook No. BL2051

Continued From Page

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 11-DEC-2005

Sequence: 315497353 Instrument: GC05
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #5 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC SPK uL	VL	pH	Stds Used	>LR
001	345_001	X	ib			11-DEC-2005 09:13	1.0				1	
002	345_002	X	ib			11-DEC-2005 09:44	1.0				1	
003	345_003	ICAL	tvh 1			11-DEC-2005 10:16	1.0				2 1 PASS	
004	345_004	ICAL	tvh 2			11-DEC-2005 10:48	1.0				3 1	
005	345_005	ICAL	tvh 3			11-DEC-2005 11:19	1.0				4 1	
006	345_006	ICAL	tvh 4			11-DEC-2005 11:51	1.0				5 1	
007	345_007	ICAL	tvh 5			11-DEC-2005 12:23	1.0				5 1	
008	345_008	X	ib			11-DEC-2005 12:55	1.0				1	
009	345_009	X	tvh			11-DEC-2005 13:26	1.0	5000			6 1 Not used	
010	345_010	ICV	tvh			11-DEC-2005 13:58	1.0	5000			7 1 PASS	
011	345_011	X	ib			11-DEC-2005 14:30	1.0				1	
012	345_012	X	carbmark			11-DEC-2005 15:02	1.0				8 9 1	

Stds used: 1=S1895 2=S1367 3=S1368 4=S1369 5=S1370 6=S2152 7=S2241 8=S1645 9=S1646

Analyst: BJK Date: 12/13/05

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BJK 12/13/05

Signed BJK Date 12/13/05

Read and Understood By

Signed Phillip J. Perez Date 12/13/05

Continued on Page

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316013420 Instrument: GC05
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #5 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 09-JAN-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL (Code ID)	pH	Stds Used	>LR
001	009_001	X	ib			09-JAN-2006 07:40	1.0					1	
002	009_002	X	mbtxe		Water	09-JAN-2006 08:11	1.0					2 1 Not used	
003	009_003	X	gas		Water	09-JAN-2006 08:43	1.0					3 1	
004	009_004	X	ib			09-JAN-2006 09:14	1.0					1	
005	009_005	X	ib			09-JAN-2006 11:29	1.0					1	
006	009_006	ICAL	tft/bfb 1			09-JAN-2006 12:00	1.0					4 PASS/USE	
007	009_007	ICAL	tft/bfb 2			09-JAN-2006 12:32	1.0					5	
008	009_008	ICAL	tft/bfb 3			09-JAN-2006 13:04	1.0					6	
009	009_009	ICAL	tft/bfb 4			09-JAN-2006 13:42	1.0					7	
010	009_010	ICAL	tft/bfb 5			09-JAN-2006 14:13	1.0					8	
011	009_011	X	ib			09-JAN-2006 15:31	1.0					1	
012	009_012	CCV/LCS	QC323487	109331	Soil	09-JAN-2006 16:03	1.0		5000			2 1 PASS/USE	
013	009_013	CCV/LCS	QC323488	109331	Soil	09-JAN-2006 16:35	1.0	1	5000			3 1	
014	009_014	BLANK	QC323486	109331	Soil	09-JAN-2006 17:06	1.0	4	5000			1 ≤ 1/2 RL	
015	009_015	MSS	184210-025	109331	Soil	09-JAN-2006 18:44	1.0	1	5000			1	
016	009_016	MS	QC323558	109331	Soil	09-JAN-2006 19:15	1.0	2	5000			3 1 PASS/USE	
017	009_017	MSD	QC323559	109331	Soil	09-JAN-2006 19:47	1.0	2	5000			3 1	
018	009_018	SAMPLE	184210-019	109331	Soil	09-JAN-2006 20:18	1.0		5000			1	
019	009_019	SAMPLE	184210-020	109331	Soil	09-JAN-2006 20:50	1.0		5000			1	
020	009_020	SAMPLE	184210-021	109331	Soil	09-JAN-2006 21:22	1.0		5000			1	
021	009_021	SAMPLE	184210-022	109331	Soil	09-JAN-2006 21:53	1.0		5000			1	
022	009_022	CCV	btxe	109331		09-JAN-2006 22:25	1.0		5000			2 1 PASS/USE	
023	009_023	CCV	btxe	109331		09-JAN-2006 22:56	1.0		5000			2 1	
024	009_024	CCV	tvh	109331		09-JAN-2006 23:28	1.0		5000			3 1	
025	009_025	CCV	tvh	109331		09-JAN-2006 23:59	1.0		5000			3 1	
026	009_026	SAMPLE	184210-023	109331	Soil	10-JAN-2006 00:31	1.0		5000			1	
027	009_027	SAMPLE	184210-024	109331	Soil	10-JAN-2006 01:03	1.0	6	5000			1	
028	009_028	SAMPLE	184210-024	109331	Soil	10-JAN-2006 07:38	1.0		5000			1	
029	009_029	SAMPLE	184210-026	109331	Soil	10-JAN-2006 08:09	1.0	1 2	5000			1	1:BR4FBZ=1175.89
030	009_030	SAMPLE	184210-027	109331	Soil	10-JAN-2006 08:41	1.0		5000			1	

Stds used: 1=S1895 2=S2369 3=S2400 4=S1889 5=S1890 6=S1891 7=S1892 8=S1893

Analyst: [signature] Date: 01/10/06
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Sent used in QC EM 128974-M104164

[signature] 1/10/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316013420 Instrument: GC05
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #5 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 09-JAN-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL (Code ID)	pH	Stds Used	>LR
031	009_031	CCV	btxe	109331		10-JAN-2006 09:12	1.0		5000			2 1 PASS/USE	
032	009_032	CCV	tvh	109331		10-JAN-2006 09:44	1.0		5000			3 1	

[signature] 1/10/06

Stds used: 1=S1895 2=S2369 3=S2400 4=S1889 5=S1890 6=S1891 7=S1892 8=S1893

Analyst: [signature] Date: 01/10/06
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Read and Understood By

[signature] 1/10/06
Signed Date

[signature] 1/10/06

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PROJECT GC05 Sequence Log Book

Notebook No. BL 2266
Continued From Page -

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316062601 Instrument: GC05
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #5 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 12-FEB-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC SPK uL	VL	pH	Stds Used	>LR
001	043_001	X	ib			12-FEB-2006 11:21	1.0				1	
002	043_002	X	mbtxe check			12-FEB-2006 11:52	1.0				2 1 Not used	
003	043_003	X	ib			12-FEB-2006 12:24	1.0				1	
004	043_004	X	ib			12-FEB-2006 14:02	1.0				1	
005	043_005	ICAL	btxe 1			12-FEB-2006 14:34	1.0				3 1 Pass/use	
006	043_006	ICAL	mtbe 1			12-FEB-2006 15:06	1.0				4 1	
007	043_007	ICAL	mbtxe 2			12-FEB-2006 15:38	1.0				4 1	
008	043_008	ICAL	mbtxe 3			12-FEB-2006 16:10	1.0				4 1	
009	043_009	ICAL	mbtxe 4			12-FEB-2006 16:42	1.0				5 1	
010	043_010	ICAL	mbtxe 5			12-FEB-2006 17:13	1.0				5 1	
011	043_011	ICAL	mbtxe 6			12-FEB-2006 17:45	1.0				5 1	
012	043_012	ICAL	mtbe 7			12-FEB-2006 18:17	1.0				6 1	
013	043_013	X	ib			12-FEB-2006 18:49	1.0				1	
014	043_014	X	mbtxe			12-FEB-2006 19:21	1.0				7 1 Not used	
015	043_015	ICV	mbtxe			12-FEB-2006 19:53	1.0	5000			7 1 Pass/use	

Stds used: 1=S2543 2=S2650 3=S2368 4=S2367 5=S2366 6=S1492 7=S2157

Analyst: [signature] Date: 02/13/06

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[signature] 02/13/06

Signed [signature] Date 02/13/06

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Signed [signature] Date 2/13/06

Read and Understood By

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REPORTING SUMMARY FOR 185463 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185463-001	Gasoline C7-C12	GC05	G	03/11/06 18:06
185463-001	Trifluorotoluene (FID)	GC05	G	03/11/06 18:06
185463-001	Bromofluorobenzene (FID)	GC05	G	03/11/06 18:06
185463-002	Gasoline C7-C12	GC05	G	03/11/06 18:37
185463-002	MTBE	GC05	H	03/11/06 18:37
185463-002	Benzene	GC05	H	03/11/06 18:37
185463-002	Toluene	GC05	H	03/11/06 18:37
185463-002	Ethylbenzene	GC05	H	03/11/06 18:37
185463-002	Trifluorotoluene (FID)	GC05	G	03/11/06 18:37
185463-002	Bromofluorobenzene (FID)	GC05	G	03/11/06 18:37
185463-002	Trifluorotoluene (PID)	GC05	H	03/11/06 18:37
185463-002	Bromofluorobenzene (PID)	GC05	H	03/11/06 18:37
185463-002	Xylene (total)	GC05	H	03/11/06 18:37
185463-003	Gasoline C7-C12	GC05	G	03/11/06 19:09
185463-003	MTBE	GC05	H	03/11/06 19:09
185463-003	Benzene	GC05	H	03/11/06 19:09
185463-003	Toluene	GC05	H	03/11/06 19:09
185463-003	Ethylbenzene	GC05	H	03/11/06 19:09
185463-003	Trifluorotoluene (FID)	GC05	G	03/11/06 19:09
185463-003	Bromofluorobenzene (FID)	GC05	G	03/11/06 19:09
185463-003	Trifluorotoluene (PID)	GC05	H	03/11/06 19:09
185463-003	Bromofluorobenzene (PID)	GC05	H	03/11/06 19:09
185463-003	Xylene (total)	GC05	H	03/11/06 19:09
185463-004	Gasoline C7-C12	GC05	G	03/11/06 20:44
185463-004	MTBE	GC05	H	03/11/06 20:44
185463-004	Benzene	GC05	H	03/11/06 20:44
185463-004	Toluene	GC05	H	03/11/06 20:44
185463-004	Ethylbenzene	GC05	H	03/11/06 20:44
185463-004	Trifluorotoluene (FID)	GC05	G	03/11/06 20:44
185463-004	Bromofluorobenzene (FID)	GC05	G	03/11/06 20:44
185463-004	Trifluorotoluene (PID)	GC05	H	03/11/06 20:44
185463-004	Bromofluorobenzene (PID)	GC05	H	03/11/06 20:44
185463-004	Xylene (total)	GC05	H	03/11/06 20:44
185463-005	Gasoline C7-C12	GC05	G	03/11/06 21:15
185463-005	MTBE	GC05	H	03/11/06 21:15
185463-005	Benzene	GC05	H	03/11/06 21:15
185463-005	Toluene	GC05	H	03/11/06 21:15
185463-005	Ethylbenzene	GC05	H	03/11/06 21:15
185463-005	Trifluorotoluene (FID)	GC05	G	03/11/06 21:15
185463-005	Bromofluorobenzene (FID)	GC05	G	03/11/06 21:15
185463-005	Trifluorotoluene (PID)	GC05	H	03/11/06 21:15
185463-005	Bromofluorobenzene (PID)	GC05	H	03/11/06 21:15
185463-005	Xylene (total)	GC05	H	03/11/06 21:15
QC331078	Gasoline C7-C12	GC05	G	03/11/06 16:29
QC331078	MTBE	GC05	H	03/11/06 16:29
QC331078	Benzene	GC05	H	03/11/06 16:29
QC331078	Toluene	GC05	H	03/11/06 16:29
QC331078	Ethylbenzene	GC05	H	03/11/06 16:29
QC331078	Trifluorotoluene (FID)	GC05	G	03/11/06 16:29

REPORTING SUMMARY FOR 185463 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC331078	Bromofluorobenzene (FID)	GC05	G	03/11/06 16:29
QC331078	Trifluorotoluene (PID)	GC05	H	03/11/06 16:29
QC331078	Bromofluorobenzene (PID)	GC05	H	03/11/06 16:29
QC331078	Xylene (total)	GC05	H	03/11/06 16:29
QC331079	MTBE	GC05	H	03/11/06 15:25
QC331079	Benzene	GC05	H	03/11/06 15:25
QC331079	Toluene	GC05	H	03/11/06 15:25
QC331079	Ethylbenzene	GC05	H	03/11/06 15:25
QC331079	Trifluorotoluene (PID)	GC05	H	03/11/06 15:25
QC331079	Bromofluorobenzene (PID)	GC05	H	03/11/06 15:25
QC331080	Gasoline C7-C12	GC05	G	03/11/06 15:57
QC331080	Trifluorotoluene (FID)	GC05	G	03/11/06 15:57
QC331080	Bromofluorobenzene (FID)	GC05	G	03/11/06 15:57
QC331108	Gasoline C7-C12	GC05	G	03/11/06 19:41
QC331108	Trifluorotoluene (FID)	GC05	G	03/11/06 19:41
QC331108	Bromofluorobenzene (FID)	GC05	G	03/11/06 19:41
QC331109	Gasoline C7-C12	GC05	G	03/11/06 20:13
QC331109	Trifluorotoluene (FID)	GC05	G	03/11/06 20:13
QC331109	Bromofluorobenzene (FID)	GC05	G	03/11/06 20:13

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111211
Date Started: 11-MAR-2006
Batched by : Thelma Perez

Analysis : N/A
Bgroup : TVH
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185457-010			Treadwell & Rollo	Water	TVH	22-MAR-2006
185457-019			Treadwell & Rollo	Water	TVH	22-MAR-2006
185463-001			Treadwell & Rollo	Water	TVH	22-MAR-2006
185463-002			Treadwell & Rollo	Water	MBTXE, TVH	22-MAR-2006
185463-003			Treadwell & Rollo	Water	MBTXE, TVH	22-MAR-2006
185463-004			Treadwell & Rollo	Water	MBTXE, TVH	22-MAR-2006
185463-005			Treadwell & Rollo	Water	MBTXE, TVH	22-MAR-2006
185467-001			Questa Engineering	Water	MBTXE, TVH	16-MAR-2006
185467-002			Questa Engineering	Water	MBTXE, TVH	16-MAR-2006
185467-003			Questa Engineering	Water	MBTXE, TVH	16-MAR-2006
185467-004			Questa Engineering	Water	MBTXE, TVH	16-MAR-2006
185472-005			Geomatrix Consulta	Water	TVH	16-MAR-2006
185472-006			Geomatrix Consulta	Water	TVH	16-MAR-2006
185472-007			Geomatrix Consulta	Water	TVH	16-MAR-2006
185472-008			Geomatrix Consulta	Water	TVH	16-MAR-2006
QC331078	BLANK			Water		
QC331079	LCS			Water		
QC331080	LCS			Water		
QC331108	MS	of 185463-003		Water		
QC331109	MSD	of 185463-003		Water		

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water
As of 04/29/06

Analyte	Units	GC19 X	GC04 A	GC04 J	GC05 G	GC07 A
Gasoline C6-C10	ug/L	21	6.7	6.2	4.8	10
Gasoline C6-C12	ug/L	21	5.5	6.8	4.5	14
Gasoline C7-C12	ug/L	27	4.8	7.2	4.2	15
JP-4 C7-C12	ug/L	4.6		12	9.9	19
Gasoline C6-C8	ug/L					7.0
Gasoline C8-C10	ug/L					12
Trifluorotoluene (FID)	ug/L		3.9			9.8
Bromofluorobenzene (FID)	ug/L		5.2			7.5

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8021B Water
As of 04/29/06

Analyte	Units	GC19 Y	GC19 Z	GC04 K	GC04 L	GC05 H	GC05 I	GC07 B	GC07 C
MTBE	ug/L	0.49	0.18	0.45	0.83	0.30	0.62	0.35	0.23
Benzene	ug/L	0.073	0.033	0.094	0.16	0.034	0.057	0.23	0.035
Toluene	ug/L	0.13	0.025	0.14	0.11	0.048	0.15	0.069	0.024
Ethylbenzene	ug/L	0.14	0.024	0.038	0.12	0.036	0.17	0.084	0.056
m,p-Xylenes	ug/L	0.13	0.039	0.10	0.21	0.030	0.17	0.090	0.027
o-Xylene	ug/L	0.15	0.015	0.12	0.10	0.083	0.19	0.13	0.040

TOTAL EXTRACTABLE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/10/06
Units:	ug/L	Received:	03/10/06
Diln Fac:	1.000		

Field ID:	NKGW03	Prepared:	03/20/06
Type:	SAMPLE	Analyzed:	03/21/06
Lab ID:	185463-001	Cleanup Method:	EPA 3630C
Batch#:	111477		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	104	65-135

Field ID:	1221GW103	Prepared:	03/20/06
Type:	SAMPLE	Analyzed:	03/21/06
Lab ID:	185463-002	Cleanup Method:	EPA 3630C
Batch#:	111477		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	94	65-135

Field ID:	1260GW101	Prepared:	03/21/06
Type:	SAMPLE	Analyzed:	03/22/06
Lab ID:	185463-003	Cleanup Method:	EPA 3630C
Batch#:	111513		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	100	65-135

Field ID:	1260GW103	Prepared:	03/21/06
Type:	SAMPLE	Analyzed:	03/22/06
Lab ID:	185463-004	Cleanup Method:	EPA 3630C
Batch#:	111513		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	91	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/10/06
Units:	ug/L	Received:	03/10/06
Diln Fac:	1.000		

Field ID:	1221GW104	Prepared:	03/21/06
Type:	SAMPLE	Analyzed:	03/23/06
Lab ID:	185463-005	Cleanup Method:	EPA 3630C
Batch#:	111513		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	91	65-135

Type:	BLANK	Prepared:	03/20/06
Lab ID:	QC332216	Analyzed:	03/21/06
Batch#:	111477	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	97	65-135

Type:	BLANK	Prepared:	03/21/06
Lab ID:	QC332369	Analyzed:	03/22/06
Batch#:	111513	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	73	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	111477
Units:	ug/L	Prepared:	03/20/06
Diln Fac:	1.000	Analyzed:	03/21/06

Type: BS Cleanup Method: EPA 3630C
Lab ID: QC332217

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	2,500	2,280	91	65-135

Surrogate	%REC	Limits
Hexacosane	91	65-135

Type: BSD Cleanup Method: EPA 3630C
Lab ID: QC332218

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,297	92	65-135	1	35

Surrogate	%REC	Limits
Hexacosane	90	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	111513
Units:	ug/L	Prepared:	03/21/06
Diln Fac:	1.000	Analyzed:	03/23/06

Type: BS Cleanup Method: EPA 3630C
Lab ID: QC332370

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	2,500	2,295	92	65-135

Surrogate	%REC	Limits
Hexacosane	100	65-135

Type: BSD Cleanup Method: EPA 3630C
Lab ID: QC332371

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,238	90	65-135	3	35

Surrogate	%REC	Limits
Hexacosane	98	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185463 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 115446255002
Units : mg/L

Name : DIESEL
Date : 05-NOV-2005 23:53
X Axis : R

Reviewer: RH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	309a011	115446255011	dsl_10	05-NOV-2005 23:53	S1732
L2	309a013	115446255013	dsl_250	06-NOV-2005 00:49	S1734
L3	309a014	115446255014	dsl_500	06-NOV-2005 01:17	S1735
L4	309a015	115446255015	dsl_1000	06-NOV-2005 01:45	S1736
L5	309a016	115446255016	dsl_2500	06-NOV-2005 02:12	S1737
L6	309a017	115446255017	dsl_5000	06-NOV-2005 02:40	S1731
L7	309a039	115446255039	dsl_100	06-NOV-2005 22:23	S1733

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	66564	67471	67989	68804	69120	69411	70464	AVRG		1.46E-5		68546	2	0.995	20	

40

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

115446255002

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185463 GCSV Water
EPA 8015B

Inst : GC11A
Calnum : 115446255002

Name : DIESEL
Cal Date: 05-NOV-2005

ICV 115446255040 (309a040 06-NOV-2005) stds: S1178

Analyte	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	500.0	498.6	mg/L	0	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185463 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 116049801004
Units : mg/L

Date : 04-FEB-2006 00:18
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	034a023	116049801023	mo_50	04-FEB-2006 00:18	S2118
L2	034a024	116049801024	mo_250	04-FEB-2006 00:46	S2119
L3	034a025	116049801025	mo_500	04-FEB-2006 01:14	S2120
L4	034a026	116049801026	mo_1000	04-FEB-2006 01:42	S2121
L5	034a027	116049801027	mo_2500	04-FEB-2006 02:10	S2122
L6	034a028	116049801028	mo_5000	04-FEB-2006 02:39	S2117

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	40103	42997	43448	44594	44247	45696	AVRG		2.30E-5		43514	4	0.995	20	

42

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185463 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 115446255001
Units : mg/L

Name : Hexacosane
Date : 05-NOV-2005 21:35
X Axis : R

Reviewer: RH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	309a006	115446255006	hex_5	05-NOV-2005 21:35	S1469
L2	309a007	115446255007	hex_10	05-NOV-2005 22:02	S1470
L3	309a008	115446255008	hex_25	05-NOV-2005 22:30	S1471
L4	309a009	115446255009	hex_50	05-NOV-2005 22:58	S1472
L5	309a010	115446255010	hex_75	05-NOV-2005 23:25	S1473

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	78300	78621	78154	81971	77951	AVRG		1.27E-5		78999	2	0.995	20	

43

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185463 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166117087001
Units : mg/L

Date : 22-MAR-2006 12:39
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	081b006	166117087006	dsl_10	22-MAR-2006 12:39	S2961
L2	081b007	166117087007	dsl_100	22-MAR-2006 13:07	S2938
L3	081b008	166117087008	dsl_250	22-MAR-2006 13:34	S2939
L4	081b009	166117087009	dsl_500	22-MAR-2006 14:02	S2940
L5	081b010	166117087010	dsl_1000	22-MAR-2006 14:30	S2941
L6	081b011	166117087011	dsl_2500	22-MAR-2006 14:57	S2942
L7	081b012	166117087012	dsl_5000	22-MAR-2006 15:25	S2936

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	60107	59785	55253	54313	53973	54874	53381	AVRG		1.79E-5		55955	5	0.995	20	

44

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

166117087001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185463 GCSV Water
EPA 8015B

Inst : GC15B
Calnum : 166117087001 Cal Date: 22-MAR-2006

ICV 166117087014 (081b014 22-MAR-2006) stds: S2708

Analyte	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	500.0	480.4	mg/L	-4	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185463 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166115824002
Units : mg/L

Date : 21-MAR-2006 14:52
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	080b006	166115824006	mo_50	21-MAR-2006 14:52	S2118
L2	080b007	166115824007	mo_250	21-MAR-2006 15:20	S2119
L3	080b008	166115824008	mo_500	21-MAR-2006 15:49	S2120
L4	080b009	166115824009	mo_1000	21-MAR-2006 16:17	S2121
L5	080b010	166115824010	mo_2500	21-MAR-2006 16:46	S2122
L6	080b011	166115824011	mo_5000	21-MAR-2006 17:15	S2117

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	35689	35718	36071	34029	27094	20672	AVRG		3.17E-5		31546	20	0.995	20	

46

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

166115824002

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185463 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166114247001
Units : mg/L

Date : 20-MAR-2006 14:52
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	079b007	166114247007	hex_5	20-MAR-2006 14:52	S2694
L2	079b008	166114247008	hex_10	20-MAR-2006 15:20	S2695
L3	079b009	166114247009	hex_25	20-MAR-2006 15:49	S2696
L4	079b010	166114247010	hex_50	20-MAR-2006 16:17	S2697
L5	079b011	166114247011	hex_75	20-MAR-2006 16:45	S2698

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	64028	62636	61750	60993	60763	AVRG		1.61E-5		62034	2	0.995	20	

47

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

166114247001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185463 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176085452001
Units : mg/L

Date : 01-MAR-2006 07:43
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	059a013	176085452013	dsl_50	01-MAR-2006 07:43	S1732
L2	059a014	176085452014	dsl_100	01-MAR-2006 08:10	S1733
L3	059a015	176085452015	dsl_250	01-MAR-2006 08:37	S1734
L4	059a016	176085452016	dsl_500	01-MAR-2006 09:04	S1735
L5	059a017	176085452017	dsl_1000	01-MAR-2006 09:32	S1736
L6	059a018	176085452018	dsl_2500	01-MAR-2006 10:00	S1737
L7	059a019	176085452019	dsl_5000	01-MAR-2006 10:27	S1731

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	55630	52210	52572	55087	56497	58583	60304	AVRG		1.79E-5		55841	5	0.995	20	

48

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185463 GCSV Water
EPA 8015B

Inst : GC17A
Calnum : 176085452001 Cal Date: 01-MAR-2006

ICV 176085452021 (059a021 01-MAR-2006) stds: S2708

Analyte	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	500.0	454.9	mg/L	-9	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185463 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176093018001
Units : mg/L

Date : 05-MAR-2006 18:11
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	064a007	176093018007	mo_50	05-MAR-2006 18:11	S2118
L2	064a008	176093018008	mo_250	05-MAR-2006 18:38	S2119
L3	064a009	176093018009	mo_500	05-MAR-2006 19:05	S2120
L4	064a010	176093018010	mo_1000	05-MAR-2006 19:32	S2121
L5	064a011	176093018011	mo_2500	05-MAR-2006 20:00	S2122
L6	064a012	176093018012	mo_5000	05-MAR-2006 20:27	S2117

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	35446	41492	40972	42562	41512	41334	AVRG		2.47E-5		40553	6	0.995	20	

50

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

176093018001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185463 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176098515001
Units : mg/L

Name : hexagc17cal
Date : 09-MAR-2006 19:42
X Axis : R

Reviewer: CW
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	068a015	176098515015	hex_5	09-MAR-2006 19:42	S2694
L2	068a016	176098515016	hex_10	09-MAR-2006 20:09	S2695
L3	068a017	176098515017	hex_25	09-MAR-2006 20:37	S2696
L4	068a018	176098515018	hex_50	09-MAR-2006 21:04	S2697
L5	068a019	176098515019	hex_75	09-MAR-2006 21:31	S2698

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	81036	80318	79162	79599	78325	AVRG		1.25E-5		79688	1	0.995	20	

51

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION SUMMARY FOR 185463 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116114237059	21-MAR-2006 17:50	115446255002	05-NOV-2005	68546	61365	1000.0	895.24	mg/L	-10	15	
GC11A	A	116114237073	22-MAR-2006 00:50	115446255002	05-NOV-2005	68546	63520	500.00	463.34	mg/L	-7	15	
GC15B	B	166117087016	22-MAR-2006 17:17	166117087001	22-MAR-2006	55955	54229	500.00	484.57	mg/L	-3	15	
GC15B	B	166117087031	23-MAR-2006 00:52	166117087001	22-MAR-2006	55955	52139	1000.0	931.80	mg/L	-7	15	
GC15B	B	166118528003	23-MAR-2006 08:23	166117087001	22-MAR-2006	55955	47468	500.00	424.16	mg/L	-15	15	
GC15B	B	166118528011	23-MAR-2006 13:31	166117087001	22-MAR-2006	55955	53651	1000.0	958.82	mg/L	-4	15	
GC17A	A	176114438111	22-MAR-2006 17:04	176085452001	01-MAR-2006	55841	63329	500.00	567.05	mg/L	13	15	
GC17A	A	176114438126	23-MAR-2006 00:32	176085452001	01-MAR-2006	55841	64704	1000.0	1158.7	mg/L	**16**	15	c+ ***
GC17A	A	176114438141	23-MAR-2006 07:22	176085452001	01-MAR-2006	55841	57589	250.00	257.83	mg/L	3	15	

+=high bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 185463 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116114237057	21-MAR-2006 16:52	116049801004	04-FEB-2006	43514	40708	500.00	467.76	mg/L	-6	15	
GC11A	A	116114237072	22-MAR-2006 00:21	116049801004	04-FEB-2006	43514	40234	500.00	462.31	mg/L	-8	15	
GC15B	B	166117087017	22-MAR-2006 17:45	166115824002	21-MAR-2006	31546	31540	500.00	499.91	mg/L	0	15	
GC15B	B	166117087032	23-MAR-2006 01:20	166115824002	21-MAR-2006	31546	31883	500.00	505.34	mg/L	1	15	
GC17A	A	176114438112	22-MAR-2006 17:31	176093018001	05-MAR-2006	40553	38506	500.00	474.77	mg/L	-5	15	
GC17A	A	176114438127	23-MAR-2006 01:00	176093018001	05-MAR-2006	40553	38730	500.00	477.52	mg/L	-4	15	
GC17A	A	176114438142	23-MAR-2006 07:49	176093018001	05-MAR-2006	40553	38853	500.00	479.04	mg/L	-4	15	

CONTINUING CALIBRATION SUMMARY FOR 185463 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116114237057	21-MAR-2006 16:52	115446255001	05-NOV-2005	78999	70143	50.000	44.395	mg/L	-11	15	
GC11A	A	116114237072	22-MAR-2006 00:21	115446255001	05-NOV-2005	78999	70339	50.000	44.519	mg/L	-11	15	
GC15B	B	166117087016	22-MAR-2006 17:17	166114247001	20-MAR-2006	62034	64209	50.000	51.753	mg/L	4	15	
GC15B	B	166117087031	23-MAR-2006 00:52	166114247001	20-MAR-2006	62034	55482	50.000	44.719	mg/L	-11	15	
GC15B	B	166118528003	23-MAR-2006 08:23	166114247001	20-MAR-2006	62034	56974	50.000	45.921	mg/L	-8	15	
GC15B	B	166118528011	23-MAR-2006 13:31	166114247001	20-MAR-2006	62034	58497	50.000	47.149	mg/L	-6	15	
GC17A	A	176114438111	22-MAR-2006 17:04	176098515001	09-MAR-2006	79688	79555	50.000	49.917	mg/L	0	15	
GC17A	A	176114438126	23-MAR-2006 00:32	176098515001	09-MAR-2006	79688	72769	50.000	45.659	mg/L	-9	15	
GC17A	A	176114438141	23-MAR-2006 07:22	176098515001	09-MAR-2006	79688	71353	50.000	44.770	mg/L	-10	15	

SEQUENCE SUMMARY FOR 185463 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 115446255 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 05-NOV-2005
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
003	309a003	X	c12-60			05-NOV-2005 20:11	1.0						
004	309a004	X	c50			05-NOV-2005 20:39	1.0						
005	309a005	X	ib			05-NOV-2005 21:07	1.0						
006	309a006	ICAL	hex_5			05-NOV-2005 21:35	1.0					1	
007	309a007	ICAL	hex_10			05-NOV-2005 22:02	1.0					2	
008	309a008	ICAL	hex_25			05-NOV-2005 22:30	1.0					3	
009	309a009	ICAL	hex_50			05-NOV-2005 22:58	1.0					4	
010	309a010	ICAL	hex_75			05-NOV-2005 23:25	1.0					5	
011	309a011	ICAL	dsl_10			05-NOV-2005 23:53	1.0					6	
013	309a013	ICAL	dsl_250			06-NOV-2005 00:49	1.0					7	
014	309a014	ICAL	dsl_500			06-NOV-2005 01:17	1.0					8	
015	309a015	ICAL	dsl_1000			06-NOV-2005 01:45	1.0					9	
016	309a016	ICAL	dsl_2500			06-NOV-2005 02:12	1.0					10	
017	309a017	ICAL	dsl_5000			06-NOV-2005 02:40	1.0					11	
039	309a039	ICAL	dsl_100			06-NOV-2005 22:23	1.0					12	
040	309a040	ICV	dsl			06-NOV-2005 23:18	1.0		3			13	
041	309a041	ICAL	mo_50			06-NOV-2005 23:46	1.0					14	
042	309a042	ICAL	mo_250			07-NOV-2005 00:14	1.0					15	
043	309a043	ICAL	mo_500			07-NOV-2005 00:42	1.0					16	
044	309a044	ICAL	mo_1000			07-NOV-2005 01:10	1.0					17	
045	309a045	ICAL	mo_2500			07-NOV-2005 01:38	1.0					18	
046	309a046	ICAL	mo_5000			07-NOV-2005 02:06	1.0					19	

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Stds used: 1=S1469 2=S1470 3=S1471 4=S1472 5=S1473 6=S1732 7=S1734 8=S1735 9=S1736 10=S1737 11=S1731 12=S1733 13=S1178 14=S693 15=S694 16=S695 17=S696 18=S697 19=S691

SEQUENCE SUMMARY FOR 185463 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116049801 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 03-FEB-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	034a001	X	primer			03-FEB-2006 14:01	1.0							
002	034a002	X	ib			03-FEB-2006 14:29	1.0							
003	034a003	CCV	dsl_250			03-FEB-2006 14:57	1.0			3			1	
004	034a004	X	ib			03-FEB-2006 15:25	1.0							
005	034a005	CCV	mo_500			03-FEB-2006 15:53	1.0	6		3			2	
006	034a006	?SAMPLE	184620-007			03-FEB-2006 16:21	1.0							
007	034a007	?SAMPLE	184620-008			03-FEB-2006 16:49	1.0							
008	034a008	?SAMPLE	184620-009			03-FEB-2006 17:17	1.0							
009	034a009	?SAMPLE	184620-010			03-FEB-2006 17:45	1.0							
010	034a010	X	ib			03-FEB-2006 18:13	1.0							
011	034a011	?SAMPLE	184620-006			03-FEB-2006 18:41	1.0							
012	034a012	?SAMPLE	184620-004			03-FEB-2006 19:09	1.0							
013	034a013	?SAMPLE	184620-005			03-FEB-2006 19:37	1.0							
014	034a014	X	ib			03-FEB-2006 20:05	1.0							
015	034a015	?SAMPLE	184620-001			03-FEB-2006 20:33	1.0							
016	034a016	?SAMPLE	184620-002			03-FEB-2006 21:01	1.0							
017	034a017	?SAMPLE	184620-003			03-FEB-2006 21:29	1.0							
018	034a018	X	ib			03-FEB-2006 21:57	1.0							
019	034a019	CCV	dsl_500			03-FEB-2006 22:25	1.0						3	
020	034a020	X	ib			03-FEB-2006 22:54	1.0							
021	034a021	X	ib			03-FEB-2006 23:22	1.0							
022	034a022	X	ib			03-FEB-2006 23:50	1.0							
023	034a023	ICAL	mo_50			04-FEB-2006 00:18	1.0						4	
024	034a024	ICAL	mo_250			04-FEB-2006 00:46	1.0						5	
025	034a025	ICAL	mo_500			04-FEB-2006 01:14	1.0						6	
026	034a026	ICAL	mo_1000			04-FEB-2006 01:42	1.0						7	
027	034a027	ICAL	mo_2500			04-FEB-2006 02:10	1.0						8	
028	034a028	ICAL	mo_5000			04-FEB-2006 02:39	1.0						9	
029	034a029	X	ib			04-FEB-2006 03:07	1.0							

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Stds used: 1=S2505 2=S2577 3=S2504 4=S2118 5=S2119 6=S2120 7=S2121 8=S2122 9=S2117

SEQUENCE SUMMARY FOR 185463 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176085452 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 28-FEB-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	059a001	X	primer			28-FEB-2006 08:12	1.0							
002	059a002	X	primer			28-FEB-2006 11:01	1.0							
003	059a003	X	ib			28-FEB-2006 11:28	1.0							
004	059a004	CCV	S2662.dsl_50			28-FEB-2006 11:56	1.0							
005	059a005	CCV	mo_500			28-FEB-2006 12:23	1.0						1	
006	059a006	X	ccv			28-FEB-2006 14:08	1.0						1	
007	059a007	CCV	dsl_500			28-FEB-2006 16:04	1.0			3			2	
008	059a008	CCV	mo_500			28-FEB-2006 18:04	1.0	6		3			1	
009	059a009	X	ib			28-FEB-2006 22:27	1.0							
010	059a010	X	c 10-16			28-FEB-2006 22:54	20.0							
011	059a011	X	c 12-60			28-FEB-2006 23:21	1.0							
012	059a012	X	ib			01-MAR-2006 07:15	1.0							
013	059a013	ICAL	dsl_50			01-MAR-2006 07:43	1.0						3	
014	059a014	ICAL	dsl_100			01-MAR-2006 08:10	1.0						4	
015	059a015	ICAL	dsl_250			01-MAR-2006 08:37	1.0						5	
016	059a016	ICAL	dsl_500			01-MAR-2006 09:04	1.0						6	
017	059a017	ICAL	dsl_1000			01-MAR-2006 09:32	1.0						7	
018	059a018	ICAL	dsl_2500			01-MAR-2006 10:00	1.0						8	
019	059a019	ICAL	dsl_5000			01-MAR-2006 10:27	1.0						9	
020	059a020	X	ib			01-MAR-2006 10:54	1.0							
021	059a021	ICV	dsl_500			01-MAR-2006 11:22	1.0			3			10	
022	059a022	X	dsl_500			01-MAR-2006 11:49	1.0						10	
023	059a023	X	ib			01-MAR-2006 12:16	1.0							
024	059a024	ICAL	mo_50			01-MAR-2006 12:44	1.0						11	
025	059a025	ICAL	mo_250			01-MAR-2006 13:11	1.0						12	
026	059a026	ICAL	mo_500			01-MAR-2006 13:38	1.0						13	
027	059a027	ICAL	mo_1000			01-MAR-2006 14:06	1.0						14	
028	059a028	ICAL	mo_2500			01-MAR-2006 14:33	1.0						15	
029	059a029	ICAL	mo_5000			01-MAR-2006 15:01	1.0						16	
030	059a030	X	ib			01-MAR-2006 15:28	1.0							

Stds used: 1=S2741 2=S2662 3=S1732 4=S1733 5=S1734 6=S1735 7=S1736 8=S1737 9=S1731 10=S2708 11=S2118 12=S2119 13=S2120 14=S2121 15=S2122 16=S2117 17=S2694 18=S2695 19=S2696 20=S2697 21=S2698

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SEQUENCE SUMMARY FOR 185463 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176085452 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 28-FEB-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC SPK uL	VL	pH	Stds Used	>LR
031	059a031	ICAL	hex_5			01-MAR-2006 15:55	1.0				17	
032	059a032	ICAL	hex_10			01-MAR-2006 16:23	1.0				18	
033	059a033	ICAL	hex_25			01-MAR-2006 16:50	1.0				19	
034	059a034	ICAL	hex_50			01-MAR-2006 17:17	1.0				20	
035	059a035	ICAL	hex_75			01-MAR-2006 17:44	1.0				21	
036	059a036	X	ib			01-MAR-2006 18:11	1.0					

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Stds used: 1=S2741 2=S2662 3=S1732 4=S1733 5=S1734 6=S1735 7=S1736 8=S1737 9=S1731 10=S2708 11=S2118 12=S2119 13=S2120 14=S2121 15=S2122 16=S2117 17=S2694 18=S2695 19=S2696 20=S2697 21=S2698

SEQUENCE SUMMARY FOR 185463 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176093018 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 05-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	064a001	X	primer			05-MAR-2006 14:18	1.0					
002	064a002	X	ib			05-MAR-2006 14:45	1.0					
003	064a003	CCV	dsl_500			05-MAR-2006 15:13	1.0	1.0		3	1	
004	064a004	CCV	mo_500			05-MAR-2006 15:40	1.0	1.0	5	3	2	
005	064a005	CCV	bunk_1250			05-MAR-2006 16:07	1.0	1.0		3	3	
006	064a006	CCV	mo_500			05-MAR-2006 17:21	1.0	1.0	4	3	4	
007	064a007	ICAL	mo_50			05-MAR-2006 18:11	1.0	1.0			5	
008	064a008	ICAL	mo_250			05-MAR-2006 18:38	1.0	1.0			6	
009	064a009	ICAL	mo_500			05-MAR-2006 19:05	1.0	1.0			7	
010	064a010	ICAL	mo_1000			05-MAR-2006 19:32	1.0	1.0			8	
011	064a011	ICAL	mo_2500			05-MAR-2006 20:00	1.0	1.0			9	
012	064a012	ICAL	mo_5000			05-MAR-2006 20:27	1.0	1.0			10	
013	064a013	X	ib			05-MAR-2006 20:54	1.0					
014	064a014	X	ib			05-MAR-2006 21:21	1.0					
015	064a015	CCV	dsl_1000			05-MAR-2006 21:48	1.0				11	
016	064a016	CCV	mo_500			05-MAR-2006 22:16	1.0				4	
017	064a017	CCV	bunk_1250			05-MAR-2006 22:43	1.0				3	
018	064a018	X	xccv			05-MAR-2006 23:10	1.0				11	
019	064a019	BLANK	QC329822 S	110900	Water	05-MAR-2006 23:38	1.0					
020	064a020	BLANK	QC329951 S	110935	Soil	06-MAR-2006 00:05	1.0					
021	064a021	BLANK	QC330003 S	110946	Soil	06-MAR-2006 00:32	1.0					
022	064a022	LCS	QC329823 S	110900	Water	06-MAR-2006 00:59	1.0					
023	064a023	LCS	QC329952 S	110935	Soil	06-MAR-2006 01:27	1.0					
024	064a024	LCS	QC330004 S	110946	Soil	06-MAR-2006 01:55	1.0					
025	064a025	MS	QC329824	110900	Water	06-MAR-2006 02:22	1.0					
026	064a026	MSD	QC329825	110900	Water	06-MAR-2006 02:50	1.0					
027	064a027	MS	QC330005 S	110946	Soil	06-MAR-2006 03:17	2.0					
028	064a028	MSD	QC330006 S	110946	Soil	06-MAR-2006 03:44	2.0					
029	064a029	X	ib			06-MAR-2006 04:11	1.0					
030	064a030	CCV	dsl_250			06-MAR-2006 04:39	1.0				12	
031	064a031	CCV	mo_500			06-MAR-2006 05:06	1.0				4	

Stds used: 1=S2662 2=S2741 3=S2401 4=S2843 5=S2118 6=S2119 7=S2120 8=S2121 9=S2122 10=S2117 11=S2647 12=S2755

SEQUENCE SUMMARY FOR 185463 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176093018 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 05-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	064a032	CCV	bunk_1250			06-MAR-2006 05:33	1.0					3	
033	064a033	X	xccv			06-MAR-2006 06:00	1.0					12	
034	064a034	SAMPLE	185049-005	110845	Water	06-MAR-2006 06:28	1.0						
035	064a035	SAMPLE	185057-001	110845	Water	06-MAR-2006 06:55	1.0						
036	064a036	SAMPLE	185021-004	110845	Water	06-MAR-2006 07:33	1.0						
037	064a037	SAMPLE	185096-003	110851	Water	06-MAR-2006 08:01	1.0						
038	064a038	?SAMPLE	185095-003	110851		06-MAR-2006 08:28	1.0						
039	064a039	MSS	185082-015 S	110946	Soil	06-MAR-2006 08:56	2.0	0.1008	5		3		
040	064a040	?MS	QC329951	110935		06-MAR-2006 09:23	2.0						
041	064a041	?MSD	QC329952	110935		06-MAR-2006 09:50	2.0						
042	064a042	MS	QC329764	110886	Soil	06-MAR-2006 10:18	5.0						
043	064a043	?MSD	QC329764	110886		06-MAR-2006 10:45	5.0						
044	064a044	X	ib			06-MAR-2006 11:12	1.0						
045	064a045	X	ib			06-MAR-2006 11:40	1.0						
046	064a046	CCV	dsl_500			06-MAR-2006 12:07	1.0					2	
047	064a047	CCV	mo_500			06-MAR-2006 12:35	1.0					4	
048	064a048	CCV	bunk_1250			06-MAR-2006 13:02	1.0					3	
049	064a049	X	xccv			06-MAR-2006 13:29	1.0					2	

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Stds used: 1=S2662 2=S2741 3=S2401 4=S2843 5=S2118 6=S2119 7=S2120 8=S2121 9=S2122 10=S2117 11=S2647 12=S2755

SEQUENCE SUMMARY FOR 185463 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176098515 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 09-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	068a001	X	ib			09-MAR-2006 09:55	1.0					
002	068a002	?SAMPLE	185382-001			09-MAR-2006 10:22	10.0					
003	068a003	?SAMPLE	185382-002			09-MAR-2006 10:49	10.0					
004	068a004	?SAMPLE	185382-003			09-MAR-2006 11:17	10.0					
005	068a005	?SAMPLE	185382-004			09-MAR-2006 11:44	10.0					
006	068a006	?SAMPLE	185382-005			09-MAR-2006 12:12	10.0					
007	068a007	X	ib			09-MAR-2006 12:39	1.0					
008	068a008	X	mb fingerpri			09-MAR-2006 13:06	1.0					
009	068a009	CCV	jet_250			09-MAR-2006 13:34	1.0				1	
010	068a010	X	ib			09-MAR-2006 16:37	1.0					
011	068a011	CCV	dsl_500			09-MAR-2006 17:05	1.0	1.0		3	2	
012	068a012	CCV	mo_500			09-MAR-2006 17:32	1.0	1.0	2	3	3	
013	068a013	CCV	bunk_1250			09-MAR-2006 18:23	1.0	1.0		3	4	
014	068a014	X	ib			09-MAR-2006 19:15	1.0					
015	068a015	ICAL	hex_5			09-MAR-2006 19:42	1.0	1.0			5	
016	068a016	ICAL	hex_10			09-MAR-2006 20:09	1.0	1.0			6	
017	068a017	ICAL	hex_25			09-MAR-2006 20:37	1.0	1.0			7	
018	068a018	ICAL	hex_50			09-MAR-2006 21:04	1.0	1.0			8	
019	068a019	ICAL	hex_75			09-MAR-2006 21:31	1.0	1.0			9	
020	068a020	X	ib			09-MAR-2006 21:59	1.0					
021	068a021	CCV	dsl_1000			09-MAR-2006 22:26	1.0	1.0		3	10	
022	068a022	CCV	mo_500			09-MAR-2006 22:53	1.0	1.0	2	3	3	
023	068a023	X	dsl_1000			09-MAR-2006 23:20	1.0				10	
024	068a024	CCV	bunk_1250			09-MAR-2006 23:48	1.0	1.0		3	4	
025	068a025	SAMPLE	185247-003 S	111034	Water	10-MAR-2006 00:15	1.0	0.005		3		
026	068a026	SAMPLE	185271-008 S	111034	Water	10-MAR-2006 00:42	1.0	0.005		3		
027	068a027	SAMPLE	185334-001 S	111055	Water	10-MAR-2006 01:10	1.0	0.005		3		
028	068a028	SAMPLE	185271-009 S	111034	Water	10-MAR-2006 01:37	1.0	0.005		3		
029	068a029	SAMPLE	185271-010 S	111034	Water	10-MAR-2006 02:04	1.0	0.005		3		
030	068a030	SAMPLE	185350-001 S	111055	Water	10-MAR-2006 02:31	1.0	0.005		3		
031	068a031	SAMPLE	185333-014 S	111062	Soil	10-MAR-2006 02:58	1.0	0.1000		3		

Stds used: 1=S2432 2=S2871 3=S2741 4=S2872 5=S2694 6=S2695 7=S2696 8=S2697 9=S2698 10=S2885 11=S2755 12=S2843

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SEQUENCE SUMMARY FOR 185463 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176098515 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 09-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used >LR
032	068a032	SAMPLE	185247-005 S	111034	Water	10-MAR-2006 03:25	1.0	0.005	2	1	3	17:BUNKC:=50672.4
033	068a033	MS	QC330414 S	111050	Soil	10-MAR-2006 03:52	1.0	0.1009		1	3	3:BUNKC:=7224.34
034	068a034	MSD	QC330415 S	111050	Soil	10-MAR-2006 04:20	1.0	0.1001			3	1:BUNKC:=5003.11
035	068a035	CCV	dsl_250			10-MAR-2006 04:47	1.0	1.0			3	11
036	068a036	CCV	mo_500			10-MAR-2006 05:14	1.0	1.0	2		3	3
037	068a037	X	xccv			10-MAR-2006 05:42	1.0					11
038	068a038	CCV	bunk_1250			10-MAR-2006 06:09	1.0	1.0			3	4
039	068a039	SAMPLE	185333-022 S	111062	Soil	10-MAR-2006 06:36	1.0	0.1006			3	
040	068a040	SAMPLE	185333-023 S	111062	Soil	10-MAR-2006 07:03	1.0	0.1004			3	
041	068a041	SAMPLE	185211-001	111002	Water	10-MAR-2006 07:30	1.0	0.005			3	
042	068a042	SAMPLE	185211-002	111002	Water	10-MAR-2006 07:58	1.0	0.005			3	
043	068a043	SAMPLE	185229-030	111002	Water	10-MAR-2006 08:24	1.0	0.005		1	3	
044	068a044	SAMPLE	185229-031	111002	Water	10-MAR-2006 08:52	1.0	0.005			3	
045	068a045	SAMPLE	185229-033	111002	Water	10-MAR-2006 09:19	1.0	0.005			3	
046	068a046	SAMPLE	185279-001	111034	Water	10-MAR-2006 09:46	1.0	0.005	1		3	1:HXCS=104.620
047	068a047	SAMPLE	185339-001	111055	Water	10-MAR-2006 10:13	1.0	0.005			3	
048	068a048	SAMPLE	185339-002	111055	Water	10-MAR-2006 10:40	5.0	0.005			3	
049	068a049	CCV	dsl_500			10-MAR-2006 11:08	1.0	1.0			3	2
050	068a050	CCV	mo_500			10-MAR-2006 11:36	1.0	1.0	2		3	12
051	068a051	X	dsl_500			10-MAR-2006 12:03	1.0					2
052	068a052	CCV	bunk_1250			10-MAR-2006 12:30	1.0	1.0			3	4

Stds used: 1=S2432 2=S2871 3=S2741 4=S2872 5=S2694 6=S2695 7=S2696 8=S2697 9=S2698 10=S2885 11=S2755 12=S2843

SEQUENCE SUMMARY FOR 185463 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166114247 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	079b001	X	primer			20-MAR-2006 08:07	1.0					
002	079b002	X	ib			20-MAR-2006 08:34	1.0					
003	079b003	CCV	dsl_500			20-MAR-2006 09:02	1.0	1.0		3	1	
004	079b004	CCV	mo_500			20-MAR-2006 11:26	1.0				2	
005	079b005	CCV	dsl_500			20-MAR-2006 11:53	1.0				1	
006	079b006	X	ib			20-MAR-2006 14:24	1.0					
007	079b007	ICAL	hex_5			20-MAR-2006 14:52	1.0	1.0			3	
008	079b008	ICAL	hex_10			20-MAR-2006 15:20	1.0	1.0			4	
009	079b009	ICAL	hex_25			20-MAR-2006 15:49	1.0	1.0			5	
010	079b010	ICAL	hex_50			20-MAR-2006 16:17	1.0	1.0			6	
011	079b011	ICAL	hex_75			20-MAR-2006 16:45	1.0	1.0			7	
012	079b012	CCV	dsl_1000			20-MAR-2006 17:14	1.0	1.0		3	8	
013	079b013	CCV	mo_500			20-MAR-2006 17:42	1.0	1.0		3	2	
014	079b014	SAMPLE	185385-001 S	111346	Water	20-MAR-2006 18:23	1.0	0.005		3		
015	079b015	SAMPLE	185385-002 S	111346	Water	20-MAR-2006 18:52	1.0	0.005		3		
016	079b016	SAMPLE	185385-003 S	111346	Water	20-MAR-2006 19:20	1.0	0.005		3		
017	079b017	SAMPLE	185385-004 S	111346	Water	20-MAR-2006 19:48	1.0	0.005		3		
018	079b018	SAMPLE	185385-005 S	111346	Water	20-MAR-2006 20:16	1.0	0.005		3		
019	079b019	X	ib			20-MAR-2006 20:45	1.0					
020	079b020	SAMPLE	185385-006 S	111346	Water	20-MAR-2006 21:13	1.0	0.005		3		
021	079b021	SAMPLE	185385-007 S	111346	Water	20-MAR-2006 21:41	1.0	0.005		3		
022	079b022	SAMPLE	185385-008 S	111346	Water	20-MAR-2006 22:09	1.0	0.005		3		
023	079b023	SAMPLE	185385-009 S	111346	Water	20-MAR-2006 22:37	1.0	0.005		3		
024	079b024	SAMPLE	185385-011 S	111346	Water	20-MAR-2006 23:05	1.0	0.005		3		
025	079b025	X	ib			20-MAR-2006 23:33	1.0					
026	079b026	X	ib			21-MAR-2006 00:01	1.0					
027	079b027	CCV	dsl_250			21-MAR-2006 00:29	1.0	1.0		3	9	
028	079b028	CCV	mo_500			21-MAR-2006 00:57	1.0	1.0	3	3	2	
029	079b029	X	ccv			21-MAR-2006 01:25	1.0				2	
030	079b030	X	ccv			21-MAR-2006 01:52	1.0				9	
031	079b031	SAMPLE	185414-001 S	111437	Water	21-MAR-2006 02:20	1.0	0.005		3		

Stds used: 1=S2871 2=S2843 3=S2694 4=S2695 5=S2696 6=S2697 7=S2698 8=S2885 9=S2755

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SEQUENCE SUMMARY FOR 185463 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166114247 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	079b032	SAMPLE	185525-004 S	111348	Water	21-MAR-2006 02:48	1.0	0.005		3		
033	079b033	SAMPLE	185525-001 S	111348	Water	21-MAR-2006 03:15	1.0	0.005		3		
034	079b034	SAMPLE	185525-005 S	111348	Water	21-MAR-2006 03:43	1.0	0.005		3		
035	079b035	SAMPLE	185525-008 S	111348	Water	21-MAR-2006 04:11	1.0	0.005		3		
036	079b036	SAMPLE	185525-011 S	111348	Water	21-MAR-2006 04:38	1.0	0.005		3		
037	079b037	SAMPLE	185525-007 S	111348	Water	21-MAR-2006 05:06	1.0	0.005		3		
038	079b038	SAMPLE	185525-010 S	111348	Water	21-MAR-2006 05:34	1.0	0.005		3		
039	079b039	SAMPLE	185525-012 S	111348	Water	21-MAR-2006 06:02	1.0	0.005		3		
040	079b040	X	ib			21-MAR-2006 06:30	1.0					
041	079b041	CCV	dsl_1000			21-MAR-2006 06:57	1.0	1.0	7	3	8	
042	079b042	CCV	mo_500			21-MAR-2006 07:25	1.0	1.0	4	3	2	
043	079b043	X	ccv			21-MAR-2006 07:53	1.0				2	
044	079b044	X	ccv			21-MAR-2006 08:20	1.0				8	

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Stds used: 1=S2871 2=S2843 3=S2694 4=S2695 5=S2696 6=S2697 7=S2698 8=S2885 9=S2755

SEQUENCE SUMMARY FOR 185463 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166115824 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 21-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	080b001	ICAL	dsl_10			21-MAR-2006 10:24	1.0					1	
002	080b002	X	ib			21-MAR-2006 11:50	1.0						
003	080b003	CCV	dsl_500			21-MAR-2006 12:18	1.0	1.0			3	2	
004	080b004	CCV	mo_500			21-MAR-2006 12:46	1.0	1.0	2		3	3	
005	080b005	X	ib			21-MAR-2006 14:24	1.0						
006	080b006	ICAL	mo_50			21-MAR-2006 14:52	1.0	1.0				4	
007	080b007	ICAL	mo_250			21-MAR-2006 15:20	1.0	1.0				5	
008	080b008	ICAL	mo_500			21-MAR-2006 15:49	1.0	1.0				6	
009	080b009	ICAL	mo_1000			21-MAR-2006 16:17	1.0	1.0				7	
010	080b010	ICAL	mo_2500			21-MAR-2006 16:46	1.0	1.0				8	
011	080b011	ICAL	mo_5000			21-MAR-2006 17:15	1.0	1.0				9	
012	080b012	X	ib			21-MAR-2006 17:52	1.0						
013	080b013	CCV	dsl_1000			21-MAR-2006 18:21	1.0	1.0			3	10	
014	080b014	X	mo_500			21-MAR-2006 18:49	1.0	1.0	3		3	3	
015	080b015	CCV	mo_500			21-MAR-2006 19:27	1.0	1.0	2		3	11	
016	080b016	SAMPLE	185580-002	111477	Water	21-MAR-2006 21:34	1.0	0.005			3		
017	080b017	SAMPLE	185580-010	111477	Water	21-MAR-2006 22:02	1.0	0.005			3		
018	080b018	SAMPLE	185457-011 S	111478	Water	21-MAR-2006 22:30	1.0	0.005			3		
019	080b019	SAMPLE	185457-012 S	111478	Water	21-MAR-2006 22:58	1.0	0.005			3		
020	080b020	SAMPLE	185457-013 S	111478	Water	21-MAR-2006 23:26	1.0	0.005			3		
021	080b021	SAMPLE	185457-014 S	111478	Water	21-MAR-2006 23:54	1.0	0.005			3		
022	080b022	MSS	185457-016 S	111478	Water	22-MAR-2006 00:22	1.0	0.005	8		3		
023	080b023	SAMPLE	185457-017 S	111478	Water	22-MAR-2006 00:50	1.0	0.005			3		
024	080b024	SAMPLE	185457-019 S	111478	Water	22-MAR-2006 01:18	1.0	0.005			3		
025	080b025	MSS	185457-020 S	111478	Water	22-MAR-2006 01:46	1.0	0.005	8		3		
026	080b026	X	ib			22-MAR-2006 02:14	1.0						
027	080b027	CCV	dsl_250			22-MAR-2006 02:41	1.0	1.0			3	12	
028	080b028	CCV	mo_500			22-MAR-2006 03:09	1.0	1.0	2		3	13	
029	080b029	X	ccv			22-MAR-2006 03:37	1.0					12	
030	080b030	X	ccv			22-MAR-2006 04:05	1.0					13	

Stds used: 1=S2964 2=S2871 3=S2843 4=S2118 5=S2119 6=S2120 7=S2121 8=S2122 9=S2117 10=S2885 11=S2972 12=S2755 13=S2971

SEQUENCE SUMMARY FOR 185463 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166117087 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	081b001	X	primer			22-MAR-2006 07:27	1.0					
002	081b002	X	ib			22-MAR-2006 07:55	1.0					
003	081b003	CCV	dsl_500			22-MAR-2006 08:27	1.0	1.0	6	3	1	
004	081b004	CCV	mo_500			22-MAR-2006 08:55	1.0	1.0	2	3	2	
005	081b005	X	ib			22-MAR-2006 12:12	1.0					
006	081b006	ICAL	dsl_10			22-MAR-2006 12:39	1.0	1.0			3	
007	081b007	ICAL	dsl_100			22-MAR-2006 13:07	1.0	1.0			4	
008	081b008	ICAL	dsl_250			22-MAR-2006 13:34	1.0	1.0			5	
009	081b009	ICAL	dsl_500			22-MAR-2006 14:02	1.0	1.0			6	
010	081b010	ICAL	dsl_1000			22-MAR-2006 14:30	1.0	1.0			7	
011	081b011	ICAL	dsl_2500			22-MAR-2006 14:57	1.0	1.0			8	
012	081b012	ICAL	dsl_5000			22-MAR-2006 15:25	1.0	1.0			9	
013	081b013	X	ib			22-MAR-2006 15:53	1.0					
014	081b014	ICV	dsl_500			22-MAR-2006 16:21	1.0	1.0		3	10	
015	081b015	X	ib			22-MAR-2006 16:49	1.0					
016	081b016	CCV	dsl_500			22-MAR-2006 17:17	1.0	1.0		3	1	
017	081b017	CCV	mo_500			22-MAR-2006 17:45	1.0	1.0	2	3	2	
018	081b018	CCV	ker_250			22-MAR-2006 18:43	1.0	1.0		3	11	
019	081b019	LCS	QC332247 S	111483	Soil	22-MAR-2006 19:18	1.0	0.09921		3		
020	081b020	BLANK	QC332246 S	111483	Soil	22-MAR-2006 19:45	1.0	0.1007	7	3		
021	081b021	MSS	185620-003 S	111483	Soil	22-MAR-2006 20:13	1.0	0.1001	9	3		
022	081b022	MS	QC332248 S	111483	Soil	22-MAR-2006 20:41	1.0	0.1006		3		
023	081b023	MSD	QC332249 S	111483	Soil	22-MAR-2006 21:09	1.0	0.1004		3		
024	081b024	X	ib			22-MAR-2006 21:37	1.0					
025	081b025	SAMPLE	185463-003 S	111513	Water	22-MAR-2006 22:05	1.0	0.005		3		
026	081b026	SAMPLE	185463-004 S	111513	Water	22-MAR-2006 22:33	1.0	0.005		3		
027	081b027	SAMPLE	185639-002	111483	Soil	22-MAR-2006 23:01	1.0	0.1002		3		
028	081b028	SAMPLE	185640-001	111483	Soil	22-MAR-2006 23:29	3.0	0.09974	3	3		19:BUNKC:=35667.6
029	081b029	SAMPLE	185640-002	111483	Soil	22-MAR-2006 23:57	20.0	0.2001	2	3		12:BUNKC:=30917.1
030	081b030	X	ib			23-MAR-2006 00:24	1.0					
031	081b031	CCV	dsl_1000			23-MAR-2006 00:52	1.0	1.0		3	12	

Stds used: 1=S2871 2=S2971 3=S2961 4=S2938 5=S2939 6=S2940 7=S2941 8=S2942 9=S2936 10=S2708 11=S2806 12=S2885

SEQUENCE SUMMARY FOR 185463 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166117087 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	081b032	CCV	mo_500			23-MAR-2006 01:20	1.0	1.0	2		3	2	
033	081b033	X	ccv			23-MAR-2006 01:48	1.0					12	
034	081b034	CCV	ker_250			23-MAR-2006 02:16	1.0	1.0			3	11	

Stds used: 1=S2871 2=S2971 3=S2961 4=S2938 5=S2939 6=S2940 7=S2941 8=S2942 9=S2936 10=S2708 11=S2806 12=S2885

SEQUENCE SUMMARY FOR 185463 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166118528 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 23-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	082b001	X	primer			23-MAR-2006 07:28	1.0					
002	082b002	X	ib			23-MAR-2006 07:56	1.0					
003	082b003	CCV	dsl_500			23-MAR-2006 08:23	1.0	1.0	1	3	1	
004	082b004	CCV	mo_500			23-MAR-2006 08:51	1.0	1.0	2	3	2	
005	082b005	CCV	ker_250			23-MAR-2006 10:42	1.0	1.0		3	3	
006	082b006	BS	QC332370 S	111513	Water	23-MAR-2006 11:12	1.0	0.005		3		
007	082b007	BSD	QC332371 S	111513	Water	23-MAR-2006 11:40	1.0	0.005		3		
008	082b008	SAMPLE	185640-001	111483	Soil	23-MAR-2006 12:08	20.0	0.09974		3		1:BUNKC:=6756.17
009	082b009	SAMPLE	185640-002	111483	Soil	23-MAR-2006 12:35	100.0	0.2001		3		1:BUNKC:=6888.39
010	082b010	X	ib			23-MAR-2006 13:03	1.0					
011	082b011	CCV	dsl_1000			23-MAR-2006 13:31	1.0	1.0		3	4	
012	082b012	CCV	mo_500			23-MAR-2006 13:58	1.0	1.0	2	3	2	
013	082b013	CCV	ker_250			23-MAR-2006 14:26	1.0	1.0		3	3	

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Stds used: 1=S2871 2=S2971 3=S2806 4=S2885

SEQUENCE SUMMARY FOR 185463 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116114237 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	079a001	X	primer			20-MAR-2006 07:57	1.0					
002	079a002	X	ib			20-MAR-2006 08:24	1.0					
003	079a003	CCV	mo_500			20-MAR-2006 08:52	1.0	1.0		3	1	
004	079a004	CCV	dsl_500			20-MAR-2006 09:20	1.0	1.0		3	2	
005	079a005	SAMPLE	185607-006	111437	Water	20-MAR-2006 09:54	1.0	0.005		3		
006	079a006	SAMPLE	185608-006	111437	Water	20-MAR-2006 10:22	1.0	0.005		3		
007	079a007	SAMPLE	185611-001	111434	Soil	20-MAR-2006 10:50	1.0	0.09923		3		
008	079a008	X	ib			20-MAR-2006 11:19	1.0					
009	079a009	LCS	QC332045 S	111434	Soil	20-MAR-2006 11:47	1.0	0.1002		3		
010	079a010	BS	QC332063 S	111437	Water	20-MAR-2006 12:15	1.0	0.005		3		
011	079a011	BSD	QC332064 S	111437	Water	20-MAR-2006 12:44	1.0	0.005		3		
012	079a012	BLANK	QC332062 S	111437	Water	20-MAR-2006 13:12	1.0	0.005	7	3		
013	079a013	BLANK	QC332044 S	111434	Soil	20-MAR-2006 13:40	1.0	0.101	7	3		
014	079a014	SAMPLE	185607-003	111429	Soil	20-MAR-2006 14:09	2.0	0.09964		3		
015	079a015	SAMPLE	185607-004	111429	Soil	20-MAR-2006 14:37	2.0	0.1002		3		
016	079a016	X	dsl_1000			20-MAR-2006 15:06	1.0	1.0		3	3	
017	079a017	CCV	mo_500			20-MAR-2006 15:34	1.0	1.0		3	1	
018	079a018	CCV	dsl_1000			20-MAR-2006 16:13	1.0	1.0		3	3	
019	079a019	SAMPLE	185607-005	111429	Soil	20-MAR-2006 16:41	1.0	0.1000		3		
020	079a020	SAMPLE	185607-001	111429	Soil	20-MAR-2006 17:10	1.0	0.0998		3		
021	079a021	SAMPLE	185607-002	111429	Soil	20-MAR-2006 17:39	2.0	0.1005		3		
022	079a022	MSS	185608-001	111429	Soil	20-MAR-2006 18:07	1.0	0.1009	8	3		
023	079a023	SAMPLE	185608-003	111429	Soil	20-MAR-2006 18:36	1.0	0.09921		3		
024	079a024	X	ib			20-MAR-2006 19:05	1.0					
025	079a025	CCV	mo_500			20-MAR-2006 19:33	1.0	1.0		3	1	
026	079a026	CCV	dsl_250			20-MAR-2006 20:02	1.0	1.0	1	3	4	
027	079a027	SAMPLE	185381-014 S	111387	Water	20-MAR-2006 21:03	1.0	0.005		3		
028	079a028	SAMPLE	185414-010 S	111437	Water	20-MAR-2006 21:33	1.0	0.005		3		
029	079a029	SAMPLE	185414-009 S	111437	Water	20-MAR-2006 22:01	1.0	0.005		3		
030	079a030	SAMPLE	185414-008 S	111437	Water	20-MAR-2006 22:30	1.0	0.005		3		
031	079a031	SAMPLE	185414-007 S	111437	Water	20-MAR-2006 22:58	1.0	0.005		3		

Stds used: 1=S2843 2=S2871 3=S2885 4=S2755 5=S2964 6=S2971 7=S2845

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SEQUENCE SUMMARY FOR 185463 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116114237 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	079a032	SAMPLE	185414-006 S	111437	Water	20-MAR-2006 23:26	1.0	0.005		3		
033	079a033	SAMPLE	185414-005 S	111437	Water	20-MAR-2006 23:54	1.0	0.005		3		
034	079a034	SAMPLE	185414-004 S	111437	Water	21-MAR-2006 00:22	1.0	0.005		3		
035	079a035	SAMPLE	185414-003 S	111437	Water	21-MAR-2006 00:50	1.0	0.005		3		
036	079a036	SAMPLE	185414-002 S	111437	Water	21-MAR-2006 01:18	1.0	0.005		3		
037	079a037	X	ib			21-MAR-2006 01:46	1.0					
038	079a038	CCV	mo_500			21-MAR-2006 02:14	1.0	1.0		3	1	
039	079a039	CCV	dsl_500			21-MAR-2006 02:42	1.0	1.0		3	2	
040	079a040	X	ccv			21-MAR-2006 03:10	1.0				1	
041	079a041	X	ccv			21-MAR-2006 03:38	1.0				2	
042	079a042	SAMPLE	185414-011 S	111437	Water	21-MAR-2006 04:06	1.0	0.005		3		
043	079a043	SAMPLE	185414-013 S	111437	Water	21-MAR-2006 04:33	1.0	0.005		3		
044	079a044	SAMPLE	185414-012 S	111437	Water	21-MAR-2006 05:01	1.0	0.005		3		
045	079a045	SAMPLE	185381-018 S	111387	Water	21-MAR-2006 05:29	1.0	0.005		3		
046	079a046	CCV	mo_500			21-MAR-2006 07:39	1.0	1.0		3	1	70
047	079a047	CCV	dsl_1000			21-MAR-2006 08:06	1.0	1.0		3	3	
048	079a048	X	dsl 10			21-MAR-2006 10:04	1.0				5	
049	079a049	X	dsl 10			21-MAR-2006 10:32	1.0				5	
050	079a050	SAMPLE	185613-004 S	111434	Soil	21-MAR-2006 11:36	5.0	0.09944		3		1:BUNKC:=5220.06
051	079a051	SAMPLE	185385-012 S	111346	Water	21-MAR-2006 13:15	1.0	0.005		3		
052	079a052	SAMPLE	185385-013 S	111346	Water	21-MAR-2006 13:43	1.0	0.005		3		
053	079a053	SAMPLE	185385-014 S	111346	Water	21-MAR-2006 14:12	1.0	0.005		3		
054	079a054	SAMPLE	185381-017 S	111387	Water	21-MAR-2006 14:45	1.0	0.005		3		
055	079a055	SAMPLE	185381-019 S	111387	Water	21-MAR-2006 15:14	1.0	0.005		3		
056	079a056	X	mo_500			21-MAR-2006 16:16	1.0	1.0	6	3	6	
057	079a057	CCV	mo_500			21-MAR-2006 16:52	1.0	1.0		3	1	
058	079a058	X	dsl_1000			21-MAR-2006 17:20	1.0				3	
059	079a059	CCV	dsl_1000			21-MAR-2006 17:50	1.0	1.0		3	3	
060	079a060	X	185545-001 S	111427	Soil	21-MAR-2006 18:20	10.0	0.1009		3		
061	079a061	SAMPLE	185563-001	111427	Soil	21-MAR-2006 18:49	200.0	0.2007		3		
062	079a062	X	ib			21-MAR-2006 19:21	1.0					

Stds used: 1=S2843 2=S2871 3=S2885 4=S2755 5=S2964 6=S2971 7=S2845

SEQUENCE SUMMARY FOR 185463 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116114237 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
063	079a063	BS	QC332217 S	111477	Water	21-MAR-2006 20:06	1.0	0.005		3		
064	079a064	BSD	QC332218 S	111477	Water	21-MAR-2006 20:34	1.0	0.005		3		
065	079a065	BLANK	QC332216 S	111477	Water	21-MAR-2006 21:03	1.0	0.005		3		
066	079a066	SAMPLE	185463-001 S	111477	Water	21-MAR-2006 21:31	1.0	0.005		3		
067	079a067	SAMPLE	185463-002 S	111477	Water	21-MAR-2006 22:00	1.0	0.005		3		
068	079a068	SAMPLE	185456-001 S	111477	Water	21-MAR-2006 22:28	1.0	0.005		3		
069	079a069	SAMPLE	185456-002 S	111477	Water	21-MAR-2006 22:57	1.0	0.005		3		
070	079a070	SAMPLE	185456-003 S	111477	Water	21-MAR-2006 23:25	1.0	0.005		3		
071	079a071	X	ib			21-MAR-2006 23:53	1.0					
072	079a072	CCV	mo_500			22-MAR-2006 00:21	1.0	1.0		3	6	
073	079a073	CCV	dsl_500			22-MAR-2006 00:50	1.0	1.0		3	2	
074	079a074	X	ccv			22-MAR-2006 01:18	1.0				7	
075	079a075	CCV	dsl_1000			22-MAR-2006 01:46	1.0				3	
076	079a076	SAMPLE	185457-021 S	111478	Water	22-MAR-2006 02:14	1.0	0.005		3		
077	079a077	SAMPLE	185457-022 S	111478	Water	22-MAR-2006 02:42	1.0	0.005		3		71
078	079a078	SAMPLE	185457-001 S	111478	Water	22-MAR-2006 03:10	1.0	0.005		3		
079	079a079	SAMPLE	185457-002 S	111478	Water	22-MAR-2006 03:38	1.0	0.005		3		
080	079a080	MSS	185457-003 S	111478	Water	22-MAR-2006 04:06	1.0	0.005	7	3		
081	079a081	SAMPLE	185457-004 S	111478	Water	22-MAR-2006 04:34	1.0	0.005		3		
082	079a082	SAMPLE	185457-005 S	111478	Water	22-MAR-2006 05:02	1.0	0.005		3		
083	079a083	SAMPLE	185457-006 S	111478	Water	22-MAR-2006 05:30	1.0	0.005		3		
084	079a084	SAMPLE	185457-007 S	111478	Water	22-MAR-2006 05:58	1.0	0.005		3		
085	079a085	SAMPLE	185457-008 S	111478	Water	22-MAR-2006 06:26	1.0	0.005		3		
086	079a086	CCV	mo_500			22-MAR-2006 06:54	1.0	1.0		3	6	
087	079a087	CCV	dsl_1000			22-MAR-2006 07:22	1.0	1.0		3	3	
088	079a088	X	ccv			22-MAR-2006 07:49	1.0				7	
089	079a089	X	ccv			22-MAR-2006 08:18	1.0				3	
090	079a090	SAMPLE	185381-020 S	111387	Water	22-MAR-2006 09:06	1.0	0.005		3		
091	079a091	SAMPLE	185385-015 S	111346	Water	22-MAR-2006 09:34	1.0	0.005		3		
092	079a092	SAMPLE	185385-016 S	111346	Water	22-MAR-2006 10:03	1.0	0.005		3		
093	079a093	X	185385-017 S	111346	Water	22-MAR-2006 10:31	1.0					

Stds used: 1=S2843 2=S2871 3=S2885 4=S2755 5=S2964 6=S2971 7=S2845

SEQUENCE SUMMARY FOR 185463 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116114237 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
094	079a094	SAMPLE	185385-017 S	111346	Water	22-MAR-2006 11:00	1.0	0.005		3		
095	079a095	X	mo_500			22-MAR-2006 11:27	1.0	1.0	6	3	6	
096	079a096	CCV	dsl_250			22-MAR-2006 11:55	1.0	1.0	1	3	4	
097	079a097	X	mo_500			22-MAR-2006 12:24	1.0	1.0	6	3	6	7:JP8:10=138379

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Stds used: 1=S2843 2=S2871 3=S2885 4=S2755 5=S2964 6=S2971 7=S2845

SEQUENCE SUMMARY FOR 185463 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176114438 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	079a001	X	Pimer			20-MAR-2006 11:18	1.0					
002	079a002	X	ib			20-MAR-2006 11:46	1.0					
003	079a003	CCV	dsl_500			20-MAR-2006 12:13	1.0	1.0		3	1	
004	079a004	CCV	mo_500			20-MAR-2006 12:40	1.0	1.0	2	3	2	
005	079a005	SAMPLE	185519-013 S	111429	Soil	20-MAR-2006 13:11	1.0	0.1001		3		
006	079a006	SAMPLE	185607-005	111429	Soil	20-MAR-2006 13:39	1.0	0.1000	1	3		
007	079a007	SAMPLE	185519-015 S	111429	Soil	20-MAR-2006 14:06	2.0	0.09978		3		
008	079a008	SAMPLE	185519-016 S	111429	Soil	20-MAR-2006 14:34	1.0	0.1003		3		
009	079a009	SAMPLE	185519-014 S	111429	Soil	20-MAR-2006 15:02	3.0	0.09962		3		
010	079a010	SAMPLE	185607-005	111429	Soil	20-MAR-2006 15:30	1.0	0.1000	1	3		
011	079a011	MSS	185608-001	111429	Soil	20-MAR-2006 15:57	1.0	0.1009	9	3		
012	079a012	SAMPLE	185608-003	111429	Soil	20-MAR-2006 16:25	1.0	0.09921	1	3		
013	079a013	X	ib			20-MAR-2006 16:53	1.0					
014	079a014	CCV	dsl_1000			20-MAR-2006 17:20	1.0	1.0		3	3	
015	079a015	CCV	mo_500			20-MAR-2006 17:48	1.0	1.0	2	3	2	
016	079a016	CCV	jet_250			20-MAR-2006 18:26	1.0	1.0		3	4	
017	079a017	LCS	QC332017 S	111427	Soil	20-MAR-2006 18:55	1.0	0.09913		3		
018	079a018	MSS	185408-002 S	111348	Water	20-MAR-2006 19:22	1.0	0.005	6	3		
019	079a019	MSS	185408-008 S	111348	Water	20-MAR-2006 19:50	1.0	0.005	6	3		
020	079a020	MSS	185408-010 S	111348	Water	20-MAR-2006 20:17	1.0	0.005	6	3		
021	079a021	MSS	185525-002 S	111348	Water	20-MAR-2006 20:45	1.0	0.005	6	3		
022	079a022	X	ib			20-MAR-2006 21:12	1.0					
023	079a023	SAMPLE	185566-001 S	111437	Water	20-MAR-2006 21:40	1.0	0.005		3		
024	079a024	SAMPLE	185540-008 S	111427	Miscel	20-MAR-2006 22:07	1.0	0.1003		3		
025	079a025	SAMPLE	185613-004 S	111434	Soil	20-MAR-2006 22:35	1.0	0.09944	1	3		14:BUNKC:=20467.3
026	079a026	X	ib			20-MAR-2006 23:02	1.0					
027	079a027	SAMPLE	185547-004	111427	Soil	20-MAR-2006 23:30	10.0	0.1003		3		
028	079a028	SAMPLE	185547-003	111427	Soil	20-MAR-2006 23:57	20.0	0.1000		3		
029	079a029	X	ib			21-MAR-2006 00:24	1.0					
030	079a030	CCV	dsl_250			21-MAR-2006 00:52	1.0	1.0		3	5	
031	079a031	CCV	mo_500			21-MAR-2006 01:19	1.0	1.0	2	3	2	

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Stds used: 1=S2871 2=S2843 3=S2885 4=S2432 5=S2755 6=S2971

SEQUENCE SUMMARY FOR 185463 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176114438 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	079a032	X	ccv			21-MAR-2006 01:46	1.0					5	
033	079a033	CCV	jet_250			21-MAR-2006 02:13	1.0	1.0			3	4	
034	079a034	MSS	185524-006	111427	Soil	21-MAR-2006 02:41	1.0	0.1001	8		3		
035	079a035	SAMPLE	185592-003	111429	Soil	21-MAR-2006 03:08	1.0	0.1009			3		
036	079a036	SAMPLE	185592-004	111429	Soil	21-MAR-2006 03:36	1.0	0.1003			3		
037	079a037	SAMPLE	185592-001	111429	Soil	21-MAR-2006 04:03	50.0	0.1006			3	2:BUNKC:=5647.70	
038	079a038	X	ib			21-MAR-2006 04:30	1.0						
039	079a039	SAMPLE	184983-002 S	110760	Miscel	21-MAR-2006 04:58	10.0	0.1983			3	2:BUNKC:=6480.44	
040	079a040	SAMPLE	185545-002 S	111427	Soil	21-MAR-2006 05:25	1.0	0.1001			3		
041	079a041	SAMPLE	185545-003 S	111427	Soil	21-MAR-2006 05:52	1.0	0.1001	1	1	3		
042	079a042	SAMPLE	185545-001 S	111427	Soil	21-MAR-2006 06:20	1.0	0.1009	3	1	3	20:BUNKC:=30841.3	
043	079a043	X	ib			21-MAR-2006 06:47	1.0						
044	079a044	SAMPLE	185545-004 S	111427	Soil	21-MAR-2006 07:14	1.0	0.09962			3		
045	079a045	SAMPLE	185563-001	111427	Soil	21-MAR-2006 07:41	50.0	0.2007	2		3	7:BUNKC:=105657	
046	079a046	X	ib			21-MAR-2006 08:08	1.0						
047	079a047	CCV	dsl_500			21-MAR-2006 08:36	1.0	1.0			3	1	
048	079a048	X	mo_500			21-MAR-2006 09:03	1.0	1.0			3	2	
049	079a049	X	ccv			21-MAR-2006 09:30	1.0					1	
050	079a050	CCV	jet_250			21-MAR-2006 09:57	1.0	1.0			3	4	
051	079a051	CCV	mo_500			21-MAR-2006 10:25	1.0	1.0	2		3	2	
052	079a052	SAMPLE	185631-014 S	111434	Soil	21-MAR-2006 11:49	1.0	0.1003			3		
053	079a053	SAMPLE	185631-015 S	111434	Soil	21-MAR-2006 12:17	1.0	0.1002	1		3	8:JP8:10=25821.0	
054	079a054	SAMPLE	185631-001 S	111434	Soil	21-MAR-2006 12:44	1.0	0.1000			3		
055	079a055	SAMPLE	185631-007 S	111434	Soil	21-MAR-2006 13:12	1.0	0.0996			3		
056	079a056	SAMPLE	185385-015 S	111346	Water	21-MAR-2006 13:39	1.0	0.005			3		
057	079a057	SAMPLE	185385-017 S	111346	Water	21-MAR-2006 14:07	1.0	0.005			3		
058	079a058	SAMPLE	185385-016 S	111346	Water	21-MAR-2006 14:35	1.0	0.005			3		
059	079a059	SAMPLE	185381-020 S	111387	Water	21-MAR-2006 15:02	1.0	0.005			3		
060	079a060	SAMPLE	185631-010 S	111434	Soil	21-MAR-2006 15:30	1.0	0.09921			3	1:JP8:10=3738.52	
061	079a061	X	dsl_1000			21-MAR-2006 16:17	1.0	1.0			3	3	
062	079a062	CCV	mo_500			21-MAR-2006 16:44	1.0	1.0			3	6	

Stds used: 1=S2871 2=S2843 3=S2885 4=S2432 5=S2755 6=S2971

SEQUENCE SUMMARY FOR 185463 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176114438 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
063	079a063	MSS	185520-001 S	111434	Soil	21-MAR-2006 17:22	1.0	0.0998	6	3		
064	079a064	MS	QC332046 S	111434	Soil	21-MAR-2006 17:50	1.0	0.0997		3		
065	079a065	MSD	QC332047 S	111434	Soil	21-MAR-2006 18:18	1.0	0.09976		3		
066	079a066	SAMPLE	185600-005	111434	Soil	21-MAR-2006 18:45	1.0	0.1001		3		
067	079a067	SAMPLE	185600-003	111434	Soil	21-MAR-2006 19:13	1.0	0.1003		3		
068	079a068	SAMPLE	185456-004 S	111477	Water	21-MAR-2006 19:41	1.0	0.005		3		
069	079a069	SAMPLE	185456-005 S	111477	Water	21-MAR-2006 20:09	1.0	0.005		3		
070	079a070	SAMPLE	185456-006 S	111477	Water	21-MAR-2006 20:36	1.0	0.005		3		
071	079a071	SAMPLE	185456-007 S	111477	Water	21-MAR-2006 21:04	1.0	0.005		3		
072	079a072	SAMPLE	185456-008 S	111477	Water	21-MAR-2006 21:32	1.0	0.005		3		
073	079a073	X	ib			21-MAR-2006 21:59	1.0					
074	079a074	CCV	dsl_250			21-MAR-2006 22:27	1.0	1.0		3	5	
075	079a075	CCV	mo_500			21-MAR-2006 22:54	1.0	1.0		3	6	
076	079a076	X	ccv			21-MAR-2006 23:22	1.0				5	
077	079a077	LCS	QC332220 S	111478	Water	21-MAR-2006 23:49	1.0	0.005		3		75
078	079a078	BLANK	QC332219 S	111478	Water	22-MAR-2006 00:16	1.0	0.005	7	3		
079	079a079	SAMPLE	185456-009 S	111477	Water	22-MAR-2006 00:44	1.0	0.005		3		
080	079a080	SAMPLE	185580-003	111477	Water	22-MAR-2006 01:11	1.0	0.005		3		
081	079a081	SAMPLE	185580-004	111477	Water	22-MAR-2006 01:38	1.0	0.005		3		
082	079a082	SAMPLE	185580-005	111477	Water	22-MAR-2006 02:05	1.0	0.005		3		
083	079a083	SAMPLE	185580-006	111477	Water	22-MAR-2006 02:33	1.0	0.005		3		
084	079a084	SAMPLE	185580-007	111477	Water	22-MAR-2006 03:00	1.0	0.005		3		
085	079a085	SAMPLE	185580-008	111477	Water	22-MAR-2006 03:28	1.0	0.005		3		
086	079a086	SAMPLE	185580-009	111477	Water	22-MAR-2006 03:55	1.0	0.005		3		
087	079a087	X	ib			22-MAR-2006 04:23	1.0					
088	079a088	CCV	dsl_500			22-MAR-2006 04:50	1.0	1.0		3	1	
089	079a089	CCV	mo_500			22-MAR-2006 05:18	1.0	1.0	1	3	6	
090	079a090	X	xccv			22-MAR-2006 05:45	1.0				1	
091	079a091	CCV	jet_250			22-MAR-2006 07:26	1.0	1.0		3	4	
092	079a092	MSS	185457-009 S	111478	Water	22-MAR-2006 07:53	1.0	0.005	6	3		
093	079a093	SAMPLE	185457-010 S	111478	Water	22-MAR-2006 08:40	1.0	0.005		3		

Stds used: 1=S2871 2=S2843 3=S2885 4=S2432 5=S2755 6=S2971

SEQUENCE SUMMARY FOR 185463 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176114438 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
094	079a094	SAMPLE	185545-004 S	111427	Soil	22-MAR-2006 09:07	1.0	0.09962			3		
095	079a095	SAMPLE	185545-003 S	111427	Soil	22-MAR-2006 09:35	1.0	0.1001		1	3		2:BUNKC:=6790.53
096	079a096	SAMPLE	185545-001 S	111427	Soil	22-MAR-2006 10:02	10.0	0.1009			3		
097	079a097	SAMPLE	185545-003	111427	Soil	22-MAR-2006 10:31	1.0						
098	079a098	X	ib			22-MAR-2006 11:05	1.0						
099	079a099	SAMPLE	185456-004 S	111477	Water	22-MAR-2006 11:32	1.0	0.005			3		
100	079a100	SAMPLE	185456-005 S	111477	Water	22-MAR-2006 11:59	1.0	0.005			3		
101	079a101	SAMPLE	185600-005	111434	Soil	22-MAR-2006 12:26	1.0	0.1001			3		
102	079a102	X	185381-020 S	111387	Water	22-MAR-2006 12:53	1.0						
103	079a103	CCV	dsl_1000			22-MAR-2006 13:20	1.0	1.0			3	3	
104	079a104	CCV	mo_500			22-MAR-2006 13:47	1.0	1.0	2		3	6	
105	079a105	CCV	jet_250			22-MAR-2006 14:15	1.0	1.0			3	4	
106	079a106	SAMPLE	185456-006 S	111477	Water	22-MAR-2006 14:42	1.0	0.005			3		
107	079a107	SAMPLE	185456-007 S	111477	Water	22-MAR-2006 15:09	1.0	0.005			3		
108	079a108	SAMPLE	185456-008 S	111477	Water	22-MAR-2006 15:37	1.0	0.005			3		
109	079a109	SAMPLE	185545-003 S	111427	Soil	22-MAR-2006 16:04	1.0	0.1001		1	3		2:BUNKC:=6064.36
110	079a110	SAMPLE	185600-003	111434	Soil	22-MAR-2006 16:31	1.0	0.1003			3		
111	079a111	CCV	dsl_500			22-MAR-2006 17:04	1.0	1.0			3	1	
112	079a112	CCV	mo_500			22-MAR-2006 17:31	1.0	1.0			3	2	
113	079a113	X	ccv			22-MAR-2006 17:59	1.0					1	
114	079a114	CCV	jet_250			22-MAR-2006 18:26	1.0	1.0			3	4	
115	079a115	BS	QC332370 S	111513	Water	22-MAR-2006 19:32	1.0	0.005	1		3		
116	079a116	BSD	QC332371 S	111513	Water	22-MAR-2006 19:59	1.0	0.005	1		3		
117	079a117	BLANK	QC332369 S	111513	Water	22-MAR-2006 20:27	1.0	0.005			3		
118	079a118	SAMPLE	185632-001	111513	Water	22-MAR-2006 20:54	1.0	0.005			3		
119	079a119	SAMPLE	185632-002	111513	Water	22-MAR-2006 21:21	1.0	0.005		1	3		
120	079a120	SAMPLE	185632-003	111513	Water	22-MAR-2006 21:48	1.0	0.005			3		
121	079a121	SAMPLE	185632-004	111513	Water	22-MAR-2006 22:15	1.0	0.005			3		
122	079a122	SAMPLE	185632-005	111513	Water	22-MAR-2006 22:43	1.0	0.005			3		
123	079a123	SAMPLE	185632-006	111513	Water	22-MAR-2006 23:11	1.0	0.005			3		
124	079a124	SAMPLE	185632-007	111513	Water	22-MAR-2006 23:38	1.0	0.005			3		

Stds used: 1=S2871 2=S2843 3=S2885 4=S2432 5=S2755 6=S2971

SEQUENCE SUMMARY FOR 185463 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176114438 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
125	079a125	X	ib			23-MAR-2006 00:05	1.0						
126	079a126	CCV	dsl_1000			23-MAR-2006 00:32	1.0	1.0	2		3	3	
127	079a127	CCV	mo_500			23-MAR-2006 01:00	1.0	1.0			3	2	
128	079a128	X	ccv			23-MAR-2006 01:27	1.0					3	
129	079a129	CCV	jet_250			23-MAR-2006 01:54	1.0	1.0			3	4	
130	079a130	SAMPLE	185632-008	111513	Water	23-MAR-2006 02:21	1.0	0.005	2		3	14:BUNKC:=13333.9	
131	079a131	SAMPLE	185632-001 S	111513	Water	23-MAR-2006 02:49	1.0	0.005			3		
132	079a132	SAMPLE	185632-002 S	111513	Water	23-MAR-2006 03:16	1.0	0.005			3		
133	079a133	SAMPLE	185632-003 S	111513	Water	23-MAR-2006 03:43	1.0	0.005			3		
134	079a134	SAMPLE	185632-004 S	111513	Water	23-MAR-2006 04:11	1.0	0.005			3		
135	079a135	SAMPLE	185632-005 S	111513	Water	23-MAR-2006 04:38	1.0	0.005			3		
136	079a136	SAMPLE	185632-006 S	111513	Water	23-MAR-2006 05:05	1.0	0.005			3		
137	079a137	SAMPLE	185632-007 S	111513	Water	23-MAR-2006 05:32	1.0	0.005			3		
138	079a138	SAMPLE	185632-008 S	111513	Water	23-MAR-2006 06:00	1.0	0.005			3	5:BUNKC:=611097	
139	079a139	SAMPLE	185463-005 S	111513	Water	23-MAR-2006 06:27	1.0	0.005			3		
140	079a140	X	ib			23-MAR-2006 06:55	1.0						
141	079a141	CCV	dsl_250			23-MAR-2006 07:22	1.0	1.0			3	5	
142	079a142	CCV	mo_500			23-MAR-2006 07:49	1.0	1.0			3	2	
143	079a143	X	ccv			23-MAR-2006 08:17	1.0					5	
144	079a144	CCV	jet_250			23-MAR-2006 08:44	1.0	1.0			3	4	
145	079a145	SAMPLE	185632-002	111513	Water	23-MAR-2006 10:44	1.0	0.005		1	3		
146	079a146	SAMPLE	185632-008	111513	Water	23-MAR-2006 11:11	5.0	0.005			3		
147	079a147	SAMPLE	185631-013 S	111434	Soil	23-MAR-2006 11:39	20.0	0.09984			3		
148	079a148	CCV	dsl_500			23-MAR-2006 12:17	1.0	1.0			3	1	
149	079a149	CCV	mo_500			23-MAR-2006 12:44	1.0	1.0			3	6	
150	079a150	CCV	jet_250			23-MAR-2006 13:11	1.0	1.0			3	4	

Stds used: 1=S2871 2=S2843 3=S2885 4=S2432 5=S2755 6=S2971

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185463 TEHM Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	MO:2	HXCS	
185463-001	GC11A	03/21/06 21:31	1.0	+	+	+	
185463-002	GC11A	03/21/06 22:00	1.0	+	+	+	
185463-003	GC15B	03/22/06 22:05	1.0	+	+	+	
185463-004	GC15B	03/22/06 22:33	1.0	+	+	+	
185463-005	GC17A	03/23/06 06:27	1.0	+	+	+	
QC332216	GC11A	03/21/06 21:03	1.0	+	+	+	
QC332217	GC11A	03/21/06 20:06	1.0	+		+	
QC332218	GC11A	03/21/06 20:34	1.0	+		+	
QC332369	GC17A	03/22/06 20:27	1.0	+	+	+	
QC332370	GC17A	03/22/06 19:32	1.0				
QC332370	GC15B	03/23/06 11:12	1.0	+		+	
QC332371	GC17A	03/22/06 19:59	1.0				
QC332371	GC15B	03/23/06 11:40	1.0	+		+	

Curtis & Tompkins Laboratories **Sample Preparation Summary** **21-MAR-2006 17:03**

Batch Number : 111477
Date Extracted: 20-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : TEHM
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2903C
Spike #2 ID : S2826C
Spike #3 ID :
SOP Version :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185456-001		Acton Mickelson Environmental	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185456-002		Acton Mickelson Environmental	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185456-003		Acton Mickelson Environmental	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185456-004		Acton Mickelson Environmental	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185456-005		Acton Mickelson Environmental	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185456-006		Acton Mickelson Environmental	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185456-007		Acton Mickelson Environmental	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185456-008		Acton Mickelson Environmental	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185456-009		Acton Mickelson Environmental	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185463-001		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185463-002		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185580-002		Malcolm Pirnie,Inc.	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM		
185580-003		Malcolm Pirnie,Inc.	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM		
185580-004		Malcolm Pirnie,Inc.	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM		
185580-005		Malcolm Pirnie,Inc.	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM		
185580-006		Malcolm Pirnie,Inc.	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM		
185580-007		Malcolm Pirnie,Inc.	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM		
185580-008		Malcolm Pirnie,Inc.	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM		
185580-009		Malcolm Pirnie,Inc.	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM		
185580-010		Malcolm Pirnie,Inc.	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM		
QC332216	BLANK		Water	500	mL	2.5	0.005000	1		.5	0		TEHM	3630C	
QC332217	BS		Water	500	mL	2.5	0.005000	1		.5	.5		TEHM	3630C	
QC332218	BSD		Water	500	mL	2.5	0.005000	1		.5	.5		TEHM	3630C	

Prep Chemist: Jessie Mee Reviewed By: [illegible] Date: 3/21/06

Relinquished By: [illegible] Received By: [illegible] Date: 3/22/06

& Tompkins, Ltd

TEH WATER PREP LOG

BK2279

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S Batch No: 111477
MS Analysis: TEHM
Extracted by: JOM
e Extracted: 20 Mar 06

Extraction Method:
☐ mod. EPA 3510 sep. funnel
☒ mod. EPA 3520 cont. L/L
☐ _____

Cleanup Method (if needed):
☒ EPA 3630 Silica Gel
☐ Other _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
105456-001 K	500	6	2-5	X	
02 K					
03 J					
04 K					
05 K					
06 I					
07 K					
08 I					
09 I					
105463-001 J					
02 F					
105580-002 E					
03 E					
04 F					
05					
06					
07					
08					
09 G					
10 F					
MB BC332216		NA		X	
BS 17					
BSD 18					
					CL 3/21/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.5 mL of TEH_SURR was added to all samples	S2903C	JOM 3/20/06
0.5 mL of TEH_SP was added to all spikes	S2826C	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	JTBA49034	
☒ Samples were continually extracted about 450 mL of CH_2Cl_2	EM45294	
Extraction Start Time:	1425	
Extraction End Time:	0830	DLM 3/21/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	N/A	SFL 3/21/06
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM45118536	
Concentrated to volumes as noted above	✓	✓

Jessie Shee 3/20/06
Extraction Chemist Date

Contined from Page 80
Continued on Page _____

3/21/06
Reviewed by Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: MJM
Cleanup Date: 3/21/06

Benchbook # **BK 2272**
Page 92

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
185456-001	111477	1.0	1.0	
-002				
-003				
-004				
-005				
-006				
-007				
-008				
-009				
185463-001				
-002				
MB QC332216				
BS 17				
BSD 18				

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ____ g columns	N/A	MJM 3/21/06
☑ Extracts were cleaned up using 1.0 g cartridges	SP7028	
Extracts were eluted with 4.0 mL CH_2Cl_2	EM46060	
Concentrated to volumes as noted above	✓	

MJM 3/21/06
Extraction Chemist / Date

Continued from page ____
Continued on page ____

3/21/06
Reviewed by / Date

Curtis & Tompkins Laboratories **Sample Preparation Summary** **22-MAR-2006 18:18**

Batch Number : 111513
Date Extracted: 21-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : N/A
Bgroup : TEH
Units : mL
Clean-up :

Spike #1 ID : S2903E-
Spike #2 ID : S2826C-
Spike #3 ID :
SOP Version : TEH50LL_rv10

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185463-003		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185463-004		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185463-005		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185621-001		HydroAnalysis Inc	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM		
185621-002		HydroAnalysis Inc	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM		
185621-003		HydroAnalysis Inc	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM		
185621-004		HydroAnalysis Inc	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM		
185621-005		HydroAnalysis Inc	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM		
185621-006		HydroAnalysis Inc	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM		
185621-007		HydroAnalysis Inc	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM		
185621-008		HydroAnalysis Inc	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM		
185632-001		Burns & McDonnell	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH	3630C	
185632-002		Burns & McDonnell	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH	3630C	
185632-003		Burns & McDonnell	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH	3630C	
185632-004		Burns & McDonnell	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH	3630C	
185632-005		Burns & McDonnell	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH	3630C	
185632-006		Burns & McDonnell	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH	3630C	
185632-007		Burns & McDonnell	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH	3630C	
185632-008		Burns & McDonnell	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH	3630C	
QC332369	BLANK		Water	500	mL	2.5	0.005000	1		.5	0		TEH	3630C	
QC332370	BS		Water	500	mL	2.5	0.005000	1		.5	.5		TEH	3630C	
QC332371	BSD		Water	500	mL	2.5	0.005000	1		.5	.5		TEH	3630C	

Prep Chemist: Jessie O'Brien Mee Reviewed By: [illegible] Date: 3/22/06

Relinquished By: [illegible] Received By: MSB Date: 3/23/06

Curtis & Tompkins, Ltd

TEH WATER PREP LOG

BK2279

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LIMS Batch No: 111513
LIMS Analysis: TEH/M
Extracted by: JOM
Date Extracted: 21 Mar 06

Extraction Method:
☐ mod. EPA 3510 sep. funnel
☒ mod. EPA 3520 cont. L/L
☐ _____

Cleanup Method (if needed):
☒ EPA 3630 Silica Gel
☐ Other _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185463-003 E	500	6	2.5	X	
04					
05					
185621-001 D					
02					
03					
04					
05					
06					
07					
08					
185632-001 F				X	
02					
03					
04					
05					
06					
07					
08					
~~09~~					removed from batch JOM 3/21/06
MB BC332369		NA		X	
LCS 70					
LCSD 71					
					3/22/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.5 mL of TEH_SURR was added to all samples	[illegible]3E	[illegible]
0.5 mL of TEH_SP was added to all spikes	[illegible]6C	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	J[illegible]9034	
☒ Samples were continually extracted about 450 mL of CH_2Cl_2	EM[illegible]060	
Extraction Start Time:	1235	
Extraction End Time:	0645	[illegible]
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	N/A	
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM[illegible]185537	
Concentrated to volumes as noted above	✓	

3/21/06
Extraction Chemist / Date

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Contined from Page ___
Continued on Page ___

3/22/06
Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** EPA 3630c

Prep Chemist: SFL
Cleanup Date: 3/22/06

Benchbook # **BK 2272**
Page 95

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
185463-003	111513	1.0	1.0	
-004				
-005				
185632-001				
-002				
-003				
-004				
-005				
-006				
-007				
-008				
MB QC 332369				
LCS 70				
LCSD 71				

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water
As of 04/29/06

Analyte	Units	GC11A	GC13B	GC15B	GC17A
JP-5 C10-C16	ug/L	17	16	7.9	5.4
Jet Fuel A C10-C16	ug/L	14	30	24	33
Diesel C10-C20	ug/L		16	13	19
Diesel C10-C22	ug/L	21	18	19	27
Diesel C10-C28	ug/L	18	11	22	37
Diesel C10-C24	ug/L	21	15	18	33
Diesel C12-C24	ug/L	20	13	20	33
Diesel C12-C32	ug/L	22	14	25	23
Diesel C12-C36	ug/L	13	17		
Diesel C12-C28	ug/L		31		
Diesel C12-C22	ug/L	19	17	20	25
Motor Oil C20-C36	ug/L	40	50	29	53
Motor Oil C28-C36	ug/L	42	55	33	76
Motor Oil C24-C36	ug/L	42	55	33	76
Motor Oil C22-C32	ug/L	36	51	21	50
Motor Oil C22-C36	ug/L	41	52	30	51
Hexacosane	ug/L	4.5	3.4	4.2	3.1

VOLATILE ORGANIC COMPOUNDS

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	NKGW03	Batch#:	111284
Lab ID:	185463-001	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Analyzed:	03/14/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-120
1,2-Dichloroethane-d4	105	76-114
Toluene-d8	95	88-110
Bromofluorobenzene	96	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331410	Batch#:	111284
Matrix:	Water	Analyzed:	03/14/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-120
1,2-Dichloroethane-d4	109	76-114
Toluene-d8	96	88-110
Bromofluorobenzene	98	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	111284
Units:	ug/L	Analyzed:	03/14/06
Diln Fac:	1.000		

Type: BS Lab ID: QC331411

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	24.48	98	65-135
Benzene	25.00	23.58	94	65-135
Trichloroethene	25.00	25.57	102	65-135
Toluene	25.00	24.58	98	65-135
Chlorobenzene	25.00	26.56	106	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-120
1,2-Dichloroethane-d4	102	76-114
Toluene-d8	96	88-110
Bromofluorobenzene	93	86-115

Type: BSD Lab ID: QC331412

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	23.43	94	65-135	4	35
Benzene	25.00	23.42	94	65-135	1	35
Trichloroethene	25.00	24.86	99	65-135	3	35
Toluene	25.00	24.48	98	65-135	0	35
Chlorobenzene	25.00	25.77	103	65-135	3	35

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-120
1,2-Dichloroethane-d4	103	76-114
Toluene-d8	98	88-110
Bromofluorobenzene	91	86-115

RPD= Relative Percent Difference

8260/GASOX ICAL

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\IB613.D

Date : 06-FEB-2006 17:02

Client ID: bfb tune std

Sample Info: BFB,S2327

Volume Injected (uL): 1.0

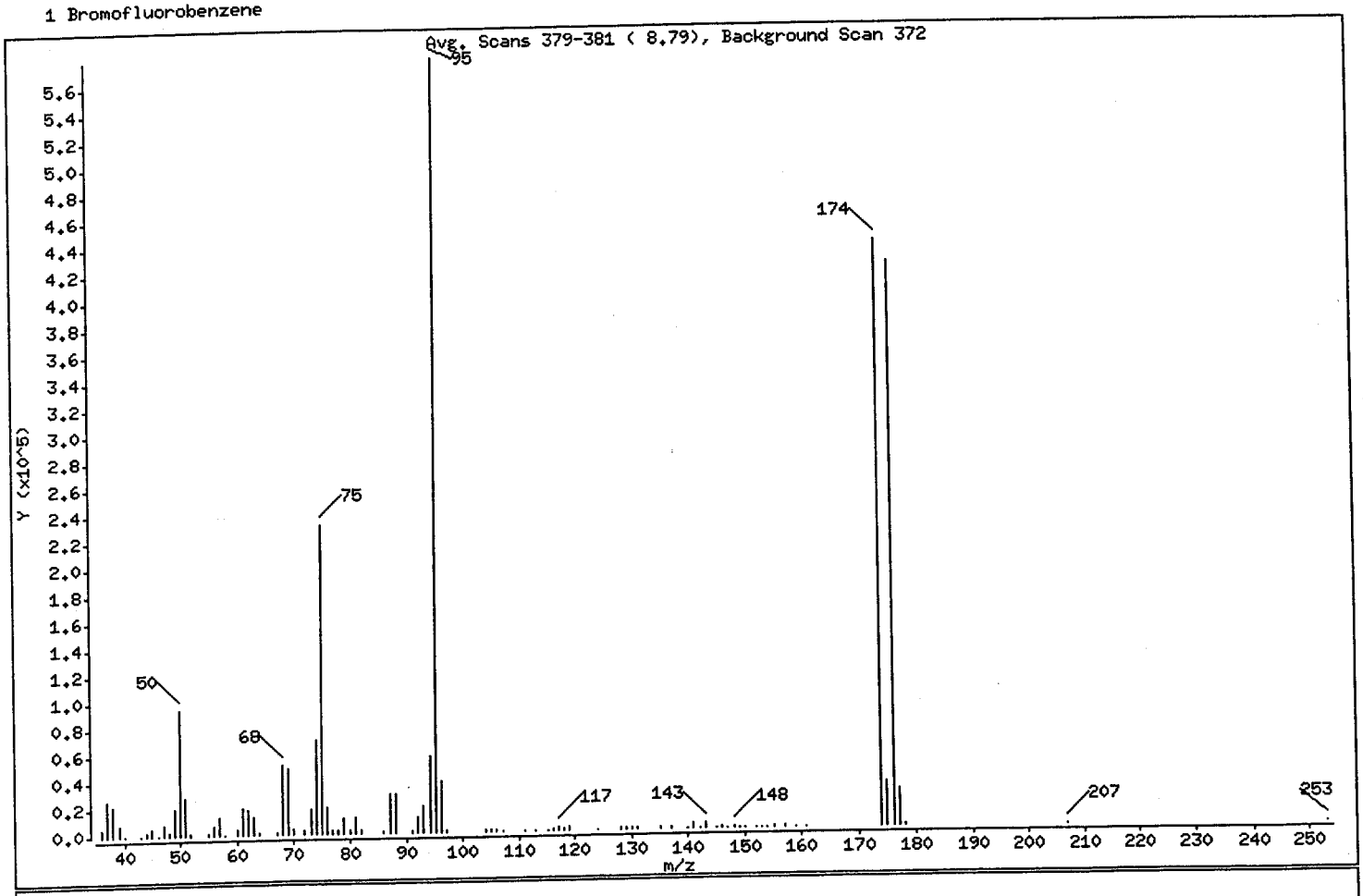
Column phase:

1 Bromofluorobenzene

Instrument: MSVOA09.i

Operator: VOC

Column diameter: 2.00



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.21
75	30.00 - 60.00% of mass 95	39.92
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	75.79
175	5.00 - 9.00% of mass 174	5.69 (7.51)
176	95.01 - 100.99% of mass 174	73.02 (96.34)
177	5.00 - 9.00% of mass 176	4.87 (6.66)

SGS 2/8/06

02/09/06

§ 260 / GASOX
ICV

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\020806.b\IB802.D

Date : 08-FEB-2006 11:25

Client ID: bfb tune std

Sample Info: BFB,S2327

Volume Injected (uL): 1.0

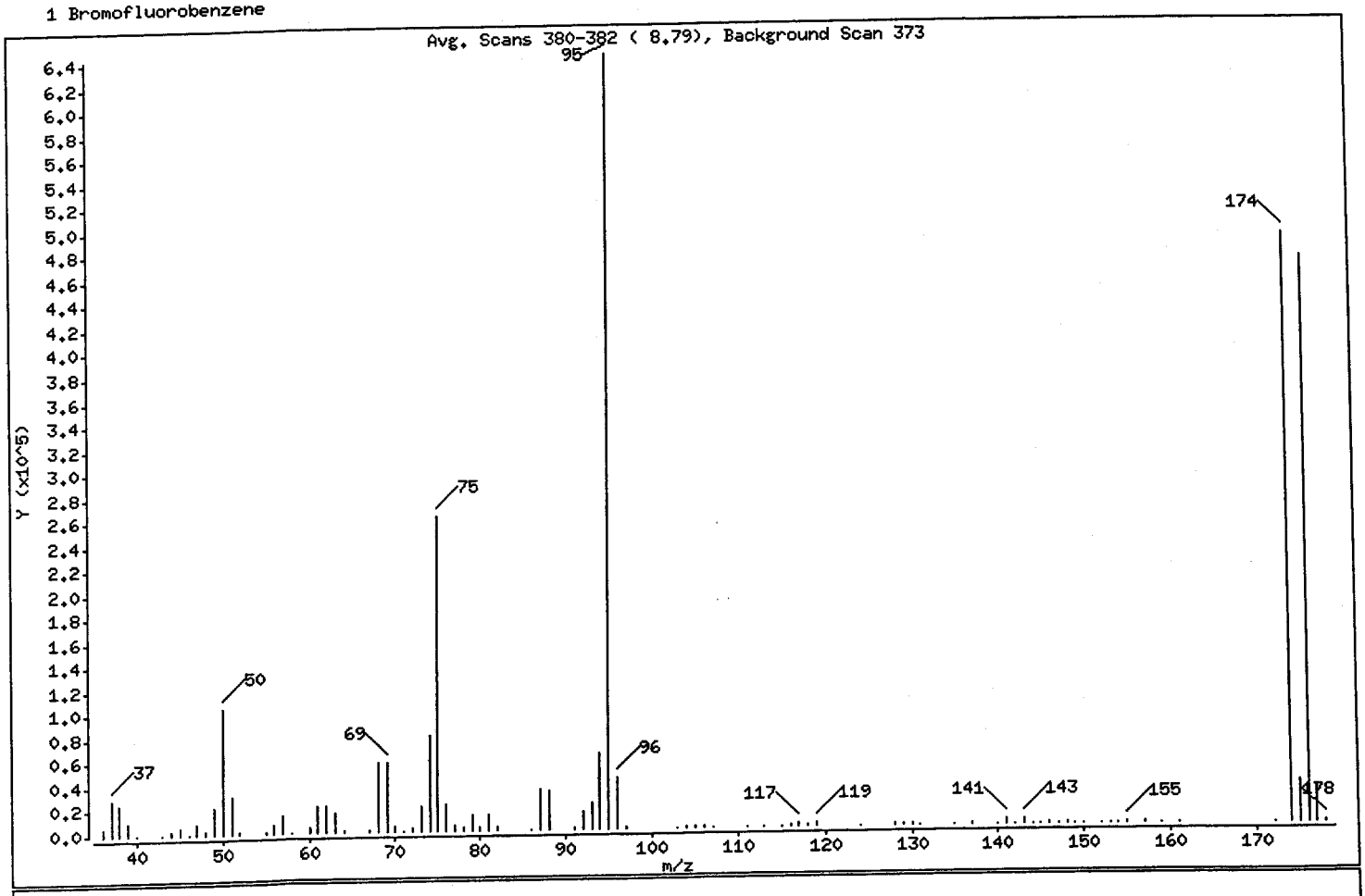
Column phase:

1 Bromofluorobenzene

Instrument: MSVOA09.i

Operator: VOC

Column diameter: 2.00



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.39
75	30.00 - 60.00% of mass 95	40.74
96	5.00 - 9.00% of mass 95	6.56
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	76.10
175	5.00 - 9.00% of mass 174	5.60 (7.36)
176	95.01 - 100.99% of mass 174	73.05 (95.99)
177	5.00 - 9.00% of mass 176	4.79 (6.56)

503 2/8/06

Q 02/09/06

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031406.b\ICE01.D

Date : 14-MAR-2006 10:50

Client ID: bfb tune std

Instrument: MSVOA09.i

Sample Info: BFB,S2327

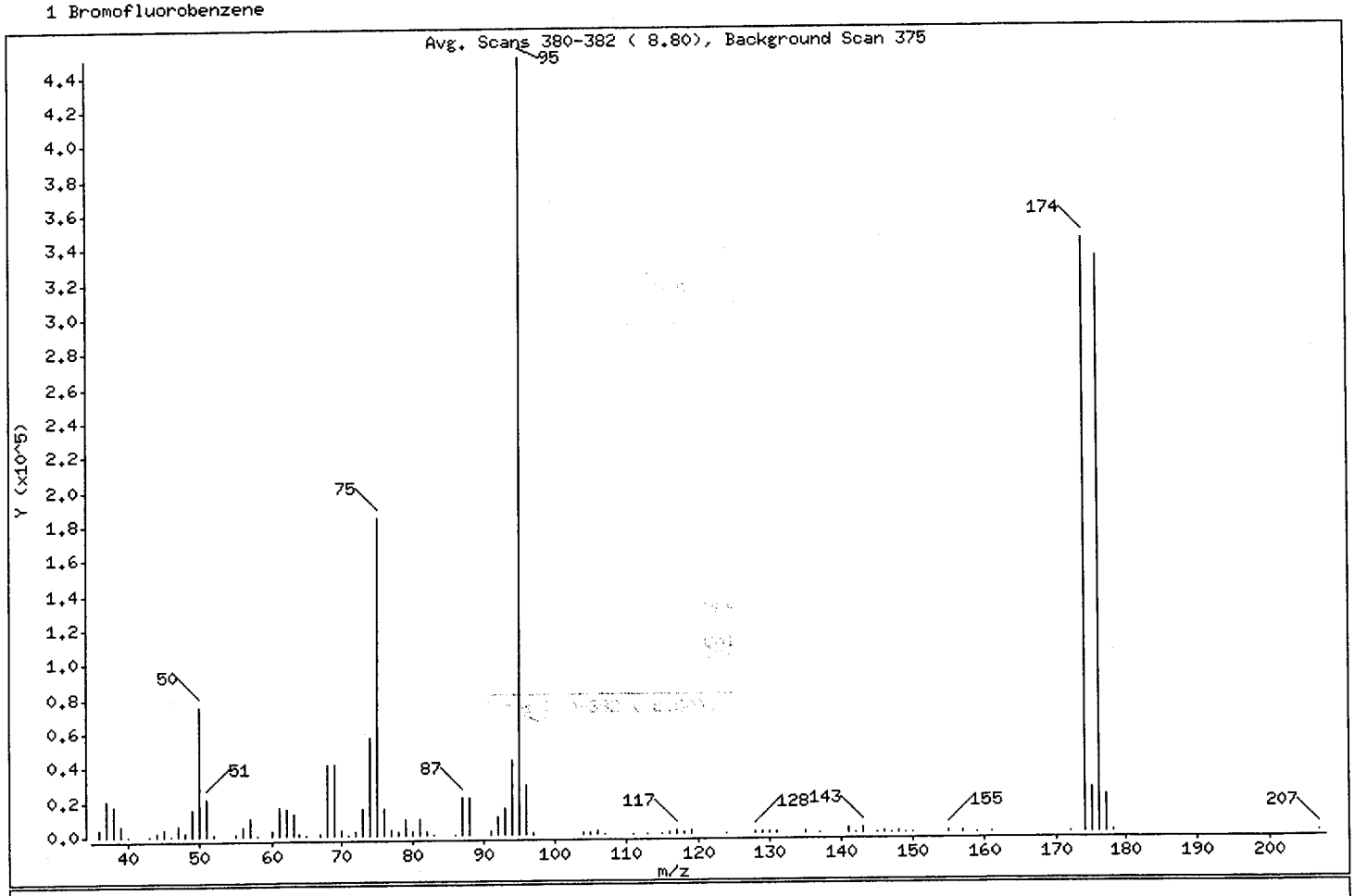
Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.84
75	30.00 - 60.00% of mass 95	40.98
96	5.00 - 9.00% of mass 95	6.45
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	76.23
175	5.00 - 9.00% of mass 174	5.68 (7.46)
176	95.01 - 100.99% of mass 174	73.91 (96.95)
177	5.00 - 9.00% of mass 176	4.79 (6.48)

503 3/15/06

3/15/06

8260/GASOX ICAL

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 8260B

Inst : MSVOA09 Name : 826GOX9W
Calnum : 486053925001 Date : 06-FEB-2006 18:43 Type : WATER Inj Vol: 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	ib616	486053925016	0.5/1PPB	06-FEB-2006 18:43	S2552 (500000X), S2349 (1000000X), S2028 (1000000X), S2286 (1000X)
L2	ib617	486053925017	2PPB	06-FEB-2006 19:19	S2552 (250000X), S2349 (250000X), S2028 (500000X), S2286 (1000X)
L3	ib618	486053925018	5PPB	06-FEB-2006 19:58	S2552 (100000X), S2349 (100000X), S2028 (200000X), S2286 (1000X)
L4	ib619	486053925019	10PPB	06-FEB-2006 20:33	S2552 (50000X), S2349 (50000X), S2028 (100000X), S2286 (1000X)
L5	ib620	486053925020	20PPB	06-FEB-2006 21:09	S2552 (25000X), S2349 (25000X), S2028 (50000X), S2286 (1000X)
L6	ib621	486053925021	50PPB	06-FEB-2006 21:45	S2552 (10000X), S2349 (10000X), S2028 (20000X), S2286 (1000X)
L7	ib622	486053925022	75PPB	06-FEB-2006 22:20	S2552 (6667X), S2349 (6667X), S2028 (13330X), S2286 (1000X)
L8	ib623	486053925023	100PPB	06-FEB-2006 22:56	S2552 (5000X), S2349 (5000X), S2028 (10000X), S2286 (1000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Freon 12	1.5732m	2.2334	1.8811	1.8295	1.6718	2.0449	1.8927	1.8650	AVRG	R		0.533633		ug/L	1.8739	11	0.050	0.99	15	
Chloromethane	2.4609m	2.6257	2.3630	2.2618	2.1363	2.0894	1.9552		AVRG	R		0.440465		ug/L	2.2703	10	0.10	0.99	15	
Vinyl Chloride	1.6259m	1.8293	1.6397	1.6001	1.5153	1.6926	1.6177	1.5488	AVRG	R		0.612122		ug/L	1.6337	6	0.050	0.99	15	
Bromomethane	0.6474m	0.6934m	0.6697	0.6905m	0.7641	0.8993	0.9188		AVRG	R		1.324932		ug/L	0.7548	15	0.050	0.99	15	
Chloroethane	0.7236m	0.9140m	0.8863	0.8453	0.8139	0.8660	0.8508	0.7939	AVRG	R		1.195148		ug/L	0.8367	7	0.050	0.99	15	
Trichlorofluoromethane	1.3515	1.8974	1.5832	1.6167	1.4365	1.7155	1.6016	1.5630	AVRG	R		0.626696		ug/L	1.5957	10	0.050	0.99	15	93
Acetone			0.4456	0.4597	0.4732	0.4010	0.4149	0.4024	AVRG	R		2.310562		ug/L	0.4328	7	0.050	0.99	15	
Freon 113	0.8751	1.0157	0.7477	0.8402	1.1363	1.2008	1.2206	1.1776	LINR	R	1.150406	0.825943		ug/L	1.0267	0.999	0.050	0.99	15	
1,1-Dichloroethene	0.9120	1.0406	0.9424	0.8865	0.9974	1.0185	1.0075	0.9770	AVRG	R		1.028042		ug/L	0.9727	6	0.050	0.99	15	
Methylene Chloride		1.4809	1.3368	1.3048	1.3133	1.2777	1.2289	1.1911	AVRG	R		0.766408		ug/L	1.3048	7	0.050	0.99	15	
Carbon Disulfide	4.4526	4.3479	4.0933	4.0976	4.4652	4.4901	4.3552	4.2378	AVRG	R		0.231618		ug/L	4.3175	4	0.050	0.99	15	
MTBE	2.7165	3.0724	3.1252	3.0300	3.1203	3.1814	3.1023	2.9306	AVRG	R		0.329507		ug/L	3.0348	5	0.050	0.99	15	
trans-1,2-Dichloroethene	1.3043	1.2204	1.1220	1.1238	1.1426	1.1718	1.1250	1.0917	AVRG	R		0.860076		ug/L	1.1627	6	0.050	0.99	15	
Vinyl Acetate		2.9033	3.1513	2.7689	2.8314	3.0742	2.9905	2.8584	AVRG	R		0.340169		ug/L	2.9397	5	0.050	0.99	15	
1,1-Dichloroethane	1.9771	2.0189	2.0809	2.0270	2.0694	2.0397	1.9230	1.8556	AVRG	R		0.500260		ug/L	1.9990	4	0.10	0.99	15	
2-Butanone			0.6328	0.6410	0.6684	0.6415	0.6387	0.5872	AVRG	R		1.575031		ug/L	0.6349	4	0.050	0.99	15	
2,2-Dichloropropane	1.3977	1.3523	1.3004	1.2551	1.3813	1.3898	1.3475	1.2983	AVRG	R		0.746098		ug/L	1.3403	4	0.050	0.99	15	
cis-1,2-Dichloroethene	1.3105	1.3497	1.2779	1.2384	1.2768	1.2729	1.1967	1.1922	AVRG	R		0.790905		ug/L	1.2644	4	0.050	0.99	15	
Chloroform	1.8115	1.9037	1.9063	1.8495	1.8883	1.9003	1.8136	1.7562	AVRG	R		0.539471		ug/L	1.8537	3	0.050	0.99	15	
Bromochloromethane	0.6611	0.6367	0.6554	0.6405	0.6385	0.6466	0.6307	0.6090	AVRG	R		1.562935		ug/L	0.6398	2	0.050	0.99	15	
1,1,1-Trichloroethane	1.1741	1.3005	1.2205	1.2177	1.4067	1.4232	1.3920	1.3497	AVRG	R		0.763040		ug/L	1.3105	7	0.050	0.99	15	
1,1-Dichloropropene	0.7396	0.7952	0.7153	0.7211	0.8697	0.8816	0.8800	0.8717	AVRG	R		1.235674		ug/L	0.8093	9	0.050	0.99	15	
Carbon Tetrachloride	0.5609	0.6006	0.5246	0.5549	0.6904	0.7141	0.7230	0.7227	AVRG	R		1.571295		ug/L	0.6364	13	0.050	0.99	15	
1,2-Dichloroethane	0.7949	0.7954	0.8518	0.8031	0.8170	0.8178	0.7917	0.7651	AVRG	R		1.242839		ug/L	0.8046	3	0.050	0.99	15	
Benzene	2.8198	2.6265	2.5458	2.4332	2.5936	2.5552	2.5254	2.4811	AVRG	R		0.388719		ug/L	2.5726	5	0.050	0.99	15	
Trichloroethene	0.5843	0.6192	0.5840	0.5826	0.6533	0.6435	0.6398	0.6403	AVRG	R		1.617156		ug/L	0.6184	5	0.050	0.99	15	

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Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
1,2-Dichloropropane	0.7355	0.7385	0.7433	0.7209	0.7456	0.7327	0.7003	0.6777	AVRG	R		1.380629		ug/L	0.7243	3	0.050	0.99	15	
Bromodichloromethane	0.7490	0.8172	0.8115	0.8090	0.8466	0.8503	0.8266	0.8139	AVRG	R		1.226225		ug/L	0.8155	4	0.050	0.99	15	
Dibromomethane	0.4186	0.4954	0.4891	0.4780	0.4932	0.4887	0.4848	0.4756	AVRG	R		2.092378		ug/L	0.4779	5	0.050	0.99	15	
2-Chloroethylvinylether			0.3072	0.2813	0.2822	0.3212	0.3300	0.3142	AVRG	R		3.267635		ug/L	0.3060	7	0.050	0.99	15	
4-Methyl-2-Pentanone			0.7319	0.7072	0.7320	0.7458	0.7555	0.7176	AVRG	R		1.366701		ug/L	0.7317	2	0.050	0.99	15	
Tetramethyl THF	1.4342	1.5065	1.5347	1.4724	1.5578	1.5256	1.4997	1.4218	AVRG	R		0.669308		ug/L	1.4941	3	0.050	0.99	15	
cis-1,3-Dichloropropene	1.0685	1.1187	1.1186	1.0802	1.1269	1.1088	1.0807	1.0620	AVRG	R		0.912786		ug/L	1.0955	2	0.050	0.99	15	
Toluene	1.6050	1.4596	1.4238	1.3747	1.5572	1.5322	1.5244	1.5140	AVRG	R		0.667181		ug/L	1.4988	5	0.050	0.99	15	
trans-1,3-Dichloropropene	0.9054	0.9492	0.9748	0.9618	0.9991	1.0056	0.9913	0.9733	AVRG	R		1.030861		ug/L	0.9701	3	0.050	0.99	15	
1,1,2-Trichloroethane	0.3197	0.3358	0.3415	0.3319	0.3467	0.3415	0.3382	0.3348	AVRG	R		2.973878		ug/L	0.3363	2	0.050	0.99	15	
2-Hexanone			0.6129	0.5737	0.6242	0.6381	0.6577	0.6131	AVRG	R		1.613035		ug/L	0.6199	5	0.050	0.99	15	
1,3-Dichloropropane	1.2831	1.2956	1.3862	1.3037	1.3630	1.3710	1.3453	1.2926	AVRG	R		0.751842		ug/L	1.3301	3	0.050	0.99	15	
Tetrachloroethene	0.6629	0.6552	0.5673	0.5561	0.7197	0.7640	0.7772	0.7784	AVRG	R		1.459664		ug/L	0.6851	13	0.050	0.99	15	
Dibromochloromethane	0.7503	0.7789	0.8304	0.7879	0.8549	0.8779	0.8817	0.8606	AVRG	R		1.207981		ug/L	0.8278	6	0.050	0.99	15	
1,2-Dibromoethane	0.6414	0.6851	0.7040	0.6892	0.7117	0.7136	0.7204	0.7071	AVRG	R		1.435634		ug/L	0.6966	4	0.050	0.99	15	
Chlorobenzene	2.0881	2.0918	2.0287	1.9191	2.1311	2.1699	2.1215	2.0932	AVRG	R		0.480668		ug/L	2.0804	4	0.30	0.99	15	
1,1,1,2-Tetrachloroethane	0.5964	0.7355	0.6958	0.6691	0.7472	0.7429	0.7464	0.7299	AVRG	R		1.412619		ug/L	0.7079	7	0.050	0.99	15	
Ethylbenzene	3.4433	3.2956	2.9966	2.9437	3.5739	3.5551	3.5139	3.3335	AVRG	R		0.300124		ug/L	3.3320	7	0.050	0.99	15	
m,p-Xylenes	1.3036	1.2761	1.1638	1.1473	1.3635	1.3497	1.3250	1.2696	AVRG	R		0.784415		ug/L	1.2748	6	0.050	0.99	15	
o-Xylene	1.1535	1.2575	1.1837	1.1468	1.3390	1.3297	1.3202	1.2751	AVRG	R		0.799556		ug/L	1.2507	6	0.050	0.99	15	
Styrene	2.1733	2.1732	2.1727	2.1037	2.3896	2.3637	2.3369	2.2905	AVRG	R		0.444352		ug/L	2.2505	5	0.050	0.99	15	94
Bromoform	0.5512	0.5321	0.5567	0.5563	0.5910	0.6136	0.6373	0.6322	AVRG	R		1.712905		ug/L	0.5838	7	0.10	0.99	15	
Isopropylbenzene	6.1842	6.3408	5.4843	5.3972	6.8408	7.0033	7.1927	7.0464	AVRG	R		0.155371		ug/L	6.4362	11	0.050	0.99	15	
1,1,2,2-Tetrachloroethane	2.2739	2.3148	2.3401	2.2093	2.3199	2.3124	2.3994	2.2788	AVRG	R		0.433637		ug/L	2.3061	2	0.30	0.99	15	
1,2,3-Trichloropropane	0.5420	0.5603	0.6035	0.5771	0.5907	0.5842	0.6094	0.5737	AVRG	R		1.723856		ug/L	0.5801	4	0.050	0.99	15	
Propylbenzene	8.0426	8.1538	6.8819	6.9015	8.7780	8.8125	8.8139	8.5528	AVRG	R		0.123196		ug/L	8.1171	10	0.050	0.99	15	
Bromobenzene	1.9691	1.9121	1.7791	1.7201	1.9010	1.9365	1.9691	1.9583	AVRG	R		0.528210		ug/L	1.8932	5	0.050	0.99	15	
1,3,5-Trimethylbenzene	5.3928	5.1613	4.7171	4.6023	5.7771	5.8068	5.7316	5.6307	AVRG	R		0.186830		ug/L	5.3525	9	0.050	0.99	15	
2-Chlorotoluene	5.7163	5.6299	5.3580	5.0529	5.8361	5.8748	5.8561	5.6272	AVRG	R		0.177970		ug/L	5.6189	5	0.050	0.99	15	
4-Chlorotoluene	4.9878	5.4760	4.9929	4.8013	5.5326	5.4743	5.4123	5.2899	AVRG	R		0.190625		ug/L	5.2459	5	0.050	0.99	15	
tert-Butylbenzene	3.9569	4.0909	3.5072	3.4872	4.6392	4.6611	4.7351	4.6837	AVRG	R		0.236957		ug/L	4.2202	13	0.050	0.99	15	
1,2,4-Trimethylbenzene	5.7419	5.4205	4.9906	4.9063	5.8656	5.8526	5.7952	5.6665	AVRG	R		0.180835		ug/L	5.5299	7	0.050	0.99	15	
sec-Butylbenzene	6.7512	6.2406	5.2782	5.2980	7.3881	7.6707	7.5361	7.5171	AVRG	R		0.149031		ug/L	6.7100	15	0.050	0.99	15	
para-Isopropyl Toluene	5.0898	4.8169	4.1929	4.2737	5.7463	5.8215	5.7442	5.7119	AVRG	R		0.193250		ug/L	5.1746	13	0.050	0.99	15	
1,3-Dichlorobenzene	3.3118	3.3299	3.1327	3.0119	3.3771	3.4548	3.4814	3.4190	AVRG	R		0.301676		ug/L	3.3148	5	0.050	0.99	15	
1,4-Dichlorobenzene	3.4319	3.5302	3.3125	3.1043	3.5129	3.5418	3.5449	3.5282	AVRG	R		0.290839		ug/L	3.4383	5	0.050	0.99	15	
n-Butylbenzene	4.7524	4.4107	3.8471	3.9550	5.5371	5.6790	5.3688	5.3613	AVRG	R		0.205595		ug/L	4.8639	15	0.050	0.99	15	
1,2-Dichlorobenzene	3.2489	3.1045	3.0653	2.9960	3.2515	3.2701	3.2589	3.2420	AVRG	R		0.314499		ug/L	3.1797	3	0.050	0.99	15	
1,2-Dibromo-3-Chloropropane	0.3677	0.3582	0.3583	0.3456	0.3537	0.3569	0.3536	0.3339	AVRG	R		2.828992		ug/L	0.3535	3	0.050	0.99	15	
1,2,4-Trichlorobenzene	1.3584	1.5349	1.4772	1.5070	1.7631	1.8361	1.7316	1.7773	AVRG	R		0.616070		ug/L	1.6232	11	0.050	0.99	15	
Hexachlorobutadiene	0.3636	0.3766	0.3614	0.4006	0.6175	0.5704	0.5337		LINR	R	0.609902	1.805265		ug/L	0.4606	0.995	0.050	0.99	15	

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Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Naphthalene	3.3969	3.9542	4.1165	4.1586	4.6025	4.7484	4.7072	4.6226	AVRG	R		0.233189		ug/L	4.2884	11	0.050	0.99	15	
1,2,3-Trichlorobenzene	1.2547	1.3971	1.3954	1.4398	1.6365	1.6946	1.5946	1.6468	AVRG	R		0.663380		ug/L	1.5074	10	0.050	0.99	15	
tert-Butyl Alcohol (TBA)	0.0373m	0.0909m	0.1010m	0.0945m	0.0983m	0.1008	0.1053	0.0939	LINR	R	-1.25610	10.15842		ug/L	0.0902	0.995	0.005	0.99	15	
Isopropyl Ether (DIPE)	4.1521	4.3826	4.5982	4.4475	4.6350	4.5858	4.3195	4.1783	AVRG	R		0.226636		ug/L	4.4124	4	0.050	0.99	15	
Ethyl tert-Butyl Ether (ETBE)	3.3908	3.6645	3.6906	3.6458	3.8333	3.8095	3.6485	3.4920	AVRG	R		0.274207		ug/L	3.6469	4	0.050	0.99	15	
Methyl tert-Amyl Ether (TAME)	1.8501	1.8754	1.8723	1.8530	1.9147	1.9403	1.9768	1.9031	AVRG	R		0.526807		ug/L	1.8982	2	0.050	0.99	15	
Cyclohexanone	0.2009	0.2706	0.2001	0.2581	0.2747				LINR	R	5.448848	3.578824		ug/L	0.2409	0.995	0.005	0.99	15	
Ethanol	0.0168m	0.0175m	0.0193m	0.0178m	0.0186	0.0189m	0.0185	0.0165	AVRG	R		55.56481		ug/L	0.0180	6	0.0005	0.99	15	
Isopropanol		0.0759m	0.0848m	0.0809m	0.0848m	0.0870m	0.0891	0.0771	AVRG	R		12.07968		ug/L	0.0828	6	0.005	0.99	15	
Tetrahydrofuran	0.4235	0.3694	0.3744	0.3493	0.3632	0.3546	0.3457	0.3035	AVRG	R		2.774267		ug/L	0.3605	9	0.005	0.99	15	
Dibromofluoromethane	0.5730	0.5874	0.5847	0.6008	0.5792	0.5776	0.5508	0.5438	AVRG	R		1.740175		ug/L	0.5747	3	0.050	0.99	15	
1,2-Dichloroethane-d4	0.3226	0.3194	0.3262	0.3262	0.3192	0.3138	0.3087	0.2957	AVRG	R		3.159841		ug/L	0.3165	3	0.050	0.99	15	
Trifluorotoluene	1.0624	1.1456	0.9268	0.9527	1.2660	1.2834	1.3416	1.3459	AVRG	R		0.857956		ug/L	1.1656	15	0.050	0.99	15	
Toluene-d8	0.9785	0.9699	0.9682	0.9849	0.9907	0.9706	0.9791	0.9927	AVRG	R		1.021113		ug/L	0.9793	1	0.050	0.99	15	
Bromofluorobenzene	1.1304	1.1513	1.1503	1.1262	1.1432	1.1268	1.1480	1.1387	AVRG	R		0.877693		ug/L	1.1394	1	0.050	0.99	15	

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m=manual integration

AVRG=Average response factor LINR=Linear regression

Instrument amount = a0 + response * a1 + response^2 * a2

SB 2/8/06

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Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\IB616.D
Report Date: 08-Feb-2006 14:16

Laboratory Name

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\IB616.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 06-FEB-2006 18:43 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2552,0.002/1000,S2349,0.001/1000,
Misc Info : S2028,0.001/1000,0.5/1PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\826GOX9W.m
Meth Date : 08-Feb-2006 14:16 msvoa10 Quant Type: ISTD
Cal Date : 06-FEB-2006 18:43 Cal File: IB616.D
Als bottle: 16 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA10

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.127	4.127	(0.370)	8629	1.00000	0.8395(M)
2 Chloromethane	50	4.561	4.561	(0.408)	13498	1.00000	1.0839(M)
3 Vinyl Chloride	62	4.787	4.787	(0.429)	8918	1.00000	0.9952(M)
4 Bromomethane	94	5.517	5.517	(0.494)	3551	1.00000	0.8577(M)
5 Chloroethane	64	5.724	5.724	(0.513)	3969	1.00000	0.8648(M)
6 Trichlorofluoromethane	101	6.158	6.158	(0.551)	7413	1.00000	0.8469
7 Ethanol	45	6.582	6.582	(0.589)	4610	50.0000	46.7014(AM)
8 Freon 113	101	7.115	7.115	(0.637)	2400	0.50000	1.5118
9 1,1-Dichloroethene	96	7.194	7.194	(0.644)	2501	0.50000	0.4687(a)
10 Acetone	43	7.371	7.371	(0.660)	2783	0.50000	1.1723
11 Isopropanol	45	7.569	7.569	(0.678)	1617	5.00000	3.5611(AM)
12 Carbon Disulfide	76	7.618	7.618	(0.682)	12211	0.50000	0.5156
13 Methylene Chloride	84	8.160	8.160	(0.731)	4832	0.50000	0.6751(M)
14 tert-Butyl Alcohol (TBA)	59	8.279	8.279	(0.741)	1023	5.00000	2.0666(AM)
15 MTBE	73	8.515	8.515	(0.762)	7450	0.50000	0.4475(a)
16 trans-1,2-Dichloroethene	96	8.565	8.565	(0.767)	3577	0.50000	0.5608
17 Isopropyl Ether (DIPE)	45	9.304	9.304	(0.833)	11387	0.50000	0.4705(aA)
18 1,1-Dichloroethane	63	9.373	9.373	(0.839)	5422	0.50000	0.4945(a)
19 Vinyl Acetate	43	9.383	9.383	(0.840)	7839	0.50000	0.4861(a)
20 Ethyl tert-Butyl Ether (ETBE)	59	9.916	9.916	(0.888)	9299	0.50000	0.4648(aA)
21 2,2-Dichloropropane	77	10.330	10.330	(0.925)	3833	0.50000	0.5213
22 cis-1,2-Dichloroethene	96	10.360	10.360	(0.928)	3594	0.50000	0.5182

SGB 2/8/06

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\IB616.D
Report Date: 08-Feb-2006 14:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 2-Butanone	43	10.389	10.389	(0.930)	1760	0.50000	0.5053
	24 Bromochloromethane	128	10.784	10.784	(0.966)	1813	0.50000	0.5166
	25 Tetrahydrofuran	42	10.794	10.794	(0.966)	11615	5.00000	5.8748(A)
	26 Chloroform	83	10.853	10.853	(0.972)	4968	0.50000	0.4886(a)
$	27 Dibromofluoromethane	113	11.139	11.139	(0.997)	157135	50.0000	49.8534
	28 1,1,1-Trichloroethane	97	11.158	11.158	(0.999)	3220	0.50000	0.4479(a)
*	29 Pentafluorobenzene	168	11.168	11.168	(1.000)	274246	50.0000	
	30 Carbon Tetrachloride	117	11.375	11.375	(0.917)	2565	0.50000	0.4407(a)
	31 1,1-Dichloropropene	75	11.415	11.415	(0.920)	3382	0.50000	0.4569(a)
$	32 1,2-Dichloroethane-d4	65	11.770	11.770	(0.948)	147531	50.0000	50.9737
	33 Benzene	78	11.770	11.770	(0.948)	12894	0.50000	0.5480
	34 Methyl tert-Amyl Ether (TAME)	73	11.849	11.849	(0.955)	8460	0.50000	0.4873(aA)
	35 1,2-Dichloroethane	62	11.888	11.888	(0.958)	3635	0.50000	0.4939(a)
*	36 1,4-Difluorobenzene	114	12.411	12.411	(1.000)	457269	50.0000	
	37 Trichloroethene	95	12.825	12.825	(1.033)	2672	0.50000	0.4724(a)
	38 1,2-Dichloropropane	63	13.289	13.289	(1.071)	3363	0.50000	0.5076
$	39 Trifluorotoluene	146	13.299	13.299	(1.072)	4858	0.50000	0.4557(aA)
	40 Dibromomethane	93	13.496	13.496	(1.087)	1914	0.50000	0.4379(a)
	41 Bromodichloromethane	83	13.703	13.703	(1.104)	3425	0.50000	0.4592(a)
	42 2-Chloroethylvinylether	63	14.176	14.176	(1.142)	2246	1.00000	0.8024
	43 Tetramethyl THF	43	14.452	14.452	(1.164)	6558	0.50000	0.4799(aA)
	44 cis-1,3-Dichloropropene	75	14.452	14.452	(1.164)	4886	0.50000	0.4876(a)
	45 4-Methyl-2-Pentanone	43	14.669	14.669	(1.182)	2794	0.50000	0.4175(a)
$	46 Toluene-d8	98	14.827	14.827	(1.195)	447425	50.0000	49.9565
	47 Toluene	92	14.936	14.936	(1.203)	7339	0.50000	0.5354
	48 trans-1,3-Dichloropropene	75	15.330	15.330	(1.235)	4140	0.50000	0.4666(a)
	49 1,1,2-Trichloroethane	85	15.626	15.626	(1.259)	1462	0.50000	0.4754(a)
	50 Tetrachloroethene	166	15.734	15.734	(0.927)	2374	0.50000	0.4838(a)
	51 1,3-Dichloropropane	76	15.892	15.892	(0.936)	4595	0.50000	0.4823(a)
	52 2-Hexanone	43	15.932	15.932	(0.938)	1744	0.50000	0.3927(a)
	53 Dibromochloromethane	129	16.178	16.178	(0.953)	2687	0.50000	0.4531(a)
	54 1,2-Dibromoethane	107	16.385	16.385	(1.320)	2933	0.50000	0.4604(a)
*	55 Chlorobenzene-d5	117	16.977	16.977	(1.000)	358120	50.0000	
	56 Chlorobenzene	112	17.007	17.007	(1.002)	7478	0.50000	0.5018
	57 Ethylbenzene	91	17.086	17.086	(1.006)	12331	0.50000	0.5167
	58 1,1,1,2-Tetrachloroethane	131	17.115	17.115	(1.008)	2136	0.50000	0.4212(a)
	59 m,p-Xylenes	106	17.243	17.243	(1.016)	9337	1.00000	1.0225
	60 o-Xylene	106	17.776	17.776	(1.047)	4131	0.50000	0.4611(a)
	61 Styrene	104	17.796	17.796	(1.048)	7783	0.50000	0.4828(a)
	62 Bromoform	173	18.092	18.092	(1.066)	1974	0.50000	0.4720(a)
	63 Isopropylbenzene	105	18.200	18.200	(0.920)	10612	0.50000	0.4804(a)
	64 Cyclohexanone	55	18.447	18.447	(0.932)	3447	5.00000	9.0433(A)
$	65 Bromofluorobenzene	95	18.456	18.456	(0.933)	193969	50.0000	49.6058
	66 1,1,2,2-Tetrachloroethane	83	18.624	18.624	(0.941)	3902	0.50000	0.4930(a)
	67 Bromobenzene	156	18.664	18.664	(0.943)	3379	0.50000	0.5200
	68 Propylbenzene	91	18.693	18.693	(0.945)	13801	0.50000	0.4954(a)
	69 1,2,3-Trichloropropane	110	18.713	18.713	(0.946)	930	0.50000	0.4671(a)
	70 2-Chlorotoluene	91	18.861	18.861	(0.953)	9809	0.50000	0.5086
	71 1,3,5-Trimethylbenzene	105	18.890	18.890	(0.955)	9254	0.50000	0.5037
	72 4-Chlorotoluene	91	18.989	18.989	(0.960)	8559	0.50000	0.4754(a)
	73 tert-Butylbenzene	119	19.265	19.265	(0.974)	6790	0.50000	0.4688(a)
	74 1,2,4-Trimethylbenzene	105	19.334	19.334	(0.977)	9853	0.50000	0.5191
	75 sec-Butylbenzene	105	19.512	19.512	(0.986)	11585	0.50000	0.5030
	76 para-Isopropyl Toluene	119	19.650	19.650	(0.993)	8734	0.50000	0.4918(a)

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\IB616.D
Report Date: 08-Feb-2006 14:16

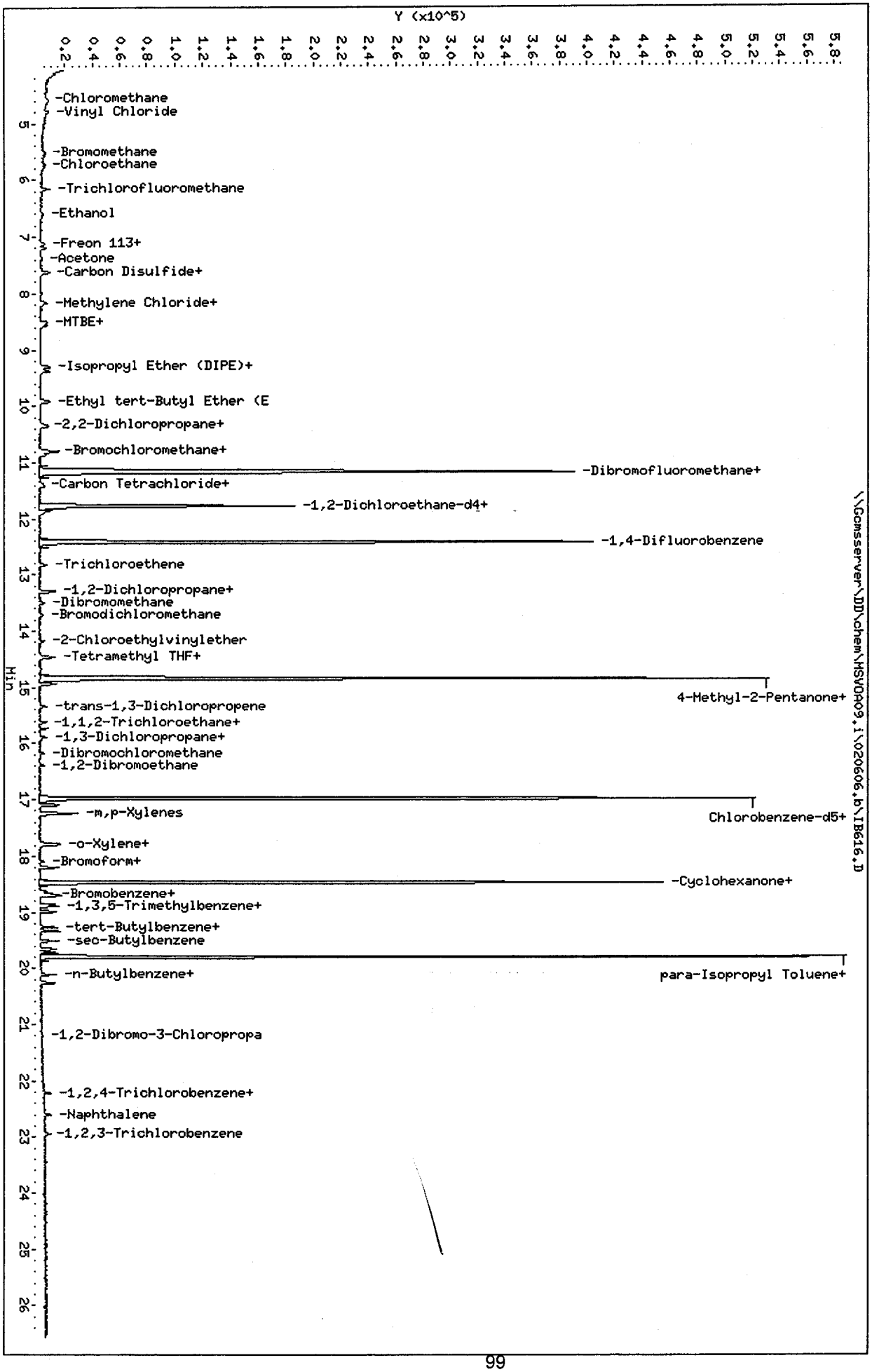
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	19.719	19.719	(0.997)	5683	0.50000	0.4995(a)
* 78 1,4-Dichlorobenzene-d4	152	19.788	19.788	(1.000)	171598	50.0000	
79 1,4-Dichlorobenzene	146	19.827	19.827	(1.002)	5889	0.50000	0.4990(a)
80 n-Butylbenzene	91	20.113	20.113	(1.016)	8155	0.50000	0.4885(a)
81 1,2-Dichlorobenzene	146	20.261	20.261	(1.024)	5575	0.50000	0.5108
82 1,2-Dibromo-3-Chloropropane	75	21.188	21.188	(1.071)	631	0.50000	0.5201
83 1,2,4-Trichlorobenzene	180	22.214	22.214	(1.123)	2331	0.50000	0.4184(a)
84 Hexachlorobutadiene	225	22.322	22.322	(1.128)	624	0.50000	0.9381
85 Naphthalene	128	22.599	22.599	(1.142)	5829	0.50000	0.3960(a)
86 1,2,3-Trichlorobenzene	180	22.934	22.934	(1.159)	2153	0.50000	0.4161(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA09.i\020606.b\IB616.D
Date : 06-FEB-2006 18:43
Client ID: DYNA P&T
Sample Info: ICAL,S2552,0.002/1000,S2349,0.001/1000,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: VOC
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\IB617.D
Report Date: 07-Feb-2006 12:46

Laboratory Name

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\IB617.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 06-FEB-2006 19:19 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2552,0.002/500,S2349,0.002/500,
Misc Info : S2028,0.001/500,2PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\826GOX9W.m
Meth Date : 07-Feb-2006 12:46 msvoa10 Quant Type: ISTD
Cal Date : 06-FEB-2006 19:19 Cal File: IB617.D
Als bottle: 17 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA10

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.126	4.126	(0.370)	23764	2.00000	2.3836
2 Chloromethane	50	4.580	4.580	(0.410)	27938	2.00000	2.3130
3 Vinyl Chloride	62	4.787	4.787	(0.429)	19464	2.00000	2.2394
4 Bromomethane	94	5.517	5.517	(0.494)	7378	2.00000	1.7853(M)
5 Chloroethane	64	5.724	5.724	(0.513)	9725	2.00000	2.1846(M)
6 Trichlorofluoromethane	101	6.158	6.158	(0.552)	20189	2.00000	2.3781
7 Ethanol	45	6.582	6.582	(0.590)	18658	200.000	194.8671(AM)
8 Freon 113	101	7.105	7.105	(0.637)	10807	2.00000	1.9784
9 1,1-Dichloroethene	96	7.184	7.184	(0.644)	11072	2.00000	2.1394
10 Acetone	43	7.371	7.371	(0.661)	5586	2.00000	2.4260
11 Isopropanol	45	7.558	7.558	(0.677)	8071	20.0000	18.3255(AM)
12 Carbon Disulfide	76	7.618	7.618	(0.683)	46263	2.00000	2.0140
13 Methylene Chloride	84	8.160	8.160	(0.731)	15757	2.00000	2.2699
14 tert-Butyl Alcohol (TBA)	59	8.269	8.269	(0.741)	9677	20.0000	18.5964(AM)
15 MTBE	73	8.505	8.505	(0.762)	32691	2.00000	2.0247
16 trans-1,2-Dichloroethene	96	8.564	8.564	(0.768)	12986	2.00000	2.0993
17 Isopropyl Ether (DIPE)	45	9.294	9.294	(0.833)	46632	2.00000	1.9864(A)
18 1,1-Dichloroethane	63	9.363	9.363	(0.839)	21482	2.00000	2.0199
19 Vinyl Acetate	43	9.373	9.373	(0.840)	30892	2.00000	1.9752
20 Ethyl tert-Butyl Ether (ETBE)	59	9.916	9.916	(0.889)	38992	2.00000	2.0096(A)
21 2,2-Dichloropropane	77	10.320	10.320	(0.925)	14389	2.00000	2.0179
22 cis-1,2-Dichloroethene	96	10.359	10.359	(0.928)	14361	2.00000	2.1349

SOJ 2/8/06

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\IB617.D
Report Date: 07-Feb-2006 12:46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 2-Butanone	43	10.379	10.379	(0.930)	6514	2.00000	1.9284
	24 Bromochloromethane	128	10.774	10.774	(0.966)	6775	2.00000	1.9903
	25 Tetrahydrofuran	42	10.793	10.793	(0.967)	39305	20.0000	20.4960(A)
	26 Chloroform	83	10.852	10.852	(0.973)	20256	2.00000	2.0539
$	27 Dibromofluoromethane	113	11.138	11.138	(0.998)	156242	50.0000	51.1051
	28 1,1,1-Trichloroethane	97	11.158	11.158	(1.000)	13838	2.00000	1.9846
*	29 Pentafluorobenzene	168	11.158	11.158	(1.000)	266009	50.0000	
	30 Carbon Tetrachloride	117	11.375	11.375	(0.917)	10898	2.00000	1.8875
	31 1,1-Dichloropropene	75	11.415	11.415	(0.920)	14428	2.00000	1.9652
$	32 1,2-Dichloroethane-d4	65	11.760	11.760	(0.948)	144862	50.0000	50.4566
	33 Benzene	78	11.770	11.770	(0.948)	47655	2.00000	2.0419
	34 Methyl tert-Amyl Ether (TAME)	73	11.849	11.849	(0.955)	34027	2.00000	1.9759(A)
	35 1,2-Dichloroethane	62	11.898	11.898	(0.959)	14432	2.00000	1.9771
*	36 1,4-Difluorobenzene	114	12.411	12.411	(1.000)	453598	50.0000	
	37 Trichloroethene	95	12.825	12.825	(1.033)	11234	2.00000	2.0025
	38 1,2-Dichloropropane	63	13.288	13.288	(1.071)	13400	2.00000	2.0392
$	39 Trifluorotoluene	146	13.298	13.298	(1.072)	20786	2.00000	1.9657(A)
	40 Dibromomethane	93	13.496	13.496	(1.087)	8989	2.00000	2.0732
	41 Bromodichloromethane	83	13.703	13.703	(1.104)	14827	2.00000	2.0041
	42 2-Chloroethylvinylether	63	14.176	14.176	(1.142)	4489	2.00000	1.6168
	43 Tetramethyl THF	43	14.442	14.442	(1.164)	27333	2.00000	2.0165(A)
	44 cis-1,3-Dichloropropene	75	14.452	14.452	(1.164)	20298	2.00000	2.0423
	45 4-Methyl-2-Pentanone	43	14.659	14.659	(1.181)	11999	2.00000	1.8076
$	46 Toluene-d8	98	14.827	14.827	(1.195)	439935	50.0000	49.5177
	47 Toluene	92	14.935	14.935	(1.203)	26482	2.00000	1.9475
	48 trans-1,3-Dichloropropene	75	15.340	15.340	(1.236)	17223	2.00000	1.9570
	49 1,1,2-Trichloroethane	85	15.616	15.616	(1.258)	6092	2.00000	1.9970
	50 Tetrachloroethene	166	15.734	15.734	(0.927)	9364	2.00000	1.9128
	51 1,3-Dichloropropane	76	15.892	15.892	(0.937)	18516	2.00000	1.9482
	52 2-Hexanone	43	15.932	15.932	(0.939)	7671	2.00000	1.7316
	53 Dibromochloromethane	129	16.178	16.178	(0.954)	11132	2.00000	1.8819
	54 1,2-Dibromoethane	107	16.385	16.385	(1.320)	12430	2.00000	1.9670
*	55 Chlorobenzene-d5	117	16.967	16.967	(1.000)	357278	50.0000	
	56 Chlorobenzene	112	17.006	17.006	(1.002)	29894	2.00000	2.0109
	57 Ethylbenzene	91	17.095	17.095	(1.008)	47098	2.00000	1.9781
	58 1,1,1,2-Tetrachloroethane	131	17.115	17.115	(1.009)	10511	2.00000	2.0779
	59 m,p-Xylenes	106	17.243	17.243	(1.016)	36474	4.00000	4.0039
	60 o-Xylene	106	17.776	17.776	(1.048)	17971	2.00000	2.0108
	61 Styrene	104	17.795	17.795	(1.049)	31058	2.00000	1.9313
	62 Bromoform	173	18.091	18.091	(1.066)	7604	2.00000	1.8228
	63 Isopropylbenzene	105	18.200	18.200	(0.919)	41700	2.00000	1.9703
	64 Cyclohexanone	55	18.446	18.446	(0.932)	17798	20.0000	23.5171(A)
$	65 Bromofluorobenzene	95	18.456	18.456	(0.932)	189286	50.0000	50.5240
	66 1,1,2,2-Tetrachloroethane	83	18.624	18.624	(0.941)	15223	2.00000	2.0075
	67 Bromobenzene	156	18.663	18.663	(0.943)	12575	2.00000	2.0199
	68 Propylbenzene	91	18.693	18.693	(0.944)	53623	2.00000	2.0090
	69 1,2,3-Trichloropropane	110	18.713	18.713	(0.945)	3685	2.00000	1.9318
	70 2-Chlorotoluene	91	18.861	18.861	(0.953)	37025	2.00000	2.0039
	71 1,3,5-Trimethylbenzene	105	18.890	18.890	(0.954)	33943	2.00000	1.9285
	72 4-Chlorotoluene	91	18.989	18.989	(0.959)	36013	2.00000	2.0877
	73 tert-Butylbenzene	119	19.265	19.265	(0.973)	26904	2.00000	1.9387
	74 1,2,4-Trimethylbenzene	105	19.334	19.334	(0.977)	35648	2.00000	1.9604
	75 sec-Butylbenzene	105	19.511	19.511	(0.986)	41041	2.00000	1.8600
	76 para-Isopropyl Toluene	119	19.659	19.659	(0.993)	31678	2.00000	1.8617

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\IB617.D
Report Date: 07-Feb-2006 12:46

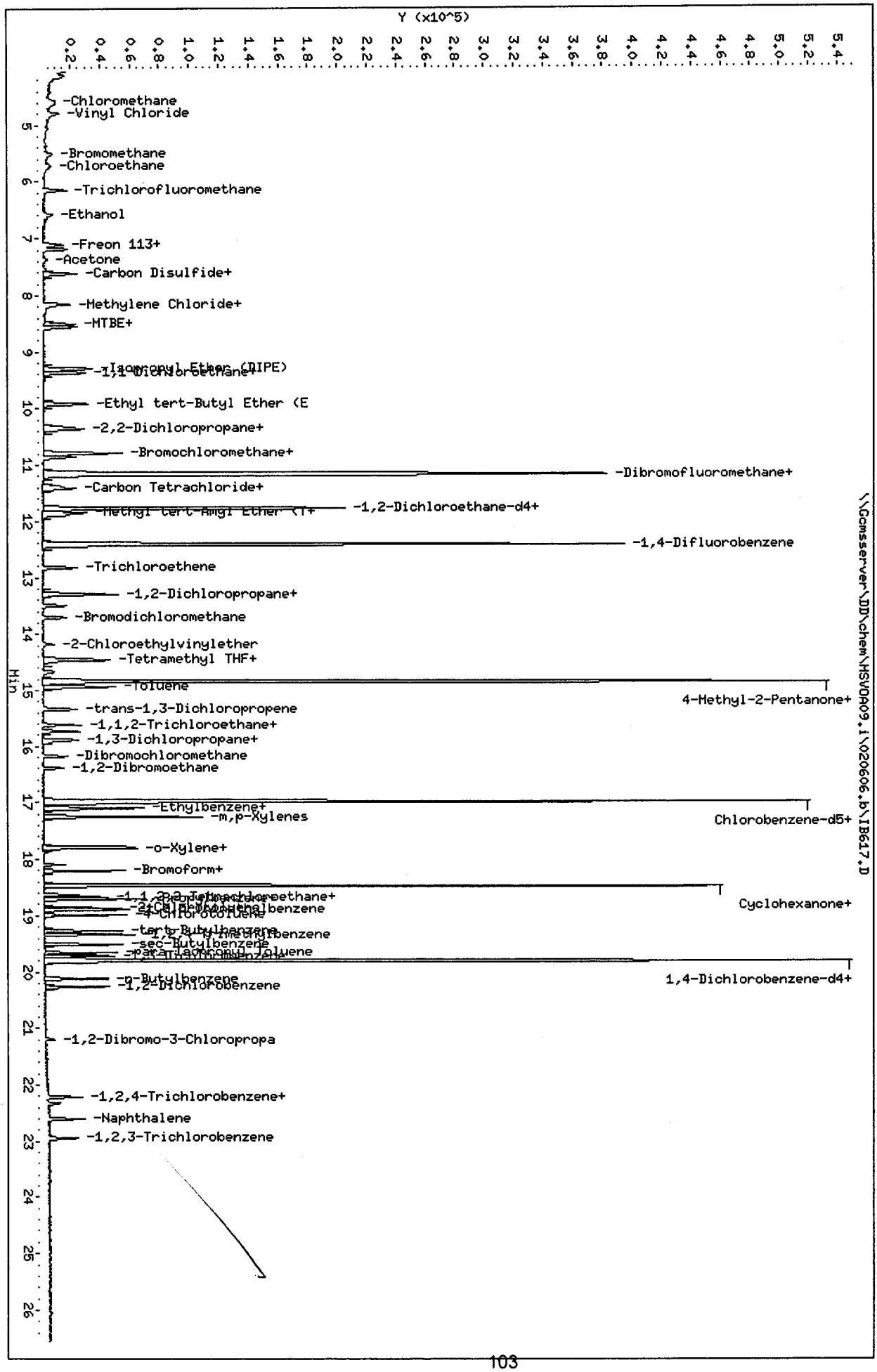
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	19.719	19.719	(0.996)	21899	2.00000	2.0091
* 78 1,4-Dichlorobenzene-d4	152	19.797	19.797	(1.000)	164412	50.0000	
79 1,4-Dichlorobenzene	146	19.817	19.817	(1.001)	23216	2.00000	2.0534
80 n-Butylbenzene	91	20.113	20.113	(1.016)	29007	2.00000	1.8136
81 1,2-Dichlorobenzene	146	20.261	20.261	(1.023)	20417	2.00000	1.9527
82 1,2-Dibromo-3-Chloropropane	75	21.198	21.198	(1.071)	2356	2.00000	2.0269
83 1,2,4-Trichlorobenzene	180	22.214	22.214	(1.122)	10094	2.00000	1.8911
84 Hexachlorobutadiene	225	22.332	22.332	(1.128)	2477	2.00000	1.5934
85 Naphthalene	128	22.598	22.598	(1.141)	26005	2.00000	1.8441
86 1,2,3-Trichlorobenzene	180	22.944	22.944	(1.159)	9188	2.00000	1.8536

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Ccmsserver\DD\chem\MSVOA09.i\020606.b\IB617.D
Date : 06-FEB-2006 19:19
Client ID: DYNA P&T
Sample Info: ICAL,S2552,0.002/500,S2349,0.002/500,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: VOC
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\IB618.D
Report Date: 07-Feb-2006 12:46

Laboratory Name

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\IB618.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 06-FEB-2006 19:58 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2552,0.005/500,S2349,0.005/500,
Misc Info : S2028,0.0025/500,5PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\826GOX9W.m
Meth Date : 07-Feb-2006 12:46 msvoa10 Quant Type: ISTD
Cal Date : 06-FEB-2006 19:58 Cal File: IB618.D
Als bottle: 18 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA10

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.136	4.136	(0.370)	53194	5.00000	5.0191
2 Chloromethane	50	4.599	4.599	(0.412)	66821	5.00000	5.2041
3 Vinyl Chloride	62	4.787	4.787	(0.429)	46366	5.00000	5.0184
4 Bromomethane	94	5.517	5.517	(0.494)	18938	5.00000	4.3109
5 Chloroethane	64	5.714	5.714	(0.512)	25063	5.00000	5.2964
6 Trichlorofluoromethane	101	6.158	6.158	(0.551)	44769	5.00000	4.9609
7 Ethanol	45	6.591	6.591	(0.590)	54464	500.000	535.1042(AM)
8 Freon 113	101	7.114	7.114	(0.637)	21143	5.00000	3.6411
9 1,1-Dichloroethene	96	7.193	7.193	(0.644)	26650	5.00000	4.8443
10 Acetone	43	7.371	7.371	(0.660)	12601	5.00000	5.1481
11 Isopropanol	45	7.558	7.558	(0.677)	23975	50.0000	51.2086(AM)
12 Carbon Disulfide	76	7.617	7.617	(0.682)	115748	5.00000	4.7403
13 Methylene Chloride	84	8.160	8.160	(0.731)	37802	5.00000	5.1227
14 tert-Butyl Alcohol (TBA)	59	8.268	8.268	(0.740)	28550	50.0000	51.6119(AM)
15 MTBE	73	8.505	8.505	(0.762)	88373	5.00000	5.1488
16 trans-1,2-Dichloroethene	96	8.564	8.564	(0.767)	31726	5.00000	4.8248
17 Isopropyl Ether (DIPE)	45	9.304	9.304	(0.833)	130025	5.00000	5.2105(A)
18 1,1-Dichloroethane	63	9.373	9.373	(0.839)	58842	5.00000	5.2049
19 Vinyl Acetate	43	9.373	9.373	(0.839)	89110	5.00000	5.3598
20 Ethyl tert-Butyl Ether (ETBE)	59	9.915	9.915	(0.888)	104360	5.00000	5.0598(A)
21 2,2-Dichloropropane	77	10.329	10.329	(0.925)	36773	5.00000	4.8512
22 cis-1,2-Dichloroethene	96	10.359	10.359	(0.928)	36136	5.00000	5.0535

SM 2/8/06

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\IB618.D
Report Date: 07-Feb-2006 12:46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 2-Butanone	43	10.379	10.379	(0.929)	17894	5.00000	4.9833
	24 Bromochloromethane	128	10.773	10.773	(0.965)	18532	5.00000	5.1214
	25 Tetrahydrofuran	42	10.793	10.793	(0.966)	105872	50.0000	51.9347(A)
	26 Chloroform	83	10.852	10.852	(0.972)	53904	5.00000	5.1418
$	27 Dibromofluoromethane	113	11.138	11.138	(0.997)	165334	50.0000	50.8726
	28 1,1,1-Trichloroethane	97	11.148	11.148	(0.998)	34512	5.00000	4.6563
*	29 Pentafluorobenzene	168	11.168	11.168	(1.000)	282775	50.0000	
	30 Carbon Tetrachloride	117	11.375	11.375	(0.917)	25248	5.00000	4.1212
	31 1,1-Dichloropropene	75	11.414	11.414	(0.920)	34430	5.00000	4.4196
$	32 1,2-Dichloroethane-d4	65	11.769	11.769	(0.948)	157023	50.0000	51.5433
	33 Benzene	78	11.769	11.769	(0.948)	122530	5.00000	4.9479
	34 Methyl tert-Amyl Ether (TAME)	73	11.848	11.848	(0.955)	90116	5.00000	4.9317(A)
	35 1,2-Dichloroethane	62	11.888	11.888	(0.958)	41000	5.00000	5.2935
*	36 1,4-Difluorobenzene	114	12.410	12.410	(1.000)	481311	50.0000	
	37 Trichloroethene	95	12.824	12.824	(1.033)	28108	5.00000	4.7220
	38 1,2-Dichloropropane	63	13.288	13.288	(1.071)	35776	5.00000	5.1311
$	39 Trifluorotoluene	146	13.298	13.298	(1.072)	44609	5.00000	3.9758(A)
	40 Dibromomethane	93	13.495	13.495	(1.087)	23543	5.00000	5.1173
	41 Bromodichloromethane	83	13.702	13.702	(1.104)	39057	5.00000	4.9752
	42 2-Chloroethylvinylether	63	14.176	14.176	(1.142)	14787	5.00000	5.0194
	43 Tetramethyl THF	43	14.442	14.442	(1.164)	73866	5.00000	5.1358(A)
	44 cis-1,3-Dichloropropene	75	14.452	14.452	(1.164)	53841	5.00000	5.1053
	45 4-Methyl-2-Pentanone	43	14.659	14.659	(1.181)	35229	5.00000	5.0017
$	46 Toluene-d8	98	14.826	14.826	(1.195)	465998	50.0000	49.4312
	47 Toluene	92	14.935	14.935	(1.203)	68527	5.00000	4.7495
	48 trans-1,3-Dichloropropene	75	15.339	15.339	(1.236)	46918	5.00000	5.0243
	49 1,1,2-Trichloroethane	85	15.615	15.615	(1.258)	16438	5.00000	5.0782
	50 Tetrachloroethene	166	15.734	15.734	(0.927)	21450	5.00000	4.1399
	51 1,3-Dichloropropane	76	15.892	15.892	(0.937)	52419	5.00000	5.2111
	52 2-Hexanone	43	15.921	15.921	(0.938)	23177	5.00000	4.9433
	53 Dibromochloromethane	129	16.178	16.178	(0.953)	31399	5.00000	5.0152
	54 1,2-Dibromoethane	107	16.385	16.385	(1.320)	33885	5.00000	5.0535
*	55 Chlorobenzene-d5	117	16.967	16.967	(1.000)	378139	50.0000	
	56 Chlorobenzene	112	17.016	17.016	(1.003)	76714	5.00000	4.8757
	57 Ethylbenzene	91	17.085	17.085	(1.007)	113313	5.00000	4.4967
	58 1,1,1,2-Tetrachloroethane	131	17.105	17.105	(1.008)	26311	5.00000	4.9145
	59 m,p-Xylenes	106	17.243	17.243	(1.016)	88016	10.0000	9.1290
	60 o-Xylene	106	17.775	17.775	(1.048)	44759	5.00000	4.7320
	61 Styrene	104	17.795	17.795	(1.049)	82159	5.00000	4.8272
	62 Bromoform	173	18.091	18.091	(1.066)	21051	5.00000	4.7678
	63 Isopropylbenzene	105	18.199	18.199	(0.919)	95531	5.00000	4.2604
	64 Cyclohexanone	55	18.446	18.446	(0.932)	34848	50.0000	43.4608(A)
$	65 Bromofluorobenzene	95	18.456	18.456	(0.932)	200365	50.0000	50.4787
	66 1,1,2,2-Tetrachloroethane	83	18.623	18.623	(0.941)	40763	5.00000	5.0738
	67 Bromobenzene	156	18.663	18.663	(0.943)	30991	5.00000	4.6987
	68 Propylbenzene	91	18.692	18.692	(0.944)	119877	5.00000	4.2391
	69 1,2,3-Trichloropropane	110	18.712	18.712	(0.945)	10512	5.00000	5.2015
	70 2-Chlorotoluene	91	18.860	18.860	(0.953)	93332	5.00000	4.7678
	71 1,3,5-Trimethylbenzene	105	18.890	18.890	(0.954)	82167	5.00000	4.4064
	72 4-Chlorotoluene	91	18.988	18.988	(0.959)	86971	5.00000	4.7588
	73 tert-Butylbenzene	119	19.264	19.264	(0.973)	61092	5.00000	4.1552
	74 1,2,4-Trimethylbenzene	105	19.333	19.333	(0.977)	86932	5.00000	4.5123
	75 sec-Butylbenzene	105	19.511	19.511	(0.986)	91942	5.00000	3.9331
	76 para-Isopropyl Toluene	119	19.659	19.659	(0.993)	73037	5.00000	4.0514

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\IB618.D
Report Date: 07-Feb-2006 12:46

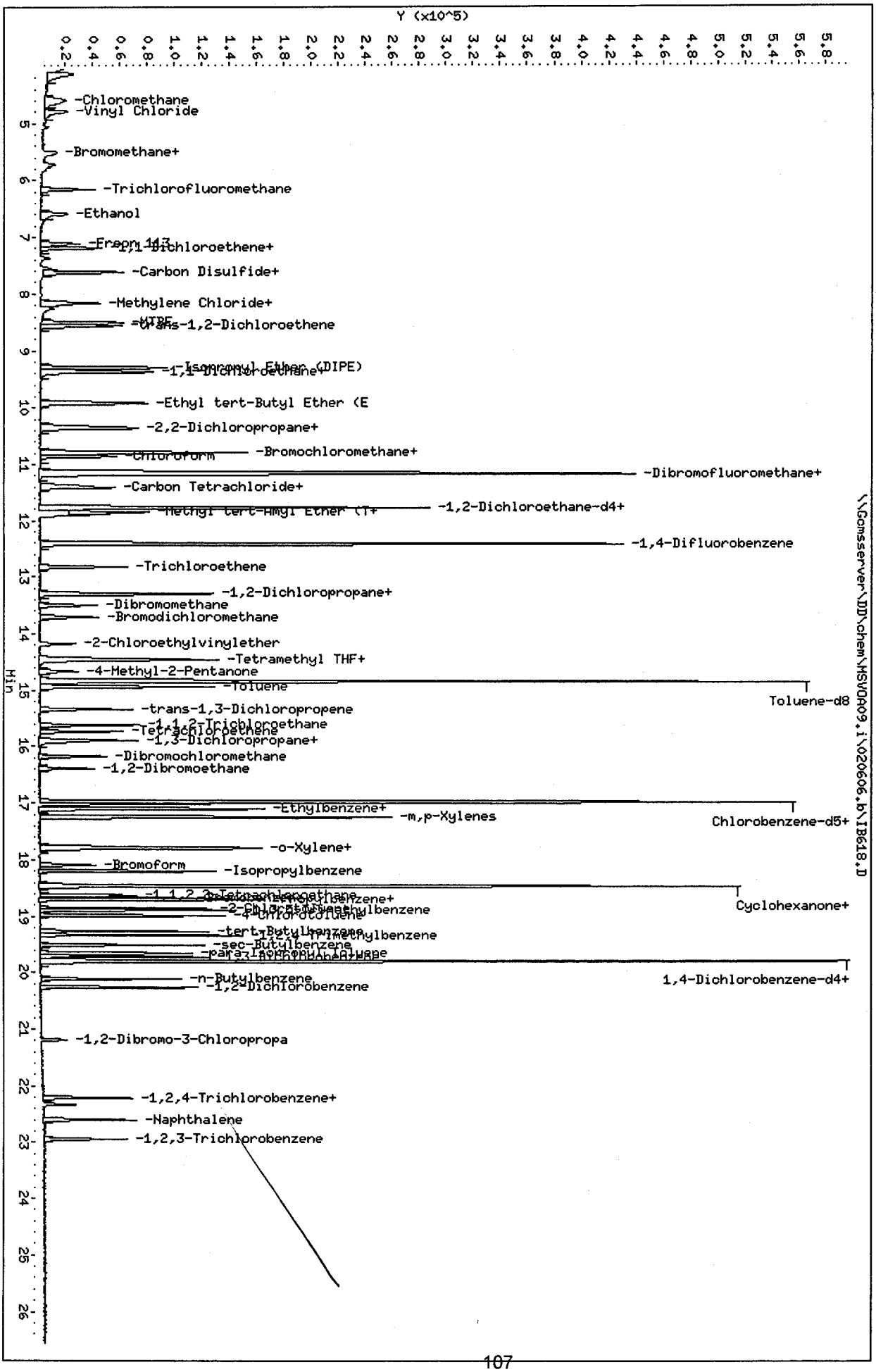
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	19.718	19.718	(0.996)	54568	5.00000	4.7252
* 78 1,4-Dichlorobenzene-d4	152	19.797	19.797	(1.000)	174191	50.0000	
79 1,4-Dichlorobenzene	146	19.817	19.817	(1.001)	57701	5.00000	4.8170
80 n-Butylbenzene	91	20.113	20.113	(1.016)	67013	5.00000	3.9547
81 1,2-Dichlorobenzene	146	20.261	20.261	(1.023)	53394	5.00000	4.8201
82 1,2-Dibromo-3-Chloropropane	75	21.188	21.188	(1.070)	6241	5.00000	5.0679
83 1,2,4-Trichlorobenzene	180	22.213	22.213	(1.122)	25731	5.00000	4.5502
84 Hexachlorobutadiene	225	22.332	22.332	(1.128)	6295	5.00000	3.8223
85 Naphthalene	128	22.598	22.598	(1.141)	71705	5.00000	4.7995
86 1,2,3-Trichlorobenzene	180	22.943	22.943	(1.159)	24306	5.00000	4.6282

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA09.i\020606.b\IB618.D
Date : 06-FEB-2006 19:58
Client ID: DYNA P&T
Sample Info: ICAL,S2552,0.005/500,S2349,0.005/500,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: VOC
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\IB619.D
Report Date: 07-Feb-2006 12:47

Laboratory Name

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\IB619.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 06-FEB-2006 20:33 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2552,0.002/100,S2349,0.002/100,
Misc Info : S2028,0.001/100,10PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\826GOX9W.m
Meth Date : 07-Feb-2006 12:46 msvoa10 Quant Type: ISTD
Cal Date : 06-FEB-2006 20:33 Cal File: IB619.D
Als bottle: 19 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA10

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.128	4.128	(0.370)	97914	10.0000	9.7625
2 Chloromethane	50	4.581	4.581	(0.411)	121051	10.0000	9.9622
3 Vinyl Chloride	62	4.779	4.779	(0.428)	85636	10.0000	9.7942
4 Bromomethane	94	5.509	5.509	(0.494)	36958	10.0000	8.8898(M)
5 Chloroethane	64	5.716	5.716	(0.512)	45240	10.0000	10.1023
6 Trichlorofluoromethane	101	6.150	6.150	(0.551)	86525	10.0000	10.1315
7 Ethanol	45	6.584	6.584	(0.590)	95434	1000.00	990.7871(AM)
8 Freon 113	101	7.106	7.106	(0.637)	44967	10.0000	8.1830
9 1,1-Dichloroethene	96	7.185	7.185	(0.644)	47446	10.0000	9.1135
10 Acetone	43	7.363	7.363	(0.660)	24602	10.0000	10.6210
11 Isopropanol	45	7.550	7.550	(0.677)	43317	100.000	97.7667(AM)
12 Carbon Disulfide	76	7.619	7.619	(0.683)	219309	10.0000	9.4908
13 Methylene Chloride	84	8.161	8.161	(0.731)	69832	10.0000	9.9998
14 tert-Butyl Alcohol (TBA)	59	8.260	8.260	(0.740)	50597	100.000	96.6535(AM)
15 MTBE	73	8.507	8.507	(0.762)	162167	10.0000	9.9839
16 trans-1,2-Dichloroethene	96	8.556	8.556	(0.767)	60144	10.0000	9.6650
17 Isopropyl Ether (DIPE)	45	9.296	9.296	(0.833)	238034	10.0000	10.0796(A)
18 1,1-Dichloroethane	63	9.365	9.365	(0.839)	108488	10.0000	10.1404
19 Vinyl Acetate	43	9.375	9.375	(0.840)	148192	10.0000	9.4188
20 Ethyl tert-Butyl Ether (ETBE)	59	9.907	9.907	(0.888)	195128	10.0000	9.9971(A)
21 2,2-Dichloropropane	77	10.321	10.321	(0.925)	67173	10.0000	9.3641
22 cis-1,2-Dichloroethene	96	10.361	10.361	(0.928)	66281	10.0000	9.7946

bb 2/8/06

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\IB619.D
Report Date: 07-Feb-2006 12:47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 2-Butanone	43	10.380	10.380	(0.930)	34305	10.0000	10.0954
	24 Bromochloromethane	128	10.775	10.775	(0.966)	34282	10.0000	10.0111
	25 Tetrahydrofuran	42	10.785	10.785	(0.966)	186937	100.000	96.8993(A)
	26 Chloroform	83	10.854	10.854	(0.973)	98988	10.0000	9.9776
$	27 Dibromofluoromethane	113	11.140	11.140	(0.998)	160772	50.0000	52.2734
	28 1,1,1-Trichloroethane	97	11.150	11.150	(0.999)	65172	10.0000	9.2914
*	29 Pentafluorobenzene	168	11.160	11.160	(1.000)	267604	50.0000	
	30 Carbon Tetrachloride	117	11.377	11.377	(0.917)	50794	10.0000	8.7194
	31 1,1-Dichloropropene	75	11.416	11.416	(0.920)	66005	10.0000	8.9104
$	32 1,2-Dichloroethane-d4	65	11.761	11.761	(0.948)	149277	50.0000	51.5320
	33 Benzene	78	11.771	11.771	(0.949)	222715	10.0000	9.4581
	34 Methyl tert-Amyl Ether (TAME)	73	11.850	11.850	(0.955)	169613	10.0000	9.7618(A)
	35 1,2-Dichloroethane	62	11.889	11.889	(0.959)	73509	10.0000	9.9810
*	36 1,4-Difluorobenzene	114	12.402	12.402	(1.000)	457668	50.0000	
	37 Trichloroethene	95	12.826	12.826	(1.034)	53332	10.0000	9.4223
	38 1,2-Dichloropropane	63	13.290	13.290	(1.072)	65989	10.0000	9.9533
$	39 Trifluorotoluene	146	13.300	13.300	(1.072)	87200	10.0000	8.1733(A)
	40 Dibromomethane	93	13.497	13.497	(1.088)	43752	10.0000	10.0013
	41 Bromodichloromethane	83	13.704	13.704	(1.105)	74055	10.0000	9.9207
	42 2-Chloroethylvinylether	63	14.177	14.177	(1.143)	25749	10.0000	9.1920
	43 Tetramethyl THF	43	14.434	14.434	(1.164)	134777	10.0000	9.8551(A)
	44 cis-1,3-Dichloropropene	75	14.454	14.454	(1.165)	98873	10.0000	9.8597
	45 4-Methyl-2-Pentanone	43	14.661	14.661	(1.182)	64736	10.0000	9.6658
$	46 Toluene-d8	98	14.828	14.828	(1.196)	450775	50.0000	50.2866
	47 Toluene	92	14.937	14.937	(1.204)	125831	10.0000	9.1717
	48 trans-1,3-Dichloropropene	75	15.331	15.331	(1.236)	88038	10.0000	9.9149
	49 1,1,2-Trichloroethane	85	15.617	15.617	(1.259)	30382	10.0000	9.8709
	50 Tetrachloroethene	166	15.736	15.736	(0.927)	40931	10.0000	8.1169
	51 1,3-Dichloropropane	76	15.884	15.884	(0.936)	95958	10.0000	9.8016
	52 2-Hexanone	43	15.923	15.923	(0.938)	42230	10.0000	9.2545
	53 Dibromochloromethane	129	16.179	16.179	(0.954)	57995	10.0000	9.5178
	54 1,2-Dibromoethane	107	16.387	16.387	(1.321)	63088	10.0000	9.8948
*	55 Chlorobenzene-d5	117	16.968	16.968	(1.000)	368028	50.0000	
	56 Chlorobenzene	112	17.008	17.008	(1.002)	141260	10.0000	9.2247
	57 Ethylbenzene	91	17.087	17.087	(1.007)	216675	10.0000	8.8348
	58 1,1,1,2-Tetrachloroethane	131	17.107	17.107	(1.008)	49247	10.0000	9.4513
	59 m,p-Xylenes	106	17.245	17.245	(1.016)	168900	20.0000	17.9996
	60 o-Xylene	106	17.767	17.767	(1.047)	84413	10.0000	9.1695
	61 Styrene	104	17.797	17.797	(1.049)	154845	10.0000	9.3478
	62 Bromoform	173	18.093	18.093	(1.066)	40949	10.0000	9.5294
	63 Isopropylbenzene	105	18.201	18.201	(0.920)	183171	10.0000	8.3856
	64 Cyclohexanone	55	18.438	18.438	(0.932)	87598	100.000	112.1447(A)
$	65 Bromofluorobenzene	95	18.458	18.458	(0.933)	191104	50.0000	49.4220
	66 1,1,2,2-Tetrachloroethane	83	18.625	18.625	(0.941)	74981	10.0000	9.5804
	67 Bromobenzene	156	18.665	18.665	(0.943)	58378	10.0000	9.0858
	68 Propylbenzene	91	18.694	18.694	(0.945)	234226	10.0000	8.5023
	69 1,2,3-Trichloropropane	110	18.714	18.714	(0.946)	19586	10.0000	9.9484
	70 2-Chlorotoluene	91	18.852	18.852	(0.953)	171488	10.0000	8.9926
	71 1,3,5-Trimethylbenzene	105	18.892	18.892	(0.955)	156196	10.0000	8.5985
	72 4-Chlorotoluene	91	18.990	18.990	(0.960)	162950	10.0000	9.1525
	73 tert-Butylbenzene	119	19.266	19.266	(0.974)	118349	10.0000	8.2631
	74 1,2,4-Trimethylbenzene	105	19.335	19.335	(0.977)	166512	10.0000	8.8723
	75 sec-Butylbenzene	105	19.513	19.513	(0.986)	179806	10.0000	7.8956
	76 para-Isopropyl Toluene	119	19.651	19.651	(0.993)	145041	10.0000	8.2588

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\IB619.D
Report Date: 07-Feb-2006 12:47

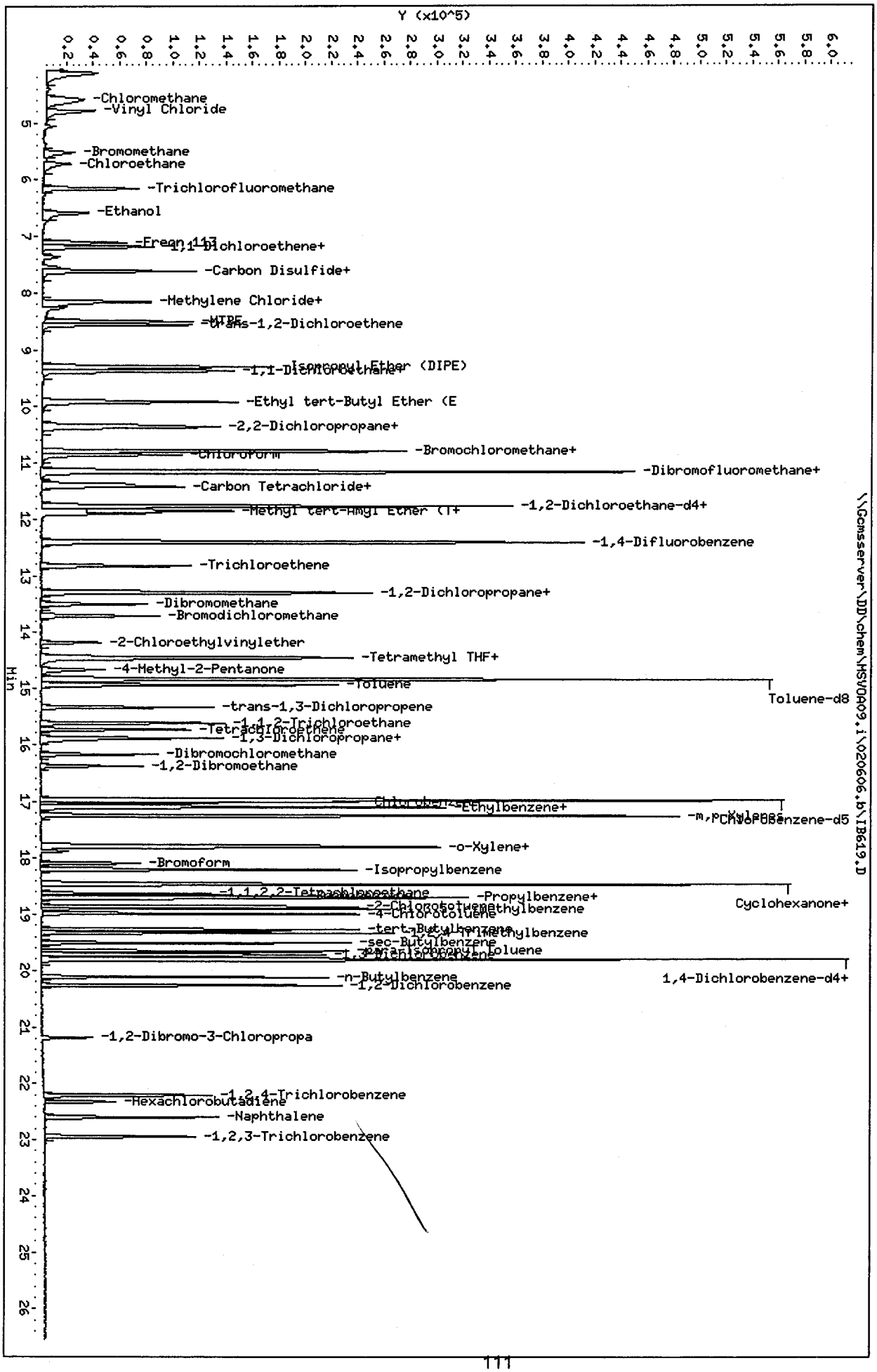
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	19.720	19.720	(0.997)	102218	10.0000	9.0860
* 78 1,4-Dichlorobenzene-d4	152	19.789	19.789	(1.000)	169692	50.0000	
79 1,4-Dichlorobenzene	146	19.819	19.819	(1.001)	105355	10.0000	9.0285
80 n-Butylbenzene	91	20.114	20.114	(1.016)	134225	10.0000	8.1312
81 1,2-Dichlorobenzene	146	20.262	20.262	(1.024)	101680	10.0000	9.4224
82 1,2-Dibromo-3-Chloropropane	75	21.189	21.189	(1.071)	11728	10.0000	9.7760
83 1,2,4-Trichlorobenzene	180	22.205	22.205	(1.122)	51146	10.0000	9.2843
84 Hexachlorobutadiene	225	22.333	22.333	(1.129)	13596	10.0000	8.4743
85 Naphthalene	128	22.600	22.600	(1.142)	141137	10.0000	9.6974
86 1,2,3-Trichlorobenzene	180	22.945	22.945	(1.159)	48864	10.0000	9.5512

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA09.i\020606.b\IB619.D
Date : 06-FEB-2006 20:33
Client ID: DYNA P&T
Sample Info: ICAL,S2552,0.002/100,S2349,0.002/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: VOC
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\IB620.D
Report Date: 07-Feb-2006 12:47

Laboratory Name

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\IB620.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 06-FEB-2006 21:09 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2552,0.004/100,S2349,0.004/100,
Misc Info : S2028,0.002/100,20PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\826GOX9W.m
Meth Date : 07-Feb-2006 12:47 msvoa10 Quant Type: ISTD
Cal Date : 06-FEB-2006 21:09 Cal File: IB620.D
Als bottle: 20 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA10

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.115	4.115	(0.369)	179650	20.0000	17.8426
2 Chloromethane	50	4.578	4.578	(0.410)	229565	20.0000	18.8194
3 Vinyl Chloride	62	4.785	4.785	(0.429)	162836	20.0000	18.5514
4 Bromomethane	94	5.505	5.505	(0.493)	82107	20.0000	19.6732
5 Chloroethane	64	5.712	5.712	(0.512)	87456	20.0000	19.4536
6 Trichlorofluoromethane	101	6.146	6.146	(0.551)	154364	20.0000	18.0049
7 Ethanol	45	6.570	6.570	(0.589)	199839	2000.00	2066.6633(A)
8 Freon 113	101	7.103	7.103	(0.637)	122102	20.0000	22.1337
9 1,1-Dichloroethene	96	7.182	7.182	(0.644)	107174	20.0000	20.5064
10 Acetone	43	7.359	7.359	(0.660)	50850	20.0000	21.8674
11 Isopropanol	45	7.537	7.537	(0.676)	91108	200.000	204.8337(AM)
12 Carbon Disulfide	76	7.616	7.616	(0.683)	479820	20.0000	20.6842
13 Methylene Chloride	84	8.158	8.158	(0.731)	141129	20.0000	20.1310
14 tert-Butyl Alcohol (TBA)	59	8.257	8.257	(0.740)	105624	200.000	200.9868(AM)
15 MTBE	73	8.503	8.503	(0.762)	335303	20.0000	20.5632
16 trans-1,2-Dichloroethene	96	8.563	8.563	(0.768)	122782	20.0000	19.6544
17 Isopropyl Ether (DIPE)	45	9.292	9.292	(0.833)	498066	20.0000	21.0090(A)
18 1,1-Dichloroethane	63	9.361	9.361	(0.839)	222378	20.0000	20.7051
19 Vinyl Acetate	43	9.371	9.371	(0.840)	304263	20.0000	19.2634
20 Ethyl tert-Butyl Ether (ETBE)	59	9.904	9.904	(0.888)	411923	20.0000	21.0225(A)
21 2,2-Dichloropropane	77	10.318	10.318	(0.925)	148437	20.0000	20.6123
22 cis-1,2-Dichloroethene	96	10.357	10.357	(0.928)	137199	20.0000	20.1959

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 2-Butanone	43	10.367	10.367	(0.929)	71822	20.0000	21.0540
	24 Bromochloromethane	128	10.772	10.772	(0.966)	68613	20.0000	19.9589
	25 Tetrahydrofuran	42	10.782	10.782	(0.966)	390305	200.000	201.5310(A)
	26 Chloroform	83	10.851	10.851	(0.973)	202911	20.0000	20.3733
$	27 Dibromofluoromethane	113	11.137	11.137	(0.998)	155599	50.0000	50.3952
	28 1,1,1-Trichloroethane	97	11.146	11.146	(0.999)	151163	20.0000	21.4675
*	29 Pentafluorobenzene	168	11.156	11.156	(1.000)	268646	50.0000	
	30 Carbon Tetrachloride	117	11.373	11.373	(0.917)	126011	20.0000	21.6969
	31 1,1-Dichloropropene	75	11.413	11.413	(0.920)	158733	20.0000	21.4933
$	32 1,2-Dichloroethane-d4	65	11.758	11.758	(0.948)	145663	50.0000	50.4366
	33 Benzene	78	11.768	11.768	(0.948)	473375	20.0000	20.1638
	34 Methyl tert-Amyl Ether (TAME)	73	11.847	11.847	(0.955)	349467	20.0000	20.1738(A)
	35 1,2-Dichloroethane	62	11.886	11.886	(0.958)	149112	20.0000	20.3076
*	36 1,4-Difluorobenzene	114	12.409	12.409	(1.000)	456287	50.0000	
	37 Trichloroethene	95	12.823	12.823	(1.033)	119232	20.0000	21.1288
	38 1,2-Dichloropropane	63	13.287	13.287	(1.071)	136076	20.0000	20.5868
$	39 Trifluorotoluene	146	13.296	13.296	(1.072)	231068	20.0000	21.7238(A)
	40 Dibromomethane	93	13.494	13.494	(1.087)	90010	20.0000	20.6377
	41 Bromodichloromethane	83	13.701	13.701	(1.104)	154525	20.0000	20.7635
	42 2-Chloroethylvinylether	63	14.174	14.174	(1.142)	51509	20.0000	18.4437
	43 Tetramethyl THF	43	14.431	14.431	(1.163)	284324	20.0000	20.8531(A)
	44 cis-1,3-Dichloropropene	75	14.450	14.450	(1.165)	205674	20.0000	20.5721
	45 4-Methyl-2-Pentanone	43	14.657	14.657	(1.181)	133605	20.0000	20.0091
$	46 Toluene-d8	98	14.825	14.825	(1.195)	452037	50.0000	50.5800
	47 Toluene	92	14.934	14.934	(1.203)	284204	20.0000	20.7780
	48 trans-1,3-Dichloropropene	75	15.328	15.328	(1.235)	182354	20.0000	20.5990
	49 1,1,2-Trichloroethane	85	15.614	15.614	(1.258)	63276	20.0000	20.6202
	50 Tetrachloroethene	166	15.732	15.732	(0.927)	104298	20.0000	21.0101
	51 1,3-Dichloropropane	76	15.890	15.890	(0.936)	197533	20.0000	20.4958
	52 2-Hexanone	43	15.920	15.920	(0.938)	90454	20.0000	20.1359
	53 Dibromochloromethane	129	16.176	16.176	(0.953)	123893	20.0000	20.6541
	54 1,2-Dibromoethane	107	16.383	16.383	(1.320)	129889	20.0000	20.4337
*	55 Chlorobenzene-d5	117	16.975	16.975	(1.000)	362301	50.0000	
	56 Chlorobenzene	112	17.014	17.014	(1.002)	308838	20.0000	20.4869
	57 Ethylbenzene	91	17.093	17.093	(1.007)	517931	20.0000	21.4522
	58 1,1,1,2-Tetrachloroethane	131	17.113	17.113	(1.008)	108278	20.0000	21.1089
	59 m,p-Xylenes	106	17.241	17.241	(1.016)	395208	40.0000	42.7831
	60 o-Xylene	106	17.774	17.774	(1.047)	194046	20.0000	21.4118
	61 Styrene	104	17.794	17.794	(1.048)	346309	20.0000	21.2369
	62 Bromoform	173	18.089	18.089	(1.066)	85651	20.0000	20.2472
	63 Isopropylbenzene	105	18.198	18.198	(0.919)	465093	20.0000	21.2572
	64 Cyclohexanone	55	18.445	18.445	(0.932)	186762	200.000	238.7054(A)
$	65 Bromofluorobenzene	95	18.464	18.464	(0.933)	194314	50.0000	50.1700
	66 1,1,2,2-Tetrachloroethane	83	18.622	18.622	(0.941)	157726	20.0000	20.1199
	67 Bromobenzene	156	18.661	18.661	(0.943)	129246	20.0000	20.0826
	68 Propylbenzene	91	18.691	18.691	(0.944)	596801	20.0000	21.6284
	69 1,2,3-Trichloropropane	110	18.711	18.711	(0.945)	40158	20.0000	20.3643
	70 2-Chlorotoluene	91	18.859	18.859	(0.953)	396784	20.0000	20.7729
	71 1,3,5-Trimethylbenzene	105	18.888	18.888	(0.954)	392773	20.0000	21.5867
	72 4-Chlorotoluene	91	18.987	18.987	(0.959)	376153	20.0000	21.0931
	73 tert-Butylbenzene	119	19.263	19.263	(0.973)	315411	20.0000	21.9859
	74 1,2,4-Trimethylbenzene	105	19.332	19.332	(0.977)	398793	20.0000	21.2142
	75 sec-Butylbenzene	105	19.510	19.510	(0.986)	502304	20.0000	22.0212
	76 para-Isopropyl Toluene	119	19.658	19.658	(0.993)	390677	20.0000	22.2093

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\IB620.D
Report Date: 07-Feb-2006 12:47

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	19.717	19.717	(0.996)	229600	20.0000	20.3756
* 78 1,4-Dichlorobenzene-d4	152	19.796	19.796	(1.000)	169970	50.0000	
79 1,4-Dichlorobenzene	146	19.825	19.825	(1.001)	238837	20.0000	20.4339
80 n-Butylbenzene	91	20.121	20.121	(1.016)	376458	20.0000	22.7681
81 1,2-Dichlorobenzene	146	20.259	20.259	(1.023)	221066	20.0000	20.4521
82 1,2-Dibromo-3-Chloropropane	75	21.186	21.186	(1.070)	24044	20.0000	20.0094
83 1,2,4-Trichlorobenzene	180	22.212	22.212	(1.122)	119867	20.0000	21.7233
84 Hexachlorobutadiene	225	22.330	22.330	(1.128)	41985	20.0000	26.1263
85 Naphthalene	128	22.597	22.597	(1.141)	312912	20.0000	21.4649
86 1,2,3-Trichlorobenzene	180	22.942	22.942	(1.159)	111265	20.0000	21.7129

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA09.i\020606.b\IB620.D
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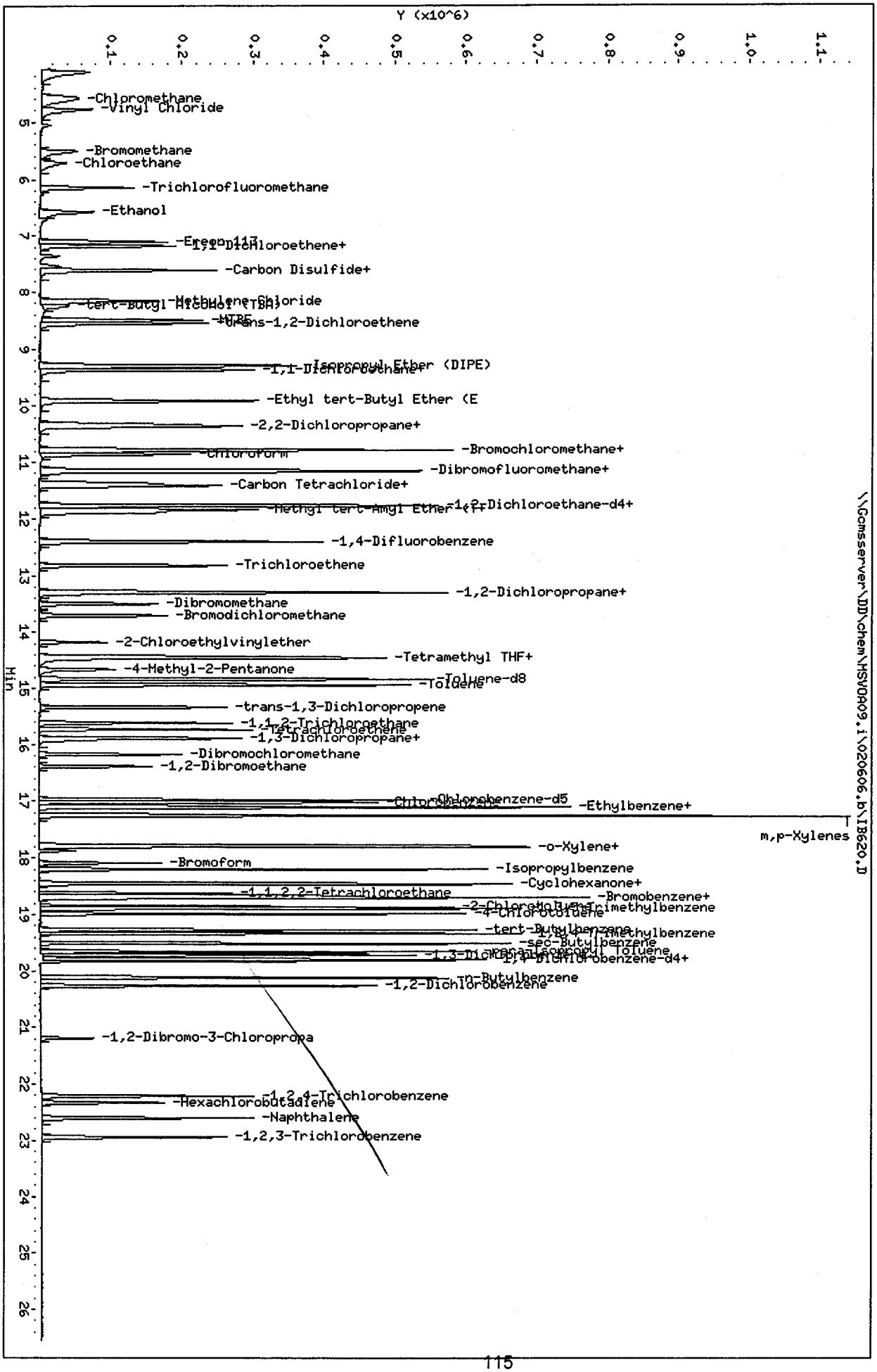
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: VOC
Column diameter: 0.25



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Report Date: 07-Feb-2006 13:07

Laboratory Name

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\IB621.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 06-FEB-2006 21:45 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2552,0.01/100,S2349,0.01/100,
Misc Info : S2028,0.005/100,50PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\826GOX9W.m
Meth Date : 07-Feb-2006 13:07 msvoa10 Quant Type: ISTD
Cal Date : 06-FEB-2006 21:45 Cal File: IB621.D
Als bottle: 21 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA10

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.116	4.116	(0.369)	544467	50.0000	54.5611
2 Chloromethane	50	4.589	4.589	(0.411)	556321	50.0000	46.0156
3 Vinyl Chloride	62	4.777	4.777	(0.428)	450655	50.0000	51.8025
4 Bromomethane	94	5.506	5.506	(0.494)	239454	50.0000	59.5778
5 Chloroethane	64	5.714	5.714	(0.512)	230580	50.0000	51.7502
6 Trichlorofluoromethane	101	6.147	6.147	(0.551)	456773	50.0000	53.7559
7 Ethanol	45	6.572	6.572	(0.589)	504066	5000.00	5259.6425(AM)
8 Freon 113	101	7.104	7.104	(0.637)	319712	50.0000	50.7385
9 1,1-Dichloroethene	96	7.183	7.183	(0.644)	271184	50.0000	52.3532
10 Acetone	43	7.360	7.360	(0.660)	106772	50.0000	46.3280
11 Isopropanol	45	7.528	7.528	(0.675)	231572	500.000	525.3036(AM)
12 Carbon Disulfide	76	7.617	7.617	(0.683)	1195522	50.0000	51.9994
13 Methylene Chloride	84	8.149	8.149	(0.730)	340191	50.0000	48.9612
14 tert-Butyl Alcohol (TBA)	59	8.248	8.248	(0.739)	268306	500.000	515.1275(A)
15 MTBE	73	8.495	8.495	(0.761)	847072	50.0000	52.4147
16 trans-1,2-Dichloroethene	96	8.554	8.554	(0.767)	311992	50.0000	50.3905
17 Isopropyl Ether (DIPE)	45	9.293	9.293	(0.833)	1220995	50.0000	51.9651(A)
18 1,1-Dichloroethane	63	9.363	9.363	(0.839)	543087	50.0000	51.0192
19 Vinyl Acetate	43	9.372	9.372	(0.840)	818531	50.0000	52.2876
20 Ethyl tert-Butyl Ether (ETBE)	59	9.905	9.905	(0.888)	1014314	50.0000	52.2300(A)
21 2,2-Dichloropropane	77	10.319	10.319	(0.925)	370031	50.0000	51.8445
22 cis-1,2-Dichloroethene	96	10.359	10.359	(0.928)	338906	50.0000	50.3353

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Report Date: 07-Feb-2006 13:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 2-Butanone	43	10.368	10.368	(0.929)	170793	50.0000	50.5159
	24 Bromochloromethane	128	10.773	10.773	(0.966)	172166	50.0000	50.5309
	25 Tetrahydrofuran	42	10.783	10.783	(0.966)	944222	500.000	491.9164(A)
	26 Chloroform	83	10.852	10.852	(0.973)	505977	50.0000	51.2586
$	27 Dibromofluoromethane	113	11.138	11.138	(0.998)	153803	50.0000	50.2604
	28 1,1,1-Trichloroethane	97	11.148	11.148	(0.999)	378930	50.0000	54.2969
*	29 Pentafluorobenzene	168	11.157	11.157	(1.000)	266257	50.0000	
	30 Carbon Tetrachloride	117	11.374	11.374	(0.917)	322371	50.0000	56.1044
	31 1,1-Dichloropropene	75	11.414	11.414	(0.920)	397960	50.0000	54.4661
$	32 1,2-Dichloroethane-d4	65	11.759	11.759	(0.948)	141649	50.0000	49.5749
	33 Benzene	78	11.769	11.769	(0.949)	1153464	50.0000	49.6618
	34 Methyl tert-Amyl Ether (TAME)	73	11.838	11.838	(0.955)	875910	50.0000	51.1086(A)
	35 1,2-Dichloroethane	62	11.887	11.887	(0.959)	369185	50.0000	50.8208
*	36 1,4-Difluorobenzene	114	12.400	12.400	(1.000)	451426	50.0000	
	37 Trichloroethene	95	12.824	12.824	(1.034)	290488	50.0000	52.0311
	38 1,2-Dichloropropane	63	13.288	13.288	(1.072)	330742	50.0000	50.5766
$	39 Trifluorotoluene	146	13.298	13.298	(1.072)	579367	50.0000	55.0556(A)
	40 Dibromomethane	93	13.495	13.495	(1.088)	220597	50.0000	51.1237
	41 Bromodichloromethane	83	13.702	13.702	(1.105)	383836	50.0000	52.1313
	42 2-Chloroethylvinylether	63	14.175	14.175	(1.143)	145013	50.0000	52.4836
	43 Tetramethyl THF	43	14.432	14.432	(1.164)	688676	50.0000	51.0533(A)
	44 cis-1,3-Dichloropropene	75	14.451	14.451	(1.165)	500525	50.0000	50.6032
	45 4-Methyl-2-Pentanone	43	14.649	14.649	(1.181)	336680	50.0000	50.9652
$	46 Toluene-d8	98	14.826	14.826	(1.196)	438157	50.0000	49.5549
	47 Toluene	92	14.935	14.935	(1.204)	691655	50.0000	51.1112
	48 trans-1,3-Dichloropropene	75	15.329	15.329	(1.236)	453950	50.0000	51.8312
	49 1,1,2-Trichloroethane	85	15.615	15.615	(1.259)	154148	50.0000	50.7743
	50 Tetrachloroethene	166	15.734	15.734	(0.927)	269070	50.0000	55.7580
	51 1,3-Dichloropropane	76	15.881	15.881	(0.936)	482843	50.0000	51.5373
	52 2-Hexanone	43	15.911	15.911	(0.938)	224748	50.0000	51.4670
	53 Dibromochloromethane	129	16.177	16.177	(0.953)	309191	50.0000	53.0244
	54 1,2-Dibromoethane	107	16.384	16.384	(1.321)	322116	50.0000	51.2199
*	55 Chlorobenzene-d5	117	16.966	16.966	(1.000)	352193	50.0000	
	56 Chlorobenzene	112	17.016	17.016	(1.003)	764218	50.0000	52.1496
	57 Ethylbenzene	91	17.085	17.085	(1.007)	1252076	50.0000	53.3482
	58 1,1,1,2-Tetrachloroethane	131	17.114	17.114	(1.009)	261648	50.0000	52.4725
	59 m,p-Xylenes	106	17.242	17.242	(1.016)	950703	100.000	105.8718
	60 o-Xylene	106	17.775	17.775	(1.048)	468313	50.0000	53.1586
	61 Styrene	104	17.795	17.795	(1.049)	832474	50.0000	52.5154
	62 Bromoform	173	18.091	18.091	(1.066)	216099	50.0000	52.5503
	63 Isopropylbenzene	105	18.199	18.199	(0.919)	1156223	50.0000	54.4050
	64 Cyclohexanone	55	18.436	18.436	(0.931)	266473	500.000	335.0356(A)
$	65 Bromofluorobenzene	95	18.456	18.456	(0.932)	186036	50.0000	49.4501
	66 1,1,2,2-Tetrachloroethane	83	18.623	18.623	(0.941)	381774	50.0000	50.1373
	67 Bromobenzene	156	18.663	18.663	(0.943)	319720	50.0000	51.1451
	68 Propylbenzene	91	18.692	18.692	(0.944)	1454927	50.0000	54.2833
	69 1,2,3-Trichloropropane	110	18.712	18.712	(0.945)	96443	50.0000	50.3500
	70 2-Chlorotoluene	91	18.860	18.860	(0.953)	969925	50.0000	52.2773
	71 1,3,5-Trimethylbenzene	105	18.889	18.889	(0.954)	958688	50.0000	54.2440
	72 4-Chlorotoluene	91	18.988	18.988	(0.959)	903797	50.0000	52.1769
	73 tert-Butylbenzene	119	19.264	19.264	(0.973)	769536	50.0000	55.2239
	74 1,2,4-Trimethylbenzene	105	19.333	19.333	(0.977)	966251	50.0000	52.9176
	75 sec-Butylbenzene	105	19.511	19.511	(0.986)	1266416	50.0000	57.1586
	76 para-Isopropyl Toluene	119	19.659	19.659	(0.993)	961115	50.0000	56.2500

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\IB621.D
Report Date: 07-Feb-2006 13:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	19.718	19.718	(0.996)	570381	50.0000	52.1116
* 78 1,4-Dichlorobenzene-d4	152	19.797	19.797	(1.000)	165098	50.0000	
79 1,4-Dichlorobenzene	146	19.817	19.817	(1.001)	584743	50.0000	51.5045
80 n-Butylbenzene	91	20.112	20.112	(1.016)	937591	50.0000	58.3787
81 1,2-Dichlorobenzene	146	20.260	20.260	(1.023)	539892	50.0000	51.4226
82 1,2-Dibromo-3-Chloropropane	75	21.187	21.187	(1.070)	58924	50.0000	50.4838
83 1,2,4-Trichlorobenzene	180	22.213	22.213	(1.122)	303135	50.0000	56.5580
84 Hexachlorobutadiene	225	22.331	22.331	(1.128)	94176	50.0000	51.7637
85 Naphthalene	128	22.598	22.598	(1.141)	783946	50.0000	55.3634
86 1,2,3-Trichlorobenzene	180	22.943	22.943	(1.159)	279775	50.0000	56.2082

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA09.i\020606.b\IB621.D
Date : 06-FEB-2006 21:45
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Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
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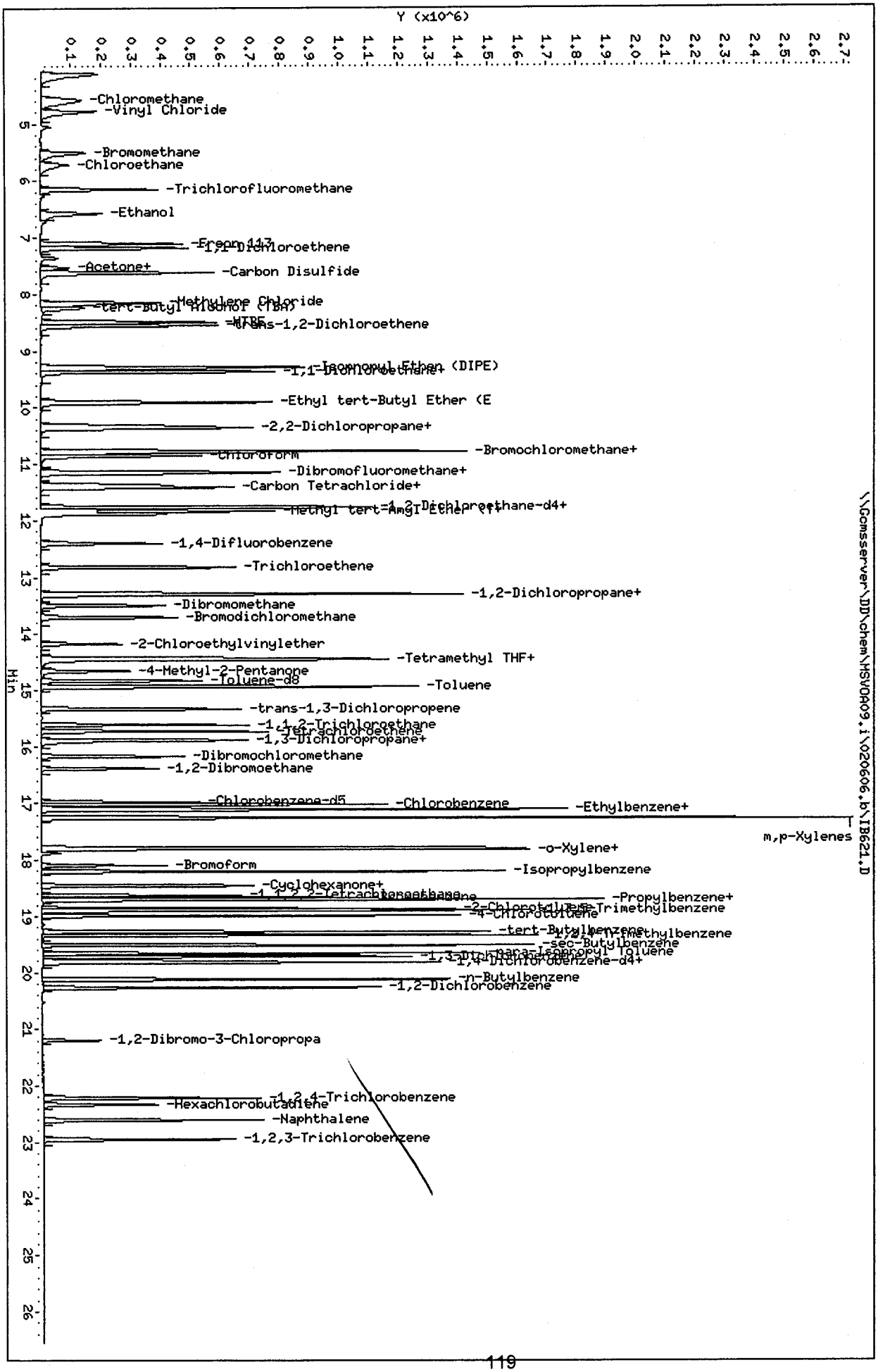

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Report Date: 07-Feb-2006 13:27

Laboratory Name

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\IB622.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 06-FEB-2006 22:20 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2552,0.015/100,S2349,0.015/100,
Misc Info : S2028,0.0075/100,75PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\826GOX9W.m
Meth Date : 07-Feb-2006 13:27 msvoa10 Quant Type: ISTD
Cal Date : 06-FEB-2006 22:20 Cal File: IB622.D
Als bottle: 22 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA10

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.127	4.127	(0.370)	817513	75.0000	75.7494
2 Chloromethane	50	4.600	4.600	(0.412)	844508	75.0000	64.5888
3 Vinyl Chloride	62	4.788	4.788	(0.429)	698738	75.0000	74.2667
4 Bromomethane	94	5.517	5.517	(0.494)	396867	75.0000	91.3021
5 Chloroethane	64	5.715	5.715	(0.512)	367477	75.0000	76.2595
6 Trichlorofluoromethane	101	6.158	6.158	(0.552)	691772	75.0000	75.2769
7 Ethanol	45	6.573	6.573	(0.589)	799204	7500.00	7710.8076(A)
8 Freon 113	101	7.105	7.105	(0.637)	527214	75.0000	76.7604
9 1,1-Dichloroethene	96	7.184	7.184	(0.644)	435164	75.0000	77.6794
10 Acetone	43	7.362	7.362	(0.660)	179205	75.0000	71.8969
11 Isopropanol	45	7.529	7.529	(0.675)	384865	750.000	807.2464(A)
12 Carbon Disulfide	76	7.618	7.618	(0.683)	1881171	75.0000	75.6558
13 Methylene Chloride	84	8.151	8.151	(0.730)	530816	75.0000	70.6393
14 tert-Butyl Alcohol (TBA)	59	8.249	8.249	(0.739)	454703	750.000	807.2083(A)
15 MTBE	73	8.496	8.496	(0.761)	1340005	75.0000	76.6678
16 trans-1,2-Dichloroethene	96	8.555	8.555	(0.767)	485908	75.0000	72.5659
17 Isopropyl Ether (DIPE)	45	9.295	9.295	(0.833)	1865728	75.0000	73.4209(A)
18 1,1-Dichloroethane	63	9.364	9.364	(0.839)	830619	75.0000	72.1506
19 Vinyl Acetate	43	9.374	9.374	(0.840)	1291696	75.0000	76.2952
20 Ethyl tert-Butyl Ether (ETBE)	59	9.906	9.906	(0.888)	1575927	75.0000	75.0338(A)
21 2,2-Dichloropropane	77	10.320	10.320	(0.925)	582049	75.0000	75.4046
22 cis-1,2-Dichloroethene	96	10.360	10.360	(0.928)	516892	75.0000	70.9850

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Report Date: 07-Feb-2006 13:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 2-Butanone	43	10.370	10.370	(0.929)	275876	75.0000	75.4476
	24 Bromochloromethane	128	10.774	10.774	(0.966)	272422	75.0000	73.9308
	25 Tetrahydrofuran	42	10.774	10.774	(0.966)	1493066	750.000	719.2330(A)
	26 Chloroform	83	10.853	10.853	(0.973)	783343	75.0000	73.3773
$	27 Dibromofluoromethane	113	11.129	11.129	(0.997)	158614	50.0000	47.9266
	28 1,1,1-Trichloroethane	97	11.149	11.149	(0.999)	601245	75.0000	79.6601
*	29 Pentafluorobenzene	168	11.159	11.159	(1.000)	287957	50.0000	
	30 Carbon Tetrachloride	117	11.376	11.376	(0.917)	519363	75.0000	85.2042
	31 1,1-Dichloropropene	75	11.415	11.415	(0.920)	632145	75.0000	81.5554
$	32 1,2-Dichloroethane-d4	65	11.760	11.760	(0.948)	147824	50.0000	48.7688
	33 Benzene	78	11.770	11.770	(0.949)	1814089	75.0000	73.6252
	34 Methyl tert-Amyl Ether (TAME)	73	11.839	11.839	(0.955)	1420021	75.0000	78.1049(A)
	35 1,2-Dichloroethane	62	11.888	11.888	(0.959)	568729	75.0000	73.7993
*	36 1,4-Difluorobenzene	114	12.401	12.401	(1.000)	478892	50.0000	
	37 Trichloroethene	95	12.825	12.825	(1.034)	459592	75.0000	77.5991
	38 1,2-Dichloropropane	63	13.289	13.289	(1.072)	503034	75.0000	72.5114
$	39 Trifluorotoluene	146	13.299	13.299	(1.072)	963736	75.0000	86.3287(A)
	40 Dibromomethane	93	13.496	13.496	(1.088)	348267	75.0000	76.0825
	41 Bromodichloromethane	83	13.703	13.703	(1.105)	593769	75.0000	76.0186
	42 2-Chloroethylvinylether	63	14.176	14.176	(1.143)	237043	75.0000	80.8710
	43 Tetramethyl THF	43	14.423	14.423	(1.163)	1077300	75.0000	75.2826(A)
	44 cis-1,3-Dichloropropene	75	14.453	14.453	(1.165)	776306	75.0000	73.9834
	45 4-Methyl-2-Pentanone	43	14.650	14.650	(1.181)	542727	75.0000	77.4439
$	46 Toluene-d8	98	14.827	14.827	(1.196)	468902	50.0000	49.9905
	47 Toluene	92	14.936	14.936	(1.204)	1095054	75.0000	76.2801
	48 trans-1,3-Dichloropropene	75	15.330	15.330	(1.236)	712057	75.0000	76.6385
	49 1,1,2-Trichloroethane	85	15.616	15.616	(1.259)	242965	75.0000	75.4395
	50 Tetrachloroethene	166	15.735	15.735	(0.927)	437310	75.0000	85.0823
	51 1,3-Dichloropropane	76	15.883	15.883	(0.936)	756990	75.0000	75.8602
	52 2-Hexanone	43	15.912	15.912	(0.938)	370051	75.0000	79.5614
	53 Dibromochloromethane	129	16.179	16.179	(0.954)	496135	75.0000	79.8835
	54 1,2-Dibromoethane	107	16.386	16.386	(1.321)	517469	75.0000	77.5640
*	55 Chlorobenzene-d5	117	16.968	16.968	(1.000)	375122	50.0000	
	56 Chlorobenzene	112	17.007	17.007	(1.002)	1193759	75.0000	76.4819
	57 Ethylbenzene	91	17.086	17.086	(1.007)	1977232	75.0000	79.0961
	58 1,1,1,2-Tetrachloroethane	131	17.106	17.106	(1.008)	420011	75.0000	79.0830
	59 m,p-Xylenes	106	17.244	17.244	(1.016)	1491123	150.000	155.9039
	60 o-Xylene	106	17.766	17.766	(1.047)	742859	75.0000	79.1685
	61 Styrene	104	17.796	17.796	(1.049)	1314951	75.0000	77.8815
	62 Bromoform	173	18.092	18.092	(1.066)	358592	75.0000	81.8712
	63 Isopropylbenzene	105	18.200	18.200	(0.920)	1862461	75.0000	83.8157
	64 Cyclohexanone	55	18.437	18.437	(0.932)	581177	750.000	607.8941(A)
$	65 Bromofluorobenzene	95	18.457	18.457	(0.933)	198169	50.0000	50.3787
	66 1,1,2,2-Tetrachloroethane	83	18.624	18.624	(0.941)	621287	75.0000	78.0346
	67 Bromobenzene	156	18.664	18.664	(0.943)	509871	75.0000	78.0073
	68 Propylbenzene	91	18.693	18.693	(0.945)	2282236	75.0000	81.4379
	69 1,2,3-Trichloropropane	110	18.713	18.713	(0.946)	157793	75.0000	78.7875
	70 2-Chlorotoluene	91	18.851	18.851	(0.953)	1516366	75.0000	78.1663
	71 1,3,5-Trimethylbenzene	105	18.891	18.891	(0.955)	1484116	75.0000	80.3125
	72 4-Chlorotoluene	91	18.989	18.989	(0.960)	1401451	75.0000	77.3795
	73 tert-Butylbenzene	119	19.265	19.265	(0.974)	1226095	75.0000	84.1517
	74 1,2,4-Trimethylbenzene	105	19.334	19.334	(0.977)	1500582	75.0000	78.5979
	75 sec-Butylbenzene	105	19.512	19.512	(0.986)	1951369	75.0000	84.2335
	76 para-Isopropyl Toluene	119	19.650	19.650	(0.993)	1487384	75.0000	83.2552

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Report Date: 07-Feb-2006 13:27

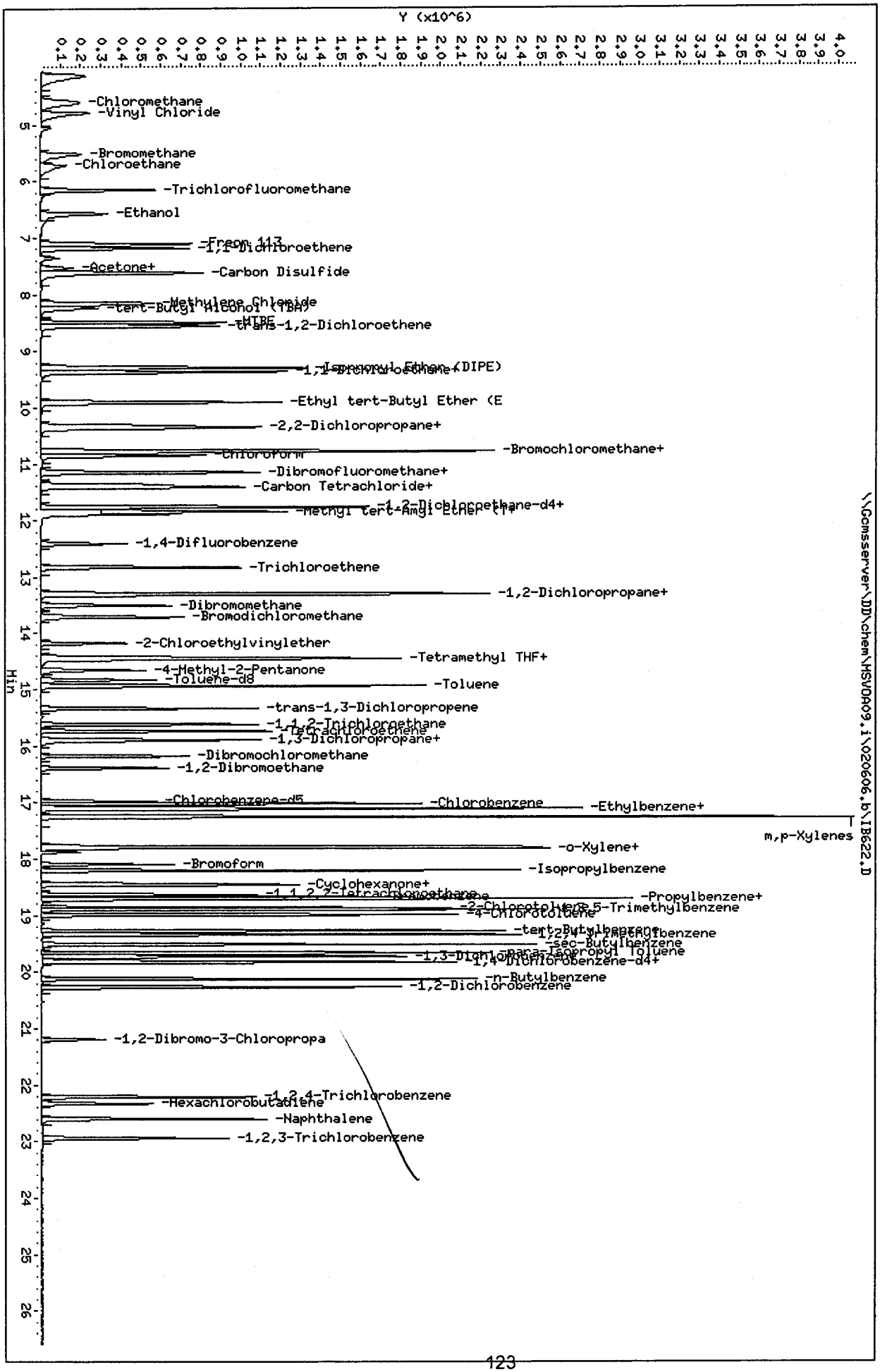
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	19.719	19.719	(0.997)	901454	75.0000	78.7686
* 78 1,4-Dichlorobenzene-d4	152	19.788	19.788	(1.000)	172624	50.0000	
79 1,4-Dichlorobenzene	146	19.818	19.818	(1.001)	917904	75.0000	77.3246
80 n-Butylbenzene	91	20.114	20.114	(1.016)	1390181	75.0000	82.7853
81 1,2-Dichlorobenzene	146	20.261	20.261	(1.024)	843852	75.0000	76.8696
82 1,2-Dibromo-3-Chloropropane	75	21.189	21.189	(1.071)	91562	75.0000	75.0266
83 1,2,4-Trichlorobenzene	180	22.204	22.204	(1.122)	448371	75.0000	80.0086
84 Hexachlorobutadiene	225	22.333	22.333	(1.129)	138201	75.0000	72.8737
85 Naphthalene	128	22.599	22.599	(1.142)	1218873	75.0000	82.3258
86 1,2,3-Trichlorobenzene	180	22.944	22.944	(1.159)	412892	75.0000	79.3355

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Gcmsserver\DD\chem\MSVOA09.i\020606.b\IB622.D
Date : 06-FEB-2006 22:20
Client ID: DYNA P&T
Sample Info: ICAL,S2552,0.015/100,S2349,0.015/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: VOC
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\IB623.D
Report Date: 07-Feb-2006 13:27

Laboratory Name

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\IB623.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 06-FEB-2006 22:56 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2552,0.02/100,S2349,0.02/100,
Misc Info : S2028,0.01/100,100PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\020606.b\826GOX9W.m
Meth Date : 07-Feb-2006 13:27 msvoa10 Quant Type: ISTD
Cal Date : 06-FEB-2006 22:56 Cal File: IB623.D
Als bottle: 23 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA10

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.130	4.130	(0.370)	1086161	100.000	99.5222
2 Chloromethane	50	4.594	4.594	(0.412)	1052500	100.000	79.6006
3 Vinyl Chloride	62	4.791	4.791	(0.429)	902013	100.000	94.8055
4 Bromomethane	94	5.511	5.511	(0.494)	542137	100.000	123.3348
5 Chloroethane	64	5.718	5.718	(0.512)	462364	100.000	94.8831
6 Trichlorofluoromethane	101	6.152	6.152	(0.551)	910271	100.000	97.9513
7 Ethanol	45	6.576	6.576	(0.589)	961424	10000.0	9172.7154(A)
8 Freon 113	101	7.109	7.109	(0.637)	685822	100.000	98.4127
9 1,1-Dichloroethene	96	7.188	7.188	(0.644)	568991	100.000	100.4383
10 Acetone	43	7.365	7.365	(0.660)	234340	100.000	92.9709
11 Isopropanol	45	7.533	7.533	(0.675)	448754	1000.00	930.7795(A)
12 Carbon Disulfide	76	7.622	7.622	(0.683)	2468055	100.000	98.1544
13 Methylene Chloride	84	8.154	8.154	(0.731)	693698	100.000	91.2880
14 tert-Butyl Alcohol (TBA)	59	8.243	8.243	(0.738)	546819	1000.00	959.9357(A)
15 MTBE	73	8.499	8.499	(0.761)	1706759	100.000	96.5649
16 trans-1,2-Dichloroethene	96	8.559	8.559	(0.767)	635817	100.000	93.8970
17 Isopropyl Ether (DIPE)	45	9.288	9.288	(0.832)	2433419	100.000	94.6954(A)
18 1,1-Dichloroethane	63	9.367	9.367	(0.839)	1080713	100.000	92.8302
19 Vinyl Acetate	43	9.367	9.367	(0.839)	1664732	100.000	97.2349
20 Ethyl tert-Butyl Ether (ETBE)	59	9.910	9.910	(0.888)	2033692	100.000	95.7518(A)
21 2,2-Dichloropropane	77	10.324	10.324	(0.925)	756150	100.000	96.8694
22 cis-1,2-Dichloroethene	96	10.354	10.354	(0.928)	694324	100.000	94.2908

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 2-Butanone	43	10.363	10.363	(0.928)	341956	100.000	92.4788
	24 Bromochloromethane	128	10.778	10.778	(0.966)	354702	100.000	95.1891
	25 Tetrahydrofuran	42	10.778	10.778	(0.966)	1767739	1000.00	842.0725(A)
	26 Chloroform	83	10.857	10.857	(0.973)	1022799	100.000	94.7417
$	27 Dibromofluoromethane	113	11.133	11.133	(0.997)	158345	50.0000	47.3129
	28 1,1,1-Trichloroethane	97	11.152	11.152	(0.999)	786054	100.000	102.9870
*	29 Pentafluorobenzene	168	11.162	11.162	(1.000)	291197	50.0000	
	30 Carbon Tetrachloride	117	11.369	11.369	(0.917)	689849	100.000	113.5627
	31 1,1-Dichloropropene	75	11.419	11.419	(0.920)	832020	100.000	107.7114
$	32 1,2-Dichloroethane-d4	65	11.764	11.764	(0.948)	141109	50.0000	46.7136
	33 Benzene	78	11.764	11.764	(0.948)	2368175	100.000	96.4435
	34 Methyl tert-Amyl Ether (TAME)	73	11.843	11.843	(0.955)	1816543	100.000	100.2585(A)
	35 1,2-Dichloroethane	62	11.892	11.892	(0.959)	730254	100.000	95.0851
*	36 1,4-Difluorobenzene	114	12.405	12.405	(1.000)	477250	50.0000	
	37 Trichloroethene	95	12.819	12.819	(1.033)	611126	100.000	103.5396
	38 1,2-Dichloropropane	63	13.283	13.283	(1.071)	646904	100.000	93.5709
$	39 Trifluorotoluene	146	13.292	13.292	(1.072)	1284699	100.000	115.4756(A)
	40 Dibromomethane	93	13.490	13.490	(1.087)	453974	100.000	99.5165
	41 Bromodichloromethane	83	13.707	13.707	(1.105)	776833	100.000	99.7980
	42 2-Chloroethylvinylether	63	14.170	14.170	(1.142)	299924	100.000	102.6759
	43 Tetramethyl THF	43	14.427	14.427	(1.163)	1357136	100.000	95.1641(A)
	44 cis-1,3-Dichloropropene	75	14.456	14.456	(1.165)	1013649	100.000	96.9350
	45 4-Methyl-2-Pentanone	43	14.653	14.653	(1.181)	684939	100.000	98.0729
$	46 Toluene-d8	98	14.831	14.831	(1.196)	473759	50.0000	50.6821
	47 Toluene	92	14.930	14.930	(1.204)	1445151	100.000	101.0138
	48 trans-1,3-Dichloropropene	75	15.334	15.334	(1.236)	929023	100.000	100.3346
	49 1,1,2-Trichloroethane	85	15.620	15.620	(1.259)	319536	100.000	99.5558
	50 Tetrachloroethene	166	15.738	15.738	(0.927)	587246	100.000	113.6167
	51 1,3-Dichloropropane	76	15.886	15.886	(0.936)	975176	100.000	97.1805
	52 2-Hexanone	43	15.906	15.906	(0.937)	462541	100.000	98.8925
	53 Dibromochloromethane	129	16.172	16.172	(0.953)	649248	100.000	103.9538
	54 1,2-Dibromoethane	107	16.389	16.389	(1.321)	674951	100.000	101.5172
*	55 Chlorobenzene-d5	117	16.971	16.971	(1.000)	377225	50.0000	
	56 Chlorobenzene	112	17.011	17.011	(1.002)	1579217	100.000	100.6135
	57 Ethylbenzene	91	17.089	17.089	(1.007)	2514993	100.000	100.0476
	58 1,1,1,2-Tetrachloroethane	131	17.109	17.109	(1.008)	550689	100.000	103.1100
	59 m,p-Xylenes	106	17.247	17.247	(1.016)	1915675	200.000	199.1762
	60 o-Xylene	106	17.770	17.770	(1.047)	962036	100.000	101.9552
	61 Styrene	104	17.800	17.800	(1.049)	1728066	100.000	101.7788
	62 Bromoform	173	18.086	18.086	(1.066)	476975	100.000	108.2925
	63 Isopropylbenzene	105	18.194	18.194	(0.919)	2436802	100.000	109.4812
	64 Cyclohexanone	55	18.441	18.441	(0.932)	868120	1000.00	903.8494(A)
$	65 Bromofluorobenzene	95	18.460	18.460	(0.933)	196888	50.0000	49.9702
	66 1,1,2,2-Tetrachloroethane	83	18.618	18.618	(0.941)	788040	100.000	98.8154
	67 Bromobenzene	156	18.658	18.658	(0.943)	677231	100.000	103.4410
	68 Propylbenzene	91	18.697	18.697	(0.945)	2957725	100.000	105.3671
	69 1,2,3-Trichloropropane	110	18.707	18.707	(0.945)	198388	100.000	98.8931
	70 2-Chlorotoluene	91	18.855	18.855	(0.953)	1945985	100.000	100.1466
	71 1,3,5-Trimethylbenzene	105	18.894	18.894	(0.955)	1947196	100.000	105.1977
	72 4-Chlorotoluene	91	18.983	18.983	(0.959)	1829367	100.000	100.8393
	73 tert-Butylbenzene	119	19.269	19.269	(0.974)	1619722	100.000	110.9840
	74 1,2,4-Trimethylbenzene	105	19.328	19.328	(0.977)	1959578	100.000	102.4695
	75 sec-Butylbenzene	105	19.506	19.506	(0.986)	2599551	100.000	112.0276
	76 para-Isopropyl Toluene	119	19.654	19.654	(0.993)	1975299	100.000	110.3830

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Report Date: 07-Feb-2006 13:27

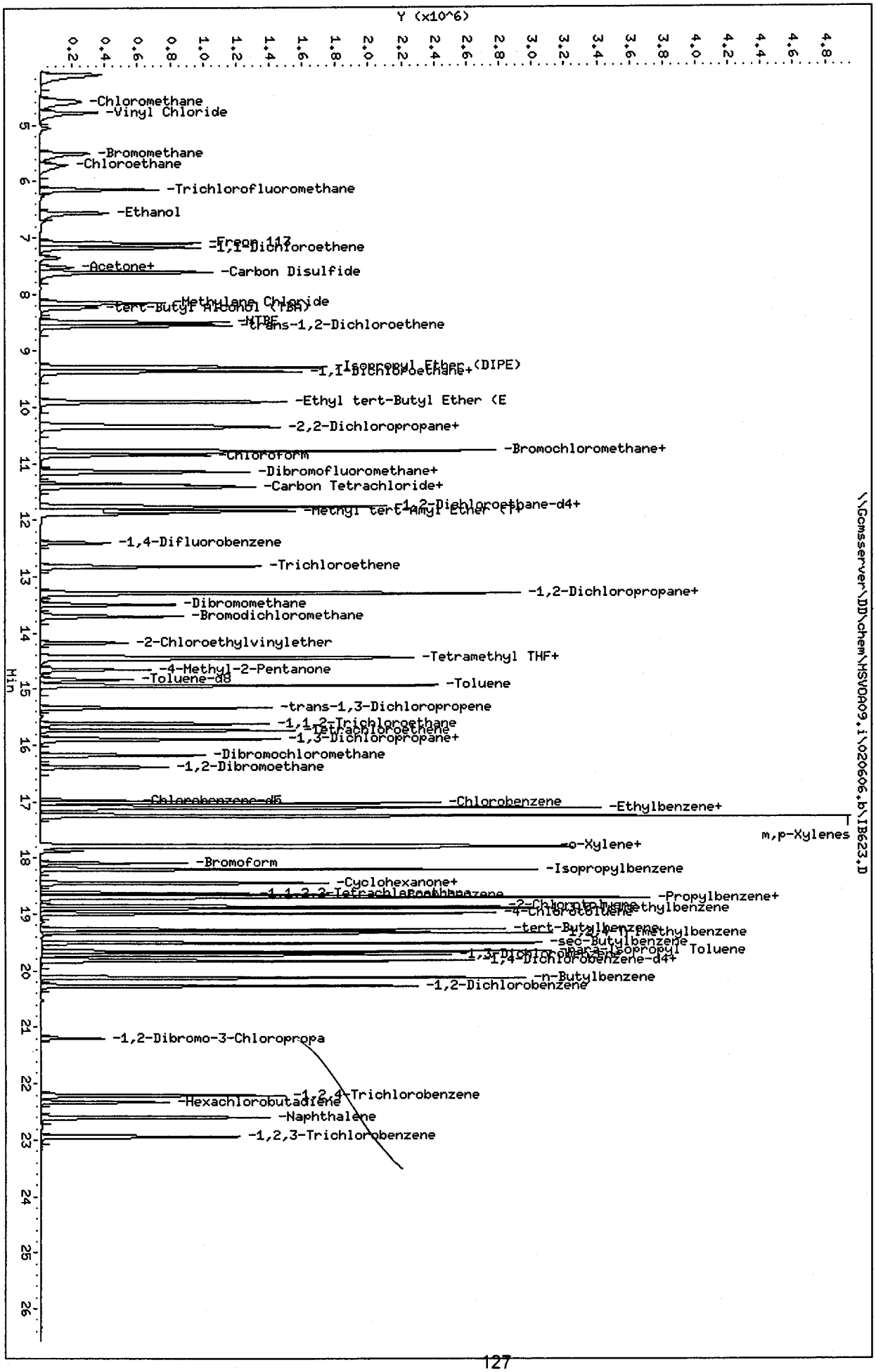
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	19.713	19.713	(0.996)	1182363	100.000	103.1435
* 78 1,4-Dichlorobenzene-d4	152	19.792	19.792	(1.000)	172910	50.0000	
79 1,4-Dichlorobenzene	146	19.821	19.821	(1.001)	1220124	100.000	102.6138
80 n-Butylbenzene	91	20.117	20.117	(1.016)	1854036	100.000	110.2253
81 1,2-Dichlorobenzene	146	20.265	20.265	(1.024)	1121139	100.000	101.9598
82 1,2-Dibromo-3-Chloropropane	75	21.192	21.192	(1.071)	115463	100.000	94.4548
83 1,2,4-Trichlorobenzene	180	22.208	22.208	(1.122)	614632	100.000	109.4952
84 Hexachlorobutadiene	225	22.326	22.326	(1.128)	192925	100.000	101.3214
85 Naphthalene	128	22.602	22.602	(1.142)	1598582	100.000	107.7937
86 1,2,3-Trichlorobenzene	180	22.948	22.948	(1.159)	569500	100.000	109.2461

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Gcmsserver\DD\chem\MSVOA09.i\020606.b\IB623.D
Date : 06-FEB-2006 22:56
Client ID: DYNA P&T
Sample Info: ICAL,S2552,0.02/100,S2349,0.02/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: VOC
Column diameter: 0.25



CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA09
Seqnum : 486056789004
Cal : 486053925001

Run Name: QC327315
File : ib804
Caldate : 06-FEB-2006

IDF : 1.0
Time : 08-FEB-2006 12:33
Caltype : WATER

Standards: S2691 (10000X), S2616 (10000X), S2436 (10000X), S2286 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	1.8739	1.2976	25.00	17.31	ug/L	**-31**	30	v- ***
Chloromethane	2.2703	1.8226	25.00	20.07	ug/L	-20	30	
Vinyl Chloride	1.6337	1.4065	25.00	21.52	ug/L	-14	20	
Bromomethane	0.7548	1.1238	25.00	37.22	ug/L	**49**	30	v+ ***
Chloroethane	0.8367	0.7670	25.00	22.92	ug/L	-8	30	
Trichlorofluoromethane	1.5957	1.3979	25.00	21.90	ug/L	-12	30	
Acetone	0.4328	0.3982	25.00	23.00	ug/L	-8	40	
Freon 113	1.0267	0.9690	25.00	21.16	ug/L	-15	30	
1,1-Dichloroethene	0.9727	0.9382	25.00	24.11	ug/L	-4	20	
Methylene Chloride	1.3048	1.2666	25.00	24.27	ug/L	-3	30	
Carbon Disulfide	4.3175	3.0516	25.00	17.67	ug/L	**-29**	30	!v-
MTBE	3.0348	3.0067	25.00	24.77	ug/L	-1	30	
trans-1,2-Dichloroethene	1.1627	1.1160	25.00	24.00	ug/L	-4	30	
Vinyl Acetate	2.9397	2.0338	25.00	17.30	ug/L	**-31**	40	!v-
1,1-Dichloroethane	1.9990	1.9868	25.00	24.85	ug/L	-1	30	
2-Butanone	0.6349	0.6493	25.00	25.57	ug/L	2	40	
2,2-Dichloropropane	1.3403	1.3788	25.00	25.72	ug/L	3	30	
cis-1,2-Dichloroethene	1.2644	1.2316	25.00	24.35	ug/L	-3	30	
Chloroform	1.8537	1.8340	25.00	24.73	ug/L	-1	20	
Bromochloromethane	0.6398	0.6238	25.00	24.38	ug/L	-2	30	
1,1,1-Trichloroethane	1.3105	1.3298	25.00	25.37	ug/L	1	30	
1,1-Dichloropropene	0.8093	0.8428	25.00	26.04	ug/L	4	30	
Carbon Tetrachloride	0.6364	0.6639	25.00	26.08	ug/L	4	30	
1,2-Dichloroethane	0.8046	0.8137	25.00	25.28	ug/L	1	30	
Benzene	2.5726	2.5234	25.00	24.52	ug/L	-2	30	
Trichloroethene	0.6184	0.6356	25.00	25.70	ug/L	3	30	
1,2-Dichloropropane	0.7243	0.7083	25.00	24.45	ug/L	-2	20	
Bromodichloromethane	0.8155	0.8840	25.00	27.10	ug/L	8	30	
Dibromomethane	0.4779	0.4837	25.00	25.30	ug/L	1	30	
2-Chloroethylvinylether	0.3060	0.2824	25.00	23.07	ug/L	-8	40	
4-Methyl-2-Pentanone	0.7317	0.7777	25.00	26.57	ug/L	6	40	
Tetramethyl THF	1.4941	1.4072	25.00	23.55	ug/L	-6	30	
cis-1,3-Dichloropropene	1.0955	1.1264	25.00	25.70	ug/L	3	30	
Toluene	1.4988	1.5066	25.00	25.13	ug/L	1	20	
trans-1,3-Dichloropropene	0.9701	0.9503	25.00	24.49	ug/L	-2	30	
1,1,2-Trichloroethane	0.3363	0.3517	25.00	26.15	ug/L	5	30	
2-Hexanone	0.6199	0.6424	25.00	25.91	ug/L	4	40	
1,3-Dichloropropane	1.3301	1.3906	25.00	26.14	ug/L	5	30	
Tetrachloroethene	0.6851	0.7230	25.00	26.38	ug/L	6	30	
Dibromochloromethane	0.8278	0.9067	25.00	27.38	ug/L	10	30	
1,2-Dibromoethane	0.6966	0.7287	25.00	26.15	ug/L	5	30	
Chlorobenzene	2.0804	2.1517	25.00	25.86	ug/L	3	30	
1,1,1,2-Tetrachloroethane	0.7079	0.7548	25.00	26.65	ug/L	7	30	
Ethylbenzene	3.3320	3.5042	25.00	26.29	ug/L	5	20	
m,p-Xylenes	1.2748	1.3571	50.00	53.23	ug/L	6	30	
o-Xylene	1.2507	1.3498	25.00	26.98	ug/L	8	30	
Styrene	2.2505	2.3798	25.00	26.44	ug/L	6	30	
Bromoform	0.5838	0.6296	25.00	26.96	ug/L	8	30	

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02/09/07

2/8/06

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Isopropylbenzene	6.4362	6.5215	25.00	25.33	ug/L	1	30	
1,1,2,2-Tetrachloroethane	2.3061	2.4436	25.00	26.49	ug/L	6	30	
1,2,3-Trichloropropane	0.5801	0.6266	25.00	27.00	ug/L	8	30	
Propylbenzene	8.1171	9.0231	25.00	27.79	ug/L	11	30	
Bromobenzene	1.8932	1.9464	25.00	25.70	ug/L	3	30	
1,3,5-Trimethylbenzene	5.3525	5.8217	25.00	27.19	ug/L	9	30	
2-Chlorotoluene	5.6189	6.0466	25.00	26.90	ug/L	8	30	
4-Chlorotoluene	5.2459	5.5517	25.00	26.46	ug/L	6	30	
tert-Butylbenzene	4.2202	4.7637	25.00	28.22	ug/L	13	30	
1,2,4-Trimethylbenzene	5.5299	5.9525	25.00	26.91	ug/L	8	30	
sec-Butylbenzene	6.7100	7.6335	25.00	28.44	ug/L	14	30	
para-Isopropyl Toluene	5.1746	5.6093	25.00	27.10	ug/L	8	30	
1,3-Dichlorobenzene	3.3148	3.5054	25.00	26.44	ug/L	6	30	
1,4-Dichlorobenzene	3.4383	3.6302	25.00	26.40	ug/L	6	30	
n-Butylbenzene	4.8639	5.5249	25.00	28.40	ug/L	14	30	
1,2-Dichlorobenzene	3.1797	3.3620	25.00	26.43	ug/L	6	30	
1,2-Dibromo-3-Chloropropane	0.3535	0.3799	25.00	26.87	ug/L	7	30	
1,2,4-Trichlorobenzene	1.6232	1.8142	25.00	27.94	ug/L	12	30	
Hexachlorobutadiene	0.4606	0.6091	25.00	28.10	ug/L	12	30	
Naphthalene	4.2884	4.7443	25.00	27.66	ug/L	11	30	
1,2,3-Trichlorobenzene	1.5074	1.6513	25.00	27.39	ug/L	10	30	
tert-Butyl Alcohol (TBA)	0.0902	0.1002	125.0	126.0	ug/L	1	30	
Isopropyl Ether (DIPE)	4.4124	4.3308	25.00	24.54	ug/L	-2	30	
Ethyl tert-Butyl Ether (ETBE)	3.6469	3.5175	25.00	24.11	ug/L	-4	30	
Methyl tert-Amyl Ether (TAME)	1.8982	1.7656	25.00	23.25	ug/L	-7	30	
Cyclohexanone	0.2409	0.0645	250.0	63.16	ug/L	-75	30	v- ***
Ethanol	0.0180	0.0192	2500	2661	ug/L	6	30	
Isopropanol	0.0828	0.0839	250.0	253.3	ug/L	1	30	
Tetrahydrofuran	0.3605	0.3707	250.0	257.1	ug/L	3	30	

ISTD (ICAL ib621)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	266257	293663	10.29	11.16	11.17	0.01
1,4-Difluorobenzene	451426	486259	7.72	12.40	12.41	0.01
Chlorobenzene-d5	352193	380475	8.03	16.97	16.98	0.01
1,4-Dichlorobenzene-d4	165098	176463	6.88	19.80	19.80	0.00

!=warning +=high bias -=low bias v=ICV

Loo 2/8/06

486056789004

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA09 Run Name: 35PPB IDF : 1.0
Seqnum : 486105770002 File : ice02 Time : 14-MAR-2006 11:08
Cal : 486053925001 Caldate : 06-FEB-2006 Caltype : WATER
Standards: S2668 (14290X), S2661 (14290X), S2410 (28570X), S2743 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	1.8739	1.4851	35.00	27.74	ug/L	**-21**	30	0.0500	!c-
Chloromethane	2.2703	1.9071	35.00	29.40	ug/L	-16	30	0.1000	
Vinyl Chloride	1.6337	1.5631	35.00	33.49	ug/L	-4	20	0.0500	
Bromomethane	0.7548	0.5419	35.00	25.13	ug/L	**-28**	30	0.0500	!c-
Chloroethane	0.8367	0.8603	35.00	35.98	ug/L	3	30	0.0500	
Trichlorofluoromethane	1.5957	1.6699	35.00	36.63	ug/L	5	30	0.0500	
Acetone	0.4328	0.3727	35.00	30.14	ug/L	-14	40	0.0500	
Freon 113	1.0267	0.8958	35.00	27.05	ug/L	**-23**	30	0.0500	!c-
1,1-Dichloroethene	0.9727	0.8317	35.00	29.93	ug/L	-14	20	0.0500	
Methylene Chloride	1.3048	1.1623	35.00	31.18	ug/L	-11	30	0.0500	
Carbon Disulfide	4.3175	3.4010	35.00	27.57	ug/L	**-21**	30	0.0500	!c-
MTBE	3.0348	3.0262	35.00	34.90	ug/L	0	30	0.0500	
trans-1,2-Dichloroethene	1.1627	0.9859	35.00	29.68	ug/L	-15	30	0.0500	
Vinyl Acetate	2.9397	2.5800	35.00	30.72	ug/L	-12	40	0.0500	
1,1-Dichloroethane	1.9990	1.7730	35.00	31.04	ug/L	-11	30	0.1000	
2-Butanone	0.6349	0.5311	35.00	29.28	ug/L	-16	40	0.0500	
2,2-Dichloropropane	1.3403	1.2529	35.00	32.72	ug/L	-7	30	0.0500	
cis-1,2-Dichloroethene	1.2644	1.0936	35.00	30.27	ug/L	-14	30	0.0500	
Chloroform	1.8537	1.7059	35.00	32.21	ug/L	-8	20	0.0500	
Bromochloromethane	0.6398	0.5820	35.00	31.84	ug/L	-9	30	0.0500	
1,1,1-Trichloroethane	1.3105	1.1656	35.00	31.13	ug/L	-11	30	0.0500	
1,1-Dichloropropene	0.8093	0.7019	35.00	30.36	ug/L	-13	30	0.0500	
Carbon Tetrachloride	0.6364	0.5854	35.00	32.20	ug/L	-8	30	0.0500	
1,2-Dichloroethane	0.8046	0.7918	35.00	34.44	ug/L	-2	30	0.0500	
Benzene	2.5726	2.2753	35.00	30.96	ug/L	-12	30	0.0500	
Trichloroethene	0.6184	0.5397	35.00	30.55	ug/L	-13	30	0.0500	
1,2-Dichloropropane	0.7243	0.6246	35.00	30.18	ug/L	-14	20	0.0500	
Bromodichloromethane	0.8155	0.7719	35.00	33.13	ug/L	-5	30	0.0500	
Dibromomethane	0.4779	0.4446	35.00	32.56	ug/L	-7	30	0.0500	
2-Chloroethylvinylether	0.3060	0.2732	35.00	31.25	ug/L	-11	40	0.0500	
4-Methyl-2-Pentanone	0.7317	0.6004	35.00	28.72	ug/L	-18	40	0.0500	
Tetramethyl THF	1.4941	1.2112	35.00	28.37	ug/L	-19	30	0.0500	
cis-1,3-Dichloropropene	1.0955	1.0060	35.00	32.14	ug/L	-8	30	0.0500	
Toluene	1.4988	1.3182	35.00	30.78	ug/L	-12	20	0.0500	
trans-1,3-Dichloropropene	0.9701	0.8867	35.00	31.99	ug/L	-9	30	0.0500	
1,1,2-Trichloroethane	0.3363	0.3090	35.00	32.16	ug/L	-8	30	0.0500	
2-Hexanone	0.6199	0.5223	35.00	29.49	ug/L	-16	40	0.0500	
1,3-Dichloropropane	1.3301	1.2006	35.00	31.59	ug/L	-10	30	0.0500	
Tetrachloroethene	0.6851	0.5657	35.00	28.90	ug/L	-17	30	0.0500	
Dibromochloromethane	0.8278	0.7894	35.00	33.37	ug/L	-5	30	0.0500	
1,2-Dibromoethane	0.6966	0.6319	35.00	31.75	ug/L	-9	30	0.0500	
Chlorobenzene	2.0804	1.8393	35.00	30.94	ug/L	-12	30	0.3000	
1,1,1,2-Tetrachloroethane	0.7079	0.6488	35.00	32.08	ug/L	-8	30	0.0500	
Ethylbenzene	3.3320	2.7928	35.00	29.34	ug/L	-16	20	0.0500	
m,p-Xylenes	1.2748	1.1017	70.00	60.50	ug/L	-14	30	0.0500	
o-Xylene	1.2507	1.0925	35.00	30.57	ug/L	-13	30	0.0500	
Styrene	2.2505	2.0004	35.00	31.11	ug/L	-11	30	0.0500	
Bromoform	0.5838	0.5682	35.00	34.06	ug/L	-3	30	0.1000	
Isopropylbenzene	6.4362	5.1097	35.00	27.79	ug/L	**-21**	30	0.0500	!c-

486105770002

5.3 3/15/06

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	2.3061	2.0381	35.00	30.93	ug/L	-12	30	0.3000	
1,2,3-Trichloropropane	0.5801	0.5229	35.00	31.55	ug/L	-10	30	0.0500	
Propylbenzene	8.1171	6.3852	35.00	27.53	ug/L	**-21**	30	0.0500	!c-
Bromobenzene	1.8932	1.6221	35.00	29.99	ug/L	-14	30	0.0500	
1,3,5-Trimethylbenzene	5.3525	4.2600	35.00	27.86	ug/L	-20	30	0.0500	
2-Chlorotoluene	5.6189	4.6097	35.00	28.71	ug/L	-18	30	0.0500	
4-Chlorotoluene	5.2459	4.4551	35.00	29.72	ug/L	-15	30	0.0500	
tert-Butylbenzene	4.2202	3.3662	35.00	27.92	ug/L	-20	30	0.0500	
1,2,4-Trimethylbenzene	5.5299	4.5149	35.00	28.58	ug/L	-18	30	0.0500	
sec-Butylbenzene	6.7100	5.1884	35.00	27.06	ug/L	**-23**	30	0.0500	!c-
para-Isopropyl Toluene	5.1746	4.1305	35.00	27.94	ug/L	-20	30	0.0500	
1,3-Dichlorobenzene	3.3148	2.8413	35.00	30.00	ug/L	-14	30	0.0500	
1,4-Dichlorobenzene	3.4383	2.9051	35.00	29.57	ug/L	-16	30	0.0500	
n-Butylbenzene	4.8639	3.6736	35.00	26.43	ug/L	**-24**	30	0.0500	!c-
1,2-Dichlorobenzene	3.1797	2.7598	35.00	30.38	ug/L	-13	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.3535	0.2879	35.00	28.51	ug/L	-19	30	0.0500	
1,2,4-Trichlorobenzene	1.6232	1.2555	35.00	27.07	ug/L	**-23**	30	0.0500	!c-
Hexachlorobutadiene	0.4606	0.3772	35.00	24.44	ug/L	**-30**	30	0.0500	!c-
Naphthalene	4.2884	3.1118	35.00	25.40	ug/L	**-27**	30	0.0500	!c-
1,2,3-Trichlorobenzene	1.5074	1.1476	35.00	26.65	ug/L	**-24**	30	0.0500	!c-
tert-Butyl Alcohol (TBA)	0.0902	0.0785	350.0	277.9	ug/L	**-21**	30	0.0050	!c-
Isopropyl Ether (DIPE)	4.4124	3.9536	35.00	31.36	ug/L	-10	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	3.6469	3.0813	35.00	29.57	ug/L	-16	30	0.0500	
Methyl tert-Amyl Ether (TAME)	1.8982	1.7270	35.00	31.84	ug/L	-9	30	0.0500	
Cyclohexanone	0.2409	0.1192	350.0	154.7	ug/L	**-56**	30	0.0050	c- ***
Ethanol	0.0180	0.0151	3500	2928	ug/L	-16	30	5.0E-4	
Isopropanol	0.0828	0.0644	350.0	272.4	ug/L	**-22**	30	0.0050	!c-
Tetrahydrofuran	0.3605	0.3018	350.0	293.0	ug/L	-16	30	0.0050	
Dibromofluoromethane	0.5747	0.5536	50.00	48.17	ug/L	-4	30	0.0500	
1,2-Dichloroethane-d4	0.3165	0.3429	50.00	54.17	ug/L	8	30	0.0500	
Trifluorotoluene	1.1656	0.7578	35.00	22.76	ug/L	**-35**	30	0.0500	c-
Toluene-d8	0.9793	0.9589	50.00	48.96	ug/L	-2	30	0.0500	
Bromofluorobenzene	1.1394	1.0699	50.00	46.95	ug/L	-6	30	0.0500	

ISTD (ICAL ib621)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	266257	332824	25.00	11.16	11.16	0.00
1,4-Difluorobenzene	451426	536550	18.86	12.40	12.42	0.02
Chlorobenzene-d5	352193	423810	20.33	16.97	16.98	0.01
1,4-Dichlorobenzene-d4	165098	205969	24.76	19.80	19.80	0.00

3/15/00

!=warning -=low bias c=CCV

SOD 3/15/00

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 14-MAR-2006
Sequence: 486105770 (ice)
Instrument ID: MSVOA09

ICAL Filename: ib621
Date Analyzed: 06-FEB-2006
Time Analyzed: 21:45

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	266257	11.16	451426	12.40	352193	16.97	165098	19.80
LOWER LIMIT	133129	10.66	225713	11.90	176097	16.47	82549	19.30
UPPER LIMIT	532514	11.66	902852	12.90	704386	17.47	330196	20.30

TYPE	SAMPLE	#								
CCV	35PPB	002	332824	11.16	536550	12.42	423810	16.98	205969	19.80
BS	QC331411	003	340207	11.17	548790	12.41	419385	16.98	205156	19.80
BSD	QC331412	004	334497	11.17	535944	12.41	421895	16.98	204225	19.80
BLANK	QC331410	006	328106	11.18	544841	12.42	419599	16.99	185426	19.81
SAMPLE	185463-001	007	328559	11.17	542853	12.42	414706	16.98	192418	19.80
SAMPLE	185479-046	008	320790	11.18	526007	12.42	410816	16.98	187206	19.80
SAMPLE	185479-006	009	329140	11.17	535412	12.42	415015	16.98	187784	19.80
SAMPLE	185479-009	010	321451	11.18	523657	12.42	405339	16.99	182645	19.81
SAMPLE	185517-003	011	312209	11.17	511849	12.42	395889	16.98	181107	19.80
SAMPLE	185517-002	012	318790	11.17	520716	12.42	401124	16.98	180751	19.80
SAMPLE	185517-001	013	317296	11.17	517135	12.42	398693	16.98	181472	19.80
SAMPLE	185518-001	014	316109	11.17	516627	12.42	394885	16.98	179451	19.80
SAMPLE	185518-002	015	313852	11.17	515895	12.42	395083	16.98	176122	19.80
SAMPLE	185515-001	016	312255	11.18	513676	12.42	394623	16.98	181866	19.80

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 486053925 Instrument: MSVOA09 HP GCMS VOA 09 Begun: 06-FEB-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	ib601	X	IB			06-FEB-2006 10:45	1.0					1	
002	ib602	~~TUN~~	~~BFB~~ NOT USED			06-FEB-2006 11:34	1.0	1				2 t	
003	ib603	~~TUN~~	BFB			06-FEB-2006 11:52	1.0	1				2 t	
004	ib604	~~TUN~~	BFB			06-FEB-2006 12:07	1.0	1				2 t	
005	ib605	TUN	BFB			06-FEB-2006 12:22	1.0	1				2 t	
006	ib606	TUN	BFB			06-FEB-2006 12:38	1.0					2	
007	ib607	TUN	BFB			06-FEB-2006 12:58	1.0					2	
008	ib608	~~TUN~~	~~BFB~~			06-FEB-2006 13:13	1.0					2	
009	ib609	X	LOW PT			06-FEB-2006 13:41	1.0					1	
010	ib610	X	HIGH GAS			06-FEB-2006 15:06	1.0					1	
011	ib611	X	IB			06-FEB-2006 15:42	1.0					1	
012	ib612	X	IB			06-FEB-2006 16:18	1.0					1	
013	ib613	TUN	BFB			06-FEB-2006 17:02	1.0					2	
014	ib614	X	IB			06-FEB-2006 17:30	1.0					1	
015	ib615	X	CALIB IB			06-FEB-2006 18:05	1.0					1	183
016	ib616	ICAL	0.5/1PPB			06-FEB-2006 18:43	1.0					3 4 5 1	
017	ib617	ICAL	2PPB			06-FEB-2006 19:19	1.0					3 4 5 1	
018	ib618	ICAL	5PPB			06-FEB-2006 19:58	1.0					3 4 5 1	
019	ib619	ICAL	10PPB			06-FEB-2006 20:33	1.0					3 4 5 1	
020	ib620	ICAL	20PPB			06-FEB-2006 21:09	1.0					3 4 5 1	
021	ib621	ICAL	50PPB			06-FEB-2006 21:45	1.0					3 4 5 1	
022	ib622	ICAL	75PPB			06-FEB-2006 22:20	1.0					3 4 5 1	
023	ib623	ICAL	100PPB			06-FEB-2006 22:56	1.0					3 4 5 1	
024	ib624	X	25PPB			06-FEB-2006 23:31	1.0					6 1	
025	ib625	X	25PPB			07-FEB-2006 00:06	1.0					7 8 1	
026	ib626	X	IB			07-FEB-2006 00:41	1.0					1	
027	ib627	X	IB			07-FEB-2006 01:15	1.0					1	
028	ib628	X	IB			07-FEB-2006 01:51	1.0					1	

Stds used: 1=S2286 2=S2327 3=S2552 4=S2349 5=S2028 6=S2606 7=S2616 8=S2436
Flags used: t=tune failure

Analyst: 503 Date: 2/8/06

02/08/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 486056789 Instrument: MSVOA09 HP GCMS VOA 09 Begun: 08-FEB-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	ib801	X	IB			08-FEB-2006 10:29	1.0						1	
002	ib802	TUN	BFB			08-FEB-2006 11:25	1.0						2	
003	~~ib803~~	CCV	30PPB			08-FEB-2006 11:45	1.0	1		5000			3 4 5 1	1:CYHEKE=317,941
004	ib804	ICV	QC327315	110273	Water	08-FEB-2006 12:33	1.0	3		5000			6 7 8 1	
005	ib805	BSD	QC327316	110273	Water	08-FEB-2006 13:08	1.0	3	1	5000			6 7 8 1	
006	ib806	X	IB			08-FEB-2006 13:43	1.0						1	
007	ib807	BLANK	QC327314	110273	Water	08-FEB-2006 14:19	1.0		1	5000			1	

134

Stds used: 1=S2286 2=S2327 3=S2661 4=S2552 5=S2028 6=S2691 7=S2616 8=S2436

Analyst: SOO Date: 2/8/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 486105770 Instrument: MSVOA09 HP GCMS VOA 09 Begun: 14-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	ice01	TUN	BFB			14-MAR-2006 10:50	1.0						1	
002	ice02	CCV	35PPB			14-MAR-2006 11:08	1.0	1		5000			2 3 4 5	
003	ice03	BS	QC331411	111284	Water	14-MAR-2006 11:54	1.0	3		5000			6 7 8 5	
004	ice04	BSD	QC331412	111284	Water	14-MAR-2006 12:30	1.0	3	1	5000			6 7 8 5	
005	ice05	X	IB			14-MAR-2006 13:05	1.0						5	
006	ice06	BLANK	QC331410	111284	Water	14-MAR-2006 13:40	1.0		1	5000			5	
007	ice07	SAMPLE	185463-001	111284	Water	14-MAR-2006 15:56	1.0			5000	C	2	5	
008	ice08	SAMPLE	185479-046	111284	Water	14-MAR-2006 16:31	714.3			5000	B		5	
009	ice09	SAMPLE	185479-006	111284	Water	14-MAR-2006 17:10	2.0			5000	B		5	
010	ice10	SAMPLE	185479-009	111284	Water	14-MAR-2006 17:45	1.429			5000	B		5	
011	ice11	SAMPLE	185517-003	111284	Water	14-MAR-2006 18:20	1.0			5000	A		5	
012	ice12	SAMPLE	185517-002	111284	Water	14-MAR-2006 18:54	1.0			5000	A	7	5	
013	ice13	SAMPLE	185517-001	111284	Water	14-MAR-2006 19:29	1.0			5000	A	2	5	
014	ice14	SAMPLE	185518-001	111284	Water	14-MAR-2006 20:03	1.0			5000	A		5	
015	ice15	SAMPLE	185518-002	111284	Water	14-MAR-2006 20:38	1.0			5000	A		5	
016	ice16	SAMPLE	185515-001	111284	Water	14-MAR-2006 21:13	1.0			5000	C		5	
017	ice17	X	IB			14-MAR-2006 21:47	1.0						5	
018	ice18	X	IB			14-MAR-2006 22:22	1.0						5	
019	ice19	X	IB			14-MAR-2006 22:56	1.0						5	

135

Stds used: 1=S2327 2=S2668 3=S2661 4=S2410 5=S2743 6=S2807 7=S2616 8=S2902

Analyst: GS Date: 3/13/06

3/15/06

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185463 8260 Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CLM	VEE	BRA	CLE	AC1	DCN	MCT	CEE	MCT	DEE	VCL	DCE	MCT	DCE	TCL	TCL	CCA	DCE	BCL	TCL	DCE	BCL	MCT	DCE	BCL	DCE	TCL	HXA	PCB	DCB	CCA	EZO	XCE	XCB	TLB	SBZ	TYL	OYL	TOT	SYB	TMC	PCB	DCB	DCB	BZR
185463-001	MSVOA09	03/14/06 15:56	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC331410	MSVOA09	03/14/06 13:40	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC331411	MSVOA09	03/14/06 11:54	1.0					+												+	+				+					+																+	+	+	+
QC331412	MSVOA09	03/14/06 12:30	1.0					+												+	+				+					+																+	+	+	+

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 3/14/06

PREPPED BY:

WATER

	SAMPLE NUM	AMT o/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	185479-006		B	<2			9	2x	
2	479-009				LV			1,42x 714x	
3	46		B	<2				1x	
4	185463-001		C	<2				alias 434-2 1x	
5	515-001		C					1x	
6	517-001		A						
7	-002		B	7					
8	-003		A	<2					
9	518-001		A						
0	-002		A						
1									
2									
3									
14									
15									
16									
17									
18									
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42									

PREPFORM.3

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water
As of 04/29/06

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
1,1-Dichloroethene	ug/L	0.27	0.22	0.062	0.17	0.10	0.085	0.089
Benzene	ug/L	0.11	0.041	0.060	0.061	0.12	0.044	0.027
Trichloroethene	ug/L	0.21	0.076	0.18	0.17	0.11	0.072	0.087
Toluene	ug/L	0.083	0.083	0.12	0.092	0.062	0.063	0.053
Chlorobenzene	ug/L	0.10	0.090	0.11	0.16	0.16	0.079	0.050
Freon 12	ug/L	0.18	0.099	0.22	0.062	0.15	0.24	0.18
Chloromethane	ug/L	0.12	0.16	0.12	0.18	0.13	0.16	0.089
Vinyl Chloride	ug/L	0.19	0.23	0.10	0.066	0.10	0.17	0.16
Bromomethane	ug/L	0.29	0.30	0.31	0.13	0.31	0.23	0.20
Chloroethane	ug/L	0.33	0.33	0.15	0.16	0.13	0.16	0.12
Trichlorofluoromethane	ug/L	0.16	0.057	0.17	0.10	0.080	0.089	0.10
Acetone	ug/L	0.39	0.87	0.21	0.85	0.16	0.26	0.49
Freon 113	ug/L	0.062	0.12	0.13	0.25	0.071	0.20	0.091
Methylene Chloride	ug/L	0.15	0.21	0.11	0.12	0.16	0.099	0.22
MTBE	ug/L	0.069	0.074	0.065	0.045	0.040	0.051	0.052
Carbon Disulfide	ug/L	0.039	0.031	0.086	0.076	0.11	0.058	0.037
trans-1,2-Dichloroethene	ug/L	0.37	0.13	0.18	0.051	0.064	0.11	0.093
Vinyl Acetate	ug/L	0.076	0.36	0.084	0.99	0.40	0.080	0.10
1,1-Dichloroethane	ug/L	0.088	0.061	0.048	0.090	0.11	0.063	0.063
2-Butanone	ug/L	0.16	0.17	0.20	0.50	0.099	0.17	0.26
cis-1,2-Dichloroethene	ug/L	0.26	0.18	0.083	0.12	0.042	0.096	0.11
2,2-Dichloropropane	ug/L	0.093	0.17	0.077	0.12	0.066	0.084	0.083
Chloroform	ug/L	0.082	0.055	0.086	0.060	0.11	0.030	0.044
Bromochloromethane	ug/L	0.091	0.090	0.10	0.18	0.11	0.20	0.15
1,1,1-Trichloroethane	ug/L	0.084	0.066	0.14	0.11	0.061	0.045	0.041
1,1-Dichloropropene	ug/L	0.12	0.11	0.081	0.16	0.16	0.052	0.055
Carbon Tetrachloride	ug/L	0.089	0.11	0.098	0.17	0.15	0.095	0.056
1,2-Dichloroethane	ug/L	0.090	0.088	0.099	0.096	0.12	0.058	0.056
1,2-Dichloropropane	ug/L	0.093	0.060	0.079	0.071	0.14	0.072	0.12
Bromodichloromethane	ug/L	0.086	0.039	0.067	0.074	0.10	0.081	0.069
Dibromomethane	ug/L	0.16	0.061	0.092	0.16	0.11	0.065	0.13
4-Methyl-2-Pentanone	ug/L	0.044	0.076	0.057	0.20	0.13	0.092	0.25
cis-1,3-Dichloropropene	ug/L	0.068	0.065	0.056	0.20	0.16	0.042	0.044
trans-1,3-Dichloropropene	ug/L	0.074	0.074	0.044	0.073	0.14	0.071	0.060
1,1,2-Trichloroethane	ug/L	0.12	0.12	0.14	0.19	0.15	0.094	0.058
2-Hexanone	ug/L	0.043	0.31	0.047	0.34	0.11	0.13	0.14
1,3-Dichloropropane	ug/L	0.064	0.067	0.061	0.063	0.10	0.045	0.068
Tetrachloroethene	ug/L	0.13	0.14	0.12	0.22	0.14	0.090	0.093
Dibromochloromethane	ug/L	0.099	0.054	0.10	0.085	0.056	0.077	0.063
1,2-Dibromoethane	ug/L	0.16	0.061	0.10	0.073	0.11	0.053	0.070
2-Chloroethylvinylether	ug/L	0.093	0.18	0.24	0.17	0.14	0.20	0.23
1,1,1,2-Tetrachloroethane	ug/L	0.11	0.087	0.10	0.11	0.14	0.046	0.088
Ethylbenzene	ug/L	0.059	0.076	0.075	0.17	0.041	0.060	0.11
m,p-Xylenes	ug/L	0.24	0.22	0.14	0.27	0.17	0.13	0.20
o-Xylene	ug/L	0.10	0.058	0.092	0.11	0.16	0.11	0.13

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water
As of 04/29/06

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
Styrene	ug/L	0.12	0.092	0.098	0.085	0.16	0.075	0.061
Bromoform	ug/L	0.12	0.088	0.11	0.18	0.094	0.079	0.15
Isopropylbenzene	ug/L	0.12	0.059	0.090	0.18	0.059	0.053	0.10
1,1,2,2-Tetrachloroethane	ug/L	0.13	0.096	0.086	0.047	0.13	0.070	0.055
1,2,3-Trichloropropane	ug/L	0.31	0.28	0.074	0.11	0.17	0.20	0.16
Propylbenzene	ug/L	0.075	0.10	0.063	0.21	0.023	0.055	0.11
Bromobenzene	ug/L	0.12	0.12	0.10	0.19	0.12	0.073	0.085
1,3,5-Trimethylbenzene	ug/L	0.060	0.095	0.047	0.14	0.057	0.077	0.13
2-Chlorotoluene	ug/L	0.12	0.11	0.068	0.15	0.025	0.047	0.12
4-Chlorotoluene	ug/L	0.079	0.069	0.043	0.14	0.037	0.032	0.069
tert-Butylbenzene	ug/L	0.11	0.15	0.075	0.19	0.038	0.042	0.079
1,2,4-Trimethylbenzene	ug/L	0.091	0.088	0.066	0.12	0.069	0.077	0.10
sec-Butylbenzene	ug/L	0.11	0.12	0.062	0.17	0.088	0.041	0.076
para-Isopropyl Toluene	ug/L	0.058	0.12	0.12	0.14	0.056	0.055	0.045
1,3-Dichlorobenzene	ug/L	0.080	0.16	0.097	0.18	0.060	0.071	0.10
1,4-Dichlorobenzene	ug/L	0.068	0.14	0.095	0.18	0.038	0.092	0.17
n-Butylbenzene	ug/L	0.12	0.15	0.11	0.18	0.21	0.048	0.12
1,2-Dichlorobenzene	ug/L	0.072	0.14	0.080	0.14	0.16	0.068	0.061
1,2-Dibromo-3-Chloropropane	ug/L	0.39	0.25	0.21	0.22	0.13	0.26	0.098
1,2,4-Trichlorobenzene	ug/L	0.12	0.17	0.14	0.16	0.10	0.16	0.17
Hexachlorobutadiene	ug/L	0.19	0.19	0.29	0.21	0.11	0.24	0.25
Naphthalene	ug/L	0.12	0.13	0.060	0.10	0.091	0.20	0.16
1,2,3-Trichlorobenzene	ug/L	0.063	0.17	0.10	0.20	0.095	0.18	0.29
tert-Butyl Alcohol (TBA)	ug/L	1.3	1.6	0.83	2.5	1.3	0.94	1.3
Isopropyl Ether (DIPE)	ug/L	0.068	0.070	0.063	0.027	0.030	0.053	0.027
Ethyl tert-Butyl Ether (ETBE)	ug/L	0.089	0.045	0.024	0.20	0.033	0.075	0.034
Methyl tert-Amyl Ether (TAME)	ug/L	0.094	0.13	0.055	0.054	0.048	0.032	0.057
Isopropanol	ug/L	4.6	2.7	1.6	6.6	1.5	1.4	1.1
Ethanol	ug/L	55	22	23	50	11	7.9	36
Hexane	ug/L				0.33		0.15	
Cyclohexanone	ug/L	3.8	2.4	0.21	1.6	1.6	2.5	
Tetrahydrofuran	ug/L	0.64	1.2	1.1	0.79	1.4	1.7	3.5
Tetramethyl THF	ug/L	0.067	0.061	0.062	0.20	0.10	0.055	0.078
Gasoline C6-C10	ug/L		15		4.8	15	8.5	
Gasoline C7-C12	ug/L		18		2.4	13	7.7	
Dibromofluoromethane	ug/L	3.1	2.9	1.8	2.4	1.5		3.2
1,2-Dichloroethane-d4	ug/L	3.0	3.9		2.4	1.2		3.0
Toluene-d8	ug/L	1.7	3.8		1.1	1.0		1.1
Bromofluorobenzene	ug/L	2.5	2.6		1.2	1.2		1.5
Trifluorotoluene	ug/L	0.12	0.43	0.065	0.21	0.13		0.14

POLYAROMATIC HYDROCARBONS

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	1221GW103	Batch#:	111260
Lab ID:	185463-002	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/13/06
Diln Fac:	1.000	Analyzed:	03/17/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.95	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.95	
Fluorene	ND	0.95	
Phenanthrene	ND	0.48	
Anthracene	ND	0.48	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	90	65-135
1-Methylnaphthalene (F)	83	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331305	Batch#:	111260
Matrix:	Water	Prepared:	03/13/06
Units:	ug/L	Analyzed:	03/15/06

Analyte	Result	RL	MDL
Naphthalene	ND	1.0	
Acenaphthylene	ND	2.0	
Acenaphthene	ND	1.0	
Fluorene	ND	1.0	
Phenanthrene	ND	0.50	
Anthracene	ND	0.50	0.008
Fluoranthene	ND	0.40	0.02
Pyrene	ND	0.20	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	93	65-135
1-Methylnaphthalene (F)	86	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331306	Batch#:	111260
Matrix:	Water	Prepared:	03/13/06
Units:	ug/L	Analyzed:	03/15/06

Analyte	Spiked	Result	%REC	Limits
Naphthalene	10.00	9.226	92	50-135
Fluorene	2.000	1.927	96	65-135
Pyrene	1.000	0.8919	89	65-135
Benzo(a)pyrene	1.000	0.8984	90	65-135

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	93	65-135
1-Methylnaphthalene (F)	86	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	DAESP03	Batch#:	111260
MSS Lab ID:	185408-008	Sampled:	03/08/06
Matrix:	Water	Received:	03/09/06
Units:	ug/L	Prepared:	03/13/06
Diln Fac:	1.000	Analyzed:	03/16/06

Type: MS Lab ID: QC331307

Analyte	MSS Result	Spiked	Result	%REC	Limits
Naphthalene	<0.07094	9.804	8.756	89	50-135
Fluorene	<0.01512	1.961	1.890	96	65-135
Pyrene	<0.007337	0.9804	0.8130	83	65-135
Benzo(a)pyrene	<0.007689	0.9804	0.4616	47 *	65-135

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	93	65-135
1-Methylnaphthalene (F)	86	65-135

Type: MSD Lab ID: QC331308

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Naphthalene	9.804	9.245	94	50-135	5	35
Fluorene	1.961	1.950	99	65-135	3	35
Pyrene	0.9804	0.8203	84	65-135	1	35
Benzo(a)pyrene	0.9804	0.4511	46 *	65-135	2	35

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	97	65-135
1-Methylnaphthalene (F)	89	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185463 HPLC Water: EPA 8310

Inst : HPLC04
Calnum : 295454249001
Units : ug/L

Date : 11-NOV-2005 13:27
X Axis : R

Reviewer: MCH
Inj Vol : 10 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	31500006	295454249006		11-NOV-2005 13:27	S1620
L2	31500007	295454249007		11-NOV-2005 13:58	S1619
L3	31500008	295454249008		11-NOV-2005 14:30	S1618
L4	31500009	295454249009		11-NOV-2005 15:02	S1617
L5	31500010	295454249010		11-NOV-2005 15:33	S1616
L6	31500011	295454249011		11-NOV-2005 16:05	S1615
L7	31500012	295454249012		11-NOV-2005 16:36	S1614

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Naphthalene	1	0.0130	0.0130	0.0130	0.0132	0.0131	0.0129	0.0130	LINR	-24.714	77.1181		0.0130	1.000	0.99	20	
Acenaphthylene	1	0.0092	0.0091	0.0093	0.0095	0.0094	0.0092	0.0091	LINR	-214.44	109.425		0.0093	1.000	0.99	20	
Acenaphthene	1	0.0049	0.0049	0.0051	0.0052	0.0051	0.0050	0.0050	LINR	-85.609	200.350		0.0050	1.000	0.99	20	
Fluorene	1	0.0623	0.0618	0.0631	0.0639	0.0633	0.0627	0.0629	LINR	-2.8635	15.9062		0.0629	1.000	0.99	20	
Phenanthrene	1	0.1801	0.1766	0.1803	0.1826	0.1801	0.1784	0.1795	LINR	-1.3045	5.57871		0.1797	1.000	0.99	20	
Anthracene	1	0.4031	0.4032	0.4080	0.4134	0.4084	0.4043	0.4050	LINR	-3.4533	2.47159		0.4065	1.000	0.99	20	
Fluoranthene	1	0.0405	0.0401	0.0407	0.0416	0.0411	0.0407	0.0412	LINR	4.76117	24.3260		0.0408	1.000	0.99	20	
Pyrene	1	0.0324	0.0319	0.0332	0.0334	0.0330	0.0331	0.0336	LINR	8.56100	29.7835		0.0329	1.000	0.99	20	
Benzo(a)anthracene	1	0.0846	0.0904	0.0906	0.0917	0.0910	0.0903	0.0918	LINR	6.16312	10.9120		0.0901	1.000	0.99	20	
Chrysene	1	0.1299	0.1298	0.1319	0.1351	0.1332	0.1321	0.1335	LINR	2.64524	7.49865		0.1322	1.000	0.99	20	
Benzo(b)fluoranthene	1	0.0989	0.1025	0.1054	0.1076	0.1069	0.1059	0.1068	LINR	5.37165	9.37329		0.1049	1.000	0.99	20	
Benzo(k)fluoranthene	1	0.0806	0.0758	0.0785	0.0804	0.0803	0.0803	0.0814	LINR	9.05452	12.2962		0.0796	1.000	0.99	20	
Benzo(a)pyrene	1	0.0781	0.0812	0.0842	0.0867	0.0863	0.0861	0.0870	LINR	8.12100	11.4914		0.0842	1.000	0.99	20	
Dibenz(a,h)anthracene	1	0.0174	0.0209	0.0203	0.0209	0.0211	0.0213	0.0216	LINR	28.9418	46.3202		0.0205	1.000	0.99	20	
Benzo(g,h,i)perylene	1	0.0332	0.0346	0.0347	0.0354	0.0353	0.0353	0.0357	LINR	17.3259	27.9927		0.0349	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	1	0.0843	0.0838	0.0916	0.0948	0.0947	0.0946	0.0953	LINR	8.70680	10.4860		0.0913	1.000	0.99	20	
1-Methylnaphthalene (UV)	1	0.0084	0.0085	0.0086	0.0086	0.0085	0.0084	0.0084	LINR	-262.66	119.128		0.0085	1.000	0.99	20	
Acenaphthylene	2	0.0273	0.0273	0.0279	0.0282	0.0280	0.0277	0.0279	LINR	7.54152	35.8750		0.0277	1.000	0.99	20	
1-Methylnaphthalene (UV)	2	0.0030	0.0030	0.0031	0.0031	0.0031	0.0030	0.0030	LINR	-125.29	329.273		0.0031	1.000	0.99	20	
Naphthalene	3	0.0118	0.0118	0.0118	0.0119	0.0119	0.0117	0.0116	LINR	-94.622	86.2298		0.0118	1.000	0.99	20	
Acenaphthene	3	0.0242	0.0241	0.0242	0.0246	0.0244	0.0239		LINR	-65.047	41.8154		0.0242	1.000	0.99	20	
Fluorene	3	0.1329	0.1328	0.1337	0.1349	0.1333	0.1303		LINR	-17.920	7.68242		0.1330	1.000	0.99	20	
Phenanthrene	3	0.1403	0.1414	0.1416	0.1432	0.1419	0.1386	0.1387	LINR	-8.7849	7.22392		0.1408	1.000	0.99	20	
Anthracene	3	0.4105	0.4089	0.4142	0.4203	0.4141	0.4106	0.4119	LINR	-2.5156	2.43034		0.4129	1.000	0.99	20	
Fluoranthene	3	0.0408	0.0402	0.0409	0.0415	0.0411	0.0406	0.0409	LINR	-2.6821	24.5038		0.0409	1.000	0.99	20	
Pyrene	3	0.1357	0.1319	0.1342	0.1369	0.1342	0.1312	0.1332	LINR	-2.1762	7.53143		0.1339	1.000	0.99	20	

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Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Benzo(a)anthracene	3	0.1507	0.1492	0.1525	0.1551	0.1526	0.1506	0.1519	LINR	-1.3548	6.59583		0.1518	1.000	0.99	20	
Chrysene	3	0.1830	0.1826	0.1864	0.1898	0.1872	0.1843	0.1845	LINR	-5.3078	5.42554		0.1854	1.000	0.99	20	
Benzo(b)fluoranthene	3	0.0661	0.0655	0.0671	0.0681	0.0672	0.0664	0.0670	LINR	-0.3738	14.9546		0.0668	1.000	0.99	20	
Benzo(k)fluoranthene	3	0.3904	0.3881	0.3960	0.4014	0.3974	0.3923	0.3904	LINR	-7.1975	2.56238		0.3937	1.000	0.99	20	
Benzo(a)pyrene	3	0.2124	0.2112	0.2162	0.2193	0.2168	0.2137	0.2143	LINR	-3.8765	4.67175		0.2148	1.000	0.99	20	
Dibenz(a,h)anthracene	3	0.0298	0.0299	0.0311	0.0319	0.0317	0.0316	0.0320	LINR	14.7159	31.2756		0.0311	1.000	0.99	20	
Benzo(g,h,i)perylene	3	0.0617	0.0613	0.0626	0.0641	0.0636	0.0633	0.0639	LINR	8.49542	15.6646		0.0629	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	3	0.0928	0.0930	0.0946	0.0968	0.0967	0.0963	0.0973	LINR	6.16011	10.2852		0.0953	1.000	0.99	20	
1-Methylnaphthalene (F)	3	0.0132	0.0131	0.0132	0.0133	0.0132	0.0128		LINR	-457.43	78.4104		0.0131	1.000	0.99	20	

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LINR=Linear regression

Instrument amount = a0 + response * a1 + response^2 * a2

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Calibration Table

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NEW ICAL. gm 14 NOV 2005

HPLC04 METHOD 8310

Calib. Data Modified : 11/14/2005 4:07:02 PM

Calculate : External Standard
Based on : Peak Area

mars 11/15/05

Rel. Reference Window : 1.000 %
Abs. Reference Window : 0.200 min
Rel. Non-ref. Window : 1.000 %
Abs. Non-ref. Window : 0.250 min
Do not use Multiplier & Dilution Factor with ISTDs
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Signal 1: DAD1 A, Sig=254,4 Ref=480,80
Signal 2: DAD1 B, Sig=305,4 Ref=480,80
Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
4.798	1	1	500.00000	6.51225	76.77836			Naphthalene
		2	1000.00000	13.02439	76.77905			
		3	2500.00000	32.45070	77.03995			
		4	5000.00000	65.81794	75.96713			
		5	1.00000e4	130.82538	76.43777			
		6	2.50000e4	323.61371	77.25260			
		7	5.00000e4	648.90906	77.05240			
4.839	3	1	500.00000	5.89779	84.77755			Naphthalene
		2	1000.00000	11.75017	85.10517			
		3	2500.00000	29.52386	84.67727			
		4	5000.00000	59.72798	83.71286			
		5	1.00000e4	118.70710	84.24096			
		6	2.50000e4	292.13416	85.57712			
		7	5.00000e4	580.05115	86.19930			
6.052	1	1	1000.00000	9.19383	108.76859			Acenaphthylene
		2	2000.00000	18.17297	110.05354			
		3	5000.00000	46.41474	107.72440			
		4	1.00000e4	94.72365	105.57026			
		5	2.00000e4	187.69478	106.55597			
		6	5.00000e4	461.84637	108.26111			
		7	1.00000e5	913.74396	109.43985			
6.053	2	1	1000.00000	27.33126	36.58814			Acenaphthylene
		2	2000.00000	54.50918	36.69107			
		3	5000.00000	139.26938	35.90165			

Method G:\HPLC4\METHODS\8310-315.M

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		4	1.00000e4	281.69171	35.49980			
		5	2.00000e4	559.80969	35.72643			
		6	5.00000e4	1386.26819	36.06806			
		7	1.00000e5	2790.07104	35.84138			
6.831	1	1	2000.00000	16.88634	118.43892			1-Methylnaphthalene (UV)
		2	4000.00000	33.87627	118.07677			
		3	1.00000e4	85.59682	116.82676			
		4	2.00000e4	172.90190	115.67253			
		5	4.00000e4	341.59979	117.09609			
		6	1.00000e5	839.73962	119.08453			
		7	2.00000e5	1681.10107	118.96965			
6.832	2	1	2000.00000	6.07634	329.14529			1-Methylnaphthalene (UV)
		2	4000.00000	12.02570	332.62101			
		3	1.00000e4	30.92526	323.36029			
		4	2.00000e4	62.05173	322.31170			
		5	4.00000e4	122.53880	326.42721			
		6	1.00000e5	302.71973	330.33856			
		7	2.00000e5	608.23541	328.82005			
6.872	3	1	2000.00000	26.32489	75.97373			1-Methylnaphthalene (F)
		2	4000.00000	52.31355	76.46202			
		3	1.00000e4	131.50134	76.04485			
		4	2.00000e4	266.55655	75.03098			
		5	4.00000e4	526.67639	75.94796			
		6	1.00000e5	1276.22900	78.35584			
7.280	1	1	500.00000	5.56723	89.81128			2-Methylnaphthalene
		2	1000.00000	11.21599	89.15845			
		3	2500.00000	28.88600	86.54713			
		4	5000.00000	58.62328	85.29035			
		5	1.00000e4	116.21339	86.04861			
		6	2.50000e4	286.22339	87.34436			
7.335	3	1	500.00000	7.99274	62.55677			2-Methylnaphthalene
		2	1000.00000	15.91236	62.84423			
		3	2500.00000	40.03383	62.44718			
		4	5000.00000	81.15388	61.61135			
		5	1.00000e4	161.03452	62.09849			
		6	2.50000e4	395.10352	63.27456			
7.672	1	1	500.00000	2.42577	206.12028			Acenaphthene
		2	1000.00000	4.86201	205.67637			
		3	2500.00000	12.71169	196.66929			
		4	5000.00000	25.83322	193.54924			
		5	1.00000e4	51.07816	195.77838			
		6	2.50000e4	125.66128	198.94752			
		7	5.00000e4	249.59686	200.32303			
7.712	3	1	500.00000	12.09695	41.33272			Acenaphthene
		2	1000.00000	24.11610	41.46607			
		3	2500.00000	60.52220	41.30716			
		4	5000.00000	122.93717	40.67118			
		5	1.00000e4	243.99982	40.98364			
		6	2.50000e4	597.90503	41.81266			
8.199	1	1	100.00000	6.23287	16.04397			Fluorene
		2	200.00000	12.36933	16.16903			
		3	500.00000	31.54358	15.85108			
		4	1000.00000	63.90393	15.64849			
		5	2000.00000	126.50168	15.81007			
		6	5000.00000	313.40030	15.95404			
		7	1.00000e4	629.23938	15.89220			
8.239	3	1	100.00000	13.29075	7.52403			Fluorene
		2	200.00000	26.56478	7.52876			
		3	500.00000	66.85545	7.47882			
		4	1000.00000	134.87556	7.41424			
		5	2000.00000	266.58530	7.50229			
		6	5000.00000	651.29639	7.67700			
9.318	1	1	50.00000	9.00343	5.55344			Phenanthrene

Method G:\HPLC4\METHODS\8310-315.M

RetTime [min]	Lvl Sig		Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	100.00000	17.66359	5.66136			
		3	250.00000	45.08168	5.54549			
		4	500.00000	91.29965	5.47647			
		5	1000.00000	180.14212	5.55117			
		6	2500.00000	446.01529	5.60519			
		7	5000.00000	897.40991	5.57159			
9.358	3	1	50.00000	7.01743	7.12511			Phenanthrene
		2	100.00000	14.14166	7.07130			
		3	250.00000	35.38944	7.06425			
		4	500.00000	71.59289	6.98393			
		5	1000.00000	141.86461	7.04897			
		6	2500.00000	346.48584	7.21530			
		7	5000.00000	693.25409	7.21236			
10.346	1	1	50.00000	20.15521	2.48075			Anthracene
		2	100.00000	40.32065	2.48012			
		3	250.00000	101.99684	2.45106			
		4	500.00000	206.70654	2.41889			
		5	1000.00000	408.35837	2.44883			
		6	2500.00000	1010.66217	2.47363			
		7	5000.00000	2024.80078	2.46938			
10.386	3	1	50.00000	20.52480	2.43608			Anthracene
		2	100.00000	40.89180	2.44548			
		3	250.00000	103.54391	2.41443			
		4	500.00000	210.14381	2.37932			
		5	1000.00000	414.05106	2.41516			
		6	2500.00000	1026.49353	2.43548			
		7	5000.00000	2059.37134	2.42793			
11.504	1	1	100.00000	4.05160	24.68162			Fluoranthene
		2	200.00000	8.01856	24.94213			
		3	500.00000	20.35011	24.56989			
		4	1000.00000	41.57235	24.05445			
		5	2000.00000	82.13621	24.34980			
		6	5000.00000	203.73349	24.54187			
		7	1.00000e4	411.60339	24.29523			
11.543	3	1	100.00000	4.08160	24.50019			Fluoranthene
		2	200.00000	8.04222	24.86875			
		3	500.00000	20.46036	24.43750			
		4	1000.00000	41.54289	24.07151			
		5	2000.00000	82.12543	24.35299			
		6	5000.00000	203.17122	24.60978			
		7	1.00000e4	408.57028	24.47559			
12.274	1	1	50.00000	1.62059	30.85291			Pyrene
		2	100.00000	3.19098	31.33834			
		3	250.00000	8.29422	30.14147			
		4	500.00000	16.68730	29.96290			
		5	1000.00000	32.97289	30.32795			
		6	2500.00000	82.77225	30.20336			
		7	5000.00000	168.06082	29.75113			
12.313	3	1	50.00000	6.78313	7.37123			Pyrene
		2	100.00000	13.19262	7.58000			
		3	250.00000	33.54156	7.45344			
		4	500.00000	68.45862	7.30368			
		5	1000.00000	134.23868	7.44942			
		6	2500.00000	328.05682	7.62063			
		7	5000.00000	665.85370	7.50916			
15.125	1	1	50.00000	4.23180	11.81530			Benzo(a)anthracene
		2	100.00000	9.04188	11.05964			
		3	250.00000	22.65013	11.03746			
		4	500.00000	45.84408	10.90653			
		5	1000.00000	91.03773	10.98446			
		6	2500.00000	225.67519	11.07787			
		7	5000.00000	459.00107	10.89322			
15.164	3	1	50.00000	7.53349	6.63703			Benzo(a)anthracene

Method G:\HPLC4\METHODS\8310-315.M

RetTime [min]	Lvl Sig		Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	100.00000	14.92142	6.70177			
		3	250.00000	38.11910	6.55839			
		4	500.00000	77.56648	6.44608			
		5	1000.00000	152.59743	6.55319			
		6	2500.00000	376.53439	6.63950			
		7	5000.00000	759.30841	6.58494			
15.624	1	1	50.00000	6.49550	7.69764			Chrysene
		2	100.00000	12.97757	7.70560			
		3	250.00000	32.97633	7.58119			
		4	500.00000	67.56745	7.40001			
		5	1000.00000	133.20935	7.50698			
		6	2500.00000	330.15082	7.57230			
		7	5000.00000	667.71228	7.48826			
15.664	3	1	50.00000	9.15220	5.46317			Chrysene
		2	100.00000	18.25678	5.47742			
		3	250.00000	46.59403	5.36549			
		4	500.00000	94.90897	5.26821			
		5	1000.00000	187.15659	5.34312			
		6	2500.00000	460.78613	5.42551			
		7	5000.00000	922.53937	5.41982			
17.842	1	1	100.00000	9.89154	10.10965			Benzo(b)fluoranthene
		2	200.00000	20.49215	9.75983			
		3	500.00000	52.71000	9.48587			
		4	1000.00000	107.62183	9.29180			
		5	2000.00000	213.82385	9.35349			
		6	5000.00000	529.55377	9.44191			
		7	1.00000e4	1067.59534	9.36684			
17.883	3	1	100.00000	6.61389	15.11970			Benzo(b)fluoranthene
		2	200.00000	13.10739	15.25857			
		3	500.00000	33.56808	14.89510			
		4	1000.00000	68.05548	14.69389			
		5	2000.00000	134.33257	14.88842			
		6	5000.00000	331.92670	15.06357			
		7	1.00000e4	669.70776	14.93189			
18.796	1	1	50.00000	4.03241	12.39953			Benzo(k)fluoranthene
		2	100.00000	7.57503	13.20127			
		3	250.00000	19.62153	12.74110			
		4	500.00000	40.20050	12.43765			
		5	1000.00000	80.29658	12.45383			
		6	2500.00000	200.76387	12.45244			
		7	5000.00000	406.82126	12.29041			
18.837	3	1	50.00000	19.52037	2.56143			Benzo(k)fluoranthene
		2	100.00000	38.80871	2.57674			
		3	250.00000	99.01035	2.52499			
		4	500.00000	200.72287	2.49100			
		5	1000.00000	397.35812	2.51662			
		6	2500.00000	980.66785	2.54928			
		7	5000.00000	1952.04028	2.56142			
19.734	1	1	50.00000	3.90437	12.80616			Benzo(a)pyrene
		2	100.00000	8.12252	12.31145			
		3	250.00000	21.05889	11.87147			
		4	500.00000	43.33799	11.53722			
		5	1000.00000	86.29072	11.58873			
		6	2500.00000	215.14328	11.62016			
		7	5000.00000	435.20081	11.48895			
19.774	3	1	50.00000	10.62241	4.70703			Benzo(a)pyrene
		2	100.00000	21.12371	4.73402			
		3	250.00000	54.04917	4.62542			
		4	500.00000	109.65622	4.55970			
		5	1000.00000	216.76112	4.61337			
		6	2500.00000	534.25336	4.67943			
		7	5000.00000	1071.43713	4.66663			
21.335	1	1	100.00000	1.74457	57.32080			Dibenz(a,h)anthracene

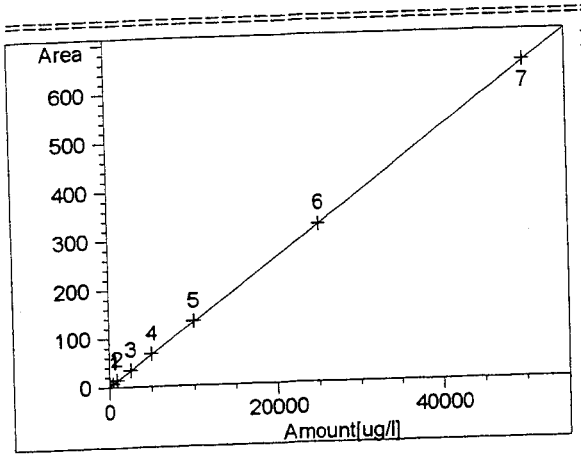
Method G:\HPLC4\METHODS\8310-315.M

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	200.00000	4.18672	47.77004			
		3	500.00000	10.15091	49.25669			
		4	1000.00000	20.86957	47.91665			
		5	2000.00000	42.28377	47.29947			
		6	5000.00000	106.57118	46.91700			
		7	1.00000e4	215.69028	46.36278			
21.376	3	1	100.00000	2.98045	33.55199			Dibenz(a,h)anthracene
		2	200.00000	5.97678	33.46283			
		3	500.00000	15.56407	32.12527			
		4	1000.00000	31.90387	31.34416			
		5	2000.00000	63.43048	31.53058			
		6	5000.00000	158.05646	31.63427			
		7	1.00000e4	319.90201	31.25957			
22.099	1	1	100.00000	3.32142	30.10762			Benzo(g,h,i)perylene
		2	200.00000	6.91262	28.93260			
		3	500.00000	17.35672	28.80728			
		4	1000.00000	35.38666	28.25924			
		5	2000.00000	70.51058	28.36454			
		6	5000.00000	176.29678	28.36127			
		7	1.00000e4	357.48672	27.97307			
22.140	3	1	100.00000	6.17302	16.19953			Benzo(g,h,i)perylene
		2	200.00000	12.25580	16.31880			
		3	500.00000	31.30061	15.97413			
		4	1000.00000	64.07645	15.60636			
		5	2000.00000	127.25459	15.71653			
		6	5000.00000	316.47900	15.79884			
		7	1.00000e4	638.82190	15.65382			
22.620	1	1	50.00000	4.21460	11.86352			Indeno(1,2,3-cd)pyrene
		2	100.00000	8.38093	11.93185			
		3	250.00000	22.88771	10.92289			
		4	500.00000	47.41936	10.54422			
		5	1000.00000	94.73141	10.55616			
		6	2500.00000	236.57013	10.56769			
		7	5000.00000	476.41440	10.49506			
22.661	3	1	50.00000	4.64120	10.77307			Indeno(1,2,3-cd)pyrene
		2	100.00000	9.29544	10.75796			
		3	250.00000	23.65410	10.56899			
		4	500.00000	48.39191	10.33231			
		5	1000.00000	96.65224	10.34637			
		6	2500.00000	240.76752	10.38346			
		7	5000.00000	486.34088	10.28085			

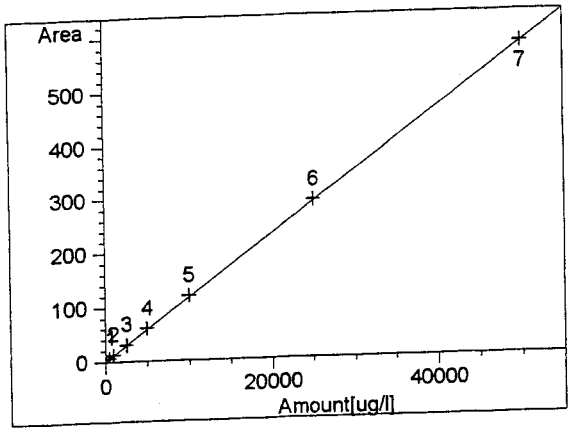
Peak Sum Table

No Entries in table

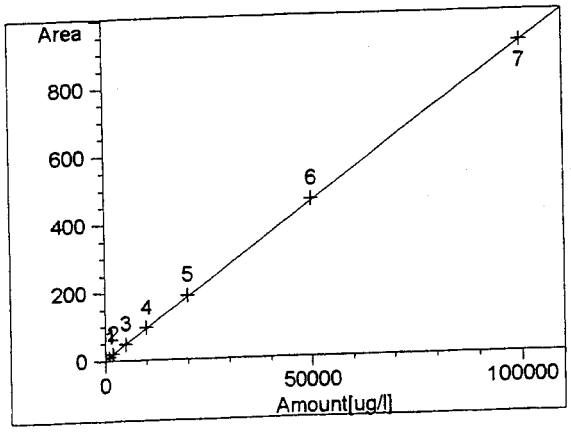
Calibration Curves



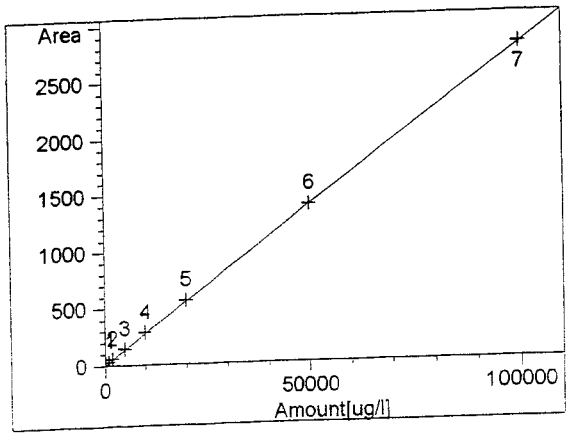
Naphthalene at exp. RT: 4.798
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.66440
Formula: y = mx + b
m: 1.29671e-2
b: 3.20474e-1
x: Amount[ug/l]
y: Area



Naphthalene at exp. RT: 4.839
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.21267
Formula: y = mx + b
m: 1.15969e-2
b: 1.09732
x: Amount[ug/l]
y: Area

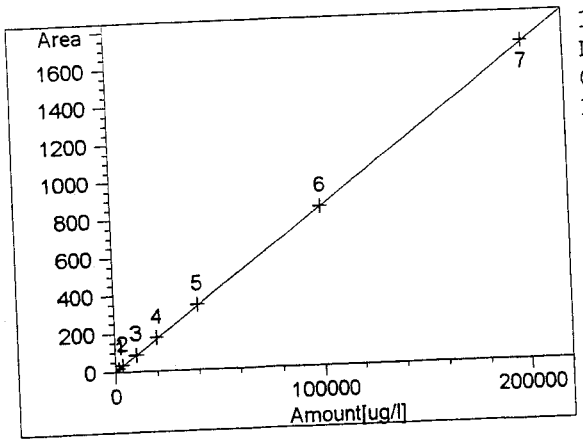


Acenaphthylene at exp. RT: 6.052
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 2.57482
Formula: y = mx + b
m: 9.13868e-3
b: 1.95971
x: Amount[ug/l]
y: Area

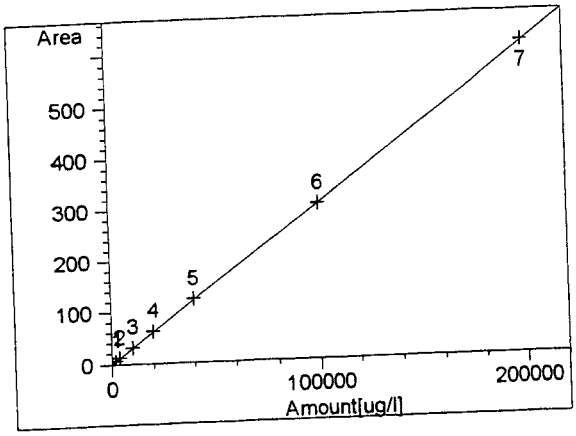


Acenaphthylene at exp. RT: 6.053
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 3.95166
Formula: y = mx + b
m: 2.78746e-2
b: -2.10217e-1
x: Amount[ug/l]
y: Area

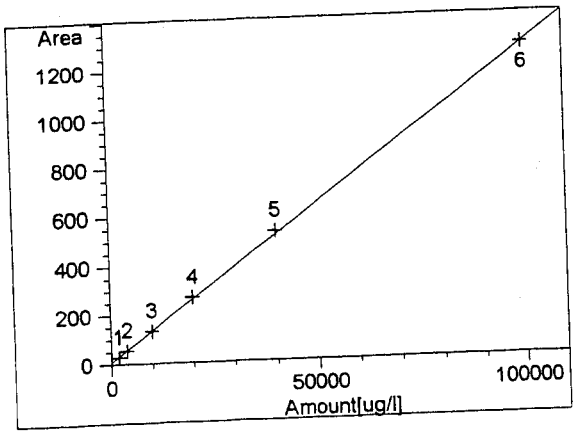
Method G:\HPLC4\METHODS\8310-315.M



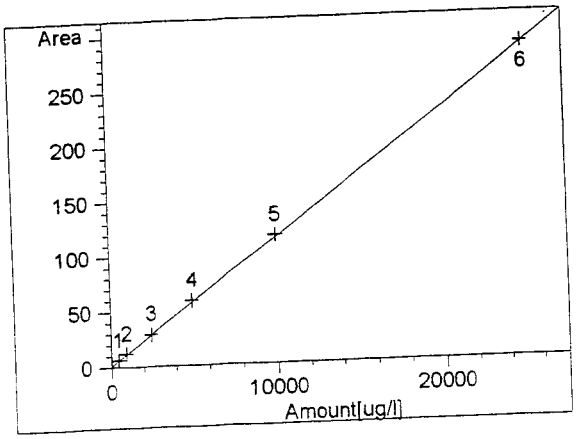
1-Methylnaphthalene (UV) at exp. RT: 6.831
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 2.56891
Formula: y = mx + b
m: 8.39433e-3
b: 2.20489
x: Amount[ug/l]
y: Area



1-Methylnaphthalene (UV) at exp. RT: 6.832
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.87319
Formula: y = mx + b
m: 3.03699e-3
b: 3.80514e-1
x: Amount[ug/l]
y: Area

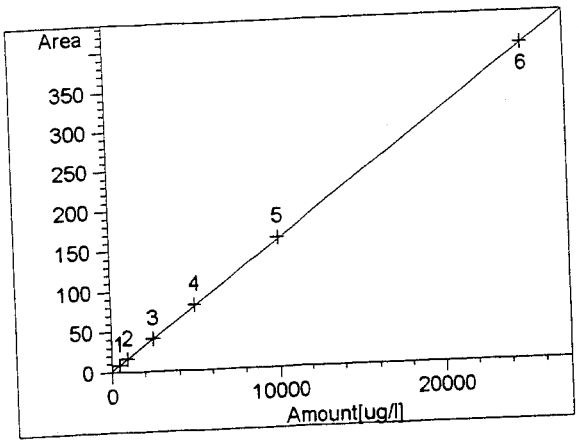


1-Methylnaphthalene (F) at exp. RT: 6.872
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99990
Residual Std. Dev.: 7.42050
Formula: y = mx + b
m: 1.27534e-2
b: 5.83375
x: Amount[ug/l]
y: Area

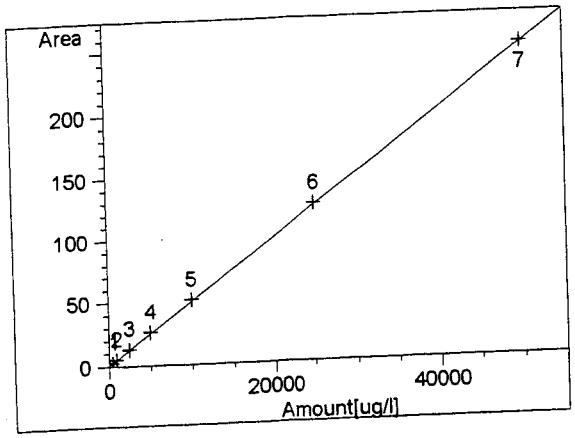


2-Methylnaphthalene at exp. RT: 7.280
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 0.93927
Formula: y = mx + b
m: 1.14550e-2
b: 4.51222e-1
x: Amount[ug/l]
y: Area

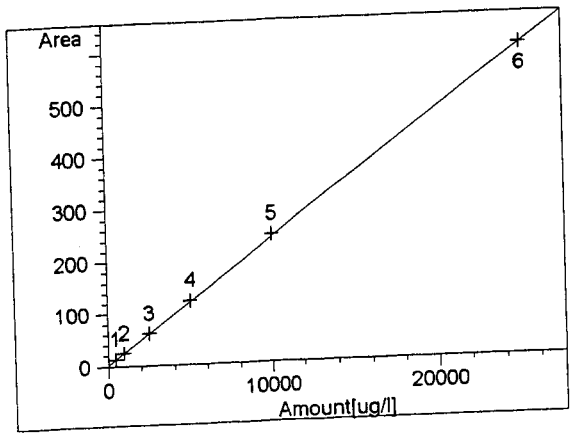
Method G:\HPLC4\METHODS\8310-315.M



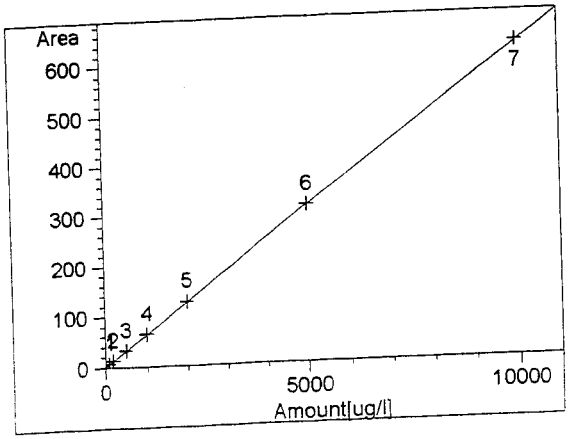
2-Methylnaphthalene at exp. RT: 7.335
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 1.42306
Formula: y = mx + b
m: 1.58022e-2
b: 9.88789e-1
x: Amount[ug/l]
y: Area



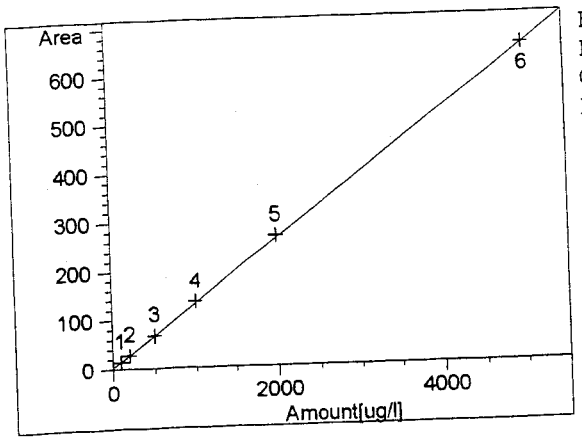
Acenaphthene at exp. RT: 7.672
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.58330
Formula: y = mx + b
m: 4.99125e-3
b: 4.27298e-1
x: Amount[ug/l]
y: Area



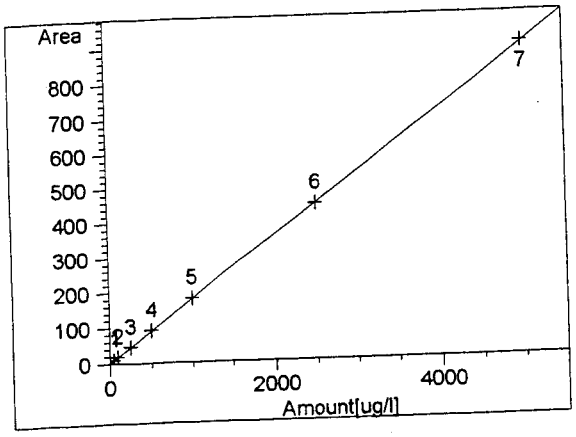
Acenaphthene at exp. RT: 7.712
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 2.28893
Formula: y = mx + b
m: 2.39146e-2
b: 1.55557
x: Amount[ug/l]
y: Area



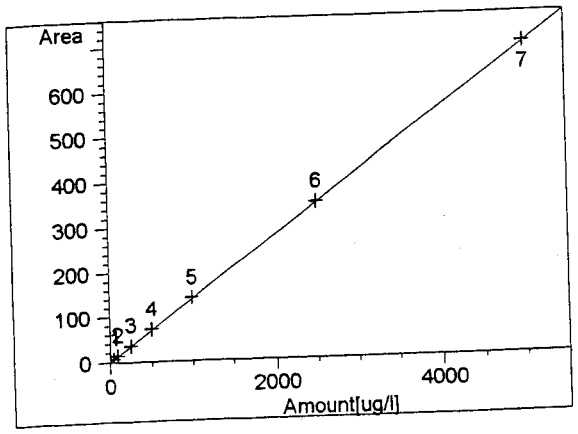
Fluorene at exp. RT: 8.199
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.73220
Formula: y = mx + b
m: 6.28687e-2
b: 1.80023e-1
x: Amount[ug/l]
y: Area



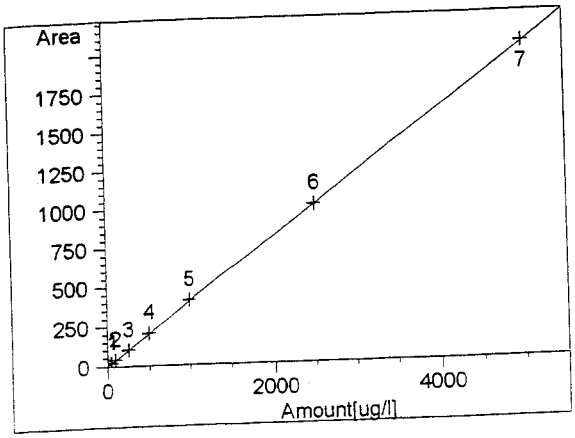
Fluorene at exp. RT: 8.239
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99995
Residual Std. Dev.: 2.84162
Formula: y = mx + b
m: 1.30167e-1
b: 2.33256
x: Amount[ug/l]
y: Area



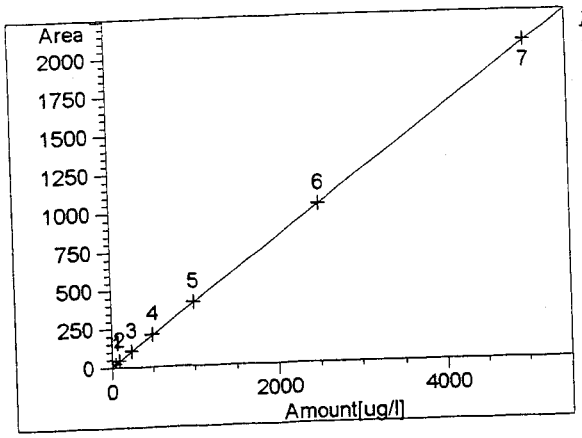
Phenanthrene at exp. RT: 9.318
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 1.35222
Formula: y = mx + b
m: 1.79253e-1
b: 2.33836e-1
x: Amount[ug/l]
y: Area



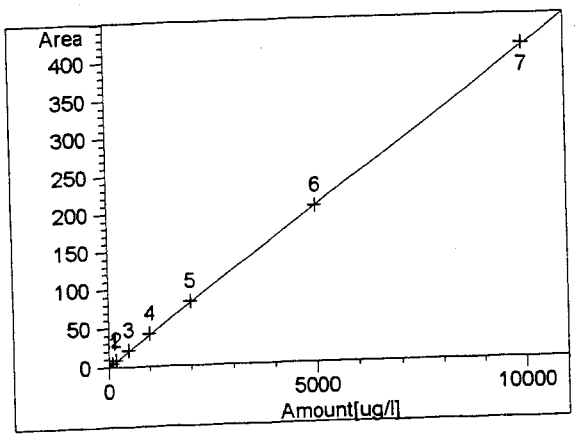
Phenanthrene at exp. RT: 9.358
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.35775
Formula: y = mx + b
m: 1.38429e-1
b: 1.21609
x: Amount[ug/l]
y: Area



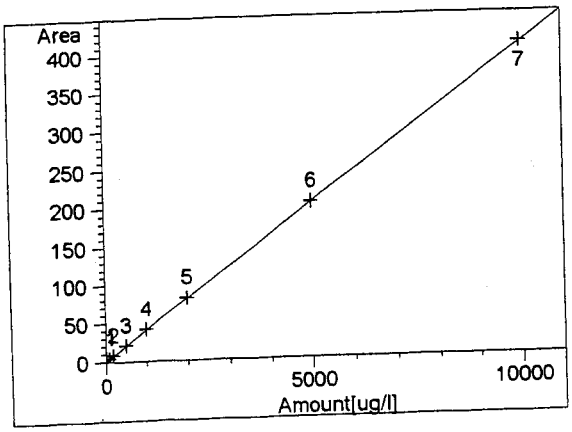
Anthracene at exp. RT: 10.346
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 2.21901
Formula: y = mx + b
m: 4.04598e-1
b: 1.39720
x: Amount[ug/l]
y: Area



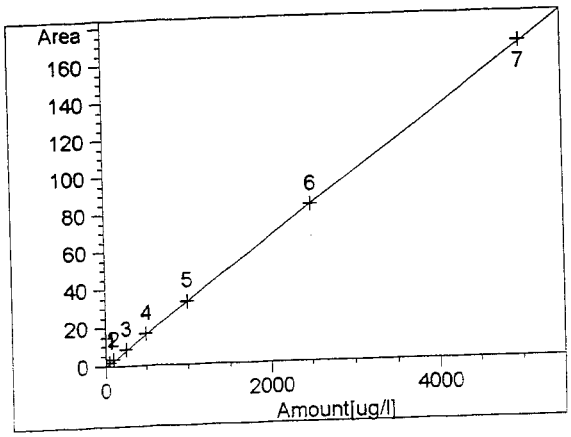
Anthracene at exp. RT: 10.386
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 2.36890
Formula: y = mx + b
m: 4.11465e-1
b: 1.03508
x: Amount[ug/l]
y: Area



Fluoranthene at exp. RT: 11.504
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.84613
Formula: y = mx + b
m: 4.11083e-2
b: -1.95725e-1
x: Amount[ug/l]
y: Area

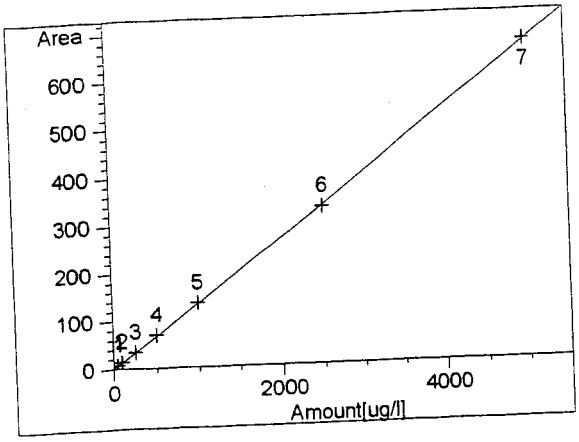


Fluoranthene at exp. RT: 11.543
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.58645
Formula: y = mx + b
m: 4.08100e-2
b: 1.09457e-1
x: Amount[ug/l]
y: Area

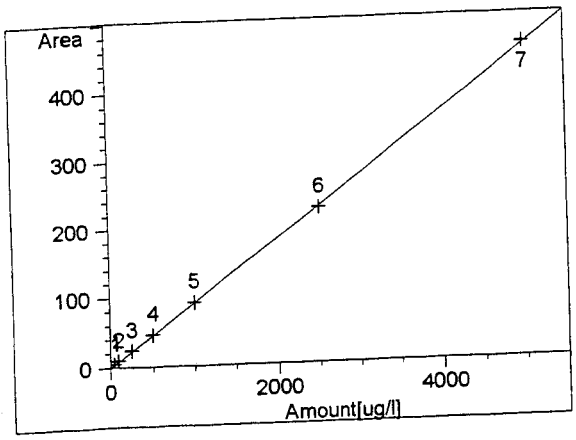


Pyrene at exp. RT: 12.274
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 0.49621
Formula: y = mx + b
m: 3.35757e-2
b: -2.87441e-1
x: Amount[ug/l]
y: Area

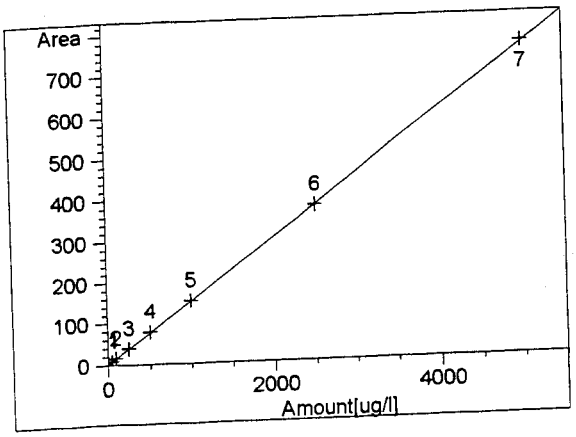
Method G:\HPLC4\METHODS\8310-315.M



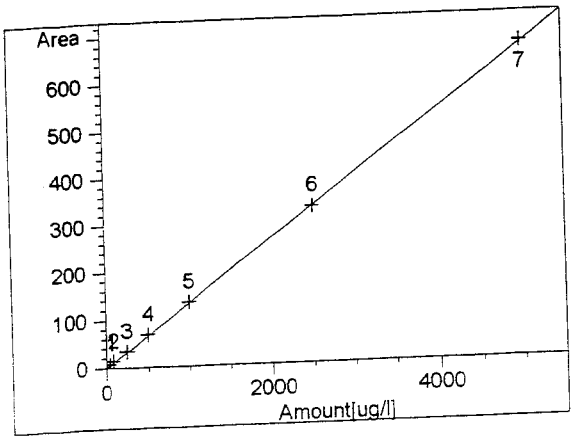
Pyrene at exp. RT: 12.313
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 2.23433
Formula: y = mx + b
m: 1.32777e-1
b: 2.88948e-1
x: Amount[ug/l]
y: Area



Benzo(a)anthracene at exp. RT: 15.125
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 1.46481
Formula: y = mx + b
m: 9.16421e-2
b: -5.64799e-1
x: Amount[ug/l]
y: Area

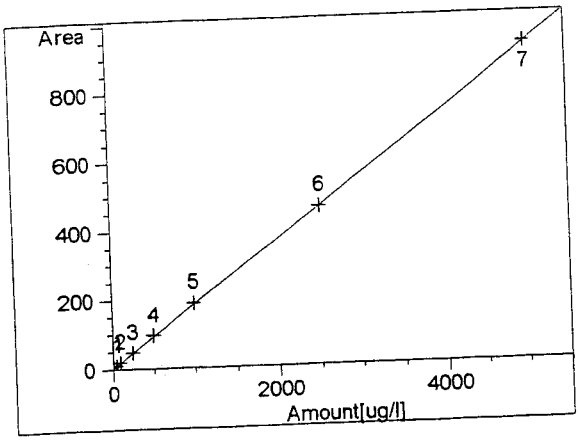


Benzo(a)anthracene at exp. RT: 15.164
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.52788
Formula: y = mx + b
m: 1.51611e-1
b: 2.05410e-1
x: Amount[ug/l]
y: Area

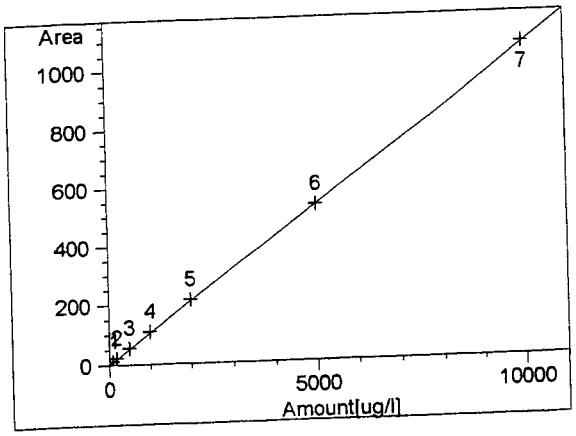


Chrysene at exp. RT: 15.624
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 1.52322
Formula: y = mx + b
m: 1.33357e-1
b: -3.52762e-1
x: Amount[ug/l]
y: Area

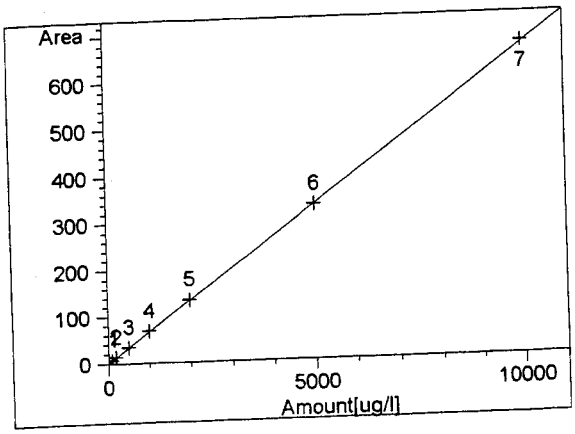
Method G:\HPLC4\METHODS\8310-315.M



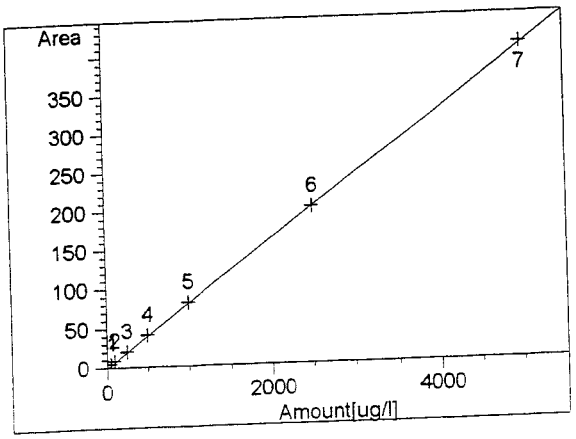
Chrysene at exp. RT: 15.664
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.42864
Formula: y = mx + b
m: 1.84313e-1
b: 9.78301e-1
x: Amount[ug/l]
y: Area



Benzo(b)fluoranthene at exp. RT: 17.842
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 1.79272
Formula: y = mx + b
m: 1.06686e-1
b: -5.73080e-1
x: Amount[ug/l]
y: Area

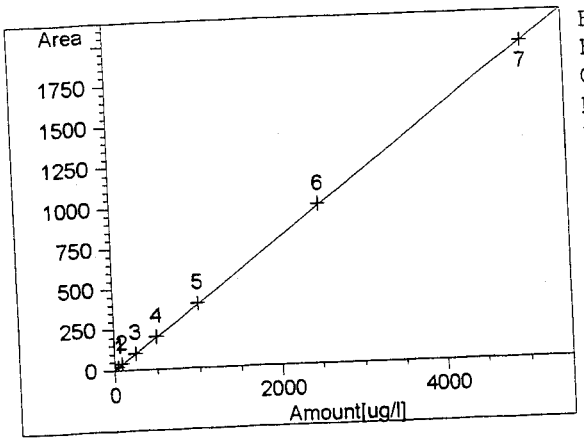


Benzo(b)fluoranthene at exp. RT: 17.883
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.32175
Formula: y = mx + b
m: 6.68690e-2
b: 2.49898e-2
x: Amount[ug/l]
y: Area

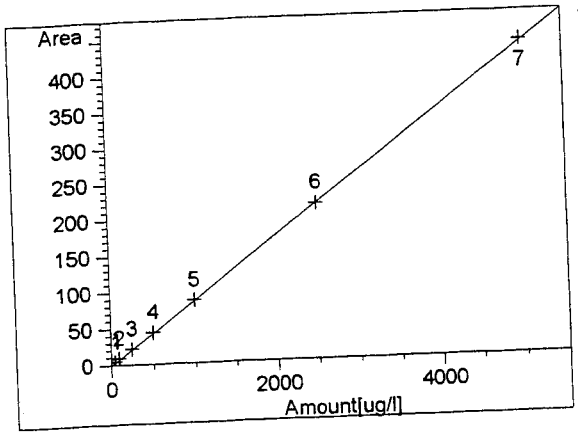


Benzo(k)fluoranthene at exp. RT: 18.796
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.98396
Formula: y = mx + b
m: 8.13261e-2
b: -7.36369e-1
x: Amount[ug/l]
y: Area

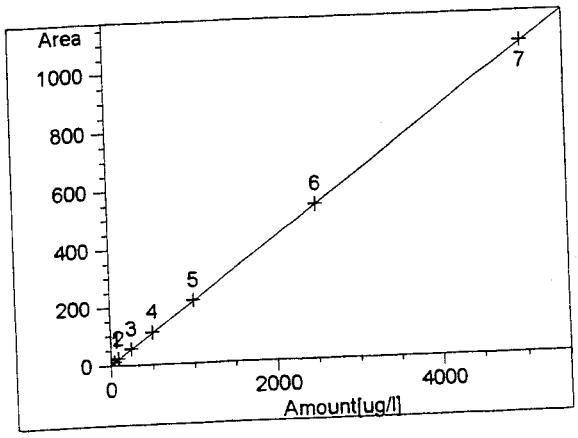
Method G:\HPLC4\METHODS\8310-315.M



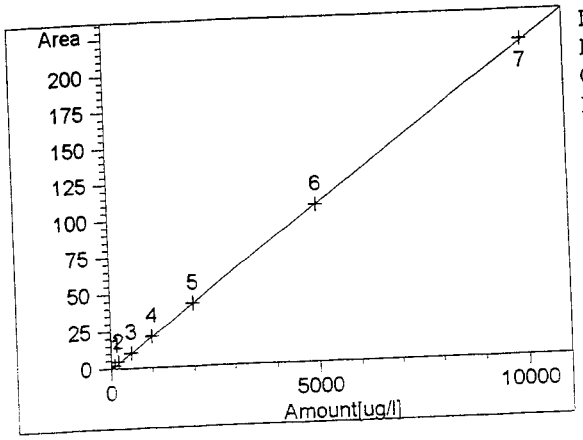
Benzo(k)fluoranthene at exp. RT: 18.837
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 3.29157
Formula: y = mx + b
m: 3.90262e-1
b: 2.80891
x: Amount[ug/l]
y: Area



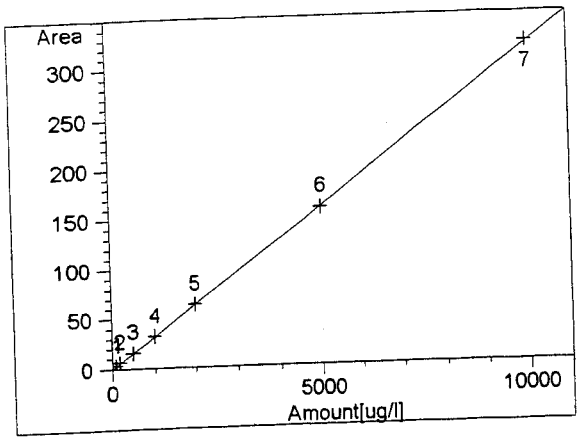
Benzo(a)pyrene at exp. RT: 19.734
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.88457
Formula: y = mx + b
m: 8.70219e-2
b: -7.06704e-1
x: Amount[ug/l]
y: Area



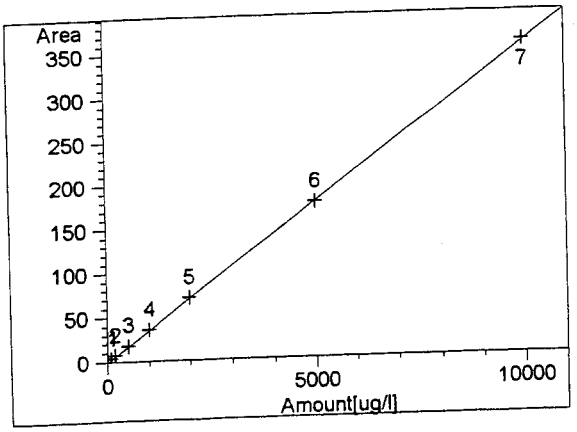
Benzo(a)pyrene at exp. RT: 19.774
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.54630
Formula: y = mx + b
m: 2.14053e-1
b: 8.29784e-1
x: Amount[ug/l]
y: Area



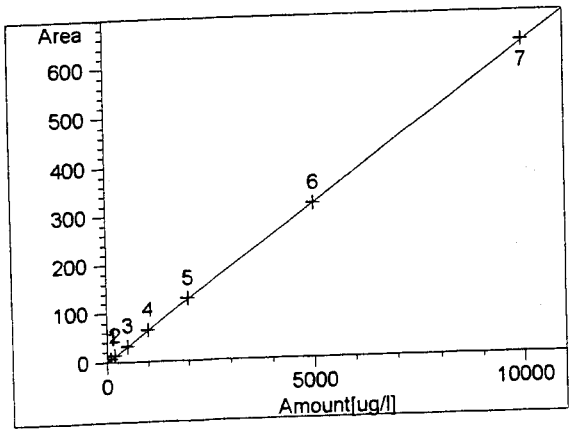
Dibenz(a,h)anthracene at exp. RT: 21.335
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.47152
Formula: y = mx + b
m: 2.15889e-2
b: -6.24820e-1
x: Amount[ug/l]
y: Area



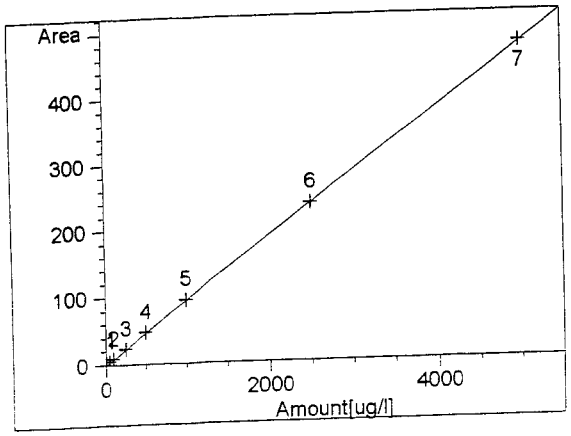
Dibenz(a,h)anthracene at exp. RT: 21.376
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.69795
Formula: y = mx + b
m: 3.19738e-2
b: -4.70523e-1
x: Amount[ug/l]
y: Area



Benzo(g,h,i)perylene at exp. RT: 22.099
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.90912
Formula: y = mx + b
m: 3.57236e-2
b: -6.18946e-1
x: Amount[ug/l]
y: Area

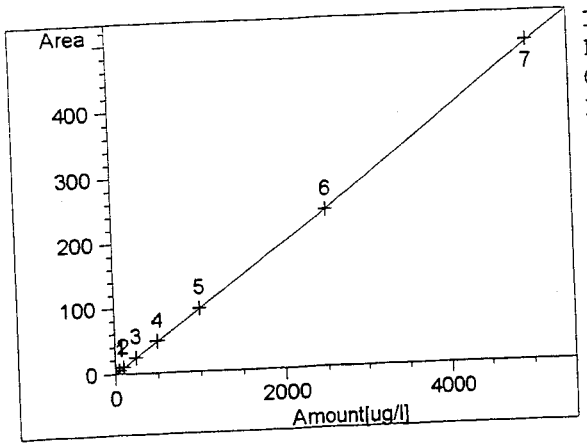


Benzo(g,h,i)perylene at exp. RT: 22.140
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.13249
Formula: y = mx + b
m: 6.38382e-2
b: -5.42335e-1
x: Amount[ug/l]
y: Area



Indeno(1,2,3-cd)pyrene at exp. RT: 22.620
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.59301
Formula: y = mx + b
m: 9.53650e-2
b: -8.30323e-1
x: Amount[ug/l]
y: Area

Method G:\HPLC4\METHODS\8310-315.M



Indeno(1,2,3-cd)pyrene at exp. RT: 22.661
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.87865
Formula: y = mx + b
m: 9.72272e-2
b: -5.98930e-1
x: Amount[ug/l]
y: Area

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CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185463 HPLC Water
EPA 8310

Inst : HPLC04
Calnum : 295454249001 Cal Date: 11-NOV-2005

ICV 295454249015 (31500015 11-NOV-2005) stds: S1859

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1	5000	5429	ug/L	9	15	
Acenaphthylene	1	10000	11450	ug/L	14	15	
Acenaphthene	1	5000	5731	ug/L	15	15	
Fluorene	1	1000	1083	ug/L	8	15	
Phenanthrene	1	500.0	527.1	ug/L	5	15	
Anthracene	1	500.0	541.6	ug/L	8	15	
Fluoranthene	1	1000	1095	ug/L	9	15	
Pyrene	1	500.0	544.7	ug/L	9	15	
Benzo(a)anthracene	1	500.0	539.7	ug/L	8	15	
Chrysene	1	500.0	541.3	ug/L	8	15	
Benzo(b)fluoranthene	1	1000	1079	ug/L	8	15	
Benzo(k)fluoranthene	1	500.0	541.4	ug/L	8	15	
Benzo(a)pyrene	1	500.0	528.7	ug/L	6	15	
Dibenz(a,h)anthracene	1	1000	1083	ug/L	8	15	
Benzo(g,h,i)perylene	1	1000	1068	ug/L	7	15	
Indeno(1,2,3-cd)pyrene	1	500.0	543.1	ug/L	9	15	
Acenaphthylene	2	10000	10910	ug/L	9	15	
Naphthalene	3	5000	5415	ug/L	8	15	
Acenaphthene	3	5000	5652	ug/L	13	15	
Fluorene	3	1000	1080	ug/L	8	15	
Phenanthrene	3	500.0	519.8	ug/L	4	15	
Anthracene	3	500.0	542.4	ug/L	8	15	
Fluoranthene	3	1000	1101	ug/L	10	15	
Pyrene	3	500.0	543.9	ug/L	9	15	
Benzo(a)anthracene	3	500.0	536.6	ug/L	7	15	
Chrysene	3	500.0	537.3	ug/L	7	15	
Benzo(b)fluoranthene	3	1000	1079	ug/L	8	15	
Benzo(k)fluoranthene	3	500.0	544.4	ug/L	9	15	
Benzo(a)pyrene	3	500.0	526.8	ug/L	5	15	
Dibenz(a,h)anthracene	3	1000	1078	ug/L	8	15	
Benzo(g,h,i)perylene	3	1000	1049	ug/L	5	15	
Indeno(1,2,3-cd)pyrene	3	500.0	542.2	ug/L	8	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185463 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: H IDF : 1.0
Seqnum : 296107229018 File : 07400018 Time : 15-MAR-2006 20:43
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S1578

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0136	10000	10500	ug/L	5	15	
Acenaphthylene	1	0.0093	0.0097	20000	20910	ug/L	5	15	
Acenaphthene	1	0.0050	0.0054	10000	10800	ug/L	8	15	
Fluorene	1	0.0629	0.0658	2000	2090	ug/L	5	15	
Phenanthrene	1	0.1797	0.1880	1000	1048	ug/L	5	15	
Anthracene	1	0.4065	0.4390	1000	1082	ug/L	8	15	
Fluoranthene	1	0.0408	0.0427	2000	2082	ug/L	4	15	
Pyrene	1	0.0329	0.0350	1000	1052	ug/L	5	15	
Benzo(a)anthracene	1	0.0901	0.0981	1000	1077	ug/L	8	15	
Chrysene	1	0.1322	0.1421	1000	1068	ug/L	7	15	
Benzo(b)fluoranthene	1	0.1049	0.1126	2000	2116	ug/L	6	15	
Benzo(k)fluoranthene	1	0.0796	0.0867	1000	1075	ug/L	7	15	
Benzo(a)pyrene	1	0.0842	0.0906	1000	1049	ug/L	5	15	
Dibenz(a,h)anthracene	1	0.0205	0.0228	2000	2139	ug/L	7	15	
Benzo(g,h,i)perylene	1	0.0349	0.0371	2000	2093	ug/L	5	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.1008	1000	1066	ug/L	7	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0085	50000	50270	ug/L	1	15	
Acenaphthylene	2	0.0277	0.0293	20000	21000	ug/L	5	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	49870	ug/L	0	15	
Naphthalene	3	0.0118	0.0115	10000	9831	ug/L	-2	15	
Acenaphthene	3	0.0242	0.0239	10000	9943	ug/L	-1	15	
Fluorene	3	0.1330	0.1331	2000	2027	ug/L	1	15	
Phenanthrene	3	0.1408	0.1386	1000	992.5	ug/L	-1	15	
Anthracene	3	0.4129	0.4364	1000	1058	ug/L	6	15	
Fluoranthene	3	0.0409	0.0408	2000	1999	ug/L	0	15	
Pyrene	3	0.1339	0.1322	1000	993.7	ug/L	-1	15	
Benzo(a)anthracene	3	0.1518	0.1553	1000	1023	ug/L	2	15	
Chrysene	3	0.1854	0.1889	1000	1020	ug/L	2	15	
Benzo(b)fluoranthene	3	0.0668	0.0677	2000	2026	ug/L	1	15	
Benzo(k)fluoranthene	3	0.3937	0.4140	1000	1054	ug/L	5	15	
Benzo(a)pyrene	3	0.2148	0.2198	1000	1023	ug/L	2	15	
Dibenz(a,h)anthracene	3	0.0311	0.0326	2000	2055	ug/L	3	15	
Benzo(g,h,i)perylene	3	0.0629	0.0641	2000	2016	ug/L	1	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.1005	1000	1040	ug/L	4	15	
1-Methylnaphthalene (F)	3	0.0131	0.0121	50000	46810	ug/L	-6	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185463 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: M IDF : 1.0
Seqnum : 296107229032 File : 07400032 Time : 16-MAR-2006 04:06
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2255

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0137	5000	5272	ug/L	5	15	
Acenaphthylene	1	0.0093	0.0097	10000	10430	ug/L	4	15	
Acenaphthene	1	0.0050	0.0056	5000	5476	ug/L	10	15	
Fluorene	1	0.0629	0.0661	1000	1048	ug/L	5	15	
Phenanthrene	1	0.1797	0.1876	500.0	522.0	ug/L	4	15	
Anthracene	1	0.4065	0.4440	500.0	545.2	ug/L	9	15	
Fluoranthene	1	0.0408	0.0421	1000	1029	ug/L	3	15	
Pyrene	1	0.0329	0.0348	500.0	527.3	ug/L	5	15	
Benzo(a)anthracene	1	0.0901	0.1002	500.0	552.7	ug/L	11	15	
Chrysene	1	0.1322	0.1406	500.0	529.7	ug/L	6	15	
Benzo(b)fluoranthene	1	0.1049	0.1112	1000	1047	ug/L	5	15	
Benzo(k)fluoranthene	1	0.0796	0.0853	500.0	533.7	ug/L	7	15	
Benzo(a)pyrene	1	0.0842	0.0923	500.0	538.7	ug/L	8	15	
Dibenz(a,h)anthracene	1	0.0205	0.0227	1000	1083	ug/L	8	15	
Benzo(g,h,i)perylene	1	0.0349	0.0372	1000	1060	ug/L	6	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.1061	500.0	565.2	ug/L	13	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0083	50000	49070	ug/L	-2	15	
Acenaphthylene	2	0.0277	0.0295	10000	10580	ug/L	6	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0029	50000	48360	ug/L	-3	15	
Naphthalene	3	0.0118	0.0115	5000	4869	ug/L	-3	15	
Acenaphthene	3	0.0242	0.0242	5000	4992	ug/L	0	15	
Fluorene	3	0.1330	0.1350	1000	1019	ug/L	2	15	
Phenanthrene	3	0.1408	0.1359	500.0	482.2	ug/L	-4	15	
Anthracene	3	0.4129	0.4428	500.0	535.5	ug/L	7	15	
Fluoranthene	3	0.0409	0.0403	1000	984.0	ug/L	-2	15	
Pyrene	3	0.1339	0.1280	500.0	479.9	ug/L	-4	15	
Benzo(a)anthracene	3	0.1518	0.1578	500.0	519.1	ug/L	4	15	
Chrysene	3	0.1854	0.1858	500.0	498.6	ug/L	0	15	
Benzo(b)fluoranthene	3	0.0668	0.0667	1000	997.6	ug/L	0	15	
Benzo(k)fluoranthene	3	0.3937	0.4128	500.0	521.7	ug/L	4	15	
Benzo(a)pyrene	3	0.2148	0.2179	500.0	505.2	ug/L	1	15	
Dibenz(a,h)anthracene	3	0.0311	0.0322	1000	1022	ug/L	2	15	
Benzo(g,h,i)perylene	3	0.0629	0.0609	1000	962.6	ug/L	-4	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.1039	500.0	540.4	ug/L	8	15	
1-Methylnaphthalene (F)	3	0.0131	0.0117	50000	45490	ug/L	-9	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185463 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: M IDF : 1.0
Seqnum : 296108595026 File : 07500026 Time : 16-MAR-2006 23:27
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2255

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0138	5000	5282	ug/L	6	15	
Acenaphthylene	1	0.0093	0.0096	10000	10340	ug/L	3	15	
Acenaphthene	1	0.0050	0.0054	5000	5360	ug/L	7	15	
Fluorene	1	0.0629	0.0651	1000	1032	ug/L	3	15	
Phenanthrene	1	0.1797	0.1863	500.0	518.3	ug/L	4	15	
Anthracene	1	0.4065	0.4478	500.0	549.9	ug/L	10	15	
Fluoranthene	1	0.0408	0.0415	1000	1015	ug/L	2	15	
Pyrene	1	0.0329	0.0349	500.0	527.6	ug/L	6	15	
Benzo(a)anthracene	1	0.0901	0.1011	500.0	557.8	ug/L	12	15	
Chrysene	1	0.1322	0.1408	500.0	530.6	ug/L	6	15	
Benzo(b)fluoranthene	1	0.1049	0.1107	1000	1043	ug/L	4	15	
Benzo(k)fluoranthene	1	0.0796	0.0855	500.0	534.6	ug/L	7	15	
Benzo(a)pyrene	1	0.0842	0.0926	500.0	539.9	ug/L	8	15	
Dibenz(a,h)anthracene	1	0.0205	0.0227	1000	1079	ug/L	8	15	
Benzo(g,h,i)perylene	1	0.0349	0.0375	1000	1066	ug/L	7	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.1062	500.0	565.6	ug/L	13	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0082	50000	48800	ug/L	-2	15	
Acenaphthylene	2	0.0277	0.0293	10000	10500	ug/L	5	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0029	50000	48070	ug/L	-4	15	
Naphthalene	3	0.0118	0.0114	5000	4828	ug/L	-3	15	
Acenaphthene	3	0.0242	0.0241	5000	4966	ug/L	-1	15	
Fluorene	3	0.1330	0.1331	1000	1005	ug/L	0	15	
Phenanthrene	3	0.1408	0.1367	500.0	484.9	ug/L	-3	15	
Anthracene	3	0.4129	0.4432	500.0	536.1	ug/L	7	15	
Fluoranthene	3	0.0409	0.0400	1000	976.7	ug/L	-2	15	
Pyrene	3	0.1339	0.1304	500.0	488.9	ug/L	-2	15	
Benzo(a)anthracene	3	0.1518	0.1587	500.0	521.9	ug/L	4	15	
Chrysene	3	0.1854	0.1850	500.0	496.7	ug/L	-1	15	
Benzo(b)fluoranthene	3	0.0668	0.0664	1000	992.9	ug/L	-1	15	
Benzo(k)fluoranthene	3	0.3937	0.4091	500.0	517.0	ug/L	3	15	
Benzo(a)pyrene	3	0.2148	0.2212	500.0	512.8	ug/L	3	15	
Dibenz(a,h)anthracene	3	0.0311	0.0326	1000	1035	ug/L	4	15	
Benzo(g,h,i)perylene	3	0.0629	0.0625	1000	987.6	ug/L	-1	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.1046	500.0	544.0	ug/L	9	15	
1-Methylnaphthalene (F)	3	0.0131	0.0116	50000	44940	ug/L	-10	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185463 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: L IDF : 1.0
Seqnum : 296108595040 File : 07500040 Time : 17-MAR-2006 06:50
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2256

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0142	2500	2716	ug/L	9	15	
Acenaphthylene	1	0.0093	0.0098	5000	5140	ug/L	3	15	
Acenaphthene	1	0.0050	0.0058	2500	2799	ug/L	12	15	
Fluorene	1	0.0629	0.0666	500.0	527.0	ug/L	5	15	
Phenanthrene	1	0.1797	0.1897	250.0	263.2	ug/L	5	15	
Anthracene	1	0.4065	0.4558	250.0	278.2	ug/L	11	15	
Fluoranthene	1	0.0408	0.0428	500.0	525.1	ug/L	5	15	
Pyrene	1	0.0329	0.0360	250.0	276.6	ug/L	11	15	
Benzo(a)anthracene	1	0.0901	0.1031	250.0	287.5	ug/L	15	15	
Chrysene	1	0.1322	0.1426	250.0	270.1	ug/L	8	15	
Benzo(b)fluoranthene	1	0.1049	0.1129	500.0	534.6	ug/L	7	15	
Benzo(k)fluoranthene	1	0.0796	0.0865	250.0	274.9	ug/L	10	15	
Benzo(a)pyrene	1	0.0842	0.0927	250.0	274.6	ug/L	10	15	
Dibenz(a,h)anthracene	1	0.0205	0.0222	500.0	542.4	ug/L	8	15	
Benzo(g,h,i)perylene	1	0.0349	0.0371	500.0	536.5	ug/L	7	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.1055	250.0	285.3	ug/L	14	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0084	50000	49800	ug/L	0	15	
Acenaphthylene	2	0.0277	0.0297	5000	5330	ug/L	7	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	49090	ug/L	-2	15	
Naphthalene	3	0.0118	0.0115	2500	2389	ug/L	-4	15	
Acenaphthene	3	0.0242	0.0246	2500	2505	ug/L	0	15	
Fluorene	3	0.1330	0.1373	500.0	509.4	ug/L	2	15	
Phenanthrene	3	0.1408	0.1372	250.0	239.1	ug/L	-4	15	
Anthracene	3	0.4129	0.4524	250.0	272.3	ug/L	9	15	
Fluoranthene	3	0.0409	0.0404	500.0	492.4	ug/L	-2	15	
Pyrene	3	0.1339	0.1278	250.0	238.4	ug/L	-5	15	
Benzo(a)anthracene	3	0.1518	0.1610	250.0	264.2	ug/L	6	15	
Chrysene	3	0.1854	0.1877	250.0	249.3	ug/L	0	15	
Benzo(b)fluoranthene	3	0.0668	0.0673	500.0	503.0	ug/L	1	15	
Benzo(k)fluoranthene	3	0.3937	0.4165	250.0	259.6	ug/L	4	15	
Benzo(a)pyrene	3	0.2148	0.2220	250.0	255.4	ug/L	2	15	
Dibenz(a,h)anthracene	3	0.0311	0.0321	500.0	516.6	ug/L	3	15	
Benzo(g,h,i)perylene	3	0.0629	0.0614	500.0	489.7	ug/L	-2	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.1045	250.0	274.9	ug/L	10	15	
1-Methylnaphthalene (F)	3	0.0131	0.0118	50000	45880	ug/L	-8	15	

SEQUENCE SUMMARY FOR 185463 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 295454249 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 11-NOV-2005
Analytical Method: EPA 8310 SOP Version: 8310_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	31500001	X	PRIMER - 315			11-NOV-2005 10:49	1.0						
002	31500002	X	PRIMER			11-NOV-2005 11:20	1.0						
003	31500003	X	IB - 315			11-NOV-2005 11:52	1.0						
004	31500004	X	IB			11-NOV-2005 12:24	1.0						
005	31500005	X	IB			11-NOV-2005 12:55	1.0						
006	31500006	ICAL				11-NOV-2005 13:27	1.0					1	
007	31500007	ICAL				11-NOV-2005 13:58	1.0					2	
008	31500008	ICAL				11-NOV-2005 14:30	1.0					3	
009	31500009	ICAL				11-NOV-2005 15:02	1.0					4	
010	31500010	ICAL				11-NOV-2005 15:33	1.0					5	
011	31500011	ICAL				11-NOV-2005 16:05	1.0					6	
012	31500012	ICAL				11-NOV-2005 16:36	1.0					7	
013	31500013	X	IB			11-NOV-2005 17:08	1.0						
014	31500014	X	IB			11-NOV-2005 17:40	1.0						
015	31500015	ICV				11-NOV-2005 18:11	1.0		10			8	167
016	31500016	X	ICV			11-NOV-2005 18:43	1.0					8	
017	31500017	X	IB			11-NOV-2005 19:14	1.0						

Stds used: 1=S1620 2=S1619 3=S1618 4=S1617 5=S1616 6=S1615 7=S1614 8=S1859

SEQUENCE SUMMARY FOR 185463 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296107229 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 15-MAR-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	07400001	X	IB - 074			15-MAR-2006 11:09	1.0						
002	07400002	X,CCV	L			15-MAR-2006 11:41	1.0	1.0			10	1	
003	07400003	CCV	L			15-MAR-2006 12:13	1.0	1.0			10	1	
004	07400004	X	IB			15-MAR-2006 12:45	1.0						
005	07400005	LCS	QC331584	111330	Soil	15-MAR-2006 13:16	1.0	0.06711	2		10	spk	2:FL=11482.9
006	07400006	BLANK	QC331583	111330	Soil	15-MAR-2006 13:48	1.0	0.06645	2		10		
007	07400007	X,SAMPL	185519-013	111330	Soil	15-MAR-2006 14:19	1.0	0.06623	2		10	spk	2:FL=23481.5
008	07400008	SAMPLE	185519-014	111330	Soil	15-MAR-2006 14:51	1.0	0.06601			10	spk	
009	07400009	SAMPLE	185519-015	111330	Soil	15-MAR-2006 15:33	1.0	0.06618	1		10	spk	1:PYR=9383.25
010	07400010	MSS	185519-016	111330	Soil	15-MAR-2006 16:18	1.0	0.06766	2		10	spk	
011	07400011	MS	QC331585	111330	Soil	15-MAR-2006 17:02	1.0	0.06633	13	14	10		13:FLA=19935.5
012	07400012	MSD	QC331586	111330	Soil	15-MAR-2006 17:34	1.0	0.06734	1	25	10		1:PYR=6526.53
013	07400013	X	IB			15-MAR-2006 18:05	1.0						
014	07400014	X	IB			15-MAR-2006 18:37	1.0						
015	07400015	X	IB			15-MAR-2006 19:09	1.0						
016	07400016	LCS	QC331584	111330	Soil	15-MAR-2006 19:40	1.0	0.06711	2		10	spk	2:FL=11512.0
017	07400017	X	IB			15-MAR-2006 20:12	1.0						
018	07400018	CCV	H			15-MAR-2006 20:43	1.0	1.0			10	2	
019	07400019	X	CCV			15-MAR-2006 21:15	1.0					3	
020	07400020	X	IB			15-MAR-2006 21:47	1.0						
021	07400021	LCS	QC331306	111260	Water	15-MAR-2006 22:18	1.0	0.002			10		
022	07400022	BLANK	QC331305	111260	Water	15-MAR-2006 22:50	1.0	0.002			10		
023	07400023	SAMPLE	185414-001	111260	Water	15-MAR-2006 23:22	1.0	0.001887			10		
024	07400024	SAMPLE	185414-002	111260	Water	15-MAR-2006 23:53	1.0	0.001887			10		
025	07400025	SAMPLE	185408-001	111260	Water	16-MAR-2006 00:25	1.0	0.001887			10		
026	07400026	SAMPLE	185408-003	111260	Water	16-MAR-2006 00:56	1.0	0.001887			10		
027	07400027	MSS	185408-008	111260	Water	16-MAR-2006 01:28	1.0	0.001961	2		10		
028	07400028	SAMPLE	185408-009	111260	Water	16-MAR-2006 02:00	1.0	0.001942			10		
029	07400029	MS	QC331307	111260	Water	16-MAR-2006 02:31	1.0	0.001961		11	10		
030	07400030	MSD	QC331308	111260	Water	16-MAR-2006 03:03	1.0	0.001961		10	10		

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Stds used: 1=S2256 2=S1578 3=S2255
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 185463 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296107229 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 15-MAR-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
031	07400031	X	IB			16-MAR-2006 03:34	1.0					
032	07400032	CCV	M			16-MAR-2006 04:06	1.0	1.0		10	3	
033	07400033	X	CCV			16-MAR-2006 04:38	1.0				1	
034	07400034	X	IB			16-MAR-2006 05:09	1.0					

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Stds used: 1=S2256 2=S1578 3=S2255
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 185463 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296108595 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 16-MAR-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	07500001	X	IB - 075			16-MAR-2006 09:55	1.0						
002	07500002	CCV	L			16-MAR-2006 10:26	1.0	1.0			10	1	
003	07500003	X	CCV			16-MAR-2006 10:58	1.0					1	
004	07500004	X	IB			16-MAR-2006 11:30	1.0						
005	07500005	LCS	QC331690	111350	Soil	16-MAR-2006 12:01	1.0	0.06734			10		
006	07500006	BLANK	QC331689	111350	Soil	16-MAR-2006 12:33	1.0	0.06623	2		10		
007	07500007	MSS	185519-013	111350	Soil	16-MAR-2006 13:04	1.0	0.06564	2		10		
008	07500008	MS	QC331691	111350	Soil	16-MAR-2006 13:36	1.0	0.06609			10		
009	07500009	MSD	QC331692	111350	Soil	16-MAR-2006 14:08	1.0	0.06594			10		
010	07500010	X	IB			16-MAR-2006 14:47	1.0						
011	07500011	CCV	H			16-MAR-2006 15:33	1.0	1.0			10	2	
012	07500012	X	CCV			16-MAR-2006 16:05	1.0					2	
013	07500013	X	IB			16-MAR-2006 16:36	1.0						
014	07500014	X	IB			16-MAR-2006 17:08	1.0						
015	07500015	SAMPLE	185414-003	111260	Water	16-MAR-2006 17:39	1.0	0.001905			10		170
016	07500016	SAMPLE	185414-004	111260	Water	16-MAR-2006 18:11	1.0	0.001905			10		
017	07500017	SAMPLE	185414-005	111260	Water	16-MAR-2006 18:43	1.0	0.001887			10		
018	07500018	SAMPLE	185414-006	111260	Water	16-MAR-2006 19:14	1.0	0.001905			10		
019	07500019	SAMPLE	185414-007	111260	Water	16-MAR-2006 19:46	1.0	0.001887			10		
020	07500020	SAMPLE	185414-008	111260	Water	16-MAR-2006 20:18	1.0	0.001905			10		
021	07500021	SAMPLE	185414-009	111260	Water	16-MAR-2006 20:49	1.0	0.001905			10		
022	07500022	SAMPLE	185414-010	111260	Water	16-MAR-2006 21:21	1.0	0.001905			10		
023	07500023	SAMPLE	185414-011	111260	Water	16-MAR-2006 21:52	1.0	0.001905		3	10	2:MTNPH2=57321.3	
024	07500024	SAMPLE	185414-012	111260	Water	16-MAR-2006 22:24	1.0	0.001905			10		
025	07500025	X	IB			16-MAR-2006 22:56	1.0						
026	07500026	CCV	M			16-MAR-2006 23:27	1.0	1.0			10	3	
027	07500027	X	CCV			16-MAR-2006 23:59	1.0					3	
028	07500028	X	IB			17-MAR-2006 00:31	1.0						
029	07500029	SAMPLE	185414-013	111260	Water	17-MAR-2006 01:02	1.0	0.001887			10		
030	07500030	SAMPLE	185463-002	111260	Water	17-MAR-2006 01:34	1.0	0.001905			10		
031	07500031	LCS	QC331483	111301	Water	17-MAR-2006 02:05	1.0						

Stds used: 1=S2256 2=S1578 3=S2255

SEQUENCE SUMMARY FOR 185463 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296108595 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 16-MAR-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
032	07500032	BLANK	QC331482	111301	Water	17-MAR-2006 02:37	1.0				
033	07500033	SAMPLE	185457-001	111301	Water	17-MAR-2006 03:09	1.0				
034	07500034	SAMPLE	185457-002	111301	Water	17-MAR-2006 03:40	1.0				
035	07500035	MSS	185457-003	111301	Water	17-MAR-2006 04:12	1.0				
036	07500036	SAMPLE	185457-004	111301	Water	17-MAR-2006 04:43	1.0				
037	07500037	MS	QC331484	111301	Water	17-MAR-2006 05:15	1.0				
038	07500038	MSD	QC331485	111301	Water	17-MAR-2006 05:47	1.0				
039	07500039	X	IB			17-MAR-2006 06:18	1.0				
040	07500040	CCV	L			17-MAR-2006 06:50	1.0	1.0	10	1	
041	07500041	X	CCV			17-MAR-2006 07:22	1.0			1	
042	07500042	X	IB			17-MAR-2006 07:53	1.0				

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Stds used: 1=S2256 2=S1578 3=S2255

REPORTING SUMMARY FOR 185463 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185463-002	Naphthalene	HPLC04	1	03/17/06 01:34
185463-002	Acenaphthylene	HPLC04	1	03/17/06 01:34
185463-002	Acenaphthene	HPLC04	1	03/17/06 01:34
185463-002	Fluorene	HPLC04	1	03/17/06 01:34
185463-002	Phenanthrene	HPLC04	3	03/17/06 01:34
185463-002	Anthracene	HPLC04	3	03/17/06 01:34
185463-002	Fluoranthene	HPLC04	3	03/17/06 01:34
185463-002	Pyrene	HPLC04	3	03/17/06 01:34
185463-002	Benzo(a)anthracene	HPLC04	3	03/17/06 01:34
185463-002	Chrysene	HPLC04	3	03/17/06 01:34
185463-002	Benzo(b)fluoranthene	HPLC04	3	03/17/06 01:34
185463-002	Benzo(k)fluoranthene	HPLC04	3	03/17/06 01:34
185463-002	Benzo(a)pyrene	HPLC04	3	03/17/06 01:34
185463-002	Dibenz(a,h)anthracene	HPLC04	3	03/17/06 01:34
185463-002	Benzo(g,h,i)perylene	HPLC04	3	03/17/06 01:34
185463-002	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/17/06 01:34
185463-002	1-Methylnaphthalene (UV)	HPLC04	1	03/17/06 01:34
185463-002	1-Methylnaphthalene (F)	HPLC04	3	03/17/06 01:34
QC331305	Naphthalene	HPLC04	1	03/15/06 22:50
QC331305	Acenaphthylene	HPLC04	1	03/15/06 22:50
QC331305	Acenaphthene	HPLC04	1	03/15/06 22:50
QC331305	Fluorene	HPLC04	1	03/15/06 22:50
QC331305	Phenanthrene	HPLC04	3	03/15/06 22:50
QC331305	Anthracene	HPLC04	3	03/15/06 22:50
QC331305	Fluoranthene	HPLC04	3	03/15/06 22:50
QC331305	Pyrene	HPLC04	3	03/15/06 22:50
QC331305	Benzo(a)anthracene	HPLC04	3	03/15/06 22:50
QC331305	Chrysene	HPLC04	3	03/15/06 22:50
QC331305	Benzo(b)fluoranthene	HPLC04	3	03/15/06 22:50
QC331305	Benzo(k)fluoranthene	HPLC04	3	03/15/06 22:50
QC331305	Benzo(a)pyrene	HPLC04	3	03/15/06 22:50
QC331305	Dibenz(a,h)anthracene	HPLC04	3	03/15/06 22:50
QC331305	Benzo(g,h,i)perylene	HPLC04	3	03/15/06 22:50
QC331305	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/15/06 22:50
QC331305	1-Methylnaphthalene (UV)	HPLC04	1	03/15/06 22:50
QC331305	1-Methylnaphthalene (F)	HPLC04	3	03/15/06 22:50
QC331306	Naphthalene	HPLC04	1	03/15/06 22:18
QC331306	Fluorene	HPLC04	1	03/15/06 22:18
QC331306	Pyrene	HPLC04	3	03/15/06 22:18
QC331306	Benzo(a)pyrene	HPLC04	3	03/15/06 22:18
QC331306	1-Methylnaphthalene (UV)	HPLC04	1	03/15/06 22:18
QC331306	1-Methylnaphthalene (F)	HPLC04	3	03/15/06 22:18
QC331307	Naphthalene	HPLC04	1	03/16/06 02:31
QC331307	Fluorene	HPLC04	1	03/16/06 02:31
QC331307	Pyrene	HPLC04	3	03/16/06 02:31
QC331307	Benzo(a)pyrene	HPLC04	3	03/16/06 02:31
QC331307	1-Methylnaphthalene (UV)	HPLC04	1	03/16/06 02:31
QC331307	1-Methylnaphthalene (F)	HPLC04	3	03/16/06 02:31
QC331308	Naphthalene	HPLC04	1	03/16/06 03:03
QC331308	Fluorene	HPLC04	1	03/16/06 03:03

REPORTING SUMMARY FOR 185463 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC331308	Pyrene	HPLC04	3	03/16/06 03:03
QC331308	Benzo(a)pyrene	HPLC04	3	03/16/06 03:03
QC331308	1-Methylnaphthalene (UV)	HPLC04	1	03/16/06 03:03
QC331308	1-Methylnaphthalene (F)	HPLC04	3	03/16/06 03:03

Curtis & Tompkins Laboratories **Sample Preparation Summary** **14-MAR-2006 20:23**

Batch Number : 111260
Date Extracted: 13-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : 8310
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2841C
Spike #2 ID : S2884A
Spike #3 ID :
SOP Version : 8310w_rv6

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185408-001			Treadwell & Rollo	Water	1060	mL	2	0.001887	1	5	.1	0		8310		
185408-003			Treadwell & Rollo	Water	1060	mL	2	0.001887	1	5	.1	0		8310		
185408-008			Treadwell & Rollo	Water	1020	mL	2	0.001961	1	5	.1	0		8310		MSS
185408-009			Treadwell & Rollo	Water	1030	mL	2	0.001942	1	5	.1	0		8310		
185414-001			Acton Mickelson Environmental	Water	1060	mL	2	0.001887	1	5	.1	0		8310		
185414-002			Acton Mickelson Environmental	Water	1060	mL	2	0.001887	1	5	.1	0		8310		
185414-003			Acton Mickelson Environmental	Water	1050	mL	2	0.001905	1	5	.1	0		8310		
185414-004			Acton Mickelson Environmental	Water	1050	mL	2	0.001905	1	5	.1	0		8310		
185414-005			Acton Mickelson Environmental	Water	1060	mL	2	0.001887	1	5	.1	0		8310		
185414-006			Acton Mickelson Environmental	Water	1050	mL	2	0.001905	1	5	.1	0		8310		
185414-007			Acton Mickelson Environmental	Water	1060	mL	2	0.001887	1	5	.1	0		8310		
185414-008			Acton Mickelson Environmental	Water	1050	mL	2	0.001905	1	5	.1	0		8310		
185414-009			Acton Mickelson Environmental	Water	1050	mL	2	0.001905	1	5	.1	0		8310		
185414-010			Acton Mickelson Environmental	Water	1050	mL	2	0.001905	1	5	.1	0		8310		
185414-011			Acton Mickelson Environmental	Water	1050	mL	2	0.001905	1	5	.1	0		8310		
185414-012			Acton Mickelson Environmental	Water	1050	mL	2	0.001905	1	5	.1	0		8310		
185414-013			Acton Mickelson Environmental	Water	1060	mL	2	0.001887	1	5	.1	0		8310		
185463-002			Treadwell & Rollo	Water	1050	mL	2	0.001905	1	5	.1	0		8310		
QC331305	BLANK			Water	1000	mL	2	0.002000	1		.1	0		8310		
QC331306	LCS			Water	1000	mL	2	0.002000	1		.1	1		8310		
QC331307	MS	of 185408-008		Water	1020	mL	2	0.001961	1	5	.1	1		8310		
QC331308	MSD	of 185408-008		Water	1020	mL	2	0.001961	1	5	.1	1		8310		

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Prep Chemist: Jessie O'Brien Mee Reviewed By: 03/15/06 Date:

Relinquished By: Received By: Date: 15MAR2006

Curtis & Tompkins, Ltd

8310 WATER PREP LOG

BK2190

LIMS Batch No: 111260
LIMS Analysis: 8310
Extracted by: JOM
Date Extracted: 13 Mar 06

Extraction Method:
☐ EPA 3510c sep. funnel
☒ EPA 3520c cont. L/L
☐ _____

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Cleanup Method (if needed):
☐ EPA 3640a GPC
☐ EPA 3630c Silica Gel

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185408-001 M	1060	5	2.0		
03 M	1060				
08 AI	1020				MSS
09 P	1030				
185414-001 L	1060				
02 H	1060				
03 H	1050				
04 H	1050				
05 J	1060				*
06 K	1050				
07 L	1060				
08 H	1050				
09 H					
10 I					
11 J					
12 L					
13 H	1060				
185463-002 E	1050				
MB QC331305	1000	NA			
LCS 06	1000				
MS 07	1020	5			185408-008 AJ
MSD 08	1020	5			AK
					KMH 3/14/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.1 mL of surrogate solution was added to all samples	S2841C / H*	JOM 3/13/06
1.0 mL of matrix spiking solution was added to all spikes	S2884A	
☒ Samples continuously extracted with about 450 mL of CH_2Cl_2	FM46M14	
Extraction Start Time:	1410	
Extraction End Time:	0830	SHO 3/14/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	N/A	KMH 3/14/06
Extracts filtered through baked, CH2Cl2-rinsed ~~powdered~~ granular Na2SO4	FM45118532	
Exchanged 2x with Acetonitrile	FM45216	
Concentrated: ☒ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Silica Gel	N/A	
Extracts filtered with 0.45 um PTFE syringe filter	Whatman L227	

Jessica Mee 3/13/06
Extraction Chemist Date

Contined from Page 175
Continued on Page —

03/15/06
Reviewed by Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8310 Water 3520C
As of 04/29/06

Analyte	Units	HPLC02 1	HPLC02 2	HPLC02 3	HPLC04 1	HPLC04 2	HPLC04 3
Naphthalene	ug/L	0.16		0.069	0.097		0.10
Acenaphthylene	ug/L	0.37	0.29		0.24	0.16	
2-Methylnaphthalene	ug/L				0.072		0.10
Acenaphthene	ug/L	0.36		0.098	0.33		0.085
Fluorene	ug/L	0.051		0.054	0.028		0.017
Phenanthrene	ug/L	0.030		0.0086	0.0082		0.0078
Anthracene	ug/L	0.021		0.0077	0.024		0.023
Fluoranthene	ug/L	0.13		0.011	0.042		0.013
Pyrene	ug/L	0.066		0.0048	0.036		0.010
Benzo(a)anthracene	ug/L	0.044		0.0046	0.022		0.013
Chrysene	ug/L	0.036		0.0059	0.021		0.0096
Benzo(b)fluoranthene	ug/L	0.032		0.0081	0.015		0.013
Benzo(k)fluoranthene	ug/L	0.037		0.0044	0.013		0.0080
Benzo(a)pyrene	ug/L	0.055		0.0045	0.017		0.025
Dibenz(a,h)anthracene	ug/L	0.12		0.026	0.037		0.025
Benzo(g,h,i)perylene	ug/L	0.066		0.014	0.047		0.017
Indeno(1,2,3-cd)pyrene	ug/L	0.065		0.011	0.013		0.0096
1-Methylnaphthalene (UV)	ug/L	1.2	1.9		9.0	9.1	
1-Methylnaphthalene (F)	ug/L			0.72			9.8

METALS

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	NKGW03	Batch#:	111388
Lab ID:	185463-001	Sampled:	03/10/06
Matrix:	Filtrate	Received:	03/10/06
Units:	ug/L	Prepared:	03/16/06
Diln Fac:	1.000	Analyzed:	03/25/06

Analyte	Result	RL
Aluminum	ND	100
Antimony	ND	1.0
Arsenic	ND	5.0
Barium	27	10
Beryllium	ND	2.0
Cadmium	ND	1.0
Calcium	6,400	500
Chromium	ND	10
Cobalt	ND	10
Copper	ND	1.0
Iron	ND	100
Lead	ND	3.0
Magnesium	9,300	500
Manganese	ND	10
Nickel	ND	20
Potassium	1,000	500
Selenium	ND	5.0
Silver	ND	1.0
Sodium	12,000	500
Thallium	ND	1.0
Vanadium	ND	10
Zinc	ND	20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331831	Batch#:	111388
Matrix:	Filtrate	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/24/06

Analyte	Result	RL
Aluminum	ND	100
Antimony	ND	1.0
Arsenic	ND	5.0
Barium	ND	10
Beryllium	ND	2.0
Cadmium	ND	1.0
Calcium	ND	500
Chromium	ND	10
Cobalt	ND	10
Copper	ND	1.0
Iron	ND	100
Lead	ND	3.0
Magnesium	ND	500
Manganese	ND	10
Nickel	ND	20
Potassium	ND	500
Selenium	ND	5.0
Silver	ND	1.0
Sodium	ND	500
Thallium	ND	1.0
Vanadium	ND	10
Zinc	ND	20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Mercury by Cold Vapor AA

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Sampled:	03/10/06
Field ID:	NKGW03	Received:	03/10/06
Units:	ug/L	Prepared:	03/14/06
Diln Fac:	1.000	Analyzed:	03/14/06
Batch#:	111271		

Type	Lab ID	Matrix	Result	RL
SAMPLE	185463-001	Filtrate	ND	0.20
BLANK	QC331350	Water	ND	0.20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Matrix:	Filtrate	Batch#:	111388
Units:	ug/L	Prepared:	03/16/06
Diln Fac:	1.000	Analyzed:	03/24/06

Type: BS Lab ID: QC331832

Analyte	Spiked	Result	%REC	Limits
Aluminum	100.0	99.08	99	80-120
Antimony	100.0	103.2	103	80-120
Arsenic	100.0	102.0	102	80-120
Barium	100.0	95.63	96	80-120
Beryllium	100.0	96.79	97	80-120
Cadmium	100.0	98.33	98	80-120
Calcium	10,000	10,310	103	80-120
Chromium	100.0	99.03	99	80-120
Cobalt	100.0	97.84	98	80-120
Copper	100.0	101.1	101	80-120
Iron	10,000	10,020	100	80-120
Lead	100.0	99.49	99	80-120
Magnesium	10,000	10,210	102	80-120
Manganese	100.0	96.46	96	80-120
Nickel	100.0	99.79	100	80-120
Potassium	10,000	10,410	104	80-120
Selenium	100.0	92.80	93	80-120
Silver	100.0	102.2	102	80-120
Sodium	10,000	10,040	100	80-120
Thallium	100.0	93.11	93	80-120
Vanadium	100.0	97.70	98	80-120
Zinc	100.0	97.64	98	80-120

Type: BSD Lab ID: QC331833

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	100.0	99.94	100	80-120	1	20
Antimony	100.0	104.7	105	80-120	1	20
Arsenic	100.0	102.5	103	80-120	0	20
Barium	100.0	96.60	97	80-120	1	20
Beryllium	100.0	98.58	99	80-120	2	20
Cadmium	100.0	98.35	98	80-120	0	20
Calcium	10,000	10,220	102	80-120	1	20
Chromium	100.0	99.50	100	80-120	0	20
Cobalt	100.0	98.07	98	80-120	0	20
Copper	100.0	101.8	102	80-120	1	20
Iron	10,000	10,080	101	80-120	1	20
Lead	100.0	100.7	101	80-120	1	20
Magnesium	10,000	10,270	103	80-120	1	20
Manganese	100.0	96.51	97	80-120	0	20
Nickel	100.0	101.1	101	80-120	1	20
Potassium	10,000	10,360	104	80-120	0	20
Selenium	100.0	93.27	93	80-120	1	20
Silver	100.0	103.4	103	80-120	1	20
Sodium	10,000	9,984	100	80-120	1	20
Thallium	100.0	94.93	95	80-120	2	20
Vanadium	100.0	96.98	97	80-120	1	20
Zinc	100.0	98.26	98	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Mercury by Cold Vapor AA

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	111271
Field ID:	DAESP03	Sampled:	03/08/06
MSS Lab ID:	185408-008	Received:	03/09/06
Matrix:	Water	Prepared:	03/14/06
Units:	ug/L	Analyzed:	03/14/06
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC331352		5.000	5.180	104	80-120		
BSD	QC331353		5.000	5.160	103	80-120	0	20
MS	QC331354	<0.07957	5.000	5.260	105	75-125		
MSD	QC331355		5.000	5.070	101	75-125	4	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	BB3SW104	Sampled:	03/08/06
MSS Lab ID:	185408-010	Received:	03/09/06
Matrix:	Filtrate	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/24/06
Batch#:	111388		

Type: MS Lab ID: QC331834

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln Fac
Aluminum	24.58	100.0	119.0	94	75-125	1.000
Antimony	0.4902	100.0	106.6	106	75-125	1.000
Arsenic	0.8054	100.0	100.8	100	75-125	1.000
Barium	18.10	100.0	119.8	102	75-125	1.000
Beryllium	0.07248	100.0	97.60	98	75-125	1.000
Cadmium	<0.1409	100.0	96.32	96	75-125	1.000
Calcium	17,700	10,000	27,580	99	75-125	20.00
Chromium	8.451	100.0	108.5	100	75-125	1.000
Cobalt	0.3294	100.0	96.24	96	75-125	1.000
Copper	2.455	100.0	99.80	97	75-125	1.000
Iron	86.87	10,000	10,210	101	75-125	1.000
Lead	<0.2399	100.0	104.2	104	75-125	1.000
Magnesium	31,550	10,000	43,600	121	75-125	20.00
Manganese	9.431	100.0	107.5	98	75-125	1.000
Nickel	9.268	100.0	107.0	98	75-125	1.000
Potassium	1,191	10,000	11,190	100	75-125	1.000
Selenium	0.3589	100.0	89.40	89	75-125	1.000
Silver	0.05991	100.0	100.2	100	75-125	1.000
Sodium	43,920	10,000	55,090	112 NM	75-125	20.00
Thallium	0.9831	100.0	96.14	95	75-125	1.000
Vanadium	2.263	100.0	101.5	99	75-125	1.000
Zinc	24.34	100.0	115.6	91	75-125	20.00

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	BB3SW104	Sampled:	03/08/06
MSS Lab ID:	185408-010	Received:	03/09/06
Matrix:	Filtrate	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/24/06
Batch#:	111388		

Type: MSD Lab ID: QC331835

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
Aluminum	100.0	116.5	92	75-125	2	20	1.000
Antimony	100.0	107.0	107	75-125	0	20	1.000
Arsenic	100.0	101.0	100	75-125	0	20	1.000
Barium	100.0	120.2	102	75-125	0	20	1.000
Beryllium	100.0	97.36	97	75-125	0	20	1.000
Cadmium	100.0	98.29	98	75-125	2	20	1.000
Calcium	10,000	27,290	96	75-125	1	20	20.00
Chromium	100.0	110.1	102	75-125	1	20	1.000
Cobalt	100.0	97.79	97	75-125	2	20	1.000
Copper	100.0	100.3	98	75-125	0	20	1.000
Iron	10,000	10,350	103	75-125	1	20	1.000
Lead	100.0	104.3	104	75-125	0	20	1.000
Magnesium	10,000	43,800	123	75-125	0	20	20.00
Manganese	100.0	108.8	99	75-125	1	20	1.000
Nickel	100.0	106.9	98	75-125	0	20	1.000
Potassium	10,000	11,240	100	75-125	0	20	1.000
Selenium	100.0	90.07	90	75-125	1	20	1.000
Silver	100.0	101.7	102	75-125	1	20	1.000
Sodium	10,000	55,160	112 NM	75-125	0	20	20.00
Thallium	100.0	96.99	96	75-125	1	20	1.000
Vanadium	100.0	102.4	100	75-125	1	20	1.000
Zinc	100.0	110.5	86	75-125	5	20	20.00

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DAESP03	Sampled:	03/08/06
MSS Lab ID:	185408-008	Received:	03/09/06
Matrix:	Filtrate	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/24/06
Batch#:	111388		

Type: MS Lab ID: QC331836

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln Fac
Aluminum	125.1	100.0	244.6	120	75-125	20.00
Antimony	0.3902	100.0	109.0	109	75-125	1.000
Arsenic	<0.6516	100.0	102.4	102	75-125	1.000
Barium	34.92	100.0	139.7	105	75-125	1.000
Beryllium	<0.05514	100.0	98.01	98	75-125	1.000
Cadmium	<0.1409	100.0	99.59	100	75-125	1.000
Calcium	9,570	10,000	19,220	97	75-125	20.00
Chromium	7.416	100.0	109.1	102	75-125	1.000
Cobalt	0.6223	100.0	100.1	99	75-125	1.000
Copper	6.843	100.0	108.3	101	75-125	1.000
Iron	445.8	10,000	10,720	103	75-125	1.000
Lead	1.798	100.0	104.7	103	75-125	1.000
Magnesium	17,340	10,000	29,900	126 *	75-125	20.00
Manganese	22.55	100.0	121.7	99	75-125	1.000
Nickel	53.69	100.0	156.2	103	75-125	1.000
Potassium	1,596	10,000	12,080	105	75-125	1.000
Selenium	0.4629	100.0	91.90	91	75-125	1.000
Silver	<0.04084	100.0	102.3	102	75-125	1.000
Sodium	23,620	10,000	32,770	92	75-125	20.00
Thallium	0.3495	100.0	96.19	96	75-125	1.000
Vanadium	2.482	100.0	102.2	100	75-125	1.000
Zinc	17.13	100.0	111.0	94	75-125	1.000

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DAESP03	Sampled:	03/08/06
MSS Lab ID:	185408-008	Received:	03/09/06
Matrix:	Filtrate	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/24/06
Batch#:	111388		

Type: MSD Lab ID: QC331837

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
Aluminum	100.0	233.8	109	75-125	5	20	20.00
Antimony	100.0	106.6	106	75-125	2	20	1.000
Arsenic	100.0	99.86	100	75-125	3	20	1.000
Barium	100.0	137.2	102	75-125	2	20	1.000
Beryllium	100.0	97.17	97	75-125	1	20	1.000
Cadmium	100.0	96.91	97	75-125	3	20	1.000
Calcium	10,000	19,370	98	75-125	1	20	20.00
Chromium	100.0	106.0	99	75-125	3	20	1.000
Cobalt	100.0	98.33	98	75-125	2	20	1.000
Copper	100.0	106.2	99	75-125	2	20	1.000
Iron	10,000	10,550	101	75-125	2	20	1.000
Lead	100.0	104.3	103	75-125	0	20	1.000
Magnesium	10,000	29,260	119	75-125	2	20	20.00
Manganese	100.0	119.6	97	75-125	2	20	1.000
Nickel	100.0	153.3	100	75-125	2	20	1.000
Potassium	10,000	11,680	101	75-125	3	20	1.000
Selenium	100.0	89.47	89	75-125	3	20	1.000
Silver	100.0	101.5	102	75-125	1	20	1.000
Sodium	10,000	32,730	91	75-125	0	20	20.00
Thallium	100.0	96.69	96	75-125	1	20	1.000
Vanadium	100.0	100.2	98	75-125	2	20	1.000
Zinc	100.0	109.6	92	75-125	1	20	1.000

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DAESP03	Units:	ug/L
Type:	Serial Dilution	Batch#:	111388
MSS Lab ID:	185408-008	Sampled:	03/08/06
Lab ID:	QC331838	Received:	03/09/06
Matrix:	Filtrate	Analyzed:	03/24/06

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Diln Fac
Aluminum	125.1	100.0	126.0 J	500.0	1	10	5.000
Antimony	ND	1.000	ND	5.000		10	5.000
Arsenic	ND	5.000	ND	25.00		10	5.000
Barium	34.92	10.00	35.18 J	50.00	1	10	5.000
Beryllium	ND	2.000	ND	10.00		10	5.000
Cadmium	ND	1.000	ND	5.000		10	5.000
Calcium	9,570	500.0	9,113	2,500	5	10	5.000
Chromium	ND	10.00	7.217 J	50.00	3	10	5.000
Cobalt	ND	10.00	0.6166 J	50.00		10	5.000
Copper	6.843	1.000	7.008	5.000		10	5.000
Iron	445.8	100.0	422.5 J	500.0	5	10	5.000
Lead	ND	3.000	1.736 J	15.00		10	5.000
Magnesium	17,340	500.0	18,060	2,500	4	10	5.000
Manganese	22.55	10.00	22.78 J	50.00	1	10	5.000
Nickel	53.69	20.00	53.93 J	100.0	0	10	5.000
Potassium	1,596	500.0	1,659 J	2,500	4	10	5.000
Selenium	ND	5.000	ND	25.00		10	5.000
Silver	ND	1.000	ND	5.000		10	5.000
Sodium	23,620	10,000	24,650 J	50,000	4	10	100.0
Thallium	ND	1.000	0.7319 J	5.000		10	5.000
Vanadium	ND	10.00	2.073 J	50.00		10	5.000
Zinc	ND	20.00	20.65 J	100.0		10	5.000

J= Estimated value
ND= Not Detected
RL= Reporting Limit

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET05
Seqnum: 56120449064
File : c2415064
IDF : 1.0
Lab ID: 185408-008
Matrix: Filtrate
Batch : 111388
Time : 24-MAR-2006 21:18
Cal : 56120449001
Units : ug/L

Type : PDS
Inst : MET05
Seqnum: 56120449073
File : c2415073
IDF : 1.0
Lab ID: QC331839
Matrix: Filtrate
Batch : 111388
Time : 24-MAR-2006 22:09
Cal : 56120449001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (100X), 05WS0207

Analyte	MSS	Spiked	PDS	%Rec	Limits	Flags
Aluminum	125.1	100.0	241.7 >LR	117	75-125	>LR **b***
Antimony	0.3902	100.0	105.1	105	75-125	
Arsenic	ND	100.0	99.90	100	75-125	
Barium	34.92	100.0	134.6	100	75-125	
Beryllium	ND	100.0	97.85	98	75-125	
Cadmium	ND	100.0	96.62	97	75-125	
Calcium	9570	10000	19910	103	75-125	
Chromium	7.416	100.0	105.9	98	75-125	
Cobalt	0.6223	100.0	97.53	97	75-125	
Copper	6.843	100.0	106.0	99	75-125	
Iron	445.8	10000	10470	100	75-125	
Lead	1.798	100.0	105.8	104	75-125	
Magnesium	17340	10000	27200 >LR	99	75-125	>LR **b***
Manganese	22.55	100.0	118.4	96	75-125	
Molybdenum	0.1349	100.0	101.2	101	75-125	
Nickel	53.69	100.0	152.2	99	75-125	
Potassium	1596	10000	11770	102	75-125	
Selenium	0.4629	100.0	89.55	89	75-125	
Silver	ND	100.0	100.8	101	75-125	
Thallium	0.3495	100.0	97.28	97	75-125	
Vanadium	2.482	100.0	99.39	97	75-125	
Zinc	17.13	100.0	107.9	91	75-125	

ISTD (ICALBLK c2415003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	988200	821562	-16.86
Scandium	562292	448903	-20.17
Germanium	180440	137575	-23.76
Indium	1368410	984025	-28.09
Bismuth	1333700	903300	-32.27

MISSING READINGS: **NA**

>LR=overrange b=noncompliant

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET05
Seqnum: 56120449077
File : c2415077
IDF : 20.0
Lab ID: 185408-008
Matrix: Filtrate
Batch : 111388
Time : 24-MAR-2006 22:31
Cal : 56120449001
Units : ug/L

Type : PDS
Inst : MET05
Seqnum: 56120449081
File : c2415081
IDF : 20.0
Lab ID: QC331839
Matrix: Filtrate
Batch : 111388
Time : 24-MAR-2006 22:53
Cal : 56120449001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (2000X), 05WS0207

Analyte	MSS	Spiked	PDS	%Rec	Limits	Flags
Aluminum	12.36	5.000	11.40	**-19***	75-125	
Antimony	ND	5.000	5.015	100	75-125	
Arsenic	ND	5.000	5.010	100	75-125	
Barium	1.855	5.000	6.365	90	75-125	
Beryllium	ND	5.000	4.849	97	75-125	
Cadmium	ND	5.000	5.290	106	75-125	
Calcium	510.0	500.0	941.0	86	75-125	
Chromium	0.4092	5.000	5.280	97	75-125	
Cobalt	0.07350	5.000	4.902	97	75-125	
Copper	0.5145	5.000	5.380	97	75-125	
Iron	41.03	500.0	496.2	91	75-125	
Lead	ND	5.000	4.664	93	75-125	
Magnesium	909.5	500.0	1432	105	75-125	
Manganese	1.312	5.000	6.000	94	75-125	
Molybdenum	0.1843	5.000	4.835	93	75-125	
Nickel	2.836	5.000	7.635	96	75-125	
Potassium	90.00	500.0	609.0	104	75-125	
Selenium	ND	5.000	5.440	109	75-125	
Silver	ND	5.000	5.235	105	75-125	
Sodium	1181	500.0	1594	83	75-125	
Thallium	1.206	5.000	4.314	**62***	75-125	
Vanadium	ND	5.000	4.870	97	75-125	
Zinc	1.283	5.000	6.375	102	75-125	

ISTD (ICALBLK c2415003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	988200	876342	-11.32
Scandium	562292	471766	-16.10
Germanium	180440	152091	-15.71
Indium	1368410	1151606	-15.84
Bismuth	1333700	1142680	-14.32

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56120449001
Units : ug/L

Date : 24-MAR-2006 15:41
X Axis : R

Reviewer: ---
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	c2415004	56120449004	CS1	24-MAR-2006 15:46	S2889
L2	c2415005	56120449005	CS2	24-MAR-2006 15:52	S2890
L3	c2415006	56120449006	CS3	24-MAR-2006 15:57	S2891
L4	c2415007	56120449007	CS4	24-MAR-2006 16:03	S2892
L5	c2415008	56120449008	CS5	24-MAR-2006 16:09	S2886
L6	c2415009	56120449009	CS6	24-MAR-2006 16:14	S2887

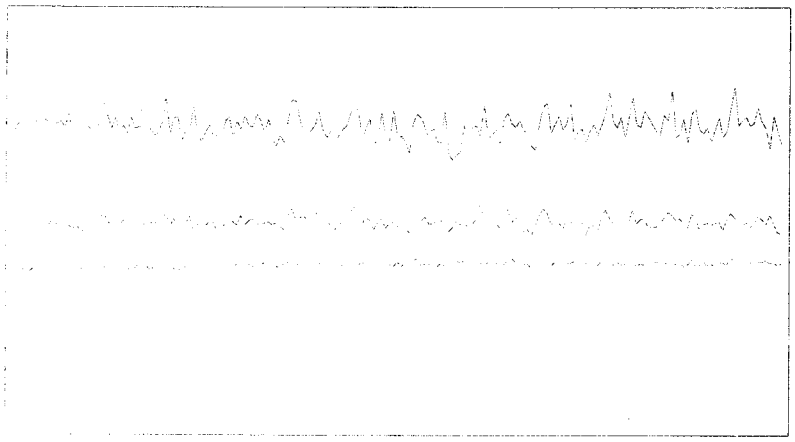
Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		1.8605	1.1946	0.4907	0.4094	0.4097	BLNK	-1.6870	2.46573		0.8730	1.000	0.995	
Antimony	0.1780	0.1434	0.1257	0.1098	0.1029	0.1019	BLNK	-0.1664	9.80139		0.1269	1.000	0.995	
Arsenic		0.2728	0.2620	0.2056	0.2010	0.1990	BLNK	-0.1452	5.01868		0.2281	1.000	0.995	
Barium	0.0583	0.0574	0.0479	0.0444	0.0446	0.0453	BLNK	-0.0450	22.1682		0.0496	1.000	0.995	
Beryllium	0.0661	0.0593	0.0607	0.0585	0.0590	0.0588	BLNK	-0.0029	17.0061		0.0604	1.000	0.995	
Cadmium	0.5468	0.4191	0.3292	0.2506	0.2312	0.2236	BLNK	-0.3575	4.45075		0.3334	1.000	0.995	
Calcium		0.0121	0.0104	0.0088	0.0089	0.0088	BLNK	-15.467	113.905		0.0098	1.000	0.995	190
Chromium		2.3744	1.7967	1.1375	1.0851	1.0705	BLNK	-0.6189	0.93502		1.4929	1.000	0.995	
Cobalt	1.6505	1.5760	1.5236	1.4844	1.4616	1.4745	BLNK	-0.0218	0.67948		1.5284	1.000	0.995	
Copper		0.7293	0.6445	0.4408	0.3931	0.3808	BLNK	-0.3058	2.61347		0.5177	1.000	0.995	
Iron		0.0506	0.0428	0.0355	0.0358	0.0349	BLNK	-21.353	28.5285		0.0399	1.000	0.995	
Lead	0.5069	0.5076	0.4807	0.4612	0.4729	0.4717	BLNK	-0.0318	2.11926		0.4835	1.000	0.995	
Magnesium		0.0517	0.0515	0.0513	0.0513	0.0492	BLNK	-1.4769	20.1503		0.0510	1.000	0.995	
Manganese	2.2757	2.0345	1.9020	1.6279	1.5790	1.6056	BLNK	-0.0591	0.62511		1.8374	1.000	0.995	
Molybdenum		0.4345	0.4191	0.4041	0.4047	0.4013	BLNK	-0.0797	2.48909		0.4127	1.000	0.995	
Nickel	0.6375	0.4675	0.4141	0.3391	0.3194	0.3117	BLNK	-0.1830	3.19569		0.4149	1.000	0.995	
Potassium		0.6418	0.4774	0.3254	0.3000	0.2894	BLNK	-57.377	3.44186		0.4068	1.000	0.995	
Selenium		0.0460	0.0348	0.0223	0.0207	0.0199	BLNK	-0.4990	50.0105		0.0287	1.000	0.995	
Silver	1.1672	1.0952	1.1200	1.0903	1.0505	1.0242	BLNK	-0.0141	0.97135		1.0912	1.000	0.995	
Sodium		0.6166	0.6212	0.5282	0.5092	0.4996	BLNK	-10.059	1.99501		0.5550	1.000	0.995	
Thallium		0.3411	0.3263	0.3031	0.3335	0.3464	BLNK	-0.0388	2.91011		0.3301	1.000	0.995	
Vanadium		1.3448	1.3988	1.2138	1.2039	1.2363	BLNK	-0.1996	0.81418		1.2795	1.000	0.995	
Zinc		1.2572	0.8374	0.3067	0.2462	0.2333	BLNK	-1.6768	4.28153		0.5762	0.999	0.995	

BLNK=Y=aX+[blank]

Instrument amount = a0 + response * a1 + response^2 * a2

Tune Report

Tune File : ATUNE.U



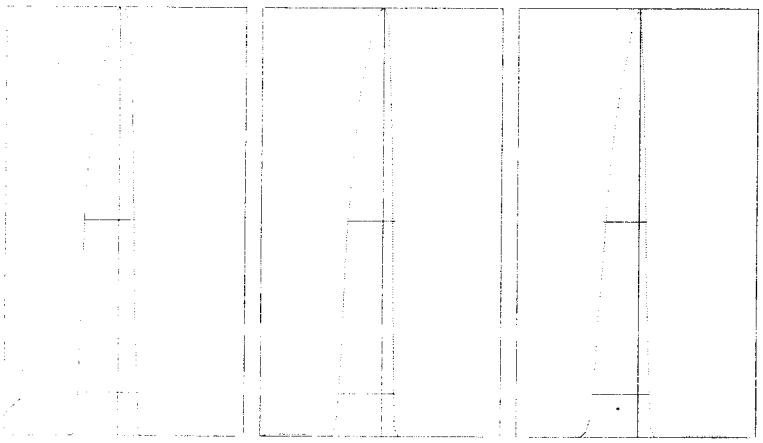
m/z:	7	89	205
Range:	20,000	50,000	50,000
Count:	13,609	23,577	20,220
Mean:	14435.6	24900.6	19936.6
RSD%:	4.15	2.70	1.95
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.45%
Doubly Charged:	70/140	0.87%

Background:

m/z:	7	89	205
Cps:	3.6	2.7	3.4



m/z:	7	89	205
Height:	14,342	24,842	20,339
Axis:	6.95	89.05	205.05
W-50%:	0.65	0.60	0.55
W-10%:	0.7500	0.700	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===			===Ion Lenses===			===Q-Pole Parameters===		
RF Power:	1210	W	Extract 1:	-156.2	V	AMU Gain:	129	
RF Matching:	1.62	V	Extract 2:	-96	V	AMU Offset:	127	
Smpl Depth:	7	mm	Einzel 1,3:	-66	V	Axis Gain:	0.9998	
Torch-H:	0	mm	Einzel 2:	16	V	Axis Offset:	-0.07	
Torch-V:	0.4	mm	Omega Bias:	-33	V	QP Bias:	1.5	V
Carrier Gas:	1.14	L/min	Omega (+):	1	V			
Makeup Gas:	0	L/min	Omega (-):	-6.7	V	===Detector Parameters===		
Optional Gas:	---	%	QP Focus:	7.1	V	Discriminator:	8.7	mV
PeriPump1:	0.1	rps	Plate Bias:	-12.5	V	Analog HV:	1760	V
PeriPump2:	---	rps				Pulse HV:	1200	V
S/C Temp:	2	degC						

Generated : Mar 24, 2006 09:36:10
Printed : Mar 24, 2006 09:36:18

P/A Factor Tuning Report

Acquired:Mar 24 2006 09:58 am

Mass[amu]	Element	P/A Factor
6	Li	0.069890
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.091599
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.096622
45	Sc	0.093601
51	V	0.096393
52	Cr	0.098039
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.100615
57	Fe	0.103163
59	Co	0.102826
60	Ni	Sensitivity too low
63	Cu	0.103753
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.103865
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.109250
111	Cd	Sensitivity too low
114	Cd	0.107106
115	In	0.111014
118	(In)	Sensitivity too high
121	Sb	0.107751
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.115795
166	Er	Sensitivity too low

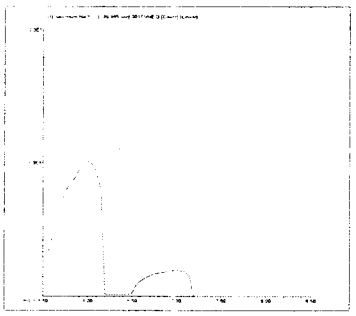
```
    205        Tl    0.119230
    206      (Pb)    0.115740
    207      (Pb)  Sensitivity too low
    208        Pb    0.118111
    209        Bi    0.119285

===Detector Parameters===
  Discriminator: 8.7 mV
      Analog HV: 1760 V
       Pulse HV: 1200 V
```

6020 QC Tune Report

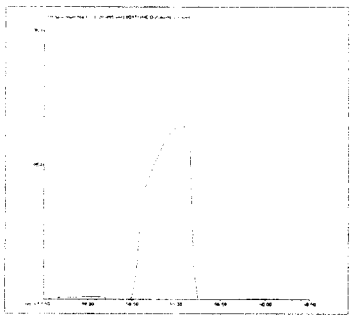
Data File: C:\ICPCHEM\1\DATA\06C2415a.B\001TUNE.D
Date Acquired: Mar 24 2006 03:29 pm
Acq. Method: TN6020.M
Operator:
Sample Name: TUN,S2898
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

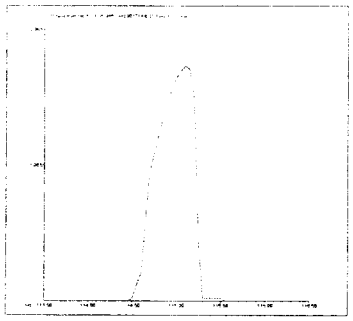
Element	Actual	Required	Flag
7 Li	0.91	5.00	
59 Co	0.65	5.00	
115 In	0.92	5.00	
205 Tl	0.37	5.00	



7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



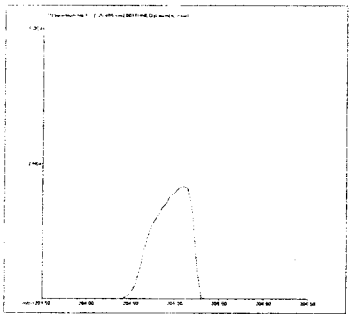
115 In

Mass Calib.

Actual:	115.10
Required:	114.90 - 115.10
Flag:	

Peak Width

Actual:	0.60
Required:	0.90
Flag:	



205 Tl

Mass Calib.

Actual:	205.10
Required:	204.90 - 205.10
Flag:	

Peak Width

Actual:	0.65
Required:	0.90
Flag:	

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415A.B\002BLNK.D\002BLNK.D#
Date Acquired: Mar 24 2006 03:35 pm
Acq. Method: 60200111.M
Operator:
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update: Mar 24 2006 11:26 am
Sample Type: 6-Blank
Dilution Factor: 1.00

QC Elements

Element	Corr. Conc.	RSD(%)	Raw Conc.	High Limit	Flag
9 Be	-0.001015 ppb	161.38	-0.001015	1.00	
23 Na	-1.738 ppb	92.98	-1.738	1.00	
26 Mg	-0.8588 ppb	49.65	-0.8588	1.00	
27 Al	-1.781 ppb	24.15	-1.781	1.00	
39 K	0.3404 ppb	385.72	0.3404	1.00	
44 Ca	-6.799 ppb	22.49	-6.799	1.00	
51 V	0.03006 ppb	56.52	0.03006	1.00	
52 Cr	-0.06791 ppb	29.58	-0.06791	1.00	
55 Mn	-0.003013 ppb	187.09	-0.003013	1.00	
57 Fe	2.081 ppb	32.68	2.081	1.00	
59 Co	-0.00569 ppb	52.51	-0.00569	1.00	
60 Ni	0.01019 ppb	89.53	0.01019	1.00	
65 Cu	-0.1327 ppb	25.97	-0.1327	1.00	
66 Zn	-0.02679 ppb	304.18	-0.02679	1.00	
75 As	-0.2177 ppb	66.61	-0.2177	1.00	
82 Se	-0.1506 ppb	182.20	-0.1506	1.00	
95 Mo	0.02955 ppb	8.31	0.02955	1.00	
109 Ag	-0.006384 ppb	7.97	-0.006384	1.00	
111 Cd	0.05344 ppb	67.35	0.05344	1.00	
121 Sb	0.08967 ppb	16.39	0.08967	1.00	
137 Ba	-0.0177 ppb	20.78	-0.0177	1.00	
205 Tl	0.009955 ppb	109.49	0.009955	1.00	
208 Pb	-0.002155 ppb	105.01	-0.002155	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	988486.00	0.86	---	#VALUE!	80 - 120	
45 Sc	582573.75	2.56	---	#VALUE!	80 - 120	
72 Ge	181827.56	0.52	---	#VALUE!	80 - 120	
115 In	1400126.40	0.48	---	#VALUE!	80 - 120	
209 Bi	1349633.10	0.73	---	#VALUE!	80 - 120	

ISTD Ref File : ---

1 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes:	Fail
ISTD:	Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2415a.B\003CAL
Date Acquired:	Mar 24 2006 03:41 pm
Operator:	
Sample Name:	std-blk
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 24 2006 11:26 am
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	988199.50	A	16580.00	1.68
9	Be	3.33	P	3.33	99.99
23	Na	56710.00	P	10620.00	18.73
26	Mg	824.44	P	365.40	44.32
27	Al	7695.56	P	3062.00	39.79
39	K	187473.30	P	1880.00	1.00
44	Ca	1527.23	P	215.90	14.14
45	Sc	562292.19	P	586.20	0.10
51	V	884.61	P	109.60	12.39
52	Cr	2388.89	P	49.14	2.06
55	Mn	341.11	P	3.85	1.13
57	Fe	2701.11	P	177.70	6.58
59	Co	115.56	P	37.91	32.81
60	Ni	206.67	P	12.02	5.82
65	Cu	422.22	P	30.06	7.12
66	Zn	1413.33	P	56.96	4.03
72	Ge	180440.20	P	158.70	0.09
75	As	104.41	P	105.20	100.75
82	Se	36.00	P	14.34	39.83
95	Mo	115.56	P	33.72	29.18
109	Ag	52.22	P	6.94	13.29
111	Cd	289.93	P	46.06	15.89
115	In	1368410.00	A	7751.00	0.57
121	Sb	464.44	P	30.97	6.67
137	Ba	55.56	P	7.70	13.86
205	Tl	355.56	P	8.39	2.36
208	Pb	400.00	P	52.39	13.10
209	Bi	1333700.00	A	8509.00	0.64

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\004CALI.D\004CALI.D#
Date Acquired: Mar 24 2006 03:46 pm
Operator:
Sample Name: CS1,S2889
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 03:42 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	988584.31	A	14250.00	1.44
9 Be	326.67	P	21.86	6.69
23 Na	202917.80	P	2848.00	1.40
26 Mg	14972.22	P	65.52	0.44
27 Al	10315.56	P	1244.00	12.06
39 K	272992.19	P	890.10	0.33
44 Ca	4467.14	P	154.80	3.47
45 Sc	554806.63	P	3427.00	0.62
51 V	1905.36	P	245.40	12.88
52 Cr	3317.78	P	66.78	2.01
55 Mn	2034.44	P	56.80	2.79
57 Fe	5817.78	P	117.10	2.01
59 Co	1475.56	P	71.21	4.83
60 Ni	570.00	P	43.33	7.60
65 Cu	977.71	P	21.17	2.17
66 Zn	1907.70	P	62.03	3.25
72 Ge	178790.91	P	886.40	0.50
75 As	251.72	P	27.27	10.83
82 Se	55.78	P	9.44	16.92
95 Mo	477.78	P	37.47	7.84
109 Ag	1043.33	P	35.12	3.37
111 Cd	488.90	P	35.84	7.33
115 In	1341015.00	A	6675.00	0.50
121 Sb	1193.33	P	51.75	4.34
137 Ba	391.11	P	10.72	2.74
205 Tl	2348.89	P	38.63	1.64
208 Pb	3326.67	P	105.90	3.18
209 Bi	1312303.00	A	12540.00	0.96

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	988584.31	1.44	988199.56	100.0	80 - 120	

45	Sc	554806.63	0.62	562292.19	98.7	80 - 120
72	Ge	178790.89	0.50	180440.23	99.1	80 - 120
115	In	1341014.50	0.50	1368409.90	98.0	80 - 120
209	Bi	1312303.50	0.96	1333700.40	98.4	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\005CALI.D\005CALI.D#
Date Acquired: Mar 24 2006 03:52 pm
Operator:
Sample Name: CS2,S2890
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 03:48 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	983386.19	A	20930.00	2.13
9	Be	582.22	P	26.74	4.59
23	Na	341757.81	P	1515.00	0.44
26	Mg	28675.56	P	189.60	0.66
27	Al	10312.22	P	184.10	1.79
39	K	355686.69	P	1252.00	0.35
44	Ca	6701.30	P	215.50	3.22
45	Sc	554336.88	M	9431.00	1.70
51	V	2396.94	P	53.61	2.24
52	Cr	4232.22	P	26.94	0.64
55	Mn	3626.67	P	78.81	2.17
57	Fe	9024.44	P	150.20	1.66
59	Co	2808.89	P	123.60	4.40
60	Ni	833.33	P	49.10	5.89
65	Cu	1299.88	P	78.10	6.01
66	Zn	2240.97	P	59.66	2.66
72	Ge	178246.41	P	1375.00	0.77
75	As	486.77	P	125.60	25.80
82	Se	82.00	P	11.10	13.54
95	Mo	774.44	P	15.75	2.03
109	Ag	1952.22	P	67.52	3.46
111	Cd	746.83	P	54.02	7.23
115	In	1332685.00	A	9908.00	0.74
121	Sb	1911.11	P	45.01	2.36
137	Ba	764.44	P	25.24	3.30
205	Tl	4411.11	P	140.00	3.17
208	Pb	6561.11	P	36.57	0.56
209	Bi	1292847.00	A	16910.00	1.31

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	983386.19	2.13	988199.56	99.5	80 - 120	

45	Sc	554336.88	1.70	562292.19	98.6	80 - 120
72	Ge	178246.44	0.77	180440.23	98.8	80 - 120
115	In	1332685.30	0.74	1368409.90	97.4	80 - 120
209	Bi	1292846.90	1.31	1333700.40	96.9	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\006CALI.D\006CALI.D#
Date Acquired: Mar 24 2006 03:57 pm
Operator:
Sample Name: CS3,S2891
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 03:54 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	985103.31	A	8703.00	0.88
9 Be	1195.56	P	36.72	3.07
23 Na	688407.38	A	3988.00	0.58
26 Mg	57041.11	P	294.30	0.52
27 Al	13238.89	P	252.20	1.91
39 K	529102.19	P	763.10	0.14
44 Ca	11580.14	P	164.50	1.42
45 Sc	554111.13	P	3908.00	0.71
51 V	5051.42	P	449.10	8.89
52 Cr	6488.89	P	302.00	4.65
55 Mn	6868.89	P	209.40	3.05
57 Fe	15464.44	P	82.28	0.53
59 Co	5502.22	P	218.30	3.97
60 Ni	1495.56	P	40.05	2.68
65 Cu	2327.53	P	133.70	5.74
66 Zn	3024.16	P	25.46	0.84
72 Ge	180561.80	P	500.50	0.28
75 As	946.08	P	64.35	6.80
82 Se	125.78	P	16.52	13.13
95 Mo	1513.33	P	64.38	4.25
109 Ag	4044.44	P	156.90	3.88
111 Cd	1188.60	P	74.62	6.28
115 In	1334888.00	A	4909.00	0.37
121 Sb	3355.55	P	105.70	3.15
137 Ba	1280.00	P	47.26	3.69
205 Tl	8486.67	P	141.80	1.67
208 Pb	12502.22	P	158.10	1.26
209 Bi	1300466.00	A	6211.00	0.48

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	985103.31	0.88	988199.56	99.7	80 - 120	

45	Sc	554111.06	0.71	562292.19	98.5	80 - 120
72	Ge	180561.77	0.28	180440.23	100.1	80 - 120
115	In	1334887.50	0.37	1368409.90	97.6	80 - 120
209	Bi	1300466.30	0.48	1333700.40	97.5	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\007CALI.D\007CALI.D#
Date Acquired: Mar 24 2006 04:03 pm
Operator:
Sample Name: CS4,S2892
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 03:59 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	1013057.00	A	4024.00	0.40
9	Be	11861.11	P	195.00	1.64
23	Na	5832080.00	A	6041.00	0.10
26	Mg	566326.63	P	3938.00	0.70
27	Al	54172.22	P	546.60	1.01
39	K	3592013.00	A	32590.00	0.91
44	Ca	97328.51	P	309.90	0.32
45	Sc	552032.19	P	2550.00	0.46
51	V	43931.11	P	1029.00	2.34
52	Cr	41168.89	P	360.30	0.88
55	Mn	58915.55	P	361.00	0.61
57	Fe	128450.00	P	1593.00	1.24
59	Co	53722.22	P	576.60	1.07
60	Ni	12272.22	P	121.60	0.99
65	Cu	15954.22	P	391.80	2.46
66	Zn	11101.61	P	118.60	1.07
72	Ge	180956.00	P	1160.00	0.64
75	As	7441.71	P	66.56	0.89
82	Se	807.56	P	57.47	7.12
95	Mo	14624.44	P	99.13	0.68
109	Ag	39456.67	P	803.00	2.04
111	Cd	9067.72	P	165.20	1.82
115	In	1319021.00	A	9345.00	0.71
121	Sb	28952.22	P	399.00	1.38
137	Ba	11704.44	P	38.63	0.33
205	Tl	78612.22	P	2265.00	2.88
208	Pb	119622.20	P	721.70	0.60
209	Bi	1297106.00	A	16000.00	1.23

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1013056.60	0.40	988199.56	102.5	80 - 120	

45	Sc	552032.19	0.46	562292.19	98.2	80 - 120
72	Ge	180956.00	0.64	180440.23	100.3	80 - 120
115	In	1319021.30	0.71	1368409.90	96.4	80 - 120
209	Bi	1297106.00	1.23	1333700.40	97.3	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\008CALI.D\008CALI.D#
Date Acquired: Mar 24 2006 04:09 pm
Operator:
Sample Name: CS5,S2886
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 04:05 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	997164.81	A	7526.00	0.75
9 Be	117577.80	P	984.80	0.84
23 Na	55690040.00	A	264000.00	0.47
26 Mg	5606693.00	A	73650.00	1.31
27 Al	447697.69	P	891.30	0.20
39 K	32802080.00	A	398000.00	1.21
44 Ca	972650.31	A	8226.00	0.85
45 Sc	546950.00	P	9618.00	1.76
51 V	429694.59	P	3616.00	0.84
52 Cr	387310.00	P	2856.00	0.74
55 Mn	563601.13	P	5703.00	1.01
57 Fe	1277209.00	A	14640.00	1.15
59 Co	521696.59	P	6118.00	1.17
60 Ni	113996.70	P	552.30	0.48
65 Cu	140295.70	P	1531.00	1.09
66 Zn	87865.30	P	1053.00	1.20
72 Ge	178472.91	P	2302.00	1.29
75 As	71733.88	P	463.20	0.65
82 Se	7376.44	P	94.50	1.28
95 Mo	144456.70	P	655.50	0.45
109 Ag	374954.41	P	2785.00	0.74
111 Cd	82518.75	P	744.80	0.90
115 In	1276593.00	A	7314.00	0.57
121 Sb	262628.91	P	1502.00	0.57
137 Ba	113897.80	P	1607.00	1.41
205 Tl	814328.88	P	8399.00	1.03
208 Pb	1154651.00	P	12360.00	1.07
209 Bi	1220765.00	A	9341.00	0.77

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	997164.75	0.75	988199.56	100.9	80 - 120	

45	Sc	546950.00	1.76	562292.19	97.3	80 - 120
72	Ge	178472.89	1.29	180440.23	98.9	80 - 120
115	In	1276592.60	0.57	1368409.90	93.3	80 - 120
209	Bi	1220764.50	0.77	1333700.40	91.5	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\009CALI.D\009CALI.D#
Date Acquired: Mar 24 2006 04:14 pm
Operator:
Sample Name: CS6,S2887
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 04:10 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	969750.81	A	13270.00	1.37
9 Be	227935.50	P	2011.00	0.88
23 Na	109416300.00	A	1294000.00	1.18
26 Mg	10779680.00	A	214700.00	1.99
27 Al	897228.88	A	10640.00	1.19
39 K	63376860.00	A	47640.00	0.08
44 Ca	1918831.00	A	26230.00	1.37
45 Sc	547532.19	P	4418.00	0.81
51 V	878675.19	A	3703.00	0.42
52 Cr	760898.69	M	5958.00	0.78
55 Mn	1141159.00	A	20010.00	1.75
57 Fe	2482416.00	A	19690.00	0.79
59 Co	1047991.00	A	8862.00	0.85
60 Ni	221525.50	P	186.80	0.08
65 Cu	270644.00	P	960.70	0.35
66 Zn	165786.09	P	126.90	0.08
72 Ge	177688.00	P	688.10	0.39
75 As	141459.20	P	636.00	0.45
82 Se	14143.11	P	72.27	0.51
95 Mo	285186.69	P	476.60	0.17
109 Ag	727951.13	P	1026.00	0.14
111 Cd	158931.50	P	617.80	0.39
115 In	1239353.00	A	6776.00	0.55
121 Sb	505296.59	P	1214.00	0.24
137 Ba	224328.91	P	625.60	0.28
205 Tl	1646884.00	A	9703.00	0.59
208 Pb	2243062.00	A	8326.00	0.37
209 Bi	1188714.00	A	4321.00	0.36

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	969750.81	1.37	988199.56	98.1	80 - 120	

45	Sc	547532.19	0.81	562292.19	97.4	80 - 120
72	Ge	177688.00	0.39	180440.23	98.5	80 - 120
115	In	1239352.60	0.55	1368409.90	90.6	80 - 120
209	Bi	1188713.90	0.36	1333700.40	89.1	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449010 File : c2415010 Time : 24-MAR-2006 16:19
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2895

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	0.8730	0.4231	100.0	102.6	ug/L	3	10	
Antimony	0.1269	0.1074	100.0	105.1	ug/L	5	10	
Arsenic	0.2281	0.2052	100.0	102.8	ug/L	3	10	
Barium	0.0496	0.0462	100.0	102.3	ug/L	2	10	
Beryllium	0.0604	0.0600	100.0	102.0	ug/L	2	10	
Cadmium	0.3334	0.2329	100.0	103.3	ug/L	3	10	
Calcium	0.0098	0.0093	10000	10530	ug/L	5	10	
Chromium	1.4929	1.0962	100.0	101.9	ug/L	2	10	
Cobalt	1.5284	1.4811	100.0	100.6	ug/L	1	10	
Copper	0.5177	0.3977	100.0	103.6	ug/L	4	10	
Iron	0.0399	0.0366	10000	10410	ug/L	4	10	
Lead	0.4835	0.4753	100.0	100.7	ug/L	1	10	
Magnesium	0.0510	0.0521	10000	10500	ug/L	5	10	
Manganese	1.8374	1.5975	100.0	99.80	ug/L	0	10	
Molybdenum	0.4127	0.4099	100.0	101.9	ug/L	2	10	
Nickel	0.4149	0.3241	100.0	103.4	ug/L	3	10	
Potassium	0.4068	0.3080	10000	10540	ug/L	5	10	
Selenium	0.0287	0.0209	100.0	104.2	ug/L	4	10	
Silver	1.0912	1.0643	100.0	103.4	ug/L	3	10	
Sodium	0.5550	0.5247	10000	10460	ug/L	5	10	
Thallium	0.3301	0.3378	100.0	98.26	ug/L	-2	10	
Vanadium	1.2795	1.2206	100.0	99.18	ug/L	-1	10	
Zinc	0.5762	0.2498	100.0	105.3	ug/L	5	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	958842	-2.97
Scandium	562292	528272	-6.05
Germanium	180440	174083	-3.52
Indium	1368410	1218569	-10.95
Bismuth	1333700	1195887	-10.33

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449024 File : c2415024 Time : 24-MAR-2006 17:37
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.4129	150.0	151.0	ug/L	1	10	
Antimony	0.1269	0.0990	150.0	145.4	ug/L	-3	10	
Arsenic	0.2281	0.2000	150.0	150.4	ug/L	0	10	
Barium	0.0496	0.0446	150.0	148.2	ug/L	-1	10	
Beryllium	0.0604	0.0589	150.0	150.1	ug/L	0	10	
Cadmium	0.3334	0.2238	150.0	149.0	ug/L	-1	10	
Calcium	0.0098	0.0088	15000	14940	ug/L	0	10	
Chromium	1.4929	1.0549	150.0	147.3	ug/L	-2	10	
Cobalt	1.5284	1.4238	150.0	145.1	ug/L	-3	10	
Copper	0.5177	0.3830	150.0	149.8	ug/L	0	10	
Iron	0.0399	0.0346	15000	14780	ug/L	-1	10	
Lead	0.4835	0.4685	150.0	148.9	ug/L	-1	10	
Magnesium	0.0510	0.0498	15000	15070	ug/L	0	10	
Manganese	1.8374	1.5333	150.0	143.7	ug/L	-4	10	
Molybdenum	0.4127	0.3979	150.0	148.5	ug/L	-1	10	
Nickel	0.4149	0.3113	150.0	149.1	ug/L	-1	10	
Potassium	0.4068	0.2962	15000	15230	ug/L	2	10	
Selenium	0.0287	0.0204	150.0	152.6	ug/L	2	10	
Silver	1.0912	1.0203	150.0	148.6	ug/L	-1	10	
Sodium	0.5550	0.5002	15000	14960	ug/L	0	10	
Thallium	0.3301	0.3509	150.0	153.1	ug/L	2	10	
Vanadium	1.2795	1.1809	150.0	144.0	ug/L	-4	10	
Zinc	0.5762	0.2375	150.0	150.8	ug/L	1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	974542	-1.38
Scandium	562292	535254	-4.81
Germanium	180440	170147	-5.70
Indium	1368410	1196955	-12.53
Bismuth	1333700	1140941	-14.45

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449039 File : c2415039 Time : 24-MAR-2006 19:00
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.4015	150.0	146.8	ug/L	-2	10	
Antimony	0.1269	0.1007	150.0	147.8	ug/L	-1	10	
Arsenic	0.2281	0.2009	150.0	151.1	ug/L	1	10	
Barium	0.0496	0.0443	150.0	147.2	ug/L	-2	10	
Beryllium	0.0604	0.0584	150.0	149.1	ug/L	-1	10	
Cadmium	0.3334	0.2271	150.0	151.3	ug/L	1	10	
Calcium	0.0098	0.0089	15000	15250	ug/L	2	10	
Chromium	1.4929	1.0600	150.0	148.1	ug/L	-1	10	
Cobalt	1.5284	1.4254	150.0	145.3	ug/L	-3	10	
Copper	0.5177	0.3797	150.0	148.5	ug/L	-1	10	
Iron	0.0399	0.0347	15000	14850	ug/L	-1	10	
Lead	0.4835	0.4635	150.0	147.3	ug/L	-2	10	
Magnesium	0.0510	0.0503	15000	15200	ug/L	1	10	
Manganese	1.8374	1.5394	150.0	144.3	ug/L	-4	10	
Molybdenum	0.4127	0.4016	150.0	149.8	ug/L	0	10	
Nickel	0.4149	0.3094	150.0	148.1	ug/L	-1	10	
Potassium	0.4068	0.3002	15000	15440	ug/L	3	10	
Selenium	0.0287	0.0204	150.0	152.2	ug/L	1	10	
Silver	1.0912	1.0257	150.0	149.4	ug/L	0	10	
Sodium	0.5550	0.5050	15000	15100	ug/L	1	10	
Thallium	0.3301	0.3447	150.0	150.4	ug/L	0	10	
Vanadium	1.2795	1.1903	150.0	145.2	ug/L	-3	10	
Zinc	0.5762	0.2357	150.0	149.7	ug/L	0	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	953180	-3.54
Scandium	562292	509681	-9.36
Germanium	180440	163182	-9.56
Indium	1368410	1155967	-15.52
Bismuth	1333700	1119152	-16.09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449053 File : c2415053 Time : 24-MAR-2006 20:18
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.4036	150.0	147.6	ug/L	-2	10	
Antimony	0.1269	0.1014	150.0	149.0	ug/L	-1	10	
Arsenic	0.2281	0.1989	150.0	149.6	ug/L	0	10	
Barium	0.0496	0.0447	150.0	148.7	ug/L	-1	10	
Beryllium	0.0604	0.0579	150.0	147.6	ug/L	-2	10	
Cadmium	0.3334	0.2257	150.0	150.3	ug/L	0	10	
Calcium	0.0098	0.0090	15000	15330	ug/L	2	10	
Chromium	1.4929	1.0611	150.0	148.2	ug/L	-1	10	
Cobalt	1.5284	1.4204	150.0	144.8	ug/L	-3	10	
Copper	0.5177	0.3793	150.0	148.4	ug/L	-1	10	
Iron	0.0399	0.0351	15000	15010	ug/L	0	10	
Lead	0.4835	0.4670	150.0	148.4	ug/L	-1	10	
Magnesium	0.0510	0.0501	15000	15140	ug/L	1	10	
Manganese	1.8374	1.5439	150.0	144.7	ug/L	-4	10	
Molybdenum	0.4127	0.4017	150.0	149.9	ug/L	0	10	
Nickel	0.4149	0.3087	150.0	147.8	ug/L	-1	10	
Potassium	0.4068	0.2959	15000	15220	ug/L	1	10	
Selenium	0.0287	0.0201	150.0	150.3	ug/L	0	10	
Silver	1.0912	1.0297	150.0	150.0	ug/L	0	10	
Sodium	0.5550	0.5104	15000	15260	ug/L	2	10	
Thallium	0.3301	0.3480	150.0	151.9	ug/L	1	10	
Vanadium	1.2795	1.1920	150.0	145.4	ug/L	-3	10	
Zinc	0.5762	0.2370	150.0	150.5	ug/L	0	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	938741	-5.00
Scandium	562292	499396	-11.19
Germanium	180440	159991	-11.33
Indium	1368410	1139949	-16.70
Bismuth	1333700	1112291	-16.60

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449069 File : c2415069 Time : 24-MAR-2006 21:46
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3905	150.0	142.7	ug/L	-5	10	
Antimony	0.1269	0.1011	150.0	148.5	ug/L	-1	10	
Arsenic	0.2281	0.2001	150.0	150.5	ug/L	0	10	
Barium	0.0496	0.0442	150.0	147.0	ug/L	-2	10	
Beryllium	0.0604	0.0589	150.0	150.2	ug/L	0	10	
Cadmium	0.3334	0.2261	150.0	150.6	ug/L	0	10	
Calcium	0.0098	0.0089	15000	15210	ug/L	1	10	
Chromium	1.4929	1.0480	150.0	146.4	ug/L	-2	10	
Cobalt	1.5284	1.4064	150.0	143.3	ug/L	-4	10	
Copper	0.5177	0.3769	150.0	147.4	ug/L	-2	10	
Iron	0.0399	0.0347	15000	14840	ug/L	-1	10	
Lead	0.4835	0.4577	150.0	145.5	ug/L	-3	10	
Magnesium	0.0510	0.0493	15000	14910	ug/L	-1	10	
Manganese	1.8374	1.5318	150.0	143.6	ug/L	-4	10	
Molybdenum	0.4127	0.4024	150.0	150.2	ug/L	0	10	
Nickel	0.4149	0.3087	150.0	147.8	ug/L	-1	10	
Potassium	0.4068	0.2976	15000	15310	ug/L	2	10	
Selenium	0.0287	0.0204	150.0	152.2	ug/L	1	10	
Silver	1.0912	1.0257	150.0	149.4	ug/L	0	10	
Sodium	0.5550	0.4976	15000	14880	ug/L	-1	10	
Thallium	0.3301	0.3441	150.0	150.2	ug/L	0	10	
Vanadium	1.2795	1.1868	150.0	144.7	ug/L	-4	10	
Zinc	0.5762	0.2343	150.0	148.8	ug/L	-1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	867540	-12.21
Scandium	562292	477594	-15.06
Germanium	180440	152734	-15.35
Indium	1368410	1090823	-20.29
Bismuth	1333700	1069936	-19.78

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449083 File : c2415083 Time : 24-MAR-2006 23:04
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3890	150.0	142.2	ug/L	-5	10	
Antimony	0.1269	0.1006	150.0	147.7	ug/L	-2	10	
Arsenic	0.2281	0.2005	150.0	150.8	ug/L	1	10	
Barium	0.0496	0.0442	150.0	146.9	ug/L	-2	10	
Beryllium	0.0604	0.0578	150.0	147.5	ug/L	-2	10	
Cadmium	0.3334	0.2266	150.0	151.0	ug/L	1	10	
Calcium	0.0098	0.0088	15000	14980	ug/L	0	10	
Chromium	1.4929	1.0475	150.0	146.3	ug/L	-2	10	
Cobalt	1.5284	1.4041	150.0	143.1	ug/L	-5	10	
Copper	0.5177	0.3773	150.0	147.6	ug/L	-2	10	
Iron	0.0399	0.0349	15000	14930	ug/L	0	10	
Lead	0.4835	0.4601	150.0	146.2	ug/L	-3	10	
Magnesium	0.0510	0.0489	15000	14770	ug/L	-2	10	
Manganese	1.8374	1.5247	150.0	142.9	ug/L	-5	10	
Molybdenum	0.4127	0.4026	150.0	150.2	ug/L	0	10	
Nickel	0.4149	0.3090	150.0	147.9	ug/L	-1	10	
Potassium	0.4068	0.2930	15000	15070	ug/L	0	10	
Selenium	0.0287	0.0205	150.0	153.0	ug/L	2	10	
Silver	1.0912	1.0286	150.0	149.9	ug/L	0	10	
Sodium	0.5550	0.4899	15000	14650	ug/L	-2	10	
Thallium	0.3301	0.3434	150.0	149.9	ug/L	0	10	
Vanadium	1.2795	1.1846	150.0	144.5	ug/L	-4	10	
Zinc	0.5762	0.2341	150.0	148.7	ug/L	-1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	864072	-12.56
Scandium	562292	469597	-16.49
Germanium	180440	149631	-17.07
Indium	1368410	1083146	-20.85
Bismuth	1333700	1052352	-21.10

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449097 File : c2415097 Time : 25-MAR-2006 00:22
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3725	150.0	136.1	ug/L	-9	10	
Antimony	0.1269	0.0981	150.0	144.0	ug/L	-4	10	
Arsenic	0.2281	0.1963	150.0	147.7	ug/L	-2	10	
Barium	0.0496	0.0433	150.0	144.0	ug/L	-4	10	
Beryllium	0.0604	0.0564	150.0	143.9	ug/L	-4	10	
Cadmium	0.3334	0.2281	150.0	152.0	ug/L	1	10	
Calcium	0.0098	0.0087	15000	14830	ug/L	-1	10	
Chromium	1.4929	1.0532	150.0	147.1	ug/L	-2	10	
Cobalt	1.5284	1.4082	150.0	143.5	ug/L	-4	10	
Copper	0.5177	0.3704	150.0	144.9	ug/L	-3	10	
Iron	0.0399	0.0350	15000	14960	ug/L	0	10	
Lead	0.4835	0.4510	150.0	143.3	ug/L	-4	10	
Magnesium	0.0510	0.0470	15000	14210	ug/L	-5	10	
Manganese	1.8374	1.5455	150.0	144.9	ug/L	-3	10	
Molybdenum	0.4127	0.3955	150.0	147.6	ug/L	-2	10	
Nickel	0.4149	0.3040	150.0	145.5	ug/L	-3	10	
Potassium	0.4068	0.2874	15000	14780	ug/L	-1	10	
Selenium	0.0287	0.0202	150.0	150.8	ug/L	1	10	
Silver	1.0912	1.0216	150.0	148.8	ug/L	-1	10	
Sodium	0.5550	0.4786	15000	14310	ug/L	-5	10	
Thallium	0.3301	0.3353	150.0	146.3	ug/L	-2	10	
Vanadium	1.2795	1.1797	150.0	143.9	ug/L	-4	10	
Zinc	0.5762	0.2328	150.0	147.8	ug/L	-1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	850311	-13.95
Scandium	562292	475066	-15.51
Germanium	180440	150588	-16.54
Indium	1368410	1119011	-18.23
Bismuth	1333700	1086373	-18.54

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449107 File : c2415107 Time : 25-MAR-2006 01:18
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3939	150.0	144.0	ug/L	-4	10	
Antimony	0.1269	0.1003	150.0	147.3	ug/L	-2	10	
Arsenic	0.2281	0.1975	150.0	148.5	ug/L	-1	10	
Barium	0.0496	0.0443	150.0	147.4	ug/L	-2	10	
Beryllium	0.0604	0.0568	150.0	144.8	ug/L	-3	10	
Cadmium	0.3334	0.2281	150.0	151.9	ug/L	1	10	
Calcium	0.0098	0.0089	15000	15180	ug/L	1	10	
Chromium	1.4929	1.0646	150.0	148.7	ug/L	-1	10	
Cobalt	1.5284	1.4165	150.0	144.4	ug/L	-4	10	
Copper	0.5177	0.3741	150.0	146.3	ug/L	-2	10	
Iron	0.0399	0.0350	15000	14970	ug/L	0	10	
Lead	0.4835	0.4613	150.0	146.6	ug/L	-2	10	
Magnesium	0.0510	0.0486	15000	14680	ug/L	-2	10	
Manganese	1.8374	1.5548	150.0	145.7	ug/L	-3	10	
Molybdenum	0.4127	0.4007	150.0	149.5	ug/L	0	10	
Nickel	0.4149	0.3090	150.0	147.9	ug/L	-1	10	
Potassium	0.4068	0.2900	15000	14910	ug/L	-1	10	
Selenium	0.0287	0.0205	150.0	153.2	ug/L	2	10	
Silver	1.0912	1.0347	150.0	150.7	ug/L	0	10	
Sodium	0.5550	0.4900	15000	14650	ug/L	-2	10	
Thallium	0.3301	0.3535	150.0	154.3	ug/L	3	10	
Vanadium	1.2795	1.1929	150.0	145.5	ug/L	-3	10	
Zinc	0.5762	0.2366	150.0	150.3	ug/L	0	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	839407	-15.06
Scandium	562292	458026	-18.54
Germanium	180440	146831	-18.63
Indium	1368410	1077183	-21.28
Bismuth	1333700	1042410	-21.84

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449121 File : c2415121 Time : 25-MAR-2006 02:35
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3883	150.0	141.9	ug/L	-5	10	
Antimony	0.1269	0.1005	150.0	147.6	ug/L	-2	10	
Arsenic	0.2281	0.2013	150.0	151.4	ug/L	1	10	
Barium	0.0496	0.0444	150.0	147.6	ug/L	-2	10	
Beryllium	0.0604	0.0572	150.0	145.8	ug/L	-3	10	
Cadmium	0.3334	0.2289	150.0	152.4	ug/L	2	10	
Calcium	0.0098	0.0090	15000	15330	ug/L	2	10	
Chromium	1.4929	1.0671	150.0	149.0	ug/L	-1	10	
Cobalt	1.5284	1.4221	150.0	144.9	ug/L	-3	10	
Copper	0.5177	0.3755	150.0	146.9	ug/L	-2	10	
Iron	0.0399	0.0353	15000	15110	ug/L	1	10	
Lead	0.4835	0.4629	150.0	147.1	ug/L	-2	10	
Magnesium	0.0510	0.0490	15000	14810	ug/L	-1	10	
Manganese	1.8374	1.5638	150.0	146.6	ug/L	-2	10	
Molybdenum	0.4127	0.4017	150.0	149.9	ug/L	0	10	
Nickel	0.4149	0.3077	150.0	147.3	ug/L	-2	10	
Potassium	0.4068	0.2977	15000	15310	ug/L	2	10	
Selenium	0.0287	0.0208	150.0	155.6	ug/L	4	10	
Silver	1.0912	1.0362	150.0	151.0	ug/L	1	10	
Sodium	0.5550	0.4969	15000	14860	ug/L	-1	10	
Thallium	0.3301	0.3483	150.0	152.0	ug/L	1	10	
Vanadium	1.2795	1.2049	150.0	147.0	ug/L	-2	10	
Zinc	0.5762	0.2378	150.0	151.1	ug/L	1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	806356	-18.40
Scandium	562292	440073	-21.74
Germanium	180440	142136	-21.23
Indium	1368410	1039855	-24.01
Bismuth	1333700	1008839	-24.36

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449133 File : c2415133 Time : 25-MAR-2006 03:42
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.4002	150.0	146.3	ug/L	-2	10	
Antimony	0.1269	0.1023	150.0	150.3	ug/L	0	10	
Arsenic	0.2281	0.2028	150.0	152.5	ug/L	2	10	
Barium	0.0496	0.0449	150.0	149.4	ug/L	0	10	
Beryllium	0.0604	0.0581	150.0	148.2	ug/L	-1	10	
Cadmium	0.3334	0.2332	150.0	155.3	ug/L	4	10	
Calcium	0.0098	0.0091	15000	15600	ug/L	4	10	
Chromium	1.4929	1.0854	150.0	151.6	ug/L	1	10	
Cobalt	1.5284	1.4355	150.0	146.3	ug/L	-2	10	
Copper	0.5177	0.3813	150.0	149.2	ug/L	-1	10	
Iron	0.0399	0.0356	15000	15210	ug/L	1	10	
Lead	0.4835	0.4738	150.0	150.6	ug/L	0	10	
Magnesium	0.0510	0.0499	15000	15090	ug/L	1	10	
Manganese	1.8374	1.5904	150.0	149.1	ug/L	-1	10	
Molybdenum	0.4127	0.4100	150.0	153.0	ug/L	2	10	
Nickel	0.4149	0.3117	150.0	149.2	ug/L	-1	10	
Potassium	0.4068	0.2973	15000	15290	ug/L	2	10	
Selenium	0.0287	0.0209	150.0	156.3	ug/L	4	10	
Silver	1.0912	1.0499	150.0	153.0	ug/L	2	10	
Sodium	0.5550	0.4993	15000	14930	ug/L	0	10	
Thallium	0.3301	0.3542	150.0	154.6	ug/L	3	10	
Vanadium	1.2795	1.2217	150.0	149.0	ug/L	-1	10	
Zinc	0.5762	0.2396	150.0	152.2	ug/L	1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	813402	-17.69
Scandium	562292	443206	-21.18
Germanium	180440	140547	-22.11
Indium	1368410	1028681	-24.83
Bismuth	1333700	979894	-26.53

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449148 File : c2415148 Time : 25-MAR-2006 05:06
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3917	150.0	143.2	ug/L	-5	10	
Antimony	0.1269	0.0989	150.0	145.3	ug/L	-3	10	
Arsenic	0.2281	0.1986	150.0	149.4	ug/L	0	10	
Barium	0.0496	0.0436	150.0	144.8	ug/L	-3	10	
Beryllium	0.0604	0.0570	150.0	145.3	ug/L	-3	10	
Cadmium	0.3334	0.2187	150.0	145.6	ug/L	-3	10	
Calcium	0.0098	0.0089	15000	15150	ug/L	1	10	
Chromium	1.4929	1.0417	150.0	145.5	ug/L	-3	10	
Cobalt	1.5284	1.3878	150.0	141.4	ug/L	-6	10	
Copper	0.5177	0.3702	150.0	144.8	ug/L	-3	10	
Iron	0.0399	0.0343	15000	14670	ug/L	-2	10	
Lead	0.4835	0.4544	150.0	144.4	ug/L	-4	10	
Magnesium	0.0510	0.0482	15000	14580	ug/L	-3	10	
Manganese	1.8374	1.5022	150.0	140.8	ug/L	-6	10	
Molybdenum	0.4127	0.3937	150.0	146.9	ug/L	-2	10	
Nickel	0.4149	0.3045	150.0	145.8	ug/L	-3	10	
Potassium	0.4068	0.2967	15000	15260	ug/L	2	10	
Selenium	0.0287	0.0202	150.0	151.2	ug/L	1	10	
Silver	1.0912	1.0035	150.0	146.2	ug/L	-3	10	
Sodium	0.5550	0.4853	15000	14510	ug/L	-3	10	
Thallium	0.3301	0.3384	150.0	147.7	ug/L	-2	10	
Vanadium	1.2795	1.1779	150.0	143.7	ug/L	-4	10	
Zinc	0.5762	0.2275	150.0	144.4	ug/L	-4	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	898686	-9.06
Scandium	562292	474239	-15.66
Germanium	180440	147941	-18.01
Indium	1368410	1054434	-22.94
Bismuth	1333700	995910	-25.33

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449159 File : c2415159 Time : 25-MAR-2006 06:07
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3671	150.0	134.1	ug/L	**-11**	10	c- ***
Antimony	0.1269	0.0996	150.0	146.3	ug/L	-2	10	
Arsenic	0.2281	0.1981	150.0	149.0	ug/L	-1	10	
Barium	0.0496	0.0438	150.0	145.5	ug/L	-3	10	
Beryllium	0.0604	0.0577	150.0	147.1	ug/L	-2	10	
Cadmium	0.3334	0.2272	150.0	151.3	ug/L	1	10	
Calcium	0.0098	0.0086	15000	14640	ug/L	-2	10	
Chromium	1.4929	1.0198	150.0	142.4	ug/L	-5	10	
Cobalt	1.5284	1.3679	150.0	139.4	ug/L	-7	10	
Copper	0.5177	0.3644	150.0	142.5	ug/L	-5	10	
Iron	0.0399	0.0340	15000	14550	ug/L	-3	10	
Lead	0.4835	0.4497	150.0	142.9	ug/L	-5	10	
Magnesium	0.0510	0.0461	15000	13920	ug/L	-7	10	
Manganese	1.8374	1.5032	150.0	140.9	ug/L	-6	10	
Molybdenum	0.4127	0.4016	150.0	149.9	ug/L	0	10	
Nickel	0.4149	0.2968	150.0	142.1	ug/L	-5	10	
Potassium	0.4068	0.2839	15000	14600	ug/L	-3	10	
Selenium	0.0287	0.0204	150.0	152.9	ug/L	2	10	
Silver	1.0912	1.0218	150.0	148.9	ug/L	-1	10	
Sodium	0.5550	0.4623	15000	13820	ug/L	-8	10	
Thallium	0.3301	0.3353	150.0	146.3	ug/L	-2	10	
Vanadium	1.2795	1.1558	150.0	141.0	ug/L	-6	10	
Zinc	0.5762	0.2281	150.0	144.8	ug/L	-3	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	836473	-15.35
Scandium	562292	493671	-12.20
Germanium	180440	155900	-13.60
Indium	1368410	1140911	-16.63
Bismuth	1333700	1105121	-17.14

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449174 File : c2415174 Time : 25-MAR-2006 07:30
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3870	150.0	141.5	ug/L	-6	10	
Antimony	0.1269	0.0985	150.0	144.7	ug/L	-4	10	
Arsenic	0.2281	0.1978	150.0	148.8	ug/L	-1	10	
Barium	0.0496	0.0429	150.0	142.5	ug/L	-5	10	
Beryllium	0.0604	0.0570	150.0	145.5	ug/L	-3	10	
Cadmium	0.3334	0.2174	150.0	144.8	ug/L	-3	10	
Calcium	0.0098	0.0086	15000	14760	ug/L	-2	10	
Chromium	1.4929	1.0685	150.0	149.2	ug/L	-1	10	
Cobalt	1.5284	1.4105	150.0	143.7	ug/L	-4	10	
Copper	0.5177	0.3731	150.0	145.9	ug/L	-3	10	
Iron	0.0399	0.0347	15000	14830	ug/L	-1	10	
Lead	0.4835	0.4532	150.0	144.1	ug/L	-4	10	
Magnesium	0.0510	0.0478	15000	14460	ug/L	-4	10	
Manganese	1.8374	1.5356	150.0	143.9	ug/L	-4	10	
Molybdenum	0.4127	0.3941	150.0	147.1	ug/L	-2	10	
Nickel	0.4149	0.3076	150.0	147.3	ug/L	-2	10	
Potassium	0.4068	0.2871	15000	14760	ug/L	-2	10	
Selenium	0.0287	0.0200	150.0	149.5	ug/L	0	10	
Silver	1.0912	0.9902	150.0	144.3	ug/L	-4	10	
Sodium	0.5550	0.4764	15000	14240	ug/L	-5	10	
Thallium	0.3301	0.3207	150.0	140.0	ug/L	-7	10	
Vanadium	1.2795	1.2039	150.0	146.8	ug/L	-2	10	
Zinc	0.5762	0.2293	150.0	145.6	ug/L	-3	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	892339	-9.70
Scandium	562292	468084	-16.75
Germanium	180440	138839	-23.06
Indium	1368410	979740	-28.40
Bismuth	1333700	906100	-32.06

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449185 File : c2415185 Time : 25-MAR-2006 08:33
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3405	150.0	124.3	ug/L	**-17**	10	c- i+ ***
Antimony	0.1269	0.0964	150.0	141.6	ug/L	-6	10	
Arsenic	0.2281	0.1995	150.0	150.0	ug/L	0	10	
Barium	0.0496	0.0409	150.0	135.8	ug/L	-9	10	
Beryllium	0.0604	0.0601	150.0	153.4	ug/L	2	10	
Cadmium	0.3334	0.2280	150.0	151.9	ug/L	1	10	
Calcium	0.0098	0.0086	15000	14630	ug/L	-2	10	i+
Chromium	1.4929	1.1388	150.0	159.1	ug/L	6	10	
Cobalt	1.5284	1.4081	150.0	143.5	ug/L	-4	10	
Copper	0.5177	0.3658	150.0	143.1	ug/L	-5	10	
Iron	0.0399	0.0347	15000	14830	ug/L	-1	10	
Lead	0.4835	0.4466	150.0	141.9	ug/L	-5	10	
Magnesium	0.0510	0.0410	15000	12400	ug/L	**-17**	10	c- i+ ***
Manganese	1.8374	1.6208	150.0	151.9	ug/L	1	10	
Molybdenum	0.4127	0.4100	150.0	153.0	ug/L	2	10	
Nickel	0.4149	0.2971	150.0	142.2	ug/L	-5	10	
Potassium	0.4068	0.2821	15000	14510	ug/L	-3	10	i+
Selenium	0.0287	0.0207	150.0	154.7	ug/L	3	10	
Silver	1.0912	1.0584	150.0	154.2	ug/L	3	10	
Sodium	0.5550	0.3972	15000	11880	ug/L	**-21**	10	c- i+ ***
Thallium	0.3301	0.3256	150.0	142.1	ug/L	-5	10	
Vanadium	1.2795	1.3269	150.0	161.9	ug/L	8	10	
Zinc	0.5762	0.2281	150.0	144.8	ug/L	-3	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	1069484	8.23
Scandium	562292	756141	**34.47 ***
Germanium	180440	185899	3.03
Indium	1368410	1355459	-0.95
Bismuth	1333700	1186577	-11.03

+=high bias -=low bias c=CCV i=ISTD failure

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449012 File : c2415012 Time : 24-MAR-2006 16:30
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	0.2605	0.2500	0.03394	ug/L	ib ***
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	[0.04645]	0.2500	0.04566	ug/L	!ib
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.02192]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.07448]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	[0.2087]	1.000	0.09577	ug/L	!ib

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	969137	-1.93
Scandium	562292	523398	-6.92
Germanium	180440	172708	-4.29
Indium	1368410	1267032	-7.41
Bismuth	1333700	1243505	-6.76

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449041 File : c2415041 Time : 24-MAR-2006 19:11
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1722]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	[0.04493]	0.5000	0.04426	ug/L	!ib
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.08621]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	942974	-4.58
Scandium	562292	497013	-11.61
Germanium	180440	160729	-10.92
Indium	1368410	1193739	-12.76
Bismuth	1333700	1163252	-12.78

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449055 File : c2415055 Time : 24-MAR-2006 20:29
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1501]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.03973]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	948372	-4.03
Scandium	562292	501028	-10.90
Germanium	180440	161896	-10.28
Indium	1368410	1226800	-10.35
Bismuth	1333700	1216616	-8.78

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449071 File : c2415071 Time : 24-MAR-2006 21:57
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1124]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.2096]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2627]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1469]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	892991	-9.63
Scandium	562292	474552	-15.60
Germanium	180440	152380	-15.55
Indium	1368410	1132829	-17.22
Bismuth	1333700	1123713	-15.74

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449085 File : c2415085 Time : 24-MAR-2006 23:15
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.09912]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1488]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1119]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	872491	-11.71
Scandium	562292	466362	-17.06
Germanium	180440	149948	-16.90
Indium	1368410	1134348	-17.10
Bismuth	1333700	1121464	-15.91

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449099 File : c2415099 Time : 25-MAR-2006 00:34
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1144]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.05505]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	839745	-15.02
Scandium	562292	456637	-18.79
Germanium	180440	148479	-17.71
Indium	1368410	1142762	-16.49
Bismuth	1333700	1144155	-14.21

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449109 File : c2415109 Time : 25-MAR-2006 01:29
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1195]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1052]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.007220]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.01906]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2311]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	841646	-14.83
Scandium	562292	456716	-18.78
Germanium	180440	146645	-18.73
Indium	1368410	1137654	-16.86
Bismuth	1333700	1126462	-15.54

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449123 File : c2415123 Time : 25-MAR-2006 02:46
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1115]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.008805]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.03841]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1190]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	830886	-15.92
Scandium	562292	449947	-19.98
Germanium	180440	144623	-19.85
Indium	1368410	1113418	-18.63
Bismuth	1333700	1102799	-17.31

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449135 File : c2415135 Time : 25-MAR-2006 03:53
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1473]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1323]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01136]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.06042]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2067]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.07285]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	841360	-14.86
Scandium	562292	445097	-20.84
Germanium	180440	143634	-20.40
Indium	1368410	1086631	-20.59
Bismuth	1333700	1083950	-18.73

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449150 File : c2415150 Time : 25-MAR-2006 05:17
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.07915]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.007527]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.03594]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.01483]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.05427]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	928026	-6.09
Scandium	562292	470981	-16.24
Germanium	180440	147653	-18.17
Indium	1368410	1106829	-19.12
Bismuth	1333700	1054733	-20.92

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449161 File : c2415161 Time : 25-MAR-2006 06:18
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.08556]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.01170]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.009293]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.02352]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.04556]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	838678	-15.13
Scandium	562292	505026	-10.18
Germanium	180440	161662	-10.41
Indium	1368410	1282761	-6.26
Bismuth	1333700	1249274	-6.33

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449176 File : c2415176 Time : 25-MAR-2006 07:41
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.09663]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.2578]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.008511]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.1183]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.04145]	0.2500	0.03982	ug/L	!ib
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2884]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.04804]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	877911	-11.16
Scandium	562292	451821	-19.65
Germanium	180440	137616	-23.73
Indium	1368410	1006582	-26.44
Bismuth	1333700	945762	-29.09

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449187 File : c2415187 Time : 25-MAR-2006 08:44
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.07775]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.006321]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.02567]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.03935]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	867621	-12.20
Scandium	562292	468086	-16.75
Germanium	180440	141351	-21.66
Indium	1368410	1068398	-21.92
Bismuth	1333700	1040296	-22.00

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CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449013 File : c2415013 Time : 24-MAR-2006 16:36
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.628	0.2500	ug/L	
Arsenic	0.6180	0.5000	ug/L	
Barium	0.9755	0.2500	ug/L	
Beryllium	[0.02031]	0.2500	ug/L	
Cadmium	[0.2247]	0.2500	ug/L	
Chromium	1.583	0.5000	ug/L	
Cobalt	2.963	0.2500	ug/L	
Copper	1.898	0.5000	ug/L	
Lead	1.286	0.2500	ug/L	
Manganese	1.091	0.2500	ug/L	
Nickel	1.635	0.2500	ug/L	
Selenium	[0.3064]	0.5000	ug/L	
Silver	[0.1484]	0.2500	ug/L	
Thallium	[0.1047]	0.5000	ug/L	
Vanadium	[0.1847]	1.000	ug/L	
Zinc	2.174	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	85760	ug/L	86
Calcium	300000	291300	ug/L	97
Iron	250000	262300	ug/L	105
Magnesium	100000	90810	ug/L	91
Molybdenum	2000	2215	ug/L	111
Potassium	100000	91870	ug/L	92
Sodium	250000	229400	ug/L	92

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	779542	-21.11
Scandium	562292	491304	-12.62
Germanium	180440	146225	-18.96
Indium	1368410	1095335	-19.96
Bismuth	1333700	938748	-29.61

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449014 File : c2415014 Time : 24-MAR-2006 16:41
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	81420	ug/L	-19		
Arsenic	100.0	95.70	ug/L	-4	20	
Cadmium	100.0	91.22	ug/L	-9	20	
Calcium	300000	290600	ug/L	-3		
Chromium	200.0	217.6	ug/L	9	20	
Cobalt	200.0	209.5	ug/L	5	20	
Copper	200.0	181.4	ug/L	-9	20	
Iron	250000	263500	ug/L	5		
Magnesium	100000	86490	ug/L	-14		
Manganese	200.0	222.3	ug/L	11	20	
Molybdenum	2000	2189	ug/L	9		
Nickel	200.0	192.6	ug/L	-4	20	
Potassium	100000	89750	ug/L	-10		
Selenium	100.0	87.46	ug/L	-13	20	
Silver	50.00	47.12	ug/L	-6	20	
Sodium	250000	220400	ug/L	-12		
Vanadium	200.0	227.4	ug/L	14	20	
Zinc	100.0	90.57	ug/L	-9	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	491567	-12.58
Germanium	180440	144551	-19.89

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449056 File : c2415056 Time : 24-MAR-2006 20:34
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.333	0.2500	ug/L	
Arsenic	0.7648	0.5000	ug/L	
Barium	0.9834	0.2500	ug/L	
Beryllium	[0.01236]	0.2500	ug/L	
Cadmium	[0.1918]	0.2500	ug/L	
Chromium	1.467	0.5000	ug/L	
Cobalt	2.837	0.2500	ug/L	
Copper	1.800	0.5000	ug/L	
Lead	1.307	0.2500	ug/L	
Manganese	1.013	0.2500	ug/L	
Nickel	1.565	0.2500	ug/L	
Selenium	[0.1911]	0.5000	ug/L	
Silver	[0.1340]	0.2500	ug/L	
Thallium	[0.06724]	0.5000	ug/L	
Vanadium	[0.1649]	1.000	ug/L	
Zinc	2.011	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	85760	ug/L	86
Calcium	300000	284700	ug/L	95
Iron	250000	247600	ug/L	99
Magnesium	100000	90640	ug/L	91
Molybdenum	2000	2176	ug/L	109
Potassium	100000	92900	ug/L	93
Sodium	250000	226200	ug/L	90

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	754441	-23.65
Scandium	562292	444889	-20.88
Germanium	180440	133804	-25.85
Indium	1368410	996236	-27.20
Bismuth	1333700	855786	-35.83

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449057 File : c2415057 Time : 24-MAR-2006 20:40
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	81230	ug/L	-19		
Arsenic	100.0	91.39	ug/L	-9	20	
Cadmium	100.0	86.66	ug/L	-13	20	
Calcium	300000	279400	ug/L	-7		
Chromium	200.0	200.7	ug/L	0	20	
Cobalt	200.0	187.8	ug/L	-6	20	
Copper	200.0	171.1	ug/L	-14	20	
Iron	250000	244000	ug/L	-2		
Magnesium	100000	85230	ug/L	-15		
Manganese	200.0	206.9	ug/L	3	20	
Molybdenum	2000	2126	ug/L	6		
Nickel	200.0	181.6	ug/L	-9	20	
Potassium	100000	88390	ug/L	-12		
Selenium	100.0	85.02	ug/L	-15	20	
Silver	50.00	44.61	ug/L	-11	20	
Sodium	250000	216700	ug/L	-13		
Vanadium	200.0	201.6	ug/L	1	20	
Zinc	100.0	85.22	ug/L	-15	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	446714	-20.55
Germanium	180440	133306	-26.12

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449137 File : c2415137 Time : 25-MAR-2006 04:05
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.347	0.2500	ug/L	
Arsenic	[0.3882]	0.5000	ug/L	
Barium	1.062	0.2500	ug/L	
Beryllium	[0.01946]	0.2500	ug/L	
Cadmium	[0.08500]	0.2500	ug/L	
Chromium	1.613	0.5000	ug/L	
Cobalt	2.924	0.2500	ug/L	
Copper	1.893	0.5000	ug/L	
Lead	1.282	0.2500	ug/L	
Manganese	1.061	0.2500	ug/L	
Nickel	1.579	0.2500	ug/L	
Selenium	[0.2680]	0.5000	ug/L	
Silver	[0.1405]	0.2500	ug/L	
Thallium	[0.1109]	0.5000	ug/L	
Vanadium	[0.2904]	1.000	ug/L	
Zinc	2.062	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	84650	ug/L	85
Calcium	300000	290700	ug/L	97
Iron	250000	248700	ug/L	99
Magnesium	100000	89140	ug/L	89
Molybdenum	2000	2186	ug/L	109
Potassium	100000	93300	ug/L	93
Sodium	250000	223400	ug/L.	89

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	674836	-31.71
Scandium	562292	406723	-27.67
Germanium	180440	121976	-32.40
Indium	1368410	887703	-35.13
Bismuth	1333700	772371	-42.09

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449138 File : c2415138 Time : 25-MAR-2006 04:10
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	83500	ug/L	-17		
Arsenic	100.0	93.87	ug/L	-6	20	
Cadmium	100.0	86.67	ug/L	-13	20	
Calcium	300000	289100	ug/L	-4		
Chromium	200.0	203.9	ug/L	2	20	
Cobalt	200.0	190.0	ug/L	-5	20	
Copper	200.0	174.2	ug/L	-13	20	
Iron	250000	246800	ug/L	-1		
Magnesium	100000	87450	ug/L	-13		
Manganese	200.0	203.0	ug/L	2	20	
Molybdenum	2000	2178	ug/L	9		
Nickel	200.0	183.6	ug/L	-8	20	
Potassium	100000	93050	ug/L	-7		
Selenium	100.0	87.45	ug/L	-13	20	
Silver	50.00	44.81	ug/L	-10	20	
Sodium	250000	221000	ug/L	-12		
Vanadium	200.0	205.7	ug/L	3	20	
Zinc	100.0	88.10	ug/L	-12	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	397591	-29.29
Germanium	180440	118801	-34.16

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449162 File : c2415162 Time : 25-MAR-2006 06:24
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.433	0.2500	ug/L	
Arsenic	[0.4828]	0.5000	ug/L	
Barium	1.070	0.2500	ug/L	
Beryllium	[0.005177]	0.2500	ug/L	
Cadmium	[0.1791]	0.2500	ug/L	
Chromium	1.576	0.5000	ug/L	
Cobalt	2.864	0.2500	ug/L	
Copper	1.852	0.5000	ug/L	
Lead	1.309	0.2500	ug/L	
Manganese	1.049	0.2500	ug/L	
Nickel	1.557	0.2500	ug/L	
Selenium	[0]	0.5000	ug/L	
Silver	[0.1414]	0.2500	ug/L	
Thallium	[0.07787]	0.5000	ug/L	
Vanadium	[0.2272]	1.000	ug/L	
Zinc	1.947	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	89740	ug/L	90
Calcium	300000	301200	ug/L	100
Iron	250000	249800	ug/L	100
Magnesium	100000	93590	ug/L	94
Molybdenum	2000	2269	ug/L	113
Potassium	100000	98320	ug/L	98
Sodium	250000	231700	ug/L	93

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	699133	-29.25
Scandium	562292	407378	-27.55
Germanium	180440	123996	-31.28
Indium	1368410	865103	-36.78
Bismuth	1333700	757128	-43.23

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449163 File : c2415163 Time : 25-MAR-2006 06:29
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	88210	ug/L	-12		
Arsenic	100.0	96.77	ug/L	-3	20	
Cadmium	100.0	87.72	ug/L	-12	20	
Calcium	300000	300000	ug/L	0		
Chromium	200.0	208.2	ug/L	4	20	
Cobalt	200.0	196.1	ug/L	-2	20	
Copper	200.0	178.7	ug/L	-11	20	
Iron	250000	252100	ug/L	1		
Magnesium	100000	92600	ug/L	-7		
Manganese	200.0	203.3	ug/L	2	20	
Molybdenum	2000	2250	ug/L	13		
Nickel	200.0	188.9	ug/L	-6	20	
Potassium	100000	97250	ug/L	-3		
Selenium	100.0	90.51	ug/L	-9	20	
Silver	50.00	45.85	ug/L	-8	20	
Sodium	250000	229300	ug/L	-8		
Vanadium	200.0	210.6	ug/L	5	20	
Zinc	100.0	89.56	ug/L	-10	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	392361	-30.22
Germanium	180440	117744	-34.75

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449188 File : c2415188 Time : 25-MAR-2006 08:49
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.452	0.2500	ug/L	
Arsenic	[0.4067]	0.5000	ug/L	
Barium	0.9738	0.2500	ug/L	
Beryllium	[0.01078]	0.2500	ug/L	
Cadmium	[0.09223]	0.2500	ug/L	
Chromium	6.008	0.5000	ug/L	
Cobalt	2.928	0.2500	ug/L	
Copper	1.744	0.5000	ug/L	
Lead	1.288	0.2500	ug/L	
Manganese	1.046	0.2500	ug/L	
Nickel	1.640	0.2500	ug/L	
Selenium	[0.3177]	0.5000	ug/L	
Silver	[0.1392]	0.2500	ug/L	
Thallium	[0.06780]	0.5000	ug/L	
Vanadium	1.467	1.000	ug/L	
Zinc	2.024	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	88210	ug/L	88
Calcium	300000	299100	ug/L	100
Iron	250000	253400	ug/L	101
Magnesium	100000	92340	ug/L	92
Molybdenum	2000	2198	ug/L	110
Potassium	100000	96490	ug/L	96
Sodium	250000	231900	ug/L	93

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	692065	-29.97
Scandium	562292	386620	-31.24
Germanium	180440	109304	-39.42
Indium	1368410	745623	-45.51
Bismuth	1333700	635742	-52.33

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449189 File : c2415189 Time : 25-MAR-2006 08:55
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	83800	ug/L	-16		
Arsenic	100.0	92.87	ug/L	-7	20	
Cadmium	100.0	83.91	ug/L	-16	20	
Calcium	300000	288700	ug/L	-4		
Chromium	200.0	199.4	ug/L	0	20	
Cobalt	200.0	185.5	ug/L	-7	20	
Copper	200.0	172.5	ug/L	-14	20	
Iron	250000	237100	ug/L	-5		
Magnesium	100000	88510	ug/L	-11		
Manganese	200.0	192.1	ug/L	-4	20	
Molybdenum	2000	2179	ug/L	9		
Nickel	200.0	181.3	ug/L	-9	20	
Potassium	100000	95070	ug/L	-5		
Selenium	100.0	86.14	ug/L	-14	20	
Silver	50.00	44.07	ug/L	-12	20	
Sodium	250000	218500	ug/L	-13		
Vanadium	200.0	201.1	ug/L	1	20	
Zinc	100.0	85.66	ug/L	-14	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	374467	-33.40
Germanium	180440	109542	-39.29

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

equence Date: 24-MAR-2006
Sequence: 56120449 (c2415)
nstrument ID: MET05

ICALBLK Filename: c2415003
Date Analyzed: 24-MAR-2006
Time Analyzed: 15:41

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD	988200	562292	180440	1368410	1333700	2209951
LOWER LIMIT	296460	168688	54132	410523	400110	662985
UPPER LIMIT	1185840	674751	216528	1642092	1600440	2651941

TYPE	SAMPLE	#					
ICB		012	969137	523398	172708	1267032	1243505	2044909
ICSA		013	779542	491304	146225	1095335	938748	1884957
BLANK	QC332055	017	933067	541233	170988	1308727	1286688	2105243
BS	QC332056	018	897053	488852	154003	1104449	1037053	1781347
MSS	185457-016	020	819406	482531	141807	1030667	900572	1765286
SER	QC332060	021	936674	522697	165046	1193875	1135870	2009167
MSS	185457-016	022	972773	540838	172188	1259288	1198188	2057726
SER	QC332060	023	1001688	538308	173595	1273316	1243303	2040529
CCV		024	974542	535254	170147	1196955	1140941	1953272
CCB		026	980518	523143	167279	1239501	1206515	1978534
MSS	185457-016	027	806947	461082	138153	997944	862388	1715177
MS	QC332058	028	826277	474200	140445	992258	872644	1716779
MSD	QC332059	029	805980	471418	137778	993201	870711	1722383
PDS	QC332061	030	821766	471081	136868	982461	847810	1690964
MS	QC332058	031	957831	515238	167168	1211204	1164650	1958101
MSD	QC332059	032	969156	521671	167835	1222229	1164139	1964258
PDS	QC332061	033	952804	517857	166433	1203865	1172058	1960401
BSD	QC332057	035	933562	484101	150456	1065375	995106	1724214
SAMPLE	185457-001	036	819884	451233	138146	983996	884557	1652640
SAMPLE	185457-002	037	895816	484359	146671	1063074	956973	1777156
CCV		039	953180	509681	163182	1155967	1119152	1914650
CCB		041	942974	497013	160729	1193739	1163252	1873462
SAMPLE	185457-005	042	806019	437862	124970	841256	747042	1495271
SAMPLE	185457-006	043	868741	454569	129494	890825	773937	1527506
SAMPLE	185457-007	044	874780	457021	134590	956278	829011	1564727
SAMPLE	185457-008	045	867298	452567	133313	938923	819560	1557071

= Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

equence Date: 24-MAR-2006 ICALBLK Filename: c2415003
Sequence: 56120449 (c2415) Date Analyzed: 24-MAR-2006
nstrument ID: MET05 Time Analyzed: 15:41

YPE	SAMPLE	#						
AMPLE	185457-001	046	983059	527842	167721	1252890	1206212	2000194
AMPLE	185457-002	047	992755	517129	165457	1223679	1185281	1966397
AMPLE	185457-005	048	969374	513081	163668	1198046	1153775	1947077
AMPLE	185457-006	049	976815	507042	162749	1185074	1148658	1944004
AMPLE	185457-007	050	944914	495280	160109	1184926	1158760	1906340
AMPLE	185457-008	051	962775	502014	162041	1208567	1178110	1934641
CV		053	938741	499396	159991	1139949	1112291	1894655
CB		055	948372	501028	161896	1226800	1216616	1962262
CSA		056	754441	444889	133804	996236	855786	1688332
LANK	QC331831	060	887221	482077	154230	1177455	1164861	1857360
S	QC331832	061	876773	464330	145417	1051301	994238	1682322
SD	QC331833	062	861659	464521	145047	1051915	995756	1681989
SS	185408-008	064	853151	464363	142451	1050691	994561	1683203
ER	QC331838	065	881915	471430	151282	1126374	1129253	1816009
S	QC331836	066	822095	441946	138016	984556	943918	1614616
SD	QC331837	067	822840	449326	139344	997096	944252	1634199
CV		069	867540	477594	152734	1090823	1069936	1793122
CB		071	892991	474552	152380	1132829	1123713	1801393
DS	QC331839	073	821562	448903	137575	984025	903300	1587489
SS	185408-010	074	828272	445228	139365	1018084	941147	1653171
S	QC331834	075	793752	442179	137015	990889	921313	1652132
SD	QC331835	076	804277	441422	136827	996343	925088	1657566
SS	185408-008	077	862998	471269	151144	1147421	1140857	1835833
ER	QC331838	078	872665	465123	150431	1144231	1142246	1828186
S	QC331836	079	878168	467273	150447	1143427	1120530	1803292
SD	QC331837	080	885873	466337	150048	1122809	1128941	1815370
DS	QC331839	081	876342	471766	152091	1151606	1142680	1842286
CV		083	864072	469597	149631	1083146	1052352	1762150
CB		085	872491	466362	149948	1134348	1121464	1786827
SS	185408-010	086	862140	464602	150047	1119899	1110489	1790612
S	QC331834	087	870795	464299	150027	1138492	1115658	1798186
SD	QC331835	088	870914	465487	150382	1135587	1128329	1808531

= Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

equence Date: 24-MAR-2006
Sequence: 56120449 (c2415)
nstrument ID: MET05

ICALBLK Filename: c2415003
Date Analyzed: 24-MAR-2006
Time Analyzed: 15:41

YPE	SAMPLE	#						
AMPLE	185408-006	089	779910	434417	134605	1000537	937490	1673153
AMPLE	185408-007	090	778389	436320	135509	1011547	967045	1680540
AMPLE	185408-009	091	792816	445703	138222	1062007	1040861	1765889
AMPLE	185408-011	092	746313	439046	136117	1052751	1007617	1778780
AMPLE	185408-006	093	804469	479062	152131	1214168	1224563	1988922
AMPLE	185408-007	094	814321	478859	152621	1216094	1217743	1992688
AMPLE	185408-009	095	807417	471113	149594	1202599	1210871	1972224
CV		097	850311	475066	150588	1119011	1086373	1851792
CB		099	839745	456637	148479	1142762	1144155	1848352
AMPLE	185408-011	100	815768	458486	148813	1155942	1139220	1851356
AMPLE	185463-001	101	757363	425854	135127	1041515	1030825	1710206
AMPLE	185463-001	102	797634	457489	147108	1164342	1183790	1901204
LANK	QC331981	104	802593	457467	146054	1159678	1170443	1890366
S	QC331982	105	788112	430226	136577	1002517	976562	1654540
SD	QC331983	106	817709	434809	137135	1018464	964466	1655119
CV		107	839407	458026	146831	1077183	1042410	1762605
CB		109	841646	456716	146645	1137654	1126462	1813376
SS	185408-002	110	726140	416296	125819	924997	844072	1585680
ER	QC331986	111	795657	447318	142353	1092646	1059218	1791620
S	QC331984	112	721020	417512	124987	932106	835838	1585923
SD	QC331985	113	729081	422214	126492	943589	843430	1608086
DS	QC331987	114	732944	421383	125876	941699	837344	1582769
SS	185408-002	115	821297	459594	146709	1134817	1121528	1815054
ER	QC331986	116	802150	454932	146103	1154993	1146332	1857097
S	QC331984	117	834463	457260	146268	1124000	1102511	1795529
SD	QC331985	118	821924	446850	144312	1095886	1083850	1765997
DS	QC331987	119	827809	454117	144977	1098643	1077590	1760144
CV		121	806356	440073	142136	1039855	1008839	1706144
CB		123	830886	449947	144623	1113418	1102799	1771621
AMPLE	185408-001	124	709028	417409	127520	979206	893168	1638904
AMPLE	185408-003	125	701819	423482	128463	1001801	915296	1711931
AMPLE	185408-004	126	733003	414004	126424	953265	870120	1587071

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= Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

equence Date: 24-MAR-2006 ICALBLK Filename: c2415003
Sequence: 56120449 (c2415) Date Analyzed: 24-MAR-2006
nstrument ID: MET05 Time Analyzed: 15:41

TYPE	SAMPLE	#						
SAMPLE	185408-005	127	739588	410428	124955	934629	848657	1545016
SAMPLE	185408-001	128	822966	448691	144346	1110968	1103256	1774551
SAMPLE	185408-003	129	811888	443553	142886	1100351	1082951	1766579
SAMPLE	185408-004	130	786395	431762	137826	1041526	1040155	1673719
SAMPLE	185408-005	131	828836	452710	144081	1094699	1080384	1759164
CCV		133	813402	443206	140547	1028681	979894	1681265
CCB		135	841360	445097	143634	1086631	1083950	1738890
ICSA		137	674836	406723	121976	887703	772371	1536515
SAMPLE	185511-001	140	758925	428789	128973	951252	851467	1556345
SAMPLE	185511-002	141	774019	443609	132850	1007662	915326	1670631
SAMPLE	185511-009	142	775011	435018	127055	919088	800522	1517413
SAMPLE	185511-010	143	809101	433561	128827	909109	808592	1500044
SAMPLE	185511-011	144	834344	444979	134791	987084	888617	1598726
SAMPLE	185511-012	145	879524	454859	139927	1050074	1003783	1625874
SAMPLE	185511-013	146	889604	448738	139482	1047780	977452	1630266
CCV		148	898686	474239	147941	1054434	995910	1697276
CCB		150	928026	470981	147653	1106829	1054733	1695829
SAMPLE	185511-001	151	914571	468593	147785	1095844	1048000	1695234
SAMPLE	185511-002	152	898120	465039	146805	1081241	1031908	1681694
SAMPLE	185511-009	153	892820	477480	148386	1104241	1056783	1743078
SAMPLE	185511-010	154	870000	449027	142702	1061851	1016986	1643022
SAMPLE	185511-011	155	893272	463183	146295	1080807	1049763	1712058
SAMPLE	185511-012	156	845198	439973	139813	1034738	1013321	1637294
SAMPLE	185511-013	157	859140	482603	155303	1210884	1197044	1922512
CCV		159	836473	493671	155900	1140911	1105121	1864226
CCB		161	838678	505026	161662	1282761	1249274	2030082
ICSA		162	699133	407378	123996	865103	757128	1506762
SAMPLE	185586-001	165	771774	402916	112089	748614	641049	1285182
SAMPLE	185586-002	166	819412	416153	116812	770036	678518	1285819
SAMPLE	185586-003	167	804969	418760	119801	806652	731128	1384785
SAMPLE	185586-018	168	774275	410904	116904	787970	703842	1336567
SAMPLE	185586-019	169	827801	431607	125902	859952	772891	1461643

= Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

equence Date: 24-MAR-2006
Sequence: 56120449 (c2415)
nstrument ID: MET05

ICALBLK Filename: c2415003
Date Analyzed: 24-MAR-2006
Time Analyzed: 15:41

YPE	SAMPLE	#						
AMPLE	185586-020	170	825135	428246	121478	799779	712619	1377815
AMPLE	185586-021	171	843481	425377	124694	821892	761419	1398218
AMPLE	185586-022	172	803525	425996	122775	827060	767913	1434556
CV		174	892339	468084	138839	979740	906100	1564977
CB		176	877911	451821	137616	1006582	945762	1555180
AMPLE	185586-023	177	862123	410613	122842	822762	772588	1357276
AMPLE	185586-024	178	742583	416797	124875	900069	833040	1506763
AMPLE	185586-025	179	689219	413677	125880	978651	901403	1635791
AMPLE	185586-026	180	698318	397434	122510	958796	909958	1617639
AMPLE	185586-001	181	741263	417299	134961	1083737	1102542	1781481
AMPLE	185586-002	182	737925	451771	142841	1149286	1148213	1865982
AMPLE	185586-003	183	786967	441082	138181	1072986	1058515	1708180
AMPLE	185586-018	184	777445	448020	140428	1114324	1096072	1793461
CV		185	1069484	756141*	185899	1355459	1186577	2005822
CB		187	867621	468086	141351	1068398	1040296	1678665
CSA		188	692065	386620	109304	745623	635742	1283214

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= Outside QC Limits

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	c2415001	TUN				24-MAR-2006 15:29	1.0	1.0				1	
003	c2415003	ICALBLK	std-blk			24-MAR-2006 15:41	1.0	1.0				2	
004	c2415004	ICAL	CS1			24-MAR-2006 15:46	1.0	1.0				3	
005	c2415005	ICAL	CS2			24-MAR-2006 15:52	1.0	1.0				4	
006	c2415006	ICAL	CS3			24-MAR-2006 15:57	1.0	1.0				5	
007	c2415007	ICAL	CS4			24-MAR-2006 16:03	1.0	1.0				6	
008	c2415008	ICAL	CS5			24-MAR-2006 16:09	1.0	1.0				7	
009	c2415009	ICAL	CS6			24-MAR-2006 16:14	1.0	1.0				8	
010	c2415010	ICV				24-MAR-2006 16:19	1.0	1.0			1	9	
012	c2415012	ICB				24-MAR-2006 16:30	1.0	1.0	1		1	2	
013	c2415013	ICSA				24-MAR-2006 16:36	1.0	1.0			1	10 2	7:CA=291300
014	c2415014	ICSAB				24-MAR-2006 16:41	1.0	1.0			1	11 2	11:CA=290600
017	c2415017	BLANK	QC332055	111436	Filtra	24-MAR-2006 16:58	1.0	1.0			1	2	
018	c2415018	BS	QC332056	111436	Filtra	24-MAR-2006 17:03	1.0	1.0			1	2	
019	c2415019	X	QC332057	111436	Filtra	24-MAR-2006 17:09	1.0	1.0			1	2	
020	c2415020	MSS	185457-016	111436	Filtra	24-MAR-2006 17:14	1.0	1.0	5		1	2	4:MG=237800
021	c2415021	SER	QC332060	111436	Filtra	24-MAR-2006 17:20	5.0	1.0		2	1	2	2:MG=49680.0
022	c2415022	MSS	185457-016	111436	Filtra	24-MAR-2006 17:26	20.0	1.0			1	2	
023	c2415023	SER	QC332060	111436	Filtra	24-MAR-2006 17:31	100.0	1.0		1	1	2	
024	c2415024	CCV				24-MAR-2006 17:37	1.0	1.0			1	12 2	
026	c2415026	CCB				24-MAR-2006 17:48	1.0	1.0			1	2	
027	c2415027	MSS	185457-016	111436	Filtra	24-MAR-2006 17:53	1.0	1.0	4		1	2	4:MG=242900
028	c2415028	MS	QC332058	111436	Filtra	24-MAR-2006 17:59	1.0	1.0	1		1	2	4:MG=244700
029	c2415029	MSD	QC332059	111436	Filtra	24-MAR-2006 18:04	1.0	1.0	1		1	2	4:MG=244400
030	c2415030	PDS	QC332061	111436	Filtra	24-MAR-2006 18:10	1.0	1.0			1	13 2	4:MG=254800
031	c2415031	MS	QC332058	111436	Filtra	24-MAR-2006 18:15	20.0	1.0	1	1	1	2	
032	c2415032	MSD	QC332059	111436	Filtra	24-MAR-2006 18:21	20.0	1.0		1	1	2	
033	c2415033	PDS	QC332061	111436	Filtra	24-MAR-2006 18:26	20.0	1.0		1	1	13 2	
035	c2415035	BSD	QC332057	111436	Filtra	24-MAR-2006 18:38	1.0	1.0			1	2	
036	c2415036	SAMPLE	185457-001	111436	Filtra	24-MAR-2006 18:43	1.0	1.0	4		1	2	3:NA=96550.0
037	c2415037	SAMPLE	185457-002	111436	Filtra	24-MAR-2006 18:49	1.0	1.0	2		1	2	2:NA=99150.0

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [illegible] Date: 3/28/6

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
039	c2415039	CCV				24-MAR-2006 19:00	1.0	1.0			1	12 2	
041	c2415041	CCB				24-MAR-2006 19:11	1.0	1.0			1	2	
042	c2415042	SAMPLE	185457-005	111436	Filtra	24-MAR-2006 19:16	1.0	1.0	3		1	2	3:MG=277200
043	c2415043	SAMPLE	185457-006	111436	Filtra	24-MAR-2006 19:22	1.0	1.0	5		1	2	5:MG=317500
044	c2415044	SAMPLE	185457-007	111436	Filtra	24-MAR-2006 19:27	1.0	1.0	2		1	2	2:MG=117600
045	c2415045	SAMPLE	185457-008	111436	Filtra	24-MAR-2006 19:33	1.0	1.0	2		1	2	2:MG=139900
046	c2415046	SAMPLE	185457-001	111436	Filtra	24-MAR-2006 19:39	20.0	1.0			1	2	
047	c2415047	SAMPLE	185457-002	111436	Filtra	24-MAR-2006 19:44	20.0	1.0			1	2	
048	c2415048	SAMPLE	185457-005	111436	Filtra	24-MAR-2006 19:50	20.0	1.0			1	2	
049	c2415049	SAMPLE	185457-006	111436	Filtra	24-MAR-2006 19:55	20.0	1.0			1	2	
050	c2415050	SAMPLE	185457-007	111436	Filtra	24-MAR-2006 20:01	20.0	1.0			1	2	
051	c2415051	SAMPLE	185457-008	111436	Filtra	24-MAR-2006 20:07	20.0	1.0			1	2	
053	c2415053	CCV				24-MAR-2006 20:18	1.0	1.0			1	12 2	
055	c2415055	CCB				24-MAR-2006 20:29	1.0	1.0			1	2	
056	c2415056	ICSA				24-MAR-2006 20:34	1.0	1.0			1	10 2	7:CA=284700
057	c2415057	ICSAB				24-MAR-2006 20:40	1.0	1.0			1	11 2	10:CA=279400
060	c2415060	BLANK	QC331831	111388	Filtra	24-MAR-2006 20:56	1.0	1.0			1	2	
061	c2415061	BS	QC331832	111388	Filtra	24-MAR-2006 21:02	1.0	1.0			1	2	
062	c2415062	BSD	QC331833	111388	Filtra	24-MAR-2006 21:07	1.0	1.0			1	2	
064	c2415064	MSS	185408-008	111388	Filtra	24-MAR-2006 21:18	1.0	1.0	1		1	2	1:NA=21510.0
065	c2415065	SER	QC331838	111388	Filtra	24-MAR-2006 21:24	5.0	1.0			1	2	
066	c2415066	MS	QC331836	111388	Filtra	24-MAR-2006 21:29	1.0	1.0	3		1	2	4:NA=32320.0
067	c2415067	MSD	QC331837	111388	Filtra	24-MAR-2006 21:35	1.0	1.0	2		1	2	3:NA=31390.0
069	c2415069	CCV				24-MAR-2006 21:46	1.0	1.0			1	12 2	
071	c2415071	CCB				24-MAR-2006 21:57	1.0	1.0			1	2	
072	c2415072	TUN				24-MAR-2006 22:03	1.0	1.0				1	
073	c2415073	PDS	QC331839	111388	Filtra	24-MAR-2006 22:09	1.0	1.0	2		1	13 2	3:NA=31210.0
074	c2415074	MSS	185408-010	111388	Filtra	24-MAR-2006 22:15	1.0	1.0	2		1	2	2:NA=42630.0
075	c2415075	MS	QC331834	111388	Filtra	24-MAR-2006 22:20	1.0	1.0	1		1	2	3:NA=53420.0
076	c2415076	MSD	QC331835	111388	Filtra	24-MAR-2006 22:26	1.0	1.0	1		1	2	3:NA=52930.0
077	c2415077	MSS	185408-008	111388	Filtra	24-MAR-2006 22:31	20.0	1.0			1	2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: Merck Date: 3/25/6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
078	c2415078	SER	QC331838	111388	Filtra	24-MAR-2006 22:37	100.0	1.0			1	2	
079	c2415079	MS	QC331836	111388	Filtra	24-MAR-2006 22:42	20.0	1.0			1	2	
080	c2415080	MSD	QC331837	111388	Filtra	24-MAR-2006 22:48	20.0	1.0			1	2	
081	c2415081	PDS	QC331839	111388	Filtra	24-MAR-2006 22:53	20.0	1.0		2	1	13 2	
083	c2415083	CCV				24-MAR-2006 23:04	1.0	1.0			1	12 2	
085	c2415085	CCB				24-MAR-2006 23:15	1.0	1.0			1	2	
086	c2415086	MSS	185408-010	111388	Filtra	24-MAR-2006 23:21	20.0	1.0			1	2	
087	c2415087	MS	QC331834	111388	Filtra	24-MAR-2006 23:27	20.0	1.0			1	2	
088	c2415088	MSD	QC331835	111388	Filtra	24-MAR-2006 23:32	20.0	1.0			1	2	
089	c2415089	SAMPLE	185408-006	111388	Filtra	24-MAR-2006 23:38	1.0	1.0	3		1	2	3:MG=56540.0
090	c2415090	SAMPLE	185408-007	111388	Filtra	24-MAR-2006 23:43	1.0	1.0	3		1	2	3:MG=54910.0
091	c2415091	SAMPLE	185408-009	111388	Filtra	24-MAR-2006 23:49	1.0	1.0	1		1	2	1:NA=20340.0
092	c2415092	SAMPLE	185408-011	111388	Filtra	24-MAR-2006 23:55	1.0	1.0	2		1	2	2:NA=41040.0
093	c2415093	SAMPLE	185408-006	111388	Filtra	25-MAR-2006 00:00	20.0	1.0			1	2	
094	c2415094	SAMPLE	185408-007	111388	Filtra	25-MAR-2006 00:06	20.0	1.0			1	2	
095	c2415095	SAMPLE	185408-009	111388	Filtra	25-MAR-2006 00:11	20.0	1.0			1	2	
097	c2415097	CCV				25-MAR-2006 00:22	1.0	1.0			1	12 2	
099	c2415099	CCB				25-MAR-2006 00:34	1.0	1.0			1	2	
100	c2415100	SAMPLE	185408-011	111388	Filtra	25-MAR-2006 00:39	20.0	1.0			1	2	
101	c2415101	SAMPLE	185463-001	111388	Filtra	25-MAR-2006 00:45	1.0	1.0			1	2	
102	c2415102	SAMPLE	185463-001	111388	Filtra	25-MAR-2006 00:50	20.0	1.0			1	2	
104	c2415104	BLANK	QC331981	111421	Filtra	25-MAR-2006 01:01	1.0	1.0			1	2	
105	c2415105	BS	QC331982	111421	Filtra	25-MAR-2006 01:07	1.0	1.0			1	2	
106	c2415106	BSD	QC331983	111421	Filtra	25-MAR-2006 01:12	1.0	1.0			1	2	
107	c2415107	CCV				25-MAR-2006 01:18	1.0	1.0			1	12 2	
109	c2415109	CCB				25-MAR-2006 01:29	1.0	1.0			1	2	
110	c2415110	MSS	185408-002	111421	Filtra	25-MAR-2006 01:34	1.0	1.0	4		1	2	4:NA=113600
111	c2415111	SER	QC331986	111421	Filtra	25-MAR-2006 01:40	5.0	1.0			1	2	1:NA=22340.0
112	c2415112	MS	QC331984	111421	Filtra	25-MAR-2006 01:45	1.0	1.0			1	2	4:NA=119300
113	c2415113	MSD	QC331985	111421	Filtra	25-MAR-2006 01:51	1.0	1.0			1	2	4:NA=119300
114	c2415114	PDS	QC331987	111421	Filtra	25-MAR-2006 01:56	1.0	1.0			1	13 2	4:NA=116900

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: Melvin Date: 3/28/6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
115	c2415115	MSS	185408-002	111421	Filtra	25-MAR-2006 02:02	20.0	1.0			1	2	
116	c2415116	SER	QC331986	111421	Filtra	25-MAR-2006 02:07	100.0	1.0			1	2	
117	c2415117	MS	QC331984	111421	Filtra	25-MAR-2006 02:13	20.0	1.0		1	1	2	
118	c2415118	MSD	QC331985	111421	Filtra	25-MAR-2006 02:19	20.0	1.0		1	1	2	
119	c2415119	PDS	QC331987	111421	Filtra	25-MAR-2006 02:24	20.0	1.0		3	1	13 2	
121	c2415121	CCV				25-MAR-2006 02:35	1.0	1.0			1	12 2	
123	c2415123	CCB				25-MAR-2006 02:46	1.0	1.0			1	2	
124	c2415124	SAMPLE	185408-001	111421	Filtra	25-MAR-2006 02:52	1.0	1.0	4		1	2	4:NA=84720.0
125	c2415125	SAMPLE	185408-003	111421	Filtra	25-MAR-2006 02:57	1.0	1.0	4		1	2	4:NA=86130.0
126	c2415126	SAMPLE	185408-004	111421	Filtra	25-MAR-2006 03:03	1.0	1.0	5		1	2	5:CA=57740.0
127	c2415127	SAMPLE	185408-005	111421	Filtra	25-MAR-2006 03:08	1.0	1.0	5		1	2	5:CA=64560.0
128	c2415128	SAMPLE	185408-001	111421	Filtra	25-MAR-2006 03:14	20.0	1.0			1	2	
129	c2415129	SAMPLE	185408-003	111421	Filtra	25-MAR-2006 03:19	20.0	1.0			1	2	
130	c2415130	SAMPLE	185408-004	111421	Filtra	25-MAR-2006 03:25	20.0	1.0			1	2	
131	c2415131	SAMPLE	185408-005	111421	Filtra	25-MAR-2006 03:30	20.0	1.0			1	2	
133	c2415133	CCV				25-MAR-2006 03:42	1.0	1.0			1	12 2	
135	c2415135	CCB				25-MAR-2006 03:53	1.0	1.0			1	2	
136	c2415136	TUN				25-MAR-2006 03:59	1.0	1.0				1	
137	c2415137	ICSA				25-MAR-2006 04:05	1.0	1.0			1	10 2	7:CA=290700
138	c2415138	ICSAB				25-MAR-2006 04:10	1.0	1.0			1	11 2	10:CA=289100
140	c2415140	SAMPLE	185511-001	111388	Filtra	25-MAR-2006 04:21	1.0	1.0	3		1	2	3:NA=53820.0
141	c2415141	SAMPLE	185511-002	111388	Filtra	25-MAR-2006 04:27	1.0	1.0	3		1	2	3:NA=53130.0
142	c2415142	SAMPLE	185511-009	111388	Filtra	25-MAR-2006 04:32	1.0	1.0	2		1	2	2:NA=191500
143	c2415143	SAMPLE	185511-010	111388	Filtra	25-MAR-2006 04:38	1.0	1.0	4		1	2	4:NA=68870.0
144	c2415144	SAMPLE	185511-011	111388	Filtra	25-MAR-2006 04:43	1.0	1.0	3		1	2	3:MG=40470.0
145	c2415145	SAMPLE	185511-012	111388	Filtra	25-MAR-2006 04:49	1.0	1.0			1	2	
146	c2415146	SAMPLE	185511-013	111388	Filtra	25-MAR-2006 04:55	1.0	1.0			1	2	
148	c2415148	CCV				25-MAR-2006 05:06	1.0	1.0			1	12 2	
150	c2415150	CCB				25-MAR-2006 05:17	1.0	1.0			1	2	
151	c2415151	SAMPLE	185511-001	111388	Filtra	25-MAR-2006 05:22	20.0	1.0	1		1	2	
152	c2415152	SAMPLE	185511-002	111388	Filtra	25-MAR-2006 05:28	20.0	1.0	1		1	2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [signature] Date: 3/25/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
153	c2415153	SAMPLE	185511-009	111388	Filtra	25-MAR-2006 05:34	20.0	1.0	1		1	2	
154	c2415154	SAMPLE	185511-010	111388	Filtra	25-MAR-2006 05:39	20.0	1.0	1		1	2	
155	c2415155	SAMPLE	185511-011	111388	Filtra	25-MAR-2006 05:45	20.0	1.0	1		1	2	
156	c2415156	SAMPLE	185511-012	111388	Filtra	25-MAR-2006 05:50	20.0	1.0	1		1	2	
157	c2415157	SAMPLE	185511-013	111388	Filtra	25-MAR-2006 05:56	20.0	1.0	1		1	2	
159	c2415159	CCV				25-MAR-2006 06:07	1.0	1.0	1		1	12 2	
161	c2415161	CCB				25-MAR-2006 06:18	1.0	1.0			1	2	
162	c2415162	ICSA				25-MAR-2006 06:24	1.0	1.0			1	10 2	7:CA=301200
163	c2415163	ICSAB				25-MAR-2006 06:29	1.0	1.0			1	11 2	10:CA=300000
165	c2415165	SAMPLE	185586-001	111436	Filtra	25-MAR-2006 06:40	1.0	1.0	5		1	2	4:CA=167100
166	c2415166	SAMPLE	185586-002	111436	Filtra	25-MAR-2006 06:46	1.0	1.0	5		1	2	4:CA=124300
167	c2415167	SAMPLE	185586-003	111436	Filtra	25-MAR-2006 06:51	1.0	1.0	5		1	2	4:CA=124000
168	c2415168	SAMPLE	185586-018	111436	Filtra	25-MAR-2006 06:57	1.0	1.0	4		1	2	3:NA=93550.0
169	c2415169	SAMPLE	185586-019	111436	Filtra	25-MAR-2006 07:02	1.0	1.0	6		1	2	5:NA=56300.0
170	c2415170	SAMPLE	185586-020	111436	Filtra	25-MAR-2006 07:08	1.0	1.0	6		1	2	5:NA=137100
171	c2415171	SAMPLE	185586-021	111436	Filtra	25-MAR-2006 07:13	1.0	1.0	5		1	2	4:CA=52610.0
172	c2415172	SAMPLE	185586-022	111436	Filtra	25-MAR-2006 07:19	1.0	1.0	4		1	2	3:NA=51830.0
174	c2415174	CCV				25-MAR-2006 07:30	1.0	1.0			1	12 2	
176	c2415176	CCB				25-MAR-2006 07:41	1.0	1.0			1	2	
177	c2415177	SAMPLE	185586-023	111436	Filtra	25-MAR-2006 07:47	1.0	1.0	3		1	2	
178	c2415178	SAMPLE	185586-024	111436	Filtra	25-MAR-2006 07:52	1.0	1.0	4		1	2	3:MG=54800.0
179	c2415179	SAMPLE	185586-025	111436	Filtra	25-MAR-2006 07:58	1.0	1.0	3		1	2	2:MG=45530.0
180	c2415180	SAMPLE	185586-026	111436	Filtra	25-MAR-2006 08:03	1.0	1.0	4		1	2	3:NA=53600.0
181	c2415181	SAMPLE	185586-001	111436	Filtra	25-MAR-2006 08:09	20.0	1.0	3		1	2	
182	c2415182	SAMPLE	185586-002	111436	Filtra	25-MAR-2006 08:14	20.0	1.0	3		1	2	
183	c2415183	SAMPLE	185586-003	111436	Filtra	25-MAR-2006 08:20	20.0	1.0	3		1	2	
184	c2415184	SAMPLE	185586-018	111436	Filtra	25-MAR-2006 08:26	20.0	1.0	3		1	2	
185	c2415185	CCV				25-MAR-2006 08:33	1.0	1.0	3		1	12 2	
187	c2415187	CCB				25-MAR-2006 08:44	1.0	1.0			1	2	
188	c2415188	ICSA				25-MAR-2006 08:49	1.0	1.0			1	10 2	7:CA=299100
189	c2415189	ICSAB				25-MAR-2006 08:55	1.0	1.0			1	11 2	8:CA=288700

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [signature] Date: 3/25/06

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Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185463 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	ALS	BAS	BEA	CDE	CAD	CRA	COR	CUO	FEU	PBE	MGB	MNG	HGN	NIG	K I	SE	AG	NA	TL	V	ZN
185463-001	MET04	03/14/06 13:25	1.0													+								
185463-001	MET05	03/25/06 00:45	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
185463-001	MET05	03/25/06 00:50	20.0																					
QC331350	MET04	03/14/06 12:27	1.0													+								
QC331351	MET04	03/14/06 12:29	1.0													+								
QC331352	MET04	03/14/06 12:31	1.0													+								
QC331353	MET04	03/14/06 12:33	1.0													+								
QC331354	MET04	03/14/06 12:37	1.0													+								
QC331355	MET04	03/14/06 12:39	1.0													+								
QC331356	MET04	03/14/06 12:43	1.0													+								
QC331357	MET04	03/14/06 12:45	1.0													+								
QC331831	MET05	03/24/06 20:56	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC331832	MET05	03/24/06 21:02	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC331833	MET05	03/24/06 21:07	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC331834	MET05	03/24/06 22:20	1.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	
QC331834	MET05	03/24/06 23:27	20.0							+						+							+			+
QC331835	MET05	03/24/06 22:26	1.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	
QC331835	MET05	03/24/06 23:32	20.0							+						+							+			+
QC331836	MET05	03/24/06 21:29	1.0		+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
QC331836	MET05	03/24/06 22:42	20.0	+						+						+							+			
QC331837	MET05	03/24/06 21:35	1.0		+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
QC331837	MET05	03/24/06 22:48	20.0	+						+						+							+			
QC331838	MET05	03/24/06 21:24	5.0	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+		+	+	+
QC331838	MET05	03/24/06 22:37	100.0																			+			
QC331839	MET05	03/24/06 22:09	1.0		+	+	+	+	+	+	+	+	+	+	+		+		+	+	+	+		+	+	+
QC331839	MET05	03/24/06 22:53	20.0	+												+							+			

Curtis & Tompkins Laboratories Sample Preparation Summary 25-MAR-2006 09:06

Batch Number : 111388
Date Extracted: 16-MAR-2006
Extracted by : Kevin Gaines
Prep Method : 200.8

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S2309
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185408-006			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185408-007			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185408-008			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185408-009			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185408-010			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185408-011			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185463-001			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185511-001			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
185511-002			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
185511-009			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
185511-010			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
185511-011			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
185511-012			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HARDNESS, MO(more)		
185511-013			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HARDNESS, MO(more)		
QC331831	BLANK			Filtrate	50	mL	50	1.000000	1					ICAP		
QC331832	BS			Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331833	BSD			Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331834	MS	of 185408-010		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331835	MSD	of 185408-010		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331836	MS	of 185408-008		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331837	MSD	of 185408-008		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331838	SER	of 185408-008		Filtrate	50	mL	50	1.000000	1					ICAP		
QC331839	PDS	of 185408-008		Filtrate	50	mL	50	1.000000	1					ICAP		

Prep Chemist: MWforlcy Reviewed By: MW Date: 3/25/6

Relinquished By: MW Received By: MW Date: 3/25/6

Water Digestion for ICP-MS

Curtis & Tompkins, Ltd.

LIMS Batch #: 11138 ✓
Date Digested: 3/16/04
Digested by: KLEA

Digestion Method
☐ EPA 200.8 for ICP-MS
☐ _____

BK 2288
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Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BLK	50	50	N	
BS				
BSD				
MS - 10 J				FIELD FILTERED
MSD - 10				
185408 - 10				
MS 0.5				
MSD 0				
408 - 0				
- 06 A				
- 07				
- 11 D				
463 - 01 G				
511 - 01 K				
- 02				
- 09 J				
- 10 G				
- 11 K				
- 12 N				
- 13				
408 - 09 G				

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90-95 degrees C)	95	KLEA 3/14
5 mL of spike solution was added to all spikes	52309	
concentrated HCl	24034 BAKER	
concentrated HNO3	3840	
☐ filtered thru' Whatman # 541		

KLEA 3/16/04

Continued from page /
Continued on page /

KW 3/16/04

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

Inst : MET04
Calnum : 46105849001
Units : ug/L

Date : 14-MAR-2006 12:09
X Axis : R

Type : WATER

Reviewer: ---
Inj Vol : 2000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	111271	46105849002	Std02Rep1	14-MAR-2006 12:11	S2904 (500X)
L2	111271	46105849003	Std03Rep1	14-MAR-2006 12:13	S2904 (200X)
L3	111271	46105849004	Std04Rep1	14-MAR-2006 12:15	S2904 (50X)
L4	111271	46105849005	Std05Rep1	14-MAR-2006 12:17	S2904 (20X)
L5	111271	46105849006	Std06Rep1	14-MAR-2006 12:19	S2904 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Mercury	55370	52628	49007	45793	45205	LINR	-0.0926	2.23E-5		49601	1.000	.99	

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LINR=Linear regression

Instrument amount = a0 + response * a1 + response^2 * a2

46105849001

WinHg Database 1.3

File Utility Help

RN RN

Protocol hgppb

Dataset/Proto 031406 /hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 2.22772e-5

C -9.26034e-2

Rho .999925

Type Linear

☑ Calibrated

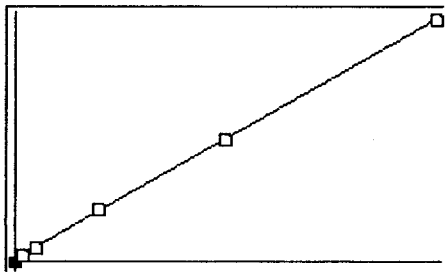
☑ Accepted

Accept

Rel. Abs.
452054

Accepted

New



Conc. 10.0

Include S1 Rep 1 ☑

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.025	-.025	3057	1	3057		
02	.20000	.154	-.046	11074	0%	11074		
03	.50000	.494	-.006	26314	0%	26314		
04	2.0000	2.09	.091	98014	0%	98014		
05	5.0000	5.01	.008	228964	0%	228964		
06	10.000	9.98	-.022	452055	0%	452054		

Ready NUM

Protocol: hgppb

POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Standard: 1 Rep: 1              Seq:  3       12:09:00 14 Mar 06   HG

Hg    .000    ppb       3057
              Bkgd 1    9992739

*** Standard: 2 Rep: 1              Seq:  4       12:11:57 14 Mar 06   HG

Hg    .200    ppb       11074
              Bkgd 1    9989491

*** Standard: 3 Rep: 1              Seq:  5       12:13:45 14 Mar 06   HG

Hg    .500    ppb       26314
              Bkgd 1    9989620

*** Standard: 4 Rep: 1              Seq:  6       12:15:42 14 Mar 06   HG

Hg    2.00    ppb       98014
              Bkgd 1    9990168

*** Standard: 5 Rep: 1              Seq:  7       12:17:47 14 Mar 06   HG

Hg    5.00    ppb       228964
              Bkgd 1    9988710

*** Standard: 6 Rep: 1              Seq:  8       12:19:44 14 Mar 06   HG

Hg    10.0    ppb       452054
              Bkgd 1    9989556

*** Check Standard: 2  Ck2s2906     Seq:  9       12:23:19 14 Mar 06   HG
Line  Flag             Intensities
Hg                     243578
              Bkgd 1   9983356

*** Check Standard: 1  Ck1ICB       Seq:  10      12:25:00 14 Mar 06   HG
Line  Flag             Intensities
Hg                     -4010
              Bkgd 1   9978055

*** Sample ID: QC331350             Seq:  11      12:27:02 14 Mar 06   HG
                          111271,1
Hg   -.023    ppb       3102
              Bkgd 1    9981125

=============================================================================
```

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

:equence: 46105849 Instrument: MET04 HydraAA HG Analyzer Begun: 14-MAR-2006
.nalytical Method: EPA 7470A SOP Version: HG_water_rv7
.nalyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
)1	111271	ICALBLK	Std01Rep1				14-MAR-2006 12:09	1.0	1.0									
)2	111271	ICAL	Std02Rep1				14-MAR-2006 12:11	1.0	1.0									
)3	111271	ICAL	Std03Rep1				14-MAR-2006 12:13	1.0	1.0									
)4	111271	ICAL	Std04Rep1				14-MAR-2006 12:15	1.0	1.0									
)5	111271	ICAL	Std05Rep1				14-MAR-2006 12:17	1.0	1.0									
)6	111271	ICAL	Std06Rep1				14-MAR-2006 12:19	1.0	1.0									
)7	111271	ICV					14-MAR-2006 12:23	1.0	1.0	2	5.000	46105849001	5.330		ug/L	107		
)8	111271	ICB					14-MAR-2006 12:25	1.0	1.0			46105849001	ND	0.20	ug/L			
)9	111271	BLANK	QC331350		111271	Water	14-MAR-2006 12:27	1.0	1.0			46105849001	ND	0.20	ug/L			
.0	111271	BLANK	QC331351		111271	WET Le	14-MAR-2006 12:29	1.0	5.0			46105849001	ND	1.0	ug/L			
.1	111271	BS	QC331352		111271	Water	14-MAR-2006 12:31	1.0	1.0		5.000	46105849001	5.180	0.20	ug/L	104		
.2	111271	BSD	QC331353		111271	Water	14-MAR-2006 12:33	1.0	1.0		5.000	46105849001	5.160	0.20	ug/L	103	0	
.3	111271	MSS	185408-008		111271	Water	14-MAR-2006 12:35	1.0	1.0			46105849001	ND	0.20	ug/L			
.4	111271	MS	QC331354	185408-008	111271	Water	14-MAR-2006 12:37	1.0	1.0		5.000	46105849001	5.260	0.20	ug/L	105		
.5	111271	MSD	QC331355	185408-008	111271	Water	14-MAR-2006 12:39	1.0	1.0		5.000	46105849001	5.070	0.20	ug/L	101	4	
.6	111271	MSS	185377-002		111271	WET Le	14-MAR-2006 12:41	1.0	5.0			46105849001	2.5	1.0	ug/L			
.7	111271	MS	QC331356	185377-002	111271	WET Le	14-MAR-2006 12:43	1.0	5.0		25.00	46105849001	22.65	1.0	ug/L	81		
.8	111271	MSD	QC331357	185377-002	111271	WET Le	14-MAR-2006 12:45	1.0	5.0		25.00	46105849001	21.40	1.0	ug/L	76	6	
.9	111271	CCV					14-MAR-2006 12:47	1.0	1.0	3	2.500	46105849001	2.440		ug/L	98		
:0	111271	CCB					14-MAR-2006 12:49	1.0	1.0			46105849001	ND	0.20	ug/L			
:1	111271	SAMPLE	185377-003		111271	WET Le	14-MAR-2006 12:50	1.0	5.0			46105849001	ND	1.0	ug/L			
:2	111271	SAMPLE	185408-009		111271	Water	14-MAR-2006 12:52	1.0	1.0			46105849001	ND	0.20	ug/L			
:3	111271	SAMPLE	185414-001		111271	Filtra	14-MAR-2006 12:54	1.0	1.0			46105849001	ND	0.20	ug/L			
:4	111271	SAMPLE	185414-002		111271	Filtra	14-MAR-2006 12:57	1.0	1.0			46105849001	ND	0.20	ug/L			
:5	111271	SAMPLE	185414-003		111271	Filtra	14-MAR-2006 12:59	1.0	1.0			46105849001	ND	0.20	ug/L			
:6	111271	SAMPLE	185414-004		111271	Filtra	14-MAR-2006 13:01	1.0	1.0			46105849001	ND	0.20	ug/L			
:7	111271	SAMPLE	185414-005		111271	Filtra	14-MAR-2006 13:03	1.0	1.0			46105849001	ND	0.20	ug/L			
:8	111271	SAMPLE	185414-006		111271	Filtra	14-MAR-2006 13:05	1.0	1.0			46105849001	ND	0.20	ug/L			
:9	111271	SAMPLE	185414-007		111271	Filtra	14-MAR-2006 13:06	1.0	1.0			46105849001	ND	0.20	ug/L			
0	111271	SAMPLE	185414-008		111271	Filtra	14-MAR-2006 13:09	1.0	1.0			46105849001	ND	0.20	ug/L			
1	111271	CCV					14-MAR-2006 13:11	1.0	1.0	4	5.000	46105849001	5.420		ug/L	108		
2	111271	CCB					14-MAR-2006 13:14	1.0	1.0			46105849001	ND	0.20	ug/L			
3	111271	SAMPLE	185414-009		111271	Filtra	14-MAR-2006 13:16	1.0	1.0			46105849001	ND	0.20	ug/L			
4	111271	SAMPLE	185414-010		111271	Filtra	14-MAR-2006 13:17	1.0	1.0			46105849001	ND	0.20	ug/L			
5	111271	SAMPLE	185414-011		111271	Filtra	14-MAR-2006 13:19	1.0	1.0			46105849001	ND	0.20	ug/L			
6	111271	SAMPLE	185414-012		111271	Filtra	14-MAR-2006 13:21	1.0	1.0			46105849001	ND	0.20	ug/L			
7	111271	SAMPLE	185414-013		111271	Filtra	14-MAR-2006 13:23	1.0	1.0			46105849001	ND	0.20	ug/L			
8	111271	SAMPLE	185463-001		111271	Filtra	14-MAR-2006 13:25	1.0	1.0			46105849001	ND	0.20	ug/L			
9	111271	CCV					14-MAR-2006 13:27	1.0	1.0	5	7.500	46105849001	7.750		ug/L	103		
0	111271	CCB					14-MAR-2006 13:29	1.0	1.0			46105849001	ND	0.20	ug/L			

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:ds used: 1=S2904 2=S2906 3=S2907 4=S2908 5=S2909

nalyst: [signature] Date: 3/14/06

Curtis & Tompkins Laboratories Sample Preparation Summary 14-MAR-2006 10:12

Batch Number : 111271
Date Extracted: 14-MAR-2006
Extracted by : Kale Clauson
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : mL
Clean-up :

Spike #1 ID : S2904
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185377-002			Iris Environmental	WET Leacha	10	mL	50	5.000000	1				HG		
185377-003			Iris Environmental	WET Leacha	10	mL	50	5.000000	1				HG		
185408-008			Treadwell & Rollo	Water	50	mL	50	1.000000	1				HG		
185408-009			Treadwell & Rollo	Water	50	mL	50	1.000000	1				HG		
185414-001			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
185414-002			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
185414-003			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
185414-004			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
185414-005			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
185414-006			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
185414-007			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
185414-008			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
185414-009			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
185414-010			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
185414-011			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
185414-012			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
185414-013			Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
185463-001			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				HG		
QC331350	BLANK			Water	50	mL	50	1.000000	1				HG		
QC331351	BLANK			WET Leacha	10	mL	50	5.000000	1				HG		
QC331352	BS			Water	50	mL	50	1.000000	1	2.5			HG		
QC331353	BSD			Water	50	mL	50	1.000000	1	2.5			HG		
QC331354	MS	of 185408-008		Water	50	mL	50	1.000000	1	2.5			HG		
QC331355	MSD	of 185408-008		Water	50	mL	50	1.000000	1	2.5			HG		
QC331356	MS	of 185377-002		WET Leacha	10	mL	50	5.000000	1	2.5			HG		
QC331357	MSD	of 185377-002		WET Leacha	10	mL	50	5.000000	1	2.5			HG		

Prep Chemist: _____ Reviewed By: K Carlyn Date: 3/14/06

Relinquished By: _____ Received By: _____ Date: 3/14/06

Water Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 111271
Date Digested: 3/14/06
Digested by: KMC

Digestion Method
☒ EPA 7470A/ EPA 245.1
☐ _____

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Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
185377 - 002 MSS	10	50	N	WET LEACHATE
003				
185408 - 008 MSS X	50			WATER
009 H				
185414 - 001 G				FILTRATE
002				
003				
004				
005				
006				
007				
008				
009				
010				
011				
012				
013				
185418 - 001				
BLANK QC331350				WATER
BLANK QC 331351	10			WET LEACHATE
BS/BSD	50			WATER
MS 185408 - 008				
MSD 185408 - 008				
MS 185377 - 002	10			WET LEACHATE
MSD 185377 - 002				

2.5 mL of spike solution was added to all spikes

	Reagent ID/ LIMS# / Time	Initials / Date
	S2904	KMC 3/14
ICAL Source WS#	S2904	
ICV / CCV WS#	S2906/07/08/09	
Digestion of Samples & Standards: Time ON / Temperature ON	930 / 95°C	
Time OFF/ Temperature OFF	1130 / 95°C	
concentrated H_2SO_4	B03032	
concentrated HNO_3	B49053	
5% $KMnO_4$	K 031006	
5% $K_2S_2O_8$	K_2 021406	
NaCl.hydroxylamine hydrochloride	Hy 022806	
Stannous Chloride	$SnCl_2$ 031306	
☐ filtered thru' 0.45 um syringe filter	—	

3/14
Prep Chemist / Date

Continued from page ____

Continued on page ____

K Carlson 3/14/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 6020 Water 200.8
As of 04/29/06

Analyte	Units	MET06 A	MET06 E	MET06 H	MET05
Aluminum	ug/L	0.40			1.0
Antimony	ug/L	0.0093			0.078
Arsenic	ug/L		0.034		0.65
Barium	ug/L	0.023			0.23
Beryllium	ug/L	0.017			0.055
Cadmium	ug/L	0.0058			0.14
Calcium	ug/L	5.6			15
Chromium	ug/L		0.038		0.085
Cobalt	ug/L		0.0072		0.034
Copper	ug/L		0.028		0.31
Iron	ug/L			1.9	4.2
Lead	ug/L	0.013			0.24
Magnesium	ug/L	0.73			2.1
Manganese	ug/L		0.011		0.082
Molybdenum	ug/L	0.0063			0.062
Nickel	ug/L		0.029		0.16
Potassium	ug/L	5.3			8.9
Selenium	ug/L			0.027	0.35
Silver	ug/L	0.0079			0.041
Sodium	ug/L		2.7		15
Thallium	ug/L	0.030			0.073
Vanadium	ug/L		0.026		0.15
Zinc	ug/L		0.062		0.52

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 7470A Water
As of 04/29/06

Analyte	Units	MET04
Mercury	ug/L	0.080

GENERAL CHEMISTRY

Curtis & Tompkins, Ltd.

Total Cyanide

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 335.2
Analyte:	Cyanide	Batch#:	111558
Field ID:	NKGW03	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	mg/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Type	Lab ID	Result	RL
SAMPLE	185463-001	ND	0.01
BLANK	QC332535	ND	0.01

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Cyanide

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 335.2
Analyte:	Cyanide	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	111558
MSS Lab ID:	185690-001	Sampled:	03/21/06
Matrix:	Water	Received:	03/21/06
Units:	mg/L	Analyzed:	03/22/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC332536	<0.01000	0.2020	0.2152	107	65-135		
MSD	QC332537		0.2020	0.2220	110	65-135	3	20
LCS	QC332538		0.2020	0.1997	99	75-125		
LCS	QC332539		0.1010	0.1062	105	75-125		

RPD= Relative Percent Difference

Analysis:	**Cyanide**	Matrix:	Water
Method:	**EPA 335.2** / SMWW 4500CN-E	Batch:	**111558**
Instrument:	HP UV-VIS Spectrometer	Prep Date:	**3/22/2006**
Wavelength:	578 nm	Analysis Date:	**3/22/2006**
SOP#:	CN_335_rv8.doc	Analyst:	DMc

INITIAL CALIBRATION DATA

Calibration Date: 7/5/05

Conc (mg/L)	ABS	RF
0.00000	-0.0009	
0.00884	0.0086	0.972851
0.01768	0.0195	1.102941
0.05304	0.0618	1.165158
0.08840	0.1033	1.168552
0.14144	0.1679	1.187076
0.17680	0.2081	1.177036
0.26520	0.3195	1.204751

Correlation Coefficient (r):	0.9999
Avg Rf:	1.139766
%RSD:	7.0

Note: Average Rf used to calculate sample results.

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CONTINUING CALIBRATION DATA

	ABS	Conc (mg/L)	True (mg/L)	Recovery	CV Limits
ICV	0.1980	0.1737	0.1620	107%	90 - 110%
ICB	-0.0002	-0.0002	0.0000		
CCV	0.1954	0.1714	0.1620	106%	90 - 110%
CCB	-0.0005	-0.0004	0.0000		

Analysis: **Cyanide**
Method: **EPA 335.2** / SMWW 4500CN-E
Instrument: HP UV-VIS Spectrometer
Wavelength: 578 nm

Matrix: Water
Batch: **111558**
Prep Date: **3/22/2006**
Analysis Date: **3/22/2006**
Analyst: DMc

SAMPLE & BATCH QC DATA

Sample ID	Vol (mL) Distilled	Final Distill Vol (mL)	Distillate Colored (mL)	Instrument Dilution	ABS	**Report mg/L**	Reporting Limit (mg/L)	Vol Spike Added (mL)	Std Conc. (mg/L)	Spiked @ (mg/L)	**% Rec**	**% RPD**
MB	50.0	50.0	20.0	1.00	-0.0011	**ND**	0.010					
LCS	50.0	50.0	20.0	1.00	0.2276	**0.1997**	0.010	0.5	20.2	0.202	**99**	
LCS	50.0	50.0	20.0	1.00	0.1210	**0.1062**	0.010	0.250	20.2	0.101	**105**	
185690-1	50.0	50.0	20.0	1.00	0.0008	**ND**	0.010					
185690-1ms	50.0	50.0	20.0	1.00	0.2453	**0.2152**	0.010	0.5	20.2	0.202	**107**	273
185690-1msd	50.0	50.0	20.0	1.00	0.2530	**0.2220**	0.010	0.5	20.2	0.202	**110**	**3**
185408-6	50.0	50.0	20.0	1.00	0.0008	**ND**	0.010					
185408-7	50.0	50.0	20.0	1.00	-0.0015	**ND**	0.010					
185463-1	50.0	50.0	20.0	1.00	0.0067	**ND**	0.010					
185566-1	50.0	50.0	20.0	1.00	0.0103	**ND**	0.010					

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	80 - 120
MS/ MSD	20	69 - 120

Reviewed by/ Date: 3.22.06

---> Quantitation Results Report <---

Date : 03-~~17~~ 22-2006 3-22-06
Time : 13:36:32
Operator : Not Entered
DM

Name : Data not stored yet

e Name : cyanide
nt Name : CAL 7/5/05
Units : mg/L
Factor : 1.00

Analytical Wavelength : 578 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

E #	Sample Name	Wavelength	Func. Res.	Concentration
	icb	Analytical	-0.0002	0.00000
	icv	Analytical	+0.1980	0.16608
	185408-6	Analytical	+0.0008	6.910E-04
	185408-7	Analytical	-0.0015	0.00000
	185463-1	Analytical	+0.0067	0.00559
	185566-1	Analytical	+0.0103	0.00868
	185690-1	Analytical	+0.0008	6.782E-04
	185690-1ms	Analytical	+0.2453	0.20575
	185690-1msd	Analytical	+0.2530	0.21221
	lcs	Analytical	+0.2276	0.19090
	lcs	Analytical	+0.1210	0.10149
	mb	Analytical	-0.0011	0.00000
	ccv	Analytical	+0.1954	0.16386
	ccb	Analytical	-0.0005	0.00000

---) Standard Calibration Report (---

Date : 03-~~17~~ 22-2006 3-22-06
Time : 13:39:51
Operator : Not Entered
DH

Name : C:\UV\DATA\mdcn705.STD

Name : cyanide
t Name : CAL 7/5/05
Units : mg/L

Analytical Wavelength : 578 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

ical Function Concentration = +8.387E-01 * Absorbance

STD #	Concentration	Absorbance	% Error
1	0.00000	-.0009	*****
2	0.00884	0.0086	+22.699 %
3	0.01768	0.0195	+8.106 %
4	0.05304	0.0618	+2.340 %
5	0.08840	0.1033	+2.023 %
6	0.14144	0.1679	+0.471 %
7	0.17680	0.2081	+1.290 %
8	0.26520	0.3195	-1.022 %

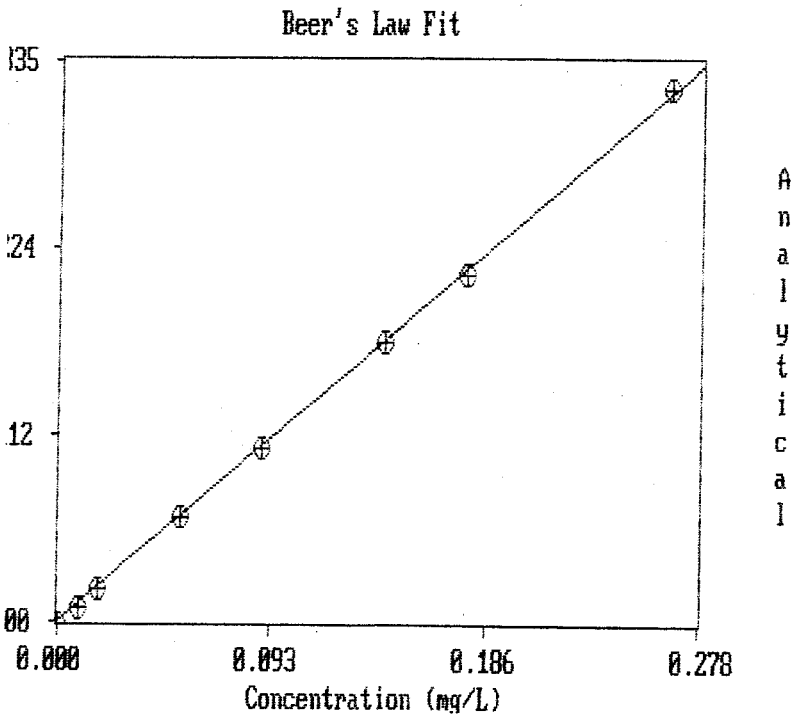
---> Standard Calibration Report <---

Date : 03-~~17~~ 22-2006 3-22-06
Time : 13:39:52
Operator : Not Entered
DM

me : C:\UV\DATA\mdcn705.STD

Name : cyanide
Name : CAL 7/5/05
its : mg/L

Analytical Wavelength : 578 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds



CN- EPA 335.2M / 9010-9014 B111558

Sample	Vol(ml)	Final Vol(ml)	Vol(ml) for Color	ABS
185408-6	50	50	20	.0008
-7				-.0015
185463-1				.0067
185566-1				.0103
185690-1				.0008
LCS	+.5 ml (20.2ug/ml dilno FS2649, 1ml → 50ml)			.2276
LCS	same as LCS ÷ 2			.1210
MB				-.0011
ICB				-.0002
ICV 2ml (202ug/ml dilno FS2649) - 250			20ml	.1980
CCV				.1954
CCB				-.0005
185690-1MS	50	50	20	.2453
	+.5 ml (20.2ug/ml dilno FS2649, 1ml → 50ml)			
-1MSD				.2530

TV = .162 mg/L

Tests for CN, S= negative
pH all >12
Sulfamic acid added to all samples.

Continued on Page

Read and Understood By

3-22-06 Signed Date

3.22.06 Signed Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111558
Date Started: 22-MAR-2006
Batched by : Dennis McCanna

Analysis : CYANIDE
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185408-006			Treadwell & Rollo	Water	CYANIDE	21-MAR-2006
185408-007			Treadwell & Rollo	Water	CYANIDE	21-MAR-2006
185463-001			Treadwell & Rollo	Water	CYANIDE	22-MAR-2006
185566-001			Tetra Tech EC, Inc	Water	CYANIDE	22-MAR-2006
185690-001			CH2M Hill Construc	Water	CYANIDE	28-MAR-2006
QC332535	BLANK			Water	CYANIDE	
QC332536	MS	of 185690-001		Water	CYANIDE	
QC332537	MSD	of 185690-001		Water	CYANIDE	
QC332538	LCS			Water	CYANIDE	
QC332539	LCS			Water	CYANIDE	

Method Detection Limit Study

Analysis:	**Cyanide**	Matrix:	**Water**
Method:	EPA 335.2 mod*	Analysis Date:	8/24/2005
Instrument:	HP UV/VIS Spectrometer	Analyst:	DMc
	* using the midi-distillation apparatus		

Concentration:	0.0195	mg/L
1	0.0215	
2	0.0173	
3	0.0192	
4	0.0197	
5	0.0200	
6	0.0199	
7	0.0183	
8		
Average	0.0194	
STDEVP	0.00124	
Student's t	2.998	

(Student-T value for 7 replicates = 3.143, for 8 replicates = 2.998)

MDL = Student T * StdDev:	**0.0037**	mg/L
Reporting Limit:	0.0100	mg/L
Status:	PASS	>1/3 RL

f:\inorgan\forms\cn-mdl-h2o.xls
ver.2 effective 7/14/04

Curtis & Tompkins, Ltd.

Total Dissolved Solids (TDS)

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Batch#:	111354
Field ID:	NKGW03	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	mg/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Type	Lab ID	Result	RL
SAMPLE	185463-001	280	10
BLANK	QC331712	ND	10

ND= Not Detected
RL= Reporting Limit

Batch QC Report

Total Dissolved Solids (TDS)

Lab #:	185463	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Batch#:	111354
Matrix:	Water	Sampled:	03/08/06
Units:	mg/L	Analyzed:	03/15/06

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim	Diln Fac	Received
	BS		QC331713		100.0	90.00		90	79-121			1.000	
	BSD		QC331714		100.0	104.0		104	79-121	14	20	1.000	
ZZZZZZZZZZ	SDUP	185373-001	QC331715	7,800		9,133	166.7			16	20	16.67	03/08/06
600GW101	SDUP	185408-002	QC331716	798.0		776.0	10.00			3	20	1.000	03/09/06
DAESP03	SDUP	185408-008	QC331717	404.0		360.0	10.00			12	20	1.000	03/09/06
BB3SW104	SDUP	185408-010	QC331718	400.0		396.0	10.00			1	20	1.000	03/09/06

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RL= Reporting Limit
RPD= Relative Percent Difference

15.0

Curtis & Tompkins, Ltd.

Analysis: **Total Dissolved Solids**
Method: **EPA160.1** / SMWW 2540c
Matrix: Water
SOP#: tds_rv 9.doc

Analysis Date: **15-Mar-06**
Batch #: **111354**
Analyst: JKS

BATCH QC DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)	Spike Std Conc (mg/L)	Spike Vol.Used (mL)	Spiking Level (mg/L)	**Recovery,%**	**RPD,%**
MB	50	1	53.0682	53.0685	0.0003	ND	10					
BS	50	1	55.6991	55.7036	0.0045	90.0	10	1,000	5	100	**90**	
BSD	50	1	50.4022	50.4074	0.0052	104.0	10	1,000	5	100	**104**	**14.43**
185373-1	3	16.67	24.8887	24.9121	0.0234	7,800.0	167					
SDUP	3	16.67	26.2259	26.2533	0.0274	9,133.3	167					**15.75**
185408-2	50	1	48.6896	48.7295	0.0399	798.0	10					
SDUP	50	1	44.1328	44.1716	0.0388	776.0	10					**2.80**
185408-8	50	1	44.2395	44.2597	0.0202	404.0	10					
SDUP	50	1	49.1187	49.1367	0.0180	360.0	10					**11.52**
185408-10	50	1	47.0435	47.0635	0.0200	400.0	10					
SDUP	50	1	46.9518	46.9716	0.0198	396.0	10					**1.01**

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	79 - 121
MS/ MSD	20	69 - 131

SAMPLE DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)
185408-1	50	1	47.5103	47.5358	0.0255	510.0	10
185408-3	50	1	45.1159	45.1434	0.0275	550.0	10
185408-4	50	1	48.4244	48.4536	0.0292	584.0	10
185408-5	50	1	46.8879	46.9164	0.0285	570.0	10
185408-6	50	1	41.6626	41.6888	0.0262	524.0	10
185408-7	50	1	44.6076	44.6316	0.0240	480.0	10
185408-9	50	1	52.7107	52.7280	0.0173	346.0	10
185408-11	50	1	49.4103	49.4291	0.0188	376.0	10
185457-1	50	1	51.4891	51.5242	0.0351	702.0	10
185463-1	50	1	49.0329	49.0468	0.0139	278.0	10

Note: Because the regulatory holding time is based on the prep date, the analysis date referenced above is the prep date.

Reviewed by/ Date: RSCiPFa 3/20/06

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TDS (Total Dissolved Solids)
EPA 160.1 / SMWW 2540C

Curtis & Tompkins, Ltd.

LIMS Batch #: 111354

Prep Date: 3-15-6
Prep Time: 16:00

Benchbook#: **BK2145**
Page: **82**

Filter Mfg/ Lot#: Fi672870
Spike WS#: S2182

Spike WS Conc (mg/L): 1000
Spike Vol Added (mL): 5

	In	Out	In-2	Out-2	In-3	Out-3
Date:	3-15-6	3-16-6	3-16-6	3-16-6		
Time:	19:00	10:00	15:00	17:00		
Temp (C):	90	180°C	180°C	180°C		

	Sample # / Letter	EC Value (µS/cm)	Sample Vol. Filtered (mL)	Dish ID	Dish Wt (g)	1st Dry Wt.(g)	2nd Dry Wt (g)*	3rd Dry Wt (g)*
1	MB		50	TT	53.0682	53.0685	53.0683	
	BS		↓	EA	55.6991	55.7036	55.7040	
	BSD		↓	MM	50.4022	50.4074	50.4078	
	185373-1J	11,640	3	∴	24.8887	24.9121	24.9122	
5	-1J SDUP	—	3	LK	26.2259	26.2533	26.2533	
	185408-1L	928	50	8	47.5103	47.5358	47.5357	
	-2Z	1383	↓	H	48.6896	48.7295	48.7298	
	-2Z SDUP	(SS) 356.6 ~~1098~~ —	↓	R	44.1328	44.1716	44.1719	
	-3L	(SS) 356 ~~962~~ 1098	↓	K	45.1159	45.1434	45.1430	
10	-4L	962	↓	AE	48.4244	48.4536	48.4536	
	-5L	978	↓	LMM	46.8879	46.9164	46.9165	
	-6B	388	↓	HT	41.6626	41.6888	41.6886	
	-7B	879	↓	Z	44.6076	44.6316	44.6312	
	-8Z	319	↓	KED	44.2395	44.2597	44.2596	
15	-8Z SDUP	—	↓	AVI	49.1187	49.1367	49.1366	
	-9J	317	↓	3	52.7107	52.7280	52.7281	
	-10Q	594	↓	1	47.0435	47.0635	47.0639	
	-10Q SDUP	—	↓	Δ	46.9518	46.9716	46.9717	
	-11F	618	↓	ETH	49.4103	49.4291	49.4293	
20	185457-1H	1187	↓	31	51.4891	51.5242	51.5244	
	185463-1H	260	↓	2	49.0329	49.0468	49.0469	

* Constant weight must be within 0.0005 from previous reading.

3-15-6
Analyst / Date

RSCIFFA 3/20/2006
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111354
Date Started: 15-MAR-2006
Batched by : Jason K. Spence

Analysis : TDS
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185373-001			Acme Fill Corp.	Water	TDS	20-MAR-2006
185408-001			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-002			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-003			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-004			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-005			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-006			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-007			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-008			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-009			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-010			Treadwell & Rollo	Water	TDS	21-MAR-2006
185408-011			Treadwell & Rollo	Water	TDS	21-MAR-2006
185457-001			Treadwell & Rollo	Water	TDS	22-MAR-2006
185463-001			Treadwell & Rollo	Water	TDS	22-MAR-2006
QC331712	BLANK			Water	TDS	
QC331713	BS			Water	TDS	
QC331714	BSD			Water	TDS	
QC331715	SDUP	of 185373-001		Water	TDS	
QC331716	SDUP	of 185408-002		Water	TDS	
QC331717	SDUP	of 185408-008		Water	TDS	
QC331718	SDUP	of 185408-010		Water	TDS	

NDMA

PACIFIC ANALYTICAL, INC.

6056 Corte Del Cedro • Carlsbad, CA 92011
(760) 496-2200 • FAX (760) 496-2211

NARRATIVE REPORT
Method 1625M Semivolatiles

Curtis & Tompkins
2323 Fifth Street
Berkeley, CA 94710

03/29/06

Attn: Steve Stanley

PA Reference: 2526

Sample: NKGW03

Semivolatiles analysis:

The sample was extracted and analyzed by Method 1625C, modified for the lowest possible detection limits. A 1000 mL aliquot was spiked with 0.01 ug of N-Nitrosodimethylamine-d6 and extracted with continuous liquid-liquid extractors for 24 hours. The sample extract was concentrated to a final volume of 0.10 mL and spiked with 0.01 ug of 2,2'-Difluorobiphenyl as an internal recovery standard. The extracts were analyzed by GC/MS with the mass spectrometer operating in the "Specific Ion Mode" for greater sensitivity and lower detection limits. The instrument was calibrated with five initial calibration standards ranging from 0.02 ug/mL to 1.00 ug/mL. A recent method detection limit study suggests the instrument is capable of detecting N-Nitrosodimethylamine (NNDMA) at a concentration of 0.0005 ug/L in a 1 liter sample. However our practical quantitation limit is 0.002 ug/L for a 1 liter sample. Any samples where NNDMA was detected at a concentration above 0.0005 ug/L but below 0.002 ug/L have an estimated concentration listed marked with a "J".

On-going Precision and Recovery

A laboratory blank (P&R) was spiked with 0.002 ug of NNDMA and 0.01 ug of its labeled analog, and extracted and analyzed like a sample for each extraction batch. Recoveries for NNDMA and its Label are within the method specified recovery limits for the P&R's associated with the samples.

Laboratory Blank

A laboratory blank was extracted and analyzed like the sample with each extraction batch. All of the laboratory blanks associated with the samples have no NNDMA detected at a concnetration which exceeds the detection limit.

Samples

The sample has no NNDMA detected at a concentration which exceeds the method detection limit.

This data package includes a summary page followed by a chromatogram and a close-up of the extracted ion current profile of NNDMA and its labeled analog. This is followed by a raw data printout with areas and scan numbers, an finally a "Quantitation Results" page which lists extract concentrations in ug/mL.

Please contact Chris Burbach or Steve Parsons at (760) 496-2200 if there are any questions concerning this data package.

Chris Burbach
GC/MS Supervisor

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900
(510) 486-0532

Project Number: 185463
Site: Presidio

Subcontract Laboratory:
Pacific Analytical, Inc.
6056 Corte del Cedro
Carlsbad, CA 92009
(760) 496-2200
ATTN: Steve Parson

Results due: Report Level: III

Please send report to: Steve Stanley
*** Please report using Sample ID rather than C&T Lab #.

Sample ID	Sampled	Matrix	Analysis	C&T Lab #	Comments
NKGW03	03/10 11:30	Water	NDMA	185463-001	

Notes:	Relinquished By:	Received By:
	Date/Time: 3/13/06 1427	Date/Time: 3/14/06 1015

Signature on this form constitutes a firm Purchase Order for the services requested above.

EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

NKGW03

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000.000 ml
Concentrated Extract Volume: 100 ul
Injection Volume: 1 ul

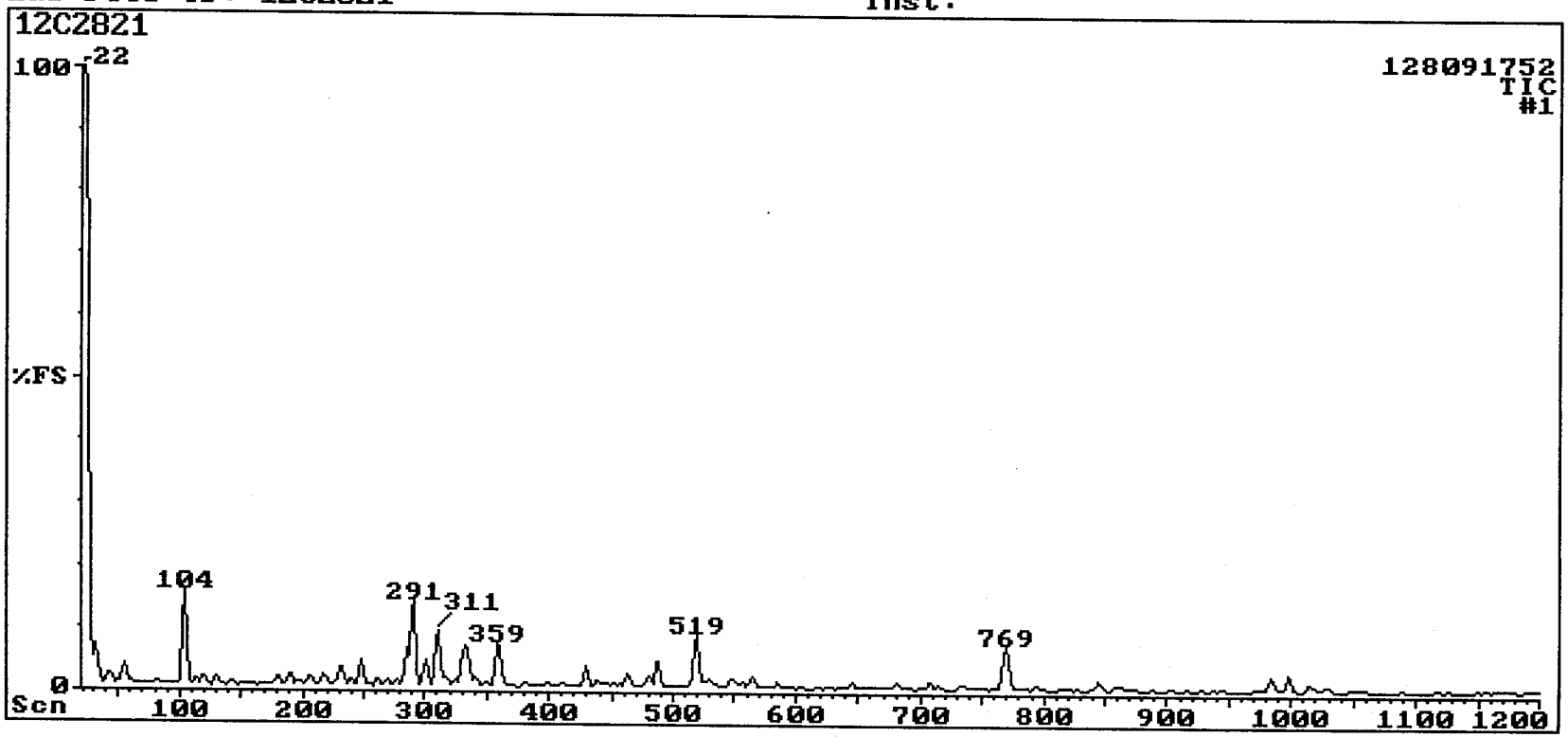
Lab Sample ID: 2526-001
Lab File ID: 12C2821
Date Sampled: 03/10/06
Date Extracted: 03/15/06
Date Analyzed: 03/28/06
Time Analyzed: 1945

Compound	Sample Conc ug/L		PQL ug/L	Labeled Cpd. Recovery
N-Nitrosodimethylamine		U	0.0020	53 %

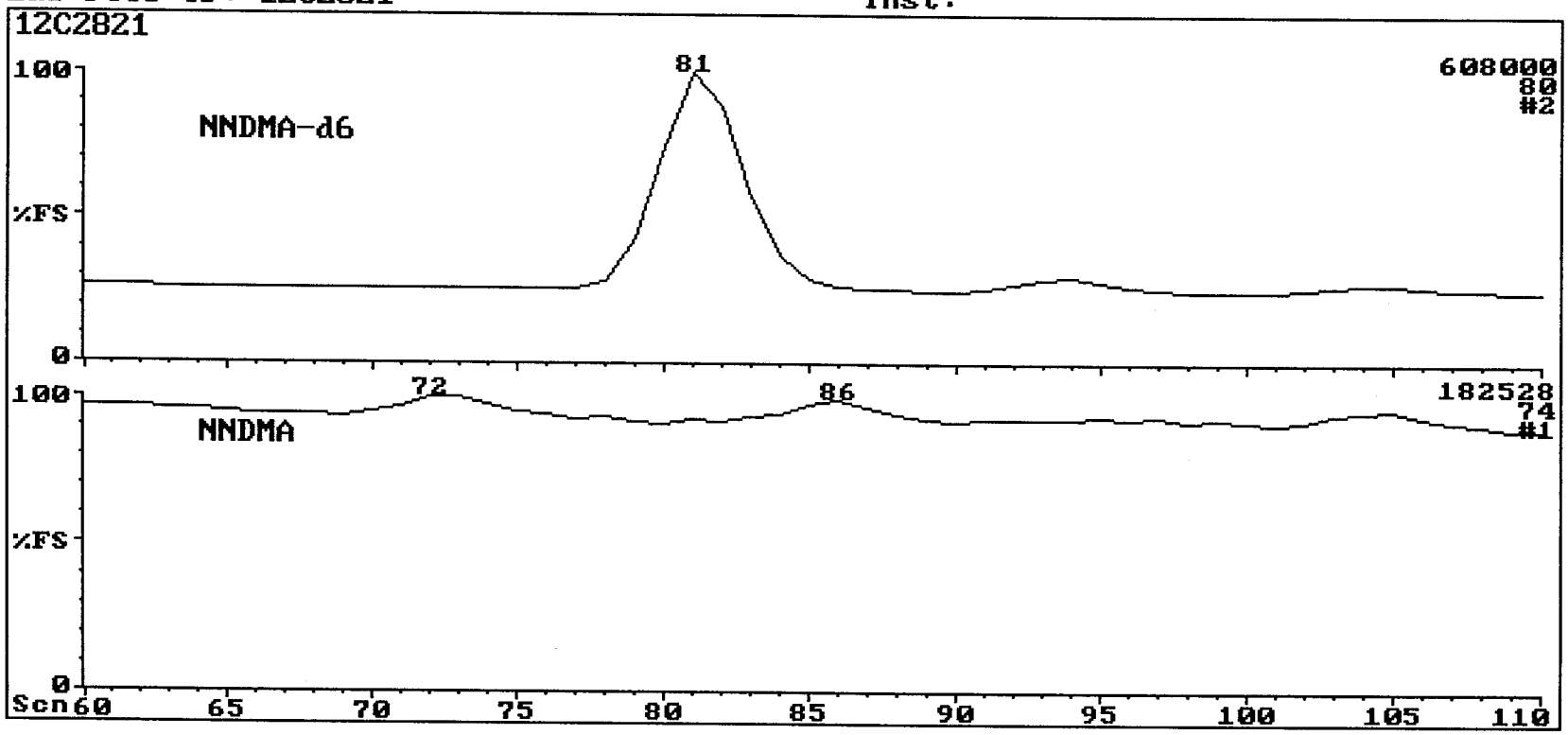
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve
na = Compound has no corresponding labeled reference
PQL = Practical Quantitation Limit

NNDMA MDL = 0.0005 ug/L

Sample: NKGW03 2526-001 Analyzed: 03/28/06 1945
Lab File ID: 12C2821 Inst:



Sample: NKGW03 2526-001 Analyzed: 03/28/06 1945
Lab File ID: 12C2821 Inst:



6

Sample No.: NKGW03 2526-001 Analyzed: 03/28/06 1945
File ID: 12C2821 Instrument ID: VG12

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Interim Report LAB-BASE FIND 03/29/~~06~~ 06 0518

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JS 3/29/06

Raw Datafile : 12C2821 Quan DB : 12C2821
Find DB : NNDMA Scan DB :

No.	Spectrum MAT	Scan FOR	Scan REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	73	100	1	11262312	bb	998	997	190	2,2'-Difluorobiphenyl
2	100	70	99	0	1578688	bb	81	81	80	N-Nitrosodimethylamine-d6
3	65	35	69	0	58624	!!	86	86	74	N-Nitrosodimethylamine
	54	34	68	5	10752	!!	91			
	45	32	73	-8	2496	!!	78			

Quantitation Results

Sample: NKGW03 Lab ID: 2526-001 File: 12C2821
Instr: VG12 Acqu Date: 03/28/06 Acqu Time: 1945
Initial Size: 1000.0000 Final Size: 0.1000 ml

Compound	Target Conc ug/ml	Sample Conc ug/L	% Label Rec	Limits
N-Nitrosodimethylamine	~~0.00358~~	~~0.00036~~ BDL 03/28/06	53	25 - 175

METHOD 1625 ISOTOPE DILUTION
LABELED COMPOUNDS

Lab Name: PACIFIC ANALYTICAL Instr. ID: VG12 Cal. Date: 03/28/06

FILE IDs: Conc1 = 12C2805
Conc2 = 12C2806
Conc3 = 12C2807
Conc4 = 12C2808
Conc5 = 12C2809

COMPOUND	RF Conc1	RF Conc2	RF Conc3	RF Conc4	RF Conc5	RF MEAN	% RSD
N-Nitrosodimethylamine-d6	0.273	0.265	0.262	0.258	0.256	0.263	2.6

METHOD 1625 ISOTOPE DILUTION
COMPOUNDS HAVING A LABELED REFERENCE

Lab Name: PACIFIC ANALYTICAL Instr. ID: VG12 Cal. Date: 03/28/06

LAB FILE IDs:
Conc1 = 12C2805
Conc2 = 12C2806
Conc3 = 12C2807
Conc4 = 12C2808
Conc5 = 12C2809

COMPOUND	RX	RR Conc1	RR Conc2	RR Conc3	RR Conc4	RR Conc5
N-Nitrosodimethylami	999999	0.208	0.500	0.971	4.774	9.131

CONCENTRATIONS OF CALIBRATION STANDARDS

	Compound	Ical Type	Resp Ref	Calibration Standards Conc1 ug/L	Conc2 ug/L	Conc3 ug/L	Conc4 ug/L	Conc5 ug/L
1	2,2'-Difluorobiphenyl	I	1	0.10	0.10	0.10	0.10	0.10
2	N-Nitrosodimethylamine	L	1	0.10	0.10	0.10	0.10	0.10
3	N-Nitrosodimethylamine	U	2	0.02	0.05	0.10	0.50	1.00

I = internal standard; L = labeled compound; U = unlabeled native
O = compound referenced to internal standard

Sample No.: 0.02 PPM STD NSTD0.02 Analyzed: 03/28/06 0846
File ID: 12C2805 Instrument ID: VG12

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Interim Report LAB-BASE FIND 03/28/~~85~~ 06 1212

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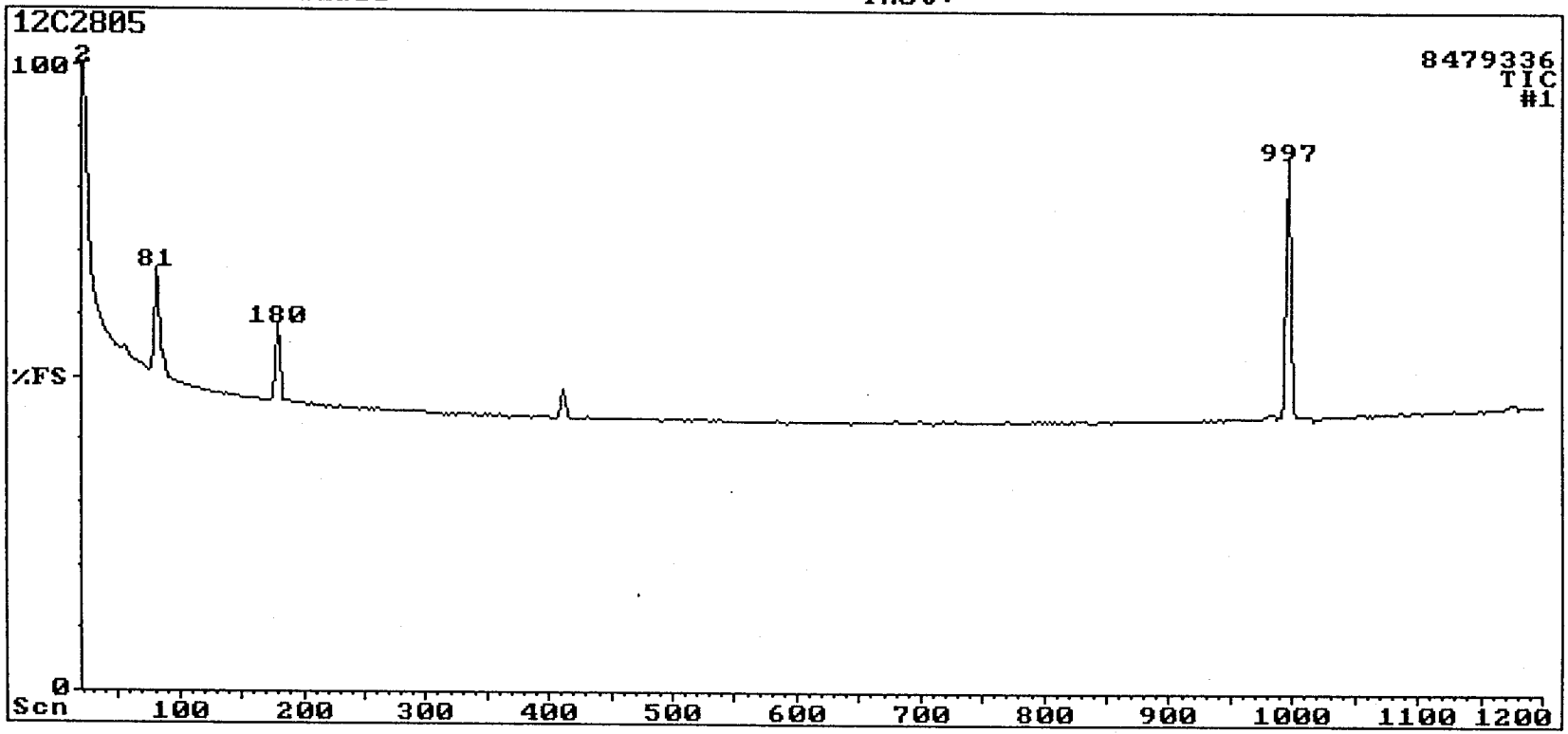
JS 3/28/06

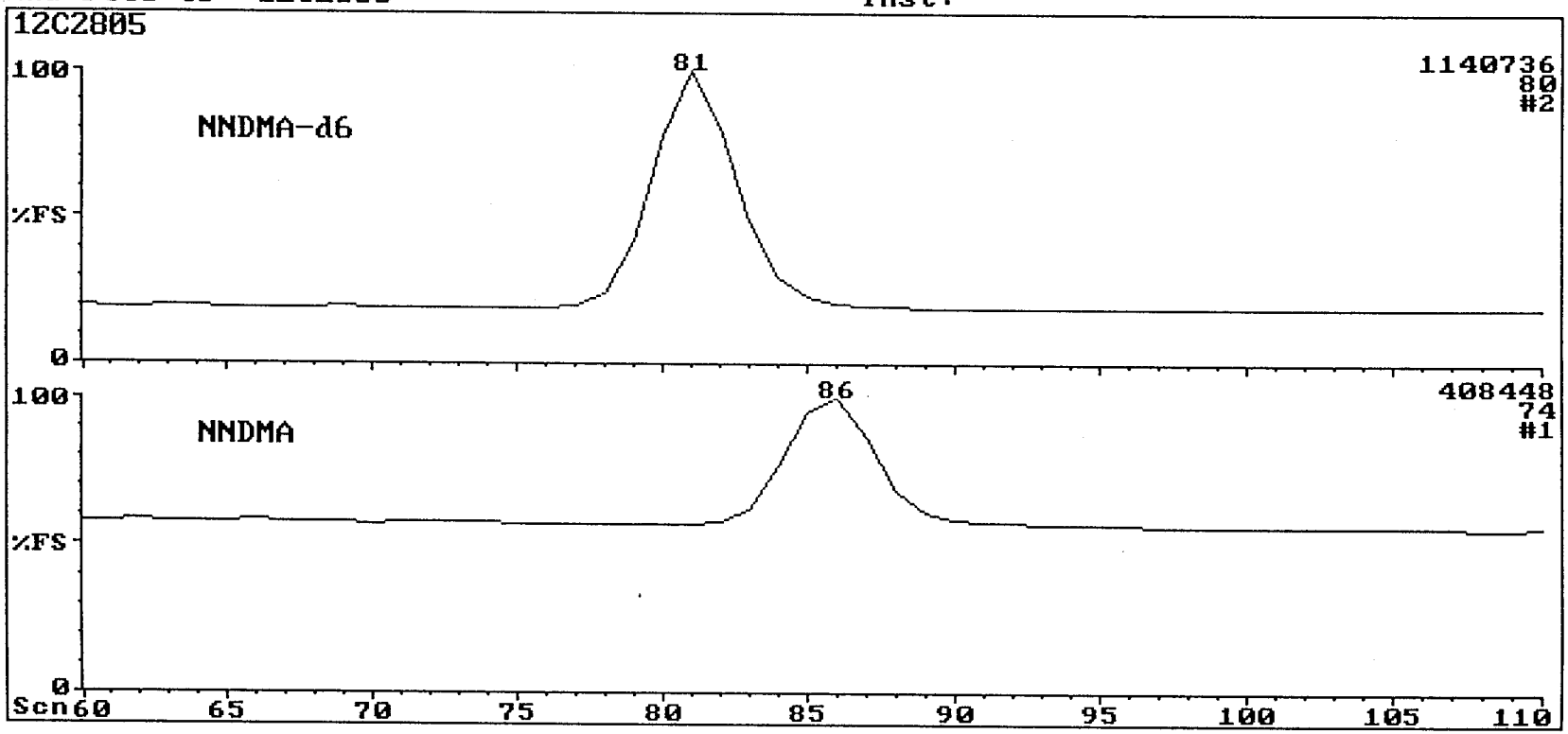
Raw Datafile : 12C2805 Quan DB : 12C2805
Find DB : NNDMA Scan DB :

No.	Spectrum MAT	Scan FOR	Scan REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	92	47	100	0	11705333	bv	997	997	190	2,2'-Difluorobiphenyl
2	100	77	98	0	3197821	bv	81	81	80	N-Nitrosodimethylamine-d6
3	59	23	71	0	664128	!!	86	86	74	N-Nitrosodimethylamine
	39	18	64	6	15257	!!	92			
	35	18	64	8	11639	!!	94			

Sample: 0.02 PPM STD NSTD0.02 Analyzed: 03/28/06 0846
Lab File ID: 12C2805 Inst:



Sample: 0.02 PPM STD NSTD0.02 Analyzed: 03/28/06 0846
Lab File ID: 12C2805 Inst:



Sample No.: 0.05 PPM STD NSTD0.05 Analyzed: 03/28/06 0927
File ID: 12C2806 Instrument ID: VG12

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Interim Report LAB-BASE FIND 03/28/~~86~~ 06 1213

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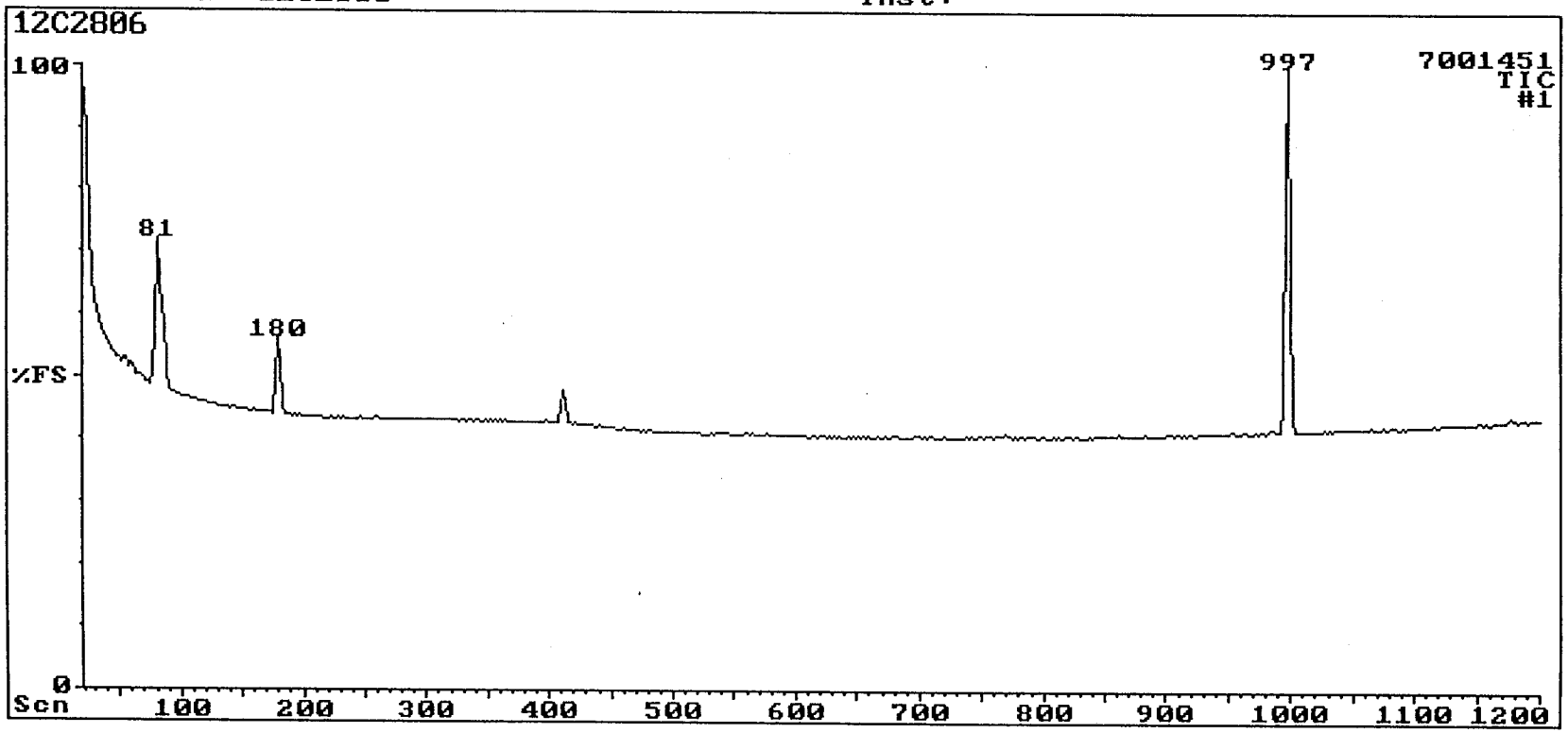
03/28/06

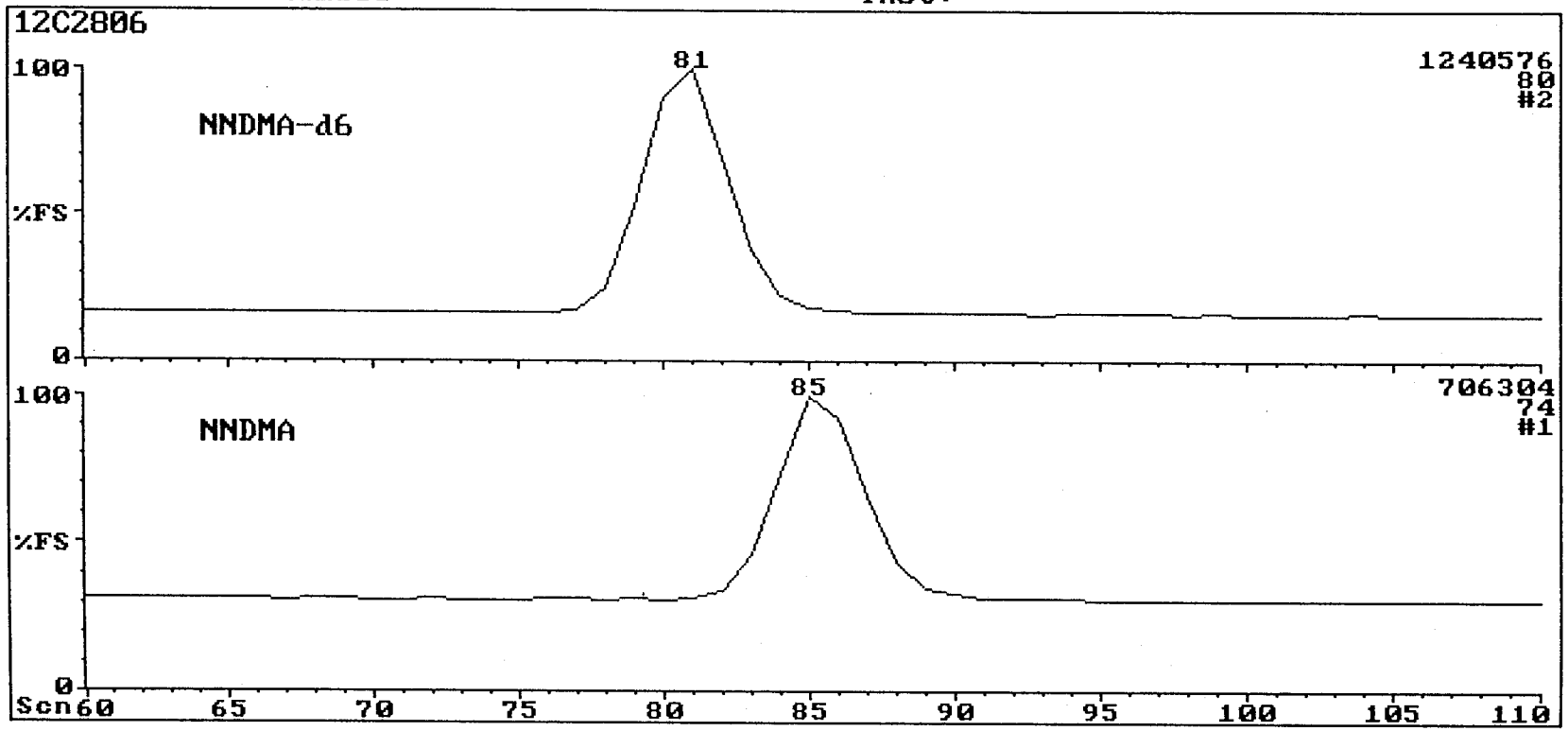
Raw Datafile : 12C2806 Quan DB : 12C2806
Find DB : NNDMA Scan DB :

No.	Spectrum MAT	Scan FOR	Scan REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	94	57	100	-1	13624762	bv	997	998	190	2,2'-Difluorobiphenyl
2	100	78	99	0	3610834	bv	81	81	80	N-Nitrosodimethylamine-d6
3	70	35	81	-1	1807264	vv	85	86	74	N-Nitrosodimethylamine

Sample: 0.05 PPM STD NSTD0.05 Analyzed: 03/28/06 0927
Lab File ID: 12C2806 Inst:



Sample: 0.05 PPM STD NSTD0.05 Analyzed: 03/28/06 0927
Lab File ID: 12C2806 Inst:



Sample No.: 0.10 PPM STD NSTD0.10 Analyzed: 03/28/06 1009
File ID: 12C2807 Instrument ID: VG12

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Interim Report LAB-BASE FIND 03/28/~~86~~ 06 1214

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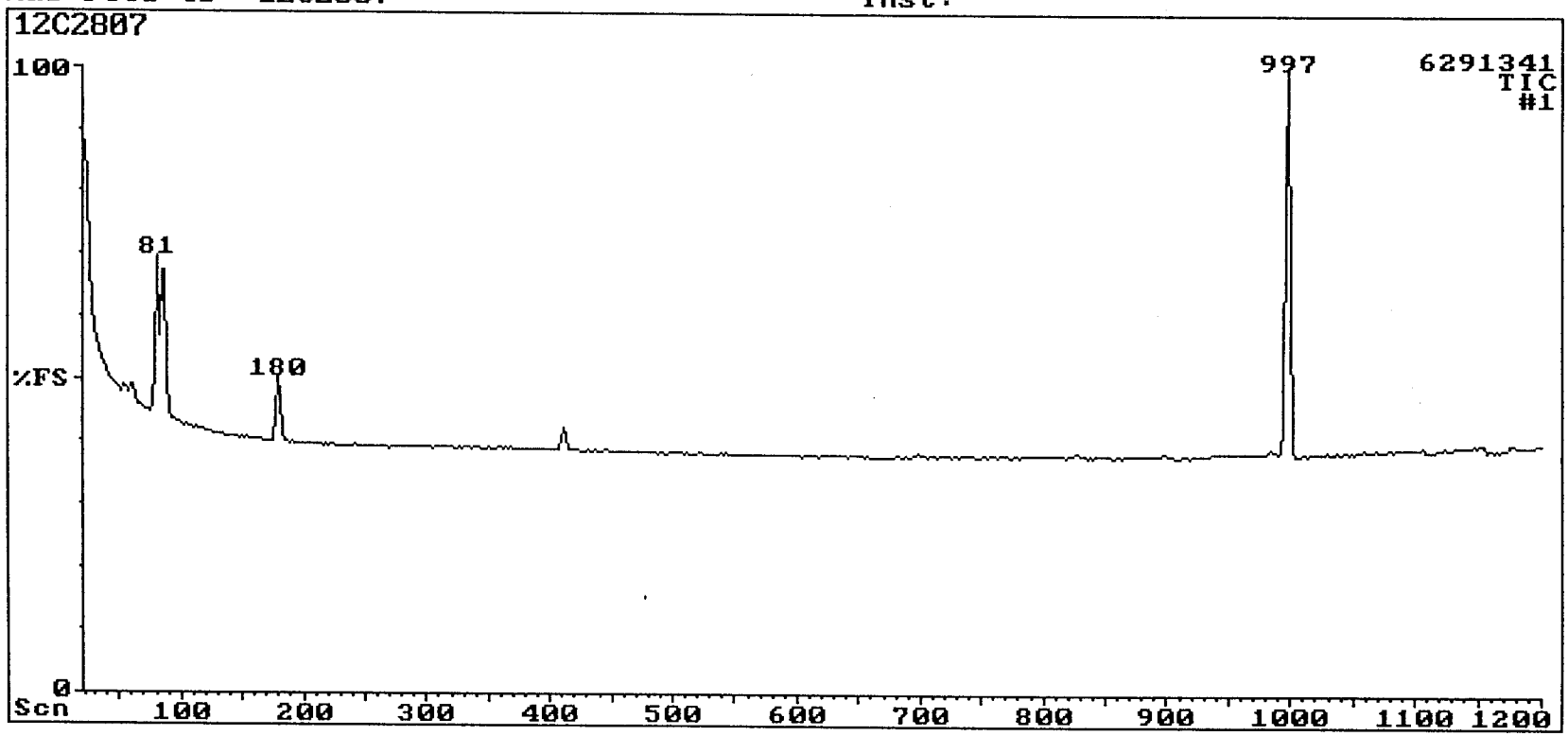
03/28/06

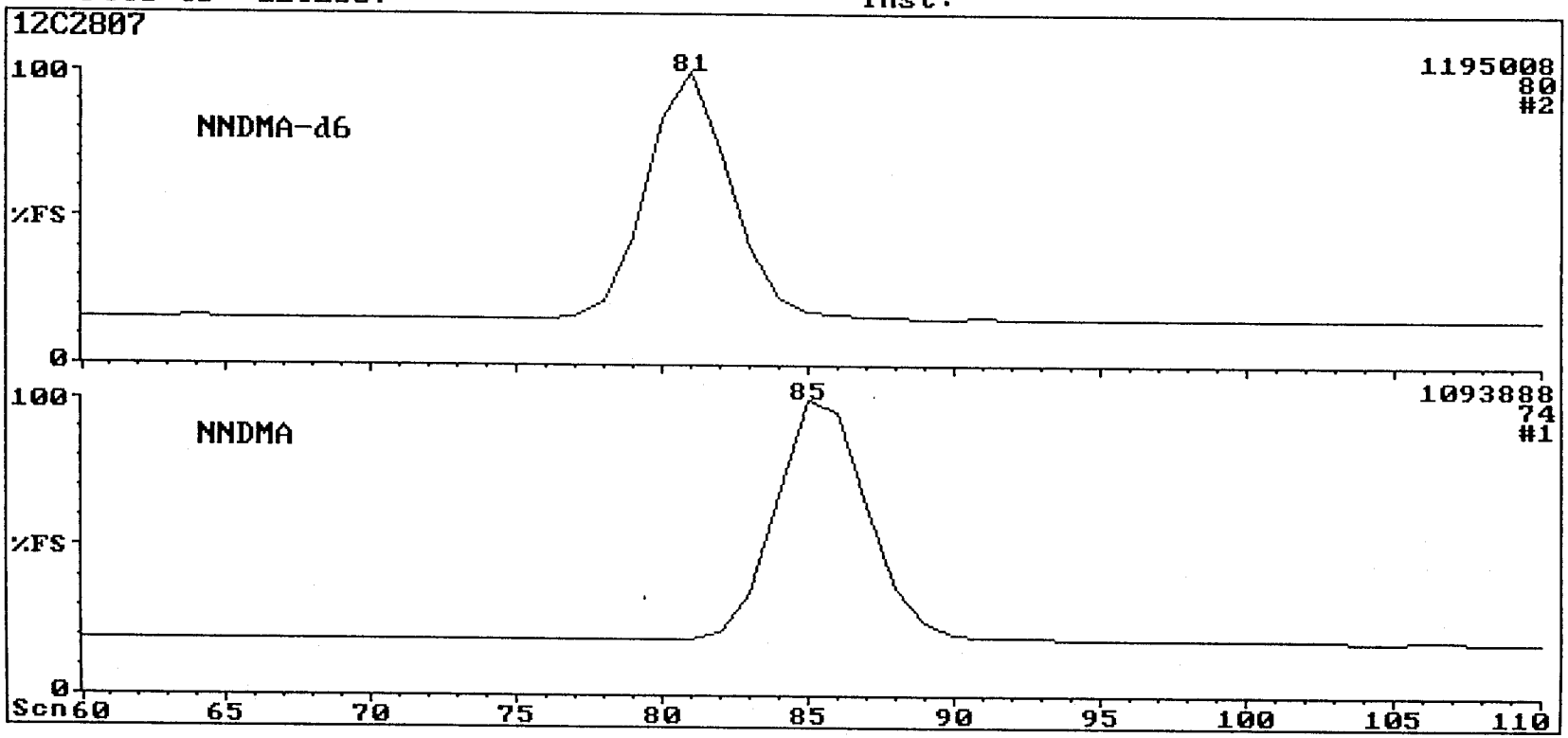
Raw Datafile : 12C2807 Quan DB : 12C2807
Find DB : NNDMA Scan DB :

No.	Spectrum MAT	Scan FOR	Scan REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	97	61	100	-1	12963872	bb	997	998	190	2,2'-Difluorobiphenyl
2	100	78	100	0	3401352	bv	81	81	80	N-Nitrosodimethylamine-d6
3	80	47	86	-1	3302182	bv	85	86	74	N-Nitrosodimethylamine

Sample: 0.10 PPM STD NSTD0.10 Analyzed: 03/28/06 1009
Lab File ID: 12C2807 Inst:



Sample: 0.10 PPM STD NSTD0.10 Analyzed: 03/28/06 1009
Lab File ID: 12C2807 Inst:



Sample No.: 0.50 PPM STD NSTD0.50 Analyzed: 03/28/06 1050
File ID: 12C2808 Instrument ID: VG12

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Interim Report LAB-BASE FIND 03/28/~~06~~ 06 1215

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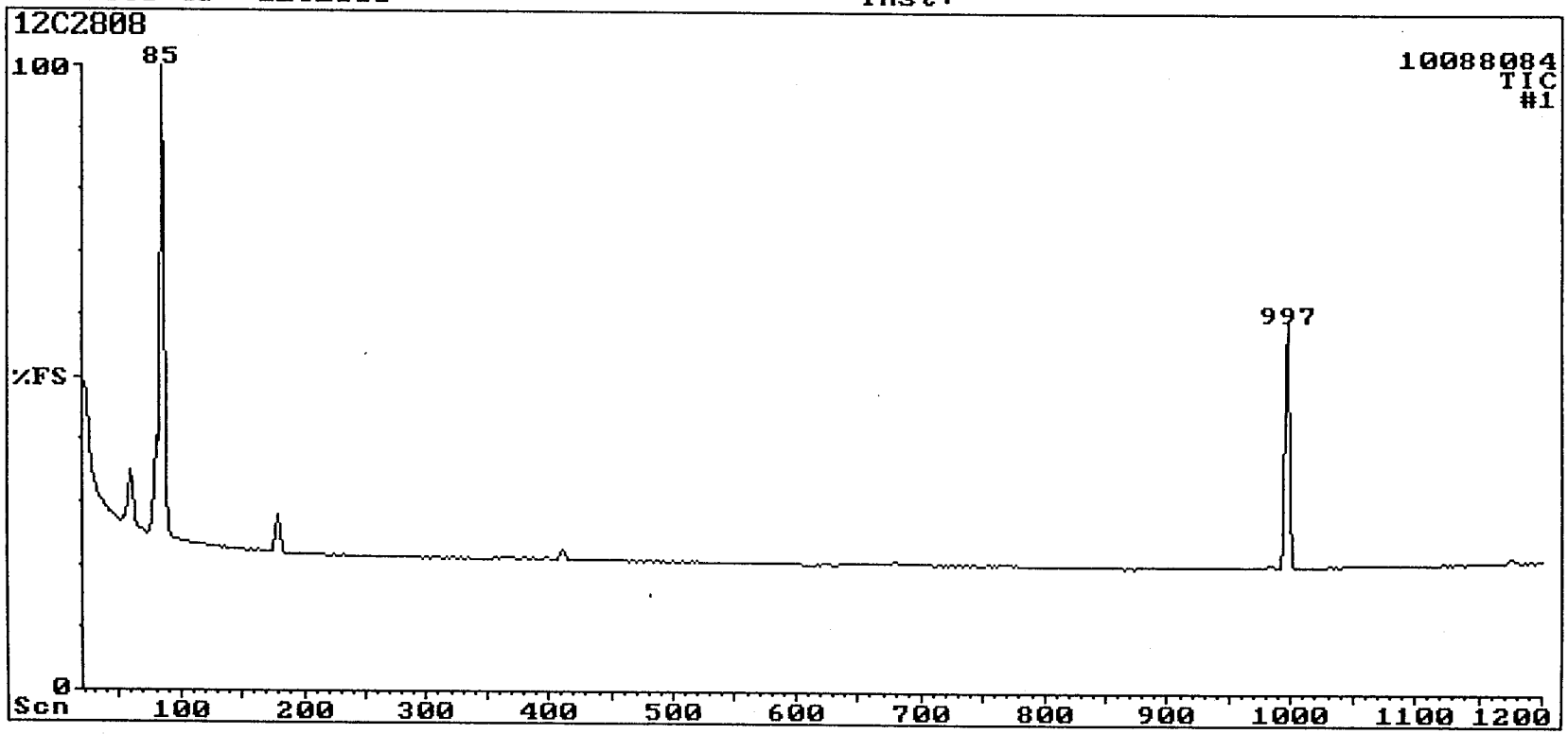
03/28/06

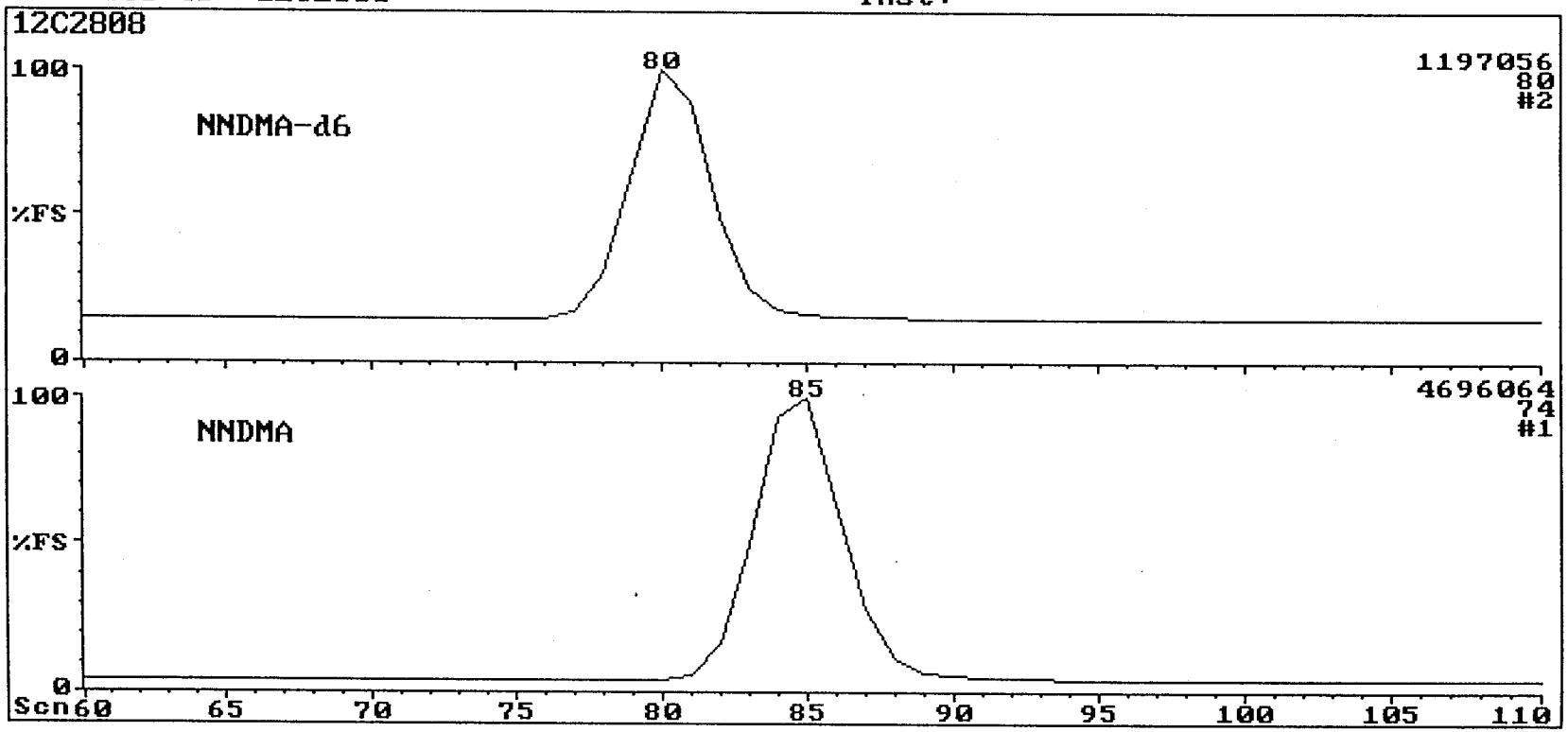
Raw Datafile : 12C2808 Quan DB : 12C2808
Find DB : NNDMA Scan DB :

No.	Spectrum MAT	Scan FOR	Scan REV	Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	99	65	100	-1	13044297	vv	997	998	190	2,2'-Difluorobiphenyl
2	100	76	100	-1	3361353	bv	80	81	80	N-Nitrosodimethylamine-d6
3	100	76	90	-1	16048146	bv	85	86	74	N-Nitrosodimethylamine

Sample: 0.50 PPM STD NSTD0.50 Analyzed: 03/28/06 1050
Lab File ID: 12C2808 Inst:



Sample: 0.50 PPM STD NSTD0.50 Analyzed: 03/28/06 1050
Lab File ID: 12C2808 Inst:



Sample No.: 1.00 PPM STD NSTD1.00 Analyzed: 03/28/06 1131
File ID: 12C2809 Instrument ID: VG12

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Interim Report LAB-BASE FIND 03/28/~~86~~ 06 1215

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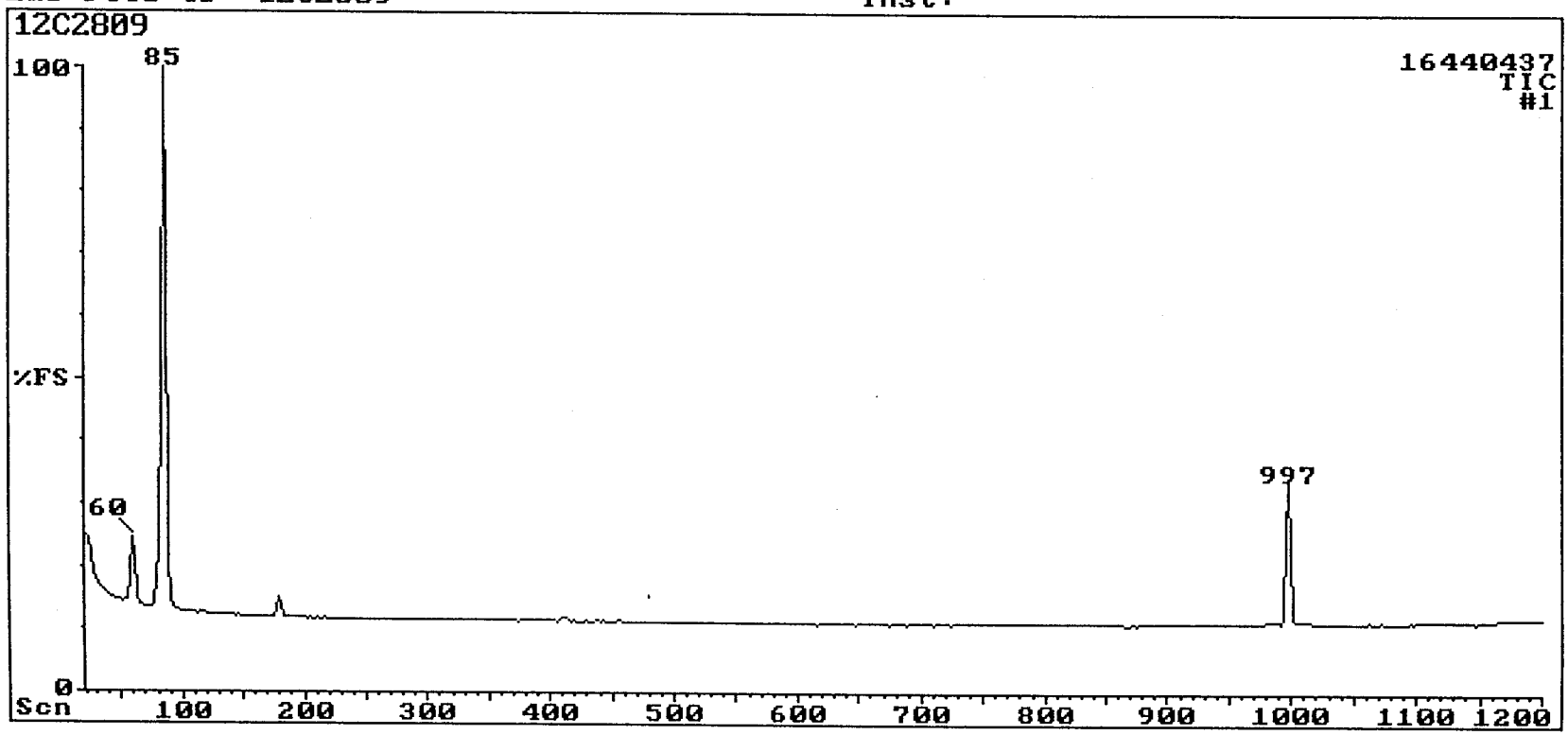
03/28/06

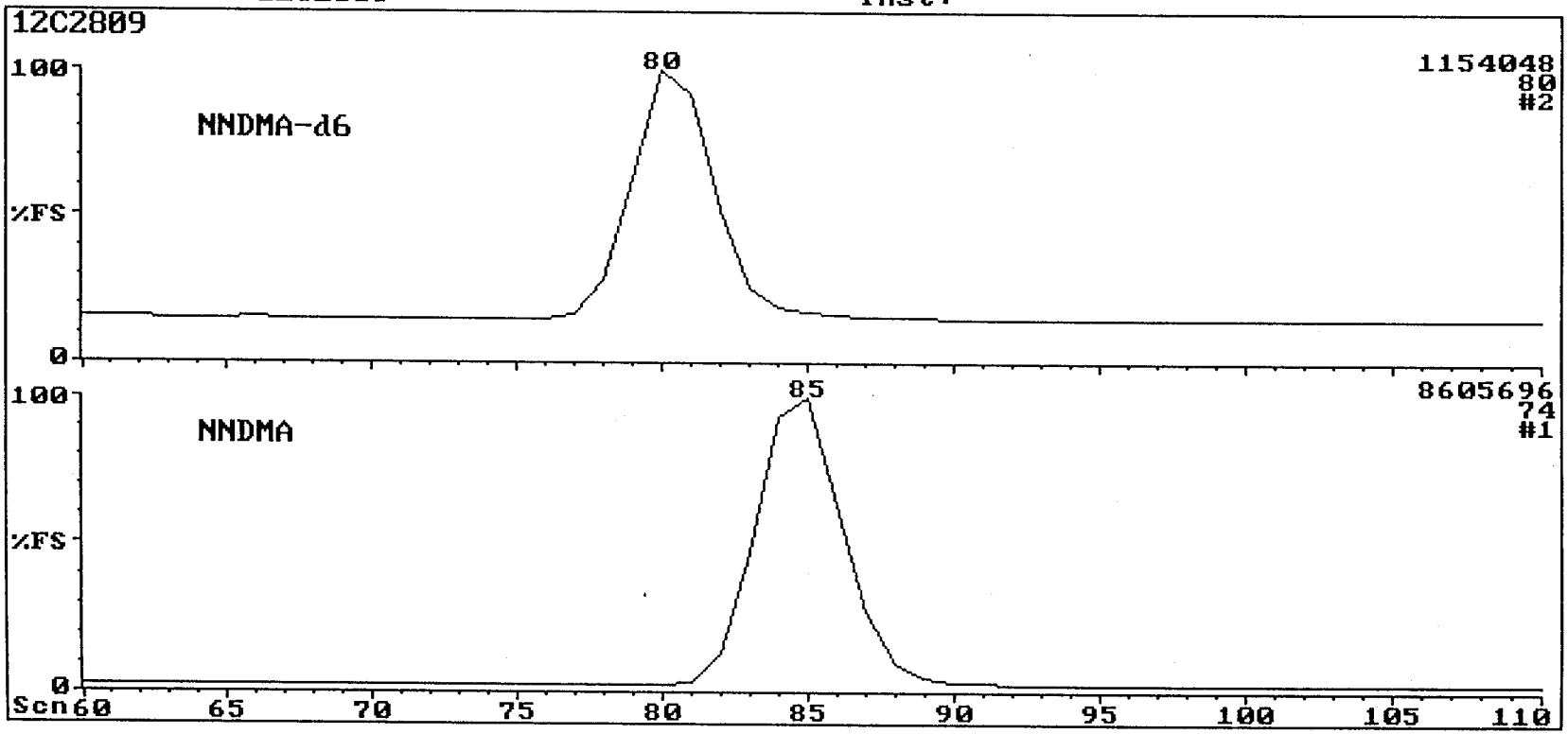
Raw Datafile : 12C2809 Quan DB : 12C2809
Find DB : NNDMA Scan DB :

No.	Spectrum MAT	FOR	REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	65	100	0	12775864	bb	997	997	190	2,2'-Difluorobiphenyl
2	100	76	100	-1	3264154	vv	80	81	80	N-Nitrosodimethylamine-d6
3	100	83	91	-1	29804297	bv	85	86	74	N-Nitrosodimethylamine

Sample: 1.00 PPM STD NSTD1.00 Analyzed: 03/28/06 1131
Lab File ID: 12C2809 Inst:



Sample: 1.00 PPM STD NSTD1.00 Analyzed: 03/28/06 1131
Lab File ID: 12C2809 Inst:



Sample No.: 5.00 PPM STD NSTD5.00 Analyzed: 03/28/06 1212
File ID: 12C2810 Instrument ID: VG12

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Interim Report LAB-BASE FIND 03/28/~~86~~ 06 1235

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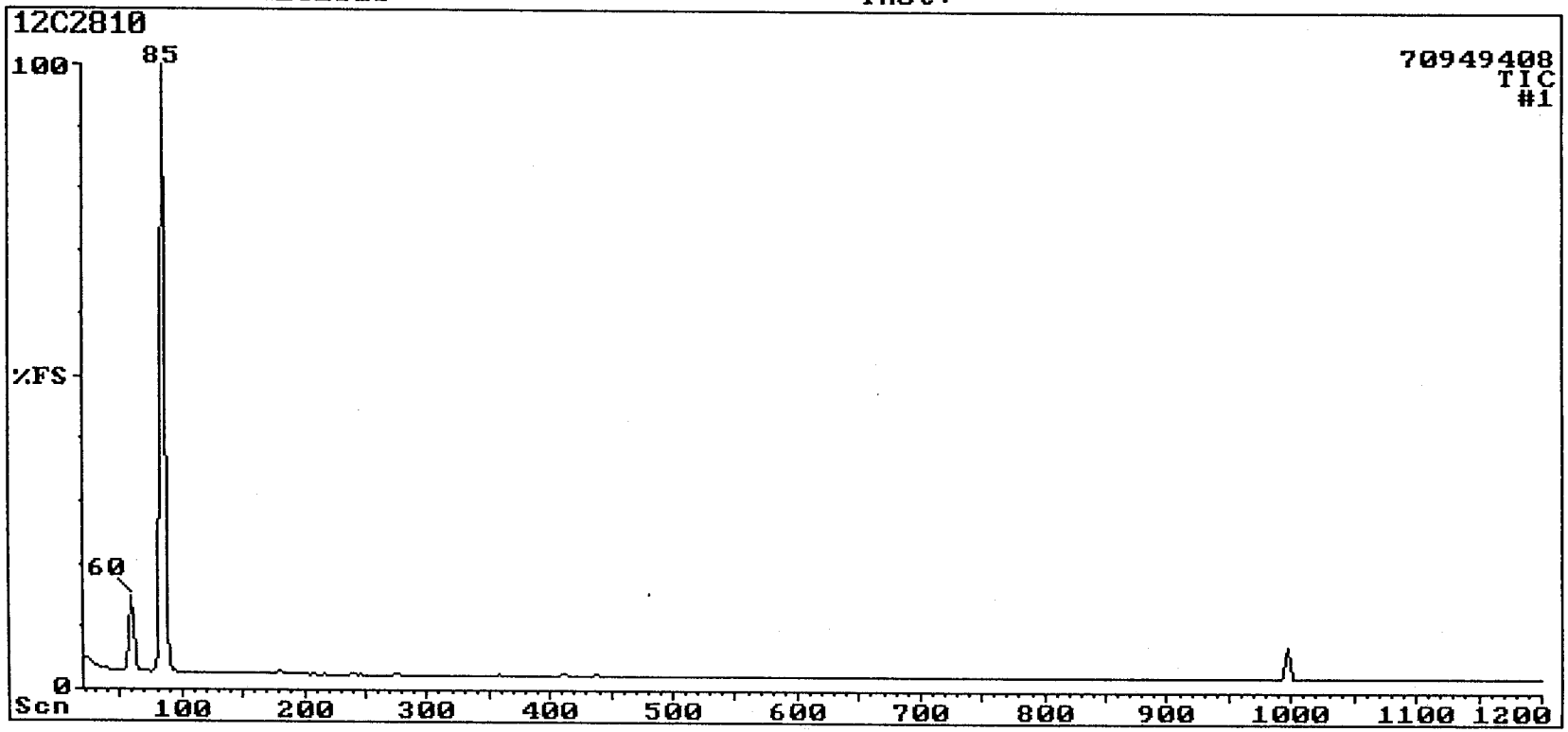
03/28/06

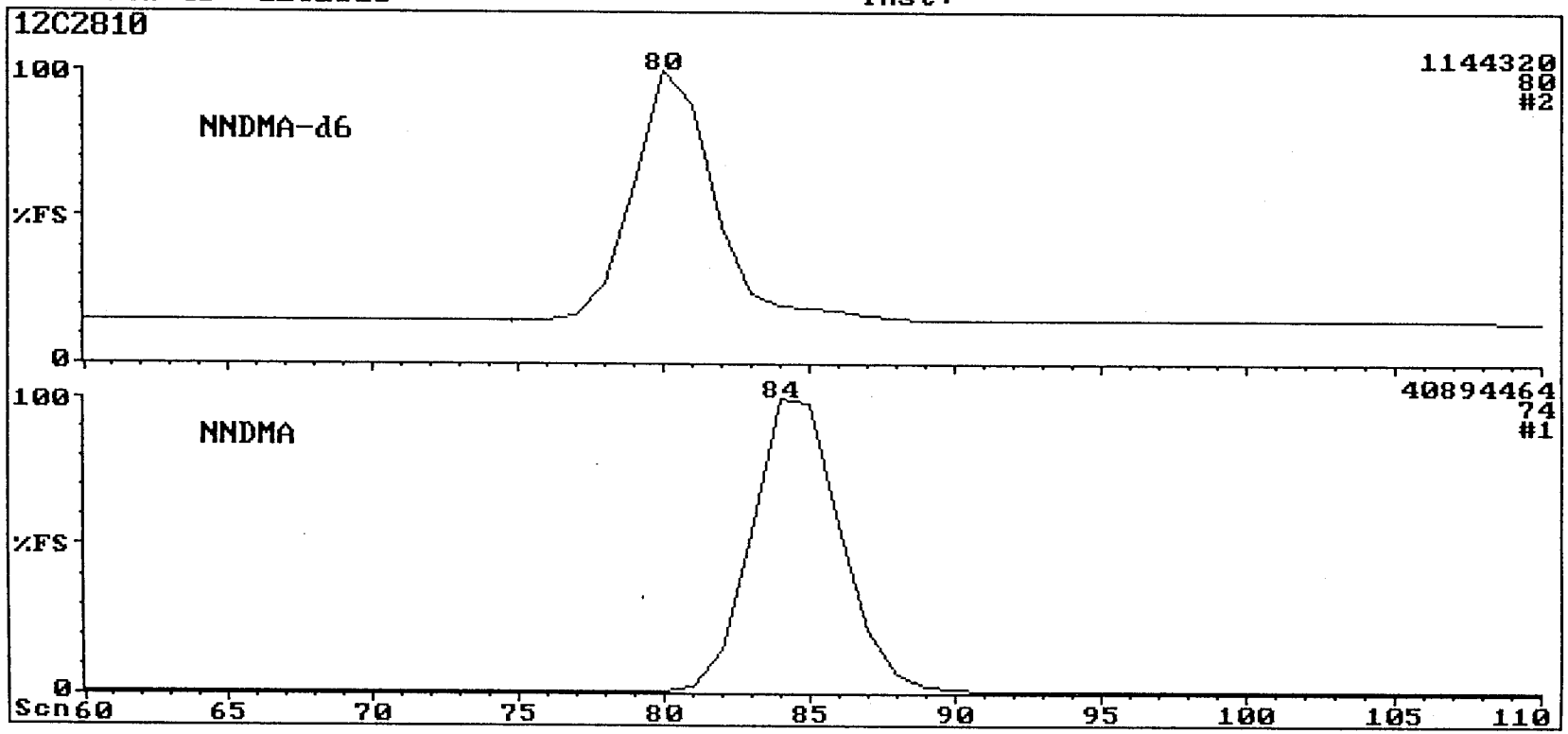
Raw Datafile : 12C2810 Quan DB : 12C2810
Find DB : NNDMA Scan DB :

No.	Spectrum MAT	FOR	REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	67	100	0	12367912	bb	997	997	190	2,2'-Difluorobiphenyl
2	100	74	100	-1	3201472	bb	80	81	80	N-Nitrosodimethylamine-d6
3	100	91	93	-2	145586813	b?	84	86	74	N-Nitrosodimethylamine

Sample: 5.00 PPM STD NSTD5.00 Analyzed: 03/28/06 1212
Lab File ID: 12C2810 Inst:



Sample: 5.00 PPM STD NSTD5.00 Analyzed: 03/28/06 1212
Lab File ID: 12C2810 Inst:



EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

P&R P54

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000.000 ml
Concentrated Extract Volume: 100 ul
Injection Volume: 1 ul

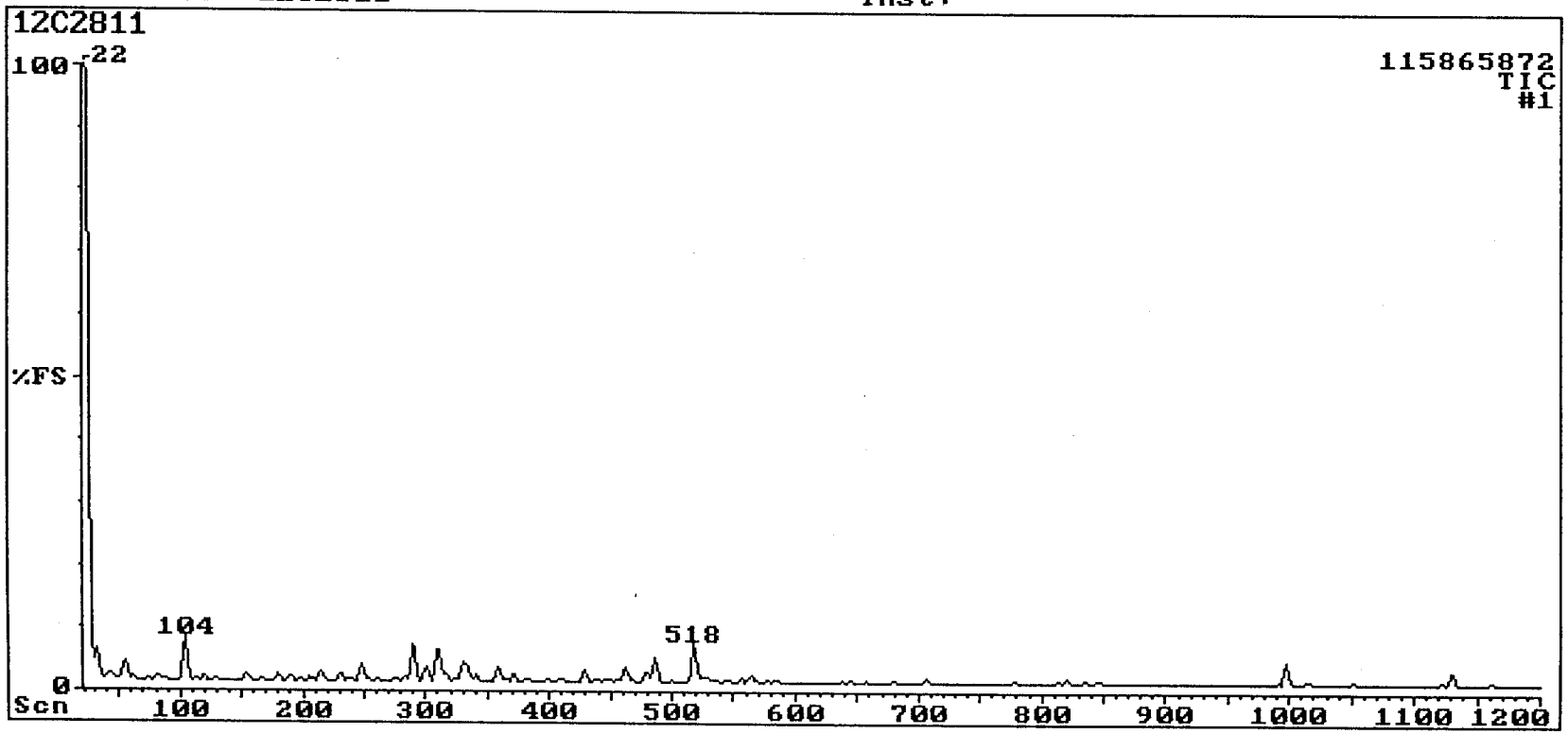
Lab Sample ID: P&R P54
Lab File ID: 12C2811
Date Sampled:
Date Extracted: 03/15/06
Date Analyzed: 03/28/06
Time Analyzed: 1253

Compound	Sample Conc ug/L	Spike Amt. ug/L	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.0021	0.0020	47 %

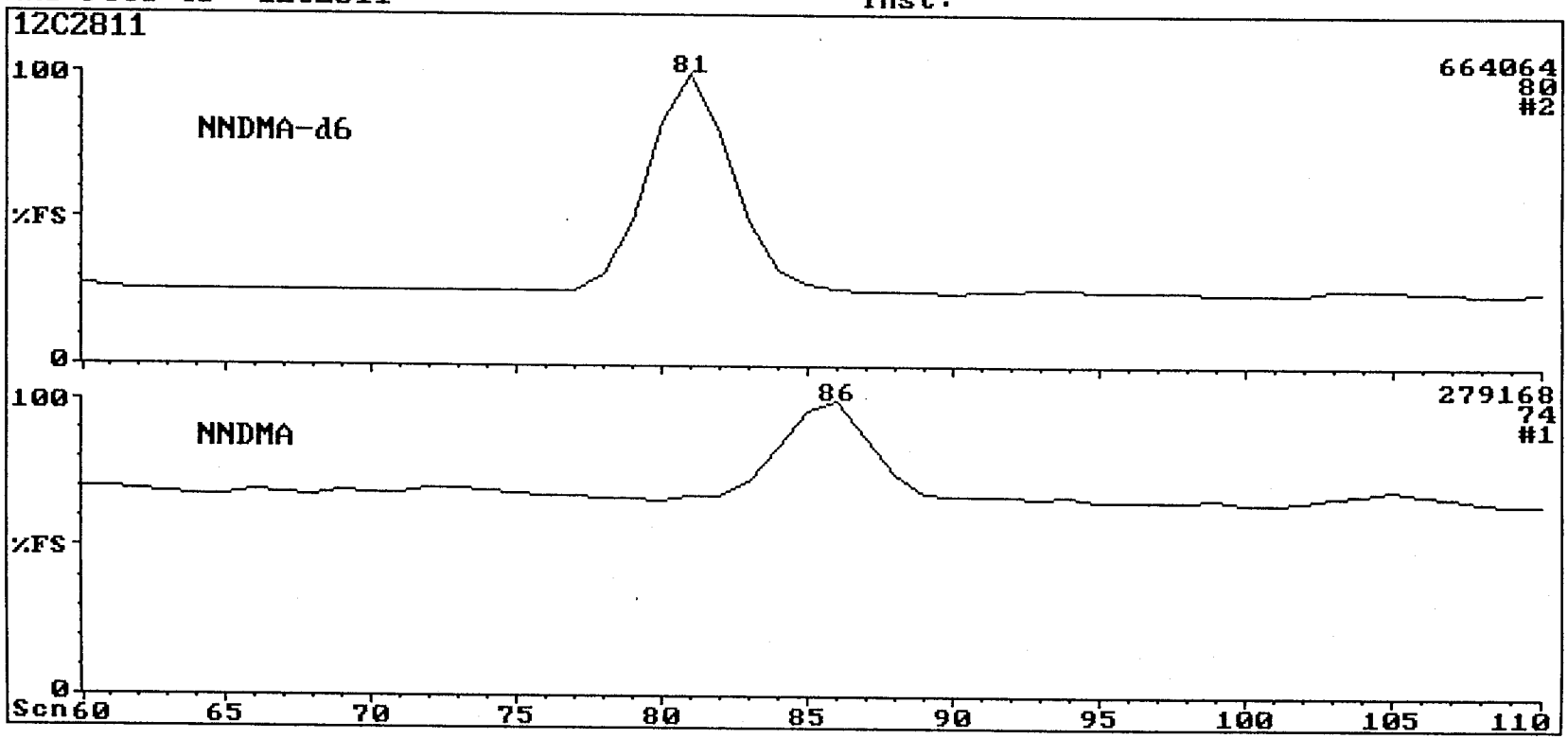
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve
na = Compound has no corresponding labeled reference
PQL = Practical Quantitation Limit

NNDMA MDL = 0.0005 ug/L

Sample: P&R P54 P&R P54 Analyzed: 03/28/06 1253
Lab File ID: 12C2811 Inst:



Sample: P&R P54 P&R P54 Analyzed: 03/28/06 1253
Lab File ID: 12C2811 Inst:



Sample No.: P&R P54 P&R P54 Analyzed: 03/28/06 1253
File ID: 12C2811 Instrument ID: VG12

Interim Report LAB-BASE FIND 03/28/~~85~~ 06 1314
03/28/06

Raw Datafile : 12C2811 Quan DB : 12C2811
Find DB : NNDMA Scan DB :

No.	Spectrum MAT	Scan FOR	Scan REV	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	QM	Compound Name
1	100	69	100	0	13694572	vb	997	997	190	2,2'-Difluorobiphenyl
2	100	70	100	0	1690158	bv	81	81	80	N-Nitrosodimethylamine-d6
3	66	35	70	0	369429	!!	86	86	74	N-Nitrosodimethylamine
	42	29	68	8	13059	!!	94			

On-going Accuracy (P&R) Check

Sample: P&R P54 Lab ID: P&R P54 File: 12C2811
Instr: VG12 Acqu Date: 03/28/06 Acqu Time: 1253
Initial Size: 1000.0000 Final Size: 0.1000 ml

Compound	Target Conc ug/ml	% Spike Rec	Limits	% Label Rec	Limits
N-Nitrosodimethylamine	0.02111	106	70 - 130	47	25 - 175

EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B11621

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000.000 ml
Concentrated Extract Volume: 100 ul
Injection Volume: 1 ul

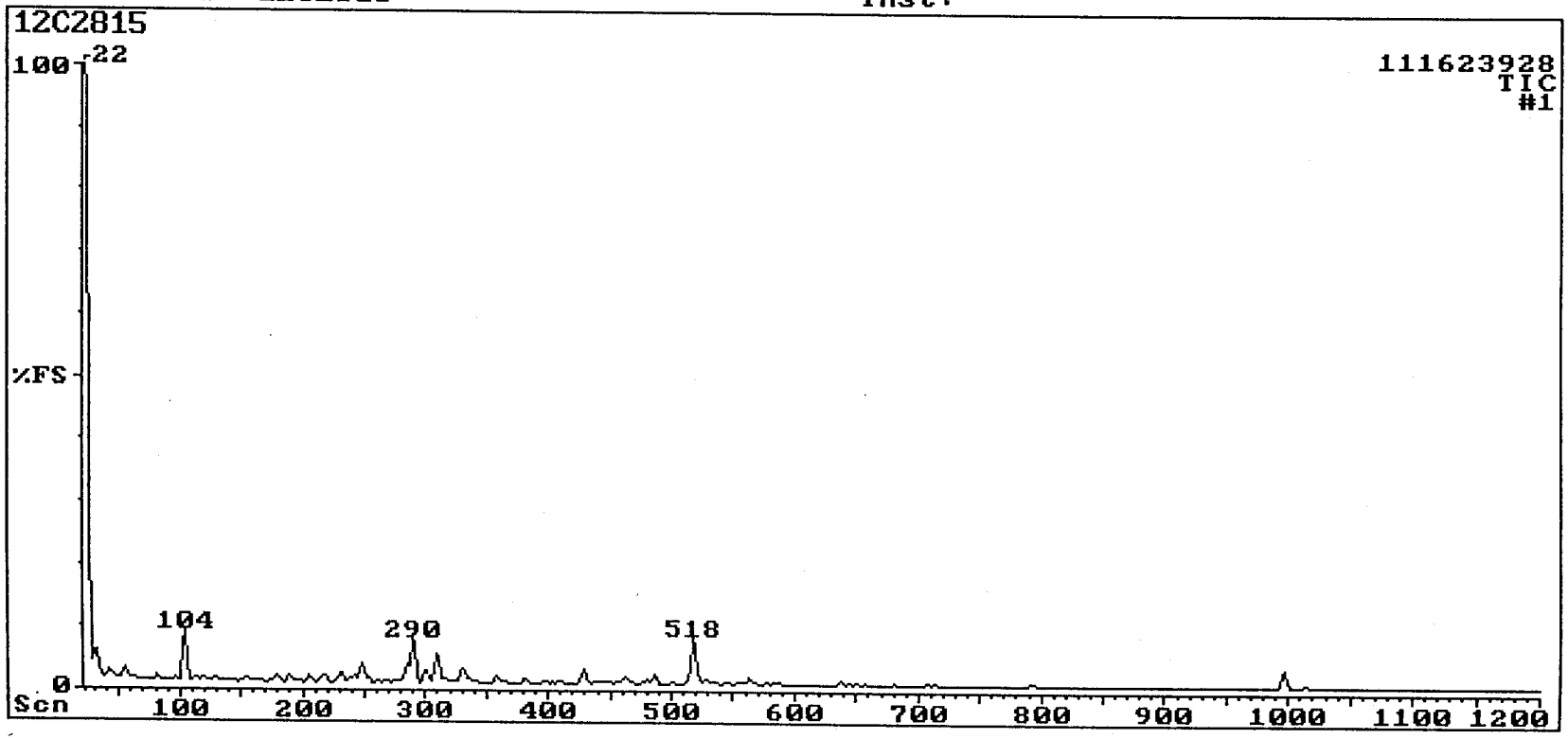
Lab Sample ID: 11621
Lab File ID: 12C2815
Date Sampled:
Date Extracted: 03/15/06
Date Analyzed: 03/28/06
Time Analyzed: 1538

Compound	Sample Conc ug/L		PQL ug/L	Labeled Cpd. Recovery
N-Nitrosodimethylamine		U	0.0020	54 %

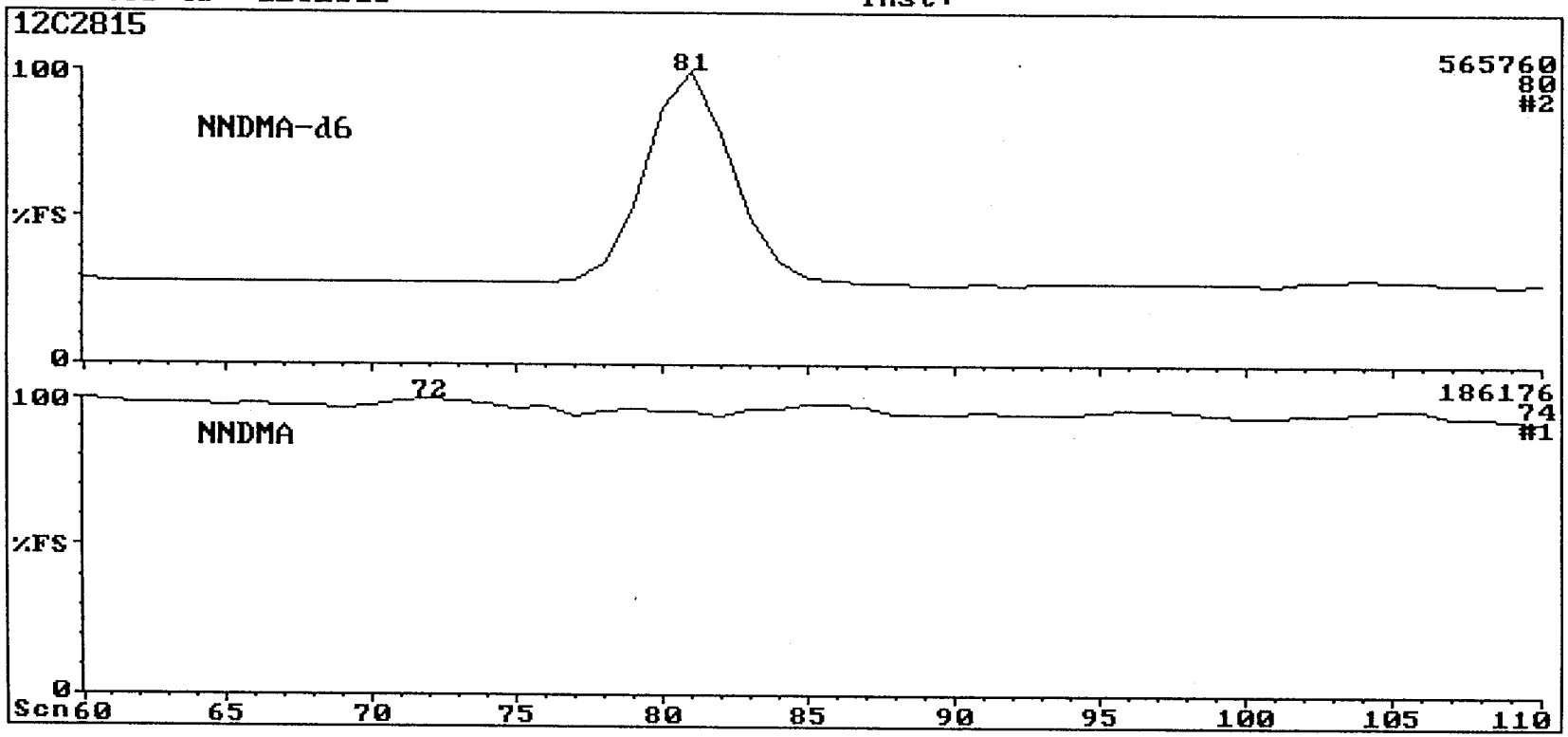
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve
na = Compound has no corresponding labeled reference
PQL = Practical Quantitation Limit

NNDMA MDL = 0.0005 ug/L

Sample: B11621 11621 Analyzed: 03/28/06 1538
Lab File ID: 12C2815 Inst:



Sample: B11621 11621 Analyzed: 03/28/06 1538
Lab File ID: 12C2815 Inst:



Sample No.: B11621 11621 Analyzed: 03/28/06 1538
File ID: 12C2815 Instrument ID: VG12

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Interim Report LAB-BASE FIND 03/29/~~86~~ 06 0514

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JS 3/29/06

Raw Datafile : 12C2815 Quan DB : 12C2815
Find DB : NNDMA Scan DB :

No.	Spectrum MAT	FOR	REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	71	100	0	10211472	vb	997	997	190	2,2'-Difluorobiphenyl
2	100	63	99	0	1440640	vv	81	81	80	N-Nitrosodimethylamine-d6
3	61	33	65	0	40640	!!	86	86	74	N-Nitrosodimethylamine
	49	33	64	5	7392	!!	91			
	42	32	65	-7	13056	!!	79			

Quantitation Results

Sample: B11621 Lab ID: 11621 File: 12C2815
Instr: VG12 Acqu Date: 03/28/06 Acqu Time: 1538
Initial Size: 1000.0000 Final Size: 0.1000 ml

Compound	Target Conc ug/ml	Sample Conc ug/L	% Label Rec	Limits
N-Nitrosodimethylamine	~~0.00272~~	0 ~~.00027~~ BDL 03/28/06	54	25 - 175

EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B11622

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000.000 ml
Concentrated Extract Volume: 100 ul
Injection Volume: 1 ul

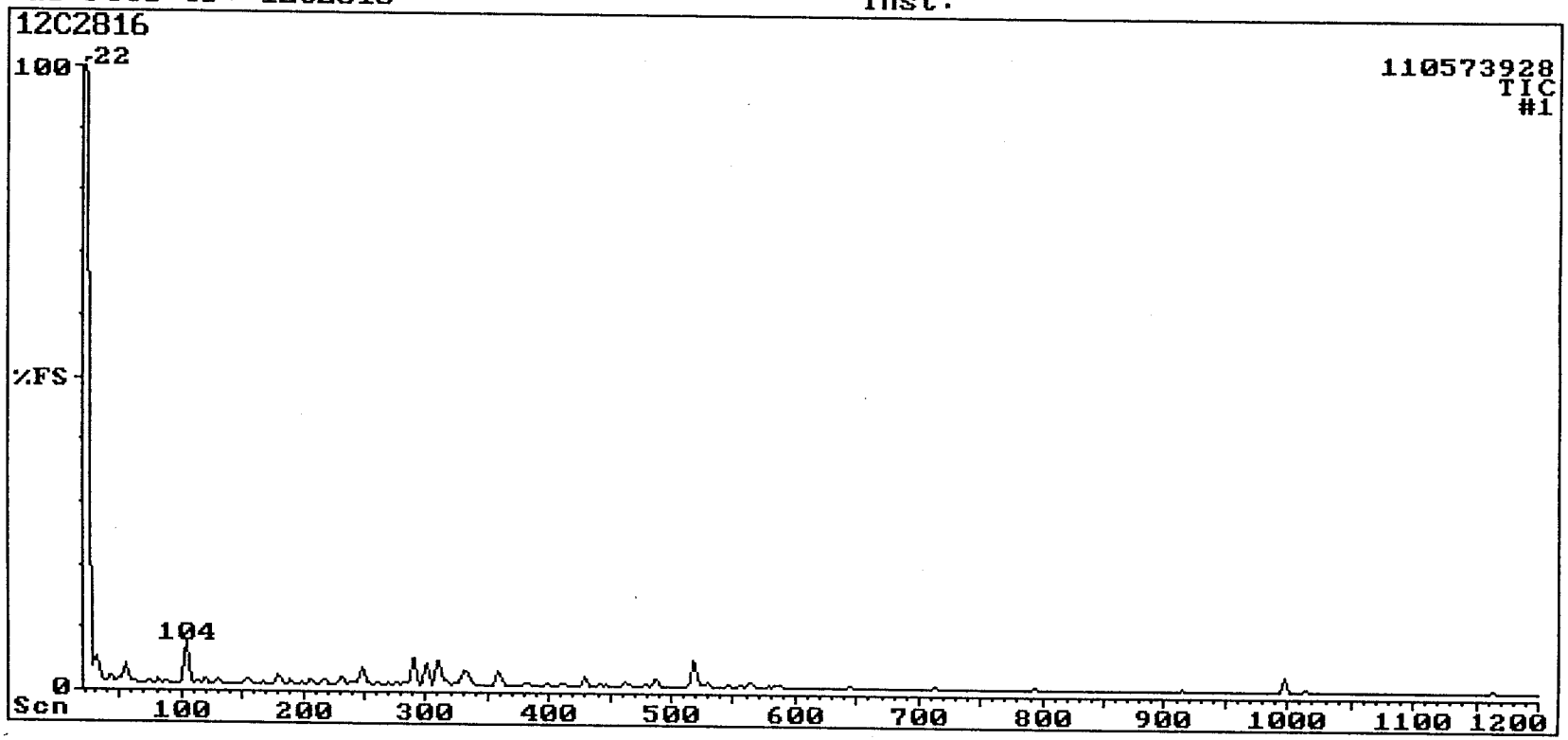
Lab Sample ID: 11622
Lab File ID: 12C2816
Date Sampled:
Date Extracted: 03/15/06
Date Analyzed: 03/28/06
Time Analyzed: 1619

Compound	Sample Conc ug/L		PQL ug/L	Labeled Cpd. Recovery
N-Nitrosodimethylamine		U	0.0020	53 %

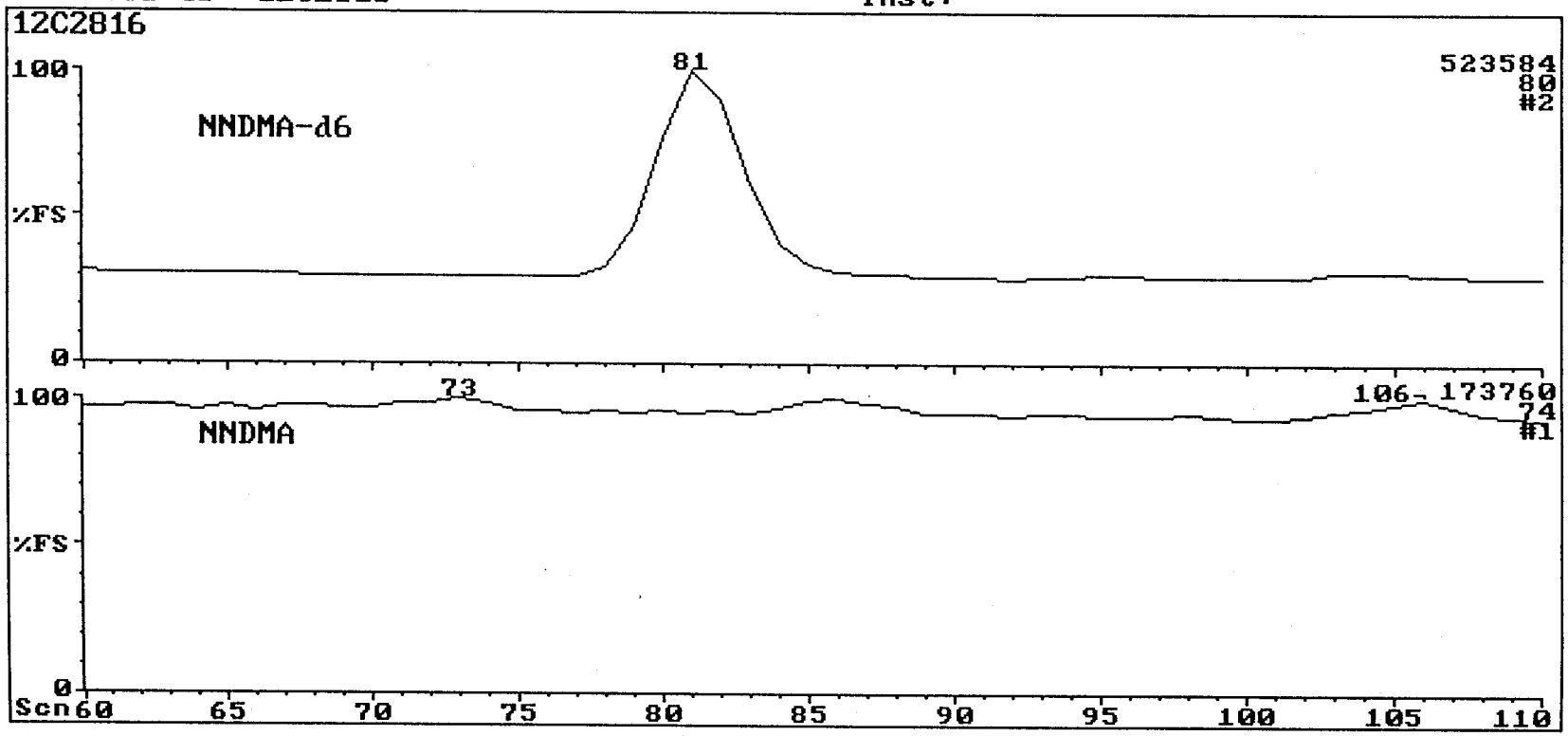
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve
na = Compound has no corresponding labeled reference
PQL = Practical Quantitation Limit

NNDMA MDL = 0.0005 ug/L

Sample: B11622 11622 Analyzed: 03/28/06 1619
Lab File ID: 12C2816 Inst:



Sample: B11622 11622 Analyzed: 03/28/06 1619
Lab File ID: 12C2816 Inst:



Sample No.: B11622 11622 Analyzed: 03/28/06 1619
File ID: 12C2816 Instrument ID: VG12

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Interim Report LAB-BASE FIND 03/29/~~06~~ 06 0515

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J3 3/29/06

Raw Datafile : 12C2816 Quan DB : 12C2816
Find DB : NNDMA Scan DB :

No.	Spectrum MAT	FOR	REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	71	100	0	9572820	bv	997	997	190	2,2'-Difluorobiphenyl
2	100	70	99	0	1325423	vv	81	81	80	N-Nitrosodimethylamine-d6
3	63	33	68	0	31206	!!	86	86	74	N-Nitrosodimethylamine
	45	31	74	7	6976	!!	93			
	35	30	74	12	5760	!!	98			

Quantitation Results

Sample: B11622 Lab ID: 11622 File: 12C2816
Instr: VG12 Acqu Date: 03/28/06 Acqu Time: 1619
Initial Size: 1000.0000 Final Size: 0.1000 ml

Compound	Target Conc ug/ml	Sample Conc ug/L	% Label Rec	Limits
N-Nitrosodimethylamine	~~0.00227~~	~~0.00023~~	53	25 - 175

BDL
3/29/06

Pacific Analytical

GC/MS SEMI-VOLATILES RUN LOG

Instrument: V612

Cal File: 12C28

Page: 847

Date: 3/28/00

Notes: NDMA

Tagged	Sample ID	File Name	OK	Description	OP
		12C2801		Warm-up	CB
		02			
		03			
		04			
	NSTD0.02	05		0.02 ug/ml NDMA Std	
	NSTD0.05	06		0.05	
	NSTD0.10	07		0.10	
	NSTD0.50	08		0.50	
	NSTD1.00	09		1.00	
	NSTD5.00	10		5.00	
	PFRP54	11		CPR	
	PFRP54Dup	12			
	PFRP55	13			
	PFRP55Dup	14			
	11621	15		Lab Blank	
	11622	16			
	11623	17			
	11624	18			
	2530-001	19			
	2530-002	20			
	2526-001	21			
	2532-001	22			
	NSTD0.10	23		0.10 ug/ml NDMA 2nd Std Daily	
	2532-002	24			
	2532-003	25			

Parylene Analytical

GC/MS SEMI-VOLATILES RUN LOG

Instrument: V612

Cal File: 12C28

Page: 848

Date: 3/28/06

Notes:

NPind

Taped	Sample ID	File Name	OK	Description	OP
	2532-004	12C2826			OB
	R+RP56	27		GPR	
	R+RP56Dup	28			
	116 25	29		Lab Blank	
	116 26	30			
	2544-001	31			
	2544-002	32			
	2544-003	33			
	2544-004	34			
	2544-005	35			
	2544-004	36			
	2530-001DL	37		100X	
	2530-002DL	38		100X	

46

Extraction Date: 3/15/06

Matrix: H2O

Client: Curtis & Tompkins

Extraction Method: NNDPhA by UC

NEOUS

Job # 2526+2530

Extraction Solvent: DCM

Lot #:

Initials: MC

Other Reagents: ascorbic acid

Lot #: 1mL

	Label:	Date Made:	Concentration:	Volume added:	Date Spiked:	Initials:	Comments:
1. Surrogate Spike	NDMA+1,4 Dioxane	2/28/06	0.02mg/mL	500µL	3/15/06	MC	
2. Matrix Spike	NDMA+1,4 Dioxane	12/12/05	0.02-0.10mg/mL	100µL	3/15/06	MC	
3. Internal Stndrd.	Nitrosamines K	9/7/05	1mg/mL	10mL	3/23/06	MC	

Sample #:	Sample Size: Extracted:	% Moisture Solids:	Extraction pH	Standards (check) 1	2	3	Initial Extract Volume: A	Aliquot Removed for Prep: B	Volume After Prep: C	Calculated Final Volume: A/B x C =	Comments: (Cleanup Methods used and Information concering unusual sample and extract behavior)
11621	1000mL	N/A	6-8	X		X	100µL	100µL	100mL	100µL	
11622				X		X					
PERPSY				X	X	X					
1 Lp				X	X	X					
2526-001				X		X					
2530-001				X		X					
1-002				X		X					

QA Review: _____

2526 Curtis & Tompkins, 1 X NDMA (TAT: 30)

Lab ID	NDMA
2526-001	P___

Lab ID	Cust ID	Sampled	Rec'vd	Login ID
2526-001	NKGW03	03/10/06	03/14/06	01758

Lab ID	Description	Comment
2526-001	2 X AL	OK

Login	Loggin by	Shipper	Shipper Code	CofC
01758	Chris J. Burbach	California Overnight	C10129000025117	OK

Pacific Analytical, inc.

SAMPLE LOG-IN SHEET -- *Initial*

JOB #	LOG-IN DATE
2526	3/14/06

Received By *(print name)*: Chris Burbach

Received By *(signature)*: [signature]

CLIENT Curtis & Tompkins

Received From Cal Overnight

# of Coolers: 1

TEMP: 3°C

Custody seals	*Present* *Absent** *Intact* *Broken*
Custody Seal #'s	
Airbill	*Airbill* *Sticker* *Present* *Absent**
Airbill #	C10129000025117
Date Rec'd	3/14/06
Time Rec'd	1015
Chain of Custody or Traffic Reports	*Present* *Absent**
Sample Label	*Present* *Absent**
Sample ID #'s on COC	*Listed* *Not Listed*
Sample Condition	*Intact* *Broken* *Leaking*
Does information on Custody records, reports and sample tags agree?	*Yes* *No*

LAB ID #	SAMPLE #	ANALYSIS	# of Containers	CONTAINER TYPE	Matrix Code *(see table below)*	CONDITION
~~NK6W03~~ CB3/14/06						
2526-001	NK6W03	NDMA	2	AL	WW	OK

* COMMENTS

Matrix Codes: DW = Drinking Water WW = Wastewater S = Soil SL = Sludge O = Other

Container Types: AL = Amber Liter VOA = 40 mL vial SJ = Solid jar BT = Brass Tube OTC = Other Type Container

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 185511

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.04.51
Location: Presidio

Sample ID	Lab ID	Sample ID	Lab ID
1065PZ4B	185511-001	TB0313063A	185511-014
1065PZ5B	185511-002	937GW35	185511-015
937GW12	185511-003	937GW39	185511-016
937GW101	185511-004	937GW38	185511-017
937GW102	185511-005	937GW37	185511-018
937GW103	185511-006	937GW104	185511-019
937GW108	185511-007	937GW111R	185511-020
937GW102RB101	185511-008	937GW117	185511-021
1065MW101	185511-009	937GW115	185511-022
1065PZ2A	185511-010	937GW105	185511-023
1065PZ3A	185511-011	937GW105RB106	185511-024
DW031306A	185511-012	937GW106	185511-025
DW031306B	185511-013		

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 5/1/06
Operations Manager

Signature: _____ Date: 4/29/06
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**185511**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**03/14/06**
Samples Received:	**03/14/06**

This hardcopy data package contains sample and QC results for twenty five water samples, requested for the above referenced project on 03/14/06. The samples were received cold and intact. The MBAS analysis was cancelled per J.Graber on 3/23/06; the analytical QC failed and reanalysis would have been out of hold time.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):
No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
High surrogate recoveries were observed for dibromofluoromethane and 1,2-dichloroethane-d4 in many samples; no associated target analytes were detected in the sample. No other analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):
High responses were observed for a number of analytes in the CCV analyzed 03/20/06 16:21; these analytes were not detected at or above the RL in the associated samples. No other analytical problems were encountered.

Pesticides (EPA 8081A):
High response was observed for methoxychlor in the ICV analyzed 03/03/06 19:07; average ICV drift met method requirements, and this analyte was not detected at or above the RL in the associated samples. No other analytical problems were encountered.

Polychlorinated Biphenyls (PCBs) (EPA 8082):
No analytical problems were encountered.

Polynuclear Aromatics by HPLC (EPA 8310):
No analytical problems were encountered.

Metals (EPA 6020, EPA 7470A, and SM 2340B):
High recovery was observed for magnesium in the MS of DAESP03 (lab # 185408-008); the BS/BSD were within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Ion Chromatography (EPA 300.0):
No analytical problems were encountered.

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**185511**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**03/14/06**
Samples Received:	**03/14/06**

Total Cyanide (EPA 335.2):
No analytical problems were encountered.

Alkalinity (EPA 310.1):
No analytical problems were encountered.

Sulfide (EPA 376.2):
Low recoveries were observed for sulfide in the MS/MSD of DW031306B (lab # 185511-013); the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Total Dissolved Solids (TDS) (EPA 160.1):
No analytical problems were encountered.

Total Organic Carbon (TOC) (EPA 415.2):
No analytical problems were encountered.

NDMA (EPA 1625):
Pacific Analytical, Inc. in Carlsbad, CA performed the analysis. Please see the Pacific Analytical, Inc. case narrative.

Chain of Custody

Treadwell&Rollo
Environmental and Geotechnical Consultants
555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

185511

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2037
Page: 1 of 1

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): Blaine Tech / B Pound
Recorder (signature required): Br Pn
Sent to Laboratory (Name): Curtis & Tompkins

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

REQUESTED ANALYSES

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) MTBE	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other) (3)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	BTEX, MTBE (8021)	Total Sulfide					COMMENTS / NOTES
-1	1065PZ4B	3-13	1550			X		3		1	1	2	X	X	X		X		X		X		X	X					
-2	1065PZ5B		1620			X		3		1	1	2	X	X	X		X		X		X		X	X					
-3	937GW12		1220			X		6				1	X	X	X	X													
-4	937GW101		1415			X		6				1	X	X	X	X													
-5	937GW102		1340			X		6				1	X	X	X	X													
-6	937GW103		1310			X		6				1	X	X	X	X													
-7	937GW108		1120			X		6				1	X	X	X	X													
-8	937GW102RB101		1400			X		6				1	X	X	X	X													

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists (23** - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) **(13** - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Ni, Pb, and Zn) **(9** - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) **(8** - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) **(3** - Al, Fe, and Cr) **(Other** -)

RELINQUISHED BY:	DATE: 3/14/06	RECEIVED BY:	DATE: 3.14.06
PRINT NAME: Brian Pound FIRM: Blaine Tech	TIME: 1200	PRINT NAME: AARON GRENIER FIRM: CFT	TIME: 1200
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

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Treadwell&Rollo 185511

Environmental and Geotechnical Consultants

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CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2035
Page: ___ of ___

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTS, John DeJong
Recorder (signature required):
Sent to Laboratory (Name): CFT

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

REQUESTED ANALYSES

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) MTBE	General Chemistry [2]	OCPs (8081) PCB's	Metals - Dissolved (15) (23, 22, 13, 9, 8, 7, 3, Other)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	TOC	Total Sulfide	BTEX, MTBE	NDMA, MBAS	Total hardness, Molybdenum	Metals (23) Diss	SVOC's	Cyanide	TPH ss	COMMENTS / NOTES
-9 1065MW101	3/13/06	1550			X		6	2	1	3	3	X	X	X	X	X		X		X		X	X					X	X	X	
-10 1065PZ2A		1405			X		3	2	1	3	3	X	X	X		X		X		X		X	X	X							
-11 1065PZ3A		1235			X		3		1		3	X	X	X		X		X		X			X	X							
-12 DW031306A		0700			X		9	2	2	1	4	X	X	X	X	X	X			X	X	X	X		X	X	X	X	X	X	
-13 DW031306B		1000			X		9	2	2	1	4	X	X	X	X	X	X			X	X	X	X		X	X	X	X	X	X	
-14 TB031306A		—			X		2																					on hold			

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (Other -)

RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE: 3.14.06
PRINT NAME: FIRM:	TIME:	PRINT NAME: Aaron Grewier FIRM: CFT	TIME: 1200
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

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185511

Treadwell&Rollo

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CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. 0P 2038
Page: ___ of ___

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): D. Raynal / TTS
Recorder (signature required):
Sent to Laboratory (Name): CTT

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) MTBE	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)							COMMENTS / NOTES
-15	937GW35	3/13/06	1445			X		6				1	X	X	X	X													
-16	937GW39	↓	1345			X		X				X	X	X	X	X													
-17	937GW38		1230			X		X				X	X	X	X	X													
-18	937GW37	↓	1120			X		X				X	X	X	X	X													

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists (23** - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (**13** - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (**9** - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (**8** - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (**7** - As, Cr, Cd, Cu, Pb, Ni and Zn) (**3** - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY:	DATE: 3/14/06	RECEIVED BY:	DATE: 3/14/06
PRINT NAME: FIRM:	TIME: 1200	PRINT NAME: AARON CRENLER FIRM: CTT	TIME: 1200
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

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185511

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. 0P 2036
Page: ____ of ____

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BB / SOOCH S. / PETE C.
Recorder (signature required):
Sent to Laboratory (Name): CAT

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

REQUESTED ANALYSES

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) MTBE	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)							COMMENTS / NOTES
19	937GW104	3/13/06	1112			X		6				1	X	X	X	X													
20	979GW111R		1205			X		6				1	X	X	X	X													
21	979GW117		1335			X		6				1	X	X	X	X													
22	979GW115		1405			X		6				1	X	X	X	X													
23	937GW105		1506			X		6				1	X	X	X	X													
24	937GW105PB106		1525			X		6				1	X	X	X	X													
25	937GW106		1605			X		6				1	X	X	X	X													
	∞																												

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists (23** - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (**13** - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (**9** - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (**8** - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (**7** - As, Cr, Cd, Cu, Pb, Ni and Zn) (**3** - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE: 3/14.06
PRINT NAME: FIRM:	TIME:	PRINT NAME: AARON GREWEK FIRM: CAT	TIME: 1200
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

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REVISED

CURTIS & TOMPKINS, LTD. BERKELEY LOGIN CHANGE FORM

Reason for change: X Client Request By: S.Stanley Date/Time: 3/15/06 15:22 Initials: SES
_____ Login Review _____ Data Review

Current Lab ID	Previous Lab ID	Client ID	Matrix	Add/Cancel	Analysis	Duedate
185511-014		TB0313063A	Water	Add	8260	3/24

Steven Stanley

From: "Joshua Graber" <jdgraber@treadwellrollo.com>
To: "Steve Stanley" <steve@ctberk.com>
Cc: "Carole Nuttall" <cnuttall@treadwellrollo.com>; "Gil Shenker" <gshenker@treadwellrollo.com>; "Greg Johnson" <gejohnson@treadwellrollo.com>; <bjones@blainetech.com>; <dataval@msn.com>
Sent: Wednesday, March 15, 2006 2:25 PM
Subject: RE: 2893.04.51 - C&T Login Summary (185511)

We are not going to re-sample for the nitrate/nitrite analysis. Yes, please run the TB sample for VOCs.

Thanks.

Joshua D. Graber
Senior Project Manager / Scientist
Treadwell & Rollo, Inc.

****
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****

From: Steve Stanley [mailto:steve@ctberk.com]
Sent: Wednesday, March 15, 2006 2:18 PM
To: Joshua Graber
Cc: Carole Nuttall; Gil Shenker; Greg Johnson; bjones@blainetech.com; dataval@msn.com
Subject: 2893.04.51 - C&T Login Summary (185511)

NOTE#1: General Chemistry parameters were missed during login for samples -009 to -013. These were added today, however, the nitrate & nitrite analysis hold time had expired by time, but not day, for all but -009. Do you need to resample? NOTE#2: No analysis was selected for TB0313063A. Do you need an analysis logged in?

C&T Login Summary for 185511

Project:

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 185511 Date Received: 3/14/06 Number of Coolers: 5
Client: Treadwell & Rollo Project: Presidio

A. Preliminary Examination Phase
Date Opened: 3/14/06 By (print): Peter P. (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? 1 on lid Seal date: 3/14/06 Seal name: none
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: wet Temperature: 3.8°, 2°, 1.5°, 1.2°, 2°

B. Login Phase
Date Logged In: 3/14/06 By (print): Peter P. (sign) [signature]

1. Describe type of packing in cooler: Ziploc bags in ice
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

TOTAL VOLATILE HYDROCARBONS/

BTXE

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1065PZ4B	Batch#:	111269
Lab ID:	185511-001	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/14/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	109	65-135	EPA 8015B
Bromofluorobenzene (FID)	107	65-135	EPA 8015B
Trifluorotoluene (PID)	83	65-135	EPA 8021B
Bromofluorobenzene (PID)	87	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1065PZ5B	Batch#:	111269
Lab ID:	185511-002	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/14/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	113	65-135	EPA 8015B
Bromofluorobenzene (FID)	111	65-135	EPA 8015B
Trifluorotoluene (PID)	90	65-135	EPA 8021B
Bromofluorobenzene (PID)	93	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	937GW12	Batch#:	111294
Lab ID:	185511-003	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/14/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	65-135
Bromofluorobenzene (FID)	103	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	937GW101	Batch#:	111294
Lab ID:	185511-004	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/14/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	100	65-135
Bromofluorobenzene (FID)	106	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	937GW102	Batch#:	111294
Lab ID:	185511-005	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/14/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	101	65-135
Bromofluorobenzene (FID)	105	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	937GW103	Batch#:	111294
Lab ID:	185511-006	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/14/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	65-135
Bromofluorobenzene (FID)	113	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	937GW108	Batch#:	111294
Lab ID:	185511-007	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/14/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	140 H Y	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	65-135
Bromofluorobenzene (FID)	110	65-135

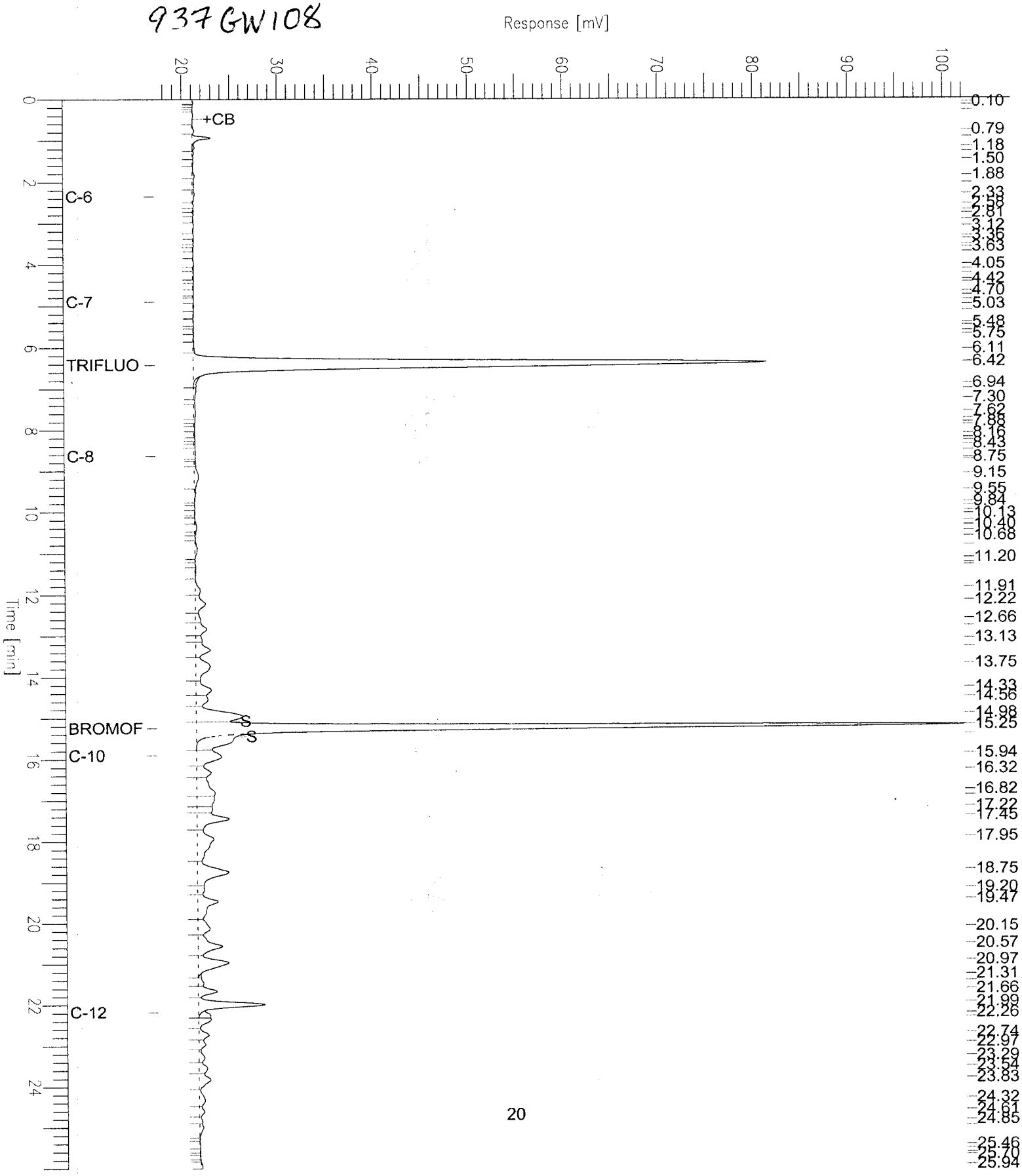
H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
RL= Reporting Limit

GC07 TVH 'A' Data File RTX 502

Sample Name : 185511-007,111294,tvh
FileName : G:\GC07\DATA\073A011.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.00 min
Scale Factor: 1.0 Plot Offset: 17 mV

Sample #: a1.3 Page 1 of 1
Date : 3/15/06 10:57 AM
Time of Injection: 3/14/06 09:40 PM
Low Point : 17.08 mV High Point : 102.08 mV
Plot Scale: 85.0 mV

937GW108



Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	937GW102RB101	Batch#:	111294
Lab ID:	185511-008	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/14/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	96	65-135
Bromofluorobenzene (FID)	107	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1065MW101	Batch#:	111294
Lab ID:	185511-009	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	100	65-135
Bromofluorobenzene (FID)	107	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1065PZ2A	Batch#:	111269
Lab ID:	185511-010	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/14/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	111	65-135	EPA 8015B
Bromofluorobenzene (FID)	109	65-135	EPA 8015B
Trifluorotoluene (PID)	90	65-135	EPA 8021B
Bromofluorobenzene (PID)	92	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1065PZ3A	Batch#:	111269
Lab ID:	185511-011	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/14/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	111	65-135	EPA 8015B
Bromofluorobenzene (FID)	109	65-135	EPA 8015B
Trifluorotoluene (PID)	91	65-135	EPA 8021B
Bromofluorobenzene (PID)	92	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	DW031306A	Batch#:	111294
Lab ID:	185511-012	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/14/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
Stoddard Solvent C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	65-135
Bromofluorobenzene (FID)	110	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	DW031306B	Batch#:	111294
Lab ID:	185511-013	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/14/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
Stoddard Solvent C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	65-135
Bromofluorobenzene (FID)	111	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	937GW35	Batch#:	111294
Lab ID:	185511-015	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	105	65-135
Bromofluorobenzene (FID)	110	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	937GW39	Batch#:	111294
Lab ID:	185511-016	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	94	65-135
Bromofluorobenzene (FID)	103	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	937GW38	Batch#:	111294
Lab ID:	185511-017	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	110	65-135
Bromofluorobenzene (FID)	109	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	937GW37	Batch#:	111294
Lab ID:	185511-018	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	93	65-135
Bromofluorobenzene (FID)	100	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	937GW104	Batch#:	111294
Lab ID:	185511-019	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	65-135
Bromofluorobenzene (FID)	105	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	979GW111R	Batch#:	111294
Lab ID:	185511-020	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	65-135
Bromofluorobenzene (FID)	107	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	979GW117	Batch#:	111294
Lab ID:	185511-021	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	82	65-135
Bromofluorobenzene (FID)	96	65-135

ND= Not Detected
RL= Reporting Limit

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Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	979GW115	Batch#:	111294
Lab ID:	185511-022	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	97	65-135
Bromofluorobenzene (FID)	102	65-135

ND= Not Detected
RL= Reporting Limit

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REVISED

22.1

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	937GW105	Batch#:	111294
Lab ID:	185511-023	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	90	65-135
Bromofluorobenzene (FID)	96	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	937GW105RB106	Batch#:	111294
Lab ID:	185511-024	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	92	65-135
Bromofluorobenzene (FID)	102	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	937GW106	Batch#:	111294
Lab ID:	185511-025	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	100	65-135
Bromofluorobenzene (FID)	104	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331342	Batch#:	111269
Matrix:	Water	Analyzed:	03/14/06
Units:	ug/L		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	104	65-135	EPA 8015B
Bromofluorobenzene (FID)	98	65-135	EPA 8015B
Trifluorotoluene (PID)	86	65-135	EPA 8021B
Bromofluorobenzene (PID)	83	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331451	Batch#:	111294
Matrix:	Water	Analyzed:	03/14/06
Units:	ug/L		

Analyte	Result	RL
Gasoline C7-C12	ND	50
Stoddard Solvent C7-C12	ND	50

Surrogate	Result	%REC	Limits
Trifluorotoluene (FID)		109	65-135
Bromofluorobenzene (FID)		108	65-135
Trifluorotoluene (PID)	NA		
Bromofluorobenzene (PID)	NA		

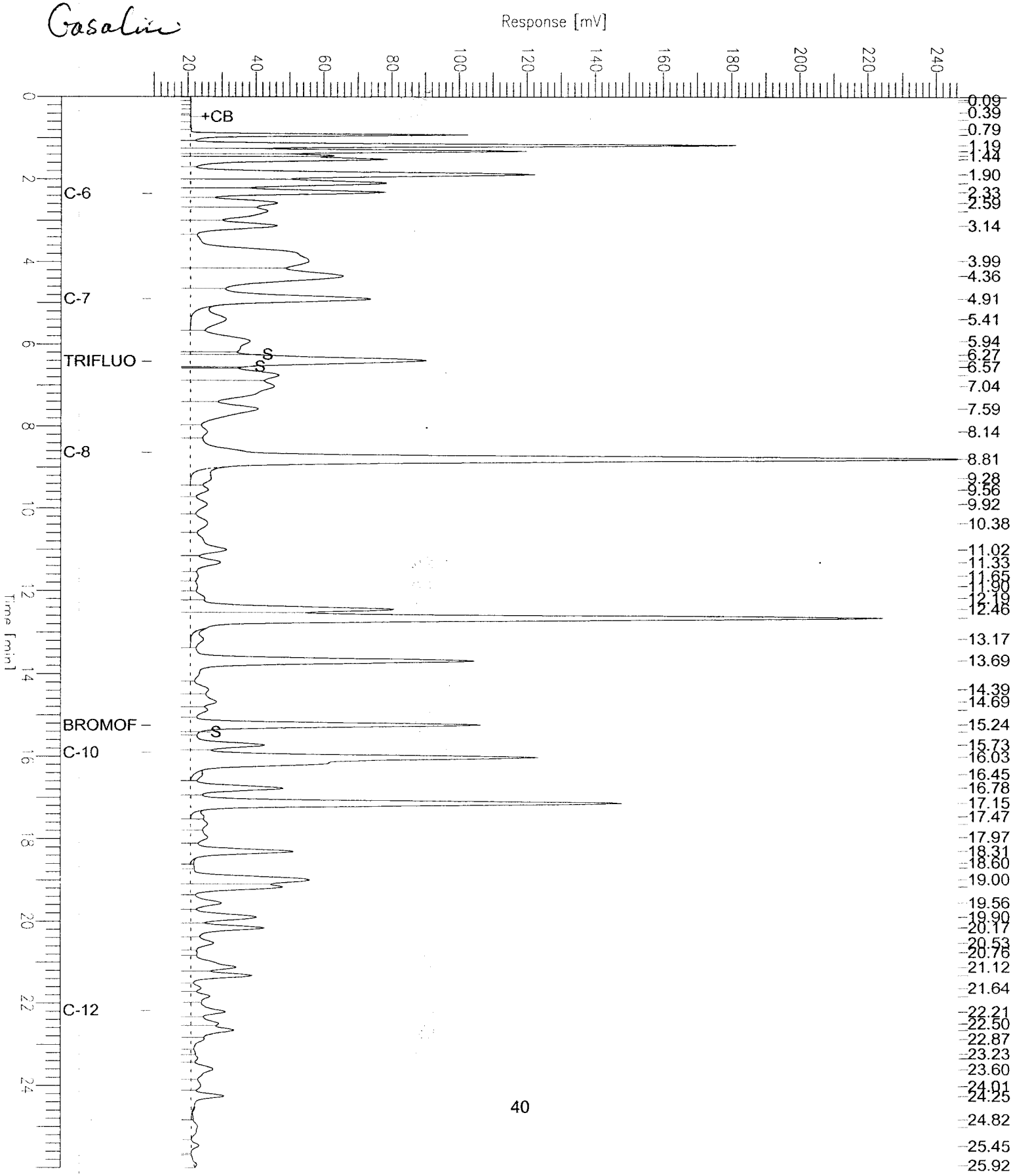
NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit

GC07 TVH 'A' Data File RTX 502

Sample Name : ccv/lcs,qc331452,111294,S2869,5/5000
FileName : G:\GC07\DATA\073A002.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.00 min
Scale Factor: 1.0 Plot Offset: 9 mV

Sample #:
Date : 3/15/06 10:57 AM
Time of Injection: 3/14/06 04:15 PM
Low Point : 9.41 mV High Point : 246.40 mV
Plot Scale: 237.0 mV

Gasoline

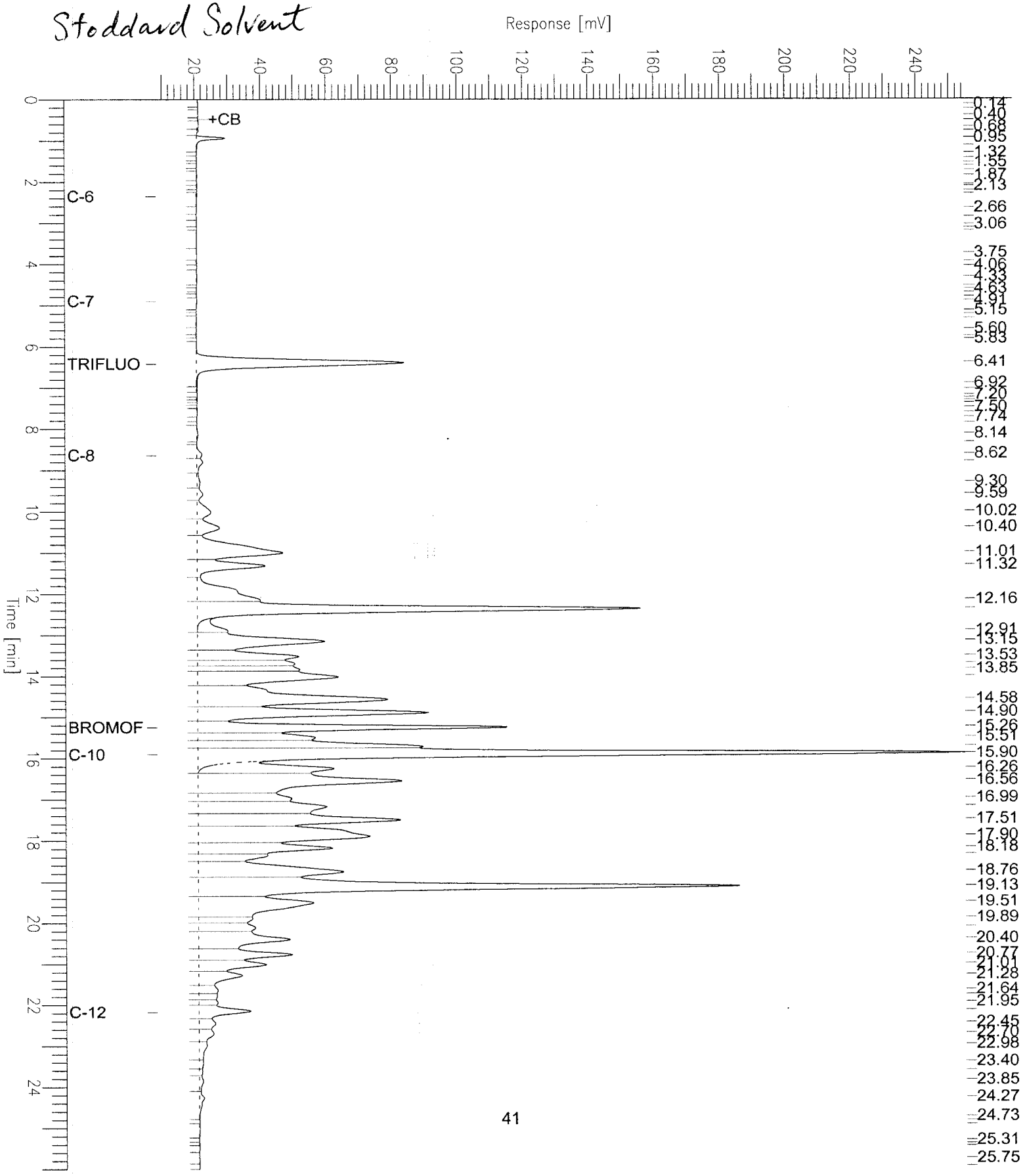


GC07 TVH 'A' Data File RTX 502

Sample Name : ccv,stoddard,111294,S2169,5/5000
FileName : G:\GC07\DATA\073A003.RAW
Method :
Start Time : 0.00 min End Time : 26.00 min
Scale Factor: 0.0 Plot Offset: 8 mV

Sample #: Page 1 of 1
Date : 3/23/06 09:57 AM
Time of Injection: 3/14/06 04:51 PM
Low Point : 8.19 mV High Point : 254.81 mV
Plot Scale: 246.6 mV

Stoddard Solvent



Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8021B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331343	Batch#:	111269
Matrix:	Water	Analyzed:	03/14/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
MTBE	20.00	19.92	100	65-135
Benzene	20.00	18.88	94	65-135
Toluene	20.00	19.42	97	65-135
Ethylbenzene	20.00	19.51	98	65-135

Surrogate	%REC	Limits
Trifluorotoluene (PID)	88	65-135
Bromofluorobenzene (PID)	88	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331344	Batch#:	111269
Matrix:	Water	Analyzed:	03/14/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	2,005	100	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	125	65-135
Bromofluorobenzene (FID)	111	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331452	Batch#:	111294
Matrix:	Water	Analyzed:	03/14/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	Analysis
Gasoline C7-C12	2,000	2,228	111	75-125	EPA 8015B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	120	65-135	EPA 8015B
Bromofluorobenzene (FID)	114	65-135	EPA 8015B
Trifluorotoluene (PID)	82	65-135	EPA 8021B
Bromofluorobenzene (PID)	73	65-135	EPA 8021B

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	111269
MSS Lab ID:	185299-001	Sampled:	03/03/06
Matrix:	Water	Received:	03/03/06
Units:	ug/L	Analyzed:	03/14/06
Diln Fac:	1.000		

Type: MS Lab ID: QC331348

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	20.83	2,000	2,014	100	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	120	65-135
Bromofluorobenzene (FID)	109	65-135

Type: MSD Lab ID: QC331349

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,953	97	65-135	3	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	125	65-135
Bromofluorobenzene (FID)	111	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	111269
MSS Lab ID:	185525-002	Sampled:	03/14/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Type: MS Lab ID: QC331515

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	16.61	2,000	2,053	102	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	122	65-135
Bromofluorobenzene (FID)	116	65-135

Type: MSD Lab ID: QC331516

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,038	101	65-135	1	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	130	65-135
Bromofluorobenzene (FID)	115	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	937GW12	Batch#:	111294
MSS Lab ID:	185511-003	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Type: MS Lab ID: QC331471

Analyte	MSS Result	Spiked	Result	%REC	Limits	Analysis
Gasoline C7-C12	17.42	2,000	1,874	93	65-135	EPA 8015B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	114	65-135	EPA 8015B
Bromofluorobenzene (FID)	107	65-135	EPA 8015B
Trifluorotoluene (PID)	80	65-135	EPA 8021B
Bromofluorobenzene (PID)	73	65-135	EPA 8021B

Type: MSD Lab ID: QC331472

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analysis
Gasoline C7-C12	2,000	1,891	94	65-135	1	35	EPA 8015B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	112	65-135	EPA 8015B
Bromofluorobenzene (FID)	103	65-135	EPA 8015B
Trifluorotoluene (PID)	79	65-135	EPA 8021B
Bromofluorobenzene (PID)	70	65-135	EPA 8021B

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185511 GCVOA Water: EPA 8015B

Inst : GC05
Calnum : 315497353001
Units : ng

Name : tvh
Date : 11-DEC-2005 10:16
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	345_003	315497353003	tvh 1	11-DEC-2005 10:16	S1367 (1000X), S1895 (5000X)
L2	345_004	315497353004	tvh 2	11-DEC-2005 10:48	S1368 (1000X), S1895 (5000X)
L3	345_005	315497353005	tvh 3	11-DEC-2005 11:19	S1369 (1000X), S1895 (5000X)
L4	345_006	315497353006	tvh 4	11-DEC-2005 11:51	S1370 (2000X), S1895 (5000X)
L5	345_007	315497353007	tvh 5	11-DEC-2005 12:23	S1370 (1000X), S1895 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	G	1693.0	1307.5	1282.8	1171.1	1217.8	AVRG		7.49E-4		1334.5	16	0.995	20	

48

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

315497353001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185511 GCVOA Water: EPA 8015B / EPA 8021B

Inst : GC05
Calnum : 316013420001
Units : ng

Name : TFT/BFB
Date : 09-JAN-2006 12:00
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	009_006	316013420006	tft/bfb 1	09-JAN-2006 12:00	S1889 (5000X)
L2	009_007	316013420007	tft/bfb 2	09-JAN-2006 12:32	S1890 (5000X)
L3	009_008	316013420008	tft/bfb 3	09-JAN-2006 13:04	S1891 (5000X)
L4	009_009	316013420009	tft/bfb 4	09-JAN-2006 13:42	S1892 (5000X)
L5	009_010	316013420010	tft/bfb 5	09-JAN-2006 14:13	S1893 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	G	1339.7	1422.7	1133.8	1120.9	1121.5	AVRG		8.15E-4		1227.7	12	0.995	20	
Bromofluorobenzene (FID)	G	858.52	958.51	732.70	751.93	754.50	AVRG		0.00123		811.23	12	0.995	20	
Trifluorotoluene (PID)	H	455.13	504.69	437.53	455.86	452.98	AVRG		0.00217		461.24	6	0.995	20	
Bromofluorobenzene (PID)	H	901.33	1032.5	919.64	956.84	945.96	AVRG		0.00105		951.26	5	0.995	20	
Trifluorotoluene (PID)	I	138.14	152.07	139.19	147.34	149.65	AVRG		0.00688		145.28	4	0.995	20	
Bromofluorobenzene (PID)	I	287.49	334.84	315.38	332.14	331.18	AVRG		0.00312		320.20	6	0.995	20	

49

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

316013420001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185511 GCVOA Water: EPA 8021B

Inst : GC05
Calnum : 316062601001
Units : ng

Name : MBTXE
Date : 12-FEB-2006 14:34
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	043_005	316062601005	btxe 1	12-FEB-2006 14:34	S2368 (1000X), S2543 (5000X)
L2	043_006	316062601006	mtbe 1	12-FEB-2006 15:06	S2367 (1250X), S2543 (5000X)
L3	043_007	316062601007	mbtxe 2	12-FEB-2006 15:38	S2367 (500X), S2543 (5000X)
L4	043_008	316062601008	mbtxe 3	12-FEB-2006 16:10	S2367 (125X), S2543 (5000X)
L5	043_009	316062601009	mbtxe 4	12-FEB-2006 16:42	S2366 (1000X), S2543 (5000X)
L6	043_010	316062601010	mbtxe 5	12-FEB-2006 17:13	S2366 (500X), S2543 (5000X)
L7	043_011	316062601011	mbtxe 6	12-FEB-2006 17:45	S2366 (250X), S2543 (5000X)
L8	043_012	316062601012	mtbe 7	12-FEB-2006 18:17	S1492 (500X), S2543 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
MTBE	H		500.50	507.40	495.60	549.62	570.21	548.04	496.84	AVRG		0.00191		524.03	6	0.995	20	
Benzene	H	1636.0		1390.9	1369.3	1430.7	1444.7	1442.5		AVRG		6.89E-4		1452.4	7	0.995	20	
Toluene	H	1558.0		1351.6	1324.7	1322.4	1342.2	1335.2		AVRG		7.29E-4		1372.3	7	0.995	20	
Ethylbenzene	H	1196.0		1171.3	1134.0	1149.3	1152.6	1141.2		AVRG		8.64E-4		1157.4	2	0.995	20	
m,p-Xylenes	H	1636.0		1404.5	1425.6	1414.8	1407.6	1395.4		AVRG		6.91E-4		1447.3	6	0.995	20	
o-Xylene	H	1328.0		1159.0	1154.6	1142.8	1149.6	1128.8		AVRG		8.50E-4		1177.1	6	0.995	20	
MTBE	I		134.10	153.84	165.11	209.16	228.42	230.46	215.86	AVRG		0.00524		190.99	20	0.995	20	
Benzene	I	424.80		443.80	505.67	580.08	602.82	619.99		AVRG		0.00189		529.53	16	0.995	20	
Toluene	I	342.00		413.68	471.62	538.20	562.15	579.48		AVRG		0.00206		484.52	19	0.995	20	
Ethylbenzene	I	315.26		373.81	422.87	485.20	502.89	521.53		AVRG		0.00229		436.93	19	0.995	20	
m,p-Xylenes	I	463.32		427.11	496.13	565.88	587.17	611.29		AVRG		0.00190		525.15	14	0.995	20	
o-Xylene	I	306.48		357.56	411.56	471.31	495.69	514.60		AVRG		0.00235		426.20	19	0.995	20	

50

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

316062601001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185511 GCVOA Water: EPA 8015B

Inst : GC07
Calnum : 326038690001
Units : ng

Name : tvh
Date : 27-JAN-2006 04:27
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	026_014	326038690014	tvh 1	27-JAN-2006 04:27	S2395 (1000X), S2543 (5000X)
L2	026_015	326038690015	tvh 2	27-JAN-2006 05:02	S2396 (1000X), S2543 (5000X)
L3	026_016	326038690016	tvh 3	27-JAN-2006 05:37	S2397 (1000X), S2543 (5000X)
L4	026_017	326038690017	tvh 4	27-JAN-2006 06:12	S2399 (2000X), S2543 (5000X)
L5	026_018	326038690018	tvh 5	27-JAN-2006 06:47	S2399 (1000X), S2543 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	1535.0	1209.2	1082.9	1059.1	1154.7	AVRG		8.28E-4		1208.2	16	0.995	20	

51

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185511 GCVOA Water: EPA 8015B / EPA 8021B

Inst : GC07
Calnum : 326038690002
Units : ng

Name : tft/bfb
Date : 27-JAN-2006 14:01
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	026_026	326038690026	tft/bfb 1	27-JAN-2006 14:01	S2572 (5000X)
L2	026_027	326038690027	tft/bfb 2	27-JAN-2006 14:37	S2573 (5000X)
L3	026_028	326038690028	tft/bfb 3	27-JAN-2006 15:12	S2574 (5000X)
L4	026_029	326038690029	tft/bfb 4	27-JAN-2006 16:48	S2575 (5000X)
L5	026_030	326038690030	tft/bfb 5	27-JAN-2006 17:24	S2576 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	1385.9	1332.8	1647.4	1459.4	1484.5	AVRG		6.84E-4		1462.0	8	0.995	20	
Bromofluorobenzene (FID)	A	1241.8	1164.6	1387.8	1265.3	1264.8	AVRG		7.91E-4		1264.8	6	0.995	20	
Trifluorotoluene (PID)	B	404.70	390.31	474.52	438.55	447.49	AVRG		0.00232		431.11	8	0.995	20	
Bromofluorobenzene (PID)	B	1300.1	1257.2	1425.4	1320.1	1295.4	AVRG		7.58E-4		1319.6	5	0.995	20	
Trifluorotoluene (PID)	C	97.180	96.391	127.76	119.11	125.56	AVRG		0.00883		113.20	14	0.995	20	
Bromofluorobenzene (PID)	C	302.52	303.46	374.69	352.26	352.83	AVRG		0.00297		337.15	10	0.995	20	

52

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185511 GCVOA Water: EPA 8015B

Inst : GC07
Calnum : 326106059001
Units : ng

Name : Stoddard s-pt
Date : 14-MAR-2006 16:51
X Axis : R

Inj Vol: 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	073_003	326106059003	stoddard	14-MAR-2006 16:51	S2169 (1000X), S2543 (5000X)

Analyte	Ch	L1	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Stoddard Solvent C7-C12	A	2044.1	AVRG		4.89E-4		2044.1	0	0.995	20	

53

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185511 GCVOA Water
EPA 8015B

Inst : GC05 Name : tvh
Calnum : 315497353001 Cal Date: 11-DEC-2005

ICV 315497353010 (345_010 11-DEC-2005) stds: S2241 (1000X), S1895 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	G	10000	9115	ng	-9	

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185511 GCVOA Water
EPA 8021B

Inst : GC05 Name : MBTXE
Calnum : 316062601001 Cal Date: 12-FEB-2006

ICV 316062601015 (043_015 12-FEB-2006) stds: S2157 (1000X), S2543 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
MTBE	H	100.0	84.56	ng	-15	15	
Benzene	H	100.0	100.9	ng	1	15	
Toluene	H	100.0	101.7	ng	2	15	
Ethylbenzene	H	100.0	100.4	ng	0	15	
m,p-Xylenes	H	200.0	205.6	ng	3	15	
o-Xylene	H	100.0	101.2	ng	1	15	
MTBE	I	100.0	87.71	ng	-12	15	
Benzene	I	100.0	111.3	ng	11	15	
Toluene	I	100.0	108.2	ng	8	15	
Ethylbenzene	I	100.0	107.9	ng	8	15	
m,p-Xylenes	I	200.0	217.8	ng	9	15	
o-Xylene	I	100.0	103.0	ng	3	15	

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185511 GCVOA Water
EPA 8015B

Inst : GC07 Name : tvh
Calnum : 326038690001 Cal Date: 27-JAN-2006

ICV 326038690021 (026_021 27-JAN-2006) stds: S2557 (1000X), S2543 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	A	10000	9086	ng	-9	

CONTINUING CALIBRATION SUMMARY FOR 185511 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Gasoline C7-C12

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	G	316105674003	14-MAR-2006 10:17	315497353001	11-DEC-2005	1334.5	1337.6	10000	10023	ng	0	15	
GC05	G	316105674010	14-MAR-2006 14:00	315497353001	11-DEC-2005	1334.5	1307.1	15000	14693	ng	-2	15	
GC05	G	316105674023	15-MAR-2006 01:47	315497353001	11-DEC-2005	1334.5	1353.5	10000.0	10143	ng	1	15	
GC05	G	316105674024	15-MAR-2006 02:18	315497353001	11-DEC-2005	1334.5	1398.7	10000.0	10481	ng	5	15	
GC05	G	316105674034	15-MAR-2006 07:31	315497353001	11-DEC-2005	1334.5	1375.2	5000.0	5152.7	ng	3	15	
GC07	A	326106059002	14-MAR-2006 16:15	326038690001	27-JAN-2006	1208.2	1346.2	10000	11142	ng	11	15	
GC07	A	326106059013	14-MAR-2006 22:52	326038690001	27-JAN-2006	1208.2	1225.9	15000	15220	ng	1	15	
GC07	A	326106059014	14-MAR-2006 23:28	326038690001	27-JAN-2006	1208.2	1229.9	15000	15269	ng	2	15	
GC07	A	326106059027	15-MAR-2006 07:18	326038690001	27-JAN-2006	1208.2	1133.9	10000.0	9385.2	ng	-6	15	
GC07	A	326106059028	15-MAR-2006 07:54	326038690001	27-JAN-2006	1208.2	1126.2	10000.0	9321.1	ng	-7	15	
GC07	A	326106059033	15-MAR-2006 10:54	326038690001	27-JAN-2006	1208.2	1149.0	5000.0	4754.9	ng	-5	15	

CONTINUING CALIBRATION SUMMARY FOR 185511 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Stoddard Solvent C7-C12

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC07	A	326106059003	14-MAR-2006 16:51	326106059001	14-MAR-2006	2044.1	2044.1	10000.0	10000	ng	0	15	
GC07	A	326106059015	15-MAR-2006 00:04	326106059001	14-MAR-2006	2044.1	1760.7	10000.0	8613.3	ng	-14	15	

CONTINUING CALIBRATION SUMMARY FOR 185511 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: MTBE

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316105674002	14-MAR-2006 09:45	316062601001	12-FEB-2006	524.03	521.80	100.00	99.576	ng	0	15	
GC05	I	316105674002	14-MAR-2006 09:45	316062601001	12-FEB-2006	190.99	169.18	100.00	88.580	ng	-11	15	
GC05	H	316105674009	14-MAR-2006 13:28	316062601001	12-FEB-2006	524.03	532.13	150.00	152.32	ng	2	15	
GC05	I	316105674009	14-MAR-2006 13:28	316062601001	12-FEB-2006	190.99	198.99	150.00	156.28	ng	4	15	
GC05	H	316105674021	15-MAR-2006 00:44	316062601001	12-FEB-2006	524.03	565.30	100.00	107.88	ng	8	15	
GC05	I	316105674021	15-MAR-2006 00:44	316062601001	12-FEB-2006	190.99	180.76	100.00	94.643	ng	-5	15	

CONTINUING CALIBRATION SUMMARY FOR 185511 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Benzene

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316105674002	14-MAR-2006 09:45	316062601001	12-FEB-2006	1452.4	1370.7	100.00	94.378	ng	-6	15	
GC05	I	316105674002	14-MAR-2006 09:45	316062601001	12-FEB-2006	529.53	497.01	100.00	93.860	ng	-6	15	
GC05	H	316105674009	14-MAR-2006 13:28	316062601001	12-FEB-2006	1452.4	1398.5	150.00	144.44	ng	-4	15	
GC05	I	316105674009	14-MAR-2006 13:28	316062601001	12-FEB-2006	529.53	552.02	150.00	156.37	ng	4	15	
GC05	H	316105674021	15-MAR-2006 00:44	316062601001	12-FEB-2006	1452.4	1446.1	100.00	99.569	ng	0	15	
GC05	I	316105674021	15-MAR-2006 00:44	316062601001	12-FEB-2006	529.53	513.36	100.00	96.946	ng	-3	15	

CONTINUING CALIBRATION SUMMARY FOR 185511 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Toluene

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316105674002	14-MAR-2006 09:45	316062601001	12-FEB-2006	1372.3	1332.4	100.00	97.089	ng	-3	15	
GC05	I	316105674002	14-MAR-2006 09:45	316062601001	12-FEB-2006	484.52	449.46	100.00	92.763	ng	-7	15	
GC05	H	316105674009	14-MAR-2006 13:28	316062601001	12-FEB-2006	1372.3	1356.3	150.00	148.25	ng	-1	15	
GC05	I	316105674009	14-MAR-2006 13:28	316062601001	12-FEB-2006	484.52	507.50	150.00	157.11	ng	5	15	
GC05	H	316105674021	15-MAR-2006 00:44	316062601001	12-FEB-2006	1372.3	1370.2	100.00	99.843	ng	0	15	
GC05	I	316105674021	15-MAR-2006 00:44	316062601001	12-FEB-2006	484.52	459.66	100.00	94.869	ng	-5	15	

CONTINUING CALIBRATION SUMMARY FOR 185511 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Ethylbenzene

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316105674002	14-MAR-2006 09:45	316062601001	12-FEB-2006	1157.4	1129.0	100.00	97.546	ng	-2	15	
GC05	I	316105674002	14-MAR-2006 09:45	316062601001	12-FEB-2006	436.93	400.68	100.00	91.704	ng	-8	15	
GC05	H	316105674009	14-MAR-2006 13:28	316062601001	12-FEB-2006	1157.4	1160.2	150.00	150.36	ng	0	15	
GC05	I	316105674009	14-MAR-2006 13:28	316062601001	12-FEB-2006	436.93	451.97	150.00	155.16	ng	3	15	
GC05	H	316105674021	15-MAR-2006 00:44	316062601001	12-FEB-2006	1157.4	1147.1	100.00	99.114	ng	-1	15	
GC05	I	316105674021	15-MAR-2006 00:44	316062601001	12-FEB-2006	436.93	402.42	100.00	92.102	ng	-8	15	

CONTINUING CALIBRATION SUMMARY FOR 185511 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: m,p-Xylenes

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316105674002	14-MAR-2006 09:45	316062601001	12-FEB-2006	1447.3	1396.4	100.00	96.482	ng	-4	15	
GC05	I	316105674002	14-MAR-2006 09:45	316062601001	12-FEB-2006	525.15	470.08	100.00	89.513	ng	-10	15	
GC05	H	316105674009	14-MAR-2006 13:28	316062601001	12-FEB-2006	1447.3	1432.5	150.00	148.47	ng	-1	15	
GC05	I	316105674009	14-MAR-2006 13:28	316062601001	12-FEB-2006	525.15	529.83	150.00	151.34	ng	1	15	
GC05	H	316105674021	15-MAR-2006 00:44	316062601001	12-FEB-2006	1447.3	1394.0	100.00	96.313	ng	-4	15	
GC05	I	316105674021	15-MAR-2006 00:44	316062601001	12-FEB-2006	525.15	469.85	100.00	89.470	ng	-11	15	

CONTINUING CALIBRATION SUMMARY FOR 185511 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: o-Xylene

Instid	Ch	Seqnum	Injected	Calnum	Caldate	RF/CF	Avg RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316105674002	14-MAR-2006 09:45	316062601001	12-FEB-2006	1177.1	1147.6	100.00	97.493	ng	-3	15	
GC05	I	316105674002	14-MAR-2006 09:45	316062601001	12-FEB-2006	426.20	389.68	100.00	91.431	ng	-9	15	
GC05	H	316105674009	14-MAR-2006 13:28	316062601001	12-FEB-2006	1177.1	1177.3	150.00	150.02	ng	0	15	
GC05	I	316105674009	14-MAR-2006 13:28	316062601001	12-FEB-2006	426.20	440.85	150.00	155.16	ng	3	15	
GC05	H	316105674021	15-MAR-2006 00:44	316062601001	12-FEB-2006	1177.1	1158.3	100.00	98.402	ng	-2	15	
GC05	I	316105674021	15-MAR-2006 00:44	316062601001	12-FEB-2006	426.20	392.50	100.00	92.092	ng	-8	15	

CONTINUING CALIBRATION SUMMARY FOR 185511 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Trifluorotoluene (FID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	G	316105674002	14-MAR-2006 09:45	316013420001	09-JAN-2006	1227.7	1317.9	450.00	483.06	ng	7	15	
GC05	G	316105674003	14-MAR-2006 10:17	316013420001	09-JAN-2006	1227.7	1528.7	450.00	560.30	ng	**25**	15	c+
GC05	G	316105674009	14-MAR-2006 13:28	316013420001	09-JAN-2006	1227.7	1368.4	450.00	501.58	ng	11	15	
GC05	G	316105674021	15-MAR-2006 00:44	316013420001	09-JAN-2006	1227.7	1359.9	450.00	498.46	ng	11	15	
GC05	G	316105674034	15-MAR-2006 07:31	316013420001	09-JAN-2006	1227.7	1403.5	450.00	514.43	ng	14	15	
GC07	A	326106059002	14-MAR-2006 16:15	326038690002	27-JAN-2006	1462.0	1759.2	450.00	541.46	ng	**20**	15	c+
GC07	A	326106059013	14-MAR-2006 22:52	326038690002	27-JAN-2006	1462.0	1688.9	450.00	519.83	ng	**16**	15	c+
GC07	A	326106059027	15-MAR-2006 07:18	326038690002	27-JAN-2006	1462.0	1548.6	450.00	476.67	ng	6	15	
GC07	A	326106059033	15-MAR-2006 10:54	326038690002	27-JAN-2006	1462.0	1487.4	450.00	457.83	ng	2	15	

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CONTINUING CALIBRATION SUMMARY FOR 185511 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Bromofluorobenzene (FID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	G	316105674002	14-MAR-2006 09:45	316013420001	09-JAN-2006	811.23	827.21	450.00	458.86	ng	2	15	
GC05	G	316105674003	14-MAR-2006 10:17	316013420001	09-JAN-2006	811.23	899.06	450.00	498.72	ng	11	15	
GC05	G	316105674009	14-MAR-2006 13:28	316013420001	09-JAN-2006	811.23	875.03	450.00	485.39	ng	8	15	
GC05	G	316105674021	15-MAR-2006 00:44	316013420001	09-JAN-2006	811.23	867.16	450.00	481.02	ng	7	15	
GC05	G	316105674034	15-MAR-2006 07:31	316013420001	09-JAN-2006	811.23	855.57	450.00	474.59	ng	5	15	
GC07	A	326106059002	14-MAR-2006 16:15	326038690002	27-JAN-2006	1264.8	1438.5	450.00	511.80	ng	14	15	
GC07	A	326106059013	14-MAR-2006 22:52	326038690002	27-JAN-2006	1264.8	1339.3	450.00	476.49	ng	6	15	
GC07	A	326106059027	15-MAR-2006 07:18	326038690002	27-JAN-2006	1264.8	1262.0	450.00	449.00	ng	0	15	
GC07	A	326106059033	15-MAR-2006 10:54	326038690002	27-JAN-2006	1264.8	1217.9	450.00	433.32	ng	-4	15	

CONTINUING CALIBRATION SUMMARY FOR 185511 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Trifluorotoluene (PID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316105674002	14-MAR-2006 09:45	316013420001	09-JAN-2006	461.24	407.71	450.00	397.78	ng	-12	15	
GC05	I	316105674002	14-MAR-2006 09:45	316013420001	09-JAN-2006	145.28	141.13	450.00	437.16	ng	-3	15	
GC05	H	316105674009	14-MAR-2006 13:28	316013420001	09-JAN-2006	461.24	432.03	450.00	421.51	ng	-6	15	
GC05	I	316105674009	14-MAR-2006 13:28	316013420001	09-JAN-2006	145.28	157.84	450.00	488.93	ng	9	15	
GC05	H	316105674021	15-MAR-2006 00:44	316013420001	09-JAN-2006	461.24	434.31	450.00	423.73	ng	-6	15	
GC05	I	316105674021	15-MAR-2006 00:44	316013420001	09-JAN-2006	145.28	150.06	450.00	464.83	ng	3	15	
GC07	B	326106059002	14-MAR-2006 16:15	326038690002	27-JAN-2006	431.11	352.80	450.00	368.26	ng	**-18**	15	c- N/A
GC07	B	326106059013	14-MAR-2006 22:52	326038690002	27-JAN-2006	431.11	307.83	450.00	321.31	ng	**-29**	15	c-
GC07	B	326106059027	15-MAR-2006 07:18	326038690002	27-JAN-2006	431.11	296.66	450.00	309.66	ng	**-31**	15	c-

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CONTINUING CALIBRATION SUMMARY FOR 185511 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Bromofluorobenzene (PID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316105674002	14-MAR-2006 09:45	316013420001	09-JAN-2006	951.26	835.63	450.00	395.30	ng	-12	15	
GC05	I	316105674002	14-MAR-2006 09:45	316013420001	09-JAN-2006	320.20	311.35	450.00	437.55	ng	-3	15	
GC05	H	316105674009	14-MAR-2006 13:28	316013420001	09-JAN-2006	951.26	888.09	450.00	420.12	ng	-7	15	
GC05	I	316105674009	14-MAR-2006 13:28	316013420001	09-JAN-2006	320.20	350.91	450.00	493.15	ng	10	15	
GC05	H	316105674021	15-MAR-2006 00:44	316013420001	09-JAN-2006	951.26	869.71	450.00	411.42	ng	-9	15	
GC05	I	316105674021	15-MAR-2006 00:44	316013420001	09-JAN-2006	320.20	326.61	450.00	459.00	ng	2	15	
GC07	B	326106059002	14-MAR-2006 16:15	326038690002	27-JAN-2006	1319.6	963.74	450.00	328.64	ng	**-27**	15	c- N/A
GC07	B	326106059013	14-MAR-2006 22:52	326038690002	27-JAN-2006	1319.6	901.18	450.00	307.30	ng	**-32**	15	c-
GC07	B	326106059027	15-MAR-2006 07:18	326038690002	27-JAN-2006	1319.6	876.65	450.00	298.94	ng	**-34**	15	c-

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REPORTING SUMMARY FOR 185511 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185511-001	Gasoline C7-C12	GC05	G	03/14/06 17:07
185511-001	MTBE	GC05	H	03/14/06 17:07
185511-001	Benzene	GC05	H	03/14/06 17:07
185511-001	Toluene	GC05	H	03/14/06 17:07
185511-001	Ethylbenzene	GC05	H	03/14/06 17:07
185511-001	Trifluorotoluene (FID)	GC05	G	03/14/06 17:07
185511-001	Bromofluorobenzene (FID)	GC05	G	03/14/06 17:07
185511-001	Trifluorotoluene (PID)	GC05	H	03/14/06 17:07
185511-001	Bromofluorobenzene (PID)	GC05	H	03/14/06 17:07
185511-001	Xylene (total)	GC05	H	03/14/06 17:07
185511-002	Gasoline C7-C12	GC05	G	03/14/06 17:38
185511-002	MTBE	GC05	H	03/14/06 17:38
185511-002	Benzene	GC05	H	03/14/06 17:38
185511-002	Toluene	GC05	H	03/14/06 17:38
185511-002	Ethylbenzene	GC05	H	03/14/06 17:38
185511-002	Trifluorotoluene (FID)	GC05	G	03/14/06 17:38
185511-002	Bromofluorobenzene (FID)	GC05	G	03/14/06 17:38
185511-002	Trifluorotoluene (PID)	GC05	H	03/14/06 17:38
185511-002	Bromofluorobenzene (PID)	GC05	H	03/14/06 17:38
185511-002	Xylene (total)	GC05	H	03/14/06 17:38
185511-003	Gasoline C7-C12	GC07	A	03/14/06 19:15
185511-003	Trifluorotoluene (FID)	GC07	A	03/14/06 19:15
185511-003	Bromofluorobenzene (FID)	GC07	A	03/14/06 19:15
185511-004	Gasoline C7-C12	GC07	A	03/14/06 19:52
185511-004	Trifluorotoluene (FID)	GC07	A	03/14/06 19:52
185511-004	Bromofluorobenzene (FID)	GC07	A	03/14/06 19:52
185511-005	Gasoline C7-C12	GC07	A	03/14/06 20:28
185511-005	Trifluorotoluene (FID)	GC07	A	03/14/06 20:28
185511-005	Bromofluorobenzene (FID)	GC07	A	03/14/06 20:28
185511-006	Gasoline C7-C12	GC07	A	03/14/06 21:04
185511-006	Trifluorotoluene (FID)	GC07	A	03/14/06 21:04
185511-006	Bromofluorobenzene (FID)	GC07	A	03/14/06 21:04
185511-007	Gasoline C7-C12	GC07	A	03/14/06 21:40
185511-007	Trifluorotoluene (FID)	GC07	A	03/14/06 21:40
185511-007	Bromofluorobenzene (FID)	GC07	A	03/14/06 21:40
185511-008	Gasoline C7-C12	GC07	A	03/14/06 22:16
185511-008	Trifluorotoluene (FID)	GC07	A	03/14/06 22:16
185511-008	Bromofluorobenzene (FID)	GC07	A	03/14/06 22:16
185511-009	Gasoline C7-C12	GC07	A	03/15/06 01:16
185511-009	Trifluorotoluene (FID)	GC07	A	03/15/06 01:16
185511-009	Bromofluorobenzene (FID)	GC07	A	03/15/06 01:16
185511-010	Gasoline C7-C12	GC05	G	03/14/06 18:11
185511-010	MTBE	GC05	H	03/14/06 18:11
185511-010	Benzene	GC05	H	03/14/06 18:11
185511-010	Toluene	GC05	H	03/14/06 18:11

REPORTING SUMMARY FOR 185511 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185511-010	Ethylbenzene	GC05	H	03/14/06 18:11
185511-010	Trifluorotoluene (FID)	GC05	G	03/14/06 18:11
185511-010	Bromofluorobenzene (FID)	GC05	G	03/14/06 18:11
185511-010	Trifluorotoluene (PID)	GC05	H	03/14/06 18:11
185511-010	Bromofluorobenzene (PID)	GC05	H	03/14/06 18:11
185511-010	Xylene (total)	GC05	H	03/14/06 18:11
185511-011	Gasoline C7-C12	GC05	G	03/14/06 18:42
185511-011	MTBE	GC05	H	03/14/06 18:42
185511-011	Benzene	GC05	H	03/14/06 18:42
185511-011	Toluene	GC05	H	03/14/06 18:42
185511-011	Ethylbenzene	GC05	H	03/14/06 18:42
185511-011	Trifluorotoluene (FID)	GC05	G	03/14/06 18:42
185511-011	Bromofluorobenzene (FID)	GC05	G	03/14/06 18:42
185511-011	Trifluorotoluene (PID)	GC05	H	03/14/06 18:42
185511-011	Bromofluorobenzene (PID)	GC05	H	03/14/06 18:42
185511-011	Xylene (total)	GC05	H	03/14/06 18:42
185511-012	Gasoline C7-C12	GC07	A	03/14/06 18:03
185511-012	Stoddard Solvent C7-C12	GC07	A	03/14/06 18:03
185511-012	Trifluorotoluene (FID)	GC07	A	03/14/06 18:03
185511-012	Bromofluorobenzene (FID)	GC07	A	03/14/06 18:03
185511-013	Gasoline C7-C12	GC07	A	03/14/06 18:39
185511-013	Stoddard Solvent C7-C12	GC07	A	03/14/06 18:39
185511-013	Trifluorotoluene (FID)	GC07	A	03/14/06 18:39
185511-013	Bromofluorobenzene (FID)	GC07	A	03/14/06 18:39
185511-015	Gasoline C7-C12	GC07	A	03/15/06 01:52
185511-015	Trifluorotoluene (FID)	GC07	A	03/15/06 01:52
185511-015	Bromofluorobenzene (FID)	GC07	A	03/15/06 01:52
185511-016	Gasoline C7-C12	GC07	A	03/15/06 02:28
185511-016	Trifluorotoluene (FID)	GC07	A	03/15/06 02:28
185511-016	Bromofluorobenzene (FID)	GC07	A	03/15/06 02:28
185511-017	Gasoline C7-C12	GC07	A	03/15/06 03:04
185511-017	Trifluorotoluene (FID)	GC07	A	03/15/06 03:04
185511-017	Bromofluorobenzene (FID)	GC07	A	03/15/06 03:04
185511-018	Gasoline C7-C12	GC07	A	03/15/06 03:40
185511-018	Trifluorotoluene (FID)	GC07	A	03/15/06 03:40
185511-018	Bromofluorobenzene (FID)	GC07	A	03/15/06 03:40
185511-019	Gasoline C7-C12	GC07	A	03/15/06 04:17
185511-019	Trifluorotoluene (FID)	GC07	A	03/15/06 04:17
185511-019	Bromofluorobenzene (FID)	GC07	A	03/15/06 04:17
185511-020	Gasoline C7-C12	GC07	A	03/15/06 04:53
185511-020	Trifluorotoluene (FID)	GC07	A	03/15/06 04:53
185511-020	Bromofluorobenzene (FID)	GC07	A	03/15/06 04:53
185511-021	Gasoline C7-C12	GC07	A	03/15/06 05:29
185511-021	Trifluorotoluene (FID)	GC07	A	03/15/06 05:29

REPORTING SUMMARY FOR 185511 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185511-021	Bromofluorobenzene (FID)	GC07	A	03/15/06 05:29
185511-022	Gasoline C7-C12	GC07	A	03/15/06 08:30
185511-022	Trifluorotoluene (FID)	GC07	A	03/15/06 08:30
185511-022	Bromofluorobenzene (FID)	GC07	A	03/15/06 08:30
185511-023	Gasoline C7-C12	GC07	A	03/15/06 09:06
185511-023	Trifluorotoluene (FID)	GC07	A	03/15/06 09:06
185511-023	Bromofluorobenzene (FID)	GC07	A	03/15/06 09:06
185511-024	Gasoline C7-C12	GC07	A	03/15/06 09:42
185511-024	Trifluorotoluene (FID)	GC07	A	03/15/06 09:42
185511-024	Bromofluorobenzene (FID)	GC07	A	03/15/06 09:42
185511-025	Gasoline C7-C12	GC07	A	03/15/06 10:18
185511-025	Trifluorotoluene (FID)	GC07	A	03/15/06 10:18
185511-025	Bromofluorobenzene (FID)	GC07	A	03/15/06 10:18
QC331342	Gasoline C7-C12	GC05	G	03/14/06 10:48
QC331342	MTBE	GC05	H	03/14/06 10:48
QC331342	Benzene	GC05	H	03/14/06 10:48
QC331342	Toluene	GC05	H	03/14/06 10:48
QC331342	Ethylbenzene	GC05	H	03/14/06 10:48
QC331342	Trifluorotoluene (FID)	GC05	G	03/14/06 10:48
QC331342	Bromofluorobenzene (FID)	GC05	G	03/14/06 10:48
QC331342	Trifluorotoluene (PID)	GC05	H	03/14/06 10:48
QC331342	Bromofluorobenzene (PID)	GC05	H	03/14/06 10:48
QC331342	Xylene (total)	GC05	H	03/14/06 10:48
QC331343	MTBE	GC05	H	03/14/06 09:45
QC331343	Benzene	GC05	H	03/14/06 09:45
QC331343	Toluene	GC05	H	03/14/06 09:45
QC331343	Ethylbenzene	GC05	H	03/14/06 09:45
QC331343	Trifluorotoluene (PID)	GC05	H	03/14/06 09:45
QC331343	Bromofluorobenzene (PID)	GC05	H	03/14/06 09:45
QC331344	Gasoline C7-C12	GC05	G	03/14/06 10:17
QC331344	Trifluorotoluene (FID)	GC05	G	03/14/06 10:17
QC331344	Bromofluorobenzene (FID)	GC05	G	03/14/06 10:17
QC331348	Gasoline C7-C12	GC05	G	03/14/06 12:23
QC331348	Trifluorotoluene (FID)	GC05	G	03/14/06 12:23
QC331348	Bromofluorobenzene (FID)	GC05	G	03/14/06 12:23
QC331349	Gasoline C7-C12	GC05	G	03/14/06 12:54
QC331349	Trifluorotoluene (FID)	GC05	G	03/14/06 12:54
QC331349	Bromofluorobenzene (FID)	GC05	G	03/14/06 12:54
QC331451	Gasoline C7-C12	GC07	A	03/14/06 17:27
QC331451	Stoddard Solvent C7-C12	GC07	A	03/14/06 17:27
QC331451	Trifluorotoluene (FID)	GC07	A	03/14/06 17:27
QC331451	Bromofluorobenzene (FID)	GC07	A	03/14/06 17:27
QC331452	Gasoline C7-C12	GC07	A	03/14/06 16:15

REPORTING SUMMARY FOR 185511 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC331452	Trifluorotoluene (FID)	GC07	A	03/14/06 16:15
QC331452	Bromofluorobenzene (FID)	GC07	A	03/14/06 16:15
QC331452	Trifluorotoluene (PID)	GC07	B	03/14/06 16:15
QC331452	Bromofluorobenzene (PID)	GC07	B	03/14/06 16:15
QC331471	Gasoline C7-C12	GC07	A	03/15/06 06:05
QC331471	Trifluorotoluene (FID)	GC07	A	03/15/06 06:05
QC331471	Bromofluorobenzene (FID)	GC07	A	03/15/06 06:05
QC331471	Trifluorotoluene (PID)	GC07	B	03/15/06 06:05
QC331471	Bromofluorobenzene (PID)	GC07	B	03/15/06 06:05
QC331472	Gasoline C7-C12	GC07	A	03/15/06 06:42
QC331472	Trifluorotoluene (FID)	GC07	A	03/15/06 06:42
QC331472	Bromofluorobenzene (FID)	GC07	A	03/15/06 06:42
QC331472	Trifluorotoluene (PID)	GC07	B	03/15/06 06:42
QC331472	Bromofluorobenzene (PID)	GC07	B	03/15/06 06:42
QC331515	Gasoline C7-C12	GC05	G	03/15/06 03:21
QC331515	Trifluorotoluene (FID)	GC05	G	03/15/06 03:21
QC331515	Bromofluorobenzene (FID)	GC05	G	03/15/06 03:21
QC331516	Gasoline C7-C12	GC05	G	03/15/06 03:53
QC331516	Trifluorotoluene (FID)	GC05	G	03/15/06 03:53
QC331516	Bromofluorobenzene (FID)	GC05	G	03/15/06 03:53

PROJECT GC 05 SEQUENCE LOG BOOK

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316105674 Instrument: GC05
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #5 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 14-MAR-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	073_001	X	ib			14-MAR-2006 09:14	1.0					1	
002	073_002	CCV/LCS	QC331343	111269	Water	14-MAR-2006 09:45	1.0		5000			2 1 PASS	
003	073_003	CCV/LCS	QC331344	111269	Water	14-MAR-2006 10:17	1.0		5000			3 1 ↓	
004	073_004	BLANK	QC331342	111269	Water	14-MAR-2006 10:48	1.0	2	5000			1 <1/2 RL	
005	073_005	MSS	185299-001	111269	Water	14-MAR-2006 11:20	1.0	1	5000	C	10	1	
006	073_006	SAMPLE	185430-004	111269	Water	14-MAR-2006 11:51	40.0		5000	B	13	1	
007	073_007	MS	QC331348	111269	Water	14-MAR-2006 12:23	1.0		5000	C	10	3 1 PASS	
008	073_008	MSD	QC331349	111269	Water	14-MAR-2006 12:54	1.0		5000	↓	↓	3 1	
009	073_009	CCV	mbtxe	111269		14-MAR-2006 13:28	1.0		5000			2 1	
010	073_010	CCV	tvh	111269		14-MAR-2006 14:00	1.0		5000			3 1 ↓	
011	073_011	SAMPLE	185511-001	111269	Water	14-MAR-2006 17:07	1.0	1	5000	A	13	1	
012	073_012	SAMPLE	185511-002	111269	Water	14-MAR-2006 17:38	1.0	1	5000			1	
013	073_013	SAMPLE	185511-010	111269	Water	14-MAR-2006 18:11	1.0	1	5000			1	
014	073_014	SAMPLE	185511-011	111269	Water	14-MAR-2006 18:42	1.0	1	5000			1	
015	073_015	SAMPLE	185523-001	111269	Water	14-MAR-2006 21:35	1.0		5000			1	
016	073_016	SAMPLE	185523-002	111269	Water	14-MAR-2006 22:07	1.0		5000			1	
017	073_017	SAMPLE	185523-003	111269	Water	14-MAR-2006 22:38	1.0		5000		16	1	
018	073_018	SAMPLE	185523-004	111269	Water	14-MAR-2006 23:10	1.0		5000			1	
019	073_019	SAMPLE	185525-001	111269	Water	14-MAR-2006 23:41	1.0		5000			1	
020	073_020	SAMPLE	185525-004	111269	Water	15-MAR-2006 00:13	1.0		5000			1	
021	073_021	CCV	mbtxe	111269		15-MAR-2006 00:44	1.0		5000	↓	13	1	
022	073_022	CCV	mbtxe	111269		15-MAR-2006 01:16	1.0		5000			2 1 PASS	
023	073_023	CCV	tvh	111269		15-MAR-2006 01:47	1.0		5000			2 1	
024	073_024	CCV	tvh	111269		15-MAR-2006 02:18	1.0		5000			3 1	
025	073_025	MSS	185525-002	111269	Water	15-MAR-2006 02:50	1.0	1	5000			3 1 ↓	
026	073_026	MS	QC331515	111269	Water	15-MAR-2006 03:21	1.0		5000	A	13	1	
027	073_027	MSD	QC331516	111269	Water	15-MAR-2006 03:53	1.0		5000			3 1 PASS	
028	073_028	SAMPLE	185525-005	111269	Water	15-MAR-2006 04:24	1.0	1	5000			3 1 ↓	
029	073_029	SAMPLE	185525-007	111269	Water	15-MAR-2006 04:55	1.0		5000			1	
030	073_030	SAMPLE	185525-008	111269	Water	15-MAR-2006 05:26	1.0		5000			1	

Stds used: 1=S2543 2=S2650 3=S2869

Analyst: TJP Date: 3/15/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316105674 Instrument: GC05
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #5 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 14-MAR-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
031	073_031	SAMPLE	185525-010	111269	Water	15-MAR-2006 05:57	1.0		5000	A	13	1	
032	073_032	SAMPLE	185525-011	111269	Water	15-MAR-2006 06:29	1.0		5000			1	
033	073_033	SAMPLE	185525-012	111269	Water	15-MAR-2006 07:00	1.0		5000	↓	↓	1	
034	073_034	CCV	tvh	111269		15-MAR-2006 07:31	1.0		5000			3 1 PASS	
035	073_035	CCV	tvh	111269		15-MAR-2006 08:03	1.0		5000			3 1 ↓	

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Stds used: 1=S2543 2=S2650 3=S2869

Analyst: TJP Date: 3/15/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 326106059 Instrument: GC07
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #7 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 14-MAR-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	073_001	X	ib			14-MAR-2006 15:39	1.0					1	
002	073_002	CCV/LCS	QC331452	111294	Water	14-MAR-2006 16:15	1.0	2	5000			2 1 PASS	
003	073_003	CCV	stoddard	111294		14-MAR-2006 16:51	1.0		5000			3 1 ↓	
004	073_004	BLANK	QC331451	111294	Water	14-MAR-2006 17:27	1.0	1	5000			1 <1/2 RL	
005	073_005	SAMPLE	185511-012	111294	Water	14-MAR-2006 18:03	1.0		5000	A	1.3	1	
006	073_006	SAMPLE	185511-013	111294	Water	14-MAR-2006 18:39	1.0		5000			1	
007	073_007	MSS	185511-003	111294	Water	14-MAR-2006 19:15	1.0	7	5000			1	
008	073_008	SAMPLE	185511-004	111294	Water	14-MAR-2006 19:52	1.0		5000			1	
009	073_009	SAMPLE	185511-005	111294	Water	14-MAR-2006 20:28	1.0		5000		↓	1	
010	073_010	SAMPLE	185511-006	111294	Water	14-MAR-2006 21:04	1.0		5000		1.6	1	
011	073_011	SAMPLE	185511-007	111294	Water	14-MAR-2006 21:40	1.0		5000		1.3	1	
012	073_012	SAMPLE	185511-008	111294	Water	14-MAR-2006 22:16	1.0		5000	↓	↓	1	
013	073_013	CCV	tvh	111294		14-MAR-2006 22:52	1.0		5000			2 1 PASS	
014	073_014	CCV	tvh	111294		14-MAR-2006 23:28	1.0		5000			2 1	
015	073_015	CCV	stoddard	111294		15-MAR-2006 00:04	1.0		5000			3 1	
016	073_016	CCV	stoddard	111294		15-MAR-2006 00:39	1.0		5000			3 1 ↓	
017	073_017	SAMPLE	185511-009	111294	Water	15-MAR-2006 01:16	1.0		5000	A	1.3	1	
018	073_018	SAMPLE	185511-015	111294	Water	15-MAR-2006 01:52	1.0		5000		1.6	1	
019	073_019	SAMPLE	185511-016	111294	Water	15-MAR-2006 02:28	1.0		5000		↓	1	
020	073_020	SAMPLE	185511-017	111294	Water	15-MAR-2006 03:04	1.0		5000		1.3	1	
021	073_021	SAMPLE	185511-018	111294	Water	15-MAR-2006 03:40	1.0		5000			1	
022	073_022	SAMPLE	185511-019	111294	Water	15-MAR-2006 04:17	1.0		5000		↓	1	
023	073_023	SAMPLE	185511-020	111294	Water	15-MAR-2006 04:53	1.0		5000		1.6	1	
024	073_024	SAMPLE	185511-021	111294	Water	15-MAR-2006 05:29	1.0		5000		↓	1	
025	073_025	MS	QC331471	111294	Water	15-MAR-2006 06:05	1.0		5000		1.3	2 1 PASS	
026	073_026	MSD	QC331472	111294	Water	15-MAR-2006 06:42	1.0		5000	↓	↓	2 1	
027	073_027	CCV	tvh	111294		15-MAR-2006 07:18	1.0		5000			2 1	
028	073_028	CCV	tvh	111294		15-MAR-2006 07:54	1.0		5000			2 1 ↓	
029	073_029	SAMPLE	185511-022	111294	Water	15-MAR-2006 08:30	1.0	1	5000	A	1.3	1	
030	073_030	SAMPLE	185511-023	111294	Water	15-MAR-2006 09:06	1.0	1	5000	↓	1.6	1	

Stds used: 1=S2543 2=S2869 3=S2169

Analyst: TJP Date: 3/15/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 326106059 Instrument: GC07
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #7 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 14-MAR-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
031	073_031	SAMPLE	185511-024	111294	Water	15-MAR-2006 09:42	1.0	1	5000	A	1.3	1	
032	073_032	SAMPLE	185511-025	111294	Water	15-MAR-2006 10:18	1.0	1	5000	↓	↓	1	
033	073_033	CCV	tvh	111294		15-MAR-2006 10:54	1.0		5000			2 1 PASS	

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Stds used: 1=S2543 2=S2869 3=S2169

Analyst: TJP Date: 3/15/06

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PROJECT GC05 Sequence by BJK

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 11-DEC-2005

Sequence: 315497353 Instrument: GC05
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #5 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC SPK uL	VL	pH	Stds Used	>LR
001	345_001	X	ib			11-DEC-2005 09:13	1.0				1	
002	345_002	X	ib			11-DEC-2005 09:44	1.0				1	
003	345_003	ICAL	tvh 1			11-DEC-2005 10:16	1.0				2 1 pass	
004	345_004	ICAL	tvh 2			11-DEC-2005 10:48	1.0				3 1	
005	345_005	ICAL	tvh 3			11-DEC-2005 11:19	1.0				4 1	
006	345_006	ICAL	tvh 4			11-DEC-2005 11:51	1.0				5 1	
007	345_007	ICAL	tvh 5			11-DEC-2005 12:23	1.0				5 1	
008	345_008	X	ib			11-DEC-2005 12:55	1.0				1	
009	345_009	X	tvh			11-DEC-2005 13:26	1.0	5000			6 1 Not used	
010	345_010	ICV	tvh			11-DEC-2005 13:58	1.0	5000			7 1 pass	
011	345_011	X	ib			11-DEC-2005 14:30	1.0				1	
012	345_012	X	carbmark			11-DEC-2005 15:02	1.0				8 9 1	

Stds used: 1=S1895 2=S1367 3=S1368 4=S1369 5=S1370 6=S2152 7=S2241 8=S1645 9=S1646

Analyst: BJK Date: 12/13/05

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316013420 Instrument: GC05
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #5 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 09-JAN-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL (code 10)	pH	Stds Used	>LR
001	009_001	X	ib			09-JAN-2006 07:40	1.0					1	
002	009_002	X	mbtxe		Water	09-JAN-2006 08:11	1.0					2 1 Not used	
003	009_003	X	gas		Water	09-JAN-2006 08:43	1.0					3 1	
004	009_004	X	ib			09-JAN-2006 09:14	1.0					1	
005	009_005	X	ib			09-JAN-2006 11:29	1.0					1	
006	009_006	ICAL	tft/bfb 1			09-JAN-2006 12:00	1.0					4 PASS/USE	
007	009_007	ICAL	tft/bfb 2			09-JAN-2006 12:32	1.0					5	
008	009_008	ICAL	tft/bfb 3			09-JAN-2006 13:04	1.0					6	
009	009_009	ICAL	tft/bfb 4			09-JAN-2006 13:42	1.0					7	
010	009_010	ICAL	tft/bfb 5			09-JAN-2006 14:13	1.0					8	
011	009_011	X	ib			09-JAN-2006 15:31	1.0					1	
012	009_012	CCV/LCS	QC323487	109331	Soil	09-JAN-2006 16:03	1.0		5000			2 1 PASS/USE	
013	009_013	CCV/LCS	QC323488	109331	Soil	09-JAN-2006 16:35	1.0	1	5000			3 1	
014	009_014	BLANK	QC323486	109331	Soil	09-JAN-2006 17:06	1.0	4	5000			1 ≤ 1/2 RL	
015	009_015	MSS	184210-025	109331	Soil	09-JAN-2006 18:44	1.0	1	5000	Comp		1	
016	009_016	MS	QC323558	109331	Soil	09-JAN-2006 19:15	1.0	2	5000			3 1 PASS/USE	
017	009_017	MSD	QC323559	109331	Soil	09-JAN-2006 19:47	1.0	2	5000			3 1	
018	009_018	SAMPLE	184210-019	109331	Soil	09-JAN-2006 20:18	1.0		5000			1	
019	009_019	SAMPLE	184210-020	109331	Soil	09-JAN-2006 20:50	1.0		5000			1	
020	009_020	SAMPLE	184210-021	109331	Soil	09-JAN-2006 21:22	1.0		5000			1	
021	009_021	SAMPLE	184210-022	109331	Soil	09-JAN-2006 21:53	1.0		5000			1	
022	009_022	CCV	btxe	109331		09-JAN-2006 22:25	1.0		5000			2 1 PASS/USE	
023	009_023	CCV	btxe	109331		09-JAN-2006 22:56	1.0		5000			2 1	
024	009_024	CCV	tvh	109331		09-JAN-2006 23:28	1.0		5000			3 1	
025	009_025	CCV	tvh	109331		09-JAN-2006 23:59	1.0		5000			3 1	
026	009_026	SAMPLE	184210-023	109331	Soil	10-JAN-2006 00:31	1.0		5000	Comp		1	
027	009_027	SAMPLE	184210-024	109331	Soil	10-JAN-2006 01:03	1.0	6	5000			1	
028	009_028	SAMPLE	184210-024	109331	Soil	10-JAN-2006 07:38	1.0		5000			1	
029	009_029	SAMPLE	184210-026	109331	Soil	10-JAN-2006 08:09	1.0	1 2	5000			1	1:BR4FBZ=1175.89
030	009_030	SAMPLE	184210-027	109331	Soil	10-JAN-2006 08:41	1.0		5000			1	

Stds used: 1=S1895 2=S2369 3=S2400 4=S1889 5=S1890 6=S1891 7=S1892 8=S1893

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316013420 Instrument: GC05
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #5 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 09-JAN-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL (code 10)	pH	Stds Used	>LR
031	009_031	CCV	btxe	109331		10-JAN-2006 09:12	1.0		5000			2 1 PASS/USE	
032	009_032	CCV	tvh	109331		10-JAN-2006 09:44	1.0		5000			3 1	

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Stds used: 1=S1895 2=S2369 3=S2400 4=S1889 5=S1890 6=S1891 7=S1892 8=S1893

Analyst: [signature] Date: 01/10/06
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PROJECT GC05 Sequence Log Book

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316062601 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 12-FEB-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	043_001	X	ib			12-FEB-2006 11:21	1.0					1	
002	043_002	X	mbtxe check			12-FEB-2006 11:52	1.0					2 1 Not used	
003	043_003	X	ib			12-FEB-2006 12:24	1.0					1	
004	043_004	X	ib			12-FEB-2006 14:02	1.0					1	
005	043_005	ICAL	btxe 1			12-FEB-2006 14:34	1.0					3 1 Pass/use	
006	043_006	ICAL	mtbe 1			12-FEB-2006 15:06	1.0					4 1	
007	043_007	ICAL	mbtxe 2			12-FEB-2006 15:38	1.0					4 1	
008	043_008	ICAL	mbtxe 3			12-FEB-2006 16:10	1.0					4 1	
009	043_009	ICAL	mbtxe 4			12-FEB-2006 16:42	1.0					5 1	
010	043_010	ICAL	mbtxe 5			12-FEB-2006 17:13	1.0					5 1	
011	043_011	ICAL	mbtxe 6			12-FEB-2006 17:45	1.0					5 1	
012	043_012	ICAL	mtbe 7			12-FEB-2006 18:17	1.0					6 1	
013	043_013	X	ib			12-FEB-2006 18:49	1.0					1	
014	043_014	X	mbtxe			12-FEB-2006 19:21	1.0					7 1 Not used	
015	043_015	ICV	mbtxe			12-FEB-2006 19:53	1.0		5000			7 1 Pass/use	

Stds used: 1=S2543 2=S2650 3=S2368 4=S2367 5=S2366 6=S1492 7=S2157

Analyst: [signature] Date: 02/13/06

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[signature] 02/13/06

Signed [signature] Date 02/13/06 77

Signed [signature] Date 2/13/06

Read and Understood By

Continued on Page

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 326038690 Instrument: GC07 Gas Chromatograph #7 TVH/BTXE Begun: 26-JAN-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK uL	VL	pH	Stds Used	>LR
001	026_001	X	ib			26-JAN-2006 20:50	1.0					1	
002	026_002	X	Btxe 1			26-JAN-2006 21:25	1.0					2 1 Not used	
003	026_003	X	Mbtxe 1			26-JAN-2006 22:00	1.0					3 1	
004	026_004	X	Mbtxe 2			26-JAN-2006 22:35	1.0					3 1	
005	026_005	X	Mbtxe 3			26-JAN-2006 23:10	1.0					3 1	
006	026_006	X	Mbtxe 4			26-JAN-2006 23:46	1.0					4 1	
007	026_007	X	Mbtxe 5			27-JAN-2006 00:21	1.0					4 1	
008	026_008	X	Mbtxe 6			27-JAN-2006 00:56	1.0					4 1	
009	026_009	X	Mbtxe 7			27-JAN-2006 01:31	1.0					5 1	
010	026_010	X	ib			27-JAN-2006 02:06	1.0					1	
011	026_011	X	Mbtxe			27-JAN-2006 02:41	1.0					6 1 Not used	
012	026_012	X	Mbtxe			27-JAN-2006 03:16	1.0					6 1	
013	026_013	X	ib			27-JAN-2006 03:52	1.0					1	
014	026_014	ICAL	tvh 1			27-JAN-2006 04:27	1.0					7 1 pass	
015	026_015	ICAL	tvh 2			27-JAN-2006 05:02	1.0					8 1	
016	026_016	ICAL	tvh 3			27-JAN-2006 05:37	1.0					9 1	
017	026_017	ICAL	tvh 4			27-JAN-2006 06:12	1.0					10 1	
018	026_018	ICAL	tvh 5			27-JAN-2006 06:47	1.0					10 1	
019	026_019	X	ib			27-JAN-2006 07:22	1.0					1	
020	026_020	X	tvh			27-JAN-2006 07:57	1.0					11 1 Not Use	
021	026_021	ICV	tvh			27-JAN-2006 08:32	1.0	2	5000			11 1 pass 3:BZME=2288.94	
022	026_022	X	ib			27-JAN-2006 09:08	1.0					1	
023	026_023	X	carbmark			27-JAN-2006 09:43	1.0					12 13 1 Use	
024	026_024	X	ib			27-JAN-2006 12:51	1.0					1	
025	026_025	X	ib			27-JAN-2006 13:26	1.0					1	
026	026_026	ICAL	tft/bfb 1			27-JAN-2006 14:01	1.0					14 pass/use	
027	026_027	ICAL	tft/bfb 2			27-JAN-2006 14:37	1.0					15	
028	026_028	ICAL	tft/bfb 3			27-JAN-2006 15:12	1.0					16	
029	026_029	ICAL	tft/bfb 4			27-JAN-2006 16:48	1.0					17	
030	026_030	ICAL	tft/bfb 5			27-JAN-2006 17:24	1.0					18	

Stds used: 1=S2543 2=S2368 3=S2367 4=S2366 5=S1492 6=S2157 7=S2395 8=S2396 9=S2397 10=S2399 11=S2557 12=S1645 13=S1646 14=S2572 15=S2573 16=S2574 17=S2575 18=S2576

Analyst: _____ Date: 1/30/06

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1/30/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 326038690 Instrument: GC07 Gas Chromatograph #7 TVH/BTXE Begun: 26-JAN-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK uL	VL	pH	Stds Used	>LR
031	026_031	X	ib			27-JAN-2006 18:59	1.0					1	

1/30/06

Stds used: 1=S2543 2=S2368 3=S2367 4=S2366 5=S1492 6=S2157 7=S2395 8=S2396 9=S2397 10=S2399 11=S2557 12=S1645 13=S1646 14=S2572 15=S2573 16=S2574 17=S2575 18=S2576

Analyst: _____ Date: 1/30/06

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Continued on Page

Read and Understood By

Signed 1/30/06 Date Signed 1/30/06 Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111269
Date Started: 14-MAR-2006
Batched by : Thelma Perez

Analysis : N/A
Bgroup : TVH
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185299-001			Iris Environmental	Water	MBTXE, TVH	14-MAR-2006
185430-004			Burns & McDonnell	Water	MBTXE, TVH	15-MAR-2006
185511-001			Treadwell & Rollo	Water	MBTXE, TVH	24-MAR-2006
185511-002			Treadwell & Rollo	Water	MBTXE, TVH	24-MAR-2006
185511-010			Treadwell & Rollo	Water	MBTXE, TVH	24-MAR-2006
185511-011			Treadwell & Rollo	Water	MBTXE, TVH	24-MAR-2006
185523-001			URS Corporation	Water	TVH	20-MAR-2006
185523-002			URS Corporation	Water	TVH	20-MAR-2006
185523-003			URS Corporation	Water	TVH	20-MAR-2006
185523-004			URS Corporation	Water	TVH	20-MAR-2006
185525-001			LFR Levine Fricke	Water	TVH	20-MAR-2006
185525-002			LFR Levine Fricke	Water	TVH	20-MAR-2006
185525-004			LFR Levine Fricke	Water	TVH	20-MAR-2006
185525-005			LFR Levine Fricke	Water	TVH	20-MAR-2006
185525-007			LFR Levine Fricke	Water	TVH	20-MAR-2006
185525-008			LFR Levine Fricke	Water	TVH	20-MAR-2006
185525-010			LFR Levine Fricke	Water	TVH	20-MAR-2006
185525-011			LFR Levine Fricke	Water	TVH	20-MAR-2006
185525-012			LFR Levine Fricke	Water	TVH	20-MAR-2006
QC331342	BLANK			Water		
QC331343	LCS			Water		
QC331344	LCS			Water		
QC331348	MS	of 185299-001		Water		
QC331349	MSD	of 185299-001		Water		
QC331515	MS	of 185525-002		Water		
QC331516	MSD	of 185525-002		Water		

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Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water
As of 04/29/06

Analyte	Units	GC19 X	GC04 A	GC04 J	GC05 G	GC07 A
Gasoline C6-C10	ug/L	21	6.7	6.2	4.8	10
Gasoline C6-C12	ug/L	21	5.5	6.8	4.5	14
Gasoline C7-C12	ug/L	27	4.8	7.2	4.2	15
JP-4 C7-C12	ug/L	4.6		12	9.9	19
Gasoline C6-C8	ug/L					7.0
Gasoline C8-C10	ug/L					12
Trifluorotoluene (FID)	ug/L		3.9			9.8
Bromofluorobenzene (FID)	ug/L		5.2			7.5

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8021B Water
As of 04/29/06

Analyte	Units	GC19 Y	GC19 Z	GC04 K	GC04 L	GC05 H	GC05 I	GC07 B	GC07 C
MTBE	ug/L	0.49	0.18	0.45	0.83	0.30	0.62	0.35	0.23
Benzene	ug/L	0.073	0.033	0.094	0.16	0.034	0.057	0.23	0.035
Toluene	ug/L	0.13	0.025	0.14	0.11	0.048	0.15	0.069	0.024
Ethylbenzene	ug/L	0.14	0.024	0.038	0.12	0.036	0.17	0.084	0.056
m,p-Xylenes	ug/L	0.13	0.039	0.10	0.21	0.030	0.17	0.090	0.027
o-Xylene	ug/L	0.15	0.015	0.12	0.10	0.083	0.19	0.13	0.040

TOTAL EXTRACTABLE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/13/06
Units:	ug/L	Received:	03/14/06
Diln Fac:	1.000		

Field ID:	1065PZ4B	Prepared:	03/22/06
Type:	SAMPLE	Analyzed:	03/24/06
Lab ID:	185511-001	Cleanup Method:	EPA 3630C
Batch#:	111566		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	90	65-135

Field ID:	1065PZ5B	Prepared:	03/22/06
Type:	SAMPLE	Analyzed:	03/24/06
Lab ID:	185511-002	Cleanup Method:	EPA 3630C
Batch#:	111566		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	92	65-135

Field ID:	937GW12	Prepared:	03/22/06
Type:	SAMPLE	Analyzed:	03/24/06
Lab ID:	185511-003	Cleanup Method:	EPA 3630C
Batch#:	111566		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	95	65-135

Field ID:	937GW101	Prepared:	03/22/06
Type:	SAMPLE	Analyzed:	03/24/06
Lab ID:	185511-004	Cleanup Method:	EPA 3630C
Batch#:	111566		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	98	65-135

L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/13/06
Units:	ug/L	Received:	03/14/06
Diln Fac:	1.000		

Field ID:	937GW102	Prepared:	03/22/06
Type:	SAMPLE	Analyzed:	03/24/06
Lab ID:	185511-005	Cleanup Method:	EPA 3630C
Batch#:	111566		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	94	65-135

Field ID:	937GW103	Prepared:	03/22/06
Type:	SAMPLE	Analyzed:	03/23/06
Lab ID:	185511-006	Cleanup Method:	EPA 3630C
Batch#:	111566		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	99	65-135

Field ID:	937GW108	Prepared:	03/22/06
Type:	SAMPLE	Analyzed:	03/23/06
Lab ID:	185511-007	Cleanup Method:	EPA 3630C
Batch#:	111566		

Analyte	Result	RL
Diesel C12-C24	55 L Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	102	65-135

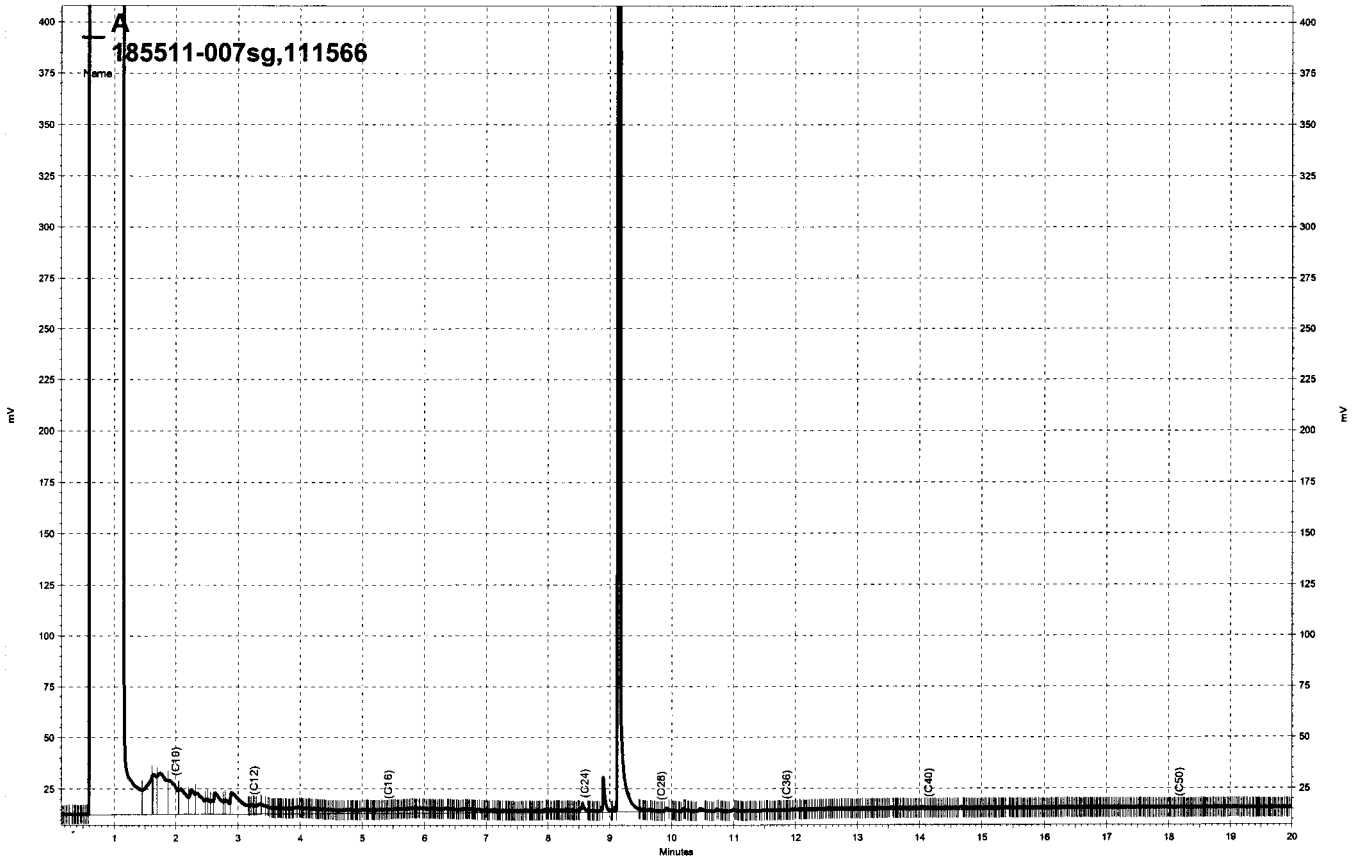
Field ID:	937GW102RB101	Prepared:	03/22/06
Type:	SAMPLE	Analyzed:	03/23/06
Lab ID:	185511-008	Cleanup Method:	EPA 3630C
Batch#:	111566		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	106	65-135

L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

937GW108



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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/13/06
Units:	ug/L	Received:	03/14/06
Diln Fac:	1.000		

Field ID:	1065MW101	Prepared:	03/22/06
Type:	SAMPLE	Analyzed:	03/23/06
Lab ID:	185511-009	Cleanup Method:	EPA 3630C
Batch#:	111566		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	102	65-135

Field ID:	1065PZ2A	Prepared:	03/22/06
Type:	SAMPLE	Analyzed:	03/23/06
Lab ID:	185511-010	Cleanup Method:	EPA 3630C
Batch#:	111566		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	108	65-135

Field ID:	1065PZ3A	Prepared:	03/22/06
Type:	SAMPLE	Analyzed:	03/24/06
Lab ID:	185511-011	Cleanup Method:	EPA 3630C
Batch#:	111566		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	97	65-135

Field ID:	DW031306A	Prepared:	03/22/06
Type:	SAMPLE	Analyzed:	03/24/06
Lab ID:	185511-012	Cleanup Method:	EPA 3630C
Batch#:	111566		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	109	65-135

L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/13/06
Units:	ug/L	Received:	03/14/06
Diln Fac:	1.000		

Field ID:	DW031306B	Prepared:	03/23/06
Type:	SAMPLE	Analyzed:	03/25/06
Lab ID:	185511-013	Cleanup Method:	EPA 3630C
Batch#:	111619		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	81	65-135

Field ID:	937GW35	Prepared:	03/23/06
Type:	SAMPLE	Analyzed:	03/25/06
Lab ID:	185511-015	Cleanup Method:	EPA 3630C
Batch#:	111619		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	86	65-135

Field ID:	937GW39	Prepared:	03/23/06
Type:	SAMPLE	Analyzed:	03/25/06
Lab ID:	185511-016	Cleanup Method:	EPA 3630C
Batch#:	111619		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	82	65-135

Field ID:	937GW38	Prepared:	03/23/06
Type:	SAMPLE	Analyzed:	03/25/06
Lab ID:	185511-017	Cleanup Method:	EPA 3630C
Batch#:	111619		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	77	65-135

L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/13/06
Units:	ug/L	Received:	03/14/06
Diln Fac:	1.000		

Field ID:	937GW37	Prepared:	03/23/06
Type:	SAMPLE	Analyzed:	03/24/06
Lab ID:	185511-018	Cleanup Method:	EPA 3630C
Batch#:	111619		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	84	65-135

Field ID:	937GW104	Prepared:	03/23/06
Type:	SAMPLE	Analyzed:	03/24/06
Lab ID:	185511-019	Cleanup Method:	EPA 3630C
Batch#:	111619		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	79	65-135

Field ID:	979GW111R	Prepared:	03/23/06
Type:	SAMPLE	Analyzed:	03/24/06
Lab ID:	185511-020	Cleanup Method:	EPA 3630C
Batch#:	111619		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	70	65-135

Field ID:	979GW117	Prepared:	03/23/06
Type:	SAMPLE	Analyzed:	03/24/06
Lab ID:	185511-021	Cleanup Method:	EPA 3630C
Batch#:	111619		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	84	65-135

L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

REVISED

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/13/06
Units:	ug/L	Received:	03/14/06
Diln Fac:	1.000		

Field ID:	979GW115	Prepared:	03/23/06
Type:	SAMPLE	Analyzed:	03/24/06
Lab ID:	185511-022	Cleanup Method:	EPA 3630C
Batch#:	111619		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	89	65-135

Field ID:	937GW105	Prepared:	03/23/06
Type:	SAMPLE	Analyzed:	03/24/06
Lab ID:	185511-023	Cleanup Method:	EPA 3630C
Batch#:	111619		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	80	65-135

Field ID:	937GW105RB106	Prepared:	03/23/06
Type:	SAMPLE	Analyzed:	03/24/06
Lab ID:	185511-024	Cleanup Method:	EPA 3630C
Batch#:	111619		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	80	65-135

Field ID:	937GW106	Prepared:	03/23/06
Type:	SAMPLE	Analyzed:	03/24/06
Lab ID:	185511-025	Cleanup Method:	EPA 3630C
Batch#:	111619		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	81	65-135

L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

REVISED

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/13/06
Units:	ug/L	Received:	03/14/06
Diln Fac:	1.000		

Type:	BLANK	Prepared:	03/22/06
Lab ID:	QC332566	Analyzed:	03/24/06
Batch#:	111566	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	130	65-135

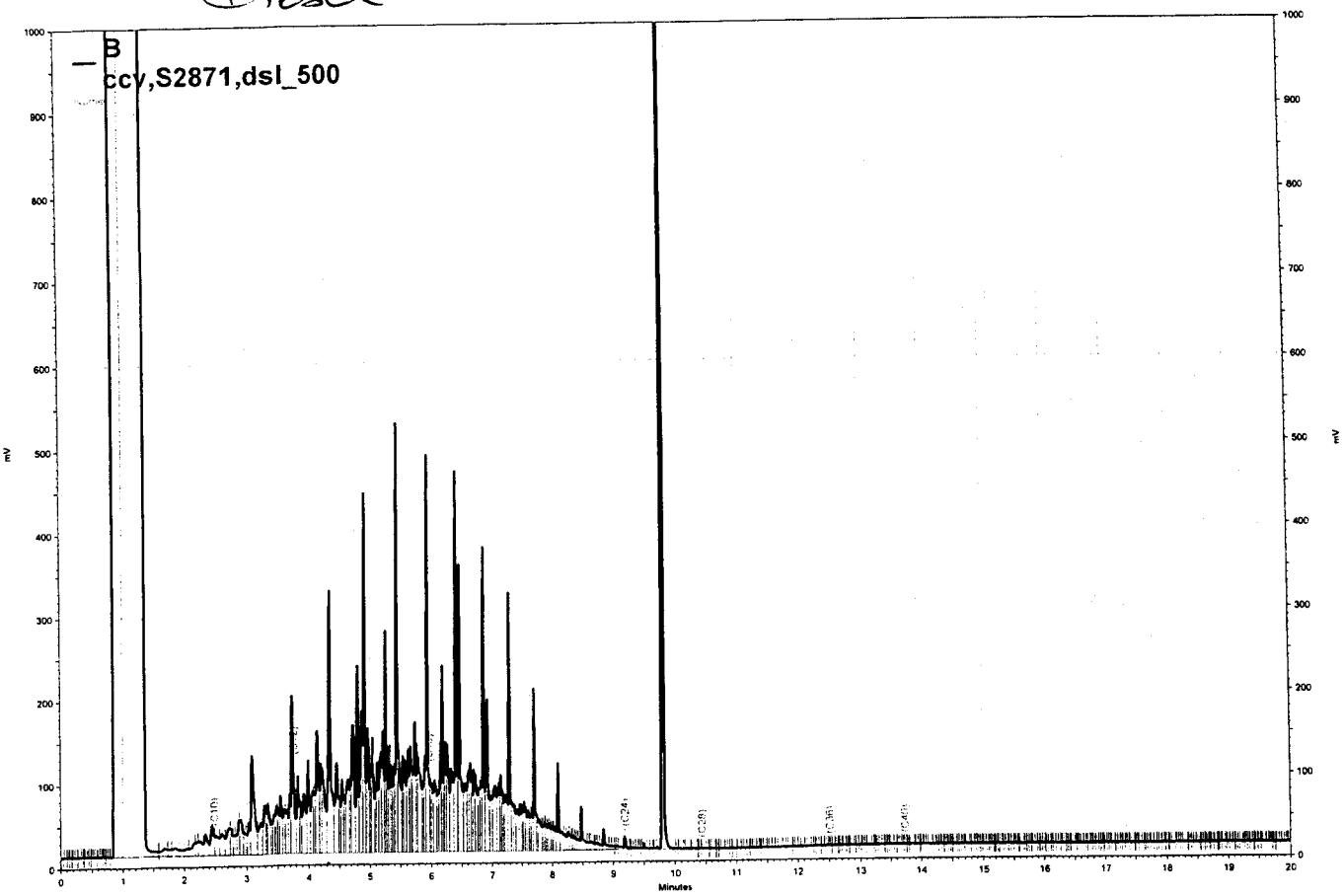
Type:	BLANK	Prepared:	03/23/06
Lab ID:	QC332792	Analyzed:	03/24/06
Batch#:	111619	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	72	65-135

L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Diesel



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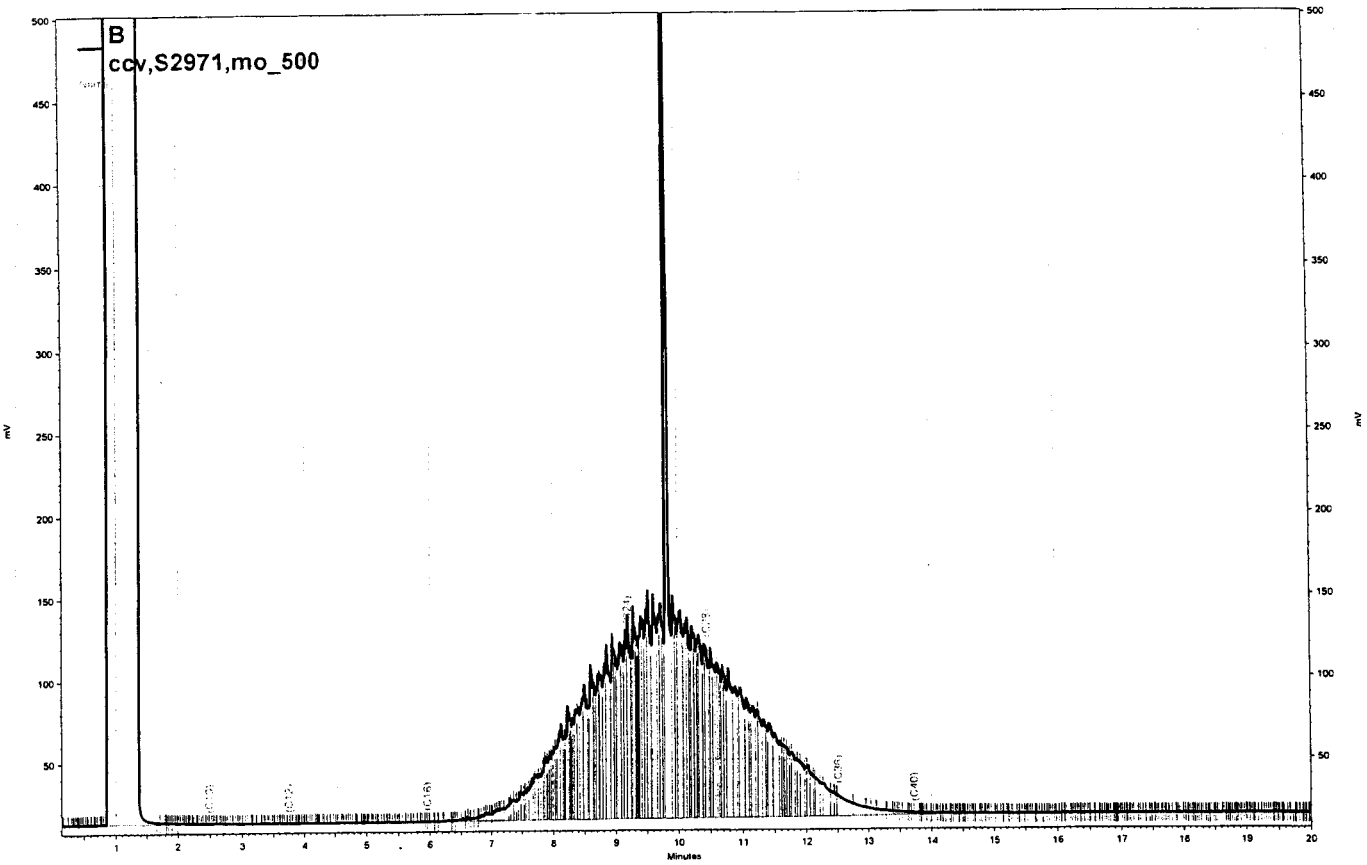
Motor Oil



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Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	111566
Units:	ug/L	Prepared:	03/22/06
Diln Fac:	1.000	Analyzed:	03/24/06

Type: BS
Lab ID: QC332567
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	2,500	2,951	118	65-135

Surrogate	%REC	Limits
Hexacosane	96	65-135

Type: BSD
Lab ID: QC332568
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,939	118	65-135	0	35

Surrogate	%REC	Limits
Hexacosane	94	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	111619
Units:	ug/L	Prepared:	03/23/06
Diln Fac:	1.000	Analyzed:	03/24/06

Type: BS Cleanup Method: EPA 3630C
Lab ID: QC332793

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	2,500	2,825	113	65-135

Surrogate	%REC	Limits
Hexacosane	85	65-135

Type: BSD Cleanup Method: EPA 3630C
Lab ID: QC332794

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,802	112	65-135	1	35

Surrogate	%REC	Limits
Hexacosane	86	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185511 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 115446255001
Units : mg/L

Name : Hexacosane
Date : 05-NOV-2005 21:35
X Axis : R

Reviewer: RH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	309a006	115446255006	hex_5	05-NOV-2005 21:35	S1469
L2	309a007	115446255007	hex_10	05-NOV-2005 22:02	S1470
L3	309a008	115446255008	hex_25	05-NOV-2005 22:30	S1471
L4	309a009	115446255009	hex_50	05-NOV-2005 22:58	S1472
L5	309a010	115446255010	hex_75	05-NOV-2005 23:25	S1473

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	78300	78621	78154	81971	77951	AVRG		1.27E-5		78999	2	0.995	20	

95

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185511 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 115446255002
Units : mg/L

Name : DIESEL
Date : 05-NOV-2005 23:53
X Axis : R

Reviewer: RH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	309a011	115446255011	dsl_10	05-NOV-2005 23:53	S1732
L2	309a013	115446255013	dsl_250	06-NOV-2005 00:49	S1734
L3	309a014	115446255014	dsl_500	06-NOV-2005 01:17	S1735
L4	309a015	115446255015	dsl_1000	06-NOV-2005 01:45	S1736
L5	309a016	115446255016	dsl_2500	06-NOV-2005 02:12	S1737
L6	309a017	115446255017	dsl_5000	06-NOV-2005 02:40	S1731
L7	309a039	115446255039	dsl_100	06-NOV-2005 22:23	S1733

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	66564	67471	67989	68804	69120	69411	70464	AVRG		1.46E-5		68546	2	0.995	20	

96

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185511 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 116049801004
Units : mg/L

Date : 04-FEB-2006 00:18
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	034a023	116049801023	mo_50	04-FEB-2006 00:18	S2118
L2	034a024	116049801024	mo_250	04-FEB-2006 00:46	S2119
L3	034a025	116049801025	mo_500	04-FEB-2006 01:14	S2120
L4	034a026	116049801026	mo_1000	04-FEB-2006 01:42	S2121
L5	034a027	116049801027	mo_2500	04-FEB-2006 02:10	S2122
L6	034a028	116049801028	mo_5000	04-FEB-2006 02:39	S2117

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	40103	42997	43448	44594	44247	45696	AVRG		2.30E-5		43514	4	0.995	20	

97

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185511 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166114247001
Units : mg/L

Date : 20-MAR-2006 14:52
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	079b007	166114247007	hex_5	20-MAR-2006 14:52	S2694
L2	079b008	166114247008	hex_10	20-MAR-2006 15:20	S2695
L3	079b009	166114247009	hex_25	20-MAR-2006 15:49	S2696
L4	079b010	166114247010	hex_50	20-MAR-2006 16:17	S2697
L5	079b011	166114247011	hex_75	20-MAR-2006 16:45	S2698

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	64028	62636	61750	60993	60763	AVRG		1.61E-5		62034	2	0.995	20	

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185511 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166115824002
Units : mg/L

Date : 21-MAR-2006 14:52
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	080b006	166115824006	mo_50	21-MAR-2006 14:52	S2118
L2	080b007	166115824007	mo_250	21-MAR-2006 15:20	S2119
L3	080b008	166115824008	mo_500	21-MAR-2006 15:49	S2120
L4	080b009	166115824009	mo_1000	21-MAR-2006 16:17	S2121
L5	080b010	166115824010	mo_2500	21-MAR-2006 16:46	S2122
L6	080b011	166115824011	mo_5000	21-MAR-2006 17:15	S2117

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	35689	35718	36071	34029	27094	20672	AVRG		3.17E-5		31546	20	0.995	20	

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185511 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166117087001
Units : mg/L

Date : 22-MAR-2006 12:39
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	081b006	166117087006	dsl_10	22-MAR-2006 12:39	S2961
L2	081b007	166117087007	dsl_100	22-MAR-2006 13:07	S2938
L3	081b008	166117087008	dsl_250	22-MAR-2006 13:34	S2939
L4	081b009	166117087009	dsl_500	22-MAR-2006 14:02	S2940
L5	081b010	166117087010	dsl_1000	22-MAR-2006 14:30	S2941
L6	081b011	166117087011	dsl_2500	22-MAR-2006 14:57	S2942
L7	081b012	166117087012	dsl_5000	22-MAR-2006 15:25	S2936

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	60107	59785	55253	54313	53973	54874	53381	AVRG		1.79E-5		55955	5	0.995	20	

100

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

166117087001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185511 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176085452001
Units : mg/L

Date : 01-MAR-2006 07:43
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	059a013	176085452013	dsl_50	01-MAR-2006 07:43	S1732
L2	059a014	176085452014	dsl_100	01-MAR-2006 08:10	S1733
L3	059a015	176085452015	dsl_250	01-MAR-2006 08:37	S1734
L4	059a016	176085452016	dsl_500	01-MAR-2006 09:04	S1735
L5	059a017	176085452017	dsl_1000	01-MAR-2006 09:32	S1736
L6	059a018	176085452018	dsl_2500	01-MAR-2006 10:00	S1737
L7	059a019	176085452019	dsl_5000	01-MAR-2006 10:27	S1731

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	55630	52210	52572	55087	56497	58583	60304	AVRG		1.79E-5		55841	5	0.995	20	

101

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185511 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176093018001
Units : mg/L

Date : 05-MAR-2006 18:11
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	064a007	176093018007	mo_50	05-MAR-2006 18:11	S2118
L2	064a008	176093018008	mo_250	05-MAR-2006 18:38	S2119
L3	064a009	176093018009	mo_500	05-MAR-2006 19:05	S2120
L4	064a010	176093018010	mo_1000	05-MAR-2006 19:32	S2121
L5	064a011	176093018011	mo_2500	05-MAR-2006 20:00	S2122
L6	064a012	176093018012	mo_5000	05-MAR-2006 20:27	S2117

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	35446	41492	40972	42562	41512	41334	AVRG		2.47E-5		40553	6	0.995	20	

102

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

176093018001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185511 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176098515001
Units : mg/L

Name : hexagc17cal
Date : 09-MAR-2006 19:42
X Axis : R

Reviewer: CW
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	068a015	176098515015	hex_5	09-MAR-2006 19:42	S2694
L2	068a016	176098515016	hex_10	09-MAR-2006 20:09	S2695
L3	068a017	176098515017	hex_25	09-MAR-2006 20:37	S2696
L4	068a018	176098515018	hex_50	09-MAR-2006 21:04	S2697
L5	068a019	176098515019	hex_75	09-MAR-2006 21:31	S2698

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	81036	80318	79162	79599	78325	AVRG		1.25E-5		79688	1	0.995	20	

103

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185511 GCSV Water
EPA 8015B

Inst : GC11A
Calnum : 115446255002

Name : DIESEL
Cal Date: 05-NOV-2005

ICV 115446255040 (309a040 06-NOV-2005) stds: S1178

Analyte	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	500.0	498.6	mg/L	0	

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185511 GCSV Water
EPA 8015B

Inst : GC15B
Calnum : 166117087001 Cal Date: 22-MAR-2006

ICV 166117087014 (081b014 22-MAR-2006) stds: S2708

Analyte	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	500.0	480.4	mg/L	-4	

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185511 GCSV Water
EPA 8015B

Inst : GC17A
Calnum : 176085452001 Cal Date: 01-MAR-2006

ICV 176085452021 (059a021 01-MAR-2006) stds: S2708

Analyte	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	500.0	454.9	mg/L	-9	

CONTINUING CALIBRATION SUMMARY FOR 185511 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116119976007	24-MAR-2006 10:50	115446255002	05-NOV-2005	68546	61996	1000.0	904.44	mg/L	-10	15	
GC11A	A	116119976016	24-MAR-2006 17:18	115446255002	05-NOV-2005	68546	63652	1000.0	928.60	mg/L	-7	15	
GC15B	B	166118528026	23-MAR-2006 21:09	166117087001	22-MAR-2006	55955	48492	250.00	216.66	mg/L	-13	15	
GC15B	B	166118528042	24-MAR-2006 04:35	166117087001	22-MAR-2006	55955	50655	500.00	452.64	mg/L	-9	15	
GC17A	A	176118906007	23-MAR-2006 16:57	176085452001	01-MAR-2006	55841	61062	1000.0	1093.5	mg/L	9	15	
GC17A	A	176118906021	23-MAR-2006 23:34	176085452001	01-MAR-2006	55841	55837	250.00	249.98	mg/L	0	15	
GC17A	A	176118906031	24-MAR-2006 04:06	176085452001	01-MAR-2006	55841	60554	500.00	542.20	mg/L	8	15	
GC17A	A	176120025003	24-MAR-2006 09:42	176085452001	01-MAR-2006	55841	59558	500.00	533.28	mg/L	7	15	
GC17A	A	176120025008	24-MAR-2006 12:38	176085452001	01-MAR-2006	55841	59555	1000.0	1066.5	mg/L	7	15	
GC17A	A	176120025022	24-MAR-2006 22:11	176085452001	01-MAR-2006	55841	56491	250.00	252.91	mg/L	1	15	
GC17A	A	176120025037	25-MAR-2006 05:01	176085452001	01-MAR-2006	55841	61026	500.00	546.43	mg/L	9	15	

CONTINUING CALIBRATION SUMMARY FOR 185511 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116119976006	24-MAR-2006 10:21	116049801004	04-FEB-2006	43514	38977	500.00	447.87	mg/L	-10	15	
GC11A	A	116119976015	24-MAR-2006 16:50	116049801004	04-FEB-2006	43514	39465	500.00	453.48	mg/L	-9	15	
GC15B	B	166118528027	23-MAR-2006 21:36	166115824002	21-MAR-2006	31546	31512	500.00	499.47	mg/L	0	15	
GC15B	B	166118528043	24-MAR-2006 05:03	166115824002	21-MAR-2006	31546	31690	500.00	502.29	mg/L	0	15	
GC17A	A	176118906006	23-MAR-2006 16:27	176093018001	05-MAR-2006	40553	37830	500.00	466.43	mg/L	-7	15	
GC17A	A	176118906020	23-MAR-2006 23:07	176093018001	05-MAR-2006	40553	39210	500.00	483.45	mg/L	-3	15	
GC17A	A	176118906030	24-MAR-2006 03:39	176093018001	05-MAR-2006	40553	38314	500.00	472.40	mg/L	-6	15	
GC17A	A	176120025007	24-MAR-2006 12:10	176093018001	05-MAR-2006	40553	36268	500.00	447.17	mg/L	-11	15	
GC17A	A	176120025021	24-MAR-2006 21:44	176093018001	05-MAR-2006	40553	35796	500.00	441.34	mg/L	-12	15	
GC17A	A	176120025036	25-MAR-2006 04:33	176093018001	05-MAR-2006	40553	38900	500.00	479.62	mg/L	-4	15	

CONTINUING CALIBRATION SUMMARY FOR 185511 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116119976006	24-MAR-2006 10:21	115446255001	05-NOV-2005	78999	70008	50.000	44.309	mg/L	-11	15	
GC11A	A	116119976015	24-MAR-2006 16:50	115446255001	05-NOV-2005	78999	70796	50.000	44.808	mg/L	-10	15	
GC15B	B	166118528026	23-MAR-2006 21:09	166114247001	20-MAR-2006	62034	61897	50.000	49.889	mg/L	0	15	
GC15B	B	166118528042	24-MAR-2006 04:35	166114247001	20-MAR-2006	62034	60860	50.000	49.054	mg/L	-2	15	
GC17A	A	176118906002	23-MAR-2006 14:13	176098515001	09-MAR-2006	79688	75395	50.000	47.306	mg/L	-5	15	
GC17A	A	176118906020	23-MAR-2006 23:07	176098515001	09-MAR-2006	79688	79083	50.000	49.621	mg/L	-1	15	
GC17A	A	176118906030	24-MAR-2006 03:39	176098515001	09-MAR-2006	79688	76911	50.000	48.258	mg/L	-3	15	
GC17A	A	176120025003	24-MAR-2006 09:42	176098515001	09-MAR-2006	79688	68627	50.000	43.060	mg/L	-14	15	
GC17A	A	176120025007	24-MAR-2006 12:10	176098515001	09-MAR-2006	79688	72372	50.000	45.410	mg/L	-9	15	
GC17A	A	176120025021	24-MAR-2006 21:44	176098515001	09-MAR-2006	79688	70846	50.000	44.452	mg/L	-11	15	
GC17A	A	176120025036	25-MAR-2006 04:33	176098515001	09-MAR-2006	79688	74667	50.000	46.850	mg/L	-6	15	

SEQUENCE SUMMARY FOR 185511 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 115446255 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 05-NOV-2005
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
003	309a003	X	c12-60			05-NOV-2005 20:11	1.0							
004	309a004	X	c50			05-NOV-2005 20:39	1.0							
005	309a005	X	ib			05-NOV-2005 21:07	1.0							
006	309a006	ICAL	hex_5			05-NOV-2005 21:35	1.0						1	
007	309a007	ICAL	hex_10			05-NOV-2005 22:02	1.0						2	
008	309a008	ICAL	hex_25			05-NOV-2005 22:30	1.0						3	
009	309a009	ICAL	hex_50			05-NOV-2005 22:58	1.0						4	
010	309a010	ICAL	hex_75			05-NOV-2005 23:25	1.0						5	
011	309a011	ICAL	dsl_10			05-NOV-2005 23:53	1.0						6	
013	309a013	ICAL	dsl_250			06-NOV-2005 00:49	1.0						7	
014	309a014	ICAL	dsl_500			06-NOV-2005 01:17	1.0						8	
015	309a015	ICAL	dsl_1000			06-NOV-2005 01:45	1.0						9	
016	309a016	ICAL	dsl_2500			06-NOV-2005 02:12	1.0						10	
017	309a017	ICAL	dsl_5000			06-NOV-2005 02:40	1.0						11	
039	309a039	ICAL	dsl_100			06-NOV-2005 22:23	1.0						12	110
040	309a040	ICV	dsl			06-NOV-2005 23:18	1.0			3			13	
041	309a041	ICAL	mo_50			06-NOV-2005 23:46	1.0						14	
042	309a042	ICAL	mo_250			07-NOV-2005 00:14	1.0						15	
043	309a043	ICAL	mo_500			07-NOV-2005 00:42	1.0						16	
044	309a044	ICAL	mo_1000			07-NOV-2005 01:10	1.0						17	
045	309a045	ICAL	mo_2500			07-NOV-2005 01:38	1.0						18	
046	309a046	ICAL	mo_5000			07-NOV-2005 02:06	1.0						19	

Stds used: 1=S1469 2=S1470 3=S1471 4=S1472 5=S1473 6=S1732 7=S1734 8=S1735 9=S1736 10=S1737 11=S1731 12=S1733 13=S1178 14=S693 15=S694 16=S695 17=S696 18=S697 19=S691

SEQUENCE SUMMARY FOR 185511 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116049801 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 03-FEB-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	034a001	X	primer			03-FEB-2006 14:01	1.0							
002	034a002	X	ib			03-FEB-2006 14:29	1.0							
003	034a003	CCV	dsl_250			03-FEB-2006 14:57	1.0			3			1	
004	034a004	X	ib			03-FEB-2006 15:25	1.0							
005	034a005	CCV	mo_500			03-FEB-2006 15:53	1.0	6		3			2	
006	034a006	?SAMPLE	184620-007			03-FEB-2006 16:21	1.0							
007	034a007	?SAMPLE	184620-008			03-FEB-2006 16:49	1.0							
008	034a008	?SAMPLE	184620-009			03-FEB-2006 17:17	1.0							
009	034a009	?SAMPLE	184620-010			03-FEB-2006 17:45	1.0							
010	034a010	X	ib			03-FEB-2006 18:13	1.0							
011	034a011	?SAMPLE	184620-006			03-FEB-2006 18:41	1.0							
012	034a012	?SAMPLE	184620-004			03-FEB-2006 19:09	1.0							
013	034a013	?SAMPLE	184620-005			03-FEB-2006 19:37	1.0							
014	034a014	X	ib			03-FEB-2006 20:05	1.0							
015	034a015	?SAMPLE	184620-001			03-FEB-2006 20:33	1.0							111
016	034a016	?SAMPLE	184620-002			03-FEB-2006 21:01	1.0							
017	034a017	?SAMPLE	184620-003			03-FEB-2006 21:29	1.0							
018	034a018	X	ib			03-FEB-2006 21:57	1.0							
019	034a019	CCV	dsl_500			03-FEB-2006 22:25	1.0						3	
020	034a020	X	ib			03-FEB-2006 22:54	1.0							
021	034a021	X	ib			03-FEB-2006 23:22	1.0							
022	034a022	X	ib			03-FEB-2006 23:50	1.0							
023	034a023	ICAL	mo_50			04-FEB-2006 00:18	1.0						4	
024	034a024	ICAL	mo_250			04-FEB-2006 00:46	1.0						5	
025	034a025	ICAL	mo_500			04-FEB-2006 01:14	1.0						6	
026	034a026	ICAL	mo_1000			04-FEB-2006 01:42	1.0						7	
027	034a027	ICAL	mo_2500			04-FEB-2006 02:10	1.0						8	
028	034a028	ICAL	mo_5000			04-FEB-2006 02:39	1.0						9	
029	034a029	X	ib			04-FEB-2006 03:07	1.0							

Stds used: 1=S2505 2=S2577 3=S2504 4=S2118 5=S2119 6=S2120 7=S2121 8=S2122 9=S2117

SEQUENCE SUMMARY FOR 185511 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176085452 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 28-FEB-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	059a001	X	primer			28-FEB-2006 08:12	1.0							
002	059a002	X	primer			28-FEB-2006 11:01	1.0							
003	059a003	X	ib			28-FEB-2006 11:28	1.0							
004	059a004	CCV	S2662.dsl_50			28-FEB-2006 11:56	1.0							
005	059a005	CCV	mo_500			28-FEB-2006 12:23	1.0						1	
006	059a006	X	ccv			28-FEB-2006 14:08	1.0						1	
007	059a007	CCV	dsl_500			28-FEB-2006 16:04	1.0			3			2	
008	059a008	CCV	mo_500			28-FEB-2006 18:04	1.0	6		3			1	
009	059a009	X	ib			28-FEB-2006 22:27	1.0							
010	059a010	X	c 10-16			28-FEB-2006 22:54	20.0							
011	059a011	X	c 12-60			28-FEB-2006 23:21	1.0							
012	059a012	X	ib			01-MAR-2006 07:15	1.0							
013	059a013	ICAL	dsl_50			01-MAR-2006 07:43	1.0						3	
014	059a014	ICAL	dsl_100			01-MAR-2006 08:10	1.0						4	
015	059a015	ICAL	dsl_250			01-MAR-2006 08:37	1.0						5	112
016	059a016	ICAL	dsl_500			01-MAR-2006 09:04	1.0						6	
017	059a017	ICAL	dsl_1000			01-MAR-2006 09:32	1.0						7	
018	059a018	ICAL	dsl_2500			01-MAR-2006 10:00	1.0						8	
019	059a019	ICAL	dsl_5000			01-MAR-2006 10:27	1.0						9	
020	059a020	X	ib			01-MAR-2006 10:54	1.0							
021	059a021	ICV	dsl_500			01-MAR-2006 11:22	1.0			3			10	
022	059a022	X	dsl_500			01-MAR-2006 11:49	1.0						10	
023	059a023	X	ib			01-MAR-2006 12:16	1.0							
024	059a024	ICAL	mo_50			01-MAR-2006 12:44	1.0						11	
025	059a025	ICAL	mo_250			01-MAR-2006 13:11	1.0						12	
026	059a026	ICAL	mo_500			01-MAR-2006 13:38	1.0						13	
027	059a027	ICAL	mo_1000			01-MAR-2006 14:06	1.0						14	
028	059a028	ICAL	mo_2500			01-MAR-2006 14:33	1.0						15	
029	059a029	ICAL	mo_5000			01-MAR-2006 15:01	1.0						16	
030	059a030	X	ib			01-MAR-2006 15:28	1.0							

Stds used: 1=S2741 2=S2662 3=S1732 4=S1733 5=S1734 6=S1735 7=S1736 8=S1737 9=S1731 10=S2708 11=S2118 12=S2119 13=S2120 14=S2121 15=S2122 16=S2117 17=S2694 18=S2695 19=S2696 20=S2697 21=S2698

SEQUENCE SUMMARY FOR 185511 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176085452 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 28-FEB-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
031	059a031	ICAL	hex_5			01-MAR-2006 15:55	1.0					17	
032	059a032	ICAL	hex_10			01-MAR-2006 16:23	1.0					18	
033	059a033	ICAL	hex_25			01-MAR-2006 16:50	1.0					19	
034	059a034	ICAL	hex_50			01-MAR-2006 17:17	1.0					20	
035	059a035	ICAL	hex_75			01-MAR-2006 17:44	1.0					21	
036	059a036	X	ib			01-MAR-2006 18:11	1.0						

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Stds used: 1=S2741 2=S2662 3=S1732 4=S1733 5=S1734 6=S1735 7=S1736 8=S1737 9=S1731 10=S2708 11=S2118 12=S2119 13=S2120 14=S2121 15=S2122 16=S2117 17=S2694 18=S2695 19=S2696 20=S2697 21=S2698

SEQUENCE SUMMARY FOR 185511 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176093018 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 05-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	064a001	X	primer			05-MAR-2006 14:18	1.0						
002	064a002	X	ib			05-MAR-2006 14:45	1.0						
003	064a003	CCV	dsl_500			05-MAR-2006 15:13	1.0	1.0			3	1	
004	064a004	CCV	mo_500			05-MAR-2006 15:40	1.0	1.0	5		3	2	
005	064a005	CCV	bunk_1250			05-MAR-2006 16:07	1.0	1.0			3	3	
006	064a006	CCV	mo_500			05-MAR-2006 17:21	1.0	1.0	4		3	4	
007	064a007	ICAL	mo_50			05-MAR-2006 18:11	1.0	1.0				5	
008	064a008	ICAL	mo_250			05-MAR-2006 18:38	1.0	1.0				6	
009	064a009	ICAL	mo_500			05-MAR-2006 19:05	1.0	1.0				7	
010	064a010	ICAL	mo_1000			05-MAR-2006 19:32	1.0	1.0				8	
011	064a011	ICAL	mo_2500			05-MAR-2006 20:00	1.0	1.0				9	
012	064a012	ICAL	mo_5000			05-MAR-2006 20:27	1.0	1.0				10	
013	064a013	X	ib			05-MAR-2006 20:54	1.0						
014	064a014	X	ib			05-MAR-2006 21:21	1.0						
015	064a015	CCV	dsl_1000			05-MAR-2006 21:48	1.0					11	114
016	064a016	CCV	mo_500			05-MAR-2006 22:16	1.0					4	
017	064a017	CCV	bunk_1250			05-MAR-2006 22:43	1.0					3	
018	064a018	X	xccv			05-MAR-2006 23:10	1.0					11	
019	064a019	BLANK	QC329822 S	110900	Water	05-MAR-2006 23:38	1.0						
020	064a020	BLANK	QC329951 S	110935	Soil	06-MAR-2006 00:05	1.0						
021	064a021	BLANK	QC330003 S	110946	Soil	06-MAR-2006 00:32	1.0						
022	064a022	LCS	QC329823 S	110900	Water	06-MAR-2006 00:59	1.0						
023	064a023	LCS	QC329952 S	110935	Soil	06-MAR-2006 01:27	1.0						
024	064a024	LCS	QC330004 S	110946	Soil	06-MAR-2006 01:55	1.0						
025	064a025	MS	QC329824	110900	Water	06-MAR-2006 02:22	1.0						
026	064a026	MSD	QC329825	110900	Water	06-MAR-2006 02:50	1.0						
027	064a027	MS	QC330005 S	110946	Soil	06-MAR-2006 03:17	2.0						
028	064a028	MSD	QC330006 S	110946	Soil	06-MAR-2006 03:44	2.0						
029	064a029	X	ib			06-MAR-2006 04:11	1.0						
030	064a030	CCV	dsl_250			06-MAR-2006 04:39	1.0					12	
031	064a031	CCV	mo_500			06-MAR-2006 05:06	1.0					4	

Stds used: 1=S2662 2=S2741 3=S2401 4=S2843 5=S2118 6=S2119 7=S2120 8=S2121 9=S2122 10=S2117 11=S2647 12=S2755

SEQUENCE SUMMARY FOR 185511 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176093018 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 05-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	064a032	CCV	bunk_1250			06-MAR-2006 05:33	1.0					3	
033	064a033	X	xccv			06-MAR-2006 06:00	1.0					12	
034	064a034	SAMPLE	185049-005	110845	Water	06-MAR-2006 06:28	1.0						
035	064a035	SAMPLE	185057-001	110845	Water	06-MAR-2006 06:55	1.0						
036	064a036	SAMPLE	185021-004	110845	Water	06-MAR-2006 07:33	1.0						
037	064a037	SAMPLE	185096-003	110851	Water	06-MAR-2006 08:01	1.0						
038	064a038	?SAMPLE	185095-003	110851		06-MAR-2006 08:28	1.0						
039	064a039	MSS	185082-015 S	110946	Soil	06-MAR-2006 08:56	2.0	0.1008	5		3		
040	064a040	?MS	QC329951	110935		06-MAR-2006 09:23	2.0						
041	064a041	?MSD	QC329952	110935		06-MAR-2006 09:50	2.0						
042	064a042	MS	QC329764	110886	Soil	06-MAR-2006 10:18	5.0						
043	064a043	?MSD	QC329764	110886		06-MAR-2006 10:45	5.0						
044	064a044	X	ib			06-MAR-2006 11:12	1.0						
045	064a045	X	ib			06-MAR-2006 11:40	1.0						
046	064a046	CCV	dsl_500			06-MAR-2006 12:07	1.0					2	115
047	064a047	CCV	mo_500			06-MAR-2006 12:35	1.0					4	
048	064a048	CCV	bunk_1250			06-MAR-2006 13:02	1.0					3	
049	064a049	X	xccv			06-MAR-2006 13:29	1.0					2	

Stds used: 1=S2662 2=S2741 3=S2401 4=S2843 5=S2118 6=S2119 7=S2120 8=S2121 9=S2122 10=S2117 11=S2647 12=S2755

SEQUENCE SUMMARY FOR 185511 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176098515 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 09-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	068a001	X	ib			09-MAR-2006 09:55	1.0					
002	068a002	?SAMPLE	185382-001			09-MAR-2006 10:22	10.0					
003	068a003	?SAMPLE	185382-002			09-MAR-2006 10:49	10.0					
004	068a004	?SAMPLE	185382-003			09-MAR-2006 11:17	10.0					
005	068a005	?SAMPLE	185382-004			09-MAR-2006 11:44	10.0					
006	068a006	?SAMPLE	185382-005			09-MAR-2006 12:12	10.0					
007	068a007	X	ib			09-MAR-2006 12:39	1.0					
008	068a008	X	mb fingerpri			09-MAR-2006 13:06	1.0					
009	068a009	CCV	jet_250			09-MAR-2006 13:34	1.0				1	
010	068a010	X	ib			09-MAR-2006 16:37	1.0					
011	068a011	CCV	dsl_500			09-MAR-2006 17:05	1.0	1.0		3	2	
012	068a012	CCV	mo_500			09-MAR-2006 17:32	1.0	1.0	2	3	3	
013	068a013	CCV	bunk_1250			09-MAR-2006 18:23	1.0	1.0		3	4	
014	068a014	X	ib			09-MAR-2006 19:15	1.0					
015	068a015	ICAL	hex_5			09-MAR-2006 19:42	1.0	1.0			5	116
016	068a016	ICAL	hex_10			09-MAR-2006 20:09	1.0	1.0			6	
017	068a017	ICAL	hex_25			09-MAR-2006 20:37	1.0	1.0			7	
018	068a018	ICAL	hex_50			09-MAR-2006 21:04	1.0	1.0			8	
019	068a019	ICAL	hex_75			09-MAR-2006 21:31	1.0	1.0			9	
020	068a020	X	ib			09-MAR-2006 21:59	1.0					
021	068a021	CCV	dsl_1000			09-MAR-2006 22:26	1.0	1.0		3	10	
022	068a022	CCV	mo_500			09-MAR-2006 22:53	1.0	1.0	2	3	3	
023	068a023	X	dsl_1000			09-MAR-2006 23:20	1.0				10	
024	068a024	CCV	bunk_1250			09-MAR-2006 23:48	1.0	1.0		3	4	
025	068a025	SAMPLE	185247-003 S	111034	Water	10-MAR-2006 00:15	1.0	0.005		3		
026	068a026	SAMPLE	185271-008 S	111034	Water	10-MAR-2006 00:42	1.0	0.005		3		
027	068a027	SAMPLE	185334-001 S	111055	Water	10-MAR-2006 01:10	1.0	0.005		3		
028	068a028	SAMPLE	185271-009 S	111034	Water	10-MAR-2006 01:37	1.0	0.005		3		
029	068a029	SAMPLE	185271-010 S	111034	Water	10-MAR-2006 02:04	1.0	0.005		3		
030	068a030	SAMPLE	185350-001 S	111055	Water	10-MAR-2006 02:31	1.0	0.005		3		
031	068a031	SAMPLE	185333-014 S	111062	Soil	10-MAR-2006 02:58	1.0	0.1000		3		

Stds used: 1=S2432 2=S2871 3=S2741 4=S2872 5=S2694 6=S2695 7=S2696 8=S2697 9=S2698 10=S2885 11=S2755 12=S2843

SEQUENCE SUMMARY FOR 185511 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176098515 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 09-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used >LR
032	068a032	SAMPLE	185247-005 S	111034	Water	10-MAR-2006 03:25	1.0	0.005	2	1	3	17:BUNKC:=50672.4
033	068a033	MS	QC330414 S	111050	Soil	10-MAR-2006 03:52	1.0	0.1009		1	3	3:BUNKC:=7224.34
034	068a034	MSD	QC330415 S	111050	Soil	10-MAR-2006 04:20	1.0	0.1001			3	1:BUNKC:=5003.11
035	068a035	CCV	dsl_250			10-MAR-2006 04:47	1.0	1.0			3	11
036	068a036	CCV	mo_500			10-MAR-2006 05:14	1.0	1.0	2		3	3
037	068a037	X	xccv			10-MAR-2006 05:42	1.0					11
038	068a038	CCV	bunk_1250			10-MAR-2006 06:09	1.0	1.0			3	4
039	068a039	SAMPLE	185333-022 S	111062	Soil	10-MAR-2006 06:36	1.0	0.1006			3	
040	068a040	SAMPLE	185333-023 S	111062	Soil	10-MAR-2006 07:03	1.0	0.1004			3	
041	068a041	SAMPLE	185211-001	111002	Water	10-MAR-2006 07:30	1.0	0.005			3	
042	068a042	SAMPLE	185211-002	111002	Water	10-MAR-2006 07:58	1.0	0.005			3	
043	068a043	SAMPLE	185229-030	111002	Water	10-MAR-2006 08:24	1.0	0.005		1	3	
044	068a044	SAMPLE	185229-031	111002	Water	10-MAR-2006 08:52	1.0	0.005			3	
045	068a045	SAMPLE	185229-033	111002	Water	10-MAR-2006 09:19	1.0	0.005			3	
046	068a046	SAMPLE	185279-001	111034	Water	10-MAR-2006 09:46	1.0	0.005	1		3	1:HXCS=104.620
047	068a047	SAMPLE	185339-001	111055	Water	10-MAR-2006 10:13	1.0	0.005			3	
048	068a048	SAMPLE	185339-002	111055	Water	10-MAR-2006 10:40	5.0	0.005			3	
049	068a049	CCV	dsl_500			10-MAR-2006 11:08	1.0	1.0			3	2
050	068a050	CCV	mo_500			10-MAR-2006 11:36	1.0	1.0	2		3	12
051	068a051	X	dsl_500			10-MAR-2006 12:03	1.0					2
052	068a052	CCV	bunk_1250			10-MAR-2006 12:30	1.0	1.0			3	4

Stds used: 1=S2432 2=S2871 3=S2741 4=S2872 5=S2694 6=S2695 7=S2696 8=S2697 9=S2698 10=S2885 11=S2755 12=S2843

SEQUENCE SUMMARY FOR 185511 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166114247 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	079b001	X	primer			20-MAR-2006 08:07	1.0					
002	079b002	X	ib			20-MAR-2006 08:34	1.0					
003	079b003	CCV	dsl_500			20-MAR-2006 09:02	1.0	1.0		3	1	
004	079b004	CCV	mo_500			20-MAR-2006 11:26	1.0				2	
005	079b005	CCV	dsl_500			20-MAR-2006 11:53	1.0				1	
006	079b006	X	ib			20-MAR-2006 14:24	1.0					
007	079b007	ICAL	hex_5			20-MAR-2006 14:52	1.0	1.0			3	
008	079b008	ICAL	hex_10			20-MAR-2006 15:20	1.0	1.0			4	
009	079b009	ICAL	hex_25			20-MAR-2006 15:49	1.0	1.0			5	
010	079b010	ICAL	hex_50			20-MAR-2006 16:17	1.0	1.0			6	
011	079b011	ICAL	hex_75			20-MAR-2006 16:45	1.0	1.0			7	
012	079b012	CCV	dsl_1000			20-MAR-2006 17:14	1.0	1.0		3	8	
013	079b013	CCV	mo_500			20-MAR-2006 17:42	1.0	1.0		3	2	
014	079b014	SAMPLE	185385-001 S	111346	Water	20-MAR-2006 18:23	1.0	0.005		3		
015	079b015	SAMPLE	185385-002 S	111346	Water	20-MAR-2006 18:52	1.0	0.005		3		118
016	079b016	SAMPLE	185385-003 S	111346	Water	20-MAR-2006 19:20	1.0	0.005		3		
017	079b017	SAMPLE	185385-004 S	111346	Water	20-MAR-2006 19:48	1.0	0.005		3		
018	079b018	SAMPLE	185385-005 S	111346	Water	20-MAR-2006 20:16	1.0	0.005		3		
019	079b019	X	ib			20-MAR-2006 20:45	1.0					
020	079b020	SAMPLE	185385-006 S	111346	Water	20-MAR-2006 21:13	1.0	0.005		3		
021	079b021	SAMPLE	185385-007 S	111346	Water	20-MAR-2006 21:41	1.0	0.005		3		
022	079b022	SAMPLE	185385-008 S	111346	Water	20-MAR-2006 22:09	1.0	0.005		3		
023	079b023	SAMPLE	185385-009 S	111346	Water	20-MAR-2006 22:37	1.0	0.005		3		
024	079b024	SAMPLE	185385-011 S	111346	Water	20-MAR-2006 23:05	1.0	0.005		3		
025	079b025	X	ib			20-MAR-2006 23:33	1.0					
026	079b026	X	ib			21-MAR-2006 00:01	1.0					
027	079b027	CCV	dsl_250			21-MAR-2006 00:29	1.0	1.0		3	9	
028	079b028	CCV	mo_500			21-MAR-2006 00:57	1.0	1.0	3	3	2	
029	079b029	X	ccv			21-MAR-2006 01:25	1.0				2	
030	079b030	X	ccv			21-MAR-2006 01:52	1.0				9	
031	079b031	SAMPLE	185414-001 S	111437	Water	21-MAR-2006 02:20	1.0	0.005		3		

Stds used: 1=S2871 2=S2843 3=S2694 4=S2695 5=S2696 6=S2697 7=S2698 8=S2885 9=S2755

SEQUENCE SUMMARY FOR 185511 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166114247 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	079b032	SAMPLE	185525-004 S	111348	Water	21-MAR-2006 02:48	1.0	0.005		3		
033	079b033	SAMPLE	185525-001 S	111348	Water	21-MAR-2006 03:15	1.0	0.005		3		
034	079b034	SAMPLE	185525-005 S	111348	Water	21-MAR-2006 03:43	1.0	0.005		3		
035	079b035	SAMPLE	185525-008 S	111348	Water	21-MAR-2006 04:11	1.0	0.005		3		
036	079b036	SAMPLE	185525-011 S	111348	Water	21-MAR-2006 04:38	1.0	0.005		3		
037	079b037	SAMPLE	185525-007 S	111348	Water	21-MAR-2006 05:06	1.0	0.005		3		
038	079b038	SAMPLE	185525-010 S	111348	Water	21-MAR-2006 05:34	1.0	0.005		3		
039	079b039	SAMPLE	185525-012 S	111348	Water	21-MAR-2006 06:02	1.0	0.005		3		
040	079b040	X	ib			21-MAR-2006 06:30	1.0					
041	079b041	CCV	dsl_1000			21-MAR-2006 06:57	1.0	1.0	7	3	8	
042	079b042	CCV	mo_500			21-MAR-2006 07:25	1.0	1.0	4	3	2	
043	079b043	X	ccv			21-MAR-2006 07:53	1.0				2	
044	079b044	X	ccv			21-MAR-2006 08:20	1.0				8	

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Stds used: 1=S2871 2=S2843 3=S2694 4=S2695 5=S2696 6=S2697 7=S2698 8=S2885 9=S2755

SEQUENCE SUMMARY FOR 185511 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166115824 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 21-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	080b001	ICAL	dsl_10			21-MAR-2006 10:24	1.0					1	
002	080b002	X	ib			21-MAR-2006 11:50	1.0						
003	080b003	CCV	dsl_500			21-MAR-2006 12:18	1.0	1.0			3	2	
004	080b004	CCV	mo_500			21-MAR-2006 12:46	1.0	1.0	2		3	3	
005	080b005	X	ib			21-MAR-2006 14:24	1.0						
006	080b006	ICAL	mo_50			21-MAR-2006 14:52	1.0	1.0				4	
007	080b007	ICAL	mo_250			21-MAR-2006 15:20	1.0	1.0				5	
008	080b008	ICAL	mo_500			21-MAR-2006 15:49	1.0	1.0				6	
009	080b009	ICAL	mo_1000			21-MAR-2006 16:17	1.0	1.0				7	
010	080b010	ICAL	mo_2500			21-MAR-2006 16:46	1.0	1.0				8	
011	080b011	ICAL	mo_5000			21-MAR-2006 17:15	1.0	1.0				9	
012	080b012	X	ib			21-MAR-2006 17:52	1.0						
013	080b013	CCV	dsl_1000			21-MAR-2006 18:21	1.0	1.0			3	10	
014	080b014	X	mo_500			21-MAR-2006 18:49	1.0	1.0	3		3	3	
015	080b015	CCV	mo_500			21-MAR-2006 19:27	1.0	1.0	2		3	11	120
016	080b016	SAMPLE	185580-002	111477	Water	21-MAR-2006 21:34	1.0	0.005			3		
017	080b017	SAMPLE	185580-010	111477	Water	21-MAR-2006 22:02	1.0	0.005			3		
018	080b018	SAMPLE	185457-011 S	111478	Water	21-MAR-2006 22:30	1.0	0.005			3		
019	080b019	SAMPLE	185457-012 S	111478	Water	21-MAR-2006 22:58	1.0	0.005			3		
020	080b020	SAMPLE	185457-013 S	111478	Water	21-MAR-2006 23:26	1.0	0.005			3		
021	080b021	SAMPLE	185457-014 S	111478	Water	21-MAR-2006 23:54	1.0	0.005			3		
022	080b022	MSS	185457-016 S	111478	Water	22-MAR-2006 00:22	1.0	0.005	8		3		
023	080b023	SAMPLE	185457-017 S	111478	Water	22-MAR-2006 00:50	1.0	0.005			3		
024	080b024	SAMPLE	185457-019 S	111478	Water	22-MAR-2006 01:18	1.0	0.005			3		
025	080b025	MSS	185457-020 S	111478	Water	22-MAR-2006 01:46	1.0	0.005	8		3		
026	080b026	X	ib			22-MAR-2006 02:14	1.0						
027	080b027	CCV	dsl_250			22-MAR-2006 02:41	1.0	1.0			3	12	
028	080b028	CCV	mo_500			22-MAR-2006 03:09	1.0	1.0	2		3	13	
029	080b029	X	ccv			22-MAR-2006 03:37	1.0					12	
030	080b030	X	ccv			22-MAR-2006 04:05	1.0					13	

Stds used: 1=S2964 2=S2871 3=S2843 4=S2118 5=S2119 6=S2120 7=S2121 8=S2122 9=S2117 10=S2885 11=S2972 12=S2755 13=S2971

SEQUENCE SUMMARY FOR 185511 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166117087 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	081b001	X	primer			22-MAR-2006 07:27	1.0						
002	081b002	X	ib			22-MAR-2006 07:55	1.0						
003	081b003	CCV	dsl_500			22-MAR-2006 08:27	1.0	1.0	6		3	1	
004	081b004	CCV	mo_500			22-MAR-2006 08:55	1.0	1.0	2		3	2	
005	081b005	X	ib			22-MAR-2006 12:12	1.0						
006	081b006	ICAL	dsl_10			22-MAR-2006 12:39	1.0	1.0				3	
007	081b007	ICAL	dsl_100			22-MAR-2006 13:07	1.0	1.0				4	
008	081b008	ICAL	dsl_250			22-MAR-2006 13:34	1.0	1.0				5	
009	081b009	ICAL	dsl_500			22-MAR-2006 14:02	1.0	1.0				6	
010	081b010	ICAL	dsl_1000			22-MAR-2006 14:30	1.0	1.0				7	
011	081b011	ICAL	dsl_2500			22-MAR-2006 14:57	1.0	1.0				8	
012	081b012	ICAL	dsl_5000			22-MAR-2006 15:25	1.0	1.0				9	
013	081b013	X	ib			22-MAR-2006 15:53	1.0						
014	081b014	ICV	dsl_500			22-MAR-2006 16:21	1.0	1.0			3	10	
015	081b015	X	ib			22-MAR-2006 16:49	1.0						
016	081b016	CCV	dsl_500			22-MAR-2006 17:17	1.0	1.0			3	1	
017	081b017	CCV	mo_500			22-MAR-2006 17:45	1.0	1.0	2		3	2	
018	081b018	CCV	ker_250			22-MAR-2006 18:43	1.0	1.0			3	11	
019	081b019	LCS	QC332247 S	111483	Soil	22-MAR-2006 19:18	1.0	0.09921			3		
020	081b020	BLANK	QC332246 S	111483	Soil	22-MAR-2006 19:45	1.0	0.1007	7		3		
021	081b021	MSS	185620-003 S	111483	Soil	22-MAR-2006 20:13	1.0	0.1001	9		3		
022	081b022	MS	QC332248 S	111483	Soil	22-MAR-2006 20:41	1.0	0.1006			3		
023	081b023	MSD	QC332249 S	111483	Soil	22-MAR-2006 21:09	1.0	0.1004			3		
024	081b024	X	ib			22-MAR-2006 21:37	1.0						
025	081b025	SAMPLE	185463-003 S	111513	Water	22-MAR-2006 22:05	1.0	0.005			3		
026	081b026	SAMPLE	185463-004 S	111513	Water	22-MAR-2006 22:33	1.0	0.005			3		
027	081b027	SAMPLE	185639-002	111483	Soil	22-MAR-2006 23:01	1.0	0.1002			3		
028	081b028	SAMPLE	185640-001	111483	Soil	22-MAR-2006 23:29	3.0	0.09974	3		3		19:BUNKC:=35667.6
029	081b029	SAMPLE	185640-002	111483	Soil	22-MAR-2006 23:57	20.0	0.2001	2		3		12:BUNKC:=30917.1
030	081b030	X	ib			23-MAR-2006 00:24	1.0						
031	081b031	CCV	dsl_1000			23-MAR-2006 00:52	1.0	1.0			3	12	

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Stds used: 1=S2871 2=S2971 3=S2961 4=S2938 5=S2939 6=S2940 7=S2941 8=S2942 9=S2936 10=S2708 11=S2806 12=S2885

SEQUENCE SUMMARY FOR 185511 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166117087 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	081b032	CCV	mo_500			23-MAR-2006 01:20	1.0	1.0	2		3	2	
033	081b033	X	ccv			23-MAR-2006 01:48	1.0					12	
034	081b034	CCV	ker_250			23-MAR-2006 02:16	1.0	1.0			3	11	

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Stds used: 1=S2871 2=S2971 3=S2961 4=S2938 5=S2939 6=S2940 7=S2941 8=S2942 9=S2936 10=S2708 11=S2806 12=S2885

SEQUENCE SUMMARY FOR 185511 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166118528 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 23-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	082b001	X	primer			23-MAR-2006 07:28	1.0						
002	082b002	X	ib			23-MAR-2006 07:56	1.0						
003	082b003	CCV	dsl_500			23-MAR-2006 08:23	1.0	1.0	1		3	1	
004	082b004	CCV	mo_500			23-MAR-2006 08:51	1.0	1.0	2		3	2	
005	082b005	CCV	ker_250			23-MAR-2006 10:42	1.0	1.0			3	3	
006	082b006	BS	QC332370 S	111513	Water	23-MAR-2006 11:12	1.0	0.005	1		3		
007	082b007	BSD	QC332371 S	111513	Water	23-MAR-2006 11:40	1.0	0.005	1		3		
008	082b008	SAMPLE	185640-001	111483	Soil	23-MAR-2006 12:08	20.0	0.09974			3		1:BUNKC:=6756.17
009	082b009	SAMPLE	185640-002	111483	Soil	23-MAR-2006 12:35	100.0	0.2001			3		1:BUNKC:=6888.39
010	082b010	X	ib			23-MAR-2006 13:03	1.0						
011	082b011	CCV	dsl_1000			23-MAR-2006 13:31	1.0	1.0			3	4	
012	082b012	CCV	mo_500			23-MAR-2006 13:58	1.0	1.0	2		3	2	
013	082b013	CCV	ker_250			23-MAR-2006 14:26	1.0	1.0			3	3	
014	082b014	MS	QC331677 S	111348	Water	23-MAR-2006 15:35	1.0	0.005	1		3		
015	082b015	MSD	QC331678 S	111348	Water	23-MAR-2006 16:03	1.0	0.005	1		3		
016	082b016	MS	QC331679 S	111348	Water	23-MAR-2006 16:30	1.0	0.005	1		3		
017	082b017	MSD	QC331680 S	111348	Water	23-MAR-2006 16:59	1.0	0.005	1		3		
018	082b018	MS	QC331681 S	111348	Water	23-MAR-2006 17:26	1.0	0.005	1		3		
019	082b019	MSD	QC331682 S	111348	Water	23-MAR-2006 17:54	1.0	0.005	1		3		
020	082b020	X	ib			23-MAR-2006 18:22	1.0						
021	082b021	CCV	jet_250			23-MAR-2006 18:49	1.0	1.0			3	5	
022	082b022	SAMPLE	185632-011	111566	Water	23-MAR-2006 19:17	1.0	0.005	1		3		5:BUNKC:=9705.38
023	082b023	SAMPLE	185632-010	111566	Water	23-MAR-2006 19:45	1.0	0.005		1	3		
024	082b024	SAMPLE	185632-009	111566	Water	23-MAR-2006 20:13	1.0	0.005		1	3		1:BUNKC:=5386.97
025	082b025	X	ib			23-MAR-2006 20:41	1.0						
026	082b026	CCV	dsl_250			23-MAR-2006 21:09	1.0	1.0	1		3	6	
027	082b027	CCV	mo_500			23-MAR-2006 21:36	1.0	1.0	2		3	2	
028	082b028	X	ccv			23-MAR-2006 22:04	1.0					6	
029	082b029	X	ccv			23-MAR-2006 22:32	1.0					2	
030	082b030	CCV	jet_250			23-MAR-2006 23:00	1.0	1.0			3	5	
031	082b031	BS	QC332567 S	111566	Water	23-MAR-2006 23:28	1.0	0.005		1	3		

Stds used: 1=S2871 2=S2971 3=S2806 4=S2885 5=S2432 6=S2755

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SEQUENCE SUMMARY FOR 185511 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166118528 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 23-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	082b032	BSD	QC332568 S	111566	Water	23-MAR-2006 23:55	1.0	0.005		1	3		
033	082b033	BLANK	QC332566 S	111566	Water	24-MAR-2006 00:23	1.0	0.005			3		
034	082b034	SAMPLE	185632-009 S	111566	Water	24-MAR-2006 00:51	1.0	0.005			3	1:JP8:10=3894.45	
035	082b035	SAMPLE	185632-010 S	111566	Water	24-MAR-2006 01:19	1.0	0.005		1	3		
036	082b036	SAMPLE	185632-011 S	111566	Water	24-MAR-2006 01:47	1.0	0.005	1		3	5:BUNKC:=8571.20	
037	082b037	SAMPLE	185600-007 S	111427	Soil	24-MAR-2006 02:15	1.0	0.09913			3		
038	082b038	SAMPLE	185600-005 S	111434	Soil	24-MAR-2006 02:43	1.0	0.1001			3		
039	082b039	SAMPLE	185600-003 S	111434	Soil	24-MAR-2006 03:11	1.0	0.1003			3		
040	082b040	SAMPLE	185600-001 S	111427	Soil	24-MAR-2006 03:39	1.0	0.1006			3		
041	082b041	X	ib			24-MAR-2006 04:07	1.0						
042	082b042	CCV	dsl_500			24-MAR-2006 04:35	1.0	1.0			3	1	
043	082b043	CCV	mo_500			24-MAR-2006 05:03	1.0	1.0	2		3	2	
044	082b044	X	ccv			24-MAR-2006 05:30	1.0					1	
045	082b045	X	ccv			24-MAR-2006 05:58	1.0					2	
046	082b046	CCV	jet_250			24-MAR-2006 06:26	1.0	1.0			3	5	

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Stds used: 1=S2871 2=S2971 3=S2806 4=S2885 5=S2432 6=S2755

SEQUENCE SUMMARY FOR 185511 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176118906 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 23-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	082a001	X	ib			23-MAR-2006 13:46	1.0					
002	082a002	CCV	dsl_500			23-MAR-2006 14:13	1.0	1.0	6	3	1	
004	082a004	X	ib			23-MAR-2006 14:50	1.0					
005	082a005	X	ccv			23-MAR-2006 15:57	1.0	1.0		3	2	
006	082a006	CCV	mo_500			23-MAR-2006 16:27	1.0	1.0		3	3	
007	082a007	CCV	dsl_1000			23-MAR-2006 16:57	1.0	1.0		3	2	
008	082a008	X	S	111566	Water	23-MAR-2006 17:38	1.0					
009	082a009	X	S	111566	Water	23-MAR-2006 18:06	1.0					
010	082a010	X	S	111566	Water	23-MAR-2006 18:33	1.0					
011	082a011	X	S	111566	Water	23-MAR-2006 19:00	1.0					
012	082a012	X	S	111566	Water	23-MAR-2006 19:28	1.0					
013	082a013	X	ib			23-MAR-2006 19:55	1.0					
014	082a014	SAMPLE	185511-006 S	111566	Water	23-MAR-2006 20:22	1.0	0.005		3		
015	082a015	SAMPLE	185511-007 S	111566	Water	23-MAR-2006 20:49	1.0	0.005		3		
016	082a016	SAMPLE	185511-008 S	111566	Water	23-MAR-2006 21:17	1.0	0.005		3		125
017	082a017	SAMPLE	185511-009 S	111566	Water	23-MAR-2006 21:44	1.0	0.005		3		
018	082a018	SAMPLE	185511-010 S	111566	Water	23-MAR-2006 22:11	1.0	0.005		3		
019	082a019	X	ib			23-MAR-2006 22:39	1.0					
020	082a020	CCV	mo_500			23-MAR-2006 23:07	1.0	1.0		3	3	
021	082a021	CCV	dsl_250			23-MAR-2006 23:34	1.0	1.0		3	4	
022	082a022	X	ccv			24-MAR-2006 00:01	1.0				3	
023	082a023	X	ccv			24-MAR-2006 00:28	1.0				4	
024	082a024	SAMPLE	185511-011 S	111566	Water	24-MAR-2006 00:56	1.0	0.005		3		
025	082a025	SAMPLE	185511-012 S	111566	Water	24-MAR-2006 01:23	1.0	0.005		3		
026	082a026	SAMPLE	185433-005 S	111193	Soil	24-MAR-2006 01:50	1.0	0.1004		3		
027	082a027	SAMPLE	185433-003 S	111193	Soil	24-MAR-2006 02:17	1.0	0.09938		3		
028	082a028	SAMPLE	185433-001 S	111193	Soil	24-MAR-2006 02:45	1.0	0.1001		3		
029	082a029	X	185613-004	111434	Soil	24-MAR-2006 03:12	5.0					
030	082a030	CCV	mo_500			24-MAR-2006 03:39	1.0	1.0		3	3	
031	082a031	CCV	dsl_500			24-MAR-2006 04:06	1.0	1.0		3	1	
032	082a032	X	ccv			24-MAR-2006 04:34	1.0				3	

Stds used: 1=S2871 2=S2885 3=S2971 4=S2755

SEQUENCE SUMMARY FOR 185511 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176118906 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 23-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
033	082a033	X	ccv			24-MAR-2006 05:01	1.0			3	
034	082a034	SAMPLE	185511-001 S	111566	Water	24-MAR-2006 05:28	1.0				
035	082a035	SAMPLE	185511-002 S	111566	Water	24-MAR-2006 05:55	1.0				
036	082a036	SAMPLE	185511-003 S	111566	Water	24-MAR-2006 06:23	1.0				
037	082a037	SAMPLE	185511-004 S	111566	Water	24-MAR-2006 06:50	1.0				
038	082a038	SAMPLE	185511-005 S	111566	Water	24-MAR-2006 07:17	1.0				

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Stds used: 1=S2871 2=S2885 3=S2971 4=S2755

SEQUENCE SUMMARY FOR 185511 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116119976 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 24-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	083a001	X	primer			24-MAR-2006 07:36	1.0						
002	083a002	X	ib			24-MAR-2006 08:04	1.0						
003	083a003	CCV	mo_500			24-MAR-2006 08:32	1.0	1.0			3	1	
004	083a004	CCV	dsl_500			24-MAR-2006 09:00	1.0	1.0			3	2	
005	083a005	SAMPLE	185613-004	111434	Soil	24-MAR-2006 09:44	5.0	0.09944			3		
006	083a006	CCV	mo_500			24-MAR-2006 10:21	1.0	1.0			3	1	
007	083a007	CCV	dsl_1000			24-MAR-2006 10:50	1.0	1.0			3	3	
008	083a008	X	tank_check 3			24-MAR-2006 13:35	1.0						
009	083a009	SAMPLE	185511-001 S	111566	Water	24-MAR-2006 14:02	1.0	0.005			3		
010	083a010	SAMPLE	185511-002 S	111566	Water	24-MAR-2006 14:30	1.0	0.005			3		
011	083a011	SAMPLE	185511-003 S	111566	Water	24-MAR-2006 14:58	1.0	0.005			3		
012	083a012	SAMPLE	185511-004 S	111566	Water	24-MAR-2006 15:26	1.0	0.005			3		
013	083a013	SAMPLE	185511-005 S	111566	Water	24-MAR-2006 15:54	1.0	0.005			3		
014	083a014	X	tank_check 3			24-MAR-2006 16:22	1.0						
015	083a015	CCV	mo_500			24-MAR-2006 16:50	1.0					1	
016	083a016	CCV	dsl_1000			24-MAR-2006 17:18	1.0					3	
017	083a017	X	ccv			24-MAR-2006 17:46	1.0					3	
018	083a018	X	ccv			24-MAR-2006 18:14	1.0					2	

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Stds used: 1=S2971 2=S2871 3=S2885

SEQUENCE SUMMARY FOR 185511 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176120025 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 24-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
001	083a001	X	Primer			24-MAR-2006 08:25	1.0				
002	083a002	X	ib			24-MAR-2006 08:53	1.0				
003	083a003	CCV	dsl_500			24-MAR-2006 09:42	1.0	1.0	3	1	
004	083a004	CCV	mo_500			24-MAR-2006 10:09	1.0	1.0	3	2	
005	083a005	BS	QC332567 S	111566	Water	24-MAR-2006 11:15	1.0	0.005	3		
006	083a006	BSD	QC332568 S	111566	Water	24-MAR-2006 11:43	1.0	0.005	3		
007	083a007	CCV	mo_500			24-MAR-2006 12:10	1.0	1.0	3	2	
008	083a008	CCV	dsl_1000			24-MAR-2006 12:38	1.0	1.0	3	3	
009	083a009	BS	QC332793 S	111619	Water	24-MAR-2006 16:15	1.0	0.005	3		
010	083a010	BSD	QC332794 S	111619	Water	24-MAR-2006 16:43	1.0	0.005	3		
011	083a011	X	tank check 3			24-MAR-2006 17:10	1.0				
012	083a012	BLANK	QC332792 S	111619	Water	24-MAR-2006 17:37	1.0	0.005	3		
013	083a013	SAMPLE	185511-025 S	111619	Water	24-MAR-2006 18:05	1.0	0.005	3		
014	083a014	SAMPLE	185511-024 S	111619	Water	24-MAR-2006 18:33	1.0	0.005	3		
015	083a015	SAMPLE	185511-023 S	111619	Water	24-MAR-2006 19:00	1.0	0.005	3		128
016	083a016	SAMPLE	185511-022 S	111619	Water	24-MAR-2006 19:27	1.0	0.005	3		
017	083a017	SAMPLE	185511-021 S	111619	Water	24-MAR-2006 19:55	1.0	0.005	3		
018	083a018	SAMPLE	185511-020 S	111619	Water	24-MAR-2006 20:22	1.0	0.005	3		
019	083a019	SAMPLE	185511-019 S	111619	Water	24-MAR-2006 20:49	1.0	0.005	3		
020	083a020	X	ib			24-MAR-2006 21:17	1.0				
021	083a021	CCV	mo_500			24-MAR-2006 21:44	1.0	1.0	3	2	
022	083a022	CCV	dsl_250			24-MAR-2006 22:11	1.0	1.0	3	4	
023	083a023	X	ccv			24-MAR-2006 22:39	1.0			2	
024	083a024	X	ccv			24-MAR-2006 23:06	1.0			4	
025	083a025	SAMPLE	185511-018 S	111619	Water	24-MAR-2006 23:33	1.0	0.005	3		
026	083a026	SAMPLE	185511-017 S	111619	Water	25-MAR-2006 00:00	1.0	0.005	3		
027	083a027	SAMPLE	185511-016 S	111619	Water	25-MAR-2006 00:28	1.0	0.005	3		
028	083a028	SAMPLE	185511-015 S	111619	Water	25-MAR-2006 00:55	1.0	0.005	3		
029	083a029	SAMPLE	185511-013 S	111619	Water	25-MAR-2006 01:22	1.0	0.005	3		
030	083a030	SAMPLE	185620-012 S	111483	Soil	25-MAR-2006 01:50	1.0	0.1001	3		
031	083a031	SAMPLE	185620-009 S	111483	Soil	25-MAR-2006 02:17	1.0	0.1007	3		

Stds used: 1=S2871 2=S2971 3=S2885 4=S2755

SEQUENCE SUMMARY FOR 185511 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176120025 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 24-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	083a032	SAMPLE	185620-006 S	111483	Soil	25-MAR-2006 02:44	1.0	0.1009			3		
033	083a033	SAMPLE	185620-008 S	111483	Soil	25-MAR-2006 03:12	10.0	0.201			3		
034	083a034	SAMPLE	185620-001 S	111483	Soil	25-MAR-2006 03:39	10.0	0.1006			3		
035	083a035	X	ib			25-MAR-2006 04:06	1.0						
036	083a036	CCV	mo_500			25-MAR-2006 04:33	1.0	1.0			3	2	
037	083a037	CCV	dsl_500			25-MAR-2006 05:01	1.0	1.0			3	1	
038	083a038	X	ccv			25-MAR-2006 05:28	1.0					1	
039	083a039	X	ccv			25-MAR-2006 05:55	1.0					4	
040	083a040	SAMPLE	185620-002 S	111483	Soil	25-MAR-2006 06:23	1.0	0.09927			3		
041	083a041	SAMPLE	185620-010 S	111483	Soil	25-MAR-2006 06:50	1.0	0.1002			3		
042	083a042	SAMPLE	185620-005 S	111483	Soil	25-MAR-2006 07:17	1.0	0.1000			3		
043	083a043	X	ib			25-MAR-2006 07:45	1.0						
044	083a044	SAMPLE	185620-007 S	111483	Soil	25-MAR-2006 08:12	1.0	0.1001			3		3:BUNKC:=6763.37
045	083a045	SAMPLE	185620-004 S	111483	Soil	25-MAR-2006 08:39	1.0	0.09974			3		3:BUNKC:=6248.23
046	083a046	SAMPLE	185620-011 S	111483	Soil	25-MAR-2006 09:07	5.0	0.09913			3		
047	083a047	X	ib			25-MAR-2006 09:35	1.0						
048	083a048	CCV	mo_500			25-MAR-2006 10:02	1.0	1.0			3	2	
049	083a049	CCV	dsl_1000			25-MAR-2006 10:29	1.0	1.0			3	3	
050	083a050	X	ccv			25-MAR-2006 10:57	1.0					2	
051	083a051	X	ccv			25-MAR-2006 11:24	1.0					3	

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Stds used: 1=S2871 2=S2971 3=S2885 4=S2755

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185511 TEHM Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	MO:2	HXCS	
185511-001	GC17A	03/24/06 05:28	1.0				
185511-001	GC11A	03/24/06 14:02	1.0	+	+	+	
185511-002	GC17A	03/24/06 05:55	1.0				
185511-002	GC11A	03/24/06 14:30	1.0	+	+	+	
185511-003	GC17A	03/24/06 06:23	1.0				
185511-003	GC11A	03/24/06 14:58	1.0	+	+	+	
185511-004	GC17A	03/24/06 06:50	1.0				
185511-004	GC11A	03/24/06 15:26	1.0	+	+	+	
185511-005	GC17A	03/24/06 07:17	1.0				
185511-005	GC11A	03/24/06 15:54	1.0	+	+	+	
185511-006	GC17A	03/23/06 20:22	1.0	+	+	+	
185511-007	GC17A	03/23/06 20:49	1.0	+	+	+	
185511-008	GC17A	03/23/06 21:17	1.0	+	+	+	
185511-009	GC17A	03/23/06 21:44	1.0	+	+	+	
185511-010	GC17A	03/23/06 22:11	1.0	+	+	+	
185511-011	GC17A	03/24/06 00:56	1.0	+	+	+	
185511-012	GC17A	03/24/06 01:23	1.0	+	+	+	
185511-013	GC17A	03/25/06 01:22	1.0	+	+	+	
185511-015	GC17A	03/25/06 00:55	1.0	+	+	+	
185511-016	GC17A	03/25/06 00:28	1.0	+	+	+	
185511-017	GC17A	03/25/06 00:00	1.0	+	+	+	
185511-018	GC17A	03/24/06 23:33	1.0	+	+	+	
185511-019	GC17A	03/24/06 20:49	1.0	+	+	+	
185511-020	GC17A	03/24/06 20:22	1.0	+	+	+	
185511-021	GC17A	03/24/06 19:55	1.0	+	+	+	
185511-022	GC17A	03/24/06 19:27	1.0	+	+	+	

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185511 TEHM Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	MO:2	HXCS	
185511-023	GC17A	03/24/06 19:00	1.0	+	+	+	
185511-024	GC17A	03/24/06 18:33	1.0	+	+	+	
185511-025	GC17A	03/24/06 18:05	1.0	+	+	+	
QC332566	GC15B	03/24/06 00:23	1.0	+	+	+	
QC332567	GC15B	03/23/06 23:28	1.0				
QC332567	GC17A	03/24/06 11:15	1.0	+		+	
QC332568	GC15B	03/23/06 23:55	1.0				
QC332568	GC17A	03/24/06 11:43	1.0	+		+	
QC332792	GC17A	03/24/06 17:37	1.0	+	+	+	
QC332793	GC17A	03/24/06 16:15	1.0	+		+	
QC332794	GC17A	03/24/06 16:43	1.0	+		+	

Curtis & Tompkins Laboratories **Sample Preparation Summary** **23-MAR-2006 12:37**

Batch Number : 111566
Date Extracted: 22-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : N/A
Bgroup : TEH
Units : mL
Clean-up :

Spike #1 ID : S2903E
Spike #2 ID : S2826C
Spike #3 ID :
SOP Version : TEH50LL_rv10

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185511-001		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185511-002		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185511-003		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185511-004		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185511-005		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185511-006		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185511-007		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185511-008		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185511-009		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185511-010		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185511-011		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185511-012		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185632-009		Burns & McDonnell	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH	3630C	
185632-010		Burns & McDonnell	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH	3630C	
185632-011		Burns & McDonnell	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH	3630C	
QC332566	BLANK		Water	500	mL	2.5	0.005000	1		.5	0		TEH	3630C	
QC332567	BS		Water	500	mL	2.5	0.005000	1		.5	.5		TEH	3630C	
QC332568	BSD		Water	500	mL	2.5	0.005000	1		.5	.5		TEH	3630C	

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Prep Chemist: [illegible] Reviewed By: [illegible] Date: 3/23/06

Relinquished By: Dan McG Received By: [illegible] Date: 3/24/06

Curtis & Tompkins, Ltd

TEH WATER PREP LOG

BK2279

LIMS Batch No: 111566
LIMS Analysis: TEH/M
Extracted by: JOM
Date Extracted: 22 Mar 06

Extraction Method:
☐ mod. EPA 3510 sep. funnel
☒ mod. EPA 3520 cont. L/L
☐ _____

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Cleanup Method (if needed):
☒ EPA 3630 Silica Gel
☐ Other _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185632-009 F	500	6	2.5	X	
10					
11					
185511-001 G				X	
02					
03					
04					
05					
06					
07					
08					
09 L					
10 I					
11 G					
12 T					
MB QC332566		NA			
BS 67					
BSD 68					
					DLM 3/23/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.5 mL of TEH_SURR was added to all samples	S2903E	JOM 3/22/06
0.5 mL of TEH_SP was added to all spikes	S2626C	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	JTB24063	
☒ Samples were continually extracted about 450 mL of CH_2Cl_2	EM46060	
Extraction Start Time:	1150	
Extraction End Time:	0700	DLM 3/23/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM45118532	
Concentrated to volumes as noted above	✓	

Curtis & Tompkins, Ltd.

Silica Gel Cleanup

EPA 3630c

Prep Chemist: MDM

Cleanup Date: 3/23/06

Benchbook # BK 2272

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Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
185511-001	111566	1.0	1.0	
-002				
-003				
-004				
-005				
-006				
-007				
-008				
-009				
-010				
-011				
-012				
185632-009				
-010				
-011				
MB QC332566				
BS 67				
BSD 68				
185433-001	111193			
-003				
-005				
185600-001	111427			
-003	111434			
-005				
-007	111427			
				MDM 3/23/06

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled [illegible] g columns	N/A	MDM 3/23/06
☑ Extracts were cleaned up using [illegible] g cartridges	SP7028	
Extracts were eluted with [illegible] mL CH_2Cl_2	EM460060	
Concentrated to volumes as noted above	✓	

MDM 3/23/06

Extraction Chemist / Date

Continued from page ___

Continued on page ___

3/23/06

Reviewed by / Date

Curtis & Tompkins Laboratories Sample Preparation Summary 24-MAR-2006 12:35

Batch Number : 111619
Date Extracted: 23-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : TEHM
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2903C
Spike #2 ID : S2826C
Spike #3 ID :
SOP Version :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185511-013		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	5	.5	0		TEHM	3630C	
185511-015		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185511-016		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185511-017		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185511-018		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185511-019		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185511-020		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185511-021		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185511-022		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185511-023		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185511-024		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185511-025		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
QC332792	BLANK		Water	500	mL	2.5	0.005000	1		.5	0		TEHM	3630C	
QC332793	BS		Water	500	mL	2.5	0.005000	1		.5	.5		TEHM	3630C	
QC332794	BSD		Water	500	mL	2.5	0.005000	1		.5	.5		TEHM	3630C	

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Prep Chemist: SFK for JSM Reviewed By: [illegible] Date: 3/24/06

Relinquished By: Dan McG Received By: [illegible] Date: 3/25/06

Curtis & Tompkins, Ltd

TEH WATER PREP LOG

BK2279

LIMS Batch No: 111619
LIMS Analysis: TEHM
Extracted by: JDM
Date Extracted: 23 Mar 06

Extraction Method:
☐ mod. EPA 3510 sep. funnel
☒ mod. EPA 3520 cont. L/L
☐ _____

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Cleanup Method (if needed):
☒ EPA 3630 Silica Gel
☐ Other _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185511-013 Y	500	5	2.5	X	
15 G		6			
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
MB QC332792		NA			
BS 93					
BSD 94					

BHD 3/24/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.5 mL of TEH_SURR was added to all samples	S2903C	JDM 3/23/06
0.5 mL of TEH_SP was added to all spikes	S2B26C	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	JTB B24063	
☒ Samples were continually extracted about 450 mL of CH_2Cl_2	EM46060	
Extraction Start Time:	1115	
Extraction End Time:	0725	DJM 3/24/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM45118532	
Concentrated to volumes as noted above	✓	

Extraction Chemist 3/23/06 Date

Contined from Page —
Continued on Page —

Reviewed by 3/24/06 Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: DLM
Cleanup Date: 3/24/06

Benchbook # **BK 2272**
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Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
185511-013	111619	1.0	1.0	
-015				
-016				
-017				
-018				
-019				
-020				
-021				
-022				
-023				
-024				
-025				
MB QC332792				
BS 3				
BSD 4				

DLM 3/24/06

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ____g columns	NA	DLM 3/24/06
☑ Extracts were cleaned up using 1.0 g cartridges	SP 7028	
Extracts were eluted with 4.0 mL CH_2Cl_2	EM46060	
Concentrated to volumes as noted above	✓	

Dan McGu 3/24/06

Continued from page —
Continued on page /

Shelley 3/24/06

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water
As of 04/29/06

Analyte	Units	GC11A	GC13B	GC15B	GC17A
JP-5 C10-C16	ug/L	17	16	7.9	5.4
Jet Fuel A C10-C16	ug/L	14	30	24	33
Diesel C10-C20	ug/L		16	13	19
Diesel C10-C22	ug/L	21	18	19	27
Diesel C10-C28	ug/L	18	11	22	37
Diesel C10-C24	ug/L	21	15	18	33
Diesel C12-C24	ug/L	20	13	20	33
Diesel C12-C32	ug/L	22	14	25	23
Diesel C12-C36	ug/L	13	17		
Diesel C12-C28	ug/L		31		
Diesel C12-C22	ug/L	19	17	20	25
Motor Oil C20-C36	ug/L	40	50	29	53
Motor Oil C28-C36	ug/L	42	55	33	76
Motor Oil C24-C36	ug/L	42	55	33	76
Motor Oil C22-C32	ug/L	36	51	21	50
Motor Oil C22-C36	ug/L	41	52	30	51
Hexacosane	ug/L	4.5	3.4	4.2	3.1

VOLATILE ORGANIC COMPOUNDS

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	937GW12	Batch#:	111322
Lab ID:	185511-003	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	111	80-120
1,2-Dichloroethane-d4	105	76-114
Toluene-d8	97	88-110
Bromofluorobenzene	97	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	937GW101	Batch#:	111364
Lab ID:	185511-004	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/16/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	4.2	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	0.8	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	113	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	107	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	937GW102	Batch#:	111322
Lab ID:	185511-005	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	0.8	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	8.4	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	8.0	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	110	80-120
1,2-Dichloroethane-d4	105	76-114
Toluene-d8	97	88-110
Bromofluorobenzene	95	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	937GW103	Batch#:	111322
Lab ID:	185511-006	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	114	80-120
1,2-Dichloroethane-d4	106	76-114
Toluene-d8	96	88-110
Bromofluorobenzene	97	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	937GW108	Batch#:	111322
Lab ID:	185511-007	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	117	80-120
1,2-Dichloroethane-d4	109	76-114
Toluene-d8	97	88-110
Bromofluorobenzene	99	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	937GW102RB101	Batch#:	111322
Lab ID:	185511-008	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	114	80-120
1,2-Dichloroethane-d4	105	76-114
Toluene-d8	96	88-110
Bromofluorobenzene	95	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	1065MW101	Batch#:	111322
Lab ID:	185511-009	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	117	80-120
1,2-Dichloroethane-d4	107	76-114
Toluene-d8	97	88-110
Bromofluorobenzene	95	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DW031306A	Batch#:	111322
Lab ID:	185511-012	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	7.0	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	0.7	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	117	80-120
1,2-Dichloroethane-d4	107	76-114
Toluene-d8	98	88-110
Bromofluorobenzene	94	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DW031306B	Batch#:	111322
Lab ID:	185511-013	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	3.1	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	119	80-120
1,2-Dichloroethane-d4	108	76-114
Toluene-d8	97	88-110
Bromofluorobenzene	95	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	TB0313063A	Batch#:	111368
Lab ID:	185511-014	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/16/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-120
1,2-Dichloroethane-d4	115 *	76-114
Toluene-d8	95	88-110
Bromofluorobenzene	96	86-115

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	937GW35	Batch#:	111322
Lab ID:	185511-015	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	2.0	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	0.5	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	119	80-120
1,2-Dichloroethane-d4	109	76-114
Toluene-d8	96	88-110
Bromofluorobenzene	95	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	937GW39	Batch#:	111322
Lab ID:	185511-016	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	122 *	80-120
1,2-Dichloroethane-d4	111	76-114
Toluene-d8	97	88-110
Bromofluorobenzene	94	86-115

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	937GW38	Batch#:	111364
Lab ID:	185511-017	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/16/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	0.7	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	109	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	108	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	937GW37	Batch#:	111322
Lab ID:	185511-018	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	125 *	80-120
1,2-Dichloroethane-d4	110	76-114
Toluene-d8	96	88-110
Bromofluorobenzene	92	86-115

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	937GW104	Batch#:	111322
Lab ID:	185511-019	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	125 *	80-120
1,2-Dichloroethane-d4	111	76-114
Toluene-d8	97	88-110
Bromofluorobenzene	94	86-115

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	979GW111R	Batch#:	111364
Lab ID:	185511-020	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/16/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	4.8	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	3.9	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	47	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	111	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	109	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

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Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	979GW117	Batch#:	111322
Lab ID:	185511-021	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	127 *	80-120
1,2-Dichloroethane-d4	115 *	76-114
Toluene-d8	97	88-110
Bromofluorobenzene	93	86-115

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

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Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	979GW115	Batch#:	111321
Lab ID:	185511-022	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	1.2	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	1.3	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	27	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	113	76-114
Toluene-d8	102	88-110
Bromofluorobenzene	109	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

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Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	937GW105	Batch#:	111321
Lab ID:	185511-023	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	3.9	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	2.4	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	112	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	109	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	937GW105RB106	Batch#:	111321
Lab ID:	185511-024	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	113	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	106	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	937GW106	Batch#:	111321
Lab ID:	185511-025	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	0.6	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	3.6	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	112	76-114
Toluene-d8	102	88-110
Bromofluorobenzene	107	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331548	Batch#:	111321
Matrix:	Water	Analyzed:	03/15/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	112	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	105	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331553	Batch#:	111322
Matrix:	Water	Analyzed:	03/15/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	100	76-114
Toluene-d8	97	88-110
Bromofluorobenzene	99	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331741	Batch#:	111364
Matrix:	Water	Analyzed:	03/16/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	110	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	104	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331755	Batch#:	111368
Matrix:	Water	Analyzed:	03/16/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-120
1,2-Dichloroethane-d4	114	76-114
Toluene-d8	96	88-110
Bromofluorobenzene	94	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331546	Batch#:	111321
Matrix:	Water	Analyzed:	03/15/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	26.46	106	65-135
Benzene	25.00	23.90	96	65-135
Trichloroethene	25.00	24.81	99	65-135
Toluene	25.00	23.82	95	65-135
Chlorobenzene	25.00	24.11	96	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-120
1,2-Dichloroethane-d4	105	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	101	86-115

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	111322
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Type: BS Lab ID: QC331551

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	28.51	114	65-135
Benzene	25.00	24.44	98	65-135
Trichloroethene	25.00	26.11	104	65-135
Toluene	25.00	25.70	103	65-135
Chlorobenzene	25.00	24.20	97	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-120
1,2-Dichloroethane-d4	99	76-114
Toluene-d8	102	88-110
Bromofluorobenzene	103	86-115

Type: BSD Lab ID: QC331552

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	30.19	121	65-135	6	35
Benzene	25.00	25.68	103	65-135	5	35
Trichloroethene	25.00	27.09	108	65-135	4	35
Toluene	25.00	26.37	105	65-135	3	35
Chlorobenzene	25.00	25.59	102	65-135	6	35

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-120
1,2-Dichloroethane-d4	98	76-114
Toluene-d8	103	88-110
Bromofluorobenzene	101	86-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	111364
Units:	ug/L	Analyzed:	03/16/06
Diln Fac:	1.000		

Type: BS Lab ID: QC331739

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	27.91	112	65-135
Benzene	25.00	25.32	101	65-135
Trichloroethene	25.00	26.56	106	65-135
Toluene	25.00	24.79	99	65-135
Chlorobenzene	25.00	24.62	98	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	109	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	100	86-115

Type: BSD Lab ID: QC331740

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	26.79	107	65-135	4	35
Benzene	25.00	24.64	99	65-135	3	35
Trichloroethene	25.00	25.52	102	65-135	4	35
Toluene	25.00	24.23	97	65-135	2	35
Chlorobenzene	25.00	24.14	97	65-135	2	35

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-120
1,2-Dichloroethane-d4	106	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	100	86-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	111368
Units:	ug/L	Analyzed:	03/16/06
Diln Fac:	1.000		

Type: BS Lab ID: QC331753

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	24.27	97	65-135
Benzene	25.00	23.13	93	65-135
Trichloroethene	25.00	26.27	105	65-135
Toluene	25.00	25.02	100	65-135
Chlorobenzene	25.00	24.30	97	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	87	80-120
1,2-Dichloroethane-d4	113	76-114
Toluene-d8	102	88-110
Bromofluorobenzene	97	86-115

Type: BSD Lab ID: QC331754

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	23.10	92	65-135	5	35
Benzene	25.00	22.43	90	65-135	3	35
Trichloroethene	25.00	25.51	102	65-135	3	35
Toluene	25.00	24.09	96	65-135	4	35
Chlorobenzene	25.00	23.47	94	65-135	3	35

Surrogate	%REC	Limits
Dibromofluoromethane	87	80-120
1,2-Dichloroethane-d4	111	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	97	86-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	185524-005	Batch#:	111321
Matrix:	Water	Sampled:	03/13/06
Units:	ug/L	Received:	03/14/06

Type: MS Analyzed: 03/15/06
Lab ID: QC331549

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.1010	25.00	30.85	123	65-135
Benzene	<0.1164	25.00	27.00	108	65-135
Trichloroethene	<0.1059	25.00	27.71	111	65-135
Toluene	0.1655	25.00	26.81	107	65-135
Chlorobenzene	<0.1633	25.00	25.17	101	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-120
1,2-Dichloroethane-d4	115 *	76-114
Toluene-d8	102	88-110
Bromofluorobenzene	102	86-115

Type: MSD Analyzed: 03/16/06
Lab ID: QC331550

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	29.08	116	65-135	6	35
Benzene	25.00	25.53	102	65-135	6	35
Trichloroethene	25.00	26.59	106	65-135	4	35
Toluene	25.00	25.66	102	65-135	4	35
Chlorobenzene	25.00	24.45	98	65-135	3	35

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	112	76-114
Toluene-d8	103	88-110
Bromofluorobenzene	100	86-115

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Data File: \\GCMSSERVER\DD\chem\MSVOA07.i\030806.b\GC805.D

Date : 08-MAR-2006 12:01

Client ID: bfb tune std

Instrument: MSVOA07.i

ICAL

Sample Info: BFB,S2327

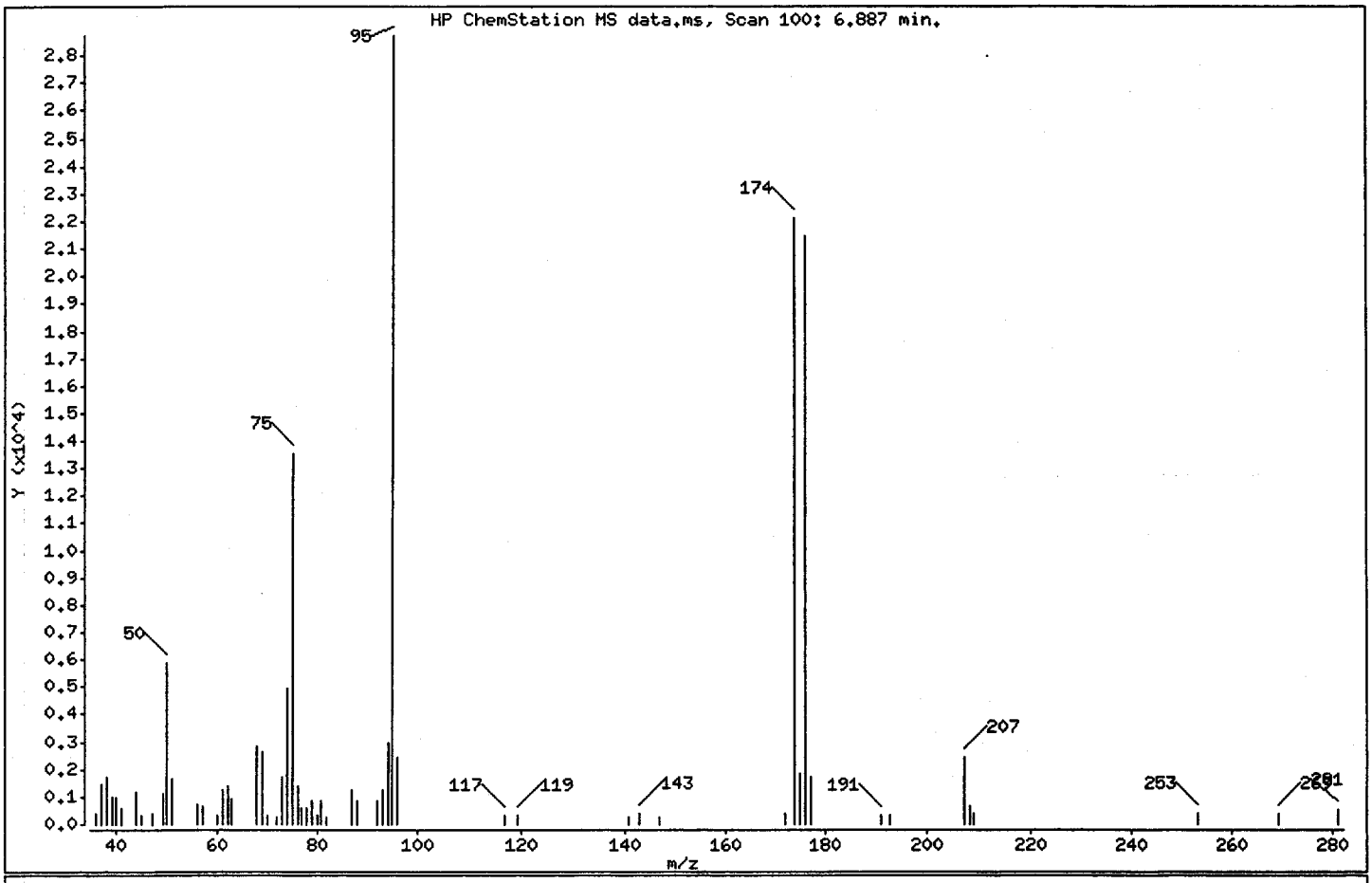
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.52
75	30.00 - 60.00% of mass 95	47.10
96	5.00 - 9.00% of mass 95	8.46
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	76.98
175	5.00 - 9.00% of mass 174	6.38 (8.29)
176	95.01 - 100.99% of mass 174	74.69 (97.03)
177	5.00 - 9.00% of mass 176	5.91 (7.91)

LW 3-8-06

03/04/06

Data File: \\GCMSSERVER\DD\chem\MSVOA07.i\031506.b\GCF04.D

Date : 15-MAR-2006 08:43

Client ID: bfb tune std

Instrument: MSVOA07.i

Sample Info: BFB,S2327

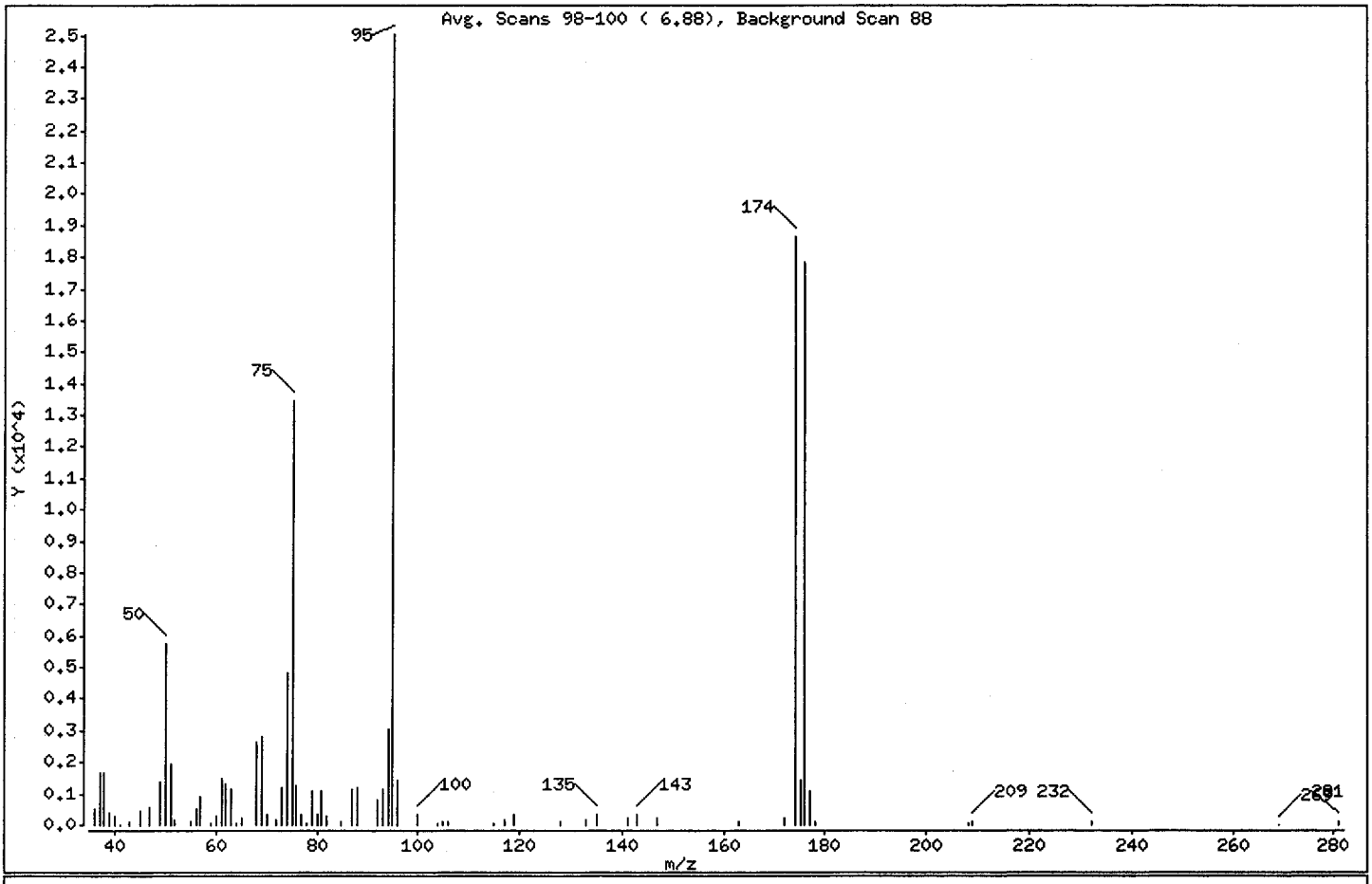
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.02
75	30.00 - 60.00% of mass 95	53.89
96	5.00 - 9.00% of mass 95	5.74
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	74.57
175	5.00 - 9.00% of mass 174	5.80 (7.78)
176	95.01 - 100.99% of mass 174	71.26 (95.56)
177	5.00 - 9.00% of mass 176	4.26 (5.98)

Q 3/16/06

LW 3-15-06

Data File: \\GCMSSERVER\DD\chem\MSVOA07.i\031606.b\GCG02.D

Date : 16-MAR-2006 08:42

Client ID: bfb tune std

Instrument: MSVOA07.i

Sample Info: BFB,S2327

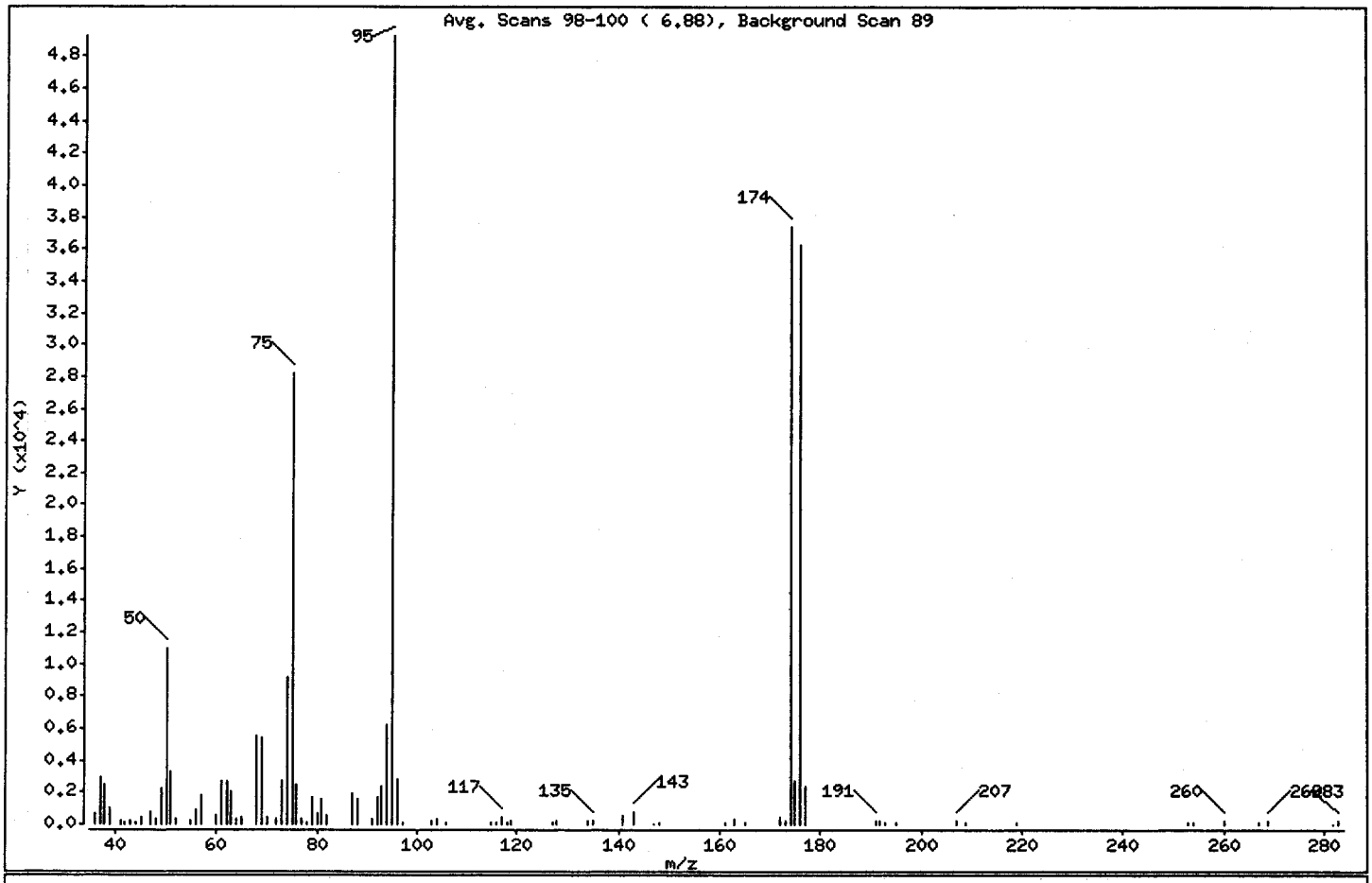
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.27
75	30.00 - 60.00% of mass 95	57.32
96	5.00 - 9.00% of mass 95	5.78
173	Less than 2.00% of mass 174	0.43 (0.57)
174	50.00 - 99.99% of mass 95	75.83
175	5.00 - 9.00% of mass 174	5.52 (7.28)
176	95.01 - 100.99% of mass 174	73.56 (97.00)
177	5.00 - 9.00% of mass 176	4.94 (6.71)

LW 3-16-06

03/17/06

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\020106.b\HB107.D

Date : 01-FEB-2006 14:11

Client ID: bfb tune std

Sample Info: BFB,S2327

Volume Injected (uL): 1.0

Column phase:

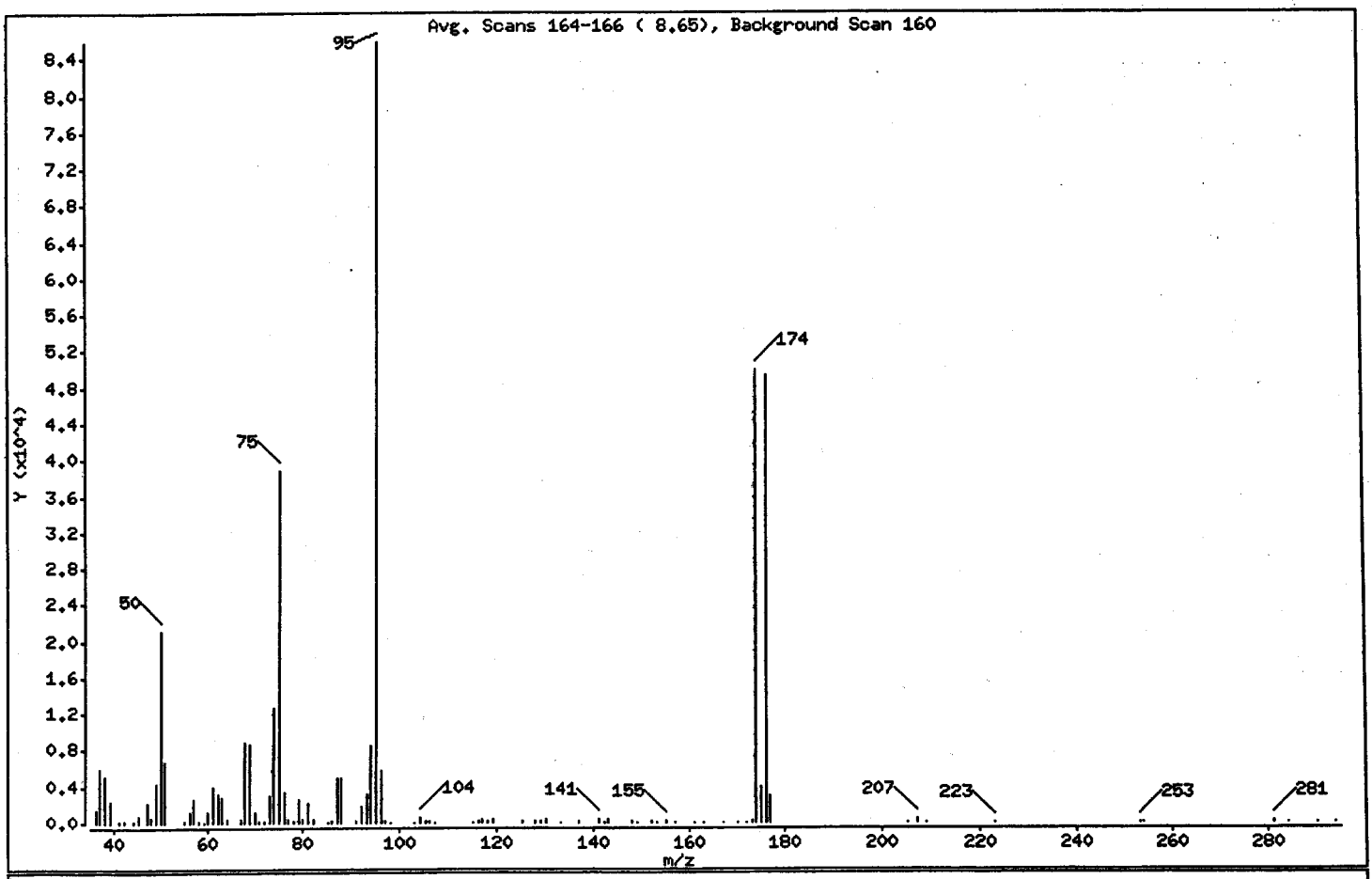
1 Bromofluorobenzene

ICAL

Instrument: MSVOA08.i

Operator: LW

Column diameter: 2.00



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.65
75	30.00 - 60.00% of mass 95	45.32
96	5.00 - 9.00% of mass 95	6.71
173	Less than 2.00% of mass 174	0.17 (0.29)
174	50.00 - 99.99% of mass 95	58.22
175	5.00 - 9.00% of mass 174	4.51 (7.74)
176	95.01 - 100.99% of mass 174	57.53 (98.81)
177	5.00 - 9.00% of mass 176	3.50 (6.09)

a 02/02/06

LW 2-1-06

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\031506.b\HCF02.D

Date : 15-MAR-2006 07:37

Client ID: bfb tune std

Instrument: MSVOA08.i

Sample Info: BFB,S2327

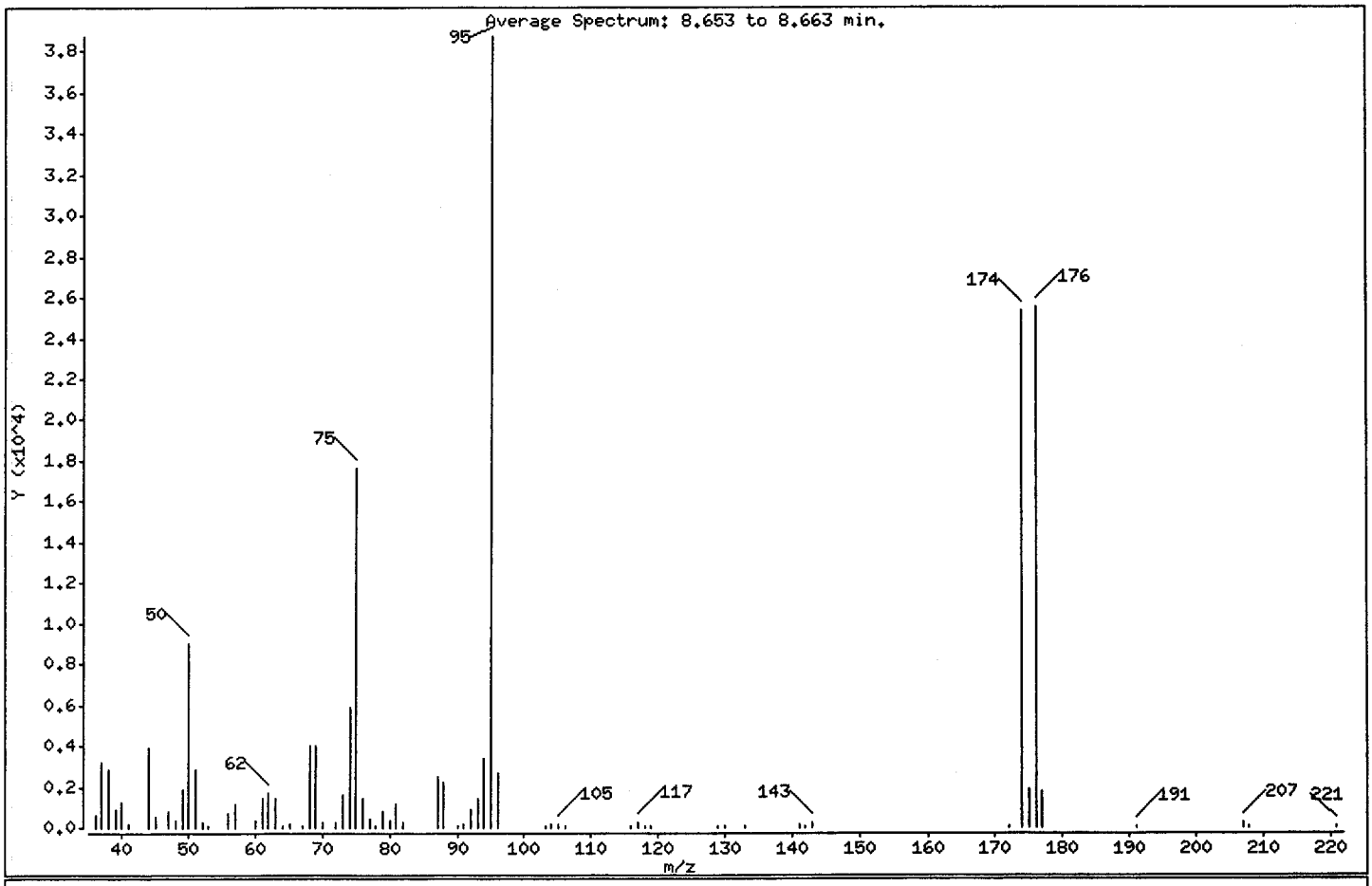
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.26
75	30.00 - 60.00% of mass 95	45.56
96	5.00 - 9.00% of mass 95	6.99
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	65.53
175	5.00 - 9.00% of mass 174	4.81 (7.33)
176	95.01 - 100.99% of mass 174	65.93 (100.61)
177	5.00 - 9.00% of mass 176	4.52 (6.86)

Q 03/16/06

LW 3-15-06

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\031506.b\HCF10.D

Date : 15-MAR-2006 12:35

Client ID: bfb tune std

Instrument: MSVOA08.i

Sample Info: BFB,S2327

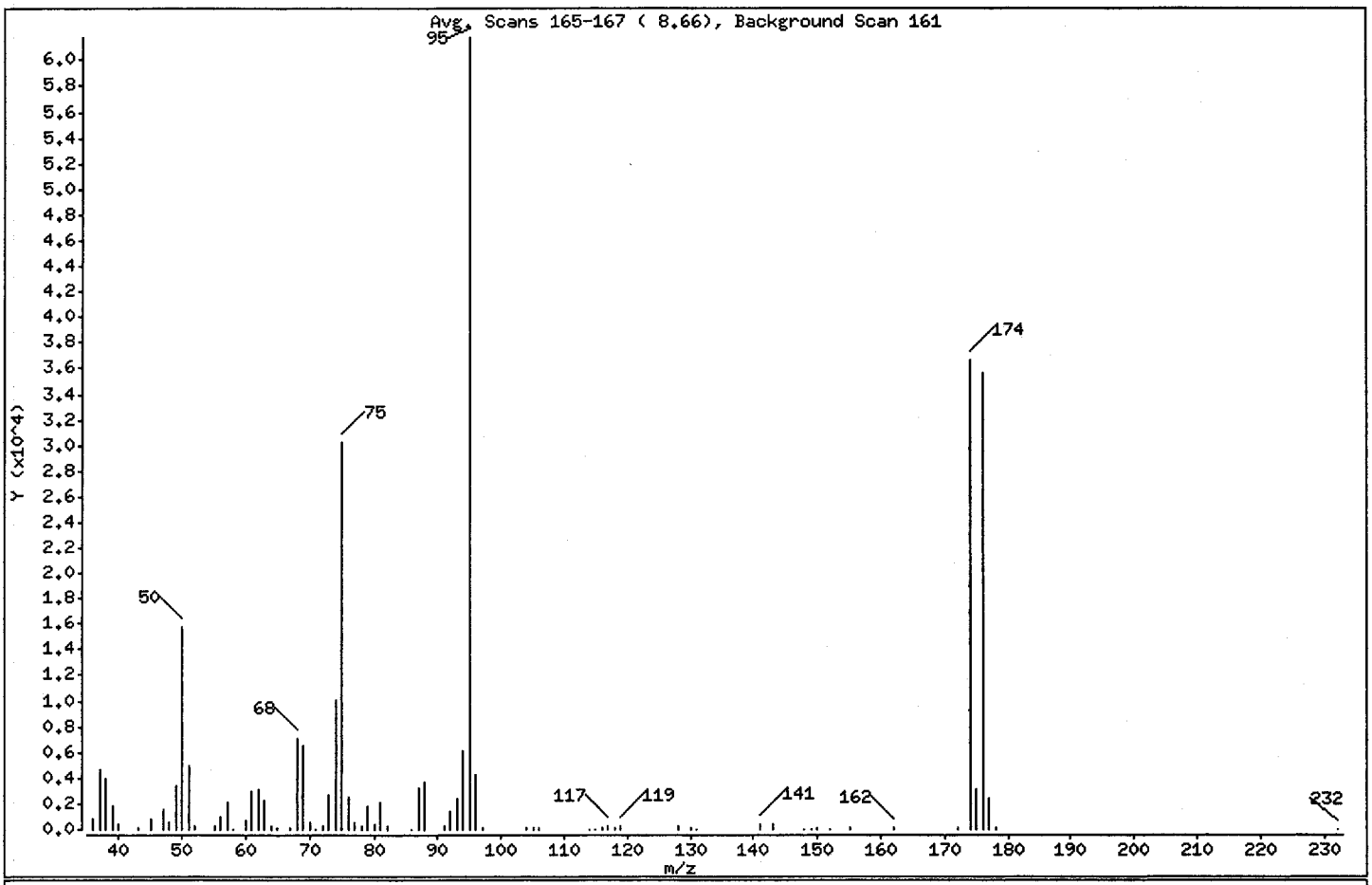
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	25.45
75	30.00 - 60.00% of mass 95	48.91
96	5.00 - 9.00% of mass 95	7.01
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	59.39
175	5.00 - 9.00% of mass 174	5.03 (8.47)
176	95.01 - 100.99% of mass 174	57.63 (97.04)
177	5.00 - 9.00% of mass 176	4.01 (6.95)

LW 3-15-06

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\031606.b\HCG02.D

Date : 16-MAR-2006 07:55

Client ID: bfb tune std

Instrument: MSVOA08.i

Sample Info: BFB,S2327

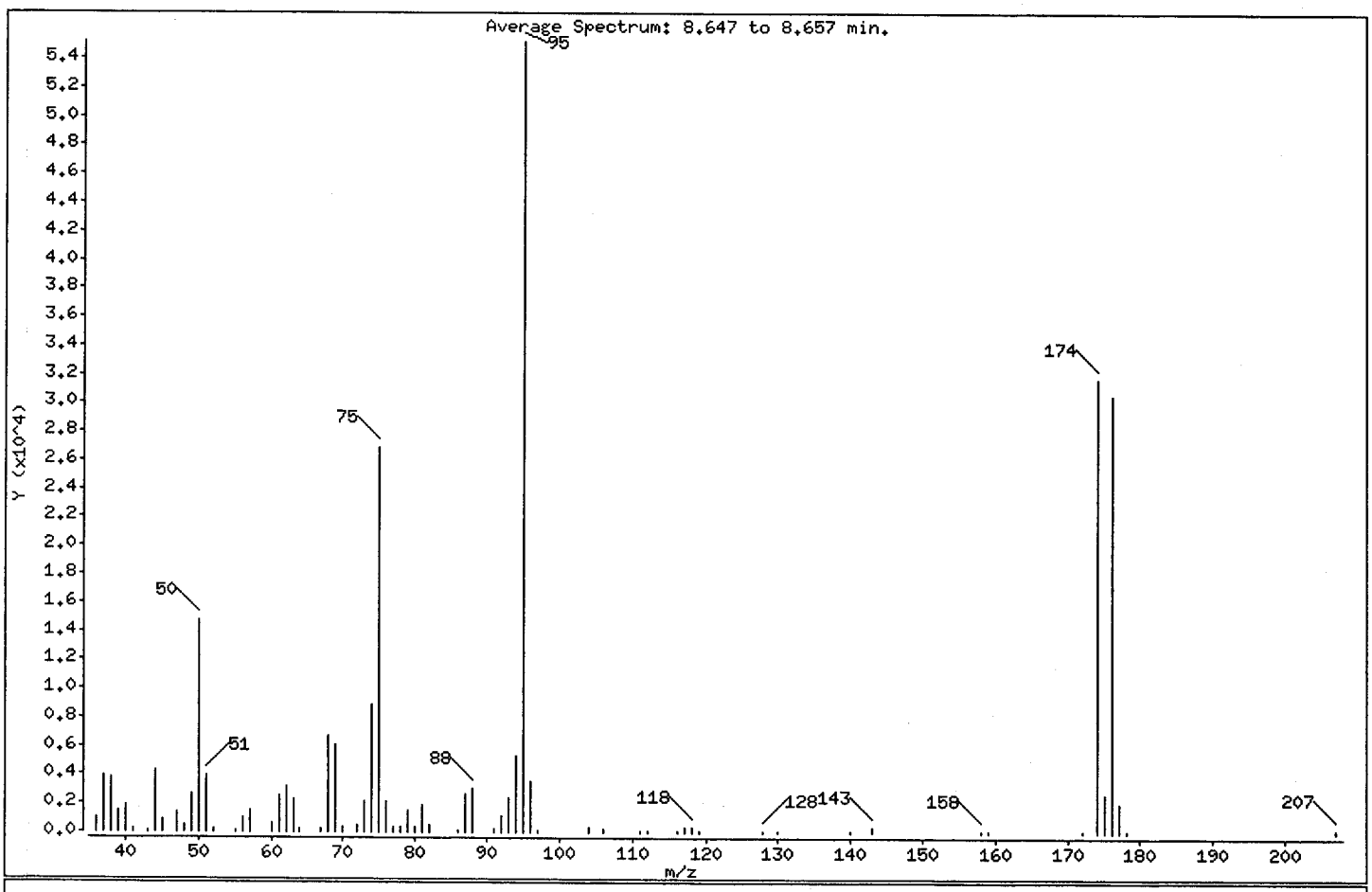
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	26.65
75	30.00 - 60.00% of mass 95	48.83
96	5.00 - 9.00% of mass 95	6.43
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	57.50
175	5.00 - 9.00% of mass 174	4.88 (8.50)
176	95.01 - 100.99% of mass 174	55.33 (96.23)
177	5.00 - 9.00% of mass 176	3.75 (6.77)

Q 03/17/06

LW 3-16-06

ICAL

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 8260B

Inst : MSVOA07 Name : 826GOX7
Calnum : 466096970001 Date : 08-MAR-2006 13:32 Type : WATER Inj Vol: 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	gc808	466096970008	0.5/0.25 PPB	08-MAR-2006 13:32	S2844 (2000000X), S2783 (1000000X), S2410 (2000000X), S2707 (5000X)
L2	gc809	466096970009	1.0/0.5 PPB	08-MAR-2006 14:03	S2844 (1000000X), S2783 (500000X), S2410 (1000000X), S2707 (5000X)
L3	gc810	466096970010	2 PPB	08-MAR-2006 14:34	S2844 (250000X), S2783 (250000X), S2410 (500000X), S2707 (5000X)
L4	gc811	466096970011	5 PPB	08-MAR-2006 15:05	S2844 (100000X), S2783 (100000X), S2410 (200000X), S2707 (5000X)
L5	gc812	466096970012	10 PPB	08-MAR-2006 15:36	S2844 (50000X), S2783 (50000X), S2410 (100000X), S2707 (5000X)
L6	gc813	466096970013	20 PPB	08-MAR-2006 16:07	S2844 (25000X), S2783 (25000X), S2410 (50000X), S2707 (5000X)
L7	gc814	466096970014	50 PPB	08-MAR-2006 16:38	S2844 (10000X), S2783 (10000X), S2410 (20000X), S2707 (5000X)
L8	gc815	466096970015	75 PPB	08-MAR-2006 17:09	S2844 (6667X), S2783 (6667X), S2410 (13330X), S2707 (5000X)
L9	gc816	466096970016	100 PPB	08-MAR-2006 17:40	S2844 (5000X), S2783 (5000X), S2410 (10000X), S2707 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.9083m	0.7499m	0.6125	0.7721	0.6417	0.5719	0.8192	0.7411	AVRG	R		1.37539		ug/L	0.7271	15	15	0.050	0.99	
Chloromethane	1.5379	1.2114	1.1383	0.9576	0.9641	0.8746	0.7949	0.8561	0.8090	QUAD	R	-0.6866	1.19714	3.998E-4	ug/L	1.0160	0.998	15	0.10	0.99	
Vinyl Chloride	0.9862m	0.9743m	0.9357m	0.7261	0.7982	0.6847	0.6148	0.7559	0.6808	LINR	R	-0.0235	1.43201		ug/L	0.7952	0.992	15	0.050	0.99	
Bromomethane	0.8834m	0.6335	0.5759	0.4986	0.4808	0.4478	0.4197	0.4315	0.4219	QUAD	R	-0.7453	2.34608	7.995E-4	ug/L	0.5326	1.000	15	0.050	0.99	
Chloroethane	0.5442	0.6161	0.5822m	0.5251	0.5098m	0.4708m	0.4393	0.4892	0.4796	AVRG	R		1.93286		ug/L	0.5174	11	15	0.050	0.99	
Trichlorofluoromethane		1.0978	0.9446	0.7709	0.9479	0.7843	0.6886	0.9576	0.8807	AVRG	R		1.13117		ug/L	0.8840	15	15	0.050	0.99	
Acetone			0.2881m	0.2345	0.2107	0.1973	0.1943	0.2031	0.2202	AVRG	R		4.52106		ug/L	0.2212	15	15	0.050	0.99	
Freon 113	0.3848	0.4257	0.5232	0.3687	0.5300	0.4410	0.4210	0.4662	0.4384	AVRG	R		2.25054		ug/L	0.4443	12	15	0.050	0.99	
1,1-Dichloroethene	0.3043	0.3604m	0.4101	0.3477	0.3945	0.3655	0.3843	0.3961	0.3996	AVRG	R		2.67655		ug/L	0.3736	9	15	0.050	0.99	
Methylene Chloride			0.6724	0.6194	0.6074	0.5897	0.5714	0.5605	0.5535	AVRG	R		1.67692		ug/L	0.5963	7	15	0.050	0.99	
Carbon Disulfide		2.3748	2.2801	1.7672	1.9367	1.7770	1.7129	1.7003	1.6834	AVRG	R		0.52520		ug/L	1.9040	14	15	0.050	0.99	
MTBE	1.2113m	1.1549m	1.2577m	1.2394	1.4720	1.6008	1.7510	1.8238	1.8345	QUAD	R	0.79716	0.58318	-0.00025	ug/L	1.4828	1.000	15	0.050	0.99	
trans-1,2-Dichloroethene	0.5236	0.5562	0.5577	0.4884	0.5403	0.5227	0.5135	0.5128	0.5161	AVRG	R		1.90226		ug/L	0.5257	4	15	0.050	0.99	
Vinyl Acetate	1.0167	0.9604	1.0038	1.0399	1.3492	1.4467	1.5144	1.5449	1.4158	LINR	R	0.35516	0.67674		ug/L	1.2546	0.997	15	0.050	0.99	
1,1-Dichloroethane	1.2016	1.2333	1.1861	1.1046	1.1458	1.1024	1.0712	1.0512	1.0333	AVRG	R		0.88850		ug/L	1.1255	6	15	0.10	0.99	
2-Butanone			0.2660	0.2603	0.2739	0.2714	0.2852	0.3055	0.3161	AVRG	R		3.53809		ug/L	0.2826	7	15	0.050	0.99	
2,2-Dichloropropane	0.6032	0.7931	0.7741	0.6900	0.7683	0.6883	0.7009	0.7091	0.6877	AVRG	R		1.40302		ug/L	0.7127	8	15	0.050	0.99	
cis-1,2-Dichloroethene	0.4462m	0.5324m	0.5292	0.5155	0.5471	0.5589	0.5763	0.5785	0.5775	AVRG	R		1.85126		ug/L	0.5402	8	15	0.050	0.99	
Chloroform	1.1746	0.9887	1.1324	1.0424	1.0864	1.0350	1.0064	0.9906	0.9754	AVRG	R		0.95420		ug/L	1.0480	7	15	0.050	0.99	
Bromochloromethane		0.2609	0.3217	0.2796	0.2953	0.2858	0.2819	0.2809	0.2807	AVRG	R		3.49837		ug/L	0.2858	6	15	0.050	0.99	
1,1,1-Trichloroethane	0.8840	0.8831	0.9626	0.8082	0.8769	0.7887	0.7792	0.7958	0.7752	AVRG	R		1.19145		ug/L	0.8393	8	15	0.050	0.99	
1,1-Dichloropropene	0.3508m	0.3298	0.3711	0.3258	0.3918	0.3628	0.3922	0.4205	0.4135	AVRG	R		2.67986		ug/L	0.3732	9	15	0.050	0.99	
Carbon Tetrachloride	0.3888	0.4213	0.4267	0.3498	0.4125	0.3635	0.3695	0.3929	0.3819	AVRG	R		2.56635		ug/L	0.3897	7	15	0.050	0.99	
1,2-Dichloroethane	0.5368m	0.5572	0.5690	0.5424	0.5606	0.5357	0.5308	0.5210	0.5111	AVRG	R		1.85016		ug/L	0.5405	4	15	0.050	0.99	
Benzene	1.6464	1.3438	1.4823	1.3817	1.4451	1.3757	1.3580	1.3447	1.3312	AVRG	R		0.70816		ug/L	1.4121	7	15	0.050	0.99	

 ICAL-OK ICV - Cyclohexanone ✓ (USACE Freon 12 ✓, TCFM ✓, CDS ✓)
LW 3-9-06

AW 53 water

466096970001

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Trichloroethene	0.2858	0.2712	0.3233	0.2785	0.3070	0.2838	0.2928	0.3041	0.3051	AVRG	R		3.39399		ug/L	0.2946	6	15	0.050	0.99	
1,2-Dichloropropane	0.2570	0.3043	0.3544	0.3323	0.3574	0.3596	0.3787	0.3773	0.3802	AVRG	R		2.90197		ug/L	0.3446	12	15	0.050	0.99	
Bromodichloromethane	0.3782	0.3725	0.4338	0.4031	0.4297	0.4207	0.4288	0.4291	0.4314	AVRG	R		2.41471		ug/L	0.4141	6	15	0.050	0.99	
Dibromomethane	0.1301	0.1970	0.2155	0.2122	0.2192	0.2136	0.2128	0.2147	0.2130	AVRG	R		4.92309		ug/L	0.2031	14	15	0.050	0.99	
2-Chloroethylvinylether	0.0929	0.0881	0.1051	0.0963	0.1165	0.1446	0.1904	0.2128	0.2243	QUAD	R	1.81259	5.58636	-0.05561	ug/L	0.1412	0.998	15	0.050	0.99	
4-Methyl-2-Pentanone			0.2426	0.2532	0.3097	0.3369	0.3837	0.4107	0.4150	QUAD	R	1.69870	2.61528	-0.00628	ug/L	0.3360	1.000	15	0.050	0.99	
Tetramethyl THF	0.4294m	0.3419m	0.4347	0.4670	0.5876	0.6657	0.7495	0.7765	0.7792	QUAD	R	1.11389	1.35433	-0.00119	ug/L	0.5813	0.999	15	0.050	0.99	
cis-1,3-Dichloropropene	0.3907	0.3331	0.3885	0.4543	0.5361	0.5566	0.5831	0.5877	0.5894	QUAD	R	0.59122	1.71864	-0.00059	ug/L	0.4911	1.000	15	0.050	0.99	
Toluene	0.8347	0.7454	0.8266	0.7759	0.8302	0.8016	0.8239	0.8394	0.8311	AVRG	R		1.23137		ug/L	0.8121	4	15	0.050	0.99	
trans-1,3-Dichloropropene	0.4290	0.3613	0.4229	0.4026	0.4549	0.4770	0.5323	0.5423	0.5467	AVRG	R		2.15886		ug/L	0.4632	14	15	0.050	0.99	
1,1,2-Trichloroethane		0.1520	0.1700	0.1694	0.1734	0.1646	0.1708	0.1702	0.1698	AVRG	R		5.96877		ug/L	0.1675	4	15	0.050	0.99	
2-Hexanone			0.1629	0.1631	0.1907	0.2141	0.2541	0.2874	0.2944	QUAD	R	2.00929	4.00011	-0.02390	ug/L	0.2238	0.999	15	0.050	0.99	
1,3-Dichloropropane	0.4917m	0.5072	0.5651	0.5488	0.6117	0.6268	0.6269	0.6339	0.6271	AVRG	R		1.71775		ug/L	0.5822	10	15	0.050	0.99	
Tetrachloroethene	0.2746	0.2661	0.3228	0.2611	0.3074	0.2762	0.2755	0.3020	0.2914	AVRG	R		3.49239		ug/L	0.2863	7	15	0.050	0.99	
Dibromochloromethane		0.2347	0.2830	0.2717	0.2888	0.2979	0.3102	0.3258	0.3252	AVRG	R		3.42280		ug/L	0.2922	10	15	0.050	0.99	
1,2-Dibromoethane	0.2558	0.2527	0.2678	0.2653	0.2899	0.2942	0.3102	0.3156	0.3203	AVRG	R		3.49946		ug/L	0.2858	9	15	0.050	0.99	
Chlorobenzene	1.0783	1.0085	1.0859	1.0014	1.0247	0.9853	0.9606	0.9910	0.9756	AVRG	R		0.98779		ug/L	1.0124	4	15	0.30	0.99	
1,1,1,2-Tetrachloroethane	0.3339m	0.3230	0.3488m	0.3330	0.3443	0.3420	0.3359	0.3475	0.3412	AVRG	R		2.95113		ug/L	0.3389	2	15	0.050	0.99	
Ethylbenzene	1.4104	1.2870	1.4510	1.4000	1.5874	1.5611	1.5956	1.6974	1.6500	AVRG	R		0.65983		ug/L	1.5155	9	15	0.050	0.99	
m,p-Xylenes	0.4618	0.3933	0.5051	0.5253	0.6269	0.6243	0.6379	0.6799	0.6640	QUAD	R	0.97966	1.54447	-0.00044	ug/L	0.5688	0.999	15	0.050	0.99	
o-Xylene	0.3917m	0.3392	0.4053	0.4349	0.5291	0.5712	0.6102	0.6549	0.6531	QUAD	R	0.80519	1.65909	-0.00233	ug/L	0.5099	0.999	15	0.050	0.99	
Styrene	0.5090	0.4786	0.6328	0.7221	0.9280	1.0060	1.0886	1.1584	1.1476	QUAD	R	0.97727	0.92032	-0.00056	ug/L	0.8523	0.999	15	0.050	0.99	
Bromoform	0.2143	0.1679	0.1974	0.1835	0.1994	0.2019	0.2163	0.2305	0.2345	AVRG	R		4.87621		ug/L	0.2051	10	15	0.10	0.99	
Isopropylbenzene	1.3993	1.3214	1.6369	1.6533	2.1288	2.1595	2.3391	2.5821	2.5111	QUAD	R	0.86219	0.42557	-0.00014	ug/L	1.9702	0.999	15	0.050	0.99	
1,1,2,2-Tetrachloroethane	0.9695	0.8213	0.8443	0.7863	0.8209	0.8037	0.7813	0.8056	0.7857	AVRG	R		1.21317		ug/L	0.8243	7	15	0.30	0.99	
1,2,3-Trichloropropane	0.8442	0.8075	0.8710	0.8242	0.8598	0.8368	0.8027	0.8280	0.8229	AVRG	R		1.20048		ug/L	0.8330	3	15	0.050	0.99	
Propylbenzene	2.5856	2.3723	2.7952	2.7124	3.1827	3.0609	3.1556	3.4752	3.3204	AVRG	R		0.33758		ug/L	2.9623	12	15	0.050	0.99	
Bromobenzene	0.7701	0.6054	0.7345	0.6628	0.7192	0.7025	0.6813	0.7082	0.7019	AVRG	R		1.43180		ug/L	0.6984	7	15	0.050	0.99	
1,3,5-Trimethylbenzene	1.6635	1.3235	1.7239	1.8662	2.2400	2.1979	2.2529	2.4590	2.3940	QUAD	R	0.50311	0.43890	-0.00012	ug/L	2.0134	0.999	15	0.050	0.99	
2-Chlorotoluene	1.9873	1.7326	2.0605	2.0456	2.2772	2.2285	2.2334	2.3835	2.3083	AVRG	R		0.46736		ug/L	2.1397	9	15	0.050	0.99	
4-Chlorotoluene	1.7560	1.5066	1.8374	1.9018	2.0323	2.0399	2.0565	2.1852	2.1445	AVRG	R		0.51546		ug/L	1.9400	11	15	0.050	0.99	
tert-Butylbenzene	1.2496m	1.1127	1.3766	1.3352	1.7076	1.6800	1.8039	2.0307	1.9478	QUAD	R	0.78318	0.54779	-0.00024	ug/L	1.5827	0.998	15	0.050	0.99	
1,2,4-Trimethylbenzene	1.2609	1.2199	1.7210	1.9397	2.3226	2.3454	2.3810	2.5633	2.5212	QUAD	R	0.52275	0.41683	-0.00010	ug/L	2.0305	0.999	15	0.050	0.99	
sec-Butylbenzene	1.8104	1.5996	2.1906	2.0528	2.7246	2.5685	2.7484	3.1180	2.9506	QUAD	R	0.75126	0.35572	-8.93E-5	ug/L	2.4182	0.997	15	0.050	0.99	
para-Isopropyl Toluene	1.3233	1.2429	1.6875	1.7706	2.2909	2.2144	2.3888	2.7039	2.5911	QUAD	R	0.81937	0.41341	-0.00015	ug/L	2.0237	0.998	15	0.050	0.99	
1,3-Dichlorobenzene	1.3806m	1.2086	1.4546	1.3676	1.4453	1.3925	1.3596	1.4419	1.4021	AVRG	R		0.72273		ug/L	1.3836	5	15	0.050	0.99	
1,4-Dichlorobenzene	1.7743	1.6114	1.6707	1.5620	1.5462	1.4671	1.4323	1.4997	1.4713	AVRG	R		0.64126		ug/L	1.5594	7	15	0.050	0.99	
n-Butylbenzene	1.7363	1.5416	1.8368	1.6915	2.2213	2.1318	2.2989	2.6353	2.4884	QUAD	R	0.79925	0.42658	-0.00015	ug/L	2.0647	0.997	15	0.050	0.99	
1,2-Dichlorobenzene	1.2867	1.2166	1.3823	1.2992	1.3883	1.3517	1.3610	1.4025	1.3909	AVRG	R		0.74508		ug/L	1.3421	5	15	0.050	0.99	
1,2-Dibromo-3-Chloropropane	0.1797	0.0841	0.1634m	0.1511	0.1616	0.1530	0.1655	0.1790	0.1783	QUAD	R	0.30810	6.19872	-0.03676	ug/L	0.1573	0.999	15	0.050	0.99	
1,2,4-Trichlorobenzene	0.8569m	0.8114	0.8146	0.8207	0.9505	0.9892	1.0100	1.0912	1.0836	AVRG	R		1.06785		ug/L	0.9365	12	15	0.050	0.99	

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Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Hexachlorobutadiene		0.2980	0.4378	0.3602	0.4030	0.3473	0.3613	0.4110	0.3780	AVRG	R		2.66969		ug/L	0.3746	12	15	0.050	0.99	
Naphthalene	1.1797	1.1733	1.5062	1.7496	2.2576	2.6088	2.8790	3.1113		QUAD	R	0.81183	0.38540	-0.00029	ug/L	2.0582	1.000	15	0.050	0.99	
1,2,3-Trichlorobenzene		0.6756m	0.8266	0.8882	0.9762	0.9984	1.0287	1.0878	1.0644	AVRG	R		1.06017		ug/L	0.9432	15	15	0.050	0.99	
tert-Butyl Alcohol (TBA)		0.0331m	0.0328	0.0325	0.0351	0.0384	0.0407	0.0443	0.0484	AVRG	R		26.2038		ug/L	0.0382	15	15	0.005	0.99	
Isopropyl Ether (DIPE)	1.5107m	1.3915	1.4657	1.4728	1.7827	1.9428	2.1434	2.1851	2.1843	QUAD	R	0.88363	0.47058	-8.60E-5	ug/L	1.7865	1.000	15	0.050	0.99	
Ethyl tert-Butyl Ether (ETBE)	1.1600m	1.0112	1.1090	1.1503	1.3594	1.5123	1.6815	1.7390	1.7506	QUAD	R	0.92249	0.60718	-0.00025	ug/L	1.3859	1.000	15	0.050	0.99	
Methyl tert-Amyl Ether (TAME)	0.7097m	0.6744	0.7124	0.7425	0.8473	0.8992	0.9837	1.0153	1.0297	QUAD	R	0.66920	1.04797	-0.00084	ug/L	0.8460	1.000	15	0.050	0.99	
Cyclohexanone	0.0894m	0.0596	0.0451	0.0790	0.0394	0.0511	0.0799	0.0958		QUAD	R	11.0159	15.8043	-0.07778	ug/L	0.0674	0.994	15	0.005	0.99	
Ethanol	0.0083m	0.0073	0.0071	0.0061	0.0070	0.0073	0.0068	0.0072	0.0073	AVRG	R		139.997		ug/L	0.0071	8	15	0.0005	0.99	
Isopropanol			0.0289	0.0230	0.0268	0.0285	0.0282	0.0307	0.0325	AVRG	R		35.2585		ug/L	0.0284	11	15	0.005	0.99	
Tetrahydrofuran	0.1584	0.1436	0.1533	0.1665	0.2022	0.2104	0.2129	0.2205	0.2152	LINR	R	5.59859	4.58672		ug/L	0.1870	1.000	15	0.005	0.99	
Dibromofluoromethane	0.5804	0.5822	0.5533	0.5427	0.5323	0.5267	0.5182	0.5132	0.5050	AVRG	R		1.85411		ug/L	0.5393	5	15	0.050	0.99	
1,2-Dichloroethane-d4	0.4554	0.4595	0.4611	0.4635	0.4541	0.4501	0.4483	0.4379	0.4364	AVRG	R		2.21324		ug/L	0.4518	2	15	0.050	0.99	
Trifluorotoluene	0.3857m	0.3478	0.4334	0.3548	0.4325	0.3918	0.4035	0.4393	0.4275	AVRG	R		2.48874		ug/L	0.4018	9	15	0.050	0.99	
Toluene-d8	1.1121	1.1179	1.1463	1.1678	1.1841	1.1872	1.2121	1.1921	1.1729	AVRG	R		0.85776		ug/L	1.1658	3	15	0.050	0.99	
Bromofluorobenzene	0.9226	0.9108	0.9184	0.9516	0.9192	0.9498	0.9533	0.9538	0.9535	AVRG	R		1.06722		ug/L	0.9370	2	15	0.050	0.99	

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m=manual integration

AVRG=Average response factor LINR=Linear regression QUAD=Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

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Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC808.D
Report Date: 09-Mar-2006 09:21

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC808.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 08-MAR-2006 13:32 MS Autotune Date: 10-JAN-2006 07:50
Operator : LW Inst ID: MSVOA07.i
Smp Info : ICAL,S2844,0.0005/1000,S2783,0.001/1000,
Misc Info : S2410,0.0005/1000,0.5/0.25 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\826GOX7.m
Meth Date : 09-Mar-2006 09:04 target Quant Type: ISTD
Cal Date : 08-MAR-2006 13:32 Cal File: GC808.D
Als bottle: 8 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.207	4.201	(0.415)	4146	0.50000	0.6304(M)
2 Chloromethane	50	4.614	4.614	(0.455)	6955	0.50000	0.2341(a)
3 Vinyl Chloride	62	4.815	4.815	(0.475)	4460	0.50000	0.6825(M)
4 Bromomethane	94	5.466	5.466	(0.539)	3995	0.50000	0.2910(aM)
5 Chloroethane	64	5.630	5.630	(0.556)	2461	0.50000	0.5259
6 Trichlorofluoromethane	101	6.008	6.008	(0.593)	5247	0.50000	0.6562
7 Ethanol	45	6.269	6.269	(0.619)	1868	25.0000	28.9132(AM)
8 Freon 113	101	6.780	6.774	(0.669)	870	0.25000	0.2164(a)
9 1,1-Dichloroethene	96	6.871	6.871	(0.678)	688	0.25000	0.2035(a)
10 Acetone	43	6.981	6.969	(0.689)	1610	0.25000	0.8047(M)
12 Carbon Disulfide	76	7.285	7.285	(0.719)	7276	0.25000	0.4224(a)
13 Methylene Chloride	84	7.638	7.638	(0.754)	2275	0.25000	0.4217(a)
15 MTBE	73	7.918	7.912	(0.781)	2739	0.25000	0.9737(M)
16 trans-1,2-Dichloroethene	96	7.985	7.985	(0.788)	1184	0.25000	0.2490(a)
17 Isopropyl Ether (DIPE)	45	8.538	8.538	(0.843)	3416	0.25000	1.0613(AM)
18 Vinyl Acetate	43	8.611	8.605	(0.850)	2299	0.25000	0.5271
19 1,1-Dichloroethane	63	8.654	8.660	(0.854)	2717	0.25000	0.2668(a)
20 Ethyl tert-Butyl Ether (ETBE)	59	9.080	9.068	(0.896)	2623	0.25000	1.0985(AM)
22 2,2-Dichloropropane	77	9.487	9.487	(0.936)	1364	0.25000	0.2115(a)
23 cis-1,2-Dichloroethene	96	9.512	9.500	(0.939)	1009	0.25000	0.2065(aM)
25 Tetrahydrofuran	42	9.877	9.877	(0.975)	3581	2.50000	7.4145(A)
26 Chloroform	83	9.913	9.913	(0.978)	2656	0.25000	0.2802(a)

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3-9-06

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC808.D
Report Date: 09-Mar-2006 09:21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 27 Pentafluorobenzene	168	10.132	10.126	(1.000)	452240	50.0000	
$ 28 Dibromofluoromethane	113	10.163	10.163	(1.003)	262478	50.0000	53.8059
29 1,1,1-Trichloroethane	97	10.211	10.211	(1.008)	1999	0.25000	0.2633(a)
30 Carbon Tetrachloride	117	10.412	10.424	(0.923)	1608	0.25000	0.2494(a)
31 1,1-Dichloropropene	75	10.436	10.443	(0.925)	1451	0.25000	0.2350(aM)
$ 32 1,2-Dichloroethane-d4	65	10.734	10.735	(0.951)	376709	50.0000	50.3996
33 Benzene	78	10.765	10.765	(0.954)	6809	0.25000	0.2914(a)
34 Methyl tert-Amyl Ether (TAME)	73	10.777	10.771	(0.955)	2935	0.25000	0.8551(AM)
35 1,2-Dichloroethane	62	10.856	10.850	(0.962)	2220	0.25000	0.2482(aM)
* 36 1,4-Difluorobenzene	114	11.282	11.282	(1.000)	827135	50.0000	
37 Trichloroethene	95	11.690	11.696	(1.036)	1182	0.25000	0.2425(a)
$ 38 Trifluorotoluene	146	12.055	12.067	(1.068)	1595	0.25000	0.2399(aAM)
39 1,2-Dichloropropane	63	12.109	12.109	(1.073)	1063	0.25000	0.1864(a)
40 Dibromomethane	93	12.292	12.298	(1.090)	538	0.25000	0.1601(a)
41 Bromodichloromethane	83	12.450	12.456	(1.104)	1564	0.25000	0.2282(a)
42 2-Chloroethylvinylether	63	12.809	12.815	(1.135)	768	0.50000	2.0718
43 Tetramethyl THF	43	13.052	13.052	(1.157)	1776	0.25000	1.2592(AM)
44 cis-1,3-Dichloropropene	75	13.083	13.089	(1.160)	1616	0.25000	0.7591
$ 46 Toluene-d8	98	13.436	13.430	(1.191)	919832	50.0000	47.6942
47 Toluene	92	13.527	13.527	(1.199)	3452	0.25000	0.2569(a)
48 trans-1,3-Dichloropropene	75	13.849	13.849	(1.228)	1774	0.25000	0.2315(a)
50 Tetrachloroethene	166	14.245	14.251	(0.926)	1051	0.25000	0.2397(a)
52 1,3-Dichloropropane	76	14.372	14.366	(0.934)	1882	0.25000	0.2111(aM)
53 Dibromochloromethane	129	14.640	14.640	(0.952)	722	0.25000	0.1614(a)
54 1,2-Dibromoethane	107	14.853	14.853	(1.317)	1058	0.25000	0.2238(a)
* 55 Chlorobenzene-d5	117	15.382	15.382	(1.000)	765434	50.0000	
56 Chlorobenzene	112	15.419	15.419	(1.002)	4127	0.25000	0.2662(a)
57 Ethylbenzene	91	15.474	15.474	(1.006)	5398	0.25000	0.2326(a)
58 1,1,1,2-Tetrachloroethane	131	15.492	15.498	(1.007)	1278	0.25000	0.2463(aM)
59 m,p-Xylenes	106	15.614	15.614	(1.015)	3535	0.50000	1.3362
60 o-Xylene	106	16.118	16.118	(1.048)	1499	0.25000	0.9676(M)
61 Styrene	104	16.137	16.137	(1.049)	1948	0.25000	1.0943
62 Bromoform	173	16.429	16.435	(1.068)	820	0.25000	0.2611(a)
63 Isopropylbenzene	105	16.514	16.514	(0.912)	2982	0.25000	1.0110
64 Cyclohexanone	55	16.775	16.751	(0.927)	1906	2.50000	14.5459(AM)
$ 65 Bromofluorobenzene	95	16.775	16.776	(0.927)	393208	50.0000	49.2297
66 1,1,2,2-Tetrachloroethane	83	16.909	16.909	(0.934)	2066	0.25000	0.2940(a)
67 Bromobenzene	156	16.982	16.982	(0.938)	1641	0.25000	0.2756(a)
68 Propylbenzene	91	16.994	16.988	(0.939)	5510	0.25000	0.2182(a)
69 1,2,3-Trichloropropane	75	17.001	17.007	(0.939)	1799	0.25000	0.2533(a)
70 2-Chlorotoluene	91	17.165	17.165	(0.948)	4235	0.25000	0.2321(a)
71 1,3,5-Trimethylbenzene	105	17.165	17.171	(0.948)	3545	0.25000	0.6856
72 4-Chlorotoluene	91	17.287	17.280	(0.955)	3742	0.25000	0.2262(a)
73 tert-Butylbenzene	119	17.548	17.548	(0.969)	2663	0.25000	0.9542(M)
74 1,2,4-Trimethylbenzene	105	17.615	17.609	(0.973)	2687	0.25000	0.6541
75 sec-Butylbenzene	105	17.798	17.798	(0.983)	3858	0.25000	0.9122
76 para-Isopropyl Toluene	119	17.937	17.937	(0.991)	2820	0.25000	0.9561
77 1,3-Dichlorobenzene	146	18.029	18.023	(0.996)	2942	0.25000	0.2494(aM)
* 78 1,4-Dichlorobenzene-d4	152	18.102	18.102	(1.000)	426205	50.0000	
79 1,4-Dichlorobenzene	146	18.132	18.132	(1.002)	3781	0.25000	0.2844(a)
80 n-Butylbenzene	91	18.418	18.418	(1.017)	3700	0.25000	0.9843
81 1,2-Dichlorobenzene	146	18.594	18.595	(1.027)	2742	0.25000	0.2396(a)
82 1,2-Dibromo-3-Chloropropane	75	19.562	19.580	(1.081)	383	0.25000	0.5865
83 1,2,4-Trichlorobenzene	180	20.693	20.693	(1.143)	1826	0.25000	0.2287(aM)

LW 3-9-06

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC808.D
Report Date: 09-Mar-2006 09:21

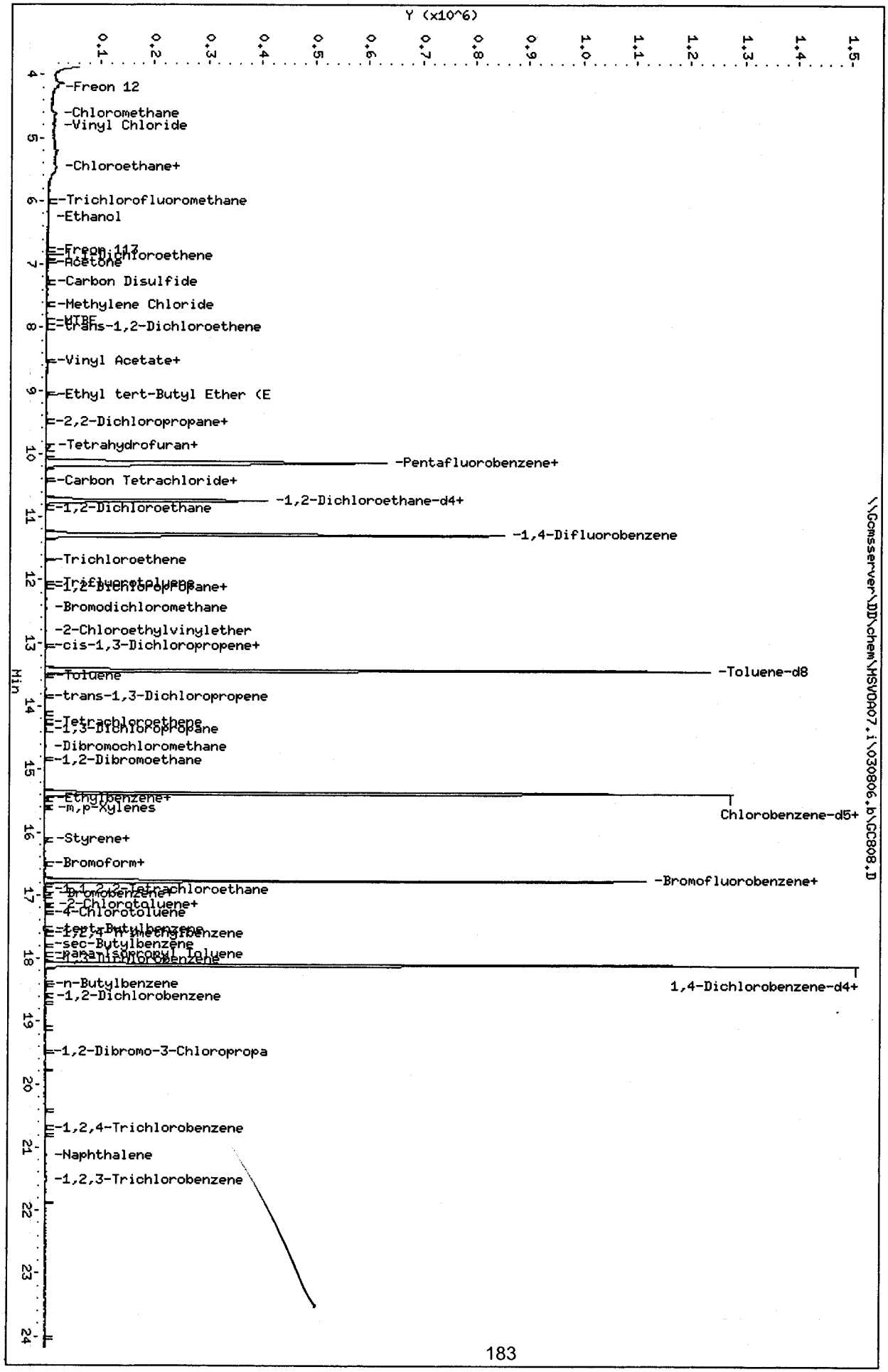
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
85 Naphthalene	128	21.125	21.125	(1.167)	2514	0.25000	0.9254
86 1,2,3-Trichlorobenzene	180	21.521	21.515	(1.189)	1634	0.25000	0.2032(aM) LW3-9-06

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\HSVOA07.i\030806.b\GC808.D
Date : 08-MAR-2006 13:32
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.0005/1000,S2783,0.001/1000,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: HSVOA07.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC809.D
Report Date: 09-Mar-2006 09:21

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC809.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 08-MAR-2006 14:03 MS Autotune Date: 10-JAN-2006 07:50
Operator : LW Inst ID: MSVOA07.i
Smp Info : ICAL,S2844,0.001/1000,S2783,0.002/1000,
Misc Info : S2410,0.001/1000,1.0/0.5 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\826GOX7.m
Meth Date : 09-Mar-2006 09:04 target Quant Type: ISTD
Cal Date : 08-MAR-2006 14:03 Cal File: GC809.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.201	4.201	(0.415)	8014	1.00000	1.2492(M)
2 Chloromethane	50	4.620	4.614	(0.456)	10689	1.00000	0.7641
3 Vinyl Chloride	62	4.815	4.815	(0.475)	8597	1.00000	1.3717(M)
4 Bromomethane	94	5.466	5.466	(0.539)	5590	1.00000	0.7413
5 Chloroethane	64	5.630	5.630	(0.556)	5436	1.00000	1.1908
6 Trichlorofluoromethane	101	6.013	6.008	(0.594)	9686	1.00000	1.2417
7 Ethanol	45	6.275	6.269	(0.619)	3225	50.0000	51.1697(A)
8 Freon 113	101	6.780	6.774	(0.669)	1878	0.50000	0.4790(a)
9 1,1-Dichloroethene	96	6.883	6.871	(0.679)	1590	0.50000	0.4823(aM)
10 Acetone	43	6.975	6.969	(0.688)	1840	0.50000	0.9428
12 Carbon Disulfide	76	7.285	7.285	(0.719)	10477	0.50000	0.6236
13 Methylene Chloride	84	7.638	7.638	(0.754)	3240	0.50000	0.6157
14 tert-Butyl Alcohol (TBA)	59	7.644	7.632	(0.754)	1460	5.00000	4.3359(AM)
15 MTBE	73	7.918	7.912	(0.781)	5095	0.50000	1.1338(M)
16 trans-1,2-Dichloroethene	96	7.985	7.985	(0.788)	2454	0.50000	0.5290
17 Isopropyl Ether (DIPE)	45	8.544	8.538	(0.843)	6139	0.50000	1.2110(A)
18 Vinyl Acetate	43	8.605	8.605	(0.849)	4237	0.50000	0.6801
19 1,1-Dichloroethane	63	8.666	8.660	(0.855)	5441	0.50000	0.5478
20 Ethyl tert-Butyl Ether (ETBE)	59	9.067	9.068	(0.895)	4461	0.50000	1.2294(A)
22 2,2-Dichloropropane	77	9.487	9.487	(0.936)	3499	0.50000	0.5563
23 cis-1,2-Dichloroethene	96	9.499	9.500	(0.938)	2349	0.50000	0.4928(aM)
24 Bromochloromethane	128	9.877	9.871	(0.975)	1151	0.50000	0.4563(a)

LW 3-9-06

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC809.D
Report Date: 09-Mar-2006 09:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	25 Tetrahydrofuran	42	9.877	9.877	(0.975)	6337	5.00000	8.8927(A)
	26 Chloroform	83	9.913	9.913	(0.978)	4362	0.50000	0.4717(a)
*	27 Pentafluorobenzene	168	10.132	10.126	(1.000)	441170	50.0000	
$	28 Dibromofluoromethane	113	10.162	10.163	(1.003)	256832	50.0000	53.9696
	29 1,1,1-Trichloroethane	97	10.217	10.211	(1.008)	3896	0.50000	0.5260
	30 Carbon Tetrachloride	117	10.418	10.424	(0.923)	3405	0.50000	0.5406
	31 1,1-Dichloropropene	75	10.436	10.443	(0.925)	2665	0.50000	0.4418(a)
$	32 1,2-Dichloroethane-d4	65	10.734	10.735	(0.951)	371376	50.0000	50.8535
	33 Benzene	78	10.759	10.765	(0.954)	10860	0.50000	0.4758(a)
	34 Methyl tert-Amyl Ether (TAME)	73	10.771	10.771	(0.955)	5450	0.50000	1.0224(A)
	35 1,2-Dichloroethane	62	10.850	10.850	(0.962)	4503	0.50000	0.5154
*	36 1,4-Difluorobenzene	114	11.282	11.282	(1.000)	808147	50.0000	
	37 Trichloroethene	95	11.696	11.696	(1.037)	2192	0.50000	0.4602(a)
$	38 Trifluorotoluene	146	12.073	12.067	(1.070)	2811	0.50000	0.4328(aA)
	39 1,2-Dichloropropane	63	12.109	12.109	(1.073)	2459	0.50000	0.4414(a)
	40 Dibromomethane	93	12.298	12.298	(1.090)	1592	0.50000	0.4849(a)
	41 Bromodichloromethane	83	12.450	12.456	(1.104)	3010	0.50000	0.4496(a)
	42 2-Chloroethylvinylether	63	12.821	12.815	(1.136)	1424	1.00000	2.3043
	43 Tetramethyl THF	43	13.046	13.052	(1.156)	2763	0.50000	1.3453(AM) LW 3-9-06
	44 cis-1,3-Dichloropropene	75	13.083	13.089	(1.160)	2692	0.50000	0.8774
	45 4-Methyl-2-Pentanone	43	13.229	13.229	(1.173)	1988	0.50000	2.0202
$	46 Toluene-d8	98	13.429	13.430	(1.190)	903454	50.0000	47.9456
	47 Toluene	92	13.527	13.527	(1.199)	6024	0.50000	0.4589(a)
	48 trans-1,3-Dichloropropene	75	13.849	13.849	(1.228)	2920	0.50000	0.3900(a)
	49 1,1,2-Trichloroethane	85	14.117	14.117	(1.251)	1228	0.50000	0.4534(a)
	50 Tetrachloroethene	166	14.251	14.251	(0.926)	1991	0.50000	0.4646(a)
	52 1,3-Dichloropropane	76	14.366	14.366	(0.934)	3795	0.50000	0.4356(a)
	53 Dibromochloromethane	129	14.646	14.640	(0.952)	1756	0.50000	0.4016(a)
	54 1,2-Dibromoethane	107	14.853	14.853	(1.317)	2042	0.50000	0.4421(a)
*	55 Chlorobenzene-d5	117	15.382	15.382	(1.000)	748235	50.0000	
	56 Chlorobenzene	112	15.413	15.419	(1.002)	7546	0.50000	0.4980(a)
	57 Ethylbenzene	91	15.473	15.474	(1.006)	9630	0.50000	0.4246(a)
	58 1,1,1,2-Tetrachloroethane	131	15.504	15.498	(1.008)	2417	0.50000	0.4766(a)
	59 m,p-Xylenes	106	15.613	15.614	(1.015)	5886	1.00000	1.5870
	60 o-Xylene	106	16.112	16.118	(1.047)	2538	0.50000	1.0865
	61 Styrene	104	16.143	16.137	(1.049)	3581	0.50000	1.1974
	62 Bromoform	173	16.435	16.435	(1.068)	1256	0.50000	0.4092(a)
	63 Isopropylbenzene	105	16.520	16.514	(0.913)	5623	0.50000	1.1432
	64 Cyclohexanone	55	16.769	16.751	(0.926)	2536	5.00000	15.7183(A)
$	65 Bromofluorobenzene	95	16.775	16.776	(0.927)	387572	50.0000	48.6003
	66 1,1,2,2-Tetrachloroethane	83	16.909	16.909	(0.934)	3495	0.50000	0.4981(a)
	67 Bromobenzene	156	16.988	16.982	(0.938)	2576	0.50000	0.4333(a)
	68 Propylbenzene	91	16.988	16.988	(0.938)	10095	0.50000	0.4004(a)
	69 1,2,3-Trichloropropane	75	17.006	17.007	(0.940)	3436	0.50000	0.4846(a)
	70 2-Chlorotoluene	91	17.165	17.165	(0.948)	7373	0.50000	0.4048(a)
	71 1,3,5-Trimethylbenzene	105	17.177	17.171	(0.949)	5632	0.50000	0.7934
	72 4-Chlorotoluene	91	17.280	17.280	(0.955)	6411	0.50000	0.3882(a)
	73 tert-Butylbenzene	119	17.548	17.548	(0.969)	4735	0.50000	1.0878
	74 1,2,4-Trimethylbenzene	105	17.609	17.609	(0.973)	5191	0.50000	0.7769
	75 sec-Butylbenzene	105	17.797	17.798	(0.983)	6807	0.50000	1.0357
	76 para-Isopropyl Toluene	119	17.937	17.937	(0.991)	5289	0.50000	1.0762
	77 1,3-Dichlorobenzene	146	18.022	18.023	(0.996)	5143	0.50000	0.4367(a)
*	78 1,4-Dichlorobenzene-d4	152	18.102	18.102	(1.000)	425537	50.0000	
	79 1,4-Dichlorobenzene	146	18.126	18.132	(1.001)	6857	0.50000	0.5166

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC809.D
Report Date: 09-Mar-2006 09:21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
80 n-Butylbenzene	91	18.418	18.418	(1.017)	6560	0.50000	1.1279
81 1,2-Dichlorobenzene	146	18.600	18.595	(1.028)	5177	0.50000	0.4532(a)
82 1,2-Dibromo-3-Chloropropane	75	19.580	19.580	(1.082)	358	0.50000	0.5687
83 1,2,4-Trichlorobenzene	180	20.687	20.693	(1.143)	3453	0.50000	0.4332(a)
84 Hexachlorobutadiene	225	20.815	20.815	(1.150)	1268	0.50000	0.3977(a)
85 Naphthalene	128	21.125	21.125	(1.167)	4993	0.50000	1.0378
86 1,2,3-Trichlorobenzene	180	21.508	21.515	(1.188)	2875	0.50000	0.3581(aM)

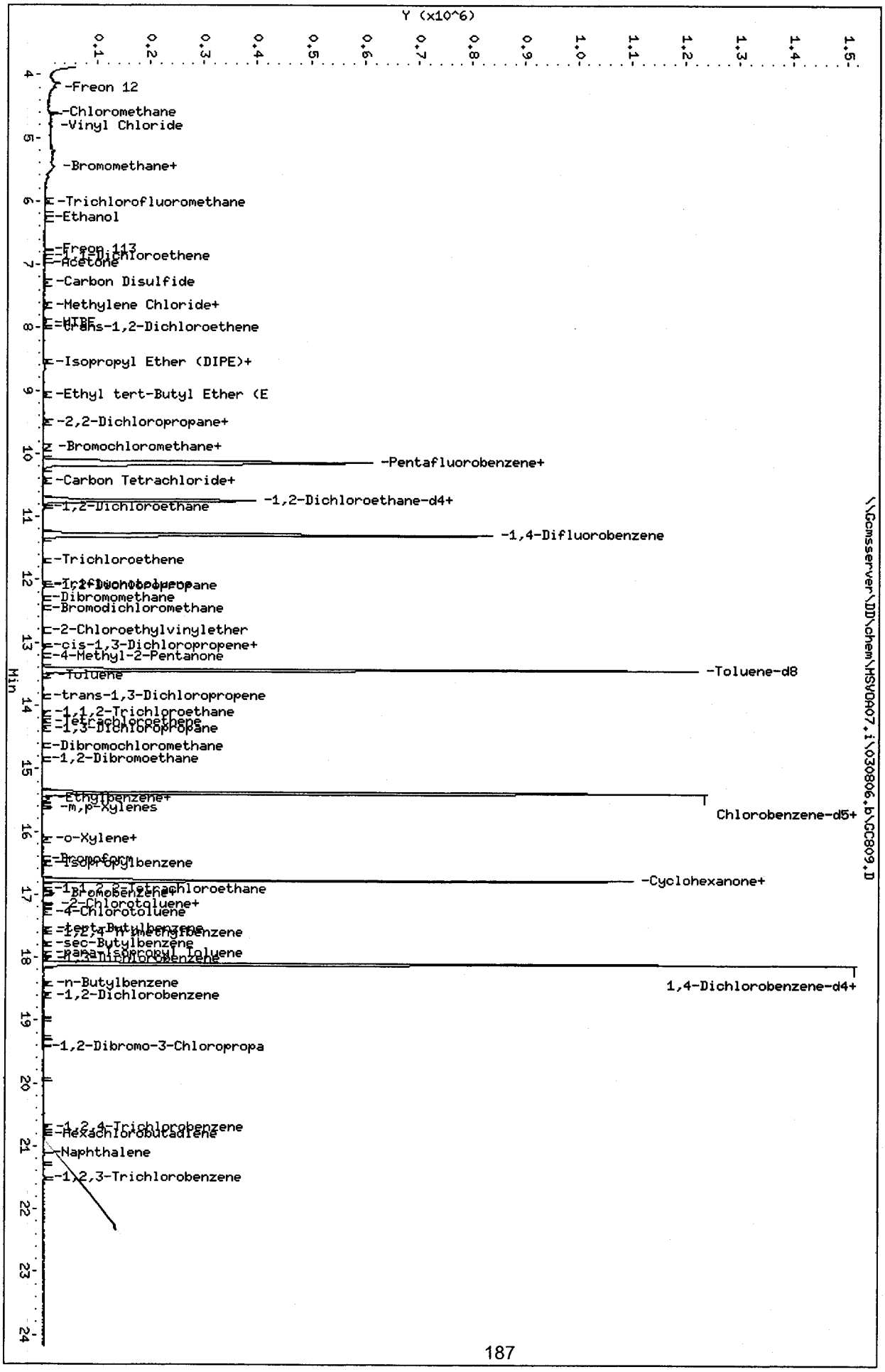
LW 3-9-06

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\HSVOA07.i\030806.b\GC809.D
Date : 08-MAR-2006 14:03
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.001/1000,S2783,0.002/1000,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: HSVOA07.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC810.D
Report Date: 09-Mar-2006 09:21

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC810.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 08-MAR-2006 14:34 MS Autotune Date: 10-JAN-2006 07:50
Operator : LW Inst ID: MSVOA07.i
Smp Info : ICAL,S2844,0.002/500,S2783,0.002/500,
Misc Info : S2410,0.001/500,2 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\826GOX7.m
Meth Date : 09-Mar-2006 09:04 target Quant Type: ISTD
Cal Date : 08-MAR-2006 14:34 Cal File: GC810.D
Als bottle: 10 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.207	4.201	(0.415)	13976	2.00000	2.0627(M)
2 Chloromethane	50	4.620	4.614	(0.456)	21216	2.00000	2.0408
3 Vinyl Chloride	62	4.815	4.815	(0.475)	17440	2.00000	2.6564(M)
4 Bromomethane	94	5.466	5.466	(0.539)	10734	2.00000	1.9580
5 Chloroethane	64	5.630	5.630	(0.556)	10851	2.00000	2.2506(M)
6 Trichlorofluoromethane	101	6.014	6.008	(0.594)	17605	2.00000	2.1369
7 Ethanol	45	6.269	6.269	(0.619)	13258	200.000	199.1735(A)
8 Freon 113	101	6.780	6.774	(0.669)	9752	2.00000	2.3551
9 1,1-Dichloroethene	96	6.871	6.871	(0.678)	7644	2.00000	2.1954
10 Acetone	43	6.981	6.969	(0.689)	5370	2.00000	2.6052(M)
11 Isopropanol	45	7.060	7.048	(0.697)	5388	20.0000	20.3856(A)
12 Carbon Disulfide	76	7.285	7.285	(0.719)	42496	2.00000	2.3950
13 Methylene Chloride	84	7.638	7.638	(0.754)	12533	2.00000	2.2552
14 tert-Butyl Alcohol (TBA)	59	7.632	7.632	(0.753)	6117	20.0000	17.2003(A)
15 MTBE	73	7.918	7.912	(0.781)	23440	2.00000	2.2624(M)
16 trans-1,2-Dichloroethene	96	7.991	7.985	(0.789)	10394	2.00000	2.1217
17 Isopropyl Ether (DIPE)	45	8.544	8.538	(0.843)	27317	2.00000	2.2623(A)
18 Vinyl Acetate	43	8.605	8.605	(0.849)	18709	2.00000	1.7137
19 1,1-Dichloroethane	63	8.654	8.660	(0.854)	22106	2.00000	2.1076
20 Ethyl tert-Butyl Ether (ETBE)	59	9.067	9.068	(0.895)	20669	2.00000	2.2679(A)
21 2-Butanone	43	9.469	9.469	(0.935)	4958	2.00000	1.8823
22 2,2-Dichloropropane	77	9.481	9.487	(0.936)	14428	2.00000	2.1722

LW 3/9/06

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC810.D
Report Date: 09-Mar-2006 09:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.505	9.500	(0.938)	9863	2.00000	1.9593
	24 Bromochloromethane	128	9.877	9.871	(0.975)	5995	2.00000	2.2505
	25 Tetrahydrofuran	42	9.883	9.877	(0.975)	28565	20.0000	19.6581(A)
	26 Chloroform	83	9.919	9.913	(0.979)	21106	2.00000	2.1611
*	27 Pentafluorobenzene	168	10.132	10.126	(1.000)	465946	50.0000	
$	28 Dibromofluoromethane	113	10.163	10.163	(1.003)	257811	50.0000	51.2946
	29 1,1,1-Trichloroethane	97	10.217	10.211	(1.008)	17941	2.00000	2.2937
	30 Carbon Tetrachloride	117	10.430	10.424	(0.925)	13845	2.00000	2.1900
	31 1,1-Dichloropropene	75	10.442	10.443	(0.926)	12040	2.00000	1.9887
$	32 1,2-Dichloroethane-d4	65	10.734	10.735	(0.951)	374071	50.0000	51.0300
	33 Benzene	78	10.765	10.765	(0.954)	48097	2.00000	2.0994
	34 Methyl tert-Amyl Ether (TAME)	73	10.771	10.771	(0.955)	23115	2.00000	2.1605(A)
	35 1,2-Dichloroethane	62	10.850	10.850	(0.962)	18463	2.00000	2.1055
*	36 1,4-Difluorobenzene	114	11.282	11.282	(1.000)	811196	50.0000	
	37 Trichloroethene	95	11.696	11.696	(1.037)	10492	2.00000	2.1948
$	38 Trifluorotoluene	146	12.067	12.067	(1.070)	14062	2.00000	2.1571(A)
	39 1,2-Dichloropropane	63	12.109	12.109	(1.073)	11501	2.00000	2.0571
	40 Dibromomethane	93	12.292	12.298	(1.090)	6994	2.00000	2.1223
	41 Bromodichloromethane	83	12.450	12.456	(1.104)	14075	2.00000	2.0948
	42 2-Chloroethylvinylether	63	12.815	12.815	(1.136)	3409	2.00000	2.9839
	43 Tetramethyl THF	43	13.052	13.052	(1.157)	14106	2.00000	2.2905(A)
	44 cis-1,3-Dichloropropene	75	13.089	13.089	(1.160)	12605	2.00000	1.9261
	45 4-Methyl-2-Pentanone	43	13.235	13.229	(1.173)	7871	2.00000	2.9660
$	46 Toluene-d8	98	13.435	13.430	(1.191)	929897	50.0000	49.1634
	47 Toluene	92	13.527	13.527	(1.199)	26823	2.00000	2.0358
	48 trans-1,3-Dichloropropene	75	13.849	13.849	(1.228)	13721	2.00000	1.8258
	49 1,1,2-Trichloroethane	85	14.117	14.117	(1.251)	5517	2.00000	2.0297
	50 Tetrachloroethene	166	14.251	14.251	(0.926)	9868	2.00000	2.2548
	51 2-Hexanone	43	14.348	14.348	(0.933)	4978	2.00000	3.3096
	52 1,3-Dichloropropane	76	14.360	14.366	(0.934)	17275	2.00000	1.9415
	53 Dibromochloromethane	129	14.646	14.640	(0.952)	8650	2.00000	1.9371
	54 1,2-Dibromoethane	107	14.847	14.853	(1.316)	8690	2.00000	1.8744
*	55 Chlorobenzene-d5	117	15.382	15.382	(1.000)	764184	50.0000	
	56 Chlorobenzene	112	15.419	15.419	(1.002)	33192	2.00000	2.1452
	57 Ethylbenzene	91	15.473	15.474	(1.006)	44352	2.00000	1.9147
	58 1,1,1,2-Tetrachloroethane	131	15.504	15.498	(1.008)	10661	2.00000	2.0585(M) LW 3-9-06
	59 m,p-Xylenes	106	15.613	15.614	(1.015)	30882	4.00000	4.0985
	60 o-Xylene	106	16.118	16.118	(1.048)	12388	2.00000	2.1484
	61 Styrene	104	16.137	16.137	(1.049)	19342	2.00000	2.1410
	62 Bromoform	173	16.435	16.435	(1.068)	6033	2.00000	1.9248
	63 Isopropylbenzene	105	16.520	16.514	(0.913)	29185	2.00000	2.2538
	64 Cyclohexanone	55	16.763	16.751	(0.926)	8038	20.0000	25.2024(A)
$	65 Bromofluorobenzene	95	16.775	16.776	(0.927)	409393	50.0000	49.0091
	66 1,1,2,2-Tetrachloroethane	83	16.909	16.909	(0.934)	15054	2.00000	2.0485
	67 Bromobenzene	156	16.982	16.982	(0.938)	13096	2.00000	2.1033
	68 Propylbenzene	91	16.988	16.988	(0.938)	49838	2.00000	1.8872
	69 1,2,3-Trichloropropane	75	17.007	17.007	(0.940)	15530	2.00000	2.0912
	70 2-Chlorotoluene	91	17.165	17.165	(0.948)	36738	2.00000	1.9259
	71 1,3,5-Trimethylbenzene	105	17.171	17.171	(0.949)	30736	2.00000	2.0149
	72 4-Chlorotoluene	91	17.280	17.280	(0.955)	32760	2.00000	1.8941
	73 tert-Butylbenzene	119	17.548	17.548	(0.969)	24545	2.00000	2.2895
	74 1,2,4-Trimethylbenzene	105	17.615	17.609	(0.973)	30686	2.00000	1.9563
	75 sec-Butylbenzene	105	17.797	17.798	(0.983)	39058	2.00000	2.3080
	76 para-Isopropyl Toluene	119	17.937	17.937	(0.991)	30088	2.00000	2.2129

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC810.D
Report Date: 09-Mar-2006 09:21

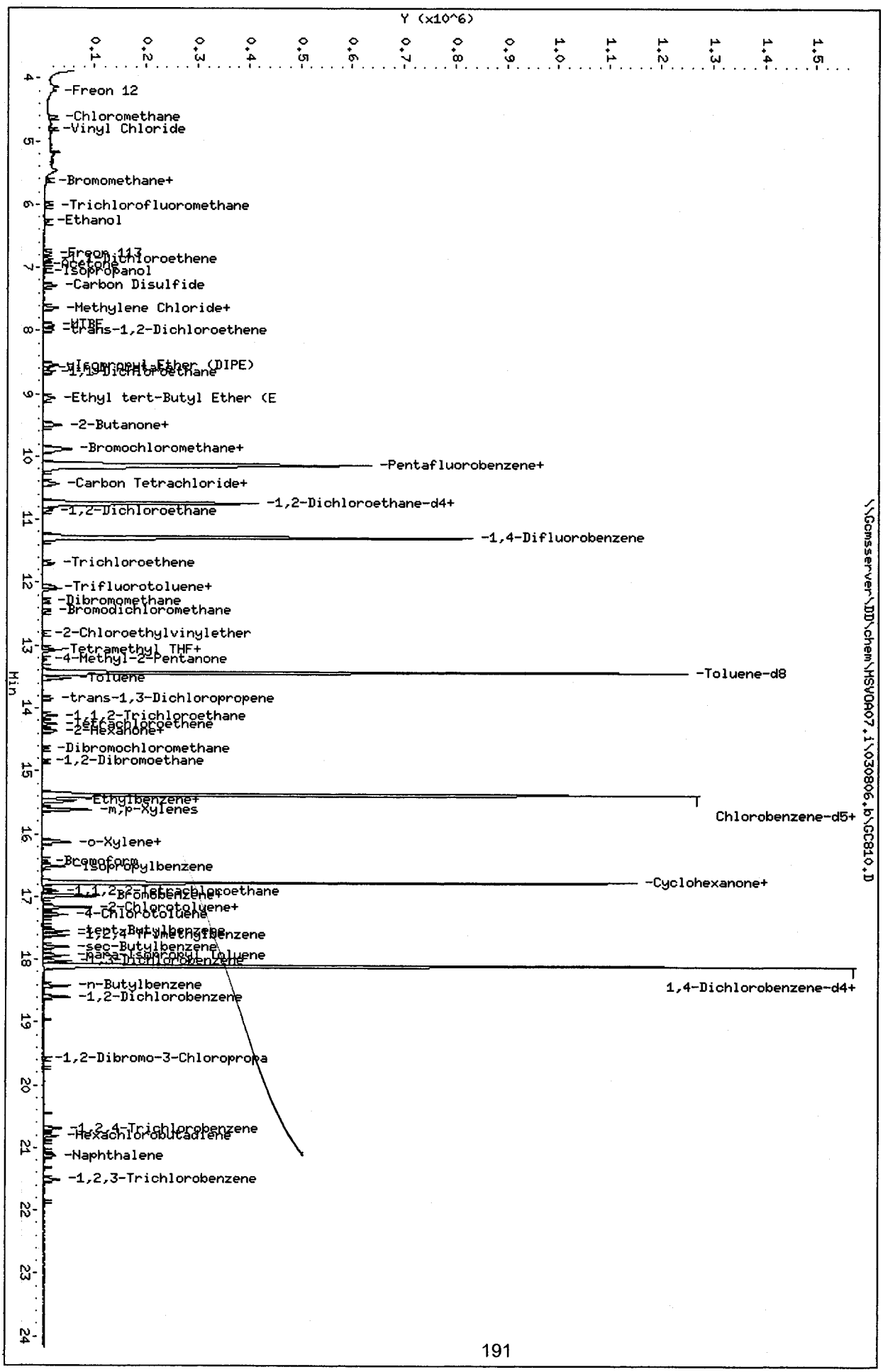
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.029	18.023	(0.996)	25936	2.00000	2.1026
* 78 1,4-Dichlorobenzene-d4	152	18.102	18.102	(1.000)	445746	50.0000	
79 1,4-Dichlorobenzene	146	18.132	18.132	(1.002)	29789	2.00000	2.1427
80 n-Butylbenzene	91	18.418	18.418	(1.017)	32750	2.00000	2.3643
81 1,2-Dichlorobenzene	146	18.600	18.595	(1.028)	24646	2.00000	2.0598
82 1,2-Dibromo-3-Chloropropane	75	19.568	19.580	(1.081)	2913	2.00000	2.3296(M) LW 3-9-06
83 1,2,4-Trichlorobenzene	180	20.693	20.693	(1.143)	14524	2.00000	1.7397
84 Hexachlorobutadiene	225	20.815	20.815	(1.150)	7806	2.00000	2.3376
85 Naphthalene	128	21.131	21.125	(1.167)	26855	2.00000	1.9701
86 1,2,3-Trichlorobenzene	180	21.508	21.515	(1.188)	14739	2.00000	1.7527

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA07.i\030806.b\GC810.D
Date : 08-MAR-2006 14:34
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.002/500,S2783,0.002/500,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA07.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC811.D
Report Date: 09-Mar-2006 09:21

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC811.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 08-MAR-2006 15:05 MS Autotune Date: 10-JAN-2006 07:50
Operator : LW Inst ID: MSVOA07.i
Smp Info : ICAL,S2844,0.002/200,S2783,0.002/200,
Misc Info : S2410,0.001/200,5 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\826GOX7.m
Meth Date : 09-Mar-2006 09:04 target Quant Type: ISTD
Cal Date : 08-MAR-2006 15:05 Cal File: GC811.D
Als bottle: 11 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.207	4.201	(0.415)	29341	5.00000	4.2119
2 Chloromethane	50	4.621	4.614	(0.456)	45876	5.00000	5.0545
3 Vinyl Chloride	62	4.815	4.815	(0.475)	34783	5.00000	5.1751
4 Bromomethane	94	5.472	5.466	(0.540)	23885	5.00000	5.1081
5 Chloroethane	64	5.636	5.630	(0.556)	25156	5.00000	5.0748
6 Trichlorofluoromethane	101	6.008	6.008	(0.593)	36932	5.00000	4.3602
7 Ethanol	45	6.275	6.269	(0.619)	29186	500.000	426.4557(A)
8 Freon 113	101	6.774	6.774	(0.669)	17665	5.00000	4.1493
9 1,1-Dichloroethene	96	6.878	6.871	(0.679)	16658	5.00000	4.6534
10 Acetone	43	6.975	6.969	(0.688)	11234	5.00000	5.3009
11 Isopropanol	45	7.054	7.048	(0.696)	11016	50.0000	40.5384(A)
12 Carbon Disulfide	76	7.285	7.285	(0.719)	84659	5.00000	4.6406
13 Methylene Chloride	84	7.644	7.638	(0.754)	29672	5.00000	5.1932
14 tert-Butyl Alcohol (TBA)	59	7.632	7.632	(0.753)	15590	50.0000	42.6373(A)
15 MTBE	73	7.912	7.912	(0.781)	59377	5.00000	4.4018
16 trans-1,2-Dichloroethene	96	7.985	7.985	(0.788)	23395	5.00000	4.6448
17 Isopropyl Ether (DIPE)	45	8.544	8.538	(0.843)	70557	5.00000	4.3443(A)
18 Vinyl Acetate	43	8.605	8.605	(0.849)	49818	5.00000	3.8738
19 1,1-Dichloroethane	63	8.660	8.660	(0.855)	52916	5.00000	4.9070
20 Ethyl tert-Butyl Ether (ETBE)	59	9.074	9.068	(0.896)	55108	5.00000	4.4064(A)
21 2-Butanone	43	9.475	9.469	(0.935)	12472	5.00000	4.6055
22 2,2-Dichloropropane	77	9.487	9.487	(0.936)	33054	5.00000	4.8402

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC811.D
Report Date: 09-Mar-2006 09:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.500	9.500	(0.938)	24694	5.00000	4.7713
	24 Bromochloromethane	128	9.871	9.871	(0.974)	13395	5.00000	4.8908
	25 Tetrahydrofuran	42	9.883	9.877	(0.975)	79775	50.0000	43.7885(A)
	26 Chloroform	83	9.913	9.913	(0.978)	49935	5.00000	4.9730
*	27 Pentafluorobenzene	168	10.132	10.126	(1.000)	479060	50.0000	
$	28 Dibromofluoromethane	113	10.163	10.163	(1.003)	260009	50.0000	50.3158
	29 1,1,1-Trichloroethane	97	10.211	10.211	(1.008)	38719	5.00000	4.8148
	30 Carbon Tetrachloride	117	10.424	10.424	(0.924)	28513	5.00000	4.4882
	31 1,1-Dichloropropene	75	10.449	10.443	(0.926)	26556	5.00000	4.3651
$	32 1,2-Dichloroethane-d4	65	10.735	10.735	(0.951)	377849	50.0000	51.2941
	33 Benzene	78	10.765	10.765	(0.954)	112634	5.00000	4.8924
	34 Methyl tert-Amyl Ether (TAME)	73	10.777	10.771	(0.955)	60527	5.00000	4.5482(A)
	35 1,2-Dichloroethane	62	10.850	10.850	(0.962)	44212	5.00000	5.0173
*	36 1,4-Difluorobenzene	114	11.282	11.282	(1.000)	815169	50.0000	
	37 Trichloroethene	95	11.696	11.696	(1.037)	22704	5.00000	4.7264
$	38 Trifluorotoluene	146	12.067	12.067	(1.070)	28925	5.00000	4.4154(A)
	39 1,2-Dichloropropane	63	12.109	12.109	(1.073)	27091	5.00000	4.8221
	40 Dibromomethane	93	12.304	12.298	(1.091)	17294	5.00000	5.2222
	41 Bromodichloromethane	83	12.456	12.456	(1.104)	32863	5.00000	4.8673
	42 2-Chloroethylvinylether	63	12.809	12.815	(1.135)	7853	5.00000	4.4905
	43 Tetramethyl THF	43	13.052	13.052	(1.157)	38069	5.00000	4.2698(A)
	44 cis-1,3-Dichloropropene	75	13.089	13.089	(1.160)	37037	5.00000	4.4924
	45 4-Methyl-2-Pentanone	43	13.235	13.229	(1.173)	20642	5.00000	4.9998
$	46 Toluene-d8	98	13.436	13.430	(1.191)	951972	50.0000	50.0852
	47 Toluene	92	13.527	13.527	(1.199)	63252	5.00000	4.7773
	48 trans-1,3-Dichloropropene	75	13.849	13.849	(1.228)	32818	5.00000	4.3456
	49 1,1,2-Trichloroethane	85	14.117	14.117	(1.251)	13807	5.00000	5.0548
	50 Tetrachloroethene	166	14.251	14.251	(0.926)	20196	5.00000	4.5593
	51 2-Hexanone	43	14.354	14.348	(0.933)	12612	5.00000	5.2545
	52 1,3-Dichloropropane	76	14.366	14.366	(0.934)	42451	5.00000	4.7137
	53 Dibromochloromethane	129	14.640	14.640	(0.952)	21016	5.00000	4.6499
	54 1,2-Dibromoethane	107	14.853	14.853	(1.317)	21628	5.00000	4.6423
*	55 Chlorobenzene-d5	117	15.382	15.382	(1.000)	773485	50.0000	
	56 Chlorobenzene	112	15.419	15.419	(1.002)	77459	5.00000	4.9459
	57 Ethylbenzene	91	15.474	15.474	(1.006)	108286	5.00000	4.6187
	58 1,1,1,2-Tetrachloroethane	131	15.498	15.498	(1.008)	25760	5.00000	4.9141
	59 m,p-Xylenes	106	15.614	15.614	(1.015)	81264	10.0000	9.0806
	60 o-Xylene	106	16.118	16.118	(1.048)	33636	5.00000	4.4015
	61 Styrene	104	16.137	16.137	(1.049)	55851	5.00000	4.2926
	62 Bromoform	173	16.435	16.435	(1.068)	14195	5.00000	4.4744
	63 Isopropylbenzene	105	16.520	16.514	(0.913)	76563	5.00000	4.3702
	64 Cyclohexanone	55	16.757	16.751	(0.926)	36591	50.0000	72.2392(A)
$	65 Bromofluorobenzene	95	16.775	16.776	(0.927)	440692	50.0000	50.7788
	66 1,1,2,2-Tetrachloroethane	83	16.909	16.909	(0.934)	36414	5.00000	4.7696
	67 Bromobenzene	156	16.982	16.982	(0.938)	30693	5.00000	4.7447
	68 Propylbenzene	91	16.988	16.988	(0.939)	125611	5.00000	4.5782
	69 1,2,3-Trichloropropane	75	17.001	17.007	(0.939)	38167	5.00000	4.9469
	70 2-Chlorotoluene	91	17.165	17.165	(0.948)	94733	5.00000	4.7802
	71 1,3,5-Trimethylbenzene	105	17.171	17.171	(0.949)	86423	5.00000	4.5882
	72 4-Chlorotoluene	91	17.287	17.280	(0.955)	88075	5.00000	4.9016
	73 tert-Butylbenzene	119	17.548	17.548	(0.969)	61835	5.00000	4.4294
	74 1,2,4-Trimethylbenzene	105	17.615	17.609	(0.973)	89827	5.00000	4.5557
	75 sec-Butylbenzene	105	17.798	17.798	(0.983)	95065	5.00000	4.3929
	76 para-Isopropyl Toluene	119	17.937	17.937	(0.991)	81999	5.00000	4.4679

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC811.D
Report Date: 09-Mar-2006 09:21

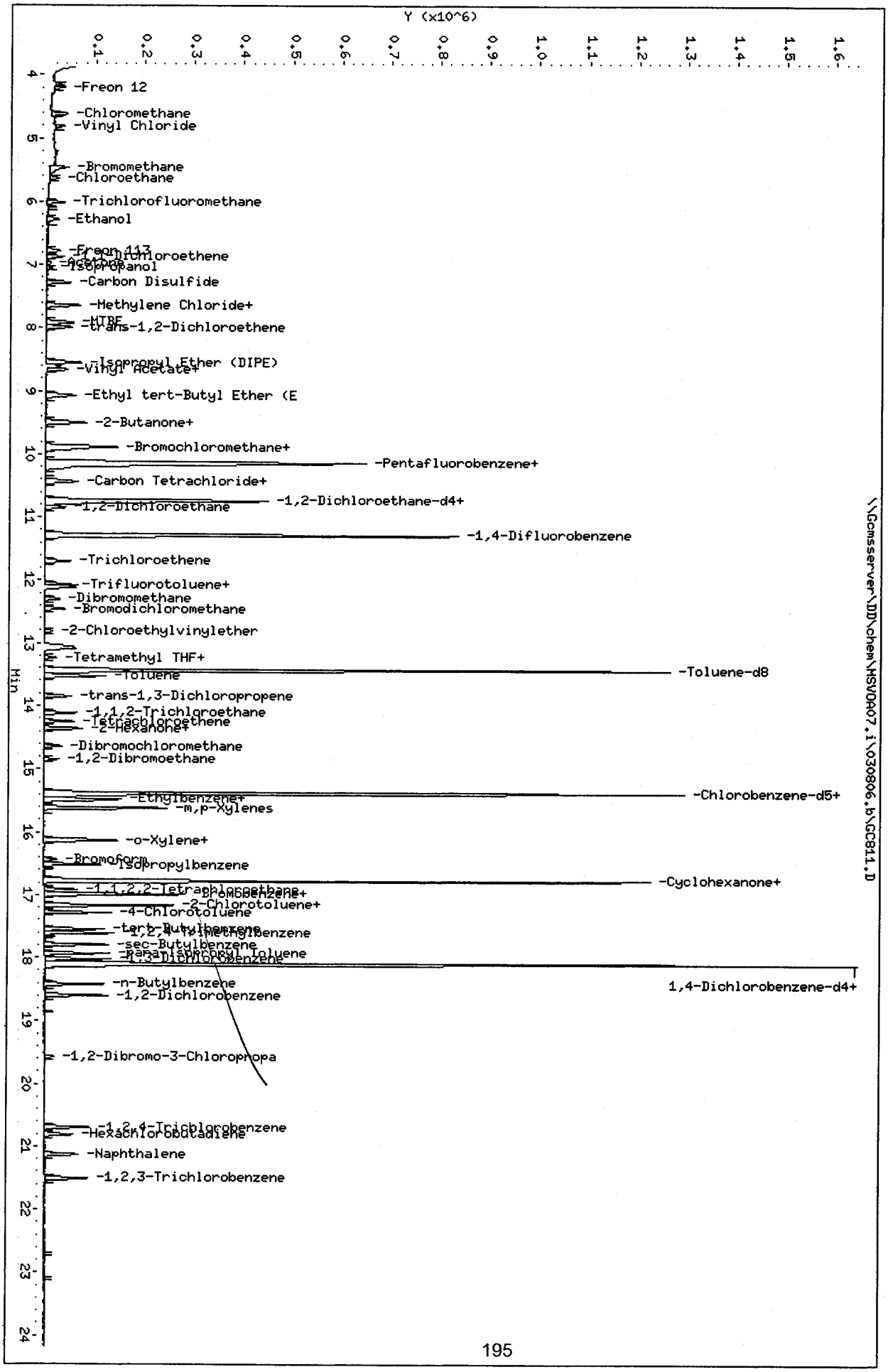
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.023	18.023	(0.996)	63333	5.00000	4.9419
* 78 1,4-Dichlorobenzene-d4	152	18.102	18.102	(1.000)	463102	50.0000	
79 1,4-Dichlorobenzene	146	18.132	18.132	(1.002)	72337	5.00000	5.0082
80 n-Butylbenzene	91	18.418	18.418	(1.017)	78334	5.00000	4.3964
81 1,2-Dichlorobenzene	146	18.594	18.595	(1.027)	60168	5.00000	4.8401
82 1,2-Dibromo-3-Chloropropane	75	19.580	19.580	(1.082)	6999	5.00000	4.9712
83 1,2,4-Trichlorobenzene	180	20.693	20.693	(1.143)	38006	5.00000	4.3818
84 Hexachlorobutadiene	225	20.815	20.815	(1.150)	16682	5.00000	4.8084
85 Naphthalene	128	21.131	21.125	(1.167)	81024	5.00000	4.1610
86 1,2,3-Trichlorobenzene	180	21.509	21.515	(1.188)	41132	5.00000	4.7081

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Gcmsserver\DD\chem\HSVOA07.i\030806.b\GC811.D
Date : 08-MAR-2006 15:05
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.002/200,S2783,0.002/200,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: HSVOA07.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC812.D
Report Date: 09-Mar-2006 09:22

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC812.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 08-MAR-2006 15:36 MS Autotune Date: 10-JAN-2006 07:50
Operator : LW Inst ID: MSVOA07.i
Smp Info : ICAL,S2844,0.002/100,S2783,0.002/100,
Misc Info : S2410,0.001/100,10 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\826GOX7.m
Meth Date : 09-Mar-2006 09:04 target Quant Type: ISTD
Cal Date : 08-MAR-2006 15:36 Cal File: GC812.D
Als bottle: 12 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.207	4.201	(0.415)	76155	10.0000	10.6188
2 Chloromethane	50	4.620	4.614	(0.456)	95101	10.0000	10.8925
3 Vinyl Chloride	62	4.815	4.815	(0.476)	78729	10.0000	11.4061
4 Bromomethane	94	5.466	5.466	(0.540)	47425	10.0000	10.5529
5 Chloroethane	64	5.630	5.630	(0.556)	50285	10.0000	9.8535(M) LW 3-9-06
6 Trichlorofluoromethane	101	6.007	6.008	(0.593)	93498	10.0000	10.7222
7 Ethanol	45	6.269	6.269	(0.619)	69019	1000.00	979.5846(A)
8 Freon 113	101	6.774	6.774	(0.669)	52274	10.0000	11.9268
9 1,1-Dichloroethene	96	6.877	6.871	(0.679)	38914	10.0000	10.5592
10 Acetone	43	6.969	6.969	(0.688)	20782	10.0000	9.5253
11 Isopropanol	45	7.048	7.048	(0.696)	26437	100.000	94.4995(A)
12 Carbon Disulfide	76	7.285	7.285	(0.719)	191034	10.0000	10.1715
13 Methylene Chloride	84	7.644	7.638	(0.755)	59914	10.0000	10.1857
14 tert-Butyl Alcohol (TBA)	59	7.638	7.632	(0.754)	34603	100.000	91.9246(A)
15 MTBE	73	7.912	7.912	(0.781)	145198	10.0000	9.3283
16 trans-1,2-Dichloroethene	96	7.985	7.985	(0.789)	53290	10.0000	10.2770
17 Isopropyl Ether (DIPE)	45	8.544	8.538	(0.844)	175844	10.0000	9.2454(A)
18 Vinyl Acetate	43	8.605	8.605	(0.850)	133079	10.0000	9.4854
19 1,1-Dichloroethane	63	8.660	8.660	(0.855)	113015	10.0000	10.1799
20 Ethyl tert-Butyl Ether (ETBE)	59	9.067	9.068	(0.895)	134087	10.0000	9.1299(A)
21 2-Butanone	43	9.475	9.469	(0.936)	27017	10.0000	9.6908
22 2,2-Dichloropropane	77	9.487	9.487	(0.937)	75785	10.0000	10.7795

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC812.D
Report Date: 09-Mar-2006 09:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.505	9.500	(0.939)	53963	10.0000	10.1278
	24 Bromochloromethane	128	9.870	9.871	(0.975)	29124	10.0000	10.3292
	25 Tetrahydrofuran	42	9.877	9.877	(0.975)	199480	100.000	98.3574(A)
	26 Chloroform	83	9.913	9.913	(0.979)	107164	10.0000	10.3667
*	27 Pentafluorobenzene	168	10.126	10.126	(1.000)	493192	50.0000	
$	28 Dibromofluoromethane	113	10.162	10.163	(1.004)	262548	50.0000	49.3513
	29 1,1,1-Trichloroethane	97	10.217	10.211	(1.009)	86493	10.0000	10.4474
	30 Carbon Tetrachloride	117	10.424	10.424	(0.924)	68959	10.0000	10.5862
	31 1,1-Dichloropropene	75	10.442	10.443	(0.926)	65493	10.0000	10.4988
$	32 1,2-Dichloroethane-d4	65	10.734	10.735	(0.951)	379583	50.0000	50.2538
	33 Benzene	78	10.759	10.765	(0.954)	241587	10.0000	10.2339
	34 Methyl tert-Amyl Ether (TAME)	73	10.777	10.771	(0.955)	141638	10.0000	9.4878(A)
	35 1,2-Dichloroethane	62	10.850	10.850	(0.962)	93717	10.0000	10.3720
*	36 1,4-Difluorobenzene	114	11.282	11.282	(1.000)	835862	50.0000	
	37 Trichloroethene	95	11.696	11.696	(1.037)	51318	10.0000	10.4187
$	38 Trifluorotoluene	146	12.067	12.067	(1.070)	72302	10.0000	10.7637(A)
	39 1,2-Dichloropropane	63	12.109	12.109	(1.073)	59755	10.0000	10.3729
	40 Dibromomethane	93	12.298	12.298	(1.090)	36650	10.0000	10.7931
	41 Bromodichloromethane	83	12.456	12.456	(1.104)	71830	10.0000	10.3754
	42 2-Chloroethylvinylether	63	12.821	12.815	(1.136)	19480	10.0000	8.2466
	43 Tetramethyl THF	43	13.052	13.052	(1.157)	98226	10.0000	9.0306(A)
	44 cis-1,3-Dichloropropene	75	13.089	13.089	(1.160)	89616	10.0000	9.7874
	45 4-Methyl-2-Pentanone	43	13.229	13.229	(1.173)	51780	10.0000	9.7390
$	46 Toluene-d8	98	13.429	13.430	(1.190)	989750	50.0000	50.7837
	47 Toluene	92	13.527	13.527	(1.199)	138790	10.0000	10.2231
	48 trans-1,3-Dichloropropene	75	13.855	13.849	(1.228)	76046	10.0000	9.8205
	49 1,1,2-Trichloroethane	85	14.117	14.117	(1.251)	28993	10.0000	10.3517
	50 Tetrachloroethene	166	14.251	14.251	(0.926)	48872	10.0000	10.7348
	51 2-Hexanone	43	14.348	14.348	(0.933)	30319	10.0000	9.5502
	52 1,3-Dichloropropane	76	14.366	14.366	(0.934)	97265	10.0000	10.5082
	53 Dibromochloromethane	129	14.640	14.640	(0.952)	45913	10.0000	9.8839
	54 1,2-Dibromoethane	107	14.853	14.853	(1.317)	48458	10.0000	10.1438
*	55 Chlorobenzene-d5	117	15.382	15.382	(1.000)	794980	50.0000	
	56 Chlorobenzene	112	15.419	15.419	(1.002)	162925	10.0000	10.1219
	57 Ethylbenzene	91	15.473	15.474	(1.006)	252387	10.0000	10.4739
	58 1,1,1,2-Tetrachloroethane	131	15.498	15.498	(1.008)	54748	10.0000	10.1617
	59 m,p-Xylenes	106	15.613	15.614	(1.015)	199358	20.0000	20.2753
	60 o-Xylene	106	16.118	16.118	(1.048)	84120	10.0000	9.5177
	61 Styrene	104	16.137	16.137	(1.049)	147541	10.0000	9.4689
	62 Bromoform	173	16.435	16.435	(1.068)	31702	10.0000	9.7226
	63 Isopropylbenzene	105	16.520	16.514	(0.913)	206556	10.0000	9.8563
	64 Cyclohexanone	55	16.751	16.751	(0.925)	38249	100.000	72.1087(A)
$	65 Bromofluorobenzene	95	16.775	16.776	(0.927)	445960	50.0000	49.0514
	66 1,1,2,2-Tetrachloroethane	83	16.909	16.909	(0.934)	79649	10.0000	9.9587
	67 Bromobenzene	156	16.982	16.982	(0.938)	69787	10.0000	10.2981
	68 Propylbenzene	91	16.988	16.988	(0.938)	308816	10.0000	10.7443
	69 1,2,3-Trichloropropane	75	17.007	17.007	(0.940)	83422	10.0000	10.3214
	70 2-Chlorotoluene	91	17.165	17.165	(0.948)	220952	10.0000	10.6427
	71 1,3,5-Trimethylbenzene	105	17.171	17.171	(0.949)	217343	10.0000	10.2758
	72 4-Chlorotoluene	91	17.286	17.280	(0.955)	197189	10.0000	10.4756
	73 tert-Butylbenzene	119	17.548	17.548	(0.969)	165681	10.0000	10.0658
	74 1,2,4-Trimethylbenzene	105	17.615	17.609	(0.973)	225356	10.0000	10.1493
	75 sec-Butylbenzene	105	17.797	17.798	(0.983)	264366	10.0000	10.3770
	76 para-Isopropyl Toluene	119	17.937	17.937	(0.991)	222285	10.0000	10.2139

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC812.D
Report Date: 09-Mar-2006 09:22

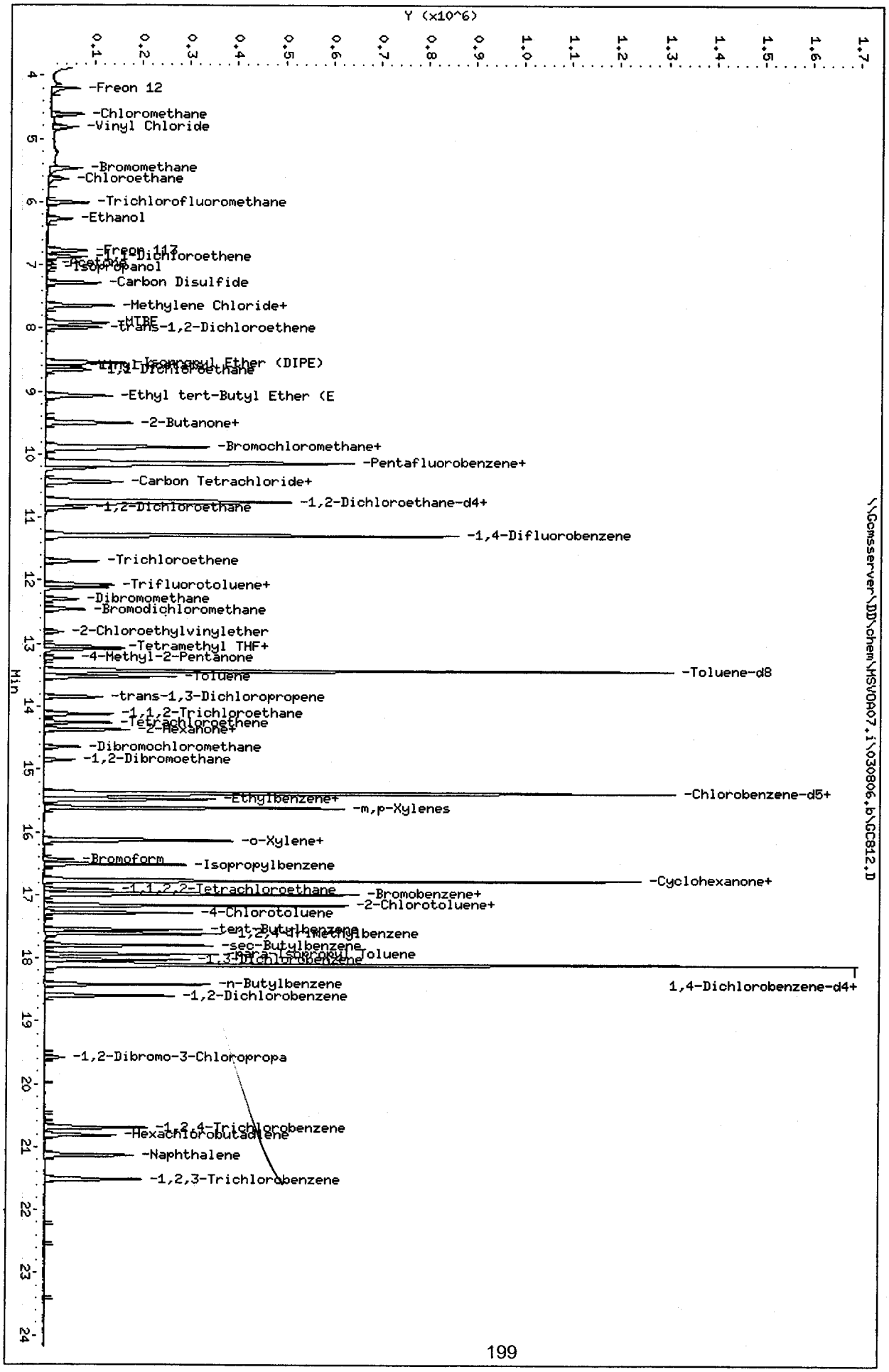
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.029	18.023	(0.996)	140233	10.0000	10.4455
* 78 1,4-Dichlorobenzene-d4	152	18.102	18.102	(1.000)	485141	50.0000	
79 1,4-Dichlorobenzene	146	18.132	18.132	(1.002)	150021	10.0000	9.9148
80 n-Butylbenzene	91	18.418	18.418	(1.017)	215528	10.0000	10.2016
81 1,2-Dichlorobenzene	146	18.600	18.595	(1.028)	134709	10.0000	10.3443
82 1,2-Dibromo-3-Chloropropane	75	19.580	19.580	(1.082)	15675	10.0000	10.2262
83 1,2,4-Trichlorobenzene	180	20.693	20.693	(1.143)	92225	10.0000	10.1498
84 Hexachlorobutadiene	225	20.815	20.815	(1.150)	39100	10.0000	10.7582
85 Naphthalene	128	21.131	21.125	(1.167)	219054	10.0000	9.3644
86 1,2,3-Trichlorobenzene	180	21.514	21.515	(1.189)	94722	10.0000	10.3496

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC812.D
Date : 08-MAR-2006 15:36
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.002/100,S2783,0.002/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA07.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC813.D
Report Date: 09-Mar-2006 09:22

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC813.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 08-MAR-2006 16:07 MS Autotune Date: 10-JAN-2006 07:50
Operator : LW Inst ID: MSVOA07.i
Smp Info : ICAL,S2844,0.004/100,S2783,0.004/100,
Misc Info : S2410,0.002/100,20 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\826GOX7.m
Meth Date : 09-Mar-2006 09:04 target Quant Type: ISTD
Cal Date : 08-MAR-2006 16:07 Cal File: GC813.D
Als bottle: 13 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.207	4.201	(0.415)	131497	20.0000	17.6507
2 Chloromethane	50	4.614	4.614	(0.456)	179231	20.0000	20.3758
3 Vinyl Chloride	62	4.815	4.815	(0.476)	140317	20.0000	19.5865
4 Bromomethane	94	5.466	5.466	(0.540)	91767	20.0000	20.3299
5 Chloroethane	64	5.630	5.630	(0.556)	96474	20.0000	18.1983(M) LW 3-9-06
6 Trichlorofluoromethane	101	6.008	6.008	(0.593)	160734	20.0000	17.7442
7 Ethanol	45	6.269	6.269	(0.619)	148592	2000.00	2030.1899(A)
8 Freon 113	101	6.774	6.774	(0.669)	90371	20.0000	19.8489
9 1,1-Dichloroethene	96	6.871	6.871	(0.679)	74902	20.0000	19.5654
10 Acetone	43	6.969	6.969	(0.688)	40443	20.0000	17.8445
11 Isopropanol	45	7.048	7.048	(0.696)	58335	200.000	200.7310(A)
12 Carbon Disulfide	76	7.285	7.285	(0.719)	364159	20.0000	18.6653
13 Methylene Chloride	84	7.638	7.638	(0.754)	120850	20.0000	19.7778
14 tert-Butyl Alcohol (TBA)	59	7.632	7.632	(0.754)	78592	200.000	200.9853(A)
15 MTBE	73	7.912	7.912	(0.781)	328063	20.0000	19.2165
16 trans-1,2-Dichloroethene	96	7.985	7.985	(0.789)	107127	20.0000	19.8879
17 Isopropyl Ether (DIPE)	45	8.544	8.538	(0.844)	398139	20.0000	19.0386(A)
18 Vinyl Acetate	43	8.605	8.605	(0.850)	296469	20.0000	19.9354
19 1,1-Dichloroethane	63	8.660	8.660	(0.855)	225916	20.0000	19.5896
20 Ethyl tert-Butyl Ether (ETBE)	59	9.068	9.068	(0.895)	309926	20.0000	19.0581(A)
21 2-Butanone	43	9.469	9.469	(0.935)	55612	20.0000	19.2025
22 2,2-Dichloropropane	77	9.487	9.487	(0.937)	141062	20.0000	19.3150

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC813.D
Report Date: 09-Mar-2006 09:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.500	9.500	(0.938)	114540	20.0000	20.6940
	24 Bromochloromethane	128	9.871	9.871	(0.975)	58577	20.0000	19.9992
	25 Tetrahydrofuran	42	9.877	9.877	(0.975)	431123	200.000	198.5844(A)
	26 Chloroform	83	9.913	9.913	(0.979)	212107	20.0000	19.7522
*	27 Pentafluorobenzene	168	10.126	10.126	(1.000)	512328	50.0000	
$	28 Dibromofluoromethane	113	10.163	10.163	(1.004)	269851	50.0000	48.8294
	29 1,1,1-Trichloroethane	97	10.211	10.211	(1.008)	161631	20.0000	18.7940
	30 Carbon Tetrachloride	117	10.418	10.424	(0.923)	126408	20.0000	18.6551
	31 1,1-Dichloropropene	75	10.442	10.443	(0.926)	126191	20.0000	19.4468
$	32 1,2-Dichloroethane-d4	65	10.734	10.735	(0.951)	391330	50.0000	49.8057
	33 Benzene	78	10.759	10.765	(0.954)	478444	20.0000	19.4837
	34 Methyl tert-Amyl Ether (TAME)	73	10.777	10.771	(0.955)	312721	20.0000	19.2430(A)
	35 1,2-Dichloroethane	62	10.850	10.850	(0.962)	186296	20.0000	19.8208
*	36 1,4-Difluorobenzene	114	11.282	11.282	(1.000)	869484	50.0000	
	37 Trichloroethene	95	11.696	11.696	(1.037)	98715	20.0000	19.2664
$	38 Trifluorotoluene	146	12.073	12.067	(1.070)	136270	20.0000	19.5023(A)
	39 1,2-Dichloropropane	63	12.109	12.109	(1.073)	125072	20.0000	20.8718
	40 Dibromomethane	93	12.298	12.298	(1.090)	74288	20.0000	21.0312
	41 Bromodichloromethane	83	12.456	12.456	(1.104)	146316	20.0000	20.3172
	42 2-Chloroethylvinylether	63	12.815	12.815	(1.136)	50279	20.0000	17.4996
	43 Tetramethyl THF	43	13.052	13.052	(1.157)	231509	20.0000	18.9339(A)
	44 cis-1,3-Dichloropropene	75	13.089	13.089	(1.160)	193571	20.0000	19.6493
	45 4-Methyl-2-Pentanone	43	13.229	13.229	(1.173)	117159	20.0000	19.0334
$	46 Toluene-d8	98	13.430	13.430	(1.190)	1032275	50.0000	50.9175
	47 Toluene	92	13.527	13.527	(1.199)	278796	20.0000	19.7416
	48 trans-1,3-Dichloropropene	75	13.849	13.849	(1.228)	165887	20.0000	20.5942
	49 1,1,2-Trichloroethane	85	14.117	14.117	(1.251)	57254	20.0000	19.6516
	50 Tetrachloroethene	166	14.251	14.251	(0.926)	90934	20.0000	19.2894
	51 2-Hexanone	43	14.348	14.348	(0.933)	70497	20.0000	18.6994
	52 1,3-Dichloropropane	76	14.366	14.366	(0.934)	206400	20.0000	21.5348
	53 Dibromochloromethane	129	14.640	14.640	(0.952)	98087	20.0000	20.3922
	54 1,2-Dibromoethane	107	14.853	14.853	(1.317)	102321	20.0000	20.5908
*	55 Chlorobenzene-d5	117	15.382	15.382	(1.000)	823187	50.0000	
	56 Chlorobenzene	112	15.419	15.419	(1.002)	324442	20.0000	19.4657
	57 Ethylbenzene	91	15.474	15.474	(1.006)	514021	20.0000	20.6007
	58 1,1,1,2-Tetrachloroethane	131	15.498	15.498	(1.008)	112606	20.0000	20.1846
	59 m,p-Xylenes	106	15.614	15.614	(1.015)	411161	40.0000	39.2739
	60 o-Xylene	106	16.118	16.118	(1.048)	188090	20.0000	19.4556
	61 Styrene	104	16.137	16.137	(1.049)	331259	20.0000	19.2669
	62 Bromoform	173	16.435	16.435	(1.068)	66486	20.0000	19.6917
	63 Isopropylbenzene	105	16.520	16.514	(0.913)	437428	20.0000	18.9728
	64 Cyclohexanone	55	16.751	16.751	(0.925)	103491	200.000	164.3855(A)
$	65 Bromofluorobenzene	95	16.775	16.776	(0.927)	480986	50.0000	50.6820
	66 1,1,2,2-Tetrachloroethane	83	16.909	16.909	(0.934)	162804	20.0000	19.5009
	67 Bromobenzene	156	16.982	16.982	(0.938)	142308	20.0000	20.1177
	68 Propylbenzene	91	16.988	16.988	(0.938)	620033	20.0000	20.6661
	69 1,2,3-Trichloropropane	75	17.007	17.007	(0.940)	169500	20.0000	20.0906
	70 2-Chlorotoluene	91	17.165	17.165	(0.948)	451420	20.0000	20.8306
	71 1,3,5-Trimethylbenzene	105	17.171	17.171	(0.949)	445215	20.0000	19.5706
	72 4-Chlorotoluene	91	17.287	17.280	(0.955)	413217	20.0000	21.0300
	73 tert-Butylbenzene	119	17.548	17.548	(0.969)	340315	20.0000	18.9141
	74 1,2,4-Trimethylbenzene	105	17.609	17.609	(0.973)	475086	20.0000	19.8522
	75 sec-Butylbenzene	105	17.798	17.798	(0.983)	520287	20.0000	18.7890
	76 para-Isopropyl Toluene	119	17.937	17.937	(0.991)	448558	20.0000	18.8432

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC813.D
Report Date: 09-Mar-2006 09:22

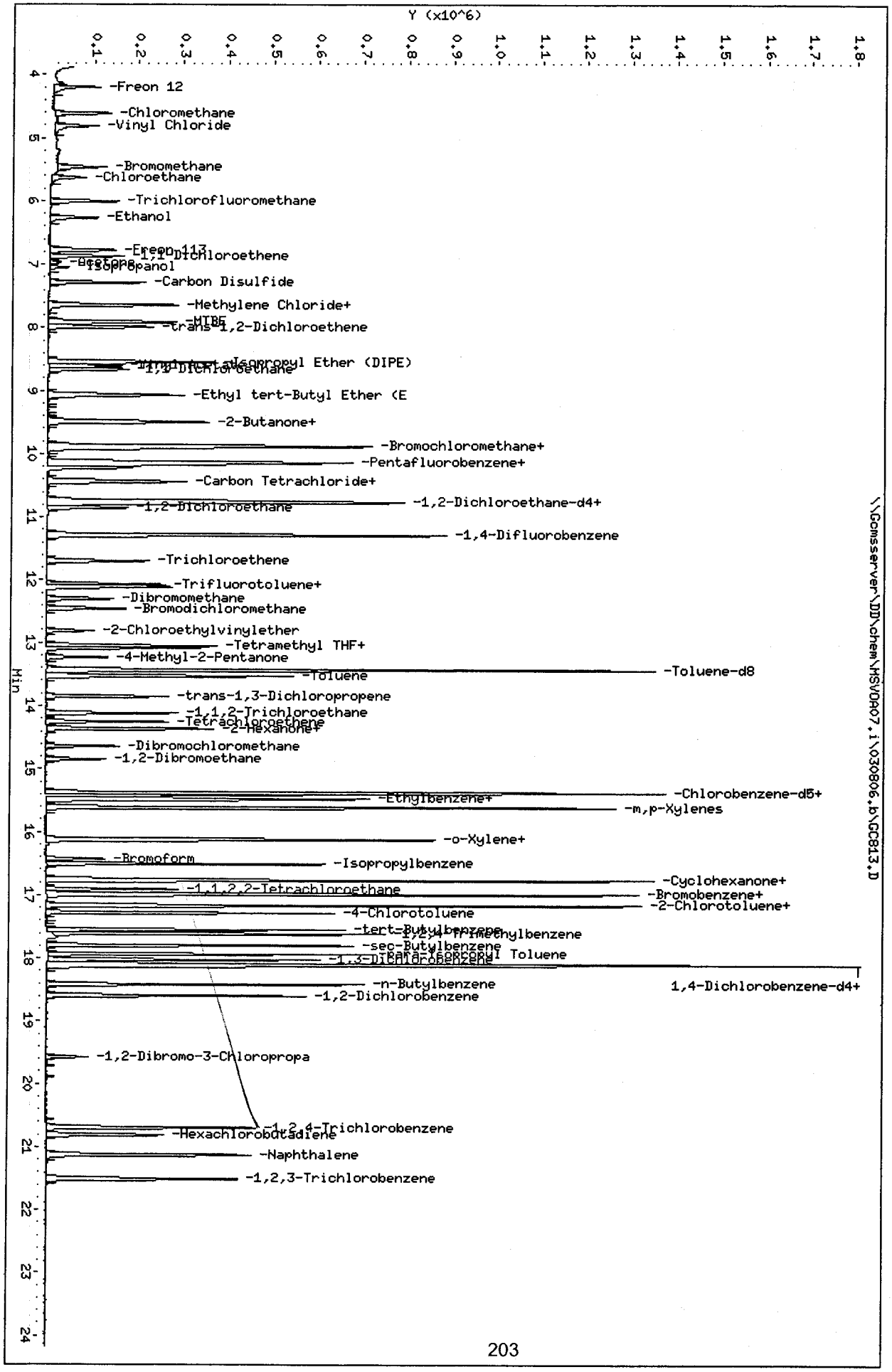
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.029	18.023	(0.996)	282076	20.0000	20.1284
* 78 1,4-Dichlorobenzene-d4	152	18.102	18.102	(1.000)	506410	50.0000	
79 1,4-Dichlorobenzene	146	18.132	18.132	(1.002)	297173	20.0000	18.8152
80 n-Butylbenzene	91	18.418	18.418	(1.017)	431836	20.0000	18.7177
81 1,2-Dichlorobenzene	146	18.594	18.595	(1.027)	273805	20.0000	20.1424
82 1,2-Dibromo-3-Chloropropane	75	19.574	19.580	(1.081)	30985	20.0000	18.9277
83 1,2,4-Trichlorobenzene	180	20.693	20.693	(1.143)	200384	20.0000	21.1271
84 Hexachlorobutadiene	225	20.815	20.815	(1.150)	70356	20.0000	18.5451
85 Naphthalene	128	21.131	21.125	(1.167)	528459	20.0000	20.1288
86 1,2,3-Trichlorobenzene	180	21.515	21.515	(1.189)	202244	20.0000	21.1698

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\HSVOA07.i\030806.b\GC813.D
Date : 08-MAR-2006 16:07
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.004/100,S2783,0.004/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: HSVOA07.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC814.D
Report Date: 09-Mar-2006 09:22

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC814.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 08-MAR-2006 16:38 MS Autotune Date: 10-JAN-2006 07:50
Operator : LW Inst ID: MSVOA07.i
Smp Info : ICAL,S2844,0.01/100,S2783,0.01/100,
Misc Info : S2410,0.005/100,50 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\826GOX7.m
Meth Date : 09-Mar-2006 09:04 target Quant Type: ISTD
Cal Date : 08-MAR-2006 16:38 Cal File: GC814.D
Als bottle: 14 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.207	4.201	(0.415)	310042	50.0000	39.3295
2 Chloromethane	50	4.614	4.614	(0.456)	430912	50.0000	47.5228
3 Vinyl Chloride	62	4.815	4.815	(0.476)	333294	50.0000	43.9962
4 Bromomethane	94	5.466	5.466	(0.540)	227508	50.0000	48.8346
5 Chloroethane	64	5.630	5.630	(0.556)	238176	50.0000	42.4592
6 Trichlorofluoromethane	101	6.007	6.008	(0.593)	373284	50.0000	38.9440
7 Ethanol	45	6.269	6.269	(0.619)	369104	5000.00	4765.8574(A)
8 Freon 113	101	6.774	6.774	(0.669)	228258	50.0000	47.3789
9 1,1-Dichloroethene	96	6.871	6.871	(0.679)	208336	50.0000	51.4295
10 Acetone	43	6.968	6.969	(0.688)	105357	50.0000	43.9315
11 Isopropanol	45	7.048	7.048	(0.696)	152927	500.000	497.3023(A)
12 Carbon Disulfide	76	7.285	7.285	(0.719)	928581	50.0000	44.9796
13 Methylene Chloride	84	7.638	7.638	(0.754)	309754	50.0000	47.9072
14 tert-Butyl Alcohol (TBA)	59	7.632	7.632	(0.754)	220643	500.000	533.2456(A)
15 MTBE	73	7.911	7.912	(0.781)	949264	50.0000	49.9688
16 trans-1,2-Dichloroethene	96	7.991	7.985	(0.789)	278363	50.0000	48.8374
17 Isopropyl Ether (DIPE)	45	8.544	8.538	(0.844)	1161963	50.0000	50.3269(A)
18 Vinyl Acetate	43	8.605	8.605	(0.850)	821001	50.0000	51.5982
19 1,1-Dichloroethane	63	8.660	8.660	(0.855)	580735	50.0000	47.5891
20 Ethyl tert-Butyl Ether (ETBE)	59	9.067	9.068	(0.895)	911560	50.0000	50.1957(A)
21 2-Butanone	43	9.475	9.469	(0.936)	154608	50.0000	50.4514
22 2,2-Dichloropropane	77	9.487	9.487	(0.937)	379959	50.0000	49.1669

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC814.D
Report Date: 09-Mar-2006 09:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.499	9.500	(0.938)	312400	50.0000	53.3396
	24 Bromochloromethane	128	9.870	9.871	(0.975)	152821	50.0000	49.3084
	25 Tetrahydrofuran	42	9.876	9.877	(0.975)	1154084	500.000	493.8153(A)
	26 Chloroform	83	9.913	9.913	(0.979)	545612	50.0000	48.0170
*	27 Pentafluorobenzene	168	10.126	10.126	(1.000)	542122	50.0000	
$	28 Dibromofluoromethane	113	10.162	10.163	(1.004)	280912	50.0000	48.0373
	29 1,1,1-Trichloroethane	97	10.217	10.211	(1.009)	422446	50.0000	46.4214
	30 Carbon Tetrachloride	117	10.424	10.424	(0.924)	337118	50.0000	47.4157
	31 1,1-Dichloropropene	75	10.442	10.443	(0.926)	357851	50.0000	52.5579
$	32 1,2-Dichloroethane-d4	65	10.734	10.735	(0.951)	408962	50.0000	49.6061
	33 Benzene	78	10.765	10.765	(0.954)	1238882	50.0000	48.0826
	34 Methyl tert-Amyl Ether (TAME)	73	10.777	10.771	(0.955)	897405	50.0000	50.1766(A)
	35 1,2-Dichloroethane	62	10.850	10.850	(0.962)	484227	50.0000	49.1002
*	36 1,4-Difluorobenzene	114	11.282	11.282	(1.000)	912316	50.0000	
	37 Trichloroethene	95	11.695	11.696	(1.037)	267170	50.0000	49.6961
$	38 Trifluorotoluene	146	12.067	12.067	(1.070)	368097	50.0000	50.2072(A)
	39 1,2-Dichloropropane	63	12.109	12.109	(1.073)	345491	50.0000	54.9482
	40 Dibromomethane	93	12.298	12.298	(1.090)	194160	50.0000	52.3868
	41 Bromodichloromethane	83	12.456	12.456	(1.104)	391191	50.0000	51.7701
	42 2-Chloroethylvinylether	63	12.815	12.815	(1.136)	173710	50.0000	49.9564
	43 Tetramethyl THF	43	13.052	13.052	(1.157)	683782	50.0000	50.2027(A)
	44 cis-1,3-Dichloropropene	75	13.089	13.089	(1.160)	532001	50.0000	50.2023
	45 4-Methyl-2-Pentanone	43	13.235	13.229	(1.173)	350025	50.0000	49.5571
$	46 Toluene-d8	98	13.429	13.430	(1.190)	1105790	50.0000	51.9829
	47 Toluene	92	13.527	13.527	(1.199)	751672	50.0000	50.7273
	48 trans-1,3-Dichloropropene	75	13.849	13.849	(1.228)	485637	50.0000	57.4593
	49 1,1,2-Trichloroethane	85	14.117	14.117	(1.251)	155851	50.0000	50.9822
	50 Tetrachloroethene	166	14.251	14.251	(0.926)	244708	50.0000	48.0995
	51 2-Hexanone	43	14.348	14.348	(0.933)	225738	50.0000	48.9735
	52 1,3-Dichloropropane	76	14.366	14.366	(0.934)	556883	50.0000	53.8387
	53 Dibromochloromethane	129	14.640	14.640	(0.952)	275587	50.0000	53.0897
	54 1,2-Dibromoethane	107	14.847	14.853	(1.316)	283023	50.0000	54.2809
*	55 Chlorobenzene-d5	117	15.382	15.382	(1.000)	888382	50.0000	
	56 Chlorobenzene	112	15.419	15.419	(1.002)	853381	50.0000	47.4434
	57 Ethylbenzene	91	15.473	15.474	(1.006)	1417526	50.0000	52.6419
	58 1,1,1,2-Tetrachloroethane	131	15.498	15.498	(1.008)	298417	50.0000	49.5658
	59 m,p-Xylenes	106	15.613	15.614	(1.015)	1133480	100.000	97.7018
	60 o-Xylene	106	16.118	16.118	(1.048)	542124	50.0000	49.2601
	61 Styrene	104	16.136	16.137	(1.049)	967129	50.0000	49.4060
	62 Bromoform	173	16.435	16.435	(1.068)	192163	50.0000	52.7378
	63 Isopropylbenzene	105	16.514	16.514	(0.912)	1299207	50.0000	48.6603
	64 Cyclohexanone	55	16.751	16.751	(0.925)	443680	500.000	518.1794(A)
$	65 Bromofluorobenzene	95	16.775	16.776	(0.927)	529495	50.0000	50.8701
	66 1,1,2,2-Tetrachloroethane	83	16.909	16.909	(0.934)	433928	50.0000	47.3900
	67 Bromobenzene	156	16.982	16.982	(0.938)	378415	50.0000	48.7749
	68 Propylbenzene	91	16.988	16.988	(0.938)	1752669	50.0000	53.2628
	69 1,2,3-Trichloropropane	75	17.006	17.007	(0.940)	445857	50.0000	48.1835
	70 2-Chlorotoluene	91	17.165	17.165	(0.948)	1240458	50.0000	52.1896
	71 1,3,5-Trimethylbenzene	105	17.171	17.171	(0.949)	1251317	50.0000	48.4617
	72 4-Chlorotoluene	91	17.286	17.280	(0.955)	1142237	50.0000	53.0026
	73 tert-Butylbenzene	119	17.548	17.548	(0.969)	1001921	50.0000	48.2085
	74 1,2,4-Trimethylbenzene	105	17.615	17.609	(0.973)	1322479	50.0000	48.7122
	75 sec-Butylbenzene	105	17.797	17.798	(0.983)	1526545	50.0000	47.9485
	76 para-Isopropyl Toluene	119	17.937	17.937	(0.991)	1326788	50.0000	48.1229

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC814.D
Report Date: 09-Mar-2006 09:22

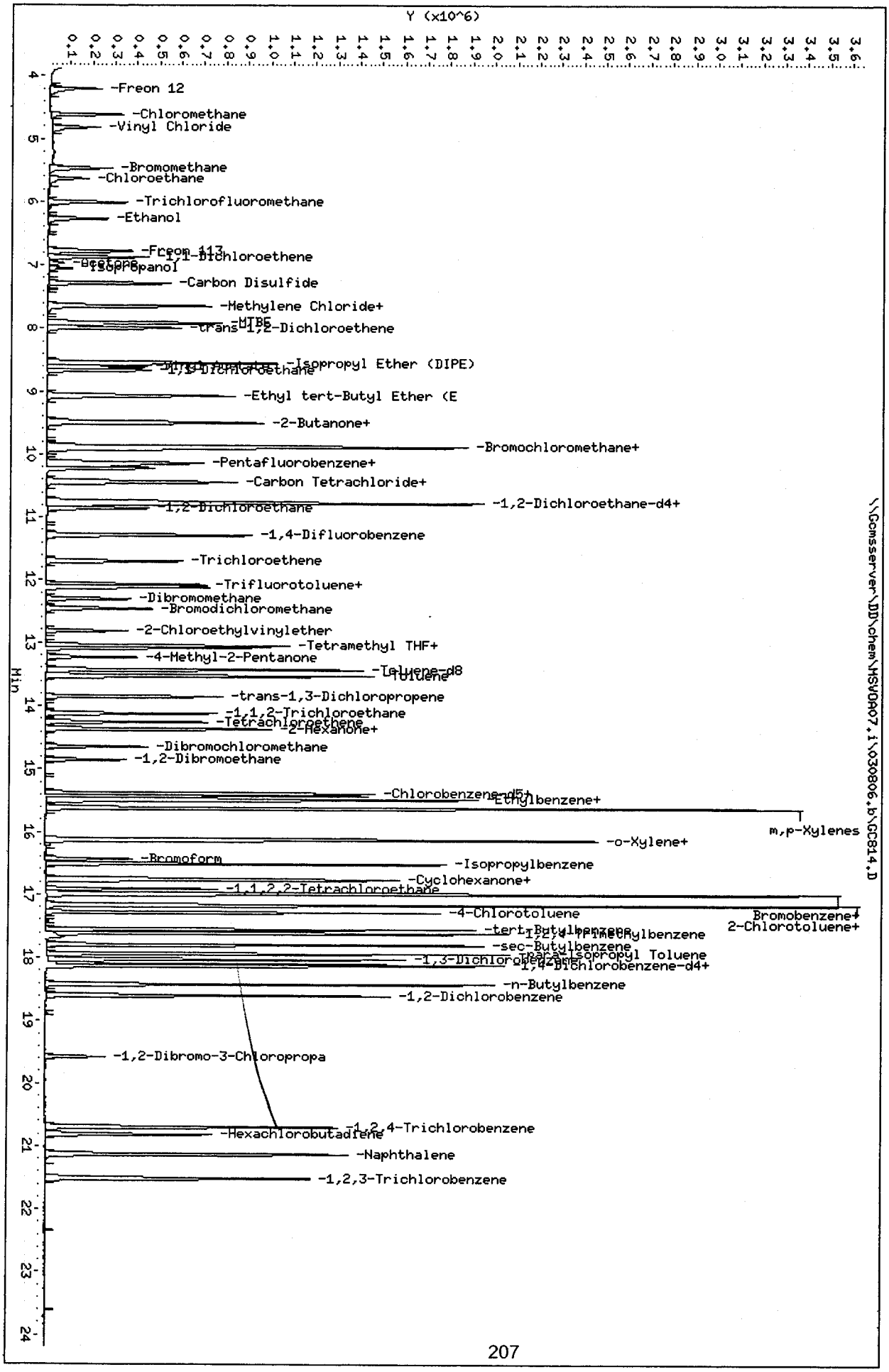
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.028	18.023	(0.996)	755139	50.0000	49.1304
* 78 1,4-Dichlorobenzene-d4	152	18.101	18.102	(1.000)	555422	50.0000	
79 1,4-Dichlorobenzene	146	18.132	18.132	(1.002)	795540	50.0000	45.9241
80 n-Butylbenzene	91	18.418	18.418	(1.017)	1276856	50.0000	47.8727
81 1,2-Dichlorobenzene	146	18.600	18.595	(1.028)	755914	50.0000	50.7016
82 1,2-Dibromo-3-Chloropropane	75	19.580	19.580	(1.082)	91924	50.0000	49.0864
83 1,2,4-Trichlorobenzene	180	20.693	20.693	(1.143)	560975	50.0000	53.9263
84 Hexachlorobutadiene	225	20.815	20.815	(1.150)	200693	50.0000	48.2325
85 Naphthalene	128	21.131	21.125	(1.167)	1599048	50.0000	50.2607
86 1,2,3-Trichlorobenzene	180	21.514	21.515	(1.189)	571376	50.0000	54.5309

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC814.D
Date : 08-MAR-2006 16:38
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.01/100,S2783,0.01/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA07.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC815.D
Report Date: 09-Mar-2006 09:22

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC815.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 08-MAR-2006 17:09 MS Autotune Date: 10-JAN-2006 07:50
Operator : LW Inst ID: MSVOA07.i
Smp Info : ICAL,S2844,0.015/100,S2783,0.015/100,
Misc Info : S2410,0.0075/100,75 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\826GOX7.m
Meth Date : 09-Mar-2006 09:04 target Quant Type: ISTD
Cal Date : 08-MAR-2006 17:09 Cal File: GC815.D
Als bottle: 15 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.201	4.201	(0.415)	719505	75.0000	84.5029
2 Chloromethane	50	4.614	4.614	(0.456)	751958	75.0000	77.8305
3 Vinyl Chloride	62	4.815	4.815	(0.476)	663882	75.0000	81.1567
4 Bromomethane	94	5.466	5.466	(0.540)	378983	75.0000	76.0151
5 Chloroethane	64	5.630	5.630	(0.556)	429669	75.0000	70.9165
6 Trichlorofluoromethane	101	6.007	6.008	(0.593)	841065	75.0000	81.2402
7 Ethanol	45	6.269	6.269	(0.619)	629006	7500.00	7519.4627(A)
8 Freon 113	101	6.774	6.774	(0.669)	409511	75.0000	78.6982
9 1,1-Dichloroethene	96	6.871	6.871	(0.679)	347881	75.0000	79.5094
10 Acetone	43	6.969	6.969	(0.688)	178400	75.0000	68.8728
11 Isopropanol	45	7.048	7.048	(0.696)	269309	750.000	810.8246(A)
12 Carbon Disulfide	76	7.285	7.285	(0.719)	1493379	75.0000	66.9740
13 Methylene Chloride	84	7.638	7.638	(0.754)	492270	75.0000	70.4899
14 tert-Butyl Alcohol (TBA)	59	7.632	7.632	(0.754)	388848	750.000	870.0750(A)
15 MTBE	73	7.912	7.912	(0.781)	1601897	75.0000	75.9648
16 trans-1,2-Dichloroethene	96	7.985	7.985	(0.789)	450388	75.0000	73.1590
17 Isopropyl Ether (DIPE)	45	8.544	8.538	(0.844)	1919163	75.0000	75.6920(A)
18 Vinyl Acetate	43	8.605	8.605	(0.850)	1356900	75.0000	78.7665
19 1,1-Dichloroethane	63	8.660	8.660	(0.855)	923310	75.0000	70.0514
20 Ethyl tert-Butyl Ether (ETBE)	59	9.067	9.068	(0.895)	1527364	75.0000	75.8426(A)
21 2-Butanone	43	9.469	9.469	(0.935)	268338	75.0000	81.0706
22 2,2-Dichloropropane	77	9.487	9.487	(0.937)	622783	75.0000	74.6126

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC815.D
Report Date: 09-Mar-2006 09:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.499	9.500	(0.938)	508102	75.0000	80.3211
	24 Bromochloromethane	128	9.870	9.871	(0.975)	246735	75.0000	73.7070
	25 Tetrahydrofuran	42	9.877	9.877	(0.975)	1936714	750.000	764.1420(A)
	26 Chloroform	83	9.913	9.913	(0.979)	870072	75.0000	70.8935
*	27 Pentafluorobenzene	168	10.126	10.126	(1.000)	585541	50.0000	
$	28 Dibromofluoromethane	113	10.162	10.163	(1.004)	300506	50.0000	47.5775
	29 1,1,1-Trichloroethane	97	10.217	10.211	(1.009)	698950	75.0000	71.1104
	30 Carbon Tetrachloride	117	10.424	10.424	(0.924)	584215	75.0000	75.6334
	31 1,1-Dichloropropene	75	10.442	10.443	(0.926)	625245	75.0000	84.5252
$	32 1,2-Dichloroethane-d4	65	10.734	10.735	(0.951)	434032	50.0000	48.4589
	33 Benzene	78	10.759	10.765	(0.954)	1999260	75.0000	71.4213
	34 Methyl tert-Amyl Ether (TAME)	73	10.777	10.771	(0.955)	1509538	75.0000	75.5942(A)
	35 1,2-Dichloroethane	62	10.850	10.850	(0.962)	774534	75.0000	72.2894
*	36 1,4-Difluorobenzene	114	11.282	11.282	(1.000)	991163	50.0000	
	37 Trichloroethene	95	11.696	11.696	(1.037)	452115	75.0000	77.4077
$	38 Trifluorotoluene	146	12.067	12.067	(1.070)	653168	75.0000	82.0028(A)
	39 1,2-Dichloropropane	63	12.109	12.109	(1.073)	560897	75.0000	82.1108
	40 Dibromomethane	93	12.298	12.298	(1.090)	319242	75.0000	79.2835
	41 Bromodichloromethane	83	12.456	12.456	(1.104)	637912	75.0000	77.7054
	42 2-Chloroethylvinylether	63	12.815	12.815	(1.136)	316382	75.0000	76.8075
	43 Tetramethyl THF	43	13.052	13.052	(1.157)	1154486	75.0000	75.9680(A)
	44 cis-1,3-Dichloropropene	75	13.089	13.089	(1.160)	873754	75.0000	75.2045
	45 4-Methyl-2-Pentanone	43	13.229	13.229	(1.173)	610622	75.0000	76.2986
$	46 Toluene-d8	98	13.429	13.430	(1.190)	1181552	50.0000	51.1259
	47 Toluene	92	13.527	13.527	(1.199)	1247922	75.0000	77.5178
	48 trans-1,3-Dichloropropene	75	13.849	13.849	(1.228)	806273	75.0000	87.8074
	49 1,1,2-Trichloroethane	85	14.117	14.117	(1.251)	253094	75.0000	76.2064
	50 Tetrachloroethene	166	14.251	14.251	(0.926)	431423	75.0000	79.1022
	51 2-Hexanone	43	14.348	14.348	(0.933)	410632	75.0000	77.1391
	52 1,3-Dichloropropane	76	14.366	14.366	(0.934)	905605	75.0000	81.6699
	53 Dibromochloromethane	129	14.640	14.640	(0.952)	465434	75.0000	83.6376
	54 1,2-Dibromoethane	107	14.853	14.853	(1.317)	469250	75.0000	82.8380
*	55 Chlorobenzene-d5	117	15.382	15.382	(1.000)	952374	50.0000	
	56 Chlorobenzene	112	15.419	15.419	(1.002)	1415641	75.0000	73.4139
	57 Ethylbenzene	91	15.473	15.474	(1.006)	2424840	75.0000	83.9993
	58 1,1,1,2-Tetrachloroethane	131	15.498	15.498	(1.008)	496435	75.0000	76.9153
	59 m,p-Xylenes	106	15.613	15.614	(1.015)	1942603	150.000	153.8785
	60 o-Xylene	106	16.118	16.118	(1.048)	935580	75.0000	76.6811
	61 Styrene	104	16.137	16.137	(1.049)	1654889	75.0000	76.6919
	62 Bromoform	173	16.435	16.435	(1.068)	329352	75.0000	84.3151
	63 Isopropylbenzene	105	16.520	16.514	(0.913)	2320957	75.0000	77.8609
	64 Cyclohexanone	55	16.751	16.751	(0.925)	861321	750.000	745.1204(A)
$	65 Bromofluorobenzene	95	16.775	16.776	(0.927)	571588	50.0000	50.8978
	66 1,1,2,2-Tetrachloroethane	83	16.909	16.909	(0.934)	724127	75.0000	73.2991
	67 Bromobenzene	156	16.982	16.982	(0.938)	636554	75.0000	76.0464
	68 Propylbenzene	91	16.988	16.988	(0.938)	3123727	75.0000	87.9857
	69 1,2,3-Trichloropropane	75	17.006	17.007	(0.940)	744235	75.0000	74.5467
	70 2-Chlorotoluene	91	17.165	17.165	(0.948)	2142491	75.0000	83.5480
	71 1,3,5-Trimethylbenzene	105	17.171	17.171	(0.949)	2210290	75.0000	77.4748
	72 4-Chlorotoluene	91	17.286	17.280	(0.955)	1964206	75.0000	84.4779
	73 tert-Butylbenzene	119	17.548	17.548	(0.969)	1825329	75.0000	78.5604
	74 1,2,4-Trimethylbenzene	105	17.615	17.609	(0.973)	2304042	75.0000	76.9144
	75 sec-Butylbenzene	105	17.797	17.798	(0.983)	2802736	75.0000	79.0533
	76 para-Isopropyl Toluene	119	17.937	17.937	(0.991)	2430487	75.0000	78.6776

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC815.D
Report Date: 09-Mar-2006 09:22

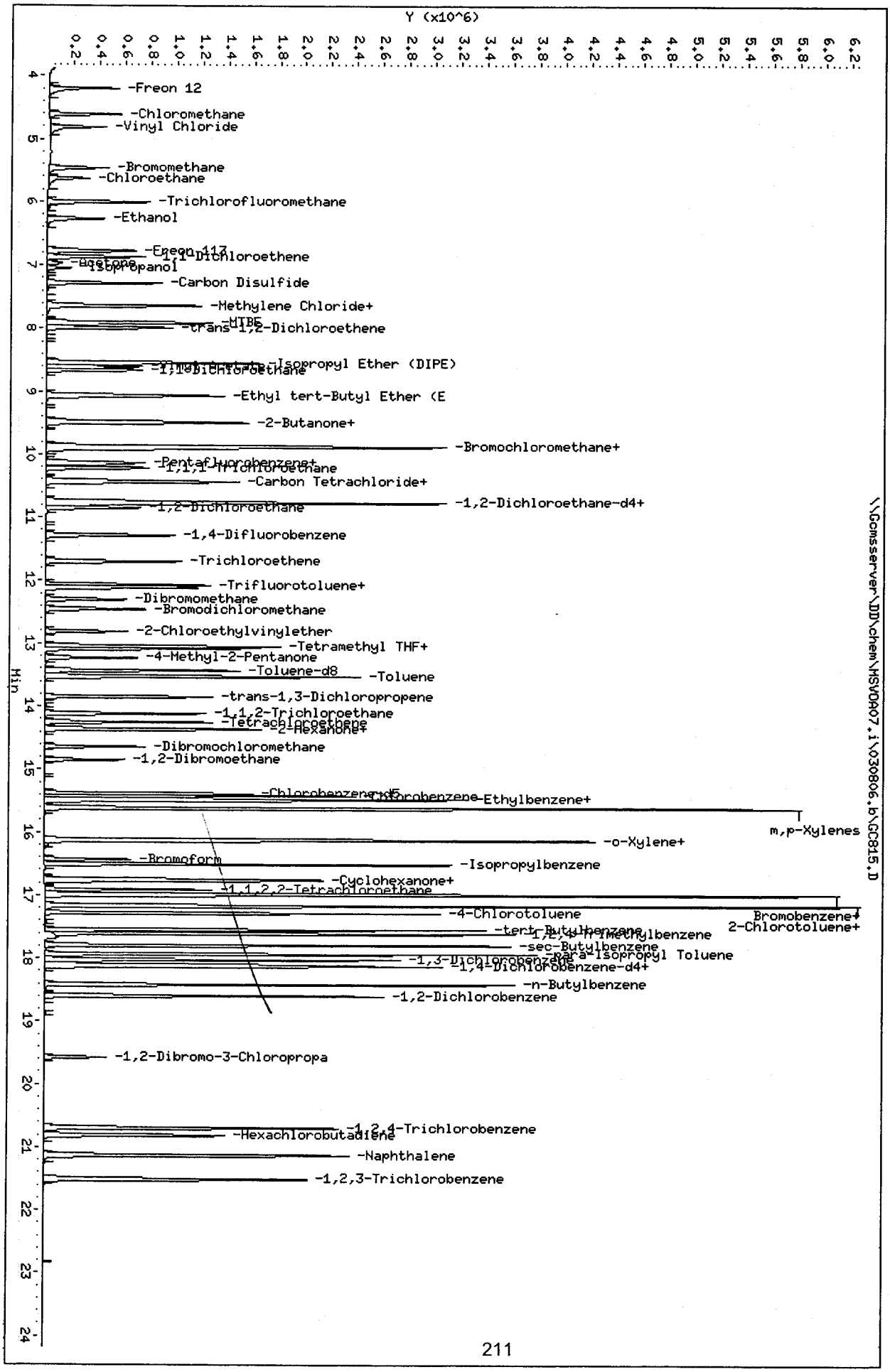
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.029	18.023	(0.996)	1296067	75.0000	78.1567
* 78 1,4-Dichlorobenzene-d4	152	18.102	18.102	(1.000)	599250	50.0000	
79 1,4-Dichlorobenzene	146	18.132	18.132	(1.002)	1348062	75.0000	72.1279
80 n-Butylbenzene	91	18.418	18.418	(1.017)	2368848	75.0000	79.3189
81 1,2-Dichlorobenzene	146	18.600	18.595	(1.028)	1260650	75.0000	78.3717
82 1,2-Dibromo-3-Chloropropane	75	19.574	19.580	(1.081)	160919	75.0000	76.9102
83 1,2,4-Trichlorobenzene	180	20.693	20.693	(1.143)	980852	75.0000	87.3928
84 Hexachlorobutadiene	225	20.815	20.815	(1.150)	369400	75.0000	82.2849
85 Naphthalene	128	21.125	21.125	(1.167)	2796703	75.0000	74.9014
86 1,2,3-Trichlorobenzene	180	21.514	21.515	(1.189)	977753	75.0000	86.4898

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Gcmsserver\DD\chem\HSVOA07.i\030806.b\GC815.D
Date : 08-MAR-2006 17:09
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.015/100,S2783,0.015/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: HSVOA07.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC816.D
Report Date: 09-Mar-2006 09:22

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC816.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 08-MAR-2006 17:40 MS Autotune Date: 10-JAN-2006 07:50
Operator : LW Inst ID: MSVOA07.i
Smp Info : ICAL,S2844,0.02/100,S2783,0.02/100,
Misc Info : S2410,0.01/100,100 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\826GOX7.m
Meth Date : 09-Mar-2006 09:04 target Quant Type: ISTD
Cal Date : 08-MAR-2006 17:40 Cal File: GC816.D
Als bottle: 16 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.201	4.201	(0.415)	949913	100.000	101.9310
2 Chloromethane	50	4.614	4.614	(0.456)	1036995	100.000	98.7844
3 Vinyl Chloride	62	4.815	4.815	(0.476)	872619	100.000	97.4684
4 Bromomethane	94	5.466	5.466	(0.540)	540823	100.000	99.6687
5 Chloroethane	64	5.630	5.630	(0.556)	614766	100.000	92.7060
6 Trichlorofluoromethane	101	6.008	6.008	(0.593)	1128788	100.000	99.6181
7 Ethanol	45	6.269	6.269	(0.619)	934641	10000.0	10208.4899(A)
8 Freon 113	101	6.774	6.774	(0.669)	561909	100.000	98.6620
9 1,1-Dichloroethene	96	6.871	6.871	(0.679)	512222	100.000	106.9623
10 Acetone	43	6.969	6.969	(0.688)	282226	100.000	99.5484
11 Isopropanol	45	7.048	7.048	(0.696)	416456	1000.00	1145.5916(A)
12 Carbon Disulfide	76	7.285	7.285	(0.719)	2157675	100.000	88.4111
13 Methylene Chloride	84	7.638	7.638	(0.754)	709490	100.000	92.8228
14 tert-Butyl Alcohol (TBA)	59	7.632	7.632	(0.754)	620867	1000.00	1269.2877(A)
15 MTBE	73	7.912	7.912	(0.781)	2351342	100.000	99.4994
16 trans-1,2-Dichloroethene	96	7.985	7.985	(0.789)	661468	100.000	98.1691
17 Isopropyl Ether (DIPE)	45	8.538	8.538	(0.843)	2799704	100.000	99.5678(A)
18 Vinyl Acetate	43	8.605	8.605	(0.850)	1814736	100.000	96.1692
19 1,1-Dichloroethane	63	8.660	8.660	(0.855)	1324408	100.000	91.8071
20 Ethyl tert-Butyl Ether (ETBE)	59	9.068	9.068	(0.895)	2243804	100.000	99.5210(A)
21 2-Butanone	43	9.469	9.469	(0.935)	405202	100.000	111.8504
22 2,2-Dichloropropane	77	9.487	9.487	(0.937)	881474	100.000	96.4873

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC816.D
Report Date: 09-Mar-2006 09:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.500	9.500	(0.938)	740186	100.000	106.9066
	24 Bromochloromethane	128	9.871	9.871	(0.975)	359792	100.000	98.2006
	25 Tetrahydrofuran	42	9.877	9.877	(0.975)	2758841	1000.00	992.8466(A)
	26 Chloroform	83	9.913	9.913	(0.979)	1250187	100.000	93.0703
*	27 Pentafluorobenzene	168	10.126	10.126	(1.000)	640874	50.0000	
$	28 Dibromofluoromethane	113	10.163	10.163	(1.004)	323654	50.0000	46.8181
	29 1,1,1-Trichloroethane	97	10.211	10.211	(1.008)	993669	100.000	92.3662
	30 Carbon Tetrachloride	117	10.424	10.424	(0.924)	825590	100.000	98.0049
	31 1,1-Dichloropropene	75	10.443	10.443	(0.926)	894047	100.000	110.8253
$	32 1,2-Dichloroethane-d4	65	10.735	10.735	(0.951)	471774	50.0000	48.2979
	33 Benzene	78	10.765	10.765	(0.954)	2877934	100.000	94.2718
	34 Methyl tert-Amyl Ether (TAME)	73	10.771	10.771	(0.955)	2226139	100.000	99.6618(A)
	35 1,2-Dichloroethane	62	10.850	10.850	(0.962)	1104933	100.000	94.5611
*	36 1,4-Difluorobenzene	114	11.282	11.282	(1.000)	1080943	50.0000	
	37 Trichloroethene	95	11.696	11.696	(1.037)	659546	100.000	103.5435
$	38 Trifluorotoluene	146	12.067	12.067	(1.070)	924134	100.000	106.3852(A)
	39 1,2-Dichloropropane	63	12.109	12.109	(1.073)	822021	100.000	110.3423
	40 Dibromomethane	93	12.298	12.298	(1.090)	460396	100.000	104.8423
	41 Bromodichloromethane	83	12.456	12.456	(1.104)	932581	100.000	104.1644
	42 2-Chloroethylvinylether	63	12.815	12.815	(1.136)	484910	100.000	99.1390
	43 Tetramethyl THF	43	13.052	13.052	(1.157)	1684606	100.000	99.4496(A)
	44 cis-1,3-Dichloropropene	75	13.089	13.089	(1.160)	1274227	100.000	99.8511
	45 4-Methyl-2-Pentanone	43	13.229	13.229	(1.173)	897077	100.000	99.4058
$	46 Toluene-d8	98	13.430	13.430	(1.190)	1267793	50.0000	50.3012
	47 Toluene	92	13.527	13.527	(1.199)	1796788	100.000	102.3418
	48 trans-1,3-Dichloropropene	75	13.849	13.849	(1.228)	1181814	100.000	118.0159
	49 1,1,2-Trichloroethane	85	14.117	14.117	(1.251)	367171	100.000	101.3725
	50 Tetrachloroethene	166	14.251	14.251	(0.926)	609687	100.000	101.7667
	51 2-Hexanone	43	14.348	14.348	(0.933)	616068	100.000	99.0734
	52 1,3-Dichloropropane	76	14.366	14.366	(0.934)	1312147	100.000	107.7257
	53 Dibromochloromethane	129	14.640	14.640	(0.952)	680460	100.000	111.3166
	54 1,2-Dibromoethane	107	14.853	14.853	(1.317)	692402	100.000	112.0795
*	55 Chlorobenzene-d5	117	15.382	15.382	(1.000)	1046150	50.0000	
	56 Chlorobenzene	112	15.419	15.419	(1.002)	2041149	100.000	96.3637
	57 Ethylbenzene	91	15.474	15.474	(1.006)	3452390	100.000	108.8745
	58 1,1,1,2-Tetrachloroethane	131	15.498	15.498	(1.008)	713850	100.000	100.6865
	59 m,p-Xylenes	106	15.614	15.614	(1.015)	2778744	200.000	198.2676
	60 o-Xylene	106	16.118	16.118	(1.048)	1366466	100.000	99.2309
	61 Styrene	104	16.137	16.137	(1.049)	2401213	100.000	99.1906
	62 Bromoform	173	16.435	16.435	(1.068)	490702	100.000	114.3606
	63 Isopropylbenzene	105	16.514	16.514	(0.912)	3272274	100.000	98.6210
	64 Cyclohexanone	55	16.751	16.751	(0.925)	1766993	1000.00	724.0142(A)
$	65 Bromofluorobenzene	95	16.776	16.776	(0.927)	621282	50.0000	50.8804
	66 1,1,2,2-Tetrachloroethane	83	16.909	16.909	(0.934)	1023869	100.000	95.3180
	67 Bromobenzene	156	16.982	16.982	(0.938)	914644	100.000	100.4944
	68 Propylbenzene	91	16.988	16.988	(0.939)	4326993	100.000	112.0912
	69 1,2,3-Trichloropropane	75	17.007	17.007	(0.940)	1072379	100.000	98.7899
	70 2-Chlorotoluene	91	17.165	17.165	(0.948)	3008034	100.000	107.8813
	71 1,3,5-Trimethylbenzene	105	17.171	17.171	(0.949)	3119721	100.000	98.8845
	72 4-Chlorotoluene	91	17.280	17.280	(0.955)	2794564	100.000	110.5393
	73 tert-Butylbenzene	119	17.548	17.548	(0.969)	2538315	100.000	98.2397
	74 1,2,4-Trimethylbenzene	105	17.609	17.609	(0.973)	3285455	100.000	99.1785
	75 sec-Butylbenzene	105	17.798	17.798	(0.983)	3844998	100.000	97.9329
	76 para-Isopropyl Toluene	119	17.937	17.937	(0.991)	3376616	100.000	98.1788

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC816.D
Report Date: 09-Mar-2006 09:22

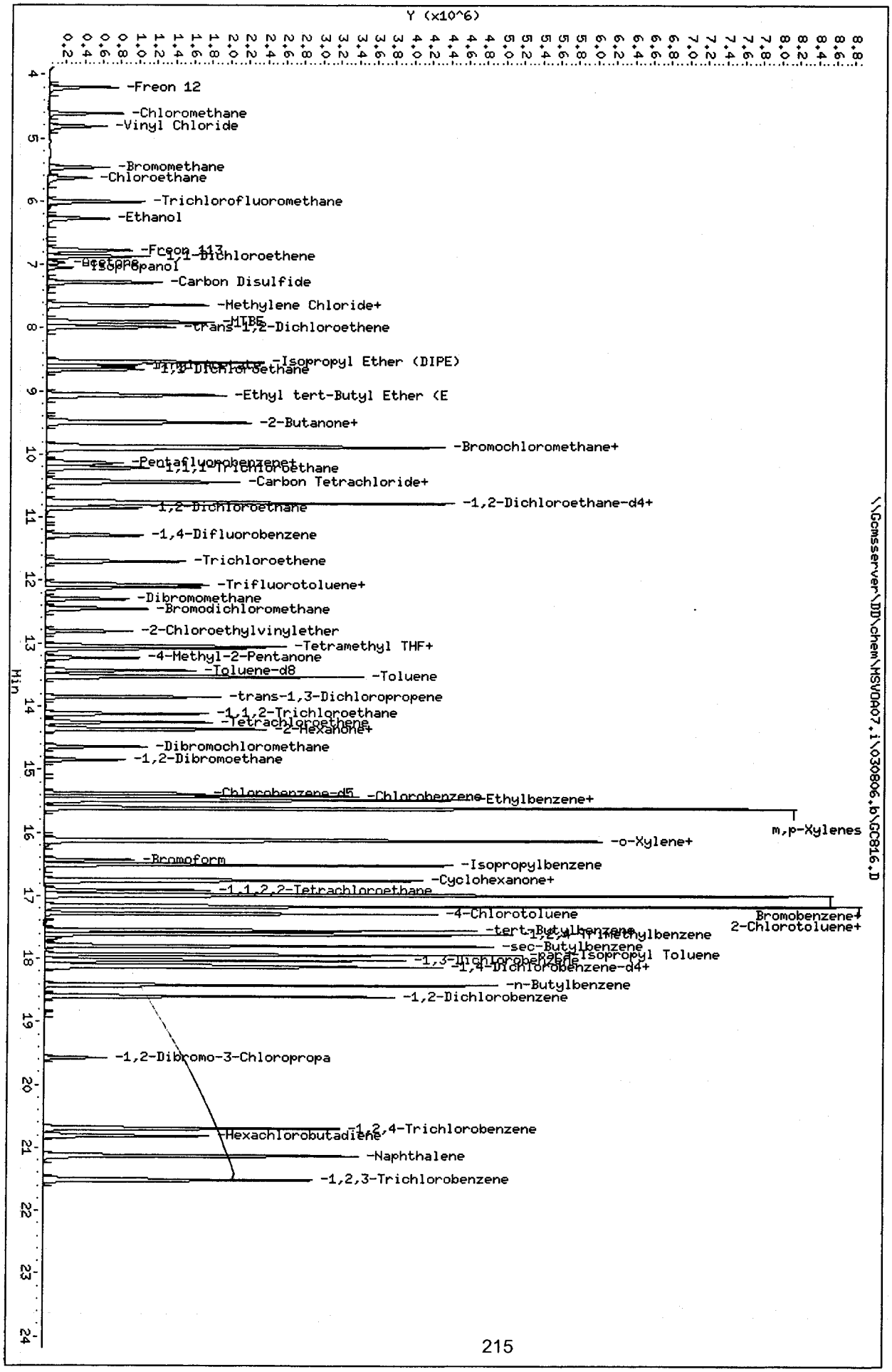
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.023	18.023	(0.996)	1827165	100.000	101.3358
* 78 1,4-Dichlorobenzene-d4	152	18.102	18.102	(1.000)	651571	50.0000	
79 1,4-Dichlorobenzene	146	18.132	18.132	(1.002)	1917313	100.000	94.3481
80 n-Butylbenzene	91	18.418	18.418	(1.017)	3242762	100.000	97.7657
81 1,2-Dichlorobenzene	146	18.595	18.595	(1.027)	1812575	100.000	103.6352
82 1,2-Dibromo-3-Chloropropane	75	19.580	19.580	(1.082)	232342	100.000	99.1431
83 1,2,4-Trichlorobenzene	180	20.693	20.693	(1.143)	1412129	100.000	115.7158
84 Hexachlorobutadiene	225	20.815	20.815	(1.150)	492585	100.000	100.9138
85 Naphthalene	128	21.125	21.125	(1.167)	4048283	100.000	92.4584
86 1,2,3-Trichlorobenzene	180	21.515	21.515	(1.189)	1387077	100.000	112.8451

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\030806.b\GC816.D
Date : 08-MAR-2006 17:40
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.02/100,S2783,0.02/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA07.i
Operator: LW
Column diameter: 0.25



CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA07 IDF : 1.0
Seqnum : 466096970017 File : gc817 Time : 08-MAR-2006 18:11
Cal : 466096970001 Caldate: 08-MAR-2006 Caltype: WATER
Standards: S2807 (10000X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	0.7271	0.5753	25.00	19.78	ug/L	**-21**	30	!v-
Chloromethane	1.0160	0.7826	25.00	22.89	ug/L	-8	30	
Vinyl Chloride	0.7952	0.6029	25.00	21.56	ug/L	-14	20	
Bromomethane	0.5326	0.3865	25.00	22.00	ug/L	-12	30	
Chloroethane	0.5174	0.4398	25.00	21.25	ug/L	-15	30	m
Trichlorofluoromethane	0.8840	0.6868	25.00	19.42	ug/L	**-22**	30	!v-

ISTD (ICAL gc814)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	542122	610997	12.70	10.13	10.13	0.00
1,4-Difluorobenzene	912316	1087863	19.24	11.28	11.28	0.00
1,4-Dichlorobenzene-d4	555422	532946	-4.05	18.10	18.10	0.00

LW 3-9-06

Salvador

!=warning -=low bias m=manual integration v=ICV

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA07 IDF : 1.0
Seqnum : 466096970018 File : gc818 Time : 08-MAR-2006 18:42
Cal : 466096970001 Caldate: 08-MAR-2006 Caltype: WATER
Standards: S2829 (10000X), S2616 (10000X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Acetone	0.2212	0.1941	25.00	21.94	ug/L	-12	40	
Freon 113	0.4443	0.3912	25.00	22.01	ug/L	-12	30	
1,1-Dichloroethene	0.3736	0.3937	25.00	26.35	ug/L	5	20	
Methylene Chloride	0.5963	0.5912	25.00	24.79	ug/L	-1	30	
Carbon Disulfide	1.9040	1.3873	25.00	18.22	ug/L	**-27**	30	!v-
MTBE	1.4828	1.5014	25.00	22.34	ug/L	-11	30	
trans-1,2-Dichloroethene	0.5257	0.5235	25.00	24.90	ug/L	0	30	
Vinyl Acetate	1.2546	1.0643	25.00	18.36	ug/L	-27	40	
1,1-Dichloroethane	1.1255	1.0591	25.00	23.52	ug/L	-6	30	
2-Butanone	0.2826	0.2741	25.00	24.24	ug/L	-3	40	
2,2-Dichloropropane	0.7127	0.6407	25.00	22.47	ug/L	-10	30	
cis-1,2-Dichloroethene	0.5402	0.5765	25.00	26.68	ug/L	7	30	
Chloroform	1.0480	0.9976	25.00	23.80	ug/L	-5	20	
Bromochloromethane	0.2858	0.2897	25.00	25.33	ug/L	1	30	
1,1,1-Trichloroethane	0.8393	0.7778	25.00	23.17	ug/L	-7	30	
1,1-Dichloropropene	0.3732	0.3973	25.00	26.61	ug/L	6	30	
Carbon Tetrachloride	0.3897	0.3756	25.00	24.10	ug/L	-4	30	
1,2-Dichloroethane	0.5405	0.5310	25.00	24.56	ug/L	-2	30	
Benzene	1.4121	1.3740	25.00	24.33	ug/L	-3	30	
Trichloroethene	0.2946	0.3094	25.00	26.25	ug/L	5	30	
1,2-Dichloropropane	0.3446	0.3566	25.00	25.87	ug/L	3	20	
Bromodichloromethane	0.4141	0.4470	25.00	26.98	ug/L	8	30	
Dibromomethane	0.2031	0.2117	25.00	26.06	ug/L	4	30	
2-Chloroethylvinylether	0.1412	0.1747	25.00	25.14	ug/L	1	40	
4-Methyl-2-Pentanone	0.3360	0.3494	25.00	24.07	ug/L	-4	40	
Tetramethyl THF	0.5813	0.6867	25.00	24.01	ug/L	-4	30	
cis-1,3-Dichloropropene	0.4911	0.5734	25.00	25.11	ug/L	0	30	
Toluene	0.8121	0.8080	25.00	24.87	ug/L	-1	20	
trans-1,3-Dichloropropene	0.4632	0.4692	25.00	25.32	ug/L	1	30	
1,1,2-Trichloroethane	0.1675	0.1732	25.00	25.85	ug/L	3	30	
2-Hexanone	0.2238	0.2383	25.00	24.99	ug/L	0	40	
1,3-Dichloropropane	0.5822	0.6490	25.00	27.87	ug/L	11	30	
Tetrachloroethene	0.2863	0.3026	25.00	26.42	ug/L	6	30	
Dibromochloromethane	0.2922	0.3205	25.00	27.43	ug/L	10	30	
1,2-Dibromoethane	0.2858	0.3050	25.00	26.68	ug/L	7	30	
Chlorobenzene	1.0124	1.0000	25.00	24.69	ug/L	-1	30	
1,1,1,2-Tetrachloroethane	0.3389	0.3457	25.00	25.51	ug/L	2	30	
Ethylbenzene	1.5155	1.6292	25.00	26.88	ug/L	8	20	
m,p-Xylenes	0.5688	0.6584	50.00	51.34	ug/L	3	30	
o-Xylene	0.5099	0.6233	25.00	26.09	ug/L	4	30	
Styrene	0.8523	1.0390	25.00	24.50	ug/L	-2	30	
Bromoform	0.2051	0.2075	25.00	25.30	ug/L	1	30	
Isopropylbenzene	1.9702	2.3556	25.00	25.42	ug/L	2	30	
1,1,2,2-Tetrachloroethane	0.8243	0.7918	25.00	24.01	ug/L	-4	30	
1,2,3-Trichloropropane	0.8330	0.8648	25.00	25.95	ug/L	4	30	
Propylbenzene	2.9623	3.4932	25.00	29.48	ug/L	18	30	
Bromobenzene	0.6984	0.7320	25.00	26.20	ug/L	5	30	
1,3,5-Trimethylbenzene	2.0134	2.4255	25.00	26.69	ug/L	7	30	
2-Chlorotoluene	2.1397	2.4276	25.00	28.36	ug/L	13	30	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
4-Chlorotoluene	1.9400	2.1887	25.00	28.20	ug/L	13	30	
tert-Butylbenzene	1.5827	1.9961	25.00	27.51	ug/L	10	30	
1,2,4-Trimethylbenzene	2.0305	2.5236	25.00	26.42	ug/L	6	30	
sec-Butylbenzene	2.4182	3.0803	25.00	27.61	ug/L	10	30	
para-Isopropyl Toluene	2.0237	2.4957	25.00	26.05	ug/L	4	30	
1,3-Dichlorobenzene	1.3836	1.4454	25.00	26.12	ug/L	4	30	
1,4-Dichlorobenzene	1.5594	1.5380	25.00	24.66	ug/L	-1	30	
n-Butylbenzene	2.0647	2.5157	25.00	27.04	ug/L	8	30	
1,2-Dichlorobenzene	1.3421	1.4158	25.00	26.37	ug/L	5	30	
1,2-Dibromo-3-Chloropropane	0.1573	0.1671	25.00	25.56	ug/L	2	30	
1,2,4-Trichlorobenzene	0.9365	1.0431	25.00	27.85	ug/L	11	30	
Hexachlorobutadiene	0.3746	0.4368	25.00	29.15	ug/L	17	30	
Naphthalene	2.0582	2.8230	25.00	26.56	ug/L	6	30	
1,2,3-Trichlorobenzene	0.9432	1.0547	25.00	27.95	ug/L	12	30	
tert-Butyl Alcohol (TBA)	0.0382	0.0388	125.0	127.2	ug/L	2	30	
Isopropyl Ether (DIPE)	1.7865	1.8755	25.00	22.76	ug/L	-9	30	
Ethyl tert-Butyl Ether (ETBE)	1.3859	1.6324	25.00	25.28	ug/L	1	30	
Methyl tert-Amyl Ether (TAME)	0.8460	0.9230	25.00	24.40	ug/L	-2	30	
Cyclohexanone	0.0674	0.0253	250.0	108.0	ug/L	-57	30	v- ***
Ethanol	0.0071	0.0069	2500	2428	ug/L	-3	30	
Isopropanol	0.0284	0.0283	250.0	249.6	ug/L	0	30	
Tetrahydrofuran	0.1870	0.2150	250.0	252.1	ug/L	1	30	

ISTD (ICAL gc814)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	542122	626319	15.53	10.13	10.13	0.00
1,4-Difluorobenzene	912316	1052462	15.36	11.28	11.28	0.00
Chlorobenzene-d5	888382	990438	11.49	15.38	15.38	0.00
1,4-Dichlorobenzene-d4	555422	577543	3.98	18.10	18.10	0.00

LW 3-9-06

!=warning -=low bias v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 8260B

Inst : MSVOA08 Name : 826GOX8
Calnum : 476046588001 Date : 01-FEB-2006 15:57 Type : WATER Inj Vol: 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	hb110	476046588010	1.0/0.5 PPB	01-FEB-2006 15:57	S2349 (1000000X), S2552 (500000X), S2028 (1000000X), S2284 (5000X)
L2	hb111	476046588011	2 PPB	01-FEB-2006 16:34	S2349 (250000X), S2552 (250000X), S2028 (500000X), S2284 (5000X)
L3	hb112	476046588012	5 PPB	01-FEB-2006 17:10	S2349 (100000X), S2552 (100000X), S2028 (200000X), S2284 (5000X)
L4	hb113	476046588013	10 PPB	01-FEB-2006 17:47	S2349 (50000X), S2552 (50000X), S2028 (100000X), S2284 (5000X)
L5	hb114	476046588014	20 PPB	01-FEB-2006 18:24	S2349 (25000X), S2552 (25000X), S2028 (50000X), S2284 (5000X)
L6	hb115	476046588015	50 PPB	01-FEB-2006 19:01	S2349 (10000X), S2552 (10000X), S2028 (20000X), S2284 (5000X)
L7	hb116	476046588016	75 PPB	01-FEB-2006 19:39	S2349 (6667X), S2552 (6667X), S2028 (13330X), S2284 (5000X)
L8	hb117	476046588017	100 PPB	01-FEB-2006 20:16	S2349 (5000X), S2552 (5000X), S2028 (10000X), S2284 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Freon 12	0.4151m	0.4864m	0.5409m	0.6541	0.6818	0.6644	0.6143		LINR	R	-0.14708	1.583834		ug/L	0.5796	0.997	0.050	0.99	15	
Chloromethane	1.1138m	0.9813m	0.9454m	0.9524	0.9198	0.8396	0.7439	0.7086	AVRG	R		1.110360		ug/L	0.9006	15	0.10	0.99	15	
Vinyl Chloride	0.6240m	0.6235m	0.6467m	0.7372	0.7211	0.7003	0.6363	0.6098	AVRG	R		1.509729		ug/L	0.6624	7	0.050	0.99	15	
Bromomethane	0.2005m	0.1667m	0.2456m	0.2780m	0.2834m	0.3154	0.3227		QUAD	R	0.825044	3.330394	-0.01132	ug/L	0.2589	1.000	0.050	0.99	15	
Chloroethane	0.4178m	0.4212m	0.3688m	0.4309m	0.4142m	0.3899	0.3490	0.3338	AVRG	R		2.559573		ug/L	0.3907	9	0.050	0.99	15	
Trichlorofluoromethane	0.3799	0.4065	0.4641	0.5536	0.5569	0.5281	0.4977	0.4728	AVRG	R		2.072747		ug/L	0.4825	13	0.050	0.99	15	219
Acetone			0.3077	0.3039	0.3072	0.3220	0.2828	0.2890	AVRG	R		3.309947		ug/L	0.3021	5	0.050	0.99	15	
Freon 113	0.1178m	0.1580	0.2916	0.4237	0.4352	0.4515	0.4332		LINR	R	0.777856	2.248929		ug/L	0.3302	0.999	0.050	0.99	15	
1,1-Dichloroethene	0.2897m	0.2779	0.3330	0.4181	0.4044	0.4116	0.3879	0.3575	AVRG	R		2.777622		ug/L	0.3600	15	0.050	0.99	15	
Methylene Chloride		0.7334m	0.6342	0.5835	0.5733	0.5423	0.5051	0.5046	AVRG	R		1.717212		ug/L	0.5823	14	0.050	0.99	15	
Carbon Disulfide	1.5006	1.5184	1.7653	2.0342	2.0276	1.9857	1.8412	1.7034	AVRG	R		0.556466		ug/L	1.7971	12	0.050	0.99	15	
MTBE	1.4171	1.4923	1.5365	1.5516	1.5167	1.4561	1.3333	1.3183	AVRG	R		0.688354		ug/L	1.4527	6	0.050	0.99	15	
trans-1,2-Dichloroethene	0.4628	0.4006	0.4450	0.4870	0.4752	0.4722	0.4570	0.4347	AVRG	R		2.201178		ug/L	0.4543	6	0.050	0.99	15	
Vinyl Acetate	1.5328	1.6819	1.7830	1.9063	1.8890	1.6148	1.4593	1.2739	AVRG	R		0.608787		ug/L	1.6426	13	0.050	0.99	15	
1,1-Dichloroethane	0.9496	0.9983	1.0666	1.0794	1.0409	1.0274	0.9539	0.8888	AVRG	R		0.999388		ug/L	1.0006	7	0.10	0.99	15	
2-Butanone		0.4880	0.4913	0.4731	0.4622	0.4595	0.4176	0.4111	AVRG	R		2.185554		ug/L	0.4575	7	0.050	0.99	15	
2,2-Dichloropropane	0.5122	0.5059	0.6010	0.6861	0.6552	0.6356	0.5833	0.5041	AVRG	R		1.708150		ug/L	0.5854	12	0.050	0.99	15	
cis-1,2-Dichloroethene	0.5183	0.4752	0.4877	0.5292	0.5163	0.5092	0.4866	0.4712	AVRG	R		2.003118		ug/L	0.4992	4	0.050	0.99	15	
Chloroform	0.8148	0.8255	0.8782	0.8968	0.8833	0.8371	0.7744	0.7315	AVRG	R		1.204527		ug/L	0.8302	7	0.050	0.99	15	
Bromochloromethane	0.2142	0.2156	0.2399	0.2331	0.2382	0.2343	0.2214	0.2196	AVRG	R		4.404502		ug/L	0.2270	5	0.050	0.99	15	
1,1,1-Trichloroethane	0.4001	0.4519	0.5032	0.6053	0.5896	0.5773	0.5547	0.4988	AVRG	R		1.913520		ug/L	0.5226	14	0.050	0.99	15	
1,1-Dichloropropene	0.2447	0.2083	0.2547	0.3290	0.3162	0.3280	0.3070		LINR	R	0.125587	3.178137		ug/L	0.2840	0.998	0.050	0.99	15	
Carbon Tetrachloride	0.1425	0.1255	0.1684	0.2209	0.2111	0.2212	0.2119		LINR	R	0.382218	4.625812		ug/L	0.1859	0.999	0.050	0.99	15	
1,2-Dichloroethane	0.3290	0.3566	0.3730	0.3832	0.3600	0.3471	0.3184	0.3089	AVRG	R		2.881620		ug/L	0.3470	8	0.050	0.99	15	
Benzene	0.8564	0.8089	0.8496	0.9091	0.8606	0.8489	0.8112	0.7458	AVRG	R		1.195760		ug/L	0.8363	6	0.050	0.99	15	
Trichloroethene	0.1627	0.1732	0.1965	0.2227	0.2156	0.2238	0.2183	0.2074	AVRG	R		4.937778		ug/L	0.2025	11	0.050	0.99	15	

 ICAL-OK ICV- Freon 12 ↓, Cyclohexanone ↓ CUSACE Chloromethane ↓)

LW 2-2-06

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
1,2-Dichloropropane	0.2831	0.2886	0.2996	0.3029	0.2842	0.2919	0.2729	0.2684	AVRG	R		3.490764		ug/L	0.2865	4	0.050	0.99	15	
Bromodichloromethane	0.2953	0.3052	0.3071	0.3218	0.3140	0.3067	0.2885	0.2923	AVRG	R		3.290899		ug/L	0.3039	4	0.050	0.99	15	
Dibromomethane	0.1424	0.1637	0.1655	0.1683	0.1628	0.1612	0.1518	0.1548	AVRG	R		6.296610		ug/L	0.1588	5	0.050	0.99	15	
2-Chloroethylvinylether	0.0286	0.0397	0.0587	0.0674	0.0874	0.0965	0.0966	0.1118	QUAD	R	1.104955	11.74411	-0.25468	ug/L	0.0733	0.999	0.050	0.99	15	
4-Methyl-2-Pentanone		0.3873	0.4538	0.4258	0.4349	0.4090	0.3915	0.3949	AVRG	R		2.416124		ug/L	0.4139	6	0.050	0.99	15	
Tetramethyl THF	0.7111	0.7195	0.7534	0.7676	0.7541	0.6961	0.6362	0.6192	AVRG	R		1.414150		ug/L	0.7071	8	0.050	0.99	15	
cis-1,3-Dichloropropene	0.3819	0.3876	0.4034	0.4195	0.4083	0.3952	0.3796	0.3739	AVRG	R		2.540201		ug/L	0.3937	4	0.050	0.99	15	
Toluene	0.4245	0.4067	0.4255	0.4699	0.4793	0.4874	0.4630	0.4407	AVRG	R		2.224154		ug/L	0.4496	7	0.050	0.99	15	
trans-1,3-Dichloropropene	0.3598	0.3456	0.3725	0.3922	0.3717	0.3707	0.3424	0.3411	AVRG	R		2.762469		ug/L	0.3620	5	0.050	0.99	15	
1,1,2-Trichloroethane	0.1290	0.1162	0.1201	0.1208	0.1211	0.1220	0.1153	0.1152	AVRG	R		8.335518		ug/L	0.1200	4	0.050	0.99	15	
2-Hexanone		0.3203	0.3488	0.3271	0.3545	0.3556	0.3197	0.3266	AVRG	R		2.975441		ug/L	0.3361	5	0.050	0.99	15	
1,3-Dichloropropane	0.4389	0.4620	0.4726	0.4827	0.4706	0.4683	0.4380	0.4251	AVRG	R		2.186803		ug/L	0.4573	4	0.050	0.99	15	
Tetrachloroethene	0.1024	0.1086	0.1325	0.1746	0.1691	0.1910	0.1890	0.1735	LINR	R	0.397786	5.502124		ug/L	0.1551	0.996	0.050	0.99	15	
Dibromochloromethane	0.1987	0.2100	0.2161	0.2254	0.2253	0.2312	0.2229	0.2249	AVRG	R		4.559602		ug/L	0.2193	5	0.050	0.99	15	
1,2-Dibromoethane	0.2001	0.2008	0.2119	0.2211	0.2157	0.2180	0.2138	0.2124	AVRG	R		4.723125		ug/L	0.2117	4	0.050	0.99	15	
Chlorobenzene	0.5567	0.5160	0.5276	0.5654	0.5698	0.5729	0.5488	0.5289	AVRG	R		1.823986		ug/L	0.5482	4	0.30	0.99	15	
1,1,1,2-Tetrachloroethane	0.1605	0.1693	0.1869	0.1887	0.1896	0.2002	0.1896	0.1895	AVRG	R		5.426352		ug/L	0.1843	7	0.050	0.99	15	
Ethylbenzene	0.9026	0.8113	0.8857	0.9985	0.9991	1.0216	0.9315	0.8607	AVRG	R		1.079459		ug/L	0.9264	8	0.050	0.99	15	
m,p-Xylenes	0.2767	0.2810	0.3029	0.3456	0.3529	0.3666	0.3329	0.3116	AVRG	R		3.112625		ug/L	0.3213	10	0.050	0.99	15	
o-Xylene	0.2912	0.2939	0.3043	0.3348	0.3390	0.3596	0.3342	0.3174	AVRG	R		3.107514		ug/L	0.3218	8	0.050	0.99	15	
Styrene	0.5548	0.5275	0.5636	0.6055	0.6189	0.6352	0.5876	0.5647	AVRG	R		1.717548		ug/L	0.5822	6	0.050	0.99	15	220
Bromoform	0.1688	0.1316	0.1365	0.1390	0.1418	0.1504	0.1438	0.1479	AVRG	R		6.897647		ug/L	0.1450	8	0.10	0.99	15	
Isopropylbenzene	1.5438	1.4555	1.6073	2.0268	1.9776	2.0193	1.9027	1.6939	AVRG	R		0.562316		ug/L	1.7784	13	0.050	0.99	15	
1,1,2,2-Tetrachloroethane	0.9032	0.8304	0.8962	0.9078	0.8967	0.8572	0.8192	0.7941	AVRG	R		1.158629		ug/L	0.8631	5	0.30	0.99	15	
1,2,3-Trichloropropane	0.1668	0.1926	0.2120	0.2073	0.2063	0.2019	0.1926	0.1905	AVRG	R		5.095546		ug/L	0.1962	7	0.050	0.99	15	
Propylbenzene	2.0577	1.8904	2.2141	2.6620	2.6527	2.5749	2.3658	2.0471	AVRG	R		0.433261		ug/L	2.3081	13	0.050	0.99	15	
Bromobenzene	0.4531	0.4099	0.4353	0.4517	0.4577	0.4711	0.4550	0.4423	AVRG	R		2.237073		ug/L	0.4470	4	0.050	0.99	15	
1,3,5-Trimethylbenzene	1.2777	1.2852	1.3139	1.6063	1.5918	1.6205	1.4605	1.3280	AVRG	R		0.696621		ug/L	1.4355	11	0.050	0.99	15	
2-Chlorotoluene	1.7862	1.5835	1.6041	1.7827	1.7598	1.7075	1.5311	1.3994	AVRG	R		0.608172		ug/L	1.6443	8	0.050	0.99	15	
4-Chlorotoluene	1.6456	1.4988	1.5292	1.6648	1.6162	1.6258	1.5251	1.4182	AVRG	R		0.638789		ug/L	1.5655	5	0.050	0.99	15	
tert-Butylbenzene	0.8774	0.8388	1.0060	1.2841	1.2444	1.3217	1.2677		LINR	R	0.450397	0.773405		ug/L	1.1200	0.999	0.050	0.99	15	
1,2,4-Trimethylbenzene	1.4339	1.3416	1.4258	1.6135	1.5924	1.5935	1.5202	1.4123	AVRG	R		0.670398		ug/L	1.4917	7	0.050	0.99	15	
sec-Butylbenzene	1.2475	1.3272	1.6220	2.1791	2.1613	2.2313	2.1074		LINR	R	0.327947	0.462987		ug/L	1.8394	0.998	0.050	0.99	15	
para-Isopropyl Toluene	1.0840	1.0360	1.2061	1.5480	1.5565	1.6336	1.5342		LINR	R	0.356802	0.634935		ug/L	1.3712	0.998	0.050	0.99	15	
1,3-Dichlorobenzene	0.8091	0.7340	0.8052	0.8442	0.8505	0.8577	0.8387	0.8175	AVRG	R		1.220070		ug/L	0.8196	5	0.050	0.99	15	
1,4-Dichlorobenzene	0.7822	0.8183	0.8098	0.9145	0.8748	0.8893	0.8767	0.8502	AVRG	R		1.173746		ug/L	0.8520	5	0.050	0.99	15	
n-Butylbenzene	1.0807	1.0327	1.2935	1.7274	1.6448	1.6976	1.6096		LINR	R	0.207835	0.608073		ug/L	1.4409	0.999	0.050	0.99	15	
1,2-Dichlorobenzene	0.7369	0.7380	0.7629	0.8303	0.8134	0.8229	0.8021	0.7916	AVRG	R		1.270222		ug/L	0.7873	5	0.050	0.99	15	
1,2-Dibromo-3-Chloropropane	0.1732	0.1755	0.1583	0.1618	0.1603	0.1554	0.1438	0.1452	AVRG	R		6.281555		ug/L	0.1592	7	0.050	0.99	15	
1,2,4-Trichlorobenzene	0.3325	0.3446	0.3744	0.4148	0.4141	0.4276	0.4232	0.4135	AVRG	R		2.544061		ug/L	0.3931	10	0.050	0.99	15	
Hexachlorobutadiene	0.0550	0.0680	0.0965	0.1488	0.1496	0.1632	0.1604	0.1413	LINR	R	0.220488	6.609546		ug/L	0.1229	0.992	0.050	0.99	15	

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Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Naphthalene	0.9422	0.9239	1.0503	1.1446	1.1383	1.1668	1.1398	1.1973	AVRG	R		0.919202		ug/L	1.0879	10	0.050	0.99	15	
1,2,3-Trichlorobenzene	0.3231	0.3429	0.3624	0.4014	0.4064	0.4080	0.4047	0.4118	AVRG	R		2.613631		ug/L	0.3826	9	0.050	0.99	15	
tert-Butyl Alcohol (TBA)	0.0639	0.0587	0.0634	0.0624	0.0622	0.0598	0.0547	0.0567	AVRG	R		16.60685		ug/L	0.0602	6	0.005	0.99	15	
Isopropyl Ether (DIPE)	2.4625	2.6487	2.7054	2.7350	2.6450	2.4987	2.2193	2.1070	AVRG	R		0.399572		ug/L	2.5027	9	0.050	0.99	15	
Ethyl tert-Butyl Ether (ETBE)	1.5816	1.6753	1.7529	1.7571	1.7211	1.6247	1.4924	1.4174	AVRG	R		0.614319		ug/L	1.6278	8	0.050	0.99	15	
Methyl tert-Amyl Ether (TAME)	0.7175	0.7019	0.7517	0.7718	0.7323	0.7051	0.6665	0.6303	AVRG	R		1.409185		ug/L	0.7096	6	0.050	0.99	15	
Cyclohexanone		0.1549	0.1132	0.1172	0.1123	0.1383	0.1222	0.1220	AVRG	R		7.952449		ug/L	0.1257	12	0.005	0.99	15	
Ethanol		0.0100	0.0109	0.0108	0.0111	0.0110	0.0098	0.0102	AVRG	R		94.87108		ug/L	0.0105	5	0.0005	0.99	15	
Isopropanol		0.0553	0.0544	0.0546	0.0553	0.0542	0.0488	0.0511	AVRG	R		18.72995		ug/L	0.0534	5	0.005	0.99	15	
Tetrahydrofuran		0.2651	0.2777	0.2672	0.2636	0.2341	0.2009	0.1890	AVRG	R		4.123493		ug/L	0.2425	15	0.005	0.99	15	
Dibromofluoromethane	0.7895	0.7897	0.7962	0.7990	0.7857	0.7599	0.7497	0.7444	AVRG	R		1.287404		ug/L	0.7768	3	0.050	0.99	15	
1,2-Dichloroethane-d4	0.5427	0.5307	0.5462	0.5415	0.5126	0.4835	0.4655	0.4394	AVRG	R		1.969427		ug/L	0.5078	8	0.050	0.99	15	
Trifluorotoluene	0.1167	0.1212	0.1619	0.2202	0.2198	0.2378	0.2363	0.2120	LINR	R	0.181402	4.460388		ug/L	0.1908	0.994	0.050	0.99	15	
Toluene-d8	1.1334	1.1229	1.1438	1.1248	1.1278	1.1228	1.1178	1.1078	AVRG	R		0.888778		ug/L	1.1251	1	0.050	0.99	15	
Bromofluorobenzene	1.3553	1.3675	1.3498	1.3266	1.2998	1.2772	1.2421	1.2086	AVRG	R		0.767243		ug/L	1.3034	4	0.050	0.99	15	

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m=manual integration

AVRG=Average response factor LINR=Linear regression QUAD=Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

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Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB110.D
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Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB110.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 15:57 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.001/1000,S2552,0.002/1000,
Misc Info : S2028,0.001/1000,1.0/0.5 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 15:57 Cal File: HB110.D
Als bottle: 10 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.838	4.823	(0.462)	11211	1.00000	0.5104(M)
2 Chloromethane	50	5.350	5.324	(0.511)	30081	1.00000	1.2367(M)
3 Vinyl Chloride	62	5.419	5.413	(0.517)	16852	1.00000	0.9420(M)
4 Bromomethane	94	6.038	6.042	(0.577)	5415	1.00000	1.4923(M)
5 Chloroethane	64	6.186	6.190	(0.591)	11282	1.00000	1.0692(M)
6 Trichlorofluoromethane	101	6.520	6.534	(0.623)	10259	1.00000	0.7873
7 Ethanol	45	6.786	6.790	(0.648)	13617	50.0000	47.8354(A)
8 Freon 113	101	7.238	7.252	(0.691)	1591	0.50000	0.9103(M)
9 1,1-Dichloroethene	96	7.347	7.360	(0.701)	3912	0.50000	0.4023(aM)
10 Acetone	43	7.455	7.449	(0.712)	13458	0.50000	1.6494
11 Isopropanol	45	7.524	7.527	(0.718)	9709	5.00000	6.7335(A)
12 Carbon Disulfide	76	7.769	7.773	(0.742)	20263	0.50000	0.4175(a)
13 tert-Butyl Alcohol (TBA)	59	8.074	8.077	(0.771)	8627	5.00000	5.3049(A)
14 Methylene Chloride	84	8.104	8.108	(0.774)	19517	0.50000	1.2409(M)
15 MTBE	73	8.330	8.334	(0.795)	19136	0.50000	0.4877(a)
16 trans-1,2-Dichloroethene	96	8.428	8.422	(0.805)	6249	0.50000	0.5093
17 Isopropyl Ether (DIPE)	45	8.930	8.934	(0.853)	33251	0.50000	0.4919(aA)
18 Vinyl Acetate	43	8.999	9.003	(0.859)	20697	0.50000	0.4665(a)
19 1,1-Dichloroethane	63	9.068	9.072	(0.866)	12822	0.50000	0.4744(a)
20 Ethyl tert-Butyl Ether (ETBE)	59	9.442	9.445	(0.901)	21356	0.50000	0.4857(aA)
21 2-Butanone	43	9.855	9.849	(0.941)	8992	0.50000	0.7276
22 2,2-Dichloropropane	77	9.874	9.868	(0.943)	6916	0.50000	0.4374(a)

LW 2-2-06

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB110.D
Report Date: 02-Feb-2006 10:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.884	9.888	(0.944)	6999	0.50000	0.5191
	24 Tetrahydrofuran	42	10.248	10.252	(0.978)	41790	5.00000	6.3807(A)
	25 Bromochloromethane	128	10.248	10.262	(0.978)	2892	0.50000	0.4716(a)
	26 Chloroform	83	10.287	10.281	(0.982)	11003	0.50000	0.4907(a)
*	27 Pentafluorobenzene	168	10.474	10.478	(1.000)	1350317	50.0000	
$	28 Dibromofluoromethane	113	10.523	10.527	(1.005)	1066047	50.0000	50.8189
	29 1,1,1-Trichloroethane	97	10.573	10.576	(1.009)	5402	0.50000	0.3827(a)
	30 Carbon Tetrachloride	117	10.779	10.773	(0.929)	4118	0.50000	0.7117
	31 1,1-Dichloropropene	75	10.789	10.793	(0.930)	7071	0.50000	0.5143
$	32 1,2-Dichloroethane-d4	65	11.084	11.088	(0.955)	1568331	50.0000	53.4377
	33 Benzene	78	11.114	11.108	(0.958)	24749	0.50000	0.5120
	34 Methyl tert-Amyl Ether (TAME)	73	11.114	11.108	(0.958)	20735	0.50000	0.5055(A)
	35 1,2-Dichloroethane	62	11.192	11.206	(0.964)	9507	0.50000	0.4739(a)
*	36 1,4-Difluorobenzene	114	11.605	11.609	(1.000)	2890010	50.0000	
	37 Trichloroethene	95	12.009	12.012	(1.035)	4702	0.50000	0.4016(a)
$	38 Trifluorotoluene	146	12.353	12.367	(1.064)	3373	0.50000	0.4416(aA)
	39 1,2-Dichloropropane	63	12.412	12.416	(1.069)	8183	0.50000	0.4942(a)
	40 Dibromomethane	93	12.599	12.603	(1.086)	4115	0.50000	0.4482(a)
	41 Bromodichloromethane	83	12.746	12.750	(1.098)	8535	0.50000	0.4859(a)
	42 2-Chloroethylvinylether	63	13.081	13.085	(1.127)	1651	1.00000	1.4402
	43 Tetramethyl THF	43	13.307	13.311	(1.147)	20551	0.50000	0.5028(A)
	44 cis-1,3-Dichloropropene	75	13.356	13.360	(1.151)	11037	0.50000	0.4850(a)
	45 4-Methyl-2-Pentanone	43	13.484	13.498	(1.162)	13500	0.50000	0.5643
$	46 Toluene-d8	98	13.691	13.694	(1.180)	3275677	50.0000	50.3692
	47 Toluene	92	13.789	13.783	(1.188)	12267	0.50000	0.4720(a)
	48 trans-1,3-Dichloropropene	75	14.104	14.107	(1.215)	10398	0.50000	0.4969(a)
	49 1,1,2-Trichloroethane	85	14.369	14.373	(1.238)	3728	0.50000	0.5376
	50 Tetrachloroethene	166	14.497	14.501	(0.929)	2493	0.50000	0.6795
	51 2-Hexanone	43	14.586	14.589	(0.934)	6730	0.50000	0.4113(a)
	52 1,3-Dichloropropane	76	14.615	14.619	(0.936)	10682	0.50000	0.4798(a)
	53 Dibromochloromethane	129	14.890	14.894	(0.954)	4837	0.50000	0.4530(a)
	54 1,2-Dibromoethane	107	15.097	15.101	(1.301)	5782	0.50000	0.4724(a)
*	55 Chlorobenzene-d5	117	15.609	15.612	(1.000)	2433786	50.0000	
	56 Chlorobenzene	112	15.648	15.652	(1.003)	13548	0.50000	0.5076
	57 Ethylbenzene	91	15.697	15.701	(1.006)	21968	0.50000	0.4871(a)
	58 1,1,1,2-Tetrachloroethane	131	15.727	15.730	(1.008)	3907	0.50000	0.4355(a)
	59 m,p-Xylenes	106	15.835	15.839	(1.014)	13470	1.00000	0.8613
	60 o-Xylene	106	16.336	16.340	(1.047)	7086	0.50000	0.4523(a)
	61 Styrene	104	16.366	16.360	(1.049)	13502	0.50000	0.4764(a)
	62 Bromoform	173	16.661	16.665	(1.067)	4109	0.50000	0.5822
	63 Isopropylbenzene	105	16.730	16.734	(0.913)	15744	0.50000	0.4340(a)
	64 Cyclohexanone	55	16.986	16.980	(0.926)	16781	5.00000	6.5426(A)
$	65 Bromofluorobenzene	95	16.995	16.998	(0.927)	1382208	50.0000	51.9929
	66 1,1,2,2-Tetrachloroethane	83	17.133	17.137	(0.935)	9211	0.50000	0.5232
	67 Bromobenzene	156	17.212	17.206	(0.939)	4621	0.50000	0.5068
	68 Propylbenzene	91	17.202	17.206	(0.938)	20985	0.50000	0.4457(a)
	69 1,2,3-Trichloropropane	110	17.231	17.235	(0.940)	1701	0.50000	0.4249(a)
	70 2-Chlorotoluene	91	17.379	17.383	(0.948)	18216	0.50000	0.5431
	71 1,3,5-Trimethylbenzene	105	17.379	17.383	(0.948)	13031	0.50000	0.4450(a)
	72 4-Chlorotoluene	91	17.507	17.511	(0.955)	16783	0.50000	0.5256
	73 tert-Butylbenzene	119	17.763	17.766	(0.969)	8948	0.50000	0.7896
	74 1,2,4-Trimethylbenzene	105	17.831	17.835	(0.973)	14624	0.50000	0.4806(a)
	75 sec-Butylbenzene	105	18.018	18.022	(0.983)	12723	0.50000	0.6167
	76 para-Isopropyl Toluene	119	18.156	18.160	(0.990)	11055	0.50000	0.7009

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB110.D
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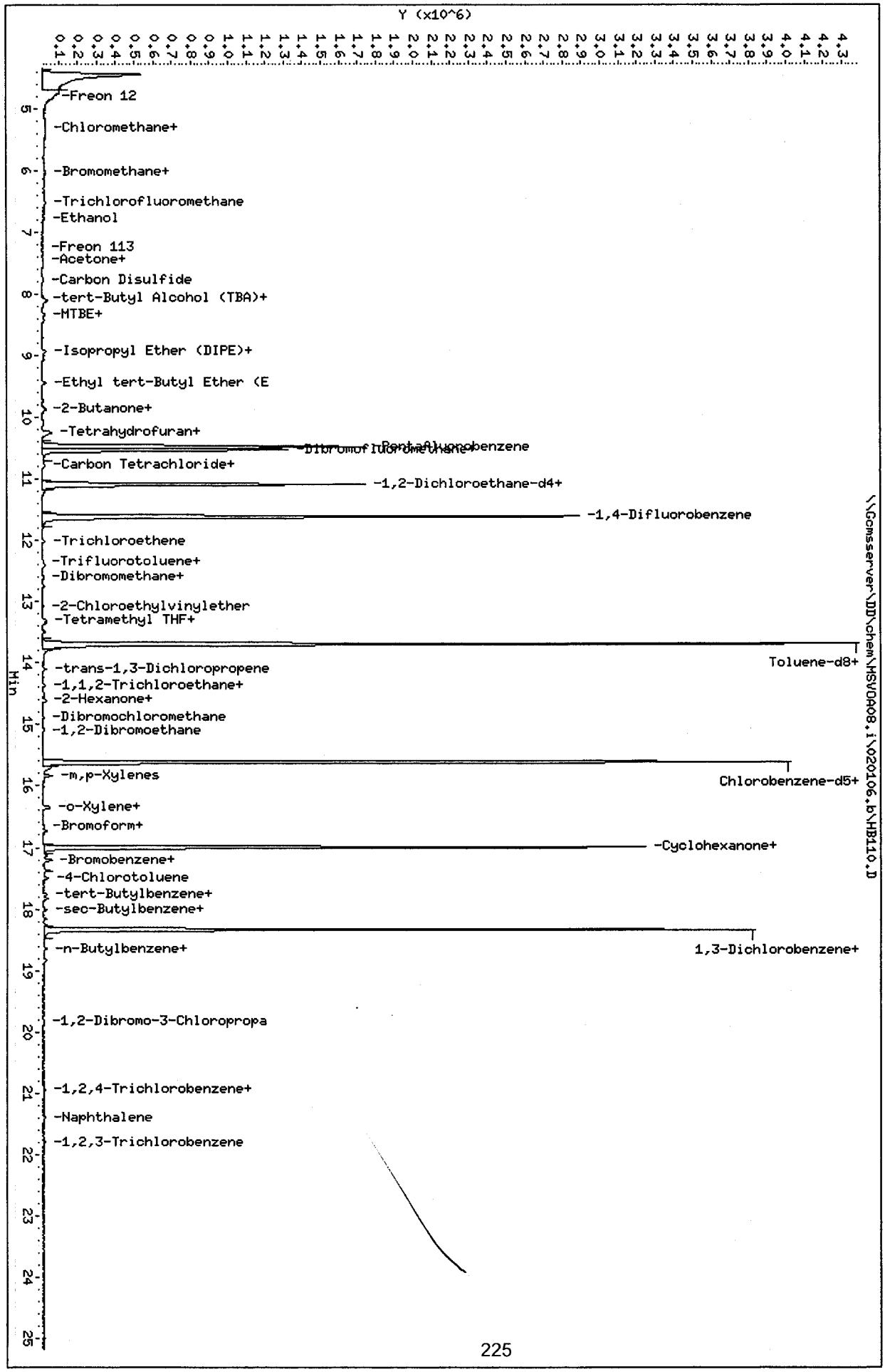
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.264	18.258	(0.996)	8252	0.50000	0.4936(a)
* 78 1,4-Dichlorobenzene-d4	152	18.333	18.337	(1.000)	1019841	50.0000	
79 1,4-Dichlorobenzene	146	18.372	18.366	(1.002)	7977	0.50000	0.4590(a)
80 n-Butylbenzene	91	18.648	18.642	(1.017)	11021	0.50000	0.5363
81 1,2-Dichlorobenzene	146	18.835	18.838	(1.027)	7515	0.50000	0.4680(a)
82 1,2-Dibromo-3-Chloropropane	75	19.828	19.832	(1.082)	1766	0.50000	0.5438
83 1,2,4-Trichlorobenzene	180	20.949	20.963	(1.143)	3391	0.50000	0.4229(a)
84 Hexachlorobutadiene	225	21.067	21.081	(1.149)	561	0.50000	0.4022(a)
85 Naphthalene	128	21.402	21.406	(1.167)	9609	0.50000	0.4330(a)
86 1,2,3-Trichlorobenzene	180	21.795	21.799	(1.189)	3295	0.50000	0.4222(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\HSVOA08.i\020106.b\HB110.D
Date : 01-FEB-2006 15:57
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.001/1000,S2552,0.002/1000,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: HSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB111.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB111.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 16:34 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.002/500,S2552,0.002/500,
Misc Info : S2028,0.001/500,2 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 16:34 Cal File: HB111.D
Als bottle: 11 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.823	4.823	(0.460)	26781	2.00000	1.3937(M)
2 Chloromethane	50	5.325	5.324	(0.508)	54029	2.00000	2.1792(M)
3 Vinyl Chloride	62	5.414	5.413	(0.517)	34330	2.00000	1.8827(M)
4 Bromomethane	94	6.053	6.042	(0.578)	9177	2.00000	1.9340(M)
5 Chloroethane	64	6.191	6.190	(0.591)	23192	2.00000	2.1563(M)
6 Trichlorofluoromethane	101	6.535	6.534	(0.624)	22381	2.00000	1.6851
7 Ethanol	45	6.781	6.790	(0.647)	55079	200.000	189.8147(A)
8 Freon 113	101	7.253	7.252	(0.692)	8700	2.00000	1.4885
9 1,1-Dichloroethene	96	7.351	7.360	(0.702)	15301	2.00000	1.5438
10 Acetone	43	7.459	7.449	(0.712)	26898	2.00000	3.2340
11 Isopropanol	45	7.518	7.527	(0.717)	30452	20.0000	20.7187(A)
12 Carbon Disulfide	76	7.764	7.773	(0.741)	83602	2.00000	1.6899
13 tert-Butyl Alcohol (TBA)	59	8.079	8.077	(0.771)	32300	20.0000	19.4849(A)
14 Methylene Chloride	84	8.099	8.108	(0.773)	40379	2.00000	2.5187(M)
15 MTBE	73	8.335	8.334	(0.795)	82163	2.00000	2.0544
16 trans-1,2-Dichloroethene	96	8.423	8.422	(0.804)	22054	2.00000	1.7634
17 Isopropyl Ether (DIPE)	45	8.935	8.934	(0.853)	145830	2.00000	2.1166(A)
18 Vinyl Acetate	43	9.004	9.003	(0.859)	92601	2.00000	2.0478
19 1,1-Dichloroethane	63	9.063	9.072	(0.865)	54964	2.00000	1.9953
20 Ethyl tert-Butyl Ether (ETBE)	59	9.436	9.445	(0.901)	92238	2.00000	2.0583(A)
21 2-Butanone	43	9.849	9.849	(0.940)	26867	2.00000	2.1330
22 2,2-Dichloropropane	77	9.869	9.868	(0.942)	27856	2.00000	1.7284

LW 2-2-06

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB111.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.879	9.888	(0.943)	26166	2.00000	1.9039
	24 Tetrahydrofuran	42	10.253	10.252	(0.978)	145964	20.0000	21.8635(A)
	25 Bromochloromethane	128	10.253	10.262	(0.978)	11872	2.00000	1.8994
	26 Chloroform	83	10.282	10.281	(0.981)	45453	2.00000	1.9887
*	27 Pentafluorobenzene	168	10.479	10.478	(1.000)	1376448	50.0000	
$	28 Dibromofluoromethane	113	10.528	10.527	(1.005)	1086918	50.0000	50.8302
	29 1,1,1-Trichloroethane	97	10.567	10.576	(1.008)	24880	2.00000	1.7293
	30 Carbon Tetrachloride	117	10.774	10.773	(0.928)	14767	2.00000	1.5430
	31 1,1-Dichloropropene	75	10.784	10.793	(0.929)	24519	2.00000	1.4498
$	32 1,2-Dichloroethane-d4	65	11.089	11.088	(0.955)	1561574	50.0000	52.2629
	33 Benzene	78	11.108	11.108	(0.957)	95194	2.00000	1.9343
	34 Methyl tert-Amyl Ether (TAME)	73	11.108	11.108	(0.957)	82610	2.00000	1.9783(A)
	35 1,2-Dichloroethane	62	11.197	11.206	(0.964)	41968	2.00000	2.0551
*	36 1,4-Difluorobenzene	114	11.610	11.609	(1.000)	2942240	50.0000	
	37 Trichloroethene	95	12.013	12.012	(1.035)	20382	2.00000	1.7102
$	38 Trifluorotoluene	146	12.358	12.367	(1.064)	14261	2.00000	1.2623(A)
	39 1,2-Dichloropropane	63	12.407	12.416	(1.069)	33962	2.00000	2.0146
	40 Dibromomethane	93	12.603	12.603	(1.086)	19265	2.00000	2.0614
	41 Bromodichloromethane	83	12.741	12.750	(1.097)	35917	2.00000	2.0086
	42 2-Chloroethylvinylether	63	13.085	13.085	(1.127)	4671	2.00000	2.0355
	43 Tetramethyl THF	43	13.312	13.311	(1.147)	84674	2.00000	2.0348(A)
	44 cis-1,3-Dichloropropene	75	13.361	13.360	(1.151)	45611	2.00000	1.9689
	45 4-Methyl-2-Pentanone	43	13.489	13.498	(1.162)	45586	2.00000	1.8717
$	46 Toluene-d8	98	13.695	13.694	(1.180)	3303834	50.0000	49.9003
	47 Toluene	92	13.784	13.783	(1.187)	47862	2.00000	1.8090
	48 trans-1,3-Dichloropropene	75	14.108	14.107	(1.215)	40673	2.00000	1.9093
	49 1,1,2-Trichloroethane	85	14.364	14.373	(1.237)	13675	2.00000	1.9370
	50 Tetrachloroethene	166	14.492	14.501	(0.928)	10735	2.00000	1.5932
	51 2-Hexanone	43	14.590	14.589	(0.934)	31655	2.00000	1.9062
	52 1,3-Dichloropropane	76	14.610	14.619	(0.936)	45656	2.00000	2.0206
	53 Dibromochloromethane	129	14.895	14.894	(0.954)	20753	2.00000	1.9151
	54 1,2-Dibromoethane	107	15.092	15.101	(1.300)	23629	2.00000	1.8965
*	55 Chlorobenzene-d5	117	15.613	15.612	(1.000)	2470484	50.0000	
	56 Chlorobenzene	112	15.652	15.652	(1.003)	50986	2.00000	1.8821
	57 Ethylbenzene	91	15.702	15.701	(1.006)	80176	2.00000	1.7516
	58 1,1,1,2-Tetrachloroethane	131	15.731	15.730	(1.008)	16726	2.00000	1.8369
	59 m,p-Xylenes	106	15.839	15.839	(1.014)	55527	4.00000	3.4979
	60 o-Xylene	106	16.341	16.340	(1.047)	29040	2.00000	1.8264
	61 Styrene	104	16.361	16.360	(1.048)	52127	2.00000	1.8120
	62 Bromoform	173	16.666	16.665	(1.067)	13004	2.00000	1.8153
	63 Isopropylbenzene	105	16.734	16.734	(0.913)	59500	2.00000	1.6369
	64 Cyclohexanone	55	16.980	16.980	(0.926)	63331	20.0000	24.6403(A)
$	65 Bromofluorobenzene	95	17.000	16.998	(0.927)	1397565	50.0000	52.4608
	66 1,1,2,2-Tetrachloroethane	83	17.138	17.137	(0.935)	33947	2.00000	1.9243
	67 Bromobenzene	156	17.207	17.206	(0.938)	16755	2.00000	1.8338
	68 Propylbenzene	91	17.207	17.206	(0.938)	77276	2.00000	1.6380
	69 1,2,3-Trichloropropane	110	17.226	17.235	(0.939)	7872	2.00000	1.9624
	70 2-Chlorotoluene	91	17.384	17.383	(0.948)	64733	2.00000	1.9261
	71 1,3,5-Trimethylbenzene	105	17.384	17.383	(0.948)	52538	2.00000	1.7906
	72 4-Chlorotoluene	91	17.502	17.511	(0.954)	61268	2.00000	1.9147
	73 tert-Butylbenzene	119	17.767	17.766	(0.969)	34288	2.00000	1.7478
	74 1,2,4-Trimethylbenzene	105	17.836	17.835	(0.973)	54844	2.00000	1.7988
	75 sec-Butylbenzene	105	18.023	18.022	(0.983)	54254	2.00000	1.5568
	76 para-Isopropyl Toluene	119	18.161	18.160	(0.990)	42352	2.00000	1.6724

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB111.D
Report Date: 02-Feb-2006 10:44

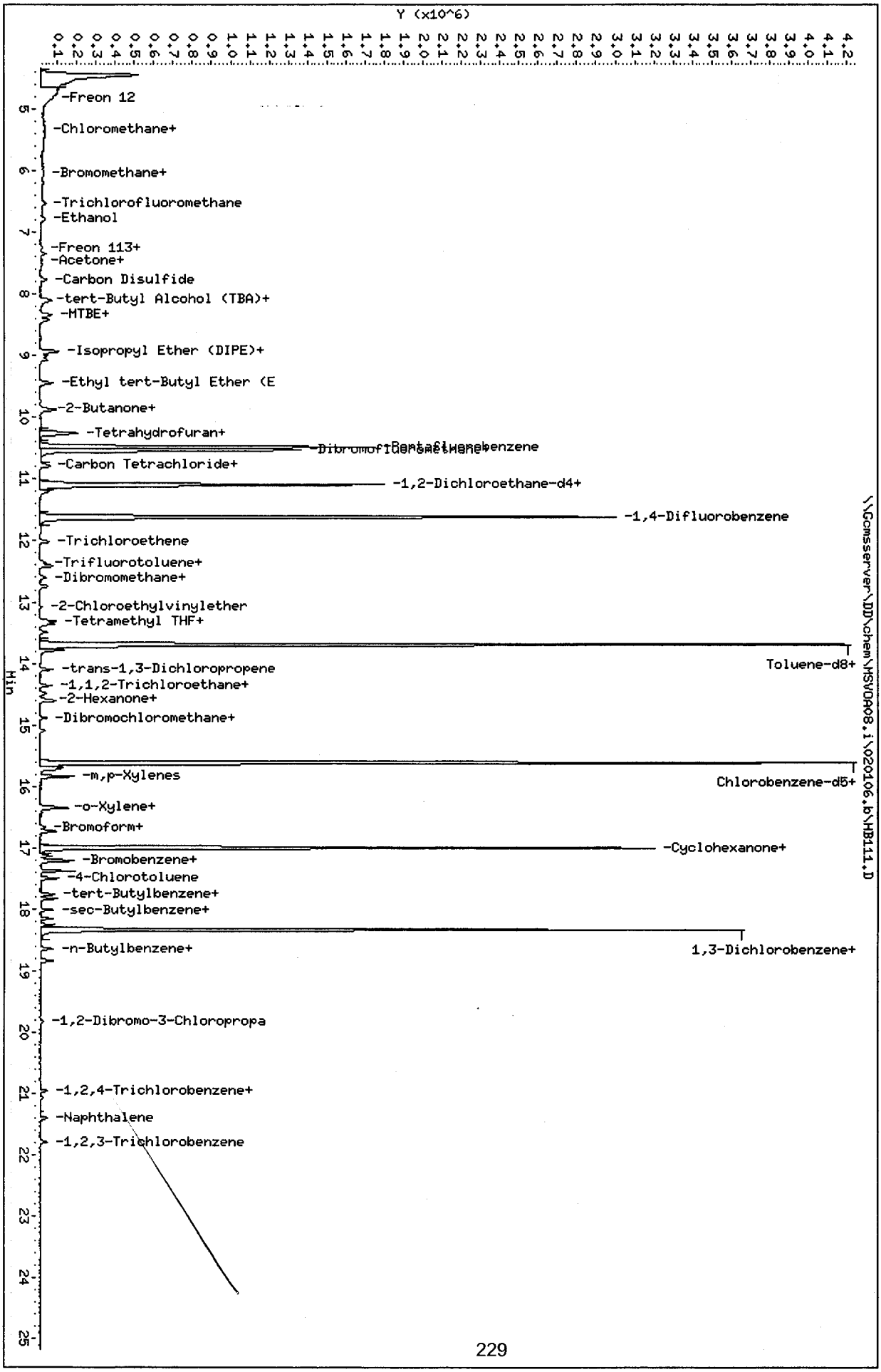
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.259	18.258	(0.996)	30004	2.00000	1.7909
* 78 1,4-Dichlorobenzene-d4	152	18.338	18.337	(1.000)	1021974	50.0000	
79 1,4-Dichlorobenzene	146	18.367	18.366	(1.002)	33450	2.00000	1.9208
80 n-Butylbenzene	91	18.643	18.642	(1.017)	42216	2.00000	1.4637
81 1,2-Dichlorobenzene	146	18.829	18.838	(1.027)	30170	2.00000	1.8749
82 1,2-Dibromo-3-Chloropropane	75	19.833	19.832	(1.082)	7174	2.00000	2.2047
83 1,2,4-Trichlorobenzene	180	20.954	20.963	(1.143)	14086	2.00000	1.7532
84 Hexachlorobutadiene	225	21.062	21.081	(1.149)	2780	2.00000	1.1194
85 Naphthalene	128	21.406	21.406	(1.167)	37770	2.00000	1.6985
86 1,2,3-Trichlorobenzene	180	21.790	21.799	(1.188)	14019	2.00000	1.7926

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\HSVOA08.i\020106.b\HB111.D
Date : 01-FEB-2006 16:34
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.002/500,S2552,0.002/500,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: HSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB112.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB112.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 17:10 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.002/200,S2552,0.002/200,
Misc Info : S2028,0.001/200,5 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 17:10 Cal File: HB112.D
Als bottle: 12 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.829	4.823	(0.461)	72310	5.00000	4.1360(M)
2 Chloromethane	50	5.320	5.324	(0.508)	126396	5.00000	5.2486(M)
3 Vinyl Chloride	62	5.409	5.413	(0.516)	86467	5.00000	4.8820(M)
4 Bromomethane	94	6.048	6.042	(0.577)	32829	5.00000	4.8968(M)
5 Chloroethane	64	6.196	6.190	(0.592)	49301	5.00000	4.7192(M)
6 Trichlorofluoromethane	101	6.530	6.534	(0.623)	62054	5.00000	4.8102
7 Ethanol	45	6.786	6.790	(0.648)	145747	500.000	517.1152(A)
8 Freon 113	101	7.248	7.252	(0.692)	38990	5.00000	4.0571
9 1,1-Dichloroethene	96	7.356	7.360	(0.702)	44525	5.00000	4.6252
10 Acetone	43	7.445	7.449	(0.711)	41137	5.00000	5.0922
11 Isopropanol	45	7.524	7.527	(0.718)	72789	50.0000	50.9866(A)
12 Carbon Disulfide	76	7.769	7.773	(0.742)	236016	5.00000	4.9117
13 tert-Butyl Alcohol (TBA)	59	8.074	8.077	(0.771)	84736	50.0000	52.6270(A)
14 Methylene Chloride	84	8.104	8.108	(0.774)	84786	5.00000	5.4450
15 MTBE	73	8.330	8.334	(0.795)	205424	5.00000	5.2883
16 trans-1,2-Dichloroethene	96	8.419	8.422	(0.804)	59488	5.00000	4.8970
17 Isopropyl Ether (DIPE)	45	8.930	8.934	(0.853)	361694	5.00000	5.4049(A)
18 Vinyl Acetate	43	9.009	9.003	(0.860)	238375	5.00000	5.4272
19 1,1-Dichloroethane	63	9.068	9.072	(0.866)	142604	5.00000	5.3299
20 Ethyl tert-Butyl Ether (ETBE)	59	9.442	9.445	(0.901)	234361	5.00000	5.3843(A)
21 2-Butanone	43	9.855	9.849	(0.941)	65691	5.00000	5.3693
22 2,2-Dichloropropane	77	9.864	9.868	(0.942)	80357	5.00000	5.1333

LW 2-2-06

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB112.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.884	9.888	(0.944)	65201	5.00000	4.8844
	24 Tetrahydrofuran	42	10.248	10.252	(0.978)	371226	50.0000	57.2476(A)
	25 Bromochloromethane	128	10.248	10.262	(0.978)	32071	5.00000	5.2827
	26 Chloroform	83	10.278	10.281	(0.981)	117410	5.00000	5.2890
*	27 Pentafluorobenzene	168	10.474	10.478	(1.000)	1336953	50.0000	
$	28 Dibromofluoromethane	113	10.523	10.527	(1.005)	1064538	50.0000	51.2542
	29 1,1,1-Trichloroethane	97	10.573	10.576	(1.009)	67278	5.00000	4.8145
	30 Carbon Tetrachloride	117	10.769	10.773	(0.928)	48086	5.00000	4.2778
	31 1,1-Dichloropropene	75	10.789	10.793	(0.930)	72725	5.00000	4.1734
$	32 1,2-Dichloroethane-d4	65	11.084	11.088	(0.955)	1559307	50.0000	53.7830
	33 Benzene	78	11.104	11.108	(0.957)	242554	5.00000	5.0795
	34 Methyl tert-Amyl Ether (TAME)	73	11.104	11.108	(0.957)	214610	5.00000	5.2965(A)
	35 1,2-Dichloroethane	62	11.202	11.206	(0.965)	106497	5.00000	5.3746
*	36 1,4-Difluorobenzene	114	11.605	11.609	(1.000)	2854933	50.0000	
	37 Trichloroethene	95	12.009	12.012	(1.035)	56093	5.00000	4.8508
$	38 Trifluorotoluene	146	12.363	12.367	(1.065)	46235	5.00000	3.7931(A)
	39 1,2-Dichloropropane	63	12.412	12.416	(1.069)	85540	5.00000	5.2295
	40 Dibromomethane	93	12.599	12.603	(1.086)	47260	5.00000	5.2116
	41 Bromodichloromethane	83	12.746	12.750	(1.098)	87679	5.00000	5.0534
	42 2-Chloroethylvinylether	63	13.081	13.085	(1.127)	16770	5.00000	4.5322
	43 Tetramethyl THF	43	13.307	13.311	(1.147)	215078	5.00000	5.3267(A)
	44 cis-1,3-Dichloropropene	75	13.356	13.360	(1.151)	115163	5.00000	5.1233
	45 4-Methyl-2-Pentanone	43	13.494	13.498	(1.163)	129555	5.00000	5.4821
$	46 Toluene-d8	98	13.691	13.694	(1.180)	3265445	50.0000	50.8287
	47 Toluene	92	13.789	13.783	(1.188)	121468	5.00000	4.7315
	48 trans-1,3-Dichloropropene	75	14.104	14.107	(1.215)	106343	5.00000	5.1449
	49 1,1,2-Trichloroethane	85	14.369	14.373	(1.238)	34296	5.00000	5.0066
	50 Tetrachloroethene	166	14.497	14.501	(0.929)	32345	5.00000	4.0438
	51 2-Hexanone	43	14.586	14.589	(0.934)	85120	5.00000	5.1888
	52 1,3-Dichloropropane	76	14.615	14.619	(0.936)	115338	5.00000	5.1673
	53 Dibromochloromethane	129	14.891	14.894	(0.954)	52749	5.00000	4.9275
	54 1,2-Dibromoethane	107	15.097	15.101	(1.301)	60496	5.00000	5.0041
*	55 Chlorobenzene-d5	117	15.609	15.612	(1.000)	2440509	50.0000	
	56 Chlorobenzene	112	15.648	15.652	(1.003)	128768	5.00000	4.8119
	57 Ethylbenzene	91	15.697	15.701	(1.006)	216155	5.00000	4.7803
	58 1,1,1,2-Tetrachloroethane	131	15.727	15.730	(1.008)	45608	5.00000	5.0703
	59 m,p-Xylenes	106	15.835	15.839	(1.014)	147830	10.0000	9.4271
	60 o-Xylene	106	16.336	16.340	(1.047)	74271	5.00000	4.7284
	61 Styrene	104	16.356	16.360	(1.048)	137538	5.00000	4.8397
	62 Bromoform	173	16.671	16.665	(1.068)	33320	5.00000	4.7086
	63 Isopropylbenzene	105	16.730	16.734	(0.913)	166411	5.00000	4.5189
	64 Cyclohexanone	55	16.976	16.980	(0.926)	117249	50.0000	45.0281(A)
$	65 Bromofluorobenzene	95	16.995	16.998	(0.927)	1397593	50.0000	51.7830
	66 1,1,2,2-Tetrachloroethane	83	17.133	17.137	(0.935)	92791	5.00000	5.1918
	67 Bromobenzene	156	17.202	17.206	(0.938)	45067	5.00000	4.8686
	68 Propylbenzene	91	17.202	17.206	(0.938)	229240	5.00000	4.7963
	69 1,2,3-Trichloropropane	110	17.231	17.235	(0.940)	21953	5.00000	5.4020
	70 2-Chlorotoluene	91	17.379	17.383	(0.948)	166084	5.00000	4.8778
	71 1,3,5-Trimethylbenzene	105	17.389	17.383	(0.948)	136039	5.00000	4.5764
	72 4-Chlorotoluene	91	17.507	17.511	(0.955)	158334	5.00000	4.8843
	73 tert-Butylbenzene	119	17.763	17.766	(0.969)	104163	5.00000	4.3407
	74 1,2,4-Trimethylbenzene	105	17.831	17.835	(0.973)	147628	5.00000	4.7794
	75 sec-Butylbenzene	105	18.018	18.022	(0.983)	167935	5.00000	4.0827
	76 para-Isopropyl Toluene	119	18.156	18.160	(0.990)	124877	5.00000	4.1857

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB112.D
Report Date: 02-Feb-2006 10:44

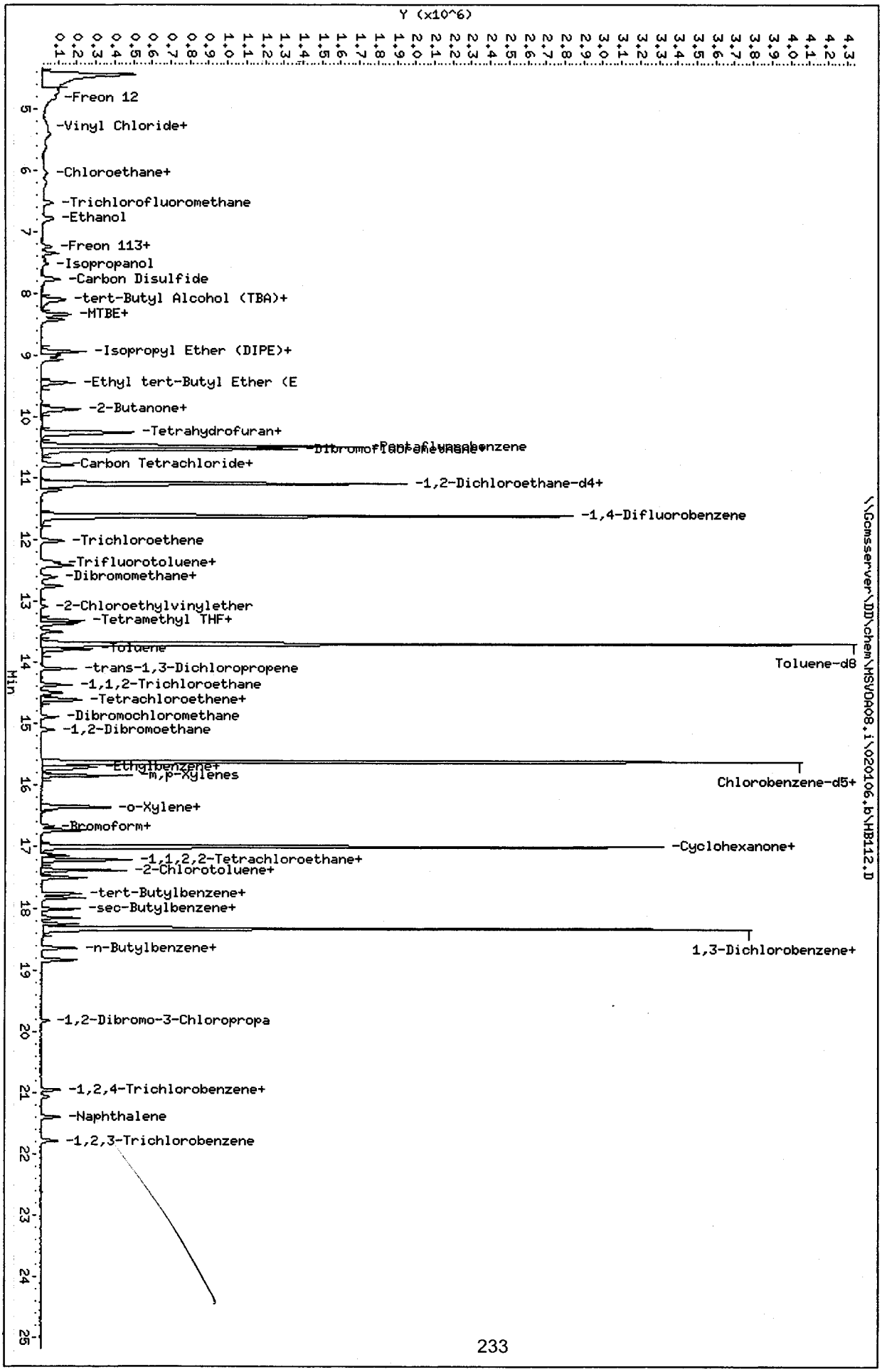
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	77 1,3-Dichlorobenzene	146	18.254	18.258	(0.996)	83366	5.00000	4.9118
*	78 1,4-Dichlorobenzene-d4	152	18.333	18.337	(1.000)	1035372	50.0000	
	79 1,4-Dichlorobenzene	146	18.363	18.366	(1.002)	83847	5.00000	4.7526
	80 n-Butylbenzene	91	18.648	18.642	(1.017)	133923	5.00000	4.1404
	81 1,2-Dichlorobenzene	146	18.835	18.838	(1.027)	78989	5.00000	4.8452
	82 1,2-Dibromo-3-Chloropropane	75	19.838	19.832	(1.082)	16393	5.00000	4.9727
	83 1,2,4-Trichlorobenzene	180	20.959	20.963	(1.143)	38760	5.00000	4.7619
	84 Hexachlorobutadiene	225	21.077	21.081	(1.150)	9989	5.00000	3.4088
	85 Naphthalene	128	21.402	21.406	(1.167)	108748	5.00000	4.8273
	86 1,2,3-Trichlorobenzene	180	21.795	21.799	(1.189)	37527	5.00000	4.7365

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB112.D
Date : 01-FEB-2006 17:10
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.002/200,S2552,0.002/200,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB113.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB113.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 17:47 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.002/100,S2552,0.002/100,
Misc Info : S2028,0.001/100,10 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 17:47 Cal File: HB113.D
Als bottle: 13 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.816	4.823	(0.459)	180826	10.0000	10.2120
2 Chloromethane	50	5.327	5.324	(0.508)	263312	10.0000	10.5752
3 Vinyl Chloride	62	5.416	5.413	(0.517)	203819	10.0000	11.1300
4 Bromomethane	94	6.045	6.042	(0.577)	76870	10.0000	9.9974(M)
5 Chloroethane	64	6.193	6.190	(0.591)	119125	10.0000	11.0287(M)
6 Trichlorofluoromethane	101	6.527	6.534	(0.623)	153053	10.0000	11.4747
7 Ethanol	45	6.783	6.790	(0.647)	299859	1000.00	1028.9771(A)
8 Freon 113	101	7.245	7.252	(0.691)	117145	10.0000	10.3070
9 1,1-Dichloroethene	96	7.353	7.360	(0.702)	115590	10.0000	11.6130
10 Acetone	43	7.452	7.449	(0.711)	84028	10.0000	10.0600
11 Isopropanol	45	7.521	7.527	(0.718)	151004	100.000	102.3009(A)
12 Carbon Disulfide	76	7.766	7.773	(0.741)	562381	10.0000	11.3194
13 tert-Butyl Alcohol (TBA)	59	8.081	8.077	(0.771)	172489	100.000	103.6104(A)
14 Methylene Chloride	84	8.101	8.108	(0.773)	161314	10.0000	10.0196
15 MTBE	73	8.337	8.334	(0.795)	428965	10.0000	10.6804
16 trans-1,2-Dichloroethene	96	8.425	8.422	(0.804)	134649	10.0000	10.7204
17 Isopropyl Ether (DIPE)	45	8.937	8.934	(0.853)	756142	10.0000	10.9283(A)
18 Vinyl Acetate	43	9.006	9.003	(0.859)	527037	10.0000	11.6054
19 1,1-Dichloroethane	63	9.065	9.072	(0.865)	298414	10.0000	10.7871
20 Ethyl tert-Butyl Ether (ETBE)	59	9.438	9.445	(0.901)	485773	10.0000	10.7939(A)
21 2-Butanone	43	9.852	9.849	(0.940)	130789	10.0000	10.3392
22 2,2-Dichloropropane	77	9.871	9.868	(0.942)	189689	10.0000	11.7198

LW 2-2-06

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB113.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.881	9.888	(0.943)	146313	10.0000	10.6009
	24 Tetrahydrofuran	42	10.255	10.252	(0.978)	738822	100.000	110.1944(A)
	25 Bromochloromethane	128	10.255	10.262	(0.978)	64439	10.0000	10.2659
	26 Chloroform	83	10.284	10.281	(0.981)	247936	10.0000	10.8021
*	27 Pentafluorobenzene	168	10.481	10.478	(1.000)	1382341	50.0000	
$	28 Dibromofluoromethane	113	10.530	10.527	(1.005)	1104495	50.0000	51.4320
	29 1,1,1-Trichloroethane	97	10.570	10.576	(1.008)	167345	10.0000	11.5824
	30 Carbon Tetrachloride	117	10.776	10.773	(0.928)	128915	10.0000	10.6027
	31 1,1-Dichloropropene	75	10.796	10.793	(0.930)	191938	10.0000	10.5803
$	32 1,2-Dichloroethane-d4	65	11.091	11.088	(0.955)	1579783	50.0000	53.3235
	33 Benzene	78	11.111	11.108	(0.957)	530418	10.0000	10.8703
	34 Methyl tert-Amyl Ether (TAME)	73	11.111	11.108	(0.957)	450333	10.0000	10.8763(A)
	35 1,2-Dichloroethane	62	11.199	11.206	(0.964)	223586	10.0000	11.0423
*	36 1,4-Difluorobenzene	114	11.612	11.609	(1.000)	2917347	50.0000	
	37 Trichloroethene	95	12.015	12.012	(1.035)	129927	10.0000	10.9954
$	38 Trifluorotoluene	146	12.360	12.367	(1.064)	128498	10.0000	10.0045(A)
	39 1,2-Dichloropropane	63	12.409	12.416	(1.069)	176741	10.0000	10.5740
	40 Dibromomethane	93	12.596	12.603	(1.085)	98219	10.0000	10.5994
	41 Bromodichloromethane	83	12.743	12.750	(1.097)	187752	10.0000	10.5896
	42 2-Chloroethylvinylether	63	13.088	13.085	(1.127)	39304	10.0000	8.9005
	43 Tetramethyl THF	43	13.304	13.311	(1.146)	447845	10.0000	10.8543(A)
	44 cis-1,3-Dichloropropene	75	13.363	13.360	(1.151)	244787	10.0000	10.6570
	45 4-Methyl-2-Pentanone	43	13.491	13.498	(1.162)	248439	10.0000	10.2877
$	46 Toluene-d8	98	13.687	13.694	(1.179)	3281362	50.0000	49.9838
	47 Toluene	92	13.786	13.783	(1.187)	274190	10.0000	10.4519
	48 trans-1,3-Dichloropropene	75	14.101	14.107	(1.214)	228817	10.0000	10.8334
	49 1,1,2-Trichloroethane	85	14.366	14.373	(1.237)	70490	10.0000	10.0702
	50 Tetrachloroethene	166	14.494	14.501	(0.928)	87717	10.0000	10.0019
	51 2-Hexanone	43	14.592	14.589	(0.934)	164363	10.0000	9.7319
	52 1,3-Dichloropropane	76	14.612	14.619	(0.936)	242564	10.0000	10.5555
	53 Dibromochloromethane	129	14.887	14.894	(0.953)	113265	10.0000	10.2770
	54 1,2-Dibromoethane	107	15.094	15.101	(1.300)	129013	10.0000	10.4434
*	55 Chlorobenzene-d5	117	15.615	15.612	(1.000)	2512600	50.0000	
	56 Chlorobenzene	112	15.655	15.652	(1.003)	284104	10.0000	10.3120
	57 Ethylbenzene	91	15.704	15.701	(1.006)	501745	10.0000	10.7779
	58 1,1,1,2-Tetrachloroethane	131	15.733	15.730	(1.008)	94829	10.0000	10.2399
	59 m,p-Xylenes	106	15.842	15.839	(1.014)	347325	20.0000	21.5134
	60 o-Xylene	106	16.343	16.340	(1.047)	168268	10.0000	10.4054
	61 Styrene	104	16.363	16.360	(1.048)	304292	10.0000	10.4003
	62 Bromoform	173	16.668	16.665	(1.067)	69845	10.0000	9.5870
	63 Isopropylbenzene	105	16.737	16.734	(0.913)	431703	10.0000	11.3970
	64 Cyclohexanone	55	16.973	16.980	(0.925)	249568	100.000	93.1786(A)
$	65 Bromofluorobenzene	95	17.002	16.998	(0.927)	1412836	50.0000	50.8922
	66 1,1,2,2-Tetrachloroethane	83	17.130	17.137	(0.934)	193356	10.0000	10.5178
	67 Bromobenzene	156	17.209	17.206	(0.938)	96211	10.0000	10.1048
	68 Propylbenzene	91	17.199	17.206	(0.938)	567003	10.0000	11.5335
	69 1,2,3-Trichloropropane	110	17.228	17.235	(0.939)	44148	10.0000	10.5615
	70 2-Chlorotoluene	91	17.386	17.383	(0.948)	379715	10.0000	10.8420
	71 1,3,5-Trimethylbenzene	105	17.386	17.383	(0.948)	342147	10.0000	11.1901
	72 4-Chlorotoluene	91	17.504	17.511	(0.954)	354595	10.0000	10.6344
	73 tert-Butylbenzene	119	17.769	17.766	(0.969)	273503	10.0000	10.3814
	74 1,2,4-Trimethylbenzene	105	17.838	17.835	(0.973)	343662	10.0000	10.8166
	75 sec-Butylbenzene	105	18.015	18.022	(0.982)	464149	10.0000	10.4170
	76 para-Isopropyl Toluene	119	18.163	18.160	(0.990)	329729	10.0000	10.1858

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB113.D
Report Date: 02-Feb-2006 10:44

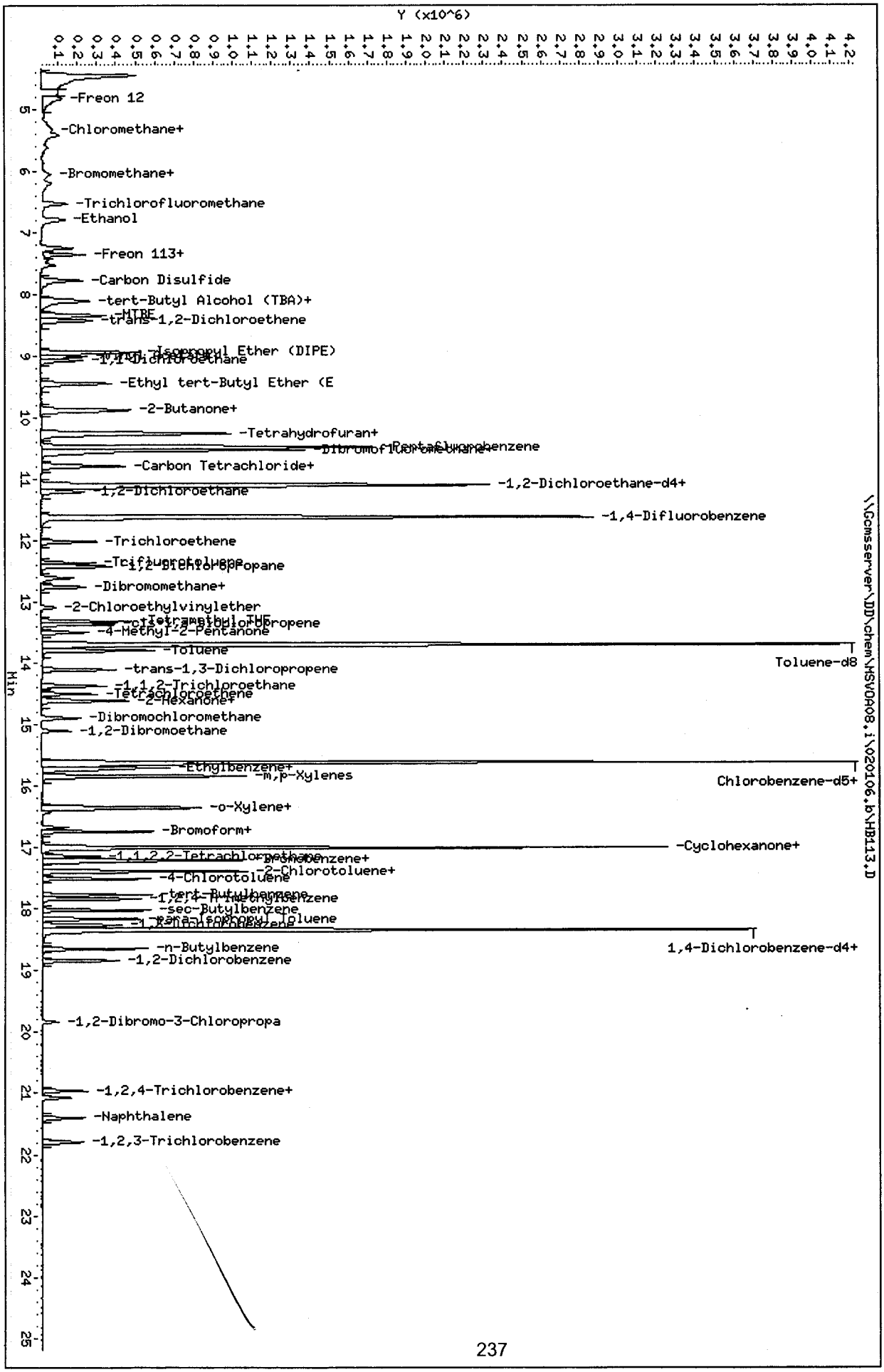
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.261	18.258	(0.996)	179816	10.0000	10.3000
* 78 1,4-Dichlorobenzene-d4	152	18.340	18.337	(1.000)	1064985	50.0000	
79 1,4-Dichlorobenzene	146	18.369	18.366	(1.002)	194789	10.0000	10.7340
80 n-Butylbenzene	91	18.645	18.642	(1.017)	367932	10.0000	10.7117
81 1,2-Dichlorobenzene	146	18.841	18.838	(1.027)	176845	10.0000	10.5462
82 1,2-Dibromo-3-Chloropropane	75	19.825	19.832	(1.081)	34463	10.0000	10.1635
83 1,2,4-Trichlorobenzene	180	20.956	20.963	(1.143)	88343	10.0000	10.5517
84 Hexachlorobutadiene	225	21.074	21.081	(1.149)	31699	10.0000	10.0570
85 Naphthalene	128	21.399	21.406	(1.167)	243792	10.0000	10.5210
86 1,2,3-Trichlorobenzene	180	21.792	21.799	(1.188)	85507	10.0000	10.4923

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB113.D
Date : 01-FEB-2006 17:47
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.002/100,S2552,0.002/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB114.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB114.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 18:24 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.004/100,S2552,0.004/100,
Misc Info : S2028,0.002/100,20 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 18:24 Cal File: HB114.D
Als bottle: 14 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.823	4.823	(0.460)	370534	20.0000	21.4500
2 Chloromethane	50	5.314	5.324	(0.507)	499856	20.0000	20.4252
3 Vinyl Chloride	62	5.413	5.413	(0.517)	391868	20.0000	21.7719
4 Bromomethane	94	6.042	6.042	(0.577)	153992	20.0000	19.3350(M)
5 Chloroethane	64	6.200	6.190	(0.592)	225120	20.0000	21.2051(M)
6 Trichlorofluoromethane	101	6.524	6.534	(0.623)	302651	20.0000	23.0859
7 Ethanol	45	6.790	6.790	(0.648)	600749	2000.00	2097.4218(A)
8 Freon 113	101	7.242	7.252	(0.691)	236536	20.0000	20.3542
9 1,1-Dichloroethene	96	7.350	7.360	(0.702)	219803	20.0000	22.4680
10 Acetone	43	7.449	7.449	(0.711)	166976	20.0000	20.3392
11 Isopropanol	45	7.518	7.527	(0.717)	300282	200.000	206.9782(A)
12 Carbon Disulfide	76	7.764	7.773	(0.741)	1101938	20.0000	22.5659
13 tert-Butyl Alcohol (TBA)	59	8.078	8.077	(0.771)	338059	200.000	206.6040(A)
14 Methylene Chloride	84	8.108	8.108	(0.774)	311554	20.0000	19.6886
15 MTBE	73	8.334	8.334	(0.795)	824285	20.0000	20.8808
16 trans-1,2-Dichloroethene	96	8.423	8.422	(0.804)	258273	20.0000	20.9215
17 Isopropyl Ether (DIPE)	45	8.934	8.934	(0.853)	1437448	20.0000	21.1371(A)
18 Vinyl Acetate	43	9.003	9.003	(0.859)	1026604	20.0000	22.9999
19 1,1-Dichloroethane	63	9.062	9.072	(0.865)	565678	20.0000	20.8047
20 Ethyl tert-Butyl Ether (ETBE)	59	9.436	9.445	(0.901)	935339	20.0000	21.1456(A)
21 2-Butanone	43	9.849	9.849	(0.940)	251185	20.0000	20.2029
22 2,2-Dichloropropane	77	9.868	9.868	(0.942)	356072	20.0000	22.3832

LW 2-2-06

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB114.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.888	9.888	(0.944)	280591	20.0000	20.6842
	24 Tetrahydrofuran	42	10.252	10.252	(0.978)	1432475	200.000	217.3758(A)
	25 Bromochloromethane	128	10.252	10.262	(0.978)	129463	20.0000	20.9846
	26 Chloroform	83	10.281	10.281	(0.981)	480058	20.0000	21.2798
*	27 Pentafluorobenzene	168	10.478	10.478	(1.000)	1358661	50.0000	
$	28 Dibromofluoromethane	113	10.527	10.527	(1.005)	1067532	50.0000	50.5771
	29 1,1,1-Trichloroethane	97	10.577	10.576	(1.009)	320404	20.0000	22.5626
	30 Carbon Tetrachloride	117	10.773	10.773	(0.928)	247688	20.0000	19.9125
	31 1,1-Dichloropropene	75	10.793	10.793	(0.930)	370978	20.0000	20.2228
$	32 1,2-Dichloroethane-d4	65	11.088	11.088	(0.955)	1503527	50.0000	50.4739
	33 Benzene	78	11.108	11.108	(0.957)	1009727	20.0000	20.5809
	34 Methyl tert-Amyl Ether (TAME)	73	11.108	11.108	(0.957)	859185	20.0000	20.6381(A)
	35 1,2-Dichloroethane	62	11.196	11.206	(0.964)	422372	20.0000	20.7466
*	36 1,4-Difluorobenzene	114	11.609	11.609	(1.000)	2933280	50.0000	
	37 Trichloroethene	95	12.013	12.012	(1.035)	253014	20.0000	21.2957
$	38 Trifluorotoluene	146	12.357	12.367	(1.064)	257930	20.0000	19.7920(A)
	39 1,2-Dichloropropane	63	12.406	12.416	(1.069)	333500	20.0000	19.8441
	40 Dibromomethane	93	12.603	12.603	(1.086)	190970	20.0000	20.4969
	41 Bromodichloromethane	83	12.750	12.750	(1.098)	368427	20.0000	20.6672
	42 2-Chloroethylvinylether	63	13.085	13.085	(1.127)	102600	20.0000	20.8651
	43 Tetramethyl THF	43	13.311	13.311	(1.147)	884792	20.0000	21.3281(A)
	44 cis-1,3-Dichloropropene	75	13.360	13.360	(1.151)	479085	20.0000	20.7442
	45 4-Methyl-2-Pentanone	43	13.488	13.498	(1.162)	510252	20.0000	21.0145
$	46 Toluene-d8	98	13.694	13.694	(1.180)	3308192	50.0000	50.1187
	47 Toluene	92	13.783	13.783	(1.187)	562374	20.0000	21.3209
	48 trans-1,3-Dichloropropene	75	14.108	14.107	(1.215)	436119	20.0000	20.5361
	49 1,1,2-Trichloroethane	85	14.373	14.373	(1.238)	142090	20.0000	20.1888
	50 Tetrachloroethene	166	14.501	14.501	(0.929)	170143	20.0000	19.0015
	51 2-Hexanone	43	14.590	14.589	(0.934)	356790	20.0000	21.0969
	52 1,3-Dichloropropane	76	14.609	14.619	(0.936)	473653	20.0000	20.5838
	53 Dibromochloromethane	129	14.894	14.894	(0.954)	226745	20.0000	20.5457
	54 1,2-Dibromoethane	107	15.091	15.101	(1.300)	253136	20.0000	20.3797
*	55 Chlorobenzene-d5	117	15.612	15.612	(1.000)	2516018	50.0000	
	56 Chlorobenzene	112	15.652	15.652	(1.003)	573431	20.0000	20.7854
	57 Ethylbenzene	91	15.701	15.701	(1.006)	1005539	20.0000	21.5705
	58 1,1,1,2-Tetrachloroethane	131	15.730	15.730	(1.008)	190801	20.0000	20.5752
	59 m,p-Xylenes	106	15.839	15.839	(1.014)	710246	40.0000	43.9330
	60 o-Xylene	106	16.340	16.340	(1.047)	341185	20.0000	21.0697
	61 Styrene	104	16.360	16.360	(1.048)	622828	20.0000	21.2585
	62 Bromoform	173	16.665	16.665	(1.067)	142667	20.0000	19.5560
	63 Isopropylbenzene	105	16.734	16.734	(0.913)	865358	20.0000	22.2402
	64 Cyclohexanone	55	16.980	16.980	(0.926)	491556	200.000	178.6641(A)
$	65 Bromofluorobenzene	95	16.999	16.998	(0.927)	1421964	50.0000	49.8637
	66 1,1,2,2-Tetrachloroethane	83	17.137	17.137	(0.935)	392374	20.0000	20.7782
	67 Bromobenzene	156	17.206	17.206	(0.938)	200292	20.0000	20.4789
	68 Propylbenzene	91	17.206	17.206	(0.938)	1160802	20.0000	22.9864
	69 1,2,3-Trichloropropane	110	17.225	17.235	(0.939)	90271	20.0000	21.0233
	70 2-Chlorotoluene	91	17.383	17.383	(0.948)	770050	20.0000	21.4046
	71 1,3,5-Trimethylbenzene	105	17.383	17.383	(0.948)	696538	20.0000	22.1770
	72 4-Chlorotoluene	91	17.511	17.511	(0.955)	707232	20.0000	20.6482
	73 tert-Butylbenzene	119	17.766	17.766	(0.969)	544555	20.0000	19.6995
	74 1,2,4-Trimethylbenzene	105	17.835	17.835	(0.973)	696802	20.0000	21.3503
	75 sec-Butylbenzene	105	18.022	18.022	(0.983)	945752	20.0000	20.3408
	76 para-Isopropyl Toluene	119	18.160	18.160	(0.990)	681102	20.0000	20.1221

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB114.D
Report Date: 02-Feb-2006 10:44

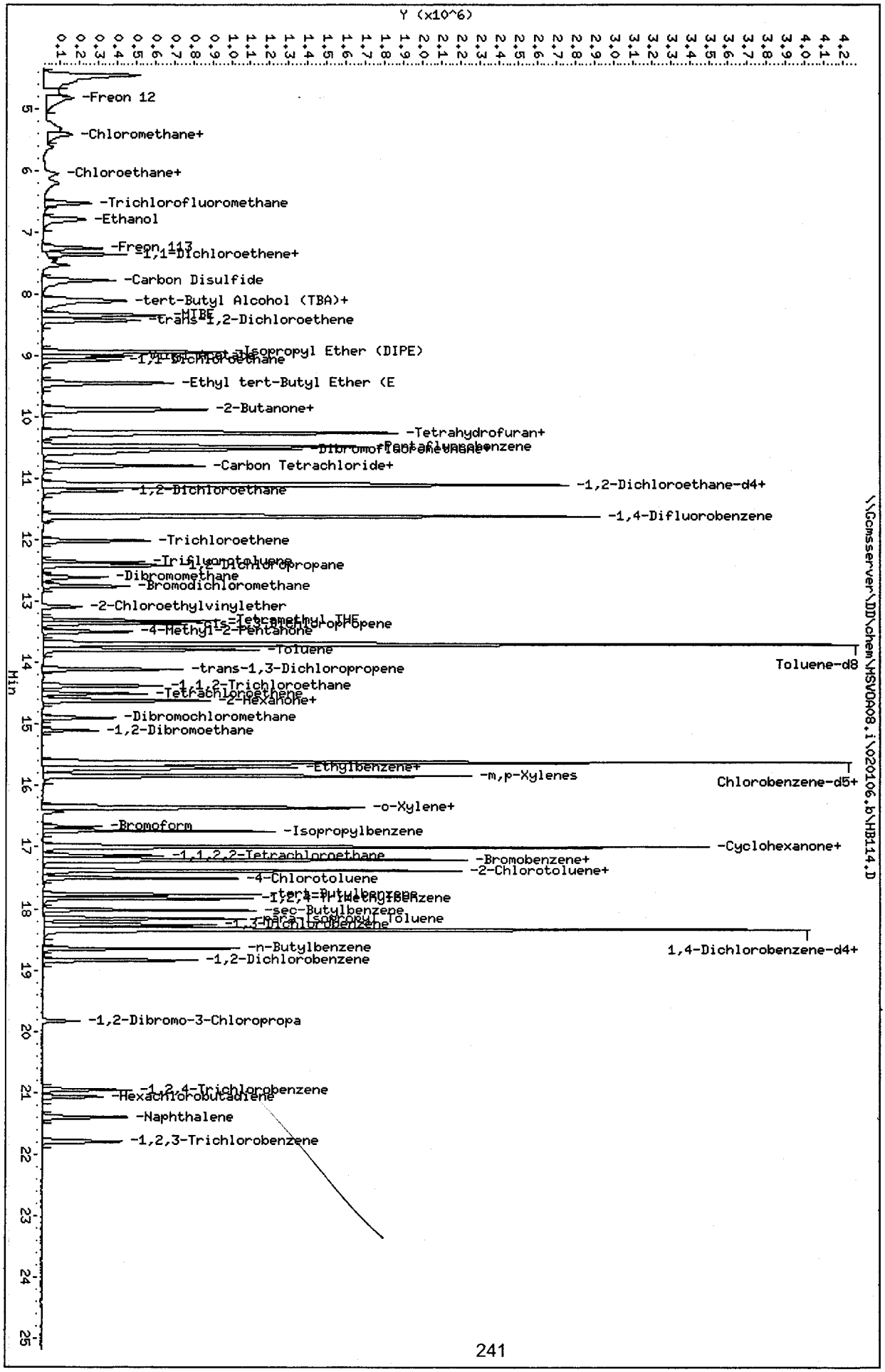
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.258	18.258	(0.996)	372191	20.0000	20.7545
* 78 1,4-Dichlorobenzene-d4	152	18.337	18.337	(1.000)	1093973	50.0000	
79 1,4-Dichlorobenzene	146	18.366	18.366	(1.002)	382797	20.0000	20.5355
80 n-Butylbenzene	91	18.642	18.642	(1.017)	719751	20.0000	20.2111
81 1,2-Dichlorobenzene	146	18.839	18.838	(1.027)	355931	20.0000	20.6637
82 1,2-Dibromo-3-Chloropropane	75	19.832	19.832	(1.082)	70163	20.0000	20.1436
83 1,2,4-Trichlorobenzene	180	20.963	20.963	(1.143)	181185	20.0000	21.0675
84 Hexachlorobutadiene	225	21.071	21.081	(1.149)	65458	20.0000	19.9946
85 Naphthalene	128	21.406	21.406	(1.167)	498087	20.0000	20.9256
86 1,2,3-Trichlorobenzene	180	21.799	21.799	(1.189)	177834	20.0000	21.2433

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Ccmsserver\DD\chem\MSVOA08.i\020106.b\HB114.D
Date : 01-FEB-2006 18:24
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.004/100,S2552,0.004/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB115.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB115.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 19:01 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.01/100,S2552,0.01/100,
Misc Info : S2028,0.005/100,50 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 19:01 Cal File: HB115.D
Als bottle: 15 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.823	4.823	(0.460)	930523	50.0000	52.4696
2 Chloromethane	50	5.325	5.324	(0.508)	1175821	50.0000	46.6114
3 Vinyl Chloride	62	5.413	5.413	(0.517)	980764	50.0000	52.8628
4 Bromomethane	94	6.043	6.042	(0.577)	441750	50.0000	50.5342
5 Chloroethane	64	6.190	6.190	(0.591)	546119	50.0000	49.9047
6 Trichlorofluoromethane	101	6.535	6.534	(0.624)	739563	50.0000	54.7278
7 Ethanol	45	6.790	6.790	(0.648)	1539156	5000.00	5213.1913(A)
8 Freon 113	101	7.243	7.252	(0.691)	632279	50.0000	51.5437
9 1,1-Dichloroethene	96	7.351	7.360	(0.702)	576376	50.0000	57.1565
10 Acetone	43	7.449	7.449	(0.711)	450956	50.0000	53.2895
11 Isopropanol	45	7.518	7.527	(0.717)	758858	500.000	507.4394(A)
12 Carbon Disulfide	76	7.774	7.773	(0.742)	2780929	50.0000	55.2478
13 tert-Butyl Alcohol (TBA)	59	8.079	8.077	(0.771)	837835	500.000	496.7445(A)
14 Methylene Chloride	84	8.108	8.108	(0.774)	759445	50.0000	46.5594
15 MTBE	73	8.335	8.334	(0.795)	2039223	50.0000	50.1145
16 trans-1,2-Dichloroethene	96	8.423	8.422	(0.804)	661330	50.0000	51.9709
17 Isopropyl Ether (DIPE)	45	8.935	8.934	(0.853)	3499392	50.0000	49.9200(A)
18 Vinyl Acetate	43	9.003	9.003	(0.859)	2261476	50.0000	49.1524
19 1,1-Dichloroethane	63	9.062	9.072	(0.865)	1438888	50.0000	51.3391
20 Ethyl tert-Butyl Ether (ETBE)	59	9.436	9.445	(0.901)	2275451	50.0000	49.9054(A)
21 2-Butanone	43	9.849	9.849	(0.940)	643547	50.0000	50.2144
22 2,2-Dichloropropane	77	9.869	9.868	(0.942)	890150	50.0000	54.2845

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB115.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.889	9.888	(0.944)	713135	50.0000	50.9994
	24 Tetrahydrofuran	42	10.243	10.252	(0.977)	3278732	500.000	482.6789(A)
	25 Bromochloromethane	128	10.253	10.262	(0.978)	328166	50.0000	51.6033
	26 Chloroform	83	10.282	10.281	(0.981)	1172293	50.0000	50.4126
*	27 Pentafluorobenzene	168	10.479	10.478	(1.000)	1400499	50.0000	
$	28 Dibromofluoromethane	113	10.528	10.527	(1.005)	1064198	50.0000	48.9130
	29 1,1,1-Trichloroethane	97	10.577	10.576	(1.009)	808443	50.0000	55.2293
	30 Carbon Tetrachloride	117	10.774	10.773	(0.928)	651188	50.0000	51.5380
	31 1,1-Dichloropropene	75	10.794	10.793	(0.930)	965766	50.0000	52.2504
$	32 1,2-Dichloroethane-d4	65	11.089	11.088	(0.955)	1423605	50.0000	47.6134
	33 Benzene	78	11.108	11.108	(0.957)	2499318	50.0000	50.7535
	34 Methyl tert-Amyl Ether (TAME)	73	11.108	11.108	(0.957)	2075934	50.0000	49.6800(A)
	35 1,2-Dichloroethane	62	11.197	11.206	(0.964)	1021991	50.0000	50.0131
*	36 1,4-Difluorobenzene	114	11.610	11.609	(1.000)	2944215	50.0000	
	37 Trichloroethene	95	12.013	12.012	(1.035)	659004	50.0000	55.2611
$	38 Trifluorotoluene	146	12.357	12.367	(1.064)	700214	50.0000	53.2214(A)
	39 1,2-Dichloropropane	63	12.416	12.416	(1.069)	859352	50.0000	50.9438
	40 Dibromomethane	93	12.603	12.603	(1.086)	474736	50.0000	50.7644
	41 Bromodichloromethane	83	12.751	12.750	(1.098)	903105	50.0000	50.4723
	42 2-Chloroethylvinylether	63	13.085	13.085	(1.127)	284057	50.0000	51.8316
	43 Tetramethyl THF	43	13.311	13.311	(1.147)	2049600	50.0000	49.2226(A)
	44 cis-1,3-Dichloropropene	75	13.361	13.360	(1.151)	1163617	50.0000	50.1970
	45 4-Methyl-2-Pentanone	43	13.489	13.498	(1.162)	1204172	50.0000	49.4092
$	46 Toluene-d8	98	13.695	13.694	(1.180)	3305867	50.0000	49.8975
	47 Toluene	92	13.784	13.783	(1.187)	1434889	50.0000	54.1980
	48 trans-1,3-Dichloropropene	75	14.108	14.107	(1.215)	1091556	50.0000	51.2087
	49 1,1,2-Trichloroethane	85	14.364	14.373	(1.237)	359269	50.0000	50.8572
	50 Tetrachloroethene	166	14.502	14.501	(0.929)	478205	50.0000	52.9461
	51 2-Hexanone	43	14.590	14.589	(0.934)	890139	50.0000	52.8961
	52 1,3-Dichloropropane	76	14.610	14.619	(0.936)	1172514	50.0000	51.2085
	53 Dibromochloromethane	129	14.895	14.894	(0.954)	578799	50.0000	52.7071
	54 1,2-Dibromoethane	107	15.092	15.101	(1.300)	641776	50.0000	51.4770
*	55 Chlorobenzene-d5	117	15.613	15.612	(1.000)	2503542	50.0000	
	56 Chlorobenzene	112	15.652	15.652	(1.003)	1434281	50.0000	52.2481
	57 Ethylbenzene	91	15.702	15.701	(1.006)	2557589	50.0000	55.1381
	58 1,1,1,2-Tetrachloroethane	131	15.731	15.730	(1.008)	501249	50.0000	54.3221
	59 m,p-Xylenes	106	15.839	15.839	(1.014)	1835678	100.000	114.1138
	60 o-Xylene	106	16.341	16.340	(1.047)	900267	50.0000	55.8726
	61 Styrene	104	16.361	16.360	(1.048)	1590205	50.0000	54.5477
	62 Bromoform	173	16.665	16.665	(1.067)	376526	50.0000	51.8693
	63 Isopropylbenzene	105	16.734	16.734	(0.913)	2244024	50.0000	56.7747
	64 Cyclohexanone	55	16.980	16.980	(0.926)	1537428	500.000	550.1016(A)
$	65 Bromofluorobenzene	95	17.000	16.998	(0.927)	1419289	50.0000	48.9949
	66 1,1,2,2-Tetrachloroethane	83	17.138	17.137	(0.935)	952550	50.0000	49.6568
	67 Bromobenzene	156	17.206	17.206	(0.938)	523550	50.0000	52.6969
	68 Propylbenzene	91	17.206	17.206	(0.938)	2861439	50.0000	55.7803
	69 1,2,3-Trichloropropane	110	17.236	17.235	(0.940)	224342	50.0000	51.4338
	70 2-Chlorotoluene	91	17.383	17.383	(0.948)	1897470	50.0000	51.9216
	71 1,3,5-Trimethylbenzene	105	17.383	17.383	(0.948)	1800848	50.0000	56.4443
	72 4-Chlorotoluene	91	17.511	17.511	(0.955)	1806715	50.0000	51.9271
	73 tert-Butylbenzene	119	17.767	17.766	(0.969)	1468737	50.0000	51.5595
	74 1,2,4-Trimethylbenzene	105	17.836	17.835	(0.973)	1770801	50.0000	53.4133
	75 sec-Butylbenzene	105	18.023	18.022	(0.983)	2479542	50.0000	51.9800
	76 para-Isopropyl Toluene	119	18.160	18.160	(0.990)	1815332	50.0000	52.2167

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB115.D
Report Date: 02-Feb-2006 10:44

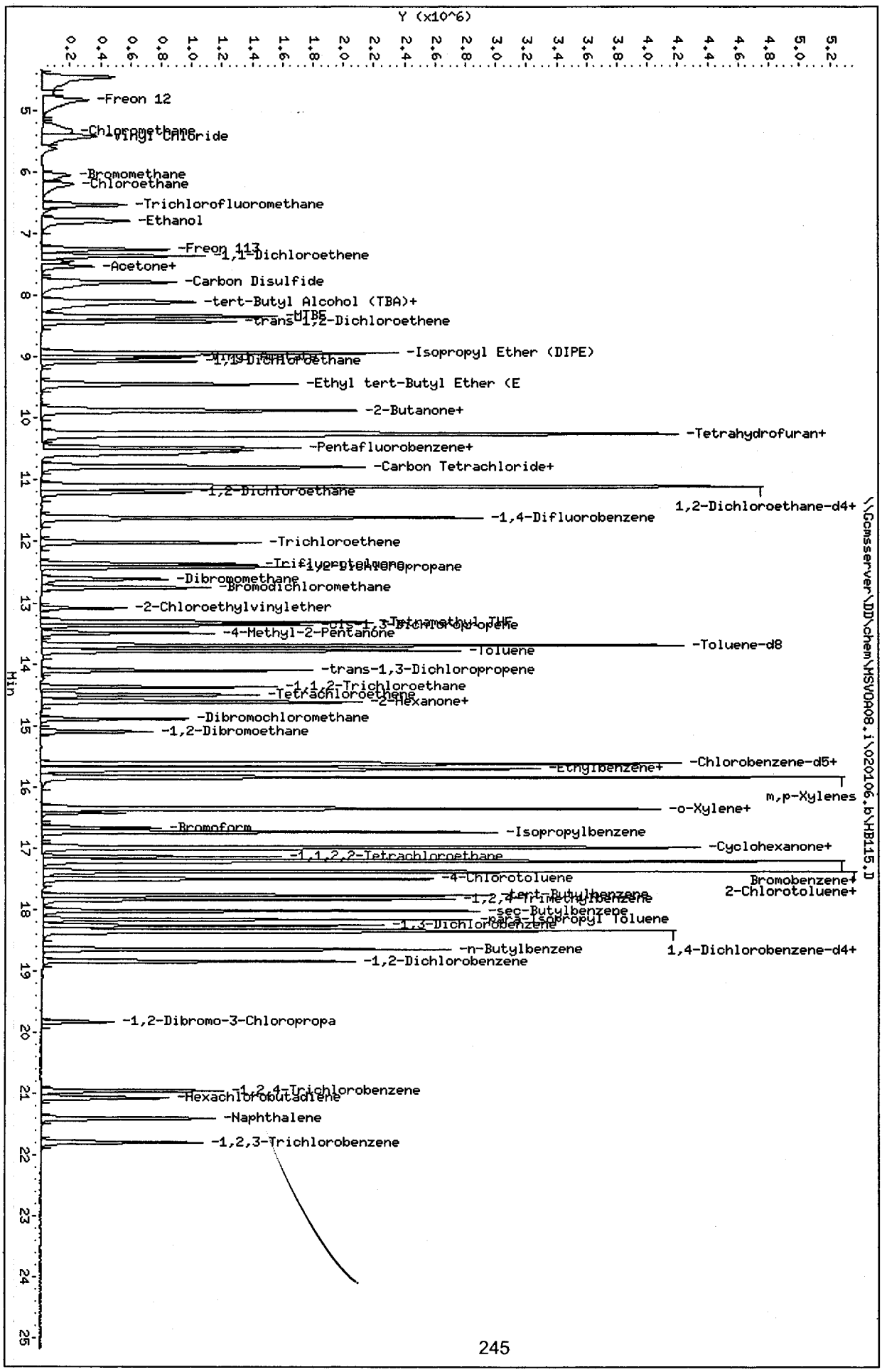
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.259	18.258	(0.996)	953114	50.0000	52.3211
* 78 1,4-Dichlorobenzene-d4	152	18.338	18.337	(1.000)	1111278	50.0000	
79 1,4-Dichlorobenzene	146	18.367	18.366	(1.002)	988301	50.0000	52.1928
80 n-Butylbenzene	91	18.642	18.642	(1.017)	1886532	50.0000	51.8217
81 1,2-Dichlorobenzene	146	18.839	18.838	(1.027)	914453	50.0000	52.2622
82 1,2-Dibromo-3-Chloropropane	75	19.833	19.832	(1.082)	172714	50.0000	48.8137
83 1,2,4-Trichlorobenzene	180	20.964	20.963	(1.143)	475177	50.0000	54.3914
84 Hexachlorobutadiene	225	21.072	21.081	(1.149)	181360	50.0000	54.1542
85 Naphthalene	128	21.406	21.406	(1.167)	1296655	50.0000	53.6269
86 1,2,3-Trichlorobenzene	180	21.800	21.799	(1.189)	453418	50.0000	53.3200

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB115.D
Date : 01-FEB-2006 19:01
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.01/100,S2552,0.01/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB116.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB116.D
Lab Smp Id:
Inj Date : 01-FEB-2006 19:39
Operator : LW
Smp Info : ICAL,S2349,0.015/100,S2552,0.015/100,
Misc Info : S2028,0.0075/100,75 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target
Cal Date : 01-FEB-2006 19:39
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Client Smp ID: DYNA P&T
MS Autotune Date: 30-JAN-2006 09:15
Inst ID: MSVOA08.i
Quant Type: ISTD
Cal File: HB116.D
Calibration Sample, Level: 7
Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.828	4.823	(0.461)	1400535	75.0000	72.8279
2 Chloromethane	50	5.320	5.324	(0.507)	1696018	75.0000	61.9533
3 Vinyl Chloride	62	5.418	5.413	(0.517)	1450595	75.0000	72.0469
4 Bromomethane	94	6.047	6.042	(0.577)	735794	75.0000	74.8099
5 Chloroethane	64	6.185	6.190	(0.590)	795573	75.0000	66.9912
6 Trichlorofluoromethane	101	6.539	6.534	(0.624)	1134715	75.0000	77.3755
7 Ethanol	45	6.795	6.790	(0.648)	2241621	7500.00	6996.2725(A)
8 Freon 113	101	7.247	7.252	(0.691)	987506	75.0000	73.8389
9 1,1-Dichloroethene	96	7.356	7.360	(0.702)	884379	75.0000	80.8131
10 Acetone	43	7.454	7.449	(0.711)	644726	75.0000	70.2048
11 Isopropanol	45	7.523	7.527	(0.718)	1113298	750.000	685.9914(A)
12 Carbon Disulfide	76	7.779	7.773	(0.742)	4197601	75.0000	76.8440
13 tert-Butyl Alcohol (TBA)	59	8.074	8.077	(0.770)	1246291	750.000	680.8909(A)
14 Methylene Chloride	84	8.103	8.108	(0.773)	1151613	75.0000	65.0580
15 MTBE	73	8.339	8.334	(0.795)	3039519	75.0000	68.8315
16 trans-1,2-Dichloroethene	96	8.418	8.422	(0.803)	1041797	75.0000	75.4412
17 Isopropyl Ether (DIPE)	45	8.939	8.934	(0.853)	5059444	75.0000	66.5071(A)
18 Vinyl Acetate	43	9.008	9.003	(0.859)	3326798	75.0000	66.6289
19 1,1-Dichloroethane	63	9.067	9.072	(0.865)	2174728	75.0000	71.5006
20 Ethyl tert-Butyl Ether (ETBE)	59	9.441	9.445	(0.901)	3402434	75.0000	68.7628(A)
21 2-Butanone	43	9.844	9.849	(0.939)	952040	75.0000	68.4522
22 2,2-Dichloropropane	77	9.864	9.868	(0.941)	1329758	75.0000	74.7255

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB116.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.883	9.888	(0.943)	1109240	75.0000	73.0975
	24 Tetrahydrofuran	42	10.247	10.252	(0.977)	4579364	750.000	621.2138(A)
	25 Bromochloromethane	128	10.257	10.262	(0.978)	504685	75.0000	73.1287
	26 Chloroform	83	10.287	10.281	(0.981)	1765409	75.0000	69.9572
*	27 Pentafluorobenzene	168	10.483	10.478	(1.000)	1519845	50.0000	
$	28 Dibromofluoromethane	113	10.533	10.527	(1.005)	1139431	50.0000	48.2584
	29 1,1,1-Trichloroethane	97	10.572	10.576	(1.008)	1264688	75.0000	79.6135
	30 Carbon Tetrachloride	117	10.778	10.773	(0.928)	1004406	75.0000	73.9139
	31 1,1-Dichloropropene	75	10.788	10.793	(0.929)	1454989	75.0000	73.3085
$	32 1,2-Dichloroethane-d4	65	11.083	11.088	(0.954)	1470530	50.0000	45.8343
	33 Benzene	78	11.113	11.108	(0.957)	3844036	75.0000	72.7460
	34 Methyl tert-Amyl Ether (TAME)	73	11.103	11.108	(0.956)	3158348	75.0000	70.4377(A)
	35 1,2-Dichloroethane	62	11.201	11.206	(0.964)	1508905	75.0000	68.8139
*	36 1,4-Difluorobenzene	114	11.615	11.609	(1.000)	3159310	50.0000	
	37 Trichloroethene	95	12.008	12.012	(1.034)	1034412	75.0000	80.8356
$	38 Trifluorotoluene	146	12.362	12.367	(1.064)	1119754	75.0000	79.2261(A)
	39 1,2-Dichloropropane	63	12.411	12.416	(1.069)	1293477	75.0000	71.4590
	40 Dibromomethane	93	12.598	12.603	(1.085)	719256	75.0000	71.6750
	41 Bromodichloromethane	83	12.746	12.750	(1.097)	1367057	75.0000	71.1998
	42 2-Chloroethylvinylether	63	13.080	13.085	(1.126)	457977	75.0000	72.8472
	43 Tetramethyl THF	43	13.306	13.311	(1.146)	3014937	75.0000	67.4763(A)
	44 cis-1,3-Dichloropropene	75	13.365	13.360	(1.151)	1798807	75.0000	72.3153
	45 4-Methyl-2-Pentanone	43	13.493	13.498	(1.162)	1855196	75.0000	70.9392
$	46 Toluene-d8	98	13.690	13.694	(1.179)	3531505	50.0000	49.6742
	47 Toluene	92	13.788	13.783	(1.187)	2194158	75.0000	77.2343
	48 trans-1,3-Dichloropropene	75	14.103	14.107	(1.214)	1622425	75.0000	70.9316
	49 1,1,2-Trichloroethane	85	14.369	14.373	(1.237)	546467	75.0000	72.0898
	50 Tetrachloroethene	166	14.496	14.501	(0.928)	769850	75.0000	78.3924
	51 2-Hexanone	43	14.585	14.589	(0.934)	1302146	75.0000	71.3410
	52 1,3-Dichloropropane	76	14.614	14.619	(0.936)	1783997	75.0000	71.8343
	53 Dibromochloromethane	129	14.890	14.894	(0.953)	907798	75.0000	76.2157
	54 1,2-Dibromoethane	107	15.096	15.101	(1.300)	1013080	75.0000	75.7270
*	55 Chlorobenzene-d5	117	15.618	15.612	(1.000)	2715447	50.0000	
	56 Chlorobenzene	112	15.657	15.652	(1.003)	2235537	75.0000	75.0813
	57 Ethylbenzene	91	15.706	15.701	(1.006)	3794281	75.0000	75.4161
	58 1,1,1,2-Tetrachloroethane	131	15.736	15.730	(1.008)	772359	75.0000	77.1713
	59 m,p-Xylenes	106	15.844	15.839	(1.014)	2712176	150.000	155.4437
	60 o-Xylene	106	16.336	16.340	(1.046)	1361238	75.0000	77.8889
	61 Styrene	104	16.365	16.360	(1.048)	2393581	75.0000	75.6982
	62 Bromoform	173	16.660	16.665	(1.067)	585748	75.0000	74.3944
	63 Isopropylbenzene	105	16.729	16.734	(0.913)	3366424	75.0000	80.2459
	64 Cyclohexanone	55	16.975	16.980	(0.926)	2162872	750.000	729.1311(A)
$	65 Bromofluorobenzene	95	16.995	16.998	(0.927)	1465051	50.0000	47.6496
	66 1,1,2,2-Tetrachloroethane	83	17.132	17.137	(0.935)	1449341	75.0000	71.1850
	67 Bromobenzene	156	17.211	17.206	(0.939)	805064	75.0000	76.3456
	68 Propylbenzene	91	17.201	17.206	(0.938)	4185658	75.0000	76.8754
	69 1,2,3-Trichloropropane	110	17.231	17.235	(0.940)	340834	75.0000	73.6219
	70 2-Chlorotoluene	91	17.378	17.383	(0.948)	2708826	75.0000	69.8363
	71 1,3,5-Trimethylbenzene	105	17.388	17.383	(0.948)	2583990	75.0000	76.3064
	72 4-Chlorotoluene	91	17.506	17.511	(0.955)	2698191	75.0000	73.0641
	73 tert-Butylbenzene	119	17.772	17.766	(0.969)	2242786	75.0000	73.9811
	74 1,2,4-Trimethylbenzene	105	17.831	17.835	(0.973)	2689552	75.0000	76.4340
	75 sec-Butylbenzene	105	18.018	18.022	(0.983)	3728522	75.0000	73.5057
	76 para-Isopropyl Toluene	119	18.165	18.160	(0.991)	2714389	75.0000	73.4160

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB116.D
Report Date: 02-Feb-2006 10:44

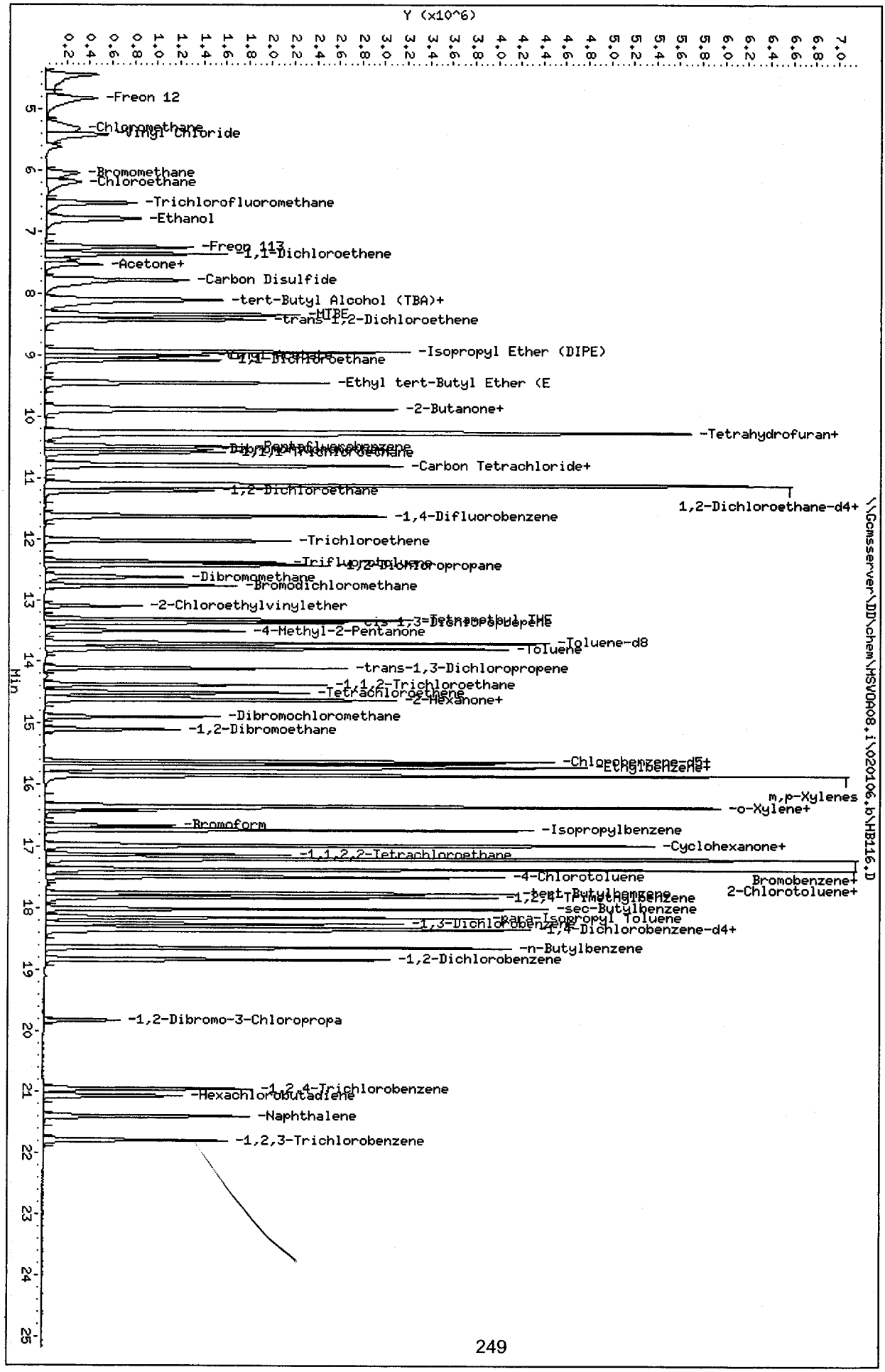
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.263	18.258	(0.996)	1483916	75.0000	76.7481
* 78 1,4-Dichlorobenzene-d4	152	18.332	18.337	(1.000)	1179495	50.0000	
79 1,4-Dichlorobenzene	146	18.362	18.366	(1.002)	1551083	75.0000	77.1761
80 n-Butylbenzene	91	18.647	18.642	(1.017)	2847787	75.0000	73.6147
81 1,2-Dichlorobenzene	146	18.834	18.838	(1.027)	1419114	75.0000	76.4136
82 1,2-Dibromo-3-Chloropropane	75	19.827	19.832	(1.082)	254496	75.0000	67.7675
83 1,2,4-Trichlorobenzene	180	20.958	20.963	(1.143)	748794	75.0000	80.7539
84 Hexachlorobutadiene	225	21.076	21.081	(1.150)	283764	75.0000	79.7270
85 Naphthalene	128	21.401	21.406	(1.167)	2016599	75.0000	78.5786
86 1,2,3-Trichlorobenzene	180	21.794	21.799	(1.189)	716069	75.0000	79.3365

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Gcmsserver\DD\chem\HSVOA08.i\020106.b\HB116.D
Date : 01-FEB-2006 19:39
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.015/100,S2552,0.015/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: HSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB117.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB117.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 20:16 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.02/100,S2552,0.02/100,
Misc Info : S2028,0.01/100,100 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 20:16 Cal File: HB117.D
Als bottle: 17 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.822	4.823	(0.460)	1776530	100.000	93.3652
2 Chloromethane	50	5.324	5.324	(0.508)	2132188	100.000	78.6820
3 Vinyl Chloride	62	5.412	5.413	(0.517)	1834927	100.000	92.0670
4 Bromomethane	94	6.042	6.042	(0.577)	968540	100.000	96.3000
5 Chloroethane	64	6.189	6.190	(0.591)	1004241	100.000	85.4263
6 Trichlorofluoromethane	101	6.533	6.534	(0.624)	1422621	100.000	97.9990
7 Ethanol	45	6.789	6.790	(0.648)	3055950	10000.0	9635.3289(A)
8 Freon 113	101	7.251	7.252	(0.692)	1108421	100.000	83.6229
9 1,1-Dichloroethene	96	7.360	7.360	(0.702)	1075675	100.000	99.2980
10 Acetone	43	7.448	7.449	(0.711)	869729	100.000	95.6734
11 Isopropanol	45	7.527	7.527	(0.718)	1537242	1000.00	956.8971(A)
12 Carbon Disulfide	76	7.773	7.773	(0.742)	5125387	100.000	94.7875
13 tert-Butyl Alcohol (TBA)	59	8.078	8.077	(0.771)	1706326	1000.00	941.7505(A)
14 Methylene Chloride	84	8.107	8.108	(0.774)	1518439	100.000	86.6578
15 MTBE	73	8.333	8.334	(0.795)	3966773	100.000	90.7477
16 trans-1,2-Dichloroethene	96	8.422	8.422	(0.804)	1307904	100.000	95.6792
17 Isopropyl Ether (DIPE)	45	8.933	8.934	(0.853)	6339864	100.000	84.1901(A)
18 Vinyl Acetate	43	9.002	9.003	(0.859)	3833128	100.000	77.5542
19 1,1-Dichloroethane	63	9.071	9.072	(0.866)	2674419	100.000	88.8280
20 Ethyl tert-Butyl Ether (ETBE)	59	9.445	9.445	(0.901)	4264998	100.000	87.0760(A)
21 2-Butanone	43	9.848	9.849	(0.940)	1237107	100.000	89.8577
22 2,2-Dichloropropane	77	9.868	9.868	(0.942)	1516752	100.000	86.1047

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB117.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.887	9.888	(0.944)	1417937	100.000	94.3951
	24 Tetrahydrofuran	42	10.251	10.252	(0.978)	5687343	1000.00	779.4013(A)
	25 Bromochloromethane	128	10.261	10.262	(0.979)	660911	100.000	96.7444
	26 Chloroform	83	10.281	10.281	(0.981)	2200936	100.000	88.1069
*	27 Pentafluorobenzene	168	10.478	10.478	(1.000)	1504470	50.0000	
$	28 Dibromofluoromethane	113	10.527	10.527	(1.005)	1119896	50.0000	47.9158
	29 1,1,1-Trichloroethane	97	10.576	10.576	(1.009)	1500750	100.000	95.4394
	30 Carbon Tetrachloride	117	10.773	10.773	(0.928)	1153194	100.000	86.8638
	31 1,1-Dichloropropene	75	10.792	10.793	(0.930)	1681016	100.000	86.7376
$	32 1,2-Dichloroethane-d4	65	11.087	11.088	(0.955)	1355257	50.0000	43.2708
	33 Benzene	78	11.107	11.108	(0.957)	4600256	100.000	89.1784
	34 Methyl tert-Amyl Ether (TAME)	73	11.107	11.108	(0.957)	3887743	100.000	88.8176(A)
	35 1,2-Dichloroethane	62	11.205	11.206	(0.965)	1905532	100.000	89.0197
*	36 1,4-Difluorobenzene	114	11.609	11.609	(1.000)	3084156	50.0000	
	37 Trichloroethene	95	12.012	12.012	(1.035)	1279140	100.000	102.3960
$	38 Trifluorotoluene	146	12.366	12.367	(1.065)	1307917	100.000	94.7586(A)
	39 1,2-Dichloropropane	63	12.415	12.416	(1.069)	1655848	100.000	93.7075
	40 Dibromomethane	93	12.602	12.603	(1.086)	954795	100.000	97.4654
	41 Bromodichloromethane	83	12.750	12.750	(1.098)	1803115	100.000	96.1992
	42 2-Chloroethylvinylether	63	13.084	13.085	(1.127)	689380	100.000	100.5472
	43 Tetramethyl THF	43	13.310	13.311	(1.147)	3819284	100.000	87.5611(A)
	44 cis-1,3-Dichloropropene	75	13.359	13.360	(1.151)	2306116	100.000	94.9692
	45 4-Methyl-2-Pentanone	43	13.497	13.498	(1.163)	2435972	100.000	95.4168
$	46 Toluene-d8	98	13.694	13.694	(1.180)	3416483	50.0000	49.2273
	47 Toluene	92	13.782	13.783	(1.187)	2718172	100.000	98.0111
	48 trans-1,3-Dichloropropene	75	14.107	14.107	(1.215)	2104101	100.000	94.2318
	49 1,1,2-Trichloroethane	85	14.373	14.373	(1.238)	710438	100.000	96.0046
	50 Tetrachloroethene	166	14.500	14.501	(0.929)	924385	100.000	95.8411
	51 2-Hexanone	43	14.589	14.589	(0.934)	1740655	100.000	97.1910
	52 1,3-Dichloropropane	76	14.618	14.619	(0.936)	2265471	100.000	92.9673
	53 Dibromochloromethane	129	14.894	14.894	(0.954)	1198396	100.000	102.5391
	54 1,2-Dibromoethane	107	15.100	15.101	(1.301)	1310382	100.000	100.3369
*	55 Chlorobenzene-d5	117	15.612	15.612	(1.000)	2664450	50.0000	
	56 Chlorobenzene	112	15.651	15.652	(1.003)	2818310	100.000	96.4656
	57 Ethylbenzene	91	15.700	15.701	(1.006)	4586806	100.000	92.9135
	58 1,1,1,2-Tetrachloroethane	131	15.730	15.730	(1.008)	1009760	100.000	102.8225
	59 m,p-Xylenes	106	15.838	15.839	(1.014)	3321356	200.000	194.0012
	60 o-Xylene	106	16.340	16.340	(1.047)	1691413	100.000	98.6336
	61 Styrene	104	16.359	16.360	(1.048)	3009471	100.000	96.9977
	62 Bromoform	173	16.664	16.665	(1.067)	788196	100.000	102.0228
	63 Isopropylbenzene	105	16.733	16.734	(0.913)	3996927	100.000	95.2507
	64 Cyclohexanone	55	16.979	16.980	(0.926)	2877926	1000.00	969.9339(A)
$	65 Bromofluorobenzene	95	16.999	16.998	(0.927)	1425849	50.0000	46.3626
	66 1,1,2,2-Tetrachloroethane	83	17.136	17.137	(0.935)	1873714	100.000	92.0045
	67 Bromobenzene	156	17.205	17.206	(0.938)	1043589	100.000	98.9398
	68 Propylbenzene	91	17.205	17.206	(0.938)	4830224	100.000	88.6908
	69 1,2,3-Trichloropropane	110	17.235	17.235	(0.940)	449564	100.000	97.0831
	70 2-Chlorotoluene	91	17.382	17.383	(0.948)	3301948	100.000	85.1056
	71 1,3,5-Trimethylbenzene	105	17.382	17.383	(0.948)	3133557	100.000	92.5114
	72 4-Chlorotoluene	91	17.510	17.511	(0.955)	3346354	100.000	90.5922
	73 tert-Butylbenzene	119	17.766	17.766	(0.969)	2651945	100.000	87.3731
	74 1,2,4-Trimethylbenzene	105	17.835	17.835	(0.973)	3332495	100.000	94.6812
	75 sec-Butylbenzene	105	18.022	18.022	(0.983)	4263217	100.000	83.9783
	76 para-Isopropyl Toluene	119	18.159	18.160	(0.990)	3273595	100.000	88.4445

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB117.D
Report Date: 02-Feb-2006 10:44

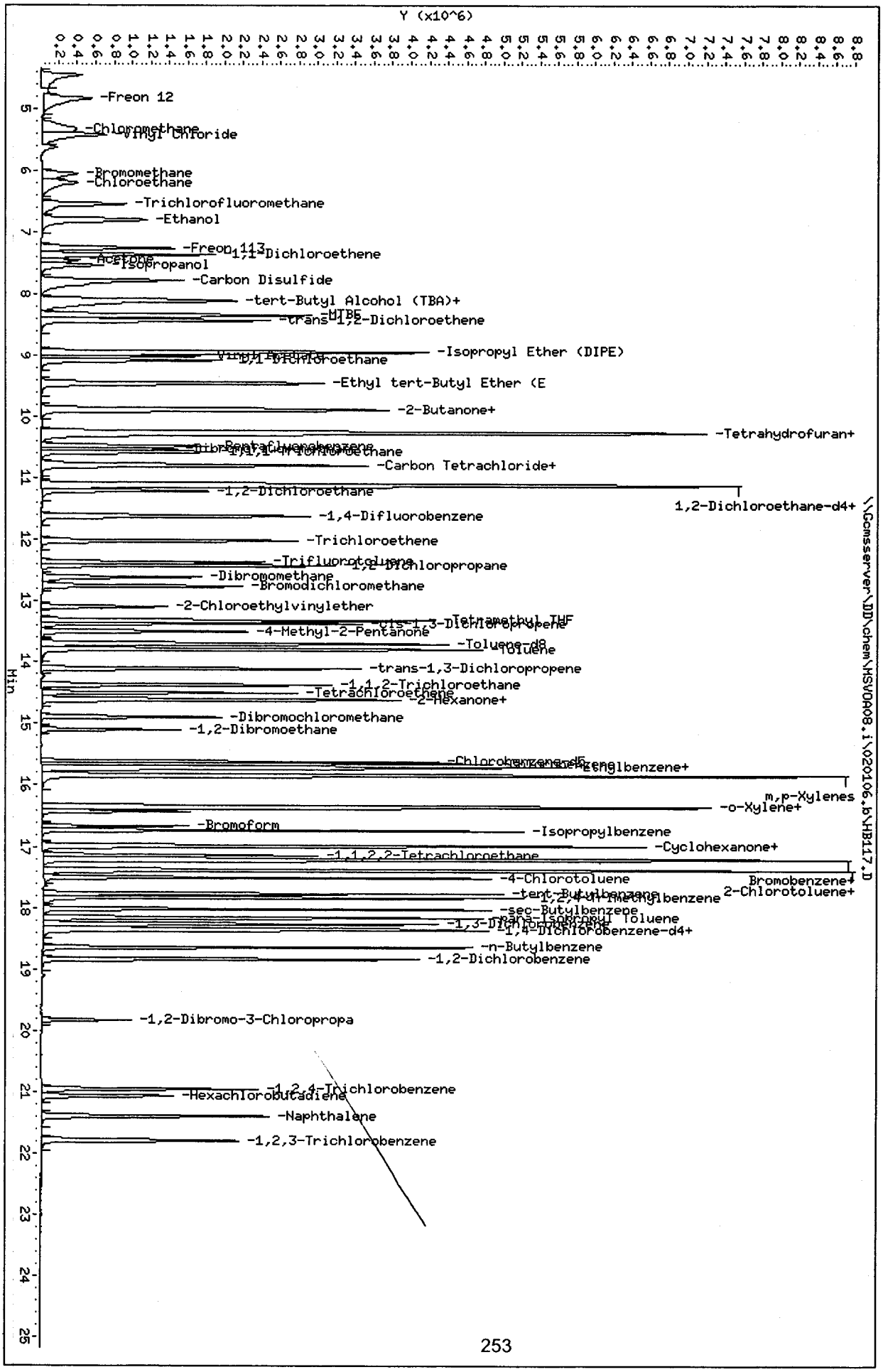
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.258	18.258	(0.996)	1929052	100.000	99.7448
* 78 1,4-Dichlorobenzene-d4	152	18.336	18.337	(1.000)	1179800	50.0000	
79 1,4-Dichlorobenzene	146	18.366	18.366	(1.002)	2006074	100.000	99.7890
80 n-Butylbenzene	91	18.641	18.642	(1.017)	3358910	100.000	86.7675
81 1,2-Dichlorobenzene	146	18.838	18.838	(1.027)	1867970	100.000	100.5567
82 1,2-Dibromo-3-Chloropropane	75	19.831	19.832	(1.082)	342563	100.000	91.1946
83 1,2,4-Trichlorobenzene	180	20.962	20.963	(1.143)	975697	100.000	105.1971
84 Hexachlorobutadiene	225	21.081	21.081	(1.150)	333494	100.000	93.6364
85 Naphthalene	128	21.405	21.406	(1.167)	2825061	100.000	110.0526
86 1,2,3-Trichlorobenzene	180	21.799	21.799	(1.189)	971703	100.000	107.6315

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Gcmsserver\DD\chem\HSVOA08.i\020106.b\HB117.D
Date : 01-FEB-2006 20:16
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.02/100,S2552,0.02/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: HSVOA08.i
Operator: LW
Column diameter: 0.25



CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA08 IDF : 1.0
Seqnum : 476046588018 File : hb118 Time : 01-FEB-2006 20:53
Cal : 476046588001 Caldate: 01-FEB-2006 Caltype: WATER

Standards: S2606 (10000X), S2284 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	0.5796	0.3807	25.00	14.93	ug/L	-40	30	v- ***
Chloromethane	0.9006	0.6647	25.00	18.45	ug/L	-26	30	!v- m
Vinyl Chloride	0.6624	0.5351	25.00	20.20	ug/L	-19	20	
Bromomethane	0.2589	0.2475	25.00	21.00	ug/L	-16	30	m
Chloroethane	0.3907	0.3123	25.00	19.98	ug/L	-20	30	
Trichlorofluoromethane	0.4825	0.4626	25.00	23.97	ug/L	-4	30	

ISTD (ICAL hb115)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1400499	1472319	5.13	10.48	10.47	-0.01
1,4-Difluorobenzene	2944215	3002868	1.99	11.61	11.62	0.01
1,4-Dichlorobenzene-d4	1111278	1106838	-0.40	18.34	18.33	-0.01

LW 2-2-06

!=warning -=low bias m=manual integration v=ICV

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA08 IDF : 1.0
Seqnum : 476046588019 File : hb119 Time : 01-FEB-2006 21:30
Cal : 476046588001 Caldate: 01-FEB-2006 Caltype: WATER

Standards: S2436 (10000X), S2616 (10000X), S2284 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Acetone	0.3021	0.2439	25.00	20.19	ug/L	-19	40	
Freon 113	0.3302	0.4138	25.00	24.04	ug/L	-4	30	
1,1-Dichloroethene	0.3600	0.4229	25.00	29.37	ug/L	17	20	
Methylene Chloride	0.5823	0.5485	25.00	23.55	ug/L	-6	30	
Carbon Disulfide	1.7971	1.5780	25.00	21.95	ug/L	-12	30	
MTBE	1.4527	1.3715	25.00	23.60	ug/L	-6	30	
trans-1,2-Dichloroethene	0.4543	0.4708	25.00	25.91	ug/L	4	30	
Vinyl Acetate	1.6426	1.4765	25.00	22.47	ug/L	-10	40	
1,1-Dichloroethane	1.0006	0.9818	25.00	24.53	ug/L	-2	30	
2-Butanone	0.4575	0.4093	25.00	22.37	ug/L	-11	40	
2,2-Dichloropropane	0.5854	0.5717	25.00	24.41	ug/L	-2	30	
cis-1,2-Dichloroethene	0.4992	0.5262	25.00	26.35	ug/L	5	30	
Chloroform	0.8302	0.8279	25.00	24.93	ug/L	0	20	
Bromochloromethane	0.2270	0.2306	25.00	25.39	ug/L	2	30	
1,1,1-Trichloroethane	0.5226	0.5808	25.00	27.79	ug/L	11	30	
1,1-Dichloropropene	0.2840	0.3294	25.00	26.30	ug/L	5	30	
Carbon Tetrachloride	0.1859	0.2247	25.00	26.37	ug/L	5	30	
1,2-Dichloroethane	0.3470	0.3495	25.00	25.18	ug/L	1	30	
Benzene	0.8363	0.8862	25.00	26.49	ug/L	6	30	
Trichloroethene	0.2025	0.2341	25.00	28.90	ug/L	16	30	
1,2-Dichloropropane	0.2865	0.2883	25.00	25.16	ug/L	1	20	
Bromodichloromethane	0.3039	0.3299	25.00	27.14	ug/L	9	30	
Dibromomethane	0.1588	0.1636	25.00	25.76	ug/L	3	30	
2-Chloroethylvinylether	0.0733	0.0801	25.00	23.61	ug/L	-6	40	
4-Methyl-2-Pentanone	0.4139	0.4111	25.00	24.83	ug/L	-1	40	
Tetramethyl THF	0.7071	0.7380	25.00	26.09	ug/L	4	30	
cis-1,3-Dichloropropene	0.3937	0.4157	25.00	26.40	ug/L	6	30	
Toluene	0.4496	0.5011	25.00	27.86	ug/L	11	20	
trans-1,3-Dichloropropene	0.3620	0.3582	25.00	24.74	ug/L	-1	30	
1,1,2-Trichloroethane	0.1200	0.1261	25.00	26.28	ug/L	5	30	
2-Hexanone	0.3361	0.3374	25.00	25.10	ug/L	0	40	
1,3-Dichloropropane	0.4573	0.4794	25.00	26.21	ug/L	5	30	
Tetrachloroethene	0.1551	0.1968	25.00	27.46	ug/L	10	30	
Dibromochloromethane	0.2193	0.2504	25.00	28.54	ug/L	14	30	
1,2-Dibromoethane	0.2117	0.2272	25.00	26.83	ug/L	7	30	
Chlorobenzene	0.5482	0.5981	25.00	27.27	ug/L	9	30	
1,1,1,2-Tetrachloroethane	0.1843	0.2040	25.00	27.67	ug/L	11	30	
Ethylbenzene	0.9264	1.0588	25.00	28.57	ug/L	14	20	
m,p-Xylenes	0.3213	0.3750	50.00	58.37	ug/L	17	30	
o-Xylene	0.3218	0.3715	25.00	28.86	ug/L	15	30	
Styrene	0.5822	0.6524	25.00	28.01	ug/L	12	30	
Bromoform	0.1450	0.1491	25.00	25.71	ug/L	3	30	
Isopropylbenzene	1.7784	1.9807	25.00	27.85	ug/L	11	30	
1,1,2,2-Tetrachloroethane	0.8631	0.9152	25.00	26.51	ug/L	6	30	
1,2,3-Trichloropropane	0.1962	0.2109	25.00	26.87	ug/L	7	30	
Propylbenzene	2.3081	2.7665	25.00	29.97	ug/L	20	30	
Bromobenzene	0.4470	0.4818	25.00	26.95	ug/L	8	30	
1,3,5-Trimethylbenzene	1.4355	1.6701	25.00	29.09	ug/L	16	30	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
2-Chlorotoluene	1.6443	1.8247	25.00	27.74	ug/L	11	30	
4-Chlorotoluene	1.5655	1.6941	25.00	27.05	ug/L	8	30	
tert-Butylbenzene	1.1200	1.3880	25.00	27.29	ug/L	9	30	
1,2,4-Trimethylbenzene	1.4917	1.6761	25.00	28.09	ug/L	12	30	
sec-Butylbenzene	1.8394	2.3791	25.00	27.87	ug/L	11	30	
para-Isopropyl Toluene	1.3712	1.6227	25.00	26.11	ug/L	4	30	
1,3-Dichlorobenzene	0.8196	0.9071	25.00	27.67	ug/L	11	30	
1,4-Dichlorobenzene	0.8520	0.9389	25.00	27.55	ug/L	10	30	
n-Butylbenzene	1.4409	1.7490	25.00	26.80	ug/L	7	30	
1,2-Dichlorobenzene	0.7873	0.8708	25.00	27.65	ug/L	11	30	
1,2-Dibromo-3-Chloropropane	0.1592	0.1661	25.00	26.08	ug/L	4	30	
1,2,4-Trichlorobenzene	0.3931	0.4313	25.00	27.43	ug/L	10	30	
Hexachlorobutadiene	0.1229	0.1784	25.00	29.70	ug/L	19	30	
Naphthalene	1.0879	1.1792	25.00	27.10	ug/L	8	30	
1,2,3-Trichlorobenzene	0.3826	0.4165	25.00	27.21	ug/L	9	30	
tert-Butyl Alcohol (TBA)	0.0602	0.0578	125.0	120.0	ug/L	-4	30	
Isopropyl Ether (DIPE)	2.5027	2.3832	25.00	23.81	ug/L	-5	30	
Ethyl tert-Butyl Ether (ETBE)	1.6278	1.7254	25.00	26.50	ug/L	6	30	
Methyl tert-Amyl Ether (TAME)	0.7096	0.6886	25.00	24.26	ug/L	-3	30	
Cyclohexanone	0.1257	0.0382	250.0	76.01	ug/L	-70	30	v- ***
Ethanol	0.0105	0.0102	2500	2414	ug/L	-3	30	
Isopropanol	0.0534	0.0501	250.0	234.8	ug/L	-6	30	
Tetrahydrofuran	0.2425	0.2341	250.0	241.3	ug/L	-3	30	

ISTD (ICAL hb115)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1400499	1442265	2.98	10.48	10.47	-0.01
1,4-Difluorobenzene	2944215	2927349	-0.57	11.61	11.62	0.01
Chlorobenzene-d5	2503542	2525552	0.88	15.61	15.62	0.01
1,4-Dichlorobenzene-d4	1111278	1105699	-0.50	18.34	18.33	-0.01

LW 2-2-06

-=low bias v=ICV

CURTIS & TOMPKINS SPIKE USER REPORT FOR EPA 8260B

Inst : MSVOA07 Run Name: QC331551 IDF : 1.0
Seqnum : 466106983005 File : gcf05 Time : 15-MAR-2006 09:05
Cal : 466096970001 Caldate : 08-MAR-2006 Caltype : WATER
Standards: S2616 (10000X), S2807 (10000X), S2902 (10000X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1-Dichloroethene	0.3736	0.4261	25.00	29	ug/L	14	20	0.0500	
Benzene	1.4121	1.3806	25.00	24	ug/L	-2	30	0.0500	
Trichloroethene	0.2946	0.3078	25.00	26	ug/L	4	30	0.0500	
Toluene	0.8121	0.8349	25.00	26	ug/L	3	20	0.0500	
Chlorobenzene	1.0124	0.9798	25.00	24	ug/L	-3	30	0.3000	
Freon 12	0.7271	0.5697	25.00	20	ug/L	**-22**	30	0.0500	!c- !v-
Chloromethane	1.0160	0.8194	25.00	24	ug/L	-4	30	0.1000	
Vinyl Chloride	0.7952	0.7802	25.00	28	ug/L	12	20	0.0500	
Bromomethane	0.5326	0.5150	25.00	30	ug/L	18	30	0.0500	
Chloroethane	0.5174	0.4446	25.00	21	ug/L	-14	30	0.0500	
Trichlorofluoromethane	0.8840	0.8603	25.00	24	ug/L	-3	30	0.0500	!v-
Acetone	0.2212	0.1955	25.00	22	ug/L	-12	40	0.0500	
Freon 113	0.4443	0.4534	25.00	26	ug/L	2	30	0.0500	
Methylene Chloride	0.5963	0.6070	25.00	25	ug/L	2	30	0.0500	
MTBE	1.4828	1.5129	25.00	23	ug/L	-10	30	0.0500	
Carbon Disulfide	1.9040	1.5103	25.00	20	ug/L	**-21**	30	0.0500	!c- !v-
trans-1,2-Dichloroethene	0.5257	0.5461	25.00	26	ug/L	4	30	0.0500	
Vinyl Acetate	1.2546	1.1310	25.00	19	ug/L	-22	40	0.0500	
1,1-Dichloroethane	1.1255	1.0771	25.00	24	ug/L	-4	30	0.1000	
2-Butanone	0.2826	0.2878	25.00	25	ug/L	2	40	0.0500	
cis-1,2-Dichloroethene	0.5402	0.5868	25.00	27	ug/L	9	30	0.0500	
2,2-Dichloropropane	0.7127	0.8256	25.00	29	ug/L	16	30	0.0500	
Chloroform	1.0480	1.0215	25.00	24	ug/L	-3	20	0.0500	
Bromochloromethane	0.2858	0.2778	25.00	24	ug/L	-3	30	0.0500	
1,1,1-Trichloroethane	0.8393	0.8386	25.00	25	ug/L	0	30	0.0500	
1,1-Dichloropropene	0.3732	0.4215	25.00	28	ug/L	13	30	0.0500	
Carbon Tetrachloride	0.3897	0.4048	25.00	26	ug/L	4	30	0.0500	
1,2-Dichloroethane	0.5405	0.5209	25.00	24	ug/L	-4	30	0.0500	
1,2-Dichloropropane	0.3446	0.3484	25.00	25	ug/L	1	20	0.0500	
Bromodichloromethane	0.4141	0.4514	25.00	27	ug/L	9	30	0.0500	
Dibromomethane	0.2031	0.2027	25.00	25	ug/L	0	30	0.0500	
4-Methyl-2-Pentanone	0.3360	0.3474	25.00	24	ug/L	-4	40	0.0500	
cis-1,3-Dichloropropene	0.4911	0.5828	25.00	26	ug/L	2	30	0.0500	
trans-1,3-Dichloropropene	0.4632	0.4824	25.00	26	ug/L	4	30	0.0500	
1,1,2-Trichloroethane	0.1675	0.1710	25.00	26	ug/L	2	30	0.0500	
2-Hexanone	0.2238	0.2341	25.00	25	ug/L	-2	40	0.0500	
1,3-Dichloropropane	0.5822	0.6213	25.00	27	ug/L	7	30	0.0500	
Tetrachloroethene	0.2863	0.3010	25.00	26	ug/L	5	30	0.0500	
Dibromochloromethane	0.2922	0.3240	25.00	28	ug/L	11	30	0.0500	
1,2-Dibromoethane	0.2858	0.2872	25.00	25	ug/L	0	30	0.0500	
2-Chloroethylvinylether	0.1412	0.1774	25.00	25	ug/L	2	40	0.0500	
1,1,1,2-Tetrachloroethane	0.3389	0.3349	25.00	25	ug/L	-1	30	0.0500	
Ethylbenzene	1.5155	1.7066	25.00	28	ug/L	13	20	0.0500	
m,p-Xylenes	0.5688	0.6737	50.00	53	ug/L	5	30	0.0500	
o-Xylene	0.5099	0.6382	25.00	27	ug/L	7	30	0.0500	
Styrene	0.8523	1.0555	25.00	25	ug/L	-1	30	0.0500	
Bromoform	0.2051	0.1946	25.00	24	ug/L	-5	30	0.1000	
Isopropylbenzene	1.9702	2.5005	25.00	27	ug/L	8	30	0.0500	
1,1,2,2-Tetrachloroethane	0.8243	0.8213	25.00	25	ug/L	0	30	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.8330	0.8207	25.00	25	ug/L	-1	30	0.0500	
Propylbenzene	2.9623	3.7429	25.00	32	ug/L	**26**	30	0.0500	!c+
Bromobenzene	0.6984	0.7050	25.00	25	ug/L	1	30	0.0500	
1,3,5-Trimethylbenzene	2.0134	2.5273	25.00	28	ug/L	11	30	0.0500	
2-Chlorotoluene	2.1397	2.5541	25.00	30	ug/L	19	30	0.0500	
4-Chlorotoluene	1.9400	2.2830	25.00	29	ug/L	18	30	0.0500	
tert-Butylbenzene	1.5827	2.0801	25.00	29	ug/L	14	30	0.0500	
1,2,4-Trimethylbenzene	2.0305	2.6156	25.00	27	ug/L	9	30	0.0500	
sec-Butylbenzene	2.4182	3.2730	25.00	29	ug/L	17	30	0.0500	
para-Isopropyl Toluene	2.0237	2.5981	25.00	27	ug/L	8	30	0.0500	
1,3-Dichlorobenzene	1.3836	1.4223	25.00	26	ug/L	3	30	0.0500	
1,4-Dichlorobenzene	1.5594	1.5064	25.00	24	ug/L	-3	30	0.0500	
n-Butylbenzene	2.0647	2.7265	25.00	29	ug/L	17	30	0.0500	
1,2-Dichlorobenzene	1.3421	1.3851	25.00	26	ug/L	3	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1573	0.1596	25.00	24	ug/L	-2	30	0.0500	
1,2,4-Trichlorobenzene	0.9365	1.0305	25.00	28	ug/L	10	30	0.0500	
Hexachlorobutadiene	0.3746	0.4379	25.00	29	ug/L	17	30	0.0500	
Naphthalene	2.0582	2.6231	25.00	25	ug/L	-1	30	0.0500	
1,2,3-Trichlorobenzene	0.9432	0.9985	25.00	26	ug/L	6	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0382	0.0462	125.0	150	ug/L	**21**	30	0.0050	!c+
Isopropyl Ether (DIPE)	1.7865	2.0027	25.00	24	ug/L	-3	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.3859	1.6901	25.00	26	ug/L	5	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.8460	0.9004	25.00	24	ug/L	-5	30	0.0500	
Isopropanol	0.0284	0.0362	250.0	320	ug/L	**28**	30	0.0050	!c+
Ethanol	0.0071	0.0091	2500	3200	ug/L	**28**	30	5.0E-4	!c+
Cyclohexanone	0.0674	0.0262	250.0	110	ug/L	**-56**	30	0.0050	c- v- ***
Tetrahydrofuran	0.1870	0.2139	250.0	250	ug/L	0	30	0.0050	
Tetramethyl THF	0.5813	0.6851	25.00	24	ug/L	-4	30	0.0500	
Dibromofluoromethane	0.5393	0.5240	50.00	49	ug/L	-3	30	0.0500	
1,2-Dichloroethane-d4	0.4518	0.4484	50.00	50	ug/L	-1	30	0.0500	
Toluene-d8	1.1658	1.1928	50.00	51	ug/L	2	30	0.0500	
Bromofluorobenzene	0.9370	0.9623	50.00	51	ug/L	3	30	0.0500	

ISTD (ICAL gc814)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	542122	493722	-8.93	10.13	10.13	0.00
1,4-Difluorobenzene	912316	852620	-6.54	11.28	11.28	0.00
Chlorobenzene-d5	888382	795248	-10.48	15.38	15.38	0.00
1,4-Dichlorobenzene-d4	555422	458822	-17.39	18.10	18.10	0.00

LW 3-15-06

03/16/06

!=warning +=high bias -=low bias c=CCV v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA08 Run Name: 40 PPB IDF : 1.0
Seqnum : 476106989003 File : hcf03 Time : 15-MAR-2006 08:07
Cal : 476046588001 Caldate : 01-FEB-2006 Caltype : WATER
Standards: S2844 (12500X), S2783 (12500X), S2410 (25000X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.5796	0.5371	40.00	33.88	ug/L	-15	30	0.0500	
Chloromethane	0.9006	0.9051	40.00	40.20	ug/L	1	30	0.1000	
Vinyl Chloride	0.6624	0.7634	40.00	46.10	ug/L	15	20	0.0500	
Bromomethane	0.2589	0.2841	40.00	37.21	ug/L	-7	30	0.0500	m
Chloroethane	0.3907	0.4364	40.00	44.68	ug/L	12	30	0.0500	
Trichlorofluoromethane	0.4825	0.6419	40.00	53.22	ug/L	**33**	30	0.0500	c+ ***
Acetone	0.3021	0.2907	40.00	38.49	ug/L	-4	40	0.0500	
Freon 113	0.3302	0.4711	40.00	43.16	ug/L	8	30	0.0500	
1,1-Dichloroethene	0.3600	0.3789	40.00	42.10	ug/L	5	20	0.0500	
Methylene Chloride	0.5823	0.5085	40.00	34.93	ug/L	-13	30	0.0500	
Carbon Disulfide	1.7971	1.8384	40.00	40.92	ug/L	2	30	0.0500	
MTBE	1.4527	1.5116	40.00	41.62	ug/L	4	30	0.0500	
trans-1,2-Dichloroethene	0.4543	0.4451	40.00	39.19	ug/L	-2	30	0.0500	
Vinyl Acetate	1.6426	1.9231	40.00	46.83	ug/L	17	40	0.0500	
1,1-Dichloroethane	1.0006	1.0354	40.00	41.39	ug/L	3	30	0.1000	
2-Butanone	0.4575	0.4440	40.00	38.81	ug/L	-3	40	0.0500	
2,2-Dichloropropane	0.5854	0.7075	40.00	48.34	ug/L	**21**	30	0.0500	!c+
cis-1,2-Dichloroethene	0.4992	0.4920	40.00	39.42	ug/L	-1	30	0.0500	
Chloroform	0.8302	0.8708	40.00	41.95	ug/L	5	20	0.0500	
Bromochloromethane	0.2270	0.2202	40.00	38.80	ug/L	-3	30	0.0500	
1,1,1-Trichloroethane	0.5226	0.6207	40.00	47.51	ug/L	19	30	0.0500	
1,1-Dichloropropene	0.2840	0.3231	40.00	41.20	ug/L	3	30	0.0500	
Carbon Tetrachloride	0.1859	0.2200	40.00	41.08	ug/L	3	30	0.0500	
1,2-Dichloroethane	0.3470	0.3544	40.00	40.85	ug/L	2	30	0.0500	
Benzene	0.8363	0.8373	40.00	40.05	ug/L	0	30	0.0500	
Trichloroethene	0.2025	0.2080	40.00	41.08	ug/L	3	30	0.0500	
1,2-Dichloropropane	0.2865	0.2808	40.00	39.21	ug/L	-2	20	0.0500	
Bromodichloromethane	0.3039	0.3052	40.00	40.17	ug/L	0	30	0.0500	
Dibromomethane	0.1588	0.1505	40.00	37.90	ug/L	-5	30	0.0500	
2-Chloroethylvinylether	0.0733	0.0666	40.00	30.59	ug/L	-24	40	0.0500	
4-Methyl-2-Pentanone	0.4139	0.3928	40.00	37.96	ug/L	-5	40	0.0500	
Tetramethyl THF	0.7071	0.7501	40.00	42.43	ug/L	6	30	0.0500	
cis-1,3-Dichloropropene	0.3937	0.3885	40.00	39.48	ug/L	-1	30	0.0500	
Toluene	0.4496	0.4557	40.00	40.54	ug/L	1	20	0.0500	
trans-1,3-Dichloropropene	0.3620	0.3479	40.00	38.44	ug/L	-4	30	0.0500	
1,1,2-Trichloroethane	0.1200	0.1143	40.00	38.11	ug/L	-5	30	0.0500	
2-Hexanone	0.3361	0.3223	40.00	38.36	ug/L	-4	40	0.0500	
1,3-Dichloropropane	0.4573	0.4476	40.00	39.15	ug/L	-2	30	0.0500	
Tetrachloroethene	0.1551	0.1744	40.00	38.79	ug/L	-3	30	0.0500	
Dibromochloromethane	0.2193	0.2160	40.00	39.40	ug/L	-2	30	0.0500	
1,2-Dibromoethane	0.2117	0.1988	40.00	37.57	ug/L	-6	30	0.0500	
Chlorobenzene	0.5482	0.5439	40.00	39.69	ug/L	-1	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1843	0.1864	40.00	40.46	ug/L	1	30	0.0500	
Ethylbenzene	0.9264	0.9988	40.00	43.13	ug/L	8	20	0.0500	
m,p-Xylenes	0.3213	0.3536	80.00	88.05	ug/L	10	30	0.0500	
o-Xylene	0.3218	0.3451	40.00	42.89	ug/L	7	30	0.0500	
Styrene	0.5822	0.6042	40.00	41.51	ug/L	4	30	0.0500	
Bromoform	0.1450	0.1295	40.00	35.72	ug/L	-11	30	0.1000	
Isopropylbenzene	1.7784	2.0303	40.00	45.67	ug/L	14	30	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.8631	0.8225	40.00	38.12	ug/L	-5	30	0.3000	
1,2,3-Trichloropropane	0.1962	0.2005	40.00	40.88	ug/L	2	30	0.0500	
Propylbenzene	2.3081	2.8066	40.00	48.64	ug/L	**22**	30	0.0500	!c+
Bromobenzene	0.4470	0.4567	40.00	40.87	ug/L	2	30	0.0500	
1,3,5-Trimethylbenzene	1.4355	1.6441	40.00	45.81	ug/L	15	30	0.0500	
2-Chlorotoluene	1.6443	1.7939	40.00	43.64	ug/L	9	30	0.0500	
4-Chlorotoluene	1.5655	1.6186	40.00	41.36	ug/L	3	30	0.0500	
tert-Butylbenzene	1.1200	1.3042	40.00	40.80	ug/L	2	30	0.0500	
1,2,4-Trimethylbenzene	1.4917	1.5821	40.00	42.43	ug/L	6	30	0.0500	
sec-Butylbenzene	1.8394	2.2244	40.00	41.52	ug/L	4	30	0.0500	
para-Isopropyl Toluene	1.3712	1.5475	40.00	39.66	ug/L	-1	30	0.0500	
1,3-Dichlorobenzene	0.8196	0.8260	40.00	40.31	ug/L	1	30	0.0500	
1,4-Dichlorobenzene	0.8520	0.8689	40.00	40.79	ug/L	2	30	0.0500	
n-Butylbenzene	1.4409	1.6278	40.00	39.80	ug/L	0	30	0.0500	
1,2-Dichlorobenzene	0.7873	0.7866	40.00	39.97	ug/L	0	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1592	0.1394	40.00	35.02	ug/L	-12	30	0.0500	
1,2,4-Trichlorobenzene	0.3931	0.3574	40.00	36.37	ug/L	-9	30	0.0500	
Hexachlorobutadiene	0.1229	0.1359	40.00	36.16	ug/L	-10	30	0.0500	
Naphthalene	1.0879	1.0282	40.00	37.80	ug/L	-5	30	0.0500	
1,2,3-Trichlorobenzene	0.3826	0.3394	40.00	35.48	ug/L	-11	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0602	0.0569	400.0	378.2	ug/L	-5	30	0.0050	
Isopropyl Ether (DIPE)	2.5027	2.8620	40.00	45.74	ug/L	14	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.6278	1.7836	40.00	43.83	ug/L	10	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.7096	0.6783	40.00	38.24	ug/L	-4	30	0.0500	
Cyclohexanone	0.1257	0.1225	400.0	389.8	ug/L	-3	30	0.0050	
Ethanol	0.0105	0.0105	4000	3985	ug/L	0	30	5.0E-4	
Isopropanol	0.0534	0.0530	400.0	396.7	ug/L	-1	30	0.0050	
Tetrahydrofuran	0.2425	0.2451	400.0	404.2	ug/L	1	30	0.0050	
Dibromofluoromethane	0.7768	0.8120	50.00	52.27	ug/L	5	30	0.0500	
1,2-Dichloroethane-d4	0.5078	0.5502	50.00	54.18	ug/L	8	30	0.0500	
Trifluorotoluene	0.1908	0.2134	40.00	38.25	ug/L	-4	30	0.0500	
Toluene-d8	1.1251	1.1445	50.00	50.86	ug/L	2	30	0.0500	
Bromofluorobenzene	1.3034	1.3012	50.00	49.92	ug/L	0	30	0.0500	

ISTD (ICAL hb115)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1400499	996745	-28.83	10.48	10.48	0.00
1,4-Difluorobenzene	2944215	2186597	-25.73	11.61	11.61	0.00
Chlorobenzene-d5	2503542	1853169	-25.98	15.61	15.62	0.01
1,4-Dichlorobenzene-d4	1111278	810678	-27.05	18.34	18.33	-0.01

LW 3-15-06

03/14

!=warning +=high bias c=CCV m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA08 Run Name: 40 PPB IDF : 1.0
Seqnum : 476106989011 File : hcf11 Time : 15-MAR-2006 13:03
Cal : 476046588001 Caldate : 01-FEB-2006 Caltype : WATER
Standards: S2844 (12500X), S2783 (12500X), S2410 (25000X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.5796	0.5295	40.00	33.40	ug/L	-17	30	0.0500	
Chloromethane	0.9006	0.8828	40.00	39.21	ug/L	-2	30	0.1000	
Vinyl Chloride	0.6624	0.7477	40.00	45.15	ug/L	13	20	0.0500	
Bromomethane	0.2589	0.2902	40.00	37.96	ug/L	-5	30	0.0500	m
Chloroethane	0.3907	0.4323	40.00	44.26	ug/L	11	30	0.0500	
Trichlorofluoromethane	0.4825	0.6276	40.00	52.03	ug/L	**30**	30	0.0500	!c+
Acetone	0.3021	0.2719	40.00	36.00	ug/L	-10	40	0.0500	
Freon 113	0.3302	0.4205	40.00	38.60	ug/L	-3	30	0.0500	
1,1-Dichloroethene	0.3600	0.3569	40.00	39.65	ug/L	-1	20	0.0500	
Methylene Chloride	0.5823	0.4878	40.00	33.51	ug/L	-16	30	0.0500	
Carbon Disulfide	1.7971	1.7316	40.00	38.54	ug/L	-4	30	0.0500	
MTBE	1.4527	1.4754	40.00	40.62	ug/L	2	30	0.0500	
trans-1,2-Dichloroethene	0.4543	0.4264	40.00	37.54	ug/L	-6	30	0.0500	
Vinyl Acetate	1.6426	1.9313	40.00	47.03	ug/L	18	40	0.0500	
1,1-Dichloroethane	1.0006	0.9985	40.00	39.91	ug/L	0	30	0.1000	
2-Butanone	0.4575	0.4256	40.00	37.21	ug/L	-7	40	0.0500	
2,2-Dichloropropane	0.5854	0.6369	40.00	43.52	ug/L	9	30	0.0500	
cis-1,2-Dichloroethene	0.4992	0.4724	40.00	37.85	ug/L	-5	30	0.0500	
Chloroform	0.8302	0.8494	40.00	40.93	ug/L	2	20	0.0500	
Bromochloromethane	0.2270	0.2092	40.00	36.85	ug/L	-8	30	0.0500	
1,1,1-Trichloroethane	0.5226	0.5893	40.00	45.11	ug/L	13	30	0.0500	
1,1-Dichloropropene	0.2840	0.3067	40.00	39.11	ug/L	-2	30	0.0500	
Carbon Tetrachloride	0.1859	0.2107	40.00	39.36	ug/L	-2	30	0.0500	
1,2-Dichloroethane	0.3470	0.3416	40.00	39.37	ug/L	-2	30	0.0500	
Benzene	0.8363	0.8166	40.00	39.06	ug/L	-2	30	0.0500	
Trichloroethene	0.2025	0.1998	40.00	39.46	ug/L	-1	30	0.0500	
1,2-Dichloropropane	0.2865	0.2812	40.00	39.27	ug/L	-2	20	0.0500	
Bromodichloromethane	0.3039	0.2933	40.00	38.61	ug/L	-3	30	0.0500	
Dibromomethane	0.1588	0.1453	40.00	36.61	ug/L	-8	30	0.0500	
2-Chloroethylvinylether	0.0733	0.0686	40.00	31.42	ug/L	-21	40	0.0500	
4-Methyl-2-Pentanone	0.4139	0.3956	40.00	38.24	ug/L	-4	40	0.0500	
Tetramethyl THF	0.7071	0.7363	40.00	41.65	ug/L	4	30	0.0500	
cis-1,3-Dichloropropene	0.3937	0.3678	40.00	37.37	ug/L	-7	30	0.0500	
Toluene	0.4496	0.4411	40.00	39.25	ug/L	-2	20	0.0500	
trans-1,3-Dichloropropene	0.3620	0.3373	40.00	37.28	ug/L	-7	30	0.0500	
1,1,2-Trichloroethane	0.1200	0.1093	40.00	36.44	ug/L	-9	30	0.0500	
2-Hexanone	0.3361	0.3088	40.00	36.76	ug/L	-8	40	0.0500	
1,3-Dichloropropane	0.4573	0.4209	40.00	36.82	ug/L	-8	30	0.0500	
Tetrachloroethene	0.1551	0.1576	40.00	35.08	ug/L	-12	30	0.0500	
Dibromochloromethane	0.2193	0.2067	40.00	37.69	ug/L	-6	30	0.0500	
1,2-Dibromoethane	0.2117	0.1913	40.00	36.14	ug/L	-10	30	0.0500	
Chlorobenzene	0.5482	0.5141	40.00	37.51	ug/L	-6	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1843	0.1770	40.00	38.43	ug/L	-4	30	0.0500	
Ethylbenzene	0.9264	0.9477	40.00	40.92	ug/L	2	20	0.0500	
m,p-Xylenes	0.3213	0.3309	80.00	82.39	ug/L	3	30	0.0500	
o-Xylene	0.3218	0.3217	40.00	39.99	ug/L	0	30	0.0500	
Styrene	0.5822	0.5697	40.00	39.14	ug/L	-2	30	0.0500	
Bromoform	0.1450	0.1277	40.00	35.25	ug/L	-12	30	0.1000	
Isopropylbenzene	1.7784	1.9049	40.00	42.85	ug/L	7	30	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.8631	0.8075	40.00	37.42	ug/L	-6	30	0.3000	
1,2,3-Trichloropropane	0.1962	0.1925	40.00	39.24	ug/L	-2	30	0.0500	
Propylbenzene	2.3081	2.5696	40.00	44.53	ug/L	11	30	0.0500	
Bromobenzene	0.4470	0.4312	40.00	38.59	ug/L	-4	30	0.0500	
1,3,5-Trimethylbenzene	1.4355	1.5318	40.00	42.68	ug/L	7	30	0.0500	
2-Chlorotoluene	1.6443	1.6860	40.00	41.01	ug/L	3	30	0.0500	
4-Chlorotoluene	1.5655	1.5189	40.00	38.81	ug/L	-3	30	0.0500	
tert-Butylbenzene	1.1200	1.2166	40.00	38.09	ug/L	-5	30	0.0500	
1,2,4-Trimethylbenzene	1.4917	1.4934	40.00	40.05	ug/L	0	30	0.0500	
sec-Butylbenzene	1.8394	2.0434	40.00	38.17	ug/L	-5	30	0.0500	
para-Isopropyl Toluene	1.3712	1.4205	40.00	36.43	ug/L	-9	30	0.0500	
1,3-Dichlorobenzene	0.8196	0.7786	40.00	38.00	ug/L	-5	30	0.0500	
1,4-Dichlorobenzene	0.8520	0.8193	40.00	38.46	ug/L	-4	30	0.0500	
n-Butylbenzene	1.4409	1.4806	40.00	36.22	ug/L	-9	30	0.0500	
1,2-Dichlorobenzene	0.7873	0.7498	40.00	38.10	ug/L	-5	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1592	0.1393	40.00	34.99	ug/L	-13	30	0.0500	
1,2,4-Trichlorobenzene	0.3931	0.3408	40.00	34.68	ug/L	-13	30	0.0500	
Hexachlorobutadiene	0.1229	0.1249	40.00	33.24	ug/L	-17	30	0.0500	
Naphthalene	1.0879	1.0421	40.00	38.32	ug/L	-4	30	0.0500	
1,2,3-Trichlorobenzene	0.3826	0.3229	40.00	33.76	ug/L	-16	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0602	0.0557	400.0	369.8	ug/L	-8	30	0.0050	
Isopropyl Ether (DIPE)	2.5027	2.7512	40.00	43.97	ug/L	10	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.6278	1.7368	40.00	42.68	ug/L	7	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.7096	0.6699	40.00	37.76	ug/L	-6	30	0.0500	
Cyclohexanone	0.1257	0.0426	400.0	135.6	ug/L	-66	30	0.0050	c- ***
Ethanol	0.0105	0.0099	4000	3747	ug/L	-6	30	5.0E-4	
Isopropanol	0.0534	0.0497	400.0	372.0	ug/L	-7	30	0.0050	
Tetrahydrofuran	0.2425	0.2456	400.0	405.2	ug/L	1	30	0.0050	
Dibromofluoromethane	0.7768	0.8019	50.00	51.62	ug/L	3	30	0.0500	
1,2-Dichloroethane-d4	0.5078	0.5635	50.00	55.49	ug/L	11	30	0.0500	
Trifluorotoluene	0.1908	0.1955	40.00	35.07	ug/L	-12	30	0.0500	
Toluene-d8	1.1251	1.1575	50.00	51.44	ug/L	3	30	0.0500	
Bromofluorobenzene	1.3034	1.3039	50.00	50.02	ug/L	0	30	0.0500	

ISTD (ICAL hb115)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1400499	1033120	-26.23	10.48	10.48	0.00
1,4-Difluorobenzene	2944215	2254860	-23.41	11.61	11.61	0.00
Chlorobenzene-d5	2503542	1934519	-22.73	15.61	15.61	0.00
1,4-Dichlorobenzene-d4	1111278	839271	-24.48	18.34	18.34	0.00

LW 3-15-06

!=warning +=high bias -=low bias c=CCV m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA07 Run Name: 40 PPB IDF : 1.0
Seqnum : 466108440003 File : gcg03 Time : 16-MAR-2006 09:08
Cal : 466096970001 Caldate : 08-MAR-2006 Caltype : WATER
Standards: S2844 (12500X), S2783 (12500X), S2410 (25000X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.7271	0.7090	40.00	39.01	ug/L	-2	30	0.0500	
Chloromethane	1.0160	0.8931	40.00	42.59	ug/L	6	30	0.1000	
Vinyl Chloride	0.7952	0.7695	40.00	44.05	ug/L	10	20	0.0500	
Bromomethane	0.5326	0.4286	40.00	39.71	ug/L	-1	30	0.0500	
Chloroethane	0.5174	0.4566	40.00	35.30	ug/L	-12	30	0.0500	
Trichlorofluoromethane	0.8840	1.0176	40.00	46.04	ug/L	15	30	0.0500	
Acetone	0.2212	0.1926	40.00	34.83	ug/L	-13	40	0.0500	
Freon 113	0.4443	0.4581	40.00	41.24	ug/L	3	30	0.0500	
1,1-Dichloroethene	0.3736	0.3360	40.00	35.97	ug/L	-10	20	0.0500	
Methylene Chloride	0.5963	0.4734	40.00	31.75	ug/L	**-21**	30	0.0500	!c-
Carbon Disulfide	1.9040	1.4658	40.00	30.79	ug/L	**-23**	30	0.0500	!c-
MTBE	1.4828	1.5649	40.00	36.34	ug/L	-9	30	0.0500	
trans-1,2-Dichloroethene	0.5257	0.4467	40.00	33.99	ug/L	-15	30	0.0500	
Vinyl Acetate	1.2546	1.2530	40.00	34.27	ug/L	-14	40	0.0500	
1,1-Dichloroethane	1.1255	0.9623	40.00	34.20	ug/L	-14	30	0.1000	
2-Butanone	0.2826	0.2561	40.00	36.24	ug/L	-9	40	0.0500	
2,2-Dichloropropane	0.7127	0.7389	40.00	41.47	ug/L	4	30	0.0500	
cis-1,2-Dichloroethene	0.5402	0.4853	40.00	35.93	ug/L	-10	30	0.0500	
Chloroform	1.0480	0.9653	40.00	36.84	ug/L	-8	20	0.0500	
Bromochloromethane	0.2858	0.2465	40.00	34.49	ug/L	-14	30	0.0500	
1,1,1-Trichloroethane	0.8393	0.8492	40.00	40.47	ug/L	1	30	0.0500	
1,1-Dichloropropene	0.3732	0.4417	40.00	47.35	ug/L	18	30	0.0500	
Carbon Tetrachloride	0.3897	0.5027	40.00	51.61	ug/L	**29**	30	0.0500	!c+
1,2-Dichloroethane	0.5405	0.6004	40.00	44.44	ug/L	11	30	0.0500	
Benzene	1.4121	1.3360	40.00	37.85	ug/L	-5	30	0.0500	
Trichloroethene	0.2946	0.3090	40.00	41.95	ug/L	5	30	0.0500	
1,2-Dichloropropane	0.3446	0.3544	40.00	41.14	ug/L	3	20	0.0500	
Bromodichloromethane	0.4141	0.4642	40.00	44.84	ug/L	12	30	0.0500	
Dibromomethane	0.2031	0.2108	40.00	41.51	ug/L	4	30	0.0500	
2-Chloroethylvinylether	0.1412	0.1699	40.00	37.21	ug/L	-7	40	0.0500	
4-Methyl-2-Pentanone	0.3360	0.3580	40.00	37.86	ug/L	-5	40	0.0500	
Tetramethyl THF	0.5813	0.7413	40.00	40.23	ug/L	1	30	0.0500	
cis-1,3-Dichloropropene	0.4911	0.5899	40.00	40.82	ug/L	2	30	0.0500	
Toluene	0.8121	0.8474	40.00	41.74	ug/L	4	20	0.0500	
trans-1,3-Dichloropropene	0.4632	0.5428	40.00	46.87	ug/L	17	30	0.0500	
1,1,2-Trichloroethane	0.1675	0.1595	40.00	38.09	ug/L	-5	30	0.0500	
2-Hexanone	0.2238	0.2461	40.00	39.07	ug/L	-2	40	0.0500	
1,3-Dichloropropane	0.5822	0.6083	40.00	41.79	ug/L	4	30	0.0500	
Tetrachloroethene	0.2863	0.3397	40.00	47.45	ug/L	19	30	0.0500	
Dibromochloromethane	0.2922	0.3349	40.00	45.85	ug/L	15	30	0.0500	
1,2-Dibromoethane	0.2858	0.2900	40.00	40.59	ug/L	1	30	0.0500	
Chlorobenzene	1.0124	0.9767	40.00	38.59	ug/L	-4	30	0.3000	
1,1,1,2-Tetrachloroethane	0.3389	0.3748	40.00	44.25	ug/L	11	30	0.0500	
Ethylbenzene	1.5155	1.7553	40.00	46.33	ug/L	16	20	0.0500	
m,p-Xylenes	0.5688	0.6821	80.00	83.94	ug/L	5	30	0.0500	
o-Xylene	0.5099	0.6367	40.00	41.55	ug/L	4	30	0.0500	
Styrene	0.8523	1.0958	40.00	40.24	ug/L	1	30	0.0500	
Bromoform	0.2051	0.2472	40.00	48.21	ug/L	**21**	30	0.1000	!c+
Isopropylbenzene	1.9702	2.5695	40.00	43.08	ug/L	8	30	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.8243	0.7044	40.00	34.18	ug/L	-15	30	0.3000	
1,2,3-Trichloropropane	0.8330	0.7899	40.00	37.93	ug/L	-5	30	0.0500	
Propylbenzene	2.9623	3.4229	40.00	46.22	ug/L	16	30	0.0500	
Bromobenzene	0.6984	0.6946	40.00	39.78	ug/L	-1	30	0.0500	
1,3,5-Trimethylbenzene	2.0134	2.4659	40.00	42.66	ug/L	7	30	0.0500	
2-Chlorotoluene	2.1397	2.3479	40.00	43.89	ug/L	10	30	0.0500	
4-Chlorotoluene	1.9400	2.1573	40.00	44.48	ug/L	11	30	0.0500	
tert-Butylbenzene	1.5827	2.1006	40.00	45.09	ug/L	13	30	0.0500	
1,2,4-Trimethylbenzene	2.0305	2.5751	40.00	42.38	ug/L	6	30	0.0500	
sec-Butylbenzene	2.4182	3.1447	40.00	44.08	ug/L	10	30	0.0500	
para-Isopropyl Toluene	2.0237	2.7574	40.00	44.65	ug/L	12	30	0.0500	
1,3-Dichlorobenzene	1.3836	1.4045	40.00	40.60	ug/L	2	30	0.0500	
1,4-Dichlorobenzene	1.5594	1.4668	40.00	37.62	ug/L	-6	30	0.0500	
n-Butylbenzene	2.0647	2.5708	40.00	43.10	ug/L	8	30	0.0500	
1,2-Dichlorobenzene	1.3421	1.3608	40.00	40.56	ug/L	1	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1573	0.1688	40.00	40.48	ug/L	1	30	0.0500	
1,2,4-Trichlorobenzene	0.9365	1.1032	40.00	47.12	ug/L	18	30	0.0500	
Hexachlorobutadiene	0.3746	0.5338	40.00	57.01	ug/L	**43**	30	0.0500	c+ ***
Naphthalene	2.0582	2.5521	40.00	37.12	ug/L	7	30	0.0500	
1,2,3-Trichlorobenzene	0.9432	1.0844	40.00	45.99	ug/L	15	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0382	0.0459	400.0	481.3	ug/L	20	30	0.0050	
Isopropyl Ether (DIPE)	1.7865	1.7778	40.00	33.91	ug/L	-15	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.3859	1.4780	40.00	35.94	ug/L	-10	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.8460	0.9649	40.00	39.86	ug/L	0	30	0.0500	
Cyclohexanone	0.0674	0.0688	400.0	387.1	ug/L	-3	30	0.0050	
Ethanol	0.0071	0.0076	4000	4265	ug/L	7	30	5.0E-4	
Isopropanol	0.0284	0.0323	400.0	454.9	ug/L	14	30	0.0050	
Tetrahydrofuran	0.1870	0.1783	400.0	332.7	ug/L	-17	30	0.0050	
Dibromofluoromethane	0.5393	0.4834	50.00	44.81	ug/L	-10	30	0.0500	
1,2-Dichloroethane-d4	0.4518	0.5198	50.00	57.52	ug/L	15	30	0.0500	
Trifluorotoluene	0.4018	0.4962	40.00	49.40	ug/L	**23**	30	0.0500	!c+
Toluene-d8	1.1658	1.2018	50.00	51.54	ug/L	3	30	0.0500	
Bromofluorobenzene	0.9370	0.9390	50.00	50.11	ug/L	0	30	0.0500	

ISTD (ICAL gc814)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	542122	711188	31.19	10.13	10.13	0.00
1,4-Difluorobenzene	912316	1066150	16.86	11.28	11.28	0.00
Chlorobenzene-d5	888382	1035776	16.59	15.38	15.38	0.00
1,4-Dichlorobenzene-d4	555422	678025	22.07	18.10	18.10	0.00

a 03/17/06

LW 3-16-06

!=warning +=high bias -=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA08 Run Name: 30 PPB IDF : 1.0
Seqnum : 476108446003 File : hcg03 Time : 16-MAR-2006 08:25
Cal : 476046588001 Caldate : 01-FEB-2006 Caltype : WATER
Standards: S2844 (16670X), S2783 (16670X), S2410 (33330X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.5796	0.4760	30.00	22.47	ug/L	**-25**	30	0.0500	!c-
Chloromethane	0.9006	0.8135	30.00	27.10	ug/L	-10	30	0.1000	
Vinyl Chloride	0.6624	0.6841	30.00	30.98	ug/L	3	20	0.0500	m
Bromomethane	0.2589	0.2293	30.00	23.20	ug/L	**-23**	30	0.0500	!c- m
Chloroethane	0.3907	0.3892	30.00	29.88	ug/L	0	30	0.0500	
Trichlorofluoromethane	0.4825	0.5880	30.00	36.56	ug/L	**22**	30	0.0500	!c+
Acetone	0.3021	0.3201	30.00	31.78	ug/L	6	40	0.0500	
Freon 113	0.3302	0.4269	30.00	29.58	ug/L	-1	30	0.0500	
1,1-Dichloroethene	0.3600	0.3526	30.00	29.39	ug/L	-2	20	0.0500	
Methylene Chloride	0.5823	0.4981	30.00	25.66	ug/L	-14	30	0.0500	
Carbon Disulfide	1.7971	1.7100	30.00	28.55	ug/L	-5	30	0.0500	
MTBE	1.4527	1.5307	30.00	31.61	ug/L	5	30	0.0500	
trans-1,2-Dichloroethene	0.4543	0.4259	30.00	28.13	ug/L	-6	30	0.0500	
Vinyl Acetate	1.6426	1.9958	30.00	36.45	ug/L	22	40	0.0500	
1,1-Dichloroethane	1.0006	0.9976	30.00	29.91	ug/L	0	30	0.1000	
2-Butanone	0.4575	0.4524	30.00	29.66	ug/L	-1	40	0.0500	
2,2-Dichloropropane	0.5854	0.6659	30.00	34.12	ug/L	14	30	0.0500	
cis-1,2-Dichloroethene	0.4992	0.4727	30.00	28.40	ug/L	-5	30	0.0500	
Chloroform	0.8302	0.8450	30.00	30.53	ug/L	2	20	0.0500	
Bromochloromethane	0.2270	0.2114	30.00	27.93	ug/L	-7	30	0.0500	
1,1,1-Trichloroethane	0.5226	0.5828	30.00	33.46	ug/L	12	30	0.0500	
1,1-Dichloropropene	0.2840	0.3006	30.00	28.78	ug/L	-4	30	0.0500	
Carbon Tetrachloride	0.1859	0.2053	30.00	28.88	ug/L	-4	30	0.0500	
1,2-Dichloroethane	0.3470	0.3501	30.00	30.26	ug/L	1	30	0.0500	
Benzene	0.8363	0.8141	30.00	29.20	ug/L	-3	30	0.0500	
Trichloroethene	0.2025	0.1987	30.00	29.43	ug/L	-2	30	0.0500	
1,2-Dichloropropane	0.2865	0.2765	30.00	28.95	ug/L	-3	20	0.0500	
Bromodichloromethane	0.3039	0.2901	30.00	28.64	ug/L	-5	30	0.0500	
Dibromomethane	0.1588	0.1492	30.00	28.18	ug/L	-6	30	0.0500	
2-Chloroethylvinylether	0.0733	0.0565	30.00	20.29	ug/L	**-32**	40	0.0500	!c-
4-Methyl-2-Pentanone	0.4139	0.4025	30.00	29.17	ug/L	-3	40	0.0500	
Tetramethyl THF	0.7071	0.7583	30.00	32.17	ug/L	7	30	0.0500	
cis-1,3-Dichloropropene	0.3937	0.3779	30.00	28.80	ug/L	-4	30	0.0500	
Toluene	0.4496	0.4387	30.00	29.27	ug/L	-2	20	0.0500	
trans-1,3-Dichloropropene	0.3620	0.3435	30.00	28.47	ug/L	-5	30	0.0500	
1,1,2-Trichloroethane	0.1200	0.1110	30.00	27.77	ug/L	-7	30	0.0500	
2-Hexanone	0.3361	0.3294	30.00	29.40	ug/L	-2	40	0.0500	
1,3-Dichloropropane	0.4573	0.4334	30.00	28.44	ug/L	-5	30	0.0500	
Tetrachloroethene	0.1551	0.1586	30.00	26.57	ug/L	-11	30	0.0500	
Dibromochloromethane	0.2193	0.2027	30.00	27.72	ug/L	-8	30	0.0500	
1,2-Dibromoethane	0.2117	0.1949	30.00	27.61	ug/L	-8	30	0.0500	
Chlorobenzene	0.5482	0.5089	30.00	27.85	ug/L	-7	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1843	0.1738	30.00	28.29	ug/L	-6	30	0.0500	
Ethylbenzene	0.9264	0.9449	30.00	30.60	ug/L	2	20	0.0500	
m,p-Xylenes	0.3213	0.3323	60.00	62.07	ug/L	3	30	0.0500	
o-Xylene	0.3218	0.3200	30.00	29.83	ug/L	-1	30	0.0500	
Styrene	0.5822	0.5699	30.00	29.37	ug/L	-2	30	0.0500	
Bromoform	0.1450	0.1282	30.00	26.53	ug/L	-12	30	0.1000	
Isopropylbenzene	1.7784	1.8740	30.00	31.61	ug/L	5	30	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.8631	0.8182	30.00	28.44	ug/L	-5	30	0.3000	
1,2,3-Trichloropropane	0.1962	0.1929	30.00	29.48	ug/L	-2	30	0.0500	
Propylbenzene	2.3081	2.5995	30.00	33.79	ug/L	13	30	0.0500	
Bromobenzene	0.4470	0.4214	30.00	28.28	ug/L	-6	30	0.0500	
1,3,5-Trimethylbenzene	1.4355	1.5141	30.00	31.64	ug/L	5	30	0.0500	
2-Chlorotoluene	1.6443	1.6911	30.00	30.85	ug/L	3	30	0.0500	
4-Chlorotoluene	1.5655	1.5646	30.00	29.98	ug/L	0	30	0.0500	
tert-Butylbenzene	1.1200	1.2091	30.00	28.50	ug/L	-5	30	0.0500	
1,2,4-Trimethylbenzene	1.4917	1.4794	30.00	29.75	ug/L	-1	30	0.0500	
sec-Butylbenzene	1.8394	2.0579	30.00	28.91	ug/L	-4	30	0.0500	
para-Isopropyl Toluene	1.3712	1.4488	30.00	27.95	ug/L	-7	30	0.0500	
1,3-Dichlorobenzene	0.8196	0.7913	30.00	28.96	ug/L	-3	30	0.0500	
1,4-Dichlorobenzene	0.8520	0.8129	30.00	28.62	ug/L	-5	30	0.0500	
n-Butylbenzene	1.4409	1.5304	30.00	28.13	ug/L	-6	30	0.0500	
1,2-Dichlorobenzene	0.7873	0.7661	30.00	29.19	ug/L	-3	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1592	0.1429	30.00	26.93	ug/L	-10	30	0.0500	
1,2,4-Trichlorobenzene	0.3931	0.3395	30.00	25.91	ug/L	-14	30	0.0500	
Hexachlorobutadiene	0.1229	0.1299	30.00	25.98	ug/L	-13	30	0.0500	
Naphthalene	1.0879	1.0290	30.00	28.38	ug/L	-5	30	0.0500	
1,2,3-Trichlorobenzene	0.3826	0.3215	30.00	25.21	ug/L	-16	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0602	0.0592	300.0	294.8	ug/L	-2	30	0.0050	
Isopropyl Ether (DIPE)	2.5027	2.8091	30.00	33.67	ug/L	12	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.6278	1.7370	30.00	32.01	ug/L	7	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.7096	0.6814	30.00	28.81	ug/L	-4	30	0.0500	
Cyclohexanone	0.1257	0.1361	300.0	324.6	ug/L	8	30	0.0050	
Ethanol	0.0105	0.0105	3000	2979	ug/L	-1	30	5.0E-4	
Isopropanol	0.0534	0.0531	300.0	298.6	ug/L	0	30	0.0050	
Tetrahydrofuran	0.2425	0.2514	300.0	311.0	ug/L	4	30	0.0050	
Dibromofluoromethane	0.7768	0.8190	50.00	52.72	ug/L	5	30	0.0500	
1,2-Dichloroethane-d4	0.5078	0.5665	50.00	55.79	ug/L	12	30	0.0500	
Trifluorotoluene	0.1908	0.1981	30.00	26.69	ug/L	-11	30	0.0500	
Toluene-d8	1.1251	1.1694	50.00	51.97	ug/L	4	30	0.0500	
Bromofluorobenzene	1.3034	1.2905	50.00	49.51	ug/L	-1	30	0.0500	

ISTD (ICAL hb115)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1400499	953695	-31.90	10.48	10.48	0.00
1,4-Difluorobenzene	2944215	2098396	-28.73	11.61	11.61	0.00
Chlorobenzene-d5	2503542	1815714	-27.47	15.61	15.61	0.00
1,4-Dichlorobenzene-d4	1111278	791749	-28.75	18.34	18.34	0.00

Qa 03/17/06

LW 3-16-06

!=warning +=high bias -=low bias c=CCV m=manual integration

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 15-MAR-2006
Sequence: 466106983 (gcf)
Instrument ID: MSVOA07

ICAL Filename: gc814
Date Analyzed: 08-MAR-2006
Time Analyzed: 16:38

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	542122	10.13	912316	11.28	888382	15.38	555422	18.10
LOWER LIMIT	271061	9.63	456158	10.78	444191	14.88	277711	17.60
UPPER LIMIT	1084244	10.63	1824632	11.78	1776764	15.88	1110844	18.60

TYPE	SAMPLE	#								
CCV	40 PPB	003	461194	10.13	794216	11.28	751241	15.38	461995	18.10
CCV/BS	QC331551	005	493722	10.13	852620	11.28	795248	15.38	458822	18.10
BSD	QC331552	006	518285	10.13	883552	11.28	819240	15.38	474342	18.10
BLANK	QC331553	008	448431	10.13	815302	11.28	743073	15.38	407828	18.10
SAMPLE	185479-058	009	421705	10.13	772433	11.28	706238	15.38	402032	18.10
SAMPLE	185511-003	010	406326	10.13	746448	11.28	684749	15.38	392002	18.10
SAMPLE	185456-010	011	400989	10.13	736289	11.28	677123	15.38	386570	18.10
SAMPLE	185511-005	012	393077	10.13	714568	11.28	657693	15.38	382652	18.10
SAMPLE	185511-006	013	376456	10.13	703325	11.28	646193	15.38	368399	18.10
SAMPLE	185511-007	014	360549	10.13	684019	11.28	638855	15.38	387982	18.10
SAMPLE	185511-008	015	368451	10.13	697620	11.28	641123	15.38	368672	18.10
SAMPLE	185511-009	016	356520	10.13	682106	11.28	625317	15.38	366032	18.10
SAMPLE	185511-012	017	358729	10.13	675072	11.28	630095	15.38	363059	18.10
SAMPLE	185511-013	018	348678	10.13	668649	11.28	619643	15.38	356268	18.10
SAMPLE	185511-015	019	342983	10.13	657432	11.28	600937	15.38	348839	18.10
SAMPLE	185511-016	020	335124	10.13	641999	11.28	595516	15.38	346712	18.10
SAMPLE	185511-017	021	331456	10.13	639749	11.28	584963	15.38	346625	18.10
SAMPLE	185511-018	022	327645	10.13	632599	11.28	580620	15.38	342247	18.10
SAMPLE	185511-019	023	326863	10.13	631132	11.28	580911	15.38	336995	18.10
SAMPLE	185511-020	024	317931	10.13	616097	11.28	568106	15.38	339228	18.10
SAMPLE	185511-021	025	309863	10.13	606733	11.28	560500	15.38	337986	18.10
SAMPLE	185511-004	026	310484	10.13	604287	11.28	561673	15.38	335223	18.10

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 15-MAR-2006
Sequence: 476106989 (hcf)
Instrument ID: MSVOA08

ICAL Filename: hb115
Date Analyzed: 01-FEB-2006
Time Analyzed: 19:01

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	1400499	10.48	2944215	11.61	2503542	15.61	1111278	18.34
LOWER LIMIT	700250	9.98	1472108	11.11	1251771	15.11	555639	17.84
UPPER LIMIT	2800998	10.98	5888430	12.11	5007084	16.11	2222556	18.84

TYPE	SAMPLE	#								
CCV	40 PPB	003	996745	10.48	2186597	11.61	1853169	15.62	810678	18.33
LCS	QC331546	004	1120921	10.48	2410663	11.61	2015745	15.61	848750	18.33
BLANK	QC331547	006	1075189	10.48	2341419	11.61	1972780	15.61	781397	18.33
SAMPLE	185492-026	007	1019624	10.48	2221242	11.61	1871016	15.61	731284	18.34
SAMPLE	185492-027	008	1020072	10.48	2257399	11.61	1885940	15.61	738264	18.33
SAMPLE	185492-028	009	987978	10.48	2175252	11.61	1817489	15.61	706845	18.34
CCV	40 PPB	011	1033120	10.48	2254860	11.61	1934519	15.61	839271	18.34
BLANK	QC331548	013	1024386	10.48	2243354	11.61	1862042	15.62	743049	18.33
SAMPLE	185511-022	014	982876	10.48	2134332	11.62	1777041	15.61	696761	18.33
SAMPLE	185511-023	015	984029	10.48	2181189	11.61	1798353	15.61	703428	18.33
SAMPLE	185511-024	016	971700	10.47	2173514	11.60	1810646	15.61	706210	18.33
SAMPLE	185511-025	017	919714	10.48	2032922	11.61	1689307	15.61	664356	18.33
SAMPLE	185524-001	018	944359	10.48	2104048	11.61	1773964	15.62	692968	18.33
SAMPLE	185524-010	019	932465	10.48	2063179	11.61	1733261	15.62	682013	18.33
SAMPLE	185479-056	020	917636	10.48	2051440	11.61	1712684	15.61	660770	18.33
SAMPLE	185479-057	021	933768	10.48	2070009	11.61	1729446	15.61	684416	18.34
SAMPLE	185479-050	022	908216	10.48	2027950	11.61	1713485	15.61	672930	18.33
SAMPLE	185492-048	023	919348	10.48	2056045	11.61	1748813	15.62	685959	18.34
MSS	185524-005	024	908789	10.48	2006456	11.61	1697608	15.61	670035	18.33
SAMPLE	185524-008	025	904706	10.48	2029960	11.61	1706831	15.62	667899	18.33
SAMPLE	185524-009	026	898043	10.48	2025731	11.61	1736897	15.61	661632	18.33
SAMPLE	185524-002	027	902759	10.48	1994376	11.61	1710754	15.62	670951	18.33
MS	QC331549	028	866841	10.48	1946367	11.61	1686284	15.61	731929	18.34
MSD	QC331550	029	1003974	10.48	2174580	11.61	1846657	15.61	784974	18.34

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 16-MAR-2006
Sequence: 466108440 (gcg)
Instrument ID: MSVOA07

ICAL Filename: gc814
Date Analyzed: 08-MAR-2006
Time Analyzed: 16:38

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	542122	10.13	912316	11.28	888382	15.38	555422	18.10
LOWER LIMIT	271061	9.63	456158	10.78	444191	14.88	277711	17.60
UPPER LIMIT	1084244	10.63	1824632	11.78	1776764	15.88	1110844	18.60

TYPE	SAMPLE	#								
CCV	40 PPB	003	711188	10.13	1066150	11.28	1035776	15.38	678025	18.10
BS	QC331753	005	719998	10.13	1067882	11.28	1029473	15.38	672419	18.10
BSD	QC331754	006	744209	10.13	1100004	11.28	1049248	15.38	678881	18.10
BLANK	QC331755	008	637371	10.13	1004624	11.28	952697	15.38	581705	18.10
SAMPLE	185511-014	009	617425	10.13	989122	11.28	928866	15.38	566923	18.10
SAMPLE	185572-008	010	608674	10.13	968007	11.28	918948	15.38	564400	18.10
SAMPLE	185566-001	011	593235	10.13	952474	11.28	915135	15.38	569819	18.10
SAMPLE	185572-001	012	616404	10.13	954310	11.28	910676	15.38	568937	18.10
SAMPLE	185572-003	013	601405	10.13	938789	11.28	886667	15.38	558801	18.10
SAMPLE	185572-004	014	607928	10.13	930079	11.28	884770	15.38	560551	18.10
SAMPLE	185572-006	015	609397	10.13	930539	11.28	888250	15.38	556231	18.10
SAMPLE	185544-004	016	555357	10.13	915334	11.28	869755	15.38	552196	18.10
SAMPLE	185548-001	017	577519	10.13	904793	11.28	864602	15.38	547664	18.10
SAMPLE	185569-001	018	576284	10.13	904528	11.28	877080	15.38	552657	18.10
SAMPLE	185572-002	019	585811	10.13	905409	11.28	867556	15.38	547796	18.10
SAMPLE	185572-005	020	576996	10.13	898234	11.28	862232	15.38	537481	18.10
SAMPLE	185572-007	021	573094	10.13	901975	11.28	871275	15.38	540660	18.10

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 16-MAR-2006
Sequence: 476108446 (hcg)
Instrument ID: MSVOA08

ICAL Filename: hb115
Date Analyzed: 01-FEB-2006
Time Analyzed: 19:01

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	1400499	10.48	2944215	11.61	2503542	15.61	1111278	18.34
LOWER LIMIT	700250	9.98	1472108	11.11	1251771	15.11	555639	17.84
UPPER LIMIT	2800998	10.98	5888430	12.11	5007084	16.11	2222556	18.84

TYPE	SAMPLE	#								
CCV	30 PPB	003	953695	10.48	2098396	11.61	1815714	15.61	791749	18.34
BS	QC331739	004	1056426	10.48	2284714	11.61	1930055	15.61	811751	18.34
BSD	QC331740	005	1077795	10.48	2302267	11.61	1917121	15.61	807271	18.34
BLANK	QC331741	007	1026059	10.48	2206010	11.61	1849032	15.62	738289	18.33
SAMPLE	185511-017	008	978351	10.48	2178592	11.62	1815945	15.61	704671	18.33
SAMPLE	185511-020	009	973315	10.48	2131517	11.61	1782267	15.61	699952	18.33
SAMPLE	185511-004	010	911884	10.48	2040102	11.61	1703265	15.62	669593	18.33
SAMPLE	185546-022	011	935583	10.48	2050118	11.61	1725453	15.61	682975	18.33
SAMPLE	185546-012	012	916606	10.48	2027750	11.61	1726163	15.61	721887	18.34
SAMPLE	185546-013	013	1034750	10.48	2214695	11.61	1875897	15.61	800609	18.34
SAMPLE	185546-014	014	1124197	10.48	2364245	11.61	1983499	15.61	830921	18.34
SAMPLE	185546-015	015	1149350	10.47	2383853	11.61	1989912	15.62	827424	18.33
SAMPLE	185546-016	016	1142897	10.47	2388224	11.61	2014209	15.61	841412	18.33
SAMPLE	185546-017	017	1136764	10.48	2366988	11.61	1991226	15.61	807135	18.33
SAMPLE	185546-018	018	1097094	10.48	2297057	11.61	1970143	15.61	799366	18.33
SAMPLE	185546-019	019	1091749	10.47	2351127	11.61	1934385	15.61	782614	18.33
SAMPLE	185546-020	020	1002521	10.48	2159376	11.61	1817238	15.62	729449	18.33
SAMPLE	185546-021	021	1031170	10.48	2210911	11.61	1867629	15.61	750245	18.34
SAMPLE	185488-001	025	937388	10.48	2097617	11.61	1758260	15.62	692388	18.33
SAMPLE	185488-002	026	927572	10.48	2062543	11.61	1735358	15.61	676048	18.33

ICAL

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 476046588 Instrument: MSVOA08 HP GCMS VOA 08 Begun: 01-FEB-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	hb101	X	IB			01-FEB-2006 08:28	1.0					1	
002	hb102	X	LOW			01-FEB-2006 09:10	1.0					1	
003	hb103	X	LOW			01-FEB-2006 09:47	1.0					1	
004	hb104	TUN	BFB			01-FEB-2006 10:30	1.0					2	
005	hb105	TUN	BFB			01-FEB-2006 11:01	1.0					2	
006	hb106	TUN	BFB			01-FEB-2006 11:21	1.0					2	
007	hb107	TUN	BFB			01-FEB-2006 14:11	1.0					2	
008	hb108	X	IB			01-FEB-2006 14:43	1.0					1	
009	hb109	X	CALIB IB			01-FEB-2006 15:20	1.0					1	
010	hb110	ICAL	1.0/0.5 PPB			01-FEB-2006 15:57	1.0					3 4 5 1	
011	hb111	ICAL	2 PPB			01-FEB-2006 16:34	1.0					3 4 5 1	
012	hb112	ICAL	5 PPB			01-FEB-2006 17:10	1.0					3 4 5 1	
013	hb113	ICAL	10 PPB			01-FEB-2006 17:47	1.0					3 4 5 1	
014	hb114	ICAL	20 PPB			01-FEB-2006 18:24	1.0					3 4 5 1	
015	hb115	ICAL	50 PPB			01-FEB-2006 19:01	1.0					3 4 5 1	271
016	hb116	ICAL	75 PPB			01-FEB-2006 19:39	1.0					3 4 5 1	
017	hb117	ICAL	100 PPB			01-FEB-2006 20:16	1.0					3 4 5 1	
018	hb118	ICV				01-FEB-2006 20:53	1.0	1	5000			6 1	
019	hb119	ICV				01-FEB-2006 21:30	1.0	1	5000			7 8 1	
020	hb120	X	IB			01-FEB-2006 22:07	1.0					1	
021	hb121	X	IB			01-FEB-2006 22:44	1.0					1	

tuning mass spec

ICAL-OK

ICV-Freon 12 ↓, Cyclohexanone ↓ (use Chloromethane ↓)

Stds used: 1=S2284 2=S2327 3=S2349 4=S2552 5=S2028 6=S2606 7=S2436 8=S2616

Analyst: LW Date: 2-2-06

02/07/06

ICAL

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 466096970 Instrument: MSVOA07 HP GCMS VOA 07 Begun: 08-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	gc801	X	IB			08-MAR-2006 08:10	1.0					1	
002	gc802	X	IB			08-MAR-2006 10:30	1.0					1	
003	gc803	X	LOW			08-MAR-2006 11:01	1.0					1	
004	gc804	X	LOW			08-MAR-2006 11:32	1.0					1	
005	gc805	TUN	BFB			08-MAR-2006 12:01	1.0					2	
006	gc806	X	IB			08-MAR-2006 12:30	1.0					1	
007	gc807	X	CALIB IB			08-MAR-2006 13:01	1.0					1	
008	gc808	ICAL	0.5/0.25 PPB			08-MAR-2006 13:32	1.0					3 4 5 1	
009	gc809	ICAL	1.0/0.5 PPB			08-MAR-2006 14:03	1.0					3 4 5 1	
010	gc810	ICAL	2 PPB			08-MAR-2006 14:34	1.0					3 4 5 1	
011	gc811	ICAL	5 PPB			08-MAR-2006 15:05	1.0					3 4 5 1	
012	gc812	ICAL	10 PPB			08-MAR-2006 15:36	1.0					3 4 5 1	
013	gc813	ICAL	20 PPB			08-MAR-2006 16:07	1.0					3 4 5 1	
014	gc814	ICAL	50 PPB			08-MAR-2006 16:38	1.0					3 4 5 1	
015	gc815	ICAL	75 PPB			08-MAR-2006 17:09	1.0					3 4 5 1	272
016	gc816	ICAL	100 PPB			08-MAR-2006 17:40	1.0					3 4 5 1	272
017	gc817	ICV				08-MAR-2006 18:11	1.0		5000			6 1	
018	gc818	ICV				08-MAR-2006 18:42	1.0	1	5000			7 8 1	
019	gc819	X	IB			08-MAR-2006 19:13	1.0					1	
020	gc820	X	IB			08-MAR-2006 19:44	1.0					1	

ICAL-OK ICV - Cyclohexanone ↓ (USACE Freon 12 ↓, TCFM ↓, CDS ↓)

Stds used: 1=S2707 2=S2327 3=S2844 4=S2783 5=S2410 6=S2807 7=S2829 8=S2616

Analyst: LW Date: 3-9-06

03/09/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

3, 5-9, 12, 13, 15, 16, 18, 19, 21

Sequence: 466106983 Instrument: MSVOA07 HP GCMS VOA 07 Begun: 15-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	gcf01	X	IB			15-MAR-2006 07:03	1.0						1	
002	gcf02	TUN	BFB			15-MAR-2006 07:32	1.0						2	
003	gcf03	CCV	40 PPB → Adj. tune			15-MAR-2006 08:00	1.0	2		5000			3 4 5 1 cc+ Not Used	
004	gcf04	TUN	BFB			15-MAR-2006 08:43	1.0						2	
005	gcf05	CCV/BS	QC331551	111322	Water	15-MAR-2006 09:05	1.0	1		5000			6 7 8 1	
006	gcf06	BSD	QC331552	111322	Water	15-MAR-2006 09:48	1.0	1	2	5000			6 7 8 1	
007	gcf07	X	IB			15-MAR-2006 10:31	1.0						1	
008	gcf08	BLANK	QC331553	111322	Water	15-MAR-2006 11:03	1.0		1	5000			1	
009	gcf09	SAMPLE	185479-058	111322	Water	15-MAR-2006 11:34	1.0			5000	C	<2	1	
010	gcf10	SAMPLE	185511-003	111322	Water	15-MAR-2006 12:05	1.0			5000	C		1	
011	gcf11	SAMPLE	185456-010	111322	Water	15-MAR-2006 12:36	1.0			5000	C		1 ~smel HS	
012	gcf12	SAMPLE	185511-005	111322	Water	15-MAR-2006 13:07	1.0			5000			1	
013	gcf13	SAMPLE	185511-006	111322	Water	15-MAR-2006 13:38	1.0			5000			1	
014	gcf14	SAMPLE	185511-007	111322	Water	15-MAR-2006 14:09	1.0			5000			1	
015	gcf15	SAMPLE	185511-008	111322	Water	15-MAR-2006 14:40	1.0			5000			1	273
016	gcf16	SAMPLE	185511-009	111322	Water	15-MAR-2006 15:12	1.0			5000			1	
017	gcf17	SAMPLE	185511-012	111322	Water	15-MAR-2006 15:43	1.0			5000			1	
018	gcf18	SAMPLE	185511-013	111322	Water	15-MAR-2006 16:14	1.0			5000			1	
019	gcf19	SAMPLE	185511-015	111322	Water	15-MAR-2006 16:45	1.0			5000			1	
020	gcf20	SAMPLE	185511-016	111322	Water	15-MAR-2006 17:16	1.0		1	5000			1 surr↑-ND	
021	gcf21	SAMPLE	185511-017	111322	Water	15-MAR-2006 17:47	1.0		1	5000			1 surr↑-RRe/X	
022	gcf22	SAMPLE	185511-018	111322	Water	15-MAR-2006 18:18	1.0		1	5000			1 surr↑-ND	
023	gcf23	SAMPLE	185511-019	111322	Water	15-MAR-2006 18:49	1.0		1	5000			1 surr↑-ND	
024	gcf24	SAMPLE	185511-020	111322	Water	15-MAR-2006 19:20	1.0		1	5000			1 surr↑-RRe/X	
025	gcf25	SAMPLE	185511-021	111322	Water	15-MAR-2006 19:51	1.0		2	5000			1 surr↑-ND	
026	gcf26	SAMPLE	185511-004	111322	Water	15-MAR-2006 20:22	1.0		1	5000			1 surr↑-RRe/X	
027	gcf27	X	IB			15-MAR-2006 20:54	1.0						1	
028	gcf28	X	IB			15-MAR-2006 21:25	1.0						1	
029	gcf29	X	IB			15-MAR-2006 21:56	1.0						1	

Stds used: 1=S2707 2=S2327 3=S2844 4=S2783 5=S2410 6=S2616 7=S2807 8=S2902
Flags used: +=high bias cc=CCV CCC failure

Analyst: LW Date: 3-16-06

03/16/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

22-25

Sequence: 476106989 Instrument: MSVOA08 HP GCMS VOA 08 Begun: 15-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	hcf01	X	IB			15-MAR-2006 07:09	1.0						1	
002	hcf02	TUN	BFB			15-MAR-2006 07:37	1.0						2	
003	hcf03	CCV	40 PPB			15-MAR-2006 08:07	1.0	1		5000			3 4 5 1	
004	hcf04	LCS	QC331546	111321	Water	15-MAR-2006 08:52	1.0	3		5000			6 7 8 1	
005	hcf05	X	IB			15-MAR-2006 09:36	1.0						1	
006	hcf06	BLANK	QC331547	111321	Water	15-MAR-2006 10:13	1.0		1	5000			1	
007	hcf07	SAMPLE	185492-026	111321	Water	15-MAR-2006 10:50	1.0			5000	C	12	1	
008	hcf08	SAMPLE	185492-027	111321	Water	15-MAR-2006 11:28	1.0			5000			1	
009	hcf09	SAMPLE	185492-028	111321	Water	15-MAR-2006 12:05	1.0			5000			1	
010	hcf10	TUN	BFB			15-MAR-2006 12:35	1.0						2	
011	hcf11	CCV	40 PPB			15-MAR-2006 13:03	1.0	1		5000			3 4 5 1	
012	hcf12	X	IB			15-MAR-2006 13:49	1.0						1	
013	hcf13	BLANK	QC331548	111321	Water	15-MAR-2006 14:26	1.0	1	1	5000			1	
014	hcf14	SAMPLE	185511-022	111321	Water	15-MAR-2006 15:03	1.0			5000	C	12	1	
015	hcf15	SAMPLE	185511-023	111321	Water	15-MAR-2006 15:40	1.0			5000			1	274
016	hcf16	SAMPLE	185511-024	111321	Water	15-MAR-2006 16:17	1.0			5000			1	
017	hcf17	SAMPLE	185511-025	111321	Water	15-MAR-2006 16:54	1.0			5000			1	
018	hcf18	SAMPLE	185524-001	111321	Water	15-MAR-2006 17:31	1.0			5000	A		1	
019	hcf19	SAMPLE	185524-010	111321	Water	15-MAR-2006 18:08	1.0			5000	A		1	
020	hcf20	SAMPLE	185479-056	111321	Water	15-MAR-2006 18:45	1.0			5000	B		1	
021	hcf21	SAMPLE	185479-057	111321	Water	15-MAR-2006 19:22	1.0			5000	A		1~1ml HS	
022	hcf22	SAMPLE	185479-050	111321	Water	15-MAR-2006 19:59	166.7			5000	B		1	
023	hcf23	SAMPLE	185492-048	111321	Water	15-MAR-2006 20:36	1.0			5000	C		1	
024	hcf24	MSS	185524-005	111321	Water	15-MAR-2006 21:14	1.0		1	5000	A		1	
025	hcf25	SAMPLE	185524-008	111321	Water	15-MAR-2006 21:51	1.0			5000	A		1	
026	hcf26	SAMPLE	185524-009	111321	Water	15-MAR-2006 22:28	1.0			5000	AB		1	
027	hcf27	SAMPLE	185524-002	111321	Water	15-MAR-2006 23:05	10.0			5000	A		1	
028	hcf28	MS	QC331549	111321	Water	15-MAR-2006 23:42	1.0	2	2	5000	BCD		1 6 7 8	
029	hcf29	MSD	QC331550	111321	Water	16-MAR-2006 00:19	1.0	2		5000	BCD		1 6 7 8	
030	hcf30	X	IB			16-MAR-2006 00:57	1.0						1	
031	hcf31-32	X	IB			16-MAR-2006 01:34	1.0						1	

Stds used: 1=S2707 2=S2327 3=S2844 4=S2783 5=S2410 6=S2616 7=S2807 8=S2902

Analyst: LW Date: 3-16-06

03/16/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 466108440 Instrument: MSVOA07 HP GCMS VOA 07 14 Begun: 16-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used		>LR
001	gcg01	X	IB			16-MAR-2006 07:20	1.0						1		
002	gcg02	TUN	BFB			16-MAR-2006 08:42	1.0						2		
003	gcg03	CCV	40 PPB			16-MAR-2006 09:08	1.0	1		5000			3 4 5 1		
004	gcg04	X	QC331753	111368	Water	16-MAR-2006 09:55	1.0	2	7	5000			6 7 8 1	spk Not Used	
005	gcg05	BS	QC331753	111368	Water	16-MAR-2006 10:26	1.0	2	2	5000			6 7 8 1		
006	gcg06	BSD	QC331754	111368	Water	16-MAR-2006 11:09	1.0	2	2	5000			6 7 8 1		
007	gcg07	X	IB			16-MAR-2006 11:52	1.0						1		
008	gcg08	BLANK	QC331755	111368	Water	16-MAR-2006 12:24	1.0		1	5000			1 s-Butyl@0.77 n-Butyl@0.85 Naph@0.88		
009	gcg09	SAMPLE	185511-014	111368	Water	16-MAR-2006 12:55	1.0		1	5000	A	12	1		
010	gcg10	SAMPLE	185572-008	111368	Water	16-MAR-2006 13:26	1.0			5000	B		1		
011	gcg11	SAMPLE	185566-001	111368	Water	16-MAR-2006 13:57	1.0			5000			1		
012	gcg12	SAMPLE	185572-001	111368	Water	16-MAR-2006 14:28	1.0			5000			1		
013	gcg13	SAMPLE	185572-003	111368	Water	16-MAR-2006 14:59	1.0	1		5000			1 RRC 2x	1:TCE=145.263	
014	gcg14	SAMPLE	185572-004	111368	Water	16-MAR-2006 15:31	1.0			5000			1		
015	gcg15	SAMPLE	185572-006	111368	Water	16-MAR-2006 16:02	1.0	2		5000			1 RRC 3.3x	2:TCE=196.412	275
016	gcg16	SAMPLE	185544-004	111368	Water	16-MAR-2006 16:33	1.0			5000			1		
017	gcg17	SAMPLE	185548-001	111368	Water	16-MAR-2006 17:04	1.0			5000	C		1		
018	gcg18	?SAMPLE	185569-001	111368	Water	16-MAR-2006 17:35	4.0			5000	B		1 RRC 6.25x	1:TCE=18.543	
019	gcg19	SAMPLE	185572-002	111368	Water	16-MAR-2006 18:06	4.0			5000			1		
020	gcg20	SAMPLE	185572-005	111368	Water	16-MAR-2006 18:38	4.0			5000			1		
021	gcg21	SAMPLE	185572-007	111368	Water	16-MAR-2006 19:09	2.500	1		5000			1 RRC 10x	1:TCE=304.075	
022	gcg22	X	IB			16-MAR-2006 19:40	1.0						1		
023	gcg23	X	IB			16-MAR-2006 20:11	1.0						1		
024	gcg24	X	IB			16-MAR-2006 20:42	1.0						1		

Stds used: 1=S2707 2=S2327 3=S2844 4=S2783 5=S2410 6=S2616 7=S2807 8=S2902
Flags used: spk=5% spike rule

Analyst: LW Date: 3-17-06

Q 3/17/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

4,17,20

Sequence: 476108446 Instrument: MSVOA08 HP GCMS VOA 08 Begun: 16-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	hcg01	X	IB			16-MAR-2006 07:26	1.0						1	
002	hcg02	TUN	BFB			16-MAR-2006 07:55	1.0						2	
003	hcg03	CCV	30 PPB			16-MAR-2006 08:25	1.0			5000			3 4 5 1	
004	hcg04	BS	QC331739	111364	Water	16-MAR-2006 09:11	1.0	2		5000			6 7 8 1	
005	hcg05	BSD	QC331740	111364	Water	16-MAR-2006 09:48	1.0	2		5000			6 7 8 1	
006	hcg06	X	IB			16-MAR-2006 10:37	1.0						1	
007	hcg07	BLANK	QC331741	111364	Water	16-MAR-2006 11:14	1.0		1	5000			1	
008	hcg08	SAMPLE	185511-017	111364	Water	16-MAR-2006 11:51	1.0			5000	D	L2	1	
009	hcg09	SAMPLE	185511-020	111364	Water	16-MAR-2006 12:29	1.0			5000			1	
010	hcg10	SAMPLE	185511-004	111364	Water	16-MAR-2006 13:05	1.0			5000			1	
011	hcg11	SAMPLE	185546-022	111364	Water	16-MAR-2006 13:43	1.0			5000	A		1	
012	hcg12	SAMPLE	185546-012	111364	Water	16-MAR-2006 14:20	1.0			5000	B		1	
013	hcg13	SAMPLE	185546-013	111364	Water	16-MAR-2006 14:57	1.429			5000	B		1	1:IPBZ=122.358 NT
014	hcg14	SAMPLE	185546-014	111364	Water	16-MAR-2006 15:34	2.0			5000	B		1	
015	hcg15	SAMPLE	185546-015	111364	Water	16-MAR-2006 16:11	500.0			5000	A		1	276
016	hcg16	SAMPLE	185546-016	111364	Water	16-MAR-2006 16:48	200.0	1		5000	B		1 Pre 1000x	1:BZ=348.823
017	hcg17	SAMPLE	185546-017	111364	Water	16-MAR-2006 17:25	2500			5000			1	
018	hcg18	SAMPLE	185546-018	111364	Water	16-MAR-2006 18:02	1000			5000			1	
019	hcg19	SAMPLE	185546-019	111364	Water	16-MAR-2006 18:39	625.0			5000			1	
020	hcg20	SAMPLE	185546-020	111364	Water	16-MAR-2006 19:16	625.0			5000			1	
021	hcg21	SAMPLE	185546-021	111364	Water	16-MAR-2006 19:53	333.3			5000			1	
022	hcg22	X	IB			16-MAR-2006 20:30	1.0						1	
023	hcg23	X	IB			16-MAR-2006 21:08	1.0						1	
024	hcg24	X	IB			16-MAR-2006 21:45	1.0						1	
025	hcg25	SAMPLE	185488-001	111364	Water	16-MAR-2006 22:22	1.0	71		5000	A		1 <<t	storage blanks
026	hcg26	SAMPLE	185488-002	111364	Water	16-MAR-2006 22:59	1.0	71		5000	A		1 <<t	

Stds used: 1=S2707 2=S2327 3=S2844 4=S2783 5=S2410 6=S2616 7=S2807 8=S2902
Flags used: <<t=out of clock

Analyst: LW Date: 3-17-06

03/17/06

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185511 8260 Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CVBCADMCMDVDMDTTCDBTDBMDBDTHPDCEXXTSTPDDBB	LCRLCCTDTCACECCCTCZCCDICZCCXCBLBYYOTBCBCZR	M MEEELSBE AKELACA EPCBPMPAOECBZLLTYMAFAM4	E EA 1N E1 1 1M1L1 A MKE1E11 2 MZ MOX E M1EF	2 3 2 2 2 3 2
185511-003	MSVOA07	03/15/06 12:05	1.0	|+|+|+\

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185511 8260 Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CVBCADMCMDVDMDTTCDBTDBMDBDTHPDCEXXTSTPDDBB	LCRLCCTDTCACEKCCCTCZCCDICZCCXCBLBYYOTBCBCZR	M MEEELSBE AEL ACA EPCBPMPAOECBZLLTYMAFAM4	E EA 1N E1 1 1MLL1 AMK1E11 2 MZ MOX E M1EF	2 3 2 2 2 3 2
QC331546	MSVOA08	03/15/06 08:52	1.0	+++++++

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 3-15

PREPPED BY.

111322

111321

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
	185479-58		C	<2			7	1x ✓Freon 12	
	185511-3							1x	
	-4								
	-5								
	-6								
	-7								
	-8								
	-9								
	-12								
	-13								
	-15								
	-16								
	-17								
	-18								
	-19								
	-20								
	-21								
	185456-10		C		~~1mL~~ 5mL ~~w/ STSD~~			1x ✓ 4-chlorotolvene	
0									
1	185479-50		B	<2			8	167x	
2	-56							1x	
3	-57		A		1mL			1x ~~✓MTBE~~	
4	185492-26		C					1x ✓MTBE	
5	-27								
6	-28							✓curves	
7	-29							✓styrene	
8	-48		C	<2				EB	
9	185524-1		A					silty 10x	
30	-2			<2				MS/MSD 1x	
31	-5		ABCD					1x	
32	-8		A	<2				silty 1x	
33	-9		B					TB	
34	-10				LV			1x	
35	185511-22		C						
36	-23								
37	-24								
38	-25								
39									
40									
41									
42									

PREPFORM.XLS

7/21/98

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 3-16
PREPPED BY.

111364
111368

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	185511-17		D	<2			8	1X	
2	-20		↓	↓				1X	
3	-4		↓	↓				1X	
4	-14		A	<2			~~8~~ 7	TB	
5	185546-12		B	↓				1X	
6	-13		↓	<2				142X	
7	-14		B					2X	
8	-15		A					500X	
9	-16		B					200X	
10	-17							2500X	
11	-18							1000X	
12	-19							625X	
13	-20							625X	
14	-21		↓	↓				333X	
15	-22		A	↓				FB	
16	185548-1		C	<2			7	1X	
17	185566-1		B	↓			7	1X	
18	185544-4		↓	↓			7	1X	
19									
20									
21	185488-1		A	<2			8	storage Blanks	
22	-2		↓	↓			8		
23									
24									
25									
26	185569-1		B	<2			7	4X	
27	185572-1			↓				1X	
28	-2			<2				4X	
29	-3			↓				1X	
30	-4			<2				1X	
31	-5			↓				4X	
32	-6			<2				1X	
33	-7			↓				2.5X	
34	-8		↓	↓				TB	
35									
36									
37									
38									
39									
40									
41									
42									

PREPFORM.XLS

7/21/98

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water
As of 04/29/06

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
1,1-Dichloroethene	ug/L	0.27	0.22	0.062	0.17	0.10	0.085	0.089
Benzene	ug/L	0.11	0.041	0.060	0.061	0.12	0.044	0.027
Trichloroethene	ug/L	0.21	0.076	0.18	0.17	0.11	0.072	0.087
Toluene	ug/L	0.083	0.083	0.12	0.092	0.062	0.063	0.053
Chlorobenzene	ug/L	0.10	0.090	0.11	0.16	0.16	0.079	0.050
Freon 12	ug/L	0.18	0.099	0.22	0.062	0.15	0.24	0.18
Chloromethane	ug/L	0.12	0.16	0.12	0.18	0.13	0.16	0.089
Vinyl Chloride	ug/L	0.19	0.23	0.10	0.066	0.10	0.17	0.16
Bromomethane	ug/L	0.29	0.30	0.31	0.13	0.31	0.23	0.20
Chloroethane	ug/L	0.33	0.33	0.15	0.16	0.13	0.16	0.12
Trichlorofluoromethane	ug/L	0.16	0.057	0.17	0.10	0.080	0.089	0.10
Acetone	ug/L	0.39	0.87	0.21	0.85	0.16	0.26	0.49
Freon 113	ug/L	0.062	0.12	0.13	0.25	0.071	0.20	0.091
Methylene Chloride	ug/L	0.15	0.21	0.11	0.12	0.16	0.099	0.22
MTBE	ug/L	0.069	0.074	0.065	0.045	0.040	0.051	0.052
Carbon Disulfide	ug/L	0.039	0.031	0.086	0.076	0.11	0.058	0.037
trans-1,2-Dichloroethene	ug/L	0.37	0.13	0.18	0.051	0.064	0.11	0.093
Vinyl Acetate	ug/L	0.076	0.36	0.084	0.99	0.40	0.080	0.10
1,1-Dichloroethane	ug/L	0.088	0.061	0.048	0.090	0.11	0.063	0.063
2-Butanone	ug/L	0.16	0.17	0.20	0.50	0.099	0.17	0.26
cis-1,2-Dichloroethene	ug/L	0.26	0.18	0.083	0.12	0.042	0.096	0.11
2,2-Dichloropropane	ug/L	0.093	0.17	0.077	0.12	0.066	0.084	0.083
Chloroform	ug/L	0.082	0.055	0.086	0.060	0.11	0.030	0.044
Bromochloromethane	ug/L	0.091	0.090	0.10	0.18	0.11	0.20	0.15
1,1,1-Trichloroethane	ug/L	0.084	0.066	0.14	0.11	0.061	0.045	0.041
1,1-Dichloropropene	ug/L	0.12	0.11	0.081	0.16	0.16	0.052	0.055
Carbon Tetrachloride	ug/L	0.089	0.11	0.098	0.17	0.15	0.095	0.056
1,2-Dichloroethane	ug/L	0.090	0.088	0.099	0.096	0.12	0.058	0.056
1,2-Dichloropropane	ug/L	0.093	0.060	0.079	0.071	0.14	0.072	0.12
Bromodichloromethane	ug/L	0.086	0.039	0.067	0.074	0.10	0.081	0.069
Dibromomethane	ug/L	0.16	0.061	0.092	0.16	0.11	0.065	0.13
4-Methyl-2-Pentanone	ug/L	0.044	0.076	0.057	0.20	0.13	0.092	0.25
cis-1,3-Dichloropropene	ug/L	0.068	0.065	0.056	0.20	0.16	0.042	0.044
trans-1,3-Dichloropropene	ug/L	0.074	0.074	0.044	0.073	0.14	0.071	0.060
1,1,2-Trichloroethane	ug/L	0.12	0.12	0.14	0.19	0.15	0.094	0.058
2-Hexanone	ug/L	0.043	0.31	0.047	0.34	0.11	0.13	0.14
1,3-Dichloropropane	ug/L	0.064	0.067	0.061	0.063	0.10	0.045	0.068
Tetrachloroethene	ug/L	0.13	0.14	0.12	0.22	0.14	0.090	0.093
Dibromochloromethane	ug/L	0.099	0.054	0.10	0.085	0.056	0.077	0.063
1,2-Dibromoethane	ug/L	0.16	0.061	0.10	0.073	0.11	0.053	0.070
2-Chloroethylvinylether	ug/L	0.093	0.18	0.24	0.17	0.14	0.20	0.23
1,1,1,2-Tetrachloroethane	ug/L	0.11	0.087	0.10	0.11	0.14	0.046	0.088
Ethylbenzene	ug/L	0.059	0.076	0.075	0.17	0.041	0.060	0.11
m,p-Xylenes	ug/L	0.24	0.22	0.14	0.27	0.17	0.13	0.20
o-Xylene	ug/L	0.10	0.058	0.092	0.11	0.16	0.11	0.13

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water
As of 04/29/06

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
Styrene	ug/L	0.12	0.092	0.098	0.085	0.16	0.075	0.061
Bromoform	ug/L	0.12	0.088	0.11	0.18	0.094	0.079	0.15
Isopropylbenzene	ug/L	0.12	0.059	0.090	0.18	0.059	0.053	0.10
1,1,2,2-Tetrachloroethane	ug/L	0.13	0.096	0.086	0.047	0.13	0.070	0.055
1,2,3-Trichloropropane	ug/L	0.31	0.28	0.074	0.11	0.17	0.20	0.16
Propylbenzene	ug/L	0.075	0.10	0.063	0.21	0.023	0.055	0.11
Bromobenzene	ug/L	0.12	0.12	0.10	0.19	0.12	0.073	0.085
1,3,5-Trimethylbenzene	ug/L	0.060	0.095	0.047	0.14	0.057	0.077	0.13
2-Chlorotoluene	ug/L	0.12	0.11	0.068	0.15	0.025	0.047	0.12
4-Chlorotoluene	ug/L	0.079	0.069	0.043	0.14	0.037	0.032	0.069
tert-Butylbenzene	ug/L	0.11	0.15	0.075	0.19	0.038	0.042	0.079
1,2,4-Trimethylbenzene	ug/L	0.091	0.088	0.066	0.12	0.069	0.077	0.10
sec-Butylbenzene	ug/L	0.11	0.12	0.062	0.17	0.088	0.041	0.076
para-Isopropyl Toluene	ug/L	0.058	0.12	0.12	0.14	0.056	0.055	0.045
1,3-Dichlorobenzene	ug/L	0.080	0.16	0.097	0.18	0.060	0.071	0.10
1,4-Dichlorobenzene	ug/L	0.068	0.14	0.095	0.18	0.038	0.092	0.17
n-Butylbenzene	ug/L	0.12	0.15	0.11	0.18	0.21	0.048	0.12
1,2-Dichlorobenzene	ug/L	0.072	0.14	0.080	0.14	0.16	0.068	0.061
1,2-Dibromo-3-Chloropropane	ug/L	0.39	0.25	0.21	0.22	0.13	0.26	0.098
1,2,4-Trichlorobenzene	ug/L	0.12	0.17	0.14	0.16	0.10	0.16	0.17
Hexachlorobutadiene	ug/L	0.19	0.19	0.29	0.21	0.11	0.24	0.25
Naphthalene	ug/L	0.12	0.13	0.060	0.10	0.091	0.20	0.16
1,2,3-Trichlorobenzene	ug/L	0.063	0.17	0.10	0.20	0.095	0.18	0.29
tert-Butyl Alcohol (TBA)	ug/L	1.3	1.6	0.83	2.5	1.3	0.94	1.3
Isopropyl Ether (DIPE)	ug/L	0.068	0.070	0.063	0.027	0.030	0.053	0.027
Ethyl tert-Butyl Ether (ETBE)	ug/L	0.089	0.045	0.024	0.20	0.033	0.075	0.034
Methyl tert-Amyl Ether (TAME)	ug/L	0.094	0.13	0.055	0.054	0.048	0.032	0.057
Isopropanol	ug/L	4.6	2.7	1.6	6.6	1.5	1.4	1.1
Ethanol	ug/L	55	22	23	50	11	7.9	36
Hexane	ug/L				0.33		0.15	
Cyclohexanone	ug/L	3.8	2.4	0.21	1.6	1.6	2.5	
Tetrahydrofuran	ug/L	0.64	1.2	1.1	0.79	1.4	1.7	3.5
Tetramethyl THF	ug/L	0.067	0.061	0.062	0.20	0.10	0.055	0.078
Gasoline C6-C10	ug/L		15		4.8	15	8.5	
Gasoline C7-C12	ug/L		18		2.4	13	7.7	
Dibromofluoromethane	ug/L	3.1	2.9	1.8	2.4	1.5		3.2
1,2-Dichloroethane-d4	ug/L	3.0	3.9		2.4	1.2		3.0
Toluene-d8	ug/L	1.7	3.8		1.1	1.0		1.1
Bromofluorobenzene	ug/L	2.5	2.6		1.2	1.2		1.5
Trifluorotoluene	ug/L	0.12	0.43	0.065	0.21	0.13		0.14

SEMI-VOLATILE ORGANIC COMPOUNDS

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8270C
Field ID:	DW031306A	Batch#:	111390
Lab ID:	185511-012	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Prepared:	03/16/06
Diln Fac:	1.000	Analyzed:	03/20/06

Analyte	Result	RL	MDL
Phenol	ND	9.7	
bis(2-Chloroethyl)ether	ND	9.7	
2-Chlorophenol	ND	9.7	
1,3-Dichlorobenzene	ND	9.7	
1,4-Dichlorobenzene	ND	9.7	
Benzyl alcohol	ND	9.7	
1,2-Dichlorobenzene	ND	9.7	
2-Methylphenol	ND	9.7	
bis(2-Chloroisopropyl) ether	ND	9.7	
4-Methylphenol	ND	9.7	
N-Nitroso-di-n-propylamine	ND	9.7	
Hexachloroethane	ND	9.7	
Nitrobenzene	ND	9.7	
Isophorone	ND	9.7	
2-Nitrophenol	ND	19	1.3
2,4-Dimethylphenol	ND	9.7	
Benzoic acid	ND	49	
bis(2-Chloroethoxy)methane	ND	9.7	
2,4-Dichlorophenol	ND	9.7	
1,2,4-Trichlorobenzene	ND	9.7	
Naphthalene	ND	9.7	
4-Chloroaniline	ND	9.7	
Hexachlorobutadiene	ND	9.7	
4-Chloro-3-methylphenol	ND	9.7	
2-Methylnaphthalene	ND	9.7	
Hexachlorocyclopentadiene	ND	49	
2,4,6-Trichlorophenol	ND	9.7	
2,4,5-Trichlorophenol	ND	9.7	
2-Chloronaphthalene	ND	9.7	
2-Nitroaniline	ND	19	
Dimethylphthalate	ND	9.7	
Acenaphthylene	ND	9.7	
2,6-Dinitrotoluene	ND	9.7	
3-Nitroaniline	ND	19	
Acenaphthene	ND	9.7	
2,4-Dinitrophenol	ND	49	
4-Nitrophenol	ND	19	
Dibenzofuran	ND	9.7	
2,4-Dinitrotoluene	ND	9.7	
Diethylphthalate	ND	9.7	
Fluorene	ND	9.7	
4-Chlorophenyl-phenylether	ND	9.7	
4-Nitroaniline	ND	19	
4,6-Dinitro-2-methylphenol	ND	49	
N-Nitrosodiphenylamine	ND	9.7	
4-Bromophenyl-phenylether	ND	9.7	
Hexachlorobenzene	ND	9.7	
Pentachlorophenol	ND	19	
Phenanthrene	ND	9.7	
Anthracene	ND	9.7	
Di-n-butylphthalate	ND	9.7	
Fluoranthene	ND	9.7	
Pyrene	ND	9.7	

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8270C
Field ID:	DW031306A	Batch#:	111390
Lab ID:	185511-012	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Prepared:	03/16/06
Diln Fac:	1.000	Analyzed:	03/20/06

Analyte	Result	RL	MDL
Butylbenzylphthalate	ND	9.7	
3,3'-Dichlorobenzidine	ND	19	0.41
Benzo(a)anthracene	ND	9.7	
Chrysene	ND	9.7	
bis(2-Ethylhexyl)phthalate	ND	9.7	
Di-n-octylphthalate	ND	9.7	
Benzo(b)fluoranthene	ND	9.7	
Benzo(k)fluoranthene	ND	9.7	
Benzo(a)pyrene	ND	9.7	
Indeno(1,2,3-cd)pyrene	ND	9.7	
Dibenz(a,h)anthracene	ND	9.7	
Benzo(g,h,i)perylene	ND	9.7	

Surrogate	%REC	Limits
2-Fluorophenol	92	21-100
Phenol-d5	95	10-100
2,4,6-Tribromophenol	102	10-123
Nitrobenzene-d5	86	36-114
2-Fluorobiphenyl	87	43-116
Terphenyl-d14	89	33-141

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8270C
Field ID:	DW031306B	Batch#:	111390
Lab ID:	185511-013	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Prepared:	03/16/06
Diln Fac:	1.000	Analyzed:	03/20/06

Analyte	Result	RL	MDL
Phenol	ND	9.7	
bis(2-Chloroethyl)ether	ND	9.7	
2-Chlorophenol	ND	9.7	
1,3-Dichlorobenzene	ND	9.7	
1,4-Dichlorobenzene	ND	9.7	
Benzyl alcohol	ND	9.7	
1,2-Dichlorobenzene	ND	9.7	
2-Methylphenol	ND	9.7	
bis(2-Chloroisopropyl) ether	ND	9.7	
4-Methylphenol	ND	9.7	
N-Nitroso-di-n-propylamine	ND	9.7	
Hexachloroethane	ND	9.7	
Nitrobenzene	ND	9.7	
Isophorone	ND	9.7	
2-Nitrophenol	ND	19	1.3
2,4-Dimethylphenol	ND	9.7	
Benzoic acid	ND	49	
bis(2-Chloroethoxy)methane	ND	9.7	
2,4-Dichlorophenol	ND	9.7	
1,2,4-Trichlorobenzene	ND	9.7	
Naphthalene	ND	9.7	
4-Chloroaniline	ND	9.7	
Hexachlorobutadiene	ND	9.7	
4-Chloro-3-methylphenol	ND	9.7	
2-Methylnaphthalene	ND	9.7	
Hexachlorocyclopentadiene	ND	49	
2,4,6-Trichlorophenol	ND	9.7	
2,4,5-Trichlorophenol	ND	9.7	
2-Chloronaphthalene	ND	9.7	
2-Nitroaniline	ND	19	
Dimethylphthalate	ND	9.7	
Acenaphthylene	ND	9.7	
2,6-Dinitrotoluene	ND	9.7	
3-Nitroaniline	ND	19	
Acenaphthene	ND	9.7	
2,4-Dinitrophenol	ND	49	
4-Nitrophenol	ND	19	
Dibenzofuran	ND	9.7	
2,4-Dinitrotoluene	ND	9.7	
Diethylphthalate	ND	9.7	
Fluorene	ND	9.7	
4-Chlorophenyl-phenylether	ND	9.7	
4-Nitroaniline	ND	19	
4,6-Dinitro-2-methylphenol	ND	49	
N-Nitrosodiphenylamine	ND	9.7	
4-Bromophenyl-phenylether	ND	9.7	
Hexachlorobenzene	ND	9.7	
Pentachlorophenol	ND	19	
Phenanthrene	ND	9.7	
Anthracene	ND	9.7	
Di-n-butylphthalate	ND	9.7	
Fluoranthene	ND	9.7	
Pyrene	ND	9.7	

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8270C
Field ID:	DW031306B	Batch#:	111390
Lab ID:	185511-013	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Prepared:	03/16/06
Diln Fac:	1.000	Analyzed:	03/20/06

Analyte	Result	RL	MDL
Butylbenzylphthalate	ND	9.7	
3,3'-Dichlorobenzidine	ND	19	0.41
Benzo(a)anthracene	ND	9.7	
Chrysene	ND	9.7	
bis(2-Ethylhexyl)phthalate	ND	9.7	
Di-n-octylphthalate	ND	9.7	
Benzo(b)fluoranthene	ND	9.7	
Benzo(k)fluoranthene	ND	9.7	
Benzo(a)pyrene	ND	9.7	
Indeno(1,2,3-cd)pyrene	ND	9.7	
Dibenz(a,h)anthracene	ND	9.7	
Benzo(g,h,i)perylene	ND	9.7	

Surrogate	%REC	Limits
2-Fluorophenol	91	21-100
Phenol-d5	98	10-100
2,4,6-Tribromophenol	105	10-123
Nitrobenzene-d5	90	36-114
2-Fluorobiphenyl	90	43-116
Terphenyl-d14	89	33-141

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331843	Batch#:	111390
Matrix:	Water	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/20/06

Analyte	Result	RL	MDL
Phenol	ND	10	
bis(2-Chloroethyl)ether	ND	10	
2-Chlorophenol	ND	10	
1,3-Dichlorobenzene	ND	10	
1,4-Dichlorobenzene	ND	10	
Benzyl alcohol	ND	10	
1,2-Dichlorobenzene	ND	10	
2-Methylphenol	ND	10	
bis(2-Chloroisopropyl) ether	ND	10	
4-Methylphenol	ND	10	
N-Nitroso-di-n-propylamine	ND	10	
Hexachloroethane	ND	10	
Nitrobenzene	ND	10	
Isophorone	ND	10	
2-Nitrophenol	ND	20	1.6
2,4-Dimethylphenol	ND	10	
Benzoic acid	ND	50	
bis(2-Chloroethoxy)methane	ND	10	
2,4-Dichlorophenol	ND	10	
1,2,4-Trichlorobenzene	ND	10	
Naphthalene	ND	10	
4-Chloroaniline	ND	10	
Hexachlorobutadiene	ND	10	
4-Chloro-3-methylphenol	ND	10	
2-Methylnaphthalene	ND	10	
Hexachlorocyclopentadiene	ND	50	
2,4,6-Trichlorophenol	ND	10	
2,4,5-Trichlorophenol	ND	10	
2-Chloronaphthalene	ND	10	
2-Nitroaniline	ND	20	
Dimethylphthalate	ND	10	
Acenaphthylene	ND	10	
2,6-Dinitrotoluene	ND	10	
3-Nitroaniline	ND	20	
Acenaphthene	ND	10	
2,4-Dinitrophenol	ND	50	
4-Nitrophenol	ND	20	
Dibenzofuran	ND	10	
2,4-Dinitrotoluene	ND	10	
Diethylphthalate	ND	10	
Fluorene	ND	10	
4-Chlorophenyl-phenylether	ND	10	
4-Nitroaniline	ND	20	
4,6-Dinitro-2-methylphenol	ND	50	
N-Nitrosodiphenylamine	ND	10	
4-Bromophenyl-phenylether	ND	10	
Hexachlorobenzene	ND	10	
Pentachlorophenol	ND	20	
Phenanthrene	ND	10	
Anthracene	ND	10	
Di-n-butylphthalate	ND	10	
Fluoranthene	ND	10	
Pyrene	ND	10	

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331843	Batch#:	111390
Matrix:	Water	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/20/06

Analyte	Result	RL	MDL
Butylbenzylphthalate	ND	10	
3,3'-Dichlorobenzidine	ND	20	0.44
Benzo(a)anthracene	ND	10	
Chrysene	ND	10	
bis(2-Ethylhexyl)phthalate	ND	10	
Di-n-octylphthalate	ND	10	
Benzo(b)fluoranthene	ND	10	
Benzo(k)fluoranthene	ND	10	
Benzo(a)pyrene	ND	10	
Indeno(1,2,3-cd)pyrene	ND	10	
Dibenz(a,h)anthracene	ND	10	
Benzo(g,h,i)perylene	ND	10	

Surrogate	%REC	Limits
2-Fluorophenol	67	21-100
Phenol-d5	72	10-100
2,4,6-Tribromophenol	73	10-123
Nitrobenzene-d5	82	36-114
2-Fluorobiphenyl	90	43-116
Terphenyl-d14	85	33-141

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8270C
Matrix:	Water	Batch#:	111390
Units:	ug/L	Prepared:	03/16/06
Diln Fac:	1.000	Analyzed:	03/20/06

Type: BS Lab ID: QC331844

Analyte	Spiked	Result	%REC	Limits
Phenol	100.0	87.25	87	17-100
2-Chlorophenol	100.0	86.75	87	46-114
1,4-Dichlorobenzene	50.00	36.68	73	38-111
N-Nitroso-di-n-propylamine	50.00	44.42	89	42-108
1,2,4-Trichlorobenzene	50.00	40.33	81	39-110
4-Chloro-3-methylphenol	100.0	89.89	90	54-116
Acenaphthene	50.00	46.16	92	49-111
4-Nitrophenol	100.0	82.82	83	10-100
2,4-Dinitrotoluene	50.00	45.66	91	48-118
Pentachlorophenol	100.0	106.8	107	13-153
Pyrene	50.00	42.77	86	57-150

Surrogate	%REC	Limits
2-Fluorophenol	84	21-100
Phenol-d5	84	10-100
2,4,6-Tribromophenol	96	10-123
Nitrobenzene-d5	88	36-114
2-Fluorobiphenyl	95	43-116
Terphenyl-d14	84	33-141

Type: BSD Lab ID: QC331845

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	100.0	81.73	82	17-100	7	29
2-Chlorophenol	100.0	79.97	80	46-114	8	28
1,4-Dichlorobenzene	50.00	27.59	55	38-111	28	28
N-Nitroso-di-n-propylamine	50.00	41.76	84	42-108	6	18
1,2,4-Trichlorobenzene	50.00	38.16	76	39-110	6	25
4-Chloro-3-methylphenol	100.0	86.13	86	54-116	4	25
Acenaphthene	50.00	45.09	90	49-111	2	16
4-Nitrophenol	100.0	81.60	82	10-100	1	50
2,4-Dinitrotoluene	50.00	45.09	90	48-118	1	15
Pentachlorophenol	100.0	104.0	104	13-153	3	45
Pyrene	50.00	41.43	83	57-150	3	24

Surrogate	%REC	Limits
2-Fluorophenol	78	21-100
Phenol-d5	79	10-100
2,4,6-Tribromophenol	92	10-123
Nitrobenzene-d5	82	36-114
2-Fluorobiphenyl	94	43-116
Terphenyl-d14	82	33-141

RPD= Relative Percent Difference

CURTIS & TOMPKINS DFTPP TUNE FOR 185511 MSBNA Water
EPA 8270C

Inst : MSBNA04 Run Name: NP NL IDF : 1.0
Seqnum : 536108715002 File : wcg02 Time : 16-MAR-2006 12:43

Standards: S1637

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30.00% - 60.00% of mass 198	75453	51.29	
68	< 2.00% of mass 69	0	0	
69		91866		
70	< 2.00% of mass 69	495	0.54	
127	40.00% - 60.00% of mass 198	71234	48.42	
197	< 1.00% of mass 198	0	0	
199	5.00% - 9.00% of mass 198	9588	6.52	
275	10.00% - 30.00% of mass 198	35194	23.92	
365	> 1.00% of mass 198	4388	2.98	
441	Present, < mass 443	20073	80.39	
442	> 40.00% and < 100.00% of mass 198	127184	86.46	
443	17.00% - 23.00% of mass 442	24970	19.63	

CURTIS & TOMPKINS DFTPP TUNE FOR 185511 MSBNA Water
EPA 8270C

Inst : MSBNA04 Run Name: NP NL IDF : 1.0
Seqnum : 536110111001 File : wch01 Time : 17-MAR-2006 11:11

Standards: S1637

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30.00% - 60.00% of mass 198	70136	40.66	
68	< 2.00% of mass 69	0	0	
69		94928		
70	< 2.00% of mass 69	221	0.23	
127	40.00% - 60.00% of mass 198	80304	46.56	
197	< 1.00% of mass 198	0	0	
199	5.00% - 9.00% of mass 198	11725	6.80	
275	10.00% - 30.00% of mass 198	43304	25.11	
365	> 1.00% of mass 198	4998	2.90	
441	Present, < mass 443	23456	78.50	
442	> 40.00% and < 100.00% of mass 198	150208	87.09	
443	17.00% - 23.00% of mass 442	29880	19.89	

CURTIS & TOMPKINS DFTPP TUNE FOR 185511 MSBNA Water
EPA 8270C

Inst : MSBNA04 Run Name: NP NL IDF : 1.0
Seqnum : 536114537002 File : wck02 Time : 20-MAR-2006 12:35

Standards: S1637

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30.00% - 60.00% of mass 198	71360	48.55	
68	< 2.00% of mass 69	0	0	
69		93816		
70	< 2.00% of mass 69	284	0.30	
127	40.00% - 60.00% of mass 198	69645	47.39	
197	< 1.00% of mass 198	0	0	
199	5.00% - 9.00% of mass 198	10316	7.02	
275	10.00% - 30.00% of mass 198	34333	23.36	
365	> 1.00% of mass 198	3878	2.64	
441	Present, < mass 443	19598	79.40	
442	> 40.00% and < 100.00% of mass 198	124261	84.55	
443	17.00% - 23.00% of mass 442	24684	19.86	

CURTIS & TOMPKINS DFTPP TUNE FOR 185511 MSBNA Water
EPA 8270C

Inst : MSBNA08 Run Name: NP NL IDF : 1.0
Seqnum : 576098484002 File : sc902 Time : 09-MAR-2006 09:37

Standards: S1637

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30.00% - 60.00% of mass 198	37432	43.83	
68	< 2.00% of mass 69	0	0	
69		47736		
70	< 2.00% of mass 69	414	0.87	
127	40.00% - 60.00% of mass 198	40656	47.60	
197	< 1.00% of mass 198	0	0	
199	5.00% - 9.00% of mass 198	5812	6.80	
275	10.00% - 30.00% of mass 198	15646	18.32	
365	> 1.00% of mass 198	1572	1.84	
441	Present, < mass 443	8376	81.36	
442	> 40.00% and < 100.00% of mass 198	53448	62.58	
443	17.00% - 23.00% of mass 442	10295	19.26	

CURTIS & TOMPKINS DFTPP TUNE FOR 185511 MSBNA Water
EPA 8270C

Inst : MSBNA08 Run Name: NP NL IDF : 1.0
Seqnum : 576114421004 File : sck04 Time : 20-MAR-2006 14:47

Standards: S1637

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30.00% - 60.00% of mass 198	40824	56.80	
68	< 2.00% of mass 69	0	0	
69		44448		
70	< 2.00% of mass 69	0	0	
127	40.00% - 60.00% of mass 198	41304	57.47	
197	< 1.00% of mass 198	0	0	
199	5.00% - 9.00% of mass 198	4877	6.79	
275	10.00% - 30.00% of mass 198	13067	18.18	
365	> 1.00% of mass 198	1391	1.94	
441	Present, < mass 443	5149	76.86	
442	> 40.00% and < 100.00% of mass 198	34512	48.02	
443	17.00% - 23.00% of mass 442	6699	19.41	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185511 MSBNA Water: EPA 8270C

Inst : MSBNA08
Calnum : 576098484001
Units : ng

Name : 6PTBNA8
Date : 09-MAR-2006 10:54
X Axis : R

Reviewer: MCH
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	sc904	576098484004	2ug/mL	09-MAR-2006 10:54	S2578
L2	sc905	576098484005	5ug/mL	09-MAR-2006 11:28	S2579
L3	sc906	576098484006	10ug/mL	09-MAR-2006 12:02	S2580
L4	sc907	576098484007	20ug/mL	09-MAR-2006 12:38	S2581
L5	sc908	576098484008	50ug/mL	09-MAR-2006 13:12	S2582
L6	sc909	576098484009	80ug/mL	09-MAR-2006 13:47	S2583
L7	sc910	576098484010	100ug/mL	09-MAR-2006 14:22	S2584
L8	sc911	576098484011	120ug/mL	09-MAR-2006 14:57	S2585
L9	sc912	576098484012	160ug/mL	09-MAR-2006 15:32	S2586

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Phenol			2.1858	2.2022	2.1314	2.1216	2.1297	2.0406	2.0020	AVRG		0.47255		2.1162	3	15	0.050	0.99	
bis(2-Chloroethyl)ether			1.7180	1.7039	1.6236	1.5919	1.5687	1.3826	1.2905	AVRG		0.64343		1.5542	10	15	0.050	0.99	
2-Chlorophenol			1.5572	1.5708	1.5298	1.5447	1.5806	1.5689	1.5771	AVRG		0.64050		1.5613	1	15	0.050	0.99	
1,3-Dichlorobenzene			1.7137	1.6765	1.6406	1.6770	1.7176	1.6461	1.6423	AVRG		0.59758		1.6734	2	15	0.050	0.99	
1,4-Dichlorobenzene			1.7149	1.7427	1.6858	1.7040	1.7429	1.6524	1.6232	AVRG		0.58992		1.6951	3	15	0.050	0.99	
Benzyl alcohol			1.1574	1.1562	1.1318	1.1415	1.1454	1.1539	1.1429	AVRG		0.87182		1.1470	1	15	0.050	0.99	
1,2-Dichlorobenzene			1.6615	1.6449	1.5830	1.5856	1.5927	1.4397	1.4078	AVRG		0.64130		1.5593	6	15	0.050	0.99	
2-Methylphenol			1.3157	1.2860	1.2130	1.2016	1.1893	1.0902	1.0685	AVRG		0.83687		1.1949	8	15	0.050	0.99	
bis(2-Chloroisopropyl) ether			4.2906	4.1798	3.8805	3.8130	3.7053	3.2317	2.9953	AVRG		0.26824		3.7280	13	15	0.050	0.99	
4-Methylphenol			1.8731	1.9235	1.8613	1.8948	1.9386	1.9201	1.8999	AVRG		0.52587		1.9016	1	15	0.050	0.99	
N-Nitroso-di-n-propylamine			1.2681	1.2807	1.2151	1.2166	1.2067	1.1517	1.0968	AVRG		0.82979		1.2051	5	15	0.050	0.99	
Hexachloroethane			0.7825	0.7962	0.7669	0.7773	0.7925	0.7554	0.7335	AVRG		1.29526		0.7720	3	15	0.050	0.99	
Nitrobenzene			0.5002	0.4952	0.4802	0.4776	0.4935	0.4608	0.4473	AVRG		2.08642		0.4793	4	15	0.050	0.99	
Isophorone			0.9636	0.9714	0.9256	0.9294	0.9784	0.9311	0.8947	AVRG		1.06152		0.9420	3	15	0.050	0.99	
2-Nitrophenol			0.2138	0.2130	0.2186	0.2204	0.2298	0.2053	0.1968	AVRG		4.67378		0.2140	5	15	0.050	0.99	
2,4-Dimethylphenol			0.3324	0.3341	0.3364	0.3239	0.3430	0.2991	0.2873	AVRG		3.10266		0.3223	7	15	0.050	0.99	
bis(2-Chloroethoxy)methane			0.6366	0.6326	0.6006	0.5875	0.6088	0.5544	0.5321	AVRG		1.68571		0.5932	7	15	0.050	0.99	
Benzoic acid				0.0864	0.1351	0.1547	0.1811m	0.1971m	0.2201	QUAD	12.1533	5.72707	-0.04431	0.1624	0.998	15	0.050	0.99	
2,4-Dichlorophenol			0.2920	0.2946	0.3005	0.2986	0.3211	0.3176	0.3164	AVRG		3.26997		0.3058	4	15	0.050	0.99	
1,2,4-Trichlorobenzene			0.3434	0.3414	0.3450	0.3492	0.3728	0.3486	0.3426	AVRG		2.86530		0.3490	3	15	0.050	0.99	
Naphthalene	1.2366	1.2339	1.2427	1.1902	1.1758	1.1893	1.2400	1.0751	1.0352	AVRG		0.84754		1.1799	6	15	0.050	0.99	
4-Chloroaniline			0.5537	0.5221	0.4973	0.4915	0.5707	0.5428m	0.5174	AVRG		1.89421		0.5279	6	15	0.050	0.99	
Hexachlorobutadiene			0.1870	0.1874	0.1911	0.1933	0.2014	0.1875	0.1790	AVRG		5.27611		0.1895	4	15	0.050	0.99	
4-Chloro-3-methylphenol			0.3466	0.3514	0.3428	0.3353	0.3489	0.3347	0.3295	AVRG		2.92996		0.3413	2	15	0.050	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
2-Methylnaphthalene	0.7797	0.7658	0.7610	0.7518	0.7405	0.7290	0.7439	0.6565	0.6340	AVRG		1.37146		0.7291	7	15	0.050	0.99	
Hexachlorocyclopentadiene			0.2142	0.2492	0.2792	0.2947	0.3119	0.3053	0.3107	AVRG		3.56211		0.2807	13	15	0.050	0.99	
2,4,6-Trichlorophenol			0.3371	0.3650	0.3806	0.3920	0.4069	0.4031	0.4028	AVRG		2.60476		0.3839	7	15	0.050	0.99	
2,4,5-Trichlorophenol			0.3640	0.3800	0.4073	0.4282	0.4495	0.4474	0.4391	AVRG		2.40097		0.4165	8	15	0.050	0.99	
2-Chloronaphthalene			1.2156	1.2296	1.2280	1.2484	1.2631	1.1441	1.1080	AVRG		0.82971		1.2052	5	15	0.050	0.99	
2-Nitroaniline			0.4652	0.4907	0.4939	0.4956	0.5083	0.4880	0.4769	AVRG		2.04757		0.4884	3	15	0.050	0.99	
Dimethylphthalate			1.4270	1.4209	1.3994	1.4082	1.4200	1.3563	1.3281	AVRG		0.71722		1.3943	3	15	0.050	0.99	
2,6-Dinitrotoluene			0.3490	0.3636	0.3746	0.3844	0.3999	0.4003	0.4010	AVRG		2.61895		0.3818	5	15	0.050	0.99	
Acenaphthylene	2.2378	1.9665	1.9106	1.9331	1.9020	1.9210	1.9460	1.7799	1.7186	AVRG		0.51976		1.9240	7	15	0.050	0.99	
3-Nitroaniline			0.3445	0.3486	0.3802	0.3960	0.4101	0.4183	0.4240	AVRG		2.57188		0.3888	8	15	0.050	0.99	
Acenaphthene	1.3625	1.1613	1.1532	1.1702	1.2009	1.2054	1.1852	1.0768	1.0531	AVRG		0.85159		1.1743	7	15	0.050	0.99	
2,4-Dinitrophenol			0.0175	0.0474	0.1049	0.1279	0.1446	0.1592	0.1727	QUAD	12.1207	7.05344	-0.06363	0.1106	0.998	15	0.050	0.99	
4-Nitrophenol				0.1330	0.1559	0.1583	0.1660	0.1701	0.1713	AVRG		6.28600		0.1591	9	15	0.050	0.99	
Dibenzofuran			1.7127	1.6982	1.6930	1.7323	1.7470	1.6109	1.5795	AVRG		0.59455		1.6819	4	15	0.050	0.99	
2,4-Dinitrotoluene			0.4031	0.4415	0.4586	0.4735	0.4840	0.4943	0.4996	AVRG		2.15087		0.4649	7	15	0.050	0.99	
Diethylphthalate			1.5248	1.5066	1.4605	1.4753	1.4872	1.3220	1.2970	AVRG		0.69490		1.4390	6	15	0.050	0.99	
Fluorene	1.5063	1.3671	1.3467	1.3650	1.3659	1.3720	1.3727	1.2561	1.2302	AVRG		0.73880		1.3536	6	15	0.050	0.99	
4-Chlorophenyl-phenylether			0.6369	0.6471	0.6507	0.6599	0.6731	0.6071	0.5863	AVRG		1.56910		0.6373	5	15	0.050	0.99	
4-Nitroaniline			0.3252	0.3536	0.3789	0.3914	0.4019	0.4058	0.4116	AVRG		2.62326		0.3812	8	15	0.050	0.99	
4,6-Dinitro-2-methylphenol				0.0775	0.1177	0.1394	0.1539	0.1661	0.1761	QUAD	11.9145	6.40352	-0.04220	0.1384	0.998	15	0.050	0.99	
N-Nitrosodiphenylamine			0.5546	0.5654	0.5583	0.5769	0.6051	0.5714	0.5703	AVRG		1.74918		0.5717	3	15	0.050	0.99	
4-Bromophenyl-phenylether			0.2416	0.2470	0.2561	0.2656	0.2761	0.2586	0.2589	AVRG		3.88017		0.2577	4	15	0.050	0.99	
Hexachlorobenzene			0.2722	0.2747	0.2857	0.2929	0.3012	0.2776	0.2752	AVRG		3.53625		0.2828	4	15	0.050	0.99	
Pentachlorophenol				0.0936	0.1258	0.1459	0.1557	0.1661	0.1743	LINR	14.8016	5.30074		0.1436	0.996	15	0.050	0.99	
Phenanthrene	1.3909	1.2561	1.2437	1.2490	1.2593	1.2785	1.2981	1.1707	1.1694	AVRG		0.79535		1.2573	5	15	0.050	0.99	
Anthracene	1.4001	1.2420	1.2107	1.2412	1.2371	1.2557	1.2845	1.1335	1.1279	AVRG		0.80843		1.2370	7	15	0.050	0.99	
Di-n-butylphthalate			1.8337	1.8306	1.7597	1.7357	1.7515	1.5254	1.4481	AVRG		0.58899		1.6978	9	15	0.050	0.99	
Fluoranthene	1.3756	1.2305	1.2129	1.2352	1.2323	1.2624	1.2643	1.1416	1.1518	AVRG		0.81033		1.2341	6	15	0.050	0.99	
Pyrene	1.8962	1.7816	1.7219	1.7138	1.7611	1.8098	1.8907	1.7871	1.7857	AVRG		0.55735		1.7942	4	15	0.050	0.99	
Butylbenzylphthalate			1.0722	1.0704	1.0179	1.0411	1.0730	1.0150	0.9908	AVRG		0.96148		1.0401	3	15	0.050	0.99	
3,3'-Dichlorobenzidine			0.4475	0.4601	0.5239	0.5477	0.5732	0.5578	0.5643	AVRG		1.90497		0.5249	10	15	0.050	0.99	
Benzo(a)anthracene	1.7674	1.6270	1.5778	1.6112	1.5998	1.6255	1.6608	1.5991	1.5874	AVRG		0.61408		1.6284	4	15	0.050	0.99	
bis(2-Ethylhexyl)phthalate			1.4669	1.4582	1.3974	1.4175	1.4513	1.3126	1.2632	AVRG		0.71670		1.3953	6	15	0.050	0.99	
Chrysene	1.4130	1.2902	1.3003	1.2987	1.2637	1.2976	1.3474	1.2937	1.2897	AVRG		0.76308		1.3105	3	15	0.050	0.99	
Di-n-octylphthalate			2.8231	2.8077	2.8536	2.9998	3.1991	3.2082	3.1509	AVRG		0.33266		3.0061	6	15	0.050	0.99	
Benzo(b)fluoranthene	1.5466m	1.5207m	1.5760	1.4371	1.4851	1.7148	1.6571	1.9455	2.0506	AVRG		0.60268		1.6593	13	15	0.050	0.99	
Benzo(k)fluoranthene	1.5120	1.4160	1.4378	1.5883	1.5736	1.5219	1.8000	1.6558	1.6191	AVRG		0.63719		1.5694	7	15	0.050	0.99	
Benzo(a)pyrene	1.2358	1.2016	1.2223	1.2548	1.2825	1.3366	1.4025	1.4336	1.4420	AVRG		0.76195		1.3124	7	15	0.050	0.99	
Indeno(1,2,3-cd)pyrene	1.1111	0.9999	1.0701	1.1067	1.1171	1.1427	1.1489	1.1212	1.0965	AVRG		0.90779		1.1016	4	15	0.050	0.99	
Dibenz(a,h)anthracene	0.8838	0.7941	0.8550	0.8982	0.9368	0.9649	0.9741	0.9542	0.9362	AVRG		1.09791		0.9108	6	15	0.050	0.99	
Benzo(g,h,i)perylene	0.9172	0.8090	0.8273	0.8346	0.8225	0.8381	0.8273	0.8017	0.7902	AVRG		1.20516		0.8298	4	15	0.050	0.99	

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Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
2-Fluorophenol			1.4265	1.4199	1.3826	1.3949	1.4188	1.3883	1.4053	AVRG		0.71165		1.4052	1	15	0.050	0.99	
Phenol-d5			1.9490	1.9794	1.9065	1.8998	1.9184	1.8619	1.8178	AVRG		0.52502		1.9047	3	15	0.050	0.99	
Nitrobenzene-d5			0.5015	0.4905	0.4794	0.4679	0.4841	0.4661	0.4415	AVRG		2.10157		0.4758	4	15	0.050	0.99	
2-Fluorobiphenyl			1.2437	1.2580	1.2679	1.2836	1.2976	1.1815	1.1231	AVRG		0.80875		1.2365	5	15	0.050	0.99	
2,4,6-Tribromophenol			0.1462	0.1635	0.1825	0.1937	0.2053	0.2073	0.2075	AVRG		5.35987		0.1866	13	15	0.050	0.99	
Terphenyl-d14			1.2423	1.2620	1.2758	1.3047	1.3378	1.2246	1.1818	AVRG		0.79284		1.2613	4	15	0.050	0.99	

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m=manual integration

AVRG=Average response factor LINR=Linear regression QUAD=Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

576098484001

BNA 08 8270 Calibration

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 8270C

3/10/06

Inst : MSBNA08 Name : 6PTBNA8
Calnum : 576098484001 Date : 09-MAR-2006 10:54 Inj Vol: 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	sc904	576098484004	2ug/mL	09-MAR-2006 10:54	S2578
L2	sc905	576098484005	5ug/mL	09-MAR-2006 11:28	S2579
L3	sc906	576098484006	10ug/mL	09-MAR-2006 12:02	S2580
L4	sc907	576098484007	20ug/mL	09-MAR-2006 12:38	S2581
L5	sc908	576098484008	50ug/mL	09-MAR-2006 13:12	S2582
L6	sc909	576098484009	80ug/mL	09-MAR-2006 13:47	S2583
L7	sc910	576098484010	100ug/mL	09-MAR-2006 14:22	S2584
L8	sc911	576098484011	120ug/mL	09-MAR-2006 14:57	S2585
L9	sc912	576098484012	160ug/mL	09-MAR-2006 15:32	S2586

ICAL: Benzidine fails %RSD = NT
ICV: 2,3,4,6-Tetrachlorophenol ↓ = NT
MC: [Chrysene ↓; Dibenz(a,h)anthracene ↓]

Manual integration due to tailing/fronting/splitting/unidentified peaks

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
N-Nitrosodimethylamine			1.1467	1.1340	1.1118	1.1073	1.1335	1.1095	1.1032	AVRG	R		0.89216		ng	1.1209	2	15	0.050	0.99	
Pyridine			1.8869	1.9061	1.8801	1.9059	1.9203	1.8871	1.9023	AVRG	R		0.52676		ng	1.8984	1	15	0.050	0.99	
Phenol			2.1858	2.2022	2.1314	2.1216	2.1297	2.0406	2.0020	AVRG	R		0.47255		ng	2.1162	3	15	0.050	0.99	
Aniline			1.0073	1.0280	1.0028	0.9718	1.0044	0.9468	0.9266	AVRG	R		1.01631		ng	0.9840	4	15	0.050	0.99	
bis(2-Chloroethyl)ether			1.7180	1.7039	1.6236	1.5919	1.5687	1.3826	1.2905	AVRG	R		0.64343		ng	1.5542	10	15	0.050	0.99	
2-Chlorophenol			1.5572	1.5708	1.5298	1.5447	1.5806	1.5689	1.5771	AVRG	R		0.64050		ng	1.5613	1	15	0.050	0.99	
1,3-Dichlorobenzene			1.7137	1.6765	1.6406	1.6770	1.7176	1.6461	1.6423	AVRG	R		0.59758		ng	1.6734	2	15	0.050	0.99	
1,4-Dichlorobenzene			1.7149	1.7427	1.6858	1.7040	1.7429	1.6524	1.6232	AVRG	R		0.58992		ng	1.6951	3	15	0.050	0.99	
Benzyl alcohol			1.1574	1.1562	1.1318	1.1415	1.1454	1.1539	1.1429	AVRG	R		0.87182		ng	1.1470	1	15	0.050	0.99	
1,2-Dichlorobenzene			1.6615	1.6449	1.5830	1.5856	1.5927	1.4397	1.4078	AVRG	R		0.64130		ng	1.5593	6	15	0.050	0.99	
2-Methylphenol			1.3157	1.2860	1.2130	1.2016	1.1893	1.0902	1.0685	AVRG	R		0.83687		ng	1.1949	8	15	0.050	0.99	
bis(2-Chloroisopropyl) ether			4.2906	4.1798	3.8805	3.8130	3.7053	3.2317	2.9953	AVRG	R		0.26824		ng	3.7280	13	15	0.050	0.99	
4-Methylphenol			1.8731	1.9235	1.8613	1.8948	1.9386	1.9201	1.8999	AVRG	R		0.52587		ng	1.9016	1	15	0.050	0.99	
N-Nitroso-di-n-propylamine			1.2681	1.2807	1.2151	1.2166	1.2067	1.1517	1.0968	AVRG	R		0.82979		ng	1.2051	5	15	0.050	0.99	
Hexachloroethane			0.7825	0.7962	0.7669	0.7773	0.7925	0.7554	0.7335	AVRG	R		1.29526		ng	0.7720	3	15	0.050	0.99	
Nitrobenzene			0.5002	0.4952	0.4802	0.4776	0.4935	0.4608	0.4473	AVRG	R		2.08642		ng	0.4793	4	15	0.050	0.99	
Isophorone			0.9636	0.9714	0.9256	0.9294	0.9784	0.9311	0.8947	AVRG	R		1.06152		ng	0.9420	3	15	0.050	0.99	
2-Nitrophenol			0.2138	0.2130	0.2186	0.2204	0.2298	0.2053	0.1968	AVRG	R		4.67378		ng	0.2140	5	15	0.050	0.99	
2,4-Dimethylphenol			0.3324	0.3341	0.3364	0.3239	0.3430	0.2991	0.2873	AVRG	R		3.10266		ng	0.3223	7	15	0.050	0.99	
bis(2-Chloroethoxy)methane			0.6366	0.6326	0.6006	0.5875	0.6088	0.5544	0.5321	AVRG	R		1.68571		ng	0.5932	7	15	0.050	0.99	
Benzoic acid				0.0864	0.1351	0.1547	0.1811m	0.1971m	0.2201	QUAD	R	12.1533	5.72707	-0.04431	ng	0.1624	0.998	15	0.050	0.99	
2,4-Dichlorophenol			0.2920	0.2946	0.3005	0.2986	0.3211	0.3176	0.3164	AVRG	R		3.26997		ng	0.3058	4	15	0.050	0.99	
1,2,4-Trichlorobenzene			0.3434	0.3414	0.3450	0.3492	0.3728	0.3486	0.3426	AVRG	R		2.86530		ng	0.3490	3	15	0.050	0.99	
Naphthalene	1.2366	1.2339	1.2427	1.1902	1.1758	1.1893	1.2400	1.0751	1.0352	AVRG	R		0.84754		ng	1.1799	6	15	0.050	0.99	
4-Chloroaniline			0.5537	0.5221	0.4973	0.4915	0.5707	0.5428m	0.5174	AVRG	R		1.89421		ng	0.5279	6	15	0.050	0.99	

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3/10/06 JAP 03/10/06

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Hexachlorobutadiene			0.1870	0.1874	0.1911	0.1933	0.2014	0.1875	0.1790	AVRG	R		5.27611		ng	0.1895	4	15	0.050	0.99	
4-Chloro-3-methylphenol			0.3466	0.3514	0.3428	0.3353	0.3489	0.3347	0.3295	AVRG	R		2.92996		ng	0.3413	2	15	0.050	0.99	
2-Methylnaphthalene	0.7797	0.7658	0.7610	0.7518	0.7405	0.7290	0.7439	0.6565	0.6340	AVRG	R		1.37146		ng	0.7291	7	15	0.050	0.99	
Resorcinol			0.2860	0.2507	0.2827	0.2930	0.3010	0.3060	0.3024	AVRG	R		3.46222		ng	0.2888	7	15	0.050	0.99	
Hexachlorocyclopentadiene			0.2142	0.2492	0.2792	0.2947	0.3119	0.3053	0.3107	AVRG	R		3.56211		ng	0.2807	13	15	0.050	0.99	
2,4,6-Trichlorophenol			0.3371	0.3650	0.3806	0.3920	0.4069	0.4031	0.4028	AVRG	R		2.60476		ng	0.3839	7	15	0.050	0.99	
2,4,5-Trichlorophenol			0.3640	0.3800	0.4073	0.4282	0.4495	0.4474	0.4391	AVRG	R		2.40097		ng	0.4165	8	15	0.050	0.99	
2-Chloronaphthalene			1.2156	1.2296	1.2280	1.2484	1.2631	1.1441	1.1080	AVRG	R		0.82971		ng	1.2052	5	15	0.050	0.99	
2-Nitroaniline			0.4652	0.4907	0.4939	0.4956	0.5083	0.4880	0.4769	AVRG	R		2.04757		ng	0.4884	3	15	0.050	0.99	
Dimethylphthalate			1.4270	1.4209	1.3994	1.4082	1.4200	1.3563	1.3281	AVRG	R		0.71722		ng	1.3943	3	15	0.050	0.99	
2,6-Dinitrotoluene			0.3490	0.3636	0.3746	0.3844	0.3999	0.4003	0.4010	AVRG	R		2.61895		ng	0.3818	5	15	0.050	0.99	
Acenaphthylene	2.2378	1.9665	1.9106	1.9331	1.9020	1.9210	1.9460	1.7799	1.7186	AVRG	R		0.51976		ng	1.9240	7	15	0.050	0.99	
3-Nitroaniline			0.3445	0.3486	0.3802	0.3960	0.4101	0.4183	0.4240	AVRG	R		2.57188		ng	0.3888	8	15	0.050	0.99	
Acenaphthene	1.3625	1.1613	1.1532	1.1702	1.2009	1.2054	1.1852	1.0768	1.0531	AVRG	R		0.85159		ng	1.1743	7	15	0.050	0.99	
2,4-Dinitrophenol			0.0175	0.0474	0.1049	0.1279	0.1446	0.1592	0.1727	QUAD	R	12.1207	7.05344	-0.06363	ng	0.1106	0.998	15	0.050	0.99	
4-Nitrophenol				0.1330	0.1559	0.1583	0.1660	0.1701	0.1713	AVRG	R		6.28600		ng	0.1591	9	15	0.050	0.99	
Dibenzofuran			1.7127	1.6982	1.6930	1.7323	1.7470	1.6109	1.5795	AVRG	R		0.59455		ng	1.6819	4	15	0.050	0.99	
2,4-Dinitrotoluene			0.4031	0.4415	0.4586	0.4735	0.4840	0.4943	0.4996	AVRG	R		2.15087		ng	0.4649	7	15	0.050	0.99	
2,3,4,6-Tetrachlorophenol			0.2337	0.2724	0.3026	0.3239	0.3426	0.3484	0.3456	AVRG	R		3.22675		ng	0.3099	14	15	0.050	0.99	
Diethylphthalate			1.5248	1.5066	1.4605	1.4753	1.4872	1.3220	1.2970	AVRG	R		0.69490		ng	1.4390	6	15	0.050	0.99	
Fluorene	1.5063	1.3671	1.3467	1.3650	1.3659	1.3720	1.3727	1.2561	1.2302	AVRG	R		0.73880		ng	1.3536	6	15	0.050	0.99	
4-Chlorophenyl-phenylether			0.6369	0.6471	0.6507	0.6599	0.6731	0.6071	0.5863	AVRG	R		1.56910		ng	0.6373	5	15	0.050	0.99	
4-Nitroaniline			0.3252	0.3536	0.3789	0.3914	0.4019	0.4058	0.4116	AVRG	R		2.62326		ng	0.3812	8	15	0.050	0.99	
4,6-Dinitro-2-methylphenol				0.0775	0.1177	0.1394	0.1539	0.1661	0.1761	QUAD	R	11.9145	6.40352	-0.04220	ng	0.1384	0.998	15	0.050	0.99	
N-Nitrosodiphenylamine			0.5546	0.5654	0.5583	0.5769	0.6051	0.5714	0.5703	AVRG	R		1.74918		ng	0.5717	3	15	0.050	0.99	
Azobenzene			1.2881	1.3160	1.2273	1.2209	1.2085	1.0345	0.9938	AVRG	R		0.84449		ng	1.1841	10	15	0.050	0.99	
4-Bromophenyl-phenylether			0.2416	0.2470	0.2561	0.2656	0.2761	0.2586	0.2589	AVRG	R		3.88017		ng	0.2577	4	15	0.050	0.99	
Hexachlorobenzene			0.2722	0.2747	0.2857	0.2929	0.3012	0.2776	0.2752	AVRG	R		3.53625		ng	0.2828	4	15	0.050	0.99	
Pentachlorophenol				0.0936	0.1258	0.1459	0.1557	0.1661	0.1743	LINR	R	14.8016	5.30074		ng	0.1436	0.996	15	0.050	0.99	
Phenanthrene	1.3909	1.2561	1.2437	1.2490	1.2593	1.2785	1.2981	1.1707	1.1694	AVRG	R		0.79535		ng	1.2573	5	15	0.050	0.99	
Anthracene	1.4001	1.2420	1.2107	1.2412	1.2371	1.2557	1.2845	1.1335	1.1279	AVRG	R		0.80843		ng	1.2370	7	15	0.050	0.99	
Carbazole			1.0104	1.0338	1.0819	1.1360	1.1916	1.1112	1.1173	AVRG	R		0.91119		ng	1.0975	6	15	0.050	0.99	
Di-n-butylphthalate			1.8337	1.8306	1.7597	1.7357	1.7515	1.5254	1.4481	AVRG	R		0.58899		ng	1.6978	9	15	0.050	0.99	
Fluoranthene	1.3756	1.2305	1.2129	1.2352	1.2323	1.2624	1.2643	1.1416	1.1518	AVRG	R		0.81033		ng	1.2341	6	15	0.050	0.99	
Benzidine			0.1238	0.1538	0.2491	0.2159	0.2563	0.2228	0.2226	AVRG	R		4.84665		ng	0.2063	24	15	0.050	0.99	rsd
Pyrene	1.8962	1.7816	1.7219	1.7138	1.7611	1.8098	1.8907	1.7871	1.7857	AVRG	R		0.55735		ng	1.7942	4	15	0.050	0.99	
Butylbenzylphthalate			1.0722	1.0704	1.0179	1.0411	1.0730	1.0150	0.9908	AVRG	R		0.96148		ng	1.0401	3	15	0.050	0.99	
3,3'-Dichlorobenzidine			0.4475	0.4601	0.5239	0.5477	0.5732	0.5578	0.5643	AVRG	R		1.90497		ng	0.5249	10	15	0.050	0.99	
Benzo(a)anthracene	1.7674	1.6270	1.5778	1.6112	1.5998	1.6255	1.6608	1.5991	1.5874	AVRG	R		0.61408		ng	1.6284	4	15	0.050	0.99	
bis(2-Ethylhexyl)phthalate			1.4669	1.4582	1.3974	1.4175	1.4513	1.3126	1.2632	AVRG	R		0.71670		ng	1.3953	6	15	0.050	0.99	
Chrysene	1.4130	1.2902	1.3003	1.2987	1.2637	1.2976	1.3474	1.2937	1.2897	AVRG	R		0.76308		ng	1.3105	3	15	0.050	0.99	

300

576098484001

VAM 03/10/06

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Di-n-octylphthalate			2.8231	2.8077	2.8536	2.9998	3.1991	3.2082	3.1509	AVRG	R		0.33266		ng	3.0061	6	15	0.050	0.99	
Benzo(b)fluoranthene	1.5466m	1.5207m	1.5760	1.4371	1.4851	1.7148	1.6571	1.9455	2.0506	AVRG	R		0.60268		ng	1.6593	13	15	0.050	0.99	
Benzo(k)fluoranthene	1.5120	1.4160	1.4378	1.5883	1.5736	1.5219	1.8000	1.6558	1.6191	AVRG	R		0.63719		ng	1.5694	7	15	0.050	0.99	
Benzo(a)pyrene	1.2358	1.2016	1.2223	1.2548	1.2825	1.3366	1.4025	1.4336	1.4420	AVRG	R		0.76195		ng	1.3124	7	15	0.050	0.99	
Indeno(1,2,3-cd)pyrene	1.1111	0.9999	1.0701	1.1067	1.1171	1.1427	1.1489	1.1212	1.0965	AVRG	R		0.90779		ng	1.1016	4	15	0.050	0.99	
Dibenz(a,h)anthracene	0.8838	0.7941	0.8550	0.8982	0.9368	0.9649	0.9741	0.9542	0.9362	AVRG	R		1.09791		ng	0.9108	6	15	0.050	0.99	
Benzo(g,h,i)perylene	0.9172	0.8090	0.8273	0.8346	0.8225	0.8381	0.8273	0.8017	0.7902	AVRG	R		1.20516		ng	0.8298	4	15	0.050	0.99	
2-Fluorophenol			1.4265	1.4199	1.3826	1.3949	1.4188	1.3883	1.4053	AVRG	R		0.71165		ng	1.4052	1	15	0.050	0.99	
Phenol-d5			1.9490	1.9794	1.9065	1.8998	1.9184	1.8619	1.8178	AVRG	R		0.52502		ng	1.9047	3	15	0.050	0.99	
Nitrobenzene-d5			0.5015	0.4905	0.4794	0.4679	0.4841	0.4661	0.4415	AVRG	R		2.10157		ng	0.4758	4	15	0.050	0.99	
2-Fluorobiphenyl			1.2437	1.2580	1.2679	1.2836	1.2976	1.1815	1.1231	AVRG	R		0.80875		ng	1.2365	5	15	0.050	0.99	
2,4,6-Tribromophenol			0.1462	0.1635	0.1825	0.1937	0.2053	0.2073	0.2075	AVRG	R		5.35987		ng	0.1866	13	15	0.050	0.99	
Terphenyl-d14			1.2423	1.2620	1.2758	1.3047	1.3378	1.2246	1.1818	AVRG	R		0.79284		ng	1.2613	4	15	0.050	0.99	

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m=manual integration rsd=ICAL %RSD failure

AVRG=Average response factor LINR=Linear regression QUAD=Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

576098484001

VAID 03/14/00

Target Software Initial Calibration Summary Sent to LIMS: 6PTBNA8

Calibration 576098484001 6PTBNA8 created.

No problems detected.

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC904.D
Report Date: 09-Mar-2006 16:05

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC904.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 09-MAR-2006 10:54 MS Autotune Date: 13-JAN-2006 14:49
Operator : BNA Inst ID: MSBNA08.i
Smp Info : ICAL,S2578
Misc Info : 2ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\6PTBNA8.m
Meth Date : 09-Mar-2006 16:05 target Quant Type: ISTD
Cal Date : 09-MAR-2006 10:54 Cal File: SC904.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	74	5.201	5.210	(0.648)	10038	2.00000	2.0268(aQ)
2 Pyridine	79	5.283	5.271	(0.658)	16315	2.00000	1.9451(a)
$ 3 2-Fluorophenol	112	6.550	6.558	(0.816)	12508	2.00000	2.0146(a)
$ 4 Phenol-d5	99	7.520	7.529	(0.936)	17582	2.00000	2.0892(a)
5 Phenol	94	7.531	7.539	(0.938)	19747	2.00000	2.1119(a)
6 Aniline	66	7.643	7.652	(0.952)	9896	2.00000	2.2762(aQ)
7 bis(2-Chloroethyl)ether	63	7.674	7.682	(0.955)	15515	2.00000	2.2594(aQ)
8 2-Chlorophenol	128	7.786	7.795	(0.969)	14591	2.00000	2.1151(aQ)
9 1,3-Dichlorobenzene	146	7.980	7.979	(0.994)	15218	2.00000	2.0582(a)
* 10 1,4-Dichlorobenzene-d4	152	8.031	8.039	(1.000)	176733	40.0000	
11 1,4-Dichlorobenzene	146	8.052	8.060	(1.003)	16153	2.00000	2.1567(a)
12 Benzyl alcohol	108	8.154	8.163	(1.015)	10706	2.00000	2.1124(a)
13 1,2-Dichlorobenzene	146	8.246	8.244	(1.027)	15172	2.00000	2.2021(a)
14 2-Methylphenol	107	8.246	8.255	(1.027)	11881	2.00000	2.2503(a)
15 bis(2-Chloroisopropyl) ether	45	8.297	8.295	(1.033)	38698	2.00000	2.3493(a)
16 4-Methylphenol	107	8.420	8.428	(1.048)	17691	2.00000	2.1055(a)
17 N-Nitroso-di-n-propylamine	70	8.460	8.468	(1.053)	11932	2.00000	2.2408(a)
18 Hexachloroethane	117	8.655	8.653	(1.078)	6920	2.00000	2.0286(aQ)
$ 19 Nitrobenzene-d5	82	8.685	8.694	(0.907)	15781	2.00000	1.9294(a)
20 Nitrobenzene	77	8.716	8.714	(0.910)	18821	2.00000	2.2845(a)

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC904.D
Report Date: 09-Mar-2006 16:05

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	8.971	9.000	(0.937)	33492	2.00000	2.0683(a)
	22 2-Nitrophenol	139	9.094	9.103	(0.950)	6756	2.00000	1.8370(a)
	23 2,4-Dimethylphenol	122	9.074	9.082	(0.948)	12287	2.00000	2.2178(a)
	24 bis(2-Chloroethoxy)methane	93	9.196	9.205	(0.961)	22806	2.00000	2.2366(a)
	25 Benzoic acid	122	9.074	9.215	(0.948)	12287	2.00000	16.2245(Q)
	26 2,4-Dichlorophenol	162	9.370	9.378	(0.979)	9973	2.00000	1.8972(aQ)
	27 1,2,4-Trichlorobenzene	180	9.492	9.501	(0.991)	12130	2.00000	2.0220(a)
*	28 Naphthalene-d8	136	9.574	9.583	(1.000)	687544	40.0000	
	29 Naphthalene	128	9.605	9.613	(1.003)	42511	2.00000	2.0961(a)
	30 4-Chloroaniline	127	9.636	9.644	(1.006)	19769	2.00000	2.1785(a)
	31 Hexachlorobutadiene	225	9.727	9.726	(1.016)	5961	2.00000	1.8297(aQ)
	32 Resorcinol	110	10.014	10.043	(1.046)	12632	2.00000	2.5444(aAQ)
	33 4-Chloro-3-methylphenol	107	10.177	10.186	(1.063)	12497	2.00000	2.1302(a)
	34 2-Methylnaphthalene	142	10.453	10.462	(1.092)	26804	2.00000	2.1386(a)
	35 Hexachlorocyclopentadiene	237	10.637	10.646	(0.903)	3966	2.00000	1.4350(a)
	36 2,4,6-Trichlorophenol	196	10.780	10.789	(0.915)	6609	2.00000	1.7486(aQ)
	37 2,4,5-Trichlorophenol	196	10.831	10.840	(0.919)	7098	2.00000	1.7310(aQ)
$	38 2-Fluorobiphenyl	172	10.882	10.891	(0.924)	26146	2.00000	2.1479(a)
	39 2-Chloronaphthalene	162	11.076	11.075	(0.940)	27070	2.00000	2.2814(a)
	40 2-Nitroaniline	65	11.178	11.187	(0.949)	9283	2.00000	1.9307(a)
	41 Dimethylphthalate	163	11.352	11.371	(0.964)	31941	2.00000	2.3270(a)
	42 2,6-Dinitrotoluene	165	11.454	11.463	(0.972)	7007	2.00000	1.8640(aQ)
	43 Acenaphthylene	152	11.608	11.616	(0.985)	44061	2.00000	2.3262(a)
	44 3-Nitroaniline	138	11.679	11.708	(0.991)	7476	2.00000	1.9530(aQ)
*	45 Acenaphthene-d10	164	11.781	11.780	(1.000)	393788	40.0000	
	46 Acenaphthene	154	11.812	11.831	(1.003)	26826	2.00000	2.3205(a)
	49 Dibenzofuran	168	12.027	12.035	(1.021)	38159	2.00000	2.3045(a)
	50 2,4-Dinitrotoluene	165	11.965	11.984	(1.016)	7963	2.00000	1.7397(a)
	52 Diethylphthalate	149	12.210	12.229	(1.036)	34028	2.00000	2.4019(a)
	53 4-Chlorophenyl-phenylether	204	12.415	12.423	(1.054)	14212	2.00000	2.2651(aQ)
	54 Fluorene	166	12.456	12.475	(1.057)	29658	2.00000	2.2256(a)
	55 4-Nitroaniline	138	12.456	12.485	(1.057)	7188	2.00000	1.9153(aQ)
	57 N-Nitrosodiphenylamine	169	12.558	12.577	(0.919)	18914	2.00000	2.1494(a)
	58 Azobenzene	77	12.619	12.628	(0.924)	43839	2.00000	2.4052(a)
	60 4-Bromophenyl-phenylether	248	13.038	13.047	(0.954)	7725	2.00000	1.9474(a)
	61 Hexachlorobenzene	284	13.171	13.180	(0.964)	9061	2.00000	2.0817(a)
*	63 Phenanthrene-d10	188	13.661	13.660	(1.000)	615670	40.0000	
	64 Phenanthrene	178	13.682	13.701	(1.001)	42816	2.00000	2.2124(a)
	65 Anthracene	178	13.753	13.762	(1.007)	43100	2.00000	2.2637(a)
	66 Carbazole	167	13.927	13.936	(1.019)	36803	2.00000	2.1787(a)
	67 Di-n-butylphthalate	149	14.244	14.252	(1.043)	61926	2.00000	2.3697(a)
	68 Fluoranthene	202	15.215	15.223	(1.114)	42347	2.00000	2.2294(a)
	69 Benzidine	184	15.327	15.336	(0.877)	7293	2.00000	3.1936(a)
	70 Pyrene	202	15.541	15.560	(0.889)	41972	2.00000	2.1136(a)
$	71 Terphenyl-d14	244	15.674	15.683	(0.897)	28900	2.00000	2.0702(a)
	72 Butylbenzylphthalate	149	16.338	16.347	(0.935)	24205	2.00000	2.1027(a)
	73 bis(2-Ethylhexyl)phthalate	149	17.248	17.256	(0.987)	33103	2.00000	2.1436(a)
	74 3,3'-Dichlorobenzidine	252	17.340	17.359	(0.992)	9964	2.00000	1.7150(a)
	75 Benzo(a)anthracene	228	17.452	17.471	(0.998)	39122	2.00000	2.1706(a)
*	76 Chrysene-d12	240	17.483	17.502	(1.000)	442707	40.0000	
	77 Chrysene	228	17.524	17.543	(1.002)	31278	2.00000	2.1565(a)
	78 Di-n-octylphthalate	149	18.433	18.442	(0.916)	53233	2.00000	1.8397(a)
	79 Benzo(b)fluoranthene	252	19.414	19.433	(0.965)	29773	2.00000	1.8641(aM)
	80 Benzo(k)fluoranthene	252	19.455	19.484	(0.967)	29107	2.00000	1.9268(aA)

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC904.D
Report Date: 09-Mar-2006 16:05

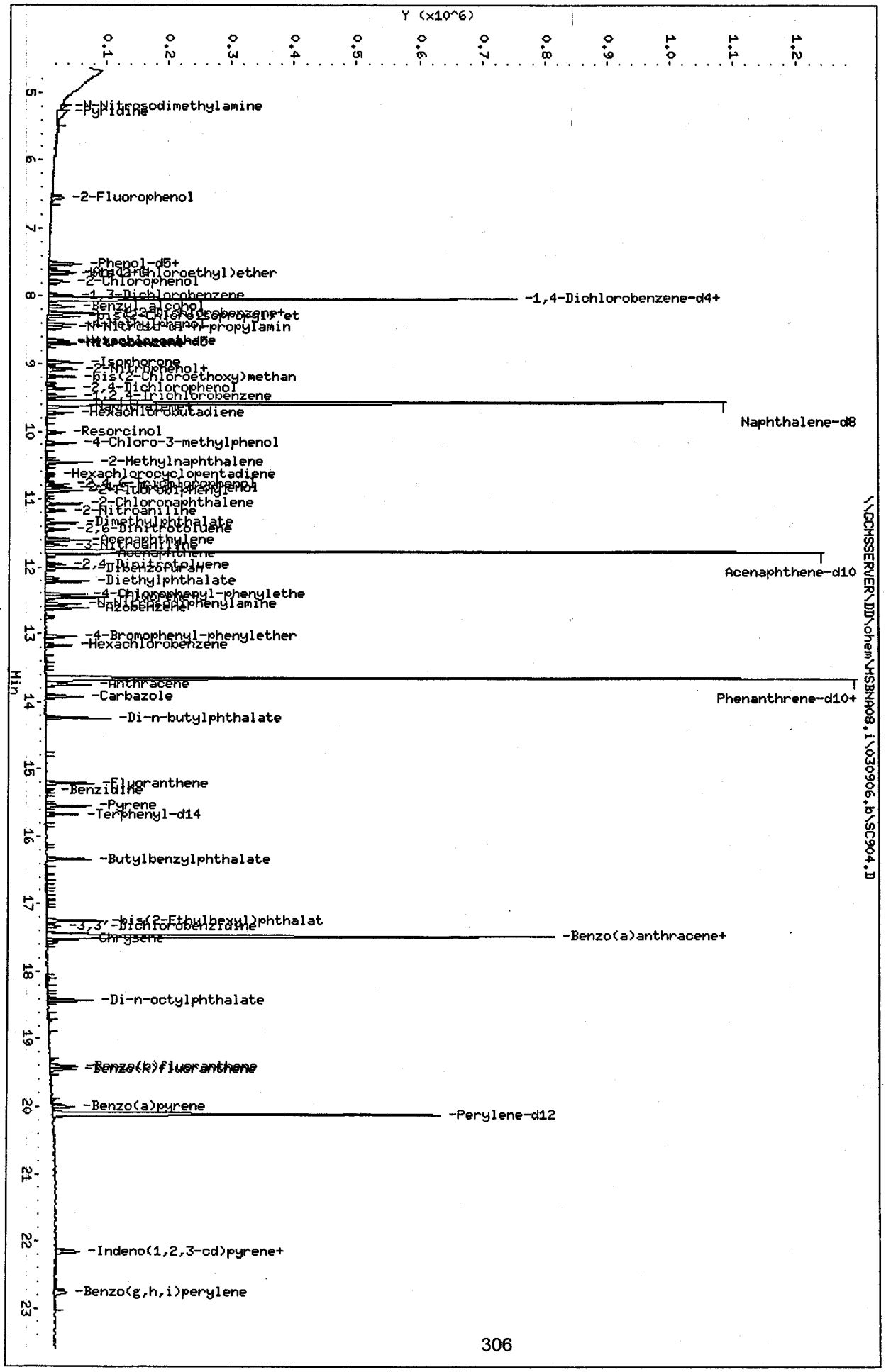
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
81 Benzo(a)pyrene	252	20.007	20.026	(0.994)	23791	2.00000	1.8832(a)
* 82 Perylene-d12	264	20.119	20.128	(1.000)	385021	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	22.163	22.192	(1.102)	21390	2.00000	2.0173(a)
84 Dibenz(a,h)anthracene	278	22.163	22.192	(1.102)	17015	2.00000	1.9407(a)
85 Benzo(g,h,i)perylene	276	22.766	22.805	(1.132)	17658	2.00000	2.2108(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC904.D
Date : 09-MAR-2006 10:54
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2578
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA08.i
Operator: BNA
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC905.D
Report Date: 09-Mar-2006 16:06

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC905.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 09-MAR-2006 11:28 MS Autotune Date: 13-JAN-2006 14:49
Operator : BNA Inst ID: MSBNA08.i
Smp Info : ICAL,S2579
Misc Info : 5ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\6PTBNA8.m
Meth Date : 09-Mar-2006 16:05 target Quant Type: ISTD
Cal Date : 09-MAR-2006 11:28 Cal File: SC905.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	74	5.205	5.210	(0.648)	27004	5.00000	5.0474
2 Pyridine	79	5.276	5.271	(0.657)	43883	5.00000	4.8429(a)
$ 3 2-Fluorophenol	112	6.554	6.558	(0.816)	34364	5.00000	5.1234
$ 4 Phenol-d5	99	7.514	7.529	(0.935)	47491	5.00000	5.2238
5 Phenol	94	7.535	7.539	(0.938)	52809	5.00000	5.2281
6 Aniline	66	7.647	7.652	(0.952)	24596	5.00000	5.2370(Q)
7 bis(2-Chloroethyl)ether	63	7.678	7.682	(0.955)	41004	5.00000	5.5274(Q)
8 2-Chlorophenol	128	7.790	7.795	(0.969)	37342	5.00000	5.0108
9 1,3-Dichlorobenzene	146	7.974	7.979	(0.992)	41033	5.00000	5.1372
* 10 1,4-Dichlorobenzene-d4	152	8.035	8.039	(1.000)	190925	40.0000	
11 1,4-Dichlorobenzene	146	8.056	8.060	(1.003)	42756	5.00000	5.2843
12 Benzyl alcohol	108	8.148	8.163	(1.014)	26553	5.00000	4.8499(a)
13 1,2-Dichlorobenzene	146	8.240	8.244	(1.025)	39849	5.00000	5.3540
14 2-Methylphenol	107	8.240	8.255	(1.025)	31210	5.00000	5.4720
15 bis(2-Chloroisopropyl) ether	45	8.291	8.295	(1.032)	102211	5.00000	5.7439
16 4-Methylphenol	107	8.413	8.428	(1.047)	46137	5.00000	5.0830
17 N-Nitroso-di-n-propylamine	70	8.454	8.468	(1.052)	31114	5.00000	5.4090
18 Hexachloroethane	117	8.648	8.653	(1.076)	18752	5.00000	5.0886
$ 19 Nitrobenzene-d5	82	8.689	8.694	(0.907)	46010	5.00000	5.2094
20 Nitrobenzene	77	8.710	8.714	(0.909)	46320	5.00000	5.2067

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC905.D
Report Date: 09-Mar-2006 16:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	8.975	9.000	(0.937)	89461	5.00000	5.1163
	22 2-Nitrophenol	139	9.098	9.103	(0.950)	18996	5.00000	4.7833(a)
	23 2,4-Dimethylphenol	122	9.067	9.082	(0.947)	33182	5.00000	5.5466
	24 bis(2-Chloroethoxy)methane	93	9.190	9.205	(0.959)	60004	5.00000	5.4495
	26 2,4-Dichlorophenol	162	9.374	9.378	(0.979)	26052	5.00000	4.5896(a)
	27 1,2,4-Trichlorobenzene	180	9.486	9.501	(0.990)	31421	5.00000	4.8504(a)
*	28 Naphthalene-d8	136	9.578	9.583	(1.000)	742443	40.0000	
	29 Naphthalene	128	9.599	9.613	(1.002)	114514	5.00000	5.2289
	30 4-Chloroaniline	127	9.639	9.644	(1.006)	47374	5.00000	4.8346(a)
	31 Hexachlorobutadiene	225	9.721	9.726	(1.015)	17212	5.00000	4.8926(a)
	32 Resorcinol	110	10.017	10.043	(1.046)	31295	5.00000	5.8374(A)
	33 4-Chloro-3-methylphenol	107	10.181	10.186	(1.063)	31936	5.00000	5.0412
	34 2-Methylnaphthalene	142	10.447	10.462	(1.091)	71070	5.00000	5.2512
	35 Hexachlorocyclopentadiene	237	10.641	10.646	(0.904)	10889	5.00000	3.6717(a)
	36 2,4,6-Trichlorophenol	196	10.784	10.789	(0.916)	17152	5.00000	4.2292(a)
	37 2,4,5-Trichlorophenol	196	10.825	10.840	(0.919)	19733	5.00000	4.4849(a)
$	38 2-Fluorobiphenyl	172	10.876	10.891	(0.924)	65646	5.00000	5.0257
	39 2-Chloronaphthalene	162	11.070	11.075	(0.940)	64407	5.00000	5.0586
	40 2-Nitroaniline	65	11.172	11.187	(0.949)	24071	5.00000	4.6656(a)
	41 Dimethylphthalate	163	11.346	11.371	(0.964)	76561	5.00000	5.1980
	42 2,6-Dinitrotoluene	165	11.448	11.463	(0.972)	18094	5.00000	4.4857(a)
	43 Acenaphthylene	152	11.601	11.616	(0.985)	103868	5.00000	5.1105
	44 3-Nitroaniline	138	11.683	11.708	(0.992)	18626	5.00000	4.5346(a)
*	45 Acenaphthene-d10	164	11.775	11.780	(1.000)	422554	40.0000	
	46 Acenaphthene	154	11.816	11.831	(1.003)	61338	5.00000	4.9446(a)
	48 4-Nitrophenol	109	11.826	11.851	(1.004)	4956	5.00000	2.9490(aQ)
	49 Dibenzofuran	168	12.030	12.035	(1.022)	91005	5.00000	5.1218
	50 2,4-Dinitrotoluene	165	11.969	11.984	(1.016)	21086	5.00000	4.2932(a)
	51 2,3,4,6-Tetrachlorophenol	232	12.163	12.178	(1.033)	11534	5.00000	3.5230(aA)
	52 Diethylphthalate	149	12.214	12.229	(1.037)	83124	5.00000	5.4680
	53 4-Chlorophenyl-phenylether	204	12.408	12.423	(1.054)	34308	5.00000	5.0959
	54 Fluorene	166	12.460	12.475	(1.058)	72209	5.00000	5.0500
	55 4-Nitroaniline	138	12.460	12.485	(1.058)	16183	5.00000	4.0186(a)
	56 4,6-Dinitro-2-methylphenol	198	12.480	12.505	(0.914)	1969	5.00000	12.6904(aQM)
	57 N-Nitrosodiphenylamine	169	12.552	12.577	(0.919)	44535	5.00000	4.7976(a)
	58 Azobenzene	77	12.613	12.628	(0.924)	104560	5.00000	5.4381
$	59 2,4,6-Tribromophenol	330	12.766	12.781	(1.084)	7196	5.00000	3.6510(aQ)
	60 4-Bromophenyl-phenylether	248	13.042	13.047	(0.955)	19599	5.00000	4.6835(a)
	61 Hexachlorobenzene	284	13.165	13.180	(0.964)	22045	5.00000	4.8011(a)
	62 Pentachlorophenol	266	13.389	13.404	(0.981)	4059	5.00000	16.1266(aQ)
*	63 Phenanthrene-d10	188	13.655	13.660	(1.000)	649485	40.0000	
	64 Phenanthrene	178	13.686	13.701	(1.002)	101976	5.00000	4.9951(a)
	65 Anthracene	178	13.747	13.762	(1.007)	100829	5.00000	5.0201
	66 Carbazole	167	13.921	13.936	(1.019)	86898	5.00000	4.8765(a)
	67 Di-n-butylphthalate	149	14.248	14.252	(1.043)	150433	5.00000	5.4568
	68 Fluoranthene	202	15.208	15.223	(1.114)	99898	5.00000	4.9854(a)
	69 Benzidine	184	15.331	15.336	(0.877)	11478	5.00000	4.8265(a)
	70 Pyrene	202	15.545	15.560	(0.889)	102671	5.00000	4.9648(a)
$	71 Terphenyl-d14	244	15.668	15.683	(0.896)	71402	5.00000	4.9116(a)
	72 Butylbenzylphthalate	149	16.332	16.347	(0.934)	61541	5.00000	5.1337
	73 bis(2-Ethylhexyl)phthalate	149	17.242	17.256	(0.986)	83036	5.00000	5.1633
	74 3,3'-Dichlorobenzidine	252	17.334	17.359	(0.991)	25312	5.00000	4.1835(a)
	75 Benzo(a)anthracene	228	17.446	17.471	(0.998)	93762	5.00000	4.9955(a)
*	76 Chrysene-d12	240	17.487	17.502	(1.000)	461032	40.0000	

3/10/06

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC905.D
Report Date: 09-Mar-2006 16:06

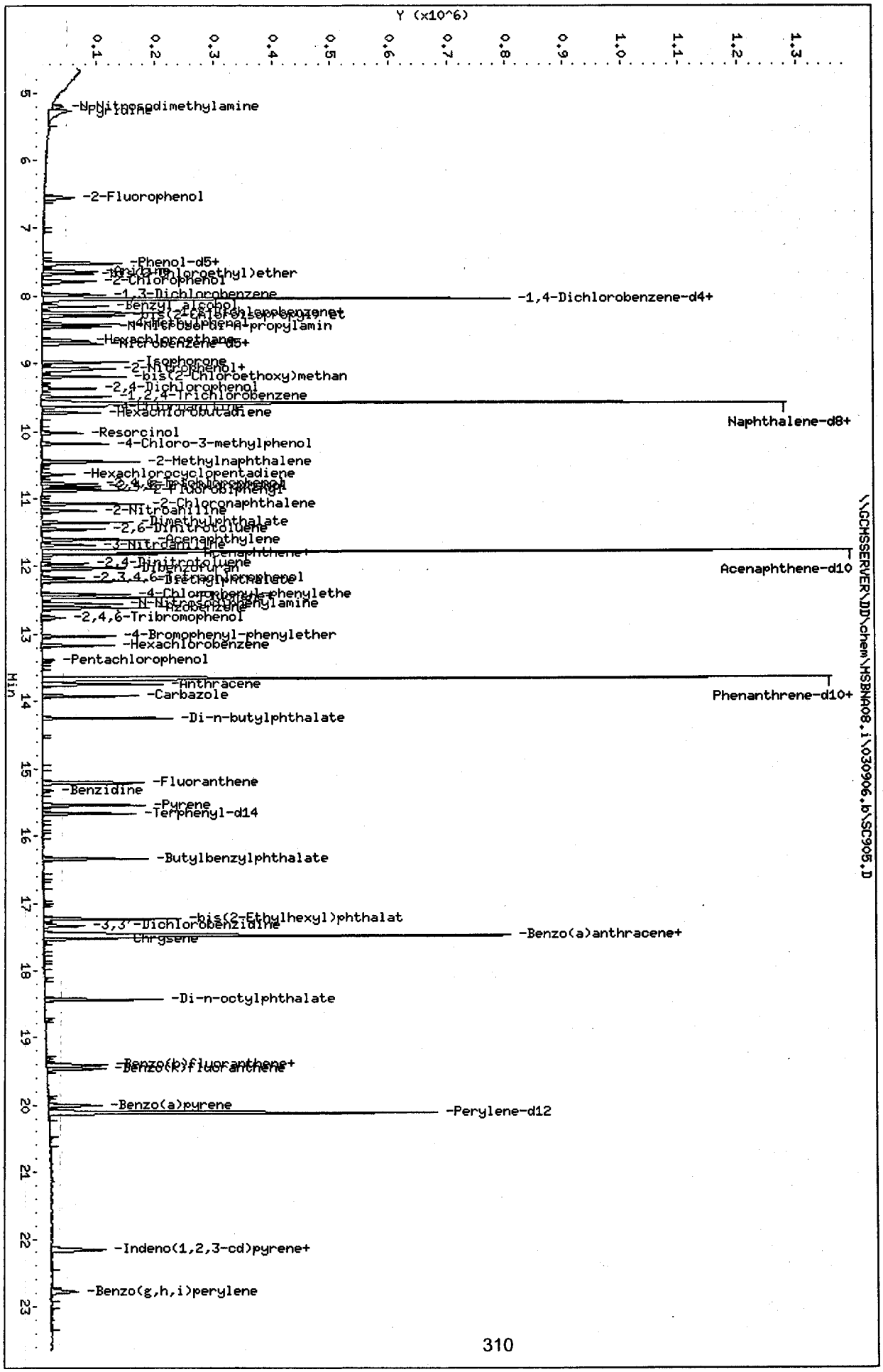
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
77 Chrysene	228	17.528	17.543	(1.002)	74352	5.00000	4.9225(a)
78 Di-n-octylphthalate	149	18.427	18.442	(0.916)	132871	5.00000	4.4773(a)
79 Benzo(b)fluoranthene	252	19.408	19.433	(0.965)	75062	5.00000	4.5823(aM)
80 Benzo(k)fluoranthene	252	19.459	19.484	(0.967)	69896	5.00000	4.5113(aA)
81 Benzo(a)pyrene	252	20.000	20.026	(0.994)	59311	5.00000	4.5777(a)
* 82 Perylene-d12	264	20.113	20.128	(1.000)	394888	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	22.167	22.192	(1.102)	49356	5.00000	4.5384(a)
84 Dibenz(a,h)anthracene	278	22.156	22.192	(1.102)	39200	5.00000	4.3595(a)
85 Benzo(g,h,i)perylene	276	22.769	22.805	(1.132)	39933	5.00000	4.8748(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC905.D
Date : 09-MAR-2006 11:28
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2579
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA08.i
Operator: BNA
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC906.D
Report Date: 09-Mar-2006 16:06

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC906.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 09-MAR-2006 12:02 MS Autotune Date: 13-JAN-2006 14:49
Operator : BNA Inst ID: MSBNA08.i
Smp Info : ICAL,S2580
Misc Info : 10ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\6PTBNA8.m
Meth Date : 09-Mar-2006 16:06 target Quant Type: ISTD
Cal Date : 09-MAR-2006 12:02 Cal File: SC906.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	74	5.209	5.210	(0.648)	49665	10.0000	10.2307
2 Pyridine	79	5.270	5.271	(0.656)	81723	10.0000	9.9396
$ 3 2-Fluorophenol	112	6.557	6.558	(0.816)	61780	10.0000	10.1514
$ 4 Phenol-d5	99	7.518	7.529	(0.935)	84409	10.0000	10.2325
5 Phenol	94	7.538	7.539	(0.938)	94667	10.0000	10.3290
6 Aniline	66	7.640	7.652	(0.950)	43626	10.0000	10.2372(Q)
7 bis(2-Chloroethyl)ether	63	7.671	7.682	(0.954)	74406	10.0000	11.0541(Q)
8 2-Chlorophenol	128	7.794	7.795	(0.969)	67440	10.0000	9.9735
9 1,3-Dichlorobenzene	146	7.978	7.979	(0.992)	74221	10.0000	10.2409
* 10 1,4-Dichlorobenzene-d4	152	8.039	8.039	(1.000)	173239	40.0000	
11 1,4-Dichlorobenzene	146	8.059	8.060	(1.003)	74274	10.0000	10.1168
12 Benzyl alcohol	108	8.151	8.163	(1.014)	50128	10.0000	10.0907
13 1,2-Dichlorobenzene	146	8.243	8.244	(1.025)	71960	10.0000	10.6553
14 2-Methylphenol	107	8.243	8.255	(1.025)	56984	10.0000	11.0109
15 bis(2-Chloroisopropyl) ether	45	8.294	8.295	(1.032)	185823	10.0000	11.5088
16 4-Methylphenol	107	8.417	8.428	(1.047)	81125	10.0000	9.8501
17 N-Nitroso-di-n-propylamine	70	8.458	8.468	(1.052)	54923	10.0000	10.5228
18 Hexachloroethane	117	8.652	8.653	(1.076)	33890	10.0000	10.1354
$ 19 Nitrobenzene-d5	82	8.683	8.694	(0.906)	82698	10.0000	10.5383
20 Nitrobenzene	77	8.713	8.714	(0.909)	82495	10.0000	10.4367

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC906.D
Report Date: 09-Mar-2006 16:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	8.979	9.000	(0.937)	158921	10.0000	10.2293
	22 2-Nitrophenol	139	9.091	9.103	(0.949)	35252	10.0000	9.9905
	23 2,4-Dimethylphenol	122	9.071	9.082	(0.947)	54821	10.0000	10.3137
	24 bis(2-Chloroethoxy)methane	93	9.194	9.205	(0.959)	104986	10.0000	10.7312
	26 2,4-Dichlorophenol	162	9.367	9.378	(0.978)	48157	10.0000	9.5486
	27 1,2,4-Trichlorobenzene	180	9.490	9.501	(0.990)	56626	10.0000	9.8383
*	28 Naphthalene-d8	136	9.582	9.583	(1.000)	659665	40.0000	
	29 Naphthalene	128	9.602	9.613	(1.002)	204938	10.0000	10.5322
	30 4-Chloroaniline	127	9.633	9.644	(1.005)	91319	10.0000	10.4887
	31 Hexachlorobutadiene	225	9.725	9.726	(1.015)	30846	10.0000	9.8684
	32 Resorcinol	110	10.021	10.043	(1.046)	47172	10.0000	9.9031(A)
	33 4-Chloro-3-methylphenol	107	10.185	10.186	(1.063)	57155	10.0000	10.1543
	34 2-Methylnaphthalene	142	10.450	10.462	(1.091)	125494	10.0000	10.4362
	35 Hexachlorocyclopentadiene	237	10.645	10.646	(0.904)	19879	10.0000	7.6315
	36 2,4,6-Trichlorophenol	196	10.788	10.789	(0.916)	31275	10.0000	8.7795
	37 2,4,5-Trichlorophenol	196	10.828	10.840	(0.919)	33774	10.0000	8.7393
$	38 2-Fluorobiphenyl	172	10.880	10.891	(0.924)	115403	10.0000	10.0586
	39 2-Chloronaphthalene	162	11.074	11.075	(0.940)	112790	10.0000	10.0856
	40 2-Nitroaniline	65	11.176	11.187	(0.949)	43169	10.0000	9.5261(a)
	41 Dimethylphthalate	163	11.350	11.371	(0.964)	132412	10.0000	10.2350
	42 2,6-Dinitrotoluene	165	11.452	11.463	(0.972)	32381	10.0000	9.1395
	43 Acenaphthylene	152	11.605	11.616	(0.985)	177285	10.0000	9.9308
	44 3-Nitroaniline	138	11.687	11.708	(0.992)	31969	10.0000	8.8611(a)
*	45 Acenaphthene-d10	164	11.779	11.780	(1.000)	371152	40.0000	
	46 Acenaphthene	154	11.820	11.831	(1.003)	107001	10.0000	9.8202
	47 2,4-Dinitrophenol	184	11.809	11.821	(1.003)	1622	10.0000	13.3517(aQ)
	48 4-Nitrophenol	109	11.830	11.851	(1.004)	10119	10.0000	6.8552(aQ)
	49 Dibenzofuran	168	12.024	12.035	(1.021)	158922	10.0000	10.1830
	50 2,4-Dinitrotoluene	165	11.963	11.984	(1.016)	37402	10.0000	8.6699
	51 2,3,4,6-Tetrachlorophenol	232	12.167	12.178	(1.033)	21688	10.0000	7.5421(A)
	52 Diethylphthalate	149	12.218	12.229	(1.037)	141481	10.0000	10.5957
	53 4-Chlorophenyl-phenylether	204	12.412	12.423	(1.054)	59101	10.0000	9.9943
	54 Fluorene	166	12.463	12.475	(1.058)	124960	10.0000	9.9495
	55 4-Nitroaniline	138	12.463	12.485	(1.058)	30177	10.0000	8.5314(a)
	56 4,6-Dinitro-2-methylphenol	198	12.484	12.505	(0.914)	6659	10.0000	14.9596(aQ)
	57 N-Nitrosodiphenylamine	169	12.555	12.577	(0.919)	77413	10.0000	9.7003
	58 Azobenzene	77	12.617	12.628	(0.924)	179803	10.0000	10.8774
$	59 2,4,6-Tribromophenol	330	12.770	12.781	(1.084)	13565	10.0000	7.8357
	60 4-Bromophenyl-phenylether	248	13.036	13.047	(0.954)	33730	10.0000	9.3757
	61 Hexachlorobenzene	284	13.168	13.180	(0.964)	37997	10.0000	9.6256
	62 Pentachlorophenol	266	13.393	13.404	(0.981)	9591	10.0000	18.4435(a)
*	63 Phenanthrene-d10	188	13.659	13.660	(1.000)	558370	40.0000	
	64 Phenanthrene	178	13.689	13.701	(1.002)	173613	10.0000	9.8918
	65 Anthracene	178	13.751	13.762	(1.007)	169011	10.0000	9.7880
	66 Carbazole	167	13.924	13.936	(1.019)	141043	10.0000	9.2066
	67 Di-n-butylphthalate	149	14.241	14.252	(1.043)	255977	10.0000	10.8005
	68 Fluoranthene	202	15.212	15.223	(1.114)	169314	10.0000	9.8285
	69 Benzidine	184	15.335	15.336	(0.877)	12437	10.0000	6.0012
	70 Pyrene	202	15.549	15.560	(0.890)	172948	10.0000	9.5967
$	71 Terphenyl-d14	244	15.672	15.683	(0.897)	124782	10.0000	9.8496
	72 Butylbenzylphthalate	149	16.336	16.347	(0.935)	107699	10.0000	10.3094
	73 bis(2-Ethylhexyl)phthalate	149	17.245	17.256	(0.987)	147336	10.0000	10.5130
	74 3,3'-Dichlorobenzidine	252	17.337	17.359	(0.992)	44948	10.0000	8.5247(a)
	75 Benzo(a)anthracene	228	17.450	17.471	(0.998)	158473	10.0000	9.6887

25.BN

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC906.D
Report Date: 09-Mar-2006 16:06

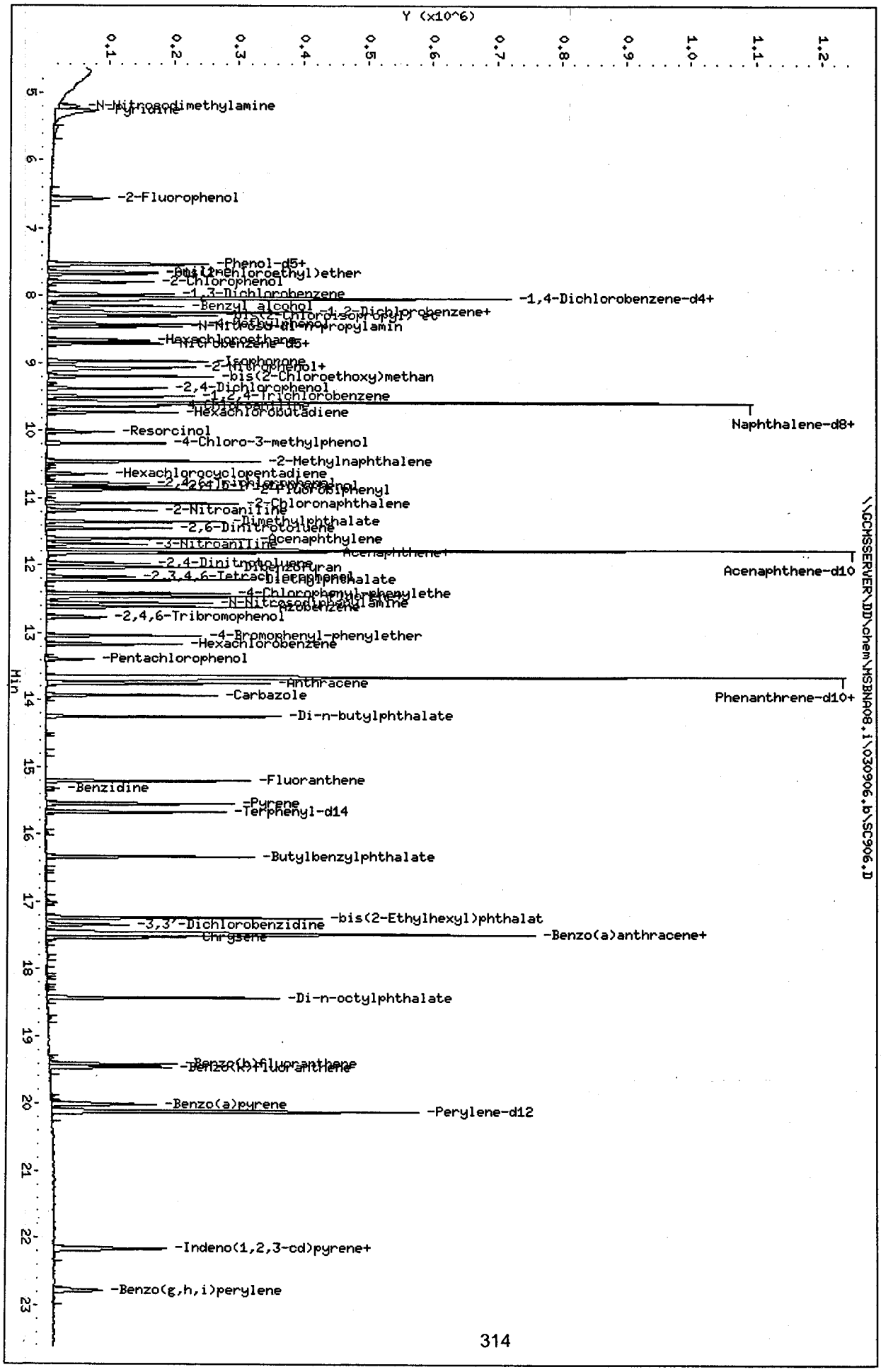
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 76 Chrysene-d12	240	17.480	17.502	(1.000)	401769	40.0000	
77 Chrysene	228	17.531	17.543	(1.003)	130609	10.0000	9.9226
78 Di-n-octylphthalate	149	18.431	18.442	(0.916)	239434	10.0000	9.3913
79 Benzo(b)fluoranthene	252	19.411	19.433	(0.965)	133665	10.0000	9.4982
80 Benzo(k)fluoranthene	252	19.463	19.484	(0.967)	121941	10.0000	9.1613(A)
81 Benzo(a)pyrene	252	20.004	20.026	(0.994)	103670	10.0000	9.3136
* 82 Perylene-d12	264	20.117	20.128	(1.000)	339249	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	22.170	22.192	(1.102)	90757	10.0000	9.7142
84 Dibenz(a,h)anthracene	278	22.160	22.192	(1.102)	72518	10.0000	9.3875
85 Benzo(g,h,i)perylene	276	22.773	22.805	(1.132)	70161	10.0000	9.9696

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC906.D
Date : 09-MAR-2006 12:02
Client ID: CURTIS&TOWPKINS
Sample Info: ICAL,S2580
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA08.i
Operator: BNA
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC907.D
Report Date: 09-Mar-2006 16:06

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC907.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 09-MAR-2006 12:38 MS Autotune Date: 13-JAN-2006 14:49
Operator : BNA Inst ID: MSBNA08.i
Smp Info : ICAL,S2581
Misc Info : 20ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\6PTBNA8.m
Meth Date : 09-Mar-2006 16:06 target Quant Type: ISTD
Cal Date : 09-MAR-2006 12:38 Cal File: SC907.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	74	5.204	5.210	(0.648)	99768	20.0000	20.2350
2 Pyridine	79	5.266	5.271	(0.655)	167689	20.0000	20.0811
$ 3 2-Fluorophenol	112	6.553	6.558	(0.816)	124918	20.0000	20.2097
$ 4 Phenol-d5	99	7.524	7.529	(0.936)	174138	20.0000	20.7846
5 Phenol	94	7.534	7.539	(0.938)	193742	20.0000	20.8132
6 Aniline	66	7.646	7.652	(0.952)	90438	20.0000	20.8951(Q)
7 bis(2-Chloroethyl)ether	63	7.677	7.682	(0.955)	149899	20.0000	21.9265(Q)
8 2-Chlorophenol	128	7.789	7.795	(0.969)	138189	20.0000	20.1215
9 1,3-Dichlorobenzene	146	7.973	7.979	(0.992)	147494	20.0000	20.0375
* 10 1,4-Dichlorobenzene-d4	152	8.035	8.039	(1.000)	175950	40.0000	
11 1,4-Dichlorobenzene	146	8.055	8.060	(1.003)	153313	20.0000	20.5610
12 Benzyl alcohol	108	8.157	8.163	(1.015)	101713	20.0000	20.1592
13 1,2-Dichlorobenzene	146	8.249	8.244	(1.027)	144707	20.0000	21.0971
14 2-Methylphenol	107	8.249	8.255	(1.027)	113138	20.0000	21.5247
15 bis(2-Chloroisopropyl) ether	45	8.290	8.295	(1.032)	367721	20.0000	22.4237
16 4-Methylphenol	107	8.423	8.428	(1.048)	169220	20.0000	20.2300
17 N-Nitroso-di-n-propylamine	70	8.464	8.468	(1.053)	112669	20.0000	21.2540
18 Hexachloroethane	117	8.658	8.653	(1.078)	70050	20.0000	20.6269
$ 19 Nitrobenzene-d5	82	8.689	8.694	(0.907)	163985	20.0000	20.6174
20 Nitrobenzene	77	8.709	8.714	(0.909)	165557	20.0000	20.6650

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC907.D
Report Date: 09-Mar-2006 16:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	8.985	9.000	(0.938)	324760	20.0000	20.6242
	22 2-Nitrophenol	139	9.097	9.103	(0.950)	71221	20.0000	19.9142
	23 2,4-Dimethylphenol	122	9.077	9.082	(0.948)	111688	20.0000	20.7313
	24 bis(2-Chloroethoxy)methane	93	9.189	9.205	(0.959)	211466	20.0000	21.3260
	25 Benzoic acid	122	9.148	9.215	(0.955)	28889	20.0000	21.9190
	26 2,4-Dichlorophenol	162	9.373	9.378	(0.979)	98471	20.0000	19.2636
	27 1,2,4-Trichlorobenzene	180	9.496	9.501	(0.991)	114147	20.0000	19.5668
*	28 Naphthalene-d8	136	9.578	9.583	(1.000)	668610	40.0000	
	29 Naphthalene	128	9.608	9.613	(1.003)	397906	20.0000	20.1757
	30 4-Chloroaniline	127	9.639	9.644	(1.006)	174548	20.0000	19.7801
	31 Hexachlorobutadiene	225	9.731	9.726	(1.016)	62652	20.0000	19.7758
	32 Resorcinol	110	10.027	10.043	(1.047)	83803	20.0000	17.3580(A)
	33 4-Chloro-3-methylphenol	107	10.180	10.186	(1.063)	117482	20.0000	20.5930
	34 2-Methylnaphthalene	142	10.456	10.462	(1.092)	251345	20.0000	20.6224
	35 Hexachlorocyclopentadiene	237	10.640	10.646	(0.904)	46334	20.0000	17.7510
	36 2,4,6-Trichlorophenol	196	10.783	10.789	(0.916)	67868	20.0000	19.0129
	37 2,4,5-Trichlorophenol	196	10.834	10.840	(0.920)	70655	20.0000	18.2451
$	38 2-Fluorobiphenyl	172	10.885	10.891	(0.925)	233936	20.0000	20.3484
	39 2-Chloronaphthalene	162	11.069	11.075	(0.940)	228656	20.0000	20.4045
	40 2-Nitroaniline	65	11.182	11.187	(0.950)	91257	20.0000	20.0966(a)
	41 Dimethylphthalate	163	11.355	11.371	(0.964)	264218	20.0000	20.3813
	42 2,6-Dinitrotoluene	165	11.458	11.463	(0.973)	67610	20.0000	19.0438
	43 Acenaphthylene	152	11.611	11.616	(0.986)	359474	20.0000	20.0951
	44 3-Nitroaniline	138	11.693	11.708	(0.993)	64829	20.0000	17.9323(a)
*	45 Acenaphthene-d10	164	11.774	11.780	(1.000)	371914	40.0000	
	46 Acenaphthene	154	11.815	11.831	(1.003)	217606	20.0000	19.9304
	47 2,4-Dinitrophenol	184	11.815	11.821	(1.003)	8816	20.0000	18.7514(aQ)
	48 4-Nitrophenol	109	11.836	11.851	(1.005)	24733	20.0000	16.7212(a)
	49 Dibenzofuran	168	12.030	12.035	(1.022)	315788	20.0000	20.1929
	50 2,4-Dinitrotoluene	165	11.969	11.984	(1.016)	82103	20.0000	18.9928
	51 2,3,4,6-Tetrachlorophenol	232	12.163	12.178	(1.033)	50663	20.0000	17.5821(A)
	52 Diethylphthalate	149	12.224	12.229	(1.038)	280163	20.0000	20.9388
	53 4-Chlorophenyl-phenylether	204	12.418	12.423	(1.055)	120331	20.0000	20.3069
	54 Fluorene	166	12.459	12.475	(1.058)	253827	20.0000	20.1688
	55 4-Nitroaniline	138	12.469	12.485	(1.059)	65750	20.0000	18.5504(a)
	56 4,6-Dinitro-2-methylphenol	198	12.490	12.505	(0.915)	21482	20.0000	21.7358(aQ)
	57 N-Nitrosodiphenylamine	169	12.561	12.577	(0.920)	156763	20.0000	19.7792
	58 Azobenzene	77	12.623	12.628	(0.924)	364889	20.0000	22.2272
$	59 2,4,6-Tribromophenol	330	12.766	12.781	(1.084)	30412	20.0000	17.5313
	60 4-Bromophenyl-phenylether	248	13.041	13.047	(0.955)	68490	20.0000	19.1694
	61 Hexachlorobenzene	284	13.174	13.180	(0.965)	76170	20.0000	19.4293
	62 Pentachlorophenol	266	13.399	13.404	(0.981)	25952	20.0000	24.7244(a)
*	63 Phenanthrene-d10	188	13.655	13.660	(1.000)	554535	40.0000	
	64 Phenanthrene	178	13.685	13.701	(1.002)	346306	20.0000	19.8678
	65 Anthracene	178	13.757	13.762	(1.007)	344141	20.0000	20.0683
	66 Carbazole	167	13.930	13.936	(1.020)	286633	20.0000	18.8394
	67 Di-n-butylphthalate	149	14.247	14.252	(1.043)	507573	20.0000	21.5644
	68 Fluoranthene	202	15.218	15.223	(1.114)	342484	20.0000	20.0185
	69 Benzidine	184	15.340	15.336	(0.877)	30566	20.0000	14.9083
	70 Pyrene	202	15.545	15.560	(0.889)	340601	20.0000	19.1038
$	71 Terphenyl-d14	244	15.678	15.683	(0.897)	250804	20.0000	20.0110
	72 Butylbenzylphthalate	149	16.342	16.347	(0.935)	212728	20.0000	20.5832
	73 bis(2-Ethylhexyl)phthalate	149	17.251	17.256	(0.987)	289801	20.0000	20.9018
	74 3,3'-Dichlorobenzidine	252	17.343	17.359	(0.992)	91447	20.0000	17.5310

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC907.D
Report Date: 09-Mar-2006 16:06

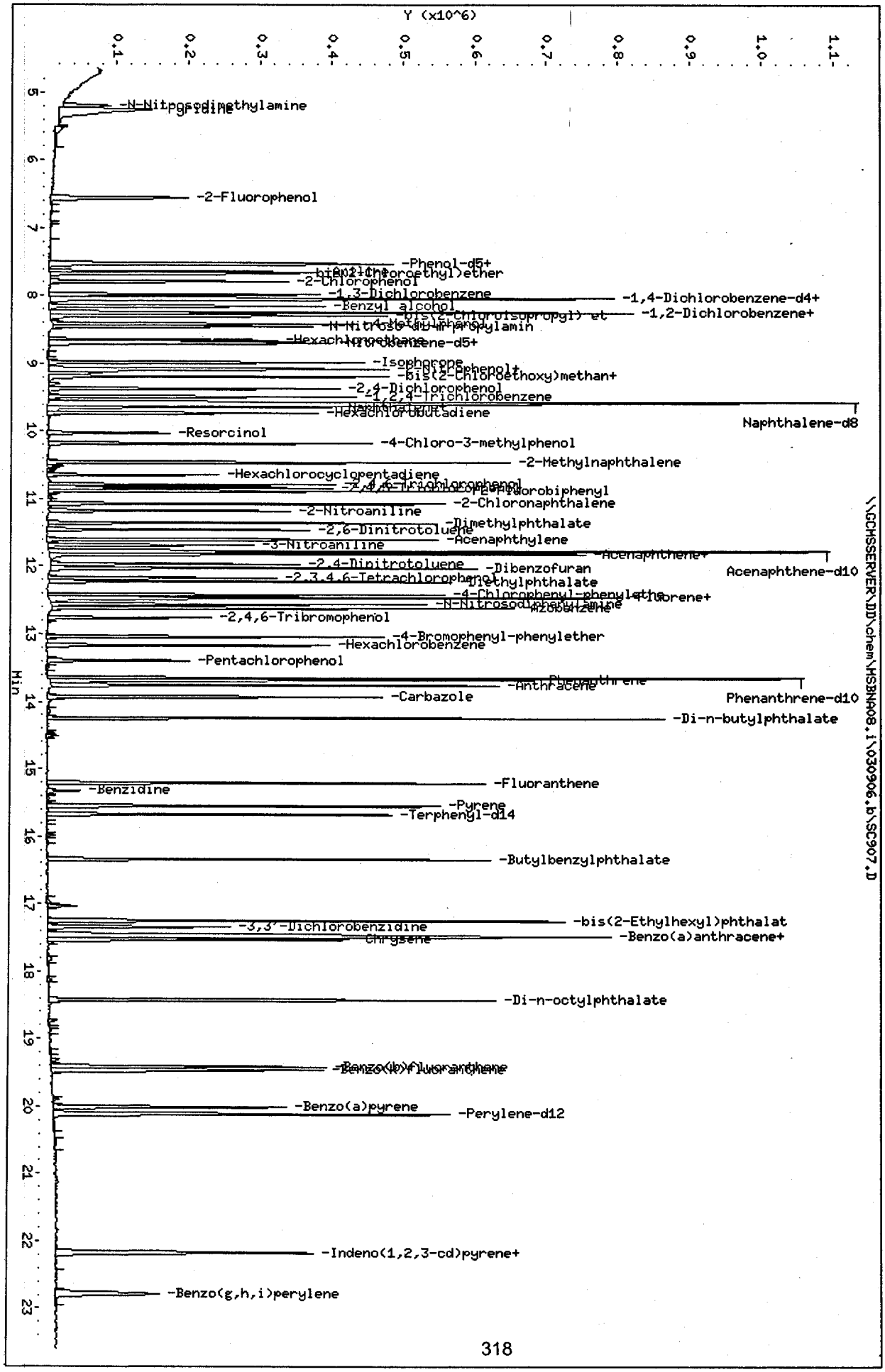
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Benzo(a)anthracene	228	17.456	17.471	(0.998)	320215	20.0000	19.7887
* 76 Chrysene-d12	240	17.486	17.502	(1.000)	397476	40.0000	
77 Chrysene	228	17.537	17.543	(1.003)	258096	20.0000	19.8198
78 Di-n-octylphthalate	149	18.436	18.442	(0.917)	470136	20.0000	18.6803
79 Benzo(b)fluoranthene	252	19.417	19.433	(0.965)	240630	20.0000	17.3217
80 Benzo(k)fluoranthene	252	19.468	19.484	(0.968)	265949	20.0000	20.2406(A)
81 Benzo(a)pyrene	252	20.010	20.026	(0.995)	210107	20.0000	19.1216
* 82 Perylene-d12	264	20.112	20.128	(1.000)	334890	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	22.176	22.192	(1.103)	185304	20.0000	20.0922
84 Dibenz(a,h)anthracene	278	22.166	22.192	(1.102)	150394	20.0000	19.7221
85 Benzo(g,h,i)perylene	276	22.789	22.805	(1.133)	139749	20.0000	20.1163

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC907.D
Date : 09-MAR-2006 12:38
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2581
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA08.i
Operator: BNA
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC908.D
Report Date: 09-Mar-2006 16:06

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC908.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 09-MAR-2006 13:12 MS Autotune Date: 13-JAN-2006 14:49
Operator : BNA Inst ID: MSBNA08.i
Smp Info : ICAL,S2582
Misc Info : 50ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\6PTBNA8.m
Meth Date : 09-Mar-2006 16:06 target Quant Type: ISTD
Cal Date : 09-MAR-2006 13:12 Cal File: SC908.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	74	5.209	5.209	(0.648)	299606	50.0000	49.5966
2 Pyridine	79	5.270	5.270	(0.656)	506633	50.0000	49.5184
$ 3 2-Fluorophenol	112	6.558	6.558	(0.816)	372572	50.0000	49.1964
$ 4 Phenol-d5	99	7.529	7.529	(0.936)	513735	50.0000	50.0469
5 Phenol	94	7.539	7.539	(0.938)	574350	50.0000	50.3596
6 Aniline	66	7.651	7.651	(0.952)	270215	50.0000	50.9557(Q)
7 bis(2-Chloroethyl)ether	63	7.682	7.682	(0.956)	437524	50.0000	52.2351(Q)
8 2-Chlorophenol	128	7.794	7.794	(0.969)	412226	50.0000	48.9906
9 1,3-Dichlorobenzene	146	7.978	7.978	(0.992)	442095	50.0000	49.0201
* 10 1,4-Dichlorobenzene-d4	152	8.039	8.039	(1.000)	215576	40.0000	
11 1,4-Dichlorobenzene	146	8.060	8.060	(1.003)	454268	50.0000	49.7240
12 Benzyl alcohol	108	8.162	8.162	(1.015)	304996	50.0000	49.3379
13 1,2-Dichlorobenzene	146	8.244	8.244	(1.025)	426576	50.0000	50.7598
14 2-Methylphenol	107	8.254	8.254	(1.027)	326869	50.0000	50.7565
15 bis(2-Chloroisopropyl) ether	45	8.295	8.295	(1.032)	1045678	50.0000	52.0447
16 4-Methylphenol	107	8.428	8.428	(1.048)	501564	50.0000	48.9396
17 N-Nitroso-di-n-propylamine	70	8.469	8.469	(1.053)	327437	50.0000	50.4143
18 Hexachloroethane	117	8.653	8.653	(1.076)	206651	50.0000	49.6652
$ 19 Nitrobenzene-d5	82	8.693	8.693	(0.907)	483170	50.0000	50.3714
20 Nitrobenzene	77	8.714	8.714	(0.909)	484038	50.0000	50.0983

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC908.D
Report Date: 09-Mar-2006 16:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	9.000	9.000	(0.939)	932984	50.0000	49.1298
	22 2-Nitrophenol	139	9.102	9.102	(0.950)	220379	50.0000	51.0952
	23 2,4-Dimethylphenol	122	9.082	9.082	(0.948)	339107	50.0000	52.1930
	24 bis(2-Chloroethoxy)methane	93	9.204	9.204	(0.961)	605365	50.0000	50.6221
	25 Benzoic acid	122	9.215	9.215	(0.962)	136192	50.0000	48.8231
	26 2,4-Dichlorophenol	162	9.378	9.378	(0.979)	302850	50.0000	49.1262
	27 1,2,4-Trichlorobenzene	180	9.501	9.501	(0.991)	347724	50.0000	49.4249
*	28 Naphthalene-d8	136	9.582	9.582	(1.000)	806340	40.0000	
	29 Naphthalene	128	9.613	9.613	(1.003)	1185126	50.0000	49.8274
	30 4-Chloroaniline	127	9.644	9.644	(1.006)	501282	50.0000	47.1033
	31 Hexachlorobutadiene	225	9.725	9.725	(1.015)	192570	50.0000	50.4016
	32 Resorcinol	110	10.042	10.042	(1.048)	284925	50.0000	48.9358(A)
	33 4-Chloro-3-methylphenol	107	10.185	10.185	(1.063)	345480	50.0000	50.2141
	34 2-Methylnaphthalene	142	10.461	10.461	(1.092)	746399	50.0000	50.7804
	35 Hexachlorocyclopentadiene	237	10.645	10.645	(0.904)	154762	50.0000	49.7206
	36 2,4,6-Trichlorophenol	196	10.788	10.788	(0.916)	210983	50.0000	49.5656
	37 2,4,5-Trichlorophenol	196	10.839	10.839	(0.920)	225787	50.0000	48.8934
$	38 2-Fluorobiphenyl	172	10.890	10.890	(0.925)	702898	50.0000	51.2712
	39 2-Chloronaphthalene	162	11.074	11.074	(0.940)	680785	50.0000	50.9450
	40 2-Nitroaniline	65	11.187	11.187	(0.950)	273798	50.0000	50.5632
	41 Dimethylphthalate	163	11.370	11.370	(0.965)	775794	50.0000	50.1839
	42 2,6-Dinitrotoluene	165	11.462	11.462	(0.973)	207686	50.0000	49.0567
	43 Acenaphthylene	152	11.616	11.616	(0.986)	1054445	50.0000	49.4305
	44 3-Nitroaniline	138	11.708	11.708	(0.994)	210797	50.0000	48.8968
*	45 Acenaphthene-d10	164	11.779	11.779	(1.000)	443501	40.0000	
	46 Acenaphthene	154	11.830	11.830	(1.004)	665744	50.0000	51.1330
	47 2,4-Dinitrophenol	184	11.820	11.820	(1.003)	58130	50.0000	47.3516(Q)
	48 4-Nitrophenol	109	11.851	11.851	(1.006)	86400	50.0000	48.9839
	49 Dibenzofuran	168	12.035	12.035	(1.022)	938553	50.0000	50.3281
	50 2,4-Dinitrotoluene	165	11.984	11.984	(1.017)	254214	50.0000	49.3149
	51 2,3,4,6-Tetrachlorophenol	232	12.178	12.178	(1.034)	167767	50.0000	48.8243(A)
	52 Diethylphthalate	149	12.229	12.229	(1.038)	809658	50.0000	50.7448
	53 4-Chlorophenyl-phenylether	204	12.423	12.423	(1.055)	360757	50.0000	51.0540
	54 Fluorene	166	12.474	12.474	(1.059)	757228	50.0000	50.4565
	55 4-Nitroaniline	138	12.484	12.484	(1.060)	210040	50.0000	49.6944
	56 4,6-Dinitro-2-methylphenol	198	12.505	12.505	(0.915)	96984	50.0000	48.1298
	57 N-Nitrosodiphenylamine	169	12.576	12.576	(0.921)	460106	50.0000	48.8248
	58 Azobenzene	77	12.627	12.627	(0.924)	1011495	50.0000	51.8209
$	59 2,4,6-Tribromophenol	330	12.781	12.781	(1.085)	101163	50.0000	48.9036
	60 4-Bromophenyl-phenylether	248	13.046	13.046	(0.955)	211088	50.0000	49.6891
	61 Hexachlorobenzene	284	13.179	13.179	(0.965)	235491	50.0000	50.5201
	62 Pentachlorophenol	266	13.404	13.404	(0.981)	103708	50.0000	48.1515
*	63 Phenanthrene-d10	188	13.659	13.659	(1.000)	659345	40.0000	
	64 Phenanthrene	178	13.700	13.700	(1.003)	1037880	50.0000	50.0787
	65 Anthracene	178	13.761	13.761	(1.007)	1019597	50.0000	50.0056
	66 Carbazole	167	13.935	13.935	(1.020)	891716	50.0000	49.2928
	67 Di-n-butylphthalate	149	14.252	14.252	(1.043)	1450294	50.0000	51.8217
	68 Fluoranthene	202	15.223	15.223	(1.114)	1015604	50.0000	49.9266
	69 Benzidine	184	15.335	15.335	(0.876)	146063	50.0000	60.3601
	70 Pyrene	202	15.560	15.560	(0.889)	1032747	50.0000	49.0781
$	71 Terphenyl-d14	244	15.682	15.682	(0.896)	748158	50.0000	50.5765
	72 Butylbenzylphthalate	149	16.347	16.347	(0.934)	596890	50.0000	48.9330
	73 bis(2-Ethylhexyl)phthalate	149	17.256	17.256	(0.986)	819443	50.0000	50.0752
	74 3,3'-Dichlorobenzidine	252	17.358	17.358	(0.992)	307246	50.0000	49.9049

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC908.D
Report Date: 09-Mar-2006 16:06

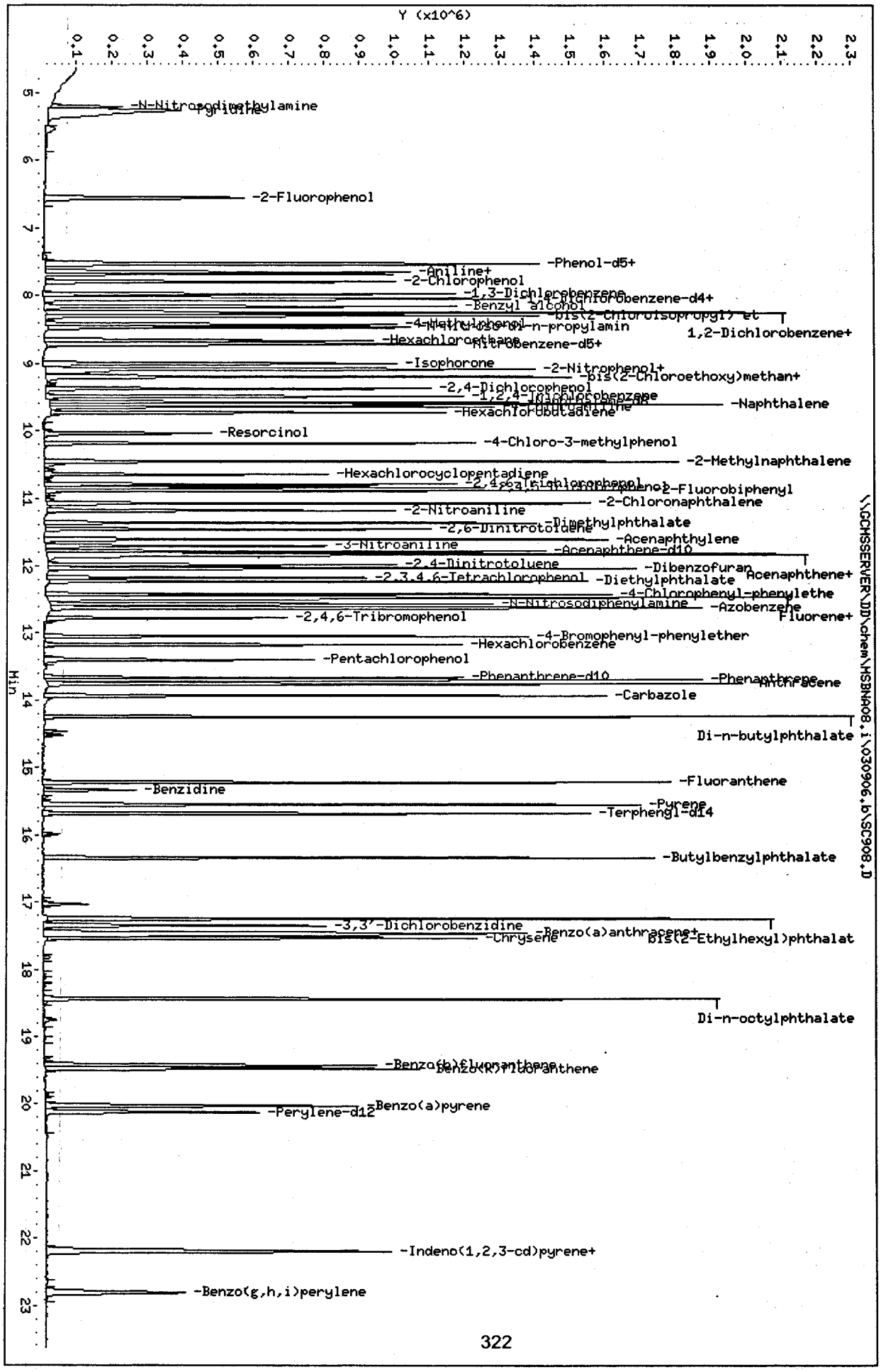
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Benzo(a)anthracene	228	17.471	17.471	(0.998)	938161	50.0000	49.1217
* 76 Chrysene-d12	240	17.501	17.501	(1.000)	469128	40.0000	
77 Chrysene	228	17.542	17.542	(1.002)	741059	50.0000	48.2161
78 Di-n-octylphthalate	149	18.441	18.441	(0.916)	1339184	50.0000	47.4642
79 Benzo(b)fluoranthene	252	19.432	19.432	(0.965)	696962	50.0000	44.7524
80 Benzo(k)fluoranthene	252	19.483	19.483	(0.968)	738506	50.0000	50.1356(A)
81 Benzo(a)pyrene	252	20.025	20.025	(0.995)	601873	50.0000	48.8603
* 82 Perylene-d12	264	20.127	20.127	(1.000)	375436	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	22.191	22.191	(1.103)	524252	50.0000	50.7049
84 Dibenz(a,h)anthracene	278	22.191	22.191	(1.103)	439651	50.0000	51.4277
85 Benzo(g,h,i)perylene	276	22.804	22.804	(1.133)	385980	50.0000	49.5601

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC908.D
Date : 09-MAR-2006 13:12
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2582
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA08.i
Operator: BNA
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC909.D
Report Date: 09-Mar-2006 16:06

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC909.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 09-MAR-2006 13:47 MS Autotune Date: 13-JAN-2006 14:49
Operator : BNA Inst ID: MSBNA08.i
Smp Info : ICAL,S2583
Misc Info : 80ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\6PTBNA8.m
Meth Date : 09-Mar-2006 16:06 target Quant Type: ISTD
Cal Date : 09-MAR-2006 13:47 Cal File: SC909.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	74	5.214	5.209	(0.649)	419649	80.0000	79.0339(Q)
2 Pyridine	79	5.265	5.270	(0.655)	722266	80.0000	80.3149(Q)
$ 3 2-Fluorophenol	112	6.563	6.558	(0.817)	528628	80.0000	79.4144(Q)
$ 4 Phenol-d5	99	7.533	7.529	(0.938)	719966	80.0000	79.7951
5 Phenol	94	7.554	7.539	(0.940)	804008	80.0000	80.2032(Q)
6 Aniline	66	7.656	7.651	(0.953)	368283	80.0000	79.0116(Q)
7 bis(2-Chloroethyl)ether	63	7.676	7.682	(0.955)	603288	80.0000	81.9429(Q)
8 2-Chlorophenol	128	7.799	7.794	(0.971)	585395	80.0000	79.1502(Q)
9 1,3-Dichlorobenzene	146	7.983	7.978	(0.994)	635528	80.0000	80.1713(Q)
* 10 1,4-Dichlorobenzene-d4	152	8.034	8.039	(1.000)	189485	40.0000	(Q)
11 1,4-Dichlorobenzene	146	8.054	8.060	(1.003)	645780	80.0000	80.4201(Q)
12 Benzyl alcohol	108	8.167	8.162	(1.017)	432601	80.0000	79.6158(Q)
13 1,2-Dichlorobenzene	146	8.248	8.244	(1.027)	600911	80.0000	81.3503(Q)
14 2-Methylphenol	107	8.259	8.254	(1.028)	455383	80.0000	80.4489(Q)
15 bis(2-Chloroisopropyl) ether	45	8.300	8.295	(1.033)	1445028	80.0000	81.8239
16 4-Methylphenol	107	8.443	8.428	(1.051)	718082	80.0000	79.7139(Q)
17 N-Nitroso-di-n-propylamine	70	8.483	8.469	(1.056)	461072	80.0000	80.7645(Q)
18 Hexachloroethane	117	8.657	8.653	(1.078)	294578	80.0000	80.5454(Q)
$ 19 Nitrobenzene-d5	82	8.698	8.693	(0.907)	676451	80.0000	78.6614(Q)
20 Nitrobenzene	77	8.719	8.714	(0.909)	690521	80.0000	79.7191(Q)

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC909.D
Report Date: 09-Mar-2006 16:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	9.015	9.000	(0.940)	1343685	80.0000	78.9241
	22 2-Nitrophenol	139	9.107	9.102	(0.950)	318589	80.0000	82.3914(Q)
	23 2,4-Dimethylphenol	122	9.086	9.082	(0.948)	468244	80.0000	80.3876(Q)
	24 bis(2-Chloroethoxy)methane	93	9.209	9.204	(0.961)	849412	80.0000	79.2288(Q)
	25 Benzoic acid	122	9.250	9.215	(0.965)	223637	80.0000	76.2374(Q)
	26 2,4-Dichlorophenol	162	9.383	9.378	(0.979)	431690	80.0000	78.1086(Q)
	27 1,2,4-Trichlorobenzene	180	9.495	9.501	(0.990)	504898	80.0000	80.0490(Q)
*	28 Naphthalene-d8	136	9.587	9.582	(1.000)	722898	40.0000	
	29 Naphthalene	128	9.618	9.613	(1.003)	1719545	80.0000	80.6414
	30 4-Chloroaniline	127	9.648	9.644	(1.006)	710546	80.0000	74.4737(Q)
	31 Hexachlorobutadiene	225	9.730	9.725	(1.015)	279504	80.0000	81.5990(Q)
	32 Resorcinol	110	10.047	10.042	(1.048)	423570	80.0000	81.1451(A)
	33 4-Chloro-3-methylphenol	107	10.190	10.185	(1.063)	484743	80.0000	78.5879(Q)
	34 2-Methylnaphthalene	142	10.466	10.461	(1.092)	1053991	80.0000	79.9840(Q)
	35 Hexachlorocyclopentadiene	237	10.650	10.645	(0.904)	227408	80.0000	83.9671(Q)
	36 2,4,6-Trichlorophenol	196	10.793	10.788	(0.916)	302556	80.0000	81.6901(Q)
	37 2,4,5-Trichlorophenol	196	10.844	10.839	(0.920)	330502	80.0000	82.2540(Q)
$	38 2-Fluorobiphenyl	172	10.895	10.890	(0.925)	990629	80.0000	83.0469(Q)
	39 2-Chloronaphthalene	162	11.079	11.074	(0.940)	963463	80.0000	82.8625(Q)
	40 2-Nitroaniline	65	11.191	11.187	(0.950)	382513	80.0000	81.1861(Q)
	41 Dimethylphthalate	163	11.375	11.370	(0.965)	1086817	80.0000	80.7989
	42 2,6-Dinitrotoluene	165	11.477	11.462	(0.974)	296685	80.0000	80.5412(Q)
	43 Acenaphthylene	152	11.620	11.616	(0.986)	1482609	80.0000	79.8783
	44 3-Nitroaniline	138	11.712	11.708	(0.994)	305627	80.0000	81.4777(Q)
*	45 Acenaphthene-d10	164	11.784	11.779	(1.000)	385890	40.0000	(Q)
	46 Acenaphthene	154	11.835	11.830	(1.004)	930288	80.0000	82.1187(Q)
	47 2,4-Dinitrophenol	184	11.835	11.820	(1.004)	98723	80.0000	77.6370(Q)
	48 4-Nitrophenol	109	11.866	11.851	(1.007)	122166	80.0000	79.6014(Q)
	49 Dibenzofuran	168	12.039	12.035	(1.022)	1336984	80.0000	82.3966(Q)
	50 2,4-Dinitrotoluene	165	11.988	11.984	(1.017)	365404	80.0000	81.4672(Q)
	51 2,3,4,6-Tetrachlorophenol	232	12.182	12.178	(1.034)	250001	80.0000	83.6186(AQ)
	52 Diethylphthalate	149	12.244	12.229	(1.039)	1138631	80.0000	82.0171
	53 4-Chlorophenyl-phenylether	204	12.428	12.423	(1.055)	509289	80.0000	82.8343(Q)
	54 Fluorene	166	12.479	12.474	(1.059)	1058850	80.0000	81.0879(Q)
	55 4-Nitroaniline	138	12.499	12.484	(1.061)	302109	80.0000	82.1486(Q)
	56 4,6-Dinitro-2-methylphenol	198	12.509	12.505	(0.916)	156539	80.0000	78.0609(Q)
	57 N-Nitrosodiphenylamine	169	12.581	12.576	(0.921)	647985	80.0000	80.7247(Q)
	58 Azobenzene	77	12.632	12.627	(0.924)	1371415	80.0000	82.4838
$	59 2,4,6-Tribromophenol	330	12.785	12.781	(1.085)	149479	80.0000	83.0482(Q)
	60 4-Bromophenyl-phenylether	248	13.051	13.046	(0.955)	298346	80.0000	82.4473(Q)
	61 Hexachlorobenzene	284	13.184	13.179	(0.965)	328953	80.0000	82.8480(Q)
	62 Pentachlorophenol	266	13.409	13.404	(0.981)	163896	80.0000	76.6759(Q)
*	63 Phenanthrene-d10	188	13.664	13.659	(1.000)	561635	40.0000	
	64 Phenanthrene	178	13.705	13.700	(1.003)	1436127	80.0000	81.3500
	65 Anthracene	178	13.766	13.761	(1.007)	1410500	80.0000	81.2123
	66 Carbazole	167	13.940	13.935	(1.020)	1275995	80.0000	82.8065
	67 Di-n-butylphthalate	149	14.257	14.252	(1.043)	1949604	80.0000	81.7825
	68 Fluoranthene	202	15.227	15.223	(1.114)	1417999	80.0000	81.8356
	69 Benzidine	184	15.340	15.335	(0.877)	169348	80.0000	83.7050
	70 Pyrene	202	15.564	15.560	(0.890)	1419717	80.0000	80.6971
$	71 Terphenyl-d14	244	15.687	15.682	(0.897)	1023475	80.0000	82.7550
	72 Butylbenzylphthalate	149	16.351	16.347	(0.935)	816711	80.0000	80.0826(Q)
	73 bis(2-Ethylhexyl)phthalate	149	17.261	17.256	(0.987)	1111927	80.0000	81.2721(Q)
	74 3,3'-Dichlorobenzidine	252	17.363	17.358	(0.992)	429657	80.0000	83.4719(Q)

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC909.D
Report Date: 09-Mar-2006 16:06

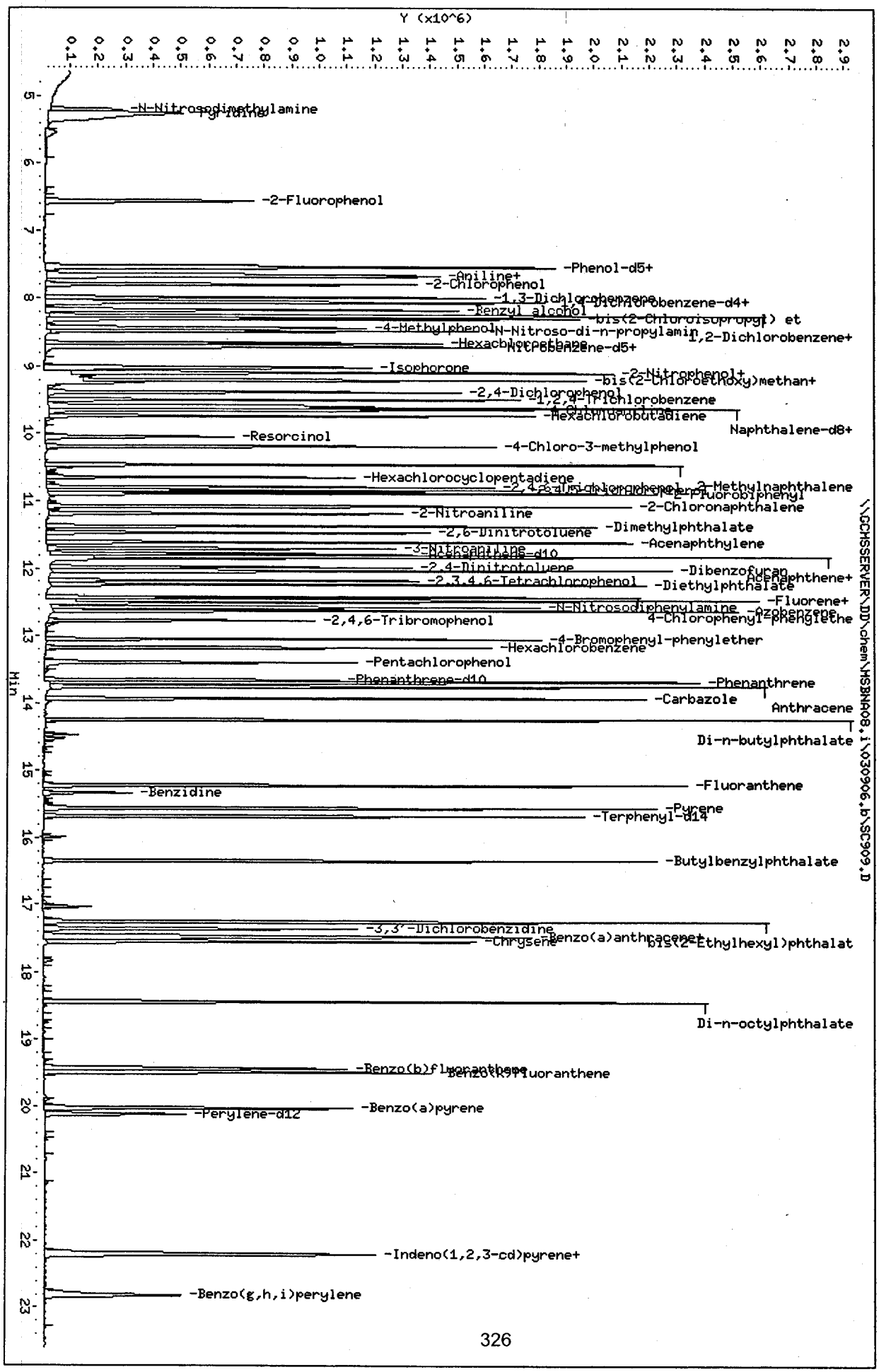
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Benzo(a)anthracene	228	17.475	17.471	(0.999)	1275122	80.0000	79.8564
* 76 Chrysene-d12	240	17.496	17.501	(1.000)	392220	40.0000	
77 Chrysene	228	17.557	17.542	(1.004)	1017918	80.0000	79.2161
78 Di-n-octylphthalate	149	18.446	18.441	(0.917)	1807187	80.0000	79.8339
79 Benzo(b)fluoranthene	252	19.437	19.432	(0.966)	1033023	80.0000	82.6752
80 Benzo(k)fluoranthene	252	19.488	19.483	(0.969)	916851	80.0000	77.5799(A)
81 Benzo(a)pyrene	252	20.030	20.025	(0.995)	805240	80.0000	81.4769
* 82 Perylene-d12	264	20.122	20.127	(1.000)	301216	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	22.206	22.191	(1.104)	688405	80.0000	82.9873(Q)
84 Dibenz(a,h)anthracene	278	22.206	22.191	(1.104)	581306	80.0000	84.7524
85 Benzo(g,h,i)perylene	276	22.819	22.804	(1.134)	504895	80.0000	80.8028(Q)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC909.D
Date : 09-MAR-2006 13:47
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2583
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA08.i
Operator: BNA
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC910.D
Report Date: 09-Mar-2006 16:07

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC910.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 09-MAR-2006 14:22 MS Autotune Date: 13-JAN-2006 14:49
Operator : BNA Inst ID: MSBNA08.i
Smp Info : ICAL,S2584
Misc Info : 100ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\6PTBNA8.m
Meth Date : 09-Mar-2006 16:06 target Quant Type: ISTD
Cal Date : 09-MAR-2006 14:22 Cal File: SC910.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 N-Nitrosodimethylamine	74	5.211	5.209	(0.648)	544436	100.000	101.1218
	2 Pyridine	79	5.272	5.270	(0.656)	922381	100.000	101.1533
$	3 2-Fluorophenol	112	6.559	6.558	(0.816)	681520	100.000	100.9714
$	4 Phenol-d5	99	7.540	7.529	(0.938)	921483	100.000	100.7215
	5 Phenol	94	7.550	7.539	(0.939)	1022968	100.000	100.6384
	6 Aniline	66	7.663	7.651	(0.953)	482446	100.000	102.0771
	7 bis(2-Chloroethyl)ether	63	7.683	7.682	(0.956)	753507	100.000	100.9356
	8 2-Chlorophenol	128	7.806	7.794	(0.971)	759216	100.000	101.2370
	9 1,3-Dichlorobenzene	146	7.980	7.978	(0.992)	825005	100.000	102.6388
*	10 1,4-Dichlorobenzene-d4	152	8.041	8.039	(1.000)	192134	40.0000	
	11 1,4-Dichlorobenzene	146	8.061	8.060	(1.003)	837189	100.000	102.8192
	12 Benzyl alcohol	108	8.174	8.162	(1.017)	550183	100.000	99.8596
	13 1,2-Dichlorobenzene	146	8.245	8.244	(1.025)	765042	100.000	102.1421
	14 2-Methylphenol	107	8.266	8.254	(1.028)	571280	100.000	99.5321
	15 bis(2-Chloroisopropyl) ether	45	8.307	8.295	(1.033)	1779796	100.000	99.3905
	16 4-Methylphenol	107	8.429	8.428	(1.048)	931200	100.000	101.9468
	17 N-Nitroso-di-n-propylamine	70	8.491	8.469	(1.056)	579639	100.000	100.1336
	18 Hexachloroethane	117	8.654	8.653	(1.076)	380644	100.000	102.6432
$	19 Nitrobenzene-d5	82	8.705	8.693	(0.907)	855038	100.000	101.7271
	20 Nitrobenzene	77	8.726	8.714	(0.909)	871802	100.000	102.9743

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC910.D
Report Date: 09-Mar-2006 16:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	9.032	9.000	(0.941)	1728218	100.000	103.8571
	22 2-Nitrophenol	139	9.104	9.102	(0.949)	405934	100.000	107.4069
	23 2,4-Dimethylphenol	122	9.093	9.082	(0.948)	605796	100.000	106.4066
	24 bis(2-Chloroethoxy)methane	93	9.206	9.204	(0.960)	1075466	100.000	102.6329
	25 Benzoic acid	122	9.277	9.215	(0.967)	319861	100.000	101.3292(M)
	26 2,4-Dichlorophenol	162	9.390	9.378	(0.979)	567219	100.000	105.0034
	27 1,2,4-Trichlorobenzene	180	9.502	9.501	(0.990)	658520	100.000	106.8186
*	28 Naphthalene-d8	136	9.594	9.582	(1.000)	706564	40.0000	
	29 Naphthalene	128	9.614	9.613	(1.002)	2190388	100.000	105.0972
	30 4-Chloroaniline	127	9.655	9.644	(1.006)	1008094	100.000	108.1029
	31 Hexachlorobutadiene	225	9.737	9.725	(1.015)	355727	100.000	106.2525
	32 Resorcinol	110	10.054	10.042	(1.048)	531742	100.000	104.2231(A)
	33 4-Chloro-3-methylphenol	107	10.197	10.185	(1.063)	616282	100.000	102.2231
	34 2-Methylnaphthalene	142	10.463	10.461	(1.091)	1314101	100.000	102.0283
	35 Hexachlorocyclopentadiene	237	10.646	10.645	(0.903)	299389	100.000	111.1025
	36 2,4,6-Trichlorophenol	196	10.800	10.788	(0.916)	390548	100.000	105.9797
	37 2,4,5-Trichlorophenol	196	10.851	10.839	(0.920)	431461	100.000	107.9217
$	38 2-Fluorobiphenyl	172	10.892	10.890	(0.924)	1245519	100.000	104.9414
	39 2-Chloronaphthalene	162	11.086	11.074	(0.940)	1212417	100.000	104.7996
	40 2-Nitroaniline	65	11.198	11.187	(0.950)	487898	100.000	104.0756
	41 Dimethylphthalate	163	11.382	11.370	(0.965)	1363014	100.000	101.8436
	42 2,6-Dinitrotoluene	165	11.474	11.462	(0.973)	383858	100.000	104.7316
	43 Acenaphthylene	152	11.617	11.616	(0.985)	1867955	100.000	101.1470
	44 3-Nitroaniline	138	11.719	11.708	(0.994)	393614	100.000	105.4635
*	45 Acenaphthene-d10	164	11.791	11.779	(1.000)	383954	40.0000	
	46 Acenaphthene	154	11.832	11.830	(1.003)	1137682	100.000	100.9323
	47 2,4-Dinitrophenol	184	11.842	11.820	(1.004)	138799	100.000	100.8084
	48 4-Nitrophenol	109	11.873	11.851	(1.007)	159307	100.000	104.3253
	49 Dibenzofuran	168	12.046	12.035	(1.022)	1676915	100.000	103.8673
	50 2,4-Dinitrotoluene	165	11.995	11.984	(1.017)	464539	100.000	104.0917
	51 2,3,4,6-Tetrachlorophenol	232	12.179	12.178	(1.033)	328811	100.000	110.5329(A)
	52 Diethylphthalate	149	12.251	12.229	(1.039)	1427528	100.000	103.3452
	53 4-Chlorophenyl-phenylether	204	12.435	12.423	(1.055)	646093	100.000	105.6150
	54 Fluorene	166	12.475	12.474	(1.058)	1317593	100.000	101.4116
	55 4-Nitroaniline	138	12.506	12.484	(1.061)	385792	100.000	105.4325
	56 4,6-Dinitro-2-methylphenol	198	12.516	12.505	(0.916)	212699	100.000	100.4474
	57 N-Nitrosodiphenylamine	169	12.578	12.576	(0.920)	836498	100.000	105.8403
	58 Azobenzene	77	12.639	12.627	(0.925)	1670740	100.000	102.0595
$	59 2,4,6-Tribromophenol	330	12.782	12.781	(1.084)	197078	100.000	110.0456
	60 4-Bromophenyl-phenylether	248	13.058	13.046	(0.955)	381677	100.000	107.1265
	61 Hexachlorobenzene	284	13.181	13.179	(0.964)	416405	100.000	106.5146
	62 Pentachlorophenol	266	13.416	13.404	(0.981)	215282	100.000	97.3473
*	63 Phenanthrene-d10	188	13.671	13.659	(1.000)	552980	40.0000	
	64 Phenanthrene	178	13.702	13.700	(1.002)	1794583	100.000	103.2460
	65 Anthracene	178	13.773	13.761	(1.007)	1775704	100.000	103.8399
	66 Carbazole	167	13.947	13.935	(1.020)	1647324	100.000	108.5774
	67 Di-n-butylphthalate	149	14.264	14.252	(1.043)	2421371	100.000	103.1621
	68 Fluoranthene	202	15.234	15.223	(1.114)	1747878	100.000	102.4524
	69 Benzidine	184	15.347	15.335	(0.877)	240700	100.000	124.2187
	70 Pyrene	202	15.572	15.560	(0.890)	1775652	100.000	105.3788
$	71 Terphenyl-d14	244	15.684	15.682	(0.896)	1256354	100.000	106.0642
	72 Butylbenzylphthalate	149	16.358	16.347	(0.935)	1007659	100.000	103.1627
	73 bis(2-Ethylhexyl)phthalate	149	17.257	17.256	(0.986)	1362944	100.000	104.0119
	74 3,3'-Dichlorobenzidine	252	17.370	17.358	(0.992)	538287	100.000	109.1872

3/10/06

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC910.D
Report Date: 09-Mar-2006 16:07

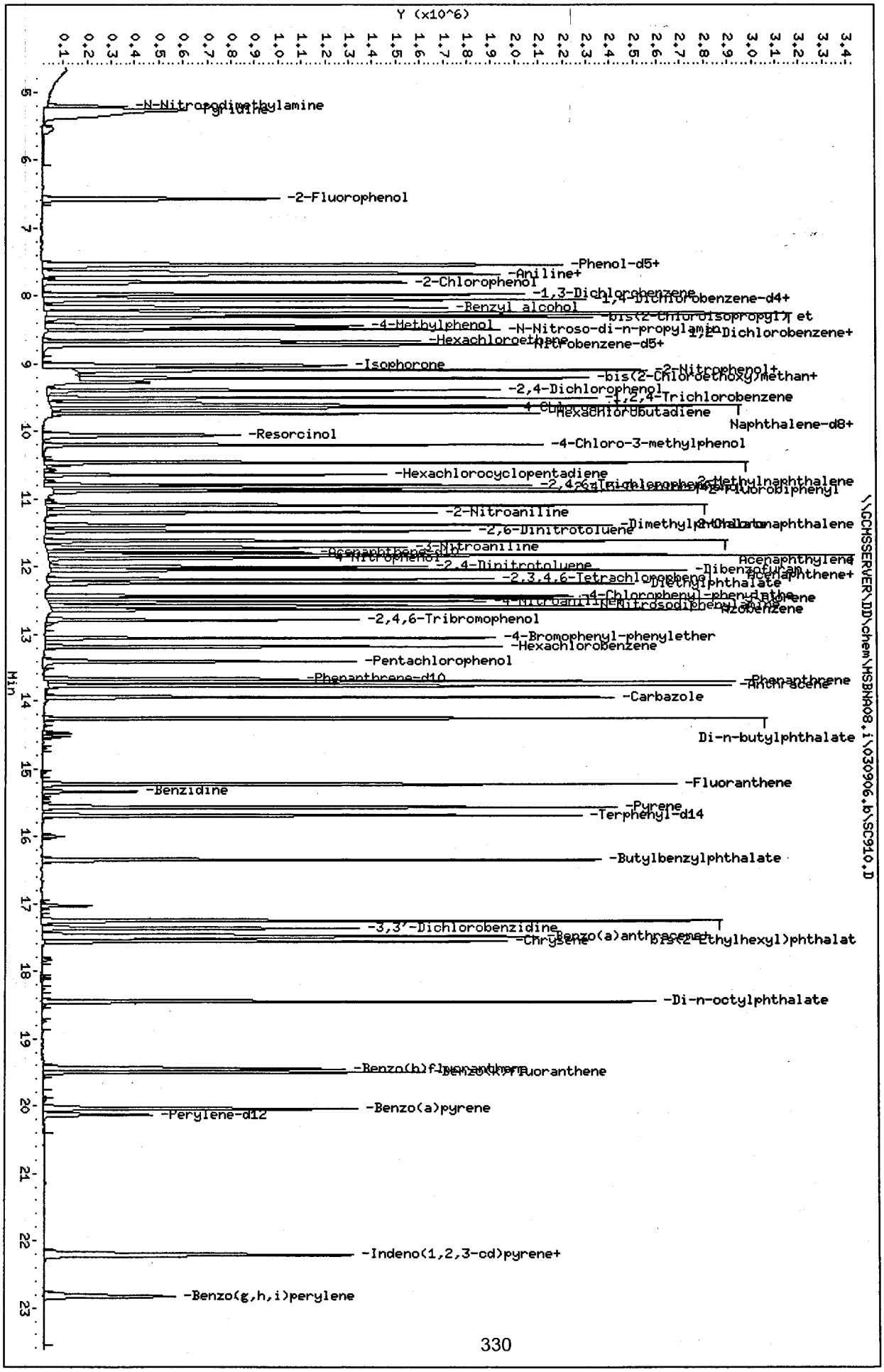
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Benzo(a)anthracene	228	17.482	17.471	(0.999)	1559682	100.000	101.9844
* 76 Chrysene-d12	240	17.503	17.501	(1.000)	375656	40.0000	
77 Chrysene	228	17.554	17.542	(1.003)	1265362	100.000	102.8146
78 Di-n-octylphthalate	149	18.443	18.441	(0.916)	2195435	100.000	106.4227
79 Benzo(b)fluoranthene	252	19.444	19.432	(0.966)	1137214	100.000	99.8704
80 Benzo(k)fluoranthene	252	19.495	19.483	(0.969)	1235234	100.000	114.6909(A)
81 Benzo(a)pyrene	252	20.037	20.025	(0.995)	962453	100.000	106.8607
* 82 Perylene-d12	264	20.129	20.127	(1.000)	274504	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	22.213	22.191	(1.104)	788427	100.000	104.2938
84 Dibenz(a,h)anthracene	278	22.203	22.191	(1.103)	668507	100.000	106.9505
85 Benzo(g,h,i)perylene	276	22.826	22.804	(1.134)	567753	100.000	99.7043

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\GCHSSERVER\DD\chem\MSBNA08.i\030906.b\SC910.D
Date : 09-MAR-2006 14:22
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2584
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA08.i
Operator: BNA
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC911.D
Report Date: 09-Mar-2006 16:07

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC911.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 09-MAR-2006 14:57 MS Autotune Date: 13-JAN-2006 14:49
Operator : BNA Inst ID: MSBNA08.i
Smp Info : ICAL,S2585
Misc Info : 120ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\6PTBNA8.m
Meth Date : 09-Mar-2006 16:07 target Quant Type: ISTD
Cal Date : 09-MAR-2006 14:57 Cal File: SC911.D
Als bottle: 10 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	74	5.219	5.209	(0.649)	802722	120.000	118.7832
2 Pyridine	79	5.270	5.270	(0.656)	1365307	120.000	119.2866
$ 3 2-Fluorophenol	112	6.568	6.558	(0.817)	1004398	120.000	118.5544
$ 4 Phenol-d5	99	7.549	7.529	(0.939)	1347067	120.000	117.3048
5 Phenol	94	7.569	7.539	(0.942)	1476329	120.000	115.7115
6 Aniline	66	7.671	7.651	(0.954)	685005	120.000	115.4690
7 bis(2-Chloroethyl)ether	63	7.692	7.682	(0.957)	1000276	120.000	106.7502
8 2-Chlorophenol	128	7.804	7.794	(0.971)	1135089	120.000	120.5856
9 1,3-Dichlorobenzene	146	7.988	7.978	(0.994)	1190911	120.000	118.0391
* 10 1,4-Dichlorobenzene-d4	152	8.039	8.039	(1.000)	241164	40.0000	
11 1,4-Dichlorobenzene	146	8.060	8.060	(1.003)	1195505	120.000	116.9752
12 Benzyl alcohol	108	8.193	8.162	(1.019)	834849	120.000	120.7209
13 1,2-Dichlorobenzene	146	8.254	8.244	(1.027)	1041612	120.000	110.7943
14 2-Methylphenol	107	8.274	8.254	(1.029)	788762	120.000	109.4843
15 bis(2-Chloroisopropyl) ether	45	8.305	8.295	(1.033)	2338123	120.000	104.0241
16 4-Methylphenol	107	8.438	8.428	(1.050)	1389165	120.000	121.1647
17 N-Nitroso-di-n-propylamine	70	8.499	8.469	(1.057)	833272	120.000	114.6835
18 Hexachloroethane	117	8.663	8.653	(1.078)	546530	120.000	117.4132
$ 19 Nitrobenzene-d5	82	8.703	8.693	(0.907)	1265747	120.000	117.5419
20 Nitrobenzene	77	8.734	8.714	(0.911)	1251509	120.000	115.3823

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC911.D
Report Date: 09-Mar-2006 16:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
21 Isophorone	82	9.051	9.000	(0.944)	2528617	120.000	118.6084
22 2-Nitrophenol	139	9.112	9.102	(0.950)	557563	120.000	115.1504
23 2,4-Dimethylphenol	122	9.102	9.082	(0.949)	812237	120.000	111.3575
24 bis(2-Chloroethoxy)methane	93	9.214	9.204	(0.961)	1505559	120.000	112.1456
25 Benzoic acid	122	9.317	9.215	(0.971)	535146	120.000	122.8031(QM)
26 2,4-Dichlorophenol	162	9.398	9.378	(0.980)	862484	120.000	124.6230
27 1,2,4-Trichlorobenzene	180	9.511	9.501	(0.991)	946805	120.000	119.8762
* 28 Naphthalene-d8	136	9.592	9.582	(1.000)	905226	40.0000	
29 Naphthalene	128	9.623	9.613	(1.003)	2919731	120.000	109.3472(Q)
30 4-Chloroaniline	127	9.654	9.644	(1.006)	1473953	120.000	123.3714(M)
31 Hexachlorobutadiene	225	9.735	9.725	(1.015)	509260	120.000	118.7289
32 Resorcinol	110	10.073	10.042	(1.050)	831049	120.000	127.1405(A)
33 4-Chloro-3-methylphenol	107	10.205	10.185	(1.064)	908819	120.000	117.6635
34 2-Methylnaphthalene	142	10.471	10.461	(1.092)	1782905	120.000	108.0475
35 Hexachlorocyclopentadiene	237	10.655	10.645	(0.904)	447957	120.000	130.4874
36 2,4,6-Trichlorophenol	196	10.808	10.788	(0.917)	591477	120.000	125.9884
37 2,4,5-Trichlorophenol	196	10.859	10.839	(0.921)	656591	120.000	128.9159
$ 38 2-Fluorobiphenyl	172	10.900	10.890	(0.925)	1733701	120.000	114.6608
39 2-Chloronaphthalene	162	11.094	11.074	(0.941)	1678818	120.000	113.9083
40 2-Nitroaniline	65	11.207	11.187	(0.951)	716171	120.000	119.9171
41 Dimethylphthalate	163	11.401	11.370	(0.967)	1990296	120.000	116.7335
42 2,6-Dinitrotoluene	165	11.493	11.462	(0.975)	587430	120.000	125.8078
43 Acenaphthylene	152	11.626	11.616	(0.986)	2611847	120.000	111.0142
44 3-Nitroaniline	138	11.738	11.708	(0.996)	613816	120.000	129.0964
* 45 Acenaphthene-d10	164	11.789	11.779	(1.000)	489142	40.0000	
46 Acenaphthene	154	11.840	11.830	(1.004)	1580087	120.000	110.0359
47 2,4-Dinitrophenol	184	11.851	11.820	(1.005)	233592	120.000	123.6381(Q)
48 4-Nitrophenol	109	11.891	11.851	(1.009)	249553	120.000	128.2809
49 Dibenzofuran	168	12.055	12.035	(1.023)	2363885	120.000	114.9313
50 2,4-Dinitrotoluene	165	12.014	11.984	(1.019)	725411	120.000	127.5917
51 2,3,4,6-Tetrachlorophenol	232	12.188	12.178	(1.034)	511324	120.000	134.9229(A)
52 Diethylphthalate	149	12.259	12.229	(1.040)	1939906	120.000	110.2378
53 4-Chlorophenyl-phenylether	204	12.433	12.423	(1.055)	890811	120.000	114.3037
54 Fluorene	166	12.484	12.474	(1.059)	1843281	120.000	111.3633
55 4-Nitroaniline	138	12.535	12.484	(1.063)	595522	120.000	127.7507
56 4,6-Dinitro-2-methylphenol	198	12.535	12.505	(0.916)	356199	120.000	122.7588
57 N-Nitrosodiphenylamine	169	12.596	12.576	(0.921)	1225642	120.000	119.9335
58 Azobenzene	77	12.648	12.627	(0.925)	2218964	120.000	104.8300
$ 59 2,4,6-Tribromophenol	330	12.791	12.781	(1.085)	304192	120.000	133.3297
60 4-Bromophenyl-phenylether	248	13.056	13.046	(0.954)	554810	120.000	120.4304
61 Hexachlorobenzene	284	13.189	13.179	(0.964)	595505	120.000	117.8065
62 Pentachlorophenol	266	13.414	13.404	(0.981)	356278	120.000	120.4508
* 63 Phenanthrene-d10	188	13.680	13.659	(1.000)	715021	40.0000	
64 Phenanthrene	178	13.710	13.700	(1.002)	2511249	120.000	111.7352
65 Anthracene	178	13.782	13.761	(1.007)	2431362	120.000	109.9598
66 Carbazole	167	13.955	13.935	(1.020)	2383643	120.000	121.5045
67 Di-n-butylphthalate	149	14.262	14.252	(1.043)	3272072	120.000	107.8133
68 Fluoranthene	202	15.243	15.223	(1.114)	2448701	120.000	111.0037
69 Benzidine	184	15.345	15.335	(0.876)	315410	120.000	129.5984
70 Pyrene	202	15.570	15.560	(0.889)	2529616	120.000	119.5262
$ 71 Terphenyl-d14	244	15.692	15.682	(0.896)	1733357	120.000	116.5085
72 Butylbenzylphthalate	149	16.357	16.347	(0.934)	1436715	120.000	117.1097
73 bis(2-Ethylhexyl)phthalate	149	17.266	17.256	(0.986)	1857936	120.000	112.8883
74 3,3'-Dichlorobenzidine	252	17.378	17.358	(0.992)	789598	120.000	127.5196

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC911.D
Report Date: 09-Mar-2006 16:07

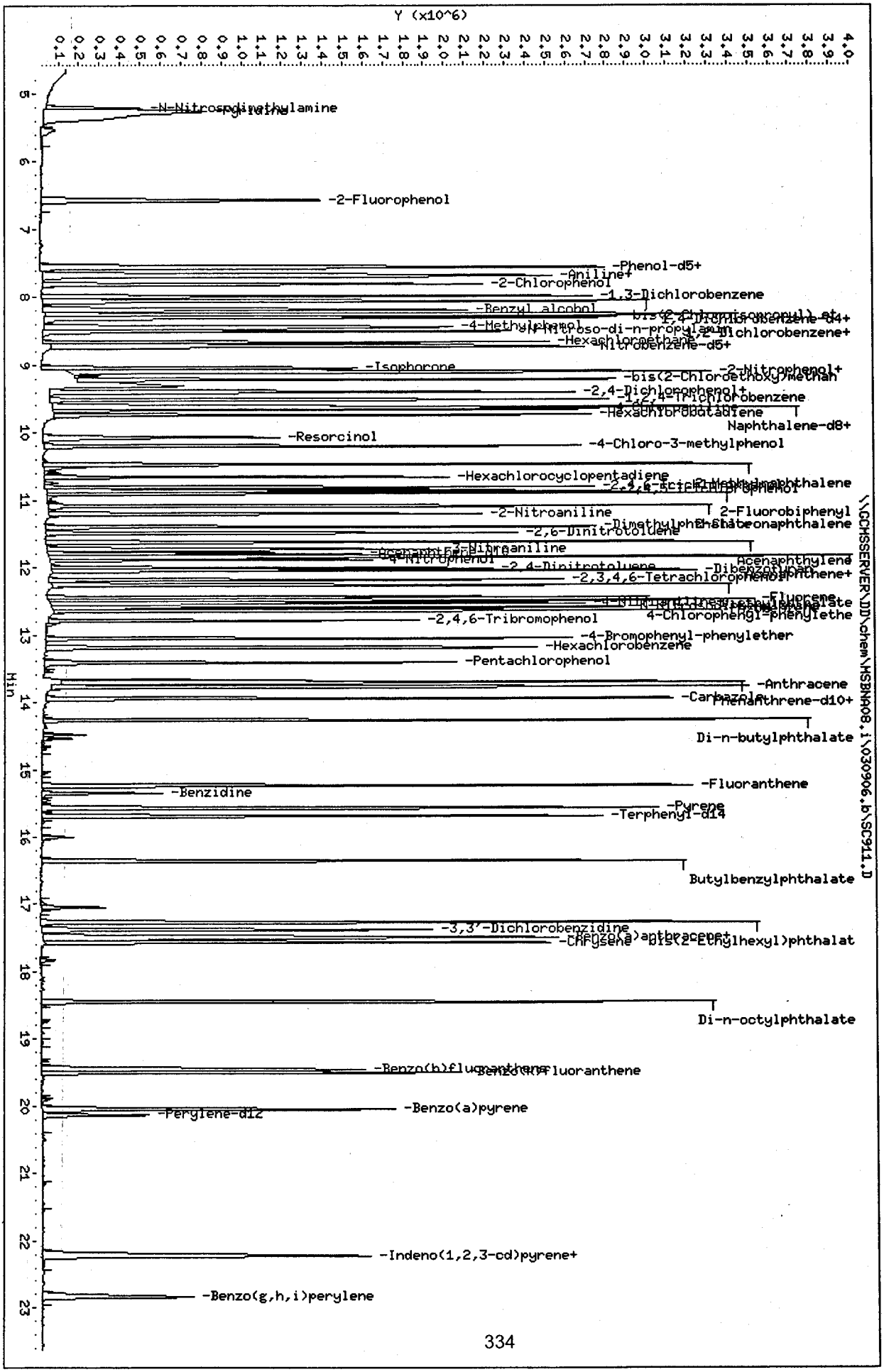
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	75 Benzo(a)anthracene	228	17.491	17.471	(0.999)	2263444	120.000	117.8367
*	76 Chrysene-d12	240	17.511	17.501	(1.000)	471821	40.0000	
	77 Chrysene	228	17.573	17.542	(1.004)	1831123	120.000	118.4597
	78 Di-n-octylphthalate	149	18.451	18.441	(0.917)	3037492	120.000	128.0680
	79 Benzo(b)fluoranthene	252	19.463	19.432	(0.967)	1842003	120.000	140.7009
	80 Benzo(k)fluoranthene	252	19.504	19.483	(0.969)	1567753	120.000	126.6103(A)
	81 Benzo(a)pyrene	252	20.045	20.025	(0.996)	1357350	120.000	131.0817
*	82 Perylene-d12	264	20.127	20.127	(1.000)	315600	40.0000	
	83 Indeno(1,2,3-cd)pyrene	276	22.222	22.191	(1.104)	1061599	120.000	122.1432
	84 Dibenz(a,h)anthracene	278	22.222	22.191	(1.104)	903390	120.000	125.7082
	85 Benzo(g,h,i)perylene	276	22.835	22.804	(1.135)	759046	120.000	115.9403

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\CCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC911.D
Date : 09-MAR-2006 14:57
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2585
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA08.i
Operator: BNA
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC912.D
Report Date: 09-Mar-2006 16:07

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC912.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 09-MAR-2006 15:32 MS Autotune Date: 13-JAN-2006 14:49
Operator : BNA Inst ID: MSBNA08.i
Smp Info : ICAL,S2586
Misc Info : 160ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\6PTBNA8.m
Meth Date : 09-Mar-2006 16:07 target Quant Type: ISTD
Cal Date : 09-MAR-2006 15:32 Cal File: SC912.D
Als bottle: 11 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	74	5.214	5.209	(0.648)	902029	160.000	157.4775
2 Pyridine	79	5.276	5.270	(0.656)	1555431	160.000	160.3321
$ 3 2-Fluorophenol	112	6.563	6.558	(0.816)	1149054	160.000	160.0149
$ 4 Phenol-d5	99	7.554	7.529	(0.939)	1486302	160.000	152.7010
5 Phenol	94	7.575	7.539	(0.942)	1636944	160.000	151.3685
6 Aniline	66	7.667	7.651	(0.953)	757655	160.000	150.6785
7 bis(2-Chloroethyl)ether	63	7.697	7.682	(0.957)	1055145	160.000	132.8524(Q)
8 2-Chlorophenol	128	7.810	7.794	(0.971)	1289497	160.000	161.6196
9 1,3-Dichlorobenzene	146	7.983	7.978	(0.992)	1342848	160.000	157.0297
* 10 1,4-Dichlorobenzene-d4	152	8.045	8.039	(1.000)	204411	40.0000	
11 1,4-Dichlorobenzene	146	8.065	8.060	(1.003)	1327171	160.000	153.2066
12 Benzyl alcohol	108	8.198	8.162	(1.019)	934487	160.000	159.4248
13 1,2-Dichlorobenzene	146	8.249	8.244	(1.025)	1151069	160.000	144.4511
14 2-Methylphenol	107	8.280	8.254	(1.029)	873688	160.000	143.0772
15 bis(2-Chloroisopropyl) ether	45	8.310	8.295	(1.033)	2449107	160.000	128.5531
16 4-Methylphenol	107	8.443	8.428	(1.050)	1553430	160.000	159.8536
17 N-Nitroso-di-n-propylamine	70	8.504	8.469	(1.057)	896813	160.000	145.6211
18 Hexachloroethane	117	8.658	8.653	(1.076)	599769	160.000	152.0181
$ 19 Nitrobenzene-d5	82	8.709	8.693	(0.907)	1343025	160.000	148.4486
20 Nitrobenzene	77	8.739	8.714	(0.911)	1360854	160.000	149.3356

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC912.D
Report Date: 09-Mar-2006 16:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	9.056	9.000	(0.944)	2721697	160.000	151.9562
	22 2-Nitrophenol	139	9.118	9.102	(0.950)	598667	160.000	147.1645
	23 2,4-Dimethylphenol	122	9.107	9.082	(0.949)	873900	160.000	142.6084
	24 bis(2-Chloroethoxy)methane	93	9.220	9.204	(0.961)	1618568	160.000	143.5033
	25 Benzoic acid	122	9.342	9.215	(0.973)	669588	160.000	158.8879(H)
	26 2,4-Dichlorophenol	162	9.404	9.378	(0.980)	962414	160.000	165.5219
	27 1,2,4-Trichlorobenzene	180	9.506	9.501	(0.990)	1042116	160.000	157.0489
*	28 Naphthalene-d8	136	9.598	9.582	(1.000)	760520	40.0000	
	29 Naphthalene	128	9.628	9.613	(1.003)	3149061	160.000	140.3758
	30 4-Chloroaniline	127	9.659	9.644	(1.006)	1573867	160.000	156.7997(H)
	31 Hexachlorobutadiene	225	9.741	9.725	(1.015)	544521	160.000	151.1047
	32 Resorcinol	110	10.078	10.042	(1.050)	919955	160.000	167.5215(A)
	33 4-Chloro-3-methylphenol	107	10.211	10.185	(1.064)	1002469	160.000	154.4833
	34 2-Methylnaphthalene	142	10.466	10.461	(1.090)	1928825	160.000	139.1316
	35 Hexachlorocyclopentadiene	237	10.650	10.645	(0.903)	509902	160.000	177.0997
	36 2,4,6-Trichlorophenol	196	10.814	10.788	(0.917)	661011	160.000	167.8805
	37 2,4,5-Trichlorophenol	196	10.865	10.839	(0.921)	720530	160.000	168.6797(H)
$	38 2-Fluorobiphenyl	172	10.906	10.890	(0.925)	1842885	160.000	145.3243
	39 2-Chloronaphthalene	162	11.090	11.074	(0.940)	1818113	160.000	147.0861
	40 2-Nitroaniline	65	11.212	11.187	(0.951)	782492	160.000	156.2224
	41 Dimethylphthalate	163	11.396	11.370	(0.966)	2179371	160.000	152.4081
	42 2,6-Dinitrotoluene	165	11.498	11.462	(0.975)	658045	160.000	168.0375
	43 Acenaphthylene	152	11.631	11.616	(0.986)	2820066	160.000	142.9188
	44 3-Nitroaniline	138	11.744	11.708	(0.996)	695727	160.000	174.4673
*	45 Acenaphthene-d10	164	11.795	11.779	(1.000)	410238	40.0000	
	46 Acenaphthene	154	11.846	11.830	(1.004)	1728133	160.000	143.4927
	47 2,4-Dinitrophenol	184	11.856	11.820	(1.005)	283463	160.000	158.4614(Q)
	48 4-Nitrophenol	109	11.897	11.851	(1.009)	281144	160.000	172.3166
	49 Dibenzofuran	168	12.050	12.035	(1.022)	2591879	160.000	150.2539
	50 2,4-Dinitrotoluene	165	12.019	11.984	(1.019)	819797	160.000	171.9268
	51 2,3,4,6-Tetrachlorophenol	232	12.193	12.178	(1.034)	567168	160.000	178.4434(A)
	52 Diethylphthalate	149	12.265	12.229	(1.040)	2128263	160.000	144.2030
	53 4-Chlorophenyl-phenylether	204	12.438	12.423	(1.055)	962160	160.000	147.2045
	54 Fluorene	166	12.489	12.474	(1.059)	2018706	160.000	145.4195
	55 4-Nitroaniline	138	12.541	12.484	(1.063)	675376	160.000	172.7468
	56 4,6-Dinitro-2-methylphenol	198	12.551	12.505	(0.918)	417707	160.000	158.8672
	57 N-Nitrosodiphenylamine	169	12.592	12.576	(0.921)	1352447	160.000	159.6153
	58 Azobenzene	77	12.643	12.627	(0.925)	2356643	160.000	134.2786
$	59 2,4,6-Tribromophenol	330	12.796	12.781	(1.085)	340487	160.000	177.9421
	60 4-Bromophenyl-phenylether	248	13.062	13.046	(0.955)	614044	160.000	160.7566
	61 Hexachlorobenzene	284	13.194	13.179	(0.965)	652552	160.000	155.6957
	62 Pentachlorophenol	266	13.419	13.404	(0.981)	413391	160.000	162.6498
*	63 Phenanthrene-d10	188	13.675	13.659	(1.000)	592845	40.0000	
	64 Phenanthrene	178	13.716	13.700	(1.003)	2773190	160.000	148.8187
	65 Anthracene	178	13.777	13.761	(1.007)	2674761	160.000	145.8972
	66 Carbazole	167	13.951	13.935	(1.020)	2649655	160.000	162.8989
	67 Di-n-butylphthalate	149	14.267	14.252	(1.043)	3434068	160.000	136.4697
	68 Fluoranthene	202	15.238	15.223	(1.114)	2731437	160.000	149.3381
	69 Benzidine	184	15.350	15.335	(0.876)	351611	160.000	172.6029
	70 Pyrene	202	15.575	15.560	(0.889)	2820822	160.000	159.2376
$	71 Terphenyl-d14	244	15.698	15.682	(0.896)	1866850	160.000	149.9135
	72 Butylbenzylphthalate	149	16.362	16.347	(0.934)	1565215	160.000	152.4255
	73 bis(2-Ethylhexyl)phthalate	149	17.271	17.256	(0.986)	1995508	160.000	144.8549
	74 3,3'-Dichlorobenzidine	252	17.384	17.358	(0.992)	891397	160.000	171.9902

3/10/06

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC912.D
Report Date: 09-Mar-2006 16:07

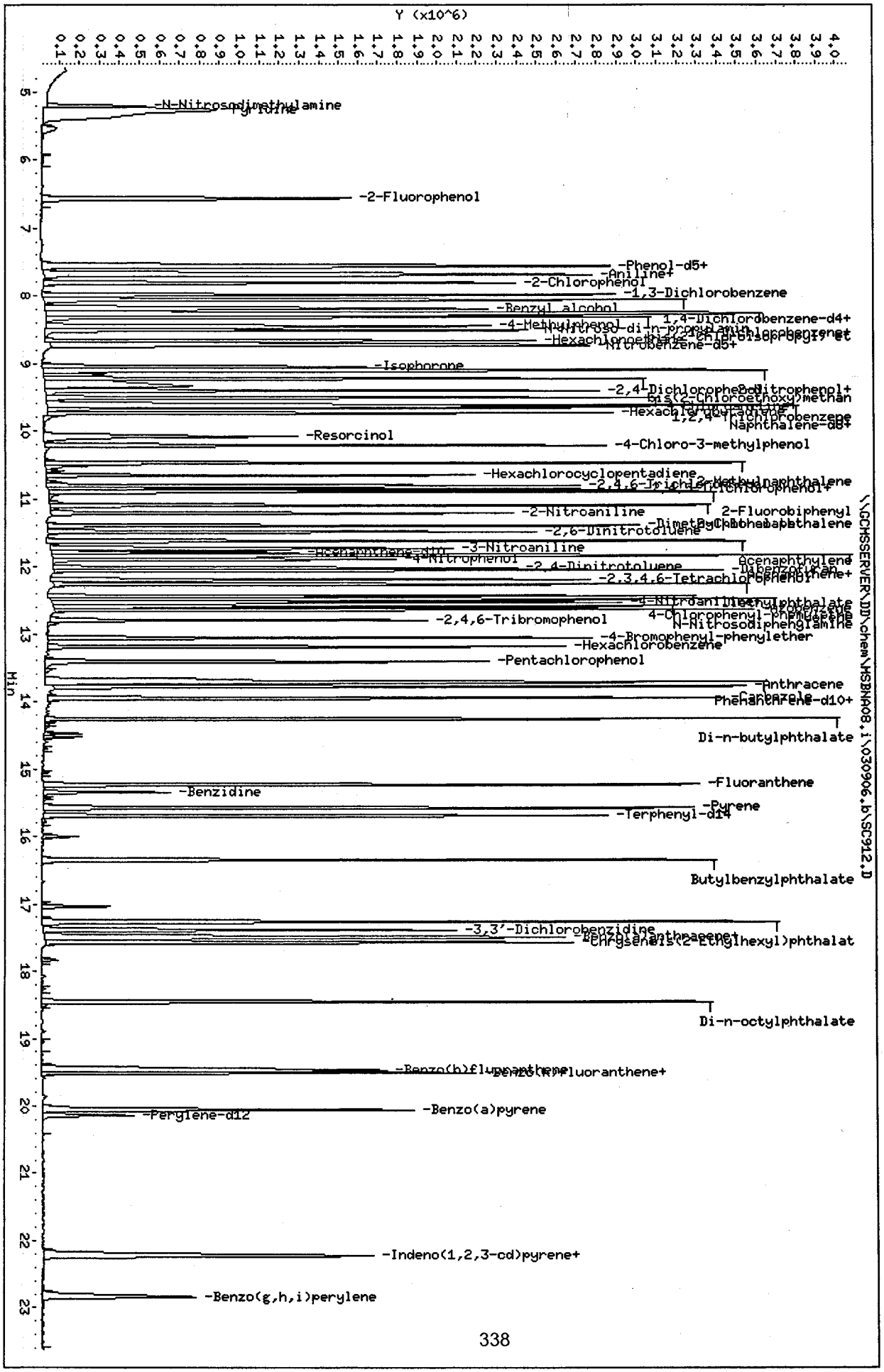
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Benzo(a)anthracene	228	17.496	17.471	(0.999)	2507587	160.000	155.9654
* 76 Chrysene-d12	240	17.517	17.501	(1.000)	394926	40.0000	
77 Chrysene	228	17.568	17.542	(1.003)	2037316	160.000	157.4611
78 Di-n-octylphthalate	149	18.457	18.441	(0.917)	3256049	160.000	167.7078
79 Benzo(b)fluoranthene	252	19.468	19.432	(0.967)	2119032	160.000	197.7338
80 Benzo(k)fluoranthene	252	19.509	19.483	(0.969)	1673170	160.000	165.0702(AH)
81 Benzo(a)pyrene	252	20.051	20.025	(0.996)	1490140	160.000	175.7981
* 82 Perylene-d12	264	20.132	20.127	(1.000)	258345	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	22.227	22.191	(1.104)	1133080	160.000	159.2598
84 Dibenz(a,h)anthracene	278	22.227	22.191	(1.104)	967408	160.000	164.4505
85 Benzo(g,h,i)perylene	276	22.840	22.804	(1.134)	816619	160.000	152.3782

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC912.D
Date : 09-MAR-2006 15:32
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2586
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA08.i
Operator: BNA
Column diameter: 0.25



CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8270C

Inst : MSBNA08 IDF : 1.0
Seqnum : 576098484013 File : sc913 Time : 09-MAR-2006 16:07
Cal : 576098484001 Caldate: 09-MAR-2006
Standards: S2760

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
N-Nitrosodimethylamine	1.1209	1.0492	60.00	56.16	ng	-6	30	
Pyridine	1.8984	1.7707	60.00	55.96	ng	-7	30	
Phenol	2.1162	2.0001	60.00	56.71	ng	-5	20	
Aniline	0.9840	1.0352	60.00	63.13	ng	5	30	
bis(2-Chloroethyl)ether	1.5542	1.5277	60.00	58.98	ng	-2	30	
2-Chlorophenol	1.5613	1.4819	60.00	56.95	ng	-5	30	
1,3-Dichlorobenzene	1.6734	1.4653	60.00	52.54	ng	-12	30	
1,4-Dichlorobenzene	1.6951	1.5164	60.00	53.67	ng	-11	20	
Benzyl alcohol	1.1470	1.0655	60.00	55.74	ng	-7	30	
1,2-Dichlorobenzene	1.5593	1.4540	60.00	55.95	ng	-7	30	
2-Methylphenol	1.1949	1.1449	60.00	57.49	ng	-4	30	
bis(2-Chloroisopropyl) ether	3.7280	3.5592	60.00	57.28	ng	-5	30	
4-Methylphenol	1.9016	1.7435	60.00	55.01	ng	-8	30	
N-Nitroso-di-n-propylamine	1.2051	1.1972	60.00	59.61	ng	-1	30	
Hexachloroethane	0.7720	0.7104	60.00	55.21	ng	-8	30	
Nitrobenzene	0.4793	0.4287	60.00	53.66	ng	-11	30	
Isophorone	0.9420	0.8982	60.00	57.21	ng	-5	30	
2-Nitrophenol	0.2140	0.2057	60.00	57.68	ng	-4	20	
2,4-Dimethylphenol	0.3223	0.3410	60.00	63.49	ng	6	30	
bis(2-Chloroethoxy)methane	0.5932	0.5380	60.00	54.41	ng	-9	30	
Benzoic acid	0.1624	0.1694	60.00	65.79	ng	10	40	m
2,4-Dichlorophenol	0.3058	0.2874	60.00	56.39	ng	-6	20	
1,2,4-Trichlorobenzene	0.3490	0.3149	60.00	54.14	ng	-10	30	
Naphthalene	1.1799	1.0820	60.00	55.02	ng	-8	30	
4-Chloroaniline	0.5279	0.5330	60.00	60.58	ng	1	30	
Hexachlorobutadiene	0.1895	0.1727	60.00	54.66	ng	-9	20	
4-Chloro-3-methylphenol	0.3413	0.3113	60.00	54.73	ng	-9	20	
2-Methylnaphthalene	0.7291	0.6878	60.00	56.60	ng	-6	30	
Resorcinol	0.2888	0.2887	60.00	59.98	ng	0	30	
Hexachlorocyclopentadiene	0.2807	0.2932	60.00	62.67	ng	4	40	
2,4,6-Trichlorophenol	0.3839	0.3456	60.00	54.01	ng	-10	20	
2,4,5-Trichlorophenol	0.4165	0.3876	60.00	55.84	ng	-7	30	
2-Chloronaphthalene	1.2052	1.0633	60.00	52.93	ng	-12	30	
2-Nitroaniline	0.4884	0.4473	60.00	54.95	ng	-8	30	
Dimethylphthalate	1.3943	1.2533	60.00	53.93	ng	-10	30	
2,6-Dinitrotoluene	0.3818	0.3352	60.00	52.68	ng	-12	30	
Acenaphthylene	1.9240	1.7517	60.00	54.63	ng	-9	30	
3-Nitroaniline	0.3888	0.3597	60.00	55.50	ng	-7	30	
Acenaphthene	1.1743	1.0724	60.00	54.79	ng	-9	20	
2,4-Dinitrophenol	0.1106	0.1237	60.00	60.98	ng	2	40	
4-Nitrophenol	0.1591	0.1430	60.00	53.92	ng	-10	40	
Dibenzofuran	1.6819	1.5807	60.00	56.39	ng	-6	30	
2,4-Dinitrotoluene	0.4649	0.4188	60.00	54.05	ng	-10	30	
2,3,4,6-Tetrachlorophenol	0.3099	0.2145	60.00	41.53	ng	-31	30	v- ***
Diethylphthalate	1.4390	1.3327	60.00	55.56	ng	-7	30	
Fluorene	1.3536	1.2505	60.00	55.43	ng	-8	30	
4-Chlorophenyl-phenylether	0.6373	0.5995	60.00	56.44	ng	-6	40	
4-Nitroaniline	0.3812	0.3527	60.00	55.52	ng	-7	30	
4,6-Dinitro-2-methylphenol	0.1384	0.1400	60.00	62.72	ng	5	30	

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Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
N-Nitrosodiphenylamine	0.5717	0.6202	60.00	65.09	ng	8	20	
Azobenzene	1.1841	1.0743	60.00	54.44	ng	-9	30	
4-Bromophenyl-phenylether	0.2577	0.2391	60.00	55.66	ng	-7	30	
Hexachlorobenzene	0.2828	0.2590	60.00	54.96	ng	-8	30	
Pentachlorophenol	0.1436	0.1683	60.00	68.32	ng	14	20	
Phenanthrene	1.2573	1.1495	60.00	54.86	ng	-9	30	
Anthracene	1.2370	1.1733	60.00	56.91	ng	-5	30	
Carbazole	1.0975	1.0456	60.00	57.17	ng	-5	30	
Di-n-butylphthalate	1.6978	1.6001	60.00	56.55	ng	-6	30	
Fluoranthene	1.2341	1.1264	60.00	54.77	ng	-9	20	
Benzidine	0.2063	0.2403	60.00	69.86	ng	16	40	
Pyrene	1.7942	1.6473	60.00	55.09	ng	-8	30	
Butylbenzylphthalate	1.0401	0.9215	60.00	53.16	ng	-11	30	
3,3'-Dichlorobenzidine	0.5249	0.4738	60.00	54.15	ng	-10	40	
Benzo(a)anthracene	1.6284	1.3741	60.00	50.63	ng	-16	30	
bis(2-Ethylhexyl)phthalate	1.3953	1.2633	60.00	54.32	ng	-9	30	
Chrysene	1.3105	1.0318	60.00	47.24	ng	-21	30	!v-
Di-n-octylphthalate	3.0061	2.6527	60.00	52.95	ng	-12	20	
Benzo(b)fluoranthene	1.6593	1.5095	60.00	54.59	ng	-9	30	
Benzo(k)fluoranthene	1.5694	1.4358	60.00	54.89	ng	-9	30	
Benzo(a)pyrene	1.3124	1.2189	60.00	55.72	ng	-7	20	
Indeno(1,2,3-cd)pyrene	1.1016	0.9728	60.00	52.98	ng	-12	30	
Dibenz(a,h)anthracene	0.9108	0.6409	60.00	42.22	ng	-30	30	!v-
Benzo(g,h,i)perylene	0.8298	0.7612	60.00	55.04	ng	-8	30	

ISTD (CCV sc903)	CCV Area	Area	%Drift	CCV RT	RT	Drift
1,4-Dichlorobenzene-d4	211996	238125	12.33	8.03	8.04	0.01
Naphthalene-d8	829683	911683	9.88	9.59	9.59	0.00
Acenaphthene-d10	449701	520561	15.76	11.78	11.79	0.01
Phenanthrene-d10	659230	769888	16.79	13.66	13.67	0.01
Chrysene-d12	460366	542458	17.83	17.50	17.50	0.00
Perylene-d12	350315	411697	17.52	20.12	20.13	0.01

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!=warning -=low bias m=manual integration v=ICV

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC913.D
Report Date: 09-Mar-2006 16:47

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC913.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 09-MAR-2006 16:07 MS Autotune Date: 13-JAN-2006 14:49
Operator : BNA Inst ID: MSBNA08.i
Smp Info : ICAV,S2760
Misc Info : 60ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\6PTBNA8.m
Meth Date : 09-Mar-2006 16:07 target Quant Type: ISTD
Cal Date : 09-MAR-2006 15:32 Cal File: SC912.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	1 N-Nitrosodimethylamine	74	5.201	5.209	(0.647)	374750	56.1616	56.1615
	2 Pyridine	79	5.273	5.270	(0.656)	632470	55.9640	55.9640
$	3 2-Fluorophenol	112	6.570	6.558	(0.817)	499146	59.6688	59.6687
$	4 Phenol-d5	99	7.541	7.529	(0.938)	658270	58.0548	58.0548
	5 Phenol	94	7.551	7.539	(0.939)	714402	56.7079	56.7079
	6 Aniline	66	7.654	7.651	(0.952)	369776	63.1274	63.1274
	7 bis(2-Chloroethyl)ether	63	7.684	7.682	(0.956)	545680	58.9786	58.9786
	8 2-Chlorophenol	128	7.807	7.794	(0.971)	529320	56.9497	56.9497
	9 1,3-Dichlorobenzene	146	7.981	7.978	(0.992)	523383	52.5380	52.5380
*	10 1,4-Dichlorobenzene-d4	152	8.042	8.039	(1.000)	238125	40.0000	
	11 1,4-Dichlorobenzene	146	8.062	8.060	(1.003)	541639	53.6735	53.6735
	12 Benzyl alcohol	108	8.175	8.162	(1.017)	380587	55.7360	55.7360
	13 1,2-Dichlorobenzene	146	8.256	8.244	(1.027)	519344	55.9466	55.9466
	14 2-Methylphenol	107	8.267	8.254	(1.028)	408941	57.4876	57.4875
	15 bis(2-Chloroisopropyl) ether	45	8.297	8.295	(1.032)	1271318	57.2833	57.2833
	16 4-Methylphenol	107	8.440	8.428	(1.050)	622769	55.0120	55.0119
	17 N-Nitroso-di-n-propylamine	70	8.481	8.469	(1.055)	427626	59.6054	59.6054
	18 Hexachloroethane	117	8.655	8.653	(1.076)	253749	55.2096	55.2096
$	19 Nitrobenzene-d5	82	8.696	8.693	(0.907)	589910	54.3932	54.3932
	20 Nitrobenzene	77	8.726	8.714	(0.910)	586221	53.6636	53.6636

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC913.D
Report Date: 09-Mar-2006 16:47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	21 Isophorone	82	9.013	9.000	(0.940)	1228270	57.2057	57.2057
	22 2-Nitrophenol	139	9.105	9.102	(0.950)	281276	57.6790	57.6789
	23 2,4-Dimethylphenol	122	9.094	9.082	(0.949)	466391	63.4893	63.4892
	24 bis(2-Chloroethoxy)methane	93	9.207	9.204	(0.961)	735711	54.4133	54.4133
	25 Benzoic acid	122	9.248	9.215	(0.965)	231668	65.7875	65.7875(M)
	26 2,4-Dichlorophenol	162	9.391	9.378	(0.980)	393011	56.3852	56.3851
	27 1,2,4-Trichlorobenzene	180	9.503	9.501	(0.991)	430634	54.1370	54.1369
*	28 Naphthalene-d8	136	9.585	9.582	(1.000)	911683	40.0000	
	29 Naphthalene	128	9.615	9.613	(1.003)	1479677	55.0231	55.0230
	30 4-Chloroaniline	127	9.646	9.644	(1.006)	728949	60.5817	60.5816
	31 Hexachlorobutadiene	225	9.738	9.725	(1.016)	236116	54.6582	54.6582
	32 Resorcinol	110	10.055	10.042	(1.049)	394871	59.9827	59.9826(A)
	33 4-Chloro-3-methylphenol	107	10.198	10.185	(1.064)	425734	54.7288	54.7287
	34 2-Methylnaphthalene	142	10.463	10.461	(1.092)	940575	56.5970	56.5969
	35 Hexachlorocyclopentadiene	237	10.647	10.645	(0.903)	228962	62.6699	62.6698
	36 2,4,6-Trichlorophenol	196	10.801	10.788	(0.916)	269836	54.0077	54.0077
	37 2,4,5-Trichlorophenol	196	10.852	10.839	(0.920)	302685	55.8427	55.8426
$	38 2-Fluorobiphenyl	172	10.893	10.890	(0.924)	930809	57.8449	57.8448(R)
	39 2-Chloronaphthalene	162	11.087	11.074	(0.940)	830281	52.9347	52.9346
	40 2-Nitroaniline	65	11.199	11.187	(0.950)	349283	54.9548	54.9547
	41 Dimethylphthalate	163	11.373	11.370	(0.964)	978615	53.9328	53.9328
	42 2,6-Dinitrotoluene	165	11.475	11.462	(0.973)	261762	52.6771	52.6770
	43 Acenaphthylene	152	11.618	11.616	(0.985)	1367832	54.6295	54.6295
	44 3-Nitroaniline	138	11.710	11.708	(0.993)	280861	55.5048	55.5048
*	45 Acenaphthene-d10	164	11.792	11.779	(1.000)	520561	40.0000	
	46 Acenaphthene	154	11.833	11.830	(1.003)	837353	54.7931	54.7930
	47 2,4-Dinitrophenol	184	11.833	11.820	(1.003)	96611	60.9760	60.9759(Q)
	48 4-Nitrophenol	109	11.863	11.851	(1.006)	111638	53.9231	53.9230
	49 Dibenzofuran	168	12.047	12.035	(1.022)	1234266	56.3877	56.3876
	50 2,4-Dinitrotoluene	165	11.996	11.984	(1.017)	327026	54.0485	54.0485
	51 2,3,4,6-Tetrachlorophenol	232	12.180	12.178	(1.033)	167514	41.5340	41.5340(A)
	52 Diethylphthalate	149	12.241	12.229	(1.038)	1040606	55.5648	55.5648
	53 4-Chlorophenyl-phenylether	204	12.425	12.423	(1.054)	468105	56.4393	56.4392
	54 Fluorene	166	12.476	12.474	(1.058)	976406	55.4299	55.4299
	55 4-Nitroaniline	138	12.497	12.484	(1.060)	275414	55.5156	55.5155
	56 4,6-Dinitro-2-methylphenol	198	12.517	12.505	(0.916)	161670	62.7246	62.7245
	57 N-Nitrosodiphenylamine	169	12.579	12.576	(0.920)	716252	65.0930	65.0929
	58 Azobenzene	77	12.630	12.627	(0.924)	1240667	54.4355	54.4354
$	59 2,4,6-Tribromophenol	330	12.783	12.781	(1.084)	139065	57.2744	57.2743
	60 4-Bromophenyl-phenylether	248	13.049	13.046	(0.954)	276092	55.6592	55.6591
	61 Hexachlorobenzene	284	13.181	13.179	(0.964)	299121	54.9569	54.9568
	62 Pentachlorophenol	266	13.406	13.404	(0.981)	194336	68.3223	68.3223
*	63 Phenanthrene-d10	188	13.672	13.659	(1.000)	769888	40.0000	
	64 Phenanthrene	178	13.703	13.700	(1.002)	1327495	54.8561	54.8560
	65 Anthracene	178	13.764	13.761	(1.007)	1354907	56.9096	56.9095
	66 Carbazole	167	13.938	13.935	(1.019)	1207508	57.1653	57.1652
	67 Di-n-butylphthalate	149	14.254	14.252	(1.043)	1847885	56.5478	56.5478
	68 Fluoranthene	202	15.225	15.223	(1.114)	1300833	54.7665	54.7664
	69 Benzidine	184	15.337	15.335	(0.876)	195489	69.8647	69.8646
	70 Pyrene	202	15.562	15.560	(0.889)	1340425	55.0887	55.0886
$	71 Terphenyl-d14	244	15.685	15.682	(0.896)	921992	53.9024	53.9024
	72 Butylbenzylphthalate	149	16.349	16.347	(0.934)	749850	53.1628	53.1627
	73 bis(2-Ethylhexyl)phthalate	149	17.258	17.256	(0.986)	1027924	54.3238	54.3238
	74 3,3'-Dichlorobenzidine	252	17.361	17.358	(0.992)	385494	54.1502	54.1501

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Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC913.D
Report Date: 09-Mar-2006 16:47

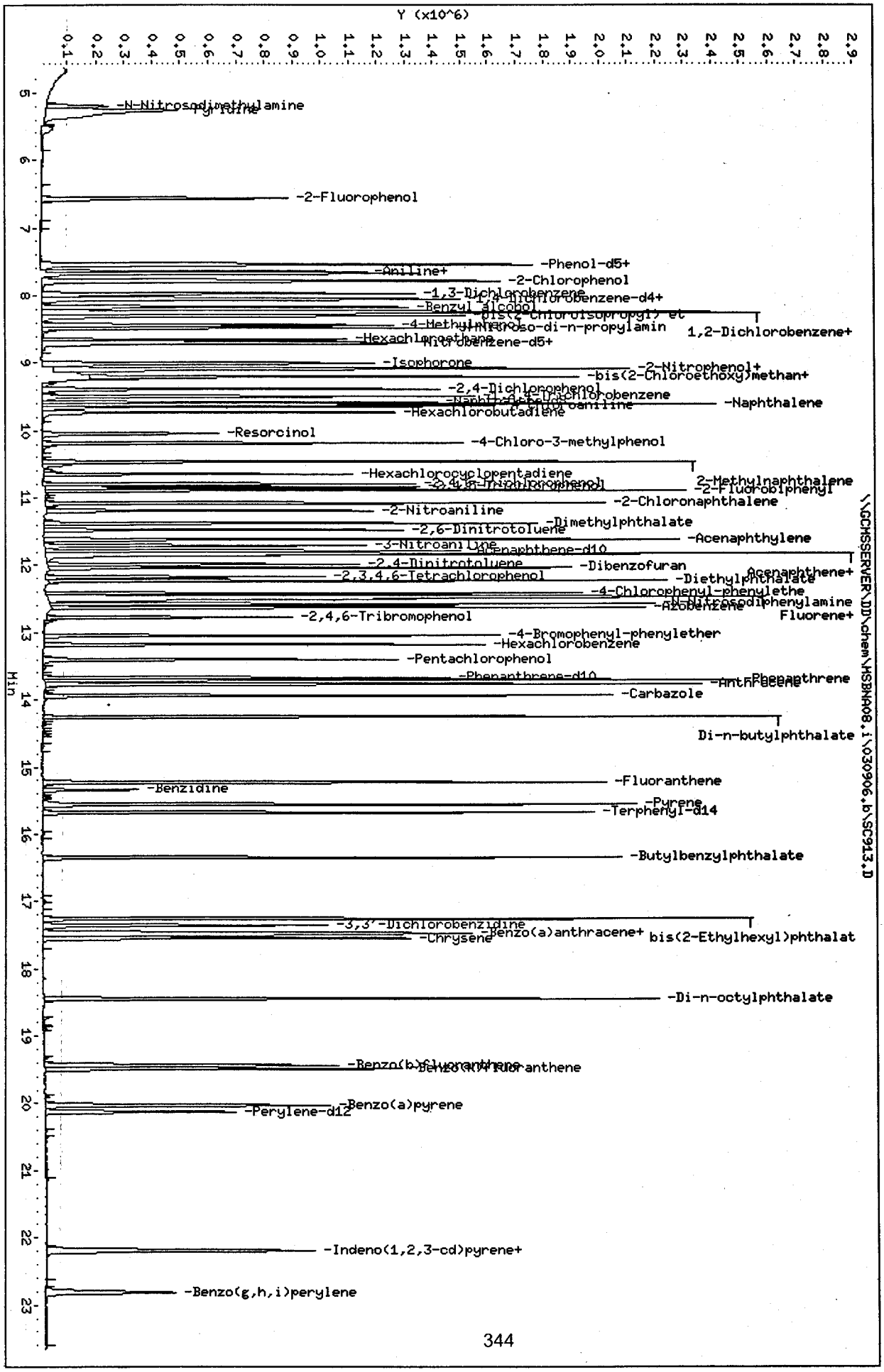
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
75 Benzo(a)anthracene	228	17.473	17.471	(0.998)	1118126	50.6306	50.6305
* 76 Chrysene-d12	240	17.504	17.501	(1.000)	542458	40.0000	
77 Chrysene	228	17.555	17.542	(1.003)	839600	47.2429	47.2429
78 Di-n-octylphthalate	149	18.444	18.441	(0.916)	1638172	52.9474	52.9473
79 Benzo(b)fluoranthene	252	19.445	19.432	(0.966)	932205	54.5855	54.5855
80 Benzo(k)fluoranthene	252	19.486	19.483	(0.968)	886697	54.8942	54.8941(A)
81 Benzo(a)pyrene	252	20.038	20.025	(0.995)	752728	55.7247	55.7247
* 82 Perylene-d12	264	20.130	20.127	(1.000)	411697	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	22.204	22.191	(1.103)	600726	52.9840	52.9839
84 Dibenz(a,h)anthracene	278	22.194	22.191	(1.103)	395787	42.2191	42.2191
85 Benzo(g,h,i)perylene	276	22.817	22.804	(1.133)	470045	55.0383	55.0383

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC913.D
Date : 09-MAR-2006 16:07
Client ID: CURTIS&TOMPKINS
Sample Info: ICAV,S2760
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA08.i
Operator: BNA
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC902.D

Date : 09-MAR-2006 09:37

Client ID: dftpp tune std

Instrument: MSBNA08.i

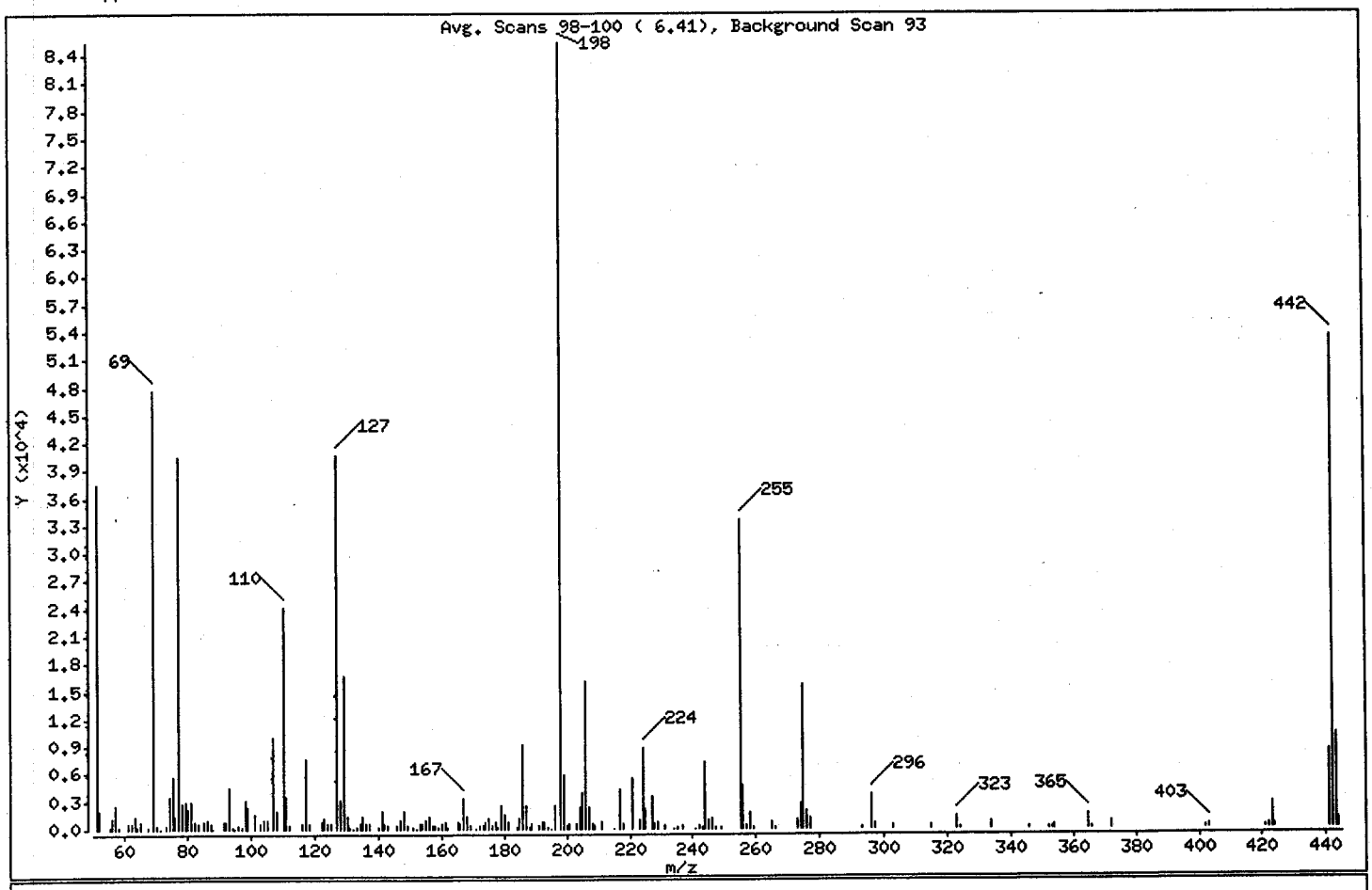
Sample Info: TUN,S1637

Operator: BNA

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	43.83
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	55.89
70	Less than 2.00% of mass 69	0.48 (0.87)
127	40.00 - 60.00% of mass 198	47.60
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.80
275	10.00 - 30.00% of mass 198	18.32
365	Greater than 1.00% of mass 198	1.84
441	Present, but less than mass 443	9.81
442	40.00 - 99.99% of mass 198	62.58
443	17.00 - 23.00% of mass 442	12.05 (19.26)

MSBNA08
ICAL
3/10/06

3/10/06

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC902.D

Date : 09-MAR-2006 09:37

Client ID: dftpp tune std

Instrument: MSBNA08.i

Sample Info: TUN,S1637

Operator: BNA

Column phase: Xti 5

Column diameter: 0.25

Data File: SC902.D

Spectrum: Avg. Scans 98-100 (6.41), Background Scan 93

Location of Maximum: 198.00

Number of points: 185

m/z	Y	m/z	Y	m/z	Y	m/z	Y
51.00	37432	112.00	430	174.00	728	242.00	410
52.00	1957	116.00	568	175.00	1192	243.00	212
55.00	183	117.00	7671	176.00	470	244.00	7284
56.00	1165	118.00	619	177.00	704	245.00	953
57.00	2554	122.00	851	178.00	189	246.00	1152
58.00	188	123.00	1196	179.00	2456	247.00	189
61.00	548	124.00	668	180.00	1654	249.00	280
62.00	582	125.00	633	181.00	782	255.00	33512
63.00	1454	127.00	40656	184.00	123	256.00	4789
64.00	181	128.00	3076	185.00	1128	257.00	375
65.00	873	129.00	16592	186.00	9211	258.00	1789
67.00	197	130.00	1411	187.00	2578	259.00	208
69.00	47736	131.00	244	188.00	218	265.00	727
70.00	414	132.00	98	189.00	574	266.00	230
71.00	78	133.00	105	191.00	379	273.00	1004
73.00	363	134.00	513	192.00	836	274.00	2828
74.00	3581	135.00	1325	193.00	883	275.00	15646
75.00	5663	136.00	587	194.00	201	276.00	2047
76.00	1366	137.00	571	195.00	89	277.00	1110
77.00	40520	140.00	103	196.00	2600	293.00	114
78.00	2748	141.00	1904	198.00	85408	296.00	3691
79.00	2933	142.00	609	199.00	5812	297.00	537
80.00	2124	143.00	442	200.00	432	303.00	447
81.00	2876	146.00	357	201.00	521	315.00	391
82.00	778	147.00	971	203.00	518	323.00	1306
83.00	495	148.00	1915	204.00	2272	324.00	127
85.00	714	149.00	444	205.00	3893	334.00	752
86.00	951	151.00	278	206.00	16173	346.00	119
87.00	522	152.00	87	207.00	2274	352.00	247
88.00	96	153.00	549	208.00	686	353.00	179
91.00	794	154.00	500	209.00	311	354.00	421
92.00	710	155.00	999	211.00	773	365.00	1572
93.00	4475	156.00	1415	215.00	91	366.00	171
94.00	276	157.00	352	217.00	4336	372.00	699
95.00	98	158.00	328	218.00	538	402.00	220

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC902.D

Date : 09-MAR-2006 09:37

Client ID: dftpp tune std

Instrument: MSBNA08.i

Sample Info: TUN,S1637

Operator: BNA

Column phase: Xti 5

Column diameter: 0.25

Data File: SC902.D
Spectrum: Avg. Scans 98-100 (6.41), Background Scan 93
Location of Maximum: 198.00
Number of points: 185

m/z	Y	m/z	Y	m/z	Y	m/z	Y
96.00	442	159.00	189	221.00	5537	403.00	382
97.00	269	160.00	523	223.00	1045	421.00	258
98.00	3158	161.00	811	224.00	8844	422.00	372
99.00	2433	162.00	135	225.00	2222	423.00	2697
101.00	1514	165.00	731	227.00	3592	424.00	488
103.00	655	166.00	550	228.00	529	441.00	8376
104.00	1004	167.00	3335	229.00	704	442.00	53448
105.00	943	168.00	1420	231.00	325	443.00	10295
107.00	10008	169.00	331	234.00	92	444.00	1032
108.00	1910	171.00	84	235.00	196		
110.00	24136	172.00	337	237.00	296		
111.00	3532	173.00	356	241.00	87		

Data File: \\GCMSSERVER\DD\chem\MSBNA08.i\030906.b\SC902.D

Page 1

Date : 09-MAR-2006 09:37

Client ID: dftpp tune std

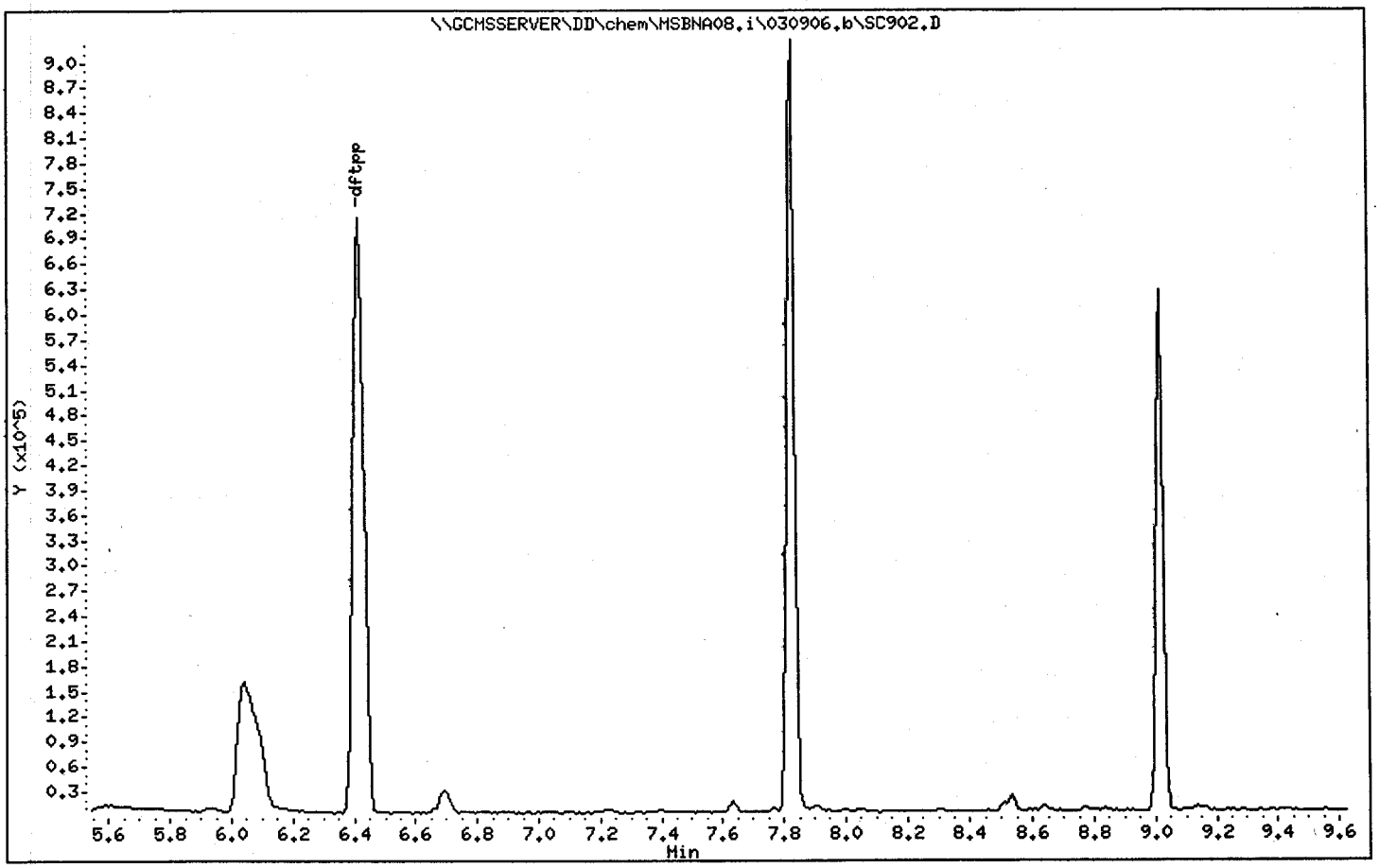
Instrument: MSBNA08.i

Sample Info: TUN,S1637

Operator: BNA

Column phase: Xti 5

Column diameter: 0.25



Signal Manual Integrations Report

Report Date: 03/09/2006 16:05

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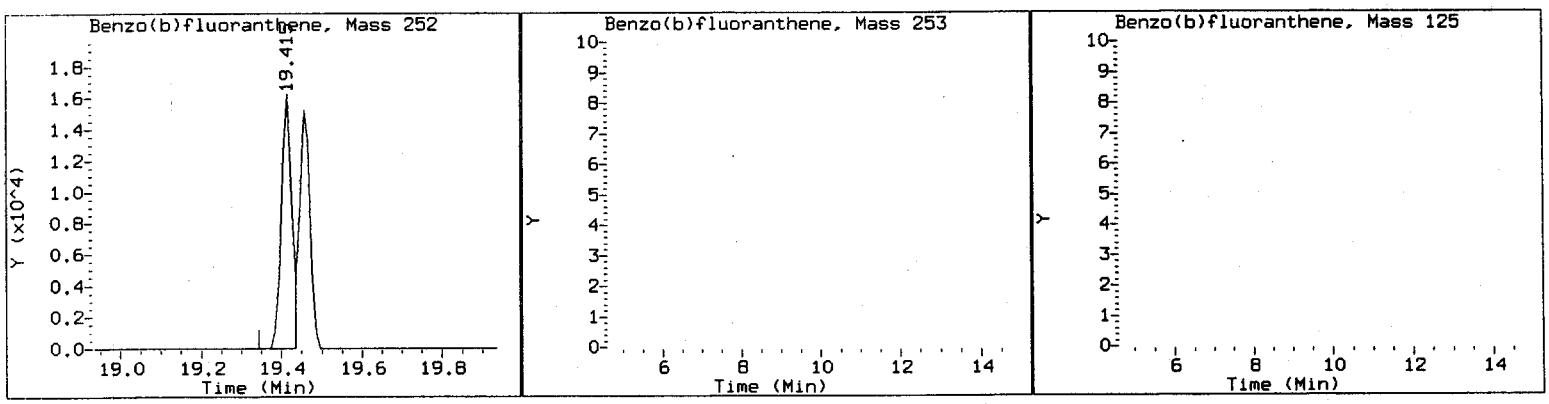
Injection Date: 09-MAR-2006 10:54
Lab ID: Client ID:CURTIS&TOMPKINS



Signal Manual Integrations Report

Report Date: 03/09/2006 16:06

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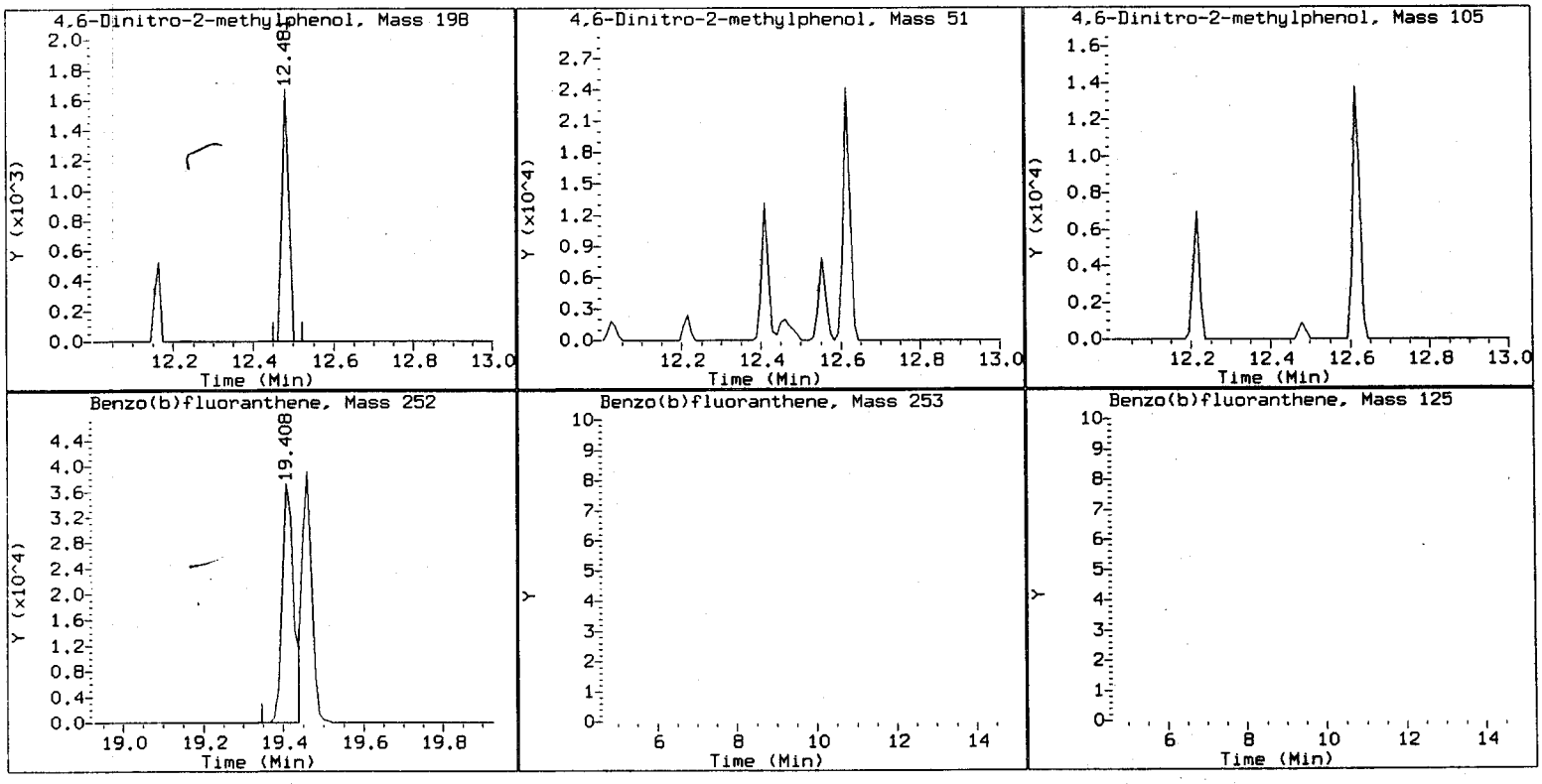

Signal Manual Integrations Report

Report Date: 03/09/2006 16:07

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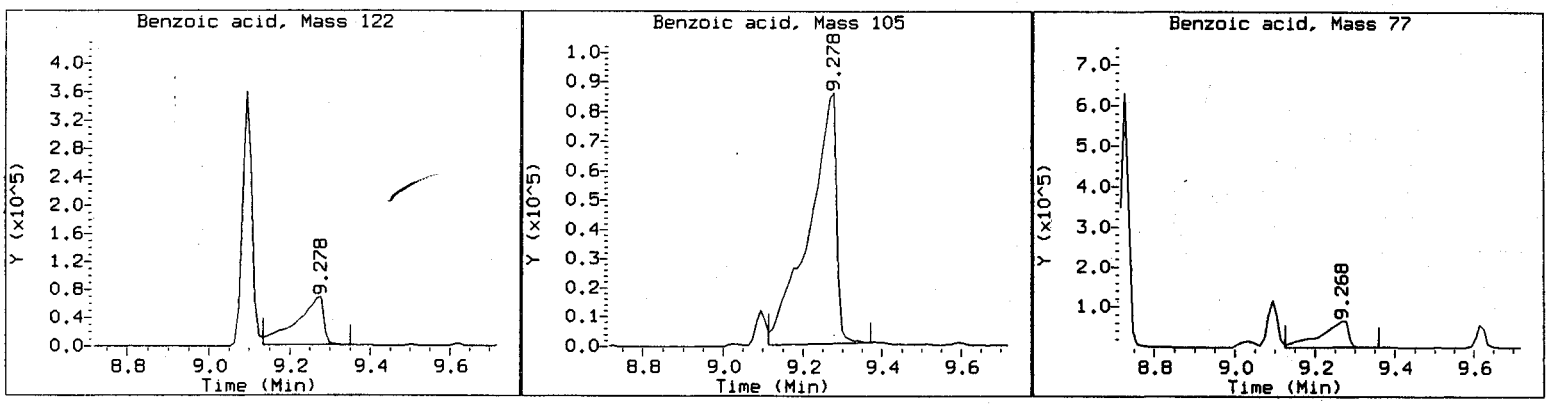
Injection Date: 09-MAR-2006 14:22
Lab ID: Client ID:CURTIS&TOMPKINS



Signal Manual Integrations Report

Report Date: 03/09/2006 16:07

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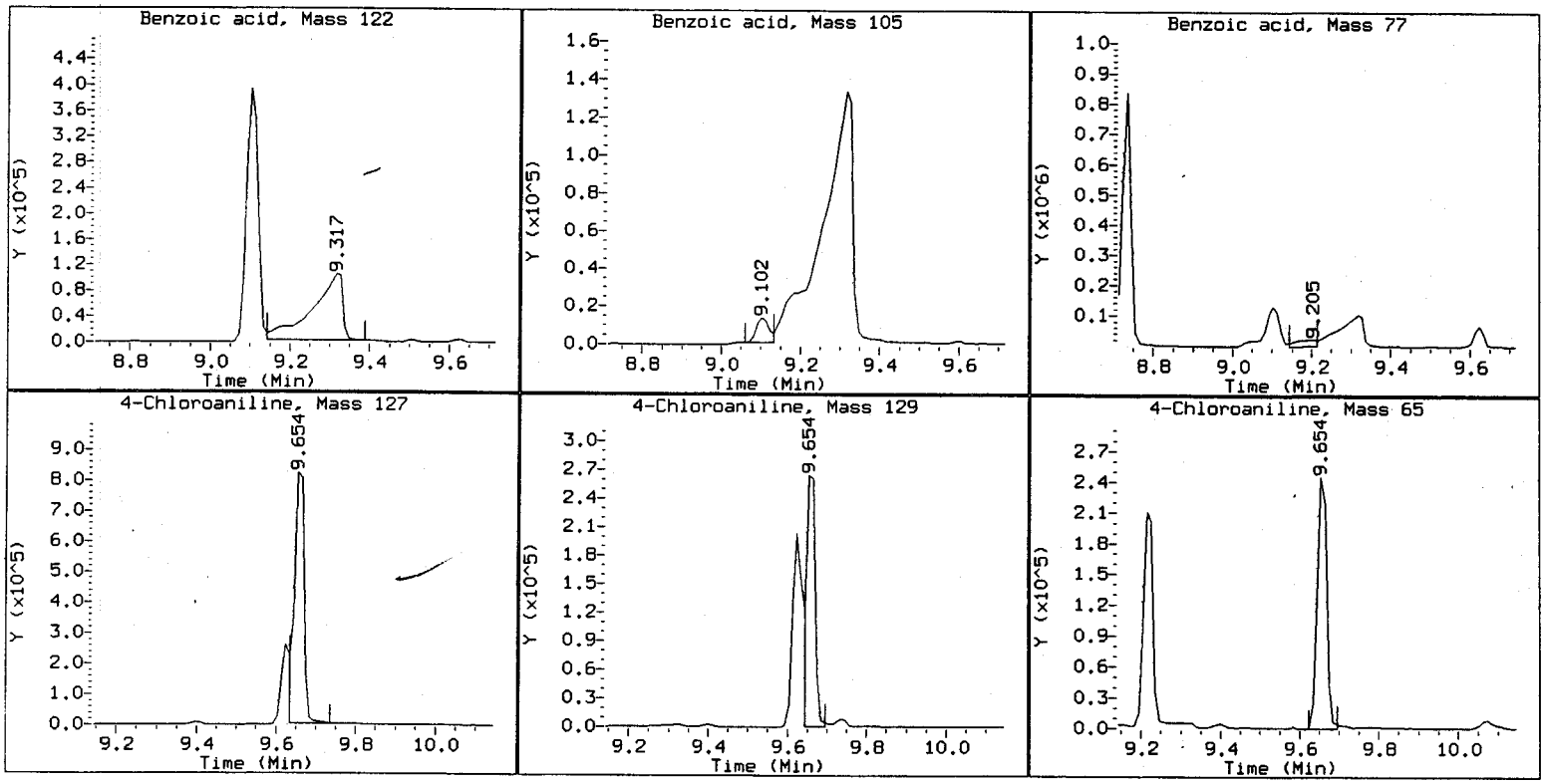

Signal Manual Integrations Report

Report Date: 03/09/2006 16:47

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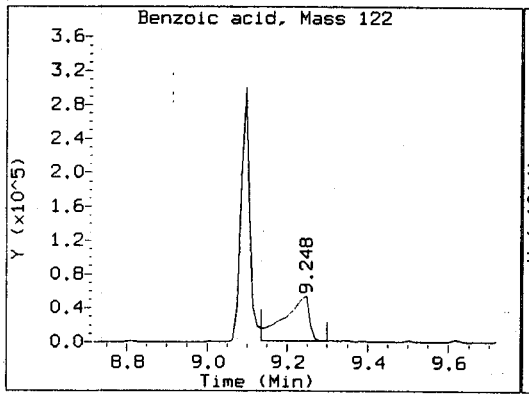
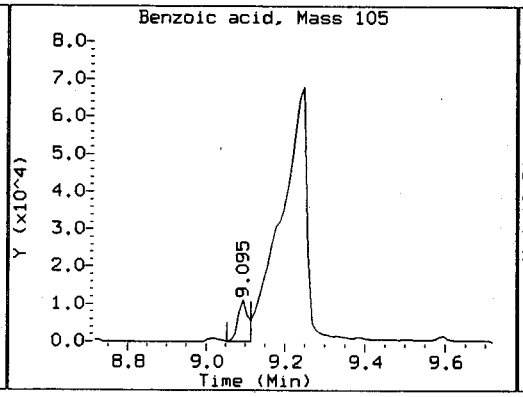
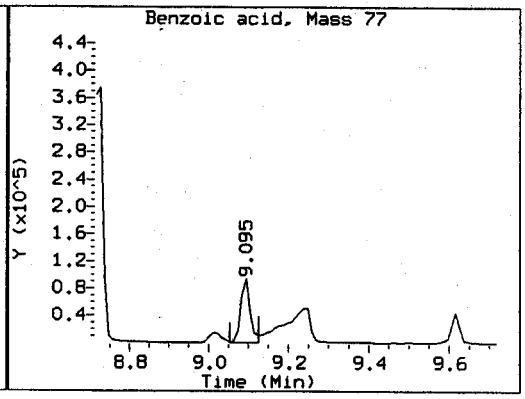
Lab ID: Client ID:CURTIS&TOMPKINS







CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185511 MSBNA Water
EPA 8270C

Inst : MSBNA08
Calnum : 576098484001

Name : 6PTBNA8
Cal Date: 09-MAR-2006

ICV 576098484013 (sc913 09-MAR-2006) stds: S2760

Analyte	Spiked	Quant	Units	%D	Max	Flags
Phenol	60.00	56.71	ng	-5	20	
bis(2-Chloroethyl)ether	60.00	58.98	ng	-2	30	
2-Chlorophenol	60.00	56.95	ng	-5	30	
1,3-Dichlorobenzene	60.00	52.54	ng	-12	30	
1,4-Dichlorobenzene	60.00	53.67	ng	-11	20	
Benzyl alcohol	60.00	55.74	ng	-7	30	
1,2-Dichlorobenzene	60.00	55.95	ng	-7	30	
2-Methylphenol	60.00	57.49	ng	-4	30	
bis(2-Chloroisopropyl) ether	60.00	57.28	ng	-5	30	
4-Methylphenol	60.00	55.01	ng	-8	30	
N-Nitroso-di-n-propylamine	60.00	59.61	ng	-1	30	
Hexachloroethane	60.00	55.21	ng	-8	30	
Nitrobenzene	60.00	53.66	ng	-11	30	
Isophorone	60.00	57.21	ng	-5	30	
2-Nitrophenol	60.00	57.68	ng	-4	20	
2,4-Dimethylphenol	60.00	63.49	ng	6	30	
bis(2-Chloroethoxy)methane	60.00	54.41	ng	-9	30	
Benzoic acid	60.00	65.79	ng	10	40	
2,4-Dichlorophenol	60.00	56.39	ng	-6	20	
1,2,4-Trichlorobenzene	60.00	54.14	ng	-10	30	
Naphthalene	60.00	55.02	ng	-8	30	
4-Chloroaniline	60.00	60.58	ng	1	30	
Hexachlorobutadiene	60.00	54.66	ng	-9	20	
4-Chloro-3-methylphenol	60.00	54.73	ng	-9	20	
2-Methylnaphthalene	60.00	56.60	ng	-6	30	
Hexachlorocyclopentadiene	60.00	62.67	ng	4	40	
2,4,6-Trichlorophenol	60.00	54.01	ng	-10	20	
2,4,5-Trichlorophenol	60.00	55.84	ng	-7	30	
2-Chloronaphthalene	60.00	52.93	ng	-12	30	
2-Nitroaniline	60.00	54.95	ng	-8	30	
Dimethylphthalate	60.00	53.93	ng	-10	30	
2,6-Dinitrotoluene	60.00	52.68	ng	-12	30	
Acenaphthylene	60.00	54.63	ng	-9	30	
3-Nitroaniline	60.00	55.50	ng	-7	30	
Acenaphthene	60.00	54.79	ng	-9	20	
2,4-Dinitrophenol	60.00	60.98	ng	2	40	
4-Nitrophenol	60.00	53.92	ng	-10	40	
Dibenzofuran	60.00	56.39	ng	-6	30	
2,4-Dinitrotoluene	60.00	54.05	ng	-10	30	
Diethylphthalate	60.00	55.56	ng	-7	30	
Fluorene	60.00	55.43	ng	-8	30	
4-Chlorophenyl-phenylether	60.00	56.44	ng	-6	40	
4-Nitroaniline	60.00	55.52	ng	-7	30	
4,6-Dinitro-2-methylphenol	60.00	62.72	ng	5	30	
N-Nitrosodiphenylamine	60.00	65.09	ng	8	20	
4-Bromophenyl-phenylether	60.00	55.66	ng	-7	30	
Hexachlorobenzene	60.00	54.96	ng	-8	30	
Pentachlorophenol	60.00	68.32	ng	14	20	
Phenanthrene	60.00	54.86	ng	-9	30	

Analyte	Spiked	Quant	Units	%D	Max	Flags
Anthracene	60.00	56.91	ng	-5	30	
Di-n-butylphthalate	60.00	56.55	ng	-6	30	
Fluoranthene	60.00	54.77	ng	-9	20	
Pyrene	60.00	55.09	ng	-8	30	
Butylbenzylphthalate	60.00	53.16	ng	-11	30	
3,3'-Dichlorobenzidine	60.00	54.15	ng	-10	40	
Benzo(a)anthracene	60.00	50.63	ng	-16	30	
bis(2-Ethylhexyl)phthalate	60.00	54.32	ng	-9	30	
Chrysene	60.00	47.24	ng	**-21**	30	!v-
Di-n-octylphthalate	60.00	52.95	ng	-12	20	
Benzo(b)fluoranthene	60.00	54.59	ng	-9	30	
Benzo(k)fluoranthene	60.00	54.89	ng	-9	30	
Benzo(a)pyrene	60.00	55.72	ng	-7	20	
Indeno(1,2,3-cd)pyrene	60.00	52.98	ng	-12	30	
Dibenz(a,h)anthracene	60.00	42.22	ng	**-30**	30	!v-
Benzo(g,h,i)perylene	60.00	55.04	ng	-8	30	

!=warning -=low bias v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185511 MSBNA Water: EPA 8270C

Inst : MSBNA04
Calnum : 536108715001
Units : ng

Name : 6PTBNA4
Date : 16-MAR-2006 13:15
X Axis : R

Reviewer: AMK
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	wcg03	536108715003	2ug/mL	16-MAR-2006 13:15	S2578
L2	wcg04	536108715004	5ug/mL	16-MAR-2006 14:00	S2579
L3	wcg05	536108715005	10ug/mL	16-MAR-2006 14:45	S2580
L4	wcg06	536108715006	20ug/mL	16-MAR-2006 15:30	S2581
L5	wcg07	536108715007	50ug/mL	16-MAR-2006 16:15	S2582
L6	wcg08	536108715008	80ug/mL	16-MAR-2006 16:59	S2583
L7	wcg09	536108715009	100ug/mL	16-MAR-2006 17:43	S2584
L8	wcg10	536108715010	120ug/mL	16-MAR-2006 18:28	S2585
L9	wcg11	536108715011	160ug/mL	16-MAR-2006 19:14	S2586

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Phenol			2.0605	2.0121	1.9775	1.8688	1.7902	1.7138	1.6530	AVRG		0.53534		1.8680	8	15	0.050	0.99	
bis(2-Chloroethyl)ether		1.4659	1.4626	1.3890	1.3322	1.2028	1.1148	1.0153		AVRG		0.77929		1.2832	14	15	0.050	0.99	
2-Chlorophenol			1.3625	1.4508	1.4423	1.3943	1.3912	1.3864	1.3818	AVRG		0.71361		1.4013	2	15	0.050	0.99	
1,3-Dichlorobenzene			1.6760	1.6523	1.6076	1.5105	1.4794	1.4185	1.3670	AVRG		0.65352		1.5302	8	15	0.050	0.99	
1,4-Dichlorobenzene			1.5747	1.5441	1.5382	1.4575	1.4068	1.3295	1.2653	AVRG		0.69196		1.4452	8	15	0.050	0.99	
Benzyl alcohol			1.0650	1.1388	1.1548	1.1156	1.1285	1.1285	1.1169	AVRG		0.89193		1.1212	3	15	0.050	0.99	
1,2-Dichlorobenzene			1.5784	1.5997	1.4853	1.4258	1.3915	1.3115	1.2329	AVRG		0.69824		1.4322	9	15	0.050	0.99	
2-Methylphenol			1.2808	1.3289	1.2523	1.1982	1.1817	1.1172	1.0858	AVRG		0.82891		1.2064	7	15	0.050	0.99	
bis(2-Chloroisopropyl) ether			3.0520	3.0424	2.7667	2.4484	2.1531	1.9481	1.7566	QUAD	8.53343	0.04660	0.001761	2.4525	0.997	15	0.050	0.99	
4-Methylphenol			1.9500	2.0277	1.9665	1.9333m	1.9345	1.9353	1.8982	AVRG		0.51299		1.9494	2	15	0.050	0.99	
N-Nitroso-di-n-propylamine			1.2422	1.2492	1.1434	1.0702	1.0323	0.9994	0.9695	AVRG		0.90835		1.1009	10	15	0.050	0.99	
Hexachloroethane			0.7029	0.7171	0.6719	0.6404	0.6265	0.5825	0.5580	AVRG		1.55580		0.6428	9	15	0.050	0.99	
Nitrobenzene			0.4749	0.4692	0.4363	0.4109	0.3980	0.3720	0.3445	AVRG		2.40899		0.4151	12	15	0.050	0.99	
Isophorone			1.0816	1.0798	1.0084	0.9825m	1.0120	0.9274m	0.8300	AVRG		1.01131		0.9888	9	15	0.050	0.99	
2-Nitrophenol			0.2109	0.2214	0.2210	0.2149	0.2181	0.2043	0.1836	AVRG		4.74812		0.2106	6	15	0.050	0.99	
2,4-Dimethylphenol			0.3521	0.3513	0.3396	0.3088	0.3173	0.2965	0.2803	AVRG		3.11691		0.3208	9	15	0.050	0.99	
bis(2-Chloroethoxy)methane			0.6334	0.6099	0.5658	0.5080	0.4919	0.4382	0.4116	QUAD	2.76439	1.11004	0.019528	0.5227	0.997	15	0.050	0.99	
Benzoic acid					0.0966	0.1613	0.2058	0.2110m	0.2193m	LINR	31.5311	3.56927		0.1788	0.993	15	0.050	0.99	
2,4-Dichlorophenol			0.3427	0.3433	0.3439	0.3308	0.3325	0.3105	0.2913	AVRG		3.05005		0.3279	6	15	0.050	0.99	
1,2,4-Trichlorobenzene			0.3877	0.3891	0.3737	0.3500	0.3339	0.3101	0.2927	AVRG		2.87230		0.3482	11	15	0.050	0.99	
Naphthalene	1.1603	1.1581	1.1393	1.1029	1.0357	0.9293	0.8647	0.8016		AVRG		0.97657		1.0240	14	15	0.050	0.99	
4-Chloroaniline			0.4110	0.4406	0.5000	0.4598	0.4586	0.4338	0.4084	AVRG		2.24922		0.4446	7	15	0.050	0.99	
Hexachlorobutadiene			0.2391	0.2311	0.2266	0.2103	0.1977	0.1878	0.1719	AVRG		4.77964		0.2092	12	15	0.050	0.99	
4-Chloro-3-methylphenol			0.4304	0.4331	0.4047	0.3927	0.3910	0.3637	0.3547	AVRG		2.52667		0.3958	8	15	0.050	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
2-Methylnaphthalene	0.8939	0.8589	0.8372	0.8487	0.7723	0.7025	0.6659	0.5956		AVRG		1.29551		0.7719	14	15	0.050	0.99	
Hexachlorocyclopentadiene			0.1952	0.2303	0.2805	0.2766	0.2584	0.2631	0.2555	AVRG		3.97836		0.2514	12	15	0.050	0.99	
2,4,6-Trichlorophenol			0.3797	0.4099	0.4200	0.4041	0.3922	0.3775	0.3667	AVRG		2.54550		0.3928	5	15	0.050	0.99	
2,4,5-Trichlorophenol			0.3941	0.4360	0.4583	0.4440	0.4253	0.4009	0.3855	AVRG		2.37766		0.4206	7	15	0.050	0.99	
2-Chloronaphthalene			1.3213	1.3310	1.2860	1.1737	1.1017	1.0433	0.9911	AVRG		0.84868		1.1783	12	15	0.050	0.99	
2-Nitroaniline			0.4472	0.4657	0.4409	0.4232	0.4230	0.4072	0.4006	AVRG		2.32729		0.4297	5	15	0.050	0.99	
Dimethylphthalate			1.7151	1.7153	1.6312	1.5219	1.4240	1.3423	1.2968	AVRG		0.65748		1.5210	11	15	0.050	0.99	
2,6-Dinitrotoluene			0.4055	0.4108	0.4041	0.3949	0.3990	0.3868	0.3809	AVRG		2.51622		0.3974	3	15	0.050	0.99	
Acenaphthylene	2.1032	2.0991	2.1018	2.1056	1.9223	1.8099	1.6469	1.5898	1.5156	AVRG		0.53273		1.8771	13	15	0.050	0.99	
3-Nitroaniline			0.3073	0.3252	0.3529	0.3646	0.3710	0.3616	0.3612	AVRG		2.86434		0.3491	7	15	0.050	0.99	
Acenaphthene	1.1835	1.1855	1.1613	1.1570	1.0766	1.0034	0.9290	0.8615	0.8266	AVRG		0.95903		1.0427	14	15	0.050	0.99	
2,4-Dinitrophenol				0.0271	0.1164	0.1670	0.2026	0.2239	0.2278	LINR	24.3210	3.71812		0.1608	0.991	15	0.050	0.99	
4-Nitrophenol			0.1011m	0.1355	0.1706	0.1832	0.1966	0.2015	0.2077	QUAD	5.77787	5.21456	-0.01798	0.1709	0.999	15	0.050	0.99	
Dibenzofuran		1.7972	1.8331	1.7342	1.6421	1.4555	1.2776			AVRG		0.61604		1.6233	13	15	0.050	0.99	
2,4-Dinitrotoluene			0.5164	0.5279	0.5028	0.4550	0.3869			AVRG		2.09279		0.4778	12	15	0.050	0.99	
Diethylphthalate			1.7268	1.6526	1.5201	1.3975	1.2940	1.2287	1.1881	AVRG		0.69944		1.4297	15	15	0.050	0.99	
Fluorene	1.5029	1.4343	1.3694	1.3703	1.2326	1.0962	0.9796	0.9009		QUAD	2.70305	0.35876	0.006499	1.2358	0.998	15	0.050	0.99	
4-Chlorophenyl-phenylether	0.7384	0.7608	0.7736	0.7666	0.7040	0.6117	0.5387	0.4944	0.4600	QUAD	2.10860	0.73257	0.019562	0.6498	0.997	15	0.050	0.99	
4-Nitroaniline			0.2399m	0.2530	0.2970	0.3038	0.3169	0.3078	0.3085	AVRG		3.45354		0.2896	10	15	0.050	0.99	
4,6-Dinitro-2-methylphenol			0.0329m	0.0666	0.1241	0.1477	0.1677	0.1714	0.1717	LINR	12.6629	5.34176		0.1260	0.996	15	0.050	0.99	
N-Nitrosodiphenylamine			0.5773	0.5794	0.5505	0.5071	0.4943	0.4649	0.4329	AVRG		1.94103		0.5152	11	15	0.050	0.99	
4-Bromophenyl-phenylether			0.3276	0.3177	0.3004	0.2702	0.2587	0.2408	0.2336	AVRG		3.59145		0.2784	13	15	0.050	0.99	
Hexachlorobenzene			0.3576	0.3553	0.3286	0.2954	0.2821	0.2568	0.2467	AVRG		3.29808		0.3032	15	15	0.050	0.99	
Pentachlorophenol			0.0796	0.1281	0.1772	0.1876	0.1911	0.1858	0.1830	LINR	4.75402	5.17489		0.1618	0.998	15	0.050	0.99	
Phenanthrene	1.2822	1.2361	1.2575	1.2411	1.1677	1.0477	0.9987	0.9214	0.8898	AVRG		0.89622		1.1158	14	15	0.050	0.99	
Anthracene	1.2466	1.2316	1.2352	1.2291	1.1813	1.0641	1.0309	0.9417	0.9013	AVRG		0.89447		1.1180	12	15	0.050	0.99	
Di-n-butylphthalate			2.0506	1.9913	1.7559	1.5195	1.4013	1.2824	1.2170	QUAD	0.07412	0.40446	0.002201	1.6026	0.997	15	0.050	0.99	
Fluoranthene	1.4487	1.4489	1.4213	1.4142	1.3247	1.2061	1.1532	1.0338	0.9908	AVRG		0.78659		1.2713	14	15	0.050	0.99	
Pyrene	1.9297	1.9853	1.9777	1.9612	1.8715	1.7969	1.8836	1.7892	1.7501	AVRG		0.53112		1.8828	5	15	0.050	0.99	
Butylbenzylphthalate			1.1036	1.1252	1.0734	1.0054	1.0362	0.9737	0.9568	AVRG		0.96229		1.0392	6	15	0.050	0.99	
3,3'-Dichlorobenzidine			0.4211	0.4519	0.5284	0.5235	0.5177	0.4828	0.4451	AVRG		2.07684		0.4815	9	15	0.050	0.99	
Benzo(a)anthracene	1.6686	1.6391	1.5998	1.5464	1.4008	1.2426	1.2395	1.1439		AVRG		0.69682		1.4351	14	15	0.050	0.99	
bis(2-Ethylhexyl)phthalate	1.6915	1.5312	1.5006	1.4350	1.2312	1.0719	1.0733	1.0274		QUAD	-1.1565	0.72534	0.002114	1.3203	0.999	15	0.050	0.99	
Chrysene	1.3161	1.2812	1.2656	1.3051	1.2625	1.2119	1.2193	1.1507	1.1109	AVRG		0.80909		1.2360	6	15	0.050	0.99	
Di-n-octylphthalate			2.6629	2.6482	2.6586	2.7147	2.8630	2.7555	2.7101	AVRG		0.36817		2.7161	3	15	0.050	0.99	
Benzo(b)fluoranthene	1.4232m	1.4495m	1.4505m	1.4017	1.4671	1.4641	1.5926	1.6800	1.6785	AVRG		0.66141		1.5119	7	15	0.050	0.99	
Benzo(k)fluoranthene	1.4666m	1.4514	1.3931	1.4412	1.3723	1.4065	1.4303	1.2906	1.2298	AVRG		0.72105		1.3869	6	15	0.050	0.99	
Benzo(a)pyrene	1.1975	1.2053	1.2044	1.2365	1.2270	1.1869	1.2283	1.1886	1.1707	AVRG		0.82987		1.2050	2	15	0.050	0.99	
Indeno(1,2,3-cd)pyrene	1.0481	1.1289	1.1304	1.1736	1.0262	0.9234	0.9130	0.8911	0.8705	AVRG		0.98843		1.0117	11	15	0.050	0.99	
Dibenz(a,h)anthracene	0.8373	0.8953	0.8928	0.9564	0.8433	0.7694	0.7628	0.7379	0.7183	AVRG		1.21400		0.8237	10	15	0.050	0.99	
Benzo(g,h,i)perylene	0.8389	0.9057	0.8984	0.9137	0.8004	0.7197	0.7273	0.7103	0.6990	AVRG		1.24770		0.8015	11	15	0.050	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
2-Fluorophenol			1.3174	1.3705	1.3888	1.3811	1.4150	1.4285	1.4351	AVRG		0.71895		1.3909	3	15	0.050	0.99	
Phenol-d5			1.8375	1.9298	1.8935	1.8086	1.7950	1.7291	1.6805	AVRG		0.55231		1.8106	5	15	0.050	0.99	
Nitrobenzene-d5			0.4942	0.4878	0.4646	0.4459	0.4424	0.4205	0.3946	AVRG		2.22226		0.4500	8	15	0.050	0.99	
2-Fluorobiphenyl			1.4438	1.4276	1.3553	1.2477	1.1589	1.0665	1.0288	AVRG		0.80196		1.2469	14	15	0.050	0.99	
2,4,6-Tribromophenol			0.2555	0.2802	0.2929	0.2767	0.2606	0.2493	0.2373	AVRG		3.77873		0.2646	7	15	0.050	0.99	
Terphenyl-d14			1.3736	1.3842	1.3204	1.2245	1.2511	1.1776	1.1673	AVRG		0.78663		1.2712	7	15	0.050	0.99	

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m=manual integration

AVRG=Average response factor LINR=Linear regression QUAD=Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

536108715001

BNA04 8270 Calibration

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 8270C

Inst : MSBNA04
Calnum : 536108715001
Units : ng

Name : 6PTBNA4
Date : 16-MAR-2006 13:15
X Axis : R

Inj Vol: 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	wcg03	536108715003	2ug/mL	16-MAR-2006 13:15	S2578
L2	wcg04	536108715004	5ug/mL	16-MAR-2006 14:00	S2579
L3	wcg05	536108715005	10ug/mL	16-MAR-2006 14:45	S2580
L4	wcg06	536108715006	20ug/mL	16-MAR-2006 15:30	S2581
L5	wcg07	536108715007	50ug/mL	16-MAR-2006 16:15	S2582
L6	wcg08	536108715008	80ug/mL	16-MAR-2006 16:59	S2583
L7	wcg09	536108715009	100ug/mL	16-MAR-2006 17:43	S2584
L8	wcg10	536108715010	120ug/mL	16-MAR-2006 18:28	S2585
L9	wcg11	536108715011	160ug/mL	16-MAR-2006 19:14	S2586

ICAL: Benzoic Acid + 2,4-Dinitrophenol y-intercept > 5 -OK for ND samples

ICV: OK except Benzoic ↓ + 2,3,4,6-Tetrachlorophenol ↓ fail SD Aniline ↓; Benzo(a)anthracene ↓ fail method limits

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
N-Nitrosodimethylamine			1.0205m	1.0796	1.0754	1.0360	1.0754	1.0752	1.0752	AVRG		0.94121		1.0625	2	15	0.050	0.99	
Pyridine			1.4808m	1.5728m	1.6522	1.6343	1.6893	1.6997	1.7362	AVRG		0.61054		1.6379	5	15	0.050	0.99	
Phenol			2.0605	2.0121	1.9775	1.8688	1.7902	1.7138	1.6530	AVRG		0.53534		1.8680	8	15	0.050	0.99	
Aniline			0.8275	0.8651	0.8841	0.8099	0.8077	0.7880	0.7737	AVRG		1.21611		0.8223	5	15	0.050	0.99	
bis(2-Chloroethyl)ether		1.4659	1.4626	1.3890	1.3322	1.2028	1.1148	1.0153		AVRG		0.77929		1.2832	14	15	0.050	0.99	
2-Chlorophenol			1.3625	1.4508	1.4423	1.3943	1.3912	1.3864	1.3818	AVRG		0.71361		1.4013	2	15	0.050	0.99	
1,3-Dichlorobenzene			1.6760	1.6523	1.6076	1.5105	1.4794	1.4185	1.3670	AVRG		0.65352		1.5302	8	15	0.050	0.99	
1,4-Dichlorobenzene			1.5747	1.5441	1.5382	1.4575	1.4068	1.3295	1.2653	AVRG		0.69196		1.4452	8	15	0.050	0.99	
Benzyl alcohol			1.0650	1.1388	1.1548	1.1156	1.1285	1.1285	1.1169	AVRG		0.89193		1.1212	3	15	0.050	0.99	
1,2-Dichlorobenzene			1.5784	1.5997	1.4853	1.4258	1.3915	1.3115	1.2329	AVRG		0.69824		1.4322	9	15	0.050	0.99	
2-Methylphenol			1.2808	1.3289	1.2523	1.1982	1.1817	1.1172	1.0858	AVRG		0.82891		1.2064	7	15	0.050	0.99	
bis(2-Chloroisopropyl) ether			3.0520	3.0424	2.7667	2.4484	2.1531	1.9481	1.7566	QUAD	8.53343	0.04660	0.001761	2.4525	0.997	15	0.050	0.99	
4-Methylphenol			1.9500	2.0277	1.9665	1.9333m	1.9345	1.9353	1.8982	AVRG		0.51299		1.9494	2	15	0.050	0.99	
N-Nitroso-di-n-propylamine			1.2422	1.2492	1.1434	1.0702	1.0323	0.9994	0.9695	AVRG		0.90835		1.1009	10	15	0.050	0.99	
Hexachloroethane			0.7029	0.7171	0.6719	0.6404	0.6265	0.5825	0.5580	AVRG		1.55580		0.6428	9	15	0.050	0.99	
Nitrobenzene			0.4749	0.4692	0.4363	0.4109	0.3980	0.3720	0.3445	AVRG		2.40899		0.4151	12	15	0.050	0.99	
Isophorone			1.0816	1.0798	1.0084	0.9825m	1.0120	0.9274m	0.8300	AVRG		1.01131		0.9888	9	15	0.050	0.99	
2-Nitrophenol			0.2109	0.2214	0.2210	0.2149	0.2181	0.2043	0.1836	AVRG		4.74812		0.2106	6	15	0.050	0.99	
2,4-Dimethylphenol			0.3521	0.3513	0.3396	0.3088	0.3173	0.2965	0.2803	AVRG		3.11691		0.3208	9	15	0.050	0.99	
bis(2-Chloroethoxy)methane			0.6334	0.6099	0.5658	0.5080	0.4919	0.4382	0.4116	QUAD	2.76439	1.11004	0.019528	0.5227	0.997	15	0.050	0.99	
Benzoic acid					0.0966	0.1613	0.2058	0.2110m	0.2193m	LINR	31.5311	3.56927		0.1788	0.993	15	0.050	0.99	
2,4-Dichlorophenol			0.3427	0.3433	0.3439	0.3308	0.3325	0.3105	0.2913	AVRG		3.05005		0.3279	6	15	0.050	0.99	
1,2,4-Trichlorobenzene			0.3877	0.3891	0.3737	0.3500	0.3339	0.3101	0.2927	AVRG		2.87230		0.3482	11	15	0.050	0.99	
Naphthalene	1.1603	1.1581	1.1393	1.1029	1.0357	0.9293	0.8647	0.8016		AVRG		0.97657		1.0240	14	15	0.050	0.99	

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03/21/06

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
4-Chloroaniline			0.4110	0.4406	0.5000	0.4598	0.4586	0.4338	0.4084	AVRG		2.24922		0.4446	7	15	0.050	0.99	
Hexachlorobutadiene			0.2391	0.2311	0.2266	0.2103	0.1977	0.1878	0.1719	AVRG		4.77964		0.2092	12	15	0.050	0.99	
4-Chloro-3-methylphenol			0.4304	0.4331	0.4047	0.3927	0.3910	0.3637	0.3547	AVRG		2.52667		0.3958	8	15	0.050	0.99	
2-Methylnaphthalene	0.8939	0.8589	0.8372	0.8487	0.7723	0.7025	0.6659	0.5956		AVRG		1.29551		0.7719	14	15	0.050	0.99	
Resorcinol			0.2026	0.1962	0.2536	0.2900	0.3158	0.3060		LINR	7.38498	3.04824		0.2607	0.995	15	0.050	0.99	
Hexachlorocyclopentadiene			0.1952	0.2303	0.2805	0.2766	0.2584	0.2631	0.2555	AVRG		3.97836		0.2514	12	15	0.050	0.99	
2,4,6-Trichlorophenol			0.3797	0.4099	0.4200	0.4041	0.3922	0.3775	0.3667	AVRG		2.54550		0.3928	5	15	0.050	0.99	
2,4,5-Trichlorophenol			0.3941	0.4360	0.4583	0.4440	0.4253	0.4009	0.3855	AVRG		2.37766		0.4206	7	15	0.050	0.99	
2-Chloronaphthalene			1.3213	1.3310	1.2860	1.1737	1.1017	1.0433	0.9911	AVRG		0.84868		1.1783	12	15	0.050	0.99	
2-Nitroaniline			0.4472	0.4657	0.4409	0.4232	0.4230	0.4072	0.4006	AVRG		2.32729		0.4297	5	15	0.050	0.99	
Dimethylphthalate			1.7151	1.7153	1.6312	1.5219	1.4240	1.3423	1.2968	AVRG		0.65748		1.5210	11	15	0.050	0.99	
2,6-Dinitrotoluene			0.4055	0.4108	0.4041	0.3949	0.3990	0.3868	0.3809	AVRG		2.51622		0.3974	3	15	0.050	0.99	
Acenaphthylene	2.1032	2.0991	2.1018	2.1056	1.9223	1.8099	1.6469	1.5898	1.5156	AVRG		0.53273		1.8771	13	15	0.050	0.99	
3-Nitroaniline			0.3073	0.3252	0.3529	0.3646	0.3710	0.3616	0.3612	AVRG		2.86434		0.3491	7	15	0.050	0.99	
Acenaphthene	1.1835	1.1855	1.1613	1.1570	1.0766	1.0034	0.9290	0.8615	0.8266	AVRG		0.95903		1.0427	14	15	0.050	0.99	
2,4-Dinitrophenol				0.0271	0.1164	0.1670	0.2026	0.2239	0.2278	LINR	24.3210	3.71812		0.1608	0.991	15	0.050	0.99	
4-Nitrophenol			0.1011m	0.1355	0.1706	0.1832	0.1966	0.2015	0.2077	QUAD	5.77787	5.21456	-0.01798	0.1709	0.999	15	0.050	0.99	
Dibenzofuran		1.7972	1.8331	1.7342	1.6421	1.4555	1.2776			AVRG		0.61604		1.6233	13	15	0.050	0.99	
2,4-Dinitrotoluene			0.5164	0.5279	0.5028	0.4550	0.3869			AVRG		2.09279		0.4778	12	15	0.050	0.99	
2,3,4,6-Tetrachlorophenol			0.2625	0.3315	0.3695	0.3609	0.3592	0.3453	0.3369	AVRG		2.95879		0.3380	11	15	0.050	0.99	
Diethylphthalate			1.7268	1.6526	1.5201	1.3975	1.2940	1.2287	1.1881	AVRG		0.69944		1.4297	15	15	0.050	0.99	
Fluorene	1.5029	1.4343	1.3694	1.3703	1.2326	1.0962	0.9796	0.9009		QUAD	2.70305	0.35876	0.006499	1.2358	0.998	15	0.050	0.99	
4-Chlorophenyl-phenylether	0.7384	0.7608	0.7736	0.7666	0.7040	0.6117	0.5387	0.4944	0.4600	QUAD	2.10860	0.73257	0.019562	0.6498	0.997	15	0.050	0.99	
4-Nitroaniline			0.2399m	0.2530	0.2970	0.3038	0.3169	0.3078	0.3085	AVRG		3.45354		0.2896	10	15	0.050	0.99	
4,6-Dinitro-2-methylphenol			0.0329m	0.0666	0.1241	0.1477	0.1677	0.1714	0.1717	LINR	12.6629	5.34176		0.1260	0.996	15	0.050	0.99	
N-Nitrosodiphenylamine			0.5773	0.5794	0.5505	0.5071	0.4943	0.4649	0.4329	AVRG		1.94103		0.5152	11	15	0.050	0.99	
Azobenzene		1.2671	1.2018	1.1800	1.0529	0.9036	0.8387			QUAD	2.21147	0.52620	0.007594	1.0740	1.000	15	0.050	0.99	
4-Bromophenyl-phenylether			0.3276	0.3177	0.3004	0.2702	0.2587	0.2408	0.2336	AVRG		3.59145		0.2784	13	15	0.050	0.99	
Hexachlorobenzene			0.3576	0.3553	0.3286	0.2954	0.2821	0.2568	0.2467	AVRG		3.29808		0.3032	15	15	0.050	0.99	
Pentachlorophenol			0.0796	0.1281	0.1772	0.1876	0.1911	0.1858	0.1830	LINR	4.75402	5.17489		0.1618	0.998	15	0.050	0.99	
Phenanthrene	1.2822	1.2361	1.2575	1.2411	1.1677	1.0477	0.9987	0.9214	0.8898	AVRG		0.89622		1.1158	14	15	0.050	0.99	
Anthracene	1.2466	1.2316	1.2352	1.2291	1.1813	1.0641	1.0309	0.9417	0.9013	AVRG		0.89447		1.1180	12	15	0.050	0.99	
Carbazole			0.9706	0.9845	1.0070	0.9443	0.9509	0.8949	0.8533	AVRG		1.05973		0.9436	6	15	0.050	0.99	
Di-n-butylphthalate			2.0506	1.9913	1.7559	1.5195	1.4013	1.2824	1.2170	QUAD	0.07412	0.40446	0.002201	1.6026	0.997	15	0.050	0.99	
Fluoranthene	1.4487	1.4489	1.4213	1.4142	1.3247	1.2061	1.1532	1.0338	0.9908	AVRG		0.78659		1.2713	14	15	0.050	0.99	
Benzidine			0.0484	0.0969	0.2226	0.2006	0.2168	0.2235	0.2144	LINR	7.79809	4.31796		0.1748	0.995	15	0.050	0.99	
Pyrene	1.9297	1.9853	1.9777	1.9612	1.8715	1.7969	1.8836	1.7892	1.7501	AVRG		0.53112		1.8828	5	15	0.050	0.99	
Butylbenzylphthalate			1.1036	1.1252	1.0734	1.0054	1.0362	0.9737	0.9568	AVRG		0.96229		1.0392	6	15	0.050	0.99	
3,3'-Dichlorobenzidine			0.4211	0.4519	0.5284	0.5235	0.5177	0.4828	0.4451	AVRG		2.07684		0.4815	9	15	0.050	0.99	
Benzo(a)anthracene	1.6686	1.6391	1.5998	1.5464	1.4008	1.2426	1.2395	1.1439		AVRG		0.69682		1.4351	14	15	0.050	0.99	
bis(2-Ethylhexyl)phthalate	1.6915	1.5312	1.5006	1.4350	1.2312	1.0719	1.0733	1.0274		QUAD	-1.1565	0.72534	0.002114	1.3203	0.999	15	0.050	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Chrysene	1.3161	1.2812	1.2656	1.3051	1.2625	1.2119	1.2193	1.1507	1.1109	AVRG		0.80909		1.2360	6	15	0.050	0.99	
Di-n-octylphthalate			2.6629	2.6482	2.6586	2.7147	2.8630	2.7555	2.7101	AVRG		0.36817		2.7161	3	15	0.050	0.99	
Benzo(b)fluoranthene	1.4232m	1.4495m	1.4505m	1.4017	1.4671	1.4641	1.5926	1.6800	1.6785	AVRG		0.66141		1.5119	7	15	0.050	0.99	
Benzo(k)fluoranthene	1.4666m	1.4514	1.3931	1.4412	1.3723	1.4065	1.4303	1.2906	1.2298	AVRG		0.72105		1.3869	6	15	0.050	0.99	
Benzo(a)pyrene	1.1975	1.2053	1.2044	1.2365	1.2270	1.1869	1.2283	1.1886	1.1707	AVRG		0.82987		1.2050	2	15	0.050	0.99	
Indeno(1,2,3-cd)pyrene	1.0481	1.1289	1.1304	1.1736	1.0262	0.9234	0.9130	0.8911	0.8705	AVRG		0.98843		1.0117	11	15	0.050	0.99	
Dibenz(a,h)anthracene	0.8373	0.8953	0.8928	0.9564	0.8433	0.7694	0.7628	0.7379	0.7183	AVRG		1.21400		0.8237	10	15	0.050	0.99	
Benzo(g,h,i)perylene	0.8389	0.9057	0.8984	0.9137	0.8004	0.7197	0.7273	0.7103	0.6990	AVRG		1.24770		0.8015	11	15	0.050	0.99	
2-Fluorophenol			1.3174	1.3705	1.3888	1.3811	1.4150	1.4285	1.4351	AVRG		0.71895		1.3909	3	15	0.050	0.99	
Phenol-d5			1.8375	1.9298	1.8935	1.8086	1.7950	1.7291	1.6805	AVRG		0.55231		1.8106	5	15	0.050	0.99	
Nitrobenzene-d5			0.4942	0.4878	0.4646	0.4459	0.4424	0.4205	0.3946	AVRG		2.22226		0.4500	8	15	0.050	0.99	
2-Fluorobiphenyl			1.4438	1.4276	1.3553	1.2477	1.1589	1.0665	1.0288	AVRG		0.80196		1.2469	14	15	0.050	0.99	
2,4,6-Tribromophenol			0.2555	0.2802	0.2929	0.2767	0.2606	0.2493	0.2373	AVRG		3.77873		0.2646	7	15	0.050	0.99	
Terphenyl-d14			1.3736	1.3842	1.3204	1.2245	1.2511	1.1776	1.1673	AVRG		0.78663		1.2712	7	15	0.050	0.99	

361

m=manual integration

AVRG=Average response factor LINR=Linear regression QUAD=Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

536108715001

Target Software Initial Calibration Summary Sent to LIMS: 6PTBNA4

Calibration 536108715001 6PTBNA4 created.

No problems detected.

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8270C

Inst : MSBNA04 IDF : 1.0
Seqnum : 536110111003 File : wch03 Time : 17-MAR-2006 12:40
Cal : 536108715001 Caldate: 16-MAR-2006
Standards: S1959

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
N-Nitrosodimethylamine	1.0625	1.0309	80.00	77.62	ng	-3	30	
Pyridine	1.6379	1.5800	80.00	77.17	ng	-4	30	
Phenol	1.8680	1.8515	80.00	79.30	ng	-1	20	
Aniline	0.8223	0.6022	80.00	58.59	ng	-27	30	!v-
bis(2-Chloroethyl)ether	1.2832	1.1900	80.00	74.19	ng	-7	30	
2-Chlorophenol	1.4013	1.2810	80.00	73.13	ng	-9	30	
1,3-Dichlorobenzene	1.5302	1.3825	80.00	72.28	ng	-10	30	
1,4-Dichlorobenzene	1.4452	1.3425	80.00	74.32	ng	-7	20	
Benzyl alcohol	1.1212	1.0449	80.00	74.56	ng	-7	30	
1,2-Dichlorobenzene	1.4322	1.2349	80.00	68.98	ng	-14	30	
2-Methylphenol	1.2064	1.1067	80.00	73.39	ng	-8	30	
bis(2-Chloroisopropyl) ether	2.4525	2.3271	80.00	78.24	ng	-2	30	
4-Methylphenol	1.9494	1.8152	80.00	74.49	ng	-7	30	
N-Nitroso-di-n-propylamine	1.1009	1.0835	80.00	78.73	ng	-2	30	
Hexachloroethane	0.6428	0.5986	80.00	74.51	ng	-7	30	
Nitrobenzene	0.4151	0.3528	80.00	67.98	ng	-15	30	
Isophorone	0.9888	0.8516	80.00	68.90	ng	-14	30	m
2-Nitrophenol	0.2106	0.1935	80.00	73.51	ng	-8	20	
2,4-Dimethylphenol	0.3208	0.2889	80.00	72.03	ng	-10	30	
bis(2-Chloroethoxy)methane	0.5227	0.4514	80.00	68.32	ng	-15	30	
Benzoic acid	0.1788	0.1708	80.00	80.29	ng	0	40	m
2,4-Dichlorophenol	0.3279	0.3005	80.00	73.33	ng	-8	20	
1,2,4-Trichlorobenzene	0.3482	0.3035	80.00	69.74	ng	-13	30	
Naphthalene	1.0240	0.8459	80.00	66.08	ng	-17	30	
4-Chloroaniline	0.4446	0.3805	80.00	68.47	ng	-14	30	
Hexachlorobutadiene	0.2092	0.1786	80.00	68.28	ng	-15	20	
4-Chloro-3-methylphenol	0.3958	0.3430	80.00	69.33	ng	-13	20	
2-Methylnaphthalene	0.7719	0.6251	80.00	64.79	ng	-19	30	
Hexachlorocyclopentadiene	0.2514	0.2616	80.00	83.26	ng	4	40	
2,4,6-Trichlorophenol	0.3928	0.3733	80.00	76.02	ng	-5	20	
2,4,5-Trichlorophenol	0.4206	0.4154	80.00	79.01	ng	-1	30	
2-Chloronaphthalene	1.1783	1.0693	80.00	72.60	ng	-9	30	
2-Nitroaniline	0.4297	0.4091	80.00	76.17	ng	-5	30	
Dimethylphthalate	1.5210	1.4562	80.00	76.59	ng	-4	30	
2,6-Dinitrotoluene	0.3974	0.3510	80.00	70.66	ng	-12	30	
Acenaphthylene	1.8771	1.6846	80.00	71.79	ng	-10	30	
3-Nitroaniline	0.3491	0.3450	80.00	79.04	ng	-1	30	
Acenaphthene	1.0427	0.9460	80.00	72.58	ng	-9	20	
2,4-Dinitrophenol	0.1608	0.1609	80.00	72.18	ng	-10	40	
4-Nitrophenol	0.1709	0.1699	80.00	73.33	ng	-8	40	
Dibenzofuran	1.6233	1.4346	80.00	70.70	ng	-12	30	
2,4-Dinitrotoluene	0.4778	0.4405	80.00	73.76	ng	-8	30	
Diethylphthalate	1.4297	1.3473	80.00	75.39	ng	-6	30	
Fluorene	1.2358	1.0477	80.00	78.44	ng	-2	30	
4-Chlorophenyl-phenylether	0.6498	0.5755	80.00	77.30	ng	-3	40	
4-Nitroaniline	0.2896	0.2964	80.00	81.88	ng	2	30	
4,6-Dinitro-2-methylphenol	0.1260	0.1536	80.00	78.28	ng	-2	30	
N-Nitrosodiphenylamine	0.5152	0.5228	80.00	81.18	ng	1	20	
Azobenzene	1.0740	0.7972	80.00	66.65	ng	-17	30	

3/24/07

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
4-Bromophenyl-phenylether	0.2784	0.2418	80.00	69.46	ng	-13	30	
Hexachlorobenzene	0.3032	0.2599	80.00	68.59	ng	-14	30	
Pentachlorophenol	0.1618	0.1607	80.00	71.27	ng	-11	20	
Phenanthrene	1.1158	0.9312	80.00	66.76	ng	-17	30	
Anthracene	1.1180	0.9505	80.00	68.02	ng	-15	30	
Carbazole	0.9436	0.8272	80.00	70.13	ng	-12	30	
Di-n-butylphthalate	1.6026	1.3683	80.00	70.73	ng	-12	30	
Fluoranthene	1.2713	1.0780	80.00	67.83	ng	-15	20	
Benzidine	0.1748	0.0101	80.00	11.29	ng	-86	40	v- ***
Pyrene	1.8828	1.6240	80.00	69.00	ng	-14	30	
Butylbenzylphthalate	1.0392	0.8990	80.00	69.21	ng	-13	30	
3,3'-Dichlorobenzidine	0.4815	0.4355	80.00	72.36	ng	-10	40	
Benzo(a)anthracene	1.4351	1.0831	80.00	60.38	ng	-25	30	!v-
bis(2-Ethylhexyl)phthalate	1.3203	0.9733	80.00	68.14	ng	-15	30	
Chrysene	1.2360	1.1560	80.00	74.83	ng	-6	30	
Di-n-octylphthalate	2.7161	2.4771	80.00	72.96	ng	-9	20	
Benzo(b)fluoranthene	1.5119	1.4522	80.00	76.84	ng	-4	30	
Benzo(k)fluoranthene	1.3869	1.3638	80.00	78.67	ng	-2	30	
Benzo(a)pyrene	1.2050	1.1420	80.00	75.81	ng	-5	20	
Indeno(1,2,3-cd)pyrene	1.0117	0.9724	80.00	76.89	ng	-4	30	
Dibenz(a,h)anthracene	0.8237	0.8079	80.00	78.47	ng	-2	30	
Benzo(g,h,i)perylene	0.8015	0.7981	80.00	79.66	ng	0	30	

ISTD (CCV wch02)	CCV Area	Area	%Drift	CCV RT	RT	Drift
1,4-Dichlorobenzene-d4	317681	339669	6.92	8.62	8.63	0.01
Naphthalene-d8	1142432	1353643	18.49	11.11	11.12	0.01
Acenaphthene-d10	685176	782511	14.21	15.14	15.15	0.01
Phenanthrene-d10	1080552	1308809	21.12	18.75	18.76	0.01
Chrysene-d12	756700	900766	19.04	25.81	25.82	0.01
Perylene-d12	656723	696329	6.03	29.67	29.69	0.02

08/21/04

!=warning -=low bias m=manual integration v=ICV

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031705.b\WCH03.D
Report Date: 17-Mar-2006 14:55

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\031705.b\WCH03.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 17-MAR-2006 12:40 MS Autotune Date: 12-DEC-2005 12:21
Operator : LLH Inst ID: MSBNA04.i
Smp Info : ICV,S1959
Misc Info : NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\031705.b\6PTBNA4.m
Meth Date : 17-Mar-2006 12:15 tapsvc Quant Type: ISTD
Cal Date : 16-MAR-2006 19:14 Cal File: WCG11.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	1 Pyridine	79	5.258	5.261	(0.610)	1073334	77.1704	77.1704
	2 N-Nitrosodimethylamine	74	5.203	5.206	(0.603)	700333	77.6235	77.6235
$	3 2-Fluorophenol	112	6.661	6.655	(0.772)	983984	83.3089	83.3089
$	4 Phenol-d5	99	7.927	7.912	(0.919)	1266276	82.3601	82.3600
	5 Phenol	94	7.945	7.940	(0.921)	1257808	79.2952	79.2952
	6 Aniline	66	8.083	8.077	(0.937)	409104	58.5883	58.5882(Q)
	7 bis(2-Chloroethyl)ether	63	8.129	8.114	(0.943)	808388	74.1862	74.1861(Q)
	8 2-Chlorophenol	128	8.285	8.270	(0.961)	870249	73.1318	73.1318
	9 1,3-Dichlorobenzene	146	8.542	8.536	(0.990)	939190	72.2792	72.2791
*	10 1,4-Dichlorobenzene-d4	152	8.624	8.619	(1.000)	339669	40.0000	
	11 1,4-Dichlorobenzene	146	8.652	8.655	(1.003)	912027	74.3178	74.3177
	12 1,2-Dichlorobenzene	146	8.936	8.930	(1.036)	838885	68.9784	68.9783
	13 Benzyl alcohol	108	8.835	8.830	(1.024)	709854	74.5596	74.5596
	14 2-Methylphenol	107	8.982	8.976	(1.041)	751833	73.3889	73.3888
	15 bis(2-Chloroisopropyl) ether	45	9.046	9.041	(1.049)	1580868	78.2413	78.2413
	16 4-Methylphenol	107	9.276	9.261	(1.076)	1233144	74.4945	74.4945
	17 N-Nitroso-di-n-propylamine	70	9.331	9.325	(1.082)	736036	78.7332	78.7332
	18 Hexachloroethane	117	9.569	9.563	(1.110)	406658	74.5052	74.5052
$	19 Nitrobenzene-d5	82	9.643	9.637	(0.867)	1087897	71.4394	71.4394(R)
	20 Nitrobenzene	77	9.688	9.683	(0.871)	955034	67.9845	67.9845

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031705.b\WCH03.D
Report Date: 17-Mar-2006 14:55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	21 Isophorone	82	10.156	10.187	(0.913)	2305631	68.9016	68.9015(M)
	22 2-Nitrophenol	139	10.303	10.307	(0.927)	523897	73.5062	73.5061
	23 2,4-Dimethylphenol	122	10.331	10.325	(0.929)	782015	72.0269	72.0269
	24 bis(2-Chloroethoxy)methane	93	10.523	10.518	(0.946)	1222168	68.3242	68.3241
	25 2,4-Dichlorophenol	162	10.798	10.793	(0.971)	813638	73.3320	73.3320
	26 Benzoic acid	122	10.624	10.591	(0.955)	462298	80.2904	80.2904(M)
	27 1,2,4-Trichlorobenzene	180	10.982	10.976	(0.988)	821673	69.7405	69.7404
*	28 Naphthalene-d8	136	11.120	11.114	(1.000)	1353643	40.0000	
	29 Naphthalene	128	11.165	11.160	(1.004)	2289990	66.0832	66.0832
	30 4-Chloroaniline	127	11.257	11.251	(1.012)	1030208	68.4719	68.4719
	31 Hexachlorobutadiene	225	11.395	11.398	(1.025)	483410	68.2758	68.2757
	33 4-Chloro-3-methylphenol	107	12.285	12.279	(1.105)	928576	69.3302	69.3301
	34 2-Methylnaphthalene	142	12.697	12.692	(1.142)	1692408	64.7889	64.7888
	35 Hexachlorocyclopentadiene	237	13.046	13.040	(0.861)	409430	83.2632	83.2631
	36 2,4,6-Trichlorophenol	196	13.330	13.325	(0.880)	584238	76.0208	76.0208
	37 2,4,5-Trichlorophenol	196	13.422	13.416	(0.886)	650085	79.0112	79.0112
$	38 2-Fluorobiphenyl	172	13.523	13.517	(0.893)	1887796	77.3889	77.3889(R)
	39 2-Chloronaphthalene	162	13.835	13.829	(0.913)	1673524	72.6014	72.6014
	40 2-Nitroaniline	65	14.083	14.077	(0.930)	640241	76.1664	76.1664
	41 Dimethylphthalate	163	14.477	14.490	(0.956)	2278952	76.5931	76.5930
	42 2,6-Dinitrotoluene	165	14.642	14.636	(0.967)	549376	70.6623	70.6623
	43 Acenaphthylene	152	14.826	14.811	(0.979)	2636396	71.7935	71.7934
	44 3-Nitroaniline	138	15.073	15.058	(0.995)	539857	79.0448	79.0447
*	45 Acenaphthene-d10	164	15.147	15.141	(1.000)	782511	40.0000	
	46 Acenaphthene	154	15.238	15.233	(1.006)	1480532	72.5807	72.5806
	47 2,4-Dinitrophenol	184	15.303	15.297	(1.010)	251783	72.1751	72.1751
	48 4-Nitrophenol	109	15.440	15.435	(1.019)	265865	73.3252	73.3252
	49 Dibenzofuran	168	15.651	15.646	(1.033)	2245191	70.7016	70.7015
	50 2,4-Dinitrotoluene	165	15.624	15.618	(1.031)	689445	73.7555	73.7554
	52 Diethylphthalate	149	16.174	16.168	(1.068)	2108605	75.3907	75.3906
	53 4-Chlorophenyl-phenylether	204	16.449	16.444	(1.086)	900653	77.2987	77.2986
	54 Fluorene	166	16.477	16.471	(1.088)	1639728	78.4360	78.4360
	55 4-Nitroaniline	138	16.578	16.563	(1.094)	463816	81.8804	81.8803
	56 4,6-Dinitro-2-methylphenol	198	16.615	16.609	(0.886)	401936	78.2812	78.2811
	57 N-Nitrosodiphenylamine	169	16.752	16.737	(0.893)	1368506	81.1827	81.1826
	58 Azobenzene	77	16.844	16.838	(0.898)	2086644	66.6535	66.6535
$	59 2,4,6-Tribromophenol	330	17.064	17.058	(1.127)	413142	79.8023	79.8022
	60 4-Bromophenyl-phenylether	248	17.642	17.636	(0.940)	632851	69.4632	69.4631
	61 Hexachlorobenzene	284	17.835	17.820	(0.951)	680440	68.5858	68.5858
	62 Pentachlorophenol	266	18.293	18.288	(0.975)	420576	71.2705	71.2704
*	63 Phenanthrene-d10	188	18.761	18.746	(1.000)	1308809	40.0000	
	64 Phenanthrene	178	18.825	18.820	(1.003)	2437507	66.7641	66.7641
	65 Anthracene	178	18.954	18.948	(1.010)	2488173	68.0188	68.0188
	66 Carbazole	167	19.339	19.333	(1.031)	2165257	70.1272	70.1272
	67 Di-n-butylphthalate	149	20.156	20.150	(1.074)	3581813	70.7269	70.7269
	68 Fluoranthene	202	21.853	21.838	(1.165)	2821739	67.8346	67.8345
	69 Benzidine	184	22.183	22.168	(0.859)	18232	11.2940	11.2940(Q)
	70 Pyrene	202	22.467	22.452	(0.870)	2925690	69.0037	69.0036
$	71 Terphenyl-d14	244	22.843	22.838	(0.885)	1907944	66.6475	66.6474(R)
	72 Butylbenzylphthalate	149	24.183	24.168	(0.937)	1619613	69.2095	69.2095
	73 bis(2-Ethylhexyl)phthalate	149	25.779	25.773	(0.999)	1753511	69.1093	69.1093
	74 3,3'-Dichlorobenzidine	252	25.706	25.700	(0.996)	784648	72.3644	72.3644
	75 Benzo(a)anthracene	228	25.779	25.773	(0.999)	1951151	60.3756	60.3755
*	76 Chrysene-d12	240	25.816	25.810	(1.000)	900766	40.0000	

3/20/06

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031705.b\WCH03.D
Report Date: 17-Mar-2006 14:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
77 Chrysene	228	25.898	25.893	(1.003)	2082651	74.8276	74.8276
78 Di-n-octylphthalate	149	27.568	27.562	(0.929)	3449741	72.9593	72.9592
79 Benzo(b)fluoranthene	252	28.715	28.709	(0.967)	2022399	76.8397	76.8396
80 Benzo(k)fluoranthene	252	28.797	28.782	(0.970)	1899275	78.6686	78.6686(A)
81 Benzo(a)pyrene	252	29.559	29.544	(0.996)	1590347	75.8136	75.8135
* 82 Perylene-d12	264	29.687	29.672	(1.000)	696329	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	32.182	32.167	(1.084)	1354227	76.8922	76.8922
84 Dibenz(a,h)anthracene	278	32.191	32.186	(1.084)	1125190	78.4673	78.4673
85 Benzo(g,h,i)perylene	276	32.824	32.809	(1.106)	1111414	79.6585	79.6584

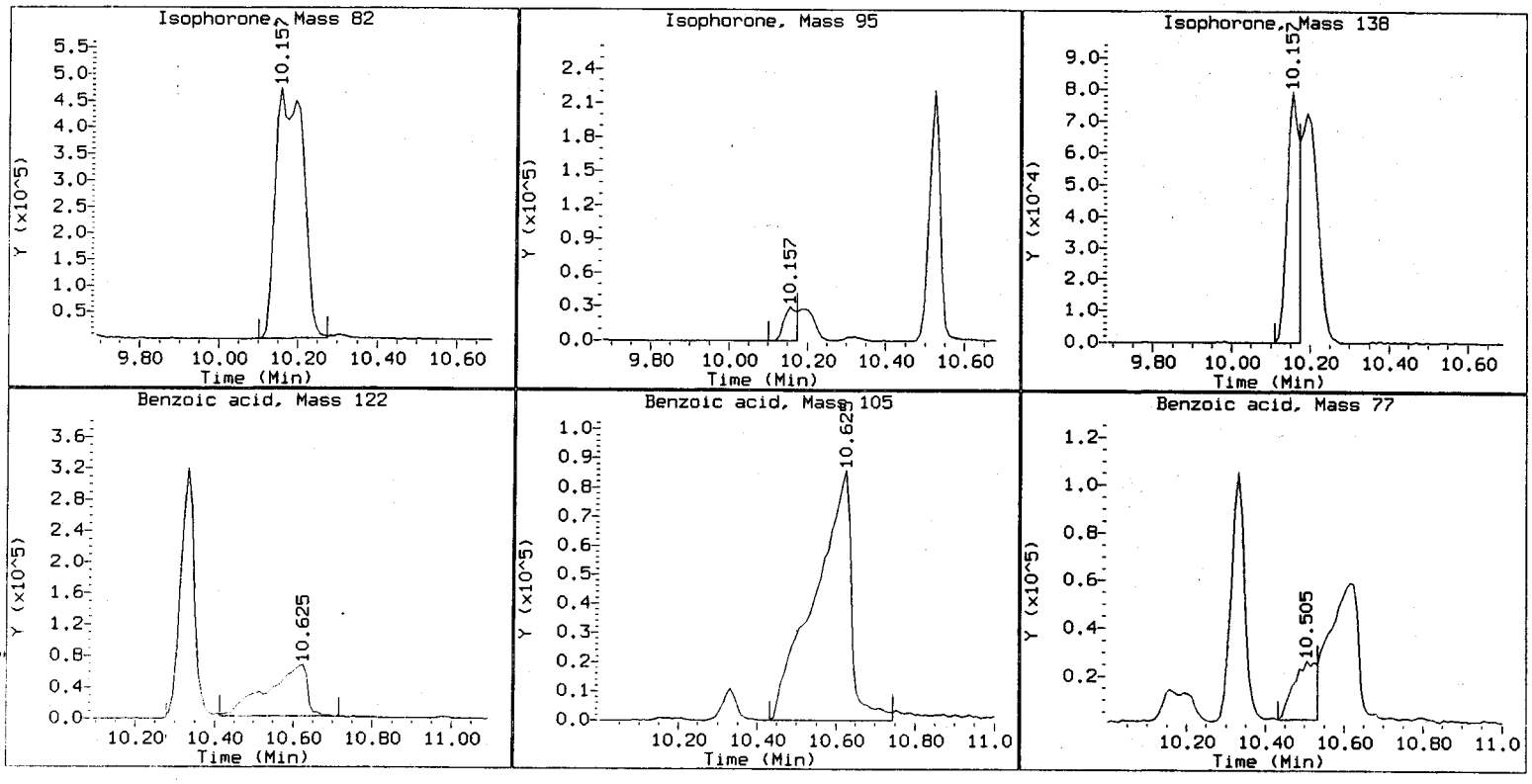
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Signal Manual Integrations Report

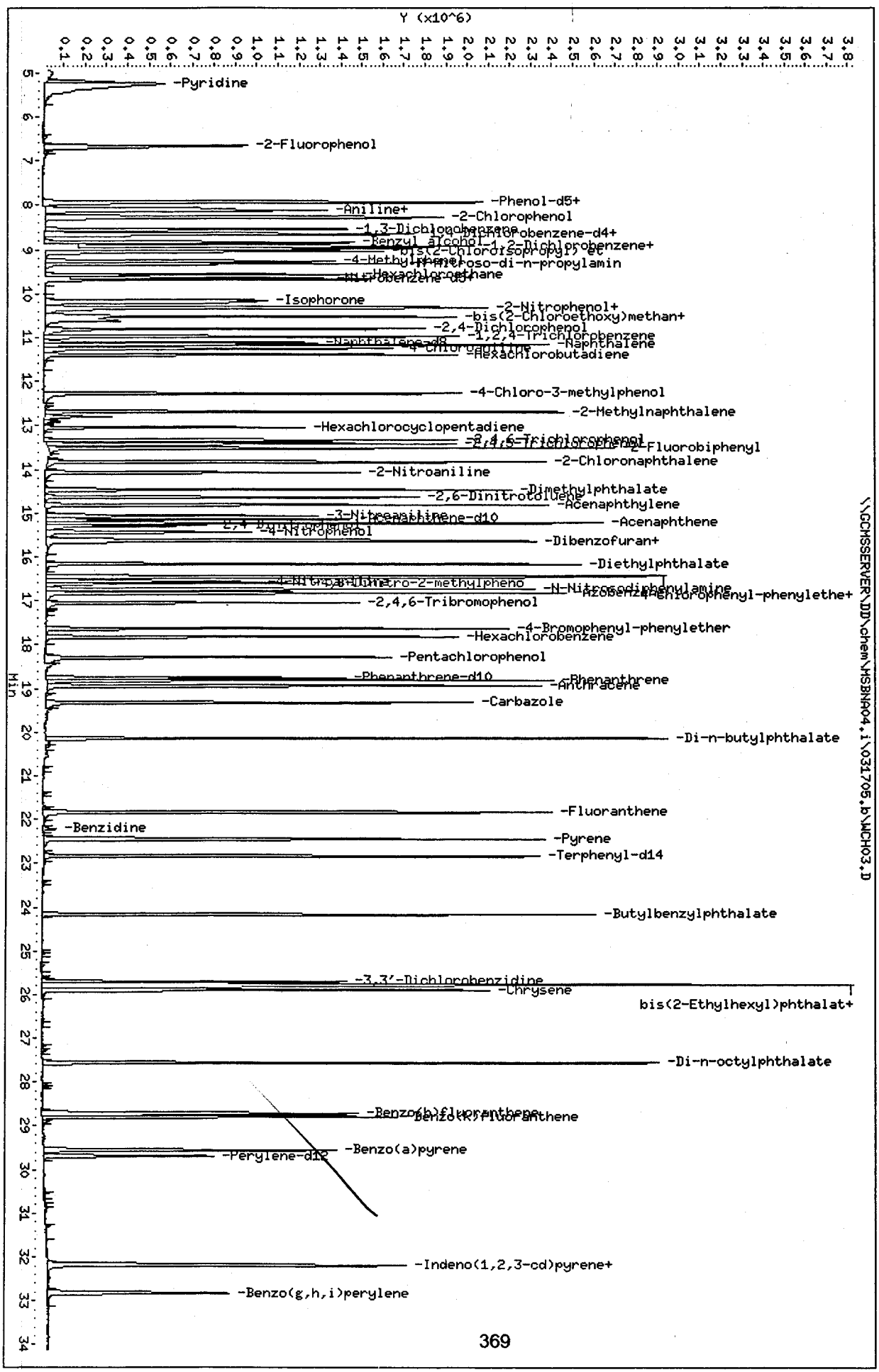
Report Date: 03/17/2006 14:55

Datafile: //GCMSSERVER/DD/chem/MSBNA04.i/031705.b/WCH03.D
Injection Date: 17-MAR-2006 12:40
Lab ID: Client ID:CURTIS&TOMPKINS



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031705.b\WCH03.D
Date : 17-MAR-2006 12:40
Client ID: CURTIS&TOMPKINS
Sample Info: ICV,S1959
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: LLH
Column diameter: 0.25



CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8270C

Inst : MSBNA04 IDF : 1.0
Seqnum : 536110111006 File : wch06 Time : 17-MAR-2006 17:26
Cal : 536108715001 Caldate: 16-MAR-2006
Standards: S1915 (2X), S2027 (200X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Resorcinol	0.2607	0.2769	60.00	58.03	ng	-3	30	m
2,3,4,6-Tetrachlorophenol	0.3380	0.1277	60.00	22.67	ng	-62	30	m v- ***

ISTD (CCV wch02)	CCV Area	Area	%Drift	CCV RT	RT	Drift
Naphthalene-d8	1142432	1300796	13.86	11.11	11.11	0.00
Acenaphthene-d10	685176	819324	19.58	15.14	15.14	0.00

v-spike

03/21/06

-=low bias m=manual integration v=ICV

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031705.b\WCH06.D
Report Date: 20-Mar-2006 09:55

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\031705.b\WCH06.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 17-MAR-2006 17:26 MS Autotune Date: 12-DEC-2005 12:21
Operator : LLH Inst ID: MSBNA04.i
Smp Info : ICV,S1915,2,
Misc Info : NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\031705.b\6PTBNA4.m
Meth Date : 17-Mar-2006 12:15 tapsvc Quant Type: ISTD
Cal Date : 16-MAR-2006 19:14 Cal File: WCG11.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 10 1,4-Dichlorobenzene-d4	152	8.628	8.619	(1.000)	345802	40.0000	
* 28 Naphthalene-d8	136	11.114	11.114	(1.000)	1300796	40.0000	
32 Resorcinol	110	12.031	12.050	(1.083)	540278	58.0278	58.0277(AM)
* 45 Acenaphthene-d10	164	15.141	15.141	(1.000)	819324	40.0000	
46 Acenaphthene	154	15.150	15.233	(1.001)	2544	0.11911	0.1191(a)
49 Dibenzofuran	168	15.921	15.646	(1.051)	40216	1.20951	1.2095(a)
50 2,4-Dinitrotoluene	165	15.141	15.618	(1.000)	88430	9.03502	9.0350(Q)
51 2,3,4,6-Tetrachlorophenol	232	15.921	15.930	(1.051)	156914	22.6663	22.6662(AM)
62 Pentachlorophenol	266	18.297	18.288	(0.976)	1595	5.01091	5.0109(a)
* 63 Phenanthrene-d10	188	18.746	18.746	(1.000)	1285172	40.0000	
75 Benzo(a)anthracene	228	25.792	25.773	(1.000)	2017	0.06312	0.0631(a)
* 76 Chrysene-d12	240	25.792	25.810	(1.000)	890643	40.0000	
77 Chrysene	228	25.792	25.893	(1.000)	2017	0.07329	0.0732(a)
* 82 Perylene-d12	264	29.681	29.672	(1.000)	799684	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031705.b\WCH06.D
Report Date: 20-Mar-2006 09:55

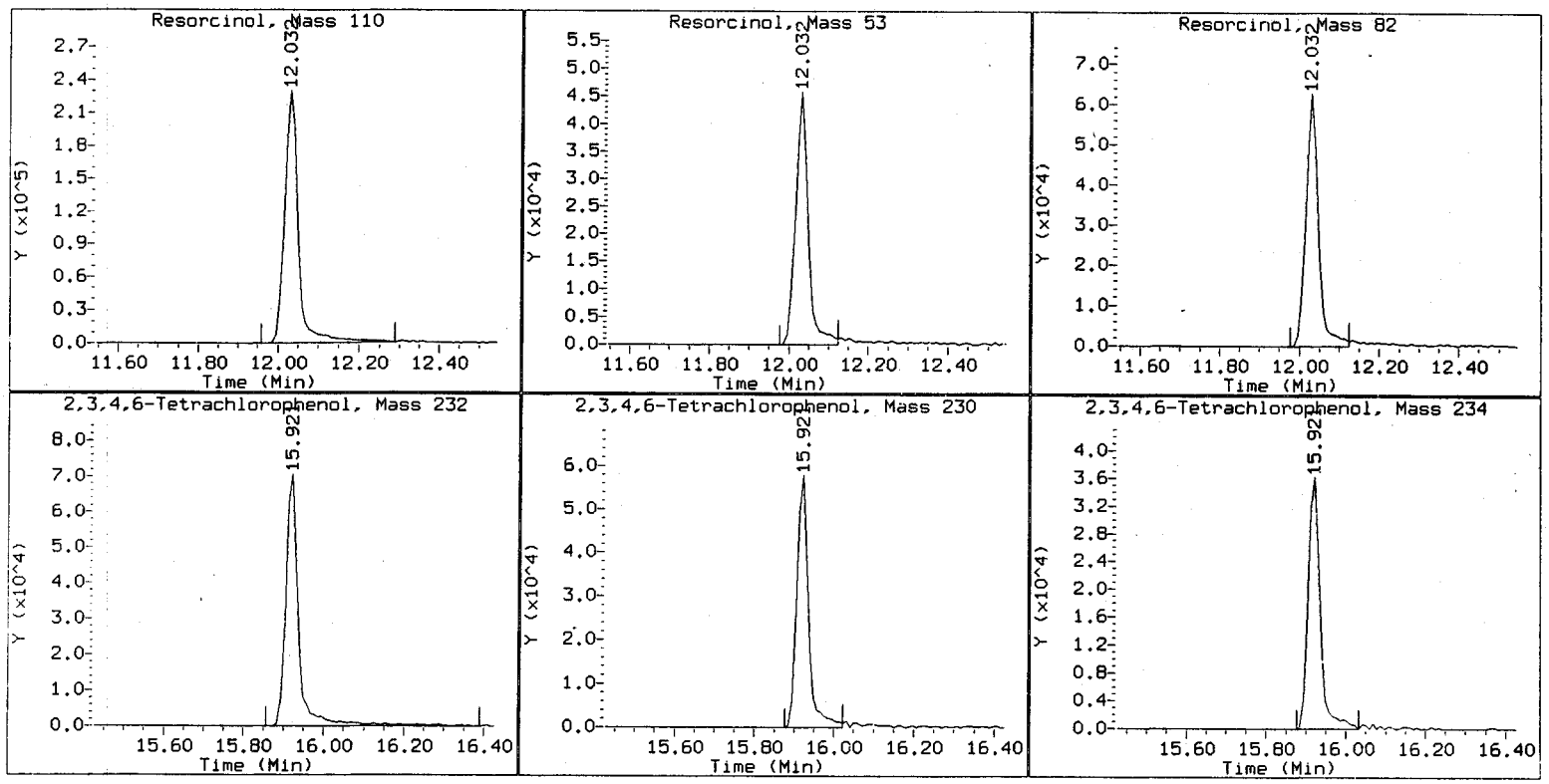
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Signal Manual Integrations Report

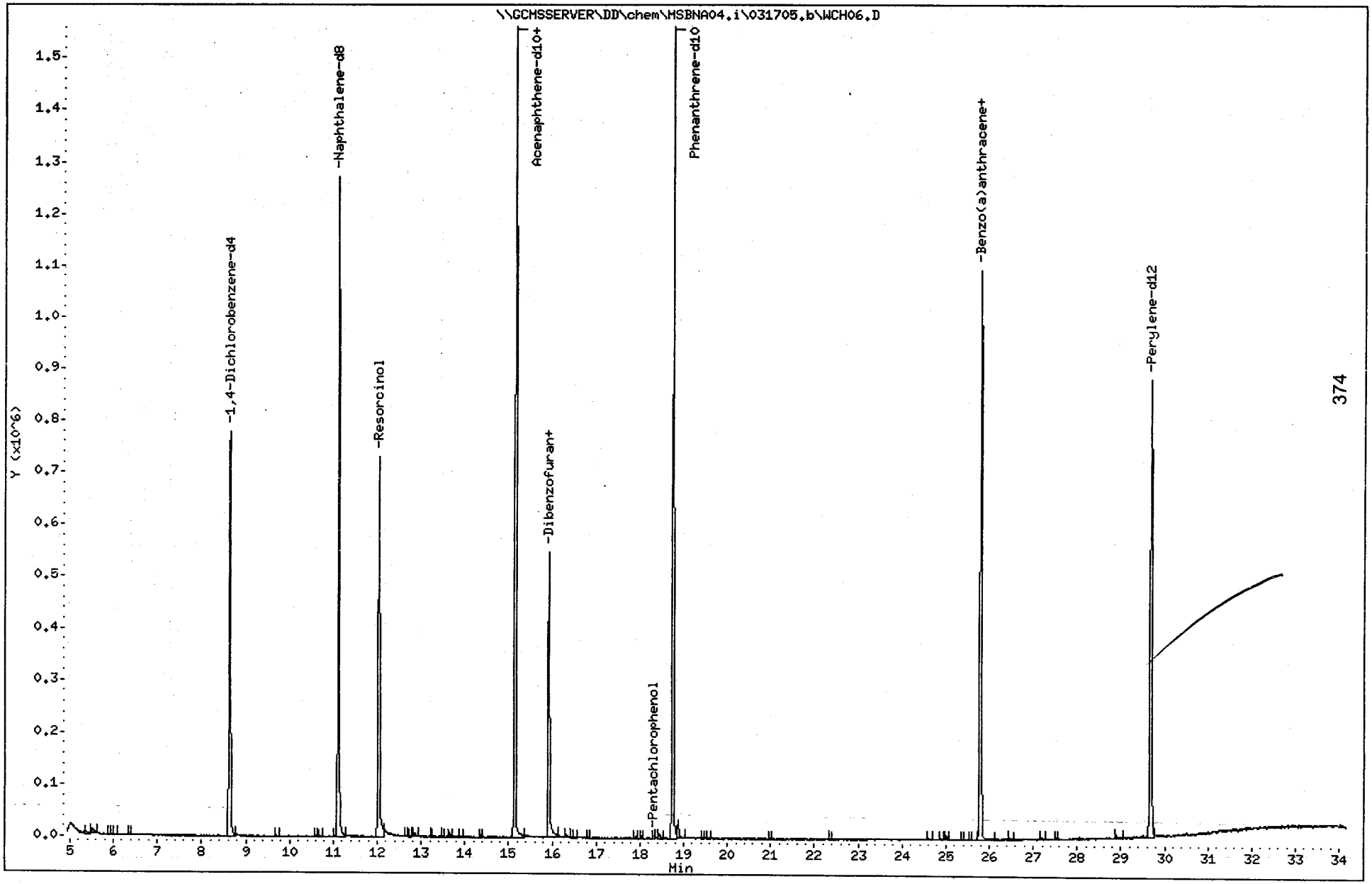
Report Date: 03/20/2006 09:55

Datafile: //GCMSSERVER/DD/chem/MSBNA04.i/031705.b/WCH06.D
Injection Date: 17-MAR-2006 17:26
Lab ID: Client ID:CURTIS&TOMPKINS



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031705.b\WCH06.D
Date : 17-MAR-2006 17:26
Client ID: CURTIS&TOMPKINS
Sample Info: ICV,S1915,2,
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG03.D
Report Date: 17-Mar-2006 10:19

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG03.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 16-MAR-2006 13:15 MS Autotune Date: 12-DEC-2005 12:21
Operator : LLH Inst ID: MSBNA04.i
Smp Info : ICAL,S2578
Misc Info : 2ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\6PTBNA4.m
Meth Date : 17-Mar-2006 10:19 target Quant Type: ISTD
Cal Date : 16-MAR-2006 13:15 Cal File: WCG03.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	5.314	5.258	(0.617)	6401	2.00000	0.6264(a)
2 N-Nitrosodimethylamine	74	5.204	5.203	(0.604)	12296	2.00000	1.8551(aQ)
$ 3 2-Fluorophenol	112	6.663	6.653	(0.773)	15985	2.00000	1.8422(a)
$ 4 Phenol-d5	99	7.901	7.909	(0.917)	22716	2.00000	2.0111(a)
5 Phenol	94	7.929	7.928	(0.920)	25275	2.00000	2.1689(a)
6 Aniline	66	8.066	8.064	(0.936)	9241	2.00000	1.8014(aQ)
7 bis(2-Chloroethyl)ether	63	8.112	8.111	(0.941)	18434	2.00000	2.3027(aQ)
8 2-Chlorophenol	128	8.268	8.266	(0.960)	16658	2.00000	1.9055(a)
9 1,3-Dichlorobenzene	146	8.534	8.532	(0.990)	20602	2.00000	2.1582(a)
* 10 1,4-Dichlorobenzene-d4	152	8.617	8.616	(1.000)	249534	40.0000	
11 1,4-Dichlorobenzene	146	8.653	8.651	(1.004)	20588	2.00000	2.2836(a)
12 1,2-Dichlorobenzene	146	8.928	8.928	(1.036)	20226	2.00000	2.2638(a)
13 Benzyl alcohol	108	8.818	8.818	(1.023)	11813	2.00000	1.6889(a)
14 2-Methylphenol	107	8.974	8.973	(1.042)	16566	2.00000	2.2011(a)
15 bis(2-Chloroisopropyl) ether	45	9.029	9.029	(1.048)	41753	2.00000	8.9241
16 4-Methylphenol	107	9.240	9.258	(1.072)	22974	2.00000	1.8891(a)
17 N-Nitroso-di-n-propylamine	70	9.286	9.313	(1.078)	16358	2.00000	2.3818(a)
18 Hexachloroethane	117	9.552	9.561	(1.109)	8572	2.00000	2.1377(aQ)
$ 19 Nitrobenzene-d5	82	9.635	9.634	(0.868)	24065	2.00000	2.2680(a)
20 Nitrobenzene	77	9.672	9.671	(0.871)	23127	2.00000	2.3628(a)

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG03.D
Report Date: 17-Mar-2006 10:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	10.112	10.139	(0.911)	49434	2.00000	2.1202(a)
	22 2-Nitrophenol	139	10.314	10.295	(0.929)	9923	2.00000	1.9982(aQ)
	23 2,4-Dimethylphenol	122	10.295	10.313	(0.927)	16313	2.00000	2.1564(a)
	24 bis(2-Chloroethoxy)methane	93	10.497	10.515	(0.945)	28975	2.00000	4.1579(a)
	25 2,4-Dichlorophenol	162	10.782	10.781	(0.971)	14080	2.00000	1.8213(a)
	26 Benzoic acid	122	10.295	10.533	(0.927)	16313	2.00000	34.0004(Q)
	27 1,2,4-Trichlorobenzene	180	10.965	10.973	(0.988)	19351	2.00000	2.3572(a)
*	28 Naphthalene-d8	136	11.103	11.111	(1.000)	943150	40.0000	
	29 Naphthalene	128	11.148	11.157	(1.004)	54719	2.00000	2.2663(a)
	30 4-Chloroaniline	127	11.249	11.239	(1.013)	17874	2.00000	1.7050(a)
	31 Hexachlorobutadiene	225	11.387	11.395	(1.026)	11486	2.00000	2.3283(a)
	33 4-Chloro-3-methylphenol	107	12.268	12.276	(1.105)	19131	2.00000	2.0500(a)
	34 2-Methylnaphthalene	142	12.680	12.680	(1.142)	42156	2.00000	2.3162(a)
	35 Hexachlorocyclopentadiene	237	13.038	13.037	(0.862)	3381	2.00000	0.8934(a)
	36 2,4,6-Trichlorophenol	196	13.323	13.322	(0.881)	8254	2.00000	1.3955(aQ)
	37 2,4,5-Trichlorophenol	196	13.405	13.404	(0.886)	8866	2.00000	1.4001(aQ)
$	38 2-Fluorobiphenyl	172	13.497	13.514	(0.892)	45811	2.00000	2.4401(a)
	39 2-Chloronaphthalene	162	13.809	13.817	(0.913)	38779	2.00000	2.1859(a)
	40 2-Nitroaniline	65	14.047	14.065	(0.928)	14215	2.00000	2.1973(a)
	41 Dimethylphthalate	163	14.433	14.469	(0.954)	55404	2.00000	2.4194(a)
	42 2,6-Dinitrotoluene	165	14.598	14.624	(0.965)	11557	2.00000	1.9314(a)
	43 Acenaphthylene	152	14.790	14.808	(0.978)	63330	2.00000	2.2408(a)
	44 3-Nitroaniline	138	15.029	15.046	(0.993)	9430	2.00000	1.7940(aQ)
*	45 Acenaphthene-d10	164	15.130	15.138	(1.000)	602230	40.0000	
	46 Acenaphthene	154	15.203	15.230	(1.005)	35638	2.00000	2.2700(a)
	49 Dibenzofuran	168	15.616	15.634	(1.032)	54969	2.00000	2.2491(a)
	50 2,4-Dinitrotoluene	165	15.570	15.606	(1.029)	15227	2.00000	2.1165(a)
	52 Diethylphthalate	149	16.121	16.155	(1.065)	54262	2.00000	2.5208(a)
	53 4-Chlorophenyl-phenylether	204	16.423	16.440	(1.085)	22234	2.00000	3.2331(a)
	54 Fluorene	166	16.442	16.468	(1.087)	45256	2.00000	3.8401(a)
	55 4-Nitroaniline	138	16.497	16.542	(1.090)	6258	2.00000	1.4354(aQ)
	57 N-Nitrosodiphenylamine	169	16.699	16.734	(0.891)	27232	2.00000	2.2634(a)
	58 Azobenzene	77	16.799	16.826	(0.897)	61392	2.00000	3.6472(a)
$	59 2,4,6-Tribromophenol	330	17.029	17.046	(1.125)	5438	2.00000	1.3648(aQ)
	60 4-Bromophenyl-phenylether	248	17.616	17.633	(0.940)	15209	2.00000	2.3389(a)
	61 Hexachlorobenzene	284	17.790	17.817	(0.950)	18104	2.00000	2.5567(a)
*	63 Phenanthrene-d10	188	18.735	18.753	(1.000)	934131	40.0000	
	64 Phenanthrene	178	18.790	18.817	(1.003)	59887	2.00000	2.2982(a)
	65 Anthracene	178	18.909	18.936	(1.009)	58223	2.00000	2.2300(a)
	66 Carbazole	167	19.304	19.321	(1.030)	47822	2.00000	2.1700(a)
	67 Di-n-butylphthalate	149	20.120	20.138	(1.074)	98928	2.00000	1.8269(a)
	68 Fluoranthene	202	21.808	21.835	(1.164)	67664	2.00000	2.2790(a)
	69 Benzidine	184	22.175	22.165	(0.860)	6226	2.00000	9.3775
	70 Pyrene	202	22.414	22.450	(0.869)	65689	2.00000	2.0498(a)
$	71 Terphenyl-d14	244	22.808	22.835	(0.885)	47622	2.00000	2.2009(a)
	72 Butylbenzylphthalate	149	24.138	24.165	(0.936)	38194	2.00000	2.1593(a)
	73 bis(2-Ethylhexyl)phthalate	149	25.744	25.770	(0.999)	57582	2.00000	(a)
	74 3,3'-Dichlorobenzidine	252	25.670	25.688	(0.996)	13649	2.00000	1.6654(a)
	75 Benzo(a)anthracene	228	25.735	25.761	(0.998)	56802	2.00000	2.3254(a)
*	76 Chrysene-d12	240	25.780	25.807	(1.000)	680821	40.0000	
	77 Chrysene	228	25.845	25.880	(1.002)	44803	2.00000	2.1297(a)
	78 Di-n-octylphthalate	149	27.533	27.559	(0.928)	86346	2.00000	2.0343(a)
	79 Benzo(b)fluoranthene	252	28.661	28.697	(0.966)	44479	2.00000	1.8826(aM)
	80 Benzo(k)fluoranthene	252	28.734	28.770	(0.968)	45835	2.00000	2.1149(aAM)

3/20/06

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG03.D
Report Date: 17-Mar-2006 10:19

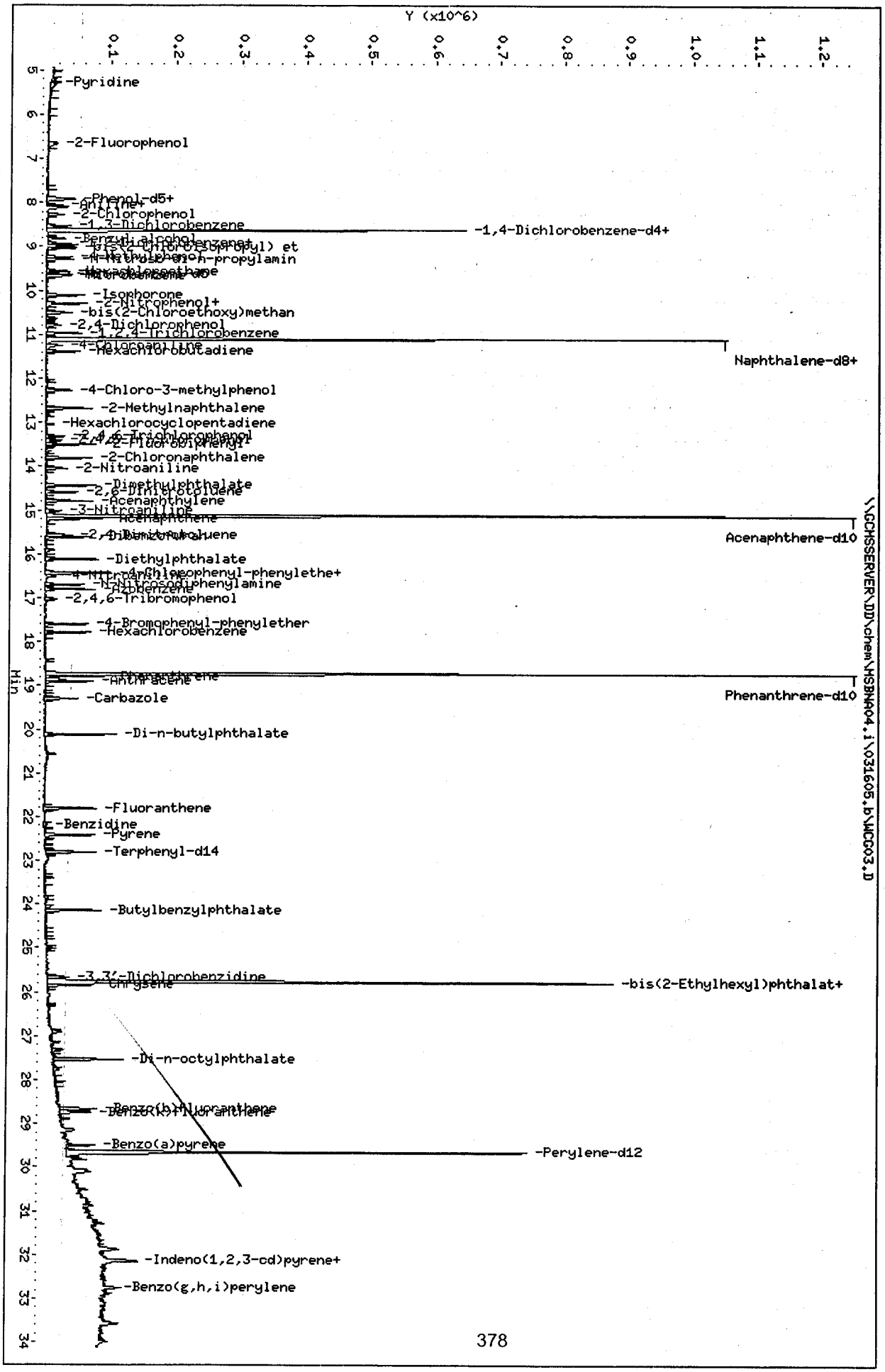
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
81 Benzo(a)pyrene	252	29.505	29.541	(0.994)	37427	2.00000	1.9875(a)
* 82 Perylene-d12	264	29.670	29.678	(1.000)	625069	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	32.129	32.164	(1.083)	32758	2.00000	2.0720(a)
84 Dibenz(a,h)anthracene	278	32.147	32.174	(1.083)	26167	2.00000	2.0328(a)
85 Benzo(g,h,i)perylene	276	32.762	32.796	(1.104)	26218	2.00000	2.0933(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\MCG03.D
Date : 16-MAR-2006 13:15
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2578
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG04.D
Report Date: 17-Mar-2006 10:20

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG04.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 16-MAR-2006 14:00 MS Autotune Date: 12-DEC-2005 12:21
Operator : LLH Inst ID: MSBNA04.i
Smp Info : ICAL,S2579
Misc Info : 5ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\6PTBNA4.m
Meth Date : 17-Mar-2006 10:20 target Quant Type: ISTD
Cal Date : 16-MAR-2006 14:00 Cal File: WCG04.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	5.272	5.258	(0.612)	55986	5.00000	4.7000(aM)
2 N-Nitrosodimethylamine	74	5.199	5.203	(0.603)	37073	5.00000	4.7979(aM)
$ 3 2-Fluorophenol	112	6.657	6.653	(0.772)	48219	5.00000	4.7667(a)
$ 4 Phenol-d5	99	7.905	7.909	(0.917)	66059	5.00000	5.0167
5 Phenol	94	7.923	7.928	(0.919)	72378	5.00000	5.3277
6 Aniline	66	8.070	8.064	(0.936)	27415	5.00000	4.5842(aQ)
7 bis(2-Chloroethyl)ether	63	8.107	8.111	(0.940)	53304	5.00000	5.7117(Q)
8 2-Chlorophenol	128	8.272	8.266	(0.960)	50125	5.00000	4.9183(a)
9 1,3-Dichlorobenzene	146	8.529	8.532	(0.989)	58190	5.00000	5.2289
* 10 1,4-Dichlorobenzene-d4	152	8.620	8.616	(1.000)	290905	40.0000	
11 1,4-Dichlorobenzene	146	8.648	8.651	(1.003)	58676	5.00000	5.5827
12 1,2-Dichlorobenzene	146	8.932	8.928	(1.036)	58078	5.00000	5.5760
13 Benzyl alcohol	108	8.813	8.818	(1.022)	37448	5.00000	4.5926(a)
14 2-Methylphenol	107	8.969	8.973	(1.040)	48236	5.00000	5.4977
15 bis(2-Chloroisopropyl) ether	45	9.033	9.029	(1.048)	119112	5.00000	9.7690
16 4-Methylphenol	107	9.235	9.258	(1.071)	70796	5.00000	4.9937(a)
17 N-Nitroso-di-n-propylamine	70	9.281	9.313	(1.077)	45262	5.00000	5.6532
18 Hexachloroethane	117	9.556	9.561	(1.109)	25199	5.00000	5.3907
$ 19 Nitrobenzene-d5	82	9.630	9.634	(0.867)	62686	5.00000	5.3286
20 Nitrobenzene	77	9.666	9.671	(0.870)	64654	5.00000	5.9578

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Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG04.D
Report Date: 17-Mar-2006 10:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	10.107	10.139	(0.910)	151191	5.00000	5.8487
	22 2-Nitrophenol	139	10.299	10.295	(0.927)	27043	5.00000	4.9117(a)
	23 2,4-Dimethylphenol	122	10.299	10.313	(0.927)	48394	5.00000	5.7699
	24 bis(2-Chloroethoxy)methane	93	10.501	10.515	(0.945)	80831	5.00000	6.3832
	25 2,4-Dichlorophenol	162	10.776	10.781	(0.970)	42097	5.00000	4.9114(a)
	27 1,2,4-Trichlorobenzene	180	10.969	10.973	(0.988)	53365	5.00000	5.8633
*	28 Naphthalene-d8	136	11.106	11.111	(1.000)	1045693	40.0000	
	29 Naphthalene	128	11.143	11.157	(1.003)	151375	5.00000	5.6547
	30 4-Chloroaniline	127	11.244	11.239	(1.012)	59288	5.00000	5.1009
	31 Hexachlorobutadiene	225	11.391	11.395	(1.026)	30887	5.00000	5.6471
	32 Resorcinol	110	12.024	12.037	(1.083)	29472	5.00000	10.8214(A)
	33 4-Chloro-3-methylphenol	107	12.262	12.276	(1.104)	55624	5.00000	5.3760
	34 2-Methylnaphthalene	142	12.675	12.680	(1.141)	112270	5.00000	5.5636
	35 Hexachlorocyclopentadiene	237	13.033	13.037	(0.861)	13713	5.00000	3.1810(a)
	36 2,4,6-Trichlorophenol	196	13.308	13.322	(0.879)	27483	5.00000	4.0791(a)
	37 2,4,5-Trichlorophenol	196	13.400	13.404	(0.885)	33297	5.00000	4.6162(aM)
$	38 2-Fluorobiphenyl	172	13.501	13.514	(0.892)	123772	5.00000	5.7877
	39 2-Chloronaphthalene	162	13.804	13.817	(0.912)	114083	5.00000	5.6454
	40 2-Nitroaniline	65	14.042	14.065	(0.928)	39017	5.00000	5.2946(a)
	41 Dimethylphthalate	163	14.436	14.469	(0.954)	153534	5.00000	5.8860
	42 2,6-Dinitrotoluene	165	14.592	14.624	(0.964)	34740	5.00000	5.0969
	43 Acenaphthylene	152	14.794	14.808	(0.978)	180001	5.00000	5.5912
	44 3-Nitroaniline	138	15.024	15.046	(0.993)	27479	5.00000	4.5894(a)
*	45 Acenaphthene-d10	164	15.134	15.138	(1.000)	686007	40.0000	
	46 Acenaphthene	154	15.207	15.230	(1.005)	101657	5.00000	5.6846
	48 4-Nitrophenol	109	15.391	15.413	(1.017)	4597	5.00000	7.1743(aQ)
	49 Dibenzofuran	168	15.611	15.634	(1.032)	154110	5.00000	5.5356
	50 2,4-Dinitrotoluene	165	15.565	15.606	(1.028)	45459	5.00000	5.5472
	51 2,3,4,6-Tetrachlorophenol	232	15.913	15.927	(1.052)	19530	5.00000	3.3693(aA)
	52 Diethylphthalate	149	16.115	16.155	(1.065)	153974	5.00000	6.2795
	53 4-Chlorophenyl-phenylether	204	16.418	16.440	(1.085)	65240	5.00000	5.1784
	54 Fluorene	166	16.446	16.468	(1.087)	122991	5.00000	5.6101
	55 4-Nitroaniline	138	16.491	16.542	(1.090)	19361	5.00000	3.8987(aM)
	57 N-Nitrosodiphenylamine	169	16.702	16.734	(0.891)	77722	5.00000	5.6707
	58 Azobenzene	77	16.803	16.826	(0.897)	168551	5.00000	5.8501
$	59 2,4,6-Tribromophenol	330	17.033	17.046	(1.125)	18652	5.00000	4.1096(a)
	60 4-Bromophenyl-phenylether	248	17.611	17.633	(0.940)	42421	5.00000	5.7268
	61 Hexachlorobenzene	284	17.794	17.817	(0.950)	50815	5.00000	6.2996
	62 Pentachlorophenol	266	18.280	18.285	(0.976)	4703	5.00000	5.6688(aQ)
*	63 Phenanthrene-d10	188	18.739	18.753	(1.000)	1064129	40.0000	
	64 Phenanthrene	178	18.794	18.817	(1.003)	164424	5.00000	5.5391
	65 Anthracene	178	18.913	18.936	(1.009)	163827	5.00000	5.5082
	66 Carbazole	167	19.299	19.321	(1.030)	129110	5.00000	5.1430
	67 Di-n-butylphthalate	149	20.124	20.138	(1.074)	280517	5.00000	4.5836(a)
	68 Fluoranthene	202	21.812	21.835	(1.164)	192731	5.00000	5.6985
	69 Benzidine	184	22.179	22.165	(0.860)	6549	5.00000	9.2458
	70 Pyrene	202	22.418	22.450	(0.869)	193887	5.00000	5.2721
$	71 Terphenyl-d14	244	22.812	22.835	(0.885)	133828	5.00000	5.3896
	72 Butylbenzylphthalate	149	24.142	24.165	(0.936)	111307	5.00000	5.4836
	73 bis(2-Ethylhexyl)phthalate	149	25.748	25.770	(0.999)	149542	5.00000	2.2684(a)
	74 3,3'-Dichlorobenzidine	252	25.665	25.688	(0.995)	42606	5.00000	4.5301(a)
	75 Benzo(a)anthracene	228	25.738	25.761	(0.998)	160077	5.00000	5.7107
*	76 Chrysene-d12	240	25.784	25.807	(1.000)	781297	40.0000	
	77 Chrysene	228	25.839	25.880	(1.002)	125129	5.00000	5.1832

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG04.D
Report Date: 17-Mar-2006 10:20

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
78 Di-n-octylphthalate	149	27.527	27.559	(0.928)	237716	5.00000	4.9933(a)
79 Benzo(b)fluoranthene	252	28.665	28.697	(0.966)	127030	5.00000	4.7936(aM)
80 Benzo(k)fluoranthene	252	28.729	28.770	(0.968)	127194	5.00000	5.2326(A)
81 Benzo(a)pyrene	252	29.500	29.541	(0.994)	105624	5.00000	5.0010
* 82 Perylene-d12	264	29.665	29.678	(1.000)	701090	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	32.132	32.164	(1.083)	98934	5.00000	5.5792
84 Dibenz(a,h)anthracene	278	32.142	32.174	(1.083)	78465	5.00000	5.4347
85 Benzo(g,h,i)perylene	276	32.765	32.796	(1.105)	79373	5.00000	5.6502

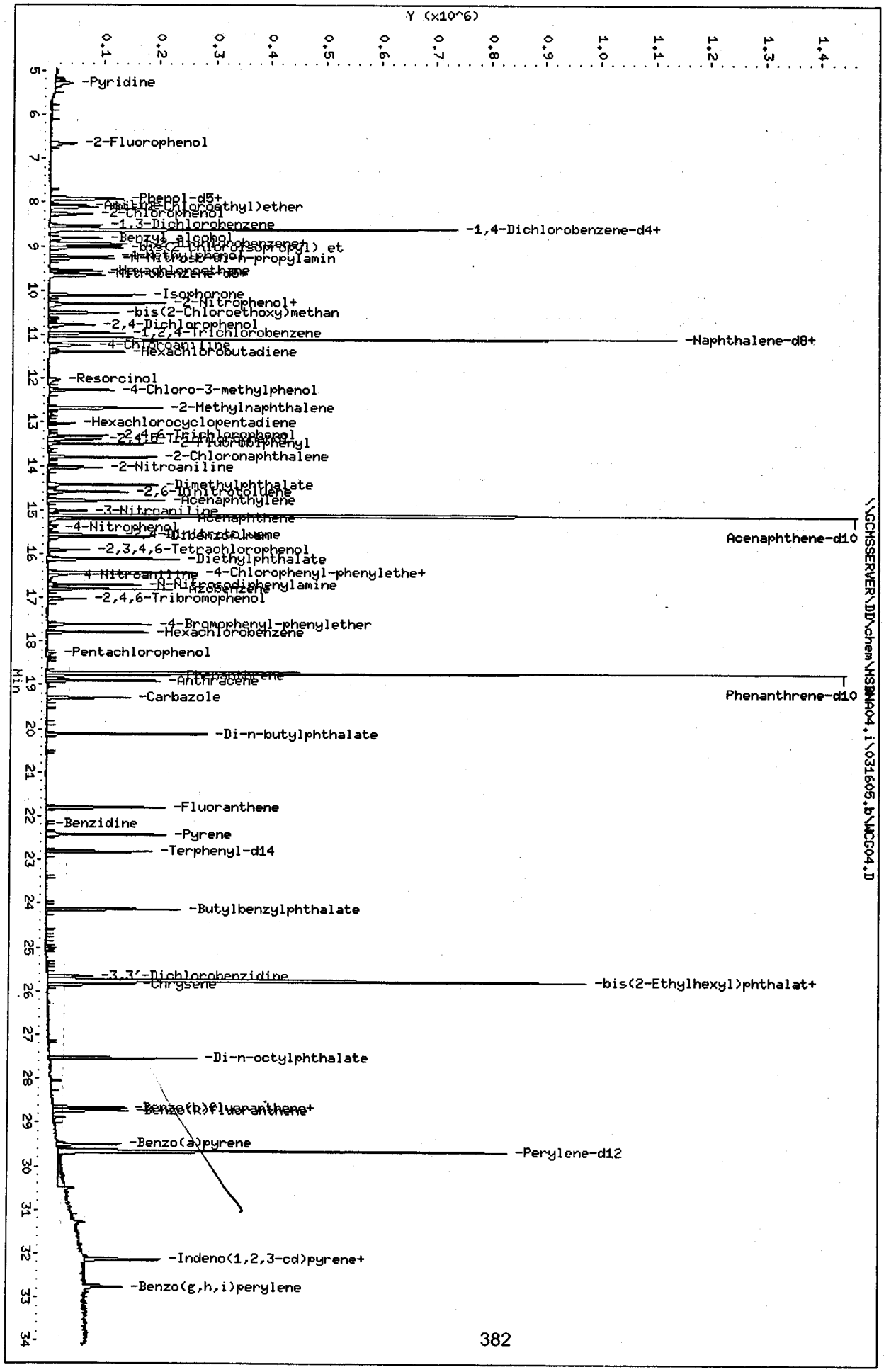
3/20/06

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\MCC04.D
Date : 16-MAR-2006 14:00
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2579
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG05.D
Report Date: 17-Mar-2006 10:20

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG05.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 16-MAR-2006 14:45 MS Autotune Date: 12-DEC-2005 12:21
Operator : LLH Inst ID: MSBNA04.i
Smp Info : ICAL,S2580
Misc Info : 10ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\6PTBNA4.m
Meth Date : 17-Mar-2006 10:20 target Quant Type: ISTD
Cal Date : 16-MAR-2006 14:45 Cal File: WCG05.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	5.276	5.258	(0.612)	115345	10.0000	9.0407(M)
2 N-Nitrosodimethylamine	74	5.203	5.203	(0.604)	79490	10.0000	9.6048(M)
$ 3 2-Fluorophenol	112	6.661	6.653	(0.773)	102620	10.0000	9.4716
$ 4 Phenol-d5	99	7.900	7.909	(0.917)	143132	10.0000	10.1487
5 Phenol	94	7.927	7.928	(0.920)	160504	10.0000	11.0308
6 Aniline	66	8.065	8.064	(0.936)	64460	10.0000	10.0636(Q)
7 bis(2-Chloroethyl)ether	63	8.111	8.111	(0.941)	113929	10.0000	11.3979(Q)
8 2-Chlorophenol	128	8.267	8.266	(0.960)	106129	10.0000	9.7226
9 1,3-Dichlorobenzene	146	8.533	8.532	(0.990)	130550	10.0000	10.9528
* 10 1,4-Dichlorobenzene-d4	152	8.615	8.616	(1.000)	311578	40.0000	
11 1,4-Dichlorobenzene	146	8.652	8.651	(1.004)	122663	10.0000	10.8965
12 1,2-Dichlorobenzene	146	8.927	8.928	(1.036)	122947	10.0000	11.0209
13 Benzyl alcohol	108	8.808	8.818	(1.022)	82959	10.0000	9.4992
14 2-Methylphenol	107	8.964	8.973	(1.040)	99770	10.0000	10.6169
15 bis(2-Chloroisopropyl) ether	45	9.028	9.029	(1.048)	237732	10.0000	11.5959
16 4-Methylphenol	107	9.239	9.258	(1.072)	151892	10.0000	10.0030
17 N-Nitroso-di-n-propylamine	70	9.285	9.313	(1.078)	96764	10.0000	11.2839
18 Hexachloroethane	117	9.560	9.561	(1.110)	54755	10.0000	10.9362
$ 19 Nitrobenzene-d5	82	9.624	9.634	(0.867)	139385	10.0000	10.9813
20 Nitrobenzene	77	9.661	9.671	(0.870)	133966	10.0000	11.4412

3/20/06

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG05.D
Report Date: 17-Mar-2006 10:20

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
21 Isophorone	82	10.111	10.139	(0.911)	305072	10.0000	10.9378
22 2-Nitrophenol	139	10.294	10.295	(0.927)	59485	10.0000	10.0132
23 2,4-Dimethylphenol	122	10.294	10.313	(0.927)	99319	10.0000	10.9749
24 bis(2-Chloroethoxy)methane	93	10.496	10.515	(0.945)	178671	10.0000	10.5792
25 2,4-Dichlorophenol	162	10.771	10.781	(0.970)	96661	10.0000	10.4520
26 Benzoic acid	122	~~10.294~~ N/A	10.533	(0.927)	99319	10.0000	44.0988(Q)
27 1,2,4-Trichlorobenzene	180	10.964	10.973	(0.988)	109350	10.0000	11.1350
* 28 Naphthalene-d8	136	11.101	11.111	(1.000)	1128275	40.0000	
29 Naphthalene	128	11.147	11.157	(1.004)	321366	10.0000	11.1261
30 4-Chloroaniline	127	11.248	11.239	(1.013)	115921	10.0000	9.2435
31 Hexachlorobutadiene	225	11.386	11.395	(1.026)	67451	10.0000	11.4295
32 Resorcinol	110	12.028	12.037	(1.083)	57155	10.0000	13.5615(A)
33 4-Chloro-3-methylphenol	107	12.257	12.276	(1.104)	121399	10.0000	10.8744
34 2-Methylnaphthalene	142	12.670	12.680	(1.141)	236148	10.0000	10.8459
35 Hexachlorocyclopentadiene	237	13.028	13.037	(0.861)	34315	10.0000	7.7659
36 2,4,6-Trichlorophenol	196	13.312	13.322	(0.879)	66743	10.0000	9.6646
37 2,4,5-Trichlorophenol	196	13.395	13.404	(0.885)	69274	10.0000	9.3697
$ 38 2-Fluorobiphenyl	172	13.496	13.514	(0.892)	253800	10.0000	11.5785
39 2-Chloronaphthalene	162	13.808	13.817	(0.912)	232264	10.0000	11.2132
40 2-Nitroaniline	65	14.037	14.065	(0.927)	78610	10.0000	10.4072(a)
41 Dimethylphthalate	163	14.441	14.469	(0.954)	301495	10.0000	11.2764
42 2,6-Dinitrotoluene	165	14.597	14.624	(0.964)	71290	10.0000	10.2043
43 Acenaphthylene	152	14.789	14.808	(0.977)	369478	10.0000	11.1969
44 3-Nitroaniline	138	15.018	15.046	(0.992)	54024	10.0000	8.8027(a)
* 45 Acenaphthene-d10	164	15.138	15.138	(1.000)	703158	40.0000	
46 Acenaphthene	154	15.211	15.230	(1.005)	204140	10.0000	11.1370
48 4-Nitrophenol	109	15.385	15.413	(1.016)	17765	10.0000	11.0292(aM)
49 Dibenzofuran	168	15.615	15.634	(1.032)	322237	10.0000	11.2924
50 2,4-Dinitrotoluene	165	15.569	15.606	(1.028)	90784	10.0000	10.8079
51 2,3,4,6-Tetrachlorophenol	232	15.908	15.927	(1.051)	46152	10.0000	7.7680(A)
52 Diethylphthalate	149	16.119	16.155	(1.065)	303547	10.0000	12.0777
53 4-Chlorophenyl-phenylether	204	16.422	16.440	(1.085)	135998	10.0000	8.9468
54 Fluorene	166	16.440	16.468	(1.086)	240730	10.0000	8.8348
55 4-Nitroaniline	138	16.495	16.542	(1.090)	42177	10.0000	8.2860(aM)
56 4,6-Dinitro-2-methylphenol	198	16.560	16.588	(0.884)	8855	10.0000	14.4198(aQM)
57 N-Nitrosodiphenylamine	169	16.706	16.734	(0.891)	155412	10.0000	11.2046
58 Azobenzene	77	16.807	16.826	(0.897)	323559	10.0000	9.6322
$ 59 2,4,6-Tribromophenol	330	17.028	17.046	(1.125)	44916	10.0000	9.6550
60 4-Bromophenyl-phenylether	248	17.615	17.633	(0.940)	88210	10.0000	11.7670
61 Hexachlorobenzene	284	17.798	17.817	(0.950)	96274	10.0000	11.7937
62 Pentachlorophenol	266	18.275	18.285	(0.975)	21418	10.0000	8.8708(a)
* 63 Phenanthrene-d10	188	18.743	18.753	(1.000)	1076910	40.0000	
64 Phenanthrene	178	18.789	18.817	(1.002)	338547	10.0000	11.2697
65 Anthracene	178	18.917	18.936	(1.009)	332544	10.0000	11.0482
66 Carbazole	167	19.303	19.321	(1.030)	261308	10.0000	10.2855
67 Di-n-butylphthalate	149	20.128	20.138	(1.074)	552088	10.0000	9.2937
68 Fluoranthene	202	21.816	21.835	(1.164)	382652	10.0000	11.1798
69 Benzidine	184	22.174	22.165	(0.860)	9525	10.0000	9.8889
70 Pyrene	202	22.422	22.450	(0.870)	389032	10.0000	10.5042
$ 71 Terphenyl-d14	244	22.807	22.835	(0.885)	270198	10.0000	10.8053
72 Butylbenzylphthalate	149	24.146	24.165	(0.937)	217076	10.0000	10.6194
73 bis(2-Ethylhexyl)phthalate	149	25.752	25.770	(0.999)	295182	10.0000	8.6789
74 3,3'-Dichlorobenzidine	252	25.669	25.688	(0.996)	82837	10.0000	8.7460(a)
75 Benzo(a)anthracene	228	25.733	25.761	(0.998)	314696	10.0000	11.1480

2,4 Dinitro phenol. N/A

3/20/06

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG05.D
Report Date: 17-Mar-2006 10:20

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 76 Chrysene-d12	240	25.779	25.807	(1.000)	786819	40.0000	
77 Chrysene	228	25.843	25.880	(1.002)	248954	10.0000	10.2400
78 Di-n-octylphthalate	149	27.531	27.559	(0.928)	478310	10.0000	9.8041
79 Benzo(b)fluoranthene	252	28.669	28.697	(0.966)	260542	10.0000	9.5940(M)
80 Benzo(k)fluoranthene	252	28.742	28.770	(0.969)	250221	10.0000	10.0448(A)
81 Benzo(a)pyrene	252	29.504	29.541	(0.994)	216329	10.0000	9.9948
* 82 Perylene-d12	264	29.669	29.678	(1.000)	718471	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	32.127	32.164	(1.083)	203047	10.0000	11.1735
84 Dibenz(a,h)anthracene	278	32.146	32.174	(1.083)	160360	10.0000	10.8383
85 Benzo(g,h,i)perylene	276	32.769	32.796	(1.105)	161376	10.0000	11.2098

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCC05.D
Date : 16-MAR-2006 14:45
Client ID: CURTIS&TOMPKINS
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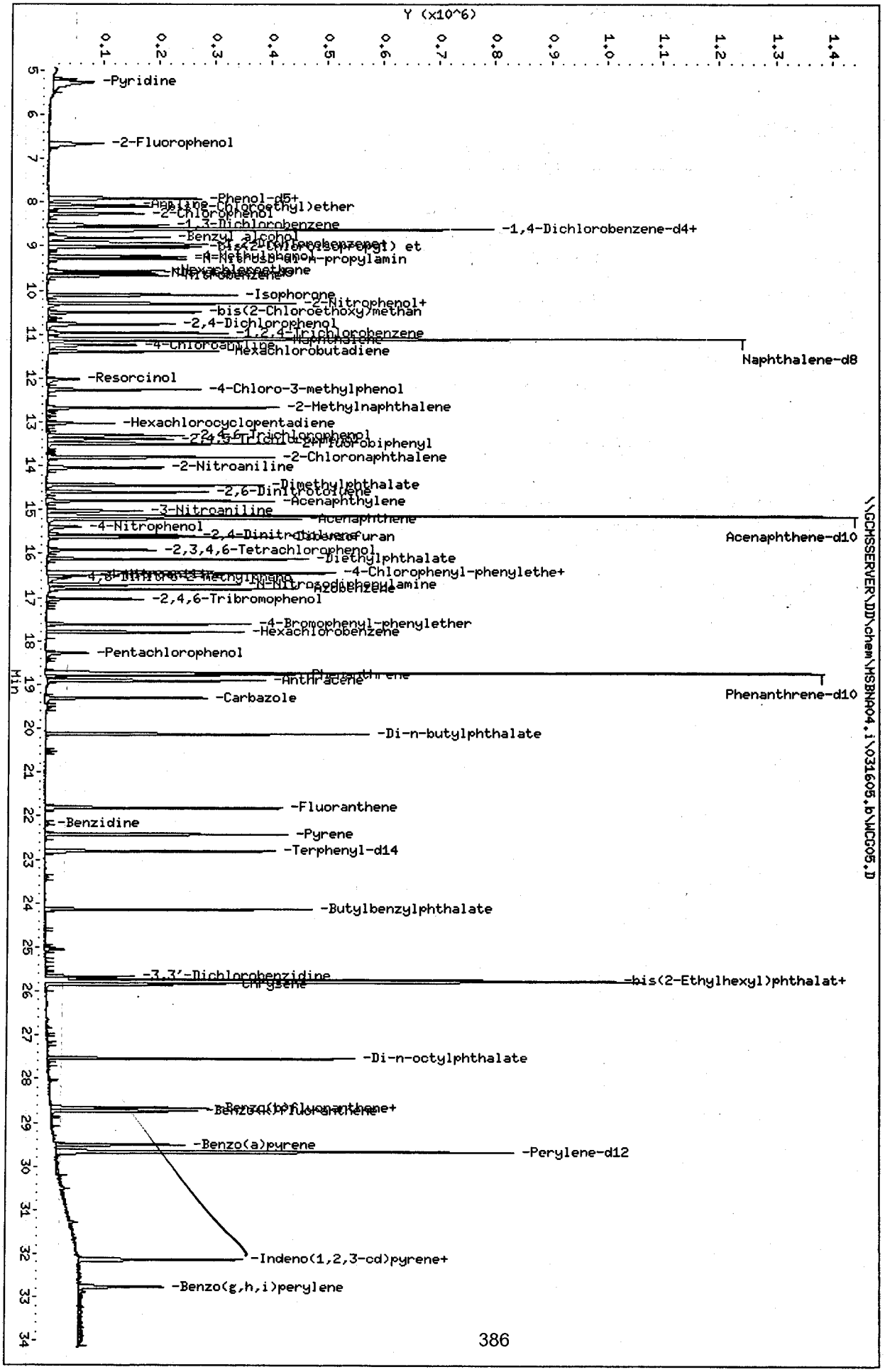
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG06.D
Report Date: 17-Mar-2006 10:20

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG06.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 16-MAR-2006 15:30 MS Autotune Date: 12-DEC-2005 12:21
Operator : LLH Inst ID: MSBNA04.i
Smp Info : ICAL,S2581
Misc Info : 20ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\6PTBNA4.m
Meth Date : 17-Mar-2006 10:20 target Quant Type: ISTD
Cal Date : 16-MAR-2006 15:30 Cal File: WCG06.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	5.258	5.258	(0.610)	256959	20.0000	19.2056(M)
2 N-Nitrosodimethylamine	74	5.203	5.203	(0.604)	176374	20.0000	20.3222
$ 3 2-Fluorophenol	112	6.653	6.653	(0.772)	223895	20.0000	19.7058
$ 4 Phenol-d5	99	7.900	7.909	(0.917)	315269	20.0000	21.3165
5 Phenol	94	7.928	7.928	(0.920)	328715	20.0000	21.5427
6 Aniline	66	8.066	8.064	(0.936)	141333	20.0000	21.0411(Q)
7 bis(2-Chloroethyl)ether	63	8.111	8.111	(0.941)	226923	20.0000	21.6486(Q)
8 2-Chlorophenol	128	8.267	8.266	(0.960)	237016	20.0000	20.7056
9 1,3-Dichlorobenzene	146	8.533	8.532	(0.990)	269935	20.0000	21.5956
* 10 1,4-Dichlorobenzene-d4	152	8.616	8.616	(1.000)	326744	40.0000	
11 1,4-Dichlorobenzene	146	8.653	8.651	(1.004)	252257	20.0000	21.3686
12 1,2-Dichlorobenzene	146	8.928	8.928	(1.036)	261350	20.0000	22.3398
13 Benzyl alcohol	108	8.809	8.818	(1.022)	186055	20.0000	20.3153
14 2-Methylphenol	107	8.965	8.973	(1.040)	217101	20.0000	22.0302
15 bis(2-Chloroisopropyl) ether	45	9.029	9.029	(1.048)	497037	20.0000	17.8888
16 4-Methylphenol	107	9.240	9.258	(1.072)	331272	20.0000	20.8038
17 N-Nitroso-di-n-propylamine	70	9.286	9.313	(1.078)	204080	20.0000	22.6938
18 Hexachloroethane	117	9.561	9.561	(1.110)	117155	20.0000	22.3134
$ 19 Nitrobenzene-d5	82	9.625	9.634	(0.867)	294899	20.0000	21.6812
20 Nitrobenzene	77	9.662	9.671	(0.870)	283616	20.0000	22.6038

3/20/06

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG06.D
Report Date: 17-Mar-2006 10:20

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
21 Isophorone	82	10.111	10.139	(0.911)	652760	20.0000	21.8400
22 2-Nitrophenol	139	10.295	10.295	(0.927)	133853	20.0000	21.0264
23 2,4-Dimethylphenol	122	10.304	10.313	(0.928)	212353	20.0000	21.8977
24 bis(2-Chloroethoxy)methane	93	10.497	10.515	(0.945)	368716	20.0000	19.2112
25 2,4-Dichlorophenol	162	10.772	10.781	(0.970)	207563	20.0000	20.9446
26 Benzoic acid	122	10.460	10.533	(0.942)	8720	20.0000	32.5607(Q)
27 1,2,4-Trichlorobenzene	180	10.964	10.973	(0.988)	235242	20.0000	22.3543
* 28 Naphthalene-d8	136	11.102	11.111	(1.000)	1209048	40.0000	
29 Naphthalene	128	11.148	11.157	(1.004)	666741	20.0000	21.5414
30 4-Chloroaniline	127	11.240	11.239	(1.012)	266360	20.0000	19.8206
31 Hexachlorobutadiene	225	11.386	11.395	(1.026)	139703	20.0000	22.0911
32 Resorcinol	110	12.029	12.037	(1.083)	118619	20.0000	19.3474(A)
33 4-Chloro-3-methylphenol	107	12.258	12.276	(1.104)	261811	20.0000	21.8853
34 2-Methylnaphthalene	142	12.671	12.680	(1.141)	513060	20.0000	21.9899
35 Hexachlorocyclopentadiene	237	13.029	13.037	(0.861)	86986	20.0000	18.3218
36 2,4,6-Trichlorophenol	196	13.313	13.322	(0.879)	154826	20.0000	20.8657
37 2,4,5-Trichlorophenol	196	13.396	13.404	(0.885)	164720	20.0000	20.7353
$ 38 2-Fluorobiphenyl	172	13.506	13.514	(0.892)	539305	20.0000	22.8983
39 2-Chloronaphthalene	162	13.808	13.817	(0.912)	502808	20.0000	22.5923
40 2-Nitroaniline	65	14.047	14.065	(0.928)	175914	20.0000	21.6753(a)
41 Dimethylphthalate	163	14.450	14.469	(0.955)	647978	20.0000	22.5559
42 2,6-Dinitrotoluene	165	14.606	14.624	(0.965)	155169	20.0000	20.6713
43 Acenaphthylene	152	14.799	14.808	(0.978)	795401	20.0000	22.4340
44 3-Nitroaniline	138	15.019	15.046	(0.992)	122855	20.0000	18.6308(a)
* 45 Acenaphthene-d10	164	15.138	15.138	(1.000)	755517	40.0000	
46 Acenaphthene	154	15.212	15.230	(1.005)	437067	20.0000	22.1920
47 2,4-Dinitrophenol	184	15.276	15.285	(1.009)	10256	20.0000	26.3399
48 4-Nitrophenol	109	15.386	15.413	(1.016)	51188	20.0000	19.7777(a)
49 Dibenzofuran	168	15.625	15.634	(1.032)	655102	20.0000	21.3663
50 2,4-Dinitrotoluene	165	15.579	15.606	(1.029)	199436	20.0000	22.0975
51 2,3,4,6-Tetrachlorophenol	232	15.909	15.927	(1.051)	125209	20.0000	19.6139(A)
52 Diethylphthalate	149	16.129	16.155	(1.065)	624301	20.0000	23.1186
53 4-Chlorophenyl-phenylether	204	16.423	16.440	(1.085)	289573	20.0000	17.9376
54 Fluorene	166	16.450	16.468	(1.087)	517641	20.0000	17.4168
55 4-Nitroaniline	138	16.505	16.542	(1.090)	95586	20.0000	17.4773(a)
56 4,6-Dinitro-2-methylphenol	198	16.560	16.588	(0.884)	38579	20.0000	19.7746(a)
57 N-Nitrosodiphenylamine	169	16.707	16.734	(0.891)	335771	20.0000	22.4914
58 Azobenzene	77	16.808	16.826	(0.897)	683885	20.0000	18.8601
$ 59 2,4,6-Tribromophenol	330	17.037	17.046	(1.125)	105830	20.0000	21.1724
60 4-Bromophenyl-phenylether	248	17.615	17.633	(0.940)	184109	20.0000	22.8184
61 Hexachlorobenzene	284	17.799	17.817	(0.950)	205921	20.0000	23.4370
62 Pentachlorophenol	266	18.276	18.285	(0.975)	74241	20.0000	18.0122(a)
* 63 Phenanthrene-d10	188	18.744	18.753	(1.000)	1159092	40.0000	
64 Phenanthrene	178	18.799	18.817	(1.003)	719292	20.0000	22.2464
65 Anthracene	178	18.918	18.936	(1.009)	712321	20.0000	21.9878
66 Carbazole	167	19.303	19.321	(1.030)	570543	20.0000	20.8652
67 Di-n-butylphthalate	149	20.129	20.138	(1.074)	1154040	20.0000	19.6732
68 Fluoranthene	202	21.817	21.835	(1.164)	819579	20.0000	22.2476
69 Benzidine	184	22.165	22.165	(0.859)	40678	20.0000	16.1693
70 Pyrene	202	22.432	22.450	(0.870)	822995	20.0000	20.8327
$ 71 Terphenyl-d14	244	22.817	22.835	(0.885)	580860	20.0000	21.7768
72 Butylbenzylphthalate	149	24.147	24.165	(0.936)	472197	20.0000	21.6562
73 bis(2-Ethylhexyl)phthalate	149	25.752	25.770	(0.999)	602200	20.0000	20.9885
74 3,3'-Dichlorobenzidine	252	25.670	25.688	(0.995)	189651	20.0000	18.7720

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG06.D
Report Date: 17-Mar-2006 10:20

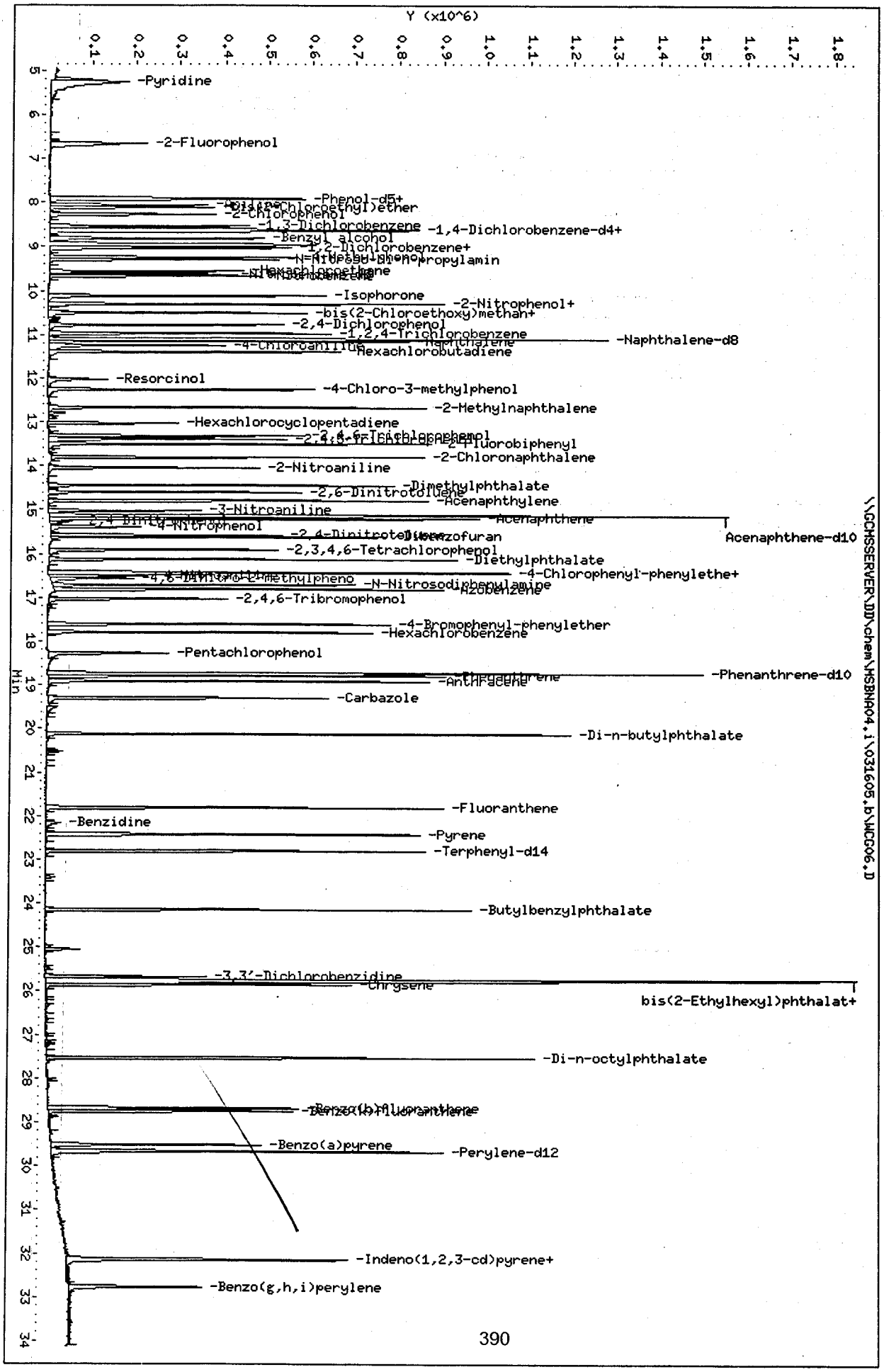
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Benzo(a)anthracene	228	25.743	25.761	(0.998)	648914	20.0000	21.5508
* 76 Chrysene-d12	240	25.789	25.807	(1.000)	839278	40.0000	
77 Chrysene	228	25.853	25.880	(1.002)	547680	20.0000	21.1192
78 Di-n-octylphthalate	149	27.541	27.559	(0.928)	1016437	20.0000	19.4995
79 Benzo(b)fluoranthene	252	28.679	28.697	(0.967)	537992	20.0000	18.5414
80 Benzo(k)fluoranthene	252	28.752	28.770	(0.969)	553176	20.0000	20.7839(A)
81 Benzo(a)pyrene	252	29.523	29.541	(0.995)	474585	20.0000	20.5219
* 82 Perylene-d12	264	29.670	29.678	(1.000)	767652	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	32.146	32.164	(1.083)	450450	20.0000	23.1999
84 Dibenz(a,h)anthracene	278	32.156	32.174	(1.084)	367077	20.0000	23.2204
85 Benzo(g,h,i)perylene	276	32.779	32.796	(1.105)	350683	20.0000	22.7992

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG06.D
Date : 16-MAR-2006 15:30
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2581
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG07.D
Report Date: 17-Mar-2006 10:20

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG07.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 16-MAR-2006 16:15 MS Autotune Date: 12-DEC-2005 12:21
Operator : LLH Inst ID: MSBNA04.i
Smp Info : ICAL,S2582
Misc Info : 50ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\6PTBNA4.m
Meth Date : 17-Mar-2006 10:20 target Quant Type: ISTD
Cal Date : 16-MAR-2006 16:15 Cal File: WCG07.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
	1 Pyridine	79	5.258	5.258	(0.610)	712477	50.0000	50.4373
	2 N-Nitrosodimethylamine	74	5.203	5.203	(0.604)	463730	50.0000	50.6080
$	3 2-Fluorophenol	112	6.652	6.652	(0.772)	598860	50.0000	49.9223
$	4 Phenol-d5	99	7.909	7.909	(0.918)	816532	50.0000	52.2910
	5 Phenol	94	7.927	7.927	(0.920)	852747	50.0000	52.9320
	6 Aniline	66	8.065	8.065	(0.936)	381256	50.0000	53.7600(Q)
	7 bis(2-Chloroethyl)ether	63	8.111	8.111	(0.941)	574454	50.0000	51.9067(Q)
	8 2-Chlorophenol	128	8.267	8.267	(0.960)	621966	50.0000	51.4630
	9 1,3-Dichlorobenzene	146	8.533	8.533	(0.990)	693244	50.0000	52.5305
*	10 1,4-Dichlorobenzene-d4	152	8.615	8.615	(1.000)	344977	40.0000	
	11 1,4-Dichlorobenzene	146	8.652	8.652	(1.004)	663326	50.0000	53.2203
	12 1,2-Dichlorobenzene	146	8.927	8.927	(1.036)	640505	50.0000	51.8559
	13 Benzyl alcohol	108	8.817	8.817	(1.023)	497994	50.0000	51.5020
	14 2-Methylphenol	107	8.973	8.973	(1.042)	540000	50.0000	51.9001
	15 bis(2-Chloroisopropyl) ether	45	9.028	9.028	(1.048)	1193061	50.0000	48.6796
	16 4-Methylphenol	107	9.257	9.257	(1.075)	848014	50.0000	50.4404
	17 N-Nitroso-di-n-propylamine	70	9.312	9.312	(1.081)	493079	50.0000	51.9327
	18 Hexachloroethane	117	9.560	9.560	(1.110)	289748	50.0000	52.2689
$	19 Nitrobenzene-d5	82	9.634	9.634	(0.867)	746740	50.0000	51.6192
	20 Nitrobenzene	77	9.670	9.670	(0.870)	701340	50.0000	52.5547

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG07.D
Report Date: 17-Mar-2006 10:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	10.138	10.138	(0.912)	1620959	50.0000	50.9921
	22 2-Nitrophenol	139	10.294	10.294	(0.927)	355311	50.0000	52.4781
	23 2,4-Dimethylphenol	122	10.312	10.312	(0.928)	545890	50.0000	52.9269
	24 bis(2-Chloroethoxy)methane	93	10.514	10.514	(0.946)	909488	50.0000	49.7982
	25 2,4-Dichlorophenol	162	10.780	10.780	(0.970)	552792	50.0000	52.4464
	26 Benzoic acid	122	10.533	10.533	(0.948)	155208	50.0000	48.7633
	27 1,2,4-Trichlorobenzene	180	10.973	10.973	(0.988)	600612	50.0000	53.6626
*	28 Naphthalene-d8	136	11.110	11.110	(1.000)	1285915	40.0000	
	29 Naphthalene	128	11.156	11.156	(1.004)	1664753	50.0000	50.5707
	30 4-Chloroaniline	127	11.239	11.239	(1.012)	803726	50.0000	56.2325
	31 Hexachlorobutadiene	225	11.395	11.395	(1.026)	364198	50.0000	54.1477
	32 Resorcinol	110	12.037	12.037	(1.083)	407647	50.0000	46.0378(A)
	33 4-Chloro-3-methylphenol	107	12.276	12.276	(1.105)	650571	50.0000	51.1318
	34 2-Methylnaphthalene	142	12.679	12.679	(1.141)	1241459	50.0000	50.0287
	35 Hexachlorocyclopentadiene	237	13.037	13.037	(0.861)	271055	50.0000	55.7893
	36 2,4,6-Trichlorophenol	196	13.321	13.321	(0.880)	405875	50.0000	53.4509
	37 2,4,5-Trichlorophenol	196	13.404	13.404	(0.885)	442946	50.0000	54.4866
$	38 2-Fluorobiphenyl	172	13.514	13.514	(0.893)	1309811	50.0000	54.3441
	39 2-Chloronaphthalene	162	13.817	13.817	(0.913)	1242843	50.0000	54.5694
	40 2-Nitroaniline	65	14.064	14.064	(0.929)	426092	50.0000	51.3031
	41 Dimethylphthalate	163	14.468	14.468	(0.956)	1576500	50.0000	53.6251
	42 2,6-Dinitrotoluene	165	14.624	14.624	(0.966)	390508	50.0000	50.8356
	43 Acenaphthylene	152	14.807	14.807	(0.978)	1857807	50.0000	51.2030
	44 3-Nitroaniline	138	15.046	15.046	(0.994)	341061	50.0000	50.5413
*	45 Acenaphthene-d10	164	15.138	15.138	(1.000)	773161	40.0000	
	46 Acenaphthene	154	15.229	15.229	(1.006)	1040513	50.0000	51.6263
	47 2,4-Dinitrophenol	184	15.284	15.284	(1.010)	112490	50.0000	45.9595
	48 4-Nitrophenol	109	15.413	15.413	(1.018)	164829	50.0000	48.9379
	49 Dibenzofuran	168	15.633	15.633	(1.033)	1587019	50.0000	50.5799
	50 2,4-Dinitrotoluene	165	15.606	15.606	(1.031)	485967	50.0000	52.6165
	51 2,3,4,6-Tetrachlorophenol	232	15.927	15.927	(1.052)	357093	50.0000	54.6620(A)
	52 Diethylphthalate	149	16.156	16.156	(1.067)	1469121	50.0000	53.1618
	53 4-Chlorophenyl-phenylether	204	16.440	16.440	(1.086)	680396	50.0000	52.1344
	54 Fluorene	166	16.468	16.468	(1.088)	1191218	50.0000	49.4981
	55 4-Nitroaniline	138	16.541	16.541	(1.093)	287000	50.0000	51.2786
	56 4,6-Dinitro-2-methylphenol	198	16.587	16.587	(0.885)	184091	50.0000	45.7989
	57 N-Nitrosodiphenylamine	169	16.734	16.734	(0.892)	816783	50.0000	53.4223
	58 Azobenzene	77	16.826	16.826	(0.897)	1562368	50.0000	50.9622
$	59 2,4,6-Tribromophenol	330	17.046	17.046	(1.126)	283114	50.0000	55.3474
	60 4-Bromophenyl-phenylether	248	17.633	17.633	(0.940)	445765	50.0000	53.9459
	61 Hexachlorobenzene	284	17.816	17.816	(0.950)	487560	50.0000	54.1841
	62 Pentachlorophenol	266	18.284	18.284	(0.975)	262928	50.0000	50.6020
*	63 Phenanthrene-d10	188	18.752	18.752	(1.000)	1187071	40.0000	
	64 Phenanthrene	178	18.816	18.816	(1.003)	1732637	50.0000	52.3244
	65 Anthracene	178	18.936	18.936	(1.010)	1752844	50.0000	52.8313
	66 Carbazole	167	19.321	19.321	(1.030)	1494253	50.0000	53.3581
	67 Di-n-butylphthalate	149	20.137	20.137	(1.074)	2605469	50.0000	52.5503
	68 Fluoranthene	202	21.834	21.834	(1.164)	1965635	50.0000	52.0998
	69 Benzidine	184	22.165	22.165	(0.859)	237102	50.0000	55.8546
	70 Pyrene	202	22.449	22.449	(0.870)	1993516	50.0000	49.6997
$	71 Terphenyl-d14	244	22.834	22.834	(0.885)	1406456	50.0000	51.9320
	72 Butylbenzylphthalate	149	24.165	24.165	(0.936)	1143433	50.0000	51.6483
	73 bis(2-Ethylhexyl)phthalate	149	25.770	25.770	(0.999)	1311512	50.0000	52.4698
	74 3,3'-Dichlorobenzidine	252	25.687	25.687	(0.995)	562810	50.0000	54.8659

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG07.D
Report Date: 17-Mar-2006 10:20

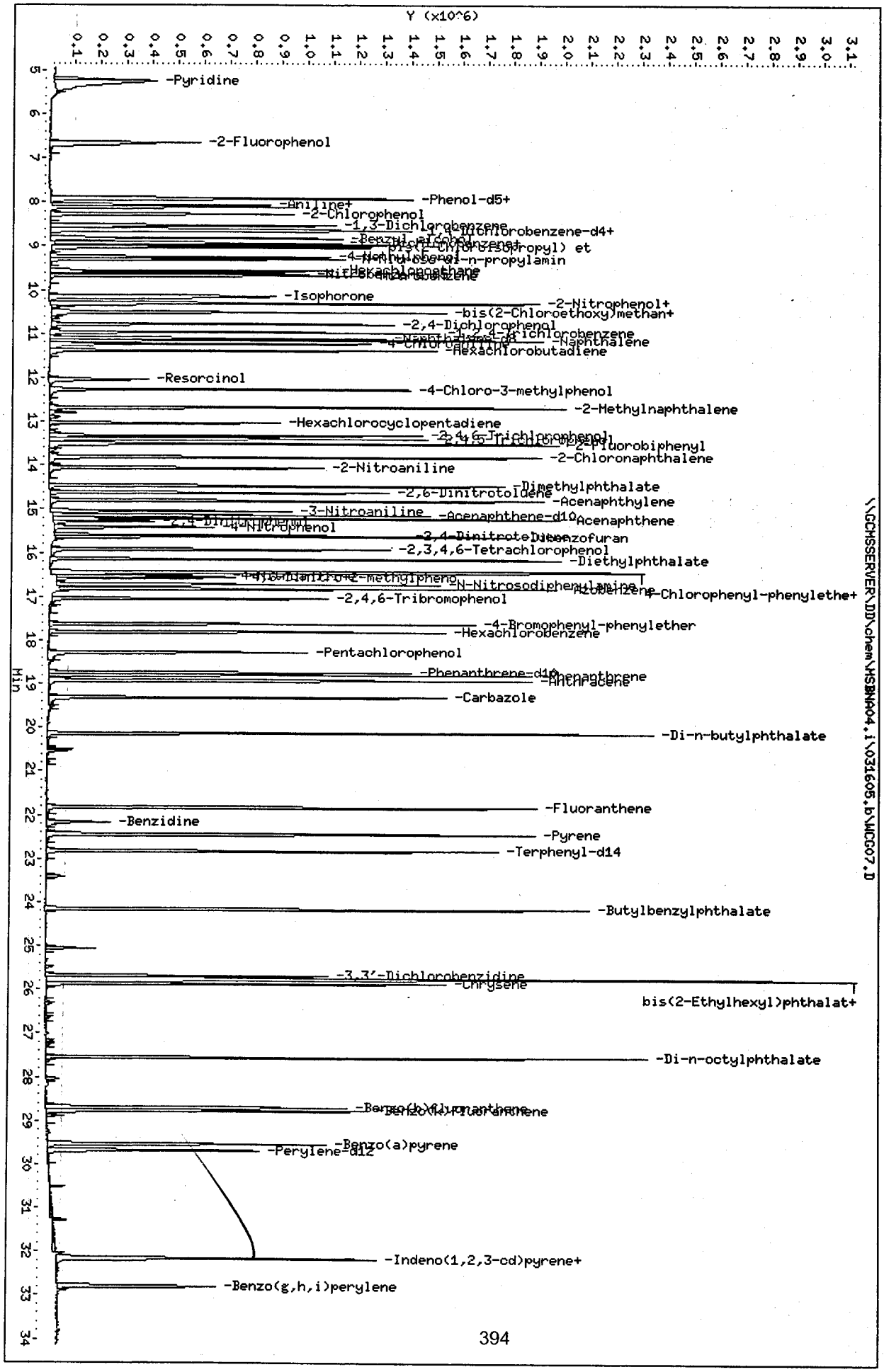
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Benzo(a)anthracene	228	25.761	25.761	(0.998)	1492083	50.0000	48.8038
* 76 Chrysene-d12	240	25.807	25.807	(1.000)	852160	40.0000	
77 Chrysene	228	25.880	25.880	(1.003)	1344836	50.0000	51.0746
78 Di-n-octylphthalate	149	27.559	27.559	(0.929)	2434224	50.0000	48.9401
79 Benzo(b)fluoranthene	252	28.696	28.696	(0.967)	1343267	50.0000	48.5167
80 Benzo(k)fluoranthene	252	28.770	28.770	(0.969)	1256535	50.0000	49.4764(A)
81 Benzo(a)pyrene	252	29.540	29.540	(0.995)	1123423	50.0000	50.9106
* 82 Perylene-d12	264	29.678	29.678	(1.000)	732494	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	32.164	32.164	(1.084)	939591	50.0000	50.7154
84 Dibenz(a,h)anthracene	278	32.173	32.173	(1.084)	772179	50.0000	51.1907
85 Benzo(g,h,i)perylene	276	32.797	32.797	(1.105)	732830	50.0000	49.9309

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\MCG07.D
Date : 16-MAR-2006 16:15
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2582
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG08.D
Report Date: 17-Mar-2006 10:20

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG08.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 16-MAR-2006 16:59 MS Autotune Date: 12-DEC-2005 12:21
Operator : LLH Inst ID: MSBNA04.i
Smp Info : ICAL,S2583
Misc Info : 80ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\6PTBNA4.m
Meth Date : 17-Mar-2006 10:20 target Quant Type: ISTD
Cal Date : 16-MAR-2006 16:59 Cal File: WCG08.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	5.262	5.258	(0.610)	1181212	80.0000	79.8250(Q)
2 N-Nitrosodimethylamine	74	5.207	5.203	(0.603)	748772	80.0000	78.0070(Q)
$ 3 2-Fluorophenol	112	6.665	6.652	(0.772)	998211	80.0000	79.4367(Q)
$ 4 Phenol-d5	99	7.922	7.909	(0.918)	1307149	80.0000	79.9114(Q)
5 Phenol	94	7.950	7.927	(0.921)	1350676	80.0000	80.0348(Q)
6 Aniline	66	8.078	8.065	(0.936)	585349	80.0000	78.7929(Q)
7 bis(2-Chloroethyl)ether	63	8.124	8.111	(0.942)	869347	80.0000	74.9879(Q)
8 2-Chlorophenol	128	8.280	8.267	(0.960)	1007767	80.0000	79.6009(Q)
9 1,3-Dichlorobenzene	146	8.537	8.533	(0.989)	1091749	80.0000	78.9728(Q)
* 10 1,4-Dichlorobenzene-d4	152	8.628	8.615	(1.000)	361377	40.0000	(Q)
11 1,4-Dichlorobenzene	146	8.656	8.652	(1.003)	1053438	80.0000	80.6843(Q)
12 1,2-Dichlorobenzene	146	8.940	8.927	(1.036)	1030481	80.0000	79.6426(Q)
13 Benzyl alcohol	108	8.839	8.817	(1.024)	806285	80.0000	79.6010(Q)
14 2-Methylphenol	107	8.986	8.973	(1.041)	866009	80.0000	79.4560(Q)
15 bis(2-Chloroisopropyl) ether	45	9.041	9.028	(1.048)	1769591	80.0000	85.2238
16 4-Methylphenol	107	9.271	9.257	(1.074)	1397297	80.0000	79.3404(QM)
17 N-Nitroso-di-n-propylamine	70	9.335	9.312	(1.082)	773512	80.0000	77.7716(Q)
18 Hexachloroethane	117	9.564	9.560	(1.108)	462852	80.0000	79.7067(Q)
$ 19 Nitrobenzene-d5	82	9.647	9.634	(0.868)	1207055	80.0000	79.2811(Q)
20 Nitrobenzene	77	9.683	9.670	(0.871)	1112224	80.0000	79.1910(Q)

3/20/06

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG08.D
Report Date: 17-Mar-2006 10:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	10.206	10.138	(0.918)	2659214	80.0000	79.4849(M)
	22 2-Nitrophenol	139	10.307	10.294	(0.927)	581643	80.0000	81.6256(Q)
	23 2,4-Dimethylphenol	122	10.335	10.312	(0.930)	835718	80.0000	76.9896(Q)
	24 bis(2-Chloroethoxy)methane	93	10.527	10.514	(0.947)	1374945	80.0000	80.1247(Q)
	25 2,4-Dichlorophenol	162	10.793	10.780	(0.971)	895335	80.0000	80.7124(Q)
	26 Benzoic acid	122	10.619	10.533	(0.955)	436669	80.0000	77.5970(Q)
	27 1,2,4-Trichlorobenzene	180	10.977	10.973	(0.988)	947437	80.0000	80.4319(Q)
*	28 Naphthalene-d8	136	11.114	11.110	(1.000)	1353355	40.0000	
	29 Naphthalene	128	11.170	11.156	(1.005)	2515305	80.0000	72.6006
	30 4-Chloroaniline	127	11.252	11.239	(1.012)	1244526	80.0000	82.7339(Q)
	31 Hexachlorobutadiene	225	11.399	11.395	(1.026)	569215	80.0000	80.4117(Q)
	32 Resorcinol	110	12.059	12.037	(1.085)	784902	80.0000	78.1002(A)
	33 4-Chloro-3-methylphenol	107	12.289	12.276	(1.106)	1062985	80.0000	79.3824(Q)
	34 2-Methylnaphthalene	142	12.692	12.679	(1.142)	1901589	80.0000	72.8122(Q)
	35 Hexachlorocyclopentadiene	237	13.041	13.037	(0.861)	447668	80.0000	88.0367(Q)
	36 2,4,6-Trichlorophenol	196	13.335	13.321	(0.880)	654038	80.0000	82.2963(Q)
	37 2,4,5-Trichlorophenol	196	13.417	13.404	(0.886)	718548	80.0000	84.4518(Q)
$	38 2-Fluorobiphenyl	172	13.527	13.514	(0.893)	2019268	80.0000	80.0483(Q)
	39 2-Chloronaphthalene	162	13.830	13.817	(0.913)	1899439	80.0000	79.6843(Q)
	40 2-Nitroaniline	65	14.087	14.064	(0.930)	684942	80.0000	78.7967(Q)
	41 Dimethylphthalate	163	14.500	14.468	(0.957)	2463114	80.0000	80.0522
	42 2,6-Dinitrotoluene	165	14.646	14.624	(0.967)	639183	80.0000	79.5019(Q)
	43 Acenaphthylene	152	14.821	14.807	(0.978)	2929181	80.0000	77.1356
	44 3-Nitroaniline	138	15.068	15.046	(0.995)	590007	80.0000	83.5384(Q)
*	45 Acenaphthene-d10	164	15.151	15.138	(1.000)	809200	40.0000	(Q)
	46 Acenaphthene	154	15.243	15.229	(1.006)	1623866	80.0000	76.9817(Q)
	47 2,4-Dinitrophenol	184	15.307	15.284	(1.010)	270312	80.0000	74.0022(Q)
	48 4-Nitrophenol	109	15.444	15.413	(1.019)	296441	80.0000	78.3294(Q)
	49 Dibenzofuran	168	15.646	15.633	(1.033)	2355556	80.0000	71.7305(Q)
	50 2,4-Dinitrotoluene	165	15.628	15.606	(1.031)	736358	80.0000	76.1760(Q)
	51 2,3,4,6-Tetrachlorophenol	232	15.940	15.927	(1.052)	584062	80.0000	85.4235(AQ)
	52 Diethylphthalate	149	16.178	16.156	(1.068)	2261778	80.0000	78.2000
	53 4-Chlorophenyl-phenylether	204	16.454	16.440	(1.086)	989916	80.0000	84.7951(Q)
	54 Fluorene	166	16.481	16.468	(1.088)	1774070	80.0000	84.1476(Q)
	55 4-Nitroaniline	138	16.582	16.541	(1.094)	491691	80.0000	83.9384(Q)
	56 4,6-Dinitro-2-methylphenol	198	16.619	16.587	(0.886)	375819	80.0000	75.7698(Q)
	57 N-Nitrosodiphenylamine	169	16.747	16.734	(0.893)	1290562	80.0000	78.7455(Q)
	58 Azobenzene	77	16.839	16.826	(0.898)	2299485	80.0000	79.9278
$	59 2,4,6-Tribromophenol	330	17.068	17.046	(1.127)	447790	80.0000	83.6420(Q)
	60 4-Bromophenyl-phenylether	248	17.646	17.633	(0.941)	687753	80.0000	77.6455(Q)
	61 Hexachlorobenzene	284	17.830	17.816	(0.951)	751784	80.0000	77.9414(Q)
	62 Pentachlorophenol	266	18.297	18.284	(0.976)	477553	80.0000	82.4389(Q)
*	63 Phenanthrene-d10	188	18.756	18.752	(1.000)	1272464	40.0000	
	64 Phenanthrene	178	18.830	18.816	(1.004)	2666306	80.0000	75.1169
	65 Anthracene	178	18.958	18.936	(1.011)	2708147	80.0000	76.1467
	66 Carbazole	167	19.334	19.321	(1.031)	2403093	80.0000	80.0531
	67 Di-n-butylphthalate	149	20.151	20.137	(1.074)	3866960	80.0000	81.7653
	68 Fluoranthene	202	21.848	21.834	(1.165)	3069410	80.0000	75.8961
	69 Benzidine	184	22.169	22.165	(0.859)	347041	80.0000	77.0932
	70 Pyrene	202	22.462	22.449	(0.870)	3108580	80.0000	76.3485
$	71 Terphenyl-d14	244	22.848	22.834	(0.885)	2118460	80.0000	77.0607
	72 Butylbenzylphthalate	149	24.178	24.165	(0.936)	1739400	80.0000	77.4014(Q)
	73 bis(2-Ethylhexyl)phthalate	149	25.783	25.770	(0.999)	1854451	80.0000	77.4003(Q)
	74 3,3'-Dichlorobenzidine	252	25.710	25.687	(0.996)	905589	80.0000	86.9713(Q)

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG08.D
Report Date: 17-Mar-2006 10:20

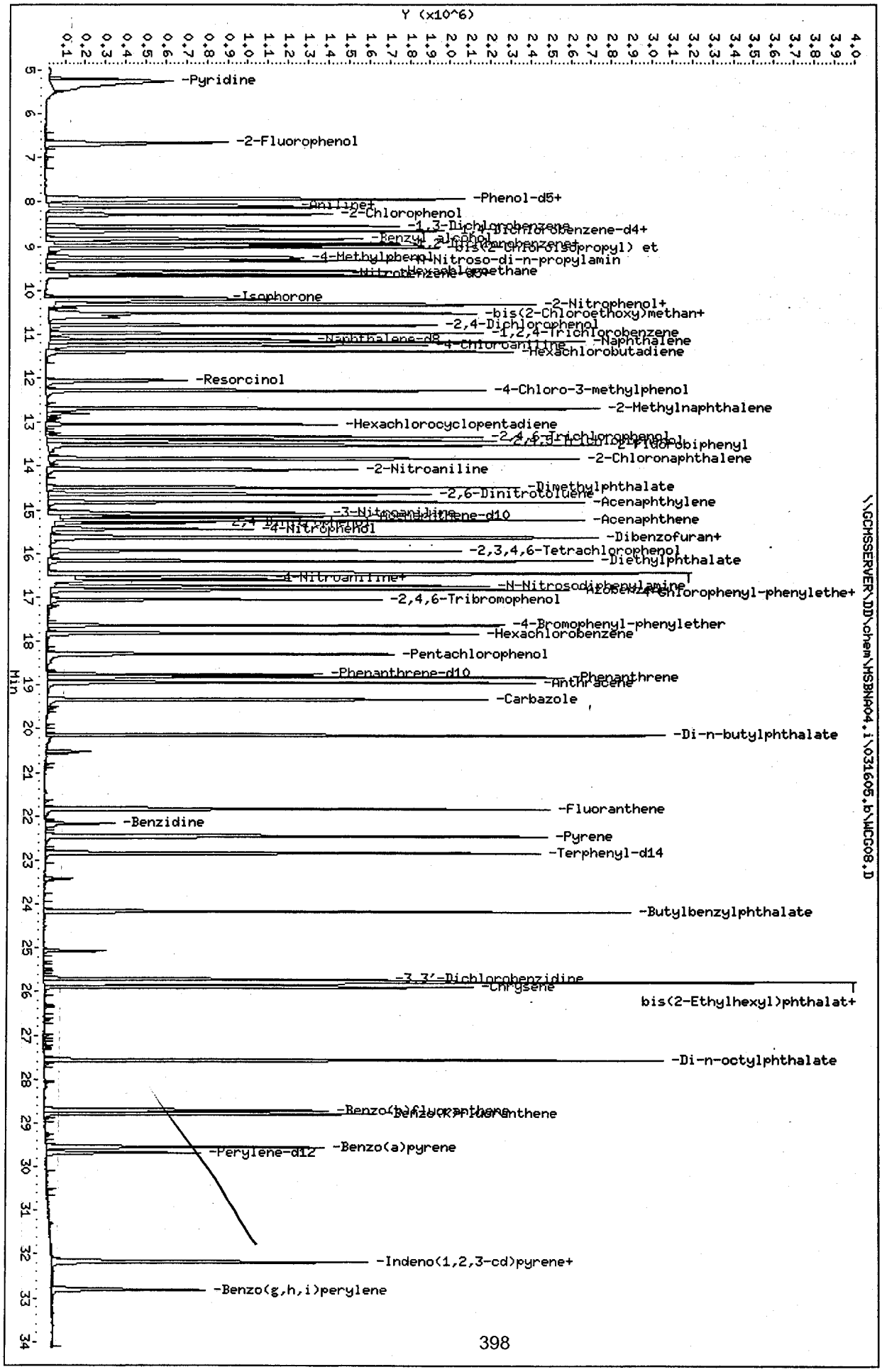
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Benzo(a)anthracene	228	25.783	25.761	(0.999)	2149771	80.0000	69.2719
* 76 Chrysene-d12	240	25.820	25.807	(1.000)	865002	40.0000	
77 Chrysene	228	25.902	25.880	(1.003)	2096643	80.0000	78.4449
78 Di-n-octylphthalate	149	27.572	27.559	(0.929)	3601207	80.0000	79.9581
79 Benzo(b)fluoranthene	252	28.719	28.696	(0.968)	1942203	80.0000	77.4701
80 Benzo(k)fluoranthene	252	28.792	28.770	(0.970)	1865752	80.0000	81.1313(A)
81 Benzo(a)pyrene	252	29.553	29.540	(0.996)	1574488	80.0000	78.7979
* 82 Perylene-d12	264	29.682	29.678	(1.000)	663275	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	32.168	32.164	(1.084)	1224962	80.0000	73.0187
84 Dibenz(a,h)anthracene	278	32.186	32.173	(1.084)	1020705	80.0000	74.7281
85 Benzo(g,h,i)perylene	276	32.810	32.797	(1.105)	954653	80.0000	71.8327

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCC08.D
Date : 16-MAR-2006 16:59
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2583
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG09.D
Report Date: 17-Mar-2006 10:21

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG09.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 16-MAR-2006 17:43 MS Autotune Date: 12-DEC-2005 12:21
Operator : LLH Inst ID: MSBNA04.i
Smp Info : ICAL,S2584
Misc Info : 100ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\6PTBNA4.m
Meth Date : 17-Mar-2006 10:20 target Quant Type: ISTD
Cal Date : 16-MAR-2006 17:43 Cal File: WCG09.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	5.265	5.258	(0.610)	1740880	100.000	103.1378
2 N-Nitrosodimethylamine	74	5.209	5.203	(0.604)	1108266	100.000	101.2199
$ 3 2-Fluorophenol	112	6.659	6.652	(0.772)	1458226	100.000	101.7329
$ 4 Phenol-d5	99	7.934	7.909	(0.919)	1849849	100.000	99.1420
5 Phenol	94	7.962	7.927	(0.922)	1844828	100.000	95.8344
6 Aniline	66	8.090	8.065	(0.937)	832334	100.000	98.2217
7 bis(2-Chloroethyl)ether	63	8.136	8.111	(0.943)	1148791	100.000	86.8714
8 2-Chlorophenol	128	8.283	8.267	(0.960)	1433690	100.000	99.2776
9 1,3-Dichlorobenzene	146	8.539	8.533	(0.989)	1524548	100.000	96.6793
* 10 1,4-Dichlorobenzene-d4	152	8.631	8.615	(1.000)	412214	40.0000	
11 1,4-Dichlorobenzene	146	8.659	8.652	(1.003)	1449725	100.000	97.3427
12 1,2-Dichlorobenzene	146	8.943	8.927	(1.036)	1433963	100.000	97.1586
13 Benzyl alcohol	108	8.861	8.817	(1.027)	1162956	100.000	100.6540
14 2-Methylphenol	107	8.989	8.973	(1.041)	1217742	100.000	97.9484
15 bis(2-Chloroisopropyl) ether	45	9.044	9.028	(1.048)	2218808	100.000	100.2017
16 4-Methylphenol	107	9.264	9.257	(1.073)	1993619	100.000	99.2397
17 N-Nitroso-di-n-propylamine	70	9.356	9.312	(1.084)	1063860	100.000	93.7727
18 Hexachloroethane	117	9.567	9.560	(1.108)	645607	100.000	97.4672
$ 19 Nitrobenzene-d5	82	9.659	9.634	(0.868)	1666459	100.000	98.3113
20 Nitrobenzene	77	9.695	9.670	(0.871)	1499057	100.000	95.8667

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG09.D
Report Date: 17-Mar-2006 10:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	10.246	10.138	(0.921)	3812269	100.000	102.3485
	22 2-Nitrophenol	139	10.319	10.294	(0.927)	821641	100.000	103.5663
	23 2,4-Dimethylphenol	122	10.347	10.312	(0.930)	1195153	100.000	98.8922
	24 bis(2-Chloroethoxy)methane	93	10.539	10.514	(0.947)	1852816	100.000	104.6091
	25 2,4-Dichlorophenol	162	10.815	10.780	(0.972)	1252514	100.000	101.4153
	26 Benzoic acid	122	10.695	10.533	(0.961)	775104	100.000	104.9747
	27 1,2,4-Trichlorobenzene	180	10.989	10.973	(0.988)	1257590	100.000	95.8922
*	28 Naphthalene-d8	136	11.126	11.110	(1.000)	1506765	40.0000	
	29 Naphthalene	128	11.182	11.156	(1.005)	3257393	100.000	84.4474
	30 4-Chloroaniline	127	11.273	11.239	(1.013)	1727632	100.000	103.1566
	31 Hexachlorobutadiene	225	11.402	11.395	(1.025)	744844	100.000	94.5093
	32 Resorcinol	110	12.081	12.037	(1.086)	1189668	100.000	103.6547(A)
	33 4-Chloro-3-methylphenol	107	12.301	12.276	(1.106)	1473002	100.000	98.8022
	34 2-Methylnaphthalene	142	12.704	12.679	(1.142)	2508425	100.000	86.2690
	35 Hexachlorocyclopentadiene	237	13.044	13.037	(0.861)	599456	100.000	102.8090
	36 2,4,6-Trichlorophenol	196	13.346	13.321	(0.881)	909683	100.000	99.8236
	37 2,4,5-Trichlorophenol	196	13.438	13.404	(0.887)	986576	100.000	101.1229
$	38 2-Fluorobiphenyl	172	13.530	13.514	(0.893)	2688322	100.000	92.9406
	39 2-Chloronaphthalene	162	13.842	13.817	(0.913)	2555639	100.000	93.5003
	40 2-Nitroaniline	65	14.099	14.064	(0.930)	981322	100.000	98.4537
	41 Dimethylphthalate	163	14.521	14.468	(0.958)	3303169	100.000	93.6236
	42 2,6-Dinitrotoluene	165	14.667	14.624	(0.968)	925503	100.000	100.3913
	43 Acenaphthylene	152	14.833	14.807	(0.979)	3820249	100.000	87.7337
	44 3-Nitroaniline	138	15.099	15.046	(0.996)	860523	100.000	106.2569
*	45 Acenaphthene-d10	164	15.154	15.138	(1.000)	927876	40.0000	
	46 Acenaphthene	154	15.255	15.229	(1.007)	2155094	100.000	89.0983
	47 2,4-Dinitrophenol	184	15.328	15.284	(1.012)	469890	100.000	99.6373
	48 4-Nitrophenol	109	15.475	15.413	(1.021)	456135	100.000	101.3639
	49 Dibenzofuran	168	15.667	15.633	(1.034)	2963730	100.000	78.7073
	50 2,4-Dinitrotoluene	165	15.649	15.606	(1.033)	897600	100.000	80.9800
	51 2,3,4,6-Tetrachlorophenol	232	15.952	15.927	(1.053)	833164	100.000	106.2710(A)
	52 Diethylphthalate	149	16.199	16.156	(1.069)	3001776	100.000	90.5109
	53 4-Chlorophenyl-phenylether	204	16.466	16.440	(1.087)	1249671	100.000	98.3466
	54 Fluorene	166	16.493	16.468	(1.088)	2272304	100.000	100.2119
	55 4-Nitroaniline	138	16.621	16.541	(1.097)	735122	100.000	109.4444
	56 4,6-Dinitro-2-methylphenol	198	16.649	16.587	(0.888)	597215	100.000	102.2346
	57 N-Nitrosodiphenylamine	169	16.768	16.734	(0.894)	1760597	100.000	95.9508
	58 Azobenzene	77	16.860	16.826	(0.899)	2987190	100.000	99.7674
$	59 2,4,6-Tribromophenol	330	17.080	17.046	(1.127)	604469	100.000	98.4669
	60 4-Bromophenyl-phenylether	248	17.649	17.633	(0.941)	921251	100.000	92.8973
	61 Hexachlorobenzene	284	17.842	17.816	(0.951)	1004644	100.000	93.0313
	62 Pentachlorophenol	266	18.309	18.284	(0.976)	680672	100.000	103.6537
*	63 Phenanthrene-d10	188	18.759	18.752	(1.000)	1424636	40.0000	
	64 Phenanthrene	178	18.841	18.816	(1.004)	3557123	100.000	89.5093
	65 Anthracene	178	18.970	18.936	(1.011)	3671567	100.000	92.2088
	66 Carbazole	167	19.355	19.321	(1.032)	3386869	100.000	100.7738
	67 Di-n-butylphthalate	149	20.162	20.137	(1.075)	4991006	100.000	99.9790
	68 Fluoranthene	202	21.860	21.834	(1.165)	4107195	100.000	90.7093
	69 Benzidine	184	22.181	22.165	(0.859)	479151	100.000	101.4257
	70 Pyrene	202	22.474	22.449	(0.870)	4162402	100.000	100.0443
$	71 Terphenyl-d14	244	22.850	22.834	(0.885)	2764578	100.000	98.4128
	72 Butylbenzylphthalate	149	24.190	24.165	(0.936)	2289761	100.000	99.7125
	73 bis(2-Ethylhexyl)phthalate	149	25.786	25.770	(0.998)	2371641	100.000	100.8823
	74 3,3'-Dichlorobenzidine	252	25.722	25.687	(0.996)	1144025	100.000	107.5203

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG09.D
Report Date: 17-Mar-2006 10:21

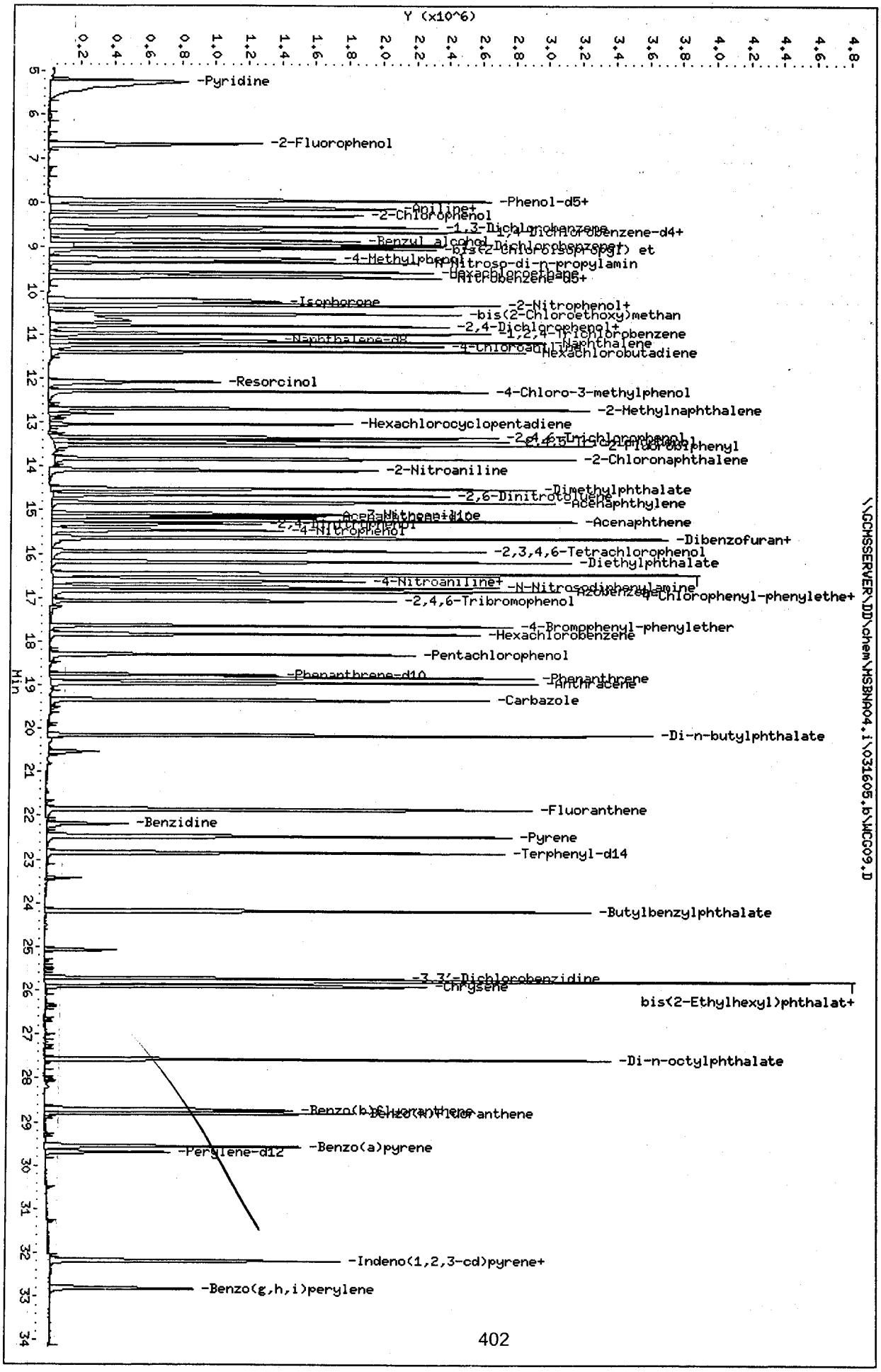
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Benzo(a)anthracene	228	25.804	25.761	(0.999)	2738908	100.000	86.3679
* 76 Chrysene-d12	240	25.832	25.807	(1.000)	883908	40.0000	
77 Chrysene	228	25.914	25.880	(1.003)	2694480	100.000	98.6564
78 Di-n-octylphthalate	149	27.575	27.559	(0.929)	4407490	100.000	105.4066
79 Benzo(b)fluoranthene	252	28.721	28.696	(0.968)	2451806	100.000	105.3385
80 Benzo(k)fluoranthene	252	28.804	28.770	(0.970)	2201874	100.000	103.1309(A)
81 Benzo(a)pyrene	252	29.565	29.540	(0.996)	1890956	100.000	101.9339
* 82 Perylene-d12	264	29.685	29.678	(1.000)	615789	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	32.180	32.164	(1.084)	1405590	100.000	90.2468
84 Dibenz(a,h)anthracene	278	32.189	32.173	(1.084)	1174370	100.000	92.6084
85 Benzo(g,h,i)perylene	276	32.822	32.797	(1.106)	1119597	100.000	90.7403

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCC09.D
Date : 16-MAR-2006 17:43
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2584
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG10.D
Report Date: 17-Mar-2006 10:21

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG10.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 16-MAR-2006 18:28 MS Autotune Date: 12-DEC-2005 12:21
Operator : LLH Inst ID: MSBNA04.i
Smp Info : ICAL,S2585
Misc Info : 120ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\6PTBNA4.m
Meth Date : 17-Mar-2006 10:21 target Quant Type: ISTD
Cal Date : 16-MAR-2006 18:28 Cal File: WCG10.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 Pyridine	79	5.267	5.258	(0.611)	2114710	120.000	124.5248
	2 N-Nitrosodimethylamine	74	5.221	5.203	(0.605)	1337723	120.000	121.4351
$	3 2-Fluorophenol	112	6.661	6.652	(0.772)	1777329	120.000	123.2425
$	4 Phenol-d5	99	7.936	7.909	(0.920)	2151345	120.000	114.6008
	5 Phenol	94	7.973	7.927	(0.924)	2132275	120.000	110.0944
	6 Aniline	66	8.101	8.065	(0.939)	980428	120.000	114.9958
	7 bis(2-Chloroethyl)ether	63	8.138	8.111	(0.944)	1263256	120.000	94.9475
	8 2-Chlorophenol	128	8.285	8.267	(0.961)	1724931	120.000	118.7200
	9 1,3-Dichlorobenzene	146	8.542	8.533	(0.990)	1764900	120.000	111.2420
*	10 1,4-Dichlorobenzene-d4	152	8.624	8.615	(1.000)	414731	40.0000	
	11 1,4-Dichlorobenzene	146	8.661	8.652	(1.004)	1654216	120.000	110.3993
	12 1,2-Dichlorobenzene	146	8.945	8.927	(1.037)	1631818	120.000	109.8933
	13 Benzyl alcohol	108	8.872	8.817	(1.029)	1404040	120.000	120.7823
	14 2-Methylphenol	107	9.000	8.973	(1.044)	1390053	120.000	111.1295
	15 bis(2-Chloroisopropyl) ether	45	9.046	9.028	(1.049)	2423863	120.000	115.6697
	16 4-Methylphenol	107	9.266	9.257	(1.074)	2407847	120.000	119.1321
	17 N-Nitroso-di-n-propylamine	70	9.367	9.312	(1.086)	1243407	120.000	108.9335
	18 Hexachloroethane	117	9.569	9.560	(1.110)	724738	120.000	108.7496
$	19 Nitrobenzene-d5	82	9.661	9.634	(0.868)	1982945	120.000	112.1330
	20 Nitrobenzene	77	9.707	9.670	(0.872)	1754102	120.000	107.5273

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG10.D
Report Date: 17-Mar-2006 10:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	10.257	10.138	(0.922)	4373581	120.000	112.5509(M)
	22 2-Nitrophenol	139	10.321	10.294	(0.927)	963222	120.000	116.3795
	23 2,4-Dimethylphenol	122	10.358	10.312	(0.931)	1398010	120.000	110.8824
	24 bis(2-Chloroethoxy)methane	93	10.551	10.514	(0.948)	2066487	120.000	115.1353
	25 2,4-Dichlorophenol	162	10.817	10.780	(0.972)	1464298	120.000	113.6487
	26 Benzoic acid	122	10.743	10.533	(0.965)	994939	120.000	121.8970(QM)
	27 1,2,4-Trichlorobenzene	180	10.991	10.973	(0.988)	1462195	120.000	106.8719
*	28 Naphthalene-d8	136	11.129	11.110	(1.000)	1571924	40.0000	
	29 Naphthalene	128	11.184	11.156	(1.005)	3780123	120.000	93.9369
	30 4-Chloroaniline	127	11.275	11.239	(1.013)	2045613	120.000	117.0802
	31 Hexachlorobutadiene	225	11.404	11.395	(1.025)	885527	120.000	107.7024
	32 Resorcinol	110	12.092	12.037	(1.087)	1442791	120.000	119.2982(A)
	33 4-Chloro-3-methylphenol	107	12.312	12.276	(1.106)	1715339	120.000	110.2878
	34 2-Methylnaphthalene	142	12.706	12.679	(1.142)	2808883	120.000	92.5980
	35 Hexachlorocyclopentadiene	237	13.046	13.037	(0.861)	738560	120.000	125.5871
	36 2,4,6-Trichlorophenol	196	13.358	13.321	(0.881)	1059737	120.000	115.2993
	37 2,4,5-Trichlorophenol	196	13.440	13.404	(0.887)	1125478	120.000	114.3777
$	38 2-Fluorobiphenyl	172	13.541	13.514	(0.893)	2994189	120.000	102.6334
	39 2-Chloronaphthalene	162	13.853	13.817	(0.914)	2929203	120.000	106.2548
	40 2-Nitroaniline	65	14.110	14.064	(0.931)	1143209	120.000	113.7187
	41 Dimethylphthalate	163	14.532	14.468	(0.959)	3768650	120.000	105.9073
	42 2,6-Dinitrotoluene	165	14.679	14.624	(0.969)	1085832	120.000	116.7795
	43 Acenaphthylene	152	14.835	14.807	(0.979)	4463453	120.000	101.6322
	44 3-Nitroaniline	138	15.110	15.046	(0.997)	1015295	120.000	124.3004
*	45 Acenaphthene-d10	164	15.156	15.138	(1.000)	935846	40.0000	
	46 Acenaphthene	154	15.257	15.229	(1.007)	2418614	120.000	99.1415
	47 2,4-Dinitrophenol	184	15.339	15.284	(1.012)	628630	120.000	124.2229
	48 4-Nitrophenol	109	15.495	15.413	(1.022)	565795	120.000	121.3692
	49 Dibenzofuran	168	15.670	15.633	(1.034)	3222943	120.000	84.8622
	50 2,4-Dinitrotoluene	165	15.660	15.606	(1.033)	999032	120.000	89.3635
	51 2,3,4,6-Tetrachlorophenol	232	15.963	15.927	(1.053)	969574	120.000	122.6171(A)
	52 Diethylphthalate	149	16.211	16.156	(1.070)	3449631	120.000	103.1290
	53 4-Chlorophenyl-phenylether	204	16.468	16.440	(1.087)	1388095	120.000	114.4305
	54 Fluorene	166	16.504	16.468	(1.089)	2529200	120.000	117.4402
	55 4-Nitroaniline	138	16.651	16.541	(1.099)	864139	120.000	127.5568(H)
	56 4,6-Dinitro-2-methylphenol	198	16.669	16.587	(0.888)	751914	120.000	122.5483
	57 N-Nitrosodiphenylamine	169	16.780	16.734	(0.894)	2039110	120.000	108.2832
	58 Azobenzene	77	16.862	16.826	(0.898)	3242932	120.000	108.6737
$	59 2,4,6-Tribromophenol	330	17.082	17.046	(1.127)	699962	120.000	113.0515
	60 4-Bromophenyl-phenylether	248	17.660	17.633	(0.941)	1056427	120.000	103.7998
	61 Hexachlorobenzene	284	17.853	17.816	(0.951)	1126471	120.000	101.6409
	62 Pentachlorophenol	266	18.312	18.284	(0.976)	815059	120.000	120.1466
*	63 Phenanthrene-d10	188	18.770	18.752	(1.000)	1462083	40.0000	
	64 Phenanthrene	178	18.853	18.816	(1.004)	4041502	120.000	99.0933
	65 Anthracene	178	18.981	18.936	(1.011)	4130582	120.000	101.0797
	66 Carbazole	167	19.357	19.321	(1.031)	3925065	120.000	113.7963
	67 Di-n-butylphthalate	149	20.165	20.137	(1.074)	5624806	120.000	114.4398
	68 Fluoranthene	202	21.871	21.834	(1.165)	4534557	120.000	97.5828
	69 Benzidine	184	22.183	22.165	(0.859)	588449	120.000	123.6235
	70 Pyrene	202	22.486	22.449	(0.870)	4710077	120.000	114.0355
$	71 Terphenyl-d14	244	22.862	22.834	(0.885)	3100070	120.000	111.1624
	72 Butylbenzylphthalate	149	24.192	24.165	(0.936)	2563147	120.000	112.4336
	73 bis(2-Ethylhexyl)phthalate	149	25.788	25.770	(0.998)	2704568	120.000	119.0186
	74 3,3'-Dichlorobenzidine	252	25.733	25.687	(0.996)	1270931	120.000	120.3207

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG10.D
Report Date: 17-Mar-2006 10:21

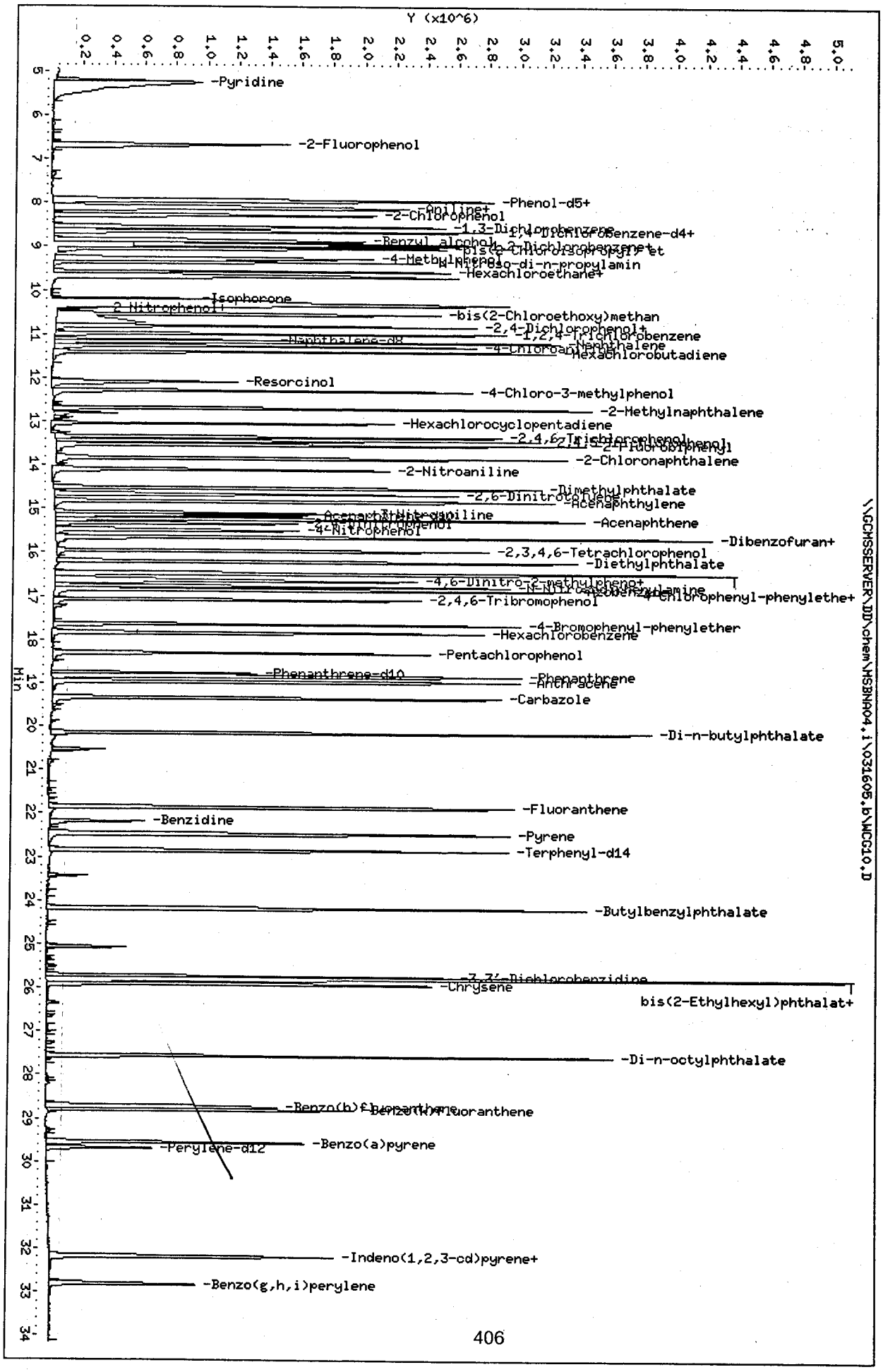
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Benzo(a)anthracene	228	25.806	25.761	(0.999)	3011315	120.000	95.6521
* 76 Chrysene-d12	240	25.834	25.807	(1.000)	877493	40.0000	
77 Chrysene	228	25.926	25.880	(1.004)	3029283	120.000	111.7258
78 Di-n-octylphthalate	149	27.577	27.559	(0.929)	4849796	120.000	121.7392
79 Benzo(b)fluoranthene	252	28.742	28.696	(0.968)	2956908	120.000	133.3428
80 Benzo(k)fluoranthene	252	28.806	28.770	(0.971)	2271588	120.000	111.6751(A)
81 Benzo(a)pyrene	252	29.568	29.540	(0.996)	2091989	120.000	118.3661
* 82 Perylene-d12	264	29.678	29.678	(1.000)	586680	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	32.173	32.164	(1.084)	1568402	120.000	105.6967
84 Dibenz(a,h)anthracene	278	32.200	32.173	(1.085)	1298718	120.000	107.4956
85 Benzo(g,h,i)perylene	276	32.824	32.797	(1.106)	1250167	120.000	106.3499

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG10.D
Date : 16-MAR-2006 18:28
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2585
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG11.D
Report Date: 17-Mar-2006 10:21

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG11.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 16-MAR-2006 19:14 MS Autotune Date: 12-DEC-2005 12:21
Operator : LLH Inst ID: MSBNA04.i
Smp Info : ICAL,S2586
Misc Info : 160ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\6PTBNA4.m
Meth Date : 17-Mar-2006 10:21 target Quant Type: ISTD
Cal Date : 16-MAR-2006 19:14 Cal File: WCG11.D
Als bottle: 10 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	5.272	5.258	(0.611)	2505038	160.000	169.5998
2 N-Nitrosodimethylamine	74	5.217	5.203	(0.605)	1551366	160.000	161.9192
$ 3 2-Fluorophenol	112	6.666	6.652	(0.773)	2070669	160.000	165.0857
$ 4 Phenol-d5	99	7.941	7.909	(0.920)	2424685	160.000	148.5042
5 Phenol	94	7.978	7.927	(0.925)	2385007	160.000	141.5851
6 Aniline	66	8.097	8.065	(0.938)	1116384	160.000	150.5517
7 bis(2-Chloroethyl)ether	63	8.143	8.111	(0.944)	1348359	160.000	116.5209
8 2-Chlorophenol	128	8.290	8.267	(0.961)	1993739	160.000	157.7707
9 1,3-Dichlorobenzene	146	8.547	8.533	(0.990)	1972366	160.000	142.9362
* 10 1,4-Dichlorobenzene-d4	152	8.629	8.615	(1.000)	360712	40.0000	
11 1,4-Dichlorobenzene	146	8.666	8.652	(1.004)	1825628	160.000	140.0853
12 1,2-Dichlorobenzene	146	8.941	8.927	(1.036)	1778956	160.000	137.7434
13 Benzyl alcohol	108	8.895	8.817	(1.031)	1611522	160.000	159.3918
14 2-Methylphenol	107	9.005	8.973	(1.044)	1566654	160.000	144.0049
15 bis(2-Chloroisopropyl) ether	45	9.060	9.028	(1.050)	2534531	160.000	160.7403
16 4-Methylphenol	107	9.280	9.257	(1.075)	2738856	160.000	155.8027
17 N-Nitroso-di-n-propylamine	70	9.381	9.312	(1.087)	1398769	160.000	140.8965
18 Hexachloroethane	117	9.565	9.560	(1.108)	805044	160.000	138.8904
$ 19 Nitrobenzene-d5	82	9.666	9.634	(0.868)	2230795	160.000	140.2959
20 Nitrobenzene	77	9.712	9.670	(0.872)	1947845	160.000	132.7947

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG11.D
Report Date: 17-Mar-2006 10:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	10.280	10.138	(0.923)	4692615	160.000	134.3041
	22 2-Nitrophenol	139	10.326	10.294	(0.927)	1038274	160.000	139.5162
	23 2,4-Dimethylphenol	122	10.363	10.312	(0.931)	1584901	160.000	139.8032
	24 bis(2-Chloroethoxy)methane	93	10.556	10.514	(0.948)	2326848	160.000	160.5420
	25 2,4-Dichlorophenol	162	10.831	10.780	(0.973)	1646942	160.000	142.1595
	26 Benzoic acid	122	10.776	10.533	(0.968)	1239827	160.000	156.7678(QM)
	27 1,2,4-Trichlorobenzene	180	10.996	10.973	(0.988)	1654580	160.000	134.4958
*	28 Naphthalene-d8	136	11.134	11.110	(1.000)	1413413	40.0000	
	29 Naphthalene	128	11.189	11.156	(1.005)	4169637	160.000	115.2367
	30 4-Chloroaniline	127	11.280	11.239	(1.013)	2308882	160.000	146.9685
	31 Hexachlorobutadiene	225	11.409	11.395	(1.025)	972046	160.000	131.4839
	32 Resorcinol	110	12.106	12.037	(1.087)	1700875	160.000	154.1129(A)
	33 4-Chloro-3-methylphenol	107	12.317	12.276	(1.106)	2005498	160.000	143.4043
	34 2-Methylnaphthalene	142	12.711	12.679	(1.142)	3145873	160.000	115.3378
	35 Hexachlorocyclopentadiene	237	13.051	13.037	(0.861)	848254	160.000	162.6266
	36 2,4,6-Trichlorophenol	196	13.363	13.321	(0.881)	1217534	160.000	149.3538
	37 2,4,5-Trichlorophenol	196	13.445	13.404	(0.887)	1279804	160.000	146.6406
$	38 2-Fluorobiphenyl	172	13.537	13.514	(0.893)	3415765	160.000	132.0092
	39 2-Chloronaphthalene	162	13.849	13.817	(0.913)	3290695	160.000	134.5839
	40 2-Nitroaniline	65	14.115	14.064	(0.931)	1330021	160.000	149.1664
	41 Dimethylphthalate	163	14.546	14.468	(0.959)	4305476	160.000	136.4168
	42 2,6-Dinitrotoluene	165	14.693	14.624	(0.969)	1264653	160.000	153.3493
	43 Acenaphthylene	152	14.840	14.807	(0.979)	5031982	160.000	129.1831
	44 3-Nitroaniline	138	15.124	15.046	(0.998)	1199371	160.000	165.5543
*	45 Acenaphthene-d10	164	15.161	15.138	(1.000)	830038	40.0000	
	46 Acenaphthene	154	15.262	15.229	(1.007)	2744518	160.000	126.8415
	47 2,4-Dinitrophenol	184	15.353	15.284	(1.013)	756325	160.000	159.8379
	48 4-Nitrophenol	109	15.519	15.413	(1.024)	689480	160.000	159.1923
	49 Dibenzofuran	168	15.674	15.633	(1.034)	3791574	160.000	112.5609
	50 2,4-Dinitrotoluene	165	15.684	15.606	(1.034)	1177546	160.000	118.7586
	51 2,3,4,6-Tetrachlorophenol	232	15.968	15.927	(1.053)	1118696	160.000	159.5102(A)
	52 Diethylphthalate	149	16.225	16.156	(1.070)	3944798	160.000	132.9657
	53 4-Chlorophenyl-phenylether	204	16.473	16.440	(1.087)	1527305	160.000	161.9971
	54 Fluorene	166	16.509	16.468	(1.089)	2946874	160.000	184.7261
	55 4-Nitroaniline	138	16.665	16.541	(1.099)	1024163	160.000	170.4494(H)
	56 4,6-Dinitro-2-methylphenol	198	16.684	16.587	(0.889)	894530	160.000	159.4536
	57 N-Nitrosodiphenylamine	169	16.794	16.734	(0.895)	2254838	160.000	134.4521(H)
	58 Azobenzene	77	16.867	16.826	(0.899)	3822750	160.000	168.7366
$	59 2,4,6-Tribromophenol	330	17.087	17.046	(1.127)	787818	160.000	143.4611
	60 4-Bromophenyl-phenylether	248	17.665	17.633	(0.941)	1216595	160.000	134.2255
	61 Hexachlorobenzene	284	17.858	17.816	(0.952)	1284688	160.000	130.1602
	62 Pentachlorophenol	266	18.316	18.284	(0.976)	953133	160.000	156.2754
*	63 Phenanthrene-d10	188	18.766	18.752	(1.000)	1302088	40.0000	
	64 Phenanthrene	178	18.858	18.816	(1.005)	4634197	160.000	127.5873
	65 Anthracene	178	18.986	18.936	(1.012)	4694532	160.000	128.9961
	66 Carbazole	167	19.362	19.321	(1.032)	4444539	160.000	144.6904
	67 Di-n-butylphthalate	149	20.170	20.137	(1.075)	6338757	160.000	162.2984
	68 Fluoranthene	202	21.876	21.834	(1.166)	5160676	160.000	124.7029
	69 Benzidine	184	22.179	22.165	(0.858)	641347	160.000	155.9443
	70 Pyrene	202	22.490	22.449	(0.870)	5234261	160.000	148.7201
$	71 Terphenyl-d14	244	22.867	22.834	(0.885)	3491312	160.000	146.9188
	72 Butylbenzylphthalate	149	24.197	24.165	(0.936)	2861566	160.000	147.3089
	73 bis(2-Ethylhexyl)phthalate	149	25.793	25.770	(0.998)	2951453	160.000	160.5612
	74 3,3'-Dichlorobenzidine	252	25.738	25.687	(0.996)	1331328	160.000	147.9128

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG11.D
Report Date: 17-Mar-2006 10:21

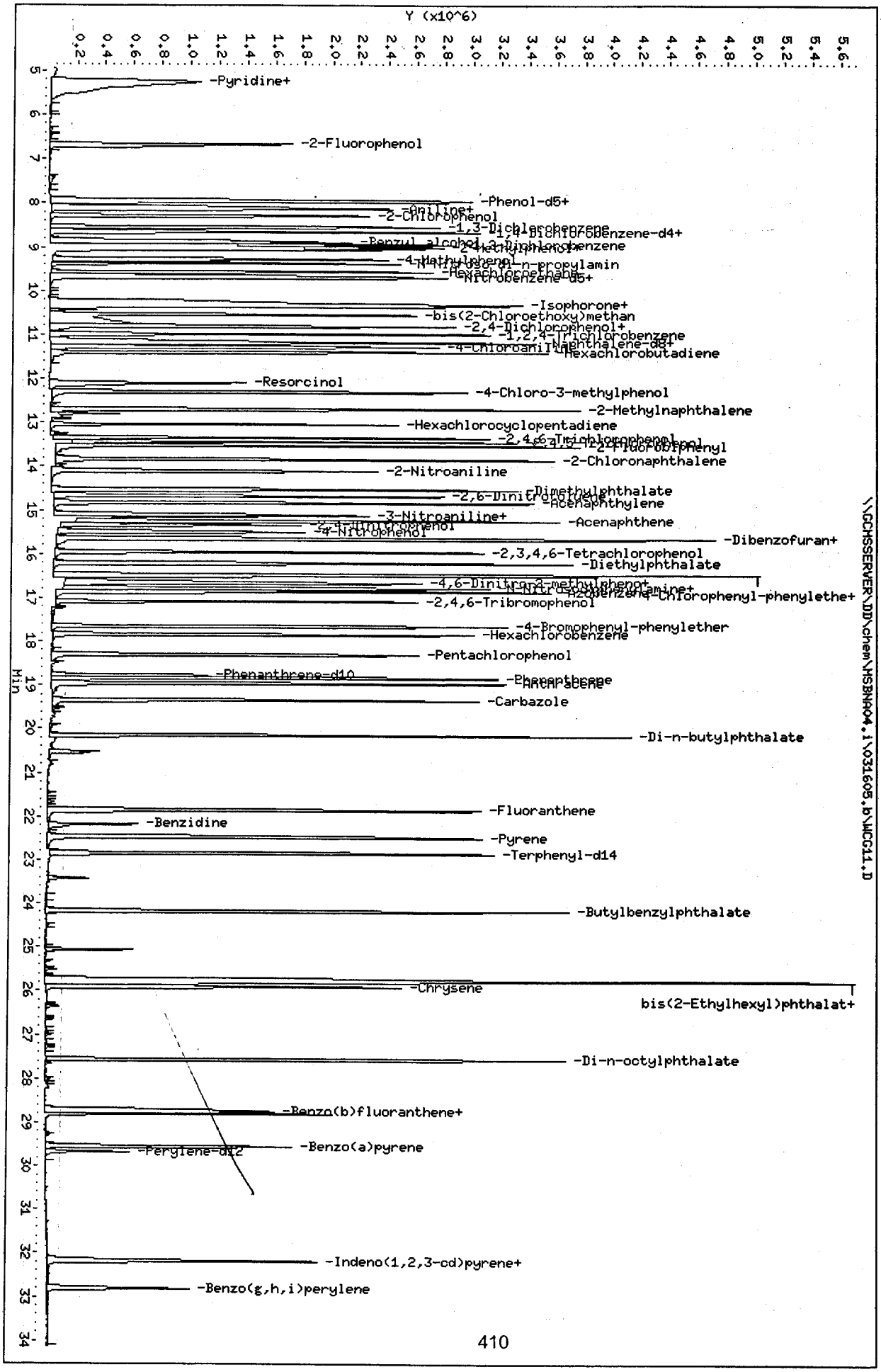
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Benzo(a)anthracene	228	25.811	25.761	(0.999)	3309804	160.000	123.3795
* 76 Chrysene-d12	240	25.839	25.807	(1.000)	747724	40.0000	
77 Chrysene	228	25.931	25.880	(1.004)	3322657	160.000	143.8141
78 Di-n-octylphthalate	149	27.582	27.559	(0.929)	5287971	160.000	159.6432
79 Benzo(b)fluoranthene	252	28.747	28.696	(0.968)	3275186	160.000	177.6323
80 Benzo(k)fluoranthene	252	28.811	28.770	(0.971)	2399518	160.000	141.8747(A)
81 Benzo(a)pyrene	252	29.573	29.540	(0.996)	2284256	160.000	155.4415
* 82 Perylene-d12	264	29.683	29.678	(1.000)	487806	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	32.178	32.164	(1.084)	1698604	160.000	137.6735
84 Dibenz(a,h)anthracene	278	32.196	32.173	(1.085)	1401498	160.000	139.5156
85 Benzo(g,h,i)perylene	276	32.820	32.797	(1.106)	1363894	160.000	139.5417

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG11.D
Date : 16-MAR-2006 19:14
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2586
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG02.D

Date : 16-MAR-2006 12:43

Client ID: dftpp tune std

Instrument: MSBNA04.i

Sample Info: TUN,S1637

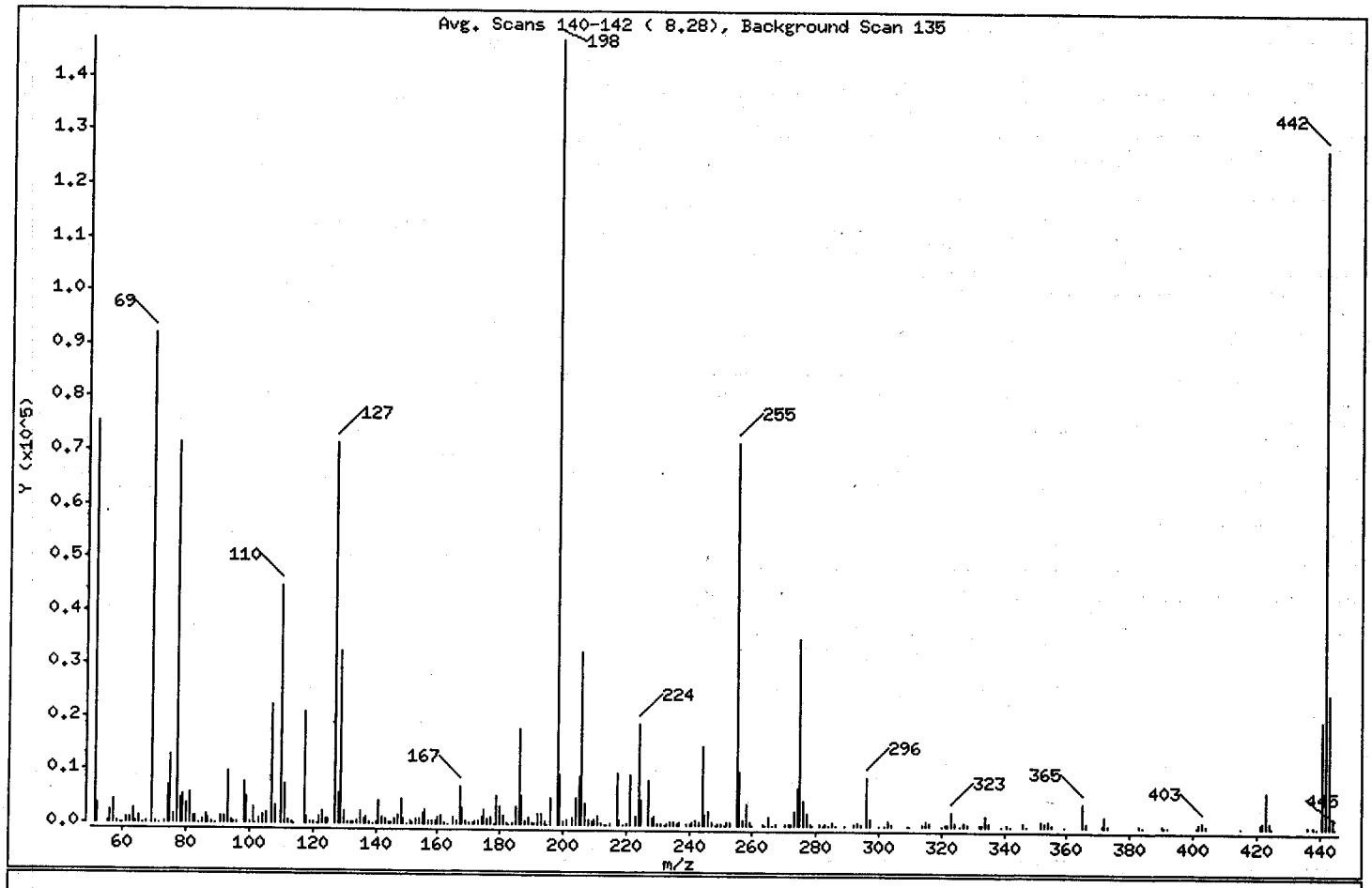
Volume Injected (uL): 1.0

Operator: LLH

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	51.29
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	62.45
70	Less than 2.00% of mass 69	0.34 (0.54)
127	40.00 - 60.00% of mass 198	48.42
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.52
275	10.00 - 30.00% of mass 198	23.92
365	Greater than 1.00% of mass 198	2.98
441	Present, but less than mass 443	13.65
442	40.00 - 99.99% of mass 198	86.46
443	17.00 - 23.00% of mass 442	16.97 (19.63)

3/21/06

03/24/06

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG02.D

Date : 16-MAR-2006 12:43

Client ID: dftpp tune std

Instrument: MSBNA04.i

Sample Info: TUN,S1637

Volume Injected (uL): 1.0

Operator: LLH

Column phase: Xti 5

Column diameter: 0.25

Data File: WCG02.D

Spectrum: Avg. Scans 140-142 (8.28), Background Scan 135

Location of Maximum: 198.00

Number of points: 277

m/z	Y	m/z	Y	m/z	Y	m/z	Y
51.00	75448	132.00	368	205.00	9244	285.00	619
52.00	3597	133.00	347	206.00	32544	286.00	62
55.00	258	134.00	814	207.00	4108	289.00	123
56.00	2391	135.00	2362	208.00	1093	292.00	210
57.00	4396	136.00	1106	209.00	509	293.00	702
58.00	226	137.00	1185	210.00	930	294.00	225
59.00	57	138.00	309	211.00	1637	296.00	9192
60.00	144	139.00	97	212.00	223	297.00	1301
61.00	976	140.00	311	213.00	119	300.00	56
62.00	997	141.00	4276	214.00	52	302.00	168
63.00	2565	142.00	1414	215.00	417	303.00	902
64.00	377	143.00	974	217.00	9791	304.00	344
65.00	1448	144.00	194	218.00	1119	309.00	50
66.00	59	145.00	212	219.00	91	310.00	59
67.00	248	146.00	902	220.00	180	314.00	409
69.00	91864	147.00	1548	221.00	9390	315.00	967
70.00	495	148.00	4797	223.00	1765	316.00	687
71.00	23	149.00	1015	224.00	19048	320.00	74
73.00	255	150.00	55	225.00	4575	321.00	258
74.00	7193	151.00	811	227.00	8547	322.00	199
75.00	12896	152.00	275	228.00	1379	323.00	2853
76.00	1708	153.00	1178	229.00	1744	324.00	631
77.00	71176	154.00	913	230.00	354	326.00	53
78.00	4740	155.00	1979	231.00	501	327.00	634
79.00	5493	156.00	2797	232.00	107	328.00	299
80.00	3764	157.00	612	233.00	205	332.00	209
81.00	5594	158.00	746	234.00	561	333.00	330
82.00	1454	159.00	610	235.00	687	334.00	1986
83.00	1487	160.00	1359	236.00	497	335.00	608
84.00	141	161.00	1669	237.00	674	339.00	51
85.00	644	162.00	366	239.00	429	341.00	434
86.00	1689	163.00	161	240.00	313	342.00	129
87.00	920	165.00	1444	241.00	530	346.00	645
88.00	302	166.00	814	242.00	1100	347.00	63
89.00	154	167.00	7263	243.00	612	352.00	877

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG02.D

Date : 16-MAR-2006 12:43

Client ID: dftpp tune std

Instrument: MSBNA04.i

Sample Info: TUN,S1637

Volume Injected (uL): 1.0

Operator: LLH

Column phase: Xti 5

Column diameter: 0.25

Data File: WCG02.D

Spectrum: Avg. Scans 140-142 (8.28), Background Scan 135

Location of Maximum: 198.00

Number of points: 277

m/z	Y	m/z	Y	m/z	Y	m/z	Y
91.00	1361	168.00	3040	244.00	14994	353.00	727
92.00	1435	169.00	559	245.00	1966	354.00	911
93.00	9662	170.00	248	246.00	2781	355.00	191
94.00	720	171.00	352	247.00	666	359.00	53
95.00	273	172.00	836	248.00	151	365.00	4388
96.00	175	173.00	810	249.00	460	366.00	663
98.00	7812	174.00	1365	250.00	193	371.00	233
99.00	5037	175.00	2695	251.00	169	372.00	1878
100.00	345	176.00	933	252.00	626	373.00	341
101.00	2905	177.00	1247	253.00	583	383.00	442
102.00	162	178.00	140	255.00	71744	384.00	70
103.00	983	179.00	5393	256.00	10287	390.00	242
104.00	1843	180.00	3512	257.00	1118	391.00	64
105.00	2059	181.00	1806	258.00	4011	392.00	117
107.00	22256	182.00	376	259.00	529	401.00	152
108.00	3496	183.00	67	260.00	104	402.00	631
110.00	44752	184.00	367	263.00	204	403.00	1066
111.00	7391	185.00	3489	264.00	139	404.00	410
112.00	794	186.00	17952	265.00	1619	415.00	89
113.00	352	187.00	5443	266.00	68	421.00	843
114.00	69	188.00	654	267.00	226	422.00	1036
117.00	20968	189.00	1358	270.00	279	423.00	6774
118.00	1467	190.00	303	271.00	264	424.00	1147
119.00	304	191.00	469	272.00	383	425.00	133
120.00	344	192.00	1994	273.00	2715	436.00	191
121.00	107	193.00	1919	274.00	7142	438.00	267
122.00	1440	194.00	589	275.00	35192	439.00	100
123.00	2404	195.00	152	276.00	4858	441.00	20072
124.00	1045	196.00	5062	277.00	2446	442.00	127184
125.00	1132	198.00	147072	278.00	396	443.00	24968
127.00	71232	199.00	9588	279.00	150	444.00	1961
128.00	5808	200.00	788	281.00	186	445.00	54
129.00	32416	201.00	895	282.00	96		
130.00	2395	203.00	1456	283.00	187		
131.00	490	204.00	5226	284.00	158		

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG02.D

Date : 16-MAR-2006 12:43

Client ID: dftpp tune std

Instrument: MSBNA04.i

Sample Info: TUN,S1637

Volume Injected (uL): 1.0

Operator: LLH

Column phase: Xti 5

Column diameter: 0.25

Data File: WCG02.D

Spectrum: Avg. Scans 140-142 (8.28), Background Scan 135

Location of Maximum: 198.00

Number of points: 277

m/z	Y	m/z	Y	m/z	Y	m/z	Y

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG02.D

Page 1

Date : 16-MAR-2006 12:43

Client ID: dftpp tune std

Instrument: MSBNA04.i

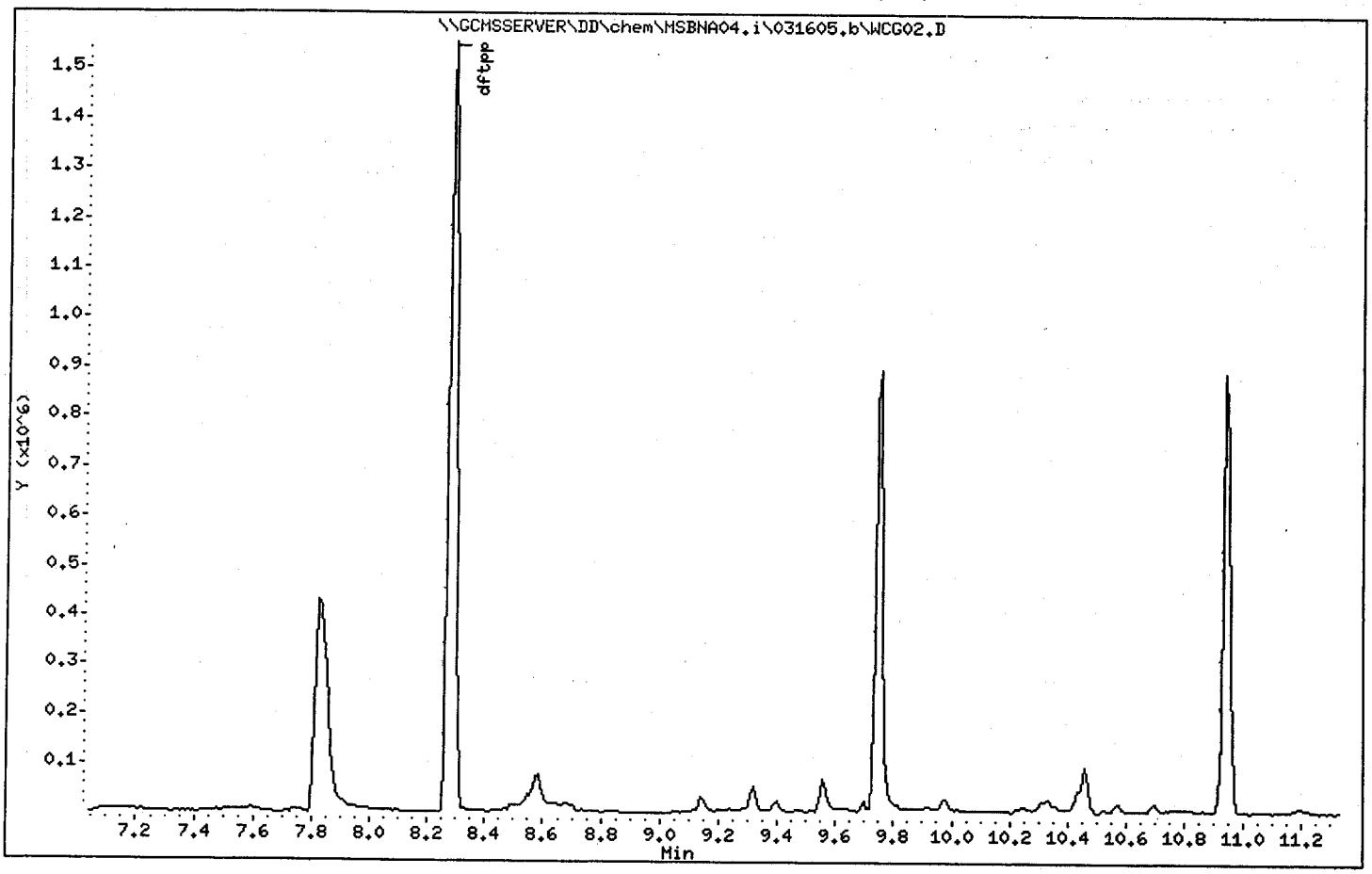
Sample Info: TUN,S1637

Volume Injected (uL): 1.0

Operator: LLH

Column phase: Xti 5

Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSBNA04.i\031705.b\WCH01.D

Date : 17-MAR-2006 11:11

Client ID: dftpp tune std

Instrument: MSBNA04.i

Sample Info: TUN,S1637

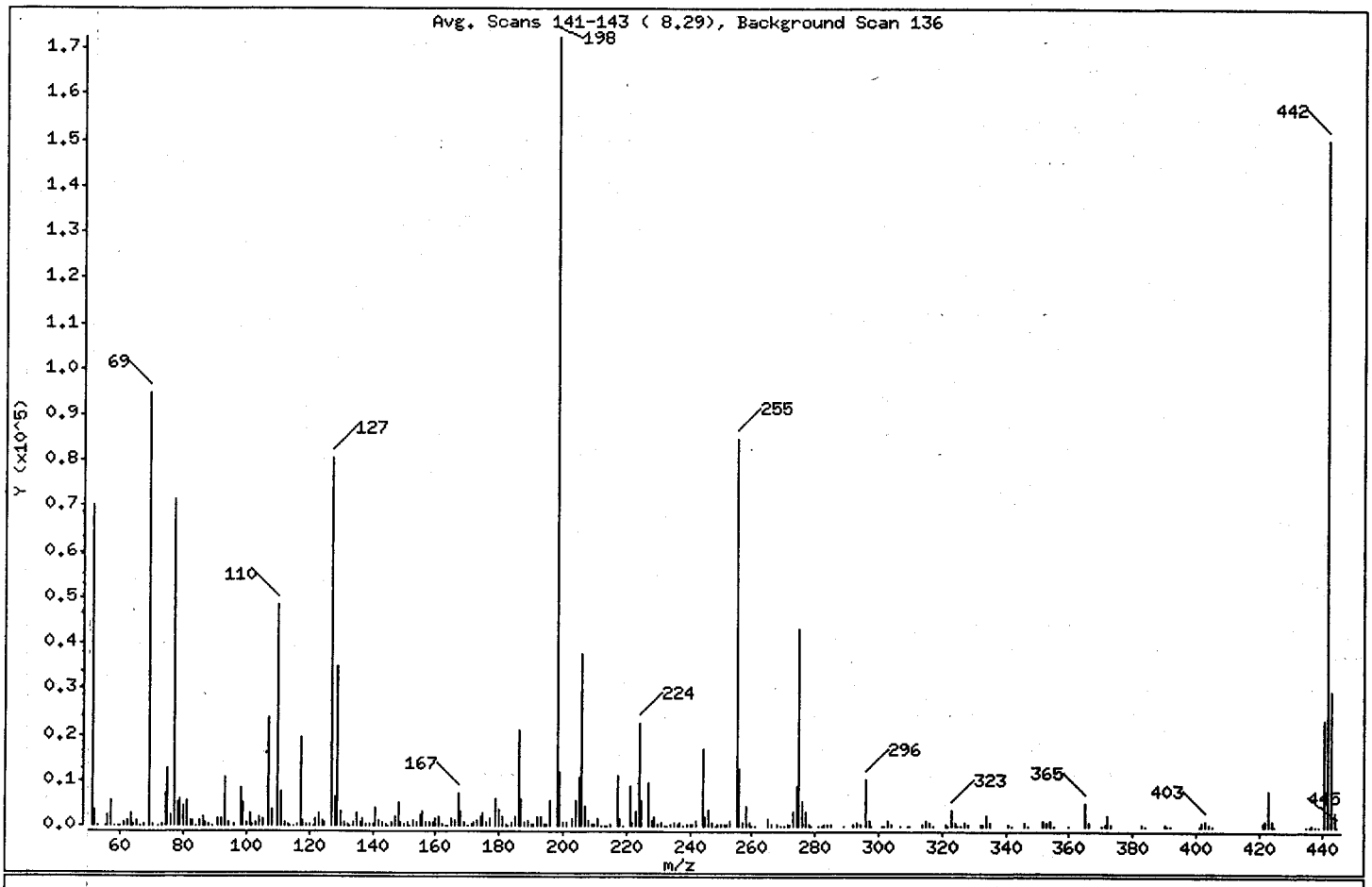
Volume Injected (uL): 1.0

Operator: LLH

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	40.66
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	55.04
70	Less than 2.00% of mass 69	0.13 (0.23)
127	40.00 - 60.00% of mass 198	46.56
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.80
275	10.00 - 30.00% of mass 198	25.11
365	Greater than 1.00% of mass 198	2.90
441	Present, but less than mass 443	13.60
442	40.00 - 99.99% of mass 198	87.09
443	17.00 - 23.00% of mass 442	17.32 (19.89)

OK AD 3.21.06

a 03/21/06

Data File: \\Gcmsserver\DD\chem\MSBNA04.i\031705.b\WCH01.D

Date : 17-MAR-2006 11:11

Client ID: dftpp tune std

Instrument: MSBNA04.i

Sample Info: TUN,S1637

Volume Injected (uL): 1.0

Operator: LLH

Column phase: Xti 5

Column diameter: 0.25

Data File: WCH01.D

Spectrum: Avg. Scans 141-143 (8.29), Background Scan 136

Location of Maximum: 198.00

Number of points: 283

m/z	Y	m/z	Y	m/z	Y	m/z	Y
51.00	70136	131.00	784	205.00	10621	289.00	63
52.00	3626	132.00	258	206.00	37792	292.00	201
53.00	70	133.00	120	207.00	4409	293.00	700
55.00	182	134.00	752	208.00	1031	294.00	277
56.00	2221	135.00	2679	209.00	281	296.00	10369
57.00	5480	136.00	957	210.00	362	297.00	1348
58.00	34	137.00	1448	211.00	1669	298.00	130
59.00	136	138.00	369	212.00	162	301.00	103
60.00	56	139.00	234	213.00	85	302.00	145
61.00	784	140.00	310	214.00	84	303.00	1384
62.00	1263	141.00	4139	215.00	460	304.00	311
63.00	2814	142.00	1310	217.00	11034	307.00	80
64.00	391	143.00	859	218.00	1475	309.00	138
65.00	1236	144.00	237	219.00	142	310.00	108
66.00	149	145.00	182	221.00	8871	314.00	525
67.00	295	146.00	890	222.00	726	315.00	1069
69.00	94928	147.00	2096	223.00	3087	316.00	743
70.00	221	148.00	5061	224.00	22640	317.00	59
72.00	62	149.00	968	225.00	5398	321.00	268
73.00	301	150.00	313	227.00	9444	322.00	118
74.00	7262	151.00	735	228.00	1259	323.00	3575
75.00	12619	152.00	112	229.00	1858	324.00	748
76.00	2410	153.00	1369	230.00	332	325.00	53
77.00	71320	154.00	753	231.00	802	326.00	62
78.00	5046	155.00	2210	232.00	192	327.00	678
79.00	5826	156.00	3168	233.00	87	328.00	282
80.00	4192	157.00	673	234.00	565	332.00	284
81.00	5440	158.00	867	235.00	638	333.00	405
82.00	1349	159.00	612	236.00	477	334.00	2260
83.00	1084	160.00	1396	237.00	731	335.00	625
84.00	72	161.00	1842	238.00	72	341.00	510
85.00	1068	162.00	504	239.00	418	342.00	53
86.00	1816	163.00	27	240.00	297	346.00	754
87.00	836	164.00	136	241.00	560	347.00	89
88.00	364	165.00	1591	242.00	1192	352.00	1044

Data File: \\Gcmsserver\DD\chem\MSBNA04.i\031705.b\WCH01.D

Date : 17-MAR-2006 11:11

Client ID: dftpp tune std

Instrument: MSBNA04.i

Sample Info: TUN,S1637

Volume Injected (uL): 1.0

Operator: LLH

Column phase: Xti 5

Column diameter: 0.25

Data File: WCH01.D

Spectrum: Avg. Scans 141-143 (8.29), Background Scan 136

Location of Maximum: 198.00

Number of points: 283

m/z	Y	m/z	Y	m/z	Y	m/z	Y
89.00	172	166.00	1176	244.00	17040	353.00	840
91.00	1574	167.00	7282	245.00	2088	354.00	1256
92.00	1457	168.00	3168	246.00	3495	355.00	135
93.00	10603	169.00	706	247.00	757	360.00	50
94.00	809	170.00	167	248.00	126	365.00	4998
96.00	349	171.00	385	249.00	549	366.00	833
98.00	8252	172.00	725	250.00	233	370.00	63
99.00	5339	173.00	1006	251.00	437	371.00	339
100.00	691	174.00	1798	252.00	510	372.00	2262
101.00	2791	175.00	2792	253.00	1063	373.00	549
102.00	271	176.00	919	255.00	84856	383.00	530
103.00	944	177.00	1407	256.00	12595	384.00	71
104.00	1995	179.00	5999	257.00	844	390.00	265
105.00	1486	180.00	3734	258.00	4542	391.00	112
107.00	23664	181.00	1967	259.00	685	392.00	188
108.00	3637	182.00	364	260.00	122	401.00	58
110.00	48216	183.00	178	261.00	58	402.00	876
111.00	7393	184.00	646	265.00	1662	403.00	1217
112.00	826	185.00	2037	266.00	525	404.00	300
113.00	251	186.00	20920	268.00	325	405.00	52
114.00	62	187.00	5829	269.00	69	421.00	947
115.00	181	188.00	677	270.00	142	422.00	1066
116.00	594	189.00	1048	271.00	344	423.00	8122
117.00	19312	190.00	314	272.00	339	424.00	1375
118.00	1242	191.00	581	273.00	3110	425.00	162
119.00	227	192.00	1856	274.00	8537	435.00	52
120.00	361	193.00	1962	275.00	43304	436.00	53
121.00	85	194.00	365	276.00	5540	437.00	288
122.00	1642	195.00	497	277.00	3365	438.00	118
123.00	2725	196.00	5385	278.00	584	439.00	183
124.00	1169	198.00	172480	279.00	57	441.00	23456
125.00	962	199.00	11725	281.00	112	442.00	150208
127.00	80304	200.00	919	282.00	56	443.00	29880
128.00	6451	201.00	938	283.00	362	444.00	3010
129.00	34984	203.00	1445	284.00	307	445.00	178

Data File: \\Gcmsserver\DD\chem\MSBNA04.i\031705.b\WCH01.D

Date : 17-MAR-2006 11:11

Client ID: dftpp tune std

Instrument: MSBNA04.i

Sample Info: TUN,S1637

Volume Injected (uL): 1.0

Operator: LLH

Column phase: Xti 5

Column diameter: 0.25

Data File: WCH01.D

Spectrum: Avg. Scans 141-143 (8.29), Background Scan 136

Location of Maximum: 198.00

Number of points: 283

m/z	Y	m/z	Y	m/z	Y	m/z	Y
130.00	3108	204.00	5680	285.00	454		

Data File: \\Gcmsserver\DD\chem\MSBNA04.i\031705.b\WCH01.D

Date : 17-MAR-2006 11:11

Client ID: dftpp tune std

Instrument: MSBNA04.i

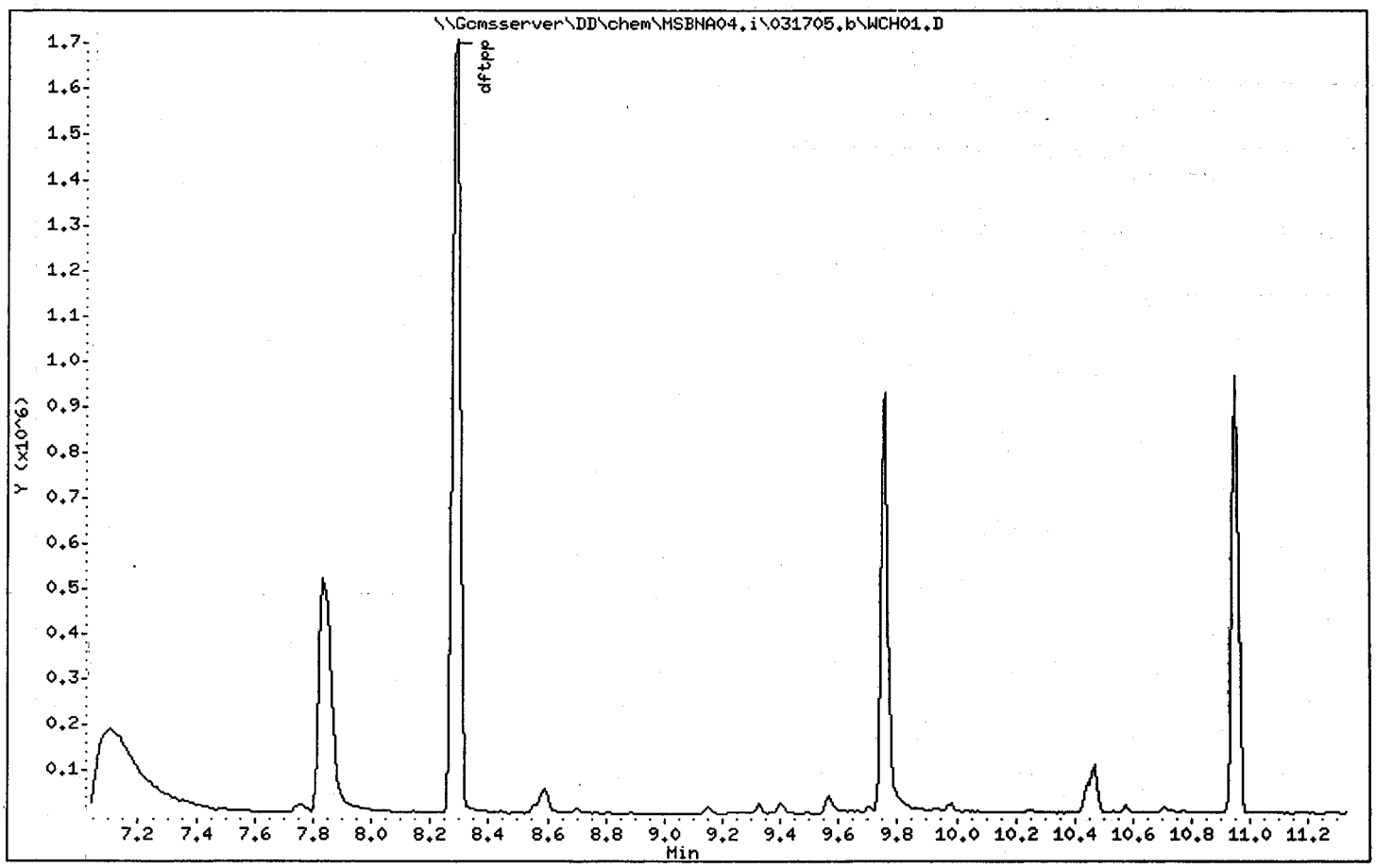
Sample Info: TUN,S1637

Volume Injected (uL): 1.0

Operator: LLH

Column phase: Xti 5

Column diameter: 0.25



CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185511 MSBNA Water
EPA 8270C

Inst : MSBNA04 Name : 6PTBNA4
Calnum : 536108715001 Cal Date: 16-MAR-2006

ICV 536110111003 (wch03 17-MAR-2006) stds: S1959

Analyte	Spiked	Quant	Units	%D	Max	Flags
Phenol	80.00	79.30	ng	-1	20	
bis(2-Chloroethyl)ether	80.00	74.19	ng	-7	30	
2-Chlorophenol	80.00	73.13	ng	-9	30	
1,3-Dichlorobenzene	80.00	72.28	ng	-10	30	
1,4-Dichlorobenzene	80.00	74.32	ng	-7	20	
Benzyl alcohol	80.00	74.56	ng	-7	30	
1,2-Dichlorobenzene	80.00	68.98	ng	-14	30	
2-Methylphenol	80.00	73.39	ng	-8	30	
bis(2-Chloroisopropyl) ether	80.00	78.24	ng	-2	30	
4-Methylphenol	80.00	74.49	ng	-7	30	
N-Nitroso-di-n-propylamine	80.00	78.73	ng	-2	30	
Hexachloroethane	80.00	74.51	ng	-7	30	
Nitrobenzene	80.00	67.98	ng	-15	30	
Isophorone	80.00	68.90	ng	-14	30	
2-Nitrophenol	80.00	73.51	ng	-8	20	
2,4-Dimethylphenol	80.00	72.03	ng	-10	30	
bis(2-Chloroethoxy)methane	80.00	68.32	ng	-15	30	
Benzoic acid	80.00	80.29	ng	0	40	
2,4-Dichlorophenol	80.00	73.33	ng	-8	20	
1,2,4-Trichlorobenzene	80.00	69.74	ng	-13	30	
Naphthalene	80.00	66.08	ng	-17	30	
4-Chloroaniline	80.00	68.47	ng	-14	30	
Hexachlorobutadiene	80.00	68.28	ng	-15	20	
4-Chloro-3-methylphenol	80.00	69.33	ng	-13	20	
2-Methylnaphthalene	80.00	64.79	ng	-19	30	
Hexachlorocyclopentadiene	80.00	83.26	ng	4	40	
2,4,6-Trichlorophenol	80.00	76.02	ng	-5	20	
2,4,5-Trichlorophenol	80.00	79.01	ng	-1	30	
2-Chloronaphthalene	80.00	72.60	ng	-9	30	
2-Nitroaniline	80.00	76.17	ng	-5	30	
Dimethylphthalate	80.00	76.59	ng	-4	30	
2,6-Dinitrotoluene	80.00	70.66	ng	-12	30	
Acenaphthylene	80.00	71.79	ng	-10	30	
3-Nitroaniline	80.00	79.04	ng	-1	30	
Acenaphthene	80.00	72.58	ng	-9	20	
2,4-Dinitrophenol	80.00	72.18	ng	-10	40	
4-Nitrophenol	80.00	73.33	ng	-8	40	
Dibenzofuran	80.00	70.70	ng	-12	30	
2,4-Dinitrotoluene	80.00	73.76	ng	-8	30	
Diethylphthalate	80.00	75.39	ng	-6	30	
Fluorene	80.00	78.44	ng	-2	30	
4-Chlorophenyl-phenylether	80.00	77.30	ng	-3	40	
4-Nitroaniline	80.00	81.88	ng	2	30	
4,6-Dinitro-2-methylphenol	80.00	78.28	ng	-2	30	
N-Nitrosodiphenylamine	80.00	81.18	ng	1	20	
4-Bromophenyl-phenylether	80.00	69.46	ng	-13	30	
Hexachlorobenzene	80.00	68.59	ng	-14	30	
Pentachlorophenol	80.00	71.27	ng	-11	20	
Phenanthrene	80.00	66.76	ng	-17	30	

Analyte	Spiked	Quant	Units	%D	Max	Flags
Anthracene	80.00	68.02	ng	-15	30	
Di-n-butylphthalate	80.00	70.73	ng	-12	30	
Fluoranthene	80.00	67.83	ng	-15	20	
Pyrene	80.00	69.00	ng	-14	30	
Butylbenzylphthalate	80.00	69.21	ng	-13	30	
3,3'-Dichlorobenzidine	80.00	72.36	ng	-10	40	
Benzo(a)anthracene	80.00	60.38	ng	**-25**	30	!v-
bis(2-Ethylhexyl)phthalate	80.00	68.14	ng	-15	30	
Chrysene	80.00	74.83	ng	-6	30	
Di-n-octylphthalate	80.00	72.96	ng	-9	20	
Benzo(b)fluoranthene	80.00	76.84	ng	-4	30	
Benzo(k)fluoranthene	80.00	78.67	ng	-2	30	
Benzo(a)pyrene	80.00	75.81	ng	-5	20	
Indeno(1,2,3-cd)pyrene	80.00	76.89	ng	-4	30	
Dibenz(a,h)anthracene	80.00	78.47	ng	-2	30	
Benzo(g,h,i)perylene	80.00	79.66	ng	0	30	

!=warning -=low bias v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185511 MSBNA Water
EPA 8270C

Inst : MSBNA04 IDF : 1.0
Seqnum : 536114537003 File : wck03 Time : 20-MAR-2006 12:57
Cal : 536108715001 Caldate: 16-MAR-2006
Standards: S2583

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Phenol	1.8680	1.8797	80.00	80.50	ng	1	20	0.0500	
bis(2-Chloroethyl)ether	1.2832	1.2718	80.00	79.29	ng	-1	30	0.0500	
2-Chlorophenol	1.4013	1.4126	80.00	80.64	ng	1	30	0.0500	
1,3-Dichlorobenzene	1.5302	1.5252	80.00	79.74	ng	0	30	0.0500	
1,4-Dichlorobenzene	1.4452	1.4706	80.00	81.41	ng	2	20	0.0500	
Benzyl alcohol	1.1212	1.1297	80.00	80.61	ng	1	30	0.0500	
1,2-Dichlorobenzene	1.4322	1.4324	80.00	80.01	ng	0	30	0.0500	
2-Methylphenol	1.2064	1.2068	80.00	80.03	ng	0	30	0.0500	
bis(2-Chloroisopropyl) ether	2.4525	2.6636	80.00	98.42	ng	**23**	30	0.0500	!c+
4-Methylphenol	1.9494	1.8767	80.00	77.02	ng	-4	30	0.0500	
N-Nitroso-di-n-propylamine	1.1009	1.1045	80.00	80.26	ng	0	30	0.0500	
Hexachloroethane	0.6428	0.6372	80.00	79.31	ng	-1	30	0.0500	
Nitrobenzene	0.4151	0.4285	80.00	82.58	ng	3	30	0.0500	
Isophorone	0.9888	1.0078	80.00	81.53	ng	2	30	0.0500	m
2-Nitrophenol	0.2106	0.2178	80.00	82.74	ng	3	20	0.0500	
2,4-Dimethylphenol	0.3208	0.3179	80.00	79.26	ng	-1	30	0.0500	
bis(2-Chloroethoxy)methane	0.5227	0.5252	80.00	83.87	ng	5	30	0.0500	
Benzoic acid	0.1788	0.1800	80.00	82.92	ng	4	40	0.0500	m
2,4-Dichlorophenol	0.3279	0.3338	80.00	81.44	ng	2	20	0.0500	
1,2,4-Trichlorobenzene	0.3482	0.3528	80.00	81.06	ng	1	30	0.0500	
Naphthalene	1.0240	0.9614	80.00	75.11	ng	-6	30	0.0500	
4-Chloroaniline	0.4446	0.4737	80.00	85.23	ng	7	30	0.0500	
Hexachlorobutadiene	0.2092	0.2159	80.00	82.55	ng	3	20	0.0500	
4-Chloro-3-methylphenol	0.3958	0.4072	80.00	82.30	ng	3	20	0.0500	
2-Methylnaphthalene	0.7719	0.7405	80.00	76.75	ng	-4	30	0.0500	
Hexachlorocyclopentadiene	0.2514	0.2707	80.00	86.17	ng	8	40	0.0500	
2,4,6-Trichlorophenol	0.3928	0.4120	80.00	83.90	ng	5	20	0.0500	
2,4,5-Trichlorophenol	0.4206	0.4431	80.00	84.29	ng	5	30	0.0500	
2-Chloronaphthalene	1.1783	1.2007	80.00	81.52	ng	2	30	0.0500	
2-Nitroaniline	0.4297	0.4336	80.00	80.72	ng	1	30	0.0500	
Dimethylphthalate	1.5210	1.5294	80.00	80.45	ng	1	30	0.0500	
2,6-Dinitrotoluene	0.3974	0.3973	80.00	79.98	ng	0	30	0.0500	
Acenaphthylene	1.8771	1.8076	80.00	77.04	ng	-4	30	0.0500	
3-Nitroaniline	0.3491	0.3557	80.00	81.51	ng	2	30	0.0500	
Acenaphthene	1.0427	1.0177	80.00	78.08	ng	-2	20	0.0500	
2,4-Dinitrophenol	0.1608	0.1744	80.00	76.19	ng	-5	40	0.0500	
4-Nitrophenol	0.1709	0.1751	80.00	75.29	ng	-6	40	0.0500	
Dibenzofuran	1.6233	1.5111	80.00	74.47	ng	-7	30	0.0500	
2,4-Dinitrotoluene	0.4778	0.4723	80.00	79.08	ng	-1	30	0.0500	
Diethylphthalate	1.4297	1.4039	80.00	78.56	ng	-2	30	0.0500	
Fluorene	1.2358	1.1255	80.00	87.70	ng	10	30	0.0500	
4-Chlorophenyl-phenylether	0.6498	0.6412	80.00	91.17	ng	14	40	0.0500	
4-Nitroaniline	0.2896	0.3123	80.00	86.29	ng	8	30	0.0500	
4,6-Dinitro-2-methylphenol	0.1260	0.1617	80.00	81.77	ng	2	30	0.0500	
N-Nitrosodiphenylamine	0.5152	0.5127	80.00	79.62	ng	0	20	0.0500	
4-Bromophenyl-phenylether	0.2784	0.2805	80.00	80.58	ng	1	30	0.0500	
Hexachlorobenzene	0.3032	0.3103	80.00	81.88	ng	2	30	0.0500	
Pentachlorophenol	0.1618	0.2006	80.00	87.81	ng	10	20	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Phenanthrene	1.1158	1.0746	80.00	77.05	ng	-4	30	0.0500	
Anthracene	1.1180	1.0859	80.00	77.71	ng	-3	30	0.0500	
Di-n-butylphthalate	1.6026	1.5391	80.00	83.24	ng	4	30	0.0500	
Fluoranthene	1.2713	1.2359	80.00	77.77	ng	-3	20	0.0500	
Pyrene	1.8828	1.7245	80.00	73.27	ng	-8	30	0.0500	
Butylbenzylphthalate	1.0392	0.9627	80.00	74.11	ng	-7	30	0.0500	
3,3'-Dichlorobenzidine	0.4815	0.5136	80.00	85.34	ng	7	40	0.0500	
Benzo(a)anthracene	1.4351	1.2540	80.00	69.91	ng	-13	30	0.0500	
bis(2-Ethylhexyl)phthalate	1.3203	1.0256	80.00	72.59	ng	-9	30	0.0500	
Chrysene	1.2360	1.2082	80.00	78.21	ng	-2	30	0.0500	
Di-n-octylphthalate	2.7161	2.5224	80.00	74.29	ng	-7	20	0.0500	
Benzo(b)fluoranthene	1.5119	1.4462	80.00	76.52	ng	-4	30	0.0500	
Benzo(k)fluoranthene	1.3869	1.3702	80.00	79.04	ng	-1	30	0.0500	
Benzo(a)pyrene	1.2050	1.1860	80.00	78.74	ng	-2	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.0117	0.9372	80.00	74.11	ng	-7	30	0.0500	
Dibenz(a,h)anthracene	0.8237	0.7818	80.00	75.93	ng	-5	30	0.0500	
Benzo(g,h,i)perylene	0.8015	0.7343	80.00	73.30	ng	-8	30	0.0500	
2-Fluorophenol	1.3909	1.3669	80.00	78.62	ng	-2	30	0.0500	
Phenol-d5	1.8106	1.8256	80.00	80.66	ng	1	30	0.0500	
Nitrobenzene-d5	0.4500	0.4634	80.00	82.38	ng	3	30	0.0500	
2-Fluorobiphenyl	1.2469	1.2739	80.00	81.73	ng	2	30	0.0500	
2,4,6-Tribromophenol	0.2646	0.2895	80.00	87.53	ng	9	30	0.0500	
Terphenyl-d14	1.2712	1.1926	80.00	75.05	ng	-6	30	0.0500	

!=warning +=high bias c=CCV m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185511 MSBNA Water
EPA 8270C

Inst : MSBNA08 IDF : 1.0
Seqnum : 576114421006 File : sck06 Time : 20-MAR-2006 16:21
Cal : 576098484001 Caldate: 09-MAR-2006
Standards: S2582

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Phenol	2.1162	2.0626	50.00	48.73	ng	-3	20	0.0500	
bis(2-Chloroethyl)ether	1.5542	1.6283	50.00	52.38	ng	5	30	0.0500	
2-Chlorophenol	1.5613	1.6590	50.00	53.13	ng	6	30	0.0500	
1,3-Dichlorobenzene	1.6734	1.7142	50.00	51.22	ng	2	30	0.0500	
1,4-Dichlorobenzene	1.6951	1.7772	50.00	52.42	ng	5	20	0.0500	
Benzyl alcohol	1.1470	1.0943	50.00	47.70	ng	-5	30	0.0500	
1,2-Dichlorobenzene	1.5593	1.6699	50.00	53.54	ng	7	30	0.0500	
2-Methylphenol	1.1949	1.2490	50.00	52.26	ng	5	30	0.0500	
bis(2-Chloroisopropyl) ether	3.7280	4.5366	50.00	60.84	ng	**22**	30	0.0500	!c+
4-Methylphenol	1.9016	1.9660	50.00	51.69	ng	3	30	0.0500	
N-Nitroso-di-n-propylamine	1.2051	1.1374	50.00	47.19	ng	-6	30	0.0500	
Hexachloroethane	0.7720	0.8238	50.00	53.35	ng	7	30	0.0500	
Nitrobenzene	0.4793	0.4476	50.00	46.69	ng	-7	30	0.0500	
Isophorone	0.9420	0.8992	50.00	47.73	ng	-5	30	0.0500	
2-Nitrophenol	0.2140	0.2303	50.00	53.81	ng	8	20	0.0500	
2,4-Dimethylphenol	0.3223	0.3336	50.00	51.76	ng	4	30	0.0500	
bis(2-Chloroethoxy)methane	0.5932	0.5825	50.00	49.09	ng	-2	30	0.0500	
Benzoic acid	0.1624	0.1704	50.00	57.72	ng	15	40	0.0500	
2,4-Dichlorophenol	0.3058	0.2896	50.00	47.34	ng	-5	20	0.0500	
1,2,4-Trichlorobenzene	0.3490	0.3195	50.00	45.77	ng	-8	30	0.0500	
Naphthalene	1.1799	1.1963	50.00	50.70	ng	1	30	0.0500	
4-Chloroaniline	0.5279	0.5338	50.00	50.56	ng	1	30	0.0500	
Hexachlorobutadiene	0.1895	0.1780	50.00	46.96	ng	-6	20	0.0500	
4-Chloro-3-methylphenol	0.3413	0.3456	50.00	50.63	ng	1	20	0.0500	
2-Methylnaphthalene	0.7291	0.7445	50.00	51.06	ng	2	30	0.0500	
Hexachlorocyclopentadiene	0.2807	0.2821	50.00	50.25	ng	1	40	0.0500	
2,4,6-Trichlorophenol	0.3839	0.3803	50.00	49.52	ng	-1	20	0.0500	
2,4,5-Trichlorophenol	0.4165	0.4128	50.00	49.55	ng	-1	30	0.0500	
2-Chloronaphthalene	1.2052	1.2360	50.00	51.28	ng	3	30	0.0500	
2-Nitroaniline	0.4884	0.5131	50.00	52.53	ng	5	30	0.0500	
Dimethylphthalate	1.3943	1.4954	50.00	53.63	ng	7	30	0.0500	
2,6-Dinitrotoluene	0.3818	0.4093	50.00	53.60	ng	7	30	0.0500	
Acenaphthylene	1.9240	1.9526	50.00	50.74	ng	1	30	0.0500	
3-Nitroaniline	0.3888	0.4246	50.00	54.61	ng	9	30	0.0500	
Acenaphthene	1.1743	1.3176	50.00	56.10	ng	12	20	0.0500	
2,4-Dinitrophenol	0.1106	0.1975	50.00	75.57	ng	**51**	40	0.0500	c+ ***
4-Nitrophenol	0.1591	0.1976	50.00	62.12	ng	24	40	0.0500	
Dibenzofuran	1.6819	1.7341	50.00	51.55	ng	3	30	0.0500	
2,4-Dinitrotoluene	0.4649	0.5331	50.00	57.33	ng	15	30	0.0500	
Diethylphthalate	1.4390	1.6613	50.00	57.72	ng	15	30	0.0500	
Fluorene	1.3536	1.4149	50.00	52.27	ng	5	30	0.0500	
4-Chlorophenyl-phenylether	0.6373	0.6611	50.00	51.87	ng	4	40	0.0500	
4-Nitroaniline	0.3812	0.4253	50.00	55.78	ng	12	30	0.0500	
4,6-Dinitro-2-methylphenol	0.1384	0.1787	50.00	65.76	ng	**32**	30	0.0500	c+ ***
N-Nitrosodiphenylamine	0.5717	0.5658	50.00	49.48	ng	-1	20	0.0500	
4-Bromophenyl-phenylether	0.2577	0.2546	50.00	49.40	ng	-1	30	0.0500	
Hexachlorobenzene	0.2828	0.2770	50.00	48.97	ng	-2	30	0.0500	
Pentachlorophenol	0.1436	0.1621	50.00	57.77	ng	16	20	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Phenanthrene	1.2573	1.3637	50.00	54.23	ng	8	30	0.0500	
Anthracene	1.2370	1.3447	50.00	54.36	ng	9	30	0.0500	
Di-n-butylphthalate	1.6978	2.2003	50.00	64.80	ng	**30**	30	0.0500	!c+
Fluoranthene	1.2341	1.3946	50.00	56.50	ng	13	20	0.0500	
Pyrene	1.7942	1.6164	50.00	45.04	ng	-10	30	0.0500	
Butylbenzylphthalate	1.0401	1.1292	50.00	54.29	ng	9	30	0.0500	
3,3'-Dichlorobenzidine	0.5249	0.5523	50.00	52.61	ng	5	40	0.0500	
Benzo(a)anthracene	1.6284	1.6494	50.00	50.64	ng	1	30	0.0500	
bis(2-Ethylhexyl)phthalate	1.3953	1.7158	50.00	61.49	ng	**23**	30	0.0500	!c+
Chrysene	1.3105	1.3302	50.00	50.75	ng	2	30	0.0500	
Di-n-octylphthalate	3.0061	3.2586	50.00	54.20	ng	8	20	0.0500	
Benzo(b)fluoranthene	1.6593	1.5038	50.00	45.32	ng	-9	30	0.0500	
Benzo(k)fluoranthene	1.5694	1.5038	50.00	47.91	ng	-4	30	0.0500	
Benzo(a)pyrene	1.3124	1.3108	50.00	49.94	ng	0	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.1016	1.4421	50.00	65.46	ng	**31**	30	0.0500	c+ ***
Dibenz(a,h)anthracene	0.9108	1.2139	50.00	66.64	ng	**33**	30	0.0500	c+ ***
Benzo(g,h,i)perylene	0.8298	1.0855	50.00	65.41	ng	**31**	30	0.0500	c+ ***
2-Fluorophenol	1.4052	1.4091	50.00	50.14	ng	0	30	0.0500	
Phenol-d5	1.9047	2.0222	50.00	53.08	ng	6	30	0.0500	
Nitrobenzene-d5	0.4758	0.4602	50.00	48.36	ng	-3	30	0.0500	
2-Fluorobiphenyl	1.2365	1.2475	50.00	50.44	ng	1	30	0.0500	
2,4,6-Tribromophenol	0.1866	0.1950	50.00	52.26	ng	5	30	0.0500	
Terphenyl-d14	1.2613	1.2979	50.00	51.45	ng	3	30	0.0500	

!=warning +=high bias c=CCV

INTERNAL STANDARD SUMMARY FOR 185511 MSBNA Water
Curtis & Tompkins Laboratories

Sequence Date: 20-MAR-2006
Sequence: 536114537 (wck)
Instrument ID: MSBNA04

CCV Filename: wck03
Date Analyzed: 20-MAR-2006
Time Analyzed: 12:57

	IS1 (DCBZ14D4)		IS2 (NAPHD8)		IS3 (ACEND10)		IS4 (PHEND10)		IS5 (CHYD12)		IS6 (PERYD12)	
	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT
CCV STD	332306	8.64	1226777	11.12	756716	15.16	1192632	18.77	870144	25.83	697442	29.69
LOWER LIMIT	166153	8.14	613389	10.63	378358	14.66	596316	18.27	435072	25.33	348721	29.19
UPPER LIMIT	664612	9.14	2453554	11.63	1513432	15.66	2385264	19.27	1740288	26.33	1394884	30.19

TYPE	SAMPLE	#												
CCV		003	332306	8.64	1226777	11.13	756716	15.16	1192632	18.77	870144	25.83	697442	29.69
BLANK	QC331843	004	282831	8.64	1008029	11.12	622722	15.15	933393	18.75	669918	25.79	581704	29.67
BS	QC331465	005	280022	8.63	1006923	11.12	620712	15.15	973100	18.76	744601	25.80	675412	29.68
BSD	QC331466	006	289195	8.63	1016261	11.12	620876	15.15	995944	18.76	776065	25.81	702472	29.68
BS	QC331844	007	291646	8.63	1048998	11.12	659598	15.16	1046864	18.76	803416	25.81	719516	29.69
BSD	QC331845	008	305220	8.63	1095703	11.12	676874	15.15	1048048	18.76	811073	25.81	713398	29.69
SAMPLE	185385-009	009	292289	8.63	1036388	11.12	630191	15.15	920011	18.75	659712	25.79	568929	29.68
SAMPLE	185414-002	010	282938	8.63	1021788	11.12	629524	15.14	884147	18.75	644644	25.78	569399	29.67
SAMPLE	185414-007	011	291058	8.63	1043980	11.12	642544	15.15	917729	18.75	661112	25.79	578101	29.68
SAMPLE	185414-009	012	336082	8.63	1104674	11.11	654465	15.14	968127	18.75	694422	25.80	499231	29.68
SAMPLE	185414-010	013	312530	8.63	1040832	11.11	633902	15.14	966462	18.75	710675	25.79	623231	29.67
SAMPLE	185456-005	014	442047	8.62	1579579	11.11	984445	15.14	1542329	18.75	1119585	25.79	893335	29.67
SAMPLE	185456-001	015	481533	8.62	1698923	11.11	1062536	15.15	1578675	18.75	1031657	25.79	718329	29.68
SAMPLE	185456-007	016	476799	8.62	1660471	11.11	1034651	15.14	1604924	18.75	1190471	25.79	930829	29.67
SAMPLE	185456-006	017	485026	8.62	1681303	11.11	1067315	15.14	1673505	18.75	1223201	25.79	1080198	29.68
SAMPLE	185456-004	018	317950	8.62	1094084	11.11	685117	15.13	990556	18.74	725984	25.78	592131	29.67
SAMPLE	185456-002	019	292767	8.62	1032998	11.10	638854	15.14	934998	18.74	659167	25.78	537615	29.67
SAMPLE	185456-003	020	306657	8.63	1057600	11.10	656583	15.14	954482	18.74	686989	25.78	554267	29.66

INTERNAL STANDARD SUMMARY FOR 185511 MSBNA Water
Curtis & Tompkins Laboratories

Sequence Date: 20-MAR-2006
Sequence: 576114421 (sck)
Instrument ID: MSBNA08

CCV Filename: sck06
Date Analyzed: 20-MAR-2006
Time Analyzed: 16:21

	IS1 (DCBZ14D4)		IS2 (NAPHD8)		IS3 (ACEND10)		IS4 (PHEND10)		IS5 (CHYD12)		IS6 (PERYD12)	
	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT
CCV STD	130097	8.01	527665	9.57	279003	11.76	421648	13.64	371475	17.48	338952	20.11
LOWER LIMIT	65049	7.51	263833	9.07	139502	11.26	210824	13.14	185738	16.98	169476	19.61
UPPER LIMIT	260194	8.51	1055330	10.07	558006	12.26	843296	14.14	742950	17.98	677904	20.61

TYPE	SAMPLE	#												
CCV		006	130097	8.01	527665	9.57	279003	11.76	421648	13.64	371475	17.48	338952	20.11
SAMPLE	185504-001	007	129941	8.02	522893	9.57	301849	11.76	488749	13.64	394434	17.47	385772	20.10
SAMPLE	185504-002	008	90928	8.01	403336	9.56	248979	11.75	410124	13.64	334905	17.47	335440	20.10
SAMPLE	185511-012	009	109343	8.01	459406	9.56	266372	11.75	421141	13.64	344822	17.46	331796	20.09
SAMPLE	185511-013	010	103429	8.01	433330	9.55	259604	11.76	421897	13.64	353029	17.46	344953	20.10
SAMPLE	185456-008	011	112086	8.01	457695	9.56	253609	11.75	383518	13.64	297480	17.47	291169	20.09
SAMPLE	185456-009	012	117688	8.00	460429	9.56	245716	11.75	377285	13.63	276902	17.45	161139*	20.09
SAMPLE	185566-001	013	114038	8.01	443004	9.55	227839	11.76	358770	13.64	251035	17.47	184444	20.09
SAMPLE	185327-002	014	122144	8.00	493430	9.55	257538	11.75	379383	13.63	251493	17.46	170897	20.09
SAMPLE	185545-003	015	117055	8.01	480677	9.55	258794	11.76	389109	13.64	261660	17.46	189268	20.09

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* = Outside QC Limits

SEQUENCE SUMMARY FOR 185511 MSBNA Water
Curtis & Tompkins Laboratories

Sequence: 576098484 Instrument: MSBNA08 Agilent GC/MS BNA 08 Begun: 09-MAR-2006
Analytical Method: EPA 8270C SOP Version: 8270C_rv8

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	sc901	TUN	NP NL			09-MAR-2006 09:24	1.0	1.0				1	
002	sc902	TUN	NP NL			09-MAR-2006 09:37	1.0	1.0				1	
003	sc903	CCV				09-MAR-2006 09:57	1.0	1.0	6		1	2 cc+	
004	sc904	ICAL	2ug/mL			09-MAR-2006 10:54	1.0	1.0				3	
005	sc905	ICAL	5ug/mL			09-MAR-2006 11:28	1.0	1.0				4	
006	sc906	ICAL	10ug/mL			09-MAR-2006 12:02	1.0	1.0				5	
007	sc907	ICAL	20ug/mL			09-MAR-2006 12:38	1.0	1.0				6	
008	sc908	ICAL	50ug/mL			09-MAR-2006 13:12	1.0	1.0				7	
009	sc909	ICAL	80ug/mL			09-MAR-2006 13:47	1.0	1.0				2	
010	sc910	ICAL	100ug/mL			09-MAR-2006 14:22	1.0	1.0				8	
011	sc911	ICAL	120ug/mL			09-MAR-2006 14:57	1.0	1.0				9	
012	sc912	ICAL	160ug/mL			09-MAR-2006 15:32	1.0	1.0				10	
013	sc913	ICV				09-MAR-2006 16:07	1.0	1.0	1		1	11	
014	sc914	TUN	NP NL			09-MAR-2006 16:34	1.0	1.0				1	
015	sc915	CCV				09-MAR-2006 16:55	1.0	1.0	1		1	2	429
016	sc916	SAMPLE	185130-005	110764	Water	09-MAR-2006 17:36	1.0	0.0009709			1	12	
017	sc917	SAMPLE	185131-005	110764	Water	09-MAR-2006 18:11	1.0	0.0009709			1	12	
018	sc918	SAMPLE	185132-005	110764	Water	09-MAR-2006 18:46	1.0	0.0009524			1	12	
019	sc919	SAMPLE	185226-002	110971	TCLP L	09-MAR-2006 19:21	100.0	0.01			1	12 spk	
020	sc920	SAMPLE	185226-003	110971	TCLP L	09-MAR-2006 19:56	25.0	0.01			1	12 spk	1:BZLAL=175.710
021	sc921	SAMPLE	185259-001	111003	Water	09-MAR-2006 20:31	1.0	0.0009524			1	12	

Stds used: 1=S1637 2=S2583 3=S2578 4=S2579 5=S2580 6=S2581 7=S2582 8=S2584 9=S2585 10=S2586 11=S2760 12=S2027
Flags used: +=high bias cc=CCV CCC failure spk=5% spike rule

SEQUENCE SUMMARY FOR 185511 MSBNA Water
Curtis & Tompkins Laboratories

Sequence: 536108715 Instrument: MSBNA04 HP GCMS BNA 04 Begun: 16-MAR-2006
Analytical Method: EPA 8270C SOP Version: 8270C_rv8

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC SPK uL	VL	pH	Stds Used	>LR
001	wcg01	TUN	NP NL			16-MAR-2006 11:55	1.0				1	
002	wcg02	TUN	NP NL			16-MAR-2006 12:43	1.0				1	
003	wcg03	ICAL	2ug/mL			16-MAR-2006 13:15	1.0				2	
004	wcg04	ICAL	5ug/mL			16-MAR-2006 14:00	1.0				3	
005	wcg05	ICAL	10ug/mL			16-MAR-2006 14:45	1.0				4	
006	wcg06	ICAL	20ug/mL			16-MAR-2006 15:30	1.0				5	
007	wcg07	ICAL	50ug/mL			16-MAR-2006 16:15	1.0				6	
008	wcg08	ICAL	80ug/mL			16-MAR-2006 16:59	1.0				7	
009	wcg09	ICAL	100ug/mL			16-MAR-2006 17:43	1.0				8	
010	wcg10	ICAL	120ug/mL			16-MAR-2006 18:28	1.0				9	
011	wcg11	ICAL	160ug/mL			16-MAR-2006 19:14	1.0				10	
012	wcg12	ICV	60ug/mL			16-MAR-2006 19:58	1.0				11	

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Stds used: 1=S1637 2=S2578 3=S2579 4=S2580 5=S2581 6=S2582 7=S2583 8=S2584 9=S2585 10=S2586 11=S2760

SEQUENCE SUMMARY FOR 185511 MSBNA Water
Curtis & Tompkins Laboratories

Sequence: 536110111 Instrument: MSBNA04 HP GCMS BNA 04 Begun: 17-MAR-2006
Analytical Method: EPA 8270C SOP Version: 8270C_rv8

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	wch01	TUN	NP NL			17-MAR-2006 11:11	1.0						1	
002	wch02	CCV				17-MAR-2006 11:35	1.0			1			2	
003	wch03	ICV				17-MAR-2006 12:40	1.0	1		1			3	
004	wch04	ICV				17-MAR-2006 15:13	1.0	2		1			4	1:13BZDI=129.125
005	wch05	ICV				17-MAR-2006 16:17	1.0	1		1			5 6	
006	wch06	ICV				17-MAR-2006 17:26	1.0	1		1			4 6	

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Stds used: 1=S1637 2=S2583 3=S1959 4=S1915 5=S1916 6=S2027

SEQUENCE SUMMARY FOR 185511 MSBNA Water
Curtis & Tompkins Laboratories

Sequence: 536114537 Instrument: MSBNA04 HP GCMS BNA 04 Begun: 20-MAR-2006
Analytical Method: EPA 8270C SOP Version: 8270C_rv8

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	wck01	TUN	NP NL			20-MAR-2006 10:08	1.0	1.0				1	
002	wck02	TUN	NP NL			20-MAR-2006 12:35	1.0	1.0				1	
003	wck03	CCV				20-MAR-2006 12:57	1.0	1.0			1	2	
004	wck04	BLANK	QC331843	111390	Water	20-MAR-2006 13:58	1.0	0.001			1	3	
005	wck05	BS	QC331465	111297	Water	20-MAR-2006 14:43	1.0	0.001	2	2	1	3	
006	wck06	BSD	QC331466	111297	Water	20-MAR-2006 15:28	1.0	0.001	2	3	1	3	
007	wck07	BS	QC331844	111390	Water	20-MAR-2006 16:13	1.0	0.001			1	3	
008	wck08	BSD	QC331845	111390	Water	20-MAR-2006 16:59	1.0	0.001			1	3	
009	wck09	SAMPLE	185385-009	111150	Water	20-MAR-2006 17:44	1.0	0.0009434			1	3	
010	wck10	SAMPLE	185414-002	111297	Water	20-MAR-2006 18:28	1.0	0.0009524			1	3	
011	wck11	SAMPLE	185414-007	111297	Water	20-MAR-2006 19:13	1.0	0.0009524			1	3	
012	wck12	SAMPLE	185414-009	111297	Water	20-MAR-2006 19:59	1.0	0.0009434			1	3	
013	wck13	SAMPLE	185414-010	111297	Water	20-MAR-2006 20:45	1.0	0.0009434			1	3	
014	wck14	SAMPLE	185456-005	111297	Water	20-MAR-2006 21:29	1.0	0.0009524			1	3	
015	wck15	SAMPLE	185456-001	111297	Water	20-MAR-2006 22:15	1.0	0.0009524			1	3	482
016	wck16	SAMPLE	185456-007	111297	Water	20-MAR-2006 23:00	1.0	0.0009524			1	3	
017	wck17	SAMPLE	185456-006	111297	Water	20-MAR-2006 23:45	1.0	0.0009615			1	3	
018	wck18	SAMPLE	185456-004	111297	Water	21-MAR-2006 00:30	1.0	0.0009434			1	3	
019	wck19	SAMPLE	185456-002	111297	Water	21-MAR-2006 01:15	1.0	0.0009524	75		1	3 <<t	
020	wck20	SAMPLE	185456-003	111297	Water	21-MAR-2006 02:02	1.0	0.0009434	75		1	3 <<t	
021	wck21	X	ENDBLANK			21-MAR-2006 02:39	1.0						

Stds used: 1=S1637 2=S2583 3=S2027
Flags used: <<t=out of clock

SEQUENCE SUMMARY FOR 185511 MSBNA Water
Curtis & Tompkins Laboratories

Sequence: 576114421 Instrument: MSBNA08 Agilent GC/MS BNA 08 Begun: 20-MAR-2006
Analytical Method: EPA 8270C SOP Version: 8270C_rv8

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	sck01	TUN	NP NL			20-MAR-2006 11:01	1.0	1.0				1	
002	sck02	CCV				20-MAR-2006 11:40	1.0	1.0	2		1	2 cc+	
003	sck03	CCV				20-MAR-2006 12:45	1.0	1.0	2		1	2 cc+	
004	sck04	TUN	NP NL			20-MAR-2006 14:47	1.0	1.0				1	
005	sck05	CCV				20-MAR-2006 15:18	1.0	1.0	8		1	2 cc+	
006	sck06	CCV				20-MAR-2006 16:21	1.0	1.0	6		1	3	
007	sck07	SAMPLE	185504-001	111390	Water	20-MAR-2006 16:57	1.0	0.001		1	1	4	
008	sck08	SAMPLE	185504-002	111390	Water	20-MAR-2006 17:31	1.0	0.001			1	4	
009	sck09	SAMPLE	185511-012	111390	Water	20-MAR-2006 18:06	1.0	0.0009709			1	4	
010	sck10	SAMPLE	185511-013	111390	Water	20-MAR-2006 18:41	1.0	0.0009709			1	4	
011	sck11	SAMPLE	185456-008	111390	Water	20-MAR-2006 19:45	1.0	0.0009524			1	4	
012	sck12	SAMPLE	185456-009	111390	Water	20-MAR-2006 20:19	1.0	0.0009615			1	4	
013	sck13	SAMPLE	185566-001	111390	Water	20-MAR-2006 20:54	1.0	0.001		1	1	4	
014	sck14	SAMPLE	185327-002	111475	Soil	20-MAR-2006 21:28	1.0	0.0334			1	4	
015	sck15	SAMPLE	185545-003	111345	Soil	20-MAR-2006 22:03	5.0	0.03283		6	1	4	

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Stds used: 1=S1637 2=S2583 3=S2582 4=S2027
Flags used: +=high bias cc=CCV CCC failure

REPORTING SUMMARY FOR 185511 8270-1 Water
Curtis & Tompkins Laboratories

| Lab ID | Inst ID | Analyzed | IDF | | |

Curtis & Tompkins Laboratories **Sample Preparation Summary** **17-MAR-2006 19:27**

Batch Number : 111390
Date Extracted: 16-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : 8270-1
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2648A
Spike #2 ID : S2812C
Spike #3 ID : S2709A
SOP Version : 8270w_3520_rv14

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185456-008		Acton Mickelson Environmental	Water	1050	mL	1	0.000952	1	6	1	0	0	8270-1		
185456-009		Acton Mickelson Environmental	Water	1040	mL	1	0.000962	1	5	1	0	0	8270-1		
185504-001		Camp, Dresser & McKee	Water	500	mL	.5	0.001000	1	6	.5	0	0	8270-1		
185504-002		Camp, Dresser & McKee	Water	500	mL	.5	0.001000	1	6	.5	0	0	8270-1		
185511-012		Treadwell & Rollo	Water	1030	mL	1	0.000971	1	5	1	0	0	8270-1		
185511-013		Treadwell & Rollo	Water	1030	mL	1	0.000971	1	5	1	0	0	8270-1		
185566-001		Tetra Tech EC, Inc.	Water	1000	mL	1	0.001000	1	6	1	0	0	8270-1		
QC331843	BLANK		Water	1000	mL	1	0.001000	1		1	0	0	8270-1		
QC331844	BS		Water	1000	mL	1	0.001000	1		1	1	1	8270-1		
QC331845	BSD		Water	1000	mL	1	0.001000	1		1	1	1	8270-1		

Prep Chemist: Jessie O'Brien Mee Reviewed By: [illegible] Date: 3/17/06

Relinquished By: [illegible] Received By: [illegible] Date: 3/21/06

Curtis & Tompkins, Ltd

8270 WATER PREP LOG

BK2265

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LIMS Batch No: 111390
LIMS Analysis: 8270-1
Extracted by: JDM
Date Extracted: 16 Mar 06

Extraction Method:
- ☐ mod.EPA 3510c sep. funnel
- ☒ mod. EPA 3520c cont. L/L
- ☐ _____

Cleanup Method (if needed):
- ☐ EPA 3640a GPC
- ☐ EPA 3630c Silica Gel

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185456-008 K	1050	6	1.0		
↓ 09 K	1040	5	↓		
185566-001 O	1000	6	↓		
MB QC331843	↓	NA	↓		
LS ↓ 44	↓	↓	↓		
DSD ↓ 45	↓	↓	↓		
185504-001 I	500	6	0.5		limited sample *
↓ 02 I	500	6	↓		↓ ↓
185511-012 V	1030	5	1.0		
↓ 13 X	1030	5	↓		
					MJM 3/17/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
1.0/0.5* mL of surrogate solution was added to all samples	S2648A	JDM 3/16/06
1.0/1.0 mL of matrix spiking solution was added to all spikes	S2812C / S2709A	↓
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	JTBA49034	↓
☒ Samples were continuously extracted with 450 mL of CH_2Cl_2 EM46014 — Extraction Start Time:	1345	↓
Extraction End Time:	0810	DLM 3/17/06
pH of all samples adjusted to pH ≥ 11 with 10 N NaOH	N/A	3/17/06 MJM
Extraction Start Time:	↓	↓
Extraction End Time:	↓	↓
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	↓	↓
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM45118532	↓
Concentrated to volumes as noted above	✓	↓

Extraction Chemist — Date: 3/16/06

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Contined from Page ____
Continued on Page ____

Reviewed by — Date: 3/17/06

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8270C Water 3520C
As of 04/29/06

Analyte	Units	MSBNA04	MSBNA02	MSBNA05	MSBNA07	MSBNA08
Phenol	ug/L	1.1	2.5	0.90	0.81	0.63
2-Chlorophenol	ug/L	0.44	2.5	0.89	0.85	0.76
1,4-Dichlorobenzene	ug/L	0.49	2.2	0.55	0.31	0.33
N-Nitroso-di-n-propylamine	ug/L	1.4	2.9	0.50	0.42	0.44
1,2,4-Trichlorobenzene	ug/L	0.32	2.2	0.50	0.36	0.30
4-Chloro-3-methylphenol	ug/L	0.75	2.9	1.0	0.98	0.95
Acenaphthene	ug/L	0.33	2.8	0.44	0.32	0.35
4-Nitrophenol	ug/L	1.3	4.1	0.59	2.8	0.54
2,4-Dinitrotoluene	ug/L	0.24	3.3	0.42	0.44	0.24
Pentachlorophenol	ug/L	0.75	3.2	0.54	1.2	1.1
Pyrene	ug/L	0.40	1.9	0.55	0.34	0.64
Resorcinol	ug/L				2.2	1.8
2,3,4,6-Tetrachlorophenol	ug/L				4.0	2.7
N-Nitrosodimethylamine	ug/L	1.5	2.7	0.35	0.50	0.54
Pyridine	ug/L		3.9			
Aniline	ug/L	1.5				0.12
bis(2-Chloroethyl)ether	ug/L	0.65	3.1	0.54	0.47	0.43
1,3-Dichlorobenzene	ug/L	0.33	1.7	0.55	0.29	0.20
Benzyl alcohol	ug/L	0.59	2.9	0.49	0.37	0.41
1,2-Dichlorobenzene	ug/L	0.45	2.2	0.53	0.33	0.28
2-Methylphenol	ug/L	1.1	2.5	1.1	0.79	0.79
bis(2-Chloroisopropyl) ether	ug/L	0.83	3.0	0.43	0.38	0.42
4-Methylphenol	ug/L	0.43	2.4	1.0	0.81	0.64
Hexachloroethane	ug/L	0.42	1.9	0.46	0.34	0.31
Nitrobenzene	ug/L	0.59	2.4	0.48	0.38	0.20
Isophorone	ug/L	0.38	2.8	0.50	0.39	0.52
2-Nitrophenol	ug/L	1.6	2.4	1.1	1.4	1.3
2,4-Dimethylphenol	ug/L	1.2	1.9	0.97	0.79	1.3
Benzoic acid	ug/L	21	7.9	13	13	11
bis(2-Chloroethoxy)methane	ug/L	0.57	2.7	0.56	0.44	0.45
2,4-Dichlorophenol	ug/L	0.72	2.4	0.96	0.78	0.58
Naphthalene	ug/L	0.27	2.7	0.54	0.26	0.25
4-Chloroaniline	ug/L	0.99	3.0	0.59	0.85	0.69
Hexachlorobutadiene	ug/L	0.37	1.8	0.39	0.45	0.36
2-Methylnaphthalene	ug/L	0.29	3.1	0.65	0.39	0.29
Hexachlorocyclopentadiene	ug/L	0.79	1.3	1.0	1.5	0.55
2,4,6-Trichlorophenol	ug/L	0.78	2.8	0.88	0.84	0.81
2,4,5-Trichlorophenol	ug/L	0.97	3.1	0.78	1.2	1.1
2-Chloronaphthalene	ug/L	0.38	3.1	0.45	0.30	0.33
2-Nitroaniline	ug/L	0.88	3.4	0.43	0.47	0.38
Dimethylphthalate	ug/L	0.25	2.9	0.45	0.45	0.52
Acenaphthylene	ug/L	0.45	2.7	0.38	0.29	0.46
2,6-Dinitrotoluene	ug/L	0.78	2.6	0.44	0.67	0.37
3-Nitroaniline	ug/L	0.73	2.5	0.50	0.43	0.70
2,4-Dinitrophenol	ug/L	5.3	2.1	4.0	2.9	6.1

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8270C Water 3520C
As of 04/29/06

Analyte	Units	MSBNA04	MSBNA02	MSBNA05	MSBNA07	MSBNA08
Dibenzofuran	ug/L	0.44	3.7	0.64	0.40	0.39
Diethylphthalate	ug/L	0.36	3.1	0.44	0.47	0.39
Fluorene	ug/L	0.18	3.1	0.48	0.41	0.39
4-Chlorophenyl-phenylether	ug/L	0.30	3.6	0.46	0.43	0.36
4-Nitroaniline	ug/L	0.66	2.6	0.60	0.48	0.38
4,6-Dinitro-2-methylphenol	ug/L	0.71	2.8	0.64	4.5	4.8
N-Nitrosodiphenylamine	ug/L	0.38	2.3	0.50	0.32	0.28
Azobenzene	ug/L	0.79	2.3	0.52	0.41	0.45
4-Bromophenyl-phenylether	ug/L	0.36	2.5	0.42	0.37	0.31
Hexachlorobenzene	ug/L	0.73	2.3	0.45	0.26	0.44
Phenanthrene	ug/L	0.42	2.5	0.55	0.39	0.46
Anthracene	ug/L	0.30	2.5	0.47	0.37	0.48
Di-n-butylphthalate	ug/L	0.45	2.4	0.52	0.44	0.30
Fluoranthene	ug/L	0.24	2.3	0.53	0.37	0.41
Benzidine	ug/L		3.3			
Butylbenzylphthalate	ug/L	0.38	1.6	0.50	0.43	0.30
3,3'-Dichlorobenzidine	ug/L	0.44	1.5	0.54	0.56	0.42
Benzo(a)anthracene	ug/L	0.61	2.2	0.53	0.34	0.42
Chrysene	ug/L	0.28	2.2	0.46	0.35	0.52
bis(2-Ethylhexyl)phthalate	ug/L	0.54	1.2	0.54	0.67	0.91
Di-n-octylphthalate	ug/L	0.18	2.8	0.42	0.37	0.35
Benzo(b)fluoranthene	ug/L	0.16	1.6	0.38	0.41	0.52
Benzo(k)fluoranthene	ug/L	0.41	3.8	0.51	0.44	0.75
Benzo(a)pyrene	ug/L	0.15	2.5	0.43	0.34	0.48
Indeno(1,2,3-cd)pyrene	ug/L	0.42	2.3	0.53	0.44	0.48
Dibenz(a,h)anthracene	ug/L	0.25	2.4	0.55	0.53	0.37
Benzo(g,h,i)perylene	ug/L	0.56	1.9	0.52	0.41	0.41
2-Fluorophenol	ug/L				0.98	0.98
Phenol-d5	ug/L				0.99	1.1
2,4,6-Tribromophenol	ug/L				1.2	1.2
Nitrobenzene-d5	ug/L				0.42	0.42
2-Fluorobiphenyl	ug/L				0.48	0.57
Terphenyl-d14	ug/L				0.39	0.61

PESTICIDES

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	DW031306A	Batch#:	111389
Lab ID:	185511-012	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Prepared:	03/16/06
Diln Fac:	1.000	Analyzed:	03/17/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	78	65-135
Decachlorobiphenyl	103	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	DW031306B	Batch#:	111389
Lab ID:	185511-013	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Prepared:	03/16/06
Diln Fac:	1.000	Analyzed:	03/17/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	106	65-135
Decachlorobiphenyl	103	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331840	Batch#:	111389
Matrix:	Water	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/17/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	66	65-135
Decachlorobiphenyl	112	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Matrix:	Water	Batch#:	111389
Units:	ug/L	Prepared:	03/16/06
Diln Fac:	1.000	Analyzed:	03/17/06

Type: BS Lab ID: QC331841

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	0.2000	0.1867	93	65-135
Heptachlor	0.2000	0.1874	94	65-135
Aldrin	0.2000	0.1777	89	65-135
Dieldrin	0.4000	0.3946	99	65-135
Endrin	0.4000	0.3883	97	65-135
4,4'-DDT	0.4000	0.3473	87	65-135

Surrogate	%REC	Limits
TCMX	82	65-135
Decachlorobiphenyl	105	65-135

Type: BSD Lab ID: QC331842

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	0.2000	0.1884	94	65-135	1	35
Heptachlor	0.2000	0.1894	95	65-135	1	35
Aldrin	0.2000	0.1817	91	65-135	2	35
Dieldrin	0.4000	0.3920	98	65-135	1	35
Endrin	0.4000	0.3881	97	65-135	0	35
4,4'-DDT	0.4000	0.3669	92	65-135	5	35

Surrogate	%REC	Limits
TCMX	73	65-135
Decachlorobiphenyl	108	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185511 PEST Water: EPA 8081A

Inst : GC21
Calnum : 246090289001
Units : pg

Name : gc21pest062
Date : 03-MAR-2006 16:49
X Axis : R

Reviewer: MCH
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	062_007	246090289007	pest_1	03-MAR-2006 16:49	S2827
L2	062_008	246090289008	pest_2	03-MAR-2006 17:06	S2039
L3	062_009	246090289009	pest_3	03-MAR-2006 17:23	S2824
L4	062_010	246090289010	pest_4	03-MAR-2006 17:41	S2372
L5	062_011	246090289011	pest_5	03-MAR-2006 17:58	S2663
L6	062_012	246090289012	pest_6	03-MAR-2006 18:15	S2828
L7	062_013	246090289013	pest_7	03-MAR-2006 18:33	S2823

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
alpha-BHC	A	15186	14539	13770	13435	13877	13587	12182	AVRG		7.25E-5		13797	7	0.995	20	
gamma-BHC	A	13643	13740	12750	12639	13116	12334	11010	AVRG		7.84E-5		12747	7	0.995	20	
beta-BHC	A	6074.0	5916.8	5452.9	5253.8	5350.0	4961.6	4654.6	AVRG		1.86E-4		5380.5	9	0.995	20	
delta-BHC	A	13337	13643	12559	12818	13276	12231	10744	AVRG		7.90E-5		12658	8	0.995	20	
Heptachlor	A	10866	11505	10481	10418	10788	10390	9314.6	AVRG		9.49E-5		10537	6	0.995	20	
Aldrin	A	12810	12326	11449	11178	11611	10900	9480.2	AVRG		8.78E-5		11393	9	0.995	20	
Heptachlor epoxide	A	12074	11243	10575	9936.1	10310	9809.4	8521.4	AVRG		9.66E-5		10353	11	0.995	20	
gamma-Chlordane	A	12339	11468	10697	10265	10505	10142	8952.6	AVRG		9.41E-5		10624	10	0.995	20	
alpha-Chlordane	A	11835	11323	10033	10187	10465	9843.6	8590.7	AVRG		9.69E-5		10325	10	0.995	20	
4,4'-DDE	A	10909	10533	9864.5	9844.3	10154	9164.7	7141.4	AVRG		1.04E-4		9658.6	13	0.995	20	
Endosulfan I	A	11137	10504	9917.9	9314.5	9441.6	8769.4	7936.7	AVRG		1.04E-4		9574.3	11	0.995	20	
Dieldrin	A	11073	10842	10062	9943.8	10271	8910.0	6764.0	AVRG		1.03E-4		9695.0	15	0.995	20	
Endrin	A	8177.0	8056.5	7341.1	7247.0	7555.2	6952.4	5679.6	AVRG		1.37E-4		7287.0	11	0.995	20	
4,4'-DDD	A	7826.3	7569.7	7076.6	7277.2	7582.4	7258.7	5892.4	AVRG		1.39E-4		7211.9	9	0.995	20	
Endosulfan II	A	10051	9217.4	9179.9	8407.1	8568.4	7805.6	6275.6	AVRG		1.18E-4		8500.7	14	0.995	20	
4,4'-DDT	A	6746.5	7434.6	6874.2	7358.5	7640.4	7280.7	6117.6	AVRG		1.42E-4		7064.6	7	0.995	20	
Methoxychlor	A	2967.5	3121.2	2829.9	2955.0	2972.0	2393.2	1649.9	AVRG		3.71E-4		2698.4	19	0.995	20	
Endosulfan sulfate	A	7977.8	7549.4	6979.8	6805.1	7016.6	6480.9	5376.7	AVRG		1.45E-4		6883.8	12	0.995	20	
Endrin ketone	A	9050.3	8688.4	8066.8	8050.9	8307.8	7525.3	5795.7	AVRG		1.26E-4		7926.5	13	0.995	20	
TCMX	A	9987.5	9445.7	9184.7	8499.5	8783.5	8716.9	7804.2	AVRG		1.12E-4		8917.4	8	0.995	20	
Decachlorobiphenyl	A	6698.3	6152.3	5656.9	5471.6	5472.9	5372.8	4736.6	AVRG		1.77E-4		5651.6	11	0.995	20	
alpha-BHC	B	12960	12479	11566	14001	11683	12352	9907.9	AVRG		8.24E-5		12135	11	0.995	20	
gamma-BHC	B	11425	11317	10400	12744	10523	10745	8653.7	AVRG		9.23E-5		10830	11	0.995	20	
beta-BHC	B	5298.5	5149.6	4866.2	5714.7	4656.5	4774.8	3997.1	AVRG		2.03E-4		4922.5	11	0.995	20	
delta-BHC	B	10979	10445	10059	12433	10100	9924.9	7848.8	AVRG		9.75E-5		10256	13	0.995	20	
Heptachlor	B	8923.0	9901.0	9368.3	10671	8989.3	9374.4	7943.6	AVRG		1.07E-4		9310.0	9	0.995	20	

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Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aldrin	B	10566	10190	9440.4	11353	9413.9	9545.6	7800.9	AVRG		1.02E-4		9758.5	11	0.995	20	
Heptachlor epoxide	B	9735.0	9166.8	8693.1	9743.8	8194.6	8363.1	6836.3	AVRG		1.15E-4		8676.1	12	0.995	20	
gamma-Chlordane	B	10110	9445.8	8913.8	10212	8563.1	8689.4	7255.0	AVRG		1.11E-4		9027.0	11	0.995	20	
alpha-Chlordane	B	9705.0	9115.8	8403.5	10025	8247.7	8117.4	6950.3	AVRG		1.16E-4		8652.2	12	0.995	20	
4,4'-DDE	B	9225.5	8789.5	8210.6	9760.2	8133.7	7623.4	5655.7	AVRG		1.22E-4		8199.8	16	0.995	20	
Endosulfan I	B	9121.0	8979.2	8079.0	9304.9	7972.6	7794.9	6304.0	AVRG		1.22E-4		8222.2	13	0.995	20	
Dieldrin	B	9476.0	8938.0	8308.9	9777.3	8202.1	7472.2	5471.0	AVRG		1.21E-4		8235.1	18	0.995	20	
Endrin	B	6817.5	6531.9	6317.0	6753.9	5672.9	5407.8	4269.0	AVRG		1.68E-4		5967.1	15	0.995	20	
4,4'-DDD	B	7643.8	7095.7	6969.9	7942.8	6780.7	6366.8	4844.0	AVRG		1.47E-4		6806.2	15	0.995	20	
Endosulfan II	B	8202.0	7617.0	7029.2	7927.5	6804.8	6286.1	4757.7	AVRG		1.44E-4		6946.3	17	0.995	20	
4,4'-DDT	B	6763.3	7110.2	6353.1	7660.4	6434.1	6168.2	4824.1	AVRG		1.54E-4		6473.3	14	0.995	20	
Methoxychlor	B	2590.3	2574.9	2427.1	2529.4	2186.1	1792.2		AVRG		4.26E-4		2350.0	13	0.995	20	
Endosulfan sulfate	B	7470.0	6948.4	6335.6	6982.9	5972.4	5538.0	4346.8	AVRG		1.61E-4		6227.7	17	0.995	20	
Endrin ketone	B	9058.0	8221.9	7840.7	8581.4	7436.5	6589.5	4878.0	AVRG		1.33E-4		7515.1	19	0.995	20	
TCMX	B	8856.0	8219.7	7837.4	9077.1	7510.3	8110.1	6413.1	AVRG		1.25E-4		8003.4	11	0.995	20	
Decachlorobiphenyl	B	7380.0	6391.6	6027.9	6418.6	5533.5	5391.2	4346.5	AVRG		1.69E-4		5927.0	16	0.995	20	
Average EPA 8081A	A												(n=22)	11		20	
Average EPA 8081A	B												(n=22)	14		20	

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AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185511 PEST Water
EPA 8081A

Inst : GC21 Name : gc21pest062
Calnum : 246090289001 Cal Date: 03-MAR-2006

ICV 246090289015 (062_015 03-MAR-2006) stds: S2502

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
alpha-BHC	A	25.00	24.41	pg	-2	15	
gamma-BHC	A	25.00	24.17	pg	-3	15	
beta-BHC	A	25.00	23.72	pg	-5	15	
delta-BHC	A	25.00	24.90	pg	0	15	
Heptachlor	A	25.00	24.55	pg	-2	15	
Aldrin	A	25.00	23.91	pg	-4	15	
Heptachlor epoxide	A	25.00	23.60	pg	-6	15	
gamma-Chlordane	A	25.00	23.06	pg	-8	15	
alpha-Chlordane	A	25.00	23.17	pg	-7	15	
4,4'-DDE	A	25.00	25.01	pg	0	15	
Endosulfan I	A	25.00	23.79	pg	-5	15	
Dieldrin	A	25.00	25.17	pg	1	15	
Endrin	A	25.00	25.34	pg	1	15	
4,4'-DDD	A	25.00	24.28	pg	-3	15	
Endosulfan II	A	25.00	26.12	pg	4	15	
4,4'-DDT	A	25.00	25.76	pg	3	15	
Methoxychlor	A	25.00	32.12	pg	**28**	15	v+ ***
Endosulfan sulfate	A	25.00	25.52	pg	2	15	
Endrin ketone	A	25.00	26.09	pg	4	15	
alpha-BHC	B	25.00	26.88	pg	8	15	
gamma-BHC	B	25.00	26.54	pg	6	15	
beta-BHC	B	25.00	26.52	pg	6	15	
delta-BHC	B	25.00	25.95	pg	4	15	
Heptachlor	B	25.00	28.59	pg	14	15	
Aldrin	B	25.00	26.24	pg	5	15	
Heptachlor epoxide	B	25.00	26.31	pg	5	15	
gamma-Chlordane	B	25.00	25.47	pg	2	15	
alpha-Chlordane	B	25.00	25.66	pg	3	15	
4,4'-DDE	B	25.00	27.82	pg	11	15	
Endosulfan I	B	25.00	25.99	pg	4	15	
Dieldrin	B	25.00	27.52	pg	10	15	
Endrin	B	25.00	27.43	pg	10	15	
4,4'-DDD	B	25.00	27.80	pg	11	15	
Endosulfan II	B	25.00	28.03	pg	12	15	
4,4'-DDT	B	25.00	27.30	pg	9	15	
Methoxychlor	B	25.00	32.58	pg	**30**	15	v+ ***
Endosulfan sulfate	B	25.00	27.76	pg	11	15	
Endrin ketone	B	25.00	28.99	pg	**16**	15	v+ ***
Average EPA 8081A	A	n=20			5	15	
Average EPA 8081A	B	n=20			10	15	

+=high bias v=ICV

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 185511 PEST Water
EPA 8081A

Inst : GC21 Run Name: pem IDF : 1.0
Seqnum : 246110207007 File : 076_007 Time : 17-MAR-2006 14:56

Standards: S2664

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	692882	7	15	
4,4'-DDE	A	7916			
4,4'-DDD	A	44809			
Endrin	A	385830	12	15	
Endrin aldehyde	A	16977			
Endrin ketone	A	35222			
4,4'-DDT	B	563958	13	15	
4,4'-DDE	B	3705			
4,4'-DDD	B	79140			
Endrin	B	305493	**19**	15	
Endrin aldehyde	B	18835			
Endrin ketone	B	54652			

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 185511 PEST Water
EPA 8081A

Inst : GC21 Run Name: pem IDF : 1.0
Seqnum : 246110207020 File : 076_020 Time : 17-MAR-2006 19:26

Standards: S2664

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	630319	9	15	
4,4'-DDE	A	7331			
4,4'-DDD	A	53418			
Endrin	A	362164	12	15	
Endrin aldehyde	A	11468			
Endrin ketone	A	36931			
4,4'-DDT	B	552282	14	15	
4,4'-DDE	B	3199			
4,4'-DDD	B	85248			
Endrin	B	316749	**18**	15	
Endrin aldehyde	B	13654			
Endrin ketone	B	58176			

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 185511 PEST Water
EPA 8081A

Inst : GC21 Run Name: pem IDF : 1.0
Seqnum : 246110207035 File : 076_035 Time : 17-MAR-2006 23:47

Standards: S2664

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	702191	8	15	
4,4'-DDE	A	7338			
4,4'-DDD	A	55740			
Endrin	A	411728	10	15	
Endrin aldehyde	A	9793			
Endrin ketone	A	38122			
4,4'-DDT	B	536305	**16**	15	
4,4'-DDE	B	3046			
4,4'-DDD	B	99752			
Endrin	B	314887	**20**	15	
Endrin aldehyde	B	16964			
Endrin ketone	B	63915			

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185511 PEST Water
EPA 8081A

Inst : GC21 Run Name: pest_3 IDF : 1.0
Seqnum : 246110207006 File : 076_006 Time : 17-MAR-2006 14:14
Cal : 246090289001 Caldate : 03-MAR-2006
Standards: S2824

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	13797	13625	10.00	9.875	pg	-1	15	
gamma-BHC	A	12747	12762	10.00	10.01	pg	0	15	
beta-BHC	A	5380.5	5444.1	10.00	10.12	pg	1	15	
delta-BHC	A	12658	12684	10.00	10.02	pg	0	15	
Heptachlor	A	10537	11012	10.00	10.45	pg	5	15	
Aldrin	A	11393	11499	10.00	10.09	pg	1	15	
Heptachlor epoxide	A	10353	10680	10.00	10.32	pg	3	15	
gamma-Chlordane	A	10624	10882	10.00	10.24	pg	2	15	
alpha-Chlordane	A	10325	10516	10.00	10.18	pg	2	15	
4,4'-DDE	A	9658.6	9838.1	20.00	20.37	pg	2	15	
Endosulfan I	A	9574.3	9638.3	10.00	10.07	pg	1	15	
Dieldrin	A	9695.0	10117	20.00	20.87	pg	4	15	
Endrin	A	7287.0	7291.1	20.00	20.01	pg	0	15	
4,4'-DDD	A	7211.9	7578.0	20.00	21.02	pg	5	15	
Endosulfan II	A	8500.7	9045.4	20.00	21.28	pg	6	15	
4,4'-DDT	A	7064.6	6381.8	20.00	18.07	pg	-10	15	
Methoxychlor	A	2698.4	2790.9	100.0	103.4	pg	3	15	
Endosulfan sulfate	A	6883.8	7336.4	20.00	21.32	pg	7	15	
Endrin ketone	A	7926.5	8506.3	20.00	21.46	pg	7	15	
TCMX	A	8917.4	9133.2	20.00	20.48	pg	2	15	
Decachlorobiphenyl	A	5651.6	5795.4	20.00	20.51	pg	3	15	
alpha-BHC	B	12135	11650	10.00	9.600	pg	-4	15	
gamma-BHC	B	10830	10325	10.00	9.534	pg	-5	15	
beta-BHC	B	4922.5	4718.3	10.00	9.585	pg	-4	15	
delta-BHC	B	10256	9915.2	10.00	9.668	pg	-3	15	
Heptachlor	B	9310.0	9179.2	10.00	9.859	pg	-1	15	
Aldrin	B	9758.5	9471.4	10.00	9.706	pg	-3	15	
Heptachlor epoxide	B	8676.1	8584.0	10.00	9.894	pg	-1	15	
gamma-Chlordane	B	9027.0	8909.6	10.00	9.870	pg	-1	15	
alpha-Chlordane	B	8652.2	8596.8	10.00	9.936	pg	-1	15	
4,4'-DDE	B	8199.8	8242.3	20.00	20.10	pg	1	15	
Endosulfan I	B	8222.2	8054.4	10.00	9.796	pg	-2	15	
Dieldrin	B	8235.1	8388.7	20.00	20.37	pg	2	15	
Endrin	B	5967.1	5775.8	20.00	19.36	pg	-3	15	
4,4'-DDD	B	6806.2	7658.4	20.00	22.50	pg	13	15	
Endosulfan II	B	6946.3	7316.4	20.00	21.07	pg	5	15	
4,4'-DDT	B	6473.3	5315.6	20.00	16.42	pg	**-18**	15	c- ***
Methoxychlor	B	2350.0	2199.5	100.0	93.60	pg	-6	15	
Endosulfan sulfate	B	6227.7	6403.9	20.00	20.57	pg	3	15	
Endrin ketone	B	7515.1	8268.9	20.00	22.01	pg	10	15	
TCMX	B	8003.4	7737.0	20.00	19.33	pg	-3	15	
Decachlorobiphenyl	B	5927.0	5646.7	20.00	19.05	pg	-5	15	
Average EPA 8081A	A	(n=22)					3	15	
Average EPA 8081A	B	(n=22)					5	15	

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185511 PEST Water
EPA 8081A

Inst : GC21 Run Name: pest_4 IDF : 1.0
Seqnum : 246110207021 File : 076_021 Time : 17-MAR-2006 19:44
Cal : 246090289001 Caldate : 03-MAR-2006
Standards: S2372

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	13797	13571	20.00	19.67	pg	-2	15	
gamma-BHC	A	12747	12966	20.00	20.34	pg	2	15	
beta-BHC	A	5380.5	5327.4	20.00	19.80	pg	-1	15	
delta-BHC	A	12658	12789	20.00	20.21	pg	1	15	
Heptachlor	A	10537	11250	20.00	21.35	pg	7	15	
Aldrin	A	11393	11387	20.00	19.99	pg	0	15	
Heptachlor epoxide	A	10353	10176	20.00	19.66	pg	-2	15	
gamma-Chlordane	A	10624	10514	20.00	19.79	pg	-1	15	
alpha-Chlordane	A	10325	10003	20.00	19.38	pg	-3	15	
4,4'-DDE	A	9658.6	9957.9	40.00	41.24	pg	3	15	
Endosulfan I	A	9574.3	9864.7	20.00	20.61	pg	3	15	
Dieldrin	A	9695.0	10243	40.00	42.26	pg	6	15	
Endrin	A	7287.0	7642.3	40.00	41.95	pg	5	15	
4,4'-DDD	A	7211.9	7557.7	40.00	41.92	pg	5	15	
Endosulfan II	A	8500.7	8749.7	40.00	41.17	pg	3	15	
4,4'-DDT	A	7064.6	7006.2	40.00	39.67	pg	-1	15	
Methoxychlor	A	2698.4	3036.2	200.0	225.0	pg	13	15	
Endosulfan sulfate	A	6883.8	6996.6	40.00	40.66	pg	2	15	
Endrin ketone	A	7926.5	8563.3	40.00	43.21	pg	8	15	
TCMX	A	8917.4	8532.9	40.00	38.27	pg	-4	15	
Decachlorobiphenyl	A	5651.6	5673.6	40.00	40.16	pg	0	15	
alpha-BHC	B	12135	12119	20.00	19.97	pg	0	15	
gamma-BHC	B	10830	11069	20.00	20.44	pg	2	15	
beta-BHC	B	4922.5	4908.3	20.00	19.94	pg	0	15	
delta-BHC	B	10256	10720	20.00	20.91	pg	5	15	
Heptachlor	B	9310.0	10127	20.00	21.76	pg	9	15	
Aldrin	B	9758.5	9961.0	20.00	20.41	pg	2	15	
Heptachlor epoxide	B	8676.1	8760.0	20.00	20.19	pg	1	15	
gamma-Chlordane	B	9027.0	9249.4	20.00	20.49	pg	2	15	
alpha-Chlordane	B	8652.2	8907.3	20.00	20.59	pg	3	15	
4,4'-DDE	B	8199.8	8821.6	40.00	43.03	pg	8	15	
Endosulfan I	B	8222.2	8686.6	20.00	21.13	pg	6	15	
Dieldrin	B	8235.1	8942.0	40.00	43.43	pg	9	15	
Endrin	B	5967.1	6332.1	40.00	42.45	pg	6	15	
4,4'-DDD	B	6806.2	8054.3	40.00	47.33	pg	**18**	15	c+ ***
Endosulfan II	B	6946.3	7711.1	40.00	44.40	pg	11	15	
4,4'-DDT	B	6473.3	6209.9	40.00	38.37	pg	-4	15	
Methoxychlor	B	2350.0	2302.1	200.0	195.9	pg	-2	15	
Endosulfan sulfate	B	6227.7	6606.2	40.00	42.43	pg	6	15	
Endrin ketone	B	7515.1	8563.9	40.00	45.58	pg	14	15	
TCMX	B	8003.4	7481.8	40.00	37.39	pg	-7	15	
Decachlorobiphenyl	B	5927.0	5869.4	40.00	39.61	pg	-1	15	
Average EPA 8081A	A	(n=22)					3	15	
Average EPA 8081A	B	(n=22)					6	15	

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185511 PEST Water
EPA 8081A

Inst : GC21 Run Name: pest_5 IDF : 1.0
Seqnum : 246110207036 File : 076_036 Time : 18-MAR-2006 00:04
Cal : 246090289001 Caldate : 03-MAR-2006
Standards: S2663

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	13797	13682	25.00	24.79	pg	-1	15	
gamma-BHC	A	12747	13024	25.00	25.54	pg	2	15	
beta-BHC	A	5380.5	5292.8	25.00	24.59	pg	-2	15	
delta-BHC	A	12658	13052	25.00	25.78	pg	3	15	
Heptachlor	A	10537	11126	25.00	26.40	pg	6	15	
Aldrin	A	11393	11463	25.00	25.15	pg	1	15	
Heptachlor epoxide	A	10353	10248	25.00	24.75	pg	-1	15	
gamma-Chlordane	A	10624	10465	25.00	24.62	pg	-2	15	
alpha-Chlordane	A	10325	10078	25.00	24.40	pg	-2	15	
4,4'-DDE	A	9658.6	10063	50.00	52.09	pg	4	15	
Endosulfan I	A	9574.3	9675.9	25.00	25.27	pg	1	15	
Dieldrin	A	9695.0	10251	50.00	52.87	pg	6	15	
Endrin	A	7287.0	7710.1	50.00	52.90	pg	6	15	
4,4'-DDD	A	7211.9	7356.1	50.00	51.00	pg	2	15	
Endosulfan II	A	8500.7	9307.4	50.00	54.74	pg	9	15	
4,4'-DDT	A	7064.6	6949.8	50.00	49.19	pg	-2	15	
Methoxychlor	A	2698.4	2890.1	250.0	267.8	pg	7	15	
Endosulfan sulfate	A	6883.8	7125.0	50.00	51.75	pg	4	15	
Endrin ketone	A	7926.5	8589.5	50.00	54.18	pg	8	15	
TCMX	A	8917.4	8630.6	50.00	48.39	pg	-3	15	
Decachlorobiphenyl	A	5651.6	5451.7	50.00	48.23	pg	-4	15	
alpha-BHC	B	12135	11824	25.00	24.36	pg	-3	15	
gamma-BHC	B	10830	10779	25.00	24.88	pg	0	15	
beta-BHC	B	4922.5	4748.2	25.00	24.11	pg	-4	15	
delta-BHC	B	10256	10476	25.00	25.54	pg	2	15	
Heptachlor	B	9310.0	9443.2	25.00	25.36	pg	1	15	
Aldrin	B	9758.5	9635.2	25.00	24.68	pg	-1	15	
Heptachlor epoxide	B	8676.1	8478.7	25.00	24.43	pg	-2	15	
gamma-Chlordane	B	9027.0	8899.2	25.00	24.65	pg	-1	15	
alpha-Chlordane	B	8652.2	8602.5	25.00	24.86	pg	-1	15	
4,4'-DDE	B	8199.8	8539.3	50.00	52.07	pg	4	15	
Endosulfan I	B	8222.2	8222.2	25.00	25.00	pg	0	15	
Dieldrin	B	8235.1	8544.1	50.00	51.88	pg	4	15	
Endrin	B	5967.1	5826.6	50.00	48.82	pg	-2	15	
4,4'-DDD	B	6806.2	7780.9	50.00	57.16	pg	14	15	
Endosulfan II	B	6946.3	7367.0	50.00	53.03	pg	6	15	
4,4'-DDT	B	6473.3	5576.8	50.00	43.08	pg	-14	15	
Methoxychlor	B	2350.0	2201.4	250.0	234.2	pg	-6	15	
Endosulfan sulfate	B	6227.7	6322.5	50.00	50.76	pg	2	15	
Endrin ketone	B	7515.1	8206.8	50.00	54.60	pg	9	15	
TCMX	B	8003.4	7494.2	50.00	46.82	pg	-6	15	
Decachlorobiphenyl	B	5927.0	5569.6	50.00	46.98	pg	-6	15	
Average EPA 8081A	A	(n=22)					4	15	
Average EPA 8081A	B	(n=22)					4	15	

SEQUENCE SUMMARY FOR 185511 PEST Water
Curtis & Tompkins Laboratories

Sequence: 246090289 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 03-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	062_001	X	primer			03-MAR-2006 15:05	1.0							
002	062_002	X	primer			03-MAR-2006 15:22	1.0							
003	062_003	X	primer			03-MAR-2006 15:40	1.0							
004	062_004	X	hex			03-MAR-2006 15:57	1.0							
005	062_005	PEM	pem			03-MAR-2006 16:14	1.0			1			1	
006	062_006	X	hex			03-MAR-2006 16:31	1.0							
007	062_007	ICAL	pest_1			03-MAR-2006 16:49	1.0						2	
008	062_008	ICAL	pest_2			03-MAR-2006 17:06	1.0						3	
009	062_009	ICAL	pest_3			03-MAR-2006 17:23	1.0						4	
010	062_010	ICAL	pest_4			03-MAR-2006 17:41	1.0						5	
011	062_011	ICAL	pest_5			03-MAR-2006 17:58	1.0						6	
012	062_012	ICAL	pest_6			03-MAR-2006 18:15	1.0						7	
013	062_013	ICAL	pest_7			03-MAR-2006 18:33	1.0						8	
014	062_014	X	hex			03-MAR-2006 18:50	1.0							
015	062_015	ICV	icv			03-MAR-2006 19:07	1.0	3		1			9	453
016	062_016	X	icv			03-MAR-2006 19:24	1.0						9	
017	062_017	X	hex			03-MAR-2006 19:42	1.0							

Stds used: 1=S2664 2=S2827 3=S2039 4=S2824 5=S2372 6=S2663 7=S2828 8=S2823 9=S2502

SEQUENCE SUMMARY FOR 185511 PEST Water
Curtis & Tompkins Laboratories

Sequence: 246110207 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 17-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	076_001	X	primer			17-MAR-2006 12:47	1.0						
002	076_002	X	primer			17-MAR-2006 13:04	1.0						
003	076_003	X	hex			17-MAR-2006 13:21	1.0						
004	076_004	X	pem			17-MAR-2006 13:39	1.0	1.0			1	1	
005	076_005	X	pest_3			17-MAR-2006 13:56	1.0					2	
006	076_006	CCV	pest_3			17-MAR-2006 14:14	1.0	1.0	1		1	2	
007	076_007	PEM	pem			17-MAR-2006 14:56	1.0	1.0			1	1	
008	076_008	X	hex			17-MAR-2006 15:57	1.0						
009	076_009	BLANK	QC331840	111389	Water	17-MAR-2006 16:15	1.0	0.01	1		1		
010	076_010	BS	QC331841	111389	Water	17-MAR-2006 16:32	1.0	0.01	2		1		
011	076_011	BSD	QC331842	111389	Water	17-MAR-2006 16:50	1.0	0.01	2		1		
012	076_012	SAMPLE	185527-001	111389	Water	17-MAR-2006 17:07	1.0	0.009615	3		1	2:XYL246=299.880	
013	076_013	SAMPLE	185527-002	111389	Water	17-MAR-2006 17:25	1.0	0.009615	1		1		
014	076_014	SAMPLE	185527-003	111389	Water	17-MAR-2006 17:42	1.0	0.009901	1		1		
015	076_015	SAMPLE	185527-004	111389	Water	17-MAR-2006 17:59	1.0	0.009524	1		1		454
016	076_016	SAMPLE	185567-001	111389	Water	17-MAR-2006 18:17	1.0	0.009615	1		1		
017	076_017	SAMPLE	185567-002	111389	Water	17-MAR-2006 18:34	1.0	0.009524	1	1	1		
018	076_018	SAMPLE	185567-003	111389	Water	17-MAR-2006 18:52	1.0	0.009901	1		1		
019	076_019	X	hex			17-MAR-2006 19:09	1.0						
020	076_020	PEM	pem			17-MAR-2006 19:26	1.0	1.0			1	1	
021	076_021	CCV	pest_4			17-MAR-2006 19:44	1.0	1.0	1		1	3	
022	076_022	X	pest_4			17-MAR-2006 20:01	1.0					3	
023	076_023	X	pem			17-MAR-2006 20:19	1.0					1	
024	076_024	X	hex			17-MAR-2006 20:36	1.0						
025	076_025	SAMPLE	185511-012	111389	Water	17-MAR-2006 20:53	1.0	0.009524		1	1	1:BHCDEL=144.723	
026	076_026	SAMPLE	185511-013	111389	Water	17-MAR-2006 21:11	1.0	0.009615			1		
027	076_027	SAMPLE	185558-011	111389	Water	17-MAR-2006 21:28	1.0	0.009434			1		
028	076_028	SAMPLE	185558-013	111389	Water	17-MAR-2006 21:45	1.0	0.009524			1		
029	076_029	SAMPLE	185558-014	111389	Water	17-MAR-2006 22:03	1.0	0.009524			1		
030	076_030	SAMPLE	185558-015	111389	Water	17-MAR-2006 22:20	1.0	0.009434			1		
031	076_031	SAMPLE	185566-001	111389	Water	17-MAR-2006 22:38	5.0	0.01			1		

Stds used: 1=S2664 2=S2824 3=S2372 4=S2663

SEQUENCE SUMMARY FOR 185511 PEST Water
Curtis & Tompkins Laboratories

Sequence: 246110207 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 17-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
032	076_032	SAMPLE	185567-004	111389	Water	17-MAR-2006 22:55	1.0	0.01053	1		
033	076_033	SAMPLE	185567-005	111389	Water	17-MAR-2006 23:12	1.0	0.01	1		
034	076_034	X	hex			17-MAR-2006 23:30	1.0				
035	076_035	PEM	pem			17-MAR-2006 23:47	1.0	1.0	1	1	
036	076_036	CCV	pest_5			18-MAR-2006 00:04	1.0	1.0	1	4	
037	076_037	X	pest_5			18-MAR-2006 00:22	1.0			4	
038	076_038	X	pem			18-MAR-2006 00:39	1.0	1.0	1	1	
039	076_039	X	hex			18-MAR-2006 00:57	1.0				

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Stds used: 1=S2664 2=S2824 3=S2372 4=S2663

REPORTING SUMMARY FOR 185511 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185511-012	alpha-BHC	GC21	A	03/17/06 20:53
185511-012	beta-BHC	GC21	A	03/17/06 20:53
185511-012	gamma-BHC	GC21	A	03/17/06 20:53
185511-012	delta-BHC	GC21	A	03/17/06 20:53
185511-012	Heptachlor	GC21	A	03/17/06 20:53
185511-012	Aldrin	GC21	A	03/17/06 20:53
185511-012	Heptachlor epoxide	GC21	A	03/17/06 20:53
185511-012	Endosulfan I	GC21	A	03/17/06 20:53
185511-012	Dieldrin	GC21	A	03/17/06 20:53
185511-012	4,4'-DDE	GC21	A	03/17/06 20:53
185511-012	Endrin	GC21	A	03/17/06 20:53
185511-012	Endosulfan II	GC21	A	03/17/06 20:53
185511-012	Endosulfan sulfate	GC21	A	03/17/06 20:53
185511-012	4,4'-DDD	GC21	A	03/17/06 20:53
185511-012	4,4'-DDT	GC21	A	03/17/06 20:53
185511-012	alpha-Chlordane	GC21	A	03/17/06 20:53
185511-012	gamma-Chlordane	GC21	A	03/17/06 20:53
185511-012	Methoxychlor	GC21	A	03/17/06 20:53
185511-012	Endrin ketone	GC21	A	03/17/06 20:53
185511-012	Toxaphene	GC21	A	03/17/06 20:53
185511-012	TCMX	GC21	B	03/17/06 20:53
185511-012	Decachlorobiphenyl	GC21	B	03/17/06 20:53
185511-013	alpha-BHC	GC21	A	03/17/06 21:11
185511-013	beta-BHC	GC21	A	03/17/06 21:11
185511-013	gamma-BHC	GC21	A	03/17/06 21:11
185511-013	delta-BHC	GC21	A	03/17/06 21:11
185511-013	Heptachlor	GC21	A	03/17/06 21:11
185511-013	Aldrin	GC21	A	03/17/06 21:11
185511-013	Heptachlor epoxide	GC21	A	03/17/06 21:11
185511-013	Endosulfan I	GC21	A	03/17/06 21:11
185511-013	Dieldrin	GC21	A	03/17/06 21:11
185511-013	4,4'-DDE	GC21	A	03/17/06 21:11
185511-013	Endrin	GC21	A	03/17/06 21:11
185511-013	Endosulfan II	GC21	A	03/17/06 21:11
185511-013	Endosulfan sulfate	GC21	A	03/17/06 21:11
185511-013	4,4'-DDD	GC21	A	03/17/06 21:11
185511-013	4,4'-DDT	GC21	A	03/17/06 21:11
185511-013	alpha-Chlordane	GC21	A	03/17/06 21:11
185511-013	gamma-Chlordane	GC21	A	03/17/06 21:11
185511-013	Methoxychlor	GC21	A	03/17/06 21:11
185511-013	Endrin ketone	GC21	A	03/17/06 21:11
185511-013	Toxaphene	GC21	A	03/17/06 21:11
185511-013	TCMX	GC21	A	03/17/06 21:11
185511-013	Decachlorobiphenyl	GC21	A	03/17/06 21:11
QC331840	alpha-BHC	GC21	A	03/17/06 16:15
QC331840	beta-BHC	GC21	A	03/17/06 16:15
QC331840	gamma-BHC	GC21	A	03/17/06 16:15
QC331840	delta-BHC	GC21	A	03/17/06 16:15
QC331840	Heptachlor	GC21	A	03/17/06 16:15
QC331840	Aldrin	GC21	A	03/17/06 16:15
QC331840	Heptachlor epoxide	GC21	A	03/17/06 16:15
QC331840	Endosulfan I	GC21	A	03/17/06 16:15

REPORTING SUMMARY FOR 185511 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC331840	Dieldrin	GC21	A	03/17/06 16:15
QC331840	4,4'-DDE	GC21	A	03/17/06 16:15
QC331840	Endrin	GC21	A	03/17/06 16:15
QC331840	Endosulfan II	GC21	A	03/17/06 16:15
QC331840	Endosulfan sulfate	GC21	A	03/17/06 16:15
QC331840	4,4'-DDD	GC21	A	03/17/06 16:15
QC331840	4,4'-DDT	GC21	A	03/17/06 16:15
QC331840	alpha-Chlordane	GC21	A	03/17/06 16:15
QC331840	gamma-Chlordane	GC21	A	03/17/06 16:15
QC331840	Methoxychlor	GC21	A	03/17/06 16:15
QC331840	Endrin ketone	GC21	A	03/17/06 16:15
QC331840	Toxaphene	GC21	A	03/17/06 16:15
QC331840	TCMX	GC21	A	03/17/06 16:15
QC331840	Decachlorobiphenyl	GC21	A	03/17/06 16:15
QC331841	gamma-BHC	GC21	A	03/17/06 16:32
QC331841	Heptachlor	GC21	A	03/17/06 16:32
QC331841	Aldrin	GC21	A	03/17/06 16:32
QC331841	Dieldrin	GC21	A	03/17/06 16:32
QC331841	Endrin	GC21	A	03/17/06 16:32
QC331841	4,4'-DDT	GC21	A	03/17/06 16:32
QC331841	TCMX	GC21	A	03/17/06 16:32
QC331841	Decachlorobiphenyl	GC21	A	03/17/06 16:32
QC331842	gamma-BHC	GC21	A	03/17/06 16:50
QC331842	Heptachlor	GC21	A	03/17/06 16:50
QC331842	Aldrin	GC21	A	03/17/06 16:50
QC331842	Dieldrin	GC21	A	03/17/06 16:50
QC331842	Endrin	GC21	A	03/17/06 16:50
QC331842	4,4'-DDT	GC21	A	03/17/06 16:50
QC331842	TCMX	GC21	A	03/17/06 16:50
QC331842	Decachlorobiphenyl	GC21	A	03/17/06 16:50

Curtis & Tompkins Laboratories **Sample Preparation Summary** **17-MAR-2006 12:00**

Batch Number : 111389
Date Extracted: 16-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : 8081
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2719A
Spike #2 ID : S2744G
Spike #3 ID :
SOP Version : 8081w_rv14

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185511-012		Treadwell & Rollo	Water	1050	mL	10	0.009524	1	5	.02	0		8081		
185511-013		Treadwell & Rollo	Water	1040	mL	10	0.009615	1	5	.02	0		8081		
185527-001		LFR Levine Fricke	Water	1040	mL	10	0.009615	1	6	.02	0		8081		
185527-002		LFR Levine Fricke	Water	1040	mL	10	0.009615	1	6	.02	0		8081		
185527-003		LFR Levine Fricke	Water	1010	mL	10	0.009901	1	5	.02	0		8081		
185527-004		LFR Levine Fricke	Water	1050	mL	10	0.009524	1	7	.02	0		8081		
185558-011		Treadwell & Rollo	Water	1060	mL	10	0.009434	1	7	.02	0		8081		
185558-013		Treadwell & Rollo	Water	1050	mL	10	0.009524	1	7	.02	0		8081		
185558-014		Treadwell & Rollo	Water	1050	mL	10	0.009524	1	7	.02	0		8081		
185558-015		Treadwell & Rollo	Water	1060	mL	10	0.009434	1	6	.02	0		8081		
185566-001		Tetra Tech EC, Inc.	Water	1000	mL	10	0.010000	1	7	.02	0		8081		
185567-001		LFR Levine Fricke	Water	1040	mL	10	0.009615	1	7	.02	0		8081		
185567-002		LFR Levine Fricke	Water	1050	mL	10	0.009524	1	7	.02	0		8081		
185567-003		LFR Levine Fricke	Water	1010	mL	10	0.009901	1	5	.02	0		8081		
185567-004		LFR Levine Fricke	Water	950	mL	10	0.010526	1	7	.02	0		8081		
185567-005		LFR Levine Fricke	Water	1000	mL	10	0.010000	1	7	.02	0		8081		
QC331840	BLANK		Water	1000	mL	10	0.010000	1		.02	0		8081		
QC331841	BS		Water	1000	mL	10	0.010000	1		.02	.025		8081		
QC331842	BSD		Water	1000	mL	10	0.010000	1		.02	.025		8081		

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Prep Chemist: Jessie Mee Reviewed By: [illegible] Date: 3/19/06

Relinquished By: Dan McCa Received By: [illegible] Date: 03/20/06

Curtis & Tompkins, Ltd

8081 WATER PREP LOG

BK2210

LIMS Batch No: 111389
LIMS Analysis: 8081
Extracted by: JDM
Date Extracted: 16 Mar 06

Extraction Method:
- ☐ EPA 3510c sep. funnel
- ☒ EPA 3520c cont. L/L
- ☐ _____

Cleanup Method (if needed):
- ☐ EPA 3640a GPC
- ☐ EPA 3620b Florisil
- ☐ _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185511-012S	1050	5	10.0		
13 R	1040	5			
185527-001 F		6			
02 E		~~5~~ 6			
03 F	1010	~~7~~ 5			
04 G	1050	7			
185558-011 J	1060				
13 L	1050				
14 I	1050				
15 K	1060	6			
185566-001 P	1000	7			
185567-001 G	1040				
02 F	1050				
03 E	1010	5			
04 F	950	7			
05 F	1000	7			
MB QC331840		NA			
BS 41					
BSD 42					

DLM 3/17/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.02 mL of surrogate solution was added to all samples	S2719A	JDM 3/16/06
0.025 mL of matrix spike solution was added to all spikes	S2744G	
☒ Samples continuously extracted with about 450 mL of CH_2Cl_2	EM46014	
Extraction Start Time:	1305	
Extraction End Time:	0705	DLM 3/17/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	
Extracts filtered through baked, CH_2Cl_2-rinsed ~~powdered~~ granular Na_2SO_4	EM45118532	
Exchanged 2x with Hexane	CP890	
Concentrated: ☑ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Florisil	NA	

Jessie Chee 3/16/06
Extraction Chemist Date

Contined from Page —
Continued on Page —

SL 3/19/06
Reviewed by Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8081A Water
As of 04/29/06

Analyte	Units	GC21 A	GC21 B	GC16 A	GC16 B	GC23 A	GC23 B
gamma-BHC	ug/L	0.0065	0.0039	0.0032	0.0025	0.0029	0.0039
Heptachlor	ug/L	0.0083	0.0056	0.0057	0.0061	0.0029	0.0055
Aldrin	ug/L	0.0094	0.0070	0.0066	0.0066	0.0062	0.0077
Dieldrin	ug/L	0.011	0.0051	0.0074	0.0070	0.0041	0.0097
Endrin	ug/L	0.012	0.011	0.0095	0.0083	0.0054	0.011
4,4'-DDT	ug/L	0.012	0.0071	0.011	0.0099	0.0088	0.0087
alpha-BHC	ug/L	0.0063	0.0040	0.0029	0.0027	0.0032	0.0049
beta-BHC	ug/L	0.0061	0.011	0.0033	0.0052	0.0029	0.0055
delta-BHC	ug/L	0.0065	0.0023	0.0040	0.0026	0.0018	0.0041
Heptachlor epoxide	ug/L	0.0066	0.0097	0.0033	0.0032	0.0028	0.0044
gamma-Chlordane	ug/L	0.0064	0.011	0.0041	0.0037	0.0020	0.0042
alpha-Chlordane	ug/L	0.010	0.0052	0.0045	0.0036	0.0023	0.0052
Endosulfan I	ug/L	0.0062	0.0033	0.0043	0.0032	0.0026	0.0048
4,4'-DDE	ug/L	0.011	0.0057	0.010	0.0082	0.0045	0.0097
Endosulfan II	ug/L	0.013	0.0077	0.0088	0.0073	0.0066	0.0097
Endosulfan sulfate	ug/L	0.0096	0.0054	0.015	0.0087	0.0054	0.0093
4,4'-DDD	ug/L	0.011	0.0096	0.0088	0.0090	0.0033	0.010
Endrin aldehyde	ug/L	0.010	0.0092	0.0084	0.0086	0.0052	0.0088
Chlordane (Technical)	ug/L	0.26	0.21	0.19	0.19	0.17	0.21
Methoxychlor	ug/L	0.050	0.018	0.057	0.080	0.043	0.051
Endrin ketone	ug/L	0.0083	0.023	0.027	0.0095	0.0051	0.015
Toxaphene	ug/L	0.47	0.32	0.39	0.34	0.54	0.29

PCBs

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Matrix:	Water	Sampled:	03/13/06
Units:	ug/L	Received:	03/14/06
Diln Fac:	1.000	Prepared:	03/16/06
Batch#:	111385		

Field ID:	DW031306A	Analyzed:	03/20/06
Type:	SAMPLE	Cleanup Method:	EPA 3665A
Lab ID:	185511-012		

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	0.99
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	125	65-135
Decachlorobiphenyl	100	65-135

Field ID:	DW031306B	Analyzed:	03/21/06
Type:	SAMPLE	Cleanup Method:	EPA 3665A
Lab ID:	185511-013		

Analyte	Result	RL
Aroclor-1016	ND	0.47
Aroclor-1221	ND	0.94
Aroclor-1232	ND	0.47
Aroclor-1242	ND	0.47
Aroclor-1248	ND	0.47
Aroclor-1254	ND	0.47
Aroclor-1260	ND	0.47

Surrogate	%REC	Limits
TCMX	130	65-135
Decachlorobiphenyl	122	65-135

Type:	BLANK	Analyzed:	03/19/06
Lab ID:	QC331819	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	91	65-135
Decachlorobiphenyl	94	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331820	Batch#:	111385
Matrix:	Water	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/19/06

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	10.00	8.157	82	60-140

Surrogate	%REC	Limits
TCMX	83	65-135
Decachlorobiphenyl	99	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Field ID:	1349MW02	Batch#:	111385
MSS Lab ID:	185457-016	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/16/06
Diln Fac:	1.000	Analyzed:	03/19/06

Type: MS Cleanup Method: EPA 3665A
Lab ID: QC331821

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1221	<0.2931	9.524	8.521	89	55-148

Surrogate	%REC	Limits
TCMX	110	65-135
Decachlorobiphenyl	103	65-135

Type: MSD Cleanup Method: EPA 3665A
Lab ID: QC331822

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1221	9.524	8.966	94	55-148	5	30

Surrogate	%REC	Limits
TCMX	117	65-135
Decachlorobiphenyl	110	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185511 PCBS Water: EPA 8082

Inst : GC06
Calnum : 206104291001
Units : pg

Name : ar1660
Date : 14-MAR-2006 02:43
X Axis : R

Reviewer: MCH
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	072_023	206104291023	pcb10_2	14 MAR-2006 02:43	S2097
L2	072_024	206104291024	pcb25_5	14-MAR-2006 03:11	S2098
L3	072_025	206104291025	pcb100_20	14-MAR-2006 03:38	S2099
L4	072_026	206104291026	pcb250_50	14-MAR-2006 04:06	S2770
L5	072_027	206104291027	pcb500_100	14-MAR-2006 04:33	S2771
L6	072_028	206104291028	pcb750_150	14-MAR-2006 05:01	S2102
L7	072_029	206104291029	pcb1000_200	14-MAR-2006 05:28	S2103

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aroclor-1016 Peak # 1	A	262.90	263.32	207.59	213.22	159.60	190.68	201.74	AVRG		0.00467		214.15	18	.99	20	
Aroclor-1016 Peak # 2	A	534.30	533.44	428.73	424.42	310.84	377.38	372.88	AVRG		0.00235		426.00	20	.99	20	
Aroclor-1016 Peak # 3	A	289.50	304.52	254.55	268.99	199.29	260.55	266.02	AVRG		0.00380		263.35	13	.99	20	
Aroclor-1016 Peak # 4	A	143.80	162.44	141.82	155.55	120.78	163.55	168.15	AVRG		0.00663		150.87	11	.99	20	
Aroclor-1016 Peak # 5	A	267.10	279.64	233.49	246.30	181.95	226.36	229.76	AVRG		0.00421		237.80	13	.99	20	
Aroclor-1260 Peak # 1	A	585.20	577.60	470.23	479.09	347.28	429.21	440.04	AVRG		0.00210		475.52	18	.99	20	
Aroclor-1260 Peak # 2	A	772.00	794.24	632.12	660.89	480.88	610.25	630.48	AVRG		0.00153		654.41	16	.99	20	
Aroclor-1260 Peak # 3	A	505.30	636.68	521.23	587.44	441.53	598.97	634.89	AVRG		0.00178		560.86	13	.99	20	
Aroclor-1260 Peak # 4	A	771.30	756.56	621.98	691.01	520.81	676.27	733.70	AVRG		0.00147		681.66	13	.99	20	
Aroclor-1260 Peak # 5	A	404.60	373.00	305.67	352.34	264.20	359.09	401.08	AVRG		0.00285		351.43	14	.99	20	
TCMX	A	7495.0	7536.8	6785.5	7954.7	6358.4	8370.8	8499.6	AVRG		1.32E-4		7571.5	10	.99	20	
Decachlorobiphenyl	A	9475.0	9992.0	8011.5	8905.5	6413.3	7766.5	8083.4	AVRG		1.19E-4		8378.2	14	.99	20	
Aroclor-1016 Peak # 1	B	171.90	164.00	135.67	144.30	109.22	137.52	139.21	AVRG		0.00699		143.12	14	.99	20	
Aroclor-1016 Peak # 2	B	218.10	210.76	175.96	184.10	138.35	177.10	178.23	AVRG		0.00546		183.23	14	.99	20	
Aroclor-1016 Peak # 3	B	493.40	484.40	391.11	441.40	339.29	474.04	499.59	AVRG		0.00224		446.18	14	.99	20	
Aroclor-1016 Peak # 4	B	251.70	244.08	204.19	218.89	163.92	215.68	223.32	AVRG		0.00460		217.40	13	.99	20	
Aroclor-1016 Peak # 5	B	155.30	161.36	134.01	139.58	101.86	128.66	130.05	AVRG		0.00736		135.83	14	.99	20	
Aroclor-1260 Peak # 1	B	412.60	449.84	356.44	373.21	273.01	344.08	355.21	AVRG		0.00273		366.34	15	.99	20	
Aroclor-1260 Peak # 2	B	279.40	205.84	231.57	247.06	180.64	213.19	236.33	AVRG		0.00439		227.72	14	.99	20	
Aroclor-1260 Peak # 3	B	264.10	267.40	220.72	240.41	178.12	230.78	248.81	AVRG		0.00424		235.76	13	.99	20	
Aroclor-1260 Peak # 4	B	493.40	528.32	443.66	499.70	380.76	501.69	554.38	AVRG		0.00206		485.99	12	.99	20	
Aroclor-1260 Peak # 5	B	241.00	248.40	211.88	242.96	186.05	258.49	283.67	AVRG		0.00419		238.92	13	.99	20	
TCMX	B	5011.5	5017.0	4667.7	5721.1	4666.5	6254.1	6443.1	AVRG		1.85E-4		5397.3	14	.99	20	
Decachlorobiphenyl	B	6621.0	6988.4	5649.0	6453.9	4623.1	5632.8	6084.9	AVRG		1.66E-4		6007.6	13	.99	20	

465

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185511 PCBS Water: EPA 8082

Inst : GC06
Calnum : 206105777001
Units : pg

Name : ar2154
Date : 14-MAR-2006 12:47
X Axis : R

Reviewer: MCH
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	073_005	206105777005	ar2154	14-MAR-2006 12:47	S2665

Analyte	Ch	L1	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aroclor-1221 Peak # 1	A	102.87	AVRG		0.00972		102.87	0	.99	20	
Aroclor-1221 Peak # 2	A	74.896	AVRG		0.01335		74.896	0	.99	20	
Aroclor-1221 Peak # 3	A	297.17	AVRG		0.00337		297.17	0	.99	20	
Aroclor-1221 Peak # 4	A	38.624	AVRG		0.02589		38.624	0	.99	20	
Aroclor-1221 Peak # 5	A	37.568	AVRG		0.02662		37.568	0	.99	20	
Aroclor-1254 Peak # 1	A	334.31	AVRG		0.00299		334.31	0	.99	20	
Aroclor-1254 Peak # 2	A	433.24	AVRG		0.00231		433.24	0	.99	20	
Aroclor-1254 Peak # 3	A	308.04	AVRG		0.00325		308.04	0	.99	20	
Aroclor-1254 Peak # 4	A	521.41	AVRG		0.00192		521.41	0	.99	20	
Aroclor-1254 Peak # 5	A	357.48	AVRG		0.00280		357.48	0	.99	20	
Aroclor-1221 Peak # 1	B	73.132	AVRG		0.01367		73.132	0	.99	20	
Aroclor-1221 Peak # 2	B	66.468	AVRG		0.01504		66.468	0	.99	20	
Aroclor-1221 Peak # 3	B	57.244	AVRG		0.01747		57.244	0	.99	20	
Aroclor-1221 Peak # 4	B	204.03	AVRG		0.00490		204.03	0	.99	20	
Aroclor-1221 Peak # 5	B	41.372	AVRG		0.02417		41.372	0	.99	20	
Aroclor-1254 Peak # 1	B	282.06	AVRG		0.00355		282.06	0	.99	20	
Aroclor-1254 Peak # 2	B	321.39	AVRG		0.00311		321.39	0	.99	20	
Aroclor-1254 Peak # 3	B	192.23	AVRG		0.00520		192.23	0	.99	20	
Aroclor-1254 Peak # 4	B	385.57	AVRG		0.00259		385.57	0	.99	20	
Aroclor-1254 Peak # 5	B	262.24	AVRG		0.00381		262.24	0	.99	20	

467

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

206105777001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185511 PCBS Water
EPA 8082

Inst : GC06 Name : ar1660
Calnum : 206104291001 Cal Date: 14-MAR-2006

ICV 206104291031 (072_031 14-MAR-2006) stds: S2181

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Aroclor-1016	A	250.0	235.5	pg	-6	15	
Aroclor-1260	A	250.0	237.4	pg	-5	15	
Aroclor-1016	B	250.0	228.0	pg	-9	15	
Aroclor-1260	B	250.0	258.1	pg	3	15	

CONTINUING CALIBRATION SUMMARY FOR 185511 PCBS Water
Curtis & Tompkins Laboratories

Analyte: Aroclor-1016

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	206110134004	19-MAR-2006 12:07	206104291001	14-MAR-2006			500.00	470.09	pg	-6	15	
GC06	B	206110134004	19-MAR-2006 12:07	206104291001	14-MAR-2006			500.00	465.51	pg	-7	15	
GC06	A	206110134020	19-MAR-2006 19:27	206104291001	14-MAR-2006			250.00	258.72	pg	3	15	
GC06	B	206110134020	19-MAR-2006 19:27	206104291001	14-MAR-2006			250.00	257.64	pg	3	15	
GC06	A	206110134037	20-MAR-2006 03:15	206104291001	14-MAR-2006			100.00	107.51	pg	8	15	
GC06	B	206110134037	20-MAR-2006 03:15	206104291001	14-MAR-2006			100.00	103.99	pg	4	15	
GC06	A	206110134053	20-MAR-2006 14:46	206104291001	14-MAR-2006			500.00	493.42	pg	-1	15	
GC06	B	206110134053	20-MAR-2006 14:46	206104291001	14-MAR-2006			500.00	511.23	pg	2	15	
GC06	A	206110134071	21-MAR-2006 01:21	206104291001	14-MAR-2006			250.00	278.87	pg	12	15	
GC06	B	206110134071	21-MAR-2006 01:21	206104291001	14-MAR-2006			250.00	279.29	pg	12	15	
GC06	A	206110134085	21-MAR-2006 07:47	206104291001	14-MAR-2006			100.00	114.05	pg	14	15	
GC06	B	206110134085	21-MAR-2006 07:47	206104291001	14-MAR-2006			100.00	110.03	pg	10	15	

CONTINUING CALIBRATION SUMMARY FOR 185511 PCBS Water
Curtis & Tompkins Laboratories

Analyte: Aroclor-1221

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	206110134006	19-MAR-2006 13:02	206105777001	14-MAR-2006			250.00	239.47	pg	-4	15	
GC06	B	206110134006	19-MAR-2006 13:02	206105777001	14-MAR-2006			250.00	248.47	pg	-1	15	
GC06	A	206110134022	19-MAR-2006 20:22	206105777001	14-MAR-2006			250.00	241.72	pg	-3	15	
GC06	B	206110134022	19-MAR-2006 20:22	206105777001	14-MAR-2006			250.00	235.03	pg	-6	15	
GC06	A	206110134038	20-MAR-2006 03:43	206105777001	14-MAR-2006			250.00	265.51	pg	6	15	
GC06	B	206110134038	20-MAR-2006 03:43	206105777001	14-MAR-2006			250.00	231.25	pg	-8	15	
GC06	A	206110134054	20-MAR-2006 15:14	206105777001	14-MAR-2006			250.00	255.28	pg	2	15	
GC06	B	206110134054	20-MAR-2006 15:14	206105777001	14-MAR-2006			250.00	259.30	pg	4	15	
GC06	A	206110134073	21-MAR-2006 02:16	206105777001	14-MAR-2006			250.00	284.65	pg	14	15	
GC06	B	206110134073	21-MAR-2006 02:16	206105777001	14-MAR-2006			250.00	294.46	pg	**18**	15	c+ ***

+=high bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 185511 PCBS Water
Curtis & Tompkins Laboratories

Analyte: Aroclor-1254

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	206110134006	19-MAR-2006 13:02	206105777001	14-MAR-2006			250.00	238.59	pg	-5	15	
GC06	B	206110134006	19-MAR-2006 13:02	206105777001	14-MAR-2006			250.00	236.18	pg	-6	15	
GC06	A	206110134022	19-MAR-2006 20:22	206105777001	14-MAR-2006			250.00	225.58	pg	-10	15	
GC06	B	206110134022	19-MAR-2006 20:22	206105777001	14-MAR-2006			250.00	230.27	pg	-8	15	
GC06	A	206110134038	20-MAR-2006 03:43	206105777001	14-MAR-2006			250.00	240.75	pg	-4	15	
GC06	B	206110134038	20-MAR-2006 03:43	206105777001	14-MAR-2006			250.00	219.33	pg	-12	15	
GC06	A	206110134054	20-MAR-2006 15:14	206105777001	14-MAR-2006			250.00	247.54	pg	-1	15	
GC06	B	206110134054	20-MAR-2006 15:14	206105777001	14-MAR-2006			250.00	265.01	pg	6	15	
GC06	A	206110134073	21-MAR-2006 02:16	206105777001	14-MAR-2006			250.00	271.75	pg	9	15	
GC06	B	206110134073	21-MAR-2006 02:16	206105777001	14-MAR-2006			250.00	281.59	pg	13	15	

CONTINUING CALIBRATION SUMMARY FOR 185511 PCBS Water
Curtis & Tompkins Laboratories

Analyte: Aroclor-1260

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	206110134004	19-MAR-2006 12:07	206104291001	14-MAR-2006			500.00	456.62	pg	-9	15	
GC06	B	206110134004	19-MAR-2006 12:07	206104291001	14-MAR-2006			500.00	456.72	pg	-9	15	
GC06	A	206110134020	19-MAR-2006 19:27	206104291001	14-MAR-2006			250.00	232.59	pg	-7	15	
GC06	B	206110134020	19-MAR-2006 19:27	206104291001	14-MAR-2006			250.00	222.72	pg	-11	15	
GC06	A	206110134037	20-MAR-2006 03:15	206104291001	14-MAR-2006			100.00	91.733	pg	-8	15	
GC06	B	206110134037	20-MAR-2006 03:15	206104291001	14-MAR-2006			100.00	91.716	pg	-8	15	
GC06	A	206110134053	20-MAR-2006 14:46	206104291001	14-MAR-2006			500.00	445.52	pg	-11	15	
GC06	B	206110134053	20-MAR-2006 14:46	206104291001	14-MAR-2006			500.00	444.45	pg	-11	15	
GC06	A	206110134071	21-MAR-2006 01:21	206104291001	14-MAR-2006			250.00	277.71	pg	11	15	
GC06	B	206110134071	21-MAR-2006 01:21	206104291001	14-MAR-2006			250.00	274.73	pg	10	15	
GC06	A	206110134085	21-MAR-2006 07:47	206104291001	14-MAR-2006			100.00	101.00	pg	1	15	
GC06	B	206110134085	21-MAR-2006 07:47	206104291001	14-MAR-2006			100.00	103.33	pg	3	15	

CONTINUING CALIBRATION SUMMARY FOR 185511 PCBS Water
Curtis & Tompkins Laboratories

Analyte: TCMX

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	206110134004	19-MAR-2006 12:07	206104291001	14-MAR-2006	7571.5	7929.2	100.00	104.72	pg	5	15	
GC06	B	206110134004	19-MAR-2006 12:07	206104291001	14-MAR-2006	5397.3	5824.7	100.00	107.92	pg	8	15	
GC06	A	206110134020	19-MAR-2006 19:27	206104291001	14-MAR-2006	7571.5	8311.9	50.000	54.889	pg	10	15	
GC06	B	206110134020	19-MAR-2006 19:27	206104291001	14-MAR-2006	5397.3	5974.2	50.000	55.344	pg	11	15	
GC06	A	206110134037	20-MAR-2006 03:15	206104291001	14-MAR-2006	7571.5	7720.9	20.000	20.394	pg	2	15	
GC06	B	206110134037	20-MAR-2006 03:15	206104291001	14-MAR-2006	5397.3	5364.7	20.000	19.879	pg	-1	15	
GC06	A	206110134053	20-MAR-2006 14:46	206104291001	14-MAR-2006	7571.5	8496.5	100.00	112.22	pg	12	15	
GC06	B	206110134053	20-MAR-2006 14:46	206104291001	14-MAR-2006	5397.3	6350.7	100.00	117.66	pg	**18**	15	c+
GC06	A	206110134071	21-MAR-2006 01:21	206104291001	14-MAR-2006	7571.5	9014.0	50.000	59.526	pg	**19**	15	c+
GC06	B	206110134071	21-MAR-2006 01:21	206104291001	14-MAR-2006	5397.3	6553.1	50.000	60.708	pg	**21**	15	c+
GC06	A	206110134085	21-MAR-2006 07:47	206104291001	14-MAR-2006	7571.5	8226.8	20.000	21.731	pg	9	15	
GC06	B	206110134085	21-MAR-2006 07:47	206104291001	14-MAR-2006	5397.3	5715.2	20.000	21.178	pg	6	15	

+=high bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 185511 PCBS Water
Curtis & Tompkins Laboratories

Analyte: Decachlorobiphenyl

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	206110134004	19-MAR-2006 12:07	206104291001	14-MAR-2006	8378.2	7174.4	100.00	85.632	pg	-14	15	
GC06	B	206110134004	19-MAR-2006 12:07	206104291001	14-MAR-2006	6007.6	5495.8	100.00	91.482	pg	-9	15	
GC06	A	206110134020	19-MAR-2006 19:27	206104291001	14-MAR-2006	8378.2	7370.1	50.000	43.984	pg	-12	15	
GC06	B	206110134020	19-MAR-2006 19:27	206104291001	14-MAR-2006	6007.6	5345.6	50.000	44.491	pg	-11	15	
GC06	A	206110134037	20-MAR-2006 03:15	206104291001	14-MAR-2006	8378.2	7953.8	20.000	18.987	pg	-5	15	
GC06	B	206110134037	20-MAR-2006 03:15	206104291001	14-MAR-2006	6007.6	5714.1	20.000	19.023	pg	-5	15	
GC06	A	206110134053	20-MAR-2006 14:46	206104291001	14-MAR-2006	8378.2	6003.1	100.00	71.652	pg	**-28**	15	c-
GC06	B	206110134053	20-MAR-2006 14:46	206104291001	14-MAR-2006	6007.6	4485.1	100.00	74.658	pg	**-25**	15	c-
GC06	A	206110134071	21-MAR-2006 01:21	206104291001	14-MAR-2006	8378.2	8836.5	50.000	52.735	pg	5	15	
GC06	B	206110134071	21-MAR-2006 01:21	206104291001	14-MAR-2006	6007.6	6591.2	50.000	54.857	pg	10	15	
GC06	A	206110134085	21-MAR-2006 07:47	206104291001	14-MAR-2006	8378.2	8216.2	20.000	19.613	pg	-2	15	
GC06	B	206110134085	21-MAR-2006 07:47	206104291001	14-MAR-2006	6007.6	5879.9	20.000	19.575	pg	-2	15	

-=low bias c=CCV

SEQUENCE SUMMARY FOR 185511 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206104291 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 13-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	072_001	X	hex			13-MAR-2006 10:11	1.0						
002	072_002	X	pcb250_50			13-MAR-2006 10:38	1.0					1	
003	072_003	X	ccv			13-MAR-2006 11:06	1.0					1	
004	072_004	X	hex			13-MAR-2006 11:43	1.0						
005	072_005	X	pcb250_50			13-MAR-2006 12:10	1.0					1	
006	072_006	CCV	pcb250_50			13-MAR-2006 12:38	1.0	1.0			1	1	
007	072_007	CCV	ar2154			13-MAR-2006 19:24	1.0	1.0			1	2	
008	072_008	X	ccv			13-MAR-2006 19:51	1.0					2	
009	072_009	X	hex			13-MAR-2006 20:19	1.0						
010	072_010	BLANK	QC331127	111220	Water	13-MAR-2006 20:46	1.0	0.025	1	1	1		
011	072_011	BS	QC331128	111220	Water	13-MAR-2006 21:14	1.0	0.025		2	1		
012	072_012	BSD	QC331129	111220	Water	13-MAR-2006 21:41	1.0	0.025		2	1		
013	072_013	SAMPLE	185464-001	111220	Water	13-MAR-2006 22:08	1.0	0.02381	18		1	sh	
014	072_014	SAMPLE	185327-003	111144	Soil	13-MAR-2006 22:36	1.0	0.8333	1		1		
015	072_015	SAMPLE	185327-004	111144	Soil	13-MAR-2006 23:03	1.0	0.8336	1		1		475
016	072_016	X	hex			13-MAR-2006 23:31	1.0						
017	072_017	CCV	pcb750_150			13-MAR-2006 23:58	1.0	1.0	1		1	3	
018	072_018	X	ccv			14-MAR-2006 00:26	2102						
019	072_019	CCV	ar2154			14-MAR-2006 00:53	1.0	1.0			1	2	
020	072_020	X	ccv			14-MAR-2006 01:21	1.0					2	
021	072_021	X	hex			14-MAR-2006 01:48	1.0						
022	072_022	X	hex			14-MAR-2006 02:16	1.0						
023	072_023	ICAL	pcb10_2			14-MAR-2006 02:43	1.0	1.0				4	
024	072_024	ICAL	pcb25_5			14-MAR-2006 03:11	1.0	1.0				5	
025	072_025	ICAL	pcb100_20			14-MAR-2006 03:38	1.0	1.0				6	
026	072_026	ICAL	pcb250_50			14-MAR-2006 04:06	1.0	1.0				1	
027	072_027	ICAL	pcb500_100			14-MAR-2006 04:33	1.0	1.0				7	
028	072_028	ICAL	pcb750_150			14-MAR-2006 05:01	1.0	1.0				3	
029	072_029	ICAL	pcb1000_200			14-MAR-2006 05:28	1.0	1.0				8	
030	072_030	X	hex			14-MAR-2006 05:55	1.0						

Stds used: 1=S2770 2=S2665 3=S2102 4=S2097 5=S2098 6=S2099 7=S2771 8=S2103 9=S2181
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 185511 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206104291 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 13-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
031	072_031	ICV	ultra_1660			14-MAR-2006 06:23	1.0	1.0		1	9	
032	072_032	X	icv			14-MAR-2006 06:51	1.0				9	
033	072_033	X	hex			14-MAR-2006 07:18	1.0					

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Stds used: 1=S2770 2=S2665 3=S2102 4=S2097 5=S2098 6=S2099 7=S2771 8=S2103 9=S2181
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 185511 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206105777 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 14-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	073_001	X	hex			14-MAR-2006 10:57	1.0						
002	073_002	CCV	pcb500_100			14-MAR-2006 11:25	1.0	1.0			1	1	
003	073_003	X	pcb500_100			14-MAR-2006 11:52	1.0					1	
004	073_004	X	ccv			14-MAR-2006 12:20	1.0					2	
005	073_005	ICAL	ar2154			14-MAR-2006 12:47	1.0	1.0				2	
006	073_006	BS	QC331128	111220	Water	14-MAR-2006 13:23	1.0	0.025			1		
007	073_007	BSD	QC331129	111220	Water	14-MAR-2006 13:51	1.0	0.025			1		
008	073_008	X	ccv			14-MAR-2006 19:00	1.0					3	
009	073_009	X	ccv			14-MAR-2006 19:27	1.0					3	
010	073_010	X	ccv			14-MAR-2006 19:55	1.0					4	
011	073_011	ICAL	ar1248			14-MAR-2006 20:23	1.0	1.0				5	
012	073_012	X	hex			14-MAR-2006 20:50	1.0						
013	073_013	BLANK	QC331271	111254	Soil	14-MAR-2006 21:18	1.0	0.6707		4	1		
014	073_014	LCS	QC331275	111254	Soil	14-MAR-2006 21:45	1.0	0.6739			1		
015	073_015	SAMPLE	185004-012	111036	Soil	14-MAR-2006 22:13	1.0	0.6667	20		1	sh	477
016	073_016	MSS	184976-021	110898	Soil	14-MAR-2006 22:40	1.0	0.6739			1		
017	073_017	SAMPLE	184976-023	110898	Soil	14-MAR-2006 23:08	1.0	0.6671			1		
018	073_018	MSS	185417-001	111254	Soil	14-MAR-2006 23:35	1.0	0.6596			1		
019	073_019	SAMPLE	185417-002	111254	Soil	15-MAR-2006 00:03	1.0	0.6658			1		
020	073_020	SAMPLE	185490-001	111254	Soil	15-MAR-2006 00:30	1.0	0.6687			1		
021	073_021	X	hex			15-MAR-2006 00:58	1.0						
022	073_022	X	pcb250_50			15-MAR-2006 01:25	1.0					6	
023	073_023	CCV	pcb250_50			15-MAR-2006 01:53	1.0	1.0			1	6	
024	073_024	CCV	ar2154			15-MAR-2006 02:20	1.0	1.0			1	2	
025	073_025	X	ccv			15-MAR-2006 02:48	1.0					2	
026	073_026	X	ccv			15-MAR-2006 03:15	1.0					3	
027	073_027	X	ccv			15-MAR-2006 03:43	1.0					3	
028	073_028	ICAL	ar1242			15-MAR-2006 04:10	1.0	1.0				4	
029	073_029	CCV	ar1248			15-MAR-2006 04:38	1.0	1.0			1	5	
030	073_030	X	hex			15-MAR-2006 05:05	1.0						

Stds used: 1=S2101 2=S2665 3=S2638 4=S2524 5=S2706 6=S2770 7=S2102
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 185511 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206105777 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 14-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
031	073_031	SAMPLE	185461-003	111254	Soil	15-MAR-2006 05:33	1.0	0.6588			1		
032	073_032	SAMPLE	185406-016	111254	Miscel	15-MAR-2006 06:00	1.0	0.6575			1		
033	073_033	SAMPLE	185406-017	111254	Miscel	15-MAR-2006 06:28	1.0	0.6716	1		1		1:PCB126=1570.96
034	073_034	SAMPLE	185406-018	111254	Miscel	15-MAR-2006 06:55	1.0						
035	073_035	MSS	185406-019	111254	Miscel	15-MAR-2006 07:23	1.0	0.6723			1		
036	073_036	MS	QC331276	111254	Miscel	15-MAR-2006 07:50	1.0	0.6616			1		
037	073_037	MSD	QC331277	111254	Miscel	15-MAR-2006 08:18	1.0	0.675		4	1		2:PCB101=1278.98
038	073_038	X	hex			15-MAR-2006 08:45	1.0						
039	073_039	BLANK	QC331271	111254	Soil	15-MAR-2006 09:35	1.0	0.6707		4	1		
040	073_040	CCV	pcb750_150			15-MAR-2006 10:03	1.0	1.0			1	7	
041	073_041	X	ccv			15-MAR-2006 10:30	2102						
042	073_042	CCV	2154			15-MAR-2006 10:58	1.0	1.0			1	2	
043	073_043	X	ccv			15-MAR-2006 11:25	1.0					2	
044	073_044	CCV	ar1242			15-MAR-2006 12:04	1.0	1.0			1	4	
045	073_045	X	ccv			15-MAR-2006 12:31	1.0					4	

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Stds used: 1=S2101 2=S2665 3=S2638 4=S2524 5=S2706 6=S2770 7=S2102
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 185511 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206110134 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 17-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	076_001	X	hex			17-MAR-2006 11:34	1.0						
002	076_002	X	pcb500_100			17-MAR-2006 12:02	1.0					1	
003	076_003	X	pcb500_100			17-MAR-2006 12:29	1.0					1	
004	076_004	CCV	pcb500_100			19-MAR-2006 12:07	1.0	1.0			1	1	
005	076_005	X	pcb500_100			19-MAR-2006 12:34	1.0					1	
006	076_006	CCV	ar2154			19-MAR-2006 13:02	1.0	1.0			1	2	
007	076_007	X	ccv			19-MAR-2006 13:29	1.0					2	
008	076_008	X	hex			19-MAR-2006 13:57	1.0						
009	076_009	BLANK	QC331949	111414	Soil	19-MAR-2006 14:24	1.0	0.6633			1		
010	076_010	LCS	QC331950	111414	Soil	19-MAR-2006 14:52	1.0	0.6636			1		
011	076_011	BLANK	QC331819	111385	Water	19-MAR-2006 15:19	1.0	0.025			1		
012	076_012	LCS	QC331820	111385	Water	19-MAR-2006 15:47	1.0	0.025			1		
013	076_013	MSS	185457-016	111385	Water	19-MAR-2006 16:15	1.0	0.02381			1		
014	076_014	MS	QC331821	111385	Water	19-MAR-2006 16:42	1.0	0.02381			1		
015	076_015	MSD	QC331822	111385	Water	19-MAR-2006 17:10	1.0	0.02381			1		
016	076_016	MSS	185575-008	111414	Soil	19-MAR-2006 17:37	1.0	0.6656			1		
017	076_017	MS	QC331951	111414	Soil	19-MAR-2006 18:05	1.0	0.6664			1		
018	076_018	MSD	QC331952	111414	Soil	19-MAR-2006 18:32	1.0	0.6709			1		
019	076_019	X	hex			19-MAR-2006 19:00	1.0						
020	076_020	CCV	pcb250_50			19-MAR-2006 19:27	1.0	1.0			1	3	
021	076_021	X	pcb250_50			19-MAR-2006 19:55	1.0	1.0	2		1	3	
022	076_022	CCV	ar2154			19-MAR-2006 20:22	1.0	1.0			1	2	
023	076_023	X	ccv			19-MAR-2006 20:50	1.0					2	
024	076_024	X	hex			19-MAR-2006 21:17	1.0						
025	076_025	SAMPLE	185540-001	111414	Miscel	19-MAR-2006 21:45	1.0	0.6612			1		
026	076_026	SAMPLE	185540-002	111414	Miscel	19-MAR-2006 22:12	1.0	0.6757			1		
027	076_027	SAMPLE	185540-003	111414	Miscel	19-MAR-2006 22:40	1.0	0.6754			1		
028	076_028	SAMPLE	185540-004	111414	Miscel	19-MAR-2006 23:08	1.0	0.6766			1		
029	076_029	SAMPLE	185540-005	111414	Miscel	19-MAR-2006 23:35	1.0	0.6757			1		
030	076_030	SAMPLE	185540-006	111414	Miscel	20-MAR-2006 00:03	1.0	0.672			1		
031	076_031	SAMPLE	185540-007	111414	Miscel	20-MAR-2006 00:30	1.0	0.6609			1		

Stds used: 1=S2101 2=S2665 3=S2770 4=S2099 5=S2638

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SEQUENCE SUMMARY FOR 185511 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206110134 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 17-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	076_032	SAMPLE	185540-008	111414	Miscel	20-MAR-2006 00:58	1.0	0.6709			1		
033	076_033	SAMPLE	185545-001	111414	Soil	20-MAR-2006 01:25	1.0						
034	076_034	SAMPLE	185545-002	111414	Soil	20-MAR-2006 01:53	1.0	0.6748			1		
035	076_035	X	hex			20-MAR-2006 02:20	1.0						
036	076_036	X	pcb100_20			20-MAR-2006 02:48	1.0					4	
037	076_037	CCV	pcb100_20			20-MAR-2006 03:15	1.0	1.0			1	4	
038	076_038	CCV	ar2154			20-MAR-2006 03:43	1.0	1.0			1	2	
039	076_039	X	ccv			20-MAR-2006 04:10	1.0					2	
040	076_040	X	hex			20-MAR-2006 08:48	1.0						
041	076_041	MSS	185545-003	111414	Soil	20-MAR-2006 09:16	1.0						
042	076_042	SAMPLE	185545-004	111414	Soil	20-MAR-2006 09:43	1.0	0.6649			1		
043	076_043	SAMPLE	185575-001	111414	Soil	20-MAR-2006 10:11	1.0						
044	076_044	SAMPLE	185575-002	111414	Soil	20-MAR-2006 10:38	1.0						
045	076_045	SAMPLE	185575-003	111414	Soil	20-MAR-2006 11:06	1.0						
046	076_046	SAMPLE	185575-004	111414	Soil	20-MAR-2006 11:33	1.0						480
047	076_047	SAMPLE	185575-005	111414	Soil	20-MAR-2006 12:01	1.0						
048	076_048	SAMPLE	185575-006	111414	Soil	20-MAR-2006 12:28	1.0						
049	076_049	SAMPLE	185575-007	111414	Soil	20-MAR-2006 12:56	1.0						
050	076_050	SAMPLE	185511-012	111385	Water	20-MAR-2006 13:23	1.0	0.02475			1		
051	076_051	X	hex			20-MAR-2006 13:51	1.0						
052	076_052	X	pcb500_100			20-MAR-2006 14:18	1.0					1	
053	076_053	CCV	pcb500_100			20-MAR-2006 14:46	1.0	1.0			1	1	
054	076_054	CCV	ar2154			20-MAR-2006 15:14	1.0	1.0			1	2	
055	076_055	X	ccv			20-MAR-2006 15:41	1.0					2	
056	076_056	X	hex			20-MAR-2006 16:09	1.0						
057	076_057	X	ar1268			20-MAR-2006 18:56	1.0	1.0				5	
058	076_058	X	ccv			20-MAR-2006 19:24	1.0					5	
059	076_059	X	hex			20-MAR-2006 19:51	1.0						
060	076_060	MSS	185575-008	111414	Soil	20-MAR-2006 20:19	1.0						
061	076_061	SAMPLE	185545-001	111414	Soil	20-MAR-2006 20:46	10.0	0.677			1		
062	076_062	MSS	185545-003	111414	Soil	20-MAR-2006 21:14	10.0	0.67	12		1		12:PCB126=1600.01

Stds used: 1=S2101 2=S2665 3=S2770 4=S2099 5=S2638

SEQUENCE SUMMARY FOR 185511 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206110134 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 17-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
063	076_063	SAMPLE	185575-001	111414	Soil	20-MAR-2006 21:41	50.0						
064	076_064	SAMPLE	185575-002	111414	Soil	20-MAR-2006 22:09	10.0						
065	076_065	SAMPLE	185575-003	111414	Soil	20-MAR-2006 22:36	1.0						
066	076_066	SAMPLE	185575-004	111414	Soil	20-MAR-2006 23:04	25.0						
067	076_067	?SAMPLE	185575-005	111414		20-MAR-2006 23:31	1.0						
068	076_068	SAMPLE	185575-006	111414	Soil	20-MAR-2006 23:59	5.0						
069	076_069	SAMPLE	185575-007	111414	Soil	21-MAR-2006 00:26	5.0						
070	076_070	X	hex			21-MAR-2006 00:54	1.0						
071	076_071	CCV	pcb250_50			21-MAR-2006 01:21	1.0	1.0			1	3	
072	076_072	X	pcb250_50			21-MAR-2006 01:49	1.0					3	
073	076_073	CCV	ar2154			21-MAR-2006 02:16	1.0	1.0	1		1	2	
074	076_074	X	ccv			21-MAR-2006 02:44	1.0					2	
075	076_075	X	ccv			21-MAR-2006 03:11	1.0					5	
076	076_076	X	ccv			21-MAR-2006 03:39	1.0					5	
077	076_077	X	hex			21-MAR-2006 04:06	1.0						481
078	076_078	SAMPLE	185511-013	111385	Water	21-MAR-2006 04:34	1.0	0.02358			1		
079	076_079	SAMPLE	185558-011	111385	Water	21-MAR-2006 05:02	1.0	0.02404			1		
080	076_080	SAMPLE	185558-013	111385	Water	21-MAR-2006 05:29	1.0	0.02381			1		
081	076_081	SAMPLE	185558-014	111385	Water	21-MAR-2006 05:57	1.0	0.02381			1		
082	076_082	SAMPLE	185558-015	111385	Water	21-MAR-2006 06:24	1.0	0.02381			1		
083	076_083	SAMPLE	185566-001	111385	Water	21-MAR-2006 06:52	1.0	0.02			1		
084	076_084	X	hex			21-MAR-2006 07:19	1.0						
085	076_085	CCV	pcb100_20			21-MAR-2006 07:47	1.0	1.0			1	4	
086	076_086	X	ccv			21-MAR-2006 08:14	1.0					4	
087	076_087	X	ccv			21-MAR-2006 08:42	1.0					2	
088	076_088	X	ccv			21-MAR-2006 09:09	1.0					2	
089	076_089	X	ccv			21-MAR-2006 09:37	1.0					5	
090	076_090	X	ccv			21-MAR-2006 10:04	1.0					5	
091	076_091	X	hex			21-MAR-2006 10:32	1.0						

Stds used: 1=S2101 2=S2665 3=S2770 4=S2099 5=S2638

REPORTING SUMMARY FOR 185511 PCBS Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185511-012	Aroclor-1016	GC06	A	03/20/06 13:23
185511-012	Aroclor-1221	GC06	A	03/20/06 13:23
185511-012	Aroclor-1232	GC06	A	03/20/06 13:23
185511-012	Aroclor-1242	GC06	A	03/20/06 13:23
185511-012	Aroclor-1248	GC06	A	03/20/06 13:23
185511-012	Aroclor-1254	GC06	A	03/20/06 13:23
185511-012	Aroclor-1260	GC06	A	03/20/06 13:23
185511-012	TCMX	GC06	A	03/20/06 13:23
185511-012	Decachlorobiphenyl	GC06	A	03/20/06 13:23
185511-013	Aroclor-1016	GC06	A	03/21/06 04:34
185511-013	Aroclor-1221	GC06	A	03/21/06 04:34
185511-013	Aroclor-1232	GC06	A	03/21/06 04:34
185511-013	Aroclor-1242	GC06	A	03/21/06 04:34
185511-013	Aroclor-1248	GC06	A	03/21/06 04:34
185511-013	Aroclor-1254	GC06	A	03/21/06 04:34
185511-013	Aroclor-1260	GC06	A	03/21/06 04:34
185511-013	TCMX	GC06	A	03/21/06 04:34
185511-013	Decachlorobiphenyl	GC06	A	03/21/06 04:34
QC331819	Aroclor-1016	GC06	A	03/19/06 15:19
QC331819	Aroclor-1221	GC06	A	03/19/06 15:19
QC331819	Aroclor-1232	GC06	A	03/19/06 15:19
QC331819	Aroclor-1242	GC06	A	03/19/06 15:19
QC331819	Aroclor-1248	GC06	A	03/19/06 15:19
QC331819	Aroclor-1254	GC06	A	03/19/06 15:19
QC331819	Aroclor-1260	GC06	A	03/19/06 15:19
QC331819	TCMX	GC06	A	03/19/06 15:19
QC331819	Decachlorobiphenyl	GC06	A	03/19/06 15:19
QC331820	Aroclor-1221	GC06	A	03/19/06 15:47
QC331820	TCMX	GC06	A	03/19/06 15:47
QC331820	Decachlorobiphenyl	GC06	A	03/19/06 15:47
QC331821	Aroclor-1221	GC06	A	03/19/06 16:42
QC331821	TCMX	GC06	A	03/19/06 16:42
QC331821	Decachlorobiphenyl	GC06	A	03/19/06 16:42
QC331822	Aroclor-1221	GC06	A	03/19/06 17:10
QC331822	TCMX	GC06	A	03/19/06 17:10
QC331822	Decachlorobiphenyl	GC06	A	03/19/06 17:10

Curtis & Tompkins Laboratories Sample Preparation Summary 17-MAR-2006 13:23

Batch Number : 111385
Date Extracted: 16-MAR-2006
Extracted by : Kristine Harrison
Prep Method : 3520C

Analysis : PCB
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2719A
Spike #2 ID : S2797A
Spike #3 ID :
SOP Version : PCB_w_rv7

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185457-016		Treadwell & Rollo	Water	1050	mL	25	0.023810	1	6	.05	0		PCB	3665A	mss
185511-012		Treadwell & Rollo	Water	1010	mL	25	0.024752	1	5	.05	0		PCB	3665A	
185511-013		Treadwell & Rollo	Water	1060	mL	25	0.023585	1	5	.05	0		PCB	3665A	
185558-011		Treadwell & Rollo	Water	1040	mL	25	0.024038	1	6	.05	0		PCB	3665A	
185558-013		Treadwell & Rollo	Water	1050	mL	25	0.023810	1	6	.05	0		PCB	3665A	
185558-014		Treadwell & Rollo	Water	1050	mL	25	0.023810	1	6	.05	0		PCB	3665A	
185558-015		Treadwell & Rollo	Water	1050	mL	25	0.023810	1	6	.05	0		PCB	3665A	
185566-001		Tetra Tech EC, Inc.	Water	500	mL	10	0.020000	1	6	.025	0		PCB	3665A	limited volume
QC331819	BLANK		Water	1000	mL	25	0.025000	1		.05	0		PCB	3665A	
QC331820	LCS		Water	1000	mL	25	0.025000	1		.05	.05		PCB	3665A	
QC331821	MS	of 185457-016	Water	1050	mL	25	0.023810	1	6	.05	.05		PCB	3665A	
QC331822	MSD	of 185457-016	Water	1050	mL	25	0.023810	1	6	.05	.05		PCB	3665A	

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Prep Chemist: Kristine Harrison Reviewed By: [signature] Date: 3/17/06

Relinquished By: Dan McC Received By: Jennifer Gargano Date: 3/20/06

Curtis & Tompkins, Ltd

PCB WATER PREP LOG

LIMS Batch No: 111385
LIMS Analysis: PCB
Extracted by: KMH
Date Extracted: 3/16/06

Extraction Method:
- ☐ EPA 3510c Sep. Funnel
- ☑ EPA 3520c Continuous L/L
- ☐ Other

BK 2231
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Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Comments
185457-016AG	1050	6	2500	1.55
185511-012 R	1010	5		
13 S	1060	5		
185558-011 K	1040	6		
13 I	1050			
14 J	1050			
15 L	1050			
185566-001 BN	KMH 3/16/06 ~~1000~~ 500		DLM 3/17/06	★
MB QC331819	KMH 3/16/06 1000	NA	DLM 3/17/06	
LCS 20				
MS 21	1050	6		KMH 3/16/06 185457-016 AE
MSD 22		6		AF

BHD 3/17/06

0.05 (0.025★) mL of surrogate solution was added to all samples

0.05 mL of spike solution AR 1221 was added to all spikes

☑ Samples were continuously extracted with about 450 mL CH_2Cl_2

Extraction Start Time: 1325

Extraction End Time: 0725

☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2

Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4

Concentrated to volumes noted above after 2x exchange w/ Hexane lot#

EPA 3665A Clean-up: Vortexed w/ 10mL H_2SO_4 lot #

Centrifuged for 1min; 10mL transferred to labelled vial

Lot# / LIMS # / Time	Date/ Initials
5[illegible]A	KMH 3/16/06
S[illegible]7A	
E[illegible]014	
1325	
0725	DLM 3/17/06
NA	
E[illegible]5116532	
CP890	
JTB B24063	
✓	

KMH 3/16/06
Extraction Chemist **Date**

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Contined from Page
Continued on Page

DLM 3/17/06
Reviewed by **Date**

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8082 Water
As of 04/29/06

Analyte	Units	GC06 A	GC06 B	GC22 A	GC22 B	GC25 A	GC25 B
Aroclor-1016	ug/L	0.054	0.054	0.058	0.029	0.11	0.12
Aroclor-1221	ug/L	0.31	0.29	0.41	0.33	0.37	0.63
Aroclor-1232	ug/L	0.11	0.088	0.19	0.34	0.16	0.087
Aroclor-1242	ug/L	0.15	0.16	0.24	0.22	0.14	0.15
Aroclor-1248	ug/L	0.30	0.34	0.097	0.061	0.038	0.051
Aroclor-1254	ug/L	0.086	0.11	0.11	0.14	0.12	0.13
Aroclor-1260	ug/L	0.079	0.14	0.059	0.037	0.097	0.12

POLYAROMATIC HYDROCARBONS

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	DW031306A	Batch#:	111439
Lab ID:	185511-012	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Prepared:	03/19/06
Diln Fac:	1.000	Analyzed:	03/21/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.97	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.97	
Fluorene	ND	0.97	
Phenanthrene	ND	0.49	
Anthracene	ND	0.49	0.008
Fluoranthene	ND	0.39	0.02
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	90	65-135
1-Methylnaphthalene (F)	86	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	DW031306B	Batch#:	111439
Lab ID:	185511-013	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Prepared:	03/19/06
Diln Fac:	1.000	Analyzed:	03/21/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.96	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.96	
Fluorene	ND	0.96	
Phenanthrene	ND	0.48	
Anthracene	ND	0.48	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	95	65-135
1-Methylnaphthalene (F)	91	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332068	Batch#:	111439
Matrix:	Water	Prepared:	03/19/06
Units:	ug/L	Analyzed:	03/21/06

Analyte	Result	RL	MDL
Naphthalene	ND	1.0	
Acenaphthylene	ND	2.0	
Acenaphthene	ND	1.0	
Fluorene	ND	1.0	
Phenanthrene	ND	0.50	
Anthracene	ND	0.50	0.008
Fluoranthene	ND	0.40	0.02
Pyrene	ND	0.20	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	87	65-135
1-Methylnaphthalene (F)	84	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Matrix:	Water	Batch#:	111439
Units:	ug/L	Prepared:	03/19/06
Diln Fac:	1.000	Analyzed:	03/21/06

Type: BS Lab ID: QC332069

Analyte	Spiked	Result	%REC	Limits
Naphthalene	10.00	8.808	88	50-135
Fluorene	2.000	1.764	88	65-135
Pyrene	1.000	0.8344	83	65-135
Benzo(a)pyrene	1.000	0.8327	83	65-135

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	83	65-135
1-Methylnaphthalene (F)	79	65-135

Type: BSD Lab ID: QC332070

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Naphthalene	10.00	9.260	93	50-135	5	35
Fluorene	2.000	1.901	95	65-135	8	35
Pyrene	1.000	0.9027	90	65-135	8	35
Benzo(a)pyrene	1.000	0.9004	90	65-135	8	35

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	92	65-135
1-Methylnaphthalene (F)	87	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185511 HPLC Water: EPA 8310

Inst : HPLC04
Calnum : 295454249001
Units : ug/L

Date : 11-NOV-2005 13:27
X Axis : R

Reviewer: MCH
Inj Vol : 10 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	31500006	295454249006		11-NOV-2005 13:27	S1620
L2	31500007	295454249007		11-NOV-2005 13:58	S1619
L3	31500008	295454249008		11-NOV-2005 14:30	S1618
L4	31500009	295454249009		11-NOV-2005 15:02	S1617
L5	31500010	295454249010		11-NOV-2005 15:33	S1616
L6	31500011	295454249011		11-NOV-2005 16:05	S1615
L7	31500012	295454249012		11-NOV-2005 16:36	S1614

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Naphthalene	1	0.0130	0.0130	0.0130	0.0132	0.0131	0.0129	0.0130	LINR	-24.714	77.1181		0.0130	1.000	0.99	20	
Acenaphthylene	1	0.0092	0.0091	0.0093	0.0095	0.0094	0.0092	0.0091	LINR	-214.44	109.425		0.0093	1.000	0.99	20	
Acenaphthene	1	0.0049	0.0049	0.0051	0.0052	0.0051	0.0050	0.0050	LINR	-85.609	200.350		0.0050	1.000	0.99	20	
Fluorene	1	0.0623	0.0618	0.0631	0.0639	0.0633	0.0627	0.0629	LINR	-2.8635	15.9062		0.0629	1.000	0.99	20	
Phenanthrene	1	0.1801	0.1766	0.1803	0.1826	0.1801	0.1784	0.1795	LINR	-1.3045	5.57871		0.1797	1.000	0.99	20	
Anthracene	1	0.4031	0.4032	0.4080	0.4134	0.4084	0.4043	0.4050	LINR	-3.4533	2.47159		0.4065	1.000	0.99	20	
Fluoranthene	1	0.0405	0.0401	0.0407	0.0416	0.0411	0.0407	0.0412	LINR	4.76117	24.3260		0.0408	1.000	0.99	20	
Pyrene	1	0.0324	0.0319	0.0332	0.0334	0.0330	0.0331	0.0336	LINR	8.56100	29.7835		0.0329	1.000	0.99	20	
Benzo(a)anthracene	1	0.0846	0.0904	0.0906	0.0917	0.0910	0.0903	0.0918	LINR	6.16312	10.9120		0.0901	1.000	0.99	20	
Chrysene	1	0.1299	0.1298	0.1319	0.1351	0.1332	0.1321	0.1335	LINR	2.64524	7.49865		0.1322	1.000	0.99	20	
Benzo(b)fluoranthene	1	0.0989	0.1025	0.1054	0.1076	0.1069	0.1059	0.1068	LINR	5.37165	9.37329		0.1049	1.000	0.99	20	
Benzo(k)fluoranthene	1	0.0806	0.0758	0.0785	0.0804	0.0803	0.0803	0.0814	LINR	9.05452	12.2962		0.0796	1.000	0.99	20	
Benzo(a)pyrene	1	0.0781	0.0812	0.0842	0.0867	0.0863	0.0861	0.0870	LINR	8.12100	11.4914		0.0842	1.000	0.99	20	
Dibenz(a,h)anthracene	1	0.0174	0.0209	0.0203	0.0209	0.0211	0.0213	0.0216	LINR	28.9418	46.3202		0.0205	1.000	0.99	20	
Benzo(g,h,i)perylene	1	0.0332	0.0346	0.0347	0.0354	0.0353	0.0353	0.0357	LINR	17.3259	27.9927		0.0349	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	1	0.0843	0.0838	0.0916	0.0948	0.0947	0.0946	0.0953	LINR	8.70680	10.4860		0.0913	1.000	0.99	20	
1-Methylnaphthalene (UV)	1	0.0084	0.0085	0.0086	0.0086	0.0085	0.0084	0.0084	LINR	-262.66	119.128		0.0085	1.000	0.99	20	
Acenaphthylene	2	0.0273	0.0273	0.0279	0.0282	0.0280	0.0277	0.0279	LINR	7.54152	35.8750		0.0277	1.000	0.99	20	
1-Methylnaphthalene (UV)	2	0.0030	0.0030	0.0031	0.0031	0.0031	0.0030	0.0030	LINR	-125.29	329.273		0.0031	1.000	0.99	20	
Naphthalene	3	0.0118	0.0118	0.0118	0.0119	0.0119	0.0117	0.0116	LINR	-94.622	86.2298		0.0118	1.000	0.99	20	
Acenaphthene	3	0.0242	0.0241	0.0242	0.0246	0.0244	0.0239		LINR	-65.047	41.8154		0.0242	1.000	0.99	20	
Fluorene	3	0.1329	0.1328	0.1337	0.1349	0.1333	0.1303		LINR	-17.920	7.68242		0.1330	1.000	0.99	20	
Phenanthrene	3	0.1403	0.1414	0.1416	0.1432	0.1419	0.1386	0.1387	LINR	-8.7849	7.22392		0.1408	1.000	0.99	20	
Anthracene	3	0.4105	0.4089	0.4142	0.4203	0.4141	0.4106	0.4119	LINR	-2.5156	2.43034		0.4129	1.000	0.99	20	
Fluoranthene	3	0.0408	0.0402	0.0409	0.0415	0.0411	0.0406	0.0409	LINR	-2.6821	24.5038		0.0409	1.000	0.99	20	
Pyrene	3	0.1357	0.1319	0.1342	0.1369	0.1342	0.1312	0.1332	LINR	-2.1762	7.53143		0.1339	1.000	0.99	20	

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295454249001

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Benzo(a)anthracene	3	0.1507	0.1492	0.1525	0.1551	0.1526	0.1506	0.1519	LINR	-1.3548	6.59583		0.1518	1.000	0.99	20	
Chrysene	3	0.1830	0.1826	0.1864	0.1898	0.1872	0.1843	0.1845	LINR	-5.3078	5.42554		0.1854	1.000	0.99	20	
Benzo(b)fluoranthene	3	0.0661	0.0655	0.0671	0.0681	0.0672	0.0664	0.0670	LINR	-0.3738	14.9546		0.0668	1.000	0.99	20	
Benzo(k)fluoranthene	3	0.3904	0.3881	0.3960	0.4014	0.3974	0.3923	0.3904	LINR	-7.1975	2.56238		0.3937	1.000	0.99	20	
Benzo(a)pyrene	3	0.2124	0.2112	0.2162	0.2193	0.2168	0.2137	0.2143	LINR	-3.8765	4.67175		0.2148	1.000	0.99	20	
Dibenz(a,h)anthracene	3	0.0298	0.0299	0.0311	0.0319	0.0317	0.0316	0.0320	LINR	14.7159	31.2756		0.0311	1.000	0.99	20	
Benzo(g,h,i)perylene	3	0.0617	0.0613	0.0626	0.0641	0.0636	0.0633	0.0639	LINR	8.49542	15.6646		0.0629	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	3	0.0928	0.0930	0.0946	0.0968	0.0967	0.0963	0.0973	LINR	6.16011	10.2852		0.0953	1.000	0.99	20	
1-Methylnaphthalene (F)	3	0.0132	0.0131	0.0132	0.0133	0.0132	0.0128		LINR	-457.43	78.4104		0.0131	1.000	0.99	20	

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LINR=Linear regression

Instrument amount = a0 + response * a1 + response^2 * a2

295454249001

Method G:\HPLC4\METHODS\8310-315.M

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Calibration Table

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NEW ICAL. 14 NOV 2005

HPLC04 METHOD 8310

Calib. Data Modified : 11/14/2005 4:07:02 PM

Calculate : External Standard
Based on : Peak Area

Rel. Reference Window : 1.000 %
Abs. Reference Window : 0.200 min
Rel. Non-ref. Window : 1.000 %
Abs. Non-ref. Window : 0.250 min
Do not use Multiplier & Dilution Factor with ISTDs : not reported
Uncalibrated Peaks : Yes, identified peaks are recalibrated
Partial Calibration : No, only for identified peaks
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Signal 1: DAD1 A, Sig=254,4 Ref=480,80
Signal 2: DAD1 B, Sig=305,4 Ref=480,80
Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref Grp	Name
4.798	1	1	500.00000	6.51225	76.77836		Naphthalene
		2	1000.00000	13.02439	76.77905		
		3	2500.00000	32.45070	77.03995		
		4	5000.00000	65.81794	75.96713		
		5	1.00000e4	130.82538	76.43777		
		6	2.50000e4	323.61371	77.25260		
		7	5.00000e4	648.90906	77.05240		
4.839	3	1	500.00000	5.89779	84.77755		Naphthalene
		2	1000.00000	11.75017	85.10517		
		3	2500.00000	29.52386	84.67727		
		4	5000.00000	59.72798	83.71286		
		5	1.00000e4	118.70710	84.24096		
		6	2.50000e4	292.13416	85.57712		
		7	5.00000e4	580.05115	86.19930		
6.052	1	1	1000.00000	9.19383	108.76859		Acenaphthylene
		2	2000.00000	18.17297	110.05354		
		3	5000.00000	46.41474	107.72440		
		4	1.00000e4	94.72365	105.57026		
		5	2.00000e4	187.69478	106.55597		
		6	5.00000e4	461.84637	108.26111		
		7	1.00000e5	913.74396	109.43985		
6.053	2	1	1000.00000	27.33126	36.58814		Acenaphthylene
		2	2000.00000	54.50918	36.69107		
		3	5000.00000	139.26938	35.90165		

Method G:\HPLC4\METHODS\8310-315.M

RetTime [min]	Lvl Sig		Amount [ug/l]	Area	Amt/Area	Ref Grp	Name
		4	1.00000e4	281.69171	35.49980		
		5	2.00000e4	559.80969	35.72643		
		6	5.00000e4	1386.26819	36.06806		
		7	1.00000e5	2790.07104	35.84138		
6.831	1	1	2000.00000	16.88634	118.43892		1-Methylnaphthalene (UV)
		2	4000.00000	33.87627	118.07677		
		3	1.00000e4	85.59682	116.82676		
		4	2.00000e4	172.90190	115.67253		
		5	4.00000e4	341.59979	117.09609		
		6	1.00000e5	839.73962	119.08453		
		7	2.00000e5	1681.10107	118.96965		
6.832	2	1	2000.00000	6.07634	329.14529		1-Methylnaphthalene (UV)
		2	4000.00000	12.02570	332.62101		
		3	1.00000e4	30.92526	323.36029		
		4	2.00000e4	62.05173	322.31170		
		5	4.00000e4	122.53880	326.42721		
		6	1.00000e5	302.71973	330.33856		
		7	2.00000e5	608.23541	328.82005		
6.872	3	1	2000.00000	26.32489	75.97373		1-Methylnaphthalene (F)
		2	4000.00000	52.31355	76.46202		
		3	1.00000e4	131.50134	76.04485		
		4	2.00000e4	266.55655	75.03098		
		5	4.00000e4	526.67639	75.94796		
		6	1.00000e5	1276.22900	78.35584		
7.280	1	1	500.00000	5.56723	89.81128		2-Methylnaphthalene
		2	1000.00000	11.21599	89.15845		
		3	2500.00000	28.88600	86.54713		
		4	5000.00000	58.62328	85.29035		
		5	1.00000e4	116.21339	86.04861		
		6	2.50000e4	286.22339	87.34436		
7.335	3	1	500.00000	7.99274	62.55677		2-Methylnaphthalene
		2	1000.00000	15.91236	62.84423		
		3	2500.00000	40.03383	62.44718		
		4	5000.00000	81.15388	61.61135		
		5	1.00000e4	161.03452	62.09849		
		6	2.50000e4	395.10352	63.27456		
7.672	1	1	500.00000	2.42577	206.12028		Acenaphthene
		2	1000.00000	4.86201	205.67637		
		3	2500.00000	12.71169	196.66929		
		4	5000.00000	25.83322	193.54924		
		5	1.00000e4	51.07816	195.77838		
		6	2.50000e4	125.66128	198.94752		
		7	5.00000e4	249.59686	200.32303		
7.712	3	1	500.00000	12.09695	41.33272		Acenaphthene
		2	1000.00000	24.11610	41.46607		
		3	2500.00000	60.52220	41.30716		
		4	5000.00000	122.93717	40.67118		
		5	1.00000e4	243.99982	40.98364		
		6	2.50000e4	597.90503	41.81266		
8.199	1	1	100.00000	6.23287	16.04397		Fluorene
		2	200.00000	12.36933	16.16903		
		3	500.00000	31.54358	15.85108		
		4	1000.00000	63.90393	15.64849		
		5	2000.00000	126.50168	15.81007		
		6	5000.00000	313.40030	15.95404		
		7	1.00000e4	629.23938	15.89220		
8.239	3	1	100.00000	13.29075	7.52403		Fluorene
		2	200.00000	26.56478	7.52876		
		3	500.00000	66.85545	7.47882		
		4	1000.00000	134.87556	7.41424		
		5	2000.00000	266.58530	7.50229		
		6	5000.00000	651.29639	7.67700		
9.318	1	1	50.00000	9.00343	5.55344		Phenanthrene

Method G:\HPLC4\METHODS\8310-315.M

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	100.00000	17.66359	5.66136			
		3	250.00000	45.08168	5.54549			
		4	500.00000	91.29965	5.47647			
		5	1000.00000	180.14212	5.55117			
		6	2500.00000	446.01529	5.60519			
		7	5000.00000	897.40991	5.57159			
9.358	3	1	50.00000	7.01743	7.12511			Phenanthrene
		2	100.00000	14.14166	7.07130			
		3	250.00000	35.38944	7.06425			
		4	500.00000	71.59289	6.98393			
		5	1000.00000	141.86461	7.04897			
		6	2500.00000	346.48584	7.21530			
		7	5000.00000	693.25409	7.21236			
10.346	1	1	50.00000	20.15521	2.48075			Anthracene
		2	100.00000	40.32065	2.48012			
		3	250.00000	101.99684	2.45106			
		4	500.00000	206.70654	2.41889			
		5	1000.00000	408.35837	2.44883			
		6	2500.00000	1010.66217	2.47363			
		7	5000.00000	2024.80078	2.46938			
10.386	3	1	50.00000	20.52480	2.43608			Anthracene
		2	100.00000	40.89180	2.44548			
		3	250.00000	103.54391	2.41443			
		4	500.00000	210.14381	2.37932			
		5	1000.00000	414.05106	2.41516			
		6	2500.00000	1026.49353	2.43548			
		7	5000.00000	2059.37134	2.42793			
11.504	1	1	100.00000	4.05160	24.68162			Fluoranthene
		2	200.00000	8.01856	24.94213			
		3	500.00000	20.35011	24.56989			
		4	1000.00000	41.57235	24.05445			
		5	2000.00000	82.13621	24.34980			
		6	5000.00000	203.73349	24.54187			
		7	1.00000e4	411.60339	24.29523			
11.543	3	1	100.00000	4.08160	24.50019			Fluoranthene
		2	200.00000	8.04222	24.86875			
		3	500.00000	20.46036	24.43750			
		4	1000.00000	41.54289	24.07151			
		5	2000.00000	82.12543	24.35299			
		6	5000.00000	203.17122	24.60978			
		7	1.00000e4	408.57028	24.47559			
12.274	1	1	50.00000	1.62059	30.85291			Pyrene
		2	100.00000	3.19098	31.33834			
		3	250.00000	8.29422	30.14147			
		4	500.00000	16.68730	29.96290			
		5	1000.00000	32.97289	30.32795			
		6	2500.00000	82.77225	30.20336			
		7	5000.00000	168.06082	29.75113			
12.313	3	1	50.00000	6.78313	7.37123			Pyrene
		2	100.00000	13.19262	7.58000			
		3	250.00000	33.54156	7.45344			
		4	500.00000	68.45862	7.30368			
		5	1000.00000	134.23868	7.44942			
		6	2500.00000	328.05682	7.62063			
		7	5000.00000	665.85370	7.50916			
15.125	1	1	50.00000	4.23180	11.81530			Benzo(a)anthracene
		2	100.00000	9.04188	11.05964			
		3	250.00000	22.65013	11.03746			
		4	500.00000	45.84408	10.90653			
		5	1000.00000	91.03773	10.98446			
		6	2500.00000	225.67519	11.07787			
		7	5000.00000	459.00107	10.89322			
15.164	3	1	50.00000	7.53349	6.63703			Benzo(a)anthracene

Method G:\HPLC4\METHODS\8310-315.M

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	100.00000	14.92142	6.70177			
		3	250.00000	38.11910	6.55839			
		4	500.00000	77.56648	6.44608			
		5	1000.00000	152.59743	6.55319			
		6	2500.00000	376.53439	6.63950			
		7	5000.00000	759.30841	6.58494			
15.624	1	1	50.00000	6.49550	7.69764			Chrysene
		2	100.00000	12.97757	7.70560			
		3	250.00000	32.97633	7.58119			
		4	500.00000	67.56745	7.40001			
		5	1000.00000	133.20935	7.50698			
		6	2500.00000	330.15082	7.57230			
		7	5000.00000	667.71228	7.48826			
15.664	3	1	50.00000	9.15220	5.46317			Chrysene
		2	100.00000	18.25678	5.47742			
		3	250.00000	46.59403	5.36549			
		4	500.00000	94.90897	5.26821			
		5	1000.00000	187.15659	5.34312			
		6	2500.00000	460.78613	5.42551			
		7	5000.00000	922.53937	5.41982			
17.842	1	1	100.00000	9.89154	10.10965			Benzo(b)fluoranthene
		2	200.00000	20.49215	9.75983			
		3	500.00000	52.71000	9.48587			
		4	1000.00000	107.62183	9.29180			
		5	2000.00000	213.82385	9.35349			
		6	5000.00000	529.55377	9.44191			
		7	1.00000e4	1067.59534	9.36684			
17.883	3	1	100.00000	6.61389	15.11970			Benzo(b)fluoranthene
		2	200.00000	13.10739	15.25857			
		3	500.00000	33.56808	14.89510			
		4	1000.00000	68.05548	14.69389			
		5	2000.00000	134.33257	14.88842			
		6	5000.00000	331.92670	15.06357			
		7	1.00000e4	669.70776	14.93189			
18.796	1	1	50.00000	4.03241	12.39953			Benzo(k)fluoranthene
		2	100.00000	7.57503	13.20127			
		3	250.00000	19.62153	12.74110			
		4	500.00000	40.20050	12.43765			
		5	1000.00000	80.29658	12.45383			
		6	2500.00000	200.76387	12.45244			
		7	5000.00000	406.82126	12.29041			
18.837	3	1	50.00000	19.52037	2.56143			Benzo(k)fluoranthene
		2	100.00000	38.80871	2.57674			
		3	250.00000	99.01035	2.52499			
		4	500.00000	200.72287	2.49100			
		5	1000.00000	397.35812	2.51662			
		6	2500.00000	980.66785	2.54928			
		7	5000.00000	1952.04028	2.56142			
19.734	1	1	50.00000	3.90437	12.80616			Benzo(a)pyrene
		2	100.00000	8.12252	12.31145			
		3	250.00000	21.05889	11.87147			
		4	500.00000	43.33799	11.53722			
		5	1000.00000	86.29072	11.58873			
		6	2500.00000	215.14328	11.62016			
		7	5000.00000	435.20081	11.48895			
19.774	3	1	50.00000	10.62241	4.70703			Benzo(a)pyrene
		2	100.00000	21.12371	4.73402			
		3	250.00000	54.04917	4.62542			
		4	500.00000	109.65622	4.55970			
		5	1000.00000	216.76112	4.61337			
		6	2500.00000	534.25336	4.67943			
		7	5000.00000	1071.43713	4.66663			
21.335	1	1	100.00000	1.74457	57.32080			Dibenz(a,h)anthracene

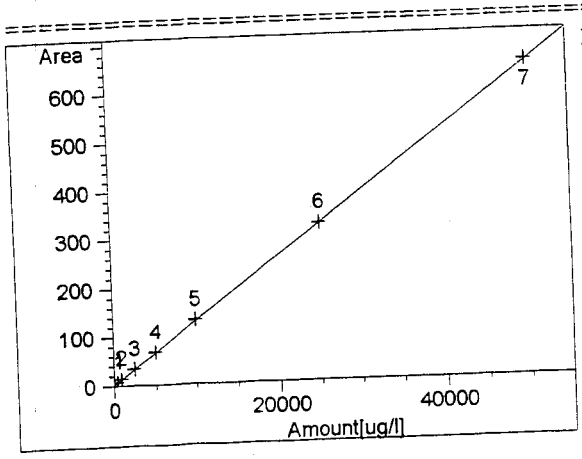
Method G:\HPLC4\METHODS\8310-315.M

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	200.00000	4.18672	47.77004			
		3	500.00000	10.15091	49.25669			
		4	1000.00000	20.86957	47.91665			
		5	2000.00000	42.28377	47.29947			
		6	5000.00000	106.57118	46.91700			
		7	1.00000e4	215.69028	46.36278			
21.376	3	1	100.00000	2.98045	33.55199			Dibenz(a,h)anthracene
		2	200.00000	5.97678	33.46283			
		3	500.00000	15.56407	32.12527			
		4	1000.00000	31.90387	31.34416			
		5	2000.00000	63.43048	31.53058			
		6	5000.00000	158.05646	31.63427			
		7	1.00000e4	319.90201	31.25957			
22.099	1	1	100.00000	3.32142	30.10762			Benzo(g,h,i)perylene
		2	200.00000	6.91262	28.93260			
		3	500.00000	17.35672	28.80728			
		4	1000.00000	35.38666	28.25924			
		5	2000.00000	70.51058	28.36454			
		6	5000.00000	176.29678	28.36127			
		7	1.00000e4	357.48672	27.97307			
22.140	3	1	100.00000	6.17302	16.19953			Benzo(g,h,i)perylene
		2	200.00000	12.25580	16.31880			
		3	500.00000	31.30061	15.97413			
		4	1000.00000	64.07645	15.60636			
		5	2000.00000	127.25459	15.71653			
		6	5000.00000	316.47900	15.79884			
		7	1.00000e4	638.82190	15.65382			
22.620	1	1	50.00000	4.21460	11.86352			Indeno(1,2,3-cd)pyrene
		2	100.00000	8.38093	11.93185			
		3	250.00000	22.88771	10.92289			
		4	500.00000	47.41936	10.54422			
		5	1000.00000	94.73141	10.55616			
		6	2500.00000	236.57013	10.56769			
		7	5000.00000	476.41440	10.49506			
22.661	3	1	50.00000	4.64120	10.77307			Indeno(1,2,3-cd)pyrene
		2	100.00000	9.29544	10.75796			
		3	250.00000	23.65410	10.56899			
		4	500.00000	48.39191	10.33231			
		5	1000.00000	96.65224	10.34637			
		6	2500.00000	240.76752	10.38346			
		7	5000.00000	486.34088	10.28085			

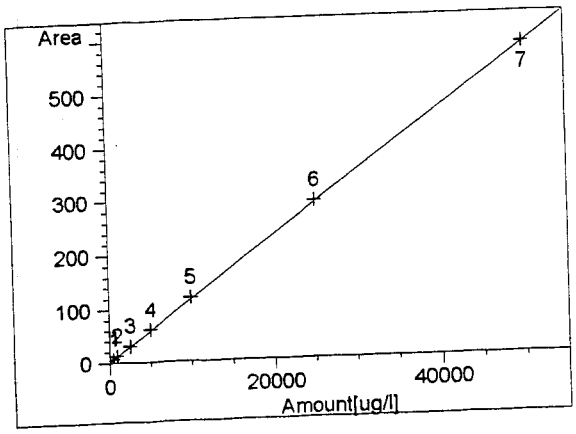
Peak Sum Table

No Entries in table

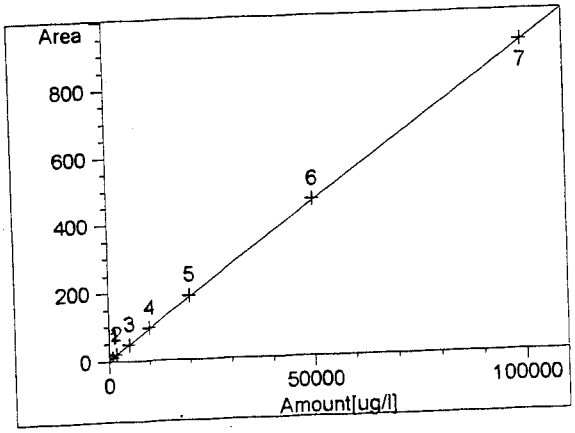
Calibration Curves



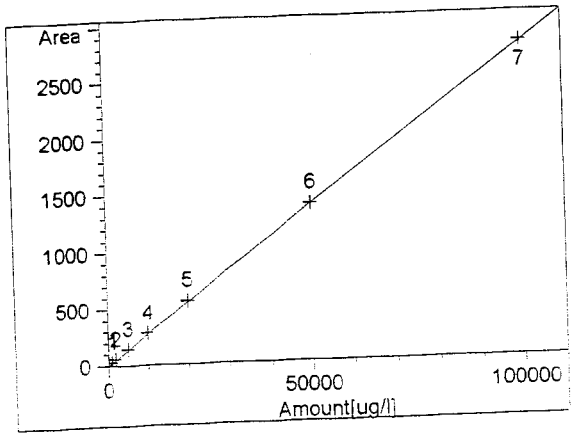
Naphthalene at exp. RT: 4.798
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.66440
Formula: y = mx + b
m: 1.29671e-2
b: 3.20474e-1
x: Amount[ug/l]
y: Area



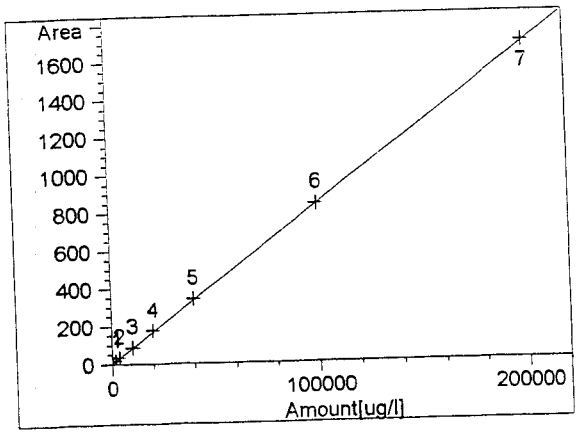
Naphthalene at exp. RT: 4.839
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.21267
Formula: y = mx + b
m: 1.15969e-2
b: 1.09732
x: Amount[ug/l]
y: Area



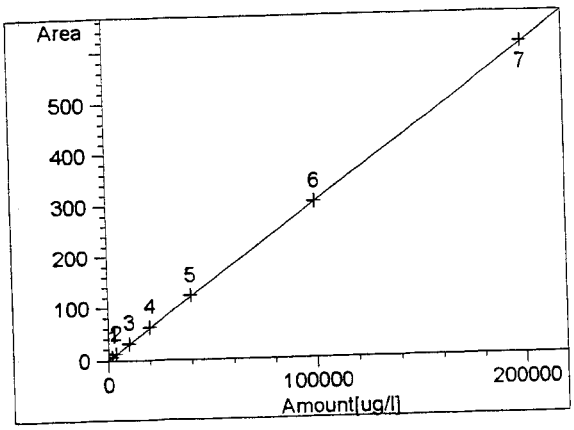
Acenaphthylene at exp. RT: 6.052
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 2.57482
Formula: y = mx + b
m: 9.13868e-3
b: 1.95971
x: Amount[ug/l]
y: Area



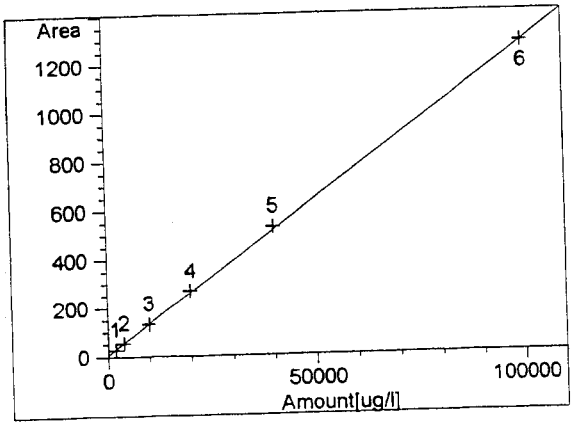
Acenaphthylene at exp. RT: 6.053
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 3.95166
Formula: y = mx + b
m: 2.78746e-2
b: -2.10217e-1
x: Amount[ug/l]
y: Area



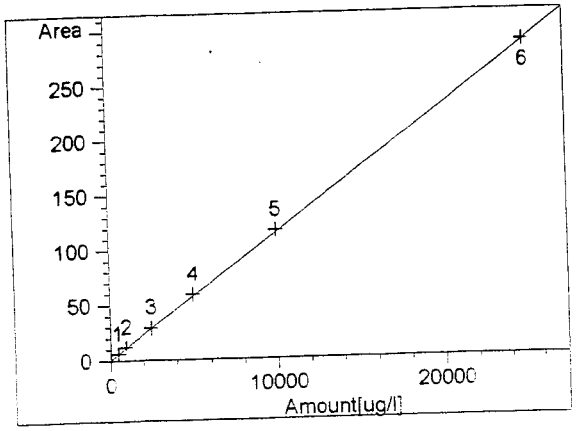
1-Methylnaphthalene (UV) at exp. RT: 6.831
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 2.56891
Formula: y = mx + b
m: 8.39433e-3
b: 2.20489
x: Amount[ug/l]
y: Area



1-Methylnaphthalene (UV) at exp. RT: 6.832
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.87319
Formula: y = mx + b
m: 3.03699e-3
b: 3.80514e-1
x: Amount[ug/l]
y: Area

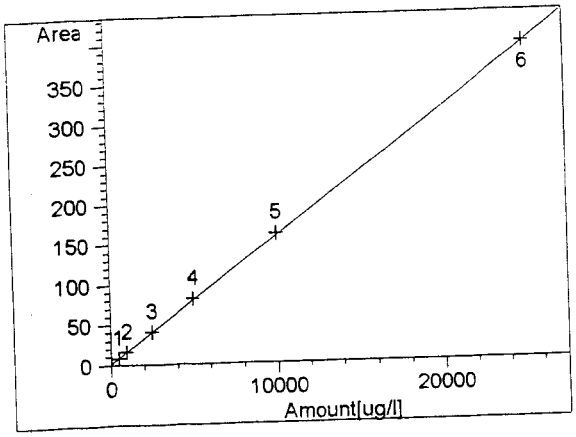


1-Methylnaphthalene (F) at exp. RT: 6.872
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99990
Residual Std. Dev.: 7.42050
Formula: y = mx + b
m: 1.27534e-2
b: 5.83375
x: Amount[ug/l]
y: Area

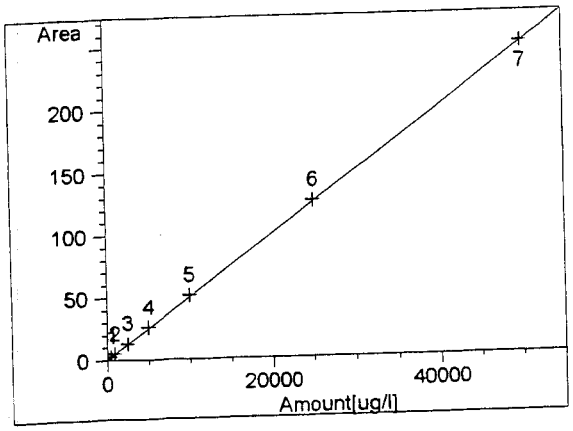


2-Methylnaphthalene at exp. RT: 7.280
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 0.93927
Formula: y = mx + b
m: 1.14550e-2
b: 4.51222e-1
x: Amount[ug/l]
y: Area

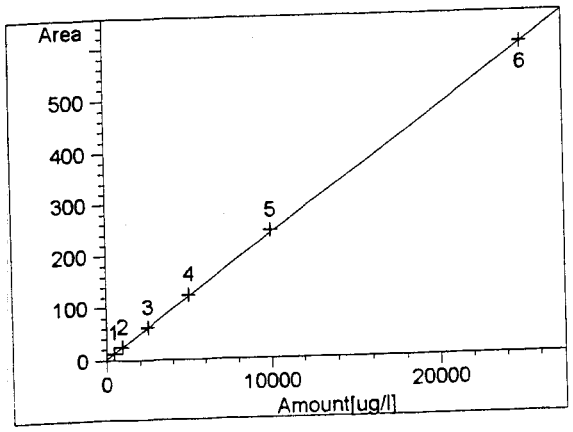
Method G:\HPLC4\METHODS\8310-315.M



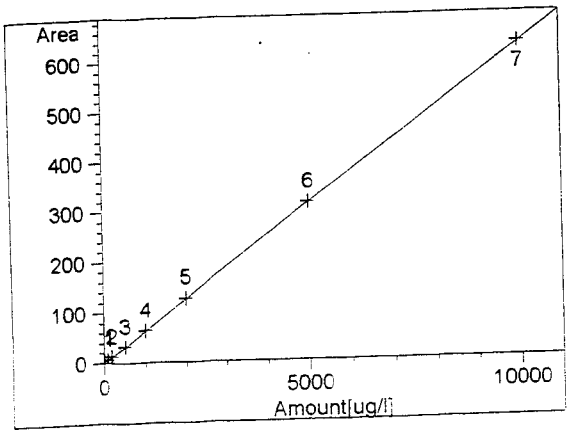
2-Methylnaphthalene at exp. RT: 7.335
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 1.42306
Formula: y = mx + b
m: 1.58022e-2
b: 9.88789e-1
x: Amount[ug/l]
y: Area



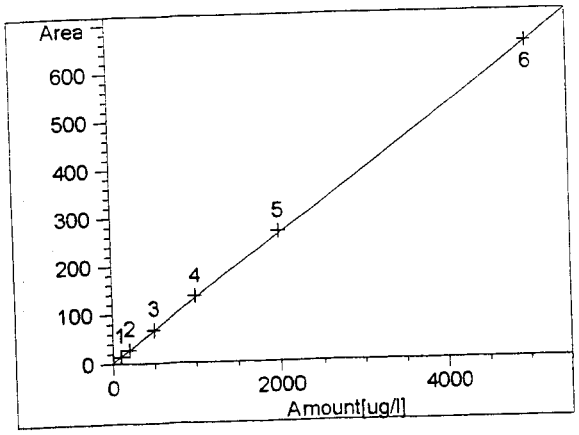
Acenaphthene at exp. RT: 7.672
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.58330
Formula: y = mx + b
m: 4.99125e-3
b: 4.27298e-1
x: Amount[ug/l]
y: Area



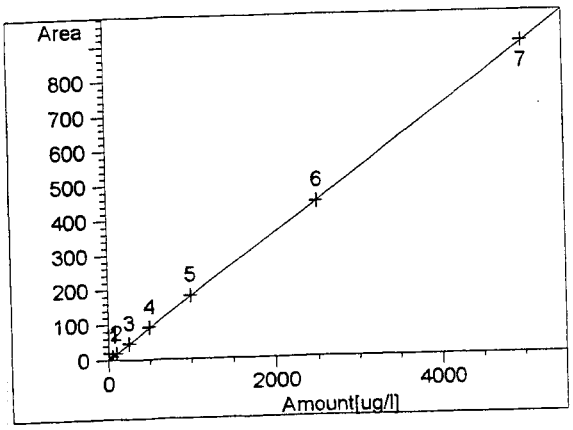
Acenaphthene at exp. RT: 7.712
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 2.28893
Formula: y = mx + b
m: 2.39146e-2
b: 1.55557
x: Amount[ug/l]
y: Area



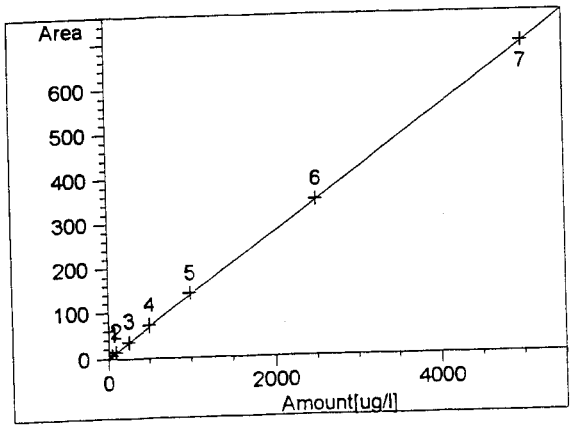
Fluorene at exp. RT: 8.199
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.73220
Formula: y = mx + b
m: 6.28687e-2
b: 1.80023e-1
x: Amount[ug/l]
y: Area



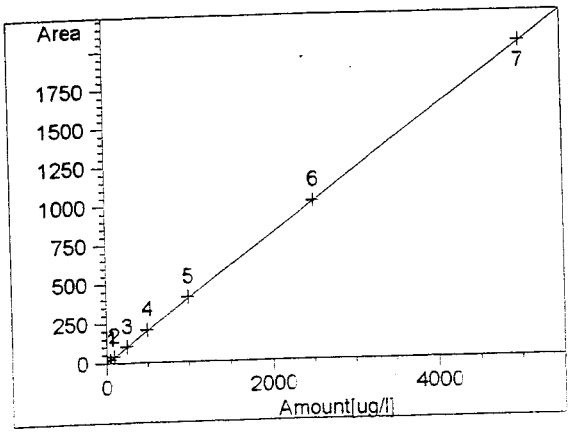
Fluorene at exp. RT: 8.239
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99995
Residual Std. Dev.: 2.84162
Formula: y = mx + b
m: 1.30167e-1
b: 2.33256
x: Amount[ug/l]
y: Area



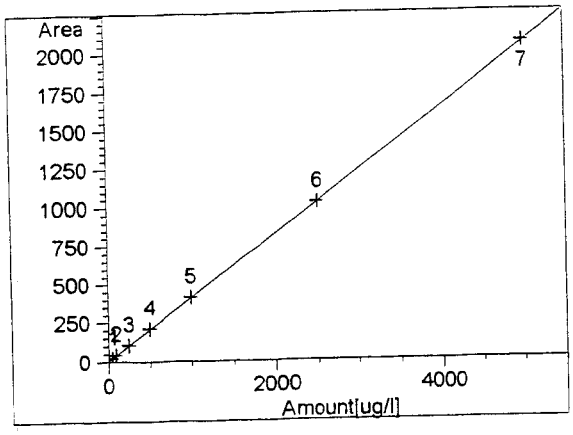
Phenanthrene at exp. RT: 9.318
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 1.35222
Formula: y = mx + b
m: 1.79253e-1
b: 2.33836e-1
x: Amount[ug/l]
y: Area



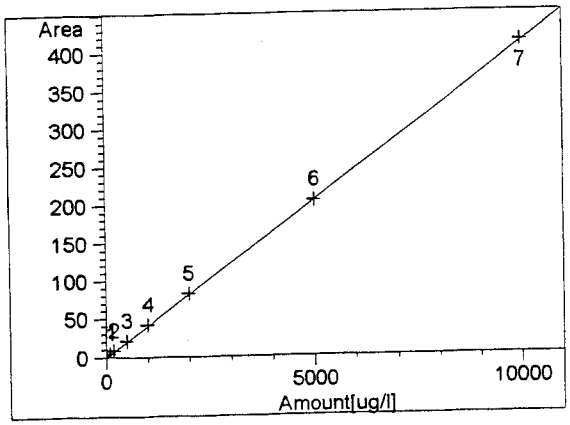
Phenanthrene at exp. RT: 9.358
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.35775
Formula: y = mx + b
m: 1.38429e-1
b: 1.21609
x: Amount[ug/l]
y: Area



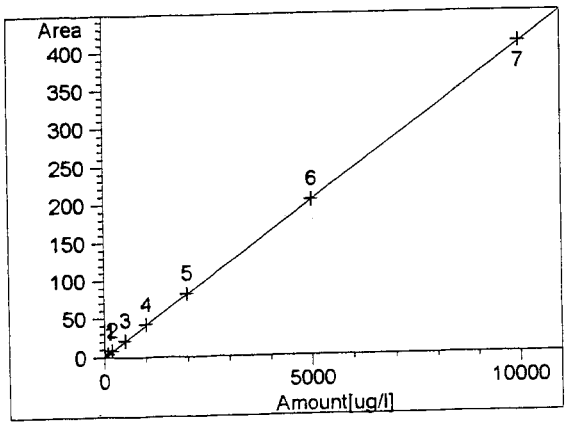
Anthracene at exp. RT: 10.346
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 2.21901
Formula: y = mx + b
m: 4.04598e-1
b: 1.39720
x: Amount[ug/l]
y: Area



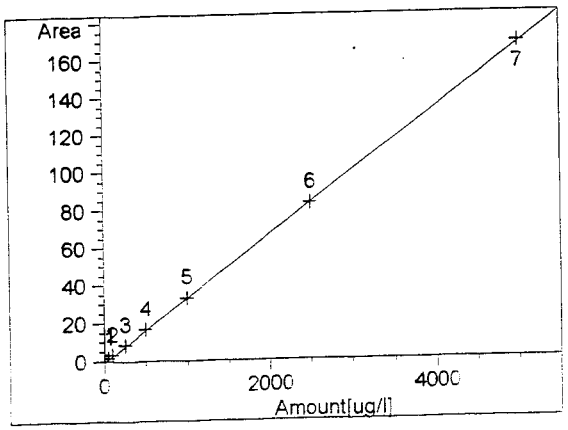
Anthracene at exp. RT: 10.386
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 2.36890
Formula: y = mx + b
m: 4.11465e-1
b: 1.03508
x: Amount[ug/l]
y: Area



Fluoranthene at exp. RT: 11.504
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.84613
Formula: y = mx + b
m: 4.11083e-2
b: -1.95725e-1
x: Amount[ug/l]
y: Area

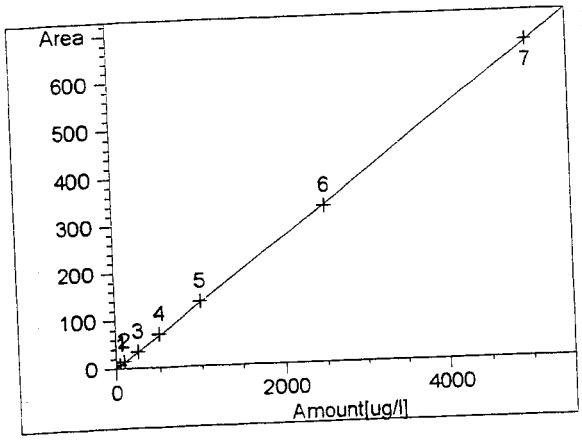


Fluoranthene at exp. RT: 11.543
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.58645
Formula: y = mx + b
m: 4.08100e-2
b: 1.09457e-1
x: Amount[ug/l]
y: Area

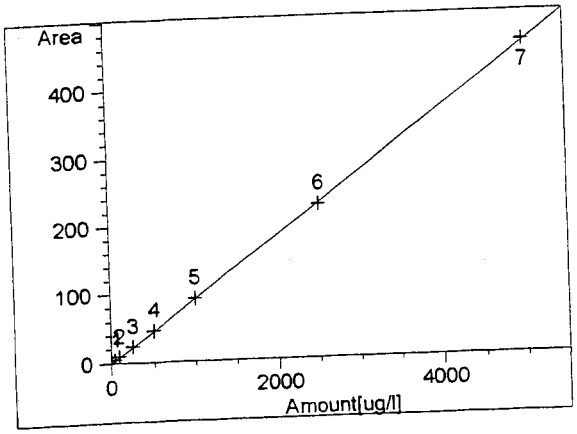


Pyrene at exp. RT: 12.274
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 0.49621
Formula: y = mx + b
m: 3.35757e-2
b: -2.87441e-1
x: Amount[ug/l]
y: Area

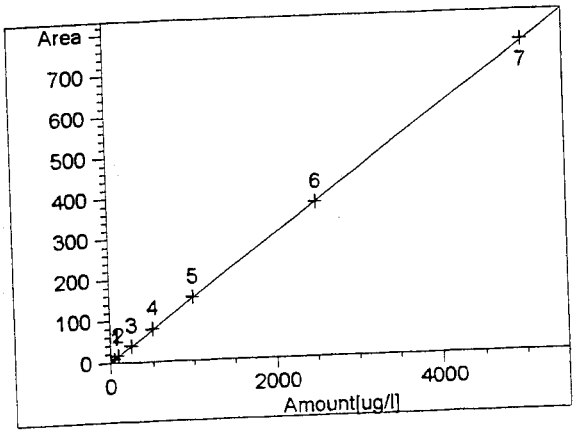
Method G:\HPLC4\METHODS\8310-315.M



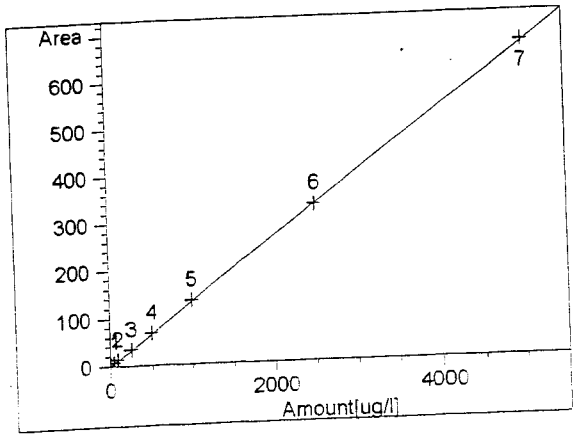
Pyrene at exp. RT: 12.313
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 2.23433
Formula: y = mx + b
m: 1.32777e-1
b: 2.88948e-1
x: Amount[ug/l]
y: Area



Benzo(a)anthracene at exp. RT: 15.125
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 1.46481
Formula: y = mx + b
m: 9.16421e-2
b: -5.64799e-1
x: Amount[ug/l]
y: Area

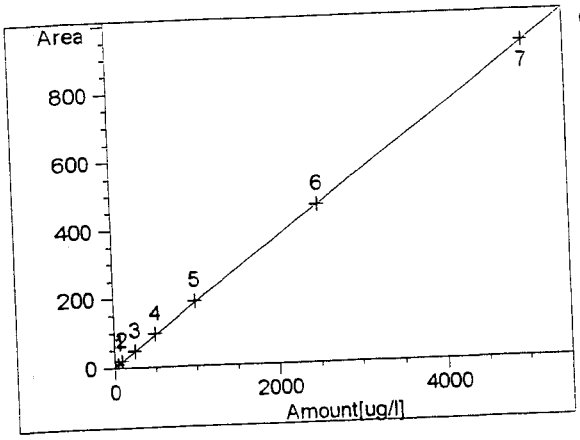


Benzo(a)anthracene at exp. RT: 15.164
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.52788
Formula: y = mx + b
m: 1.51611e-1
b: 2.05410e-1
x: Amount[ug/l]
y: Area

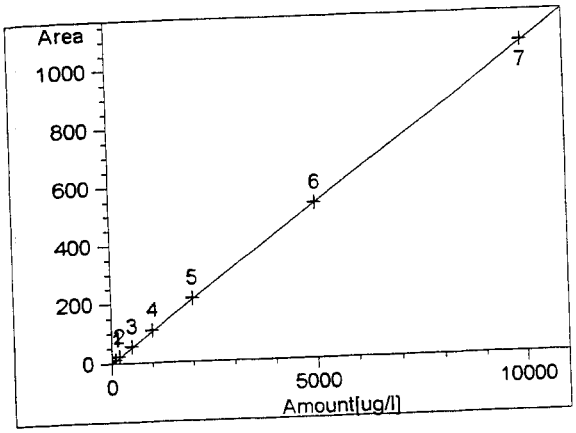


Chrysene at exp. RT: 15.624
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 1.52322
Formula: y = mx + b
m: 1.33357e-1
b: -3.52762e-1
x: Amount[ug/l]
y: Area

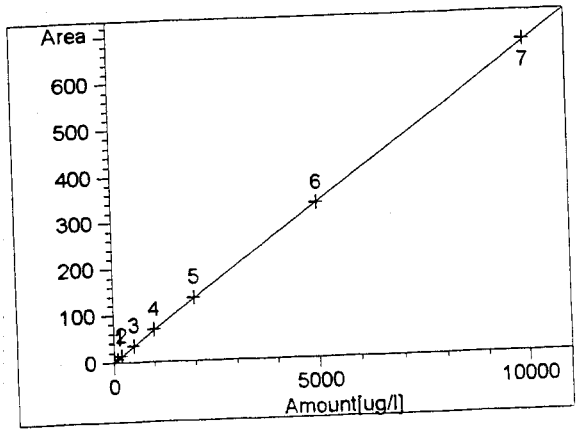
Method G:\HPLC4\METHODS\8310-315.M



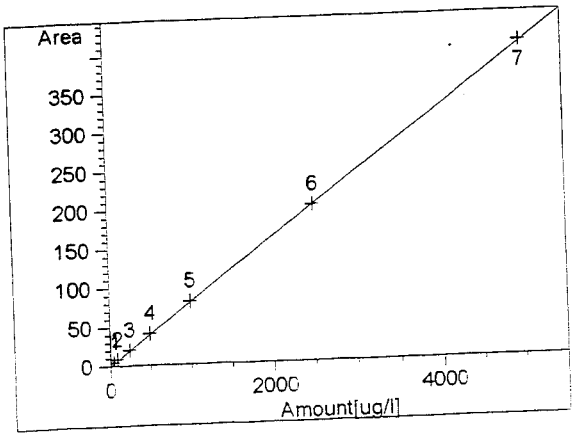
Chrysene at exp. RT: 15.664
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.42864
Formula: y = mx + b
m: 1.84313e-1
b: 9.78301e-1
x: Amount[ug/l]
y: Area



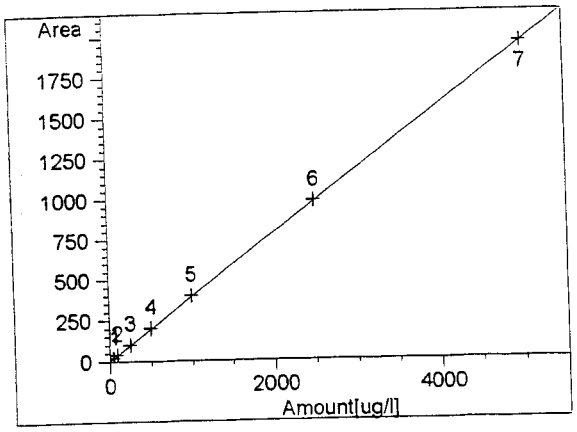
Benzo(b)fluoranthene at exp. RT: 17.842
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 1.79272
Formula: y = mx + b
m: 1.06686e-1
b: -5.73080e-1
x: Amount[ug/l]
y: Area



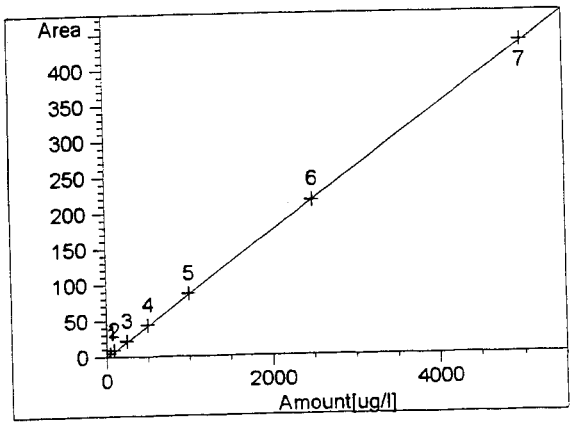
Benzo(b)fluoranthene at exp. RT: 17.883
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.32175
Formula: y = mx + b
m: 6.68690e-2
b: 2.49898e-2
x: Amount[ug/l]
y: Area



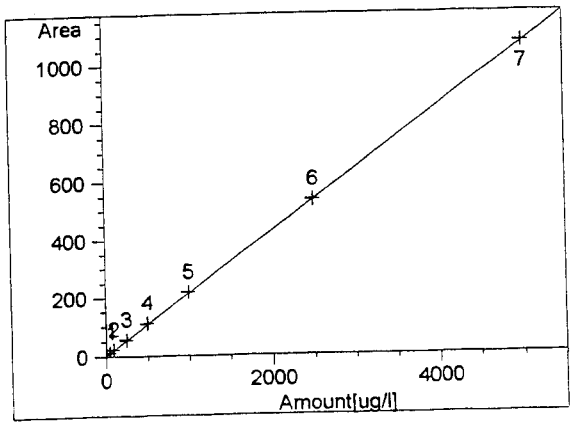
Benzo(k)fluoranthene at exp. RT: 18.796
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.98396
Formula: y = mx + b
m: 8.13261e-2
b: -7.36369e-1
x: Amount[ug/l]
y: Area



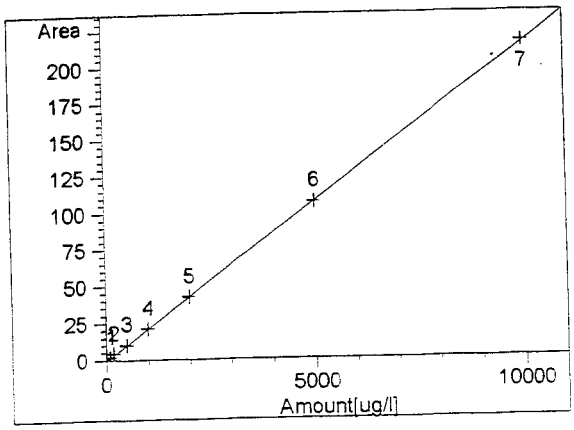
Benzo(k)fluoranthene at exp. RT: 18.837
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 3.29157
Formula: y = mx + b
m: 3.90262e-1
b: 2.80891
x: Amount[ug/l]
y: Area



Benzo(a)pyrene at exp. RT: 19.734
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.88457
Formula: y = mx + b
m: 8.70219e-2
b: -7.06704e-1
x: Amount[ug/l]
y: Area

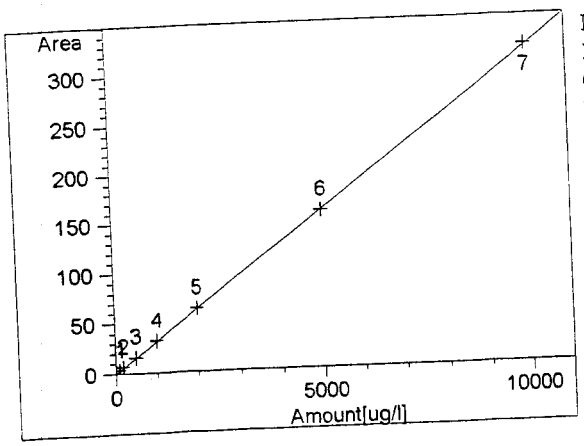


Benzo(a)pyrene at exp. RT: 19.774
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.54630
Formula: y = mx + b
m: 2.14053e-1
b: 8.29784e-1
x: Amount[ug/l]
y: Area

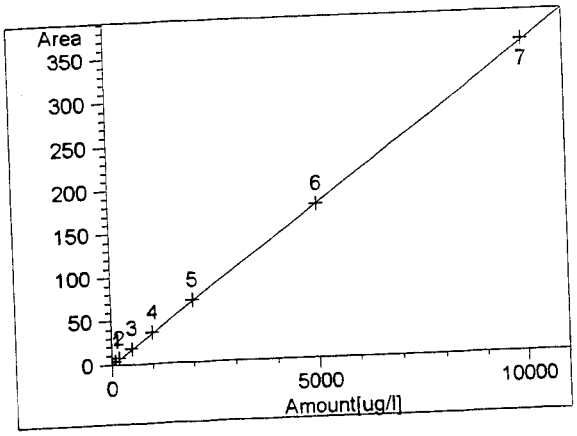


Dibenz(a,h)anthracene at exp. RT: 21.335
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.47152
Formula: y = mx + b
m: 2.15889e-2
b: -6.24820e-1
x: Amount[ug/l]
y: Area

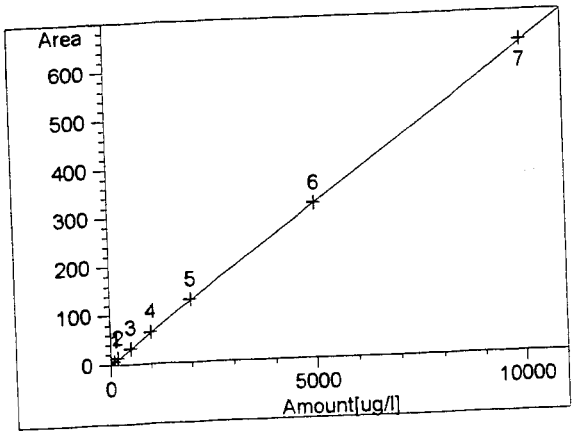
Method G:\HPLC4\METHODS\8310-315.M



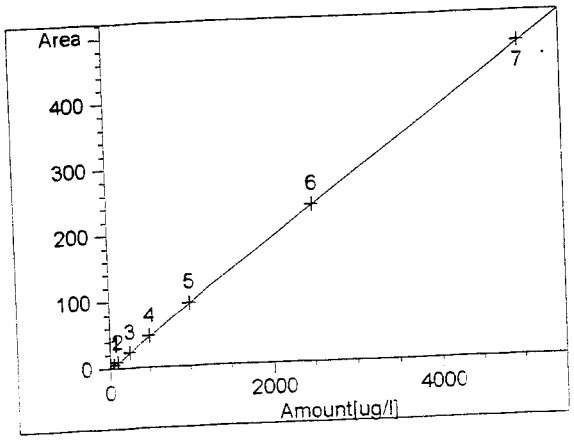
Dibenz(a,h)anthracene at exp. RT: 21.376
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.69795
Formula: y = mx + b
m: 3.19738e-2
b: -4.70523e-1
x: Amount[ug/l]
y: Area



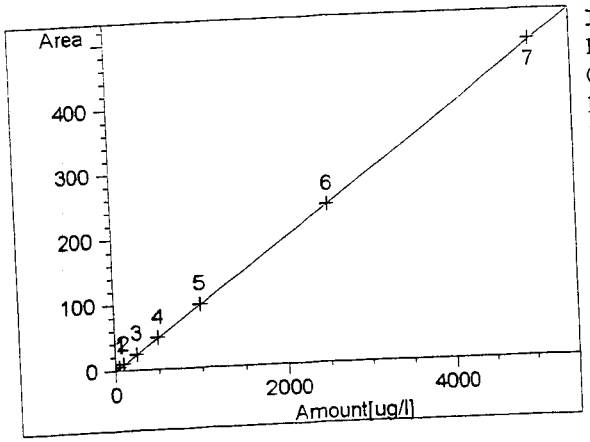
Benzo(g,h,i)perylene at exp. RT: 22.099
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.90912
Formula: y = mx + b
m: 3.57236e-2
b: -6.18946e-1
x: Amount[ug/l]
y: Area



Benzo(g,h,i)perylene at exp. RT: 22.140
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.13249
Formula: y = mx + b
m: 6.38382e-2
b: -5.42335e-1
x: Amount[ug/l]
y: Area



Indeno(1,2,3-cd)pyrene at exp. RT: 22.620
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.59301
Formula: y = mx + b
m: 9.53650e-2
b: -8.30323e-1
x: Amount[ug/l]
y: Area



Indeno(1,2,3-cd)pyrene at exp. RT: 22.661
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.87865
Formula: y = mx + b
m: 9.72272e-2
b: -5.98930e-1
x: Amount[ug/l]
y: Area

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CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185511 HPLC Water
EPA 8310

Inst : HPLC04
Calnum : 295454249001 Cal Date: 11-NOV-2005

ICV 295454249015 (31500015 11-NOV-2005) stds: S1859

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1	5000	5429	ug/L	9	15	
Acenaphthylene	1	10000	11450	ug/L	14	15	
Acenaphthene	1	5000	5731	ug/L	15	15	
Fluorene	1	1000	1083	ug/L	8	15	
Phenanthrene	1	500.0	527.1	ug/L	5	15	
Anthracene	1	500.0	541.6	ug/L	8	15	
Fluoranthene	1	1000	1095	ug/L	9	15	
Pyrene	1	500.0	544.7	ug/L	9	15	
Benzo(a)anthracene	1	500.0	539.7	ug/L	8	15	
Chrysene	1	500.0	541.3	ug/L	8	15	
Benzo(b)fluoranthene	1	1000	1079	ug/L	8	15	
Benzo(k)fluoranthene	1	500.0	541.4	ug/L	8	15	
Benzo(a)pyrene	1	500.0	528.7	ug/L	6	15	
Dibenz(a,h)anthracene	1	1000	1083	ug/L	8	15	
Benzo(g,h,i)perylene	1	1000	1068	ug/L	7	15	
Indeno(1,2,3-cd)pyrene	1	500.0	543.1	ug/L	9	15	
Acenaphthylene	2	10000	10910	ug/L	9	15	
Naphthalene	3	5000	5415	ug/L	8	15	
Acenaphthene	3	5000	5652	ug/L	13	15	
Fluorene	3	1000	1080	ug/L	8	15	
Phenanthrene	3	500.0	519.8	ug/L	4	15	
Anthracene	3	500.0	542.4	ug/L	8	15	
Fluoranthene	3	1000	1101	ug/L	10	15	
Pyrene	3	500.0	543.9	ug/L	9	15	
Benzo(a)anthracene	3	500.0	536.6	ug/L	7	15	
Chrysene	3	500.0	537.3	ug/L	7	15	
Benzo(b)fluoranthene	3	1000	1079	ug/L	8	15	
Benzo(k)fluoranthene	3	500.0	544.4	ug/L	9	15	
Benzo(a)pyrene	3	500.0	526.8	ug/L	5	15	
Dibenz(a,h)anthracene	3	1000	1078	ug/L	8	15	
Benzo(g,h,i)perylene	3	1000	1049	ug/L	5	15	
Indeno(1,2,3-cd)pyrene	3	500.0	542.2	ug/L	8	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185511 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: L IDF : 1.0
Seqnum : 296115859002 File : 08000002 Time : 21-MAR-2006 11:30
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2256

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0143	2500	2731	ug/L	9	15	
Acenaphthylene	1	0.0093	0.0097	5000	5073	ug/L	1	15	
Acenaphthene	1	0.0050	0.0055	2500	2658	ug/L	6	15	
Fluorene	1	0.0629	0.0658	500.0	520.2	ug/L	4	15	
Phenanthrene	1	0.1797	0.1885	250.0	261.6	ug/L	5	15	
Anthracene	1	0.4065	0.4174	250.0	254.4	ug/L	2	15	
Fluoranthene	1	0.0408	0.0423	500.0	518.9	ug/L	4	15	
Pyrene	1	0.0329	0.0330	250.0	254.5	ug/L	2	15	
Benzo(a)anthracene	1	0.0901	0.0942	250.0	263.2	ug/L	5	15	
Chrysene	1	0.1322	0.1382	250.0	261.8	ug/L	5	15	
Benzo(b)fluoranthene	1	0.1049	0.1109	500.0	525.0	ug/L	5	15	
Benzo(k)fluoranthene	1	0.0796	0.0836	250.0	266.0	ug/L	6	15	
Benzo(a)pyrene	1	0.0842	0.0895	250.0	265.4	ug/L	6	15	
Dibenz(a,h)anthracene	1	0.0205	0.0212	500.0	520.8	ug/L	4	15	
Benzo(g,h,i)perylene	1	0.0349	0.0354	500.0	512.9	ug/L	3	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.0996	250.0	269.9	ug/L	8	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0083	50000	49380	ug/L	-1	15	
Acenaphthylene	2	0.0277	0.0295	5000	5300	ug/L	6	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	48700	ug/L	-3	15	
Naphthalene	3	0.0118	0.0120	2500	2482	ug/L	-1	15	
Acenaphthene	3	0.0242	0.0245	2500	2492	ug/L	0	15	
Fluorene	3	0.1330	0.1352	500.0	501.5	ug/L	0	15	
Phenanthrene	3	0.1408	0.1435	250.0	250.3	ug/L	0	15	
Anthracene	3	0.4129	0.4135	250.0	248.7	ug/L	-1	15	
Fluoranthene	3	0.0409	0.0407	500.0	496.6	ug/L	-1	15	
Pyrene	3	0.1339	0.1317	250.0	245.7	ug/L	-2	15	
Benzo(a)anthracene	3	0.1518	0.1534	250.0	251.6	ug/L	1	15	
Chrysene	3	0.1854	0.1906	250.0	253.2	ug/L	1	15	
Benzo(b)fluoranthene	3	0.0668	0.0672	500.0	501.8	ug/L	0	15	
Benzo(k)fluoranthene	3	0.3937	0.4049	250.0	252.2	ug/L	1	15	
Benzo(a)pyrene	3	0.2148	0.2169	250.0	249.4	ug/L	0	15	
Dibenz(a,h)anthracene	3	0.0311	0.0314	500.0	505.4	ug/L	1	15	
Benzo(g,h,i)perylene	3	0.0629	0.0599	500.0	477.8	ug/L	-4	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.0944	250.0	248.9	ug/L	0	15	
1-Methylnaphthalene (F)	3	0.0131	0.0122	50000	47280	ug/L	-5	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185511 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: M IDF : 1.0
Seqnum : 296115859016 File : 08000016 Time : 21-MAR-2006 18:53
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2255

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0137	5000	5268	ug/L	5	15	
Acenaphthylene	1	0.0093	0.0097	10000	10380	ug/L	4	15	
Acenaphthene	1	0.0050	0.0053	5000	5217	ug/L	4	15	
Fluorene	1	0.0629	0.0654	1000	1037	ug/L	4	15	
Phenanthrene	1	0.1797	0.1864	500.0	518.7	ug/L	4	15	
Anthracene	1	0.4065	0.4069	500.0	499.4	ug/L	0	15	
Fluoranthene	1	0.0408	0.0417	1000	1018	ug/L	2	15	
Pyrene	1	0.0329	0.0324	500.0	490.6	ug/L	-2	15	
Benzo(a)anthracene	1	0.0901	0.0934	500.0	515.6	ug/L	3	15	
Chrysene	1	0.1322	0.1406	500.0	529.7	ug/L	6	15	
Benzo(b)fluoranthene	1	0.1049	0.1105	1000	1041	ug/L	4	15	
Benzo(k)fluoranthene	1	0.0796	0.0838	500.0	524.2	ug/L	5	15	
Benzo(a)pyrene	1	0.0842	0.0887	500.0	517.5	ug/L	4	15	
Dibenz(a,h)anthracene	1	0.0205	0.0216	1000	1028	ug/L	3	15	
Benzo(g,h,i)perylene	1	0.0349	0.0347	1000	988.4	ug/L	-1	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.0970	500.0	517.3	ug/L	3	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0082	50000	48790	ug/L	-2	15	
Acenaphthylene	2	0.0277	0.0294	10000	10540	ug/L	5	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0029	50000	48340	ug/L	-3	15	
Naphthalene	3	0.0118	0.0116	5000	4917	ug/L	-2	15	
Acenaphthene	3	0.0242	0.0235	5000	4858	ug/L	-3	15	
Fluorene	3	0.1330	0.1328	1000	1002	ug/L	0	15	
Phenanthrene	3	0.1408	0.1398	500.0	496.3	ug/L	-1	15	
Anthracene	3	0.4129	0.4067	500.0	491.7	ug/L	-2	15	
Fluoranthene	3	0.0409	0.0404	1000	988.0	ug/L	-1	15	
Pyrene	3	0.1339	0.1274	500.0	477.5	ug/L	-4	15	
Benzo(a)anthracene	3	0.1518	0.1495	500.0	491.8	ug/L	-2	15	
Chrysene	3	0.1854	0.1872	500.0	502.5	ug/L	0	15	
Benzo(b)fluoranthene	3	0.0668	0.0669	1000	1001	ug/L	0	15	
Benzo(k)fluoranthene	3	0.3937	0.3999	500.0	505.1	ug/L	1	15	
Benzo(a)pyrene	3	0.2148	0.2147	500.0	497.5	ug/L	0	15	
Dibenz(a,h)anthracene	3	0.0311	0.0314	1000	997.6	ug/L	0	15	
Benzo(g,h,i)perylene	3	0.0629	0.0603	1000	952.8	ug/L	-5	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.0949	500.0	494.0	ug/L	-1	15	
1-Methylnaphthalene (F)	3	0.0131	0.0118	50000	45890	ug/L	-8	15	

SEQUENCE SUMMARY FOR 185511 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 295454249 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 11-NOV-2005
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	31500001	X	PRIMER - 315			11-NOV-2005 10:49	1.0						
002	31500002	X	PRIMER			11-NOV-2005 11:20	1.0						
003	31500003	X	IB - 315			11-NOV-2005 11:52	1.0						
004	31500004	X	IB			11-NOV-2005 12:24	1.0						
005	31500005	X	IB			11-NOV-2005 12:55	1.0						
006	31500006	ICAL				11-NOV-2005 13:27	1.0					1	
007	31500007	ICAL				11-NOV-2005 13:58	1.0					2	
008	31500008	ICAL				11-NOV-2005 14:30	1.0					3	
009	31500009	ICAL				11-NOV-2005 15:02	1.0					4	
010	31500010	ICAL				11-NOV-2005 15:33	1.0					5	
011	31500011	ICAL				11-NOV-2005 16:05	1.0					6	
012	31500012	ICAL				11-NOV-2005 16:36	1.0					7	
013	31500013	X	IB			11-NOV-2005 17:08	1.0						
014	31500014	X	IB			11-NOV-2005 17:40	1.0						
015	31500015	ICV				11-NOV-2005 18:11	1.0		10			8	511
016	31500016	X	ICV			11-NOV-2005 18:43	1.0					8	
017	31500017	X	IB			11-NOV-2005 19:14	1.0						

Stds used: 1=S1620 2=S1619 3=S1618 4=S1617 5=S1616 6=S1615 7=S1614 8=S1859

SEQUENCE SUMMARY FOR 185511 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296115859 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 21-MAR-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	08000001	X	IB - 080			21-MAR-2006 10:59	1.0						
002	08000002	CCV	L			21-MAR-2006 11:30	1.0	1.0			10	1	
003	08000003	X	CCV			21-MAR-2006 12:02	1.0					1	
004	08000004	X	IB			21-MAR-2006 12:33	1.0						
005	08000005	BS	QC332069	111439	Water	21-MAR-2006 13:05	1.0	0.002			10		
006	08000006	BSD	QC332070	111439	Water	21-MAR-2006 13:37	1.0	0.002			10		
007	08000007	BLANK	QC332068	111439	Water	21-MAR-2006 14:08	1.0	0.002			10		
008	08000008	SAMPLE	185511-012	111439	Water	21-MAR-2006 14:40	1.0	0.001942			10		
009	08000009	SAMPLE	185511-013	111439	Water	21-MAR-2006 15:11	1.0	0.001923			10		
010	08000010	SAMPLE	185558-011	111439	Water	21-MAR-2006 15:43	1.0						
011	08000011	SAMPLE	185558-012	111439	Water	21-MAR-2006 16:15	1.0						
012	08000012	SAMPLE	185558-013	111439	Water	21-MAR-2006 16:46	1.0						
013	08000013	SAMPLE	185558-014	111439	Water	21-MAR-2006 17:18	1.0						
014	08000014	SAMPLE	185558-015	111439	Water	21-MAR-2006 17:50	1.0						
015	08000015	X	IB			21-MAR-2006 18:21	1.0						512
016	08000016	CCV	M			21-MAR-2006 18:53	1.0	1.0			10	2	
017	08000017	X	CCV			21-MAR-2006 19:25	1.0					2	
018	08000018	X	IB			21-MAR-2006 19:56	1.0						
019	08000019	SAMPLE	185558-016	111439	Water	21-MAR-2006 20:28	1.0						
020	08000020	SAMPLE	185586-001	111439	Water	21-MAR-2006 20:59	1.0						
021	08000021	SAMPLE	185586-002	111439	Water	21-MAR-2006 21:31	1.0						
022	08000022	SAMPLE	185586-003	111439	Water	21-MAR-2006 22:02	1.0						
023	08000023	SAMPLE	185586-009	111439	Water	21-MAR-2006 22:34	1.0						
024	08000024	SAMPLE	185545-003	111395	Soil	21-MAR-2006 23:06	5.0	0.06693		2	10		
025	08000025	SAMPLE	185545-001	111395	Soil	21-MAR-2006 23:37	5.0	0.06583		2	10		
026	08000026	X	IB			22-MAR-2006 00:09	1.0						
027	08000027	X	IB			22-MAR-2006 00:40	1.0						
028	08000028	CCV	H			22-MAR-2006 01:12	1.0	1.0			10	3	
029	08000029	X	CCV			22-MAR-2006 01:43	1.0					3	
030	08000030	X	IB			22-MAR-2006 02:15	1.0						

Stds used: 1=S2256 2=S2255 3=S2954

REPORTING SUMMARY FOR 185511 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185511-012	Naphthalene	HPLC04	1	03/21/06 14:40
185511-012	Acenaphthylene	HPLC04	1	03/21/06 14:40
185511-012	Acenaphthene	HPLC04	1	03/21/06 14:40
185511-012	Fluorene	HPLC04	1	03/21/06 14:40
185511-012	Phenanthrene	HPLC04	3	03/21/06 14:40
185511-012	Anthracene	HPLC04	3	03/21/06 14:40
185511-012	Fluoranthene	HPLC04	3	03/21/06 14:40
185511-012	Pyrene	HPLC04	3	03/21/06 14:40
185511-012	Benzo(a)anthracene	HPLC04	3	03/21/06 14:40
185511-012	Chrysene	HPLC04	3	03/21/06 14:40
185511-012	Benzo(b)fluoranthene	HPLC04	3	03/21/06 14:40
185511-012	Benzo(k)fluoranthene	HPLC04	3	03/21/06 14:40
185511-012	Benzo(a)pyrene	HPLC04	3	03/21/06 14:40
185511-012	Dibenz(a,h)anthracene	HPLC04	3	03/21/06 14:40
185511-012	Benzo(g,h,i)perylene	HPLC04	3	03/21/06 14:40
185511-012	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/21/06 14:40
185511-012	1-Methylnaphthalene (UV)	HPLC04	1	03/21/06 14:40
185511-012	1-Methylnaphthalene (F)	HPLC04	3	03/21/06 14:40
185511-013	Naphthalene	HPLC04	1	03/21/06 15:11
185511-013	Acenaphthylene	HPLC04	1	03/21/06 15:11
185511-013	Acenaphthene	HPLC04	1	03/21/06 15:11
185511-013	Fluorene	HPLC04	1	03/21/06 15:11
185511-013	Phenanthrene	HPLC04	3	03/21/06 15:11
185511-013	Anthracene	HPLC04	3	03/21/06 15:11
185511-013	Fluoranthene	HPLC04	3	03/21/06 15:11
185511-013	Pyrene	HPLC04	3	03/21/06 15:11
185511-013	Benzo(a)anthracene	HPLC04	3	03/21/06 15:11
185511-013	Chrysene	HPLC04	3	03/21/06 15:11
185511-013	Benzo(b)fluoranthene	HPLC04	3	03/21/06 15:11
185511-013	Benzo(k)fluoranthene	HPLC04	3	03/21/06 15:11
185511-013	Benzo(a)pyrene	HPLC04	3	03/21/06 15:11
185511-013	Dibenz(a,h)anthracene	HPLC04	3	03/21/06 15:11
185511-013	Benzo(g,h,i)perylene	HPLC04	3	03/21/06 15:11
185511-013	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/21/06 15:11
185511-013	1-Methylnaphthalene (UV)	HPLC04	1	03/21/06 15:11
185511-013	1-Methylnaphthalene (F)	HPLC04	3	03/21/06 15:11
QC332068	Naphthalene	HPLC04	1	03/21/06 14:08
QC332068	Acenaphthylene	HPLC04	1	03/21/06 14:08
QC332068	Acenaphthene	HPLC04	1	03/21/06 14:08
QC332068	Fluorene	HPLC04	1	03/21/06 14:08
QC332068	Phenanthrene	HPLC04	3	03/21/06 14:08
QC332068	Anthracene	HPLC04	3	03/21/06 14:08
QC332068	Fluoranthene	HPLC04	3	03/21/06 14:08
QC332068	Pyrene	HPLC04	3	03/21/06 14:08
QC332068	Benzo(a)anthracene	HPLC04	3	03/21/06 14:08
QC332068	Chrysene	HPLC04	3	03/21/06 14:08
QC332068	Benzo(b)fluoranthene	HPLC04	3	03/21/06 14:08
QC332068	Benzo(k)fluoranthene	HPLC04	3	03/21/06 14:08
QC332068	Benzo(a)pyrene	HPLC04	3	03/21/06 14:08
QC332068	Dibenz(a,h)anthracene	HPLC04	3	03/21/06 14:08
QC332068	Benzo(g,h,i)perylene	HPLC04	3	03/21/06 14:08
QC332068	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/21/06 14:08

REPORTING SUMMARY FOR 185511 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC332068	1-Methylnaphthalene (UV)	HPLC04	1	03/21/06 14:08
QC332068	1-Methylnaphthalene (F)	HPLC04	3	03/21/06 14:08
QC332069	Naphthalene	HPLC04	1	03/21/06 13:05
QC332069	Fluorene	HPLC04	1	03/21/06 13:05
QC332069	Pyrene	HPLC04	3	03/21/06 13:05
QC332069	Benzo(a)pyrene	HPLC04	3	03/21/06 13:05
QC332069	1-Methylnaphthalene (UV)	HPLC04	1	03/21/06 13:05
QC332069	1-Methylnaphthalene (F)	HPLC04	3	03/21/06 13:05
QC332070	Naphthalene	HPLC04	1	03/21/06 13:37
QC332070	Fluorene	HPLC04	1	03/21/06 13:37
QC332070	Pyrene	HPLC04	3	03/21/06 13:37
QC332070	Benzo(a)pyrene	HPLC04	3	03/21/06 13:37
QC332070	1-Methylnaphthalene (UV)	HPLC04	1	03/21/06 13:37
QC332070	1-Methylnaphthalene (F)	HPLC04	3	03/21/06 13:37

Curtis & Tompkins Laboratories Sample Preparation Summary 20-MAR-2006 17:26

Batch Number : 111439
Date Extracted: 19-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : 8310
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2841M
Spike #2 ID : S2884B
Spike #3 ID :
SOP Version : 8310w_rv6

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185511-012		Treadwell & Rollo	Water	1030	mL	2	0.001942	1	5	.1	0		8310		
185511-013		Treadwell & Rollo	Water	1040	mL	2	0.001923	1	5	.1	0		8310		
185558-011		Treadwell & Rollo	Water	1050	mL	2	0.001905	1	6	.1	0		8310		
185558-012		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185558-013		Treadwell & Rollo	Water	1050	mL	2	0.001905	1	6	.1	0		8310		
185558-014		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185558-015		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185558-016		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185586-001		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185586-002		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185586-003		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185586-009		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
QC332068	BLANK		Water	1000	mL	2	0.002000	1		.1	0		8310		
QC332069	BS		Water	1000	mL	2	0.002000	1		.1	1		8310		
QC332070	BSD		Water	1000	mL	2	0.002000	1		.1	1		8310		

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Prep Chemist: Jessie Mee Reviewed By: [illegible] Date: 3/20/06

Relinquished By: [illegible] Received By: [illegible] Date: 21MAR2006

Curtis & Tompkins, Ltd

8310 WATER PREP LOG

BK2190

LIMS Batch No: 111439
LIMS Analysis: 8310
Extracted by: JOM
Date Extracted: 19 Mar 06

Extraction Method:
☐ EPA 3510c sep. funnel
☒ EPA 3520c cont. L/L
☐ _____

Cleanup Method (if needed):
☐ EPA 3640a GPC
☐ EPA 3630c Silica Gel

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185511-012 X	1030	5	2.0		
13 U	1040	5			
185588-011 I	1050	6			
12 F	1060				
13 M	1050				
14	1060				
15					
16 L					
185586-001 L					
02				*	
03				*	
09				*	
MB DC332068	1000	NA			
BS 69					
BSD 70					

KMH 3/20/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.1 mL of surrogate solution was added to all samples	8041M / V*	JOM 3/19/06
1.0 mL of matrix spiking solution was added to all spikes	8064B	
☒ Samples continuously extracted with about 450 mL of CH_2Cl_2	EM46014	
Extraction Start Time:	1225	
Extraction End Time:	0745	3/20/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	KMH 3/20/06
Extracts filtered through baked, CH2Cl2-rinsed ~~powdered~~ granular Na2SO4	EM45718532	
Exchanged 2x with Acetonitrile	EM45216	
Concentrated: ☒ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Silica Gel	NA	
Extracts filtered with 0.45 um PTFE **syringe filter**	WHATMAN K435	

Jennifer Ness 3/19/06
Extraction Chemist **Date**

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Contined from Page ____
Continued on Page ____

Kristin H 3/20/06
Reviewed by **Date**

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8310 Water 3520C
As of 04/29/06

Analyte	Units	HPLC02 1	HPLC02 2	HPLC02 3	HPLC04 1	HPLC04 2	HPLC04 3
Naphthalene	ug/L	0.16		0.069	0.097		0.10
Acenaphthylene	ug/L	0.37	0.29		0.24	0.16	
2-Methylnaphthalene	ug/L				0.072		0.10
Acenaphthene	ug/L	0.36		0.098	0.33		0.085
Fluorene	ug/L	0.051		0.054	0.028		0.017
Phenanthrene	ug/L	0.030		0.0086	0.0082		0.0078
Anthracene	ug/L	0.021		0.0077	0.024		0.023
Fluoranthene	ug/L	0.13		0.011	0.042		0.013
Pyrene	ug/L	0.066		0.0048	0.036		0.010
Benzo(a)anthracene	ug/L	0.044		0.0046	0.022		0.013
Chrysene	ug/L	0.036		0.0059	0.021		0.0096
Benzo(b)fluoranthene	ug/L	0.032		0.0081	0.015		0.013
Benzo(k)fluoranthene	ug/L	0.037		0.0044	0.013		0.0080
Benzo(a)pyrene	ug/L	0.055		0.0045	0.017		0.025
Dibenz(a,h)anthracene	ug/L	0.12		0.026	0.037		0.025
Benzo(g,h,i)perylene	ug/L	0.066		0.014	0.047		0.017
Indeno(1,2,3-cd)pyrene	ug/L	0.065		0.011	0.013		0.0096
1-Methylnaphthalene (UV)	ug/L	1.2	1.9		9.0	9.1	
1-Methylnaphthalene (F)	ug/L			0.72			9.8

METALS

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065PZ4B	Sampled:	03/13/06
Lab ID:	185511-001	Received:	03/14/06
Matrix:	Filtrate	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/25/06
Batch#:	111388		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Cadmium	ND	1.0	1.000
Calcium	25,000	10,000	20.00
Chromium	25	10	1.000
Copper	1.8	1.0	1.000
Iron	ND	100	1.000
Lead	ND	3.0	1.000
Magnesium	57,000	10,000	20.00
Manganese	ND	10	1.000
Nickel	ND	20	1.000
Potassium	880	500	1.000
Sodium	59,000	10,000	20.00
Vanadium	12	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065PZ5B	Sampled:	03/13/06
Lab ID:	185511-002	Received:	03/14/06
Matrix:	Filtrate	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/25/06
Batch#:	111388		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Cadmium	ND	1.0	1.000
Calcium	31,000	10,000	20.00
Chromium	21	10	1.000
Copper	1.0	1.0	1.000
Iron	110	100	1.000
Lead	ND	3.0	1.000
Magnesium	44,000	10,000	20.00
Manganese	ND	10	1.000
Nickel	ND	20	1.000
Potassium	500	500	1.000
Sodium	60,000	10,000	20.00
Vanadium	16	10	1.000
Zinc	23	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065MW101	Sampled:	03/13/06
Lab ID:	185511-009	Received:	03/14/06
Matrix:	Filtrate	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/25/06
Batch#:	111388		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	24	5.0	1.000
Cadmium	ND	1.0	1.000
Calcium	19,000	500	1.000
Chromium	ND	10	1.000
Copper	ND	1.0	1.000
Iron	19,000	100	1.000
Lead	ND	3.0	1.000
Magnesium	38,000	10,000	20.00
Manganese	51	10	1.000
Nickel	ND	20	1.000
Potassium	5,700	500	1.000
Sodium	200,000	10,000	20.00
Vanadium	ND	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065PZ2A	Sampled:	03/13/06
Lab ID:	185511-010	Received:	03/14/06
Matrix:	Filtrate	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/25/06
Batch#:	111388		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	17	5.0	1.000
Cadmium	ND	1.0	1.000
Calcium	28,000	10,000	20.00
Chromium	ND	10	1.000
Copper	ND	1.0	1.000
Iron	19,000	100	1.000
Lead	ND	3.0	1.000
Magnesium	52,000	10,000	20.00
Manganese	1,900	200	20.00
Nickel	ND	20	1.000
Potassium	930	500	1.000
Sodium	70,000	10,000	20.00
Vanadium	ND	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065PZ3A	Sampled:	03/13/06
Lab ID:	185511-011	Received:	03/14/06
Matrix:	Filtrate	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/25/06
Batch#:	111388		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Cadmium	ND	1.0	1.000
Calcium	35,000	10,000	20.00
Chromium	ND	10	1.000
Copper	2.6	1.0	1.000
Iron	120	100	1.000
Lead	ND	3.0	1.000
Magnesium	42,000	10,000	20.00
Manganese	ND	10	1.000
Nickel	ND	20	1.000
Potassium	1,700	500	1.000
Sodium	24,000	10,000	20.00
Vanadium	ND	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DW031306A	Batch#:	111388
Lab ID:	185511-012	Sampled:	03/13/06
Matrix:	Filtrate	Received:	03/14/06
Units:	ug/L	Prepared:	03/16/06
Diln Fac:	1.000	Analyzed:	03/25/06

Analyte	Result	RL
Aluminum	ND	100
Antimony	ND	1.0
Arsenic	ND	5.0
Barium	ND	10
Beryllium	ND	2.0
Cadmium	ND	1.0
Calcium	ND	500
Chromium	ND	10
Cobalt	ND	10
Copper	ND	1.0
Iron	ND	100
Lead	ND	3.0
Magnesium	ND	500
Manganese	ND	10
Nickel	ND	20
Potassium	ND	500
Selenium	ND	5.0
Silver	ND	1.0
Sodium	ND	500
Thallium	ND	1.0
Vanadium	ND	10
Zinc	ND	20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DW031306B	Batch#:	111388
Lab ID:	185511-013	Sampled:	03/13/06
Matrix:	Filtrate	Received:	03/14/06
Units:	ug/L	Prepared:	03/16/06
Diln Fac:	1.000	Analyzed:	03/25/06

Analyte	Result	RL
Aluminum	ND	100
Antimony	ND	1.0
Arsenic	ND	5.0
Barium	ND	10
Beryllium	ND	2.0
Cadmium	ND	1.0
Calcium	ND	500
Chromium	ND	10
Cobalt	ND	10
Copper	ND	1.0
Iron	ND	100
Lead	ND	3.0
Magnesium	ND	500
Manganese	ND	10
Nickel	ND	20
Potassium	ND	500
Selenium	ND	5.0
Silver	ND	1.0
Sodium	ND	500
Thallium	ND	1.0
Vanadium	ND	10
Zinc	ND	20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331831	Batch#:	111388
Matrix:	Filtrate	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/24/06

Analyte	Result	RL
Aluminum	ND	100
Antimony	ND	1.0
Arsenic	ND	5.0
Barium	ND	10
Beryllium	ND	2.0
Cadmium	ND	1.0
Calcium	ND	500
Chromium	ND	10
Cobalt	ND	10
Copper	ND	1.0
Iron	ND	100
Lead	ND	3.0
Magnesium	ND	500
Manganese	ND	10
Nickel	ND	20
Potassium	ND	500
Selenium	ND	5.0
Silver	ND	1.0
Sodium	ND	500
Thallium	ND	1.0
Vanadium	ND	10
Zinc	ND	20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Molybdenum

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Analyte:	Molybdenum	Batch#:	111388
Matrix:	Filtrate	Sampled:	03/13/06
Units:	ug/L	Received:	03/14/06
Diln Fac:	1.000	Prepared:	03/16/06

Field ID	Type	Lab ID	Result	RL	Analyzed
DW031306A	SAMPLE	185511-012	ND	5.0	03/25/06
DW031306B	SAMPLE	185511-013	ND	5.0	03/25/06
	BLANK	QC331831	ND	5.0	03/24/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Hardness (Total)

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	SM 2340B
Analyte:	Hardness as CaCO3	Sampled:	03/13/06
Matrix:	Filtrate	Received:	03/14/06
Units:	mg/L	Prepared:	03/16/06
Diln Fac:	1.000	Analyzed:	03/25/06
Batch#:	111388		

Field ID	Lab ID	Result	RL
DW031306A	185511-012	ND	3.3
DW031306B	185511-013	ND	3.3

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Mercury by Cold Vapor AA

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Sampled:	03/13/06
Matrix:	Filtrate	Received:	03/14/06
Units:	ug/L	Prepared:	03/16/06
Diln Fac:	1.000	Analyzed:	03/16/06
Batch#:	111380		

Field ID	Type	Lab ID	Result	RL
DW031306A	SAMPLE	185511-012	ND	0.20
DW031306B	SAMPLE	185511-013	ND	0.20
	BLANK	QC331792	ND	0.20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Matrix:	Filtrate	Batch#:	111388
Units:	ug/L	Prepared:	03/16/06
Diln Fac:	1.000	Analyzed:	03/24/06

Type: BS Lab ID: QC331832

Analyte	Spiked	Result	%REC	Limits
Aluminum	100.0	99.08	99	80-120
Antimony	100.0	103.2	103	80-120
Arsenic	100.0	102.0	102	80-120
Barium	100.0	95.63	96	80-120
Beryllium	100.0	96.79	97	80-120
Cadmium	100.0	98.33	98	80-120
Calcium	10,000	10,310	103	80-120
Chromium	100.0	99.03	99	80-120
Cobalt	100.0	97.84	98	80-120
Copper	100.0	101.1	101	80-120
Iron	10,000	10,020	100	80-120
Lead	100.0	99.49	99	80-120
Magnesium	10,000	10,210	102	80-120
Manganese	100.0	96.46	96	80-120
Nickel	100.0	99.79	100	80-120
Potassium	10,000	10,410	104	80-120
Selenium	100.0	92.80	93	80-120
Silver	100.0	102.2	102	80-120
Sodium	10,000	10,040	100	80-120
Thallium	100.0	93.11	93	80-120
Vanadium	100.0	97.70	98	80-120
Zinc	100.0	97.64	98	80-120

Type: BSD Lab ID: QC331833

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	100.0	99.94	100	80-120	1	20
Antimony	100.0	104.7	105	80-120	1	20
Arsenic	100.0	102.5	103	80-120	0	20
Barium	100.0	96.60	97	80-120	1	20
Beryllium	100.0	98.58	99	80-120	2	20
Cadmium	100.0	98.35	98	80-120	0	20
Calcium	10,000	10,220	102	80-120	1	20
Chromium	100.0	99.50	100	80-120	0	20
Cobalt	100.0	98.07	98	80-120	0	20
Copper	100.0	101.8	102	80-120	1	20
Iron	10,000	10,080	101	80-120	1	20
Lead	100.0	100.7	101	80-120	1	20
Magnesium	10,000	10,270	103	80-120	1	20
Manganese	100.0	96.51	97	80-120	0	20
Nickel	100.0	101.1	101	80-120	1	20
Potassium	10,000	10,360	104	80-120	0	20
Selenium	100.0	93.27	93	80-120	1	20
Silver	100.0	103.4	103	80-120	1	20
Sodium	10,000	9,984	100	80-120	1	20
Thallium	100.0	94.93	95	80-120	2	20
Vanadium	100.0	96.98	97	80-120	1	20
Zinc	100.0	98.26	98	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Mercury by Cold Vapor AA

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	111380
Field ID:	1349MW02	Sampled:	03/10/06
MSS Lab ID:	185457-016	Received:	03/10/06
Matrix:	Filtrate	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/16/06
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC331794		5.000	5.060	101	80-120		
BSD	QC331795		5.000	4.960	99	80-120	2	20
MS	QC331796	<0.07957	5.000	5.240	105	75-125		
MSD	QC331797		5.000	5.480	110	75-125	4	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Molybdenum

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Analyte:	Molybdenum	Sampled:	03/08/06
Matrix:	Filtrate	Received:	03/09/06
Units:	ug/L	Prepared:	03/16/06
Diln Fac:	1.000	Analyzed:	03/24/06
Batch#:	111388		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
	BS		QC331832		100.0	100.4	100	80-120		
	BSD		QC331833		100.0	101.9	102	80-120	1	20
BB3SW104	MS	185408-010	QC331834	0.7678	100.0	103.1	102	75-125		
BB3SW104	MSD	185408-010	QC331835		100.0	104.5	104	75-125	1	20
DAESP03	MS	185408-008	QC331836	0.1349	100.0	103.5	103	75-125		
DAESP03	MSD	185408-008	QC331837		100.0	101.8	102	75-125	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	BB3SW104	Sampled:	03/08/06
MSS Lab ID:	185408-010	Received:	03/09/06
Matrix:	Filtrate	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/24/06
Batch#:	111388		

Type: MS Lab ID: QC331834

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln Fac
Aluminum	24.58	100.0	119.0	94	75-125	1.000
Antimony	0.4902	100.0	106.6	106	75-125	1.000
Arsenic	0.8054	100.0	100.8	100	75-125	1.000
Barium	18.10	100.0	119.8	102	75-125	1.000
Beryllium	0.07248	100.0	97.60	98	75-125	1.000
Cadmium	<0.1409	100.0	96.32	96	75-125	1.000
Calcium	17,700	10,000	27,580	99	75-125	20.00
Chromium	8.451	100.0	108.5	100	75-125	1.000
Cobalt	0.3294	100.0	96.24	96	75-125	1.000
Copper	2.455	100.0	99.80	97	75-125	1.000
Iron	86.87	10,000	10,210	101	75-125	1.000
Lead	<0.2399	100.0	104.2	104	75-125	1.000
Magnesium	31,550	10,000	43,600	121	75-125	20.00
Manganese	9.431	100.0	107.5	98	75-125	1.000
Nickel	9.268	100.0	107.0	98	75-125	1.000
Potassium	1,191	10,000	11,190	100	75-125	1.000
Selenium	0.3589	100.0	89.40	89	75-125	1.000
Silver	0.05991	100.0	100.2	100	75-125	1.000
Sodium	43,920	10,000	55,090	112 NM	75-125	20.00
Thallium	0.9831	100.0	96.14	95	75-125	1.000
Vanadium	2.263	100.0	101.5	99	75-125	1.000
Zinc	24.34	100.0	115.6	91	75-125	20.00

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	BB3SW104	Sampled:	03/08/06
MSS Lab ID:	185408-010	Received:	03/09/06
Matrix:	Filtrate	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/24/06
Batch#:	111388		

Type: MSD Lab ID: QC331835

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
Aluminum	100.0	116.5	92	75-125	2	20	1.000
Antimony	100.0	107.0	107	75-125	0	20	1.000
Arsenic	100.0	101.0	100	75-125	0	20	1.000
Barium	100.0	120.2	102	75-125	0	20	1.000
Beryllium	100.0	97.36	97	75-125	0	20	1.000
Cadmium	100.0	98.29	98	75-125	2	20	1.000
Calcium	10,000	27,290	96	75-125	1	20	20.00
Chromium	100.0	110.1	102	75-125	1	20	1.000
Cobalt	100.0	97.79	97	75-125	2	20	1.000
Copper	100.0	100.3	98	75-125	0	20	1.000
Iron	10,000	10,350	103	75-125	1	20	1.000
Lead	100.0	104.3	104	75-125	0	20	1.000
Magnesium	10,000	43,800	123	75-125	0	20	20.00
Manganese	100.0	108.8	99	75-125	1	20	1.000
Nickel	100.0	106.9	98	75-125	0	20	1.000
Potassium	10,000	11,240	100	75-125	0	20	1.000
Selenium	100.0	90.07	90	75-125	1	20	1.000
Silver	100.0	101.7	102	75-125	1	20	1.000
Sodium	10,000	55,160	112 NM	75-125	0	20	20.00
Thallium	100.0	96.99	96	75-125	1	20	1.000
Vanadium	100.0	102.4	100	75-125	1	20	1.000
Zinc	100.0	110.5	86	75-125	5	20	20.00

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DAESP03	Sampled:	03/08/06
MSS Lab ID:	185408-008	Received:	03/09/06
Matrix:	Filtrate	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/24/06
Batch#:	111388		

Type: MS Lab ID: QC331836

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln Fac
Aluminum	125.1	100.0	244.6	120	75-125	20.00
Antimony	0.3902	100.0	109.0	109	75-125	1.000
Arsenic	<0.6516	100.0	102.4	102	75-125	1.000
Barium	34.92	100.0	139.7	105	75-125	1.000
Beryllium	<0.05514	100.0	98.01	98	75-125	1.000
Cadmium	<0.1409	100.0	99.59	100	75-125	1.000
Calcium	9,570	10,000	19,220	97	75-125	20.00
Chromium	7.416	100.0	109.1	102	75-125	1.000
Cobalt	0.6223	100.0	100.1	99	75-125	1.000
Copper	6.843	100.0	108.3	101	75-125	1.000
Iron	445.8	10,000	10,720	103	75-125	1.000
Lead	1.798	100.0	104.7	103	75-125	1.000
Magnesium	17,340	10,000	29,900	126 *	75-125	20.00
Manganese	22.55	100.0	121.7	99	75-125	1.000
Nickel	53.69	100.0	156.2	103	75-125	1.000
Potassium	1,596	10,000	12,080	105	75-125	1.000
Selenium	0.4629	100.0	91.90	91	75-125	1.000
Silver	<0.04084	100.0	102.3	102	75-125	1.000
Sodium	23,620	10,000	32,770	92	75-125	20.00
Thallium	0.3495	100.0	96.19	96	75-125	1.000
Vanadium	2.482	100.0	102.2	100	75-125	1.000
Zinc	17.13	100.0	111.0	94	75-125	1.000

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DAESP03	Sampled:	03/08/06
MSS Lab ID:	185408-008	Received:	03/09/06
Matrix:	Filtrate	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/24/06
Batch#:	111388		

Type: MSD Lab ID: QC331837

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
Aluminum	100.0	233.8	109	75-125	5	20	20.00
Antimony	100.0	106.6	106	75-125	2	20	1.000
Arsenic	100.0	99.86	100	75-125	3	20	1.000
Barium	100.0	137.2	102	75-125	2	20	1.000
Beryllium	100.0	97.17	97	75-125	1	20	1.000
Cadmium	100.0	96.91	97	75-125	3	20	1.000
Calcium	10,000	19,370	98	75-125	1	20	20.00
Chromium	100.0	106.0	99	75-125	3	20	1.000
Cobalt	100.0	98.33	98	75-125	2	20	1.000
Copper	100.0	106.2	99	75-125	2	20	1.000
Iron	10,000	10,550	101	75-125	2	20	1.000
Lead	100.0	104.3	103	75-125	0	20	1.000
Magnesium	10,000	29,260	119	75-125	2	20	20.00
Manganese	100.0	119.6	97	75-125	2	20	1.000
Nickel	100.0	153.3	100	75-125	2	20	1.000
Potassium	10,000	11,680	101	75-125	3	20	1.000
Selenium	100.0	89.47	89	75-125	3	20	1.000
Silver	100.0	101.5	102	75-125	1	20	1.000
Sodium	10,000	32,730	91	75-125	0	20	20.00
Thallium	100.0	96.69	96	75-125	1	20	1.000
Vanadium	100.0	100.2	98	75-125	2	20	1.000
Zinc	100.0	109.6	92	75-125	1	20	1.000

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DAESP03	Units:	ug/L
Type:	Serial Dilution	Batch#:	111388
MSS Lab ID:	185408-008	Sampled:	03/08/06
Lab ID:	QC331838	Received:	03/09/06
Matrix:	Filtrate	Analyzed:	03/24/06

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Diln Fac
Aluminum	125.1	100.0	126.0 J	500.0	1	10	5.000
Antimony	ND	1.000	ND	5.000		10	5.000
Arsenic	ND	5.000	ND	25.00		10	5.000
Barium	34.92	10.00	35.18 J	50.00	1	10	5.000
Beryllium	ND	2.000	ND	10.00		10	5.000
Cadmium	ND	1.000	ND	5.000		10	5.000
Calcium	9,570	500.0	9,113	2,500	5	10	5.000
Chromium	ND	10.00	7.217 J	50.00	3	10	5.000
Cobalt	ND	10.00	0.6166 J	50.00		10	5.000
Copper	6.843	1.000	7.008	5.000		10	5.000
Iron	445.8	100.0	422.5 J	500.0	5	10	5.000
Lead	ND	3.000	1.736 J	15.00		10	5.000
Magnesium	17,340	500.0	18,060	2,500	4	10	5.000
Manganese	22.55	10.00	22.78 J	50.00	1	10	5.000
Nickel	53.69	20.00	53.93 J	100.0	0	10	5.000
Potassium	1,596	500.0	1,659 J	2,500	4	10	5.000
Selenium	ND	5.000	ND	25.00		10	5.000
Silver	ND	1.000	ND	5.000		10	5.000
Sodium	23,620	10,000	24,650 J	50,000	4	10	100.0
Thallium	ND	1.000	0.7319 J	5.000		10	5.000
Vanadium	ND	10.00	2.073 J	50.00		10	5.000
Zinc	ND	20.00	20.65 J	100.0		10	5.000

J= Estimated value
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Molybdenum

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Analyte:	Molybdenum	Units:	ug/L
Field ID:	DAESP03	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	111388
MSS Lab ID:	185408-008	Sampled:	03/08/06
Lab ID:	QC331838	Received:	03/09/06
Matrix:	Filtrate	Analyzed:	03/24/06

MSS Result	MSS RL	Result	RL	% Diff Lim
ND	5.000	ND	25.00	10

ND= Not Detected
RL= Reporting Limit

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET05
Seqnum: 56120449064
File : c2415064
IDF : 1.0
Lab ID: 185408-008
Matrix: Filtrate
Batch : 111388
Time : 24-MAR-2006 21:18
Cal : 56120449001
Units : ug/L

Type : PDS
Inst : MET05
Seqnum: 56120449073
File : c2415073
IDF : 1.0
Lab ID: QC331839
Matrix: Filtrate
Batch : 111388
Time : 24-MAR-2006 22:09
Cal : 56120449001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (100X), 05WS0207

Analyte	MSS	Spiked	PDS	%Rec	Limits	Flags
Aluminum	125.1	100.0	241.7 >LR	117	75-125	>LR **b***
Antimony	0.3902	100.0	105.1	105	75-125	
Arsenic	ND	100.0	99.90	100	75-125	
Barium	34.92	100.0	134.6	100	75-125	
Beryllium	ND	100.0	97.85	98	75-125	
Cadmium	ND	100.0	96.62	97	75-125	
Calcium	9570	10000	19910	103	75-125	
Chromium	7.416	100.0	105.9	98	75-125	
Cobalt	0.6223	100.0	97.53	97	75-125	
Copper	6.843	100.0	106.0	99	75-125	
Iron	445.8	10000	10470	100	75-125	
Lead	1.798	100.0	105.8	104	75-125	
Magnesium	17340	10000	27200 >LR	99	75-125	>LR **b***
Manganese	22.55	100.0	118.4	96	75-125	
Molybdenum	0.1349	100.0	101.2	101	75-125	
Nickel	53.69	100.0	152.2	99	75-125	
Potassium	1596	10000	11770	102	75-125	
Selenium	0.4629	100.0	89.55	89	75-125	
Silver	ND	100.0	100.8	101	75-125	
Thallium	0.3495	100.0	97.28	97	75-125	
Vanadium	2.482	100.0	99.39	97	75-125	
Zinc	17.13	100.0	107.9	91	75-125	

ISTD (ICALBLK c2415003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	988200	821562	-16.86
Scandium	562292	448903	-20.17
Germanium	180440	137575	-23.76
Indium	1368410	984025	-28.09
Bismuth	1333700	903300	-32.27

MISSING READINGS: **NA**

>LR=overrange b=noncompliant

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET05
Seqnum: 56120449077
File : c2415077
IDF : 20.0
Lab ID: 185408-008
Matrix: Filtrate
Batch : 111388
Time : 24-MAR-2006 22:31
Cal : 56120449001
Units : ug/L

Type : PDS
Inst : MET05
Seqnum: 56120449081
File : c2415081
IDF : 20.0
Lab ID: QC331839
Matrix: Filtrate
Batch : 111388
Time : 24-MAR-2006 22:53
Cal : 56120449001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (2000X), 05WS0207

Analyte	MSS	Spiked	PDS	%Rec	Limits	Flags
Aluminum	12.36	5.000	11.40	**-19***	75-125	
Antimony	ND	5.000	5.015	100	75-125	
Arsenic	ND	5.000	5.010	100	75-125	
Barium	1.855	5.000	6.365	90	75-125	
Beryllium	ND	5.000	4.849	97	75-125	
Cadmium	ND	5.000	5.290	106	75-125	
Calcium	510.0	500.0	941.0	86	75-125	
Chromium	0.4092	5.000	5.280	97	75-125	
Cobalt	0.07350	5.000	4.902	97	75-125	
Copper	0.5145	5.000	5.380	97	75-125	
Iron	41.03	500.0	496.2	91	75-125	
Lead	ND	5.000	4.664	93	75-125	
Magnesium	909.5	500.0	1432	105	75-125	
Manganese	1.312	5.000	6.000	94	75-125	
Molybdenum	0.1843	5.000	4.835	93	75-125	
Nickel	2.836	5.000	7.635	96	75-125	
Potassium	90.00	500.0	609.0	104	75-125	
Selenium	ND	5.000	5.440	109	75-125	
Silver	ND	5.000	5.235	105	75-125	
Sodium	1181	500.0	1594	83	75-125	
Thallium	1.206	5.000	4.314	**62***	75-125	
Vanadium	ND	5.000	4.870	97	75-125	
Zinc	1.283	5.000	6.375	102	75-125	

ISTD (ICALBLK c2415003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	988200	876342	-11.32
Scandium	562292	471766	-16.10
Germanium	180440	152091	-15.71
Indium	1368410	1151606	-15.84
Bismuth	1333700	1142680	-14.32

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56120449001
Units : ug/L

Date : 24-MAR-2006 15:41
X Axis : R

Reviewer: ---
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	c2415004	56120449004	CS1	24-MAR-2006 15:46	S2889
L2	c2415005	56120449005	CS2	24-MAR-2006 15:52	S2890
L3	c2415006	56120449006	CS3	24-MAR-2006 15:57	S2891
L4	c2415007	56120449007	CS4	24-MAR-2006 16:03	S2892
L5	c2415008	56120449008	CS5	24-MAR-2006 16:09	S2886
L6	c2415009	56120449009	CS6	24-MAR-2006 16:14	S2887

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		1.8605	1.1946	0.4907	0.4094	0.4097	BLNK	-1.6870	2.46573		0.8730	1.000	0.995	
Antimony	0.1780	0.1434	0.1257	0.1098	0.1029	0.1019	BLNK	-0.1664	9.80139		0.1269	1.000	0.995	
Arsenic		0.2728	0.2620	0.2056	0.2010	0.1990	BLNK	-0.1452	5.01868		0.2281	1.000	0.995	
Barium	0.0583	0.0574	0.0479	0.0444	0.0446	0.0453	BLNK	-0.0450	22.1682		0.0496	1.000	0.995	
Beryllium	0.0661	0.0593	0.0607	0.0585	0.0590	0.0588	BLNK	-0.0029	17.0061		0.0604	1.000	0.995	
Cadmium	0.5468	0.4191	0.3292	0.2506	0.2312	0.2236	BLNK	-0.3575	4.45075		0.3334	1.000	0.995	
Calcium		0.0121	0.0104	0.0088	0.0089	0.0088	BLNK	-15.467	113.905		0.0098	1.000	0.995	
Chromium		2.3744	1.7967	1.1375	1.0851	1.0705	BLNK	-0.6189	0.93502		1.4929	1.000	0.995	
Cobalt	1.6505	1.5760	1.5236	1.4844	1.4616	1.4745	BLNK	-0.0218	0.67948		1.5284	1.000	0.995	
Copper		0.7293	0.6445	0.4408	0.3931	0.3808	BLNK	-0.3058	2.61347		0.5177	1.000	0.995	
Iron		0.0506	0.0428	0.0355	0.0358	0.0349	BLNK	-21.353	28.5285		0.0399	1.000	0.995	
Lead	0.5069	0.5076	0.4807	0.4612	0.4729	0.4717	BLNK	-0.0318	2.11926		0.4835	1.000	0.995	
Magnesium		0.0517	0.0515	0.0513	0.0513	0.0492	BLNK	-1.4769	20.1503		0.0510	1.000	0.995	
Manganese	2.2757	2.0345	1.9020	1.6279	1.5790	1.6056	BLNK	-0.0591	0.62511		1.8374	1.000	0.995	
Molybdenum		0.4345	0.4191	0.4041	0.4047	0.4013	BLNK	-0.0797	2.48909		0.4127	1.000	0.995	
Nickel	0.6375	0.4675	0.4141	0.3391	0.3194	0.3117	BLNK	-0.1830	3.19569		0.4149	1.000	0.995	
Potassium		0.6418	0.4774	0.3254	0.3000	0.2894	BLNK	-57.377	3.44186		0.4068	1.000	0.995	
Selenium		0.0460	0.0348	0.0223	0.0207	0.0199	BLNK	-0.4990	50.0105		0.0287	1.000	0.995	
Silver	1.1672	1.0952	1.1200	1.0903	1.0505	1.0242	BLNK	-0.0141	0.97135		1.0912	1.000	0.995	
Sodium		0.6166	0.6212	0.5282	0.5092	0.4996	BLNK	-10.059	1.99501		0.5550	1.000	0.995	
Thallium		0.3411	0.3263	0.3031	0.3335	0.3464	BLNK	-0.0388	2.91011		0.3301	1.000	0.995	
Vanadium		1.3448	1.3988	1.2138	1.2039	1.2363	BLNK	-0.1996	0.81418		1.2795	1.000	0.995	
Zinc		1.2572	0.8374	0.3067	0.2462	0.2333	BLNK	-1.6768	4.28153		0.5762	0.999	0.995	

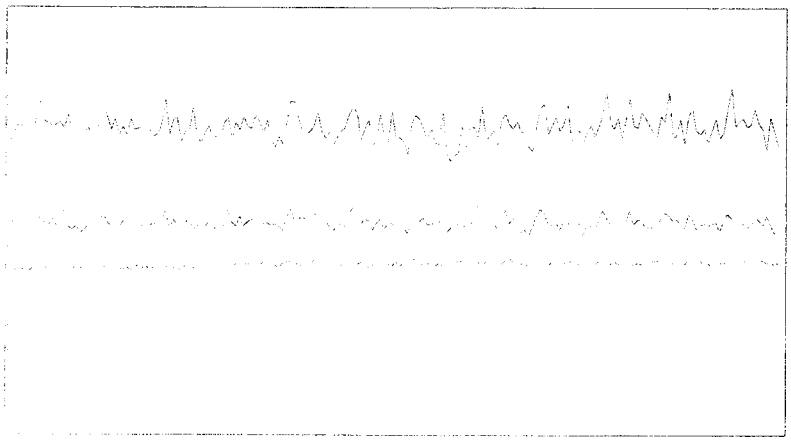
541

BLNK=Y=aX+[blank]

Instrument amount = a0 + response * a1 + response^2 * a2

Tune Report

Tune File : ATUNE.U



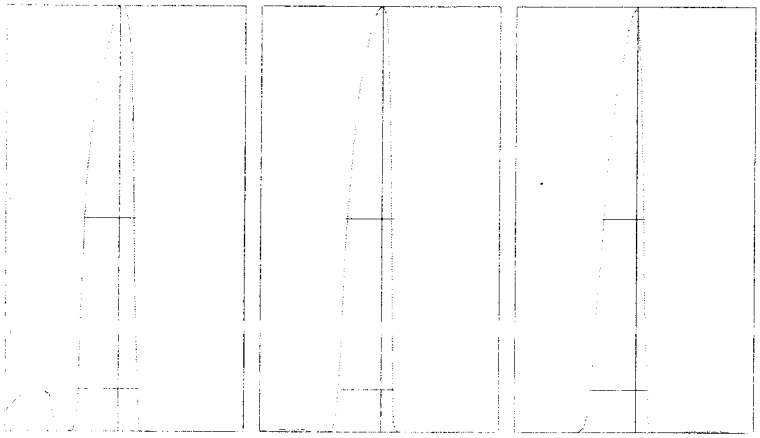
m/z:	7	89	205
Range:	20,000	50,000	50,000
Count:	13,609	23,577	20,220
Mean:	14435.6	24900.6	19936.6
RSD%:	4.15	2.70	1.95
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.45%
Doubly Charged:	70/140	0.87%

Background:

m/z:	7	89	205
Cps:	3.6	2.7	3.4



m/z:	7	89	205
Height:	14,342	24,842	20,339
Axis:	6.95	89.05	205.05
W-50%:	0.65	0.60	0.55
W-10%:	0.7500	0.700	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===			===Ion Lenses===			===Q-Pole Parameters===	
RF Power:	1210	W	Extract 1:	-156.2	V	AMU Gain:	129
RF Matching:	1.62	V	Extract 2:	-96	V	AMU Offset:	127
Smpl Depth:	7	mm	Einzel 1,3:	-66	V	Axis Gain:	0.9998
Torch-H:	0	mm	Einzel 2:	16	V	Axis Offset:	-0.07
Torch-V:	0.4	mm	Omega Bias:	-33	V	QP Bias:	1.5 V
Carrier Gas:	1.14	L/min	Omega (+):	1	V		
Makeup Gas:	0	L/min	Omega (-):	-6.7	V	===Detector Parameters===	
Optional Gas:	---	%	QP Focus:	7.1	V	Discriminator:	8.7 mV
PeriPump1:	0.1	rps	Plate Bias:	-12.5	V	Analog HV:	1760 V
PeriPump2:	---	rps				Pulse HV:	1200 V
S/C Temp:	2	degC					

Generated : Mar 24, 2006 09:36:10
Printed : Mar 24, 2006 09:36:18

P/A Factor Tuning Report

Acquired:Mar 24 2006 09:58 am

Mass[amu]	Element	P/A Factor
6	Li	0.069890
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.091599
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.096622
45	Sc	0.093601
51	V	0.096393
52	Cr	0.098039
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.100615
57	Fe	0.103163
59	Co	0.102826
60	Ni	Sensitivity too low
63	Cu	0.103753
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.103865
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.109250
111	Cd	Sensitivity too low
114	Cd	0.107106
115	In	0.111014
118	(In)	Sensitivity too high
121	Sb	0.107751
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.115795
166	Er	Sensitivity too low

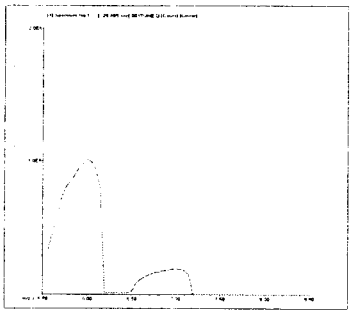
```
205        Tl    0.119230
206      (Pb)    0.115740
207      (Pb)  Sensitivity too low
208        Pb    0.118111
209        Bi    0.119285

===Detector Parameters===
  Discriminator: 8.7 mV
      Analog HV: 1760 V
       Pulse HV: 1200 V
```

6020 QC Tune Report

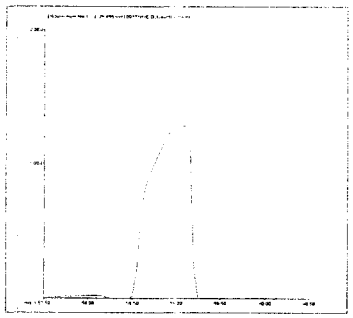
Data File: C:\ICPCHEM\1\DATA\06C2415a.B\001TUNE.D
Date Acquired: Mar 24 2006 03:29 pm
Acq. Method: TN6020.M
Operator:
Sample Name: TUN,S2898
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

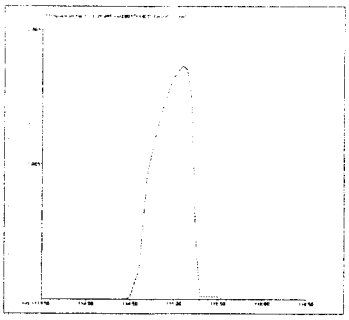
Element	Actual	Required	Flag
7 Li	0.91	5.00	
59 Co	0.65	5.00	
115 In	0.92	5.00	
205 Tl	0.37	5.00	



7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



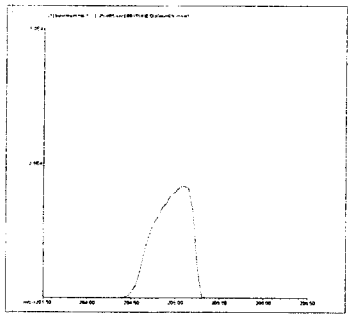
115 In

Mass Calib.

Actual:	115.10	
Required:	114.90 -	115.10
Flag:		

Peak Width

Actual:	0.60
Required:	0.90
Flag:	



205 Tl

Mass Calib.

Actual:	205.10	
Required:	204.90 -	205.10
Flag:		

Peak Width

Actual:	0.65
Required:	0.90
Flag:	

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2415A.B\002BLNK.D\002BLNK.D#
Date Acquired:	Mar 24 2006 03:35 pm
Acq. Method:	60200111.M
Operator:	
Sample Name:	RINSE
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update:	Mar 24 2006 11:26 am
Sample Type:	6-Blank
Dilution Factor:	1.00

QC Elements

Element	Corr. Conc.		RSD(%)	Raw Conc.	High Limit	Flag
9 Be	-0.001015	ppb	161.38	-0.001015	1.00	
23 Na	-1.738	ppb	92.98	-1.738	1.00	
26 Mg	-0.8588	ppb	49.65	-0.8588	1.00	
27 Al	-1.781	ppb	24.15	-1.781	1.00	
39 K	0.3404	ppb	385.72	0.3404	1.00	
44 Ca	-6.799	ppb	22.49	-6.799	1.00	
51 V	0.03006	ppb	56.52	0.03006	1.00	
52 Cr	-0.06791	ppb	29.58	-0.06791	1.00	
55 Mn	-0.003013	ppb	187.09	-0.003013	1.00	
57 Fe	2.081	ppb	32.68	2.081	1.00	
59 Co	-0.00569	ppb	52.51	-0.00569	1.00	
60 Ni	0.01019	ppb	89.53	0.01019	1.00	
65 Cu	-0.1327	ppb	25.97	-0.1327	1.00	
66 Zn	-0.02679	ppb	304.18	-0.02679	1.00	
75 As	-0.2177	ppb	66.61	-0.2177	1.00	
82 Se	-0.1506	ppb	182.20	-0.1506	1.00	
95 Mo	0.02955	ppb	8.31	0.02955	1.00	
109 Ag	-0.006384	ppb	7.97	-0.006384	1.00	
111 Cd	0.05344	ppb	67.35	0.05344	1.00	
121 Sb	0.08967	ppb	16.39	0.08967	1.00	
137 Ba	-0.0177	ppb	20.78	-0.0177	1.00	
205 Tl	0.009955	ppb	109.49	0.009955	1.00	
208 Pb	-0.002155	ppb	105.01	-0.002155	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	988486.00	0.86	---	#VALUE!	80 - 120	
45 Sc	582573.75	2.56	---	#VALUE!	80 - 120	
72 Ge	181827.56	0.52	---	#VALUE!	80 - 120	
115 In	1400126.40	0.48	---	#VALUE!	80 - 120	
209 Bi	1349633.10	0.73	---	#VALUE!	80 - 120	

ISTD Ref File : ---

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Fail
ISTD: Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2415a.B\003CAL
Date Acquired:	Mar 24 2006 03:41 pm
Operator:	
Sample Name:	std-blk
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 24 2006 11:26 am
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	988199.50	A	16580.00	1.68
9	Be	3.33	P	3.33	99.99
23	Na	56710.00	P	10620.00	18.73
26	Mg	824.44	P	365.40	44.32
27	Al	7695.56	P	3062.00	39.79
39	K	187473.30	P	1880.00	1.00
44	Ca	1527.23	P	215.90	14.14
45	Sc	562292.19	P	586.20	0.10
51	V	884.61	P	109.60	12.39
52	Cr	2388.89	P	49.14	2.06
55	Mn	341.11	P	3.85	1.13
57	Fe	2701.11	P	177.70	6.58
59	Co	115.56	P	37.91	32.81
60	Ni	206.67	P	12.02	5.82
65	Cu	422.22	P	30.06	7.12
66	Zn	1413.33	P	56.96	4.03
72	Ge	180440.20	P	158.70	0.09
75	As	104.41	P	105.20	100.75
82	Se	36.00	P	14.34	39.83
95	Mo	115.56	P	33.72	29.18
109	Ag	52.22	P	6.94	13.29
111	Cd	289.93	P	46.06	15.89
115	In	1368410.00	A	7751.00	0.57
121	Sb	464.44	P	30.97	6.67
137	Ba	55.56	P	7.70	13.86
205	Tl	355.56	P	8.39	2.36
208	Pb	400.00	P	52.39	13.10
209	Bi	1333700.00	A	8509.00	0.64

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\004CALI.D\004CALI.D#
Date Acquired: Mar 24 2006 03:46 pm
Operator:
Sample Name: CS1,S2889
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 03:42 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	988584.31	A	14250.00	1.44
9 Be	326.67	P	21.86	6.69
23 Na	202917.80	P	2848.00	1.40
26 Mg	14972.22	P	65.52	0.44
27 Al	10315.56	P	1244.00	12.06
39 K	272992.19	P	890.10	0.33
44 Ca	4467.14	P	154.80	3.47
45 Sc	554806.63	P	3427.00	0.62
51 V	1905.36	P	245.40	12.88
52 Cr	3317.78	P	66.78	2.01
55 Mn	2034.44	P	56.80	2.79
57 Fe	5817.78	P	117.10	2.01
59 Co	1475.56	P	71.21	4.83
60 Ni	570.00	P	43.33	7.60
65 Cu	977.71	P	21.17	2.17
66 Zn	1907.70	P	62.03	3.25
72 Ge	178790.91	P	886.40	0.50
75 As	251.72	P	27.27	10.83
82 Se	55.78	P	9.44	16.92
95 Mo	477.78	P	37.47	7.84
109 Ag	1043.33	P	35.12	3.37
111 Cd	488.90	P	35.84	7.33
115 In	1341015.00	A	6675.00	0.50
121 Sb	1193.33	P	51.75	4.34
137 Ba	391.11	P	10.72	2.74
205 Tl	2348.89	P	38.63	1.64
208 Pb	3326.67	P	105.90	3.18
209 Bi	1312303.00	A	12540.00	0.96

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	988584.31	1.44	988199.56	100.0	80 - 120	

45	Sc	554806.63	0.62	562292.19	98.7	80 -	120
72	Ge	178790.89	0.50	180440.23	99.1	80 -	120
115	In	1341014.50	0.50	1368409.90	98.0	80 -	120
209	Bi	1312303.50	0.96	1333700.40	98.4	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\005CALI.D\005CALI.D#
Date Acquired: Mar 24 2006 03:52 pm
Operator:
Sample Name: CS2,S2890
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 03:48 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	983386.19	A	20930.00	2.13
9 Be	582.22	P	26.74	4.59
23 Na	341757.81	P	1515.00	0.44
26 Mg	28675.56	P	189.60	0.66
27 Al	10312.22	P	184.10	1.79
39 K	355686.69	P	1252.00	0.35
44 Ca	6701.30	P	215.50	3.22
45 Sc	554336.88	M	9431.00	1.70
51 V	2396.94	P	53.61	2.24
52 Cr	4232.22	P	26.94	0.64
55 Mn	3626.67	P	78.81	2.17
57 Fe	9024.44	P	150.20	1.66
59 Co	2808.89	P	123.60	4.40
60 Ni	833.33	P	49.10	5.89
65 Cu	1299.88	P	78.10	6.01
66 Zn	2240.97	P	59.66	2.66
72 Ge	178246.41	P	1375.00	0.77
75 As	486.77	P	125.60	25.80
82 Se	82.00	P	11.10	13.54
95 Mo	774.44	P	15.75	2.03
109 Ag	1952.22	P	67.52	3.46
111 Cd	746.83	P	54.02	7.23
115 In	1332685.00	A	9908.00	0.74
121 Sb	1911.11	P	45.01	2.36
137 Ba	764.44	P	25.24	3.30
205 Tl	4411.11	P	140.00	3.17
208 Pb	6561.11	P	36.57	0.56
209 Bi	1292847.00	A	16910.00	1.31

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	983386.19	2.13	988199.56	99.5	80 - 120	

45	Sc	554336.88	1.70	562292.19	98.6	80 - 120
72	Ge	178246.44	0.77	180440.23	98.8	80 - 120
115	In	1332685.30	0.74	1368409.90	97.4	80 - 120
209	Bi	1292846.90	1.31	1333700.40	96.9	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**

ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\006CALI.D\006CALI.D#
Date Acquired: Mar 24 2006 03:57 pm
Operator:
Sample Name: CS3,S2891
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 03:54 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	985103.31	A	8703.00	0.88
9 Be	1195.56	P	36.72	3.07
23 Na	688407.38	A	3988.00	0.58
26 Mg	57041.11	P	294.30	0.52
27 Al	13238.89	P	252.20	1.91
39 K	529102.19	P	763.10	0.14
44 Ca	11580.14	P	164.50	1.42
45 Sc	554111.13	P	3908.00	0.71
51 V	5051.42	P	449.10	8.89
52 Cr	6488.89	P	302.00	4.65
55 Mn	6868.89	P	209.40	3.05
57 Fe	15464.44	P	82.28	0.53
59 Co	5502.22	P	218.30	3.97
60 Ni	1495.56	P	40.05	2.68
65 Cu	2327.53	P	133.70	5.74
66 Zn	3024.16	P	25.46	0.84
72 Ge	180561.80	P	500.50	0.28
75 As	946.08	P	64.35	6.80
82 Se	125.78	P	16.52	13.13
95 Mo	1513.33	P	64.38	4.25
109 Ag	4044.44	P	156.90	3.88
111 Cd	1188.60	P	74.62	6.28
115 In	1334888.00	A	4909.00	0.37
121 Sb	3355.55	P	105.70	3.15
137 Ba	1280.00	P	47.26	3.69
205 Tl	8486.67	P	141.80	1.67
208 Pb	12502.22	P	158.10	1.26
209 Bi	1300466.00	A	6211.00	0.48

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	985103.31	0.88	988199.56	99.7	80 - 120	

45	Sc	554111.06	0.71	562292.19	98.5	80 -	120
72	Ge	180561.77	0.28	180440.23	100.1	80 -	120
115	In	1334887.50	0.37	1368409.90	97.6	80 -	120
209	Bi	1300466.30	0.48	1333700.40	97.5	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\007CALI.D\007CALI.D#
Date Acquired: Mar 24 2006 04:03 pm
Operator:
Sample Name: CS4,S2892
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 03:59 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	1013057.00	A	4024.00	0.40
9 Be	11861.11	P	195.00	1.64
23 Na	5832080.00	A	6041.00	0.10
26 Mg	566326.63	P	3938.00	0.70
27 Al	54172.22	P	546.60	1.01
39 K	3592013.00	A	32590.00	0.91
44 Ca	97328.51	P	309.90	0.32
45 Sc	552032.19	P	2550.00	0.46
51 V	43931.11	P	1029.00	2.34
52 Cr	41168.89	P	360.30	0.88
55 Mn	58915.55	P	361.00	0.61
57 Fe	128450.00	P	1593.00	1.24
59 Co	53722.22	P	576.60	1.07
60 Ni	12272.22	P	121.60	0.99
65 Cu	15954.22	P	391.80	2.46
66 Zn	11101.61	P	118.60	1.07
72 Ge	180956.00	P	1160.00	0.64
75 As	7441.71	P	66.56	0.89
82 Se	807.56	P	57.47	7.12
95 Mo	14624.44	P	99.13	0.68
109 Ag	39456.67	P	803.00	2.04
111 Cd	9067.72	P	165.20	1.82
115 In	1319021.00	A	9345.00	0.71
121 Sb	28952.22	P	399.00	1.38
137 Ba	11704.44	P	38.63	0.33
205 Tl	78612.22	P	2265.00	2.88
208 Pb	119622.20	P	721.70	0.60
209 Bi	1297106.00	A	16000.00	1.23

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1013056.60	0.40	988199.56	102.5	80 - 120	

45	Sc	552032.19	0.46	562292.19	98.2	80 - 120
72	Ge	180956.00	0.64	180440.23	100.3	80 - 120
115	In	1319021.30	0.71	1368409.90	96.4	80 - 120
209	Bi	1297106.00	1.23	1333700.40	97.3	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass

ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\008CALI.D\008CALI.D#
Date Acquired: Mar 24 2006 04:09 pm
Operator:
Sample Name: CS5,S2886
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 04:05 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	997164.81	A	7526.00	0.75
9	Be	117577.80	P	984.80	0.84
23	Na	55690040.00	A	264000.00	0.47
26	Mg	5606693.00	A	73650.00	1.31
27	Al	447697.69	P	891.30	0.20
39	K	32802080.00	A	398000.00	1.21
44	Ca	972650.31	A	8226.00	0.85
45	Sc	546950.00	P	9618.00	1.76
51	V	429694.59	P	3616.00	0.84
52	Cr	387310.00	P	2856.00	0.74
55	Mn	563601.13	P	5703.00	1.01
57	Fe	1277209.00	A	14640.00	1.15
59	Co	521696.59	P	6118.00	1.17
60	Ni	113996.70	P	552.30	0.48
65	Cu	140295.70	P	1531.00	1.09
66	Zn	87865.30	P	1053.00	1.20
72	Ge	178472.91	P	2302.00	1.29
75	As	71733.88	P	463.20	0.65
82	Se	7376.44	P	94.50	1.28
95	Mo	144456.70	P	655.50	0.45
109	Ag	374954.41	P	2785.00	0.74
111	Cd	82518.75	P	744.80	0.90
115	In	1276593.00	A	7314.00	0.57
121	Sb	262628.91	P	1502.00	0.57
137	Ba	113897.80	P	1607.00	1.41
205	Tl	814328.88	P	8399.00	1.03
208	Pb	1154651.00	P	12360.00	1.07
209	Bi	1220765.00	A	9341.00	0.77

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	997164.75	0.75	988199.56	100.9	80 - 120	

45	Sc	546950.00	1.76	562292.19	97.3	80 - 120
72	Ge	178472.89	1.29	180440.23	98.9	80 - 120
115	In	1276592.60	0.57	1368409.90	93.3	80 - 120
209	Bi	1220764.50	0.77	1333700.40	91.5	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\009CALI.D\009CALI.D#
Date Acquired: Mar 24 2006 04:14 pm
Operator:
Sample Name: CS6,S2887
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 04:10 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	969750.81	A	13270.00	1.37
9 Be	227935.50	P	2011.00	0.88
23 Na	109416300.00	A	1294000.00	1.18
26 Mg	10779680.00	A	214700.00	1.99
27 Al	897228.88	A	10640.00	1.19
39 K	63376860.00	A	47640.00	0.08
44 Ca	1918831.00	A	26230.00	1.37
45 Sc	547532.19	P	4418.00	0.81
51 V	878675.19	A	3703.00	0.42
52 Cr	760898.69	M	5958.00	0.78
55 Mn	1141159.00	A	20010.00	1.75
57 Fe	2482416.00	A	19690.00	0.79
59 Co	1047991.00	A	8862.00	0.85
60 Ni	221525.50	P	186.80	0.08
65 Cu	270644.00	P	960.70	0.35
66 Zn	165786.09	P	126.90	0.08
72 Ge	177688.00	P	688.10	0.39
75 As	141459.20	P	636.00	0.45
82 Se	14143.11	P	72.27	0.51
95 Mo	285186.69	P	476.60	0.17
109 Ag	727951.13	P	1026.00	0.14
111 Cd	158931.50	P	617.80	0.39
115 In	1239353.00	A	6776.00	0.55
121 Sb	505296.59	P	1214.00	0.24
137 Ba	224328.91	P	625.60	0.28
205 Tl	1646884.00	A	9703.00	0.59
208 Pb	2243062.00	A	8326.00	0.37
209 Bi	1188714.00	A	4321.00	0.36

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	969750.81	1.37	988199.56	98.1	80 - 120	

45	Sc	547532.19	0.81	562292.19	97.4	80 - 120
72	Ge	177688.00	0.39	180440.23	98.5	80 - 120
115	In	1239352.60	0.55	1368409.90	90.6	80 - 120
209	Bi	1188713.90	0.36	1333700.40	89.1	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449010 File : c2415010 Time : 24-MAR-2006 16:19
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2895

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	0.8730	0.4231	100.0	102.6	ug/L	3	10	
Antimony	0.1269	0.1074	100.0	105.1	ug/L	5	10	
Arsenic	0.2281	0.2052	100.0	102.8	ug/L	3	10	
Barium	0.0496	0.0462	100.0	102.3	ug/L	2	10	
Beryllium	0.0604	0.0600	100.0	102.0	ug/L	2	10	
Cadmium	0.3334	0.2329	100.0	103.3	ug/L	3	10	
Calcium	0.0098	0.0093	10000	10530	ug/L	5	10	
Chromium	1.4929	1.0962	100.0	101.9	ug/L	2	10	
Cobalt	1.5284	1.4811	100.0	100.6	ug/L	1	10	
Copper	0.5177	0.3977	100.0	103.6	ug/L	4	10	
Iron	0.0399	0.0366	10000	10410	ug/L	4	10	
Lead	0.4835	0.4753	100.0	100.7	ug/L	1	10	
Magnesium	0.0510	0.0521	10000	10500	ug/L	5	10	
Manganese	1.8374	1.5975	100.0	99.80	ug/L	0	10	
Molybdenum	0.4127	0.4099	100.0	101.9	ug/L	2	10	
Nickel	0.4149	0.3241	100.0	103.4	ug/L	3	10	
Potassium	0.4068	0.3080	10000	10540	ug/L	5	10	
Selenium	0.0287	0.0209	100.0	104.2	ug/L	4	10	
Silver	1.0912	1.0643	100.0	103.4	ug/L	3	10	
Sodium	0.5550	0.5247	10000	10460	ug/L	5	10	
Thallium	0.3301	0.3378	100.0	98.26	ug/L	-2	10	
Vanadium	1.2795	1.2206	100.0	99.18	ug/L	-1	10	
Zinc	0.5762	0.2498	100.0	105.3	ug/L	5	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	958842	-2.97
Scandium	562292	528272	-6.05
Germanium	180440	174083	-3.52
Indium	1368410	1218569	-10.95
Bismuth	1333700	1195887	-10.33

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449024 File : c2415024 Time : 24-MAR-2006 17:37
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.4129	150.0	151.0	ug/L	1	10	
Antimony	0.1269	0.0990	150.0	145.4	ug/L	-3	10	
Arsenic	0.2281	0.2000	150.0	150.4	ug/L	0	10	
Barium	0.0496	0.0446	150.0	148.2	ug/L	-1	10	
Beryllium	0.0604	0.0589	150.0	150.1	ug/L	0	10	
Cadmium	0.3334	0.2238	150.0	149.0	ug/L	-1	10	
Calcium	0.0098	0.0088	15000	14940	ug/L	0	10	
Chromium	1.4929	1.0549	150.0	147.3	ug/L	-2	10	
Cobalt	1.5284	1.4238	150.0	145.1	ug/L	-3	10	
Copper	0.5177	0.3830	150.0	149.8	ug/L	0	10	
Iron	0.0399	0.0346	15000	14780	ug/L	-1	10	
Lead	0.4835	0.4685	150.0	148.9	ug/L	-1	10	
Magnesium	0.0510	0.0498	15000	15070	ug/L	0	10	
Manganese	1.8374	1.5333	150.0	143.7	ug/L	-4	10	
Molybdenum	0.4127	0.3979	150.0	148.5	ug/L	-1	10	
Nickel	0.4149	0.3113	150.0	149.1	ug/L	-1	10	
Potassium	0.4068	0.2962	15000	15230	ug/L	2	10	
Selenium	0.0287	0.0204	150.0	152.6	ug/L	2	10	
Silver	1.0912	1.0203	150.0	148.6	ug/L	-1	10	
Sodium	0.5550	0.5002	15000	14960	ug/L	0	10	
Thallium	0.3301	0.3509	150.0	153.1	ug/L	2	10	
Vanadium	1.2795	1.1809	150.0	144.0	ug/L	-4	10	
Zinc	0.5762	0.2375	150.0	150.8	ug/L	1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	974542	-1.38
Scandium	562292	535254	-4.81
Germanium	180440	170147	-5.70
Indium	1368410	1196955	-12.53
Bismuth	1333700	1140941	-14.45

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449039 File : c2415039 Time : 24-MAR-2006 19:00
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.4015	150.0	146.8	ug/L	-2	10	
Antimony	0.1269	0.1007	150.0	147.8	ug/L	-1	10	
Arsenic	0.2281	0.2009	150.0	151.1	ug/L	1	10	
Barium	0.0496	0.0443	150.0	147.2	ug/L	-2	10	
Beryllium	0.0604	0.0584	150.0	149.1	ug/L	-1	10	
Cadmium	0.3334	0.2271	150.0	151.3	ug/L	1	10	
Calcium	0.0098	0.0089	15000	15250	ug/L	2	10	
Chromium	1.4929	1.0600	150.0	148.1	ug/L	-1	10	
Cobalt	1.5284	1.4254	150.0	145.3	ug/L	-3	10	
Copper	0.5177	0.3797	150.0	148.5	ug/L	-1	10	
Iron	0.0399	0.0347	15000	14850	ug/L	-1	10	
Lead	0.4835	0.4635	150.0	147.3	ug/L	-2	10	
Magnesium	0.0510	0.0503	15000	15200	ug/L	1	10	
Manganese	1.8374	1.5394	150.0	144.3	ug/L	-4	10	
Molybdenum	0.4127	0.4016	150.0	149.8	ug/L	0	10	
Nickel	0.4149	0.3094	150.0	148.1	ug/L	-1	10	
Potassium	0.4068	0.3002	15000	15440	ug/L	3	10	
Selenium	0.0287	0.0204	150.0	152.2	ug/L	1	10	
Silver	1.0912	1.0257	150.0	149.4	ug/L	0	10	
Sodium	0.5550	0.5050	15000	15100	ug/L	1	10	
Thallium	0.3301	0.3447	150.0	150.4	ug/L	0	10	
Vanadium	1.2795	1.1903	150.0	145.2	ug/L	-3	10	
Zinc	0.5762	0.2357	150.0	149.7	ug/L	0	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	953180	-3.54
Scandium	562292	509681	-9.36
Germanium	180440	163182	-9.56
Indium	1368410	1155967	-15.52
Bismuth	1333700	1119152	-16.09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449053 File : c2415053 Time : 24-MAR-2006 20:18
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.4036	150.0	147.6	ug/L	-2	10	
Antimony	0.1269	0.1014	150.0	149.0	ug/L	-1	10	
Arsenic	0.2281	0.1989	150.0	149.6	ug/L	0	10	
Barium	0.0496	0.0447	150.0	148.7	ug/L	-1	10	
Beryllium	0.0604	0.0579	150.0	147.6	ug/L	-2	10	
Cadmium	0.3334	0.2257	150.0	150.3	ug/L	0	10	
Calcium	0.0098	0.0090	15000	15330	ug/L	2	10	
Chromium	1.4929	1.0611	150.0	148.2	ug/L	-1	10	
Cobalt	1.5284	1.4204	150.0	144.8	ug/L	-3	10	
Copper	0.5177	0.3793	150.0	148.4	ug/L	-1	10	
Iron	0.0399	0.0351	15000	15010	ug/L	0	10	
Lead	0.4835	0.4670	150.0	148.4	ug/L	-1	10	
Magnesium	0.0510	0.0501	15000	15140	ug/L	1	10	
Manganese	1.8374	1.5439	150.0	144.7	ug/L	-4	10	
Molybdenum	0.4127	0.4017	150.0	149.9	ug/L	0	10	
Nickel	0.4149	0.3087	150.0	147.8	ug/L	-1	10	
Potassium	0.4068	0.2959	15000	15220	ug/L	1	10	
Selenium	0.0287	0.0201	150.0	150.3	ug/L	0	10	
Silver	1.0912	1.0297	150.0	150.0	ug/L	0	10	
Sodium	0.5550	0.5104	15000	15260	ug/L	2	10	
Thallium	0.3301	0.3480	150.0	151.9	ug/L	1	10	
Vanadium	1.2795	1.1920	150.0	145.4	ug/L	-3	10	
Zinc	0.5762	0.2370	150.0	150.5	ug/L	0	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	938741	-5.00
Scandium	562292	499396	-11.19
Germanium	180440	159991	-11.33
Indium	1368410	1139949	-16.70
Bismuth	1333700	1112291	-16.60

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449069 File : c2415069 Time : 24-MAR-2006 21:46
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3905	150.0	142.7	ug/L	-5	10	
Antimony	0.1269	0.1011	150.0	148.5	ug/L	-1	10	
Arsenic	0.2281	0.2001	150.0	150.5	ug/L	0	10	
Barium	0.0496	0.0442	150.0	147.0	ug/L	-2	10	
Beryllium	0.0604	0.0589	150.0	150.2	ug/L	0	10	
Cadmium	0.3334	0.2261	150.0	150.6	ug/L	0	10	
Calcium	0.0098	0.0089	15000	15210	ug/L	1	10	
Chromium	1.4929	1.0480	150.0	146.4	ug/L	-2	10	
Cobalt	1.5284	1.4064	150.0	143.3	ug/L	-4	10	
Copper	0.5177	0.3769	150.0	147.4	ug/L	-2	10	
Iron	0.0399	0.0347	15000	14840	ug/L	-1	10	
Lead	0.4835	0.4577	150.0	145.5	ug/L	-3	10	
Magnesium	0.0510	0.0493	15000	14910	ug/L	-1	10	
Manganese	1.8374	1.5318	150.0	143.6	ug/L	-4	10	
Molybdenum	0.4127	0.4024	150.0	150.2	ug/L	0	10	
Nickel	0.4149	0.3087	150.0	147.8	ug/L	-1	10	
Potassium	0.4068	0.2976	15000	15310	ug/L	2	10	
Selenium	0.0287	0.0204	150.0	152.2	ug/L	1	10	
Silver	1.0912	1.0257	150.0	149.4	ug/L	0	10	
Sodium	0.5550	0.4976	15000	14880	ug/L	-1	10	
Thallium	0.3301	0.3441	150.0	150.2	ug/L	0	10	
Vanadium	1.2795	1.1868	150.0	144.7	ug/L	-4	10	
Zinc	0.5762	0.2343	150.0	148.8	ug/L	-1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	867540	-12.21
Scandium	562292	477594	-15.06
Germanium	180440	152734	-15.35
Indium	1368410	1090823	-20.29
Bismuth	1333700	1069936	-19.78

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449083 File : c2415083 Time : 24-MAR-2006 23:04
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3890	150.0	142.2	ug/L	-5	10	
Antimony	0.1269	0.1006	150.0	147.7	ug/L	-2	10	
Arsenic	0.2281	0.2005	150.0	150.8	ug/L	1	10	
Barium	0.0496	0.0442	150.0	146.9	ug/L	-2	10	
Beryllium	0.0604	0.0578	150.0	147.5	ug/L	-2	10	
Cadmium	0.3334	0.2266	150.0	151.0	ug/L	1	10	
Calcium	0.0098	0.0088	15000	14980	ug/L	0	10	
Chromium	1.4929	1.0475	150.0	146.3	ug/L	-2	10	
Cobalt	1.5284	1.4041	150.0	143.1	ug/L	-5	10	
Copper	0.5177	0.3773	150.0	147.6	ug/L	-2	10	
Iron	0.0399	0.0349	15000	14930	ug/L	0	10	
Lead	0.4835	0.4601	150.0	146.2	ug/L	-3	10	
Magnesium	0.0510	0.0489	15000	14770	ug/L	-2	10	
Manganese	1.8374	1.5247	150.0	142.9	ug/L	-5	10	
Molybdenum	0.4127	0.4026	150.0	150.2	ug/L	0	10	
Nickel	0.4149	0.3090	150.0	147.9	ug/L	-1	10	
Potassium	0.4068	0.2930	15000	15070	ug/L	0	10	
Selenium	0.0287	0.0205	150.0	153.0	ug/L	2	10	
Silver	1.0912	1.0286	150.0	149.9	ug/L	0	10	
Sodium	0.5550	0.4899	15000	14650	ug/L	-2	10	
Thallium	0.3301	0.3434	150.0	149.9	ug/L	0	10	
Vanadium	1.2795	1.1846	150.0	144.5	ug/L	-4	10	
Zinc	0.5762	0.2341	150.0	148.7	ug/L	-1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	864072	-12.56
Scandium	562292	469597	-16.49
Germanium	180440	149631	-17.07
Indium	1368410	1083146	-20.85
Bismuth	1333700	1052352	-21.10

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449097 File : c2415097 Time : 25-MAR-2006 00:22
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3725	150.0	136.1	ug/L	-9	10	
Antimony	0.1269	0.0981	150.0	144.0	ug/L	-4	10	
Arsenic	0.2281	0.1963	150.0	147.7	ug/L	-2	10	
Barium	0.0496	0.0433	150.0	144.0	ug/L	-4	10	
Beryllium	0.0604	0.0564	150.0	143.9	ug/L	-4	10	
Cadmium	0.3334	0.2281	150.0	152.0	ug/L	1	10	
Calcium	0.0098	0.0087	15000	14830	ug/L	-1	10	
Chromium	1.4929	1.0532	150.0	147.1	ug/L	-2	10	
Cobalt	1.5284	1.4082	150.0	143.5	ug/L	-4	10	
Copper	0.5177	0.3704	150.0	144.9	ug/L	-3	10	
Iron	0.0399	0.0350	15000	14960	ug/L	0	10	
Lead	0.4835	0.4510	150.0	143.3	ug/L	-4	10	
Magnesium	0.0510	0.0470	15000	14210	ug/L	-5	10	
Manganese	1.8374	1.5455	150.0	144.9	ug/L	-3	10	
Molybdenum	0.4127	0.3955	150.0	147.6	ug/L	-2	10	
Nickel	0.4149	0.3040	150.0	145.5	ug/L	-3	10	
Potassium	0.4068	0.2874	15000	14780	ug/L	-1	10	
Selenium	0.0287	0.0202	150.0	150.8	ug/L	1	10	
Silver	1.0912	1.0216	150.0	148.8	ug/L	-1	10	
Sodium	0.5550	0.4786	15000	14310	ug/L	-5	10	
Thallium	0.3301	0.3353	150.0	146.3	ug/L	-2	10	
Vanadium	1.2795	1.1797	150.0	143.9	ug/L	-4	10	
Zinc	0.5762	0.2328	150.0	147.8	ug/L	-1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	850311	-13.95
Scandium	562292	475066	-15.51
Germanium	180440	150588	-16.54
Indium	1368410	1119011	-18.23
Bismuth	1333700	1086373	-18.54

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449107 File : c2415107 Time : 25-MAR-2006 01:18
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3939	150.0	144.0	ug/L	-4	10	
Antimony	0.1269	0.1003	150.0	147.3	ug/L	-2	10	
Arsenic	0.2281	0.1975	150.0	148.5	ug/L	-1	10	
Barium	0.0496	0.0443	150.0	147.4	ug/L	-2	10	
Beryllium	0.0604	0.0568	150.0	144.8	ug/L	-3	10	
Cadmium	0.3334	0.2281	150.0	151.9	ug/L	1	10	
Calcium	0.0098	0.0089	15000	15180	ug/L	1	10	
Chromium	1.4929	1.0646	150.0	148.7	ug/L	-1	10	
Cobalt	1.5284	1.4165	150.0	144.4	ug/L	-4	10	
Copper	0.5177	0.3741	150.0	146.3	ug/L	-2	10	
Iron	0.0399	0.0350	15000	14970	ug/L	0	10	
Lead	0.4835	0.4613	150.0	146.6	ug/L	-2	10	
Magnesium	0.0510	0.0486	15000	14680	ug/L	-2	10	
Manganese	1.8374	1.5548	150.0	145.7	ug/L	-3	10	
Molybdenum	0.4127	0.4007	150.0	149.5	ug/L	0	10	
Nickel	0.4149	0.3090	150.0	147.9	ug/L	-1	10	
Potassium	0.4068	0.2900	15000	14910	ug/L	-1	10	
Selenium	0.0287	0.0205	150.0	153.2	ug/L	2	10	
Silver	1.0912	1.0347	150.0	150.7	ug/L	0	10	
Sodium	0.5550	0.4900	15000	14650	ug/L	-2	10	
Thallium	0.3301	0.3535	150.0	154.3	ug/L	3	10	
Vanadium	1.2795	1.1929	150.0	145.5	ug/L	-3	10	
Zinc	0.5762	0.2366	150.0	150.3	ug/L	0	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	839407	-15.06
Scandium	562292	458026	-18.54
Germanium	180440	146831	-18.63
Indium	1368410	1077183	-21.28
Bismuth	1333700	1042410	-21.84

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449121 File : c2415121 Time : 25-MAR-2006 02:35
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3883	150.0	141.9	ug/L	-5	10	
Antimony	0.1269	0.1005	150.0	147.6	ug/L	-2	10	
Arsenic	0.2281	0.2013	150.0	151.4	ug/L	1	10	
Barium	0.0496	0.0444	150.0	147.6	ug/L	-2	10	
Beryllium	0.0604	0.0572	150.0	145.8	ug/L	-3	10	
Cadmium	0.3334	0.2289	150.0	152.4	ug/L	2	10	
Calcium	0.0098	0.0090	15000	15330	ug/L	2	10	
Chromium	1.4929	1.0671	150.0	149.0	ug/L	-1	10	
Cobalt	1.5284	1.4221	150.0	144.9	ug/L	-3	10	
Copper	0.5177	0.3755	150.0	146.9	ug/L	-2	10	
Iron	0.0399	0.0353	15000	15110	ug/L	1	10	
Lead	0.4835	0.4629	150.0	147.1	ug/L	-2	10	
Magnesium	0.0510	0.0490	15000	14810	ug/L	-1	10	
Manganese	1.8374	1.5638	150.0	146.6	ug/L	-2	10	
Molybdenum	0.4127	0.4017	150.0	149.9	ug/L	0	10	
Nickel	0.4149	0.3077	150.0	147.3	ug/L	-2	10	
Potassium	0.4068	0.2977	15000	15310	ug/L	2	10	
Selenium	0.0287	0.0208	150.0	155.6	ug/L	4	10	
Silver	1.0912	1.0362	150.0	151.0	ug/L	1	10	
Sodium	0.5550	0.4969	15000	14860	ug/L	-1	10	
Thallium	0.3301	0.3483	150.0	152.0	ug/L	1	10	
Vanadium	1.2795	1.2049	150.0	147.0	ug/L	-2	10	
Zinc	0.5762	0.2378	150.0	151.1	ug/L	1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	806356	-18.40
Scandium	562292	440073	-21.74
Germanium	180440	142136	-21.23
Indium	1368410	1039855	-24.01
Bismuth	1333700	1008839	-24.36

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449133 File : c2415133 Time : 25-MAR-2006 03:42
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.4002	150.0	146.3	ug/L	-2	10	
Antimony	0.1269	0.1023	150.0	150.3	ug/L	0	10	
Arsenic	0.2281	0.2028	150.0	152.5	ug/L	2	10	
Barium	0.0496	0.0449	150.0	149.4	ug/L	0	10	
Beryllium	0.0604	0.0581	150.0	148.2	ug/L	-1	10	
Cadmium	0.3334	0.2332	150.0	155.3	ug/L	4	10	
Calcium	0.0098	0.0091	15000	15600	ug/L	4	10	
Chromium	1.4929	1.0854	150.0	151.6	ug/L	1	10	
Cobalt	1.5284	1.4355	150.0	146.3	ug/L	-2	10	
Copper	0.5177	0.3813	150.0	149.2	ug/L	-1	10	
Iron	0.0399	0.0356	15000	15210	ug/L	1	10	
Lead	0.4835	0.4738	150.0	150.6	ug/L	0	10	
Magnesium	0.0510	0.0499	15000	15090	ug/L	1	10	
Manganese	1.8374	1.5904	150.0	149.1	ug/L	-1	10	
Molybdenum	0.4127	0.4100	150.0	153.0	ug/L	2	10	
Nickel	0.4149	0.3117	150.0	149.2	ug/L	-1	10	
Potassium	0.4068	0.2973	15000	15290	ug/L	2	10	
Selenium	0.0287	0.0209	150.0	156.3	ug/L	4	10	
Silver	1.0912	1.0499	150.0	153.0	ug/L	2	10	
Sodium	0.5550	0.4993	15000	14930	ug/L	0	10	
Thallium	0.3301	0.3542	150.0	154.6	ug/L	3	10	
Vanadium	1.2795	1.2217	150.0	149.0	ug/L	-1	10	
Zinc	0.5762	0.2396	150.0	152.2	ug/L	1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	813402	-17.69
Scandium	562292	443206	-21.18
Germanium	180440	140547	-22.11
Indium	1368410	1028681	-24.83
Bismuth	1333700	979894	-26.53

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449148 File : c2415148 Time : 25-MAR-2006 05:06
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3917	150.0	143.2	ug/L	-5	10	
Antimony	0.1269	0.0989	150.0	145.3	ug/L	-3	10	
Arsenic	0.2281	0.1986	150.0	149.4	ug/L	0	10	
Barium	0.0496	0.0436	150.0	144.8	ug/L	-3	10	
Beryllium	0.0604	0.0570	150.0	145.3	ug/L	-3	10	
Cadmium	0.3334	0.2187	150.0	145.6	ug/L	-3	10	
Calcium	0.0098	0.0089	15000	15150	ug/L	1	10	
Chromium	1.4929	1.0417	150.0	145.5	ug/L	-3	10	
Cobalt	1.5284	1.3878	150.0	141.4	ug/L	-6	10	
Copper	0.5177	0.3702	150.0	144.8	ug/L	-3	10	
Iron	0.0399	0.0343	15000	14670	ug/L	-2	10	
Lead	0.4835	0.4544	150.0	144.4	ug/L	-4	10	
Magnesium	0.0510	0.0482	15000	14580	ug/L	-3	10	
Manganese	1.8374	1.5022	150.0	140.8	ug/L	-6	10	
Molybdenum	0.4127	0.3937	150.0	146.9	ug/L	-2	10	
Nickel	0.4149	0.3045	150.0	145.8	ug/L	-3	10	
Potassium	0.4068	0.2967	15000	15260	ug/L	2	10	
Selenium	0.0287	0.0202	150.0	151.2	ug/L	1	10	
Silver	1.0912	1.0035	150.0	146.2	ug/L	-3	10	
Sodium	0.5550	0.4853	15000	14510	ug/L	-3	10	
Thallium	0.3301	0.3384	150.0	147.7	ug/L	-2	10	
Vanadium	1.2795	1.1779	150.0	143.7	ug/L	-4	10	
Zinc	0.5762	0.2275	150.0	144.4	ug/L	-4	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	898686	-9.06
Scandium	562292	474239	-15.66
Germanium	180440	147941	-18.01
Indium	1368410	1054434	-22.94
Bismuth	1333700	995910	-25.33

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449159 File : c2415159 Time : 25-MAR-2006 06:07
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3671	150.0	134.1	ug/L	**-11**	10	c- ***
Antimony	0.1269	0.0996	150.0	146.3	ug/L	-2	10	
Arsenic	0.2281	0.1981	150.0	149.0	ug/L	-1	10	
Barium	0.0496	0.0438	150.0	145.5	ug/L	-3	10	
Beryllium	0.0604	0.0577	150.0	147.1	ug/L	-2	10	
Cadmium	0.3334	0.2272	150.0	151.3	ug/L	1	10	
Calcium	0.0098	0.0086	15000	14640	ug/L	-2	10	
Chromium	1.4929	1.0198	150.0	142.4	ug/L	-5	10	
Cobalt	1.5284	1.3679	150.0	139.4	ug/L	-7	10	
Copper	0.5177	0.3644	150.0	142.5	ug/L	-5	10	
Iron	0.0399	0.0340	15000	14550	ug/L	-3	10	
Lead	0.4835	0.4497	150.0	142.9	ug/L	-5	10	
Magnesium	0.0510	0.0461	15000	13920	ug/L	-7	10	
Manganese	1.8374	1.5032	150.0	140.9	ug/L	-6	10	
Molybdenum	0.4127	0.4016	150.0	149.9	ug/L	0	10	
Nickel	0.4149	0.2968	150.0	142.1	ug/L	-5	10	
Potassium	0.4068	0.2839	15000	14600	ug/L	-3	10	
Selenium	0.0287	0.0204	150.0	152.9	ug/L	2	10	
Silver	1.0912	1.0218	150.0	148.9	ug/L	-1	10	
Sodium	0.5550	0.4623	15000	13820	ug/L	-8	10	
Thallium	0.3301	0.3353	150.0	146.3	ug/L	-2	10	
Vanadium	1.2795	1.1558	150.0	141.0	ug/L	-6	10	
Zinc	0.5762	0.2281	150.0	144.8	ug/L	-3	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	836473	-15.35
Scandium	562292	493671	-12.20
Germanium	180440	155900	-13.60
Indium	1368410	1140911	-16.63
Bismuth	1333700	1105121	-17.14

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449174 File : c2415174 Time : 25-MAR-2006 07:30
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3870	150.0	141.5	ug/L	-6	10	
Antimony	0.1269	0.0985	150.0	144.7	ug/L	-4	10	
Arsenic	0.2281	0.1978	150.0	148.8	ug/L	-1	10	
Barium	0.0496	0.0429	150.0	142.5	ug/L	-5	10	
Beryllium	0.0604	0.0570	150.0	145.5	ug/L	-3	10	
Cadmium	0.3334	0.2174	150.0	144.8	ug/L	-3	10	
Calcium	0.0098	0.0086	15000	14760	ug/L	-2	10	
Chromium	1.4929	1.0685	150.0	149.2	ug/L	-1	10	
Cobalt	1.5284	1.4105	150.0	143.7	ug/L	-4	10	
Copper	0.5177	0.3731	150.0	145.9	ug/L	-3	10	
Iron	0.0399	0.0347	15000	14830	ug/L	-1	10	
Lead	0.4835	0.4532	150.0	144.1	ug/L	-4	10	
Magnesium	0.0510	0.0478	15000	14460	ug/L	-4	10	
Manganese	1.8374	1.5356	150.0	143.9	ug/L	-4	10	
Molybdenum	0.4127	0.3941	150.0	147.1	ug/L	-2	10	
Nickel	0.4149	0.3076	150.0	147.3	ug/L	-2	10	
Potassium	0.4068	0.2871	15000	14760	ug/L	-2	10	
Selenium	0.0287	0.0200	150.0	149.5	ug/L	0	10	
Silver	1.0912	0.9902	150.0	144.3	ug/L	-4	10	
Sodium	0.5550	0.4764	15000	14240	ug/L	-5	10	
Thallium	0.3301	0.3207	150.0	140.0	ug/L	-7	10	
Vanadium	1.2795	1.2039	150.0	146.8	ug/L	-2	10	
Zinc	0.5762	0.2293	150.0	145.6	ug/L	-3	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	892339	-9.70
Scandium	562292	468084	-16.75
Germanium	180440	138839	-23.06
Indium	1368410	979740	-28.40
Bismuth	1333700	906100	-32.06

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449185 File : c2415185 Time : 25-MAR-2006 08:33
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3405	150.0	124.3	ug/L	**-17**	10	c- i+ ***
Antimony	0.1269	0.0964	150.0	141.6	ug/L	-6	10	
Arsenic	0.2281	0.1995	150.0	150.0	ug/L	0	10	
Barium	0.0496	0.0409	150.0	135.8	ug/L	-9	10	
Beryllium	0.0604	0.0601	150.0	153.4	ug/L	2	10	
Cadmium	0.3334	0.2280	150.0	151.9	ug/L	1	10	
Calcium	0.0098	0.0086	15000	14630	ug/L	-2	10	i+
Chromium	1.4929	1.1388	150.0	159.1	ug/L	6	10	
Cobalt	1.5284	1.4081	150.0	143.5	ug/L	-4	10	
Copper	0.5177	0.3658	150.0	143.1	ug/L	-5	10	
Iron	0.0399	0.0347	15000	14830	ug/L	-1	10	
Lead	0.4835	0.4466	150.0	141.9	ug/L	-5	10	
Magnesium	0.0510	0.0410	15000	12400	ug/L	**-17**	10	c- i+ ***
Manganese	1.8374	1.6208	150.0	151.9	ug/L	1	10	
Molybdenum	0.4127	0.4100	150.0	153.0	ug/L	2	10	
Nickel	0.4149	0.2971	150.0	142.2	ug/L	-5	10	
Potassium	0.4068	0.2821	15000	14510	ug/L	-3	10	i+
Selenium	0.0287	0.0207	150.0	154.7	ug/L	3	10	
Silver	1.0912	1.0584	150.0	154.2	ug/L	3	10	
Sodium	0.5550	0.3972	15000	11880	ug/L	**-21**	10	c- i+ ***
Thallium	0.3301	0.3256	150.0	142.1	ug/L	-5	10	
Vanadium	1.2795	1.3269	150.0	161.9	ug/L	8	10	
Zinc	0.5762	0.2281	150.0	144.8	ug/L	-3	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	1069484	8.23
Scandium	562292	756141	**34.47 ***
Germanium	180440	185899	3.03
Indium	1368410	1355459	-0.95
Bismuth	1333700	1186577	-11.03

+=high bias -=low bias c=CCV i=ISTD failure

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449012 File : c2415012 Time : 24-MAR-2006 16:30
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	0.2605	0.2500	0.03394	ug/L	ib ***
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	[0.04645]	0.2500	0.04566	ug/L	!ib
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.02192]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.07448]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	[0.2087]	1.000	0.09577	ug/L	!ib

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	969137	-1.93
Scandium	562292	523398	-6.92
Germanium	180440	172708	-4.29
Indium	1368410	1267032	-7.41
Bismuth	1333700	1243505	-6.76

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449041 File : c2415041 Time : 24-MAR-2006 19:11
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1722]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	[0.04493]	0.5000	0.04426	ug/L	!ib
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.08621]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	942974	-4.58
Scandium	562292	497013	-11.61
Germanium	180440	160729	-10.92
Indium	1368410	1193739	-12.76
Bismuth	1333700	1163252	-12.78

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449055 File : c2415055 Time : 24-MAR-2006 20:29
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1501]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.03973]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	948372	-4.03
Scandium	562292	501028	-10.90
Germanium	180440	161896	-10.28
Indium	1368410	1226800	-10.35
Bismuth	1333700	1216616	-8.78

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449071 File : c2415071 Time : 24-MAR-2006 21:57
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1124]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.2096]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2627]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1469]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	892991	-9.63
Scandium	562292	474552	-15.60
Germanium	180440	152380	-15.55
Indium	1368410	1132829	-17.22
Bismuth	1333700	1123713	-15.74

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449085 File : c2415085 Time : 24-MAR-2006 23:15
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.09912]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1488]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1119]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	872491	-11.71
Scandium	562292	466362	-17.06
Germanium	180440	149948	-16.90
Indium	1368410	1134348	-17.10
Bismuth	1333700	1121464	-15.91

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449099 File : c2415099 Time : 25-MAR-2006 00:34
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1144]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.05505]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	839745	-15.02
Scandium	562292	456637	-18.79
Germanium	180440	148479	-17.71
Indium	1368410	1142762	-16.49
Bismuth	1333700	1144155	-14.21

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449109 File : c2415109 Time : 25-MAR-2006 01:29
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1195]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1052]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.007220]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.01906]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2311]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	841646	-14.83
Scandium	562292	456716	-18.78
Germanium	180440	146645	-18.73
Indium	1368410	1137654	-16.86
Bismuth	1333700	1126462	-15.54

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449123 File : c2415123 Time : 25-MAR-2006 02:46
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1115]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.008805]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.03841]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1190]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	830886	-15.92
Scandium	562292	449947	-19.98
Germanium	180440	144623	-19.85
Indium	1368410	1113418	-18.63
Bismuth	1333700	1102799	-17.31

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449135 File : c2415135 Time : 25-MAR-2006 03:53
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1473]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1323]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01136]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.06042]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2067]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.07285]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	841360	-14.86
Scandium	562292	445097	-20.84
Germanium	180440	143634	-20.40
Indium	1368410	1086631	-20.59
Bismuth	1333700	1083950	-18.73

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449150 File : c2415150 Time : 25-MAR-2006 05:17
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.07915]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.007527]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.03594]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.01483]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.05427]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	928026	-6.09
Scandium	562292	470981	-16.24
Germanium	180440	147653	-18.17
Indium	1368410	1106829	-19.12
Bismuth	1333700	1054733	-20.92

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449161 File : c2415161 Time : 25-MAR-2006 06:18
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.08556]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.01170]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.009293]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.02352]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.04556]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	838678	-15.13
Scandium	562292	505026	-10.18
Germanium	180440	161662	-10.41
Indium	1368410	1282761	-6.26
Bismuth	1333700	1249274	-6.33

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449176 File : c2415176 Time : 25-MAR-2006 07:41
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.09663]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.2578]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.008511]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.1183]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.04145]	0.2500	0.03982	ug/L	!ib
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2884]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.04804]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	877911	-11.16
Scandium	562292	451821	-19.65
Germanium	180440	137616	-23.73
Indium	1368410	1006582	-26.44
Bismuth	1333700	945762	-29.09

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449187 File : c2415187 Time : 25-MAR-2006 08:44
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.07775]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.006321]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.02567]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.03935]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	867621	-12.20
Scandium	562292	468086	-16.75
Germanium	180440	141351	-21.66
Indium	1368410	1068398	-21.92
Bismuth	1333700	1040296	-22.00

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CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449013 File : c2415013 Time : 24-MAR-2006 16:36
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.628	0.2500	ug/L	
Arsenic	0.6180	0.5000	ug/L	
Barium	0.9755	0.2500	ug/L	
Beryllium	[0.02031]	0.2500	ug/L	
Cadmium	[0.2247]	0.2500	ug/L	
Chromium	1.583	0.5000	ug/L	
Cobalt	2.963	0.2500	ug/L	
Copper	1.898	0.5000	ug/L	
Lead	1.286	0.2500	ug/L	
Manganese	1.091	0.2500	ug/L	
Nickel	1.635	0.2500	ug/L	
Selenium	[0.3064]	0.5000	ug/L	
Silver	[0.1484]	0.2500	ug/L	
Thallium	[0.1047]	0.5000	ug/L	
Vanadium	[0.1847]	1.000	ug/L	
Zinc	2.174	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	85760	ug/L	86
Calcium	300000	291300	ug/L	97
Iron	250000	262300	ug/L	105
Magnesium	100000	90810	ug/L	91
Molybdenum	2000	2215	ug/L	111
Potassium	100000	91870	ug/L	92
Sodium	250000	229400	ug/L	92

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	779542	-21.11
Scandium	562292	491304	-12.62
Germanium	180440	146225	-18.96
Indium	1368410	1095335	-19.96
Bismuth	1333700	938748	-29.61

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449014 File : c2415014 Time : 24-MAR-2006 16:41
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	81420	ug/L	-19		
Arsenic	100.0	95.70	ug/L	-4	20	
Cadmium	100.0	91.22	ug/L	-9	20	
Calcium	300000	290600	ug/L	-3		
Chromium	200.0	217.6	ug/L	9	20	
Cobalt	200.0	209.5	ug/L	5	20	
Copper	200.0	181.4	ug/L	-9	20	
Iron	250000	263500	ug/L	5		
Magnesium	100000	86490	ug/L	-14		
Manganese	200.0	222.3	ug/L	11	20	
Molybdenum	2000	2189	ug/L	9		
Nickel	200.0	192.6	ug/L	-4	20	
Potassium	100000	89750	ug/L	-10		
Selenium	100.0	87.46	ug/L	-13	20	
Silver	50.00	47.12	ug/L	-6	20	
Sodium	250000	220400	ug/L	-12		
Vanadium	200.0	227.4	ug/L	14	20	
Zinc	100.0	90.57	ug/L	-9	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	491567	-12.58
Germanium	180440	144551	-19.89

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449056 File : c2415056 Time : 24-MAR-2006 20:34
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.333	0.2500	ug/L	
Arsenic	0.7648	0.5000	ug/L	
Barium	0.9834	0.2500	ug/L	
Beryllium	[0.01236]	0.2500	ug/L	
Cadmium	[0.1918]	0.2500	ug/L	
Chromium	1.467	0.5000	ug/L	
Cobalt	2.837	0.2500	ug/L	
Copper	1.800	0.5000	ug/L	
Lead	1.307	0.2500	ug/L	
Manganese	1.013	0.2500	ug/L	
Nickel	1.565	0.2500	ug/L	
Selenium	[0.1911]	0.5000	ug/L	
Silver	[0.1340]	0.2500	ug/L	
Thallium	[0.06724]	0.5000	ug/L	
Vanadium	[0.1649]	1.000	ug/L	
Zinc	2.011	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	85760	ug/L	86
Calcium	300000	284700	ug/L	95
Iron	250000	247600	ug/L	99
Magnesium	100000	90640	ug/L	91
Molybdenum	2000	2176	ug/L	109
Potassium	100000	92900	ug/L	93
Sodium	250000	226200	ug/L	90

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	754441	-23.65
Scandium	562292	444889	-20.88
Germanium	180440	133804	-25.85
Indium	1368410	996236	-27.20
Bismuth	1333700	855786	-35.83

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449057 File : c2415057 Time : 24-MAR-2006 20:40
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	81230	ug/L	-19		
Arsenic	100.0	91.39	ug/L	-9	20	
Cadmium	100.0	86.66	ug/L	-13	20	
Calcium	300000	279400	ug/L	-7		
Chromium	200.0	200.7	ug/L	0	20	
Cobalt	200.0	187.8	ug/L	-6	20	
Copper	200.0	171.1	ug/L	-14	20	
Iron	250000	244000	ug/L	-2		
Magnesium	100000	85230	ug/L	-15		
Manganese	200.0	206.9	ug/L	3	20	
Molybdenum	2000	2126	ug/L	6		
Nickel	200.0	181.6	ug/L	-9	20	
Potassium	100000	88390	ug/L	-12		
Selenium	100.0	85.02	ug/L	-15	20	
Silver	50.00	44.61	ug/L	-11	20	
Sodium	250000	216700	ug/L	-13		
Vanadium	200.0	201.6	ug/L	1	20	
Zinc	100.0	85.22	ug/L	-15	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	446714	-20.55
Germanium	180440	133306	-26.12

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449137 File : c2415137 Time : 25-MAR-2006 04:05
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.347	0.2500	ug/L	
Arsenic	[0.3882]	0.5000	ug/L	
Barium	1.062	0.2500	ug/L	
Beryllium	[0.01946]	0.2500	ug/L	
Cadmium	[0.08500]	0.2500	ug/L	
Chromium	1.613	0.5000	ug/L	
Cobalt	2.924	0.2500	ug/L	
Copper	1.893	0.5000	ug/L	
Lead	1.282	0.2500	ug/L	
Manganese	1.061	0.2500	ug/L	
Nickel	1.579	0.2500	ug/L	
Selenium	[0.2680]	0.5000	ug/L	
Silver	[0.1405]	0.2500	ug/L	
Thallium	[0.1109]	0.5000	ug/L	
Vanadium	[0.2904]	1.000	ug/L	
Zinc	2.062	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	84650	ug/L	85
Calcium	300000	290700	ug/L	97
Iron	250000	248700	ug/L	99
Magnesium	100000	89140	ug/L	89
Molybdenum	2000	2186	ug/L	109
Potassium	100000	93300	ug/L	93
Sodium	250000	223400	ug/L	89

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	674836	-31.71
Scandium	562292	406723	-27.67
Germanium	180440	121976	-32.40
Indium	1368410	887703	-35.13
Bismuth	1333700	772371	-42.09

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449138 File : c2415138 Time : 25-MAR-2006 04:10
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	83500	ug/L	-17		
Arsenic	100.0	93.87	ug/L	-6	20	
Cadmium	100.0	86.67	ug/L	-13	20	
Calcium	300000	289100	ug/L	-4		
Chromium	200.0	203.9	ug/L	2	20	
Cobalt	200.0	190.0	ug/L	-5	20	
Copper	200.0	174.2	ug/L	-13	20	
Iron	250000	246800	ug/L	-1		
Magnesium	100000	87450	ug/L	-13		
Manganese	200.0	203.0	ug/L	2	20	
Molybdenum	2000	2178	ug/L	9		
Nickel	200.0	183.6	ug/L	-8	20	
Potassium	100000	93050	ug/L	-7		
Selenium	100.0	87.45	ug/L	-13	20	
Silver	50.00	44.81	ug/L	-10	20	
Sodium	250000	221000	ug/L	-12		
Vanadium	200.0	205.7	ug/L	3	20	
Zinc	100.0	88.10	ug/L	-12	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	397591	-29.29
Germanium	180440	118801	-34.16

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449162 File : c2415162 Time : 25-MAR-2006 06:24
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.433	0.2500	ug/L	
Arsenic	[0.4828]	0.5000	ug/L	
Barium	1.070	0.2500	ug/L	
Beryllium	[0.005177]	0.2500	ug/L	
Cadmium	[0.1791]	0.2500	ug/L	
Chromium	1.576	0.5000	ug/L	
Cobalt	2.864	0.2500	ug/L	
Copper	1.852	0.5000	ug/L	
Lead	1.309	0.2500	ug/L	
Manganese	1.049	0.2500	ug/L	
Nickel	1.557	0.2500	ug/L	
Selenium	[0]	0.5000	ug/L	
Silver	[0.1414]	0.2500	ug/L	
Thallium	[0.07787]	0.5000	ug/L	
Vanadium	[0.2272]	1.000	ug/L	
Zinc	1.947	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	89740	ug/L	90
Calcium	300000	301200	ug/L	100
Iron	250000	249800	ug/L	100
Magnesium	100000	93590	ug/L	94
Molybdenum	2000	2269	ug/L	113
Potassium	100000	98320	ug/L	98
Sodium	250000	231700	ug/L	93

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	699133	-29.25
Scandium	562292	407378	-27.55
Germanium	180440	123996	-31.28
Indium	1368410	865103	-36.78
Bismuth	1333700	757128	-43.23

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449163 File : c2415163 Time : 25-MAR-2006 06:29
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	88210	ug/L	-12		
Arsenic	100.0	96.77	ug/L	-3	20	
Cadmium	100.0	87.72	ug/L	-12	20	
Calcium	300000	300000	ug/L	0		
Chromium	200.0	208.2	ug/L	4	20	
Cobalt	200.0	196.1	ug/L	-2	20	
Copper	200.0	178.7	ug/L	-11	20	
Iron	250000	252100	ug/L	1		
Magnesium	100000	92600	ug/L	-7		
Manganese	200.0	203.3	ug/L	2	20	
Molybdenum	2000	2250	ug/L	13		
Nickel	200.0	188.9	ug/L	-6	20	
Potassium	100000	97250	ug/L	-3		
Selenium	100.0	90.51	ug/L	-9	20	
Silver	50.00	45.85	ug/L	-8	20	
Sodium	250000	229300	ug/L	-8		
Vanadium	200.0	210.6	ug/L	5	20	
Zinc	100.0	89.56	ug/L	-10	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	392361	-30.22
Germanium	180440	117744	-34.75

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449188 File : c2415188 Time : 25-MAR-2006 08:49
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.452	0.2500	ug/L	
Arsenic	[0.4067]	0.5000	ug/L	
Barium	0.9738	0.2500	ug/L	
Beryllium	[0.01078]	0.2500	ug/L	
Cadmium	[0.09223]	0.2500	ug/L	
Chromium	6.008	0.5000	ug/L	
Cobalt	2.928	0.2500	ug/L	
Copper	1.744	0.5000	ug/L	
Lead	1.288	0.2500	ug/L	
Manganese	1.046	0.2500	ug/L	
Nickel	1.640	0.2500	ug/L	
Selenium	[0.3177]	0.5000	ug/L	
Silver	[0.1392]	0.2500	ug/L	
Thallium	[0.06780]	0.5000	ug/L	
Vanadium	1.467	1.000	ug/L	
Zinc	2.024	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	88210	ug/L	88
Calcium	300000	299100	ug/L	100
Iron	250000	253400	ug/L	101
Magnesium	100000	92340	ug/L	92
Molybdenum	2000	2198	ug/L	110
Potassium	100000	96490	ug/L	96
Sodium	250000	231900	ug/L	93

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	692065	-29.97
Scandium	562292	386620	-31.24
Germanium	180440	109304	-39.42
Indium	1368410	745623	-45.51
Bismuth	1333700	635742	-52.33

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449189 File : c2415189 Time : 25-MAR-2006 08:55
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	83800	ug/L	-16		
Arsenic	100.0	92.87	ug/L	-7	20	
Cadmium	100.0	83.91	ug/L	-16	20	
Calcium	300000	288700	ug/L	-4		
Chromium	200.0	199.4	ug/L	0	20	
Cobalt	200.0	185.5	ug/L	-7	20	
Copper	200.0	172.5	ug/L	-14	20	
Iron	250000	237100	ug/L	-5		
Magnesium	100000	88510	ug/L	-11		
Manganese	200.0	192.1	ug/L	-4	20	
Molybdenum	2000	2179	ug/L	9		
Nickel	200.0	181.3	ug/L	-9	20	
Potassium	100000	95070	ug/L	-5		
Selenium	100.0	86.14	ug/L	-14	20	
Silver	50.00	44.07	ug/L	-12	20	
Sodium	250000	218500	ug/L	-13		
Vanadium	200.0	201.1	ug/L	1	20	
Zinc	100.0	85.66	ug/L	-14	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	374467	-33.40
Germanium	180440	109542	-39.29

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

equence Date: 24-MAR-2006
Sequence: 56120449 (c2415)
nstrument ID: MET05

ICALBLK Filename: c2415003
Date Analyzed: 24-MAR-2006
Time Analyzed: 15:41

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD	988200	562292	180440	1368410	1333700	2209951
LOWER LIMIT	296460	168688	54132	410523	400110	662985
UPPER LIMIT	1185840	674751	216528	1642092	1600440	2651941

YPE	SAMPLE	#						
CB		012	969137	523398	172708	1267032	1243505	2044909
CSA		013	779542	491304	146225	1095335	938748	1884957
LANK	QC332055	017	933067	541233	170988	1308727	1286688	2105243
S	QC332056	018	897053	488852	154003	1104449	1037053	1781347
SS	185457-016	020	819406	482531	141807	1030667	900572	1765286
ER	QC332060	021	936674	522697	165046	1193875	1135870	2009167
SS	185457-016	022	972773	540838	172188	1259288	1198188	2057726
ER	QC332060	023	1001688	538308	173595	1273316	1243303	2040529
CV		024	974542	535254	170147	1196955	1140941	1953272
CB		026	980518	523143	167279	1239501	1206515	1978534
SS	185457-016	027	806947	461082	138153	997944	862388	1715177
S	QC332058	028	826277	474200	140445	992258	872644	1716779
SD	QC332059	029	805980	471418	137778	993201	870711	1722383
DS	QC332061	030	821766	471081	136868	982461	847810	1690964
S	QC332058	031	957831	515238	167168	1211204	1164650	1958101
SD	QC332059	032	969156	521671	167835	1222229	1164139	1964258
DS	QC332061	033	952804	517857	166433	1203865	1172058	1960401
SD	QC332057	035	933562	484101	150456	1065375	995106	1724214
AMPLE	185457-001	036	819884	451233	138146	983996	884557	1652640
AMPLE	185457-002	037	895816	484359	146671	1063074	956973	1777156
CV		039	953180	509681	163182	1155967	1119152	1914650
CB		041	942974	497013	160729	1193739	1163252	1873462
AMPLE	185457-005	042	806019	437862	124970	841256	747042	1495271
AMPLE	185457-006	043	868741	454569	129494	890825	773937	1527506
AMPLE	185457-007	044	874780	457021	134590	956278	829011	1564727
AMPLE	185457-008	045	867298	452567	133313	938923	819560	1557071

= Outside QC Limits

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

equence Date: 24-MAR-2006
Sequence: 56120449 (c2415)
nstrument ID: MET05

ICALBLK Filename: c2415003
Date Analyzed: 24-MAR-2006
Time Analyzed: 15:41

YPE	SAMPLE	#						
AMPLE	185457-001	046	983059	527842	167721	1252890	1206212	2000194
AMPLE	185457-002	047	992755	517129	165457	1223679	1185281	1966397
AMPLE	185457-005	048	969374	513081	163668	1198046	1153775	1947077
AMPLE	185457-006	049	976815	507042	162749	1185074	1148658	1944004
AMPLE	185457-007	050	944914	495280	160109	1184926	1158760	1906340
AMPLE	185457-008	051	962775	502014	162041	1208567	1178110	1934641
CV		053	938741	499396	159991	1139949	1112291	1894655
CB		055	948372	501028	161896	1226800	1216616	1962262
CSA		056	754441	444889	133804	996236	855786	1688332
LANK	QC331831	060	887221	482077	154230	1177455	1164861	1857360
S	QC331832	061	876773	464330	145417	1051301	994238	1682322
SD	QC331833	062	861659	464521	145047	1051915	995756	1681989
SS	185408-008	064	853151	464363	142451	1050691	994561	1683203
ER	QC331838	065	881915	471430	151282	1126374	1129253	1816009
S	QC331836	066	822095	441946	138016	984556	943918	1614616
SD	QC331837	067	822840	449326	139344	997096	944252	1634199
CV		069	867540	477594	152734	1090823	1069936	1793122
CB		071	892991	474552	152380	1132829	1123713	1801393
DS	QC331839	073	821562	448903	137575	984025	903300	1587489
SS	185408-010	074	828272	445228	139365	1018084	941147	1653171
S	QC331834	075	793752	442179	137015	990889	921313	1652132
SD	QC331835	076	804277	441422	136827	996343	925088	1657566
SS	185408-008	077	862998	471269	151144	1147421	1140857	1835833
ER	QC331838	078	872665	465123	150431	1144231	1142246	1828186
S	QC331836	079	878168	467273	150447	1143427	1120530	1803292
SD	QC331837	080	885873	466337	150048	1122809	1128941	1815370
DS	QC331839	081	876342	471766	152091	1151606	1142680	1842286
CV		083	864072	469597	149631	1083146	1052352	1762150
CB		085	872491	466362	149948	1134348	1121464	1786827
SS	185408-010	086	862140	464602	150047	1119899	1110489	1790612
S	QC331834	087	870795	464299	150027	1138492	1115658	1798186
SD	QC331835	088	870914	465487	150382	1135587	1128329	1808531

= Outside QC Limits

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

equence Date: 24-MAR-2006 ICALBLK Filename: c2415003
Sequence: 56120449 (c2415) Date Analyzed: 24-MAR-2006
nstrument ID: MET05 Time Analyzed: 15:41

YPE	SAMPLE	#						
AMPLE	185408-006	089	779910	434417	134605	1000537	937490	1673153
AMPLE	185408-007	090	778389	436320	135509	1011547	967045	1680540
AMPLE	185408-009	091	792816	445703	138222	1062007	1040861	1765889
AMPLE	185408-011	092	746313	439046	136117	1052751	1007617	1778780
AMPLE	185408-006	093	804469	479062	152131	1214168	1224563	1988922
AMPLE	185408-007	094	814321	478859	152621	1216094	1217743	1992688
AMPLE	185408-009	095	807417	471113	149594	1202599	1210871	1972224
CV		097	850311	475066	150588	1119011	1086373	1851792
CB		099	839745	456637	148479	1142762	1144155	1848352
AMPLE	185408-011	100	815768	458486	148813	1155942	1139220	1851356
AMPLE	185463-001	101	757363	425854	135127	1041515	1030825	1710206
AMPLE	185463-001	102	797634	457489	147108	1164342	1183790	1901204
LANK	QC331981	104	802593	457467	146054	1159678	1170443	1890366
S	QC331982	105	788112	430226	136577	1002517	976562	1654540
SD	QC331983	106	817709	434809	137135	1018464	964466	1655119
CV		107	839407	458026	146831	1077183	1042410	1762605
CB		109	841646	456716	146645	1137654	1126462	1813376
SS	185408-002	110	726140	416296	125819	924997	844072	1585680
ER	QC331986	111	795657	447318	142353	1092646	1059218	1791620
S	QC331984	112	721020	417512	124987	932106	835838	1585923
SD	QC331985	113	729081	422214	126492	943589	843430	1608086
DS	QC331987	114	732944	421383	125876	941699	837344	1582769
SS	185408-002	115	821297	459594	146709	1134817	1121528	1815054
ER	QC331986	116	802150	454932	146103	1154993	1146332	1857097
S	QC331984	117	834463	457260	146268	1124000	1102511	1795529
SD	QC331985	118	821924	446850	144312	1095886	1083850	1765997
DS	QC331987	119	827809	454117	144977	1098643	1077590	1760144
CV		121	806356	440073	142136	1039855	1008839	1706144
CB		123	830886	449947	144623	1113418	1102799	1771621
AMPLE	185408-001	124	709028	417409	127520	979206	893168	1638904
AMPLE	185408-003	125	701819	423482	128463	1001801	915296	1711931
AMPLE	185408-004	126	733003	414004	126424	953265	870120	1587071

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= Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

equence Date: 24-MAR-2006 ICALBLK Filename: c2415003
Sequence: 56120449 (c2415) Date Analyzed: 24-MAR-2006
nstrument ID: MET05 Time Analyzed: 15:41

TYPE	SAMPLE	#						
SAMPLE	185408-005	127	739588	410428	124955	934629	848657	1545016
SAMPLE	185408-001	128	822966	448691	144346	1110968	1103256	1774551
SAMPLE	185408-003	129	811888	443553	142886	1100351	1082951	1766579
SAMPLE	185408-004	130	786395	431762	137826	1041526	1040155	1673719
SAMPLE	185408-005	131	828836	452710	144081	1094699	1080384	1759164
CCV		133	813402	443206	140547	1028681	979894	1681265
CCB		135	841360	445097	143634	1086631	1083950	1738890
ICSA		137	674836	406723	121976	887703	772371	1536515
SAMPLE	185511-001	140	758925	428789	128973	951252	851467	1556345
SAMPLE	185511-002	141	774019	443609	132850	1007662	915326	1670631
SAMPLE	185511-009	142	775011	435018	127055	919088	800522	1517413
SAMPLE	185511-010	143	809101	433561	128827	909109	808592	1500044
SAMPLE	185511-011	144	834344	444979	134791	987084	888617	1598726
SAMPLE	185511-012	145	879524	454859	139927	1050074	1003783	1625874
SAMPLE	185511-013	146	889604	448738	139482	1047780	977452	1630266
CCV		148	898686	474239	147941	1054434	995910	1697276
CCB		150	928026	470981	147653	1106829	1054733	1695829
SAMPLE	185511-001	151	914571	468593	147785	1095844	1048000	1695234
SAMPLE	185511-002	152	898120	465039	146805	1081241	1031908	1681694
SAMPLE	185511-009	153	892820	477480	148386	1104241	1056783	1743078
SAMPLE	185511-010	154	870000	449027	142702	1061851	1016986	1643022
SAMPLE	185511-011	155	893272	463183	146295	1080807	1049763	1712058
SAMPLE	185511-012	156	845198	439973	139813	1034738	1013321	1637294
SAMPLE	185511-013	157	859140	482603	155303	1210884	1197044	1922512
CCV		159	836473	493671	155900	1140911	1105121	1864226
CCB		161	838678	505026	161662	1282761	1249274	2030082
ICSA		162	699133	407378	123996	865103	757128	1506762
SAMPLE	185586-001	165	771774	402916	112089	748614	641049	1285182
SAMPLE	185586-002	166	819412	416153	116812	770036	678518	1285819
SAMPLE	185586-003	167	804969	418760	119801	806652	731128	1384785
SAMPLE	185586-018	168	774275	410904	116904	787970	703842	1336567
SAMPLE	185586-019	169	827801	431607	125902	859952	772891	1461643

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= Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

equence Date: 24-MAR-2006 ICALBLK Filename: c2415003
Sequence: 56120449 (c2415) Date Analyzed: 24-MAR-2006
nstrument ID: MET05 Time Analyzed: 15:41

YPE	SAMPLE	#						
AMPLE	185586-020	170	825135	428246	121478	799779	712619	1377815
AMPLE	185586-021	171	843481	425377	124694	821892	761419	1398218
AMPLE	185586-022	172	803525	425996	122775	827060	767913	1434556
CV		174	892339	468084	138839	979740	906100	1564977
CB		176	877911	451821	137616	1006582	945762	1555180
AMPLE	185586-023	177	862123	410613	122842	822762	772588	1357276
AMPLE	185586-024	178	742583	416797	124875	900069	833040	1506763
AMPLE	185586-025	179	689219	413677	125880	978651	901403	1635791
AMPLE	185586-026	180	698318	397434	122510	958796	909958	1617639
AMPLE	185586-001	181	741263	417299	134961	1083737	1102542	1781481
AMPLE	185586-002	182	737925	451771	142841	1149286	1148213	1865982
AMPLE	185586-003	183	786967	441082	138181	1072986	1058515	1708180
AMPLE	185586-018	184	777445	448020	140428	1114324	1096072	1793461
CV		185	1069484	756141*	185899	1355459	1186577	2005822
CB		187	867621	468086	141351	1068398	1040296	1678665
CSA		188	692065	386620	109304	745623	635742	1283214

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= Outside QC Limits

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	c2415001	TUN				24-MAR-2006 15:29	1.0	1.0				1	
003	c2415003	ICALBLK	std-blk			24-MAR-2006 15:41	1.0	1.0				2	
004	c2415004	ICAL	CS1			24-MAR-2006 15:46	1.0	1.0				3	
005	c2415005	ICAL	CS2			24-MAR-2006 15:52	1.0	1.0				4	
006	c2415006	ICAL	CS3			24-MAR-2006 15:57	1.0	1.0				5	
007	c2415007	ICAL	CS4			24-MAR-2006 16:03	1.0	1.0				6	
008	c2415008	ICAL	CS5			24-MAR-2006 16:09	1.0	1.0				7	
009	c2415009	ICAL	CS6			24-MAR-2006 16:14	1.0	1.0				8	
010	c2415010	ICV				24-MAR-2006 16:19	1.0	1.0			1	9	
012	c2415012	ICB				24-MAR-2006 16:30	1.0	1.0	1		1	2	
013	c2415013	ICSA				24-MAR-2006 16:36	1.0	1.0			1	10 2	7:CA=291300
014	c2415014	ICSAB				24-MAR-2006 16:41	1.0	1.0			1	11 2	11:CA=290600
017	c2415017	BLANK	QC332055	111436	Filtra	24-MAR-2006 16:58	1.0	1.0			1	2	
018	c2415018	BS	QC332056	111436	Filtra	24-MAR-2006 17:03	1.0	1.0			1	2	
019	c2415019	X	QC332057	111436	Filtra	24-MAR-2006 17:09	1.0	1.0			1	2	
020	c2415020	MSS	185457-016	111436	Filtra	24-MAR-2006 17:14	1.0	1.0	5		1	2	4:MG=2378~~00~~04
021	c2415021	SER	QC332060	111436	Filtra	24-MAR-2006 17:20	5.0	1.0		2	1	2	2:MG=49680.0
022	c2415022	MSS	185457-016	111436	Filtra	24-MAR-2006 17:26	20.0	1.0			1	2	
023	c2415023	SER	QC332060	111436	Filtra	24-MAR-2006 17:31	100.0	1.0		1	1	2	
024	c2415024	CCV				24-MAR-2006 17:37	1.0	1.0			1	12 2	
026	c2415026	CCB				24-MAR-2006 17:48	1.0	1.0			1	2	
027	c2415027	MSS	185457-016	111436	Filtra	24-MAR-2006 17:53	1.0	1.0	4		1	2	4:MG=242900
028	c2415028	MS	QC332058	111436	Filtra	24-MAR-2006 17:59	1.0	1.0	1		1	2	4:MG=244700
029	c2415029	MSD	QC332059	111436	Filtra	24-MAR-2006 18:04	1.0	1.0	1		1	2	4:MG=244400
030	c2415030	PDS	QC332061	111436	Filtra	24-MAR-2006 18:10	1.0	1.0			1	13 2	4:MG=254800
031	c2415031	MS	QC332058	111436	Filtra	24-MAR-2006 18:15	20.0	1.0	1	1	1	2	
032	c2415032	MSD	QC332059	111436	Filtra	24-MAR-2006 18:21	20.0	1.0		1	1	2	
033	c2415033	PDS	QC332061	111436	Filtra	24-MAR-2006 18:26	20.0	1.0		1	1	13 2	
035	c2415035	BSD	QC332057	111436	Filtra	24-MAR-2006 18:38	1.0	1.0			1	2	
036	c2415036	SAMPLE	185457-001	111436	Filtra	24-MAR-2006 18:43	1.0	1.0	4		1	2	3:NA=96550.0
037	c2415037	SAMPLE	185457-002	111436	Filtra	24-MAR-2006 18:49	1.0	1.0	2		1	2	2:NA=99150.0

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [illegible] Date: 3/28/6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
039	c2415039	CCV				24-MAR-2006 19:00	1.0	1.0			1	12 2	
041	c2415041	CCB				24-MAR-2006 19:11	1.0	1.0			1	2	
042	c2415042	SAMPLE	185457-005	111436	Filtra	24-MAR-2006 19:16	1.0	1.0	3		1	2	3:MG=277200
043	c2415043	SAMPLE	185457-006	111436	Filtra	24-MAR-2006 19:22	1.0	1.0	5		1	2	5:MG=317500
044	c2415044	SAMPLE	185457-007	111436	Filtra	24-MAR-2006 19:27	1.0	1.0	2		1	2	2:MG=117600
045	c2415045	SAMPLE	185457-008	111436	Filtra	24-MAR-2006 19:33	1.0	1.0	2		1	2	2:MG=139900
046	c2415046	SAMPLE	185457-001	111436	Filtra	24-MAR-2006 19:39	20.0	1.0			1	2	
047	c2415047	SAMPLE	185457-002	111436	Filtra	24-MAR-2006 19:44	20.0	1.0			1	2	
048	c2415048	SAMPLE	185457-005	111436	Filtra	24-MAR-2006 19:50	20.0	1.0			1	2	
049	c2415049	SAMPLE	185457-006	111436	Filtra	24-MAR-2006 19:55	20.0	1.0			1	2	
050	c2415050	SAMPLE	185457-007	111436	Filtra	24-MAR-2006 20:01	20.0	1.0			1	2	
051	c2415051	SAMPLE	185457-008	111436	Filtra	24-MAR-2006 20:07	20.0	1.0			1	2	
053	c2415053	CCV				24-MAR-2006 20:18	1.0	1.0			1	12 2	
055	c2415055	CCB				24-MAR-2006 20:29	1.0	1.0			1	2	
056	c2415056	ICSA				24-MAR-2006 20:34	1.0	1.0			1	10 2	7:CA=284700
057	c2415057	ICSAB				24-MAR-2006 20:40	1.0	1.0			1	11 2	10:CA=279400
060	c2415060	BLANK	QC331831	111388	Filtra	24-MAR-2006 20:56	1.0	1.0			1	2	
061	c2415061	BS	QC331832	111388	Filtra	24-MAR-2006 21:02	1.0	1.0			1	2	
062	c2415062	BSD	QC331833	111388	Filtra	24-MAR-2006 21:07	1.0	1.0			1	2	
064	c2415064	MSS	185408-008	111388	Filtra	24-MAR-2006 21:18	1.0	1.0	1		1	2	1:NA=21510.0
065	c2415065	SER	QC331838	111388	Filtra	24-MAR-2006 21:24	5.0	1.0			1	2	
066	c2415066	MS	QC331836	111388	Filtra	24-MAR-2006 21:29	1.0	1.0	3		1	2	4:NA=32320.0
067	c2415067	MSD	QC331837	111388	Filtra	24-MAR-2006 21:35	1.0	1.0	2		1	2	3:NA=31390.0
069	c2415069	CCV				24-MAR-2006 21:46	1.0	1.0			1	12 2	
071	c2415071	CCB				24-MAR-2006 21:57	1.0	1.0			1	2	
072	c2415072	TUN				24-MAR-2006 22:03	1.0	1.0				1	
073	c2415073	PDS	QC331839	111388	Filtra	24-MAR-2006 22:09	1.0	1.0	2		1	13 2	3:NA=31210.0
074	c2415074	MSS	185408-010	111388	Filtra	24-MAR-2006 22:15	1.0	1.0	2		1	2	2:NA=42630.0
075	c2415075	MS	QC331834	111388	Filtra	24-MAR-2006 22:20	1.0	1.0	1		1	2	3:NA=53420.0
076	c2415076	MSD	QC331835	111388	Filtra	24-MAR-2006 22:26	1.0	1.0	1		1	2	3:NA=52930.0
077	c2415077	MSS	185408-008	111388	Filtra	24-MAR-2006 22:31	20.0	1.0			1	2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [illegible] Date: 3/25/6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
078	c2415078	SER	QC331838	111388	Filtra	24-MAR-2006 22:37	100.0	1.0			1	2	
079	c2415079	MS	QC331836	111388	Filtra	24-MAR-2006 22:42	20.0	1.0			1	2	
080	c2415080	MSD	QC331837	111388	Filtra	24-MAR-2006 22:48	20.0	1.0			1	2	
081	c2415081	PDS	QC331839	111388	Filtra	24-MAR-2006 22:53	20.0	1.0		2	1	13 2	
083	c2415083	CCV				24-MAR-2006 23:04	1.0	1.0			1	12 2	
085	c2415085	CCB				24-MAR-2006 23:15	1.0	1.0			1	2	
086	c2415086	MSS	185408-010	111388	Filtra	24-MAR-2006 23:21	20.0	1.0			1	2	
087	c2415087	MS	QC331834	111388	Filtra	24-MAR-2006 23:27	20.0	1.0			1	2	
088	c2415088	MSD	QC331835	111388	Filtra	24-MAR-2006 23:32	20.0	1.0			1	2	
089	c2415089	SAMPLE	185408-006	111388	Filtra	24-MAR-2006 23:38	1.0	1.0	3		1	2	3:MG=56540.0
090	c2415090	SAMPLE	185408-007	111388	Filtra	24-MAR-2006 23:43	1.0	1.0	3		1	2	3:MG=54910.0
091	c2415091	SAMPLE	185408-009	111388	Filtra	24-MAR-2006 23:49	1.0	1.0	1		1	2	1:NA=20340.0
092	c2415092	SAMPLE	185408-011	111388	Filtra	24-MAR-2006 23:55	1.0	1.0	2		1	2	2:NA=41040.0
093	c2415093	SAMPLE	185408-006	111388	Filtra	25-MAR-2006 00:00	20.0	1.0			1	2	
094	c2415094	SAMPLE	185408-007	111388	Filtra	25-MAR-2006 00:06	20.0	1.0			1	2	
095	c2415095	SAMPLE	185408-009	111388	Filtra	25-MAR-2006 00:11	20.0	1.0			1	2	
097	c2415097	CCV				25-MAR-2006 00:22	1.0	1.0			1	12 2	
099	c2415099	CCB				25-MAR-2006 00:34	1.0	1.0			1	2	
100	c2415100	SAMPLE	185408-011	111388	Filtra	25-MAR-2006 00:39	20.0	1.0			1	2	
101	c2415101	SAMPLE	185463-001	111388	Filtra	25-MAR-2006 00:45	1.0	1.0			1	2	
102	c2415102	SAMPLE	185463-001	111388	Filtra	25-MAR-2006 00:50	20.0	1.0			1	2	
104	c2415104	BLANK	QC331981	111421	Filtra	25-MAR-2006 01:01	1.0	1.0			1	2	
105	c2415105	BS	QC331982	111421	Filtra	25-MAR-2006 01:07	1.0	1.0			1	2	
106	c2415106	BSD	QC331983	111421	Filtra	25-MAR-2006 01:12	1.0	1.0			1	2	
107	c2415107	CCV				25-MAR-2006 01:18	1.0	1.0			1	12 2	
109	c2415109	CCB				25-MAR-2006 01:29	1.0	1.0			1	2	
110	c2415110	MSS	185408-002	111421	Filtra	25-MAR-2006 01:34	1.0	1.0	4		1	2	4:NA=113600
111	c2415111	SER	QC331986	111421	Filtra	25-MAR-2006 01:40	5.0	1.0			1	2	1:NA=22340.0
112	c2415112	MS	QC331984	111421	Filtra	25-MAR-2006 01:45	1.0	1.0			1	2	4:NA=119300
113	c2415113	MSD	QC331985	111421	Filtra	25-MAR-2006 01:51	1.0	1.0			1	2	4:NA=119300
114	c2415114	PDS	QC331987	111421	Filtra	25-MAR-2006 01:56	1.0	1.0			1	13 2	4:NA=116900

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Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: Melvin Date: 3/28/6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
115	c2415115	MSS	185408-002	111421	Filtra	25-MAR-2006 02:02	20.0	1.0			1	2	
116	c2415116	SER	QC331986	111421	Filtra	25-MAR-2006 02:07	100.0	1.0			1	2	
117	c2415117	MS	QC331984	111421	Filtra	25-MAR-2006 02:13	20.0	1.0		1	1	2	
118	c2415118	MSD	QC331985	111421	Filtra	25-MAR-2006 02:19	20.0	1.0		1	1	2	
119	c2415119	PDS	QC331987	111421	Filtra	25-MAR-2006 02:24	20.0	1.0		3	1	13 2	
121	c2415121	CCV				25-MAR-2006 02:35	1.0	1.0			1	12 2	
123	c2415123	CCB				25-MAR-2006 02:46	1.0	1.0			1	2	
124	c2415124	SAMPLE	185408-001	111421	Filtra	25-MAR-2006 02:52	1.0	1.0	4		1	2	4:NA=84720.0
125	c2415125	SAMPLE	185408-003	111421	Filtra	25-MAR-2006 02:57	1.0	1.0	4		1	2	4:NA=86130.0
126	c2415126	SAMPLE	185408-004	111421	Filtra	25-MAR-2006 03:03	1.0	1.0	5		1	2	5:CA=57740.0
127	c2415127	SAMPLE	185408-005	111421	Filtra	25-MAR-2006 03:08	1.0	1.0	5		1	2	5:CA=64560.0
128	c2415128	SAMPLE	185408-001	111421	Filtra	25-MAR-2006 03:14	20.0	1.0			1	2	
129	c2415129	SAMPLE	185408-003	111421	Filtra	25-MAR-2006 03:19	20.0	1.0			1	2	
130	c2415130	SAMPLE	185408-004	111421	Filtra	25-MAR-2006 03:25	20.0	1.0			1	2	
131	c2415131	SAMPLE	185408-005	111421	Filtra	25-MAR-2006 03:30	20.0	1.0			1	2	
133	c2415133	CCV				25-MAR-2006 03:42	1.0	1.0			1	12 2	
135	c2415135	CCB				25-MAR-2006 03:53	1.0	1.0			1	2	
136	c2415136	TUN				25-MAR-2006 03:59	1.0	1.0				1	
137	c2415137	ICSA				25-MAR-2006 04:05	1.0	1.0			1	10 2	7:CA=290700
138	c2415138	ICSAB				25-MAR-2006 04:10	1.0	1.0			1	11 2	10:CA=289100
140	c2415140	SAMPLE	185511-001	111388	Filtra	25-MAR-2006 04:21	1.0	1.0	3		1	2	3:NA=53820.0
141	c2415141	SAMPLE	185511-002	111388	Filtra	25-MAR-2006 04:27	1.0	1.0	3		1	2	3:NA=53130.0
142	c2415142	SAMPLE	185511-009	111388	Filtra	25-MAR-2006 04:32	1.0	1.0	2		1	2	2:NA=191500
143	c2415143	SAMPLE	185511-010	111388	Filtra	25-MAR-2006 04:38	1.0	1.0	4		1	2	4:NA=68870.0
144	c2415144	SAMPLE	185511-011	111388	Filtra	25-MAR-2006 04:43	1.0	1.0	3		1	2	3:MG=40470.0
145	c2415145	SAMPLE	185511-012	111388	Filtra	25-MAR-2006 04:49	1.0	1.0			1	2	
146	c2415146	SAMPLE	185511-013	111388	Filtra	25-MAR-2006 04:55	1.0	1.0			1	2	
148	c2415148	CCV				25-MAR-2006 05:06	1.0	1.0			1	12 2	
150	c2415150	CCB				25-MAR-2006 05:17	1.0	1.0			1	2	
151	c2415151	SAMPLE	185511-001	111388	Filtra	25-MAR-2006 05:22	20.0	1.0	1		1	2	
152	c2415152	SAMPLE	185511-002	111388	Filtra	25-MAR-2006 05:28	20.0	1.0	1		1	2	

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Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: MeWu Date: 3/25/6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
153	c2415153	SAMPLE	185511-009	111388	Filtra	25-MAR-2006 05:34	20.0	1.0	1		1	2	
154	c2415154	SAMPLE	185511-010	111388	Filtra	25-MAR-2006 05:39	20.0	1.0	1		1	2	
155	c2415155	SAMPLE	185511-011	111388	Filtra	25-MAR-2006 05:45	20.0	1.0	1		1	2	
156	c2415156	SAMPLE	185511-012	111388	Filtra	25-MAR-2006 05:50	20.0	1.0	1		1	2	
157	c2415157	SAMPLE	185511-013	111388	Filtra	25-MAR-2006 05:56	20.0	1.0	1		1	2	
159	c2415159	CCV				25-MAR-2006 06:07	1.0	1.0	1		1	12 2	
161	c2415161	CCB				25-MAR-2006 06:18	1.0	1.0			1	2	
162	c2415162	ICSA				25-MAR-2006 06:24	1.0	1.0			1	10 2	7:CA=301200
163	c2415163	ICSAB				25-MAR-2006 06:29	1.0	1.0			1	11 2	10:CA=300000
165	c2415165	SAMPLE	185586-001	111436	Filtra	25-MAR-2006 06:40	1.0	1.0	5		1	2	4:CA=167100
166	c2415166	SAMPLE	185586-002	111436	Filtra	25-MAR-2006 06:46	1.0	1.0	5		1	2	4:CA=124300
167	c2415167	SAMPLE	185586-003	111436	Filtra	25-MAR-2006 06:51	1.0	1.0	5		1	2	4:CA=124000
168	c2415168	SAMPLE	185586-018	111436	Filtra	25-MAR-2006 06:57	1.0	1.0	4		1	2	3:NA=93550.0
169	c2415169	SAMPLE	185586-019	111436	Filtra	25-MAR-2006 07:02	1.0	1.0	6		1	2	5:NA=56300.0
170	c2415170	SAMPLE	185586-020	111436	Filtra	25-MAR-2006 07:08	1.0	1.0	6		1	2	5:NA=137100
171	c2415171	SAMPLE	185586-021	111436	Filtra	25-MAR-2006 07:13	1.0	1.0	5		1	2	4:CA=52610.0
172	c2415172	SAMPLE	185586-022	111436	Filtra	25-MAR-2006 07:19	1.0	1.0	4		1	2	3:NA=51830.0
174	c2415174	CCV				25-MAR-2006 07:30	1.0	1.0			1	12 2	
176	c2415176	CCB				25-MAR-2006 07:41	1.0	1.0			1	2	
177	c2415177	SAMPLE	185586-023	111436	Filtra	25-MAR-2006 07:47	1.0	1.0	3		1	2	
178	c2415178	SAMPLE	185586-024	111436	Filtra	25-MAR-2006 07:52	1.0	1.0	4		1	2	3:MG=54800.0
179	c2415179	SAMPLE	185586-025	111436	Filtra	25-MAR-2006 07:58	1.0	1.0	3		1	2	2:MG=45530.0
180	c2415180	SAMPLE	185586-026	111436	Filtra	25-MAR-2006 08:03	1.0	1.0	4		1	2	3:NA=53600.0
181	c2415181	SAMPLE	185586-001	111436	Filtra	25-MAR-2006 08:09	20.0	1.0	3		1	2	
182	c2415182	SAMPLE	185586-002	111436	Filtra	25-MAR-2006 08:14	20.0	1.0	3		1	2	
183	c2415183	SAMPLE	185586-003	111436	Filtra	25-MAR-2006 08:20	20.0	1.0	3		1	2	
184	c2415184	SAMPLE	185586-018	111436	Filtra	25-MAR-2006 08:26	20.0	1.0	3		1	2	
185	c2415185	CCV				25-MAR-2006 08:33	1.0	1.0	3		1	12 2	
187	c2415187	CCB				25-MAR-2006 08:44	1.0	1.0			1	2	
188	c2415188	ICSA				25-MAR-2006 08:49	1.0	1.0			1	10 2	7:CA=299100
189	c2415189	ICSAB				25-MAR-2006 08:55	1.0	1.0			1	11 2	8:CA=288700

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [illegible] Date: 3/25/06

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185511 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	HARD	ALB	SBS	ASA	BBE	CDA	CCA	CRO	COU	FEB	PBG	MGN	MHG	MOI	NIK	SEA	AGN	NAL	TLV	ZN
185511-001	MET05	03/25/06 04:21	1.0		+	+	+		+		+		+	+	+		+			+	+					+	+
185511-001	MET05	03/25/06 05:22	20.0							+						+									+		
185511-002	MET05	03/25/06 04:27	1.0		+	+	+		+		+		+	+	+		+			+	+					+	+
185511-002	MET05	03/25/06 05:28	20.0							+						+									+		
185511-009	MET05	03/25/06 04:32	1.0		+	+	+		+	+	+		+	+	+		+			+	+					+	+
185511-009	MET05	03/25/06 05:34	20.0													+									+		
185511-010	MET05	03/25/06 04:38	1.0		+	+	+		+		+		+	+	+					+	+					+	+
185511-010	MET05	03/25/06 05:39	20.0							+						+	+								+		
185511-011	MET05	03/25/06 04:43	1.0		+	+	+		+		+		+	+	+		+			+	+					+	+
185511-011	MET05	03/25/06 05:45	20.0							+						+									+		
185511-012	MET04	03/16/06 15:03	1.0															+									
185511-012	MET05	03/25/06 04:49	1.0		+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
185511-012	MET05	03/25/06 05:50	20.0																								
185511-013	MET04	03/16/06 15:05	1.0															+									
185511-013	MET05	03/25/06 04:55	1.0		+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
185511-013	MET05	03/25/06 05:56	20.0																								
QC331792	MET04	03/16/06 14:27	1.0															+									
QC331793	MET04	03/16/06 14:30	1.0															+									
QC331794	MET04	03/16/06 14:32	1.0															+									
QC331795	MET04	03/16/06 14:34	1.0															+									
QC331796	MET04	03/16/06 14:37	1.0															+									
QC331797	MET04	03/16/06 14:40	1.0															+									
QC331798	MET04	03/16/06 14:43	1.0															+									
QC331799	MET04	03/16/06 14:45	1.0															+									
QC331831	MET05	03/24/06 20:56	1.0		+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC331832	MET05	03/24/06 21:02	1.0		+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC331833	MET05	03/24/06 21:07	1.0		+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC331834	MET05	03/24/06 22:20	1.0		+	+	+	+	+	+		+	+	+	+	+		+		+	+	+	+	+		+	+

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185511 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	HARD	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	MO	NI	K	SE	AG	NA	TL	V	ZN
QC331834	MET05	03/24/06 23:27	20.0								+						+								+			+
QC331835	MET05	03/24/06 22:26	1.0		+	+	+	+	+	+		+	+	+	+	+		+		+	+	+	+	+		+	+	
QC331835	MET05	03/24/06 23:32	20.0								+						+								+			+
QC331836	MET05	03/24/06 21:29	1.0			+	+	+	+	+		+	+	+	+	+		+		+	+	+	+	+		+	+	+
QC331836	MET05	03/24/06 22:42	20.0		+						+						+								+			
QC331837	MET05	03/24/06 21:35	1.0			+	+	+	+	+		+	+	+	+	+		+		+	+	+	+	+		+	+	+
QC331837	MET05	03/24/06 22:48	20.0		+						+						+								+			
QC331838	MET05	03/24/06 21:24	5.0		+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+		+	+	+
QC331838	MET05	03/24/06 22:37	100.0																						+			
QC331839	MET05	03/24/06 22:09	1.0			+	+	+	+	+	+	+	+	+	+	+		+		+	+	+	+	+		+	+	+
QC331839	MET05	03/24/06 22:53	20.0		+												+								+			

Curtis & Tompkins Laboratories Sample Preparation Summary 25-MAR-2006 09:06

Batch Number : 111388
Date Extracted: 16-MAR-2006
Extracted by : Kevin Gaines
Prep Method : 200.8

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S2309
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185408-006			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185408-007			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185408-008			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185408-009			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185408-010			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185408-011			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185463-001			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185511-001			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
185511-002			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
185511-009			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
185511-010			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
185511-011			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
185511-012			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HARDNESS, MO(more)		
185511-013			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HARDNESS, MO(more)		
QC331831	BLANK			Filtrate	50	mL	50	1.000000	1					ICAP		
QC331832	BS			Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331833	BSD			Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331834	MS	of 185408-010		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331835	MSD	of 185408-010		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331836	MS	of 185408-008		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331837	MSD	of 185408-008		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331838	SER	of 185408-008		Filtrate	50	mL	50	1.000000	1					ICAP		
QC331839	PDS	of 185408-008		Filtrate	50	mL	50	1.000000	1					ICAP		

611

Prep Chemist: MWforley Reviewed By: MW Date: 3/25/6

Relinquished By: MW Received By: MW Date: 3/25/6

Water Digestion for ICP-MS

Curtis & Tompkins, Ltd.

LIMS Batch #: 11138 ✓
Date Digested: 3/16/06
Digested by: [illegible]

Digestion Method
☐ EPA 200.8 for ICP-MS
☐ _____

BK 2288
Page 9

Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BLK	50	50	N	
BS				
BSD				
MS - 10 J				
MSD - 10				FIELD FILTERED
185408 - 10				
MS 8 S				
MSD 8				
408 - 8				
- 06 A				
- 07				
- 11 D				
463 - 01 G				
511 - 01 K				
- 02				
- 09 J				
- 10 G				
- 11 K				
- 12 N				
- 13				
408 - 09 G				

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90-95 degrees C)	95	[illegible] 3/14
5 mL of spike solution was added to all spikes	52309	
concentrated HCl	24034 BAKER	
concentrated HNO3	3940	
☐ filtered thru' Whatman # 541		

[illegible] 3/16/06

Continued from page /
Continued on page

[illegible] 3/16/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

nst : MET04
alnum : 46108784001 Date : 16-MAR-2006 13:04 Type : WATER Reviewer: ---
nits : ug/L X Axis : R Inj Vol : 2000 uL

evel	File	Seqnum	Sample ID	Analyzed	Stds
L1	111370	46108784002	Std02Rep1	16-MAR-2006 13:05	S2922 (500X)
L2	111370	46108784003	Std03Rep1	16-MAR-2006 13:07	S2922 (200X)
L3	111370	46108784004	Std04Rep1	16-MAR-2006 13:09	S2922 (50X)
L4	111370	46108784005	Std05Rep1	16-MAR-2006 13:11	S2922 (20X)
L5	111370	46108784006	Std06Rep1	16-MAR-2006 13:13	S2922 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
ercury	59830	59724	58747	57101	60001	LINR	0.02376	1.68E-5		59080	0.999	.99	

613

JR=Linear regression
strument amount = a0 + response * a1 + response^2 * a2

46108784001

WinHg Database 1.3

File Utility Help

RN RN

Protocol hgppb

Dataset/Proto 031606 /hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.67740e-5

C 2.37603e-2

Rho .999694

Type Linear

☑ Calibrated

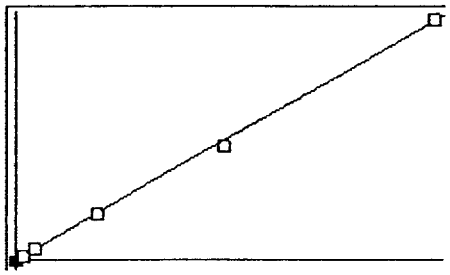
☑ Accepted

Accept

Rel. Abs.
600005

Accepted

New



Include S1 Rep 1 ☑

Conc. 10.1

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	.055	.055	1875	1	1875		
02	.20000	.224	.024	11967	0%	11966		
03	.50000	.525	.025	29863	0%	29862		
04	2.0000	1.99	-.005	117494	0%	117493		
05	5.0000	4.81	-.187	285506	0%	285505		
06	10.000	10.1	.088	600005	0%	600005		

Ready NUM

POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Standard: 1 Rep: 1              Seq:  5       13:04:07 16 Mar 06   HG

Hg    .000    ppb       1875
              Bkgd 1    9976645

*** Standard: 2 Rep: 1              Seq:  6       13:05:51 16 Mar 06   HG

Hg    .200    ppb       11966
              Bkgd 1    9973474

*** Standard: 3 Rep: 1              Seq:  7       13:07:34 16 Mar 06   HG

Hg    .500    ppb       29862
              Bkgd 1    9975128

*** Standard: 4 Rep: 1              Seq:  8       13:09:22 16 Mar 06   HG

Hg    2.00    ppb       117493
              Bkgd 1    9971758

*** Standard: 5 Rep: 1              Seq:  9       13:11:27 16 Mar 06   HG

Hg    5.00    ppb       285505
              Bkgd 1    9972665

*** Standard: 6 Rep: 1              Seq:  10      13:13:23 16 Mar 06   HG

Hg    10.0    ppb       600005
              Bkgd 1    9973677

*** Check Standard: 2  Ck2s2924     Seq:  11      13:17:15 16 Mar 06   HG
Line  Flag             Intensities
Hg                     320120
              Bkgd 1   9972341

*** Check Standard: 1  Ck1ICB       Seq:  12      13:19:06 16 Mar 06   HG
Line  Flag             Intensities
Hg                     285
              Bkgd 1   9974191

*** Sample ID: qc331757             Seq:  13      13:20:49 16 Mar 06   HG
                           111370,1
Hg    .069    ppb       2692
              Bkgd 1    9975336

=============================================================================
```

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 46108864 Instrument: MET04 HydraAA HG Analyzer Begun: 16-MAR-2006
Analytical Method: EPA 7470A SOP Version: HG_water_rv7
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
01	111380	CCV					16-MAR-2006 14:24	1.0	1.0	1	5.000	46108784001	5.470		ug/L	109		
02	111380	CCB					16-MAR-2006 14:25	1.0	1.0			46108784001	ND	0.20	ug/L			
03	111380	BLANK	QC331792		111380	Filtra	16-MAR-2006 14:27	1.0	1.0			46108784001	ND	0.20	ug/L			
04	111380	BLANK	QC331793		111380	WET Le	16-MAR-2006 14:30	1.0	5.0			46108784001	ND	1.0	ug/L			
05	111380	BS	QC331794		111380	Filtra	16-MAR-2006 14:32	1.0	1.0		5.000	46108784001	5.060	0.20	ug/L	101		
06	111380	BSD	QC331795		111380	Filtra	16-MAR-2006 14:34	1.0	1.0		5.000	46108784001	4.960	0.20	ug/L	99	2	
07	111380	MSS	185457-016		111380	Filtra	16-MAR-2006 14:35	1.0	1.0			46108784001	ND	0.20	ug/L			
08	111380	MS	QC331796	185457-016	111380	Filtra	16-MAR-2006 14:37	1.0	1.0		5.000	46108784001	5.240	0.20	ug/L	105		
09	111380	MSD	QC331797	185457-016	111380	Filtra	16-MAR-2006 14:40	1.0	1.0		5.000	46108784001	5.480	0.20	ug/L	110	4	
10	111380	MSS	185426-001		111380	WET Le	16-MAR-2006 14:42	1.0	5.0			46108784001	ND	1.0	ug/L			
11	111380	MS	QC331798	185426-001	111380	WET Le	16-MAR-2006 14:43	1.0	5.0		25.00	46108784001	21.25	1.0	ug/L	85		
12	111380	MSD	QC331799	185426-001	111380	WET Le	16-MAR-2006 14:45	1.0	5.0		25.00	46108784001	20.60	1.0	ug/L	82	3	
13	111380	CCV					16-MAR-2006 14:47	1.0	1.0	2	7.500	46108784001	7.770		ug/L	104		
14	111380	CCB					16-MAR-2006 14:49	1.0	1.0			46108784001	ND	0.20	ug/L			
15	111380	SAMPLE	185457-001		111380	Filtra	16-MAR-2006 14:50	1.0	1.0			46108784001	ND	0.20	ug/L			
16	111380	SAMPLE	185457-002		111380	Filtra	16-MAR-2006 14:52	1.0	1.0			46108784001	ND	0.20	ug/L			
17	111380	SAMPLE	185457-005		111380	Filtra	16-MAR-2006 14:54	1.0	1.0			46108784001	ND	0.20	ug/L			
18	111380	SAMPLE	185457-006		111380	Filtra	16-MAR-2006 14:56	1.0	1.0			46108784001	ND	0.20	ug/L			
19	111380	SAMPLE	185457-007		111380	Filtra	16-MAR-2006 14:58	1.0	1.0			46108784001	ND	0.20	ug/L			
20	111380	SAMPLE	185457-008		111380	Filtra	16-MAR-2006 15:01	1.0	1.0			46108784001	ND	0.20	ug/L			
21	111380	SAMPLE	185511-012		111380	Filtra	16-MAR-2006 15:03	1.0	1.0			46108784001	ND	0.20	ug/L			
22	111380	SAMPLE	185511-013		111380	Filtra	16-MAR-2006 15:05	1.0	1.0			46108784001	ND	0.20	ug/L			
23	111380	SAMPLE	185516-001		111380	Filtra	16-MAR-2006 15:07	1.0	1.0			46108784001	71 >LR	0.20	ug/L			>LR b*
24	111380	SAMPLE	185516-002		111380	Filtra	16-MAR-2006 15:09	1.0	1.0			46108784001	0.57	0.20	ug/L			
25	111380	CCV					16-MAR-2006 15:12	1.0	1.0	3	2.500	46108784001	2.790		ug/L	112		
26	111380	CCB					16-MAR-2006 15:14	1.0	1.0			46108784001	ND	0.20	ug/L			
27	111380	SAMPLE	185516-003		111380	Filtra	16-MAR-2006 15:16	1.0	1.0			46108784001	1.3	0.20	ug/L			
28	111380	SAMPLE	185558-015		111380	Filtra	16-MAR-2006 15:18	1.0	1.0			46108784001	ND	0.20	ug/L			
29	111380	SAMPLE	185568-001		111380	Water	16-MAR-2006 15:20	1.0	1.0			46108784001	0.62	0.20	ug/L			
30	111380	SAMPLE	185516-001		111380	Filtra	16-MAR-2006 15:22	10.0	1.0			46108784001	92	2.0	ug/L			
31	111380	CCV					16-MAR-2006 15:24	1.0	1.0	1	5.000	46108784001	5.380		ug/L	108		
32	111380	CCB					16-MAR-2006 15:26	1.0	1.0			46108784001	[0.05700]	0.20	ug/L			

Stds used: 1=S2926 2=S2927 3=S2925
Flags used: >LR=overrange b=noncompliant

Analyst: [signature] Date: 3/16/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

uence: 46108784 Instrument: MET04 HydraAA HG Analyzer Begun: 16-MAR-2006
lytical Method: EPA 7470A SOP Version: HG_water_rv7
lyte: Mercury

ilename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
11370	ICALBLK	Std01Rep1				16-MAR-2006 13:04	1.0	1.0									
11370	ICAL	Std02Rep1				16-MAR-2006 13:05	1.0	1.0									
11370	ICAL	Std03Rep1				16-MAR-2006 13:07	1.0	1.0									
11370	ICAL	Std04Rep1				16-MAR-2006 13:09	1.0	1.0									
11370	ICAL	Std05Rep1				16-MAR-2006 13:11	1.0	1.0									
11370	ICAL	Std06Rep1				16-MAR-2006 13:13	1.0	1.0									
11370	ICV					16-MAR-2006 13:17	1.0	1.0	2	5.000	46108784001	5.390		ug/L	108		
11370	ICB					16-MAR-2006 13:19	1.0	1.0			46108784001	[0.02900]	0.20	ug/L			
11370	BLANK	QC331757		111370	Water	16-MAR-2006 13:20	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	BS	QC331758		111370	Water	16-MAR-2006 13:22	1.0	1.0		5.000	46108784001	4.950	0.20	ug/L	99		
11370	BSD	QC331759		111370	Water	16-MAR-2006 13:24	1.0	1.0		5.000	46108784001	4.860	0.20	ug/L	97	2	
11370	MSS	185438-005		111370	Water	16-MAR-2006 13:26	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	MS	QC331760	185438-005	111370	Water	16-MAR-2006 13:28	1.0	1.0		5.000	46108784001	5.050	0.20	ug/L	101		
11370	MSD	QC331761	185438-005	111370	Water	16-MAR-2006 13:30	1.0	1.0		5.000	46108784001	5.110	0.20	ug/L	102	1	
11370	SAMPLE	185438-006		111370	Water	16-MAR-2006 13:32	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185438-007		111370	Water	16-MAR-2006 13:33	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185438-008		111370	Water	16-MAR-2006 13:35	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185504-001		111370	Water	16-MAR-2006 13:37	1.0	1.0			46108784001	0.22	0.20	ug/L			
11370	CCV					16-MAR-2006 13:39	1.0	1.0	3	2.500	46108784001	2.770		ug/L	111		
11370	CCB					16-MAR-2006 13:41	1.0	1.0			46108784001	[0.04000]	0.20	ug/L			
11370	SAMPLE	185504-002		111370	Water	16-MAR-2006 13:43	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185521-001		111370	Water	16-MAR-2006 13:45	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185521-001		111370	Filtra	16-MAR-2006 13:47	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185527-001		111370	Filtra	16-MAR-2006 13:48	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185527-002		111370	Filtra	16-MAR-2006 13:50	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185527-003		111370	Filtra	16-MAR-2006 13:53	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185527-004		111370	Filtra	16-MAR-2006 13:55	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185538-001		111370	Water	16-MAR-2006 13:56	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185544-001		111370	Water	16-MAR-2006 13:58	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185548-001		111370	Water	16-MAR-2006 14:00	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	CCV					16-MAR-2006 14:02	1.0	1.0	4	5.000	46108784001	5.490		ug/L	110		
11370	CCB					16-MAR-2006 14:04	1.0	1.0			46108784001	[0.03500]	0.20	ug/L			
11370	SAMPLE	185553-002		111370	Water	16-MAR-2006 14:05	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185555-001		111370	Water	16-MAR-2006 14:07	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185557-001		111370	Water	16-MAR-2006 14:09	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185557-005		111370	Water	16-MAR-2006 14:11	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185566-001		111370	Water	16-MAR-2006 14:14	1.0	1.0			46108784001	9.8	0.20	ug/L			
11370	CCV					16-MAR-2006 14:16	1.0	1.0	5	7.500	46108784001	7.810		ug/L	104		
11370	CCB					16-MAR-2006 14:18	1.0	1.0			46108784001	[0.01100]	0.20	ug/L			

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s used: 1=S2922 2=S2924 3=S2925 4=S2926 5=S2927

lyst: [signature] Date: 3/16/06

Curtis & Tompkins Laboratories **Sample Preparation Summary** **16-MAR-2006 11:46**

Batch Number : 111380
Date Extracted: 16-MAR-2006
Extracted by : Kale Clauson
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : mL
Clean-up :

Spike #1 ID : S2922
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185426-001			Blasland, Bouck & Lee	WET Leacha	10	mL	50	5.000000	1					T26/HG		
185457-001			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185457-002			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185457-005			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185457-006			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185457-007			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185457-008			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185457-016			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185511-012			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185511-013			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185516-001			Tesoro Golden Eagle Refinery	Filtrate	50	mL	50	1.000000	1					T26/HG		
185516-002			Tesoro Golden Eagle Refinery	Filtrate	50	mL	50	1.000000	1					T26/HG		
185516-003			Tesoro Golden Eagle Refinery	Filtrate	50	mL	50	1.000000	1					T26/HG		
185558-015			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185568-001			LA Chemical	Water	50	mL	50	1.000000	1					HG		
QC331792	BLANK			Filtrate	50	mL	50	1.000000	1					HG		
QC331793	BLANK			WET Leacha	10	mL	50	5.000000	1					HG		
QC331794	BS			Filtrate	50	mL	50	1.000000	1		2.5			HG		
QC331795	BSD			Filtrate	50	mL	50	1.000000	1		2.5			HG		
QC331796	MS	of 185457-016		Filtrate	50	mL	50	1.000000	1		2.5			HG		
QC331797	MSD	of 185457-016		Filtrate	50	mL	50	1.000000	1		2.5			HG		
QC331798	MS	of 185426-001		WET Leacha	10	mL	50	5.000000	1		2.5			HG		
QC331799	MSD	of 185426-001		WET Leacha	10	mL	50	5.000000	1		2.5			HG		

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Prep Chemist: [signature] Reviewed By: K Carlyn Date: 3/16/06

Relinquished By: [signature] Received By: [signature] Date: 3/16/06

Water Digestion for Mercury

Curtis & Tompkins, Ltd

LIMS Batch #: 111380
Date Digested: 3/16/06
Digested by: KMC

Digestion Method
☒ EPA 7470A/ EPA 245.1
☐ _____

BK 2277
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Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
185426 - 001 MSS	10	50	N	WET LEACHATE
185457 - 001 G	50			FILTRATE
002				
005				
006				
007				
008				
016 MSS S				
185511 - 012 N				
013				
185516 - 001 D				
KMC 3/16 ~~003~~ 002				
003				
185558 - 015 G				
185568 - 001 A				WATER
BLANK				FILTRATE
BLANK	10			WET LEACHATE
BS	50			FILTRATE
BSD				
MS 185457 - 016				
MSD 185457 - 016				
MS 185426 - 001	10			WET LEACHATE
MSD 185426 - 001				

	Reagent ID/ LIMS# / Time	Initials / Date
2.5 mL of spike solution was added to all spikes	S2922	KMC 3/16
ICAL Source WS#	S2922	
ICV / CCV WS#	S2924/25/26/27	
Digestion of Samples & Standards: Time ON / Temperature ON	1120 / 95°C	
Time OFF/ Temperature OFF	120 / 95°C	
concentrated H_2SO_4	B03032	
concentrated HNO_3	B49053	
5% $KMnO_4$	K 031006	
5% $K_2S_2O_8$	K_2 021406	
NaCl.hydroxylamine hydrochloride	Hy 022806	
Stannous Chloride	$SnCl_2$ 031306	
☐ filtered thru' 0.45 um syringe filter		

Prep Chemist / Date: 3/16/06

Continued from page ____

Continued on page ____

Reviewed by / Date: K Carly 03/16/06

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 6020 Water 200.8
As of 04/29/06

Analyte	Units	MET06 A	MET06 E	MET06 H	MET05
Aluminum	ug/L	0.40			1.0
Antimony	ug/L	0.0093			0.078
Arsenic	ug/L		0.034		0.65
Barium	ug/L	0.023			0.23
Beryllium	ug/L	0.017			0.055
Cadmium	ug/L	0.0058			0.14
Calcium	ug/L	5.6			15
Chromium	ug/L		0.038		0.085
Cobalt	ug/L		0.0072		0.034
Copper	ug/L		0.028		0.31
Iron	ug/L			1.9	4.2
Lead	ug/L	0.013			0.24
Magnesium	ug/L	0.73			2.1
Manganese	ug/L		0.011		0.082
Molybdenum	ug/L	0.0063			0.062
Nickel	ug/L		0.029		0.16
Potassium	ug/L	5.3			8.9
Selenium	ug/L			0.027	0.35
Silver	ug/L	0.0079			0.041
Sodium	ug/L		2.7		15
Thallium	ug/L	0.030			0.073
Vanadium	ug/L		0.026		0.15
Zinc	ug/L		0.062		0.52

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 7470A Water
As of 04/29/06

Analyte	Units	MET04
Mercury	ug/L	0.080

GENERAL CHEMISTRY

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	03/13/06
Units:	mg/L	Received:	03/14/06
Diln Fac:	1.000	Analyzed:	03/23/06
Batch#:	111625		

Field ID: 1065PZ4B Lab ID: 185511-001
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	280	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	280	1.0

Field ID: 1065PZ5B Lab ID: 185511-002
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	230	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	230	1.0

Field ID: 1065MW101 Lab ID: 185511-009
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	600	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	600	1.0

Field ID: 1065PZ2A Lab ID: 185511-010
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	270	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	270	1.0

Field ID: 1065PZ3A Lab ID: 185511-011
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	280	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	280	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	03/13/06
Units:	mg/L	Received:	03/14/06
Diln Fac:	1.000	Analyzed:	03/23/06
Batch#:	111625		

Field ID: DW031306A Lab ID: 185511-012
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	250	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	250	1.0

Field ID: DW031306B Lab ID: 185511-013
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	ND	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	ND	1.0

Type: BLANK Lab ID: QC332816

Analyte	Result	RL
Alkalinity, Bicarbonate	ND	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Units:	mg/L
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC332817	Batch#:	111625
Matrix:	Water	Analyzed:	03/23/06

Spiked	Result	%REC	Limits
200.0	189.7	95	90-110

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	111625
MSS Lab ID:	185610-001	Sampled:	03/14/06
Matrix:	Water	Received:	03/17/06
Units:	mg/L	Analyzed:	03/23/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC332818	368.3	200.0	558.0	95	69-112		
MSD	QC332819		200.0	580.3	106	69-112	4	25

RPD= Relative Percent Difference

Analysis: **Alkalinity** Analysis Date: **03/23/06** H_2SO_4 Normality = **0.0186**

Method: **EPA 310.1 /** SMWW 2320B Batch No: **111625** conc.(mg/L) Na_2CO_3 for QC = **200**

SOP#: Alkalinity_rv 6.doc Analyst: RS

SAMPLE	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alkalinity Volume (4.5-4.2) (mL)	**Low Alkalinity** as $CaCO_3$ (mg/L)	Reporting Limit (mg/L)
185504-001	6.96	25	0.00	11.40	424.08		n/a	1.0
185504-002	7.08	25	0.00	14.50	539.40		n/a	1.0
185511-001	7.00	25	0.00	7.50	279.00		n/a	1.0
185511-002	7.00	25	0.00	6.10	226.92		n/a	1.0
185511-009	6.83	25	0.00	16.20	602.64		n/a	1.0
185511-010	7.05	25	0.00	7.30	271.56		n/a	1.0
185511-011	7.01	25	0.00	7.50	279.00		n/a	1.0
185511-012	7.09	25	0.00	6.80	252.96		n/a	1.0
185511-013	4.46	25	0.00	0.00	ND		n/a	1.0
185514-001	8.96	1	0.70	12.30	11439.00		n/a	25.0
185514-002	9.04	5	4.90	39.00	7254.00		n/a	5.0
185514-004	9.61	5	2.50	5.50	1023.00		n/a	5.0
185514-005	8.22	5	0.00	32.20	5989.20		n/a	5.0
185610-001	7.17	25	0.00	9.90	368.28		n/a	1.0
185610-002	7.08	25	0.00	14.90	554.28		n/a	1.0

QC DATA	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alk Vol (mL)	**Low Alk** as $CaCO_3$ (mg/L)	RL (mg/L)	% Rec.	% RPD
MB	5.2	25	0.00	0.00	ND			1.0		
LCS	9.85	25	2.05	5.10	189.72			1.0	95	
185610-001	7.17	25	0.00	9.90	368.28			1.0		
MS	8	25	0.00	15.00	558.00			1.0	95	
MSD	8.2	25	0.00	15.60	580.32			1.0	106	4

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QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	25	80 - 120

Reviewed by/ Date: 3-23-6

Analysis: **Alkalinity** Analysis Date: 03/23/06 H_2SO_4 Normality = 0.0186

Method: **EPA 310.1** Batch No: 111625 Analyst: RS

SAMPLE	(P)	(T-P)	Total Alkalinty as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity	Carbonate Alkalinity	Hydroxide Alkalinity
				as $CaCO_3$ (mg/L)		
185504-001	0.0	424.1	424.08	424.080	0.000	0.000
185504-002	0.0	539.4	539.4	539.400	0.000	0.000
185511-001	0.0	279.0	279	279.000	0.000	0.000
185511-002	0.0	226.9	226.92	226.920	0.000	0.000
185511-009	0.0	602.6	602.64	602.640	0.000	0.000
185511-010	0.0	271.6	271.56	271.560	0.000	0.000
185511-011	0.0	279.0	279	279.000	0.000	0.000
185511-012	0.0	253.0	252.96	252.960	0.000	0.000
185511-013	0.0	0.0	ND	0.000	0.000	0.000
185514-001	651.0	10788.0	11439	10137.000	1302.000	0.000
185514-002	911.4	6342.6	7254	5431.200	1822.800	0.000
185514-004	465.0	558.0	1023	93.000	930.000	0.000
185514-005	0.0	5989.2	5989.2	5989.200	0.000	0.000
185610-001	0.0	368.3	368.28	368.280	0.000	0.000
185610-002	0.0	554.3	554.28	554.280	0.000	0.000

P: Phenolphthalein Alkalinity (using volume to pH 8.3)
T-P: Total Alkalinity minus Phenolphthalein Alkalinity

Carbonate Alkalinity = 2x the smaller of P or (T-P)
Bicarbonate Alkalinity = (T-2P) when P < (T-P)
Hydroxide Alkalinity = (2P-T) when (T-P) < P

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Analysis: **Alkalinity** Analysis Date: 03/23/06 H_2SO_4 Normality = 0.0186

Method: **EPA 310.1** Batch No: 111625 Analyst: RS

SAMPLE	**Total Alkalinty** as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity **as HCO_3^- (mg/L)**	Carbonate Alkalinity **as CO_3^{2-} (mg/L)**	Hydroxide Alkalinity **as OH^- (mg/L)**
185504-001	424.08	517.06	0.000	0.00
185504-002	539.4	657.66	0.000	0.00
185511-001	279	340.17	0.000	0.00
185511-002	226.92	276.67	0.000	0.00
185511-009	602.64	734.77	0.000	0.00
185511-010	271.56	331.10	0.000	0.00
185511-011	279	340.17	0.000	0.00
185511-012	252.96	308.42	0.000	0.00
185511-013	ND	0.00	0.000	0.00
185514-001	11439	12359.51	780.770	0.00
185514-002	7254	6621.97	1093.078	0.00
185514-004	1023	113.39	557.693	0.00
185514-005	5989.2	7302.31	0.000	0.00
185610-001	368.28	449.02	0.000	0.00
185610-002	554.28	675.80	0.000	0.00

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Alkalinity Benchbook EPA 310.1 / SMWW 2320B Curtis & Tompkins, Ltd.

LIMS Batch #: 111625 Date: 3-23-06 Benchbook#: **BK 2255**
Matrix: H_2O Time: 11:30 Page: **18**

CAL-ph 4.0: SS#: 055514
CAL-ph 7.0: SS#: 5177
CAL-ph 10.0: SS#: 51169
Slope: 96.9
(slope limits: 92 - 102)

$CaCO_3$ Vol (mgL) Spiked: 5
$CaCO_3$ Conc (mg/L): 1,000
$CaCO_3$ WS#: 51576
H_2SO_4 Normality: 0.0186
H_2SO_4 Reagent ID: 7-27-06

	Sample # / Letter	Sample Vol. Titrated (mL)	Initial pH (S.U.)	H_2SO_4 Vol (mL) to pH 8.3	H_2SO_4 Vol (mL) to pH 4.5 *	Low Alk TotalVol (mL)	Comments
1	MB	25	5.20	—	<0.05		
	LCS	↓	9.85	2.05	5.10		
	185504-001H	RS3123 ~~6-9~~ 25	6.96	—	11.40		
	-002↓	25	7.08	—	14.50 ~~13.50~~		
5	185511-001F		7.00	—	7.50		
	-002↓		7.00	—	6.10		
	-009K		6.83	—	16.20		
	-010H		7.05	—	7.30		
	-011F		7.01	—	7.50		
10	-012P		7.09	—	6.80		
	-013 □	↓	4.46	—	ND		
	185514-001B		8.96	0.70	12.30		
	-002	5	9.04	4.90	39.00		
	~~-003~~	~~95~~	~~8.13~~	~~—~~	~~8.50~~	RS 3/23/06	~~0.5g → 25mL~~
15	-004	5	9.61	2.5	5.50		
	-005↓	5	8.22	—	32.20		
	185610-001I	25	7.17	—	9.90		
	-002↓		7.08	—	14.90		
	MS -001		8.00	—	15.00		
20	MSD -001↓	↓	8.20	—	15.60		
				RS	3/23/06		

* If Acid Vol to 4.5 is < 2.0mL, redo using 100mL sample volume. If still < 2.0mL, go on to Low Alkalini

RSCuffa 3/23/06
Analyst / Date

3-23-6
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111625
Date Started: 23-MAR-2006
Batched by : Radia Shiffa

Analysis : ALKALINITY
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185504-001			Camp, Dresser & Mc	Water	ALKALINITY	24-MAR-2006
185504-002			Camp, Dresser & Mc	Water	ALKALINITY	24-MAR-2006
185511-001			Treadwell & Rollo	Water	ALKALINITY	24-MAR-2006
185511-002			Treadwell & Rollo	Water	ALKALINITY	24-MAR-2006
185511-009			Treadwell & Rollo	Water	ALKALINITY	24-MAR-2006
185511-010			Treadwell & Rollo	Water	ALKALINITY	24-MAR-2006
185511-011			Treadwell & Rollo	Water	ALKALINITY	24-MAR-2006
185511-012			Treadwell & Rollo	Water	ALKALINITY	24-MAR-2006
185511-013			Treadwell & Rollo	Water	ALKALINITY	24-MAR-2006
185514-001			New Logic Research	Water	ALKALINITY	24-MAR-2006
185514-002			New Logic Research	Water	ALKALINITY	24-MAR-2006
185514-004			New Logic Research	Water	ALKALINITY	24-MAR-2006
185514-005			New Logic Research	Water	ALKALINITY	24-MAR-2006
185610-001			Mactec, Inc.	Water	ALKALINITY	24-MAR-2006
185610-002			Mactec, Inc.	Water	ALKALINITY	24-MAR-2006
QC332816	BLANK			Water	ALKALINITY	
QC332817	LCS			Water	ALKALINITY	
QC332818	MS	of 185610-001		Water	ALKALINITY	
QC332819	MSD	of 185610-001		Water	ALKALINITY	

Curtis & Tompkins, Ltd.

Chloride

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Units:	mg/L
Matrix:	Water	Received:	03/14/06

Field ID	Type	Lab ID	Result	RL	Diln Fac	Batch#	Sampled	Analyzed
1065PZ4B	SAMPLE	185511-001	50	1.0	5.000	111306	03/13/06 15:50	03/14/06 17:27
1065PZ5B	SAMPLE	185511-002	40	1.0	5.000	111306	03/13/06 16:20	03/14/06 17:08
1065MW101	SAMPLE	185511-009	43	1.0	5.000	111351	03/13/06 15:50	03/16/06 01:24
1065PZ2A	SAMPLE	185511-010	90	1.0	5.000	111351	03/13/06 14:05	03/16/06 01:42
1065PZ3A	SAMPLE	185511-011	32	0.40	2.000	111351	03/13/06 12:35	03/16/06 02:01
DW031306A	SAMPLE	185511-012	ND	0.20	1.000	111351	03/13/06 07:00	03/15/06 14:10
DW031306B	SAMPLE	185511-013	ND	0.20	1.000	111351	03/13/06 10:00	03/15/06 14:29
	BLANK	QC331502	ND	0.20	1.000	111306		03/14/06 14:59
	BLANK	QC331695	ND	0.20	1.000	111351		03/15/06 12:00

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Fluoride

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Diln Fac:	1.000
Matrix:	Water	Received:	03/14/06
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Batch#	Sampled	Analyzed
1065PZ4B	SAMPLE	185511-001	ND	0.10	111306	03/13/06 15:50	03/14/06 16:13
1065PZ5B	SAMPLE	185511-002	ND	0.10	111306	03/13/06 16:20	03/14/06 15:55
1065MW101	SAMPLE	185511-009	0.25	0.10	111351	03/13/06 15:50	03/15/06 15:24
1065PZ2A	SAMPLE	185511-010	0.29	0.10	111351	03/13/06 14:05	03/15/06 15:05
1065PZ3A	SAMPLE	185511-011	0.28	0.10	111351	03/13/06 12:35	03/15/06 14:47
DW031306A	SAMPLE	185511-012	ND	0.10	111351	03/13/06 07:00	03/15/06 14:10
DW031306B	SAMPLE	185511-013	ND	0.10	111351	03/13/06 10:00	03/15/06 14:29
	BLANK	QC331502	ND	0.10	111306		03/14/06 14:59
	BLANK	QC331695	ND	0.10	111351		03/15/06 12:00

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrate Nitrogen

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Diln Fac:	1.000
Matrix:	Water	Received:	03/14/06
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Batch#	Sampled	Analyzed
1065PZ4B	SAMPLE	185511-001	4.0	0.05	111306	03/13/06 15:50	03/14/06 16:13
1065PZ5B	SAMPLE	185511-002	3.5	0.05	111306	03/13/06 16:20	03/14/06 15:55
1065MW101	SAMPLE	185511-009	ND	0.05	111351	03/13/06 15:50	03/15/06 15:24
1065PZ2A	SAMPLE	185511-010	ND	0.05	111351	03/13/06 14:05	03/15/06 15:05
1065PZ3A	SAMPLE	185511-011	0.17	0.05	111351	03/13/06 12:35	03/15/06 14:47
DW031306A	SAMPLE	185511-012	ND	0.05	111351	03/13/06 07:00	03/15/06 14:10
DW031306B	SAMPLE	185511-013	ND	0.05	111351	03/13/06 10:00	03/15/06 14:29
	BLANK	QC331502	ND	0.05	111306		03/14/06 14:59
	BLANK	QC331695	ND	0.05	111351		03/15/06 12:00

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrite Nitrogen

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Diln Fac:	1.000
Matrix:	Water	Received:	03/14/06
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Batch#	Sampled	Analyzed
1065PZ4B	SAMPLE	185511-001	ND	0.05	111306	03/13/06 15:50	03/14/06 16:13
1065PZ5B	SAMPLE	185511-002	ND	0.05	111306	03/13/06 16:20	03/14/06 15:55
1065MW101	SAMPLE	185511-009	ND	0.05	111351	03/13/06 15:50	03/15/06 15:24
1065PZ2A	SAMPLE	185511-010	ND	0.05	111351	03/13/06 14:05	03/15/06 15:05
1065PZ3A	SAMPLE	185511-011	ND	0.05	111351	03/13/06 12:35	03/15/06 14:47
DW031306A	SAMPLE	185511-012	ND	0.05	111351	03/13/06 07:00	03/15/06 14:10
DW031306B	SAMPLE	185511-013	ND	0.05	111351	03/13/06 10:00	03/15/06 14:29
	BLANK	QC331502	ND	0.05	111306		03/14/06 14:59
	BLANK	QC331695	ND	0.05	111351		03/15/06 12:00

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Sulfate

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Units:	mg/L
Matrix:	Water	Received:	03/14/06

Field ID	Type	Lab ID	Result	RL	Diln Fac	Batch#	Sampled	Analyzed
1065PZ4B	SAMPLE	185511-001	60	2.5	5.000	111306	03/13/06 15:50	03/14/06 17:27
1065PZ5B	SAMPLE	185511-002	80	2.5	5.000	111306	03/13/06 16:20	03/14/06 17:08
1065MW101	SAMPLE	185511-009	ND	0.50	1.000	111351	03/13/06 15:50	03/15/06 15:24
1065PZ2A	SAMPLE	185511-010	18	0.50	1.000	111351	03/13/06 14:05	03/15/06 15:05
1065PZ3A	SAMPLE	185511-011	20	0.50	1.000	111351	03/13/06 12:35	03/15/06 14:47
DW031306A	SAMPLE	185511-012	ND	0.50	1.000	111351	03/13/06 07:00	03/15/06 14:10
DW031306B	SAMPLE	185511-013	ND	0.50	1.000	111351	03/13/06 10:00	03/15/06 14:29
	BLANK	QC331502	ND	0.50	1.000	111306		03/14/06 14:59
	BLANK	QC331695	ND	0.50	1.000	111351		03/15/06 12:00

ND= Not Detected
RL= Reporting Limit

Batch QC Report

Chloride

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Units:	mg/L
Matrix:	Water		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Sampled	Received	Analyzed
	BS		QC331503		4.000	3.832	96	80-120			1.000	111306			03/14/06 15:18
	BSD		QC331504		4.000	3.869	97	80-120	1	20	1.000	111306			03/14/06 15:36
1065PZ4B	MS	185511-001	QC331505	50.10	20.00	70.26	101	80-120			10.00	111306	03/13/06 15:50	03/14/06	03/14/06 19:33
1065PZ4B	MSD	185511-001	QC331506		20.00	70.37	101	80-120	0	25	10.00	111306	03/13/06 15:50	03/14/06	03/14/06 19:52
	BS		QC331696		4.000	3.857	96	80-120			1.000	111351			03/15/06 12:24
	BSD		QC331697		4.000	3.715	93	80-120	4	20	1.000	111351			03/15/06 12:51
ZZZZZZZZZZ	MS	185541-003	QC331698	103.4	100.0	202.8	99	80-120			50.00	111351	03/14/06 10:25	03/15/06	03/15/06 19:34
ZZZZZZZZZZ	MSD	185541-003	QC331699		100.0	202.6	99	80-120	0	25	50.00	111351	03/14/06 10:25	03/15/06	03/15/06 19:53

637

RPD= Relative Percent Difference

78.0

Curtis & Tompkins, Ltd.

Batch QC Report

Fluoride

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Units:	mg/L
Matrix:	Water		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Sampled	Received	Analyzed
	BS		QC331503		2.000	1.907	95	80-120			1.000	111306			03/14/06 15:18
	BSD		QC331504		2.000	1.954	98	80-120	2	20	1.000	111306			03/14/06 15:36
1065PZ4B	MS	185511-001	QC331505	<0.02324	10.00	9.288	93	77-120			10.00	111306	03/13/06 15:50	03/14/06	03/14/06 19:33
1065PZ4B	MSD	185511-001	QC331506		10.00	9.205	92	77-120	1	20	10.00	111306	03/13/06 15:50	03/14/06	03/14/06 19:52
	BS		QC331696		2.000	1.976	99	80-120			1.000	111351			03/15/06 12:24
	BSD		QC331697		2.000	1.903	95	80-120	4	20	1.000	111351			03/15/06 12:51
ZZZZZZZZZZ	MS	185541-003	QC331698	<1.162	50.00	43.23	86	77-120			50.00	111351	03/14/06 10:25	03/15/06	03/15/06 19:34
ZZZZZZZZZZ	MSD	185541-003	QC331699		50.00	43.08	86	77-120	0	20	50.00	111351	03/14/06 10:25	03/15/06	03/15/06 19:53

638

RPD= Relative Percent Difference

80.0

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrate Nitrogen

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Units:	mg/L
Matrix:	Water		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Sampled	Received	Analyzed
	BS		QC331503		1.000	0.9797	98	80-120			1.000	111306			03/14/06 15:18
	BSD		QC331504		1.000	0.9841	98	80-120	0	20	1.000	111306			03/14/06 15:36
1065PZ4B	MS	185511-001	QC331505	4.005	5.000	8.864	97	80-120			10.00	111306	03/13/06 15:50	03/14/06	03/14/06 19:33
1065PZ4B	MSD	185511-001	QC331506		5.000	8.463	89	80-120	5	25	10.00	111306	03/13/06 15:50	03/14/06	03/14/06 19:52
	BS		QC331696		1.000	0.9887	99	80-120			1.000	111351			03/15/06 12:24
	BSD		QC331697		1.000	0.9395	94	80-120	5	20	1.000	111351			03/15/06 12:51
ZZZZZZZZZZ	MS	185541-003	QC331698	<0.008826	25.00	23.80	95	80-120			50.00	111351	03/14/06 10:25	03/15/06	03/15/06 19:34
ZZZZZZZZZZ	MSD	185541-003	QC331699		25.00	23.26	93	80-120	2	25	50.00	111351	03/14/06 10:25	03/15/06	03/15/06 19:53

639

RPD= Relative Percent Difference

82.0

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrite Nitrogen

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Units:	mg/L
Matrix:	Water		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Sampled	Received	Analyzed
	BS		QC331503		1.000	0.9419	94	80-120			1.000	111306			03/14/06 15:18
	BSD		QC331504		1.000	0.9605	96	80-120	2	20	1.000	111306			03/14/06 15:36
1065PZ4B	MS	185511-001	QC331505	<0.01206	5.000	4.822	96	80-120			10.00	111306	03/13/06 15:50	03/14/06	03/14/06 19:33
1065PZ4B	MSD	185511-001	QC331506		5.000	4.791	96	80-120	1	25	10.00	111306	03/13/06 15:50	03/14/06	03/14/06 19:52
	BS		QC331696		1.000	0.9732	97	80-120			1.000	111351			03/15/06 12:24
	BSD		QC331697		1.000	0.9249	92	80-120	5	20	1.000	111351			03/15/06 12:51
ZZZZZZZZZZ	MS	185541-003	QC331698	<0.01206	25.00	24.35	97	80-120			50.00	111351	03/14/06 10:25	03/15/06	03/15/06 19:34
ZZZZZZZZZZ	MSD	185541-003	QC331699		25.00	23.69	95	80-120	3	25	50.00	111351	03/14/06 10:25	03/15/06	03/15/06 19:53

640

RPD= Relative Percent Difference

84.0

Curtis & Tompkins, Ltd.

Batch QC Report

Sulfate

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Units:	mg/L
Matrix:	Water		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Sampled	Received	Analyzed
	BS		QC331503		10.00	9.807	98	80-120			1.000	111306			03/14/06 15:18
	BSD		QC331504		10.00	9.844	98	80-120	0	20	1.000	111306			03/14/06 15:36
1065PZ4B	MS	185511-001	QC331505	59.72	50.00	110.5	102	80-120			10.00	111306	03/13/06 15:50	03/14/06	03/14/06 19:33
1065PZ4B	MSD	185511-001	QC331506		50.00	111.5	104	80-120	1	25	10.00	111306	03/13/06 15:50	03/14/06	03/14/06 19:52
	BS		QC331696		10.00	9.681	97	80-120			1.000	111351			03/15/06 12:24
	BSD		QC331697		10.00	9.419	94	80-120	3	20	1.000	111351			03/15/06 12:51
ZZZZZZZZZZ	MS	185541-003	QC331698	32.23	250.0	273.5	97	80-120			50.00	111351	03/14/06 10:25	03/15/06	03/15/06 19:34
ZZZZZZZZZZ	MSD	185541-003	QC331699		250.0	274.6	97	80-120	0	25	50.00	111351	03/14/06 10:25	03/15/06	03/15/06 19:53

641

RPD= Relative Percent Difference

86.0

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185511 IC Water: EPA 300.0

Inst : IC03
Calnum : 626087283001
Units : mg/L

Date : 01-MAR-2006 15:02
X Axis : A

Reviewer: MCH
Inj Vol : 25 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	060_2.000	626087283002	L1	01-MAR-2006 15:02	S1888 (500X)
L2	060_3.000	626087283003	L2	01-MAR-2006 15:20	S1888 (100X)
L3	060_4.000	626087283004	L3	01-MAR-2006 15:39	S1888 (25X)
L4	060_5.000	626087283005	L4	01-MAR-2006 15:57	S1888 (10X)
L5	060_6.000	626087283006	L5	01-MAR-2006 16:15	S1888 (5X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Fluoride	0.1716	0.1970	0.2011	0.2058	0.2193	QORG		0.19367	0.002557	0.1990	1.000	0.990	
Chloride	0.2004	0.1474	0.1573	0.1617	0.1760	QORG		0.14901	0.001346	0.1686	1.000	0.990	
Nitrogen, Nitrite	0.2691	0.2776	0.3037	0.3039	0.3170	QORG		0.29330	0.004711	0.2943	1.000	0.990	
Nitrogen, Nitrate	0.3560	0.3834	0.3978	0.3870	0.4128	QORG		0.37136	0.008191	0.3874	1.000	0.990	
Sulfate	0.1066	0.1006	0.1099	0.1118	0.1203	QORG		0.10436	3.187E-4	0.1099	1.000	0.990	

642

QORG=Quadratic regression forced through origin

Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 300.0

Inst : IC03
Calnum : 626087283001 Date : 01-MAR-2006 15:02 Inj Vol: 25 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	060_2.000	626087283002	L1	01-MAR-2006 15:02	S1888 (500X)
L2	060_3.000	626087283003	L2	01-MAR-2006 15:20	S1888 (100X)
L3	060_4.000	626087283004	L3	01-MAR-2006 15:39	S1888 (25X)
L4	060_5.000	626087283005	L4	01-MAR-2006 15:57	S1888 (10X)
L5	060_6.000	626087283006	L5	01-MAR-2006 16:15	S1888 (5X)

MRS 3/2/06

Analyte	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MnR^2	Flg
Fluoride	0.1716	0.1970	0.2011	0.2058	0.2193	QORG	A		0.19367	0.002557	mg/L	0.1990	1.000	0.990	
Chloride	0.2004	0.1474	0.1573	0.1617	0.1760	QORG	A		0.14901	0.001346	mg/L	0.1686	1.000	0.990	
Nitrogen, Nitrite	0.2691	0.2776	0.3037	0.3039	0.3170	QORG	A		0.29330	0.004711	mg/L	0.2943	1.000	0.990	
Bromide	0.0471	0.0627	0.0663	0.0635	0.0673	QORG	A		0.06168	2.750E-4	mg/L	0.0614	1.000	0.990	
Nitrogen, Nitrate	0.3560	0.3834	0.3978	0.3870	0.4128	QORG	A		0.37136	0.008191	mg/L	0.3874	1.000	0.990	
Orthophosphate (as P)	0.0986	0.1086	0.1241	0.1248	0.1349	QORG	A		0.11651	9.164E-4	mg/L	0.1182	1.000	0.990	NA
Sulfate	0.1066	0.1006	0.1099	0.1118	0.1203	QORG	A		0.10436	3.187E-4	mg/L	0.1099	1.000	0.990	

MRS 3/2/06

643

QORG=Quadratic regression forced through origin

Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

626087283001

Sequence: 060
Operator: ic_analyst

Printed: 3/2/2006 11:25:27 AM

Title: Anions
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006
Timebase: IC3_DX120
#Samples: 8

Created: 8/1/2003 11:03:14 AM by ic_analyst
Last Update: 3/1/2006 4:23:55 PM by ic_analyst

No.	*Batch	Name	Comment	Dil. Factor	Program	Status	Inj. Date/Time
1	CAL-060	IB		1.0000	IC03-7AN	Finished	3/1/2006 2:43:54 PM
2	CAL-060	ICAL, L1,S1888,500		1.0000	IC03-7AN	Finished	3/1/2006 3:02:19 PM
3	CAL-060	ICAL, L2,S1888,100		1.0000	IC03-7AN	Finished	3/1/2006 3:20:44 PM
4	CAL-060	ICAL, L3,S1888,25		1.0000	IC03-7AN	Finished	3/1/2006 3:39:08 PM
5	CAL-060	ICAL, L4,S1888,10		1.0000	IC03-7AN	Finished	3/1/2006 3:57:33 PM
6	CAL-060	ICAL, L5,S1888,5		1.0000	IC03-7AN	Finished	3/1/2006 4:15:58 PM
7	CAL-060	ICV,S1085,5		1.0000	IC03-7AN	Finished	3/1/2006 4:34:23 PM
8	CAL-060	ICB		1.0000	IC03-7AN	Finished	3/1/2006 4:52:47 PM

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Sequence: 060
Operator: ic_analyst
Printed: 3/2/2006 11:25:27 AM

Title: Anions
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006
Timebase: IC3_DX120
#Samples: 8

Created: 8/1/2003 11:03:14 AM by ic_analyst
Last Update: 3/1/2006 4:23:55 PM by ic_analyst

No.	*Batch	Name	Comment	Method	Type	Inj. Vol.	*operator	*PDF
1	CAL-060	IB		IC03-7AN_CAL	Unknown	25.0	MRS	1
2	CAL-060	ICAL, L1,S1888,500		IC03-7AN_CAL	Standard	25.0	MRS	1
3	CAL-060	ICAL, L2,S1888,100		IC03-7AN_CAL	Standard	25.0	MRS	1
4	CAL-060	ICAL, L3,S1888,25		IC03-7AN_CAL	Standard	25.0	MRS	1
5	CAL-060	ICAL, L4,S1888,10		IC03-7AN_CAL	Standard	25.0	MRS	1
6	CAL-060	ICAL, L5,S1888,5		IC03-7AN_CAL	Standard	25.0	MRS	1
7	CAL-060	ICV,S1085,5		IC03-7AN_CAL	Unknown	25.0	MRS	1
8	CAL-060	ICB		IC03-7AN_CAL	Unknown	25.0	MRS	1

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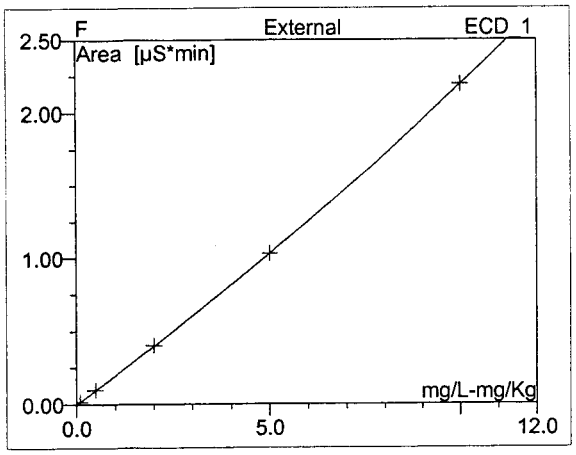
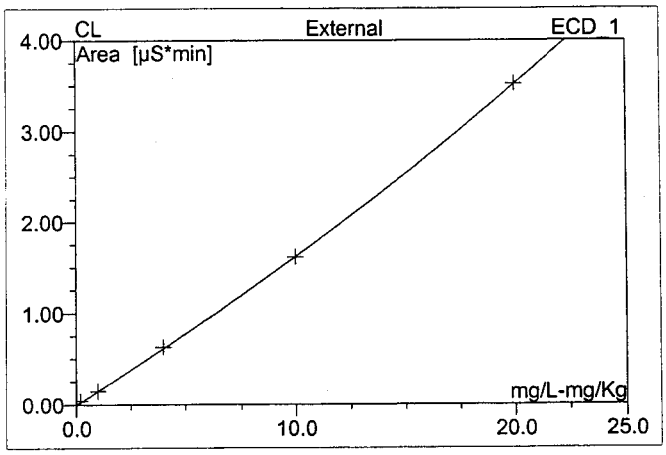
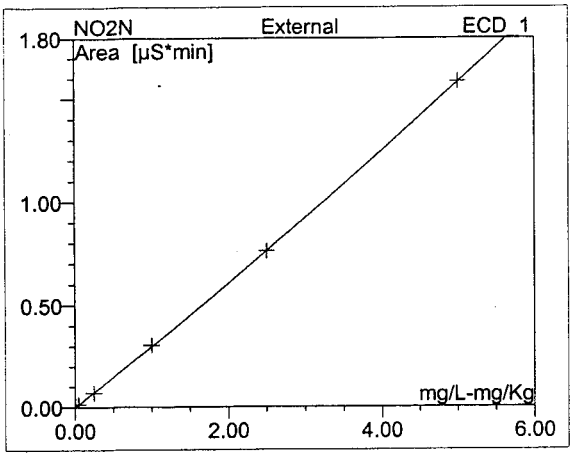
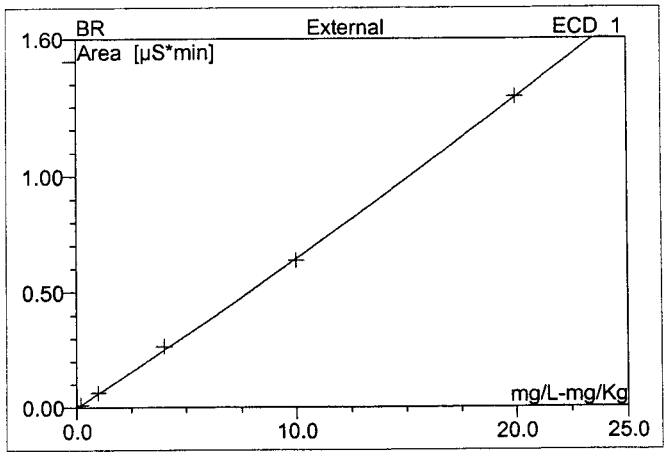
IC03 Calibration Batch Report

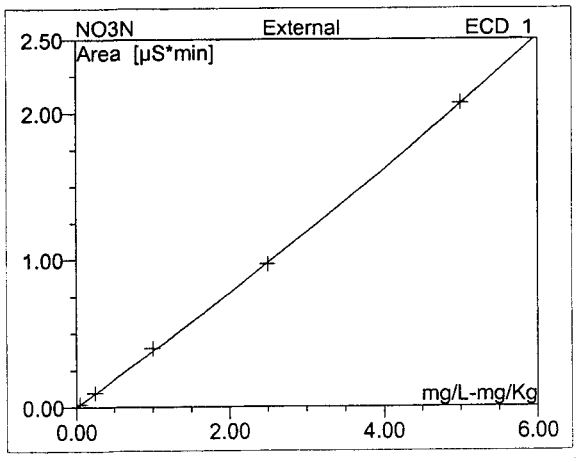
Sequence:	060	Inj. Vol.:	25.0
Program:	IC03-7AN	Operator:	PC_NEWIC
Inj. Date/Time:	03/01/06 15:39	Run Time:	16.00

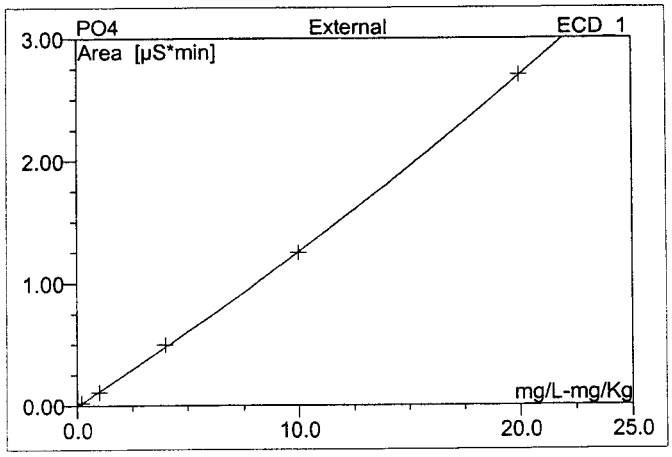




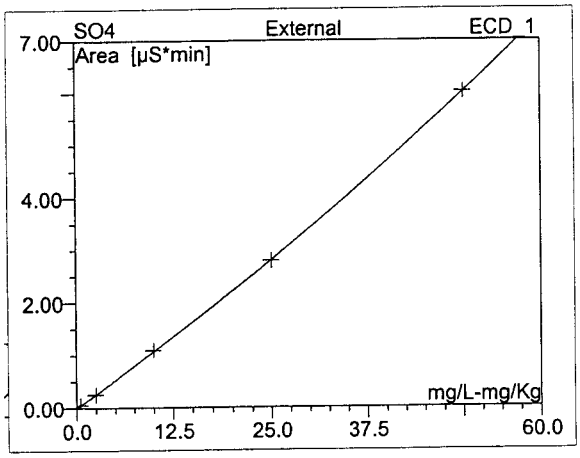








Sequence:	**060**	*Inj. Vol.:*	**25.0**
Program:	**IC03-7AN**	*Operator:*	**n.a.**
Inj. Date/Time:	**03/01/06 15:39**	*Run Time:*	**16.00**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	2.870	F	Quad	5	0.000000	0.193669	0.002557	99.951556
2	4.217	CL	Quad	5	0.000000	0.149009	0.001346	99.909274
3	5.010	NO2N	Quad	5	0.000000	0.293301	0.004711	99.980499
4	6.363	BR	Quad	5	0.000000	0.061677	0.000275	99.961186
5	7.183	NO3N	Quad	5	0.000000	0.371363	0.008191	99.950755
6	9.350	PO4	Quad	5	0.000000	0.116513	0.000916	99.934448
7	11.167	SO4	Quad	5	0.000000	0.104363	0.000319	99.936780
			AVERAGE:		0.000000	0.184271	0.002616	99.946357

No.	Name	Area µS*min F ECD_1	Area µS*min CL ECD_1	Area µS*min NO2N ECD_1	Area µS*min BR ECD_1	Area µS*min NO3N ECD_1	Area µS*min PO4 ECD_1	Area µS*min SO4 ECD_1
2	ICAL, L1,S18	0.017161	0.040074	0.013455	0.009416	0.017801	0.019729	0.053320
3	ICAL, L2,S18	0.098503	0.147367	0.069403	0.062700	0.095842	0.108648	0.251558
4	ICAL, L3,S18	0.402286	0.629116	0.303748	0.265105	0.397785	0.496547	1.098657
5	ICAL, L4,S18	1.029135	1.617474	0.759872	0.635291	0.967493	1.248459	2.795566
6	ICAL, L5,S18	2.192959	3.519967	1.584757	1.345233	2.063887	2.698316	6.017213

No.	Name	Height µS F ECD_1	Height µS CL ECD_1	Height µS NO2N ECD_1	Height µS BR ECD_1	Height µS NO3N ECD_1	Height µS PO4 ECD_1	Height µS SO4 ECD_1
2	ICAL, L1,S18	0.119928	0.332400	0.084748	0.057026	0.074652	0.061912	0.150120
3	ICAL, L2,S18	0.624736	1.151678	0.427428	0.312212	0.389908	0.332100	0.786078
4	ICAL, L3,S18	2.934282	5.019222	1.815278	1.334402	1.670152	1.537158	3.389914
5	ICAL, L4,S18	7.925782	12.944296	4.498282	3.261344	4.151488	4.029644	8.663126
6	ICAL, L5,S18	18.187422	28.959684	9.537670	7.026382	9.031478	9.108810	19.245860

No.	Name	Amount mg/L-mg/Kg F ECD_1	Amount mg/L-mg/Kg CL ECD_1	Amount mg/L-mg/Kg NO2N ECD_1	Amount mg/L-mg/Kg BR ECD_1	Amount mg/L-mg/Kg NO3N ECD_1	Amount mg/L-mg/Kg PO4 ECD_1	Amount mg/L-mg/Kg SO4 ECD_1
2	ICAL, L1,S18	0.088509	0.268287	0.045841	0.152565	0.047883	0.169101	0.510110
3	ICAL, L2,S18	0.505245	0.980298	0.235735	1.012006	0.256628	0.925752	2.392929
4	ICAL, L3,S18	2.023146	4.072203	1.018944	4.218898	1.046971	4.127700	10.208976
5	ICAL, L4,S18	4.985728	9.958921	2.491093	9.866203	2.470614	9.938275	24.894346
6	ICAL, L5,S18	10.002414	20.006659	5.001430	20.023174	5.005056	20.009590	50.016725

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\073.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/14/2006 3:49:55 PM by ic_analyst

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Inhibit Integration	On	ECD_1
2	2.250	Sensitivity	0.001 "[Signal]"	ECD_1
3	2.250	Minimum Area	0.001 "[Signal]*min"	ECD_1
4	2.250	Peak Slice	0.50 s	ECD_1
5	2.500	Inhibit Integration	Off	ECD_1

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\073.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/14/2006 3:49:55 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Amount ICAL, L1,S1888,500
1	F	2.860 min	5.000 RG	External	Area	Quad	Auto		0.100000
2	CL	4.200 min	5.000 RG	External	Area	Quad	Auto		0.200000
3	NO2N	5.000 min	5.000 RG	External	Area	Quad	Auto		0.050000
4	BR	6.377 min	5.000 RG	External	Area	Quad	Auto		0.200000
5	NO3N	7.207 min	10.000 RG	External	Area	Quad	Auto		0.050000
6	*PO4*	*9.213 min*	*10.000 RG*	*External*	*Area*	*Quad*	*Auto*		*0.200000*
7	SO4	10.970 min	10.000 RG	External	Area	Quad	Auto		0.500000

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\073.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/14/2006 3:49:55 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Amount ICAL, L2,S1888,100	Amount ICAL, L3,S1888,25	Amount ICAL, L4,S1888,10	Amount ICAL, L5,S1888,5	Comment
1	F	2.860 min	0.500000	2.000000	5.000000	10.000000	
2	CL	4.200 min	1.000000	4.000000	10.000000	20.000000	
3	NO2N	5.000 min	0.250000	1.000000	2.500000	5.000000	
4	BR	6.377 min	1.000000	4.000000	10.000000	20.000000	
5	NO3N	7.207 min	0.250000	1.000000	2.500000	5.000000	
6	*PO4*	*9.213 min*	*1.000000*	*4.000000*	*10.000000*	*20.000000*	
7	SO4	10.970 min	2.500000	10.000000	25.000000	50.000000	

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\073.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/14/2006 3:49:55 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Resp.Fact.	Amount ICAL, L1,S1888,500	Amount ICAL, L2,S1888,100	Amount ICAL, L3,S1888,25	Amount ICAL, L4,S1888,10
1	F	2.860 min	1.000000	0.100000	0.500000	2.000000	5.000000
2	CL	4.200 min	1.000000	0.200000	1.000000	4.000000	10.000000
3	NO2N	5.000 min	1.000000	0.050000	0.250000	1.000000	2.500000
4	BR	6.377 min	1.000000	0.200000	1.000000	4.000000	10.000000
5	NO3N	7.207 min	1.000000	0.050000	0.250000	1.000000	2.500000
6	*PO4*	*9.213 min*	*1.000000*	*0.200000*	*1.000000*	*4.000000*	*10.000000*
7	SO4	10.970 min	1.000000	0.500000	2.500000	10.000000	25.000000

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Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\073.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/14/2006 3:49:55 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Amount ICAL, L5,S1888,5	Comment
1	F	2.860 min	10.000000	
2	CL	4.200 min	20.000000	
3	NO2N	5.000 min	5.000000	
4	BR	6.377 min	20.000000	
5	NO3N	7.207 min	5.000000	
6	*PO4*	*9.213 min*	*20.000000*	
7	SO4	10.970 min	50.000000	

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\073.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/14/2006 3:49:55 PM by ic_analyst

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time
1	☒	ICAL, L1,S1888,500	2	179	25.0	1.0000	1.0000	1.0000	3/1/2006 3:02:19 PM
2	☒	ICAL, L2,S1888,100	3	179	25.0	1.0000	1.0000	1.0000	3/1/2006 3:20:44 PM
3	☒	ICAL, L3,S1888,25	4	180	25.0	1.0000	1.0000	1.0000	3/1/2006 3:39:08 PM
4	☒	ICAL, L4,S1888,10	5	181	25.0	1.0000	1.0000	1.0000	3/1/2006 3:57:33 PM
5	☒	ICAL, L5,S1888,5	6	182	25.0	1.0000	1.0000	1.0000	3/1/2006 4:15:58 PM

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Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\073.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/14/2006 3:49:55 PM by ic_analyst

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Calib. Comment
1	☒	ICAL, L1,S1888,500	Ok
2	☒	ICAL, L2,S1888,100	Ok
3	☒	ICAL, L3,S1888,25	Ok
4	☒	ICAL, L4,S1888,10	Ok
5	☒	ICAL, L5,S1888,5	Ok

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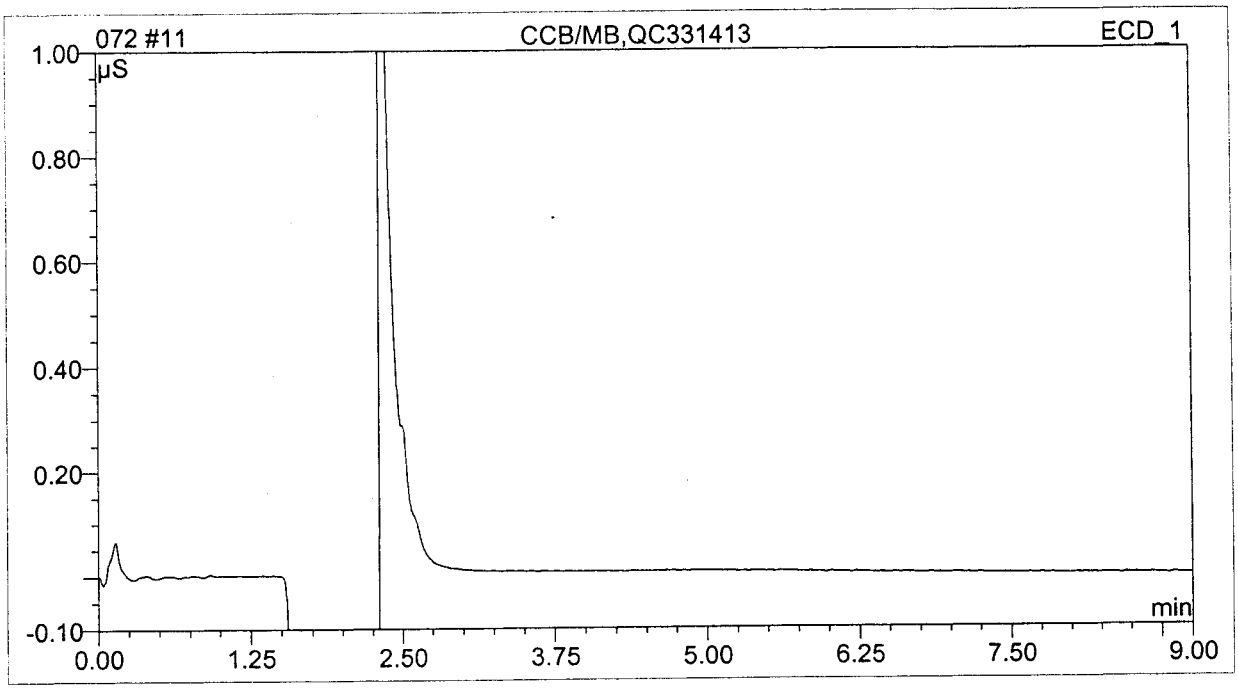
PERCHLORATE ANALYSIS REPORT DX320 - IC02

Sample Name:	CCB/MB,QC331413	**Sample No.:**	11
Sequence Name:	072	**Batch #:**	111285
Program Method:	IC02-CLO4	**Injection vol.:**	750.0
Quantitation Method:	IC02-CLO4_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC02-CLO4_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/13/2006 12:13 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount ug/L-ug/Kg	Amount ug/L-ug/Kg	Comment
n.a.	Perchlorate	n.a.	n.a.	n.a.	n.a.	ft s a10539346



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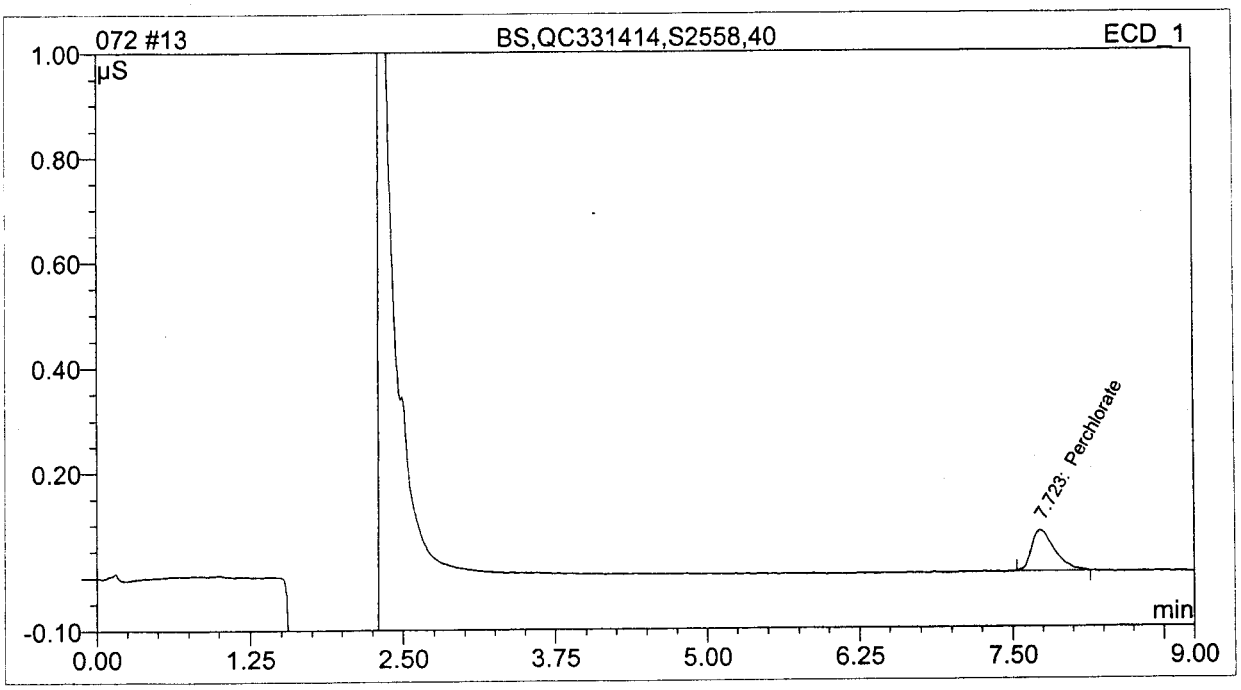
REVIEWED BY:

Curtis & Tompkins, Ltd.

PERCHLORATE ANALYSIS REPORT DX320 - IC02

Sample Name:	BS,QC331414,S2558,40	**Sample No.:**	13
Sequence Name:	072	**Batch #:**	111285
Program Method:	IC02-CLO4	**Injection vol.:**	750.0
Quantitation Method:	IC02-CLO4_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC02-CLO4_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/13/2006 12:40 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount ug/L-ug/Kg	Amount ug/L-ug/Kg	Comment
1	Perchlorate	7.723	0.017205	27.2991	27.2991	ft s a01539346



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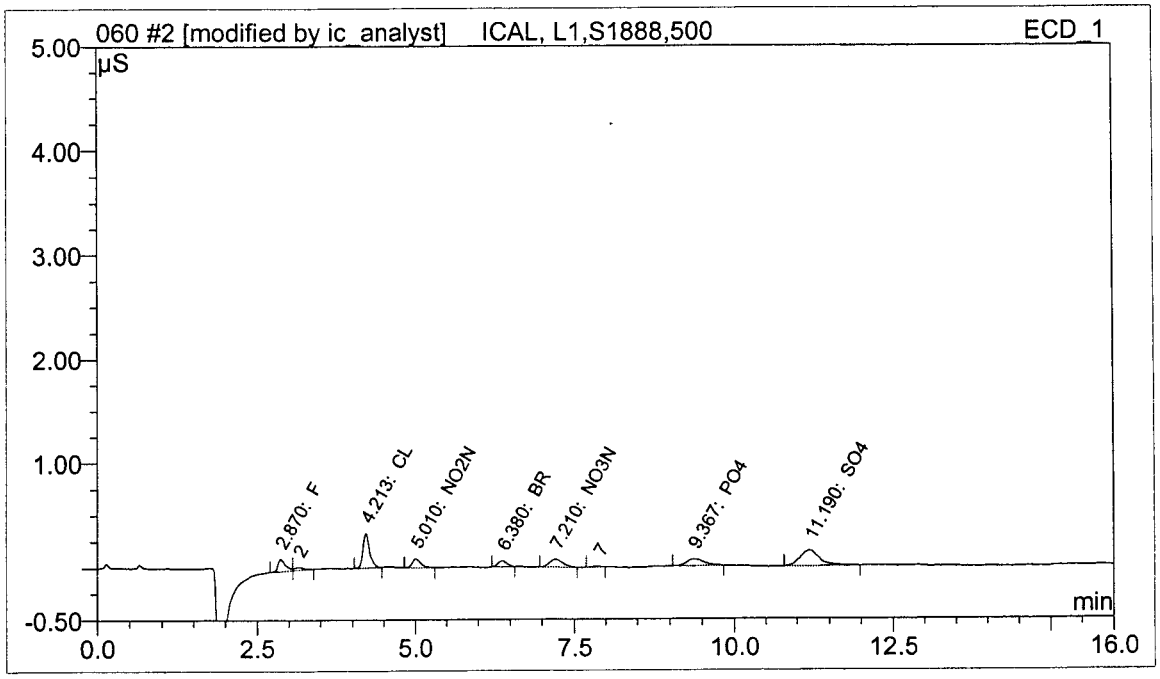
ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L1,S1888,500	**Sample No.:**	2
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:02 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.017161	0.0885	0.0885	
3	CL	4.213	0.040074	0.2683	0.2683	
4	NO2N	5.010	0.013455	0.0458	0.0458	
5	BR	6.380	0.009416	0.1526	0.1526	
6	NO3N	7.210	0.017801	0.0479	0.0479	
8	PO4	9.367	0.019729	0.1691	0.1691	
9	SO4	11.190	0.053320	0.5101	0.5101	



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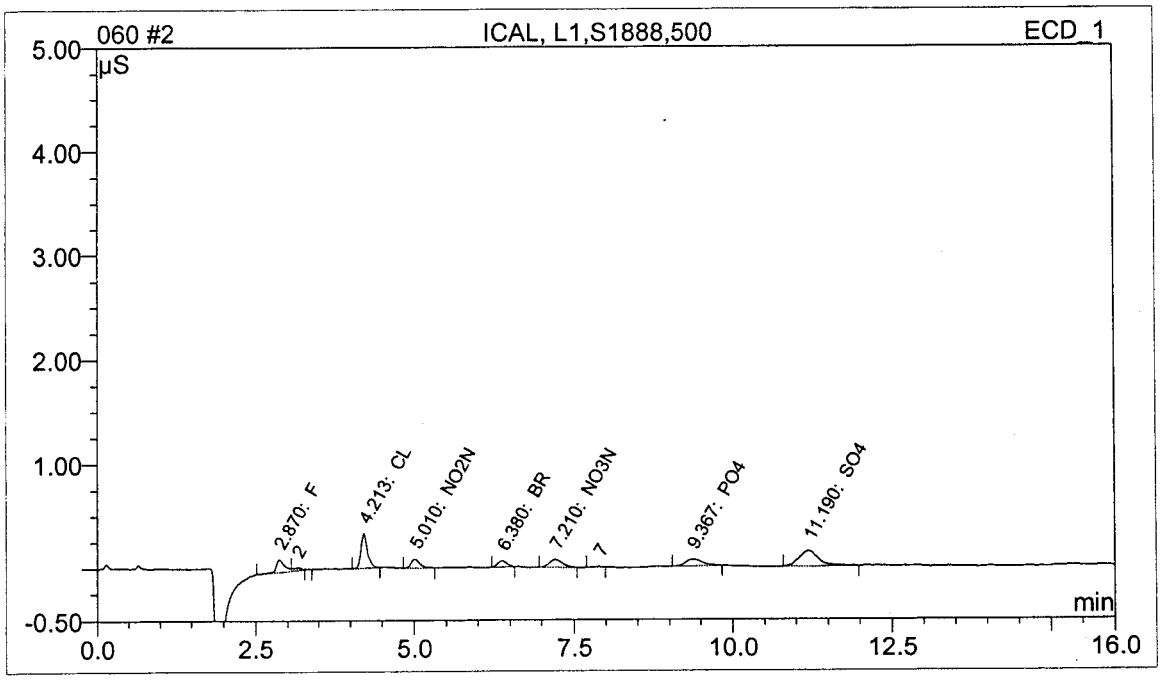
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L1,S1888,500	**Sample No.:**	2
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:02 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.023606	0.1216	0.1216	
3	CL	4.213	0.040074	0.2683	0.2683	
4	NO2N	5.010	0.013455	0.0458	0.0458	
5	BR	6.380	0.009416	0.1526	0.1526	
6	NO3N	7.210	0.017801	0.0479	0.0479	
8	PO4	9.367	0.019729	0.1691	0.1691	
9	SO4	11.190	0.053320	0.5101	0.5101	



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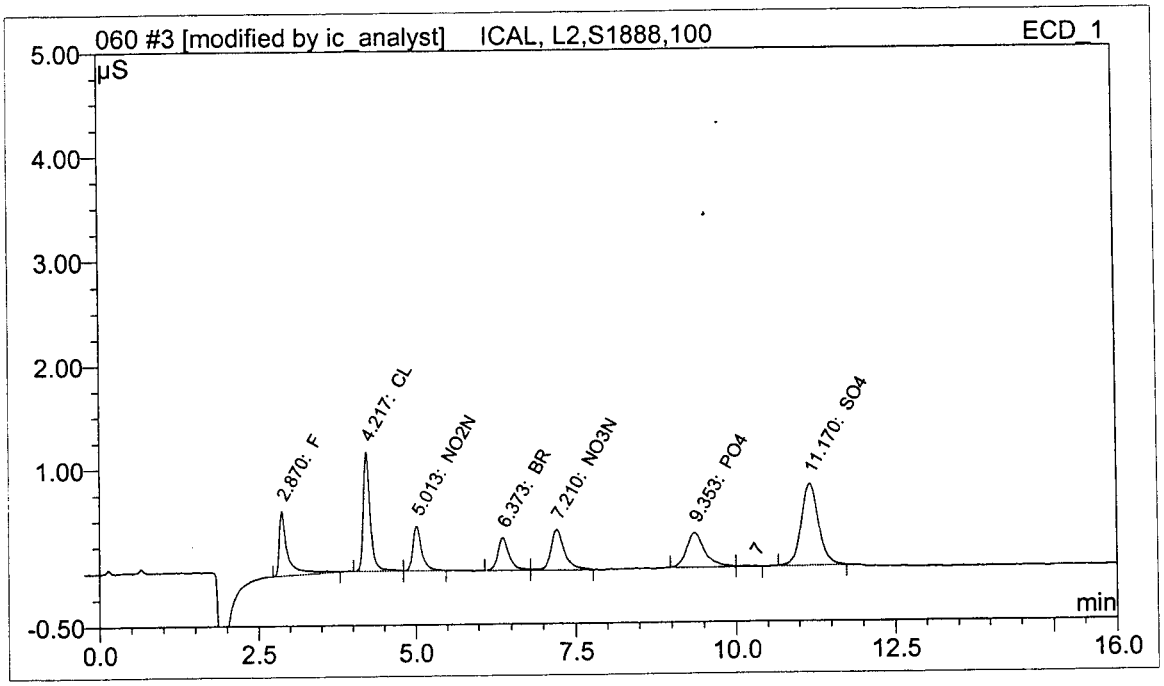
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L2,S1888,100	**Sample No.:**	3
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:20 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.098503	0.5052	0.5052	
2	CL	4.217	0.147367	0.9803	0.9803	
3	NO2N	5.013	0.069403	0.2357	0.2357	
4	BR	6.373	0.062700	1.0120	1.0120	
5	NO3N	7.210	0.095842	0.2566	0.2566	
6	PO4	9.353	0.108648	0.9258	0.9258	
8	SO4	11.170	0.251558	2.3929	2.3929	



ANALYZED BY: _____

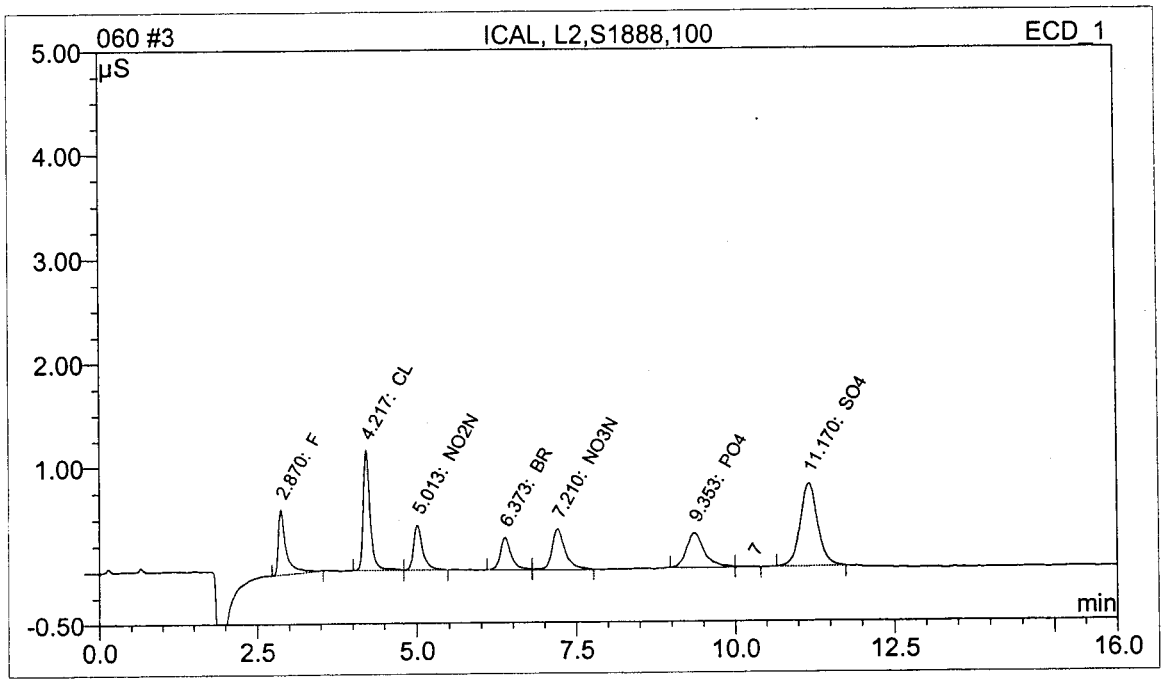
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L2,S1888,100	**Sample No.:**	3
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:20 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.089672	0.4613	0.4613	
2	CL	4.217	0.147367	0.9803	0.9803	
3	NO2N	5.013	0.069403	0.2357	0.2357	
4	BR	6.373	0.062700	1.0120	1.0120	
5	NO3N	7.210	0.095842	0.2566	0.2566	
6	PO4	9.353	0.108648	0.9258	0.9258	
8	SO4	11.170	0.251558	2.3929	2.3929	



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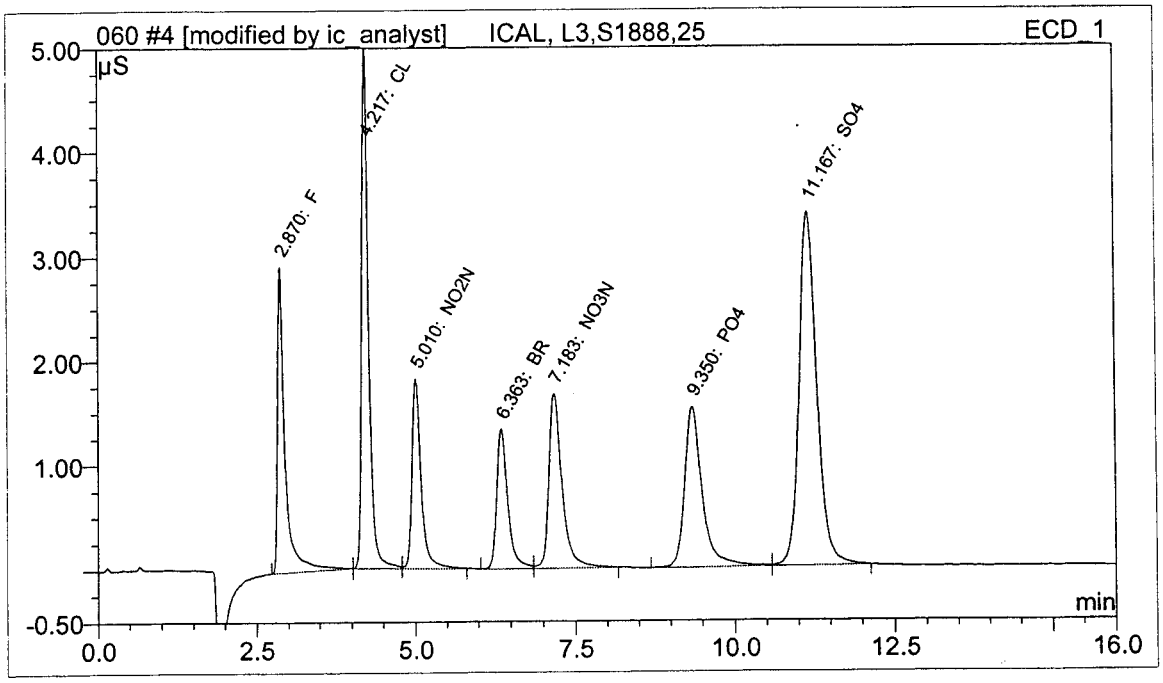
ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L3,S1888,25	**Sample No.:**	4
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:39 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.402286	2.0231	2.0231	
2	CL	4.217	0.629116	4.0722	4.0722	
3	NO2N	5.010	0.303748	1.0189	1.0189	
4	BR	6.363	0.265105	4.2189	4.2189	
5	NO3N	7.183	0.397785	1.0470	1.0470	
6	PO4	9.350	0.496547	4.1277	4.1277	
7	SO4	11.167	1.098657	10.2090	10.2090	



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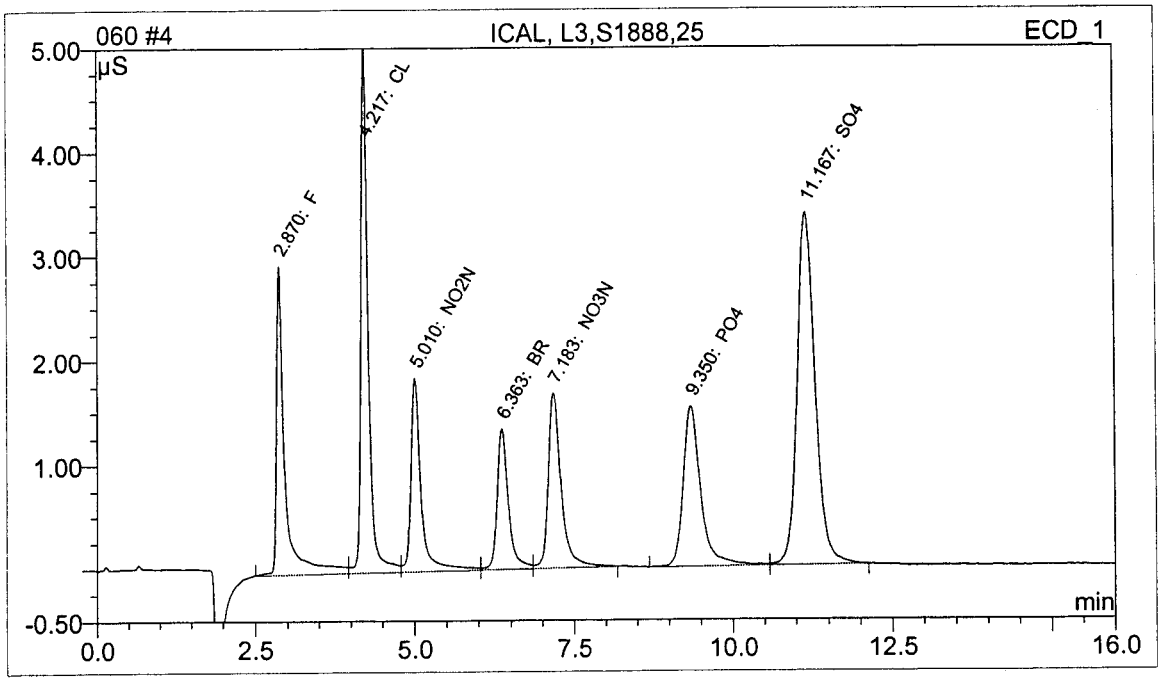
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L3,S1888,25	**Sample No.:**	4
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:39 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.455269	2.2018	2.2018	
2	CL	4.217	0.670131	4.2507	4.2507	
3	NO2N	5.010	0.344377	1.1110	1.1110	
4	BR	6.363	0.276408	4.3412	4.3412	
5	NO3N	7.183	0.404782	1.0595	1.0595	
6	PO4	9.350	0.496547	4.1277	4.1277	
7	SO4	11.167	1.098657	10.2090	10.2090	



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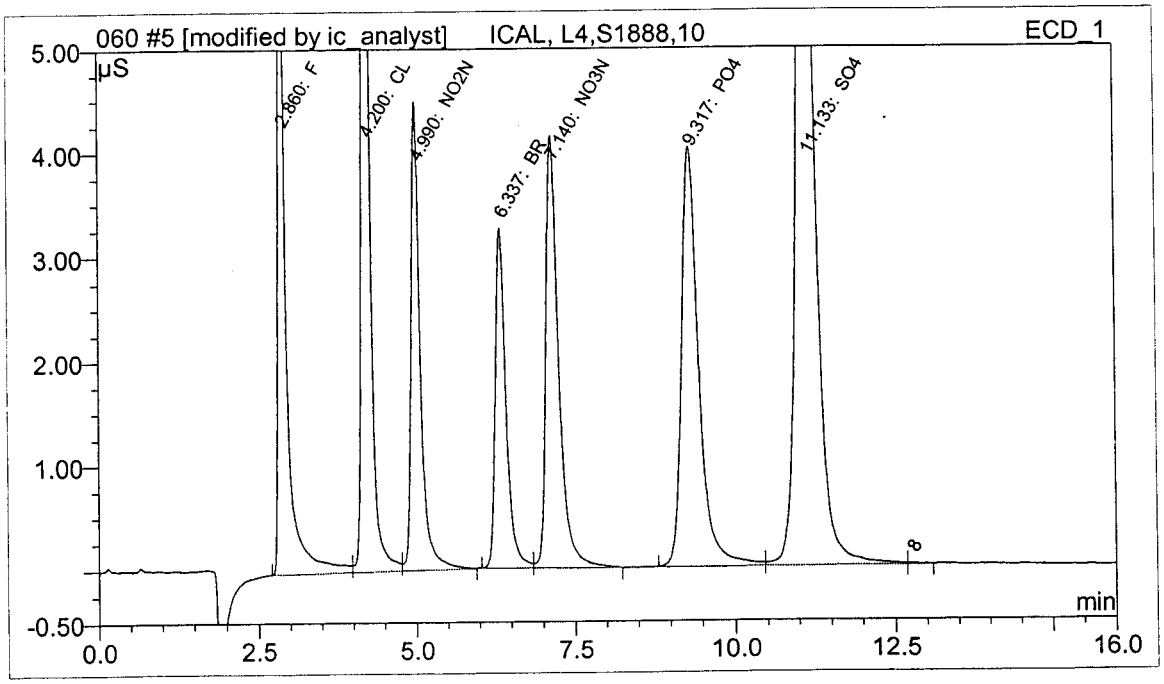
Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L4,S1888,10	**Sample No.:**	5
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:57 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.860	1.029135	4.9857	4.9857	
2	CL	4.200	1.617474	9.9589	9.9589	
3	NO2N	4.990	0.759872	2.4911	2.4911	
4	BR	6.337	0.635291	9.8662	9.8662	
5	NO3N	7.140	0.967493	2.4706	2.4706	
6	PO4	9.317	1.248459	9.9383	9.9383	
7	SO4	11.133	2.795566	24.8943	24.8943	



ANALYZED BY: _____

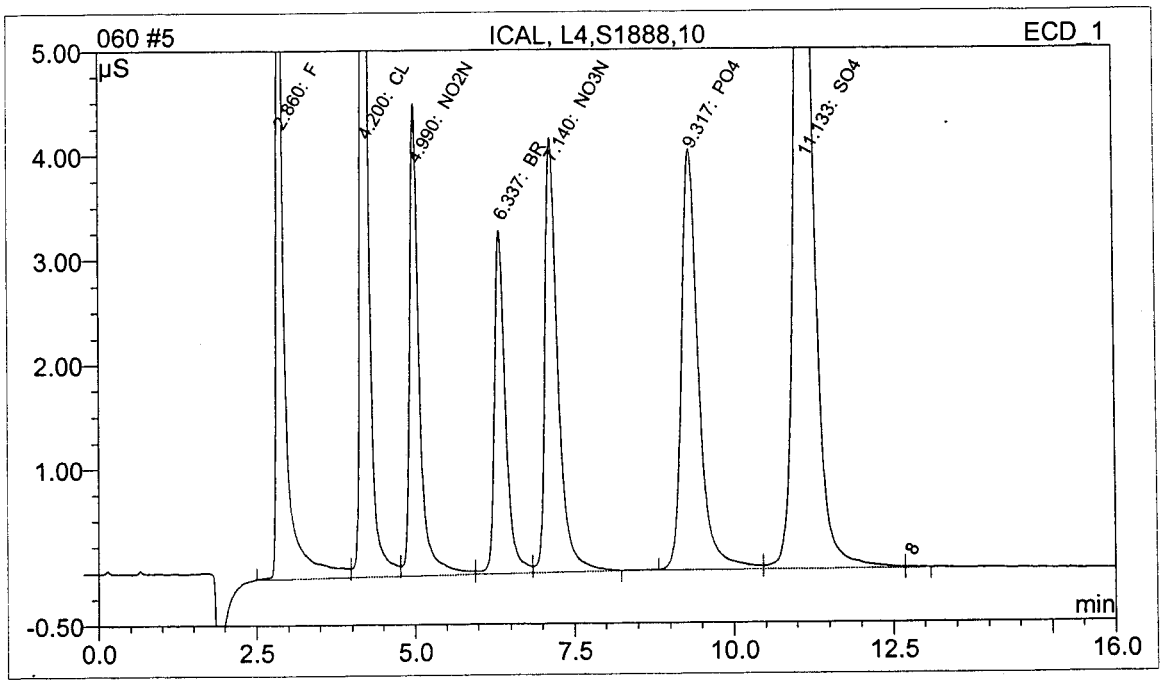
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L4,S1888,10	**Sample No.:**	5
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:57 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.860	1.056871	5.0244	5.0244	
2	CL	4.200	1.636258	9.9916	9.9916	
3	NO2N	4.990	0.792664	2.5227	2.5227	
4	BR	6.337	0.658007	9.9696	9.9696	
5	NO3N	7.140	0.980796	2.4805	2.4805	
6	PO4	9.317	1.248459	9.9383	9.9383	
7	SO4	11.133	2.795566	24.8943	24.8943	



ANALYZED BY: _____

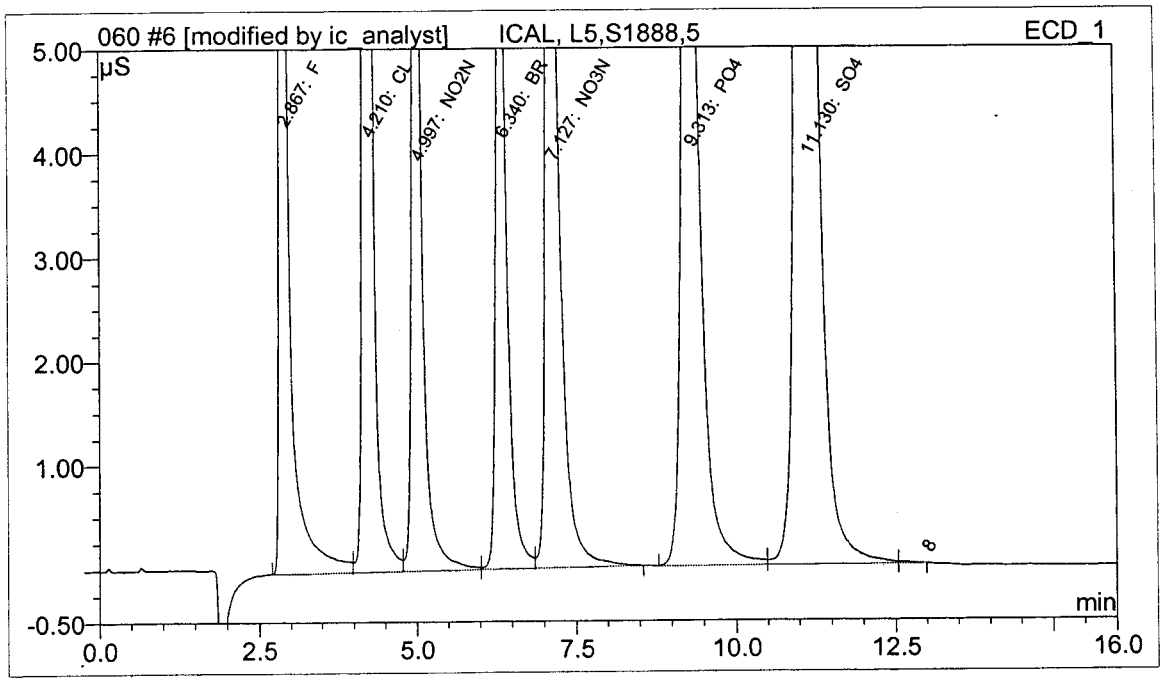
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L5,S1888,5	**Sample No.:**	6
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:15 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.867	2.192959	10.0024	10.0024	
2	CL	4.210	3.519967	20.0067	20.0067	
3	NO2N	4.997	1.584757	5.0014	5.0014	
4	BR	6.340	1.345233	20.0232	20.0232	
5	NO3N	7.127	2.063887	5.0051	5.0051	
6	PO4	9.313	2.698316	20.0096	20.0096	
7	SO4	11.130	6.017213	50.0167	50.0167	



ANALYZED BY: _____

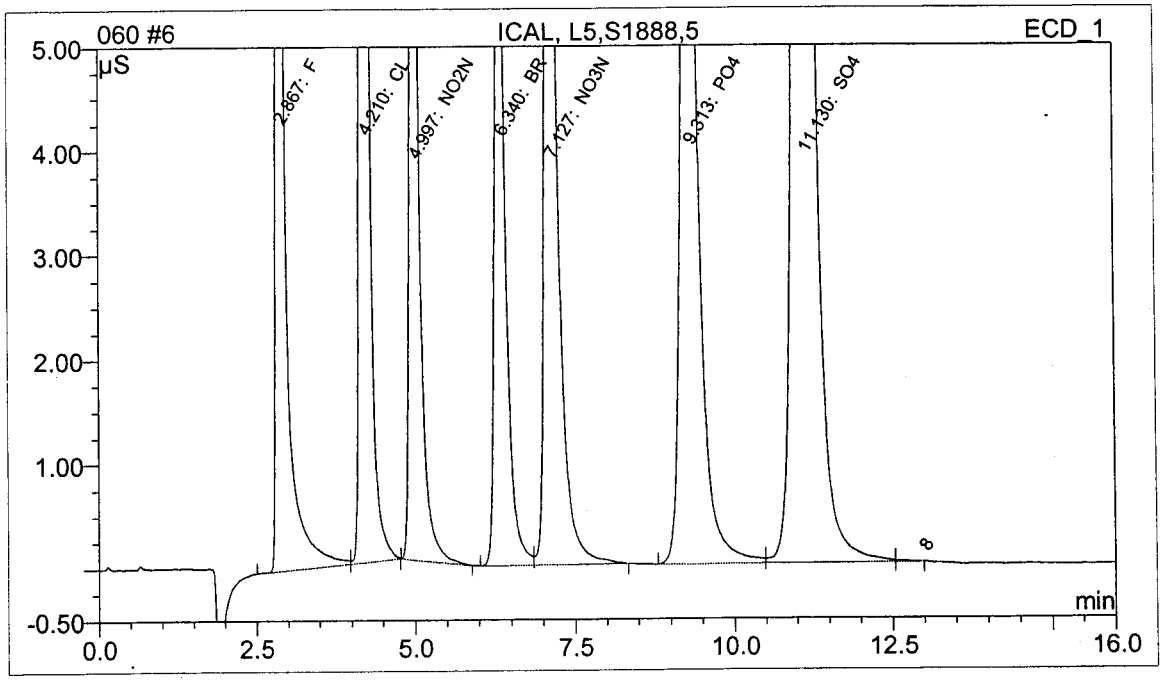
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L5,S1888,5	**Sample No.:**	6
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:15 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.867	2.155657	10.0007	10.0007	
2	CL	4.210	3.453075	20.0031	20.0031	
3	NO2N	4.997	1.510616	4.9988	4.9988	
4	BR	6.340	1.331781	20.0216	20.0216	
5	NO3N	7.127	2.045893	5.0047	5.0047	
6	PO4	9.313	2.698316	20.0096	20.0096	
7	SO4	11.130	6.017213	50.0167	50.0167	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185511 IC Water
EPA 300.0

Inst : IC03
Calnum : 626087283001 Cal Date: 01-MAR-2006

ICV 626087283007 (060_7.000 01-MAR-2006) stds: S1085 (5X)

Analyte	Spiked	Quant	Units	%D	Max	Flags
Fluoride	1.000	0.9473	mg/L	-5	10	
Chloride	2.000	1.920	mg/L	-4	10	
Nitrogen, Nitrite	0.5000	0.4860	mg/L	-3	10	
Nitrogen, Nitrate	0.5000	0.4606	mg/L	-8	10	
Sulfate	5.000	5.047	mg/L	1	10	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626087283007 File : 060_7.000 Time : 01-MAR-2006 16:34
Cal : 626087283001 Caldate: 01-MAR-2006
Standards: S1085 (5X)

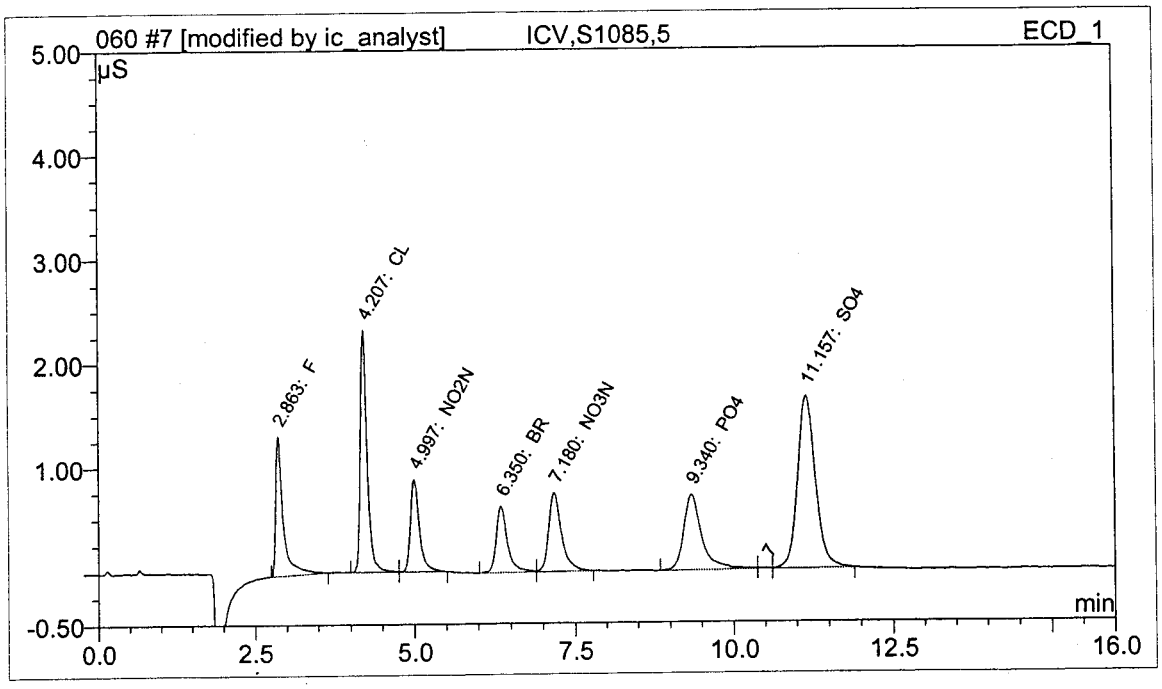
Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Fluoride	0.1990	0.1858	1.000	0.9473	mg/L	-5	10	
Chloride	0.1686	0.1455	2.000	1.920	mg/L	-4	10	
Nitrogen, Nitrite	0.2943	0.2873	0.5000	0.4860	mg/L	-3	10	
Bromide	0.0614	0.0638	2.000	2.050	mg/L	2	10	
Nitrogen, Nitrate	0.3874	0.3456	0.5000	0.4606	mg/L	-8	10	
Orthophosphate (as P)	0.1182	0.1201	2.000	2.029	mg/L	1	10	NT
Sulfate	0.1099	0.1070	5.000	5.047	mg/L	1	10	

MRS 3/2/06

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:34 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.863	0.185760	0.9473	0.9473	
2	CL	4.207	0.291093	1.9202	1.9202	
3	NO2N	4.997	0.143651	0.4860	0.4860	
4	BR	6.350	0.127568	2.0496	2.0496	
5	NO3N	7.180	0.172776	0.4606	0.4606	
6	PO4	9.340	0.240207	2.0292	2.0292	
8	SO4	11.157	0.534812	5.0468	5.0468	



ANALYZED BY: _____

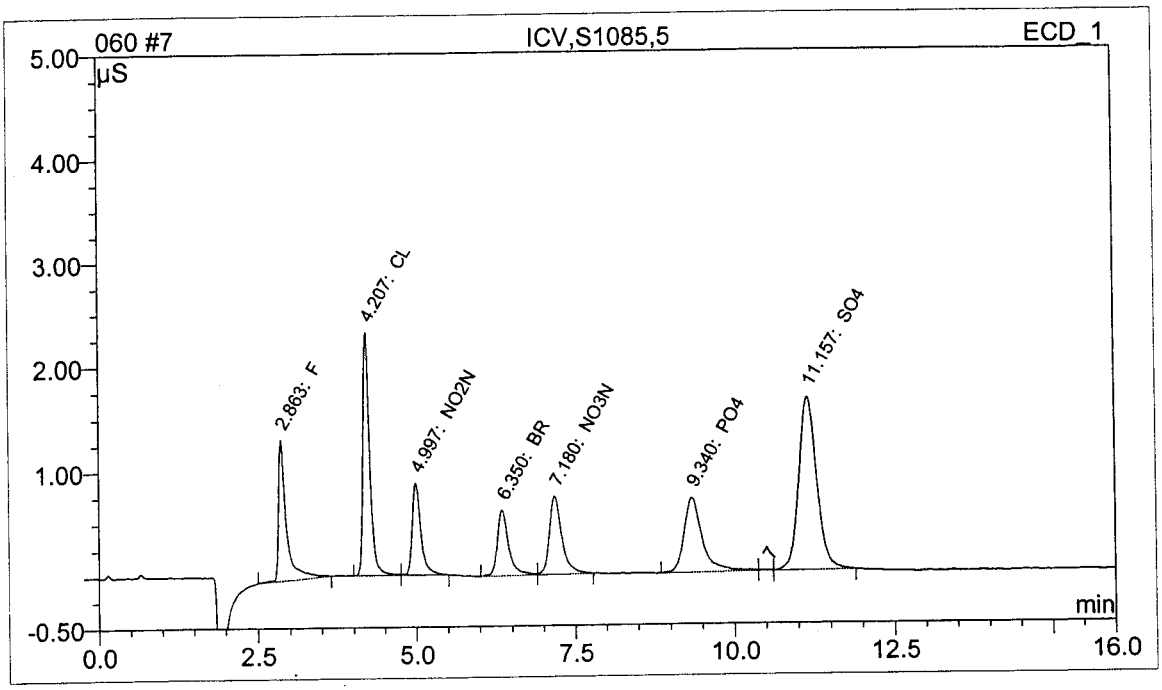
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:34 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.863	0.193974	0.9887	0.9887	
2	CL	4.207	0.291093	1.9202	1.9202	
3	NO2N	4.997	0.143651	0.4860	0.4860	
4	BR	6.350	0.127568	2.0496	2.0496	
5	NO3N	7.180	0.172776	0.4606	0.4606	
6	PO4	9.340	0.240207	2.0292	2.0292	
8	SO4	11.157	0.534812	5.0468	5.0468	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CONTINUING CALIBRATION SUMMARY FOR 185511 IC Water
Curtis & Tompkins Laboratories

Analyte: Fluoride

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC03	P	626106056007	14-MAR-2006 14:41	626087283001	01-MAR-2006	0.1990	0.1759	0.5000	0.4514	mg/L	-10	10	
IC03	P	626106056018	14-MAR-2006 17:57	626087283001	01-MAR-2006	0.1990	0.1870	2.0000	1.8846	mg/L	-6	10	
IC03	P	626106056025	14-MAR-2006 20:29	626087283001	01-MAR-2006	0.1990	0.2086	5.0000	5.0486	mg/L	1	10	
IC03	P	626107331007	15-MAR-2006 11:41	626087283001	01-MAR-2006	0.1990	0.1942	0.5000	0.4982	mg/L	0	10	
IC03	P	626107331019	15-MAR-2006 15:42	626087283001	01-MAR-2006	0.1990	0.2064	2.0000	2.0749	mg/L	4	10	
IC03	P	626107331033	15-MAR-2006 20:11	626087283001	01-MAR-2006	0.1990	0.2117	5.0000	5.1201	mg/L	2	10	

CONTINUING CALIBRATION SUMMARY FOR 185511 IC Water
Curtis & Tompkins Laboratories

Analyte: Chloride

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC03	P	626106056007	14-MAR-2006 14:41	626087283001	01-MAR-2006	0.1686	0.1369	1.0000	0.9111	mg/L	-9	10	
IC03	P	626106056018	14-MAR-2006 17:57	626087283001	01-MAR-2006	0.1686	0.1500	4.0000	3.8890	mg/L	-3	10	
IC03	P	626106056025	14-MAR-2006 20:29	626087283001	01-MAR-2006	0.1686	0.1616	10.000	9.9481	mg/L	-1	10	
IC03	P	626107331007	15-MAR-2006 11:41	626087283001	01-MAR-2006	0.1686	0.1454	1.0000	0.9676	mg/L	-3	10	
IC03	P	626107331019	15-MAR-2006 15:42	626087283001	01-MAR-2006	0.1686	0.1596	4.0000	4.1311	mg/L	3	10	
IC03	P	626107331033	15-MAR-2006 20:11	626087283001	01-MAR-2006	0.1686	0.1604	10.000	9.8836	mg/L	-1	10	
IC03	P	626107331053	16-MAR-2006 02:19	626087283001	01-MAR-2006	0.1686	0.1440	1.0000	0.9579	mg/L	-4	10	

CONTINUING CALIBRATION SUMMARY FOR 185511 IC Water
Curtis & Tompkins Laboratories

Analyte: Nitrogen, Nitrite

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC03	P	626106056007	14-MAR-2006 14:41	626087283001	01-MAR-2006	0.2943	0.2722	0.2500	0.2312	mg/L	-8	10	
IC03	P	626106056018	14-MAR-2006 17:57	626087283001	01-MAR-2006	0.2943	0.2859	1.0000	0.9601	mg/L	-4	10	
IC03	P	626106056025	14-MAR-2006 20:29	626087283001	01-MAR-2006	0.2943	0.3041	2.5000	2.4921	mg/L	0	10	
IC03	P	626107331007	15-MAR-2006 11:41	626087283001	01-MAR-2006	0.2943	0.3061	0.2500	0.2599	mg/L	4	10	
IC03	P	626107331019	15-MAR-2006 15:42	626087283001	01-MAR-2006	0.2943	0.3152	1.0000	1.0566	mg/L	6	10	
IC03	P	626107331033	15-MAR-2006 20:11	626087283001	01-MAR-2006	0.2943	0.3054	2.5000	2.5027	mg/L	0	10	

CONTINUING CALIBRATION SUMMARY FOR 185511 IC Water
Curtis & Tompkins Laboratories

Analyte: Nitrogen, Nitrate

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC03	P	626106056007	14-MAR-2006 14:41	626087283001	01-MAR-2006	0.3874	0.3408	0.2500	0.2283	mg/L	-9	10	
IC03	P	626106056018	14-MAR-2006 17:57	626087283001	01-MAR-2006	0.3874	0.3825	1.0000	1.0077	mg/L	1	10	
IC03	P	626106056025	14-MAR-2006 20:29	626087283001	01-MAR-2006	0.3874	0.3883	2.5000	2.4786	mg/L	-1	10	
IC03	P	626107331007	15-MAR-2006 11:41	626087283001	01-MAR-2006	0.3874	0.3617	0.2500	0.2422	mg/L	-3	10	
IC03	P	626107331019	15-MAR-2006 15:42	626087283001	01-MAR-2006	0.3874	0.3988	1.0000	1.0497	mg/L	5	10	
IC03	P	626107331033	15-MAR-2006 20:11	626087283001	01-MAR-2006	0.3874	0.3908	2.5000	2.4934	mg/L	0	10	

CONTINUING CALIBRATION SUMMARY FOR 185511 IC Water
Curtis & Tompkins Laboratories

Analyte: Sulfate

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC03	P	626106056007	14-MAR-2006 14:41	626087283001	01-MAR-2006	0.1099	0.0975	2.5000	2.3198	mg/L	-7	10	
IC03	P	626106056018	14-MAR-2006 17:57	626087283001	01-MAR-2006	0.1099	0.1047	10.000	9.7442	mg/L	-3	10	
IC03	P	626106056025	14-MAR-2006 20:29	626087283001	01-MAR-2006	0.1099	0.1117	25.000	24.863	mg/L	-1	10	
IC03	P	626107331007	15-MAR-2006 11:41	626087283001	01-MAR-2006	0.1099	0.1076	2.5000	2.5586	mg/L	2	10	
IC03	P	626107331019	15-MAR-2006 15:42	626087283001	01-MAR-2006	0.1099	0.1123	10.000	10.427	mg/L	4	10	
IC03	P	626107331033	15-MAR-2006 20:11	626087283001	01-MAR-2006	0.1099	0.1108	25.000	24.681	mg/L	-1	10	

CURTIS & TOMPKINS BLANK USER REPORT FOR 185511 IC Water
EPA 300.0

Inst	: IC03	Lab ID	: QC331502		
Seqnum	: 626106056008.1	Matrix	: Water		
File	: 073_8.000	Batch	: 111306	Time	: 14-MAR-2006 14:59
IDF	: 1.0	PDF	: 1.0	Units	: mg/L
Cal	: 626087283001	Caldate	: 01-MAR-2006		

Analyte	Result	RL	Flags
Fluoride	ND	0.10	
Chloride	ND	0.20	
Nitrogen, Nitrite	ND	0.05	
Nitrogen, Nitrate	ND	0.05	
Sulfate	ND	0.50	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185511 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626106056019 File : 073_19.000 Time : 14-MAR-2006 18:16
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185511 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626106056026 File : 073_26.000 Time : 14-MAR-2006 20:47
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS BLANK USER REPORT FOR 185511 IC Water
EPA 300.0

Inst	: IC03	Lab ID	: QC331695		
Seqnum	: 626107331008.1	Matrix	: Water		
File	: 074_8.000	Batch	: 111351	Time	: 15-MAR-2006 12:00
IDF	: 1.0	PDF	: 1.0	Units	: mg/L
Cal	: 626087283001	Caldate	: 01-MAR-2006		

Analyte	Result	RL	Flags
Fluoride	ND	0.10	
Chloride	ND	0.20	
Nitrogen, Nitrite	ND	0.05	
Nitrogen, Nitrate	ND	0.05	
Sulfate	ND	0.50	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185511 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626107331020 File : 074_20.000 Time : 15-MAR-2006 16:01
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185511 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626107331034 File : 074_34.000 Time : 15-MAR-2006 20:29
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	[0.02720]	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185511 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626107331054 File : 074_54.000 Time : 16-MAR-2006 02:38
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

SEQUENCE SUMMARY FOR 185511 IC Water
Curtis & Tompkins Laboratories

Sequence: 626087283 Instrument: IC03 Ion Chromatograph Begun: 01-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	060_1.00	IB				01-MAR-2006 14:43	1.0		25				
002	060_2.00	ICAL	L1			01-MAR-2006 15:02	1.0					1	
003	060_3.00	ICAL	L2			01-MAR-2006 15:20	1.0					1	
004	060_4.00	ICAL	L3			01-MAR-2006 15:39	1.0					1	
005	060_5.00	ICAL	L4			01-MAR-2006 15:57	1.0					1	
006	060_6.00	ICAL	L5			01-MAR-2006 16:15	1.0					1	
007	060_7.00	ICV				01-MAR-2006 16:34	1.0		25			2	
008	060_8.00	ICB				01-MAR-2006 16:52	1.0		25				

684

Stds used: 1=S1888 2=S1085

SEQUENCE SUMMARY FOR 185511 IC Water
Curtis & Tompkins Laboratories

Sequence: 626106056 Instrument: IC03 Ion Chromatograph Begun: 14-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
007	073_7.00	CCV	L	111306		14-MAR-2006 14:41	1.0		25			1	
008	073_8.00	CCB/MB	QC331502	111306	Water	14-MAR-2006 14:59	1.0		25				
009	073_9.00	BS	QC331503	111306	Water	14-MAR-2006 15:18	1.0		25			1	
010	073_10.0	BSD	QC331504	111306	Water	14-MAR-2006 15:36	1.0		25			1	
011	073_11.0	SAMPLE	185511-002	111306	Water	14-MAR-2006 15:55	1.0	2	25				2:SO4=79.5981
012	073_12.0	MSS	185511-001	111306	Water	14-MAR-2006 16:13	1.0	2	25				2:SO4=61.0029
013	073_13.0	SAMPLE	185504-001	111306	Water	14-MAR-2006 16:31	5.0	1	25				2:SO4=60.8272
014	073_14.0	SAMPLE	185504-002	111306	Water	14-MAR-2006 16:50	5.0		25				
015	073_15.0	SAMPLE	185511-002	111306	Water	14-MAR-2006 17:08	5.0		25				
016	073_16.0	MSS	185511-001	111306	Water	14-MAR-2006 17:27	5.0		25				
017	073_17.0	X	185504-001	111306		14-MAR-2006 17:45	10.0						
018	073_18.0	CCV	M	111306		14-MAR-2006 17:57	1.0		25			1	
019	073_19.0	CCB		111306		14-MAR-2006 18:16	1.0		25				
020	073_20.0	X	185504-001	111306		14-MAR-2006 18:34	10.0						
021	073_21.0	SAMPLE	185504-001	111306	Water	14-MAR-2006 18:54	10.0		25				1:CL=20.4002
022	073_22.0	MS	QC331505	111306	Water	14-MAR-2006 19:33	10.0		25			1	
023	073_23.0	MSD	QC331506	111306	Water	14-MAR-2006 19:52	10.0		25			1	
024	073_24.0	SAMPLE	185523-003	111306	Water	14-MAR-2006 20:10	1.0		25				1:CL=77.5909
025	073_25.0	CCV	H	111306		14-MAR-2006 20:29	1.0		25			1	
026	073_26.0	CCB		111306		14-MAR-2006 20:47	1.0		25				
027	073_27.0	X	CCV	111306		14-MAR-2006 21:05	1.0					1	
028	073_28.0	X	CCB	111306		14-MAR-2006 21:24	1.0						
029	073_29.0	X	SHUTDOWN	111306		14-MAR-2006 21:42	1.0						

Stds used: 1=S1888

SEQUENCE SUMMARY FOR 185511 IC Water
Curtis & Tompkins Laboratories

Sequence: 626107331 Instrument: IC03 Ion Chromatograph Begun: 15-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
007	074_7.00	CCV	L	111351		15-MAR-2006 11:41	1.0			25			1	
008	074_8.00	CCB/MB	QC331695	111351	Water	15-MAR-2006 12:00	1.0			25				
009	074_9.00	BS	QC331696	111351	Water	15-MAR-2006 12:24	1.0			25			1	
010	074_10.0	BSD	QC331697	111351	Water	15-MAR-2006 12:51	1.0			25			1	
011	074_11.0	SAMPLE	185541-001	111351	Water	15-MAR-2006 13:09	50.0			25				
012	074_12.0	SAMPLE	185541-002	111351	Water	15-MAR-2006 13:28	100.0			25				
013	074_13.0	X	BLK	111351		15-MAR-2006 13:46	1.0							
014	074_14.0	SAMPLE	185511-012	111351	Water	15-MAR-2006 14:10	1.0			25				
015	074_15.0	SAMPLE	185511-013	111351	Water	15-MAR-2006 14:29	1.0			25				
016	074_16.0	SAMPLE	185511-011	111351	Water	15-MAR-2006 14:47	1.0	1		25				1:CL=31.4546
017	074_17.0	SAMPLE	185511-010	111351	Water	15-MAR-2006 15:05	1.0	1		25				1:CL=77.4864
018	074_18.0	SAMPLE	185511-009	111351	Water	15-MAR-2006 15:24	1.0	1		25				1:CL=42.2976
019	074_19.0	CCV	M	111351		15-MAR-2006 15:42	1.0			25			1	
020	074_20.0	CCB		111351		15-MAR-2006 16:01	1.0			25				
021	074_21.0	MSS	185541-003	111351	Water	15-MAR-2006 16:26	50.0			25				
022	074_22.0	SAMPLE	185528-002	111351	Water	15-MAR-2006 16:45	10.0			25				686
023	074_23.0	SAMPLE	185528-003	111351	Water	15-MAR-2006 17:03	10.0			25				
024	074_24.0	SAMPLE	185528-004	111351	Water	15-MAR-2006 17:21	10.0			25				
025	074_25.0	SAMPLE	185528-005	111351	Water	15-MAR-2006 17:40	10.0			25				
026	074_26.0	SAMPLE	185541-001	111351	Water	15-MAR-2006 18:02	1.0	2		25				2:SO4=136.734
027	074_27.0	X	BLK	111351		15-MAR-2006 18:20	1.0							
028	074_28.0	SAMPLE	185541-002	111351	Water	15-MAR-2006 18:39	2.0	1		25				1:CL=133.219
029	074_29.0	X	BLK	111351		15-MAR-2006 18:57	1.0							
030	074_30.0	SAMPLE	185541-001	111351	Water	15-MAR-2006 19:16	5.0	1		25				1:CL=25.0058
031	074_31.0	MS	QC331698	111351	Water	15-MAR-2006 19:34	50.0			25			1	
032	074_32.0	MSD	QC331699	111351	Water	15-MAR-2006 19:53	50.0			25			1	
033	074_33.0	CCV	H	111351		15-MAR-2006 20:11	1.0			25			1	
034	074_34.0	CCB		111351		15-MAR-2006 20:29	1.0			25				
035	074_35.0	X	CCV	111351		15-MAR-2006 20:48	1.0						1	
036	074_36.0	X	CCB	111351		15-MAR-2006 21:06	1.0							
037	074_37.0	SAMPLE	185541-004	111351	Water	15-MAR-2006 21:25	50.0			25				

Stds used: 1=S1888

SEQUENCE SUMMARY FOR 185511 IC Water
Curtis & Tompkins Laboratories

Sequence: 626107331 Instrument: IC03 Ion Chromatograph Begun: 15-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
038	074_38.0	MSS	185541-003	111351	Water	15-MAR-2006 21:43	1.0			25				
039	074_39.0	X	BLK	111351		15-MAR-2006 22:01	1.0							
040	074_40.0	SAMPLE	185541-004	111351	Water	15-MAR-2006 22:20	1.0			25				
041	074_41.0	X	BLK	111351		15-MAR-2006 22:38	1.0							
042	074_42.0	SAMPLE	185528-002	111351	Water	15-MAR-2006 22:57	1.0	1		25				2:SO4=308.519
043	074_43.0	X	BLK	111351		15-MAR-2006 23:15	1.0							
044	074_44.0	SAMPLE	185528-003	111351	Water	15-MAR-2006 23:33	1.0	1		25				2:SO4=221.491
045	074_45.0	X	BLK	111351		15-MAR-2006 23:52	1.0							
046	074_46.0	SAMPLE	185528-004	111351	Water	16-MAR-2006 00:10	1.0	1		25				2:SO4=162.332
047	074_47.0	X	BLK	111351		16-MAR-2006 00:29	1.0							
048	074_48.0	SAMPLE	185528-005	111351	Water	16-MAR-2006 00:47	1.0	1		25				2:SO4=142.980
049	074_49.0	X	BLK	111351		16-MAR-2006 01:05	1.0							
050	074_50.0	SAMPLE	185511-009	111351	Water	16-MAR-2006 01:24	5.0	2		25				
051	074_51.0	SAMPLE	185511-010	111351	Water	16-MAR-2006 01:42	5.0	2		25				
052	074_52.0	SAMPLE	185511-011	111351	Water	16-MAR-2006 02:01	2.0	2		25				
053	074_53.0	CCV	L	111351		16-MAR-2006 02:19	1.0			25			1	687
054	074_54.0	CCB		111351		16-MAR-2006 02:38	1.0			25				
055	074_55.0	X	CCV	111351		16-MAR-2006 02:56	1.0						1	
056	074_56.0	X	CCB	111351		16-MAR-2006 03:14	1.0							
057	074_57.0	SAMPLE	185552-002	111351	Water	16-MAR-2006 03:33	100.0			25				
058	074_58.0	SAMPLE	185552-002	111351	Water	16-MAR-2006 03:51	10.0	1		25				1:NO3N=9.15619
059	074_59.0	X	BLK	111351		16-MAR-2006 04:10	1.0							
060	074_60.0	CCV	M	111351		16-MAR-2006 04:28	1.0			25			1	
061	074_61.0	CCB		111351		16-MAR-2006 04:46	1.0			25				
062	074_62.0	X	CCV	111351		16-MAR-2006 05:05	1.0						1	
063	074_63.0	X	CCB	111351		16-MAR-2006 05:23	1.0							
064	074_64.0	X	SHUTDOWN	111351		16-MAR-2006 05:42	1.0							

Stds used: 1=S1888

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185511 IC Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	CL	NO2N	NO3N	SO4
185511-001	IC03	03/14/06 16:13	1.0	+		+	+	
185511-001	IC03	03/14/06 17:27	5.0		+			+
185511-002	IC03	03/14/06 15:55	1.0	+		+	+	
185511-002	IC03	03/14/06 17:08	5.0		+			+
185511-009	IC03	03/15/06 15:24	1.0	+		+	+	+
185511-009	IC03	03/16/06 01:24	5.0		+			
185511-010	IC03	03/15/06 15:05	1.0	+		+	+	+
185511-010	IC03	03/16/06 01:42	5.0		+			
185511-011	IC03	03/15/06 14:47	1.0	+		+	+	+
185511-011	IC03	03/16/06 02:01	2.0		+			
185511-012	IC03	03/15/06 14:10	1.0	+	+	+	+	+
185511-013	IC03	03/15/06 14:29	1.0	+	+	+	+	+
QC331502	IC03	03/14/06 14:59	1.0	+	+	+	+	+
QC331503	IC03	03/14/06 15:18	1.0	+	+	+	+	+
QC331504	IC03	03/14/06 15:36	1.0	+	+	+	+	+
QC331505	IC03	03/14/06 19:33	10.0	+	+	+	+	+
QC331506	IC03	03/14/06 19:52	10.0	+	+	+	+	+
QC331695	IC03	03/15/06 12:00	1.0	+	+	+	+	+
QC331696	IC03	03/15/06 12:24	1.0	+	+	+	+	+
QC331697	IC03	03/15/06 12:51	1.0	+	+	+	+	+
QC331698	IC03	03/15/06 19:34	50.0	+	+	+	+	+
QC331699	IC03	03/15/06 19:53	50.0	+	+	+	+	+

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111306
Date Started: 14-MAR-2006
Batched by : Micah Smith

Analysis : N/A
Bgroup : IC
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185504-001			Camp, Dresser & Mc	Water	SULFATE	24-MAR-2006
185504-002			Camp, Dresser & Mc	Water	SULFATE	24-MAR-2006
185511-001			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	24-MAR-2006
185511-002			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	24-MAR-2006
185523-003			URS Corporation	Water	NITRATE, NITRITE	20-MAR-2006
QC331502	BLANK			Water		
QC331503	BS			Water		
QC331504	BSD			Water		
QC331505	MS	of 185511-001		Water		
QC331506	MSD	of 185511-001		Water		

Curtis & Tompkins, Ltd. **Water Prep Log** Ion Chromatography

Analysis: ☑ Anions EPA 300 / EPA 9056
☐ Perchlorate (ClO_4) EPA 314
☐ Cr6+ EPA 7199

Batch#: 111306
Date Started: 3/14/06
Prep Chemist: MCS

BK 2267
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	Sample #	Conductivity	Estimated Dilution Factor	Filters Used	Comments
1	185504-001 H	1.89	5x / 10x	S	
2	↓ -002 H	1.51	5x	↓	
3	185511-001 F	0.78	1x / 5x	↓	MSS
4	↓ -002 F	0.69	1x / 5x	↓	
5	185523-003 H	1.39	1x	↓	
6	Blank QC331502 MCS 3/14/06	N/A	1x	N/A	
7	BS QC331503	↓	↓	↓	
8	BSD QC331504	↓	↓	↓	
9	MS QC331505 F	↓	10x	S	
10	MSD QC331506 F	↓	10x	S	
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

		Mfg & Lot # / Time / Program	Initials / Date
Eluent Reagent ID		100X CP 12/6/05	MCS 3/14/06
BS/BSD Spiked with	0.2 mL of :	S1888	↓
MS/MSD Spiked with	0.1 mL of :	S1888	↓
Filters Used:	Ag: OnGuard II Ag	N/A	↓
	Na: OnGuard II Na	↓	↓
	P: OnGuard II P	↓	↓
	RP: OnGuard II RP	↓	↓
	S: 0.20um/0.45um	Accodisc lot #A1053946	↓

MCS 3/14/06
Extraction Chemist / Date

Continued from page ___
Continued on page ___

CP 3/15/06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111351
Date Started: 15-MAR-2006
Batched by : Micah Smith

Analysis : N/A
Bgroup : IC
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185511-009			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	24-MAR-2006
185511-010			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	24-MAR-2006
185511-011			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	24-MAR-2006
185511-012			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	24-MAR-2006
185511-013			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	24-MAR-2006
185528-002			LFR Levine Fricke	Water	NITRATE, SULFATE	21-MAR-2006
185528-003			LFR Levine Fricke	Water	NITRATE, SULFATE	21-MAR-2006
185528-004			LFR Levine Fricke	Water	NITRATE, SULFATE	21-MAR-2006
185528-005			LFR Levine Fricke	Water	NITRATE, SULFATE	21-MAR-2006
185541-001			Arcadis G&M	Water	BROMIDE, CHLORIDE, NITRATE, NITRITE, SULFATE	27-MAR-2006
185541-002			Arcadis G&M	Water	BROMIDE, CHLORIDE, NITRATE, NITRITE, SULFATE	27-MAR-2006
185541-003			Arcadis G&M	Water	BROMIDE, CHLORIDE, NITRATE, NITRITE, SULFATE	27-MAR-2006
185541-004			Arcadis G&M	Water	BROMIDE, CHLORIDE, NITRATE, NITRITE, SULFATE	27-MAR-2006
185552-002			Acme Fill Corp.	Water	NITRATE, NITRITE	27-MAR-2006
QC331695	BLANK			Water		
QC331696	BS			Water		
QC331697	BSD			Water		
QC331698	MS	of 185541-003		Water		
QC331699	MSD	of 185541-003		Water		

Curtis & Tompkins, Ltd. **Water Prep Log** Ion Chromatography

Analysis: ☑ Anions EPA 300 / EPA 9056
☐ Perchlorate (ClO_4) EPA 314
☐ Cr6+ EPA 7199

Batch#: 111351
Date Started: 3/15/06
Prep Chemist: MRS

BK 2267
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	Sample #	Conductivity	Estimated Dilution Factor	Filters Used	Comments
1	185511-009 K	1.22	1x / 5x	S	
2	-010 H	0.86	1x / 5x		
3	-011 F	0.60	1x / 2x		
4	-012 P	0.03	1x		
5	-013 O	0.01	1x		
6	185528-002 E	1.66	1x / 10x		
7	-003	1.49	/		
8	-004	1.30	/		
9	-005	1.08	/		
10	185541-001 L	2.42	50x / 1x / 5x		
11	-002	4.41	100x / 2x		
12	-003	2.34	50x / 1x		MSS
13	-004	2.34	50x / 1x		
14	185552-002 A-D	N/A	100x / 10x	P, Ag, Na, S	
15	Blank QC331695		1x	N/A	
16	BS QC331696				
17	BSD QC331697				
18	MS QC331698 L		50x	S	
19	MSD QC331699 L		50x	S	
20					

		Mfg & Lot # / Time / Program	Initials / Date
Eluent Reagent ID		100x CP 12/6/05	MRS 3/15/06
BS/BSD Spiked with	0.2 mL of :	S1888	
MS/MSD Spiked with	0.1 mL of :	S1888	
Filters Used:	Ag: OnGuard II Ag	050426-1-Ag	
	Na: OnGuard II Na	050413-1-Na	
	P: OnGuard II P	031202-1-P	
	RP: OnGuard II RP	N/A	
	S: 0.20um/0.45um	Accodisc lot #A10539346	

MRS 3/15/06
Extraction Chemist / Date

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CP 3/16/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 300.0 Water
As of 04/29/06

Analyte	Units	IC03	IC01
Fluoride	mg/L	0.023	0.018
Chloride	mg/L	0.032	0.026
Nitrogen, Nitrite	mg/L	0.012	0.0067
Bromide	mg/L	0.028	0.058
Nitrogen, Nitrate	mg/L	0.0088	0.018
Orthophosphate (as P)	mg/L	0.037	0.045
Sulfate	mg/L	0.079	0.046

Curtis & Tompkins, Ltd.

Total Cyanide

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 335.2
Analyte:	Cyanide	Batch#:	111597
Matrix:	Water	Sampled:	03/13/06
Units:	mg/L	Received:	03/14/06
Diln Fac:	1.000	Analyzed:	03/23/06

Field ID	Type	Lab ID	Result	RL
DW031306A	SAMPLE	185511-012	ND	0.01
DW031306B	SAMPLE	185511-013	ND	0.01
	BLANK	QC332698	ND	0.01

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Cyanide

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 335.2
Analyte:	Cyanide	Diln Fac:	1.000
Field ID:	DW031306B	Batch#:	111597
MSS Lab ID:	185511-013	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	mg/L	Analyzed:	03/23/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC332699	<0.01000	0.2020	0.2044	101	65-135		
MSD	QC332700		0.2020	0.2035	100	65-135	0	20
LCS	QC332701		0.2020	0.2063	102	75-125		
LCS	QC332702		0.1010	0.08780	87	75-125		

RPD= Relative Percent Difference

Analysis: **Cyanide**
Method: **EPA 335.2** / SMWW 4500CN-E
Instrument: HP UV-VIS Spectrometer
Wavelength: 578 nm

Matrix: Water
Batch: **111597**
Prep Date: **3/23/2006**
Analysis Date: **3/23/2006**
Analyst: DMc

SAMPLE & BATCH QC DATA

Sample ID	Vol (mL) Distilled	Final Distill Vol (mL)	Distillate Colored (mL)	Instrument Dilution	ABS	**Report mg/L**	Reporting Limit (mg/L)	Vol Spike Added (mL)	Std Conc. (mg/L)	Spiked @ (mg/L)	**% Rec**	**% RPD**
MB	50.0	50.0	20.0	1.00	-0.0066	**ND**	0.010					
LCS	50.0	50.0	20.0	1.00	0.2351	**0.2063**	0.010	0.5	20.2	0.202	**102**	
LCS	50.0	50.0	20.0	1.00	0.1001	**0.0878**	0.010	0.250	20.2	0.101	**87**	
185511-13	50.0	50.0	20.0	1.00	-0.0009	**ND**	0.010					
185511-13ms	50.0	50.0	20.0	1.00	0.2330	**0.2044**	0.010	0.5	20.2	0.202	**101**	696
185511-13ms	50.0	50.0	20.0	1.00	0.2319	**0.2035**	0.010	0.5	20.3	0.203	**100**	**0**
185514-1	50.0	50.0	20.0	1.00	-0.0073	**ND**	0.010					
185514-2	50.0	50.0	20.0	1.00	0.0402	**0.0353**	0.010					
185514-3	50.0	50.0	20.0	1.00	0.0000	**ND**	0.010					
185514-5	50.0	50.0	20.0	1.00	0.0882	**0.0774**	0.010					
185511-12	50.0	50.0	20.0	1.00	-0.0037	**ND**	0.010					

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	80 - 120
MS/ MSD	20	69 - 120

Reviewed by/ Date: 3.23.06

Analysis:	**Cyanide**	Matrix:	Water
Method:	**EPA 335.2** / SMWW 4500CN-E	Batch:	**111597**
Instrument:	HP UV-VIS Spectrometer	Prep Date:	**3/23/2006**
Wavelength:	578 nm	Analysis Date:	**3/23/2006**
SOP#:	CN_335_rv8.doc	Analyst:	DMc

INITIAL CALIBRATION DATA

Calibration Date: 7/5/05

Conc (mg/L)	ABS	RF
0.00000	-0.0009	
0.00884	0.0086	0.972851
0.01768	0.0195	1.102941
0.05304	0.0618	1.165158
0.08840	0.1033	1.168552
0.14144	0.1679	1.187076
0.17680	0.2081	1.177036
0.26520	0.3195	1.204751

Correlation Coefficient (r):	0.9999
Avg Rf:	1.139766
%RSD:	7.0

Note: Average Rf used to calculate sample results.

CONTINUING CALIBRATION DATA

	ABS	Conc (mg/L)	True (mg/L)	Recovery	CV Limits
ICV	0.1811	0.1589	0.1620	98%	90 - 110%
ICB	-0.0012	-0.0011	0.0000		
CCV	0.1892	0.1660	0.1620	102%	90 - 110%
CCB	0.0015	0.0013	0.0000		
CCV	0.1889	0.1657	0.1620	102%	90 - 110%
CCB	0.0020	0.0018	0.0000		

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---> Quantitation Results Report <---

Date : 03-18-2006
Time : 16:00:16
Operator : Not Entered

File Name : Data not stored yet

Sample Name : cyanide
Solvent Name : CAL 7/5/05
Conc Units : mg/L
Dil. Factor : 1.00

Analytical Wavelength : 578 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

SAMPLE #	Sample Name	Wavelength	Func. Res.	Concentrat
1	icb	Analytical	-0.0012	0.00000
2	icv	Analytical	+0.1811	0.15185
3	185514-1	Analytical	-0.0073	0.00000
4	185514-2	Analytical	+0.0402	0.03368
5	185514-4	Analytical	+0.0000	0.00000
6	185514-5	Analytical	+0.0882	0.07398
7	185511-12	Analytical	-0.0037	0.00000
8	185511-13	Analytical	-0.0009	0.00000
9	185511-13ms	Analytical	+0.2330	0.19537
10	185511-13msd	Analytical	+0.2319	0.19449
11	lcs	Analytical	+0.2351	0.19713
12	lcs	Analytical	+0.1001	0.08395
13	ccv	Analytical	+0.1892	0.15869
14	ccb	Analytical	+0.0015	0.00127
15	mb	Analytical	-0.0066	0.00000
16	ccv	Analytical	+0.1889	0.15841
17	ccb	Analytical	+0.0020	0.00164

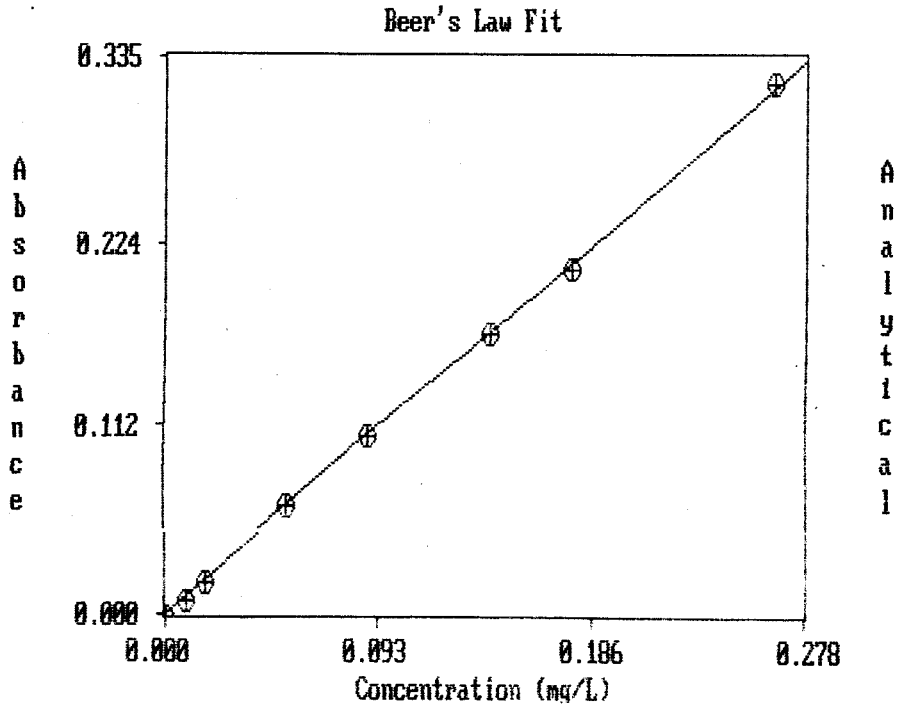
---> Standard Calibration Report <---

Date : 03-18-2006
Time : 16:00:40
Operator : Not Entered

File Name : C:\UV\DATA\mdcn705.STD

Sample Name : cyanide
Solvent Name : CAL 7/5/05
Conc Units : mg/L

Analytical Wavelength : 578 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds



---) **Standard Calibration Report** (---

Date : 03-18-2006
Time : 16:00:38
Operator : Not Entered

File Name : C:\UV\DATA\mdcn705.STD

Sample Name : cyanide
Solvent Name : CAL 7/5/05
Conc Units : mg/L

Analytical Wavelength : 578 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

Analytical Function Concentration = +8.387E-01 * Absorbance

STD #	Concentration	Absorbance	% Error
1	0.00000	-.0009	*****
2	0.00884	0.0086	+22.699 %
3	0.01768	0.0195	+8.106 %
4	0.05304	0.0618	+2.340 %
5	0.08840	0.1033	+2.023 %
6	0.14144	0.1679	+0.471 %
7	0.17680	0.2081	+1.290 %
8	0.26520	0.3195	-1.022 %

PROJECT TREADWELL 185511 NLI 185514

Notebook No. Bk 2289

Continued From Page

CN EPA 335.2 M / 9010 - 9014 B111587

Sample	Vol (ml)	Final Vol (ml)	Vol (ml) for Color	ABS
185514-1	50	50	20	-.0073
-2				.0402
-4				.0000
-5				.0882
185511-12				-.0037
-13				-.0009
-13MS	+.5ml (20.2ug/ml dilno of S2649, 1ml → 50ml)			.2330
-13MSD	same as MS			.2329
LCS	same as MS			.2357
LCS	same as MS ÷ 2			.1001
MB				-.0066
ICB				-.0012
ICV	2ml (20.2 ug/ml dilln of S2649) - 250		20ml	.1821 TV=.162mg/L
CCV				.1892
CCB				.0015
CCV				.1879
CCB				.0020

tests for Cl & S= negative
pH all >12
Sulfuric acid added to all samples

185514-1 - Black Black sample - After destillation S= removed with Cadmium carbonate

Continued on Page

Read and Understood By

Signed: [illegible] Date: 3-23-06

Signed: [illegible] Date: 3.23.06

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111597
Date Started: 23-MAR-2006
Batched by : Dennis McCanna

Analysis : CYANIDE
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185511-012			Treadwell & Rollo	Water	CYANIDE	24-MAR-2006
185511-013			Treadwell & Rollo	Water	CYANIDE	24-MAR-2006
185514-001			New Logic Research	Water	CYANIDE	24-MAR-2006
185514-002			New Logic Research	Water	CYANIDE	24-MAR-2006
185514-004			New Logic Research	Water	CYANIDE	24-MAR-2006
185514-005			New Logic Research	Water	CYANIDE	24-MAR-2006
QC332698	BLANK			Water	CYANIDE	
QC332699	MS	of 185511-013		Water	CYANIDE	
QC332700	MSD	of 185511-013		Water	CYANIDE	
QC332701	LCS			Water	CYANIDE	
QC332702	LCS			Water	CYANIDE	

Method Detection Limit Study

Analysis:	**Cyanide**	Matrix:	**Water**
Method:	EPA 335.2 mod*	Analysis Date:	8/24/2005
Instrument:	HP UV/VIS Spectrometer	Analyst:	DMc
	* using the midi-distillation apparatus		

Concentration:	0.0195	mg/L
1	0.0215	
2	0.0173	
3	0.0192	
4	0.0197	
5	0.0200	
6	0.0199	
7	0.0183	
8		
Average	0.0194	
STDEVP	0.00124	
Student's t	2.998	

(Student-T value for 7 replicates = 3.143, for 8 replicates = 2.998)

MDL = Student T * StdDev:	**0.0037**	mg/L
Reporting Limit:	0.0100	mg/L
Status:	PASS	>1/3 RL

f:\inorgan\forms\cn-mdl-h2o.xls
ver.2 effective 7/14/04

Curtis & Tompkins, Ltd.

Sulfide

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 376.2
Analyte:	Sulfide	Batch#:	111450
Matrix:	Water	Sampled:	03/13/06
Units:	mg/L	Received:	03/14/06
Diln Fac:	1.000	Analyzed:	03/20/06

Field ID	Type	Lab ID	Result	RL
1065PZ4B	SAMPLE	185511-001	ND	0.04
1065PZ5B	SAMPLE	185511-002	ND	0.04
1065MW101	SAMPLE	185511-009	ND	0.04
1065PZ2A	SAMPLE	185511-010	ND	0.04
1065PZ3A	SAMPLE	185511-011	ND	0.04
DW031306A	SAMPLE	185511-012	ND	0.04
DW031306B	SAMPLE	185511-013	ND	0.04
	BLANK	QC332109	ND	0.04

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Sulfide

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 376.2
Analyte:	Sulfide	Diln Fac:	1.000
Field ID:	DW031306B	Batch#:	111450
MSS Lab ID:	185511-013	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	mg/L	Analyzed:	03/20/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC332110	<0.04000	0.2503	0.1327	53 *	75-125		
MSD	QC332111		0.2503	0.1444	58 *	75-125	8	20
LCS	QC332112		0.3755	0.3438	92	75-125		

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Analysis:	**SULFIDE**	Matrix:	Water
Method:	**EPA 376.2**	Batch:	**111450**
Instrument:	HP UV-VIS Spectrometer	Prep Date:	**3/20/2006**
Wavelength:	626 nm	Analysis Date:	**3/20/2006**
SOP#:	sulfide_376_rv 4.doc	Analyst:	DM

INITIAL CALIBRATION DATA

Calibration Date: 11/15/05

Conc (mg/L)	Absorb	RF
0.0000	0.0001	
0.0233	0.0090	0.3863
0.0466	0.0156	0.3348
0.1862	0.0555	0.2981
0.3725	0.1650	0.4430
0.7450	0.3293	0.4420
1.3040	0.5687	0.4361
1.6760	0.7467	0.4455

Correlation Coefficient (r):	0.9994
Avg Rf:	0.3980
%RSD:	15.1

Note. Average Rf used to calculate sample results.

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CONTINUING CALIBRATION DATA

	Absorb	Conc (mg/L)	True (mg/L)	Recovery	CV Limits
ICV	0.1368	0.3438	0.3546	97%	90 - 110%
ICB	0.0014	0.0035	0.0000		
CCV	0.1416	0.3558	0.3546	100%	90 - 110%
CCB	0.0028	0.0070	0.0000		
CCV	0.1386	0.3483	0.3546	98%	90 - 110%
CCB	0.0044	0.0111	0.0000		

Analysis:	**SULFIDE**	Batch:	**111450**
Method:	**EPA 376.2**	Prep Date:	**3/20/2006**
Instrument:	HP UV-VIS Spectrometer	Analysis Date:	**3/20/2006**
Wavelength:	626 nm	Analyst:	DM
Matrix:	Water		

SAMPLE & BATCH QC DATA

Sample ID	Sample Vol (mL)	D.F.	Sample Absorb	Color Blk Absorb	**Report mg/L**	Reporting Limit (mg/L)	Vol Spike Added (mL)	Std Conc. (mg/L)	Spiked @ (mg/L)	**% Rec**	**% RPD**
MB	7.5000	1.0000	0.0014		**ND**	0.040					
LCS	7.5000	1.0000	0.1368		**0.34375**	0.040	1.0000	37.5456	0.3755	**92**	
185511-13	7.5000	1.0000	0.0021		**ND**	0.040					
185511-13ms	7.5000	1.0000	0.0528		**0.13268**	0.040	0.0500	37.5456	0.2503	**53**	
185511-13msd	7.5000	1.0000	0.0574		**0.14424**	0.040	0.0500	37.5456	0.2503	**58**	**8**
185504-1	7.5000	1.0000	0.0074		**ND**	0.040					
185504-2	7.5000	1.0000	0.0139		**ND**	0.040					
185511-1	7.5000	1.0000	0.0154		**ND**	0.040					
185511-2	7.5000	1.0000	0.0053		**ND**	0.040					
185511-9	7.5000	1.0000	0.0144		**ND**	0.040					
185511-10	7.5000	1.0000	0.0137		**ND**	0.040					
185511-11	7.5000	1.0000	0.0037		**ND**	0.040					
185511-12	7.5000	1.0000	0.0027		**ND**	0.040					

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QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	20	42 - 121

3.24.06

---> Quantitation Results Report <---

Date : 03-15-2006
Time : 09:26:29
Operator : Not Entered

File Name : Data not stored yet

Sample Name : sulfide
Solvent Name : CAL11-15-05
Conc Units : mg/L
Dil. Factor : 1.00

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

SAMPLE #	Sample Name	Wavelength	Func. Res.	Concentration
1	icb/mb	Analytical	+0.0014	0.00315
2	icv/lcs	Analytical	+0.1368	0.31001
3	185504-1	Analytical	+0.0074	0.01680
4	185504-2	Analytical	+0.0139	0.03150
5	185511-1	Analytical	+0.0154	0.03495
6	185511-2	Analytical	+0.0053	0.01207
7	185511-9	Analytical	+0.0144	0.03260
8	185511-10	Analytical	+0.0137	0.03098
9	185511-11	Analytical	+0.0037	0.00830
10	185511-12	Analytical	+0.0027	0.00622
11	ccv	Analytical	+0.1416	0.32073
12	ccb	Analytical	+0.0028	0.00636
13	185511-13	Analytical	+0.0021	0.00477
14	185511-13ms	Analytical	+0.0528	0.11973
15	185511-13msd	Analytical	+0.0574	0.13010
16	ccv	Analytical	+0.1386	0.31395
17	ccb	Analytical	+0.0044	0.01006

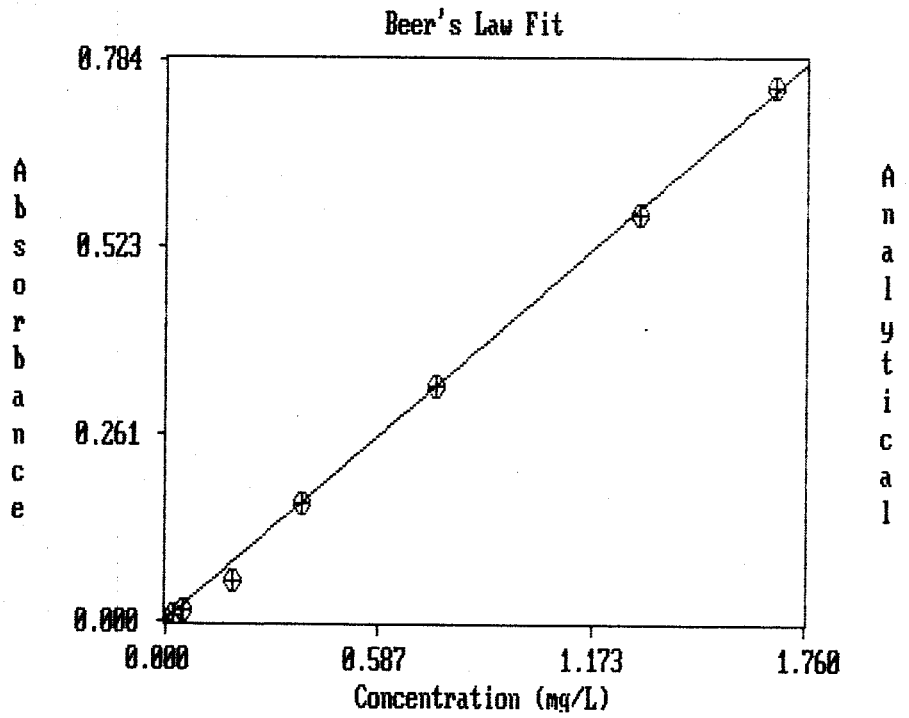
---) Standard Calibration Report (---

Date : 03-15-2006
Time : 09:26:50
Operator : Not Entered

File Name : C:\UV\DATA\ss1105.STD

Sample Name : sulfide
Solvent Name : CAL11-15-05
Conc Units : mg/L

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds



---> **Standard Calibration Report** <---

Date : 03-15-2006
Time : 09:26:48
Operator : Not Entered

File Name : C:\UV\DATA\ss1105.STD

Sample Name : sulfide
Solvent Name : CAL11-15-05
Conc Units : mg/L

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

Analytical Function Concentration = +2.266E+00 * Absorbance

STD #	Concentration	Absorbance	% Error
1	0.00000	0.0001	*****
2	0.37250	0.1650	-0.366 %
3	0.74500	0.3293	-0.135 %
4	1.30400	0.5687	+1.198 %
5	1.67600	0.7467	-0.933 %
6	0.02330	0.0090	+14.422 %
7	0.04660	0.0156	+31.758 %
8	0.18620	0.0555	+48.042 %

Batch # ~~111599~~ 111450 SY

Analyzed on 3-20-06

Standardization

$S^=$ std: 1 ml $S^=$ std, 10 ml I^- (0.02369N), 5.45 ml I^- (0.02194N)

$(10 \times 0.02369) - (5.45 \times 0.02194) \times 16000 \div 1\,ml = 1877.28\ mg/L$

1:50 dilu = 37.5456 mg/L, 0.05 ml is spiked in 7.5 ml of ~~ICV~~ SY MS (MSD) @ 0.2503 mg/L

1:100 = 0.3546 mg/L

Sample ID	Initial vol	Final vol	Abs / CB
185504 -1	7.5	7.5	0.0074
-2			0.0139
185511 -1			0.0154
-2			0.0053
-9			0.0144
-10			0.0137
-11			0.0037
-12			0.0027
-13			0.0021
-13 MS			0.0528
-13 MSD			0.0528
icb / MB			0.0014
icv / LCS			0.1368
ccv			0.1416
ccb			0.0028
ccv			0.1386
ccb			0.0044

Continued on Page

Read and Understood By

3-23-06 3.24.06

Signed Date Signed Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111450
Date Started: 20-MAR-2006
Batched by : Dennis McCanna

Analysis : SULFIDE
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185504-001			Camp, Dresser & Mc	Water	SULFIDE	24-MAR-2006
185504-002			Camp, Dresser & Mc	Water	SULFIDE	24-MAR-2006
185511-001			Treadwell & Rollo	Water	SULFIDE	24-MAR-2006
185511-002			Treadwell & Rollo	Water	SULFIDE	24-MAR-2006
185511-009			Treadwell & Rollo	Water	SULFIDE	24-MAR-2006
185511-010			Treadwell & Rollo	Water	SULFIDE	24-MAR-2006
185511-011			Treadwell & Rollo	Water	SULFIDE	24-MAR-2006
185511-012			Treadwell & Rollo	Water	SULFIDE	24-MAR-2006
185511-013			Treadwell & Rollo	Water	SULFIDE	24-MAR-2006
QC332109	BLANK			Water	SULFIDE	
QC332110	MS	of 185511-013		Water	SULFIDE	
QC332111	MSD	of 185511-013		Water	SULFIDE	
QC332112	LCS			Water	SULFIDE	

Analysis:	Sulfide	Analysis Date:	4/14/2005
Method:	EPA 376.2	Analyst:	DM
Instrument:	HP UV/Vis		
Wavelength:	626 nm		

Instrument Calibrated to report sample results in concentration: mg/L

Concentration:	0.1098	
Units:	mg/L	
1	0.100	
2	0.104	
3	0.105	
4	0.096	
5	0.096	
6	0.095	
7	0.092	
Average:	0.098	ug/L
Std Deviation:	0.004691	
Student T:	3.143	

(Student-T value for 7 replicates = 3.143, for 8 replicates = 2.998)

MDL = Student T * StdDev:	**0.0147**	mg/L
Reporting Limit:	0.04	mg/L
Status:	PASS	>1/3 RL

Curtis & Tompkins, Ltd.

Total Dissolved Solids (TDS)

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	mg/L	Analyzed:	03/20/06
Batch#:	111467		

Field ID	Type	Lab ID	Result	RL	Diln Fac
1065PZ4B	SAMPLE	185511-001	240	50	5.000
1065PZ5B	SAMPLE	185511-002	430	50	5.000
1065MW101	SAMPLE	185511-009	660	50	5.000
1065PZ2A	SAMPLE	185511-010	440	50	5.000
1065PZ3A	SAMPLE	185511-011	310	50	5.000
DW031306A	SAMPLE	185511-012	60	50	5.000
DW031306B	SAMPLE	185511-013	70	50	5.000
	BLANK	QC332180	ND	10	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Dissolved Solids (TDS)

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Batch#:	111467
Field ID:	ZZZZZZZZZZ	Sampled:	03/15/06
MSS Lab ID:	185578-001	Received:	03/16/06
Matrix:	Water	Analyzed:	03/20/06
Units:	mg/L		

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim	Diln Fac
BS	QC332181		100.0	84.00		84	79-121			1.000
BSD	QC332182		100.0	80.00		80	79-121	5	20	1.000
SDUP	QC332183	38,200		39,280	100.0			3	20	10.00

RL= Reporting Limit
RPD= Relative Percent Difference

Analysis:	**Total Dissolved Solids**	Analysis Date:	**20-Mar-06**
Method:	**EPA160.1** / SMWW 2540c	Batch #:	**111467**
Matrix:	Water	Analyst:	RS
SOP#:	tds_rv 9.doc		

BATCH QC DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)	Spike Std Conc (mg/L)	Spike Vol.Used (mL)	Spiking Level (mg/L)	**Recovery,%**	**RPD,%**
MB	50	1	48.5436	48.5419	-0.0017	ND	10					
BS	50	1	50.6649	50.6691	0.0042	84.0	10	1,000	5	100	**84**	
BSD	50	1	50.6710	50.6750	0.0040	80.0	10	1,000	5	100	**80**	**4.88**
185578-001	5	10	25.0013	25.1923	0.1910	38,200.0	100					
SDUP	5	10	26.9780	27.1744	0.1964	39,280.0	100					**2.79**

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	79 - 121
MS/ MSD	20	69 - 131

SAMPLE DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)
185504-001	10	5	55.6984	55.7098	0.0114	1,140.0	50
185504-002	10	5	53.0676	53.0754	0.0078	780.0	50
185511-001	10	5	50.4019	50.4043	0.0024	240.0	50
185511-002	10	5	44.0389	44.0432	0.0043	430.0	50
185511-009	10	5	49.5557	49.5623	0.0066	660.0	50
185511-010	10	5	27.6025	27.6069	0.0044	440.0	50
185511-011	10	5	27.6486	27.6517	0.0031	310.0	50
185511-012	10	5	29.1943	29.1949	0.0006	60.0	50
185511-013	10	5	25.9426	25.9433	0.0007	70.0	50
185578-004	5	10	26.1344	26.3313	0.1969	39,380.0	100
185580-002	10	5	25.7352	25.7402	0.0050	500.0	50
185580-003	10	5	24.4003	24.4065	0.0062	620.0	50
185580-004	10	5	27.8747	27.9044	0.0297	2,970.0	50
185580-005	10	5	25.3618	25.3686	0.0068	680.0	50
185580-006	10	5	25.3756	25.3908	0.0152	1,520.0	50
185580-007	10	5	24.4196	24.4285	0.0089	890.0	50
185580-008	10	5	25.9501	25.9581	0.0080	800.0	50
185580-009	10	5	44.6198	44.6251	0.0053	530.0	50
185580-010	10	5	49.4626	49.4782	0.0156	1,560.0	50

Note: Because the regulatory holding time is based on the prep date, the analysis date referenced above is the prep date.

Reviewed by/ Date: 3-22-6

716

TDS (Total Dissolved Solids)
EPA 160.1 / SMWW 2540C

Curtis & Tompkins, Ltd.

LIMS Batch #: 111467

Prep Date: 3-20-06
Prep Time: 12:10

Benchbook#: **BK2145**
Page: **84**

Filter Mfg/ Lot#: F1672870
Spike WS#: S2182

Spike WS Conc (mg/L): 1,000
Spike Vol Added (mL): 5

	In	Out	In-2	Out-2	In-3	Out-3
Date:	3-20-06	3-21-06	3-21-06	3-21-06		
Time:	16:20	12:30	14:00	15:00		
Temp (C):	90°C	180°C	180°C	180°C		

	Sample # / Letter	EC Value (µS/cm)	Sample Vol. Filtered (mL)	Dish ID	Dish Wt (g)	1st Dry Wt.(g)	2nd Dry Wt (g)*	3rd Dry Wt (g)*
1	MB		50	7	48.5436	48.5419	48.5419	
	BS			2	50.6649	50.6691	50.6690	
	BSD			*	50.6710	50.6750	50.6750	
	185504-001H	1,915	10	EA	55.6984	55.7098	55.7096	
5	-002	1,500		TT	53.0676	53.0754	53.0750	
	185511-001F	1,000		MM	50.4019	50.4043	50.4041	
	-002	700		1	44.0389	44.0432	44.0430	
	-009K	1,300		LM1	49.5557	49.5623	49.5622	
	-010H	870		E8	27.6025	27.6069	27.6068	
10	-011F	603		AA	27.6486	27.6517	27.6518	
	-012P	2.97		E7	29.1943	29.1949	29.1954	
	-013	3.00		FS	25.9426	25.9433	25.9430	
	185578-001C	25,000	5	FK	25.0013	25.1923	25.1927	
	SDUP -001			LR	26.9780	27.1744	27.1744	
15	-004D	18,000	RS 3/20/06	LL	26.1344	26.3313	26.3312	
	185580-002	813	10	MM	25.7352	25.7402	25.7403	
	-003	823		M	24.4003	24.4065	24.4064	
	-004	7,500		LMK	27.8747	27.9044	27.9043	
	-005	1,200		10	25.3618	25.3686	25.3690	
20	-006	4,000		50	25.3756	25.3908	25.3911	
	-007	1,700		LM	24.4196	24.4285	24.4286	
	-008	1,600		4	25.9501	25.9581	25.9580	
	-009	1,064		Z	44.6198	44.6251	44.6249	
	-010	3,760		00	49.4626	49.4782	49.4783	
							RS	3/20/06

* Constant weight must be within 0.0005 from previous reading.

RSchiffa 3/20/06
Analyst / Date

Jason Spence 3-22-6
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111467
Date Started: 20-MAR-2006
Batched by : Radia Shiffa

Analysis : TDS
Bgroup : N/A
Department : Wet Chemistry

Sample	Type	Client	Matrix	Analyses	Due Date
185504-001		Camp, Dresser & Mc	Water	TDS	24-MAR-2006
185504-002		Camp, Dresser & Mc	Water	TDS	24-MAR-2006
185511-001		Treadwell & Rollo	Water	TDS	24-MAR-2006
185511-002		Treadwell & Rollo	Water	TDS	24-MAR-2006
185511-009		Treadwell & Rollo	Water	TDS	24-MAR-2006
185511-010		Treadwell & Rollo	Water	TDS	24-MAR-2006
185511-011		Treadwell & Rollo	Water	TDS	24-MAR-2006
185511-012		Treadwell & Rollo	Water	TDS	24-MAR-2006
185511-013		Treadwell & Rollo	Water	TDS	24-MAR-2006
185578-001		Alta Environmental	Water	TDS	22-MAR-2006
185578-004		Alta Environmental	Water	TDS	22-MAR-2006
185580-002		Malcolm Pirnie,Inc	Water	TDS	22-MAR-2006
185580-003		Malcolm Pirnie,Inc	Water	TDS	22-MAR-2006
185580-004		Malcolm Pirnie,Inc	Water	TDS	22-MAR-2006
185580-005		Malcolm Pirnie,Inc	Water	TDS	22-MAR-2006
185580-006		Malcolm Pirnie,Inc	Water	TDS	22-MAR-2006
185580-007		Malcolm Pirnie,Inc	Water	TDS	22-MAR-2006
185580-008		Malcolm Pirnie,Inc	Water	TDS	22-MAR-2006
185580-009		Malcolm Pirnie,Inc	Water	TDS	22-MAR-2006
185580-010		Malcolm Pirnie,Inc	Water	TDS	22-MAR-2006
QC332180	BLANK		Water	TDS	
QC332181	BS		Water	TDS	
QC332182	BSD		Water	TDS	
QC332183	SDUP of 185578-001		Water	TDS	

Curtis & Tompkins, Ltd.

Total Organic Carbon (TOC)

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 415.2
Analyte:	Total Organic Carbon	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Diln Fac	Batch#	Analyzed
1065MW101	SAMPLE	185511-009	28	1.0	2.000	111869	03/30/06
1065PZ2A	SAMPLE	185511-010	8.2	0.50	1.000	111848	03/29/06
DW031306A	SAMPLE	185511-012	ND	0.50	1.000	111848	03/29/06
DW031306B	SAMPLE	185511-013	ND	0.50	1.000	111848	03/29/06
	BLANK	QC333687	ND	0.50	1.000	111848	03/29/06
	BLANK	QC333775	ND	0.50	1.000	111869	03/30/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Organic Carbon (TOC)

Lab #:	185511	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 415.2
Analyte:	Total Organic Carbon	Units:	mg/L
Matrix:	Water	Diln Fac:	1.000

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim	Batch#	Analyzed
BS	QC333688	15.00	13.57	90	80-120			111848	03/29/06
BSD	QC333689	15.00	13.89	93	80-120	2	20	111848	03/29/06
BS	QC333776	10.00	9.793	98	80-120			111869	03/30/06
BSD	QC333777	10.00	9.425	94	80-120	4	20	111869	03/30/06

RPD= Relative Percent Difference

Analysis:	**Total Inorganic & Organic Carbon**	Date Analyzed:	**30-Mar-06**
Method:	**EPA 415.2 / SMWW 5310c**	Batch #:	**111869**
Matrix:	Water	Analyst:	SY
Instrument:	Tekmar-Dorman		
SOP#:	toc_415_rv 7.doc		

Calibration Range: 0.5- 20ppm Calibration Date: 16-Feb-05

Standard Conc (mg/L)	Injection Size (mL)	Expected ug C	ABS	RF
0	4.0	0	285214	
0.5	4.0	2.0	1020522	510261
1.0	4.0	4.0	1372216	343054
5.0	4.0	20.0	5433587	271679
10.0	4.0	40.0	10544965	263624
20.0	4.0	80.0	22033950	275424

Correlation Coefficient (r):	0.9995	Slope:	269261
R-Square:	0.9989	Intercept:	229731

Calibration Verification Data

	TOC (mg/L) True Value	Instrument "ppm C"	TOC (mg/L) Report	Recovery	Recovery Limits
ICV	10.0	9.79	9.7931	98%	90% - 110%
ICB	0	0.07	ND		
CCV	10.0	10.57	10.5684	106%	90% - 110%
CCB	0	0.42	ND		
CCV	10.0	9.74	9.7386	97%	90% - 110%
CCB	0	0.34	ND		

Analysis:	**Total Inorganic & Organic Carbon**	Date Analyzed:	**29-Mar-06**
Method:	**EPA 415.2 / SMWW 5310c**	Batch #:	**111869**
Matrix:	Water	Analyst:	SY
Instrument:	Tekmar-Dorman		

Batch QC Data

Sample	PDF	Instrument "ppm C"	**TOC (mg/L) Report**	Reporting Limit (mg/L)	TOC Spike Level (mg/L)	Recovery,%	%RPD
BLANK	1	0.0663	**ND**	0.5			
BS	1	9.7931	**9.7931**	0.5	10	97.9 *	
BSD	1	9.4246	**9.4246**	0.5	10	94.2 *	3.84 *

QC Limits	Recovery	RPD
LCS/ BS/ BSD	80 - 120	20
SSPIKE/ SDUP	80 - 135	20

Sample Data

Sample	IDF	Instrument "ppm C"	**TOC (mg/L) Report**	Reporting Limit (mg/L)
185511-9	2	14.06	**28.12**	1.0
185558-16	1	4.09	**4.09**	0.5
185558-17	1	4.82	**4.82**	0.5
185558-18	1	11.47	**11.47**	0.5
185558-19	1	13.76	**13.76**	0.5
185558-20	1	12.44	**12.44**	0.5
185558-22	3	14.92	**44.75**	1.5
185558-26	1	1.50	**1.50**	0.5
185558-27	1	3.71	**3.71**	0.5
185650-5	1	2.11	**2.11**	0.5
185650-6	1	1.83	**1.83**	0.5
185650-7	1	2.44	**2.44**	0.5
185650-8	1	3.67	**3.67**	0.5

Joan Apr 3-30-6

Detailed Analysis Report Print Date/Time: 2006/03/30 8:37:10

Sample ID: blk
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03300749
Timestamp: 03/30/2006 08:03
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1344	0.5376	273555	33.010	34.009	66
2	0.0825	0.3302	217695	33.084	34.084	59

<<<Statistics>>> Mean: 0.1084 Std Dev: 0.0367 RSD: 33.84

Sample ID: icb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03300749
Timestamp: 03/30/2006 08:17
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0663	0.2650	200159	33.225	34.220	59
2	0.0671	0.2684	201054	33.367	34.363	58

<<<Statistics>>> Mean: 0.0667 Std Dev: 0.0006 RSD: 0.85

Sample ID: 15 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03300749
Timestamp: 03/30/2006 08:25
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.1312	36.5248	10064419	33.409	34.406	104

Sample ID: blk
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03300749
Timestamp: 03/30/2006 08:03
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1344	0.5376	273555	33.010	34.009	66
2	0.0825	0.3302	217695	33.084	34.084	59

<<<Statistics>>> Mean: 0.1084 Std Dev: 0.0367 RSD: 33.84

Sample ID: icb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03300749
Timestamp: 03/30/2006 08:17
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0663	0.2650	200159	33.225	34.220	59
2	0.0671	0.2684	201054	33.367	34.363	58

<<<Statistics>>> Mean: 0.0667 Std Dev: 0.0006 RSD: 0.85

Sample ID: 15 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03300749
Timestamp: 03/30/2006 08:25
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.1312	36.5248	10064419	33.409	34.406	104

→ not cal failure
wrong setting as 15 ppm
Run started immediately after
SY 3.30.06

Detailed Analysis Report Print Date/Time: 2006/03/30 14:16:52

Sample ID: 10 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 08:54
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.7931	39.1722	10777279	34.018	35.014	132
2	9.4717	37.8866	10431111	34.286	35.282	96

<<<Statistics>>> Mean: 9.6324 Std Dev: 0.2273 RSD: 2.36

Sample ID: bsd
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 09:10
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.4246	37.6983	10279483	34.137	35.135	113
2	9.3958	37.5834	10248527	34.182	35.180	121

<<<Statistics>>> Mean: 9.4102 Std Dev: 0.0204 RSD: 0.22

Sample ID: 185511-9G
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 09:28
Sample Type: Sample

Run @ 2X

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	27.7843	111.1373	30053708	34.043	35.043	185
2	28.5147	114.0589	30840386	34.127	35.125	255

<<<Statistics>>> Mean: 28.1495 Std Dev: 0.5165 RSD: 1.83

Sample ID: 185558-16
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 09:44
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.0892	16.3567	4533007	34.286	35.286	137
2	3.4457	13.7829	3839992	34.369	35.368	137

<<<Statistics>>> Mean: 3.7674 Std Dev: 0.4550 RSD: 12.08

Sample ID: 185511-9H x2 ~~185511-Hx2~~ SY
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 10:01
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.0621	56.2484	15274282	34.301	35.300	183
2	14.2730	57.0922	15501478	34.449	35.449	123

<<<Statistics>>> Mean: 14.1676 Std Dev: 0.1491 RSD: 1.05

Sample ID: 185558-18
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 10:17
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11.4674	45.8695	12479655	34.257	35.256	142
2	11.4790	45.9160	12492173	34.404	35.402	141

<<<Statistics>>> Mean: 11.4732 Std Dev: 0.0082 RSD: 0.07

Sample ID: 185558-19H
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 10:38
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.7633	55.0530	14952412	34.386	35.385	278
2	14.4005	57.6022	15638810	34.596	35.595	278

<<<Statistics>>> Mean: 14.0819 Std Dev: 0.4506 RSD: 3.20

Sample ID: 185558-20H
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 10:56
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	12.4454	49.7818	13533073	34.553	35.553	217
2	12.4957	49.9828	13587211	34.503	35.503	211

<<<Statistics>>> Mean: 12.4706 Std Dev: 0.0356 RSD: 0.29

Sample ID: 185558-22H
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 11:30
Sample Type: Sample

Dilution @ 3X

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	39.8613	159.4453	43061156	34.533	35.531	643
2	40.8582	163.4330	44134896	34.727	35.726	667

<<<Statistics>>> Mean: 40.3597 Std Dev: 0.7049 RSD: 1.75

Sample ID: 10 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 11:47
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.5684	42.2735	11612320	34.810	35.809	174
2	9.6117	38.4470	10581998	34.687	35.687	158

<<<Statistics>>> Mean: 10.0900 Std Dev: 0.6765 RSD: 6.70

Sample ID: ccb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 12:00
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.4172	1.6689	578159	34.674	35.669	69
2	0.2276	0.9106	373972	34.603	35.594	62

<<<Statistics>>> Mean: 0.3224 Std Dev: 0.1341 RSD: 41.58

Sample ID: 185558-26H
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 12:16
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.5035	6.0141	1748156	34.534	35.532	116
2	1.5161	6.0643	1761665	34.684	35.682	108

<<<Statistics>>> Mean: 1.5098 Std Dev: 0.0089 RSD: 0.59

Sample ID: 185558-27H
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 12:33
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.7108	14.8431	4125451	34.626	35.625	176
2	3.7462	14.9847	4163581	34.629	35.628	175

<<<Statistics>>> Mean: 3.7285 Std Dev: 0.0250 RSD: 0.67

Sample ID: 185650-5
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 12:48
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.1059	8.4235	2396913	34.648	35.637	108
2	2.0536	8.2142	2340569	34.706	35.703	107

<<<Statistics>>> Mean: 2.0798 Std Dev: 0.0370 RSD: 1.78

Sample ID: 185650-6
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 13:02
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.8286	7.3145	2098303	34.729	35.728	85
2	1.7924	7.1698	2059340	34.726	35.722	82

<<<Statistics>>> Mean: 1.8105 Std Dev: 0.0256 RSD: 1.41

Sample ID: 185650-7
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 13:17
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.4437	9.7747	2760743	34.732	35.729	91
2	2.5279	10.1117	2851489	34.645	35.643	99

<<<Statistics>>> Mean: 2.4858 Std Dev: 0.0595 RSD: 2.40

Sample ID: 185650-8
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 13:33
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time

1	3.6724	14.6896	4084139	34.672	35.671	163
2	3.6793	14.7170	4091518	34.936	35.936	142

<<<Statistics>>> Mean: 3.6758 Std Dev: 0.0049 RSD: 0.13

Sample ID: 185558-17
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 13:49
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.8186	19.2744	5318647	34.901	35.900	120
2	4.8375	19.3500	5338998	34.786	35.786	128

<<<Statistics>>> Mean: 4.8281 Std Dev: 0.0134 RSD: 0.28

Sample ID: 185558-22Gx3
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 14:16
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.9170	59.6679	16195035	34.820	35.820	465
2	15.2749	61.0994	16580476	34.930	35.929	465

<<<Statistics>>> Mean: 15.0960 Std Dev: 0.2531 RSD: 1.68

Detailed Analysis Report Print Date/Time: 2006/03/30 14:51:19

TOC Std 1000ppm
(S2952 - Exp Jun-18-06)
ICV
BSD 2ml → 200ml @
10ppm

SY 3.30.06

Sample ID: 10 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03301420
Timestamp: 03/30/2006 14:37
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.7386	38.9546	10718664	34.729	35.727	165
2	9.2618	37.0473	10205106	34.841	35.841	153

<<<Statistics>>> Mean: 9.5002 Std Dev: 0.3371 RSD: 3.55

Sample ID: ccb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03301420
Timestamp: 03/30/2006 14:50
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.4856	1.9424	651807	34.797	35.793	67
2	0.3420	1.3679	497125	34.668	35.664	65

<<<Statistics>>> Mean: 0.4138 Std Dev: 0.1015 RSD: 24.54

1	2.2572	9.0288	2559909	34.301	35.300	89
2	2.3423	9.3691	2651521	34.289	35.286	93

<<<Statistics>>> Mean: 2.2997 Std Dev: 0.0602 RSD: 2.62

Sample ID: 185650-8A
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03291139
Timestamp: 03/29/2006 16:15
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.4771	13.9085	3873802	34.310	35.309	127
2	3.5127	14.0507	3912093	34.263	35.262	142

<<<Statistics>>> Mean: 3.4949 Std Dev: 0.0252 RSD: 0.72

Sample ID: 185558-16G
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03291139
Timestamp: 03/29/2006 16:30
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.9833	11.9332	3341938	34.314	35.314	109
2	2.9381	11.7524	3293246	34.240	35.237	108

<<<Statistics>>> Mean: 2.9607 Std Dev: 0.0320 RSD: 1.08

Sample ID: 185558-17G
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03291139
Timestamp: 03/29/2006 16:45
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.2952	17.1806	4754865	34.168	35.164	103
2	4.3416	17.3662	4804838	34.072	35.069	86

<<<Statistics>>> Mean: 4.3184 Std Dev: 0.0328 RSD: 0.76

Sample ID: 18558-18G
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03291139
Timestamp: 03/29/2006 17:01
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.7865	43.1460	11746326	34.051	35.050	136
2	10.8882	43.5527	11855824	34.040	35.038	137

<<<Statistics>>> Mean: 10.8373 Std Dev: 0.0719 RSD: 0.66

Sample ID: 18558-26G
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03291139
Timestamp: 03/29/2006 17:15
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.5475	6.1898	1795477	34.029	35.024	102
2	1.3891	5.5562	1624864	33.956	34.956	101

<<<Statistics>>> Mean: 1.4683 Std Dev: 0.1120 RSD: 7.63

Sample ID: 185558-27G
Mode: TOC

Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Filename: 03291139
Timestamp: 03/29/2006 17:33
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.5611	14.2445	3964290	34.046	35.045	170
2	3.5729	14.2918	3977004	34.235	35.233	168

<<<Statistics>>> Mean: 3.5670 Std Dev: 0.0083 RSD: 0.23

Sample ID: 15 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03291139
Timestamp: 03/29/2006 17:49
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.4700	53.8801	14737517	34.330	35.327	145
2	13.4928	53.9713	14762083	34.238	35.237	146

Last Message: Out of Calibration
<<<Statistics>>> Mean: 13.4814 Std Dev: 0.0161 RSD: 0.12

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111869
Date Started: 30-MAR-2006
Batched by : Sunitha Yerragodula

Analysis : TOC
Bgroup : N/A
Department : Wet Chemistry

Sample	Type	Client	Matrix	Analyses	Due Date
185511-009		Treadwell & Rollo	Water	TOC	24-MAR-2006
185558-016		Treadwell & Rollo	Water	TOC	27-MAR-2006
185558-017		Treadwell & Rollo	Water	TOC	27-MAR-2006
185558-018		Treadwell & Rollo	Water	TOC	27-MAR-2006
185558-019		Treadwell & Rollo	Water	TOC	27-MAR-2006
185558-020		Treadwell & Rollo	Water	TOC	27-MAR-2006
185558-022		Treadwell & Rollo	Water	TOC	27-MAR-2006
185558-026		Treadwell & Rollo	Water	TOC	27-MAR-2006
185558-027		Treadwell & Rollo	Water	TOC	27-MAR-2006
185650-005		Bayer Corporation	Water	TOC	24-MAR-2006
185650-006		Bayer Corporation	Water	TOC	24-MAR-2006
185650-007		Bayer Corporation	Water	TOC	24-MAR-2006
185650-008		Bayer Corporation	Water	TOC	24-MAR-2006
QC333775	BLANK		Water	TOC	
QC333776	BS		Water	TOC	
QC333777	BSD		Water	TOC	

Analysis:	**Total Inorganic & Organic Carbon**	Date Analyzed:	**29-Mar-06**
Method:	**EPA 415.2 / SMWW 5310c**	Batch #:	**111848**
Matrix:	Water	Analyst:	SY
Instrument:	Tekmar-Dorman	Write up :	SY
SOP#:	toc_415_rv 7.doc		

Calibration Range: 0.5- 20ppm Calibration Date: 16-Feb-05

Standard Conc (mg/L)	Injection Size (mL)	Expected ug C	ABS	RF
0	4.0	0	285214	
0.5	4.0	2.0	1020522	510261
1.0	4.0	4.0	1372216	343054
5.0	4.0	20.0	5433587	271679
10.0	4.0	40.0	10544965	263624
20.0	4.0	80.0	22033950	275424

Correlation Coefficient (r):	0.9995	Slope:	269261
R-Square:	0.9989	Intercept:	229731

Calibration Verification Data

	TOC (mg/L) True Value	Instrument "ppm C"	TOC (mg/L) Report	Recovery	Recovery Limits
ICV	15.0	13.57	13.5657	90%	90% - 110%
ICB	0	0.10	ND		
CCV	15.0	13.74	13.7414	92%	90% - 110%
CCB	0	0.26	ND		

Analysis:	**Total Inorganic & Organic Carbon**	Date Analyzed:	**29-Mar-06**
Method:	**EPA 415.2 / SMWW 5310c**	Batch #:	**111848**
Matrix:	Water	Analyst:	SY
Instrument:	Tekmar-Dorman	Write up :	SY

Batch QC Data

Sample	PDF	Instrument "ppm C"	**TOC (mg/L) Report**	Reporting Limit (mg/L)	TOC Spike Level (mg/L)	Recovery,%	%RPD
BLANK	1	0.0973	**ND**	0.5			
BS	1	13.5657	**13.5657**	0.5	15	90.4	
BSD	1	13.8850	**13.8850**	0.5	15	92.6	2.33

QC Limits	Recovery	RPD
LCS/ BS/ BSD	80 - 120	20
SSPIKE/ SDUP	80 - 135	20

Sample Data

Sample	IDF	Instrument "ppm C"	**TOC (mg/L) Report**	Reporting Limit (mg/L)
185511-10	1	8.22	**8.22**	0.5
185511-12	1	0.36	**ND**	0.5
185511-13	1	0.17	**ND**	0.5
185541-1	1	1.49	**1.49**	0.5
185541-2	50	14.30	**714.96**	25.0
185541-3	4	13.18	**52.72**	2.0
185541-4	4	13.31	**53.23**	2.0

3-30-6

Detailed Analysis Report Print Date/Time: 2006/03/30 0:20:01

Sample ID: ccb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03291139
Timestamp: 03/29/2006 11:51
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0256	0.1024	156363	34.479	35.479	53
2	0.0144	0.0575	144281	34.450	35.444	52

<<<Statistics>>> Mean: 0.0200 Std Dev: 0.0079 RSD: 39.60

Sample ID: blk
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03291139
Timestamp: 03/29/2006 12:05
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1390	0.5560	278506	34.434	35.428	57
2	0.1195	0.4781	257532	34.399	35.396	57

<<<Statistics>>> Mean: 0.1292 Std Dev: 0.0138 RSD: 10.67

Sample ID: icb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03291139
Timestamp: 03/29/2006 12:18
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0973	0.3890	233547	34.532	35.526	55
2	0.0934	0.3735	229360	34.443	35.440	55

<<<Statistics>>> Mean: 0.0953 Std Dev: 0.0028 RSD: 2.89

Sample ID: 15 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03291139
Timestamp: 03/29/2006 12:34
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.5657	54.2628	14840571	34.564	35.563	146
2	13.7446	54.9784	15033268	34.702	35.700	142

<<<Statistics>>> Mean: 13.6551 Std Dev: 0.1265 RSD: 0.93

Sample ID: bsd
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03291139
Timestamp: 03/29/2006 12:50
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.8850	55.5399	15083505	34.772	35.770	133
2	13.6807	54.7227	14863461	34.526	35.523	104

<<<Statistics>>> Mean: 13.7829 Std Dev: 0.1445 RSD: 1.05

Sample ID: 185511-10D
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03291139
Timestamp: 03/29/2006 13:07
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	8.2184	32.8735	8980332	34.438	35.438	167
2	8.3386	33.3546	9109877	34.421	35.418	177

<<<Statistics>>> Mean: 8.2785 Std Dev: 0.0850 RSD: 1.03

Sample ID: 185511-12J
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03291139
Timestamp: 03/29/2006 13:21
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.3603	1.4412	516846	34.516	35.511	63
2	0.2368	0.9473	383858	34.439	35.439	60

<<<Statistics>>> Mean: 0.2986 Std Dev: 0.0873 RSD: 29.25

Sample ID: 185511-13J
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03291139
Timestamp: 03/29/2006 13:34
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1698	0.6793	311715	34.481	35.476	59
2	0.1572	0.6289	298127	34.504	35.499	57

<<<Statistics>>> Mean: 0.1635 Std Dev: 0.0089 RSD: 5.45

Sample ID: 185541-1H
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03291139
Timestamp: 03/29/2006 13:50
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.4908	5.9632	1734448	34.514	35.512	133
2	1.5132	6.0530	1758624	34.480	35.478	135

<<<Statistics>>> Mean: 1.5020 Std Dev: 0.0158 RSD: 1.05

Sample ID: 185541-2IX50
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03291139
Timestamp: 03/29/2006 14:08
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.2991	57.1963	15529520	34.578	35.577	238
2	14.2718	57.0871	15500106	34.548	35.548	176

<<<Statistics>>> Mean: 14.2854 Std Dev: 0.0193 RSD: 0.14

Sample ID: 185541-3Ix4
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 03291139
Timestamp: 03/29/2006 14:27
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.1799	52.7195	14324100	34.552	35.550	197
2	13.0978	52.3911	14235679	34.475	35.474	221

<<<Statistics>>> Mean: 13.1389 Std Dev: 0.0581 RSD: 0.44

Sample ID: 185541-4Ix4 Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03291139
Cal. Curve: 1-20cal102405 Timestamp: 03/29/2006 14:47
Operator ID: SY Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.3079	53.2316	14461978	34.432	35.431	257
2	13.3306	53.3222	14486384	34.693	35.690	243

<<<Statistics>>> Mean: 13.3193 Std Dev: 0.0161 RSD: 0.12

Toc std 1000ppm
(S2952 Exp Jun-18-06)
ICV/BSD
3 ml → 200 ml @ 15ppm
SY
3.30.06

Sample ID: 15 ppm Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03291139
Cal. Curve: 1-20cal102405 Timestamp: 03/29/2006 15:03
Operator ID: SY Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.7414	54.9655	15029778	34.689	35.688	144
2	13.6865	54.7461	14970703	34.747	35.744	139

<<<Statistics>>> Mean: 13.7139 Std Dev: 0.0388 RSD: 0.28

Sample ID: ccb Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03291139
Cal. Curve: 1-20cal102405 Timestamp: 03/29/2006 15:16
Operator ID: SY Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2638	1.0551	412890	34.657	35.656	56
2	0.1302	0.5209	269062	34.444	35.442	54

<<<Statistics>>> Mean: 0.1970 Std Dev: 0.0945 RSD: 47.95

Sample ID: 185650-5A Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03291139
Cal. Curve: 1-20cal102405 Timestamp: 03/29/2006 15:30
Operator ID: SY Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.6316	6.5264	1886109	34.421	35.420	76
2	1.6681	6.6725	1925436	34.368	35.365	78

<<<Statistics>>> Mean: 1.6499 Std Dev: 0.0258 RSD: 1.56

Sample ID: 185650-6A Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03291139
Cal. Curve: 1-20cal102405 Timestamp: 03/29/2006 15:44
Operator ID: SY Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.6550	6.6201	1911324	34.269	35.266	82
2	1.6428	6.5713	1898183	34.364	35.357	76

<<<Statistics>>> Mean: 1.6489 Std Dev: 0.0086 RSD: 0.52

Sample ID: 185650-7A Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 03291139
Cal. Curve: 1-20cal102405 Timestamp: 03/29/2006 15:59
Operator ID: SY Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111848
Date Started: 29-MAR-2006
Batched by : Sunitha Yerragodula

Analysis : TOC
Bgroup : N/A
Department : Wet Chemistry

Sample	Type	Client	Matrix	Analyses	Due Date
185511-010		Treadwell & Rollo	Water	TOC	24-MAR-2006
185511-012		Treadwell & Rollo	Water	TOC	24-MAR-2006
185511-013		Treadwell & Rollo	Water	TOC	24-MAR-2006
185541-001		Arcadis G&M	Water	TOC	27-MAR-2006
185541-002		Arcadis G&M	Water	TOC	27-MAR-2006
185541-003		Arcadis G&M	Water	TOC	27-MAR-2006
185541-004		Arcadis G&M	Water	TOC	27-MAR-2006
QC333687	BLANK		Water	TOC	
QC333688	BS		Water	TOC	
QC333689	BSD		Water	TOC	

Total Organic Carbon
by Walkley-Black Method
Method Detection Limit Study

Analysis:	**Total Organic Carbon**	Analysis Date:	**6-May-05**
Method:	EPA 415.2 / SM 5310C	Batch:	101838
Matrix:	Water	Analyst:	DW

Conc. (mg/L)	0.500
1	0.6200
2	0.5500
3	0.5500
4	0.5800
5	0.6200
6	0.6300
7	0.5500
STDEVP	0.034166
Student's t-value	3.143
ML (mg/L)	**0.1074**
RL (mg/L)	0.50
Status	PASS

Note: Student-T value for 7 replicates = 3.143, for 8 replicates = 2.998

Filename: F:\inorgan\forms\tocwb_mdl.xls

NDMA

PACIFIC ANALYTICAL, INC.

6056 Corte Del Cedro • Carlsbad, CA 92011
(760) 496-2200 • FAX (760) 496-2211

NARRATIVE REPORT
Method 1625M Semivolatiles

Curtis & Tompkins
2323 Fifth Street
Berkeley, CA 94710

03/29/06

Attn: Steve Stanley

PA Reference: 2530

Samples: DW031306A, DW031306B

Semivolatiles analysis:

The samples were extracted and analyzed by Method 1625C, modified for the lowest possible detection limits. A 1000 mL aliquot was spiked with 0.01 ug of N-Nitrosodimethylamine-d6 and extracted with continuous liquid-liquid extractors for 24 hours. The sample extract was concentrated to a final volume of 0.10 mL and spiked with 0.01 ug of 2,2'-Difluorobiphenyl as an internal recovery standard. The extracts were analyzed by GC/MS with the mass spectrometer operating in the "Specific Ion Mode" for greater sensitivity and lower detection limits. The instrument was calibrated with five initial calibration standards ranging from 0.02 ug/mL to 1.00 ug/mL. A recent method detection limit study suggests the instrument is capable of detecting N-Nitrosodimethylamine (NNDMA) at a concentration of 0.0005 ug/L in a 1 liter sample. However our practical quantitation limit is 0.002 ug/L for a 1 liter sample. Any samples where NNDMA was detected at a concentration above 0.0005 ug/L but below 0.002 ug/L have an estimated concentration listed marked with a "J".

On-going Precision and Recovery

A laboratory blank (P&R) was spiked with 0.002 ug of NNDMA and 0.01 ug of its labeled analog, and extracted and analyzed like a sample for each extraction batch. Recoveries for NNDMA and its Label are within the method specified recovery limits for the P&R's associated with the samples.

Laboratory Blank

A laboratory blank was extracted and analyzed like the sample with each extraction batch. All of the laboratory blanks associated with the samples have no NNDMA detected at a concnetration which exceeds the detection limit.

1

Samples

Both samples have NNDMA detected at concentrations which exceed the calibration range. 100X dilutions of both samples were required to get NNDMA within the calibration range. The dilutions were prepared by diluting the sample extract into a MeCl2 spiked with the internal standard at the proper concentration. The diluted extracts were quantitated by the internal standard method; the concentrations listed on the summary forms are not recovery corrected.

This data package includes a summary page followed by a chromatogram and a close-up of the extracted ion current profile of NNDMA and its labeled analog. This is followed by a raw data printout with areas and scan numbers, an finally a "Quantitation Results" page which lists extract concentrations in ug/mL.

Please contact Chris Burbach or Steve Parsons at (760) 496-2200 if there are any questions concerning this data package.

Chris Burbach
GC/MS Supervisor

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900
(510) 486-0532

LEVEL III

Project Number: 185511
Site: Presidio

Subcontract Laboratory:
Pacific Analytical, Inc.
6056 Corte del Cedro
Carlsbad, CA 92009
(760) 496-2200
ATTN: Steve Parson

Results due: Report Level: III

Please send report to: Steve Stanley
*** Please report using Sample ID rather than C&T Lab #.

Sample ID	Sampled	Matrix	Analysis	C&T Lab #	Comments
DW031306A	03/13 07:00	Water	NDMA	185511-012	
DW031306B	03/13 10:00	Water	NDMA	185511-013	

Notes:	Relinquished By:	Received By:
	Date/Time: 3/14/06 1609	Date/Time: 3/15/06 1000

Signature on this form constitutes a firm Purchase Order for the services requested above.

Page 1 of 1

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EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DW031306A

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000.000 ml
Concentrated Extract Volume: 100 ul
Injection Volume: 1 ul

Lab Sample ID: 2530-001
Lab File ID: 12C2819
Date Sampled: 03/13/06
Date Extracted: 03/15/06
Date Analyzed: 03/28/06
Time Analyzed: 1822

Compound	Sample Conc ug/L		PQL ug/L	Labeled Cpd. Recovery
N-Nitrosodimethylamine	5.3079	E	0.0020	44 %

U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve
na = Compound has no corresponding labeled reference
PQL = Practical Quantitation Limit

NNDMA MDL = 0.0005 ug/L

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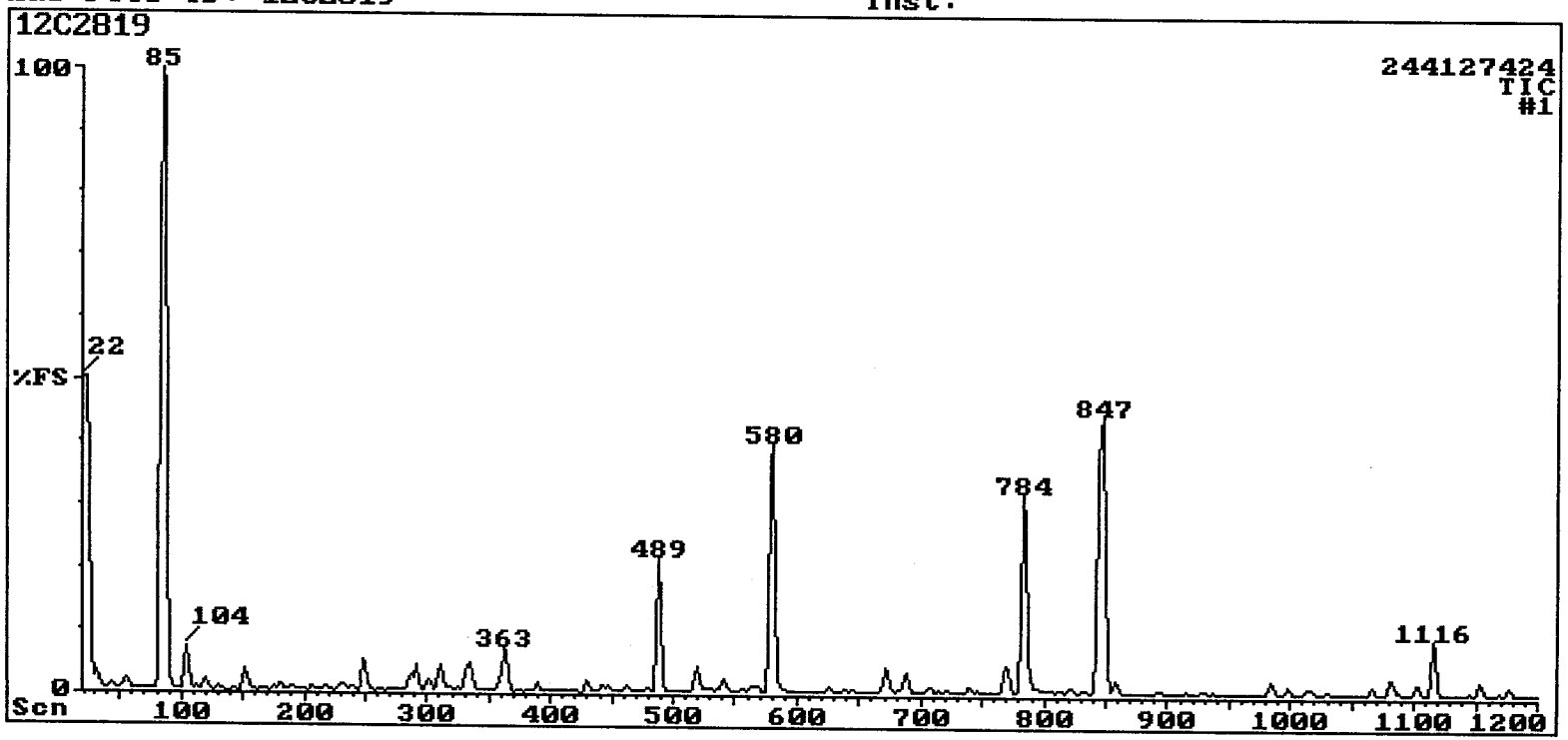
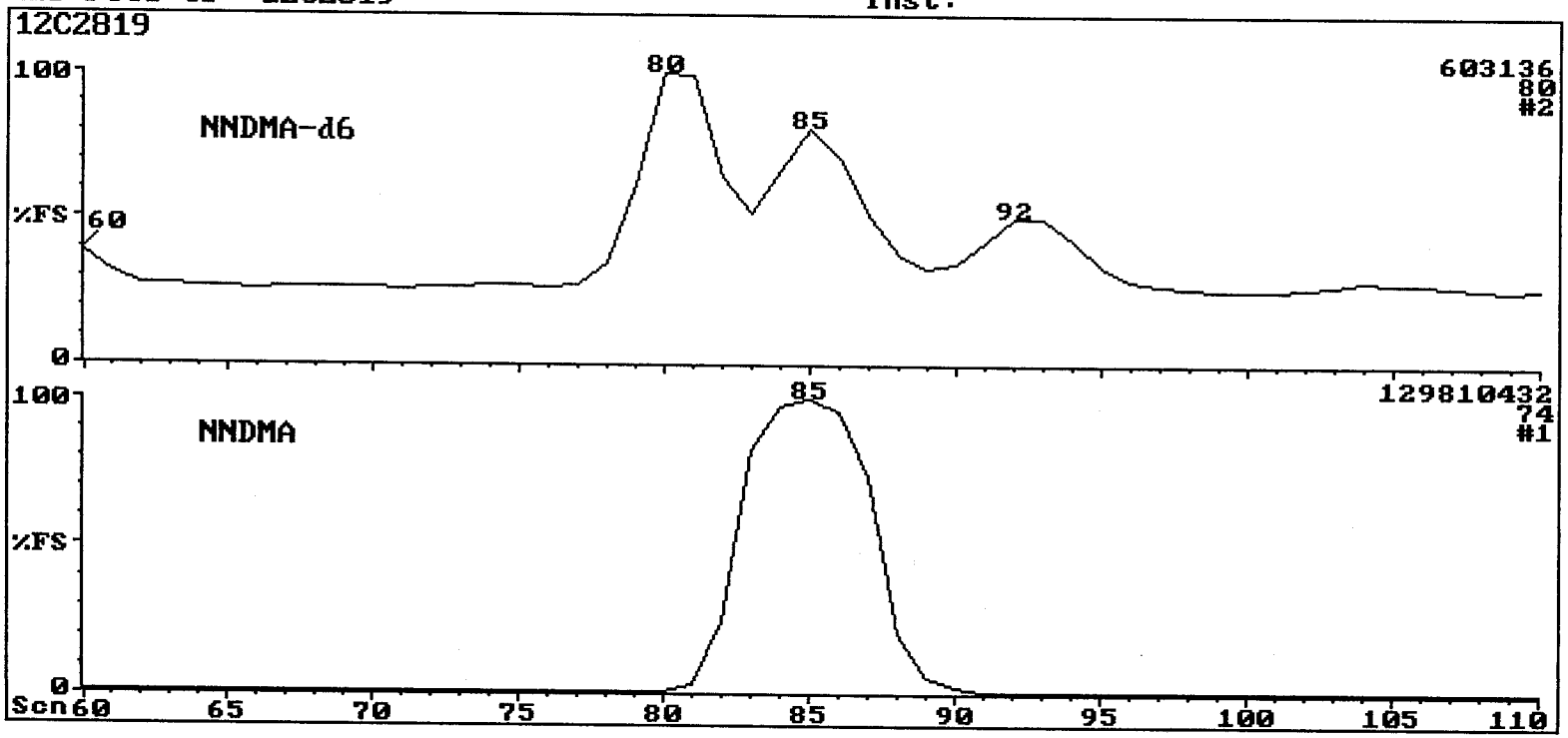
Sample: DW031306A 2530-001 Analyzed: 03/28/06 1822
Lab File ID: 12C2819 Inst:



5

Sample: DW031306A 2530-001 Analyzed: 03/28/06 1822
Lab File ID: 12C2819 Inst:



6

Sample No.: DW031306A 2530-001 Analyzed: 03/28/06 1822
File ID: 12C2819 Instrument ID: VG12

==========

Interim Report LAB-BASE FIND 03/29/~~06~~ 0517

==========

JS 3/29/06

Raw Datafile : 12C2819 Quan DB : 12C2819
Find DB : NNDMA Scan DB :

No.	Spectrum MAT	Spectrum FOR	Spectrum REV	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	QM	Compound Name
1	100	69	100	1	11785600	bb	998	997	190	2,2'-Difluorobiphenyl
2	97	63	99	-1	1359276	v!	80	81	80	N-Nitrosodimethylamine-d6
3	100	89	89	-1	658463925	b?	85	86	74	N-Nitrosodimethylamine

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Quantitation Results

Sample: DW031306A Lab ID: 2530-001 File: 12C2819
Instr: VG12 Acqu Date: 03/28/06 Acqu Time: 1822
Initial Size: 1000.0000 Final Size: 0.1000 ml

Compound	Target Conc ug/ml	Sample Conc ug/L	% Label Rec	Limits
N-Nitrosodimethylamine	53.07886	5.30789	44	25 - 175

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EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DW031306ADL

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 10.000 ml
Concentrated Extract Volume: 100 ul
Injection Volume: 1 ul

Lab Sample ID: 2530-001DL
Lab File ID: 12C2837
Date Sampled: 03/13/06
Date Extracted: 03/15/06
Date Analyzed: 03/29/06
Time Analyzed: 0717

Compound	Sample Conc ug/L	PQL ug/L	Labeled Cpd. Recovery
N-Nitrosodimethylamine	4.2489	0.2000	na

U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve
na = Compound has no corresponding labeled reference
PQL = Practical Quantitation Limit

NNDMA MDL = 0.0005 ug/L

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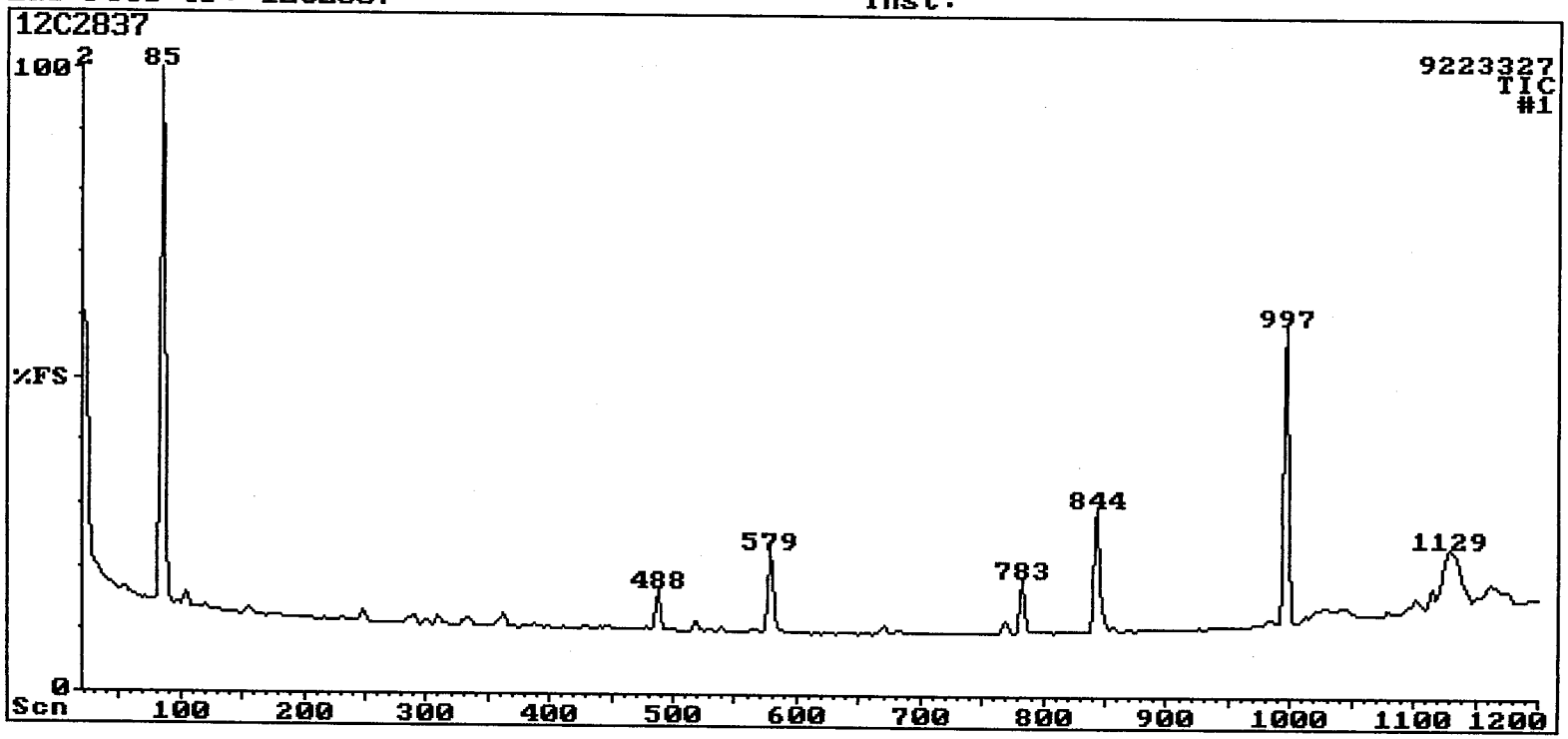
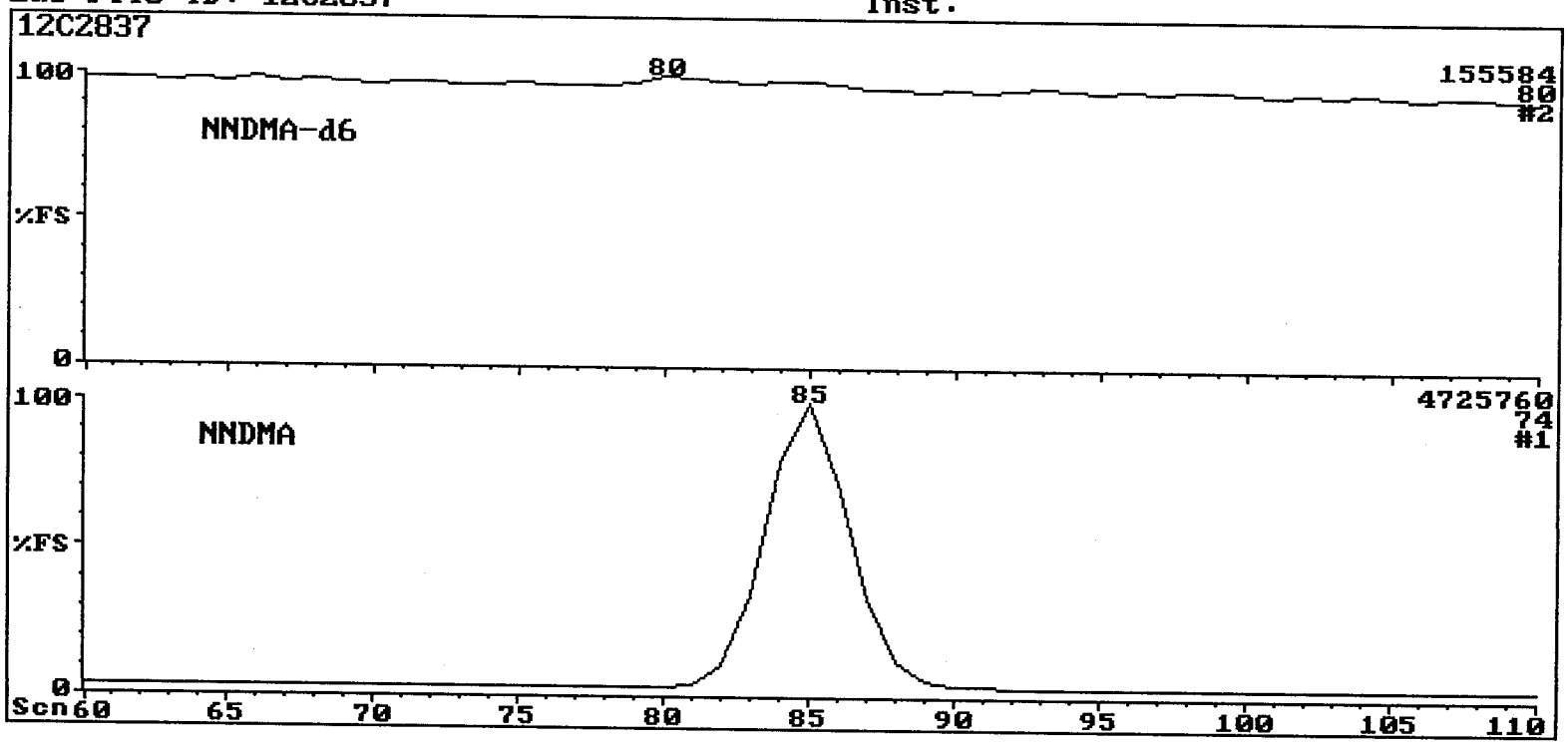
Sample: DW031306ADL 2530-001DL Analyzed: 03/29/06 0717
Lab File ID: 12C2837 Inst:



Sample: DW031306ADL 2530-001DL Analyzed: 03/29/06 0717
Lab File ID: 12C2837 Inst:



Sample No.: DW031306ADL 2530-001DL Analyzed: 03/29/06
File ID: 12C2837 Instrument ID: VG12

Interim Report LAB-BASE FIND 03/29/~~06~~ 06 0834

03/24/06

Raw Datafile : 12C2837 Quan DB : 12C2837
Find DB : NNDMA Scan DB :

No.	Spectrum MAT	FOR	REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	78	100	0	14708605	vb	997	997	190	2,2'-Difluorobiphenyl
2	83	45	93	-1	23608	!!	80	81	80	N-Nitrosodimethylamine-d6
3	100	84	90	-1	15401589	vb	85	86	74	N-Nitrosodimethylamine

12

Quantitation Results

Sample: DW031306ADL Lab ID: 2530-001DL File: 12C2837
Instr: VG12 Acqu Date: 03/29/06 Acqu Time: 0717
Initial Size: 10.0000 Final Size: 0.1000 ml

Compound	Target Conc ug/ml	Sample Conc ug/L	% Label Rec	Limits
N-Nitrosodimethylamine	0.42489	4.24894		

13

EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DW031306B

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000.000 ml
Concentrated Extract Volume: 100 ul
Injection Volume: 1 ul

Lab Sample ID: 2530-002
Lab File ID: 12C2820
Date Sampled: 03/13/06
Date Extracted: 03/15/06
Date Analyzed: 03/28/06
Time Analyzed: 1903

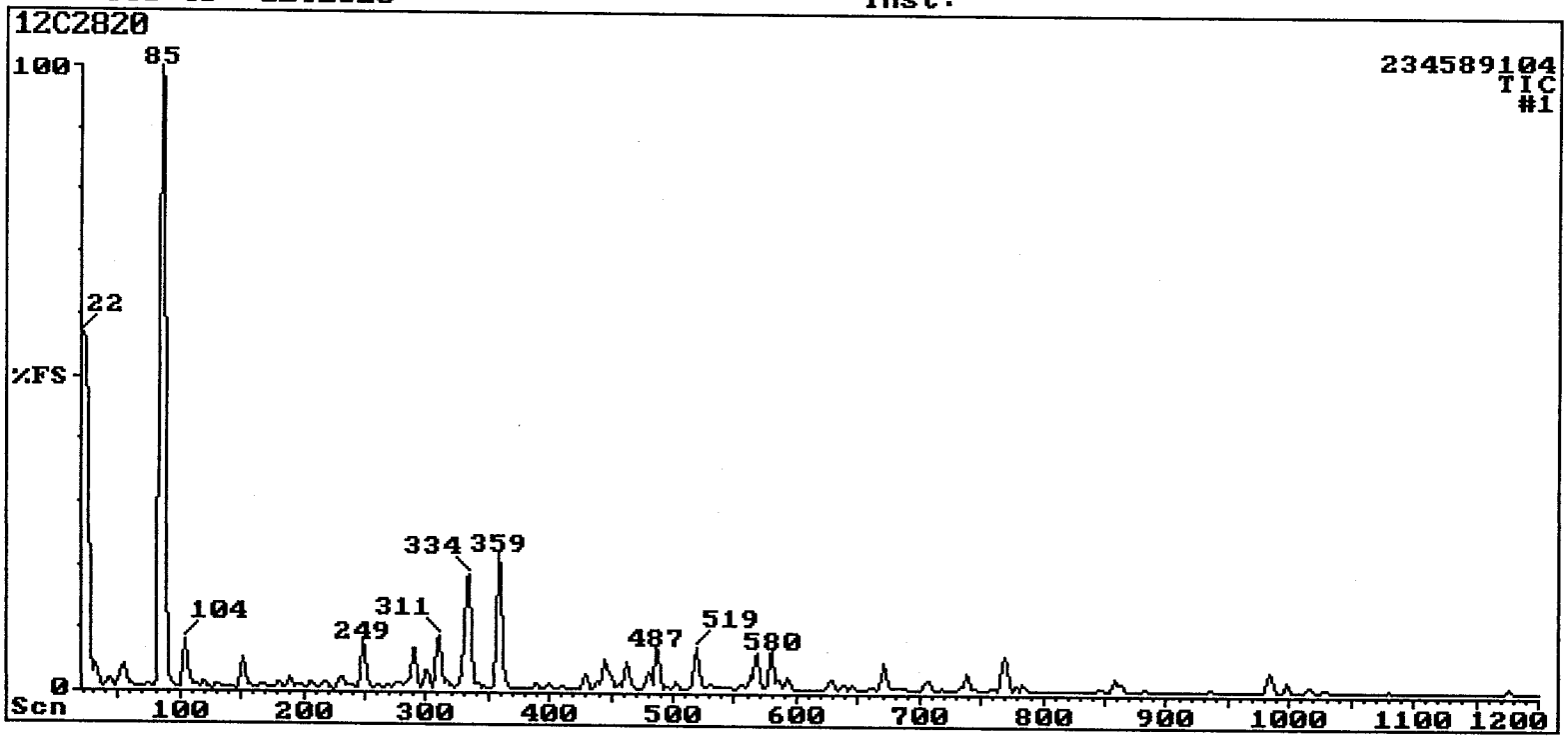
Compound	Sample Conc ug/L		PQL ug/L	Labeled Cpd. Recovery
N-Nitrosodimethylamine	3.4100	E	0.0020	58 %

U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve
na = Compound has no corresponding labeled reference
PQL = Practical Quantitation Limit

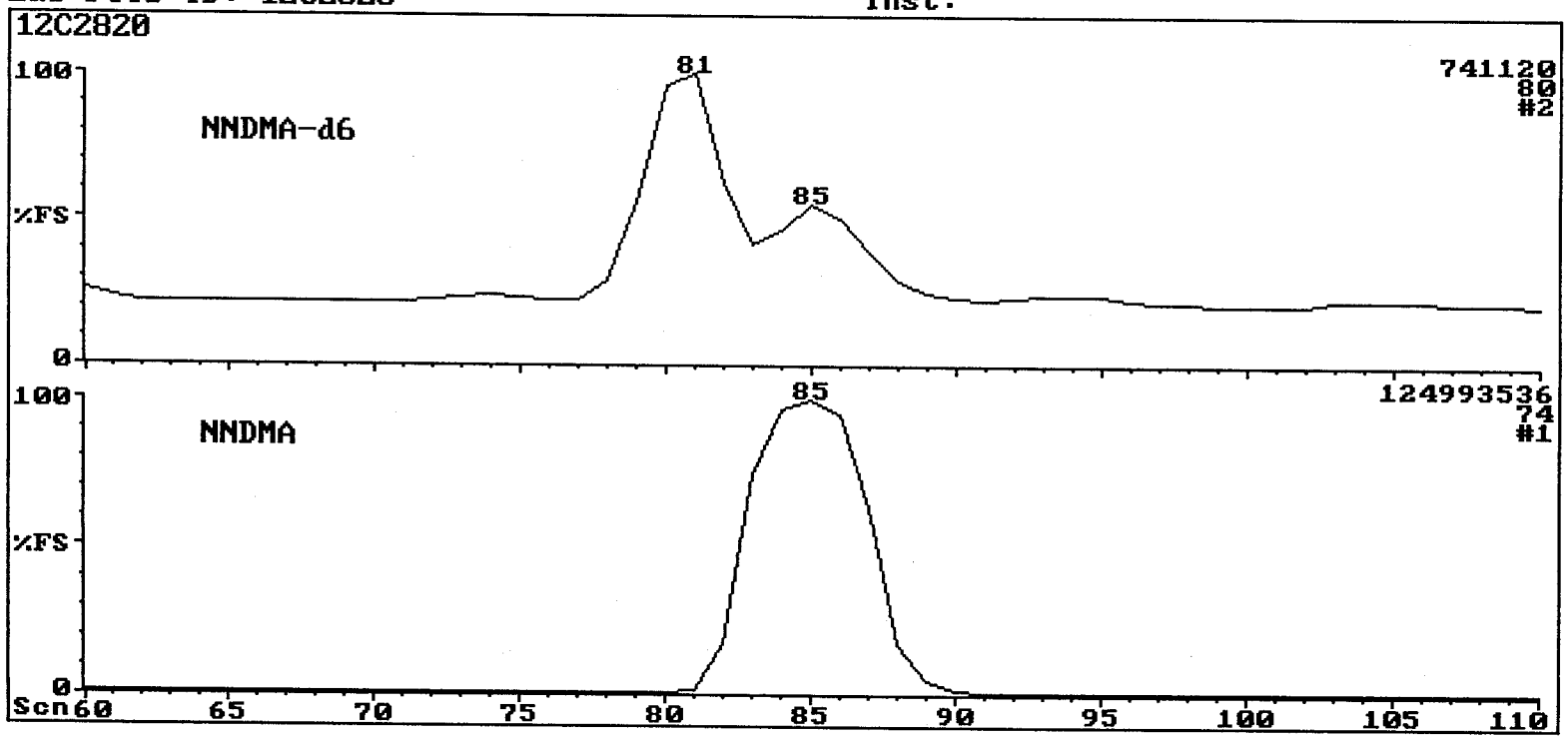
NNDMA MDL = 0.0005 ug/L

14

Sample: DW031306B 2530-002 Analyzed: 03/28/06 1903
Lab File ID: 12C2820 Inst:



Sample: DW031306B 2530-002 Analyzed: 03/28/06 1903
Lab File ID: 12C2820 Inst:



Sample No.: DW031306B 2530-002 Analyzed: 03/28/06 1903
File ID: 12C2820 Instrument ID: VG12

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Interim Report LAB-BASE FIND 03/29/~~05~~ 06 0518

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JB 3/29/06

Raw Datafile : 12C2820 Quan DB : 12C2820
Find DB : NNDMA Scan DB :

No.	Spectrum MAT	Spectrum FOR	Spectrum REV	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	QM	Compound Name
1	100	68	100	0	12445825	bb	998	998	190	2,2'-Difluorobiphenyl
2	99	65	99	0	1898570	vv	81	81	80	N-Nitrosodimethylamine-d6
3	100	89	89	-1	590953031	b?	85	86	74	N-Nitrosodimethylamine

17

Quantitation Results

Sample: DW031306B Lab ID: 2530-002 File: 12C2820
Instr: VG12 Acqu Date: 03/28/06 Acqu Time: 1903
Initial Size: 1000.0000 Final Size: 0.1000 ml

Compound	Target Conc ug/ml	Sample Conc ug/L	% Label Rec	Limits
N-Nitrosodimethylamine	34.09953	3.40995	58	25 - 175

18

EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DW031306BDL

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 10.000 ml
Concentrated Extract Volume: 100 ul
Injection Volume: 1 ul

Lab Sample ID: 2530-002DL
Lab File ID: 12C2838
Date Sampled: 03/13/06
Date Extracted: 03/15/06
Date Analyzed: 03/29/06
Time Analyzed: 0758

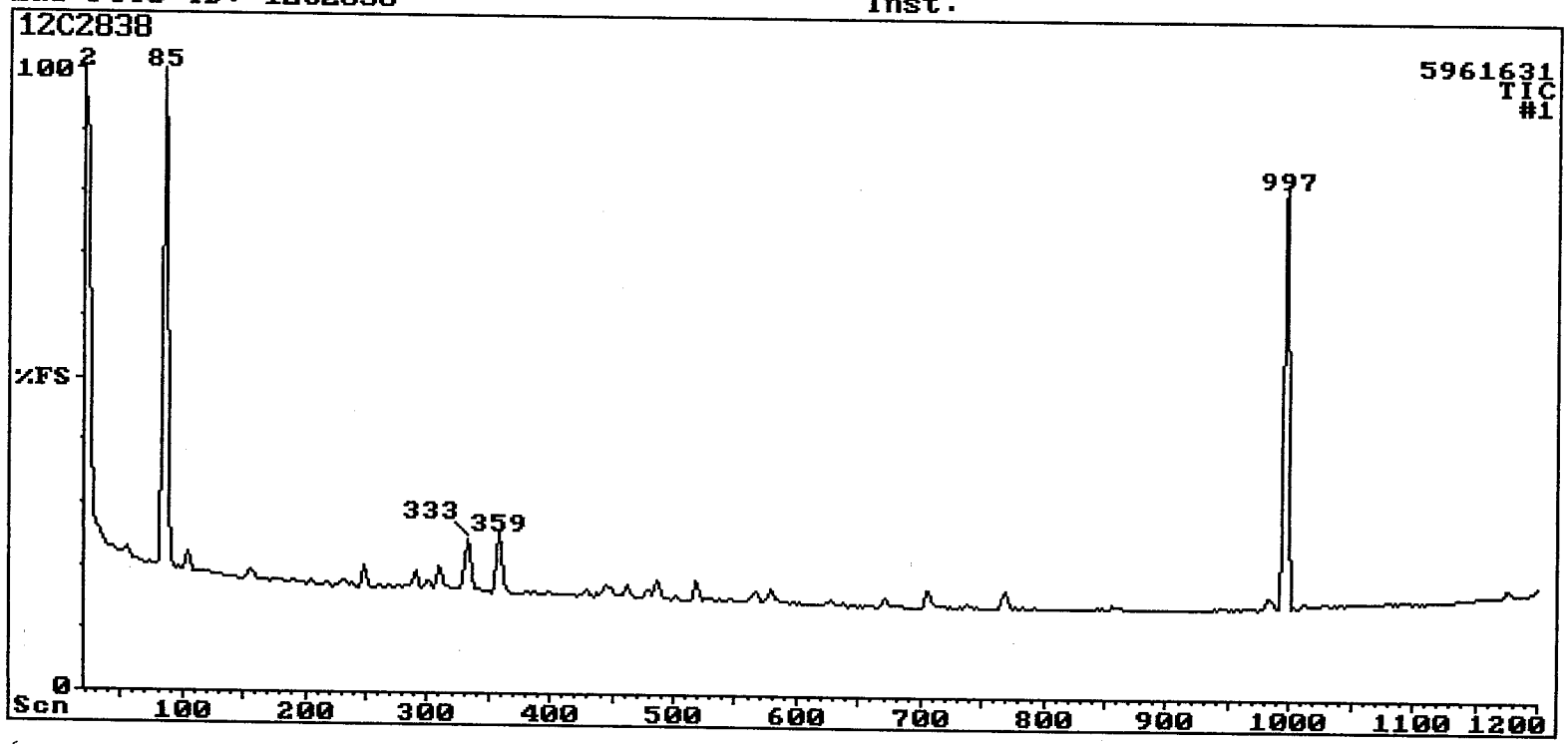
Compound	Sample Conc ug/L	PQL ug/L	Labeled Cpd. Recovery
N-Nitrosodimethylamine	2.6950	0.2000	na

U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve
na = Compound has no corresponding labeled reference
PQL = Practical Quantitation Limit

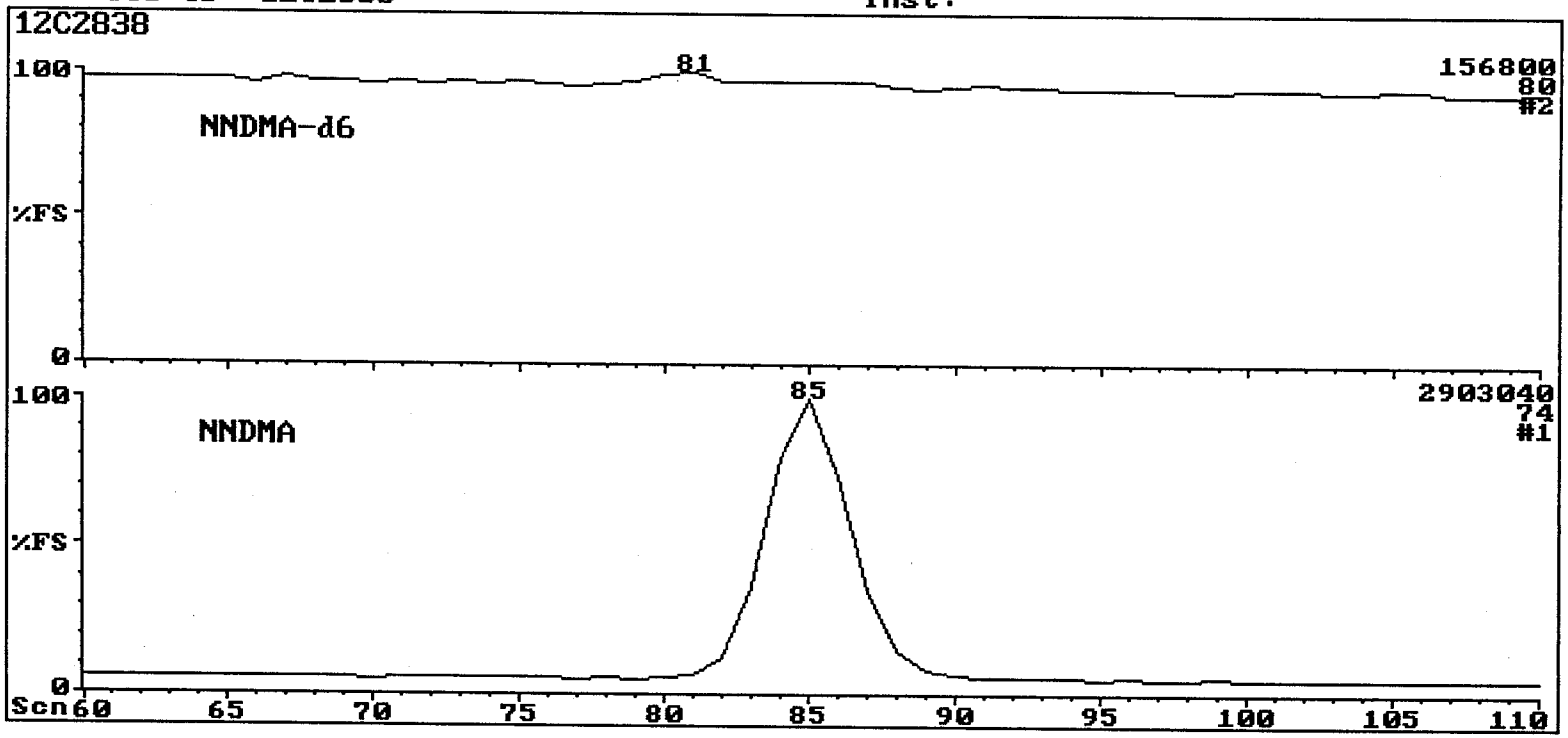
NNDMA MDL = 0.0005 ug/L

19

Sample: DW031306BDL 2530-002DL Analyzed: 03/29/06 0758
Lab File ID: 12C2838 Inst:



Sample: DW031306BDL 2530-002DL Analyzed: 03/29/06 0758
Lab File ID: 12C2838 Inst:



Sample No.: DW031306BDL 2530-002DL Analyzed: 03/29/06 0758
File ID: 12C2838 Instrument ID: VG12

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Interim Report LAB-BASE FIND 03/29/~~86~~ 06 0842

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03/29/06

Raw Datafile : 12C2838 Quan DB : 12C2838
Find DB : NNDMA Scan DB :

No.	Spectrum MAT	Scan FOR	Scan REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	80	100	-1	14032778	vv	997	998	190	2,2'-Difluorobiphenyl
2	85	49	93	0	24872	!!	81	81	80	N-Nitrosodimethylamine-d6
	68	48	93	-6	307	!!	75			
3	100	80	90	-1	9375307	bv	85	86	74	N-Nitrosodimethylamine

22

Quantitation Results

Sample: DW031306BDL Lab ID: 2530-002DL File: 12C2838
Instr: VG12 Acqu Date: 03/29/06 Acqu Time: 0758
Initial Size: 10.0000 Final Size: 0.1000 ml

Compound	Target Conc ug/ml	Sample Conc ug/L	% Label Rec	Limits
N-Nitrosodimethylamine	0.26950	2.69496		

23

METHOD 1625 ISOTOPE DILUTION
LABELED COMPOUNDS

Lab Name: PACIFIC ANALYTICAL Instr. ID: VG12 Cal. Date: 03/28/06

LAB FILE IDs: Conc1 = 12C2805
Conc2 = 12C2806
Conc3 = 12C2807
Conc4 = 12C2808
Conc5 = 12C2809

COMPOUND	RF Conc1	RF Conc2	RF Conc3	RF Conc4	RF Conc5	RF MEAN	% RSD
N-Nitrosodimethylamine-d6	0.273	0.265	0.262	0.258	0.256	0.263	2.6

24

METHOD 1625 ISOTOPE DILUTION
COMPOUNDS HAVING A LABELED REFERENCE

Lab Name: PACIFIC ANALYTICAL Instr. ID: VG12 Cal. Date: 03/28/06

LAB FILE IDs: Conc1 = 12C2805
Conc2 = 12C2806
Conc3 = 12C2807
Conc4 = 12C2808
Conc5 = 12C2809

COMPOUND	RX	RR Conc1	RR Conc2	RR Conc3	RR Conc4	RR Conc5
N-Nitrosodimethylami	999999	0.208	0.500	0.971	4.774	9.131

25

CONCENTRATIONS OF CALIBRATION STANDARDS

	Compound	Ical Type	Resp Ref	Calibration Standards Conc1 ug/L	Conc2 ug/L	Conc3 ug/L	Conc4 ug/L	Conc5 ug/L
1	2,2'-Difluorobiphenyl	I	1	0.10	0.10	0.10	0.10	0.10
2	N-Nitrosodimethylamine	L	1	0.10	0.10	0.10	0.10	0.10
3	N-Nitrosodimethylamine	U	2	0.02	0.05	0.10	0.50	1.00

I = internal standard; L = labeled compound; U = unlabeled native
O = compound referenced to internal standard

26

Sample No.: 0.02 PPM STD NSTD0.02 Analyzed: 03/28/06 0846
File ID: 12C2805 Instrument ID: VG12

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Interim Report LAB-BASE FIND 03/28/~~85~~ 06 1212

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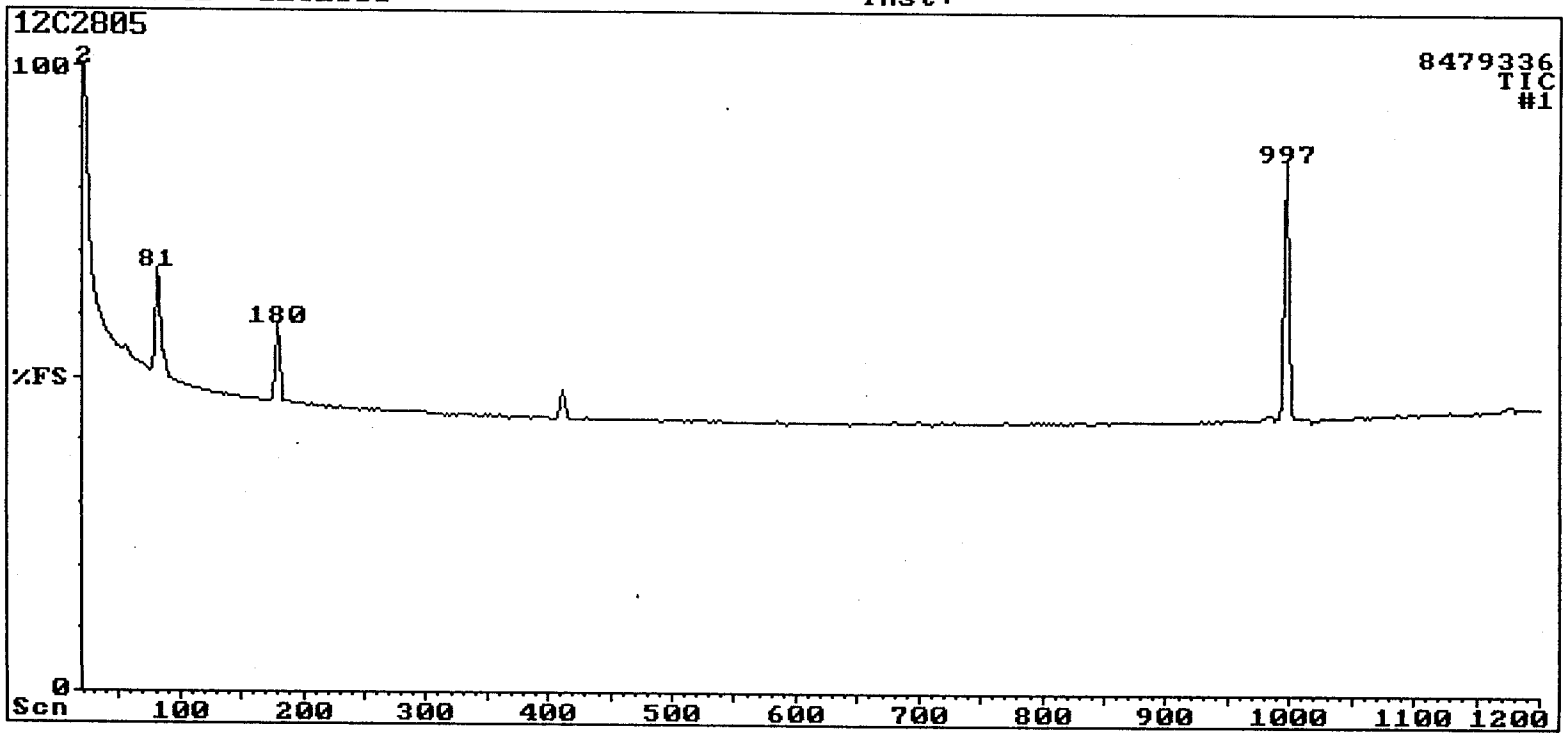
JS 3/28/06

Raw Datafile : 12C2805 Quan DB : 12C2805
Find DB : NNDMA Scan DB :

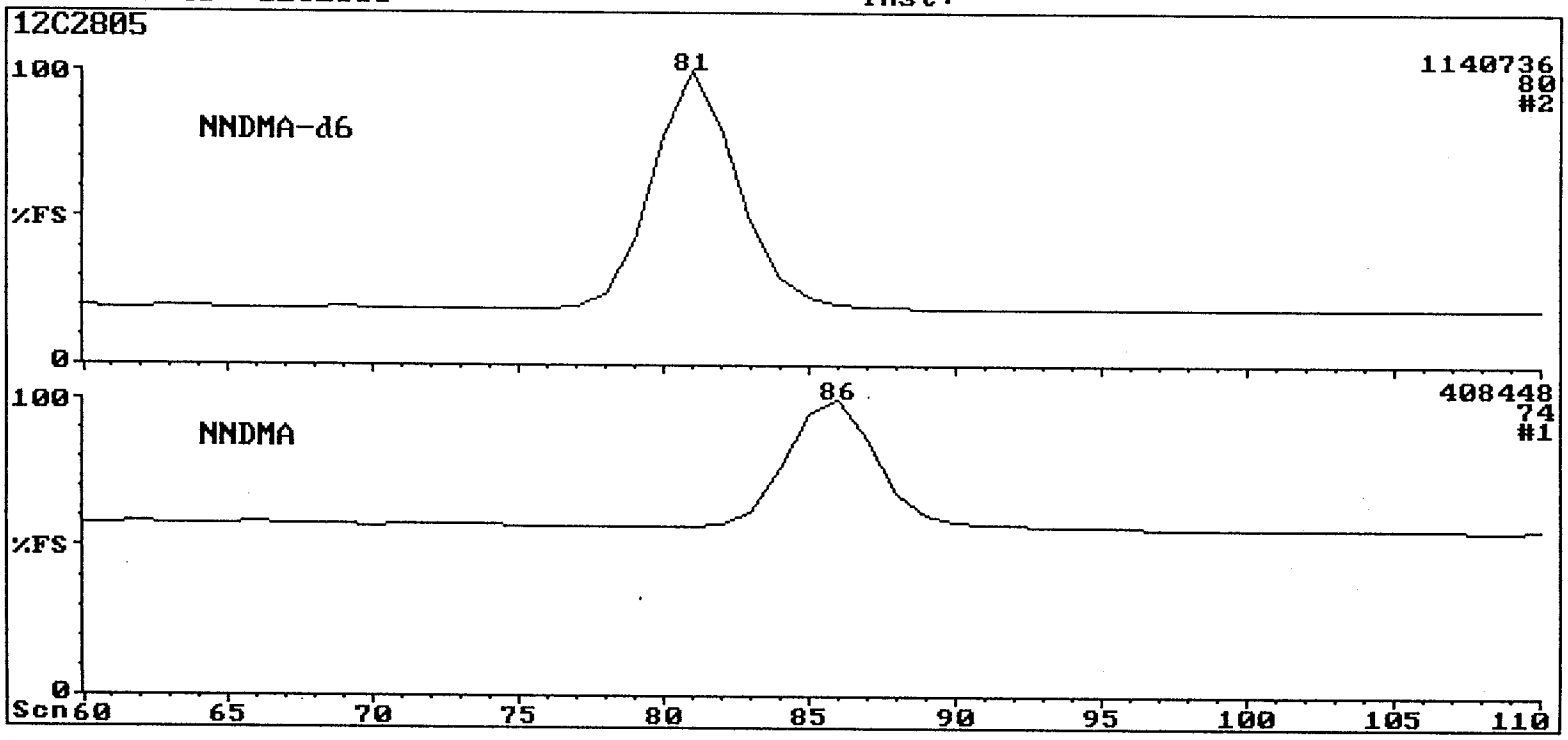
No.	Spectrum MAT	Scan FOR	Scan REV	Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	92	47	100	0	11705333	bv	997	997	190	2,2'-Difluorobiphenyl
2	100	77	98	0	3197821	bv	81	81	80	N-Nitrosodimethylamine-d6
3	59	23	71	0	664128	!!	86	86	74	N-Nitrosodimethylamine
	39	18	64	6	15257	!!	92			
	35	18	64	8	11639	!!	94			

27

Sample: 0.02 PPM STD NSTD0.02 Analyzed: 03/28/06 0846
Lab File ID: 12C2805 Inst:



Sample: 0.02 PPM STD NSTD0.02 Analyzed: 03/28/06 0846
Lab File ID: 12C2805 Inst:



Sample No.: 0.05 PPM STD NSTD0.05 Analyzed: 03/28/06 0927
File ID: 12C2806 Instrument ID: VG12

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Interim Report LAB-BASE FIND 03/28/~~86~~ 06 1213

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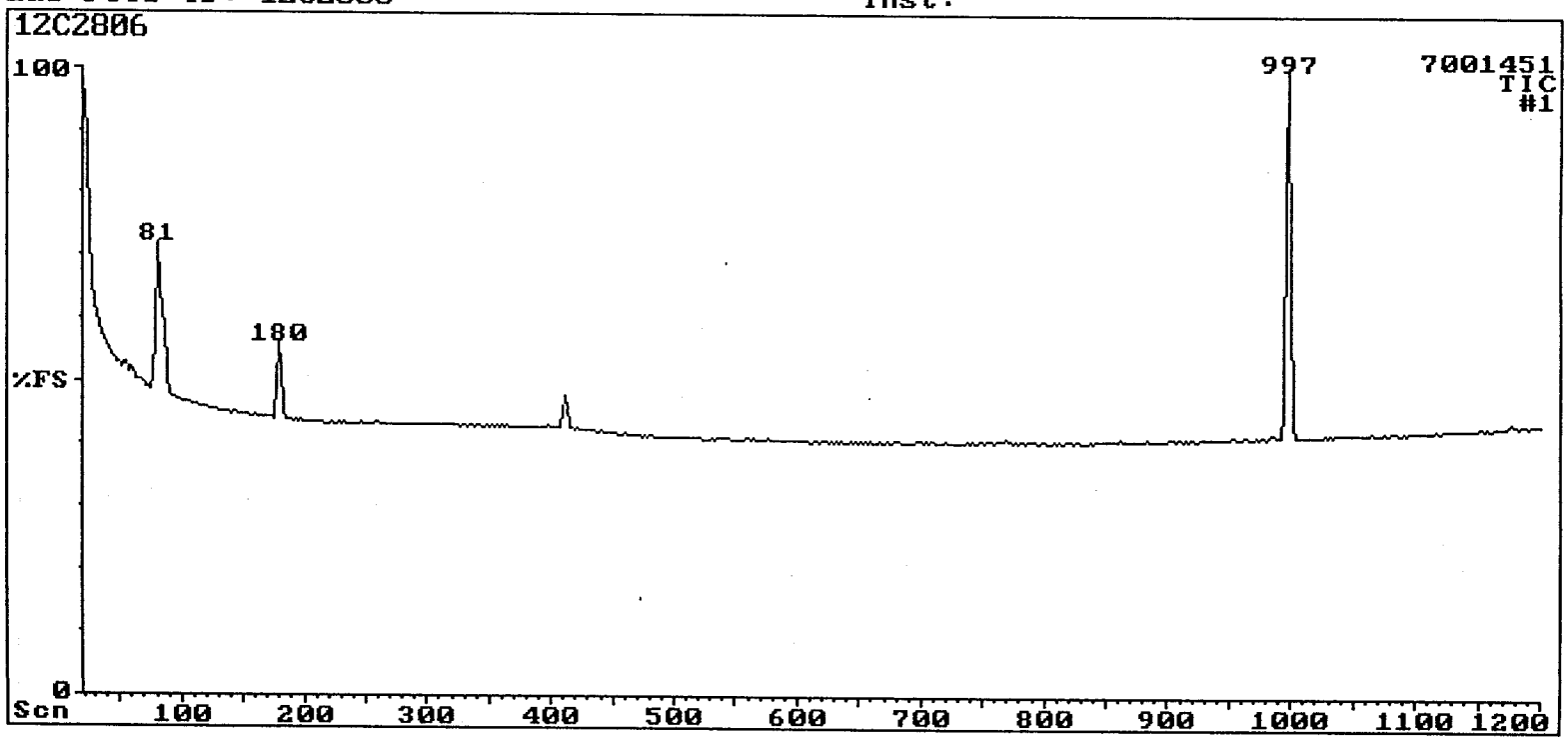
JS3/28/06

Raw Datafile : 12C2806 Quan DB : 12C2806
Find DB : NNDMA Scan DB :

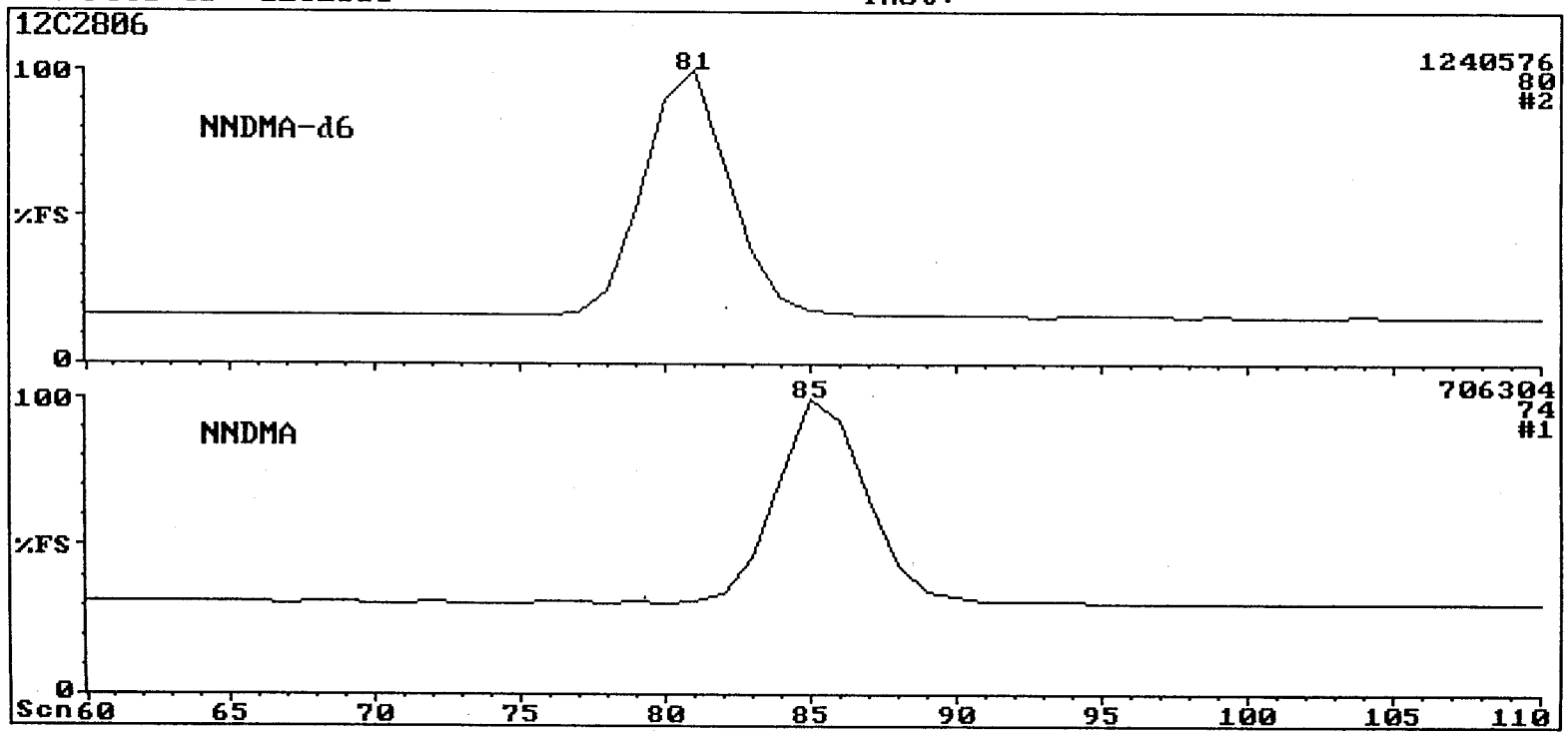
No.	Spectrum MAT	Spectrum FOR	Spectrum REV	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	QM	Compound Name
1	94	57	100	-1	13624762	bv	997	998	190	2,2'-Difluorobiphenyl
2	100	78	99	0	3610834	bv	81	81	80	N-Nitrosodimethylamine-d6
3	70	35	81	-1	1807264	vv	85	86	74	N-Nitrosodimethylamine

30

Sample: 0.05 PPM STD NSTD0.05 Analyzed: 03/28/06 0927
Lab File ID: 12C2806 Inst:



Sample: 0.05 PPM STD NSTD0.05 Analyzed: 03/28/06 0927
Lab File ID: 12C2806 Inst:



Sample No.: 0.10 PPM STD NSTD0.10 Analyzed: 03/28/06 1009
File ID: 12C2807 Instrument ID: VG12

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Interim Report LAB-BASE FIND 03/28/~~86~~ 06 1214

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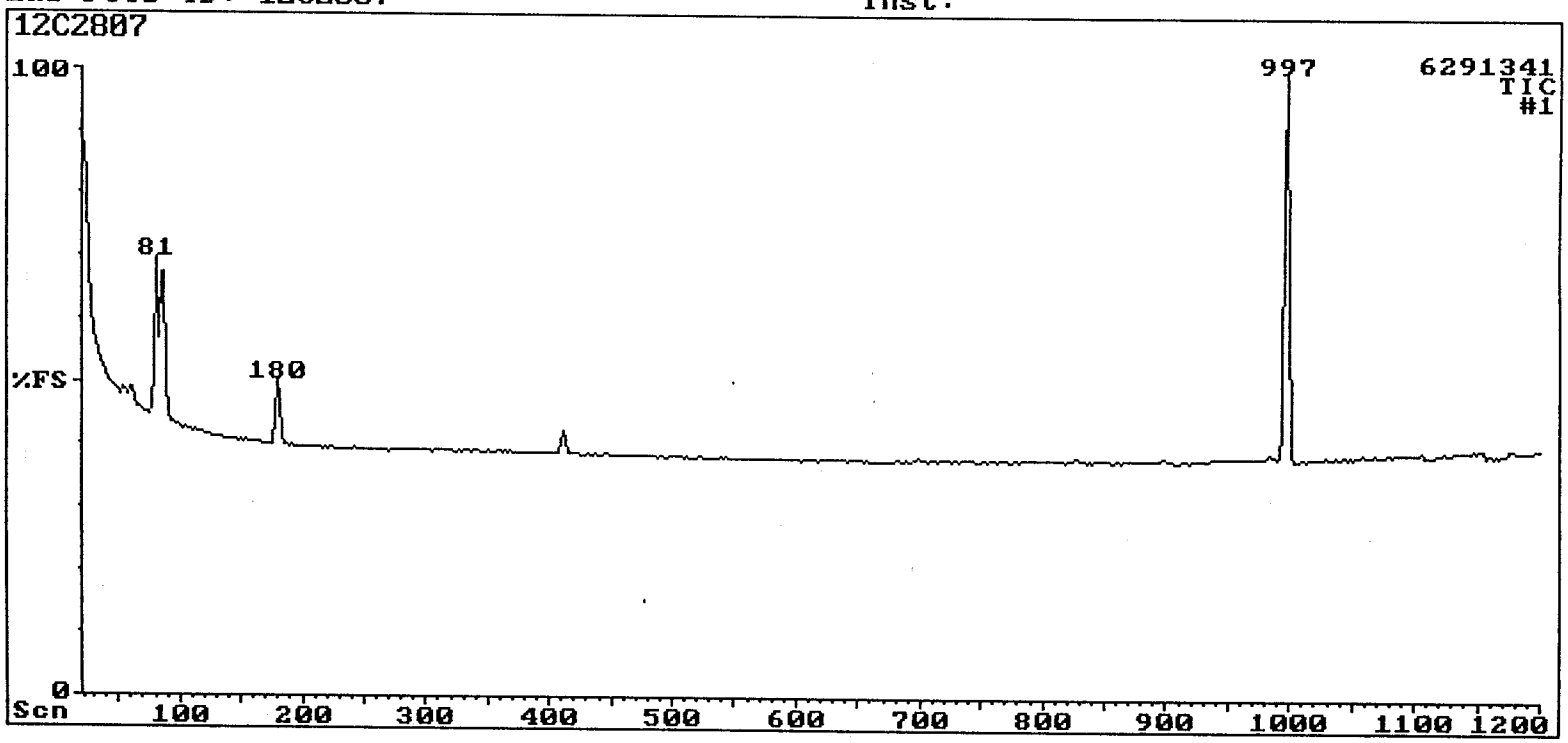
JS 3/28/06

Raw Datafile : 12C2807 Quan DB : 12C2807
Find DB : NNDMA Scan DB :

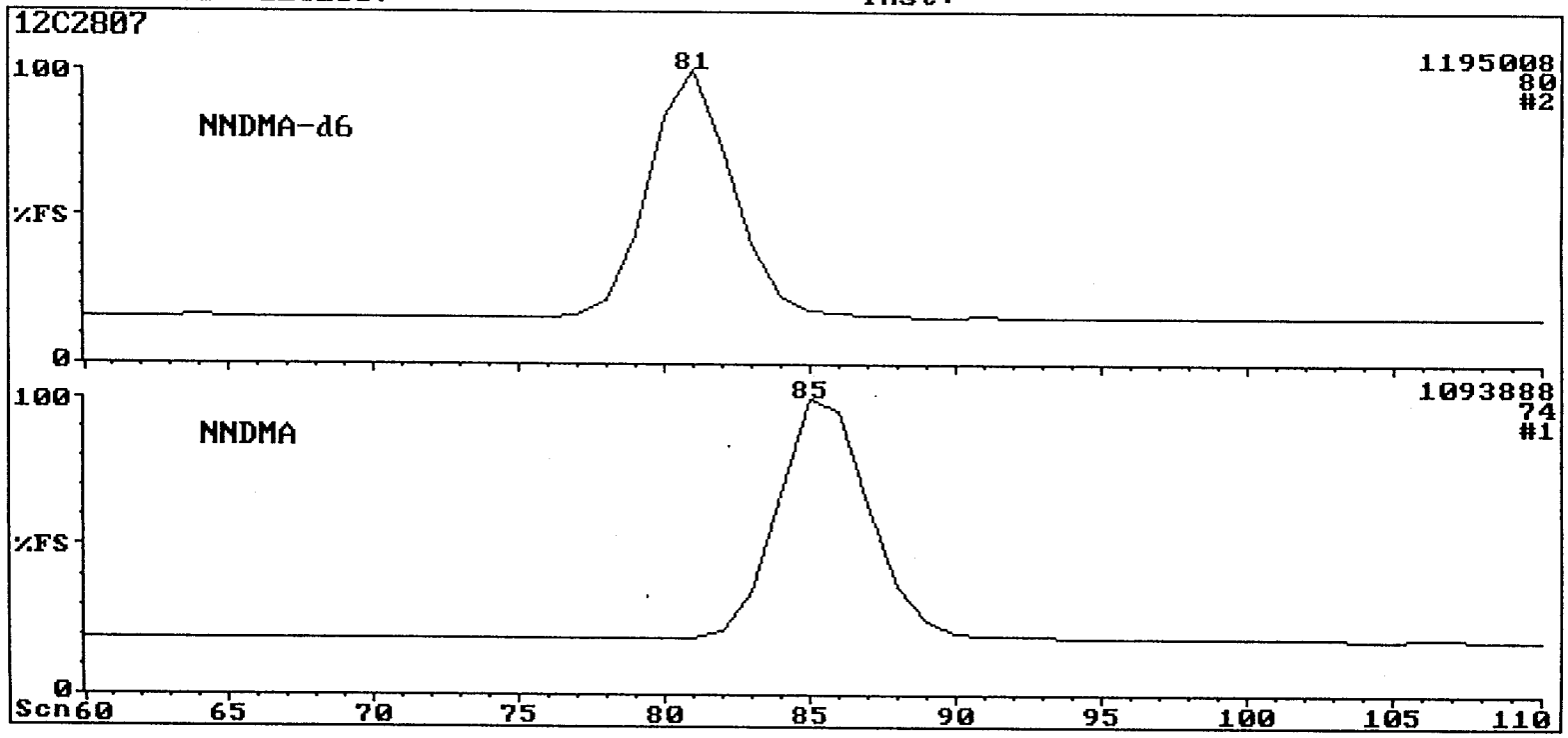
No.	Spectrum MAT	Scan FOR	Scan REV	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	QM	Compound Name
1	97	61	100	-1	12963872	bb	997	998	190	2,2'-Difluorobiphenyl
2	100	78	100	0	3401352	bv	81	81	80	N-Nitrosodimethylamine-d6
3	80	47	86	-1	3302182	bv	85	86	74	N-Nitrosodimethylamine

33

Sample: 0.10 PPM STD NSTD0.10 Analyzed: 03/28/06 1009
Lab File ID: 12C2807 Inst:



Sample: 0.10 PPM STD NSTD0.10 Analyzed: 03/28/06 1009
Lab File ID: 12C2807 Inst:



Sample No.: 0.50 PPM STD NSTD0.50 Analyzed: 03/28/06 1050
File ID: 12C2808 Instrument ID: VG12

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Interim Report LAB-BASE FIND 03/28/~~06~~ 06 1215

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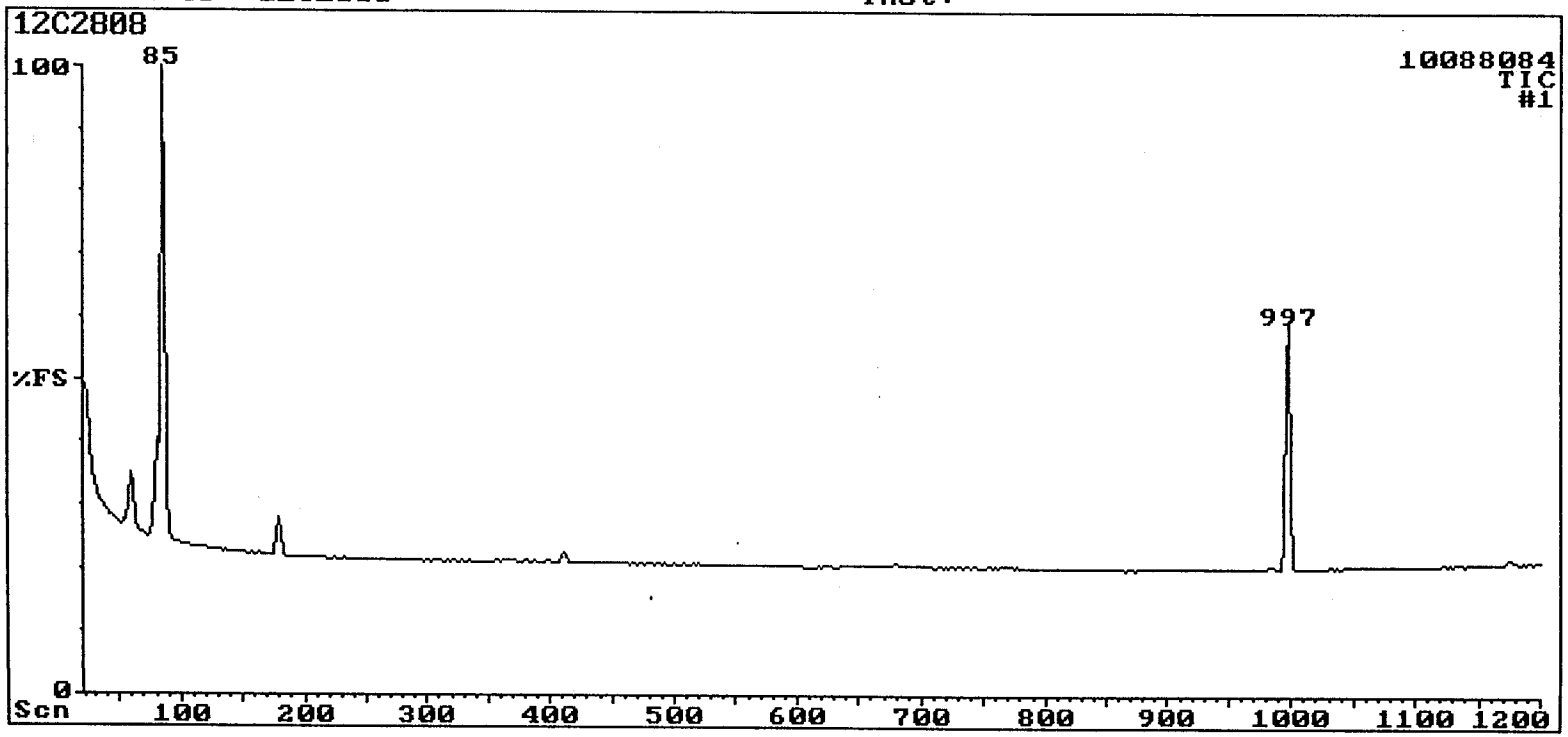
03/28/06

Raw Datafile : 12C2808 Quan DB : 12C2808
Find DB : NNDMA Scan DB :

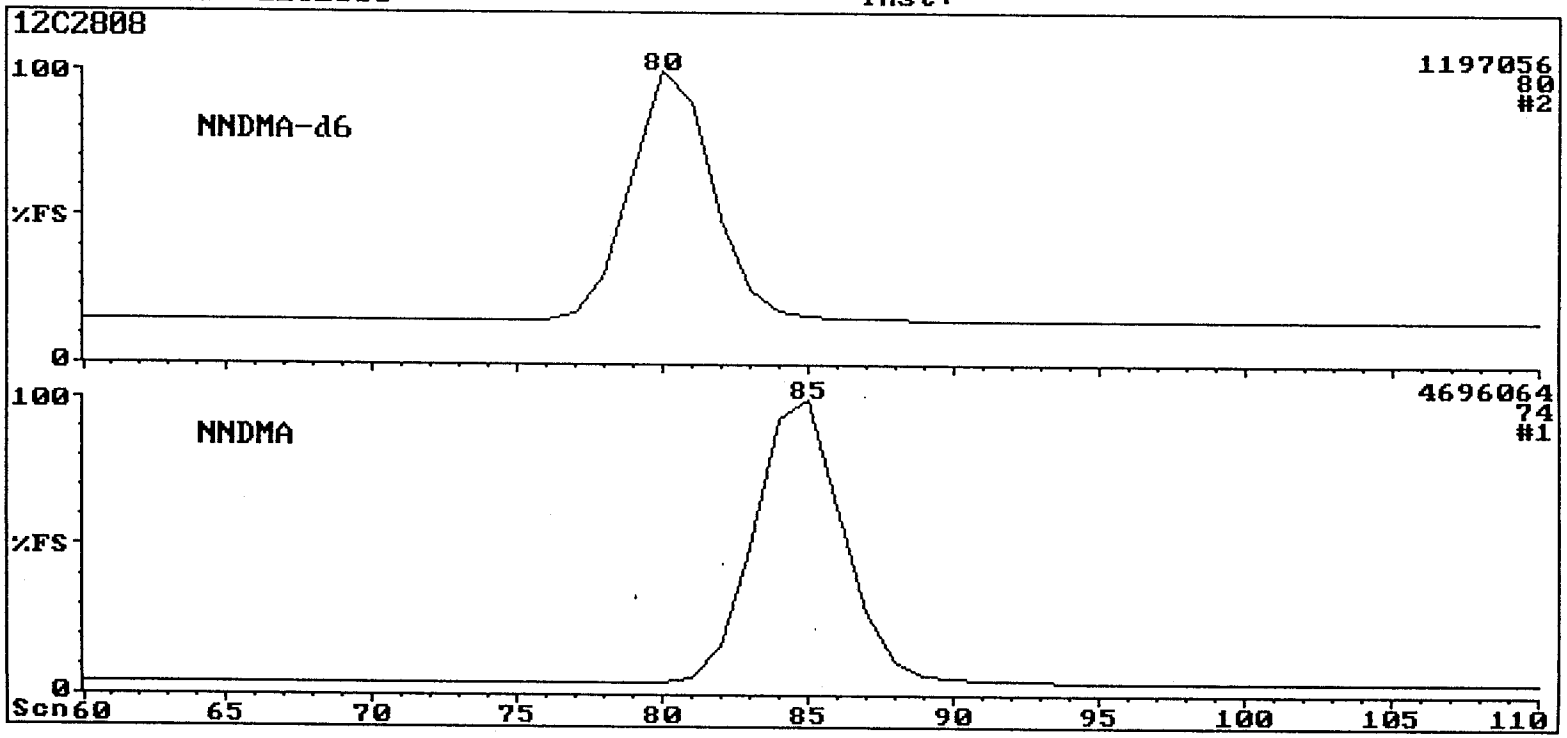
No.	MAT	Spectrum FOR	Scan REV	Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	99	65	100	-1	13044297	vv	997	998	190	2,2'-Difluorobiphenyl
2	100	76	100	-1	3361353	bv	80	81	80	N-Nitrosodimethylamine-d6
3	100	76	90	-1	16048146	bv	85	86	74	N-Nitrosodimethylamine

36

Sample: 0.50 PPM STD NSTD0.50 Analyzed: 03/28/06 1050
Lab File ID: 12C2808 Inst:



Sample: 0.50 PPM STD NSTD0.50 Analyzed: 03/28/06 1050
Lab File ID: 12C2808 Inst:



Sample No.: 1.00 PPM STD NSTD1.00 Analyzed: 03/28/06 1131
File ID: 12C2809 Instrument ID: VG12

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Interim Report LAB-BASE FIND 03/28/~~86~~ 06 1215

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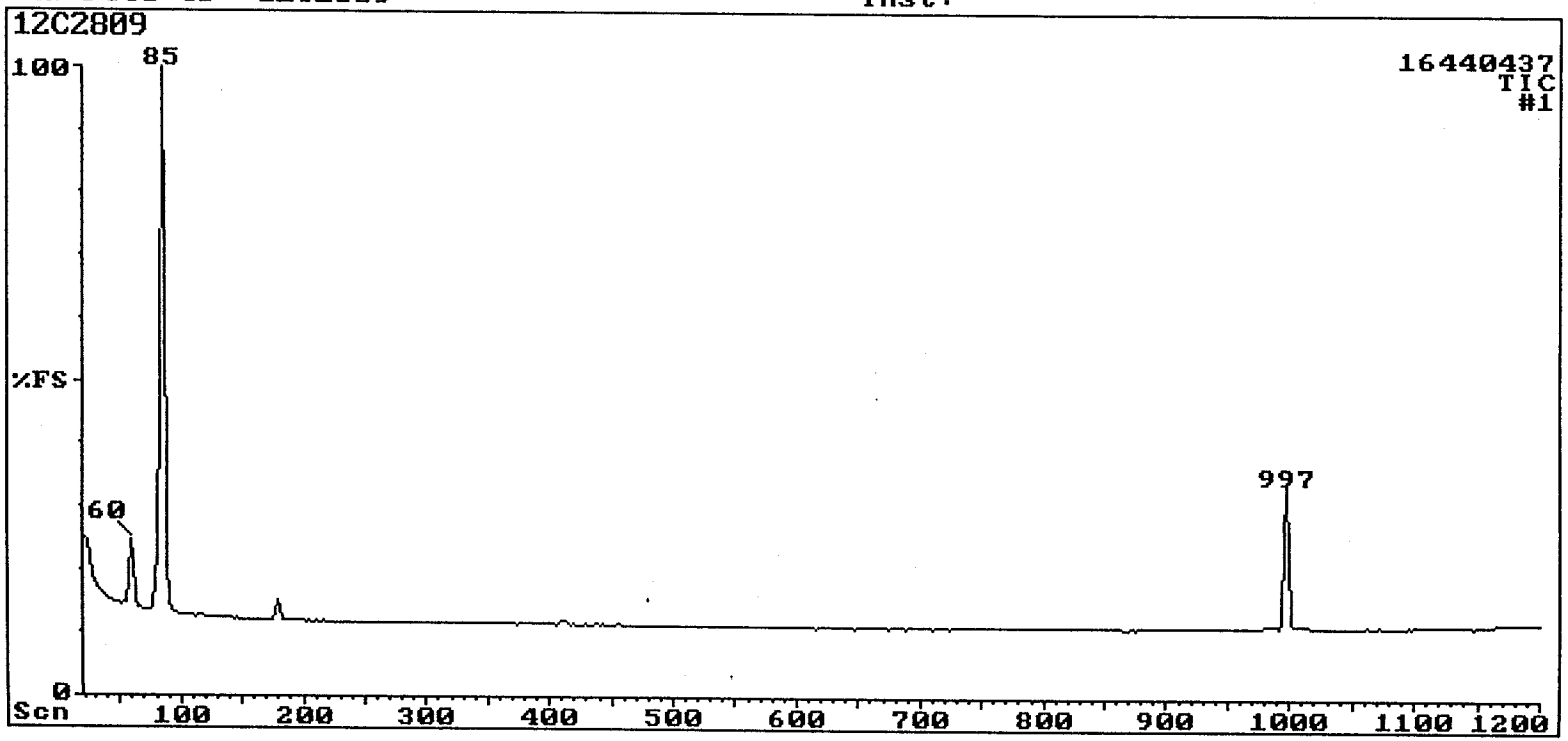
03/28/06

Raw Datafile : 12C2809 Quan DB : 12C2809
Find DB : NNDMA Scan DB :

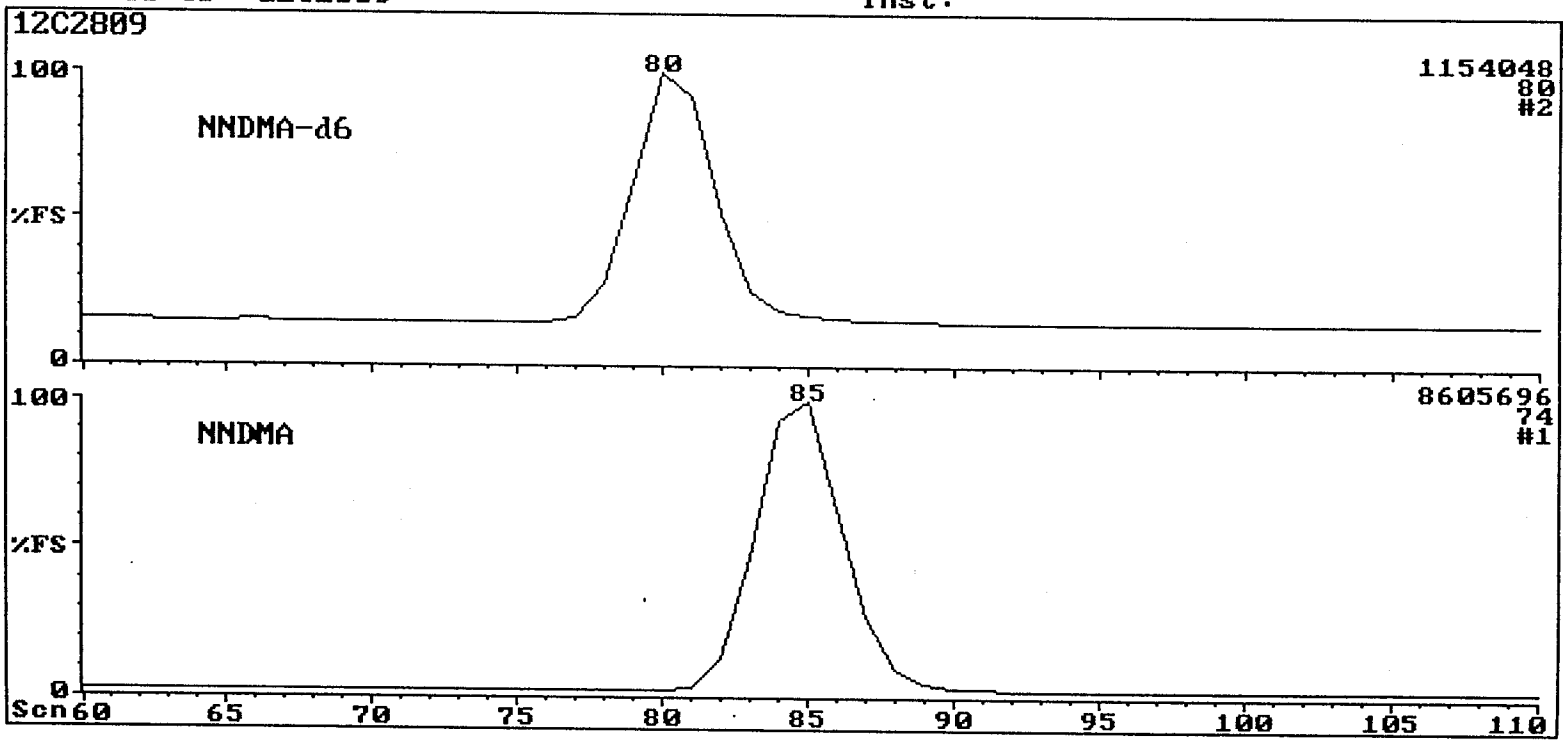
No.	MAT	Spectrum FOR	Spectrum REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	65	100	0	12775864	bb	997	997	190	2,2'-Difluorobiphenyl
2	100	76	100	-1	3264154	vv	80	81	80	N-Nitrosodimethylamine-d6
3	100	83	91	-1	29804297	bv	85	86	74	N-Nitrosodimethylamine

39

Sample: 1.00 PPM STD NSTD1.00 Analyzed: 03/28/06 1131
Lab File ID: 12C2809 Inst:



Sample: 1.00 PPM STD NSTD1.00 Analyzed: 03/28/06 1131
Lab File ID: 12C2809 Inst:



Sample No.: 5.00 PPM STD NSTD5.00 Analyzed: 03/28/06 1212
File ID: 12C2810 Instrument ID: VG12

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Interim Report LAB-BASE FIND 03/28/~~85~~ 06 1235

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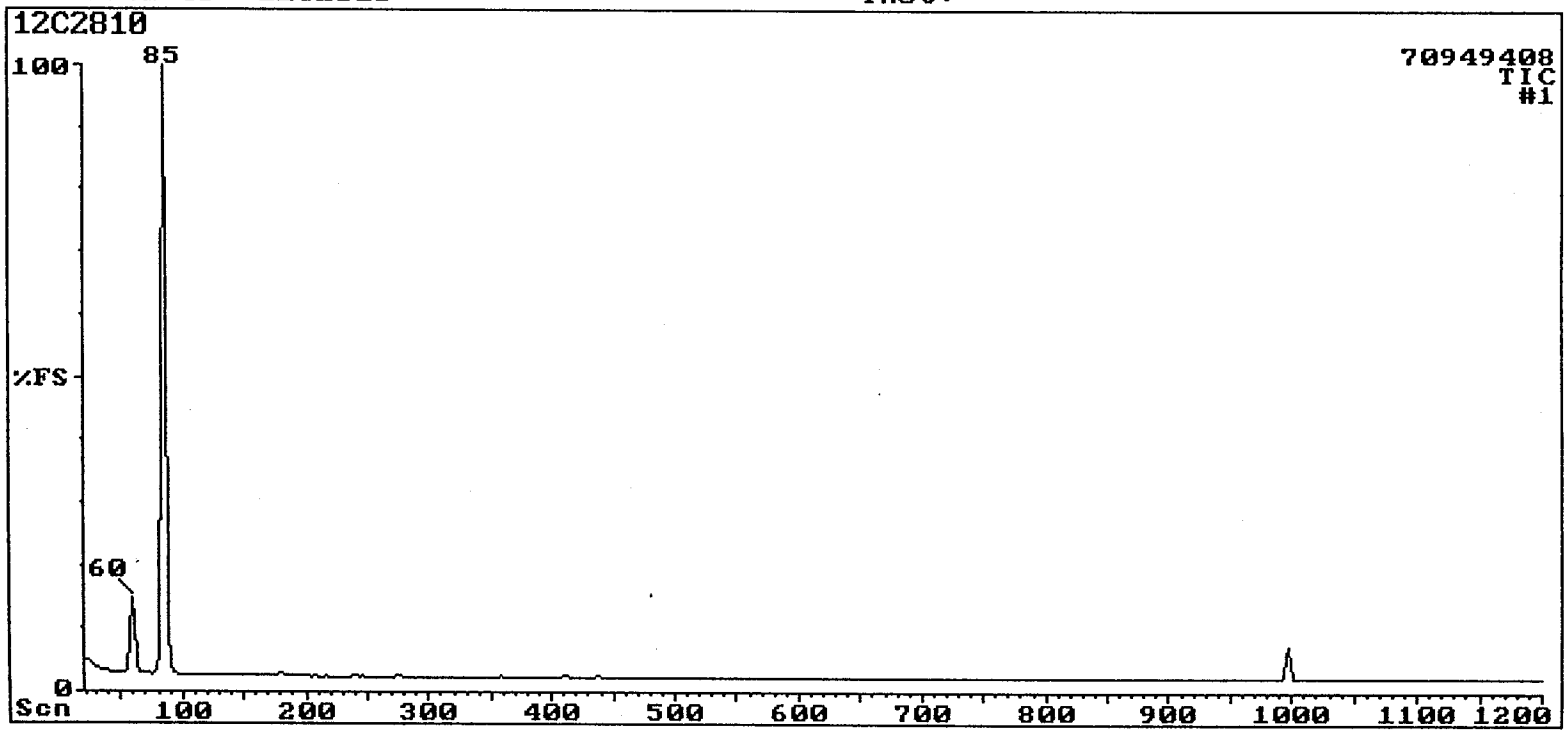
03/28/06

Raw Datafile : 12C2810 Quan DB : 12C2810
Find DB : NNDMA Scan DB :

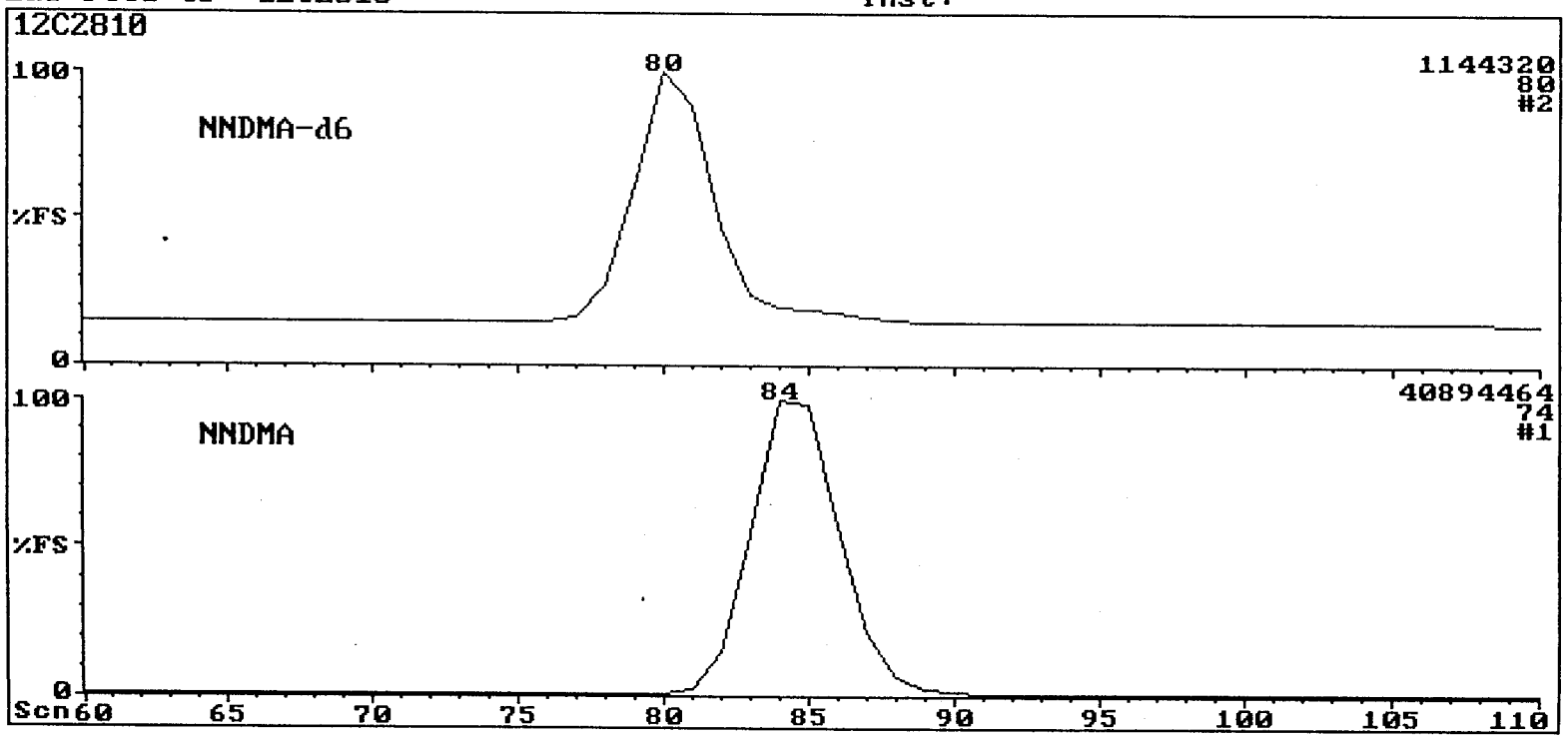
No.	Spectrum MAT	Spectrum FOR	Spectrum REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	67	100	0	12367912	bb	997	997	190	2,2'-Difluorobiphenyl
2	100	74	100	-1	3201472	bb	80	81	80	N-Nitrosodimethylamine-d6
3	100	91	93	-2	145586813	b?	84	86	74	N-Nitrosodimethylamine

42

Sample: 5.00 PPM STD NSTD5.00 Analyzed: 03/28/06 1212
Lab File ID: 12C2810 Inst:



Sample: 5.00 PPM STD NSTD5.00 Analyzed: 03/28/06 1212
Lab File ID: 12C2810 Inst:



METHOD 1625 ISOTOPE DILUTION
COMPOUNDS HAVING NO LABELED REFERENCE

Lab Name: PACIFIC ANALYTICAL Instr. ID: VG12 Cal. Date: 03/28/06

LAB FILE IDs:
Conc1 = 12C2805I
Conc2 = 12C2806I
Conc3 = 12C2807I
Conc4 = 12C2808I
Conc5 = 12C2809I

Calculations Using Mean Response Factor

COMPOUND	RF Conc1	RF Conc2	RF Conc3	RF Conc4	RF Conc5	RF MEAN	% RSD

Calculations Using Calibration Curve

COMPOUND	RX	RR Conc1	RR Conc2	RR Conc3	RR Conc4	RR Conc5
N-Nitrosodimethylamine	999999	0.057	0.133	0.255	1.230	2.333

45

CONCENTRATIONS OF CALIBRATION STANDARDS

	Compound	Ical Type	Resp Ref	Calibration Standards Conc1 ug/L	Conc2 ug/L	Conc3 ug/L	Conc4 ug/L	Conc5 ug/L
1	2,2'-Difluorobiphenyl	I	1	0.10	0.10	0.10	0.10	0.10
2	N-Nitrosodimethylamine	L	1	0.10	0.10	0.10	0.10	0.10
3	N-Nitrosodimethylamine	Z	1	0.02	0.05	0.10	0.50	1.00

I = internal standard; L = labeled compound; U = unlabeled native
O = compound referenced to internal standard

46

Sample No.: 0.02 PPM STD NSTD0.02 Analyzed: 03/28/06 0846
File ID: 12C2805I Instrument ID: VG12

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Interim Report LAB-BASE FIND 03/29/~~86~~ 06 0814

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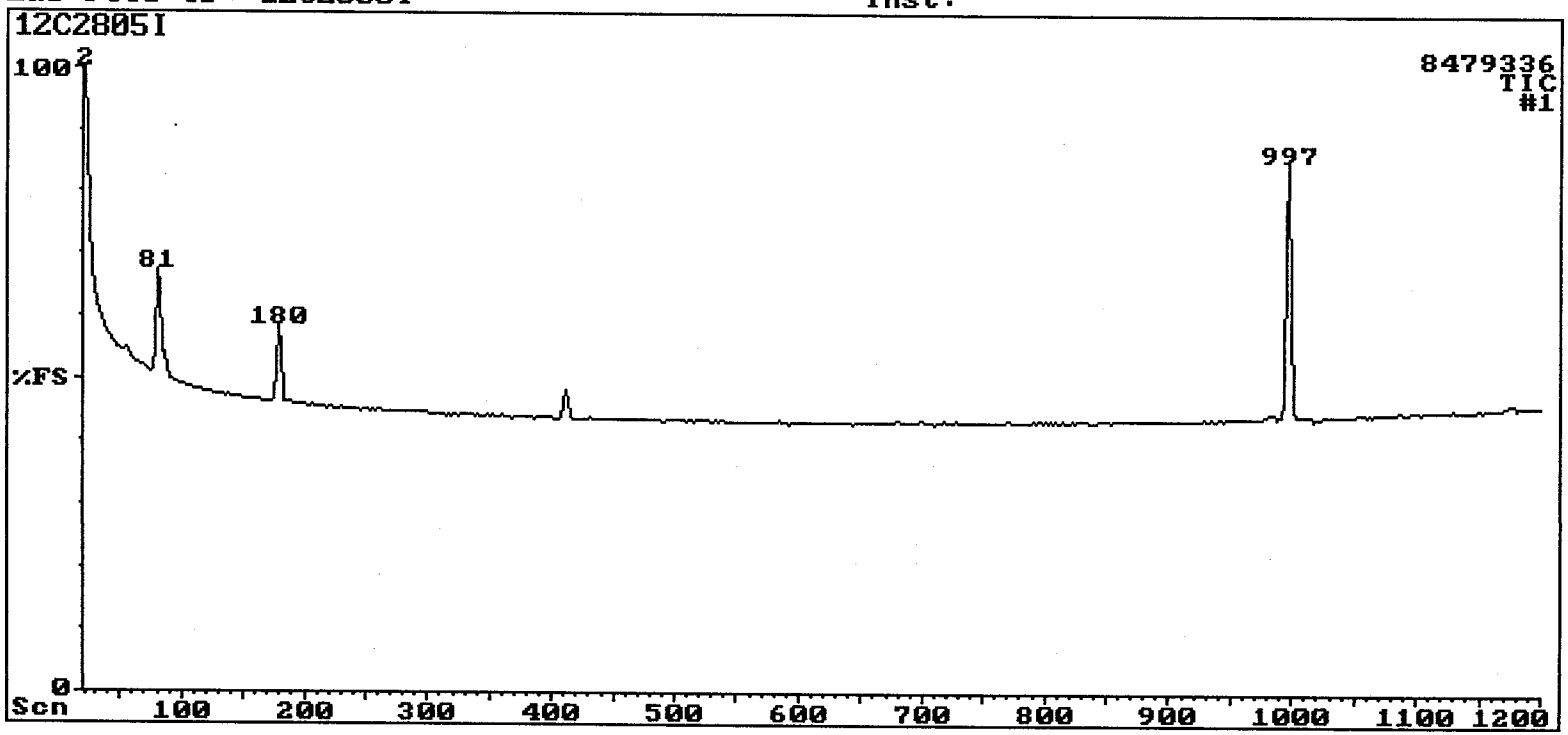
03/29/06

Raw Datafile : 12C2805I Quan DB : 12C2805I
Find DB : NNDMA Scan DB :

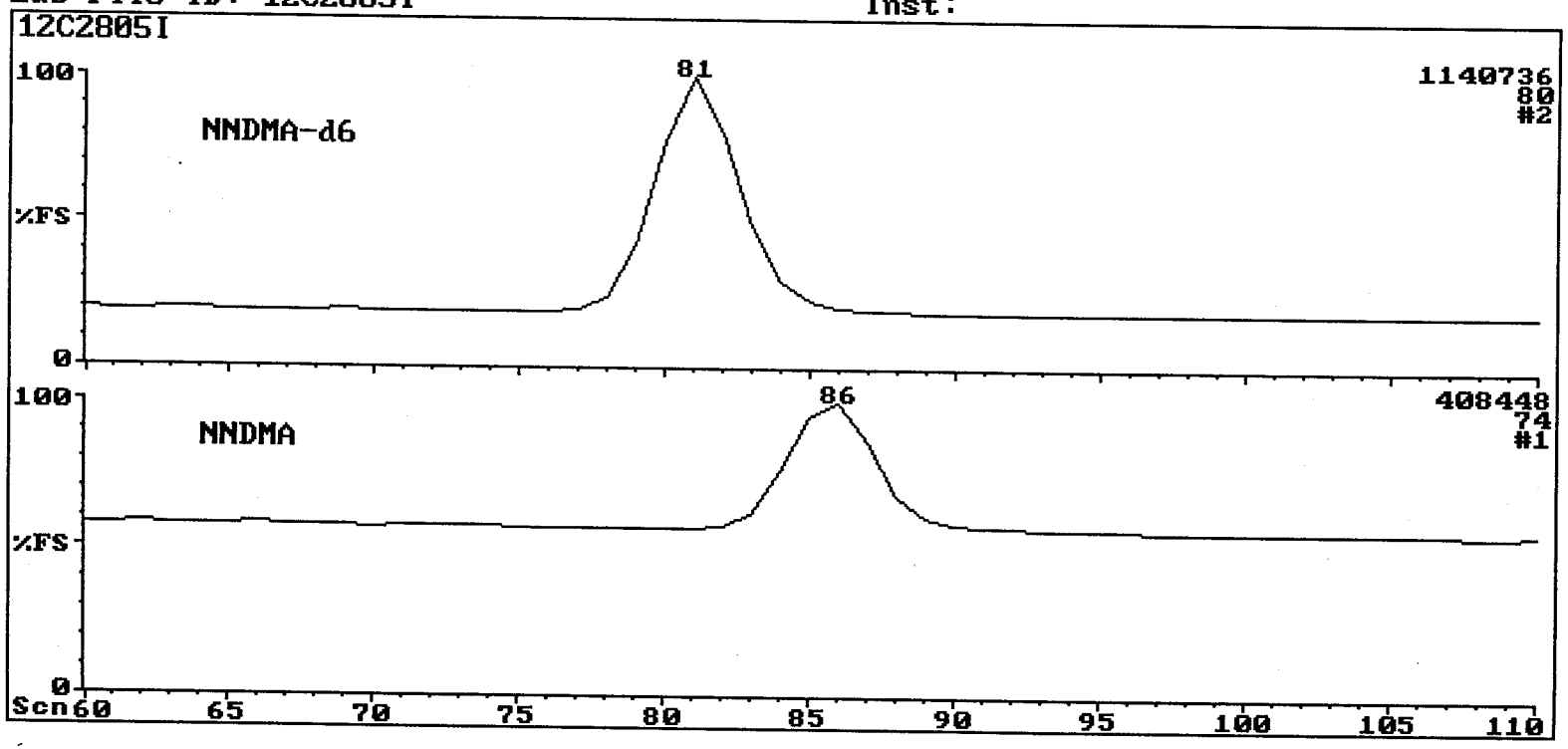
No.	Spectrum MAT	Scan FOR	Scan REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	92	47	100	0	11705333	bv	997	997	190	2,2'-Difluorobiphenyl
2	100	77	98	0	3197821	bv	81	81	80	N-Nitrosodimethylamine-d6
3	59	23	71	0	664128	!!	86	86	74	N-Nitrosodimethylamine
	39	18	64	6	15257	!!	92			
	35	18	64	8	11639	!!	94			

47

Sample: 0.02 PPM STD NSTD0.02 Analyzed: 03/28/06 0846
Lab File ID: 12C2805I Inst:



Sample: 0.02 PPM STD NSTD0.02 Analyzed: 03/28/06 0846
Lab File ID: 12C2805I Inst:



Sample No.: 0.05 PPM STD NSTD0.05 Analyzed: 03/28/06 0927
File ID: 12C2806I Instrument ID: VG12

Interim Report LAB-BASE FIND 03/29/~~06~~ 06 0815

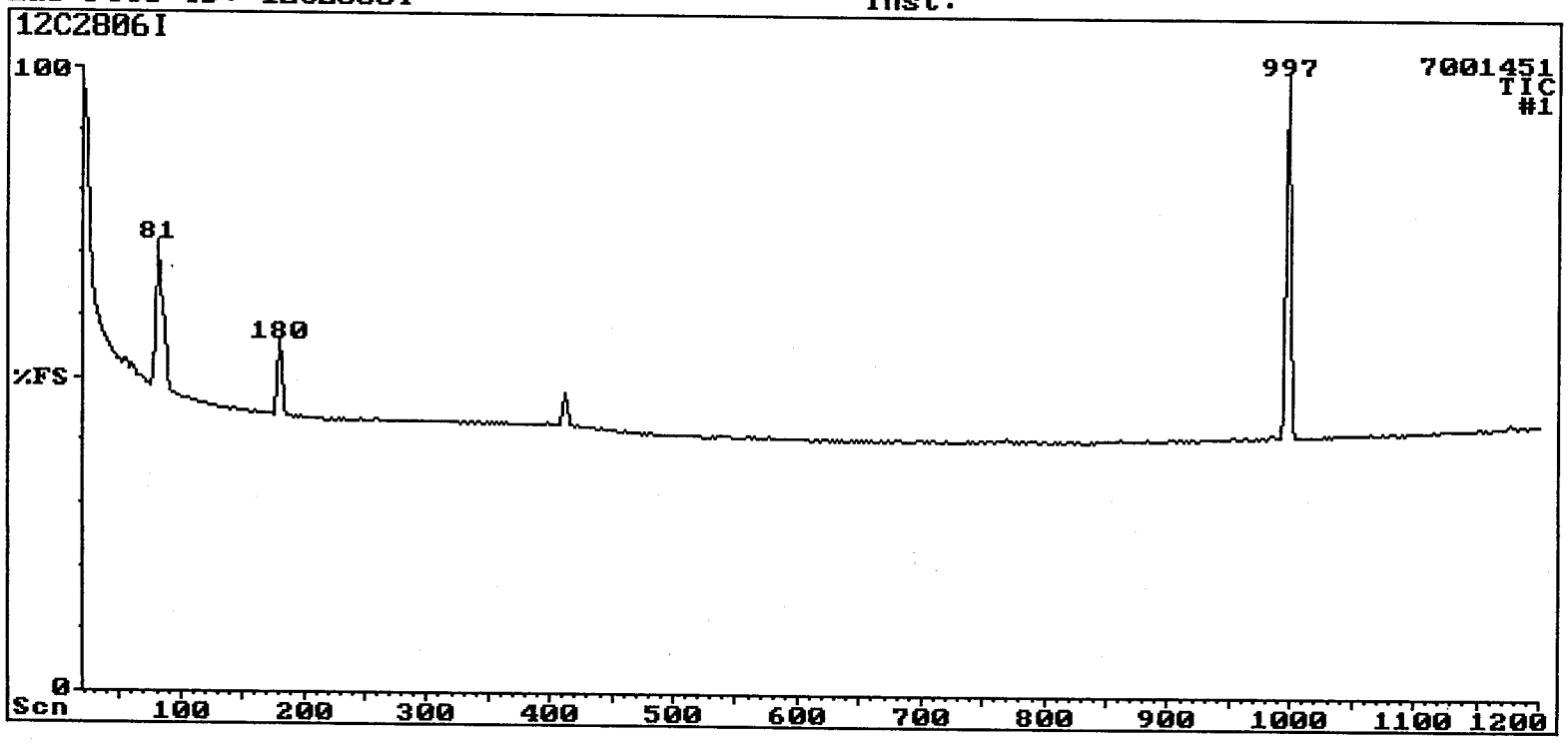
03/29/06

Raw Datafile : 12C2806I Quan DB : 12C2806I
Find DB : NNDMA Scan DB :

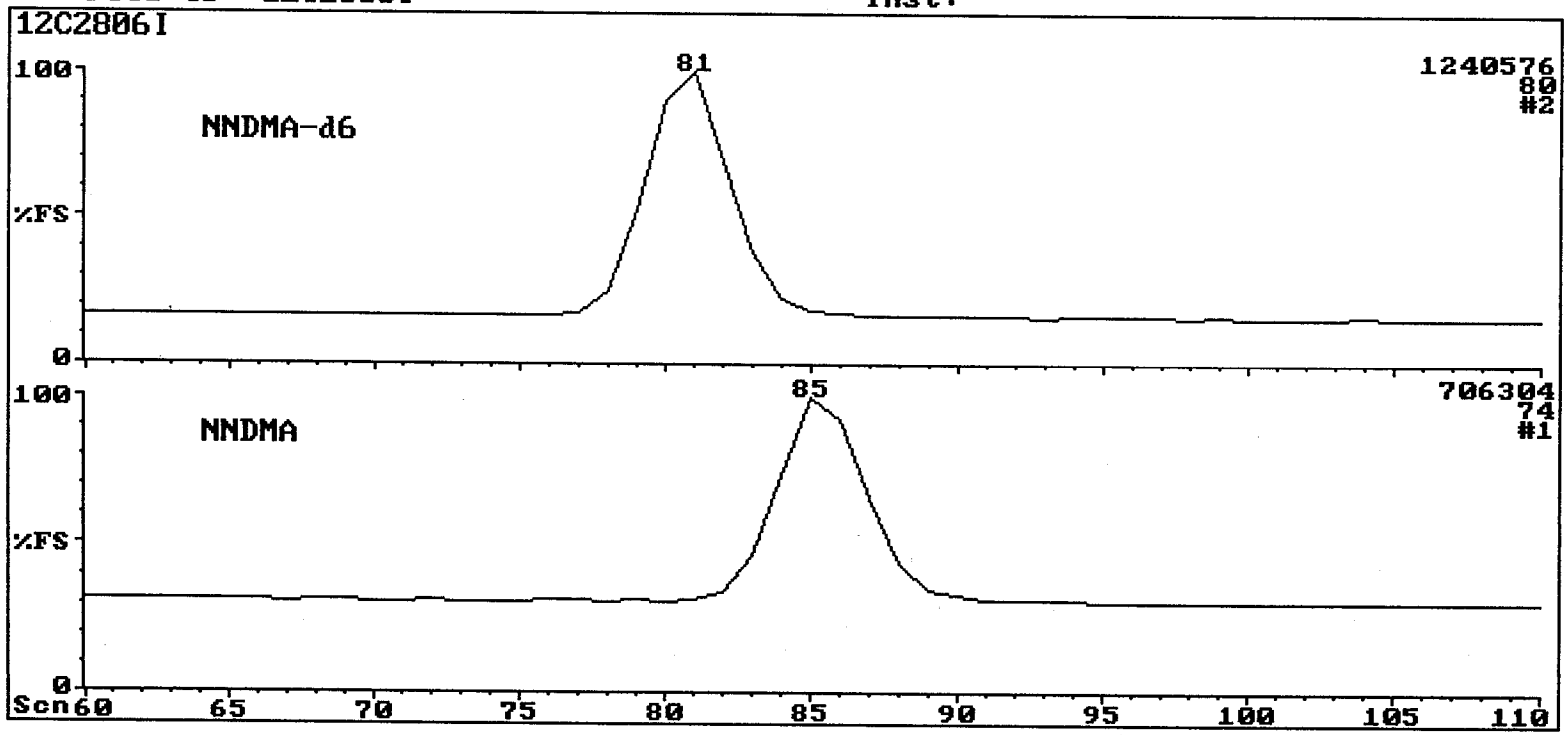
No.	Spectrum MAT	Scan FOR	Scan REV	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	QM	Compound Name
1	94	57	100	-1	13624762	bv	997	998	190	2,2'-Difluorobiphenyl
2	100	78	99	0	3610834	bv	81	81	80	N-Nitrosodimethylamine-d6
3	70	35	81	-1	1807264	vv	85	86	74	N-Nitrosodimethylamine

50

Sample: 0.05 PPM STD NSTD0.05 Analyzed: 03/28/06 0927
Lab File ID: 12C2806I Inst:



Sample: 0.05 PPM STD NSTD0.05 Analyzed: 03/28/06 0927
Lab File ID: 12C2806I Inst:



Sample No.: 0.10 PPM STD NSTD0.10 Analyzed: 03/28/06 1009
File ID: 12C2807I Instrument ID: VG12

Interim Report LAB-BASE FIND 03/29/~~86~~ 06 0816

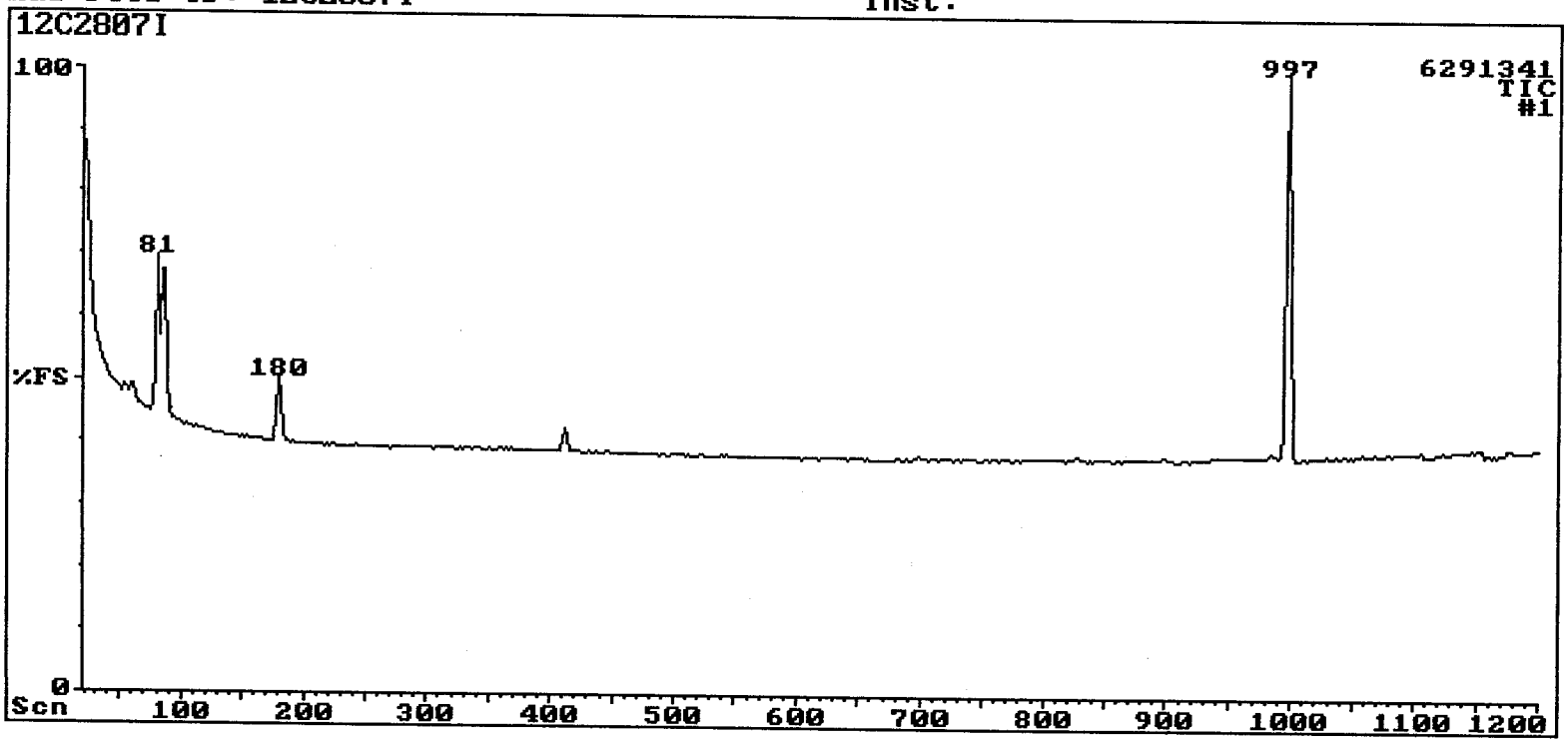
JSS 3/29/06

Raw Datafile : 12C2807I Quan DB : 12C2807I
Find DB : NNDMA Scan DB :

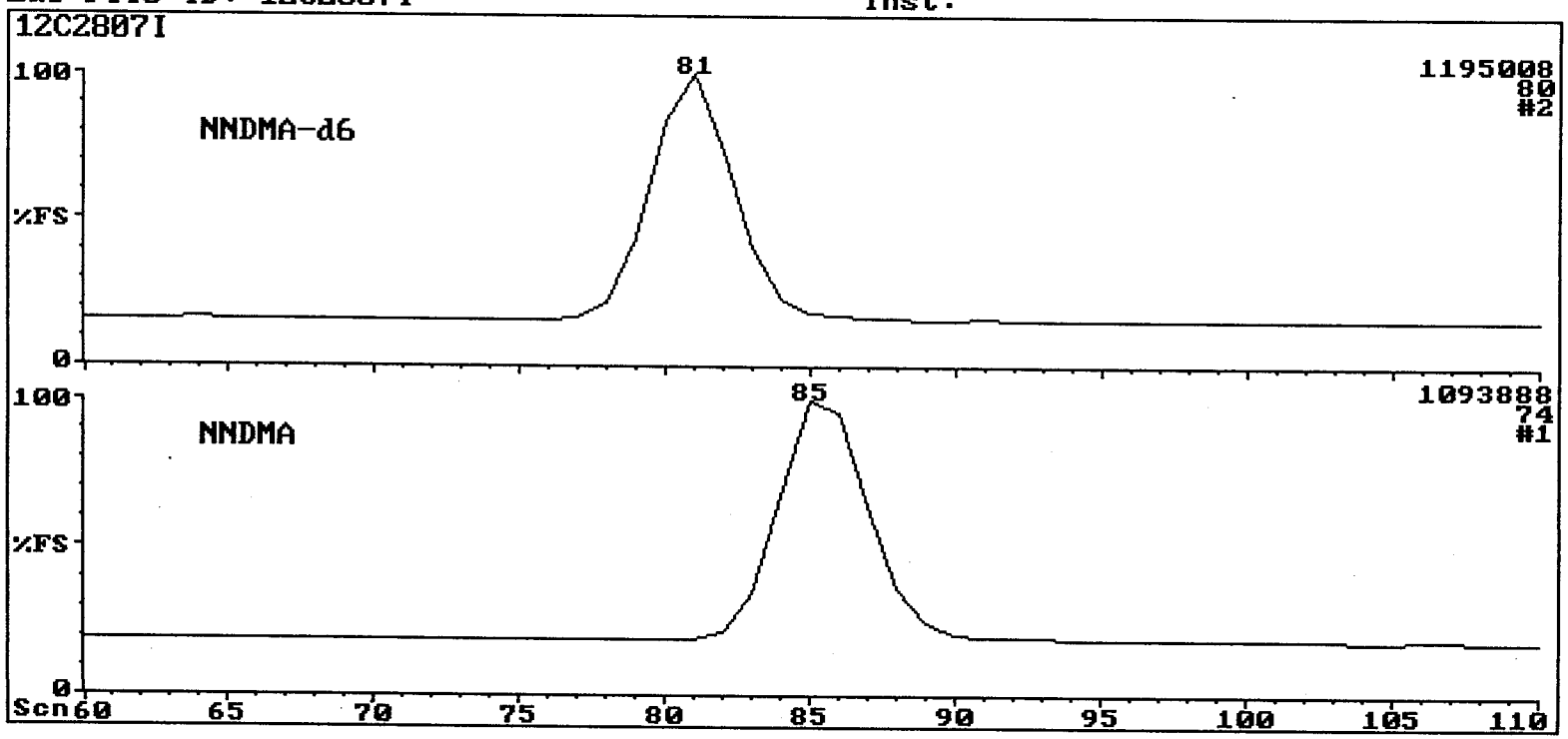
No.	Spectrum MAT	Scan FOR	Scan REV	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	QM	Compound Name
1	97	61	100	-1	12963872	bb	997	998	190	2,2'-Difluorobiphenyl
2	100	78	100	0	3401352	bv	81	81	80	N-Nitrosodimethylamine-d6
3	80	47	86	-1	3302182	bv	85	86	74	N-Nitrosodimethylamine

53

Sample: 0.10 PPM STD NSTD0.10 Analyzed: 03/28/06 1009
Lab File ID: 12C2807I Inst:



Sample: 0.10 PPM STD NSTD0.10 Analyzed: 03/28/06 1009
Lab File ID: 12C2807I Inst:



Sample No.: 0.50 PPM STD NSTD0.50 Analyzed: 03/28/06 1050
File ID: 12C2808I Instrument ID: VG12

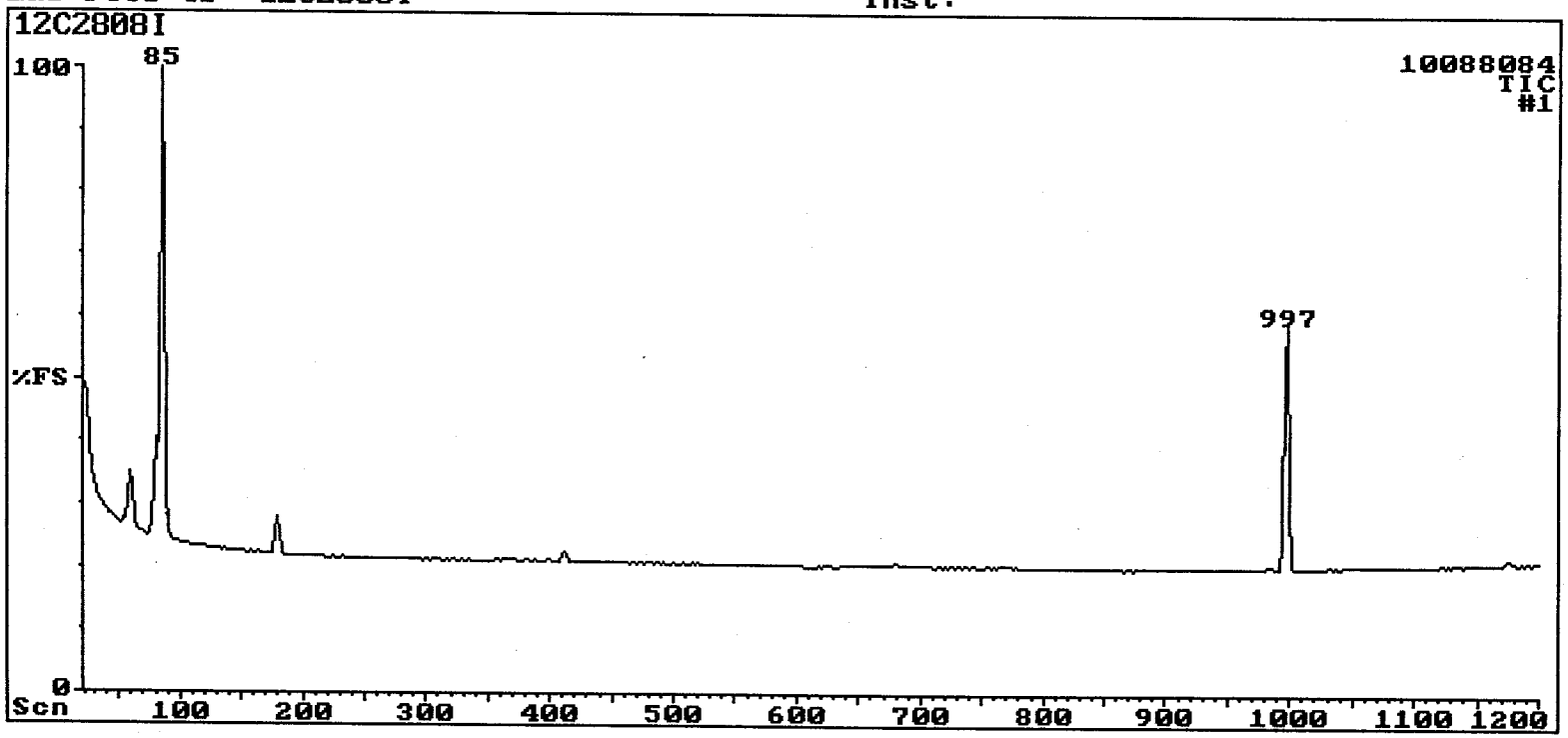
Interim Report LAB-BASE FIND 03/29/~~06~~ 06 0817

Raw Datafile : 12C2808I Quan DB : 12C2808I
Find DB : NNDMA Scan DB :

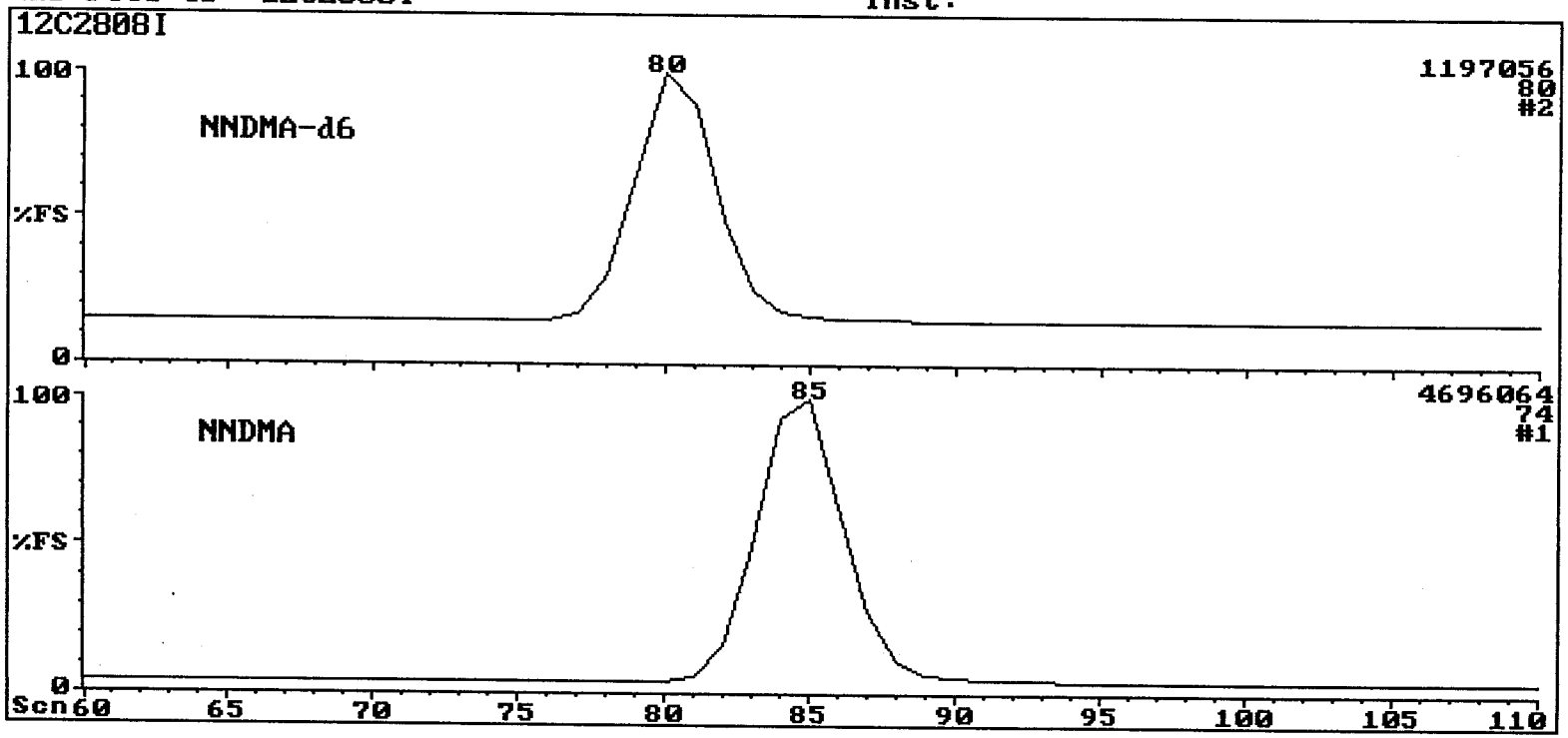
No.	Spectrum MAT	Scan FOR	Scan REV	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	QM	Compound Name
1	99	65	100	-1	13044297	vv	997	998	190	2,2'-Difluorobiphenyl
2	100	76	100	-1	3361353	bv	80	81	80	N-Nitrosodimethylamine-d6
3	100	76	90	-1	16048146	bv	85	86	74	N-Nitrosodimethylamine

56

Sample: 0.50 PPM STD NSTD0.50 Analyzed: 03/28/06 1050
Lab File ID: 12C2808I Inst:



Sample: 0.50 PPM STD NSTD0.50 Analyzed: 03/28/06 1050
Lab File ID: 12C2808I Inst:



Sample No.: 1.00 PPM STD NSTD1.00 Analyzed: 03/28/06 1131
File ID: 12C2809I Instrument ID: VG12

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Interim Report LAB-BASE FIND 03/29/~~85~~ 06 0817

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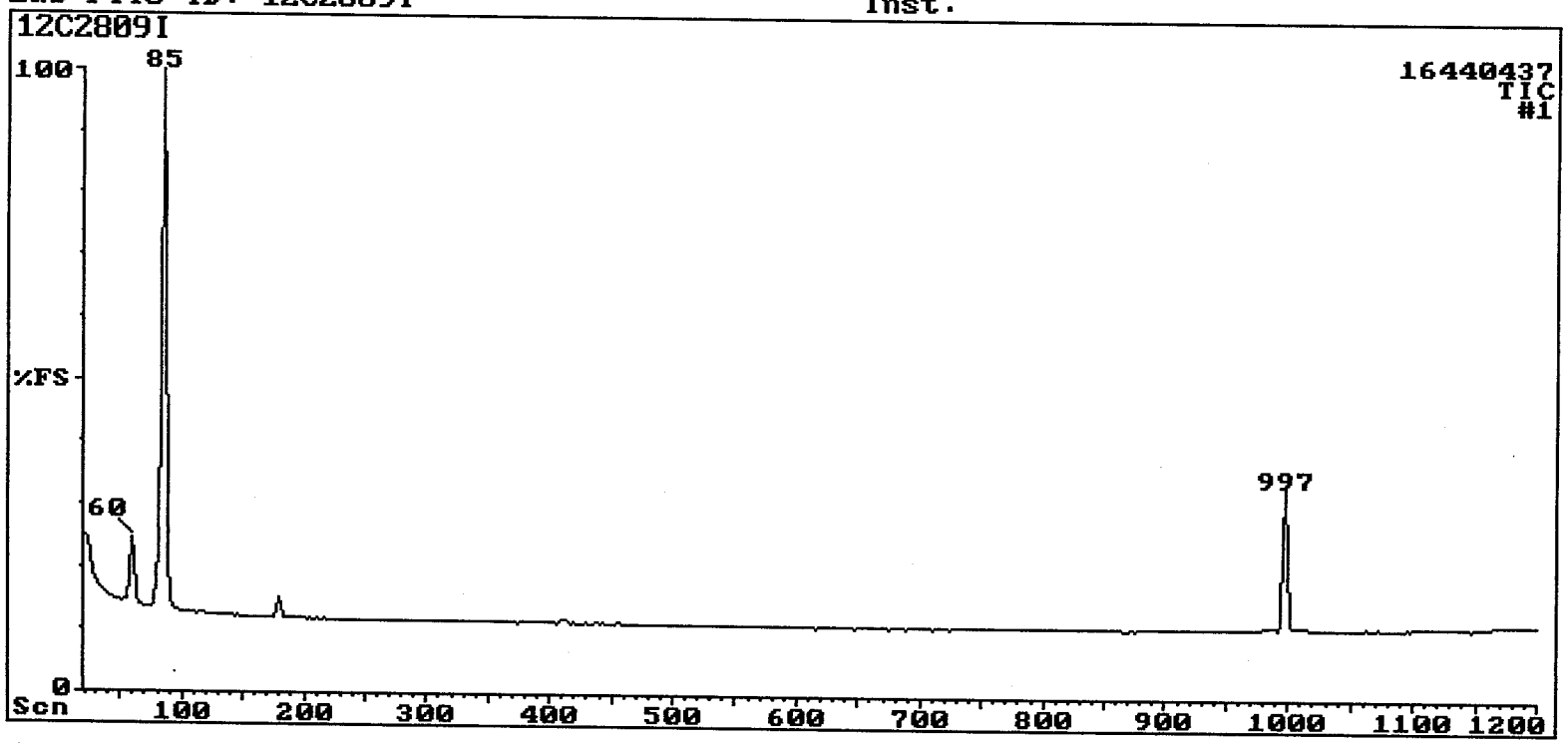
03 3/29/06

Raw Datafile : 12C2809I Quan DB : 12C2809I
Find DB : NNDMA Scan DB :

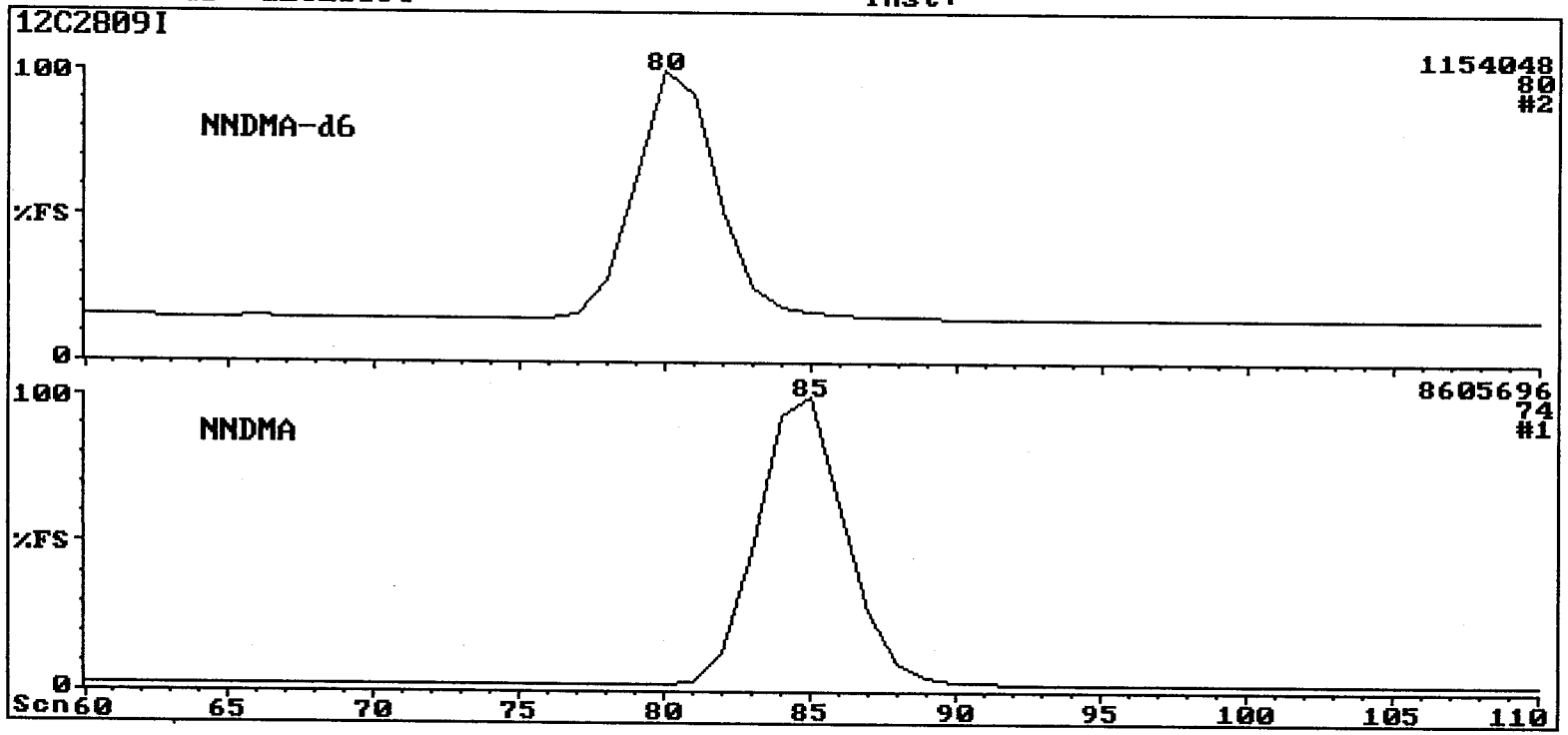
No.	Spectrum MAT	Scan FOR	Scan REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	65	100	0	12775864	bb	997	997	190	2,2'-Difluorobiphenyl
2	100	76	100	-1	3264154	vv	80	81	80	N-Nitrosodimethylamine-d6
3	100	83	91	-1	29804297	bv	85	86	74	N-Nitrosodimethylamine

59

Sample: 1.00 PPM STD NSTD1.00 Analyzed: 03/28/06 1131
Lab File ID: 12C2809I Inst:



Sample: 1.00 PPM STD NSTD1.00 Analyzed: 03/28/06 1131
Lab File ID: 12C2809I Inst:



Sample No.: 5.00 PPM STD NSTD5.00 Analyzed: 03/28/06 1212
File ID: 12C2810I Instrument ID: VG12

Interim Report LAB-BASE FIND 03/29/~~85~~ 86 0818

03/29/06

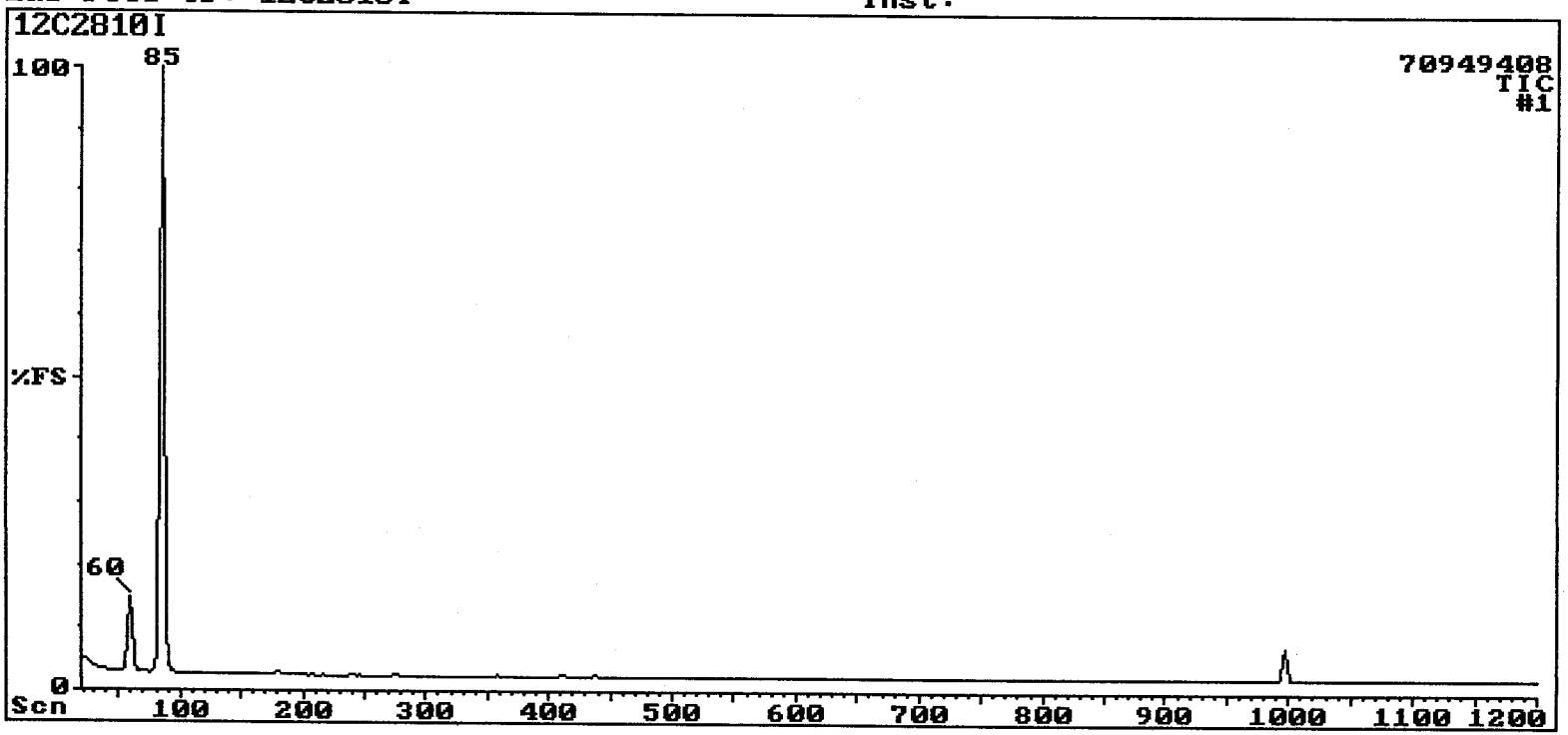
Raw Datafile : 12C2810I
Find DB : NNDMA

Quan DB : 12C2810I
Scan DB :

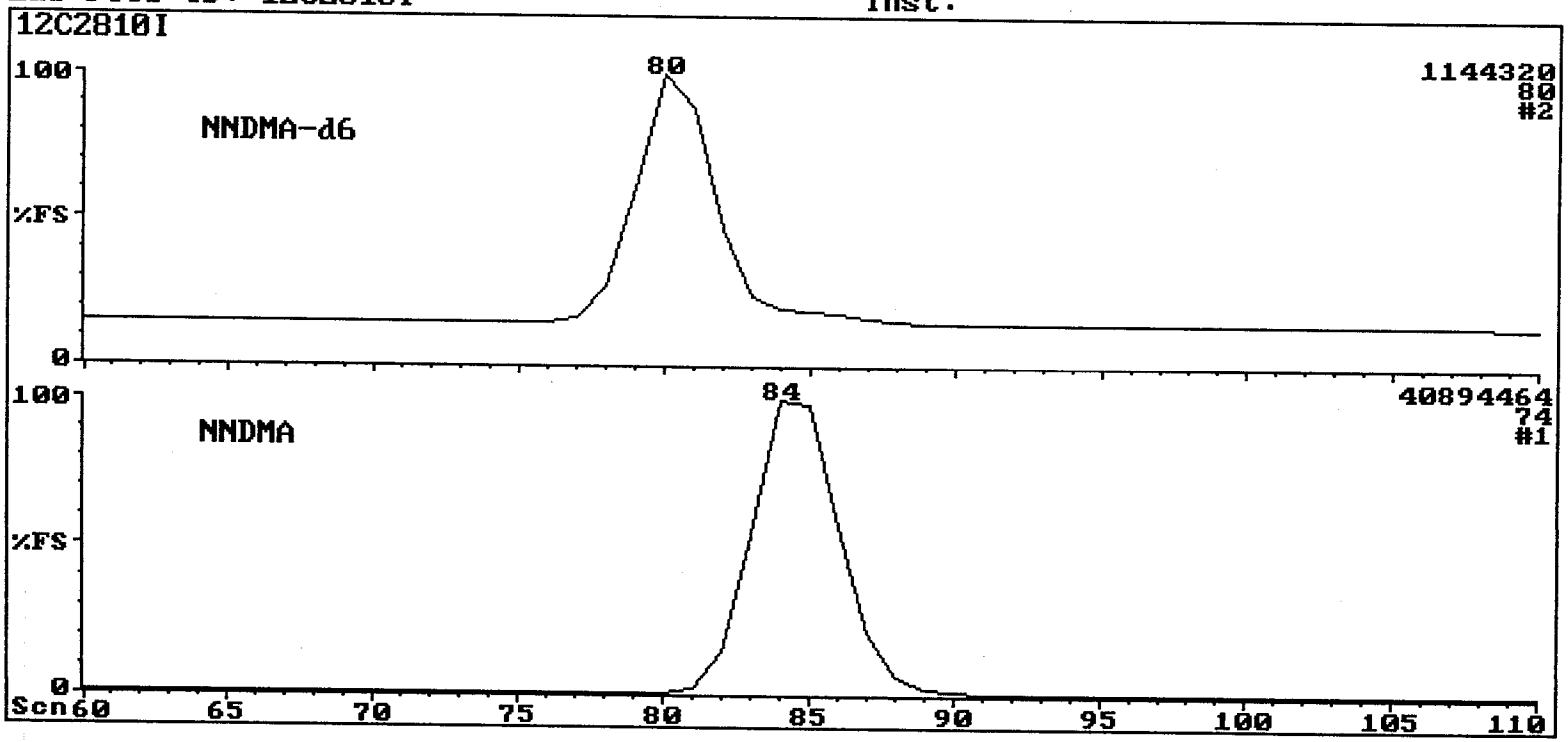
No.	Spectrum MAT	FOR	REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	67	100	0	12367912	bb	997	997	190	2,2'-Difluorobiphenyl
2	100	74	100	-1	3201472	bb	80	81	80	N-Nitrosodimethylamine-d6
3	100	91	93	-2	145586813	b?	84	86	74	N-Nitrosodimethylamine

62

Sample: 5.00 PPM STD NSTD5.00 Analyzed: 03/28/06 1212
Lab File ID: 12C2810I Inst:



Sample: 5.00 PPM STD NSTD5.00 Analyzed: 03/28/06 1212
Lab File ID: 12C2810I Inst:



EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0.0 PPM 2ND SRC DAIL

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: NA
Concentrated Extract Volume: NA
Injection Volume: 1 ul

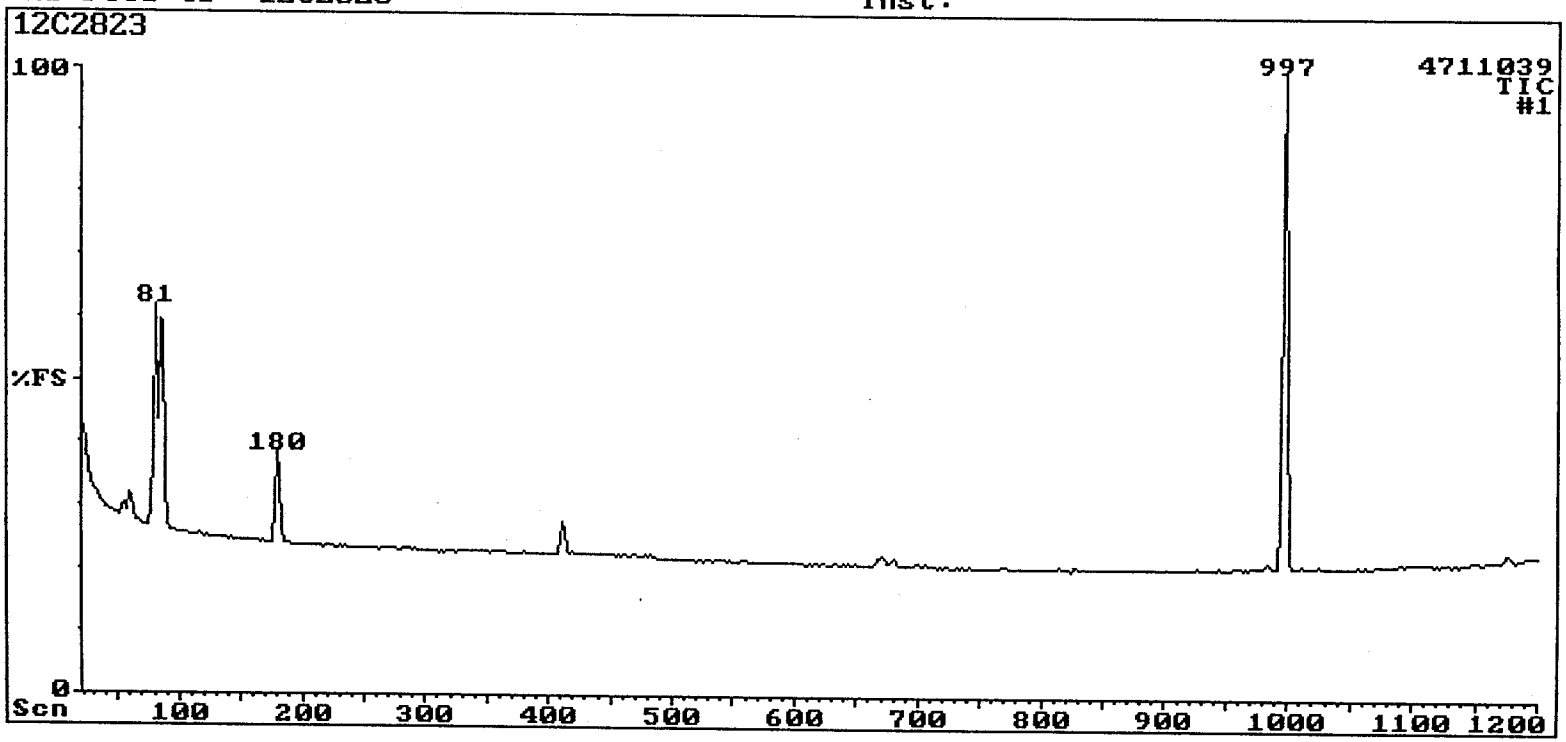
Lab Sample ID: NSTD0.10
Lab File ID: 12C2823
Date Sampled:
Date Extracted:
Date Analyzed: 03/28/06
Time Analyzed: 2107

Compound	Daily Conc ug/mL	Daily Spike ug/mL	Recovery
N-Nitrosodimethylamine	0.0098	0.1000	98 %

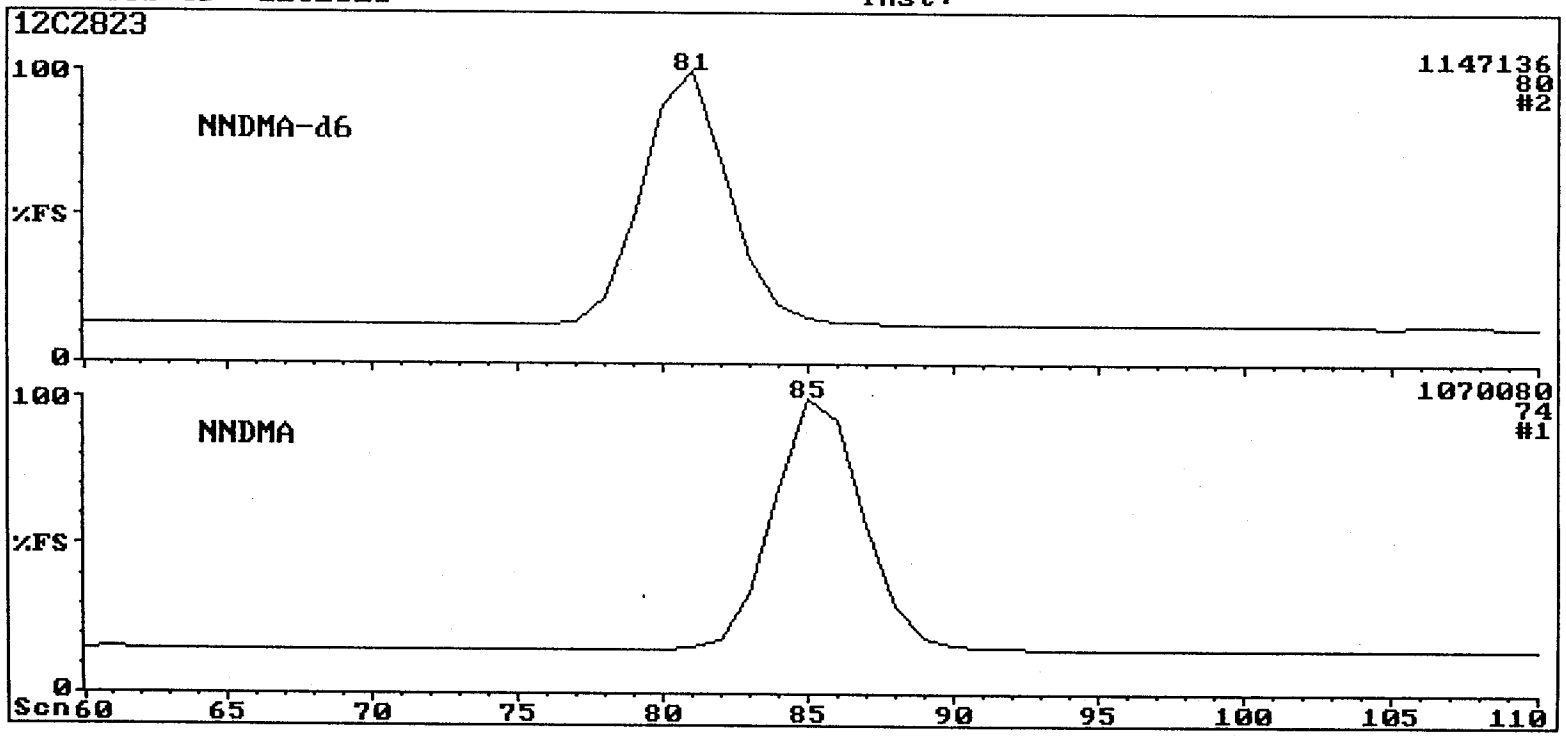
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve
na = Compound has no corresponding labeled reference
PQL = Practical Quantitation Limit

NNDMA MDL = 0.0005 ug/L

Sample: 0.0 PPM 2ND SRC DAILY NSTD0.10 Analyzed: 03/28/06 2107
Lab File ID: 12C2823 Inst:



Sample: 0.0 PPM 2ND SRC DAILY NSTD0.10 Analyzed: 03/28/06 2107
Lab File ID: 12C2823 Inst:



Sample No.: 0.0 PPM 2ND SRC NSTD0.10 Analyzed: 03/28/06 2107
File ID: 12C2823 Instrument ID: VG12

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Interim Report LAB-BASE FIND 03/29/~~86~~ 06 0520

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03/29/06

Raw Datafile : 12C2823 Quan DB : 12C2823
Find DB : NNDMA Scan DB :

No.	Spectrum MAT	Scan FOR	Scan REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	77	100	0	12454422	vb	997	997	190	2,2'-Difluorobiphenyl
2	100	80	99	0	3447316	bv	81	81	80	N-Nitrosodimethylamine-d6
3	92	64	89	-1	3285197	bv	85	86	74	N-Nitrosodimethylamine

68

Daily Calibration Check

Sample: 0.0 PPM 2ND SRC DAIL Lab ID: NSTD0.10 File: 12C2823
Instr: VG12 Acqu Date: 03/28/06 Acqu Time: 2107
Initial Size: 1000.0000 Final Size: 0.1000 ml

Compound	Target Conc ug/ml	% Spike Rec	Limits	% Label Rec	Limits
N-Nitrosodimethylamine	0.09810	98	80 - 120	105	25 - 175

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EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

P&R P54

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000.000 ml
Concentrated Extract Volume: 100 ul
Injection Volume: 1 ul

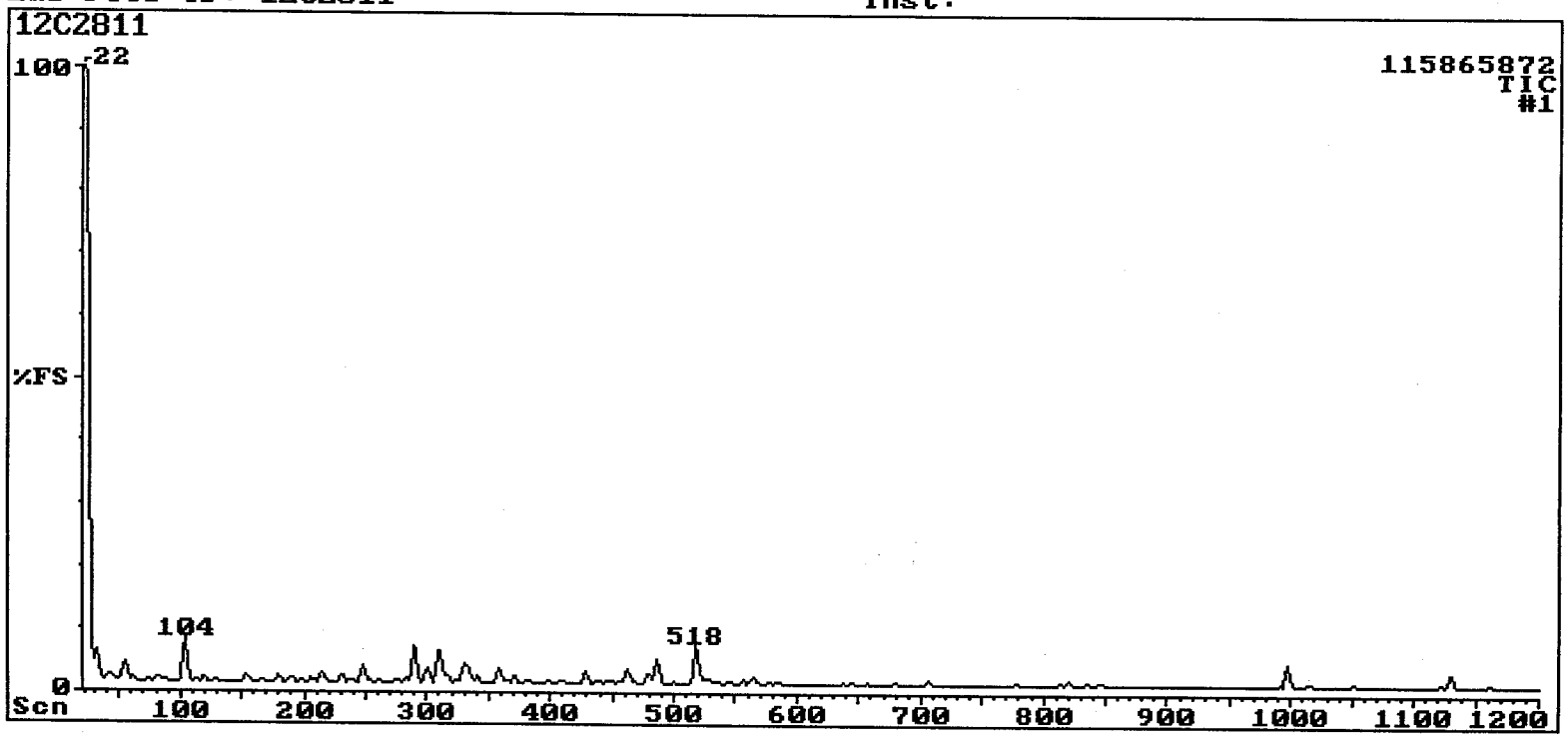
Lab Sample ID: P&R P54
Lab File ID: 12C2811
Date Sampled:
Date Extracted: 03/15/06
Date Analyzed: 03/28/06
Time Analyzed: 1253

Compound	Sample Conc ug/L	Spike Amt. ug/L	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.0021	0.0020	47 %

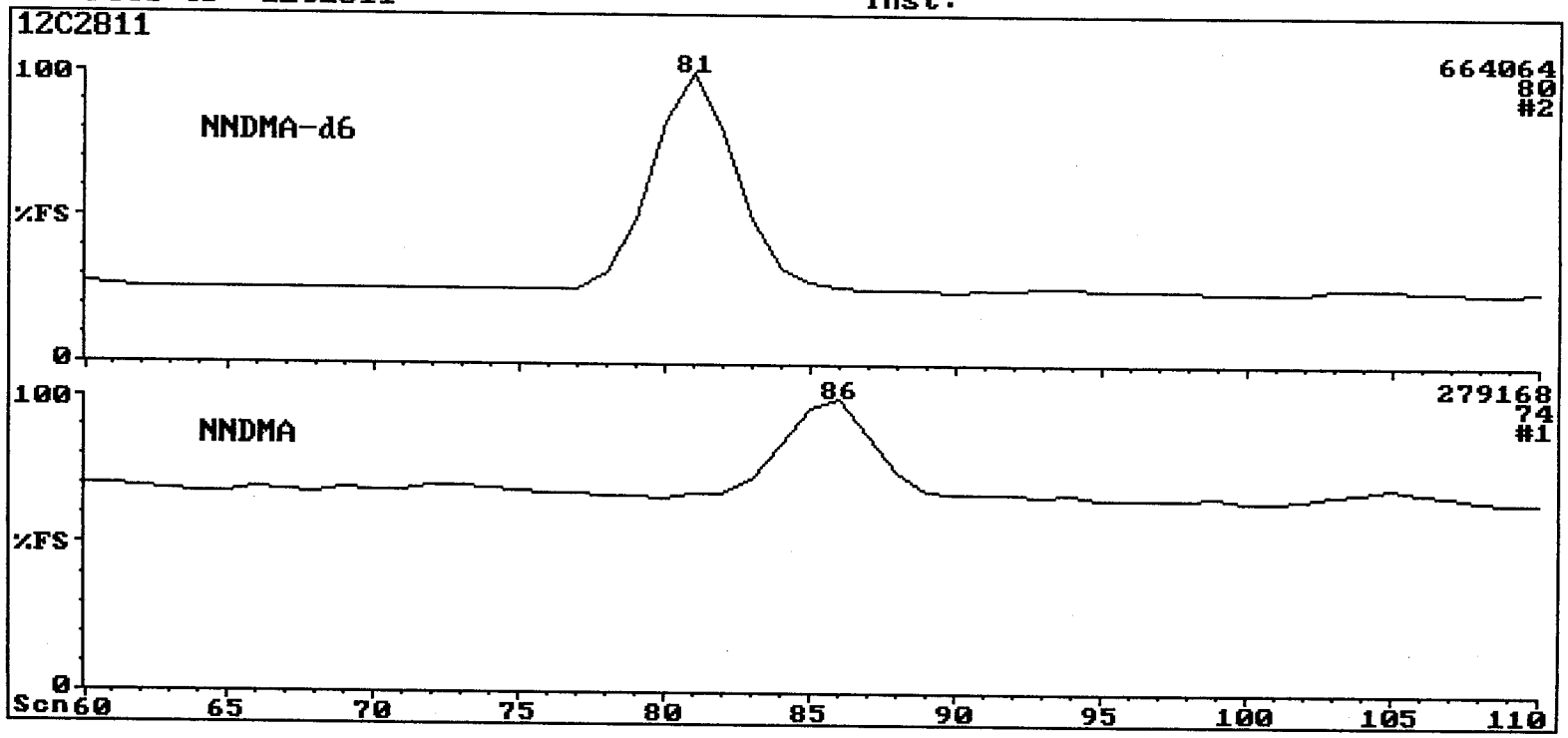
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve
na = Compound has no corresponding labeled reference
PQL = Practical Quantitation Limit

NNDMA MDL = 0.0005 ug/L

Sample: P&R P54 P&R P54 Analyzed: 03/28/06 1253
Lab File ID: 12C2811 Inst:



Sample: P&R P54 P&R P54 Analyzed: 03/28/06 1253
Lab File ID: 12C2811 Inst:



Sample No.: P&R P54 P&R P54 Analyzed: 03/28/06 1253
File ID: 12C2811 Instrument ID: VG12

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Interim Report LAB-BASE FIND 03/28/~~86~~ 06 1314

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05/31/06

Raw Datafile : 12C2811 Quan DB : 12C2811
Find DB : NNDMA Scan DB :

No.	Spectrum MAT	Scan FOR	Scan REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	69	100	0	13694572	vb	997	997	190	2,2'-Difluorobiphenyl
2	100	70	100	0	1690158	bv	81	81	80	N-Nitrosodimethylamine-d6
3	66	35	70	0	369429	!!	86	86	74	N-Nitrosodimethylamine
	42	29	68	8	13059	!!	94			

73

On-going Accuracy (P&R) Check

Sample: P&R P54 Lab ID: P&R P54 File: 12C2811
Instr: VG12 Acqu Date: 03/28/06 Acqu Time: 1253
Initial Size: 1000.0000 Final Size: 0.1000 ml

Compound	Target Conc ug/ml	% Spike Rec	Limits	% Label Rec	Limits
N-Nitrosodimethylamine	0.02111	106	70 - 130	47	25 - 175

74

EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B11621

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000.000 ml
Concentrated Extract Volume: 100 ul
Injection Volume: 1 ul

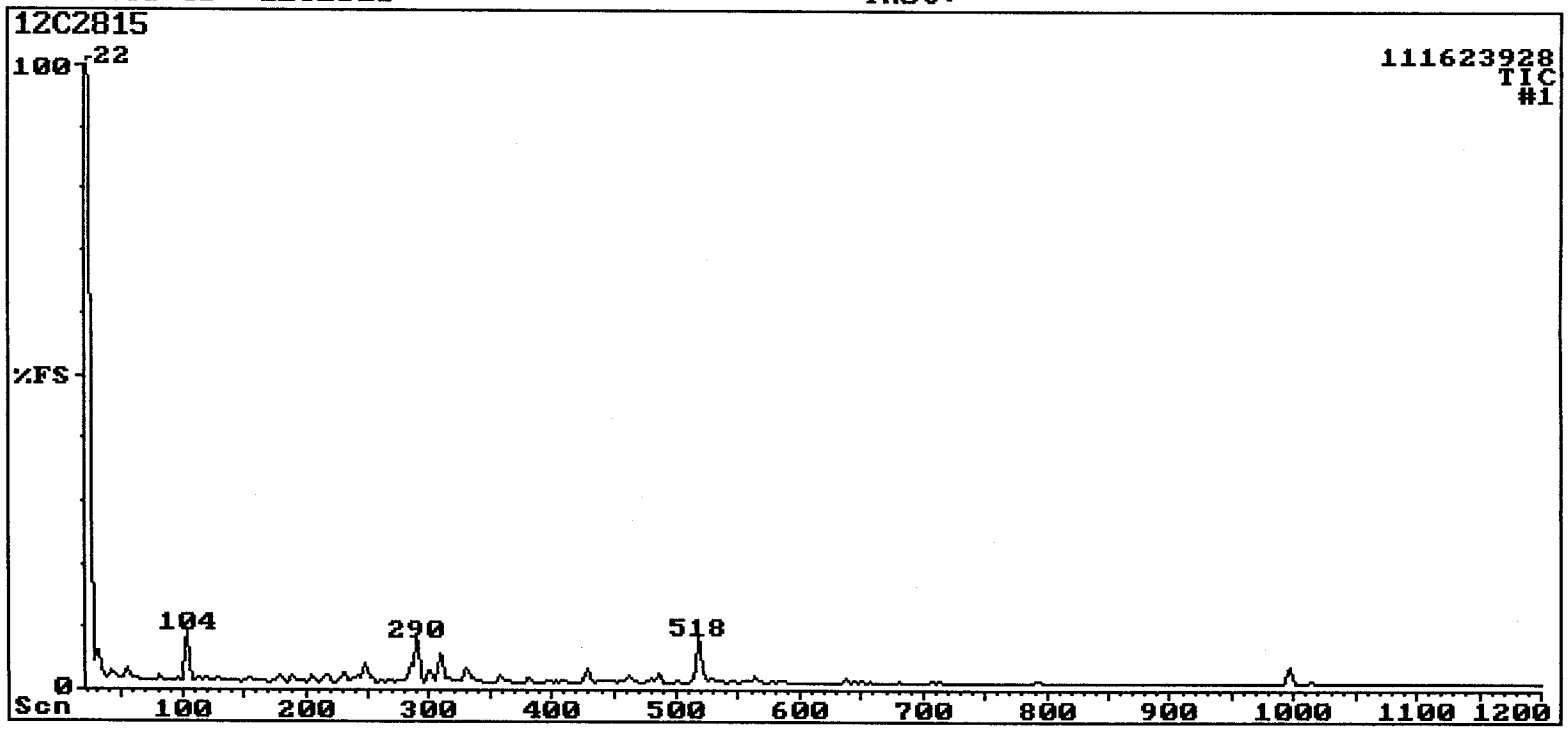
Lab Sample ID: 11621
Lab File ID: 12C2815
Date Sampled:
Date Extracted: 03/15/06
Date Analyzed: 03/28/06
Time Analyzed: 1538

Compound	Sample Conc ug/L		PQL ug/L	Labeled Cpd. Recovery
N-Nitrosodimethylamine		U	0.0020	54 %

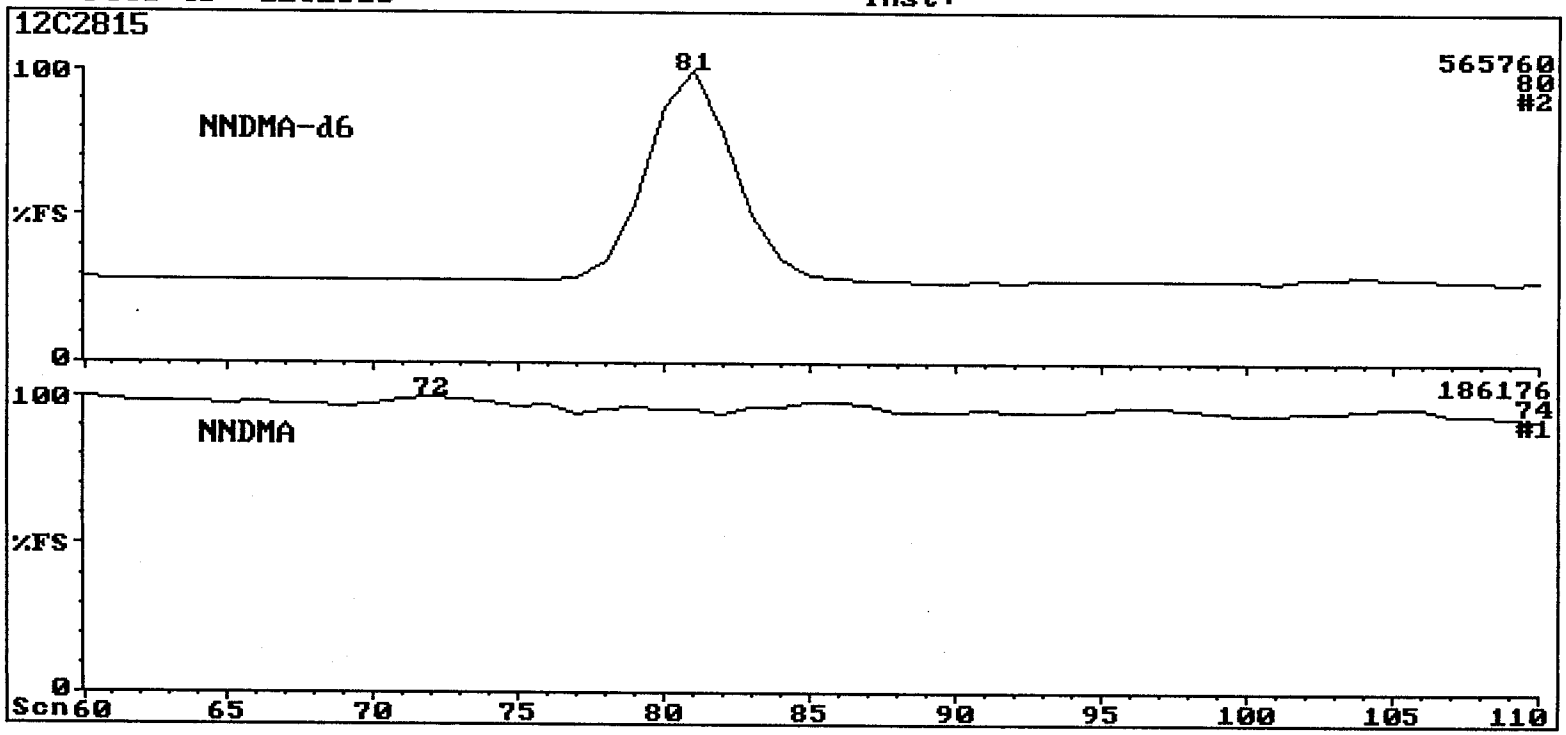
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve
na = Compound has no corresponding labeled reference
PQL = Practical Quantitation Limit

NNDMA MDL = 0.0005 ug/L

Sample: B11621 11621 Analyzed: 03/28/06 1538
Lab File ID: 12C2815 Inst:



Sample: B11621 11621 Analyzed: 03/28/06 1538
Lab File ID: 12C2815 Inst:



Sample No.: B11621 11621 Analyzed: 03/28/06 1538
File ID: 12C2815 Instrument ID: VG12

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Interim Report LAB-BASE FIND 03/29/~~85~~ 06 0514

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J 3/31/06

Raw Datafile : 12C2815 Quan DB : 12C2815
Find DB : NNDMA Scan DB :

No.	Spectrum MAT	FOR	REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	71	100	0	10211472	vb	997	997	190	2,2'-Difluorobiphenyl
2	100	63	99	0	1440640	vv	81	81	80	N-Nitrosodimethylamine-d6
3	61	33	65	0	40640	!!	86	86	74	N-Nitrosodimethylamine
	49	33	64	5	7392	!!	91			
	42	32	65	-7	13056	!!	79			

78

Quantitation Results

Sample: B11621 Lab ID: 11621 File: 12C2815
Instr: VG12 Acqu Date: 03/28/06 Acqu Time: 1538
Initial Size: 1000.0000 Final Size: 0.1000 ml

Compound	Target Conc ug/ml	Sample Conc ug/L	% Label Rec	Limits
N-Nitrosodimethylamine	~~0.00272~~	0 ~~.00027~~ BDL 0331/2a/0a	54	25 - 175

79

EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B11622

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000.000 ml
Concentrated Extract Volume: 100 ul
Injection Volume: 1 ul

Lab Sample ID: 11622
Lab File ID: 12C2816
Date Sampled:
Date Extracted: 03/15/06
Date Analyzed: 03/28/06
Time Analyzed: 1619

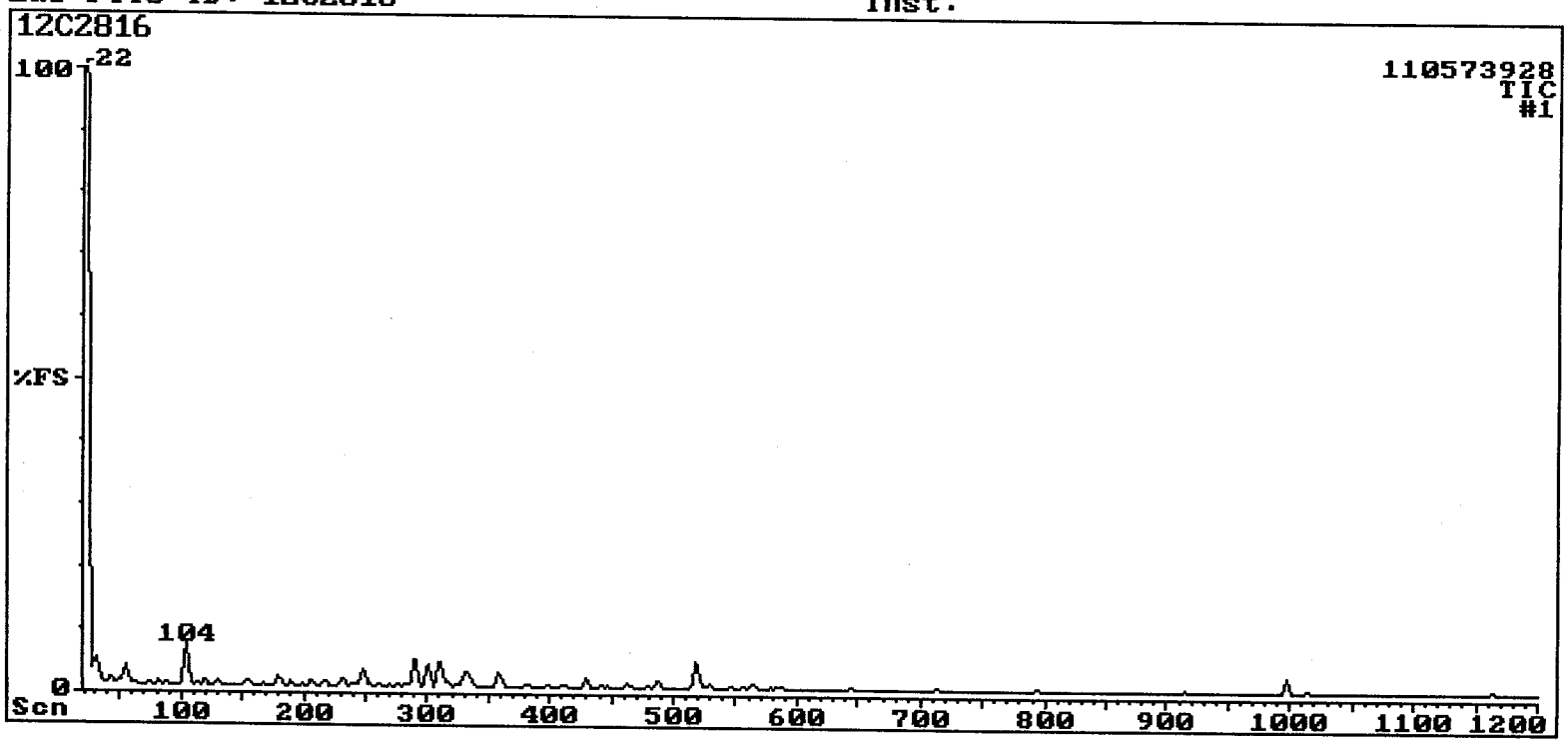
Compound	Sample Conc ug/L		PQL ug/L	Labeled Cpd. Recovery
N-Nitrosodimethylamine		U	0.0020	53 %

U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve
na = Compound has no corresponding labeled reference
PQL = Practical Quantitation Limit

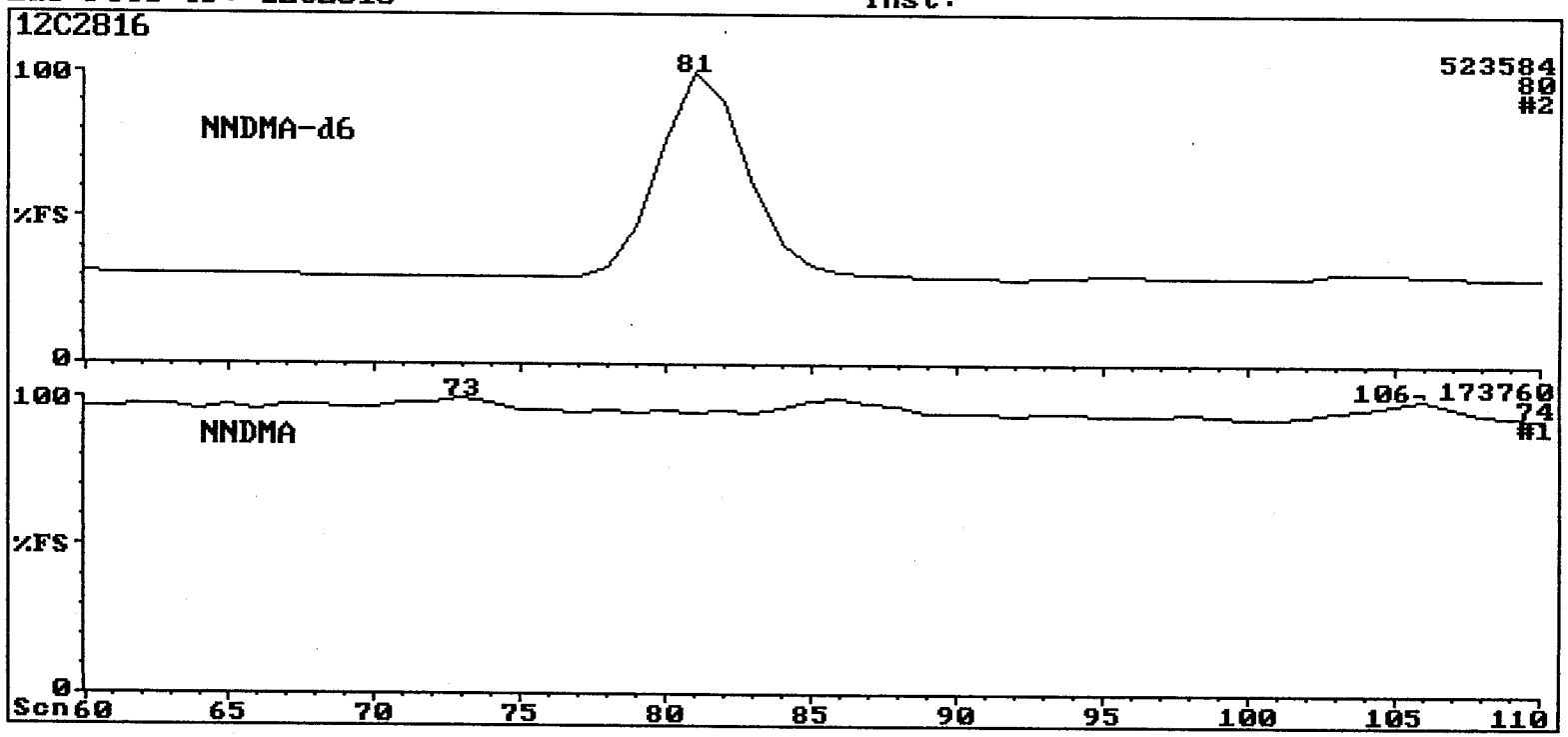
NNDMA MDL = 0.0005 ug/L

80

Sample: B11622 11622 Analyzed: 03/28/06 1619
Lab File ID: 12C2816 Inst:



Sample: B11622 11622 Analyzed: 03/28/06 1619
Lab File ID: 12C2816 Inst:



Sample No.: B11622 11622 Analyzed: 03/28/06 1619
File ID: 12C2816 Instrument ID: VG12

Interim Report LAB-BASE FIND 03/29/~~05~~ 06 0515

J3 3/29/06

Raw Datafile : 12C2816 Quan DB : 12C2816
Find DB : NNDMA Scan DB :

No.	Spectrum MAT	FOR	REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	71	100	0	9572820	bv	997	997	190	2,2'-Difluorobiphenyl
2	100	70	99	0	1325423	vv	81	81	80	N-Nitrosodimethylamine-d6
3	63	33	68	0	31206	!!	86	86	74	N-Nitrosodimethylamine
	45	31	74	7	6976	!!	93			
	35	30	74	12	5760	!!	98			

83

Quantitation Results

Sample: B11622 Lab ID: 11622 File: 12C2816
Instr: VG12 Acqu Date: 03/28/06 Acqu Time: 1619
Initial Size: 1000.0000 Final Size: 0.1000 ml

Compound	Target Conc ug/ml	Sample Conc ug/L	% Label Rec	Limits
N-Nitrosodimethylamine	~~0.00227~~	~~0.00023~~	53	25 - 175

BDL
03/28/06

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Pacific Analytical

GC/MS SEMI-VOLATILES RUN LOG

Instrument: V612 Page: 847

Cal File: 12C28 Date: 3/28/00

Notes: NDMA

Taped	Sample ID	File Name	OK	Description	OP
		12C2801		Warm-up	CB
		02			
		03			
		04			
	NSTD0.02	05		0.02 ug/ml NDMA Std	
	NSTD0.05	06		0.05	
	NSTD0.10	07		0.10	
	NSTD0.50	08		0.50	
	NSTD1.00	09		1.00	
	NSTD5.00	10		5.00	
	PtRP54	11		CPR	
	PtRP54Dup	12			
	PtRP55	13			
	PtRP55Dup	14			
	11621	15		Lab Blank	
	11622	16			
	11623	17			
	11624	18			
	2530-001	19			
	2530-002	20			
	2526-001	21			
	2532-001	22			
	NSTD0.10	23		0.10 ug/mL NDMA 2nd Std Daily	
	2532-002	24			
	2532-003	25			

85

Pacific Analytical

GC/MS SEMI-VOLATILES RUN LOG

Instrument: V612 Page: 848

Cal File: 12C28 Date: 3/28/06

Notes:

NPind

Taped	Sample ID	File Name	OK	Description	OP
	2532-004	12C28 26			OB
	R+RP56	27		OPR	
	R+RP56 Dup	28			
	116 25	29		Lab Blank	
	116 26	30			
	2544-001	31			
	2544-002	32			
	2544-003	33			
	2544-004	34			
	2544-005	35			
	2544-004	36			
	2530-001DL	37		100X	
	2530-002DL	38		100X	

86

Extraction Date: 3/15/06

Matrix: H2O

Client: Curtis & Tompkins

Extraction Method: NNDPhA by UL

NEOUS

Job # 2526+2530

Extraction Solvent: DCM

Lot #: _____

Initials: ML

Other Reagents: ascorbic acid

Lot #: 1mL

	Label:	Date Made:	Concentration:	Volume added:	Date Spiked:	Initials:	Comments:
1. Surrogate Spike	NDMA+1,4 Dioxane	2/28/06	0.02mg/mL	500µL	3/15/06	ML	
2. Matrix Spike	NDMA+1,4 Dioxane	12/12/05	0.02-0.1mg/mL	100µL	3/15/06	ML	
3. Internal Stndrd.	Nitrosamines KS	9/7/05	1mg/mL	10mL	3/23/06	ML	

Sample #:	Sample Size: Extracted:	% Moisture Solids:	Extraction pH	Standards (check) 1	2	3	Initial Extract Volume: A	Aliquot Removed for Prep: B	Volume After Prep: C	Calculated Final Volume: A/B x C =	Comments: (Cleanup Methods used and Information concerning unusual sample and extract behavior)
11621	1000mL	N/A	6-8	X		X	100µL	100µL	100mL	100µL	
11622				X		X					
PERPSY				X	X	X					
1 LP				X	X	X					
2526-001				X		X					
2530-001				X		X					
1-002				X		X					

QA Review: _____

826

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2530 Curtis & Tompkins, 2-NDMA (TAT: 30)

Lab ID	NDMA
2530-001	P
2530-002	P

Lab ID	Cust ID	Sampled	Rec'vd	Login ID
2530-001	DW031306A	03/13/06	03/15/06	01759
2530-002	DW031306B	03/13/06	03/15/06	01759

Lab ID	Description	Comment
2530-001	2 AL x DW	ok
2530-002	2 AL x DW	ok

Login	Loggin by	Shipper	Shipper Code	CofC
01759	Mike Lewandowski	California Overnight	C10129000025167	OK

Pacific Analytical, inc.

SAMPLE LOG-IN SHEET -- *Initial*

JOB #	LOG-IN DATE
2530	3/15/06

Received By (*print name*): Mike Lowandowski

Received By (*signature*): [signature]

CLIENT	Curtis & Tompkins
Received From	—
Custody seals	Present (Absent) / Intact Broken
Custody Seal #'s	N/A
Airbill	(Airbill) Sticker / Present Absent *
Airbill #	C101290000 25167
Date Rec'd	3/15/06
Time Rec'd	1000
Chain of Custody or Traffic Reports	(Present) Absent *
Sample Label	(Present) Absent *
Sample ID #'s on COC	(Listed) Not Listed
Sample Condition	(Intact) Broken / Leaking
Does information on Custody records, reports and sample tags agree?	(Yes) No

# of Coolers: 1

TEMP: 4°C

LAB ID #	SAMPLE #	ANALYSIS	# of Containers	CONTAINER TYPE	Matrix Code (see table below)	CONDITION
2530-001	DW031306A	NOMA	2	AL	DW	ok
1 -002	DW031306B	1	1	1	1	1

* COMMENTS

Matrix Codes: DW = Drinking Water WW = Wastewater S = Soil SL = Sludge O = Other

Container Types: AL = Amber Liter VOA = 40 mL vial SJ = Solid jar BT = Brass Tube OTC = Other Type Container

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 185558

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.04.51
Location: Presidio

Sample ID	Lab ID	Sample ID	Lab ID
937GW107	185558-001	DAEGW103	185558-015
979GW109	185558-002	600GW109	185558-016
979GW110	185558-003	1065MW102	185558-017
979GW113	185558-004	1065PZ1A	185558-018
979GW114	185558-005	231PZ04	185558-019
979GW112	185558-006	231PZ03	185558-020
979GW112RB116	185558-007	937GW07	185558-021
979GW116	185558-008	231PZ01	185558-022
DUP0314061A	185558-009	937GW06	185558-023
TB0314061A	185558-010	937GW42	185558-024
DAEGW03	185558-011	937GW32R	185558-025
DAEGW04	185558-012	231GW15	185558-026
DAEGW05	185558-013	231GW13	185558-027
DAEGW08	185558-014		

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 4/10/06
Operations Manager

Signature: _____ Date: 4/8/06
Project Manager

NELAP # 01107CA

Page 1 of ___

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**185558**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**03/15/06**
Samples Received:	**03/15/06**

This hardcopy data package contains sample and QC results for twenty seven water samples, requested for the above referenced project on 03/15/06. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
High surrogate recovery was observed for trifluorotoluene (FID) in 231PZ01 (lab # 185558-022); the corresponding bromofluorobenzene (FID) surrogate recovery was within limits. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
Low responses were observed for bromomethane in the CCV analyzed 03/17/06 13:30 and the CCV analyzed 03/20/06 08:22; this analyte met minimum response criteria. No other analytical problems were encountered.

Pesticides (EPA 8081A):
High response was observed for methoxychlor in the ICV analyzed 03/03/06 19:07; average ICV drift met method requirements, and this analyte was not detected at or above the RL in the associated samples. No other analytical problems were encountered.

Polychlorinated Biphenyls (PCBs) (EPA 8082):
No analytical problems were encountered.

Polynuclear Aromatics by HPLC (EPA 8310):
No analytical problems were encountered.

Metals (EPA 6020, EPA 7470A, and SM 2340B):
High response was observed for aluminum in the CCV analyzed 03/26/06 03:21; this analyte was not detected at or above the RL in the associated samples. Responses exceeding the instrument's linear range were observed for magnesium and sodium in the MS/MSD of 600GW101 (lab # 185408-002). No other analytical problems were encountered.

Ion Chromatography (EPA 300.0):
No analytical problems were encountered.

Alkalinity (EPA 310.1):
No analytical problems were encountered.

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**185558**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**03/15/06**
Samples Received:	**03/15/06**

Sulfide (EPA 376.2):
No analytical problems were encountered.

Total Dissolved Solids (TDS) (EPA 160.1):
No analytical problems were encountered.

Total Organic Carbon (TOC) (EPA 415.2):
The RSD between exposures of sample 600GW109 (lab # 185558-016) was above method acceptance limits. Insufficient sample remained for reanalysis. No analytical problems were encountered.

Surfactants (MBAS) (EPA 425.1):
No analytical problems were encountered.

Chain of Custody

185558

Treadwell&Rollo

Environmental and Geotechnical Consultants

555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. 0P 2039
Page: ____ of ____

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTS / SOOCH S. / PETE C.
Recorder (signature required):
Sent to Laboratory (Name): CTT

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) /MTBE	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)							COMMENTS / NOTES
-1	937GW107	3/14/06	955			X		6				1	X	X	X	X													
-2	979GW109		1038			X		6				1	X	X	X	X													
-3	979GW110		1115			X		6				1	X	X	X	X													
-4	979GW113		1158			X		6				1	X	X	X	X													
-5	979GW114		1340			X		6				1	X	X	X	X													
-6	979GW112		1420			X		6				1	X	X	X	X													
-7	979GW112R3116		1435			X		6				1	X	X	X	X													
-8	979GW116		1510			X		6				1	X	X	X	X													
-9	DUP 031406 1A		1530			X		6				1	X	X	X	X													
-10	TB031406 1A		—			X		2								X													

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists (23** - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (**13** - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (**9** - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (**8** - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (**7** - As, Cr, Cd, Cu, Pb, Ni and Zn) (**3** - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY:	DATE: 3/15/06	RECEIVED BY:	DATE: 3/15/06
PRINT NAME: FIRM:	TIME: 1230	PRINT NAME: AARON CRENER FIRM: CTT	TIME: 1230
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

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Environmental and Geotechnical Consultants
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185558

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2040
Page: 1 of 1

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): Blaine Tech Brian Prowd
Recorder (signature required): Brian Prowd
Sent to Laboratory (Name): Curtis & Tompkins

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M)[1]	TPHfo (8015M)[1]	VOCs (8260) MTBE	General Chemistry[2]	OCPs (8081)	Metals - Dissolved[3] (23, 22, 13, 9, 8, 7, 3, Other)	Metals - Dis. (14) (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	PCB's (8082)	Metals dissolved (23)	MBAS (425.1)	Total Hardness	Molybdenum (ICP/ms)	Total Sulfide (376.2) Total Organic Carbon (9060)	COMMENTS / NOTES
-11	DAEGW03	3-14	1140			X		6		1		6	X	X	X	X	X	X	X		X	X	X						
-12	DAEGW04		1510			X		3		1		4		X	X	X	X		X		X	X							
-13	DAEGW05		1240			X		6		1		6	X	X	X	X	X	X	X		X	X	X						
-14	DAEGW08		1015			X		6		1		6	X	X	X	X	X	X	X		X	X	X						
-15	DAEGW103		1350			X		6		1		7	X	X	X	X	X	X			X	X	X	X	X	X	X		
-16	EQDGW109		1600			X		6	2	1	1	4	X	X	X	X	X			X	X	X						X	

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY: Brian Prowd	DATE: 3/15/06	RECEIVED BY: Aaron Groner	DATE: 3/15/06
PRINT NAME: Brian Prowd FIRM: Blaine Tech	TIME: 1230	PRINT NAME: AARON GRONER FIRM: CET	TIME: 1230
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

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185558

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. 0P 2041
Page: ___ of ___

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BB John Pelony
Recorder (signature required):
Sent to Laboratory (Name):

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Water	Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M)[1]	TPHfo (8015M)[1]	VOCs (8260) MTBE	General Chemistry[2]	OCPs (8081)	Metals - Dissolved[3] (23, 22, 13, 9, 8, 7, 3, Other) (15)	Metals - Total[3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	TOC	Total Sulfide	Metals Dis (14)				COMMENTS / NOTES
-17	1065MW102	3/14/06	1030			X		6	2	1		3	X	X	X	X	X		X		X		X	X					
-18	1065PZ1A		1135					6	2	1		3	X	X	X	X	X		X		X		X	X					
-19	231PZ04		1350					6	2	1		3	X	X	X	X	X				X		X	X					
-20	231PZ03		1435					6	2	1		3	X	X	X	X	X				X		X	X	X				
-21	937GW07		1555					6				1	X	X	X	X													
N/A	~~TB0314063A~~		—					2																					on hold
-22	231PZ01		1630					6	2	1		3	X	X	X	X	X				X		X	X	X				

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists (23** - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (**22** - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (**13** - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (**9** - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (**8** - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (**7** - As, Cr, Cd, Cu, Pb, Ni and Zn) (**3** - Al, Fe and Cr) (**Other** -)

RELINQUISHED BY:	DATE: 3/15/06	RECEIVED BY:	DATE: 3/15/06
PRINT NAME: FIRM:	TIME: 1230	PRINT NAME: AARON CRENIER FIRM: CET	TIME: 1230
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

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185558

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2042
Page: 1 of 1

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTS/D. Freymyl
Recorder (signature required): D. [illegible]
Sent to Laboratory (Name): CAT

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) / Nitrate	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other) (14)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	TOC	Total Sulfide					COMMENTS / NOTES
-23	9376GW06	3/14/06	1315			X		6				1	X	X	X	X													
-24	9376GW02		1105			X		6				1	X	X	X	X													
-25	9376GW32		955			X		6				1	X	X	X	X													
-26	231GW15		1650			X		6	2	1		3	X	X	X	X	X		X		X		X	X					
-27	231GW13		1600			X		6	2	1		3	X	X	X	X	X		X		X		X	X					
∞																													

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY: D. [illegible]	DATE: 3/15/06	RECEIVED BY: [illegible]	DATE: 3/15/06
PRINT NAME: FIRM:	TIME: 1230	PRINT NAME: AARON GRENIER FIRM: CAT	TIME: 1230
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

White Copy - Original **Yellow Copy** - Laboratory **Pink Copy** - Field

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 185558 Date Received: 3-15-06 Number of Coolers: 5
Client: Treadwell & Rollo Project: 2893.04.51

A. Preliminary Examination Phase
Date Opened: 3-15-06 By (print): Tray Windsor (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES (NO)
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... (YES) NO
   How many and where? 1 per over cooler lip Seal date: 3/15/06 Seal name: Illegible
3. Were custody seals unbroken and intact at the date and time of arrival? ..... (YES) NO
4. Were custody papers dry and intact when received? ..... (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO
6. Did you sign the custody papers in the appropriate place? ..... (YES) NO
7. Was project identifiable from custody papers? ..... (YES) NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... (YES) NO
   Type of ice: wet Temperature: 3.2 4.7 2.8 3.4 2.0

B. Login Phase
Date Logged In: 3-15-06 By (print): Tray Windsor (sign) [signature]

1. Describe type of packing in cooler: In ziploc type bags
2. Did all bottles arrive unbroken? ..... (YES) NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... (YES) NO
4. Did bottle labels agree with custody papers? ..... (YES) NO
5. Were appropriate containers used for the tests indicated? ..... (YES) NO
6. Were correct preservatives added to samples? ..... (YES) NO
7. Was sufficient amount of sample sent for tests indicated? ..... (YES) NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... (YES) NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

TOTAL VOLATILE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/14/06
Units:	ug/L	Received:	03/15/06

Field ID:	937GW107	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	111320
Lab ID:	185558-001	Analyzed:	03/15/06

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	108	65-135
Bromofluorobenzene (FID)	109	65-135

Field ID:	979GW109	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	111320
Lab ID:	185558-002	Analyzed:	03/15/06

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	109	65-135
Bromofluorobenzene (FID)	113	65-135

Field ID:	979GW110	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	111320
Lab ID:	185558-003	Analyzed:	03/15/06

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	109	65-135
Bromofluorobenzene (FID)	109	65-135

Field ID:	979GW113	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	111320
Lab ID:	185558-004	Analyzed:	03/16/06

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	107	65-135
Bromofluorobenzene (FID)	110	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/14/06
Units:	ug/L	Received:	03/15/06

Field ID:	979GW114	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	111320
Lab ID:	185558-005	Analyzed:	03/16/06

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	107	65-135
Bromofluorobenzene (FID)	108	65-135

Field ID:	979GW112	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	111320
Lab ID:	185558-006	Analyzed:	03/16/06

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	105	65-135
Bromofluorobenzene (FID)	106	65-135

Field ID:	979GW112RB116	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	111320
Lab ID:	185558-007	Analyzed:	03/16/06

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	106	65-135
Bromofluorobenzene (FID)	108	65-135

Field ID:	979GW116	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	111320
Lab ID:	185558-008	Analyzed:	03/16/06

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	109	65-135
Bromofluorobenzene (FID)	108	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/14/06
Units:	ug/L	Received:	03/15/06

Field ID:	DUP0314061A	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	111320
Lab ID:	185558-009	Analyzed:	03/16/06

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	109	65-135
Bromofluorobenzene (FID)	111	65-135

Field ID:	DAEGW03	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	111320
Lab ID:	185558-011	Analyzed:	03/16/06

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	65-135
Bromofluorobenzene (FID)	107	65-135

Field ID:	DAEGW05	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	111336
Lab ID:	185558-013	Analyzed:	03/16/06

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	109	65-135
Bromofluorobenzene (FID)	109	65-135

Field ID:	DAEGW08	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	111336
Lab ID:	185558-014	Analyzed:	03/15/06

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	109	65-135
Bromofluorobenzene (FID)	112	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/14/06
Units:	ug/L	Received:	03/15/06

Field ID:	DAEGW103	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	111336
Lab ID:	185558-015	Analyzed:	03/15/06

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	97	65-135
Bromofluorobenzene (FID)	105	65-135

Field ID:	600GW109	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	111336
Lab ID:	185558-016	Analyzed:	03/15/06

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	65-135
Bromofluorobenzene (FID)	106	65-135

Field ID:	1065MW102	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	111336
Lab ID:	185558-017	Analyzed:	03/15/06

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	100	65-135
Bromofluorobenzene (FID)	107	65-135

Field ID:	1065PZ1A	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	111336
Lab ID:	185558-018	Analyzed:	03/15/06

Analyte	Result	RL
Gasoline C7-C12	86	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	96	65-135
Bromofluorobenzene (FID)	105	65-135

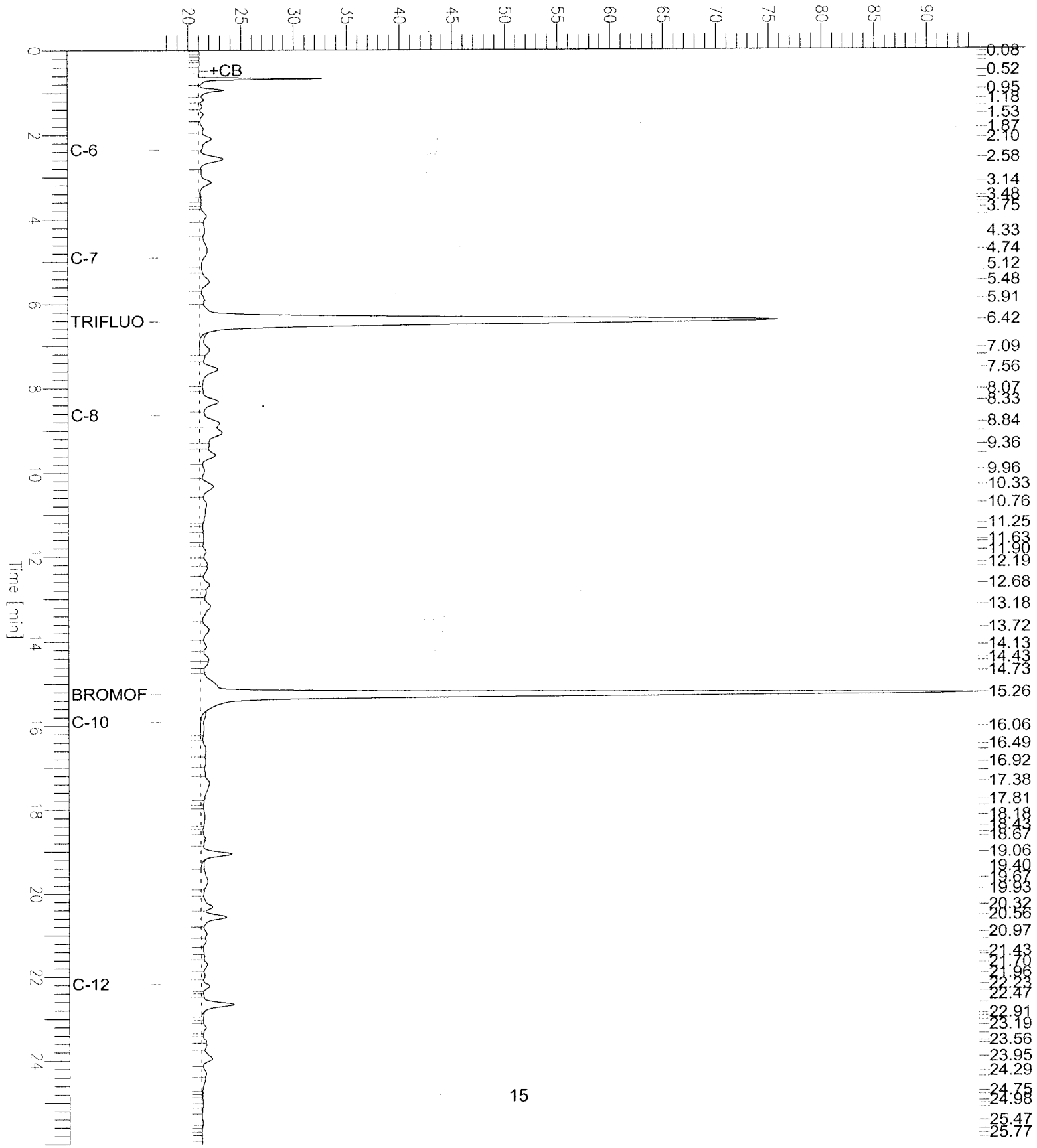
*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

GC07 TVH 'A' Data File RTX 502

Sample Name : 185558-018,111330,tvh (36)
FileName : G:\GC07\DATA\074A018.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.00 min
Scale Factor: 1.0 Plot Offset: 17 mV

Sample #: a1.3
Date : 3/15/06 11:48 PM
Time of Injection: 3/15/06 11:22 PM
Low Point : 17.30 mV High Point : 94.73 mV
Plot Scale: 77.4 mV

1065PZ1A



Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/14/06
Units:	ug/L	Received:	03/15/06

Field ID:	231PZ04	Diln Fac:	10.00
Type:	SAMPLE	Batch#:	111336
Lab ID:	185558-019	Analyzed:	03/15/06

Analyte	Result	RL
Gasoline C7-C12	5,300	500

Surrogate	%REC	Limits
Trifluorotoluene (FID)	133	65-135
Bromofluorobenzene (FID)	110	65-135

Field ID:	231PZ03	Diln Fac:	10.00
Type:	SAMPLE	Batch#:	111336
Lab ID:	185558-020	Analyzed:	03/15/06

Analyte	Result	RL
Gasoline C7-C12	4,000	500

Surrogate	%REC	Limits
Trifluorotoluene (FID)	116	65-135
Bromofluorobenzene (FID)	110	65-135

Field ID:	937GW07	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	111336
Lab ID:	185558-021	Analyzed:	03/15/06

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	100	65-135
Bromofluorobenzene (FID)	107	65-135

Field ID:	231PZ01	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	111336
Lab ID:	185558-022	Analyzed:	03/16/06

Analyte	Result	RL
Gasoline C7-C12	9,300	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	164 *	65-135
Bromofluorobenzene (FID)	116	65-135

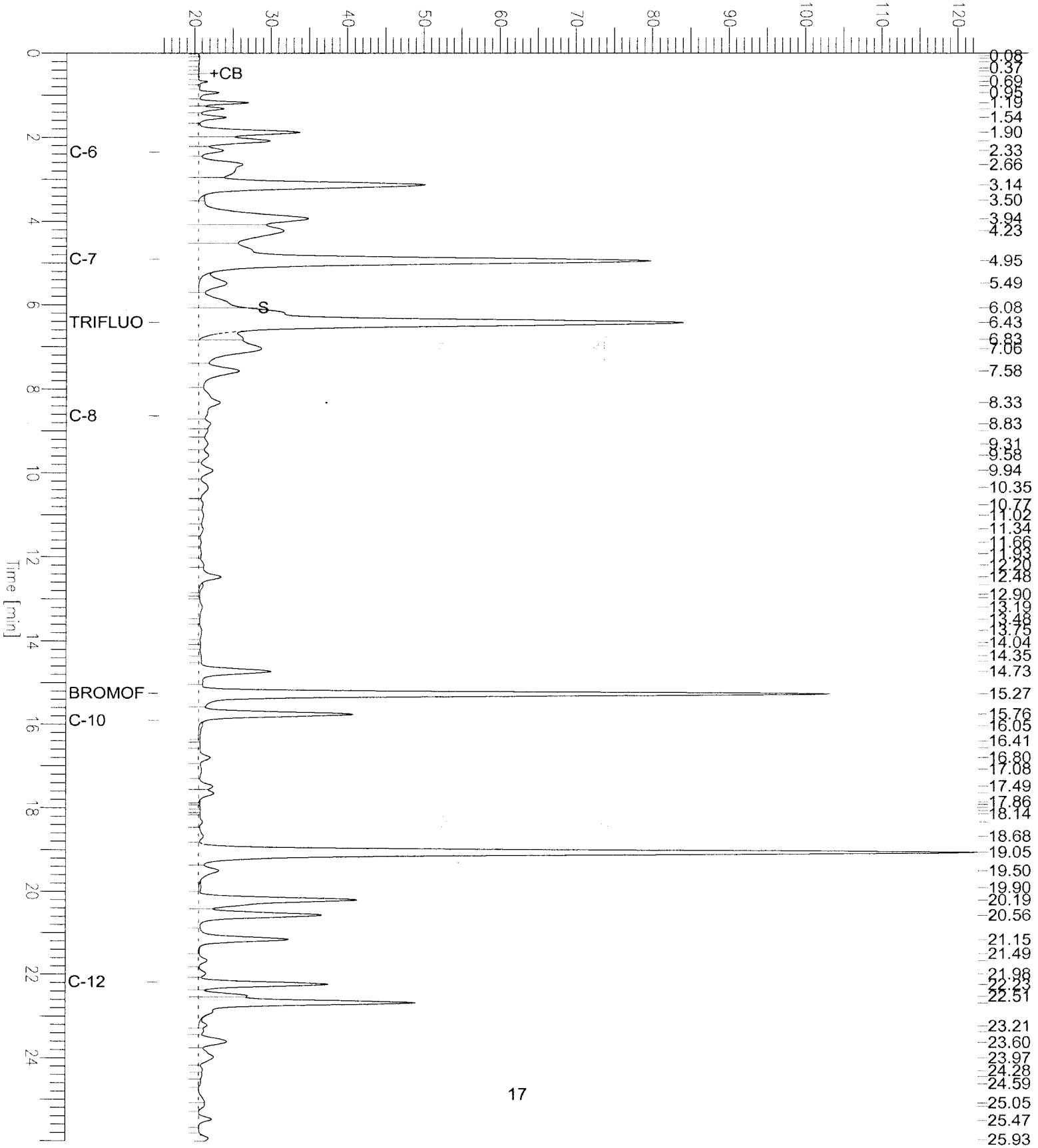
*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

GC07 TVH 'A' Data File RTX 502

Sample Name : 185558-019,111~~320~~ 36
FileName : G:\GC07\DATA\074A010.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.00 min
Scale Factor: 1.0 Plot Offset: 15 mV

Sample #: a1.6 Page 1 of 1
Date : 3/16/06 02:15 PM
Time of Injection: 3/15/06 06:32 PM
Low Point : 15.37 mV High Point : 122.77 mV
Plot Scale: 107.4 mV

231PZ04

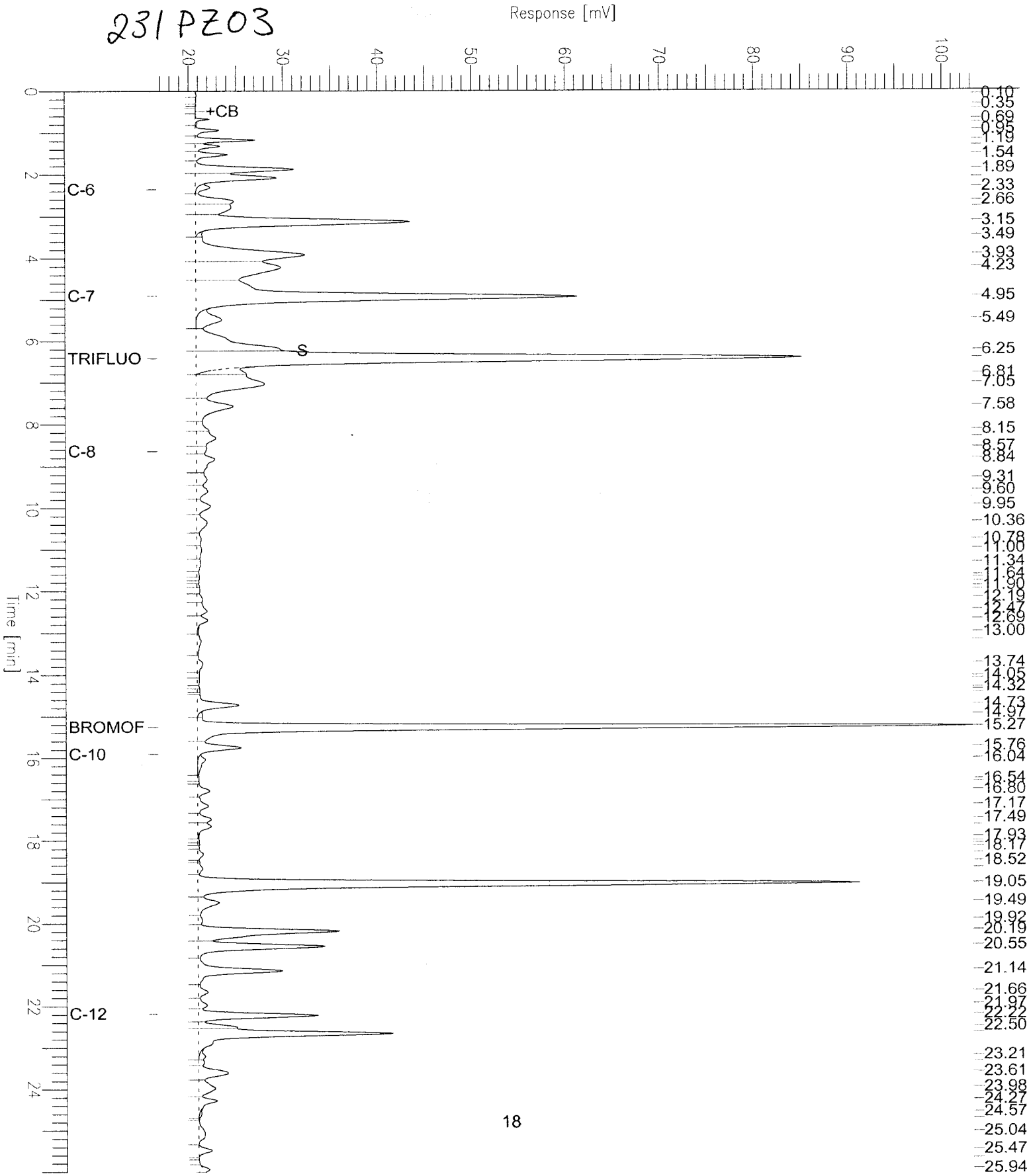


GC07 TVH 'A' Data File RTX 502

Sample Name : 185558-020,111~~320~~36,tvh mm 3/20/06
FileName : G:\GC07\DATA\074A013.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.00 min
Scale Factor: 1.0 Plot Offset: 17 mV

Sample #: a1.3 Page 1 of 1
Date : 3/20/06 04:43 PM
Time of Injection: 3/15/06 08:21 PM
Low Point : 16.61 mV High Point : 103.18 mV
Plot Scale: 86.6 mV

231 PZ03

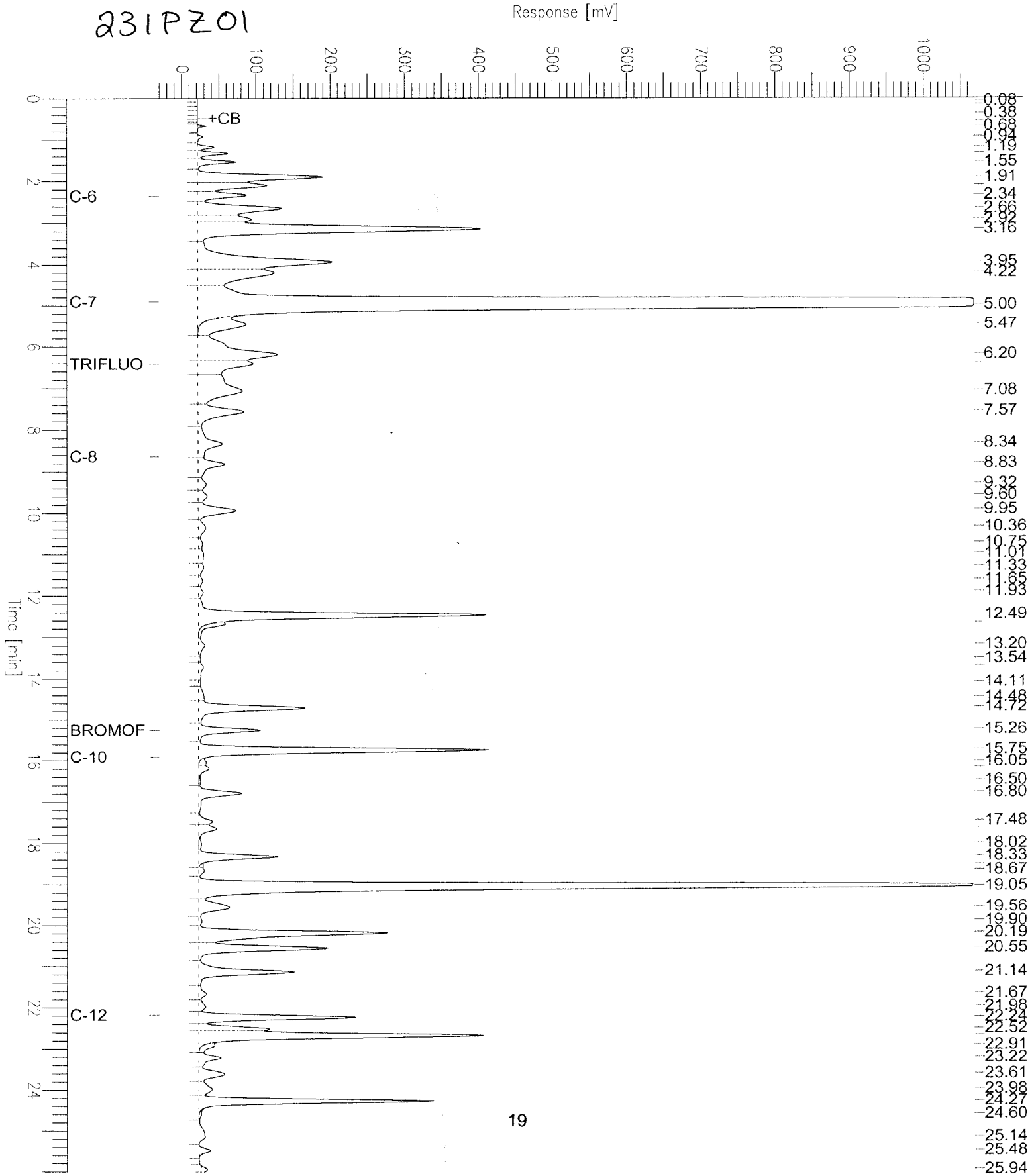


GC07 TVH 'A' Data File RTX 502

Sample Name : 185558-022,111~~320~~316,tvh
FileName : G:\GC07\DATA\074A020.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.00 min
Scale Factor: 1.0 Plot Offset: -31 mV

Sample #: a1.6 Page 1 of 1
Date : 3/16/06 01:01 AM
Time of Injection: 3/16/06 12:34 AM
Low Point : -31.27 mV High Point : 1068.07 mV
Plot Scale: 1099.3 mV

231PZ01



Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/14/06
Units:	ug/L	Received:	03/15/06

Field ID:	937GW06	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	111336
Lab ID:	185558-023	Analyzed:	03/16/06

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	97	65-135
Bromofluorobenzene (FID)	100	65-135

Field ID:	937GW42	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	111336
Lab ID:	185558-024	Analyzed:	03/16/06

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	97	65-135
Bromofluorobenzene (FID)	104	65-135

Field ID:	937GW32R	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	111336
Lab ID:	185558-025	Analyzed:	03/16/06

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	105	65-135
Bromofluorobenzene (FID)	104	65-135

Field ID:	231GW15	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	111336
Lab ID:	185558-026	Analyzed:	03/16/06

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	100	65-135
Bromofluorobenzene (FID)	104	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/14/06
Units:	ug/L	Received:	03/15/06

Field ID:	231GW13	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	111336
Lab ID:	185558-027	Analyzed:	03/16/06

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	93	65-135
Bromofluorobenzene (FID)	102	65-135

Type:	BLANK	Batch#:	111320
Lab ID:	QC331543	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	107	65-135
Bromofluorobenzene (FID)	98	65-135

Type:	BLANK	Batch#:	111336
Lab ID:	QC331603	Analyzed:	03/15/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	93	65-135
Bromofluorobenzene (FID)	96	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

GC07 TVH 'A' Data File RTX 502

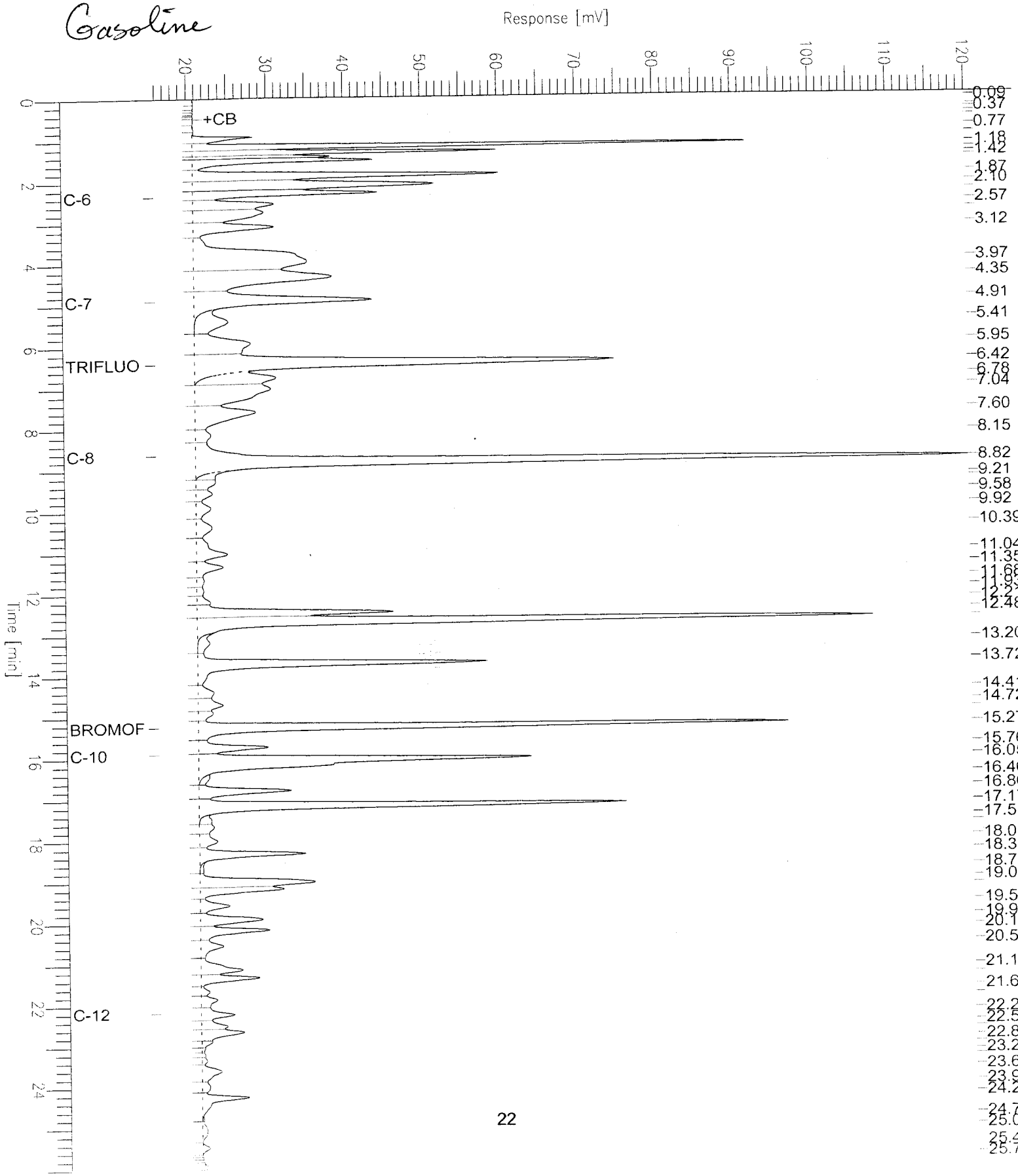
Sample Name : ccv/lcs,qc331604,111336,s2869,2.5/5000
FileName : G:\GC07\DATA\074a001.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor: 1.0

End Time : 26.00 min
Plot Offset: 16 mV

Sample #:
Date : 3/17/06 09:14 AM
Time of Injection: 3/15/06 12:37 PM
Low Point : 15.86 mV
Plot Scale: 104.2 mV

High Point : 120.02 mV

Gasoline



Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331545	Batch#:	111320
Matrix:	Water	Analyzed:	03/15/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	1,969	98	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	115	65-135
Bromofluorobenzene (FID)	109	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331604	Batch#:	111336
Matrix:	Water	Analyzed:	03/15/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	925.0	93	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	65-135
Bromofluorobenzene (FID)	101	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	111320
MSS Lab ID:	185522-001	Sampled:	03/13/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Type: MS Lab ID: QC331626

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	13.47	2,000	1,962	97	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	132	65-135
Bromofluorobenzene (FID)	117	65-135

Type: MSD Lab ID: QC331627

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,103	104	65-135	7	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	134	65-135
Bromofluorobenzene (FID)	118	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	937GW107	Batch#:	111320
MSS Lab ID:	185558-001	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Analyzed:	03/16/06
Diln Fac:	1.000		

Type: MS Lab ID: QC331710

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	16.42	2,000	1,934	96	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	123	65-135
Bromofluorobenzene (FID)	113	65-135

Type: MSD Lab ID: QC331711

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,984	98	65-135	3	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	127	65-135
Bromofluorobenzene (FID)	115	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	111336
MSS Lab ID:	185541-001	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Analyzed:	03/15/06
Diln Fac:	1.000		

Type: MS Lab ID: QC331628

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	26.65	2,000	2,143	106	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	118	65-135
Bromofluorobenzene (FID)	107	65-135

Type: MSD Lab ID: QC331629

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,084	103	65-135	3	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	116	65-135
Bromofluorobenzene (FID)	106	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	DAEGW05	Batch#:	111336
MSS Lab ID:	185558-013	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Analyzed:	03/16/06
Diln Fac:	1.000		

Type: MS Lab ID: QC331687

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	20.64	2,000	1,873	93	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	120	65-135
Bromofluorobenzene (FID)	108	65-135

Type: MSD Lab ID: QC331688

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,949	96	65-135	4	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	118	65-135
Bromofluorobenzene (FID)	106	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185558 GCVOA Water: EPA 8015B

Inst : GC05
Calnum : 315497353001
Units : ng

Name : tvh
Date : 11-DEC-2005 10:16
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	345_003	315497353003	tvh 1	11-DEC-2005 10:16	S1367 (1000X), S1895 (5000X)
L2	345_004	315497353004	tvh 2	11-DEC-2005 10:48	S1368 (1000X), S1895 (5000X)
L3	345_005	315497353005	tvh 3	11-DEC-2005 11:19	S1369 (1000X), S1895 (5000X)
L4	345_006	315497353006	tvh 4	11-DEC-2005 11:51	S1370 (2000X), S1895 (5000X)
L5	345_007	315497353007	tvh 5	11-DEC-2005 12:23	S1370 (1000X), S1895 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	G	1693.0	1307.5	1282.8	1171.1	1217.8	AVRG		7.49E-4		1334.5	16	0.995	20	

29

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185558 GCVOA Water: EPA 8015B / EPA 8021B

Inst : GC05
Calnum : 316013420001
Units : ng

Name : TFT/BFB
Date : 09-JAN-2006 12:00
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	009_006	316013420006	tft/bfb 1	09-JAN-2006 12:00	S1889 (5000X)
L2	009_007	316013420007	tft/bfb 2	09-JAN-2006 12:32	S1890 (5000X)
L3	009_008	316013420008	tft/bfb 3	09-JAN-2006 13:04	S1891 (5000X)
L4	009_009	316013420009	tft/bfb 4	09-JAN-2006 13:42	S1892 (5000X)
L5	009_010	316013420010	tft/bfb 5	09-JAN-2006 14:13	S1893 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	G	1339.7	1422.7	1133.8	1120.9	1121.5	AVRG		8.15E-4		1227.7	12	0.995	20	
Bromofluorobenzene (FID)	G	858.52	958.51	732.70	751.93	754.50	AVRG		0.00123		811.23	12	0.995	20	

30

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

316013420001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185558 GCVOA Water: EPA 8015B

Inst : GC07
Calnum : 326038690001
Units : ng

Name : tvh
Date : 27-JAN-2006 04:27
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	026_014	326038690014	tvh 1	27-JAN-2006 04:27	S2395 (1000X), S2543 (5000X)
L2	026_015	326038690015	tvh 2	27-JAN-2006 05:02	S2396 (1000X), S2543 (5000X)
L3	026_016	326038690016	tvh 3	27-JAN-2006 05:37	S2397 (1000X), S2543 (5000X)
L4	026_017	326038690017	tvh 4	27-JAN-2006 06:12	S2399 (2000X), S2543 (5000X)
L5	026_018	326038690018	tvh 5	27-JAN-2006 06:47	S2399 (1000X), S2543 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	1535.0	1209.2	1082.9	1059.1	1154.7	AVRG		8.28E-4		1208.2	16	0.995	20	

31

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185558 GCVOA Water: EPA 8015B / EPA 8021B

Inst : GC07
Calnum : 326038690002
Units : ng

Name : tft/bfb
Date : 27-JAN-2006 14:01
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	026_026	326038690026	tft/bfb 1	27-JAN-2006 14:01	S2572 (5000X)
L2	026_027	326038690027	tft/bfb 2	27-JAN-2006 14:37	S2573 (5000X)
L3	026_028	326038690028	tft/bfb 3	27-JAN-2006 15:12	S2574 (5000X)
L4	026_029	326038690029	tft/bfb 4	27-JAN-2006 16:48	S2575 (5000X)
L5	026_030	326038690030	tft/bfb 5	27-JAN-2006 17:24	S2576 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	1385.9	1332.8	1647.4	1459.4	1484.5	AVRG		6.84E-4		1462.0	8	0.995	20	
Bromofluorobenzene (FID)	A	1241.8	1164.6	1387.8	1265.3	1264.8	AVRG		7.91E-4		1264.8	6	0.995	20	

32

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185558 GCVOA Water
EPA 8015B

Inst : GC05 Name : tvh
Calnum : 315497353001 Cal Date: 11-DEC-2005

ICV 315497353010 (345_010 11-DEC-2005) stds: S2241 (1000X), S1895 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	G	10000	9115	ng	-9	

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185558 GCVOA Water
EPA 8015B

Inst : GC07 Name : tvh
Calnum : 326038690001 Cal Date: 27-JAN-2006

ICV 326038690021 (026_021 27-JAN-2006) stds: S2557 (1000X), S2543 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	A	10000	9086	ng	-9	

CONTINUING CALIBRATION SUMMARY FOR 185558 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Gasoline C7-C12

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	G	316107098003	15-MAR-2006 10:01	315497353001	11-DEC-2005	1334.5	1313.5	10000	9842.9	ng	-2	15	
GC05	G	316107098015	15-MAR-2006 18:07	315497353001	11-DEC-2005	1334.5	1283.6	15000	14429	ng	-4	15	
GC05	G	316107098016	15-MAR-2006 18:39	315497353001	11-DEC-2005	1334.5	1299.1	15000	14603	ng	-3	15	
GC05	G	316107098031	16-MAR-2006 02:31	315497353001	11-DEC-2005	1334.5	1350.4	5000.0	5059.7	ng	1	15	
GC05	G	316107098032	16-MAR-2006 03:02	315497353001	11-DEC-2005	1334.5	1403.1	5000.0	5257.3	ng	5	15	
GC05	G	316107098042	16-MAR-2006 08:14	315497353001	11-DEC-2005	1334.5	1374.0	5000.0	5148.1	ng	3	15	
GC07	A	326107317001	15-MAR-2006 12:37	326038690001	27-JAN-2006	1208.2	1117.6	5000.0	4625.2	ng	-7	15	
GC07	A	326107317011	15-MAR-2006 19:08	326038690001	27-JAN-2006	1208.2	1241.1	15000	15408	ng	3	15	
GC07	A	326107317012	15-MAR-2006 19:44	326038690001	27-JAN-2006	1208.2	1268.1	15000	15743	ng	5	15	
GC07	A	326107317023	16-MAR-2006 02:23	326038690001	27-JAN-2006	1208.2	1156.4	15000	14357	ng	-4	15	
GC07	A	326107317024	16-MAR-2006 02:59	326038690001	27-JAN-2006	1208.2	1183.2	15000	14690	ng	-2	15	
GC07	A	326107317031	16-MAR-2006 07:13	326038690001	27-JAN-2006	1208.2	1118.6	10000.0	9258.3	ng	-7	15	

CONTINUING CALIBRATION SUMMARY FOR 185558 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Trifluorotoluene (FID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	G	316107098002	15-MAR-2006 09:30	316013420001	09-JAN-2006	1227.7	1297.2	450.00	475.46	ng	6	15	
GC05	G	316107098003	15-MAR-2006 10:01	316013420001	09-JAN-2006	1227.7	1405.9	450.00	515.30	ng	15	15	
GC05	G	316107098013	15-MAR-2006 17:03	316013420001	09-JAN-2006	1227.7	1372.1	450.00	502.92	ng	12	15	
GC05	G	316107098029	16-MAR-2006 01:28	316013420001	09-JAN-2006	1227.7	1256.6	450.00	460.58	ng	2	15	
GC05	G	316107098042	16-MAR-2006 08:14	316013420001	09-JAN-2006	1227.7	1429.3	450.00	523.90	ng	**16**	15	c+ PASS
GC07	A	326107317001	15-MAR-2006 12:37	326038690002	27-JAN-2006	1462.0	1505.8	450.00	463.47	ng	3	15	
GC07	A	326107317011	15-MAR-2006 19:08	326038690002	27-JAN-2006	1462.0	1789.4	450.00	550.77	ng	**22**	15	c+ p PASS
GC07	A	326107317023	16-MAR-2006 02:23	326038690002	27-JAN-2006	1462.0	1591.8	450.00	489.96	ng	9	15	
GC07	A	326107317031	16-MAR-2006 07:13	326038690002	27-JAN-2006	1462.0	1555.2	450.00	478.68	ng	6	15	

AW 3.17.06

+=high bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 185558 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Bromofluorobenzene (FID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	G	316107098002	15-MAR-2006 09:30	316013420001	09-JAN-2006	811.23	810.55	450.00	449.62	ng	0	15	
GC05	G	316107098003	15-MAR-2006 10:01	316013420001	09-JAN-2006	811.23	880.59	450.00	488.48	ng	9	15	
GC05	G	316107098013	15-MAR-2006 17:03	316013420001	09-JAN-2006	811.23	871.09	450.00	483.20	ng	7	15	
GC05	G	316107098029	16-MAR-2006 01:28	316013420001	09-JAN-2006	811.23	773.01	450.00	428.80	ng	-5	15	
GC05	G	316107098042	16-MAR-2006 08:14	316013420001	09-JAN-2006	811.23	885.83	450.00	491.38	ng	9	15	
GC07	A	326107317001	15-MAR-2006 12:37	326038690002	27-JAN-2006	1264.8	1275.0	450.00	453.61	ng	1	15	
GC07	A	326107317011	15-MAR-2006 19:08	326038690002	27-JAN-2006	1264.8	1407.0	450.00	500.57	ng	11	15	
GC07	A	326107317023	16-MAR-2006 02:23	326038690002	27-JAN-2006	1264.8	1292.5	450.00	459.86	ng	2	15	
GC07	A	326107317031	16-MAR-2006 07:13	326038690002	27-JAN-2006	1264.8	1270.1	450.00	451.89	ng	0	15	

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316107098 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 15-MAR-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds Used	>LR
001	074_001	X	ib			15-MAR-2006 08:58	1.0						1	
002	074_002	CCV/LCS	QC331544	111320	Water	15-MAR-2006 09:30	1.0			5000			2 1 PASS	
003	074_003	CCV/LCS	QC331545	111320	Water	15-MAR-2006 10:01	1.0			5000			3 1	
004	074_004	CCV	coleman	111320		15-MAR-2006 10:32	1.0			5000			4 1	
005	074_005	BLANK	QC331543	111320	Water	15-MAR-2006 11:04	1.0	2		5000			1 <1/2 RL	
006	074_006	MSS	185522-001	111320	Water	15-MAR-2006 13:18	1.0	1		5000	A	1.3	1	
007	074_007	SAMPLE	185522-002	111320	Water	15-MAR-2006 13:50	1.0			5000			1	
008	074_008	MS	QC331626	111320	Water	15-MAR-2006 14:22	1.0		1	5000			3 1 PASS	
009	074_009	MSD	QC331627	111320	Water	15-MAR-2006 14:54	1.0			5000			3 1	
010	074_010	SAMPLE	185522-003	111320	Water	15-MAR-2006 15:26	1.0			5000			1	
011	074_011	SAMPLE	185522-004	111320	Water	15-MAR-2006 15:58	1.0			5000			1	
012	074_012	SAMPLE	185522-005	111320	Water	15-MAR-2006 16:30	1.0		1	5000		1.6	1	
013	074_013	CCV	btxe	111320		15-MAR-2006 17:03	1.0			5000			2 1 PASS	
014	074_014	CCV	btxe	111320		15-MAR-2006 17:35	1.0			5000			2 1	
015	074_015	CCV	tvh	111320		15-MAR-2006 18:07	1.0			5000			3 1	
016	074_016	CCV	tvh	111320		15-MAR-2006 18:39	1.0			5000			3 1	
017	074_017	CCV	coleman	111320		15-MAR-2006 19:11	1.0			5000			4 1	
018	074_018	CCV	coleman	111320		15-MAR-2006 19:42	1.0			5000			4 1	
019	074_019	SAMPLE	185522-006	111320	Water	15-MAR-2006 20:14	1.0			5000	A	1.3	1	
020	074_020	SAMPLE	185522-007	111320	Water	15-MAR-2006 20:45	1.0			5000			1	
021	074_021	SAMPLE	185522-008	111320	Water	15-MAR-2006 21:17	1.0	1		5000		1.6	1	1:F3BZME=1108.09
022	074_022	SAMPLE	185548-001	111320	Water	15-MAR-2006 21:49	1.0			5000		1.0	1	
023	074_023	SAMPLE	185548-002	111320	Water	15-MAR-2006 22:20	1.0			5000			1	
024	074_024	MSS	185558-001	111320	Water	15-MAR-2006 22:51	1.0	2		5000		1.3	1	
025	074_025	SAMPLE	185558-002	111320	Water	15-MAR-2006 23:23	1.0	1		5000		1.6	1	
026	074_026	SAMPLE	185558-003	111320	Water	15-MAR-2006 23:54	1.0	1		5000		1.3	1	
027	074_027	SAMPLE	185558-004	111320	Water	16-MAR-2006 00:26	1.0	1		5000			1	
028	074_028	SAMPLE	185558-005	111320	Water	16-MAR-2006 00:57	1.0	1		5000			1	
029	074_029	CCV	btxe	111320		16-MAR-2006 01:28	1.0			5000			2 1 PASS	
030	074_030	X	btxe	111320		16-MAR-2006 02:00	1.0						2 1 NOT USED	

Stds used: 1=S2543 2=S2650 3=S2869 4=S2935

Analyst: TJY Date: 3/17/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316107098 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 15-MAR-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds Used	>LR
031	074_031	CCV	tvh	111320		16-MAR-2006 02:31	1.0			5000			3 1 PASS	
032	074_032	CCV	tvh	111320		16-MAR-2006 03:02	1.0			5000			3 1	
033	074_033	CCV	coleman	111320		16-MAR-2006 03:34	1.0			5000			4 1	
034	074_034	CCV	coleman	111320		16-MAR-2006 04:05	1.0			5000			4 1	
035	074_035	SAMPLE	185558-006	111320	Water	16-MAR-2006 04:36	1.0	1		5000	A	1.3	1	
036	074_036	SAMPLE	185558-007	111320	Water	16-MAR-2006 05:07	1.0	1		5000			1	
037	074_037	SAMPLE	185558-008	111320	Water	16-MAR-2006 05:39	1.0	1		5000		1.6	1	
038	074_038	SAMPLE	185558-009	111320	Water	16-MAR-2006 06:10	1.0	1		5000			1	
039	074_039	SAMPLE	185558-011	111320	Water	16-MAR-2006 06:41	1.0	1		5000		1.3	1	
040	074_040	MS	QC331710	111320	Water	16-MAR-2006 07:12	1.0			5000			3 1 PASS	
041	074_041	MSD	QC331711	111320	Water	16-MAR-2006 07:43	1.0			5000			3 1	
042	074_042	CCV	tvh	111320		16-MAR-2006 08:14	1.0			5000			3 1	
043	074_043	CCV	tvh	111320		16-MAR-2006 08:46	1.0			5000			3 1	

Stds used: 1=S2543 2=S2650 3=S2869 4=S2935

Analyst: TJY Date: 3/17/06

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3/17/06 3/17/06

PROJECT GC 07 Sequence Log Book Notebook No. BK 2205

Continued From Page

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 326107317 Instrument: GC07
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #7 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 15-MAR-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	074_001	CCV/LCS	QC331604	111336	Water	15-MAR-2006 12:37	1.0			5000			1 2	Pass/use
002	074_002	BLANK	QC331603	111336	Water	15-MAR-2006 13:13	1.0	2		5000			1 2	≤ 1/2 RL
003	074_003	SAMPLE	185523-005	111336	Water	15-MAR-2006 14:18	1.0			5000	A	11.3	1 2	Trip Blank
004	074_004	MSS	185541-001	111336	Water	15-MAR-2006 14:54	1.0	1		5000	B	11.6	1 2	
005	074_005	MS	QC331628	111336	Water	15-MAR-2006 15:30	1.0			5000	B	11.6	1 2	
006	074_006	MSD	QC331629	111336	Water	15-MAR-2006 16:06	1.0			5000	B	11.6	1 2	
007	074_007	SAMPLE	185541-003	111336	Water	15-MAR-2006 16:42	1.0			5000	B	11.6	1 2	
008	074_008	SAMPLE	185541-004	111336	Water	15-MAR-2006 17:19	1.0			5000	B	11.6	1 2	
009	074_009	X	185541-002	111336	Water	15-MAR-2006 17:55	50.0			5000	B	11.9	1 2	
010	074_010	SAMPLE	185558-019	111336	Water	15-MAR-2006 18:32	10.0	1		5000	A	11.6	1 2	
011	074_011	CCV	tvh	111336	Water	15-MAR-2006 19:08	1.0			5000			1 2	pass/use
012	074_012	CCV	tvh	111336	Water	15-MAR-2006 19:44	1.0			5000			1 2	↓
013	074_013	SAMPLE	185558-020	111336	Water	15-MAR-2006 20:21	10.0	1	1	5000	A	11.3	1 2	
014	074_014	SAMPLE	185558-014	111336	Water	15-MAR-2006 20:57	1.0	1		5000	A	11.3	1 2	
015	074_015	SAMPLE	185558-015	111336	Water	15-MAR-2006 21:33	1.0	1		5000	A	11.3	1 2	
016	074_016	SAMPLE	185558-016	111336	Water	15-MAR-2006 22:09	1.0	1		5000	A	11.3	1 2	
017	074_017	SAMPLE	185558-017	111336	Water	15-MAR-2006 22:46	1.0	1		5000	A	11.3	1 2	
018	074_018	SAMPLE	185558-018	111336	Water	15-MAR-2006 23:22	1.0	1		5000	A	11.3	1 2	
019	074_019	SAMPLE	185558-021	111336	Water	15-MAR-2006 23:58	1.0	1		5000	A	11.3	1 2	
020	074_020	SAMPLE	185558-022	111336	Water	16-MAR-2006 00:34	1.0	1	1	5000	A	11.6	1 2	
021	074_021	SAMPLE	185558-023	111336	Water	16-MAR-2006 01:10	1.0	1		5000	A	11.3	1 2	
022	074_022	SAMPLE	185558-024	111336	Water	16-MAR-2006 01:46	1.0	1		5000	A	11.3	1 2	
023	074_023	CCV	tvh	111336	Water	16-MAR-2006 02:23	1.0			5000			1 2	pass/use
024	074_024	CCV	tvh	111336	Water	16-MAR-2006 02:59	1.0			5000			1 2	↓
025	074_025	SAMPLE	185558-025	111336	Water	16-MAR-2006 03:35	1.0	1		5000	A	11.3	1 2	
026	074_026	SAMPLE	185558-026	111336	Water	16-MAR-2006 04:11	1.0	1		5000	A	11.3	1 2	
027	074_027	SAMPLE	185558-027	111336	Water	16-MAR-2006 04:48	1.0	1		5000	A	11.3	1 2	
028	074_028	MSS	185558-013	111336	Water	16-MAR-2006 05:24	1.0	2		5000	A	11.3	1 2	
029	074_029	MS	QC331687	111336	Water	16-MAR-2006 06:00	1.0			5000	A	11.3	1 2	pass/use
030	074_030	MSD	QC331688	111336	Water	16-MAR-2006 06:37	1.0			5000	A	11.3	1 2	↓

Stds used: 1=S2869 2=S2543

Analyst: AW Date: 3.17.06

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AH Wonniewicz 3.17.06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 326107317 Instrument: GC07
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #7 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 15-MAR-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
031	074_031	CCV	tvh	111336	Water	16-MAR-2006 07:13	1.0			5000			1 2	pass/use
032	074_032	CCV	tvh	111336	Water	16-MAR-2006 07:49	1.0			5000			1 2	

AH Wonniewicz 3.17.06

Stds used: 1=S2869 2=S2543

Analyst: AW Date: 3.17.06

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Read and Understood By

AH Wonniewicz 3-17-06 Signed Date

Michael [illegible] 03/20/06 Signed Date

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 325497153 Instrument: GC07 Gas Chromatograph #7 TVH/BTXE Begun: 11-DEC-2005
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	345_001	X	ib			11-DEC-2005 05:53	1.0						1	
002	345_002	X	QC320610	108592	Water	11-DEC-2005 06:28	1.0						2 1 Not used	
003	345_003	X	QC320610	108592	Water	11-DEC-2005 07:35	1.0	1		5000			2 1	
004	345_004	X	QC320610	108592	Water	11-DEC-2005 09:04	1.0	5	1	5000			3 1	
005	345_005	X	ib			11-DEC-2005 09:53	1.0						1	
006	345_006	X	ib			11-DEC-2005 10:28	1.0						1	
007	345_007	ICAL	tvh 1			11-DEC-2005 11:03	1.0						4 1 PASS/use	
008	345_008	ICAL	tvh 2			11-DEC-2005 11:38	1.0						5 1	
009	345_009	ICAL	tvh 3			11-DEC-2005 12:13	1.0						6 1	
010	345_010	ICAL	tvh 4			11-DEC-2005 12:48	1.0						7 1	
011	345_011	ICAL	tvh 5			11-DEC-2005 13:23	1.0						7 1	
012	345_012	X	ib			11-DEC-2005 13:58	1.0						1	
013	345_013	ICV	tvh			11-DEC-2005 14:33	1.0			5000			2 1 use	
014	345_014	X	tvh			11-DEC-2005 15:08	1.0			5000			3 1 Not used	
015	345_015	X	ib			11-DEC-2005 15:42	1.0						1	
016	345_016	X	carbmark			11-DEC-2005 16:18	1.0						8 9 1	

Stds used: 1=S1895 2=S2152 3=S2241 4=S1367 5=S1368 6=S1369 7=S1370 8=S1645 9=S1646

Analyst: [signature] Date: 12/12/05
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[signature] 12/12/05

Signed [signature] Date 12/12/05

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Signed [signature] Date 12/12/05

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316013420 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 09-JAN-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL (LOCKED)	pH	Stds Used	>LR
001	009_001	X	ib			09-JAN-2006 07:40	1.0						1	
002	009_002	X	mbtxe		Water	09-JAN-2006 08:11	1.0						2 1 Not used	
003	009_003	X	gas		Water	09-JAN-2006 08:43	1.0						3 1	
004	009_004	X	ib			09-JAN-2006 09:14	1.0						1	
005	009_005	X	ib			09-JAN-2006 11:29	1.0						1	
006	009_006	ICAL	tft/bfb 1			09-JAN-2006 12:00	1.0						4 PASS/USE	
007	009_007	ICAL	tft/bfb 2			09-JAN-2006 12:32	1.0						5	
008	009_008	ICAL	tft/bfb 3			09-JAN-2006 13:04	1.0						6	
009	009_009	ICAL	tft/bfb 4			09-JAN-2006 13:42	1.0						7	
010	009_010	ICAL	tft/bfb 5			09-JAN-2006 14:13	1.0						8	
011	009_011	X	ib			09-JAN-2006 15:31	1.0						1	
012	009_012	CCV/LCS	QC323487	109331	Soil	09-JAN-2006 16:03	1.0			5000			2 1 PASS/USE	
013	009_013	CCV/LCS	QC323488	109331	Soil	09-JAN-2006 16:35	1.0		1	5000			3 1	
014	009_014	BLANK	QC323486	109331	Soil	09-JAN-2006 17:06	1.0	4		5000			1 ≤1/2 RL	
015	009_015	MSS	184210-025	109331	Soil	09-JAN-2006 18:44	1.0	1		5000			1	
016	009_016	MS	QC323558	109331	Soil	09-JAN-2006 19:15	1.0		2	5000			3 1 PASS/USE	
017	009_017	MSD	QC323559	109331	Soil	09-JAN-2006 19:47	1.0		2	5000			3 1	
018	009_018	SAMPLE	184210-019	109331	Soil	09-JAN-2006 20:18	1.0			5000			1	
019	009_019	SAMPLE	184210-020	109331	Soil	09-JAN-2006 20:50	1.0			5000			1	
020	009_020	SAMPLE	184210-021	109331	Soil	09-JAN-2006 21:22	1.0			5000			1	
021	009_021	SAMPLE	184210-022	109331	Soil	09-JAN-2006 21:53	1.0			5000			1	
022	009_022	CCV	btxe	109331		09-JAN-2006 22:25	1.0			5000			2 1 PASS/USE	
023	009_023	CCV	btxe	109331		09-JAN-2006 22:56	1.0			5000			2 1	
024	009_024	CCV	tvh	109331		09-JAN-2006 23:28	1.0			5000			3 1	
025	009_025	CCV	tvh	109331		09-JAN-2006 23:59	1.0			5000			3 1	
026	009_026	SAMPLE	184210-023	109331	Soil	10-JAN-2006 00:31	1.0			5000			1	
027	009_027	SAMPLE	184210-024	109331	Soil	10-JAN-2006 01:03	1.0		6	5000			1	
028	009_028	SAMPLE	184210-024	109331	Soil	10-JAN-2006 07:38	1.0			5000			1	
029	009_029	SAMPLE	184210-026	109331	Soil	10-JAN-2006 08:09	1.0	1	2	5000			1	1:BR4FBZ=1175.89
030	009_030	SAMPLE	184210-027	109331	Soil	10-JAN-2006 08:41	1.0			5000			1	

Stds used: 1=S1895 2=S2369 3=S2400 4=S1889 5=S1890 6=S1891 7=S1892 8=S1893

Analyst: [signature] Date: 01/10/06
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Surr used in QC EM 128974-M104164

[signature] 1/10/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316013420 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 09-JAN-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL (LOCKED)	pH	Stds Used	>LR
031	009_031	CCV	btxe	109331		10-JAN-2006 09:12	1.0			5000			2 1 PASS/USE	
032	009_032	CCV	tvh	109331		10-JAN-2006 09:44	1.0			5000			3 1	

[signature] 1/12/06

Stds used: 1=S1895 2=S2369 3=S2400 4=S1889 5=S1890 6=S1891 7=S1892 8=S1893

Analyst: [signature] Date: 01/10/06
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Read and Understood By

[signature] 1/10/06 [signature] 1/10/06
Signed Date

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 326038690 Instrument: GC07 Gas Chromatograph #7 TVH/BTXE Begun: 26-JAN-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds Used	>LR
001	026_001	X	ib			26-JAN-2006 20:50	1.0						1	
002	026_002	X	Btxe 1			26-JAN-2006 21:25	1.0						2 1 NOT USED	
003	026_003	X	Mbtxe 1			26-JAN-2006 22:00	1.0						3 1	
004	026_004	X	Mbtxe 2			26-JAN-2006 22:35	1.0						3 1	
005	026_005	X	Mbtxe 3			26-JAN-2006 23:10	1.0						3 1	
006	026_006	X	Mbtxe 4			26-JAN-2006 23:46	1.0						4 1	
007	026_007	X	Mbtxe 5			27-JAN-2006 00:21	1.0						4 1	
008	026_008	X	Mbtxe 6			27-JAN-2006 00:56	1.0						4 1	
009	026_009	X	Mbtxe 7			27-JAN-2006 01:31	1.0						5 1	
010	026_010	X	ib			27-JAN-2006 02:06	1.0						1	
011	026_011	X	Mbtxe			27-JAN-2006 02:41	1.0						6 1 NOT USED	
012	026_012	X	Mbtxe			27-JAN-2006 03:16	1.0						6 1	
013	026_013	X	ib			27-JAN-2006 03:52	1.0						1	
014	026_014	ICAL	tvh 1			27-JAN-2006 04:27	1.0						7 1 pass	
015	026_015	ICAL	tvh 2			27-JAN-2006 05:02	1.0						8 1	
016	026_016	ICAL	tvh 3			27-JAN-2006 05:37	1.0						9 1	
017	026_017	ICAL	tvh 4			27-JAN-2006 06:12	1.0						10 1	
018	026_018	ICAL	tvh 5			27-JAN-2006 06:47	1.0						10 1	
019	026_019	X	ib			27-JAN-2006 07:22	1.0						1	
020	026_020	X	tvh			27-JAN-2006 07:57	1.0						11 1 NOT USED	
021	026_021	ICV	tvh			27-JAN-2006 08:32	1.0	2		5000			11 1 pass	3:BZME=2288.94
022	026_022	X	ib			27-JAN-2006 09:08	1.0						1	
023	026_023	X	carbmark			27-JAN-2006 09:43	1.0						12 13 1 USE	
024	026_024	X	ib			27-JAN-2006 12:51	1.0						1	
025	026_025	X	ib			27-JAN-2006 13:26	1.0						1	
026	026_026	ICAL	tft/bfb 1			27-JAN-2006 14:01	1.0						14 pass/use	
027	026_027	ICAL	tft/bfb 2			27-JAN-2006 14:37	1.0						15	
028	026_028	ICAL	tft/bfb 3			27-JAN-2006 15:12	1.0						16	
029	026_029	ICAL	tft/bfb 4			27-JAN-2006 16:48	1.0						17	
030	026_030	ICAL	tft/bfb 5			27-JAN-2006 17:24	1.0						18	

Stds used: 1=S2543 2=S2368 3=S2367 4=S2366 5=S1492 6=S2157 7=S2395 8=S2396 9=S2397 10=S2399 11=S2557 12=S1645 13=S1646 14=S2572 15=S2573 16=S2574 17=S2575 18=S2576

Analyst: Date: 1/30/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 326038690 Instrument: GC07 Gas Chromatograph #7 TVH/BTXE Begun: 26-JAN-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds Used	>LR
031	026_031	X	ib			27-JAN-2006 18:59	1.0						1	

1/30/06

Stds used: 1=S2543 2=S2368 3=S2367 4=S2366 5=S1492 6=S2157 7=S2395 8=S2396 9=S2397 10=S2399 11=S2557 12=S1645 13=S1646 14=S2572 15=S2573 16=S2574 17=S2575 18=S2576

Analyst: Date: 1/30/06

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Continued on Page

Read and Understood By

Signed 1/30/06 Date Signed 1/30/06 Date

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185558 TVH Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	GAS:	STOD	F3BZ	BR4F	
185558-001	GC05	03/15/06 22:51	1.0	+		+	+	
185558-002	GC05	03/15/06 23:23	1.0	+		+	+	
185558-003	GC05	03/15/06 23:54	1.0	+		+	+	
185558-004	GC05	03/16/06 00:26	1.0	+		+	+	
185558-005	GC05	03/16/06 00:57	1.0	+		+	+	
185558-006	GC05	03/16/06 04:36	1.0	+		+	+	
185558-007	GC05	03/16/06 05:07	1.0	+		+	+	
185558-008	GC05	03/16/06 05:39	1.0	+		+	+	
185558-009	GC05	03/16/06 06:10	1.0	+		+	+	
185558-011	GC05	03/16/06 06:41	1.0	+		+	+	
185558-013	GC07	03/16/06 05:24	1.0	+		+	+	
185558-014	GC07	03/15/06 20:57	1.0	+		+	+	
185558-015	GC07	03/15/06 21:33	1.0	+		+	+	
185558-016	GC07	03/15/06 22:09	1.0	+		+	+	
185558-017	GC07	03/15/06 22:46	1.0	+		+	+	
185558-018	GC07	03/15/06 23:22	1.0	+		+	+	
185558-019	GC07	03/15/06 18:32	10.0	+		+	+	
185558-020	GC07	03/15/06 20:21	10.0	+			+	
185558-021	GC07	03/15/06 23:58	1.0	+		+	+	
185558-022	GC07	03/16/06 00:34	1.0	+		+	+	
185558-023	GC07	03/16/06 01:10	1.0	+		+	+	
185558-024	GC07	03/16/06 01:46	1.0	+		+	+	
185558-025	GC07	03/16/06 03:35	1.0	+		+	+	

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185558 TVH Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	GAS:	STOD	F3BZ	BR4F	
185558-026	GC07	03/16/06 04:11	1.0	+		+	+	
185558-027	GC07	03/16/06 04:48	1.0	+		+	+	
QC331543	GC05	03/15/06 11:04	1.0	+		+	+	
QC331544	GC05	03/15/06 09:30	1.0					
QC331545	GC05	03/15/06 10:01	1.0	+		+	+	
QC331626	GC05	03/15/06 14:22	1.0	+		+	+	
QC331627	GC05	03/15/06 14:54	1.0	+		+	+	
QC331710	GC05	03/16/06 07:12	1.0	+		+	+	
QC331711	GC05	03/16/06 07:43	1.0	+		+	+	
QC331603	GC07	03/15/06 13:13	1.0	+		+	+	
QC331604	GC07	03/15/06 12:37	1.0	+		+	+	
QC331628	GC07	03/15/06 15:30	1.0	+		+	+	
QC331629	GC07	03/15/06 16:06	1.0	+		+	+	
QC331687	GC07	03/16/06 06:00	1.0	+		+	+	
QC331688	GC07	03/16/06 06:37	1.0	+		+	+	

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111336
Date Started: 15-MAR-2006
Batched by : Micaela M. Perpetuo

Analysis : N/A
Bgroup : TVH
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185523-005			URS Corporation	Water	TVH	20-MAR-2006
185541-001			Arcadis G&M	Water	TVH	27-MAR-2006
185541-002			Arcadis G&M	Water	TVH	27-MAR-2006
185541-003			Arcadis G&M	Water	TVH	27-MAR-2006
185541-004			Arcadis G&M	Water	TVH	27-MAR-2006
185558-013			Treadwell & Rollo	Water	TVH	27-MAR-2006
185558-014			Treadwell & Rollo	Water	TVH	27-MAR-2006
185558-015			Treadwell & Rollo	Water	TVH	27-MAR-2006
185558-016			Treadwell & Rollo	Water	TVH	27-MAR-2006
185558-017			Treadwell & Rollo	Water	TVH	27-MAR-2006
185558-018			Treadwell & Rollo	Water	TVH	27-MAR-2006
185558-019			Treadwell & Rollo	Water	TVH	27-MAR-2006
185558-020			Treadwell & Rollo	Water	TVH	27-MAR-2006
185558-021			Treadwell & Rollo	Water	TVH	27-MAR-2006
185558-022			Treadwell & Rollo	Water	TVH	27-MAR-2006
185558-023			Treadwell & Rollo	Water	TVH	27-MAR-2006
185558-024			Treadwell & Rollo	Water	TVH	27-MAR-2006
185558-025			Treadwell & Rollo	Water	TVH	27-MAR-2006
185558-026			Treadwell & Rollo	Water	TVH	27-MAR-2006
185558-027			Treadwell & Rollo	Water	TVH	27-MAR-2006
QC331603	BLANK			Water		
QC331604	LCS			Water		
QC331628	MS	of 185541-001		Water		
QC331629	MSD	of 185541-001		Water		
QC331687	MS	of 185558-013		Water		
QC331688	MSD	of 185558-013		Water		

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Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111320
Date Started: 15-MAR-2006
Batched by : Thelma Perez

Analysis : N/A
Bgroup : TVH
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185522-001			Arcadis G&M	Water	BTXE, TVH	20-MAR-2006
185522-002			Arcadis G&M	Water	BTXE, TVH	20-MAR-2006
185522-003			Arcadis G&M	Water	BTXE, TVH	20-MAR-2006
185522-004			Arcadis G&M	Water	BTXE, TVH	20-MAR-2006
185522-005			Arcadis G&M	Water	BTXE, TVH	20-MAR-2006
185522-006			Arcadis G&M	Water	BTXE, TVH	20-MAR-2006
185522-007			Arcadis G&M	Water	BTXE, TVH	20-MAR-2006
185522-008			Arcadis G&M	Water	BTXE, TVH	20-MAR-2006
185548-001			Iris Environmental	Water	MBTXE, TVH	21-MAR-2006
185548-002			Iris Environmental	Water	MBTXE, TVH	21-MAR-2006
185558-001			Treadwell & Rollo	Water	TVH	27-MAR-2006
185558-002			Treadwell & Rollo	Water	TVH	27-MAR-2006
185558-003			Treadwell & Rollo	Water	TVH	27-MAR-2006
185558-004			Treadwell & Rollo	Water	TVH	27-MAR-2006
185558-005			Treadwell & Rollo	Water	TVH	27-MAR-2006
185558-006			Treadwell & Rollo	Water	TVH	27-MAR-2006
185558-007			Treadwell & Rollo	Water	TVH	27-MAR-2006
185558-008			Treadwell & Rollo	Water	TVH	27-MAR-2006
185558-009			Treadwell & Rollo	Water	TVH	27-MAR-2006
185558-011			Treadwell & Rollo	Water	TVH	27-MAR-2006
QC331543	BLANK			Water		
QC331544	LCS			Water		
QC331545	LCS			Water		
QC331626	MS	of 185522-001		Water		
QC331627	MSD	of 185522-001		Water		
QC331710	MS	of 185558-001		Water		
QC331711	MSD	of 185558-001		Water		

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Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water
As of 04/08/06

Analyte	Units	GC19 X	GC04 A	GC04 J	GC05 G	GC07 A
Gasoline C6-C10	ug/L	21	6.7	6.2	4.8	10
Gasoline C6-C12	ug/L	21	5.5	6.8	4.5	14
Gasoline C7-C12	ug/L	27	4.8	7.2	4.2	15
JP-4 C7-C12	ug/L	4.6		12	9.9	19
Gasoline C6-C8	ug/L					7.0
Gasoline C8-C10	ug/L					12
Trifluorotoluene (FID)	ug/L		3.9			9.8
Bromofluorobenzene (FID)	ug/L		5.2			7.5

TOTAL EXTRACTABLE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/14/06
Units:	ug/L	Received:	03/15/06
Diln Fac:	1.000		

Field ID:	937GW107	Prepared:	03/24/06
Type:	SAMPLE	Analyzed:	03/26/06
Lab ID:	185558-001	Cleanup Method:	EPA 3630C
Batch#:	111662		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	100	65-135

Field ID:	979GW109	Prepared:	03/24/06
Type:	SAMPLE	Analyzed:	03/26/06
Lab ID:	185558-002	Cleanup Method:	EPA 3630C
Batch#:	111662		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	106	65-135

Field ID:	979GW110	Prepared:	03/24/06
Type:	SAMPLE	Analyzed:	03/26/06
Lab ID:	185558-003	Cleanup Method:	EPA 3630C
Batch#:	111662		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	93	65-135

Field ID:	979GW113	Prepared:	03/24/06
Type:	SAMPLE	Analyzed:	03/26/06
Lab ID:	185558-004	Cleanup Method:	EPA 3630C
Batch#:	111662		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	94	65-135

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/14/06
Units:	ug/L	Received:	03/15/06
Diln Fac:	1.000		

Field ID:	979GW114	Prepared:	03/24/06
Type:	SAMPLE	Analyzed:	03/26/06
Lab ID:	185558-005	Cleanup Method:	EPA 3630C
Batch#:	111662		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	84	65-135

Field ID:	979GW112	Prepared:	03/24/06
Type:	SAMPLE	Analyzed:	03/26/06
Lab ID:	185558-006	Cleanup Method:	EPA 3630C
Batch#:	111662		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	89	65-135

Field ID:	979GW112RB116	Prepared:	03/24/06
Type:	SAMPLE	Analyzed:	03/26/06
Lab ID:	185558-007	Cleanup Method:	EPA 3630C
Batch#:	111662		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	93	65-135

Field ID:	979GW116	Prepared:	03/24/06
Type:	SAMPLE	Analyzed:	03/26/06
Lab ID:	185558-008	Cleanup Method:	EPA 3630C
Batch#:	111662		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	94	65-135

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/14/06
Units:	ug/L	Received:	03/15/06
Diln Fac:	1.000		

Field ID:	DUP0314061A	Prepared:	03/24/06
Type:	SAMPLE	Analyzed:	03/26/06
Lab ID:	185558-009	Cleanup Method:	EPA 3630C
Batch#:	111662		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	77	65-135

Field ID:	DAEGW03	Prepared:	03/24/06
Type:	SAMPLE	Analyzed:	03/26/06
Lab ID:	185558-011	Cleanup Method:	EPA 3630C
Batch#:	111662		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	87	65-135

Field ID:	DAEGW04	Prepared:	03/24/06
Type:	SAMPLE	Analyzed:	03/26/06
Lab ID:	185558-012	Cleanup Method:	EPA 3630C
Batch#:	111662		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	77	65-135

Field ID:	DAEGW05	Prepared:	03/24/06
Type:	SAMPLE	Analyzed:	03/26/06
Lab ID:	185558-013	Cleanup Method:	EPA 3630C
Batch#:	111662		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	82	65-135

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/14/06
Units:	ug/L	Received:	03/15/06
Diln Fac:	1.000		

Field ID:	DAEGW08	Prepared:	03/24/06
Type:	SAMPLE	Analyzed:	03/26/06
Lab ID:	185558-014	Cleanup Method:	EPA 3630C
Batch#:	111662		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	75	65-135

Field ID:	DAEGW103	Prepared:	03/24/06
Type:	SAMPLE	Analyzed:	03/26/06
Lab ID:	185558-015	Cleanup Method:	EPA 3630C
Batch#:	111662		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	88	65-135

Field ID:	600GW109	Prepared:	03/24/06
Type:	SAMPLE	Analyzed:	03/26/06
Lab ID:	185558-016	Cleanup Method:	EPA 3630C
Batch#:	111662		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	85	65-135

Field ID:	1065MW102	Prepared:	03/24/06
Type:	SAMPLE	Analyzed:	03/26/06
Lab ID:	185558-017	Cleanup Method:	EPA 3630C
Batch#:	111662		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	88	65-135

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/14/06
Units:	ug/L	Received:	03/15/06
Diln Fac:	1.000		

Field ID:	1065PZ1A	Prepared:	03/24/06
Type:	SAMPLE	Analyzed:	03/26/06
Lab ID:	185558-018	Cleanup Method:	EPA 3630C
Batch#:	111662		

Analyte	Result	RL
Diesel C12-C24	58 Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	93	65-135

Field ID:	231PZ04	Prepared:	03/24/06
Type:	SAMPLE	Analyzed:	03/27/06
Lab ID:	185558-019	Cleanup Method:	EPA 3630C
Batch#:	111662		

Analyte	Result	RL
Diesel C12-C24	350 Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	86	65-135

Field ID:	231PZ03	Prepared:	03/25/06
Type:	SAMPLE	Analyzed:	03/27/06
Lab ID:	185558-020	Cleanup Method:	EPA 3630
Batch#:	111685		

Analyte	Result	RL
Diesel C12-C24	200 Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	106	65-135

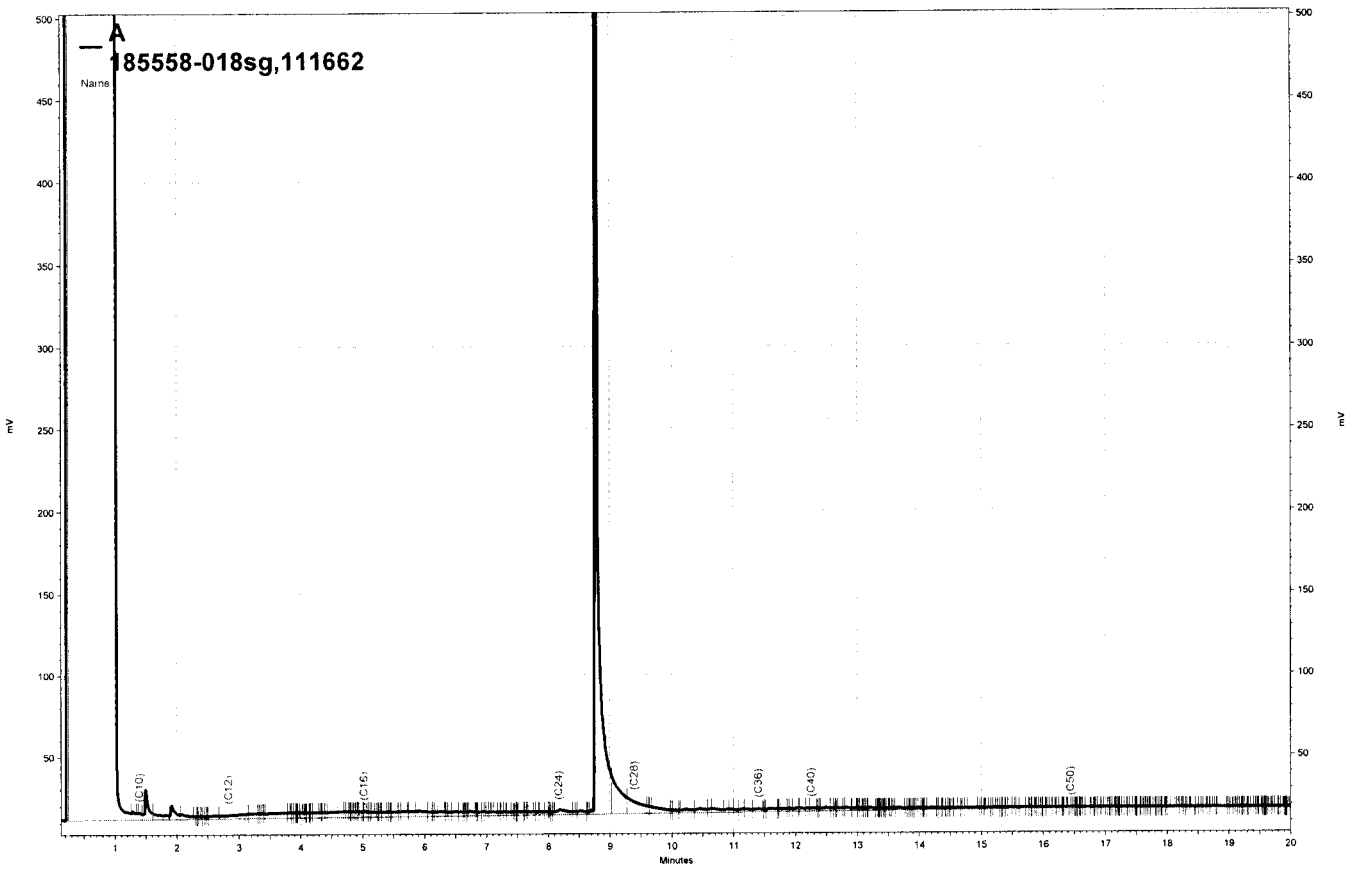
Field ID:	937GW07	Prepared:	03/25/06
Type:	SAMPLE	Analyzed:	03/27/06
Lab ID:	185558-021	Cleanup Method:	EPA 3630
Batch#:	111685		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	102	65-135

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

1065PZ1A



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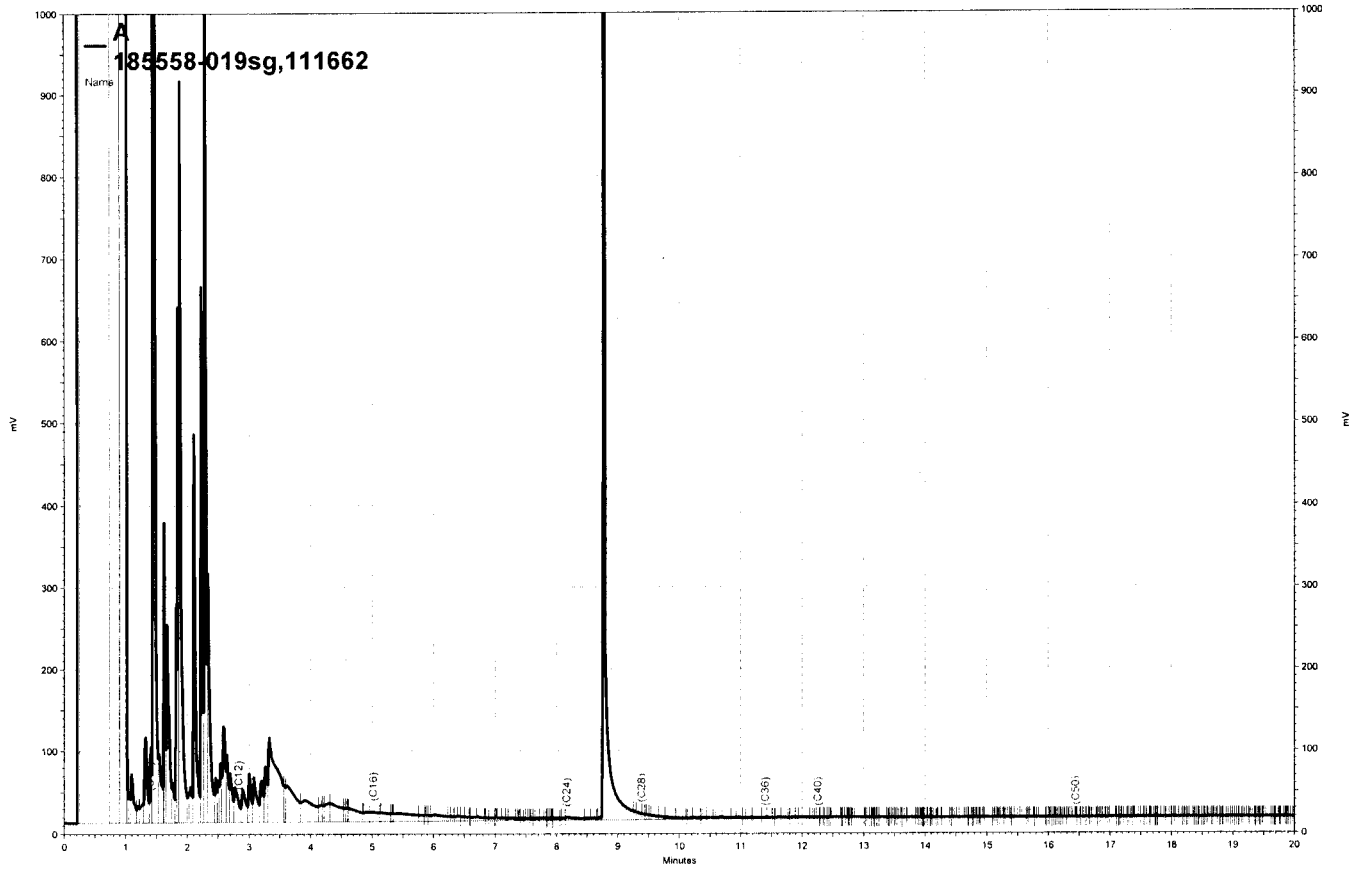
231 PZ04



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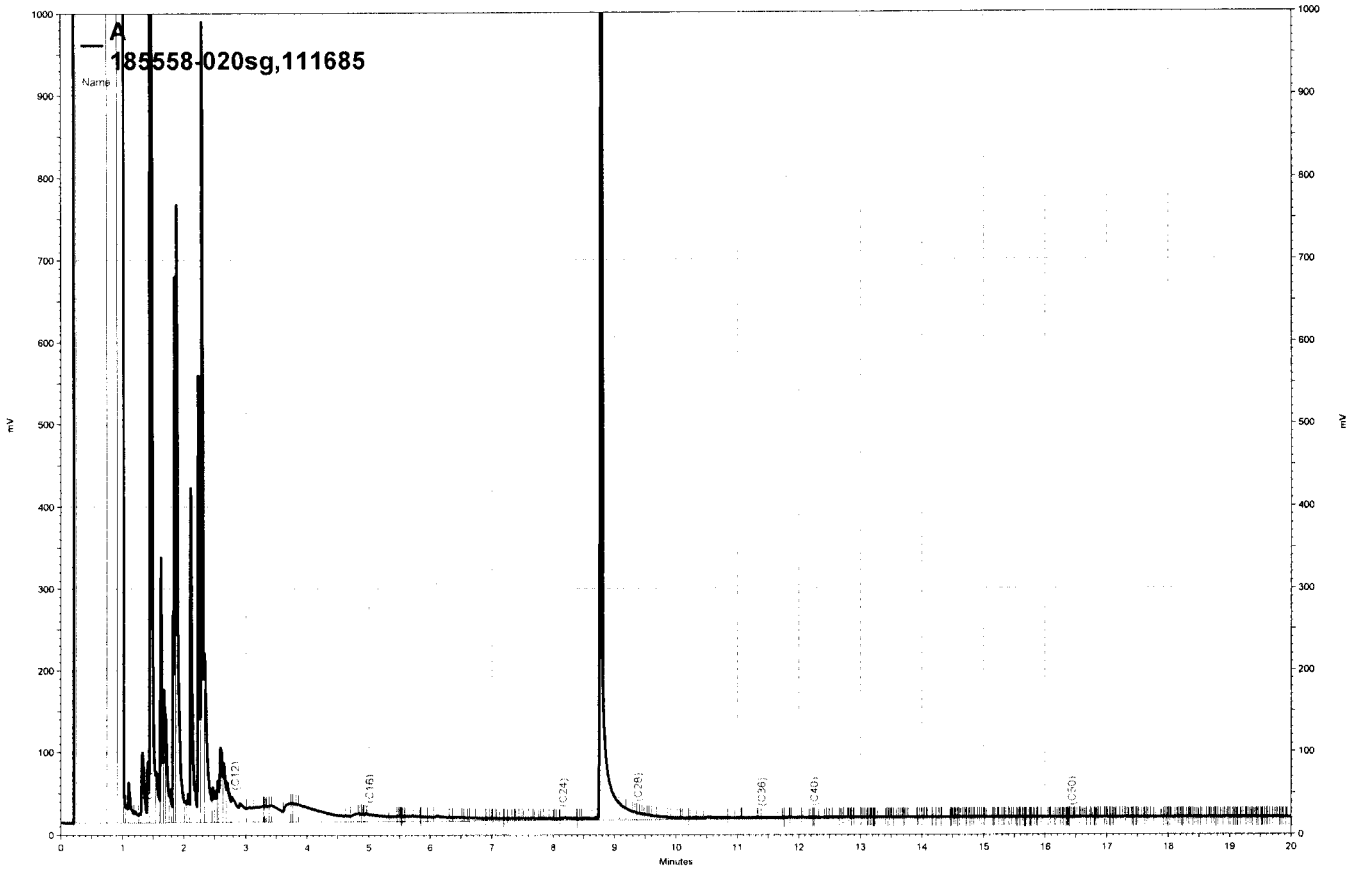
231 PZ03



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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/14/06
Units:	ug/L	Received:	03/15/06
Diln Fac:	1.000		

Field ID:	231PZ01	Prepared:	03/25/06
Type:	SAMPLE	Analyzed:	03/27/06
Lab ID:	185558-022	Cleanup Method:	EPA 3630
Batch#:	111685		

Analyte	Result	RL
Diesel C12-C24	360 Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	112	65-135

Field ID:	937GW06	Prepared:	03/25/06
Type:	SAMPLE	Analyzed:	03/27/06
Lab ID:	185558-023	Cleanup Method:	EPA 3630
Batch#:	111685		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	113	65-135

Field ID:	937GW42	Prepared:	03/25/06
Type:	SAMPLE	Analyzed:	03/27/06
Lab ID:	185558-024	Cleanup Method:	EPA 3630
Batch#:	111685		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	117	65-135

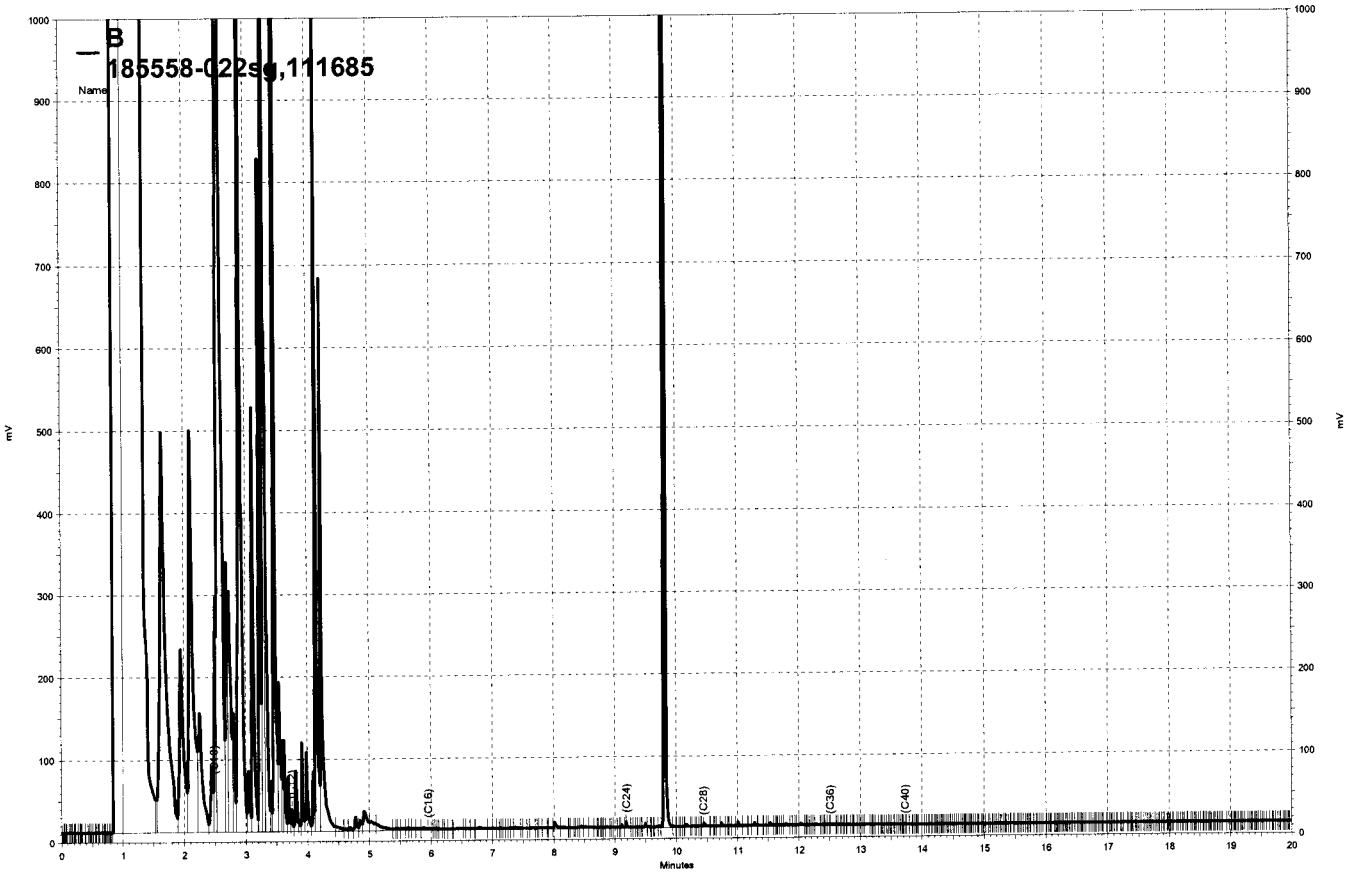
Field ID:	937GW32R	Prepared:	03/25/06
Type:	SAMPLE	Analyzed:	03/27/06
Lab ID:	185558-025	Cleanup Method:	EPA 3630
Batch#:	111685		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	119	65-135

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

231PZ01



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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/14/06
Units:	ug/L	Received:	03/15/06
Diln Fac:	1.000		

Field ID:	231GW15	Prepared:	03/25/06
Type:	SAMPLE	Analyzed:	03/27/06
Lab ID:	185558-026	Cleanup Method:	EPA 3630
Batch#:	111685		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	114	65-135

Field ID:	231GW13	Prepared:	03/25/06
Type:	SAMPLE	Analyzed:	03/27/06
Lab ID:	185558-027	Cleanup Method:	EPA 3630
Batch#:	111685		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	105	65-135

Type:	BLANK	Prepared:	03/24/06
Lab ID:	QC332978	Analyzed:	03/26/06
Batch#:	111662	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	81	65-135

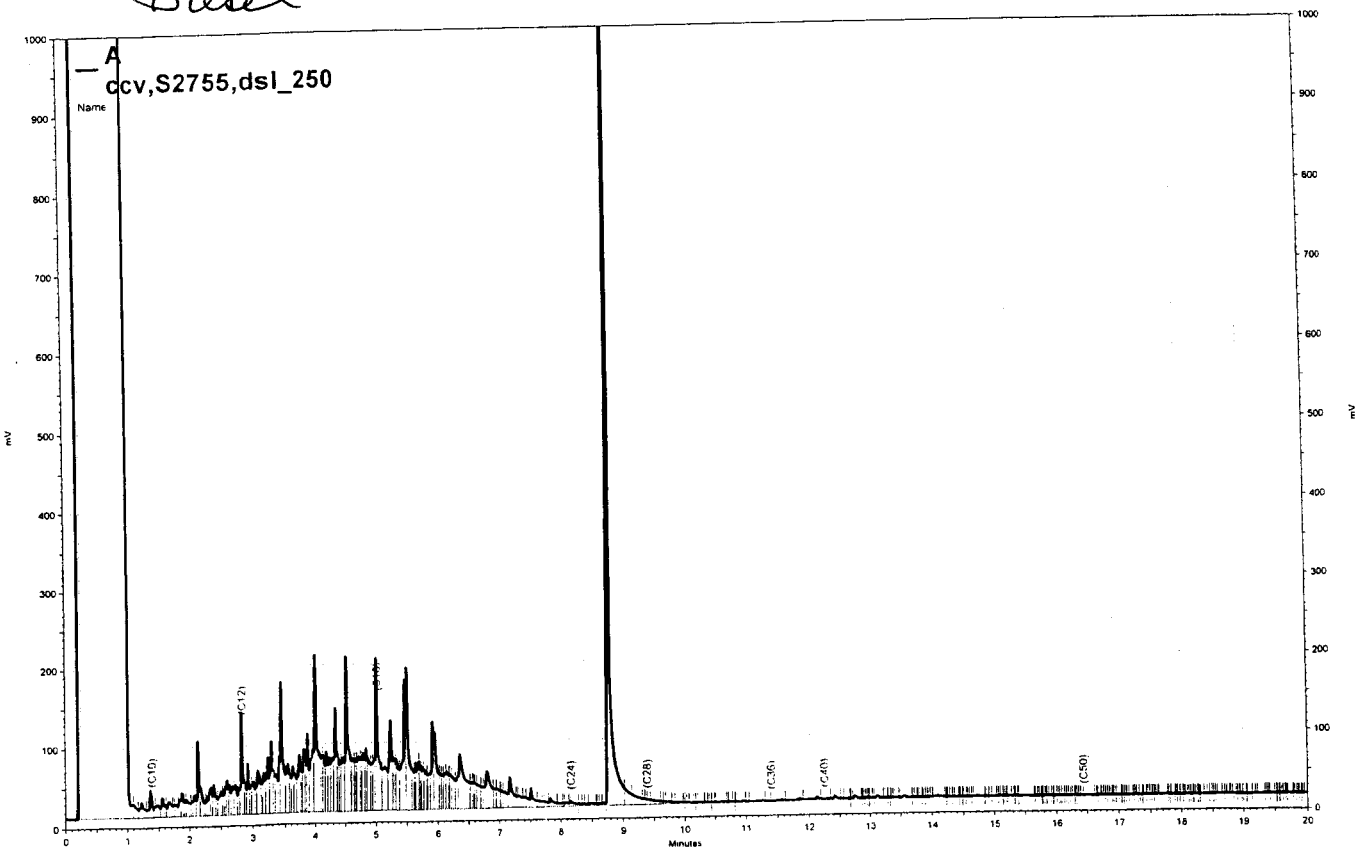
Type:	BLANK	Prepared:	03/25/06
Lab ID:	QC333047	Analyzed:	03/27/06
Batch#:	111685	Cleanup Method:	EPA 3630

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	104	65-135

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Diesel



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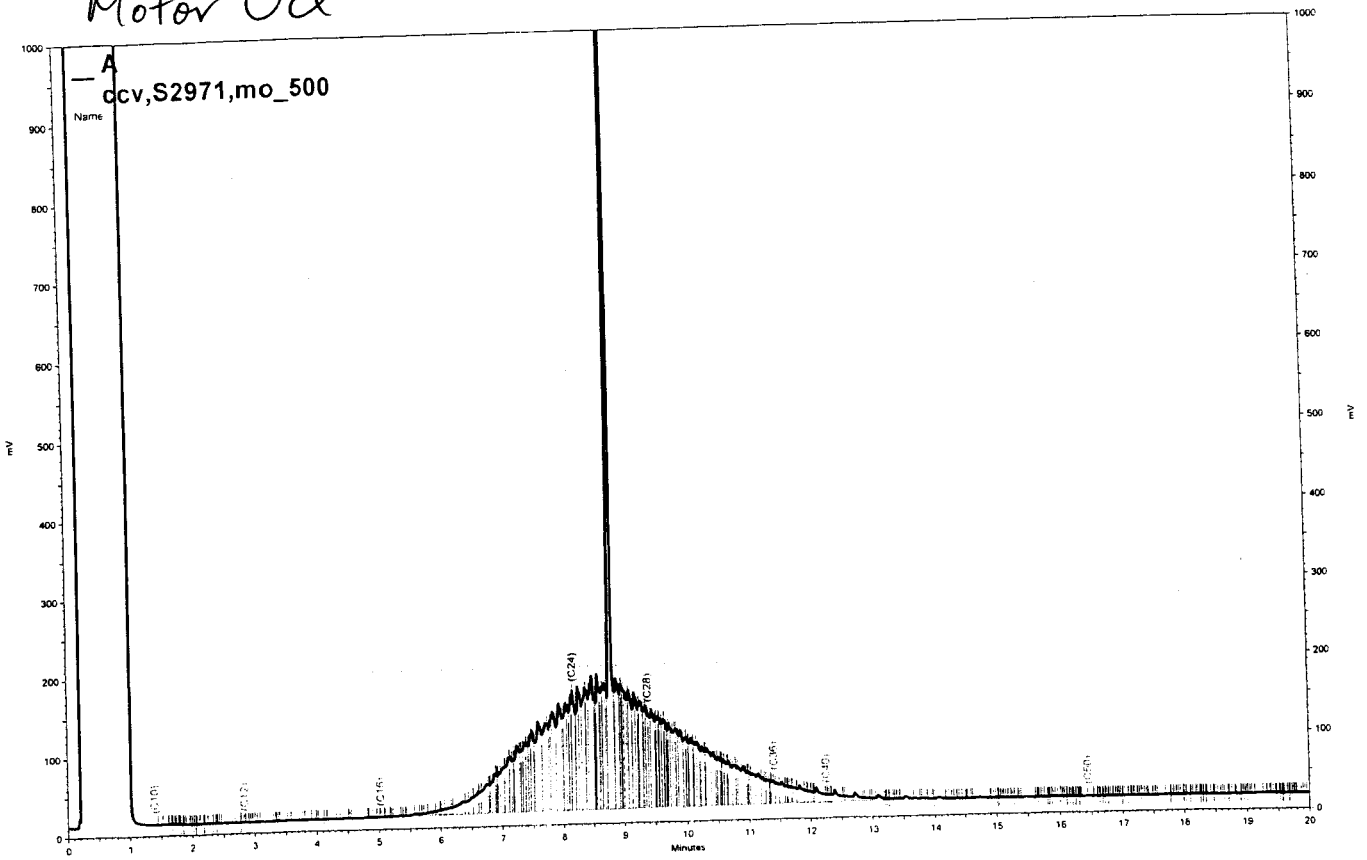
Motor Oil



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Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	111662
Units:	ug/L	Prepared:	03/24/06
Diln Fac:	1.000	Analyzed:	03/26/06

Type: BS Cleanup Method: EPA 3630C
Lab ID: QC332979

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	2,500	2,155	86	65-135

Surrogate	%REC	Limits
Hexacosane	85	65-135

Type: BSD Cleanup Method: EPA 3630C
Lab ID: QC332980

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,155	86	65-135	0	35

Surrogate	%REC	Limits
Hexacosane	84	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	111685
Units:	ug/L	Prepared:	03/25/06
Diln Fac:	1.000	Analyzed:	03/27/06

Type: BS Cleanup Method: EPA 3630
Lab ID: QC333048

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	2,500	2,574	103	65-135

Surrogate	%REC	Limits
Hexacosane	101	65-135

Type: BSD Cleanup Method: EPA 3630
Lab ID: QC333049

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,420	97	65-135	6	35

Surrogate	%REC	Limits
Hexacosane	96	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185558 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 115446255001
Units : mg/L

Name : Hexacosane
Date : 05-NOV-2005 21:35
X Axis : R

Reviewer: RH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	309a006	115446255006	hex_5	05-NOV-2005 21:35	S1469
L2	309a007	115446255007	hex_10	05-NOV-2005 22:02	S1470
L3	309a008	115446255008	hex_25	05-NOV-2005 22:30	S1471
L4	309a009	115446255009	hex_50	05-NOV-2005 22:58	S1472
L5	309a010	115446255010	hex_75	05-NOV-2005 23:25	S1473

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	78300	78621	78154	81971	77951	AVRG		1.27E-5		78999	2	0.995	20	

64

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

115446255001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185558 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 115446255002
Units : mg/L

Name : DIESEL
Date : 05-NOV-2005 23:53
X Axis : R

Reviewer: RH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	309a011	115446255011	dsl_10	05-NOV-2005 23:53	S1732
L2	309a013	115446255013	dsl_250	06-NOV-2005 00:49	S1734
L3	309a014	115446255014	dsl_500	06-NOV-2005 01:17	S1735
L4	309a015	115446255015	dsl_1000	06-NOV-2005 01:45	S1736
L5	309a016	115446255016	dsl_2500	06-NOV-2005 02:12	S1737
L6	309a017	115446255017	dsl_5000	06-NOV-2005 02:40	S1731
L7	309a039	115446255039	dsl_100	06-NOV-2005 22:23	S1733

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	66564	67471	67989	68804	69120	69411	70464	AVRG		1.46E-5		68546	2	0.995	20	

65

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

115446255002

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185558 GCSV Water
EPA 8015B

Inst : GC11A
Calnum : 115446255002

Name : DIESEL
Cal Date: 05-NOV-2005

ICV 115446255040 (309a040 06-NOV-2005) stds: S1178

Analyte	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	500.0	498.6	mg/L	0	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185558 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 116049801004
Units : mg/L

Date : 04-FEB-2006 00:18
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	034a023	116049801023	mo_50	04-FEB-2006 00:18	S2118
L2	034a024	116049801024	mo_250	04-FEB-2006 00:46	S2119
L3	034a025	116049801025	mo_500	04-FEB-2006 01:14	S2120
L4	034a026	116049801026	mo_1000	04-FEB-2006 01:42	S2121
L5	034a027	116049801027	mo_2500	04-FEB-2006 02:10	S2122
L6	034a028	116049801028	mo_5000	04-FEB-2006 02:39	S2117

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	40103	42997	43448	44594	44247	45696	AVRG		2.30E-5		43514	4	0.995	20	

67

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

116049801004

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185558 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166114247001
Units : mg/L

Date : 20-MAR-2006 14:52
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	079b007	166114247007	hex_5	20-MAR-2006 14:52	S2694
L2	079b008	166114247008	hex_10	20-MAR-2006 15:20	S2695
L3	079b009	166114247009	hex_25	20-MAR-2006 15:49	S2696
L4	079b010	166114247010	hex_50	20-MAR-2006 16:17	S2697
L5	079b011	166114247011	hex_75	20-MAR-2006 16:45	S2698

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	64028	62636	61750	60993	60763	AVRG		1.61E-5		62034	2	0.995	20	

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185558 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166115824002
Units : mg/L

Date : 21-MAR-2006 14:52
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	080b006	166115824006	mo_50	21-MAR-2006 14:52	S2118
L2	080b007	166115824007	mo_250	21-MAR-2006 15:20	S2119
L3	080b008	166115824008	mo_500	21-MAR-2006 15:49	S2120
L4	080b009	166115824009	mo_1000	21-MAR-2006 16:17	S2121
L5	080b010	166115824010	mo_2500	21-MAR-2006 16:46	S2122
L6	080b011	166115824011	mo_5000	21-MAR-2006 17:15	S2117

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	35689	35718	36071	34029	27094	20672	AVRG		3.17E-5		31546	20	0.995	20	

69

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

166115824002

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185558 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166117087001
Units : mg/L

Date : 22-MAR-2006 12:39
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	081b006	166117087006	dsl_10	22-MAR-2006 12:39	S2961
L2	081b007	166117087007	dsl_100	22-MAR-2006 13:07	S2938
L3	081b008	166117087008	dsl_250	22-MAR-2006 13:34	S2939
L4	081b009	166117087009	dsl_500	22-MAR-2006 14:02	S2940
L5	081b010	166117087010	dsl_1000	22-MAR-2006 14:30	S2941
L6	081b011	166117087011	dsl_2500	22-MAR-2006 14:57	S2942
L7	081b012	166117087012	dsl_5000	22-MAR-2006 15:25	S2936

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	60107	59785	55253	54313	53973	54874	53381	AVRG		1.79E-5		55955	5	0.995	20	

70

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

166117087001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185558 GCSV Water
EPA 8015B

Inst : GC15B
Calnum : 166117087001 Cal Date: 22-MAR-2006

ICV 166117087014 (081b014 22-MAR-2006) stds: S2708

Analyte	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	500.0	480.4	mg/L	-4	

CONTINUING CALIBRATION SUMMARY FOR 185558 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116123376004	26-MAR-2006 17:39	115446255002	05-NOV-2005	68546	60164	250.00	219.43	mg/L	-12	15	
GC11A	A	116123376017	26-MAR-2006 23:59	115446255002	05-NOV-2005	68546	63846	1000.0	931.43	mg/L	-7	15	
GC11A	A	116123376032	27-MAR-2006 06:58	115446255002	05-NOV-2005	68546	61387	250.00	223.89	mg/L	-10	15	
GC15B	B	166123373003	26-MAR-2006 17:08	166117087001	22-MAR-2006	55955	54953	500.00	491.05	mg/L	-2	15	
GC15B	B	166123373016	26-MAR-2006 23:41	166117087001	22-MAR-2006	55955	52528	1000.0	938.75	mg/L	-6	15	
GC15B	B	166123373030	27-MAR-2006 06:09	166117087001	22-MAR-2006	55955	53869	500.00	481.36	mg/L	-4	15	

CONTINUING CALIBRATION SUMMARY FOR 185558 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116123376003	26-MAR-2006 17:11	116049801004	04-FEB-2006	43514	38064	500.00	437.37	mg/L	-13	15	
GC11A	A	116123376016	26-MAR-2006 23:31	116049801004	04-FEB-2006	43514	38866	500.00	446.59	mg/L	-11	15	
GC11A	A	116123376031	27-MAR-2006 06:30	116049801004	04-FEB-2006	43514	38531	500.00	442.74	mg/L	-11	15	
GC15B	B	166123373004	26-MAR-2006 17:35	166115824002	21-MAR-2006	31546	31525	500.00	499.68	mg/L	0	15	
GC15B	B	166123373017	27-MAR-2006 00:09	166115824002	21-MAR-2006	31546	29865	500.00	473.37	mg/L	-5	15	
GC15B	B	166123373031	27-MAR-2006 06:37	166115824002	21-MAR-2006	31546	31729	500.00	502.90	mg/L	1	15	

CONTINUING CALIBRATION SUMMARY FOR 185558 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116123376003	26-MAR-2006 17:11	115446255001	05-NOV-2005	78999	69202	50.000	43.799	mg/L	-12	15	
GC11A	A	116123376016	26-MAR-2006 23:31	115446255001	05-NOV-2005	78999	70729	50.000	44.766	mg/L	-10	15	
GC11A	A	116123376031	27-MAR-2006 06:30	115446255001	05-NOV-2005	78999	69588	50.000	44.044	mg/L	-12	15	
GC15B	B	166123373003	26-MAR-2006 17:08	166114247001	20-MAR-2006	62034	64657	50.000	52.114	mg/L	4	15	
GC15B	B	166123373016	26-MAR-2006 23:41	166114247001	20-MAR-2006	62034	55694	50.000	44.889	mg/L	-10	15	
GC15B	B	166123373030	27-MAR-2006 06:09	166114247001	20-MAR-2006	62034	65649	50.000	52.914	mg/L	6	15	

SEQUENCE SUMMARY FOR 185558 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 115446255 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 05-NOV-2005
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
003	309a003	X	c12-60			05-NOV-2005 20:11	1.0						
004	309a004	X	c50			05-NOV-2005 20:39	1.0						
005	309a005	X	ib			05-NOV-2005 21:07	1.0						
006	309a006	ICAL	hex_5			05-NOV-2005 21:35	1.0					1	
007	309a007	ICAL	hex_10			05-NOV-2005 22:02	1.0					2	
008	309a008	ICAL	hex_25			05-NOV-2005 22:30	1.0					3	
009	309a009	ICAL	hex_50			05-NOV-2005 22:58	1.0					4	
010	309a010	ICAL	hex_75			05-NOV-2005 23:25	1.0					5	
011	309a011	ICAL	dsl_10			05-NOV-2005 23:53	1.0					6	
013	309a013	ICAL	dsl_250			06-NOV-2005 00:49	1.0					7	
014	309a014	ICAL	dsl_500			06-NOV-2005 01:17	1.0					8	
015	309a015	ICAL	dsl_1000			06-NOV-2005 01:45	1.0					9	
016	309a016	ICAL	dsl_2500			06-NOV-2005 02:12	1.0					10	
017	309a017	ICAL	dsl_5000			06-NOV-2005 02:40	1.0					11	
039	309a039	ICAL	dsl_100			06-NOV-2005 22:23	1.0					12	75
040	309a040	ICV	dsl			06-NOV-2005 23:18	1.0		3			13	
041	309a041	ICAL	mo_50			06-NOV-2005 23:46	1.0					14	
042	309a042	ICAL	mo_250			07-NOV-2005 00:14	1.0					15	
043	309a043	ICAL	mo_500			07-NOV-2005 00:42	1.0					16	
044	309a044	ICAL	mo_1000			07-NOV-2005 01:10	1.0					17	
045	309a045	ICAL	mo_2500			07-NOV-2005 01:38	1.0					18	
046	309a046	ICAL	mo_5000			07-NOV-2005 02:06	1.0					19	

Stds used: 1=S1469 2=S1470 3=S1471 4=S1472 5=S1473 6=S1732 7=S1734 8=S1735 9=S1736 10=S1737 11=S1731 12=S1733 13=S1178 14=S693 15=S694 16=S695 17=S696 18=S697 19=S691

SEQUENCE SUMMARY FOR 185558 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116049801 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 03-FEB-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	034a001	X	primer			03-FEB-2006 14:01	1.0							
002	034a002	X	ib			03-FEB-2006 14:29	1.0							
003	034a003	CCV	dsl_250			03-FEB-2006 14:57	1.0			3			1	
004	034a004	X	ib			03-FEB-2006 15:25	1.0							
005	034a005	CCV	mo_500			03-FEB-2006 15:53	1.0	6		3			2	
006	034a006	?SAMPLE	184620-007			03-FEB-2006 16:21	1.0							
007	034a007	?SAMPLE	184620-008			03-FEB-2006 16:49	1.0							
008	034a008	?SAMPLE	184620-009			03-FEB-2006 17:17	1.0							
009	034a009	?SAMPLE	184620-010			03-FEB-2006 17:45	1.0							
010	034a010	X	ib			03-FEB-2006 18:13	1.0							
011	034a011	?SAMPLE	184620-006			03-FEB-2006 18:41	1.0							
012	034a012	?SAMPLE	184620-004			03-FEB-2006 19:09	1.0							
013	034a013	?SAMPLE	184620-005			03-FEB-2006 19:37	1.0							
014	034a014	X	ib			03-FEB-2006 20:05	1.0							
015	034a015	?SAMPLE	184620-001			03-FEB-2006 20:33	1.0							
016	034a016	?SAMPLE	184620-002			03-FEB-2006 21:01	1.0							
017	034a017	?SAMPLE	184620-003			03-FEB-2006 21:29	1.0							
018	034a018	X	ib			03-FEB-2006 21:57	1.0							
019	034a019	CCV	dsl_500			03-FEB-2006 22:25	1.0						3	
020	034a020	X	ib			03-FEB-2006 22:54	1.0							
021	034a021	X	ib			03-FEB-2006 23:22	1.0							
022	034a022	X	ib			03-FEB-2006 23:50	1.0							
023	034a023	ICAL	mo_50			04-FEB-2006 00:18	1.0						4	
024	034a024	ICAL	mo_250			04-FEB-2006 00:46	1.0						5	
025	034a025	ICAL	mo_500			04-FEB-2006 01:14	1.0						6	
026	034a026	ICAL	mo_1000			04-FEB-2006 01:42	1.0						7	
027	034a027	ICAL	mo_2500			04-FEB-2006 02:10	1.0						8	
028	034a028	ICAL	mo_5000			04-FEB-2006 02:39	1.0						9	
029	034a029	X	ib			04-FEB-2006 03:07	1.0							

Stds used: 1=S2505 2=S2577 3=S2504 4=S2118 5=S2119 6=S2120 7=S2121 8=S2122 9=S2117

SEQUENCE SUMMARY FOR 185558 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166114247 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	079b001	X	primer			20-MAR-2006 08:07	1.0					
002	079b002	X	ib			20-MAR-2006 08:34	1.0					
003	079b003	CCV	dsl_500			20-MAR-2006 09:02	1.0	1.0		3	1	
004	079b004	CCV	mo_500			20-MAR-2006 11:26	1.0				2	
005	079b005	CCV	dsl_500			20-MAR-2006 11:53	1.0				1	
006	079b006	X	ib			20-MAR-2006 14:24	1.0					
007	079b007	ICAL	hex_5			20-MAR-2006 14:52	1.0	1.0			3	
008	079b008	ICAL	hex_10			20-MAR-2006 15:20	1.0	1.0			4	
009	079b009	ICAL	hex_25			20-MAR-2006 15:49	1.0	1.0			5	
010	079b010	ICAL	hex_50			20-MAR-2006 16:17	1.0	1.0			6	
011	079b011	ICAL	hex_75			20-MAR-2006 16:45	1.0	1.0			7	
012	079b012	CCV	dsl_1000			20-MAR-2006 17:14	1.0	1.0		3	8	
013	079b013	CCV	mo_500			20-MAR-2006 17:42	1.0	1.0		3	2	
014	079b014	SAMPLE	185385-001 S	111346	Water	20-MAR-2006 18:23	1.0	0.005		3		
015	079b015	SAMPLE	185385-002 S	111346	Water	20-MAR-2006 18:52	1.0	0.005		3		77
016	079b016	SAMPLE	185385-003 S	111346	Water	20-MAR-2006 19:20	1.0	0.005		3		
017	079b017	SAMPLE	185385-004 S	111346	Water	20-MAR-2006 19:48	1.0	0.005		3		
018	079b018	SAMPLE	185385-005 S	111346	Water	20-MAR-2006 20:16	1.0	0.005		3		
019	079b019	X	ib			20-MAR-2006 20:45	1.0					
020	079b020	SAMPLE	185385-006 S	111346	Water	20-MAR-2006 21:13	1.0	0.005		3		
021	079b021	SAMPLE	185385-007 S	111346	Water	20-MAR-2006 21:41	1.0	0.005		3		
022	079b022	SAMPLE	185385-008 S	111346	Water	20-MAR-2006 22:09	1.0	0.005		3		
023	079b023	SAMPLE	185385-009 S	111346	Water	20-MAR-2006 22:37	1.0	0.005		3		
024	079b024	SAMPLE	185385-011 S	111346	Water	20-MAR-2006 23:05	1.0	0.005		3		
025	079b025	X	ib			20-MAR-2006 23:33	1.0					
026	079b026	X	ib			21-MAR-2006 00:01	1.0					
027	079b027	CCV	dsl_250			21-MAR-2006 00:29	1.0	1.0		3	9	
028	079b028	CCV	mo_500			21-MAR-2006 00:57	1.0	1.0	3	3	2	
029	079b029	X	ccv			21-MAR-2006 01:25	1.0				2	
030	079b030	X	ccv			21-MAR-2006 01:52	1.0				9	
031	079b031	SAMPLE	185414-001 S	111437	Water	21-MAR-2006 02:20	1.0	0.005		3		

Stds used: 1=S2871 2=S2843 3=S2694 4=S2695 5=S2696 6=S2697 7=S2698 8=S2885 9=S2755

SEQUENCE SUMMARY FOR 185558 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166114247 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	079b032	SAMPLE	185525-004 S	111348	Water	21-MAR-2006 02:48	1.0	0.005		3		
033	079b033	SAMPLE	185525-001 S	111348	Water	21-MAR-2006 03:15	1.0	0.005		3		
034	079b034	SAMPLE	185525-005 S	111348	Water	21-MAR-2006 03:43	1.0	0.005		3		
035	079b035	SAMPLE	185525-008 S	111348	Water	21-MAR-2006 04:11	1.0	0.005		3		
036	079b036	SAMPLE	185525-011 S	111348	Water	21-MAR-2006 04:38	1.0	0.005		3		
037	079b037	SAMPLE	185525-007 S	111348	Water	21-MAR-2006 05:06	1.0	0.005		3		
038	079b038	SAMPLE	185525-010 S	111348	Water	21-MAR-2006 05:34	1.0	0.005		3		
039	079b039	SAMPLE	185525-012 S	111348	Water	21-MAR-2006 06:02	1.0	0.005		3		
040	079b040	X	ib			21-MAR-2006 06:30	1.0					
041	079b041	CCV	dsl_1000			21-MAR-2006 06:57	1.0	1.0	7	3	8	
042	079b042	CCV	mo_500			21-MAR-2006 07:25	1.0	1.0	4	3	2	
043	079b043	X	ccv			21-MAR-2006 07:53	1.0				2	
044	079b044	X	ccv			21-MAR-2006 08:20	1.0				8	

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Stds used: 1=S2871 2=S2843 3=S2694 4=S2695 5=S2696 6=S2697 7=S2698 8=S2885 9=S2755

SEQUENCE SUMMARY FOR 185558 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166115824 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 21-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	080b001	ICAL	dsl_10			21-MAR-2006 10:24	1.0					1	
002	080b002	X	ib			21-MAR-2006 11:50	1.0						
003	080b003	CCV	dsl_500			21-MAR-2006 12:18	1.0	1.0			3	2	
004	080b004	CCV	mo_500			21-MAR-2006 12:46	1.0	1.0	2		3	3	
005	080b005	X	ib			21-MAR-2006 14:24	1.0						
006	080b006	ICAL	mo_50			21-MAR-2006 14:52	1.0	1.0				4	
007	080b007	ICAL	mo_250			21-MAR-2006 15:20	1.0	1.0				5	
008	080b008	ICAL	mo_500			21-MAR-2006 15:49	1.0	1.0				6	
009	080b009	ICAL	mo_1000			21-MAR-2006 16:17	1.0	1.0				7	
010	080b010	ICAL	mo_2500			21-MAR-2006 16:46	1.0	1.0				8	
011	080b011	ICAL	mo_5000			21-MAR-2006 17:15	1.0	1.0				9	
012	080b012	X	ib			21-MAR-2006 17:52	1.0						
013	080b013	CCV	dsl_1000			21-MAR-2006 18:21	1.0	1.0			3	10	
014	080b014	X	mo_500			21-MAR-2006 18:49	1.0	1.0	3		3	3	
015	080b015	CCV	mo_500			21-MAR-2006 19:27	1.0	1.0	2		3	11	79
016	080b016	SAMPLE	185580-002	111477	Water	21-MAR-2006 21:34	1.0	0.005			3		
017	080b017	SAMPLE	185580-010	111477	Water	21-MAR-2006 22:02	1.0	0.005			3		
018	080b018	SAMPLE	185457-011 S	111478	Water	21-MAR-2006 22:30	1.0	0.005			3		
019	080b019	SAMPLE	185457-012 S	111478	Water	21-MAR-2006 22:58	1.0	0.005			3		
020	080b020	SAMPLE	185457-013 S	111478	Water	21-MAR-2006 23:26	1.0	0.005			3		
021	080b021	SAMPLE	185457-014 S	111478	Water	21-MAR-2006 23:54	1.0	0.005			3		
022	080b022	MSS	185457-016 S	111478	Water	22-MAR-2006 00:22	1.0	0.005	8		3		
023	080b023	SAMPLE	185457-017 S	111478	Water	22-MAR-2006 00:50	1.0	0.005			3		
024	080b024	SAMPLE	185457-019 S	111478	Water	22-MAR-2006 01:18	1.0	0.005			3		
025	080b025	MSS	185457-020 S	111478	Water	22-MAR-2006 01:46	1.0	0.005	8		3		
026	080b026	X	ib			22-MAR-2006 02:14	1.0						
027	080b027	CCV	dsl_250			22-MAR-2006 02:41	1.0	1.0			3	12	
028	080b028	CCV	mo_500			22-MAR-2006 03:09	1.0	1.0	2		3	13	
029	080b029	X	ccv			22-MAR-2006 03:37	1.0					12	
030	080b030	X	ccv			22-MAR-2006 04:05	1.0					13	

Stds used: 1=S2964 2=S2871 3=S2843 4=S2118 5=S2119 6=S2120 7=S2121 8=S2122 9=S2117 10=S2885 11=S2972 12=S2755 13=S2971

SEQUENCE SUMMARY FOR 185558 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166117087 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	081b001	X	primer			22-MAR-2006 07:27	1.0					
002	081b002	X	ib			22-MAR-2006 07:55	1.0					
003	081b003	CCV	dsl_500			22-MAR-2006 08:27	1.0	1.0	6	3	1	
004	081b004	CCV	mo_500			22-MAR-2006 08:55	1.0	1.0	2	3	2	
005	081b005	X	ib			22-MAR-2006 12:12	1.0					
006	081b006	ICAL	dsl_10			22-MAR-2006 12:39	1.0	1.0			3	
007	081b007	ICAL	dsl_100			22-MAR-2006 13:07	1.0	1.0			4	
008	081b008	ICAL	dsl_250			22-MAR-2006 13:34	1.0	1.0			5	
009	081b009	ICAL	dsl_500			22-MAR-2006 14:02	1.0	1.0			6	
010	081b010	ICAL	dsl_1000			22-MAR-2006 14:30	1.0	1.0			7	
011	081b011	ICAL	dsl_2500			22-MAR-2006 14:57	1.0	1.0			8	
012	081b012	ICAL	dsl_5000			22-MAR-2006 15:25	1.0	1.0			9	
013	081b013	X	ib			22-MAR-2006 15:53	1.0					
014	081b014	ICV	dsl_500			22-MAR-2006 16:21	1.0	1.0		3	10	
015	081b015	X	ib			22-MAR-2006 16:49	1.0					80
016	081b016	CCV	dsl_500			22-MAR-2006 17:17	1.0	1.0		3	1	
017	081b017	CCV	mo_500			22-MAR-2006 17:45	1.0	1.0	2	3	2	
018	081b018	CCV	ker_250			22-MAR-2006 18:43	1.0	1.0		3	11	
019	081b019	LCS	QC332247 S	111483	Soil	22-MAR-2006 19:18	1.0	0.09921		3		
020	081b020	BLANK	QC332246 S	111483	Soil	22-MAR-2006 19:45	1.0	0.1007	7	3		
021	081b021	MSS	185620-003 S	111483	Soil	22-MAR-2006 20:13	1.0	0.1001	9	3		
022	081b022	MS	QC332248 S	111483	Soil	22-MAR-2006 20:41	1.0	0.1006		3		
023	081b023	MSD	QC332249 S	111483	Soil	22-MAR-2006 21:09	1.0	0.1004		3		
024	081b024	X	ib			22-MAR-2006 21:37	1.0					
025	081b025	SAMPLE	185463-003 S	111513	Water	22-MAR-2006 22:05	1.0	0.005		3		
026	081b026	SAMPLE	185463-004 S	111513	Water	22-MAR-2006 22:33	1.0	0.005		3		
027	081b027	SAMPLE	185639-002	111483	Soil	22-MAR-2006 23:01	1.0	0.1002		3		
028	081b028	SAMPLE	185640-001	111483	Soil	22-MAR-2006 23:29	3.0	0.09974	3	3	19:BUNKC:=35667.6	
029	081b029	SAMPLE	185640-002	111483	Soil	22-MAR-2006 23:57	20.0	0.2001	2	3	12:BUNKC:=30917.1	
030	081b030	X	ib			23-MAR-2006 00:24	1.0					
031	081b031	CCV	dsl_1000			23-MAR-2006 00:52	1.0	1.0		3	12	

Stds used: 1=S2871 2=S2971 3=S2961 4=S2938 5=S2939 6=S2940 7=S2941 8=S2942 9=S2936 10=S2708 11=S2806 12=S2885

SEQUENCE SUMMARY FOR 185558 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166117087 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	081b032	CCV	mo_500			23-MAR-2006 01:20	1.0	1.0	2		3	2	
033	081b033	X	ccv			23-MAR-2006 01:48	1.0					12	
034	081b034	CCV	ker_250			23-MAR-2006 02:16	1.0	1.0			3	11	

Stds used: 1=S2871 2=S2971 3=S2961 4=S2938 5=S2939 6=S2940 7=S2941 8=S2942 9=S2936 10=S2708 11=S2806 12=S2885

SEQUENCE SUMMARY FOR 185558 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116123376 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 26-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	085a001	X	primer			26-MAR-2006 16:16	1.0					
002	085a002	X	ib			26-MAR-2006 16:44	1.0					
003	085a003	CCV	mo_500			26-MAR-2006 17:11	1.0	1.0	1	3	1	
004	085a004	CCV	dsl_250			26-MAR-2006 17:39	1.0	1.0		3	2	
005	085a005	BS	QC332979 S	111662	Water	26-MAR-2006 18:23	1.0	0.005		3		
006	085a006	BSD	QC332980 S	111662	Water	26-MAR-2006 18:51	1.0	0.005		3		
007	085a007	BLANK	QC332978 S	111662	Water	26-MAR-2006 19:19	1.0	0.005		3		
008	085a008	SAMPLE	185558-012 S	111662	Water	26-MAR-2006 19:47	1.0	0.005		3		
009	085a009	SAMPLE	185558-013 S	111662	Water	26-MAR-2006 20:15	1.0	0.005		3		
010	085a010	SAMPLE	185558-014 S	111662	Water	26-MAR-2006 20:43	1.0	0.005		3		
011	085a011	SAMPLE	185558-015 S	111662	Water	26-MAR-2006 21:11	1.0	0.005		3		
012	085a012	SAMPLE	185558-016 S	111662	Water	26-MAR-2006 21:39	1.0	0.005		3		
013	085a013	SAMPLE	185558-017 S	111662	Water	26-MAR-2006 22:07	1.0	0.005		3		
014	085a014	SAMPLE	185558-018 S	111662	Water	26-MAR-2006 22:35	1.0	0.005		3		
015	085a015	X	ib			26-MAR-2006 23:03	1.0					
016	085a016	CCV	mo_500			26-MAR-2006 23:31	1.0	1.0		3	1	
017	085a017	CCV	dsl_1000			26-MAR-2006 23:59	1.0	1.0		3	3	
018	085a018	X	ccv			27-MAR-2006 00:27	1.0				1	
019	085a019	X	ccv			27-MAR-2006 00:55	1.0				3	
020	085a020	BS	QC333048 S	111685	Water	27-MAR-2006 01:23	1.0	0.005		3		
021	085a021	BSD	QC333049 S	111685	Water	27-MAR-2006 01:51	1.0	0.005		3		
022	085a022	BLANK	QC333047 S	111685	Water	27-MAR-2006 02:19	1.0	0.005		3		
023	085a023	SAMPLE	185558-019 S	111662	Water	27-MAR-2006 02:47	1.0	0.005		3		
024	085a024	SAMPLE	185651-001 S	111662	Water	27-MAR-2006 03:15	1.0	0.005		3		
025	085a025	SAMPLE	185651-002 S	111662	Water	27-MAR-2006 03:43	1.0	0.005		3		
026	085a026	SAMPLE	185562-001 S	111685	Water	27-MAR-2006 04:11	1.0	0.005		3		
027	085a027	SAMPLE	185562-002 S	111685	Water	27-MAR-2006 04:39	1.0	0.005		3		
028	085a028	SAMPLE	185558-020 S	111685	Water	27-MAR-2006 05:07	1.0	0.005		3		
029	085a029	SAMPLE	185558-021 S	111685	Water	27-MAR-2006 05:34	1.0	0.005		3		
030	085a030	X	ib			27-MAR-2006 06:02	1.0					
031	085a031	CCV	mo_500			27-MAR-2006 06:30	1.0	1.0		3	1	

Stds used: 1=S2971 2=S2755 3=S2885 4=S2871 5=S2432

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SEQUENCE SUMMARY FOR 185558 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116123376 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 26-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	085a032	CCV	dsl_250			27-MAR-2006 06:58	1.0	1.0			3	2	
033	085a033	X	ccv			27-MAR-2006 07:26	1.0					1	
034	085a034	SAMPLE	185674-004 S	111684	Water	27-MAR-2006 07:54	1.0	0.005			3		
035	085a035	SAMPLE	185674-005 S	111684	Water	27-MAR-2006 08:22	1.0	0.005			3		
036	085a036	SAMPLE	185674-006 S	111684	Water	27-MAR-2006 08:50	1.0	0.005			3		
037	085a037	SAMPLE	185693-001 S	111684	Water	27-MAR-2006 09:18	1.0	0.005			3		
038	085a038	SAMPLE	185693-002 S	111684	Water	27-MAR-2006 09:46	1.0	0.005			3		
039	085a039	CCV	mo_500			27-MAR-2006 10:20	1.0	1.0			3	1	
040	085a040	CCV	dsl_500			27-MAR-2006 10:48	1.0	1.0			3	4	
041	085a041	ICAL	jet_250			27-MAR-2006 12:54	1.0	1.0			3	5	
042	085a042	SAMPLE	185632-009	111566	Water	27-MAR-2006 13:22	1.0	0.005			3		6:BUNKC:=10296.5
043	085a043	SAMPLE	185632-010	111566	Water	27-MAR-2006 13:50	1.0	0.005		1	3		

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Stds used: 1=S2971 2=S2755 3=S2885 4=S2871 5=S2432

SEQUENCE SUMMARY FOR 185558 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166123373 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 26-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	085b001	X	primer			26-MAR-2006 16:13	1.0					
002	085b002	X	ib			26-MAR-2006 16:41	1.0					
003	085b003	CCV	dsl_500			26-MAR-2006 17:08	1.0	1.0		3	1	
004	085b004	CCV	mo_500			26-MAR-2006 17:35	1.0	1.0	2	3	2	
005	085b005	SAMPLE	185558-001 S	111662	Water	26-MAR-2006 18:35	1.0	0.005		3		
006	085b006	SAMPLE	185558-002 S	111662	Water	26-MAR-2006 19:03	1.0	0.005		3		
007	085b007	SAMPLE	185558-003 S	111662	Water	26-MAR-2006 19:31	1.0	0.005		3		
008	085b008	SAMPLE	185558-004 S	111662	Water	26-MAR-2006 19:58	1.0	0.005		3		
009	085b009	SAMPLE	185558-005 S	111662	Water	26-MAR-2006 20:26	1.0	0.005		3		
010	085b010	SAMPLE	185558-006 S	111662	Water	26-MAR-2006 20:54	1.0	0.005		3		
011	085b011	SAMPLE	185558-007 S	111662	Water	26-MAR-2006 21:22	1.0	0.005		3		
012	085b012	SAMPLE	185558-008 S	111662	Water	26-MAR-2006 21:50	1.0	0.005		3		
013	085b013	SAMPLE	185558-009 S	111662	Water	26-MAR-2006 22:18	1.0	0.005		3		
014	085b014	SAMPLE	185558-011 S	111662	Water	26-MAR-2006 22:46	1.0	0.005		3		
015	085b015	X	ib			26-MAR-2006 23:14	1.0					
016	085b016	CCV	dsl_1000			26-MAR-2006 23:41	1.0	1.0		3	3	
017	085b017	CCV	mo_500			27-MAR-2006 00:09	1.0	1.0	2	3	2	
018	085b018	X	ccv			27-MAR-2006 00:37	1.0				3	
019	085b019	SAMPLE	185562-003 S	111685	Water	27-MAR-2006 01:05	1.0	0.005		3		
020	085b020	SAMPLE	185558-022 S	111685	Water	27-MAR-2006 01:33	1.0	0.005		3		
021	085b021	SAMPLE	185558-023 S	111685	Water	27-MAR-2006 02:01	1.0	0.005		3		
022	085b022	SAMPLE	185558-024 S	111685	Water	27-MAR-2006 02:28	1.0	0.005		3		
023	085b023	SAMPLE	185558-025 S	111685	Water	27-MAR-2006 02:56	1.0	0.005		3		
024	085b024	SAMPLE	185558-026 S	111685	Water	27-MAR-2006 03:24	1.0	0.005		3		
025	085b025	SAMPLE	185558-027 S	111685	Water	27-MAR-2006 03:51	1.0	0.005		3		
026	085b026	SAMPLE	185695-001	111632	Soil	27-MAR-2006 04:19	2.0	0.1003		3		1:BUNKC:=5098.84
027	085b027	SAMPLE	185695-002	111632	Soil	27-MAR-2006 04:47	3.0	0.0999		3		1:BUNKC:=6432.21
028	085b028	SAMPLE	185695-003	111632	Soil	27-MAR-2006 05:14	10.0	0.09988		3		3:BUNKC:=11311.3
029	085b029	X	ib			27-MAR-2006 05:42	1.0					
030	085b030	CCV	dsl_500			27-MAR-2006 06:09	1.0	1.0		3	1	

Stds used: 1=S2871 2=S2971 3=S2885
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 185558 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166123373 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 26-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
031	085b031	CCV	mo_500			27-MAR-2006 06:37	1.0	1.0	2		3	2	
032	085b032	X	ccv			27-MAR-2006 07:05	1.0					1	
033	085b033	BS	QC333045 S	111684	Water	27-MAR-2006 07:57	1.0	0.005			3		
034	085b034	BSD	QC333046 S	111684	Water	27-MAR-2006 08:25	1.0	0.005			3		
035	085b035	BLANK	QC333044 S	111684	Water	27-MAR-2006 08:53	1.0	0.005	8		3		
036	085b036	SAMPLE	185672-001 S	111684	Water	27-MAR-2006 09:21	1.0	0.005	2		3	sh	
037	085b037	SAMPLE	185672-002 S	111684	Water	27-MAR-2006 09:49	1.0	0.005	2		3	sh	
038	085b038	SAMPLE	185672-003 S	111684	Water	27-MAR-2006 10:16	1.0	0.005	2		3	sh	
039	085b039	SAMPLE	185672-004 S	111684	Water	27-MAR-2006 10:44	1.0	0.005	2		3	sh	
040	085b040	X	ib			27-MAR-2006 11:12	1.0						
041	085b041	CCV	dsl_1000			27-MAR-2006 11:41	1.0	1.0			3	3	
042	085b042	CCV	mo_500			27-MAR-2006 12:08	1.0	1.0	2		3	2	
043	085b043	SAMPLE	185749-001	111632	Soil	27-MAR-2006 12:43	5.0	0.09905	1		3		1:BUNKC:=7070.75

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Stds used: 1=S2871 2=S2971 3=S2885
Flags used: sh=out of sample hold

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185558 TEHM Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	MO:2	HXCS	
185558-001	GC15B	03/26/06 18:35	1.0	+	+	+	
185558-002	GC15B	03/26/06 19:03	1.0	+	+	+	
185558-003	GC15B	03/26/06 19:31	1.0	+	+	+	
185558-004	GC15B	03/26/06 19:58	1.0	+	+	+	
185558-005	GC15B	03/26/06 20:26	1.0	+	+	+	
185558-006	GC15B	03/26/06 20:54	1.0	+	+	+	
185558-007	GC15B	03/26/06 21:22	1.0	+	+	+	
185558-008	GC15B	03/26/06 21:50	1.0	+	+	+	
185558-009	GC15B	03/26/06 22:18	1.0	+	+	+	
185558-011	GC15B	03/26/06 22:46	1.0	+	+	+	
185558-012	GC11A	03/26/06 19:47	1.0	+	+	+	
185558-013	GC11A	03/26/06 20:15	1.0	+	+	+	
185558-014	GC11A	03/26/06 20:43	1.0	+	+	+	
185558-015	GC11A	03/26/06 21:11	1.0	+	+	+	
185558-016	GC11A	03/26/06 21:39	1.0	+	+	+	
185558-017	GC11A	03/26/06 22:07	1.0	+	+	+	
185558-018	GC11A	03/26/06 22:35	1.0	+	+	+	
185558-019	GC11A	03/27/06 02:47	1.0	+	+	+	
185558-020	GC11A	03/27/06 05:07	1.0	+	+	+	
185558-021	GC11A	03/27/06 05:34	1.0	+	+	+	
185558-022	GC15B	03/27/06 01:33	1.0	+	+	+	
185558-023	GC15B	03/27/06 02:01	1.0	+	+	+	
185558-024	GC15B	03/27/06 02:28	1.0	+	+	+	

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185558 TEHM Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	MO:2	HXCS	
185558-025	GC15B	03/27/06 02:56	1.0	+	+	+	
185558-026	GC15B	03/27/06 03:24	1.0	+	+	+	
185558-027	GC15B	03/27/06 03:51	1.0	+	+	+	
QC332978	GC11A	03/26/06 19:19	1.0	+	+	+	
QC332979	GC11A	03/26/06 18:23	1.0	+		+	
QC332980	GC11A	03/26/06 18:51	1.0	+		+	
QC333047	GC11A	03/27/06 02:19	1.0	+	+	+	
QC333048	GC11A	03/27/06 01:23	1.0	+		+	
QC333049	GC11A	03/27/06 01:51	1.0	+		+	

Curtis & Tompkins Laboratories Sample Preparation Summary 27-MAR-2006 10:12

Batch Number : 111662
Date Extracted: 24-MAR-2006
Extracted by : Sandra Felipe Luna
Prep Method : 3520C

Analysis : N/A
Bgroup : TEH
Units : mL
Clean-up :

Spike #1 ID : S2903C
Spike #2 ID : S2826A
Spike #3 ID :
SOP Version : TEH50LL_rv10

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185558-001		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185558-002		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185558-003		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185558-004		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185558-005		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185558-006		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185558-007		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185558-008		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185558-009		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185558-011		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185558-012		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185558-013		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185558-014		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185558-015		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185558-016		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185558-017		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185558-018		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185558-019		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185651-001		Iris Environmental	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
185651-002		Iris Environmental	Water	500	mL	2.5	0.005000	1		.5	0		TEH	3630C	
QC332978	BLANK		Water	500	mL	2.5	0.005000	1		.5	.5		TEH	3630C	
QC332979	BS		Water	500	mL	2.5	0.005000	1		.5	.5		TEH	3630C	
QC332980	BSD		Water	500	mL	2.5	0.005000	1		.5	.5		TEH	3630C	

Prep Chemist: _____ Reviewed By: _____ Date: 3/27/06

Relinquished By: _____ Received By: MSB Date: 3/27/06

Curtis & Tompkins, Ltd

TEH WATER PREP LOG

BK2279

Page 27

LIMS Batch No: 111062
LIMS Analysis: TEHM
Extracted by: SFL
Date Extracted: 3/24/06

Extraction Method:
- ☐ mod. EPA 3510 sep. funnel
- ☑ mod. EPA 3520 cont. L/L
- ☐ _____

Cleanup Method (if needed):
- ☑ EPA 3630 Silica Gel
- ☐ Other _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185558-001 G	500	7	2.5	X	
-002					
-003					
-004					
-005					
-006		6			
-007		7			
-008					
-009					
-011 M					
-012 G					
-013 J					
-014 L					
-015 M					
-016 N					
-017 L					
-018					
-019					
185565-001 D					
-002					
MB QC332978	~~3/24/06~~ 500	N/A			
BS 79					
BSD 80					JDM 3/26/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.5 mL of TEH_SURR was added to all samples	S29036	SFL 3/24/06
0.5 mL of TEH_SP was added to all spikes	S2826A	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	JTB624063	
☑ Samples were continually extracted about 450 mL of CH_2Cl_2	EM46060	
Extraction Start Time:	1306	
Extraction End Time:	0720	3/25/06 1400
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	JDM 3/26/06
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM45118532	
Concentrated to volumes as noted above	✓	

CC 3/24/06
Extraction Chemist Date

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Contined from Page ____
Continued on Page ____

Jessie Chen 3/27/06
Reviewed by Date

Curtis & Tompkins, Ltd.

Silica Gel Cleanup

EPA 3630c

Prep Chemist: MSM
Cleanup Date: 3/26/06

Benchbook # **BK 2272**
Page 100

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
185558-001	111662	1.0	1.0	
-002				
-003				
-004				
-005				
-006				
-007				
-008				
-009				
-011				
-012				
-013				
-014				
-015				
-016				
-017				
-018				
-019				
185651-001				
-002				
MB QC372978				
BS 79				
BSD 80				
				MSM 3/26/06

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ____ g columns	N/A	MSM 3/26/06
☑ Extracts were cleaned up using 1.0 g cartridges	SP7028	
Extracts were eluted with 4.0 mL CH_2Cl_2	EM466066	
Concentrated to volumes as noted above	✓	

MSM 3/26/06
Extraction Chemist / Date

Continued from page ____
Continued on page ____

3/26/06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Preparation Summary 26-MAR-2006 17:22

Batch Number : 111685
Date Extracted: 25-MAR-2006
Extracted by : Kevin Riley
Prep Method : 3520C

Analysis : TEHM
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2903C
Spike #2 ID : S2826A
Spike #3 ID :
SOP Version :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185558-020		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185558-021		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
185558-022		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
185558-023		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
185558-024		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
185558-025		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
185558-026		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185558-027		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
185562-001		Blasland, Bouck & Lee	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
185562-002		Blasland, Bouck & Lee	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185562-003		Blasland, Bouck & Lee	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185586-001		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185586-002		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185586-003		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185586-008		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185586-009		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185586-010		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185586-011		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185586-013		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185586-014		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1		.5	0		TEHM	3630	
QC333047	BLANK		Water	500	mL	2.5	0.005000	1		.5	.5		TEHM	3630	
QC333048	BS		Water	500	mL	2.5	0.005000	1		.5	.5		TEHM	3630	
QC333049	BSD		Water	500	mL	2.5	0.005000	1		.5	.5		TEHM	3630	

Prep Chemist: JDM for KR Reviewed By: [illegible] Date: 3/27/06

Relinquished By: [illegible] Received By: [illegible] Date: 3/27/06

Curtis & Tompkins, Ltd

TEH WATER PREP LOG

LIMS Batch No: 111685
LIMS Analysis: TEH/M
Extracted by: KR
Date Extracted: 25 MAR 06

Extraction Method:
KR 25 MAR 06 ☑ mod. EPA 3510 sep. funnel
☑ mod. EPA 3520 cont. L/L
☐ _____

Cleanup Method (if needed):
☑ EPA 3630 Silica Gel
☐ Other _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185558-020:L	500	7	2.5	X	
21:G		8			
22:L					
23:G					
24:G					PINK
25:G		7			
26:L		8			
27:↓		8			
185562-001:B		7			
2:D					
3:C					
185586-001:M					
2:↓					
3:↓					
8:G					
9:K					
10:G					
11:G					
13:D					
14:D		N/A			
MB QC333047					
BS 48					
BSD 49					

3/26/06

0.5 mL of TEH_SURR was added to all samples
0.5 mL of TEH_SP was added to all spikes
pH of all samples adjusted to pH ≤ 2 with H_2SO_4
☑ Samples were continually extracted about 450 mL of CH_2Cl_2
Extraction Start Time: 1810
Extraction End Time: 1210
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4
Concentrated to volumes as noted above

Mfg & Lot# / LIMS # / Time	Date/ Initials
S2903C	3/25/06 KR
S2826A	
JTB B240603	
EM46060	
1810	
1210	JM 3/26/06
N/A	
EM45115532	
/	

Initials
26/06 KR
26/06 JM

25 MAR 06
Extraction Chemist Date

Continued from Page _____
Continued on Page _____

3/26/06
Reviewed by Date

Curtis & Tompkins, Ltd.

Silica Gel Cleanup

EPA 3630c

Prep Chemist: JM
Cleanup Date: 3/26/06

Benchbook # **BK 2297**
Page 2

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
QC3330047 MB	111685	1.0	1.0	
48 BS				
49 BSD				
1855556 · 020				
·021				
·022				
·023				
·024				
·025				
·026				
·027				
1855562 · 001				
·002				
·003				
1855566 · 001				
·002				
·003				
·008				
·009				
·010				
·011				
·013				
·014				

3/26/06

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ____ g columns	N/A	JM 3/26/06
☑ Extracts were cleaned up using 1.0 g cartridges	SP7028	
Extracts were eluted with 2.0 mL CH_2Cl_2	EMA6060	
Concentrated to volumes as noted above	✓	

3/26/06
Extraction Chemist / Date

Continued from page ____
Continued on page ____

3/27/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water
As of 04/08/06

Analyte	Units	GC11A	GC13B	GC15B	GC17A
JP-5 C10-C16	ug/L	17	16	7.9	5.4
Jet Fuel A C10-C16	ug/L	14	30	24	33
Diesel C10-C20	ug/L		16	13	19
Diesel C10-C22	ug/L	21	18	19	27
Diesel C10-C28	ug/L	18	11	22	37
Diesel C10-C24	ug/L	21	15	18	33
Diesel C12-C24	ug/L	20	13	20	33
Diesel C12-C32	ug/L	22	14	25	23
Diesel C12-C36	ug/L	13	17		
Diesel C12-C28	ug/L		31		
Diesel C12-C22	ug/L	19	17	20	25
Motor Oil C20-C36	ug/L	40	50	29	53
Motor Oil C28-C36	ug/L	42	55	33	76
Motor Oil C24-C36	ug/L	42	55	33	76
Motor Oil C22-C32	ug/L	36	51	21	50
Motor Oil C22-C36	ug/L	41	52	30	51
Hexacosane	ug/L	4.5	3.4	4.2	3.1

VOLATILE ORGANIC COMPOUNDS

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	937GW107	Batch#:	111365
Lab ID:	185558-001	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Analyzed:	03/16/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	8.5	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	13	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	91	80-120
1,2-Dichloroethane-d4	104	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	104	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	979GW109	Batch#:	111365
Lab ID:	185558-002	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Analyzed:	03/16/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	105	76-114
Toluene-d8	102	88-110
Bromofluorobenzene	109	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	979GW110	Batch#:	111365
Lab ID:	185558-003	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Analyzed:	03/16/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	0.9	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	6.7	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	105	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	110	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	979GW113	Batch#:	111365
Lab ID:	185558-004	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Analyzed:	03/16/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	0.8	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	11	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	3.9	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	107	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	107	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	979GW114	Batch#:	111365
Lab ID:	185558-005	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Analyzed:	03/16/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	1.0	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-120
1,2-Dichloroethane-d4	109	76-114
Toluene-d8	102	88-110
Bromofluorobenzene	107	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	979GW112	Batch#:	111365
Lab ID:	185558-006	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Analyzed:	03/16/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	1.5	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	7.8	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	16	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	30	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	107	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	112	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	979GW112RB116	Batch#:	111365
Lab ID:	185558-007	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Analyzed:	03/16/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	109	76-114
Toluene-d8	102	88-110
Bromofluorobenzene	110	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	979GW116	Batch#:	111416
Lab ID:	185558-008	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	2.5	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	50	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-120
1,2-Dichloroethane-d4	99	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	107	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DUP0314061A	Batch#:	111416
Lab ID:	185558-009	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	2.6	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	50	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-120
1,2-Dichloroethane-d4	99	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	104	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	TB0314061A	Batch#:	111416
Lab ID:	185558-010	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-120
1,2-Dichloroethane-d4	96	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	105	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DAEGW03	Batch#:	111416
Lab ID:	185558-011	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	0.3 J	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-120
1,2-Dichloroethane-d4	97	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	108	86-115

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DAEGW04	Batch#:	111416
Lab ID:	185558-012	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	0.2 J	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-120
1,2-Dichloroethane-d4	101	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	107	86-115

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DAEGW05	Batch#:	111416
Lab ID:	185558-013	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-120
1,2-Dichloroethane-d4	99	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	107	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DAEGW08	Batch#:	111416
Lab ID:	185558-014	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-120
1,2-Dichloroethane-d4	100	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	104	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DAEGW103	Batch#:	111416
Lab ID:	185558-015	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-120
1,2-Dichloroethane-d4	99	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	107	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	600GW109	Batch#:	111400
Lab ID:	185558-016	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	114	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	107	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	1065MW102	Batch#:	111400
Lab ID:	185558-017	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	113	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	106	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	1065PZ1A	Batch#:	111400
Lab ID:	185558-018	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	112	76-114
Toluene-d8	102	88-110
Bromofluorobenzene	106	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	231PZ04	Batch#:	111448
Lab ID:	185558-019	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Analyzed:	03/20/06
Diln Fac:	7.143		

Analyte	Result	RL	MDL
Chloromethane	ND	7.1	
Vinyl Chloride	ND	3.6	
Bromomethane	ND	7.1	
Chloroethane	ND	7.1	
Acetone	ND	71	
1,1-Dichloroethene	ND	3.6	
Methylene Chloride	ND	29	
Carbon Disulfide	ND	3.6	
MTBE	ND	3.6	
trans-1,2-Dichloroethene	ND	3.6	
Vinyl Acetate	ND	71	
1,1-Dichloroethane	ND	3.6	
2-Butanone	ND	71	
cis-1,2-Dichloroethene	ND	3.6	
Chloroform	ND	3.6	
1,1,1-Trichloroethane	ND	3.6	
Carbon Tetrachloride	ND	3.6	
1,2-Dichloroethane	ND	3.6	
Benzene	440	3.6	0.8
Trichloroethene	ND	3.6	
1,2-Dichloropropane	ND	3.6	
Bromodichloromethane	ND	3.6	
4-Methyl-2-Pentanone	ND	71	
cis-1,3-Dichloropropene	ND	3.6	
Toluene	6.4	3.6	
trans-1,3-Dichloropropene	ND	3.6	
1,1,2-Trichloroethane	ND	3.6	
2-Hexanone	ND	71	
Tetrachloroethene	ND	3.6	
Dibromochloromethane	ND	3.6	
Chlorobenzene	ND	3.6	
Ethylbenzene	19	3.6	
Styrene	ND	3.6	
Bromoform	ND	7.1	
1,1,2,2-Tetrachloroethane	ND	3.6	
Xylene (total)	ND	7.1	

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-120
1,2-Dichloroethane-d4	106	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	105	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	231PZ03	Units:	ug/L
Lab ID:	185558-020	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06

Analyte	Result	RL	MDL	Diln Fac	Batch#	Analyzed
Chloromethane	ND	1.0		1.000	111400	03/17/06
Vinyl Chloride	ND	0.5		1.000	111400	03/17/06
Bromomethane	ND	1.0		1.000	111400	03/17/06
Chloroethane	ND	1.0		1.000	111400	03/17/06
Acetone	ND	10		1.000	111400	03/17/06
1,1-Dichloroethene	ND	0.5		1.000	111400	03/17/06
Methylene Chloride	ND	4.0		1.000	111400	03/17/06
Carbon Disulfide	ND	0.5		1.000	111400	03/17/06
MTBE	ND	0.5		1.000	111400	03/17/06
trans-1,2-Dichloroethene	ND	0.5		1.000	111400	03/17/06
Vinyl Acetate	ND	10		1.000	111400	03/17/06
1,1-Dichloroethane	ND	0.5		1.000	111400	03/17/06
2-Butanone	ND	10		1.000	111400	03/17/06
cis-1,2-Dichloroethene	ND	0.5		1.000	111400	03/17/06
Chloroform	ND	0.5		1.000	111400	03/17/06
1,1,1-Trichloroethane	ND	0.5		1.000	111400	03/17/06
Carbon Tetrachloride	ND	0.5		1.000	111400	03/17/06
1,2-Dichloroethane	ND	0.5		1.000	111400	03/17/06
Benzene	280	2.0	0.2	4.000	111492	03/21/06
Trichloroethene	ND	0.5		1.000	111400	03/17/06
1,2-Dichloropropane	ND	0.5		1.000	111400	03/17/06
Bromodichloromethane	ND	0.5		1.000	111400	03/17/06
4-Methyl-2-Pentanone	ND	10		1.000	111400	03/17/06
cis-1,3-Dichloropropene	ND	0.5		1.000	111400	03/17/06
Toluene	6.9	0.5		1.000	111400	03/17/06
trans-1,3-Dichloropropene	ND	0.5		1.000	111400	03/17/06
1,1,2-Trichloroethane	ND	0.5		1.000	111400	03/17/06
2-Hexanone	ND	10		1.000	111400	03/17/06
Tetrachloroethene	ND	0.5		1.000	111400	03/17/06
Dibromochloromethane	ND	0.5		1.000	111400	03/17/06
Chlorobenzene	ND	0.5		1.000	111400	03/17/06
Ethylbenzene	5.4	0.5		1.000	111400	03/17/06
Styrene	ND	0.5		1.000	111400	03/17/06
Bromoform	ND	1.0		1.000	111400	03/17/06
1,1,2,2-Tetrachloroethane	ND	0.5		1.000	111400	03/17/06
Xylene (total)	3.0	1.0		1.000	111400	

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	101	80-120	1.000	111400	03/17/06
1,2-Dichloroethane-d4	103	76-114	1.000	111400	03/17/06
Toluene-d8	101	88-110	1.000	111400	03/17/06
Bromofluorobenzene	104	86-115	1.000	111400	03/17/06

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	937GW07	Diln Fac:	1.000
Lab ID:	185558-021	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L		

Analyte	Result	RL	MDL	Batch#	Analyzed
Chloromethane	ND	1.0		111400	03/17/06
Vinyl Chloride	ND	0.5		111400	03/17/06
Bromomethane	ND	1.0		111400	03/17/06
Chloroethane	ND	1.0		111400	03/17/06
Acetone	ND	10		111400	03/17/06
1,1-Dichloroethene	ND	0.5		111400	03/17/06
Methylene Chloride	ND	4.0		111400	03/17/06
Carbon Disulfide	ND	0.5		111400	03/17/06
MTBE	ND	0.5		111400	03/17/06
trans-1,2-Dichloroethene	ND	0.5		111400	03/17/06
Vinyl Acetate	ND	10		111400	03/17/06
1,1-Dichloroethane	ND	0.5		111400	03/17/06
2-Butanone	ND	10		111400	03/17/06
cis-1,2-Dichloroethene	ND	0.5		111400	03/17/06
Chloroform	ND	0.5		111400	03/17/06
1,1,1-Trichloroethane	ND	0.5		111400	03/17/06
Carbon Tetrachloride	ND	0.5		111400	03/17/06
1,2-Dichloroethane	ND	0.5		111400	03/17/06
Benzene	ND	0.5	0.1	111448	03/20/06
Trichloroethene	ND	0.5		111400	03/17/06
1,2-Dichloropropane	ND	0.5		111400	03/17/06
Bromodichloromethane	ND	0.5		111400	03/17/06
4-Methyl-2-Pentanone	ND	10		111400	03/17/06
cis-1,3-Dichloropropene	ND	0.5		111400	03/17/06
Toluene	ND	0.5		111400	03/17/06
trans-1,3-Dichloropropene	ND	0.5		111400	03/17/06
1,1,2-Trichloroethane	ND	0.5		111400	03/17/06
2-Hexanone	ND	10		111400	03/17/06
Tetrachloroethene	ND	0.5		111400	03/17/06
Dibromochloromethane	ND	0.5		111400	03/17/06
Chlorobenzene	ND	0.5		111400	03/17/06
Ethylbenzene	ND	0.5		111400	03/17/06
Styrene	ND	0.5		111400	03/17/06
Bromoform	ND	1.0		111400	03/17/06
1,1,2,2-Tetrachloroethane	ND	0.5		111400	03/17/06
Xylene (total)	ND	1.0		111400	

Surrogate	%REC	Limits	Batch#	Analyzed
Dibromofluoromethane	96	80-120	111400	03/17/06
1,2-Dichloroethane-d4	101	76-114	111400	03/17/06
Toluene-d8	98	88-110	111400	03/17/06
Bromofluorobenzene	102	86-115	111400	03/17/06

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	231PZ01	Batch#:	111448
Lab ID:	185558-022	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Analyzed:	03/20/06
Diln Fac:	62.50		

Analyte	Result	RL	MDL
Chloromethane	ND	63	
Vinyl Chloride	ND	31	
Bromomethane	ND	63	
Chloroethane	ND	63	
Acetone	ND	630	
1,1-Dichloroethene	ND	31	
Methylene Chloride	ND	250	
Carbon Disulfide	ND	31	
MTBE	ND	31	
trans-1,2-Dichloroethene	ND	31	
Vinyl Acetate	ND	630	
1,1-Dichloroethane	ND	31	
2-Butanone	ND	630	
cis-1,2-Dichloroethene	ND	31	
Chloroform	ND	31	
1,1,1-Trichloroethane	ND	31	
Carbon Tetrachloride	ND	31	
1,2-Dichloroethane	ND	31	
Benzene	4,500	31	7.3
Trichloroethene	ND	31	
1,2-Dichloropropane	ND	31	
Bromodichloromethane	ND	31	
4-Methyl-2-Pentanone	ND	630	
cis-1,3-Dichloropropene	ND	31	
Toluene	ND	31	
trans-1,3-Dichloropropene	ND	31	
1,1,2-Trichloroethane	ND	31	
2-Hexanone	ND	630	
Tetrachloroethene	ND	31	
Dibromochloromethane	ND	31	
Chlorobenzene	ND	31	
Ethylbenzene	310	31	
Styrene	ND	31	
Bromoform	ND	63	
1,1,2,2-Tetrachloroethane	ND	31	
Xylene (total)	ND	63	

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-120
1,2-Dichloroethane-d4	105	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	103	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	937GW06	Batch#:	111448
Lab ID:	185558-023	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Analyzed:	03/20/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	114	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	106	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	937GW42	Batch#:	111492
Lab ID:	185558-024	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	1.8	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	17	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	20	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	2.3	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	104	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	103	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	937GW32R	Batch#:	111400
Lab ID:	185558-025	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	1.8	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-120
1,2-Dichloroethane-d4	101	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	99	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	231GW15	Batch#:	111400
Lab ID:	185558-026	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-120
1,2-Dichloroethane-d4	102	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	101	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	231GW13	Batch#:	111400
Lab ID:	185558-027	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-120
1,2-Dichloroethane-d4	104	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	103	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331744	Batch#:	111365
Matrix:	Water	Analyzed:	03/16/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	104	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	108	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331892	Batch#:	111400
Matrix:	Water	Analyzed:	03/17/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	113	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	105	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331967	Batch#:	111416
Matrix:	Water	Analyzed:	03/17/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-120
1,2-Dichloroethane-d4	98	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	108	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332106	Batch#:	111448
Matrix:	Water	Analyzed:	03/20/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-120
1,2-Dichloroethane-d4	109	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	103	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332107	Batch#:	111448
Matrix:	Water	Analyzed:	03/20/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	112	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	105	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332276	Batch#:	111492
Matrix:	Water	Analyzed:	03/21/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-120
1,2-Dichloroethane-d4	101	76-114
Toluene-d8	98	88-110
Bromofluorobenzene	105	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331743	Batch#:	111365
Matrix:	Water	Analyzed:	03/16/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	26.78	107	65-135
Benzene	25.00	24.70	99	65-135
Trichloroethene	25.00	26.22	105	65-135
Toluene	25.00	25.51	102	65-135
Chlorobenzene	25.00	26.22	105	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	101	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	97	86-115

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	111400
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Type: BS Lab ID: QC331889

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	28.26	113	65-135
Benzene	25.00	26.05	104	65-135
Trichloroethene	25.00	27.41	110	65-135
Toluene	25.00	25.57	102	65-135
Chlorobenzene	25.00	25.03	100	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-120
1,2-Dichloroethane-d4	106	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	98	86-115

Type: BSD Lab ID: QC331890

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	28.39	114	65-135	0	35
Benzene	25.00	25.51	102	65-135	2	35
Trichloroethene	25.00	27.20	109	65-135	1	35
Toluene	25.00	25.83	103	65-135	1	35
Chlorobenzene	25.00	25.51	102	65-135	2	35

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-120
1,2-Dichloroethane-d4	102	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	98	86-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	111416
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Type: BS Lab ID: QC331963

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	26.64	107	65-135
Benzene	25.00	25.19	101	65-135
Trichloroethene	25.00	25.92	104	65-135
Toluene	25.00	25.79	103	65-135
Chlorobenzene	25.00	26.01	104	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-120
1,2-Dichloroethane-d4	98	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	100	86-115

Type: BSD Lab ID: QC331964

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	27.79	111	65-135	4	35
Benzene	25.00	26.30	105	65-135	4	35
Trichloroethene	25.00	26.56	106	65-135	2	35
Toluene	25.00	26.48	106	65-135	3	35
Chlorobenzene	25.00	26.49	106	65-135	2	35

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-120
1,2-Dichloroethane-d4	98	76-114
Toluene-d8	98	88-110
Bromofluorobenzene	96	86-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	111448
Units:	ug/L	Analyzed:	03/20/06
Diln Fac:	1.000		

Type: BS Lab ID: QC332104

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	28.91	116	65-135
Benzene	25.00	26.22	105	65-135
Trichloroethene	25.00	27.81	111	65-135
Toluene	25.00	26.27	105	65-135
Chlorobenzene	25.00	26.20	105	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-120
1,2-Dichloroethane-d4	105	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	98	86-115

Type: BSD Lab ID: QC332105

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	27.04	108	65-135	7	35
Benzene	25.00	24.76	99	65-135	6	35
Trichloroethene	25.00	26.31	105	65-135	6	35
Toluene	25.00	24.83	99	65-135	6	35
Chlorobenzene	25.00	25.07	100	65-135	4	35

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-120
1,2-Dichloroethane-d4	102	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	98	86-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	111492
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Type: BS Lab ID: QC332274

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	29.84	119	65-135
Benzene	25.00	26.72	107	65-135
Trichloroethene	25.00	28.78	115	65-135
Toluene	25.00	27.41	110	65-135
Chlorobenzene	25.00	27.35	109	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-120
1,2-Dichloroethane-d4	102	76-114
Toluene-d8	102	88-110
Bromofluorobenzene	97	86-115

Type: BSD Lab ID: QC332275

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	26.83	107	65-135	11	35
Benzene	25.00	24.41	98	65-135	9	35
Trichloroethene	25.00	25.72	103	65-135	11	35
Toluene	25.00	24.89	100	65-135	10	35
Chlorobenzene	25.00	24.86	99	65-135	10	35

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	101	76-114
Toluene-d8	88	88-110
Bromofluorobenzene	97	86-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	111365
MSS Lab ID:	185525-002	Sampled:	03/14/06
Matrix:	Water	Received:	03/14/06
Units:	ug/L	Analyzed:	03/16/06
Diln Fac:	1.000		

Type: MS Lab ID: QC331745

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.06158	25.00	29.64	119	65-135
Benzene	<0.06014	25.00	25.73	103	65-135
Trichloroethene	<0.1752	25.00	27.14	109	65-135
Toluene	<0.1181	25.00	25.44	102	65-135
Chlorobenzene	<0.1078	25.00	25.64	103	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-120
1,2-Dichloroethane-d4	108	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	98	86-115

Type: MSD Lab ID: QC331746

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	29.79	119	65-135	1	35
Benzene	25.00	24.98	100	65-135	3	35
Trichloroethene	25.00	25.88	104	65-135	5	35
Toluene	25.00	25.17	101	65-135	1	35
Chlorobenzene	25.00	25.55	102	65-135	0	35

Surrogate	%REC	Limits
Dibromofluoromethane	111	80-120
1,2-Dichloroethane-d4	107	76-114
Toluene-d8	102	88-110
Bromofluorobenzene	101	86-115

RPD= Relative Percent Difference

8260/624SA w ICA

Data File: \\Gcmsserver\DD\chem\MSVOA06.i\030906.b\FC911.D

Date : 09-MAR-2006 13:59

Client ID: bfb tune std

Sample Info: BFB,S2327

Volume Injected (uL): 1.0

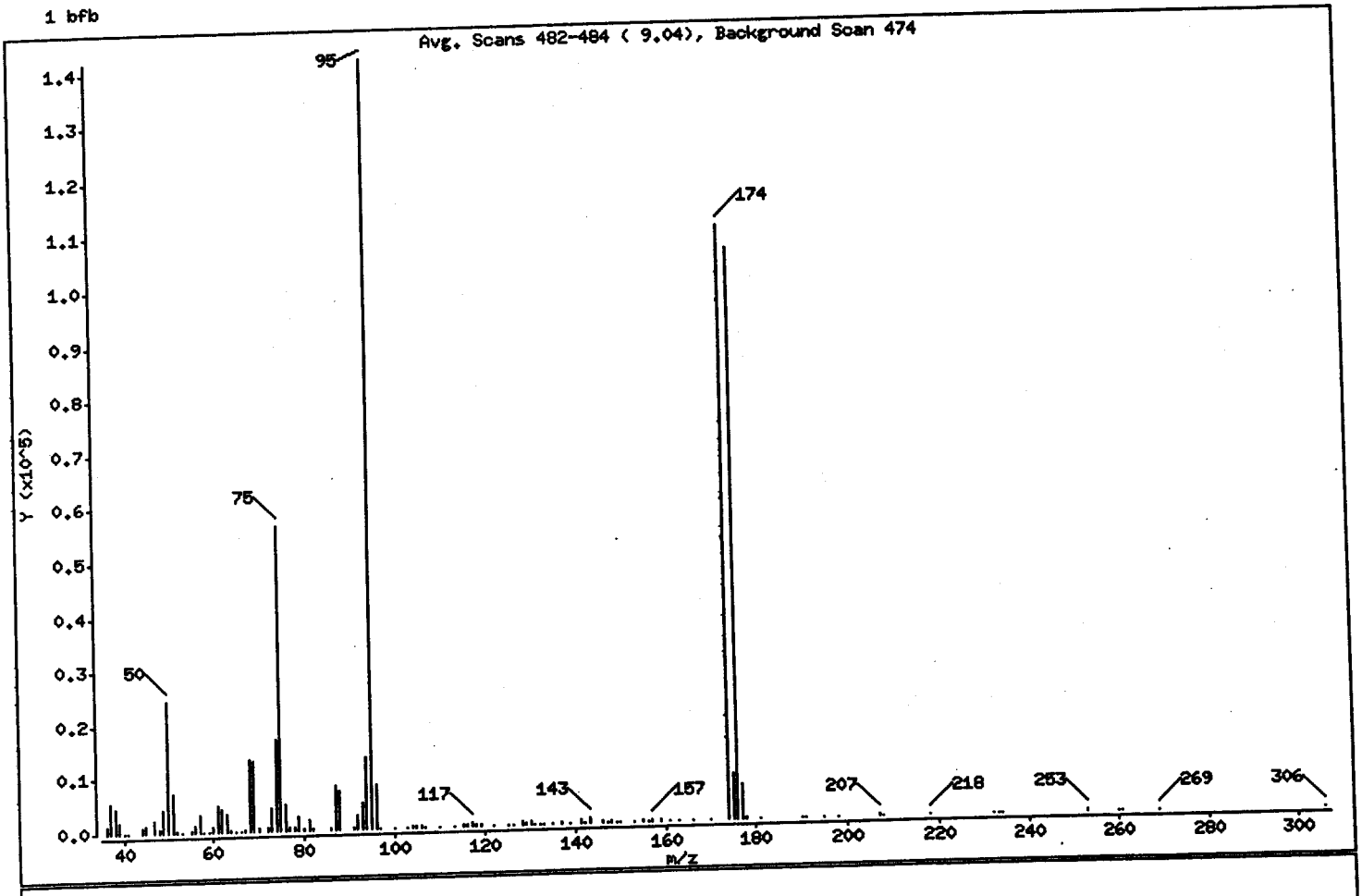
Column phase:

1 bfb

Instrument: MSVOA06.i

Operator: BO

Column diameter: 2.00



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.25
75	30.00 - 60.00% of mass 95	39.81
96	5.00 - 9.00% of mass 95	5.74
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	77.30
175	5.00 - 9.00% of mass 174	5.89 (7.62)
176	95.01 - 100.99% of mass 174	74.45 (96.32)
177	5.00 - 9.00% of mass 176	4.70 (6.32)

R 3/10/06

3/13/06

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\031606.b\FCG02.D

Date : 16-MAR-2006 08:29

Client ID: bfb tune std

Instrument: MSVOA06.i

Sample Info: BFB,S2327

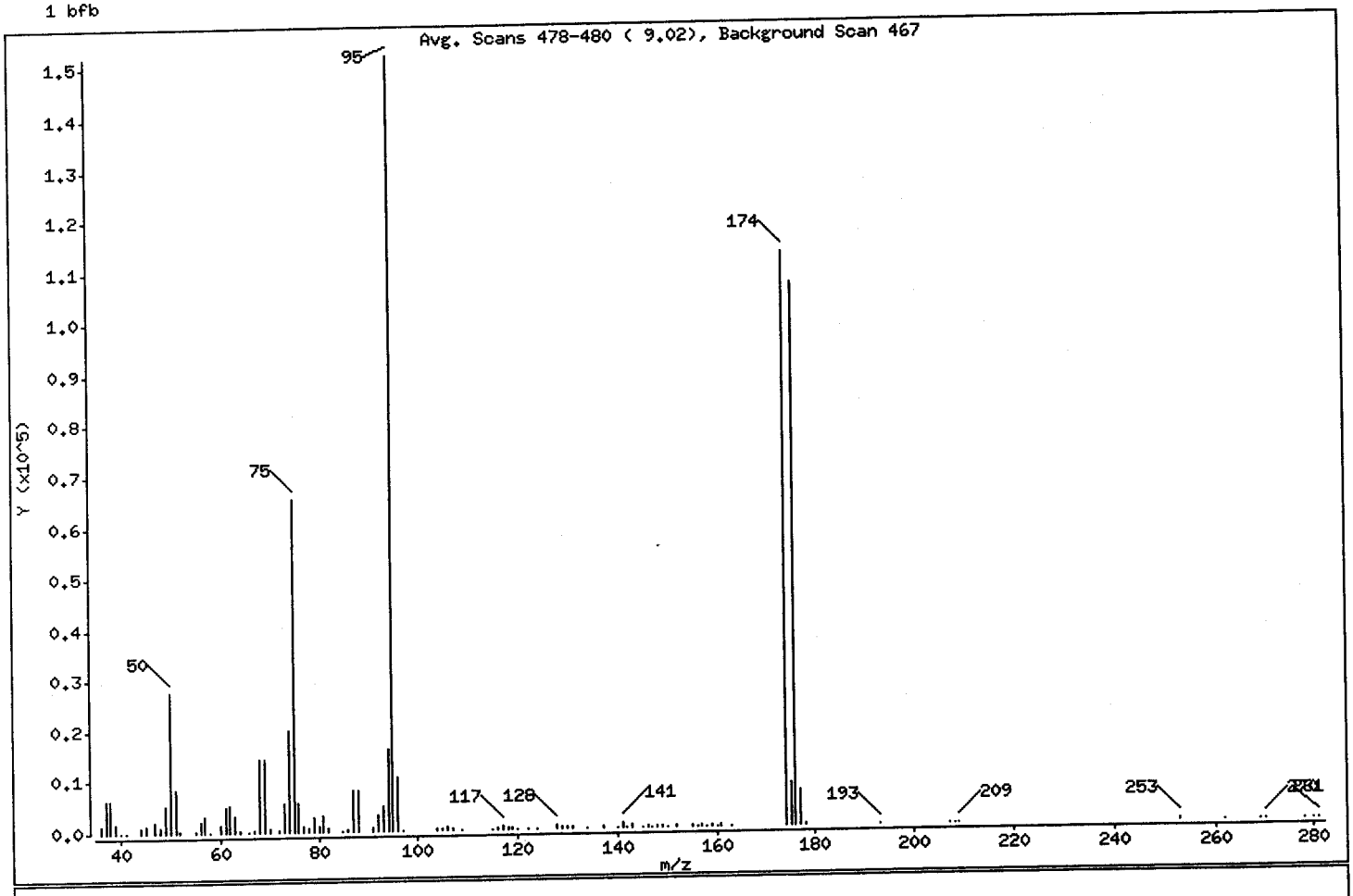
Volume Injected (uL): 1.0

Operator: BO

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.11
75	30.00 - 60.00% of mass 95	43.05
96	5.00 - 9.00% of mass 95	6.88
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	74.00
175	5.00 - 9.00% of mass 174	5.61 (7.58)
176	95.01 - 100.99% of mass 174	70.11 (94.74) *
177	5.00 - 9.00% of mass 176	4.64 (6.62)

pr 3/16/06

3/17/02

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\032106.b\FCL02.D

Date : 21-MAR-2006 08:26

Client ID: bfb tune std

Instrument: MSVOA06.i

Sample Info: BFB,S2327

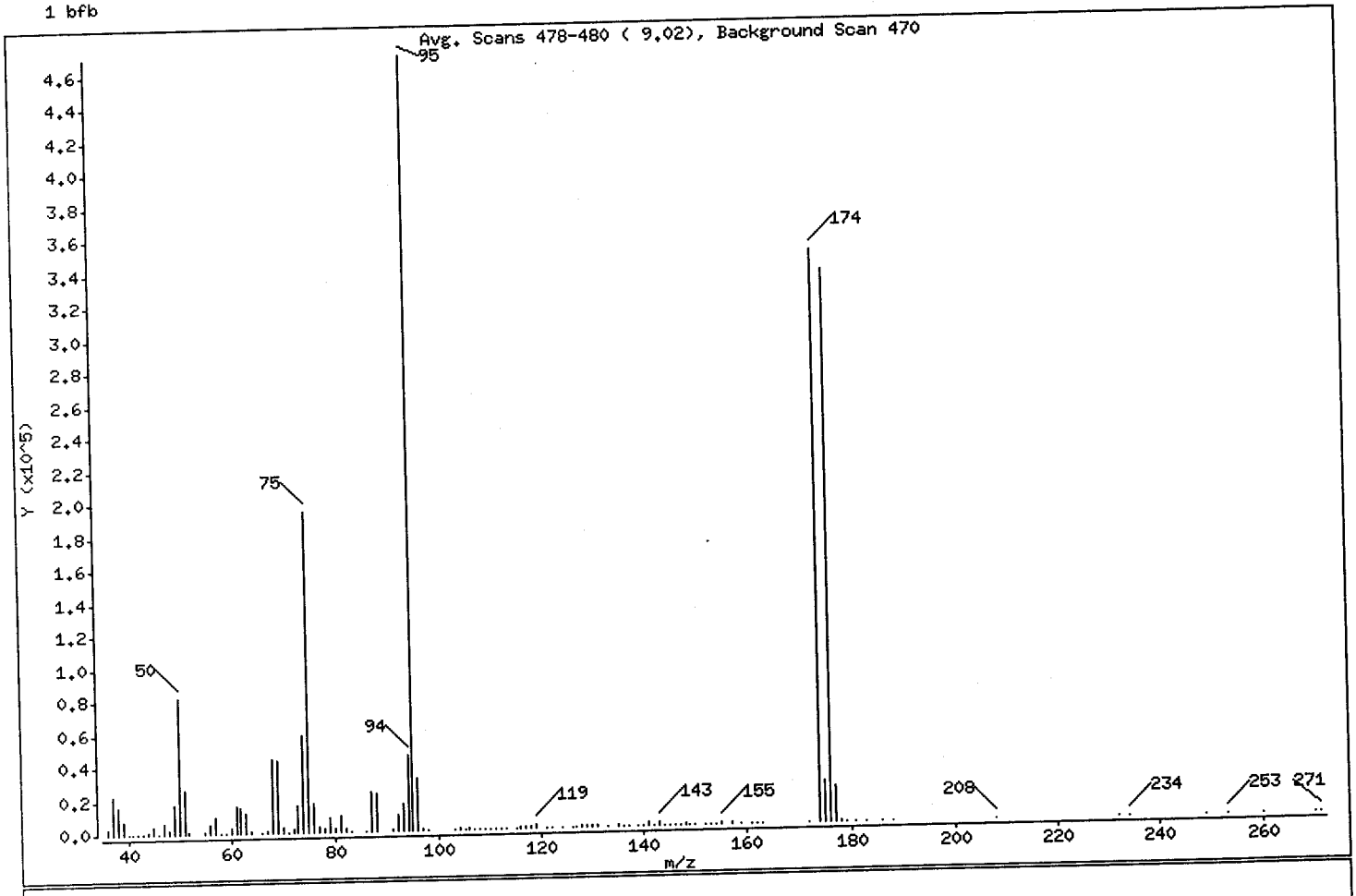
Volume Injected (uL): 1.0

Operator: BO

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.57
75	30.00 - 60.00% of mass 95	41.39
96	5.00 - 9.00% of mass 95	6.65
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	73.92
175	5.00 - 9.00% of mass 174	5.17 (7.00)
176	95.01 - 100.99% of mass 174	71.50 (96.72)
177	5.00 - 9.00% of mass 176	4.51 (6.31)

pv 3/22/06

a 3/22/06

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\032106.b\FCL06.D

Date : 21-MAR-2006 10:42

Client ID: bfb tune std

Instrument: MSVOA06.i

Sample Info: BFB,S2327

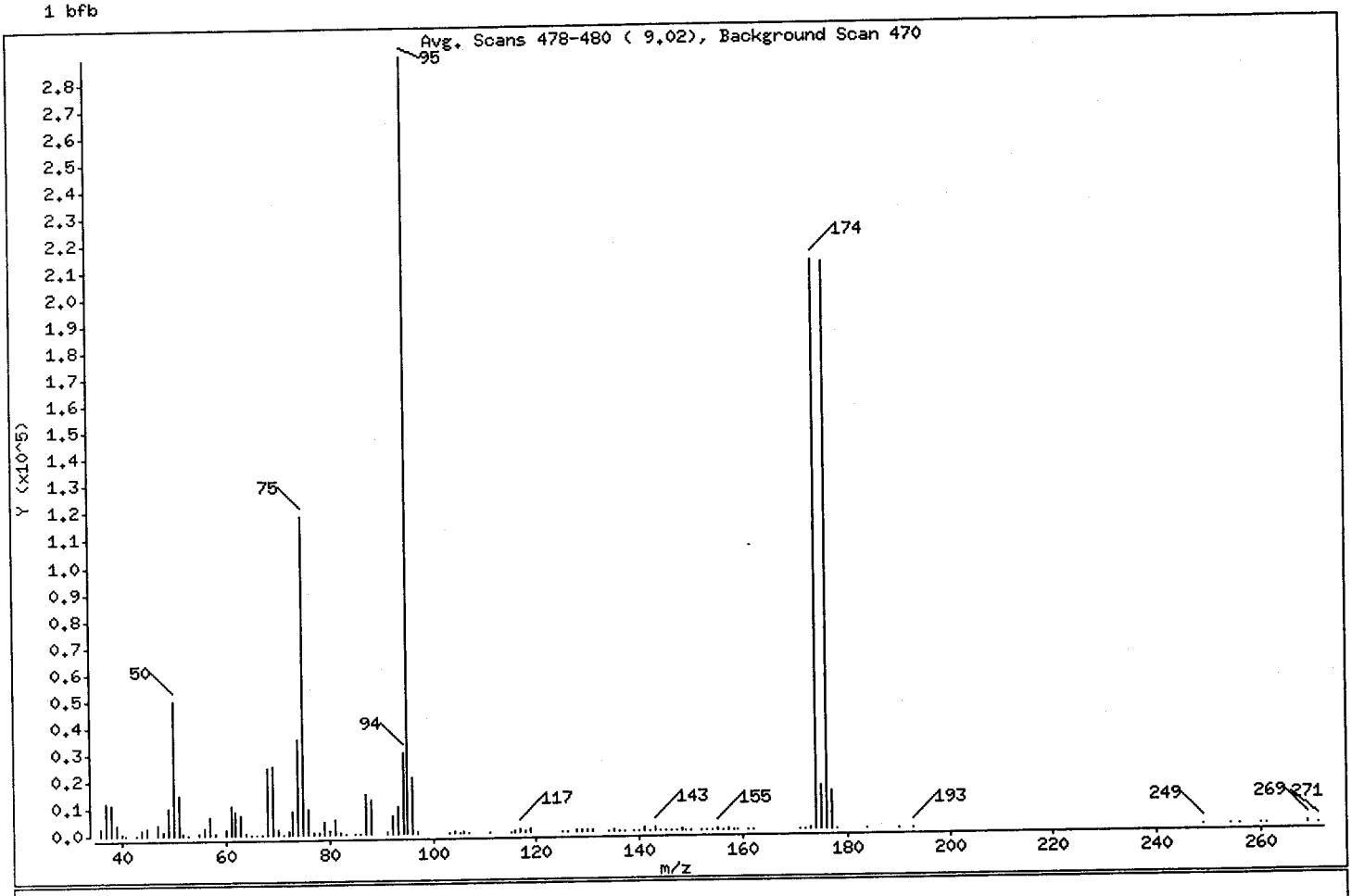
Volume Injected (uL): 1.0

Operator: BO

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.34
75	30.00 - 60.00% of mass 95	41.02
96	5.00 - 9.00% of mass 95	7.03
173	Less than 2.00% of mass 174	0.14 (0.19)
174	50.00 - 99.99% of mass 95	73.32
175	5.00 - 9.00% of mass 174	5.57 (7.60)
176	95.01 - 100.99% of mass 174	73.11 (99.72)
177	5.00 - 9.00% of mass 176	4.86 (6.65)

pr 3/22/06

a 03/22/06

ICAL

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\020106.b\HB107.D

Date : 01-FEB-2006 14:11

Client ID: bfb tune std

Sample Info: BFB,S2327

Volume Injected (uL): 1.0

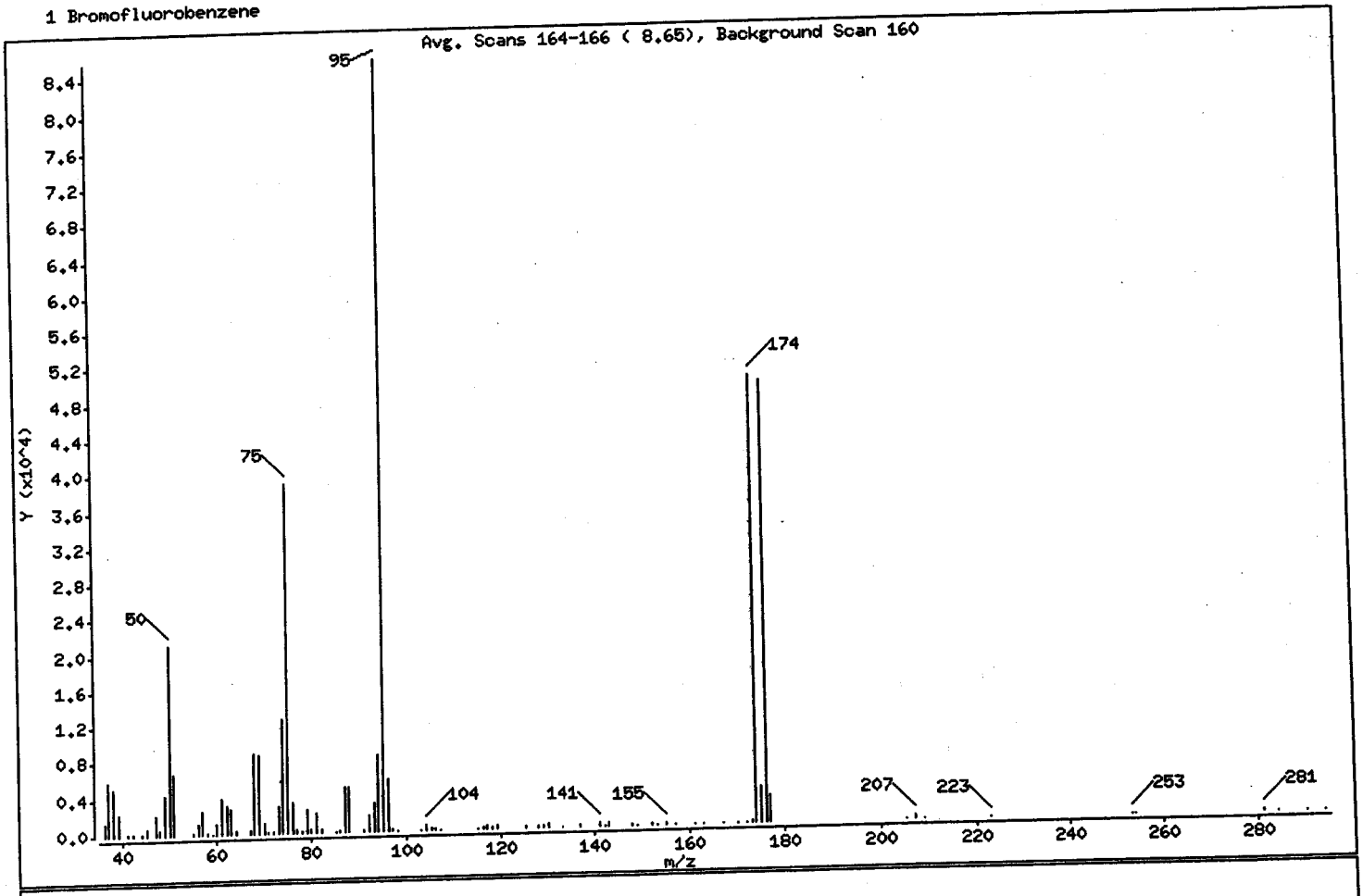
Column phase:

Instrument: MSVOA08.i

Operator: LW

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.65
75	30.00 - 60.00% of mass 95	45.32
96	5.00 - 9.00% of mass 95	6.71
173	Less than 2.00% of mass 174	0.17 (0.29)
174	50.00 - 99.99% of mass 95	58.22
175	5.00 - 9.00% of mass 174	4.51 (7.74)
176	95.01 - 100.99% of mass 174	57.53 (98.81)
177	5.00 - 9.00% of mass 176	3.50 (6.09)

a 02402038

LW 2-1-06

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\031706.b\HCH02.D

Date : 17-MAR-2006 07:59

Client ID: bfb tune std

Instrument: MSVOA08.i

Sample Info: BFB,S2327

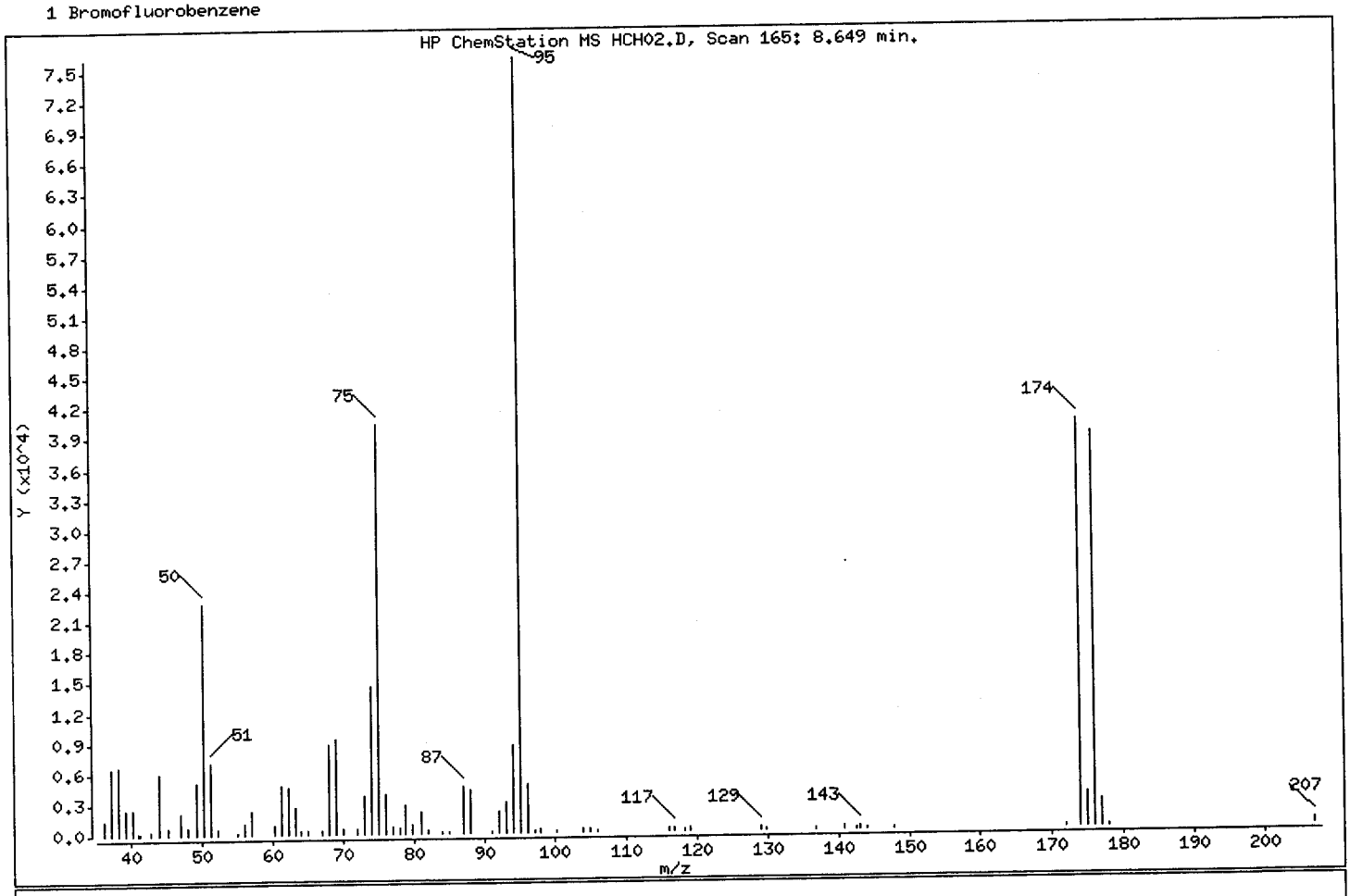
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	29.96
75	30.00 - 60.00% of mass 95	52.99
96	5.00 - 9.00% of mass 95	6.10
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	52.65
175	5.00 - 9.00% of mass 174	4.37 (8.31)
176	95.01 - 100.99% of mass 174	51.13 (97.11)
177	5.00 - 9.00% of mass 176	3.36 (6.56)

Q 3/17/06

LW 3-17-06

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\031706.b\HCH10.D

Date : 17-MAR-2006 13:00

Client ID: bfb tune std

Instrument: MSVOA08.i

Sample Info: BFB,S2327

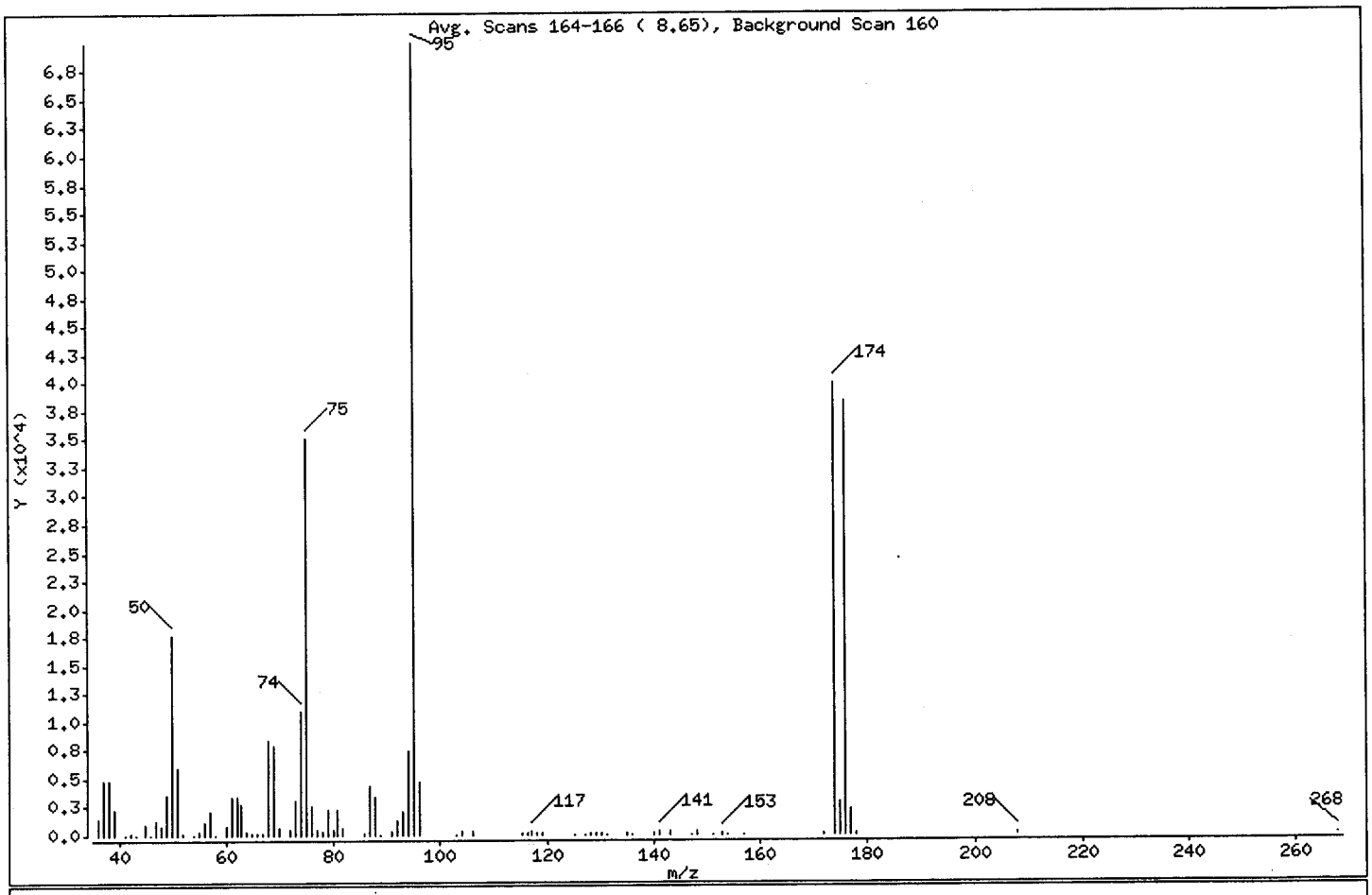
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	25.26
75	30.00 - 60.00% of mass 95	50.17
96	5.00 - 9.00% of mass 95	6.69
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	56.99
175	5.00 - 9.00% of mass 174	4.16 (7.30)
176	95.01 - 100.99% of mass 174	54.72 (96.01)
177	5.00 - 9.00% of mass 176	3.21 (5.87)

Q 03/20/06

LW 3-20-06

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\032006.b\HCK02.D

Date : 20-MAR-2006 07:53

Client ID: bfb tune std

Instrument: MSVOA08.i

Sample Info: BFB,S2327

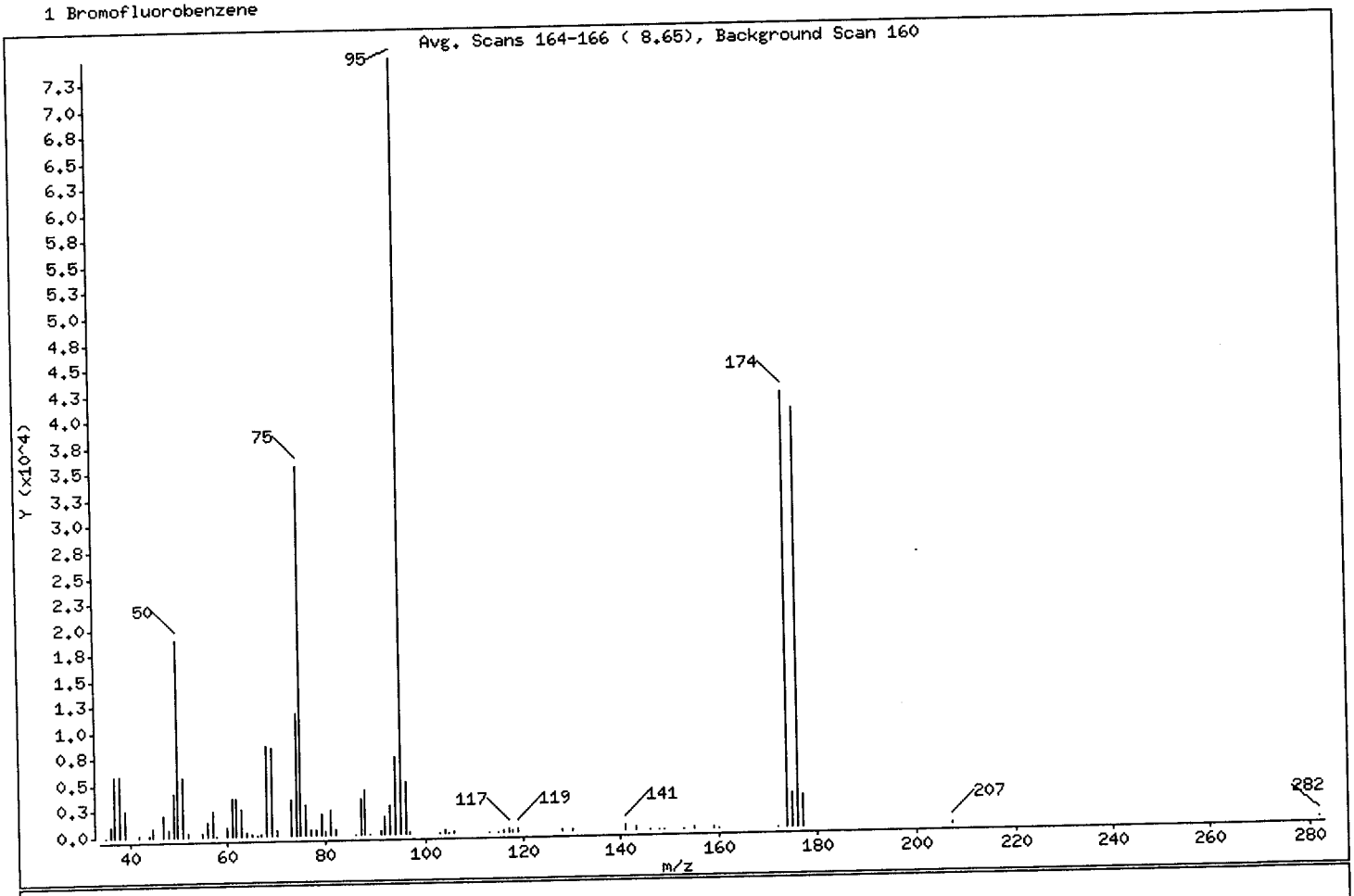
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	25.23
75	30.00 - 60.00% of mass 95	47.49
96	5.00 - 9.00% of mass 95	6.68
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	56.08
175	5.00 - 9.00% of mass 174	4.36 (7.78)
176	95.01 - 100.99% of mass 174	53.96 (96.23)
177	5.00 - 9.00% of mass 176	4.11 (7.61)

03/21/06

LW 3-20-06

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\032006.b\HCK10.D

Date : 20-MAR-2006 12:48

Client ID: bfb tune std

Instrument: MSVOA08.i

Sample Info: BFB,S2327

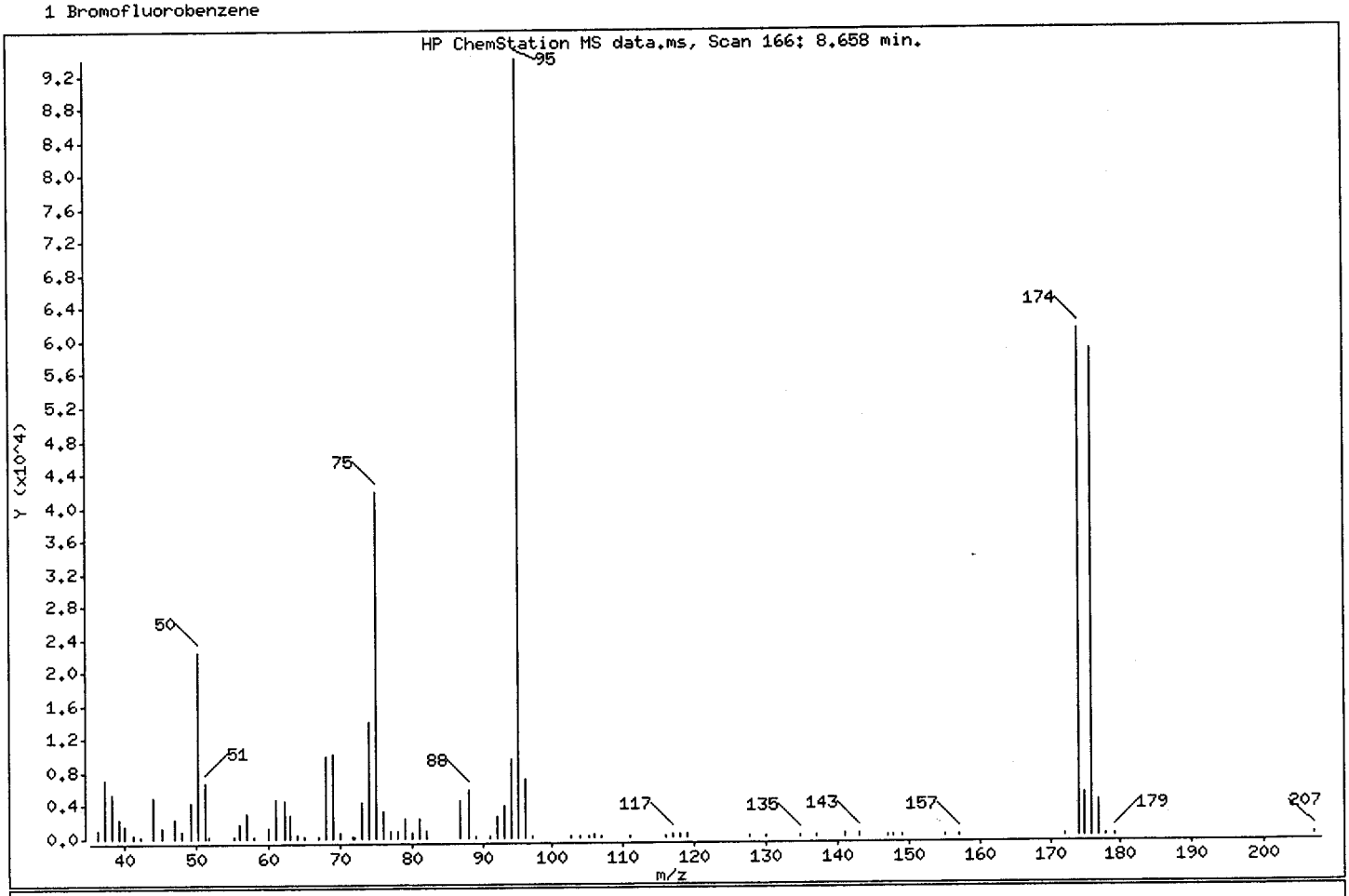
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.00
75	30.00 - 60.00% of mass 95	44.60
96	5.00 - 9.00% of mass 95	7.49
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	65.01
175	5.00 - 9.00% of mass 174	5.60 (8.61)
176	95.01 - 100.99% of mass 174	62.44 (96.05)
177	5.00 - 9.00% of mass 176	4.69 (7.51)

03/21/06

LW 3-20-06

MS VOA 10 8260X W. ICAL TUNE

Data File: \\GCMSSERVER\DD\chem\MSVOA10.i\031606.b\JCG06.D

Date : 16-MAR-2006 12:38

Client ID: bfb tune std

Instrument: MSVOA10.i

Sample Info: BFB,S2327

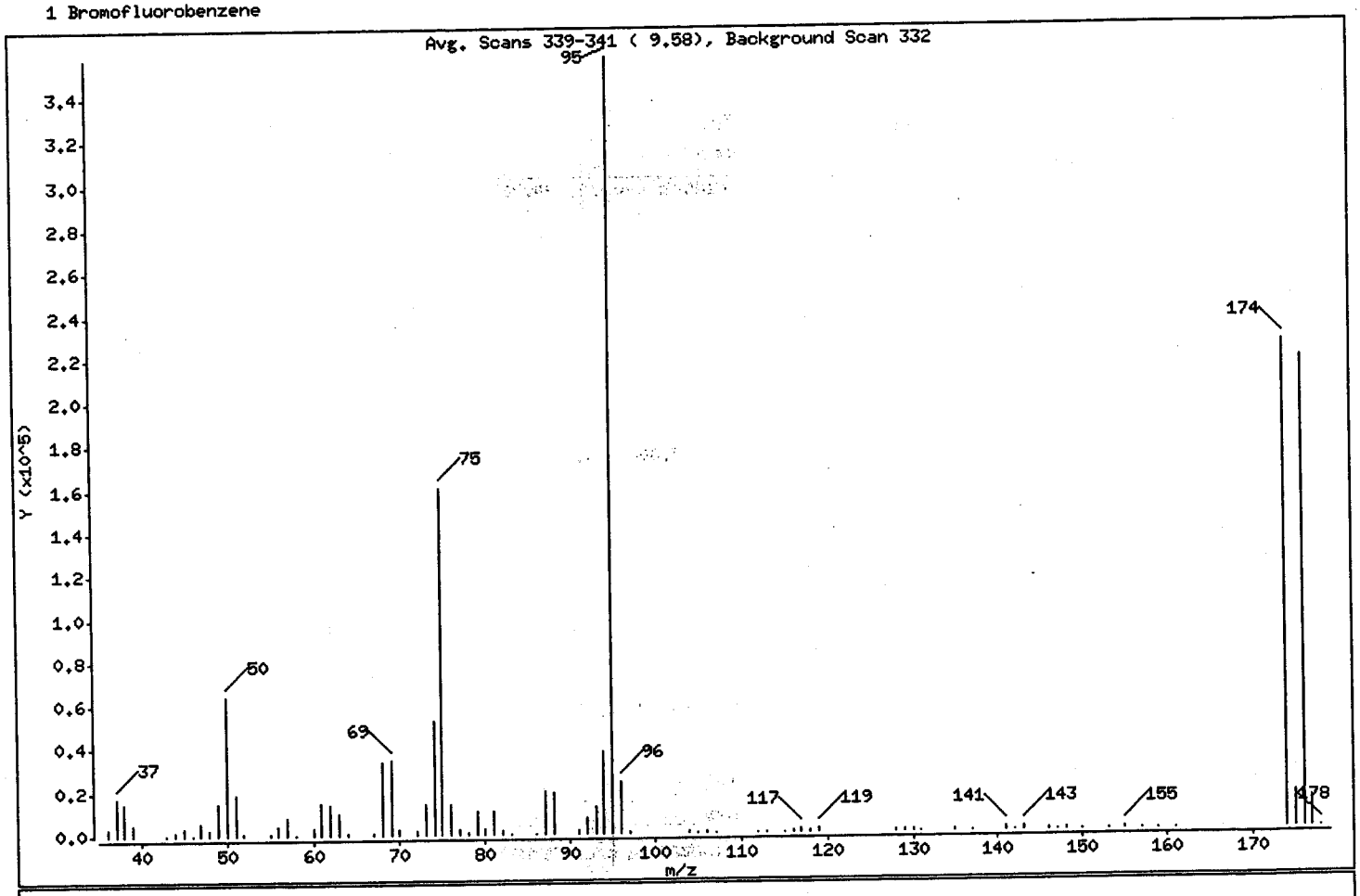
Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.02
75	30.00 - 60.00% of mass 95	44.93
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	62.83
175	5.00 - 9.00% of mass 174	4.55 (7.25)
176	95.01 - 100.99% of mass 174	60.80 (96.76)
177	5.00 - 9.00% of mass 176	3.85 (6.33)

03/17/06

3/17/06

Data File: \\GCMSSERVER\DD\chem\MSVOA10.i\031706.b\JCH01.D

Date : 17-MAR-2006 10:26

Client ID: bfb tune std

Instrument: MSVOA10.i

Sample Info: BFB,S2327

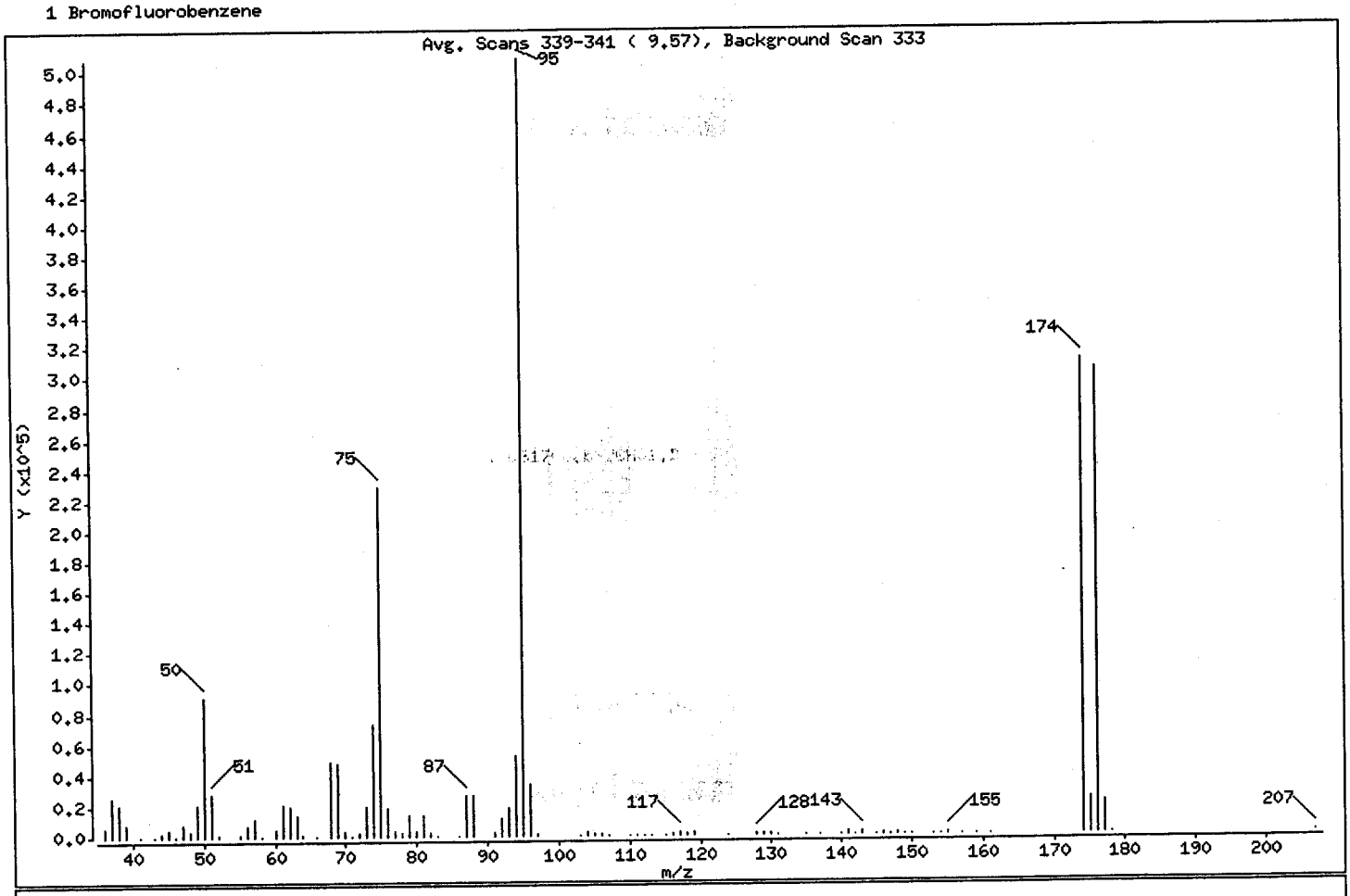
Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.99
75	30.00 - 60.00% of mass 95	44.97
96	5.00 - 9.00% of mass 95	6.58
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	60.94
175	5.00 - 9.00% of mass 174	4.63 (7.61)
176	95.01 - 100.99% of mass 174	59.81 (98.15)
177	5.00 - 9.00% of mass 176	4.05 (6.77)

03/20

03/17/06

Data File: \\GCMSSERVER\DD\chem\MSVOA10.i\031706.b\JCH08.D

Date : 17-MAR-2006 16:03

Client ID: bfb tune std

Instrument: MSVOA10.i

Sample Info: BFB,S2327

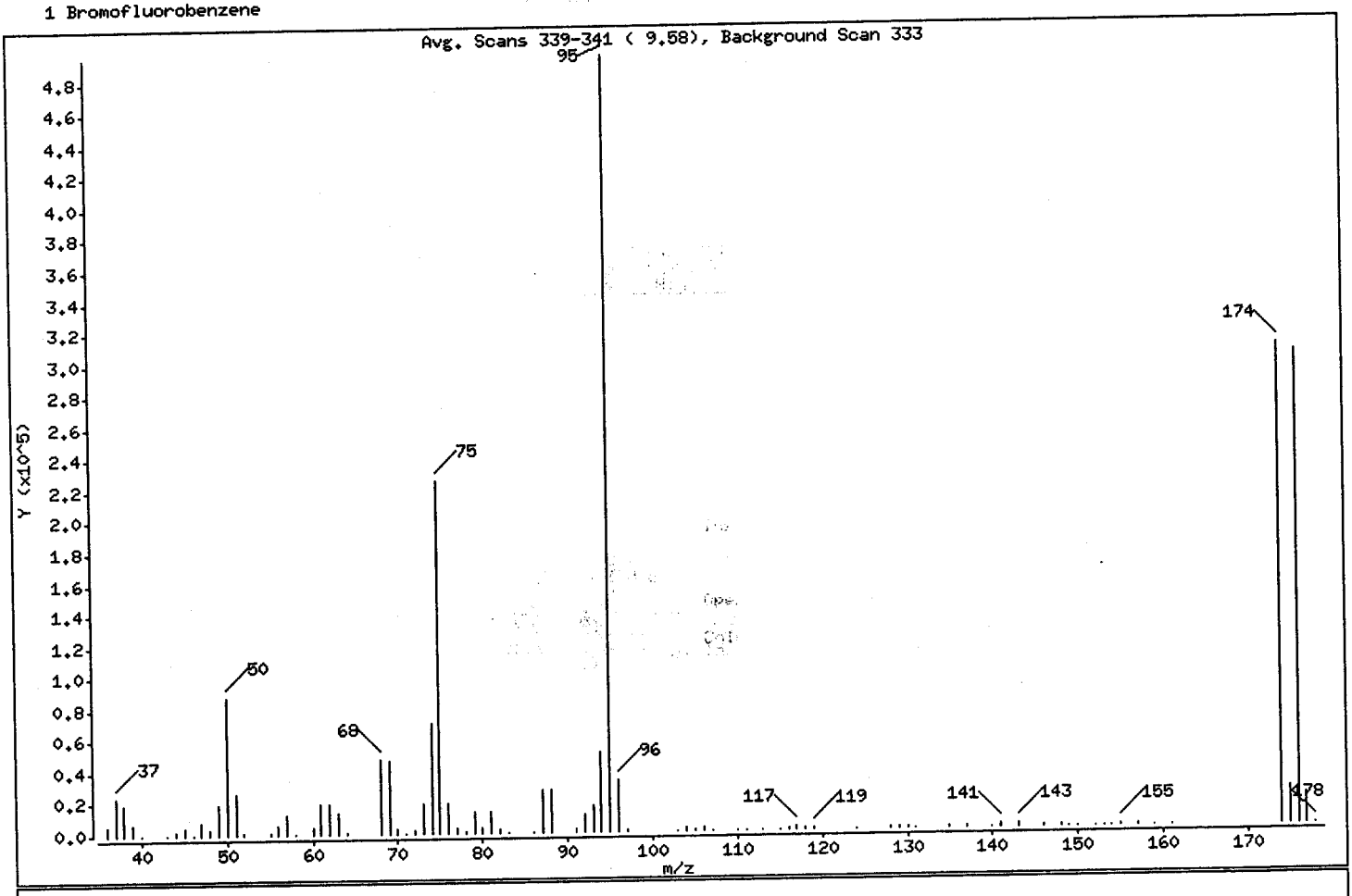
Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.71
75	30.00 - 60.00% of mass 95	45.54
96	5.00 - 9.00% of mass 95	6.75
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	61.74
175	5.00 - 9.00% of mass 174	4.87 (7.89)
176	95.01 - 100.99% of mass 174	60.87 (98.58)
177	5.00 - 9.00% of mass 176	3.99 (6.55)

3/17/06

3/17/06

8260/6A50X w 1ac

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 8260B

Inst : MSVOA06
Calnum : 456098395001
Units : ug/L

Name : 826GOX6W
Date : 09-MAR-2006 16:16
X Axis : R

Type : WATER

Inj Vol: 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	fc915	456098395015	0.25/0.5PPB	09-MAR-2006 16:16	S2783 (1000000X), S2844 (2000000X), S2410 (2000000X), S2740 (1000X)
L2	fc916	456098395016	0.5/1PPB	09-MAR-2006 16:52	S2783 (500000X), S2844 (1000000X), S2410 (1000000X), S2740 (1000X)
L3	fc917	456098395017	2PPB	09-MAR-2006 17:27	S2783 (250000X), S2844 (250000X), S2410 (500000X), S2740 (1000X)
L4	fc918	456098395018	5PPB	09-MAR-2006 18:02	S2783 (100000X), S2844 (100000X), S2410 (200000X), S2740 (1000X)
L5	fc919	456098395019	10PPB	09-MAR-2006 18:37	S2783 (50000X), S2844 (50000X), S2410 (100000X), S2740 (1000X)
L6	fc920	456098395020	20PPB	09-MAR-2006 19:12	S2783 (25000X), S2844 (25000X), S2410 (50000X), S2740 (1000X)
L7	fc921	456098395021	50PPB	09-MAR-2006 19:47	S2783 (10000X), S2844 (10000X), S2410 (20000X), S2740 (1000X)
L8	fc922	456098395022	75PPB	09-MAR-2006 20:21	S2783 (6667X), S2844 (6667X), S2410 (13330X), S2740 (1000X)
L9	fc923	456098395023	100PPB	09-MAR-2006 20:56	S2783 (5000X), S2844 (5000X), S2410 (10000X), S2740 (1000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12	0.8680m	0.9680	0.5765m	0.8744	0.8792	0.9150	0.8965	0.9524	0.9525	AVRG		1.14177		0.8758	13	15	0.050	0.99	
Chloromethane		1.0407	0.8197	0.8861	0.8718	0.8601	0.8426	0.8646	0.8790	AVRG		1.13239		0.8831	8	15	0.10	0.99	
Vinyl Chloride		0.7171	0.6051	0.6632	0.7163	0.7452	0.6887	0.7352	0.7344	AVRG		1.42726		0.7006	7	15	0.050	0.99	
Bromomethane		0.6024	0.4323	0.3774m	0.4453	0.4379	0.4506	0.4719	0.4856	AVRG		2.16027		0.4629	14	15	0.050	0.99	147
Chloroethane		0.4613m	0.3695	0.3667	0.3963	0.3751	0.3702	0.3794	0.3705	AVRG		2.58977		0.3861	8	15	0.050	0.99	
Trichlorofluoromethane	0.9028	1.0932	0.6600	0.9526	1.0108	1.0176	0.9709	1.0589	1.0651	AVRG		1.03072		0.9702	13	15	0.050	0.99	
Acetone			0.4219	0.3756	0.3368	0.3359	0.3388	0.3409	0.3619	AVRG		2.78684		0.3588	9	15	0.050	0.99	
Freon 113	0.2691m	0.5570	0.4360	0.4137	0.3677	0.6318	0.5175	0.5803	0.6012	QUAD	0.47698	1.92489	-0.00450	0.4860	0.997	15	0.050	0.99	
1,1-Dichloroethene		0.7352	0.5763	0.5128	0.5011	0.6118	0.5362	0.5891	0.5653	AVRG		1.72864		0.5785	13	15	0.050	0.99	
Methylene Chloride			0.9139	0.8434	0.8800	0.8331	0.8253	0.8177	0.7888	AVRG		1.18602		0.8432	5	15	0.050	0.99	
Carbon Disulfide	2.2837	2.6686	2.2949	2.2764	2.2065	2.5367	2.2333	2.3902	2.3117	AVRG		0.42449		2.3558	6	15	0.050	0.99	
MTBE	2.3719	2.6069	2.3672	2.3297	2.4759	2.3751	2.2817	2.2760	2.2110	AVRG		0.42263		2.3661	5	15	0.050	0.99	
trans-1,2-Dichloroethene	0.8087	0.8602	0.7243	0.6502	0.6899	0.7306	0.6509	0.6857	0.6557	AVRG		1.39398		0.7174	10	15	0.050	0.99	
Vinyl Acetate			1.9969	2.0862	2.3777	2.3751	2.1802	2.1010	1.6685	AVRG		0.47343		2.1122	12	15	0.050	0.99	
1,1-Dichloroethane	1.3957	1.3639	1.3232	1.2979	1.3981	1.3860	1.2808	1.2798	1.2290	AVRG		0.75287		1.3283	5	15	0.10	0.99	
2-Butanone			0.5173	0.5270	0.5376	0.5134	0.5002	0.4880	0.4823	AVRG		1.96307		0.5094	4	15	0.050	0.99	
2,2-Dichloropropane	0.9564	0.9889	0.8727	0.8184	0.8080	0.8908	0.8009	0.8201	0.7889	AVRG		1.16202		0.8606	8	15	0.050	0.99	
cis-1,2-Dichloroethene	0.9107	1.1319	0.8972	0.7496	0.8309	0.8146	0.7717	0.7577	0.7354	AVRG		1.18426		0.8444	15	15	0.050	0.99	
Chloroform	1.3805	1.3756	1.3398	1.2327	1.3778	1.3326	1.2646	1.2664	1.2263	AVRG		0.76295		1.3107	5	15	0.050	0.99	
Bromochloromethane	0.4203	0.4021	0.3837	0.3777	0.4174	0.4032	0.3915	0.3833	0.3676	AVRG		2.53746		0.3941	5	15	0.050	0.99	
1,1,1-Trichloroethane		1.0081	0.8067	0.8058	0.8046	0.9240	0.8224	0.8722	0.8424	AVRG		1.16175		0.8608	8	15	0.050	0.99	
1,1-Dichloropropene	0.4858	0.5312	0.4502	0.4425	0.3977	0.5194	0.4552	0.4808	0.4704	AVRG		2.12606		0.4704	9	15	0.050	0.99	
Carbon Tetrachloride		0.3073	0.2921	0.2937	0.2606	0.3804	0.3380	0.3706	0.3665	AVRG		3.06619		0.3261	13	15	0.050	0.99	
1,2-Dichloroethane	0.4942	0.5146	0.5630	0.5277	0.5457	0.5374	0.5191	0.5090	0.4981	AVRG		1.91131		0.5232	4	15	0.050	0.99	

456098395001

* ICAL - 2CLEVE fails min RF

pr 3/10/06

* ICV - OK, USACE - sec-butben↑, n-butben↑, Hxclben↑

03/13/06

8260/624SA w ICAL

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene	1.6327	1.7415	1.5949	1.5390	1.5479	1.6182	1.4706	1.4944	1.4202	AVRG		0.64014		1.5622	6	15	0.050	0.99	
Trichloroethene	0.3756	0.3562	0.3979	0.3748	0.3444	0.3855	0.3552	0.3686	0.3644	AVRG		2.70866		0.3692	4	15	0.050	0.99	
1,2-Dichloropropane	0.4914	0.4838	0.4456	0.4445	0.4699	0.4661	0.4333	0.4225	0.4047	AVRG		2.21578		0.4513	6	15	0.050	0.99	
Bromodichloromethane	0.4830	0.5465	0.5319	0.5177	0.5563	0.5546	0.5379	0.5303	0.5163	AVRG		1.88501		0.5305	4	15	0.050	0.99	
Dibromomethane	0.3219	0.2846	0.3084	0.3282	0.3310	0.3215	0.3095	0.3076	0.2984	AVRG		3.20146		0.3124	5	15	0.050	0.99	
2-Chloroethylvinylether				0.0290	0.0425	0.0536	0.0254	0.0156	0.0146	AVRG		33.2104		0.0301	51	15	0.050	0.99	irf rsd ***
4-Methyl-2-Pentanone			0.5392	0.5694	0.5708	0.5734	0.5627	0.5453	0.5209	AVRG		1.80333		0.5545	4	15	0.050	0.99	
Tetramethyl THF	0.9159	0.9813	0.9650	1.0086	1.0453	1.0237	0.9698	0.9221	0.8787	AVRG		1.03322		0.9678	6	15	0.050	0.99	
cis-1,3-Dichloropropene	0.6435	0.6884	0.7029	0.6696	0.7113	0.7213	0.6799	0.6556	0.6275	AVRG		1.47543		0.6778	5	15	0.050	0.99	
Toluene	0.9220	0.9482	0.8704	0.8678	0.8594	0.9253	0.8658	0.8502	0.8110	AVRG		1.13637		0.8800	5	15	0.050	0.99	
trans-1,3-Dichloropropene	0.6287	0.5668	0.6534	0.6399	0.6423	0.6569	0.6248	0.6181	0.5994	AVRG		1.59850		0.6256	5	15	0.050	0.99	
1,1,2-Trichloroethane	0.2389	0.2273	0.2398	0.2266	0.2371	0.2267	0.2268	0.2233	0.2084	AVRG		4.37964		0.2283	4	15	0.050	0.99	
2-Hexanone			0.4755	0.4579	0.4988	0.4708	0.4743	0.4590	0.4522	AVRG		2.12866		0.4698	3	15	0.050	0.99	
1,3-Dichloropropane	0.8071	0.8843	0.8389	0.8337	0.8725	0.8567	0.8344	0.8163	0.7853	AVRG		1.19534		0.8366	4	15	0.050	0.99	
Tetrachloroethene	0.2946	0.3850	0.3426	0.3281	0.2957	0.3734	0.3402	0.3726	0.3683	AVRG		2.90285		0.3445	10	15	0.050	0.99	
Dibromochloromethane		0.4320	0.4554	0.4456	0.4904	0.4897	0.4855	0.5015	0.4889	AVRG		2.11142		0.4736	5	15	0.050	0.99	
1,2-Dibromoethane	0.4131	0.4720	0.4227	0.4372	0.4254	0.4444	0.4276	0.4156	0.4013	AVRG		2.33205		0.4288	5	15	0.050	0.99	
Chlorobenzene	1.1003	1.1189	1.1375	1.0887	1.1030	1.1325	1.0837	1.0870	1.0463	AVRG		0.90929		1.0998	3	15	0.30	0.99	
1,1,1,2-Tetrachloroethane	0.4216	0.4183	0.4392	0.3942	0.4086	0.4121	0.3960	0.3993	0.3792	AVRG		2.45334		0.4076	4	15	0.050	0.99	
Ethylbenzene	1.7509	1.9418	1.7223	1.7955	1.8120	1.9422	1.7826	1.8095	1.7055	AVRG		0.55342		1.8069	5	15	0.050	0.99	
m,p-Xylenes	0.6465	0.6812	0.6719	0.6486	0.6238	0.6676	0.6196	0.6283	0.5981	AVRG		1.55558		0.6428	4	15	0.050	0.99	
o-Xylene	0.6716	0.6655	0.6582	0.6666	0.6714	0.6702	0.6379	0.6472	0.6196	AVRG		1.52326		0.6565	3	15	0.050	0.99	
Styrene	1.1253	1.1203	1.1839	1.1608	1.2220	1.1939	1.1716	1.1703	1.1136	AVRG		0.86028		1.1624	3	15	0.050	0.99	
Bromoform		0.4158	0.3725	0.3668	0.3776	0.3781	0.3815	0.3951	0.3865	AVRG		2.60262		0.3842	4	15	0.10	0.99	
Isopropylbenzene	3.0450	3.7105	2.9352	2.9640	2.6546	3.1567	2.9111	2.9636	2.8824	AVRG		0.33060		3.0248	10	15	0.050	0.99	
1,1,2,2-Tetrachloroethane	1.4511	1.5750	1.5714	1.5398	1.5179	1.5289	1.4592	1.4001	1.2839	AVRG		0.67530		1.4808	6	15	0.30	0.99	
1,2,3-Trichloropropane		1.3699	1.2860	1.3461	1.2292	1.1989	1.1012	1.1063	1.0055	AVRG		0.82961		1.2054	11	15	0.050	0.99	
Propylbenzene	4.0372	4.5130	3.7305	3.6589	3.2640	3.9504	3.4912	3.6230	3.4066	AVRG		0.26726		3.7416	10	15	0.050	0.99	
Bromobenzene		1.1139	1.0469	1.0733	1.0018	1.0426	0.9966	0.9976	0.9548	AVRG		0.97236		1.0284	5	15	0.050	0.99	
1,3,5-Trimethylbenzene	2.2600	2.1966	2.2475	2.1688	2.0293	2.3001	2.1633	2.2516	2.1361	AVRG		0.45562		2.1948	4	15	0.050	0.99	
2-Chlorotoluene		3.4188	3.0168	2.8451	2.7407	2.8866	2.6995	2.7496	2.5443	AVRG		0.34932		2.8627	9	15	0.050	0.99	
4-Chlorotoluene		3.0431	2.7497	2.6703	2.5756	2.6852	2.5424	2.5817	2.4097	AVRG		0.37633		2.6572	7	15	0.050	0.99	
tert-Butylbenzene	1.8662	1.9510	1.7346	1.7486	1.5081	1.8648	1.7394	1.8192	1.7691	AVRG		0.56246		1.7779	7	15	0.050	0.99	
1,2,4-Trimethylbenzene	2.1543	1.9648	2.0970	2.0597	1.9258	2.1315	2.1157	2.2225	2.1158	AVRG		0.47905		2.0875	4	15	0.050	0.99	
sec-Butylbenzene	2.3308	2.6293	2.4399	2.3495	2.0214	2.7492	2.5343	2.6894	2.6025	AVRG		0.40275		2.4829	9	15	0.050	0.99	
para-Isopropyl Toluene	1.5801	1.7641	1.6028	1.6276	1.4714	1.8970	1.7755	1.9361	1.9108	AVRG		0.57820		1.7295	10	15	0.050	0.99	
1,3-Dichlorobenzene		1.6988	1.5733	1.5941	1.5727	1.5986	1.5691	1.5947	1.5144	AVRG		0.62914		1.5895	3	15	0.050	0.99	
1,4-Dichlorobenzene		1.7472	1.6169	1.6416	1.5713	1.6334	1.5981	1.6118	1.5410	AVRG		0.61722		1.6202	4	15	0.050	0.99	
n-Butylbenzene	1.2556m	1.2680	1.1694	1.2384	1.1150	1.5480	1.4932	1.6751		AVRG		0.74330		1.3453	15	15	0.050	0.99	
1,2-Dichlorobenzene	1.6166	1.5880	1.6074	1.5255	1.5923	1.6263	1.5827	1.6034	1.5227	AVRG		0.63091		1.5850	2	15	0.050	0.99	
1,2-Dibromo-3-Chloropropane		0.4470	0.2579	0.2564	0.2580	0.2398	0.2539	0.2490	0.2346	QUAD	0.47192	3.56985	0.026979	0.2746	0.999	15	0.050	0.99	

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456098395001

8260/GASDA w ICAL

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
,2,4-Trichlorobenzene		0.2944	0.2500	0.3087	0.3271	0.4092	0.4596	0.5190		QUAD	0.92464	2.49106	-0.01515	0.3669	1.000	15	0.050	0.99	
exachlorobutadiene		0.1187	0.1187	0.1651	0.1497	0.2176	0.1989	0.2202		QUAD	0.60549	5.24561	-0.04346	0.1698	0.998	15	0.050	0.99	
aphthalene		0.9088	1.1015	1.2352	1.2876	1.4547	1.5128	1.6406		QUAD	0.38280	0.72437	-0.00095	1.3059	1.000	15	0.050	0.99	
,2,3-Trichlorobenzene		0.0995	0.1978	0.2610	0.3083	0.3840	0.4492	0.4988		QUAD	1.33161	2.52321	-0.01492	0.3141	0.999	15	0.050	0.99	
ert-Butyl Alcohol (TBA)		0.0818	0.0805	0.0738	0.0815	0.0735	0.0736	0.0724	0.0699	AVRG		13.1818		0.0759	6	15	0.005	0.99	
sopropyl Ether (DIPE)	3.2567	3.3956	3.2417	3.2117	3.3782	3.2997	3.1147	3.0586	2.9453	AVRG		0.31139		3.2114	5	15	0.050	0.99	
thyl tert-Butyl Ether (ETBE)	2.3188	2.6225	2.2969	2.3394	2.5024	2.4089	2.3275	2.2862	2.2246	AVRG		0.42200		2.3697	5	15	0.050	0.99	
ethyl tert-Amyl Ether (TAME)	1.2958	1.2847	1.2257	1.2293	1.2872	1.2825	1.2181	1.1963	1.1444	AVRG		0.80616		1.2404	4	15	0.050	0.99	
thanol			0.0110	0.0102	0.0106	0.0105	0.0104	0.0099	0.0093	AVRG		97.4264		0.0103	5	15	0.0005	0.99	
sopropanol			0.0559	0.0548	0.0603	0.0557	0.0549	0.0526	0.0503	AVRG		18.2030		0.0549	6	15	0.005	0.99	
etrahydrofuran		0.3409	0.3051	0.2903	0.2975	0.2769	0.2565	0.2379	0.2247	AVRG		3.58787		0.2787	14	15	0.005	0.99	
ibromofluoromethane	0.6644	0.6697	0.6638	0.6731	0.6917	0.6728	0.6624	0.6531	0.6477	AVRG		1.50037		0.6665	2	15	0.050	0.99	
,2-Dichloroethane-d4	0.4089	0.4041	0.4036	0.4047	0.4117	0.4195	0.3956	0.3924	0.3907	AVRG		2.47863		0.4034	2	15	0.050	0.99	
rifluorotoluene	0.3443	0.4122	0.3901	0.3862	0.3403	0.4826	0.4069	0.4535	0.4452	AVRG		2.45821		0.4068	12	15	0.050	0.99	
oluene-d8	1.0901	1.0831	1.0992	1.0967	1.0656	1.1116	1.0928	1.0808	1.0799	AVRG		0.91840		1.0888	1	15	0.050	0.99	
romofluorobenzene	1.2572	1.2682	1.1891	1.2097	1.1794	1.1768	1.1763	1.1778	1.1406	AVRG		0.83526		1.1972	3	15	0.050	0.99	

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for incomplete integration in target

rf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure

VRG=Average response factor QUAD=Quadratic regression

nstrument amount = a0 + response * a1 + response^2 * a2

456098395001

8260 /6450X w 1ccl

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA06
Seqnum : 456098395024
Cal : 456098395001
Standards: S2807 (10000X), S2740 (1000X)

Run Name: 25PPB
File : fc924
Caldate : 09-MAR-2006

IDF : 1.0
Time : 09-MAR-2006 21:30
Caltype : WATER

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	0.8758	0.7055	25.00	20.14	ug/L	-19	30	
Chloromethane	0.8831	0.8040	25.00	22.76	ug/L	-9	30	
Vinyl Chloride	0.7006	0.6130	25.00	21.87	ug/L	-13	20	
Bromomethane	0.4629	0.4255	25.00	22.98	ug/L	-8	30	
Chloroethane	0.3861	0.3493	25.00	22.61	ug/L	-10	30	
Trichlorofluoromethane	0.9702	0.8571	25.00	22.09	ug/L	-12	30	

ISTD (ICAL fc921)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	957753	1022053	6.71	12.35	12.35	0.00
1,4-Difluorobenzene	1704082	1828587	7.31	13.66	13.67	0.01
1,4-Dichlorobenzene-d4	701343	686381	-2.13	21.16	21.17	0.01

m 3/10/06

Q 03/13/07

8260/6ASOP w 10SL

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA06 Run Name: 25PPB IDF : 1.0
Seqnum : 456098395025 File : fc925 Time : 09-MAR-2006 22:05
Cal : 456098395001 Caldate : 09-MAR-2006 Caltype : WATER
Standards: S2829 (10000X), S2616 (10000X), S2740 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Acetone	0.3588	0.3207	25.00	22.34	ug/L	-11	40	
Freon 113	0.4860	0.5646	25.00	26.75	ug/L	7	30	
1,1-Dichloroethene	0.5785	0.6442	25.00	27.84	ug/L	11	20	
Methylene Chloride	0.8432	0.8715	25.00	25.84	ug/L	3	30	
Carbon Disulfide	2.3558	2.0922	25.00	22.20	ug/L	-11	30	
MTBE	2.3661	2.0964	25.00	22.15	ug/L	-11	30	
trans-1,2-Dichloroethene	0.7174	0.7242	25.00	25.24	ug/L	1	30	
Vinyl Acetate	2.1122	1.8626	25.00	22.05	ug/L	-12	40	
1,1-Dichloroethane	1.3283	1.3711	25.00	25.81	ug/L	3	30	
2-Butanone	0.5094	0.4759	25.00	23.36	ug/L	-7	40	
2,2-Dichloropropane	0.8606	0.8416	25.00	24.45	ug/L	-2	30	
cis-1,2-Dichloroethene	0.8444	0.8337	25.00	24.68	ug/L	-1	30	
Chloroform	1.3107	1.3268	25.00	25.31	ug/L	1	20	
Bromochloromethane	0.3941	0.4178	25.00	26.51	ug/L	6	30	
1,1,1-Trichloroethane	0.8608	0.9237	25.00	26.83	ug/L	7	30	
1,1-Dichloropropene	0.4704	0.5267	25.00	28.00	ug/L	12	30	
Carbon Tetrachloride	0.3261	0.3791	25.00	29.06	ug/L	16	30	
1,2-Dichloroethane	0.5232	0.5577	25.00	26.65	ug/L	7	30	
Benzene	1.5622	1.6037	25.00	25.67	ug/L	3	30	
Trichloroethene	0.3692	0.4055	25.00	27.46	ug/L	10	30	
1,2-Dichloropropane	0.4513	0.4670	25.00	25.87	ug/L	3	20	
Bromodichloromethane	0.5305	0.5960	25.00	28.09	ug/L	12	30	
Dibromomethane	0.3124	0.3284	25.00	26.28	ug/L	5	30	
2-Chloroethylvinylether	0.0301	0.0373	25.00	30.98	ug/L	24	40	
4-Methyl-2-Pentanone	0.5545	0.5477	25.00	24.69	ug/L	-1	40	
Tetramethyl THF	0.9678	0.9678	25.00	25.00	ug/L	0	30	
cis-1,3-Dichloropropene	0.6778	0.7226	25.00	26.65	ug/L	7	30	
Toluene	0.8800	0.9281	25.00	26.37	ug/L	5	20	
trans-1,3-Dichloropropene	0.6256	0.6188	25.00	24.73	ug/L	-1	30	
1,1,2-Trichloroethane	0.2283	0.2384	25.00	26.10	ug/L	4	30	
2-Hexanone	0.4698	0.4572	25.00	24.33	ug/L	-3	40	
1,3-Dichloropropane	0.8366	0.8871	25.00	26.51	ug/L	6	30	
Tetrachloroethene	0.3445	0.4018	25.00	29.16	ug/L	17	30	
Dibromochloromethane	0.4736	0.5292	25.00	27.93	ug/L	12	30	
1,2-Dibromoethane	0.4288	0.4408	25.00	25.70	ug/L	3	30	
Chlorobenzene	1.0998	1.2031	25.00	27.35	ug/L	9	30	
1,1,1,2-Tetrachloroethane	0.4076	0.4291	25.00	26.32	ug/L	5	30	
Ethylbenzene	1.8069	1.9826	25.00	27.43	ug/L	10	20	
m,p-Xylenes	0.6428	0.7003	50.00	54.46	ug/L	9	30	
o-Xylene	0.6565	0.7345	25.00	27.97	ug/L	12	30	
Styrene	1.1624	1.2711	25.00	27.34	ug/L	9	30	
Bromoform	0.3842	0.3988	25.00	25.95	ug/L	4	30	
Isopropylbenzene	3.0248	3.1560	25.00	26.08	ug/L	4	30	
1,1,2,2-Tetrachloroethane	1.4808	1.5428	25.00	26.05	ug/L	4	30	
1,2,3-Trichloropropane	1.2054	1.2151	25.00	25.20	ug/L	1	30	
Propylbenzene	3.7416	4.1461	25.00	27.70	ug/L	11	30	
Bromobenzene	1.0284	1.0770	25.00	26.18	ug/L	5	30	
1,3,5-Trimethylbenzene	2.1948	2.4158	25.00	27.52	ug/L	10	30	
2-Chlorotoluene	2.8627	3.1165	25.00	27.22	ug/L	9	30	

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8260/6450D w tcal

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
4-Chlorotoluene	2.6572	2.7919	25.00	26.27	ug/L	5	30	
tert-Butylbenzene	1.7779	2.0905	25.00	29.40	ug/L	18	30	
1,2,4-Trimethylbenzene	2.0875	2.2982	25.00	27.52	ug/L	10	30	
sec-Butylbenzene	2.4829	3.0149	25.00	30.36	ug/L	21	30	!v+
para-Isopropyl Toluene	1.7295	1.9878	25.00	28.73	ug/L	15	30	
1,3-Dichlorobenzene	1.5895	1.7328	25.00	27.25	ug/L	9	30	
1,4-Dichlorobenzene	1.6202	1.7428	25.00	26.89	ug/L	8	30	
n-Butylbenzene	1.3453	1.7100	25.00	31.78	ug/L	27	30	!v+
1,2-Dichlorobenzene	1.5850	1.7149	25.00	27.05	ug/L	8	30	
1,2-Dibromo-3-Chloropropane	0.2746	0.2574	25.00	24.56	ug/L	-2	30	
1,2,4-Trichlorobenzene	0.3669	0.4580	25.00	27.46	ug/L	10	30	
Hexachlorobutadiene	0.1698	0.2538	25.00	32.14	ug/L	29	30	!v+
Naphthalene	1.3059	1.4870	25.00	25.99	ug/L	4	30	
1,2,3-Trichlorobenzene	0.3141	0.4352	25.00	27.02	ug/L	8	30	
tert-Butyl Alcohol (TBA)	0.0759	0.0664	125.0	109.5	ug/L	-12	30	
Isopropyl Ether (DIPE)	3.2114	2.9536	25.00	22.99	ug/L	-8	30	
Ethyl tert-Butyl Ether (ETBE)	2.3697	2.4151	25.00	25.48	ug/L	2	30	
Methyl tert-Amyl Ether (TAME)	1.2404	1.2070	25.00	24.33	ug/L	-3	30	
Ethanol	0.0103	0.0087	2500	2113	ug/L	-15	30	
Isopropanol	0.0549	0.0484	250.0	220.2	ug/L	-12	30	
Tetrahydrofuran	0.2787	0.2617	250.0	234.8	ug/L	-6	30	

ISTD (ICAL fc921)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	957753	988539	3.21	12.35	12.36	0.01
1,4-Difluorobenzene	1704082	1746226	2.47	13.66	13.67	0.01
Chlorobenzene-d5	1422227	1446564	1.71	18.32	18.33	0.01
1,4-Dichlorobenzene-d4	701343	702193	0.12	21.16	21.17	0.01

03/12/06

03/13/06

!=warning +=high bias v=ICV

456098395025

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC915.D
Report Date: 10-Mar-2006 08:54

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC915.D
Lab Smp Id:
Inj Date : 09-MAR-2006 16:16
Operator : BO
Smp Info : ICAL,S2783,0.001/1000,S2844,0.0005/1000,
Misc Info : S2410,0.0005/1000,0.25/0.5PPB, NP NL
Comment :
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Meth Date : 10-Mar-2006 08:53 target
Cal Date : 09-MAR-2006 16:16
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PC_MSVOA07

Client Smp ID: DYNA P&T
MS Autotune Date: 24-FEB-2006 08:08
Inst ID: MSVOA06.i

Quant Type: ISTD
Cal File: FC915.D
Calibration Sample, Level: 9

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.469	4.469	(0.362)	8252	0.50000	0.4955 (M)
2 Chloromethane	50	4.952	4.952	(0.401)	10029	0.50000	0.5973
3 Vinyl Chloride	62	5.199	5.199	(0.421)	5975	5.00000	0.4485 (M)
4 Bromomethane	94	6.026	6.026	(0.488)	3340	0.50000	0.3794 (M)
5 Chloroethane	64	6.233	6.233	(0.505)	3065	0.50000	0.4174
6 Trichlorofluoromethane	101	6.745	6.745	(0.547)	8582	0.50000	0.4652
7 Ethanol	45	7.257	7.257	(0.588)	7410	25.0000	37.9704
8 Freon 113	101	7.829	7.829	(0.634)	1279	0.25000	0.6064 (M)
9 1,1-Dichloroethene	96	7.927	7.927	(0.642)	3802	0.25000	0.3456 (M)
10 Acetone	43	8.144	8.144	(0.660)	3053	0.25000	0.4474
11 Isopropanol	45	8.361	8.361	(0.677)	3823	2.50000	3.6601
12 Carbon Disulfide	76	8.400	8.400	(0.681)	10855	0.25000	0.2423
13 Methylene Chloride	84	9.021	9.021	(0.731)	4995	0.25000	0.3115
14 tert-Butyl Alcohol (TBA)	59	9.149	9.149	(0.741)	4437	2.50000	3.0762
15 MTBE	73	9.415	9.415	(0.763)	11274	0.25000	0.2506
16 trans-1,2-Dichloroethene	96	9.474	9.474	(0.768)	3844	0.25000	0.2818

m3/10/06

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC915.D
Report Date: 10-Mar-2006 08:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 Isopropyl Ether (DIPE)	45	10.312	10.312	(0.836)	15480	0.25000	0.2535
19 Vinyl Acetate	43	10.400	10.400	(0.843)	10777	0.25000	0.2683
18 1,1-Dichloroethane	63	10.361	10.361	(0.840)	6634	0.25000	0.2626
20 Ethyl tert-Butyl Ether (ETBE)	59	10.981	10.981	(0.890)	11022	0.25000	0.2446
21 2,2-Dichloropropane	77	11.415	11.415	(0.925)	4546	0.25000	0.2778
22 cis-1,2-Dichloroethene	96	11.464	11.464	(0.929)	4329	0.25000	0.2696
23 2-Butanone	43	11.484	11.484	(0.931)	3003	0.25000	0.3100
24 Bromochloromethane	128	11.917	11.917	(0.966)	1998	0.25000	0.2666
25 Tetrahydrofuran	42	11.917	11.917	(0.966)	17032	0.25000	3.2140
26 Chloroform	83	11.996	11.996	(0.972)	6562	0.25000	0.2633
$ 27 Dibromofluoromethane	113	12.302	12.302	(0.997)	631597	50.0000	49.8412
28 1,1,1-Trichloroethane	97	12.311	12.311	(0.998)	3450	0.25000	0.2108
* 29 Pentafluorobenzene	168	12.341	12.341	(1.000)	950646	50.0000	
30 Carbon Tetrachloride	117	12.538	12.538	(0.918)	1976	0.25000	0.1798
31 1,1-Dichloropropene	75	12.597	12.597	(0.922)	4091	0.25000	0.2582
$ 32 1,2-Dichloroethane-d4	65	12.962	12.962	(0.949)	688673	50.0000	50.6763
33 Benzene	78	12.971	12.971	(0.950)	13749	0.25000	0.2612
34 Methyl tert-Amyl Ether (TAME)	73	13.060	13.060	(0.956)	10912	0.25000	0.2611
35 1,2-Dichloroethane	62	13.109	13.109	(0.960)	4162	0.25000	0.2361
* 36 1,4-Difluorobenzene	114	13.661	13.661	(1.000)	1684181	50.0000	
37 Trichloroethene	95	14.095	14.095	(1.032)	3163	0.25000	0.2543
38 1,2-Dichloropropane	63	14.577	14.577	(1.067)	4138	0.25000	0.2722
$ 39 Trifluorotoluene	146	14.597	14.597	(1.069)	2899	0.25000	0.2115
40 Dibromomethane	93	14.784	14.784	(1.082)	2711	0.25000	0.2576
41 Bromodichloromethane	83	15.011	15.011	(1.099)	4067	0.25000	0.2275
42 2-Chloroethylvinylether	63	15.503	15.503	(1.135)	672	0.25000	0.6625
43 Tetramethyl THF	43	15.759	15.759	(1.154)	7713	0.25000	0.2365
44 cis-1,3-Dichloropropene	75	15.779	15.779	(1.155)	5419	0.25000	0.2373
45 4-Methyl-2-Pentanone	43	15.976	15.976	(1.169)	4881	0.25000	0.2613
$ 46 Toluene-d8	98	16.163	16.163	(1.183)	1835860	50.0000	50.0556
47 Toluene	92	16.272	16.272	(1.191)	7764	0.25000	0.2619
48 trans-1,3-Dichloropropene	75	16.676	16.676	(1.221)	5294	0.25000	0.2512
49 1,1,2-Trichloroethane	85	16.952	16.952	(1.241)	2012	0.25000	0.2616
50 Tetrachloroethene	166	17.070	17.070	(0.932)	2037	0.25000	0.2137
51 1,3-Dichloropropane	76	17.227	17.227	(0.940)	5581	0.25000	0.2411
52 2-Hexanone	43	17.247	17.247	(0.941)	3055	0.25000	0.2351
53 Dibromochloromethane	129	17.523	17.523	(0.956)	2610	0.25000	0.1992
54 1,2-Dibromoethane	107	17.720	17.720	(1.297)	3479	0.25000	0.2408
* 55 Chlorobenzene-d5	117	18.321	18.321	(1.000)	1382915	50.0000	
56 Chlorobenzene	112	18.360	18.360	(1.002)	7608	0.25000	0.2501
57 Ethylbenzene	91	18.439	18.439	(1.006)	12107	0.25000	0.2422
58 1,1,1,2-Tetrachloroethane	131	18.459	18.459	(1.008)	2915	0.25000	0.2585
59 m,p-Xylenes	106	18.597	18.597	(1.015)	8941	0.50000	0.5028
60 o-Xylene	106	19.119	19.119	(1.044)	4644	0.25000	0.2557
61 Styrene	104	19.148	19.148	(1.045)	7781	0.25000	0.2420
62 Bromoform	173	19.434	19.434	(1.061)	3403	0.25000	0.3202
63 Isopropylbenzene	105	19.552	19.552	(0.924)	9674	0.25000	0.2516

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC915.D
Report Date: 10-Mar-2006 08:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone_	55	19.789	19.789	(0.935)	7466	0.25000	16.6745
$ 65 Bromofluorobenzene	95	19.808	19.808	(0.936)	798787	50.0000	52.5022
66 1,1,2,2-Tetrachloroethane	83	19.966	19.966	(0.944)	4610	0.25000	0.2449
67 Bromobenzene	156	20.015	20.015	(0.946)	3641	0.25000	0.2785
68 Propylbenzene	91	20.045	20.045	(0.947)	12826	0.25000	0.2697
69 1,2,3-Trichloropropane	75	20.055	20.055	(0.948)	5583	0.25000	0.3644
70 2-Chlorotoluene	91	20.203	20.203	(0.955)	11049	0.25000	0.3037
71 1,3,5-Trimethylbenzene	105	20.232	20.232	(0.956)	7180	0.25000	0.2574
72 4-Chlorotoluene	91	20.331	20.331	(0.961)	9837	0.25000	0.2913
73 tert-Butylbenzene	119	20.616	20.616	(0.974)	5929	0.25000	0.2624
74 1,2,4-Trimethylbenzene	105	20.675	20.675	(0.977)	6844	0.25000	0.2579
75 sec-Butylbenzene	105	20.872	20.872	(0.986)	7405	0.25000	0.2346
76 para-Isopropyl Toluene	119	21.010	21.010	(0.993)	5020	0.25000	0.2284
77 1,3-Dichlorobenzene	146	21.079	21.079	(0.996)	5775	0.25000	0.2859
* 78 1,4-Dichlorobenzene-d4	152	21.158	21.158	(1.000)	635395	50.0000	
79 1,4-Dichlorobenzene	146	21.188	21.188	(1.001)	6067	0.25000	0.2946
80 n-Butylbenzene	91	21.483	21.483	(1.015)	3989	0.25000	0.2333 (M)
81 1,2-Dichlorobenzene	146	21.641	21.641	(1.023)	5136	0.25000	0.2549
82 1,2-Dibromo-3-Chloropropane	75	22.597	22.597	(1.068)	1893	0.25000	1.0042 (M)
83 1,2,4-Trichlorobenzene	180	23.660	23.660	(1.118)	310	0.25000	0.9853 (M)
84 Hexachlorobutadiene	225	23.789	23.789	(1.124)	114	0.25000	0.6525 (M)
85 Naphthalene	128	24.074	24.074	(1.138)	2296	0.25000	0.5136
86 1,2,3-Trichlorobenzene	180	24.468	24.468	(1.156)	160	0.25000	1.3633 (M)

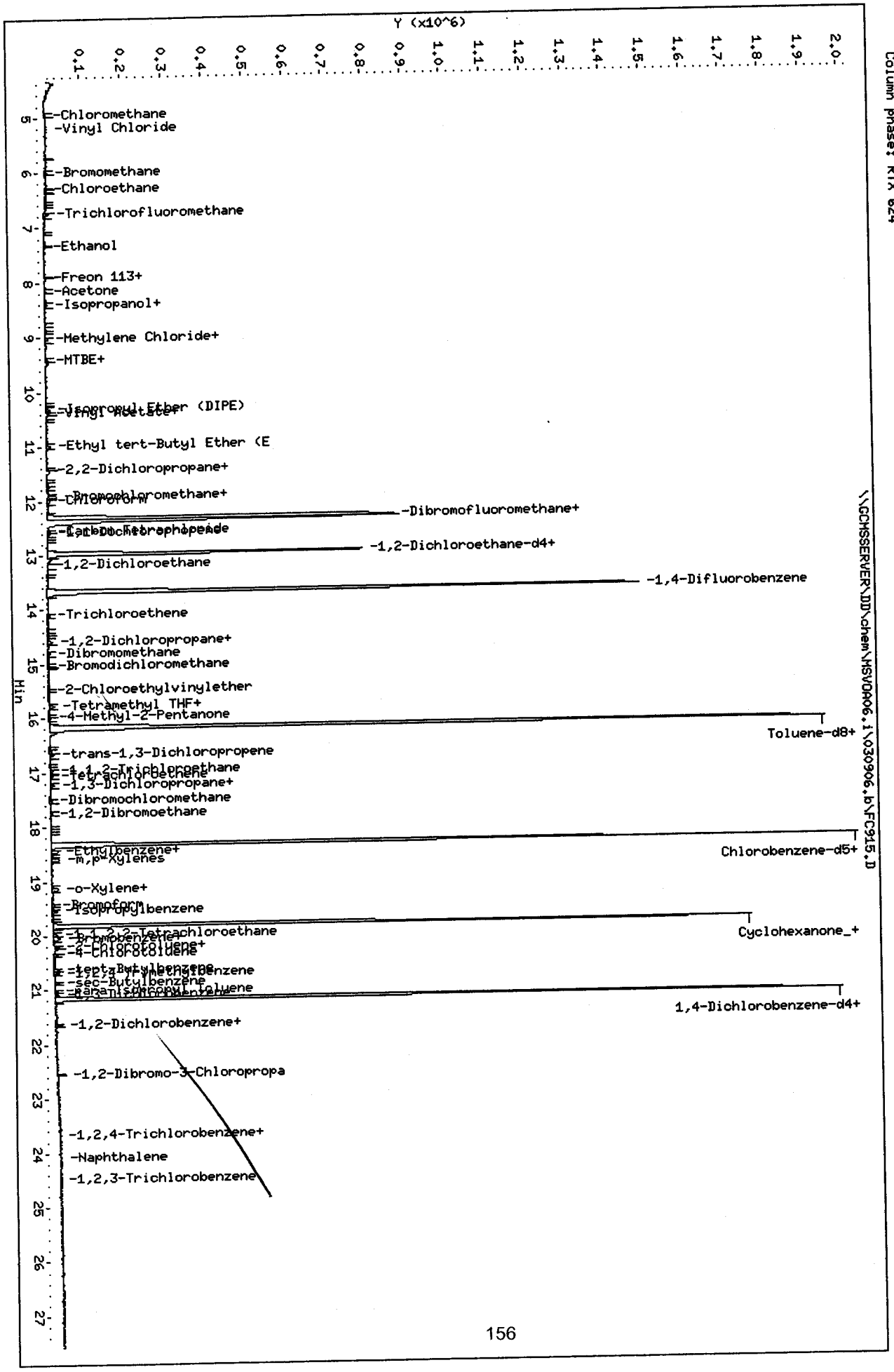
n 3 ratios

QC Flag Legend

M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC915.D
Date : 09-MAR-2006 16:16
Client ID: DYNA P&T
Sample Info: ICAL,S2783,0.001/1000,S2844,0.0005/1000,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA06.i
Operator: BO
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC916.D
Report Date: 10-Mar-2006 08:54

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC916.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 09-MAR-2006 16:52 MS Autotune Date: 24-FEB-2006 08:08
Operator : BO Inst ID: MSVOA06.i
Smp Info : ICAL,S2783,0.002/1000,S2844,0.001/1000,
Misc Info : S2410,0.001/1000,0.5/1PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\826GOX6W.m
Meth Date : 10-Mar-2006 08:54 target Quant Type: ISTD
Cal Date : 09-MAR-2006 16:16 Cal File: FC915.D
Als bottle: 16 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.462	4.462	(0.362)	17831	1.00000	1.1052
2 Chloromethane	50	4.964	4.964	(0.402)	19171	1.00000	1.1784
3 Vinyl Chloride	62	5.191	5.191	(0.421)	13210	1.00000	1.0235
4 Bromomethane	94	6.018	6.018	(0.488)	11096	1.00000	1.3012
5 Chloroethane	64	6.235	6.235	(0.505)	8498	1.00000	1.1947 (M) n-3110 lov
6 Trichlorofluoromethane	101	6.747	6.747	(0.547)	20138	1.00000	1.1267
7 Ethanol	45	7.260	7.260	(0.588)	10491	50.0000	55.4854
8 Freon 113	101	7.851	7.851	(0.636)	5130	0.50000	1.0126
9 1,1-Dichloroethene	96	7.930	7.930	(0.642)	6772	0.50000	0.6354
10 Acetone	43	8.146	8.146	(0.660)	4919	0.50000	0.7441
11 Isopropanol	45	8.353	8.353	(0.677)	6158	5.00000	6.0851
12 Carbon Disulfide	76	8.403	8.403	(0.681)	24579	0.50000	0.5663
13 Methylene Chloride	84	9.013	9.013	(0.730)	8777	0.50000	0.5650
14 tert-Butyl Alcohol (TBA)	59	9.151	9.151	(0.741)	7538	5.00000	5.3940
15 MTBE	73	9.417	9.417	(0.763)	24011	0.50000	0.5508
16 trans-1,2-Dichloroethene	96	9.486	9.486	(0.769)	7923	0.50000	0.5995

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC916.D
Report Date: 10-Mar-2006 08:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	10.314	10.314	(0.836)	31275	0.50000	0.5286
	19 Vinyl Acetate	43	10.383	10.383	(0.841)	21181	0.50000	0.5443
	18 1,1-Dichloroethane	63	10.373	10.373	(0.840)	12562	0.50000	0.5134
	20 Ethyl tert-Butyl Ether (ETBE)	59	10.984	10.984	(0.890)	24155	0.50000	0.5533
	21 2,2-Dichloropropane	77	11.407	11.407	(0.924)	9108	0.50000	0.5745
	22 cis-1,2-Dichloroethene	96	11.457	11.457	(0.928)	10425	0.50000	0.6702
	23 2-Butanone	43	11.476	11.476	(0.930)	6325	0.50000	0.6740
	24 Bromochloromethane	128	11.900	11.900	(0.964)	3704	0.50000	0.5102
	25 Tetrahydrofuran	42	11.920	11.920	(0.966)	31399	5.00000	6.1155
	26 Chloroform	83	11.998	11.998	(0.972)	12670	0.50000	0.5247
$	27 Dibromofluoromethane	113	12.304	12.304	(0.997)	616823	50.0000	50.2393
	28 1,1,1-Trichloroethane	97	12.304	12.304	(0.997)	9285	0.50000	0.5855
*	29 Pentafluorobenzene	168	12.343	12.343	(1.000)	921053	50.0000	
	30 Carbon Tetrachloride	117	12.550	12.550	(0.919)	5124	0.50000	0.4711
	31 1,1-Dichloropropene	75	12.599	12.599	(0.923)	8857	0.50000	0.5646
$	32 1,2-Dichloroethane-d4	65	12.964	12.964	(0.949)	673820	50.0000	50.0847
	33 Benzene	78	12.974	12.974	(0.950)	29036	0.50000	0.5573
	34 Methyl tert-Amyl Ether (TAME)	73	13.062	13.062	(0.957)	21420	0.50000	0.5178
	35 1,2-Dichloroethane	62	13.112	13.112	(0.960)	8580	0.50000	0.4917
*	36 1,4-Difluorobenzene	114	13.653	13.653	(1.000)	1667320	50.0000	
	37 Trichloroethene	95	14.087	14.087	(1.032)	5939	0.50000	0.4824
	38 1,2-Dichloropropane	63	14.580	14.580	(1.068)	8066	0.50000	0.5359
$	39 Trifluorotoluene	146	14.599	14.599	(1.069)	6873	0.50000	0.5066
	40 Dibromomethane	93	14.796	14.796	(1.084)	4746	0.50000	0.4556
	41 Bromodichloromethane	83	15.023	15.023	(1.100)	9112	0.50000	0.5150
	42 2-Chloroethylvinylether	63	15.496	15.496	(1.135)	788	1.00000	0.7847
	43 Tetramethyl THF	43	15.762	15.762	(1.154)	16362	0.50000	0.5069
	44 cis-1,3-Dichloropropene	75	15.781	15.781	(1.156)	11477	0.50000	0.5078
	45 4-Methyl-2-Pentanone	43	15.978	15.978	(1.170)	10252	0.50000	0.5544
$	46 Toluene-d8	98	16.166	16.166	(1.184)	1805813	50.0000	49.7342
	47 Toluene	92	16.264	16.264	(1.191)	15810	0.50000	0.5387
	48 trans-1,3-Dichloropropene	75	16.668	16.668	(1.221)	9451	0.50000	0.4530
	49 1,1,2-Trichloroethane	85	16.954	16.954	(1.242)	3789	0.50000	0.4976
	50 Tetrachloroethene	166	17.072	17.072	(0.932)	5289	0.50000	0.5587
	51 1,3-Dichloropropane	76	17.230	17.230	(0.940)	12149	0.50000	0.5285
	52 2-Hexanone	43	17.249	17.249	(0.941)	6388	0.50000	0.4948
	53 Dibromochloromethane	129	17.525	17.525	(0.956)	5935	0.50000	0.4560
	54 1,2-Dibromoethane	107	17.732	17.732	(1.299)	7869	0.50000	0.5503
*	55 Chlorobenzene-d5	117	18.323	18.323	(1.000)	1373800	50.0000	
	56 Chlorobenzene	112	18.363	18.363	(1.002)	15371	0.50000	0.5086
	57 Ethylbenzene	91	18.441	18.441	(1.006)	26676	0.50000	0.5373
	58 1,1,1,2-Tetrachloroethane	131	18.461	18.461	(1.008)	5747	0.50000	0.5131
	59 m,p-Xylenes	106	18.599	18.599	(1.015)	18716	1.00000	1.0596
	60 o-Xylene	106	19.121	19.121	(1.044)	9143	0.50000	0.5068
	61 Styrene	104	19.151	19.151	(1.045)	15391	0.50000	0.4818
	62 Bromoform	173	19.436	19.436	(1.061)	5712	0.50000	0.5410
	63 Isopropylbenzene	105	19.555	19.555	(0.924)	22904	0.50000	0.6133

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC916.D
Report Date: 10-Mar-2006 08:54

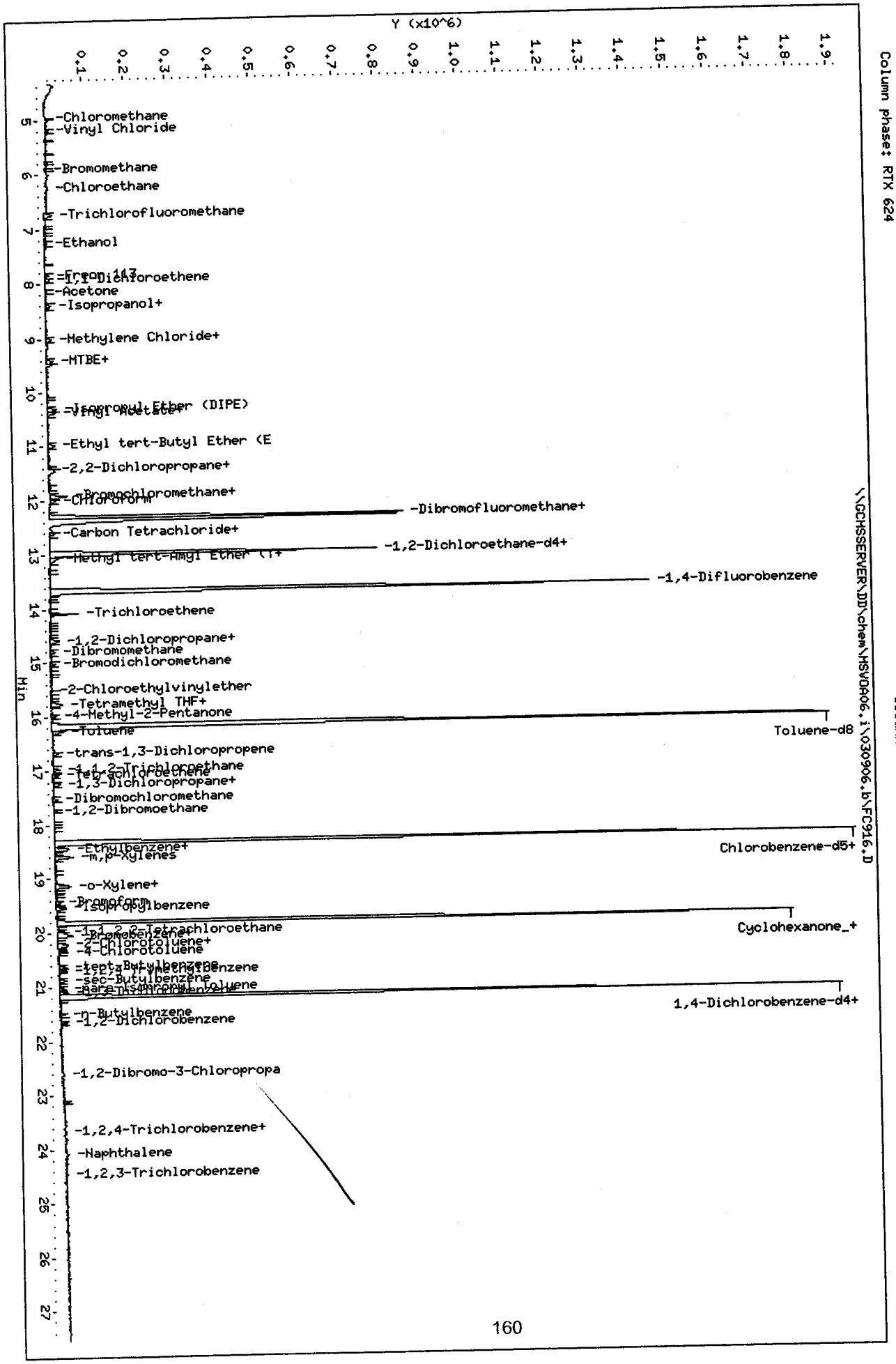
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone_	55	19.781	19.781	(0.935)	14831	5.00000	20.6723
$ 65 Bromofluorobenzene	95	19.811	19.811	(0.936)	782841	50.0000	52.9652
66 1,1,2,2-Tetrachloroethane	83	19.968	19.968	(0.944)	9722	0.50000	0.5318
67 Bromobenzene	156	20.008	20.008	(0.946)	6876	0.50000	0.5415
68 Propylbenzene	91	20.047	20.047	(0.947)	27857	0.50000	0.6030
69 1,2,3-Trichloropropane	75	20.047	20.047	(0.947)	8456	0.50000	0.5682
70 2-Chlorotoluene	91	20.205	20.205	(0.955)	21103	0.50000	0.5971
71 1,3,5-Trimethylbenzene	105	20.244	20.244	(0.957)	13559	0.50000	0.5004
72 4-Chlorotoluene	91	20.343	20.343	(0.961)	18784	0.50000	0.5726
73 tert-Butylbenzene	119	20.619	20.619	(0.974)	12043	0.50000	0.5486
74 1,2,4-Trimethylbenzene	105	20.688	20.688	(0.978)	12128	0.50000	0.4706
75 sec-Butylbenzene	105	20.865	20.865	(0.986)	16230	0.50000	0.5294
76 para-Isopropyl Toluene	119	21.013	21.013	(0.993)	10889	0.50000	0.5099
77 1,3-Dichlorobenzene	146	21.082	21.082	(0.996)	10486	0.50000	0.5343
* 78 1,4-Dichlorobenzene-d4	152	21.160	21.160	(1.000)	617267	50.0000	
79 1,4-Dichlorobenzene	146	21.180	21.180	(1.001)	10785	0.50000	0.5392
80 n-Butylbenzene	91	21.486	21.486	(1.015)	7827	0.50000	0.4712
81 1,2-Dichlorobenzene	146	21.643	21.643	(1.023)	9802	0.50000	0.5009
82 1,2-Dibromo-3-Chloropropane	75	22.599	22.599	(1.068)	2759	0.50000	1.2710
83 1,2,4-Trichlorobenzene	180	23.663	23.663	(1.118)	1817	0.50000	1.2909
84 Hexachlorobutadiene	225	23.801	23.801	(1.125)	733	0.50000	0.9167
85 Naphthalene	128	24.086	24.086	(1.138)	5610	0.50000	0.7117
86 1,2,3-Trichlorobenzene	180	24.451	24.451	(1.155)	614	0.50000	1.4570

QC Flag Legend

M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC916.D
Date : 09-MAR-2006 16:52
Client ID: DYNA P&T
Sample Info: ICAL,S2783,0.002/1000,S2844,0.001/1000,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA06.i
Operator: BO
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC917.D
Report Date: 10-Mar-2006 08:54

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC917.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 09-MAR-2006 17:27 MS Autotune Date: 24-FEB-2006 08:08
Operator : BO Inst ID: MSVOA06.i
Smp Info : ICAL,S2783,0.002/500,S2844,0.002/500,
Misc Info : S2410,0.001/500,2PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\826GOX6W.m
Meth Date : 10-Mar-2006 08:54 target Quant Type: ISTD
Cal Date : 09-MAR-2006 16:16 Cal File: FC915.D
Als bottle: 17 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.461	4.461	(0.361)	21040	2.00000	1.3165 (M)
2 Chloromethane	50	4.983	4.983	(0.404)	29916	2.00000	1.8565
3 Vinyl Chloride	62	5.200	5.200	(0.421)	22083	2.00000	1.7272
4 Bromomethane	94	6.008	6.008	(0.487)	15777	2.00000	1.8678
5 Chloroethane	64	6.244	6.244	(0.506)	13486	2.00000	1.9140
6 Trichlorofluoromethane	101	6.746	6.746	(0.547)	24087	2.00000	1.3605
7 Ethanol	45	7.259	7.259	(0.588)	40036	200.000	213.7619
8 Freon 113	101	7.840	7.840	(0.635)	15911	2.00000	2.1520
9 1,1-Dichloroethene	96	7.929	7.929	(0.642)	21033	2.00000	1.9925
10 Acetone	43	8.145	8.145	(0.660)	15396	2.00000	2.3513
11 Isopropanol	45	8.352	8.352	(0.677)	20392	20.0000	20.3425
12 Carbon Disulfide	76	8.402	8.402	(0.681)	83752	2.00000	1.9483
13 Methylene Chloride	84	9.022	9.022	(0.731)	33351	2.00000	2.1677
14 tert-Butyl Alcohol (TBA)	59	9.150	9.150	(0.741)	29363	20.0000	21.2118
15 MTBE	73	9.416	9.416	(0.763)	86389	2.00000	2.0008
16 trans-1,2-Dichloroethene	96	9.475	9.475	(0.768)	26434	2.00000	2.0194

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC917.D
Report Date: 10-Mar-2006 08:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	10.313	10.313	(0.836)	118303	2.00000	2.0188
	19 Vinyl Acetate	43	10.392	10.392	(0.842)	72877	2.00000	1.8908
	18 1,1-Dichloroethane	63	10.372	10.372	(0.840)	48289	2.00000	1.9923
	20 Ethyl tert-Butyl Ether (ETBE)	59	10.983	10.983	(0.890)	83823	2.00000	1.9385
	21 2,2-Dichloropropane	77	11.416	11.416	(0.925)	31847	2.00000	2.0280
	22 cis-1,2-Dichloroethene	96	11.456	11.456	(0.928)	32742	2.00000	2.1249
	23 2-Butanone	43	11.475	11.475	(0.930)	18880	2.00000	2.0311
	24 Bromochloromethane	128	11.909	11.909	(0.965)	14004	2.00000	1.9473
	25 Tetrahydrofuran	42	11.919	11.919	(0.966)	111334	20.0000	21.8910
	26 Chloroform	83	11.997	11.997	(0.972)	48895	2.00000	2.0443
$	27 Dibromofluoromethane	113	12.303	12.303	(0.997)	605588	50.0000	49.7941
	28 1,1,1-Trichloroethane	97	12.313	12.313	(0.998)	29439	2.00000	1.8743
*	29 Pentafluorobenzene	168	12.342	12.342	(1.000)	912361	50.0000	
	30 Carbon Tetrachloride	117	12.549	12.549	(0.919)	19091	2.00000	1.7912
	31 1,1-Dichloropropene	75	12.598	12.598	(0.922)	29421	2.00000	1.9141
$	32 1,2-Dichloroethane-d4	65	12.963	12.963	(0.949)	659389	50.0000	50.0134
	33 Benzene	78	12.973	12.973	(0.950)	104239	2.00000	2.0419
	34 Methyl tert-Amyl Ether (TAME)	73	13.061	13.061	(0.956)	80106	2.00000	1.9761
	35 1,2-Dichloroethane	62	13.111	13.111	(0.960)	36797	2.00000	2.1521
*	36 1,4-Difluorobenzene	114	13.662	13.662	(1.000)	1633940	50.0000	
	37 Trichloroethene	95	14.096	14.096	(1.032)	26007	2.00000	2.1556
	38 1,2-Dichloropropane	63	14.579	14.579	(1.067)	29124	2.00000	1.9747
$	39 Trifluorotoluene	146	14.598	14.598	(1.068)	25494	2.00000	1.9177
	40 Dibromomethane	93	14.795	14.795	(1.083)	20156	2.00000	1.9746
	41 Bromodichloromethane	83	15.022	15.022	(1.100)	34761	2.00000	2.0051
	42 2-Chloroethylvinylether	63	15.514	15.514	(1.136)	1223	2.00000	1.2428
	43 Tetramethyl THF	43	15.761	15.761	(1.154)	63073	2.00000	1.9942
	44 cis-1,3-Dichloropropene	75	15.780	15.780	(1.155)	45941	2.00000	2.0742
	45 4-Methyl-2-Pentanone	43	15.987	15.987	(1.170)	35240	2.00000	1.9446
$	46 Toluene-d8	98	16.165	16.165	(1.183)	1795965	50.0000	50.4735
	47 Toluene	92	16.273	16.273	(1.191)	56887	2.00000	1.9781
	48 trans-1,3-Dichloropropene	75	16.667	16.667	(1.220)	42705	2.00000	2.0889
	49 1,1,2-Trichloroethane	85	16.953	16.953	(1.241)	15676	2.00000	2.1009
	50 Tetrachloroethene	166	17.081	17.081	(0.932)	18792	2.00000	1.9888
	51 1,3-Dichloropropane	76	17.229	17.229	(0.940)	46018	2.00000	2.0055
	52 2-Hexanone	43	17.248	17.248	(0.941)	26083	2.00000	2.0242
	53 Dibromochloromethane	129	17.514	17.514	(0.956)	24980	2.00000	1.9229
	54 1,2-Dibromoethane	107	17.731	17.731	(1.298)	27624	2.00000	1.9713
*	55 Chlorobenzene-d5	117	18.322	18.322	(1.000)	1371394	50.0000	
	56 Chlorobenzene	112	18.362	18.362	(1.002)	62399	2.00000	2.0686
	57 Ethylbenzene	91	18.440	18.440	(1.006)	94479	2.00000	1.9063
	58 1,1,1,2-Tetrachloroethane	131	18.460	18.460	(1.008)	24091	2.00000	2.1548
	59 m,p-Xylenes	106	18.598	18.598	(1.015)	73719	4.00000	4.1809
	60 o-Xylene	106	19.120	19.120	(1.044)	36107	2.00000	2.0052
	61 Styrene	104	19.150	19.150	(1.045)	64946	2.00000	2.0370
	62 Bromoform	173	19.435	19.435	(1.061)	20432	2.00000	1.9387
	63 Isopropylbenzene	105	19.544	19.544	(0.924)	77150	2.00000	1.9407

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC917.D
Report Date: 10-Mar-2006 08:54

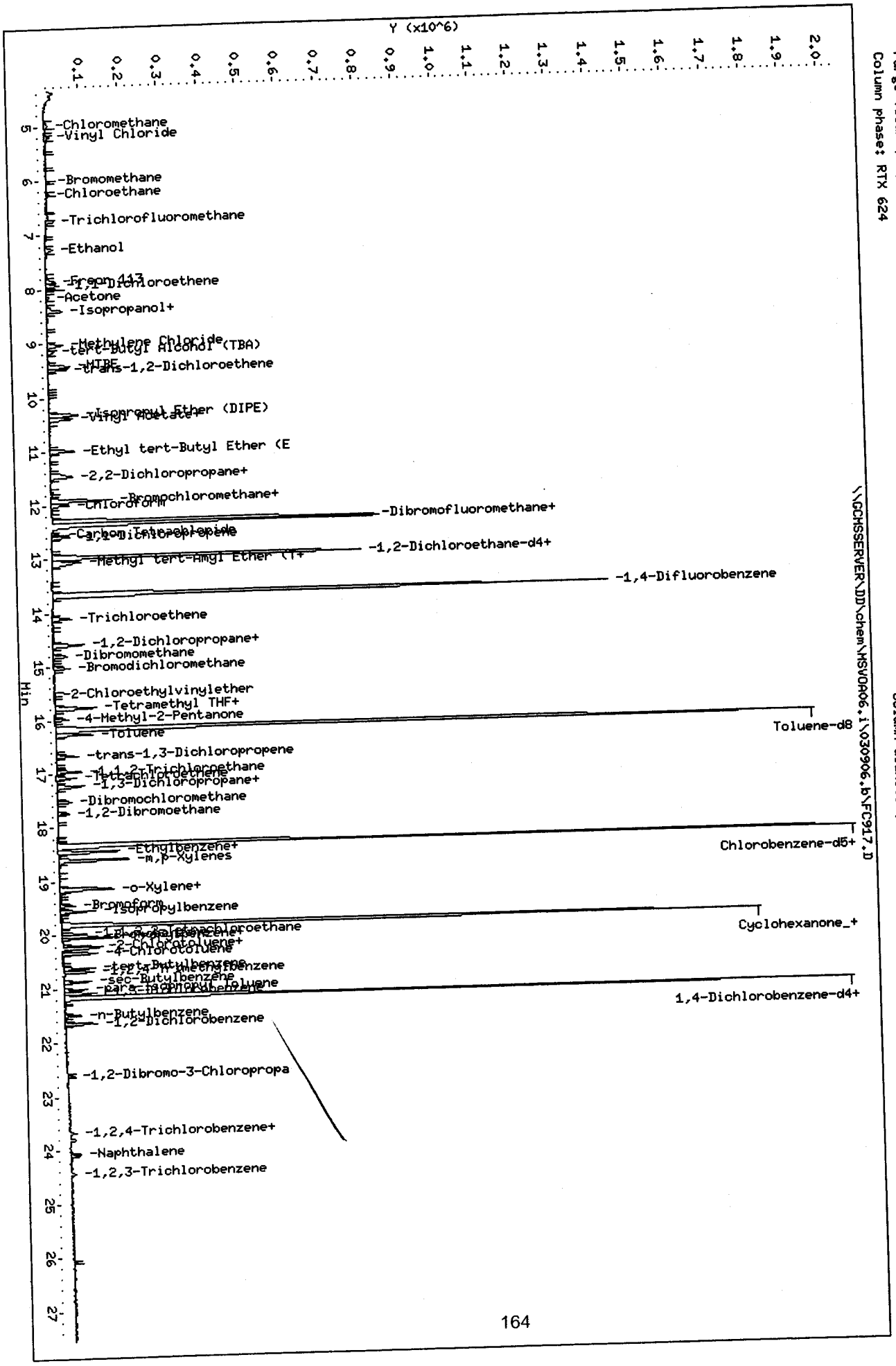
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone_	55	19.780	19.780	(0.935)	54950	20.0000	40.0151
$ 65 Bromofluorobenzene	95	19.810	19.810	(0.936)	781360	50.0000	49.6599
66 1,1,2,2-Tetrachloroethane	83	19.967	19.967	(0.944)	41304	2.00000	2.1223
67 Bromobenzene	156	20.017	20.017	(0.946)	27516	2.00000	2.0358
68 Propylbenzene	91	20.046	20.046	(0.947)	98053	2.00000	1.9940
69 1,2,3-Trichloropropane	75	20.056	20.056	(0.948)	33801	2.00000	2.1337
70 2-Chlorotoluene	91	20.204	20.204	(0.955)	79295	2.00000	2.1076
71 1,3,5-Trimethylbenzene	105	20.243	20.243	(0.957)	59073	2.00000	2.0479
72 4-Chlorotoluene	91	20.342	20.342	(0.961)	72275	2.00000	2.0696
73 tert-Butylbenzene	119	20.618	20.618	(0.974)	45593	2.00000	1.9513
74 1,2,4-Trimethylbenzene	105	20.687	20.687	(0.978)	55119	2.00000	2.0091
75 sec-Butylbenzene	105	20.864	20.864	(0.986)	64131	2.00000	1.9653
76 para-Isopropyl Toluene	119	21.012	21.012	(0.993)	42129	2.00000	1.8535
77 1,3-Dichlorobenzene	146	21.081	21.081	(0.996)	41352	2.00000	1.9796
* 78 1,4-Dichlorobenzene-d4	152	21.159	21.159	(1.000)	657106	50.0000	
79 1,4-Dichlorobenzene	146	21.189	21.189	(1.001)	42499	2.00000	1.9959
80 n-Butylbenzene	91	21.494	21.494	(1.016)	30738	2.00000	1.7385
81 1,2-Dichlorobenzene	146	21.642	21.642	(1.023)	42250	2.00000	2.0282
82 1,2-Dibromo-3-Chloropropane	75	22.598	22.598	(1.068)	6779	2.00000	2.3205
83 1,2,4-Trichlorobenzene	180	23.672	23.672	(1.119)	6572	2.00000	2.1665
84 Hexachlorobutadiene	225	23.790	23.790	(1.124)	3119	2.00000	1.8479
85 Naphthalene	128	24.075	24.075	(1.138)	28953	2.00000	1.9739
86 1,2,3-Trichlorobenzene	180	24.440	24.440	(1.155)	5198	2.00000	2.3272

QC Flag Legend

M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC917.D
Date : 09-MAR-2006 17:27
Client ID: DYNA P&T
Sample Info: ICAL,S2783,0.002/500,S2844,0.002/500,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA06.i
Operator: BO
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC918.D
Report Date: 10-Mar-2006 08:54

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC918.D
Lab Smp Id:
Inj Date : 09-MAR-2006 18:02
Operator : BO
Smp Info : ICAL,S2783,0.005/500,S2844,0.005/500,
Misc Info : S2410,0.0025/500,5PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\826GOX6W.m
Meth Date : 10-Mar-2006 08:54 target
Cal Date : 09-MAR-2006 16:16
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PC_MSVOA07

Client Smp ID: DYNA P&T
MS Autotune Date: 24-FEB-2006 08:08
Inst ID: MSVOA06.i

Quant Type: ISTD
Cal File: FC915.D
Calibration Sample, Level: 3

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.467	4.467	(0.362)	78773	5.00000	4.9919
2 Chloromethane	50	4.970	4.970	(0.403)	79826	5.00000	5.0171
3 Vinyl Chloride	62	5.187	5.187	(0.420)	59741	5.00000	4.7325
4 Bromomethane	94	6.004	6.004	(0.487)	33995	5.00000	4.0760(M)
5 Chloroethane	64	6.241	6.241	(0.506)	33031	5.00000	4.7478
6 Trichlorofluoromethane	101	6.743	6.743	(0.546)	85811	5.00000	4.9090
7 Ethanol	45	7.255	7.255	(0.588)	91710	500.000	495.9173
8 Freon 113	101	7.847	7.847	(0.636)	37272	5.00000	4.4397
9 1,1-Dichloroethene	96	7.925	7.925	(0.642)	46197	5.00000	4.4323
10 Acetone	43	8.142	8.142	(0.660)	33832	5.00000	5.2330
11 Isopropanol	45	8.349	8.349	(0.677)	49381	50.0000	49.8906
12 Carbon Disulfide	76	8.398	8.398	(0.681)	205074	5.00000	4.8316
13 Methylene Chloride	84	9.019	9.019	(0.731)	75977	5.00000	5.0013
14 tert-Butyl Alcohol (TBA)	59	9.147	9.147	(0.741)	66475	50.0000	48.6351
15 MTBE	73	9.413	9.413	(0.763)	209870	5.00000	4.9229
16 trans-1,2-Dichloroethene	96	9.482	9.482	(0.768)	58574	5.00000	4.5318

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC918.D
Report Date: 10-Mar-2006 08:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	10.300	10.300	(0.835)	289331	5.00000	5.0006
	19 Vinyl Acetate	43	10.388	10.388	(0.842)	187938	5.00000	4.9384
	18 1,1-Dichloroethane	63	10.369	10.369	(0.840)	116920	5.00000	4.8856
	20 Ethyl tert-Butyl Ether (ETBE)	59	10.979	10.979	(0.890)	210742	5.00000	4.9359
	21 2,2-Dichloropropane	77	11.413	11.413	(0.925)	73725	5.00000	4.7549
	22 cis-1,2-Dichloroethene	96	11.452	11.452	(0.928)	67528	5.00000	4.4386
	23 2-Butanone	43	11.472	11.472	(0.930)	47479	5.00000	5.1731
	24 Bromochloromethane	128	11.905	11.905	(0.965)	34027	5.00000	4.7922
	25 Tetrahydrofuran	42	11.915	11.915	(0.966)	261479	50.0000	52.0702
	26 Chloroform	83	12.004	12.004	(0.973)	111047	5.00000	4.7023
$	27 Dibromofluoromethane	113	12.299	12.299	(0.997)	606336	50.0000	50.4925
	28 1,1,1-Trichloroethane	97	12.309	12.309	(0.998)	72592	5.00000	4.6807
*	29 Pentafluorobenzene	168	12.339	12.339	(1.000)	900853	50.0000	
	30 Carbon Tetrachloride	117	12.556	12.556	(0.919)	47276	5.00000	4.5022
	31 1,1-Dichloropropene	75	12.605	12.605	(0.923)	71230	5.00000	4.7035
$	32 1,2-Dichloroethane-d4	65	12.969	12.969	(0.950)	651456	50.0000	50.1517
	33 Benzene	78	12.969	12.969	(0.950)	247750	5.00000	4.9258
	34 Methyl tert-Amyl Ether (TAME)	73	13.058	13.058	(0.956)	197896	5.00000	4.9550
	35 1,2-Dichloroethane	62	13.107	13.107	(0.960)	84951	5.00000	5.0430
*	36 1,4-Difluorobenzene	114	13.659	13.659	(1.000)	1609829	50.0000	
	37 Trichloroethene	95	14.092	14.092	(1.032)	60344	5.00000	5.0766
	38 1,2-Dichloropropane	63	14.585	14.585	(1.068)	71557	5.00000	4.9245
$	39 Trifluorotoluene	146	14.605	14.605	(1.069)	62174	5.00000	4.7469
	40 Dibromomethane	93	14.802	14.802	(1.084)	52839	5.00000	5.2540
	41 Bromodichloromethane	83	15.019	15.019	(1.100)	83343	5.00000	4.8794
	42 2-Chloroethylvinylether	63	15.501	15.501	(1.135)	4662	5.00000	4.8087
	43 Tetramethyl THF	43	15.757	15.757	(1.154)	162373	5.00000	5.2107
	44 cis-1,3-Dichloropropene	75	15.777	15.777	(1.155)	107793	5.00000	4.9396
	45 4-Methyl-2-Pentanone	43	15.984	15.984	(1.170)	91656	5.00000	5.1336
$	46 Toluene-d8	98	16.161	16.161	(1.183)	1765572	50.0000	50.3625
	47 Toluene	92	16.270	16.270	(1.191)	139693	5.00000	4.9304
	48 trans-1,3-Dichloropropene	75	16.674	16.674	(1.221)	103017	5.00000	5.1146
	49 1,1,2-Trichloroethane	85	16.959	16.959	(1.242)	36473	5.00000	4.9613
	50 Tetrachloroethene	166	17.078	17.078	(0.932)	44436	5.00000	4.7626
	51 1,3-Dichloropropane	76	17.225	17.225	(0.940)	112900	5.00000	4.9828
	52 2-Hexanone	43	17.255	17.255	(0.942)	62003	5.00000	4.8731
	53 Dibromochloromethane	129	17.521	17.521	(0.956)	60342	5.00000	4.7042
	54 1,2-Dibromoethane	107	17.728	17.728	(1.298)	70381	5.00000	5.0978
*	55 Chlorobenzene-d5	117	18.319	18.319	(1.000)	1354184	50.0000	
	56 Chlorobenzene	112	18.358	18.358	(1.002)	147429	5.00000	4.9496
	57 Ethylbenzene	91	18.437	18.437	(1.006)	243149	5.00000	4.9684
	58 1,1,1,2-Tetrachloroethane	131	18.457	18.457	(1.008)	53387	5.00000	4.8359
	59 m,p-Xylenes	106	18.595	18.595	(1.015)	175671	10.0000	10.0898
	60 o-Xylene	106	19.127	19.127	(1.044)	90274	5.00000	5.0772
	61 Styrene	104	19.146	19.146	(1.045)	157187	5.00000	4.9928
	62 Bromoform	173	19.442	19.442	(1.061)	49671	5.00000	4.7731
	63 Isopropylbenzene	105	19.550	19.550	(0.924)	189355	5.00000	4.8995

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC918.D
Report Date: 10-Mar-2006 08:54

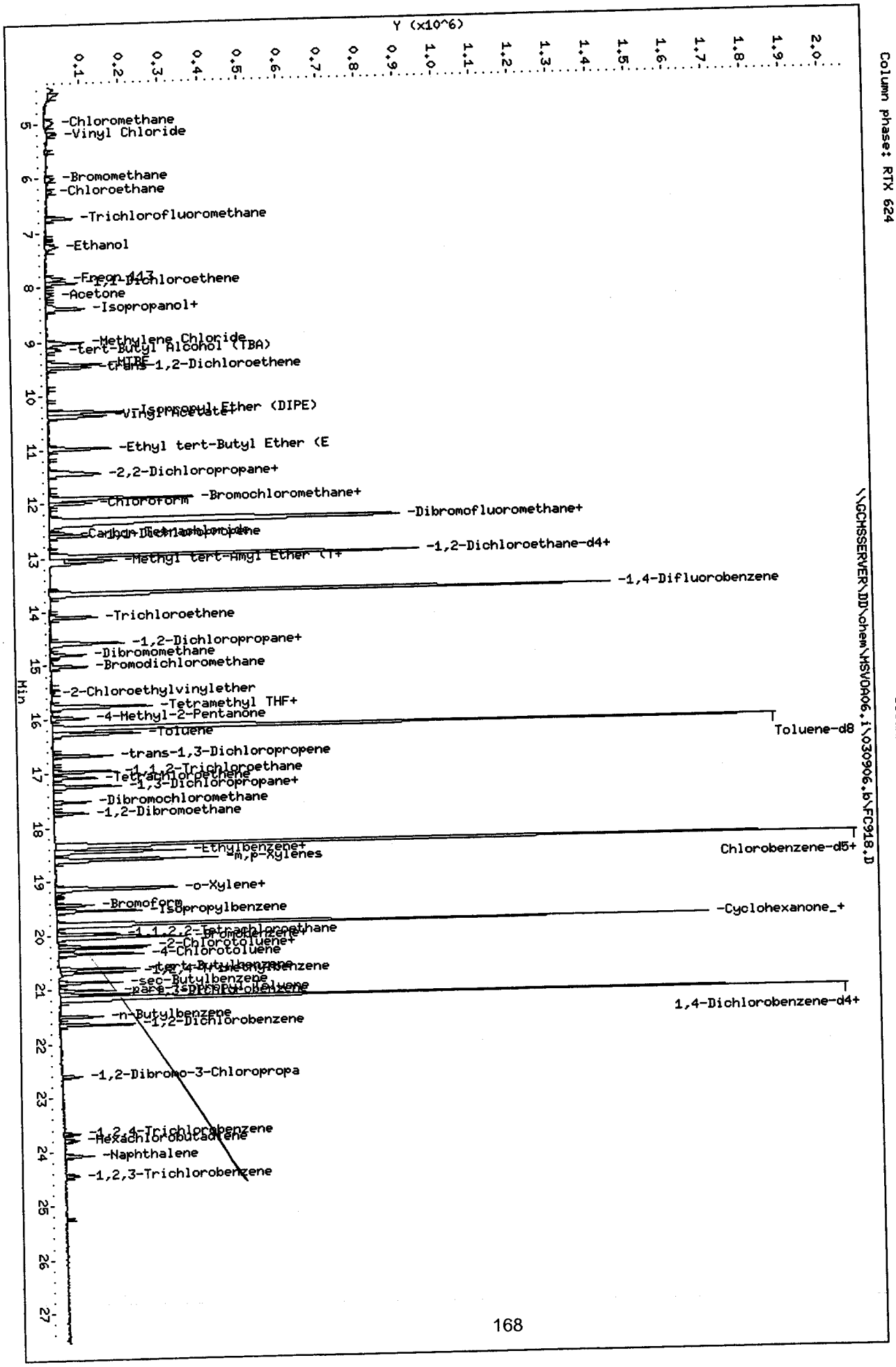
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone_	55	19.777	19.777	(0.935)	112945	50.0000	70.0409
$ 65 Bromofluorobenzene	95	19.806	19.806	(0.936)	772817	50.0000	50.5211
66 1,1,2,2-Tetrachloroethane	83	19.974	19.974	(0.944)	98368	5.00000	5.1991
67 Bromobenzene	156	20.013	20.013	(0.946)	68565	5.00000	5.2180
68 Propylbenzene	91	20.043	20.043	(0.947)	233743	5.00000	4.8893
69 1,2,3-Trichloropropane	75	20.053	20.053	(0.948)	85992	5.00000	5.5835
70 2-Chlorotoluene	91	20.210	20.210	(0.955)	181754	5.00000	4.9692
71 1,3,5-Trimethylbenzene	105	20.240	20.240	(0.957)	138551	5.00000	4.9407
72 4-Chlorotoluene	91	20.338	20.338	(0.961)	170592	5.00000	5.0246
73 tert-Butylbenzene	119	20.614	20.614	(0.974)	111709	5.00000	4.9176
74 1,2,4-Trimethylbenzene	105	20.683	20.683	(0.978)	131581	5.00000	4.9334
75 sec-Butylbenzene	105	20.870	20.870	(0.986)	150093	5.00000	4.7312
76 para-Isopropyl Toluene	119	21.018	21.018	(0.993)	103981	5.00000	4.7055
77 1,3-Dichlorobenzene	146	21.077	21.077	(0.996)	101840	5.00000	5.0146
* 78 1,4-Dichlorobenzene-d4	152	21.156	21.156	(1.000)	638842	50.0000	
79 1,4-Dichlorobenzene	146	21.186	21.186	(1.001)	104874	5.00000	5.0662
80 n-Butylbenzene	91	21.491	21.491	(1.016)	79116	5.00000	4.6026
81 1,2-Dichlorobenzene	146	21.649	21.649	(1.023)	97458	5.00000	4.8124
82 1,2-Dibromo-3-Chloropropane	75	22.604	22.604	(1.068)	16377	5.00000	5.0919
83 1,2,4-Trichlorobenzene	180	23.668	23.668	(1.119)	19724	5.00000	4.7340
84 Hexachlorobutadiene	225	23.796	23.796	(1.125)	10550	5.00000	4.9072
85 Naphthalene	128	24.082	24.082	(1.138)	78907	5.00000	4.8199
86 1,2,3-Trichlorobenzene	180	24.447	24.447	(1.156)	16672	5.00000	4.5986

QC Flag Legend

M - Compound response manually integrated.

Data File: \\GCHSSERVER\DD\chem\HSVOA06.i\030906.b\FC918.D
Date : 09-MAR-2006 18:02
Client ID: DYNA P&T
Sample Info: ICAL,S2783,0.005/500,S2844,0.005/500,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: HSVOA06.i
Operator: BO
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC919.D
Report Date: 10-Mar-2006 08:54

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC919.D
Lab Smp Id:
Inj Date : 09-MAR-2006 18:37
Operator : BO
Smp Info : ICAL,S2783,0.002/100,S2844,0.002/100,
Misc Info : S2410,0.001/100,10PPB, NP NL
Comment :
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Meth Date : 10-Mar-2006 08:54 target
Cal Date : 09-MAR-2006 16:16
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PC_MSVOA07

Client Smp ID: DYNA P&T
MS Autotune Date: 24-FEB-2006 08:08
Inst ID: MSVOA06.i

Quant Type: ISTD
Cal File: FC915.D
Calibration Sample, Level: 4

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.462	4.462	(0.362)	162320	10.0000	10.0383
2 Chloromethane	50	4.964	4.964	(0.402)	160950	10.0000	9.8717
3 Vinyl Chloride	62	5.201	5.201	(0.421)	132244	10.0000	10.2231
4 Bromomethane	94	6.009	6.009	(0.487)	82210	10.0000	9.6192
5 Chloroethane	64	6.245	6.245	(0.506)	73172	10.0000	10.2639
6 Trichlorofluoromethane	101	6.748	6.748	(0.547)	186625	10.0000	10.4188
7 Ethanol	45	7.270	7.270	(0.589)	195107	1000.00	1029.5736
8 Freon 113	101	7.851	7.851	(0.636)	67890	10.0000	7.4943
9 1,1-Dichloroethene	96	7.930	7.930	(0.642)	92519	10.0000	8.6624
10 Acetone	43	8.147	8.147	(0.660)	62191	10.0000	9.3874
11 Isopropanol	45	8.353	8.353	(0.677)	111348	100.000	109.7826
12 Carbon Disulfide	76	8.403	8.403	(0.681)	407379	10.0000	9.3664
13 Methylene Chloride	84	9.023	9.023	(0.731)	162466	10.0000	10.4366
14 tert-Butyl Alcohol (TBA)	59	9.151	9.151	(0.741)	150434	100.000	107.4062
15 MTBE	73	9.417	9.417	(0.763)	457112	10.0000	10.4638
16 trans-1,2-Dichloroethene	96	9.486	9.486	(0.769)	127382	10.0000	9.6177

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC919.D
Report Date: 10-Mar-2006 08:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	10.304	10.304	(0.835)	623709	10.0000	10.5196
	19 Vinyl Acetate	43	10.393	10.393	(0.842)	438991	10.0000	11.2569
	18 1,1-Dichloroethane	63	10.373	10.373	(0.840)	258131	10.0000	10.5260
	20 Ethyl tert-Butyl Ether (ETBE)	59	10.974	10.974	(0.889)	462005	10.0000	10.5599
	21 2,2-Dichloropropane	77	11.417	11.417	(0.925)	149180	10.0000	9.3893
	22 cis-1,2-Dichloroethene	96	11.467	11.467	(0.929)	153400	10.0000	9.8396
	23 2-Butanone	43	11.476	11.476	(0.930)	99260	10.0000	10.5540
	24 Bromochloromethane	128	11.910	11.910	(0.965)	77055	10.0000	10.5902
	25 Tetrahydrofuran	42	11.920	11.920	(0.966)	549320	100.000	106.7504
	26 Chloroform	83	11.999	11.999	(0.972)	254380	10.0000	10.5119
$	27 Dibromofluoromethane	113	12.304	12.304	(0.997)	638492	50.0000	51.8873
	28 1,1,1-Trichloroethane	97	12.314	12.314	(0.998)	148553	10.0000	9.3476
*	29 Pentafluorobenzene	168	12.343	12.343	(1.000)	923128	50.0000	
	30 Carbon Tetrachloride	117	12.550	12.550	(0.919)	88249	10.0000	7.9913
	31 1,1-Dichloropropene	75	12.600	12.600	(0.922)	134677	10.0000	8.4562
$	32 1,2-Dichloroethane-d4	65	12.974	12.974	(0.950)	696978	50.0000	51.0200
	33 Benzene	78	12.974	12.974	(0.950)	524127	10.0000	9.9088
	34 Methyl tert-Amyl Ether (TAME)	73	13.063	13.063	(0.956)	435841	10.0000	10.3767
	35 1,2-Dichloroethane	62	13.112	13.112	(0.960)	184781	10.0000	10.4303
*	36 1,4-Difluorobenzene	114	13.663	13.663	(1.000)	1693008	50.0000	
	37 Trichloroethene	95	14.097	14.097	(1.032)	116605	10.0000	9.3278
	38 1,2-Dichloropropane	63	14.580	14.580	(1.067)	159124	10.0000	10.4129
$	39 Trifluorotoluene	146	14.609	14.609	(1.069)	115225	10.0000	8.3652
	40 Dibromomethane	93	14.806	14.806	(1.084)	112074	10.0000	10.5965
	41 Bromodichloromethane	83	15.023	15.023	(1.099)	188370	10.0000	10.4866
	42 2-Chloroethylvinylether	63	15.506	15.506	(1.135)	14400	10.0000	14.1236
	43 Tetramethyl THF	43	15.762	15.762	(1.154)	353951	10.0000	10.8005
	44 cis-1,3-Dichloropropene	75	15.782	15.782	(1.155)	240846	10.0000	10.4946
	45 4-Methyl-2-Pentanone	43	15.988	15.988	(1.170)	193279	10.0000	10.2936
$	46 Toluene-d8	98	16.166	16.166	(1.183)	1804012	50.0000	48.9308
	47 Toluene	92	16.274	16.274	(1.191)	290993	10.0000	9.7658
	48 trans-1,3-Dichloropropene	75	16.678	16.678	(1.221)	217487	10.0000	10.2673
	49 1,1,2-Trichloroethane	85	16.964	16.964	(1.242)	80286	10.0000	10.3845
	50 Tetrachloroethene	166	17.082	17.082	(0.932)	81298	10.0000	8.5839
	51 1,3-Dichloropropane	76	17.230	17.230	(0.940)	239870	10.0000	10.4291
	52 2-Hexanone	43	17.249	17.249	(0.941)	137141	10.0000	10.6182
	53 Dibromochloromethane	129	17.525	17.525	(0.956)	134817	10.0000	10.3538
	54 1,2-Dibromoethane	107	17.732	17.732	(1.298)	144033	10.0000	9.9199
*	55 Chlorobenzene-d5	117	18.323	18.323	(1.000)	1374639	50.0000	
	56 Chlorobenzene	112	18.363	18.363	(1.002)	303254	10.0000	10.0297
	57 Ethylbenzene	91	18.442	18.442	(1.006)	498157	10.0000	10.0278
	58 1,1,1,2-Tetrachloroethane	131	18.461	18.461	(1.008)	112330	10.0000	10.0238
	59 m,p-Xylenes	106	18.599	18.599	(1.015)	342990	20.0000	19.4067
	60 o-Xylene	106	19.121	19.121	(1.044)	184583	10.0000	10.2269
	61 Styrene	104	19.151	19.151	(1.045)	335951	10.0000	10.5122
	62 Bromoform	173	19.437	19.437	(1.061)	103811	10.0000	9.8273
	63 Isopropylbenzene	105	19.555	19.555	(0.924)	357599	10.0000	8.7761

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC919.D
Report Date: 10-Mar-2006 08:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone_	55	19.781	19.781	(0.935)	116724	100.000	68.9181
$ 65 Bromofluorobenzene	95	19.811	19.811	(0.936)	794360	50.0000	49.2538
66 1,1,2,2-Tetrachloroethane	83	19.969	19.969	(0.944)	204476	10.0000	10.2504
67 Bromobenzene	156	20.018	20.018	(0.946)	134950	10.0000	9.7409
68 Propylbenzene	91	20.047	20.047	(0.947)	439689	10.0000	8.7234
69 1,2,3-Trichloropropane	75	20.057	20.057	(0.948)	165589	10.0000	10.1977
70 2-Chlorotoluene	91	20.205	20.205	(0.955)	369198	10.0000	9.5739
71 1,3,5-Trimethylbenzene	105	20.244	20.244	(0.957)	273367	10.0000	9.2459
72 4-Chlorotoluene	91	20.343	20.343	(0.961)	346962	10.0000	9.6929
73 tert-Butylbenzene	119	20.619	20.619	(0.974)	203161	10.0000	8.4827
74 1,2,4-Trimethylbenzene	105	20.688	20.688	(0.978)	259422	10.0000	9.2255
75 sec-Butylbenzene	105	20.865	20.865	(0.986)	272296	10.0000	8.1410
76 para-Isopropyl Toluene	119	21.013	21.013	(0.993)	198208	10.0000	8.5075
77 1,3-Dichlorobenzene	146	21.082	21.082	(0.996)	211854	10.0000	9.8943
* 78 1,4-Dichlorobenzene-d4	152	21.161	21.161	(1.000)	673547	50.0000	
79 1,4-Dichlorobenzene	146	21.190	21.190	(1.001)	211675	10.0000	9.6986
80 n-Butylbenzene	91	21.486	21.486	(1.015)	150204	10.0000	8.2879
81 1,2-Dichlorobenzene	146	21.643	21.643	(1.023)	214495	10.0000	10.0459
82 1,2-Dibromo-3-Chloropropane	75	22.599	22.599	(1.068)	34761	10.0000	9.8633
83 1,2,4-Trichlorobenzene	180	23.673	23.673	(1.119)	44065	10.0000	8.9110
84 Hexachlorobutadiene	225	23.791	23.791	(1.124)	20165	10.0000	8.3603
85 Naphthalene	128	24.087	24.087	(1.138)	173446	10.0000	9.5513
86 1,2,3-Trichlorobenzene	180	24.451	24.451	(1.155)	41527	10.0000	8.9681

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC919.D
Date : 09-MAR-2006 18:37
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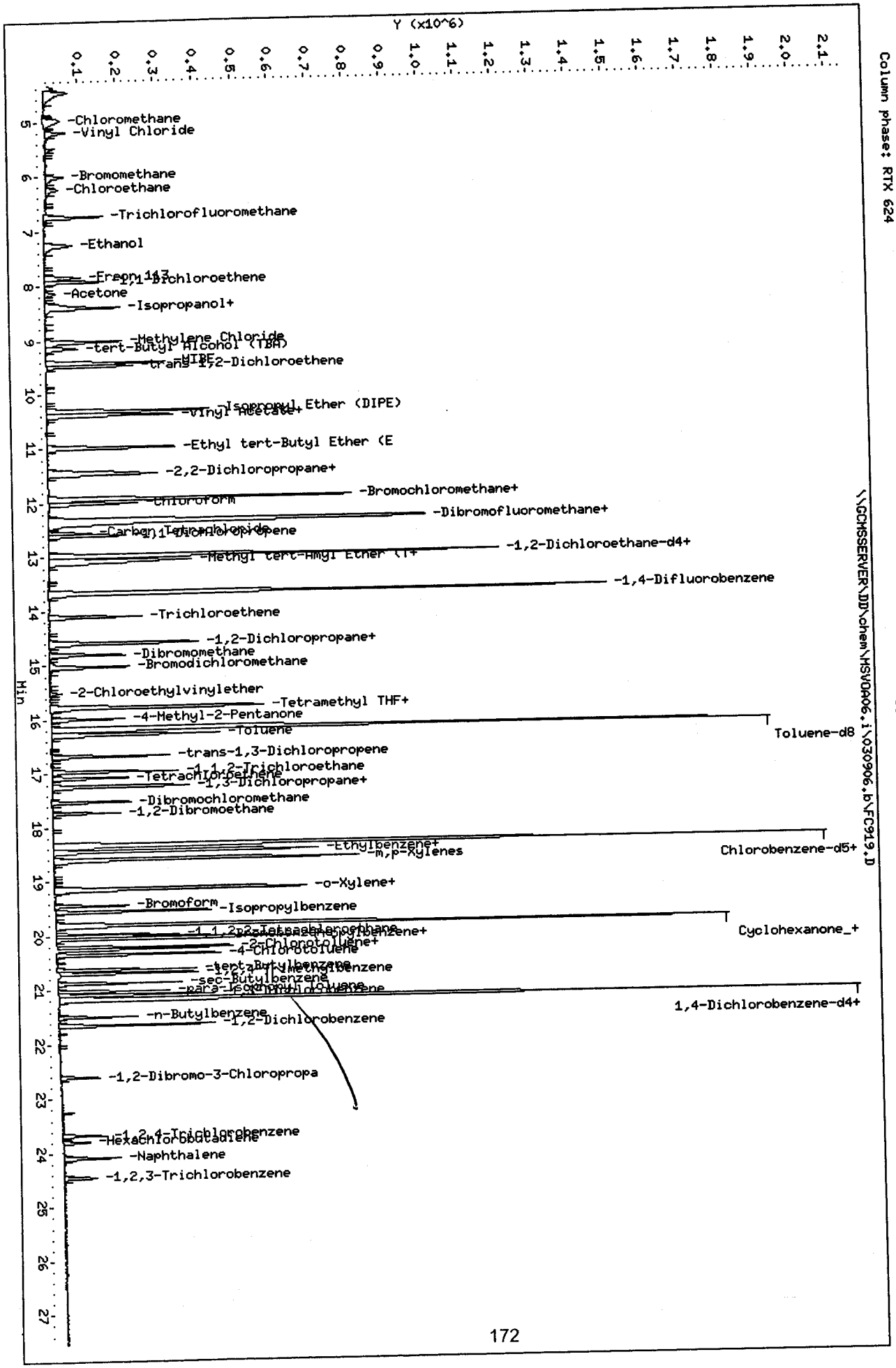
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA06.i
Operator: BO
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC920.D
Report Date: 10-Mar-2006 08:54

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC920.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 09-MAR-2006 19:12 MS Autotune Date: 24-FEB-2006 08:08
Operator : BO Inst ID: MSVOA06.i
Smp Info : ICAL,S2783,0.004/100,S2844,0.004/100,
Misc Info : S2410,0.002/100,20PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\826GOX6W.m
Meth Date : 10-Mar-2006 08:54 target Quant Type: ISTD
Cal Date : 09-MAR-2006 16:16 Cal File: FC915.D
Als bottle: 20 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.477	4.477	(0.363)	353923	20.0000	20.8940
2 Chloromethane	50	4.989	4.989	(0.404)	332702	20.0000	19.4798
3 Vinyl Chloride	62	5.206	5.206	(0.422)	288234	20.0000	21.2706
4 Bromomethane	94	6.014	6.014	(0.487)	169368	20.0000	18.9178
5 Chloroethane	64	6.250	6.250	(0.506)	145094	20.0000	19.4287
6 Trichlorofluoromethane	101	6.753	6.753	(0.547)	393603	20.0000	20.9765
7 Ethanol	45	7.265	7.265	(0.588)	406106	2000.00	2045.7315
8 Freon 113	101	7.856	7.856	(0.636)	244404	20.0000	24.0837
9 1,1-Dichloroethene	96	7.935	7.935	(0.643)	236641	20.0000	21.1507
10 Acetone	43	8.152	8.152	(0.660)	129948	20.0000	18.7247
11 Isopropanol	45	8.358	8.358	(0.677)	215606	200.000	202.9255
12 Carbon Disulfide	76	8.408	8.408	(0.681)	981204	20.0000	21.5356
13 Methylene Chloride	84	9.028	9.028	(0.731)	322235	20.0000	19.7604
14 tert-Butyl Alcohol (TBA)	59	9.156	9.156	(0.742)	284352	200.000	193.8047
15 MTBE	73	9.422	9.422	(0.763)	918697	20.0000	20.0754
16 trans-1,2-Dichloroethene	96	9.482	9.482	(0.768)	282601	20.0000	20.3687

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC920.D
Report Date: 10-Mar-2006 08:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 Isopropyl Ether (DIPE)	45	10.309	10.309	(0.835)	1276356	20.0000	20.5501
19 Vinyl Acetate	43	10.398	10.398	(0.842)	918708	20.0000	22.4888
19 1,1-Dichloroethane	63	10.378	10.378	(0.840)	536109	20.0000	20.8690
20 Ethyl tert-Butyl Ether (ETBE)	59	10.979	10.979	(0.889)	931789	20.0000	20.3309
21 2,2-Dichloropropane	77	11.422	11.422	(0.925)	344589	20.0000	20.7037
22 cis-1,2-Dichloroethene	96	11.462	11.462	(0.928)	315098	20.0000	19.2941
23 2-Butanone	43	11.472	11.472	(0.929)	198585	20.0000	20.1565
24 Bromochloromethane	128	11.915	11.915	(0.965)	155963	20.0000	20.4622
25 Tetrahydrofuran	42	11.915	11.915	(0.965)	1070950	200.000	198.6727
26 Chloroform	83	12.004	12.004	(0.972)	515462	20.0000	20.3340
$ 27 Dibromofluoromethane	113	12.309	12.309	(0.997)	650640	50.0000	50.4744
28 1,1,1-Trichloroethane	97	12.319	12.319	(0.998)	357412	20.0000	21.4691
* 29 Pentafluorobenzene	168	12.348	12.348	(1.000)	967024	50.0000	
30 Carbon Tetrachloride	117	12.555	12.555	(0.919)	261566	20.0000	23.3272
31 1,1-Dichloropropene	75	12.605	12.605	(0.922)	357141	20.0000	22.0850
$ 32 1,2-Dichloroethane-d4	65	12.969	12.969	(0.949)	721063	50.0000	51.9837
33 Benzene	78	12.979	12.979	(0.950)	1112684	20.0000	20.7172
34 Methyl tert-Amyl Ether (TAME)	73	13.068	13.068	(0.956)	881879	20.0000	20.6783
35 1,2-Dichloroethane	62	13.107	13.107	(0.959)	369547	20.0000	20.5439
* 36 1,4-Difluorobenzene	114	13.669	13.669	(1.000)	1719042	50.0000	
37 Trichloroethene	95	14.102	14.102	(1.032)	265105	20.0000	20.8859
38 1,2-Dichloropropane	63	14.585	14.585	(1.067)	320523	20.0000	20.6570
$ 39 Trifluorotoluene	146	14.604	14.604	(1.068)	331813	20.0000	23.7244
40 Dibromomethane	93	14.801	14.801	(1.083)	221037	20.0000	20.5824
41 Bromodichloromethane	83	15.028	15.028	(1.099)	381356	20.0000	20.9086
42 2-Chloroethylvinylether	63	15.511	15.511	(1.135)	36832	20.0000	35.5780
43 Tetramethyl THF	43	15.757	15.757	(1.153)	703933	20.0000	21.1547
44 cis-1,3-Dichloropropene	75	15.787	15.787	(1.155)	495978	20.0000	21.2845
45 4-Methyl-2-Pentanone	43	15.984	15.984	(1.169)	394302	20.0000	20.6817
$ 46 Toluene-d8	98	16.161	16.161	(1.182)	1910840	50.0000	51.0434
47 Toluene	92	16.269	16.269	(1.190)	636238	20.0000	21.0291
48 trans-1,3-Dichloropropene	75	16.673	16.673	(1.220)	451679	20.0000	21.0003
49 1,1,2-Trichloroethane	85	16.959	16.959	(1.241)	155880	20.0000	19.8569
50 Tetrachloroethene	166	17.077	17.077	(0.932)	216726	20.0000	21.6768
51 1,3-Dichloropropane	76	17.225	17.225	(0.940)	497263	20.0000	20.4803
52 2-Hexanone	43	17.255	17.255	(0.942)	273285	20.0000	20.0439
53 Dibromochloromethane	129	17.521	17.521	(0.956)	284278	20.0000	20.6813
54 1,2-Dibromoethane	107	17.727	17.727	(1.297)	305589	20.0000	20.7280
* 55 Chlorobenzene-d5	117	18.319	18.319	(1.000)	1451139	50.0000	
56 Chlorobenzene	112	18.358	18.358	(1.002)	657367	20.0000	20.5953
57 Ethylbenzene	91	18.437	18.437	(1.006)	1127351	20.0000	21.4970
58 1,1,1,2-Tetrachloroethane	131	18.456	18.456	(1.008)	239177	20.0000	20.2180
59 m,p-Xylenes	106	18.594	18.594	(1.015)	774973	40.0000	41.5373
60 o-Xylene	106	19.126	19.126	(1.044)	389043	20.0000	20.4189
61 Styrene	104	19.146	19.146	(1.045)	693006	20.0000	20.5417
62 Bromoform	173	19.442	19.442	(1.061)	219483	20.0000	19.6821
63 Isopropylbenzene	105	19.550	19.550	(0.924)	887116	20.0000	20.8720

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC920.D
Report Date: 10-Mar-2006 08:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone_	55	19.777	19.777	(0.935)	279504	200.000	140.2284
$ 65 Bromofluorobenzene	95	19.816	19.816	(0.937)	826817	50.0000	49.1484
66 1,1,2,2-Tetrachloroethane	83	19.974	19.974	(0.944)	429677	20.0000	20.6500
67 Bromobenzene	156	20.013	20.013	(0.946)	292992	20.0000	20.2750
68 Propylbenzene	91	20.043	20.043	(0.947)	1110160	20.0000	21.1157
69 1,2,3-Trichloropropane	75	20.062	20.062	(0.948)	336938	20.0000	19.8931
70 2-Chlorotoluene	91	20.210	20.210	(0.955)	811219	20.0000	20.1672
71 1,3,5-Trimethylbenzene	105	20.240	20.240	(0.957)	646394	20.0000	20.9594
72 4-Chlorotoluene	91	20.338	20.338	(0.961)	754604	20.0000	20.2101
73 tert-Butylbenzene	119	20.614	20.614	(0.974)	524060	20.0000	20.9775
74 1,2,4-Trimethylbenzene	105	20.683	20.683	(0.978)	599018	20.0000	20.4222
75 sec-Butylbenzene	105	20.870	20.870	(0.986)	772600	20.0000	22.1448
76 para-Isopropyl Toluene	119	21.018	21.018	(0.993)	533111	20.0000	21.9371
77 1,3-Dichlorobenzene	146	21.077	21.077	(0.996)	449247	20.0000	20.1147
* 78 1,4-Dichlorobenzene-d4	152	21.156	21.156	(1.000)	702570	50.0000	
79 1,4-Dichlorobenzene	146	21.185	21.185	(1.001)	459028	20.0000	20.1631
80 n-Butylbenzene	91	21.491	21.491	(1.016)	435018	20.0000	23.0119
81 1,2-Dichlorobenzene	146	21.648	21.648	(1.023)	457045	20.0000	20.5215
82 1,2-Dibromo-3-Chloropropane	75	22.604	22.604	(1.068)	67400	20.0000	18.2160
83 1,2,4-Trichlorobenzene	180	23.678	23.678	(1.119)	114984	20.0000	20.2947
84 Hexachlorobutadiene	225	23.796	23.796	(1.125)	61146	20.0000	22.6092
85 Naphthalene	128	24.082	24.082	(1.138)	408806	20.0000	20.6500
86 1,2,3-Trichlorobenzene	180	24.446	24.446	(1.156)	107903	20.0000	19.8278

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC920.D
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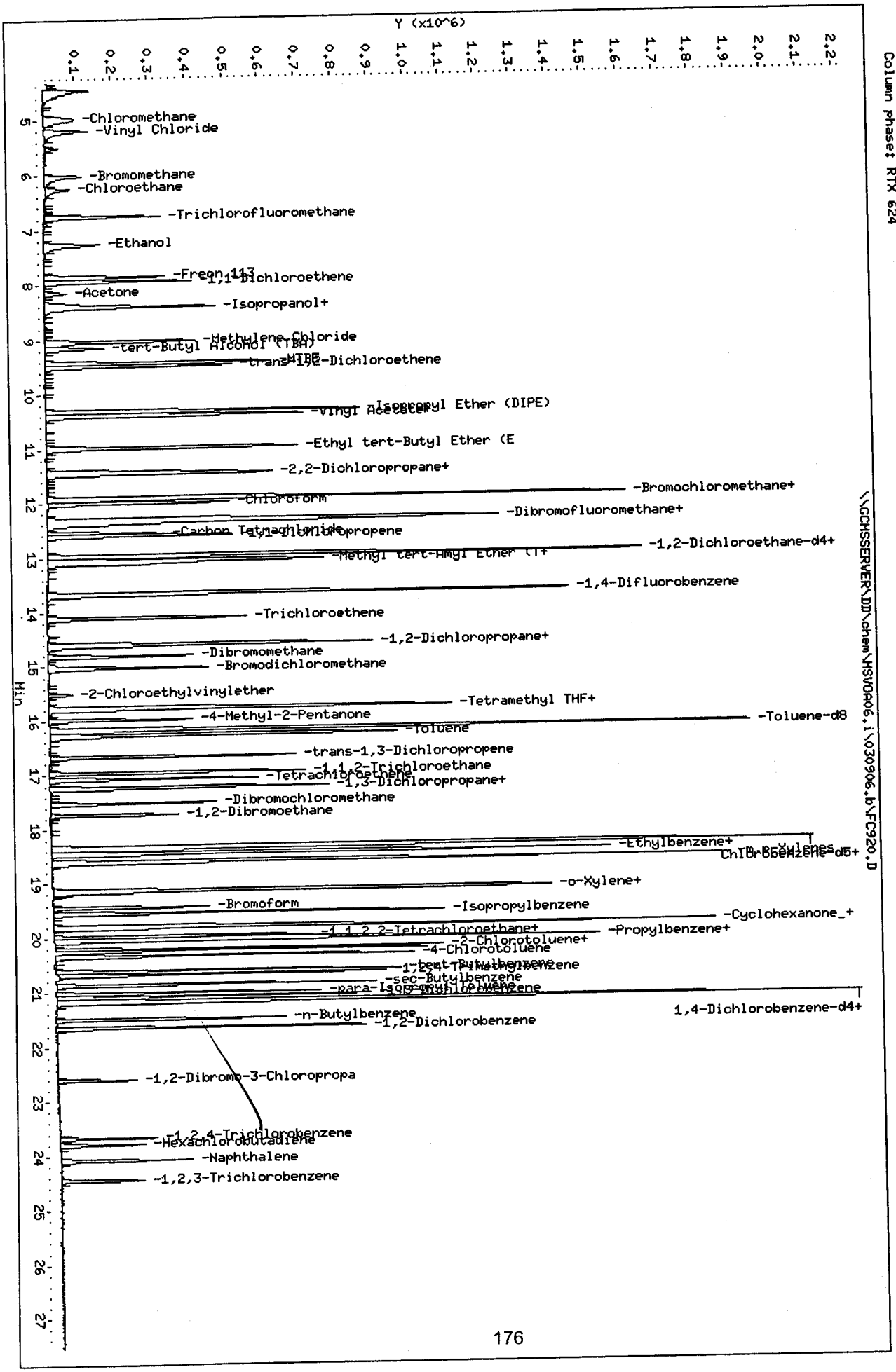
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA06.i
Operator: BO
Column diameter: 0.25



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Report Date: 10-Mar-2006 08:55

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC921.D
Lab Smp Id:
Inj Date : 09-MAR-2006 19:47
Operator : BO
Smp Info : ICAL,S2783,0.01/100,S2844,0.01/100,
Misc Info : S2410,0.005/100,50PPB, NP NL
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Target Version: 4.04
Processing Host: PC_MSVOA07

Client Smp ID: DYNA P&T
MS Autotune Date: 24-FEB-2006 08:08
Inst ID: MSVOA06.i

Quant Type: ISTD
Cal File: FC915.D
Calibration Sample, Level: 6

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.471	4.471	(0.362)	858613	50.0000	51.1792
2 Chloromethane	50	4.993	4.993	(0.404)	807025	50.0000	47.7090
3 Vinyl Chloride	62	5.200	5.200	(0.421)	659630	50.0000	49.1495
4 Bromomethane	94	6.018	6.018	(0.487)	431594	50.0000	48.6742
5 Chloroethane	64	6.254	6.254	(0.506)	354598	50.0000	47.9418
6 Trichlorofluoromethane	101	6.756	6.756	(0.547)	929873	50.0000	50.0359
7 Ethanol	45	7.269	7.269	(0.588)	992426	5000.00	5047.6718
8 Freon 113	101	7.860	7.860	(0.636)	495651	50.0000	47.2749
9 1,1-Dichloroethene	96	7.939	7.939	(0.643)	513584	50.0000	46.3480
10 Acetone	43	8.145	8.145	(0.659)	324501	50.0000	47.2112
11 Isopropanol	45	8.362	8.362	(0.677)	525559	500.000	499.4374
12 Carbon Disulfide	76	8.411	8.411	(0.681)	2138916	50.0000	47.3998
13 Methylene Chloride	84	9.032	9.032	(0.731)	790392	50.0000	48.9385
14 tert-Butyl Alcohol (TBA)	59	9.150	9.150	(0.741)	704760	500.000	484.9904
15 MTBE	73	9.426	9.426	(0.763)	2185291	50.0000	48.2153
16 trans-1,2-Dichloroethene	96	9.485	9.485	(0.768)	623368	50.0000	45.3648

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC921.D
Report Date: 10-Mar-2006 08:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 Isopropyl Ether (DIPE)	45	10.313	10.313	(0.835)	2983110	50.0000	48.4950
19 Vinyl Acetate	43	10.392	10.392	(0.841)	2088081	50.0000	51.6083
18 1,1-Dichloroethane	63	10.372	10.372	(0.840)	1226725	50.0000	48.2148
20 Ethyl tert-Butyl Ether (ETBE)	59	10.983	10.983	(0.889)	2229175	50.0000	49.1098
21 2,2-Dichloropropane	77	11.426	11.426	(0.925)	767063	50.0000	46.5331
22 cis-1,2-Dichloroethene	96	11.465	11.465	(0.928)	739121	50.0000	45.6961
23 2-Butanone	43	11.475	11.475	(0.929)	479063	50.0000	49.0959
24 Bromochloromethane	128	11.909	11.909	(0.964)	374936	50.0000	49.6675
25 Tetrahydrofuran	42	11.919	11.919	(0.965)	2456637	500.000	460.1441
26 Chloroform	83	12.007	12.007	(0.972)	1211166	50.0000	48.2407
$ 27 Dibromofluoromethane	113	12.303	12.303	(0.996)	634372	50.0000	49.6887
28 1,1,1-Trichloroethane	97	12.313	12.313	(0.997)	787668	50.0000	47.7719
* 29 Pentafluorobenzene	168	12.352	12.352	(1.000)	957753	50.0000	
30 Carbon Tetrachloride	117	12.559	12.559	(0.919)	575950	50.0000	51.8158
31 1,1-Dichloropropene	75	12.608	12.608	(0.923)	775663	50.0000	48.3868
$ 32 1,2-Dichloroethane-d4	65	12.973	12.973	(0.950)	674062	50.0000	49.0219
33 Benzene	78	12.983	12.983	(0.950)	2505988	50.0000	47.0689
34 Methyl tert-Amyl Ether (TAME)	73	13.061	13.061	(0.956)	2075773	50.0000	49.1001
35 1,2-Dichloroethane	62	13.111	13.111	(0.960)	884556	50.0000	49.6062
* 36 1,4-Difluorobenzene	114	13.662	13.662	(1.000)	1704082	50.0000	
37 Trichloroethene	95	14.106	14.106	(1.032)	605242	50.0000	48.1019
38 1,2-Dichloropropane	63	14.588	14.588	(1.068)	738297	50.0000	47.9995
$ 39 Trifluorotoluene	146	14.608	14.608	(1.069)	693393	50.0000	50.0124
40 Dibromomethane	93	14.805	14.805	(1.084)	527456	50.0000	49.5465
41 Bromodichloromethane	83	15.032	15.032	(1.100)	916686	50.0000	50.7005
42 2-Chloroethylvinylether	63	15.505	15.505	(1.135)	43361	50.0000	42.2525
43 Tetramethyl THF	43	15.761	15.761	(1.154)	1652644	50.0000	50.1015
44 cis-1,3-Dichloropropene	75	15.790	15.790	(1.156)	1158534	50.0000	50.1540
45 4-Methyl-2-Pentanone	43	15.987	15.987	(1.170)	958943	50.0000	50.7396
$ 46 Toluene-d8	98	16.165	16.165	(1.183)	1862184	50.0000	50.1804
47 Toluene	92	16.273	16.273	(1.191)	1475366	50.0000	49.1923
48 trans-1,3-Dichloropropene	75	16.677	16.677	(1.221)	1064647	50.0000	49.9343
49 1,1,2-Trichloroethane	85	16.963	16.963	(1.242)	386461	50.0000	49.6618
50 Tetrachloroethene	166	17.081	17.081	(0.932)	483812	50.0000	49.3744
51 1,3-Dichloropropane	76	17.229	17.229	(0.940)	1186682	50.0000	49.8684
52 2-Hexanone	43	17.258	17.258	(0.942)	674567	50.0000	50.4814
53 Dibromochloromethane	129	17.524	17.524	(0.956)	690464	50.0000	51.2526
54 1,2-Dibromoethane	107	17.731	17.731	(1.298)	728623	50.0000	49.8563
* 55 Chlorobenzene-d5	117	18.322	18.322	(1.000)	1422227	50.0000	
56 Chlorobenzene	112	18.362	18.362	(1.002)	1541199	50.0000	49.2675
57 Ethylbenzene	91	18.440	18.440	(1.006)	2535306	50.0000	49.3276
58 1,1,1,2-Tetrachloroethane	131	18.460	18.460	(1.008)	563182	50.0000	48.5744
59 m,p-Xylenes	106	18.598	18.598	(1.015)	1762534	100.000	96.3894
60 o-Xylene	106	19.130	19.130	(1.044)	907256	50.0000	48.5853
61 Styrene	104	19.150	19.150	(1.045)	1666336	50.0000	50.3968
62 Bromoform	173	19.445	19.445	(1.061)	542530	50.0000	49.6405
63 Isopropylbenzene	105	19.554	19.554	(0.924)	2041652	50.0000	48.1200

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC921.D
Report Date: 10-Mar-2006 08:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone_	55	19.780	19.780	(0.935)	1190343	500.000	523.1565
$ 65 Bromofluorobenzene	95	19.810	19.810	(0.936)	825016	50.0000	49.1272
66 1,1,2,2-Tetrachloroethane	83	19.967	19.967	(0.944)	1023377	50.0000	49.2690
67 Bromobenzene	156	20.017	20.017	(0.946)	698969	50.0000	48.4533
68 Propylbenzene	91	20.046	20.046	(0.947)	2448541	50.0000	46.6538
69 1,2,3-Trichloropropane	75	20.056	20.056	(0.948)	772324	50.0000	45.6784
70 2-Chlorotoluene	91	20.214	20.214	(0.955)	1893307	50.0000	47.1507
71 1,3,5-Trimethylbenzene	105	20.243	20.243	(0.957)	1517241	50.0000	49.2829
72 4-Chlorotoluene	91	20.342	20.342	(0.961)	1783093	50.0000	47.8392
73 tert-Butylbenzene	119	20.618	20.618	(0.974)	1219899	50.0000	48.9167
74 1,2,4-Trimethylbenzene	105	20.687	20.687	(0.978)	1483838	50.0000	50.6767
75 sec-Butylbenzene	105	20.864	20.864	(0.986)	1777395	50.0000	51.0342
76 para-Isopropyl Toluene	119	21.012	21.012	(0.993)	1245217	50.0000	51.3294
77 1,3-Dichlorobenzene	146	21.081	21.081	(0.996)	1100491	50.0000	49.3600
* 78 1,4-Dichlorobenzene-d4	152	21.159	21.159	(1.000)	701343	50.0000	
79 1,4-Dichlorobenzene	146	21.189	21.189	(1.001)	1120838	50.0000	49.3198
80 n-Butylbenzene	91	21.485	21.485	(1.015)	1047242	50.0000	55.4948
81 1,2-Dichlorobenzene	146	21.642	21.642	(1.023)	1110013	50.0000	49.9272
82 1,2-Dibromo-3-Chloropropane	75	22.608	22.608	(1.068)	178040	50.0000	50.1297
83 1,2,4-Trichlorobenzene	180	23.672	23.672	(1.119)	322304	50.0000	50.1650
84 Hexachlorobutadiene	225	23.800	23.800	(1.125)	139487	50.0000	48.4716
85 Naphthalene	128	24.085	24.085	(1.138)	1060959	50.0000	49.7168
86 1,2,3-Trichlorobenzene	180	24.450	24.450	(1.156)	315068	50.0000	50.4790

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC921.D
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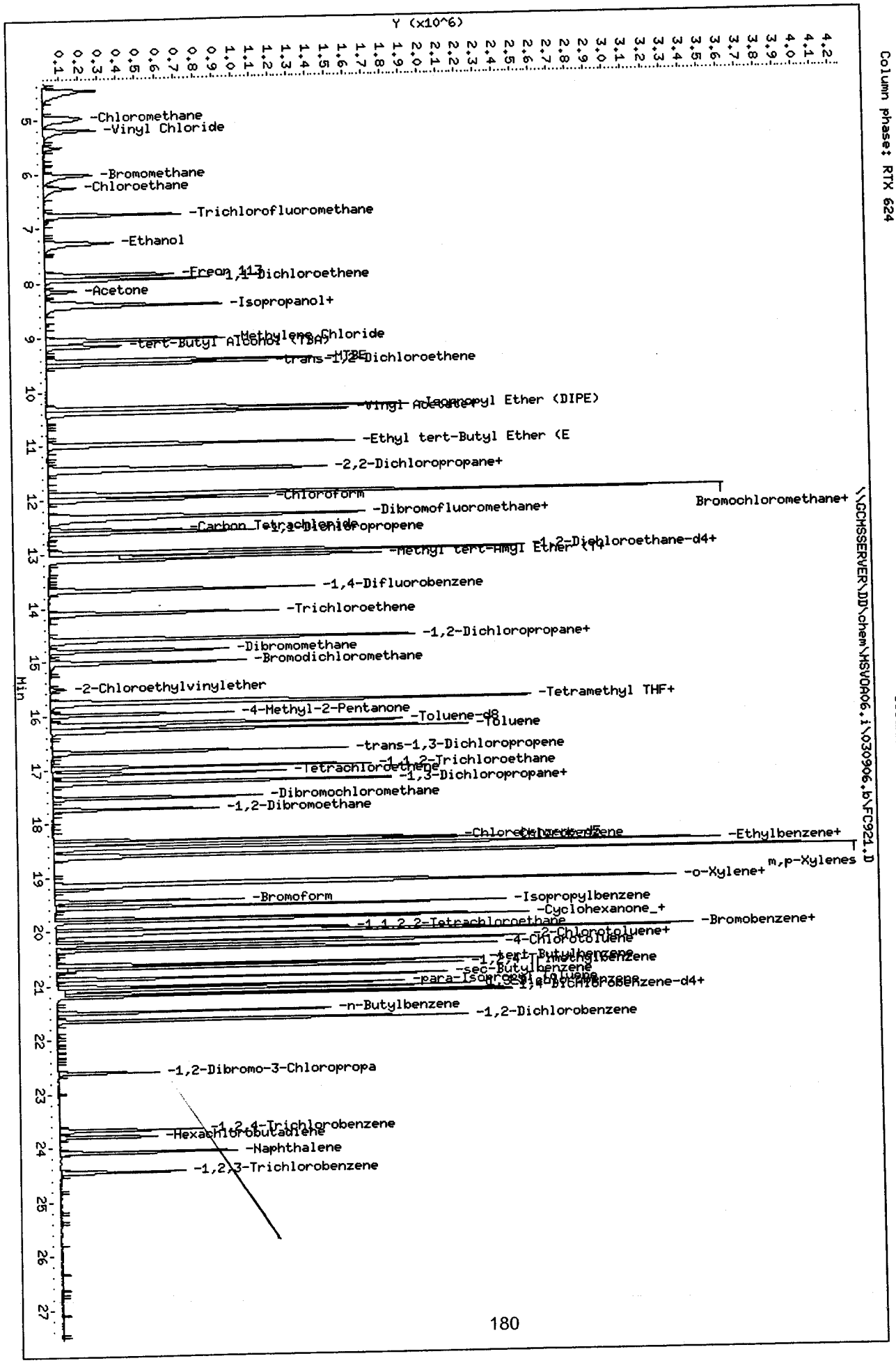
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA06.i
Operator: BO
Column diameter: 0.25



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Report Date: 10-Mar-2006 08:55

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC922.D
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Misc Info : S2410,0.0075/100,75PPB, NP NL
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Meth Date : 10-Mar-2006 08:55 target Quant Type: ISTD
Cal Date : 09-MAR-2006 16:16 Cal File: FC915.D
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Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.477	4.477	(0.363)	1405392	75.0000	81.5529
2 Chloromethane	50	4.990	4.990	(0.404)	1275903	75.0000	73.4304
3 Vinyl Chloride	62	5.206	5.206	(0.422)	1084952	75.0000	78.6999
4 Bromomethane	94	6.024	6.024	(0.488)	696374	75.0000	76.4560
5 Chloroethane	64	6.251	6.251	(0.506)	559871	75.0000	73.6905
6 Trichlorofluoromethane	101	6.763	6.763	(0.548)	1562563	75.0000	81.8542
7 Ethanol	45	7.265	7.265	(0.588)	1465706	7500.00	7257.4695
8 Freon 113	101	7.856	7.856	(0.636)	856370	75.0000	75.7389
9 1,1-Dichloroethene	96	7.935	7.935	(0.643)	869397	75.0000	76.3806
10 Acetone	43	8.142	8.142	(0.659)	503070	75.0000	71.2529
11 Isopropanol	45	8.359	8.359	(0.677)	776160	750.000	718.0525
12 Carbon Disulfide	76	8.408	8.408	(0.681)	3527198	75.0000	76.0953
13 Methylene Chloride	84	9.029	9.029	(0.731)	1206696	75.0000	72.7364
14 tert-Butyl Alcohol (TBA)	59	9.157	9.157	(0.742)	1067991	750.000	715.4922
15 MTBE	73	9.423	9.423	(0.763)	3358694	75.0000	72.1426
16 trans-1,2-Dichloroethene	96	9.492	9.492	(0.769)	1011941	75.0000	71.6927

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC922.D
Report Date: 10-Mar-2006 08:55

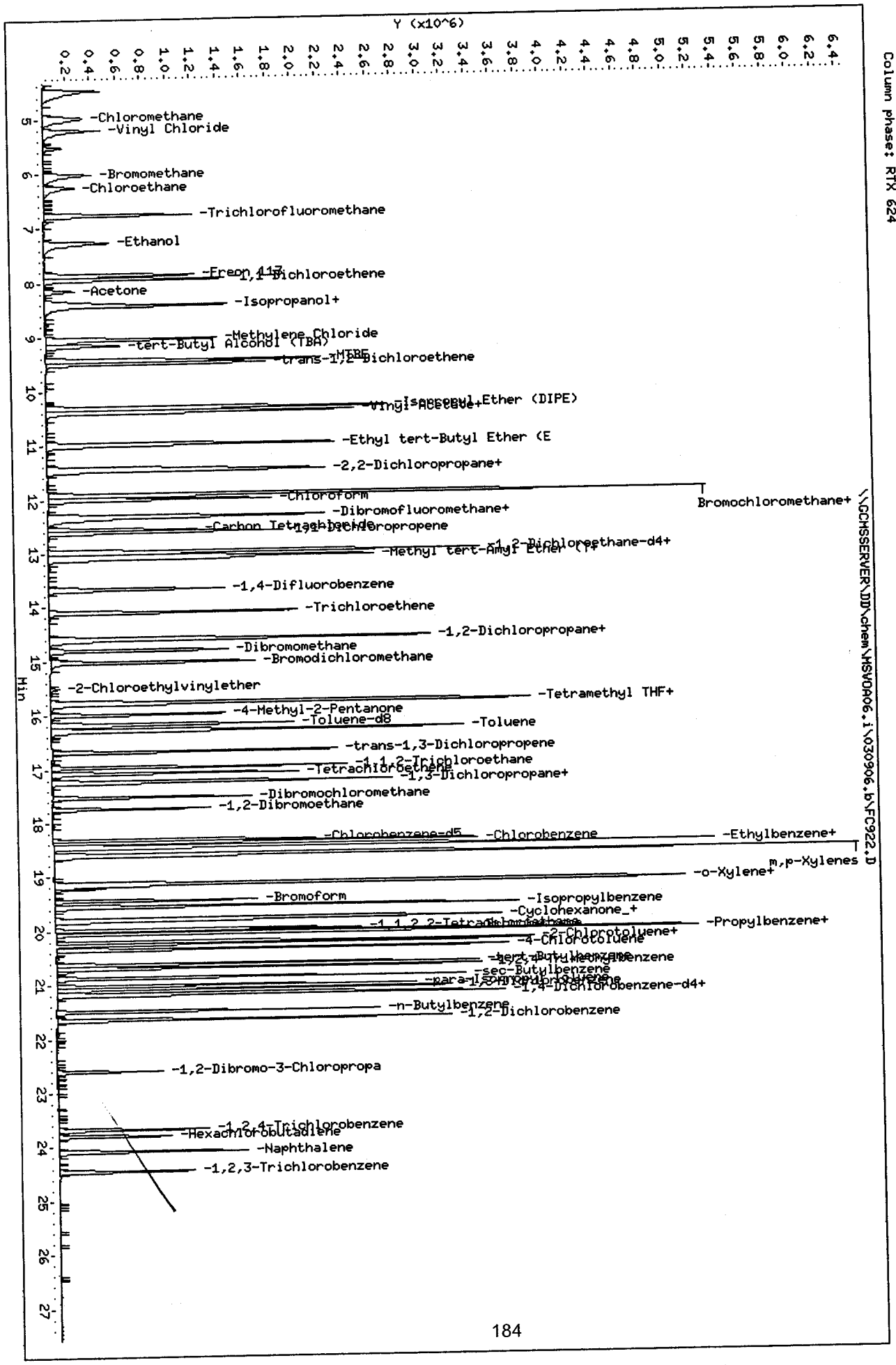
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 Isopropyl Ether (DIPE)	45	10.309	10.309	(0.835)	4513596	75.0000	71.4325
19 Vinyl Acetate	43	10.398	10.398	(0.842)	3100503	75.0000	74.6019
18 1,1-Dichloroethane	63	10.378	10.378	(0.840)	1888579	75.0000	72.2626
20 Ethyl tert-Butyl Ether (ETBE)	59	10.989	10.989	(0.890)	3373779	75.0000	72.3579
21 2,2-Dichloropropane	77	11.423	11.423	(0.925)	1210205	75.0000	71.4719
22 cis-1,2-Dichloroethene	96	11.462	11.462	(0.928)	1118169	75.0000	67.3002
23 2-Butanone	43	11.482	11.482	(0.930)	720071	75.0000	71.8412
24 Bromochloromethane	128	11.915	11.915	(0.965)	565654	75.0000	72.9477
25 Tetrahydrofuran	42	11.915	11.915	(0.965)	3511064	750.000	640.2314
26 Chloroform	83	12.004	12.004	(0.972)	1868846	75.0000	72.4652
$ 27 Dibromofluoromethane	113	12.309	12.309	(0.997)	642535	50.0000	48.9955
28 1,1,1-Trichloroethane	97	12.319	12.319	(0.998)	1287069	75.0000	75.9935
* 29 Pentafluorobenzene	168	12.349	12.349	(1.000)	983803	50.0000	
30 Carbon Tetrachloride	117	12.556	12.556	(0.919)	971535	75.0000	85.2145
31 1,1-Dichloropropene	75	12.605	12.605	(0.922)	1260534	75.0000	76.6630
$ 32 1,2-Dichloroethane-d4	65	12.979	12.979	(0.950)	685871	50.0000	48.6306
33 Benzene	78	12.979	12.979	(0.950)	3918046	75.0000	71.7468
34 Methyl tert-Amyl Ether (TAME)	73	13.068	13.068	(0.956)	3136472	75.0000	72.3305
35 1,2-Dichloroethane	62	13.117	13.117	(0.960)	1334417	75.0000	72.9591
* 36 1,4-Difluorobenzene	114	13.669	13.669	(1.000)	1747886	50.0000	
37 Trichloroethene	95	14.102	14.102	(1.032)	966395	75.0000	74.8799
38 1,2-Dichloropropane	63	14.585	14.585	(1.067)	1107767	75.0000	70.2152
$ 39 Trifluorotoluene	146	14.605	14.605	(1.068)	1189064	75.0000	83.6144
40 Dibromomethane	93	14.802	14.802	(1.083)	806512	75.0000	73.8610
41 Bromodichloromethane	83	15.028	15.028	(1.099)	1390340	75.0000	74.9705
42 2-Chloroethylvinylether	63	15.511	15.511	(1.135)	40783	75.0000	38.7444
43 Tetramethyl THF	43	15.767	15.767	(1.154)	2417674	75.0000	71.4573
44 cis-1,3-Dichloropropene	75	15.787	15.787	(1.155)	1718761	75.0000	72.5420
45 4-Methyl-2-Pentanone	43	15.984	15.984	(1.169)	1429692	75.0000	73.7520
$ 46 Toluene-d8	98	16.171	16.171	(1.183)	1889138	50.0000	49.6309
47 Toluene	92	16.279	16.279	(1.191)	2228979	75.0000	72.4570
48 trans-1,3-Dichloropropene	75	16.674	16.674	(1.220)	1620501	75.0000	74.1003
49 1,1,2-Trichloroethane	85	16.959	16.959	(1.241)	585538	75.0000	73.3584
50 Tetrachloroethene	166	17.087	17.087	(0.932)	795356	75.0000	81.1169
51 1,3-Dichloropropane	76	17.235	17.235	(0.940)	1742644	75.0000	73.1854
52 2-Hexanone	43	17.255	17.255	(0.941)	979800	75.0000	73.2771
53 Dibromochloromethane	129	17.531	17.531	(0.956)	1070493	75.0000	79.4115
54 1,2-Dibromoethane	107	17.738	17.738	(1.298)	1089629	75.0000	72.6898
* 55 Chlorobenzene-d5	117	18.329	18.329	(1.000)	1423129	50.0000	
56 Chlorobenzene	112	18.368	18.368	(1.002)	2320483	75.0000	74.1318
57 Ethylbenzene	91	18.447	18.447	(1.006)	3862770	75.0000	75.1074
58 1,1,1,2-Tetrachloroethane	131	18.457	18.457	(1.007)	852436	75.0000	73.4760
59 m,p-Xylenes	106	18.595	18.595	(1.015)	2682478	150.000	146.6064
60 o-Xylene	106	19.127	19.127	(1.044)	1381639	75.0000	73.9426
61 Styrene	104	19.156	19.156	(1.045)	2498199	75.0000	75.5079
62 Bromoform	173	19.442	19.442	(1.061)	843331	75.0000	77.1143
63 Isopropylbenzene	105	19.550	19.550	(0.924)	3121084	75.0000	73.4818

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC922.D
Report Date: 10-Mar-2006 08:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone_	55	19.777	19.777	(0.935)	1798622	750.000	749.8215
$ 65 Bromofluorobenzene	95	19.816	19.816	(0.937)	826900	50.0000	49.1862
66 1,1,2,2-Tetrachloroethane	83	19.974	19.974	(0.944)	1474539	75.0000	70.9129
67 Bromobenzene	156	20.013	20.013	(0.946)	1050621	75.0000	72.7516
68 Propylbenzene	91	20.043	20.043	(0.947)	3815553	75.0000	72.6219
69 1,2,3-Trichloropropane	75	20.063	20.063	(0.948)	1165141	75.0000	68.8368
70 2-Chlorotoluene	91	20.210	20.210	(0.955)	2895773	75.0000	72.0382
71 1,3,5-Trimethylbenzene	105	20.240	20.240	(0.957)	2371285	75.0000	76.9408
72 4-Chlorotoluene	91	20.338	20.338	(0.961)	2718962	75.0000	72.8692
73 tert-Butylbenzene	119	20.614	20.614	(0.974)	1915867	75.0000	76.7414
74 1,2,4-Trimethylbenzene	105	20.683	20.683	(0.978)	2340663	75.0000	79.8531
75 sec-Butylbenzene	105	20.870	20.870	(0.986)	2832339	75.0000	81.2370
76 para-Isopropyl Toluene	119	21.018	21.018	(0.993)	2038995	75.0000	83.9592
77 1,3-Dichlorobenzene	146	21.087	21.087	(0.997)	1679510	75.0000	75.2493
* 78 1,4-Dichlorobenzene-d4	152	21.156	21.156	(1.000)	702101	50.0000	
79 1,4-Dichlorobenzene	146	21.186	21.186	(1.001)	1697472	75.0000	74.6126
80 n-Butylbenzene	91	21.491	21.491	(1.016)	1764158	75.0000	93.3842
81 1,2-Dichlorobenzene	146	21.649	21.649	(1.023)	1688656	75.0000	75.8719
82 1,2-Dibromo-3-Chloropropane	75	22.604	22.604	(1.068)	262259	75.0000	76.5558
83 1,2,4-Trichlorobenzene	180	23.678	23.678	(1.119)	546602	75.0000	74.9375
84 Hexachlorobutadiene	225	23.796	23.796	(1.125)	231916	75.0000	75.3866
85 Naphthalene	128	24.082	24.082	(1.138)	1727814	75.0000	75.0760
86 1,2,3-Trichlorobenzene	180	24.447	24.447	(1.156)	525311	75.0000	74.8420

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC922.D
Date : 09-MAR-2006 20:21
Client ID: DYNA P&T
Sample Info: ICAL,S2783,0.015/100,S2844,0.015/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA06.i
Operator: BO
Column diameter: 0.25



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Report Date: 10-Mar-2006 08:55

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC923.D
Lab Smp Id:
Inj Date : 09-MAR-2006 20:56
Operator : BO
Smp Info : ICAL,S2783,0.02/100,S2844,0.02/100,
Misc Info : S2410,0.01/100,100PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\826GOX6W.m
Meth Date : 10-Mar-2006 08:55 target
Cal Date : 09-MAR-2006 20:56
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PC_MSVOA07

Client Smp ID: DYNA P&T
MS Autotune Date: 24-FEB-2006 08:08
Inst ID: MSVOA06.i

Quant Type: ISTD
Cal File: FC923.D
Calibration Sample, Level: 8

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.481	4.481	(0.363)	1932274	100.000	108.7542
2 Chloromethane	50	4.994	4.994	(0.404)	1783185	100.000	99.5383
3 Vinyl Chloride	62	5.210	5.210	(0.422)	1489825	100.000	104.8177
4 Bromomethane	94	6.028	6.028	(0.488)	985003	100.000	104.8919
5 Chloroethane	64	6.255	6.255	(0.506)	751590	100.000	95.9488
6 Trichlorofluoromethane	101	6.767	6.767	(0.548)	2160616	100.000	109.7783
7 Ethanol	45	7.269	7.269	(0.588)	1894234	10000.0	9097.1903
8 Freon 113	101	7.860	7.860	(0.636)	1219533	100.000	99.9470
9 1,1-Dichloroethene	96	7.939	7.939	(0.643)	1146704	100.000	97.7129
10 Acetone	43	8.146	8.146	(0.659)	734080	100.000	100.8447
11 Isopropanol	45	8.353	8.353	(0.676)	1021197	1000.00	916.3255
12 Carbon Disulfide	76	8.412	8.412	(0.681)	4689545	100.000	98.1283
13 Methylene Chloride	84	9.033	9.033	(0.731)	1600254	100.000	93.5574
14 tert-Butyl Alcohol (TBA)	59	9.161	9.161	(0.742)	1417123	1000.00	920.8315
15 MTBE	73	9.427	9.427	(0.763)	4485267	100.000	93.4426
16 trans-1,2-Dichloroethene	96	9.486	9.486	(0.768)	1330193	100.000	91.4049

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC923.D
Report Date: 10-Mar-2006 08:55

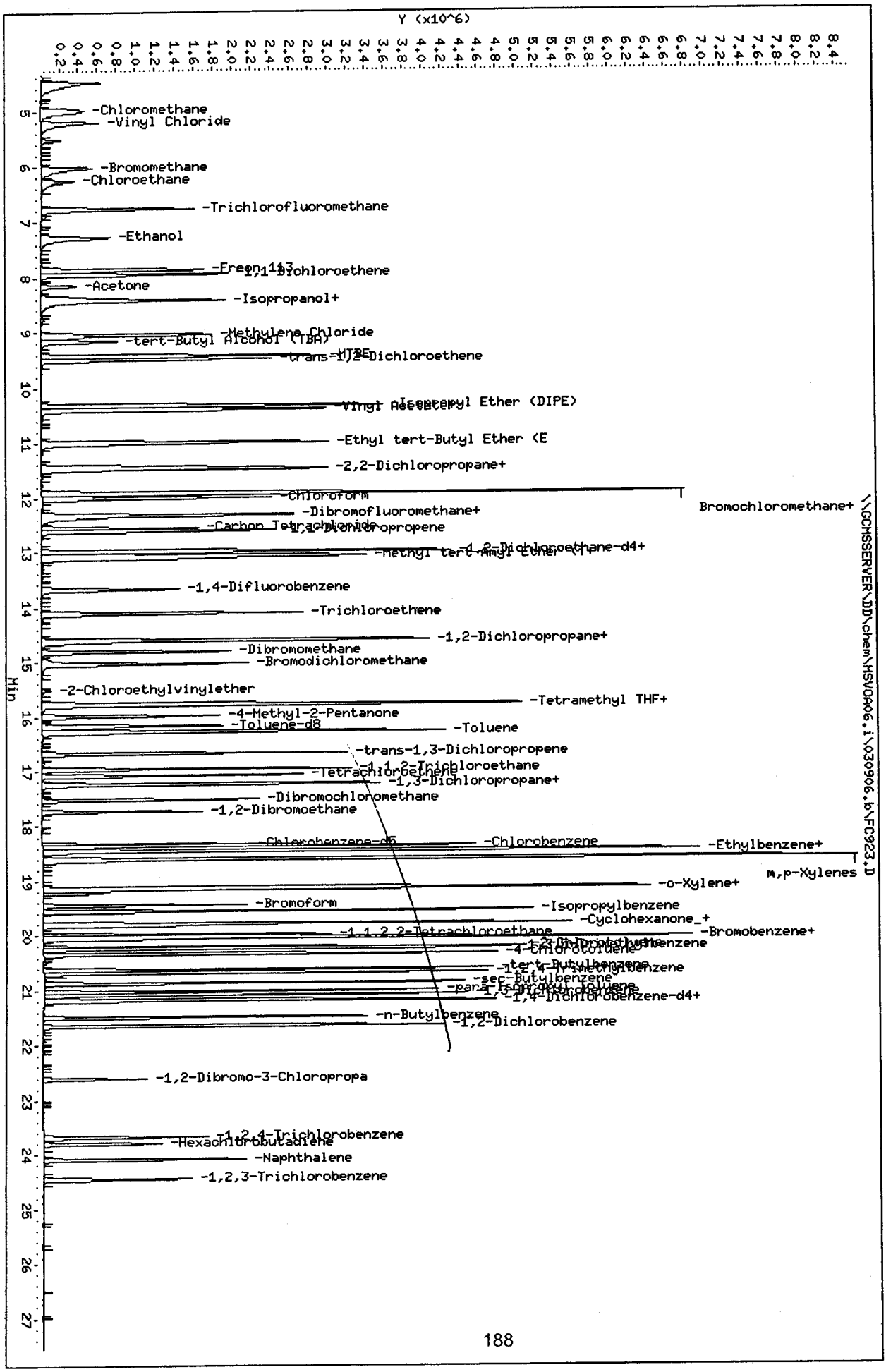
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 Isopropyl Ether (DIPE)	45	10.313	10.313	(0.835)	5974827	100.000	91.7136
19 Vinyl Acetate	43	10.392	10.392	(0.841)	3384763	100.000	78.9917
18 1,1-Dichloroethane	63	10.382	10.382	(0.841)	2493150	100.000	92.5257
20 Ethyl tert-Butyl Ether (ETBE)	59	10.983	10.983	(0.889)	4512919	100.000	93.8776
21 2,2-Dichloropropane	77	11.427	11.427	(0.925)	1600480	100.000	91.6774
22 cis-1,2-Dichloroethene	96	11.466	11.466	(0.928)	1491804	100.000	87.0875
23 2-Butanone	43	11.476	11.476	(0.929)	978382	100.000	94.6764
24 Bromochloromethane	128	11.919	11.919	(0.965)	745653	100.000	93.2680
25 Tetrahydrofuran	42	11.919	11.919	(0.965)	4557949	1000.00	806.1261
26 Chloroform	83	12.008	12.008	(0.972)	2487785	100.000	93.5630
$ 27 Dibromofluoromethane	113	12.313	12.313	(0.997)	656932	50.0000	48.5864
28 1,1,1-Trichloroethane	97	12.323	12.323	(0.998)	1708879	100.000	97.8637
* 29 Pentafluorobenzene	168	12.353	12.353	(1.000)	1014315	50.0000	
30 Carbon Tetrachloride	117	12.560	12.560	(0.919)	1330900	100.000	112.3609
31 1,1-Dichloropropene	75	12.609	12.609	(0.922)	1708575	100.000	100.0185
$ 32 1,2-Dichloroethane-d4	65	12.973	12.973	(0.949)	709443	50.0000	48.4172
33 Benzene	78	12.983	12.983	(0.950)	5158056	100.000	90.9146
34 Methyl tert-Amyl Ether (TAME)	73	13.072	13.072	(0.956)	4156305	100.000	92.2576
35 1,2-Dichloroethane	62	13.111	13.111	(0.959)	1808881	100.000	95.1947
* 36 1,4-Difluorobenzene	114	13.673	13.673	(1.000)	1815927	50.0000	
37 Trichloroethene	95	14.106	14.106	(1.032)	1323525	100.000	98.7091
38 1,2-Dichloropropane	63	14.589	14.589	(1.067)	1469631	100.000	89.6615
$ 39 Trifluorotoluene	146	14.609	14.609	(1.068)	1616742	100.000	109.4287
40 Dibromomethane	93	14.806	14.806	(1.083)	1083850	100.000	95.5406
41 Bromodichloromethane	83	15.032	15.032	(1.099)	1875214	100.000	97.3274
42 2-Chloroethylvinylether	63	15.505	15.505	(1.134)	53075	100.000	48.5327
43 Tetramethyl THF	43	15.761	15.761	(1.153)	3191242	100.000	90.7870
44 cis-1,3-Dichloropropene	75	15.791	15.791	(1.155)	2279139	100.000	92.5891
45 4-Methyl-2-Pentanone	43	15.988	15.988	(1.169)	1891787	100.000	93.9330
$ 46 Toluene-d8	98	16.175	16.175	(1.183)	1960991	50.0000	49.5883
47 Toluene	92	16.284	16.284	(1.191)	2945433	100.000	92.1592
48 trans-1,3-Dichloropropene	75	16.678	16.678	(1.220)	2176905	100.000	95.8131
49 1,1,2-Trichloroethane	85	16.963	16.963	(1.241)	757048	100.000	91.2920
50 Tetrachloroethene	166	17.082	17.082	(0.932)	1083947	100.000	106.9016
51 1,3-Dichloropropane	76	17.229	17.229	(0.940)	2311430	100.000	93.8691
52 2-Hexanone	43	17.259	17.259	(0.942)	1330958	100.000	96.2546
53 Dibromochloromethane	129	17.525	17.525	(0.956)	1438908	100.000	103.2188
54 1,2-Dibromoethane	107	17.732	17.732	(1.297)	1457632	100.000	93.5960
* 55 Chlorobenzene-d5	117	18.323	18.323	(1.000)	1471696	50.0000	
56 Chlorobenzene	112	18.362	18.362	(1.002)	3079653	100.000	95.1381
57 Ethylbenzene	91	18.441	18.441	(1.006)	5020015	100.000	94.3877
58 1,1,1,2-Tetrachloroethane	131	18.461	18.461	(1.008)	1116180	100.000	93.0345
59 m,p-Xylenes	106	18.599	18.599	(1.015)	3520834	200.000	186.0752
60 o-Xylene	106	19.131	19.131	(1.044)	1823746	100.000	94.3823
61 Styrene	104	19.150	19.150	(1.045)	3277773	100.000	95.8011
62 Bromoform	173	19.446	19.446	(1.061)	1137725	100.000	100.6006
63 Isopropylbenzene	105	19.554	19.554	(0.924)	4265155	100.000	95.2921

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC923.D
Report Date: 10-Mar-2006 08:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone_	55	19.781	19.781	(0.935)	2674997	1000.00	995.7223
$ 65 Bromofluorobenzene	95	19.810	19.810	(0.936)	843904	50.0000	47.6355
66 1,1,2,2-Tetrachloroethane	83	19.978	19.978	(0.944)	1899829	100.000	86.7025
67 Bromobenzene	156	20.017	20.017	(0.946)	1412798	100.000	92.8377
68 Propylbenzene	91	20.047	20.047	(0.947)	5040806	100.000	91.0454
69 1,2,3-Trichloropropane	75	20.057	20.057	(0.948)	1487796	100.000	83.4129
70 2-Chlorotoluene	91	20.214	20.214	(0.955)	3764807	100.000	88.8768
71 1,3,5-Trimethylbenzene	105	20.244	20.244	(0.957)	3160805	100.000	97.3236
72 4-Chlorotoluene	91	20.342	20.342	(0.961)	3565763	100.000	90.6862
73 tert-Butylbenzene	119	20.618	20.618	(0.974)	2617729	100.000	99.5031
74 1,2,4-Trimethylbenzene	105	20.687	20.687	(0.978)	3130796	100.000	101.3574
75 sec-Butylbenzene	105	20.865	20.865	(0.986)	3850955	100.000	104.8153
76 para-Isopropyl Toluene	119	21.012	21.012	(0.993)	2827491	100.000	110.4844
77 1,3-Dichlorobenzene	146	21.081	21.081	(0.996)	2240894	100.000	95.2772
* 78 1,4-Dichlorobenzene-d4	152	21.160	21.160	(1.000)	739864	50.0000	
79 1,4-Dichlorobenzene	146	21.190	21.190	(1.001)	2280190	100.000	95.1104
80 n-Butylbenzene	91	21.495	21.495	(1.016)	2458940	100.000	123.5184
81 1,2-Dichlorobenzene	146	21.643	21.643	(1.023)	2253209	100.000	96.0703
82 1,2-Dibromo-3-Chloropropane	75	22.608	22.608	(1.068)	347090	100.000	99.0513
83 1,2,4-Trichlorobenzene	180	23.672	23.672	(1.119)	781623	100.000	90.2392
84 Hexachlorobutadiene	225	23.800	23.800	(1.125)	339835	100.000	98.1541
85 Naphthalene	128	24.086	24.086	(1.138)	2376968	100.000	92.1364
86 1,2,3-Trichlorobenzene	180	24.451	24.451	(1.155)	750326	100.000	90.9098

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\030906.b\FC923.D
Date : 09-MAR-2006 20:56
Client ID: DYNA P&T
Sample Info: ICAL,S2783,0,02/100,S2844,0,02/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA06.i
Operator: BO
Column diameter: 0.25



CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 8260B

Inst : MSVOA08 Name : 826GOX8
Calnum : 476046588001 Date : 01-FEB-2006 15:57 Type : WATER Inj Vol: 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	hb110	476046588010	1.0/0.5 PPB	01-FEB-2006 15:57	S2349 (1000000X), S2552 (500000X), S2028 (1000000X), S2284 (5000X)
L2	hb111	476046588011	2 PPB	01-FEB-2006 16:34	S2349 (250000X), S2552 (250000X), S2028 (500000X), S2284 (5000X)
L3	hb112	476046588012	5 PPB	01-FEB-2006 17:10	S2349 (100000X), S2552 (100000X), S2028 (200000X), S2284 (5000X)
L4	hb113	476046588013	10 PPB	01-FEB-2006 17:47	S2349 (50000X), S2552 (50000X), S2028 (100000X), S2284 (5000X)
L5	hb114	476046588014	20 PPB	01-FEB-2006 18:24	S2349 (25000X), S2552 (25000X), S2028 (50000X), S2284 (5000X)
L6	hb115	476046588015	50 PPB	01-FEB-2006 19:01	S2349 (10000X), S2552 (10000X), S2028 (20000X), S2284 (5000X)
L7	hb116	476046588016	75 PPB	01-FEB-2006 19:39	S2349 (6667X), S2552 (6667X), S2028 (13330X), S2284 (5000X)
L8	hb117	476046588017	100 PPB	01-FEB-2006 20:16	S2349 (5000X), S2552 (5000X), S2028 (10000X), S2284 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Freon 12	0.4151m	0.4864m	0.5409m	0.6541	0.6818	0.6644	0.6143		LINR	R	-0.14708	1.583834		ug/L	0.5796	0.997	0.050	0.99	15	
Chloromethane	1.1138m	0.9813m	0.9454m	0.9524	0.9198	0.8396	0.7439	0.7086	AVRG	R		1.110360		ug/L	0.9006	15	0.10	0.99	15	
Vinyl Chloride	0.6240m	0.6235m	0.6467m	0.7372	0.7211	0.7003	0.6363	0.6098	AVRG	R		1.509729		ug/L	0.6624	7	0.050	0.99	15	
Bromomethane	0.2005m	0.1667m	0.2456m	0.2780m	0.2834m	0.3154	0.3227		QUAD	R	0.825044	3.330394	-0.01132	ug/L	0.2589	1.000	0.050	0.99	15	
Chloroethane	0.4178m	0.4212m	0.3688m	0.4309m	0.4142m	0.3899	0.3490	0.3338	AVRG	R		2.559573		ug/L	0.3907	9	0.050	0.99	15	
Trichlorofluoromethane	0.3799	0.4065	0.4641	0.5536	0.5569	0.5281	0.4977	0.4728	AVRG	R		2.072747		ug/L	0.4825	13	0.050	0.99	15	189
Acetone			0.3077	0.3039	0.3072	0.3220	0.2828	0.2890	AVRG	R		3.309947		ug/L	0.3021	5	0.050	0.99	15	
Freon 113	0.1178m	0.1580	0.2916	0.4237	0.4352	0.4515	0.4332		LINR	R	0.777856	2.248929		ug/L	0.3302	0.999	0.050	0.99	15	
1,1-Dichloroethene	0.2897m	0.2779	0.3330	0.4181	0.4044	0.4116	0.3879	0.3575	AVRG	R		2.777622		ug/L	0.3600	15	0.050	0.99	15	
Methylene Chloride		0.7334m	0.6342	0.5835	0.5733	0.5423	0.5051	0.5046	AVRG	R		1.717212		ug/L	0.5823	14	0.050	0.99	15	
Carbon Disulfide	1.5006	1.5184	1.7653	2.0342	2.0276	1.9857	1.8412	1.7034	AVRG	R		0.556466		ug/L	1.7971	12	0.050	0.99	15	
MTBE	1.4171	1.4923	1.5365	1.5516	1.5167	1.4561	1.3333	1.3183	AVRG	R		0.688354		ug/L	1.4527	6	0.050	0.99	15	
trans-1,2-Dichloroethene	0.4628	0.4006	0.4450	0.4870	0.4752	0.4722	0.4570	0.4347	AVRG	R		2.201178		ug/L	0.4543	6	0.050	0.99	15	
Vinyl Acetate	1.5328	1.6819	1.7830	1.9063	1.8890	1.6148	1.4593	1.2739	AVRG	R		0.608787		ug/L	1.6426	13	0.050	0.99	15	
1,1-Dichloroethane	0.9496	0.9983	1.0666	1.0794	1.0409	1.0274	0.9539	0.8888	AVRG	R		0.999388		ug/L	1.0006	7	0.10	0.99	15	
2-Butanone		0.4880	0.4913	0.4731	0.4622	0.4595	0.4176	0.4111	AVRG	R		2.185554		ug/L	0.4575	7	0.050	0.99	15	
2,2-Dichloropropane	0.5122	0.5059	0.6010	0.6861	0.6552	0.6356	0.5833	0.5041	AVRG	R		1.708150		ug/L	0.5854	12	0.050	0.99	15	
cis-1,2-Dichloroethene	0.5183	0.4752	0.4877	0.5292	0.5163	0.5092	0.4866	0.4712	AVRG	R		2.003118		ug/L	0.4992	4	0.050	0.99	15	
Chloroform	0.8148	0.8255	0.8782	0.8968	0.8833	0.8371	0.7744	0.7315	AVRG	R		1.204527		ug/L	0.8302	7	0.050	0.99	15	
Bromochloromethane	0.2142	0.2156	0.2399	0.2331	0.2382	0.2343	0.2214	0.2196	AVRG	R		4.404502		ug/L	0.2270	5	0.050	0.99	15	
1,1,1-Trichloroethane	0.4001	0.4519	0.5032	0.6053	0.5896	0.5773	0.5547	0.4988	AVRG	R		1.913520		ug/L	0.5226	14	0.050	0.99	15	
1,1-Dichloropropene	0.2447	0.2083	0.2547	0.3290	0.3162	0.3280	0.3070		LINR	R	0.125587	3.178137		ug/L	0.2840	0.998	0.050	0.99	15	
Carbon Tetrachloride	0.1425	0.1255	0.1684	0.2209	0.2111	0.2212	0.2119		LINR	R	0.382218	4.625812		ug/L	0.1859	0.999	0.050	0.99	15	
1,2-Dichloroethane	0.3290	0.3566	0.3730	0.3832	0.3600	0.3471	0.3184	0.3089	AVRG	R		2.881620		ug/L	0.3470	8	0.050	0.99	15	
Benzene	0.8564	0.8089	0.8496	0.9091	0.8606	0.8489	0.8112	0.7458	AVRG	R		1.195760		ug/L	0.8363	6	0.050	0.99	15	
Trichloroethene	0.1627	0.1732	0.1965	0.2227	0.2156	0.2238	0.2183	0.2074	AVRG	R		4.937778		ug/L	0.2025	11	0.050	0.99	15	

476046588001

ICAL-OK ICV- Freon 12, Cyclohexanone & CUSACE Chloromethane)

LW 2-2-06

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
1,2-Dichloropropane	0.2831	0.2886	0.2996	0.3029	0.2842	0.2919	0.2729	0.2684	AVRG	R		3.490764		ug/L	0.2865	4	0.050	0.99	15	
Bromodichloromethane	0.2953	0.3052	0.3071	0.3218	0.3140	0.3067	0.2885	0.2923	AVRG	R		3.290899		ug/L	0.3039	4	0.050	0.99	15	
Dibromomethane	0.1424	0.1637	0.1655	0.1683	0.1628	0.1612	0.1518	0.1548	AVRG	R		6.296610		ug/L	0.1588	5	0.050	0.99	15	
2-Chloroethylvinylether	0.0286	0.0397	0.0587	0.0674	0.0874	0.0965	0.0966	0.1118	QUAD	R	1.104955	11.74411	-0.25468	ug/L	0.0733	0.999	0.050	0.99	15	
4-Methyl-2-Pentanone		0.3873	0.4538	0.4258	0.4349	0.4090	0.3915	0.3949	AVRG	R		2.416124		ug/L	0.4139	6	0.050	0.99	15	
Tetramethyl THF	0.7111	0.7195	0.7534	0.7676	0.7541	0.6961	0.6362	0.6192	AVRG	R		1.414150		ug/L	0.7071	8	0.050	0.99	15	
cis-1,3-Dichloropropene	0.3819	0.3876	0.4034	0.4195	0.4083	0.3952	0.3796	0.3739	AVRG	R		2.540201		ug/L	0.3937	4	0.050	0.99	15	
Toluene	0.4245	0.4067	0.4255	0.4699	0.4793	0.4874	0.4630	0.4407	AVRG	R		2.224154		ug/L	0.4496	7	0.050	0.99	15	
trans-1,3-Dichloropropene	0.3598	0.3456	0.3725	0.3922	0.3717	0.3707	0.3424	0.3411	AVRG	R		2.762469		ug/L	0.3620	5	0.050	0.99	15	
1,1,2-Trichloroethane	0.1290	0.1162	0.1201	0.1208	0.1211	0.1220	0.1153	0.1152	AVRG	R		8.335518		ug/L	0.1200	4	0.050	0.99	15	
2-Hexanone		0.3203	0.3488	0.3271	0.3545	0.3556	0.3197	0.3266	AVRG	R		2.975441		ug/L	0.3361	5	0.050	0.99	15	
1,3-Dichloropropane	0.4389	0.4620	0.4726	0.4827	0.4706	0.4683	0.4380	0.4251	AVRG	R		2.186803		ug/L	0.4573	4	0.050	0.99	15	
Tetrachloroethene	0.1024	0.1086	0.1325	0.1746	0.1691	0.1910	0.1890	0.1735	LINR	R	0.397786	5.502124		ug/L	0.1551	0.996	0.050	0.99	15	
Dibromochloromethane	0.1987	0.2100	0.2161	0.2254	0.2253	0.2312	0.2229	0.2249	AVRG	R		4.559602		ug/L	0.2193	5	0.050	0.99	15	
1,2-Dibromoethane	0.2001	0.2008	0.2119	0.2211	0.2157	0.2180	0.2138	0.2124	AVRG	R		4.723125		ug/L	0.2117	4	0.050	0.99	15	
Chlorobenzene	0.5567	0.5160	0.5276	0.5654	0.5698	0.5729	0.5488	0.5289	AVRG	R		1.823986		ug/L	0.5482	4	0.30	0.99	15	
1,1,1,2-Tetrachloroethane	0.1605	0.1693	0.1869	0.1887	0.1896	0.2002	0.1896	0.1895	AVRG	R		5.426352		ug/L	0.1843	7	0.050	0.99	15	
Ethylbenzene	0.9026	0.8113	0.8857	0.9985	0.9991	1.0216	0.9315	0.8607	AVRG	R		1.079459		ug/L	0.9264	8	0.050	0.99	15	
m,p-Xylenes	0.2767	0.2810	0.3029	0.3456	0.3529	0.3666	0.3329	0.3116	AVRG	R		3.112625		ug/L	0.3213	10	0.050	0.99	15	
o-Xylene	0.2912	0.2939	0.3043	0.3348	0.3390	0.3596	0.3342	0.3174	AVRG	R		3.107514		ug/L	0.3218	8	0.050	0.99	15	
Styrene	0.5548	0.5275	0.5636	0.6055	0.6189	0.6352	0.5876	0.5647	AVRG	R		1.717548		ug/L	0.5822	6	0.050	0.99	15	
Bromoform	0.1688	0.1316	0.1365	0.1390	0.1418	0.1504	0.1438	0.1479	AVRG	R		6.897647		ug/L	0.1450	8	0.10	0.99	15	
Isopropylbenzene	1.5438	1.4555	1.6073	2.0268	1.9776	2.0193	1.9027	1.6939	AVRG	R		0.562316		ug/L	1.7784	13	0.050	0.99	15	
1,1,2,2-Tetrachloroethane	0.9032	0.8304	0.8962	0.9078	0.8967	0.8572	0.8192	0.7941	AVRG	R		1.158629		ug/L	0.8631	5	0.30	0.99	15	
1,2,3-Trichloropropane	0.1668	0.1926	0.2120	0.2073	0.2063	0.2019	0.1926	0.1905	AVRG	R		5.095546		ug/L	0.1962	7	0.050	0.99	15	
Propylbenzene	2.0577	1.8904	2.2141	2.6620	2.6527	2.5749	2.3658	2.0471	AVRG	R		0.433261		ug/L	2.3081	13	0.050	0.99	15	
Bromobenzene	0.4531	0.4099	0.4353	0.4517	0.4577	0.4711	0.4550	0.4423	AVRG	R		2.237073		ug/L	0.4470	4	0.050	0.99	15	
1,3,5-Trimethylbenzene	1.2777	1.2852	1.3139	1.6063	1.5918	1.6205	1.4605	1.3280	AVRG	R		0.696621		ug/L	1.4355	11	0.050	0.99	15	
2-Chlorotoluene	1.7862	1.5835	1.6041	1.7827	1.7598	1.7075	1.5311	1.3994	AVRG	R		0.608172		ug/L	1.6443	8	0.050	0.99	15	
4-Chlorotoluene	1.6456	1.4988	1.5292	1.6648	1.6162	1.6258	1.5251	1.4182	AVRG	R		0.638789		ug/L	1.5655	5	0.050	0.99	15	
tert-Butylbenzene	0.8774	0.8388	1.0060	1.2841	1.2444	1.3217	1.2677		LINR	R	0.450397	0.773405		ug/L	1.1200	0.999	0.050	0.99	15	
1,2,4-Trimethylbenzene	1.4339	1.3416	1.4258	1.6135	1.5924	1.5935	1.5202	1.4123	AVRG	R		0.670398		ug/L	1.4917	7	0.050	0.99	15	
sec-Butylbenzene	1.2475	1.3272	1.6220	2.1791	2.1613	2.2313	2.1074		LINR	R	0.327947	0.462987		ug/L	1.8394	0.998	0.050	0.99	15	
para-Isopropyl Toluene	1.0840	1.0360	1.2061	1.5480	1.5565	1.6336	1.5342		LINR	R	0.356802	0.634935		ug/L	1.3712	0.998	0.050	0.99	15	
1,3-Dichlorobenzene	0.8091	0.7340	0.8052	0.8442	0.8505	0.8577	0.8387	0.8175	AVRG	R		1.220070		ug/L	0.8196	5	0.050	0.99	15	
1,4-Dichlorobenzene	0.7822	0.8183	0.8098	0.9145	0.8748	0.8893	0.8767	0.8502	AVRG	R		1.173746		ug/L	0.8520	5	0.050	0.99	15	
n-Butylbenzene	1.0807	1.0327	1.2935	1.7274	1.6448	1.6976	1.6096		LINR	R	0.207835	0.608073		ug/L	1.4409	0.999	0.050	0.99	15	
1,2-Dichlorobenzene	0.7369	0.7380	0.7629	0.8303	0.8134	0.8229	0.8021	0.7916	AVRG	R		1.270222		ug/L	0.7873	5	0.050	0.99	15	
1,2-Dibromo-3-Chloropropane	0.1732	0.1755	0.1583	0.1618	0.1603	0.1554	0.1438	0.1452	AVRG	R		6.281555		ug/L	0.1592	7	0.050	0.99	15	
1,2,4-Trichlorobenzene	0.3325	0.3446	0.3744	0.4148	0.4141	0.4276	0.4232	0.4135	AVRG	R		2.544061		ug/L	0.3931	10	0.050	0.99	15	
Hexachlorobutadiene	0.0550	0.0680	0.0965	0.1488	0.1496	0.1632	0.1604	0.1413	LINR	R	0.220488	6.609546		ug/L	0.1229	0.992	0.050	0.99	15	

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Analyte	L1	L2	L3	L4	L5	L6	L7	L8	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Naphthalene	0.9422	0.9239	1.0503	1.1446	1.1383	1.1668	1.1398	1.1973	AVRG	R		0.919202		ug/L	1.0879	10	0.050	0.99	15	
1,2,3-Trichlorobenzene	0.3231	0.3429	0.3624	0.4014	0.4064	0.4080	0.4047	0.4118	AVRG	R		2.613631		ug/L	0.3826	9	0.050	0.99	15	
tert-Butyl Alcohol (TBA)	0.0639	0.0587	0.0634	0.0624	0.0622	0.0598	0.0547	0.0567	AVRG	R		16.60685		ug/L	0.0602	6	0.005	0.99	15	
Isopropyl Ether (DIPE)	2.4625	2.6487	2.7054	2.7350	2.6450	2.4987	2.2193	2.1070	AVRG	R		0.399572		ug/L	2.5027	9	0.050	0.99	15	
Ethyl tert-Butyl Ether (ETBE)	1.5816	1.6753	1.7529	1.7571	1.7211	1.6247	1.4924	1.4174	AVRG	R		0.614319		ug/L	1.6278	8	0.050	0.99	15	
Methyl tert-Amyl Ether (TAME)	0.7175	0.7019	0.7517	0.7718	0.7323	0.7051	0.6665	0.6303	AVRG	R		1.409185		ug/L	0.7096	6	0.050	0.99	15	
Cyclohexanone		0.1549	0.1132	0.1172	0.1123	0.1383	0.1222	0.1220	AVRG	R		7.952449		ug/L	0.1257	12	0.005	0.99	15	
Ethanol		0.0100	0.0109	0.0108	0.0111	0.0110	0.0098	0.0102	AVRG	R		94.87108		ug/L	0.0105	5	0.0005	0.99	15	
Isopropanol		0.0553	0.0544	0.0546	0.0553	0.0542	0.0488	0.0511	AVRG	R		18.72995		ug/L	0.0534	5	0.005	0.99	15	
Tetrahydrofuran		0.2651	0.2777	0.2672	0.2636	0.2341	0.2009	0.1890	AVRG	R		4.123493		ug/L	0.2425	15	0.005	0.99	15	
Dibromofluoromethane	0.7895	0.7897	0.7962	0.7990	0.7857	0.7599	0.7497	0.7444	AVRG	R		1.287404		ug/L	0.7768	3	0.050	0.99	15	
1,2-Dichloroethane-d4	0.5427	0.5307	0.5462	0.5415	0.5126	0.4835	0.4655	0.4394	AVRG	R		1.969427		ug/L	0.5078	8	0.050	0.99	15	
Trifluorotoluene	0.1167	0.1212	0.1619	0.2202	0.2198	0.2378	0.2363	0.2120	LINR	R	0.181402	4.460388		ug/L	0.1908	0.994	0.050	0.99	15	
Toluene-d8	1.1334	1.1229	1.1438	1.1248	1.1278	1.1228	1.1178	1.1078	AVRG	R		0.888778		ug/L	1.1251	1	0.050	0.99	15	
Bromofluorobenzene	1.3553	1.3675	1.3498	1.3266	1.2998	1.2772	1.2421	1.2086	AVRG	R		0.767243		ug/L	1.3034	4	0.050	0.99	15	

m=manual integration

AVRG=Average response factor LINR=Linear regression QUAD=Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA08
Seqnum : 476046588018
Cal : 476046588001

File : hb118
Caldate: 01-FEB-2006

IDF : 1.0
Time : 01-FEB-2006 20:53
Caltype: WATER

Standards: S2606 (10000X), S2284 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	0.5796	0.3807	25.00	14.93	ug/L	-40	30	v- ***
Chloromethane	0.9006	0.6647	25.00	18.45	ug/L	-26	30	!v- m
Vinyl Chloride	0.6624	0.5351	25.00	20.20	ug/L	-19	20	
Bromomethane	0.2589	0.2475	25.00	21.00	ug/L	-16	30	m
Chloroethane	0.3907	0.3123	25.00	19.98	ug/L	-20	30	
Trichlorofluoromethane	0.4825	0.4626	25.00	23.97	ug/L	-4	30	

ISTD (ICAL hb115)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1400499	1472319	5.13	10.48	10.47	-0.01
1,4-Difluorobenzene	2944215	3002868	1.99	11.61	11.62	0.01
1,4-Dichlorobenzene-d4	1111278	1106838	-0.40	18.34	18.33	-0.01

LW 2-2-06

2/3/06

!=warning -=low bias m=manual integration v=ICV

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA08
Seqnum : 476046588019
Cal : 476046588001

File : hb119
Caldate: 01-FEB-2006

IDF : 1.0
Time : 01-FEB-2006 21:30
Caltype: WATER

Standards: S2436 (10000X), S2616 (10000X), S2284 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Acetone	0.3021	0.2439	25.00	20.19	ug/L	-19	40	
Freon 113	0.3302	0.4138	25.00	24.04	ug/L	-4	30	
1,1-Dichloroethene	0.3600	0.4229	25.00	29.37	ug/L	17	20	
Methylene Chloride	0.5823	0.5485	25.00	23.55	ug/L	-6	30	
Carbon Disulfide	1.7971	1.5780	25.00	21.95	ug/L	-12	30	
MTBE	1.4527	1.3715	25.00	23.60	ug/L	-6	30	
trans-1,2-Dichloroethene	0.4543	0.4708	25.00	25.91	ug/L	4	30	
Vinyl Acetate	1.6426	1.4765	25.00	22.47	ug/L	-10	40	
1,1-Dichloroethane	1.0006	0.9818	25.00	24.53	ug/L	-2	30	
2-Butanone	0.4575	0.4093	25.00	22.37	ug/L	-11	40	
2,2-Dichloropropane	0.5854	0.5717	25.00	24.41	ug/L	-2	30	
cis-1,2-Dichloroethene	0.4992	0.5262	25.00	26.35	ug/L	5	30	
Chloroform	0.8302	0.8279	25.00	24.93	ug/L	0	20	
Bromochloromethane	0.2270	0.2306	25.00	25.39	ug/L	2	30	
1,1,1-Trichloroethane	0.5226	0.5808	25.00	27.79	ug/L	11	30	
1,1-Dichloropropene	0.2840	0.3294	25.00	26.30	ug/L	5	30	
Carbon Tetrachloride	0.1859	0.2247	25.00	26.37	ug/L	5	30	
1,2-Dichloroethane	0.3470	0.3495	25.00	25.18	ug/L	1	30	
Benzene	0.8363	0.8862	25.00	26.49	ug/L	6	30	
Trichloroethene	0.2025	0.2341	25.00	28.90	ug/L	16	30	
1,2-Dichloropropane	0.2865	0.2883	25.00	25.16	ug/L	1	20	
Bromodichloromethane	0.3039	0.3299	25.00	27.14	ug/L	9	30	
Dibromomethane	0.1588	0.1636	25.00	25.76	ug/L	3	30	
2-Chloroethylvinylether	0.0733	0.0801	25.00	23.61	ug/L	-6	40	
4-Methyl-2-Pentanone	0.4139	0.4111	25.00	24.83	ug/L	-1	40	
Tetramethyl THF	0.7071	0.7380	25.00	26.09	ug/L	4	30	
cis-1,3-Dichloropropene	0.3937	0.4157	25.00	26.40	ug/L	6	30	
Toluene	0.4496	0.5011	25.00	27.86	ug/L	11	20	
trans-1,3-Dichloropropene	0.3620	0.3582	25.00	24.74	ug/L	-1	30	
1,1,2-Trichloroethane	0.1200	0.1261	25.00	26.28	ug/L	5	30	
2-Hexanone	0.3361	0.3374	25.00	25.10	ug/L	0	40	
1,3-Dichloropropane	0.4573	0.4794	25.00	26.21	ug/L	5	30	
Tetrachloroethene	0.1551	0.1968	25.00	27.46	ug/L	10	30	
Dibromochloromethane	0.2193	0.2504	25.00	28.54	ug/L	14	30	
1,2-Dibromoethane	0.2117	0.2272	25.00	26.83	ug/L	7	30	
Chlorobenzene	0.5482	0.5981	25.00	27.27	ug/L	9	30	
1,1,1,2-Tetrachloroethane	0.1843	0.2040	25.00	27.67	ug/L	11	30	
Ethylbenzene	0.9264	1.0588	25.00	28.57	ug/L	14	20	
m,p-Xylenes	0.3213	0.3750	50.00	58.37	ug/L	17	30	
o-Xylene	0.3218	0.3715	25.00	28.86	ug/L	15	30	
Styrene	0.5822	0.6524	25.00	28.01	ug/L	12	30	
Bromoform	0.1450	0.1491	25.00	25.71	ug/L	3	30	
Isopropylbenzene	1.7784	1.9807	25.00	27.85	ug/L	11	30	
1,1,2,2-Tetrachloroethane	0.8631	0.9152	25.00	26.51	ug/L	6	30	
1,2,3-Trichloropropane	0.1962	0.2109	25.00	26.87	ug/L	7	30	
Propylbenzene	2.3081	2.7665	25.00	29.97	ug/L	20	30	
Bromobenzene	0.4470	0.4818	25.00	26.95	ug/L	8	30	
1,3,5-Trimethylbenzene	1.4355	1.6701	25.00	29.09	ug/L	16	30	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
2-Chlorotoluene	1.6443	1.8247	25.00	27.74	ug/L	11	30	
4-Chlorotoluene	1.5655	1.6941	25.00	27.05	ug/L	8	30	
tert-Butylbenzene	1.1200	1.3880	25.00	27.29	ug/L	9	30	
1,2,4-Trimethylbenzene	1.4917	1.6761	25.00	28.09	ug/L	12	30	
sec-Butylbenzene	1.8394	2.3791	25.00	27.87	ug/L	11	30	
para-Isopropyl Toluene	1.3712	1.6227	25.00	26.11	ug/L	4	30	
1,3-Dichlorobenzene	0.8196	0.9071	25.00	27.67	ug/L	11	30	
1,4-Dichlorobenzene	0.8520	0.9389	25.00	27.55	ug/L	10	30	
n-Butylbenzene	1.4409	1.7490	25.00	26.80	ug/L	7	30	
1,2-Dichlorobenzene	0.7873	0.8708	25.00	27.65	ug/L	11	30	
1,2-Dibromo-3-Chloropropane	0.1592	0.1661	25.00	26.08	ug/L	4	30	
1,2,4-Trichlorobenzene	0.3931	0.4313	25.00	27.43	ug/L	10	30	
Hexachlorobutadiene	0.1229	0.1784	25.00	29.70	ug/L	19	30	
Naphthalene	1.0879	1.1792	25.00	27.10	ug/L	8	30	
1,2,3-Trichlorobenzene	0.3826	0.4165	25.00	27.21	ug/L	9	30	
tert-Butyl Alcohol (TBA)	0.0602	0.0578	125.0	120.0	ug/L	-4	30	
Isopropyl Ether (DIPE)	2.5027	2.3832	25.00	23.81	ug/L	-5	30	
Ethyl tert-Butyl Ether (ETBE)	1.6278	1.7254	25.00	26.50	ug/L	6	30	
Methyl tert-Amyl Ether (TAME)	0.7096	0.6886	25.00	24.26	ug/L	-3	30	
Cyclohexanone	0.1257	0.0382	250.0	76.01	ug/L	-70	30	v- ***
Ethanol	0.0105	0.0102	2500	2414	ug/L	-3	30	
Isopropanol	0.0534	0.0501	250.0	234.8	ug/L	-6	30	
Tetrahydrofuran	0.2425	0.2341	250.0	241.3	ug/L	-3	30	

ISTD (ICAL hb115)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1400499	1442265	2.98	10.48	10.47	-0.01
1,4-Difluorobenzene	2944215	2927349	-0.57	11.61	11.62	0.01
Chlorobenzene-d5	2503542	2525552	0.88	15.61	15.62	0.01
1,4-Dichlorobenzene-d4	1111278	1105699	-0.50	18.34	18.33	-0.01

LW 2-2-06

-=low bias v=ICV

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB110.D
Report Date: 02-Feb-2006 10:43

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB110.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 15:57 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.001/1000,S2552,0.002/1000,
Misc Info : S2028,0.001/1000,1.0/0.5 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 15:57 Cal File: HB110.D
Als bottle: 10 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.838	4.823	(0.462)	11211	1.00000	0.5104(M)
2 Chloromethane	50	5.350	5.324	(0.511)	30081	1.00000	1.2367(M)
3 Vinyl Chloride	62	5.419	5.413	(0.517)	16852	1.00000	0.9420(M)
4 Bromomethane	94	6.038	6.042	(0.577)	5415	1.00000	1.4923(M)
5 Chloroethane	64	6.186	6.190	(0.591)	11282	1.00000	1.0692(M)
6 Trichlorofluoromethane	101	6.520	6.534	(0.623)	10259	1.00000	0.7873
7 Ethanol	45	6.786	6.790	(0.648)	13617	50.0000	47.8354(A)
8 Freon 113	101	7.238	7.252	(0.691)	1591	0.50000	0.9103(M)
9 1,1-Dichloroethene	96	7.347	7.360	(0.701)	3912	0.50000	0.4023(aM)
10 Acetone	43	7.455	7.449	(0.712)	13458	0.50000	1.6494
11 Isopropanol	45	7.524	7.527	(0.718)	9709	5.00000	6.7335(A)
12 Carbon Disulfide	76	7.769	7.773	(0.742)	20263	0.50000	0.4175(a)
13 tert-Butyl Alcohol (TBA)	59	8.074	8.077	(0.771)	8627	5.00000	5.3049(A)
14 Methylene Chloride	84	8.104	8.108	(0.774)	19517	0.50000	1.2409(M)
15 MTBE	73	8.330	8.334	(0.795)	19136	0.50000	0.4877(a)
16 trans-1,2-Dichloroethene	96	8.428	8.422	(0.805)	6249	0.50000	0.5093
17 Isopropyl Ether (DIPE)	45	8.930	8.934	(0.853)	33251	0.50000	0.4919(aA)
18 Vinyl Acetate	43	8.999	9.003	(0.859)	20697	0.50000	0.4665(a)
19 1,1-Dichloroethane	63	9.068	9.072	(0.866)	12822	0.50000	0.4744(a)
20 Ethyl tert-Butyl Ether (ETBE)	59	9.442	9.445	(0.901)	21356	0.50000	0.4857(aA)
21 2-Butanone	43	9.855	9.849	(0.941)	8992	0.50000	0.7276
22 2,2-Dichloropropane	77	9.874	9.868	(0.943)	6916	0.50000	0.4374(a)

LW 2-2-06

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB110.D
Report Date: 02-Feb-2006 10:43

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 cis-1,2-Dichloroethene	96	9.884	9.888	(0.944)	6999	0.50000	0.5191
24 Tetrahydrofuran	42	10.248	10.252	(0.978)	41790	5.00000	6.3807(A)
25 Bromochloromethane	128	10.248	10.262	(0.978)	2892	0.50000	0.4716(a)
26 Chloroform	83	10.287	10.281	(0.982)	11003	0.50000	0.4907(a)
* 27 Pentafluorobenzene	168	10.474	10.478	(1.000)	1350317	50.0000	
$ 28 Dibromofluoromethane	113	10.523	10.527	(1.005)	1066047	50.0000	50.8189
29 1,1,1-Trichloroethane	97	10.573	10.576	(1.009)	5402	0.50000	0.3827(a)
30 Carbon Tetrachloride	117	10.779	10.773	(0.929)	4118	0.50000	0.7117
31 1,1-Dichloropropene	75	10.789	10.793	(0.930)	7071	0.50000	0.5143
$ 32 1,2-Dichloroethane-d4	65	11.084	11.088	(0.955)	1568331	50.0000	53.4377
33 Benzene	78	11.114	11.108	(0.958)	24749	0.50000	0.5120
34 Methyl tert-Amyl Ether (TAME)	73	11.114	11.108	(0.958)	20735	0.50000	0.5055(A)
35 1,2-Dichloroethane	62	11.192	11.206	(0.964)	9507	0.50000	0.4739(a)
* 36 1,4-Difluorobenzene	114	11.605	11.609	(1.000)	2890010	50.0000	
37 Trichloroethene	95	12.009	12.012	(1.035)	4702	0.50000	0.4016(a)
$ 38 Trifluorotoluene	146	12.353	12.367	(1.064)	3373	0.50000	0.4416(aA)
39 1,2-Dichloropropane	63	12.412	12.416	(1.069)	8183	0.50000	0.4942(a)
40 Dibromomethane	93	12.599	12.603	(1.086)	4115	0.50000	0.4482(a)
41 Bromodichloromethane	83	12.746	12.750	(1.098)	8535	0.50000	0.4859(a)
42 2-Chloroethylvinylether	63	13.081	13.085	(1.127)	1651	1.00000	1.4402
43 Tetramethyl THF	43	13.307	13.311	(1.147)	20551	0.50000	0.5028(A)
44 cis-1,3-Dichloropropene	75	13.356	13.360	(1.151)	11037	0.50000	0.4850(a)
45 4-Methyl-2-Pentanone	43	13.484	13.498	(1.162)	13500	0.50000	0.5643
$ 46 Toluene-d8	98	13.691	13.694	(1.180)	3275677	50.0000	50.3692
47 Toluene	92	13.789	13.783	(1.188)	12267	0.50000	0.4720(a)
48 trans-1,3-Dichloropropene	75	14.104	14.107	(1.215)	10398	0.50000	0.4969(a)
49 1,1,2-Trichloroethane	85	14.369	14.373	(1.238)	3728	0.50000	0.5376
50 Tetrachloroethene	166	14.497	14.501	(0.929)	2493	0.50000	0.6795
51 2-Hexanone	43	14.586	14.589	(0.934)	6730	0.50000	0.4113(a)
52 1,3-Dichloropropane	76	14.615	14.619	(0.936)	10682	0.50000	0.4798(a)
53 Dibromochloromethane	129	14.890	14.894	(0.954)	4837	0.50000	0.4530(a)
54 1,2-Dibromoethane	107	15.097	15.101	(1.301)	5782	0.50000	0.4724(a)
* 55 Chlorobenzene-d5	117	15.609	15.612	(1.000)	2433786	50.0000	
56 Chlorobenzene	112	15.648	15.652	(1.003)	13548	0.50000	0.5076
57 Ethylbenzene	91	15.697	15.701	(1.006)	21968	0.50000	0.4871(a)
58 1,1,1,2-Tetrachloroethane	131	15.727	15.730	(1.008)	3907	0.50000	0.4355(a)
59 m,p-Xylenes	106	15.835	15.839	(1.014)	13470	1.00000	0.8613
60 o-Xylene	106	16.336	16.340	(1.047)	7086	0.50000	0.4523(a)
61 Styrene	104	16.366	16.360	(1.049)	13502	0.50000	0.4764(a)
62 Bromoform	173	16.661	16.665	(1.067)	4109	0.50000	0.5822
63 Isopropylbenzene	105	16.730	16.734	(0.913)	15744	0.50000	0.4340(a)
64 Cyclohexanone	55	16.986	16.980	(0.926)	16781	5.00000	6.5426(A)
$ 65 Bromofluorobenzene	95	16.995	16.998	(0.927)	1382208	50.0000	51.9929
66 1,1,2,2-Tetrachloroethane	83	17.133	17.137	(0.935)	9211	0.50000	0.5232
67 Bromobenzene	156	17.212	17.206	(0.939)	4621	0.50000	0.5068
68 Propylbenzene	91	17.202	17.206	(0.938)	20985	0.50000	0.4457(a)
69 1,2,3-Trichloropropane	110	17.231	17.235	(0.940)	1701	0.50000	0.4249(a)
70 2-Chlorotoluene	91	17.379	17.383	(0.948)	18216	0.50000	0.5431
71 1,3,5-Trimethylbenzene	105	17.379	17.383	(0.948)	13031	0.50000	0.4450(a)
72 4-Chlorotoluene	91	17.507	17.511	(0.955)	16783	0.50000	0.5256
73 tert-Butylbenzene	119	17.763	17.766	(0.969)	8948	0.50000	0.7896
74 1,2,4-Trimethylbenzene	105	17.831	17.835	(0.973)	14624	0.50000	0.4806(a)
75 sec-Butylbenzene	105	18.018	18.022	(0.983)	12723	0.50000	0.6167
76 para-Isopropyl Toluene	119	18.156	18.160	(0.990)	11055	0.50000	0.7009

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB110.D
Report Date: 02-Feb-2006 10:43

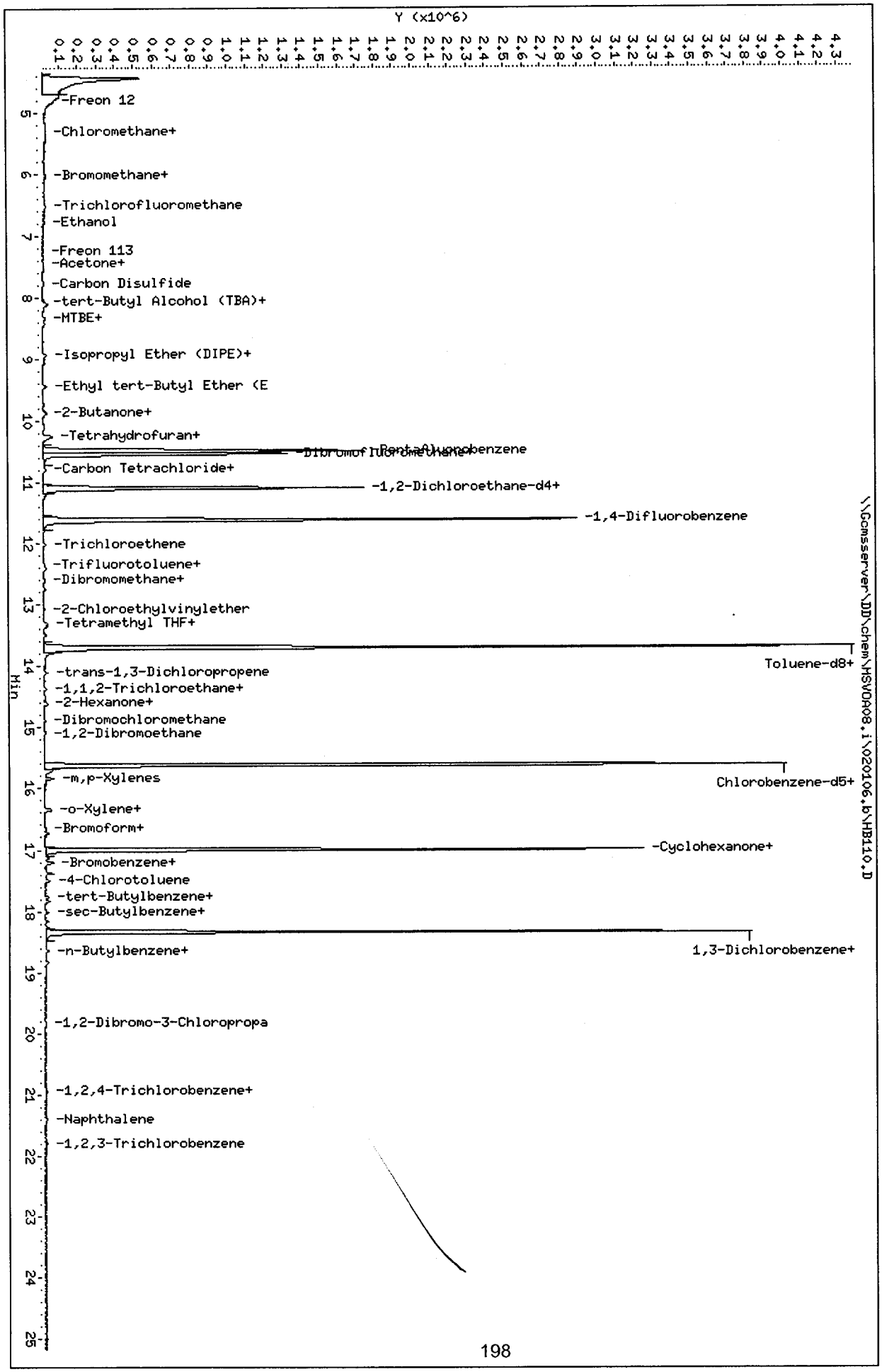
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.264	18.258	(0.996)	8252	0.50000	0.4936(a)
* 78 1,4-Dichlorobenzene-d4	152	18.333	18.337	(1.000)	1019841	50.0000	
79 1,4-Dichlorobenzene	146	18.372	18.366	(1.002)	7977	0.50000	0.4590(a)
80 n-Butylbenzene	91	18.648	18.642	(1.017)	11021	0.50000	0.5363
81 1,2-Dichlorobenzene	146	18.835	18.838	(1.027)	7515	0.50000	0.4680(a)
82 1,2-Dibromo-3-Chloropropane	75	19.828	19.832	(1.082)	1766	0.50000	0.5438
83 1,2,4-Trichlorobenzene	180	20.949	20.963	(1.143)	3391	0.50000	0.4229(a)
84 Hexachlorobutadiene	225	21.067	21.081	(1.149)	561	0.50000	0.4022(a)
85 Naphthalene	128	21.402	21.406	(1.167)	9609	0.50000	0.4330(a)
86 1,2,3-Trichlorobenzene	180	21.795	21.799	(1.189)	3295	0.50000	0.4222(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Ccmsserver\DD\chem\MSVOA08.i\020106.b\HB110.D
Date : 01-FEB-2006 15:57
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.001/1000,S2552,0.002/1000,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB111.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB111.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 16:34 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.002/500,S2552,0.002/500,
Misc Info : S2028,0.001/500,2 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 16:34 Cal File: HB111.D
Als bottle: 11 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.823	4.823	(0.460)	26781	2.00000	1.3937(M)
2 Chloromethane	50	5.325	5.324	(0.508)	54029	2.00000	2.1792(M)
3 Vinyl Chloride	62	5.414	5.413	(0.517)	34330	2.00000	1.8827(M)
4 Bromomethane	94	6.053	6.042	(0.578)	9177	2.00000	1.9340(M)
5 Chloroethane	64	6.191	6.190	(0.591)	23192	2.00000	2.1563(M)
6 Trichlorofluoromethane	101	6.535	6.534	(0.624)	22381	2.00000	1.6851
7 Ethanol	45	6.781	6.790	(0.647)	55079	200.000	189.8147(A)
8 Freon 113	101	7.253	7.252	(0.692)	8700	2.00000	1.4885
9 1,1-Dichloroethene	96	7.351	7.360	(0.702)	15301	2.00000	1.5438
10 Acetone	43	7.459	7.449	(0.712)	26898	2.00000	3.2340
11 Isopropanol	45	7.518	7.527	(0.717)	30452	20.0000	20.7187(A)
12 Carbon Disulfide	76	7.764	7.773	(0.741)	83602	2.00000	1.6899
13 tert-Butyl Alcohol (TBA)	59	8.079	8.077	(0.771)	32300	20.0000	19.4849(A)
14 Methylene Chloride	84	8.099	8.108	(0.773)	40379	2.00000	2.5187(M)
15 MTBE	73	8.335	8.334	(0.795)	82163	2.00000	2.0544
16 trans-1,2-Dichloroethene	96	8.423	8.422	(0.804)	22054	2.00000	1.7634
17 Isopropyl Ether (DIPE)	45	8.935	8.934	(0.853)	145830	2.00000	2.1166(A)
18 Vinyl Acetate	43	9.004	9.003	(0.859)	92601	2.00000	2.0478
19 1,1-Dichloroethane	63	9.063	9.072	(0.865)	54964	2.00000	1.9953
20 Ethyl tert-Butyl Ether (ETBE)	59	9.436	9.445	(0.901)	92238	2.00000	2.0583(A)
21 2-Butanone	43	9.849	9.849	(0.940)	26867	2.00000	2.1330
22 2,2-Dichloropropane	77	9.869	9.868	(0.942)	27856	2.00000	1.7284

LW 2-2-06

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB111.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.879	9.888	(0.943)	26166	2.00000	1.9039
	24 Tetrahydrofuran	42	10.253	10.252	(0.978)	145964	20.0000	21.8635(A)
	25 Bromochloromethane	128	10.253	10.262	(0.978)	11872	2.00000	1.8994
	26 Chloroform	83	10.282	10.281	(0.981)	45453	2.00000	1.9887
*	27 Pentafluorobenzene	168	10.479	10.478	(1.000)	1376448	50.0000	
$	28 Dibromofluoromethane	113	10.528	10.527	(1.005)	1086918	50.0000	50.8302
	29 1,1,1-Trichloroethane	97	10.567	10.576	(1.008)	24880	2.00000	1.7293
	30 Carbon Tetrachloride	117	10.774	10.773	(0.928)	14767	2.00000	1.5430
	31 1,1-Dichloropropene	75	10.784	10.793	(0.929)	24519	2.00000	1.4498
$	32 1,2-Dichloroethane-d4	65	11.089	11.088	(0.955)	1561574	50.0000	52.2629
	33 Benzene	78	11.108	11.108	(0.957)	95194	2.00000	1.9343
	34 Methyl tert-Amyl Ether (TAME)	73	11.108	11.108	(0.957)	82610	2.00000	1.9783(A)
	35 1,2-Dichloroethane	62	11.197	11.206	(0.964)	41968	2.00000	2.0551
*	36 1,4-Difluorobenzene	114	11.610	11.609	(1.000)	2942240	50.0000	
	37 Trichloroethene	95	12.013	12.012	(1.035)	20382	2.00000	1.7102
$	38 Trifluorotoluene	146	12.358	12.367	(1.064)	14261	2.00000	1.2623(A)
	39 1,2-Dichloropropane	63	12.407	12.416	(1.069)	33962	2.00000	2.0146
	40 Dibromomethane	93	12.603	12.603	(1.086)	19265	2.00000	2.0614
	41 Bromodichloromethane	83	12.741	12.750	(1.097)	35917	2.00000	2.0086
	42 2-Chloroethylvinylether	63	13.085	13.085	(1.127)	4671	2.00000	2.0355
	43 Tetramethyl THF	43	13.312	13.311	(1.147)	84674	2.00000	2.0348(A)
	44 cis-1,3-Dichloropropene	75	13.361	13.360	(1.151)	45611	2.00000	1.9689
	45 4-Methyl-2-Pentanone	43	13.489	13.498	(1.162)	45586	2.00000	1.8717
$	46 Toluene-d8	98	13.695	13.694	(1.180)	3303834	50.0000	49.9003
	47 Toluene	92	13.784	13.783	(1.187)	47862	2.00000	1.8090
	48 trans-1,3-Dichloropropene	75	14.108	14.107	(1.215)	40673	2.00000	1.9093
	49 1,1,2-Trichloroethane	85	14.364	14.373	(1.237)	13675	2.00000	1.9370
	50 Tetrachloroethene	166	14.492	14.501	(0.928)	10735	2.00000	1.5932
	51 2-Hexanone	43	14.590	14.589	(0.934)	31655	2.00000	1.9062
	52 1,3-Dichloropropane	76	14.610	14.619	(0.936)	45656	2.00000	2.0206
	53 Dibromochloromethane	129	14.895	14.894	(0.954)	20753	2.00000	1.9151
	54 1,2-Dibromoethane	107	15.092	15.101	(1.300)	23629	2.00000	1.8965
*	55 Chlorobenzene-d5	117	15.613	15.612	(1.000)	2470484	50.0000	
	56 Chlorobenzene	112	15.652	15.652	(1.003)	50986	2.00000	1.8821
	57 Ethylbenzene	91	15.702	15.701	(1.006)	80176	2.00000	1.7516
	58 1,1,1,2-Tetrachloroethane	131	15.731	15.730	(1.008)	16726	2.00000	1.8369
	59 m,p-Xylenes	106	15.839	15.839	(1.014)	55527	4.00000	3.4979
	60 o-Xylene	106	16.341	16.340	(1.047)	29040	2.00000	1.8264
	61 Styrene	104	16.361	16.360	(1.048)	52127	2.00000	1.8120
	62 Bromoform	173	16.666	16.665	(1.067)	13004	2.00000	1.8153
	63 Isopropylbenzene	105	16.734	16.734	(0.913)	59500	2.00000	1.6369
	64 Cyclohexanone	55	16.980	16.980	(0.926)	63331	20.0000	24.6403(A)
$	65 Bromofluorobenzene	95	17.000	16.998	(0.927)	1397565	50.0000	52.4608
	66 1,1,2,2-Tetrachloroethane	83	17.138	17.137	(0.935)	33947	2.00000	1.9243
	67 Bromobenzene	156	17.207	17.206	(0.938)	16755	2.00000	1.8338
	68 Propylbenzene	91	17.207	17.206	(0.938)	77276	2.00000	1.6380
	69 1,2,3-Trichloropropane	110	17.226	17.235	(0.939)	7872	2.00000	1.9624
	70 2-Chlorotoluene	91	17.384	17.383	(0.948)	64733	2.00000	1.9261
	71 1,3,5-Trimethylbenzene	105	17.384	17.383	(0.948)	52538	2.00000	1.7906
	72 4-Chlorotoluene	91	17.502	17.511	(0.954)	61268	2.00000	1.9147
	73 tert-Butylbenzene	119	17.767	17.766	(0.969)	34288	2.00000	1.7478
	74 1,2,4-Trimethylbenzene	105	17.836	17.835	(0.973)	54844	2.00000	1.7988
	75 sec-Butylbenzene	105	18.023	18.022	(0.983)	54254	2.00000	1.5568
	76 para-Isopropyl Toluene	119	18.161	18.160	(0.990)	42352	2.00000	1.6724

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB111.D
Report Date: 02-Feb-2006 10:44

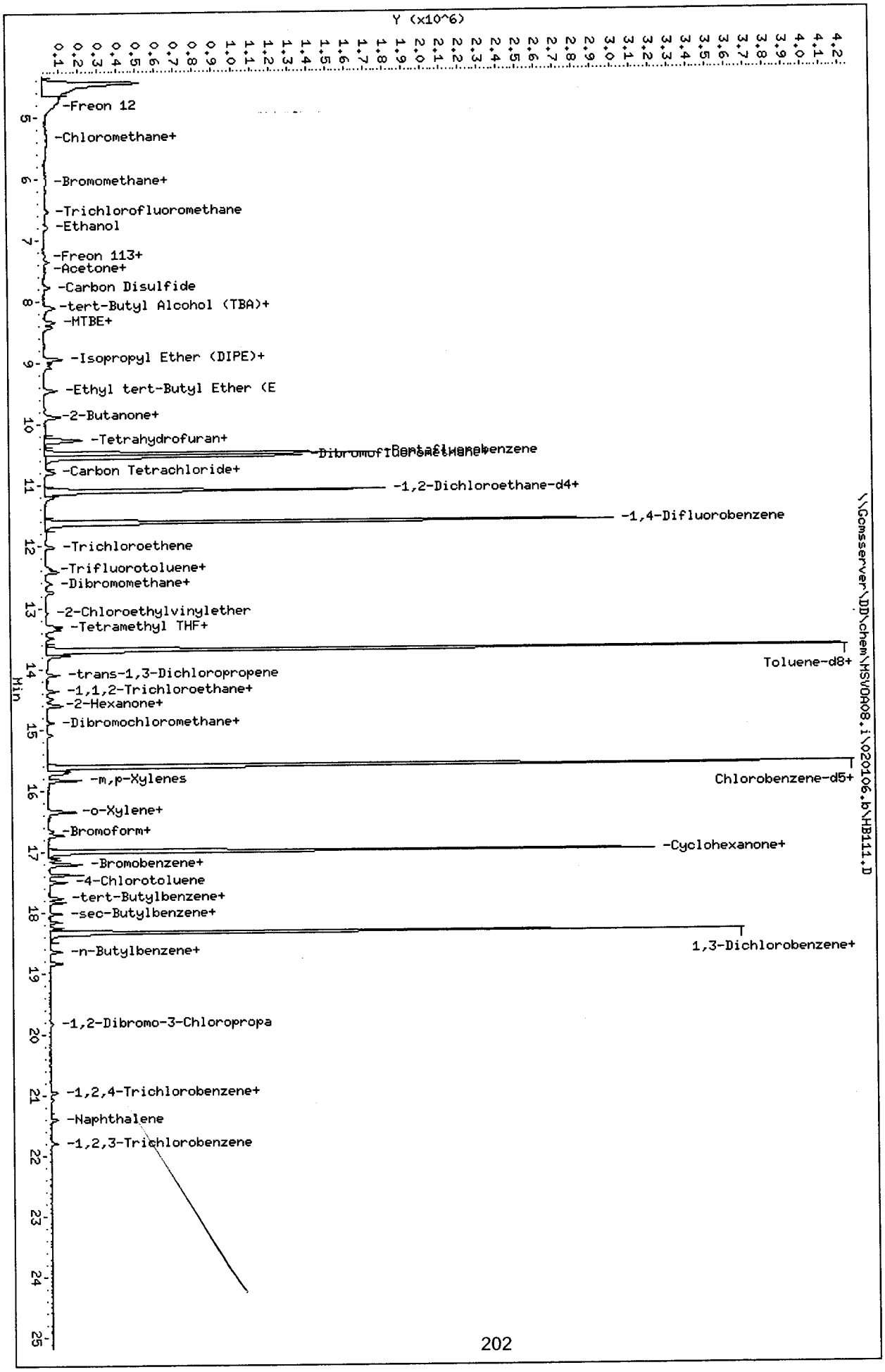
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.259	18.258	(0.996)	30004	2.00000	1.7909
* 78 1,4-Dichlorobenzene-d4	152	18.338	18.337	(1.000)	1021974	50.0000	
79 1,4-Dichlorobenzene	146	18.367	18.366	(1.002)	33450	2.00000	1.9208
80 n-Butylbenzene	91	18.643	18.642	(1.017)	42216	2.00000	1.4637
81 1,2-Dichlorobenzene	146	18.829	18.838	(1.027)	30170	2.00000	1.8749
82 1,2-Dibromo-3-Chloropropane	75	19.833	19.832	(1.082)	7174	2.00000	2.2047
83 1,2,4-Trichlorobenzene	180	20.954	20.963	(1.143)	14086	2.00000	1.7532
84 Hexachlorobutadiene	225	21.062	21.081	(1.149)	2780	2.00000	1.1194
85 Naphthalene	128	21.406	21.406	(1.167)	37770	2.00000	1.6985
86 1,2,3-Trichlorobenzene	180	21.790	21.799	(1.188)	14019	2.00000	1.7926

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB111.D
Date : 01-FEB-2006 16:34
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.002/500,S2552,0.002/500,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB112.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB112.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 17:10 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.002/200,S2552,0.002/200,
Misc Info : S2028,0.001/200,5 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 17:10 Cal File: HB112.D
Als bottle: 12 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.829	4.823	(0.461)	72310	5.00000	4.1360(M)
2 Chloromethane	50	5.320	5.324	(0.508)	126396	5.00000	5.2486(M)
3 Vinyl Chloride	62	5.409	5.413	(0.516)	86467	5.00000	4.8820(M)
4 Bromomethane	94	6.048	6.042	(0.577)	32829	5.00000	4.8968(M)
5 Chloroethane	64	6.196	6.190	(0.592)	49301	5.00000	4.7192(M)
6 Trichlorofluoromethane	101	6.530	6.534	(0.623)	62054	5.00000	4.8102
7 Ethanol	45	6.786	6.790	(0.648)	145747	500.000	517.1152(A)
8 Freon 113	101	7.248	7.252	(0.692)	38990	5.00000	4.0571
9 1,1-Dichloroethene	96	7.356	7.360	(0.702)	44525	5.00000	4.6252
10 Acetone	43	7.445	7.449	(0.711)	41137	5.00000	5.0922
11 Isopropanol	45	7.524	7.527	(0.718)	72789	50.0000	50.9866(A)
12 Carbon Disulfide	76	7.769	7.773	(0.742)	236016	5.00000	4.9117
13 tert-Butyl Alcohol (TBA)	59	8.074	8.077	(0.771)	84736	50.0000	52.6270(A)
14 Methylene Chloride	84	8.104	8.108	(0.774)	84786	5.00000	5.4450
15 MTBE	73	8.330	8.334	(0.795)	205424	5.00000	5.2883
16 trans-1,2-Dichloroethene	96	8.419	8.422	(0.804)	59488	5.00000	4.8970
17 Isopropyl Ether (DIPE)	45	8.930	8.934	(0.853)	361694	5.00000	5.4049(A)
18 Vinyl Acetate	43	9.009	9.003	(0.860)	238375	5.00000	5.4272
19 1,1-Dichloroethane	63	9.068	9.072	(0.866)	142604	5.00000	5.3299
20 Ethyl tert-Butyl Ether (ETBE)	59	9.442	9.445	(0.901)	234361	5.00000	5.3843(A)
21 2-Butanone	43	9.855	9.849	(0.941)	65691	5.00000	5.3693
22 2,2-Dichloropropane	77	9.864	9.868	(0.942)	80357	5.00000	5.1333

LW 2-2-06

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB112.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.884	9.888	(0.944)	65201	5.00000	4.8844
	24 Tetrahydrofuran	42	10.248	10.252	(0.978)	371226	50.0000	57.2476(A)
	25 Bromochloromethane	128	10.248	10.262	(0.978)	32071	5.00000	5.2827
	26 Chloroform	83	10.278	10.281	(0.981)	117410	5.00000	5.2890
*	27 Pentafluorobenzene	168	10.474	10.478	(1.000)	1336953	50.0000	
$	28 Dibromofluoromethane	113	10.523	10.527	(1.005)	1064538	50.0000	51.2542
	29 1,1,1-Trichloroethane	97	10.573	10.576	(1.009)	67278	5.00000	4.8145
	30 Carbon Tetrachloride	117	10.769	10.773	(0.928)	48086	5.00000	4.2778
	31 1,1-Dichloropropene	75	10.789	10.793	(0.930)	72725	5.00000	4.1734
$	32 1,2-Dichloroethane-d4	65	11.084	11.088	(0.955)	1559307	50.0000	53.7830
	33 Benzene	78	11.104	11.108	(0.957)	242554	5.00000	5.0795
	34 Methyl tert-Amyl Ether (TAME)	73	11.104	11.108	(0.957)	214610	5.00000	5.2965(A)
	35 1,2-Dichloroethane	62	11.202	11.206	(0.965)	106497	5.00000	5.3746
*	36 1,4-Difluorobenzene	114	11.605	11.609	(1.000)	2854933	50.0000	
	37 Trichloroethene	95	12.009	12.012	(1.035)	56093	5.00000	4.8508
$	38 Trifluorotoluene	146	12.363	12.367	(1.065)	46235	5.00000	3.7931(A)
	39 1,2-Dichloropropane	63	12.412	12.416	(1.069)	85540	5.00000	5.2295
	40 Dibromomethane	93	12.599	12.603	(1.086)	47260	5.00000	5.2116
	41 Bromodichloromethane	83	12.746	12.750	(1.098)	87679	5.00000	5.0534
	42 2-Chloroethylvinylether	63	13.081	13.085	(1.127)	16770	5.00000	4.5322
	43 Tetramethyl THF	43	13.307	13.311	(1.147)	215078	5.00000	5.3267(A)
	44 cis-1,3-Dichloropropene	75	13.356	13.360	(1.151)	115163	5.00000	5.1233
	45 4-Methyl-2-Pentanone	43	13.494	13.498	(1.163)	129555	5.00000	5.4821
$	46 Toluene-d8	98	13.691	13.694	(1.180)	3265445	50.0000	50.8287
	47 Toluene	92	13.789	13.783	(1.188)	121468	5.00000	4.7315
	48 trans-1,3-Dichloropropene	75	14.104	14.107	(1.215)	106343	5.00000	5.1449
	49 1,1,2-Trichloroethane	85	14.369	14.373	(1.238)	34296	5.00000	5.0066
	50 Tetrachloroethene	166	14.497	14.501	(0.929)	32345	5.00000	4.0438
	51 2-Hexanone	43	14.586	14.589	(0.934)	85120	5.00000	5.1888
	52 1,3-Dichloropropane	76	14.615	14.619	(0.936)	115338	5.00000	5.1673
	53 Dibromochloromethane	129	14.891	14.894	(0.954)	52749	5.00000	4.9275
	54 1,2-Dibromoethane	107	15.097	15.101	(1.301)	60496	5.00000	5.0041
*	55 Chlorobenzene-d5	117	15.609	15.612	(1.000)	2440509	50.0000	
	56 Chlorobenzene	112	15.648	15.652	(1.003)	128768	5.00000	4.8119
	57 Ethylbenzene	91	15.697	15.701	(1.006)	216155	5.00000	4.7803
	58 1,1,1,2-Tetrachloroethane	131	15.727	15.730	(1.008)	45608	5.00000	5.0703
	59 m,p-Xylenes	106	15.835	15.839	(1.014)	147830	10.0000	9.4271
	60 o-Xylene	106	16.336	16.340	(1.047)	74271	5.00000	4.7284
	61 Styrene	104	16.356	16.360	(1.048)	137538	5.00000	4.8397
	62 Bromoform	173	16.671	16.665	(1.068)	33320	5.00000	4.7086
	63 Isopropylbenzene	105	16.730	16.734	(0.913)	166411	5.00000	4.5189
	64 Cyclohexanone	55	16.976	16.980	(0.926)	117249	50.0000	45.0281(A)
$	65 Bromofluorobenzene	95	16.995	16.998	(0.927)	1397593	50.0000	51.7830
	66 1,1,2,2-Tetrachloroethane	83	17.133	17.137	(0.935)	92791	5.00000	5.1918
	67 Bromobenzene	156	17.202	17.206	(0.938)	45067	5.00000	4.8686
	68 Propylbenzene	91	17.202	17.206	(0.938)	229240	5.00000	4.7963
	69 1,2,3-Trichloropropane	110	17.231	17.235	(0.940)	21953	5.00000	5.4020
	70 2-Chlorotoluene	91	17.379	17.383	(0.948)	166084	5.00000	4.8778
	71 1,3,5-Trimethylbenzene	105	17.389	17.383	(0.948)	136039	5.00000	4.5764
	72 4-Chlorotoluene	91	17.507	17.511	(0.955)	158334	5.00000	4.8843
	73 tert-Butylbenzene	119	17.763	17.766	(0.969)	104163	5.00000	4.3407
	74 1,2,4-Trimethylbenzene	105	17.831	17.835	(0.973)	147628	5.00000	4.7794
	75 sec-Butylbenzene	105	18.018	18.022	(0.983)	167935	5.00000	4.0827
	76 para-Isopropyl Toluene	119	18.156	18.160	(0.990)	124877	5.00000	4.1857

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB112.D
Report Date: 02-Feb-2006 10:44

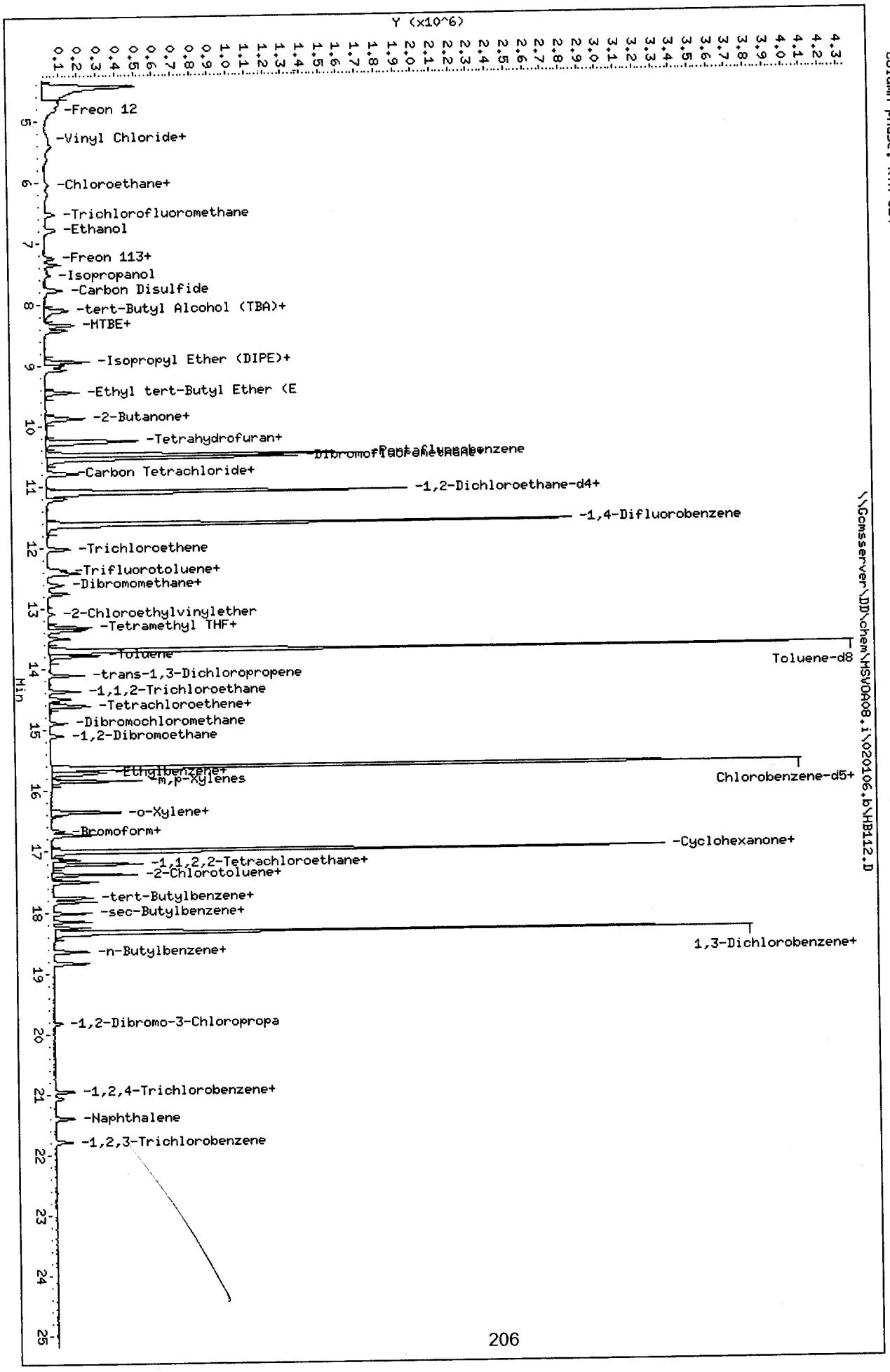
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.254	18.258	(0.996)	83366	5.00000	4.9118
* 78 1,4-Dichlorobenzene-d4	152	18.333	18.337	(1.000)	1035372	50.0000	
79 1,4-Dichlorobenzene	146	18.363	18.366	(1.002)	83847	5.00000	4.7526
80 n-Butylbenzene	91	18.648	18.642	(1.017)	133923	5.00000	4.1404
81 1,2-Dichlorobenzene	146	18.835	18.838	(1.027)	78989	5.00000	4.8452
82 1,2-Dibromo-3-Chloropropane	75	19.838	19.832	(1.082)	16393	5.00000	4.9727
83 1,2,4-Trichlorobenzene	180	20.959	20.963	(1.143)	38760	5.00000	4.7619
84 Hexachlorobutadiene	225	21.077	21.081	(1.150)	9989	5.00000	3.4088
85 Naphthalene	128	21.402	21.406	(1.167)	108748	5.00000	4.8273
86 1,2,3-Trichlorobenzene	180	21.795	21.799	(1.189)	37527	5.00000	4.7365

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB112.D
Date : 01-FEB-2006 17:10
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.002/200,S2552,0.002/200,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB113.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB113.D
Lab Smp Id:
Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 17:47
MS Autotune Date: 30-JAN-2006 09:15
Operator : LW
Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.002/100,S2552,0.002/100,
Misc Info : S2028,0.001/100,10 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target
Quant Type: ISTD
Cal Date : 01-FEB-2006 17:47
Cal File: HB113.D
Als bottle: 13
Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.816	4.823	(0.459)	180826	10.0000	10.2120
2 Chloromethane	50	5.327	5.324	(0.508)	263312	10.0000	10.5752
3 Vinyl Chloride	62	5.416	5.413	(0.517)	203819	10.0000	11.1300
4 Bromomethane	94	6.045	6.042	(0.577)	76870	10.0000	9.9974(M)
5 Chloroethane	64	6.193	6.190	(0.591)	119125	10.0000	11.0287(M)
6 Trichlorofluoromethane	101	6.527	6.534	(0.623)	153053	10.0000	11.4747
7 Ethanol	45	6.783	6.790	(0.647)	299859	1000.00	1028.9771(A)
8 Freon 113	101	7.245	7.252	(0.691)	117145	10.0000	10.3070
9 1,1-Dichloroethene	96	7.353	7.360	(0.702)	115590	10.0000	11.6130
10 Acetone	43	7.452	7.449	(0.711)	84028	10.0000	10.0600
11 Isopropanol	45	7.521	7.527	(0.718)	151004	100.000	102.3009(A)
12 Carbon Disulfide	76	7.766	7.773	(0.741)	562381	10.0000	11.3194
13 tert-Butyl Alcohol (TBA)	59	8.081	8.077	(0.771)	172489	100.000	103.6104(A)
14 Methylene Chloride	84	8.101	8.108	(0.773)	161314	10.0000	10.0196
15 MTBE	73	8.337	8.334	(0.795)	428965	10.0000	10.6804
16 trans-1,2-Dichloroethene	96	8.425	8.422	(0.804)	134649	10.0000	10.7204
17 Isopropyl Ether (DIPE)	45	8.937	8.934	(0.853)	756142	10.0000	10.9283(A)
18 Vinyl Acetate	43	9.006	9.003	(0.859)	527037	10.0000	11.6054
19 1,1-Dichloroethane	63	9.065	9.072	(0.865)	298414	10.0000	10.7871
20 Ethyl tert-Butyl Ether (ETBE)	59	9.438	9.445	(0.901)	485773	10.0000	10.7939(A)
21 2-Butanone	43	9.852	9.849	(0.940)	130789	10.0000	10.3392
22 2,2-Dichloropropane	77	9.871	9.868	(0.942)	189689	10.0000	11.7198

LW 2-2-06

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB113.D
Report Date: 02-Feb-2006 10:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 cis-1,2-Dichloroethene	96	9.881	9.888	(0.943)	146313	10.0000	10.6009
24 Tetrahydrofuran	42	10.255	10.252	(0.978)	738822	100.000	110.1944(A)
25 Bromochloromethane	128	10.255	10.262	(0.978)	64439	10.0000	10.2659
26 Chloroform	83	10.284	10.281	(0.981)	247936	10.0000	10.8021
* 27 Pentafluorobenzene	168	10.481	10.478	(1.000)	1382341	50.0000	
$ 28 Dibromofluoromethane	113	10.530	10.527	(1.005)	1104495	50.0000	51.4320
29 1,1,1-Trichloroethane	97	10.570	10.576	(1.008)	167345	10.0000	11.5824
30 Carbon Tetrachloride	117	10.776	10.773	(0.928)	128915	10.0000	10.6027
31 1,1-Dichloropropene	75	10.796	10.793	(0.930)	191938	10.0000	10.5803
$ 32 1,2-Dichloroethane-d4	65	11.091	11.088	(0.955)	1579783	50.0000	53.3235
33 Benzene	78	11.111	11.108	(0.957)	530418	10.0000	10.8703
34 Methyl tert-Amyl Ether (TAME)	73	11.111	11.108	(0.957)	450333	10.0000	10.8763(A)
35 1,2-Dichloroethane	62	11.199	11.206	(0.964)	223586	10.0000	11.0423
* 36 1,4-Difluorobenzene	114	11.612	11.609	(1.000)	2917347	50.0000	
37 Trichloroethene	95	12.015	12.012	(1.035)	129927	10.0000	10.9954
$ 38 Trifluorotoluene	146	12.360	12.367	(1.064)	128498	10.0000	10.0045(A)
39 1,2-Dichloropropane	63	12.409	12.416	(1.069)	176741	10.0000	10.5740
40 Dibromomethane	93	12.596	12.603	(1.085)	98219	10.0000	10.5994
41 Bromodichloromethane	83	12.743	12.750	(1.097)	187752	10.0000	10.5896
42 2-Chloroethylvinylether	63	13.088	13.085	(1.127)	39304	10.0000	8.9005
43 Tetramethyl THF	43	13.304	13.311	(1.146)	447845	10.0000	10.8543(A)
44 cis-1,3-Dichloropropene	75	13.363	13.360	(1.151)	244787	10.0000	10.6570
45 4-Methyl-2-Pentanone	43	13.491	13.498	(1.162)	248439	10.0000	10.2877
$ 46 Toluene-d8	98	13.687	13.694	(1.179)	3281362	50.0000	49.9838
47 Toluene	92	13.786	13.783	(1.187)	274190	10.0000	10.4519
48 trans-1,3-Dichloropropene	75	14.101	14.107	(1.214)	228817	10.0000	10.8334
49 1,1,2-Trichloroethane	85	14.366	14.373	(1.237)	70490	10.0000	10.0702
50 Tetrachloroethene	166	14.494	14.501	(0.928)	87717	10.0000	10.0019
51 2-Hexanone	43	14.592	14.589	(0.934)	164363	10.0000	9.7319
52 1,3-Dichloropropane	76	14.612	14.619	(0.936)	242564	10.0000	10.5555
53 Dibromochloromethane	129	14.887	14.894	(0.953)	113265	10.0000	10.2770
54 1,2-Dibromoethane	107	15.094	15.101	(1.300)	129013	10.0000	10.4434
* 55 Chlorobenzene-d5	117	15.615	15.612	(1.000)	2512600	50.0000	
56 Chlorobenzene	112	15.655	15.652	(1.003)	284104	10.0000	10.3120
57 Ethylbenzene	91	15.704	15.701	(1.006)	501745	10.0000	10.7779
58 1,1,1,2-Tetrachloroethane	131	15.733	15.730	(1.008)	94829	10.0000	10.2399
59 m,p-Xylenes	106	15.842	15.839	(1.014)	347325	20.0000	21.5134
60 o-Xylene	106	16.343	16.340	(1.047)	168268	10.0000	10.4054
61 Styrene	104	16.363	16.360	(1.048)	304292	10.0000	10.4003
62 Bromoform	173	16.668	16.665	(1.067)	69845	10.0000	9.5870
63 Isopropylbenzene	105	16.737	16.734	(0.913)	431703	10.0000	11.3970
64 Cyclohexanone	55	16.973	16.980	(0.925)	249568	100.000	93.1786(A)
$ 65 Bromofluorobenzene	95	17.002	16.998	(0.927)	1412836	50.0000	50.8922
66 1,1,2,2-Tetrachloroethane	83	17.130	17.137	(0.934)	193356	10.0000	10.5178
67 Bromobenzene	156	17.209	17.206	(0.938)	96211	10.0000	10.1048
68 Propylbenzene	91	17.199	17.206	(0.938)	567003	10.0000	11.5335
69 1,2,3-Trichloropropane	110	17.228	17.235	(0.939)	44148	10.0000	10.5615
70 2-Chlorotoluene	91	17.386	17.383	(0.948)	379715	10.0000	10.8420
71 1,3,5-Trimethylbenzene	105	17.386	17.383	(0.948)	342147	10.0000	11.1901
72 4-Chlorotoluene	91	17.504	17.511	(0.954)	354595	10.0000	10.6344
73 tert-Butylbenzene	119	17.769	17.766	(0.969)	273503	10.0000	10.3814
74 1,2,4-Trimethylbenzene	105	17.838	17.835	(0.973)	343662	10.0000	10.8166
75 sec-Butylbenzene	105	18.015	18.022	(0.982)	464149	10.0000	10.4170
76 para-Isopropyl Toluene	119	18.163	18.160	(0.990)	329729	10.0000	10.1858

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB113.D
Report Date: 02-Feb-2006 10:44

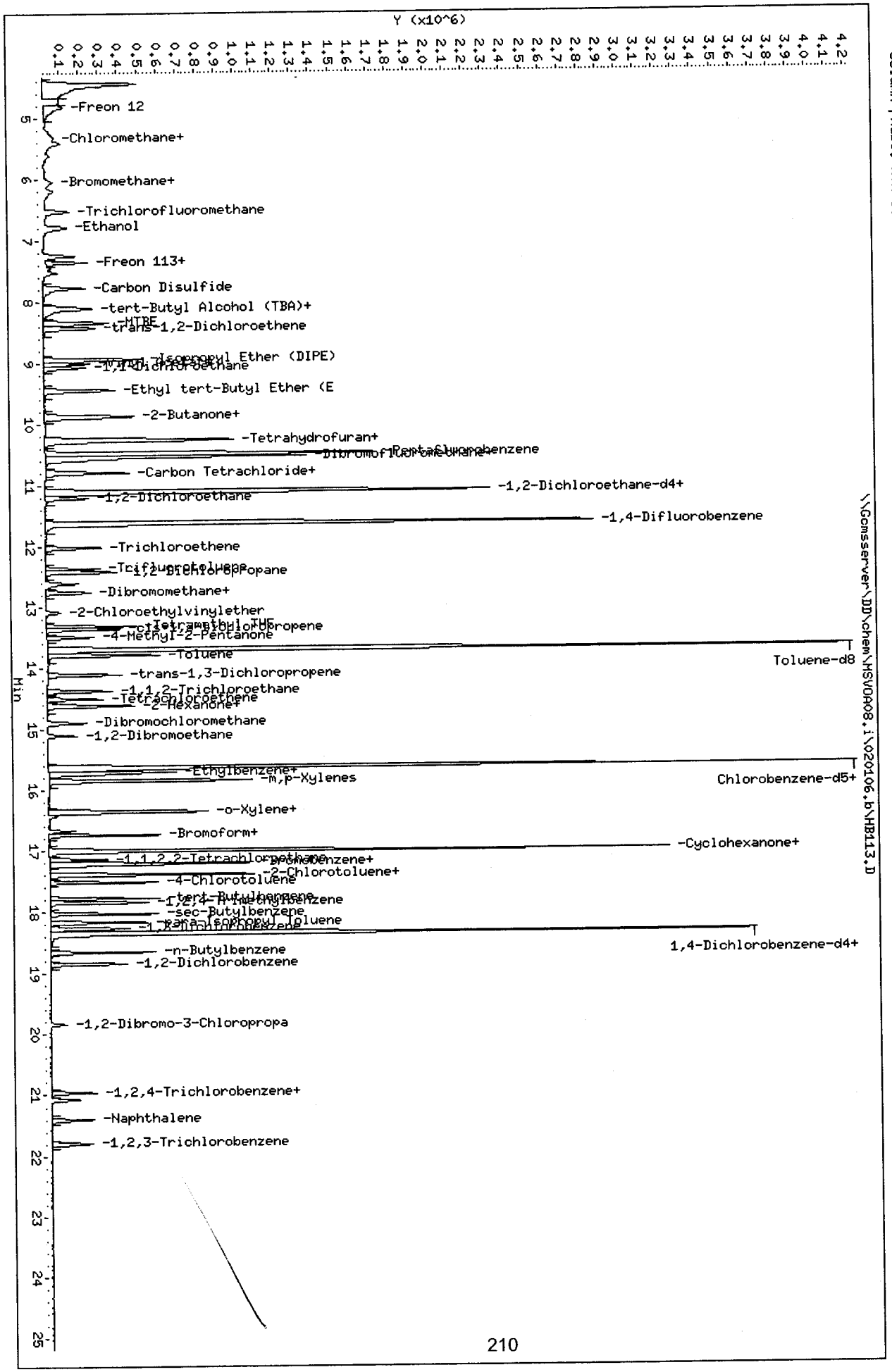
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.261	18.258	(0.996)	179816	10.0000	10.3000
* 78 1,4-Dichlorobenzene-d4	152	18.340	18.337	(1.000)	1064985	50.0000	
79 1,4-Dichlorobenzene	146	18.369	18.366	(1.002)	194789	10.0000	10.7340
80 n-Butylbenzene	91	18.645	18.642	(1.017)	367932	10.0000	10.7117
81 1,2-Dichlorobenzene	146	18.841	18.838	(1.027)	176845	10.0000	10.5462
82 1,2-Dibromo-3-Chloropropane	75	19.825	19.832	(1.081)	34463	10.0000	10.1635
83 1,2,4-Trichlorobenzene	180	20.956	20.963	(1.143)	88343	10.0000	10.5517
84 Hexachlorobutadiene	225	21.074	21.081	(1.149)	31699	10.0000	10.0570
85 Naphthalene	128	21.399	21.406	(1.167)	243792	10.0000	10.5210
86 1,2,3-Trichlorobenzene	180	21.792	21.799	(1.188)	85507	10.0000	10.4923

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB113.D
Date : 01-FEB-2006 17:47
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.002/100,S2552,0.002/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB114.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB114.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 18:24 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.004/100,S2552,0.004/100,
Misc Info : S2028,0.002/100,20 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 18:24 Cal File: HB114.D
Als bottle: 14 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.823	4.823	(0.460)	370534	20.0000	21.4500
2 Chloromethane	50	5.314	5.324	(0.507)	499856	20.0000	20.4252
3 Vinyl Chloride	62	5.413	5.413	(0.517)	391868	20.0000	21.7719
4 Bromomethane	94	6.042	6.042	(0.577)	153992	20.0000	19.3350(M)
5 Chloroethane	64	6.200	6.190	(0.592)	225120	20.0000	21.2051(M)
6 Trichlorofluoromethane	101	6.524	6.534	(0.623)	302651	20.0000	23.0859
7 Ethanol	45	6.790	6.790	(0.648)	600749	2000.00	2097.4218(A)
8 Freon 113	101	7.242	7.252	(0.691)	236536	20.0000	20.3542
9 1,1-Dichloroethene	96	7.350	7.360	(0.702)	219803	20.0000	22.4680
10 Acetone	43	7.449	7.449	(0.711)	166976	20.0000	20.3392
11 Isopropanol	45	7.518	7.527	(0.717)	300282	200.000	206.9782(A)
12 Carbon Disulfide	76	7.764	7.773	(0.741)	1101938	20.0000	22.5659
13 tert-Butyl Alcohol (TBA)	59	8.078	8.077	(0.771)	338059	200.000	206.6040(A)
14 Methylene Chloride	84	8.108	8.108	(0.774)	311554	20.0000	19.6886
15 MTBE	73	8.334	8.334	(0.795)	824285	20.0000	20.8808
16 trans-1,2-Dichloroethene	96	8.423	8.422	(0.804)	258273	20.0000	20.9215
17 Isopropyl Ether (DIPE)	45	8.934	8.934	(0.853)	1437448	20.0000	21.1371(A)
18 Vinyl Acetate	43	9.003	9.003	(0.859)	1026604	20.0000	22.9999
19 1,1-Dichloroethane	63	9.062	9.072	(0.865)	565678	20.0000	20.8047
20 Ethyl tert-Butyl Ether (ETBE)	59	9.436	9.445	(0.901)	935339	20.0000	21.1456(A)
21 2-Butanone	43	9.849	9.849	(0.940)	251185	20.0000	20.2029
22 2,2-Dichloropropane	77	9.868	9.868	(0.942)	356072	20.0000	22.3832

LW 2-2-06

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB114.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.888	9.888	(0.944)	280591	20.0000	20.6842
	24 Tetrahydrofuran	42	10.252	10.252	(0.978)	1432475	200.000	217.3758(A)
	25 Bromochloromethane	128	10.252	10.262	(0.978)	129463	20.0000	20.9846
	26 Chloroform	83	10.281	10.281	(0.981)	480058	20.0000	21.2798
*	27 Pentafluorobenzene	168	10.478	10.478	(1.000)	1358661	50.0000	
$	28 Dibromofluoromethane	113	10.527	10.527	(1.005)	1067532	50.0000	50.5771
	29 1,1,1-Trichloroethane	97	10.577	10.576	(1.009)	320404	20.0000	22.5626
	30 Carbon Tetrachloride	117	10.773	10.773	(0.928)	247688	20.0000	19.9125
	31 1,1-Dichloropropene	75	10.793	10.793	(0.930)	370978	20.0000	20.2228
$	32 1,2-Dichloroethane-d4	65	11.088	11.088	(0.955)	1503527	50.0000	50.4739
	33 Benzene	78	11.108	11.108	(0.957)	1009727	20.0000	20.5809
	34 Methyl tert-Amyl Ether (TAME)	73	11.108	11.108	(0.957)	859185	20.0000	20.6381(A)
	35 1,2-Dichloroethane	62	11.196	11.206	(0.964)	422372	20.0000	20.7466
*	36 1,4-Difluorobenzene	114	11.609	11.609	(1.000)	2933280	50.0000	
	37 Trichloroethene	95	12.013	12.012	(1.035)	253014	20.0000	21.2957
$	38 Trifluorotoluene	146	12.357	12.367	(1.064)	257930	20.0000	19.7920(A)
	39 1,2-Dichloropropane	63	12.406	12.416	(1.069)	333500	20.0000	19.8441
	40 Dibromomethane	93	12.603	12.603	(1.086)	190970	20.0000	20.4969
	41 Bromodichloromethane	83	12.750	12.750	(1.098)	368427	20.0000	20.6672
	42 2-Chloroethylvinylether	63	13.085	13.085	(1.127)	102600	20.0000	20.8651
	43 Tetramethyl THF	43	13.311	13.311	(1.147)	884792	20.0000	21.3281(A)
	44 cis-1,3-Dichloropropene	75	13.360	13.360	(1.151)	479085	20.0000	20.7442
	45 4-Methyl-2-Pentanone	43	13.488	13.498	(1.162)	510252	20.0000	21.0145
$	46 Toluene-d8	98	13.694	13.694	(1.180)	3308192	50.0000	50.1187
	47 Toluene	92	13.783	13.783	(1.187)	562374	20.0000	21.3209
	48 trans-1,3-Dichloropropene	75	14.108	14.107	(1.215)	436119	20.0000	20.5361
	49 1,1,2-Trichloroethane	85	14.373	14.373	(1.238)	142090	20.0000	20.1888
	50 Tetrachloroethene	166	14.501	14.501	(0.929)	170143	20.0000	19.0015
	51 2-Hexanone	43	14.590	14.589	(0.934)	356790	20.0000	21.0969
	52 1,3-Dichloropropane	76	14.609	14.619	(0.936)	473653	20.0000	20.5838
	53 Dibromochloromethane	129	14.894	14.894	(0.954)	226745	20.0000	20.5457
	54 1,2-Dibromoethane	107	15.091	15.101	(1.300)	253136	20.0000	20.3797
*	55 Chlorobenzene-d5	117	15.612	15.612	(1.000)	2516018	50.0000	
	56 Chlorobenzene	112	15.652	15.652	(1.003)	573431	20.0000	20.7854
	57 Ethylbenzene	91	15.701	15.701	(1.006)	1005539	20.0000	21.5705
	58 1,1,1,2-Tetrachloroethane	131	15.730	15.730	(1.008)	190801	20.0000	20.5752
	59 m,p-Xylenes	106	15.839	15.839	(1.014)	710246	40.0000	43.9330
	60 o-Xylene	106	16.340	16.340	(1.047)	341185	20.0000	21.0697
	61 Styrene	104	16.360	16.360	(1.048)	622828	20.0000	21.2585
	62 Bromoform	173	16.665	16.665	(1.067)	142667	20.0000	19.5560
	63 Isopropylbenzene	105	16.734	16.734	(0.913)	865358	20.0000	22.2402
	64 Cyclohexanone	55	16.980	16.980	(0.926)	491556	200.000	178.6641(A)
$	65 Bromofluorobenzene	95	16.999	16.998	(0.927)	1421964	50.0000	49.8637
	66 1,1,2,2-Tetrachloroethane	83	17.137	17.137	(0.935)	392374	20.0000	20.7782
	67 Bromobenzene	156	17.206	17.206	(0.938)	200292	20.0000	20.4789
	68 Propylbenzene	91	17.206	17.206	(0.938)	1160802	20.0000	22.9864
	69 1,2,3-Trichloropropane	110	17.225	17.235	(0.939)	90271	20.0000	21.0233
	70 2-Chlorotoluene	91	17.383	17.383	(0.948)	770050	20.0000	21.4046
	71 1,3,5-Trimethylbenzene	105	17.383	17.383	(0.948)	696538	20.0000	22.1770
	72 4-Chlorotoluene	91	17.511	17.511	(0.955)	707232	20.0000	20.6482
	73 tert-Butylbenzene	119	17.766	17.766	(0.969)	544555	20.0000	19.6995
	74 1,2,4-Trimethylbenzene	105	17.835	17.835	(0.973)	696802	20.0000	21.3503
	75 sec-Butylbenzene	105	18.022	18.022	(0.983)	945752	20.0000	20.3408
	76 para-Isopropyl Toluene	119	18.160	18.160	(0.990)	681102	20.0000	20.1221

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB114.D
Report Date: 02-Feb-2006 10:44

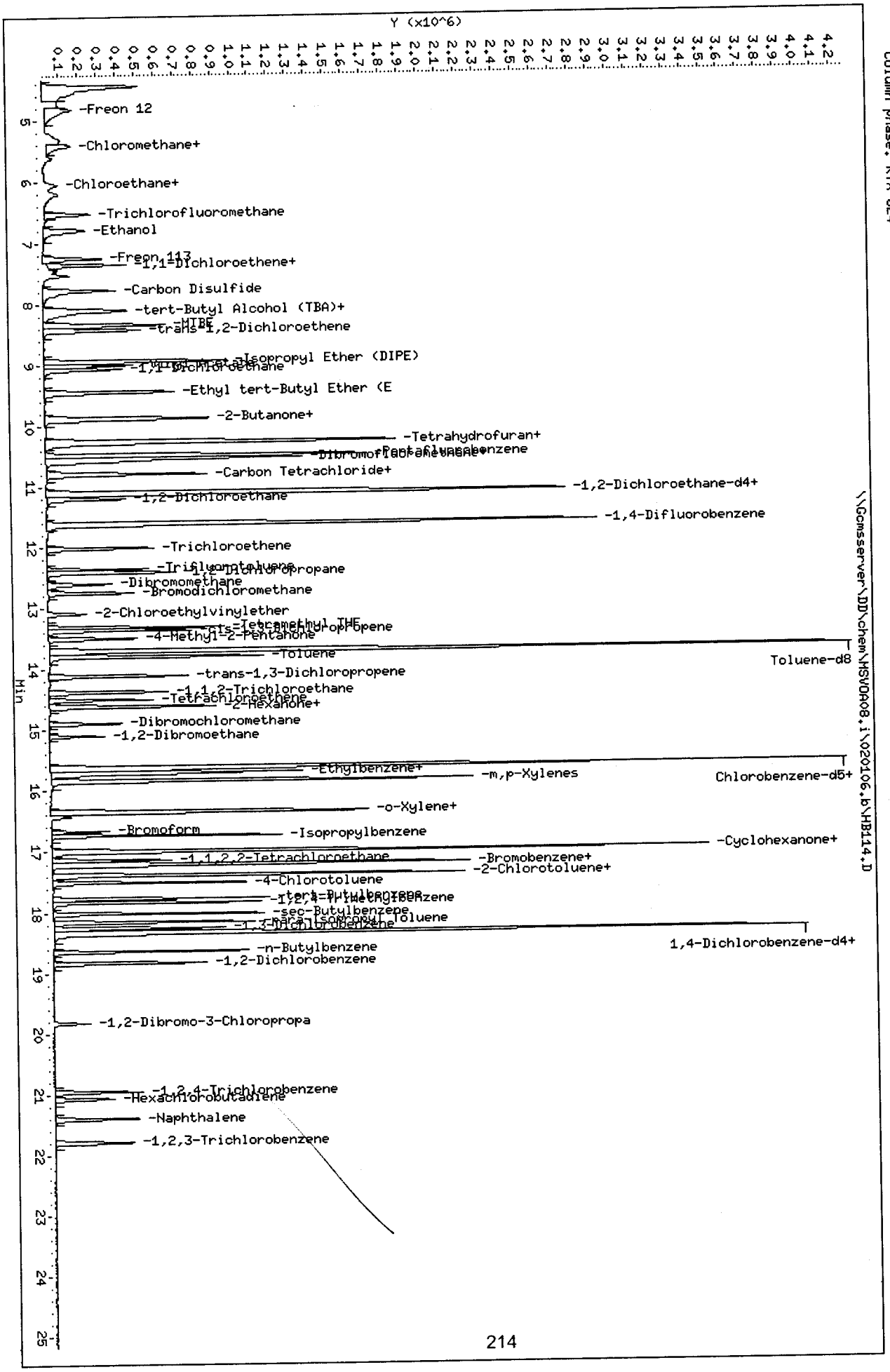
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.258	18.258	(0.996)	372191	20.0000	20.7545
* 78 1,4-Dichlorobenzene-d4	152	18.337	18.337	(1.000)	1093973	50.0000	
79 1,4-Dichlorobenzene	146	18.366	18.366	(1.002)	382797	20.0000	20.5355
80 n-Butylbenzene	91	18.642	18.642	(1.017)	719751	20.0000	20.2111
81 1,2-Dichlorobenzene	146	18.839	18.838	(1.027)	355931	20.0000	20.6637
82 1,2-Dibromo-3-Chloropropane	75	19.832	19.832	(1.082)	70163	20.0000	20.1436
83 1,2,4-Trichlorobenzene	180	20.963	20.963	(1.143)	181185	20.0000	21.0675
84 Hexachlorobutadiene	225	21.071	21.081	(1.149)	65458	20.0000	19.9946
85 Naphthalene	128	21.406	21.406	(1.167)	498087	20.0000	20.9256
86 1,2,3-Trichlorobenzene	180	21.799	21.799	(1.189)	177834	20.0000	21.2433

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB114.D
Date : 01-FEB-2006 18:24
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.004/100,S2552,0.004/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB115.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB115.D
Lab Smp Id:
Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 19:01
MS Autotune Date: 30-JAN-2006 09:15
Operator : LW
Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.01/100,S2552,0.01/100,
Misc Info : S2028,0.005/100,50 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target
Quant Type: ISTD
Cal Date : 01-FEB-2006 19:01
Cal File: HB115.D
Als bottle: 15
Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.823	4.823	(0.460)	930523	50.0000	52.4696
2 Chloromethane	50	5.325	5.324	(0.508)	1175821	50.0000	46.6114
3 Vinyl Chloride	62	5.413	5.413	(0.517)	980764	50.0000	52.8628
4 Bromomethane	94	6.043	6.042	(0.577)	441750	50.0000	50.5342
5 Chloroethane	64	6.190	6.190	(0.591)	546119	50.0000	49.9047
6 Trichlorofluoromethane	101	6.535	6.534	(0.624)	739563	50.0000	54.7278
7 Ethanol	45	6.790	6.790	(0.648)	1539156	5000.00	5213.1913(A)
8 Freon 113	101	7.243	7.252	(0.691)	632279	50.0000	51.5437
9 1,1-Dichloroethene	96	7.351	7.360	(0.702)	576376	50.0000	57.1565
10 Acetone	43	7.449	7.449	(0.711)	450956	50.0000	53.2895
11 Isopropanol	45	7.518	7.527	(0.717)	758858	500.000	507.4394(A)
12 Carbon Disulfide	76	7.774	7.773	(0.742)	2780929	50.0000	55.2478
13 tert-Butyl Alcohol (TBA)	59	8.079	8.077	(0.771)	837835	500.000	496.7445(A)
14 Methylene Chloride	84	8.108	8.108	(0.774)	759445	50.0000	46.5594
15 MTBE	73	8.335	8.334	(0.795)	2039223	50.0000	50.1145
16 trans-1,2-Dichloroethene	96	8.423	8.422	(0.804)	661330	50.0000	51.9709
17 Isopropyl Ether (DIPE)	45	8.935	8.934	(0.853)	3499392	50.0000	49.9200(A)
18 Vinyl Acetate	43	9.003	9.003	(0.859)	2261476	50.0000	49.1524
19 1,1-Dichloroethane	63	9.062	9.072	(0.865)	1438888	50.0000	51.3391
20 Ethyl tert-Butyl Ether (ETBE)	59	9.436	9.445	(0.901)	2275451	50.0000	49.9054(A)
21 2-Butanone	43	9.849	9.849	(0.940)	643547	50.0000	50.2144
22 2,2-Dichloropropane	77	9.869	9.868	(0.942)	890150	50.0000	54.2845

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB115.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.889	9.888	(0.944)	713135	50.0000	50.9994
	24 Tetrahydrofuran	42	10.243	10.252	(0.977)	3278732	500.000	482.6789(A)
	25 Bromochloromethane	128	10.253	10.262	(0.978)	328166	50.0000	51.6033
	26 Chloroform	83	10.282	10.281	(0.981)	1172293	50.0000	50.4126
*	27 Pentafluorobenzene	168	10.479	10.478	(1.000)	1400499	50.0000	
$	28 Dibromofluoromethane	113	10.528	10.527	(1.005)	1064198	50.0000	48.9130
	29 1,1,1-Trichloroethane	97	10.577	10.576	(1.009)	808443	50.0000	55.2293
	30 Carbon Tetrachloride	117	10.774	10.773	(0.928)	651188	50.0000	51.5380
	31 1,1-Dichloropropene	75	10.794	10.793	(0.930)	965766	50.0000	52.2504
$	32 1,2-Dichloroethane-d4	65	11.089	11.088	(0.955)	1423605	50.0000	47.6134
	33 Benzene	78	11.108	11.108	(0.957)	2499318	50.0000	50.7535
	34 Methyl tert-Amyl Ether (TAME)	73	11.108	11.108	(0.957)	2075934	50.0000	49.6800(A)
	35 1,2-Dichloroethane	62	11.197	11.206	(0.964)	1021991	50.0000	50.0131
*	36 1,4-Difluorobenzene	114	11.610	11.609	(1.000)	2944215	50.0000	
	37 Trichloroethene	95	12.013	12.012	(1.035)	659004	50.0000	55.2611
$	38 Trifluorotoluene	146	12.357	12.367	(1.064)	700214	50.0000	53.2214(A)
	39 1,2-Dichloropropane	63	12.416	12.416	(1.069)	859352	50.0000	50.9438
	40 Dibromomethane	93	12.603	12.603	(1.086)	474736	50.0000	50.7644
	41 Bromodichloromethane	83	12.751	12.750	(1.098)	903105	50.0000	50.4723
	42 2-Chloroethylvinylether	63	13.085	13.085	(1.127)	284057	50.0000	51.8316
	43 Tetramethyl THF	43	13.311	13.311	(1.147)	2049600	50.0000	49.2226(A)
	44 cis-1,3-Dichloropropene	75	13.361	13.360	(1.151)	1163617	50.0000	50.1970
	45 4-Methyl-2-Pentanone	43	13.489	13.498	(1.162)	1204172	50.0000	49.4092
$	46 Toluene-d8	98	13.695	13.694	(1.180)	3305867	50.0000	49.8975
	47 Toluene	92	13.784	13.783	(1.187)	1434889	50.0000	54.1980
	48 trans-1,3-Dichloropropene	75	14.108	14.107	(1.215)	1091556	50.0000	51.2087
	49 1,1,2-Trichloroethane	85	14.364	14.373	(1.237)	359269	50.0000	50.8572
	50 Tetrachloroethene	166	14.502	14.501	(0.929)	478205	50.0000	52.9461
	51 2-Hexanone	43	14.590	14.589	(0.934)	890139	50.0000	52.8961
	52 1,3-Dichloropropane	76	14.610	14.619	(0.936)	1172514	50.0000	51.2085
	53 Dibromochloromethane	129	14.895	14.894	(0.954)	578799	50.0000	52.7071
	54 1,2-Dibromoethane	107	15.092	15.101	(1.300)	641776	50.0000	51.4770
*	55 Chlorobenzene-d5	117	15.613	15.612	(1.000)	2503542	50.0000	
	56 Chlorobenzene	112	15.652	15.652	(1.003)	1434281	50.0000	52.2481
	57 Ethylbenzene	91	15.702	15.701	(1.006)	2557589	50.0000	55.1381
	58 1,1,1,2-Tetrachloroethane	131	15.731	15.730	(1.008)	501249	50.0000	54.3221
	59 m,p-Xylenes	106	15.839	15.839	(1.014)	1835678	100.000	114.1138
	60 o-Xylene	106	16.341	16.340	(1.047)	900267	50.0000	55.8726
	61 Styrene	104	16.361	16.360	(1.048)	1590205	50.0000	54.5477
	62 Bromoform	173	16.665	16.665	(1.067)	376526	50.0000	51.8693
	63 Isopropylbenzene	105	16.734	16.734	(0.913)	2244024	50.0000	56.7747
	64 Cyclohexanone	55	16.980	16.980	(0.926)	1537428	500.000	550.1016(A)
$	65 Bromofluorobenzene	95	17.000	16.998	(0.927)	1419289	50.0000	48.9949
	66 1,1,2,2-Tetrachloroethane	83	17.138	17.137	(0.935)	952550	50.0000	49.6568
	67 Bromobenzene	156	17.206	17.206	(0.938)	523550	50.0000	52.6969
	68 Propylbenzene	91	17.206	17.206	(0.938)	2861439	50.0000	55.7803
	69 1,2,3-Trichloropropane	110	17.236	17.235	(0.940)	224342	50.0000	51.4338
	70 2-Chlorotoluene	91	17.383	17.383	(0.948)	1897470	50.0000	51.9216
	71 1,3,5-Trimethylbenzene	105	17.383	17.383	(0.948)	1800848	50.0000	56.4443
	72 4-Chlorotoluene	91	17.511	17.511	(0.955)	1806715	50.0000	51.9271
	73 tert-Butylbenzene	119	17.767	17.766	(0.969)	1468737	50.0000	51.5595
	74 1,2,4-Trimethylbenzene	105	17.836	17.835	(0.973)	1770801	50.0000	53.4133
	75 sec-Butylbenzene	105	18.023	18.022	(0.983)	2479542	50.0000	51.9800
	76 para-Isopropyl Toluene	119	18.160	18.160	(0.990)	1815332	50.0000	52.2167

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB115.D
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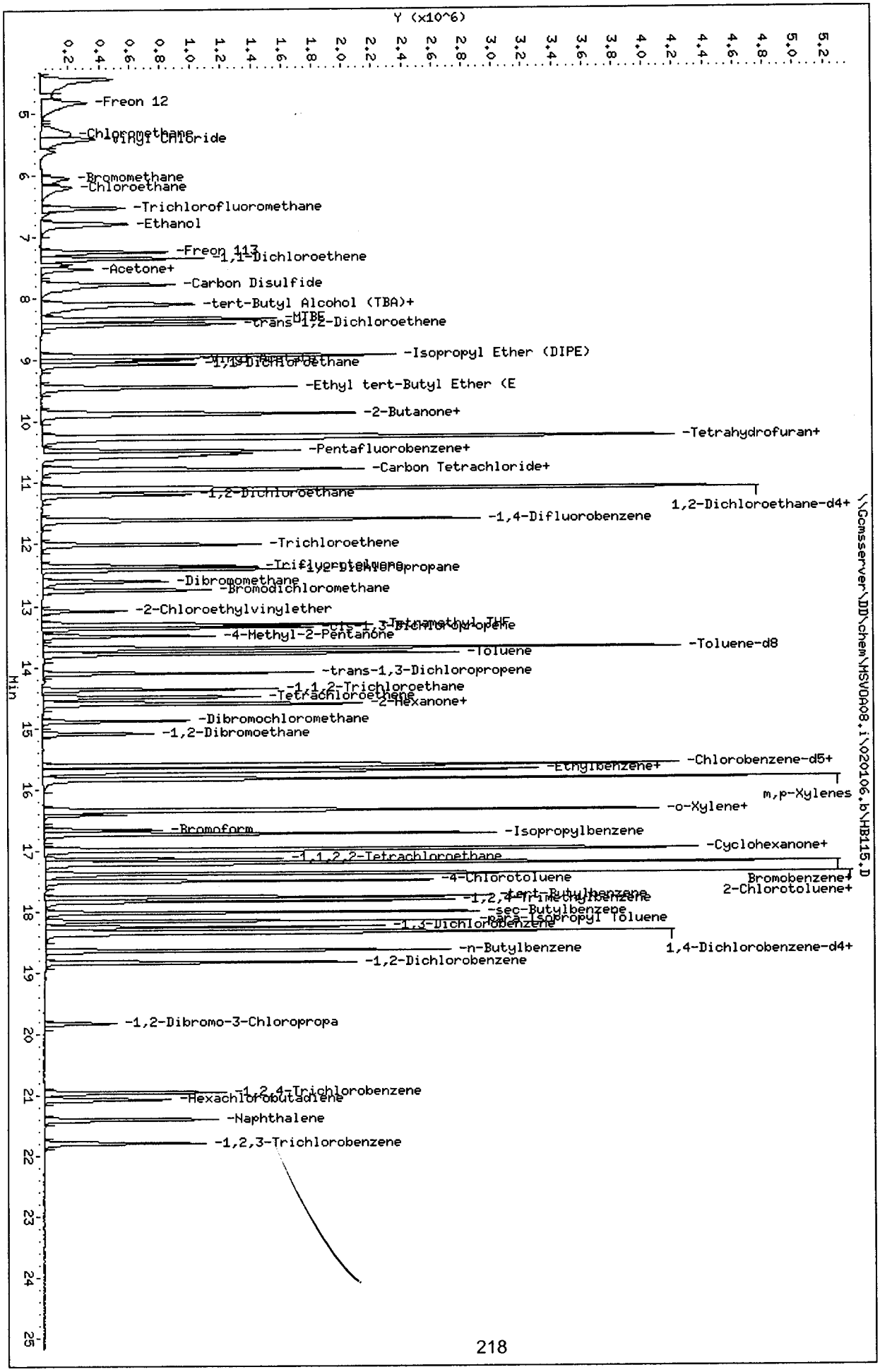
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.259	18.258	(0.996)	953114	50.0000	52.3211
* 78 1,4-Dichlorobenzene-d4	152	18.338	18.337	(1.000)	1111278	50.0000	
79 1,4-Dichlorobenzene	146	18.367	18.366	(1.002)	988301	50.0000	52.1928
80 n-Butylbenzene	91	18.642	18.642	(1.017)	1886532	50.0000	51.8217
81 1,2-Dichlorobenzene	146	18.839	18.838	(1.027)	914453	50.0000	52.2622
82 1,2-Dibromo-3-Chloropropane	75	19.833	19.832	(1.082)	172714	50.0000	48.8137
83 1,2,4-Trichlorobenzene	180	20.964	20.963	(1.143)	475177	50.0000	54.3914
84 Hexachlorobutadiene	225	21.072	21.081	(1.149)	181360	50.0000	54.1542
85 Naphthalene	128	21.406	21.406	(1.167)	1296655	50.0000	53.6269
86 1,2,3-Trichlorobenzene	180	21.800	21.799	(1.189)	453418	50.0000	53.3200

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB115.D
Date : 01-FEB-2006 19:01
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.01/100,S2552,0.01/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB116.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB116.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 19:39 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.015/100,S2552,0.015/100,
Misc Info : S2028,0.0075/100,75 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 19:39 Cal File: HB116.D
Als bottle: 16 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.828	4.823	(0.461)	1400535	75.0000	72.8279
2 Chloromethane	50	5.320	5.324	(0.507)	1696018	75.0000	61.9533
3 Vinyl Chloride	62	5.418	5.413	(0.517)	1450595	75.0000	72.0469
4 Bromomethane	94	6.047	6.042	(0.577)	735794	75.0000	74.8099
5 Chloroethane	64	6.185	6.190	(0.590)	795573	75.0000	66.9912
6 Trichlorofluoromethane	101	6.539	6.534	(0.624)	1134715	75.0000	77.3755
7 Ethanol	45	6.795	6.790	(0.648)	2241621	7500.00	6996.2725(A)
8 Freon 113	101	7.247	7.252	(0.691)	987506	75.0000	73.8389
9 1,1-Dichloroethene	96	7.356	7.360	(0.702)	884379	75.0000	80.8131
10 Acetone	43	7.454	7.449	(0.711)	644726	75.0000	70.2048
11 Isopropanol	45	7.523	7.527	(0.718)	1113298	750.000	685.9914(A)
12 Carbon Disulfide	76	7.779	7.773	(0.742)	4197601	75.0000	76.8440
13 tert-Butyl Alcohol (TBA)	59	8.074	8.077	(0.770)	1246291	750.000	680.8909(A)
14 Methylene Chloride	84	8.103	8.108	(0.773)	1151613	75.0000	65.0580
15 MTBE	73	8.339	8.334	(0.795)	3039519	75.0000	68.8315
16 trans-1,2-Dichloroethene	96	8.418	8.422	(0.803)	1041797	75.0000	75.4412
17 Isopropyl Ether (DIPE)	45	8.939	8.934	(0.853)	5059444	75.0000	66.5071(A)
18 Vinyl Acetate	43	9.008	9.003	(0.859)	3326798	75.0000	66.6289
19 1,1-Dichloroethane	63	9.067	9.072	(0.865)	2174728	75.0000	71.5006
20 Ethyl tert-Butyl Ether (ETBE)	59	9.441	9.445	(0.901)	3402434	75.0000	68.7628(A)
21 2-Butanone	43	9.844	9.849	(0.939)	952040	75.0000	68.4522
22 2,2-Dichloropropane	77	9.864	9.868	(0.941)	1329758	75.0000	74.7255

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB116.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.883	9.888	(0.943)	1109240	75.0000	73.0975
	24 Tetrahydrofuran	42	10.247	10.252	(0.977)	4579364	750.000	621.2138(A)
	25 Bromochloromethane	128	10.257	10.262	(0.978)	504685	75.0000	73.1287
	26 Chloroform	83	10.287	10.281	(0.981)	1765409	75.0000	69.9572
*	27 Pentafluorobenzene	168	10.483	10.478	(1.000)	1519845	50.0000	
$	28 Dibromofluoromethane	113	10.533	10.527	(1.005)	1139431	50.0000	48.2584
	29 1,1,1-Trichloroethane	97	10.572	10.576	(1.008)	1264688	75.0000	79.6135
	30 Carbon Tetrachloride	117	10.778	10.773	(0.928)	1004406	75.0000	73.9139
	31 1,1-Dichloropropene	75	10.788	10.793	(0.929)	1454989	75.0000	73.3085
$	32 1,2-Dichloroethane-d4	65	11.083	11.088	(0.954)	1470530	50.0000	45.8343
	33 Benzene	78	11.113	11.108	(0.957)	3844036	75.0000	72.7460
	34 Methyl tert-Amyl Ether (TAME)	73	11.103	11.108	(0.956)	3158348	75.0000	70.4377(A)
	35 1,2-Dichloroethane	62	11.201	11.206	(0.964)	1508905	75.0000	68.8139
*	36 1,4-Difluorobenzene	114	11.615	11.609	(1.000)	3159310	50.0000	
	37 Trichloroethene	95	12.008	12.012	(1.034)	1034412	75.0000	80.8356
$	38 Trifluorotoluene	146	12.362	12.367	(1.064)	1119754	75.0000	79.2261(A)
	39 1,2-Dichloropropane	63	12.411	12.416	(1.069)	1293477	75.0000	71.4590
	40 Dibromomethane	93	12.598	12.603	(1.085)	719256	75.0000	71.6750
	41 Bromodichloromethane	83	12.746	12.750	(1.097)	1367057	75.0000	71.1998
	42 2-Chloroethylvinylether	63	13.080	13.085	(1.126)	457977	75.0000	72.8472
	43 Tetramethyl THF	43	13.306	13.311	(1.146)	3014937	75.0000	67.4763(A)
	44 cis-1,3-Dichloropropene	75	13.365	13.360	(1.151)	1798807	75.0000	72.3153
	45 4-Methyl-2-Pentanone	43	13.493	13.498	(1.162)	1855196	75.0000	70.9392
$	46 Toluene-d8	98	13.690	13.694	(1.179)	3531505	50.0000	49.6742
	47 Toluene	92	13.788	13.783	(1.187)	2194158	75.0000	77.2343
	48 trans-1,3-Dichloropropene	75	14.103	14.107	(1.214)	1622425	75.0000	70.9316
	49 1,1,2-Trichloroethane	85	14.369	14.373	(1.237)	546467	75.0000	72.0898
	50 Tetrachloroethene	166	14.496	14.501	(0.928)	769850	75.0000	78.3924
	51 2-Hexanone	43	14.585	14.589	(0.934)	1302146	75.0000	71.3410
	52 1,3-Dichloropropane	76	14.614	14.619	(0.936)	1783997	75.0000	71.8343
	53 Dibromochloromethane	129	14.890	14.894	(0.953)	907798	75.0000	76.2157
	54 1,2-Dibromoethane	107	15.096	15.101	(1.300)	1013080	75.0000	75.7270
*	55 Chlorobenzene-d5	117	15.618	15.612	(1.000)	2715447	50.0000	
	56 Chlorobenzene	112	15.657	15.652	(1.003)	2235537	75.0000	75.0813
	57 Ethylbenzene	91	15.706	15.701	(1.006)	3794281	75.0000	75.4161
	58 1,1,1,2-Tetrachloroethane	131	15.736	15.730	(1.008)	772359	75.0000	77.1713
	59 m,p-Xylenes	106	15.844	15.839	(1.014)	2712176	150.000	155.4437
	60 o-Xylene	106	16.336	16.340	(1.046)	1361238	75.0000	77.8889
	61 Styrene	104	16.365	16.360	(1.048)	2393581	75.0000	75.6982
	62 Bromoform	173	16.660	16.665	(1.067)	585748	75.0000	74.3944
	63 Isopropylbenzene	105	16.729	16.734	(0.913)	3366424	75.0000	80.2459
	64 Cyclohexanone	55	16.975	16.980	(0.926)	2162872	750.000	729.1311(A)
$	65 Bromofluorobenzene	95	16.995	16.998	(0.927)	1465051	50.0000	47.6496
	66 1,1,2,2-Tetrachloroethane	83	17.132	17.137	(0.935)	1449341	75.0000	71.1850
	67 Bromobenzene	156	17.211	17.206	(0.939)	805064	75.0000	76.3456
	68 Propylbenzene	91	17.201	17.206	(0.938)	4185658	75.0000	76.8754
	69 1,2,3-Trichloropropane	110	17.231	17.235	(0.940)	340834	75.0000	73.6219
	70 2-Chlorotoluene	91	17.378	17.383	(0.948)	2708826	75.0000	69.8363
	71 1,3,5-Trimethylbenzene	105	17.388	17.383	(0.948)	2583990	75.0000	76.3064
	72 4-Chlorotoluene	91	17.506	17.511	(0.955)	2698191	75.0000	73.0641
	73 tert-Butylbenzene	119	17.772	17.766	(0.969)	2242786	75.0000	73.9811
	74 1,2,4-Trimethylbenzene	105	17.831	17.835	(0.973)	2689552	75.0000	76.4340
	75 sec-Butylbenzene	105	18.018	18.022	(0.983)	3728522	75.0000	73.5057
	76 para-Isopropyl Toluene	119	18.165	18.160	(0.991)	2714389	75.0000	73.4160

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB116.D
Report Date: 02-Feb-2006 10:44

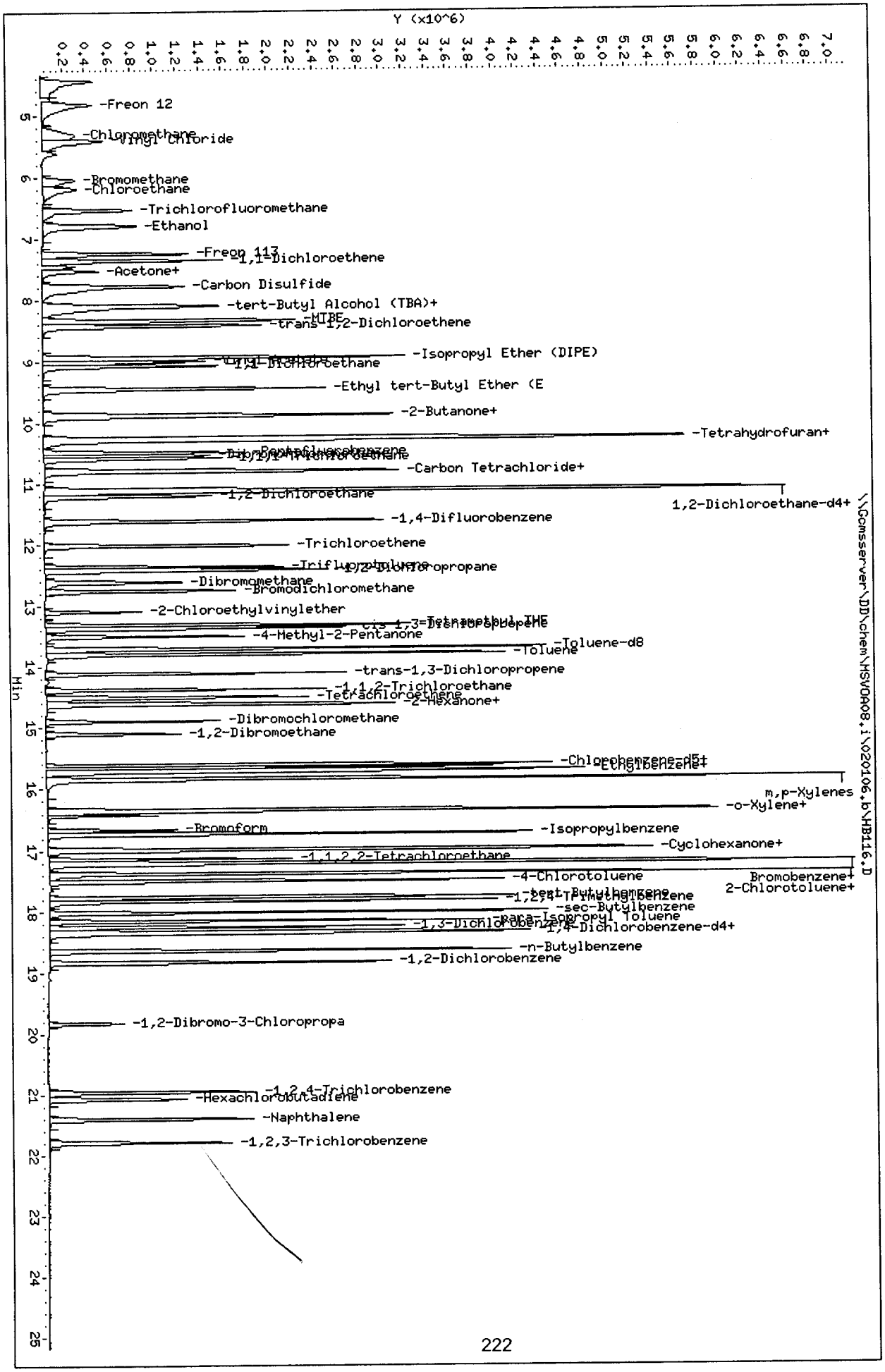
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.263	18.258	(0.996)	1483916	75.0000	76.7481
* 78 1,4-Dichlorobenzene-d4	152	18.332	18.337	(1.000)	1179495	50.0000	
79 1,4-Dichlorobenzene	146	18.362	18.366	(1.002)	1551083	75.0000	77.1761
80 n-Butylbenzene	91	18.647	18.642	(1.017)	2847787	75.0000	73.6147
81 1,2-Dichlorobenzene	146	18.834	18.838	(1.027)	1419114	75.0000	76.4136
82 1,2-Dibromo-3-Chloropropane	75	19.827	19.832	(1.082)	254496	75.0000	67.7675
83 1,2,4-Trichlorobenzene	180	20.958	20.963	(1.143)	748794	75.0000	80.7539
84 Hexachlorobutadiene	225	21.076	21.081	(1.150)	283764	75.0000	79.7270
85 Naphthalene	128	21.401	21.406	(1.167)	2016599	75.0000	78.5786
86 1,2,3-Trichlorobenzene	180	21.794	21.799	(1.189)	716069	75.0000	79.3365

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Gcmsserver\DD\chem\HSVOA08.i\020106.b\HB116.D
Date : 01-FEB-2006 19:39
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.015/100,S2552,0.015/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: HSVOA08.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB117.D
Report Date: 02-Feb-2006 10:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB117.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 01-FEB-2006 20:16 MS Autotune Date: 30-JAN-2006 09:15
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,S2349,0.02/100,S2552,0.02/100,
Misc Info : S2028,0.01/100,100 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\826GOX8.m
Meth Date : 02-Feb-2006 10:11 target Quant Type: ISTD
Cal Date : 01-FEB-2006 20:16 Cal File: HB117.D
Als bottle: 17 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.822	4.823	(0.460)	1776530	100.000	93.3652
2 Chloromethane	50	5.324	5.324	(0.508)	2132188	100.000	78.6820
3 Vinyl Chloride	62	5.412	5.413	(0.517)	1834927	100.000	92.0670
4 Bromomethane	94	6.042	6.042	(0.577)	968540	100.000	96.3000
5 Chloroethane	64	6.189	6.190	(0.591)	1004241	100.000	85.4263
6 Trichlorofluoromethane	101	6.533	6.534	(0.624)	1422621	100.000	97.9990
7 Ethanol	45	6.789	6.790	(0.648)	3055950	10000.0	9635.3289(A)
8 Freon 113	101	7.251	7.252	(0.692)	1108421	100.000	83.6229
9 1,1-Dichloroethene	96	7.360	7.360	(0.702)	1075675	100.000	99.2980
10 Acetone	43	7.448	7.449	(0.711)	869729	100.000	95.6734
11 Isopropanol	45	7.527	7.527	(0.718)	1537242	1000.00	956.8971(A)
12 Carbon Disulfide	76	7.773	7.773	(0.742)	5125387	100.000	94.7875
13 tert-Butyl Alcohol (TBA)	59	8.078	8.077	(0.771)	1706326	1000.00	941.7505(A)
14 Methylene Chloride	84	8.107	8.108	(0.774)	1518439	100.000	86.6578
15 MTBE	73	8.333	8.334	(0.795)	3966773	100.000	90.7477
16 trans-1,2-Dichloroethene	96	8.422	8.422	(0.804)	1307904	100.000	95.6792
17 Isopropyl Ether (DIPE)	45	8.933	8.934	(0.853)	6339864	100.000	84.1901(A)
18 Vinyl Acetate	43	9.002	9.003	(0.859)	3833128	100.000	77.5542
19 1,1-Dichloroethane	63	9.071	9.072	(0.866)	2674419	100.000	88.8280
20 Ethyl tert-Butyl Ether (ETBE)	59	9.445	9.445	(0.901)	4264998	100.000	87.0760(A)
21 2-Butanone	43	9.848	9.849	(0.940)	1237107	100.000	89.8577
22 2,2-Dichloropropane	77	9.868	9.868	(0.942)	1516752	100.000	86.1047

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB117.D
Report Date: 02-Feb-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.887	9.888	(0.944)	1417937	100.000	94.3951
	24 Tetrahydrofuran	42	10.251	10.252	(0.978)	5687343	1000.00	779.4013(A)
	25 Bromochloromethane	128	10.261	10.262	(0.979)	660911	100.000	96.7444
	26 Chloroform	83	10.281	10.281	(0.981)	2200936	100.000	88.1069
*	27 Pentafluorobenzene	168	10.478	10.478	(1.000)	1504470	50.0000	
$	28 Dibromofluoromethane	113	10.527	10.527	(1.005)	1119896	50.0000	47.9158
	29 1,1,1-Trichloroethane	97	10.576	10.576	(1.009)	1500750	100.000	95.4394
	30 Carbon Tetrachloride	117	10.773	10.773	(0.928)	1153194	100.000	86.8638
	31 1,1-Dichloropropene	75	10.792	10.793	(0.930)	1681016	100.000	86.7376
$	32 1,2-Dichloroethane-d4	65	11.087	11.088	(0.955)	1355257	50.0000	43.2708
	33 Benzene	78	11.107	11.108	(0.957)	4600256	100.000	89.1784
	34 Methyl tert-Amyl Ether (TAME)	73	11.107	11.108	(0.957)	3887743	100.000	88.8176(A)
	35 1,2-Dichloroethane	62	11.205	11.206	(0.965)	1905532	100.000	89.0197
*	36 1,4-Difluorobenzene	114	11.609	11.609	(1.000)	3084156	50.0000	
	37 Trichloroethene	95	12.012	12.012	(1.035)	1279140	100.000	102.3960
$	38 Trifluorotoluene	146	12.366	12.367	(1.065)	1307917	100.000	94.7586(A)
	39 1,2-Dichloropropane	63	12.415	12.416	(1.069)	1655848	100.000	93.7075
	40 Dibromomethane	93	12.602	12.603	(1.086)	954795	100.000	97.4654
	41 Bromodichloromethane	83	12.750	12.750	(1.098)	1803115	100.000	96.1992
	42 2-Chloroethylvinylether	63	13.084	13.085	(1.127)	689380	100.000	100.5472
	43 Tetramethyl THF	43	13.310	13.311	(1.147)	3819284	100.000	87.5611(A)
	44 cis-1,3-Dichloropropene	75	13.359	13.360	(1.151)	2306116	100.000	94.9692
	45 4-Methyl-2-Pentanone	43	13.497	13.498	(1.163)	2435972	100.000	95.4168
$	46 Toluene-d8	98	13.694	13.694	(1.180)	3416483	50.0000	49.2273
	47 Toluene	92	13.782	13.783	(1.187)	2718172	100.000	98.0111
	48 trans-1,3-Dichloropropene	75	14.107	14.107	(1.215)	2104101	100.000	94.2318
	49 1,1,2-Trichloroethane	85	14.373	14.373	(1.238)	710438	100.000	96.0046
	50 Tetrachloroethene	166	14.500	14.501	(0.929)	924385	100.000	95.8411
	51 2-Hexanone	43	14.589	14.589	(0.934)	1740655	100.000	97.1910
	52 1,3-Dichloropropane	76	14.618	14.619	(0.936)	2265471	100.000	92.9673
	53 Dibromochloromethane	129	14.894	14.894	(0.954)	1198396	100.000	102.5391
	54 1,2-Dibromoethane	107	15.100	15.101	(1.301)	1310382	100.000	100.3369
*	55 Chlorobenzene-d5	117	15.612	15.612	(1.000)	2664450	50.0000	
	56 Chlorobenzene	112	15.651	15.652	(1.003)	2818310	100.000	96.4656
	57 Ethylbenzene	91	15.700	15.701	(1.006)	4586806	100.000	92.9135
	58 1,1,1,2-Tetrachloroethane	131	15.730	15.730	(1.008)	1009760	100.000	102.8225
	59 m,p-Xylenes	106	15.838	15.839	(1.014)	3321356	200.000	194.0012
	60 o-Xylene	106	16.340	16.340	(1.047)	1691413	100.000	98.6336
	61 Styrene	104	16.359	16.360	(1.048)	3009471	100.000	96.9977
	62 Bromoform	173	16.664	16.665	(1.067)	788196	100.000	102.0228
	63 Isopropylbenzene	105	16.733	16.734	(0.913)	3996927	100.000	95.2507
	64 Cyclohexanone	55	16.979	16.980	(0.926)	2877926	1000.00	969.9339(A)
$	65 Bromofluorobenzene	95	16.999	16.998	(0.927)	1425849	50.0000	46.3626
	66 1,1,2,2-Tetrachloroethane	83	17.136	17.137	(0.935)	1873714	100.000	92.0045
	67 Bromobenzene	156	17.205	17.206	(0.938)	1043589	100.000	98.9398
	68 Propylbenzene	91	17.205	17.206	(0.938)	4830224	100.000	88.6908
	69 1,2,3-Trichloropropane	110	17.235	17.235	(0.940)	449564	100.000	97.0831
	70 2-Chlorotoluene	91	17.382	17.383	(0.948)	3301948	100.000	85.1056
	71 1,3,5-Trimethylbenzene	105	17.382	17.383	(0.948)	3133557	100.000	92.5114
	72 4-Chlorotoluene	91	17.510	17.511	(0.955)	3346354	100.000	90.5922
	73 tert-Butylbenzene	119	17.766	17.766	(0.969)	2651945	100.000	87.3731
	74 1,2,4-Trimethylbenzene	105	17.835	17.835	(0.973)	3332495	100.000	94.6812
	75 sec-Butylbenzene	105	18.022	18.022	(0.983)	4263217	100.000	83.9783
	76 para-Isopropyl Toluene	119	18.159	18.160	(0.990)	3273595	100.000	88.4445

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\020106.b\HB117.D
Report Date: 02-Feb-2006 10:44

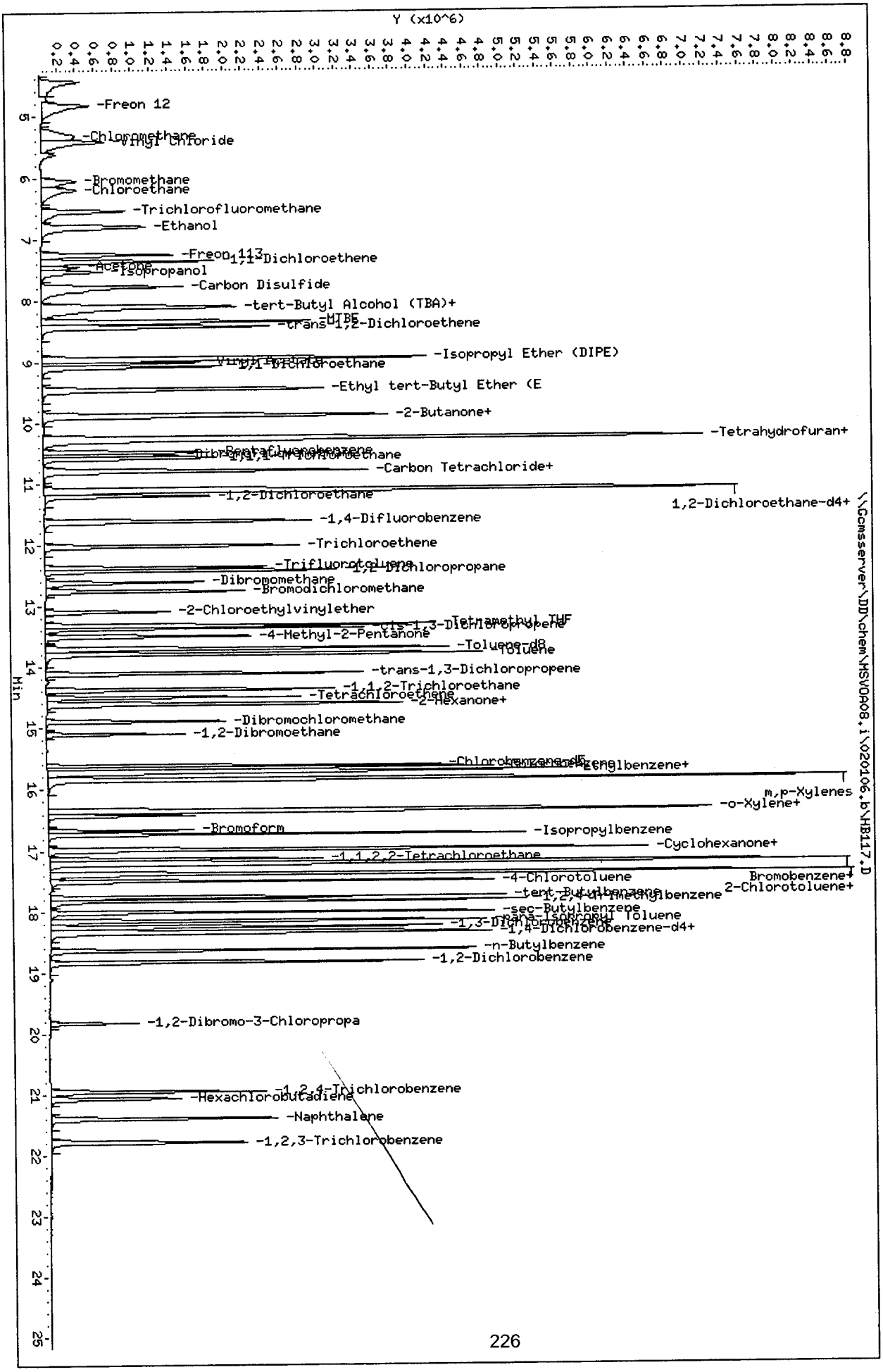
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.258	18.258	(0.996)	1929052	100.000	99.7448
* 78 1,4-Dichlorobenzene-d4	152	18.336	18.337	(1.000)	1179800	50.0000	
79 1,4-Dichlorobenzene	146	18.366	18.366	(1.002)	2006074	100.000	99.7890
80 n-Butylbenzene	91	18.641	18.642	(1.017)	3358910	100.000	86.7675
81 1,2-Dichlorobenzene	146	18.838	18.838	(1.027)	1867970	100.000	100.5567
82 1,2-Dibromo-3-Chloropropane	75	19.831	19.832	(1.082)	342563	100.000	91.1946
83 1,2,4-Trichlorobenzene	180	20.962	20.963	(1.143)	975697	100.000	105.1971
84 Hexachlorobutadiene	225	21.081	21.081	(1.150)	333494	100.000	93.6364
85 Naphthalene	128	21.405	21.406	(1.167)	2825061	100.000	110.0526
86 1,2,3-Trichlorobenzene	180	21.799	21.799	(1.189)	971703	100.000	107.6315

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Gcmsserver\DD\chem\HSVOA08.i\020106.b\HB117.D
Date : 01-FEB-2006 20:16
Client ID: DYNA P&T
Sample Info: ICAL,S2349,0.02/100,S2552,0.02/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: HSVOA08.i
Operator: LW
Column diameter: 0.25



CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 8260B

Inst : MSVOA10
Calnum : 496108554002
Units : ug/L

Name : 826GOX10
Date : 16-MAR-2006 14:04
X Axis : R

Type : WATER

Inj Vol: 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	jcg09	496108554009	0.25/0.5PPB	16-MAR-2006 14:04	S2783 (1000000X), S2844 (2000000X), S2410 (2000000X), S2707 (5000X)
L2	jcg10	496108554010	0.5/1PPB	16-MAR-2006 14:39	S2783 (500000X), S2844 (1000000X), S2410 (1000000X), S2707 (5000X)
L3	jcg11	496108554011	2PPB	16-MAR-2006 15:14	S2783 (250000X), S2844 (250000X), S2410 (500000X), S2707 (5000X)
L4	jcg12	496108554012	5PPB	16-MAR-2006 15:49	S2783 (100000X), S2844 (100000X), S2410 (200000X), S2707 (5000X)
L5	jcg13	496108554013	10PPB	16-MAR-2006 16:25	S2783 (50000X), S2844 (50000X), S2410 (100000X), S2707 (5000X)
L6	jcg14	496108554014	20PPB	16-MAR-2006 17:00	S2783 (25000X), S2844 (25000X), S2410 (50000X), S2707 (5000X)
L7	jcg15	496108554015	50PPB	16-MAR-2006 17:35	S2783 (10000X), S2844 (10000X), S2410 (20000X), S2707 (5000X)
L8	jcg16	496108554016	75PPB	16-MAR-2006 18:10	S2783 (6667X), S2844 (6667X), S2410 (13330X), S2707 (5000X)
L9	jcg17	496108554017	100PPB	16-MAR-2006 18:45	S2783 (5000X), S2844 (5000X), S2410 (10000X), S2707 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.2982	0.2558	0.3105	0.2678	0.2775	0.3142	0.3641	0.3676	AVRG		3.25796		0.3069	14	15	0.050	0.99	
Chloromethane		0.5036	0.5587	0.5523	0.5340	0.5668	0.5302	0.5531	0.5574	AVRG		1.83656		0.5445	4	15	0.10	0.99	
Vinyl Chloride	0.4845	0.4583	0.4672	0.4864	0.4388	0.4667	0.4610	0.5206	0.5167	AVRG		2.09284		0.4778	6	15	0.050	0.99	
Bromomethane		0.1644	0.1484	0.1483	0.1796	0.2221	0.2239	0.2505	0.2584	QUAD	1.01569	4.58174	-0.02989	0.1994	0.999	15	0.050	0.99	
Chloroethane		0.2814	0.3257	0.3021	0.2840	0.3036	0.2821	0.3051	0.3031	AVRG		3.35148		0.2984	5	15	0.050	0.99	
Trichlorofluoromethane		0.4180	0.4229	0.4453	0.3934	0.3967	0.4274	0.5063	0.5066	AVRG		2.27489		0.4396	10	15	0.050	0.99	
Acetone			0.1408	0.1363	0.1458	0.1251	0.1451	0.1529	0.1118	AVRG		7.30721		0.1369	10	15	0.050	0.99	
Freon 113		0.2637	0.1751	0.2510	0.2646	0.3127	0.2738	0.2645	0.3149	QUAD	-0.8890	4.24472	-0.03178	0.2650	0.996	15	0.050	0.99	
1,1-Dichloroethene		0.3078	0.2590	0.2827	0.2896	0.3073	0.2730	0.2839	0.2911	AVRG		3.48676		0.2868	6	15	0.050	0.99	
Methylene Chloride		0.5447	0.4762	0.4367	0.4361	0.4548	0.4159	0.4043	0.4053	AVRG		2.23839		0.4467	10	15	0.050	0.99	
Carbon Disulfide		1.3646	1.2798	1.3156	1.2962	1.4229	1.2698	1.2904	1.2961	AVRG		0.75935		1.3169	4	15	0.050	0.99	
MTBE		1.0224	1.1074	1.1176	1.1271	1.1468	1.1093	1.1029	1.0703	AVRG		0.90871		1.1005	3	15	0.050	0.99	
trans-1,2-Dichloroethene		0.3754	0.3712	0.3704	0.3618	0.3822	0.3432	0.3491	0.3487	AVRG		2.75682		0.3627	4	15	0.050	0.99	
Vinyl Acetate		1.4636	1.0641m	1.0312m	0.9836m	1.0977m	0.9901m	0.9087m	1.0665m	LINR	0.45840	0.98001		1.0757	0.991	15	0.050	0.99	
1,1-Dichloroethane		0.6387	0.7187	0.6761	0.6777	0.7161	0.6267	0.6261	0.6172	AVRG		1.51022		0.6622	6	15	0.10	0.99	
2-Butanone			0.1933	0.2021	0.2067	0.2163	0.2263	0.2269	0.1868	AVRG		4.79943		0.2084	8	15	0.050	0.99	
2,2-Dichloropropane		0.4352	0.4250	0.4073	0.4092	0.4260	0.3797	0.3828	0.3893	AVRG		2.45811		0.4068	5	15	0.050	0.99	
cis-1,2-Dichloroethene		0.3830	0.4548	0.4111	0.4045	0.4356	0.3897	0.3941	0.3849	AVRG		2.45577		0.4072	6	15	0.050	0.99	
Chloroform		0.5805	0.6606	0.6458	0.6284	0.6656	0.5919	0.5978	0.5903	AVRG		1.61261		0.6201	6	15	0.050	0.99	
Bromochloromethane		0.1605	0.2118	0.2023	0.2037	0.2170	0.2027	0.2029	0.1971	AVRG		5.00651		0.1997	9	15	0.050	0.99	
1,1,1-Trichloroethane		0.3863	0.4092	0.4006	0.4033	0.4381	0.3821	0.3950	0.4113	AVRG		2.47996		0.4032	4	15	0.050	0.99	
1,1-Dichloropropene		0.2281	0.2040	0.2114	0.2111	0.2282	0.1975	0.2015	0.2174	AVRG		4.70828		0.2124	5	15	0.050	0.99	
Carbon Tetrachloride		0.1412	0.1293	0.1438	0.1440	0.1601	0.1395	0.1439	0.1627	AVRG		6.86962		0.1456	7	15	0.050	0.99	
1,2-Dichloroethane		0.2221	0.2406	0.2405	0.2324	0.2409	0.2276	0.2283	0.2269	AVRG		4.30249		0.2324	3	15	0.050	0.99	

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496108554002

No 2 Clave, ICAL - 6000, ICV - HEBUT, + A.C. Bulin - F12S

3/17/06

3/17/06

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		0.6922	0.7259	0.7162	0.6915	0.7307	0.6459	0.6598	0.6582	AVRG		1.44916		0.6901	5	15	0.050	0.99	
Trichloroethene		0.1819	0.1754	0.1800	0.1707	0.1846	0.1610	0.1674	0.1677	AVRG		5.76141		0.1736	5	15	0.050	0.99	
1,2-Dichloropropane		0.1931	0.2210	0.2130	0.2139	0.2178	0.1990	0.1996	0.1991	AVRG		4.82949		0.2071	5	15	0.050	0.99	
Bromodichloromethane		0.2076	0.2278	0.2335	0.2330	0.2405	0.2257	0.2266	0.2289	AVRG		4.38714		0.2279	4	15	0.050	0.99	
Dibromomethane		0.1159	0.1296	0.1364	0.1399	0.1431	0.1356	0.1344	0.1343	AVRG		7.48190		0.1337	6	15	0.050	0.99	
2-Chloroethylvinylether						0.0014	0.0016	0.0016	0.0015	AVRG		649.900		0.0015	5	15	0.050	0.99	irf ***
4-Methyl-2-Pentanone			0.1948	0.2146	0.2208	0.2264	0.2429	0.2316	0.2091	AVRG		4.54532		0.2200	7	15	0.050	0.99	
Tetramethyl THF		0.3567	0.3989	0.4220	0.4184	0.4275	0.3872	0.4044	0.3898	AVRG		2.49615		0.4006	6	15	0.050	0.99	
cis-1,3-Dichloropropene		0.2710	0.3056	0.3016	0.3080	0.3155	0.2955	0.3011	0.2993	AVRG		3.33675		0.2997	4	15	0.050	0.99	
Toluene		0.3987	0.4174	0.3970	0.3926	0.4183	0.3729	0.3731	0.3809	AVRG		2.53912		0.3938	5	15	0.050	0.99	
trans-1,3-Dichloropropene		0.2166	0.2466	0.2536	0.2633	0.2745	0.2595	0.2628	0.2611	AVRG		3.92534		0.2548	7	15	0.050	0.99	
1,1,2-Trichloroethane		0.0910	0.0973	0.0999	0.0994	0.0999	0.0964	0.0979	0.0980	AVRG		10.2590		0.0975	3	15	0.050	0.99	
2-Hexanone			0.1253m	0.1420	0.1638	0.1660	0.1671	0.1686	0.1489	AVRG		6.47094		0.1545	11	15	0.050	0.99	
1,3-Dichloropropane		0.3024	0.3484	0.3546	0.3542	0.3531	0.3407	0.3359	0.3337	AVRG		2.93801		0.3404	5	15	0.050	0.99	
Tetrachloroethene		0.1288	0.1380	0.1386	0.1363	0.1516	0.1329	0.1339	0.1470	AVRG		7.22541		0.1384	5	15	0.050	0.99	
Dibromochloromethane		0.1810	0.1870	0.1898	0.2026	0.2034	0.1990	0.1999	0.2011	AVRG		5.11592		0.1955	4	15	0.050	0.99	
1,2-Dibromoethane		0.1723	0.1864	0.1908	0.1948	0.1983	0.1885	0.1922	0.1890	AVRG		5.28972		0.1890	4	15	0.050	0.99	
Chlorobenzene		0.4944	0.5381	0.5306	0.5175	0.5390	0.4889	0.4851	0.4962	AVRG		1.95610		0.5112	4	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.1416	0.1652	0.1667	0.1640	0.1724	0.1635	0.1616	0.1649	AVRG		6.15505		0.1625	6	15	0.050	0.99	
Ethylbenzene		0.8051	0.8649	0.8279	0.8106	0.8723	0.7676	0.7683	0.7931	AVRG		1.22891		0.8137	5	15	0.050	0.99	
m,p-Xylenes	0.2682	0.2607	0.3056	0.2800	0.2820	0.3052	0.2727	0.2758	0.2846	AVRG		3.58055		0.2816	5	15	0.050	0.99	
o-Xylene		0.2669	0.3019	0.2951	0.2829	0.2973	0.2715	0.2737	0.2797	AVRG		3.52569		0.2836	5	15	0.050	0.99	
Styrene		0.4221	0.5010	0.4786	0.4890	0.5181	0.4833	0.4943	0.4962	AVRG		2.06046		0.4853	6	15	0.050	0.99	
Bromoform		0.1431	0.1256	0.1180	0.1257	0.1307	0.1276	0.1279	0.1259	AVRG		7.80861		0.1281	6	15	0.10	0.99	
Isopropylbenzene		2.0473	2.1273	2.0789	1.9479	2.0892	1.7598	1.6960	1.7977	AVRG		0.51466		1.9430	9	15	0.050	0.99	
1,1,2,2-Tetrachloroethane		0.7809	0.8750	0.9154	0.8746	0.8857	0.8123	0.7803	0.7527	AVRG		1.19816		0.8346	7	15	0.30	0.99	
1,2,3-Trichloropropane		0.9039	0.7434	0.7944	0.7056	0.7028	0.6728	0.6424	0.6163	AVRG		1.38371		0.7227	13	15	0.050	0.99	
Propylbenzene		2.2472	2.3887	2.3005	2.2178	2.4317	2.0661	2.0321	2.1909	AVRG		0.44756		2.2344	6	15	0.050	0.99	
Bromobenzene		0.4645	0.5402	0.5394	0.5054	0.5272	0.4762	0.4590	0.4582	AVRG		2.01510		0.4963	7	15	0.050	0.99	
1,3,5-Trimethylbenzene		1.0795	1.2354	1.2121	1.1647	1.3008	1.1418	1.1755	1.2390	AVRG		0.83781		1.1936	6	15	0.050	0.99	
2-Chlorotoluene		1.6520	1.8649	1.7277	1.6195	1.7324	1.5188	1.4746	1.5008	AVRG		0.61112		1.6363	8	15	0.050	0.99	
4-Chlorotoluene		1.3979	1.6268	1.5009	1.4145	1.5415	1.3647	1.3471	1.3935	AVRG		0.69043		1.4484	7	15	0.050	0.99	
tert-Butylbenzene		1.1706	1.2910m	1.2420m	1.2077m	1.3331m	1.1440m	1.1340m	1.2274m	AVRG		0.82053		1.2187	6	15	0.050	0.99	
1,2,4-Trimethylbenzene		0.9480	1.0817	1.0568	1.0312	1.1540	1.0752	1.1153	1.1625	AVRG		0.92758		1.0781	6	15	0.050	0.99	
sec-Butylbenzene		1.6880	1.6151	1.6767	1.6378	1.8462	1.5581	1.5461	1.7300	AVRG		0.60159		1.6623	6	15	0.050	0.99	
para-Isopropyl Toluene		0.9554	1.0743	1.0175	1.0404	1.1996	1.0562	1.0761	1.1900	AVRG		0.92921		1.0762	8	15	0.050	0.99	
1,3-Dichlorobenzene		0.7714	0.9840	0.8644	0.8514	0.8828	0.7941	0.7826	0.7974	AVRG		1.18904		0.8410	8	15	0.050	0.99	
1,4-Dichlorobenzene		0.8266	0.8659	0.8574	0.8185	0.8503	0.7853	0.7889	0.7996	AVRG		1.21350		0.8241	4	15	0.050	0.99	
n-Butylbenzene		0.7337	0.7575	0.8089	0.8236	0.9921	0.8771	0.9123	1.0390	AVRG		1.15203		0.8680	12	15	0.050	0.99	
1,2-Dichlorobenzene		0.7133	0.8395	0.8392	0.8043	0.8647	0.7934	0.7670	0.7817	AVRG		1.24940		0.8004	6	15	0.050	0.99	
1,2-Dibromo-3-Chloropropane		0.0527	0.1103	0.1223	0.1353	0.1311	0.1279	0.1230	0.1163	LINR	-0.9022	8.40756		0.1149	0.997	15	0.050	0.99	

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496108554002

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,4-Trichlorobenzene		0.0961	0.1525	0.1732	0.1866	0.2340	0.2269	0.2433	0.2561	QUAD	0.61976	4.60093	-0.02813	0.1961	1.000	15	0.050	0.99	
Hexachlorobutadiene		0.0210	0.0940	0.1050	0.1107	0.1371	0.1122	0.1099	0.1273	QUAD	-0.8638	9.96564	-0.15167	0.1021	0.995	15	0.050	0.99	
Naphthalene		0.5645	0.5406	0.5028	0.5606	0.6250	0.6410	0.6817	0.6762	AVRG		1.66933		0.5990	11	15	0.050	0.99	
1,2,3-Trichlorobenzene		0.0472	0.1349	0.1570	0.1809	0.2189	0.2209	0.2361	0.2418	QUAD	0.95783	4.60892	-0.02168	0.1797	1.000	15	0.050	0.99	
tert-Butyl Alcohol (TBA)		0.0270	0.0332	0.0372	0.0376	0.0385	0.0378	0.0374	0.0344	AVRG		28.2523		0.0354	11	15	0.005	0.99	
Isopropyl Ether (DIPE)		1.4075	1.5448	1.5230	1.4943	1.5590	1.4397	1.4078	1.3721	AVRG		0.68094		1.4686	5	15	0.050	0.99	
Ethyl tert-Butyl Ether (ETBE)		1.0411	1.1762	1.1408	1.1471	1.1728	1.0916	1.0837	1.0348	AVRG		0.90007		1.1110	5	15	0.050	0.99	
Methyl tert-Amyl Ether (TAME)		0.4980	0.5364	0.5287	0.5299	0.5408	0.5132	0.5149	0.5007	AVRG		1.92186		0.5203	3	15	0.050	0.99	
Ethanol		0.0049	0.0054	0.0061	0.0058	0.0059	0.0060	0.0057	0.0055	AVRG		176.870		0.0057	7	15	0.0005	0.99	
Isopropanol		0.0204	0.0216	0.0269	0.0273	0.0273	0.0278	0.0272	0.0256	AVRG		39.1725		0.0255	11	15	0.005	0.99	
Tetrahydrofuran		0.1236	0.1218	0.1206	0.1247	0.1271	0.1209	0.1206	0.1066	AVRG		8.28139		0.1208	5	15	0.005	0.99	
Dibromofluoromethane	0.7181	0.7189	0.7259	0.7293	0.7319	0.7221	0.7249	0.7250	0.7113	AVRG		1.38305		0.7230	1	15	0.050	0.99	
1,2-Dichloroethane-d4	0.3744	0.3774	0.3791	0.3774	0.3796	0.3753	0.3745	0.3786	0.3715	AVRG		2.65656		0.3764	1	15	0.050	0.99	
Trifluorotoluene		0.1652	0.1543	0.1704	0.1740	0.1950	0.1671	0.1677	0.1887	AVRG		5.78716		0.1728	8	15	0.050	0.99	
Toluene-d8	1.0606	1.0544	1.0627	1.0763	1.0576	1.0651	1.0585	1.0757	1.0759	AVRG		0.93878		1.0652	1	15	0.050	0.99	
Bromofluorobenzene	1.5339	1.4707	1.4847	1.4935	1.4233	1.3978	1.3437	1.2993	1.3036	AVRG		0.70587		1.4167	6	15	0.050	0.99	

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irf=ICAL minimum RF failure m=manual integration

AVRG=Average response factor LINR=Linear regression QUAD=Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

496108554002

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA10
Seqnum : 496108554018 File : jcg18
Cal : 496108554002 Caldate: 16-MAR-2006
Standards: S2807 (10000X), S2707 (5000X)

IDF : 1.0
Time : 16-MAR-2006 19:20
Caltype: WATER

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	0.3069	0.2381	25.00	19.39	ug/L	-22	30	!v-
Chloromethane	0.5445	0.4520	25.00	20.75	ug/L	-17	30	
Vinyl Chloride	0.4778	0.4027	25.00	21.07	ug/L	-16	20	
Bromomethane	0.1994	0.1857	25.00	21.65	ug/L	-13	30	
Chloroethane	0.2984	0.2505	25.00	20.99	ug/L	-16	30	
Trichlorofluoromethane	0.4396	0.3630	25.00	20.64	ug/L	-17	30	

ISTD (ICAL jcg15)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1223331	1297417	6.06	10.78	10.77	-0.01
1,4-Difluorobenzene	2533641	2620519	3.43	11.96	11.95	-0.01
1,4-Dichlorobenzene-d4	798026	753268	-5.61	18.64	18.65	0.01

3/17/06

3/17/06

!=warning -=low bias v=ICV

496108554018

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA10 Run Name: NP IDF : 1.0
Seqnum : 496108554019 File : jcg19 Time : 16-MAR-2006 19:55
Cal : 496108554002 Caldate : 16-MAR-2006 Caltype : WATER
Standards: S2902 (10000X), S2616 (10000X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Acetone	0.1369	0.1169	25.00	21.36	ug/L	-15	40	
Freon 113	0.2650	0.2553	25.00	24.90	ug/L	0	30	
1,1-Dichloroethene	0.2868	0.2821	25.00	24.59	ug/L	-2	20	
Methylene Chloride	0.4467	0.4393	25.00	24.58	ug/L	-2	30	
Carbon Disulfide	1.3169	1.0603	25.00	20.13	ug/L	-19	30	
MTBE	1.1005	0.9673	25.00	21.97	ug/L	-12	30	
trans-1,2-Dichloroethene	0.3627	0.3601	25.00	24.82	ug/L	-1	30	
Vinyl Acetate	1.0757	0.7210	25.00	18.12	ug/L	-28	40	
1,1-Dichloroethane	0.6622	0.6667	25.00	25.17	ug/L	1	30	
2-Butanone	0.2084	0.2030	25.00	24.36	ug/L	-3	40	
2,2-Dichloropropane	0.4068	0.3763	25.00	23.12	ug/L	-8	30	
cis-1,2-Dichloroethene	0.4072	0.4167	25.00	25.58	ug/L	2	30	
Chloroform	0.6201	0.6229	25.00	25.11	ug/L	0	20	
Bromochloromethane	0.1997	0.2110	25.00	26.40	ug/L	6	30	
1,1,1-Trichloroethane	0.4032	0.4050	25.00	25.11	ug/L	0	30	
1,1-Dichloropropene	0.2124	0.2181	25.00	25.68	ug/L	3	30	
Carbon Tetrachloride	0.1456	0.1536	25.00	26.37	ug/L	5	30	
1,2-Dichloroethane	0.2324	0.2371	25.00	25.50	ug/L	2	30	
Benzene	0.6901	0.6928	25.00	25.10	ug/L	0	30	
Trichloroethene	0.1736	0.1789	25.00	25.77	ug/L	3	30	
1,2-Dichloropropane	0.2071	0.2109	25.00	25.46	ug/L	2	20	
Bromodichloromethane	0.2279	0.2505	25.00	27.48	ug/L	10	30	
Dibromomethane	0.1337	0.1444	25.00	27.01	ug/L	8	30	
2-Chloroethylvinylether	0.0015	0.0015	25.00	24.05	ug/L	-4	40	
4-Methyl-2-Pentanone	0.2200	0.2326	25.00	26.44	ug/L	6	40	
Tetramethyl THF	0.4006	0.3816	25.00	23.81	ug/L	-5	30	
cis-1,3-Dichloropropene	0.2997	0.3178	25.00	26.51	ug/L	6	30	
Toluene	0.3938	0.4060	25.00	25.77	ug/L	3	20	
trans-1,3-Dichloropropene	0.2548	0.2556	25.00	25.08	ug/L	0	30	
1,1,2-Trichloroethane	0.0975	0.1036	25.00	26.56	ug/L	6	30	
2-Hexanone	0.1545	0.1516	25.00	24.52	ug/L	-2	40	
1,3-Dichloropropane	0.3404	0.3530	25.00	25.93	ug/L	4	30	
Tetrachloroethene	0.1384	0.1487	25.00	26.86	ug/L	7	30	
Dibromochloromethane	0.1955	0.2095	25.00	26.79	ug/L	7	30	
1,2-Dibromoethane	0.1890	0.1989	25.00	26.31	ug/L	5	30	
Chlorobenzene	0.5112	0.5289	25.00	25.86	ug/L	3	30	
1,1,1,2-Tetrachloroethane	0.1625	0.1726	25.00	26.56	ug/L	6	30	
Ethylbenzene	0.8137	0.8499	25.00	26.11	ug/L	4	20	
m,p-Xylenes	0.2816	0.2975	50.00	52.82	ug/L	6	30	
o-Xylene	0.2836	0.2965	25.00	26.14	ug/L	5	30	
Styrene	0.4853	0.5140	25.00	26.48	ug/L	6	30	
Bromoform	0.1281	0.1292	25.00	25.22	ug/L	1	30	
Isopropylbenzene	1.9430	1.9209	25.00	24.72	ug/L	-1	30	
1,1,2,2-Tetrachloroethane	0.8346	0.8274	25.00	24.79	ug/L	-1	30	
1,2,3-Trichloropropane	0.7227	0.7010	25.00	24.25	ug/L	-3	30	
Propylbenzene	2.2344	2.4259	25.00	27.14	ug/L	9	30	
Bromobenzene	0.4963	0.5083	25.00	25.61	ug/L	2	30	
1,3,5-Trimethylbenzene	1.1936	1.2832	25.00	26.88	ug/L	8	30	
2-Chlorotoluene	1.6363	1.7099	25.00	26.12	ug/L	4	30	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
4-Chlorotoluene	1.4484	1.4999	25.00	25.89	ug/L	4	30	
tert-Butylbenzene	1.2187	1.3511	25.00	27.72	ug/L	11	30	m
1,2,4-Trimethylbenzene	1.0781	1.1592	25.00	26.88	ug/L	8	30	
sec-Butylbenzene	1.6623	1.8956	25.00	28.51	ug/L	14	30	
para-Isopropyl Toluene	1.0762	1.1603	25.00	26.95	ug/L	8	30	
1,3-Dichlorobenzene	0.8410	0.8644	25.00	25.69	ug/L	3	30	
1,4-Dichlorobenzene	0.8241	0.8495	25.00	25.77	ug/L	3	30	
n-Butylbenzene	0.8680	0.9998	25.00	28.80	ug/L	15	30	
1,2-Dichlorobenzene	0.8004	0.8486	25.00	26.51	ug/L	6	30	
1,2-Dibromo-3-Chloropropane	0.1149	0.1225	25.00	24.85	ug/L	-1	30	
1,2,4-Trichlorobenzene	0.1961	0.2279	25.00	25.92	ug/L	4	30	
Hexachlorobutadiene	0.1021	0.1480	25.00	33.93	ug/L	**36**	30	v+ ***
Naphthalene	0.5990	0.6484	25.00	27.06	ug/L	8	30	
1,2,3-Trichlorobenzene	0.1797	0.2210	25.00	25.76	ug/L	3	30	
tert-Butyl Alcohol (TBA)	0.0354	0.0346	125.0	122.4	ug/L	-2	30	
Isopropyl Ether (DIPE)	1.4686	1.3234	25.00	22.53	ug/L	-10	30	
Ethyl tert-Butyl Ether (ETBE)	1.1110	1.0957	25.00	24.66	ug/L	-1	30	
Methyl tert-Amyl Ether (TAME)	0.5203	0.4999	25.00	24.02	ug/L	-4	30	
Ethanol	0.0057	0.0055	2500	2450	ug/L	-2	30	
Isopropanol	0.0255	0.0251	250.0	246.1	ug/L	-2	30	
Tetrahydrofuran	0.1208	0.1172	250.0	242.7	ug/L	-3	30	

ISTD (ICAL jcg15)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1223331	1288978	5.37	10.78	10.78	0.01
1,4-Difluorobenzene	2533641	2577506	1.73	11.96	11.96	0.00
Chlorobenzene-d5	2197520	2301719	4.74	15.94	15.94	0.00
1,4-Dichlorobenzene-d4	798026	813562	1.95	18.64	18.64	0.00

+=high bias m=manual integration v=ICV

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG09.D
Report Date: 17-Mar-2006 12:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG09.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-MAR-2006 14:04 MS Autotune Date: 27-JUL-1998 20:19
Operator : VOC Inst ID: MSVOA10.i
Smp Info : ICAL,S2783,0.001/1000,S2844,0.0005/1000
Misc Info : S2410,0.0005/1000,0.25/0.5PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\826GOX10.m
Meth Date : 17-Mar-2006 12:29 target Quant Type: ISTD
Cal Date : 16-MAR-2006 14:04 Cal File: JCG09.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

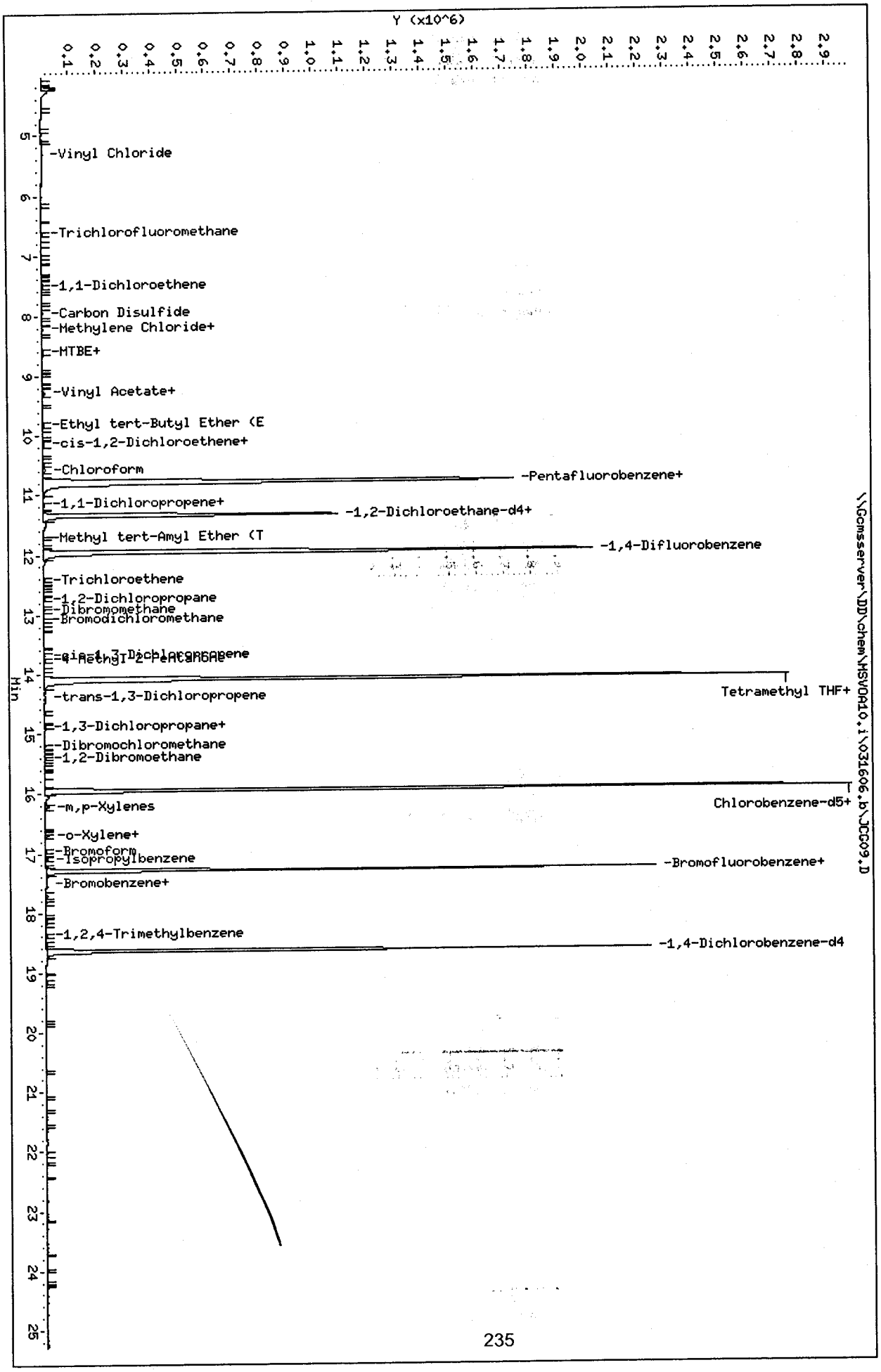
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
3 Vinyl Chloride	62	5.310	5.306	(0.493)	5963	0.50000	0.5070
6 Trichlorofluoromethane	101	6.639	6.635	(0.616)	5796	0.50000	0.5356
10 1,1-Dichloroethene	96	7.495	7.502	(0.696)	1682	0.25000	0.2382
12 Carbon Disulfide	76	7.948	7.954	(0.738)	8532	0.25000	0.2632
13 Methylene Chloride	84	8.204	8.210	(0.762)	4324	0.25000	0.3932
14 tert-Butyl Alcohol (TBA)	59	8.224	8.220	(0.763)	1477	2.50000	1.6952
15 MTBE	73	8.598	8.603	(0.798)	7006	0.25000	0.2586
16 trans-1,2-Dichloroethene	96	8.647	8.653	(0.803)	2557	0.25000	0.2863
18 Vinyl Acetate	43	9.268	9.244	(0.860)	10044	0.25000	0.8582
19 1,1-Dichloroethane	63	9.268	9.274	(0.860)	4203	0.25000	0.2578
20 Isopropyl Ether (DIPE)	45	9.287	9.284	(0.862)	8995	0.25000	0.2488
21 Ethyl tert-Butyl Ether (ETBE)	59	9.819	9.825	(0.911)	6955	0.25000	0.2543
23 cis-1,2-Dichloroethene	96	10.124	10.120	(0.940)	2397	0.25000	0.2391
24 2,2-Dichloropropane	77	10.144	10.160	(0.942)	2701	0.25000	0.2697
26 Chloroform	83	10.547	10.554	(0.979)	3742	0.25000	0.2451
* 28 Pentafluorobenzene	168	10.774	10.780	(1.000)	1230724	50.0000	
$ 29 Dibromofluoromethane	113	10.794	10.800	(1.002)	883773	50.0000	49.6577
30 1,1,1-Trichloroethane	97	10.922	10.938	(1.014)	2313	0.25000	0.2330
31 1,1-Dichloropropene	75	11.158	11.164	(0.933)	2722	0.25000	0.2550
32 Carbon Tetrachloride	117	11.197	11.213	(0.937)	1727	0.25000	0.2361
$ 33 1,2-Dichloroethane-d4	65	11.345	11.341	(0.949)	940538	50.0000	49.7283
34 1,2-Dichloroethane	62	11.453	11.459	(0.958)	2745	0.25000	0.2350

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG09.D
Report Date: 17-Mar-2006 12:37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
35 Benzene	78	11.493	11.499	(0.961)	10060	0.25000	0.2901
36 Methyl tert-Amyl Ether (TAME)	73	11.542	11.548	(0.965)	6713	0.25000	0.2567
* 37 1,4-Difluorobenzene	114	11.955	11.962	(1.000)	2512239	50.0000	
38 Trichloroethene	95	12.398	12.414	(1.037)	2260	0.25000	0.2591
40 1,2-Dichloropropane	63	12.723	12.739	(1.064)	2358	0.25000	0.2266
41 Dibromomethane	93	12.910	12.907	(1.080)	1016	0.25000	0.1512
42 Bromodichloromethane	83	13.078	13.074	(1.094)	2532	0.25000	0.2210
44 cis-1,3-Dichloropropene	75	13.678	13.675	(1.144)	3211	0.25000	0.2132
45 Tetramethyl THF	43	14.092	13.763	(1.179)	14307	0.25000	0.7107
46 4-Methyl-2-Pentanone	43	13.826	13.812	(1.156)	2358	0.25000	0.2133
$ 47 Toluene-d8	98	14.082	14.088	(1.178)	2664595	50.0000	49.7858
48 Toluene	92	14.180	14.177	(1.186)	5271	0.25000	0.2663
49 trans-1,3-Dichloropropene	75	14.387	14.383	(1.203)	3058	0.25000	0.2389
51 1,3-Dichloropropane	76	14.879	14.876	(0.933)	3446	0.25000	0.2311
53 Tetrachloroethene	166	14.929	14.925	(0.936)	1314	0.25000	0.2167
54 Dibromochloromethane	129	15.204	15.201	(0.954)	1423	0.25000	0.1661
55 1,2-Dibromoethane	107	15.401	15.388	(1.288)	2034	0.25000	0.2141
* 56 Chlorobenzene-d5	117	15.943	15.939	(1.000)	2190262	50.0000	
57 Chlorobenzene	112	15.982	15.978	(1.002)	5734	0.25000	0.2560
58 1,1,1,2-Tetrachloroethane	131	16.041	16.047	(1.006)	1523	0.25000	0.2139
59 Ethylbenzene	91	16.071	16.067	(1.008)	8884	0.25000	0.2492
60 m,p-Xylenes	106	16.209	16.195	(1.017)	5874	0.50000	0.4761
61 o-Xylene	106	16.681	16.687	(1.046)	2880	0.25000	0.2317
62 Styrene	104	16.691	16.687	(1.047)	4988	0.25000	0.2346
63 Bromoform	173	16.957	16.953	(1.064)	1809	0.25000	0.3224
64 Isopropylbenzene	105	17.085	17.081	(0.917)	7177	0.25000	0.2650
$ 66 Bromofluorobenzene	95	17.292	17.288	(0.928)	1068934	50.0000	54.1354
67 1,1,2,2-Tetrachloroethane	83	17.380	17.376	(0.932)	3009	0.25000	0.2586
68 1,2,3-Trichloropropane	75	17.469	17.465	(0.937)	2039	0.25000	0.2024
69 Bromobenzene	156	17.508	17.504	(0.939)	1882	0.25000	0.2720
73 4-Chlorotoluene	91	17.557	17.810	(0.942)	7916	0.25000	0.3921
75 1,2,4-Trimethylbenzene	105	18.374	18.174	(0.986)	6314	0.25000	0.4202
* 79 1,4-Dichlorobenzene-d4	152	18.640	18.646	(1.000)	696885	50.0000	

Data File: \\Comsserver\DD\chem\MSVOA10.i\031606.b\JCC09.D
Date : 16-MAR-2006 14:04
Client ID: DYNA P&T
Sample Info: ICAL,S2783,0.001/1000,S2844,0.0005/1000
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA10.i\031606.b\JCG10.D
Report Date: 17-Mar-2006 16:19

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA10.i\031606.b\JCG10.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-MAR-2006 14:39 MS Autotune Date: 27-JUL-1998 20:19
Operator : VOC Inst ID: MSVOA10.i
Smp Info : ICAL,S2783,0.002/1000,S2844,0.001/1000
Misc Info : S2410,0.001/1000,0.5/1PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA10.i\031606.b\826GOX10.m
Meth Date : 17-Mar-2006 16:08 target Quant Type: ISTD
Cal Date : 16-MAR-2006 14:39 Cal File: JCG10.D
Als bottle: 10 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.646	4.646	(0.431)	7366	1.00000	0.9713
2 Chloromethane	50	5.118	5.119	(0.475)	12441	1.00000	0.9248
3 Vinyl Chloride	62	5.315	5.306	(0.494)	11323	1.00000	0.9591
4 Bromomethane	94	5.985	5.985	(0.556)	4061	1.00000	1.7680
5 Chloroethane	64	6.172	6.163	(0.573)	6953	1.00000	0.9432
6 Trichlorofluoromethane	101	6.635	6.635	(0.616)	10326	1.00000	0.9508
7 Ethanol	45	6.792	6.783	(0.631)	6078	50.0000	43.5135
8 Freon 113	101	7.462	7.472	(0.693)	3258	0.50000	
10 1,1-Dichloroethene	96	7.501	7.502	(0.696)	3802	0.50000	0.5365
11 Isopropanol	45	7.619	7.600	(0.707)	2523	5.00000	4.0004
12 Carbon Disulfide	76	7.944	7.954	(0.738)	16856	0.50000	0.5180
13 Methylene Chloride	84	8.220	8.210	(0.763)	6728	0.50000	0.6095
14 tert-Butyl Alcohol (TBA)	59	8.229	8.220	(0.764)	3339	5.00000	3.8183
15 MTBE	73	8.604	8.604	(0.799)	12630	0.50000	0.4645
16 trans-1,2-Dichloroethene	96	8.653	8.653	(0.803)	4637	0.50000	0.5174
18 Vinyl Acetate	43	9.273	9.244	(0.861)	18080	0.50000	1.1755

Data File: \\GCMSSERVER\DD\chem\MSVOA10.i\031606.b\JCG10.D
Report Date: 17-Mar-2006 16:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	19 1,1-Dichloroethane	63	9.273	9.274	(0.861)	7890	0.50000	0.4823
	20 Isopropyl Ether (DIPE)	45	9.283	9.284	(0.862)	17387	0.50000	0.4792
	21 Ethyl tert-Butyl Ether (ETBE)	59	9.824	9.825	(0.912)	12861	0.50000	0.4685
	22 2-Butanone	43	10.090	10.052	(0.937)	2570	0.50000	0.4992
	23 cis-1,2-Dichloroethene	96	10.130	10.120	(0.941)	4731	0.50000	0.4702
	24 2,2-Dichloropropane	77	10.149	10.160	(0.942)	5376	0.50000	0.5348
	25 Bromochloromethane	128	10.504	10.495	(0.975)	1983	0.50000	0.4018
	26 Chloroform	83	10.553	10.554	(0.980)	7171	0.50000	0.4680
	27 Tetrahydrofuran	42	10.573	10.563	(0.982)	15270	5.00000	5.1185
*	28 Pentafluorobenzene	168	10.770	10.780	(1.000)	1235269	50.0000	
$	29 Dibromofluoromethane	113	10.799	10.800	(1.003)	888045	50.0000	49.7142
	30 1,1,1-Trichloroethane	97	10.927	10.938	(1.015)	4772	0.50000	0.4790
	31 1,1-Dichloropropene	75	11.163	11.164	(0.934)	5752	0.50000	0.5370
	32 Carbon Tetrachloride	117	11.193	11.213	(0.937)	3559	0.50000	0.4848
$	33 1,2-Dichloroethane-d4	65	11.341	11.341	(0.949)	951614	50.0000	50.1334
	34 1,2-Dichloroethane	62	11.459	11.459	(0.959)	5599	0.50000	0.4777
	35 Benzene	78	11.488	11.499	(0.961)	17453	0.50000	0.5015
	36 Methyl tert-Amyl Ether (TAME)	73	11.547	11.548	(0.966)	12555	0.50000	0.4785
*	37 1,4-Difluorobenzene	114	11.951	11.962	(1.000)	2521286	50.0000	
	38 Trichloroethene	95	12.404	12.414	(1.038)	4585	0.50000	0.5238
$	39 Trifluorotoluene	146	12.719	12.720	(1.064)	4164	0.50000	0.4778
	40 1,2-Dichloropropane	63	12.729	12.739	(1.065)	4868	0.50000	0.4662
	41 Dibromomethane	93	12.906	12.907	(1.080)	2923	0.50000	0.4336
	42 Bromodichloromethane	83	13.073	13.074	(1.094)	5233	0.50000	0.4552
	44 cis-1,3-Dichloropropene	75	13.684	13.675	(1.145)	6832	0.50000	0.4520
	45 Tetramethyl THF	43	13.763	13.763	(1.152)	8993	0.50000	0.4451
	46 4-Methyl-2-Pentanone	43	13.822	13.812	(1.157)	4656	0.50000	0.4196
$	47 Toluene-d8	98	14.087	14.088	(1.179)	2658550	50.0000	49.4946
	48 Toluene	92	14.176	14.177	(1.186)	10052	0.50000	0.5061
	49 trans-1,3-Dichloropropene	75	14.383	14.383	(1.203)	5462	0.50000	0.4251
	50 1,1,2-Trichloroethane	85	14.639	14.649	(1.225)	2294	0.50000	0.4667
	51 1,3-Dichloropropane	76	14.875	14.876	(0.933)	6605	0.50000	0.4442
	53 Tetrachloroethene	166	14.924	14.925	(0.936)	2814	0.50000	0.4654
	54 Dibromochloromethane	129	15.210	15.201	(0.954)	3953	0.50000	0.4629
	55 1,2-Dibromoethane	107	15.397	15.388	(1.288)	4345	0.50000	0.4557
*	56 Chlorobenzene-d5	117	15.938	15.939	(1.000)	2184281	50.0000	
	57 Chlorobenzene	112	15.978	15.978	(1.002)	10798	0.50000	0.4835
	58 1,1,1,2-Tetrachloroethane	131	16.047	16.047	(1.007)	3092	0.50000	0.4356
	59 Ethylbenzene	91	16.066	16.067	(1.008)	17586	0.50000	0.4947
	60 m,p-Xylenes	106	16.194	16.195	(1.016)	11387	1.00000	0.9254
	61 o-Xylene	106	16.687	16.687	(1.047)	5829	0.50000	0.4704
	62 Styrene	104	16.696	16.687	(1.048)	9219	0.50000	0.4348
	63 Bromoform	173	16.952	16.953	(1.064)	3126	0.50000	0.5587
	64 Isopropylbenzene	105	17.090	17.081	(0.917)	14833	0.50000	0.5268
	65 Cyclohexanone_	55	17.228	17.219	(0.924)	5706	0.50000	0.4239
$	66 Bromofluorobenzene	95	17.287	17.288	(0.928)	1065532	50.0000	51.9056
	67 1,1,2,2-Tetrachloroethane	83	17.386	17.376	(0.933)	5658	0.50000	0.4678

Data File: \\GCMSSERVER\DD\chem\MSVOA10.i\031606.b\JCG10.D
Report Date: 17-Mar-2006 16:19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
68 1,2,3-Trichloropropane	75	17.464	17.465	(0.937)	6549	0.50000	0.6253
69 Bromobenzene	156	17.514	17.504	(0.940)	3365	0.50000	0.4679
70 Propylbenzene	91	17.553	17.544	(0.942)	16281	0.50000	0.5028
71 2-Chlorotoluene	91	17.701	17.701	(0.950)	11969	0.50000	0.5047
72 1,3,5-Trimethylbenzene	105	17.720	17.721	(0.951)	7821	0.50000	0.4522
73 4-Chlorotoluene	91	17.819	17.810	(0.956)	10128	0.50000	0.4825
74 tert-Butylbenzene	119	18.124	18.125	(0.973)	8481	0.50000	0.4802
75 1,2,4-Trimethylbenzene	105	18.173	18.174	(0.975)	6868	0.50000	0.4396
76 sec-Butylbenzene	105	18.380	18.371	(0.986)	12230	0.50000	0.5077
77 para-Isopropyl Toluene	119	18.518	18.518	(0.994)	6922	0.50000	0.4438
78 1,3-Dichlorobenzene	146	18.577	18.578	(0.997)	5589	0.50000	0.4586
* 79 1,4-Dichlorobenzene-d4	152	18.636	18.646	(1.000)	724509	50.0000	
80 1,4-Dichlorobenzene	146	18.666	18.676	(1.002)	5989	0.50000	0.5015
81 n-Butylbenzene	91	19.020	19.011	(1.021)	5316	0.50000	0.4226
82 1,2-Dichlorobenzene	146	19.158	19.149	(1.028)	5168	0.50000	0.4456
83 1,2-Dibromo-3-Chloropropane	75	20.152	20.123	(1.081)	382	0.50000	
84 1,2,4-Trichlorobenzene	180	21.393	21.374	(1.148)	696	0.50000	0.8406
85 Hexachlorobutadiene	225	21.580	21.590	(1.158)	152	0.50000	(M)
86 Naphthalene	128	21.846	21.817	(1.172)	4090	0.50000	0.4711
87 1,2,3-Trichlorobenzene	180	22.259	22.230	(1.194)	342	0.50000	1.0665

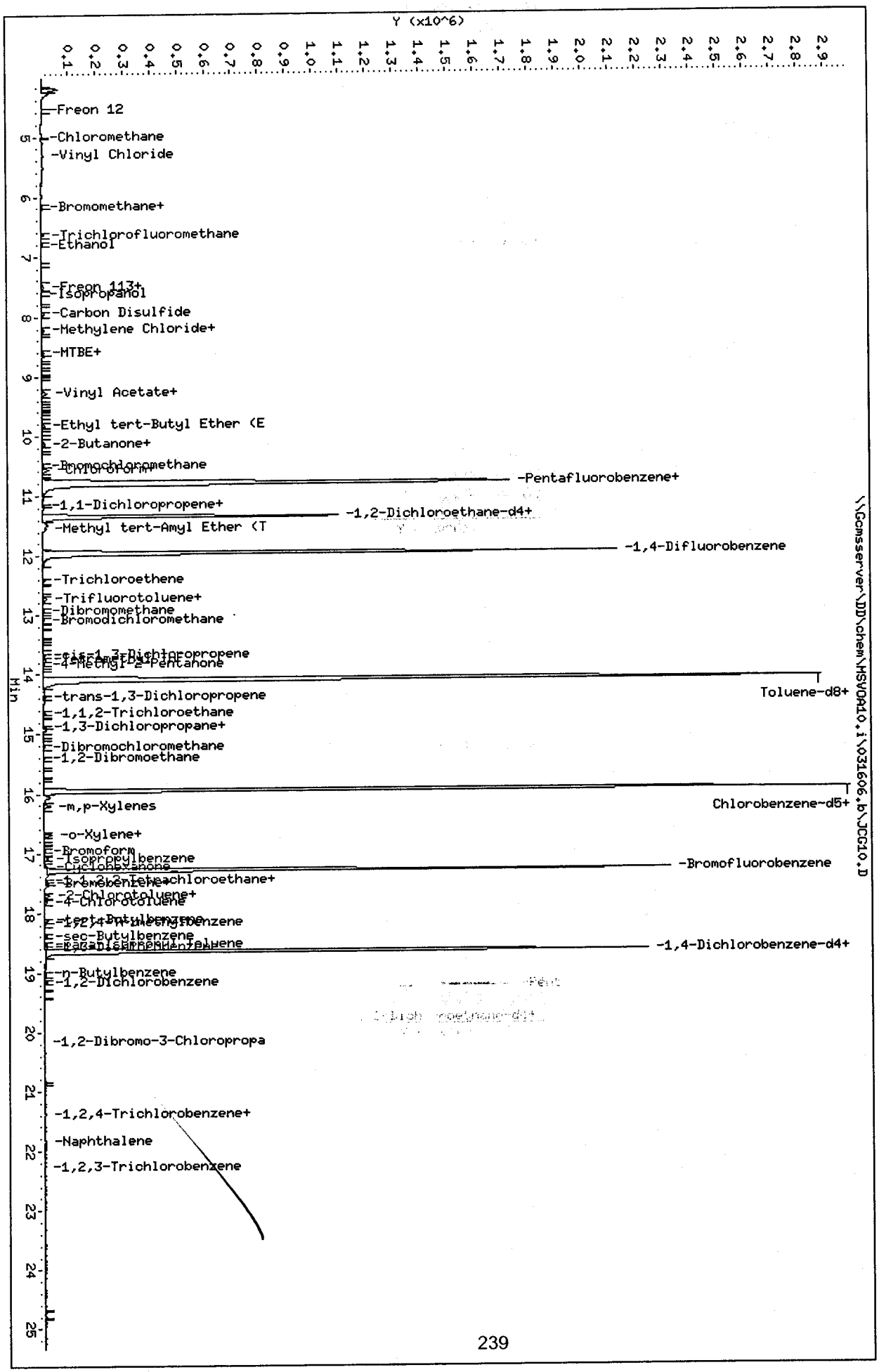
3/17/06

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA10.i\031606.b\JCG10.D
Date : 16-MAR-2006 14:39
Client ID: DYNA P&T
Sample Info: ICAL,S2783,0.002/1000,S2844,0.001/1000
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG11.D
Report Date: 17-Mar-2006 12:38

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG11.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-MAR-2006 15:14 MS Autotune Date: 27-JUL-1998 20:19
Operator : VOC Inst ID: MSVOA10.i
Smp Info : ICAL,S2783,0.002/500,S2844,0.002/500
Misc Info : S2410,0.001/500,2PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\826GOX10.m
Meth Date : 17-Mar-2006 12:29 target Quant Type: ISTD
Cal Date : 16-MAR-2006 15:14 Cal File: JCG11.D
Als bottle: 11 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.645	4.646	(0.431)	12608	2.00000	1.6668
2 Chloromethane	50	5.108	5.119	(0.474)	27535	2.00000	2.0520
3 Vinyl Chloride	62	5.305	5.306	(0.492)	23028	2.00000	1.9556
4 Bromomethane	94	5.994	5.985	(0.556)	7316	2.00000	2.3732
5 Chloroethane	64	6.161	6.163	(0.572)	16051	2.00000	2.1829
6 Trichlorofluoromethane	101	6.624	6.635	(0.615)	20841	2.00000	1.9239
7 Ethanol	45	6.791	6.783	(0.630)	26521	200.000	190.3500
8 Freon 113	101	7.461	7.472	(0.692)	8631	2.00000	0.5937
9 Acetone	43	7.500	7.482	(0.696)	6940	2.00000	2.0578
10 1,1-Dichloroethene	96	7.500	7.502	(0.696)	12767	2.00000	1.8064
11 Isopropanol	45	7.618	7.600	(0.707)	10632	20.0000	16.9006
12 Carbon Disulfide	76	7.943	7.954	(0.737)	63077	2.00000	1.9436
13 Methylene Chloride	84	8.209	8.210	(0.762)	23472	2.00000	2.1320
14 tert-Butyl Alcohol (TBA)	59	8.219	8.220	(0.763)	16386	20.0000	18.7860
15 MTBE	73	8.603	8.603	(0.798)	54578	2.00000	2.0125
16 trans-1,2-Dichloroethene	96	8.652	8.653	(0.803)	18293	2.00000	2.0464
18 Vinyl Acetate	43	9.253	9.244	(0.858)	52447	2.00000	2.5441(M)
19 1,1-Dichloroethane	63	9.272	9.274	(0.860)	35422	2.00000	2.1708
20 Isopropyl Ether (DIPE)	45	9.282	9.284	(0.861)	76138	2.00000	2.1038
21 Ethyl tert-Butyl Ether (ETBE)	59	9.814	9.825	(0.910)	57971	2.00000	2.1173
22 2-Butanone	43	10.070	10.052	(0.934)	9526	2.00000	1.8552
23 cis-1,2-Dichloroethene	96	10.129	10.120	(0.940)	22413	2.00000	2.2335

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG11.D
Report Date: 17-Mar-2006 12:38

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
24 2,2-Dichloropropane	77	10.149	10.160	(0.942)	20948	2.00000	2.0895
25 Bromochloromethane	128	10.493	10.495	(0.974)	10438	2.00000	2.1206
26 Chloroform	83	10.562	10.554	(0.980)	32558	2.00000	2.1305
27 Tetrahydrofuran	42	10.572	10.563	(0.981)	60020	20.0000	20.1700
* 28 Pentafluorobenzene	168	10.779	10.780	(1.000)	1232146	50.0000	
$ 29 Dibromofluoromethane	113	10.798	10.800	(1.002)	894440	50.0000	50.1991
30 1,1,1-Trichloroethane	97	10.926	10.938	(1.014)	20168	2.00000	2.0296
31 1,1-Dichloropropene	75	11.163	11.164	(0.934)	20594	2.00000	1.9210
32 Carbon Tetrachloride	117	11.202	11.213	(0.937)	13056	2.00000	1.7770
$ 33 1,2-Dichloroethane-d4	65	11.340	11.341	(0.949)	956769	50.0000	50.3582
34 1,2-Dichloroethane	62	11.468	11.459	(0.960)	24290	2.00000	2.0705
35 Benzene	78	11.488	11.499	(0.961)	73273	2.00000	2.1037
36 Methyl tert-Amyl Ether (TAME)	73	11.547	11.548	(0.966)	54151	2.00000	2.0619
* 37 1,4-Difluorobenzene	114	11.950	11.962	(1.000)	2523626	50.0000	
38 Trichloroethene	95	12.413	12.414	(1.039)	17701	2.00000	2.0205
$ 39 Trifluorotoluene	146	12.718	12.720	(1.064)	15571	2.00000	1.7853
40 1,2-Dichloropropane	63	12.728	12.739	(1.065)	22310	2.00000	2.1347
41 Dibromomethane	93	12.905	12.907	(1.080)	13078	2.00000	1.9386
42 Bromodichloromethane	83	13.073	13.074	(1.094)	22994	2.00000	1.9986
44 cis-1,3-Dichloropropene	75	13.683	13.675	(1.145)	30845	2.00000	2.0391
45 Tetramethyl THF	43	13.752	13.763	(1.151)	40270	2.00000	1.9915
46 4-Methyl-2-Pentanone	43	13.811	13.812	(1.156)	19666	2.00000	1.7710
$ 47 Toluene-d8	98	14.087	14.088	(1.179)	2681784	50.0000	49.8809
48 Toluene	92	14.175	14.177	(1.186)	42130	2.00000	2.1194
49 trans-1,3-Dichloropropene	75	14.382	14.383	(1.203)	24891	2.00000	1.9358
50 1,1,2-Trichloroethane	85	14.648	14.649	(1.226)	9826	2.00000	1.9972
51 1,3-Dichloropropane	76	14.884	14.876	(0.934)	30660	2.00000	2.0473
52 2-Hexanone	43	14.904	14.886	(0.935)	11030	2.00000	1.6221 (M)
53 Tetrachloroethene	166	14.924	14.925	(0.936)	12143	2.00000	1.9940
54 Dibromochloromethane	129	15.199	15.201	(0.954)	16458	2.00000	1.9136
55 1,2-Dibromoethane	107	15.386	15.388	(1.288)	18816	2.00000	1.9719
* 56 Chlorobenzene-d5	117	15.938	15.939	(1.000)	2199950	50.0000	
57 Chlorobenzene	112	15.977	15.978	(1.002)	47355	2.00000	2.1053
58 1,1,1,2-Tetrachloroethane	131	16.046	16.047	(1.007)	14536	2.00000	2.0334
59 Ethylbenzene	91	16.066	16.067	(1.008)	76106	2.00000	2.1256
60 m,p-Xylenes	106	16.204	16.195	(1.017)	53790	4.00000	4.3406
61 o-Xylene	106	16.686	16.687	(1.047)	26565	2.00000	2.1286
62 Styrene	104	16.696	16.687	(1.048)	44084	2.00000	2.0644
63 Bromoform	173	16.952	16.953	(1.064)	11049	2.00000	1.9608
64 Isopropylbenzene	105	17.080	17.081	(0.917)	61172	2.00000	2.1896
65 Cyclohexanone_	55	17.227	17.219	(0.924)	25436	2.00000	1.9047
$ 66 Bromofluorobenzene	95	17.286	17.288	(0.928)	1067350	50.0000	52.3994
67 1,1,2,2-Tetrachloroethane	83	17.375	17.376	(0.932)	25162	2.00000	2.0967
68 1,2,3-Trichloropropane	75	17.464	17.465	(0.937)	21377	2.00000	2.0572
69 Bromobenzene	156	17.503	17.504	(0.939)	15534	2.00000	2.1770
70 Propylbenzene	91	17.552	17.544	(0.942)	68689	2.00000	2.1381
71 2-Chlorotoluene	91	17.700	17.701	(0.950)	53628	2.00000	2.2793
72 1,3,5-Trimethylbenzene	105	17.720	17.721	(0.951)	35525	2.00000	2.0700
73 4-Chlorotoluene	91	17.818	17.810	(0.956)	46781	2.00000	2.2464
74 tert-Butylbenzene	119	18.123	18.125	(0.973)	37123	2.00000	2.1185 (M)
75 1,2,4-Trimethylbenzene	105	18.173	18.174	(0.975)	31107	2.00000	2.0068
76 sec-Butylbenzene	105	18.369	18.371	(0.986)	46445	2.00000	1.9432
77 para-Isopropyl Toluene	119	18.517	18.518	(0.994)	30893	2.00000	1.9965
78 1,3-Dichlorobenzene	146	18.576	18.578	(0.997)	28295	2.00000	2.3399

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG11.D
Report Date: 17-Mar-2006 12:38

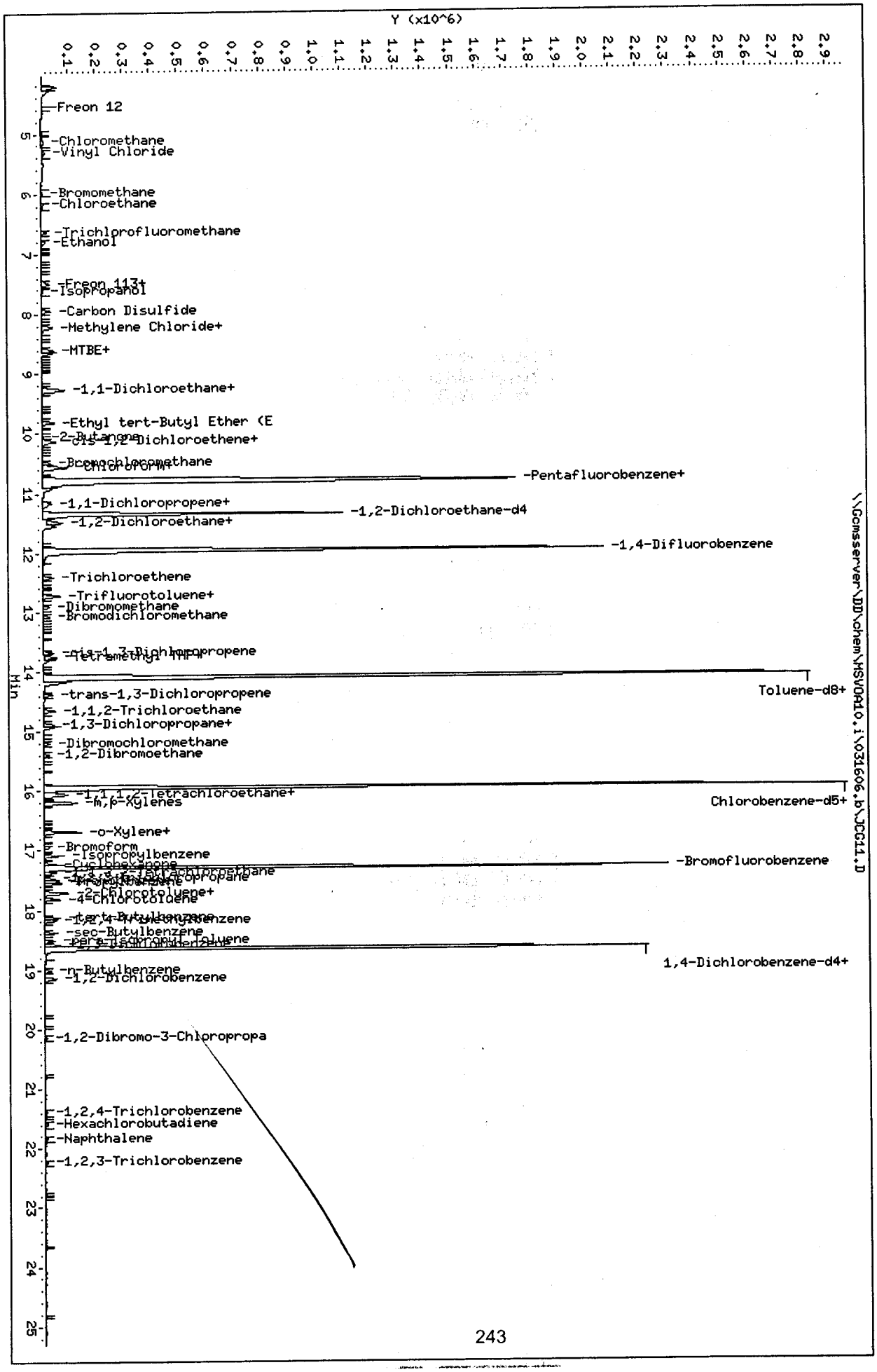
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 79 1,4-Dichlorobenzene-d4	152	18.635	18.646	(1.000)	718906	50.0000	
80 1,4-Dichlorobenzene	146	18.675	18.676	(1.002)	24900	2.00000	2.1015
81 n-Butylbenzene	91	19.009	19.011	(1.020)	21782	2.00000	1.7452
82 1,2-Dichlorobenzene	146	19.147	19.149	(1.027)	24142	2.00000	2.0978
83 1,2-Dibromo-3-Chloropropane	75	20.142	20.123	(1.081)	3171	2.00000	0.9520
84 1,2,4-Trichlorobenzene	180	21.392	21.374	(1.148)	4386	2.00000	2.0206
85 Hexachlorobutadiene	225	21.579	21.590	(1.158)	2703	2.00000	1.0043
86 Naphthalene	128	21.825	21.817	(1.171)	15545	2.00000	1.8048
87 1,2,3-Trichlorobenzene	180	22.239	22.230	(1.193)	3878	2.00000	2.1993

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA10.i\031606.b\JCC11.D
Date : 16-MAR-2006 15:14
Client ID: DYNA P&T
Sample Info: ICAL,S2783,0.002/500,S2844,0.002/500
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG12.D
Report Date: 17-Mar-2006 12:38

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG12.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-MAR-2006 15:49 MS Autotune Date: 27-JUL-1998 20:19
Operator : VOC Inst ID: MSVOA10.i
Smp Info : ICAL,S2783,0.005/500,S2844,0.005/500
Misc Info : S2410,0.0025/500,5PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\826GOX10.m
Meth Date : 17-Mar-2006 12:29 target Quant Type: ISTD
Cal Date : 16-MAR-2006 15:49 Cal File: JCG12.D
Als bottle: 12 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.658	4.646	(0.432)	37733	5.00000	5.0575
2 Chloromethane	50	5.110	5.119	(0.474)	67120	5.00000	5.0713
3 Vinyl Chloride	62	5.307	5.306	(0.493)	59117	5.00000	5.0900
4 Bromomethane	94	5.987	5.985	(0.556)	18018	5.00000	4.3955
5 Chloroethane	64	6.164	6.163	(0.572)	36719	5.00000	5.0628
6 Trichlorofluoromethane	101	6.627	6.635	(0.615)	54121	5.00000	5.0652
7 Ethanol	45	6.784	6.783	(0.630)	73568	500.000	535.3222
8 Freon 113	101	7.463	7.472	(0.693)	30505	5.00000	4.3879
9 Acetone	43	7.493	7.482	(0.696)	16569	5.00000	4.9810
10 1,1-Dichloroethene	96	7.493	7.502	(0.696)	34356	5.00000	4.9282
11 Isopropanol	45	7.611	7.600	(0.707)	32729	50.0000	52.7455
12 Carbon Disulfide	76	7.946	7.954	(0.738)	159892	5.00000	4.9950
13 Methylene Chloride	84	8.212	8.210	(0.762)	53079	5.00000	4.8879
14 tert-Butyl Alcohol (TBA)	59	8.222	8.220	(0.763)	45162	50.0000	52.4925
15 MTBE	73	8.596	8.603	(0.798)	135828	5.00000	5.0779
16 trans-1,2-Dichloroethene	96	8.655	8.653	(0.803)	45022	5.00000	5.1062
18 Vinyl Acetate	43	9.245	9.244	(0.858)	125330	5.00000	5.5114 (M)
19 1,1-Dichloroethane	63	9.265	9.274	(0.860)	82166	5.00000	5.1050
20 Isopropyl Ether (DIPE)	45	9.275	9.284	(0.861)	185098	5.00000	5.1854
21 Ethyl tert-Butyl Ether (ETBE)	59	9.816	9.825	(0.911)	138650	5.00000	5.1341
22 2-Butanone	43	10.063	10.052	(0.934)	24560	5.00000	4.8494
23 cis-1,2-Dichloroethene	96	10.122	10.120	(0.940)	49957	5.00000	5.0472

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG12.D
Report Date: 17-Mar-2006 12:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	24 2,2-Dichloropropane	77	10.151	10.160	(0.942)	49497	5.00000	5.0055
	25 Bromochloromethane	128	10.496	10.495	(0.974)	24584	5.00000	5.0635
	26 Chloroform	83	10.555	10.554	(0.980)	78481	5.00000	5.2067
	27 Tetrahydrofuran	42	10.565	10.563	(0.981)	146605	50.0000	49.9485
*	28 Pentafluorobenzene	168	10.771	10.780	(1.000)	1215343	50.0000	
$	29 Dibromofluoromethane	113	10.801	10.800	(1.003)	886359	50.0000	50.4333
	30 1,1,1-Trichloroethane	97	10.929	10.938	(1.015)	48688	5.00000	4.9674
	31 1,1-Dichloropropene	75	11.155	11.164	(0.933)	52631	5.00000	4.9764
	32 Carbon Tetrachloride	117	11.195	11.213	(0.937)	35799	5.00000	4.9387
$	33 1,2-Dichloroethane-d4	65	11.342	11.341	(0.949)	939679	50.0000	50.1318
	34 1,2-Dichloroethane	62	11.461	11.459	(0.959)	59868	5.00000	5.1728
	35 Benzene	78	11.490	11.499	(0.961)	178318	5.00000	5.1894
	36 Methyl tert-Amyl Ether (TAME)	73	11.549	11.548	(0.966)	131645	5.00000	5.0809
*	37 1,4-Difluorobenzene	114	11.953	11.962	(1.000)	2489745	50.0000	
	38 Trichloroethene	95	12.406	12.414	(1.038)	44809	5.00000	5.1845
$	39 Trifluorotoluene	146	12.721	12.720	(1.064)	42425	5.00000	4.9306
	40 1,2-Dichloropropane	63	12.731	12.739	(1.065)	53023	5.00000	5.1425
	41 Dibromomethane	93	12.908	12.907	(1.080)	33971	5.00000	5.1042
	42 Bromodichloromethane	83	13.075	13.074	(1.094)	58145	5.00000	5.1228
	44 cis-1,3-Dichloropropene	75	13.676	13.675	(1.144)	75091	5.00000	5.0318
	45 Tetramethyl THF	43	13.755	13.763	(1.151)	105072	5.00000	5.2671
	46 4-Methyl-2-Pentanone	43	13.814	13.812	(1.156)	53428	5.00000	4.8769
$	47 Toluene-d8	98	14.079	14.088	(1.178)	2679721	50.0000	50.5208
	48 Toluene	92	14.178	14.177	(1.186)	98847	5.00000	5.0403
	49 trans-1,3-Dichloropropene	75	14.375	14.383	(1.203)	63150	5.00000	4.9781
	50 1,1,2-Trichloroethane	85	14.651	14.649	(1.226)	24876	5.00000	5.1250
	51 1,3-Dichloropropane	76	14.877	14.876	(0.933)	77290	5.00000	5.2086
	52 2-Hexanone	43	14.897	14.886	(0.935)	30945	5.00000	4.5931
	53 Tetrachloroethene	166	14.926	14.925	(0.936)	30222	5.00000	5.0088
	54 Dibromochloromethane	129	15.202	15.201	(0.954)	41371	5.00000	4.8547
	55 1,2-Dibromoethane	107	15.389	15.388	(1.287)	47510	5.00000	5.0469
*	56 Chlorobenzene-d5	117	15.940	15.939	(1.000)	2179817	50.0000	
	57 Chlorobenzene	112	15.980	15.978	(1.002)	115651	5.00000	5.1890
	58 1,1,1,2-Tetrachloroethane	131	16.039	16.047	(1.006)	36340	5.00000	5.1305
	59 Ethylbenzene	91	16.068	16.067	(1.008)	180458	5.00000	5.0868
	60 m,p-Xylenes	106	16.196	16.195	(1.016)	122066	10.0000	9.9412
	61 o-Xylene	106	16.679	16.687	(1.046)	64333	5.00000	5.2026
	62 Styrene	104	16.688	16.687	(1.047)	104336	5.00000	4.9311
	63 Bromoform	173	16.954	16.953	(1.064)	25721	5.00000	4.6069
	64 Isopropylbenzene	105	17.082	17.081	(0.917)	148298	5.00000	5.3496
	65 Cyclohexanone_	55	17.220	17.219	(0.924)	74793	5.00000	5.6445
$	66 Bromofluorobenzene	95	17.289	17.288	(0.928)	1065372	50.0000	52.7099
	67 1,1,2,2-Tetrachloroethane	83	17.378	17.376	(0.932)	65297	5.00000	5.4837
	68 1,2,3-Trichloropropane	75	17.466	17.465	(0.937)	56669	5.00000	5.4961
	69 Bromobenzene	156	17.506	17.504	(0.939)	38478	5.00000	5.4347
	70 Propylbenzene	91	17.545	17.544	(0.941)	164102	5.00000	5.1479
	71 2-Chlorotoluene	91	17.703	17.701	(0.950)	123244	5.00000	5.2791
	72 1,3,5-Trimethylbenzene	105	17.722	17.721	(0.951)	86462	5.00000	5.0773
	73 4-Chlorotoluene	91	17.811	17.810	(0.956)	107065	5.00000	5.1812
	74 tert-Butylbenzene	119	18.126	18.125	(0.973)	88598	5.00000	5.0955 (M)
	75 1,2,4-Trimethylbenzene	105	18.175	18.174	(0.975)	75385	5.00000	4.9012
	76 sec-Butylbenzene	105	18.372	18.371	(0.986)	119610	5.00000	5.0435
	77 para-Isopropyl Toluene	119	18.510	18.518	(0.993)	72583	5.00000	4.7273
	78 1,3-Dichlorobenzene	146	18.579	18.578	(0.997)	61659	5.00000	5.1388

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG12.D
Report Date: 17-Mar-2006 12:38

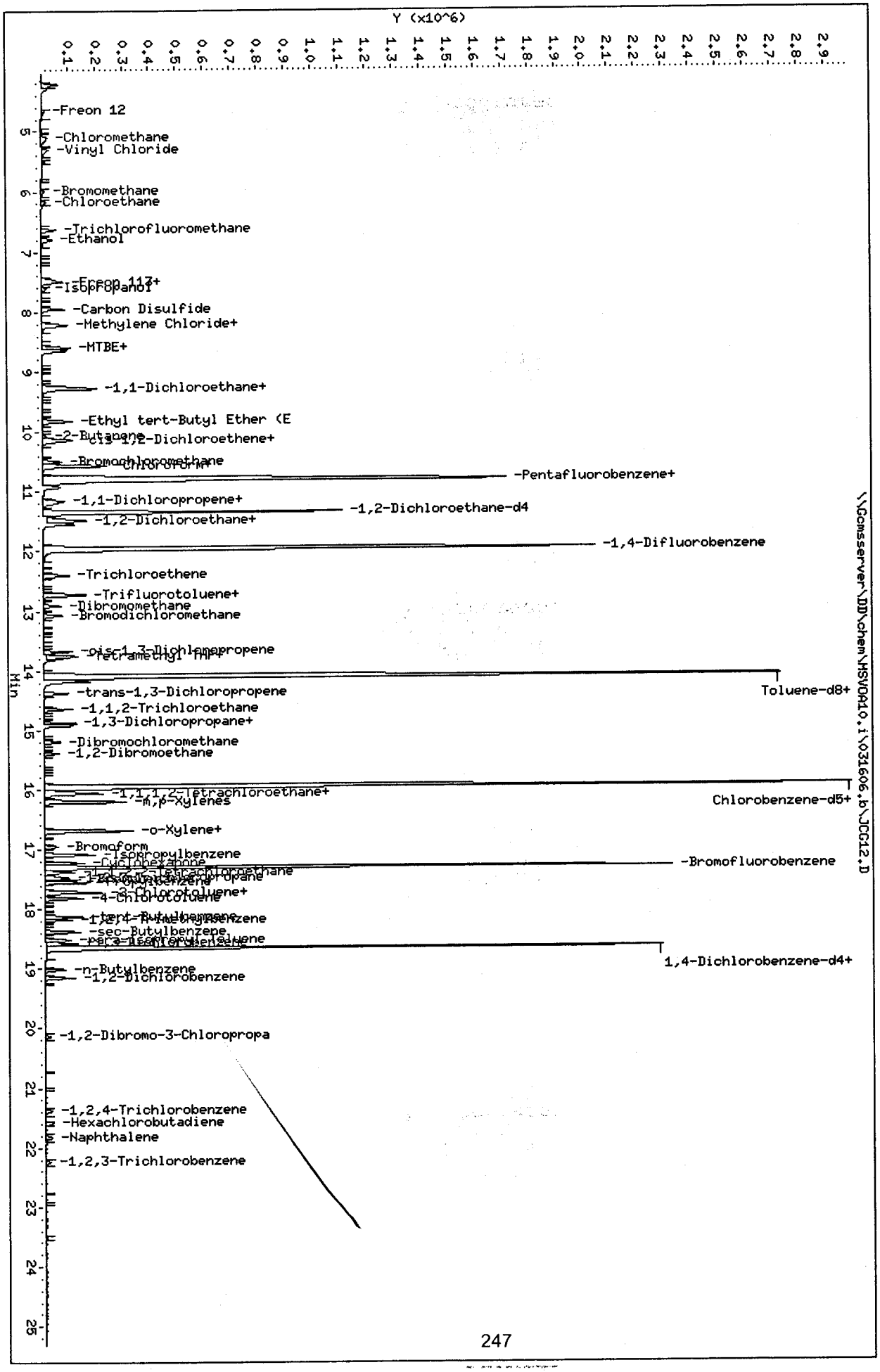
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 79 1,4-Dichlorobenzene-d4	152	18.638	18.646	(1.000)	713347	50.0000	
80 1,4-Dichlorobenzene	146	18.667	18.676	(1.002)	61165	5.00000	5.2024
81 n-Butylbenzene	91	19.012	19.011	(1.020)	57702	5.00000	4.6593
82 1,2-Dichlorobenzene	146	19.150	19.149	(1.027)	59863	5.00000	5.2423
83 1,2-Dibromo-3-Chloropropane	75	20.134	20.123	(1.080)	8727	5.00000	4.2406
84 1,2,4-Trichlorobenzene	180	21.375	21.374	(1.147)	12355	5.00000	4.5830
85 Hexachlorobutadiene	225	21.582	21.590	(1.158)	7489	5.00000	4.3255
86 Naphthalene	128	21.818	21.817	(1.171)	35868	5.00000	4.1968
87 1,2,3-Trichlorobenzene	180	22.241	22.230	(1.193)	11200	5.00000	4.5626

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Ccmsserver\DD\chem\MSVOA10.i\031606.b\JCG12.D
Date : 16-MAR-2006 15:49
Client ID: DYNA P&T
Sample Info: ICAL,S2783,0.005/500,S2844,0.005/500
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG13.D
Report Date: 17-Mar-2006 12:38

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG13.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-MAR-2006 16:25 MS Autotune Date: 27-JUL-1998 20:19
Operator : VOC Inst ID: MSVOA10.i
Smp Info : ICAL,S2783,0.002/100,S2844,0.002/100
Misc Info : S2410,0.001/100,10PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\826GOX10.m
Meth Date : 17-Mar-2006 12:29 target Quant Type: ISTD
Cal Date : 16-MAR-2006 16:25 Cal File: JCG13.D
Als bottle: 13 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.646	4.646	(0.431)	66603	10.0000	8.7242
2 Chloromethane	50	5.118	5.119	(0.475)	132825	10.0000	9.8078
3 Vinyl Chloride	62	5.305	5.306	(0.493)	109142	10.0000	9.1837
4 Bromomethane	94	5.985	5.985	(0.556)	44667	10.0000	9.1475
5 Chloroethane	64	6.172	6.163	(0.573)	70628	10.0000	9.5170
6 Trichlorofluoromethane	101	6.635	6.635	(0.616)	97851	10.0000	8.9498
7 Ethanol	45	6.782	6.783	(0.630)	143364	1000.00	1019.4987
8 Freon 113	101	7.462	7.472	(0.693)	65814	10.0000	10.1204
9 Acetone	43	7.491	7.482	(0.696)	36262	10.0000	10.6535
10 1,1-Dichloroethene	96	7.501	7.502	(0.697)	72024	10.0000	10.0969
11 Isopropanol	45	7.599	7.600	(0.706)	67788	100.000	106.7642
12 Carbon Disulfide	76	7.944	7.954	(0.738)	322390	10.0000	9.8427
13 Methylene Chloride	84	8.210	8.210	(0.762)	108463	10.0000	9.7613
14 tert-Butyl Alcohol (TBA)	59	8.220	8.220	(0.763)	93642	100.000	106.3691
15 MTBE	73	8.604	8.603	(0.799)	280325	10.0000	10.2418
16 trans-1,2-Dichloroethene	96	8.653	8.653	(0.803)	89983	10.0000	9.9738
18 Vinyl Acetate	43	9.244	9.244	(0.858)	244650	10.0000	10.0981(M)
19 1,1-Dichloroethane	63	9.273	9.274	(0.861)	168562	10.0000	10.2350
20 Isopropyl Ether (DIPE)	45	9.283	9.284	(0.862)	371672	10.0000	10.1756
21 Ethyl tert-Butyl Ether (ETBE)	59	9.815	9.825	(0.911)	285306	10.0000	10.3246
22 2-Butanone	43	10.061	10.052	(0.934)	51421	10.0000	9.9225
23 cis-1,2-Dichloroethene	96	10.120	10.120	(0.940)	100597	10.0000	9.9326

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG13.D
Report Date: 17-Mar-2006 12:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	24 2,2-Dichloropropane	77	10.149	10.160	(0.942)	101785	10.0000	10.0595
	25 Bromochloromethane	128	10.494	10.495	(0.974)	50654	10.0000	10.1962
	26 Chloroform	83	10.553	10.554	(0.980)	156302	10.0000	10.1341
	27 Tetrahydrofuran	42	10.563	10.563	(0.981)	310179	100.000	103.2778
*	28 Pentafluorobenzene	168	10.770	10.780	(1.000)	1243594	50.0000	
$	29 Dibromofluoromethane	113	10.799	10.800	(1.003)	910145	50.0000	50.6103
	30 1,1,1-Trichloroethane	97	10.927	10.938	(1.015)	100314	10.0000	10.0022
	31 1,1-Dichloropropene	75	11.154	11.164	(0.933)	107450	10.0000	9.9376
	32 Carbon Tetrachloride	117	11.203	11.213	(0.937)	73309	10.0000	9.8924
$	33 1,2-Dichloroethane-d4	65	11.341	11.341	(0.949)	966332	50.0000	50.4265
	34 1,2-Dichloroethane	62	11.459	11.459	(0.959)	118334	10.0000	10.0010
	35 Benzene	78	11.488	11.499	(0.961)	352012	10.0000	10.0204
	36 Methyl tert-Amyl Ether (TAME)	73	11.547	11.548	(0.966)	269753	10.0000	10.1836
*	37 1,4-Difluorobenzene	114	11.951	11.962	(1.000)	2545398	50.0000	
	38 Trichloroethene	95	12.414	12.414	(1.039)	86906	10.0000	9.8354
$	39 Trifluorotoluene	146	12.719	12.720	(1.064)	88593	10.0000	10.0711
	40 1,2-Dichloropropane	63	12.729	12.739	(1.065)	108911	10.0000	10.3320
	41 Dibromomethane	93	12.906	12.907	(1.080)	71225	10.0000	10.4678
	42 Bromodichloromethane	83	13.073	13.074	(1.094)	118613	10.0000	10.2218
	44 cis-1,3-Dichloropropene	75	13.674	13.675	(1.144)	156813	10.0000	10.2782
	45 Tetramethyl THF	43	13.753	13.763	(1.151)	212999	10.0000	10.4438
	46 4-Methyl-2-Pentanone	43	13.812	13.812	(1.156)	112386	10.0000	10.0343
$	47 Toluene-d8	98	14.087	14.088	(1.179)	2691942	50.0000	49.6416
	48 Toluene	92	14.176	14.177	(1.186)	199840	10.0000	9.9673
	49 trans-1,3-Dichloropropene	75	14.383	14.383	(1.203)	134036	10.0000	10.3350
	50 1,1,2-Trichloroethane	85	14.649	14.649	(1.226)	50591	10.0000	10.1950
	51 1,3-Dichloropropane	76	14.875	14.876	(0.933)	156701	10.0000	10.4057
	52 2-Hexanone	43	14.895	14.886	(0.935)	72462	10.0000	10.5980
	53 Tetrachloroethene	166	14.924	14.925	(0.936)	60294	10.0000	9.8465
	54 Dibromochloromethane	129	15.200	15.201	(0.954)	89636	10.0000	10.3645
	55 1,2-Dibromoethane	107	15.387	15.388	(1.287)	99159	10.0000	10.3033
*	56 Chlorobenzene-d5	117	15.938	15.939	(1.000)	2212196	50.0000	
	57 Chlorobenzene	112	15.978	15.978	(1.002)	228979	10.0000	10.1235
	58 1,1,1,2-Tetrachloroethane	131	16.047	16.047	(1.007)	72556	10.0000	10.0937
	59 Ethylbenzene	91	16.066	16.067	(1.008)	358639	10.0000	9.9615
	60 m,p-Xylenes	106	16.204	16.195	(1.017)	249578	20.0000	20.0285
	61 o-Xylene	106	16.687	16.687	(1.047)	125185	10.0000	9.9756
	62 Styrene	104	16.687	16.687	(1.047)	216362	10.0000	10.0760
	63 Bromoform	173	16.952	16.953	(1.064)	55611	10.0000	9.8147
	64 Isopropylbenzene	105	17.080	17.081	(0.916)	297397	10.0000	10.0250
	65 Cyclohexanone_	55	17.218	17.219	(0.923)	185069	10.0000	13.0513
$	66 Bromofluorobenzene	95	17.287	17.288	(0.927)	1086519	50.0000	50.2323
	67 1,1,2,2-Tetrachloroethane	83	17.376	17.376	(0.932)	133528	10.0000	10.4787
	68 1,2,3-Trichloropropane	75	17.464	17.465	(0.937)	107727	10.0000	9.7632
	69 Bromobenzene	156	17.514	17.504	(0.939)	77165	10.0000	10.1845
	70 Propylbenzene	91	17.543	17.544	(0.941)	338607	10.0000	9.9258
	71 2-Chlorotoluene	91	17.701	17.701	(0.949)	247268	10.0000	9.8973
	72 1,3,5-Trimethylbenzene	105	17.720	17.721	(0.950)	177825	10.0000	9.7580
	73 4-Chlorotoluene	91	17.809	17.810	(0.955)	215968	10.0000	9.7664
	74 tert-Butylbenzene	119	18.124	18.125	(0.972)	184389	10.0000	9.9095(M)
	75 1,2,4-Trimethylbenzene	105	18.173	18.174	(0.975)	157448	10.0000	9.5656
	76 sec-Butylbenzene	105	18.380	18.371	(0.986)	250057	10.0000	9.8528
	77 para-Isopropyl Toluene	119	18.518	18.518	(0.993)	158845	10.0000	9.6674
	78 1,3-Dichlorobenzene	146	18.577	18.578	(0.996)	129991	10.0000	10.1236

3/17/06

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG13.D
Report Date: 17-Mar-2006 12:38

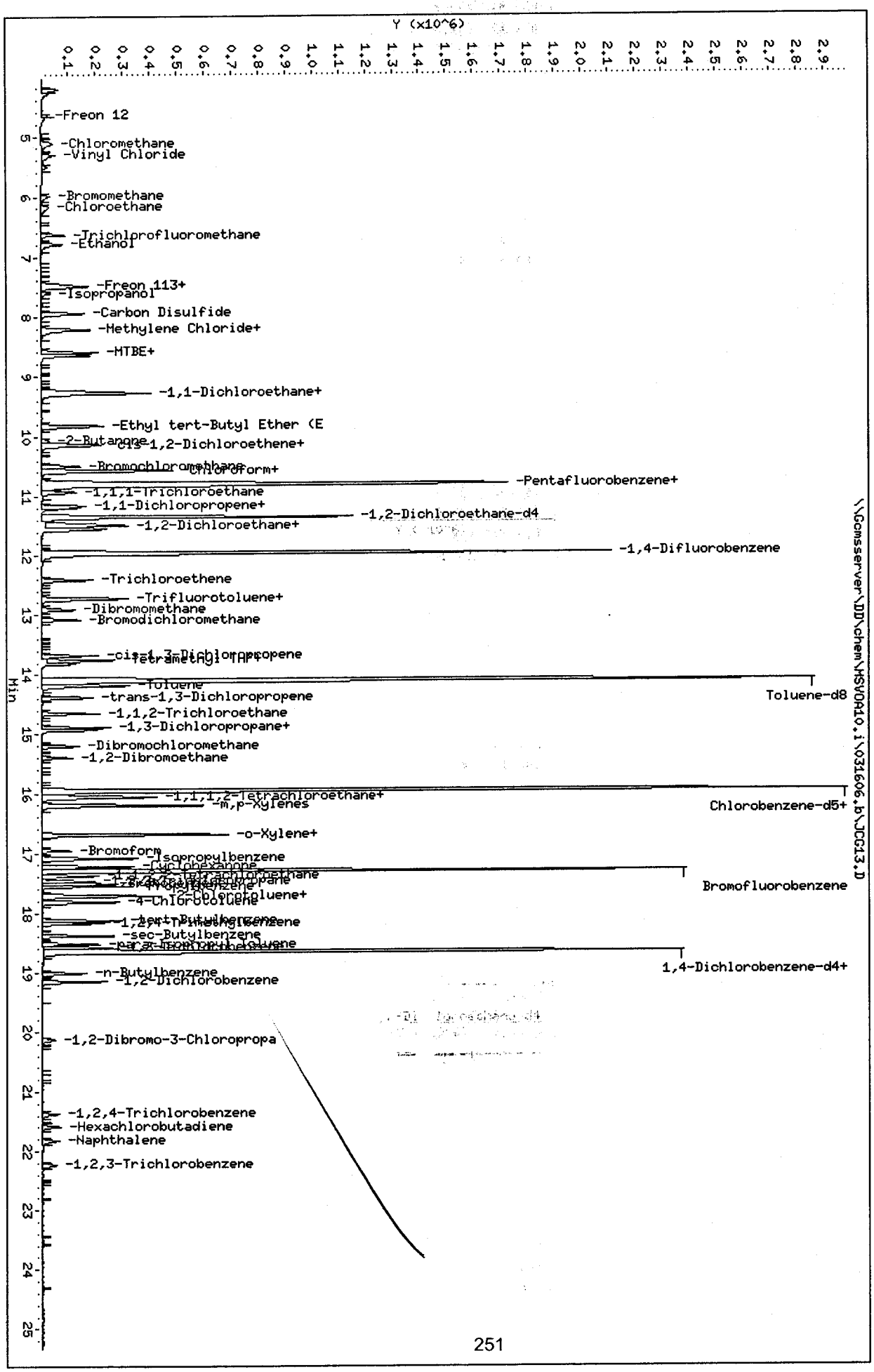
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 79 1,4-Dichlorobenzene-d4	152	18.646	18.646	(1.000)	763389	50.0000	
80 1,4-Dichlorobenzene	146	18.675	18.676	(1.002)	124966	10.0000	9.9324
81 n-Butylbenzene	91	19.010	19.011	(1.020)	125746	10.0000	9.4881
82 1,2-Dichlorobenzene	146	19.148	19.149	(1.027)	122798	10.0000	10.0488
83 1,2-Dibromo-3-Chloropropane	75	20.132	20.123	(1.080)	20657	10.0000	10.4730
84 1,2,4-Trichlorobenzene	180	21.373	21.374	(1.146)	28493	10.0000	9.1081
85 Hexachlorobutadiene	225	21.590	21.590	(1.158)	16907	10.0000	9.9857
86 Naphthalene	128	21.826	21.817	(1.171)	85588	10.0000	9.3579
87 1,2,3-Trichlorobenzene	180	22.229	22.230	(1.192)	27627	10.0000	9.2266

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG13.D
Date : 16-MAR-2006 16:25
Client ID: DYNA P&T
Sample Info: ICAL,S2783,0.002/100,S2844,0.002/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG14.D
Report Date: 17-Mar-2006 12:38

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG14.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-MAR-2006 17:00 MS Autotune Date: 27-JUL-1998 20:19
Operator : VOC Inst ID: MSVOA10.i
Smp Info : ICAL,S2783,0.004/100,S2844,0.004/100
Misc Info : S2410,0.002/100,20PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\826GOX10.m
Meth Date : 17-Mar-2006 12:29 target Quant Type: ISTD
Cal Date : 16-MAR-2006 17:00 Cal File: JCG14.D
Als bottle: 14 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.647	4.646	(0.431)	138477	20.0000	18.0812
2 Chloromethane	50	5.109	5.119	(0.474)	282850	20.0000	20.8192
3 Vinyl Chloride	62	5.306	5.306	(0.493)	232908	20.0000	19.5354
4 Bromomethane	94	5.986	5.985	(0.556)	110842	20.0000	20.7793
5 Chloroethane	64	6.173	6.163	(0.573)	151500	20.0000	20.3494
6 Trichlorofluoromethane	101	6.635	6.635	(0.616)	197979	20.0000	18.0502
7 Ethanol	45	6.783	6.783	(0.630)	293197	2000.00	2078.3520
8 Freon 113	101	7.462	7.472	(0.693)	156034	20.0000	24.4124
9 Acetone	43	7.492	7.482	(0.696)	62447	20.0000	18.2880
10 1,1-Dichloroethene	96	7.502	7.502	(0.697)	153344	20.0000	21.4285
11 Isopropanol	45	7.610	7.600	(0.707)	136434	200.000	214.1947
12 Carbon Disulfide	76	7.945	7.954	(0.738)	710054	20.0000	21.6091
13 Methylene Chloride	84	8.211	8.210	(0.762)	226949	20.0000	20.3595
14 tert-Butyl Alcohol (TBA)	59	8.220	8.220	(0.763)	192089	200.000	217.5006
15 MTBE	73	8.604	8.603	(0.799)	572263	20.0000	20.8413
16 trans-1,2-Dichloroethene	96	8.654	8.653	(0.803)	190708	20.0000	21.0708
17 Hexane_	57	9.284	9.284	(0.862)	1835	20.0000	15.4589
18 Vinyl Acetate	43	9.235	9.244	(0.857)	547766	20.0000	21.9728 (M)
19 1,1-Dichloroethane	63	9.274	9.274	(0.861)	357360	20.0000	21.6296
20 Isopropyl Ether (DIPE)	45	9.284	9.284	(0.862)	778004	20.0000	21.2322
21 Ethyl tert-Butyl Ether (ETBE)	59	9.815	9.825	(0.911)	585273	20.0000	21.1123
22 2-Butanone	43	10.062	10.052	(0.934)	107958	20.0000	20.7657

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Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG14.D
Report Date: 17-Mar-2006 12:38

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 cis-1,2-Dichloroethene	96	10.121	10.120	(0.940)	217399	20.0000	21.3968
24 2,2-Dichloropropane	77	10.150	10.160	(0.942)	212596	20.0000	20.9440
25 Bromochloromethane	128	10.495	10.495	(0.974)	108286	20.0000	21.7275
26 Chloroform	83	10.554	10.554	(0.980)	332137	20.0000	21.4660
27 Tetrahydrofuran	42	10.564	10.563	(0.981)	634479	200.000	210.5837
* 28 Pentafluorobenzene	168	10.770	10.780	(1.000)	1247572	50.0000	
$ 29 Dibromofluoromethane	113	10.800	10.800	(1.003)	900868	50.0000	49.9347
30 1,1,1-Trichloroethane	97	10.928	10.938	(1.015)	218603	20.0000	21.7272
31 1,1-Dichloropropene	75	11.164	11.164	(0.934)	233356	20.0000	21.4845
32 Carbon Tetrachloride	117	11.204	11.213	(0.937)	163765	20.0000	21.9987
$ 33 1,2-Dichloroethane-d4	65	11.341	11.341	(0.949)	959599	50.0000	49.8486
34 1,2-Dichloroethane	62	11.460	11.459	(0.959)	246423	20.0000	20.7322
35 Benzene	78	11.489	11.499	(0.961)	747384	20.0000	21.1789
36 Methyl tert-Amyl Ether (TAME)	73	11.548	11.548	(0.966)	553159	20.0000	20.7881
* 37 1,4-Difluorobenzene	114	11.952	11.962	(1.000)	2556966	50.0000	
38 Trichloroethene	95	12.405	12.414	(1.038)	188784	20.0000	21.2686
$ 39 Trifluorotoluene	146	12.720	12.720	(1.064)	199487	20.0000	22.5748
40 1,2-Dichloropropane	63	12.730	12.739	(1.065)	222804	20.0000	21.0411
41 Dibromomethane	93	12.907	12.907	(1.080)	146378	20.0000	21.4157
42 Bromodichloromethane	83	13.074	13.074	(1.094)	245980	20.0000	21.1021
43 2-Chloroethylvinylether	63	13.675	13.684	(1.144)	1457	20.0000	18.5161
44 cis-1,3-Dichloropropene	75	13.675	13.675	(1.144)	322656	20.0000	21.0527
45 Tetramethyl THF	43	13.753	13.763	(1.151)	437262	20.0000	21.3430
46 4-Methyl-2-Pentanone	43	13.813	13.812	(1.156)	231523	20.0000	20.5780
$ 47 Toluene-d8	98	14.088	14.088	(1.179)	2723456	50.0000	49.9955
48 Toluene	92	14.177	14.177	(1.186)	427813	20.0000	21.2413
49 trans-1,3-Dichloropropene	75	14.384	14.383	(1.203)	280727	20.0000	21.5479
50 1,1,2-Trichloroethane	85	14.649	14.649	(1.226)	102167	20.0000	20.4955
51 1,3-Dichloropropane	76	14.876	14.876	(0.933)	315155	20.0000	20.7480
52 2-Hexanone	43	14.896	14.886	(0.935)	148182	20.0000	21.4862
53 Tetrachloroethene	166	14.925	14.925	(0.936)	135318	20.0000	21.9086
54 Dibromochloromethane	129	15.201	15.201	(0.954)	181552	20.0000	20.8124
55 1,2-Dibromoethane	107	15.388	15.388	(1.287)	202770	20.0000	20.9740
* 56 Chlorobenzene-d5	117	15.939	15.939	(1.000)	2231370	50.0000	
57 Chlorobenzene	112	15.979	15.978	(1.002)	481051	20.0000	21.0853
58 1,1,1,2-Tetrachloroethane	131	16.047	16.047	(1.007)	153842	20.0000	21.2180
59 Ethylbenzene	91	16.067	16.067	(1.008)	778592	20.0000	21.4402
60 m,p-Xylenes	106	16.205	16.195	(1.017)	544884	40.0000	43.3509
61 o-Xylene	106	16.687	16.687	(1.047)	265390	20.0000	20.9665
62 Styrene	104	16.687	16.687	(1.047)	462412	20.0000	21.3497
63 Bromoform	173	16.953	16.953	(1.064)	116663	20.0000	20.4129
64 Isopropylbenzene	105	17.081	17.081	(0.916)	651922	20.0000	21.5045
65 Cyclohexanone_	55	17.219	17.219	(0.923)	155098	20.0000	10.7032
$ 66 Bromofluorobenzene	95	17.288	17.288	(0.927)	1090424	50.0000	49.3320
67 1,1,2,2-Tetrachloroethane	83	17.377	17.376	(0.932)	276384	20.0000	21.2245
68 1,2,3-Trichloropropane	75	17.465	17.465	(0.937)	219303	20.0000	19.4491
69 Bromobenzene	156	17.514	17.504	(0.939)	164501	20.0000	21.2459
70 Propylbenzene	91	17.544	17.544	(0.941)	758793	20.0000	21.7661
71 2-Chlorotoluene	91	17.701	17.701	(0.949)	540582	20.0000	21.1738
72 1,3,5-Trimethylbenzene	105	17.721	17.721	(0.950)	405902	20.0000	21.7960
73 4-Chlorotoluene	91	17.810	17.810	(0.955)	481023	20.0000	21.2862
74 tert-Butylbenzene	119	18.125	18.125	(0.972)	415993	20.0000	21.8772(M)
75 1,2,4-Trimethylbenzene	105	18.174	18.174	(0.975)	360086	20.0000	21.4077
76 sec-Butylbenzene	105	18.381	18.371	(0.986)	576107	20.0000	22.2132

3/17/06

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG14.D
Report Date: 17-Mar-2006 12:38

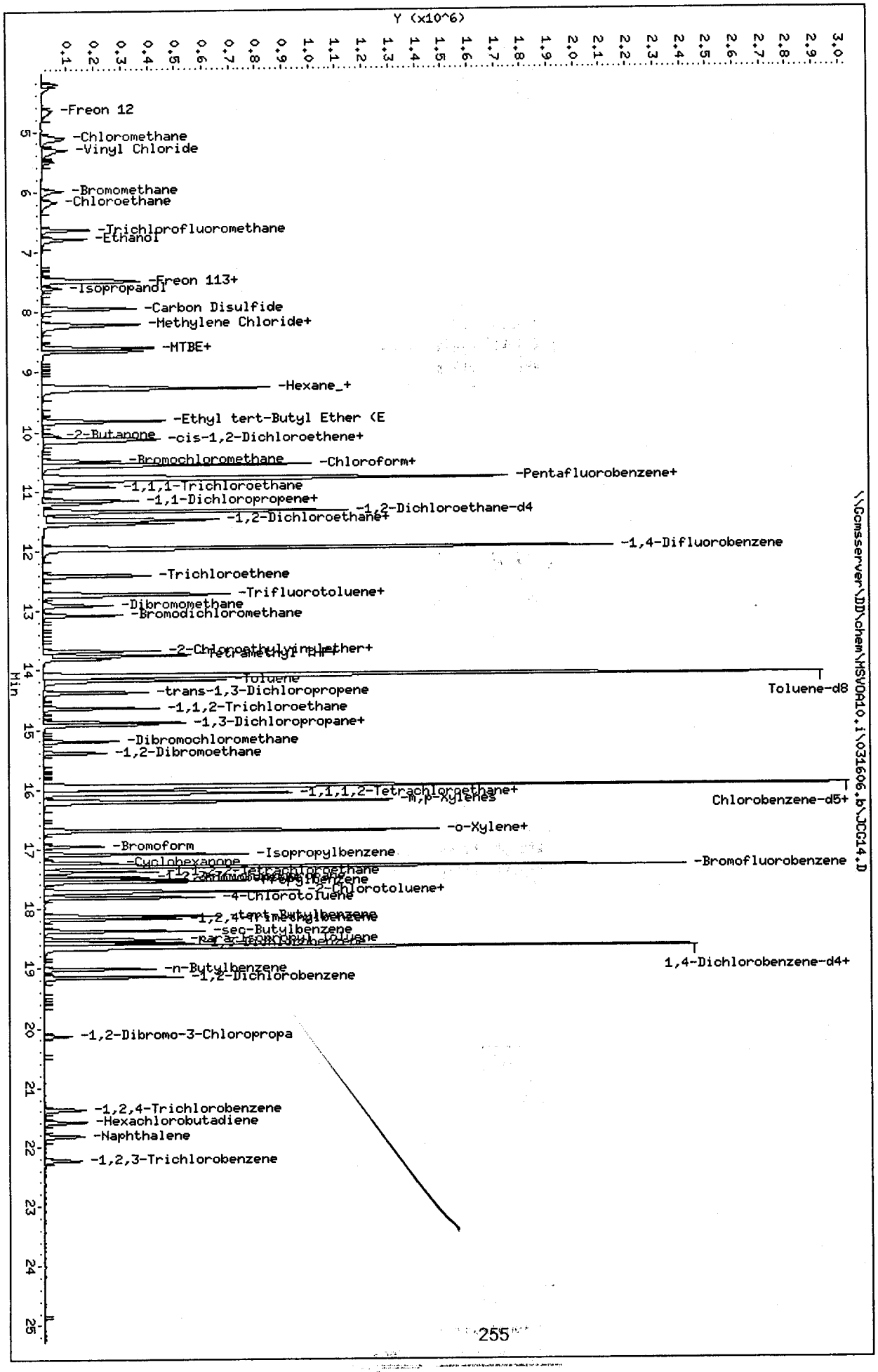
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 para-Isopropyl Toluene	119	18.519	18.518	(0.993)	374340	20.0000	22.2940
78 1,3-Dichlorobenzene	146	18.578	18.578	(0.996)	275479	20.0000	20.9941
* 79 1,4-Dichlorobenzene-d4	152	18.647	18.646	(1.000)	780115	50.0000	
80 1,4-Dichlorobenzene	146	18.676	18.676	(1.002)	265320	20.0000	20.6357
81 n-Butylbenzene	91	19.011	19.011	(1.020)	309572	20.0000	22.8579
82 1,2-Dichlorobenzene	146	19.149	19.149	(1.027)	269814	20.0000	21.6060
83 1,2-Dibromo-3-Chloropropane	75	20.133	20.123	(1.080)	40910	20.0000	21.1428
84 1,2,4-Trichlorobenzene	180	21.374	21.374	(1.146)	73030	20.0000	21.5391
85 Hexachlorobutadiene	225	21.590	21.590	(1.158)	42766	20.0000	25.3125
86 Naphthalene	128	21.817	21.817	(1.170)	195014	20.0000	20.8650
87 1,2,3-Trichlorobenzene	180	22.230	22.230	(1.192)	68318	20.0000	20.7232

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCC14.D
Date : 16-MAR-2006 17:00
Client ID: DYNA P&T
Sample Info: ICAL,S2783,0.004/100,S2844,0.004/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG15.D
Report Date: 17-Mar-2006 12:38

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG15.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-MAR-2006 17:35 MS Autotune Date: 27-JUL-1998 20:19
Operator : VOC Inst ID: MSVOA10.i
Smp Info : ICAL,S2783,0.01/100,S2844,0.01/100
Misc Info : S2410,0.005/100,50PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\826GOX10.m
Meth Date : 17-Mar-2006 12:29 target Quant Type: ISTD
Cal Date : 16-MAR-2006 17:35 Cal File: JCG15.D
Als bottle: 15 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.651	4.646	(0.432)	384326	50.0000	51.1765
2 Chloromethane	50	5.123	5.119	(0.476)	648578	50.0000	48.6846
3 Vinyl Chloride	62	5.310	5.306	(0.493)	563980	50.0000	48.2419
4 Bromomethane	94	5.990	5.985	(0.556)	273859	50.0000	48.5548
5 Chloroethane	64	6.167	6.163	(0.572)	345056	50.0000	47.2663
6 Trichlorofluoromethane	101	6.629	6.635	(0.615)	522889	50.0000	48.6178
7 Ethanol	45	6.777	6.783	(0.629)	735521	5000.00	5317.1181
8 Freon 113	101	7.466	7.472	(0.693)	334905	50.0000	51.2585
9 Acetone	43	7.486	7.482	(0.695)	177566	50.0000	53.0319
10 1,1-Dichloroethene	96	7.496	7.502	(0.696)	333998	50.0000	47.5983
11 Isopropanol	45	7.604	7.600	(0.706)	340506	500.000	545.1707
12 Carbon Disulfide	76	7.948	7.954	(0.738)	1553369	50.0000	48.2106
13 Methylene Chloride	84	8.215	8.210	(0.762)	508804	50.0000	46.5492
14 tert-Butyl Alcohol (TBA)	59	8.224	8.220	(0.763)	462087	500.000	533.5846
15 MTBE	73	8.599	8.603	(0.798)	1356980	50.0000	50.3993
16 trans-1,2-Dichloroethene	96	8.648	8.653	(0.803)	419839	50.0000	47.3061
17 Hexane_	57	9.278	9.284	(0.861)	6841	50.0000	58.7741
18 Vinyl Acetate	43	9.238	9.244	(0.857)	1211261	50.0000	48.9755(M)
19 1,1-Dichloroethane	63	9.268	9.274	(0.860)	766610	50.0000	47.3194
20 Isopropyl Ether (DIPE)	45	9.278	9.284	(0.861)	1761267	50.0000	49.0186
21 Ethyl tert-Butyl Ether (ETBE)	59	9.819	9.825	(0.911)	1335435	50.0000	49.1273
22 2-Butanone	43	10.056	10.052	(0.933)	276895	50.0000	54.3163

3/17/06

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG15.D
Report Date: 17-Mar-2006 12:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	10.125	10.120	(0.940)	476752	50.0000	47.8526
	24 2,2-Dichloropropane	77	10.154	10.160	(0.942)	464463	50.0000	46.6636
	25 Bromochloromethane	128	10.489	10.495	(0.974)	248006	50.0000	50.7484
	26 Chloroform	83	10.558	10.554	(0.980)	724135	50.0000	47.7283
	27 Tetrahydrofuran	42	10.568	10.563	(0.981)	1479567	500.000	500.7995
*	28 Pentafluorobenzene	168	10.774	10.780	(1.000)	1223331	50.0000	
$	29 Dibromofluoromethane	113	10.794	10.800	(1.002)	886760	50.0000	50.1267
	30 1,1,1-Trichloroethane	97	10.932	10.938	(1.015)	467400	50.0000	47.3760
	31 1,1-Dichloropropene	75	11.158	11.164	(0.933)	500499	50.0000	46.5040
	32 Carbon Tetrachloride	117	11.208	11.213	(0.937)	353501	50.0000	47.9234
$	33 1,2-Dichloroethane-d4	65	11.345	11.341	(0.949)	948951	50.0000	49.7493
	34 1,2-Dichloroethane	62	11.463	11.459	(0.959)	576776	50.0000	48.9724
	35 Benzene	78	11.493	11.499	(0.961)	1636602	50.0000	46.8039
	36 Methyl tert-Amyl Ether (TAME)	73	11.552	11.548	(0.966)	1300178	50.0000	49.3115
*	37 1,4-Difluorobenzene	114	11.956	11.962	(1.000)	2533641	50.0000	
	38 Trichloroethene	95	12.409	12.414	(1.038)	407919	50.0000	46.3797
$	39 Trifluorotoluene	146	12.724	12.720	(1.064)	423462	50.0000	48.3620
	40 1,2-Dichloropropane	63	12.734	12.739	(1.065)	504246	50.0000	48.0582
	41 Dibromomethane	93	12.911	12.907	(1.080)	343610	50.0000	50.7343
	42 Bromodichloromethane	83	13.078	13.074	(1.094)	571821	50.0000	49.5069
	43 2-Chloroethylvinylether	63	13.679	13.684	(1.144)	4075	50.0000	52.2635
	44 cis-1,3-Dichloropropene	75	13.679	13.675	(1.144)	748591	50.0000	49.2939
	45 Tetramethyl THF	43	13.757	13.763	(1.151)	981071	50.0000	48.3276
	46 4-Methyl-2-Pentanone	43	13.807	13.812	(1.155)	615319	50.0000	55.1936
$	47 Toluene-d8	98	14.082	14.088	(1.178)	2681894	50.0000	49.6858
	48 Toluene	92	14.181	14.177	(1.186)	944707	50.0000	47.3375
	49 trans-1,3-Dichloropropene	75	14.378	14.383	(1.203)	657461	50.0000	50.9298
	50 1,1,2-Trichloroethane	85	14.644	14.649	(1.225)	244228	50.0000	49.4451
	51 1,3-Dichloropropane	76	14.880	14.876	(0.933)	748640	50.0000	50.0453
	52 2-Hexanone	43	14.890	14.886	(0.934)	367279	50.0000	54.0754
	53 Tetrachloroethene	166	14.919	14.925	(0.936)	292082	50.0000	48.0180
	54 Dibromochloromethane	129	15.205	15.201	(0.954)	437219	50.0000	50.8931
	55 1,2-Dibromoethane	107	15.392	15.388	(1.287)	477622	50.0000	49.8588
*	56 Chlorobenzene-d5	117	15.943	15.939	(1.000)	2197520	50.0000	
	57 Chlorobenzene	112	15.982	15.978	(1.002)	1074326	50.0000	47.8150
	58 1,1,1,2-Tetrachloroethane	131	16.042	16.047	(1.006)	359250	50.0000	50.3113
	59 Ethylbenzene	91	16.071	16.067	(1.008)	1686847	50.0000	47.1665
	60 m,p-Xylenes	106	16.199	16.195	(1.016)	1198447	100.000	96.8171
	61 o-Xylene	106	16.682	16.687	(1.046)	596603	50.0000	47.8593
	62 Styrene	104	16.691	16.687	(1.047)	1062137	50.0000	49.7945
	63 Bromoform	173	16.947	16.953	(1.063)	280439	50.0000	49.8252
	64 Isopropylbenzene	105	17.085	17.081	(0.917)	1404402	50.0000	45.2864
	65 Cyclohexanone_	55	17.223	17.219	(0.924)	941832	50.0000	63.5367
$	66 Bromofluorobenzene	95	17.292	17.288	(0.928)	1072288	50.0000	47.4227
	67 1,1,2,2-Tetrachloroethane	83	17.381	17.376	(0.932)	648257	50.0000	48.6646
	68 1,2,3-Trichloropropane	75	17.459	17.465	(0.937)	536873	50.0000	46.5445
	69 Bromobenzene	156	17.509	17.504	(0.939)	380046	50.0000	47.9827
	70 Propylbenzene	91	17.548	17.544	(0.941)	1648795	50.0000	46.2346
	71 2-Chlorotoluene	91	17.696	17.701	(0.949)	1212052	50.0000	46.4089
	72 1,3,5-Trimethylbenzene	105	17.725	17.721	(0.951)	911212	50.0000	47.8319
	73 4-Chlorotoluene	91	17.814	17.810	(0.956)	1089071	50.0000	47.1119
	74 tert-Butylbenzene	119	18.129	18.125	(0.973)	912937	50.0000	46.9341(M)
	75 1,2,4-Trimethylbenzene	105	18.168	18.174	(0.975)	858009	50.0000	49.8652
	76 sec-Butylbenzene	105	18.375	18.371	(0.986)	1243420	50.0000	46.8671

63/17/06

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG15.D
Report Date: 17-Mar-2006 12:38

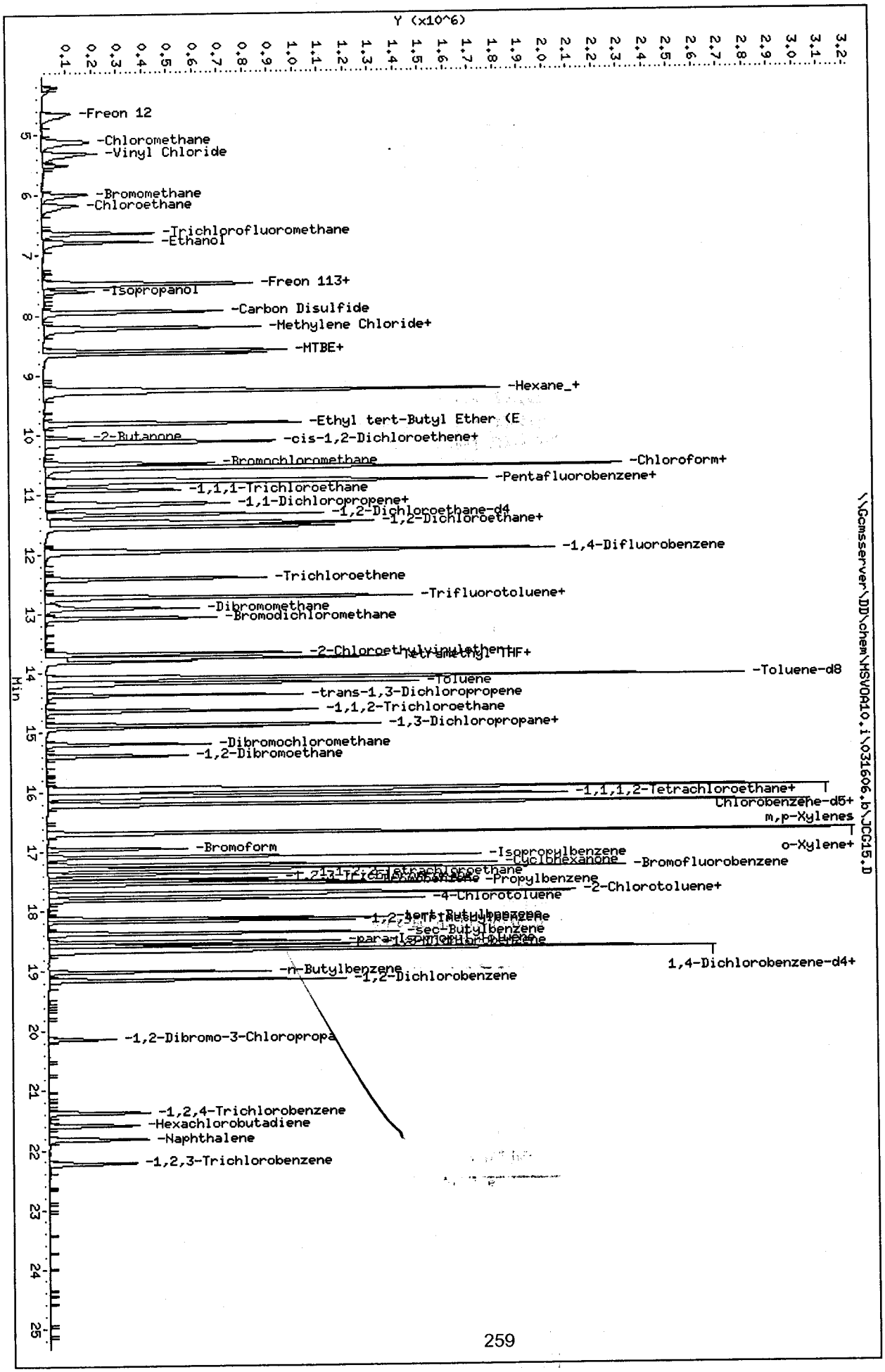
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 para-Isopropyl Toluene	119	18.513	18.518	(0.993)	842886	50.0000	49.0720
78 1,3-Dichlorobenzene	146	18.572	18.578	(0.996)	633714	50.0000	47.2110
* 79 1,4-Dichlorobenzene-d4	152	18.641	18.646	(1.000)	798026	50.0000	
80 1,4-Dichlorobenzene	146	18.670	18.676	(1.002)	626715	50.0000	47.6499
81 n-Butylbenzene	91	19.015	19.011	(1.020)	699976	50.0000	50.5243
82 1,2-Dichlorobenzene	146	19.153	19.149	(1.027)	633143	50.0000	49.5626
83 1,2-Dibromo-3-Chloropropane	75	20.127	20.123	(1.080)	102028	50.0000	52.8433
84 1,2,4-Trichlorobenzene	180	21.368	21.374	(1.146)	181089	50.0000	49.2009
85 Hexachlorobutadiene	225	21.584	21.590	(1.158)	89561	50.0000	50.2816
86 Naphthalene	128	21.821	21.817	(1.171)	511543	50.0000	53.5028
87 1,2,3-Trichlorobenzene	180	22.234	22.230	(1.193)	176308	50.0000	49.2244

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG15.D
Date : 16-MAR-2006 17:35
Client ID: DYNA P&T
Sample Info: ICAL,S2783,0.01/100,S2844,0.01/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG16.D
Report Date: 17-Mar-2006 12:38

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG16.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-MAR-2006 18:10 MS Autotune Date: 27-JUL-1998 20:19
Operator : VOC Inst ID: MSVOA10.i
Smp Info : ICAL,S2783,0.015/100,S2844,0.015/100
Misc Info : S2410,0.0075/100,75PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\826GOX10.m
Meth Date : 17-Mar-2006 12:29 target Quant Type: ISTD
Cal Date : 16-MAR-2006 18:10 Cal File: JCG16.D
Als bottle: 16 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.646	4.646	(0.431)	673220	75.0000	88.9629
2 Chloromethane	50	5.118	5.119	(0.475)	1022702	75.0000	76.1833
3 Vinyl Chloride	62	5.305	5.306	(0.492)	962610	75.0000	81.7133
4 Bromomethane	94	5.985	5.985	(0.555)	463208	75.0000	76.5464
5 Chloroethane	64	6.172	6.163	(0.573)	564111	75.0000	76.6845
6 Trichlorofluoromethane	101	6.635	6.635	(0.615)	936277	75.0000	86.3915
7 Ethanol	45	6.782	6.783	(0.629)	1056263	7500.00	7577.6448
8 Freon 113	101	7.462	7.472	(0.692)	489034	75.0000	70.8025
9 Acetone	43	7.481	7.482	(0.694)	282722	75.0000	83.7950
10 1,1-Dichloroethene	96	7.501	7.502	(0.696)	524962	75.0000	74.2433
11 Isopropanol	45	7.599	7.600	(0.705)	503406	750.000	799.8473
12 Carbon Disulfide	76	7.944	7.954	(0.737)	2386001	75.0000	73.4885
13 Methylene Chloride	84	8.210	8.210	(0.762)	747539	75.0000	67.8698
14 tert-Butyl Alcohol (TBA)	59	8.220	8.220	(0.763)	692226	750.000	793.2470
15 MTBE	73	8.604	8.603	(0.798)	2039269	75.0000	75.1635
16 trans-1,2-Dichloroethene	96	8.653	8.653	(0.803)	645486	75.0000	72.1776
17 Hexane_	57	9.293	9.284	(0.862)	9741	75.0000	83.0521
18 Vinyl Acetate	43	9.234	9.244	(0.857)	1680247	75.0000	67.2483(M)
19 1,1-Dichloroethane	63	9.273	9.274	(0.860)	1157627	75.0000	70.9111
20 Isopropyl Ether (DIPE)	45	9.283	9.284	(0.861)	2603189	75.0000	71.8989
21 Ethyl tert-Butyl Ether (ETBE)	59	9.824	9.825	(0.911)	2003874	75.0000	73.1563
22 2-Butanone	43	10.061	10.052	(0.933)	419610	75.0000	81.6849

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Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG16.D
Report Date: 17-Mar-2006 12:38

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 cis-1,2-Dichloroethene	96	10.120	10.120	(0.939)	728701	75.0000	72.5844
24 2,2-Dichloropropane	77	10.159	10.160	(0.942)	707879	75.0000	70.5776
25 Bromochloromethane	128	10.494	10.495	(0.974)	375136	75.0000	76.1781
26 Chloroform	83	10.553	10.554	(0.979)	1105352	75.0000	72.2999
27 Tetrahydrofuran	42	10.563	10.563	(0.980)	2230167	750.000	749.1135
* 28 Pentafluorobenzene	168	10.779	10.780	(1.000)	1232716	50.0000	
$ 29 Dibromofluoromethane	113	10.799	10.800	(1.002)	893728	50.0000	50.1359
30 1,1,1-Trichloroethane	97	10.937	10.938	(1.015)	730387	75.0000	73.4689
31 1,1-Dichloropropene	75	11.163	11.164	(0.933)	761226	75.0000	71.1371
32 Carbon Tetrachloride	117	11.213	11.213	(0.937)	543927	75.0000	74.1640
$ 33 1,2-Dichloroethane-d4	65	11.341	11.341	(0.948)	953640	50.0000	50.2832
34 1,2-Dichloroethane	62	11.459	11.459	(0.958)	862534	75.0000	73.6573
35 Benzene	78	11.498	11.499	(0.961)	2493129	75.0000	71.7100
36 Methyl tert-Amyl Ether (TAME)	73	11.547	11.548	(0.965)	1945725	75.0000	74.2203
* 37 1,4-Difluorobenzene	114	11.961	11.962	(1.000)	2519125	50.0000	
38 Trichloroethene	95	12.414	12.414	(1.038)	632564	75.0000	72.3358
$ 39 Trifluorotoluene	146	12.719	12.720	(1.063)	633636	75.0000	72.7822
40 1,2-Dichloropropane	63	12.729	12.739	(1.064)	754068	75.0000	72.2822
41 Dibromomethane	93	12.906	12.907	(1.079)	507786	75.0000	75.4071
42 Bromodichloromethane	83	13.073	13.074	(1.093)	856135	75.0000	74.5493
43 2-Chloroethylvinylether	63	13.684	13.684	(1.144)	5981	75.0000	77.1507
44 cis-1,3-Dichloropropene	75	13.674	13.675	(1.143)	1137849	75.0000	75.3579
45 Tetramethyl THF	43	13.753	13.763	(1.150)	1528106	75.0000	75.7083
46 4-Methyl-2-Pentanone	43	13.812	13.812	(1.155)	875050	75.0000	78.9436
$ 47 Toluene-d8	98	14.087	14.088	(1.178)	2709802	50.0000	50.4921
48 Toluene	92	14.176	14.177	(1.185)	1409653	75.0000	71.0421
49 trans-1,3-Dichloropropene	75	14.383	14.383	(1.202)	993007	75.0000	77.3659
50 1,1,2-Trichloroethane	85	14.649	14.649	(1.225)	370122	75.0000	75.3648
51 1,3-Dichloropropane	76	14.875	14.876	(0.933)	1113549	75.0000	74.0176
52 2-Hexanone	43	14.895	14.886	(0.934)	558926	75.0000	81.8264
53 Tetrachloroethene	166	14.924	14.925	(0.936)	443944	75.0000	72.5709
54 Dibromochloromethane	129	15.200	15.201	(0.953)	662757	75.0000	76.7096
55 1,2-Dibromoethane	107	15.387	15.388	(1.286)	726362	75.0000	76.2616
* 56 Chlorobenzene-d5	117	15.948	15.939	(1.000)	2210028	50.0000	
57 Chlorobenzene	112	15.978	15.978	(1.002)	1608143	75.0000	71.1686
58 1,1,1,2-Tetrachloroethane	131	16.047	16.047	(1.006)	535597	75.0000	74.5834
59 Ethylbenzene	91	16.066	16.067	(1.007)	2546945	75.0000	70.8130
60 m,p-Xylenes	106	16.204	16.195	(1.016)	1828341	150.000	146.8674
61 o-Xylene	106	16.687	16.687	(1.046)	907388	75.0000	72.3785
62 Styrene	104	16.687	16.687	(1.046)	1638565	75.0000	76.3836
63 Bromoform	173	16.952	16.953	(1.063)	424059	75.0000	74.9156
64 Isopropylbenzene	105	17.090	17.081	(0.917)	2127354	75.0000	65.4669
65 Cyclohexanone_	55	17.218	17.219	(0.923)	1494311	75.0000	96.2050
$ 66 Bromofluorobenzene	95	17.287	17.288	(0.927)	1086453	50.0000	45.8554
67 1,1,2,2-Tetrachloroethane	83	17.376	17.376	(0.932)	978773	75.0000	70.1219
68 1,2,3-Trichloropropane	75	17.464	17.465	(0.937)	805768	75.0000	66.6671
69 Bromobenzene	156	17.514	17.504	(0.939)	575708	75.0000	69.3675
70 Propylbenzene	91	17.553	17.544	(0.941)	2548848	75.0000	68.2103
71 2-Chlorotoluene	91	17.701	17.701	(0.949)	1849585	75.0000	67.5864
72 1,3,5-Trimethylbenzene	105	17.720	17.721	(0.950)	1474416	75.0000	73.8624
73 4-Chlorotoluene	91	17.809	17.810	(0.955)	1689618	75.0000	69.7539
74 tert-Butylbenzene	119	18.124	18.125	(0.972)	1422404	75.0000	69.7872(M)
75 1,2,4-Trimethylbenzene	105	18.173	18.174	(0.975)	1398869	75.0000	77.5868
76 sec-Butylbenzene	105	18.380	18.371	(0.986)	1939290	75.0000	69.7588

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG16.D
Report Date: 17-Mar-2006 12:38

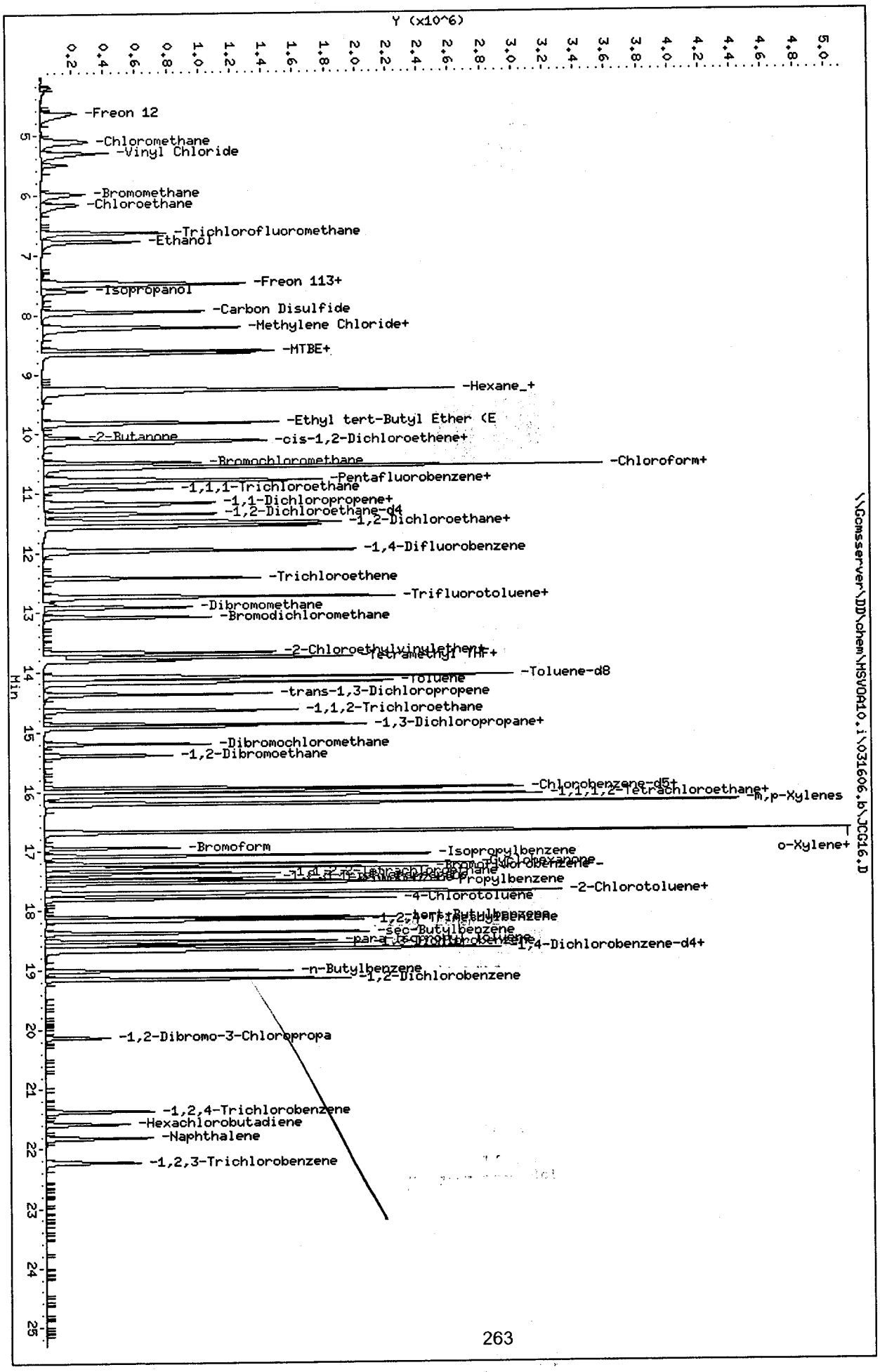
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 para-Isopropyl Toluene	119	18.518	18.518	(0.993)	1349695	75.0000	74.9904
78 1,3-Dichlorobenzene	146	18.577	18.578	(0.996)	981624	75.0000	69.7912
* 79 1,4-Dichlorobenzene-d4	152	18.646	18.646	(1.000)	836203	50.0000	
80 1,4-Dichlorobenzene	146	18.675	18.676	(1.002)	989506	75.0000	71.7986
81 n-Butylbenzene	91	19.010	19.011	(1.020)	1144323	75.0000	78.8263
82 1,2-Dichlorobenzene	146	19.148	19.149	(1.027)	962089	75.0000	71.8742
83 1,2-Dibromo-3-Chloropropane	75	20.132	20.123	(1.080)	154269	75.0000	76.6522
84 1,2,4-Trichlorobenzene	180	21.373	21.374	(1.146)	305116	75.0000	75.1966
85 Hexachlorobutadiene	225	21.590	21.590	(1.158)	137801	75.0000	70.9524
86 Naphthalene	128	21.816	21.817	(1.170)	855057	75.0000	85.3484
87 1,2,3-Trichlorobenzene	180	22.229	22.230	(1.192)	296106	75.0000	75.7634

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG16.D
Date : 16-MAR-2006 18:10
Client ID: DYNA P&T
Sample Info: ICAL,S2783,0.015/100,S2844,0.015/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG17.D
Report Date: 17-Mar-2006 12:38

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG17.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-MAR-2006 18:45 MS Autotune Date: 27-JUL-1998 20:19
Operator : VOC Inst ID: MSVOA10.i
Smp Info : ICAL,S2783,0.02/100,S2844,0.02/100
Misc Info : S2410,0.01/100,100PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\826GOX10.m
Meth Date : 17-Mar-2006 12:29 target Quant Type: ISTD
Cal Date : 16-MAR-2006 18:45 Cal File: JCG17.D
Als bottle: 17 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.646	4.646	(0.431)	933416	100.000	119.7498
2 Chloromethane	50	5.119	5.119	(0.475)	1415394	100.000	102.3613
3 Vinyl Chloride	62	5.306	5.306	(0.492)	1312261	100.000	108.1459
4 Bromomethane	94	5.985	5.985	(0.555)	656084	100.000	99.4349
5 Chloroethane	64	6.162	6.163	(0.572)	769651	100.000	101.5744
6 Trichlorofluoromethane	101	6.635	6.635	(0.616)	1286472	100.000	115.2430
7 Ethanol	45	6.782	6.783	(0.629)	1399726	10000.0	9748.8358
8 Freon 113	101	7.472	7.472	(0.693)	799613	100.000	101.2541
9 Acetone	43	7.481	7.482	(0.694)	284000	100.000	81.7192
10 1,1-Dichloroethene	96	7.501	7.502	(0.696)	739206	100.000	101.4944
11 Isopropanol	45	7.600	7.600	(0.705)	651229	1000.00	1004.5463
12 Carbon Disulfide	76	7.954	7.954	(0.738)	3291409	100.000	98.4188
13 Methylene Chloride	84	8.210	8.210	(0.762)	1029232	100.000	90.7201
14 tert-Butyl Alcohol (TBA)	59	8.220	8.220	(0.763)	872925	1000.00	971.1471
15 MTBE	73	8.604	8.603	(0.798)	2718014	100.000	97.2595
16 trans-1,2-Dichloroethene	96	8.653	8.653	(0.803)	885452	100.000	96.1232
17 Hexane_	57	9.283	9.284	(0.861)	11407	100.000	94.4205
18 Vinyl Acetate	43	9.244	9.244	(0.858)	2708287	100.000	104.9738 (M)
19 1,1-Dichloroethane	63	9.273	9.274	(0.860)	1567376	100.000	93.2109
20 Isopropyl Ether (DIPE)	45	9.283	9.284	(0.861)	3484447	100.000	93.4325
21 Ethyl tert-Butyl Ether (ETBE)	59	9.825	9.825	(0.911)	2627733	100.000	93.1344
22 2-Butanone	43	10.051	10.052	(0.932)	474349	100.000	89.6482

3/28/06

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG17.D
Report Date: 17-Mar-2006 12:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	10.120	10.120	(0.939)	977510	100.000	94.5285
	24 2,2-Dichloropropane	77	10.159	10.160	(0.942)	988542	100.000	95.6865
	25 Bromochloromethane	128	10.494	10.495	(0.974)	500436	100.000	98.6592
	26 Chloroform	83	10.553	10.554	(0.979)	1499059	100.000	95.1927
	27 Tetrahydrofuran	42	10.563	10.563	(0.980)	2706771	1000.00	882.6922
*	28 Pentafluorobenzene	168	10.780	10.780	(1.000)	1269742	50.0000	
$	29 Dibromofluoromethane	113	10.799	10.800	(1.002)	903162	50.0000	49.1877
	30 1,1,1-Trichloroethane	97	10.937	10.938	(1.015)	1044445	100.000	101.9962
	31 1,1-Dichloropropene	75	11.164	11.164	(0.933)	1119308	100.000	102.3463
	32 Carbon Tetrachloride	117	11.213	11.213	(0.937)	837660	100.000	111.7534
$	33 1,2-Dichloroethane-d4	65	11.341	11.341	(0.948)	956360	50.0000	49.3401
	34 1,2-Dichloroethane	62	11.459	11.459	(0.958)	1168590	100.000	97.6432
	35 Benzene	78	11.498	11.499	(0.961)	3389281	100.000	95.3856
	36 Methyl tert-Amyl Ether (TAME)	73	11.548	11.548	(0.965)	2578115	100.000	96.2241
*	37 1,4-Difluorobenzene	114	11.961	11.962	(1.000)	2574598	50.0000	
	38 Trichloroethene	95	12.414	12.414	(1.038)	863391	100.000	96.6044
$	39 Trifluorotoluene	146	12.719	12.720	(1.063)	971526	100.000	109.1893
	40 1,2-Dichloropropane	63	12.739	12.739	(1.065)	1025113	100.000	96.1464
	41 Dibromomethane	93	12.906	12.907	(1.079)	691477	100.000	100.4731
	42 Bromodichloromethane	83	13.074	13.074	(1.093)	1178544	100.000	100.4124
	43 2-Chloroethylvinylether	63	13.684	13.684	(1.144)	7925	100.000	100.0244
	44 cis-1,3-Dichloropropene	75	13.674	13.675	(1.143)	1541254	100.000	99.8755
	45 Tetramethyl THF	43	13.763	13.763	(1.151)	2006998	100.000	97.2920
	46 4-Methyl-2-Pentanone	43	13.812	13.812	(1.155)	1076557	100.000	95.0302
$	47 Toluene-d8	98	14.088	14.088	(1.178)	2770050	50.0000	50.5026
	48 Toluene	92	14.176	14.177	(1.185)	1961258	100.000	96.7116
	49 trans-1,3-Dichloropropene	75	14.383	14.383	(1.202)	1344644	100.000	102.5050
	50 1,1,2-Trichloroethane	85	14.649	14.649	(1.225)	504387	100.000	100.4911
	51 1,3-Dichloropropane	76	14.875	14.876	(0.933)	1496040	100.000	98.0407
	52 2-Hexanone	43	14.885	14.886	(0.934)	667634	100.000	96.3640
	53 Tetrachloroethene	166	14.924	14.925	(0.936)	659127	100.000	106.2284
	54 Dibromochloromethane	129	15.200	15.201	(0.954)	901424	100.000	102.8636
	55 1,2-Dibromoethane	107	15.387	15.388	(1.286)	973409	100.000	99.9974
*	56 Chlorobenzene-d5	117	15.939	15.939	(1.000)	2241612	50.0000	
	57 Chlorobenzene	112	15.978	15.978	(1.002)	2224733	100.000	97.0687
	58 1,1,1,2-Tetrachloroethane	131	16.047	16.047	(1.007)	739249	100.000	101.4920
	59 Ethylbenzene	91	16.066	16.067	(1.008)	3555830	100.000	97.4702
	60 m,p-Xylenes	106	16.194	16.195	(1.016)	2551968	200.000	202.1067
	61 o-Xylene	106	16.687	16.687	(1.047)	1253934	100.000	98.6117
	62 Styrene	104	16.687	16.687	(1.047)	2224739	100.000	102.2475
	63 Bromoform	173	16.953	16.953	(1.064)	564461	100.000	98.3144
	64 Isopropylbenzene	105	17.081	17.081	(0.916)	3091114	100.000	92.5207
	65 Cyclohexanone_	55	17.218	17.219	(0.923)	1081081	100.000	67.6950
$	66 Bromofluorobenzene	95	17.287	17.288	(0.927)	1120726	50.0000	46.0067
	67 1,1,2,2-Tetrachloroethane	83	17.376	17.376	(0.932)	1294196	100.000	90.1807
	68 1,2,3-Trichloropropane	75	17.465	17.465	(0.937)	1059769	100.000	85.2816
	69 Bromobenzene	156	17.504	17.504	(0.939)	787842	100.000	92.3284
	70 Propylbenzene	91	17.543	17.544	(0.941)	3767258	100.000	98.0558
	71 2-Chlorotoluene	91	17.701	17.701	(0.949)	2580530	100.000	91.7141
	72 1,3,5-Trimethylbenzene	105	17.721	17.721	(0.950)	2130399	100.000	103.8022
	73 4-Chlorotoluene	91	17.809	17.810	(0.955)	2396127	100.000	96.2125
	74 tert-Butylbenzene	119	18.124	18.125	(0.972)	2110531	100.000	100.7133(M)
	75 1,2,4-Trimethylbenzene	105	18.173	18.174	(0.975)	1998853	100.000	107.8286
	76 sec-Butylbenzene	105	18.370	18.371	(0.985)	2974715	100.000	104.0743

B 3/17/06

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG17.D
Report Date: 17-Mar-2006 12:38

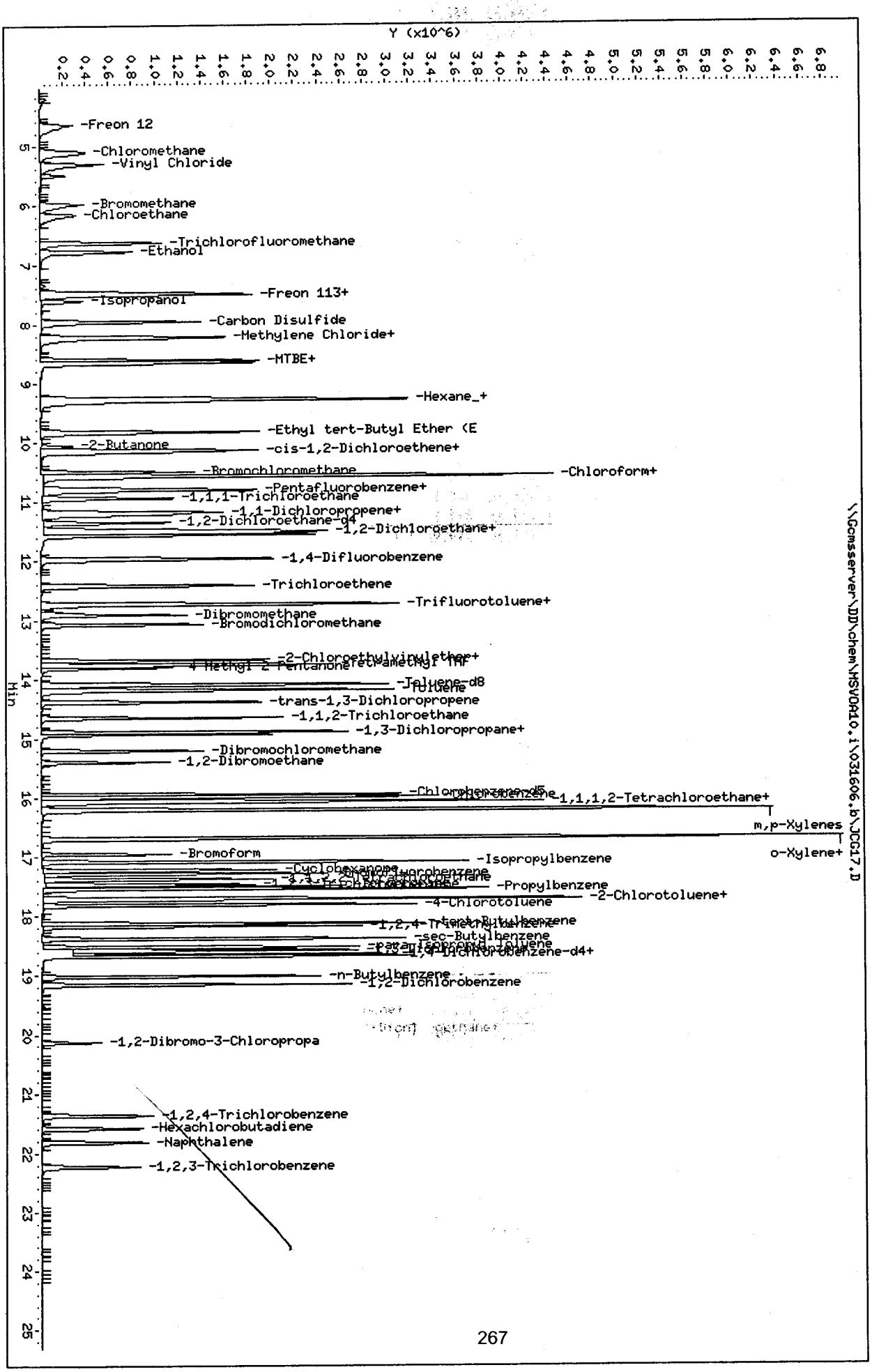
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 para-Isopropyl Toluene	119	18.518	18.518	(0.993)	2046186	100.000	110.5752
78 1,3-Dichlorobenzene	146	18.577	18.578	(0.996)	1371168	100.000	94.8175
* 79 1,4-Dichlorobenzene-d4	152	18.646	18.646	(1.000)	859745	50.0000	
80 1,4-Dichlorobenzene	146	18.675	18.676	(1.002)	1374844	100.000	97.0271
81 n-Butylbenzene	91	19.010	19.011	(1.020)	1786589	100.000	119.6987
82 1,2-Dichlorobenzene	146	19.148	19.149	(1.027)	1344105	100.000	97.6637
83 1,2-Dibromo-3-Chloropropane	75	20.123	20.123	(1.079)	199974	100.000	96.8763
84 1,2,4-Trichlorobenzene	180	21.373	21.374	(1.146)	440422	100.000	100.0108
85 Hexachlorobutadiene	225	21.590	21.590	(1.158)	218827	100.000	101.3969
86 Naphthalene	128	21.816	21.817	(1.170)	1162704	100.000	112.8785
87 1,2,3-Trichlorobenzene	180	22.230	22.230	(1.192)	415818	100.000	99.7336

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Ccmsserver\DD\chem\MSVOA10.i\031606.b\JCG17.D
Date : 16-MAR-2006 18:45
Client ID: DYNA P&T
Sample Info: ICAL,S2783,0.02/100,S2844,0.02/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA06 Run Name: 30PPB IDF : 1.0
Seqnum : 456108478003 File : fcg03 Time : 16-MAR-2006 08:49
Cal : 456098395001 Caldate : 09-MAR-2006 Caltype : WATER
Standards: S2844 (16670X), S2783 (16670X), S2410 (33330X), S2740 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.8758	0.8385	30.00	28.72	ug/L	-4	30	0.0500	
Chloromethane	0.8831	0.7288	30.00	24.76	ug/L	-17	30	0.1000	
Vinyl Chloride	0.7006	0.6628	30.00	28.38	ug/L	-5	20	0.0500	
Bromomethane	0.4629	0.4031	30.00	26.12	ug/L	-13	30	0.0500	
Chloroethane	0.3861	0.3540	30.00	27.50	ug/L	-8	30	0.0500	
Trichlorofluoromethane	0.9702	1.0016	30.00	30.97	ug/L	3	30	0.0500	
Acetone	0.3588	0.3930	30.00	32.86	ug/L	10	40	0.0500	
Freon 113	0.4860	0.5118	30.00	28.97	ug/L	-3	30	0.0500	
1,1-Dichloroethene	0.5785	0.5169	30.00	26.80	ug/L	-11	20	0.0500	
Methylene Chloride	0.8432	0.8174	30.00	29.09	ug/L	-3	30	0.0500	
Carbon Disulfide	2.3558	2.2147	30.00	28.20	ug/L	-6	30	0.0500	
MTBE	2.3661	2.3668	30.00	30.01	ug/L	0	30	0.0500	
trans-1,2-Dichloroethene	0.7174	0.6823	30.00	28.53	ug/L	-5	30	0.0500	
Vinyl Acetate	2.1122	2.2043	30.00	31.31	ug/L	4	40	0.0500	
1,1-Dichloroethane	1.3283	1.2895	30.00	29.12	ug/L	-3	30	0.1000	
2-Butanone	0.5094	0.5488	30.00	32.32	ug/L	8	40	0.0500	
2,2-Dichloropropane	0.8606	0.9281	30.00	32.35	ug/L	8	30	0.0500	
cis-1,2-Dichloroethene	0.8444	0.7622	30.00	27.08	ug/L	-10	30	0.0500	
Chloroform	1.3107	1.2792	30.00	29.28	ug/L	-2	20	0.0500	
Bromochloromethane	0.3941	0.3937	30.00	29.97	ug/L	0	30	0.0500	
1,1,1-Trichloroethane	0.8608	0.8336	30.00	29.05	ug/L	-3	30	0.0500	
1,1-Dichloropropene	0.4704	0.4645	30.00	29.63	ug/L	-1	30	0.0500	
Carbon Tetrachloride	0.3261	0.3523	30.00	32.40	ug/L	8	30	0.0500	
1,2-Dichloroethane	0.5232	0.5292	30.00	30.35	ug/L	1	30	0.0500	
Benzene	1.5622	1.5020	30.00	28.84	ug/L	-4	30	0.0500	
Trichloroethene	0.3692	0.3613	30.00	29.36	ug/L	-2	30	0.0500	
1,2-Dichloropropane	0.4513	0.4411	30.00	29.32	ug/L	-2	20	0.0500	
Bromodichloromethane	0.5305	0.5353	30.00	30.27	ug/L	1	30	0.0500	
Dibromomethane	0.3124	0.3108	30.00	29.85	ug/L	-1	30	0.0500	
2-Chloroethylvinylether	0.0301	0.0091	30.00	9.072	ug/L	-70	40	0.0500	c- crf irf rsd ***
4-Methyl-2-Pentanone	0.5545	0.5769	30.00	31.21	ug/L	4	40	0.0500	
Tetramethyl THF	0.9678	0.9714	30.00	30.11	ug/L	0	30	0.0500	
cis-1,3-Dichloropropene	0.6778	0.6956	30.00	30.79	ug/L	3	30	0.0500	
Toluene	0.8800	0.8452	30.00	28.81	ug/L	-4	20	0.0500	
trans-1,3-Dichloropropene	0.6256	0.6474	30.00	31.05	ug/L	3	30	0.0500	
1,1,2-Trichloroethane	0.2283	0.2292	30.00	30.11	ug/L	0	30	0.0500	
2-Hexanone	0.4698	0.5112	30.00	32.64	ug/L	9	40	0.0500	
1,3-Dichloropropane	0.8366	0.8419	30.00	30.19	ug/L	1	30	0.0500	
Tetrachloroethene	0.3445	0.3573	30.00	31.12	ug/L	4	30	0.0500	
Dibromochloromethane	0.4736	0.5040	30.00	31.92	ug/L	6	30	0.0500	
1,2-Dibromoethane	0.4288	0.4287	30.00	29.99	ug/L	0	30	0.0500	
Chlorobenzene	1.0998	1.1049	30.00	30.14	ug/L	0	30	0.3000	
1,1,1,2-Tetrachloroethane	0.4076	0.4104	30.00	30.20	ug/L	1	30	0.0500	
Ethylbenzene	1.8069	1.8486	30.00	30.69	ug/L	2	20	0.0500	
m,p-Xylenes	0.6428	0.6422	60.00	59.94	ug/L	0	30	0.0500	
o-Xylene	0.6565	0.6600	30.00	30.16	ug/L	1	30	0.0500	
Styrene	1.1624	1.1691	30.00	30.17	ug/L	1	30	0.0500	
Bromoform	0.3842	0.4005	30.00	31.27	ug/L	4	30	0.1000	
Isopropylbenzene	3.0248	2.9445	30.00	29.20	ug/L	-3	30	0.0500	

03/17/06

p03/10/06

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.4808	1.5160	30.00	30.71	ug/L	2	30	0.3000	
1,2,3-Trichloropropane	1.2054	1.1449	30.00	28.50	ug/L	-5	30	0.0500	
Propylbenzene	3.7416	3.6631	30.00	29.37	ug/L	-2	30	0.0500	
Bromobenzene	1.0284	0.9966	30.00	29.07	ug/L	-3	30	0.0500	
1,3,5-Trimethylbenzene	2.1948	2.2661	30.00	30.97	ug/L	3	30	0.0500	
2-Chlorotoluene	2.8627	2.7489	30.00	28.81	ug/L	-4	30	0.0500	
4-Chlorotoluene	2.6572	2.5953	30.00	29.30	ug/L	-2	30	0.0500	
tert-Butylbenzene	1.7779	1.7813	30.00	30.06	ug/L	0	30	0.0500	
1,2,4-Trimethylbenzene	2.0875	2.1278	30.00	30.58	ug/L	2	30	0.0500	
sec-Butylbenzene	2.4829	2.5865	30.00	31.25	ug/L	4	30	0.0500	
para-Isopropyl Toluene	1.7295	1.8912	30.00	32.81	ug/L	9	30	0.0500	
1,3-Dichlorobenzene	1.5895	1.6097	30.00	30.38	ug/L	1	30	0.0500	
1,4-Dichlorobenzene	1.6202	1.6140	30.00	29.88	ug/L	0	30	0.0500	
n-Butylbenzene	1.3453	1.5577	30.00	34.74	ug/L	16	30	0.0500	
1,2-Dichlorobenzene	1.5850	1.5783	30.00	29.87	ug/L	0	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.2746	0.2684	30.00	30.97	ug/L	3	30	0.0500	
1,2,4-Trichlorobenzene	0.3669	0.4738	30.00	33.27	ug/L	11	30	0.0500	
Hexachlorobutadiene	0.1698	0.2387	30.00	35.94	ug/L	20	30	0.0500	
Naphthalene	1.3059	1.5017	30.00	31.08	ug/L	4	30	0.0500	
1,2,3-Trichlorobenzene	0.3141	0.4455	30.00	32.39	ug/L	8	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0759	0.0903	300.0	357.1	ug/L	19	30	0.0050	
Isopropyl Ether (DIPE)	3.2114	3.0445	30.00	28.44	ug/L	-5	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	2.3697	2.2660	30.00	28.69	ug/L	-4	30	0.0500	
Methyl tert-Amyl Ether (TAME)	1.2404	1.2445	30.00	30.10	ug/L	0	30	0.0500	
Ethanol	0.0103	0.0130	3000	3789	ug/L	**26**	30	5.0E-4	!c+
Isopropanol	0.0549	0.0671	300.0	366.5	ug/L	**22**	30	0.0050	!c+
Tetrahydrofuran	0.2787	0.2794	300.0	300.7	ug/L	0	30	0.0050	
Dibromofluoromethane	0.6665	0.6744	50.00	50.60	ug/L	1	30	0.0500	
1,2-Dichloroethane-d4	0.4034	0.4087	50.00	50.65	ug/L	1	30	0.0500	
Trifluorotoluene	0.4068	0.4370	30.00	32.23	ug/L	7	30	0.0500	
Toluene-d8	1.0888	1.0779	50.00	49.50	ug/L	-1	30	0.0500	
Bromofluorobenzene	1.1972	1.1389	50.00	47.56	ug/L	-5	30	0.0500	

ISTD (ICAL fc921)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	957753	812438	-15.17	12.35	12.32	-0.03
1,4-Difluorobenzene	1704082	1438783	-15.57	13.66	13.64	-0.02
Chlorobenzene-d5	1422227	1201988	-15.49	18.32	18.30	-0.02
1,4-Dichlorobenzene-d4	701343	601557	-14.23	21.16	21.14	-0.02

!=warning +=high bias -=low bias c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure rsd=ICAL %RSD failure

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA08 Run Name: 50 PPB IDF : 1.0
Seqnum : 476109882003 File : hch03 Time : 17-MAR-2006 08:31
Cal : 476046588001 Caldate : 01-FEB-2006 Caltype : WATER
Standards: S2844 (10000X), S2783 (10000X), S2410 (20000X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.5796	0.5787	50.00	45.68	ug/L	-9	30	0.0500	
Chloromethane	0.9006	0.8152	50.00	45.26	ug/L	-9	30	0.1000	
Vinyl Chloride	0.6624	0.6908	50.00	52.14	ug/L	4	20	0.0500	
Bromomethane	0.2589	0.0931	50.00	16.09	ug/L	**-68**	30	0.0500	c- m ***
Chloroethane	0.3907	0.4100	50.00	52.47	ug/L	5	30	0.0500	
Trichlorofluoromethane	0.4825	0.6273	50.00	65.01	ug/L	**30**	30	0.0500	!c+
Acetone	0.3021	0.2722	50.00	45.06	ug/L	-10	40	0.0500	
Freon 113	0.3302	0.4273	50.00	48.83	ug/L	-2	30	0.0500	
1,1-Dichloroethene	0.3600	0.3443	50.00	47.81	ug/L	-4	20	0.0500	
Methylene Chloride	0.5823	0.4805	50.00	41.25	ug/L	-17	30	0.0500	
Carbon Disulfide	1.7971	1.6534	50.00	46.00	ug/L	-8	30	0.0500	
MTBE	1.4527	1.4726	50.00	50.68	ug/L	1	30	0.0500	
trans-1,2-Dichloroethene	0.4543	0.4290	50.00	47.21	ug/L	-6	30	0.0500	
Vinyl Acetate	1.6426	1.8786	50.00	57.18	ug/L	14	40	0.0500	
1,1-Dichloroethane	1.0006	0.9799	50.00	48.96	ug/L	-2	30	0.1000	
2-Butanone	0.4575	0.4225	50.00	46.17	ug/L	-8	40	0.0500	
2,2-Dichloropropane	0.5854	0.6725	50.00	57.44	ug/L	15	30	0.0500	
cis-1,2-Dichloroethene	0.4992	0.4709	50.00	47.16	ug/L	-6	30	0.0500	
Chloroform	0.8302	0.8340	50.00	50.23	ug/L	0	20	0.0500	
Bromochloromethane	0.2270	0.2087	50.00	45.97	ug/L	-8	30	0.0500	
1,1,1-Trichloroethane	0.5226	0.5804	50.00	55.53	ug/L	11	30	0.0500	
1,1-Dichloropropene	0.2840	0.3131	50.00	49.89	ug/L	0	30	0.0500	
Carbon Tetrachloride	0.1859	0.2164	50.00	50.43	ug/L	1	30	0.0500	
1,2-Dichloroethane	0.3470	0.3522	50.00	50.75	ug/L	1	30	0.0500	
Benzene	0.8363	0.8152	50.00	48.74	ug/L	-3	30	0.0500	
Trichloroethene	0.2025	0.2012	50.00	49.67	ug/L	-1	30	0.0500	
1,2-Dichloropropane	0.2865	0.2787	50.00	48.65	ug/L	-3	20	0.0500	
Bromodichloromethane	0.3039	0.3015	50.00	49.62	ug/L	-1	30	0.0500	
Dibromomethane	0.1588	0.1463	50.00	46.05	ug/L	-8	30	0.0500	
2-Chloroethylvinylether	0.0733	0.0573	50.00	32.64	ug/L	**-35**	40	0.0500	!c-
4-Methyl-2-Pentanone	0.4139	0.3821	50.00	46.16	ug/L	-8	40	0.0500	
Tetramethyl THF	0.7071	0.7356	50.00	52.01	ug/L	4	30	0.0500	
cis-1,3-Dichloropropene	0.3937	0.3730	50.00	47.37	ug/L	-5	30	0.0500	
Toluene	0.4496	0.4431	50.00	49.28	ug/L	-1	20	0.0500	
trans-1,3-Dichloropropene	0.3620	0.3433	50.00	47.41	ug/L	-5	30	0.0500	
1,1,2-Trichloroethane	0.1200	0.1105	50.00	46.07	ug/L	-8	30	0.0500	
2-Hexanone	0.3361	0.3063	50.00	45.57	ug/L	-9	40	0.0500	
1,3-Dichloropropane	0.4573	0.4188	50.00	45.79	ug/L	-8	30	0.0500	
Tetrachloroethene	0.1551	0.1646	50.00	45.67	ug/L	-9	30	0.0500	
Dibromochloromethane	0.2193	0.2075	50.00	47.31	ug/L	-5	30	0.0500	
1,2-Dibromoethane	0.2117	0.1935	50.00	45.70	ug/L	-9	30	0.0500	
Chlorobenzene	0.5482	0.5221	50.00	47.62	ug/L	-5	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1843	0.1795	50.00	48.71	ug/L	-3	30	0.0500	
Ethylbenzene	0.9264	0.9581	50.00	51.71	ug/L	3	20	0.0500	
m,p-Xylenes	0.3213	0.3364	100.0	104.7	ug/L	5	30	0.0500	
o-Xylene	0.3218	0.3266	50.00	50.75	ug/L	1	30	0.0500	
Styrene	0.5822	0.5718	50.00	49.10	ug/L	-2	30	0.0500	
Bromoform	0.1450	0.1293	50.00	44.60	ug/L	-11	30	0.1000	
Isopropylbenzene	1.7784	1.9568	50.00	55.02	ug/L	10	30	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.8631	0.8022	50.00	46.47	ug/L	-7	30	0.3000	
1,2,3-Trichloropropane	0.1962	0.1865	50.00	47.53	ug/L	-5	30	0.0500	
Propylbenzene	2.3081	2.6040	50.00	56.41	ug/L	13	30	0.0500	
Bromobenzene	0.4470	0.4396	50.00	49.17	ug/L	-2	30	0.0500	
1,3,5-Trimethylbenzene	1.4355	1.5601	50.00	54.34	ug/L	9	30	0.0500	
2-Chlorotoluene	1.6443	1.6976	50.00	51.62	ug/L	3	30	0.0500	
4-Chlorotoluene	1.5655	1.5504	50.00	49.52	ug/L	-1	30	0.0500	
tert-Butylbenzene	1.1200	1.2441	50.00	48.56	ug/L	-3	30	0.0500	
1,2,4-Trimethylbenzene	1.4917	1.5043	50.00	50.42	ug/L	1	30	0.0500	
sec-Butylbenzene	1.8394	2.0823	50.00	48.53	ug/L	-3	30	0.0500	
para-Isopropyl Toluene	1.3712	1.4988	50.00	47.94	ug/L	-4	30	0.0500	
1,3-Dichlorobenzene	0.8196	0.8048	50.00	49.09	ug/L	-2	30	0.0500	
1,4-Dichlorobenzene	0.8520	0.8538	50.00	50.11	ug/L	0	30	0.0500	
n-Butylbenzene	1.4409	1.5527	50.00	47.41	ug/L	-5	30	0.0500	
1,2-Dichlorobenzene	0.7873	0.7609	50.00	48.32	ug/L	-3	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1592	0.1365	50.00	42.89	ug/L	-14	30	0.0500	
1,2,4-Trichlorobenzene	0.3931	0.3510	50.00	44.65	ug/L	-11	30	0.0500	
Hexachlorobutadiene	0.1229	0.1321	50.00	43.86	ug/L	-12	30	0.0500	
Naphthalene	1.0879	1.0309	50.00	47.38	ug/L	-5	30	0.0500	
1,2,3-Trichlorobenzene	0.3826	0.3288	50.00	42.96	ug/L	-14	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0602	0.0576	500.0	478.5	ug/L	-4	30	0.0050	
Isopropyl Ether (DIPE)	2.5027	2.6955	50.00	53.85	ug/L	8	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.6278	1.7017	50.00	52.27	ug/L	5	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.7096	0.6648	50.00	46.84	ug/L	-6	30	0.0500	
Cyclohexanone	0.1257	0.0910	500.0	362.0	ug/L	**-28**	30	0.0050	!c-
Ethanol	0.0105	0.0101	5000	4771	ug/L	-5	30	5.0E-4	
Isopropanol	0.0534	0.0521	500.0	487.9	ug/L	-2	30	0.0050	
Tetrahydrofuran	0.2425	0.2341	500.0	482.7	ug/L	-3	30	0.0050	
Dibromofluoromethane	0.7768	0.7855	50.00	50.56	ug/L	1	30	0.0500	
1,2-Dichloroethane-d4	0.5078	0.5484	50.00	54.00	ug/L	8	30	0.0500	
Trifluorotoluene	0.1908	0.2125	50.00	47.57	ug/L	-5	30	0.0500	
Toluene-d8	1.1251	1.1385	50.00	50.59	ug/L	1	30	0.0500	
Bromofluorobenzene	1.3034	1.2733	50.00	48.84	ug/L	-2	30	0.0500	

ISTD (ICAL hb115)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1400499	1374515	-1.86	10.48	10.48	0.00
1,4-Difluorobenzene	2944215	2948514	0.15	11.61	11.61	0.00
Chlorobenzene-d5	2503542	2563293	2.39	15.61	15.61	0.00
1,4-Dichlorobenzene-d4	1111278	1112143	0.08	18.34	18.34	0.00

R 3/17/06

LW 3-17-06

!=warning +=high bias -=low bias c=CCV m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA08 Run Name: 30 PPB IDF : 1.0
Seqnum : 476109882011 File : hch11 Time : 17-MAR-2006 13:30
Cal : 476046588001 Caldate : 01-FEB-2006 Caltype : WATER
Standards: S2844 (16670X), S2783 (16670X), S2410 (33330X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.5796	0.4530	30.00	21.38	ug/L	**-29**	30	0.0500	!c-
Chloromethane	0.9006	0.7354	30.00	24.50	ug/L	-18	30	0.1000	
Vinyl Chloride	0.6624	0.6239	30.00	28.26	ug/L	-6	20	0.0500	
Bromomethane	0.2589	0.1540	30.00	15.97	ug/L	**-47**	30	0.0500	c- m ***
Chloroethane	0.3907	0.3721	30.00	28.57	ug/L	-5	30	0.0500	
Trichlorofluoromethane	0.4825	0.5574	30.00	34.66	ug/L	16	30	0.0500	
Acetone	0.3021	0.2601	30.00	25.82	ug/L	-14	40	0.0500	
Freon 113	0.3302	0.4044	30.00	28.06	ug/L	-6	30	0.0500	
1,1-Dichloroethene	0.3600	0.3453	30.00	28.77	ug/L	-4	20	0.0500	
Methylene Chloride	0.5823	0.4868	30.00	25.08	ug/L	-16	30	0.0500	
Carbon Disulfide	1.7971	1.7012	30.00	28.40	ug/L	-5	30	0.0500	
MTBE	1.4527	1.4491	30.00	29.93	ug/L	0	30	0.0500	
trans-1,2-Dichloroethene	0.4543	0.4196	30.00	27.71	ug/L	-8	30	0.0500	
Vinyl Acetate	1.6426	1.8344	30.00	33.50	ug/L	12	40	0.0500	
1,1-Dichloroethane	1.0006	0.9728	30.00	29.17	ug/L	-3	30	0.1000	
2-Butanone	0.4575	0.4017	30.00	26.34	ug/L	-12	40	0.0500	
2,2-Dichloropropane	0.5854	0.5428	30.00	27.82	ug/L	-7	30	0.0500	
cis-1,2-Dichloroethene	0.4992	0.4617	30.00	27.74	ug/L	-8	30	0.0500	
Chloroform	0.8302	0.8252	30.00	29.82	ug/L	-1	20	0.0500	
Bromochloromethane	0.2270	0.2068	30.00	27.33	ug/L	-9	30	0.0500	
1,1,1-Trichloroethane	0.5226	0.5778	30.00	33.17	ug/L	11	30	0.0500	
1,1-Dichloropropene	0.2840	0.3000	30.00	28.73	ug/L	-4	30	0.0500	
Carbon Tetrachloride	0.1859	0.2074	30.00	29.17	ug/L	-3	30	0.0500	
1,2-Dichloroethane	0.3470	0.3495	30.00	30.21	ug/L	1	30	0.0500	
Benzene	0.8363	0.8192	30.00	29.39	ug/L	-2	30	0.0500	
Trichloroethene	0.2025	0.2017	30.00	29.88	ug/L	0	30	0.0500	
1,2-Dichloropropane	0.2865	0.2732	30.00	28.61	ug/L	-5	20	0.0500	
Bromodichloromethane	0.3039	0.2921	30.00	28.83	ug/L	-4	30	0.0500	
Dibromomethane	0.1588	0.1485	30.00	28.05	ug/L	-6	30	0.0500	
2-Chloroethylvinylether	0.0733	0.0432	30.00	15.91	ug/L	**-47**	40	0.0500	c- crf ***
4-Methyl-2-Pentanone	0.4139	0.3748	30.00	27.17	ug/L	-9	40	0.0500	
Tetramethyl THF	0.7071	0.7265	30.00	30.82	ug/L	3	30	0.0500	
cis-1,3-Dichloropropene	0.3937	0.3646	30.00	27.79	ug/L	-7	30	0.0500	
Toluene	0.4496	0.4391	30.00	29.30	ug/L	-2	20	0.0500	
trans-1,3-Dichloropropene	0.3620	0.3242	30.00	26.87	ug/L	-10	30	0.0500	
1,1,2-Trichloroethane	0.1200	0.1087	30.00	27.18	ug/L	-9	30	0.0500	
2-Hexanone	0.3361	0.3054	30.00	27.26	ug/L	-9	40	0.0500	
1,3-Dichloropropane	0.4573	0.4295	30.00	28.18	ug/L	-6	30	0.0500	
Tetrachloroethene	0.1551	0.1573	30.00	26.37	ug/L	-12	30	0.0500	
Dibromochloromethane	0.2193	0.2056	30.00	28.13	ug/L	-6	30	0.0500	
1,2-Dibromoethane	0.2117	0.1892	30.00	26.80	ug/L	-11	30	0.0500	
Chlorobenzene	0.5482	0.5153	30.00	28.20	ug/L	-6	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1843	0.1794	30.00	29.20	ug/L	-3	30	0.0500	
Ethylbenzene	0.9264	0.9477	30.00	30.69	ug/L	2	20	0.0500	
m,p-Xylenes	0.3213	0.3279	60.00	61.23	ug/L	2	30	0.0500	
o-Xylene	0.3218	0.3190	30.00	29.74	ug/L	-1	30	0.0500	
Styrene	0.5822	0.5690	30.00	29.32	ug/L	-2	30	0.0500	
Bromoform	0.1450	0.1251	30.00	25.88	ug/L	-14	30	0.1000	
Isopropylbenzene	1.7784	1.9444	30.00	32.80	ug/L	9	30	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.8631	0.8094	30.00	28.13	ug/L	-6	30	0.3000	
1,2,3-Trichloropropane	0.1962	0.1908	30.00	29.16	ug/L	-3	30	0.0500	
Propylbenzene	2.3081	2.5919	30.00	33.69	ug/L	12	30	0.0500	
Bromobenzene	0.4470	0.4335	30.00	29.10	ug/L	-3	30	0.0500	
1,3,5-Trimethylbenzene	1.4355	1.5481	30.00	32.35	ug/L	8	30	0.0500	
2-Chlorotoluene	1.6443	1.7103	30.00	31.20	ug/L	4	30	0.0500	
4-Chlorotoluene	1.5655	1.5543	30.00	29.79	ug/L	-1	30	0.0500	
tert-Butylbenzene	1.1200	1.2486	30.00	29.42	ug/L	-2	30	0.0500	
1,2,4-Trimethylbenzene	1.4917	1.4857	30.00	29.88	ug/L	0	30	0.0500	
sec-Butylbenzene	1.8394	2.0520	30.00	28.83	ug/L	-4	30	0.0500	
para-Isopropyl Toluene	1.3712	1.4422	30.00	27.83	ug/L	-7	30	0.0500	
1,3-Dichlorobenzene	0.8196	0.7820	30.00	28.62	ug/L	-5	30	0.0500	
1,4-Dichlorobenzene	0.8520	0.8253	30.00	29.06	ug/L	-3	30	0.0500	
n-Butylbenzene	1.4409	1.4474	30.00	26.61	ug/L	-11	30	0.0500	
1,2-Dichlorobenzene	0.7873	0.7587	30.00	28.91	ug/L	-4	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1592	0.1367	30.00	25.75	ug/L	-14	30	0.0500	
1,2,4-Trichlorobenzene	0.3931	0.3359	30.00	25.63	ug/L	-15	30	0.0500	
Hexachlorobutadiene	0.1229	0.1252	30.00	25.04	ug/L	-17	30	0.0500	
Naphthalene	1.0879	1.0049	30.00	27.71	ug/L	-8	30	0.0500	
1,2,3-Trichlorobenzene	0.3826	0.3248	30.00	25.47	ug/L	-15	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0602	0.0568	300.0	283.1	ug/L	-6	30	0.0050	
Isopropyl Ether (DIPE)	2.5027	2.6963	30.00	32.32	ug/L	8	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.6278	1.6973	30.00	31.28	ug/L	4	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.7096	0.6700	30.00	28.32	ug/L	-6	30	0.0500	
Cyclohexanone	0.1257	0.0407	300.0	97.12	ug/L	-68	30	0.0050	c- ***
Ethanol	0.0105	0.0099	3000	2820	ug/L	-6	30	5.0E-4	
Isopropanol	0.0534	0.0496	300.0	278.4	ug/L	-7	30	0.0050	
Tetrahydrofuran	0.2425	0.2328	300.0	287.9	ug/L	-4	30	0.0050	
Dibromofluoromethane	0.7768	0.7840	50.00	50.46	ug/L	1	30	0.0500	
1,2-Dichloroethane-d4	0.5078	0.5538	50.00	54.54	ug/L	9	30	0.0500	
Trifluorotoluene	0.1908	0.1982	30.00	26.70	ug/L	-11	30	0.0500	
Toluene-d8	1.1251	1.1256	50.00	50.02	ug/L	0	30	0.0500	
Bromofluorobenzene	1.3034	1.3073	50.00	50.15	ug/L	0	30	0.0500	

ISTD (ICAL hb115)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1400499	1388522	-0.86	10.48	10.48	0.00
1,4-Difluorobenzene	2944215	2969121	0.85	11.61	11.61	0.00
Chlorobenzene-d5	2503542	2524964	0.86	15.61	15.62	0.01
1,4-Dichlorobenzene-d4	1111278	1074869	-3.28	18.34	18.33	-0.01

LW 3-20-06

03/20/06

!=warning -=low bias c=CCV crf=CCV min RF failure m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA10 Run Name: 25PPB IDF : 1.0
Seqnum : 496110066002 File : jch02 Time : 17-MAR-2006 10:44
Cal : 496108554002 Caldate : 16-MAR-2006 Caltype : WATER
Standards: S2783 (20000X), S2844 (20000X), S2410 (40000X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.3069	0.3956	25.00	32.22	ug/L	**29**	30	0.0500	!c+
Chloromethane	0.5445	0.6073	25.00	27.88	ug/L	12	30	0.1000	
Vinyl Chloride	0.4778	0.5437	25.00	28.45	ug/L	14	20	0.0500	
Bromomethane	0.1994	0.2149	25.00	24.77	ug/L	-1	30	0.0500	
Chloroethane	0.2984	0.3128	25.00	26.21	ug/L	5	30	0.0500	
Trichlorofluoromethane	0.4396	0.5004	25.00	28.46	ug/L	14	30	0.0500	
Acetone	0.1369	0.1605	25.00	29.33	ug/L	17	40	0.0500	
Freon 113	0.2650	0.3350	25.00	32.43	ug/L	**30**	30	0.0500	!c+
1,1-Dichloroethene	0.2868	0.3113	25.00	27.14	ug/L	9	20	0.0500	
Methylene Chloride	0.4467	0.4165	25.00	23.31	ug/L	-7	30	0.0500	
Carbon Disulfide	1.3169	1.4163	25.00	26.89	ug/L	8	30	0.0500	
MTBE	1.1005	1.0909	25.00	24.78	ug/L	-1	30	0.0500	
trans-1,2-Dichloroethene	0.3627	0.3621	25.00	24.95	ug/L	0	30	0.0500	
Vinyl Acetate	1.0757	1.0112	25.00	25.23	ug/L	1	40	0.0500	m
1,1-Dichloroethane	0.6622	0.6619	25.00	24.99	ug/L	0	30	0.1000	
2-Butanone	0.2084	0.2142	25.00	25.70	ug/L	3	40	0.0500	
2,2-Dichloropropane	0.4068	0.4606	25.00	28.30	ug/L	13	30	0.0500	
cis-1,2-Dichloroethene	0.4072	0.4052	25.00	24.88	ug/L	0	30	0.0500	
Chloroform	0.6201	0.6226	25.00	25.10	ug/L	0	20	0.0500	
Bromochloromethane	0.1997	0.2055	25.00	25.72	ug/L	3	30	0.0500	
1,1,1-Trichloroethane	0.4032	0.4302	25.00	26.67	ug/L	7	30	0.0500	
1,1-Dichloropropene	0.2124	0.2307	25.00	27.15	ug/L	9	30	0.0500	
Carbon Tetrachloride	0.1456	0.1625	25.00	27.92	ug/L	12	30	0.0500	
1,2-Dichloroethane	0.2324	0.2263	25.00	24.34	ug/L	-3	30	0.0500	
Benzene	0.6901	0.6848	25.00	24.81	ug/L	-1	30	0.0500	
Trichloroethene	0.1736	0.1740	25.00	25.06	ug/L	0	30	0.0500	
1,2-Dichloropropane	0.2071	0.2092	25.00	25.26	ug/L	1	20	0.0500	
Bromodichloromethane	0.2279	0.2294	25.00	25.16	ug/L	1	30	0.0500	
Dibromomethane	0.1337	0.1352	25.00	25.29	ug/L	1	30	0.0500	
2-Chloroethylvinylether	0.0015	0.0017	25.00	28.43	ug/L	14	40	0.0500	crf irf ***
4-Methyl-2-Pentanone	0.2200	0.2178	25.00	24.75	ug/L	-1	40	0.0500	
Tetramethyl THF	0.4006	0.4082	25.00	25.47	ug/L	2	30	0.0500	
cis-1,3-Dichloropropene	0.2997	0.3128	25.00	26.09	ug/L	4	30	0.0500	
Toluene	0.3938	0.3938	25.00	25.00	ug/L	0	20	0.0500	
trans-1,3-Dichloropropene	0.2548	0.2667	25.00	26.17	ug/L	5	30	0.0500	
1,1,2-Trichloroethane	0.0975	0.0998	25.00	25.58	ug/L	2	30	0.0500	
2-Hexanone	0.1545	0.1612	25.00	26.07	ug/L	4	40	0.0500	
1,3-Dichloropropane	0.3404	0.3493	25.00	25.66	ug/L	3	30	0.0500	
Tetrachloroethene	0.1384	0.1491	25.00	26.93	ug/L	8	30	0.0500	
Dibromochloromethane	0.1955	0.2025	25.00	25.89	ug/L	4	30	0.0500	
1,2-Dibromoethane	0.1890	0.1920	25.00	25.39	ug/L	2	30	0.0500	
Chlorobenzene	0.5112	0.5045	25.00	24.67	ug/L	-1	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1625	0.1676	25.00	25.79	ug/L	3	30	0.0500	
Ethylbenzene	0.8137	0.8017	25.00	24.63	ug/L	-1	20	0.0500	
m,p-Xylenes	0.2816	0.2763	50.00	49.05	ug/L	-2	30	0.0500	
o-Xylene	0.2836	0.2756	25.00	24.29	ug/L	-3	30	0.0500	
Styrene	0.4853	0.4873	25.00	25.10	ug/L	0	30	0.0500	
Bromoform	0.1281	0.1322	25.00	25.80	ug/L	3	30	0.1000	
Isopropylbenzene	1.9430	1.8906	25.00	24.33	ug/L	-3	30	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.8346	0.8573	25.00	25.68	ug/L	3	30	0.3000	
1,2,3-Trichloropropane	0.7227	0.6340	25.00	21.93	ug/L	-12	30	0.0500	
Propylbenzene	2.2344	2.1504	25.00	24.06	ug/L	-4	30	0.0500	
Bromobenzene	0.4963	0.4891	25.00	24.64	ug/L	-1	30	0.0500	
1,3,5-Trimethylbenzene	1.1936	1.1084	25.00	23.22	ug/L	-7	30	0.0500	
2-Chlorotoluene	1.6363	1.5406	25.00	23.54	ug/L	-6	30	0.0500	
4-Chlorotoluene	1.4484	1.3843	25.00	23.89	ug/L	-4	30	0.0500	
tert-Butylbenzene	1.2187	1.0838	25.00	22.23	ug/L	-11	30	0.0500	
1,2,4-Trimethylbenzene	1.0781	1.0037	25.00	23.28	ug/L	-7	30	0.0500	
sec-Butylbenzene	1.6623	1.6374	25.00	24.63	ug/L	-1	30	0.0500	
para-Isopropyl Toluene	1.0762	1.0587	25.00	24.59	ug/L	-2	30	0.0500	
1,3-Dichlorobenzene	0.8410	0.7841	25.00	23.31	ug/L	-7	30	0.0500	
1,4-Dichlorobenzene	0.8241	0.7778	25.00	23.60	ug/L	-6	30	0.0500	
n-Butylbenzene	0.8680	0.9039	25.00	26.03	ug/L	4	30	0.0500	
1,2-Dichlorobenzene	0.8004	0.7737	25.00	24.17	ug/L	-3	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1149	0.1192	25.00	24.14	ug/L	-3	30	0.0500	
1,2,4-Trichlorobenzene	0.1961	0.2174	25.00	24.80	ug/L	-1	30	0.0500	
Hexachlorobutadiene	0.1021	0.1332	25.00	30.63	ug/L	**23**	30	0.0500	!c+
Naphthalene	0.5990	0.5766	25.00	24.06	ug/L	-4	30	0.0500	
1,2,3-Trichlorobenzene	0.1797	0.2056	25.00	24.08	ug/L	-4	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0354	0.0353	250.0	249.4	ug/L	0	30	0.0050	
Isopropyl Ether (DIPE)	1.4686	1.4636	25.00	24.92	ug/L	0	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.1110	1.1198	25.00	25.20	ug/L	1	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.5203	0.5289	25.00	25.41	ug/L	2	30	0.0500	
Ethanol	0.0057	0.0056	2500	2470	ug/L	-1	30	5.0E-4	
Isopropanol	0.0255	0.0266	250.0	260.7	ug/L	4	30	0.0050	
Tetrahydrofuran	0.1208	0.1311	250.0	271.5	ug/L	9	30	0.0050	
Dibromofluoromethane	0.7230	0.7207	50.00	49.84	ug/L	0	30	0.0500	
1,2-Dichloroethane-d4	0.3764	0.3659	50.00	48.60	ug/L	-3	30	0.0500	
Trifluorotoluene	0.1728	0.1994	25.00	28.85	ug/L	15	30	0.0500	
Toluene-d8	1.0652	1.0597	50.00	49.74	ug/L	-1	30	0.0500	
Bromofluorobenzene	1.4167	1.4108	50.00	49.79	ug/L	0	30	0.0500	

ISTD (ICAL jcg15)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1223331	1370915	12.06	10.78	10.77	-0.01
1,4-Difluorobenzene	2533641	2805185	10.72	11.96	11.95	-0.01
Chlorobenzene-d5	2197520	2427617	10.47	15.94	15.95	0.01
1,4-Dichlorobenzene-d4	798026	855010	7.14	18.64	18.64	0.00

03/20/20

!=warning +=high bias c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA10 Run Name: 25PPB IDF : 1.0
Seqnum : 496110066009 File : jch09 Time : 17-MAR-2006 16:20
Cal : 496108554002 Caldate : 16-MAR-2006 Caltype : WATER
Standards: S2783 (20000X), S2844 (20000X), S2410 (40000X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.3069	0.4090	25.00	33.31	ug/L	**33**	30	0.0500	c+ ***
Chloromethane	0.5445	0.6316	25.00	29.00	ug/L	16	30	0.1000	
Vinyl Chloride	0.4778	0.5724	25.00	29.95	ug/L	20	20	0.0500	
Bromomethane	0.1994	0.2194	25.00	25.25	ug/L	1	30	0.0500	
Chloroethane	0.2984	0.3235	25.00	27.11	ug/L	8	30	0.0500	
Trichlorofluoromethane	0.4396	0.5032	25.00	28.62	ug/L	14	30	0.0500	
Acetone	0.1369	0.1243	25.00	22.71	ug/L	-9	40	0.0500	
Freon 113	0.2650	0.3491	25.00	33.73	ug/L	**35**	30	0.0500	c+ ***
1,1-Dichloroethene	0.2868	0.3138	25.00	27.35	ug/L	9	20	0.0500	
Methylene Chloride	0.4467	0.4234	25.00	23.69	ug/L	-5	30	0.0500	
Carbon Disulfide	1.3169	1.4188	25.00	26.94	ug/L	8	30	0.0500	
MTBE	1.1005	1.0903	25.00	24.77	ug/L	-1	30	0.0500	
trans-1,2-Dichloroethene	0.3627	0.3723	25.00	25.66	ug/L	3	30	0.0500	
Vinyl Acetate	1.0757	1.0758	25.00	26.82	ug/L	7	40	0.0500	m
1,1-Dichloroethane	0.6622	0.6527	25.00	24.64	ug/L	-1	30	0.1000	
2-Butanone	0.2084	0.1984	25.00	23.80	ug/L	-5	40	0.0500	
2,2-Dichloropropane	0.4068	0.4229	25.00	25.99	ug/L	4	30	0.0500	
cis-1,2-Dichloroethene	0.4072	0.4038	25.00	24.79	ug/L	-1	30	0.0500	
Chloroform	0.6201	0.6222	25.00	25.08	ug/L	0	20	0.0500	
Bromochloromethane	0.1997	0.2017	25.00	25.24	ug/L	1	30	0.0500	
1,1,1-Trichloroethane	0.4032	0.4330	25.00	26.84	ug/L	7	30	0.0500	
1,1-Dichloropropene	0.2124	0.2324	25.00	27.36	ug/L	9	30	0.0500	
Carbon Tetrachloride	0.1456	0.1687	25.00	28.97	ug/L	16	30	0.0500	
1,2-Dichloroethane	0.2324	0.2221	25.00	23.89	ug/L	-4	30	0.0500	
Benzene	0.6901	0.6967	25.00	25.24	ug/L	1	30	0.0500	
Trichloroethene	0.1736	0.1776	25.00	25.59	ug/L	2	30	0.0500	
1,2-Dichloropropane	0.2071	0.2054	25.00	24.81	ug/L	-1	20	0.0500	
Bromodichloromethane	0.2279	0.2305	25.00	25.28	ug/L	1	30	0.0500	
Dibromomethane	0.1337	0.1363	25.00	25.49	ug/L	2	30	0.0500	
2-Chloroethylvinylether	0.0015	0.0016	25.00	26.06	ug/L	4	40	0.0500	crf irf ***
4-Methyl-2-Pentanone	0.2200	0.2296	25.00	26.09	ug/L	4	40	0.0500	
Tetramethyl THF	0.4006	0.3758	25.00	23.45	ug/L	-6	30	0.0500	
cis-1,3-Dichloropropene	0.2997	0.3068	25.00	25.59	ug/L	2	30	0.0500	
Toluene	0.3938	0.4152	25.00	26.35	ug/L	5	20	0.0500	
trans-1,3-Dichloropropene	0.2548	0.2677	25.00	26.27	ug/L	5	30	0.0500	
1,1,2-Trichloroethane	0.0975	0.0974	25.00	24.98	ug/L	0	30	0.0500	
2-Hexanone	0.1545	0.1482	25.00	23.97	ug/L	-4	40	0.0500	
1,3-Dichloropropane	0.3404	0.3371	25.00	24.76	ug/L	-1	30	0.0500	
Tetrachloroethene	0.1384	0.1609	25.00	29.06	ug/L	16	30	0.0500	
Dibromochloromethane	0.1955	0.1989	25.00	25.44	ug/L	2	30	0.0500	
1,2-Dibromoethane	0.1890	0.1906	25.00	25.20	ug/L	1	30	0.0500	
Chlorobenzene	0.5112	0.5173	25.00	25.30	ug/L	1	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1625	0.1718	25.00	26.44	ug/L	6	30	0.0500	
Ethylbenzene	0.8137	0.8593	25.00	26.40	ug/L	6	20	0.0500	
m,p-Xylenes	0.2816	0.2908	50.00	51.62	ug/L	3	30	0.0500	
o-Xylene	0.2836	0.2889	25.00	25.46	ug/L	2	30	0.0500	
Styrene	0.4853	0.5036	25.00	25.94	ug/L	4	30	0.0500	
Bromoform	0.1281	0.1273	25.00	24.86	ug/L	-1	30	0.1000	
Isopropylbenzene	1.9430	2.1194	25.00	27.27	ug/L	9	30	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.8346	0.8681	25.00	26.00	ug/L	4	30	0.3000	
1,2,3-Trichloropropane	0.7227	0.7126	25.00	24.65	ug/L	-1	30	0.0500	
Propylbenzene	2.2344	2.3959	25.00	26.81	ug/L	7	30	0.0500	
Bromobenzene	0.4963	0.5090	25.00	25.64	ug/L	3	30	0.0500	
1,3,5-Trimethylbenzene	1.1936	1.2118	25.00	25.38	ug/L	2	30	0.0500	
2-Chlorotoluene	1.6363	1.6832	25.00	25.72	ug/L	3	30	0.0500	
4-Chlorotoluene	1.4484	1.4655	25.00	25.30	ug/L	1	30	0.0500	
tert-Butylbenzene	1.2187	1.2134	25.00	24.89	ug/L	0	30	0.0500	
1,2,4-Trimethylbenzene	1.0781	1.1116	25.00	25.78	ug/L	3	30	0.0500	
sec-Butylbenzene	1.6623	1.8905	25.00	28.43	ug/L	14	30	0.0500	
para-Isopropyl Toluene	1.0762	1.1950	25.00	27.76	ug/L	11	30	0.0500	
1,3-Dichlorobenzene	0.8410	0.8587	25.00	25.52	ug/L	2	30	0.0500	
1,4-Dichlorobenzene	0.8241	0.8331	25.00	25.28	ug/L	1	30	0.0500	
n-Butylbenzene	0.8680	0.9975	25.00	28.73	ug/L	15	30	0.0500	
1,2-Dichlorobenzene	0.8004	0.8272	25.00	25.84	ug/L	3	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1149	0.1233	25.00	25.01	ug/L	0	30	0.0500	
1,2,4-Trichlorobenzene	0.1961	0.2214	25.00	25.23	ug/L	1	30	0.0500	
Hexachlorobutadiene	0.1021	0.1400	25.00	32.15	ug/L	**29**	30	0.0500	!c+
Naphthalene	0.5990	0.5974	25.00	24.93	ug/L	0	30	0.0500	
1,2,3-Trichlorobenzene	0.1797	0.2088	25.00	24.43	ug/L	-2	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0354	0.0352	250.0	248.6	ug/L	-1	30	0.0050	
Isopropyl Ether (DIPE)	1.4686	1.4366	25.00	24.46	ug/L	-2	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.1110	1.1004	25.00	24.76	ug/L	-1	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.5203	0.5339	25.00	25.65	ug/L	3	30	0.0500	
Ethanol	0.0057	0.0055	2500	2442	ug/L	-2	30	5.0E-4	
Isopropanol	0.0255	0.0268	250.0	262.6	ug/L	5	30	0.0050	
Tetrahydrofuran	0.1208	0.1153	250.0	238.7	ug/L	-5	30	0.0050	
Dibromofluoromethane	0.7230	0.6977	50.00	48.25	ug/L	-4	30	0.0500	
1,2-Dichloroethane-d4	0.3764	0.3611	50.00	47.97	ug/L	-4	30	0.0500	
Trifluorotoluene	0.1728	0.2116	25.00	30.62	ug/L	**22**	30	0.0500	!c+
Toluene-d8	1.0652	1.0689	50.00	50.17	ug/L	0	30	0.0500	
Bromofluorobenzene	1.4167	1.4054	50.00	49.60	ug/L	-1	30	0.0500	

ISTD (ICAL jcg15)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1223331	1382298	12.99	10.78	10.78	0.01
1,4-Difluorobenzene	2533641	2796997	10.39	11.96	11.96	0.00
Chlorobenzene-d5	2197520	2435375	10.82	15.94	15.94	0.00
1,4-Dichlorobenzene-d4	798026	832599	4.33	18.64	18.64	0.00

03/20/06

3/17/06

!=warning +=high bias c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA08 Run Name: 40 PPB IDF : 1.0
Seqnum : 476114203003 File : hck03 Time : 20-MAR-2006 08:22
Cal : 476046588001 Caldate : 01-FEB-2006 Caltype : WATER
Standards: S2844 (12500X), S2783 (12500X), S2410 (25000X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.5796	0.5782	40.00	36.48	ug/L	-9	30	0.0500	
Chloromethane	0.9006	0.7887	40.00	35.03	ug/L	-12	30	0.1000	
Vinyl Chloride	0.6624	0.6987	40.00	42.19	ug/L	5	20	0.0500	
Bromomethane	0.2589	0.1567	40.00	21.25	ug/L	**-47**	30	0.0500	c- m ***
Chloroethane	0.3907	0.3944	40.00	40.38	ug/L	1	30	0.0500	
Trichlorofluoromethane	0.4825	0.6132	40.00	50.84	ug/L	**27**	30	0.0500	!c+
Acetone	0.3021	0.2983	40.00	39.50	ug/L	-1	40	0.0500	
Freon 113	0.3302	0.4077	40.00	37.46	ug/L	-6	30	0.0500	
1,1-Dichloroethene	0.3600	0.3362	40.00	37.35	ug/L	-7	20	0.0500	
Methylene Chloride	0.5823	0.4574	40.00	31.42	ug/L	**-21**	30	0.0500	!c-
Carbon Disulfide	1.7971	1.6088	40.00	35.81	ug/L	-10	30	0.0500	
MTBE	1.4527	1.4607	40.00	40.22	ug/L	1	30	0.0500	
trans-1,2-Dichloroethene	0.4543	0.4003	40.00	35.24	ug/L	-12	30	0.0500	
Vinyl Acetate	1.6426	1.7671	40.00	43.03	ug/L	8	40	0.0500	
1,1-Dichloroethane	1.0006	0.9304	40.00	37.19	ug/L	-7	30	0.1000	
2-Butanone	0.4575	0.4187	40.00	36.60	ug/L	-8	40	0.0500	
2,2-Dichloropropane	0.5854	0.6355	40.00	43.42	ug/L	9	30	0.0500	
cis-1,2-Dichloroethene	0.4992	0.4428	40.00	35.48	ug/L	-11	30	0.0500	
Chloroform	0.8302	0.7914	40.00	38.13	ug/L	-5	20	0.0500	
Bromochloromethane	0.2270	0.2001	40.00	35.26	ug/L	-12	30	0.0500	
1,1,1-Trichloroethane	0.5226	0.5638	40.00	43.16	ug/L	8	30	0.0500	
1,1-Dichloropropene	0.2840	0.2975	40.00	37.95	ug/L	-5	30	0.0500	
Carbon Tetrachloride	0.1859	0.2075	40.00	38.79	ug/L	-3	30	0.0500	
1,2-Dichloroethane	0.3470	0.3375	40.00	38.90	ug/L	-3	30	0.0500	
Benzene	0.8363	0.7823	40.00	37.42	ug/L	-6	30	0.0500	
Trichloroethene	0.2025	0.1958	40.00	38.66	ug/L	-3	30	0.0500	
1,2-Dichloropropane	0.2865	0.2574	40.00	35.94	ug/L	-10	20	0.0500	
Bromodichloromethane	0.3039	0.2857	40.00	37.60	ug/L	-6	30	0.0500	
Dibromomethane	0.1588	0.1436	40.00	36.17	ug/L	-10	30	0.0500	
2-Chloroethylvinylether	0.0733	0.0552	40.00	25.81	ug/L	**-35**	40	0.0500	!c-
4-Methyl-2-Pentanone	0.4139	0.3789	40.00	36.61	ug/L	-8	40	0.0500	
Tetramethyl THF	0.7071	0.7191	40.00	40.68	ug/L	2	30	0.0500	
cis-1,3-Dichloropropene	0.3937	0.3613	40.00	36.71	ug/L	-8	30	0.0500	
Toluene	0.4496	0.4172	40.00	37.12	ug/L	-7	20	0.0500	
trans-1,3-Dichloropropene	0.3620	0.3335	40.00	36.85	ug/L	-8	30	0.0500	
1,1,2-Trichloroethane	0.1200	0.1059	40.00	35.30	ug/L	-12	30	0.0500	
2-Hexanone	0.3361	0.3207	40.00	38.17	ug/L	-5	40	0.0500	
1,3-Dichloropropane	0.4573	0.4283	40.00	37.46	ug/L	-6	30	0.0500	
Tetrachloroethene	0.1551	0.1625	40.00	36.17	ug/L	-10	30	0.0500	
Dibromochloromethane	0.2193	0.2062	40.00	37.60	ug/L	-6	30	0.0500	
1,2-Dibromoethane	0.2117	0.1861	40.00	35.16	ug/L	-12	30	0.0500	
Chlorobenzene	0.5482	0.5064	40.00	36.95	ug/L	-8	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1843	0.1754	40.00	38.07	ug/L	-5	30	0.0500	
Ethylbenzene	0.9264	0.9160	40.00	39.55	ug/L	-1	20	0.0500	
m,p-Xylenes	0.3213	0.3230	80.00	80.42	ug/L	1	30	0.0500	
o-Xylene	0.3218	0.3110	40.00	38.65	ug/L	-3	30	0.0500	
Styrene	0.5822	0.5514	40.00	37.88	ug/L	-5	30	0.0500	
Bromoform	0.1450	0.1284	40.00	35.42	ug/L	-11	30	0.1000	
Isopropylbenzene	1.7784	1.8637	40.00	41.92	ug/L	5	30	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.8631	0.7711	40.00	35.74	ug/L	-11	30	0.3000	
1,2,3-Trichloropropane	0.1962	0.1865	40.00	38.00	ug/L	-5	30	0.0500	
Propylbenzene	2.3081	2.4541	40.00	42.53	ug/L	6	30	0.0500	
Bromobenzene	0.4470	0.4182	40.00	37.42	ug/L	-6	30	0.0500	
1,3,5-Trimethylbenzene	1.4355	1.4745	40.00	41.09	ug/L	3	30	0.0500	
2-Chlorotoluene	1.6443	1.6292	40.00	39.63	ug/L	-1	30	0.0500	
4-Chlorotoluene	1.5655	1.4966	40.00	38.24	ug/L	-4	30	0.0500	
tert-Butylbenzene	1.1200	1.1514	40.00	36.07	ug/L	-10	30	0.0500	
1,2,4-Trimethylbenzene	1.4917	1.4233	40.00	38.17	ug/L	-5	30	0.0500	
sec-Butylbenzene	1.8394	1.9654	40.00	36.73	ug/L	-8	30	0.0500	
para-Isopropyl Toluene	1.3712	1.3888	40.00	35.63	ug/L	-11	30	0.0500	
1,3-Dichlorobenzene	0.8196	0.7537	40.00	36.78	ug/L	-8	30	0.0500	
1,4-Dichlorobenzene	0.8520	0.7990	40.00	37.51	ug/L	-6	30	0.0500	
n-Butylbenzene	1.4409	1.4503	40.00	35.48	ug/L	-11	30	0.0500	
1,2-Dichlorobenzene	0.7873	0.7176	40.00	36.46	ug/L	-9	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1592	0.1362	40.00	34.22	ug/L	-14	30	0.0500	
1,2,4-Trichlorobenzene	0.3931	0.3368	40.00	34.27	ug/L	-14	30	0.0500	
Hexachlorobutadiene	0.1229	0.1263	40.00	33.61	ug/L	-16	30	0.0500	
Naphthalene	1.0879	1.0302	40.00	37.88	ug/L	-5	30	0.0500	
1,2,3-Trichlorobenzene	0.3826	0.3237	40.00	33.84	ug/L	-15	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0602	0.0555	400.0	368.9	ug/L	-8	30	0.0050	
Isopropyl Ether (DIPE)	2.5027	2.6147	40.00	41.79	ug/L	4	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.6278	1.6666	40.00	40.95	ug/L	2	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.7096	0.6502	40.00	36.65	ug/L	-8	30	0.0500	
Cyclohexanone	0.1257	0.1281	400.0	407.6	ug/L	2	30	0.0050	
Ethanol	0.0105	0.0099	4000	3744	ug/L	-6	30	5.0E-4	
Isopropanol	0.0534	0.0504	400.0	377.6	ug/L	-6	30	0.0050	
Tetrahydrofuran	0.2425	0.2291	400.0	377.9	ug/L	-6	30	0.0050	
Dibromofluoromethane	0.7768	0.7863	50.00	50.62	ug/L	1	30	0.0500	
1,2-Dichloroethane-d4	0.5078	0.5459	50.00	53.76	ug/L	8	30	0.0500	
Trifluorotoluene	0.1908	0.2025	40.00	36.31	ug/L	-9	30	0.0500	
Toluene-d8	1.1251	1.1189	50.00	49.72	ug/L	-1	30	0.0500	
Bromofluorobenzene	1.3034	1.2811	50.00	49.15	ug/L	-2	30	0.0500	

ISTD (ICAL hb115)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1400499	1361320	-2.80	10.48	10.48	0.00
1,4-Difluorobenzene	2944215	2932870	-0.39	11.61	11.61	0.00
Chlorobenzene-d5	2503542	2458626	-1.79	15.61	15.61	0.00
1,4-Dichlorobenzene-d4	1111278	1078926	-2.91	18.34	18.34	0.00

LW 3-20-06

3/21/06

!=warning +=high bias -=low bias c=CCV m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA08 Run Name: 40 PPB IDF : 1.0
Seqnum : 476114203011 File : hck11 Time : 20-MAR-2006 13:17
Cal : 476046588001 Caldate : 01-FEB-2006 Caltype : WATER
Standards: S2844 (12500X), S2783 (12500X), S2410 (25000X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.5796	0.5988	40.00	37.79	ug/L	-6	30	0.0500	
Chloromethane	0.9006	0.8639	40.00	38.37	ug/L	-4	30	0.1000	
Vinyl Chloride	0.6624	0.7429	40.00	44.86	ug/L	12	20	0.0500	
Bromomethane	0.2589	0.2175	40.00	28.95	ug/L	**-28**	30	0.0500	!c-
Chloroethane	0.3907	0.4187	40.00	42.86	ug/L	7	30	0.0500	
Trichlorofluoromethane	0.4825	0.6426	40.00	53.28	ug/L	**33**	30	0.0500	c+ ***
Acetone	0.3021	0.2829	40.00	37.45	ug/L	-6	40	0.0500	
Freon 113	0.3302	0.4150	40.00	38.11	ug/L	-5	30	0.0500	
1,1-Dichloroethene	0.3600	0.3496	40.00	38.84	ug/L	-3	20	0.0500	
Methylene Chloride	0.5823	0.4670	40.00	32.08	ug/L	-20	30	0.0500	
Carbon Disulfide	1.7971	1.6270	40.00	36.22	ug/L	-9	30	0.0500	
MTBE	1.4527	1.4126	40.00	38.90	ug/L	-3	30	0.0500	
trans-1,2-Dichloroethene	0.4543	0.4116	40.00	36.24	ug/L	-9	30	0.0500	
Vinyl Acetate	1.6426	1.7318	40.00	42.17	ug/L	5	40	0.0500	
1,1-Dichloroethane	1.0006	0.9808	40.00	39.21	ug/L	-2	30	0.1000	
2-Butanone	0.4575	0.3983	40.00	34.82	ug/L	-13	40	0.0500	
2,2-Dichloropropane	0.5854	0.5932	40.00	40.53	ug/L	1	30	0.0500	
cis-1,2-Dichloroethene	0.4992	0.4539	40.00	36.37	ug/L	-9	30	0.0500	
Chloroform	0.8302	0.8194	40.00	39.48	ug/L	-1	20	0.0500	
Bromochloromethane	0.2270	0.2026	40.00	35.69	ug/L	-11	30	0.0500	
1,1,1-Trichloroethane	0.5226	0.5858	40.00	44.84	ug/L	12	30	0.0500	
1,1-Dichloropropene	0.2840	0.3040	40.00	38.78	ug/L	-3	30	0.0500	
Carbon Tetrachloride	0.1859	0.2104	40.00	39.31	ug/L	-2	30	0.0500	
1,2-Dichloroethane	0.3470	0.3426	40.00	39.49	ug/L	-1	30	0.0500	
Benzene	0.8363	0.7926	40.00	37.91	ug/L	-5	30	0.0500	
Trichloroethene	0.2025	0.2005	40.00	39.59	ug/L	-1	30	0.0500	
1,2-Dichloropropane	0.2865	0.2631	40.00	36.74	ug/L	-8	20	0.0500	
Bromodichloromethane	0.3039	0.2903	40.00	38.21	ug/L	-4	30	0.0500	
Dibromomethane	0.1588	0.1453	40.00	36.60	ug/L	-9	30	0.0500	
2-Chloroethylvinylether	0.0733	0.0598	40.00	27.73	ug/L	**-31**	40	0.0500	!c-
4-Methyl-2-Pentanone	0.4139	0.3734	40.00	36.09	ug/L	-10	40	0.0500	
Tetramethyl THF	0.7071	0.7142	40.00	40.40	ug/L	1	30	0.0500	
cis-1,3-Dichloropropene	0.3937	0.3592	40.00	36.49	ug/L	-9	30	0.0500	
Toluene	0.4496	0.4302	40.00	38.28	ug/L	-4	20	0.0500	
trans-1,3-Dichloropropene	0.3620	0.3248	40.00	35.89	ug/L	-10	30	0.0500	
1,1,2-Trichloroethane	0.1200	0.1072	40.00	35.74	ug/L	-11	30	0.0500	
2-Hexanone	0.3361	0.3054	40.00	36.35	ug/L	-9	40	0.0500	
1,3-Dichloropropane	0.4573	0.4109	40.00	35.94	ug/L	-10	30	0.0500	
Tetrachloroethene	0.1551	0.1598	40.00	35.57	ug/L	-11	30	0.0500	
Dibromochloromethane	0.2193	0.2030	40.00	37.02	ug/L	-7	30	0.0500	
1,2-Dibromoethane	0.2117	0.1866	40.00	35.26	ug/L	-12	30	0.0500	
Chlorobenzene	0.5482	0.5030	40.00	36.70	ug/L	-8	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1843	0.1717	40.00	37.27	ug/L	-7	30	0.0500	
Ethylbenzene	0.9264	0.9319	40.00	40.24	ug/L	1	20	0.0500	
m,p-Xylenes	0.3213	0.3273	80.00	81.51	ug/L	2	30	0.0500	
o-Xylene	0.3218	0.3136	40.00	38.98	ug/L	-3	30	0.0500	
Styrene	0.5822	0.5555	40.00	38.16	ug/L	-5	30	0.0500	
Bromoform	0.1450	0.1245	40.00	34.36	ug/L	-14	30	0.1000	
Isopropylbenzene	1.7784	1.8816	40.00	42.32	ug/L	6	30	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.8631	0.7713	40.00	35.75	ug/L	-11	30	0.3000	
1,2,3-Trichloropropane	0.1962	0.1776	40.00	36.20	ug/L	-9	30	0.0500	
Propylbenzene	2.3081	2.5238	40.00	43.74	ug/L	9	30	0.0500	
Bromobenzene	0.4470	0.4223	40.00	37.79	ug/L	-6	30	0.0500	
1,3,5-Trimethylbenzene	1.4355	1.5133	40.00	42.17	ug/L	5	30	0.0500	
2-Chlorotoluene	1.6443	1.6535	40.00	40.22	ug/L	1	30	0.0500	
4-Chlorotoluene	1.5655	1.5290	40.00	39.07	ug/L	-2	30	0.0500	
tert-Butylbenzene	1.1200	1.2245	40.00	38.33	ug/L	-4	30	0.0500	
1,2,4-Trimethylbenzene	1.4917	1.4769	40.00	39.60	ug/L	-1	30	0.0500	
sec-Butylbenzene	1.8394	2.0298	40.00	37.92	ug/L	-5	30	0.0500	
para-Isopropyl Toluene	1.3712	1.4219	40.00	36.47	ug/L	-9	30	0.0500	
1,3-Dichlorobenzene	0.8196	0.7631	40.00	37.24	ug/L	-7	30	0.0500	
1,4-Dichlorobenzene	0.8520	0.8079	40.00	37.93	ug/L	-5	30	0.0500	
n-Butylbenzene	1.4409	1.4734	40.00	36.05	ug/L	-10	30	0.0500	
1,2-Dichlorobenzene	0.7873	0.7302	40.00	37.10	ug/L	-7	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1592	0.1343	40.00	33.75	ug/L	-16	30	0.0500	
1,2,4-Trichlorobenzene	0.3931	0.3369	40.00	34.28	ug/L	-14	30	0.0500	
Hexachlorobutadiene	0.1229	0.1246	40.00	33.16	ug/L	-17	30	0.0500	
Naphthalene	1.0879	1.0168	40.00	37.39	ug/L	-7	30	0.0500	
1,2,3-Trichlorobenzene	0.3826	0.3250	40.00	33.98	ug/L	-15	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0602	0.0560	400.0	372.0	ug/L	-7	30	0.0050	
Isopropyl Ether (DIPE)	2.5027	2.6719	40.00	42.70	ug/L	7	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.6278	1.6948	40.00	41.65	ug/L	4	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.7096	0.6526	40.00	36.79	ug/L	-8	30	0.0500	
Cyclohexanone	0.1257	0.0940	400.0	299.1	ug/L	**-25**	30	0.0050	!c-
Ethanol	0.0105	0.0099	4000	3744	ug/L	-6	30	5.0E-4	
Isopropanol	0.0534	0.0507	400.0	379.9	ug/L	-5	30	0.0050	
Tetrahydrofuran	0.2425	0.2294	400.0	378.3	ug/L	-5	30	0.0050	
Dibromofluoromethane	0.7768	0.7998	50.00	51.49	ug/L	3	30	0.0500	
1,2-Dichloroethane-d4	0.5078	0.5635	50.00	55.49	ug/L	11	30	0.0500	
Trifluorotoluene	0.1908	0.1986	40.00	35.61	ug/L	-11	30	0.0500	
Toluene-d8	1.1251	1.1454	50.00	50.90	ug/L	2	30	0.0500	
Bromofluorobenzene	1.3034	1.2912	50.00	49.53	ug/L	-1	30	0.0500	

ISTD (ICAL hb115)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1400499	1304806	-6.83	10.48	10.48	0.00
1,4-Difluorobenzene	2944215	2810081	-4.56	11.61	11.61	0.00
Chlorobenzene-d5	2503542	2390559	-4.51	15.61	15.62	0.01
1,4-Dichlorobenzene-d4	1111278	1034981	-6.87	18.34	18.33	-0.01

LW 3-20-06

!=warning +=high bias -=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA06 Run Name: 40PPB IDF : 1.0
Seqnum : 456115675003 File : fcl03 Time : 21-MAR-2006 08:45
Cal : 456098395001 Caldate : 09-MAR-2006 Caltype : WATER
Standards: S2844 (12500X), S2783 (12500X), S2410 (25000X), S2740 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.8758	1.0350	40.00	47.27	ug/L	18	30	0.0500	
Chloromethane	0.8831	0.8254	40.00	37.39	ug/L	-7	30	0.1000	
Vinyl Chloride	0.7006	0.7315	40.00	41.76	ug/L	4	20	0.0500	
Bromomethane	0.4629	0.4642	40.00	40.11	ug/L	0	30	0.0500	
Chloroethane	0.3861	0.3845	40.00	39.83	ug/L	0	30	0.0500	
Trichlorofluoromethane	0.9702	1.1021	40.00	45.44	ug/L	14	30	0.0500	
Acetone	0.3588	0.4233	40.00	47.19	ug/L	18	40	0.0500	
Freon 113	0.4860	0.3885	40.00	29.30	ug/L	**-27**	30	0.0500	!c-
1,1-Dichloroethene	0.5785	0.5102	40.00	35.28	ug/L	-12	20	0.0500	
Methylene Chloride	0.8432	0.8821	40.00	41.85	ug/L	5	30	0.0500	
Carbon Disulfide	2.3558	2.2154	40.00	37.62	ug/L	-6	30	0.0500	
MTBE	2.3661	2.4144	40.00	40.82	ug/L	2	30	0.0500	
trans-1,2-Dichloroethene	0.7174	0.6738	40.00	37.57	ug/L	-6	30	0.0500	
Vinyl Acetate	2.1122	2.4924	40.00	47.20	ug/L	18	40	0.0500	
1,1-Dichloroethane	1.3283	1.3483	40.00	40.60	ug/L	2	30	0.1000	
2-Butanone	0.5094	0.6022	40.00	47.29	ug/L	18	40	0.0500	
2,2-Dichloropropane	0.8606	0.9136	40.00	42.47	ug/L	6	30	0.0500	
cis-1,2-Dichloroethene	0.8444	0.8013	40.00	37.96	ug/L	-5	30	0.0500	
Chloroform	1.3107	1.3541	40.00	41.33	ug/L	3	20	0.0500	
Bromochloromethane	0.3941	0.4244	40.00	43.08	ug/L	8	30	0.0500	
1,1,1-Trichloroethane	0.8608	0.7194	40.00	33.43	ug/L	-16	30	0.0500	
1,1-Dichloropropene	0.4704	0.4151	40.00	35.30	ug/L	-12	30	0.0500	
Carbon Tetrachloride	0.3261	0.2982	40.00	36.57	ug/L	-9	30	0.0500	
1,2-Dichloroethane	0.5232	0.5476	40.00	41.87	ug/L	5	30	0.0500	
Benzene	1.5622	1.5226	40.00	38.99	ug/L	-3	30	0.0500	
Trichloroethene	0.3692	0.3393	40.00	36.77	ug/L	-8	30	0.0500	
1,2-Dichloropropane	0.4513	0.4477	40.00	39.68	ug/L	-1	20	0.0500	
Bromodichloromethane	0.5305	0.5641	40.00	42.54	ug/L	6	30	0.0500	
Dibromomethane	0.3124	0.3247	40.00	41.58	ug/L	4	30	0.0500	
2-Chloroethylvinylether	0.0301	0.0080	40.00	10.69	ug/L	**-73**	40	0.0500	c- crf irf rsd ***
4-Methyl-2-Pentanone	0.5545	0.6006	40.00	43.32	ug/L	8	40	0.0500	
Tetramethyl THF	0.9678	0.9983	40.00	41.26	ug/L	3	30	0.0500	
cis-1,3-Dichloropropene	0.6778	0.7154	40.00	42.22	ug/L	6	30	0.0500	
Toluene	0.8800	0.8303	40.00	37.74	ug/L	-6	20	0.0500	
trans-1,3-Dichloropropene	0.6256	0.6640	40.00	42.45	ug/L	6	30	0.0500	
1,1,2-Trichloroethane	0.2283	0.2350	40.00	41.16	ug/L	3	30	0.0500	
2-Hexanone	0.4698	0.5258	40.00	44.77	ug/L	12	40	0.0500	
1,3-Dichloropropane	0.8366	0.8671	40.00	41.46	ug/L	4	30	0.0500	
Tetrachloroethene	0.3445	0.3004	40.00	34.89	ug/L	-13	30	0.0500	
Dibromochloromethane	0.4736	0.5280	40.00	44.60	ug/L	11	30	0.0500	
1,2-Dibromoethane	0.4288	0.4478	40.00	41.77	ug/L	4	30	0.0500	
Chlorobenzene	1.0998	1.1156	40.00	40.58	ug/L	1	30	0.3000	
1,1,1,2-Tetrachloroethane	0.4076	0.4101	40.00	40.25	ug/L	1	30	0.0500	
Ethylbenzene	1.8069	1.7092	40.00	37.84	ug/L	-5	20	0.0500	
m,p-Xylenes	0.6428	0.5899	80.00	73.41	ug/L	-8	30	0.0500	
o-Xylene	0.6565	0.6309	40.00	38.44	ug/L	-4	30	0.0500	
Styrene	1.1624	1.1814	40.00	40.66	ug/L	2	30	0.0500	
Bromoform	0.3842	0.4108	40.00	42.77	ug/L	7	30	0.1000	
Isopropylbenzene	3.0248	2.4937	40.00	32.98	ug/L	-18	30	0.0500	

3/21/06

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.4808	1.5476	40.00	41.80	ug/L	5	30	0.3000	
1,2,3-Trichloropropane	1.2054	1.2073	40.00	40.06	ug/L	0	30	0.0500	
Propylbenzene	3.7416	3.1863	40.00	34.06	ug/L	-15	30	0.0500	
Bromobenzene	1.0284	1.0206	40.00	39.70	ug/L	-1	30	0.0500	
1,3,5-Trimethylbenzene	2.1948	2.0005	40.00	36.46	ug/L	-9	30	0.0500	
2-Chlorotoluene	2.8627	2.6419	40.00	36.91	ug/L	-8	30	0.0500	
4-Chlorotoluene	2.6572	2.5269	40.00	38.04	ug/L	-5	30	0.0500	
tert-Butylbenzene	1.7779	1.4650	40.00	32.96	ug/L	-18	30	0.0500	
1,2,4-Trimethylbenzene	2.0875	1.9968	40.00	38.26	ug/L	-4	30	0.0500	
sec-Butylbenzene	2.4829	2.1002	40.00	33.83	ug/L	-15	30	0.0500	
para-Isopropyl Toluene	1.7295	1.5613	40.00	36.11	ug/L	-10	30	0.0500	
1,3-Dichlorobenzene	1.5895	1.5494	40.00	38.99	ug/L	-3	30	0.0500	
1,4-Dichlorobenzene	1.6202	1.6158	40.00	39.89	ug/L	0	30	0.0500	
n-Butylbenzene	1.3453	1.3167	40.00	39.15	ug/L	-2	30	0.0500	
1,2-Dichlorobenzene	1.5850	1.5705	40.00	39.63	ug/L	-1	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.2746	0.2725	40.00	42.58	ug/L	6	30	0.0500	
1,2,4-Trichlorobenzene	0.3669	0.4835	40.00	43.44	ug/L	9	30	0.0500	
Hexachlorobutadiene	0.1698	0.2013	40.00	40.02	ug/L	0	30	0.0500	
Naphthalene	1.3059	1.6064	40.00	42.99	ug/L	7	30	0.0500	
1,2,3-Trichlorobenzene	0.3141	0.4693	40.00	43.44	ug/L	9	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0759	0.0874	400.0	460.7	ug/L	15	30	0.0050	
Isopropyl Ether (DIPE)	3.2114	3.2619	40.00	40.63	ug/L	2	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	2.3697	2.4135	40.00	40.74	ug/L	2	30	0.0500	
Methyl tert-Amyl Ether (TAME)	1.2404	1.2615	40.00	40.68	ug/L	2	30	0.0500	
Ethanol	0.0103	0.0119	4000	4631	ug/L	16	30	5.0E-4	
Isopropanol	0.0549	0.0642	400.0	467.4	ug/L	17	30	0.0050	
Tetrahydrofuran	0.2787	0.2885	400.0	414.0	ug/L	4	30	0.0050	
Dibromofluoromethane	0.6665	0.6443	50.00	48.33	ug/L	-3	30	0.0500	
1,2-Dichloroethane-d4	0.4034	0.4164	50.00	51.61	ug/L	3	30	0.0500	
Trifluorotoluene	0.4068	0.3527	40.00	34.68	ug/L	-13	30	0.0500	
Toluene-d8	1.0888	1.0864	50.00	49.89	ug/L	0	30	0.0500	
Bromofluorobenzene	1.1972	1.1613	50.00	48.50	ug/L	-3	30	0.0500	

ISTD (ICAL fc921)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	957753	922074	-3.73	12.35	12.33	-0.02
1,4-Difluorobenzene	1704082	1693327	-0.63	13.66	13.64	-0.02
Chlorobenzene-d5	1422227	1394510	-1.95	18.32	18.30	-0.02
1,4-Dichlorobenzene-d4	701343	691782	-1.36	21.16	21.14	-0.02

!-warning -=low bias c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure rsd=ICAL %RSD failure

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA06 Run Name: 40PPB IDF : 1.0
Seqnum : 456115675007 File : fcl07 Time : 21-MAR-2006 11:02
Cal : 456098395001 Caldate : 09-MAR-2006 Caltype : WATER
Standards: S2740 (1000X), S2844 (12500X), S2783 (12500X), S2410 (25000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.8758	0.9286	40.00	42.41	ug/L	6	30	0.0500	
Chloromethane	0.8831	0.7357	40.00	33.32	ug/L	-17	30	0.1000	
Vinyl Chloride	0.7006	0.6549	40.00	37.39	ug/L	-7	20	0.0500	
Bromomethane	0.4629	0.4194	40.00	36.24	ug/L	-9	30	0.0500	
Chloroethane	0.3861	0.3526	40.00	36.53	ug/L	-9	30	0.0500	
Trichlorofluoromethane	0.9702	0.9930	40.00	40.94	ug/L	2	30	0.0500	
Acetone	0.3588	0.3702	40.00	41.27	ug/L	3	40	0.0500	
Freon 113	0.4860	0.3449	40.00	26.17	ug/L	-35	30	0.0500	c- ***
1,1-Dichloroethene	0.5785	0.4671	40.00	32.30	ug/L	-19	20	0.0500	
Methylene Chloride	0.8432	0.7963	40.00	37.78	ug/L	-6	30	0.0500	
Carbon Disulfide	2.3558	1.9795	40.00	33.61	ug/L	-16	30	0.0500	
MTBE	2.3661	2.2837	40.00	38.61	ug/L	-3	30	0.0500	
trans-1,2-Dichloroethene	0.7174	0.6199	40.00	34.57	ug/L	-14	30	0.0500	
Vinyl Acetate	2.1122	2.1602	40.00	40.91	ug/L	2	40	0.0500	
1,1-Dichloroethane	1.3283	1.1910	40.00	35.87	ug/L	-10	30	0.1000	
2-Butanone	0.5094	0.5329	40.00	41.84	ug/L	5	40	0.0500	
2,2-Dichloropropane	0.8606	0.7760	40.00	36.07	ug/L	-10	30	0.0500	
cis-1,2-Dichloroethene	0.8444	0.7445	40.00	35.27	ug/L	-12	30	0.0500	
Chloroform	1.3107	1.2125	40.00	37.00	ug/L	-7	20	0.0500	
Bromochloromethane	0.3941	0.3860	40.00	39.18	ug/L	-2	30	0.0500	
1,1,1-Trichloroethane	0.8608	0.7042	40.00	32.72	ug/L	-18	30	0.0500	
1,1-Dichloropropene	0.4704	0.3910	40.00	33.25	ug/L	-17	30	0.0500	
Carbon Tetrachloride	0.3261	0.2748	40.00	33.70	ug/L	-16	30	0.0500	
1,2-Dichloroethane	0.5232	0.5185	40.00	39.64	ug/L	-1	30	0.0500	
Benzene	1.5622	1.4116	40.00	36.14	ug/L	-10	30	0.0500	
Trichloroethene	0.3692	0.3244	40.00	35.14	ug/L	-12	30	0.0500	
1,2-Dichloropropane	0.4513	0.4205	40.00	37.27	ug/L	-7	20	0.0500	
Bromodichloromethane	0.5305	0.5382	40.00	40.58	ug/L	1	30	0.0500	
Dibromomethane	0.3124	0.3150	40.00	40.33	ug/L	1	30	0.0500	
2-Chloroethylvinylether	0.0301	0.0070	40.00	9.263	ug/L	-77	40	0.0500	c- crf irf rsd ***
4-Methyl-2-Pentanone	0.5545	0.5648	40.00	40.74	ug/L	2	40	0.0500	
Tetramethyl THF	0.9678	0.9573	40.00	39.56	ug/L	-1	30	0.0500	
cis-1,3-Dichloropropene	0.6778	0.6784	40.00	40.04	ug/L	0	30	0.0500	
Toluene	0.8800	0.7846	40.00	35.66	ug/L	-11	20	0.0500	
trans-1,3-Dichloropropene	0.6256	0.6242	40.00	39.91	ug/L	0	30	0.0500	
1,1,2-Trichloroethane	0.2283	0.2197	40.00	38.49	ug/L	-4	30	0.0500	
2-Hexanone	0.4698	0.4813	40.00	40.98	ug/L	2	40	0.0500	
1,3-Dichloropropane	0.8366	0.8141	40.00	38.92	ug/L	-3	30	0.0500	
Tetrachloroethene	0.3445	0.2803	40.00	32.55	ug/L	-19	30	0.0500	
Dibromochloromethane	0.4736	0.5033	40.00	42.51	ug/L	6	30	0.0500	
1,2-Dibromoethane	0.4288	0.4277	40.00	39.90	ug/L	0	30	0.0500	
Chlorobenzene	1.0998	1.0221	40.00	37.17	ug/L	-7	30	0.3000	
1,1,1,2-Tetrachloroethane	0.4076	0.3876	40.00	38.04	ug/L	-5	30	0.0500	
Ethylbenzene	1.8069	1.5847	40.00	35.08	ug/L	-12	20	0.0500	
m,p-Xylenes	0.6428	0.5509	80.00	68.56	ug/L	-14	30	0.0500	
o-Xylene	0.6565	0.5939	40.00	36.19	ug/L	-10	30	0.0500	
Styrene	1.1624	1.0853	40.00	37.35	ug/L	-7	30	0.0500	
Bromoform	0.3842	0.3971	40.00	41.34	ug/L	3	30	0.1000	
Isopropylbenzene	3.0248	2.3300	40.00	30.81	ug/L	-23	30	0.0500	!c-

A 03/22/06 RS 3/21/06

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.4808	1.4277	40.00	38.57	ug/L	-4	30	0.3000	
1,2,3-Trichloropropane	1.2054	1.1251	40.00	37.34	ug/L	-7	30	0.0500	
Propylbenzene	3.7416	2.9063	40.00	31.07	ug/L	**-22**	30	0.0500	!c-
Bromobenzene	1.0284	0.9580	40.00	37.26	ug/L	-7	30	0.0500	
1,3,5-Trimethylbenzene	2.1948	1.8403	40.00	33.54	ug/L	-16	30	0.0500	
2-Chlorotoluene	2.8627	2.4245	40.00	33.88	ug/L	-15	30	0.0500	
4-Chlorotoluene	2.6572	2.2623	40.00	34.06	ug/L	-15	30	0.0500	
tert-Butylbenzene	1.7779	1.3250	40.00	29.81	ug/L	**-25**	30	0.0500	!c-
1,2,4-Trimethylbenzene	2.0875	1.8485	40.00	35.42	ug/L	-11	30	0.0500	
sec-Butylbenzene	2.4829	1.8517	40.00	29.83	ug/L	**-25**	30	0.0500	!c-
para-Isopropyl Toluene	1.7295	1.3897	40.00	32.14	ug/L	-20	30	0.0500	
1,3-Dichlorobenzene	1.5895	1.4639	40.00	36.84	ug/L	-8	30	0.0500	
1,4-Dichlorobenzene	1.6202	1.4888	40.00	36.76	ug/L	-8	30	0.0500	
n-Butylbenzene	1.3453	1.1093	40.00	32.98	ug/L	-18	30	0.0500	
1,2-Dichlorobenzene	1.5850	1.4836	40.00	37.44	ug/L	-6	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.2746	0.2489	40.00	38.68	ug/L	-3	30	0.0500	
1,2,4-Trichlorobenzene	0.3669	0.4202	40.00	38.52	ug/L	-4	30	0.0500	
Hexachlorobutadiene	0.1698	0.1385	40.00	28.33	ug/L	**-29**	30	0.0500	!c-
Naphthalene	1.3059	1.4999	40.00	40.41	ug/L	1	30	0.0500	
1,2,3-Trichlorobenzene	0.3141	0.4200	40.00	39.51	ug/L	-1	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0759	0.0759	400.0	400.0	ug/L	0	30	0.0050	
Isopropyl Ether (DIPE)	3.2114	3.1062	40.00	38.69	ug/L	-3	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	2.3697	2.2213	40.00	37.49	ug/L	-6	30	0.0500	
Methyl tert-Amyl Ether (TAME)	1.2404	1.2065	40.00	38.91	ug/L	-3	30	0.0500	
Ethanol	0.0103	0.0097	4000	3799	ug/L	-5	30	5.0E-4	
Isopropanol	0.0549	0.0534	400.0	388.6	ug/L	-3	30	0.0050	
Tetrahydrofuran	0.2787	0.2632	400.0	377.8	ug/L	-6	30	0.0050	
Dibromofluoromethane	0.6665	0.6656	50.00	49.93	ug/L	0	30	0.0500	
1,2-Dichloroethane-d4	0.4034	0.4089	50.00	50.67	ug/L	1	30	0.0500	
Trifluorotoluene	0.4068	0.3331	40.00	32.75	ug/L	-18	30	0.0500	
Toluene-d8	1.0888	1.0912	50.00	50.11	ug/L	0	30	0.0500	
Bromofluorobenzene	1.1972	1.1329	50.00	47.31	ug/L	-5	30	0.0500	

ISTD (ICAL fc921)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	957753	977222	2.03	12.35	12.33	-0.02
1,4-Difluorobenzene	1704082	1710416	0.37	13.66	13.65	-0.01
Chlorobenzene-d5	1422227	1427362	0.36	18.32	18.31	-0.01
1,4-Dichlorobenzene-d4	701343	719141	2.54	21.16	21.14	-0.02

!=warning -=low bias c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure rsd=ICAL %RSD failure

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 16-MAR-2006
Sequence: 456108478 (fcg)
Instrument ID: MSVOA06

ICAL Filename: fc921
Date Analyzed: 09-MAR-2006
Time Analyzed: 19:47

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	957753	12.35	1704082	13.66	1422227	18.32	701343	21.16
LOWER LIMIT	478877	11.85	852041	13.16	711114	17.82	350672	20.66
UPPER LIMIT	1915506	12.85	3408164	14.16	2844454	18.82	1402686	21.66

TYPE	SAMPLE	#								
CCV	30PPB	003	812438	12.32	1438783	13.64	1201988	18.30	601557	21.14
LCS	QC331743	004	837582	12.32	1489586	13.64	1225722	18.30	620943	21.14
BLANK	QC331744	006	797304	12.32	1434177	13.64	1191341	18.31	528981	21.15
SAMPLE	185558-001	007	778544	12.32	1392462	13.64	1190555	18.31	533446	21.14
SAMPLE	185558-002	008	775692	12.32	1416040	13.64	1208423	18.31	519184	21.14
SAMPLE	185558-003	009	759494	12.32	1413851	13.64	1152188	18.31	508474	21.15
SAMPLE	185558-004	010	763158	12.32	1393587	13.64	1169610	18.30	515067	21.14
SAMPLE	185558-005	011	756969	12.32	1382023	13.64	1167331	18.30	513718	21.15
SAMPLE	185558-006	012	758113	12.33	1382888	13.65	1142533	18.31	500927	21.15
SAMPLE	185558-007	013	756480	12.33	1372161	13.64	1153451	18.31	496839	21.15
SAMPLE	185525-001	014	731519	12.32	1366690	13.64	1151618	18.30	502527	21.15
MSS	185525-002	015	749008	12.32	1354899	13.64	1152082	18.30	496630	21.15
SAMPLE	185521-001	016	730375	12.33	1354599	13.65	1128936	18.31	503116	21.14
SAMPLE	185527-004	017	728986	12.33	1371099	13.64	1102161	18.31	476049	21.15
SAMPLE	185527-001	018	749394	12.33	1387082	13.65	1177795	18.31	507248	21.15
SAMPLE	185538-001	019	709950	12.34	1346177	13.65	1128084	18.31	522208	21.15
SAMPLE	185593-001	020	720848	12.33	1349088	13.65	1115652	18.31	495787	21.15
MS	QC331745	021	726629	12.33	1357804	13.65	1131897	18.31	565538	21.15
MSD	QC331746	022	711098	12.33	1373453	13.64	1139834	18.30	566998	21.15

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 17-MAR-2006
Sequence: 476109882 (hch)
Instrument ID: MSVOA08

ICAL Filename: hb115
Date Analyzed: 01-FEB-2006
Time Analyzed: 19:01

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	1400499	10.48	2944215	11.61	2503542	15.61	1111278	18.34
LOWER LIMIT	700250	9.98	1472108	11.11	1251771	15.11	555639	17.84
UPPER LIMIT	2800998	10.98	5888430	12.11	5007084	16.11	2222556	18.84

TYPE	SAMPLE	#								
CCV	50 PPB	003	1374515	10.48	2948514	11.61	2563293	15.61	1112143	18.34
BS	QC331889	004	1485791	10.48	3080987	11.61	2620979	15.62	1108474	18.33
BSD	QC331890	005	1485463	10.48	3153186	11.61	2649373	15.61	1107694	18.34
BLANK	QC331891	007	1451835	10.48	3085282	11.61	2555772	15.62	1035752	18.33
SAMPLE	185538-001	008	1383121	10.48	2945993	11.61	2485761	15.61	998563	18.34
SAMPLE	185569-001	009	1341757	10.48	2900685	11.61	2438204	15.61	964403	18.34
CCV	30 PPB	011	1388522	10.48	2969121	11.61	2524964	15.62	1074869	18.33
BLANK	QC331892	013	1328254	10.48	2889764	11.61	2426566	15.61	973889	18.33
SAMPLE	185558-016	014	1318810	10.48	2871011	11.61	2394921	15.61	949910	18.34
SAMPLE	185558-017	015	1300464	10.48	2814890	11.61	2368417	15.61	937599	18.34
SAMPLE	185558-018	016	1291684	10.48	2832412	11.61	2386769	15.62	954479	18.33
SAMPLE	185558-020	017	1357482	10.48	2889291	11.61	2506099	15.62	1038344	18.33
SAMPLE	185558-021	018	1549045	10.48	3229659	11.61	2717203	15.62	1105248	18.33
SAMPLE	185558-025	019	1528800	10.48	3224899	11.61	2675980	15.61	1099403	18.34
SAMPLE	185558-026	020	1490675	10.48	3152914	11.61	2650850	15.62	1079463	18.33
SAMPLE	185558-027	021	1421066	10.48	3016293	11.61	2520389	15.61	1014736	18.34
SAMPLE	185546-005	022	1371516	10.48	2939354	11.61	2482495	15.62	985070	18.33
SAMPLE	185546-016	023	1341557	10.48	2881284	11.61	2400200	15.61	961106	18.33
SAMPLE	185546-011	024	1295060	10.48	2813673	11.61	2355627	15.61	934398	18.34
SAMPLE	185546-004	025	1290597	10.48	2779589	11.61	2354464	15.61	942914	18.34
SAMPLE	185546-003	026	1244420	10.48	2742885	11.61	2274149	15.61	918880	18.34
SAMPLE	185546-009	027	1260508	10.48	2749048	11.61	2295439	15.61	938405	18.34
SAMPLE	185546-010	028	1266952	10.48	2763800	11.61	2335063	15.62	926637	18.33
SAMPLE	185546-008	029	1229635	10.48	2702729	11.61	2281043	15.61	923704	18.34

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 17-MAR-2006
Sequence: 496110066 (jch)
Instrument ID: MSVOA10

ICAL Filename: jcg15
Date Analyzed: 16-MAR-2006
Time Analyzed: 17:35

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	1223331	10.78	2533641	11.96	2197520	15.94	798026	18.64
LOWER LIMIT	611666	10.28	1266821	11.46	1098760	15.44	399013	18.14
UPPER LIMIT	2446662	11.28	5067282	12.46	4395040	16.44	1596052	19.14

TYPE	SAMPLE	#								
CCV	25PPB	002	1370915	10.77	2805185	11.95	2427617	15.95	855010	18.64
BS	QC331963	004	1401307	10.78	2820843	11.95	2440558	15.95	846701	18.65
BSD	QC331964	005	1353933	10.77	2756736	11.96	2374315	15.94	849650	18.64
BS	QC331965	006	1389949	10.77	2760826	11.96	2416663	15.94	835469	18.65
BSD	QC331966	007	1418998	10.78	2820811	11.96	2472443	15.94	821141	18.64
CCV	25PPB	009	1382298	10.78	2796997	11.96	2435375	15.94	832599	18.64
BLANK	QC331967	011	1422526	10.78	2857709	11.96	2495804	15.95	792192	18.64
SAMPLE	185580-001	012	1389662	10.77	2764734	11.95	2394162	15.95	800462	18.65
SAMPLE	185558-010	013	1380612	10.78	2774774	11.95	2429454	15.95	786209	18.65
SAMPLE	185558-008	014	1399453	10.77	2800063	11.95	2434390	15.95	786368	18.65
SAMPLE	185558-009	015	1385796	10.78	2780676	11.96	2425653	15.94	805949	18.64
SAMPLE	185558-011	016	1354636	10.78	2735594	11.95	2401777	15.95	754072	18.65
SAMPLE	185558-012	017	1357346	10.78	2734863	11.96	2389368	15.95	767636	18.65
SAMPLE	185558-013	018	1328306	10.78	2683700	11.95	2324324	15.95	758608	18.65
SAMPLE	185558-014	019	1337211	10.78	2696045	11.96	2352045	15.95	780678	18.65
SAMPLE	185558-015	020	1322570	10.77	2677546	11.95	2349654	15.95	752514	18.65
SAMPLE	185580-002	021	1296194	10.78	2606248	11.96	2294123	15.95	760095	18.65
SAMPLE	185580-003	022	1307509	10.78	2635921	11.96	2309526	15.95	761205	18.65
SAMPLE	185580-004	023	1325567	10.78	2647296	11.96	2341336	15.95	761563	18.65
SAMPLE	185580-005	024	1295927	10.78	2645688	11.96	2300251	15.94	749515	18.64
SAMPLE	185580-006	025	1318010	10.78	2692456	11.96	2336785	15.95	764131	18.65
SAMPLE	185580-007	026	1310483	10.78	2650702	11.96	2340901	15.94	820893	18.64
SAMPLE	185580-008	027	1322018	10.78	2656980	11.96	2349676	15.95	811500	18.65
SAMPLE	185580-009	028	1339326	10.79	2740701	11.98	2393243	15.96	800646	18.66
SAMPLE	185580-010	029	1319400	10.77	2693455	11.96	2364434	15.94	815340	18.64

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 20-MAR-2006
Sequence: 476114203 (hck)
Instrument ID: MSVOA08

ICAL Filename: hb115
Date Analyzed: 01-FEB-2006
Time Analyzed: 19:01

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	1400499	10.48	2944215	11.61	2503542	15.61	1111278	18.34
LOWER LIMIT	700250	9.98	1472108	11.11	1251771	15.11	555639	17.84
UPPER LIMIT	2800998	10.98	5888430	12.11	5007084	16.11	2222556	18.84

TYPE	SAMPLE	#								
CCV	40 PPB	003	1361320	10.48	2932870	11.61	2458626	15.61	1078926	18.34
BS	QC332104	004	1423461	10.48	2971660	11.61	2501763	15.62	1079619	18.34
BSD	QC332105	005	1430580	10.48	2994665	11.61	2506083	15.62	1066156	18.33
BLANK	QC332106	007	1344645	10.48	2832032	11.61	2399886	15.62	977548	18.33
SAMPLE	185558-021	008	1363197	10.49	2898284	11.62	2452492	15.61	968239	18.33
SAMPLE	185546-016	009	1290711	10.48	2828015	11.61	2357173	15.61	953298	18.34
CCV	40 PPB	011	1304806	10.48	2810081	11.61	2390559	15.62	1034981	18.33
BLANK	QC332107	013	1313513	10.48	2818956	11.61	2348654	15.62	942584	18.34
SAMPLE	185558-023	014	1271021	10.48	2746033	11.61	2298369	15.61	918895	18.33
SAMPLE	185558-024	015	1243395	10.48	2736026	11.61	2307506	15.62	917595	18.34
SAMPLE	185558-020	016	1243827	10.48	2729211	11.62	2341209	15.61	936861	18.33
SAMPLE	185558-019	017	1336840	10.48	2851466	11.62	2392903	15.62	960545	18.33
SAMPLE	185558-022	018	1399176	10.48	2964773	11.61	2485013	15.61	1010290	18.33
SAMPLE	185570-001	019	1367547	10.48	2939187	11.61	2470479	15.62	1005308	18.33
SAMPLE	185570-002	020	1345870	10.48	2875087	11.61	2411597	15.61	961179	18.34
SAMPLE	185570-003	021	1309992	10.48	2815188	11.61	2343080	15.62	945102	18.34
SAMPLE	185570-004	022	1275903	10.48	2742964	11.62	2286985	15.62	910467	18.33
SAMPLE	185570-005	023	1253025	10.48	2682697	11.61	2233915	15.62	896889	18.33
SAMPLE	185570-006	024	1213902	10.48	2626521	11.61	2213738	15.62	880249	18.34
SAMPLE	185570-007	025	1212749	10.48	2630737	11.61	2198442	15.62	877918	18.34
SAMPLE	185570-008	026	1171848	10.48	2543776	11.61	2171637	15.61	866835	18.34
SAMPLE	185570-009	027	1190945	10.48	2606412	11.61	2204133	15.62	859533	18.33
SAMPLE	185653-001	028	1161238	10.48	2562214	11.61	2172451	15.62	850963	18.33
SAMPLE	185653-002	029	1102287	10.48	2474312	11.61	2089360	15.61	809765	18.33

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 21-MAR-2006
Sequence: 456115675 (fcl)
Instrument ID: MSVOA06

ICAL Filename: fc921
Date Analyzed: 09-MAR-2006
Time Analyzed: 19:47

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	957753	12.35	1704082	13.66	1422227	18.32	701343	21.16
LOWER LIMIT	478877	11.85	852041	13.16	711114	17.82	350672	20.66
UPPER LIMIT	1915506	12.85	3408164	14.16	2844454	18.82	1402686	21.66

TYPE	SAMPLE	#								
CCV	40PPB	003	922074	12.33	1693327	13.64	1394510	18.30	691782	21.14
BS	QC332274	004	960360	12.33	1694023	13.64	1426466	18.31	704260	21.15
BSD	QC332275	005	958839	12.32	1708571	13.64	1431650	18.31	691280	21.15
CCV	40PPB	007	977222	12.33	1710416	13.65	1427362	18.31	719141	21.14
BLANK	QC332276	009	975370	12.32	1748251	13.63	1411146	18.30	628777	21.14
SAMPLE	185574-041	010	942100	12.32	1643902	13.63	1374521	18.30	618659	21.14
SAMPLE	185574-036	011	923289	12.32	1663756	13.64	1367856	18.31	602077	21.15
SAMPLE	185574-037	012	926175	12.33	1650039	13.64	1356512	18.31	597747	21.15
SAMPLE	185574-038	013	950144	12.33	1748076	13.64	1431975	18.31	594496	21.15
SAMPLE	185574-039	014	881588	12.32	1598723	13.63	1313707	18.30	591060	21.14
SAMPLE	185574-040	015	887742	12.32	1591807	13.63	1331453	18.30	570481	21.14
SAMPLE	185586-001	016	865342	12.32	1584426	13.64	1331315	18.30	579366	21.15
SAMPLE	185586-002	017	883943	12.31	1633216	13.63	1331811	18.30	600612	21.14
SAMPLE	185586-003	018	867956	12.31	1590247	13.63	1329160	18.30	581435	21.14
SAMPLE	185586-004	019	858207	12.31	1596405	13.63	1293333	18.30	572341	21.14
SAMPLE	185586-005	020	845776	12.32	1557909	13.64	1322148	18.30	588941	21.14
SAMPLE	185586-006	021	831063	12.32	1520588	13.64	1288258	18.30	562882	21.14
SAMPLE	185558-024	022	837499	12.31	1540394	13.63	1280670	18.30	575291	21.14
SAMPLE	185558-020	023	857127	12.31	1552618	13.63	1312926	18.30	607938	21.14
SAMPLE	185586-007	024	866340	12.32	1588631	13.64	1334099	18.31	584762	21.16
SAMPLE	185586-008	025	853188	12.31	1565638	13.63	1325569	18.30	586293	21.14
SAMPLE	185586-009	026	837902	12.31	1530932	13.63	1276361	18.30	555471	21.14

ICAL

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 476046588 Instrument: MSVOA08 HP GCMS VOA 08 Begun: 01-FEB-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	hb101	X	IB			01-FEB-2006 08:28	1.0					1	
002	hb102	X	LOW			01-FEB-2006 09:10	1.0					1	
003	hb103	X	LOW			01-FEB-2006 09:47	1.0					1	
004	hb104	TUN	BFB			01-FEB-2006 10:30	1.0					2	
005	hb105	TUN	BFB			01-FEB-2006 11:01	1.0					2	
006	hb106	TUN	BFB			01-FEB-2006 11:21	1.0					2	
007	hb107	TUN	BFB			01-FEB-2006 14:11	1.0					2	
008	hb108	X	IB			01-FEB-2006 14:43	1.0					1	
009	hb109	X	CALIB IB			01-FEB-2006 15:20	1.0					1	
010	hb110	ICAL	1.0/0.5 PPB			01-FEB-2006 15:57	1.0					3 4 5 1	
011	hb111	ICAL	2 PPB			01-FEB-2006 16:34	1.0					3 4 5 1	
012	hb112	ICAL	5 PPB			01-FEB-2006 17:10	1.0					3 4 5 1	
013	hb113	ICAL	10 PPB			01-FEB-2006 17:47	1.0					3 4 5 1	
014	hb114	ICAL	20 PPB			01-FEB-2006 18:24	1.0					3 4 5 1	
015	hb115	ICAL	50 PPB			01-FEB-2006 19:01	1.0					3 4 5 1	291
016	hb116	ICAL	75 PPB			01-FEB-2006 19:39	1.0					3 4 5 1	
017	hb117	ICAL	100 PPB			01-FEB-2006 20:16	1.0					3 4 5 1	
018	hb118	ICV				01-FEB-2006 20:53	1.0	1	5000			6 1	
019	hb119	ICV				01-FEB-2006 21:30	1.0	1	5000			7 8 1	
020	hb120	X	IB			01-FEB-2006 22:07	1.0					1	
021	hb121	X	IB			01-FEB-2006 22:44	1.0					1	

tuning mass spec

ICAL-OK

ICV-Freon 12↓, Cyclohexanone↓ (USE Chloromethane↓)

Stds used: 1=S2284 2=S2327 3=S2349 4=S2552 5=S2028 6=S2606 7=S2436 8=S2616

Analyst: LW Date: 2-2-06

02/02/06

8260/6A SOX w ICAL

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

equence: 456098395 Instrument: MSVOA06 HP GCMS VOA 06 Begun: 09-MAR-2006
nalytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
01	fc901	X	IB			09-MAR-2006 07:55	1.0						1	
02	fc902	TUN	BFB			09-MAR-2006 08:30	1.0						2	
03	fc903	CCV	25PPB			09-MAR-2006 08:47	1.0			5000			3 4 1	
04	fc904	BS	QC330702	111122	Soil	09-MAR-2006 09:36	1.0			5000			5 6 7 1	
05	fc905	BSD	QC330703	111122	Soil	09-MAR-2006 10:10	1.0			5000			5 6 7 1	
06	fc906	X	IB			09-MAR-2006 10:45	1.0						1	
07	fc907	BLANK	QC330704	111122	Soil	09-MAR-2006 11:28	1.0		1	5000			1	
08	fc908	MSS	185333-015	111122	Soil	09-MAR-2006 12:03	5.0	1	1	5000			1	1:ACE=135.352
09	fc909	MS	QC330769	111122	Soil	09-MAR-2006 12:38	5.0		1	5000			5 6 7 1	1:ACE=169.810
10	fc910	MSD	QC330770	111122	Soil	09-MAR-2006 13:13	5.0			5000			5 6 7 1	1:ACE=167.878
11	fc911	TUN	BFB			09-MAR-2006 13:59	1.0						2	
12	fc912	X	IB			09-MAR-2006 14:32	1.0						1	
13	fc913	X	IB			09-MAR-2006 15:06	1.0						1	
14	fc914	X	CALIB IB			09-MAR-2006 15:42	1.0						1	
15	fc915	ICAL	0.25/0.5PPB			09-MAR-2006 16:16	1.0						4 3 8 1	
16	fc916	ICAL	0.5/1PPB			09-MAR-2006 16:52	1.0						4 3 8 1	
17	fc917	ICAL	2PPB			09-MAR-2006 17:27	1.0						4 3 8 1	
18	fc918	ICAL	5PPB			09-MAR-2006 18:02	1.0						4 3 8 1	
19	fc919	ICAL	10PPB			09-MAR-2006 18:37	1.0						4 3 8 1	
20	fc920	ICAL	20PPB			09-MAR-2006 19:12	1.0						4 3 8 1	
21	fc921	ICAL	50PPB			09-MAR-2006 19:47	1.0						4 3 8 1	
22	fc922	ICAL	75PPB			09-MAR-2006 20:21	1.0						4 3 8 1	
23	fc923	ICAL	100PPB			09-MAR-2006 20:56	1.0						4 3 8 1	
24	fc924	ICV	25PPB			09-MAR-2006 21:30	1.0			5000			6 1	
25	fc925	ICV	25PPB			09-MAR-2006 22:05	1.0			5000			5 7 1	
26	fc926	X	IB			09-MAR-2006 22:39	1.0						1	
27	fc927	X	IB			09-MAR-2006 23:14	1.0						1	
28	fc928	X	IB			09-MAR-2006 23:48	1.0						1	

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* ICAL - 2CCEVE fails 20% RSD
* ICV - OK, USACE - sec-butbenz↑, n-butbenz↑, Hexbenz↑

Stds used: 1=S2740 2=S2327 3=S2844 4=S2783 5=S2829 6=S2807 7=S2616 8=S2410

Analyst: [illegible] Date: 3/10/06

03/13/06

1 - 7

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 456108478 Instrument: MSVOA06 HP GCMS VOA 06 Begun: 16-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	fcg01	X	IB			16-MAR-2006 07:58	1.0						1	
002	fcg02	TUN	BFB			16-MAR-2006 08:29	1.0						2	
003	fcg03	CCV	30PPB			16-MAR-2006 08:49	1.0	1		5000			3 4 5 1	
004	fcg04	LCS	QC331743	111365	Water	16-MAR-2006 09:39	1.0	1		5000			6 7 8 1	
005	fcg05	X	IB			16-MAR-2006 10:14	1.0						1	
006	fcg06	BLANK	QC331744	111365	Water	16-MAR-2006 10:49	1.0	1	1	5000			1	
007	fcg07	SAMPLE	185558-001	111365	Water	16-MAR-2006 11:24	1.0			5000	C	L2	1	
008	fcg08	SAMPLE	185558-002	111365	Water	16-MAR-2006 12:00	1.0			5000			1	
009	fcg09	SAMPLE	185558-003	111365	Water	16-MAR-2006 12:35	1.0			5000			1	
010	fcg10	SAMPLE	185558-004	111365	Water	16-MAR-2006 13:10	1.0			5000			1	
011	fcg11	SAMPLE	185558-005	111365	Water	16-MAR-2006 13:45	1.0			5000			1	
012	fcg12	SAMPLE	185558-006	111365	Water	16-MAR-2006 14:21	1.0			5000			1	
013	fcg13	SAMPLE	185558-007	111365	Water	16-MAR-2006 14:56	1.0			5000			1	
014	fcg14	SAMPLE	185525-001	111365	Water	16-MAR-2006 15:31	1.0			5000	B		1	
015	fcg15	MSS	185525-002	111365	Water	16-MAR-2006 16:06	1.0	1	1	5000			1	293
016	fcg16	SAMPLE	185521-001	111365	Water	16-MAR-2006 16:42	1.0			5000	C		1	
017	fcg17	SAMPLE	185527-004	111365	Water	16-MAR-2006 17:16	20.0			5000			1 ~~[illegible]~~	
018	fcg18	SAMPLE	185527-001	111365	Water	16-MAR-2006 17:51	33.33			5000			1	
019	fcg19	SAMPLE	185538-001	111365	Water	16-MAR-2006 18:30	2.0	1		5000	C		1 BR 4x	1:ACE=111.770
020	fcg20	SAMPLE	185593-001	111365	Water	16-MAR-2006 19:05	1.0			5000	B		1	
021	fcg21	MS	QC331745	111365	Water	16-MAR-2006 19:41	1.0	1		5000	COE		1 6 7 8	
022	fcg22	MSD	QC331746	111365	Water	16-MAR-2006 20:15	1.0	1		5000			1 6 7 8	
023	fcg23	X	IB			16-MAR-2006 20:50	1.0						1	
024	fcg24	X	IB			16-MAR-2006 21:25	1.0						1	
025	fcg25	X	IB			16-MAR-2006 22:00	1.0						1	

3/17/06

Stds used: 1=S2740 2=S2327 3=S2844 4=S2783 5=S2410 6=S2902 7=S2807 8=S2616

Analyst: Bd Date: 3/17/06

MSVOA 10 8260X

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 16-MAR-2006

Sequence: 496108554 Instrument: MSVOA10 HP GCMS VOA 10
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	jcg01	TUN	BFB			16-MAR-2006 09:14	1.0					1	
002	jcg02	CCV	30PPB			16-MAR-2006 09:31	1.0	6	5000			2 3 4 5 cc-	
003	jcg03	X	IB			16-MAR-2006 10:41	1.0					5	
004	jcg04	X	IB			16-MAR-2006 11:16	1.0					5	
005	jcg05	X	IB			16-MAR-2006 11:51	1.0					5	
006	jcg06	TUN	BFB			16-MAR-2006 12:38	1.0					1	
007	jcg07	X	IB			16-MAR-2006 12:55	1.0					5	
008	jcg08	X	CALIB IB			16-MAR-2006 13:30	1.0					5	
009	jcg09	ICAL	0.25/0.5PPB			16-MAR-2006 14:04	1.0					2 3 4 5	
010	jcg10	ICAL	0.5/1PPB			16-MAR-2006 14:39	1.0					2 3 4 5	
011	jcg11	ICAL	2PPB			16-MAR-2006 15:14	1.0					2 3 4 5	
012	jcg12	ICAL	5PPB			16-MAR-2006 15:49	1.0					2 3 4 5	
013	jcg13	ICAL	10PPB			16-MAR-2006 16:25	1.0					2 3 4 5	
014	jcg14	ICAL	20PPB			16-MAR-2006 17:00	1.0					2 3 4 5	294
015	jcg15	ICAL	50PPB			16-MAR-2006 17:35	1.0					2 3 4 5	
016	jcg16	ICAL	75PPB			16-MAR-2006 18:10	1.0					2 3 4 5	
017	jcg17	ICAL	100PPB			16-MAR-2006 18:45	1.0					2 3 4 5	
018	jcg18	ICV				16-MAR-2006 19:20	1.0		5000			6 5	
019	jcg19	ICV	NP			16-MAR-2006 19:55	1.0	1	5000			7 8 5	
020	jcg20	X	IB			16-MAR-2006 20:30	1.0					5	

Stds used: 1=S2327 2=S2783 3=S2844 4=S2410 5=S2707 6=S2807 7=S2902 8=S2616
Flags used: -=low bias cc=CCV CCC failure

Analyst: _____ Date: 3/28/07

03/17/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

16-18, 20, 21, 25-27

Sequence: 476109882 Instrument: MSVOA08 HP GCMS VOA 08 Begun: 17-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	hch01	X	IB			17-MAR-2006 07:22	1.0						1	
002	hch02	TUN	BFB			17-MAR-2006 07:59	1.0						2	
003	hch03	CCV	50 PPB			17-MAR-2006 08:31	1.0	1		5000			3 4 5 1	
004	hch04	BS	QC331889	111400	Water	17-MAR-2006 09:17	1.0	3		5000			6 7 8 1	
005	hch05	BSD	QC331890	111400	Water	17-MAR-2006 09:54	1.0	3		5000			6 7 8 1	
006	hch06	X	IB			17-MAR-2006 10:40	1.0						1	
007	hch07	BLANK	QC331891	111400	Water	17-MAR-2006 11:17	1.0		1	5000			1	
008	hch08	SAMPLE	185538-001	111400	Water	17-MAR-2006 11:54	4.0			5000	A	L2	1 ~1ml HS	
009	hch09	SAMPLE	185569-001	111400	Water	17-MAR-2006 12:31	6.25			5000	C	L2	1	
010	hch10	TUN	BFB			17-MAR-2006 13:00	1.0						2	
011	hch11	CCV	30 PPB			17-MAR-2006 13:30	1.0	3		5000			3 4 5 1	
012	hch12	X	IB			17-MAR-2006 14:18	1.0						1	
013	hch13	BLANK	QC331892	111400	Water	17-MAR-2006 14:55	1.0	2	1	5000			1	
014	hch14	SAMPLE	185558-016	111400	Water	17-MAR-2006 15:32	1.0	1		5000	C	L2	1	
015	hch15	SAMPLE	185558-017	111400	Water	17-MAR-2006 16:09	1.0			5000			1	
016	hch16	SAMPLE	185558-018	111400	Water	17-MAR-2006 16:46	1.0			5000			1	
017	hch17	SAMPLE	185558-020	111400	Water	17-MAR-2006 17:23	1.0	2		5000			1 RRE4X 1:BZ=267.455	
018	hch18	SAMPLE	185558-021	111400	Water	17-MAR-2006 18:00	1.0	1		5000			1 1XVLO	
019	hch19	SAMPLE	185558-025	111400	Water	17-MAR-2006 18:37	1.0			5000			1	
020	hch20	SAMPLE	185558-026	111400	Water	17-MAR-2006 19:14	1.0	1		5000			1	
021	hch21	SAMPLE	185558-027	111400	Water	17-MAR-2006 19:51	1.0	1		5000			1	
022	hch22	SAMPLE	185546-005	111400	Water	17-MAR-2006 20:28	2000			5000	B		1	
023	hch23	SAMPLE	185546-016	111400	Water	17-MAR-2006 21:06	1000	1		5000	C		1 RRE2000X 1:BZ=114.417	
024	hch24	SAMPLE	185546-011	111400	Water	17-MAR-2006 21:43	2000			5000	B		1	
025	hch25	SAMPLE	185546-004	111400	Water	17-MAR-2006 22:20	83.33			5000			1	
026	hch26	SAMPLE	185546-003	111400	Water	17-MAR-2006 22:57	2500			5000			1	
027	hch27	SAMPLE	185546-009	111400	Water	17-MAR-2006 23:34	62.50			5000			1	
028	hch28	SAMPLE	185546-010	111400	Water	18-MAR-2006 00:11	62.50			5000			1	
029	hch29	SAMPLE	185546-008	111400	Water	18-MAR-2006 00:48	1.0			5000			1	
030	hch30	X	IB			18-MAR-2006 01:25	1.0						1	
031	hch31-32	X	IB			18-MAR-2006 02:02	1.0						1	

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Stds used: 1=S2707 2=S2327 3=S2844 4=S2783 5=S2410 6=S2616 7=S2807 8=S2902

Analyst: LW Date: 3-20-06

03/20/06

8 - 15

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 496110066 Instrument: MSVOA10 HP GCMS VOA 10 Begun: 17-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	jch01	TUN	BFB			17-MAR-2006 10:26	1.0						1	
002	jch02	CCV	25PPB			17-MAR-2006 10:44	1.0	1		5000			2 3 4 5	
003	jch03	CCV	TVH400PPB			17-MAR-2006 12:00	1.0			5000			6 5	
004	jch04	BS	QC331963	111416	Water	17-MAR-2006 12:38	1.0	2	1	5000			7 8 9 5	
005	jch05	BSD	QC331964	111416	Water	17-MAR-2006 13:13	1.0	2	1	5000			7 8 9 5	
006	jch06	BS	QC331965	111416	Water	17-MAR-2006 14:33	1.0			5000			10 5	
007	jch07	BSD	QC331966	111416	Water	17-MAR-2006 15:08	1.0			5000			10 5	
008	jch08	TUN	BFB			17-MAR-2006 16:03	1.0						1	
009	jch09	CCV	25PPB			17-MAR-2006 16:20	1.0	3		5000			2 3 4 5	
010	jch10	CCV	TVH400PPB			17-MAR-2006 16:55	1.0			5000			6 5	
011	jch11	BLANK	QC331967	111416	Water	17-MAR-2006 17:30	1.0	1	1	5000			5	
012	jch12	SAMPLE	185580-001	111416	Water	17-MAR-2006 18:05	1.0			5000	A	2	5	
013	jch13	SAMPLE	185558-010	111416	Water	17-MAR-2006 18:40	1.0			5000	B		5	
014	jch14	SAMPLE	185558-008	111416	Water	17-MAR-2006 19:16	1.0			5000	C		5	
015	jch15	SAMPLE	185558-009	111416	Water	17-MAR-2006 19:51	1.0			5000			5	296
016	jch16	SAMPLE	185558-011	111416	Water	17-MAR-2006 20:26	1.0			5000			5	
017	jch17	SAMPLE	185558-012	111416	Water	17-MAR-2006 21:01	1.0			5000			5	
018	jch18	SAMPLE	185558-013	111416	Water	17-MAR-2006 21:36	1.0			5000			5	
019	jch19	SAMPLE	185558-014	111416	Water	17-MAR-2006 22:11	1.0			5000			5	
020	jch20	SAMPLE	185558-015	111416	Water	17-MAR-2006 22:46	1.0			5000			5	
021	jch21	SAMPLE	185580-002	111416	Water	17-MAR-2006 23:22	1.0			5000	A		5	
022	jch22	SAMPLE	185580-003	111416	Water	17-MAR-2006 23:57	1.0			5000			5	
023	jch23	SAMPLE	185580-004	111416	Water	18-MAR-2006 00:32	1.0			5000			5	
024	jch24	SAMPLE	185580-005	111416	Water	18-MAR-2006 01:07	1.0			5000			5	
025	jch25	SAMPLE	185580-006	111416	Water	18-MAR-2006 01:42	1.0			5000			5	
026	jch26	SAMPLE	185580-007	111416	Water	18-MAR-2006 02:17	1.0			5000			5	
027	jch27	SAMPLE	185580-008	111416	Water	18-MAR-2006 02:52	1.0			5000			5	
028	jch28	SAMPLE	185580-009	111416	Water	18-MAR-2006 03:27	1.0			5000			5	
029	jch29	SAMPLE	185580-010	111416	Water	18-MAR-2006 04:02	1.0			5000		N	5	
030	jch30	X	IB			18-MAR-2006 04:37	1.0						5	
031	jch31	X	IB			18-MAR-2006 05:12	1.0						5	

Stds used: 1=S2327 2=S2783 3=S2844 4=S2410 5=S2707 6=S2757 7=S2902 8=S2616 9=S2807 10=S1670

Analyst: [signature] Date: 3/20/06

3/20/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

19, 21-23
benzene

Sequence: 476114203 Instrument: MSVOA08 HP GCMS VOA 08 Begun: 20-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	hck01	X	IB			20-MAR-2006 07:23	1.0						1	
002	hck02	TUN	BFB			20-MAR-2006 07:53	1.0						2	
003	hck03	CCV	40 PPB			20-MAR-2006 08:22	1.0	1		5000			3 4 5 1	
004	hck04	BS	QC332104	111448	Water	20-MAR-2006 09:06	1.0	3		5000			6 7 8 1	
005	hck05	BSD	QC332105	111448	Water	20-MAR-2006 09:43	1.0	3		5000			6 7 8 1	
006	hck06	X	IB			20-MAR-2006 10:26	1.0						1	
007	hck07	BLANK	QC332106	111448	Water	20-MAR-2006 11:04	1.0		1	5000			1	
008	hck08	SAMPLE	185558-021	111448	Water	20-MAR-2006 11:41	1.0			5000	D	LZ	1	
009	hck09	SAMPLE	185546-016	111448	Water	20-MAR-2006 12:18	2000			5000	C	LZ	1 bubble in vial	
010	hck10	TUN	BFB			20-MAR-2006 12:48	1.0						2	
011	hck11	CCV	40 PPB			20-MAR-2006 13:17	1.0	1		5000			3 4 5 1	
012	hck12	X	IB			20-MAR-2006 14:02	1.0						1	
013	hck13	BLANK	QC332107	111448	Water	20-MAR-2006 14:39	1.0		1	5000			1	
014	hck14	SAMPLE	185558-023	111448	Water	20-MAR-2006 15:16	1.0			5000	C	LZ	1	
015	hck15	SAMPLE	185558-024	111448	Water	20-MAR-2006 15:53	1.0		1	5000	C		1 RRe 1x surr↑	297
016	hck16	SAMPLE	185558-020	111448	Water	20-MAR-2006 16:31	4.0		1	5000	D		1 RRe 4x surr↑	
017	hck17	SAMPLE	185558-019	111448	Water	20-MAR-2006 17:08	7.143			5000	C		1	
018	hck18	SAMPLE	185558-022	111448	Water	20-MAR-2006 17:45	62.50			5000	C		1	
019	hck19	SAMPLE	185570-001	111448	Water	20-MAR-2006 18:22	400.0			5000	B		1	
020	hck20	SAMPLE	185570-002	111448	Water	20-MAR-2006 18:59	40.0	1		5000			1 RRe 100X 2:PCE=168.246	
021	hck21	SAMPLE	185570-003	111448	Water	20-MAR-2006 19:36	20.0			5000			1	
022	hck22	SAMPLE	185570-004	111448	Water	20-MAR-2006 20:14	14.29	1		5000			1 RRe 25X 1:TCA111=114.139	
023	hck23	SAMPLE	185570-005	111448	Water	20-MAR-2006 20:51	1.429	2		5000			1 16.6X 1:TCA111=744.877	
024	hck24	SAMPLE	185570-006	111448	Water	20-MAR-2006 21:28	50.0	2		5000			1 125X 2:PCE=164.263	
025	hck25	SAMPLE	185570-007	111448	Water	20-MAR-2006 22:05	40.0	3		5000			1 71.4X 2:PCE=116.486	
026	hck26	SAMPLE	185570-008	111448	Water	20-MAR-2006 22:42	83.33	1		5000			1 62.5X VCO VTCFM	
027	hck27	SAMPLE	185570-009	111448	Water	20-MAR-2006 23:19	10.0	4		5000			1 62.5X 4:ACE=416.323	
028	hck28	SAMPLE	185653-001	111448	Water	20-MAR-2006 23:56	1.0			5000	A		1 1X VCO ~1 ml HS	
029	hck29	SAMPLE	185653-002	111448	Water	21-MAR-2006 00:33	25.0			5000	A		1 5X VCO ~1 ml HS	
030	hck30	X	IB			21-MAR-2006 01:10	1.0						1	
031	hck31-32	X	IB			21-MAR-2006 01:47	1.0						1	

Stds used: 1=S2707 2=S2327 3=S2844 4=S2783 5=S2410 6=S2616 7=S2807 8=S2902

Analyst: LW Date: 3-21-06

JB 3/21/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

20,24

Sequence: 456115675 Instrument: MSVOA06 HP GCMS VOA 06
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

benzene Begun: 21-MAR-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	fcl01	X	IB			21-MAR-2006 07:55	1.0						1	
002	fcl02	TUN	BFB			21-MAR-2006 08:26	1.0						2	
003	fcl03	CCV	40PPB			21-MAR-2006 08:45	1.0	1		5000			3 4 5 1	
004	fcl04	BS	QC332274	111492	Water	21-MAR-2006 09:35	1.0	1	2	5000			6 7 8 1	
005	fcl05	BSD	QC332275	111492	Water	21-MAR-2006 10:11	1.0	1		5000			6 7 8 1	
006	fcl06	TUN	BFB			21-MAR-2006 10:42	1.0						2	
007	fcl07	CCV	40PPB			21-MAR-2006 11:02	1.0	2		5000			1 3 4 5	
008	fcl08	X	IB			21-MAR-2006 12:06	1.0						1	
009	fcl09	BLANK	QC332276	111492	Water	21-MAR-2006 12:41	1.0	1	1	5000			1	
010	fcl10	SAMPLE	185574-041	111492	Water	21-MAR-2006 13:16	1.0			5000	A	<2	1	
011	fcl11	SAMPLE	185574-036	111492	Water	21-MAR-2006 13:51	1.0			5000			1	
012	fcl12	SAMPLE	185574-037	111492	Water	21-MAR-2006 14:27	1.0			5000			1	
013	fcl13	SAMPLE	185574-038	111492	Water	21-MAR-2006 15:02	1.0	1		5000			1 pu 2x	1:TCE=102.383
014	fcl14	SAMPLE	185574-039	111492	Water	21-MAR-2006 15:37	1.0			5000			1	
015	fcl15	SAMPLE	185574-040	111492	Water	21-MAR-2006 16:12	1.0			5000			1	298
016	fcl16	SAMPLE	185586-001	111492	Water	21-MAR-2006 16:47	1.0			5000	C		1	
017	fcl17	SAMPLE	185586-002	111492	Water	21-MAR-2006 17:22	1.0			5000			1	
018	fcl18	SAMPLE	185586-003	111492	Water	21-MAR-2006 17:57	1.0			5000			1	
019	fcl19	SAMPLE	185586-004	111492	Water	21-MAR-2006 18:33	1.0			5000	B		1	
020	fcl20	SAMPLE	185586-005	111492	Water	21-MAR-2006 19:08	1.0			5000			1	
021	fcl21	SAMPLE	185586-006	111492	Water	21-MAR-2006 19:43	1.0			5000			1	
022	fcl22	SAMPLE	185558-024	111492	Water	21-MAR-2006 20:19	1.0			5000	D		1	
023	fcl23	SAMPLE	185558-020	111492	Water	21-MAR-2006 20:54	4.0			5000	E		1	
024	fcl24	SAMPLE	185586-007	111492	Water	21-MAR-2006 21:30	1.0			5000	B		1	
025	fcl25	SAMPLE	185586-008	111492	Water	21-MAR-2006 22:05	1.0			5000	C		1	
026	fcl26	SAMPLE	185586-009	111492	Water	21-MAR-2006 22:40	1.0			5000			1	
027	fcl27	X	IB			21-MAR-2006 23:16	1.0						1	
028	fcl28	X	IB			21-MAR-2006 23:51	1.0						1	
029	fcl29	X	IB			22-MAR-2006 00:26	1.0						1	

Stds used: 1=S2740 2=S2327 3=S2844 4=S2783 5=S2410 6=S2902 7=S2953 8=S2616

Analyst: BC Date: 3/22/06

AV 03/22/06

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185558 8260 Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CVBCADMCMDVDMDTTCDBTDBMDBDTHPDCEXXTSTPDDBB	LCRLCCTDTCACECCCTCZCCDICZCCXCBLBYYOTBCBCZR	MEEELLSBE AKELACA EPCBPMPAOECBZLLTYMAFAM4	E EA 1N E1 1 1M1L1 A MKE1E11 2 MZ MOX E M1EF	2 3 2 2 3 2
185558-001	MSVOA06	03/16/06 11:24	1.0	+ + +

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185558 8260 Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CLM	VCE	BRE	CLE	AC1	DCE	MCE	CTN	MDS	DTB	VCE	DAC	MCT	DKC	TEC	TLC	TAC	DCT	BCA	TEL	DPC	BCA	MPE	DMK	BCE	DPE	TAC	DOC	HEO	PEC	DCB	CZL	EBL	XBZ	XYL	TOL	SYT	TBY	PCM	DCA	DBF	BCA	BZM	RC4
185558-022	MSVOA08	03/20/06 17:45	62.50	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185558-023	MSVOA08	03/20/06 15:16	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185558-024	MSVOA08	03/20/06 15:53	1.0																																													
185558-024	MSVOA06	03/21/06 20:19	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185558-025	MSVOA08	03/17/06 18:37	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185558-026	MSVOA08	03/17/06 19:14	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185558-027	MSVOA08	03/17/06 19:51	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC331743	MSVOA06	03/16/06 09:39	1.0					+												+	+					+					+											+	+	+	+				
QC331744	MSVOA06	03/16/06 10:49	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC331745	MSVOA06	03/16/06 19:41	1.0					+												+	+					+					+											+	+	+	+				
QC331746	MSVOA06	03/16/06 20:15	1.0					+												+	+					+					+											+	+	+	+				
QC331889	MSVOA08	03/17/06 09:17	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC331890	MSVOA08	03/17/06 09:54	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC331891	MSVOA08	03/17/06 11:17	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC331892	MSVOA08	03/17/06 14:55	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC331963	MSVOA10	03/17/06 12:38	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC331964	MSVOA10	03/17/06 13:13	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC331965	MSVOA10	03/17/06 14:33	1.0																																									+	+	+	+	
QC331966	MSVOA10	03/17/06 15:08	1.0																																									+	+	+	+	
QC331967	MSVOA10	03/17/06 17:30	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC332104	MSVOA08	03/20/06 09:06	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC332105	MSVOA08	03/20/06 09:43	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC332106	MSVOA08	03/20/06 11:04	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185558 8260 Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CVBCADMCMDVDMDTTCDBTDBMDBDTHPDCEXXTSTPDDBB	LCRLCCTDTCACECCCTCZCCDICZCCXCBLBYYOTBCBCZR	M MEEELSBE ACKELACA EPCBPMPAOECBZLLTYMAFAM4	E EA 1N E1 1 1MM1L1 AMK1E11 2 MZ MOX E M1EF	2 3 2 2 3 2	
QC332107	MSVOA08	03/20/06 14:39	1.0	+++++++

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 3/16/96
PREPPED BY.

111365 WATER

	SAMPLE NUM	AMT o/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	185525-1		~~B~~ ~~BCDE~~	<2			6	1x	
2	-2		BCDE	<2				1x, MSS/MS/MSD	
3	185504-1		B	7				~~400x~~	PUT OFF
4	-2			8				~~1250x~~	
5	185558-1		C	<2				1x	
6	-2								
7	-3								
8	-4								
9	-5								
0	-6								
1	-7								
2	-8								
3	-9							TB	
14	-10						6	RR 20x, CCl4 O.R	
15	185527-4		C	<2				RR 1x, CCl4 ~~CH3~~	
16	185521-1			<2				RR 3.3.3x, 12DCA O.R	
17	185527-1		C	<2				RR 2x Acetone	
18	185538-1		B					1x	
19	185573-1								
20									
21									
22									
23									
24									
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42									

PREPFORM.)

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 3-17

PREPPED BY.

111401

111400

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	185572-3		C	<2			7	2x	
2	-6							3.3x	
3	-7							10x	
4	185504-1		B	7				400x	
5	-2			8				1250x	
6	185601-1		A	<2				1x	
7	-2								
8	-3								
9	-4								
10	-5								
11	-6								
12	-7								
13	-8								
14	-9								
15	-10							+B	
16	185594-1		A		1mL			1x	
17	-2								
18	185558-16		C	<2			8	1x	
19	-17								
20	-18						8	1000x	
21	185546-16		C	<2				2500x Naph	
22	-3		B					83x	
23	-4							1x Naph	
24	-8			<2				62.5x	
25	-9			<2				62.5x	
26	-10							2000x	
27	-11							1x	
28	185596-1		A					1x	Put off
29	-2							1.42x	
30	-3			<2				1x	
31	-4							6.25x	
32	185569-1		C	<2				1x	Put off
33	185597-1		A					1x	
34	-2			<2				40x	
35	-3							1x	
36	-4							~~+B~~	
37	~~185558-10~~							~~1x~~	
38	~~-11~~							~~12.5x~~	
39	185527-4		A	<2	1mL			4x	
40	185538-1		B					2000x rcd	
41	185546-5		C	<2				1x	
42	185558-20								
	-21								
	-25								
	-26								
	-27								

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7/21/98

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 3/17/06

PREPPED BY.

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
			A	<2			10	1x TB TVH	
1	185580-1								
2	2								
3	3								
4	4								
5	5								
6	6								
7	7								
8	8								
9	9								
0	10								
1	185558-8		C						
2	9		L						
3	10		B		LV			TB	
14	11		C						
15	12				LV				
16	13								
17	14								
18	15								
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PREPFORM.3

7/21/96

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 3-20

PREPPED BY.

111447
111448

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	185504-2		C	<2			7	2000X	
2	185597-1		A	↓				1x	
3	-2			↓				1x	
4	-3			<2				40x	
5	-4							1x	
6	185596-1							1x	
7	-2			↓				1x	
8	-3			<2				1.42x	
9	-4		↓	↓				1x	
10	185603-1		B	<2				~~4x~~ 3.3x	
11	-2							3.3x	
12	-3							2.5x	
13	-4							4x	
14	-5							7.14x	
15	-6							2x	
16	-7			↓				1.42x	
17	-8						↓	1x	
18	-9		↓	<2			↓	3.3x	
19									
20									
21	185558-19		C	<2			8	7.14x	
22	-20		D	↓				4x	
23	-21		↓	<2				1x ✓ CO	
24	-22		C	<2				62.5x	
25	-23			↓				1x	
26	-24		↓	↓				1x	
27	185546-16		~~C~~	<2	Bubble			2000x	
28	185570-1		B	↓				40x	
29	-2			<2				40x	
30	-3							20x	
31	-4							14.2x	
32	-5			↓				1.42x	
33	-6			<2				50x	
34	-7							40x	
35	-8							83x	
36	-9							10x	
37	-10							10x } put off	
38	185604-1		↓	↓			↓	6.25x	
39	~~185653~~ 63/20/06			—					
40	185653-1		A	<2	1ml			1x push	
41	2		↓	<2	1ml		↓	25x ↓	
42									

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7/21/98

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 3/21/02
PREPPED BY.

111492

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	185558 -20		E	<2			6	4x SVMT ↑	Presidio
2	-24		D					1x SVMT ↑	Due 3-27
3	185574 -36		A					1x	
4	-37								
5	-38								
6	-39								
7	-40							LEVS	
8	-41								
9	185586 -1		C					1x	
10	-2								
11	-3								
12	-4		B						
13	-5								
14	-6								
15	-7								
16	-8		C						
17	-9								
18									
19									
20									
21									
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PREPFORM.XLS

7/21/98

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water
As of 04/08/06

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
1,1-Dichloroethene	ug/L	0.27	0.22	0.062	0.17	0.10	0.085	0.089
Benzene	ug/L	0.11	0.041	0.060	0.061	0.12	0.044	0.027
Trichloroethene	ug/L	0.21	0.076	0.18	0.17	0.11	0.072	0.087
Toluene	ug/L	0.083	0.083	0.12	0.092	0.062	0.063	0.053
Chlorobenzene	ug/L	0.10	0.090	0.11	0.16	0.16	0.079	0.050
Freon 12	ug/L	0.18	0.099	0.22	0.062	0.15	0.24	0.18
Chloromethane	ug/L	0.12	0.16	0.12	0.18	0.13	0.16	0.089
Vinyl Chloride	ug/L	0.19	0.23	0.10	0.066	0.10	0.17	0.16
Bromomethane	ug/L	0.29	0.30	0.31	0.13	0.31	0.23	0.20
Chloroethane	ug/L	0.33	0.33	0.15	0.16	0.13	0.16	0.12
Trichlorofluoromethane	ug/L	0.16	0.057	0.17	0.10	0.080	0.089	0.10
Acetone	ug/L	0.39	0.87	0.21	0.85	0.16	0.26	0.49
Freon 113	ug/L	0.062	0.12	0.13	0.25	0.071	0.20	0.091
Methylene Chloride	ug/L	0.15	0.21	0.11	0.12	0.16	0.099	0.22
MTBE	ug/L	0.069	0.074	0.065	0.045	0.040	0.051	0.052
Carbon Disulfide	ug/L	0.039	0.031	0.086	0.076	0.11	0.058	0.037
trans-1,2-Dichloroethene	ug/L	0.37	0.13	0.18	0.051	0.064	0.11	0.093
Vinyl Acetate	ug/L	0.076	0.36	0.084	0.99	0.40	0.080	0.10
1,1-Dichloroethane	ug/L	0.088	0.061	0.048	0.090	0.11	0.063	0.063
2-Butanone	ug/L	0.16	0.17	0.20	0.50	0.099	0.17	0.26
cis-1,2-Dichloroethene	ug/L	0.26	0.18	0.083	0.12	0.042	0.096	0.11
2,2-Dichloropropane	ug/L	0.093	0.17	0.077	0.12	0.066	0.084	0.083
Chloroform	ug/L	0.082	0.055	0.086	0.060	0.11	0.030	0.044
Bromochloromethane	ug/L	0.091	0.090	0.10	0.18	0.11	0.20	0.15
1,1,1-Trichloroethane	ug/L	0.084	0.066	0.14	0.11	0.061	0.045	0.041
1,1-Dichloropropene	ug/L	0.12	0.11	0.081	0.16	0.16	0.052	0.055
Carbon Tetrachloride	ug/L	0.089	0.11	0.098	0.17	0.15	0.095	0.056
1,2-Dichloroethane	ug/L	0.090	0.088	0.099	0.096	0.12	0.058	0.056
1,2-Dichloropropane	ug/L	0.093	0.060	0.079	0.071	0.14	0.072	0.12
Bromodichloromethane	ug/L	0.086	0.039	0.067	0.074	0.10	0.081	0.069
Dibromomethane	ug/L	0.16	0.061	0.092	0.16	0.11	0.065	0.13
4-Methyl-2-Pentanone	ug/L	0.044	0.076	0.057	0.20	0.13	0.092	0.25
cis-1,3-Dichloropropene	ug/L	0.068	0.065	0.056	0.20	0.16	0.042	0.044
trans-1,3-Dichloropropene	ug/L	0.074	0.074	0.044	0.073	0.14	0.071	0.060
1,1,2-Trichloroethane	ug/L	0.12	0.12	0.14	0.19	0.15	0.094	0.058
2-Hexanone	ug/L	0.043	0.31	0.047	0.34	0.11	0.13	0.14
1,3-Dichloropropane	ug/L	0.064	0.067	0.061	0.063	0.10	0.045	0.068
Tetrachloroethene	ug/L	0.13	0.14	0.12	0.22	0.14	0.090	0.093
Dibromochloromethane	ug/L	0.099	0.054	0.10	0.085	0.056	0.077	0.063
1,2-Dibromoethane	ug/L	0.16	0.061	0.10	0.073	0.11	0.053	0.070
2-Chloroethylvinylether	ug/L	0.093	0.18	0.24	0.17	0.14	0.20	0.23
1,1,1,2-Tetrachloroethane	ug/L	0.11	0.087	0.10	0.11	0.14	0.046	0.088
Ethylbenzene	ug/L	0.059	0.076	0.075	0.17	0.041	0.060	0.11
m,p-Xylenes	ug/L	0.24	0.22	0.14	0.27	0.17	0.13	0.20
o-Xylene	ug/L	0.10	0.058	0.092	0.11	0.16	0.11	0.13

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water
As of 04/08/06

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
Styrene	ug/L	0.12	0.092	0.098	0.085	0.16	0.075	0.061
Bromoform	ug/L	0.12	0.088	0.11	0.18	0.094	0.079	0.15
Isopropylbenzene	ug/L	0.12	0.059	0.090	0.18	0.059	0.053	0.10
1,1,2,2-Tetrachloroethane	ug/L	0.13	0.096	0.086	0.047	0.13	0.070	0.055
1,2,3-Trichloropropane	ug/L	0.31	0.28	0.074	0.11	0.17	0.20	0.16
Propylbenzene	ug/L	0.075	0.10	0.063	0.21	0.023	0.055	0.11
Bromobenzene	ug/L	0.12	0.12	0.10	0.19	0.12	0.073	0.085
1,3,5-Trimethylbenzene	ug/L	0.060	0.095	0.047	0.14	0.057	0.077	0.13
2-Chlorotoluene	ug/L	0.12	0.11	0.068	0.15	0.025	0.047	0.12
4-Chlorotoluene	ug/L	0.079	0.069	0.043	0.14	0.037	0.032	0.069
tert-Butylbenzene	ug/L	0.11	0.15	0.075	0.19	0.038	0.042	0.079
1,2,4-Trimethylbenzene	ug/L	0.091	0.088	0.066	0.12	0.069	0.077	0.10
sec-Butylbenzene	ug/L	0.11	0.12	0.062	0.17	0.088	0.041	0.076
para-Isopropyl Toluene	ug/L	0.058	0.12	0.12	0.14	0.056	0.055	0.045
1,3-Dichlorobenzene	ug/L	0.080	0.16	0.097	0.18	0.060	0.071	0.10
1,4-Dichlorobenzene	ug/L	0.068	0.14	0.095	0.18	0.038	0.092	0.17
n-Butylbenzene	ug/L	0.12	0.15	0.11	0.18	0.21	0.048	0.12
1,2-Dichlorobenzene	ug/L	0.072	0.14	0.080	0.14	0.16	0.068	0.061
1,2-Dibromo-3-Chloropropane	ug/L	0.39	0.25	0.21	0.22	0.13	0.26	0.098
1,2,4-Trichlorobenzene	ug/L	0.12	0.17	0.14	0.16	0.10	0.16	0.17
Hexachlorobutadiene	ug/L	0.19	0.19	0.29	0.21	0.11	0.24	0.25
Naphthalene	ug/L	0.12	0.13	0.060	0.10	0.091	0.20	0.16
1,2,3-Trichlorobenzene	ug/L	0.063	0.17	0.10	0.20	0.095	0.18	0.29
tert-Butyl Alcohol (TBA)	ug/L	1.3	1.6	0.83	2.5	1.3	0.94	1.3
Isopropyl Ether (DIPE)	ug/L	0.068	0.070	0.063	0.027	0.030	0.053	0.027
Ethyl tert-Butyl Ether (ETBE)	ug/L	0.089	0.045	0.024	0.20	0.033	0.075	0.034
Methyl tert-Amyl Ether (TAME)	ug/L	0.094	0.13	0.055	0.054	0.048	0.032	0.057
Isopropanol	ug/L	4.6	2.7	1.6	6.6	1.5	1.4	1.1
Ethanol	ug/L	55	22	23	50	11	7.9	36
Hexane	ug/L				0.33		0.15	
Cyclohexanone	ug/L	3.8	2.4	0.21	1.6	1.6	2.5	
Tetrahydrofuran	ug/L	0.64	1.2	1.1	0.79	1.4	1.7	3.5
Tetramethyl THF	ug/L	0.067	0.061	0.062	0.20	0.10	0.055	0.078
Gasoline C6-C10	ug/L		15		4.8	15	8.5	
Gasoline C7-C12	ug/L		18		2.4	13	7.7	
Dibromofluoromethane	ug/L	3.1	2.9	1.8	2.4	1.5		3.2
1,2-Dichloroethane-d4	ug/L	3.0	3.9		2.4	1.2		3.0
Toluene-d8	ug/L	1.7	3.8		1.1	1.0		1.1
Bromofluorobenzene	ug/L	2.5	2.6		1.2	1.2		1.5
Trifluorotoluene	ug/L	0.12	0.43	0.065	0.21	0.13		0.14

PESTICIDES

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	DAEGW03	Batch#:	111389
Lab ID:	185558-011	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Prepared:	03/16/06
Diln Fac:	1.000	Analyzed:	03/17/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.09
4,4'-DDE	ND	0.09
Endrin	ND	0.09
Endosulfan II	ND	0.09
Endosulfan sulfate	ND	0.09
4,4'-DDD	ND	0.09
4,4'-DDT	ND	0.09
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.09
Toxaphene	ND	0.9

Surrogate	%REC	Limits
TCMX	108	65-135
Decachlorobiphenyl	75	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	DAEGW05	Batch#:	111389
Lab ID:	185558-013	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Prepared:	03/16/06
Diln Fac:	1.000	Analyzed:	03/17/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	102	65-135
Decachlorobiphenyl	119	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	DAEGW08	Batch#:	111389
Lab ID:	185558-014	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Prepared:	03/16/06
Diln Fac:	1.000	Analyzed:	03/17/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	96	65-135
Decachlorobiphenyl	106	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	DAEGW103	Batch#:	111389
Lab ID:	185558-015	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Prepared:	03/16/06
Diln Fac:	1.000	Analyzed:	03/17/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.09
4,4'-DDE	ND	0.09
Endrin	ND	0.09
Endosulfan II	ND	0.09
Endosulfan sulfate	ND	0.09
4,4'-DDD	ND	0.09
4,4'-DDT	ND	0.09
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.09
Toxaphene	ND	0.9

Surrogate	%REC	Limits
TCMX	80	65-135
Decachlorobiphenyl	117	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331840	Batch#:	111389
Matrix:	Water	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/17/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	66	65-135
Decachlorobiphenyl	112	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Matrix:	Water	Batch#:	111389
Units:	ug/L	Prepared:	03/16/06
Diln Fac:	1.000	Analyzed:	03/17/06

Type: BS Lab ID: QC331841

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	0.2000	0.1867	93	65-135
Heptachlor	0.2000	0.1874	94	65-135
Aldrin	0.2000	0.1777	89	65-135
Dieldrin	0.4000	0.3946	99	65-135
Endrin	0.4000	0.3883	97	65-135
4,4'-DDT	0.4000	0.3473	87	65-135

Surrogate	%REC	Limits
TCMX	82	65-135
Decachlorobiphenyl	105	65-135

Type: BSD Lab ID: QC331842

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	0.2000	0.1884	94	65-135	1	35
Heptachlor	0.2000	0.1894	95	65-135	1	35
Aldrin	0.2000	0.1817	91	65-135	2	35
Dieldrin	0.4000	0.3920	98	65-135	1	35
Endrin	0.4000	0.3881	97	65-135	0	35
4,4'-DDT	0.4000	0.3669	92	65-135	5	35

Surrogate	%REC	Limits
TCMX	73	65-135
Decachlorobiphenyl	108	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185558 PEST Water: EPA 8081A

Inst : GC21
Calnum : 246090289001
Units : pg

Name : gc21pest062
Date : 03-MAR-2006 16:49
X Axis : R

Reviewer: MCH
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	062_007	246090289007	pest_1	03-MAR-2006 16:49	S2827
L2	062_008	246090289008	pest_2	03-MAR-2006 17:06	S2039
L3	062_009	246090289009	pest_3	03-MAR-2006 17:23	S2824
L4	062_010	246090289010	pest_4	03-MAR-2006 17:41	S2372
L5	062_011	246090289011	pest_5	03-MAR-2006 17:58	S2663
L6	062_012	246090289012	pest_6	03-MAR-2006 18:15	S2828
L7	062_013	246090289013	pest_7	03-MAR-2006 18:33	S2823

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
alpha-BHC	A	15186	14539	13770	13435	13877	13587	12182	AVRG		7.25E-5		13797	7	0.995	20	
gamma-BHC	A	13643	13740	12750	12639	13116	12334	11010	AVRG		7.84E-5		12747	7	0.995	20	
beta-BHC	A	6074.0	5916.8	5452.9	5253.8	5350.0	4961.6	4654.6	AVRG		1.86E-4		5380.5	9	0.995	20	
delta-BHC	A	13337	13643	12559	12818	13276	12231	10744	AVRG		7.90E-5		12658	8	0.995	20	
Heptachlor	A	10866	11505	10481	10418	10788	10390	9314.6	AVRG		9.49E-5		10537	6	0.995	20	
Aldrin	A	12810	12326	11449	11178	11611	10900	9480.2	AVRG		8.78E-5		11393	9	0.995	20	
Heptachlor epoxide	A	12074	11243	10575	9936.1	10310	9809.4	8521.4	AVRG		9.66E-5		10353	11	0.995	20	
gamma-Chlordane	A	12339	11468	10697	10265	10505	10142	8952.6	AVRG		9.41E-5		10624	10	0.995	20	
alpha-Chlordane	A	11835	11323	10033	10187	10465	9843.6	8590.7	AVRG		9.69E-5		10325	10	0.995	20	
4,4'-DDE	A	10909	10533	9864.5	9844.3	10154	9164.7	7141.4	AVRG		1.04E-4		9658.6	13	0.995	20	
Endosulfan I	A	11137	10504	9917.9	9314.5	9441.6	8769.4	7936.7	AVRG		1.04E-4		9574.3	11	0.995	20	
Dieldrin	A	11073	10842	10062	9943.8	10271	8910.0	6764.0	AVRG		1.03E-4		9695.0	15	0.995	20	
Endrin	A	8177.0	8056.5	7341.1	7247.0	7555.2	6952.4	5679.6	AVRG		1.37E-4		7287.0	11	0.995	20	
4,4'-DDD	A	7826.3	7569.7	7076.6	7277.2	7582.4	7258.7	5892.4	AVRG		1.39E-4		7211.9	9	0.995	20	
Endosulfan II	A	10051	9217.4	9179.9	8407.1	8568.4	7805.6	6275.6	AVRG		1.18E-4		8500.7	14	0.995	20	
4,4'-DDT	A	6746.5	7434.6	6874.2	7358.5	7640.4	7280.7	6117.6	AVRG		1.42E-4		7064.6	7	0.995	20	
Methoxychlor	A	2967.5	3121.2	2829.9	2955.0	2972.0	2393.2	1649.9	AVRG		3.71E-4		2698.4	19	0.995	20	
Endosulfan sulfate	A	7977.8	7549.4	6979.8	6805.1	7016.6	6480.9	5376.7	AVRG		1.45E-4		6883.8	12	0.995	20	
Endrin ketone	A	9050.3	8688.4	8066.8	8050.9	8307.8	7525.3	5795.7	AVRG		1.26E-4		7926.5	13	0.995	20	
TCMX	A	9987.5	9445.7	9184.7	8499.5	8783.5	8716.9	7804.2	AVRG		1.12E-4		8917.4	8	0.995	20	
Decachlorobiphenyl	A	6698.3	6152.3	5656.9	5471.6	5472.9	5372.8	4736.6	AVRG		1.77E-4		5651.6	11	0.995	20	
alpha-BHC	B	12960	12479	11566	14001	11683	12352	9907.9	AVRG		8.24E-5		12135	11	0.995	20	
gamma-BHC	B	11425	11317	10400	12744	10523	10745	8653.7	AVRG		9.23E-5		10830	11	0.995	20	
beta-BHC	B	5298.5	5149.6	4866.2	5714.7	4656.5	4774.8	3997.1	AVRG		2.03E-4		4922.5	11	0.995	20	
delta-BHC	B	10979	10445	10059	12433	10100	9924.9	7848.8	AVRG		9.75E-5		10256	13	0.995	20	
Heptachlor	B	8923.0	9901.0	9368.3	10671	8989.3	9374.4	7943.6	AVRG		1.07E-4		9310.0	9	0.995	20	

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Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aldrin	B	10566	10190	9440.4	11353	9413.9	9545.6	7800.9	AVRG		1.02E-4		9758.5	11	0.995	20	
Heptachlor epoxide	B	9735.0	9166.8	8693.1	9743.8	8194.6	8363.1	6836.3	AVRG		1.15E-4		8676.1	12	0.995	20	
gamma-Chlordane	B	10110	9445.8	8913.8	10212	8563.1	8689.4	7255.0	AVRG		1.11E-4		9027.0	11	0.995	20	
alpha-Chlordane	B	9705.0	9115.8	8403.5	10025	8247.7	8117.4	6950.3	AVRG		1.16E-4		8652.2	12	0.995	20	
4,4'-DDE	B	9225.5	8789.5	8210.6	9760.2	8133.7	7623.4	5655.7	AVRG		1.22E-4		8199.8	16	0.995	20	
Endosulfan I	B	9121.0	8979.2	8079.0	9304.9	7972.6	7794.9	6304.0	AVRG		1.22E-4		8222.2	13	0.995	20	
Dieldrin	B	9476.0	8938.0	8308.9	9777.3	8202.1	7472.2	5471.0	AVRG		1.21E-4		8235.1	18	0.995	20	
Endrin	B	6817.5	6531.9	6317.0	6753.9	5672.9	5407.8	4269.0	AVRG		1.68E-4		5967.1	15	0.995	20	
4,4'-DDD	B	7643.8	7095.7	6969.9	7942.8	6780.7	6366.8	4844.0	AVRG		1.47E-4		6806.2	15	0.995	20	
Endosulfan II	B	8202.0	7617.0	7029.2	7927.5	6804.8	6286.1	4757.7	AVRG		1.44E-4		6946.3	17	0.995	20	
4,4'-DDT	B	6763.3	7110.2	6353.1	7660.4	6434.1	6168.2	4824.1	AVRG		1.54E-4		6473.3	14	0.995	20	
Methoxychlor	B	2590.3	2574.9	2427.1	2529.4	2186.1	1792.2		AVRG		4.26E-4		2350.0	13	0.995	20	
Endosulfan sulfate	B	7470.0	6948.4	6335.6	6982.9	5972.4	5538.0	4346.8	AVRG		1.61E-4		6227.7	17	0.995	20	
Endrin ketone	B	9058.0	8221.9	7840.7	8581.4	7436.5	6589.5	4878.0	AVRG		1.33E-4		7515.1	19	0.995	20	
TCMX	B	8856.0	8219.7	7837.4	9077.1	7510.3	8110.1	6413.1	AVRG		1.25E-4		8003.4	11	0.995	20	
Decachlorobiphenyl	B	7380.0	6391.6	6027.9	6418.6	5533.5	5391.2	4346.5	AVRG		1.69E-4		5927.0	16	0.995	20	
Average EPA 8081A	A												(n=22)	11		20	
Average EPA 8081A	B												(n=22)	14		20	

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AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185558 PEST Water
EPA 8081A

Inst : GC21 Name : gc21pest062
Calnum : 246090289001 Cal Date: 03-MAR-2006

ICV 246090289015 (062_015 03-MAR-2006) stds: S2502

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
alpha-BHC	A	25.00	24.41	pg	-2	15	
gamma-BHC	A	25.00	24.17	pg	-3	15	
beta-BHC	A	25.00	23.72	pg	-5	15	
delta-BHC	A	25.00	24.90	pg	0	15	
Heptachlor	A	25.00	24.55	pg	-2	15	
Aldrin	A	25.00	23.91	pg	-4	15	
Heptachlor epoxide	A	25.00	23.60	pg	-6	15	
gamma-Chlordane	A	25.00	23.06	pg	-8	15	
alpha-Chlordane	A	25.00	23.17	pg	-7	15	
4,4'-DDE	A	25.00	25.01	pg	0	15	
Endosulfan I	A	25.00	23.79	pg	-5	15	
Dieldrin	A	25.00	25.17	pg	1	15	
Endrin	A	25.00	25.34	pg	1	15	
4,4'-DDD	A	25.00	24.28	pg	-3	15	
Endosulfan II	A	25.00	26.12	pg	4	15	
4,4'-DDT	A	25.00	25.76	pg	3	15	
Methoxychlor	A	25.00	32.12	pg	**28**	15	v+ ***
Endosulfan sulfate	A	25.00	25.52	pg	2	15	
Endrin ketone	A	25.00	26.09	pg	4	15	
alpha-BHC	B	25.00	26.88	pg	8	15	
gamma-BHC	B	25.00	26.54	pg	6	15	
beta-BHC	B	25.00	26.52	pg	6	15	
delta-BHC	B	25.00	25.95	pg	4	15	
Heptachlor	B	25.00	28.59	pg	14	15	
Aldrin	B	25.00	26.24	pg	5	15	
Heptachlor epoxide	B	25.00	26.31	pg	5	15	
gamma-Chlordane	B	25.00	25.47	pg	2	15	
alpha-Chlordane	B	25.00	25.66	pg	3	15	
4,4'-DDE	B	25.00	27.82	pg	11	15	
Endosulfan I	B	25.00	25.99	pg	4	15	
Dieldrin	B	25.00	27.52	pg	10	15	
Endrin	B	25.00	27.43	pg	10	15	
4,4'-DDD	B	25.00	27.80	pg	11	15	
Endosulfan II	B	25.00	28.03	pg	12	15	
4,4'-DDT	B	25.00	27.30	pg	9	15	
Methoxychlor	B	25.00	32.58	pg	**30**	15	v+ ***
Endosulfan sulfate	B	25.00	27.76	pg	11	15	
Endrin ketone	B	25.00	28.99	pg	**16**	15	v+ ***
Average EPA 8081A	A	n=20			5	15	
Average EPA 8081A	B	n=20			10	15	

+=high bias v=ICV

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 185558 PEST Water
EPA 8081A

Inst : GC21 Run Name: pem IDF : 1.0
Seqnum : 246110207007 File : 076_007 Time : 17-MAR-2006 14:56

Standards: S2664

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	692882	7	15	
4,4'-DDE	A	7916			
4,4'-DDD	A	44809			
Endrin	A	385830	12	15	
Endrin aldehyde	A	16977			
Endrin ketone	A	35222			
4,4'-DDT	B	563958	13	15	
4,4'-DDE	B	3705			
4,4'-DDD	B	79140			
Endrin	B	305493	**19**	15	
Endrin aldehyde	B	18835			
Endrin ketone	B	54652			

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 185558 PEST Water
EPA 8081A

Inst : GC21 Run Name: pem IDF : 1.0
Seqnum : 246110207020 File : 076_020 Time : 17-MAR-2006 19:26

Standards: S2664

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	630319	9	15	
4,4'-DDE	A	7331			
4,4'-DDD	A	53418			
Endrin	A	362164	12	15	
Endrin aldehyde	A	11468			
Endrin ketone	A	36931			
4,4'-DDT	B	552282	14	15	
4,4'-DDE	B	3199			
4,4'-DDD	B	85248			
Endrin	B	316749	**18**	15	
Endrin aldehyde	B	13654			
Endrin ketone	B	58176			

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 185558 PEST Water
EPA 8081A

Inst : GC21 Run Name: pem IDF : 1.0
Seqnum : 246110207035 File : 076_035 Time : 17-MAR-2006 23:47

Standards: S2664

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	702191	8	15	
4,4'-DDE	A	7338			
4,4'-DDD	A	55740			
Endrin	A	411728	10	15	
Endrin aldehyde	A	9793			
Endrin ketone	A	38122			
4,4'-DDT	B	536305	**16**	15	
4,4'-DDE	B	3046			
4,4'-DDD	B	99752			
Endrin	B	314887	**20**	15	
Endrin aldehyde	B	16964			
Endrin ketone	B	63915			

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185558 PEST Water
EPA 8081A

Inst : GC21 Run Name: pest_3 IDF : 1.0
Seqnum : 246110207006 File : 076_006 Time : 17-MAR-2006 14:14
Cal : 246090289001 Caldate : 03-MAR-2006
Standards: S2824

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	13797	13625	10.00	9.875	pg	-1	15	
gamma-BHC	A	12747	12762	10.00	10.01	pg	0	15	
beta-BHC	A	5380.5	5444.1	10.00	10.12	pg	1	15	
delta-BHC	A	12658	12684	10.00	10.02	pg	0	15	
Heptachlor	A	10537	11012	10.00	10.45	pg	5	15	
Aldrin	A	11393	11499	10.00	10.09	pg	1	15	
Heptachlor epoxide	A	10353	10680	10.00	10.32	pg	3	15	
gamma-Chlordane	A	10624	10882	10.00	10.24	pg	2	15	
alpha-Chlordane	A	10325	10516	10.00	10.18	pg	2	15	
4,4'-DDE	A	9658.6	9838.1	20.00	20.37	pg	2	15	
Endosulfan I	A	9574.3	9638.3	10.00	10.07	pg	1	15	
Dieldrin	A	9695.0	10117	20.00	20.87	pg	4	15	
Endrin	A	7287.0	7291.1	20.00	20.01	pg	0	15	
4,4'-DDD	A	7211.9	7578.0	20.00	21.02	pg	5	15	
Endosulfan II	A	8500.7	9045.4	20.00	21.28	pg	6	15	
4,4'-DDT	A	7064.6	6381.8	20.00	18.07	pg	-10	15	
Methoxychlor	A	2698.4	2790.9	100.0	103.4	pg	3	15	
Endosulfan sulfate	A	6883.8	7336.4	20.00	21.32	pg	7	15	
Endrin ketone	A	7926.5	8506.3	20.00	21.46	pg	7	15	
TCMX	A	8917.4	9133.2	20.00	20.48	pg	2	15	
Decachlorobiphenyl	A	5651.6	5795.4	20.00	20.51	pg	3	15	
alpha-BHC	B	12135	11650	10.00	9.600	pg	-4	15	
gamma-BHC	B	10830	10325	10.00	9.534	pg	-5	15	
beta-BHC	B	4922.5	4718.3	10.00	9.585	pg	-4	15	
delta-BHC	B	10256	9915.2	10.00	9.668	pg	-3	15	
Heptachlor	B	9310.0	9179.2	10.00	9.859	pg	-1	15	
Aldrin	B	9758.5	9471.4	10.00	9.706	pg	-3	15	
Heptachlor epoxide	B	8676.1	8584.0	10.00	9.894	pg	-1	15	
gamma-Chlordane	B	9027.0	8909.6	10.00	9.870	pg	-1	15	
alpha-Chlordane	B	8652.2	8596.8	10.00	9.936	pg	-1	15	
4,4'-DDE	B	8199.8	8242.3	20.00	20.10	pg	1	15	
Endosulfan I	B	8222.2	8054.4	10.00	9.796	pg	-2	15	
Dieldrin	B	8235.1	8388.7	20.00	20.37	pg	2	15	
Endrin	B	5967.1	5775.8	20.00	19.36	pg	-3	15	
4,4'-DDD	B	6806.2	7658.4	20.00	22.50	pg	13	15	
Endosulfan II	B	6946.3	7316.4	20.00	21.07	pg	5	15	
4,4'-DDT	B	6473.3	5315.6	20.00	16.42	pg	**-18**	15	c- ***
Methoxychlor	B	2350.0	2199.5	100.0	93.60	pg	-6	15	
Endosulfan sulfate	B	6227.7	6403.9	20.00	20.57	pg	3	15	
Endrin ketone	B	7515.1	8268.9	20.00	22.01	pg	10	15	
TCMX	B	8003.4	7737.0	20.00	19.33	pg	-3	15	
Decachlorobiphenyl	B	5927.0	5646.7	20.00	19.05	pg	-5	15	
Average EPA 8081A	A	(n=22)					3	15	
Average EPA 8081A	B	(n=22)					5	15	

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185558 PEST Water
EPA 8081A

Inst : GC21 Run Name: pest_4 IDF : 1.0
Seqnum : 246110207021 File : 076_021 Time : 17-MAR-2006 19:44
Cal : 246090289001 Caldate : 03-MAR-2006
Standards: S2372

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	13797	13571	20.00	19.67	pg	-2	15	
gamma-BHC	A	12747	12966	20.00	20.34	pg	2	15	
beta-BHC	A	5380.5	5327.4	20.00	19.80	pg	-1	15	
delta-BHC	A	12658	12789	20.00	20.21	pg	1	15	
Heptachlor	A	10537	11250	20.00	21.35	pg	7	15	
Aldrin	A	11393	11387	20.00	19.99	pg	0	15	
Heptachlor epoxide	A	10353	10176	20.00	19.66	pg	-2	15	
gamma-Chlordane	A	10624	10514	20.00	19.79	pg	-1	15	
alpha-Chlordane	A	10325	10003	20.00	19.38	pg	-3	15	
4,4'-DDE	A	9658.6	9957.9	40.00	41.24	pg	3	15	
Endosulfan I	A	9574.3	9864.7	20.00	20.61	pg	3	15	
Dieldrin	A	9695.0	10243	40.00	42.26	pg	6	15	
Endrin	A	7287.0	7642.3	40.00	41.95	pg	5	15	
4,4'-DDD	A	7211.9	7557.7	40.00	41.92	pg	5	15	
Endosulfan II	A	8500.7	8749.7	40.00	41.17	pg	3	15	
4,4'-DDT	A	7064.6	7006.2	40.00	39.67	pg	-1	15	
Methoxychlor	A	2698.4	3036.2	200.0	225.0	pg	13	15	
Endosulfan sulfate	A	6883.8	6996.6	40.00	40.66	pg	2	15	
Endrin ketone	A	7926.5	8563.3	40.00	43.21	pg	8	15	
TCMX	A	8917.4	8532.9	40.00	38.27	pg	-4	15	
Decachlorobiphenyl	A	5651.6	5673.6	40.00	40.16	pg	0	15	
alpha-BHC	B	12135	12119	20.00	19.97	pg	0	15	
gamma-BHC	B	10830	11069	20.00	20.44	pg	2	15	
beta-BHC	B	4922.5	4908.3	20.00	19.94	pg	0	15	
delta-BHC	B	10256	10720	20.00	20.91	pg	5	15	
Heptachlor	B	9310.0	10127	20.00	21.76	pg	9	15	
Aldrin	B	9758.5	9961.0	20.00	20.41	pg	2	15	
Heptachlor epoxide	B	8676.1	8760.0	20.00	20.19	pg	1	15	
gamma-Chlordane	B	9027.0	9249.4	20.00	20.49	pg	2	15	
alpha-Chlordane	B	8652.2	8907.3	20.00	20.59	pg	3	15	
4,4'-DDE	B	8199.8	8821.6	40.00	43.03	pg	8	15	
Endosulfan I	B	8222.2	8686.6	20.00	21.13	pg	6	15	
Dieldrin	B	8235.1	8942.0	40.00	43.43	pg	9	15	
Endrin	B	5967.1	6332.1	40.00	42.45	pg	6	15	
4,4'-DDD	B	6806.2	8054.3	40.00	47.33	pg	**18**	15	c+ ***
Endosulfan II	B	6946.3	7711.1	40.00	44.40	pg	11	15	
4,4'-DDT	B	6473.3	6209.9	40.00	38.37	pg	-4	15	
Methoxychlor	B	2350.0	2302.1	200.0	195.9	pg	-2	15	
Endosulfan sulfate	B	6227.7	6606.2	40.00	42.43	pg	6	15	
Endrin ketone	B	7515.1	8563.9	40.00	45.58	pg	14	15	
TCMX	B	8003.4	7481.8	40.00	37.39	pg	-7	15	
Decachlorobiphenyl	B	5927.0	5869.4	40.00	39.61	pg	-1	15	
Average EPA 8081A	A	(n=22)					3	15	
Average EPA 8081A	B	(n=22)					6	15	

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185558 PEST Water
EPA 8081A

Inst : GC21 Run Name: pest_5 IDF : 1.0
Seqnum : 246110207036 File : 076_036 Time : 18-MAR-2006 00:04
Cal : 246090289001 Caldate : 03-MAR-2006
Standards: S2663

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	13797	13682	25.00	24.79	pg	-1	15	
gamma-BHC	A	12747	13024	25.00	25.54	pg	2	15	
beta-BHC	A	5380.5	5292.8	25.00	24.59	pg	-2	15	
delta-BHC	A	12658	13052	25.00	25.78	pg	3	15	
Heptachlor	A	10537	11126	25.00	26.40	pg	6	15	
Aldrin	A	11393	11463	25.00	25.15	pg	1	15	
Heptachlor epoxide	A	10353	10248	25.00	24.75	pg	-1	15	
gamma-Chlordane	A	10624	10465	25.00	24.62	pg	-2	15	
alpha-Chlordane	A	10325	10078	25.00	24.40	pg	-2	15	
4,4'-DDE	A	9658.6	10063	50.00	52.09	pg	4	15	
Endosulfan I	A	9574.3	9675.9	25.00	25.27	pg	1	15	
Dieldrin	A	9695.0	10251	50.00	52.87	pg	6	15	
Endrin	A	7287.0	7710.1	50.00	52.90	pg	6	15	
4,4'-DDD	A	7211.9	7356.1	50.00	51.00	pg	2	15	
Endosulfan II	A	8500.7	9307.4	50.00	54.74	pg	9	15	
4,4'-DDT	A	7064.6	6949.8	50.00	49.19	pg	-2	15	
Methoxychlor	A	2698.4	2890.1	250.0	267.8	pg	7	15	
Endosulfan sulfate	A	6883.8	7125.0	50.00	51.75	pg	4	15	
Endrin ketone	A	7926.5	8589.5	50.00	54.18	pg	8	15	
TCMX	A	8917.4	8630.6	50.00	48.39	pg	-3	15	
Decachlorobiphenyl	A	5651.6	5451.7	50.00	48.23	pg	-4	15	
alpha-BHC	B	12135	11824	25.00	24.36	pg	-3	15	
gamma-BHC	B	10830	10779	25.00	24.88	pg	0	15	
beta-BHC	B	4922.5	4748.2	25.00	24.11	pg	-4	15	
delta-BHC	B	10256	10476	25.00	25.54	pg	2	15	
Heptachlor	B	9310.0	9443.2	25.00	25.36	pg	1	15	
Aldrin	B	9758.5	9635.2	25.00	24.68	pg	-1	15	
Heptachlor epoxide	B	8676.1	8478.7	25.00	24.43	pg	-2	15	
gamma-Chlordane	B	9027.0	8899.2	25.00	24.65	pg	-1	15	
alpha-Chlordane	B	8652.2	8602.5	25.00	24.86	pg	-1	15	
4,4'-DDE	B	8199.8	8539.3	50.00	52.07	pg	4	15	
Endosulfan I	B	8222.2	8222.2	25.00	25.00	pg	0	15	
Dieldrin	B	8235.1	8544.1	50.00	51.88	pg	4	15	
Endrin	B	5967.1	5826.6	50.00	48.82	pg	-2	15	
4,4'-DDD	B	6806.2	7780.9	50.00	57.16	pg	14	15	
Endosulfan II	B	6946.3	7367.0	50.00	53.03	pg	6	15	
4,4'-DDT	B	6473.3	5576.8	50.00	43.08	pg	-14	15	
Methoxychlor	B	2350.0	2201.4	250.0	234.2	pg	-6	15	
Endosulfan sulfate	B	6227.7	6322.5	50.00	50.76	pg	2	15	
Endrin ketone	B	7515.1	8206.8	50.00	54.60	pg	9	15	
TCMX	B	8003.4	7494.2	50.00	46.82	pg	-6	15	
Decachlorobiphenyl	B	5927.0	5569.6	50.00	46.98	pg	-6	15	
Average EPA 8081A	A	(n=22)					4	15	
Average EPA 8081A	B	(n=22)					4	15	

SEQUENCE SUMMARY FOR 185558 PEST Water
Curtis & Tompkins Laboratories

Sequence: 246090289 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 03-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	062_001	X	primer			03-MAR-2006 15:05	1.0							
002	062_002	X	primer			03-MAR-2006 15:22	1.0							
003	062_003	X	primer			03-MAR-2006 15:40	1.0							
004	062_004	X	hex			03-MAR-2006 15:57	1.0							
005	062_005	PEM	pem			03-MAR-2006 16:14	1.0			1			1	
006	062_006	X	hex			03-MAR-2006 16:31	1.0							
007	062_007	ICAL	pest_1			03-MAR-2006 16:49	1.0						2	
008	062_008	ICAL	pest_2			03-MAR-2006 17:06	1.0						3	
009	062_009	ICAL	pest_3			03-MAR-2006 17:23	1.0						4	
010	062_010	ICAL	pest_4			03-MAR-2006 17:41	1.0						5	
011	062_011	ICAL	pest_5			03-MAR-2006 17:58	1.0						6	
012	062_012	ICAL	pest_6			03-MAR-2006 18:15	1.0						7	
013	062_013	ICAL	pest_7			03-MAR-2006 18:33	1.0						8	
014	062_014	X	hex			03-MAR-2006 18:50	1.0							
015	062_015	ICV	icv			03-MAR-2006 19:07	1.0	3		1			9	325
016	062_016	X	icv			03-MAR-2006 19:24	1.0						9	
017	062_017	X	hex			03-MAR-2006 19:42	1.0							

Stds used: 1=S2664 2=S2827 3=S2039 4=S2824 5=S2372 6=S2663 7=S2828 8=S2823 9=S2502

SEQUENCE SUMMARY FOR 185558 PEST Water
Curtis & Tompkins Laboratories

Sequence: 246110207 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 17-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	076_001	X	primer			17-MAR-2006 12:47	1.0						
002	076_002	X	primer			17-MAR-2006 13:04	1.0						
003	076_003	X	hex			17-MAR-2006 13:21	1.0						
004	076_004	X	pem			17-MAR-2006 13:39	1.0	1.0			1	1	
005	076_005	X	pest_3			17-MAR-2006 13:56	1.0					2	
006	076_006	CCV	pest_3			17-MAR-2006 14:14	1.0	1.0	1		1	2	
007	076_007	PEM	pem			17-MAR-2006 14:56	1.0	1.0			1	1	
008	076_008	X	hex			17-MAR-2006 15:57	1.0						
009	076_009	BLANK	QC331840	111389	Water	17-MAR-2006 16:15	1.0	0.01	1		1		
010	076_010	BS	QC331841	111389	Water	17-MAR-2006 16:32	1.0	0.01	2		1		
011	076_011	BSD	QC331842	111389	Water	17-MAR-2006 16:50	1.0	0.01	2		1		
012	076_012	SAMPLE	185527-001	111389	Water	17-MAR-2006 17:07	1.0	0.009615	3		1		2:XYL246=299.880
013	076_013	SAMPLE	185527-002	111389	Water	17-MAR-2006 17:25	1.0	0.009615	1		1		
014	076_014	SAMPLE	185527-003	111389	Water	17-MAR-2006 17:42	1.0	0.009901	1		1		
015	076_015	SAMPLE	185527-004	111389	Water	17-MAR-2006 17:59	1.0	0.009524	1		1		326
016	076_016	SAMPLE	185567-001	111389	Water	17-MAR-2006 18:17	1.0	0.009615	1		1		
017	076_017	SAMPLE	185567-002	111389	Water	17-MAR-2006 18:34	1.0	0.009524	1	1	1		
018	076_018	SAMPLE	185567-003	111389	Water	17-MAR-2006 18:52	1.0	0.009901	1		1		
019	076_019	X	hex			17-MAR-2006 19:09	1.0						
020	076_020	PEM	pem			17-MAR-2006 19:26	1.0	1.0			1	1	
021	076_021	CCV	pest_4			17-MAR-2006 19:44	1.0	1.0	1		1	3	
022	076_022	X	pest_4			17-MAR-2006 20:01	1.0					3	
023	076_023	X	pem			17-MAR-2006 20:19	1.0					1	
024	076_024	X	hex			17-MAR-2006 20:36	1.0						
025	076_025	SAMPLE	185511-012	111389	Water	17-MAR-2006 20:53	1.0	0.009524		1	1		1:BHCDEL=144.723
026	076_026	SAMPLE	185511-013	111389	Water	17-MAR-2006 21:11	1.0	0.009615			1		
027	076_027	SAMPLE	185558-011	111389	Water	17-MAR-2006 21:28	1.0	0.009434			1		
028	076_028	SAMPLE	185558-013	111389	Water	17-MAR-2006 21:45	1.0	0.009524			1		
029	076_029	SAMPLE	185558-014	111389	Water	17-MAR-2006 22:03	1.0	0.009524			1		
030	076_030	SAMPLE	185558-015	111389	Water	17-MAR-2006 22:20	1.0	0.009434			1		
031	076_031	SAMPLE	185566-001	111389	Water	17-MAR-2006 22:38	5.0	0.01			1		

Stds used: 1=S2664 2=S2824 3=S2372 4=S2663

SEQUENCE SUMMARY FOR 185558 PEST Water
Curtis & Tompkins Laboratories

Sequence: 246110207 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 17-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
032	076_032	SAMPLE	185567-004	111389	Water	17-MAR-2006 22:55	1.0	0.01053	1		
033	076_033	SAMPLE	185567-005	111389	Water	17-MAR-2006 23:12	1.0	0.01	1		
034	076_034	X	hex			17-MAR-2006 23:30	1.0				
035	076_035	PEM	pem			17-MAR-2006 23:47	1.0	1.0	1	1	
036	076_036	CCV	pest_5			18-MAR-2006 00:04	1.0	1.0	1	4	
037	076_037	X	pest_5			18-MAR-2006 00:22	1.0			4	
038	076_038	X	pem			18-MAR-2006 00:39	1.0	1.0	1	1	
039	076_039	X	hex			18-MAR-2006 00:57	1.0				

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Stds used: 1=S2664 2=S2824 3=S2372 4=S2663

REPORTING SUMMARY FOR 185558 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185558-011	alpha-BHC	GC21	A	03/17/06 21:28
185558-011	beta-BHC	GC21	A	03/17/06 21:28
185558-011	gamma-BHC	GC21	A	03/17/06 21:28
185558-011	delta-BHC	GC21	A	03/17/06 21:28
185558-011	Heptachlor	GC21	A	03/17/06 21:28
185558-011	Aldrin	GC21	A	03/17/06 21:28
185558-011	Heptachlor epoxide	GC21	A	03/17/06 21:28
185558-011	Endosulfan I	GC21	A	03/17/06 21:28
185558-011	Dieldrin	GC21	A	03/17/06 21:28
185558-011	4,4'-DDE	GC21	A	03/17/06 21:28
185558-011	Endrin	GC21	A	03/17/06 21:28
185558-011	Endosulfan II	GC21	A	03/17/06 21:28
185558-011	Endosulfan sulfate	GC21	A	03/17/06 21:28
185558-011	4,4'-DDD	GC21	A	03/17/06 21:28
185558-011	4,4'-DDT	GC21	A	03/17/06 21:28
185558-011	alpha-Chlordane	GC21	A	03/17/06 21:28
185558-011	gamma-Chlordane	GC21	A	03/17/06 21:28
185558-011	Methoxychlor	GC21	A	03/17/06 21:28
185558-011	Endrin ketone	GC21	A	03/17/06 21:28
185558-011	Toxaphene	GC21	A	03/17/06 21:28
185558-011	TCMX	GC21	A	03/17/06 21:28
185558-011	Decachlorobiphenyl	GC21	A	03/17/06 21:28
185558-013	alpha-BHC	GC21	A	03/17/06 21:45
185558-013	beta-BHC	GC21	A	03/17/06 21:45
185558-013	gamma-BHC	GC21	A	03/17/06 21:45
185558-013	delta-BHC	GC21	A	03/17/06 21:45
185558-013	Heptachlor	GC21	A	03/17/06 21:45
185558-013	Aldrin	GC21	A	03/17/06 21:45
185558-013	Heptachlor epoxide	GC21	A	03/17/06 21:45
185558-013	Endosulfan I	GC21	A	03/17/06 21:45
185558-013	Dieldrin	GC21	A	03/17/06 21:45
185558-013	4,4'-DDE	GC21	A	03/17/06 21:45
185558-013	Endrin	GC21	A	03/17/06 21:45
185558-013	Endosulfan II	GC21	A	03/17/06 21:45
185558-013	Endosulfan sulfate	GC21	A	03/17/06 21:45
185558-013	4,4'-DDD	GC21	A	03/17/06 21:45
185558-013	4,4'-DDT	GC21	A	03/17/06 21:45
185558-013	alpha-Chlordane	GC21	A	03/17/06 21:45
185558-013	gamma-Chlordane	GC21	A	03/17/06 21:45
185558-013	Methoxychlor	GC21	A	03/17/06 21:45
185558-013	Endrin ketone	GC21	A	03/17/06 21:45
185558-013	Toxaphene	GC21	A	03/17/06 21:45
185558-013	TCMX	GC21	A	03/17/06 21:45
185558-013	Decachlorobiphenyl	GC21	A	03/17/06 21:45
185558-014	alpha-BHC	GC21	A	03/17/06 22:03
185558-014	beta-BHC	GC21	A	03/17/06 22:03
185558-014	gamma-BHC	GC21	A	03/17/06 22:03
185558-014	delta-BHC	GC21	A	03/17/06 22:03
185558-014	Heptachlor	GC21	A	03/17/06 22:03
185558-014	Aldrin	GC21	A	03/17/06 22:03
185558-014	Heptachlor epoxide	GC21	A	03/17/06 22:03
185558-014	Endosulfan I	GC21	A	03/17/06 22:03

REPORTING SUMMARY FOR 185558 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185558-014	Dieldrin	GC21	A	03/17/06 22:03
185558-014	4,4'-DDE	GC21	A	03/17/06 22:03
185558-014	Endrin	GC21	A	03/17/06 22:03
185558-014	Endosulfan II	GC21	A	03/17/06 22:03
185558-014	Endosulfan sulfate	GC21	A	03/17/06 22:03
185558-014	4,4'-DDD	GC21	A	03/17/06 22:03
185558-014	4,4'-DDT	GC21	A	03/17/06 22:03
185558-014	alpha-Chlordane	GC21	A	03/17/06 22:03
185558-014	gamma-Chlordane	GC21	A	03/17/06 22:03
185558-014	Methoxychlor	GC21	A	03/17/06 22:03
185558-014	Endrin ketone	GC21	A	03/17/06 22:03
185558-014	Toxaphene	GC21	A	03/17/06 22:03
185558-014	TCMX	GC21	A	03/17/06 22:03
185558-014	Decachlorobiphenyl	GC21	A	03/17/06 22:03
185558-015	alpha-BHC	GC21	A	03/17/06 22:20
185558-015	beta-BHC	GC21	A	03/17/06 22:20
185558-015	gamma-BHC	GC21	A	03/17/06 22:20
185558-015	delta-BHC	GC21	A	03/17/06 22:20
185558-015	Heptachlor	GC21	A	03/17/06 22:20
185558-015	Aldrin	GC21	A	03/17/06 22:20
185558-015	Heptachlor epoxide	GC21	A	03/17/06 22:20
185558-015	Endosulfan I	GC21	A	03/17/06 22:20
185558-015	Dieldrin	GC21	A	03/17/06 22:20
185558-015	4,4'-DDE	GC21	A	03/17/06 22:20
185558-015	Endrin	GC21	A	03/17/06 22:20
185558-015	Endosulfan II	GC21	A	03/17/06 22:20
185558-015	Endosulfan sulfate	GC21	A	03/17/06 22:20
185558-015	4,4'-DDD	GC21	A	03/17/06 22:20
185558-015	4,4'-DDT	GC21	A	03/17/06 22:20
185558-015	alpha-Chlordane	GC21	A	03/17/06 22:20
185558-015	gamma-Chlordane	GC21	A	03/17/06 22:20
185558-015	Methoxychlor	GC21	A	03/17/06 22:20
185558-015	Endrin ketone	GC21	A	03/17/06 22:20
185558-015	Toxaphene	GC21	A	03/17/06 22:20
185558-015	TCMX	GC21	A	03/17/06 22:20
185558-015	Decachlorobiphenyl	GC21	A	03/17/06 22:20
QC331840	alpha-BHC	GC21	A	03/17/06 16:15
QC331840	beta-BHC	GC21	A	03/17/06 16:15
QC331840	gamma-BHC	GC21	A	03/17/06 16:15
QC331840	delta-BHC	GC21	A	03/17/06 16:15
QC331840	Heptachlor	GC21	A	03/17/06 16:15
QC331840	Aldrin	GC21	A	03/17/06 16:15
QC331840	Heptachlor epoxide	GC21	A	03/17/06 16:15
QC331840	Endosulfan I	GC21	A	03/17/06 16:15
QC331840	Dieldrin	GC21	A	03/17/06 16:15
QC331840	4,4'-DDE	GC21	A	03/17/06 16:15
QC331840	Endrin	GC21	A	03/17/06 16:15
QC331840	Endosulfan II	GC21	A	03/17/06 16:15
QC331840	Endosulfan sulfate	GC21	A	03/17/06 16:15
QC331840	4,4'-DDD	GC21	A	03/17/06 16:15
QC331840	4,4'-DDT	GC21	A	03/17/06 16:15
QC331840	alpha-Chlordane	GC21	A	03/17/06 16:15

REPORTING SUMMARY FOR 185558 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC331840	gamma-Chlordane	GC21	A	03/17/06 16:15
QC331840	Methoxychlor	GC21	A	03/17/06 16:15
QC331840	Endrin ketone	GC21	A	03/17/06 16:15
QC331840	Toxaphene	GC21	A	03/17/06 16:15
QC331840	TCMX	GC21	A	03/17/06 16:15
QC331840	Decachlorobiphenyl	GC21	A	03/17/06 16:15
QC331841	gamma-BHC	GC21	A	03/17/06 16:32
QC331841	Heptachlor	GC21	A	03/17/06 16:32
QC331841	Aldrin	GC21	A	03/17/06 16:32
QC331841	Dieldrin	GC21	A	03/17/06 16:32
QC331841	Endrin	GC21	A	03/17/06 16:32
QC331841	4,4'-DDT	GC21	A	03/17/06 16:32
QC331841	TCMX	GC21	A	03/17/06 16:32
QC331841	Decachlorobiphenyl	GC21	A	03/17/06 16:32
QC331842	gamma-BHC	GC21	A	03/17/06 16:50
QC331842	Heptachlor	GC21	A	03/17/06 16:50
QC331842	Aldrin	GC21	A	03/17/06 16:50
QC331842	Dieldrin	GC21	A	03/17/06 16:50
QC331842	Endrin	GC21	A	03/17/06 16:50
QC331842	4,4'-DDT	GC21	A	03/17/06 16:50
QC331842	TCMX	GC21	A	03/17/06 16:50
QC331842	Decachlorobiphenyl	GC21	A	03/17/06 16:50

Curtis & Tompkins Laboratories **Sample Preparation Summary** **17-MAR-2006 12:00**

Batch Number : 111389
Date Extracted: 16-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : 8081
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2719A
Spike #2 ID : S2744G
Spike #3 ID :
SOP Version : 8081w_rv14

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185511-012		Treadwell & Rollo	Water	1050	mL	10	0.009524	1	5	.02	0		8081		
185511-013		Treadwell & Rollo	Water	1040	mL	10	0.009615	1	5	.02	0		8081		
185527-001		LFR Levine Fricke	Water	1040	mL	10	0.009615	1	6	.02	0		8081		
185527-002		LFR Levine Fricke	Water	1040	mL	10	0.009615	1	6	.02	0		8081		
185527-003		LFR Levine Fricke	Water	1010	mL	10	0.009901	1	5	.02	0		8081		
185527-004		LFR Levine Fricke	Water	1050	mL	10	0.009524	1	7	.02	0		8081		
185558-011		Treadwell & Rollo	Water	1060	mL	10	0.009434	1	7	.02	0		8081		
185558-013		Treadwell & Rollo	Water	1050	mL	10	0.009524	1	7	.02	0		8081		
185558-014		Treadwell & Rollo	Water	1050	mL	10	0.009524	1	7	.02	0		8081		
185558-015		Treadwell & Rollo	Water	1060	mL	10	0.009434	1	6	.02	0		8081		
185566-001		Tetra Tech EC, Inc.	Water	1000	mL	10	0.010000	1	7	.02	0		8081		
185567-001		LFR Levine Fricke	Water	1040	mL	10	0.009615	1	7	.02	0		8081		
185567-002		LFR Levine Fricke	Water	1050	mL	10	0.009524	1	7	.02	0		8081		
185567-003		LFR Levine Fricke	Water	1010	mL	10	0.009901	1	5	.02	0		8081		
185567-004		LFR Levine Fricke	Water	950	mL	10	0.010526	1	7	.02	0		8081		
185567-005		LFR Levine Fricke	Water	1000	mL	10	0.010000	1	7	.02	0		8081		
QC331840	BLANK		Water	1000	mL	10	0.010000	1		.02	0		8081		
QC331841	BS		Water	1000	mL	10	0.010000	1		.02	.025		8081		
QC331842	BSD		Water	1000	mL	10	0.010000	1		.02	.025		8081		

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Prep Chemist: Jessie Mee Reviewed By: [illegible] Date: 3/19/06

Relinquished By: Dan [illegible] Received By: [illegible] Date: 03/20/06

Curtis & Tompkins, Ltd

8081 WATER PREP LOG

BK2210

LIMS Batch No: 111389
LIMS Analysis: 8081
Extracted by: JDM
Date Extracted: 16 Mar 06

Extraction Method:
- ☐ EPA 3510c sep. funnel
- ☒ EPA 3520c cont. L/L
- ☐ _____

Cleanup Method (if needed):
- ☐ EPA 3640a GPC
- ☐ EPA 3620b Florisil
- ☐ _____

	Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
	185511-012S	1050	5	10.0		
	13 R	1040	5			
	185527-001 F		6			
	02 E		5 6			
5	03 F	1010	7 5			
	04 G	1050	7			
	185558-011 J	1060				
	13 L	1050				
	14 I	1050				
10	15 K	1060	6			
	185566-001 P	1000	7			
	185567-001 G	1040				
	02 F	1050				
	03 E	1010	5			
15	04 F	950	7			
	05 F	1000	7			
	MB QC331840		NA			
	BS 41					
	BSD 42					
20						
						DLM 3/17/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.02 mL of surrogate solution was added to all samples	S2719A	JDM 3/16/06
0.025 mL of matrix spike solution was added to all spikes	S2744G	
☒ Samples continuously extracted with about 450 mL of CH_2Cl_2	EM46014	
Extraction Start Time:	1305	
Extraction End Time:	0705	DLM 3/17/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	
Extracts filtered through baked, CH_2Cl_2 rinsed ~~powdered~~ granular Na_2SO_4	EM45118532	
Exchanged 2x with Hexane	CP890	
Concentrated: ☒ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Florisil	NA	

Jessie Chee 3/16/06
Extraction Chemist Date

Contined from Page —
Continued on Page —

3/19/06
Reviewed by Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8081A Water
As of 04/08/06

Analyte	Units	GC21 A	GC21 B	GC16 A	GC16 B	GC23 A	GC23 B
gamma-BHC	ug/L	0.0065	0.0039	0.0032	0.0025	0.0029	0.0039
Heptachlor	ug/L	0.0083	0.0056	0.0057	0.0061	0.0029	0.0055
Aldrin	ug/L	0.0094	0.0070	0.0066	0.0066	0.0062	0.0077
Dieldrin	ug/L	0.011	0.0051	0.0074	0.0070	0.0041	0.0097
Endrin	ug/L	0.012	0.011	0.0095	0.0083	0.0054	0.011
4,4'-DDT	ug/L	0.012	0.0071	0.011	0.0099	0.0088	0.0087
alpha-BHC	ug/L	0.0063	0.0040	0.0029	0.0027	0.0032	0.0049
beta-BHC	ug/L	0.0061	0.011	0.0033	0.0052	0.0029	0.0055
delta-BHC	ug/L	0.0065	0.0023	0.0040	0.0026	0.0018	0.0041
Heptachlor epoxide	ug/L	0.0066	0.0097	0.0033	0.0032	0.0028	0.0044
gamma-Chlordane	ug/L	0.0064	0.011	0.0041	0.0037	0.0020	0.0042
alpha-Chlordane	ug/L	0.010	0.0052	0.0045	0.0036	0.0023	0.0052
Endosulfan I	ug/L	0.0062	0.0033	0.0043	0.0032	0.0026	0.0048
4,4'-DDE	ug/L	0.011	0.0057	0.010	0.0082	0.0045	0.0097
Endosulfan II	ug/L	0.013	0.0077	0.0088	0.0073	0.0066	0.0097
Endosulfan sulfate	ug/L	0.0096	0.0054	0.015	0.0087	0.0054	0.0093
4,4'-DDD	ug/L	0.011	0.0096	0.0088	0.0090	0.0033	0.010
Endrin aldehyde	ug/L	0.010	0.0092	0.0084	0.0086	0.0052	0.0088
Chlordane (Technical)	ug/L	0.26	0.21	0.19	0.19	0.17	0.21
Methoxychlor	ug/L	0.050	0.018	0.057	0.080	0.043	0.051
Endrin ketone	ug/L	0.0083	0.023	0.027	0.0095	0.0051	0.015
Toxaphene	ug/L	0.47	0.32	0.39	0.34	0.54	0.29

PCBs

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Matrix:	Water	Sampled:	03/14/06
Units:	ug/L	Received:	03/15/06
Diln Fac:	1.000	Prepared:	03/16/06
Batch#:	111385		

Field ID:	DAEGW03	Analyzed:	03/21/06
Type:	SAMPLE	Cleanup Method:	EPA 3665A
Lab ID:	185558-011		

Analyte	Result	RL
Aroclor-1016	ND	0.48
Aroclor-1221	ND	0.96
Aroclor-1232	ND	0.48
Aroclor-1242	ND	0.48
Aroclor-1248	ND	0.48
Aroclor-1254	ND	0.48
Aroclor-1260	ND	0.48

Surrogate	%REC	Limits
TCMX	112	65-135
Decachlorobiphenyl	111	65-135

Field ID:	DAEGW05	Analyzed:	03/21/06
Type:	SAMPLE	Cleanup Method:	EPA 3665A
Lab ID:	185558-013		

Analyte	Result	RL
Aroclor-1016	ND	0.48
Aroclor-1221	ND	0.95
Aroclor-1232	ND	0.48
Aroclor-1242	ND	0.48
Aroclor-1248	ND	0.48
Aroclor-1254	ND	0.48
Aroclor-1260	ND	0.48

Surrogate	%REC	Limits
TCMX	130	65-135
Decachlorobiphenyl	116	65-135

Field ID:	DAEGW08	Analyzed:	03/21/06
Type:	SAMPLE	Cleanup Method:	EPA 3665A
Lab ID:	185558-014		

Analyte	Result	RL
Aroclor-1016	ND	0.48
Aroclor-1221	ND	0.95
Aroclor-1232	ND	0.48
Aroclor-1242	ND	0.48
Aroclor-1248	ND	0.48
Aroclor-1254	ND	0.48
Aroclor-1260	ND	0.48

Surrogate	%REC	Limits
TCMX	126	65-135
Decachlorobiphenyl	113	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Matrix:	Water	Sampled:	03/14/06
Units:	ug/L	Received:	03/15/06
Diln Fac:	1.000	Prepared:	03/16/06
Batch#:	111385		

Field ID:	DAEGW103	Analyzed:	03/21/06
Type:	SAMPLE	Cleanup Method:	EPA 3665A
Lab ID:	185558-015		

Analyte	Result	RL
Aroclor-1016	ND	0.48
Aroclor-1221	ND	0.95
Aroclor-1232	ND	0.48
Aroclor-1242	ND	0.48
Aroclor-1248	ND	0.48
Aroclor-1254	ND	0.48
Aroclor-1260	ND	0.48

Surrogate	%REC	Limits
TCMX	106	65-135
Decachlorobiphenyl	87	65-135

Type:	BLANK	Analyzed:	03/19/06
Lab ID:	QC331819	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	91	65-135
Decachlorobiphenyl	94	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331820	Batch#:	111385
Matrix:	Water	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/19/06

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	10.00	8.157	82	60-140

Surrogate	%REC	Limits
TCMX	83	65-135
Decachlorobiphenyl	99	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Field ID:	1349MW02	Batch#:	111385
MSS Lab ID:	185457-016	Sampled:	03/10/06
Matrix:	Water	Received:	03/10/06
Units:	ug/L	Prepared:	03/16/06
Diln Fac:	1.000	Analyzed:	03/19/06

Type: MS Cleanup Method: EPA 3665A
Lab ID: QC331821

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1221	<0.2931	9.524	8.521	89	55-148

Surrogate	%REC	Limits
TCMX	110	65-135
Decachlorobiphenyl	103	65-135

Type: MSD Cleanup Method: EPA 3665A
Lab ID: QC331822

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1221	9.524	8.966	94	55-148	5	30

Surrogate	%REC	Limits
TCMX	117	65-135
Decachlorobiphenyl	110	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185558 PCBS Water: EPA 8082

Inst : GC06
Calnum : 206104291001
Units : pg

Name : ar1660
Date : 14-MAR-2006 02:43
X Axis : R

Reviewer: MCH
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	072_023	206104291023	pcb10_2	14-MAR-2006 02:43	S2097
L2	072_024	206104291024	pcb25_5	14-MAR-2006 03:11	S2098
L3	072_025	206104291025	pcb100_20	14-MAR-2006 03:38	S2099
L4	072_026	206104291026	pcb250_50	14-MAR 2006 04:06	S2770
L5	072_027	206104291027	pcb500_100	14-MAR-2006 04:33	S2771
L6	072_028	206104291028	pcb750_150	14-MAR-2006 05:01	S2102
L7	072_029	206104291029	pcb1000_200	14-MAR-2006 05:28	S2103

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aroclor-1016 Peak # 1	A	262.90	263.32	207.59	213.22	159.60	190.68	201.74	AVRG		0.00467		214.15	18	.99	20	
Aroclor-1016 Peak # 2	A	534.30	533.44	428.73	424.42	310.84	377.38	372.88	AVRG		0.00235		426.00	20	.99	20	
Aroclor-1016 Peak # 3	A	289.50	304.52	254.55	268.99	199.29	260.55	266.02	AVRG		0.00380		263.35	13	.99	20	
Aroclor-1016 Peak # 4	A	143.80	162.44	141.82	155.55	120.78	163.55	168.15	AVRG		0.00663		150.87	11	.99	20	
Aroclor-1016 Peak # 5	A	267.10	279.64	233.49	246.30	181.95	226.36	229.76	AVRG		0.00421		237.80	13	.99	20	
Aroclor-1260 Peak # 1	A	585.20	577.60	470.23	479.09	347.28	429.21	440.04	AVRG		0.00210		475.52	18	.99	20	
Aroclor-1260 Peak # 2	A	772.00	794.24	632.12	660.89	480.88	610.25	630.48	AVRG		0.00153		654.41	16	.99	20	
Aroclor-1260 Peak # 3	A	505.30	636.68	521.23	587.44	441.53	598.97	634.89	AVRG		0.00178		560.86	13	.99	20	
Aroclor-1260 Peak # 4	A	771.30	756.56	621.98	691.01	520.81	676.27	733.70	AVRG		0.00147		681.66	13	.99	20	
Aroclor-1260 Peak # 5	A	404.60	373.00	305.67	352.34	264.20	359.09	401.08	AVRG		0.00285		351.43	14	.99	20	
TCMX	A	7495.0	7536.8	6785.5	7954.7	6358.4	8370.8	8499.6	AVRG		1.32E-4		7571.5	10	.99	20	
Decachlorobiphenyl	A	9475.0	9992.0	8011.5	8905.5	6413.3	7766.5	8083.4	AVRG		1.19E-4		8378.2	14	.99	20	
Aroclor-1016 Peak # 1	B	171.90	164.00	135.67	144.30	109.22	137.52	139.21	AVRG		0.00699		143.12	14	.99	20	
Aroclor-1016 Peak # 2	B	218.10	210.76	175.96	184.10	138.35	177.10	178.23	AVRG		0.00546		183.23	14	.99	20	
Aroclor-1016 Peak # 3	B	493.40	484.40	391.11	441.40	339.29	474.04	499.59	AVRG		0.00224		446.18	14	.99	20	
Aroclor-1016 Peak # 4	B	251.70	244.08	204.19	218.89	163.92	215.68	223.32	AVRG		0.00460		217.40	13	.99	20	
Aroclor-1016 Peak # 5	B	155.30	161.36	134.01	139.58	101.86	128.66	130.05	AVRG		0.00736		135.83	14	.99	20	
Aroclor-1260 Peak # 1	B	412.60	449.84	356.44	373.21	273.01	344.08	355.21	AVRG		0.00273		366.34	15	.99	20	
Aroclor-1260 Peak # 2	B	279.40	205.84	231.57	247.06	180.64	213.19	236.33	AVRG		0.00439		227.72	14	.99	20	
Aroclor-1260 Peak # 3	B	264.10	267.40	220.72	240.41	178.12	230.78	248.81	AVRG		0.00424		235.76	13	.99	20	
Aroclor-1260 Peak # 4	B	493.40	528.32	443.66	499.70	380.76	501.69	554.38	AVRG		0.00206		485.99	12	.99	20	
Aroclor-1260 Peak # 5	B	241.00	248.40	211.88	242.96	186.05	258.49	283.67	AVRG		0.00419		238.92	13	.99	20	
TCMX	B	5011.5	5017.0	4667.7	5721.1	4666.5	6254.1	6443.1	AVRG		1.85E-4		5397.3	14	.99	20	
Decachlorobiphenyl	B	6621.0	6988.4	5649.0	6453.9	4623.1	5632.8	6084.9	AVRG		1.66E-4		6007.6	13	.99	20	

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AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185558 PCBS Water: EPA 8082

Inst : GC06
Calnum : 206105777001
Units : pg

Name : ar2154
Date : 14-MAR-2006 12:47
X Axis : R

Reviewer: MCH
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	073_005	206105777005	ar2154	14-MAR-2006 12:47	S2665

Analyte	Ch	L1	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aroclor-1221 Peak # 1	A	102.87	AVRG		0.00972		102.87	0	.99	20	
Aroclor-1221 Peak # 2	A	74.896	AVRG		0.01335		74.896	0	.99	20	
Aroclor-1221 Peak # 3	A	297.17	AVRG		0.00337		297.17	0	.99	20	
Aroclor-1221 Peak # 4	A	38.624	AVRG		0.02589		38.624	0	.99	20	
Aroclor-1221 Peak # 5	A	37.568	AVRG		0.02662		37.568	0	.99	20	
Aroclor-1254 Peak # 1	A	334.31	AVRG		0.00299		334.31	0	.99	20	
Aroclor-1254 Peak # 2	A	433.24	AVRG		0.00231		433.24	0	.99	20	
Aroclor-1254 Peak # 3	A	308.04	AVRG		0.00325		308.04	0	.99	20	
Aroclor-1254 Peak # 4	A	521.41	AVRG		0.00192		521.41	0	.99	20	
Aroclor-1254 Peak # 5	A	357.48	AVRG		0.00280		357.48	0	.99	20	
Aroclor-1221 Peak # 1	B	73.132	AVRG		0.01367		73.132	0	.99	20	
Aroclor-1221 Peak # 2	B	66.468	AVRG		0.01504		66.468	0	.99	20	
Aroclor-1221 Peak # 3	B	57.244	AVRG		0.01747		57.244	0	.99	20	
Aroclor-1221 Peak # 4	B	204.03	AVRG		0.00490		204.03	0	.99	20	
Aroclor-1221 Peak # 5	B	41.372	AVRG		0.02417		41.372	0	.99	20	
Aroclor-1254 Peak # 1	B	282.06	AVRG		0.00355		282.06	0	.99	20	
Aroclor-1254 Peak # 2	B	321.39	AVRG		0.00311		321.39	0	.99	20	
Aroclor-1254 Peak # 3	B	192.23	AVRG		0.00520		192.23	0	.99	20	
Aroclor-1254 Peak # 4	B	385.57	AVRG		0.00259		385.57	0	.99	20	
Aroclor-1254 Peak # 5	B	262.24	AVRG		0.00381		262.24	0	.99	20	

341

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185558 PCBS Water
EPA 8082

Inst : GC06 Name : ar1660
Calnum : 206104291001 Cal Date: 14-MAR-2006

ICV 206104291031 (072_031 14-MAR-2006) stds: S2181

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Aroclor-1016	A	250.0	235.5	pg	-6	15	
Aroclor-1260	A	250.0	237.4	pg	-5	15	
Aroclor-1016	B	250.0	228.0	pg	-9	15	
Aroclor-1260	B	250.0	258.1	pg	3	15	

CONTINUING CALIBRATION SUMMARY FOR 185558 PCBS Water
Curtis & Tompkins Laboratories

Analyte: Aroclor-1016

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	206110134004	19-MAR-2006 12:07	206104291001	14-MAR-2006			500.00	470.09	pg	-6	15	
GC06	B	206110134004	19-MAR-2006 12:07	206104291001	14-MAR-2006			500.00	465.51	pg	-7	15	
GC06	A	206110134020	19-MAR-2006 19:27	206104291001	14-MAR-2006			250.00	258.72	pg	3	15	
GC06	B	206110134020	19-MAR-2006 19:27	206104291001	14-MAR-2006			250.00	257.64	pg	3	15	
GC06	A	206110134071	21-MAR-2006 01:21	206104291001	14-MAR-2006			250.00	278.87	pg	12	15	
GC06	B	206110134071	21-MAR-2006 01:21	206104291001	14-MAR-2006			250.00	279.29	pg	12	15	
GC06	A	206110134085	21-MAR-2006 07:47	206104291001	14-MAR-2006			100.00	114.05	pg	14	15	
GC06	B	206110134085	21-MAR-2006 07:47	206104291001	14-MAR-2006			100.00	110.03	pg	10	15	

CONTINUING CALIBRATION SUMMARY FOR 185558 PCBS Water
Curtis & Tompkins Laboratories

Analyte: Aroclor-1221

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	206110134006	19-MAR-2006 13:02	206105777001	14-MAR-2006			250.00	239.47	pg	-4	15	
GC06	B	206110134006	19-MAR-2006 13:02	206105777001	14-MAR-2006			250.00	248.47	pg	-1	15	
GC06	A	206110134022	19-MAR-2006 20:22	206105777001	14-MAR-2006			250.00	241.72	pg	-3	15	
GC06	B	206110134022	19-MAR-2006 20:22	206105777001	14-MAR-2006			250.00	235.03	pg	-6	15	
GC06	A	206110134073	21-MAR-2006 02:16	206105777001	14-MAR-2006			250.00	284.65	pg	14	15	
GC06	B	206110134073	21-MAR-2006 02:16	206105777001	14-MAR-2006			250.00	294.46	pg	**18**	15	c+ *** ch Ack.

+=high bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 185558 PCBS Water
Curtis & Tompkins Laboratories

Analyte: Aroclor-1254

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	206110134006	19-MAR-2006 13:02	206105777001	14-MAR-2006			250.00	238.59	pg	-5	15	
GC06	B	206110134006	19-MAR-2006 13:02	206105777001	14-MAR-2006			250.00	236.18	pg	-6	15	
GC06	A	206110134022	19-MAR-2006 20:22	206105777001	14-MAR-2006			250.00	225.58	pg	-10	15	
GC06	B	206110134022	19-MAR-2006 20:22	206105777001	14-MAR-2006			250.00	230.27	pg	-8	15	
GC06	A	206110134073	21-MAR-2006 02:16	206105777001	14-MAR-2006			250.00	271.75	pg	9	15	
GC06	B	206110134073	21-MAR-2006 02:16	206105777001	14-MAR-2006			250.00	281.59	pg	13	15	

CONTINUING CALIBRATION SUMMARY FOR 185558 PCBS Water
Curtis & Tompkins Laboratories

Analyte: Aroclor-1260

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	206110134004	19-MAR-2006 12:07	206104291001	14-MAR-2006			500.00	456.62	pg	-9	15	
GC06	B	206110134004	19-MAR-2006 12:07	206104291001	14-MAR-2006			500.00	456.72	pg	-9	15	
GC06	A	206110134020	19-MAR-2006 19:27	206104291001	14-MAR-2006			250.00	232.59	pg	-7	15	
GC06	B	206110134020	19-MAR-2006 19:27	206104291001	14-MAR-2006			250.00	222.72	pg	-11	15	
GC06	A	206110134071	21-MAR-2006 01:21	206104291001	14-MAR-2006			250.00	277.71	pg	11	15	
GC06	B	206110134071	21-MAR-2006 01:21	206104291001	14-MAR-2006			250.00	274.73	pg	10	15	
GC06	A	206110134085	21-MAR-2006 07:47	206104291001	14-MAR-2006			100.00	101.00	pg	1	15	
GC06	B	206110134085	21-MAR-2006 07:47	206104291001	14-MAR-2006			100.00	103.33	pg	3	15	

CONTINUING CALIBRATION SUMMARY FOR 185558 PCBS Water
Curtis & Tompkins Laboratories

Analyte: TCMX

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	206110134004	19 MAR 2006 12:07	206104291001	14-MAR-2006	7571.5	7929.2	100.00	104.72	pg	5	15	
GC06	B	206110134004	19-MAR-2006 12:07	206104291001	14-MAR-2006	5397.3	5824.7	100.00	107.92	pg	8	15	
GC06	A	206110134020	19-MAR-2006 19:27	206104291001	14-MAR-2006	7571.5	8311.9	50.000	54.889	pg	10	15	
GC06	B	206110134020	19-MAR-2006 19:27	206104291001	14-MAR-2006	5397.3	5974.2	50.000	55.344	pg	11	15	
GC06	A	206110134071	21-MAR-2006 01:21	206104291001	14-MAR-2006	7571.5	9014.0	50.000	59.526	pg	**19**	15	c+ > DEBOL
GC06	B	206110134071	21-MAR-2006 01:21	206104291001	14-MAR-2006	5397.3	6553.1	50.000	60.708	pg	**21**	15	c+
GC06	A	206110134085	21-MAR-2006 07:47	206104291001	14-MAR-2006	7571.5	8226.8	20.000	21.731	pg	9	15	
GC06	B	206110134085	21-MAR-2006 07:47	206104291001	14-MAR-2006	5397.3	5715.2	20.000	21.178	pg	6	15	

+=high bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 185558 PCBS Water
Curtis & Tompkins Laboratories

Analyte: Decachlorobiphenyl

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	206110134004	19-MAR-2006 12:07	206104291001	14-MAR-2006	8378.2	7174.4	100.00	85.632	pg	-14	15	
GC06	B	206110134004	19-MAR-2006 12:07	206104291001	14-MAR-2006	6007.6	5495.8	100.00	91.482	pg	-9	15	
GC06	A	206110134020	19-MAR-2006 19:27	206104291001	14-MAR-2006	8378.2	7370.1	50.000	43.984	pg	-12	15	
GC06	B	206110134020	19-MAR-2006 19:27	206104291001	14-MAR-2006	6007.6	5345.6	50.000	44.491	pg	-11	15	
GC06	A	206110134071	21-MAR-2006 01:21	206104291001	14-MAR-2006	8378.2	8836.5	50.000	52.735	pg	5	15	
GC06	B	206110134071	21-MAR-2006 01:21	206104291001	14-MAR-2006	6007.6	6591.2	50.000	54.857	pg	10	15	
GC06	A	206110134085	21-MAR-2006 07:47	206104291001	14-MAR-2006	8378.2	8216.2	20.000	19.613	pg	-2	15	
GC06	B	206110134085	21-MAR-2006 07:47	206104291001	14-MAR-2006	6007.6	5879.9	20.000	19.575	pg	-2	15	

SEQUENCE SUMMARY FOR 185558 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206104291 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 13-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	072_001	X	hex			13-MAR-2006 10:11	1.0						
002	072_002	X	pcb250_50			13-MAR-2006 10:38	1.0					1	
003	072_003	X	ccv			13-MAR-2006 11:06	1.0					1	
004	072_004	X	hex			13-MAR-2006 11:43	1.0						
005	072_005	X	pcb250_50			13-MAR-2006 12:10	1.0					1	
006	072_006	CCV	pcb250_50			13-MAR-2006 12:38	1.0	1.0			1	1	
007	072_007	CCV	ar2154			13-MAR-2006 19:24	1.0	1.0			1	2	
008	072_008	X	ccv			13-MAR-2006 19:51	1.0					2	
009	072_009	X	hex			13-MAR-2006 20:19	1.0						
010	072_010	BLANK	QC331127	111220	Water	13-MAR-2006 20:46	1.0	0.025	1	1	1		
011	072_011	BS	QC331128	111220	Water	13-MAR-2006 21:14	1.0	0.025		2	1		
012	072_012	BSD	QC331129	111220	Water	13-MAR-2006 21:41	1.0	0.025		2	1		
013	072_013	SAMPLE	185464-001	111220	Water	13-MAR-2006 22:08	1.0	0.02381	18		1	sh	
014	072_014	SAMPLE	185327-003	111144	Soil	13-MAR-2006 22:36	1.0	0.8333	1		1		
015	072_015	SAMPLE	185327-004	111144	Soil	13-MAR-2006 23:03	1.0	0.8336	1		1		
016	072_016	X	hex			13-MAR-2006 23:31	1.0						
017	072_017	CCV	pcb750_150			13-MAR-2006 23:58	1.0	1.0	1		1	3	
018	072_018	X	ccv			14-MAR-2006 00:26	2102						
019	072_019	CCV	ar2154			14-MAR-2006 00:53	1.0	1.0			1	2	
020	072_020	X	ccv			14-MAR-2006 01:21	1.0					2	
021	072_021	X	hex			14-MAR-2006 01:48	1.0						
022	072_022	X	hex			14-MAR-2006 02:16	1.0						
023	072_023	ICAL	pcb10_2			14-MAR-2006 02:43	1.0	1.0				4	
024	072_024	ICAL	pcb25_5			14-MAR-2006 03:11	1.0	1.0				5	
025	072_025	ICAL	pcb100_20			14-MAR-2006 03:38	1.0	1.0				6	
026	072_026	ICAL	pcb250_50			14-MAR-2006 04:06	1.0	1.0				1	
027	072_027	ICAL	pcb500_100			14-MAR-2006 04:33	1.0	1.0				7	
028	072_028	ICAL	pcb750_150			14-MAR-2006 05:01	1.0	1.0				3	
029	072_029	ICAL	pcb1000_200			14-MAR-2006 05:28	1.0	1.0				8	
030	072_030	X	hex			14-MAR-2006 05:55	1.0						

Stds used: 1=S2770 2=S2665 3=S2102 4=S2097 5=S2098 6=S2099 7=S2771 8=S2103 9=S2181
Flags used: sh=out of sample hold

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SEQUENCE SUMMARY FOR 185558 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206104291 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 13-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
031	072_031	ICV	ultra_1660			14-MAR-2006 06:23	1.0	1.0		1	9	
032	072_032	X	icv			14-MAR-2006 06:51	1.0				9	
033	072_033	X	hex			14-MAR-2006 07:18	1.0					

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Stds used: 1=S2770 2=S2665 3=S2102 4=S2097 5=S2098 6=S2099 7=S2771 8=S2103 9=S2181
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 185558 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206105777 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 14-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	073_001	X	hex			14-MAR-2006 10:57	1.0						
002	073_002	CCV	pcb500_100			14-MAR-2006 11:25	1.0	1.0			1	1	
003	073_003	X	pcb500_100			14-MAR-2006 11:52	1.0					1	
004	073_004	X	ccv			14-MAR-2006 12:20	1.0					2	
005	073_005	ICAL	ar2154			14-MAR-2006 12:47	1.0	1.0				2	
006	073_006	BS	QC331128	111220	Water	14-MAR-2006 13:23	1.0	0.025			1		
007	073_007	BSD	QC331129	111220	Water	14-MAR-2006 13:51	1.0	0.025			1		
008	073_008	X	ccv			14-MAR-2006 19:00	1.0					3	
009	073_009	X	ccv			14-MAR-2006 19:27	1.0					3	
010	073_010	X	ccv			14-MAR-2006 19:55	1.0					4	
011	073_011	ICAL	ar1248			14-MAR-2006 20:23	1.0	1.0				5	
012	073_012	X	hex			14-MAR-2006 20:50	1.0						
013	073_013	BLANK	QC331271	111254	Soil	14-MAR-2006 21:18	1.0	0.6707		4	1		
014	073_014	LCS	QC331275	111254	Soil	14-MAR-2006 21:45	1.0	0.6739			1		
015	073_015	SAMPLE	185004-012	111036	Soil	14-MAR-2006 22:13	1.0	0.6667	20		1	sh	351
016	073_016	MSS	184976-021	110898	Soil	14-MAR-2006 22:40	1.0	0.6739			1		
017	073_017	SAMPLE	184976-023	110898	Soil	14-MAR-2006 23:08	1.0	0.6671			1		
018	073_018	MSS	185417-001	111254	Soil	14-MAR-2006 23:35	1.0	0.6596			1		
019	073_019	SAMPLE	185417-002	111254	Soil	15-MAR-2006 00:03	1.0	0.6658			1		
020	073_020	SAMPLE	185490-001	111254	Soil	15-MAR-2006 00:30	1.0	0.6687			1		
021	073_021	X	hex			15-MAR-2006 00:58	1.0						
022	073_022	X	pcb250_50			15-MAR-2006 01:25	1.0					6	
023	073_023	CCV	pcb250_50			15-MAR-2006 01:53	1.0	1.0			1	6	
024	073_024	CCV	ar2154			15-MAR-2006 02:20	1.0	1.0			1	2	
025	073_025	X	ccv			15-MAR-2006 02:48	1.0					2	
026	073_026	X	ccv			15-MAR-2006 03:15	1.0					3	
027	073_027	X	ccv			15-MAR-2006 03:43	1.0					3	
028	073_028	ICAL	ar1242			15-MAR-2006 04:10	1.0	1.0				4	
029	073_029	CCV	ar1248			15-MAR-2006 04:38	1.0	1.0			1	5	
030	073_030	X	hex			15-MAR-2006 05:05	1.0						

Stds used: 1=S2101 2=S2665 3=S2638 4=S2524 5=S2706 6=S2770 7=S2102
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 185558 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206105777 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 14-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
031	073_031	SAMPLE	185461-003	111254	Soil	15-MAR-2006 05:33	1.0	0.6588			1		
032	073_032	SAMPLE	185406-016	111254	Miscel	15-MAR-2006 06:00	1.0	0.6575			1		
033	073_033	SAMPLE	185406-017	111254	Miscel	15-MAR-2006 06:28	1.0	0.6716	1		1	1:PCB126=1570.96	
034	073_034	SAMPLE	185406-018	111254	Miscel	15-MAR-2006 06:55	1.0						
035	073_035	MSS	185406-019	111254	Miscel	15-MAR-2006 07:23	1.0	0.6723			1		
036	073_036	MS	QC331276	111254	Miscel	15-MAR-2006 07:50	1.0	0.6616			1		
037	073_037	MSD	QC331277	111254	Miscel	15-MAR-2006 08:18	1.0	0.675		4	1	2:PCB101=1278.98	
038	073_038	X	hex			15-MAR-2006 08:45	1.0						
039	073_039	BLANK	QC331271	111254	Soil	15-MAR-2006 09:35	1.0	0.6707		4	1		
040	073_040	CCV	pcb750_150			15-MAR-2006 10:03	1.0	1.0			1	7	
041	073_041	X	ccv			15-MAR-2006 10:30	2102						
042	073_042	CCV	2154			15-MAR-2006 10:58	1.0	1.0			1	2	
043	073_043	X	ccv			15-MAR-2006 11:25	1.0					2	
044	073_044	CCV	ar1242			15-MAR-2006 12:04	1.0	1.0			1	4	
045	073_045	X	ccv			15-MAR-2006 12:31	1.0					4	

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Stds used: 1=S2101 2=S2665 3=S2638 4=S2524 5=S2706 6=S2770 7=S2102
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 185558 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206110134 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 17-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	076_001	X	hex			17-MAR-2006 11:34	1.0					
002	076_002	X	pcb500_100			17-MAR-2006 12:02	1.0				1	
003	076_003	X	pcb500_100			17-MAR-2006 12:29	1.0				1	
004	076_004	CCV	pcb500_100			19-MAR-2006 12:07	1.0	1.0		1	1	
005	076_005	X	pcb500_100			19-MAR-2006 12:34	1.0				1	
006	076_006	CCV	ar2154			19-MAR-2006 13:02	1.0	1.0		1	2	
007	076_007	X	ccv			19-MAR-2006 13:29	1.0				2	
008	076_008	X	hex			19-MAR-2006 13:57	1.0					
009	076_009	BLANK	QC331949	111414	Soil	19-MAR-2006 14:24	1.0	0.6633		1		
010	076_010	LCS	QC331950	111414	Soil	19-MAR-2006 14:52	1.0	0.6636		1		
011	076_011	BLANK	QC331819	111385	Water	19-MAR-2006 15:19	1.0	0.025		1		
012	076_012	LCS	QC331820	111385	Water	19-MAR-2006 15:47	1.0	0.025		1		
013	076_013	MSS	185457-016	111385	Water	19-MAR-2006 16:15	1.0	0.02381		1		
014	076_014	MS	QC331821	111385	Water	19-MAR-2006 16:42	1.0	0.02381		1		
015	076_015	MSD	QC331822	111385	Water	19-MAR-2006 17:10	1.0	0.02381		1		353
016	076_016	MSS	185575-008	111414	Soil	19-MAR-2006 17:37	1.0	0.6656		1		
017	076_017	MS	QC331951	111414	Soil	19-MAR-2006 18:05	1.0	0.6664		1		
018	076_018	MSD	QC331952	111414	Soil	19-MAR-2006 18:32	1.0	0.6709		1		
019	076_019	X	hex			19-MAR-2006 19:00	1.0					
020	076_020	CCV	pcb250_50			19-MAR-2006 19:27	1.0	1.0		1	3	
021	076_021	X	pcb250_50			19-MAR-2006 19:55	1.0	1.0	2	1	3	
022	076_022	CCV	ar2154			19-MAR-2006 20:22	1.0	1.0		1	2	
023	076_023	X	ccv			19-MAR-2006 20:50	1.0				2	
024	076_024	X	hex			19-MAR-2006 21:17	1.0					
025	076_025	SAMPLE	185540-001	111414	Miscel	19-MAR-2006 21:45	1.0	0.6612		1		
026	076_026	SAMPLE	185540-002	111414	Miscel	19-MAR-2006 22:12	1.0	0.6757		1		
027	076_027	SAMPLE	185540-003	111414	Miscel	19-MAR-2006 22:40	1.0	0.6754		1		
028	076_028	SAMPLE	185540-004	111414	Miscel	19-MAR-2006 23:08	1.0	0.6766		1		
029	076_029	SAMPLE	185540-005	111414	Miscel	19-MAR-2006 23:35	1.0	0.6757		1		
030	076_030	SAMPLE	185540-006	111414	Miscel	20-MAR-2006 00:03	1.0	0.672		1		
031	076_031	SAMPLE	185540-007	111414	Miscel	20-MAR-2006 00:30	1.0	0.6609		1		

Stds used: 1=S2101 2=S2665 3=S2770 4=S2099 5=S2638

SEQUENCE SUMMARY FOR 185558 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206110134 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 17-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	076_032	SAMPLE	185540-008	111414	Miscel	20-MAR-2006 00:58	1.0	0.6709			1		
033	076_033	SAMPLE	185545-001	111414	Soil	20-MAR-2006 01:25	1.0						
034	076_034	SAMPLE	185545-002	111414	Soil	20-MAR-2006 01:53	1.0	0.6748			1		
035	076_035	X	hex			20-MAR-2006 02:20	1.0						
036	076_036	X	pcb100_20			20-MAR-2006 02:48	1.0					4	
037	076_037	CCV	pcb100_20			20-MAR-2006 03:15	1.0	1.0			1	4	
038	076_038	CCV	ar2154			20-MAR-2006 03:43	1.0	1.0			1	2	
039	076_039	X	ccv			20-MAR-2006 04:10	1.0					2	
040	076_040	X	hex			20-MAR-2006 08:48	1.0						
041	076_041	MSS	185545-003	111414	Soil	20-MAR-2006 09:16	1.0						
042	076_042	SAMPLE	185545-004	111414	Soil	20-MAR-2006 09:43	1.0	0.6649			1		
043	076_043	SAMPLE	185575-001	111414	Soil	20-MAR-2006 10:11	1.0						
044	076_044	SAMPLE	185575-002	111414	Soil	20-MAR-2006 10:38	1.0						
045	076_045	SAMPLE	185575-003	111414	Soil	20-MAR-2006 11:06	1.0						
046	076_046	SAMPLE	185575-004	111414	Soil	20-MAR-2006 11:33	1.0						354
047	076_047	SAMPLE	185575-005	111414	Soil	20-MAR-2006 12:01	1.0						
048	076_048	SAMPLE	185575-006	111414	Soil	20-MAR-2006 12:28	1.0						
049	076_049	SAMPLE	185575-007	111414	Soil	20-MAR-2006 12:56	1.0						
050	076_050	SAMPLE	185511-012	111385	Water	20-MAR-2006 13:23	1.0	0.02475			1		
051	076_051	X	hex			20-MAR-2006 13:51	1.0						
052	076_052	X	pcb500_100			20-MAR-2006 14:18	1.0					1	
053	076_053	CCV	pcb500_100			20-MAR-2006 14:46	1.0	1.0			1	1	
054	076_054	CCV	ar2154			20-MAR-2006 15:14	1.0	1.0			1	2	
055	076_055	X	ccv			20-MAR-2006 15:41	1.0					2	
056	076_056	X	hex			20-MAR-2006 16:09	1.0						
057	076_057	X	ar1268			20-MAR-2006 18:56	1.0	1.0				5	
058	076_058	X	ccv			20-MAR-2006 19:24	1.0					5	
059	076_059	X	hex			20-MAR-2006 19:51	1.0						
060	076_060	MSS	185575-008	111414	Soil	20-MAR-2006 20:19	1.0						
061	076_061	SAMPLE	185545-001	111414	Soil	20-MAR-2006 20:46	10.0	0.677			1		
062	076_062	MSS	185545-003	111414	Soil	20-MAR-2006 21:14	10.0	0.67	12		1		12:PCB126=1600.01

Stds used: 1=S2101 2=S2665 3=S2770 4=S2099 5=S2638

SEQUENCE SUMMARY FOR 185558 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206110134 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 17-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
063	076_063	SAMPLE	185575-001	111414	Soil	20-MAR-2006 21:41	50.0						
064	076_064	SAMPLE	185575-002	111414	Soil	20-MAR-2006 22:09	10.0						
065	076_065	SAMPLE	185575-003	111414	Soil	20-MAR-2006 22:36	1.0						
066	076_066	SAMPLE	185575-004	111414	Soil	20-MAR-2006 23:04	25.0						
067	076_067	?SAMPLE	185575-005	111414		20-MAR-2006 23:31	1.0						
068	076_068	SAMPLE	185575-006	111414	Soil	20-MAR-2006 23:59	5.0						
069	076_069	SAMPLE	185575-007	111414	Soil	21-MAR-2006 00:26	5.0						
070	076_070	X	hex			21-MAR-2006 00:54	1.0						
071	076_071	CCV	pcb250_50			21-MAR-2006 01:21	1.0	1.0			1	3	
072	076_072	X	pcb250_50			21-MAR-2006 01:49	1.0					3	
073	076_073	CCV	ar2154			21-MAR-2006 02:16	1.0	1.0	1		1	2	
074	076_074	X	ccv			21-MAR-2006 02:44	1.0					2	
075	076_075	X	ccv			21-MAR-2006 03:11	1.0					5	
076	076_076	X	ccv			21-MAR-2006 03:39	1.0					5	
077	076_077	X	hex			21-MAR-2006 04:06	1.0						355
078	076_078	SAMPLE	185511-013	111385	Water	21-MAR-2006 04:34	1.0	0.02358			1		
079	076_079	SAMPLE	185558-011	111385	Water	21-MAR-2006 05:02	1.0	0.02404			1		
080	076_080	SAMPLE	185558-013	111385	Water	21-MAR-2006 05:29	1.0	0.02381			1		
081	076_081	SAMPLE	185558-014	111385	Water	21-MAR-2006 05:57	1.0	0.02381			1		
082	076_082	SAMPLE	185558-015	111385	Water	21-MAR-2006 06:24	1.0	0.02381			1		
083	076_083	SAMPLE	185566-001	111385	Water	21-MAR-2006 06:52	1.0	0.02			1		
084	076_084	X	hex			21-MAR-2006 07:19	1.0						
085	076_085	CCV	pcb100_20			21-MAR-2006 07:47	1.0	1.0			1	4	
086	076_086	X	ccv			21-MAR-2006 08:14	1.0					4	
087	076_087	X	ccv			21-MAR-2006 08:42	1.0					2	
088	076_088	X	ccv			21-MAR-2006 09:09	1.0					2	
089	076_089	X	ccv			21-MAR-2006 09:37	1.0					5	
090	076_090	X	ccv			21-MAR-2006 10:04	1.0					5	
091	076_091	X	hex			21-MAR-2006 10:32	1.0						

Stds used: 1=S2101 2=S2665 3=S2770 4=S2099 5=S2638

REPORTING SUMMARY FOR 185558 PCBS Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185558-011	Aroclor-1016	GC06	A	03/21/06 05:02
185558-011	Aroclor-1221	GC06	A	03/21/06 05:02
185558-011	Aroclor-1232	GC06	A	03/21/06 05:02
185558-011	Aroclor-1242	GC06	A	03/21/06 05:02
185558-011	Aroclor-1248	GC06	A	03/21/06 05:02
185558-011	Aroclor-1254	GC06	A	03/21/06 05:02
185558-011	Aroclor-1260	GC06	A	03/21/06 05:02
185558-011	TCMX	GC06	A	03/21/06 05:02
185558-011	Decachlorobiphenyl	GC06	A	03/21/06 05:02
185558-013	Aroclor-1016	GC06	A	03/21/06 05:29
185558-013	Aroclor-1221	GC06	A	03/21/06 05:29
185558-013	Aroclor-1232	GC06	A	03/21/06 05:29
185558-013	Aroclor-1242	GC06	A	03/21/06 05:29
185558-013	Aroclor-1248	GC06	A	03/21/06 05:29
185558-013	Aroclor-1254	GC06	A	03/21/06 05:29
185558-013	Aroclor-1260	GC06	A	03/21/06 05:29
185558-013	TCMX	GC06	A	03/21/06 05:29
185558-013	Decachlorobiphenyl	GC06	A	03/21/06 05:29
185558-014	Aroclor-1016	GC06	A	03/21/06 05:57
185558-014	Aroclor-1221	GC06	A	03/21/06 05:57
185558-014	Aroclor-1232	GC06	A	03/21/06 05:57
185558-014	Aroclor-1242	GC06	A	03/21/06 05:57
185558-014	Aroclor-1248	GC06	A	03/21/06 05:57
185558-014	Aroclor-1254	GC06	A	03/21/06 05:57
185558-014	Aroclor-1260	GC06	A	03/21/06 05:57
185558-014	TCMX	GC06	A	03/21/06 05:57
185558-014	Decachlorobiphenyl	GC06	A	03/21/06 05:57
185558-015	Aroclor-1016	GC06	A	03/21/06 06:24
185558-015	Aroclor-1221	GC06	A	03/21/06 06:24
185558-015	Aroclor-1232	GC06	A	03/21/06 06:24
185558-015	Aroclor-1242	GC06	A	03/21/06 06:24
185558-015	Aroclor-1248	GC06	A	03/21/06 06:24
185558-015	Aroclor-1254	GC06	A	03/21/06 06:24
185558-015	Aroclor-1260	GC06	A	03/21/06 06:24
185558-015	TCMX	GC06	A	03/21/06 06:24
185558-015	Decachlorobiphenyl	GC06	A	03/21/06 06:24
QC331819	Aroclor-1016	GC06	A	03/19/06 15:19
QC331819	Aroclor-1221	GC06	A	03/19/06 15:19
QC331819	Aroclor-1232	GC06	A	03/19/06 15:19
QC331819	Aroclor-1242	GC06	A	03/19/06 15:19
QC331819	Aroclor-1248	GC06	A	03/19/06 15:19
QC331819	Aroclor-1254	GC06	A	03/19/06 15:19
QC331819	Aroclor-1260	GC06	A	03/19/06 15:19
QC331819	TCMX	GC06	A	03/19/06 15:19
QC331819	Decachlorobiphenyl	GC06	A	03/19/06 15:19
QC331820	Aroclor-1221	GC06	A	03/19/06 15:47
QC331820	TCMX	GC06	A	03/19/06 15:47
QC331820	Decachlorobiphenyl	GC06	A	03/19/06 15:47

REPORTING SUMMARY FOR 185558 PCBS Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC331821	Aroclor-1221	GC06	A	03/19/06 16:42
QC331821	TCMX	GC06	A	03/19/06 16:42
QC331821	Decachlorobiphenyl	GC06	A	03/19/06 16:42
QC331822	Aroclor-1221	GC06	A	03/19/06 17:10
QC331822	TCMX	GC06	A	03/19/06 17:10
QC331822	Decachlorobiphenyl	GC06	A	03/19/06 17:10

Curtis & Tompkins Laboratories **Sample Preparation Summary** **17-MAR-2006 13:23**

Batch Number : 111385
Date Extracted: 16-MAR-2006
Extracted by : Kristine Harrison
Prep Method : 3520C

Analysis : PCB
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2719A
Spike #2 ID : S2797A
Spike #3 ID :
SOP Version : PCB_w_rv7

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185457-016		Treadwell & Rollo	Water	1050	mL	25	0.023810	1	6	.05	0		PCB	3665A	mss
185511-012		Treadwell & Rollo	Water	1010	mL	25	0.024752	1	5	.05	0		PCB	3665A	
185511-013		Treadwell & Rollo	Water	1060	mL	25	0.023585	1	5	.05	0		PCB	3665A	
185558-011		Treadwell & Rollo	Water	1040	mL	25	0.024038	1	6	.05	0		PCB	3665A	
185558-013		Treadwell & Rollo	Water	1050	mL	25	0.023810	1	6	.05	0		PCB	3665A	
185558-014		Treadwell & Rollo	Water	1050	mL	25	0.023810	1	6	.05	0		PCB	3665A	
185558-015		Treadwell & Rollo	Water	1050	mL	25	0.023810	1	6	.05	0		PCB	3665A	
185566-001		Tetra Tech EC, Inc.	Water	500	mL	10	0.020000	1	6	.025	0		PCB	3665A	limited volume
QC331819	BLANK		Water	1000	mL	25	0.025000	1		.05	0		PCB	3665A	
QC331820	LCS		Water	1000	mL	25	0.025000	1		.05	.05		PCB	3665A	
QC331821	MS	of 185457-016	Water	1050	mL	25	0.023810	1	6	.05	.05		PCB	3665A	
QC331822	MSD	of 185457-016	Water	1050	mL	25	0.023810	1	6	.05	.05		PCB	3665A	

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Prep Chemist: Kristine Harrison Reviewed By: [signature] Date: 3/17/06

Relinquished By: Dan McC Received By: Jennifer Gargano Date: 3/20/06

Curtis & Tompkins, Ltd

PCB WATER PREP LOG

BK 2231
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LIMS Batch No: 111385
LIMS Analysis: PCB
Extracted by: KMH
Date Extracted: 3/16/06

Extraction Method:
☐ EPA 3510c Sep. Funnel
☑ EPA 3520c Continuous L/L
☐ Other

Sample # & letter	Volume of Sample (mL)	Sample pH	Funnel Volume (mL)	Comments
185457-016AG	1050	6	2[illegible]	MSS
185511-012 R	1010	5		
13 S	1060	5		
185558-011 K	1040	6		
13 I	1050			
14 J	1050			
15 L	1050			
185566-001 QN	~~1000~~ 500 KMH 3/16/06		DLM 3/17/06	★
MB QC331819 KMH 3/16/06	1000	NA	DLM 3/17/06	
LCS 20				
MS 21	1050	6		KMH 3/16/06 185457-016AE
MSD 22		6		AF
				RMD 3/17/06

0.05 (0.025★) mL of surrogate solution was added to all samples
0.05 mL of spike solution AR 1221 was added to all spikes
☑ Samples were continuously extracted with about 450 mL CH_2Cl_2
Extraction Start Time:
Extraction End Time:
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4
Concentrated to volumes noted above after 2x exchange w/ Hexane lot#
EPA 3665A Clean-up: Vortexed w/ 10mL H_2SO_4 lot #
Centrifuged for 1min; 10mL transferred to labelled vial

Mfg. & Lot# / LIMS # / Time	Date/ Initials
[illegible]A	KMH 3/16/06
[illegible]7A	
[illegible]014	
1325	
0725	DLM 3/17/06
NA	
[illegible]532	
CP890	
JTB 824063	
✓	

Kmh 3/16/06
Extraction Chemist **Date**

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Contined from Page
Continued on Page

3/17/06
Reviewed by **Date**

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8082 Water
As of 04/08/06

Analyte	Units	GC06 A	GC06 B	GC22 A	GC22 B	GC25 A	GC25 B
Aroclor-1016	ug/L	0.054	0.054	0.058	0.029	0.11	0.12
Aroclor-1221	ug/L	0.31	0.29	0.41	0.33	0.37	0.63
Aroclor-1232	ug/L	0.11	0.088	0.19	0.34	0.16	0.087
Aroclor-1242	ug/L	0.15	0.16	0.24	0.22	0.14	0.15
Aroclor-1248	ug/L	0.30	0.34	0.097	0.061	0.038	0.051
Aroclor-1254	ug/L	0.086	0.11	0.11	0.14	0.12	0.13
Aroclor-1260	ug/L	0.079	0.14	0.059	0.037	0.097	0.12

POLYAROMATIC HYDROCARBONS

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	DAEGW03	Batch#:	111439
Lab ID:	185558-011	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Prepared:	03/19/06
Diln Fac:	1.000	Analyzed:	03/21/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.95	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.95	
Fluorene	ND	0.95	
Phenanthrene	ND	0.48	
Anthracene	ND	0.48	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	98	65-135
1-Methylnaphthalene (F)	90	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	DAEGW04	Batch#:	111439
Lab ID:	185558-012	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Prepared:	03/19/06
Diln Fac:	1.000	Analyzed:	03/21/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	96	65-135
1-Methylnaphthalene (F)	90	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	DAEGW05	Batch#:	111439
Lab ID:	185558-013	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Prepared:	03/19/06
Diln Fac:	1.000	Analyzed:	03/21/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.95	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.95	
Fluorene	ND	0.95	
Phenanthrene	ND	0.48	
Anthracene	ND	0.48	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	90	65-135
1-Methylnaphthalene (F)	86	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	DAEGW08	Batch#:	111439
Lab ID:	185558-014	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Prepared:	03/19/06
Diln Fac:	1.000	Analyzed:	03/21/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	87	65-135
1-Methylnaphthalene (F)	83	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	DAEGW103	Batch#:	111439
Lab ID:	185558-015	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Prepared:	03/19/06
Diln Fac:	1.000	Analyzed:	03/21/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	91	65-135
1-Methylnaphthalene (F)	86	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	600GW109	Batch#:	111439
Lab ID:	185558-016	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	ug/L	Prepared:	03/19/06
Diln Fac:	1.000	Analyzed:	03/21/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	96	65-135
1-Methylnaphthalene (F)	90	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332068	Batch#:	111439
Matrix:	Water	Prepared:	03/19/06
Units:	ug/L	Analyzed:	03/21/06

Analyte	Result	RL	MDL
Naphthalene	ND	1.0	
Acenaphthylene	ND	2.0	
Acenaphthene	ND	1.0	
Fluorene	ND	1.0	
Phenanthrene	ND	0.50	
Anthracene	ND	0.50	0.008
Fluoranthene	ND	0.40	0.02
Pyrene	ND	0.20	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	87	65-135
1-Methylnaphthalene (F)	84	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Matrix:	Water	Batch#:	111439
Units:	ug/L	Prepared:	03/19/06
Diln Fac:	1.000	Analyzed:	03/21/06

Type: BS Lab ID: QC332069

Analyte	Spiked	Result	%REC	Limits
Naphthalene	10.00	8.808	88	50-135
Fluorene	2.000	1.764	88	65-135
Pyrene	1.000	0.8344	83	65-135
Benzo(a)pyrene	1.000	0.8327	83	65-135

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	83	65-135
1-Methylnaphthalene (F)	79	65-135

Type: BSD Lab ID: QC332070

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Naphthalene	10.00	9.260	93	50-135	5	35
Fluorene	2.000	1.901	95	65-135	8	35
Pyrene	1.000	0.9027	90	65-135	8	35
Benzo(a)pyrene	1.000	0.9004	90	65-135	8	35

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	92	65-135
1-Methylnaphthalene (F)	87	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185558 HPLC Water: EPA 8310

Inst : HPLC04
Calnum : 295454249001
Units : ug/L

Date : 11-NOV-2005 13:27
X Axis : R

Reviewer: MCH
Inj Vol : 10 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	31500006	295454249006		11-NOV-2005 13:27	S1620
L2	31500007	295454249007		11-NOV-2005 13:58	S1619
L3	31500008	295454249008		11-NOV-2005 14:30	S1618
L4	31500009	295454249009		11-NOV-2005 15:02	S1617
L5	31500010	295454249010		11-NOV-2005 15:33	S1616
L6	31500011	295454249011		11-NOV-2005 16:05	S1615
L7	31500012	295454249012		11-NOV-2005 16:36	S1614

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Naphthalene	1	0.0130	0.0130	0.0130	0.0132	0.0131	0.0129	0.0130	LINR	-24.714	77.1181		0.0130	1.000	0.99	20	
Acenaphthylene	1	0.0092	0.0091	0.0093	0.0095	0.0094	0.0092	0.0091	LINR	-214.44	109.425		0.0093	1.000	0.99	20	
Acenaphthene	1	0.0049	0.0049	0.0051	0.0052	0.0051	0.0050	0.0050	LINR	-85.609	200.350		0.0050	1.000	0.99	20	
Fluorene	1	0.0623	0.0618	0.0631	0.0639	0.0633	0.0627	0.0629	LINR	-2.8635	15.9062		0.0629	1.000	0.99	20	
Phenanthrene	1	0.1801	0.1766	0.1803	0.1826	0.1801	0.1784	0.1795	LINR	-1.3045	5.57871		0.1797	1.000	0.99	20	
Anthracene	1	0.4031	0.4032	0.4080	0.4134	0.4084	0.4043	0.4050	LINR	-3.4533	2.47159		0.4065	1.000	0.99	20	
Fluoranthene	1	0.0405	0.0401	0.0407	0.0416	0.0411	0.0407	0.0412	LINR	4.76117	24.3260		0.0408	1.000	0.99	20	
Pyrene	1	0.0324	0.0319	0.0332	0.0334	0.0330	0.0331	0.0336	LINR	8.56100	29.7835		0.0329	1.000	0.99	20	
Benzo(a)anthracene	1	0.0846	0.0904	0.0906	0.0917	0.0910	0.0903	0.0918	LINR	6.16312	10.9120		0.0901	1.000	0.99	20	
Chrysene	1	0.1299	0.1298	0.1319	0.1351	0.1332	0.1321	0.1335	LINR	2.64524	7.49865		0.1322	1.000	0.99	20	
Benzo(b)fluoranthene	1	0.0989	0.1025	0.1054	0.1076	0.1069	0.1059	0.1068	LINR	5.37165	9.37329		0.1049	1.000	0.99	20	
Benzo(k)fluoranthene	1	0.0806	0.0758	0.0785	0.0804	0.0803	0.0803	0.0814	LINR	9.05452	12.2962		0.0796	1.000	0.99	20	
Benzo(a)pyrene	1	0.0781	0.0812	0.0842	0.0867	0.0863	0.0861	0.0870	LINR	8.12100	11.4914		0.0842	1.000	0.99	20	
Dibenz(a,h)anthracene	1	0.0174	0.0209	0.0203	0.0209	0.0211	0.0213	0.0216	LINR	28.9418	46.3202		0.0205	1.000	0.99	20	
Benzo(g,h,i)perylene	1	0.0332	0.0346	0.0347	0.0354	0.0353	0.0353	0.0357	LINR	17.3259	27.9927		0.0349	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	1	0.0843	0.0838	0.0916	0.0948	0.0947	0.0946	0.0953	LINR	8.70680	10.4860		0.0913	1.000	0.99	20	
1-Methylnaphthalene (UV)	1	0.0084	0.0085	0.0086	0.0086	0.0085	0.0084	0.0084	LINR	-262.66	119.128		0.0085	1.000	0.99	20	
Acenaphthylene	2	0.0273	0.0273	0.0279	0.0282	0.0280	0.0277	0.0279	LINR	7.54152	35.8750		0.0277	1.000	0.99	20	
1-Methylnaphthalene (UV)	2	0.0030	0.0030	0.0031	0.0031	0.0031	0.0030	0.0030	LINR	-125.29	329.273		0.0031	1.000	0.99	20	
Naphthalene	3	0.0118	0.0118	0.0118	0.0119	0.0119	0.0117	0.0116	LINR	-94.622	86.2298		0.0118	1.000	0.99	20	
Acenaphthene	3	0.0242	0.0241	0.0242	0.0246	0.0244	0.0239		LINR	-65.047	41.8154		0.0242	1.000	0.99	20	
Fluorene	3	0.1329	0.1328	0.1337	0.1349	0.1333	0.1303		LINR	-17.920	7.68242		0.1330	1.000	0.99	20	
Phenanthrene	3	0.1403	0.1414	0.1416	0.1432	0.1419	0.1386	0.1387	LINR	-8.7849	7.22392		0.1408	1.000	0.99	20	
Anthracene	3	0.4105	0.4089	0.4142	0.4203	0.4141	0.4106	0.4119	LINR	-2.5156	2.43034		0.4129	1.000	0.99	20	
Fluoranthene	3	0.0408	0.0402	0.0409	0.0415	0.0411	0.0406	0.0409	LINR	-2.6821	24.5038		0.0409	1.000	0.99	20	
Pyrene	3	0.1357	0.1319	0.1342	0.1369	0.1342	0.1312	0.1332	LINR	-2.1762	7.53143		0.1339	1.000	0.99	20	

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Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Benzo(a)anthracene	3	0.1507	0.1492	0.1525	0.1551	0.1526	0.1506	0.1519	LINR	-1.3548	6.59583		0.1518	1.000	0.99	20	
Chrysene	3	0.1830	0.1826	0.1864	0.1898	0.1872	0.1843	0.1845	LINR	-5.3078	5.42554		0.1854	1.000	0.99	20	
Benzo(b)fluoranthene	3	0.0661	0.0655	0.0671	0.0681	0.0672	0.0664	0.0670	LINR	-0.3738	14.9546		0.0668	1.000	0.99	20	
Benzo(k)fluoranthene	3	0.3904	0.3881	0.3960	0.4014	0.3974	0.3923	0.3904	LINR	-7.1975	2.56238		0.3937	1.000	0.99	20	
Benzo(a)pyrene	3	0.2124	0.2112	0.2162	0.2193	0.2168	0.2137	0.2143	LINR	-3.8765	4.67175		0.2148	1.000	0.99	20	
Dibenz(a,h)anthracene	3	0.0298	0.0299	0.0311	0.0319	0.0317	0.0316	0.0320	LINR	14.7159	31.2756		0.0311	1.000	0.99	20	
Benzo(g,h,i)perylene	3	0.0617	0.0613	0.0626	0.0641	0.0636	0.0633	0.0639	LINR	8.49542	15.6646		0.0629	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	3	0.0928	0.0930	0.0946	0.0968	0.0967	0.0963	0.0973	LINR	6.16011	10.2852		0.0953	1.000	0.99	20	
1-Methylnaphthalene (F)	3	0.0132	0.0131	0.0132	0.0133	0.0132	0.0128		LINR	-457.43	78.4104		0.0131	1.000	0.99	20	

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LINR=Linear regression

Instrument amount = a0 + response * a1 + response^2 * a2

295454249001

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Calibration Table

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NEW ICAL. 14 NOV 2005

HPLC04 METHOD 8310

Calib. Data Modified : 11/14/2005 4:07:02 PM

Calculate : External Standard
Based on : Peak Area

mas 11/15/05

Rel. Reference Window : 1.000 %
Abs. Reference Window : 0.200 min
Rel. Non-ref. Window : 1.000 %
Abs. Non-ref. Window : 0.250 min
Do not use Multiplier & Dilution Factor with ISTDs
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Signal 1: DAD1 A, Sig=254,4 Ref=480,80
Signal 2: DAD1 B, Sig=305,4 Ref=480,80
Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
4.798	1	1	500.00000	6.51225	76.77836			Naphthalene
		2	1000.00000	13.02439	76.77905			
		3	2500.00000	32.45070	77.03995			
		4	5000.00000	65.81794	75.96713			
		5	1.00000e4	130.82538	76.43777			
		6	2.50000e4	323.61371	77.25260			
		7	5.00000e4	648.90906	77.05240			
4.839	3	1	500.00000	5.89779	84.77755			Naphthalene
		2	1000.00000	11.75017	85.10517			
		3	2500.00000	29.52386	84.67727			
		4	5000.00000	59.72798	83.71286			
		5	1.00000e4	118.70710	84.24096			
		6	2.50000e4	292.13416	85.57712			
		7	5.00000e4	580.05115	86.19930			
6.052	1	1	1000.00000	9.19383	108.76859			Acenaphthylene
		2	2000.00000	18.17297	110.05354			
		3	5000.00000	46.41474	107.72440			
		4	1.00000e4	94.72365	105.57026			
		5	2.00000e4	187.69478	106.55597			
		6	5.00000e4	461.84637	108.26111			
		7	1.00000e5	913.74396	109.43985			
6.053	2	1	1000.00000	27.33126	36.58814			Acenaphthylene
		2	2000.00000	54.50918	36.69107			
		3	5000.00000	139.26938	35.90165			

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		4	1.00000e4	281.69171	35.49980			
		5	2.00000e4	559.80969	35.72643			
		6	5.00000e4	1386.26819	36.06806			
		7	1.00000e5	2790.07104	35.84138			
6.831	1	1	2000.00000	16.88634	118.43892			1-Methylnaphthalene (UV)
		2	4000.00000	33.87627	118.07677			
		3	1.00000e4	85.59682	116.82676			
		4	2.00000e4	172.90190	115.67253			
		5	4.00000e4	341.59979	117.09609			
		6	1.00000e5	839.73962	119.08453			
		7	2.00000e5	1681.10107	118.96965			
6.832	2	1	2000.00000	6.07634	329.14529			1-Methylnaphthalene (UV)
		2	4000.00000	12.02570	332.62101			
		3	1.00000e4	30.92526	323.36029			
		4	2.00000e4	62.05173	322.31170			
		5	4.00000e4	122.53880	326.42721			
		6	1.00000e5	302.71973	330.33856			
		7	2.00000e5	608.23541	328.82005			
6.872	3	1	2000.00000	26.32489	75.97373			1-Methylnaphthalene (F)
		2	4000.00000	52.31355	76.46202			
		3	1.00000e4	131.50134	76.04485			
		4	2.00000e4	266.55655	75.03098			
		5	4.00000e4	526.67639	75.94796			
		6	1.00000e5	1276.22900	78.35584			
7.280	1	1	500.00000	5.56723	89.81128			2-Methylnaphthalene
		2	1000.00000	11.21599	89.15845			
		3	2500.00000	28.88600	86.54713			
		4	5000.00000	58.62328	85.29035			
		5	1.00000e4	116.21339	86.04861			
		6	2.50000e4	286.22339	87.34436			
7.335	3	1	500.00000	7.99274	62.55677			2-Methylnaphthalene
		2	1000.00000	15.91236	62.84423			
		3	2500.00000	40.03383	62.44718			
		4	5000.00000	81.15388	61.61135			
		5	1.00000e4	161.03452	62.09849			
		6	2.50000e4	395.10352	63.27456			
7.672	1	1	500.00000	2.42577	206.12028			Acenaphthene
		2	1000.00000	4.86201	205.67637			
		3	2500.00000	12.71169	196.66929			
		4	5000.00000	25.83322	193.54924			
		5	1.00000e4	51.07816	195.77838			
		6	2.50000e4	125.66128	198.94752			
		7	5.00000e4	249.59686	200.32303			
7.712	3	1	500.00000	12.09695	41.33272			Acenaphthene
		2	1000.00000	24.11610	41.46607			
		3	2500.00000	60.52220	41.30716			
		4	5000.00000	122.93717	40.67118			
		5	1.00000e4	243.99982	40.98364			
		6	2.50000e4	597.90503	41.81266			
8.199	1	1	100.00000	6.23287	16.04397			Fluorene
		2	200.00000	12.36933	16.16903			
		3	500.00000	31.54358	15.85108			
		4	1000.00000	63.90393	15.64849			
		5	2000.00000	126.50168	15.81007			
		6	5000.00000	313.40030	15.95404			
		7	1.00000e4	629.23938	15.89220			
8.239	3	1	100.00000	13.29075	7.52403			Fluorene
		2	200.00000	26.56478	7.52876			
		3	500.00000	66.85545	7.47882			
		4	1000.00000	134.87556	7.41424			
		5	2000.00000	266.58530	7.50229			
		6	5000.00000	651.29639	7.67700			
9.318	1	1	50.00000	9.00343	5.55344			Phenanthrene

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	100.00000	17.66359	5.66136			
		3	250.00000	45.08168	5.54549			
		4	500.00000	91.29965	5.47647			
		5	1000.00000	180.14212	5.55117			
		6	2500.00000	446.01529	5.60519			
		7	5000.00000	897.40991	5.57159			
9.358	3	1	50.00000	7.01743	7.12511			Phenanthrene
		2	100.00000	14.14166	7.07130			
		3	250.00000	35.38944	7.06425			
		4	500.00000	71.59289	6.98393			
		5	1000.00000	141.86461	7.04897			
		6	2500.00000	346.48584	7.21530			
		7	5000.00000	693.25409	7.21236			
10.346	1	1	50.00000	20.15521	2.48075			Anthracene
		2	100.00000	40.32065	2.48012			
		3	250.00000	101.99684	2.45106			
		4	500.00000	206.70654	2.41889			
		5	1000.00000	408.35837	2.44883			
		6	2500.00000	1010.66217	2.47363			
		7	5000.00000	2024.80078	2.46938			
10.386	3	1	50.00000	20.52480	2.43608			Anthracene
		2	100.00000	40.89180	2.44548			
		3	250.00000	103.54391	2.41443			
		4	500.00000	210.14381	2.37932			
		5	1000.00000	414.05106	2.41516			
		6	2500.00000	1026.49353	2.43548			
		7	5000.00000	2059.37134	2.42793			
11.504	1	1	100.00000	4.05160	24.68162			Fluoranthene
		2	200.00000	8.01856	24.94213			
		3	500.00000	20.35011	24.56989			
		4	1000.00000	41.57235	24.05445			
		5	2000.00000	82.13621	24.34980			
		6	5000.00000	203.73349	24.54187			
		7	1.00000e4	411.60339	24.29523			
11.543	3	1	100.00000	4.08160	24.50019			Fluoranthene
		2	200.00000	8.04222	24.86875			
		3	500.00000	20.46036	24.43750			
		4	1000.00000	41.54289	24.07151			
		5	2000.00000	82.12543	24.35299			
		6	5000.00000	203.17122	24.60978			
		7	1.00000e4	408.57028	24.47559			
12.274	1	1	50.00000	1.62059	30.85291			Pyrene
		2	100.00000	3.19098	31.33834			
		3	250.00000	8.29422	30.14147			
		4	500.00000	16.68730	29.96290			
		5	1000.00000	32.97289	30.32795			
		6	2500.00000	82.77225	30.20336			
		7	5000.00000	168.06082	29.75113			
12.313	3	1	50.00000	6.78313	7.37123			Pyrene
		2	100.00000	13.19262	7.58000			
		3	250.00000	33.54156	7.45344			
		4	500.00000	68.45862	7.30368			
		5	1000.00000	134.23868	7.44942			
		6	2500.00000	328.05682	7.62063			
		7	5000.00000	665.85370	7.50916			
15.125	1	1	50.00000	4.23180	11.81530			Benzo(a)anthracene
		2	100.00000	9.04188	11.05964			
		3	250.00000	22.65013	11.03746			
		4	500.00000	45.84408	10.90653			
		5	1000.00000	91.03773	10.98446			
		6	2500.00000	225.67519	11.07787			
		7	5000.00000	459.00107	10.89322			
15.164	3	1	50.00000	7.53349	6.63703			Benzo(a)anthracene

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	100.00000	14.92142	6.70177			
		3	250.00000	38.11910	6.55839			
		4	500.00000	77.56648	6.44608			
		5	1000.00000	152.59743	6.55319			
		6	2500.00000	376.53439	6.63950			
		7	5000.00000	759.30841	6.58494			
15.624	1	1	50.00000	6.49550	7.69764			Chrysene
		2	100.00000	12.97757	7.70560			
		3	250.00000	32.97633	7.58119			
		4	500.00000	67.56745	7.40001			
		5	1000.00000	133.20935	7.50698			
		6	2500.00000	330.15082	7.57230			
		7	5000.00000	667.71228	7.48826			
15.664	3	1	50.00000	9.15220	5.46317			Chrysene
		2	100.00000	18.25678	5.47742			
		3	250.00000	46.59403	5.36549			
		4	500.00000	94.90897	5.26821			
		5	1000.00000	187.15659	5.34312			
		6	2500.00000	460.78613	5.42551			
		7	5000.00000	922.53937	5.41982			
17.842	1	1	100.00000	9.89154	10.10965			Benzo(b)fluoranthene
		2	200.00000	20.49215	9.75983			
		3	500.00000	52.71000	9.48587			
		4	1000.00000	107.62183	9.29180			
		5	2000.00000	213.82385	9.35349			
		6	5000.00000	529.55377	9.44191			
		7	1.00000e4	1067.59534	9.36684			
17.883	3	1	100.00000	6.61389	15.11970			Benzo(b)fluoranthene
		2	200.00000	13.10739	15.25857			
		3	500.00000	33.56808	14.89510			
		4	1000.00000	68.05548	14.69389			
		5	2000.00000	134.33257	14.88842			
		6	5000.00000	331.92670	15.06357			
		7	1.00000e4	669.70776	14.93189			
18.796	1	1	50.00000	4.03241	12.39953			Benzo(k)fluoranthene
		2	100.00000	7.57503	13.20127			
		3	250.00000	19.62153	12.74110			
		4	500.00000	40.20050	12.43765			
		5	1000.00000	80.29658	12.45383			
		6	2500.00000	200.76387	12.45244			
		7	5000.00000	406.82126	12.29041			
18.837	3	1	50.00000	19.52037	2.56143			Benzo(k)fluoranthene
		2	100.00000	38.80871	2.57674			
		3	250.00000	99.01035	2.52499			
		4	500.00000	200.72287	2.49100			
		5	1000.00000	397.35812	2.51662			
		6	2500.00000	980.66785	2.54928			
		7	5000.00000	1952.04028	2.56142			
19.734	1	1	50.00000	3.90437	12.80616			Benzo(a)pyrene
		2	100.00000	8.12252	12.31145			
		3	250.00000	21.05889	11.87147			
		4	500.00000	43.33799	11.53722			
		5	1000.00000	86.29072	11.58873			
		6	2500.00000	215.14328	11.62016			
		7	5000.00000	435.20081	11.48895			
19.774	3	1	50.00000	10.62241	4.70703			Benzo(a)pyrene
		2	100.00000	21.12371	4.73402			
		3	250.00000	54.04917	4.62542			
		4	500.00000	109.65622	4.55970			
		5	1000.00000	216.76112	4.61337			
		6	2500.00000	534.25336	4.67943			
		7	5000.00000	1071.43713	4.66663			
21.335	1	1	100.00000	1.74457	57.32080			Dibenz(a,h)anthracene

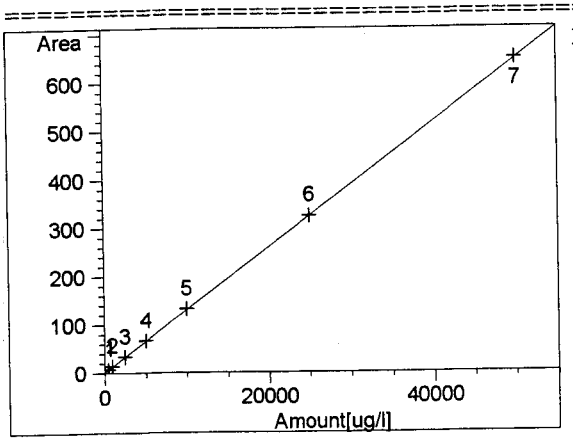
Method G:\HPLC4\METHODS\8310-315.M

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	200.00000	4.18672	47.77004			
		3	500.00000	10.15091	49.25669			
		4	1000.00000	20.86957	47.91665			
		5	2000.00000	42.28377	47.29947			
		6	5000.00000	106.57118	46.91700			
		7	1.00000e4	215.69028	46.36278			
21.376	3	1	100.00000	2.98045	33.55199			Dibenz(a,h)anthracene
		2	200.00000	5.97678	33.46283			
		3	500.00000	15.56407	32.12527			
		4	1000.00000	31.90387	31.34416			
		5	2000.00000	63.43048	31.53058			
		6	5000.00000	158.05646	31.63427			
		7	1.00000e4	319.90201	31.25957			
22.099	1	1	100.00000	3.32142	30.10762			Benzo(g,h,i)perylene
		2	200.00000	6.91262	28.93260			
		3	500.00000	17.35672	28.80728			
		4	1000.00000	35.38666	28.25924			
		5	2000.00000	70.51058	28.36454			
		6	5000.00000	176.29678	28.36127			
		7	1.00000e4	357.48672	27.97307			
22.140	3	1	100.00000	6.17302	16.19953			Benzo(g,h,i)perylene
		2	200.00000	12.25580	16.31880			
		3	500.00000	31.30061	15.97413			
		4	1000.00000	64.07645	15.60636			
		5	2000.00000	127.25459	15.71653			
		6	5000.00000	316.47900	15.79884			
		7	1.00000e4	638.82190	15.65382			
22.620	1	1	50.00000	4.21460	11.86352			Indeno(1,2,3-cd)pyrene
		2	100.00000	8.38093	11.93185			
		3	250.00000	22.88771	10.92289			
		4	500.00000	47.41936	10.54422			
		5	1000.00000	94.73141	10.55616			
		6	2500.00000	236.57013	10.56769			
		7	5000.00000	476.41440	10.49506			
22.661	3	1	50.00000	4.64120	10.77307			Indeno(1,2,3-cd)pyrene
		2	100.00000	9.29544	10.75796			
		3	250.00000	23.65410	10.56899			
		4	500.00000	48.39191	10.33231			
		5	1000.00000	96.65224	10.34637			
		6	2500.00000	240.76752	10.38346			
		7	5000.00000	486.34088	10.28085			

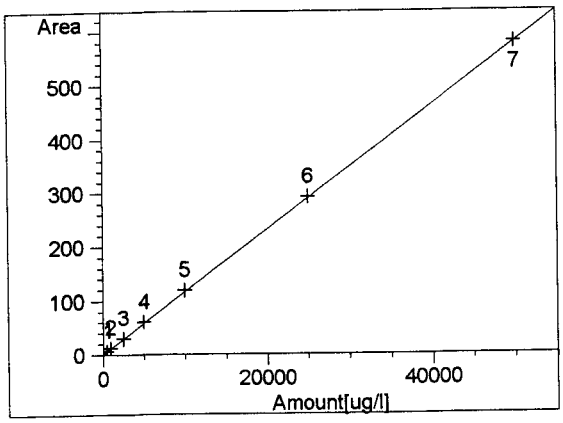
Peak Sum Table

No Entries in table

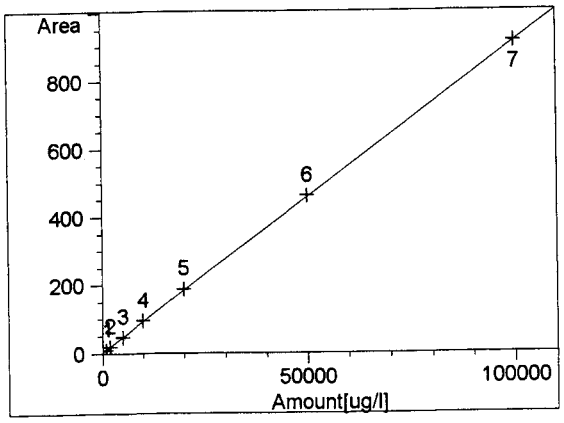
Calibration Curves



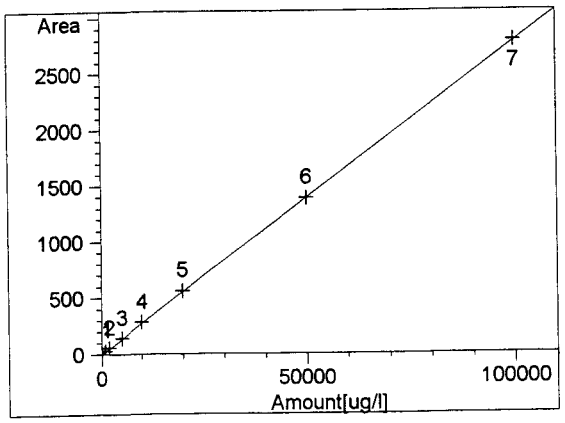
Naphthalene at exp. RT: 4.798
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.66440
Formula: y = mx + b
m: 1.29671e-2
b: 3.20474e-1
x: Amount[ug/l]
y: Area



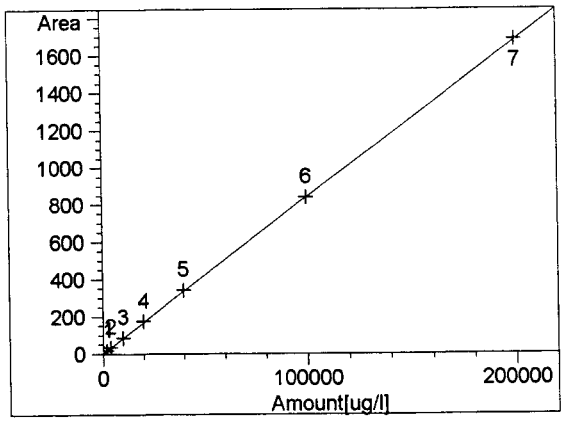
Naphthalene at exp. RT: 4.839
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.21267
Formula: y = mx + b
m: 1.15969e-2
b: 1.09732
x: Amount[ug/l]
y: Area



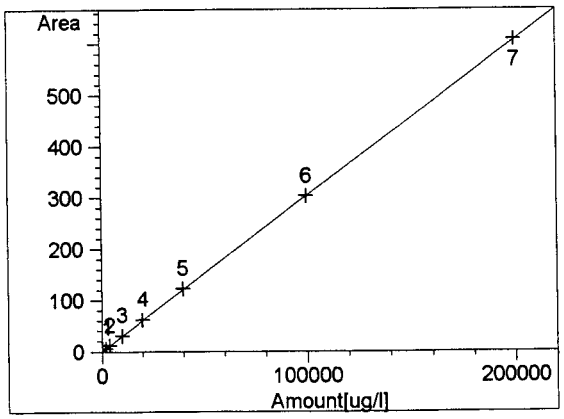
Acenaphthylene at exp. RT: 6.052
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 2.57482
Formula: y = mx + b
m: 9.13868e-3
b: 1.95971
x: Amount[ug/l]
y: Area



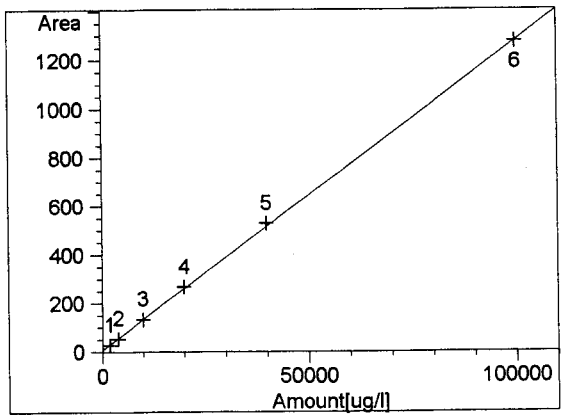
Acenaphthylene at exp. RT: 6.053
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 3.95166
Formula: y = mx + b
m: 2.78746e-2
b: -2.10217e-1
x: Amount[ug/l]
y: Area



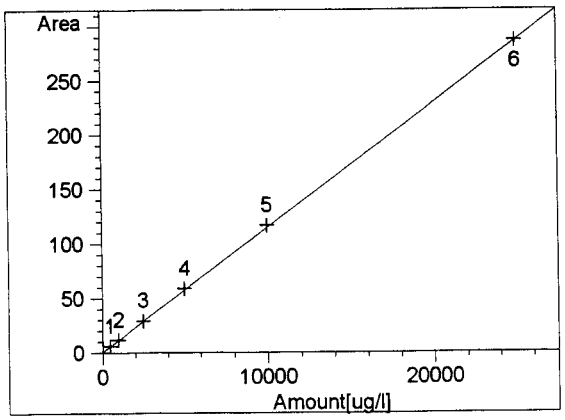
1-Methylnaphthalene (UV) at exp. RT: 6.831
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 2.56891
Formula: y = mx + b
m: 8.39433e-3
b: 2.20489
x: Amount[ug/l]
y: Area



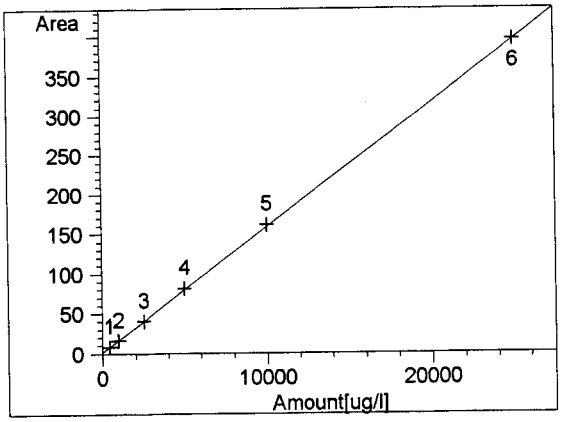
1-Methylnaphthalene (UV) at exp. RT: 6.832
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.87319
Formula: y = mx + b
m: 3.03699e-3
b: 3.80514e-1
x: Amount[ug/l]
y: Area



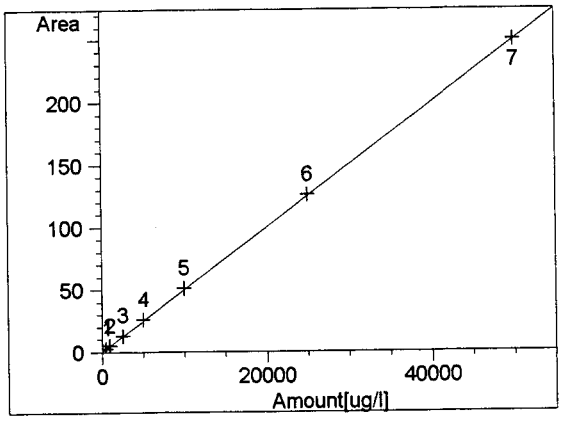
1-Methylnaphthalene (F) at exp. RT: 6.872
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99990
Residual Std. Dev.: 7.42050
Formula: y = mx + b
m: 1.27534e-2
b: 5.83375
x: Amount[ug/l]
y: Area



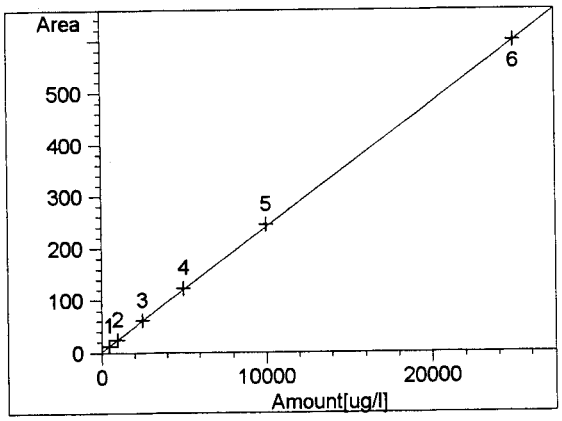
2-Methylnaphthalene at exp. RT: 7.280
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 0.93927
Formula: y = mx + b
m: 1.14550e-2
b: 4.51222e-1
x: Amount[ug/l]
y: Area



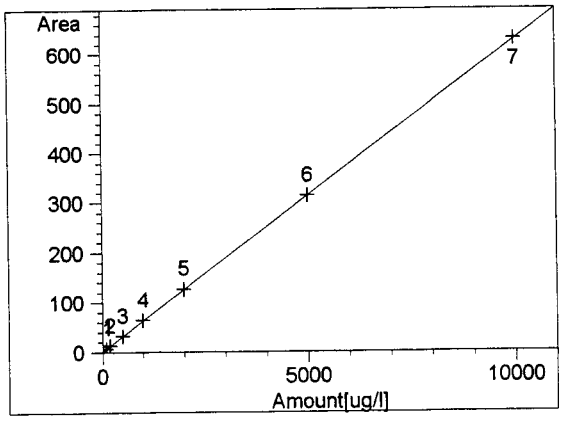
2-Methylnaphthalene at exp. RT: 7.335
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 1.42306
Formula: y = mx + b
m: 1.58022e-2
b: 9.88789e-1
x: Amount[ug/l]
y: Area



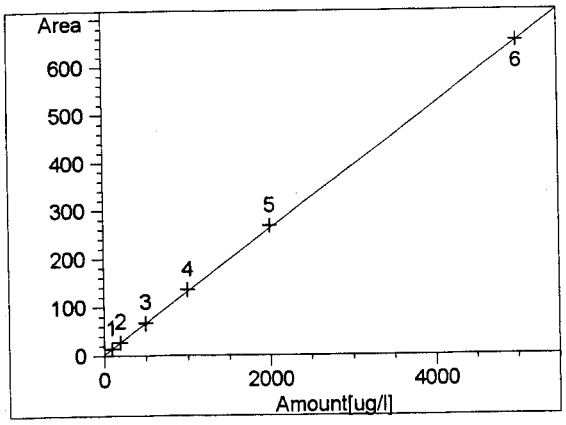
Acenaphthene at exp. RT: 7.672
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.58330
Formula: y = mx + b
m: 4.99125e-3
b: 4.27298e-1
x: Amount[ug/l]
y: Area



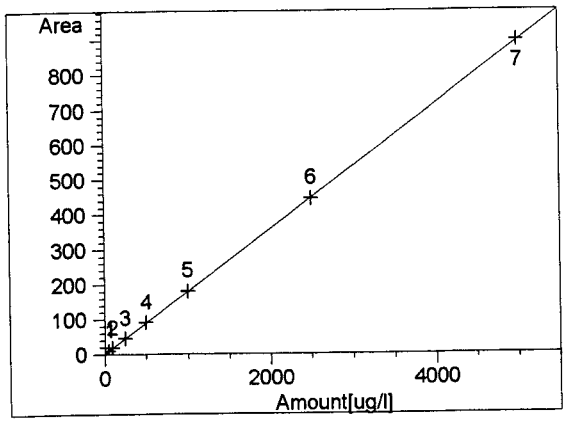
Acenaphthene at exp. RT: 7.712
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 2.28893
Formula: y = mx + b
m: 2.39146e-2
b: 1.55557
x: Amount[ug/l]
y: Area



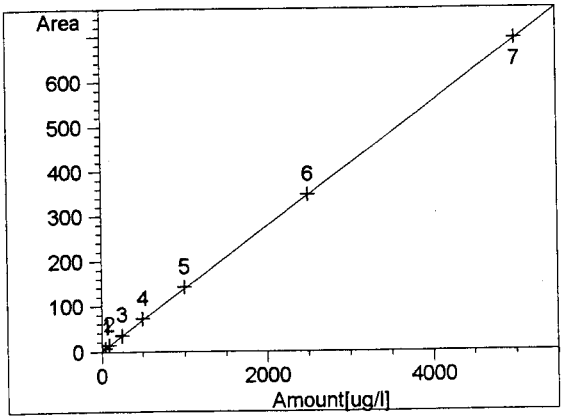
Fluorene at exp. RT: 8.199
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.73220
Formula: y = mx + b
m: 6.28687e-2
b: 1.80023e-1
x: Amount[ug/l]
y: Area



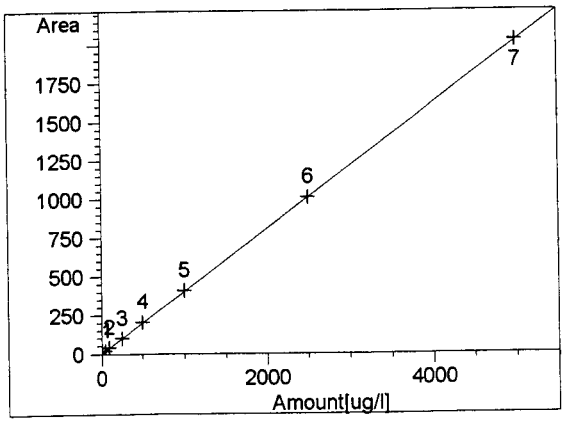
Fluorene at exp. RT: 8.239
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99995
Residual Std. Dev.: 2.84162
Formula: y = mx + b
m: 1.30167e-1
b: 2.33256
x: Amount[ug/l]
y: Area



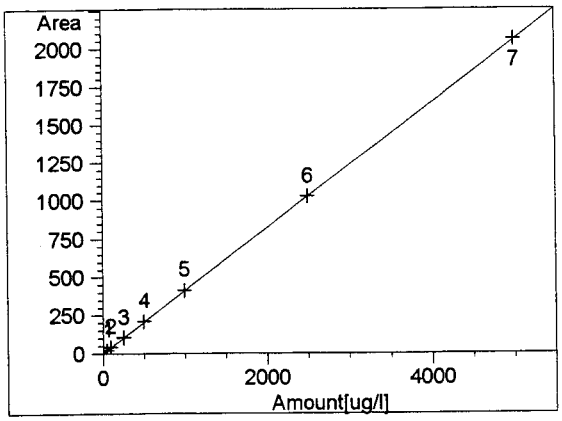
Phenanthrene at exp. RT: 9.318
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 1.35222
Formula: y = mx + b
m: 1.79253e-1
b: 2.33836e-1
x: Amount[ug/l]
y: Area



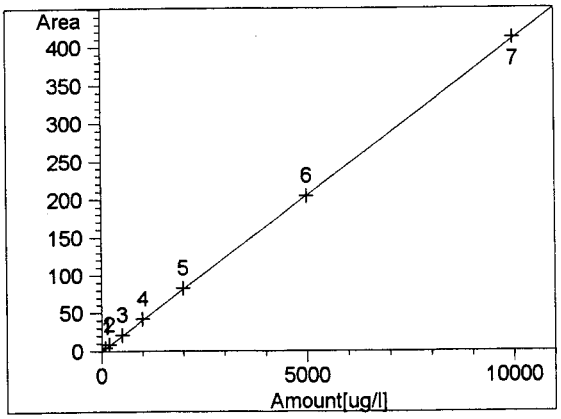
Phenanthrene at exp. RT: 9.358
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.35775
Formula: y = mx + b
m: 1.38429e-1
b: 1.21609
x: Amount[ug/l]
y: Area



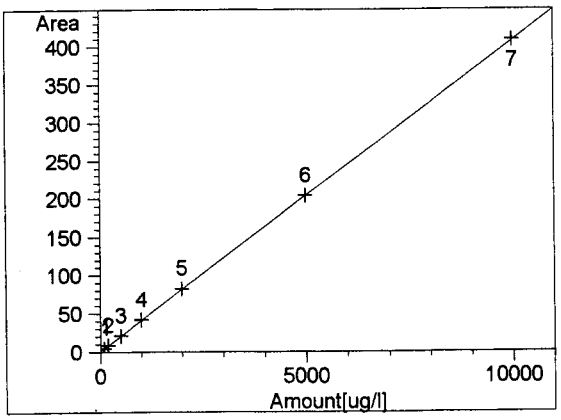
Anthracene at exp. RT: 10.346
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 2.21901
Formula: y = mx + b
m: 4.04598e-1
b: 1.39720
x: Amount[ug/l]
y: Area



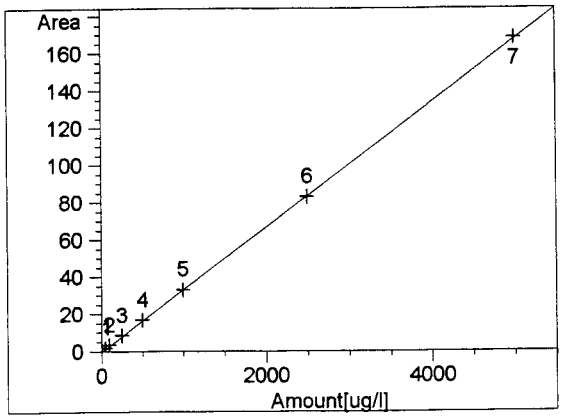
Anthracene at exp. RT: 10.386
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 2.36890
Formula: y = mx + b
m: 4.11465e-1
b: 1.03508
x: Amount[ug/l]
y: Area



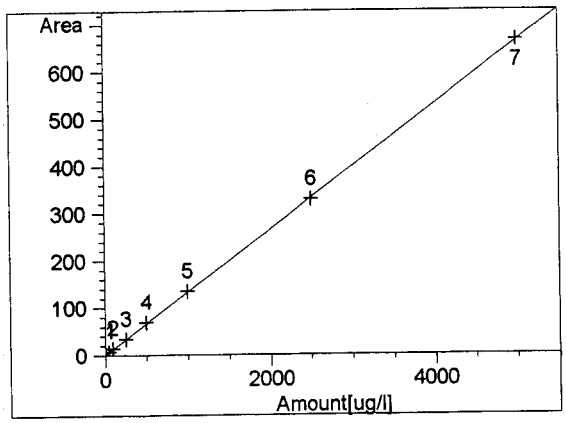
Fluoranthene at exp. RT: 11.504
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.84613
Formula: y = mx + b
m: 4.11083e-2
b: -1.95725e-1
x: Amount[ug/l]
y: Area



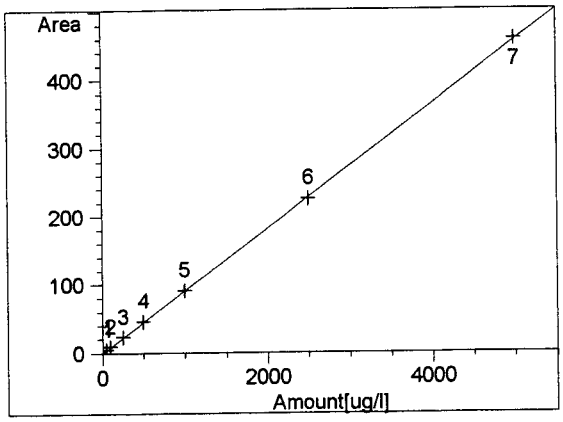
Fluoranthene at exp. RT: 11.543
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.58645
Formula: y = mx + b
m: 4.08100e-2
b: 1.09457e-1
x: Amount[ug/l]
y: Area



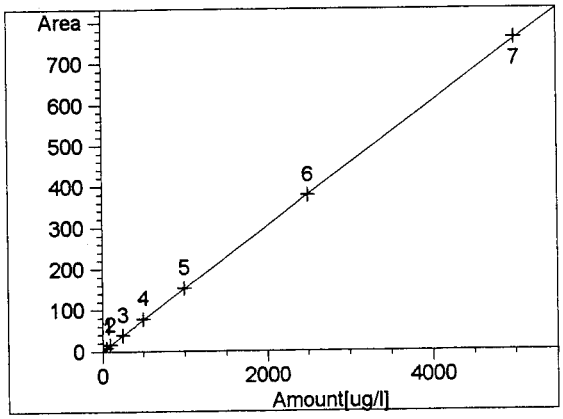
Pyrene at exp. RT: 12.274
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 0.49621
Formula: y = mx + b
m: 3.35757e-2
b: -2.87441e-1
x: Amount[ug/l]
y: Area



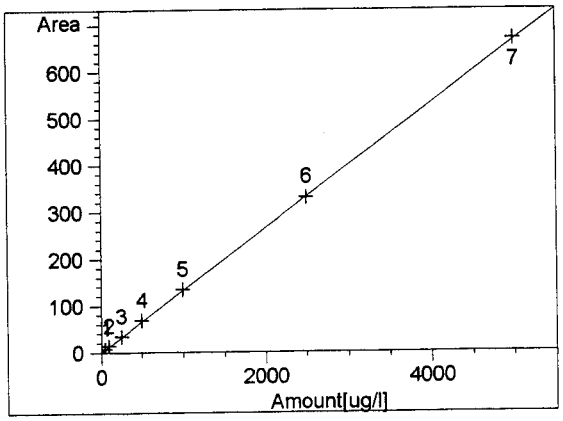
Pyrene at exp. RT: 12.313
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 2.23433
Formula: y = mx + b
m: 1.32777e-1
b: 2.88948e-1
x: Amount[ug/l]
y: Area



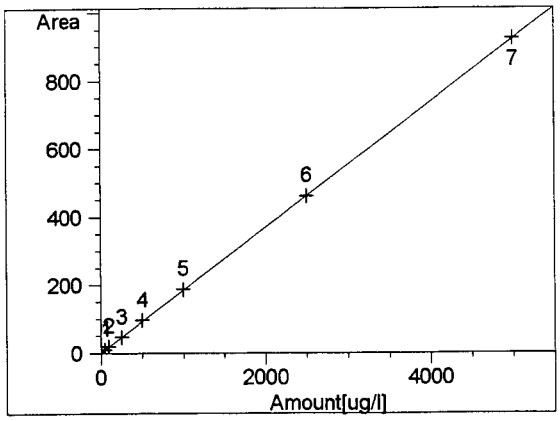
Benzo(a)anthracene at exp. RT: 15.125
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 1.46481
Formula: y = mx + b
m: 9.16421e-2
b: -5.64799e-1
x: Amount[ug/l]
y: Area



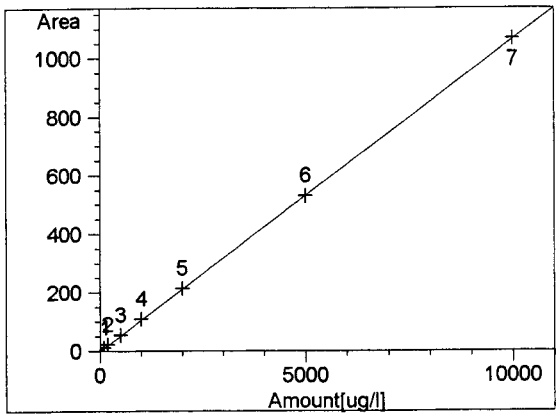
Benzo(a)anthracene at exp. RT: 15.164
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.52788
Formula: y = mx + b
m: 1.51611e-1
b: 2.05410e-1
x: Amount[ug/l]
y: Area



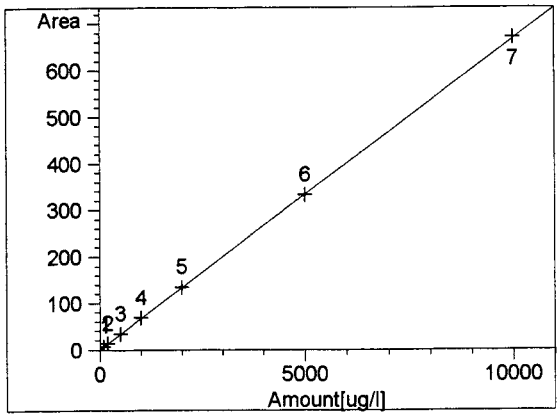
Chrysene at exp. RT: 15.624
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 1.52322
Formula: y = mx + b
m: 1.33357e-1
b: -3.52762e-1
x: Amount[ug/l]
y: Area



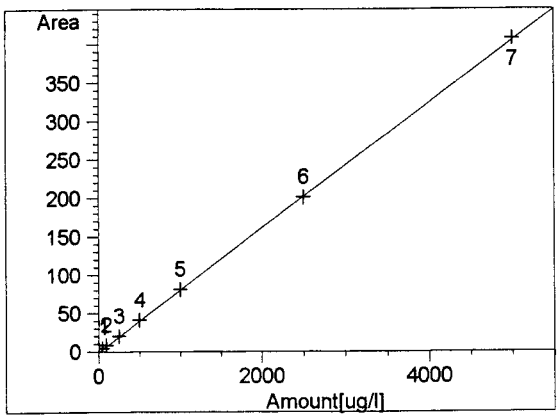
Chrysene at exp. RT: 15.664
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.42864
Formula: y = mx + b
m: 1.84313e-1
b: 9.78301e-1
x: Amount[ug/l]
y: Area



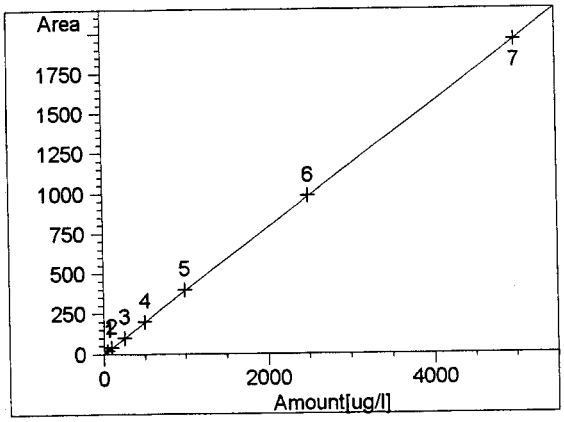
Benzo(b)fluoranthene at exp. RT: 17.842
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 1.79272
Formula: y = mx + b
m: 1.06686e-1
b: -5.73080e-1
x: Amount[ug/l]
y: Area



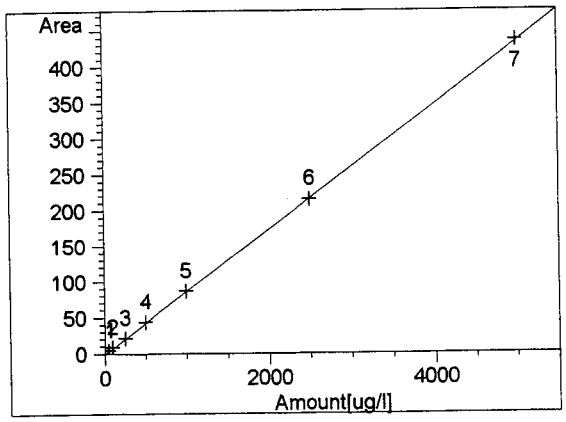
Benzo(b)fluoranthene at exp. RT: 17.883
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.32175
Formula: y = mx + b
m: 6.68690e-2
b: 2.49898e-2
x: Amount[ug/l]
y: Area



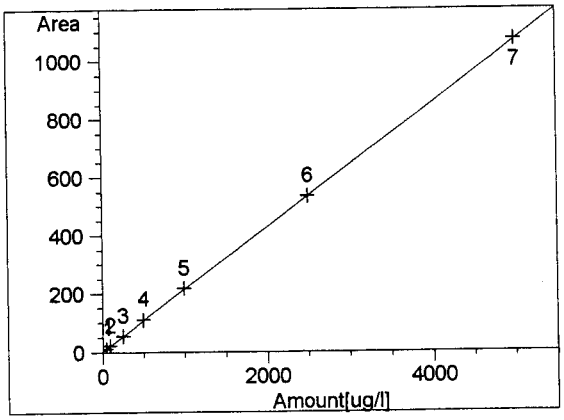
Benzo(k)fluoranthene at exp. RT: 18.796
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.98396
Formula: y = mx + b
m: 8.13261e-2
b: -7.36369e-1
x: Amount[ug/l]
y: Area



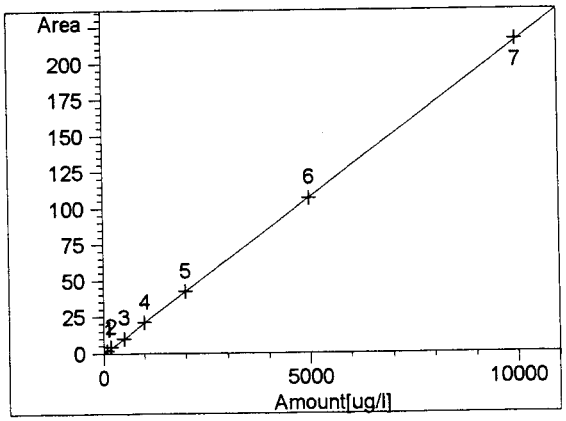
Benzo(k)fluoranthene at exp. RT: 18.837
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 3.29157
Formula: y = mx + b
m: 3.90262e-1
b: 2.80891
x: Amount[ug/l]
y: Area



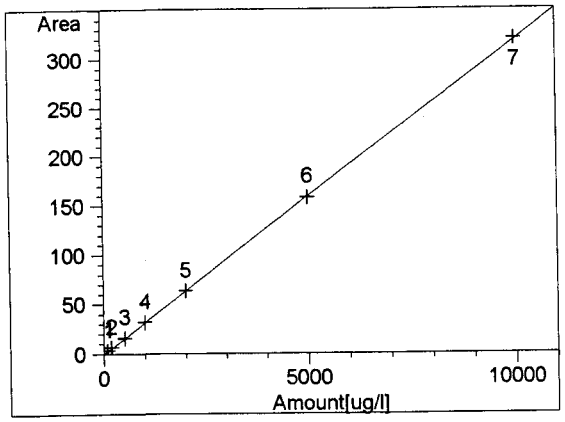
Benzo(a)pyrene at exp. RT: 19.734
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.88457
Formula: y = mx + b
m: 8.70219e-2
b: -7.06704e-1
x: Amount[ug/l]
y: Area



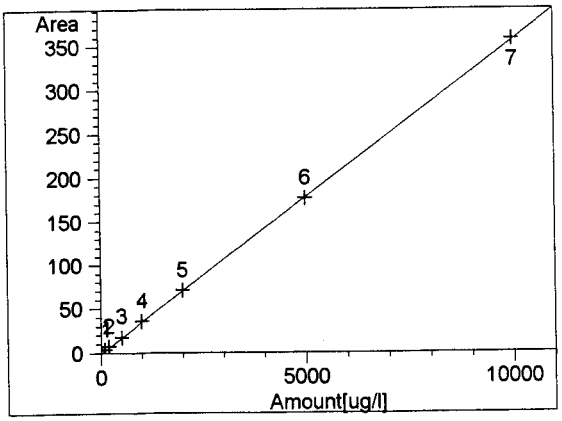
Benzo(a)pyrene at exp. RT: 19.774
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.54630
Formula: y = mx + b
m: 2.14053e-1
b: 8.29784e-1
x: Amount[ug/l]
y: Area



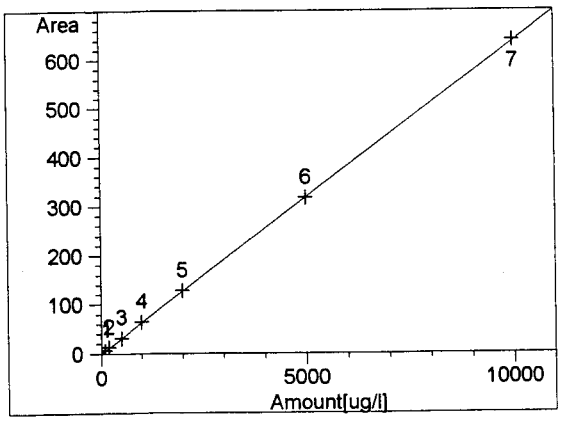
Dibenz(a,h)anthracene at exp. RT: 21.335
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.47152
Formula: y = mx + b
m: 2.15889e-2
b: -6.24820e-1
x: Amount[ug/l]
y: Area



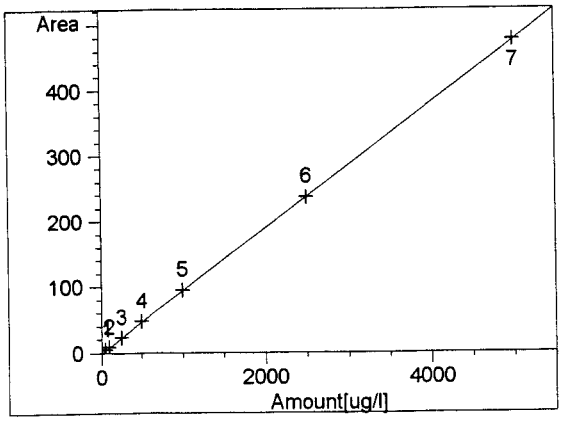
Dibenz(a,h)anthracene at exp. RT: 21.376
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.69795
Formula: y = mx + b
m: 3.19738e-2
b: -4.70523e-1
x: Amount[ug/l]
y: Area



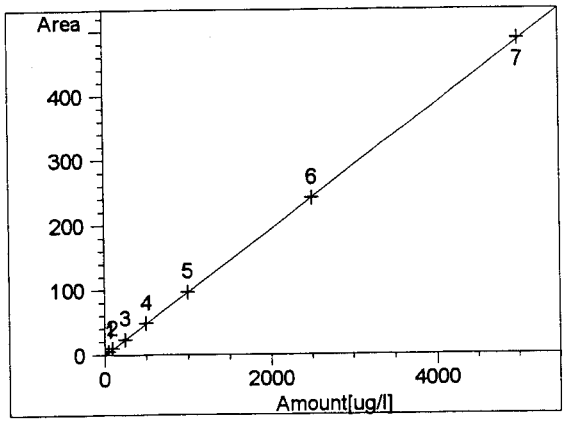
Benzo(g,h,i)perylene at exp. RT: 22.099
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.90912
Formula: y = mx + b
m: 3.57236e-2
b: -6.18946e-1
x: Amount[ug/l]
y: Area



Benzo(g,h,i)perylene at exp. RT: 22.140
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.13249
Formula: y = mx + b
m: 6.38382e-2
b: -5.42335e-1
x: Amount[ug/l]
y: Area



Indeno(1,2,3-cd)pyrene at exp. RT: 22.620
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.59301
Formula: y = mx + b
m: 9.53650e-2
b: -8.30323e-1
x: Amount[ug/l]
y: Area



Indeno(1,2,3-cd)pyrene at exp. RT: 22.661
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.87865
Formula: y = mx + b
m: 9.72272e-2
b: -5.98930e-1
x: Amount[ug/l]
y: Area

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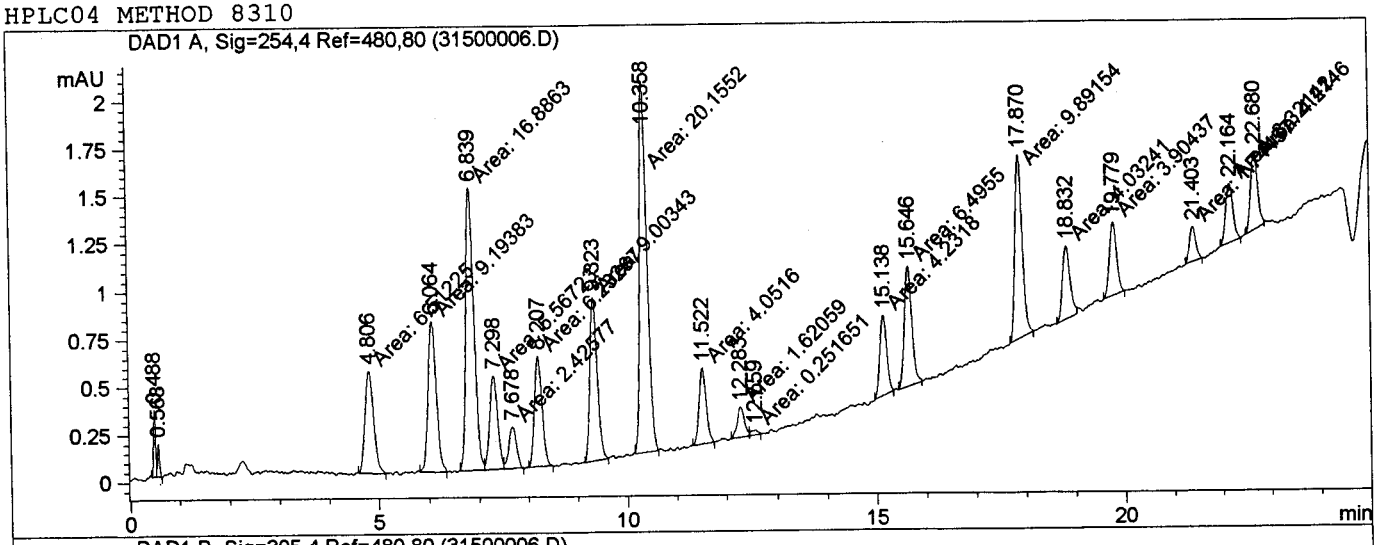
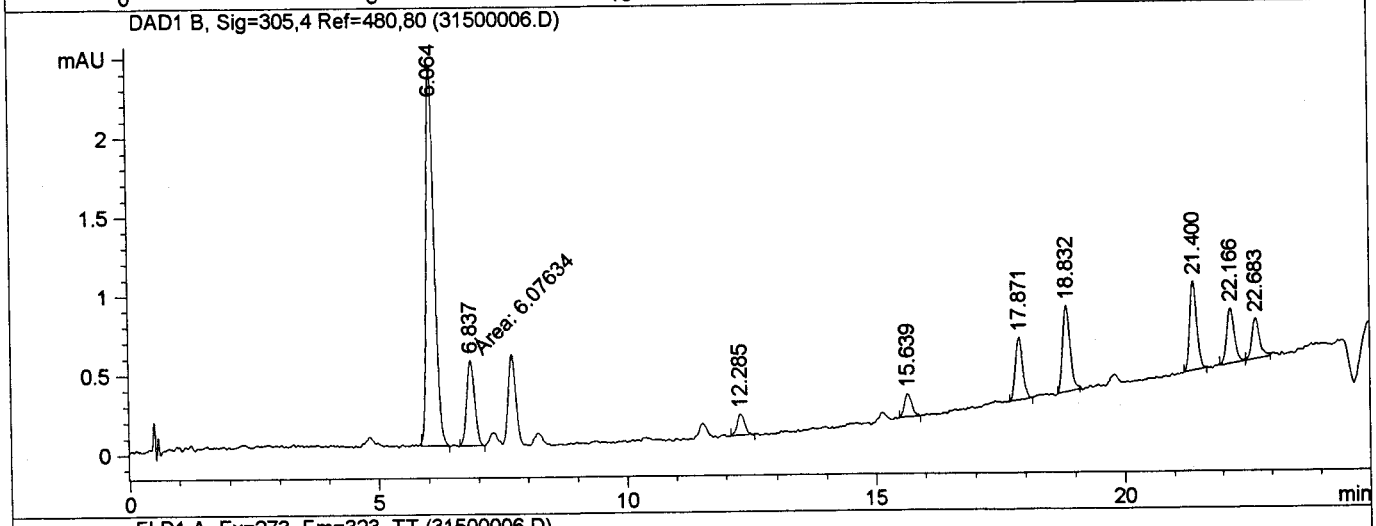
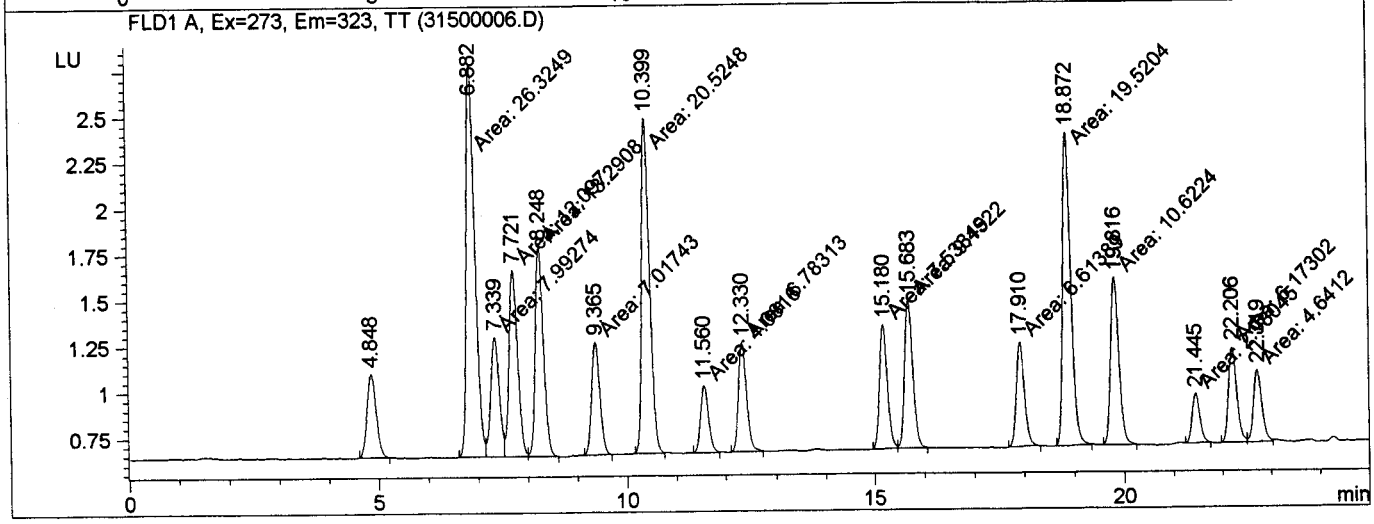
Injection Date	: 11/11/2005 1:27:15 PM	Seq. Line :	6
Sample Name	: ICAL,S1620	Location :	Vial 6
Acq. Operator	: HPL	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		

HPLC04 METHOD 8310







JM 14 NOV 2005

External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.806	MM	6.51225	56.86105	370.29343		Naphthalene
6.064	MM	9.19383	58.19914	535.07300		Acenaphthylene
6.839	MF	16.88634	73.04479	1233.45919		1-Methylnaphthalene (UV)
7.298	MF	5.56723	57.99403	322.86608		2-Methylnaphthalene
7.678	FM	2.42577	147.05712	356.72647		Acenaphthene
8.207	MM	6.23287	12.11196	75.49227		Fluorene
9.323	MM	9.00343	2.76923	24.93256		Phenanthrene
10.358	MM	20.15521	1.91776	38.65276		Anthracene
11.522	MM	4.05160	19.76988	80.09961		Fluoranthene
12.283	MF	1.62059	35.10247	56.88681		Pyrene
15.138	MM	4.23180	10.93045	46.25550		Benzo(a)anthracene
15.646	MM	6.49550	5.89676	38.30237		Chrysene
17.870	MM	9.89154	7.77704	76.92689		Benzo(b)fluoranthene
18.832	MF	4.03241	11.96373	48.24266		Benzo(k)fluoranthene
19.779	MM	3.90437	11.75763	45.90614		Benzo(a)pyrene
21.403	MM	1.74457	56.46976	98.51531		Dibenz(a,h)anthracene
22.164	MM	3.32142	28.03996	93.13242		Benzo(g,h,i)perylene
22.680	MM	4.21460	9.19393	38.74875		Indeno(1,2,3-cd)pyrene

Totals : 3580.51221

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.064	BP	27.33126	24.71319	675.44268		Acenaphthylene
6.837	MM	6.07634	213.49637	1297.27738		1-Methylnaphthalene (UV)

Totals : 1972.72006

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.848	BB	5.89779	49.41812	291.45757		Naphthalene
6.882	MF	26.32489	30.40977	800.53371		1-Methylnaphthalene (F)
7.339	MF	7.99274	39.37761	314.73504		2-Methylnaphthalene
7.721	MF	12.09695	29.44551	356.20097		Acenaphthene
8.248	FM	13.29075	4.05727	53.92417		Fluorene
9.365	MM	7.01743	3.35131	23.51756		Phenanthrene
10.399	MM	20.52480	1.63013	33.45802		Anthracene
11.560	MM	4.08160	20.52283	83.76600		Fluoranthene
12.330	MM	6.78313	7.86729	53.36481		Pyrene
15.180	MF	7.53349	5.17794	39.00797		Benzo(a)anthracene
15.683	FM	9.15220	2.67273	24.46138		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.910	MM	6.61389	10.62492	70.27206		Benzo(b)fluoranthene
18.872	MM	19.52037	1.78030	34.75221		Benzo(k)fluoranthene
19.816	MM	10.62241	3.35282	35.61502		Benzo(a)pyrene
21.445	MM	2.98045	33.40539	99.56307		Dibenz(a,h)anthracene
22.206	MF	6.17302	14.19328	87.61536		Benzo(g,h,i)perylene
22.719	MF	4.64120	9.78017	45.39175		Indeno(1,2,3-cd)pyrene

Totals : 2447.63667

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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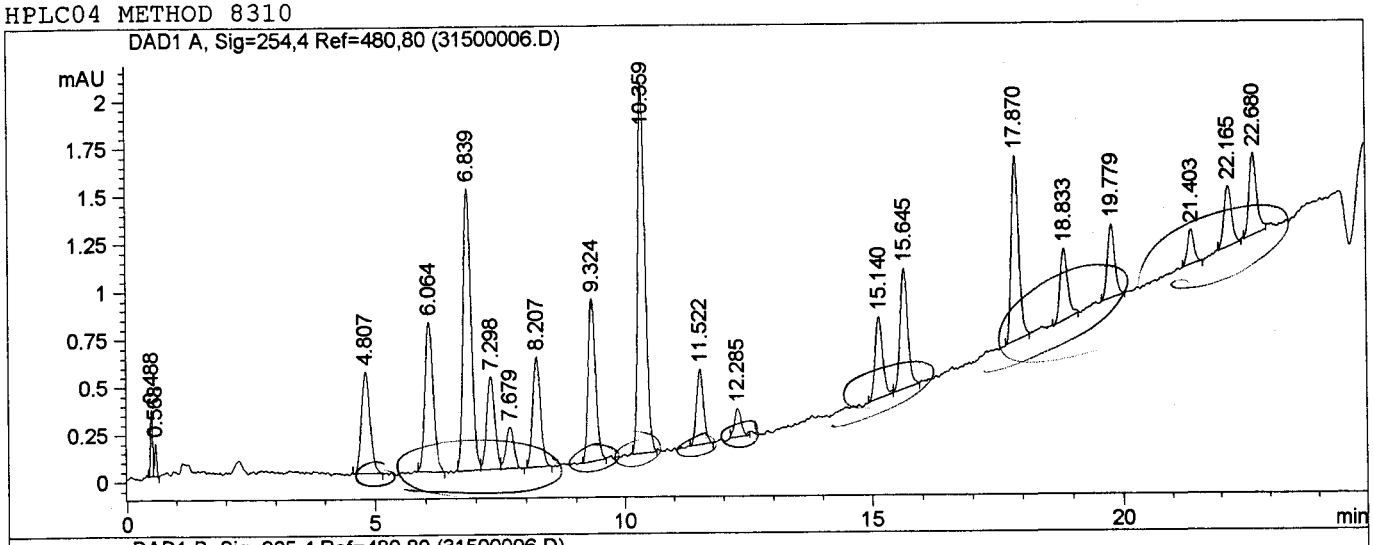
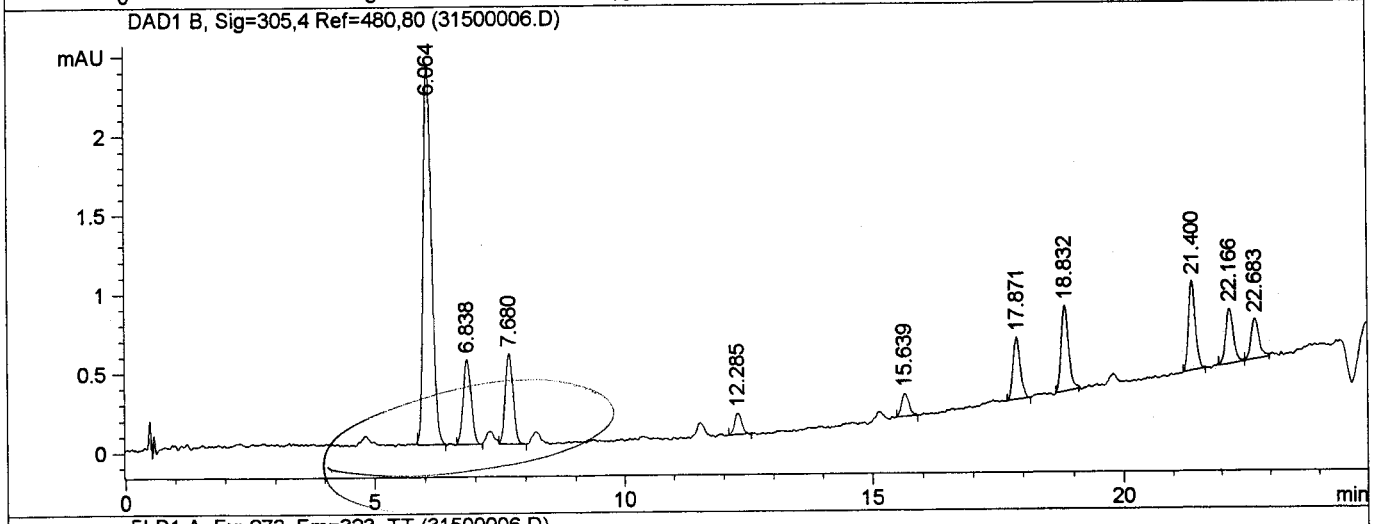
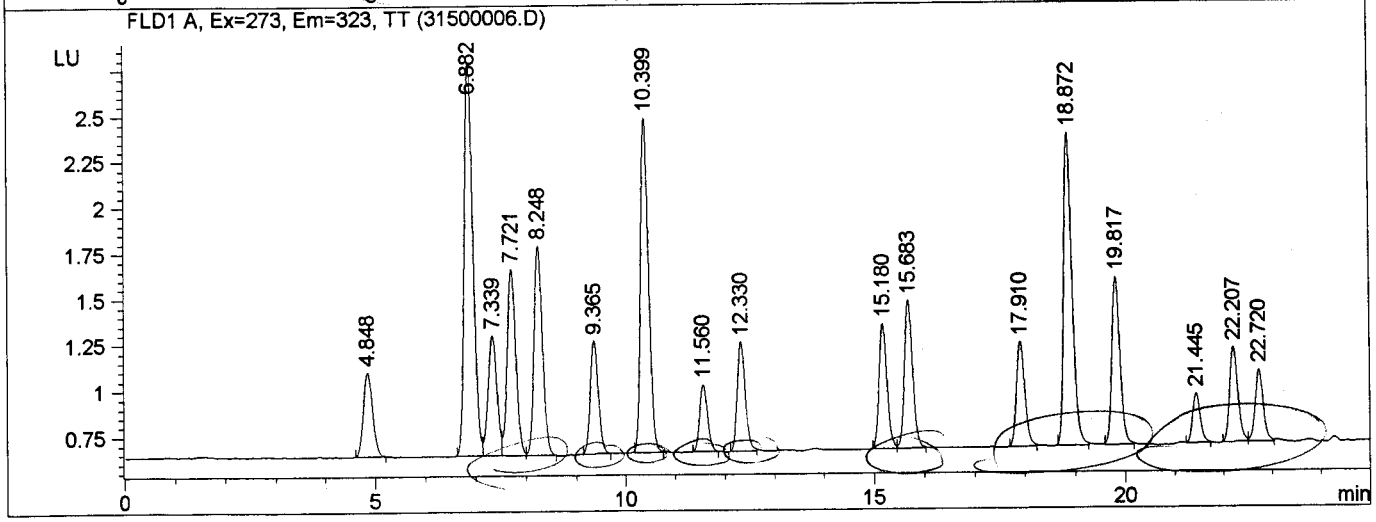
Injection Date	: 11/11/2005 1:27:15 PM	Seq. Line :	6
Sample Name	: ICAL,S1620	Location :	Vial 6
Acq. Operator	: HPL	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Sequence File	: G:\HPLC4\SEQUENCE\111105.S		
Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		

HPLC04 METHOD 8310







External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.807	BB	6.48843	56.79090	368.48387		Naphthalene
6.064	BP	9.08332	57.60331	523.22952		Acenaphthylene
6.839	BV	16.84054	72.92289	1228.06089		1-Methylnaphthalene (UV)
7.298	VV	5.53367	57.82593	319.98974		2-Methylnaphthalene
7.679	VP	2.37214	145.70353	345.62860		Acenaphthene
8.207	BP	6.18553	12.08387	74.74518		Fluorene
9.324	PB	9.00831	2.77079	24.96015		Phenanthrene
10.359	BB	20.20749	1.91976	38.79358		Anthracene
11.522	BP	3.99073	19.69836	78.61085		Fluoranthene
12.285	BB	1.55857	35.23862	54.92173		Pyrene
15.140	PB	4.45730	10.96271	48.86406		Benzo(a)anthracene
15.645	BB	6.62136	5.92577	39.23667		Chrysene
17.870	PB	9.93459	7.78333	77.32422		Benzo(b)fluoranthene
18.833	PB	4.02658	11.96323	48.17094		Benzo(k)fluoranthene
19.779	BB	3.97740	11.77272	46.82479		Benzo(a)pyrene
21.403	BP	1.79815	56.17209	101.00558		Dibenz(a,h)anthracene
22.165	BB	3.50165	28.13018	98.50199		Benzo(g,h,i)perylene
22.680	BB	4.68536	9.33797	43.75172		Indeno(1,2,3-cd)pyrene

Totals : 3561.10408

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.064	BP	27.33126	24.71319	675.44268		Acenaphthylene
6.838	BB	6.07096	213.39573	1295.51707		1-Methylnaphthalene (UV)

Totals : 1970.95975

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.848	BB	5.89779	49.41812	291.45757		Naphthalene
6.882	BV	26.27604	30.30604	796.32285		1-Methylnaphthalene (F)
7.339	VV	7.97189	39.30745	313.35471		2-Methylnaphthalene
7.721	VV	12.09099	29.43684	355.92065		Acenaphthene
8.248	VP	13.24561	4.04421	53.56798		Fluorene
9.365	BB	7.01924	3.35243	23.53151		Phenanthrene
10.399	BB	20.54425	1.63136	33.51512		Anthracene
11.560	BB	4.03565	20.46929	82.60681		Fluoranthene
12.330	BB	6.70945	7.86191	52.74905		Pyrene
15.180	BV	7.56173	5.18664	39.22003		Benzo(a)anthracene
15.683	VB	9.20633	2.69021	24.76698		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.910	BB	6.59814	10.61285	70.02508		Benzo(b)fluoranthene
18.872	BB	19.53803	1.78116	34.80030		Benzo(k)fluoranthene
19.817	BB	10.65707	3.35968	35.80430		Benzo(a)pyrene
21.445	BB	2.96583	33.41073	99.09071		Dibenz(a,h)anthracene
22.207	BV	6.13286	14.17284	86.92008		Benzo(g,h,i)perylene
22.720	VB	4.60901	9.77185	45.03854		Indeno(1,2,3-cd)pyrene

Totals : 2438.69226

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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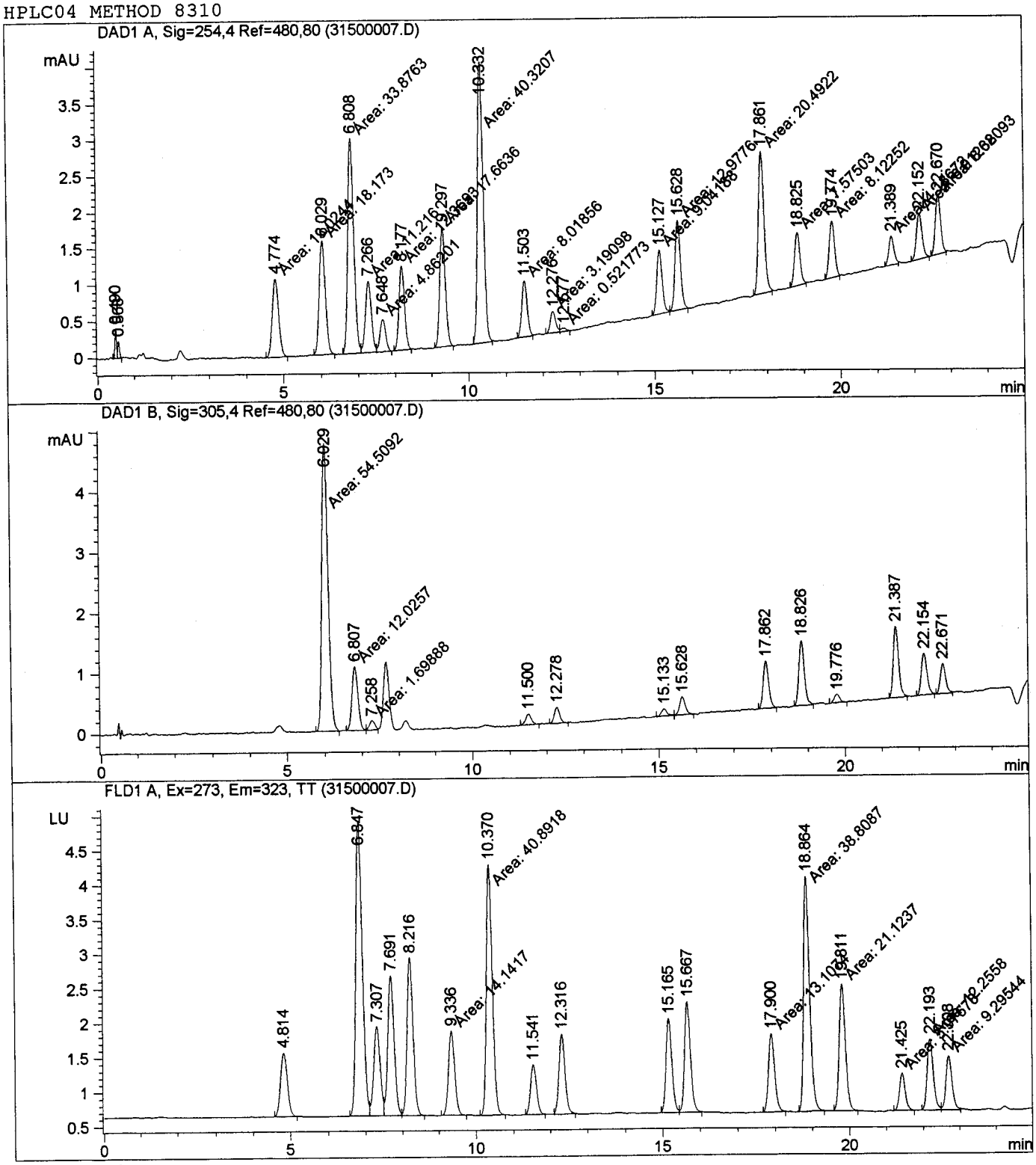
Injection Date	: 11/11/2005 1:58:51 PM	Seq. Line :	7
Sample Name	: ICAL,S1619	Location :	Vial 7
Acq. Operator	: HPL	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 11/14/2005 1:57:45 PM by HPL (modified after loading)		

HPLC04 METHOD 8310



JM 14 NOV 2005

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, November 14, 2005 1:57:34 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.774	MM	13.02439	66.99216	872.53169		Naphthalene
6.029	MM	18.17297	83.55352	1518.41598		Acenaphthylene
6.808	MF	33.87627	96.71765	3276.43283		1-Methylnaphthalene (UV)
7.266	FM	11.21599	73.32296	822.38937		2-Methylnaphthalene
7.648	FM	4.86201	178.86653	869.65035		Acenaphthene
8.177	MM	12.36933	14.06433	173.96632		Fluorene
9.297	MM	17.66359	4.22227	74.58050		Phenanthrene
10.332	MM	40.32065	2.29591	92.57274		Anthracene
11.503	MM	8.01856	22.16832	177.75807		Fluoranthene
12.276	MF	3.19098	32.73741	104.46441		Pyrene
15.127	MF	9.04188	11.28061	101.99799		Benzo(a)anthracene
15.628	FM	12.97757	6.69923	86.93967		Chrysene
17.861	MM	20.49215	8.60298	176.29366		Benzo(b)fluoranthene
18.825	MM	7.57503	12.17796	92.24839		Benzo(k)fluoranthene
19.774	MM	8.12252	12.03393	97.74582		Benzo(a)pyrene
21.389	MF	4.18672	51.13310	214.08023		Dibenz(a,h)anthracene
22.152	MM	6.91262	28.57869	197.55357		Benzo(g,h,i)perylene
22.670	MF	8.38093	10.03182	84.07599		Indeno(1,2,3-cd)pyrene

Totals : 9033.69759

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.029	MM	54.50918	30.31678	1652.54260		Acenaphthylene
6.807	MF	12.02570	272.17570	3273.10290		1-Methylnaphthalene (UV)

Totals : 4925.64550

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.814	BB	11.75017	70.01231	822.65631		Naphthalene
6.847	BV	52.31355	58.35180	3052.58985		1-Methylnaphthalene (F)
7.307	VV	15.91236	53.02456	843.74596		2-Methylnaphthalene
7.691	VV	24.11610	37.94756	915.14708		Acenaphthene
8.216	VB	26.56478	6.03100	160.21208		Fluorene
9.336	MF	14.14166	5.57014	78.77106		Phenanthrene
10.370	MF	40.89180	2.24842	91.94181		Anthracene
11.541	BB	8.04222	22.88283	184.02884		Fluoranthene
12.316	BB	13.19262	8.03945	106.06138		Pyrene
15.165	BV	14.92142	6.27323	93.60547		Benzo(a)anthracene
15.667	VB	18.25678	4.18510	76.40636		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.900	MM	13.10739	13.13570	172.17470		Benzo(b)fluoranthene
18.864	MM	38.80871	2.24549	87.14466		Benzo(k)fluoranthene
19.811	MM	21.12371	4.28178	90.44708		Benzo(a)pyrene
21.425	MM	5.97678	32.79226	195.99214		Dibenz(a,h)anthracene
22.193	MF	12.25580	15.52988	190.33112		Benzo(g,h,i)perylene
22.708	MF	9.29544	10.32540	95.97914		Indeno(1,2,3-cd)pyrene

Totals : 7257.23505

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

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*** End of Report ***

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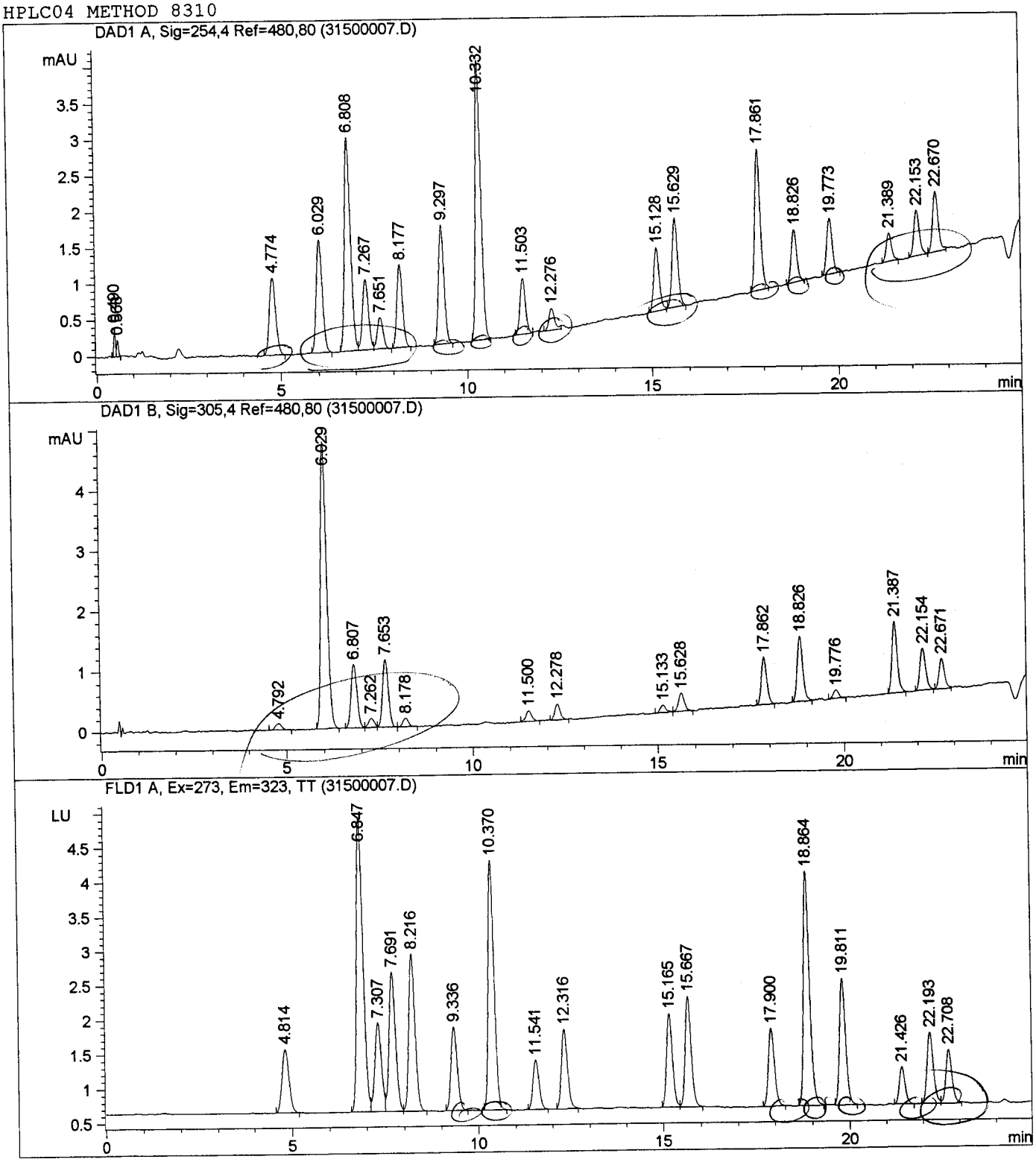
Injection Date : 11/11/2005 1:58:51 PM
Sample Name : ICAL,S1619
Acq. Operator : HPL
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\111105.S
Method : G:\HPLC4\METHODS\8310-279.M
Last changed : 10/6/2005 3:43:10 PM by HPL

Seq. Line : 7
Location : Vial 7
Inj : 1
Inj Volume : 10 µl

HPLC04 METHOD 8310



External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.774	BB	12.93610	66.34936	858.30216		Naphthalene
6.029	BP	18.10486	82.30406	1490.10338		Acenaphthylene
6.808	BV	33.69632	95.40349	3214.74658		1-Methylnaphthalene (UV)
7.267	VV	11.08442	71.79145	795.76654		2-Methylnaphthalene
7.651	VP	4.74731	176.33443	837.11399		Acenaphthene
8.177	BB	12.32529	13.92603	171.64236		Fluorene
9.297	BP	17.60023	4.17662	73.50957		Phenanthrene
10.332	BB	40.26488	2.30532	92.82361		Anthracene
11.503	BB	8.10875	22.11645	179.33672		Fluoranthene
12.276	BB	3.37576	33.32367	112.49269		Pyrene
15.128	BB	9.04709	11.26978	101.95875		Benzo(a)anthracene
15.629	BP	12.98439	6.65961	86.47095		Chrysene
17.861	BB	20.42125	8.52533	174.09794		Benzo(b)fluoranthene
18.826	PB	7.64667	12.12618	92.72493		Benzo(k)fluoranthene
19.773	PB	8.07857	12.18233	98.41584		Benzo(a)pyrene
21.389	PB	4.19752	50.63165	212.52734		Dibenz(a,h)anthracene
22.153	BB	6.92526	28.95217	200.50147		Benzo(g,h,i)perylene
22.670	BB	8.89846	9.94855	88.52670		Indeno(1,2,3-cd)pyrene

Totals : 8881.06150

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.029	BB	54.47855	29.93431	1630.77756		Acenaphthylene
6.807	BV	12.00962	269.56399	3237.36076		1-Methylnaphthalene (UV)

Totals : 4868.13833

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.814	BB	11.75017	69.75120	819.58829		Naphthalene
6.847	BV	52.31355	58.12799	3040.88144		1-Methylnaphthalene (F)
7.307	VV	15.91236	52.73126	839.07877		2-Methylnaphthalene
7.691	VV	24.11610	38.21651	921.63314		Acenaphthene
8.216	VB	26.56478	5.97242	158.65617		Fluorene
9.336	BB	14.06300	5.54162	77.93185		Phenanthrene
10.370	BB	40.76149	2.27821	92.86343		Anthracene
11.541	BB	8.04222	22.83820	183.66985		Fluoranthene
12.316	BB	13.19262	8.10517	106.92843		Pyrene
15.165	BV	14.92142	6.33121	94.47071		Benzo(a)anthracene
15.667	VB	18.25678	4.15561	75.86804		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.900	BB	13.14865	13.13871	172.75625		Benzo(b)fluoranthene
18.864	BB	38.92237	2.25029	87.58671		Benzo(k)fluoranthene
19.811	BB	21.28449	4.40834	93.82927		Benzo(a)pyrene
21.426	BB	5.97265	32.86253	196.27623		Dibenz(a,h)anthracene
22.193	BV	12.27477	15.74478	193.26353		Benzo(g,h,i)perylene
22.708	VB	9.31294	10.37773	96.64717		Indeno(1,2,3-cd)pyrene

Totals : 7251.92928

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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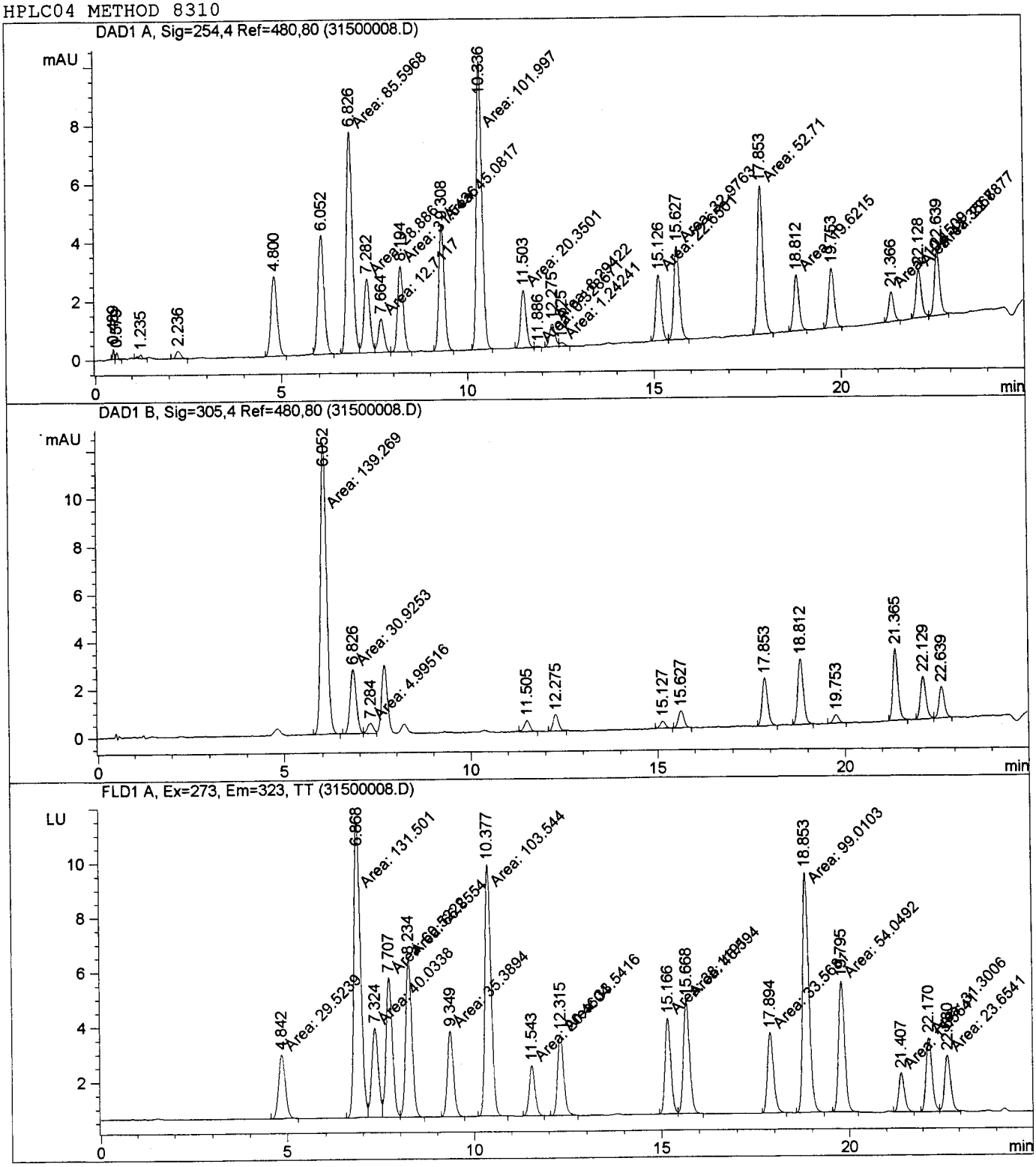
Injection Date	: 11/11/2005 2:30:29 PM	Seq. Line :	8
Sample Name	: ICAL,S1618	Location :	Vial 8
Acq. Operator	: HPL	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 11/14/2005 3:00:13 PM by HPL (modified after loading)		

HPLC04 METHOD 8310



Cfm 14 NOV 2005

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, November 14, 2005 3:00:10 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.800	BB	32.45070	72.70009	2359.16858		Naphthalene
6.052	BB	46.41474	98.73175	4582.60878		Acenaphthylene
6.826	MF	85.59682	110.17545	9430.66834		1-Methylnaphthalene (UV)
7.282	MF	28.88600	81.58671	2356.71340		2-Methylnaphthalene
7.664	MF	12.71169	197.23768	2507.22512		Acenaphthene
8.194	FM	31.54358	15.18195	478.89303		Fluorene
9.308	MM	45.08168	5.12333	230.96823		Phenanthrene
10.336	MM	101.99684	2.52989	258.04046		Anthracene
11.503	MF	20.35011	23.65285	481.33803		Fluoranthene
12.275	MF	8.29422	32.00940	265.49301		Pyrene
15.126	MF	22.65013	11.42245	258.72010		Benzo(a)anthracene
15.627	FM	32.97633	7.19471	237.25512		Chrysene
17.853	MM	52.71000	9.03563	476.26797		Benzo(b)fluoranthene
18.812	MM	19.62153	12.32258	241.78789		Benzo(k)fluoranthene
19.753	BB	21.05889	12.35024	260.08227		Benzo(a)pyrene
21.366	MM	10.15091	48.21422	489.41796		Dibenz(a,h)anthracene
22.128	MF	17.35672	29.29287	508.42823		Benzo(g,h,i)perylene
22.639	MF	22.88771	10.53760	241.18165		Indeno(1,2,3-cd)pyrene

Totals : 2.56643e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.052	MF	139.26938	33.52302	4668.72991		Acenaphthylene
6.826	MF	30.92526	307.37816	9505.74842		1-Methylnaphthalene (UV)

Totals : 1.41745e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.842	MM	29.52386	82.28063	2429.24189		Naphthalene
6.868	MF	131.50134	75.18472	9886.89193		1-Methylnaphthalene (F)
7.324	MF	40.03383	61.08019	2445.27424		2-Methylnaphthalene
7.707	MF	60.52220	43.21715	2615.59688		Acenaphthene
8.234	FM	66.85545	7.17540	479.71428		Fluorene
9.349	MF	35.38944	6.86115	242.81233		Phenanthrene
10.377	MF	103.54391	2.64167	273.52895		Anthracene
11.543	MF	20.46036	24.34715	498.15134		Fluoranthene
12.315	MM	33.54156	8.19409	274.84250		Pyrene
15.166	MF	38.11910	6.98704	266.33956		Benzo(a)anthracene
15.668	FM	46.59403	5.09200	237.25667		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.894	MM	33.56808	14.71074	493.81120		Benzo(b)fluoranthene
18.853	MM	99.01035	2.53583	251.07334		Benzo(k)fluoranthene
19.795	MM	54.04917	4.96313	268.25313		Benzo(a)pyrene
21.407	FM	15.56407	32.54079	506.46715		Dibenz(a,h)anthracene
22.170	MF	31.30061	16.54396	517.83608		Benzo(g,h,i)perylene
22.680	MF	23.65410	10.70895	253.31063		Indeno(1,2,3-cd)pyrene

Totals : 2.19404e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

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*** End of Report ***

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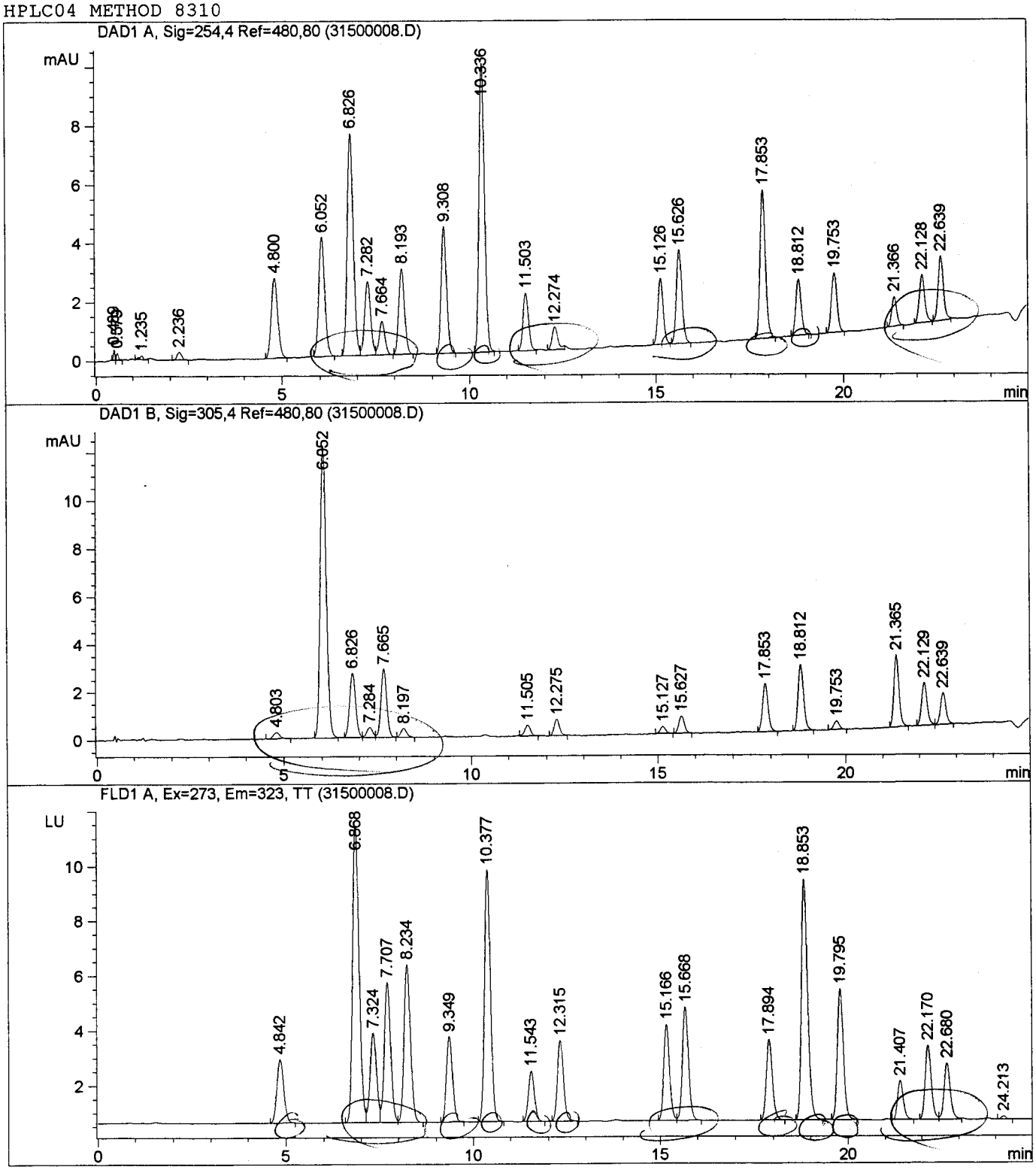
Injection Date	: 11/11/2005 2:30:29 PM	Seq. Line :	8
Sample Name	: ICAL,S1618	Location :	Vial 8
Acq. Operator	: HPL	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Sequence File	: G:\HPLC4\SEQUENCE\111105.S		
Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		

HPLC04 METHOD 8310



External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.800	BB	32.45070	72.13379	2340.79149		Naphthalene
6.052	BB	46.41474	97.47305	4524.18642		Acenaphthylene
6.826	BV	85.48909	109.01084	9319.23762		1-Methylnaphthalene (UV)
7.282	VV	28.86073	80.36683	2319.44495		2-Methylnaphthalene
7.664	VB	12.75819	195.54302	2494.77487		Acenaphthene
8.193	BP	31.35541	15.05241	471.97439		Fluorene
9.308	BB	44.95625	5.07354	228.08720		Phenanthrene
10.336	BB	101.81434	2.54015	258.62379		Anthracene
11.503	BB	20.25716	23.52177	476.48430		Fluoranthene
12.274	BB	8.86513	32.30667	286.40285		Pyrene
15.126	BB	22.58729	11.44855	258.59180		Benzo(a)anthracene
15.626	BB	32.85527	7.12145	233.97726		Chrysene
17.853	BB	52.60531	8.95539	471.10131		Benzo(b)fluoranthene
18.812	BB	19.49981	12.23636	238.60663		Benzo(k)fluoranthene
19.753	BB	21.05889	12.42719	261.70278		Benzo(a)pyrene
21.366	BB	9.82602	48.25325	474.13755		Dibenz(a,h)anthracene
22.128	BB	17.33887	29.45711	510.75295		Benzo(g,h,i)perylene
22.639	BB	22.90755	10.36379	237.40916		Indeno(1,2,3-cd)pyrene

Totals : 2.54063e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.052	BB	139.20410	33.13364	4612.33824		Acenaphthylene
6.826	BV	30.88276	304.65438	9408.56827		1-Methylnaphthalene (UV)

Totals : 1.40209e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.842	BB	29.54389	82.09246	2425.33050		Naphthalene
6.868	BV	131.35318	75.02275	9854.47696		1-Methylnaphthalene (F)
7.324	VV	39.92328	60.83664	2428.79830		2-Methylnaphthalene
7.707	VV	60.68877	43.53636	2642.16794		Acenaphthene
8.234	VP	66.88683	7.12841	476.79680		Fluorene
9.349	BB	35.33434	6.85493	242.21443		Phenanthrene
10.377	BB	103.36371	2.67632	276.63413		Anthracene
11.543	BB	20.42098	24.28460	495.91516		Fluoranthene
12.315	BP	33.42951	8.25757	276.04666		Pyrene
15.166	BV	38.16887	7.04747	268.99399		Benzo(a)anthracene
15.668	VB	46.75665	5.06420	236.78521		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.894	BB	33.65839	14.68903	494.40905		Benzo(b)fluoranthene
18.853	BB	99.28812	2.53778	251.97150		Benzo(k)fluoranthene
19.795	BB	54.40104	5.04849	274.64337		Benzo(a)pyrene
21.407	VB	15.67480	32.52783	509.86704		Dibenz(a,h)anthracene
22.170	BV	31.43434	16.70147	524.99978		Benzo(g,h,i)perylene
22.680	VB	23.90936	10.74014	256.78992		Indeno(1,2,3-cd)pyrene

Totals : 2.19368e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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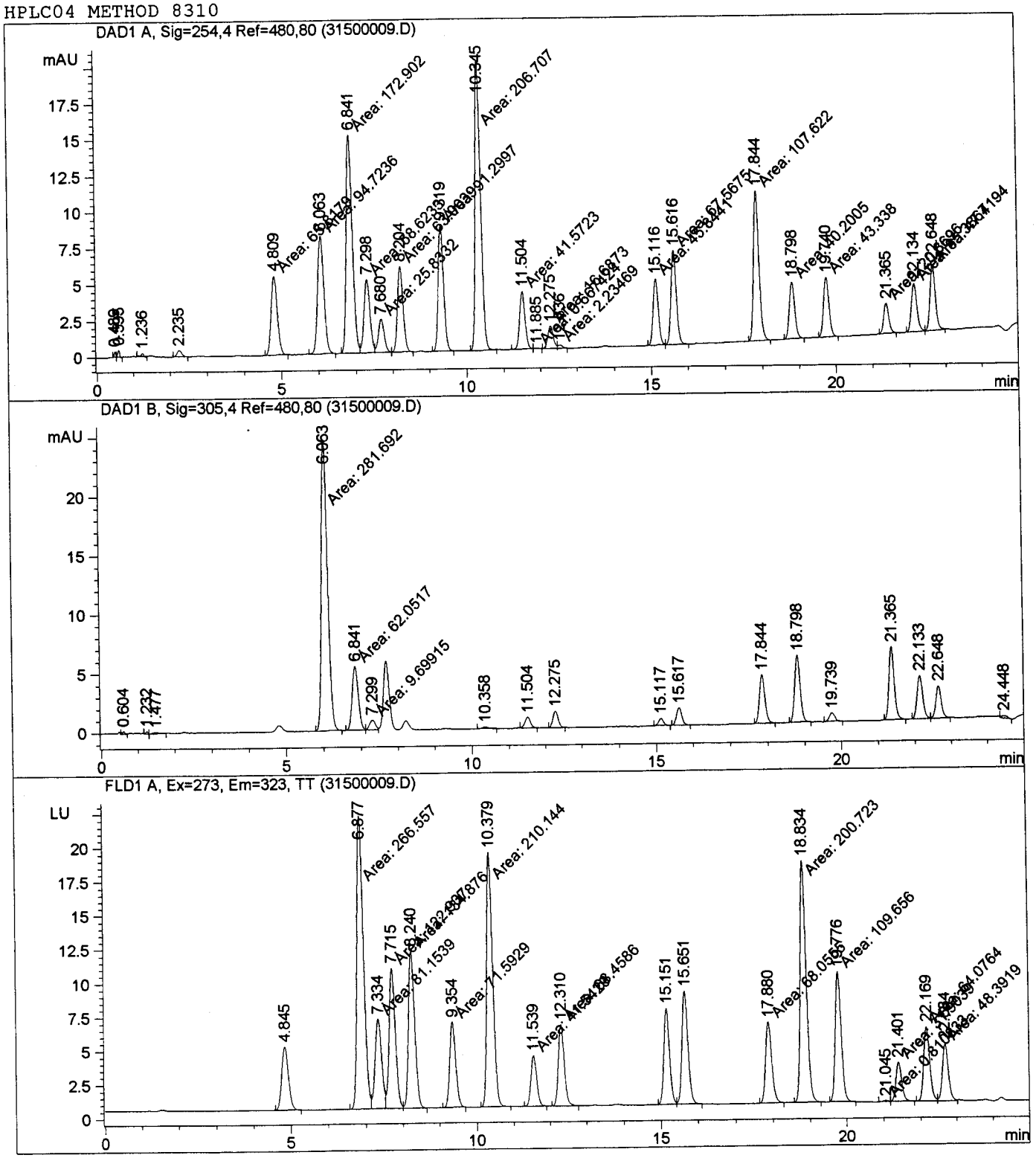
Injection Date	: 11/11/2005 3:02:07 PM	Seq. Line	: 9
Sample Name	: ICAL,S1617	Location	: Vial 9
Acq. Operator	: HPL	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 11/14/2005 3:07:01 PM by HPL (modified after loading)		

HPLC04 METHOD 8310



14NOV2005

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, November 14, 2005 3:06:58 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.809	MM	65.81794	74.68990	4915.93565		Naphthalene
6.063	FM	94.72365	103.57941	9811.41968		Acenaphthylene
6.841	MF	172.90190	114.52772	1.98021e4		1-Methylnaphthalene (UV)
7.298	MF	58.62328	83.99525	4924.07679		2-Methylnaphthalene
7.680	FM	25.83322	201.74861	5211.81622		Acenaphthene
8.204	FM	63.90393	15.52644	992.20051		Fluorene
9.319	MM	91.29965	5.41015	493.94477		Phenanthrene
10.345	MF	206.70654	2.60142	537.73146		Anthracene
11.504	MF	41.57235	24.11833	1002.65548		Fluoranthene
12.275	MF	16.68730	31.70947	529.14556		Pyrene
15.116	MF	45.84408	11.45890	525.32273		Benzo(a)anthracene
15.616	FM	67.56745	7.34524	496.29920		Chrysene
17.844	MM	107.62183	9.16500	986.35375		Benzo(b)fluoranthene
18.798	MM	40.20050	12.34819	496.40329		Benzo(k)fluoranthene
19.740	MM	43.33799	12.39316	537.09448		Benzo(a)pyrene
21.365	MM	20.86957	47.48779	991.04990		Dibenz(a,h)anthracene
22.134	MF	35.38666	29.52447	1044.77234		Benzo(g,h,i)perylene
22.648	FM	47.41936	10.61514	503.36312		Indeno(1,2,3-cd)pyrene

Totals : 5.38016e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.063	MM	281.69171	34.54217	9730.24318		Acenaphthylene
6.841	MF	62.05173	318.05797	1.97360e4		1-Methylnaphthalene (UV)

Totals : 2.94663e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.845	BB	59.72798	86.28175	5153.43422		Naphthalene
6.877	MF	266.55655	80.64870	2.14974e4		1-Methylnaphthalene (F)
7.334	MF	81.15388	63.66615	5166.75506		2-Methylnaphthalene
7.715	MF	122.93717	44.89577	5519.35887		Acenaphthene
8.240	FM	134.87556	7.55029	1018.34974		Fluorene
9.354	MM	71.59289	7.28517	521.56619		Phenanthrene
10.379	MF	210.14381	2.76086	580.17705		Anthracene
11.539	MF	41.54289	24.76682	1028.88537		Fluoranthene
12.310	MM	68.45862	8.20594	561.76725		Pyrene
15.151	BV	77.56648	7.19253	557.89922		Benzo(a)anthracene
15.651	VB	94.90897	5.38216	510.81504		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.880	MM	68.05548	15.18983	1033.75095		Benzo(b)fluoranthene
18.834	MM	200.72287	2.62546	526.98894		Benzo(k)fluoranthene
19.776	MM	109.65622	5.16005	565.83140		Benzo(a)pyrene
21.401	FM	31.90387	32.38865	1033.32317		Dibenz(a,h)anthracene
22.169	MF	64.07645	16.84718	1079.50768		Benzo(g,h,i)perylene
22.684	MF	48.39191	10.82100	523.64893		Indeno(1,2,3-cd)pyrene

Totals : 4.68795e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

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*** End of Report ***

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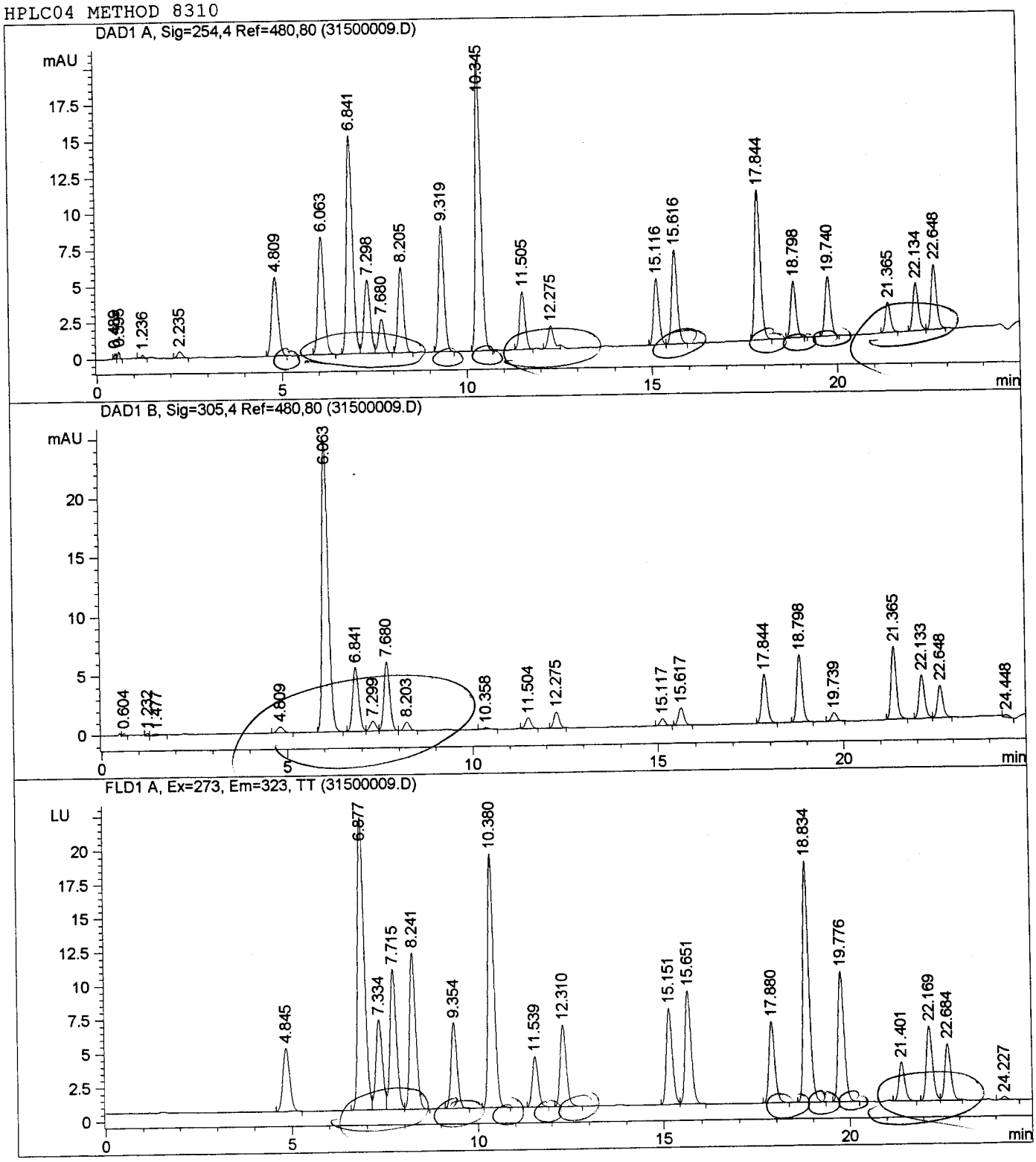
Injection Date : 11/11/2005 3:02:07 PM
Sample Name : ICAL,S1617
Acq. Operator : HPL
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\111105.S
Method : G:\HPLC4\METHODS\8310-279.M
Last changed : 10/6/2005 3:43:10 PM by HPL
HPLC04 METHOD 8310

Seq. Line : 9
Location : Vial 9
Inj : 1
Inj Volume : 10 µl



External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.809	BB	65.71278	74.07469	4867.65345		Naphthalene
6.063	BP	94.12169	102.39011	9637.13016		Acenaphthylene
6.841	BV	172.73824	113.48241	1.96028e4		1-Methylnaphthalene (UV)
7.298	VV	58.57263	83.07927	4866.17115		2-Methylnaphthalene
7.680	VB	25.83042	201.30380	5199.76231		Acenaphthene
8.205	BP	63.65963	15.42261	981.79736		Fluorene
9.319	BB	90.98497	5.36546	488.17656		Phenanthrene
10.345	BB	206.27675	2.61795	540.02164		Anthracene
11.505	BB	41.39744	24.00079	993.57129		Fluoranthene
12.275	BB	17.62935	31.99576	564.06441		Pyrene
15.116	BV	45.72667	11.50900	526.26804		Benzo(a)anthracene
15.616	VB	67.40410	7.27614	490.44141		Chrysene
17.844	BB	107.38456	9.09460	976.61920		Benzo(b)fluoranthene
18.798	BP	39.85841	12.27266	489.16867		Benzo(k)fluoranthene
19.740	BB	43.09857	12.50512	538.95278		Benzo(a)pyrene
21.365	BB	20.85756	47.31513	986.87813		Dibenz(a,h)anthracene
22.134	BV	35.32772	29.62809	1046.69313		Benzo(g,h,i)perylene
22.648	VB	47.31700	10.49986	496.82201		Indeno(1,2,3-cd)pyrene

Totals : 5.32929e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.063	BB	282.09546	34.17567	9640.80043		Acenaphthylene
6.841	BV	62.37429	315.92794	1.97058e4		1-Methylnaphthalene (UV)

Totals : 2.93466e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.845	BB	59.72798	86.21093	5149.20472		Naphthalene
6.877	BV	266.22534	80.68768	2.14811e4		1-Methylnaphthalene (F)
7.334	VV	81.04146	63.56202	5151.15865		2-Methylnaphthalene
7.715	VV	123.21004	45.31641	5583.43619		Acenaphthene
8.241	VP	134.90443	7.51239	1013.45508		Fluorene
9.354	BB	71.58997	7.29465	522.22361		Phenanthrene
10.380	BB	209.99489	2.80794	589.65317		Anthracene
11.539	BB	41.48593	24.76174	1027.26370		Fluoranthene
12.310	BB	68.45389	8.30841	568.74285		Pyrene
15.151	BV	77.56648	7.28098	564.75992		Benzo(a)anthracene
15.651	VB	94.90897	5.35950	508.66493		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.880	BB	68.38180	15.19372	1038.97377		Benzo(b)fluoranthene
18.834	BB	201.39085	2.63176	530.01225		Benzo(k)fluoranthene
19.776	BB	110.50912	5.25739	580.98965		Benzo(a)pyrene
21.401	VB	31.95950	32.42284	1036.21768		Dibenz(a,h)anthracene
22.169	BV	64.03069	17.01349	1089.38566		Benzo(g,h,i)perylene
22.684	VB	48.75404	10.85798	529.37037		Indeno(1,2,3-cd)pyrene

Totals : 4.69646e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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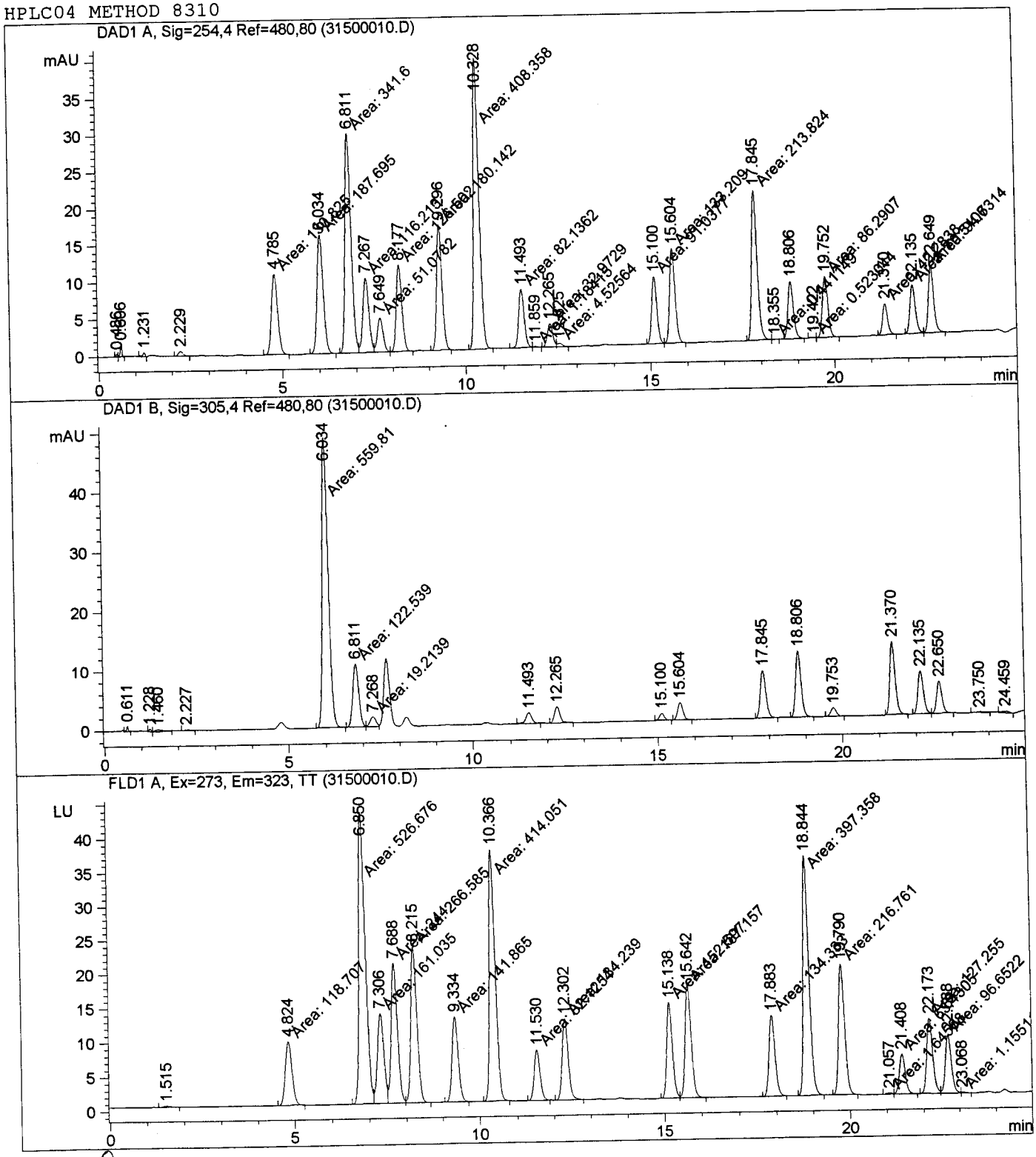
Injection Date	: 11/11/2005 3:33:43 PM	Seq. Line	: 10
Sample Name	: ICAL,S1616	Location	: Vial 10
Acq. Operator	: HPL	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 11/14/2005 3:14:51 PM by HPL (modified after loading)		

HPLC04 METHOD 8310



CJm 14 NOV 2005

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, November 14, 2005 3:14:48 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.785	MM	130.82538	75.54302	9882.94420		Naphthalene
6.034	FM	187.69478	105.70363	1.98400e4		Acenaphthylene
6.811	MF	341.59979	116.48709	3.97920e4		1-Methylnaphthalene (UV)
7.267	MF	116.21339	85.00920	9879.20684		2-Methylnaphthalene
7.649	FM	51.07816	203.87406	1.04135e4		Acenaphthene
8.177	FM	126.50168	15.68515	1984.19809		Fluorene
9.296	MM	180.14212	5.54173	998.29810		Phenanthrene
10.328	MM	408.35837	2.63616	1076.49807		Anthracene
11.493	MF	82.13621	24.31602	1997.22570		Fluoranthene
12.265	MF	32.97289	31.58154	1041.33440		Pyrene
15.100	MF	91.03773	11.47857	1044.98346		Benzo(a)anthracene
15.604	FM	133.20935	7.39809	985.49501		Chrysene
17.845	MF	213.82385	9.21996	1971.44655		Benzo(b)fluoranthene
18.806	BB	80.29658	12.34046	990.89709		Benzo(k)fluoranthene
19.752	FM	86.29072	12.40943	1070.81845		Benzo(a)pyrene
21.370	MM	42.28377	47.03858	1988.96843		Dibenz(a,h)anthracene
22.135	MF	70.51058	29.55885	2084.21172		Benzo(g,h,i)perylene
22.649	FM	94.73141	10.61609	1005.67688		Indeno(1,2,3-cd)pyrene
Totals :				1.08048e5		

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.034	MM	559.80969	34.99729	1.95918e4		Acenaphthylene
6.811	MF	122.53880	323.25111	3.96108e4		1-Methylnaphthalene (UV)
Totals :				5.92026e4		

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.824	MM	118.70710	88.18639	1.04684e4		Naphthalene
6.850	MF	526.67639	83.23390	4.38373e4		1-Methylnaphthalene (F)
7.306	MF	161.03452	64.87271	1.04467e4		2-Methylnaphthalene
7.688	MF	243.99982	45.76548	1.11668e4		Acenaphthene
8.215	FM	266.58530	7.72147	2058.43018		Fluorene
9.334	MM	141.86461	7.48991	1062.55291		Phenanthrene
10.366	MM	414.05106	2.82175	1168.34684		Anthracene
11.530	MF	82.12543	24.96775	2050.48763		Fluoranthene
12.302	FM	134.23868	8.22917	1104.67311		Pyrene
15.138	MF	152.59743	7.29908	1113.82089		Benzo(a)anthracene
15.642	FM	187.15659	5.51415	1032.00974		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.883	MM	134.33257	15.41683	2070.98167		Benzo(b)fluoranthene
18.844	MM	397.35812	2.66866	1060.41316		Benzo(k)fluoranthene
19.790	MM	216.76112	5.26196	1140.58923		Benzo(a)pyrene
21.408	FM	63.43048	32.29165	2048.27502		Dibenz(a,h)anthracene
22.173	MF	127.25459	16.99433	2162.60667		Benzo(g,h,i)perylene
22.688	FM	96.65224	10.86816	1050.43188		Indeno(1,2,3-cd)pyrene

Totals : 9.50428e4

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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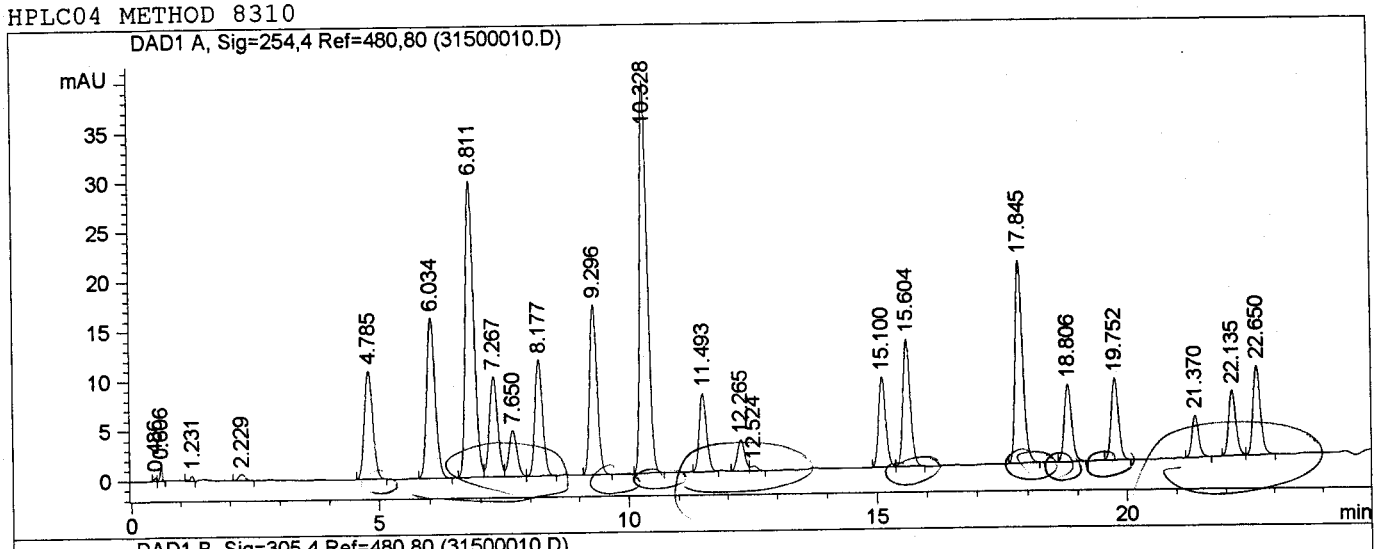
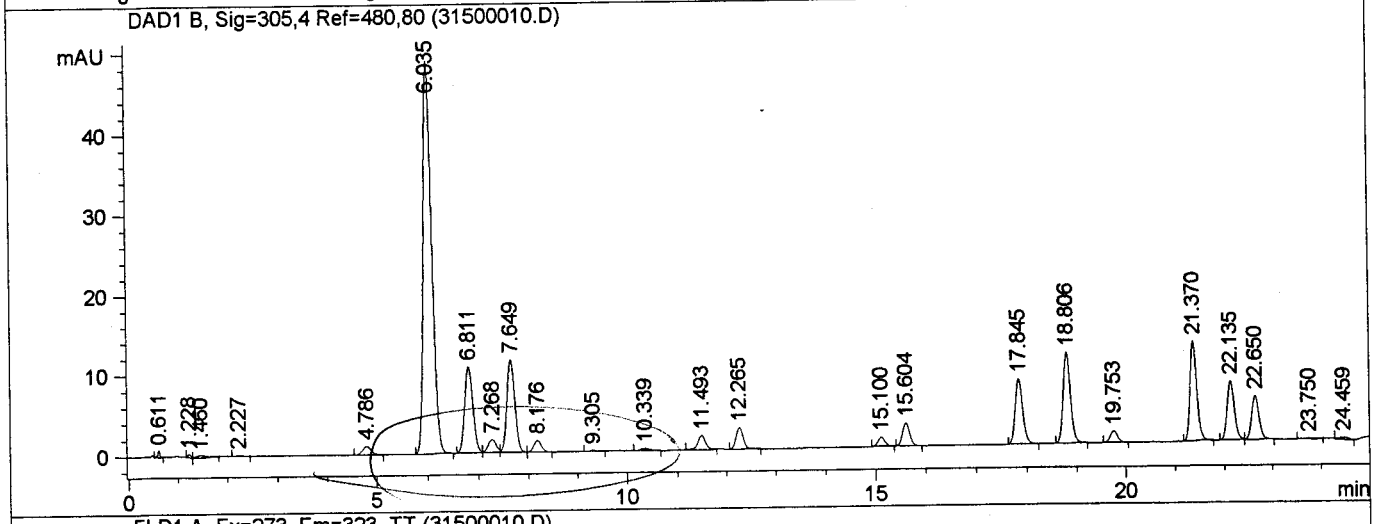
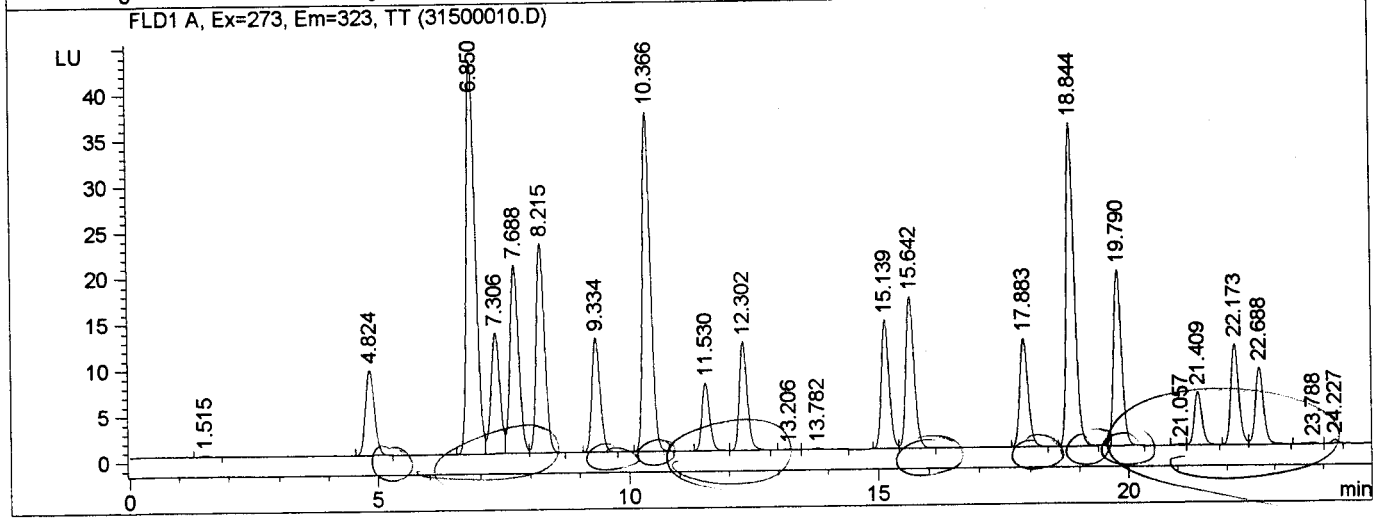
Injection Date : 11/11/2005 3:33:43 PM
Sample Name : ICAL,S1616
Acq. Operator : HPL
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\111105.S
Method : G:\HPLC4\METHODS\8310-279.M
Last changed : 10/6/2005 3:43:10 PM by HPL

Seq. Line : 10
Location : Vial 10
Inj : 1
Inj Volume : 10 µl

HPLC04 METHOD 8310







External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.785	BB	130.69728	75.01619	9804.41228		Naphthalene
6.034	BP	186.95413	104.76555	1.95864e4		Acenaphthylene
6.811	BV	341.22687	115.64580	3.94615e4		1-Methylnaphthalene (UV)
7.267	VV	116.13739	84.38521	9800.27753		2-Methylnaphthalene
7.650	VV	51.12721	204.08565	1.04343e4		Acenaphthene
8.177	VP	126.33327	15.60087	1970.90832		Fluorene
9.296	BB	179.98192	5.50645	991.06175		Phenanthrene
10.328	BB	407.93036	2.65543	1083.23037		Anthracene
11.493	BB	81.93497	24.22788	1985.11100		Fluoranthene
12.265	BV	33.02501	31.84914	1051.81825		Pyrene
15.100	BV	90.69476	11.53825	1046.45885		Benzo(a)anthracene
15.604	VB	133.16466	7.34878	978.59770		Chrysene
17.845	BB	213.27332	9.16097	1953.78962		Benzo(b)fluoranthene
18.806	BB	80.29658	12.29017	986.85871		Benzo(k)fluoranthene
19.752	BB	86.13814	12.54233	1080.37258		Benzo(a)pyrene
21.370	BB	42.19322	46.89259	1978.54929		Dibenz(a,h)anthracene
22.135	BV	70.71999	29.71057	2101.13127		Benzo(g,h,i)perylene
22.650	VB	94.98906	10.56395	1003.45958		Indeno(1,2,3-cd)pyrene

Totals : 1.07298e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.035	BB	560.25836	34.67967	1.94296e4		Acenaphthylene
6.811	BV	122.83937	321.36984	3.94769e4		1-Methylnaphthalene (UV)

Totals : 5.89064e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.824	BB	118.72701	88.21412	1.04734e4		Naphthalene
6.850	BV	526.30212	83.41401	4.39010e4		1-Methylnaphthalene (F)
7.306	VV	161.37877	64.87933	1.04701e4		2-Methylnaphthalene
7.688	VV	244.91475	46.17503	1.13089e4		Acenaphthene
8.215	VB	268.10632	7.69999	2064.41684		Fluorene
9.334	BB	143.65472	7.50963	1078.79354		Phenanthrene
10.366	BB	416.53885	2.87121	1195.96919		Anthracene
11.530	BV	84.56513	24.99737	2113.90598		Fluoranthene
12.302	VB	136.60251	8.33261	1138.25589		Pyrene
15.139	BV	152.71040	7.39230	1128.88063		Benzo(a)anthracene
15.642	VB	187.57530	5.50116	1031.88160		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.883	BB	134.70059	15.43458	2079.04669		Benzo(b)fluoranthene
18.844	BB	398.44977	2.67696	1066.63262		Benzo(k)fluoranthene
19.790	BB	217.90498	5.35721	1167.36365		Benzo(a)pyrene
21.409	VB	63.51436	32.37264	2056.12727		Dibenz(a,h)anthracene
22.173	BV	127.26810	17.16300	2184.30307		Benzo(g,h,i)perylene
22.688	VB	98.13403	10.91504	1071.13686		Indeno(1,2,3-cd)pyrene

Totals : 9.55302e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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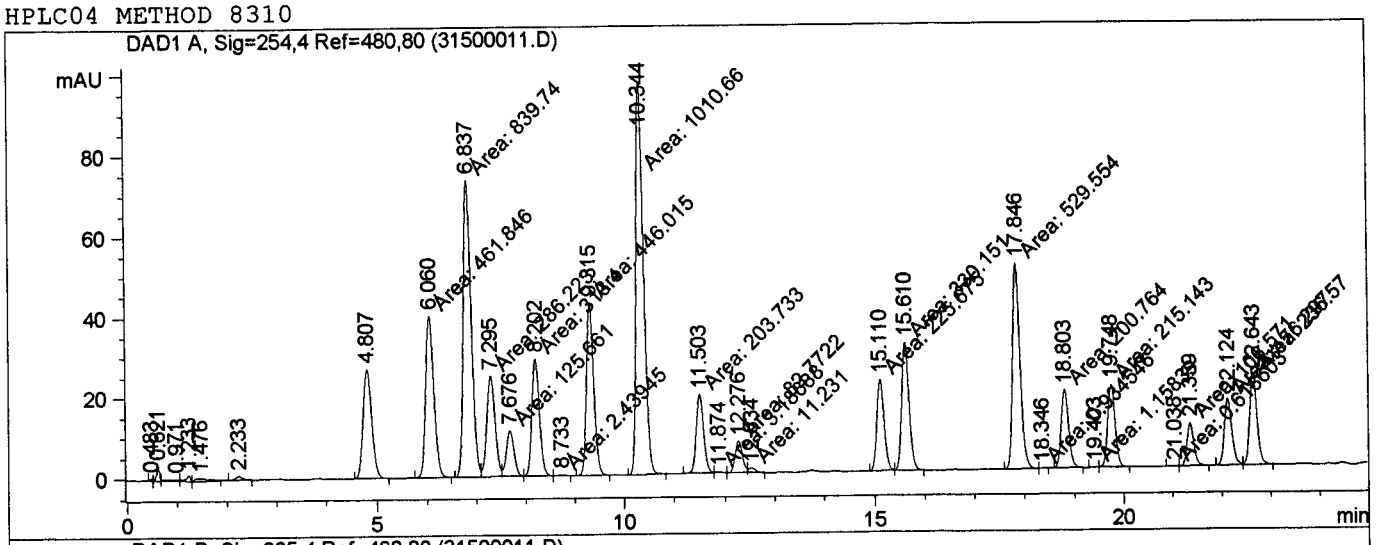
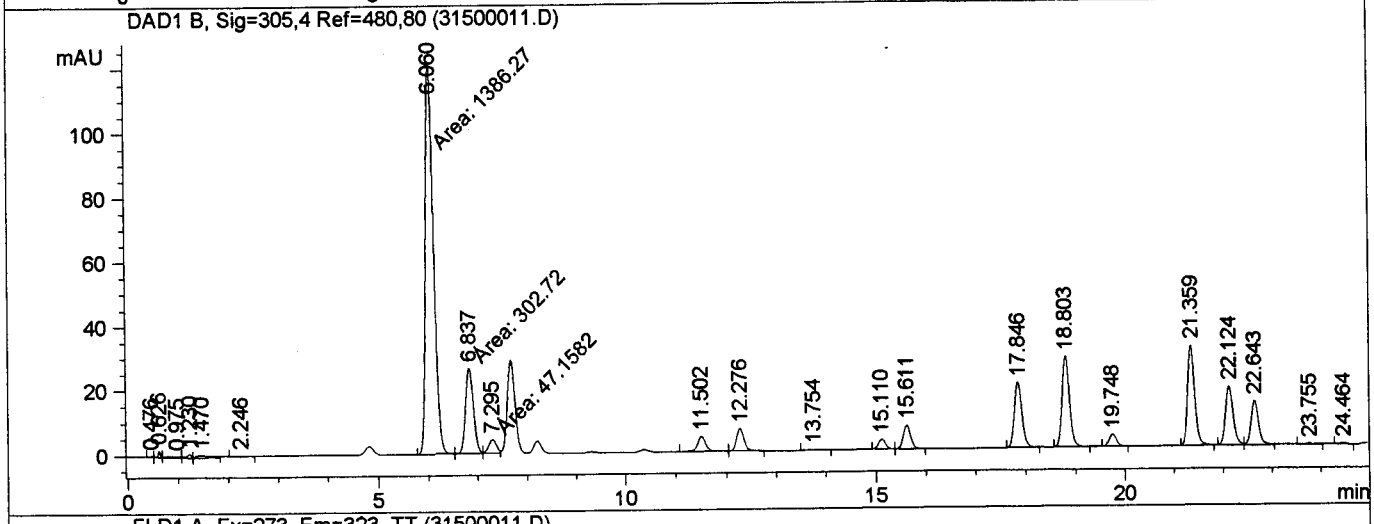
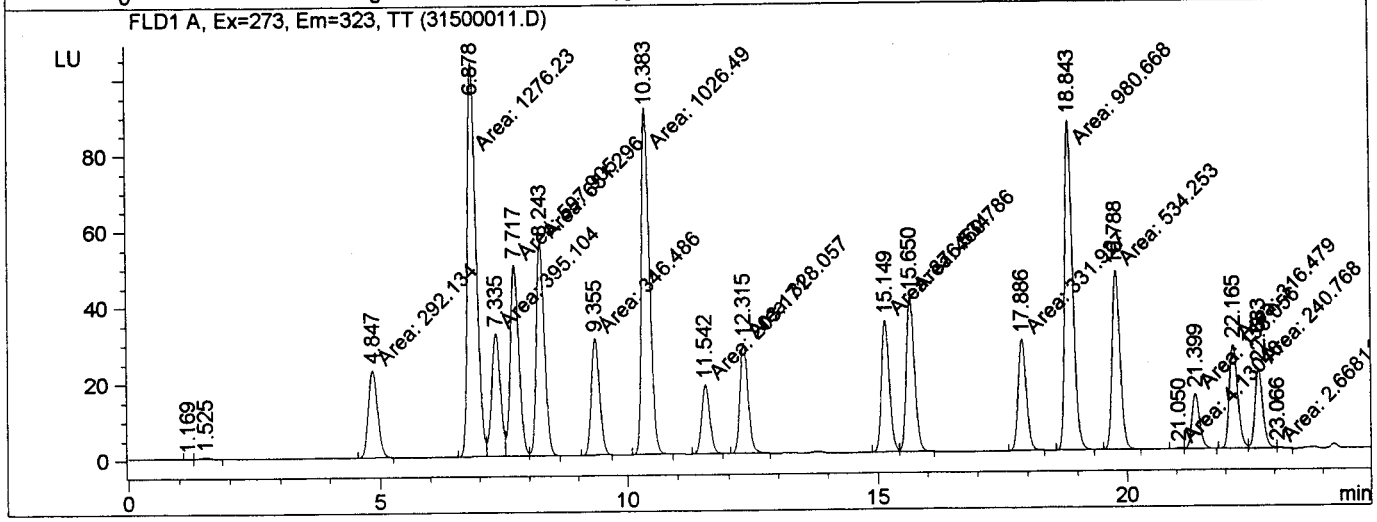
Injection Date	: 11/11/2005 4:05:21 PM	Seq. Line	: 11
Sample Name	: ICAL,S1615	Location	: Vial 11
Acq. Operator	: HPL	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 11/14/2005 3:24:02 PM by HPL (modified after loading)		

HPLC04 METHOD 8310







Chm 14 NOV 2005

417

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, November 14, 2005 3:23:59 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.807	BB	323.61371	75.88262	2.45567e4		Naphthalene
6.060	FM	461.84637	106.68358	4.92714e4		Acenaphthylene
6.837	MF	839.73962	117.40616	9.85906e4		1-Methylnaphthalene (UV)
7.295	FM	286.22339	85.64761	2.45143e4		2-Methylnaphthalene
7.676	FM	125.66128	205.56332	2.58313e4		Acenaphthene
8.202	FM	313.40030	15.75905	4938.89049		Fluorene
9.315	MM	446.01529	5.61246	2503.24489		Phenanthrene
10.344	MF	1010.66217	2.66779	2696.23356		Anthracene
11.503	MF	203.73349	24.42287	4975.75651		Fluoranthene
12.276	MF	82.77225	31.63674	2618.64393		Pyrene
15.110	MF	225.67519	11.52381	2600.63749		Benzo(a)anthracene
15.610	FM	330.15082	7.41885	2449.33971		Chrysene
17.846	MF	529.55377	9.23486	4890.35241		Benzo(b)fluoranthene
18.803	MM	200.76387	12.32753	2474.92318		Benzo(k)fluoranthene
19.748	FM	215.14328	12.51112	2691.68417		Benzo(a)pyrene
21.359	FM	106.57118	46.71340	4978.30186		Dibenz(a,h)anthracene
22.124	MF	176.29678	29.69153	5234.52195		Benzo(g,h,i)perylene
22.643	MF	236.57013	10.62343	2513.18679		Indeno(1,2,3-cd)pyrene

Totals : 2.68330e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.060	MF	1386.26819	35.15840	4.87390e4		Acenaphthylene
6.837	MF	302.71973	325.90068	9.86566e4		1-Methylnaphthalene (UV)

Totals : 1.47396e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.847	MM	292.13416	89.38284	2.61118e4		Naphthalene
6.878	MF	1276.22900	84.71264	1.08113e5		1-Methylnaphthalene (F)
7.335	MF	395.10352	65.63405	2.59322e4		2-Methylnaphthalene
7.717	FM	597.90503	46.27010	2.76651e4		Acenaphthene
8.243	FM	651.29639	7.82882	5098.88043		Fluorene
9.355	MM	346.48584	7.62343	2641.41109		Phenanthrene
10.383	MF	1026.49353	2.88463	2961.05835		Anthracene
11.542	MF	203.17122	25.12260	5104.18826		Fluoranthene
12.315	FM	328.05682	8.28614	2718.32530		Pyrene
15.149	MF	376.53439	7.41134	2790.62551		Benzo(a)anthracene
15.650	FM	460.78613	5.59125	2576.37103		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.886	MM	331.92670	15.57289	5169.05699		Benzo(b)fluoranthene
18.843	MM	980.66785	2.69598	2643.86535		Benzo(k)fluoranthene
19.788	MM	534.25336	5.37679	2872.56627		Benzo(a)pyrene
21.399	FM	158.05646	32.30976	5106.76669		Dibenz(a,h)anthracene
22.165	MF	316.47900	17.17133	5434.36481		Benzo(g,h,i)perylene
22.683	FM	240.76752	10.92160	2629.56726		Indeno(1,2,3-cd)pyrene
Totals :				2.35569e5		

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

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*** End of Report ***

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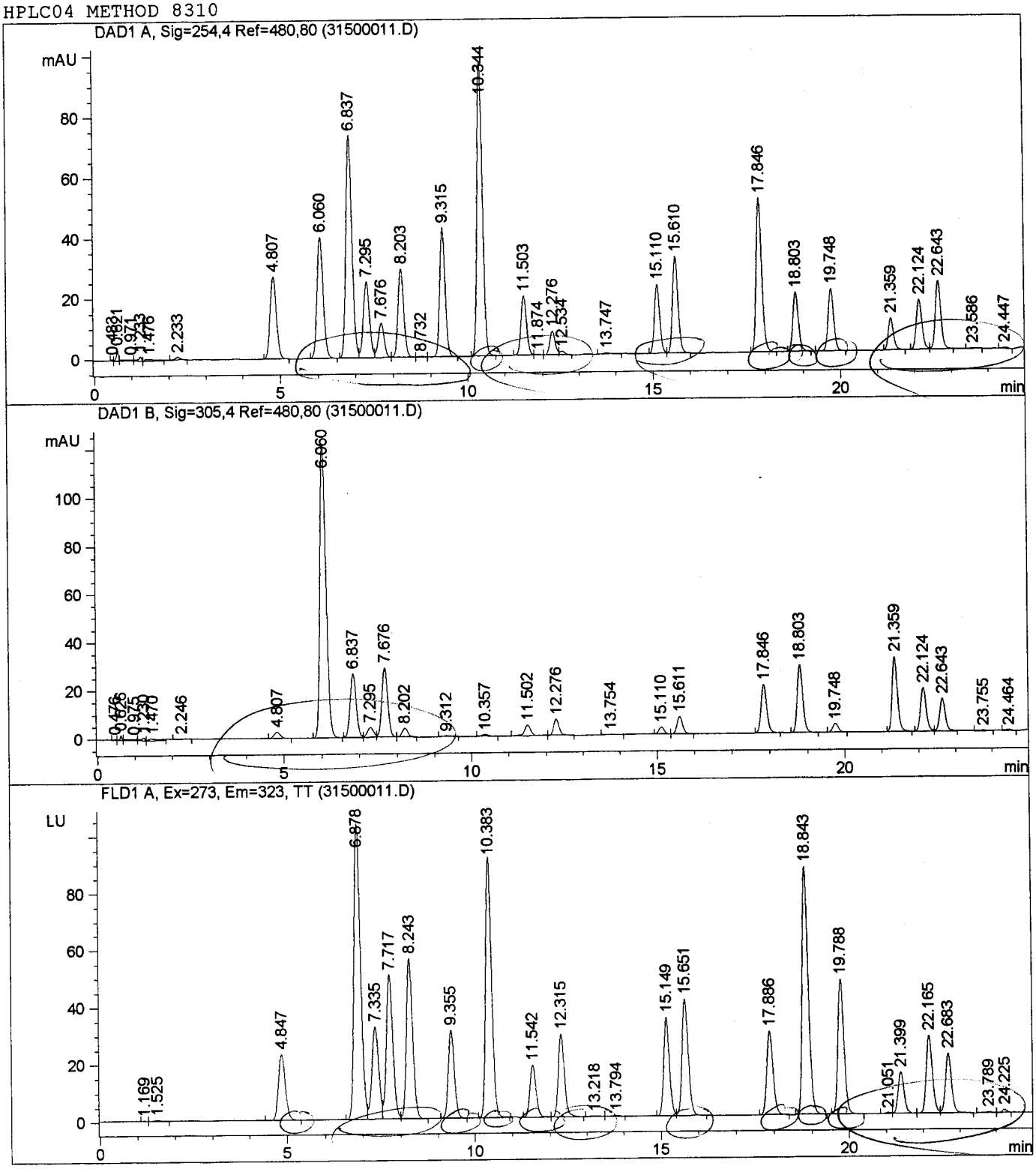
Injection Date : 11/11/2005 4:05:21 PM
Sample Name : ICAL,S1615
Acq. Operator : HPL
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\111105.S
Method : G:\HPLC4\METHODS\8310-279.M
Last changed : 10/6/2005 3:43:10 PM by HPL
HPLC04 METHOD 8310

Seq. Line : 11
Location : Vial 11
Inj : 1
Inj Volume : 10 µl



External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.807	BB	323.61371	75.58374	2.44599e4		Naphthalene
6.060	BP	460.62192	106.19647	4.89164e4		Acenaphthylene
6.837	BV	839.16504	116.96188	9.81503e4		1-Methylnaphthalene (UV)
7.295	VV	286.60989	85.17556	2.44122e4		2-Methylnaphthalene
7.676	VV	126.50960	205.77821	2.60329e4		Acenaphthene
8.203	VB	314.15155	15.70912	4935.04329		Fluorene
9.315	VP	446.43643	5.59248	2496.68672		Phenanthrene
10.344	PB	1008.37457	2.67826	2700.68981		Anthracene
11.503	BV	203.32158	24.36634	4954.20236		Fluoranthene
12.276	VV	82.54977	31.74842	2620.82491		Pyrene
15.110	BV	225.34038	11.55602	2604.03901		Benzo(a)anthracene
15.610	VB	330.47839	7.39324	2443.30457		Chrysene
17.846	BB	529.04700	9.20114	4867.83559		Benzo(b)fluoranthene
18.803	BB	201.21896	12.30054	2475.10275		Benzo(k)fluoranthene
19.748	BB	216.95140	12.56479	2725.94876		Benzo(a)pyrene
21.359	BP	105.96977	46.64399	4942.85308		Dibenz(a,h)anthracene
22.124	BV	176.37206	29.75989	5248.81290		Benzo(g,h,i)perylene
22.643	VB	236.87695	10.60205	2511.38140		Indeno(1,2,3-cd)pyrene

Totals : 2.67498e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.060	BB	1387.49243	34.98442	4.85406e4		Acenaphthylene
6.837	BV	303.13959	324.70876	9.84321e4		1-Methylnaphthalene (UV)

Totals : 1.46973e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.847	VB	292.85437	89.41991	2.61870e4		Naphthalene
6.878	BV	1275.37854	85.05315	1.08475e5		1-Methylnaphthalene (F)
7.335	VV	394.97131	65.66524	2.59359e4		2-Methylnaphthalene
7.717	VV	600.76691	46.68992	2.80498e4		Acenaphthene
8.243	VB	654.91974	7.81221	5116.37136		Fluorene
9.355	BB	350.65323	7.63570	2677.48265		Phenanthrene
10.383	BB	1033.24744	2.90960	3006.33583		Anthracene
11.542	BV	209.66335	25.13277	5269.41968		Fluoranthene
12.315	VB	334.40729	8.34700	2791.29599		Pyrene
15.149	BV	376.61612	7.46061	2809.78641		Benzo(a)anthracene
15.651	VB	461.88678	5.58732	2580.71093		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.886	BB	331.87186	15.58213	5171.26955		Benzo(b)fluoranthene
18.843	BB	982.09100	2.70441	2655.97343		Benzo(k)fluoranthene
19.788	BB	536.22577	5.41819	2905.37327		Benzo(a)pyrene
21.399	VP	158.06680	32.34222	5112.23135		Dibenz(a,h)anthracene
22.165	VV	316.20016	17.25346	5455.54666		Benzo(g,h,i)perylene
22.683	VB	243.49887	10.94867	2665.98932		Indeno(1,2,3-cd)pyrene

Totals : 2.36865e5

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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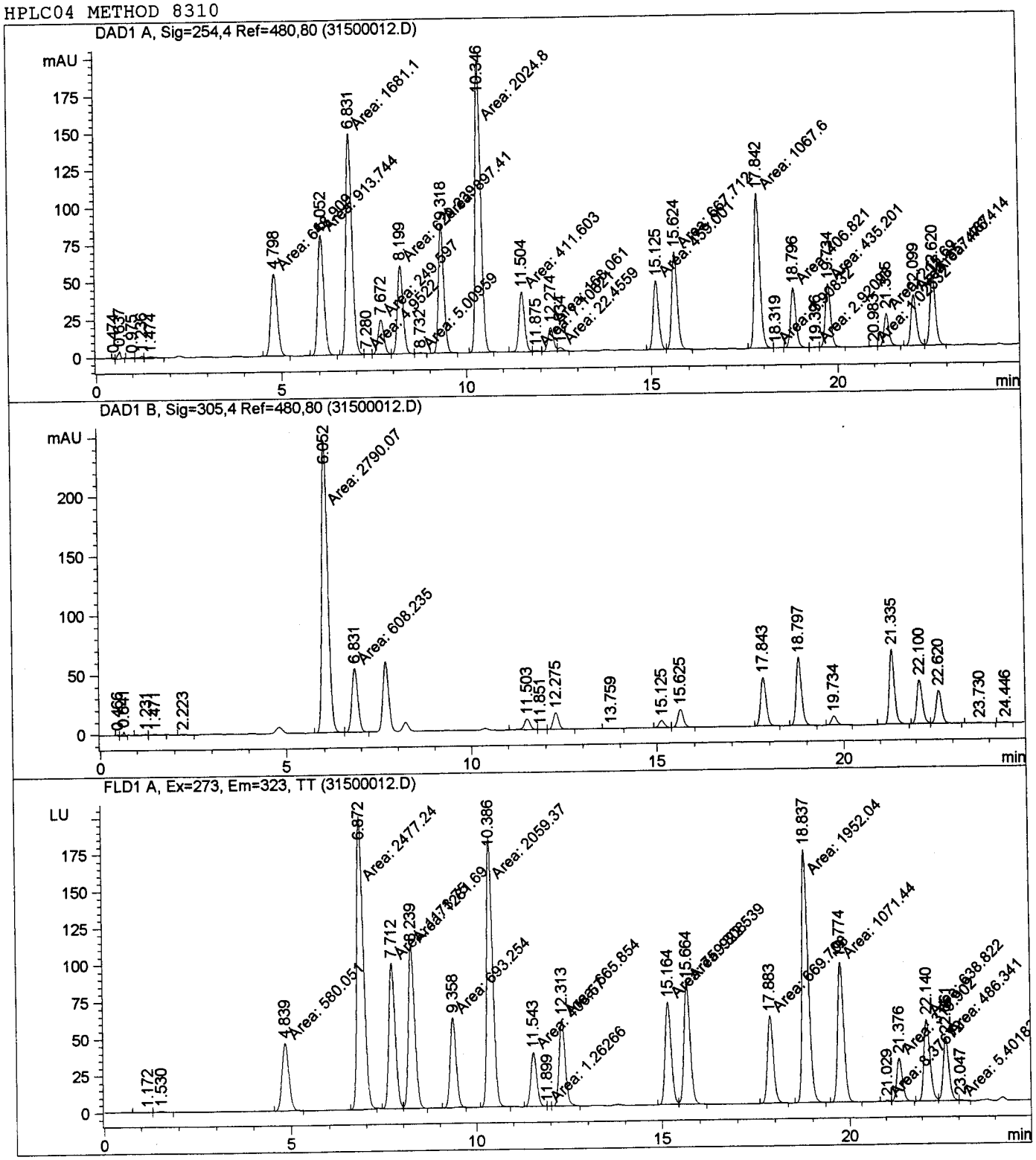
Injection Date	: 11/11/2005 4:36:54 PM	Seq. Line	: 12
Sample Name	: ICAL,S1614	Location	: Vial 12
Acq. Operator	: HPL	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 11/14/2005 4:04:39 PM by HPL (modified after loading)		

HPLC04 METHOD 8310



JM 14 NOV 2005

External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:04:38 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.798	FM	648.90906	77.07999	5.00179e4		Naphthalene
6.052	FM	913.74396	109.19028	9.97720e4		Acenaphthylene
6.831	MF	1681.10107	118.97180	2.00004e5		1-Methylnaphthalene (UV)
7.280	MF	4.95220	79.34361	392.92557		2-Methylnaphthalene
7.672	MF	249.59686	200.00745	4.99212e4		Acenaphthene
8.199	MF	629.23938	15.90162	1.00059e4		Fluorene
9.318	MM	897.40991	5.57725	5005.08079		Phenanthrene
10.346	MF	2024.80078	2.46988	5001.02354		Anthracene
11.504	MF	411.60339	24.33756	1.00174e4		Fluoranthene
12.274	MF	168.06082	29.83443	5013.99819		Pyrene
15.125	MF	459.00107	10.92545	5014.79131		Benzo(a)anthracene
15.624	FM	667.71228	7.50261	5009.58728		Chrysene
17.842	MF	1067.59534	9.37832	1.00122e4		Benzo(b)fluoranthene
18.796	MF	406.82126	12.31843	5011.39735		Benzo(k)fluoranthene
19.734	FM	435.20081	11.51003	5009.17240		Benzo(a)pyrene
21.335	FM	215.69028	46.45435	1.00198e4		Dibenz(a,h)anthracene
22.099	MF	357.48672	28.01144	1.00137e4		Benzo(g,h,i)perylene
22.620	FM	476.41440	10.47141	4988.73112		Indeno(1,2,3-cd)pyrene

Totals : 4.90230e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.052	MF	2790.07104	35.87768	1.00101e5		Acenaphthylene
6.831	MF	608.23541	329.06707	2.00150e5		1-Methylnaphthalene (UV)

Totals : 3.00252e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.839	MM	580.05115	86.06663	4.99230e4		Naphthalene
6.872	MF	2477.23877	78.22578	1.93784e5		1-Methylnaphthalene (F)
7.335		-	-	-		2-Methylnaphthalene
7.712	MF	1173.74512	41.75998	4.90156e4		Acenaphthene
8.239	FM	1281.69031	7.66844	9828.55957		Fluorene
9.358	MM	693.25409	7.21124	4999.22417		Phenanthrene
10.386	MF	2059.37134	2.42912	5002.45295		Anthracene
11.543	MF	408.57028	24.49724	1.00088e4		Fluoranthene
12.313	FM	665.85370	7.52816	5012.65617		Pyrene
15.164	MF	759.30841	6.59405	5006.91434		Benzo(a)anthracene
15.664	FM	922.53937	5.41979	4999.96781		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.883	MF	669.70776	14.95406	1.00148e4		Benzo(b)fluoranthene
18.837	MF	1952.04028	2.55869	4994.66919		Benzo(k)fluoranthene
19.774	FM	1071.43713	4.66813	5001.60824		Benzo(a)pyrene
21.376	FM	319.90201	31.32159	1.00198e4		Dibenz(a,h)anthracene
22.140	MF	638.82190	15.67791	1.00154e4		Benzo(g,h,i)perylene
22.661	MF	486.34088	10.29785	5008.26668		Indeno(1,2,3-cd)pyrene
Totals :				3.82636e5		

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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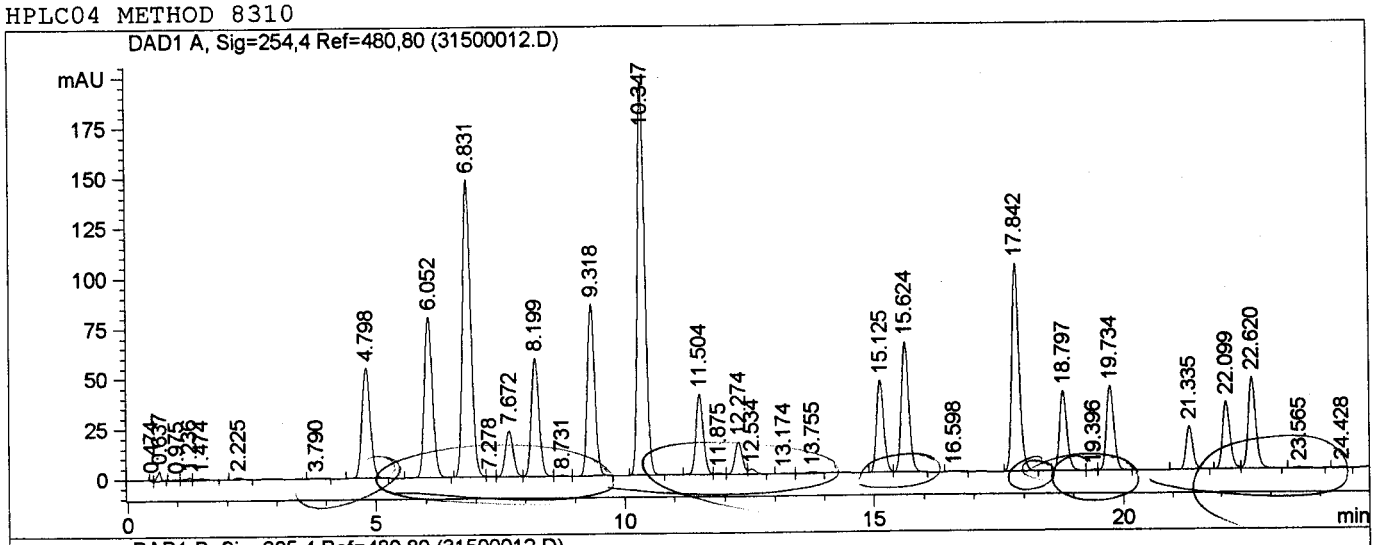
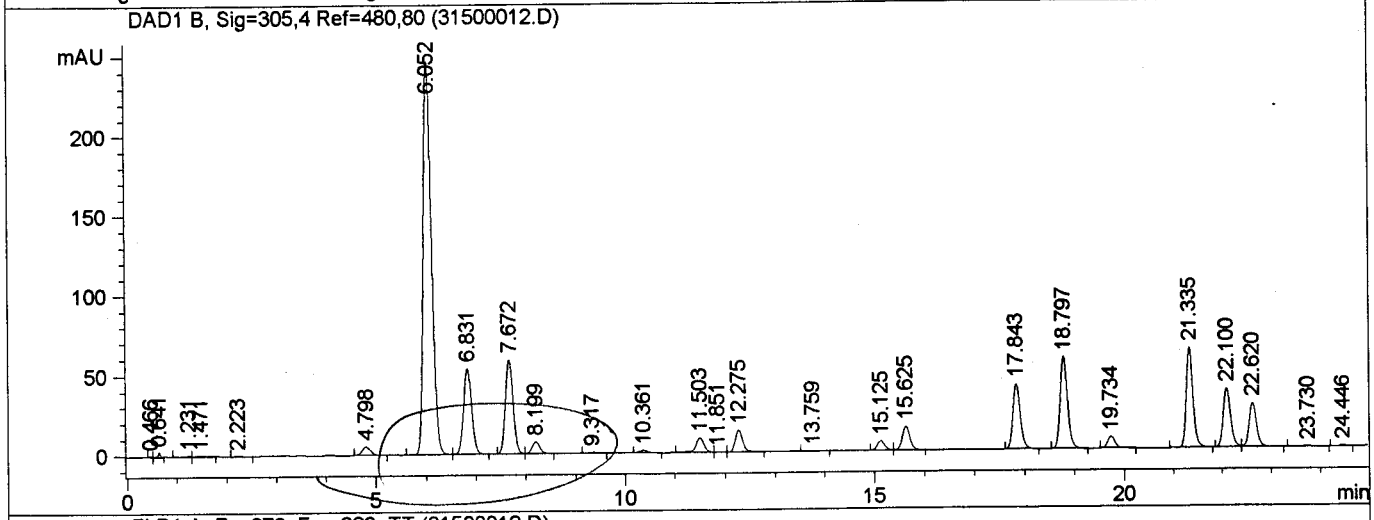
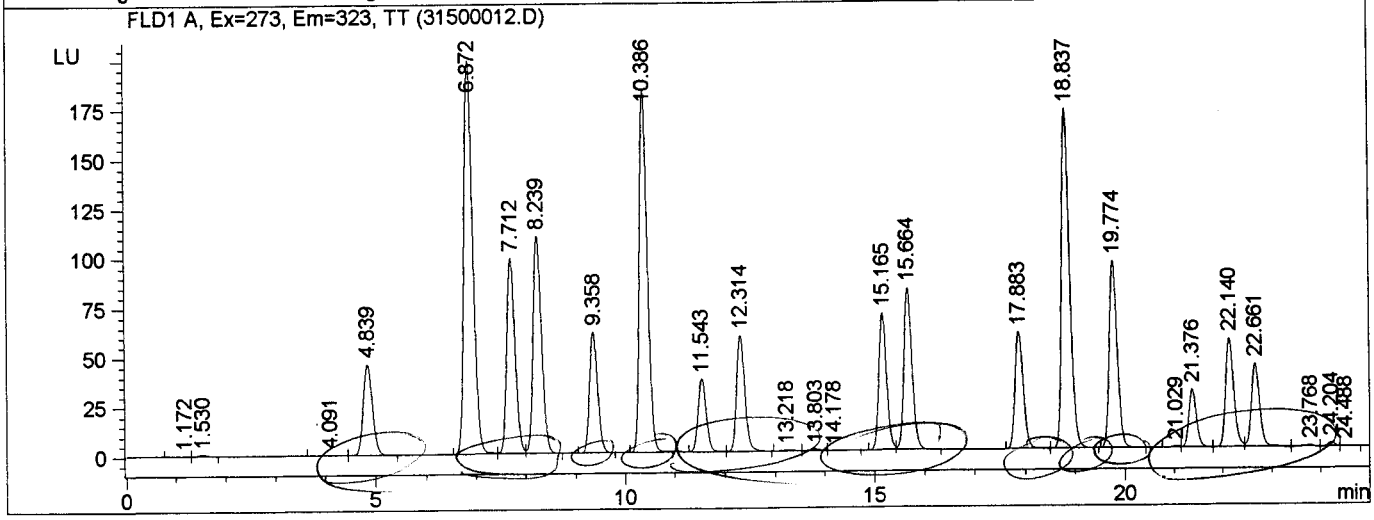
Injection Date : 11/11/2005 4:36:54 PM
Sample Name : ICAL,S1614
Acq. Operator : HPL
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\111105.S
Method : G:\HPLC4\METHODS\8310-279.M
Last changed : 10/6/2005 3:43:10 PM by HPL
HPLC04 METHOD 8310

Seq. Line : 12
Location : Vial 12
Inj : 1
Inj Volume : 10 µl







External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.798	BB	647.92590	75.77620	4.90974e4		Naphthalene
6.052	BP	914.91376	106.68185	9.76047e4		Acenaphthylene
6.831	BV	1681.13379	117.41358	1.97388e5		1-Methylnaphthalene (UV)
7.278	VV	5.24963	56.31698	295.64317		2-Methylnaphthalene
7.672	VV	250.17746	206.34568	5.16230e4		Acenaphthene
8.199	VV	630.32672	15.74564	9924.89767		Fluorene
9.318	VP	898.17737	5.62171	5049.28914		Phenanthrene
10.347	BB	2027.48340	2.68606	5445.93602		Anthracene
11.504	BV	416.99786	24.41423	1.01807e4		Fluoranthene
12.274	VV	170.79819	31.71372	5416.64596		Pyrene
15.125	BV	458.60211	11.56211	5302.41022		Benzo(a)anthracene
15.624	VB	667.24249	7.40838	4943.18470		Chrysene
17.842	BB	1067.14661	9.21482	9833.56607		Benzo(b)fluoranthene
18.797	BB	406.67978	12.30402	5003.79774		Benzo(k)fluoranthene
19.734	VB	434.84232	12.57220	5466.92541		Benzo(a)pyrene
21.335	BB	219.65565	46.55887	1.02269e4		Dibenz(a,h)anthracene
22.099	BV	363.46048	29.77688	1.08227e4		Benzo(g,h,i)perylene
22.620	VB	493.74603	10.61532	5241.27246		Indeno(1,2,3-cd)pyrene

Totals : 4.88867e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.052	BV	2789.97314	35.08817	9.78950e4		Acenaphthylene
6.831	VB	608.50012	325.85032	1.98280e5		1-Methylnaphthalene (UV)

Totals : 2.96175e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.839	VB	581.45532	89.82798	5.22310e4		Naphthalene
6.872	BV	2484.81372	85.61369	2.12734e5		1-Methylnaphthalene (F)
7.399		-	-	-		2-Methylnaphthalene
7.712	VV	1176.09302	46.86327	5.51156e4		Acenaphthene
8.239	VB	1287.53809	7.85043	1.01077e4		Fluorene
9.358	BB	701.78259	7.67948	5389.32199		Phenanthrene
10.386	BB	2072.21411	2.92260	6056.25380		Anthracene
11.543	BV	421.73749	25.17879	1.06188e4		Fluoranthene
12.314	VB	678.73724	8.35203	5668.83629		Pyrene
15.165	BV	759.86157	7.48411	5686.88802		Benzo(a)anthracene
15.664	VB	925.06207	5.61682	5195.91129		Chrysene

RetTime [min]	Type	Area LU	Amt/Area *s	Amount [ug/l]	Grp	Name
17.883	BV	670.50836	15.63304	1.04821e4		Benzo(b)fluoranthene
18.837	VB	1956.50098	2.71374	5309.43490		Benzo(k)fluoranthene
19.774	BB	1077.07507	5.43915	5858.37331		Benzo(a)pyrene
21.376	VV	323.55270	32.33177	1.04610e4		Dibenz(a,h)anthracene
22.140	VV	640.48981	17.28431	1.10704e4		Benzo(g,h,i)perylene
22.661	VV	493.75449	10.96018	5411.63807		Indeno(1,2,3-cd)pyrene

Totals : 4.17397e5

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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*** End of Report ***

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : HPLC04
Seqnum : 295454249015
Calnum : 295454249001
Standards: S1859

Run Name :
Filename : 31500015
Caldate : 11-NOV-2005

Injected : 11-NOV-2005 18:11
Caltype :

Analyte	Ch	SpkAmt	QuantAmt	Units	%D	Max	Flags
Naphthalene	1	5000.000	5429.003	ug/L	9	15	
Acenaphthylene	1	10000.00	11445.11	ug/L	14	15	
2-Methylnaphthalene	1	20000.00	19958.18	ug/L	0	15	
Acenaphthene	1	5000.000	5730.702	ug/L	15	15	
Fluorene	1	1000.000	1083.110	ug/L	8	15	
Phenanthrene	1	500.0000	527.0522	ug/L	5	15	
Anthracene	1	500.0000	541.6345	ug/L	8	15	
Fluoranthene	1	1000.000	1094.786	ug/L	9	15	
Pyrene	1	500.0000	544.7105	ug/L	9	15	
Benzo(a)anthracene	1	500.0000	539.7436	ug/L	8	15	
Chrysene	1	500.0000	541.2731	ug/L	8	15	
Benzo(b)fluoranthene	1	1000.000	1079.271	ug/L	8	15	
Benzo(k)fluoranthene	1	500.0000	541.4310	ug/L	8	15	
Benzo(a)pyrene	1	500.0000	528.6504	ug/L	6	15	
Dibenz(a,h)anthracene	1	1000.000	1083.391	ug/L	8	15	
Benzo(g,h,i)perylene	1	1000.000	1068.297	ug/L	7	15	
Indeno(1,2,3-cd)pyrene	1	500.0000	543.1120	ug/L	9	15	
Acenaphthylene	2	10000.00	10909.50	ug/L	9	15	
Naphthalene	3	5000.000	5415.454	ug/L	8	15	
2-Methylnaphthalene	3	20000.00	19883.89	ug/L	-1	15	
Acenaphthene	3	5000.000	5651.912	ug/L	13	15	
Fluorene	3	1000.000	1079.813	ug/L	8	15	
Phenanthrene	3	500.0000	519.7808	ug/L	4	15	
Anthracene	3	500.0000	542.4378	ug/L	8	15	
Fluoranthene	3	1000.000	1101.059	ug/L	10	15	
Pyrene	3	500.0000	543.9273	ug/L	9	15	
Benzo(a)anthracene	3	500.0000	536.5568	ug/L	7	15	
Chrysene	3	500.0000	537.3051	ug/L	7	15	
Benzo(b)fluoranthene	3	1000.000	1078.965	ug/L	8	15	
Benzo(k)fluoranthene	3	500.0000	544.3503	ug/L	9	15	
Benzo(a)pyrene	3	500.0000	526.8323	ug/L	5	15	
Dibenz(a,h)anthracene	3	1000.000	1078.278	ug/L	8	15	
Benzo(g,h,i)perylene	3	1000.000	1049.460	ug/L	5	15	
Indeno(1,2,3-cd)pyrene	3	500.0000	542.2205	ug/L	8	15	

ICV SATISFIES SOP. CJm

Mar 11/15/05

Data File G:\HPLC4\DATA\31500015.D

Sample Name: ~~IVC~~, S1859
ICV
14 NOV 2005

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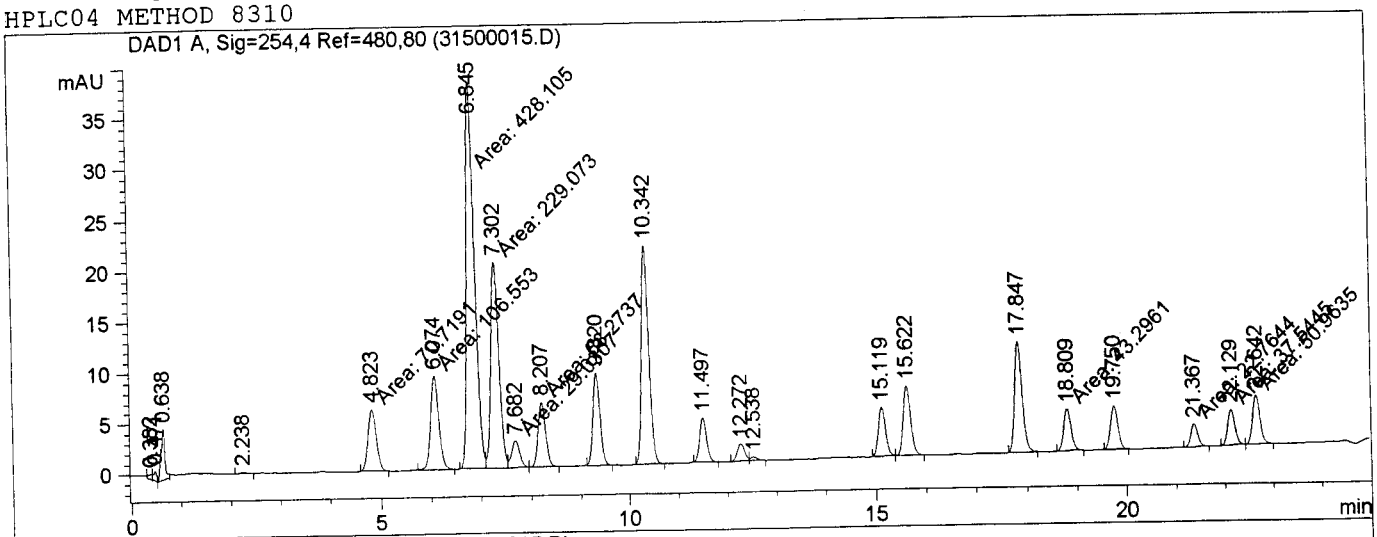
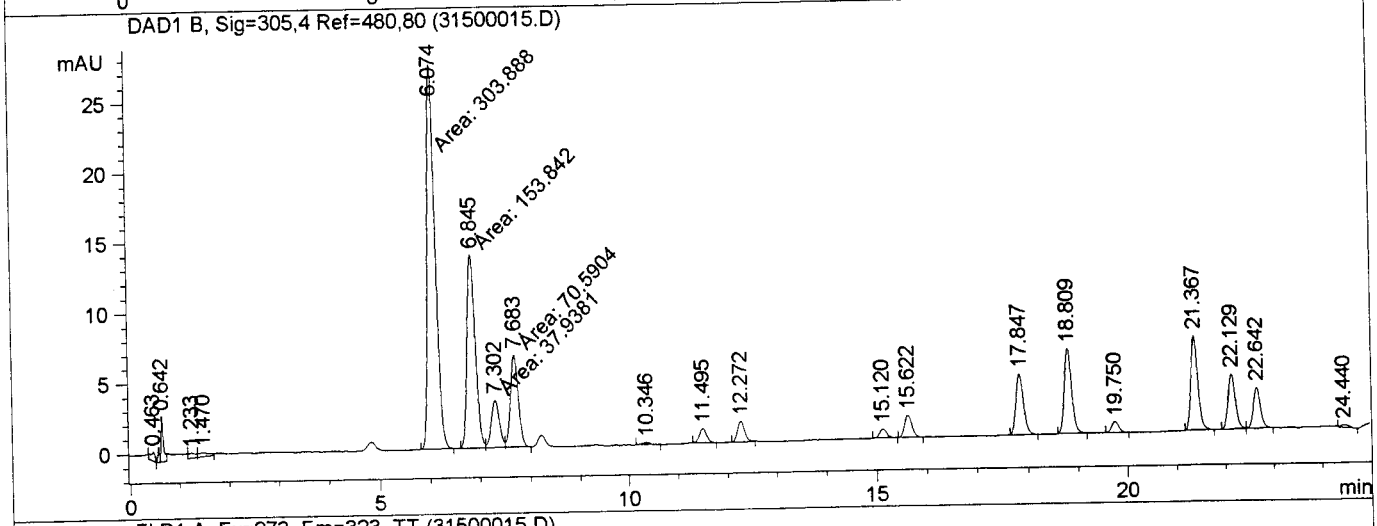
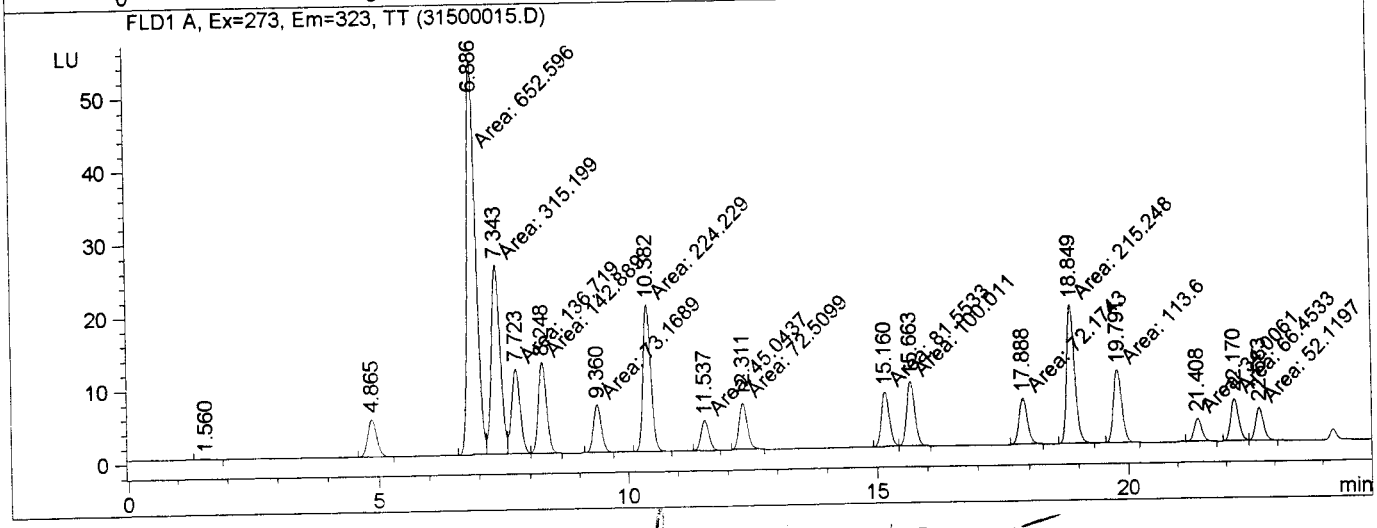
Injection Date : 11/11/2005 6:11:49 PM
Sample Name : ~~IVC~~, S1859
Acq. Operator : HPL ICV
Acq. Instrument : HPLC 4
Acq. Method : G:\HPLC4\METHODS\8310-279.M
Last changed : 10/6/2005 3:43:10 PM by HPL
Analysis Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL
HPLC04 METHOD 8310

Seq. Line : 15
Location : Vial 15
Inj : 1
Inj Volume : 10 µl







ICU SATISFIES SOP. 14 NOV 2005

HPLC 4 11/14/2005 4:28:38 PM HPL

External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.823	MM	70.71906	76.76860	5429.00305		Naphthalene
6.074	FM	106.55293	107.41243	1.14451e4		Acenaphthylene
6.845	MF	428.10513	118.51450	5.07367e4		1-Methylnaphthalene (UV)
7.302	FM	229.07306	87.12583	1.99582e4		2-Methylnaphthalene
7.682	FM	29.03069	197.40151	5730.70197		Acenaphthene
8.207	FM	68.27369	15.86423	1083.10978		Fluorene
9.320	BB	94.70956	5.56493	527.05223		Phenanthrene
10.342	BB	220.54137	2.45593	541.63448		Anthracene
11.497	BB	44.80906	24.43225	1094.78619		Fluoranthene
12.272	BV	18.00157	30.25906	544.71057		Pyrene
15.119	BV	48.89842	11.03806	539.74359		Benzo(a)anthracene
15.622	VB	71.82996	7.53548	541.27309		Chrysene
17.847	BB	114.57022	9.42017	1079.27109		Benzo(b)fluoranthene
18.809	MM	43.29613	12.50530	541.43109		Benzo(k)fluoranthene
19.750	BB	45.29744	11.67065	528.65038		Benzo(a)pyrene
21.367	MM	22.76437	47.59153	1083.39098		Dibenz(a,h)anthracene
22.129	MF	37.54449	28.45416	1068.29690		Benzo(g,h,i)perylene
22.642	FM	50.96354	10.65687	543.11193		Indeno(1,2,3-cd)pyrene

Totals : 1.03016e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.074	MM	303.88770	35.89979	1.09095e4		Acenaphthylene
6.845	MF	153.84215	328.45864	5.05308e4		1-Methylnaphthalene (UV)

Totals : 6.14403e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.865	BB	63.89994	84.74897	5415.45399		Naphthalene
6.886	MF	652.59564	77.70950	5.07129e4		1-Methylnaphthalene (F)
7.343	MF	315.19867	63.08369	1.98839e4		2-Methylnaphthalene
7.723	FM	136.71896	41.33963	5651.91172		Acenaphthene
8.248	FM	142.88892	7.55701	1079.81251		Fluorene
9.360	MM	73.16887	7.10385	519.78082		Phenanthrene
10.382	MM	224.22946	2.41912	542.43779		Anthracene
11.537	MM	45.04365	24.44426	1101.05871		Fluoranthene
12.311	MM	72.50991	7.50142	543.92732		Pyrene
15.160	MF	81.55329	6.57922	536.55680		Benzo(a)anthracene
15.663	FM	100.01083	5.37247	537.30512		Chrysene

Data File G:\HPLC4\DATA\31500015.D

Sample Name: ~~IVC,~~ S1859
ICV

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.888	MM	72.17432	14.94944	1078.96559		Benzo(b)fluoranthene
18.849	MM	215.24835	2.52894	544.35032		Benzo(k)fluoranthene
19.791	MM	113.59962	4.63762	526.83233		Benzo(a)pyrene
21.408	FM	34.00614	31.70833	1078.27800		Dibenz(a,h)anthracene
22.170	MF	66.45330	15.79245	1049.46037		Benzo(g,h,i)perylene
22.683	MF	52.11966	10.40338	542.22048		Indeno(1,2,3-cd)pyrene
Totals :				9.13451e4		

Results obtained with enhanced integrator!

*** End of Report ***

Data File G:\HPLC4\DATA\31500015.D

Sample Name: ~~IVC~~, S1859

ICU 14NOV2005

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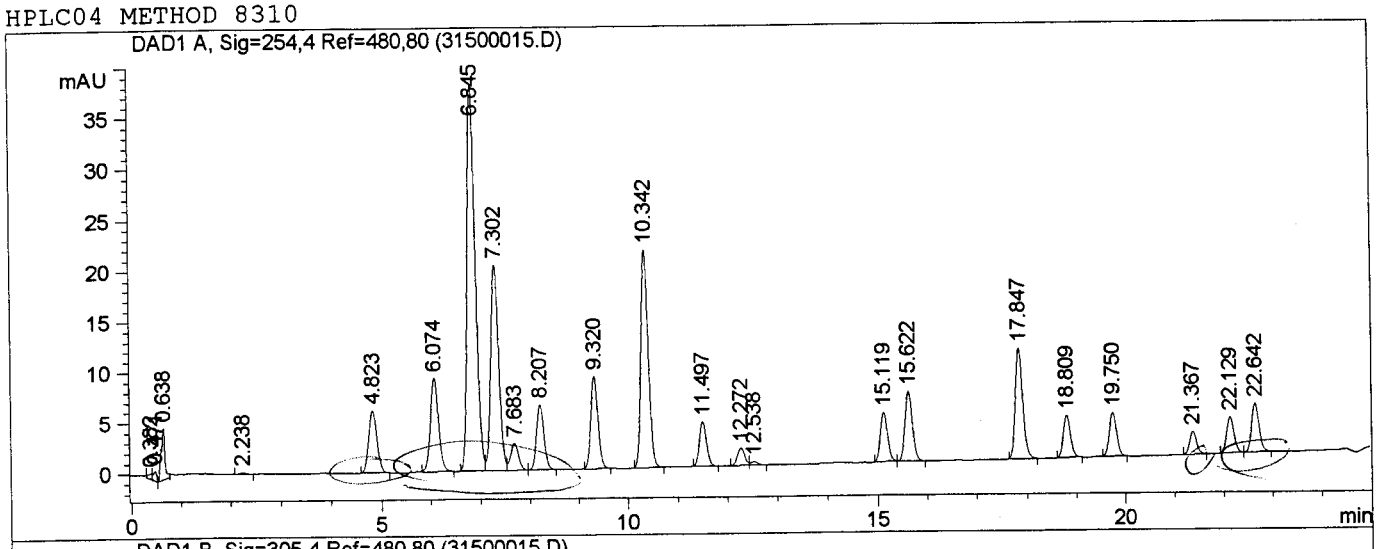
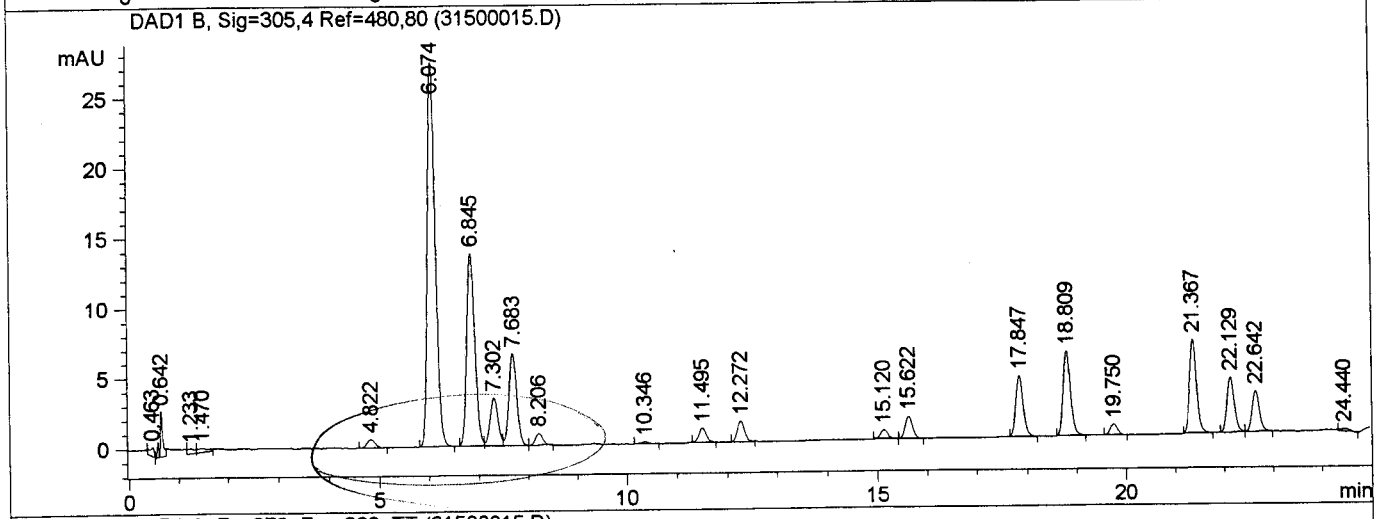
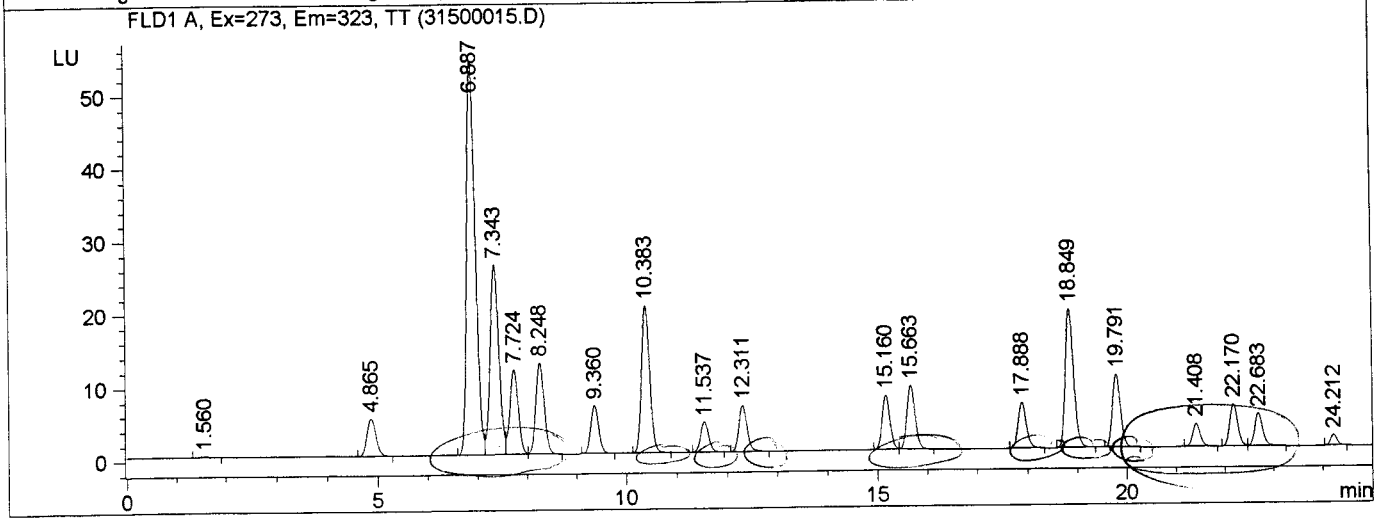
Injection Date : 11/11/2005 6:11:49 PM
Sample Name : ~~IVC~~, S1859
Acq. Operator : HPL ICU
Acq. Instrument : HPLC 4
Acq. Method : G:\HPLC4\METHODS\8310-279.M
Last changed : 10/6/2005 3:43:10 PM by HPL
Analysis Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL

Seq. Line : 15
Location : Vial 15
Inj : 1
Inj Volume : 10 µl

HPLC04 METHOD 8310







ICV

External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.823	BB	71.20418	76.77098	5466.41477		Naphthalene
6.074	BP	105.77290	107.39759	1.13598e4		Acenaphthylene
6.845	BV	427.91833	118.51423	5.07144e4		1-Methylnaphthalene (UV)
7.302	VV	229.16971	87.12590	1.99666e4		2-Methylnaphthalene
7.683	VV	29.39861	197.43842	5804.41603		Acenaphthene
8.207	VB	68.62818	15.86445	1088.74840		Fluorene
9.320	BB	94.70956	5.56493	527.05223		Phenanthrene
10.342	BB	220.54137	2.45593	541.63448		Anthracene
11.497	BB	44.80906	24.43225	1094.78619		Fluoranthene
12.272	BV	18.00157	30.25906	544.71057		Pyrene
15.119	BV	48.89842	11.03806	539.74359		Benzo(a)anthracene
15.622	VB	71.82996	7.53548	541.27309		Chrysene
17.847	BB	114.57022	9.42017	1079.27109		Benzo(b)fluoranthene
18.809	BB	42.82232	12.50761	535.60502		Benzo(k)fluoranthene
19.750	BB	45.29744	11.67065	528.65038		Benzo(a)pyrene
21.367	BP	22.40412	47.61197	1066.70412		Dibenz(a,h)anthracene
22.129	BV	37.21112	28.45829	1058.96487		Benzo(g,h,i)perylene
22.642	VB	50.79019	10.65746	541.29424		Indeno(1,2,3-cd)pyrene

Totals : 1.03000e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.074	BB	304.49255	35.89974	1.09312e4		Acenaphthylene
6.845	BV	154.18639	328.46046	5.06441e4		1-Methylnaphthalene (UV)

Totals : 6.15753e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.865	BB	63.89994	84.74897	5415.45399		Naphthalene
6.887	BV	652.01135	77.70887	5.06671e4		1-Methylnaphthalene (F)
7.343	VV	315.16345	63.08367	1.98817e4		2-Methylnaphthalene
7.724	VV	137.49896	41.34233	5684.52768		Acenaphthene
8.248	VB	143.32822	7.55739	1083.18740		Fluorene
9.360	BB	73.95461	7.10513	525.45697		Phenanthrene
10.383	BB	225.40056	2.41918	545.28395		Anthracene
11.537	BB	45.91750	24.44539	1122.47141		Fluoranthene
12.311	BB	73.37619	7.50177	550.45165		Pyrene
15.160	BV	81.46244	6.57920	535.95756		Benzo(a)anthracene
15.663	VB	100.24127	5.37259	538.55537		Chrysene

Data File G:\HPLC4\DATA\31500015.D

Sample Name: ~~IVC~~, S1859
ICV

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.888	BB	72.39547	14.94945	1082.27273		Benzo(b)fluoranthene
18.849	BB	215.84348	2.52903	545.87525		Benzo(k)fluoranthene
19.791	BB	114.32867	4.63784	530.23827		Benzo(a)pyrene
21.408	VB	34.04706	31.70781	1079.55781		Dibenz(a,h)anthracene
22.170	BV	66.46594	15.79242	1049.65840		Benzo(g,h,i)perylene
22.683	VB	52.61345	10.40227	547.29920		Indeno(1,2,3-cd)pyrene
Totals :				9.13850e4		

Results obtained with enhanced integrator!

*** End of Report ***

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185558 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: L IDF : 1.0
Seqnum : 296115859002 File : 08000002 Time : 21-MAR-2006 11:30
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2256

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0143	2500	2731	ug/L	9	15	
Acenaphthylene	1	0.0093	0.0097	5000	5073	ug/L	1	15	
Acenaphthene	1	0.0050	0.0055	2500	2658	ug/L	6	15	
Fluorene	1	0.0629	0.0658	500.0	520.2	ug/L	4	15	
Phenanthrene	1	0.1797	0.1885	250.0	261.6	ug/L	5	15	
Anthracene	1	0.4065	0.4174	250.0	254.4	ug/L	2	15	
Fluoranthene	1	0.0408	0.0423	500.0	518.9	ug/L	4	15	
Pyrene	1	0.0329	0.0330	250.0	254.5	ug/L	2	15	
Benzo(a)anthracene	1	0.0901	0.0942	250.0	263.2	ug/L	5	15	
Chrysene	1	0.1322	0.1382	250.0	261.8	ug/L	5	15	
Benzo(b)fluoranthene	1	0.1049	0.1109	500.0	525.0	ug/L	5	15	
Benzo(k)fluoranthene	1	0.0796	0.0836	250.0	266.0	ug/L	6	15	
Benzo(a)pyrene	1	0.0842	0.0895	250.0	265.4	ug/L	6	15	
Dibenz(a,h)anthracene	1	0.0205	0.0212	500.0	520.8	ug/L	4	15	
Benzo(g,h,i)perylene	1	0.0349	0.0354	500.0	512.9	ug/L	3	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.0996	250.0	269.9	ug/L	8	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0083	50000	49380	ug/L	-1	15	
Acenaphthylene	2	0.0277	0.0295	5000	5300	ug/L	6	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	48700	ug/L	-3	15	
Naphthalene	3	0.0118	0.0120	2500	2482	ug/L	-1	15	
Acenaphthene	3	0.0242	0.0245	2500	2492	ug/L	0	15	
Fluorene	3	0.1330	0.1352	500.0	501.5	ug/L	0	15	
Phenanthrene	3	0.1408	0.1435	250.0	250.3	ug/L	0	15	
Anthracene	3	0.4129	0.4135	250.0	248.7	ug/L	-1	15	
Fluoranthene	3	0.0409	0.0407	500.0	496.6	ug/L	-1	15	
Pyrene	3	0.1339	0.1317	250.0	245.7	ug/L	-2	15	
Benzo(a)anthracene	3	0.1518	0.1534	250.0	251.6	ug/L	1	15	
Chrysene	3	0.1854	0.1906	250.0	253.2	ug/L	1	15	
Benzo(b)fluoranthene	3	0.0668	0.0672	500.0	501.8	ug/L	0	15	
Benzo(k)fluoranthene	3	0.3937	0.4049	250.0	252.2	ug/L	1	15	
Benzo(a)pyrene	3	0.2148	0.2169	250.0	249.4	ug/L	0	15	
Dibenz(a,h)anthracene	3	0.0311	0.0314	500.0	505.4	ug/L	1	15	
Benzo(g,h,i)perylene	3	0.0629	0.0599	500.0	477.8	ug/L	-4	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.0944	250.0	248.9	ug/L	0	15	
1-Methylnaphthalene (F)	3	0.0131	0.0122	50000	47280	ug/L	-5	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185558 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: M IDF : 1.0
Seqnum : 296115859016 File : 08000016 Time : 21-MAR-2006 18:53
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2255

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0137	5000	5268	ug/L	5	15	
Acenaphthylene	1	0.0093	0.0097	10000	10380	ug/L	4	15	
Acenaphthene	1	0.0050	0.0053	5000	5217	ug/L	4	15	
Fluorene	1	0.0629	0.0654	1000	1037	ug/L	4	15	
Phenanthrene	1	0.1797	0.1864	500.0	518.7	ug/L	4	15	
Anthracene	1	0.4065	0.4069	500.0	499.4	ug/L	0	15	
Fluoranthene	1	0.0408	0.0417	1000	1018	ug/L	2	15	
Pyrene	1	0.0329	0.0324	500.0	490.6	ug/L	-2	15	
Benzo(a)anthracene	1	0.0901	0.0934	500.0	515.6	ug/L	3	15	
Chrysene	1	0.1322	0.1406	500.0	529.7	ug/L	6	15	
Benzo(b)fluoranthene	1	0.1049	0.1105	1000	1041	ug/L	4	15	
Benzo(k)fluoranthene	1	0.0796	0.0838	500.0	524.2	ug/L	5	15	
Benzo(a)pyrene	1	0.0842	0.0887	500.0	517.5	ug/L	4	15	
Dibenz(a,h)anthracene	1	0.0205	0.0216	1000	1028	ug/L	3	15	
Benzo(g,h,i)perylene	1	0.0349	0.0347	1000	988.4	ug/L	-1	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.0970	500.0	517.3	ug/L	3	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0082	50000	48790	ug/L	-2	15	
Acenaphthylene	2	0.0277	0.0294	10000	10540	ug/L	5	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0029	50000	48340	ug/L	-3	15	
Naphthalene	3	0.0118	0.0116	5000	4917	ug/L	-2	15	
Acenaphthene	3	0.0242	0.0235	5000	4858	ug/L	-3	15	
Fluorene	3	0.1330	0.1328	1000	1002	ug/L	0	15	
Phenanthrene	3	0.1408	0.1398	500.0	496.3	ug/L	-1	15	
Anthracene	3	0.4129	0.4067	500.0	491.7	ug/L	-2	15	
Fluoranthene	3	0.0409	0.0404	1000	988.0	ug/L	-1	15	
Pyrene	3	0.1339	0.1274	500.0	477.5	ug/L	-4	15	
Benzo(a)anthracene	3	0.1518	0.1495	500.0	491.8	ug/L	-2	15	
Chrysene	3	0.1854	0.1872	500.0	502.5	ug/L	0	15	
Benzo(b)fluoranthene	3	0.0668	0.0669	1000	1001	ug/L	0	15	
Benzo(k)fluoranthene	3	0.3937	0.3999	500.0	505.1	ug/L	1	15	
Benzo(a)pyrene	3	0.2148	0.2147	500.0	497.5	ug/L	0	15	
Dibenz(a,h)anthracene	3	0.0311	0.0314	1000	997.6	ug/L	0	15	
Benzo(g,h,i)perylene	3	0.0629	0.0603	1000	952.8	ug/L	-5	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.0949	500.0	494.0	ug/L	-1	15	
1-Methylnaphthalene (F)	3	0.0131	0.0118	50000	45890	ug/L	-8	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185558 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: H IDF : 1.0
Seqnum : 296115859028 File : 08000028 Time : 22-MAR-2006 01:12
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2954

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0130	10000	9988	ug/L	0	15	
Acenaphthylene	1	0.0093	0.0092	20000	19850	ug/L	-1	15	
Acenaphthene	1	0.0050	0.0050	10000	10020	ug/L	0	15	
Fluorene	1	0.0629	0.0621	2000	1971	ug/L	-1	15	
Phenanthrene	1	0.1797	0.1766	1000	984.1	ug/L	-2	15	
Anthracene	1	0.4065	0.3872	1000	953.6	ug/L	-5	15	
Fluoranthene	1	0.0408	0.0400	2000	1953	ug/L	-2	15	
Pyrene	1	0.0329	0.0315	1000	948.0	ug/L	-5	15	
Benzo(a)anthracene	1	0.0901	0.0898	1000	986.1	ug/L	-1	15	
Chrysene	1	0.1322	0.1332	1000	1002	ug/L	0	15	
Benzo(b)fluoranthene	1	0.1049	0.1053	2000	1980	ug/L	-1	15	
Benzo(k)fluoranthene	1	0.0796	0.0813	1000	1009	ug/L	1	15	
Benzo(a)pyrene	1	0.0842	0.0828	1000	959.8	ug/L	-4	15	
Dibenz(a,h)anthracene	1	0.0205	0.0213	2000	2001	ug/L	0	15	
Benzo(g,h,i)perylene	1	0.0349	0.0334	2000	1888	ug/L	-6	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.0941	1000	995.1	ug/L	0	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0083	50000	49460	ug/L	-1	15	
Acenaphthylene	2	0.0277	0.0278	20000	19970	ug/L	0	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	48940	ug/L	-2	15	
Naphthalene	3	0.0118	0.0108	10000	9218	ug/L	-8	15	
Acenaphthene	3	0.0242	0.0224	10000	9295	ug/L	-7	15	
Fluorene	3	0.1330	0.1266	2000	1927	ug/L	-4	15	
Phenanthrene	3	0.1408	0.1309	1000	937.0	ug/L	-6	15	
Anthracene	3	0.4129	0.3860	1000	935.5	ug/L	-6	15	
Fluoranthene	3	0.0409	0.0381	2000	1862	ug/L	-7	15	
Pyrene	3	0.1339	0.1182	1000	888.3	ug/L	-11	15	
Benzo(a)anthracene	3	0.1518	0.1408	1000	927.5	ug/L	-7	15	
Chrysene	3	0.1854	0.1747	1000	942.4	ug/L	-6	15	
Benzo(b)fluoranthene	3	0.0668	0.0630	2000	1885	ug/L	-6	15	
Benzo(k)fluoranthene	3	0.3937	0.3846	1000	978.3	ug/L	-2	15	
Benzo(a)pyrene	3	0.2148	0.1965	1000	914.1	ug/L	-9	15	
Dibenz(a,h)anthracene	3	0.0311	0.0304	2000	1914	ug/L	-4	15	
Benzo(g,h,i)perylene	3	0.0629	0.0560	2000	1763	ug/L	-12	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.0916	1000	948.1	ug/L	-5	15	
1-Methylnaphthalene (F)	3	0.0131	0.0118	50000	45680	ug/L	-9	15	

SEQUENCE SUMMARY FOR 185558 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 295454249 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 11-NOV-2005
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	31500001	X	PRIMER - 315			11-NOV-2005 10:49	1.0						
002	31500002	X	PRIMER			11-NOV-2005 11:20	1.0						
003	31500003	X	IB - 315			11-NOV-2005 11:52	1.0						
004	31500004	X	IB			11-NOV-2005 12:24	1.0						
005	31500005	X	IB			11-NOV-2005 12:55	1.0						
006	31500006	ICAL				11-NOV-2005 13:27	1.0					1	
007	31500007	ICAL				11-NOV-2005 13:58	1.0					2	
008	31500008	ICAL				11-NOV-2005 14:30	1.0					3	
009	31500009	ICAL				11-NOV-2005 15:02	1.0					4	
010	31500010	ICAL				11-NOV-2005 15:33	1.0					5	
011	31500011	ICAL				11-NOV-2005 16:05	1.0					6	
012	31500012	ICAL				11-NOV-2005 16:36	1.0					7	
013	31500013	X	IB			11-NOV-2005 17:08	1.0						
014	31500014	X	IB			11-NOV-2005 17:40	1.0						
015	31500015	ICV				11-NOV-2005 18:11	1.0		10			8	439
016	31500016	X	ICV			11-NOV-2005 18:43	1.0					8	
017	31500017	X	IB			11-NOV-2005 19:14	1.0						

Stds used: 1=S1620 2=S1619 3=S1618 4=S1617 5=S1616 6=S1615 7=S1614 8=S1859

SEQUENCE SUMMARY FOR 185558 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296115859 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 21-MAR-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	08000001	X	IB - 080			21-MAR-2006 10:59	1.0						
002	08000002	CCV	L			21-MAR-2006 11:30	1.0	1.0			10	1	
003	08000003	X	CCV			21-MAR-2006 12:02	1.0					1	
004	08000004	X	IB			21-MAR-2006 12:33	1.0						
005	08000005	BS	QC332069	111439	Water	21-MAR-2006 13:05	1.0	0.002			10		
006	08000006	BSD	QC332070	111439	Water	21-MAR-2006 13:37	1.0	0.002			10		
007	08000007	BLANK	QC332068	111439	Water	21-MAR-2006 14:08	1.0	0.002			10		
008	08000008	SAMPLE	185511-012	111439	Water	21-MAR-2006 14:40	1.0	0.001942			10		
009	08000009	SAMPLE	185511-013	111439	Water	21-MAR-2006 15:11	1.0	0.001923			10		
010	08000010	SAMPLE	185558-011	111439	Water	21-MAR-2006 15:43	1.0	0.001905			10		
011	08000011	SAMPLE	185558-012	111439	Water	21-MAR-2006 16:15	1.0	0.001887			10		
012	08000012	SAMPLE	185558-013	111439	Water	21-MAR-2006 16:46	1.0	0.001905			10		
013	08000013	SAMPLE	185558-014	111439	Water	21-MAR-2006 17:18	1.0	0.001887			10		
014	08000014	SAMPLE	185558-015	111439	Water	21-MAR-2006 17:50	1.0	0.001887			10		
015	08000015	X	IB			21-MAR-2006 18:21	1.0						440
016	08000016	CCV	M			21-MAR-2006 18:53	1.0	1.0			10	2	
017	08000017	X	CCV			21-MAR-2006 19:25	1.0					2	
018	08000018	X	IB			21-MAR-2006 19:56	1.0						
019	08000019	SAMPLE	185558-016	111439	Water	21-MAR-2006 20:28	1.0	0.001887			10		
020	08000020	SAMPLE	185586-001	111439	Water	21-MAR-2006 20:59	1.0	0.001887			10		
021	08000021	SAMPLE	185586-002	111439	Water	21-MAR-2006 21:31	1.0	0.001887			10		
022	08000022	SAMPLE	185586-003	111439	Water	21-MAR-2006 22:02	1.0	0.001887			10		
023	08000023	SAMPLE	185586-009	111439	Water	21-MAR-2006 22:34	1.0	0.001887			10		
024	08000024	SAMPLE	185545-003	111395	Soil	21-MAR-2006 23:06	5.0	0.06693		2	10		
025	08000025	SAMPLE	185545-001	111395	Soil	21-MAR-2006 23:37	5.0	0.06583		2	10		
026	08000026	X	IB			22-MAR-2006 00:09	1.0						
027	08000027	X	IB			22-MAR-2006 00:40	1.0						
028	08000028	CCV	H			22-MAR-2006 01:12	1.0	1.0			10	3	
029	08000029	X	CCV			22-MAR-2006 01:43	1.0					3	
030	08000030	X	IB			22-MAR-2006 02:15	1.0						

Stds used: 1=S2256 2=S2255 3=S2954

REPORTING SUMMARY FOR 185558 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185558-011	Naphthalene	HPLC04	1	03/21/06 15:43
185558-011	Acenaphthylene	HPLC04	1	03/21/06 15:43
185558-011	Acenaphthene	HPLC04	1	03/21/06 15:43
185558-011	Fluorene	HPLC04	1	03/21/06 15:43
185558-011	Phenanthrene	HPLC04	3	03/21/06 15:43
185558-011	Anthracene	HPLC04	3	03/21/06 15:43
185558-011	Fluoranthene	HPLC04	3	03/21/06 15:43
185558-011	Pyrene	HPLC04	3	03/21/06 15:43
185558-011	Benzo(a)anthracene	HPLC04	3	03/21/06 15:43
185558-011	Chrysene	HPLC04	3	03/21/06 15:43
185558-011	Benzo(b)fluoranthene	HPLC04	3	03/21/06 15:43
185558-011	Benzo(k)fluoranthene	HPLC04	3	03/21/06 15:43
185558-011	Benzo(a)pyrene	HPLC04	3	03/21/06 15:43
185558-011	Dibenz(a,h)anthracene	HPLC04	3	03/21/06 15:43
185558-011	Benzo(g,h,i)perylene	HPLC04	3	03/21/06 15:43
185558-011	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/21/06 15:43
185558-011	1-Methylnaphthalene (UV)	HPLC04	1	03/21/06 15:43
185558-011	1-Methylnaphthalene (F)	HPLC04	3	03/21/06 15:43
185558-012	Naphthalene	HPLC04	1	03/21/06 16:15
185558-012	Acenaphthylene	HPLC04	1	03/21/06 16:15
185558-012	Acenaphthene	HPLC04	1	03/21/06 16:15
185558-012	Fluorene	HPLC04	1	03/21/06 16:15
185558-012	Phenanthrene	HPLC04	3	03/21/06 16:15
185558-012	Anthracene	HPLC04	3	03/21/06 16:15
185558-012	Fluoranthene	HPLC04	3	03/21/06 16:15
185558-012	Pyrene	HPLC04	3	03/21/06 16:15
185558-012	Benzo(a)anthracene	HPLC04	3	03/21/06 16:15
185558-012	Chrysene	HPLC04	3	03/21/06 16:15
185558-012	Benzo(b)fluoranthene	HPLC04	3	03/21/06 16:15
185558-012	Benzo(k)fluoranthene	HPLC04	3	03/21/06 16:15
185558-012	Benzo(a)pyrene	HPLC04	3	03/21/06 16:15
185558-012	Dibenz(a,h)anthracene	HPLC04	3	03/21/06 16:15
185558-012	Benzo(g,h,i)perylene	HPLC04	3	03/21/06 16:15
185558-012	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/21/06 16:15
185558-012	1-Methylnaphthalene (UV)	HPLC04	1	03/21/06 16:15
185558-012	1-Methylnaphthalene (F)	HPLC04	3	03/21/06 16:15
185558-013	Naphthalene	HPLC04	1	03/21/06 16:46
185558-013	Acenaphthylene	HPLC04	1	03/21/06 16:46
185558-013	Acenaphthene	HPLC04	1	03/21/06 16:46
185558-013	Fluorene	HPLC04	1	03/21/06 16:46
185558-013	Phenanthrene	HPLC04	3	03/21/06 16:46
185558-013	Anthracene	HPLC04	3	03/21/06 16:46
185558-013	Fluoranthene	HPLC04	3	03/21/06 16:46
185558-013	Pyrene	HPLC04	3	03/21/06 16:46
185558-013	Benzo(a)anthracene	HPLC04	3	03/21/06 16:46
185558-013	Chrysene	HPLC04	3	03/21/06 16:46
185558-013	Benzo(b)fluoranthene	HPLC04	3	03/21/06 16:46
185558-013	Benzo(k)fluoranthene	HPLC04	3	03/21/06 16:46
185558-013	Benzo(a)pyrene	HPLC04	3	03/21/06 16:46
185558-013	Dibenz(a,h)anthracene	HPLC04	3	03/21/06 16:46
185558-013	Benzo(g,h,i)perylene	HPLC04	3	03/21/06 16:46
185558-013	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/21/06 16:46

REPORTING SUMMARY FOR 185558 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185558-013	1-Methylnaphthalene (UV)	HPLC04	1	03/21/06 16:46
185558-013	1-Methylnaphthalene (F)	HPLC04	3	03/21/06 16:46
185558-014	Naphthalene	HPLC04	1	03/21/06 17:18
185558-014	Acenaphthylene	HPLC04	1	03/21/06 17:18
185558-014	Acenaphthene	HPLC04	1	03/21/06 17:18
185558-014	Fluorene	HPLC04	1	03/21/06 17:18
185558-014	Phenanthrene	HPLC04	3	03/21/06 17:18
185558-014	Anthracene	HPLC04	3	03/21/06 17:18
185558-014	Fluoranthene	HPLC04	3	03/21/06 17:18
185558-014	Pyrene	HPLC04	3	03/21/06 17:18
185558-014	Benzo(a)anthracene	HPLC04	3	03/21/06 17:18
185558-014	Chrysene	HPLC04	3	03/21/06 17:18
185558-014	Benzo(b)fluoranthene	HPLC04	3	03/21/06 17:18
185558-014	Benzo(k)fluoranthene	HPLC04	3	03/21/06 17:18
185558-014	Benzo(a)pyrene	HPLC04	3	03/21/06 17:18
185558-014	Dibenz(a,h)anthracene	HPLC04	3	03/21/06 17:18
185558-014	Benzo(g,h,i)perylene	HPLC04	3	03/21/06 17:18
185558-014	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/21/06 17:18
185558-014	1-Methylnaphthalene (UV)	HPLC04	1	03/21/06 17:18
185558-014	1-Methylnaphthalene (F)	HPLC04	3	03/21/06 17:18
185558-015	Naphthalene	HPLC04	1	03/21/06 17:50
185558-015	Acenaphthylene	HPLC04	1	03/21/06 17:50
185558-015	Acenaphthene	HPLC04	1	03/21/06 17:50
185558-015	Fluorene	HPLC04	1	03/21/06 17:50
185558-015	Phenanthrene	HPLC04	3	03/21/06 17:50
185558-015	Anthracene	HPLC04	3	03/21/06 17:50
185558-015	Fluoranthene	HPLC04	3	03/21/06 17:50
185558-015	Pyrene	HPLC04	3	03/21/06 17:50
185558-015	Benzo(a)anthracene	HPLC04	3	03/21/06 17:50
185558-015	Chrysene	HPLC04	3	03/21/06 17:50
185558-015	Benzo(b)fluoranthene	HPLC04	3	03/21/06 17:50
185558-015	Benzo(k)fluoranthene	HPLC04	3	03/21/06 17:50
185558-015	Benzo(a)pyrene	HPLC04	3	03/21/06 17:50
185558-015	Dibenz(a,h)anthracene	HPLC04	3	03/21/06 17:50
185558-015	Benzo(g,h,i)perylene	HPLC04	3	03/21/06 17:50
185558-015	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/21/06 17:50
185558-015	1-Methylnaphthalene (UV)	HPLC04	1	03/21/06 17:50
185558-015	1-Methylnaphthalene (F)	HPLC04	3	03/21/06 17:50
185558-016	Naphthalene	HPLC04	1	03/21/06 20:28
185558-016	Acenaphthylene	HPLC04	1	03/21/06 20:28
185558-016	Acenaphthene	HPLC04	1	03/21/06 20:28
185558-016	Fluorene	HPLC04	1	03/21/06 20:28
185558-016	Phenanthrene	HPLC04	3	03/21/06 20:28
185558-016	Anthracene	HPLC04	3	03/21/06 20:28
185558-016	Fluoranthene	HPLC04	3	03/21/06 20:28
185558-016	Pyrene	HPLC04	3	03/21/06 20:28
185558-016	Benzo(a)anthracene	HPLC04	3	03/21/06 20:28
185558-016	Chrysene	HPLC04	3	03/21/06 20:28
185558-016	Benzo(b)fluoranthene	HPLC04	3	03/21/06 20:28
185558-016	Benzo(k)fluoranthene	HPLC04	3	03/21/06 20:28
185558-016	Benzo(a)pyrene	HPLC04	3	03/21/06 20:28

REPORTING SUMMARY FOR 185558 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185558-016	Dibenz(a,h)anthracene	HPLC04	3	03/21/06 20:28
185558-016	Benzo(g,h,i)perylene	HPLC04	3	03/21/06 20:28
185558-016	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/21/06 20:28
185558-016	1-Methylnaphthalene (UV)	HPLC04	1	03/21/06 20:28
185558-016	1-Methylnaphthalene (F)	HPLC04	3	03/21/06 20:28
QC332068	Naphthalene	HPLC04	1	03/21/06 14:08
QC332068	Acenaphthylene	HPLC04	1	03/21/06 14:08
QC332068	Acenaphthene	HPLC04	1	03/21/06 14:08
QC332068	Fluorene	HPLC04	1	03/21/06 14:08
QC332068	Phenanthrene	HPLC04	3	03/21/06 14:08
QC332068	Anthracene	HPLC04	3	03/21/06 14:08
QC332068	Fluoranthene	HPLC04	3	03/21/06 14:08
QC332068	Pyrene	HPLC04	3	03/21/06 14:08
QC332068	Benzo(a)anthracene	HPLC04	3	03/21/06 14:08
QC332068	Chrysene	HPLC04	3	03/21/06 14:08
QC332068	Benzo(b)fluoranthene	HPLC04	3	03/21/06 14:08
QC332068	Benzo(k)fluoranthene	HPLC04	3	03/21/06 14:08
QC332068	Benzo(a)pyrene	HPLC04	3	03/21/06 14:08
QC332068	Dibenz(a,h)anthracene	HPLC04	3	03/21/06 14:08
QC332068	Benzo(g,h,i)perylene	HPLC04	3	03/21/06 14:08
QC332068	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/21/06 14:08
QC332068	1-Methylnaphthalene (UV)	HPLC04	1	03/21/06 14:08
QC332068	1-Methylnaphthalene (F)	HPLC04	3	03/21/06 14:08
QC332069	Naphthalene	HPLC04	1	03/21/06 13:05
QC332069	Fluorene	HPLC04	1	03/21/06 13:05
QC332069	Pyrene	HPLC04	3	03/21/06 13:05
QC332069	Benzo(a)pyrene	HPLC04	3	03/21/06 13:05
QC332069	1-Methylnaphthalene (UV)	HPLC04	1	03/21/06 13:05
QC332069	1-Methylnaphthalene (F)	HPLC04	3	03/21/06 13:05
QC332070	Naphthalene	HPLC04	1	03/21/06 13:37
QC332070	Fluorene	HPLC04	1	03/21/06 13:37
QC332070	Pyrene	HPLC04	3	03/21/06 13:37
QC332070	Benzo(a)pyrene	HPLC04	3	03/21/06 13:37
QC332070	1-Methylnaphthalene (UV)	HPLC04	1	03/21/06 13:37
QC332070	1-Methylnaphthalene (F)	HPLC04	3	03/21/06 13:37

Curtis & Tompkins Laboratories **Sample Preparation Summary** **20-MAR-2006 17:26**

Batch Number : 111439
Date Extracted: 19-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : 8310
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2841M
Spike #2 ID : S2884B
Spike #3 ID :
SOP Version : 8310w_rv6

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185511-012		Treadwell & Rollo	Water	1030	mL	2	0.001942	1	5	.1	0		8310		
185511-013		Treadwell & Rollo	Water	1040	mL	2	0.001923	1	5	.1	0		8310		
185558-011		Treadwell & Rollo	Water	1050	mL	2	0.001905	1	6	.1	0		8310		
185558-012		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185558-013		Treadwell & Rollo	Water	1050	mL	2	0.001905	1	6	.1	0		8310		
185558-014		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185558-015		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185558-016		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185586-001		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185586-002		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185586-003		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185586-009		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
QC332068	BLANK		Water	1000	mL	2	0.002000	1		.1	0		8310		
QC332069	BS		Water	1000	mL	2	0.002000	1		.1	1		8310		
QC332070	BSD		Water	1000	mL	2	0.002000	1		.1	1		8310		

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Prep Chemist: Jessie Mee Reviewed By: [signature] Date: 3/20/06

Relinquished By: [signature] Received By: [signature] Date: 21MAR2006

Curtis & Tompkins, Ltd

8310 WATER PREP LOG

BK2190

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LIMS Batch No: 111439
LIMS Analysis: 8310
Extracted by: JOM
Date Extracted: 19 Mar 06

Extraction Method:
☐ EPA 3510c sep. funnel
☒ EPA 3520c cont. L/L
☐ _____

Cleanup Method (if needed):
☐ EPA 3640a GPC
☐ EPA 3630c Silica Gel

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185511-012 X	1030	5	2.0		
13 U	1040	5			
185588-011 I	1050	6			
12 F	1060				
13 M	1050				
14	1060				
15					
16 L					
185586-001 L					*
02					*
03					*
09					
MB QC332068	1000	NA			
BS 69					
BSD 70					

KMH 3/20/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.1 mL of surrogate solution was added to all samples	2041M / V*	JOM 3/19/06
1.0 mL of matrix spiking solution was added to all spikes	2004B	
☒ Samples continuously extracted with about 450 mL of CH_2Cl_2	EM46014	
Extraction Start Time:	1225	
Extraction End Time:	0745	3/20/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	KMH 3/20/06
Extracts filtered through baked, CH2Cl2-rinsed granular powdered Na2SO4	EM571832	
Exchanged 2x with Acetonitrile	EM452/6	
Concentrated: ☒ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Silica Gel	NA	
Extracts filtered with 0.45 um PTFE syringe filter	WHATMAN K435	

Jessica Moe 3/19/06
Extraction Chemist **Date**

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Contined from Page ___
Continued on Page ___

Kristie H 3/20/06
Reviewed by **Date**

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8310 Water 3520C
As of 04/08/06

Analyte	Units	HPLC02 1	HPLC02 2	HPLC02 3	HPLC04 1	HPLC04 2	HPLC04 3
Naphthalene	ug/L	0.16		0.069	0.097		0.10
Acenaphthylene	ug/L	0.37	0.29		0.24	0.16	
2-Methylnaphthalene	ug/L				0.072		0.10
Acenaphthene	ug/L	0.36		0.098	0.33		0.085
Fluorene	ug/L	0.051		0.054	0.028		0.017
Phenanthrene	ug/L	0.030		0.0086	0.0082		0.0078
Anthracene	ug/L	0.021		0.0077	0.024		0.023
Fluoranthene	ug/L	0.13		0.011	0.042		0.013
Pyrene	ug/L	0.066		0.0048	0.036		0.010
Benzo(a)anthracene	ug/L	0.044		0.0046	0.022		0.013
Chrysene	ug/L	0.036		0.0059	0.021		0.0096
Benzo(b)fluoranthene	ug/L	0.032		0.0081	0.015		0.013
Benzo(k)fluoranthene	ug/L	0.037		0.0044	0.013		0.0080
Benzo(a)pyrene	ug/L	0.055		0.0045	0.017		0.025
Dibenz(a,h)anthracene	ug/L	0.12		0.026	0.037		0.025
Benzo(g,h,i)perylene	ug/L	0.066		0.014	0.047		0.017
Indeno(1,2,3-cd)pyrene	ug/L	0.065		0.011	0.013		0.0096
1-Methylnaphthalene (UV)	ug/L	1.2	1.9		9.0	9.1	
1-Methylnaphthalene (F)	ug/L			0.72			9.8

METALS

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DAEGW03	Batch#:	111421
Lab ID:	185558-011	Sampled:	03/14/06
Matrix:	Filtrate	Received:	03/15/06
Units:	ug/L	Prepared:	03/17/06

Analyte	Result	RL	Dilu Fac	Analyzed
Aluminum	ND	100	1.000	03/26/06
Antimony	1.4	1.0	1.000	03/28/06
Arsenic	ND	5.0	1.000	03/28/06
Barium	100	10	1.000	03/28/06
Beryllium	ND	2.0	1.000	03/28/06
Cadmium	20	1.0	1.000	03/28/06
Calcium	65,000	10,000	20.00	03/29/06
Chromium	ND	10	1.000	03/28/06
Cobalt	ND	10	1.000	03/28/06
Copper	2.6	1.0	1.000	03/28/06
Iron	170	100	1.000	03/28/06
Lead	ND	3.0	1.000	03/28/06
Magnesium	130,000	10,000	20.00	03/29/06
Manganese	2,900	200	20.00	03/29/06
Nickel	35	20	1.000	03/28/06
Potassium	1,500	500	1.000	03/28/06
Selenium	ND	5.0	1.000	03/28/06
Silver	ND	1.0	1.000	03/28/06
Sodium	140,000	10,000	20.00	03/29/06
Thallium	ND	1.0	1.000	03/28/06
Vanadium	ND	10	1.000	03/28/06
Zinc	110	20	1.000	03/28/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DAEGW04	Batch#:	111421
Lab ID:	185558-012	Sampled:	03/14/06
Matrix:	Filtrate	Received:	03/15/06
Units:	ug/L	Prepared:	03/17/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/26/06
Antimony	ND	1.0	1.000	03/28/06
Arsenic	ND	5.0	1.000	03/28/06
Barium	27	10	1.000	03/28/06
Beryllium	ND	2.0	1.000	03/28/06
Cadmium	ND	1.0	1.000	03/28/06
Calcium	38,000	10,000	20.00	03/29/06
Chromium	12	10	1.000	03/28/06
Cobalt	ND	10	1.000	03/28/06
Copper	2.3	1.0	1.000	03/28/06
Iron	110	100	1.000	03/28/06
Lead	ND	3.0	1.000	03/28/06
Magnesium	98,000	10,000	20.00	03/29/06
Manganese	27	10	1.000	03/28/06
Nickel	790	400	20.00	03/29/06
Potassium	5,100	500	1.000	03/28/06
Selenium	ND	5.0	1.000	03/28/06
Silver	ND	1.0	1.000	03/28/06
Sodium	72,000	10,000	20.00	03/29/06
Thallium	ND	1.0	1.000	03/28/06
Vanadium	ND	10	1.000	03/28/06
Zinc	ND	20	1.000	03/28/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DAEGW05	Batch#:	111421
Lab ID:	185558-013	Sampled:	03/14/06
Matrix:	Filtrate	Received:	03/15/06
Units:	ug/L	Prepared:	03/17/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/26/06
Antimony	ND	1.0	1.000	03/28/06
Arsenic	ND	5.0	1.000	03/28/06
Barium	63	10	1.000	03/28/06
Beryllium	ND	2.0	1.000	03/28/06
Cadmium	ND	1.0	1.000	03/28/06
Calcium	66,000	10,000	20.00	03/29/06
Chromium	14	10	1.000	03/28/06
Cobalt	ND	10	1.000	03/28/06
Copper	2.2	1.0	1.000	03/28/06
Iron	190	100	1.000	03/28/06
Lead	ND	3.0	1.000	03/28/06
Magnesium	100,000	10,000	20.00	03/29/06
Manganese	20	10	1.000	03/28/06
Nickel	100	20	1.000	03/28/06
Potassium	790	500	1.000	03/28/06
Selenium	ND	5.0	1.000	03/28/06
Silver	ND	1.0	1.000	03/28/06
Sodium	84,000	10,000	20.00	03/29/06
Thallium	ND	1.0	1.000	03/28/06
Vanadium	ND	10	1.000	03/28/06
Zinc	ND	20	1.000	03/28/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DAEGW08	Batch#:	111421
Lab ID:	185558-014	Sampled:	03/14/06
Matrix:	Filtrate	Received:	03/15/06
Units:	ug/L	Prepared:	03/17/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/26/06
Antimony	ND	1.0	1.000	03/28/06
Arsenic	ND	5.0	1.000	03/28/06
Barium	100	10	1.000	03/28/06
Beryllium	ND	2.0	1.000	03/28/06
Cadmium	ND	1.0	1.000	03/28/06
Calcium	96,000	10,000	20.00	03/29/06
Chromium	ND	10	1.000	03/28/06
Cobalt	ND	10	1.000	03/28/06
Copper	2.2	1.0	1.000	03/28/06
Iron	160	100	1.000	03/28/06
Lead	ND	3.0	1.000	03/28/06
Magnesium	180,000	10,000	20.00	03/29/06
Manganese	750	200	20.00	03/28/06
Nickel	87	20	1.000	03/28/06
Potassium	ND	500	1.000	03/28/06
Selenium	ND	5.0	1.000	03/28/06
Silver	ND	1.0	1.000	03/28/06
Sodium	120,000	10,000	20.00	03/29/06
Thallium	ND	1.0	1.000	03/28/06
Vanadium	ND	10	1.000	03/28/06
Zinc	ND	20	1.000	03/28/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DAEGW103	Batch#:	111421
Lab ID:	185558-015	Sampled:	03/14/06
Matrix:	Filtrate	Received:	03/15/06
Units:	ug/L	Prepared:	03/17/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/26/06
Antimony	ND	1.0	1.000	03/28/06
Arsenic	ND	5.0	1.000	03/28/06
Barium	100	10	1.000	03/28/06
Beryllium	ND	2.0	1.000	03/28/06
Cadmium	ND	1.0	1.000	03/28/06
Calcium	39,000	10,000	20.00	03/29/06
Chromium	ND	10	1.000	03/28/06
Cobalt	ND	10	1.000	03/28/06
Copper	14	1.0	1.000	03/28/06
Iron	240	100	1.000	03/28/06
Lead	3.8	3.0	1.000	03/28/06
Magnesium	28,000	10,000	20.00	03/29/06
Manganese	ND	10	1.000	03/28/06
Nickel	20	20	1.000	03/28/06
Potassium	1,600	500	1.000	03/28/06
Selenium	ND	5.0	1.000	03/28/06
Silver	ND	1.0	1.000	03/28/06
Sodium	60,000	10,000	20.00	03/29/06
Thallium	ND	1.0	1.000	03/28/06
Vanadium	ND	10	1.000	03/28/06
Zinc	26	20	1.000	03/28/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	600GW109	Batch#:	111421
Lab ID:	185558-016	Sampled:	03/14/06
Matrix:	Filtrate	Received:	03/15/06
Units:	ug/L	Prepared:	03/17/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/26/06
Arsenic	ND	5.0	1.000	03/28/06
Cadmium	ND	1.0	1.000	03/28/06
Calcium	37,000	10,000	20.00	03/28/06
Chromium	ND	10	1.000	03/28/06
Copper	ND	1.0	1.000	03/28/06
Iron	2,900	100	1.000	03/28/06
Lead	ND	3.0	1.000	03/28/06
Magnesium	51,000	10,000	20.00	03/29/06
Manganese	170	100	10.00	03/30/06
Nickel	ND	20	1.000	03/28/06
Potassium	2,800	500	1.000	03/28/06
Sodium	46,000	10,000	20.00	03/29/06
Zinc	ND	20	1.000	03/28/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065MW102	Batch#:	111421
Lab ID:	185558-017	Sampled:	03/14/06
Matrix:	Filtrate	Received:	03/15/06
Units:	ug/L	Prepared:	03/17/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/26/06
Antimony	ND	1.0	1.000	03/28/06
Arsenic	6.8	5.0	1.000	03/28/06
Cadmium	ND	1.0	1.000	03/28/06
Calcium	14,000	500	1.000	03/28/06
Chromium	ND	10	1.000	03/28/06
Copper	ND	1.0	1.000	03/28/06
Iron	1,300	100	1.000	03/28/06
Lead	ND	3.0	1.000	03/28/06
Magnesium	14,000	500	1.000	03/26/06
Manganese	180	100	10.00	03/30/06
Nickel	ND	20	1.000	03/28/06
Potassium	4,800	500	1.000	03/28/06
Sodium	120,000	10,000	20.00	03/29/06
Vanadium	ND	10	1.000	03/28/06
Zinc	ND	20	1.000	03/28/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065PZ1A	Batch#:	111421
Lab ID:	185558-018	Sampled:	03/14/06
Matrix:	Filtrate	Received:	03/15/06
Units:	ug/L	Prepared:	03/17/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/26/06
Antimony	ND	1.0	1.000	03/28/06
Arsenic	11	5.0	1.000	03/28/06
Cadmium	ND	1.0	1.000	03/28/06
Calcium	54,000	10,000	20.00	03/29/06
Chromium	ND	10	1.000	03/28/06
Copper	1.2	1.0	1.000	03/28/06
Iron	11,000	100	1.000	03/28/06
Lead	ND	3.0	1.000	03/28/06
Magnesium	43,000	10,000	20.00	03/29/06
Manganese	120	10	1.000	03/28/06
Nickel	ND	20	1.000	03/28/06
Potassium	1,700	500	1.000	03/28/06
Sodium	140,000	10,000	20.00	03/29/06
Vanadium	ND	10	1.000	03/28/06
Zinc	ND	20	1.000	03/28/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	231PZ04	Batch#:	111421
Lab ID:	185558-019	Sampled:	03/14/06
Matrix:	Filtrate	Received:	03/15/06
Units:	ug/L	Prepared:	03/17/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/26/06
Arsenic	10	5.0	1.000	03/28/06
Cadmium	ND	1.0	1.000	03/28/06
Calcium	94,000	10,000	20.00	03/29/06
Chromium	ND	10	1.000	03/28/06
Copper	ND	1.0	1.000	03/28/06
Iron	20,000	2,000	20.00	03/29/06
Lead	ND	3.0	1.000	03/28/06
Magnesium	54,000	10,000	20.00	03/29/06
Manganese	2,400	200	20.00	03/29/06
Nickel	ND	20	1.000	03/28/06
Potassium	6,000	500	1.000	03/28/06
Sodium	51,000	10,000	20.00	03/29/06
Zinc	ND	20	1.000	03/28/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	231PZ03	Batch#:	111421
Lab ID:	185558-020	Sampled:	03/14/06
Matrix:	Filtrate	Received:	03/15/06
Units:	ug/L	Prepared:	03/17/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/26/06
Arsenic	ND	5.0	1.000	03/28/06
Cadmium	ND	1.0	1.000	03/28/06
Calcium	85,000	10,000	20.00	03/29/06
Chromium	ND	10	1.000	03/28/06
Copper	ND	1.0	1.000	03/28/06
Iron	16,000	100	1.000	03/28/06
Lead	ND	3.0	1.000	03/28/06
Magnesium	48,000	10,000	20.00	03/29/06
Manganese	2,200	200	20.00	03/29/06
Nickel	ND	20	1.000	03/28/06
Potassium	5,100	500	1.000	03/28/06
Sodium	48,000	10,000	20.00	03/29/06
Zinc	ND	20	1.000	03/28/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	231PZ01	Batch#:	111421
Lab ID:	185558-022	Sampled:	03/14/06
Matrix:	Filtrate	Received:	03/15/06
Units:	ug/L	Prepared:	03/17/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/26/06
Arsenic	22	5.0	1.000	03/28/06
Cadmium	ND	1.0	1.000	03/28/06
Calcium	130,000	10,000	20.00	03/29/06
Chromium	ND	10	1.000	03/28/06
Copper	1.0	1.0	1.000	03/28/06
Iron	41,000	2,000	20.00	03/29/06
Lead	6.3	3.0	1.000	03/28/06
Magnesium	79,000	10,000	20.00	03/29/06
Manganese	3,000	200	20.00	03/28/06
Nickel	ND	20	1.000	03/28/06
Potassium	38,000	10,000	20.00	03/29/06
Sodium	86,000	10,000	20.00	03/29/06
Zinc	22	20	1.000	03/28/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	231GW15	Batch#:	111421
Lab ID:	185558-026	Sampled:	03/14/06
Matrix:	Filtrate	Received:	03/15/06
Units:	ug/L	Prepared:	03/17/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/26/06
Arsenic	ND	5.0	1.000	03/28/06
Cadmium	ND	1.0	1.000	03/28/06
Calcium	33,000	10,000	20.00	03/29/06
Chromium	ND	10	1.000	03/28/06
Copper	ND	1.0	1.000	03/28/06
Iron	330	100	1.000	03/28/06
Lead	ND	3.0	1.000	03/28/06
Magnesium	37,000	10,000	20.00	03/29/06
Manganese	190	10	1.000	03/28/06
Nickel	ND	20	1.000	03/28/06
Potassium	12,000	500	1.000	03/28/06
Sodium	51,000	10,000	20.00	03/29/06
Zinc	ND	20	1.000	03/28/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	231GW13	Batch#:	111421
Lab ID:	185558-027	Sampled:	03/14/06
Matrix:	Filtrate	Received:	03/15/06
Units:	ug/L	Prepared:	03/17/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/26/06
Arsenic	35	5.0	1.000	03/28/06
Cadmium	ND	1.0	1.000	03/28/06
Calcium	1,600	500	1.000	03/28/06
Chromium	ND	10	1.000	03/28/06
Copper	5.7	1.0	1.000	03/28/06
Iron	170	100	1.000	03/28/06
Lead	ND	3.0	1.000	03/28/06
Magnesium	4,200	500	1.000	03/30/06
Manganese	100	10	1.000	03/28/06
Nickel	ND	20	1.000	03/28/06
Potassium	6,600	500	1.000	03/28/06
Sodium	330,000	10,000	20.00	03/29/06
Zinc	ND	20	1.000	03/28/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331981	Batch#:	111421
Matrix:	Filtrate	Prepared:	03/17/06
Units:	ug/L	Analyzed:	03/25/06

Analyte	Result	RL
Aluminum	ND	100
Antimony	ND	1.0
Arsenic	ND	5.0
Barium	ND	10
Beryllium	ND	2.0
Cadmium	ND	1.0
Calcium	ND	500
Chromium	ND	10
Cobalt	ND	10
Copper	ND	1.0
Iron	ND	100
Lead	ND	3.0
Magnesium	ND	500
Manganese	ND	10
Nickel	ND	20
Potassium	ND	500
Selenium	ND	5.0
Silver	ND	1.0
Sodium	ND	500
Thallium	ND	1.0
Vanadium	ND	10
Zinc	ND	20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Metals Analytical Report

Lab #:	185558	Project#:	2893.04.51
Client:	Treadwell & Rollo	Location:	Presidio
Field ID:	DAEGW103	Diln Fac:	1.000
Matrix:	Filtrate	Sampled:	03/14/06
Units:	ug/L	Received:	03/15/06

Type: SAMPLE Lab ID: 185558-015

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Mercury	ND	0.20	111380	03/16/06	03/16/06	METHOD	EPA 7470A
Molybdenum	ND	5.0	111421	03/17/06	03/28/06	200.8	EPA 6020

Type:	BLANK	Analyzed:	03/16/06
Lab ID:	QC331792	Prep:	METHOD
Batch#:	111380	Analysis:	EPA 7470A
Prepared:	03/16/06		

Analyte	Result	RL
Mercury	ND	0.20

Type:	BLANK	Analyzed:	03/25/06
Lab ID:	QC331981	Prep:	200.8
Batch#:	111421	Analysis:	EPA 6020
Prepared:	03/17/06		

Analyte	Result	RL
Molybdenum	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Hardness (Total)

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	SM 2340B
Analyte:	Hardness as CaCO3	Batch#:	111421
Field ID:	DAEGW103	Sampled:	03/14/06
Matrix:	Filtrate	Received:	03/15/06
Units:	mg/L	Prepared:	03/17/06

Type	Lab ID	Result	RL	Diln Fac	Analyzed
SAMPLE	185558-015	210	3.3	20.00	03/29/06
BLANK	QC331981	ND	3.3	1.000	03/25/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Matrix:	Filtrate	Batch#:	111421
Units:	ug/L	Prepared:	03/17/06
Diln Fac:	1.000	Analyzed:	03/25/06

Type: BS Lab ID: QC331982

Analyte	Spiked	Result	%REC	Limits
Aluminum	100.0	96.14	96	80-120
Antimony	100.0	106.6	107	80-120
Arsenic	100.0	102.7	103	80-120
Barium	100.0	99.01	99	80-120
Beryllium	100.0	97.16	97	80-120
Cadmium	100.0	101.2	101	80-120
Calcium	10,000	10,360	104	80-120
Chromium	100.0	100.9	101	80-120
Cobalt	100.0	98.73	99	80-120
Copper	100.0	101.8	102	80-120
Iron	10,000	10,330	103	80-120
Lead	100.0	100.4	100	80-120
Magnesium	10,000	10,130	101	80-120
Manganese	100.0	99.61	100	80-120
Nickel	100.0	100.9	101	80-120
Potassium	10,000	10,190	102	80-120
Selenium	100.0	97.50	98	80-120
Silver	100.0	104.8	105	80-120
Sodium	10,000	9,917	99	80-120
Thallium	100.0	92.48	92	80-120
Vanadium	100.0	98.83	99	80-120
Zinc	100.0	98.61	99	80-120

Type: BSD Lab ID: QC331983

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	100.0	99.25	99	80-120	3	20
Antimony	100.0	105.3	105	80-120	1	20
Arsenic	100.0	103.6	104	80-120	1	20
Barium	100.0	99.16	99	80-120	0	20
Beryllium	100.0	98.52	99	80-120	1	20
Cadmium	100.0	102.4	102	80-120	1	20
Calcium	10,000	10,400	104	80-120	0	20
Chromium	100.0	102.0	102	80-120	1	20
Cobalt	100.0	99.97	100	80-120	1	20
Copper	100.0	103.2	103	80-120	1	20
Iron	10,000	10,330	103	80-120	0	20
Lead	100.0	102.2	102	80-120	2	20
Magnesium	10,000	10,200	102	80-120	1	20
Manganese	100.0	99.77	100	80-120	0	20
Nickel	100.0	102.1	102	80-120	1	20
Potassium	10,000	10,350	104	80-120	2	20
Selenium	100.0	98.02	98	80-120	1	20
Silver	100.0	105.5	106	80-120	1	20
Sodium	10,000	10,100	101	80-120	2	20
Thallium	100.0	95.73	96	80-120	3	20
Vanadium	100.0	99.29	99	80-120	0	20
Zinc	100.0	107.6	108	80-120	9	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Metals Analytical Report

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Analyte:	Molybdenum	Batch#:	111421
Matrix:	Filtrate	Prepared:	03/17/06
Units:	ug/L	Analyzed:	03/25/06
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC331982	100.0	101.2	101	80-120		
BSD	QC331983	100.0	103.5	104	80-120	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Metals Analytical Report

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	111380
Matrix:	Filtrate	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/16/06
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC331794	5.000	5.060	101	80-120		
BSD	QC331795	5.000	4.960	99	80-120	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	600GW101	Sampled:	03/08/06
MSS Lab ID:	185408-002	Received:	03/09/06
Matrix:	Filtrate	Prepared:	03/17/06
Units:	ug/L	Analyzed:	03/25/06
Batch#:	111421		

Type: MS Lab ID: QC331984

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln Fac
Aluminum	2.797	100.0	92.88	90	75-125	1.000
Antimony	0.3726	100.0	105.0	105	75-125	1.000
Arsenic	5.104	100.0	102.9	98	75-125	1.000
Barium	15.06	100.0	114.3	99	75-125	1.000
Beryllium	<0.05514	100.0	93.67	94	75-125	1.000
Cadmium	<0.1409	100.0	94.51	95	75-125	1.000
Calcium	86,580	10,000	97,960	114 NM	75-125	20.00
Chromium	1.092	100.0	102.9	102	75-125	1.000
Cobalt	0.7763	100.0	97.33	97	75-125	1.000
Copper	0.4789	100.0	93.83	93	75-125	1.000
Iron	6,952	10,000	17,600	106	75-125	1.000
Lead	<0.2399	100.0	106.7	107	75-125	1.000
Magnesium	43,940	10,000	51,950 >LR	80 NM	75-125	1.000
Manganese	897.2	100.0	996.5	99 NM	75-125	20.00
Nickel	2.209	100.0	96.21	94	75-125	1.000
Potassium	10,140	10,000	19,470	93	75-125	1.000
Selenium	0.3668	100.0	85.70	85	75-125	1.000
Silver	<0.04084	100.0	97.52	98	75-125	1.000
Sodium	111,200	10,000	119,300 >LR	81 NM	75-125	1.000
Thallium	0.1767	100.0	97.44	97	75-125	1.000
Vanadium	0.8220	100.0	103.0	102	75-125	1.000
Zinc	1.498	100.0	89.35	88	75-125	1.000

NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	600GW101	Sampled:	03/08/06
MSS Lab ID:	185408-002	Received:	03/09/06
Matrix:	Filtrate	Prepared:	03/17/06
Units:	ug/L	Analyzed:	03/25/06
Batch#:	111421		

Type: MSD Lab ID: QC331985

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
Aluminum	100.0	95.57	93	75-125	3	20	1.000
Antimony	100.0	104.3	104	75-125	1	20	1.000
Arsenic	100.0	102.2	97	75-125	1	20	1.000
Barium	100.0	113.9	99	75-125	0	20	1.000
Beryllium	100.0	93.47	93	75-125	0	20	1.000
Cadmium	100.0	94.30	94	75-125	0	20	1.000
Calcium	10,000	97,950	114 NM	75-125	0	20	20.00
Chromium	100.0	102.8	102	75-125	0	20	1.000
Cobalt	100.0	97.24	96	75-125	0	20	1.000
Copper	100.0	93.47	93	75-125	0	20	1.000
Iron	10,000	17,620	107	75-125	0	20	1.000
Lead	100.0	106.4	106	75-125	0	20	1.000
Magnesium	10,000	52,050 >LR	81 NM	75-125	NC	20	1.000
Manganese	100.0	1,004	107 NM	75-125	1	20	20.00
Nickel	100.0	96.61	94	75-125	0	20	1.000
Potassium	10,000	19,470	93	75-125	0	20	1.000
Selenium	100.0	84.26	84	75-125	2	20	1.000
Silver	100.0	97.32	97	75-125	0	20	1.000
Sodium	10,000	119,300 >LR	81 NM	75-125	NC	20	1.000
Thallium	100.0	97.05	97	75-125	0	20	1.000
Vanadium	100.0	103.2	102	75-125	0	20	1.000
Zinc	100.0	89.19	88	75-125	0	20	1.000

NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Metals Analytical Report

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Analyte:	Molybdenum	Batch#:	111421
Field ID:	600GW101	Sampled:	03/08/06
MSS Lab ID:	185408-002	Received:	03/09/06
Matrix:	Filtrate	Prepared:	03/17/06
Units:	ug/L	Analyzed:	03/25/06
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC331984	0.3105	100.0	104.2	104	75-125		
MSD	QC331985		100.0	103.1	103	75-125	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Metals Analytical Report

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	111380
Field ID:	1349MW02	Sampled:	03/10/06
MSS Lab ID:	185457-016	Received:	03/10/06
Matrix:	Filtrate	Prepared:	03/16/06
Units:	ug/L	Analyzed:	03/16/06
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC331796	<0.07957	5.000	5.240	105	75-125		
MSD	QC331797		5.000	5.480	110	75-125	4	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	600GW101	Units:	ug/L
Type:	Serial Dilution	Batch#:	111421
MSS Lab ID:	185408-002	Sampled:	03/08/06
Lab ID:	QC331986	Received:	03/09/06
Matrix:	Filtrate	Analyzed:	03/25/06

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Diln Fac
Aluminum	ND	100.0	14.33 J	500.0		10	5.000
Antimony	ND	1.000	0.5385 J	5.000		10	5.000
Arsenic	5.104	5.000	5.675 J	25.00		10	5.000
Barium	15.06	10.00	14.09 J	50.00	6	10	5.000
Beryllium	ND	2.000	ND	10.00		10	5.000
Cadmium	ND	1.000	ND	5.000		10	5.000
Calcium	86,580	10,000	85,560	50,000	1	10	100.0
Chromium	ND	10.00	0.8830 J	50.00		10	5.000
Cobalt	ND	10.00	0.7625 J	50.00		10	5.000
Copper	ND	1.000	ND	5.000		10	5.000
Iron	6,952	100.0	6,720	500.0	3	10	5.000
Lead	ND	3.000	ND	15.00		10	5.000
Magnesium	43,940	10,000	41,020 J	50,000	7	10	100.0
Manganese	897.2	200.0	896.9 J	1,000	0	10	100.0
Nickel	ND	20.00	4.093 J	100.0		10	5.000
Potassium	10,140	500.0	9,815	2,500	3	10	5.000
Selenium	ND	5.000	ND	25.00		10	5.000
Silver	ND	1.000	ND	5.000		10	5.000
Sodium	111,200	10,000	109,600	50,000	1	10	100.0
Thallium	ND	1.000	0.5120 J	5.000		10	5.000
Vanadium	ND	10.00	1.003 J	50.00		10	5.000
Zinc	ND	20.00	ND	100.0		10	5.000

J= Estimated value
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Metals Analytical Report

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Analyte:	Molybdenum	Units:	ug/L
Field ID:	600GW101	Diln Fac:	100.0
Type:	Serial Dilution	Batch#:	111421
MSS Lab ID:	185408-002	Sampled:	03/08/06
Lab ID:	QC331986	Received:	03/09/06
Matrix:	Filtrate	Analyzed:	03/25/06

MSS Result	MSS RL	Result	RL	% Diff Lim
ND	100.0	ND	500.0	10

ND= Not Detected
RL= Reporting Limit

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET05
Seqnum: 56120449110
File : c2415110
IDF : 1.0
Lab ID: 185408-002
Matrix: Filtrate
Batch : 111421
Time : 25-MAR-2006 01:34
Cal : 56120449001
Units : ug/L

Type : PDS
Inst : MET05
Seqnum: 56120449114
File : c2415114
IDF : 1.0
Lab ID: QC331987
Matrix: Filtrate
Batch : 111421
Time : 25-MAR-2006 01:56
Cal : 56120449001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (100X), 05WS0207

Analyte	MSS	Spiked	PDS	%Rec	Limits	Flags
Aluminum	2.797	100.0	96.05	93	75-125	
Antimony	0.3726	100.0	104.3	104	75-125	
Arsenic	5.104	100.0	103.2	98	75-125	
Barium	15.06	100.0	113.3	98	75-125	
Beryllium	ND	100.0	92.25	92	75-125	
Cadmium	ND	100.0	95.00	95	75-125	
Chromium	1.092	100.0	103.8	103	75-125	
Cobalt	0.7763	100.0	97.42	97	75-125	
Copper	0.4789	100.0	94.32	94	75-125	
Iron	6952	10000	17540	106	75-125	
Lead	ND	100.0	107.8	108	75-125	
Molybdenum	0.3105	100.0	104.3	104	75-125	
Nickel	2.209	100.0	96.60	94	75-125	
Potassium	10140	10000	19220	91	75-125	
Selenium	0.3668	100.0	86.10	86	75-125	
Silver	ND	100.0	97.63	98	75-125	
Thallium	0.1767	100.0	98.58	98	75-125	
Vanadium	0.8220	100.0	104.0	103	75-125	
Zinc	1.498	100.0	88.16	87	75-125	

ISTD (ICALBLK c2415003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	988200	732944	-25.83
Scandium	562292	421383	-25.06
Germanium	180440	125876	-30.24
Indium	1368410	941699	-31.18
Bismuth	1333700	837344	-37.22

MISSING READINGS: **CA MG MN NA**

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET05
Seqnum: 56120449115
File : c2415115
IDF : 20.0
Lab ID: 185408-002
Matrix: Filtrate
Batch : 111421
Time : 25-MAR-2006 02:02
Cal : 56120449001
Units : ug/L

Type : PDS
Inst : MET05
Seqnum: 56120449119
File : c2415119
IDF : 20.0
Lab ID: QC331987
Matrix: Filtrate
Batch : 111421
Time : 25-MAR-2006 02:24
Cal : 56120449001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (2000X), 05WS0207

Analyte	MSS	Spiked	PDS	%Rec	Limits	Flags
Aluminum	2.660	5.000	5.760	**62***	75-125	
Antimony	ND	5.000	4.959	99	75-125	
Arsenic	ND	5.000	5.355	107	75-125	
Barium	0.7085	5.000	5.270	91	75-125	
Beryllium	ND	5.000	4.650	93	75-125	
Cadmium	ND	5.000	4.907	98	75-125	
Calcium	4329	500.0	4793	93	75-125	:
Chromium	0.08620	5.000	4.862	96	75-125	
Cobalt	0.06890	5.000	4.772	94	75-125	
Copper	ND	5.000	4.835	97	75-125	
Iron	339.1	500.0	797.0	92	75-125	
Lead	ND	5.000	4.616	92	75-125	
Magnesium	2197	500.0	2757	112	75-125	:
Manganese	44.86	5.000	49.34	90	75-125	:
Molybdenum	0.1265	5.000	4.810	94	75-125	
Nickel	ND	5.000	4.877	98	75-125	
Potassium	509.0	500.0	1002	99	75-125	
Selenium	ND	5.000	5.075	102	75-125	
Silver	ND	5.000	5.005	100	75-125	
Sodium	5560	500.0	6170	122	75-125	:
Thallium	1.296	5.000	4.142	**57***	75-125	
Vanadium	ND	5.000	4.629	93	75-125	
Zinc	ND	5.000	7.095	**142***	75-125	

ISTD (ICALBLK c2415003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	988200	827809	-16.23
Scandium	562292	454117	-19.24
Germanium	180440	144977	-19.65
Indium	1368410	1098643	-19.71
Bismuth	1333700	1077590	-19.20

:=recovery not meaningful

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56120449001
Units : ug/L

Date : 24-MAR-2006 15:41
X Axis : R

Reviewer: ---
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	c2415004	56120449004	CS1	24-MAR-2006 15:46	S2889
L2	c2415005	56120449005	CS2	24-MAR-2006 15:52	S2890
L3	c2415006	56120449006	CS3	24-MAR-2006 15:57	S2891
L4	c2415007	56120449007	CS4	24-MAR-2006 16:03	S2892
L5	c2415008	56120449008	CS5	24-MAR-2006 16:09	S2886
L6	c2415009	56120449009	CS6	24-MAR-2006 16:14	S2887

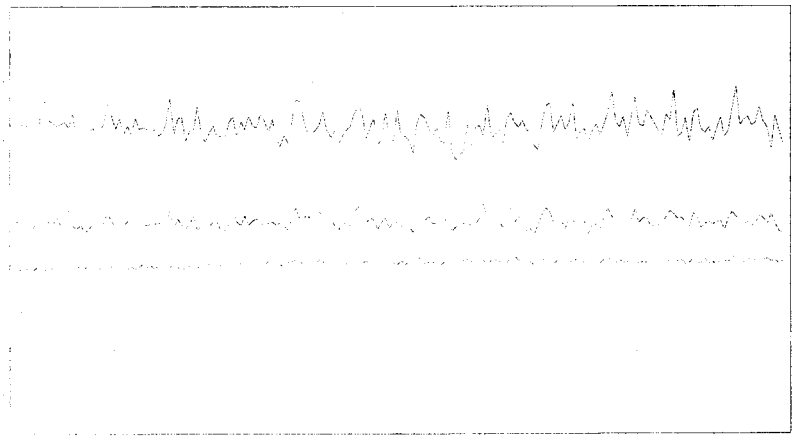
Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		1.8605	1.1946	0.4907	0.4094	0.4097	BLNK	-1.6870	2.46573		0.8730	1.000	0.995	
Antimony	0.1780	0.1434	0.1257	0.1098	0.1029	0.1019	BLNK	-0.1664	9.80139		0.1269	1.000	0.995	
Arsenic		0.2728	0.2620	0.2056	0.2010	0.1990	BLNK	-0.1452	5.01868		0.2281	1.000	0.995	
Barium	0.0583	0.0574	0.0479	0.0444	0.0446	0.0453	BLNK	-0.0450	22.1682		0.0496	1.000	0.995	
Beryllium	0.0661	0.0593	0.0607	0.0585	0.0590	0.0588	BLNK	-0.0029	17.0061		0.0604	1.000	0.995	
Cadmium	0.5468	0.4191	0.3292	0.2506	0.2312	0.2236	BLNK	-0.3575	4.45075		0.3334	1.000	0.995	
Calcium		0.0121	0.0104	0.0088	0.0089	0.0088	BLNK	-15.467	113.905		0.0098	1.000	0.995	475
Chromium		2.3744	1.7967	1.1375	1.0851	1.0705	BLNK	-0.6189	0.93502		1.4929	1.000	0.995	
Cobalt	1.6505	1.5760	1.5236	1.4844	1.4616	1.4745	BLNK	-0.0218	0.67948		1.5284	1.000	0.995	
Copper		0.7293	0.6445	0.4408	0.3931	0.3808	BLNK	-0.3058	2.61347		0.5177	1.000	0.995	
Iron		0.0506	0.0428	0.0355	0.0358	0.0349	BLNK	-21.353	28.5285		0.0399	1.000	0.995	
Lead	0.5069	0.5076	0.4807	0.4612	0.4729	0.4717	BLNK	-0.0318	2.11926		0.4835	1.000	0.995	
Magnesium		0.0517	0.0515	0.0513	0.0513	0.0492	BLNK	-1.4769	20.1503		0.0510	1.000	0.995	
Manganese	2.2757	2.0345	1.9020	1.6279	1.5790	1.6056	BLNK	-0.0591	0.62511		1.8374	1.000	0.995	
Molybdenum		0.4345	0.4191	0.4041	0.4047	0.4013	BLNK	-0.0797	2.48909		0.4127	1.000	0.995	
Nickel	0.6375	0.4675	0.4141	0.3391	0.3194	0.3117	BLNK	-0.1830	3.19569		0.4149	1.000	0.995	
Potassium		0.6418	0.4774	0.3254	0.3000	0.2894	BLNK	-57.377	3.44186		0.4068	1.000	0.995	
Selenium		0.0460	0.0348	0.0223	0.0207	0.0199	BLNK	-0.4990	50.0105		0.0287	1.000	0.995	
Silver	1.1672	1.0952	1.1200	1.0903	1.0505	1.0242	BLNK	-0.0141	0.97135		1.0912	1.000	0.995	
Sodium		0.6166	0.6212	0.5282	0.5092	0.4996	BLNK	-10.059	1.99501		0.5550	1.000	0.995	
Thallium		0.3411	0.3263	0.3031	0.3335	0.3464	BLNK	-0.0388	2.91011		0.3301	1.000	0.995	
Vanadium		1.3448	1.3988	1.2138	1.2039	1.2363	BLNK	-0.1996	0.81418		1.2795	1.000	0.995	
Zinc		1.2572	0.8374	0.3067	0.2462	0.2333	BLNK	-1.6768	4.28153		0.5762	0.999	0.995	

BLNK=Y=aX+[blank]

Instrument amount = a0 + response * a1 + response^2 * a2

Tune Report

Tune File : ATUNE.U



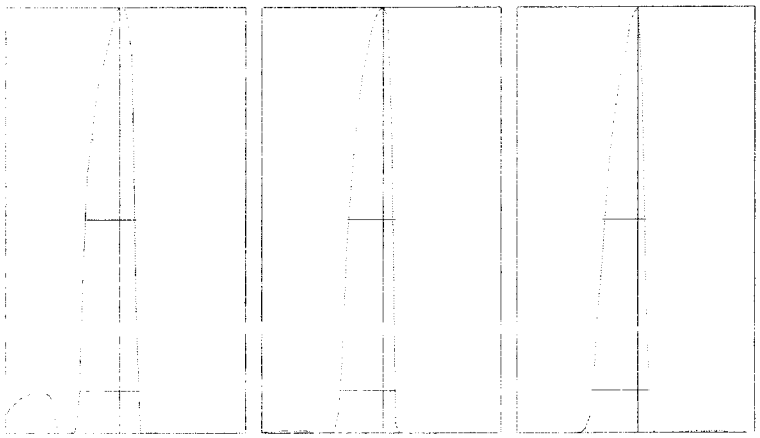
m/z:	7	89	205
Range:	20,000	50,000	50,000
Count:	13,609	23,577	20,220
Mean:	14435.6	24900.6	19936.6
RSD%:	4.15	2.70	1.95
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.45%
Doubly Charged:	70/140	0.87%

Background:

m/z:	7	89	205
Cps:	3.6	2.7	3.4



m/z:	7	89	205
Height:	14,342	24,842	20,339
Axis:	6.95	89.05	205.05
W-50%:	0.65	0.60	0.55
W-10%:	0.7500	0.700	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1210 W	Extract 1:	-156.2 V	AMU Gain:	129
RF Matching:	1.62 V	Extract 2:	-96 V	AMU Offset:	127
Smpl Depth:	7 mm	Einzel 1,3:	-66 V	Axis Gain:	0.9998
Torch-H:	0 mm	Einzel 2:	16 V	Axis Offset:	-0.07
Torch-V:	0.4 mm	Omega Bias:	-33 V	QP Bias:	1.5 V
Carrier Gas:	1.14 L/min	Omega (+):	1 V		
Makeup Gas:	0 L/min	Omega (-):	-6.7 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	7.1 V	Discriminator:	8.7 mV
PeriPump1:	0.1 rps	Plate Bias:	-12.5 V	Analog HV:	1760 V
PeriPump2:	--- rps			Pulse HV:	1200 V
S/C Temp:	2 degC				

Generated : Mar 24, 2006 09:36:10
Printed : Mar 24, 2006 09:36:18

P/A Factor Tuning Report

Acquired:Mar 24 2006 09:58 am

Mass[amu]	Element	P/A Factor
6	Li	0.069890
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.091599
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.096622
45	Sc	0.093601
51	V	0.096393
52	Cr	0.098039
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.100615
57	Fe	0.103163
59	Co	0.102826
60	Ni	Sensitivity too low
63	Cu	0.103753
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.103865
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.109250
111	Cd	Sensitivity too low
114	Cd	0.107106
115	In	0.111014
118	(In)	Sensitivity too high
121	Sb	0.107751
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.115795
166	Er	Sensitivity too low

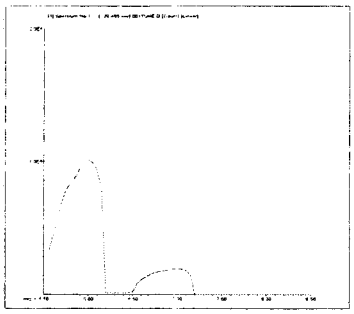
```
    205        Tl    0.119230
    206      (Pb)    0.115740
    207      (Pb)  Sensitivity too low
    208        Pb    0.118111
    209        Bi    0.119285

===Detector Parameters===
  Discriminator: 8.7 mV
      Analog HV: 1760 V
       Pulse HV: 1200 V
```

6020 QC Tune Report

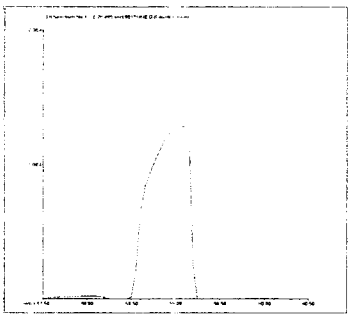
Data File: C:\ICPCHEM\1\DATA\06C2415a.B\001TUNE.D
Date Acquired: Mar 24 2006 03:29 pm
Acq. Method: TN6020.M
Operator:
Sample Name: TUN,S2898
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

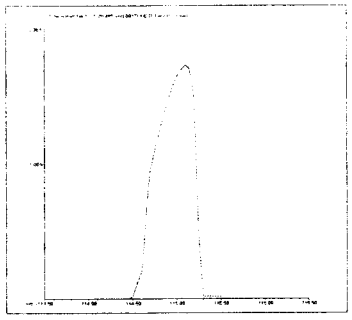
Element	Actual	Required	Flag
7 Li	0.91	5.00	
59 Co	0.65	5.00	
115 In	0.92	5.00	
205 Tl	0.37	5.00	



7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



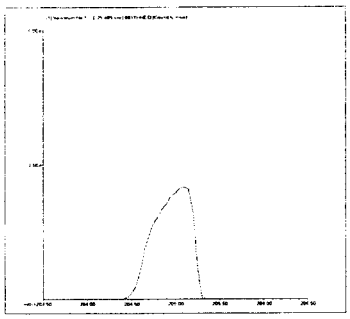
115 In

Mass Calib.

Actual:	115.10	
Required:	114.90 -	115.10
Flag:		

Peak Width

Actual:	0.60
Required:	0.90
Flag:	



205 Tl

Mass Calib.

Actual:	205.10	
Required:	204.90 -	205.10
Flag:		

Peak Width

Actual:	0.65
Required:	0.90
Flag:	

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2415A.B\002BLNK.D\002BLNK.D#
Date Acquired:	Mar 24 2006 03:35 pm
Acq. Method:	60200111.M
Operator:	
Sample Name:	RINSE
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update:	Mar 24 2006 11:26 am
Sample Type:	6-Blank
Dilution Factor:	1.00

QC Elements

Element	Corr. Conc.		RSD(%)	Raw Conc.	High Limit	Flag
9 Be	-0.001015	ppb	161.38	-0.001015	1.00	
23 Na	-1.738	ppb	92.98	-1.738	1.00	
26 Mg	-0.8588	ppb	49.65	-0.8588	1.00	
27 Al	-1.781	ppb	24.15	-1.781	1.00	
39 K	0.3404	ppb	385.72	0.3404	1.00	
44 Ca	-6.799	ppb	22.49	-6.799	1.00	
51 V	0.03006	ppb	56.52	0.03006	1.00	
52 Cr	-0.06791	ppb	29.58	-0.06791	1.00	
55 Mn	-0.003013	ppb	187.09	-0.003013	1.00	
57 Fe	2.081	ppb	32.68	2.081	1.00	
59 Co	-0.00569	ppb	52.51	-0.00569	1.00	
60 Ni	0.01019	ppb	89.53	0.01019	1.00	
65 Cu	-0.1327	ppb	25.97	-0.1327	1.00	
66 Zn	-0.02679	ppb	304.18	-0.02679	1.00	
75 As	-0.2177	ppb	66.61	-0.2177	1.00	
82 Se	-0.1506	ppb	182.20	-0.1506	1.00	
95 Mo	0.02955	ppb	8.31	0.02955	1.00	
109 Ag	-0.006384	ppb	7.97	-0.006384	1.00	
111 Cd	0.05344	ppb	67.35	0.05344	1.00	
121 Sb	0.08967	ppb	16.39	0.08967	1.00	
137 Ba	-0.0177	ppb	20.78	-0.0177	1.00	
205 Tl	0.009955	ppb	109.49	0.009955	1.00	
208 Pb	-0.002155	ppb	105.01	-0.002155	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	988486.00	0.86	---	#VALUE!	80 - 120	
45 Sc	582573.75	2.56	---	#VALUE!	80 - 120	
72 Ge	181827.56	0.52	---	#VALUE!	80 - 120	
115 In	1400126.40	0.48	---	#VALUE!	80 - 120	
209 Bi	1349633.10	0.73	---	#VALUE!	80 - 120	

ISTD Ref File : ---

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Fail
ISTD: Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\003CAL
Date Acquired: Mar 24 2006 03:41 pm
Operator:
Sample Name: std-blk
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 11:26 am
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	988199.50	A	16580.00	1.68
9	Be	3.33	P	3.33	99.99
23	Na	56710.00	P	10620.00	18.73
26	Mg	824.44	P	365.40	44.32
27	Al	7695.56	P	3062.00	39.79
39	K	187473.30	P	1880.00	1.00
44	Ca	1527.23	P	215.90	14.14
45	Sc	562292.19	P	586.20	0.10
51	V	884.61	P	109.60	12.39
52	Cr	2388.89	P	49.14	2.06
55	Mn	341.11	P	3.85	1.13
57	Fe	2701.11	P	177.70	6.58
59	Co	115.56	P	37.91	32.81
60	Ni	206.67	P	12.02	5.82
65	Cu	422.22	P	30.06	7.12
66	Zn	1413.33	P	56.96	4.03
72	Ge	180440.20	P	158.70	0.09
75	As	104.41	P	105.20	100.75
82	Se	36.00	P	14.34	39.83
95	Mo	115.56	P	33.72	29.18
109	Ag	52.22	P	6.94	13.29
111	Cd	289.93	P	46.06	15.89
115	In	1368410.00	A	7751.00	0.57
121	Sb	464.44	P	30.97	6.67
137	Ba	55.56	P	7.70	13.86
205	Tl	355.56	P	8.39	2.36
208	Pb	400.00	P	52.39	13.10
209	Bi	1333700.00	A	8509.00	0.64

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\004CALI.D\004CALI.D#
Date Acquired: Mar 24 2006 03:46 pm
Operator:
Sample Name: CS1,S2889
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 03:42 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	988584.31	A	14250.00	1.44
9 Be	326.67	P	21.86	6.69
23 Na	202917.80	P	2848.00	1.40
26 Mg	14972.22	P	65.52	0.44
27 Al	10315.56	P	1244.00	12.06
39 K	272992.19	P	890.10	0.33
44 Ca	4467.14	P	154.80	3.47
45 Sc	554806.63	P	3427.00	0.62
51 V	1905.36	P	245.40	12.88
52 Cr	3317.78	P	66.78	2.01
55 Mn	2034.44	P	56.80	2.79
57 Fe	5817.78	P	117.10	2.01
59 Co	1475.56	P	71.21	4.83
60 Ni	570.00	P	43.33	7.60
65 Cu	977.71	P	21.17	2.17
66 Zn	1907.70	P	62.03	3.25
72 Ge	178790.91	P	886.40	0.50
75 As	251.72	P	27.27	10.83
82 Se	55.78	P	9.44	16.92
95 Mo	477.78	P	37.47	7.84
109 Ag	1043.33	P	35.12	3.37
111 Cd	488.90	P	35.84	7.33
115 In	1341015.00	A	6675.00	0.50
121 Sb	1193.33	P	51.75	4.34
137 Ba	391.11	P	10.72	2.74
205 Tl	2348.89	P	38.63	1.64
208 Pb	3326.67	P	105.90	3.18
209 Bi	1312303.00	A	12540.00	0.96

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	988584.31	1.44	988199.56	100.0	80 - 120	

45	Sc	554806.63	0.62	562292.19	98.7	80 -	120
72	Ge	178790.89	0.50	180440.23	99.1	80 -	120
115	In	1341014.50	0.50	1368409.90	98.0	80 -	120
209	Bi	1312303.50	0.96	1333700.40	98.4	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\005CALI.D\005CALI.D#
Date Acquired: Mar 24 2006 03:52 pm
Operator:
Sample Name: CS2,S2890
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 03:48 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	983386.19	A	20930.00	2.13
9 Be	582.22	P	26.74	4.59
23 Na	341757.81	P	1515.00	0.44
26 Mg	28675.56	P	189.60	0.66
27 Al	10312.22	P	184.10	1.79
39 K	355686.69	P	1252.00	0.35
44 Ca	6701.30	P	215.50	3.22
45 Sc	554336.88	M	9431.00	1.70
51 V	2396.94	P	53.61	2.24
52 Cr	4232.22	P	26.94	0.64
55 Mn	3626.67	P	78.81	2.17
57 Fe	9024.44	P	150.20	1.66
59 Co	2808.89	P	123.60	4.40
60 Ni	833.33	P	49.10	5.89
65 Cu	1299.88	P	78.10	6.01
66 Zn	2240.97	P	59.66	2.66
72 Ge	178246.41	P	1375.00	0.77
75 As	486.77	P	125.60	25.80
82 Se	82.00	P	11.10	13.54
95 Mo	774.44	P	15.75	2.03
109 Ag	1952.22	P	67.52	3.46
111 Cd	746.83	P	54.02	7.23
115 In	1332685.00	A	9908.00	0.74
121 Sb	1911.11	P	45.01	2.36
137 Ba	764.44	P	25.24	3.30
205 Tl	4411.11	P	140.00	3.17
208 Pb	6561.11	P	36.57	0.56
209 Bi	1292847.00	A	16910.00	1.31

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	983386.19	2.13	988199.56	99.5	80 - 120	

45	Sc	554336.88	1.70	562292.19	98.6	80 - 120
72	Ge	178246.44	0.77	180440.23	98.8	80 - 120
115	In	1332685.30	0.74	1368409.90	97.4	80 - 120
209	Bi	1292846.90	1.31	1333700.40	96.9	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\006CALI.D\006CALI.D#
Date Acquired: Mar 24 2006 03:57 pm
Operator:
Sample Name: CS3,S2891
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 03:54 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	985103.31	A	8703.00	0.88
9 Be	1195.56	P	36.72	3.07
23 Na	688407.38	A	3988.00	0.58
26 Mg	57041.11	P	294.30	0.52
27 Al	13238.89	P	252.20	1.91
39 K	529102.19	P	763.10	0.14
44 Ca	11580.14	P	164.50	1.42
45 Sc	554111.13	P	3908.00	0.71
51 V	5051.42	P	449.10	8.89
52 Cr	6488.89	P	302.00	4.65
55 Mn	6868.89	P	209.40	3.05
57 Fe	15464.44	P	82.28	0.53
59 Co	5502.22	P	218.30	3.97
60 Ni	1495.56	P	40.05	2.68
65 Cu	2327.53	P	133.70	5.74
66 Zn	3024.16	P	25.46	0.84
72 Ge	180561.80	P	500.50	0.28
75 As	946.08	P	64.35	6.80
82 Se	125.78	P	16.52	13.13
95 Mo	1513.33	P	64.38	4.25
109 Ag	4044.44	P	156.90	3.88
111 Cd	1188.60	P	74.62	6.28
115 In	1334888.00	A	4909.00	0.37
121 Sb	3355.55	P	105.70	3.15
137 Ba	1280.00	P	47.26	3.69
205 Tl	8486.67	P	141.80	1.67
208 Pb	12502.22	P	158.10	1.26
209 Bi	1300466.00	A	6211.00	0.48

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	985103.31	0.88	988199.56	99.7	80 - 120	

45	Sc	554111.06	0.71	562292.19	98.5	80 -	120
72	Ge	180561.77	0.28	180440.23	100.1	80 -	120
115	In	1334887.50	0.37	1368409.90	97.6	80 -	120
209	Bi	1300466.30	0.48	1333700.40	97.5	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\007CALI.D\007CALI.D#
Date Acquired: Mar 24 2006 04:03 pm
Operator:
Sample Name: CS4,S2892
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 03:59 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	1013057.00	A	4024.00	0.40
9 Be	11861.11	P	195.00	1.64
23 Na	5832080.00	A	6041.00	0.10
26 Mg	566326.63	P	3938.00	0.70
27 Al	54172.22	P	546.60	1.01
39 K	3592013.00	A	32590.00	0.91
44 Ca	97328.51	P	309.90	0.32
45 Sc	552032.19	P	2550.00	0.46
51 V	43931.11	P	1029.00	2.34
52 Cr	41168.89	P	360.30	0.88
55 Mn	58915.55	P	361.00	0.61
57 Fe	128450.00	P	1593.00	1.24
59 Co	53722.22	P	576.60	1.07
60 Ni	12272.22	P	121.60	0.99
65 Cu	15954.22	P	391.80	2.46
66 Zn	11101.61	P	118.60	1.07
72 Ge	180956.00	P	1160.00	0.64
75 As	7441.71	P	66.56	0.89
82 Se	807.56	P	57.47	7.12
95 Mo	14624.44	P	99.13	0.68
109 Ag	39456.67	P	803.00	2.04
111 Cd	9067.72	P	165.20	1.82
115 In	1319021.00	A	9345.00	0.71
121 Sb	28952.22	P	399.00	1.38
137 Ba	11704.44	P	38.63	0.33
205 Tl	78612.22	P	2265.00	2.88
208 Pb	119622.20	P	721.70	0.60
209 Bi	1297106.00	A	16000.00	1.23

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1013056.60	0.40	988199.56	102.5	80 - 120	

45	Sc	552032.19	0.46	562292.19	98.2	80 -	120
72	Ge	180956.00	0.64	180440.23	100.3	80 -	120
115	In	1319021.30	0.71	1368409.90	96.4	80 -	120
209	Bi	1297106.00	1.23	1333700.40	97.3	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\008CALI.D\008CALI.D#
Date Acquired: Mar 24 2006 04:09 pm
Operator:
Sample Name: CS5,S2886
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 04:05 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	997164.81	A	7526.00	0.75
9	Be	117577.80	P	984.80	0.84
23	Na	55690040.00	A	264000.00	0.47
26	Mg	5606693.00	A	73650.00	1.31
27	Al	447697.69	P	891.30	0.20
39	K	32802080.00	A	398000.00	1.21
44	Ca	972650.31	A	8226.00	0.85
45	Sc	546950.00	P	9618.00	1.76
51	V	429694.59	P	3616.00	0.84
52	Cr	387310.00	P	2856.00	0.74
55	Mn	563601.13	P	5703.00	1.01
57	Fe	1277209.00	A	14640.00	1.15
59	Co	521696.59	P	6118.00	1.17
60	Ni	113996.70	P	552.30	0.48
65	Cu	140295.70	P	1531.00	1.09
66	Zn	87865.30	P	1053.00	1.20
72	Ge	178472.91	P	2302.00	1.29
75	As	71733.88	P	463.20	0.65
82	Se	7376.44	P	94.50	1.28
95	Mo	144456.70	P	655.50	0.45
109	Ag	374954.41	P	2785.00	0.74
111	Cd	82518.75	P	744.80	0.90
115	In	1276593.00	A	7314.00	0.57
121	Sb	262628.91	P	1502.00	0.57
137	Ba	113897.80	P	1607.00	1.41
205	Tl	814328.88	P	8399.00	1.03
208	Pb	1154651.00	P	12360.00	1.07
209	Bi	1220765.00	A	9341.00	0.77

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	997164.75	0.75	988199.56	100.9	80 - 120	

45	Sc	546950.00	1.76	562292.19	97.3	80 -	120
72	Ge	178472.89	1.29	180440.23	98.9	80 -	120
115	In	1276592.60	0.57	1368409.90	93.3	80 -	120
209	Bi	1220764.50	0.77	1333700.40	91.5	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\009CALI.D\009CALI.D#
Date Acquired: Mar 24 2006 04:14 pm
Operator:
Sample Name: CS6,S2887
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 04:10 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	969750.81	A	13270.00	1.37
9	Be	227935.50	P	2011.00	0.88
23	Na	109416300.00	A	1294000.00	1.18
26	Mg	10779680.00	A	214700.00	1.99
27	Al	897228.88	A	10640.00	1.19
39	K	63376860.00	A	47640.00	0.08
44	Ca	1918831.00	A	26230.00	1.37
45	Sc	547532.19	P	4418.00	0.81
51	V	878675.19	A	3703.00	0.42
52	Cr	760898.69	M	5958.00	0.78
55	Mn	1141159.00	A	20010.00	1.75
57	Fe	2482416.00	A	19690.00	0.79
59	Co	1047991.00	A	8862.00	0.85
60	Ni	221525.50	P	186.80	0.08
65	Cu	270644.00	P	960.70	0.35
66	Zn	165786.09	P	126.90	0.08
72	Ge	177688.00	P	688.10	0.39
75	As	141459.20	P	636.00	0.45
82	Se	14143.11	P	72.27	0.51
95	Mo	285186.69	P	476.60	0.17
109	Ag	727951.13	P	1026.00	0.14
111	Cd	158931.50	P	617.80	0.39
115	In	1239353.00	A	6776.00	0.55
121	Sb	505296.59	P	1214.00	0.24
137	Ba	224328.91	P	625.60	0.28
205	Tl	1646884.00	A	9703.00	0.59
208	Pb	2243062.00	A	8326.00	0.37
209	Bi	1188714.00	A	4321.00	0.36

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	969750.81	1.37	988199.56	98.1	80 - 120	

45	Sc	547532.19	0.81	562292.19	97.4	80 -	120
72	Ge	177688.00	0.39	180440.23	98.5	80 -	120
115	In	1239352.60	0.55	1368409.90	90.6	80 -	120
209	Bi	1188713.90	0.36	1333700.40	89.1	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449010 File : c2415010 Time : 24-MAR-2006 16:19
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2895

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	0.8730	0.4231	100.0	102.6	ug/L	3	10	
Antimony	0.1269	0.1074	100.0	105.1	ug/L	5	10	
Arsenic	0.2281	0.2052	100.0	102.8	ug/L	3	10	
Barium	0.0496	0.0462	100.0	102.3	ug/L	2	10	
Beryllium	0.0604	0.0600	100.0	102.0	ug/L	2	10	
Cadmium	0.3334	0.2329	100.0	103.3	ug/L	3	10	
Calcium	0.0098	0.0093	10000	10530	ug/L	5	10	
Chromium	1.4929	1.0962	100.0	101.9	ug/L	2	10	
Cobalt	1.5284	1.4811	100.0	100.6	ug/L	1	10	
Copper	0.5177	0.3977	100.0	103.6	ug/L	4	10	
Iron	0.0399	0.0366	10000	10410	ug/L	4	10	
Lead	0.4835	0.4753	100.0	100.7	ug/L	1	10	
Magnesium	0.0510	0.0521	10000	10500	ug/L	5	10	
Manganese	1.8374	1.5975	100.0	99.80	ug/L	0	10	
Molybdenum	0.4127	0.4099	100.0	101.9	ug/L	2	10	
Nickel	0.4149	0.3241	100.0	103.4	ug/L	3	10	
Potassium	0.4068	0.3080	10000	10540	ug/L	5	10	
Selenium	0.0287	0.0209	100.0	104.2	ug/L	4	10	
Silver	1.0912	1.0643	100.0	103.4	ug/L	3	10	
Sodium	0.5550	0.5247	10000	10460	ug/L	5	10	
Thallium	0.3301	0.3378	100.0	98.26	ug/L	-2	10	
Vanadium	1.2795	1.2206	100.0	99.18	ug/L	-1	10	
Zinc	0.5762	0.2498	100.0	105.3	ug/L	5	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	958842	-2.97
Scandium	562292	528272	-6.05
Germanium	180440	174083	-3.52
Indium	1368410	1218569	-10.95
Bismuth	1333700	1195887	-10.33

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449024 File : c2415024 Time : 24-MAR-2006 17:37
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.4129	150.0	151.0	ug/L	1	10	
Antimony	0.1269	0.0990	150.0	145.4	ug/L	-3	10	
Arsenic	0.2281	0.2000	150.0	150.4	ug/L	0	10	
Barium	0.0496	0.0446	150.0	148.2	ug/L	-1	10	
Beryllium	0.0604	0.0589	150.0	150.1	ug/L	0	10	
Cadmium	0.3334	0.2238	150.0	149.0	ug/L	-1	10	
Calcium	0.0098	0.0088	15000	14940	ug/L	0	10	
Chromium	1.4929	1.0549	150.0	147.3	ug/L	-2	10	
Cobalt	1.5284	1.4238	150.0	145.1	ug/L	-3	10	
Copper	0.5177	0.3830	150.0	149.8	ug/L	0	10	
Iron	0.0399	0.0346	15000	14780	ug/L	-1	10	
Lead	0.4835	0.4685	150.0	148.9	ug/L	-1	10	
Magnesium	0.0510	0.0498	15000	15070	ug/L	0	10	
Manganese	1.8374	1.5333	150.0	143.7	ug/L	-4	10	
Molybdenum	0.4127	0.3979	150.0	148.5	ug/L	-1	10	
Nickel	0.4149	0.3113	150.0	149.1	ug/L	-1	10	
Potassium	0.4068	0.2962	15000	15230	ug/L	2	10	
Selenium	0.0287	0.0204	150.0	152.6	ug/L	2	10	
Silver	1.0912	1.0203	150.0	148.6	ug/L	-1	10	
Sodium	0.5550	0.5002	15000	14960	ug/L	0	10	
Thallium	0.3301	0.3509	150.0	153.1	ug/L	2	10	
Vanadium	1.2795	1.1809	150.0	144.0	ug/L	-4	10	
Zinc	0.5762	0.2375	150.0	150.8	ug/L	1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	974542	-1.38
Scandium	562292	535254	-4.81
Germanium	180440	170147	-5.70
Indium	1368410	1196955	-12.53
Bismuth	1333700	1140941	-14.45

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449039 File : c2415039 Time : 24-MAR-2006 19:00
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.4015	150.0	146.8	ug/L	-2	10	
Antimony	0.1269	0.1007	150.0	147.8	ug/L	-1	10	
Arsenic	0.2281	0.2009	150.0	151.1	ug/L	1	10	
Barium	0.0496	0.0443	150.0	147.2	ug/L	-2	10	
Beryllium	0.0604	0.0584	150.0	149.1	ug/L	-1	10	
Cadmium	0.3334	0.2271	150.0	151.3	ug/L	1	10	
Calcium	0.0098	0.0089	15000	15250	ug/L	2	10	
Chromium	1.4929	1.0600	150.0	148.1	ug/L	-1	10	
Cobalt	1.5284	1.4254	150.0	145.3	ug/L	-3	10	
Copper	0.5177	0.3797	150.0	148.5	ug/L	-1	10	
Iron	0.0399	0.0347	15000	14850	ug/L	-1	10	
Lead	0.4835	0.4635	150.0	147.3	ug/L	-2	10	
Magnesium	0.0510	0.0503	15000	15200	ug/L	1	10	
Manganese	1.8374	1.5394	150.0	144.3	ug/L	-4	10	
Molybdenum	0.4127	0.4016	150.0	149.8	ug/L	0	10	
Nickel	0.4149	0.3094	150.0	148.1	ug/L	-1	10	
Potassium	0.4068	0.3002	15000	15440	ug/L	3	10	
Selenium	0.0287	0.0204	150.0	152.2	ug/L	1	10	
Silver	1.0912	1.0257	150.0	149.4	ug/L	0	10	
Sodium	0.5550	0.5050	15000	15100	ug/L	1	10	
Thallium	0.3301	0.3447	150.0	150.4	ug/L	0	10	
Vanadium	1.2795	1.1903	150.0	145.2	ug/L	-3	10	
Zinc	0.5762	0.2357	150.0	149.7	ug/L	0	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	953180	-3.54
Scandium	562292	509681	-9.36
Germanium	180440	163182	-9.56
Indium	1368410	1155967	-15.52
Bismuth	1333700	1119152	-16.09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449053 File : c2415053 Time : 24-MAR-2006 20:18
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.4036	150.0	147.6	ug/L	-2	10	
Antimony	0.1269	0.1014	150.0	149.0	ug/L	-1	10	
Arsenic	0.2281	0.1989	150.0	149.6	ug/L	0	10	
Barium	0.0496	0.0447	150.0	148.7	ug/L	-1	10	
Beryllium	0.0604	0.0579	150.0	147.6	ug/L	-2	10	
Cadmium	0.3334	0.2257	150.0	150.3	ug/L	0	10	
Calcium	0.0098	0.0090	15000	15330	ug/L	2	10	
Chromium	1.4929	1.0611	150.0	148.2	ug/L	-1	10	
Cobalt	1.5284	1.4204	150.0	144.8	ug/L	-3	10	
Copper	0.5177	0.3793	150.0	148.4	ug/L	-1	10	
Iron	0.0399	0.0351	15000	15010	ug/L	0	10	
Lead	0.4835	0.4670	150.0	148.4	ug/L	-1	10	
Magnesium	0.0510	0.0501	15000	15140	ug/L	1	10	
Manganese	1.8374	1.5439	150.0	144.7	ug/L	-4	10	
Molybdenum	0.4127	0.4017	150.0	149.9	ug/L	0	10	
Nickel	0.4149	0.3087	150.0	147.8	ug/L	-1	10	
Potassium	0.4068	0.2959	15000	15220	ug/L	1	10	
Selenium	0.0287	0.0201	150.0	150.3	ug/L	0	10	
Silver	1.0912	1.0297	150.0	150.0	ug/L	0	10	
Sodium	0.5550	0.5104	15000	15260	ug/L	2	10	
Thallium	0.3301	0.3480	150.0	151.9	ug/L	1	10	
Vanadium	1.2795	1.1920	150.0	145.4	ug/L	-3	10	
Zinc	0.5762	0.2370	150.0	150.5	ug/L	0	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	938741	-5.00
Scandium	562292	499396	-11.19
Germanium	180440	159991	-11.33
Indium	1368410	1139949	-16.70
Bismuth	1333700	1112291	-16.60

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449069 File : c2415069 Time : 24-MAR-2006 21:46
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3905	150.0	142.7	ug/L	-5	10	
Antimony	0.1269	0.1011	150.0	148.5	ug/L	-1	10	
Arsenic	0.2281	0.2001	150.0	150.5	ug/L	0	10	
Barium	0.0496	0.0442	150.0	147.0	ug/L	-2	10	
Beryllium	0.0604	0.0589	150.0	150.2	ug/L	0	10	
Cadmium	0.3334	0.2261	150.0	150.6	ug/L	0	10	
Calcium	0.0098	0.0089	15000	15210	ug/L	1	10	
Chromium	1.4929	1.0480	150.0	146.4	ug/L	-2	10	
Cobalt	1.5284	1.4064	150.0	143.3	ug/L	-4	10	
Copper	0.5177	0.3769	150.0	147.4	ug/L	-2	10	
Iron	0.0399	0.0347	15000	14840	ug/L	-1	10	
Lead	0.4835	0.4577	150.0	145.5	ug/L	-3	10	
Magnesium	0.0510	0.0493	15000	14910	ug/L	-1	10	
Manganese	1.8374	1.5318	150.0	143.6	ug/L	-4	10	
Molybdenum	0.4127	0.4024	150.0	150.2	ug/L	0	10	
Nickel	0.4149	0.3087	150.0	147.8	ug/L	-1	10	
Potassium	0.4068	0.2976	15000	15310	ug/L	2	10	
Selenium	0.0287	0.0204	150.0	152.2	ug/L	1	10	
Silver	1.0912	1.0257	150.0	149.4	ug/L	0	10	
Sodium	0.5550	0.4976	15000	14880	ug/L	-1	10	
Thallium	0.3301	0.3441	150.0	150.2	ug/L	0	10	
Vanadium	1.2795	1.1868	150.0	144.7	ug/L	-4	10	
Zinc	0.5762	0.2343	150.0	148.8	ug/L	-1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	867540	-12.21
Scandium	562292	477594	-15.06
Germanium	180440	152734	-15.35
Indium	1368410	1090823	-20.29
Bismuth	1333700	1069936	-19.78

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449083 File : c2415083 Time : 24-MAR-2006 23:04
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3890	150.0	142.2	ug/L	-5	10	
Antimony	0.1269	0.1006	150.0	147.7	ug/L	-2	10	
Arsenic	0.2281	0.2005	150.0	150.8	ug/L	1	10	
Barium	0.0496	0.0442	150.0	146.9	ug/L	-2	10	
Beryllium	0.0604	0.0578	150.0	147.5	ug/L	-2	10	
Cadmium	0.3334	0.2266	150.0	151.0	ug/L	1	10	
Calcium	0.0098	0.0088	15000	14980	ug/L	0	10	
Chromium	1.4929	1.0475	150.0	146.3	ug/L	-2	10	
Cobalt	1.5284	1.4041	150.0	143.1	ug/L	-5	10	
Copper	0.5177	0.3773	150.0	147.6	ug/L	-2	10	
Iron	0.0399	0.0349	15000	14930	ug/L	0	10	
Lead	0.4835	0.4601	150.0	146.2	ug/L	-3	10	
Magnesium	0.0510	0.0489	15000	14770	ug/L	-2	10	
Manganese	1.8374	1.5247	150.0	142.9	ug/L	-5	10	
Molybdenum	0.4127	0.4026	150.0	150.2	ug/L	0	10	
Nickel	0.4149	0.3090	150.0	147.9	ug/L	-1	10	
Potassium	0.4068	0.2930	15000	15070	ug/L	0	10	
Selenium	0.0287	0.0205	150.0	153.0	ug/L	2	10	
Silver	1.0912	1.0286	150.0	149.9	ug/L	0	10	
Sodium	0.5550	0.4899	15000	14650	ug/L	-2	10	
Thallium	0.3301	0.3434	150.0	149.9	ug/L	0	10	
Vanadium	1.2795	1.1846	150.0	144.5	ug/L	-4	10	
Zinc	0.5762	0.2341	150.0	148.7	ug/L	-1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	864072	-12.56
Scandium	562292	469597	-16.49
Germanium	180440	149631	-17.07
Indium	1368410	1083146	-20.85
Bismuth	1333700	1052352	-21.10

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449097 File : c2415097 Time : 25-MAR-2006 00:22
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3725	150.0	136.1	ug/L	-9	10	
Antimony	0.1269	0.0981	150.0	144.0	ug/L	-4	10	
Arsenic	0.2281	0.1963	150.0	147.7	ug/L	-2	10	
Barium	0.0496	0.0433	150.0	144.0	ug/L	-4	10	
Beryllium	0.0604	0.0564	150.0	143.9	ug/L	-4	10	
Cadmium	0.3334	0.2281	150.0	152.0	ug/L	1	10	
Calcium	0.0098	0.0087	15000	14830	ug/L	-1	10	
Chromium	1.4929	1.0532	150.0	147.1	ug/L	-2	10	
Cobalt	1.5284	1.4082	150.0	143.5	ug/L	-4	10	
Copper	0.5177	0.3704	150.0	144.9	ug/L	-3	10	
Iron	0.0399	0.0350	15000	14960	ug/L	0	10	
Lead	0.4835	0.4510	150.0	143.3	ug/L	-4	10	
Magnesium	0.0510	0.0470	15000	14210	ug/L	-5	10	
Manganese	1.8374	1.5455	150.0	144.9	ug/L	-3	10	
Molybdenum	0.4127	0.3955	150.0	147.6	ug/L	-2	10	
Nickel	0.4149	0.3040	150.0	145.5	ug/L	-3	10	
Potassium	0.4068	0.2874	15000	14780	ug/L	-1	10	
Selenium	0.0287	0.0202	150.0	150.8	ug/L	1	10	
Silver	1.0912	1.0216	150.0	148.8	ug/L	-1	10	
Sodium	0.5550	0.4786	15000	14310	ug/L	-5	10	
Thallium	0.3301	0.3353	150.0	146.3	ug/L	-2	10	
Vanadium	1.2795	1.1797	150.0	143.9	ug/L	-4	10	
Zinc	0.5762	0.2328	150.0	147.8	ug/L	-1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	850311	-13.95
Scandium	562292	475066	-15.51
Germanium	180440	150588	-16.54
Indium	1368410	1119011	-18.23
Bismuth	1333700	1086373	-18.54

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449107 File : c2415107 Time : 25-MAR-2006 01:18
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3939	150.0	144.0	ug/L	-4	10	
Antimony	0.1269	0.1003	150.0	147.3	ug/L	-2	10	
Arsenic	0.2281	0.1975	150.0	148.5	ug/L	-1	10	
Barium	0.0496	0.0443	150.0	147.4	ug/L	-2	10	
Beryllium	0.0604	0.0568	150.0	144.8	ug/L	-3	10	
Cadmium	0.3334	0.2281	150.0	151.9	ug/L	1	10	
Calcium	0.0098	0.0089	15000	15180	ug/L	1	10	
Chromium	1.4929	1.0646	150.0	148.7	ug/L	-1	10	
Cobalt	1.5284	1.4165	150.0	144.4	ug/L	-4	10	
Copper	0.5177	0.3741	150.0	146.3	ug/L	-2	10	
Iron	0.0399	0.0350	15000	14970	ug/L	0	10	
Lead	0.4835	0.4613	150.0	146.6	ug/L	-2	10	
Magnesium	0.0510	0.0486	15000	14680	ug/L	-2	10	
Manganese	1.8374	1.5548	150.0	145.7	ug/L	-3	10	
Molybdenum	0.4127	0.4007	150.0	149.5	ug/L	0	10	
Nickel	0.4149	0.3090	150.0	147.9	ug/L	-1	10	
Potassium	0.4068	0.2900	15000	14910	ug/L	-1	10	
Selenium	0.0287	0.0205	150.0	153.2	ug/L	2	10	
Silver	1.0912	1.0347	150.0	150.7	ug/L	0	10	
Sodium	0.5550	0.4900	15000	14650	ug/L	-2	10	
Thallium	0.3301	0.3535	150.0	154.3	ug/L	3	10	
Vanadium	1.2795	1.1929	150.0	145.5	ug/L	-3	10	
Zinc	0.5762	0.2366	150.0	150.3	ug/L	0	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	839407	-15.06
Scandium	562292	458026	-18.54
Germanium	180440	146831	-18.63
Indium	1368410	1077183	-21.28
Bismuth	1333700	1042410	-21.84

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449121 File : c2415121 Time : 25-MAR-2006 02:35
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3883	150.0	141.9	ug/L	-5	10	
Antimony	0.1269	0.1005	150.0	147.6	ug/L	-2	10	
Arsenic	0.2281	0.2013	150.0	151.4	ug/L	1	10	
Barium	0.0496	0.0444	150.0	147.6	ug/L	-2	10	
Beryllium	0.0604	0.0572	150.0	145.8	ug/L	-3	10	
Cadmium	0.3334	0.2289	150.0	152.4	ug/L	2	10	
Calcium	0.0098	0.0090	15000	15330	ug/L	2	10	
Chromium	1.4929	1.0671	150.0	149.0	ug/L	-1	10	
Cobalt	1.5284	1.4221	150.0	144.9	ug/L	-3	10	
Copper	0.5177	0.3755	150.0	146.9	ug/L	-2	10	
Iron	0.0399	0.0353	15000	15110	ug/L	1	10	
Lead	0.4835	0.4629	150.0	147.1	ug/L	-2	10	
Magnesium	0.0510	0.0490	15000	14810	ug/L	-1	10	
Manganese	1.8374	1.5638	150.0	146.6	ug/L	-2	10	
Molybdenum	0.4127	0.4017	150.0	149.9	ug/L	0	10	
Nickel	0.4149	0.3077	150.0	147.3	ug/L	-2	10	
Potassium	0.4068	0.2977	15000	15310	ug/L	2	10	
Selenium	0.0287	0.0208	150.0	155.6	ug/L	4	10	
Silver	1.0912	1.0362	150.0	151.0	ug/L	1	10	
Sodium	0.5550	0.4969	15000	14860	ug/L	-1	10	
Thallium	0.3301	0.3483	150.0	152.0	ug/L	1	10	
Vanadium	1.2795	1.2049	150.0	147.0	ug/L	-2	10	
Zinc	0.5762	0.2378	150.0	151.1	ug/L	1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	806356	-18.40
Scandium	562292	440073	-21.74
Germanium	180440	142136	-21.23
Indium	1368410	1039855	-24.01
Bismuth	1333700	1008839	-24.36

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449133 File : c2415133 Time : 25-MAR-2006 03:42
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.4002	150.0	146.3	ug/L	-2	10	
Antimony	0.1269	0.1023	150.0	150.3	ug/L	0	10	
Arsenic	0.2281	0.2028	150.0	152.5	ug/L	2	10	
Barium	0.0496	0.0449	150.0	149.4	ug/L	0	10	
Beryllium	0.0604	0.0581	150.0	148.2	ug/L	-1	10	
Cadmium	0.3334	0.2332	150.0	155.3	ug/L	4	10	
Calcium	0.0098	0.0091	15000	15600	ug/L	4	10	
Chromium	1.4929	1.0854	150.0	151.6	ug/L	1	10	
Cobalt	1.5284	1.4355	150.0	146.3	ug/L	-2	10	
Copper	0.5177	0.3813	150.0	149.2	ug/L	-1	10	
Iron	0.0399	0.0356	15000	15210	ug/L	1	10	
Lead	0.4835	0.4738	150.0	150.6	ug/L	0	10	
Magnesium	0.0510	0.0499	15000	15090	ug/L	1	10	
Manganese	1.8374	1.5904	150.0	149.1	ug/L	-1	10	
Molybdenum	0.4127	0.4100	150.0	153.0	ug/L	2	10	
Nickel	0.4149	0.3117	150.0	149.2	ug/L	-1	10	
Potassium	0.4068	0.2973	15000	15290	ug/L	2	10	
Selenium	0.0287	0.0209	150.0	156.3	ug/L	4	10	
Silver	1.0912	1.0499	150.0	153.0	ug/L	2	10	
Sodium	0.5550	0.4993	15000	14930	ug/L	0	10	
Thallium	0.3301	0.3542	150.0	154.6	ug/L	3	10	
Vanadium	1.2795	1.2217	150.0	149.0	ug/L	-1	10	
Zinc	0.5762	0.2396	150.0	152.2	ug/L	1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	813402	-17.69
Scandium	562292	443206	-21.18
Germanium	180440	140547	-22.11
Indium	1368410	1028681	-24.83
Bismuth	1333700	979894	-26.53

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449148 File : c2415148 Time : 25-MAR-2006 05:06
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3917	150.0	143.2	ug/L	-5	10	
Antimony	0.1269	0.0989	150.0	145.3	ug/L	-3	10	
Arsenic	0.2281	0.1986	150.0	149.4	ug/L	0	10	
Barium	0.0496	0.0436	150.0	144.8	ug/L	-3	10	
Beryllium	0.0604	0.0570	150.0	145.3	ug/L	-3	10	
Cadmium	0.3334	0.2187	150.0	145.6	ug/L	-3	10	
Calcium	0.0098	0.0089	15000	15150	ug/L	1	10	
Chromium	1.4929	1.0417	150.0	145.5	ug/L	-3	10	
Cobalt	1.5284	1.3878	150.0	141.4	ug/L	-6	10	
Copper	0.5177	0.3702	150.0	144.8	ug/L	-3	10	
Iron	0.0399	0.0343	15000	14670	ug/L	-2	10	
Lead	0.4835	0.4544	150.0	144.4	ug/L	-4	10	
Magnesium	0.0510	0.0482	15000	14580	ug/L	-3	10	
Manganese	1.8374	1.5022	150.0	140.8	ug/L	-6	10	
Molybdenum	0.4127	0.3937	150.0	146.9	ug/L	-2	10	
Nickel	0.4149	0.3045	150.0	145.8	ug/L	-3	10	
Potassium	0.4068	0.2967	15000	15260	ug/L	2	10	
Selenium	0.0287	0.0202	150.0	151.2	ug/L	1	10	
Silver	1.0912	1.0035	150.0	146.2	ug/L	-3	10	
Sodium	0.5550	0.4853	15000	14510	ug/L	-3	10	
Thallium	0.3301	0.3384	150.0	147.7	ug/L	-2	10	
Vanadium	1.2795	1.1779	150.0	143.7	ug/L	-4	10	
Zinc	0.5762	0.2275	150.0	144.4	ug/L	-4	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	898686	-9.06
Scandium	562292	474239	-15.66
Germanium	180440	147941	-18.01
Indium	1368410	1054434	-22.94
Bismuth	1333700	995910	-25.33

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449159 File : c2415159 Time : 25-MAR-2006 06:07
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3671	150.0	134.1	ug/L	-11	10	c- ***
Antimony	0.1269	0.0996	150.0	146.3	ug/L	-2	10	
Arsenic	0.2281	0.1981	150.0	149.0	ug/L	-1	10	
Barium	0.0496	0.0438	150.0	145.5	ug/L	-3	10	
Beryllium	0.0604	0.0577	150.0	147.1	ug/L	-2	10	
Cadmium	0.3334	0.2272	150.0	151.3	ug/L	1	10	
Calcium	0.0098	0.0086	15000	14640	ug/L	-2	10	
Chromium	1.4929	1.0198	150.0	142.4	ug/L	-5	10	
Cobalt	1.5284	1.3679	150.0	139.4	ug/L	-7	10	
Copper	0.5177	0.3644	150.0	142.5	ug/L	-5	10	
Iron	0.0399	0.0340	15000	14550	ug/L	-3	10	
Lead	0.4835	0.4497	150.0	142.9	ug/L	-5	10	
Magnesium	0.0510	0.0461	15000	13920	ug/L	-7	10	
Manganese	1.8374	1.5032	150.0	140.9	ug/L	-6	10	
Molybdenum	0.4127	0.4016	150.0	149.9	ug/L	0	10	
Nickel	0.4149	0.2968	150.0	142.1	ug/L	-5	10	
Potassium	0.4068	0.2839	15000	14600	ug/L	-3	10	
Selenium	0.0287	0.0204	150.0	152.9	ug/L	2	10	
Silver	1.0912	1.0218	150.0	148.9	ug/L	-1	10	
Sodium	0.5550	0.4623	15000	13820	ug/L	-8	10	
Thallium	0.3301	0.3353	150.0	146.3	ug/L	-2	10	
Vanadium	1.2795	1.1558	150.0	141.0	ug/L	-6	10	
Zinc	0.5762	0.2281	150.0	144.8	ug/L	-3	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	836473	-15.35
Scandium	562292	493671	-12.20
Germanium	180440	155900	-13.60
Indium	1368410	1140911	-16.63
Bismuth	1333700	1105121	-17.14

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449174 File : c2415174 Time : 25-MAR-2006 07:30
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3870	150.0	141.5	ug/L	-6	10	
Antimony	0.1269	0.0985	150.0	144.7	ug/L	-4	10	
Arsenic	0.2281	0.1978	150.0	148.8	ug/L	-1	10	
Barium	0.0496	0.0429	150.0	142.5	ug/L	-5	10	
Beryllium	0.0604	0.0570	150.0	145.5	ug/L	-3	10	
Cadmium	0.3334	0.2174	150.0	144.8	ug/L	-3	10	
Calcium	0.0098	0.0086	15000	14760	ug/L	-2	10	
Chromium	1.4929	1.0685	150.0	149.2	ug/L	-1	10	
Cobalt	1.5284	1.4105	150.0	143.7	ug/L	-4	10	
Copper	0.5177	0.3731	150.0	145.9	ug/L	-3	10	
Iron	0.0399	0.0347	15000	14830	ug/L	-1	10	
Lead	0.4835	0.4532	150.0	144.1	ug/L	-4	10	
Magnesium	0.0510	0.0478	15000	14460	ug/L	-4	10	
Manganese	1.8374	1.5356	150.0	143.9	ug/L	-4	10	
Molybdenum	0.4127	0.3941	150.0	147.1	ug/L	-2	10	
Nickel	0.4149	0.3076	150.0	147.3	ug/L	-2	10	
Potassium	0.4068	0.2871	15000	14760	ug/L	-2	10	
Selenium	0.0287	0.0200	150.0	149.5	ug/L	0	10	
Silver	1.0912	0.9902	150.0	144.3	ug/L	-4	10	
Sodium	0.5550	0.4764	15000	14240	ug/L	-5	10	
Thallium	0.3301	0.3207	150.0	140.0	ug/L	-7	10	
Vanadium	1.2795	1.2039	150.0	146.8	ug/L	-2	10	
Zinc	0.5762	0.2293	150.0	145.6	ug/L	-3	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	892339	-9.70
Scandium	562292	468084	-16.75
Germanium	180440	138839	-23.06
Indium	1368410	979740	-28.40
Bismuth	1333700	906100	-32.06

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449185 File : c2415185 Time : 25-MAR-2006 08:33
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3405	150.0	124.3	ug/L	**-17**	10	c- i+ ***
Antimony	0.1269	0.0964	150.0	141.6	ug/L	-6	10	
Arsenic	0.2281	0.1995	150.0	150.0	ug/L	0	10	
Barium	0.0496	0.0409	150.0	135.8	ug/L	-9	10	
Beryllium	0.0604	0.0601	150.0	153.4	ug/L	2	10	
Cadmium	0.3334	0.2280	150.0	151.9	ug/L	1	10	
Calcium	0.0098	0.0086	15000	14630	ug/L	-2	10	i+
Chromium	1.4929	1.1388	150.0	159.1	ug/L	6	10	
Cobalt	1.5284	1.4081	150.0	143.5	ug/L	-4	10	
Copper	0.5177	0.3658	150.0	143.1	ug/L	-5	10	
Iron	0.0399	0.0347	15000	14830	ug/L	-1	10	
Lead	0.4835	0.4466	150.0	141.9	ug/L	-5	10	
Magnesium	0.0510	0.0410	15000	12400	ug/L	**-17**	10	c- i+ ***
Manganese	1.8374	1.6208	150.0	151.9	ug/L	1	10	
Molybdenum	0.4127	0.4100	150.0	153.0	ug/L	2	10	
Nickel	0.4149	0.2971	150.0	142.2	ug/L	-5	10	
Potassium	0.4068	0.2821	15000	14510	ug/L	-3	10	i+
Selenium	0.0287	0.0207	150.0	154.7	ug/L	3	10	
Silver	1.0912	1.0584	150.0	154.2	ug/L	3	10	
Sodium	0.5550	0.3972	15000	11880	ug/L	**-21**	10	c- i+ ***
Thallium	0.3301	0.3256	150.0	142.1	ug/L	-5	10	
Vanadium	1.2795	1.3269	150.0	161.9	ug/L	8	10	
Zinc	0.5762	0.2281	150.0	144.8	ug/L	-3	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	1069484	8.23
Scandium	562292	756141	**34.47 ***
Germanium	180440	185899	3.03
Indium	1368410	1355459	-0.95
Bismuth	1333700	1186577	-11.03

+=high bias -=low bias c=CCV i=ISTD failure

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449012 File : c2415012 Time : 24-MAR-2006 16:30
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	0.2605	0.2500	0.03394	ug/L	ib ***
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	[0.04645]	0.2500	0.04566	ug/L	!ib
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.02192]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.07448]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	[0.2087]	1.000	0.09577	ug/L	!ib

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	969137	-1.93
Scandium	562292	523398	-6.92
Germanium	180440	172708	-4.29
Indium	1368410	1267032	-7.41
Bismuth	1333700	1243505	-6.76

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449041 File : c2415041 Time : 24-MAR-2006 19:11
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1722]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	[0.04493]	0.5000	0.04426	ug/L	!ib
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.08621]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	942974	-4.58
Scandium	562292	497013	-11.61
Germanium	180440	160729	-10.92
Indium	1368410	1193739	-12.76
Bismuth	1333700	1163252	-12.78

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449055 File : c2415055 Time : 24-MAR-2006 20:29
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1501]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.03973]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	948372	-4.03
Scandium	562292	501028	-10.90
Germanium	180440	161896	-10.28
Indium	1368410	1226800	-10.35
Bismuth	1333700	1216616	-8.78

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449071 File : c2415071 Time : 24-MAR-2006 21:57
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1124]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.2096]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2627]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1469]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	892991	-9.63
Scandium	562292	474552	-15.60
Germanium	180440	152380	-15.55
Indium	1368410	1132829	-17.22
Bismuth	1333700	1123713	-15.74

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449085 File : c2415085 Time : 24-MAR-2006 23:15
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.09912]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1488]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1119]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	872491	-11.71
Scandium	562292	466362	-17.06
Germanium	180440	149948	-16.90
Indium	1368410	1134348	-17.10
Bismuth	1333700	1121464	-15.91

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449099 File : c2415099 Time : 25-MAR-2006 00:34
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1144]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.05505]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	839745	-15.02
Scandium	562292	456637	-18.79
Germanium	180440	148479	-17.71
Indium	1368410	1142762	-16.49
Bismuth	1333700	1144155	-14.21

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449109 File : c2415109 Time : 25-MAR-2006 01:29
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1195]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1052]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.007220]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.01906]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2311]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	841646	-14.83
Scandium	562292	456716	-18.78
Germanium	180440	146645	-18.73
Indium	1368410	1137654	-16.86
Bismuth	1333700	1126462	-15.54

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449123 File : c2415123 Time : 25-MAR-2006 02:46
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1115]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.008805]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.03841]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1190]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	830886	-15.92
Scandium	562292	449947	-19.98
Germanium	180440	144623	-19.85
Indium	1368410	1113418	-18.63
Bismuth	1333700	1102799	-17.31

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449135 File : c2415135 Time : 25-MAR-2006 03:53
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1473]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1323]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01136]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.06042]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2067]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.07285]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	841360	-14.86
Scandium	562292	445097	-20.84
Germanium	180440	143634	-20.40
Indium	1368410	1086631	-20.59
Bismuth	1333700	1083950	-18.73

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449150 File : c2415150 Time : 25-MAR-2006 05:17
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.07915]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.007527]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.03594]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.01483]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.05427]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	928026	-6.09
Scandium	562292	470981	-16.24
Germanium	180440	147653	-18.17
Indium	1368410	1106829	-19.12
Bismuth	1333700	1054733	-20.92

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449161 File : c2415161 Time : 25-MAR-2006 06:18
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.08556]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.01170]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.009293]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.02352]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.04556]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	838678	-15.13
Scandium	562292	505026	-10.18
Germanium	180440	161662	-10.41
Indium	1368410	1282761	-6.26
Bismuth	1333700	1249274	-6.33

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449176 File : c2415176 Time : 25-MAR-2006 07:41
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.09663]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.2578]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.008511]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.1183]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.04145]	0.2500	0.03982	ug/L	!ib
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2884]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.04804]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	877911	-11.16
Scandium	562292	451821	-19.65
Germanium	180440	137616	-23.73
Indium	1368410	1006582	-26.44
Bismuth	1333700	945762	-29.09

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449187 File : c2415187 Time : 25-MAR-2006 08:44
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.07775]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.006321]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.02567]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.03935]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	867621	-12.20
Scandium	562292	468086	-16.75
Germanium	180440	141351	-21.66
Indium	1368410	1068398	-21.92
Bismuth	1333700	1040296	-22.00

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449013 File : c2415013 Time : 24-MAR-2006 16:36
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.628	0.2500	ug/L	
Arsenic	0.6180	0.5000	ug/L	
Barium	0.9755	0.2500	ug/L	
Beryllium	[0.02031]	0.2500	ug/L	
Cadmium	[0.2247]	0.2500	ug/L	
Chromium	1.583	0.5000	ug/L	
Cobalt	2.963	0.2500	ug/L	
Copper	1.898	0.5000	ug/L	
Lead	1.286	0.2500	ug/L	
Manganese	1.091	0.2500	ug/L	
Nickel	1.635	0.2500	ug/L	
Selenium	[0.3064]	0.5000	ug/L	
Silver	[0.1484]	0.2500	ug/L	
Thallium	[0.1047]	0.5000	ug/L	
Vanadium	[0.1847]	1.000	ug/L	
Zinc	2.174	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	85760	ug/L	86
Calcium	300000	291300	ug/L	97
Iron	250000	262300	ug/L	105
Magnesium	100000	90810	ug/L	91
Molybdenum	2000	2215	ug/L	111
Potassium	100000	91870	ug/L	92
Sodium	250000	229400	ug/L	92

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	779542	-21.11
Scandium	562292	491304	-12.62
Germanium	180440	146225	-18.96
Indium	1368410	1095335	-19.96
Bismuth	1333700	938748	-29.61

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449014 File : c2415014 Time : 24-MAR-2006 16:41
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	81420	ug/L	-19		
Arsenic	100.0	95.70	ug/L	-4	20	
Cadmium	100.0	91.22	ug/L	-9	20	
Calcium	300000	290600	ug/L	-3		
Chromium	200.0	217.6	ug/L	9	20	
Cobalt	200.0	209.5	ug/L	5	20	
Copper	200.0	181.4	ug/L	-9	20	
Iron	250000	263500	ug/L	5		
Magnesium	100000	86490	ug/L	-14		
Manganese	200.0	222.3	ug/L	11	20	
Molybdenum	2000	2189	ug/L	9		
Nickel	200.0	192.6	ug/L	-4	20	
Potassium	100000	89750	ug/L	-10		
Selenium	100.0	87.46	ug/L	-13	20	
Silver	50.00	47.12	ug/L	-6	20	
Sodium	250000	220400	ug/L	-12		
Vanadium	200.0	227.4	ug/L	14	20	
Zinc	100.0	90.57	ug/L	-9	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	491567	-12.58
Germanium	180440	144551	-19.89

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449056 File : c2415056 Time : 24-MAR-2006 20:34
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.333	0.2500	ug/L	
Arsenic	0.7648	0.5000	ug/L	
Barium	0.9834	0.2500	ug/L	
Beryllium	[0.01236]	0.2500	ug/L	
Cadmium	[0.1918]	0.2500	ug/L	
Chromium	1.467	0.5000	ug/L	
Cobalt	2.837	0.2500	ug/L	
Copper	1.800	0.5000	ug/L	
Lead	1.307	0.2500	ug/L	
Manganese	1.013	0.2500	ug/L	
Nickel	1.565	0.2500	ug/L	
Selenium	[0.1911]	0.5000	ug/L	
Silver	[0.1340]	0.2500	ug/L	
Thallium	[0.06724]	0.5000	ug/L	
Vanadium	[0.1649]	1.000	ug/L	
Zinc	2.011	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	85760	ug/L	86
Calcium	300000	284700	ug/L	95
Iron	250000	247600	ug/L	99
Magnesium	100000	90640	ug/L	91
Molybdenum	2000	2176	ug/L	109
Potassium	100000	92900	ug/L	93
Sodium	250000	226200	ug/L	90

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	754441	-23.65
Scandium	562292	444889	-20.88
Germanium	180440	133804	-25.85
Indium	1368410	996236	-27.20
Bismuth	1333700	855786	-35.83

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449057 File : c2415057 Time : 24-MAR-2006 20:40
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	81230	ug/L	-19		
Arsenic	100.0	91.39	ug/L	-9	20	
Cadmium	100.0	86.66	ug/L	-13	20	
Calcium	300000	279400	ug/L	-7		
Chromium	200.0	200.7	ug/L	0	20	
Cobalt	200.0	187.8	ug/L	-6	20	
Copper	200.0	171.1	ug/L	-14	20	
Iron	250000	244000	ug/L	-2		
Magnesium	100000	85230	ug/L	-15		
Manganese	200.0	206.9	ug/L	3	20	
Molybdenum	2000	2126	ug/L	6		
Nickel	200.0	181.6	ug/L	-9	20	
Potassium	100000	88390	ug/L	-12		
Selenium	100.0	85.02	ug/L	-15	20	
Silver	50.00	44.61	ug/L	-11	20	
Sodium	250000	216700	ug/L	-13		
Vanadium	200.0	201.6	ug/L	1	20	
Zinc	100.0	85.22	ug/L	-15	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	446714	-20.55
Germanium	180440	133306	-26.12

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449137 File : c2415137 Time : 25-MAR-2006 04:05
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.347	0.2500	ug/L	
Arsenic	[0.3882]	0.5000	ug/L	
Barium	1.062	0.2500	ug/L	
Beryllium	[0.01946]	0.2500	ug/L	
Cadmium	[0.08500]	0.2500	ug/L	
Chromium	1.613	0.5000	ug/L	
Cobalt	2.924	0.2500	ug/L	
Copper	1.893	0.5000	ug/L	
Lead	1.282	0.2500	ug/L	
Manganese	1.061	0.2500	ug/L	
Nickel	1.579	0.2500	ug/L	
Selenium	[0.2680]	0.5000	ug/L	
Silver	[0.1405]	0.2500	ug/L	
Thallium	[0.1109]	0.5000	ug/L	
Vanadium	[0.2904]	1.000	ug/L	
Zinc	2.062	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	84650	ug/L	85
Calcium	300000	290700	ug/L	97
Iron	250000	248700	ug/L	99
Magnesium	100000	89140	ug/L	89
Molybdenum	2000	2186	ug/L	109
Potassium	100000	93300	ug/L	93
Sodium	250000	223400	ug/L	89

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	674836	-31.71
Scandium	562292	406723	-27.67
Germanium	180440	121976	-32.40
Indium	1368410	887703	-35.13
Bismuth	1333700	772371	-42.09

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449138 File : c2415138 Time : 25-MAR-2006 04:10
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	83500	ug/L	-17		
Arsenic	100.0	93.87	ug/L	-6	20	
Cadmium	100.0	86.67	ug/L	-13	20	
Calcium	300000	289100	ug/L	-4		
Chromium	200.0	203.9	ug/L	2	20	
Cobalt	200.0	190.0	ug/L	-5	20	
Copper	200.0	174.2	ug/L	-13	20	
Iron	250000	246800	ug/L	-1		
Magnesium	100000	87450	ug/L	-13		
Manganese	200.0	203.0	ug/L	2	20	
Molybdenum	2000	2178	ug/L	9		
Nickel	200.0	183.6	ug/L	-8	20	
Potassium	100000	93050	ug/L	-7		
Selenium	100.0	87.45	ug/L	-13	20	
Silver	50.00	44.81	ug/L	-10	20	
Sodium	250000	221000	ug/L	-12		
Vanadium	200.0	205.7	ug/L	3	20	
Zinc	100.0	88.10	ug/L	-12	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	397591	-29.29
Germanium	180440	118801	-34.16

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449162 File : c2415162 Time : 25-MAR-2006 06:24
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.433	0.2500	ug/L	
Arsenic	[0.4828]	0.5000	ug/L	
Barium	1.070	0.2500	ug/L	
Beryllium	[0.005177]	0.2500	ug/L	
Cadmium	[0.1791]	0.2500	ug/L	
Chromium	1.576	0.5000	ug/L	
Cobalt	2.864	0.2500	ug/L	
Copper	1.852	0.5000	ug/L	
Lead	1.309	0.2500	ug/L	
Manganese	1.049	0.2500	ug/L	
Nickel	1.557	0.2500	ug/L	
Selenium	[0]	0.5000	ug/L	
Silver	[0.1414]	0.2500	ug/L	
Thallium	[0.07787]	0.5000	ug/L	
Vanadium	[0.2272]	1.000	ug/L	
Zinc	1.947	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	89740	ug/L	90
Calcium	300000	301200	ug/L	100
Iron	250000	249800	ug/L	100
Magnesium	100000	93590	ug/L	94
Molybdenum	2000	2269	ug/L	113
Potassium	100000	98320	ug/L	98
Sodium	250000	231700	ug/L	93

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	699133	-29.25
Scandium	562292	407378	-27.55
Germanium	180440	123996	-31.28
Indium	1368410	865103	-36.78
Bismuth	1333700	757128	-43.23

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449163 File : c2415163 Time : 25-MAR-2006 06:29
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	88210	ug/L	-12		
Arsenic	100.0	96.77	ug/L	-3	20	
Cadmium	100.0	87.72	ug/L	-12	20	
Calcium	300000	300000	ug/L	0		
Chromium	200.0	208.2	ug/L	4	20	
Cobalt	200.0	196.1	ug/L	-2	20	
Copper	200.0	178.7	ug/L	-11	20	
Iron	250000	252100	ug/L	1		
Magnesium	100000	92600	ug/L	-7		
Manganese	200.0	203.3	ug/L	2	20	
Molybdenum	2000	2250	ug/L	13		
Nickel	200.0	188.9	ug/L	-6	20	
Potassium	100000	97250	ug/L	-3		
Selenium	100.0	90.51	ug/L	-9	20	
Silver	50.00	45.85	ug/L	-8	20	
Sodium	250000	229300	ug/L	-8		
Vanadium	200.0	210.6	ug/L	5	20	
Zinc	100.0	89.56	ug/L	-10	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	392361	-30.22
Germanium	180440	117744	-34.75

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449188 File : c2415188 Time : 25-MAR-2006 08:49
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.452	0.2500	ug/L	
Arsenic	[0.4067]	0.5000	ug/L	
Barium	0.9738	0.2500	ug/L	
Beryllium	[0.01078]	0.2500	ug/L	
Cadmium	[0.09223]	0.2500	ug/L	
Chromium	6.008	0.5000	ug/L	
Cobalt	2.928	0.2500	ug/L	
Copper	1.744	0.5000	ug/L	
Lead	1.288	0.2500	ug/L	
Manganese	1.046	0.2500	ug/L	
Nickel	1.640	0.2500	ug/L	
Selenium	[0.3177]	0.5000	ug/L	
Silver	[0.1392]	0.2500	ug/L	
Thallium	[0.06780]	0.5000	ug/L	
Vanadium	1.467	1.000	ug/L	
Zinc	2.024	1.000	ug/L	

Interferent	Spiked	Quant.	Units	%Rec
Aluminum	100000	88210	ug/L	88
Calcium	300000	299100	ug/L	100
Iron	250000	253400	ug/L	101
Magnesium	100000	92340	ug/L	92
Molybdenum	2000	2198	ug/L	110
Potassium	100000	96490	ug/L	96
Sodium	250000	231900	ug/L	93

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	692065	-29.97
Scandium	562292	386620	-31.24
Germanium	180440	109304	-39.42
Indium	1368410	745623	-45.51
Bismuth	1333700	635742	-52.33

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449189 File : c2415189 Time : 25-MAR-2006 08:55
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	83800	ug/L	-16		
Arsenic	100.0	92.87	ug/L	-7	20	
Cadmium	100.0	83.91	ug/L	-16	20	
Calcium	300000	288700	ug/L	-4		
Chromium	200.0	199.4	ug/L	0	20	
Cobalt	200.0	185.5	ug/L	-7	20	
Copper	200.0	172.5	ug/L	-14	20	
Iron	250000	237100	ug/L	-5		
Magnesium	100000	88510	ug/L	-11		
Manganese	200.0	192.1	ug/L	-4	20	
Molybdenum	2000	2179	ug/L	9		
Nickel	200.0	181.3	ug/L	-9	20	
Potassium	100000	95070	ug/L	-5		
Selenium	100.0	86.14	ug/L	-14	20	
Silver	50.00	44.07	ug/L	-12	20	
Sodium	250000	218500	ug/L	-13		
Vanadium	200.0	201.1	ug/L	1	20	
Zinc	100.0	85.66	ug/L	-14	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	374467	-33.40
Germanium	180440	109542	-39.29

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	c2415001	TUN				24-MAR-2006 15:29	1.0	1.0				1	
003	c2415003	ICALBLK	std-blk			24-MAR-2006 15:41	1.0	1.0				2	
004	c2415004	ICAL	CS1			24-MAR-2006 15:46	1.0	1.0				3	
005	c2415005	ICAL	CS2			24-MAR-2006 15:52	1.0	1.0				4	
006	c2415006	ICAL	CS3			24-MAR-2006 15:57	1.0	1.0				5	
007	c2415007	ICAL	CS4			24-MAR-2006 16:03	1.0	1.0				6	
008	c2415008	ICAL	CS5			24-MAR-2006 16:09	1.0	1.0				7	
009	c2415009	ICAL	CS6			24-MAR-2006 16:14	1.0	1.0				8	
010	c2415010	ICV				24-MAR-2006 16:19	1.0	1.0			1	9	
012	c2415012	ICB				24-MAR-2006 16:30	1.0	1.0	1		1	2	
013	c2415013	ICSA				24-MAR-2006 16:36	1.0	1.0			1	10 2	7:CA=291300
014	c2415014	ICSAB				24-MAR-2006 16:41	1.0	1.0			1	11 2	11:CA=290600
017	c2415017	BLANK	QC332055	111436	Filtra	24-MAR-2006 16:58	1.0	1.0			1	2	
018	c2415018	BS	QC332056	111436	Filtra	24-MAR-2006 17:03	1.0	1.0			1	2	
019	c2415019	X	QC332057	111436	Filtra	24-MAR-2006 17:09	1.0	1.0			1	2	
020	c2415020	MSS	185457-016	111436	Filtra	24-MAR-2006 17:14	1.0	1.0	5		1	2	4:MG=237800
021	c2415021	SER	QC332060	111436	Filtra	24-MAR-2006 17:20	5.0	1.0		2	1	2	2:MG=49680.0
022	c2415022	MSS	185457-016	111436	Filtra	24-MAR-2006 17:26	20.0	1.0			1	2	
023	c2415023	SER	QC332060	111436	Filtra	24-MAR-2006 17:31	100.0	1.0		1	1	2	
024	c2415024	CCV				24-MAR-2006 17:37	1.0	1.0			1	12 2	
026	c2415026	CCB				24-MAR-2006 17:48	1.0	1.0			1	2	
027	c2415027	MSS	185457-016	111436	Filtra	24-MAR-2006 17:53	1.0	1.0	4		1	2	4:MG=242900
028	c2415028	MS	QC332058	111436	Filtra	24-MAR-2006 17:59	1.0	1.0	1		1	2	4:MG=244700
029	c2415029	MSD	QC332059	111436	Filtra	24-MAR-2006 18:04	1.0	1.0	1		1	2	4:MG=244400
030	c2415030	PDS	QC332061	111436	Filtra	24-MAR-2006 18:10	1.0	1.0			1	13 2	4:MG=254800
031	c2415031	MS	QC332058	111436	Filtra	24-MAR-2006 18:15	20.0	1.0	1	1	1	2	
032	c2415032	MSD	QC332059	111436	Filtra	24-MAR-2006 18:21	20.0	1.0		1	1	2	
033	c2415033	PDS	QC332061	111436	Filtra	24-MAR-2006 18:26	20.0	1.0		1	1	13 2	
035	c2415035	BSD	QC332057	111436	Filtra	24-MAR-2006 18:38	1.0	1.0			1	2	
036	c2415036	SAMPLE	185457-001	111436	Filtra	24-MAR-2006 18:43	1.0	1.0	4		1	2	3:NA=96550.0
037	c2415037	SAMPLE	185457-002	111436	Filtra	24-MAR-2006 18:49	1.0	1.0	2		1	2	2:NA=99150.0

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [illegible] Date: 3/28/6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
039	c2415039	CCV				24-MAR-2006 19:00	1.0	1.0			1	12 2	
041	c2415041	CCB				24-MAR-2006 19:11	1.0	1.0			1	2	
042	c2415042	SAMPLE	185457-005	111436	Filtra	24-MAR-2006 19:16	1.0	1.0	3		1	2	3:MG=277200
043	c2415043	SAMPLE	185457-006	111436	Filtra	24-MAR-2006 19:22	1.0	1.0	5		1	2	5:MG=317500
044	c2415044	SAMPLE	185457-007	111436	Filtra	24-MAR-2006 19:27	1.0	1.0	2		1	2	2:MG=117600
045	c2415045	SAMPLE	185457-008	111436	Filtra	24-MAR-2006 19:33	1.0	1.0	2		1	2	2:MG=139900
046	c2415046	SAMPLE	185457-001	111436	Filtra	24-MAR-2006 19:39	20.0	1.0			1	2	
047	c2415047	SAMPLE	185457-002	111436	Filtra	24-MAR-2006 19:44	20.0	1.0			1	2	
048	c2415048	SAMPLE	185457-005	111436	Filtra	24-MAR-2006 19:50	20.0	1.0			1	2	
049	c2415049	SAMPLE	185457-006	111436	Filtra	24-MAR-2006 19:55	20.0	1.0			1	2	
050	c2415050	SAMPLE	185457-007	111436	Filtra	24-MAR-2006 20:01	20.0	1.0			1	2	
051	c2415051	SAMPLE	185457-008	111436	Filtra	24-MAR-2006 20:07	20.0	1.0			1	2	
053	c2415053	CCV				24-MAR-2006 20:18	1.0	1.0			1	12 2	
055	c2415055	CCB				24-MAR-2006 20:29	1.0	1.0			1	2	
056	c2415056	ICSA				24-MAR-2006 20:34	1.0	1.0			1	10 2	7:CA=284200
057	c2415057	ICSAB				24-MAR-2006 20:40	1.0	1.0			1	11 2	10:CA=279400
060	c2415060	BLANK	QC331831	111388	Filtra	24-MAR-2006 20:56	1.0	1.0			1	2	
061	c2415061	BS	QC331832	111388	Filtra	24-MAR-2006 21:02	1.0	1.0			1	2	
062	c2415062	BSD	QC331833	111388	Filtra	24-MAR-2006 21:07	1.0	1.0			1	2	
064	c2415064	MSS	185408-008	111388	Filtra	24-MAR-2006 21:18	1.0	1.0	1		1	2	1:NA=21510.0
065	c2415065	SER	QC331838	111388	Filtra	24-MAR-2006 21:24	5.0	1.0			1	2	
066	c2415066	MS	QC331836	111388	Filtra	24-MAR-2006 21:29	1.0	1.0	3		1	2	4:NA=32320.0
067	c2415067	MSD	QC331837	111388	Filtra	24-MAR-2006 21:35	1.0	1.0	2		1	2	3:NA=31390.0
069	c2415069	CCV				24-MAR-2006 21:46	1.0	1.0			1	12 2	
071	c2415071	CCB				24-MAR-2006 21:57	1.0	1.0			1	2	
072	c2415072	TUN				24-MAR-2006 22:03	1.0	1.0				1	
073	c2415073	PDS	QC331839	111388	Filtra	24-MAR-2006 22:09	1.0	1.0	2		1	13 2	3:NA=31210.0
074	c2415074	MSS	185408-010	111388	Filtra	24-MAR-2006 22:15	1.0	1.0	2		1	2	2:NA=42630.0
075	c2415075	MS	QC331834	111388	Filtra	24-MAR-2006 22:20	1.0	1.0	1		1	2	3:NA=53420.0
076	c2415076	MSD	QC331835	111388	Filtra	24-MAR-2006 22:26	1.0	1.0	1		1	2	3:NA=52930.0
077	c2415077	MSS	185408-008	111388	Filtra	24-MAR-2006 22:31	20.0	1.0			1	2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [illegible] Date: 3/25/6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
078	c2415078	SER	QC331838	111388	Filtra	24-MAR-2006 22:37	100.0	1.0			1	2	
079	c2415079	MS	QC331836	111388	Filtra	24-MAR-2006 22:42	20.0	1.0			1	2	
080	c2415080	MSD	QC331837	111388	Filtra	24-MAR-2006 22:48	20.0	1.0			1	2	
081	c2415081	PDS	QC331839	111388	Filtra	24-MAR-2006 22:53	20.0	1.0		2	1	13 2	
083	c2415083	CCV				24-MAR-2006 23:04	1.0	1.0			1	12 2	
085	c2415085	CCB				24-MAR-2006 23:15	1.0	1.0			1	2	
086	c2415086	MSS	185408-010	111388	Filtra	24-MAR-2006 23:21	20.0	1.0			1	2	
087	c2415087	MS	QC331834	111388	Filtra	24-MAR-2006 23:27	20.0	1.0			1	2	
088	c2415088	MSD	QC331835	111388	Filtra	24-MAR-2006 23:32	20.0	1.0			1	2	
089	c2415089	SAMPLE	185408-006	111388	Filtra	24-MAR-2006 23:38	1.0	1.0	3		1	2	3:MG=56540.0
090	c2415090	SAMPLE	185408-007	111388	Filtra	24-MAR-2006 23:43	1.0	1.0	3		1	2	3:MG=54910.0
091	c2415091	SAMPLE	185408-009	111388	Filtra	24-MAR-2006 23:49	1.0	1.0	1		1	2	1:NA=20340.0
092	c2415092	SAMPLE	185408-011	111388	Filtra	24-MAR-2006 23:55	1.0	1.0	2		1	2	2:NA=41040.0
093	c2415093	SAMPLE	185408-006	111388	Filtra	25-MAR-2006 00:00	20.0	1.0			1	2	
094	c2415094	SAMPLE	185408-007	111388	Filtra	25-MAR-2006 00:06	20.0	1.0			1	2	
095	c2415095	SAMPLE	185408-009	111388	Filtra	25-MAR-2006 00:11	20.0	1.0			1	2	
097	c2415097	CCV				25-MAR-2006 00:22	1.0	1.0			1	12 2	
099	c2415099	CCB				25-MAR-2006 00:34	1.0	1.0			1	2	
100	c2415100	SAMPLE	185408-011	111388	Filtra	25-MAR-2006 00:39	20.0	1.0			1	2	
101	c2415101	SAMPLE	185463-001	111388	Filtra	25-MAR-2006 00:45	1.0	1.0			1	2	
102	c2415102	SAMPLE	185463-001	111388	Filtra	25-MAR-2006 00:50	20.0	1.0			1	2	
104	c2415104	BLANK	QC331981	111421	Filtra	25-MAR-2006 01:01	1.0	1.0			1	2	
105	c2415105	BS	QC331982	111421	Filtra	25-MAR-2006 01:07	1.0	1.0			1	2	
106	c2415106	BSD	QC331983	111421	Filtra	25-MAR-2006 01:12	1.0	1.0			1	2	
107	c2415107	CCV				25-MAR-2006 01:18	1.0	1.0			1	12 2	
109	c2415109	CCB				25-MAR-2006 01:29	1.0	1.0			1	2	
110	c2415110	MSS	185408-002	111421	Filtra	25-MAR-2006 01:34	1.0	1.0	4		1	2	4:NA=113600
111	c2415111	SER	QC331986	111421	Filtra	25-MAR-2006 01:40	5.0	1.0			1	2	1:NA=22340.0
112	c2415112	MS	QC331984	111421	Filtra	25-MAR-2006 01:45	1.0	1.0			1	2	4:NA=119300
113	c2415113	MSD	QC331985	111421	Filtra	25-MAR-2006 01:51	1.0	1.0			1	2	4:NA=119300
114	c2415114	PDS	QC331987	111421	Filtra	25-MAR-2006 01:56	1.0	1.0			1	13 2	4:NA=116900

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Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: Meiwu Date: 3/28/6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
115	c2415115	MSS	185408-002	111421	Filtra	25-MAR-2006 02:02	20.0	1.0			1	2	
116	c2415116	SER	QC331986	111421	Filtra	25-MAR-2006 02:07	100.0	1.0			1	2	
117	c2415117	MS	QC331984	111421	Filtra	25-MAR-2006 02:13	20.0	1.0		1	1	2	
118	c2415118	MSD	QC331985	111421	Filtra	25-MAR-2006 02:19	20.0	1.0		1	1	2	
119	c2415119	PDS	QC331987	111421	Filtra	25-MAR-2006 02:24	20.0	1.0		3	1	13 2	
121	c2415121	CCV				25-MAR-2006 02:35	1.0	1.0			1	12 2	
123	c2415123	CCB				25-MAR-2006 02:46	1.0	1.0			1	2	
124	c2415124	SAMPLE	185408-001	111421	Filtra	25-MAR-2006 02:52	1.0	1.0	4		1	2	4:NA=84720.0
125	c2415125	SAMPLE	185408-003	111421	Filtra	25-MAR-2006 02:57	1.0	1.0	4		1	2	4:NA=86130.0
126	c2415126	SAMPLE	185408-004	111421	Filtra	25-MAR-2006 03:03	1.0	1.0	5		1	2	5:CA=57740.0
127	c2415127	SAMPLE	185408-005	111421	Filtra	25-MAR-2006 03:08	1.0	1.0	5		1	2	5:CA=64560.0
128	c2415128	SAMPLE	185408-001	111421	Filtra	25-MAR-2006 03:14	20.0	1.0			1	2	
129	c2415129	SAMPLE	185408-003	111421	Filtra	25-MAR-2006 03:19	20.0	1.0			1	2	
130	c2415130	SAMPLE	185408-004	111421	Filtra	25-MAR-2006 03:25	20.0	1.0			1	2	
131	c2415131	SAMPLE	185408-005	111421	Filtra	25-MAR-2006 03:30	20.0	1.0			1	2	
133	c2415133	CCV				25-MAR-2006 03:42	1.0	1.0			1	12 2	
135	c2415135	CCB				25-MAR-2006 03:53	1.0	1.0			1	2	
136	c2415136	TUN				25-MAR-2006 03:59	1.0	1.0				1	
137	c2415137	ICSA				25-MAR-2006 04:05	1.0	1.0			1	10 2	7:CA=290700
138	c2415138	ICSAB				25-MAR-2006 04:10	1.0	1.0			1	11 2	10:CA=289100
140	c2415140	SAMPLE	185511-001	111388	Filtra	25-MAR-2006 04:21	1.0	1.0	3		1	2	3:NA=53820.0
141	c2415141	SAMPLE	185511-002	111388	Filtra	25-MAR-2006 04:27	1.0	1.0	3		1	2	3:NA=53130.0
142	c2415142	SAMPLE	185511-009	111388	Filtra	25-MAR-2006 04:32	1.0	1.0	2		1	2	2:NA=191500
143	c2415143	SAMPLE	185511-010	111388	Filtra	25-MAR-2006 04:38	1.0	1.0	4		1	2	4:NA=68870.0
144	c2415144	SAMPLE	185511-011	111388	Filtra	25-MAR-2006 04:43	1.0	1.0	3		1	2	3:MG=40470.0
145	c2415145	SAMPLE	185511-012	111388	Filtra	25-MAR-2006 04:49	1.0	1.0			1	2	
146	c2415146	SAMPLE	185511-013	111388	Filtra	25-MAR-2006 04:55	1.0	1.0			1	2	
148	c2415148	CCV				25-MAR-2006 05:06	1.0	1.0			1	12 2	
150	c2415150	CCB				25-MAR-2006 05:17	1.0	1.0			1	2	
151	c2415151	SAMPLE	185511-001	111388	Filtra	25-MAR-2006 05:22	20.0	1.0	1		1	2	
152	c2415152	SAMPLE	185511-002	111388	Filtra	25-MAR-2006 05:28	20.0	1.0	1		1	2	

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Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [signature] Date: 3/25/6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
153	c2415153	SAMPLE	185511-009	111388	Filtra	25-MAR-2006 05:34	20.0	1.0	1		1	2	
154	c2415154	SAMPLE	185511-010	111388	Filtra	25-MAR-2006 05:39	20.0	1.0	1		1	2	
155	c2415155	SAMPLE	185511-011	111388	Filtra	25-MAR-2006 05:45	20.0	1.0	1		1	2	
156	c2415156	SAMPLE	185511-012	111388	Filtra	25-MAR-2006 05:50	20.0	1.0	1		1	2	
157	c2415157	SAMPLE	185511-013	111388	Filtra	25-MAR-2006 05:56	20.0	1.0	1		1	2	
159	c2415159	CCV				25-MAR-2006 06:07	1.0	1.0	1		1	12 2	
161	c2415161	CCB				25-MAR-2006 06:18	1.0	1.0			1	2	
162	c2415162	ICSA				25-MAR-2006 06:24	1.0	1.0			1	10 2	7:CA=301200
163	c2415163	ICSAB				25-MAR-2006 06:29	1.0	1.0			1	11 2	10:CA=300000
165	c2415165	SAMPLE	185586-001	111436	Filtra	25-MAR-2006 06:40	1.0	1.0	5		1	2	4:CA=167100
166	c2415166	SAMPLE	185586-002	111436	Filtra	25-MAR-2006 06:46	1.0	1.0	5		1	2	4:CA=124300
167	c2415167	SAMPLE	185586-003	111436	Filtra	25-MAR-2006 06:51	1.0	1.0	5		1	2	4:CA=124000
168	c2415168	SAMPLE	185586-018	111436	Filtra	25-MAR-2006 06:57	1.0	1.0	4		1	2	3:NA=93550.0
169	c2415169	SAMPLE	185586-019	111436	Filtra	25-MAR-2006 07:02	1.0	1.0	6		1	2	5:NA=56300.0
170	c2415170	SAMPLE	185586-020	111436	Filtra	25-MAR-2006 07:08	1.0	1.0	6		1	2	5:NA=137100
171	c2415171	SAMPLE	185586-021	111436	Filtra	25-MAR-2006 07:13	1.0	1.0	5		1	2	4:CA=526100
172	c2415172	SAMPLE	185586-022	111436	Filtra	25-MAR-2006 07:19	1.0	1.0	4		1	2	3:NA=51830.0
174	c2415174	CCV				25-MAR-2006 07:30	1.0	1.0			1	12 2	
176	c2415176	CCB				25-MAR-2006 07:41	1.0	1.0			1	2	
177	c2415177	SAMPLE	185586-023	111436	Filtra	25-MAR-2006 07:47	1.0	1.0	3		1	2	
178	c2415178	SAMPLE	185586-024	111436	Filtra	25-MAR-2006 07:52	1.0	1.0	4		1	2	3:MG=54800.0
179	c2415179	SAMPLE	185586-025	111436	Filtra	25-MAR-2006 07:58	1.0	1.0	3		1	2	2:MG=45530.0
180	c2415180	SAMPLE	185586-026	111436	Filtra	25-MAR-2006 08:03	1.0	1.0	4		1	2	3:NA=53600.0
181	c2415181	SAMPLE	185586-001	111436	Filtra	25-MAR-2006 08:09	20.0	1.0	3		1	2	
182	c2415182	SAMPLE	185586-002	111436	Filtra	25-MAR-2006 08:14	20.0	1.0	3		1	2	
183	c2415183	SAMPLE	185586-003	111436	Filtra	25-MAR-2006 08:20	20.0	1.0	3		1	2	
184	c2415184	SAMPLE	185586-018	111436	Filtra	25-MAR-2006 08:26	20.0	1.0	3		1	2	
185	c2415185	CCV				25-MAR-2006 08:33	1.0	1.0	3		1	12 2	
187	c2415187	CCB				25-MAR-2006 08:44	1.0	1.0			1	2	
188	c2415188	ICSA				25-MAR-2006 08:49	1.0	1.0			1	10 2	7:CA=299100
189	c2415189	ICSAB				25-MAR-2006 08:55	1.0	1.0			1	11 2	8:CA=288700

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [illegible] Date: 3/25/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56121987001
Units : ug/L

Date : 25-MAR-2006 17:19
X Axis : R

Reviewer: ---
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	c2517004	56121987004	CS1	25-MAR-2006 17:25	S2889
L2	c2517005	56121987005	CS2	25-MAR-2006 17:30	S2890
L3	c2517006	56121987006	CS3	25-MAR-2006 17:36	S2891
L4	c2517007	56121987007	CS4	25-MAR-2006 17:41	S2892
L5	c2517008	56121987008	CS5	25-MAR-2006 17:47	S2886
L6	c2517009	56121987009	CS6	25-MAR-2006 17:52	S2887

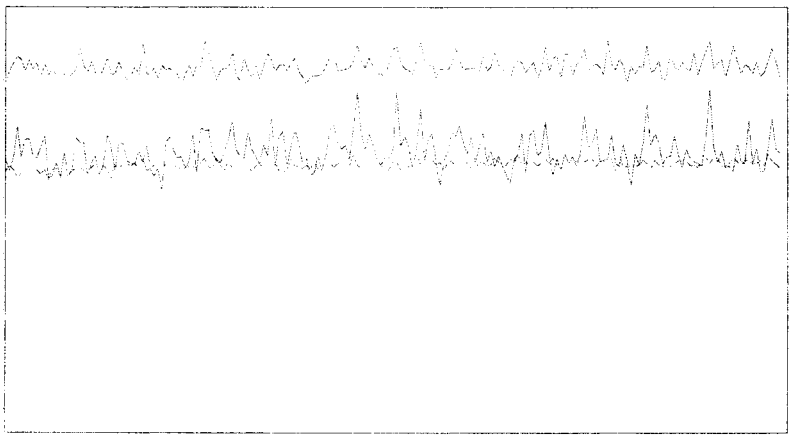
Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		3.8865	2.2755	0.8329	0.5892	0.6257	BLNK	-2.5547	1.64155		1.6420	0.999	0.995	
Antimony	0.3111	0.2133	0.1597	0.1458	0.1200	0.1280	BLNK	-0.3477	7.92772		0.1796	0.999	0.995	
Arsenic		0.3796	0.3716	0.3019	0.2691	0.2905	BLNK	-0.1052	3.49583		0.3225	0.999	0.995	
Barium	0.0722	0.0741	0.0666	0.0634	0.0564	0.0625	BLNK	-0.0454	16.3101		0.0659	0.998	0.995	
Beryllium	0.1193	0.1317	0.1183	0.1219	0.1088	0.1089	BLNK	-0.0045	9.18386		0.1182	1.000	0.995	
Cadmium	0.5799	0.4497	0.3247	0.2983	0.2486	0.2603	BLNK	-0.2588	3.88162		0.3603	0.999	0.995	
Calcium		0.0154	0.0141	0.0129	0.0117	0.0121	BLNK	-12.179	83.1722		0.0133	1.000	0.995	
Chromium		4.2655	3.0491	1.9910	1.6448	1.7620	BLNK	-0.7036	0.57752		2.5425	0.999	0.995	538
Cobalt	2.4705	2.5058	2.2921	2.3558	2.0523	2.2700	BLNK	-0.0146	0.44913		2.3244	0.998	0.995	
Copper		0.7464	0.6667	0.6338	0.5520	0.5929	BLNK	-0.0263	1.71032		0.6383	0.999	0.995	
Iron		0.0734	0.0620	0.0537	0.0482	0.0516	BLNK	-19.277	19.6651		0.0578	0.999	0.995	
Lead	0.7838	0.7299	0.7070	0.7232	0.6896	0.7232	BLNK	-0.0238	1.39586		0.7261	0.999	0.995	
Magnesium		0.0782	0.0772	0.0836	0.0665	0.0711	BLNK	-0.5698	14.2428		0.0753	0.999	0.995	
Manganese	3.0605	2.8158	2.5579	2.4827	2.1607	2.3733	BLNK	-0.0612	0.42914		2.5751	0.998	0.995	
Molybdenum		0.5824	0.5732	0.5592	0.4945	0.5451	BLNK	-0.0288	1.86942		0.5509	0.998	0.995	
Nickel	0.5807	0.5646	0.5137	0.5185	0.4589	0.4851	BLNK	-0.0165	2.08384		0.5202	0.999	0.995	
Potassium		0.9946	0.7661	0.5358	0.4274	0.4628	BLNK	-44.643	2.19945		0.6373	0.998	0.995	
Selenium		0.0518	0.0464	0.0326	0.0267	0.0284	BLNK	-0.5200	35.7819		0.0372	0.999	0.995	
Silver	2.5306	1.9677	1.6335	1.4759	1.2480	1.3270	BLNK	-0.2245	0.76353		1.6971	0.999	0.995	
Sodium		0.7945	0.8185	0.7730	0.6431	0.6809	BLNK	-4.4942	1.48507		0.7420	0.999	0.995	
Thallium		0.5553	0.5036	0.5121	0.4682	0.5401	BLNK	-0.0413	1.90278		0.5159	0.995	0.995	
Vanadium		2.9471	2.5681	2.1851	1.9336	2.1341	BLNK	-0.2789	0.47833		2.3536	0.998	0.995	
Zinc		0.6271	0.4579	0.3789	0.3051	0.3166	BLNK	-0.2892	3.18628		0.4171	1.000	0.995	

BLNK=Y=aX+[blank]

Instrument amount = a0 + response * a1 + response^2 * a2

Tune Report

Tune File : ATUNE.U



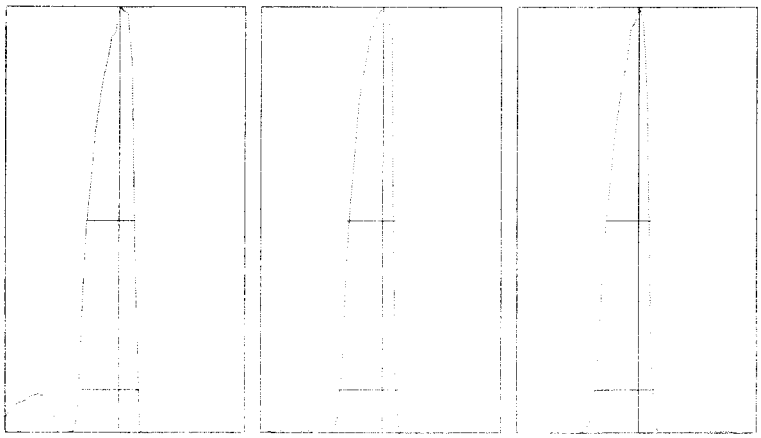
m/z:	7	89	205
Range:	20,000	20,000	20,000
Count:	13,182	16,724	12,462
Mean:	13236.3	17241.4	12604.8
RSD%:	6.19	2.56	1.80
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.46%
Doubly Charged:	70/140	0.97%

Background:

m/z:	7	89	205
Cps:	2.0	1.7	2.0



m/z:	7	89	205
Height:	13,341	17,359	13,199
Axis:	6.95	89.05	205.05
W-50%:	0.60	0.60	0.55
W-10%:	0.7500	0.7500	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===			===Ion Lenses===			===Q-Pole Parameters===		
RF Power:	1210	W	Extract 1:	-156.2	V	AMU Gain:	129	
RF Matching:	1.62	V	Extract 2:	-96	V	AMU Offset:	127	
Smpl Depth:	7	mm	Einzel 1,3:	-66	V	Axis Gain:	0.9998	
Torch-H:	0	mm	Einzel 2:	16	V	Axis Offset:	-0.07	
Torch-V:	0.4	mm	Omega Bias:	-33	V	QP Bias:	1.5	V
Carrier Gas:	1.14	L/min	Omega (+):	1	V			
Makeup Gas:	0	L/min	Omega (-):	-6.7	V	===Detector Parameters===		
Optional Gas:	---	%	QP Focus:	7.1	V	Discriminator:	8.7	mV
PeriPump1:	0.1	rps	Plate Bias:	-12.5	V	Analog HV:	1760	V
PeriPump2:	---	rps				Pulse HV:	1200	V
S/C Temp:	2	degC						

Generated : Mar 25, 2006 09:11:17
Printed : Mar 25, 2006 09:11:23

P/A Factor Tuning Report

Acquired:Mar 25 2006 09:32 am

Mass[amu]	Element	P/A Factor
6	Li	0.068303
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.090756
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.095697
45	Sc	Sensitivity too low
51	V	0.094817
52	Cr	0.096140
53	Cr	Sensitivity too low
54	Fe	0.102546
55	Mn	0.098579
57	Fe	0.101471
59	Co	0.101468
60	Ni	Sensitivity too low
63	Cu	Sensitivity too low
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.101158
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.106210
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	0.107844
118	(In)	0.110861
121	Sb	Sensitivity too low
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.111186
166	Er	Sensitivity too low

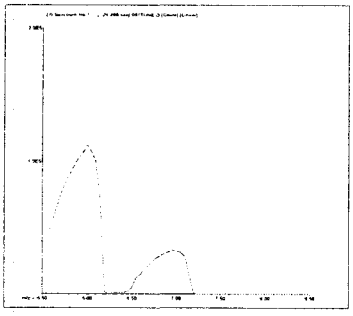
```
205        Tl    0.115486
206      (Pb)  Sensitivity too low
207      (Pb)  Sensitivity too low
208        Pb    0.114518
209        Bi    0.114511

===Detector Parameters===
  Discriminator: 8.7 mV
      Analog HV: 1760 V
       Pulse HV: 1200 V
```

6020 QC Tune Report

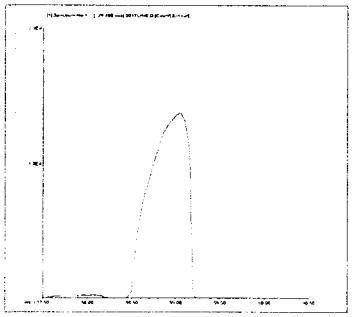
Data File: C:\ICPCHEM\1\DATA\06C2517a.B\001TUNE.D
Date Acquired: Mar 25 2006 05:07 pm
Acq. Method: TN6020.M
Operator:
Sample Name: TUN,S2898
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

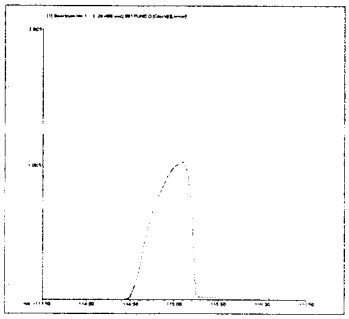
Element	Actual	Required	Flag
7 Li	0.85	5.00	
59 Co	1.27	5.00	
115 In	1.17	5.00	
205 Tl	0.71	5.00	



7 Li
Mass Calib.
Actual: 6.95
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



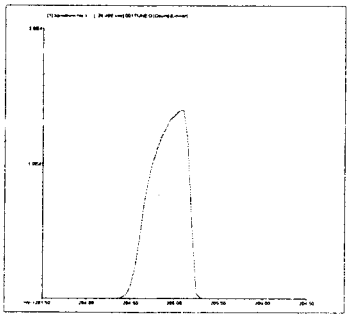
115 In

Mass Calib.

Actual: 115.10
Required: 114.90 - 115.10
Flag:

Peak Width

Actual: 0.60
Required: 0.90
Flag:



205 Tl

Mass Calib.

Actual: 205.10
Required: 204.90 - 205.10
Flag:

Peak Width

Actual: 0.60
Required: 0.90
Flag:

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06C2517a.B\002BLNK.D\002BLNK.D#
Date Acquired: Mar 25 2006 05:13 pm
Acq. Method: 60200111.M
Operator:
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update: Mar 25 2006 04:49 pm
Sample Type: 6-Blank
Dilution Factor: 1.00

QC Elements

Element	Corr. Conc.		RSD(%)	Raw Conc.	High Limit	Flag
9 Be	-0.008454	ppb	36.78	-0.008454	1.00	
23 Na	-0.797	ppb	59.91	-0.797	1.00	
26 Mg	-0.3247	ppb	78.50	-0.3247	1.00	
27 Al	-1.315	ppb	4.83	-1.315	1.00	
39 K	0.7718	ppb	756.15	0.7718	1.00	
44 Ca	-0.3111	ppb	175.83	-0.3111	1.00	
51 V	-0.03952	ppb	371.46	-0.03952	1.00	
52 Cr	-0.06869	ppb	43.06	-0.06869	1.00	
55 Mn	-0.0154	ppb	49.05	-0.0154	1.00	
57 Fe	-2.061	ppb	86.95	-2.061	1.00	
59 Co	0.005511	ppb	120.87	0.005511	1.00	
60 Ni	-0.008204	ppb	101.06	-0.008204	1.00	
65 Cu	0.004633	ppb	338.23	0.004633	1.00	
66 Zn	0.07853	ppb	89.39	0.07853	1.00	
75 As	0.2477	ppb	57.17	0.2477	1.00	
82 Se	0.5152	ppb	11.79	0.5152	1.00	
95 Mo	0.003936	ppb	271.09	0.003936	1.00	
109 Ag	0.4199	ppb	3.52	0.4199	1.00	
111 Cd	-0.02732	ppb	256.52	-0.02732	1.00	
121 Sb	0.2282	ppb	2.66	0.2282	1.00	
137 Ba	-0.01357	ppb	161.83	-0.01357	1.00	
205 Tl	0.1591	ppb	20.46	0.1591	1.00	
208 Pb	0.001769	ppb	184.57	0.001769	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1075951.00	1.80	---	#VALUE!	80 - 120	
45 Sc	597797.44	1.45	---	#VALUE!	80 - 120	
72 Ge	131139.78	0.91	---	#VALUE!	80 - 120	
115 In	781566.19	2.93	---	#VALUE!	80 - 120	
209 Bi	614094.38	0.45	---	#VALUE!	80 - 120	

ISTD Ref File : ---

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Pass
ISTD: Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06C2517a.B\003CAL
Date Acquired: Mar 25 2006 05:19 pm
Operator:
Sample Name: std-blk
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 25 2006 04:49 pm
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	1139817.00	A	31180.00	2.74
9	Be	11.11	P	1.93	17.33
23	Na	38380.00	P	339.80	0.89
26	Mg	506.67	P	57.83	11.41
27	Al	19736.67	P	241.80	1.23
39	K	257405.50	P	1989.00	0.77
44	Ca	1856.11	P	105.70	5.69
45	Sc	634190.31	A	11000.00	1.73
51	V	1553.97	P	261.60	16.83
52	Cr	3250.00	P	28.87	0.89
55	Mn	380.00	P	38.44	10.12
57	Fe	2615.56	P	113.50	4.34
59	Co	86.67	P	8.82	10.18
60	Ni	21.11	P	3.85	18.23
65	Cu	41.11	P	8.39	20.41
66	Zn	242.22	P	38.63	15.95
72	Ge	133388.70	P	1331.00	1.00
75	As	80.74	P	98.00	121.37
82	Se	38.89	P	22.32	57.39
95	Mo	41.11	P	5.09	12.39
109	Ag	784.44	P	22.69	2.89
111	Cd	178.02	P	22.38	12.57
115	In	777896.88	P	8143.00	1.05
121	Sb	682.22	P	28.74	4.21
137	Ba	43.33	P	3.33	7.69
205	Tl	278.89	P	13.47	4.83
208	Pb	218.89	P	41.41	18.92
209	Bi	641813.31	P	2797.00	0.44

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2517a.B\004CALI.D\004CALI.D#
Date Acquired: Mar 25 2006 05:25 pm
Operator:
Sample Name: CS1,S2889
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 25 2006 05:21 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	1099508.00	A	30380.00	2.76
9	Be	655.56	P	80.02	12.21
23	Na	251408.91	P	4948.00	1.97
26	Mg	23628.89	P	415.90	1.76
27	Al	21293.33	P	380.00	1.78
39	K	400821.09	P	3438.00	0.86
44	Ca	5553.38	P	117.30	2.11
45	Sc	602823.63	A	5549.00	0.92
51	V	2445.76	P	345.00	14.11
52	Cr	4493.33	P	40.00	0.89
55	Mn	2008.89	P	67.36	3.35
57	Fe	6175.56	P	279.70	4.53
59	Co	1622.22	P	103.00	6.35
60	Ni	381.11	P	26.94	7.07
65	Cu	509.90	P	40.41	7.93
66	Zn	526.55	P	26.03	4.94
72	Ge	131303.59	P	973.30	0.74
75	As	279.14	P	93.98	33.67
82	Se	50.67	P	8.08	15.95
95	Mo	365.56	P	48.57	13.29
109	Ag	1661.11	P	67.52	4.06
111	Cd	380.62	P	18.69	4.91
115	In	760712.38	P	9593.00	1.26
121	Sb	1183.33	P	20.28	1.71
137	Ba	274.44	P	43.50	15.85
205	Tl	1855.56	P	45.01	2.43
208	Pb	2436.67	P	68.88	2.83
209	Bi	621853.31	P	3542.00	0.57

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1099507.50	2.76	1139817.40	96.5	80 - 120	

45	Sc	602823.63	0.92	634190.31	95.1	80 - 120
72	Ge	131303.55	0.74	133388.67	98.4	80 - 120
115	In	760712.38	1.26	777896.94	97.8	80 - 120
209	Bi	621853.31	0.57	641813.31	96.9	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2517a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2517a.B\005CALI.D\005CALI.D#
Date Acquired:	Mar 25 2006 05:30 pm
Operator:	
Sample Name:	CS2,S2890
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 25 2006 05:26 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	1064395.00	A	8797.00	0.83
9	Be	1402.22	P	70.26	5.01
23	Na	474683.31	P	9577.00	2.02
26	Mg	46724.44	P	318.70	0.68
27	Al	23218.89	P	410.80	1.77
39	K	594147.13	A	13050.00	2.20
44	Ca	9220.93	P	280.40	3.04
45	Sc	597475.31	A	13750.00	2.30
51	V	3811.36	P	209.40	5.49
52	Cr	5515.56	P	186.50	3.38
55	Mn	3641.11	P	69.39	1.91
57	Fe	9497.78	P	337.80	3.56
59	Co	3241.11	P	306.70	9.46
60	Ni	730.00	P	5.77	0.79
65	Cu	965.36	P	68.50	7.10
66	Zn	810.88	P	19.53	2.41
72	Ge	129310.40	P	603.00	0.47
75	As	490.41	P	246.90	50.35
82	Se	66.89	P	24.31	36.34
95	Mo	753.33	P	58.59	7.78
109	Ag	2544.44	P	50.15	1.97
111	Cd	581.58	P	17.06	2.93
115	In	745057.00	P	4798.00	0.64
121	Sb	1588.89	P	10.72	0.67
137	Ba	552.22	P	18.36	3.32
205	Tl	3380.00	P	117.00	3.46
208	Pb	4442.22	P	6.94	0.16
209	Bi	608651.13	P	6382.00	1.05

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1064395.10	0.83	1139817.40	93.4	80 - 120	

45	Sc	597475.31	2.30	634190.31	94.2	80 - 120
72	Ge	129310.45	0.47	133388.67	96.9	80 - 120
115	In	745057.00	0.64	777896.94	95.8	80 - 120
209	Bi	608651.06	1.05	641813.31	94.8	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2517a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2517a.B\006CALI.D\006CALI.D#
Date Acquired: Mar 25 2006 05:36 pm
Operator:
Sample Name: CS3,S2891
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 25 2006 05:32 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	1124950.00	A	25820.00	2.30
9	Be	2661.11	P	32.03	1.20
23	Na	978242.38	A	12700.00	1.30
26	Mg	92360.00	P	2222.00	2.41
27	Al	27183.33	P	611.70	2.25
39	K	915507.38	A	7826.00	0.85
44	Ca	16901.34	P	253.40	1.50
45	Sc	598528.69	M	30780.00	5.14
51	V	6844.10	P	520.80	7.61
52	Cr	8131.11	P	186.10	2.29
55	Mn	6821.11	P	173.30	2.54
57	Fe	16544.44	P	147.30	0.89
59	Co	6112.22	P	192.90	3.16
60	Ni	1370.00	P	71.72	5.24
65	Cu	1777.38	P	50.59	2.85
66	Zn	1220.65	P	70.25	5.76
72	Ge	133324.20	P	1289.00	0.97
75	As	990.11	P	99.73	10.07
82	Se	123.56	P	12.48	10.10
95	Mo	1527.78	P	83.42	5.46
109	Ag	4354.44	P	185.50	4.26
111	Cd	865.79	P	6.70	0.77
115	In	797669.69	M	23000.00	2.88
121	Sb	2546.67	P	68.07	2.67
137	Ba	1061.11	P	27.76	2.62
205	Tl	6396.67	P	58.59	0.92
208	Pb	8982.22	P	249.50	2.78
209	Bi	635207.69	P	7627.00	1.20

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1124949.60	2.30	1139817.40	98.7	80 - 120	

45	Sc	598528.69	5.14	634190.31	94.4	80 - 120
72	Ge	133324.22	0.97	133388.67	100.0	80 - 120
115	In	797669.63	2.88	777896.94	102.5	80 - 120
209	Bi	635207.75	1.20	641813.31	99.0	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2517a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2517a.B\007CALI.D\007CALI.D#
Date Acquired: Mar 25 2006 05:41 pm
Operator:
Sample Name: CS4,S2892
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 25 2006 05:37 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	1091618.00	A	21070.00	1.93
9	Be	26608.89	P	602.90	2.27
23	Na	9201740.00	A	261000.00	2.84
26	Mg	994511.81	A	17490.00	1.76
27	Al	99187.78	P	1206.00	1.22
39	K	6376032.00	A	98690.00	1.55
44	Ca	154109.80	P	2000.00	1.30
45	Sc	596088.69	M	26340.00	4.42
51	V	56995.39	P	885.00	1.55
52	Cr	51932.22	P	880.10	1.69
55	Mn	64757.78	P	763.50	1.18
57	Fe	139950.00	P	1666.00	1.19
59	Co	61448.88	P	467.50	0.76
60	Ni	13525.56	P	333.50	2.47
65	Cu	16531.34	P	151.80	0.92
66	Zn	9883.92	P	325.80	3.30
72	Ge	130416.90	P	352.50	0.27
75	As	7873.84	P	208.10	2.64
82	Se	850.89	P	44.07	5.18
95	Mo	14586.67	P	147.50	1.01
109	Ag	38495.56	P	271.30	0.70
111	Cd	7780.49	P	145.50	1.87
115	In	745649.88	P	5725.00	0.77
121	Sb	21748.89	P	113.70	0.52
137	Ba	9454.44	P	190.60	2.02
205	Tl	62686.66	P	119.30	0.19
208	Pb	88518.88	P	519.40	0.59
209	Bi	612013.31	P	3487.00	0.57

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1091618.50	1.93	1139817.40	95.8	80 - 120	

45	Sc	596088.75	4.42	634190.31	94.0	80 - 120
72	Ge	130416.88	0.27	133388.67	97.8	80 - 120
115	In	745649.94	0.77	777896.94	95.9	80 - 120
209	Bi	612013.31	0.57	641813.31	95.4	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2517a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2517a.B\008CALI.D\008CALI.D#
Date Acquired: Mar 25 2006 05:47 pm
Operator:
Sample Name: CS5,S2886
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 25 2006 05:43 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	1094026.00	A	22650.00	2.07
9	Be	238072.20	P	4871.00	2.05
23	Na	80284400.00	A	760800.00	0.95
26	Mg	8301087.00	A	31090.00	0.37
27	Al	735633.13	A	19110.00	2.60
39	K	53363280.00	A	1401000.00	2.63
44	Ca	1461622.00	A	28710.00	1.96
45	Sc	624198.00	A	5580.00	0.89
51	V	508151.19	P	11540.00	2.27
52	Cr	432270.00	P	14560.00	3.37
55	Mn	567762.19	P	11550.00	2.03
57	Fe	1266612.00	A	8146.00	0.64
59	Co	539214.38	P	4200.00	0.78
60	Ni	120586.70	P	2078.00	1.72
65	Cu	145052.20	P	3512.00	2.42
66	Zn	80171.82	P	1222.00	1.52
72	Ge	131387.59	P	1918.00	1.46
75	As	70707.96	P	762.70	1.08
82	Se	7010.67	P	65.55	0.94
95	Mo	129923.30	P	840.40	0.65
109	Ag	327915.50	P	2524.00	0.77
111	Cd	65314.66	P	457.30	0.70
115	In	739931.81	M	14800.00	2.00
121	Sb	177536.70	P	1757.00	0.99
137	Ba	83505.55	P	1025.00	1.23
205	Tl	546468.88	P	3176.00	0.58
208	Pb	804894.38	P	11850.00	1.47
209	Bi	583597.69	P	5004.00	0.86

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1094026.30	2.07	1139817.40	96.0	80 - 120	

45	Sc	624198.06	0.89	634190.31	98.4	80 - 120
72	Ge	131387.55	1.46	133388.67	98.5	80 - 120
115	In	739931.88	2.00	777896.94	95.1	80 - 120
209	Bi	583597.75	0.86	641813.31	90.9	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2517a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2517a.B\009CALI.D\009CALI.D#
Date Acquired: Mar 25 2006 05:52 pm
Operator:
Sample Name: CS6,S2887
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 25 2006 05:48 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	1111770.00	A	30310.00	2.73
9	Be	484173.81	A	13430.00	2.77
23	Na	178841600.00	A	898200.00	0.50
26	Mg	18677200.00	A	78020.00	0.42
27	Al	1643430.00	A	22550.00	1.37
39	K	121581600.00	A	2930000.00	2.41
44	Ca	3181111.00	A	18110.00	0.57
45	Sc	656669.63	A	5569.00	0.85
51	V	1159894.00	A	17720.00	1.53
52	Cr	957627.81	A	10020.00	1.05
55	Mn	1289983.00	A	16770.00	1.30
57	Fe	2803564.00	A	43380.00	1.55
59	Co	1233926.00	A	30660.00	2.48
60	Ni	263676.69	P	5233.00	1.98
65	Cu	322235.19	P	3665.00	1.14
66	Zn	172067.70	P	2271.00	1.32
72	Ge	135881.30	P	1123.00	0.83
75	As	157882.20	P	1372.00	0.87
82	Se	15416.00	P	128.70	0.83
95	Mo	296250.00	P	1416.00	0.48
109	Ag	721276.63	P	9896.00	1.37
111	Cd	141477.80	P	1178.00	0.83
115	In	752624.38	M	12350.00	1.64
121	Sb	385201.09	P	2676.00	0.69
137	Ba	188264.41	P	201.00	0.11
205	Tl	1259054.00	A	16310.00	1.30
208	Pb	1685944.00	P	1982.00	0.12
209	Bi	582791.13	P	2048.00	0.35

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1111769.80	2.73	1139817.40	97.5	80 - 120	

45	Sc	656669.56	0.85	634190.31	103.5	80 - 120
72	Ge	135881.33	0.83	133388.67	101.9	80 - 120
115	In	752624.38	1.64	777896.94	96.8	80 - 120
209	Bi	582791.06	0.35	641813.31	90.8	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2517a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987013 File : c2517013 Time : 25-MAR-2006 18:18
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2895, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	1.6420	0.6383	100.0	102.2	ug/L	2	10	
Antimony	0.1796	0.1248	100.0	98.62	ug/L	-1	10	
Arsenic	0.3225	0.2777	100.0	96.99	ug/L	-3	10	
Barium	0.0659	0.0588	100.0	95.87	ug/L	-4	10	
Beryllium	0.1182	0.1114	100.0	102.3	ug/L	2	10	
Cadmium	0.3603	0.2572	100.0	99.57	ug/L	0	10	
Calcium	0.0133	0.0121	10000	10050	ug/L	1	10	
Chromium	2.5425	1.7027	100.0	97.63	ug/L	-2	10	
Cobalt	2.3244	2.1303	100.0	95.66	ug/L	-4	10	
Copper	0.6383	0.5746	100.0	98.24	ug/L	-2	10	
Iron	0.0578	0.0503	10000	9881	ug/L	-1	10	
Lead	0.7261	0.6946	100.0	96.93	ug/L	-3	10	
Magnesium	0.0753	0.0710	10000	10110	ug/L	1	10	
Manganese	2.5751	2.2485	100.0	96.43	ug/L	-4	10	
Molybdenum	0.5509	0.5125	100.0	95.77	ug/L	-4	10	
Nickel	0.5202	0.4697	100.0	97.85	ug/L	-2	10	
Potassium	0.6373	0.4570	10000	10010	ug/L	0	10	
Selenium	0.0372	0.0282	100.0	100.2	ug/L	0	10	
Silver	1.6971	1.2974	100.0	98.84	ug/L	-1	10	
Sodium	0.7420	0.6833	10000	10140	ug/L	1	10	
Thallium	0.5159	0.4822	100.0	91.70	ug/L	-8	10	
Vanadium	2.3536	2.0275	100.0	96.70	ug/L	-3	10	
Zinc	0.4171	0.3172	100.0	100.8	ug/L	1	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1123841	-1.40
Scandium	634190	634586	0.06
Germanium	133389	136011	1.97
Indium	777897	767915	-1.28
Bismuth	641813	607116	-5.41

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987026 File : c2517026 Time : 25-MAR-2006 19:29
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2896, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.6671	100.0	107.0	ug/L	7	10	
Antimony	0.1796	0.1284	100.0	101.5	ug/L	2	10	
Arsenic	0.3225	0.2817	100.0	98.36	ug/L	-2	10	
Barium	0.0659	0.0620	100.0	101.0	ug/L	1	10	
Beryllium	0.1182	0.1116	100.0	102.4	ug/L	2	10	
Cadmium	0.3603	0.2679	100.0	103.7	ug/L	4	10	
Calcium	0.0133	0.0124	10000	10290	ug/L	3	10	
Chromium	2.5425	1.7611	100.0	101.0	ug/L	1	10	
Cobalt	2.3244	2.2555	100.0	101.3	ug/L	1	10	
Copper	0.6383	0.5965	100.0	102.0	ug/L	2	10	
Iron	0.0578	0.0540	10000	10610	ug/L	6	10	
Lead	0.7261	0.7082	100.0	98.83	ug/L	-1	10	
Magnesium	0.0753	0.0739	10000	10530	ug/L	5	10	
Manganese	2.5751	2.4006	100.0	103.0	ug/L	3	10	
Molybdenum	0.5509	0.5257	100.0	98.24	ug/L	-2	10	
Nickel	0.5202	0.4929	100.0	102.7	ug/L	3	10	
Potassium	0.6373	0.4523	10000	9903	ug/L	-1	10	
Selenium	0.0372	0.0283	100.0	100.6	ug/L	1	10	
Silver	1.6971	1.3538	100.0	103.1	ug/L	3	10	
Sodium	0.7420	0.7380	10000	10960	ug/L	10	10	
Thallium	0.5159	0.4956	100.0	94.26	ug/L	-6	10	
Vanadium	2.3536	2.0640	100.0	98.45	ug/L	-2	10	
Zinc	0.4171	0.3308	100.0	105.1	ug/L	5	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1061300	-6.89
Scandium	634190	550830	-13.14
Germanium	133389	129717	-2.75
Indium	777897	771565	-0.81
Bismuth	641813	621164	-3.22

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987040 File : c2517040 Time : 25-MAR-2006 20:47
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2896, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.6684	100.0	107.2	ug/L	7	10	
Antimony	0.1796	0.1280	100.0	101.1	ug/L	1	10	
Arsenic	0.3225	0.2797	100.0	97.68	ug/L	-2	10	
Barium	0.0659	0.0618	100.0	100.7	ug/L	1	10	
Beryllium	0.1182	0.1072	100.0	98.42	ug/L	-2	10	
Cadmium	0.3603	0.2664	100.0	103.1	ug/L	3	10	
Calcium	0.0133	0.0123	10000	10220	ug/L	2	10	
Chromium	2.5425	1.7749	100.0	101.8	ug/L	2	10	
Cobalt	2.3244	2.2544	100.0	101.2	ug/L	1	10	
Copper	0.6383	0.5970	100.0	102.1	ug/L	2	10	
Iron	0.0578	0.0534	10000	10490	ug/L	5	10	
Lead	0.7261	0.7102	100.0	99.10	ug/L	-1	10	
Magnesium	0.0753	0.0745	10000	10610	ug/L	6	10	
Manganese	2.5751	2.3988	100.0	102.9	ug/L	3	10	
Molybdenum	0.5509	0.5205	100.0	97.27	ug/L	-3	10	
Nickel	0.5202	0.5029	100.0	104.8	ug/L	5	10	
Potassium	0.6373	0.4600	10000	10070	ug/L	1	10	
Selenium	0.0372	0.0276	100.0	98.15	ug/L	-2	10	
Silver	1.6971	1.3500	100.0	102.9	ug/L	3	10	
Sodium	0.7420	0.7429	10000	11030	ug/L	10	10	
Thallium	0.5159	0.4963	100.0	94.38	ug/L	-6	10	
Vanadium	2.3536	2.0145	100.0	96.08	ug/L	-4	10	
Zinc	0.4171	0.3297	100.0	104.8	ug/L	5	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1102280	-3.29
Scandium	634190	550965	-13.12
Germanium	133389	130911	-1.86
Indium	777897	781234	0.43
Bismuth	641813	625052	-2.61

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987059 File : c2517059 Time : 25-MAR-2006 22:31
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2896, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.6708	100.0	107.6	ug/L	8	10	
Antimony	0.1796	0.1297	100.0	102.5	ug/L	3	10	
Arsenic	0.3225	0.2741	100.0	95.70	ug/L	-4	10	
Barium	0.0659	0.0621	100.0	101.3	ug/L	1	10	
Beryllium	0.1182	0.1067	100.0	98.01	ug/L	-2	10	
Cadmium	0.3603	0.2731	100.0	105.7	ug/L	6	10	
Calcium	0.0133	0.0127	10000	10540	ug/L	5	10	
Chromium	2.5425	1.7468	100.0	100.2	ug/L	0	10	
Cobalt	2.3244	2.2016	100.0	98.87	ug/L	-1	10	
Copper	0.6383	0.5752	100.0	98.36	ug/L	-2	10	
Iron	0.0578	0.0528	10000	10350	ug/L	4	10	
Lead	0.7261	0.6921	100.0	96.59	ug/L	-3	10	
Magnesium	0.0753	0.0742	10000	10570	ug/L	6	10	
Manganese	2.5751	2.3459	100.0	100.6	ug/L	1	10	
Molybdenum	0.5509	0.5237	100.0	97.88	ug/L	-2	10	
Nickel	0.5202	0.4894	100.0	102.0	ug/L	2	10	
Potassium	0.6373	0.4461	10000	9767	ug/L	-2	10	
Selenium	0.0372	0.0278	100.0	98.84	ug/L	-1	10	
Silver	1.6971	1.3643	100.0	103.9	ug/L	4	10	
Sodium	0.7420	0.7494	10000	11120	ug/L	**11**	10	c+ ***
Thallium	0.5159	0.4803	100.0	91.35	ug/L	-9	10	
Vanadium	2.3536	1.9752	100.0	94.20	ug/L	-6	10	
Zinc	0.4171	0.3243	100.0	103.0	ug/L	3	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1024016	-10.16
Scandium	634190	484073	-23.67
Germanium	133389	120192	-9.89
Indium	777897	728547	-6.34
Bismuth	641813	618298	-3.66

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987073 File : c2517073 Time : 25-MAR-2006 23:49
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2896, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.6200	100.0	99.23	ug/L	-1	10	
Antimony	0.1796	0.1287	100.0	101.7	ug/L	2	10	
Arsenic	0.3225	0.2729	100.0	95.28	ug/L	-5	10	
Barium	0.0659	0.0611	100.0	99.56	ug/L	0	10	
Beryllium	0.1182	0.1065	100.0	97.78	ug/L	-2	10	
Cadmium	0.3603	0.2654	100.0	102.8	ug/L	3	10	
Calcium	0.0133	0.0120	10000	9944	ug/L	-1	10	
Chromium	2.5425	1.7148	100.0	98.33	ug/L	-2	10	
Cobalt	2.3244	2.2148	100.0	99.46	ug/L	-1	10	
Copper	0.6383	0.5724	100.0	97.88	ug/L	-2	10	
Iron	0.0578	0.0537	10000	10550	ug/L	6	10	
Lead	0.7261	0.6883	100.0	96.06	ug/L	-4	10	
Magnesium	0.0753	0.0707	10000	10070	ug/L	1	10	
Manganese	2.5751	2.3678	100.0	101.6	ug/L	2	10	
Molybdenum	0.5509	0.5137	100.0	96.01	ug/L	-4	10	
Nickel	0.5202	0.4880	100.0	101.7	ug/L	2	10	
Potassium	0.6373	0.4239	10000	9278	ug/L	-7	10	
Selenium	0.0372	0.0270	100.0	96.27	ug/L	-4	10	
Silver	1.6971	1.3459	100.0	102.5	ug/L	3	10	
Sodium	0.7420	0.7007	10000	10400	ug/L	4	10	
Thallium	0.5159	0.4791	100.0	91.11	ug/L	-9	10	
Vanadium	2.3536	1.9529	100.0	93.13	ug/L	-7	10	
Zinc	0.4171	0.3222	100.0	102.4	ug/L	2	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1034687	-9.22
Scandium	634190	540977	-14.70
Germanium	133389	124388	-6.75
Indium	777897	745305	-4.19
Bismuth	641813	617623	-3.77

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987088 File : c2517088 Time : 26-MAR-2006 01:12
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.6573	150.0	159.3	ug/L	6	10	
Antimony	0.1796	0.1391	150.0	165.0	ug/L	10	10	
Arsenic	0.3225	0.2932	150.0	153.6	ug/L	2	10	
Barium	0.0659	0.0675	150.0	165.1	ug/L	10	10	
Beryllium	0.1182	0.1117	150.0	153.9	ug/L	3	10	
Cadmium	0.3603	0.2858	150.0	166.2	ug/L	**11**	10	c+ ***
Calcium	0.0133	0.0125	15000	15600	ug/L	4	10	
Chromium	2.5425	1.9583	150.0	168.9	ug/L	**13**	10	c+ ***
Cobalt	2.3244	2.4724	150.0	166.6	ug/L	**11**	10	c+ ***
Copper	0.6383	0.6059	150.0	155.4	ug/L	4	10	
Iron	0.0578	0.0570	15000	16790	ug/L	**12**	10	c+ ***
Lead	0.7261	0.7263	150.0	152.1	ug/L	1	10	
Magnesium	0.0753	0.0747	15000	15970	ug/L	6	10	
Manganese	2.5751	2.6473	150.0	170.3	ug/L	**14**	10	c+ ***
Molybdenum	0.5509	0.5610	150.0	157.3	ug/L	5	10	
Nickel	0.5202	0.5164	150.0	161.4	ug/L	8	10	
Potassium	0.6373	0.4458	15000	14660	ug/L	-2	10	
Selenium	0.0372	0.0288	150.0	154.3	ug/L	3	10	
Silver	1.6971	1.4391	150.0	164.6	ug/L	10	10	
Sodium	0.7420	0.7538	15000	16790	ug/L	**12**	10	c+ ***
Thallium	0.5159	0.5610	150.0	160.1	ug/L	7	10	
Vanadium	2.3536	2.2804	150.0	163.3	ug/L	9	10	
Zinc	0.4171	0.3402	150.0	162.3	ug/L	8	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1065469	-6.52
Scandium	634190	535639	-15.54
Germanium	133389	123218	-7.62
Indium	777897	731747	-5.93
Bismuth	641813	604871	-5.76

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987097 File : c2517097 Time : 26-MAR-2006 02:02
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.6652	150.0	161.2	ug/L	7	10	
Antimony	0.1796	0.1388	150.0	164.8	ug/L	10	10	
Arsenic	0.3225	0.2929	150.0	153.5	ug/L	2	10	
Barium	0.0659	0.0686	150.0	167.9	ug/L	**12**	10	c+ ***
Beryllium	0.1182	0.1123	150.0	154.7	ug/L	3	10	
Cadmium	0.3603	0.2865	150.0	166.6	ug/L	**11**	10	c+ ***
Calcium	0.0133	0.0129	15000	16030	ug/L	7	10	
Chromium	2.5425	1.9357	150.0	167.0	ug/L	**11**	10	c+ ***
Cobalt	2.3244	2.5096	150.0	169.1	ug/L	**13**	10	c+ ***
Copper	0.6383	0.6034	150.0	154.8	ug/L	3	10	
Iron	0.0578	0.0581	15000	17130	ug/L	**14**	10	c+ ***
Lead	0.7261	0.7361	150.0	154.1	ug/L	3	10	
Magnesium	0.0753	0.0756	15000	16150	ug/L	8	10	
Manganese	2.5751	2.6790	150.0	172.4	ug/L	**15**	10	c+ ***
Molybdenum	0.5509	0.5633	150.0	157.9	ug/L	5	10	
Nickel	0.5202	0.5167	150.0	161.5	ug/L	8	10	
Potassium	0.6373	0.4543	15000	14940	ug/L	0	10	
Selenium	0.0372	0.0292	150.0	156.2	ug/L	4	10	
Silver	1.6971	1.4590	150.0	166.9	ug/L	**11**	10	c+ ***
Sodium	0.7420	0.7755	15000	17270	ug/L	**15**	10	c+ ***
Thallium	0.5159	0.5653	150.0	161.3	ug/L	8	10	
Vanadium	2.3536	2.2522	150.0	161.3	ug/L	8	10	
Zinc	0.4171	0.3415	150.0	162.9	ug/L	9	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1015278	-10.93
Scandium	634190	524872	-17.24
Germanium	133389	121455	-8.95
Indium	777897	730659	-6.07
Bismuth	641813	601084	-6.35

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987111 File : c2517111 Time : 26-MAR-2006 03:21
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.6954	150.0	168.7	ug/L	**12**	10	c+ ***
Antimony	0.1796	0.1382	150.0	164.0	ug/L	9	10	
Arsenic	0.3225	0.2919	150.0	153.0	ug/L	2	10	
Barium	0.0659	0.0675	150.0	165.0	ug/L	10	10	
Beryllium	0.1182	0.1125	150.0	155.0	ug/L	3	10	
Cadmium	0.3603	0.2816	150.0	163.7	ug/L	9	10	
Calcium	0.0133	0.0132	15000	16410	ug/L	9	10	
Chromium	2.5425	1.9389	150.0	167.3	ug/L	**12**	10	c+ ***
Cobalt	2.3244	2.4961	150.0	168.1	ug/L	**12**	10	c+ ***
Copper	0.6383	0.6138	150.0	157.4	ug/L	5	10	
Iron	0.0578	0.0577	15000	16990	ug/L	**13**	10	c+ ***
Lead	0.7261	0.7211	150.0	151.0	ug/L	1	10	
Magnesium	0.0753	0.0790	15000	16890	ug/L	**13**	10	c+ ***
Manganese	2.5751	2.6609	150.0	171.2	ug/L	**14**	10	c+ ***
Molybdenum	0.5509	0.5541	150.0	155.3	ug/L	4	10	
Nickel	0.5202	0.5227	150.0	163.4	ug/L	9	10	
Potassium	0.6373	0.4868	15000	16010	ug/L	7	10	
Selenium	0.0372	0.0286	150.0	153.2	ug/L	2	10	
Silver	1.6971	1.4497	150.0	165.8	ug/L	**11**	10	c+ ***
Sodium	0.7420	0.7937	15000	17680	ug/L	**18**	10	c+ ***
Thallium	0.5159	0.5565	150.0	158.8	ug/L	6	10	
Vanadium	2.3536	2.2917	150.0	164.2	ug/L	9	10	
Zinc	0.4171	0.3374	150.0	161.0	ug/L	7	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1035614	-9.14
Scandium	634190	505270	-20.33
Germanium	133389	119610	-10.33
Indium	777897	706930	-9.12
Bismuth	641813	584167	-8.98

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987124 File : c2517124 Time : 26-MAR-2006 04:33
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.6922	150.0	167.9	ug/L	**12**	10	c+ ***
Antimony	0.1796	0.1392	150.0	165.2	ug/L	10	10	
Arsenic	0.3225	0.2898	150.0	151.9	ug/L	1	10	
Barium	0.0659	0.0674	150.0	164.8	ug/L	10	10	
Beryllium	0.1182	0.1185	150.0	163.3	ug/L	9	10	
Cadmium	0.3603	0.2759	150.0	160.4	ug/L	7	10	
Calcium	0.0133	0.0129	15000	16070	ug/L	7	10	
Chromium	2.5425	1.9463	150.0	167.9	ug/L	**12**	10	c+ ***
Cobalt	2.3244	2.4731	150.0	166.6	ug/L	**11**	10	c+ ***
Copper	0.6383	0.6060	150.0	155.4	ug/L	4	10	
Iron	0.0578	0.0573	15000	16870	ug/L	**12**	10	c+ ***
Lead	0.7261	0.7237	150.0	151.5	ug/L	1	10	
Magnesium	0.0753	0.0787	15000	16800	ug/L	**12**	10	c+ ***
Manganese	2.5751	2.6406	150.0	169.9	ug/L	**13**	10	c+ ***
Molybdenum	0.5509	0.5452	150.0	152.8	ug/L	2	10	
Nickel	0.5202	0.5176	150.0	161.8	ug/L	8	10	
Potassium	0.6373	0.4684	15000	15410	ug/L	3	10	
Selenium	0.0372	0.0284	150.0	152.1	ug/L	1	10	
Silver	1.6971	1.4134	150.0	161.7	ug/L	8	10	
Sodium	0.7420	0.7823	15000	17420	ug/L	**16**	10	c+ ***
Thallium	0.5159	0.5334	150.0	152.2	ug/L	1	10	
Vanadium	2.3536	2.2845	150.0	163.6	ug/L	9	10	
Zinc	0.4171	0.3341	150.0	159.4	ug/L	6	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1047439	-8.10
Scandium	634190	534967	-15.65
Germanium	133389	123404	-7.49
Indium	777897	704117	-9.48
Bismuth	641813	572928	-10.73

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987139 File : c2517139 Time : 26-MAR-2006 05:56
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.6754	150.0	163.8	ug/L	9	10	
Antimony	0.1796	0.1285	150.0	152.5	ug/L	2	10	
Arsenic	0.3225	0.2872	150.0	150.5	ug/L	0	10	
Barium	0.0659	0.0619	150.0	151.3	ug/L	1	10	
Beryllium	0.1182	0.1176	150.0	162.0	ug/L	8	10	
Cadmium	0.3603	0.2715	150.0	157.8	ug/L	5	10	
Calcium	0.0133	0.0125	15000	15640	ug/L	4	10	
Chromium	2.5425	1.9313	150.0	166.6	ug/L	**11**	10	c+ ***
Cobalt	2.3244	2.4100	150.0	162.3	ug/L	8	10	
Copper	0.6383	0.5966	150.0	153.0	ug/L	2	10	
Iron	0.0578	0.0558	15000	16450	ug/L	10	10	
Lead	0.7261	0.7051	150.0	147.6	ug/L	-2	10	
Magnesium	0.0753	0.0744	15000	15890	ug/L	6	10	
Manganese	2.5751	2.5918	150.0	166.8	ug/L	**11**	10	c+ ***
Molybdenum	0.5509	0.5439	150.0	152.5	ug/L	2	10	
Nickel	0.5202	0.5094	150.0	159.2	ug/L	6	10	
Potassium	0.6373	0.4595	15000	15120	ug/L	1	10	
Selenium	0.0372	0.0281	150.0	150.1	ug/L	0	10	
Silver	1.6971	1.3716	150.0	156.9	ug/L	5	10	
Sodium	0.7420	0.7316	15000	16290	ug/L	9	10	
Thallium	0.5159	0.5496	150.0	156.8	ug/L	5	10	
Vanadium	2.3536	2.2926	150.0	164.2	ug/L	9	10	
Zinc	0.4171	0.3278	150.0	156.4	ug/L	4	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1128178	-1.02
Scandium	634190	586467	-7.53
Germanium	133389	127269	-4.59
Indium	777897	771339	-0.84
Bismuth	641813	587469	-8.47

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987156 File : c2517156 Time : 26-MAR-2006 07:30
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.6752	150.0	163.7	ug/L	9	10	
Antimony	0.1796	0.1378	150.0	163.5	ug/L	9	10	
Arsenic	0.3225	0.2923	150.0	153.2	ug/L	2	10	
Barium	0.0659	0.0665	150.0	162.7	ug/L	8	10	
Beryllium	0.1182	0.1192	150.0	164.2	ug/L	9	10	
Cadmium	0.3603	0.2684	150.0	156.0	ug/L	4	10	
Calcium	0.0133	0.0129	15000	16110	ug/L	7	10	
Chromium	2.5425	1.9793	150.0	170.8	ug/L	**14**	10	c+ ***
Cobalt	2.3244	2.4916	150.0	167.8	ug/L	**12**	10	c+ ***
Copper	0.6383	0.6088	150.0	156.2	ug/L	4	10	
Iron	0.0578	0.0575	15000	16950	ug/L	**13**	10	c+ ***
Lead	0.7261	0.7335	150.0	153.6	ug/L	2	10	
Magnesium	0.0753	0.0754	15000	16100	ug/L	7	10	
Manganese	2.5751	2.6573	150.0	171.0	ug/L	**14**	10	c+ ***
Molybdenum	0.5509	0.5415	150.0	151.8	ug/L	1	10	
Nickel	0.5202	0.5224	150.0	163.3	ug/L	9	10	
Potassium	0.6373	0.4713	15000	15500	ug/L	3	10	
Selenium	0.0372	0.0286	150.0	152.8	ug/L	2	10	
Silver	1.6971	1.3874	150.0	158.7	ug/L	6	10	
Sodium	0.7420	0.7481	15000	16660	ug/L	**11**	10	c+ ***
Thallium	0.5159	0.5465	150.0	155.9	ug/L	4	10	
Vanadium	2.3536	2.3349	150.0	167.3	ug/L	**12**	10	c+ ***
Zinc	0.4171	0.3345	150.0	159.6	ug/L	6	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1103389	-3.20
Scandium	634190	564782	-10.94
Germanium	133389	123746	-7.23
Indium	777897	703884	-9.51
Bismuth	641813	554114	-13.66

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987170 File : c2517170 Time : 26-MAR-2006 08:49
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.6549	150.0	158.7	ug/L	6	10	
Antimony	0.1796	0.1269	150.0	150.6	ug/L	0	10	
Arsenic	0.3225	0.2854	150.0	149.6	ug/L	0	10	
Barium	0.0659	0.0617	150.0	150.8	ug/L	1	10	
Beryllium	0.1182	0.1203	150.0	165.7	ug/L	10	10	
Cadmium	0.3603	0.2629	150.0	152.8	ug/L	2	10	
Calcium	0.0133	0.0122	15000	15150	ug/L	1	10	
Chromium	2.5425	1.9280	150.0	166.3	ug/L	**11**	10	c+ ***
Cobalt	2.3244	2.4532	150.0	165.3	ug/L	10	10	
Copper	0.6383	0.5945	150.0	152.5	ug/L	2	10	
Iron	0.0578	0.0558	15000	16430	ug/L	10	10	
Lead	0.7261	0.7103	150.0	148.7	ug/L	-1	10	
Magnesium	0.0753	0.0741	15000	15830	ug/L	6	10	
Manganese	2.5751	2.5794	150.0	166.0	ug/L	**11**	10	c+ ***
Molybdenum	0.5509	0.5270	150.0	147.8	ug/L	-1	10	
Nickel	0.5202	0.5058	150.0	158.1	ug/L	5	10	
Potassium	0.6373	0.4507	15000	14820	ug/L	-1	10	
Selenium	0.0372	0.0281	150.0	150.5	ug/L	0	10	
Silver	1.6971	1.3333	150.0	152.5	ug/L	2	10	
Sodium	0.7420	0.7201	15000	16040	ug/L	7	10	
Thallium	0.5159	0.5248	150.0	149.8	ug/L	0	10	
Vanadium	2.3536	2.2637	150.0	162.1	ug/L	8	10	
Zinc	0.4171	0.3224	150.0	153.8	ug/L	3	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1146258	0.57
Scandium	634190	627622	-1.04
Germanium	133389	131030	-1.77
Indium	777897	765545	-1.59
Bismuth	641813	578214	-9.91

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987186 File : c2517186 Time : 26-MAR-2006 10:17
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.7237	150.0	175.6	ug/L	**17**	10	c+ ***
Antimony	0.1796	0.1292	150.0	153.3	ug/L	2	10	
Arsenic	0.3225	0.2805	150.0	147.0	ug/L	-2	10	
Barium	0.0659	0.0628	150.0	153.5	ug/L	2	10	
Beryllium	0.1182	0.1171	150.0	161.3	ug/L	8	10	
Cadmium	0.3603	0.2672	150.0	155.3	ug/L	4	10	
Calcium	0.0133	0.0131	15000	16300	ug/L	9	10	
Chromium	2.5425	1.8703	150.0	161.3	ug/L	8	10	
Cobalt	2.3244	2.3428	150.0	157.8	ug/L	5	10	
Copper	0.6383	0.5862	150.0	150.4	ug/L	0	10	
Iron	0.0578	0.0545	15000	16040	ug/L	7	10	
Lead	0.7261	0.7062	150.0	147.8	ug/L	-1	10	
Magnesium	0.0753	0.0783	15000	16720	ug/L	**11**	10	c+ ***
Manganese	2.5751	2.5560	150.0	164.5	ug/L	10	10	
Molybdenum	0.5509	0.5295	150.0	148.5	ug/L	-1	10	
Nickel	0.5202	0.4899	150.0	153.1	ug/L	2	10	
Potassium	0.6373	0.4777	15000	15720	ug/L	5	10	
Selenium	0.0372	0.0279	150.0	149.1	ug/L	-1	10	
Silver	1.6971	1.3519	150.0	154.6	ug/L	3	10	
Sodium	0.7420	0.7942	15000	17690	ug/L	**18**	10	c+ ***
Thallium	0.5159	0.5203	150.0	148.5	ug/L	-1	10	
Vanadium	2.3536	2.2022	150.0	157.7	ug/L	5	10	
Zinc	0.4171	0.3256	150.0	155.3	ug/L	4	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1097983	-3.67
Scandium	634190	514757	-18.83
Germanium	133389	121934	-8.59
Indium	777897	729966	-6.16
Bismuth	641813	579541	-9.70

+=high bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987014 File : c2517014 Time : 25-MAR-2006 18:23
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	0.3810	0.2500	0.03394	ug/L	ib ***
Arsenic	[0.1983]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.01226]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.01587]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01746]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.01849]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2474]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1841]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1100289	-3.47
Scandium	634190	603776	-4.80
Germanium	133389	131176	-1.66
Indium	777897	768003	-1.27
Bismuth	641813	612511	-4.57

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987029 File : c2517029 Time : 25-MAR-2006 19:46
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1049]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.01272]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01128]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.03267]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1071784	-5.97
Scandium	634190	544066	-14.21
Germanium	133389	127891	-4.12
Indium	777897	761628	-2.09
Bismuth	641813	639000	-0.44

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987043 File : c2517043 Time : 25-MAR-2006 21:03
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.07725]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1515]	0.5000	0.09029	ug/L	!ib
Barium	[0.02682]	0.2500	0.02391	ug/L	!ib
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.07091]	0.5000	0.03860	ug/L	!ib
Cobalt	[0.01611]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01140]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.01946]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.03705]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	[0.1202]	1.000	0.09577	ug/L	!ib

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1120370	-1.71
Scandium	634190	525881	-17.08
Germanium	133389	131000	-1.79
Indium	777897	764880	-1.67
Bismuth	641813	640607	-0.19

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987062 File : c2517062 Time : 25-MAR-2006 22:48
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.07487]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1302]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.009253]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01342]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2558]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.02297]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1073848	-5.79
Scandium	634190	503446	-20.62
Germanium	133389	120349	-9.78
Indium	777897	748345	-3.80
Bismuth	641813	640870	-0.15

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987076 File : c2517076 Time : 26-MAR-2006 00:05
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1109]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.06084]	0.5000	0.03860	ug/L	!ib
Cobalt	[0.009559]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.009410]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.02187]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1111324	-2.50
Scandium	634190	541147	-14.67
Germanium	133389	126089	-5.47
Indium	777897	778141	0.03
Bismuth	641813	637173	-0.72

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987090 File : c2517090 Time : 26-MAR-2006 01:23
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	[0.2245]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.04980]	0.5000	0.03860	ug/L	!ib
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.005396]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2101]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1133391	-0.56
Scandium	634190	541140	-14.67
Germanium	133389	126441	-5.21
Indium	777897	782619	0.61
Bismuth	641813	650301	1.32

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987099 File : c2517099 Time : 26-MAR-2006 02:13
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.05149]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	[0.02873]	0.2500	0.02391	ug/L	!ib
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.009781]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.009906]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.02093]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1073894	-5.78
Scandium	634190	501583	-20.91
Germanium	133389	122881	-7.88
Indium	777897	773944	-0.51
Bismuth	641813	646434	0.72

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987113 File : c2517113 Time : 26-MAR-2006 03:32
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.009308]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.02610]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1085746	-4.74
Scandium	634190	521946	-17.70
Germanium	133389	123756	-7.22
Indium	777897	769437	-1.09
Bismuth	641813	627016	-2.31

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987126 File : c2517126 Time : 26-MAR-2006 04:44
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.01176]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.07172]	0.5000	0.03860	ug/L	!ib
Cobalt	[0.01989]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.02045]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.02815]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1086521	-4.68
Scandium	634190	548533	-13.51
Germanium	133389	125226	-6.12
Indium	777897	762596	-1.97
Bismuth	641813	614903	-4.19

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987141 File : c2517141 Time : 26-MAR-2006 06:07
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	[0.2351]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.01095]	0.2500	0.009674	ug/L	!ib
Cadmium	[0.05193]	0.2500	0.04566	ug/L	!ib
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.06947]	0.5000	0.03860	ug/L	!ib
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01307]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1503]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1158421	1.63
Scandium	634190	600105	-5.37
Germanium	133389	128008	-4.03
Indium	777897	783400	0.71
Bismuth	641813	620493	-3.32

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987158 File : c2517158 Time : 26-MAR-2006 07:41
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.05171]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.01144]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.06108]	0.5000	0.03860	ug/L	!ib
Cobalt	[0.01252]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01606]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.07076]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.02273]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1124218	-1.37
Scandium	634190	560923	-11.55
Germanium	133389	124976	-6.31
Indium	777897	711148	-8.58
Bismuth	641813	580933	-9.49

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987172 File : c2517172 Time : 26-MAR-2006 09:00
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.07033]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1992]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.01504]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.1130]	0.5000	0.03860	ug/L	!ib
Cobalt	[0.01477]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	[7.184]	50.00	6.980	ug/L	!ib
Lead	[0.01491]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.03342]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1203551	5.59
Scandium	634190	609504	-3.89
Germanium	133389	128322	-3.80
Indium	777897	755770	-2.84
Bismuth	641813	594769	-7.33

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987181 File : c2517181 Time : 26-MAR-2006 09:49
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	[0.03342]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.01025]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.04618]	0.5000	0.03860	ug/L	!ib
Cobalt	[0.008954]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01437]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1107452	-2.84
Scandium	634190	534832	-15.67
Germanium	133389	118854	-10.90
Indium	777897	713139	-8.32
Bismuth	641813	597288	-6.94

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987188 File : c2517188 Time : 26-MAR-2006 10:28
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1153515	1.20
Scandium	634190	542398	-14.47
Germanium	133389	124282	-6.83
Indium	777897	761284	-2.14
Bismuth	641813	622558	-3.00

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987015 File : c2517015 Time : 25-MAR-2006 18:29
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	104700	ug/L	5		
Arsenic	100.0	99.11	ug/L	-1	20	
Cadmium	100.0	89.07	ug/L	-11	20	
Calcium	300000	339900	ug/L	13		
Chromium	200.0	234.0	ug/L	17	20	
Cobalt	200.0	225.3	ug/L	13	20	
Copper	200.0	192.3	ug/L	-4	20	
Iron	250000	268400	ug/L	7		
Magnesium	100000	112800	ug/L	13		
Manganese	200.0	233.7	ug/L	17	20	
Molybdenum	2000	2242	ug/L	12		
Nickel	200.0	207.6	ug/L	4	20	
Potassium	100000	108700	ug/L	9		
Selenium	100.0	81.51	ug/L	-18	20	
Silver	50.00	46.19	ug/L	-8	20	
Sodium	250000	289100	ug/L	16		
Vanadium	200.0	235.7	ug/L	18	20	
Zinc	100.0	80.75	ug/L	-19	20	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Scandium	634190	466890	-26.38
Germanium	133389	110042	-17.50

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987016 File : c2517016 Time : 25-MAR-2006 18:34
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.946	0.2500	ug/L	
Arsenic	0.7101	0.5000	ug/L	
Barium	1.173	0.2500	ug/L	
Beryllium	[0.008757]	0.2500	ug/L	
Cadmium	[0.1108]	0.2500	ug/L	
Chromium	2.143	0.5000	ug/L	
Cobalt	3.311	0.2500	ug/L	
Copper	2.145	0.5000	ug/L	
Lead	1.411	0.2500	ug/L	
Manganese	1.289	0.2500	ug/L	
Nickel	2.485	0.2500	ug/L	
Selenium	[0.3048]	0.5000	ug/L	
Silver	[0.1309]	0.2500	ug/L	
Thallium	[0.06303]	0.5000	ug/L	
Vanadium	[0.3017]	1.000	ug/L	
Zinc	3.143	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	103400	ug/L	103
Calcium	300000	348400	ug/L	116
Iron	250000	281200	ug/L	112
Magnesium	100000	111300	ug/L	111
Molybdenum	2000	2292	ug/L	115
Potassium	100000	108500	ug/L	109
Sodium	250000	292600	ug/L	117

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	847328	-25.66
Scandium	634190	453404	-28.51
Germanium	133389	108022	-19.02
Indium	777897	613455	-21.14
Bismuth	641813	437540	-31.83

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987051 File : c2517051 Time : 25-MAR-2006 21:47
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.574	0.2500	ug/L	
Arsenic	0.8331	0.5000	ug/L	
Barium	1.124	0.2500	ug/L	
Beryllium	[0.02156]	0.2500	ug/L	
Cadmium	[0.05292]	0.2500	ug/L	
Chromium	2.004	0.5000	ug/L	
Cobalt	3.213	0.2500	ug/L	
Copper	2.219	0.5000	ug/L	
Lead	1.346	0.2500	ug/L	
Manganese	1.264	0.2500	ug/L	
Nickel	2.285	0.2500	ug/L	
Selenium	0.6368	0.5000	ug/L	
Silver	[0]	0.2500	ug/L	
Thallium	[0.1215]	0.5000	ug/L	
Vanadium	[0.2434]	1.000	ug/L	
Zinc	3.194	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	96790	ug/L	97
Calcium	300000	329800	ug/L	110
Iron	250000	277700	ug/L	111
Magnesium	100000	105500	ug/L	106
Molybdenum	2000	2285	ug/L	114
Potassium	100000	100000	ug/L	100
Sodium	250000	277500	ug/L	111

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	845474	-25.82
Scandium	634190	432354	-31.83
Germanium	133389	103499	-22.41
Indium	777897	618021	-20.55
Bismuth	641813	443853	-30.84

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987053 File : c2517053 Time : 25-MAR-2006 21:58
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	96260	ug/L	-4		
Arsenic	100.0	91.56	ug/L	-8	20	
Cadmium	100.0	89.71	ug/L	-10	20	
Calcium	300000	334200	ug/L	11		
Chromium	200.0	221.9	ug/L	11	20	
Cobalt	200.0	216.3	ug/L	8	20	
Copper	200.0	179.8	ug/L	-10	20	
Iron	250000	273900	ug/L	10		
Magnesium	100000	104300	ug/L	4		
Manganese	200.0	229.2	ug/L	15	20	
Molybdenum	2000	2295	ug/L	15		
Nickel	200.0	196.4	ug/L	-2	20	
Potassium	100000	100700	ug/L	1		
Selenium	100.0	80.92	ug/L	-19	20	
Silver	50.00	45.10	ug/L	-10	20	
Sodium	250000	272900	ug/L	9		
Vanadium	200.0	221.1	ug/L	11	20	
Zinc	100.0	83.06	ug/L	-17	20	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Scandium	634190	409139	-35.49
Germanium	133389	97933	-26.58

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987127 File : c2517127 Time : 26-MAR-2006 04:50
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.625	0.2500	ug/L	
Arsenic	0.8609	0.5000	ug/L	
Barium	1.116	0.2500	ug/L	
Beryllium	[0.008506]	0.2500	ug/L	
Cadmium	[0.2117]	0.2500	ug/L	
Chromium	2.121	0.5000	ug/L	
Cobalt	3.307	0.2500	ug/L	
Copper	2.212	0.5000	ug/L	
Lead	1.299	0.2500	ug/L	
Manganese	1.275	0.2500	ug/L	
Nickel	2.463	0.2500	ug/L	
Selenium	0.7295	0.5000	ug/L	
Silver	[0]	0.2500	ug/L	
Thallium	[0.02630]	0.5000	ug/L	
Vanadium	[0.1900]	1.000	ug/L	
Zinc	2.994	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	102300	ug/L	102
Calcium	300000	340600	ug/L	114
Iron	250000	284500	ug/L	114
Magnesium	100000	111700	ug/L	112
Molybdenum	2000	2275	ug/L	114
Potassium	100000	106000	ug/L	106
Sodium	250000	292500	ug/L	117

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	785562	-31.08
Scandium	634190	401529	-36.69
Germanium	133389	93809	-29.67
Indium	777897	541410	-30.40
Bismuth	641813	404787	-36.93

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987129 File : c2517129 Time : 26-MAR-2006 05:00
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	102700	ug/L	3		
Arsenic	100.0	93.75	ug/L	-6	20	
Cadmium	100.0	89.78	ug/L	-10	20	
Calcium	300000	340400	ug/L	13		
Chromium	200.0	236.0	ug/L	18	20	
Cobalt	200.0	225.5	ug/L	13	20	
Copper	200.0	185.0	ug/L	-8	20	
Iron	250000	285100	ug/L	14		
Magnesium	100000	108000	ug/L	8		
Manganese	200.0	237.8	ug/L	19	20	
Molybdenum	2000	2319	ug/L	16		
Nickel	200.0	201.8	ug/L	1	20	
Potassium	100000	106000	ug/L	6		
Selenium	100.0	82.53	ug/L	-17	20	
Silver	50.00	45.50	ug/L	-9	20	
Sodium	250000	279800	ug/L	12		
Vanadium	200.0	235.5	ug/L	18	20	
Zinc	100.0	86.17	ug/L	-14	20	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Scandium	634190	393873	-37.89
Germanium	133389	90344	-32.27

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987175 File : c2517175 Time : 26-MAR-2006 09:16
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	107000	ug/L	7		
Arsenic	100.0	92.94	ug/L	-7	20	
Cadmium	100.0	86.95	ug/L	-13	20	
Calcium	300000	344200	ug/L	15		
Chromium	200.0	231.8	ug/L	16	20	
Cobalt	200.0	222.7	ug/L	11	20	
Copper	200.0	185.1	ug/L	-7	20	
Iron	250000	280000	ug/L	12		
Magnesium	100000	113700	ug/L	14		
Manganese	200.0	236.2	ug/L	18	20	
Molybdenum	2000	2279	ug/L	14		
Nickel	200.0	201.0	ug/L	1	20	
Potassium	100000	108500	ug/L	9		
Selenium	100.0	80.55	ug/L	-19	20	
Silver	50.00	44.07	ug/L	-12	20	
Sodium	250000	291200	ug/L	16		
Vanadium	200.0	232.6	ug/L	16	20	
Zinc	100.0	85.08	ug/L	-15	20	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Scandium	634190	405554	-36.05
Germanium	133389	92414	-30.72

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987179 File : c2517179 Time : 26-MAR-2006 09:38
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.6555	150.0	158.9	ug/L	6	10	
Antimony	0.1796	0.1345	150.0	159.6	ug/L	6	10	
Arsenic	0.3225	0.2873	150.0	150.5	ug/L	0	10	
Barium	0.0659	0.0650	150.0	159.0	ug/L	6	10	
Beryllium	0.1182	0.1138	150.0	156.8	ug/L	5	10	
Cadmium	0.3603	0.2724	150.0	158.3	ug/L	6	10	
Calcium	0.0133	0.0122	15000	15200	ug/L	1	10	
Chromium	2.5425	1.9352	150.0	166.9	ug/L	11	10	c+ ***
Cobalt	2.3244	2.3799	150.0	160.3	ug/L	7	10	
Copper	0.6383	0.5881	150.0	150.9	ug/L	1	10	
Iron	0.0578	0.0555	15000	16350	ug/L	9	10	
Lead	0.7261	0.6970	150.0	145.9	ug/L	-3	10	
Magnesium	0.0753	0.0736	15000	15720	ug/L	5	10	
Manganese	2.5751	2.5530	150.0	164.3	ug/L	10	10	
Molybdenum	0.5509	0.5367	150.0	150.5	ug/L	0	10	
Nickel	0.5202	0.5003	150.0	156.4	ug/L	4	10	
Potassium	0.6373	0.4481	15000	14740	ug/L	-2	10	
Selenium	0.0372	0.0284	150.0	152.2	ug/L	1	10	
Silver	1.6971	1.3707	150.0	156.8	ug/L	5	10	
Sodium	0.7420	0.7310	15000	16280	ug/L	9	10	
Thallium	0.5159	0.5297	150.0	151.2	ug/L	1	10	
Vanadium	2.3536	2.2918	150.0	164.2	ug/L	9	10	
Zinc	0.4171	0.3291	150.0	157.0	ug/L	5	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1110785	-2.55
Scandium	634190	551473	-13.04
Germanium	133389	120272	-9.83
Indium	777897	702223	-9.73
Bismuth	641813	582476	-9.25

+=high bias c=CCV

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987182 File : c2517182 Time : 26-MAR-2006 09:55
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.411	0.2500	ug/L	
Arsenic	0.5824	0.5000	ug/L	
Barium	1.194	0.2500	ug/L	
Beryllium	[0.01251]	0.2500	ug/L	
Cadmium	[0.1288]	0.2500	ug/L	
Chromium	1.980	0.5000	ug/L	
Cobalt	3.207	0.2500	ug/L	
Copper	2.222	0.5000	ug/L	
Lead	1.224	0.2500	ug/L	
Manganese	1.215	0.2500	ug/L	
Nickel	2.601	0.2500	ug/L	
Selenium	0.6108	0.5000	ug/L	
Silver	[0]	0.2500	ug/L	
Thallium	[0.04881]	0.5000	ug/L	
Vanadium	[0.2199]	1.000	ug/L	
Zinc	2.745	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	99540	ug/L	100
Calcium	300000	330000	ug/L	110
Iron	250000	273100	ug/L	109
Magnesium	100000	106300	ug/L	106
Molybdenum	2000	2186	ug/L	109
Potassium	100000	103400	ug/L	103
Sodium	250000	276700	ug/L	111

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	844702	-25.89
Scandium	634190	440154	-30.60
Germanium	133389	97686	-26.77
Indium	777897	551046	-29.16
Bismuth	641813	411258	-35.92

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987183 File : c2517183 Time : 26-MAR-2006 10:01
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	101800	ug/L	2		
Arsenic	100.0	98.84	ug/L	-1	20	
Cadmium	100.0	88.83	ug/L	-11	20	
Calcium	300000	337400	ug/L	12		
Chromium	200.0	246.3	ug/L	**23**	20	ab+ ***
Cobalt	200.0	232.1	ug/L	16	20	
Copper	200.0	190.4	ug/L	-5	20	
Iron	250000	274900	ug/L	10		
Magnesium	100000	109500	ug/L	10		
Manganese	200.0	245.4	ug/L	**23**	20	ab+ ***
Molybdenum	2000	2253	ug/L	13		
Nickel	200.0	211.2	ug/L	6	20	
Potassium	100000	106200	ug/L	6		
Selenium	100.0	86.64	ug/L	-13	20	
Silver	50.00	45.86	ug/L	-8	20	
Sodium	250000	283600	ug/L	13		
Vanadium	200.0	250.6	ug/L	**25**	20	ab+ ***
Zinc	100.0	86.02	ug/L	-14	20	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Scandium	634190	421953	-33.47
Germanium	133389	94857	-28.89

+=high bias ab=ICSAB

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56121987 Instrument: MET05 Agilent ICP-MS Begun: 25-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	c2517001	TUN				25-MAR-2006 17:07	1.0	1.0				1	
003	c2517003	ICALBLK	std-blk			25-MAR-2006 17:19	1.0	1.0				2	
004	c2517004	ICAL	CS1			25-MAR-2006 17:25	1.0	1.0				3	
005	c2517005	ICAL	CS2			25-MAR-2006 17:30	1.0	1.0				4	
006	c2517006	ICAL	CS3			25-MAR-2006 17:36	1.0	1.0				5	
007	c2517007	ICAL	CS4			25-MAR-2006 17:41	1.0	1.0				6	
008	c2517008	ICAL	CS5			25-MAR-2006 17:47	1.0	1.0				7	
009	c2517009	ICAL	CS6			25-MAR-2006 17:52	1.0	1.0				8	
013	c2517013	ICV				25-MAR-2006 18:18	1.0	1.0			1	9 2	
014	c2517014	ICB				25-MAR-2006 18:23	1.0	1.0	1		1	2	
015	c2517015	ICSAB				25-MAR-2006 18:29	1.0	1.0			1	10 2	12:CA=339900
016	c2517016	ICSA				25-MAR-2006 18:34	1.0	1.0			1	11 2	7:CA=348400
019	c2517019	BLANK	QC332965	111659	Water	25-MAR-2006 18:51	1.0	1.0			1	2	
020	c2517020	BS	QC332966	111659	Water	25-MAR-2006 18:56	1.0	1.0			1	2	
021	c2517021	BSD	QC332967	111659	Water	25-MAR-2006 19:02	1.0	1.0		3	1	2 spk	
022	c2517022	MSS	185408-008	111659	Water	25-MAR-2006 19:07	1.0	1.0	4		1	2 spk	3:NA=25[illegible]0.0
023	c2517023	SER	QC332972	111659	Water	25-MAR-2006 19:13	5.0	1.0		5	1	2	1:AL=1231.80
024	c2517024	MSS	185408-008	111659	Water	25-MAR-2006 19:18	20.0	1.0	1		1	2 spk	1:AL=369.650
025	c2517025	SER	QC332972	111659	Water	25-MAR-2006 19:24	100.0	1.0		1	1	2	
026	c2517026	CCV				25-MAR-2006 19:29	1.0	1.0			1	12 2	
029	c2517029	CCB				25-MAR-2006 19:46	1.0	1.0			1	2	
030	c2517030	MS	QC332968	111659	Water	25-MAR-2006 19:51	1.0	1.0	6		1	2	7:NA=36540.0
031	c2517031	MSD	QC332969	111659	Water	25-MAR-2006 19:57	1.0	1.0	6		1	2	7:NA=35540.0
032	c2517032	PDS	QC332973	111659	Water	25-MAR-2006 20:02	1.0	1.0	4		1	13 2	7:NA=38500.0
033	c2517033	MS	QC332968	111659	Water	25-MAR-2006 20:08	20.0	1.0		1	1	2	1:AL=433.300
034	c2517034	MSD	QC332969	111659	Water	25-MAR-2006 20:13	20.0	1.0			1	2	1:AL=411.050
035	c2517035	PDS	QC332973	111659	Water	25-MAR-2006 20:19	20.0	1.0			1	13 2	1:AL=418.850
036	c2517036	MSS	185408-010	111659	Water	25-MAR-2006 20:25	1.0	1.0	5		1	2 spk	5:NA=52530.0
037	c2517037	SAMPLE	185408-009	111659	Water	25-MAR-2006 20:30	1.0	1.0	2		1	2 spk	2:NA=23620.0
038	c2517038	SAMPLE	185408-009	111659	Water	25-MAR-2006 20:35	20.0	1.0	1		1	2 spk	1:AL=317.400

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2894 11=S2893 12=S2896 13=S2309 14=S28
Flags used: spk=5% spike rule

Analyst: [illegible] Date: 3/28/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56121987 Instrument: MET05 Agilent ICP-MS Begun: 25-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
040	c2517040	CCV				25-MAR-2006 20:47	1.0	1.0			1	12 2	
043	c2517043	CCB				25-MAR-2006 21:03	1.0	1.0			1	2	
044	c2517044	MS	QC332970	111659	Water	25-MAR-2006 21:09	1.0	1.0	3		1	2	6:NA=60660.0
045	c2517045	MSD	QC332971	111659	Water	25-MAR-2006 21:14	1.0	1.0	3		1	2	6:NA=60550.0
046	c2517046	MSS	185408-010	111659	Water	25-MAR-2006 21:20	20.0	1.0	2		1	2 spk	1:AL=222.750
047	c2517047	MS	QC332970	111659	Water	25-MAR-2006 21:25	20.0	1.0		1	1	2	
048	c2517048	MSD	QC332971	111659	Water	25-MAR-2006 21:31	20.0	1.0		1	1	2	
049	c2517049	SAMPLE	185408-011	111659	Water	25-MAR-2006 21:36	1.0	1.0	5		1	2 spk	5:NA=48350.0
050	c2517050	SAMPLE	185408-011	111659	Water	25-MAR-2006 21:42	20.0	1.0	2		1	2 spk	1:AL=234.950
051	c2517051	ICSA				25-MAR-2006 21:47	1.0	1.0			1	11 2	7:CA=329800
053	c2517053	ICSAB				25-MAR-2006 21:58	1.0	1.0			1	10 2	11:CA=334200
059	c2517059	CCV				25-MAR-2006 22:31	1.0	1.0	1		1	12 2	
062	c2517062	CCB				25-MAR-2006 22:48	1.0	1.0			1	2	
063	c2517063	SAMPLE	185586-023	111436	Filtra	25-MAR-2006 22:53	1.0	1.0	1		1	2	
064	c2517064	SAMPLE	185586-024	111436	Filtra	25-MAR-2006 22:59	1.0	1.0	3		1	2	3:MG=64630.0
065	c2517065	SAMPLE	185586-025	111436	Filtra	25-MAR-2006 23:04	1.0	1.0	2		1	2	2:MG=52820.0
066	c2517066	SAMPLE	185586-026	111436	Filtra	25-MAR-2006 23:10	1.0	1.0	3		1	2	3:NA=66300.0
067	c2517067	SAMPLE	185586-001	111436	Filtra	25-MAR-2006 23:15	20.0	1.0	1		1	2	
068	c2517068	SAMPLE	185586-002	111436	Filtra	25-MAR-2006 23:21	20.0	1.0	2		1	2	1:MN=212.200
069	c2517069	SAMPLE	185586-003	111436	Filtra	25-MAR-2006 23:27	20.0	1.0	1		1	2	
070	c2517070	SAMPLE	185586-018	111436	Filtra	25-MAR-2006 23:32	20.0	1.0	1		1	2	
071	c2517071	SAMPLE	185586-019	111436	Filtra	25-MAR-2006 23:38	20.0	1.0	1		1	2	
073	c2517073	CCV				25-MAR-2006 23:49	1.0	1.0			1	12 2	
076	c2517076	CCB				26-MAR-2006 00:05	1.0	1.0			1	2	
077	c2517077	SAMPLE	185586-020	111436	Filtra	26-MAR-2006 00:11	20.0	1.0	3		1	2	
078	c2517078	SAMPLE	185586-021	111436	Filtra	26-MAR-2006 00:17	20.0	1.0	3		1	2	
079	c2517079	SAMPLE	185586-022	111436	Filtra	26-MAR-2006 00:22	20.0	1.0	1		1	2	
080	c2517080	SAMPLE	185586-023	111436	Filtra	26-MAR-2006 00:28	20.0	1.0	1		1	2	
081	c2517081	SAMPLE	185586-024	111436	Filtra	26-MAR-2006 00:33	20.0	1.0	1		1	2	
082	c2517082	SAMPLE	185586-025	111436	Filtra	26-MAR-2006 00:39	20.0	1.0	1		1	2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2894 11=S2893 12=S2896 13=S2309 14=S28
Flags used: spk=5% spike rule

Analyst: [signature] Date: 3/30/0

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56121987 Instrument: MET05 Agilent ICP-MS Begun: 25-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
083	c2517083	SAMPLE	185586-026	111436	Filtra	26-MAR-2006 00:44	20.0	1.0	1		1	2	
084	c2517084	SAMPLE	185558-011	111421	Filtra	26-MAR-2006 00:50	1.0	1.0	6		1	2	4:NA=160600
085	c2517085	SAMPLE	185558-012	111421	Filtra	26-MAR-2006 00:56	1.0	1.0	7		1	2	4:MG=91140.0
086	c2517086	SAMPLE	185558-013	111421	Filtra	26-MAR-2006 01:01	1.0	1.0	6		1	2	3:MG=102800
088	c2517088	CCV			Filtra	26-MAR-2006 01:12	1.0	1.0	6		1	14 2	
090	c2517090	CCB			Filtra	26-MAR-2006 01:23	1.0	1.0			1	2	
091	c2517091	SAMPLE	185558-014	111421	Filtra	26-MAR-2006 01:29	1.0	1.0	6		1	2	4:MG=157400
092	c2517092	SAMPLE	185558-015	111421	Filtra	26-MAR-2006 01:34	1.0	1.0	5		1	2	3:NA=59300.0
093	c2517093	SAMPLE	185558-016	111421	Filtra	26-MAR-2006 01:40	1.0	1.0	5		1	2	4:MG=63060.0
094	c2517094	SAMPLE	185558-017	111421	Filtra	26-MAR-2006 01:45	1.0	1.0	3		1	2	2:NA=154800
095	c2517095	SAMPLE	185558-018	111421	Filtra	26-MAR-2006 01:51	1.0	1.0	5		1	2	3:NA=160000
097	c2517097	CCV				26-MAR-2006 02:02	1.0	1.0	8		1	14 2	
099	c2517099	CCB				26-MAR-2006 02:13	1.0	1.0			1	2	
100	c2517100	TUN				26-MAR-2006 02:19	1.0	1.0				1	
101	c2517101	SAMPLE	185558-019	111421	Filtra	26-MAR-2006 02:25	1.0	1.0	5		1	2	6:CA=94520.0
102	c2517102	SAMPLE	185558-020	111421	Filtra	26-MAR-2006 02:31	1.0	1.0	5		1	2	4:CA=82420.0
103	c2517103	SAMPLE	185558-022	111421	Filtra	26-MAR-2006 02:36	1.0	1.0	6		1	2	7:CA=133700
104	c2517104	SAMPLE	185558-026	111421	Filtra	26-MAR-2006 02:42	1.0	1.0	5		1	2	4:NA=65320.0
105	c2517105	SAMPLE	185558-027	111421	Filtra	26-MAR-2006 02:47	1.0	1.0	4		1	2	1:NA=316300
106	c2517106	SAMPLE	185558-011	111421	Filtra	26-MAR-2006 02:53	20.0	1.0	4		1	2	
107	c2517107	SAMPLE	185558-012	111421	Filtra	26-MAR-2006 02:58	20.0	1.0	2		1	2	
108	c2517108	SAMPLE	185558-013	111421	Filtra	26-MAR-2006 03:04	20.0	1.0	2		1	2	
109	c2517109	SAMPLE	185558-014	111421	Filtra	26-MAR-2006 03:09	20.0	1.0	3		1	2	
111	c2517111	CCV				26-MAR-2006 03:21	1.0	1.0	8		1	14 2	
113	c2517113	CCB				26-MAR-2006 03:32	1.0	1.0			1	2	
114	c2517114	SAMPLE	185558-015	111421	Filtra	26-MAR-2006 03:37	20.0	1.0	2		1	2	
115	c2517115	SAMPLE	185558-016	111421	Filtra	26-MAR-2006 03:43	20.0	1.0	4		1	2	
116	c2517116	SAMPLE	185558-017	111421	Filtra	26-MAR-2006 03:48	20.0	1.0	3		1	2	
117	c2517117	SAMPLE	185558-018	111421	Filtra	26-MAR-2006 03:54	20.0	1.0	3		1	2	
118	c2517118	SAMPLE	185558-019	111421	Filtra	26-MAR-2006 04:00	20.0	1.0	4		1	2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2894 11=S2893 12=S2896 13=S2309 14=S28
Flags used: spk=5% spike rule

Analyst: _____ Date: 3/25/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56121987 Instrument: MET05 Agilent ICP-MS Begun: 25-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
119	c2517119	SAMPLE	185558-020	111421	Filtra	26-MAR-2006 04:05	20.0	1.0	4		1	2	
120	c2517120	SAMPLE	185558-022	111421	Filtra	26-MAR-2006 04:11	20.0	1.0	4		1	2	
121	c2517121	SAMPLE	185558-026	111421	Filtra	26-MAR-2006 04:16	20.0	1.0	3		1	2	
122	c2517122	SAMPLE	185558-027	111421	Filtra	26-MAR-2006 04:22	20.0	1.0	1		1	2	
124	c2517124	CCV				26-MAR-2006 04:33	1.0	1.0	7		1	14 2	
126	c2517126	CCB				26-MAR-2006 04:44	1.0	1.0			1	2	
127	c2517127	ICSA				26-MAR-2006 04:50	1.0	1.0			1	11 2	7:CA=340600
129	c2517129	ICSAB				26-MAR-2006 05:00	1.0	1.0			1	10 2	12:CA=340400
131	c2517131	BLANK	QC332485	111547	Filtra	26-MAR-2006 05:11	1.0	1.0	7		1	2	
132	c2517132	BS	QC332486	111547	Filtra	26-MAR-2006 05:17	1.0	1.0	7	1	1	2	
133	c2517133	BSD	QC332487	111547	Filtra	26-MAR-2006 05:22	1.0	1.0	7	11	1	2 spk	
134	c2517134	MSS	185414-001	111547	Filtra	26-MAR-2006 05:28	1.0	1.0	5		1	2 spk	1:NA=21870.0
135	c2517135	SER	QC332490	111547	Filtra	26-MAR-2006 05:34	5.0	1.0			1	2	
136	c2517136	MS	QC332488	111547	Filtra	26-MAR-2006 05:39	1.0	1.0	3		1	2	2:NA=34740.0
137	c2517137	MSD	QC332489	111547	Filtra	26-MAR-2006 05:45	1.0	1.0	3	1	1	2	2:NA=32750.0
139	c2517139	CCV				26-MAR-2006 05:56	1.0	1.0	2		1	14 2	
141	c2517141	CCB				26-MAR-2006 06:07	1.0	1.0			1	2	
146	c2517146	SAMPLE	185414-002	111547	Filtra	26-MAR-2006 06:34	1.0	1.0	2		1	2 spk	1:NA=37960.0
147	c2517147	SAMPLE	185414-003	111547	Filtra	26-MAR-2006 06:40	1.0	1.0	2		1	2 spk	1:NA=42380.0
148	c2517148	SAMPLE	185414-004	111547	Filtra	26-MAR-2006 06:46	1.0	1.0	1		1	2 spk	2:CA=34290.0
149	c2517149	SAMPLE	185414-005	111547	Filtra	26-MAR-2006 06:51	1.0	1.0	1		1	2 spk	4:CA=41030.0
150	c2517150	SAMPLE	185414-006	111547	Filtra	26-MAR-2006 06:57	1.0	1.0	2		1	2 spk	1:NA=46520.0
151	c2517151	SAMPLE	185414-007	111547	Filtra	26-MAR-2006 07:02	1.0	1.0	2		1	2 spk	3:CA=45570.0
152	c2517152	SAMPLE	185414-008	111547	Filtra	26-MAR-2006 07:08	1.0	1.0	2		1	2 spk	2:NA=23960.0
153	c2517153	SAMPLE	185414-009	111547	Filtra	26-MAR-2006 07:13	1.0	1.0	4		1	2 spk	6:CA=95500.0
154	c2517154	SAMPLE	185414-010	111547	Filtra	26-MAR-2006 07:19	1.0	1.0	2		1	2 spk	4:CA=44360.0
156	c2517156	CCV				26-MAR-2006 07:30	1.0	1.0	6		1	14 2	
158	c2517158	CCB				26-MAR-2006 07:41	1.0	1.0			1	2	
159	c2517159	TUN				26-MAR-2006 07:47	1.0	1.0				1	
160	c2517160	SAMPLE	185414-011	111547	Filtra	26-MAR-2006 07:53	1.0	1.0	3		1	2 spk	3:FE=51060.0

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2894 11=S2893 12=S2896 13=S2309 14=S28
Flags used: spk=5% spike rule

Analyst: [illegible] Date: 3/28/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56121987 Instrument: MET05 Agilent ICP-MS Begun: 25-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used		>LR
161	c2517161	SAMPLE	185414-012	111547	Filtra	26-MAR-2006 07:59	1.0	1.0	2		1	2	spk	1:NA=39240.0
162	c2517162	SAMPLE	185414-013	111547	Filtra	26-MAR-2006 08:04	1.0	1.0	2		1	2	spk	1:NA=31470.0
163	c2517163	SAMPLE	185683-001	111547	Water	26-MAR-2006 08:10	1.0	1.0	1		1	2	spk	3:NA=81660.0
164	c2517164	SAMPLE	185684-001	111547	Water	26-MAR-2006 08:15	1.0	1.0	1		1	2	spk	1:AL=757.400
165	c2517165	SAMPLE	185685-001	111547	Water	26-MAR-2006 08:21	1.0	1.0	1		1	2	spk	2:NA=88630.0
166	c2517166	SAMPLE	185686-001	111547	Water	26-MAR-2006 08:27	1.0	1.0	1		1	2	spk	2:NA=66820.0
167	c2517167	SAMPLE	185687-001	111547	Water	26-MAR-2006 08:32	1.0	1.0	1		1	2	spk	
168	c2517168	SAMPLE	185688-001	111547	Water	26-MAR-2006 08:38	1.0	1.0	1		1	2	spk	1:AL=2407.00
170	c2517170	CCV				26-MAR-2006 08:49	1.0	1.0	2		1	14	2	
172	c2517172	CCB				26-MAR-2006 09:00	1.0	1.0			1	2		
175	c2517175	ICSAB				26-MAR-2006 09:16	1.0	1.0			1	10	2	12:CA=344200
179	c2517179	CCV				26-MAR-2006 09:38	1.0	1.0	1		1	14	2	
181	c2517181	CCB				26-MAR-2006 09:49	1.0	1.0			1	2		
182	c2517182	ICSA				26-MAR-2006 09:55	1.0	1.0			1	11	2	7:CA=330000
183	c2517183	ICSAB				26-MAR-2006 10:01	1.0	1.0	3		1	10	2	12:CA=337400
186	c2517186	CCV				26-MAR-2006 10:17	1.0	1.0	3		1	14	2	
188	c2517188	CCB				26-MAR-2006 10:28	1.0	1.0			1	2		

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2894 11=S2893 12=S2896 13=S2309 14=S28
Flags used: spk=5% spike rule

Analyst: [illegible] Date: 3/28/6

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56125898001
Units : ug/L

Date : 28-MAR-2006 10:30
X Axis : R

Reviewer: ---
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	c2810004	56125898004	CS1	28-MAR-2006 10:35	S2889
L2	c2810005	56125898005	CS2	28-MAR-2006 10:41	S2890
L3	c2810006	56125898006	CS3	28-MAR-2006 10:46	S2891
L4	c2810007	56125898007	CS4	28-MAR-2006 10:52	S2892
L5	c2810008	56125898008	CS5	28-MAR-2006 10:57	S2886
L6	c2810009	56125898009	CS6	28-MAR-2006 11:03	S2887

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		1.0468	0.6843	0.3759	0.3268	0.3306	BLNK	-0.6728	3.04346		0.5529	1.000	0.995	
Antimony	0.2186	0.1789	0.1530	0.1404	0.1426	0.1403	BLNK	-0.1642	7.11373		0.1623	1.000	0.995	
Arsenic		0.3867	0.3106	0.2511	0.2453	0.2456	BLNK	-0.3632	4.08175		0.2879	1.000	0.995	
Barium	0.0560	0.0565	0.0533	0.0521	0.0520	0.0523	BLNK	-0.0496	19.1625		0.0537	1.000	0.995	
Beryllium	0.0830	0.0870	0.0814	0.0806	0.0811	0.0831	BLNK	-0.0159	12.0965		0.0827	1.000	0.995	
Cadmium	0.4165	0.3049	0.2715	0.2169	0.2092	0.2022	BLNK	-0.2567	4.91867		0.2702	1.000	0.995	
Calcium		0.0198	0.0155	0.0113	0.0115	0.0109	BLNK	-40.840	90.7106		0.0138	0.999	0.995	
Chromium		5.0870	3.4631	2.0724	1.8894	1.9358	BLNK	-0.8248	0.52163		2.8896	1.000	0.995	
Cobalt	2.3955	2.4003	2.2691	2.2568	2.2831	2.2323	BLNK	-0.0177	0.44598		2.3062	1.000	0.995	
Copper		0.7507	0.6279	0.5578	0.5273	0.5145	BLNK	-0.1772	1.93582		0.5957	1.000	0.995	
Iron		0.1130	0.0830	0.0556	0.0546	0.0522	BLNK	-57.965	19.0551		0.0717	1.000	0.995	
Lead	0.6735	0.6467	0.6204	0.6150	0.6252	0.5987	BLNK	-0.0402	1.65607		0.6299	1.000	0.995	
Magnesium		0.0409	0.0421	0.0453	0.0407	0.0391	BLNK	-0.9763	25.3657		0.0416	1.000	0.995	
Manganese	5.0614	3.8796	3.2556	2.6304	2.6169	2.5420	BLNK	-0.2532	0.39168		3.3310	1.000	0.995	
Molybdenum		0.4615	0.4635	0.4550	0.4551	0.4484	BLNK	-0.0187	2.22363		0.4567	1.000	0.995	
Nickel	0.6956	0.6209	0.5515	0.5025	0.4735	0.4636	BLNK	-0.1016	2.14890		0.5513	1.000	0.995	
Potassium		1.9394	1.2285	0.4907	0.4175	0.3984	BLNK	-193.13	2.51478		0.8949	1.000	0.995	
Selenium		0.0393	0.0280	0.0184	0.0174	0.0170	BLNK	-0.6464	58.8780		0.0240	1.000	0.995	
Silver	1.1149	1.1024	1.0976	1.0583	1.0323	1.0045	BLNK	-0.0153	0.99001		1.0683	1.000	0.995	
Sodium		0.4893	0.5211	0.4775	0.4347	0.4274	BLNK	-6.4776	2.33210		0.4700	1.000	0.995	
Thallium		0.4236	0.4214	0.4166	0.4136	0.4189	BLNK	-0.0752	2.39432		0.4188	1.000	0.995	
Vanadium		3.2164	2.6432	2.2067	2.2861	2.2725	BLNK	-0.2108	0.44012		2.5250	1.000	0.995	
Zinc		0.8542	0.5023	0.3092	0.2722	0.2625	BLNK	-0.7743	3.79892		0.4401	1.000	0.995	

601

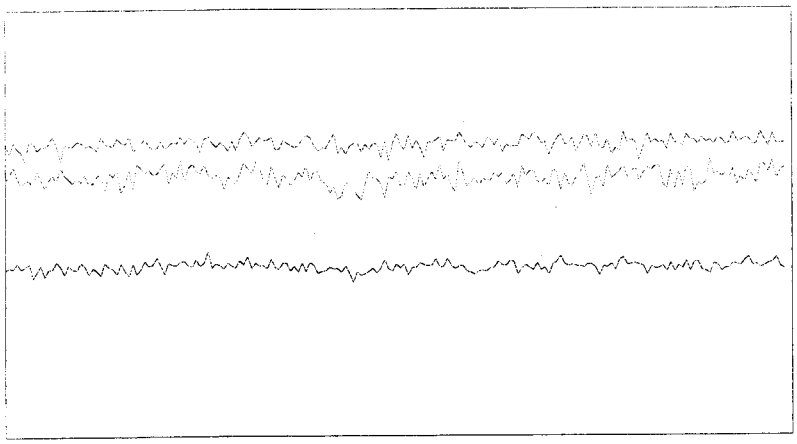
BLNK=Y=aX+[blank]

Instrument amount = a0 + response * a1 + response^2 * a2

56125898001

Tune Report

Tune File : ATUNE.U



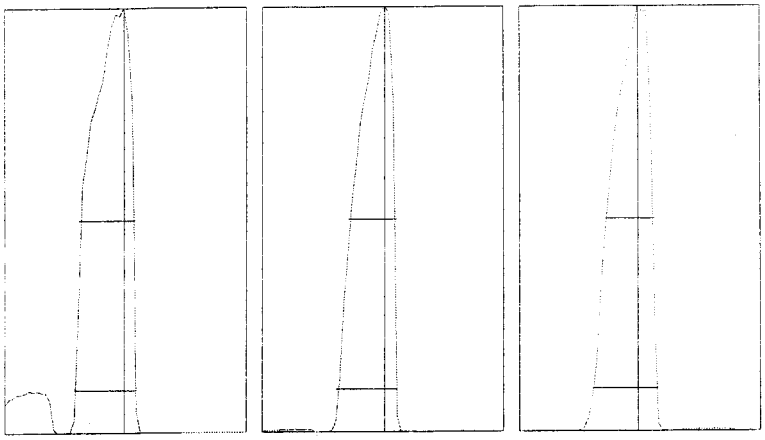
m/z:	7	89	205
Range:	50,000	50,000	20,000
Count:	19,499	34,205	12,565
Mean:	19812.0	34247.1	12111.9
RSD%:	2.65	2.00	3.29
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.36%
Doubly Charged:	70/140	1.36%

Background:

m/z:	7	89	205
Cps:	14.0	10.4	12.1



m/z:	7	89	205
Height:	19,707	33,925	11,430
Axis:	7.00	89.05	205.00
W-50%:	0.70	0.60	0.60
W-10%:	0.7500	0.7500	0.800

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1110 W	Extract 1:	-161.2 V	AMU Gain:	129
RF Matching:	1.62 V	Extract 2:	-56 V	AMU Offset:	126
Smpl Depth:	6.6 mm	Einzel 1,3:	-96 V	Axis Gain:	0.9998
Torch-H:	0 mm	Einzel 2:	16 V	Axis Offset:	-0.09
Torch-V:	0.4 mm	Omega Bias:	-36 V	QP Bias:	1.5 V
Carrier Gas:	1.25 L/min	Omega (+):	1 V		
Makeup Gas:	0 L/min	Omega (-):	-6.7 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	7.1 V	Discriminator:	8.7 mV
PeriPump1:	0.1 rps	Plate Bias:	-12.5 V	Analog HV:	1750 V
PeriPump2:	--- rps			Pulse HV:	1220 V
S/C Temp:	2 degC				

Generated : Mar 28, 2006 10:02:44
Printed : Mar 28, 2006 10:02:50

P/A Factor Tuning Report

Acquired:Mar 28 2006 10:09 am

Mass[amu]	Element	P/A Factor
6	Li	0.074535
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.098725
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.104897
45	Sc	0.100484
51	V	0.104147
52	Cr	0.105949
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.107993
57	Fe	0.110936
59	Co	0.110513
60	Ni	Sensitivity too low
63	Cu	0.111919
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.109555
95	Mo	Sensitivity too low
98	Mo	0.107723
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.115102
111	Cd	Sensitivity too low
114	Cd	0.113102
115	In	0.115937
118	(In)	Sensitivity too high
121	Sb	0.114392
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.118855
166	Er	Sensitivity too low

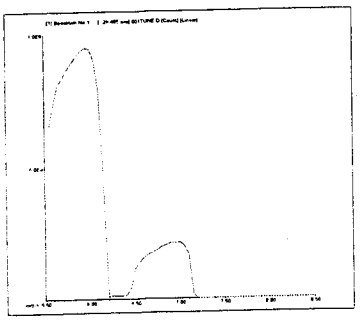
```
205        Tl    0.122316
206      (Pb)  Sensitivity too low
207      (Pb)  Sensitivity too low
208        Pb    0.120475
209        Bi    0.120381

===Detector Parameters===
  Discriminator: 8.7 mV
      Analog HV: 1750 V
       Pulse HV: 1220 V
```

6020 QC Tune Report

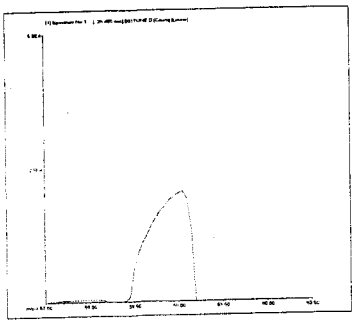
Data File: C:\ICPCHEM\1\DATA\06C2810a.B\001TUNE.D
Date Acquired: Mar 28 2006 10:18 am
Acq. Method: TN6020.M
Operator:
Sample Name: TUN,S2898
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

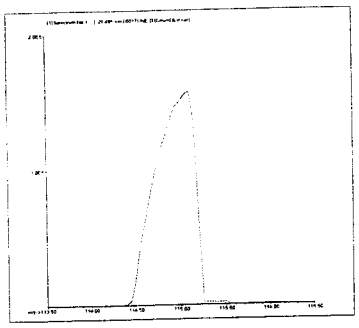
Element	Actual	Required	Flag
7 Li	0.77	5.00	
59 Co	1.23	5.00	
115 In	1.39	5.00	
205 Tl	1.44	5.00	



7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.55
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



115 In

Mass Calib.

Actual: 115.10

Required: 114.90 - 115.10

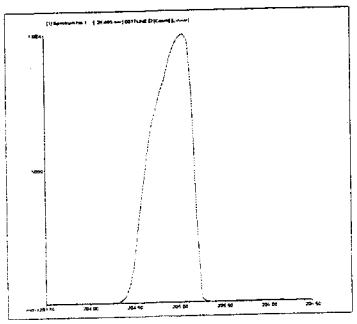
Flag:

Peak Width

Actual: 0.65

Required: 0.90

Flag:



205 Tl

Mass Calib.

Actual: 205.05

Required: 204.90 - 205.10

Flag:

Peak Width

Actual: 0.65

Required: 0.90

Flag:

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2810a.B\002BLNK.D\002BLNK.D#
Date Acquired:	Mar 28 2006 10:24 am
Acq. Method:	60200111.M
Operator:	
Sample Name:	RINSE
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update:	Mar 27 2006 06:33 pm
Sample Type:	6-Blank
Dilution Factor:	1.00

QC Elements

Element	Corr. Conc.		RSD(%)	Raw Conc.	High Limit	Flag
9 Be	-0.02809	ppb	23.79	-0.02809	1.00	
23 Na	-2.75	ppb	11.35	-2.75	1.00	
26 Mg	-4.76	ppb	3.30	-4.76	1.00	
27 Al	-2.966	ppb	1.17	-2.966	1.00	
39 K	178	ppb	0.49	178	1.00	
44 Ca	19.43	ppb	7.58	19.43	1.00	
51 V	0.3002	ppb	28.79	0.3002	1.00	
52 Cr	1.139	ppb	5.09	1.139	1.00	
55 Mn	0.3501	ppb	5.52	0.3501	1.00	
57 Fe	48.58	ppb	4.87	48.58	1.00	
59 Co	-0.02061	ppb	3.52	-0.02061	1.00	
60 Ni	0.1093	ppb	15.78	0.1093	1.00	
65 Cu	0.1745	ppb	3.17	0.1745	1.00	
66 Zn	0.3902	ppb	19.71	0.3902	1.00	
75 As	0.1612	ppb	103.60	0.1612	1.00	
82 Se	-0.02012	ppb	2102.90	-0.02012	1.00	
95 Mo	-0.08018	ppb	1.79	-0.08018	1.00	
109 Ag	-0.004156	ppb	81.98	-0.004156	1.00	
111 Cd	-0.02471	ppb	150.91	-0.02471	1.00	
121 Sb	-0.05285	ppb	38.20	-0.05285	1.00	
137 Ba	0.002724	ppb	378.49	0.002724	1.00	
205 Tl	0.2474	ppb	28.47	0.2474	1.00	
208 Pb	0.01324	ppb	27.36	0.01324	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	913409.56	1.12	---	#VALUE!	80 - 120	
45 Sc	926153.06	0.62	---	#VALUE!	80 - 120	
72 Ge	200419.56	0.28	---	#VALUE!	80 - 120	
115 In	1199751.00	0.39	---	#VALUE!	80 - 120	
209 Bi	487015.56	0.78	---	#VALUE!	80 - 120	

ISTD Ref File : ---

3 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes:	Fail
ISTD:	Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2810a.B\003CAL
Date Acquired:	Mar 28 2006 10:30 am
Operator:	
Sample Name:	std-blk
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 27 2006 06:33 pm
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	887561.63	A	14200.00	1.60
9	Be	23.33	P	12.02	51.51
23	Na	51025.55	P	900.60	1.77
26	Mg	707.78	P	160.90	22.73
27	Al	4060.00	P	141.90	3.50
39	K	1410793.00	A	9086.00	0.64
44	Ca	8269.62	P	182.90	2.21
45	Sc	918517.88	A	7583.00	0.83
51	V	1901.41	P	46.06	2.42
52	Cr	6274.44	P	336.50	5.36
55	Mn	2565.56	P	76.91	3.00
57	Fe	12073.33	P	235.10	1.95
59	Co	157.78	P	29.88	18.94
60	Ni	187.78	P	26.94	14.35
65	Cu	363.33	P	25.17	6.93
66	Zn	808.89	P	28.74	3.55
72	Ge	198458.41	P	1426.00	0.72
75	As	353.08	P	99.19	28.09
82	Se	43.56	P	11.67	26.79
95	Mo	33.33	P	10.00	30.00
109	Ag	61.11	P	19.53	31.96
111	Cd	207.10	P	10.32	4.98
115	In	1177741.00	A	13970.00	1.19
121	Sb	543.33	P	54.87	10.10
137	Ba	61.11	P	22.19	36.31
205	Tl	302.22	P	32.72	10.83
208	Pb	233.33	P	30.00	12.86
209	Bi	480797.69	P	2340.00	0.49

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2810a.B\004CALI.D\004CALI.D#
Date Acquired:	Mar 28 2006 10:35 am
Operator:	
Sample Name:	CS1,S2889
Misc Info:	
Vial Number:	1102
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 28 2006 10:31 am
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	923932.00	A	9525.00	1.03
9 Be	383.33	P	26.67	6.96
23 Na	247703.30	P	704.20	0.28
26 Mg	19741.11	P	400.60	2.03
27 Al	7232.22	P	72.44	1.00
39 K	1605925.00	A	10210.00	0.64
44 Ca	12853.62	P	230.00	1.79
45 Sc	896102.69	A	12750.00	1.42
51 V	3826.16	P	163.20	4.27
52 Cr	8261.11	P	208.50	2.52
55 Mn	5068.89	P	100.60	1.98
57 Fe	17162.22	P	64.75	0.38
59 Co	2398.89	P	76.18	3.18
60 Ni	696.67	P	87.43	12.55
65 Cu	884.36	P	38.49	4.35
66 Zn	1111.01	P	46.23	4.16
72 Ge	200292.00	P	437.00	0.22
75 As	413.11	P	157.50	38.13
82 Se	56.22	P	14.55	25.88
95 Mo	466.67	P	63.86	13.68
109 Ag	1116.67	P	71.72	6.42
111 Cd	417.13	P	31.25	7.49
115 In	1166961.00	A	9477.00	0.81
121 Sb	1275.56	P	15.03	1.18
137 Ba	326.67	P	21.86	6.69
205 Tl	1236.67	P	20.00	1.62
208 Pb	1632.22	P	39.06	2.39
209 Bi	484940.00	P	10120.00	2.09

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	923932.06	1.03	887561.63	104.1	80 - 120	

45	Sc	896102.69	1.42	918517.88	97.6	80 -	120
72	Ge	200292.00	0.22	198458.44	100.9	80 -	120
115	In	1166961.30	0.81	1177741.30	99.1	80 -	120
209	Bi	484939.97	2.09	480797.75	100.9	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2810a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2810a.B\005CALI.D\005CALI.D#
Date Acquired: Mar 28 2006 10:41 am
Operator:
Sample Name: CS2,S2890
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 28 2006 10:37 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	910234.38	A	7716.00	0.85
9 Be	792.22	P	16.44	2.08
23 Na	457104.41	P	2305.00	0.50
26 Mg	38251.11	P	646.60	1.69
27 Al	9778.89	P	48.57	0.50
39 K	1811941.00	A	13870.00	0.77
44 Ca	18475.34	P	493.30	2.67
45 Sc	934396.13	A	16710.00	1.79
51 V	6496.88	P	640.20	9.85
52 Cr	10275.56	P	49.48	0.48
55 Mn	7836.67	P	171.50	2.19
57 Fe	22826.67	P	148.40	0.65
59 Co	4848.89	P	201.20	4.15
60 Ni	1254.44	P	130.90	10.44
65 Cu	1516.50	P	33.33	2.20
66 Zn	1725.36	P	70.66	4.10
72 Ge	201994.70	P	616.10	0.31
75 As	781.00	P	52.25	6.69
82 Se	79.33	P	24.58	30.98
95 Mo	932.22	P	38.49	4.13
109 Ag	2226.67	P	45.83	2.06
111 Cd	616.02	P	47.25	7.67
115 In	1181892.00	A	12770.00	1.08
121 Sb	2113.33	P	80.21	3.80
137 Ba	667.78	P	6.94	1.04
205 Tl	2074.44	P	115.60	5.57
208 Pb	3167.78	P	219.50	6.93
209 Bi	489527.69	P	9885.00	2.02

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	910234.44	0.85	887561.63	102.6	80 - 120	

45	Sc	934396.13	1.79	918517.88	101.7	80 -	120
72	Ge	201994.67	0.31	198458.44	101.8	80 -	120
115	In	1181891.80	1.08	1177741.30	100.4	80 -	120
209	Bi	489527.75	2.02	480797.75	101.8	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2810a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2810a.B\006CALI.D\006CALI.D#
Date Acquired: Mar 28 2006 10:46 am
Operator:
Sample Name: CS3,S2891
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 28 2006 10:42 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	880296.63	A	26920.00	3.06
9 Be	1435.56	P	155.10	10.80
23 Na	928211.88	A	8405.00	0.91
26 Mg	75057.78	P	1370.00	1.83
27 Al	12188.89	P	276.90	2.27
39 K	2188702.00	A	18760.00	0.86
44 Ca	27582.29	P	146.80	0.53
45 Sc	890815.50	A	11230.00	1.26
51 V	10416.79	P	64.05	0.61
52 Cr	13646.67	P	369.90	2.71
55 Mn	12830.00	P	233.30	1.82
57 Fe	32710.00	P	260.80	0.80
59 Co	8941.11	P	381.70	4.27
60 Ni	2173.33	P	66.58	3.06
65 Cu	2474.11	P	167.30	6.76
66 Zn	1979.63	P	92.07	4.65
72 Ge	197044.70	P	897.80	0.46
75 As	1224.42	P	98.91	8.08
82 Se	110.44	P	9.98	9.04
95 Mo	1826.67	P	105.80	5.79
109 Ag	4325.56	P	61.58	1.42
111 Cd	1070.15	P	13.16	1.23
115 In	1150053.00	A	1343.00	0.12
121 Sb	3518.89	P	73.43	2.09
137 Ba	1225.56	P	40.32	3.29
205 Tl	4011.11	P	45.01	1.12
208 Pb	5905.56	P	24.57	0.42
209 Bi	475954.41	P	4002.00	0.84

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	880296.63	3.06	887561.63	99.2	80 - 120	

45	Sc	890815.50	1.26	918517.88	97.0	80 -	120
72	Ge	197044.67	0.46	198458.44	99.3	80 -	120
115	In	1150053.10	0.12	1177741.30	97.6	80 -	120
209	Bi	475954.41	0.84	480797.75	99.0	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2810a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2810a.B\007CALI.D\007CALI.D#
Date Acquired: Mar 28 2006 10:52 am
Operator:
Sample Name: CS4,S2892
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 28 2006 10:48 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	899074.00	A	7150.00	0.80
9 Be	14491.11	P	389.50	2.69
23 Na	8552892.00	A	102800.00	1.20
26 Mg	812188.19	A	14540.00	1.79
27 Al	67330.00	P	674.10	1.00
39 K	8788533.00	A	121300.00	1.38
44 Ca	202505.09	P	2646.00	1.31
45 Sc	895504.69	A	5371.00	0.60
51 V	87978.68	P	1299.00	1.48
52 Cr	82617.78	P	1403.00	1.70
55 Mn	104872.20	P	815.10	0.78
57 Fe	221575.50	P	1419.00	0.64
59 Co	89975.55	P	1029.00	1.14
60 Ni	20035.55	P	121.50	0.61
65 Cu	22242.18	P	625.50	2.81
66 Zn	12328.16	P	101.70	0.82
72 Ge	199348.70	P	1459.00	0.73
75 As	10011.97	P	180.50	1.80
82 Se	733.11	P	26.80	3.66
95 Mo	18142.22	P	130.40	0.72
109 Ag	42190.00	P	585.90	1.39
111 Cd	8647.62	P	142.50	1.65
115 In	1141402.00	A	3951.00	0.35
121 Sb	32050.00	P	591.80	1.85
137 Ba	11884.44	P	408.40	3.44
205 Tl	40178.89	P	1254.00	3.12
208 Pb	59295.55	P	906.10	1.53
209 Bi	482288.91	P	15620.00	3.24

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	899074.00	0.80	887561.63	101.3	80 - 120	

45	Sc	895504.75	0.60	918517.88	97.5	80 -	120
72	Ge	199348.67	0.73	198458.44	100.4	80 -	120
115	In	1141402.10	0.35	1177741.30	96.9	80 -	120
209	Bi	482288.88	3.24	480797.75	100.3	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2810a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2810a.B\008CALI.D\008CALI.D#
Date Acquired: Mar 28 2006 10:57 am
Operator:
Sample Name: CS5,S2886
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 28 2006 10:53 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	830365.31	A	32110.00	3.87
9 Be	134607.80	P	5721.00	4.25
23 Na	76179536.00	A	1564000.00	2.05
26 Mg	7126125.00	A	119400.00	1.68
27 Al	572678.88	P	11600.00	2.03
39 K	73168872.00	A	566400.00	0.77
44 Ca	2019975.00	A	30960.00	1.53
45 Sc	876497.19	A	14820.00	1.69
51 V	897108.13	A	20670.00	2.30
52 Cr	741474.38	P	11850.00	1.60
55 Mn	1027185.00	A	20220.00	1.97
57 Fe	2141607.00	A	24820.00	1.16
59 Co	896114.19	A	10620.00	1.19
60 Ni	185862.20	P	1629.00	0.88
65 Cu	206928.09	P	3507.00	1.69
66 Zn	106827.70	P	647.10	0.61
72 Ge	196260.70	P	2351.00	1.20
75 As	96269.16	P	400.70	0.42
82 Se	6840.00	P	193.70	2.83
95 Mo	178621.09	P	1557.00	0.87
109 Ag	405120.00	P	6494.00	1.60
111 Cd	82092.83	P	1440.00	1.75
115 In	1074218.00	A	7693.00	0.72
121 Sb	306305.50	P	3561.00	1.16
137 Ba	111713.30	P	1490.00	1.33
205 Tl	375441.09	P	10670.00	2.84
208 Pb	567627.69	P	10310.00	1.82
209 Bi	454041.09	P	4800.00	1.06

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	830365.25	3.87	887561.63	93.6	80 - 120	

45	Sc	876497.13	1.69	918517.88	95.4	80 -	120
72	Ge	196260.67	1.20	198458.44	98.9	80 -	120
115	In	1074217.80	0.72	1177741.30	91.2	80 -	120
209	Bi	454041.06	1.06	480797.75	94.4	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2810a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2810a.B\009CALI.D\009CALI.D#
Date Acquired: Mar 28 2006 11:03 am
Operator:
Sample Name: CS6,S2887
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 28 2006 10:59 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	820445.31	A	6696.00	0.82
9	Be	272652.19	P	3784.00	1.39
23	Na	152717700.00	A	608200.00	0.40
26	Mg	13969320.00	A	215500.00	1.54
27	Al	1181083.00	A	28080.00	2.38
39	K	142354000.00	A	2242000.00	1.57
44	Ca	3906849.00	A	35300.00	0.90
45	Sc	893441.81	A	13850.00	1.55
51	V	1823251.00	A	34710.00	1.90
52	Cr	1553109.00	A	3552.00	0.23
55	Mn	2039690.00	A	37880.00	1.86
57	Fe	4186807.00	A	58240.00	1.39
59	Co	1791019.00	A	33980.00	1.90
60	Ni	371973.31	P	5927.00	1.59
65	Cu	412792.91	P	2339.00	0.57
66	Zn	210571.30	P	2457.00	1.17
72	Ge	200591.59	P	2222.00	1.11
75	As	197050.50	P	2576.00	1.31
82	Se	13604.67	P	222.10	1.63
95	Mo	359786.69	P	3034.00	0.84
109	Ag	805974.38	P	5222.00	0.65
111	Cd	162233.20	P	336.10	0.21
115	In	1076490.00	A	30750.00	2.86
121	Sb	603712.19	P	8307.00	1.38
137	Ba	224878.91	P	1166.00	0.52
205	Tl	744798.88	P	19400.00	2.60
208	Pb	1064283.00	P	17840.00	1.68
209	Bi	444504.41	P	4154.00	0.93

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6	Li	820445.25	0.82	887561.63	92.4	80 -	120	

45	Sc	893441.81	1.55	918517.88	97.3	80 -	120
72	Ge	200591.56	1.11	198458.44	101.1	80 -	120
115	In	1076490.00	2.86	1177741.30	91.4	80 -	120
209	Bi	444504.41	0.93	480797.75	92.5	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2810a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05
Seqnum : 56125898010 File : c2810010
Cal : 56125898001 Caldate: 28-MAR-2006
Standards: S2895, 05WS0207

IDF : 1.0
Time : 28-MAR-2006 11:08

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	0.5529	0.3200	100.0	96.71	ug/L	-3	10	
Antimony	0.1623	0.1431	100.0	101.6	ug/L	2	10	
Arsenic	0.2879	0.2509	100.0	102.1	ug/L	2	10	
Barium	0.0537	0.0520	100.0	99.63	ug/L	0	10	
Beryllium	0.0827	0.0827	100.0	100.0	ug/L	0	10	
Cadmium	0.2702	0.2137	100.0	104.9	ug/L	5	10	
Calcium	0.0138	0.0114	10000	10320	ug/L	3	10	
Chromium	2.8896	1.9271	100.0	99.70	ug/L	0	10	
Cobalt	2.3062	2.3266	100.0	103.7	ug/L	4	10	
Copper	0.5957	0.5334	100.0	103.1	ug/L	3	10	
Iron	0.0717	0.0548	10000	10380	ug/L	4	10	
Lead	0.6299	0.6500	100.0	107.6	ug/L	8	10	
Magnesium	0.0416	0.0401	10000	10180	ug/L	2	10	
Manganese	3.3310	2.6427	100.0	103.3	ug/L	3	10	
Molybdenum	0.4567	0.4610	100.0	102.5	ug/L	3	10	
Nickel	0.5513	0.4809	100.0	103.2	ug/L	3	10	
Potassium	0.8949	0.4150	10000	10240	ug/L	2	10	
Selenium	0.0240	0.0176	100.0	102.8	ug/L	3	10	
Silver	1.0683	1.0436	100.0	103.3	ug/L	3	10	
Sodium	0.4700	0.4342	10000	10120	ug/L	1	10	
Thallium	0.4188	0.4188	100.0	100.2	ug/L	0	10	
Vanadium	2.5250	2.3291	100.0	102.3	ug/L	2	10	
Zinc	0.4401	0.2764	100.0	104.2	ug/L	4	10	

ISTD (ICALBLK c2810003)	ICALBLK Abund	Abund	%Drift
Lithium	887562	829678	-6.52
Scandium	918518	910168	-0.91
Germanium	198458	199770	0.66
Indium	1177741	1103268	-6.32
Bismuth	480798	460761	-4.17

56125898010

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56125898025 File : c2810025
Cal : 56125898001 Caldate: 28-MAR-2006
Standards: S2897, 05WS0207

IDF : 1.0
Time : 28-MAR-2006 12:35

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.5529	0.2876	150.0	130.6	ug/L	**-13**	10	c- ***
Antimony	0.1623	0.1288	150.0	137.2	ug/L	-9	10	
Arsenic	0.2879	0.2420	150.0	147.8	ug/L	-1	10	
Barium	0.0537	0.0495	150.0	142.1	ug/L	-5	10	
Beryllium	0.0827	0.0816	150.0	148.0	ug/L	-1	10	
Cadmium	0.2702	0.2245	150.0	165.4	ug/L	10	10	
Calcium	0.0138	0.0112	15000	15240	ug/L	2	10	
Chromium	2.8896	1.9974	150.0	155.5	ug/L	4	10	
Cobalt	2.3062	2.1670	150.0	144.9	ug/L	-3	10	
Copper	0.5957	0.4800	150.0	139.2	ug/L	-7	10	
Iron	0.0717	0.0529	15000	15070	ug/L	0	10	
Lead	0.6299	0.6122	150.0	152.0	ug/L	1	10	
Magnesium	0.0416	0.0344	15000	13110	ug/L	**-13**	10	c- ***
Manganese	3.3310	2.6230	150.0	153.9	ug/L	3	10	
Molybdenum	0.4567	0.4689	150.0	156.4	ug/L	4	10	
Nickel	0.5513	0.4467	150.0	143.9	ug/L	-4	10	
Potassium	0.8949	0.3939	15000	14660	ug/L	-2	10	
Selenium	0.0240	0.0175	150.0	153.9	ug/L	3	10	
Silver	1.0683	1.0733	150.0	159.4	ug/L	6	10	
Sodium	0.4700	0.3829	15000	13390	ug/L	**-11**	10	c- ***
Thallium	0.4188	0.4081	150.0	146.5	ug/L	-2	10	
Vanadium	2.5250	2.3953	150.0	157.9	ug/L	5	10	
Zinc	0.4401	0.2563	150.0	145.3	ug/L	-3	10	

ISTD (ICALBLK c2810003)	ICALBLK Abund	Abund	%Drift
Lithium	887562	757823	-14.62
Scandium	918518	883525	-3.81
Germanium	198458	182757	-7.91
Indium	1177741	1092378	-7.25
Bismuth	480798	412406	-14.22

=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56125898040 File : c2810040
Cal : 56125898001 Caldate: 28-MAR-2006
Standards: S2897, 05WS0207

IDF : 1.0
Time : 28-MAR-2006 14:05

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.5529	0.3208	150.0	145.8	ug/L	-3	10	
Antimony	0.1623	0.1322	150.0	140.9	ug/L	-6	10	
Arsenic	0.2879	0.2413	150.0	147.4	ug/L	-2	10	
Barium	0.0537	0.0485	150.0	139.4	ug/L	-7	10	
Beryllium	0.0827	0.0810	150.0	147.0	ug/L	-2	10	
Cadmium	0.2702	0.2125	150.0	156.5	ug/L	4	10	
Calcium	0.0138	0.0111	15000	15030	ug/L	0	10	
Chromium	2.8896	1.9856	150.0	154.5	ug/L	3	10	
Cobalt	2.3062	2.1377	150.0	143.0	ug/L	-5	10	
Copper	0.5957	0.4959	150.0	143.8	ug/L	-4	10	
Iron	0.0717	0.0523	15000	14890	ug/L	-1	10	
Lead	0.6299	0.6070	150.0	150.7	ug/L	0	10	
Magnesium	0.0416	0.0353	15000	13440	ug/L	-10	10	
Manganese	3.3310	2.5939	150.0	152.1	ug/L	1	10	
Molybdenum	0.4567	0.4695	150.0	156.6	ug/L	4	10	
Nickel	0.5513	0.4369	150.0	140.7	ug/L	-6	10	
Potassium	0.8949	0.3970	15000	14780	ug/L	-1	10	
Selenium	0.0240	0.0176	150.0	155.0	ug/L	3	10	
Silver	1.0683	1.0427	150.0	154.8	ug/L	3	10	
Sodium	0.4700	0.3827	15000	13380	ug/L	**-11**	10	c- ***
Thallium	0.4188	0.4076	150.0	146.3	ug/L	-2	10	
Vanadium	2.5250	2.4020	150.0	158.4	ug/L	6	10	
Zinc	0.4401	0.2627	150.0	148.9	ug/L	-1	10	

ISTD (ICALBLK c2810003)	ICALBLK Abund	Abund	%Drift
Lithium	887562	757422	-14.66
Scandium	918518	900998	-1.91
Germanium	198458	187411	-5.57
Indium	1177741	1085755	-7.81
Bismuth	480798	412074	-14.29

-=low bias c=CCV

56125898040

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56125898054 File : c2810054
Cal : 56125898001 Caldate: 28-MAR-2006
Standards: S2897, 05WS0207

IDF : 1.0
Time : 28-MAR-2006 15:23

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.5529	0.3053	150.0	138.7	ug/L	-8	10	
Antimony	0.1623	0.1331	150.0	141.8	ug/L	-5	10	
Arsenic	0.2879	0.2394	150.0	146.2	ug/L	-3	10	
Barium	0.0537	0.0471	150.0	135.3	ug/L	-10	10	
Beryllium	0.0827	0.0794	150.0	144.0	ug/L	-4	10	
Cadmium	0.2702	0.2089	150.0	153.9	ug/L	3	10	
Calcium	0.0138	0.0106	15000	14430	ug/L	-4	10	
Chromium	2.8896	1.9816	150.0	154.2	ug/L	3	10	
Cobalt	2.3062	2.1280	150.0	142.3	ug/L	-5	10	
Copper	0.5957	0.4836	150.0	140.2	ug/L	-7	10	
Iron	0.0717	0.0522	15000	14870	ug/L	-1	10	
Lead	0.6299	0.5805	150.0	144.2	ug/L	-4	10	
Magnesium	0.0416	0.0334	15000	12720	ug/L	**-15**	10	c- ***
Manganese	3.3310	2.5703	150.0	150.8	ug/L	1	10	
Molybdenum	0.4567	0.4614	150.0	153.9	ug/L	3	10	
Nickel	0.5513	0.4319	150.0	139.1	ug/L	-7	10	
Potassium	0.8949	0.3873	15000	14420	ug/L	-4	10	
Selenium	0.0240	0.0166	150.0	145.9	ug/L	-3	10	
Silver	1.0683	1.0284	150.0	152.7	ug/L	2	10	
Sodium	0.4700	0.3706	15000	12960	ug/L	**-14**	10	c- ***
Thallium	0.4188	0.3863	150.0	138.7	ug/L	-8	10	
Vanadium	2.5250	2.3899	150.0	157.6	ug/L	5	10	
Zinc	0.4401	0.2562	150.0	145.2	ug/L	-3	10	

ISTD (ICALBLK c2810003)	ICALBLK Abund	Abund	%Drift
Lithium	887562	672981	-24.18
Scandium	918518	834534	-9.14
Germanium	198458	169540	-14.57
Indium	1177741	978830	-16.89
Bismuth	480798	378238	-21.33

-=low bias c=CCV

56125898054

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56125898062 File : c2810062 Time : 28-MAR-2006 16:08
Cal : 56125898001 Caldate: 28-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.5529	0.3255	150.0	147.9	ug/L	-1	10	
Antimony	0.1623	0.1330	150.0	141.7	ug/L	-6	10	
Arsenic	0.2879	0.2412	150.0	147.3	ug/L	-2	10	
Barium	0.0537	0.0506	150.0	145.4	ug/L	-3	10	
Beryllium	0.0827	0.0849	150.0	154.1	ug/L	3	10	
Cadmium	0.2702	0.2175	150.0	160.2	ug/L	7	10	
Calcium	0.0138	0.0111	15000	15040	ug/L	0	10	
Chromium	2.8896	2.0365	150.0	158.5	ug/L	6	10	
Cobalt	2.3062	2.1785	150.0	145.7	ug/L	-3	10	
Copper	0.5957	0.4777	150.0	138.5	ug/L	-8	10	
Iron	0.0717	0.0532	15000	15160	ug/L	1	10	
Lead	0.6299	0.5562	150.0	138.1	ug/L	-8	10	
Magnesium	0.0416	0.0343	15000	13060	ug/L	**-13**	10	c- ***
Manganese	3.3310	2.6050	150.0	152.8	ug/L	2	10	
Molybdenum	0.4567	0.4939	150.0	164.7	ug/L	10	10	
Nickel	0.5513	0.4271	150.0	137.6	ug/L	-8	10	
Potassium	0.8949	0.3975	15000	14800	ug/L	-1	10	
Selenium	0.0240	0.0164	150.0	143.9	ug/L	-4	10	
Silver	1.0683	1.0514	150.0	156.1	ug/L	4	10	
Sodium	0.4700	0.3507	15000	12260	ug/L	**-18**	10	c- ***
Thallium	0.4188	0.3769	150.0	135.3	ug/L	-10	10	
Vanadium	2.5250	2.4809	150.0	163.6	ug/L	9	10	
Zinc	0.4401	0.2503	150.0	141.8	ug/L	-5	10	

ISTD (ICALBLK c2810003)	ICALBLK Abund	Abund	%Drift
Lithium	887562	408311	-54.00
Scandium	918518	516552	-43.76
Germanium	198458	106091	-46.54
Indium	1177741	647366	-45.03
Bismuth	480798	274439	-42.92

-=low bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56125898011 File : c2810011 Time : 28-MAR-2006 11:18
Cal : 56125898001 Caldate: 28-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.2214]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.009876]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01487]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.01441]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1129]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2810003)	ICALBLK Abund	Abund	%Drift
Lithium	887562	844466	-4.86
Scandium	918518	892567	-2.83
Germanium	198458	193103	-2.70
Indium	1177741	1130932	-3.97
Bismuth	480798	441462	-8.18

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56125898027 File : c2810027 Time : 28-MAR-2006 12:51
Cal : 56125898001 Caldate: 28-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1002]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.01003]	0.2500	0.009674	ug/L	!ib
Cadmium	[0.08517]	0.2500	0.04566	ug/L	!ib
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01910]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2810003)	ICALBLK Abund	Abund	%Drift
Lithium	887562	748589	-15.66
Scandium	918518	889665	-3.14
Germanium	198458	175828	-11.40
Indium	1177741	1096948	-6.86
Bismuth	480798	412247	-14.26

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56125898042 File : c2810042
Cal : 56125898001 Caldate: 28-MAR-2006

IDF : 1.0
Time : 28-MAR-2006 14:16

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1517]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	[0.07683]	0.2500	0.04566	ug/L	!ib
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.009137]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2810003)	ICALBLK Abund	Abund	%Drift
Lithium	887562	783999	-11.67
Scandium	918518	886350	-3.50
Germanium	198458	185632	-6.46
Indium	1177741	1121385	-4.79
Bismuth	480798	422751	-12.07

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56125898056 File : c2810056 Time : 28-MAR-2006 15:34
Cal : 56125898001 Caldate: 28-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1440]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.01511]	0.2500	0.009674	ug/L	!ib
Cadmium	[0.08995]	0.2500	0.04566	ug/L	!ib
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	[0.1355]	1.000	0.08283	ug/L	!ib
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2810003)	ICALBLK Abund	Abund	%Drift
Lithium	887562	559398	-36.97
Scandium	918518	693018	-24.55
Germanium	198458	138250	-30.34
Indium	1177741	828413	-29.66
Bismuth	480798	331746	-31.00

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56125898063 File : c2810063 Time : 28-MAR-2006 16:13
Cal : 56125898001 Caldate: 28-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	0.4285	0.2500	0.03394	ug/L	ib ***
Arsenic	[0.1313]	0.5000	0.09029	ug/L	!ib
Barium	[0.02537]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.03747]	0.2500	0.009674	ug/L	!ib
Cadmium	[0.07637]	0.2500	0.04566	ug/L	!ib
Calcium	[12.51]	50.00	7.739	ug/L	!ib
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	[7.518]	50.00	6.980	ug/L	!ib
Lead	[0.03923]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.06299]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	0.9272	0.5000	0.1891	ug/L	ib ***
Silver	[0.01717]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2007]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2810003)	ICALBLK Abund	Abund	%Drift
Lithium	887562	378887	-57.31
Scandium	918518	497189	-45.87
Germanium	198458	96849	-51.20
Indium	1177741	625030	-46.93
Bismuth	480798	275337	-42.73

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05
Seqnum : 56125898012 File : c2810012
Cal : 56125898001 Caldate: 28-MAR-2006
Standards: S2893, 05WS0207

IDF : 1.0
Time : 28-MAR-2006 11:24

Interferent	Quant	RL	Units	Flags
Antimony	2.618	0.2500	ug/L	
Arsenic	1.550	0.5000	ug/L	
Barium	0.8828	0.2500	ug/L	
Beryllium	[0.006328]	0.2500	ug/L	
Cadmium	[0.1129]	0.2500	ug/L	
Chromium	1.595	0.5000	ug/L	
Cobalt	2.644	0.2500	ug/L	
Copper	1.961	0.5000	ug/L	
Lead	1.206	0.2500	ug/L	
Manganese	0.9457	0.2500	ug/L	
Nickel	1.490	0.2500	ug/L	
Selenium	0.7086	0.5000	ug/L	
Silver	[0.1647]	0.2500	ug/L	
Thallium	[0.1052]	0.5000	ug/L	
Vanadium	[0.3021]	1.000	ug/L	
Zinc	3.721	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	81270	ug/L	81
Calcium	300000	302000	ug/L	101
Iron	250000	250700	ug/L	100
Magnesium	100000	85700	ug/L	86
Molybdenum	2000	2194	ug/L	110
Potassium	100000	97180	ug/L	97
Sodium	250000	205600	ug/L	82

ISTD (ICALBLK c2810003)	ICALBLK Abund	Abund	%Drift
Lithium	887562	634411	-28.52
Scandium	918518	802998	-12.58
Germanium	198458	165707	-16.50
Indium	1177741	895237	-23.99
Bismuth	480798	343509	-28.55

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05
Seqnum : 56125898013 File : c2810013
Cal : 56125898001 Caldate: 28-MAR-2006
Standards: S2894, 05WS0207

IDF : 1.0
Time : 28-MAR-2006 11:29

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	73890	ug/L	-26		
Arsenic	100.0	110.7	ug/L	11	20	
Cadmium	100.0	105.7	ug/L	6	20	
Calcium	300000	301600	ug/L	1		
Chromium	200.0	214.7	ug/L	7	20	
Cobalt	200.0	192.5	ug/L	-4	20	
Copper	200.0	178.1	ug/L	-11	20	
Iron	250000	250900	ug/L	0		
Magnesium	100000	76810	ug/L	-23		
Manganese	200.0	219.7	ug/L	10	20	
Molybdenum	2000	2347	ug/L	17		
Nickel	200.0	180.6	ug/L	-10	20	
Potassium	100000	91660	ug/L	-8		
Selenium	100.0	106.2	ug/L	6	20	
Silver	50.00	50.87	ug/L	2	20	
Sodium	250000	186400	ug/L	-25		
Vanadium	200.0	218.4	ug/L	9	20	
Zinc	100.0	98.40	ug/L	-2	20	

ISTD (ICALBLK c2810003)	ICALBLK Abund	Abund	%Drift
Scandium	918518	677638	-26.22
Germanium	198458	131970	-33.50

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05
Seqnum : 56125898064 File : c2810064
Cal : 56125898001 Caldate: 28-MAR-2006
Standards: S2893, 05WS0207

IDF : 1.0
Time : 28-MAR-2006 16:19

Interferent	Quant	RL	Units	Flags
Antimony	2.711	0.2500	ug/L	
Arsenic	1.386	0.5000	ug/L	
Barium	0.9767	0.2500	ug/L	
Beryllium	[0.04611]	0.2500	ug/L	
Cadmium	[0.04420]	0.2500	ug/L	
Chromium	1.675	0.5000	ug/L	
Cobalt	2.466	0.2500	ug/L	
Copper	1.794	0.5000	ug/L	
Lead	1.156	0.2500	ug/L	
Manganese	0.9021	0.2500	ug/L	
Nickel	1.399	0.2500	ug/L	
Selenium	1.804	0.5000	ug/L	
Silver	[0.1624]	0.2500	ug/L	
Thallium	[0.07887]	0.5000	ug/L	
Vanadium	[0.4533]	1.000	ug/L	
Zinc	3.085	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	75200	ug/L	75
Calcium	300000	302200	ug/L	101
Iron	250000	230200	ug/L	92
Magnesium	100000	77990	ug/L	78
Molybdenum	2000	2304	ug/L	115
Potassium	100000	94240	ug/L	94
Sodium	250000	190100	ug/L	76

ISTD (ICALBLK c2810003)	ICALBLK Abund	Abund	%Drift
Lithium	887562	272851	-69.26
Scandium	918518	390869	-57.45
Germanium	198458	78989	-60.20
Indium	1177741	451451	-61.67
Bismuth	480798	207247	-56.90

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05
Seqnum : 56125898065 File : c2810065
Cal : 56125898001 Caldate: 28-MAR-2006
Standards: S2894, 05WS0207

IDF : 1.0
Time : 28-MAR-2006 16:24

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	74210	ug/L	-26		
Arsenic	100.0	115.1	ug/L	15	20	
Cadmium	100.0	105.8	ug/L	6	20	
Calcium	300000	305100	ug/L	2		
Chromium	200.0	212.7	ug/L	6	20	
Cobalt	200.0	189.2	ug/L	-5	20	
Copper	200.0	178.0	ug/L	-11	20	
Iron	250000	236600	ug/L	-5		
Magnesium	100000	78850	ug/L	-21		
Manganese	200.0	200.8	ug/L	0	20	
Molybdenum	2000	2392	ug/L	20		
Nickel	200.0	177.3	ug/L	-11	20	
Potassium	100000	91210	ug/L	-9		
Selenium	100.0	106.1	ug/L	6	20	
Silver	50.00	52.52	ug/L	5	20	
Sodium	250000	192700	ug/L	-23		
Vanadium	200.0	226.7	ug/L	13	20	
Zinc	100.0	98.90	ug/L	-1	20	

ISTD (ICALBLK c2810003)	ICALBLK Abund	Abund	%Drift
Scandium	918518	403667	-56.05
Germanium	198458	80710	-59.33

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56125898 Instrument: MET05 Agilent ICP-MS Begun: 28-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	c2810001	TUN				28-MAR-2006 10:18	1.0	1.0			1	
003	c2810003	ICALBLK	std-blk			28-MAR-2006 10:30	1.0	1.0			2	
004	c2810004	ICAL	CS1			28-MAR-2006 10:35	1.0	1.0			3	
005	c2810005	ICAL	CS2			28-MAR-2006 10:41	1.0	1.0			4	
006	c2810006	ICAL	CS3			28-MAR-2006 10:46	1.0	1.0			5	
007	c2810007	ICAL	CS4			28-MAR-2006 10:52	1.0	1.0			6	
008	c2810008	ICAL	CS5			28-MAR-2006 10:57	1.0	1.0			7	
009	c2810009	ICAL	CS6			28-MAR-2006 11:03	1.0	1.0			8	
010	c2810010	ICV				28-MAR-2006 11:08	1.0	1.0		1	9 2	
011	c2810011	ICB				28-MAR-2006 11:18	1.0	1.0		1	2	
012	c2810012	ICSA				28-MAR-2006 11:24	1.0	1.0		1	10 2	7:CA=302000
013	c2810013	ICSAB				28-MAR-2006 11:29	1.0	1.0		1	11 2	10:CA=301600
015	c2810015	SAMPLE	185558-011	111421	Filtra	28-MAR-2006 11:40	1.0	1.0	5	1	2	4:NA=108100
016	c2810016	SAMPLE	185558-012	111421	Filtra	28-MAR-2006 11:46	1.0	1.0	5	1	2	4:MG=69050.0
017	c2810017	SAMPLE	185558-013	111421	Filtra	28-MAR-2006 11:51	1.0	1.0	4	1	2	3:MG=76000.0
018	c2810018	SAMPLE	185558-014	111421	Filtra	28-MAR-2006 11:57	1.0	1.0	5	1	2	4:MG=119700
019	c2810019	SAMPLE	185558-015	111421	Filtra	28-MAR-2006 12:02	1.0	1.0	4	1	2	2:NA=41070.0
020	c2810020	SAMPLE	185558-016	111421	Filtra	28-MAR-2006 12:08	1.0	1.0	5	1	2	4:MG=47560.0
021	c2810021	SAMPLE	185558-017	111421	Filtra	28-MAR-2006 12:13	1.0	1.0	4	1	2	2:NA=99770.0
022	c2810022	SAMPLE	185558-018	111421	Filtra	28-MAR-2006 12:19	1.0	1.0	4	1	2	3:NA=115500
025	c2810025	CCV				28-MAR-2006 12:35	1.0	1.0	3	1	12 2	
027	c2810027	CCB				28-MAR-2006 12:51	1.0	1.0		1	2	
028	c2810028	SAMPLE	185558-019	111421	Filtra	28-MAR-2006 12:56	1.0	1.0	6	1	2	5:CA=88710.0
029	c2810029	SAMPLE	185558-020	111421	Filtra	28-MAR-2006 13:04	1.0	1.0	5	1	2	4:CA=82300.0
030	c2810030	SAMPLE	185558-022	111421	Filtra	28-MAR-2006 13:10	1.0	1.0	7	1	2	7:CA=118000
031	c2810031	SAMPLE	185558-026	111421	Filtra	28-MAR-2006 13:15	1.0	1.0	4	1	2	3:NA=47880.0
032	c2810032	SAMPLE	185558-027	111421	Filtra	28-MAR-2006 13:21	1.0	1.0	3	1	2	1:NA=219200
034	c2810034	BLANK	QC332485	111547	Filtra	28-MAR-2006 13:32	1.0	1.0	3	1	2	
035	c2810035	BS	QC332486	111547	Filtra	28-MAR-2006 13:38	1.0	1.0	3	1	2	
036	c2810036	BSD	QC332487	111547	Filtra	28-MAR-2006 13:43	1.0	1.0	3	1	2	
037	c2810037	MSS	185414-001	111547	Filtra	28-MAR-2006 13:48	1.0	1.0	3	1	2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897

Analyst: _____ Date: _____

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56125898 Instrument: MET05 Agilent ICP-MS Begun: 28-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
038	c2810038	SER	QC332490	111547	Filtra	28-MAR-2006 13:54	5.0	1.0	1		1	2	
040	c2810040	CCV				28-MAR-2006 14:05	1.0	1.0	1		1	12 2	
042	c2810042	CCB				28-MAR-2006 14:16	1.0	1.0			1	2	
043	c2810043	MS	QC332488	111547	Filtra	28-MAR-2006 14:22	1.0	1.0	1		1	2	2:CA=27040.0
044	c2810044	MSD	QC332489	111547	Filtra	28-MAR-2006 14:27	1.0	1.0	1		1	2	2:CA=26850.0
045	c2810045	SAMPLE	185414-002	111547	Filtra	28-MAR-2006 14:33	1.0	1.0			1	2	1:NA=25990.0
046	c2810046	SAMPLE	185414-003	111547	Filtra	28-MAR-2006 14:39	1.0	1.0			1	2	1:NA=32300.0
047	c2810047	SAMPLE	185414-004	111547	Filtra	28-MAR-2006 14:44	1.0	1.0			1	2	1:CA=30630.0
048	c2810048	SAMPLE	185414-005	111547	Filtra	28-MAR-2006 14:50	1.0	1.0			1	2	4:CA=37640.0
049	c2810049	SAMPLE	185414-006	111547	Filtra	28-MAR-2006 14:55	1.0	1.0			1	2	1:NA=35070.0
050	c2810050	SAMPLE	185414-007	111547	Filtra	28-MAR-2006 15:01	1.0	1.0			1	2	2:CA=39130.0
051	c2810051	SAMPLE	185414-008	111547	Filtra	28-MAR-2006 15:06	1.0	1.0			1	2	
052	c2810052	SAMPLE	185414-009	111547	Filtra	28-MAR-2006 15:12	1.0	1.0	1		1	2	6:CA=87680.0
054	c2810054	CCV				28-MAR-2006 15:23	1.0	1.0	2		1	12 2	
056	c2810056	CCB				28-MAR-2006 15:34	1.0	1.0			1	2	
057	c2810057	SAMPLE	185414-010	111547	Filtra	28-MAR-2006 15:40	1.0	1.0			1	2	4:CA=39010.0
058	c2810058	SAMPLE	185414-011	111547	Filtra	28-MAR-2006 15:45	1.0	1.0			1	2	3:FE=45040.0
059	c2810059	SAMPLE	185414-012	111547	Filtra	28-MAR-2006 15:51	1.0	1.0	1		1	2	1:NA=27400.0
060	c2810060	SAMPLE	185414-013	111547	Filtra	28-MAR-2006 15:56	1.0	1.0	1		1	2	1:NA=22490.0
061	c2810061	SAMPLE	185414-009	111547	Filtra	28-MAR-2006 16:02	5.0	1.0			1	2	1:MN=894.200
062	c2810062	CCV				28-MAR-2006 16:08	1.0	1.0	2		1	12 2	
063	c2810063	CCB				28-MAR-2006 16:13	1.0	1.0	2		1	2	
064	c2810064	ICSA				28-MAR-2006 16:19	1.0					10 2	
065	c2810065	ICSAB				28-MAR-2006 16:24	1.0					11 2	
066	c2810066	SAMPLE	185414-013	111547	Filtra	28-MAR-2006 16:30	1.0					2	
067	c2810067	CCV				28-MAR-2006 16:35	1.0					12 2	

637

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897

Analyst: _____ Date: _____

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

REVISED
Cw 4/25/06

Inst : MET05
Calnum : 56126520001
Units : ug/L

Date : 28-MAR-2006 20:51
X Axis : R

Reviewer: ---
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	c2820004	56126520004	CS1	28-MAR-2006 20:57	S2889
L2	c2820005	56126520005	CS2	28-MAR-2006 21:02	S2890
L3	c2820006	56126520006	CS3	28-MAR-2006 21:08	S2891
L4	c2820007	56126520007	CS4	28-MAR-2006 21:13	S2892
L5	c2820008	56126520008	CS5	28-MAR-2006 21:19	S2886
L6	c2820009	56126520009	CS6	28-MAR-2006 21:24	S2887

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		1.5067	0.8513	0.3664	0.3062	0.3208	BLNK	-2.6688	3.19658		0.6703	0.999	0.995	
Antimony	0.2231	0.1713	0.1406	0.1301	0.1278	0.1246	BLNK	-0.2024	7.99599		0.1529	1.000	0.995	
Arsenic		0.3260	0.2426	0.2389	0.2439	0.2391	BLNK	-0.0176	4.16589		0.2581	1.000	0.995	
Barium	0.0739	0.0587	0.0554	0.0509	0.0520	0.0515	BLNK	-0.1082	19.4069		0.0571	1.000	0.995	
Beryllium	0.1202	0.0994	0.0956	0.0877	0.0909	0.0891	BLNK	-0.0853	11.1889		0.0972	1.000	0.995	
Cadmium	0.3914	0.3115	0.2295	0.1879	0.1767	0.1697	BLNK	-0.3212	5.85375		0.2444	1.000	0.995	
Calcium		0.0188	0.0145	0.0108	0.0109	0.0105	BLNK	-42.332	94.4039		0.0131	1.000	0.995	
Chromium		5.3307	3.7142	2.2297	2.1675	2.1122	BLNK	-0.7870	0.47322		3.1109	1.000	0.995	
Cobalt	2.4788	2.4066	2.3554	2.2796	2.3639	2.2784	BLNK	-0.0281	0.43572		2.3604	1.000	0.995	
Copper		0.7468	0.6515	0.5787	0.5504	0.5329	BLNK	-0.2171	1.86661		0.6121	1.000	0.995	
Iron		0.1115	0.0815	0.0552	0.0557	0.0528	BLNK	-55.178	18.8100		0.0713	0.999	0.995	
Lead	0.7390	0.6603	0.6199	0.5953	0.6537	0.5972	BLNK	-0.0579	1.64401		0.6442	0.998	0.995	
Magnesium		0.0363	0.0358	0.0398	0.0370	0.0368	BLNK	-2.3600	27.1582		0.0371	1.000	0.995	
Manganese	4.9387	3.8926	3.2261	2.6507	2.7399	2.6332	BLNK	-0.2161	0.37722		3.3469	1.000	0.995	
Molybdenum		0.4990	0.4410	0.4147	0.4168	0.4075	BLNK	-0.0978	2.44420		0.4358	1.000	0.995	
Nickel	0.8075	0.6232	0.5800	0.5118	0.4958	0.4805	BLNK	-0.1547	2.06973		0.5831	1.000	0.995	
Potassium		1.4345	0.9047	0.4240	0.3763	0.3677	BLNK	-143.43	2.72990		0.7015	1.000	0.995	
Selenium		0.0449	0.0269	0.0173	0.0168	0.0161	BLNK	-0.6742	61.8462		0.0244	1.000	0.995	
Silver	1.0065	0.9613	0.9464	0.9261	0.9163	0.8739	BLNK	-0.0338	1.13337		0.9384	0.999	0.995	
Sodium		0.4049	0.4245	0.4032	0.3859	0.3794	BLNK	-8.5059	2.62763		0.3996	1.000	0.995	
Thallium		0.4801	0.4470	0.4237	0.4354	0.4332	BLNK	-0.0858	2.30733		0.4439	1.000	0.995	
Vanadium		3.8145	3.1004	2.4287	2.6086	2.5155	BLNK	-0.2759	0.39532		2.8935	1.000	0.995	
Zinc		0.7198	0.5074	0.2967	0.2605	0.2500	BLNK	-0.9909	3.98956		0.4069	1.000	0.995	

6376

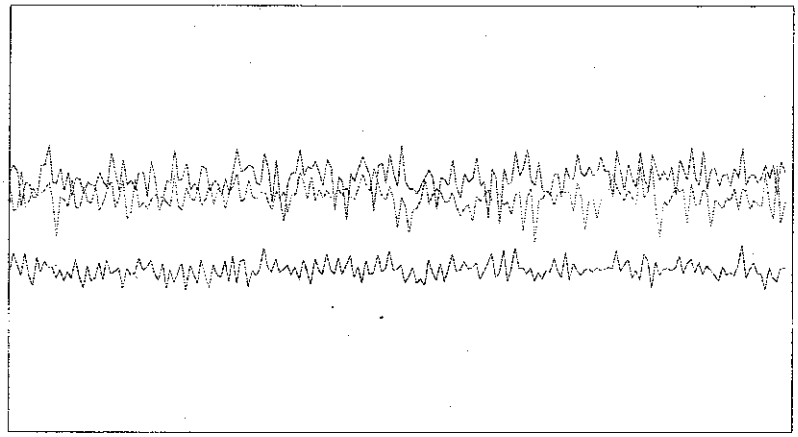
BLNK=Y=aX+[blank]

Instrument amount = a0 + response * a1 + response^2 * a2

56126520001

Tune Report

Tune File : ATUNE.U



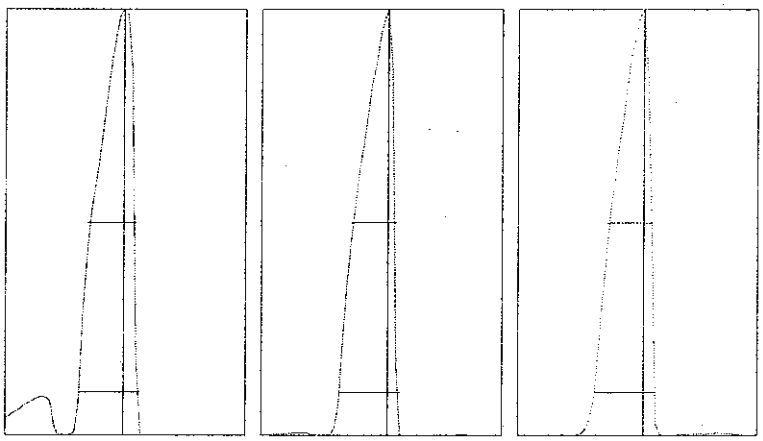
m/z:	7	89	205
Range:	50,000	50,000	20,000
Count:	19,274	30,421	10,772
Mean:	19032.8	29860.5	10977.4
RSD%:	5.63	5.85	5.58
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.38%
Doubly Charged:	70/140	1.59%

Background:

m/z:	7	89	205
Cps:	188.0	81.2	61.1



m/z:	7	89	205
Height:	19,193	31,361	11,460
Axis:	7.00	89.10	205.10
W-50%:	0.60	0.55	0.55
W-10%:	0.7500	0.7500	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1080 W	Extract 1:	-156.2 V	AMU Gain:	129
RF Matching:	1.62 V	Extract 2:	-66 V	AMU Offset:	126
Smpl Depth:	6.5 mm	Einzel 1,3:	-112 V	Axis Gain:	0.9998
Torch-H:	0 mm	Einzel 2:	-4 V	Axis Offset:	-0.09
Torch-V:	0.4 mm	Omega Bias:	-66 V	QP Bias:	1.5 V
Carrier Gas:	1.27 L/min	Omega (+):	5 V		
Makeup Gas:	0 L/min	Omega (-):	-3.7 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	6.2 V	Discriminator:	8.7 mV
PeriPump1:	0.1 rps	Plate Bias:	-10.5 V	Analog HV:	1750 V
PeriPump2:	--- rps			Pulse HV:	1220 V
S/C Temp:	2 degC				

637b

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CW 4/25/06

Generated : Mar 28, 2006 17:22:22
Printed : Mar 28, 2006 17:22:28

P/A Factor Tuning Report

Acquired:Mar 28 2006 05:40 pm

Mass[amu]	Element	P/A Factor
6	Li	0.073422
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.097637
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.102668
45	Sc	0.099143
51	V	0.102348
52	Cr	0.104261
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.106243
57	Fe	0.108714
59	Co	0.108540
60	Ni	Sensitivity too low
63	Cu	0.109970
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.107724
95	Mo	Sensitivity too low
98	Mo	0.106048
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.112645
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	0.113721
118	(In)	0.116754
121	Sb	0.111105
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.116988
166	Er	Sensitivity too low

637c

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```
205        Tl    0.119791
206      (Pb)  Sensitivity too low
207      (Pb)  Sensitivity too low
208        Pb    0.117902
209        Bi    0.117842

===Detector Parameters===
  Discriminator: 8.7 mV
      Analog HV: 1750 V
       Pulse HV: 1220 V
```


637d

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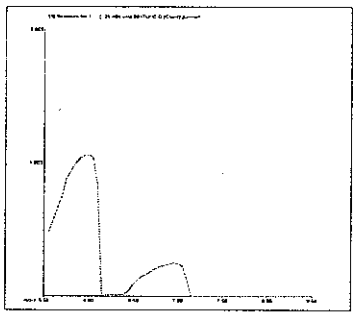
CW 4/25/06

6020 QC Tune Report

Data File:	C:\ICPCHEM\1\DATA\06C2820a.B\001TUNE.D
Date Acquired:	Mar 28 2006 08:40 pm
Acq. Method:	TN6020.M
Operator:	
Sample Name:	TUN,S2898
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

Element	Actual	Required	Flag
7 Li	1.35	5.00	
59 Co	0.85	5.00	
115 In	2.10	5.00	
205 Tl	2.23	5.00	



7 Li

Mass Calib.

Actual: 6.95

Required: 6.90 - 7.10

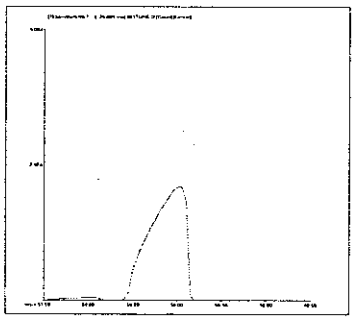
Flag:

Peak Width

Actual: 0.55

Required: 0.90

Flag:



59 Co

Mass Calib.

Actual: 59.05

Required: 58.90 - 59.10

Flag:

Peak Width

Actual: 0.55

Required: 0.90

Flag:

637e

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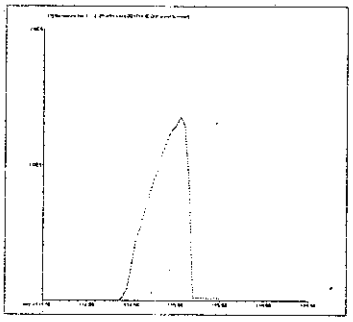
Cw 4/25/06



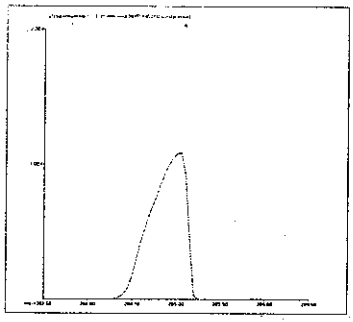
115 In

Mass Calib.

Actual:	115.05	
Required:	114.90 -	115.10
Flag:		

Peak Width

Actual:	0.60
Required:	0.90
Flag:	



205 Tl

Mass Calib.

Actual:	205.05	
Required:	204.90 -	205.10
Flag:		

Peak Width

Actual:	0.60
Required:	0.90
Flag:	

637f

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CW 4/25/06

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2820a.B\002BLNK.D\002BLNK.D#
Date Acquired:	Mar 28 2006 08:46 pm
Acq. Method:	60200111.M
Operator:	
Sample Name:	RINSE
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update:	Mar 28 2006 08:17 pm
Sample Type:	6-Blank
Dilution Factor:	1.00

QC Elements

Element	Corr. Conc.	RSD(%)	Raw Conc.	High Limit	Flag
9 Be	-0.01493 ppb	38.13	-0.01493	1.00	
23 Na	-3.029 ppb	1.82	-3.029	1.00	
26 Mg	-0.4152 ppb	11.47	-0.4152	1.00	
27 Al	-0.1622 ppb	17.07	-0.1622	1.00	
39 K	-0.7858 ppb	537.80	-0.7858	1.00	
44 Ca	-14.58 ppb	6.30	-14.58	1.00	
51 V	0.04684 ppb	47.63	0.04684	1.00	
52 Cr	-0.04791 ppb	19.80	-0.04791	1.00	
55 Mn	-0.01656 ppb	82.85	-0.01656	1.00	
57 Fe	-1.513 ppb	6.91	-1.513	1.00	
59 Co	-0.000918 ppb	295.64	-0.000918	1.00	
60 Ni	-0.1242 ppb	26.45	-0.1242	1.00	
65 Cu	-0.0004855 ppb	4671.50	-0.000485	1.00	
66 Zn	-0.04446 ppb	148.45	-0.04446	1.00	
75 As	0.09061 ppb	34.60	0.09061	1.00	
82 Se	-0.1518 ppb	117.39	-0.1518	1.00	
95 Mo	-0.07227 ppb	16.63	-0.07227	1.00	
109 Ag	-0.002334 ppb	122.15	-0.002334	1.00	
111 Cd	0.03171 ppb	173.95	0.03171	1.00	
121 Sb	0.01848 ppb	78.68	0.01848	1.00	
137 Ba	0.006035 ppb	70.29	0.006035	1.00	
205 Tl	0.06861 ppb	45.65	0.06861	1.00	
208 Pb	-0.002861 ppb	103.43	-0.002861	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1013410.50	0.91	---	#VALUE!	80 - 120	
45 Sc	1125727.50	1.54	---	#VALUE!	80 - 120	
72 Ge	204428.00	0.79	---	#VALUE!	80 - 120	
115 In	1044758.10	1.00	---	#VALUE!	80 - 120	
209 Bi	552656.63	2.84	---	#VALUE!	80 - 120	

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ISTD Ref File : ---

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Pass
ISTD: Pass

637h

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CW 4/25/06

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2820a.B\003CAL
Date Acquired:	Mar 28 2006 08:51 pm
Operator:	
Sample Name:	std-blk
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 28 2006 08:17 pm
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	1014580.00	A	16730.00	1.65
9	Be	154.44	P	16.44	10.65
23	Na	70757.78	P	1366.00	1.93
26	Mg	1898.89	P	122.20	6.44
27	Al	18247.78	P	566.80	3.11
39	K	1148557.00	A	22950.00	2.00
44	Ca	9800.70	P	259.40	2.65
45	Sc	1093033.00	A	9692.00	0.89
51	V	2812.77	P	156.30	5.56
52	Cr	6703.33	P	162.20	2.42
55	Mn	2308.89	P	79.19	3.43
57	Fe	11824.44	P	107.50	0.91
59	Co	260.00	P	55.48	21.34
60	Ni	301.11	P	18.95	6.29
65	Cu	468.88	P	13.47	2.87
66	Zn	1001.10	P	126.20	12.61
72	Ge	201561.09	P	1706.00	0.85
75	As	17.48	P	92.31	528.23
82	Se	44.00	P	25.10	57.05
95	Mo	161.11	P	25.46	15.80
109	Ag	120.00	P	35.28	29.40
111	Cd	221.39	P	39.96	18.05
115	In	1035660.00	A	9442.00	0.91
121	Sb	524.44	P	58.72	11.20
137	Ba	115.56	P	15.03	13.01
205	Tl	437.78	P	22.69	5.18
208	Pb	413.33	P	58.12	14.06
209	Bi	588317.69	P	13090.00	2.23

637i

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ew 4/25/06

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2820a.B\004CALI.D\004CALI.D#
Date Acquired:	Mar 28 2006 08:57 pm
Operator:	
Sample Name:	CS1,S2889
Misc Info:	
Vial Number:	1102
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 28 2006 08:53 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	997180.13	A	14180.00	1.42
9 Be	600.00	P	70.00	11.67
23 Na	268406.69	P	1552.00	0.58
26 Mg	21058.89	P	355.60	1.69
27 Al	18706.67	P	704.80	3.77
39 K	1368712.00	A	15110.00	1.10
44 Ca	15467.89	P	163.30	1.06
45 Sc	1091525.00	A	976.00	0.09
51 V	5011.27	P	602.60	12.03
52 Cr	8717.78	P	222.20	2.55
55 Mn	4987.78	P	155.60	3.12
57 Fe	16922.22	P	192.90	1.14
59 Co	2503.33	P	26.67	1.07
60 Ni	815.56	P	5.09	0.62
65 Cu	996.58	P	48.42	4.86
66 Zn	1343.23	P	64.89	4.83
72 Ge	201995.30	P	1286.00	0.64
75 As	350.46	P	85.63	24.43
82 Se	79.11	P	25.21	31.87
95 Mo	541.11	P	34.21	6.32
109 Ag	1016.67	P	34.80	3.42
111 Cd	395.06	P	83.91	21.24
115 In	1022109.00	A	3975.00	0.39
121 Sb	1140.00	P	33.83	2.97
137 Ba	377.78	P	16.44	4.35
205 Tl	1574.44	P	36.72	2.33
208 Pb	2092.22	P	195.40	9.34
209 Bi	565793.31	P	11350.00	2.01

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	997180.06	1.42	1014579.90	98.3	80 - 120	

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45	Sc	1091525.40	0.09	1093033.40	99.9	80 - 120
72	Ge	201995.33	0.64	201561.11	100.2	80 - 120
115	In	1022108.50	0.39	1035659.90	98.7	80 - 120
209	Bi	565793.31	2.01	588317.75	96.2	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2820a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

637K

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cw 4/25/06

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2820a.B\005CALI.D\005CALI.D#
Date Acquired:	Mar 28 2006 09:02 pm
Operator:	
Sample Name:	CS2,S2890
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 28 2006 08:58 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	983748.69	A	8425.00	0.86
9	Be	977.78	P	36.72	3.76
23	Na	449723.31	P	3544.00	0.79
26	Mg	40291.11	P	623.70	1.55
27	Al	16735.55	P	308.60	1.84
39	K	1593468.00	A	21340.00	1.34
44	Ca	20938.12	P	224.70	1.07
45	Sc	1110882.00	A	10030.00	0.90
51	V	7711.44	P	431.10	5.59
52	Cr	10777.78	P	194.30	1.80
55	Mn	7870.00	P	71.72	0.91
57	Fe	22548.89	P	155.90	0.69
59	Co	4865.56	P	78.13	1.61
60	Ni	1260.00	P	80.21	6.37
65	Cu	1509.82	P	30.55	2.02
66	Zn	1455.35	P	64.49	4.43
72	Ge	202181.09	P	713.60	0.35
75	As	659.08	P	123.70	18.77
82	Se	90.67	P	17.78	19.61
95	Mo	1008.89	P	55.01	5.45
109	Ag	1943.33	P	63.51	3.27
111	Cd	629.71	P	19.08	3.03
115	In	1030293.00	A	842.70	0.08
121	Sb	1764.44	P	78.62	4.46
137	Ba	604.44	P	36.57	6.05
205	Tl	2672.22	P	64.75	2.42
208	Pb	3675.55	P	1.93	0.05
209	Bi	556713.31	P	5823.00	1.05

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	983748.69	0.86	1014579.90	97.0	80 - 120	

637l

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45	Sc	1110881.90	0.90	1093033.40	101.6	80 - 120
72	Ge	202181.11	0.35	201561.11	100.3	80 - 120
115	In	1030293.40	0.08	1035659.90	99.5	80 - 120
209	Bi	556713.31	1.05	588317.75	94.6	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2820a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**
ISTD: **Pass**

637m

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CW 4/25/06

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2820a.B\006CALI.D\006CALI.D#
Date Acquired:	Mar 28 2006 09:08 pm
Operator:	
Sample Name:	CS3,S2891
Misc Info:	
Vial Number:	1104
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 28 2006 09:04 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	1008371.00	A	13080.00	1.30
9 Be	1927.78	P	41.68	2.16
23 Na	942061.31	A	6867.00	0.73
26 Mg	79455.55	P	509.20	0.64
27 Al	18891.11	P	98.90	0.52
39 K	2007354.00	A	10280.00	0.51
44 Ca	32149.10	P	407.00	1.27
45 Sc	1109517.00	A	9848.00	0.89
51 V	12494.97	P	163.60	1.31
52 Cr	14970.00	P	405.50	2.71
55 Mn	13002.22	P	36.72	0.28
57 Fe	32867.78	P	405.20	1.23
59 Co	9492.22	P	162.00	1.71
60 Ni	2337.78	P	177.30	7.58
65 Cu	2626.32	P	110.20	4.20
66 Zn	2045.16	P	162.30	7.94
72 Ge	201524.00	P	1407.00	0.70
75 As	977.42	P	85.07	8.70
82 Se	108.22	P	11.65	10.77
95 Mo	1777.78	P	78.20	4.40
109 Ag	3814.44	P	65.18	1.71
111 Cd	924.95	P	59.74	6.46
115 In	1028190.00	A	9583.00	0.93
121 Sb	2892.22	P	55.51	1.92
137 Ba	1140.00	P	3.33	0.29
205 Tl	5071.11	P	96.74	1.91
208 Pb	7030.00	P	207.60	2.95
209 Bi	567297.69	P	10570.00	1.86

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1008370.60	1.30	1014579.90	99.4	80 - 120	

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45	Sc	1109517.10	0.89	1093033.40	101.5	80 - 120
72	Ge	201524.00	0.70	201561.11	100.0	80 - 120
115	In	1028189.60	0.93	1035659.90	99.3	80 - 120
209	Bi	567297.75	1.86	588317.75	96.4	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2820a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**
ISTD: **Pass**

6370

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CW 4/25/06

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2820a.B\007CALI.D\007CALI.D#
Date Acquired: Mar 28 2006 09:13 pm
Operator:
Sample Name: CS4,S2892
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 28 2006 09:09 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	1004985.00	A	7471.00	0.74
9 Be	17630.00	P	184.80	1.05
23 Na	8767607.00	A	43740.00	0.50
26 Mg	865256.81	A	3880.00	0.45
27 Al	79671.11	P	198.50	0.25
39 K	9220598.00	A	45170.00	0.49
44 Ca	235225.20	P	2599.00	1.10
45 Sc	1087289.00	A	12260.00	1.13
51 V	98456.35	P	2020.00	2.05
52 Cr	90383.33	P	76.88	0.09
55 Mn	107452.20	P	521.40	0.49
57 Fe	223812.20	P	1818.00	0.81
59 Co	92404.44	P	220.00	0.24
60 Ni	20747.78	P	209.80	1.01
65 Cu	23457.57	P	59.99	0.26
66 Zn	12025.67	P	38.43	0.32
72 Ge	202686.91	P	1107.00	0.55
75 As	9684.89	P	147.20	1.52
82 Se	701.56	P	9.44	1.35
95 Mo	16808.89	P	293.50	1.75
109 Ag	37544.44	P	467.50	1.25
111 Cd	7616.61	P	67.15	0.88
115 In	1012999.00	A	5937.00	0.59
121 Sb	26365.55	P	193.50	0.73
137 Ba	10315.56	P	222.80	2.16
205 Tl	49442.22	P	1069.00	2.16
208 Pb	69454.44	P	490.10	0.71
209 Bi	583553.31	P	15310.00	2.62

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1004984.60	0.74	1014579.90	99.1	80 - 120	

637p

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45	Sc	1087288.60	1.13	1093033.40	99.5	80 - 120
72	Ge	202686.89	0.55	201561.11	100.6	80 - 120
115	In	1012999.00	0.59	1035659.90	97.8	80 - 120
209	Bi	583553.31	2.62	588317.75	99.2	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2820a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

6379

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CW 4/25/06

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2820a.B\008CALI.D\008CALI.D#
Date Acquired:	Mar 28 2006 09:19 pm
Operator:	
Sample Name:	CS5,S2886
Misc Info:	
Vial Number:	1106
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 28 2006 09:15 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	965815.63	A	16010.00	1.66
9	Be	175484.41	P	2483.00	1.41
23	Na	83920448.00	A	1528000.00	1.82
26	Mg	8040593.00	A	156700.00	1.95
27	Al	665768.88	P	11000.00	1.65
39	K	81827208.00	A	474900.00	0.58
44	Ca	2378510.00	A	7013.00	0.29
45	Sc	1087188.00	A	4096.00	0.38
51	V	1053310.00	A	10360.00	0.98
52	Cr	875218.50	M	15150.00	1.73
55	Mn	1106296.00	A	1787.00	0.16
57	Fe	2248061.00	A	6713.00	0.30
59	Co	954476.13	A	21070.00	2.21
60	Ni	200210.00	P	2011.00	1.00
65	Cu	222251.50	P	2678.00	1.20
66	Zn	105169.80	P	652.80	0.62
72	Ge	201888.41	P	364.00	0.18
75	As	98466.06	P	510.10	0.52
82	Se	6767.11	P	116.50	1.72
95	Mo	168292.20	P	1200.00	0.71
109	Ag	369990.00	P	2971.00	0.80
111	Cd	71350.65	P	428.30	0.60
115	In	975834.50	A	4396.00	0.45
121	Sb	249456.70	P	2621.00	1.05
137	Ba	101390.00	P	426.20	0.42
205	Tl	480066.59	P	12200.00	2.54
208	Pb	720698.88	P	5789.00	0.80
209	Bi	551330.00	P	10240.00	1.86

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	965815.56	1.66	1014579.90	95.2	80 - 120	

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45	Sc	1087187.50	0.38	1093033.40	99.5	80 - 120
72	Ge	201888.44	0.18	201561.11	100.2	80 - 120
115	In	975834.56	0.45	1035659.90	94.2	80 - 120
209	Bi	551330.00	1.86	588317.75	93.7	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2820a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

637s

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CW 4/25/06

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2820a.B\009CALI.D\009CALI.D#
Date Acquired: Mar 28 2006 09:24 pm
Operator:
Sample Name: CS6,S2887
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 28 2006 09:20 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	959935.50	A	13760.00	1.43
9	Be	341966.69	P	3692.00	1.08
23	Na	162869300.00	A	3244000.00	1.99
26	Mg	15787720.00	A	481900.00	3.05
27	Al	1377290.00	A	19060.00	1.38
39	K	157866000.00	A	1074000.00	0.68
44	Ca	4525214.00	A	57480.00	1.27
45	Sc	1073290.00	A	8166.00	0.76
51	V	2040642.00	A	7749.00	0.38
52	Cr	1713437.00	A	15830.00	0.92
55	Mn	2136153.00	A	22270.00	1.04
57	Fe	4279863.00	A	45770.00	1.07
59	Co	1848297.00	A	30070.00	1.63
60	Ni	389788.91	P	3285.00	0.84
65	Cu	432267.50	P	4228.00	0.98
66	Zn	202816.59	P	1350.00	0.67
72	Ge	202806.91	P	432.10	0.21
75	As	193985.41	P	1296.00	0.67
82	Se	13063.33	P	121.00	0.93
95	Mo	330585.50	P	679.00	0.21
109	Ag	708965.50	P	2892.00	0.41
111	Cd	137699.70	P	678.40	0.49
115	In	967713.63	A	11870.00	1.23
121	Sb	482086.59	P	3147.00	0.65
137	Ba	199200.00	P	1209.00	0.61
205	Tl	958679.69	M	15520.00	1.62
208	Pb	1321510.00	P	10930.00	0.83
209	Bi	553200.00	P	4425.00	0.80

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	959935.50	1.43	1014579.90	94.6	80 - 120	

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45	Sc	1073290.50	0.76	1093033.40	98.2	80 - 120
72	Ge	202806.89	0.21	201561.11	100.6	80 - 120
115	In	967713.63	1.23	1035659.90	93.4	80 - 120
209	Bi	553200.00	0.80	588317.75	94.0	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2820a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

637u

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CW 4/25/06

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56126520010 File : c2820010 Time : 28-MAR-2006 21:30
Cal : 56126520001 Caldate: 28-MAR-2006
Standards: S2895

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	0.6703	0.3177	100.0	98.88	ug/L	-1	10	
Antimony	0.1529	0.1262	100.0	100.7	ug/L	1	10	
Arsenic	0.2581	0.2382	100.0	99.22	ug/L	-1	10	
Barium	0.0571	0.0512	100.0	99.19	ug/L	-1	10	
Beryllium	0.0972	0.0893	100.0	99.84	ug/L	0	10	
Cadmium	0.2444	0.1716	100.0	100.1	ug/L	0	10	
Calcium	0.0131	0.0106	10000	9993	ug/L	0	10	
Chromium	3.1109	2.0578	100.0	96.59	ug/L	-3	10	
Cobalt	2.3604	2.2528	100.0	98.13	ug/L	-2	10	
Copper	0.6121	0.5416	100.0	100.9	ug/L	1	10	
Iron	0.0713	0.0545	10000	10200	ug/L	2	10	
Lead	0.6442	0.6480	100.0	106.5	ug/L	7	10	
Magnesium	0.0371	0.0384	10000	10440	ug/L	4	10	
Manganese	3.3469	2.6597	100.0	100.1	ug/L	0	10	
Molybdenum	0.4358	0.4050	100.0	98.88	ug/L	-1	10	
Nickel	0.5831	0.4860	100.0	100.4	ug/L	0	10	
Potassium	0.7015	0.3742	10000	10070	ug/L	1	10	
Selenium	0.0244	0.0166	100.0	101.7	ug/L	2	10	
Silver	0.9384	0.8855	100.0	100.3	ug/L	0	10	
Sodium	0.3996	0.4021	10000	10560	ug/L	6	10	
Thallium	0.4439	0.4244	100.0	97.83	ug/L	-2	10	
Vanadium	2.8935	2.5212	100.0	99.39	ug/L	-1	10	
Zinc	0.4069	0.2526	100.0	99.79	ug/L	0	10	

ISTD (ICALBLK c2820003)	ICALBLK Abund	Abund	%Drift
Lithium	1014580	977888	-3.62
Scandium	1093033	1062055	-2.83
Germanium	201561	201894	0.17
Indium	1035660	975635	-5.80
Bismuth	588318	581860	-1.10

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56126520010
CW 4/25/06

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56126520025 File : c2820025 IDF : 1.0
Cal : 56126520001 Caldate: 28-MAR-2006 Time : 28-MAR-2006 22:53
Standards: S2897

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.6703	0.3766	150.0	177.9	ug/L	**19**	10	c+ ***
Antimony	0.1529	0.1236	150.0	148.0	ug/L	-1	10	
Arsenic	0.2581	0.2336	150.0	146.0	ug/L	-3	10	
Barium	0.0571	0.0536	150.0	155.8	ug/L	4	10	
Beryllium	0.0972	0.0891	150.0	149.5	ug/L	0	10	
Cadmium	0.2444	0.1749	150.0	153.2	ug/L	2	10	
Calcium	0.0131	0.0105	15000	14800	ug/L	-1	10	
Chromium	3.1109	2.0084	150.0	141.8	ug/L	-5	10	
Cobalt	2.3604	2.2692	150.0	148.3	ug/L	-1	10	
Copper	0.6121	0.5224	150.0	146.1	ug/L	-3	10	
Iron	0.0713	0.0528	15000	14830	ug/L	-1	10	
Lead	0.6442	0.5911	150.0	145.7	ug/L	-3	10	
Magnesium	0.0371	0.0430	15000	17520	ug/L	**17**	10	c+ ***
Manganese	3.3469	2.5540	150.0	144.3	ug/L	-4	10	
Molybdenum	0.4358	0.4041	150.0	148.1	ug/L	-1	10	
Nickel	0.5831	0.4714	150.0	146.2	ug/L	-3	10	
Potassium	0.7015	0.3697	15000	15000	ug/L	0	10	
Selenium	0.0244	0.0175	150.0	161.5	ug/L	8	10	
Silver	0.9384	0.8901	150.0	151.3	ug/L	1	10	
Sodium	0.3996	0.4614	15000	18180	ug/L	**21**	10	c+ ***
Thallium	0.4439	0.4224	150.0	146.1	ug/L	-3	10	
Vanadium	2.8935	2.3844	150.0	141.1	ug/L	-6	10	
Zinc	0.4069	0.2459	150.0	146.2	ug/L	-3	10	

ISTD (ICALBLK c2820003)	ICALBLK Abund	Abund	%Drift
Lithium	1014580	911568	-10.15
Scandium	1093033	881694	-19.34
Germanium	201561	176132	-12.62
Indium	1035660	852945	-17.64
Bismuth	588318	603811	2.63

+=high bias c=CCV

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56126520025

cw 4/25/06

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56126520039 File : c2820039 Time : 29-MAR-2006 00:11
Cal : 56126520001 Caldate: 28-MAR-2006
Standards: S2897

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.6703	0.4098	150.0	193.8	ug/L	**29**	10	c+ ***
Antimony	0.1529	0.1228	150.0	147.1	ug/L	-2	10	
Arsenic	0.2581	0.2344	150.0	146.5	ug/L	-2	10	
Barium	0.0571	0.0536	150.0	156.0	ug/L	4	10	
Beryllium	0.0972	0.0899	150.0	150.7	ug/L	0	10	
Cadmium	0.2444	0.1800	150.0	157.7	ug/L	5	10	
Calcium	0.0131	0.0105	15000	14890	ug/L	-1	10	
Chromium	3.1109	1.9596	150.0	138.3	ug/L	-8	10	
Cobalt	2.3604	2.2527	150.0	147.2	ug/L	-2	10	
Copper	0.6121	0.5232	150.0	146.3	ug/L	-2	10	
Iron	0.0713	0.0518	15000	14550	ug/L	-3	10	
Lead	0.6442	0.5941	150.0	146.5	ug/L	-2	10	
Magnesium	0.0371	0.0471	15000	19170	ug/L	**28**	10	c+ ***
Manganese	3.3469	2.5037	150.0	141.5	ug/L	-6	10	
Molybdenum	0.4358	0.4123	150.0	151.1	ug/L	1	10	
Nickel	0.5831	0.4681	150.0	145.2	ug/L	-3	10	
Potassium	0.7015	0.3722	15000	15100	ug/L	1	10	
Selenium	0.0244	0.0179	150.0	165.4	ug/L	10	10	
Silver	0.9384	0.9154	150.0	155.6	ug/L	4	10	
Sodium	0.3996	0.5012	15000	19750	ug/L	**32**	10	c+ ***
Thallium	0.4439	0.4239	150.0	146.6	ug/L	-2	10	
Vanadium	2.8935	2.3003	150.0	136.1	ug/L	-9	10	
Zinc	0.4069	0.2453	150.0	145.8	ug/L	-3	10	

ISTD (ICALBLK c2820003)	ICALBLK Abund	Abund	%Drift
Lithium	1014580	879699	-13.29
Scandium	1093033	792825	-27.47
Germanium	201561	162025	-19.61
Indium	1035660	801486	-22.61
Bismuth	588318	586110	-0.38

+=high bias c=CCV

637x

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56126520039

cw 4/25/06

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56126520011 File : c2820011 Time : 28-MAR-2006 21:35
Cal : 56126520001 Caldate: 28-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	0.6439	0.2500	0.03394	ug/L	ib ***
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.01364]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01409]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.1787]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1001]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2820003)	ICALBLK Abund	Abund	%Drift
Lithium	1014580	989238	-2.50
Scandium	1093033	1036501	-5.17
Germanium	201561	193771	-3.86
Indium	1035660	974119	-5.94
Bismuth	588318	607138	3.20

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56126520011

CW 4/25/06

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56126520027 File : c2820027 Time : 28-MAR-2006 23:04
Cal : 56126520001 Caldate: 28-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1509]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1804]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.3378]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2820003)	ICALBLK Abund	Abund	%Drift
Lithium	1014580	930698	-8.27
Scandium	1093033	870439	-20.36
Germanium	201561	170920	-15.20
Indium	1035660	865222	-16.46
Bismuth	588318	611513	3.94

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CW 4/25/06

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56126520041 File : c2820041 Time : 29-MAR-2006 00:22
Cal : 56126520001 Caldate: 28-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1021]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.2731]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.1998]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2820003)	ICALBLK Abund	Abund	%Drift
Lithium	1014580	881612	-13.11
Scandium	1093033	777251	-28.89
Germanium	201561	157208	-22.00
Indium	1035660	814159	-21.39
Bismuth	588318	605474	2.92

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CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56126520012 File : c2820012 Time : 28-MAR-2006 21:41
Cal : 56126520001 Caldate: 28-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	3.074	0.2500	ug/L	
Arsenic	1.547	0.5000	ug/L	
Barium	0.9886	0.2500	ug/L	
Beryllium	[0.02321]	0.2500	ug/L	
Cadmium	[0.1464]	0.2500	ug/L	
Chromium	1.718	0.5000	ug/L	
Cobalt	2.660	0.2500	ug/L	
Copper	1.953	0.5000	ug/L	
Lead	1.249	0.2500	ug/L	
Manganese	0.9666	0.2500	ug/L	
Nickel	1.767	0.2500	ug/L	
Selenium	1.205	0.5000	ug/L	
Silver	0.3140	0.2500	ug/L	
Thallium	[0.06618]	0.5000	ug/L	
Vanadium	[0.2837]	1.000	ug/L	
Zinc	3.554	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	96690	ug/L	97
Calcium	300000	293700	ug/L	98
Iron	250000	236000	ug/L	94
Magnesium	100000	102300	ug/L	102
Molybdenum	2000	2021	ug/L	101
Potassium	100000	96020	ug/L	96
Sodium	250000	247400	ug/L	99

ISTD (ICALBLK c2820003)	ICALBLK Abund	Abund	%Drift
Lithium	1014580	865483	-14.70
Scandium	1093033	948417	-13.23
Germanium	201561	178165	-11.61
Indium	1035660	811918	-21.60
Bismuth	588318	499243	-15.14

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56126520012

CW 4/25/06

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56126520013 File : c2820013 Time : 28-MAR-2006 21:46
Cal : 56126520001 Caldate: 28-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	93970	ug/L	-6		
Arsenic	100.0	107.0	ug/L	7	20	
Cadmium	100.0	93.19	ug/L	-7	20	
Calcium	300000	290400	ug/L	-3		
Chromium	200.0	200.4	ug/L	0	20	
Cobalt	200.0	198.7	ug/L	-1	20	
Copper	200.0	187.3	ug/L	-6	20	
Iron	250000	234200	ug/L	-6		
Magnesium	100000	99030	ug/L	-1		
Manganese	200.0	199.4	ug/L	0	20	
Molybdenum	2000	2001	ug/L	0		
Nickel	200.0	190.6	ug/L	-5	20	
Potassium	100000	94590	ug/L	-5		
Selenium	100.0	97.97	ug/L	-2	20	
Silver	50.00	46.37	ug/L	-7	20	
Sodium	250000	241300	ug/L	-3		
Vanadium	200.0	204.6	ug/L	2	20	
Zinc	100.0	91.00	ug/L	-9	20	

ISTD (ICALBLK c2820003)	ICALBLK Abund	Abund	%Drift
Scandium	1093033	947575	-13.31
Germanium	201561	176420	-12.47

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56126520013

CW 4/25/06

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56126520043 File : c2820043 Time : 29-MAR-2006 00:33
Cal : 56126520001 Caldate: 28-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.434	0.2500	ug/L	
Arsenic	1.678	0.5000	ug/L	
Barium	0.9452	0.2500	ug/L	
Beryllium	[0]	0.2500	ug/L	
Cadmium	[0.1765]	0.2500	ug/L	
Chromium	1.590	0.5000	ug/L	
Cobalt	2.654	0.2500	ug/L	
Copper	1.968	0.5000	ug/L	
Lead	1.216	0.2500	ug/L	
Manganese	0.8829	0.2500	ug/L	
Nickel	1.939	0.2500	ug/L	
Selenium	1.120	0.5000	ug/L	
Silver	[0.1601]	0.2500	ug/L	
Thallium	[0.01611]	0.5000	ug/L	
Vanadium	[0.2374]	1.000	ug/L	
Zinc	3.225	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	125000	ug/L	125
Calcium	300000	305500	ug/L	102
Iron	250000	224000	ug/L	90
Magnesium	100000	133000	ug/L	133
Molybdenum	2000	2130	ug/L	107
Potassium	100000	104100	ug/L	104
Sodium	250000	330200	ug/L	132

ISTD (ICALBLK c2820003)	ICALBLK Abund	Abund	%Drift
Lithium	1014580	732111	-27.84
Scandium	1093033	642908	-41.18
Germanium	201561	139315	-30.88
Indium	1035660	669399	-35.36
Bismuth	588318	477737	-18.80

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56126520043
CW 4/25/06

637ad

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56126520044 File : c2820044 Time : 29-MAR-2006 00:38
Cal : 56126520001 Caldate: 28-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	122300	ug/L	22		
Arsenic	100.0	103.0	ug/L	3	20	
Cadmium	100.0	96.94	ug/L	-3	20	
Calcium	300000	302400	ug/L	1		
Chromium	200.0	184.0	ug/L	-8	20	
Cobalt	200.0	191.6	ug/L	-4	20	
Copper	200.0	178.4	ug/L	-11	20	
Iron	250000	221400	ug/L	-11		
Magnesium	100000	129300	ug/L	29		
Manganese	200.0	187.8	ug/L	-6	20	
Molybdenum	2000	2095	ug/L	5		
Nickel	200.0	181.9	ug/L	-9	20	
Potassium	100000	103100	ug/L	3		
Selenium	100.0	104.2	ug/L	4	20	
Silver	50.00	47.67	ug/L	-5	20	
Sodium	250000	323600	ug/L	29		
Vanadium	200.0	184.8	ug/L	-8	20	
Zinc	100.0	83.63	ug/L	-16	20	

ISTD (ICALBLK c2820003)	ICALBLK Abund	Abund	%Drift
Scandium	1093033	631740	-42.20
Germanium	201561	137375	-31.84

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56126520044

CW 4/25/06

637ae

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56126520 Instrument: MET05 Agilent ICP-MS Begun: 28-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

REVISED 9/25/06

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	c2820001	TUN				28-MAR-2006 20:40	1.0	1.0			1	
003	c2820003	ICALBLK	std-blk			28-MAR-2006 20:51	1.0	1.0			2	
004	c2820004	ICAL	CS1			28-MAR-2006 20:57	1.0	1.0			3	
005	c2820005	ICAL	CS2			28-MAR-2006 21:02	1.0	1.0			4	
006	c2820006	ICAL	CS3			28-MAR-2006 21:08	1.0	1.0			5	
007	c2820007	ICAL	CS4			28-MAR-2006 21:13	1.0	1.0			6	
008	c2820008	ICAL	CS5			28-MAR-2006 21:19	1.0	1.0			7	
009	c2820009	ICAL	CS6			28-MAR-2006 21:24	1.0	1.0			8	
010	c2820010	ICV				28-MAR-2006 21:30	1.0	1.0		1	9	
011	c2820011	ICB				28-MAR-2006 21:35	1.0	1.0	1	1	2	
012	c2820012	ICSA				28-MAR-2006 21:41	1.0	1.0		1	10 2 7:CA=293700	
013	c2820013	ICSAB				28-MAR-2006 21:46	1.0	1.0		1	11 2 9:CA=290400	
015	c2820015	SAMPLE	185683-001	111547	Water	28-MAR-2006 21:57	1.0	1.0		1	2 3:NA=80350.0	
016	c2820016	SAMPLE	185684-001	111547	Water	28-MAR-2006 22:03	1.0	1.0		1	2 1:AL=816.600	
017	c2820017	SAMPLE	185685-001	111547	Water	28-MAR-2006 22:08	1.0	1.0		1	2 2:NA=86620.0	
018	c2820018	SAMPLE	185686-001	111547	Water	28-MAR-2006 22:14	1.0	1.0		1	2 2:NA=67480.0	
019	c2820019	SAMPLE	185687-001	111547	Water	28-MAR-2006 22:19	1.0	1.0		1	2	
020	c2820020	SAMPLE	185688-001	111547	Water	28-MAR-2006 22:25	1.0	1.0		1	2 1:AL=2539.00	
022	c2820022	SAMPLE	185558-011	111421	Filtra	28-MAR-2006 22:36	20.0	1.0	2	1	2	
023	c2820023	SAMPLE	185558-012	111421	Filtra	28-MAR-2006 22:42	20.0	1.0	2	1	2	
025	c2820025	CCV				28-MAR-2006 22:53	1.0	1.0	3	1	12	
027	c2820027	CCB				28-MAR-2006 23:04	1.0	1.0		1	2	
028	c2820028	SAMPLE	185558-013	111421	Filtra	28-MAR-2006 23:09	20.0	1.0	2	1	2	
029	c2820029	SAMPLE	185558-014	111421	Filtra	28-MAR-2006 23:15	20.0	1.0	2	1	2	
030	c2820030	SAMPLE	185558-015	111421	Filtra	28-MAR-2006 23:21	20.0	1.0	2	1	2	
031	c2820031	SAMPLE	185558-016	111421	Filtra	28-MAR-2006 23:26	20.0	1.0	2	1	2	
032	c2820032	SAMPLE	185558-017	111421	Filtra	28-MAR-2006 23:32	20.0	1.0	2	1	2	
033	c2820033	SAMPLE	185558-018	111421	Filtra	28-MAR-2006 23:37	20.0	1.0	2	1	2	
034	c2820034	SAMPLE	185558-019	111421	Filtra	28-MAR-2006 23:43	20.0	1.0	2	1	2	
035	c2820035	SAMPLE	185558-020	111421	Filtra	28-MAR-2006 23:48	20.0	1.0	2	1	2	
036	c2820036	SAMPLE	185558-022	111421	Filtra	28-MAR-2006 23:54	20.0	1.0	2	1	2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897

Analyst: [illegible] Date: 3/28/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56126520 Instrument: MET05 Agilent ICP-MS Begun: 28-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

REVISED 03/15/06

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	
037	c2820037	SAMPLE	185558-026	111421	Filtra	29-MAR-2006 00:00	20.0	1.0	2		1	2	
039	c2820039	CCV				29-MAR-2006 00:11	1.0	1.0	3		1	12	
041	c2820041	CCB				29-MAR-2006 00:22	1.0	1.0			1	2	
042	c2820042	SAMPLE	185558-027	111421	Filtra	29-MAR-2006 00:27	20.0	1.0	2		1	2	1:NA=20850.0
043	c2820043	ICSA				29-MAR-2006 00:33	1.0	1.0			1	10 2	7:NA=330200
044	c2820044	ICSAB				29-MAR-2006 00:38	1.0	1.0			1	11 2	7:NA=323600
046	c2820046	SAMPLE	185586-023	111436	Filtra	29-MAR-2006 00:49	1.0	1.0	3		1	2	1:NA=22280.0
047	c2820047	SAMPLE	185586-024	111436	Filtra	29-MAR-2006 00:55	1.0	1.0	4		1	2	3:MG=82800.0
048	c2820048	SAMPLE	185586-025	111436	Filtra	29-MAR-2006 01:00	1.0	1.0	3		1	2	2:MG=71780.0
049	c2820049	SAMPLE	185586-026	111436	Filtra	29-MAR-2006 01:06	1.0	1.0	4		1	2	3:NA=83010.0
050	c2820050	SAMPLE	185586-001	111436	Filtra	29-MAR-2006 01:11	20.0	1.0	3		1	2	
051	c2820051	SAMPLE	185586-002	111436	Filtra	29-MAR-2006 01:17	20.0	1.0	3		1	2	
052	c2820052	SAMPLE	185586-003	111436	Filtra	29-MAR-2006 01:23	20.0	1.0	3		1	2	
054	c2820054	CCV				29-MAR-2006 01:34	1.0	1.0	6		1	12	3:NA=20740.0
056	c2820056	CCB				29-MAR-2006 01:45	1.0	1.0			1	2	
057	c2820057	SAMPLE	185586-018	111436	Filtra	29-MAR-2006 01:50	20.0	1.0	3		1	2	
058	c2820058	SAMPLE	185586-019	111436	Filtra	29-MAR-2006 01:56	20.0	1.0	3		1	2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897

Analyst: Melissa Date: 3/28/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56127407001
Units : ug/L

Date : 29-MAR-2006 11:39
X Axis : R

Reviewer: ---
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	c2911004	56127407004	CS1	29-MAR-2006 11:44	S2889
L2	c2911005	56127407005	CS2	29-MAR-2006 11:50	S2890
L3	c2911006	56127407006	CS3	29-MAR-2006 11:56	S2891
L4	c2911007	56127407007	CS4	29-MAR-2006 12:01	S2892
L5	c2911008	56127407008	CS5	29-MAR-2006 12:07	S2886
L6	c2911009	56127407009	CS6	29-MAR-2006 12:12	S2887

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		1.4639	0.8228	0.3462	0.2948	0.3307	BLNK	-5.7047	3.20005		0.6517	**0.993**	0.995	r2 ***
Antimony	0.2842	0.1758	0.1616	0.1386	0.1395	0.1294	BLNK	-0.2698	7.62104		0.1715	0.999	0.995	
Arsenic		0.2767	0.2718	0.2532	0.2541	0.2472	BLNK	-0.1191	4.02590		0.2606	1.000	0.995	
Barium	0.0913	0.0572	0.0565	0.0462	0.0480	0.0444	BLNK	-0.1958	22.1810		0.0573	0.999	0.995	
Beryllium	0.1228	0.1168	0.1037	0.0988	0.0985	0.0958	BLNK	-0.0875	10.3836		0.1061	1.000	0.995	
Cadmium	0.4041	0.2925	0.2112	0.1619	0.1515	0.1457	BLNK	-0.3892	6.82380		0.2278	1.000	0.995	
Calcium		0.0422	0.0253	0.0112	0.0101	0.0098	BLNK	-162.60	102.351		0.0197	1.000	0.995	
Chromium		5.6424	3.7576	2.3621	2.1577	2.2412	BLNK	-0.7858	0.45167		3.2322	1.000	0.995	638
Cobalt	2.5964	2.4665	2.3672	2.2560	2.2076	2.2759	BLNK	-0.0451	0.44217		2.3616	1.000	0.995	
Copper		0.8018	0.7023	0.5636	0.5341	0.5172	BLNK	-0.2683	1.92393		0.6238	1.000	0.995	
Iron		0.1281	0.0905	0.0563	0.0567	0.0535	BLNK	-80.236	18.5700		0.0770	0.999	0.995	
Lead	1.0863	0.8148	0.6666	0.5465	0.5932	0.5788	BLNK	-0.3179	1.72278		0.7144	1.000	0.995	
Magnesium		0.0365	0.0337	0.0397	0.0362	0.0372	BLNK	-5.3604	27.0349		0.0367	1.000	0.995	
Manganese	5.3711	4.1968	3.3228	2.7106	2.8631	2.7299	BLNK	-0.2458	0.36334		3.5324	0.999	0.995	
Molybdenum		0.4442	0.4136	0.3833	0.3808	0.3624	BLNK	-0.2010	2.73495		0.3969	0.999	0.995	
Nickel	1.0654	0.7664	0.6396	0.5108	0.4716	0.4627	BLNK	-0.2947	2.15634		0.6527	1.000	0.995	
Potassium		1.7771	1.0383	0.4304	0.3474	0.3622	BLNK	-184.01	2.81440		0.7911	0.999	0.995	
Selenium		0.0485	0.0260	0.0164	0.0142	0.0141	BLNK	-0.8657	70.9787		0.0238	1.000	0.995	
Silver	1.0311	0.8643	0.8059	0.8254	0.7786	0.7595	BLNK	-0.0579	1.31031		0.8442	1.000	0.995	
Sodium		0.4719	0.4656	0.3920	0.3695	0.3739	BLNK	-25.369	2.68489		0.4146	1.000	0.995	
Thallium		0.3798	0.4061	0.3849	0.4081	0.3898	BLNK	-0.1067	2.54353		0.3937	0.999	0.995	
Vanadium		3.9416	3.3324	2.6641	2.8239	2.7136	BLNK	-0.2443	0.36611		3.0951	1.000	0.995	
Zinc		0.9163	0.6153	0.3247	0.2702	0.2637	BLNK	-1.1174	3.79849		0.4780	1.000	0.995	

r2=ICAL r^2 failure

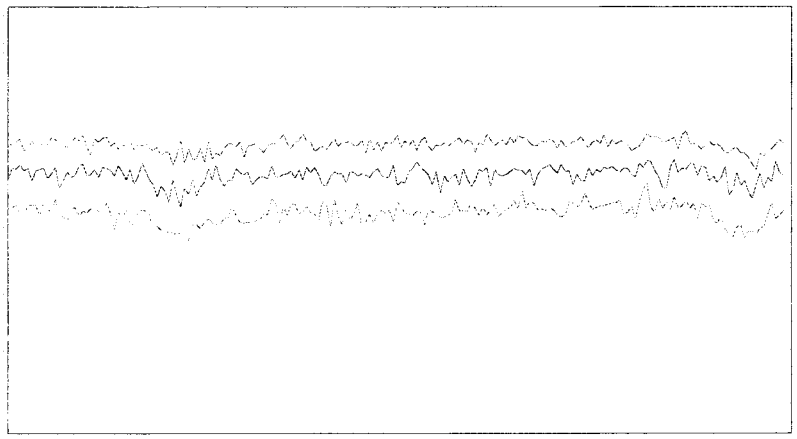
BLNK=Y=aX+[blank]

Instrument amount = a0 + response * a1 + response^2 * a2

56127407001

Tune Report

Tune File : ATUNE.U



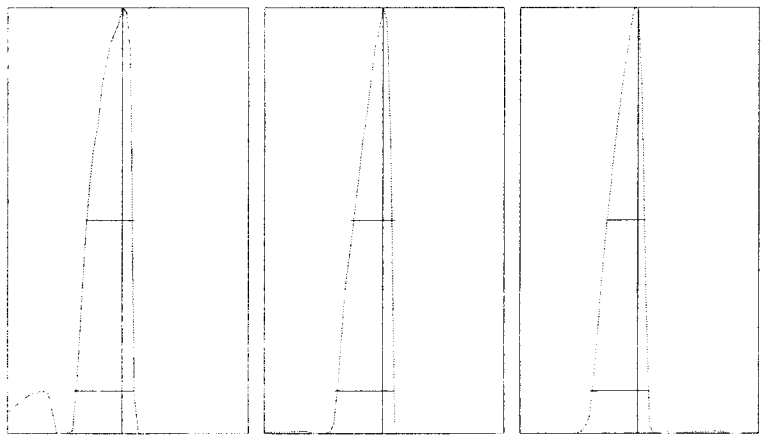
m/z:	7	89	205
Range:	50,000	50,000	20,000
Count:	30,151	33,915	10,419
Mean:	30213.8	33820.1	10292.1
RSD%:	3.30	2.21	4.54
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.39%
Doubly Charged:	70/140	2.35%

Background:

m/z:	7	89	205
Cps:	62.3	33.0	33.6



m/z:	7	89	205
Height:	31,303	33,682	10,664
Axis:	6.95	89.00	205.00
W-50%:	0.60	0.55	0.50
W-10%:	0.7500	0.7500	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1220 W	Extract 1:	-156.2 V	AMU Gain:	129
RF Matching:	1.62 V	Extract 2:	-66 V	AMU Offset:	126
Smpl Depth:	6.5 mm	Einzel 1,3:	-122 V	Axis Gain:	0.9998
Torch-H:	0 mm	Einzel 2:	-4 V	Axis Offset:	-0.13
Torch-V:	0.4 mm	Omega Bias:	-46 V	QP Bias:	1.5 V
Carrier Gas:	1.22 L/min	Omega (+):	5 V		
Makeup Gas:	0 L/min	Omega (-):	-3.7 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	5.2 V	Discriminator:	8.7 mV
PeriPump1:	0.1 rps	Plate Bias:	-12.5 V	Analog HV:	1750 V
PeriPump2:	--- rps			Pulse HV:	1220 V
S/C Temp:	2 degC				

Generated : Mar 29, 2006 10:03:20
Printed : Mar 29, 2006 10:03:27

P/A Factor Tuning Report

Acquired:Mar 29 2006 10:09 am

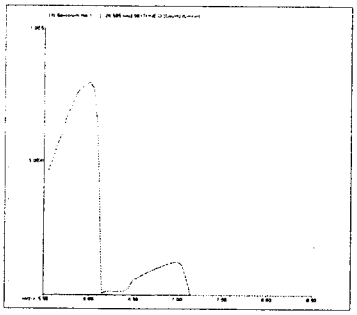
Mass[amu]	Element	P/A Factor
6	Li	0.075238
9	Be	0.081860
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.099467
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	Sensitivity too high
45	Sc	0.101043
51	V	0.104579
52	Cr	0.106196
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.108117
57	Fe	Sensitivity too high
59	Co	0.110220
60	Ni	Sensitivity too low
63	Cu	0.111260
65	Cu	0.108491
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.108896
95	Mo	Sensitivity too low
98	Mo	0.106349
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.113089
111	Cd	Sensitivity too low
114	Cd	0.110353
115	In	0.114073
118	(In)	0.117681
121	Sb	0.111223
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.116732
166	Er	Sensitivity too low

6020 QC Tune Report

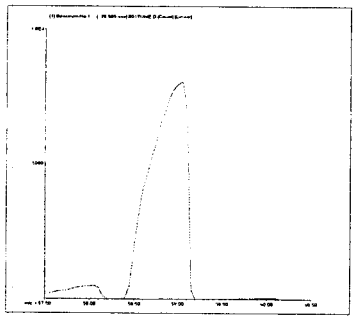
Data File: C:\ICPCHEM\1\DATA\06C2911a.B\001TUNE.D
Date Acquired: Mar 29 2006 11:27 am
Acq. Method: TN6020.M
Operator:
Sample Name: TUN,S2898
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

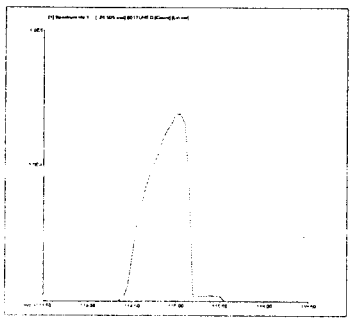
Element	Actual	Required	Flag
7 Li	4.96	5.00	
59 Co	2.25	5.00	
115 In	3.13	5.00	
205 Tl	3.11	5.00	



7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.55
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.55
Required: 0.90
Flag:



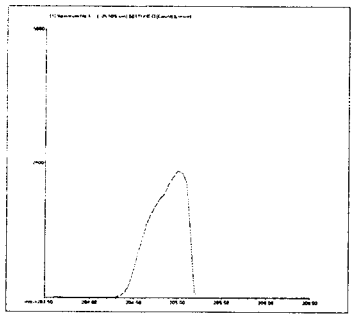
115 In

Mass Calib.

Actual:	115.05	
Required:	114.90 -	115.10
Flag:		

Peak Width

Actual:	0.60
Required:	0.90
Flag:	



205 Tl

Mass Calib.

Actual:	205.00	
Required:	204.90 -	205.10
Flag:		

Peak Width

Actual:	0.60
Required:	0.90
Flag:	

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06C2911a.B\002BLNK.D\002BLNK.D#
Date Acquired: Mar 29 2006 11:33 am
Acq. Method: 60200111.M
Operator:
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update: Mar 29 2006 11:04 am
Sample Type: 6-Blank
Dilution Factor: 1.00

QC Elements

Element	Corr. Conc.	RSD(%)	Raw Conc.	High Limit	Flag
9 Be	0.03356 ppb	25.41	0.03356	1.00	
23 Na	-21.01 ppb	16.21	-21.01	1.00	
26 Mg	1.07 ppb	69.69	1.07	1.00	
27 Al	0.4022 ppb	133.42	0.4022	1.00	
39 K	16.13 ppb	21.18	16.13	1.00	
44 Ca	75.76 ppb	4.87	75.76	1.00	
51 V	0.002348 ppb	3248.70	0.002348	1.00	
52 Cr	0.06282 ppb	14.45	0.06282	1.00	
55 Mn	0.0604 ppb	9.78	0.0604	1.00	
57 Fe	17.95 ppb	22.71	17.95	1.00	
59 Co	0.008127 ppb	52.81	0.008127	1.00	
60 Ni	0.05667 ppb	23.26	0.05667	1.00	
65 Cu	0.04044 ppb	8.12	0.04044	1.00	
66 Zn	0.2097 ppb	52.98	0.2097	1.00	
75 As	-0.04934 ppb	306.04	-0.04934	1.00	
82 Se	0.3369 ppb	124.58	0.3369	1.00	
95 Mo	0.1302 ppb	10.13	0.1302	1.00	
109 Ag	0.0004505 ppb	2770.30	0.0004505	1.00	
111 Cd	-0.02444 ppb	314.81	-0.02444	1.00	
121 Sb	0.09913 ppb	31.92	0.09913	1.00	
137 Ba	0.05417 ppb	44.71	0.05417	1.00	
205 Tl	0.03335 ppb	81.32	0.03335	1.00	
208 Pb	0.1404 ppb	5.16	0.1404	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	707150.63	3.63	---	#VALUE!	80 - 120	
45 Sc	752850.19	1.66	---	#VALUE!	80 - 120	
72 Ge	119549.34	2.58	---	#VALUE!	80 - 120	
115 In	514444.50	5.35	---	#VALUE!	80 - 120	
209 Bi	191387.77	8.21	---	#VALUE!	80 - 120	

ISTD Ref File : ---

4 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Fail
ISTD: Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06C2911a.B\003CAL
Date Acquired: Mar 29 2006 11:39 am
Operator:
Sample Name: std-blk
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 29 2006 11:04 am
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	673037.81	A	7303.00	1.09
9	Be	113.33	P	14.53	12.82
23	Na	141925.59	P	7697.00	5.42
26	Mg	2981.11	P	372.80	12.51
27	Al	26775.55	P	1387.00	5.18
39	K	981225.81	A	8667.00	0.88
44	Ca	23848.73	P	381.40	1.60
45	Sc	750674.38	A	15600.00	2.08
51	V	1562.23	P	152.20	9.74
52	Cr	4074.44	P	85.72	2.10
55	Mn	1584.44	P	71.91	4.54
57	Fe	10121.11	P	226.30	2.24
59	Co	238.89	P	35.95	15.05
60	Ni	320.00	P	8.82	2.76
65	Cu	326.65	P	40.96	12.54
66	Zn	688.87	P	57.19	8.30
72	Ge	117128.00	P	1822.00	1.56
75	As	69.46	P	90.80	130.72
82	Se	28.67	P	11.10	38.72
95	Mo	172.22	P	35.01	20.33
109	Ag	103.33	P	25.17	24.36
111	Cd	133.98	P	40.56	30.27
115	In	484716.59	P	9206.00	1.90
121	Sb	343.33	P	27.28	7.95
137	Ba	85.56	P	3.85	4.50
205	Tl	146.67	P	28.87	19.68
208	Pb	636.67	P	374.40	58.81
209	Bi	174650.00	P	5281.00	3.02

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2911a.B\004CALI.D\004CALI.D#
Date Acquired:	Mar 29 2006 11:44 am
Operator:	
Sample Name:	CS1,S2889
Misc Info:	
Vial Number:	1102
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 29 2006 11:40 am
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	648567.69	A	19600.00	3.02
9	Be	398.89	P	42.99	10.78
23	Na	202496.70	P	2699.00	1.33
26	Mg	12586.67	P	519.40	4.13
27	Al	9636.67	P	38.44	0.40
39	K	1078759.00	A	29370.00	2.72
44	Ca	25897.49	P	278.50	1.08
45	Sc	714689.81	A	12630.00	1.77
51	V	2826.56	P	242.70	8.59
52	Cr	4852.22	P	174.20	3.59
55	Mn	2991.11	P	130.90	4.38
57	Fe	11304.44	P	134.00	1.19
59	Co	1446.67	P	124.70	8.62
60	Ni	593.33	P	31.80	5.36
65	Cu	568.83	P	13.47	2.37
66	Zn	904.38	P	101.50	11.22
72	Ge	111396.70	P	766.70	0.69
75	As	117.32	P	18.00	15.34
82	Se	45.56	P	12.01	26.36
95	Mo	304.44	P	38.35	12.60
109	Ag	574.44	P	53.89	9.38
111	Cd	225.12	P	17.22	7.65
115	In	452696.09	P	16760.00	3.70
121	Sb	642.22	P	54.30	8.46
137	Ba	206.67	P	14.53	7.03
205	Tl	376.67	P	51.32	13.63
208	Pb	808.89	P	64.32	7.95
209	Bi	149242.20	P	4493.00	3.01

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6	Li	648567.75	3.02	673037.81	96.4	80 -	120	

45 Sc	714689.75	1.77	750674.38	95.2	80 -	120
72 Ge	111396.66	0.69	117128.00	95.1	80 -	120
115 In	452696.13	3.70	484716.66	93.4	80 -	120
209 Bi	149242.22	3.01	174650.00	85.5	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2911a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2911a.B\005CALI.D\005CALI.D#
Date Acquired: Mar 29 2006 11:50 am
Operator:
Sample Name: CS2,S2890
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 29 2006 11:46 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	631886.63	A	50910.00	8.06
9	Be	735.56	P	43.50	5.91
23	Na	319601.09	P	5516.00	1.73
26	Mg	24741.11	P	481.70	1.95
27	Al	9943.33	P	496.00	4.99
39	K	1205128.00	A	14440.00	1.20
44	Ca	28649.78	P	870.10	3.04
45	Sc	681807.50	A	64490.00	9.46
51	V	4287.09	P	530.50	12.37
52	Cr	6167.78	P	99.46	1.61
55	Mn	4585.56	P	130.00	2.84
57	Fe	14001.11	P	362.40	2.59
59	Co	2697.78	P	160.90	5.96
60	Ni	837.78	P	44.39	5.30
65	Cu	878.78	P	70.42	8.01
66	Zn	998.77	P	66.20	6.63
72	Ge	109528.20	P	6784.00	6.19
75	As	303.96	P	75.39	24.80
82	Se	52.89	P	17.13	32.39
95	Mo	486.67	P	35.12	7.22
109	Ag	944.44	P	29.12	3.08
111	Cd	317.57	P	50.58	15.93
115	In	475579.09	M	61120.00	12.85
121	Sb	825.56	P	68.66	8.32
137	Ba	270.00	P	8.82	3.27
205	Tl	547.78	P	28.74	5.25
208	Pb	1183.33	P	93.87	7.93
209	Bi	146314.41	P	20070.00	13.72

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	631886.56	8.06	673037.81	93.9	80 - 120	

45	Sc	681807.50	9.46	750674.38	90.8	80 -	120
72	Ge	109528.22	6.19	117128.00	93.5	80 -	120
115	In	475579.16	12.85	484716.66	98.1	80 -	120
209	Bi	146314.44	13.72	174650.00	83.8	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2911a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2911a.B\006CALI.D\006CALI.D#
Date Acquired:	Mar 29 2006 11:56 am
Operator:	
Sample Name:	CS3,S2891
Misc Info:	
Vial Number:	1104
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 29 2006 11:52 am
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	629306.38	A	13550.00	2.15
9	Be	1305.56	P	85.27	6.53
23	Na	660471.31	A	12830.00	1.94
26	Mg	47833.33	P	745.00	1.56
27	Al	11670.00	P	300.90	2.58
39	K	1472624.00	A	37170.00	2.52
44	Ca	35913.79	P	417.90	1.16
45	Sc	709445.13	A	10820.00	1.53
51	V	7303.12	P	614.00	8.41
52	Cr	8238.89	P	254.00	3.08
55	Mn	7284.44	P	141.80	1.95
57	Fe	19842.22	P	355.80	1.79
59	Co	5188.89	P	204.40	3.94
60	Ni	1402.22	P	19.53	1.39
65	Cu	1539.79	P	148.00	9.61
66	Zn	1348.65	P	70.43	5.22
72	Ge	109617.60	P	745.10	0.68
75	As	595.91	P	36.46	6.12
82	Se	56.89	P	20.44	35.93
95	Mo	906.67	P	29.06	3.21
109	Ag	1766.67	P	68.88	3.90
111	Cd	462.90	P	64.54	13.94
115	In	443339.91	P	24340.00	5.49
121	Sb	1428.89	P	48.57	3.40
137	Ba	497.78	P	65.18	13.09
205	Tl	1160.00	P	133.70	11.53
208	Pb	1891.11	P	85.98	4.55
209	Bi	142771.09	P	15010.00	10.51

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	629306.44	2.15	673037.81	93.5	80 - 120	

45	Sc	709445.13	1.53	750674.38	94.5	80 -	120
72	Ge	109617.55	0.68	117128.00	93.6	80 -	120
115	In	443339.88	5.49	484716.66	91.5	80 -	120
209	Bi	142771.09	10.51	174650.00	81.7	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2911a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2911a.B\007CALI.D\007CALI.D#
Date Acquired: Mar 29 2006 12:01 pm
Operator:
Sample Name: CS4,S2892
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 29 2006 11:57 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	600525.13	A	6849.00	1.14
9	Be	11868.89	P	191.50	1.61
23	Na	5318960.00	A	125300.00	2.36
26	Mg	538206.88	A	21190.00	3.94
27	Al	46976.66	P	1472.00	3.13
39	K	5840122.00	A	50200.00	0.86
44	Ca	152021.80	P	2281.00	1.50
45	Sc	678433.00	A	7369.00	1.09
51	V	56959.85	P	1764.00	3.10
52	Cr	50521.11	P	803.80	1.59
55	Mn	57962.22	P	1038.00	1.79
57	Fe	120467.80	P	590.30	0.49
59	Co	48253.33	P	970.10	2.01
60	Ni	10922.22	P	245.70	2.25
65	Cu	12053.32	P	322.30	2.67
66	Zn	6942.87	P	269.20	3.88
72	Ge	106944.70	P	1636.00	1.53
75	As	5413.68	P	50.80	0.94
82	Se	350.00	P	32.58	9.31
95	Mo	8193.33	P	433.20	5.29
109	Ag	17655.55	P	427.10	2.42
111	Cd	3462.53	P	218.50	6.31
115	In	423251.50	P	14600.00	3.45
121	Sb	11732.22	P	287.40	2.45
137	Ba	3904.44	P	83.36	2.14
205	Tl	10294.44	P	337.50	3.28
208	Pb	14636.67	P	428.10	2.92
209	Bi	133967.80	P	5276.00	3.94

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	600525.13	1.14	673037.81	89.2	80 - 120	

45	Sc	678433.06	1.09	750674.38	90.4	80 -	120	
72	Ge	106944.66	1.53	117128.00	91.3	80 -	120	
115	In	423251.53	3.45	484716.66	87.3	80 -	120	
209	Bi	133967.77	3.94	174650.00	76.7	80 -	120	ISFail

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2911a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
1 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**
ISTD: **Fail**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2911a.B\008CALI.D\008CALI.D#
Date Acquired: Mar 29 2006 12:07 pm
Operator:
Sample Name: CS5,S2886
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 29 2006 00:03 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	619898.63	A	11250.00	1.81
9	Be	122106.70	P	4863.00	3.98
23	Na	53290100.00	A	1569000.00	2.94
26	Mg	5227704.00	A	136000.00	2.60
27	Al	424705.31	M	22910.00	5.39
39	K	50083792.00	A	945800.00	1.89
44	Ca	1451796.00	A	33220.00	2.29
45	Sc	721136.19	A	17250.00	2.39
51	V	635674.00	A	21940.00	3.45
52	Cr	485740.00	P	17770.00	3.66
55	Mn	644433.00	A	7273.00	1.13
57	Fe	1276783.00	A	30740.00	2.41
59	Co	497036.59	M	30910.00	6.22
60	Ni	106167.80	P	2702.00	2.55
65	Cu	120219.00	P	741.00	0.62
66	Zn	60823.86	P	1415.00	2.33
72	Ge	112547.10	P	1098.00	0.98
75	As	57205.49	P	1153.00	2.02
82	Se	3198.44	P	66.95	2.09
95	Mo	85730.00	P	1415.00	1.65
109	Ag	175248.91	P	5112.00	2.92
111	Cd	34111.44	P	992.50	2.91
115	In	426194.09	P	5048.00	1.18
121	Sb	118882.20	P	6186.00	5.20
137	Ba	40878.89	P	1780.00	4.35
205	Tl	113858.90	P	8458.00	7.43
208	Pb	165971.09	P	5847.00	3.52
209	Bi	139955.59	P	6144.00	4.39

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	619898.63	1.81	673037.81	92.1	80 - 120	

45	Sc	721136.25	2.39	750674.38	96.1	80 -	120
72	Ge	112547.12	0.98	117128.00	96.1	80 -	120
115	In	426194.13	1.18	484716.66	87.9	80 -	120
209	Bi	139955.55	4.39	174650.00	80.1	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2911a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2911a.B\009CALI.D\009CALI.D#
Date Acquired: Mar 29 2006 12:12 pm
Operator:
Sample Name: CS6,S2887
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 29 2006 00:08 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	676850.69	A	19240.00	2.84
9	Be	259395.50	P	5672.00	2.19
23	Na	113932000.00	A	1654000.00	1.45
26	Mg	11333490.00	A	51740.00	0.46
27	Al	1007859.00	A	5240.00	0.52
39	K	110378700.00	A	1089000.00	0.99
44	Ca	2991870.00	A	32680.00	1.09
45	Sc	762129.38	A	13940.00	1.83
51	V	1376633.00	A	5829.00	0.42
52	Cr	1136791.00	A	17720.00	1.56
55	Mn	1384753.00	A	12480.00	0.90
57	Fe	2711976.00	A	36340.00	1.34
59	Co	1154666.00	A	27560.00	2.39
60	Ni	234775.50	P	8793.00	3.75
65	Cu	262346.50	P	1284.00	0.49
66	Zn	133748.91	P	1806.00	1.35
72	Ge	126838.90	P	1815.00	1.43
75	As	125392.20	P	448.70	0.36
82	Se	7176.22	P	92.40	1.29
95	Mo	183787.80	P	3420.00	1.86
109	Ag	385323.31	P	4792.00	1.24
111	Cd	73905.37	P	1286.00	1.74
115	In	513239.09	M	24930.00	4.86
121	Sb	265050.00	P	7436.00	2.81
137	Ba	91192.22	P	3879.00	4.25
205	Tl	277771.09	P	9140.00	3.29
208	Pb	413218.91	P	20600.00	4.99
209	Bi	178544.41	P	10330.00	5.79

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	676850.63	2.84	673037.81	100.6	80 - 120	

45	Sc	762129.38	1.83	750674.38	101.5	80 -	120
72	Ge	126838.88	1.43	117128.00	108.3	80 -	120
115	In	513239.16	4.86	484716.66	105.9	80 -	120
209	Bi	178544.44	5.79	174650.00	102.2	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2911a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Summary

Calibration : C:\ICPCHEM\1\CALIB\60200111.C
Last Calib: Mar 29, 2006 12:40
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\06c2911a.b\003calb.d\	003calb.d#	Mar 29 2006 11:39 am
2	...hem\1\data\06c2911a.b\004cali.d\	004cali.d#	Mar 29 2006 11:44 am
3	...hem\1\data\06c2911a.b\005cali.d\	005cali.d#	Mar 29 2006 11:50 am
4	...hem\1\data\06c2911a.b\006cali.d\	006cali.d#	Mar 29 2006 11:56 am
5	...hem\1\data\06c2911a.b\007cali.d\	007cali.d#	Mar 29 2006 12:01 pm
6	...hem\1\data\06c2911a.b\008cali.d\	008cali.d#	Mar 29 2006 12:07 pm
7	...hem\1\data\06c2911a.b\009cali.d\	009cali.d#	Mar 29 2006 12:12 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	Excluded	---	ppb
Be	9	6	Y = 9.631E-2*X +8.424E-3(blank)	---	ppb
Na	23	45	Y = 3.725E-1*X +9.449E+0(blank)	---	ppb
Mg	25	45	Excluded	---	ppb
Mg	26	45	Y = 3.699E-2*X +1.983E-1(blank)	---	ppb
Al	27	45	Y = 3.125E-1*X +1.783E+0(blank)	---	ppb
K	39	45	Y = 3.553E-1*X +6.538E+1(blank)	---	ppb
Ca	43	45	Excluded	---	ppb
Ca	44	45	Y = 9.770E-3*X +1.589E+0(blank)	---	ppb
Sc	45	---	Excluded	---	ppb
V	51	72	Y = 2.731E+0*X +6.673E-1(blank)	---	ppb
Cr	52	72	Y = 2.214E+0*X +1.740E+0(blank)	---	ppb
Cr	53	72	Excluded	---	ppb
Fe	54	72	Excluded	---	ppb
Mn	55	72	Y = 2.752E+0*X +6.764E-1(blank)	---	ppb
Fe	57	72	Y = 5.385E-2*X +4.321E+0(blank)	---	ppb
Co	59	72	Y = 2.262E+0*X +1.019E-1(blank)	---	ppb
Ni	60	72	Y = 4.637E-1*X +1.367E-1(blank)	---	ppb
Cu	63	72	Excluded	---	ppb
Cu	65	72	Y = 5.198E-1*X +1.395E-1(blank)	---	ppb
Zn	66	72	Y = 2.633E-1*X +2.942E-1(blank)	---	ppb
Ge	72	---	Excluded	---	ppb
As	75	72	Y = 2.484E-1*X +2.958E-2(blank)	---	ppb
(As)	77	72	Excluded	---	ppb
Se	82	72	Y = 1.409E-2*X +1.220E-2(blank)	---	ppb
(As)	83	72	Excluded	---	ppb
(Ca)	88	72	Excluded	---	ppb
Y	89	72	Excluded	---	ppb
Mo	95	72	Y = 3.656E-1*X +7.348E-2(blank)	---	ppb
Mo	98	72	Excluded	---	ppb
(Mo)	99	72	Excluded	---	ppb
(Cd)	106	72	Excluded	---	ppb
(Cd)	108	72	Excluded	---	ppb
Ag	109	72	Y = 7.632E-1*X +4.420E-2(blank)	---	ppb
Cd	111	72	Y = 1.465E-1*X +5.703E-2(blank)	---	ppb
Cd	114	72	Excluded	---	ppb
In	115	---	Excluded	---	ppb
(In)	118	---	Excluded	---	ppb
Sb	121	115	Y = 1.312E-1*X +3.540E-2(blank)	---	ppb
Ba	135	115	Excluded	---	ppb
Ba	137	115	Y = 4.508E-2*X +8.828E-3(blank)	---	ppb
Tb	159	---	Excluded	---	ppb
Er	166	115	Excluded	---	ppb
Tl	205	209	Y = 3.932E-1*X +4.194E-2(blank)	---	ppb
(Pb)	206	209	Excluded	---	ppb
(Pb)	207	209	Excluded	---	ppb
Pb	208	209	Y = 5.805E-1*X +1.846E-1(blank)	---	ppb
Bi	209	---	Excluded	---	ppb
Th	232	209	--------	---	ppb
U	238	209	--------	---	ppb

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56127407010 File : c2911010 Time : 29-MAR-2006 12:18
Cal : 56127407001 Caldate: 29-MAR-2006
Standards: S2895

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	0.6517	0.2990	100.0	89.98	ug/L	-10	10	
Antimony	0.1715	0.1386	100.0	105.4	ug/L	5	10	
Arsenic	0.2606	0.2556	100.0	102.8	ug/L	3	10	
Barium	0.0573	0.0457	100.0	101.2	ug/L	1	10	
Beryllium	0.1061	0.0940	100.0	97.47	ug/L	-3	10	
Cadmium	0.2278	0.1438	100.0	97.74	ug/L	-2	10	
Calcium	0.0197	0.0102	10000	10230	ug/L	2	10	
Chromium	3.2322	2.0870	100.0	93.48	ug/L	-7	10	
Cobalt	2.3616	2.2932	100.0	101.4	ug/L	1	10	
Copper	0.6238	0.5250	100.0	100.7	ug/L	1	10	
Iron	0.0770	0.0571	10000	10520	ug/L	5	10	
Lead	0.7144	0.5663	100.0	97.24	ug/L	-3	10	
Magnesium	0.0367	0.0376	10000	10160	ug/L	2	10	
Manganese	3.5324	2.8260	100.0	102.4	ug/L	2	10	
Molybdenum	0.3969	0.3564	100.0	97.28	ug/L	-3	10	
Nickel	0.6527	0.4940	100.0	106.2	ug/L	6	10	
Potassium	0.7911	0.3765	10000	10410	ug/L	4	10	
Selenium	0.0238	0.0144	100.0	101.6	ug/L	2	10	
Silver	0.8442	0.7788	100.0	102.0	ug/L	2	10	
Sodium	0.4146	0.3794	10000	10160	ug/L	2	10	
Thallium	0.3937	0.4158	100.0	105.7	ug/L	6	10	
Vanadium	3.0951	2.7083	100.0	98.91	ug/L	-1	10	
Zinc	0.4780	0.2629	100.0	98.73	ug/L	-1	10	

ISTD (ICALBLK c2911003)	ICALBLK Abund	Abund	%Drift
Lithium	673038	650884	-3.29
Scandium	750674	697256	-7.12
Germanium	117128	114609	-2.15
Indium	484717	451941	-6.76
Bismuth	174650	146066	-16.37

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56127407020 File : c2911020 Time : 29-MAR-2006 13:13
Cal : 56127407001 Caldate: 29-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.6517	0.3020	150.0	139.3	ug/L	-7	10	r2 ***
Antimony	0.1715	0.1419	150.0	161.9	ug/L	8	10	
Arsenic	0.2606	0.2662	150.0	160.7	ug/L	7	10	
Barium	0.0573	0.0454	150.0	150.9	ug/L	1	10	
Beryllium	0.1061	0.1030	150.0	160.3	ug/L	7	10	
Cadmium	0.2278	0.1270	150.0	129.6	ug/L	**-14**	10	c- ***
Calcium	0.0197	0.0106	15000	16110	ug/L	7	10	
Chromium	3.2322	2.1940	150.0	147.9	ug/L	-1	10	
Cobalt	2.3616	2.2367	150.0	148.3	ug/L	-1	10	
Copper	0.6238	0.5248	150.0	151.2	ug/L	1	10	
Iron	0.0770	0.0564	15000	15630	ug/L	4	10	
Lead	0.7144	0.5507	150.0	142.0	ug/L	-5	10	
Magnesium	0.0367	0.0391	15000	15870	ug/L	6	10	
Manganese	3.5324	2.6953	150.0	146.6	ug/L	-2	10	
Molybdenum	0.3969	0.3383	150.0	138.6	ug/L	-8	10	
Nickel	0.6527	0.4820	150.0	155.6	ug/L	4	10	
Potassium	0.7911	0.3761	15000	15690	ug/L	5	10	
Selenium	0.0238	0.0134	150.0	141.7	ug/L	-6	10	
Silver	0.8442	0.6737	150.0	132.4	ug/L	**-12**	10	c- ***
Sodium	0.4146	0.3920	15000	15760	ug/L	5	10	
Thallium	0.3937	0.4088	150.0	155.9	ug/L	4	10	
Vanadium	3.0951	2.9006	150.0	159.0	ug/L	6	10	
Zinc	0.4780	0.2601	150.0	147.1	ug/L	-2	10	

ISTD (ICALBLK c2911003)	ICALBLK Abund	Abund	%Drift
Lithium	673038	475993	-29.28
Scandium	750674	494468	-34.13
Germanium	117128	79837	-31.84
Indium	484717	260588	-46.24
Bismuth	174650	69430	-60.25

-=low bias c=CCV r2=ICAL r^2 failure

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56127407011 File : c2911011 Time : 29-MAR-2006 12:23
Cal : 56127407001 Caldate: 29-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	0.4397	0.2500	0.03394	ug/L	ib ***
Arsenic	[0.1654]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.01443]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.01070]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.03102]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	0.6782	0.5000	0.1891	ug/L	ib ***
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.3836]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2911003)	ICALBLK Abund	Abund	%Drift
Lithium	673038	634722	-5.69
Scandium	750674	704837	-6.11
Germanium	117128	107424	-8.28
Indium	484717	429790	-11.33
Bismuth	174650	135452	-22.44

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56127407021 File : c2911021 Time : 29-MAR-2006 13:19
Cal : 56127407001 Caldate: 29-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.09962]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.2082]	0.5000	0.09029	ug/L	!ib
Barium	[0.07062]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.03671]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	[43.30]	50.00	7.739	ug/L	!ib
Chromium	[0.1180]	0.5000	0.03860	ug/L	!ib
Cobalt	[0.01251]	0.2500	0.008548	ug/L	!ib
Copper	[0.05478]	0.5000	0.04426	ug/L	!ib
Iron	ND	50.00	6.980	ug/L	
Lead	[0.2323]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.08055]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	[43.35]	50.00	6.379	ug/L	!ib
Selenium	1.191	0.5000	0.1891	ug/L	ib ***
Silver	[0.02695]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1604]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	[0.1448]	1.000	0.09577	ug/L	!ib

ISTD (ICALBLK c2911003)	ICALBLK Abund	Abund	%Drift
Lithium	673038	487378	-27.59
Scandium	750674	501069	-33.25
Germanium	117128	78816	-32.71
Indium	484717	286607	-40.87
Bismuth	174650	71518	-59.05

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56127407012 File : c2911012 Time : 29-MAR-2006 12:29
Cal : 56127407001 Caldate: 29-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	3.161	0.2500	ug/L	
Arsenic	2.163	0.5000	ug/L	
Barium	1.011	0.2500	ug/L	
Beryllium	[0.04305]	0.2500	ug/L	
Cadmium	[0.1451]	0.2500	ug/L	
Chromium	1.518	0.5000	ug/L	
Cobalt	2.743	0.2500	ug/L	
Copper	1.838	0.5000	ug/L	
Lead	1.258	0.2500	ug/L	
Manganese	1.027	0.2500	ug/L	
Nickel	1.643	0.2500	ug/L	
Selenium	1.222	0.5000	ug/L	
Silver	[0.1441]	0.2500	ug/L	
Thallium	[0.1931]	0.5000	ug/L	
Vanadium	[0.2372]	1.000	ug/L	
Zinc	3.409	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	94380	ug/L	94
Calcium	300000	312500	ug/L	104
Iron	250000	247000	ug/L	99
Magnesium	100000	95920	ug/L	96
Molybdenum	2000	2091	ug/L	105
Potassium	100000	100000	ug/L	100
Sodium	250000	236600	ug/L	95

ISTD (ICALBLK c2911003)	ICALBLK Abund	Abund	%Drift
Lithium	673038	503899	-25.13
Scandium	750674	570052	-24.06
Germanium	117128	94447	-19.36
Indium	484717	333999	-31.09
Bismuth	174650	107200	-38.62

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56127407013 File : c2911013 Time : 29-MAR-2006 12:34
Cal : 56127407001 Caldate: 29-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	89930	ug/L	-10		
Arsenic	100.0	113.7	ug/L	14	20	
Cadmium	100.0	91.51	ug/L	-8	20	
Calcium	300000	296500	ug/L	-1		
Chromium	200.0	210.1	ug/L	5	20	
Cobalt	200.0	202.7	ug/L	1	20	
Copper	200.0	190.5	ug/L	-5	20	
Iron	250000	234700	ug/L	-6		
Magnesium	100000	91760	ug/L	-8		
Manganese	200.0	202.5	ug/L	1	20	
Molybdenum	2000	1966	ug/L	-2		
Nickel	200.0	200.2	ug/L	0	20	
Potassium	100000	95950	ug/L	-4		
Selenium	100.0	98.76	ug/L	-1	20	
Silver	50.00	44.06	ug/L	-12	20	
Sodium	250000	232700	ug/L	-7		
Vanadium	200.0	211.6	ug/L	6	20	
Zinc	100.0	97.36	ug/L	-3	20	

ISTD (ICALBLK c2911003)	ICALBLK Abund	Abund	%Drift
Scandium	750674	552496	-26.40
Germanium	117128	90028	-23.14

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56127407022 File : c2911022 Time : 29-MAR-2006 13:24
Cal : 56127407001 Caldate: 29-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.658	0.2500	ug/L	
Arsenic	1.588	0.5000	ug/L	
Barium	1.121	0.2500	ug/L	
Beryllium	[0.05414]	0.2500	ug/L	
Cadmium	[0.1007]	0.2500	ug/L	
Chromium	1.759	0.5000	ug/L	
Cobalt	2.783	0.2500	ug/L	
Copper	1.797	0.5000	ug/L	
Lead	1.593	0.2500	ug/L	
Manganese	1.055	0.2500	ug/L	
Nickel	1.744	0.2500	ug/L	
Selenium	1.091	0.5000	ug/L	
Silver	[0.1477]	0.2500	ug/L	
Thallium	[0.1728]	0.5000	ug/L	
Vanadium	[0.3152]	1.000	ug/L	
Zinc	3.900	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	101600	ug/L	102
Calcium	300000	329500	ug/L	110
Iron	250000	256200	ug/L	102
Magnesium	100000	103700	ug/L	104
Molybdenum	2000	2054	ug/L	103
Potassium	100000	108900	ug/L	109
Sodium	250000	260700	ug/L	104

ISTD (ICALBLK c2911003)	ICALBLK Abund	Abund	%Drift
Lithium	673038	390414	-41.99
Scandium	750674	431863	-42.47
Germanium	117128	72928	-37.74
Indium	484717	245070	-49.44
Bismuth	174650	58099	-66.73

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56127407023 File : c2911023 Time : 29-MAR-2006 13:30
Cal : 56127407001 Caldate: 29-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	93070	ug/L	-7		
Arsenic	100.0	116.8	ug/L	17	20	
Cadmium	100.0	85.18	ug/L	-15	20	
Calcium	300000	316000	ug/L	5		
Chromium	200.0	213.3	ug/L	7	20	
Cobalt	200.0	201.8	ug/L	1	20	
Copper	200.0	187.7	ug/L	-6	20	
Iron	250000	240200	ug/L	-4		
Magnesium	100000	95390	ug/L	-5		
Manganese	200.0	200.4	ug/L	0	20	
Molybdenum	2000	1931	ug/L	-3		
Nickel	200.0	201.8	ug/L	1	20	
Potassium	100000	101200	ug/L	1		
Selenium	100.0	96.52	ug/L	-3	20	
Silver	50.00	43.45	ug/L	-13	20	
Sodium	250000	238300	ug/L	-5		
Vanadium	200.0	219.2	ug/L	10	20	
Zinc	100.0	98.38	ug/L	-2	20	

ISTD (ICALBLK c2911003)	ICALBLK Abund	Abund	%Drift
Scandium	750674	437654	-41.70
Germanium	117128	73090	-37.60

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56127407 Instrument: MET05 Agilent ICP-MS Begun: 29-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	c2911001	TUN				29-MAR-2006 11:27	1.0	1.0				1	
003	c2911003	ICALBLK	std-blk			29-MAR-2006 11:39	1.0	1.0				2	
004	c2911004	ICAL	CS1			29-MAR-2006 11:44	1.0	1.0				3	
005	c2911005	ICAL	CS2			29-MAR-2006 11:50	1.0	1.0				4	
006	c2911006	ICAL	CS3			29-MAR-2006 11:56	1.0	1.0				5	
007	c2911007	ICAL	CS4			29-MAR-2006 12:01	1.0	1.0				6	
008	c2911008	ICAL	CS5			29-MAR-2006 12:07	1.0	1.0				7	
009	c2911009	ICAL	CS6			29-MAR-2006 12:12	1.0	1.0				8	
010	c2911010	ICV				29-MAR-2006 12:18	1.0	1.0			1	9	
011	c2911011	ICB				29-MAR-2006 12:23	1.0	1.0	2		1	2	
012	c2911012	ICSA				29-MAR-2006 12:29	1.0	1.0			1	10 2	7:CA=312500
013	c2911013	ICSAB				29-MAR-2006 12:34	1.0	1.0			1	11 2	12:CA=296500
015	c2911015	SAMPLE	185558-011	111421	Filtra	29-MAR-2006 12:45	20.0	1.0	3		1	2	
016	c2911016	SAMPLE	185558-012	111421	Filtra	29-MAR-2006 12:51	20.0	1.0	3		1	2	
017	c2911017	SAMPLE	185558-013	111421	Filtra	29-MAR-2006 12:56	20.0	1.0	3		1	2	
018	c2911018	SAMPLE	185558-014	111421	Filtra	29-MAR-2006 13:02	20.0	1.0	3		1	2	668
019	c2911019	SAMPLE	185558-015	111421	Filtra	29-MAR-2006 13:08	20.0	1.0	3		1	2	
020	c2911020	CCV				29-MAR-2006 13:13	1.0	1.0	3		1	12 2	
021	c2911021	CCB				29-MAR-2006 13:19	1.0	1.0	1		1	2	
022	c2911022	ICSA				29-MAR-2006 13:24	1.0	1.0			1	10 2	7:CA=329500
023	c2911023	ICSAB				29-MAR-2006 13:30	1.0	1.0			1	11 2	12:CA=316000

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897

Analyst: [signature] Date: 3/29/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56127578001
Units : ug/L

Date : 29-MAR-2006 14:30
X Axis : R

Reviewer: ---
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	c2914004	56127578004	CS1	29-MAR-2006 14:35	S2889
L2	c2914005	56127578005	CS2	29-MAR-2006 14:41	S2890
L3	c2914006	56127578006	CS3	29-MAR-2006 14:46	S2891
L4	c2914007	56127578007	CS4	29-MAR-2006 14:52	S2892
L5	c2914008	56127578008	CS5	29-MAR-2006 14:58	S2886
L6	c2914009	56127578009	CS6	29-MAR-2006 15:03	S2887

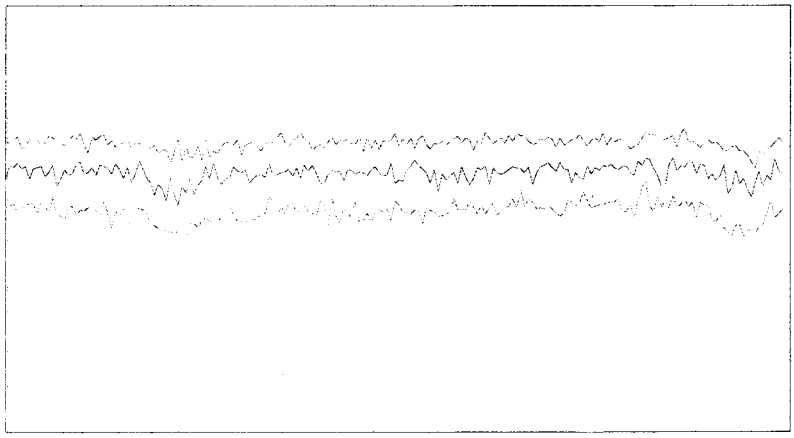
Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		0.7705	0.5419	0.3817	0.3597	0.4045	BLNK	-0.9133	2.54287		0.4916	0.996	0.995	
Antimony	0.4236	0.3312	0.2888	0.2715	0.2599	0.2600	BLNK	-0.1153	3.84848		0.3059	1.000	0.995	
Arsenic		0.5620	0.6551	0.4990	0.4594	0.4564	BLNK	-0.1121	2.18928		0.5264	1.000	0.995	
Barium	0.1059	0.1169	0.1026	0.0969	0.0997	0.0992	BLNK	-0.0413	10.0738		0.1035	1.000	0.995	
Beryllium	0.2023	0.1695	0.1534	0.1568	0.1472	0.1495	BLNK	-0.0564	6.71009		0.1631	1.000	0.995	
Cadmium	0.5802	0.4578	0.4977	0.4056	0.3812	0.3744	BLNK	-0.1088	2.66237		0.4495	1.000	0.995	
Calcium		0.0341	0.0246	0.0182	0.0170	0.0177	BLNK	-53.625	57.1678		0.0223	1.000	0.995	669
Chromium		5.8729	4.2198	2.8812	2.7168	2.6833	BLNK	-0.5413	0.37294		3.6748	1.000	0.995	
Cobalt	2.9480	3.1572	3.1751	3.0022	2.9413	2.9057	BLNK	-0.0074	0.34331		3.0216	1.000	0.995	
Copper		0.9008	0.8093	0.7687	0.7505	0.7352	BLNK	-0.0994	1.35521		0.7929	1.000	0.995	
Iron		0.1272	0.1000	0.0747	0.0717	0.0710	BLNK	-37.658	14.0938		0.0889	1.000	0.995	
Lead	1.0534	1.0168	0.8954	0.8731	0.9571	0.9797	BLNK	-0.0473	1.02598		0.9626	1.000	0.995	
Magnesium		0.0439	0.0431	0.0428	0.0473	0.0463	BLNK	-1.1293	21.5077		0.0447	1.000	0.995	
Manganese	5.9751	4.7227	4.3853	3.6142	3.5849	3.5394	BLNK	-0.1582	0.28207		4.3036	1.000	0.995	
Molybdenum		0.8606	0.8753	0.7984	0.7715	0.7569	BLNK	-0.0909	1.31676		0.8125	1.000	0.995	
Nickel	1.0408	0.8746	0.8095	0.6742	0.6491	0.6351	BLNK	-0.1929	1.56940		0.7806	1.000	0.995	
Potassium		2.4217	1.4674	0.7084	0.5801	0.5647	BLNK	-151.98	1.77693		1.1485	1.000	0.995	
Selenium		0.1367	0.0826	0.0339	0.0276	0.0268	BLNK	-1.9632	37.5411		0.0615	1.000	0.995	
Silver	1.8743	1.9982	1.9351	1.9510	1.8261	1.7899	BLNK	-0.0192	0.55641		1.8958	1.000	0.995	
Sodium		0.5579	0.4777	0.4795	0.4594	0.4526	BLNK	-15.990	2.20484		0.4854	1.000	0.995	
Thallium		0.6778	0.6398	0.6291	0.6453	0.6509	BLNK	-0.0280	1.53929		0.6486	1.000	0.995	
Vanadium		4.4532	3.8695	3.1829	3.1222	3.0983	BLNK	-0.1451	0.32253		3.5452	1.000	0.995	
Zinc		1.1060	0.8220	0.4745	0.4303	0.4219	BLNK	-0.6547	2.36978		0.6510	1.000	0.995	

BLNK=Y=aX+[blank]

Instrument amount = a0 + response * a1 + response^2 * a2

Tune Report

Tune File : ATUNE.U



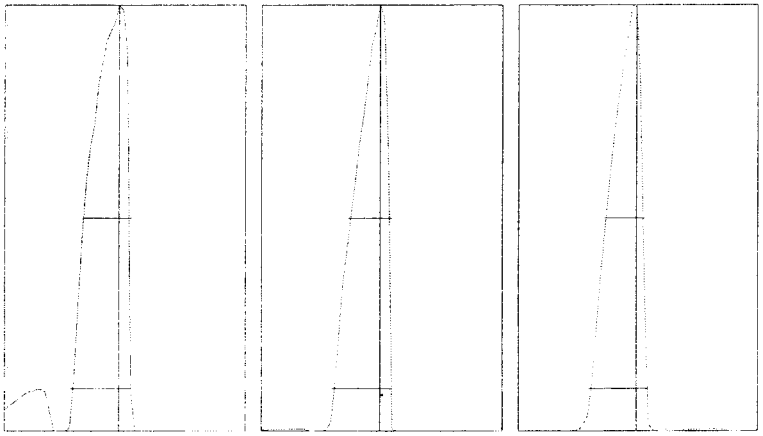
m/z:	7	89	205
Range:	50,000	50,000	20,000
Count:	30,151	33,915	10,419
Mean:	30213.8	33820.1	10292.1
RSD%:	3.30	2.21	4.54
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.39%
Doubly Charged:	70/140	2.35%

Background:

m/z:	7	89	205
Cps:	62.3	33.0	33.6



m/z:	7	89	205
Height:	31,303	33,682	10,664
Axis:	6.95	89.00	205.00
W-50%:	0.60	0.55	0.50
W-10%:	0.7500	0.7500	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1220 W	Extract 1:	-156.2 V	AMU Gain:	129
RF Matching:	1.62 V	Extract 2:	-66 V	AMU Offset:	126
Smpl Depth:	6.5 mm	Einzel 1,3:	-122 V	Axis Gain:	0.9998
Torch-H:	0 mm	Einzel 2:	-4 V	Axis Offset:	-0.13
Torch-V:	0.4 mm	Omega Bias:	-46 V	QP Bias:	1.5 V
Carrier Gas:	1.22 L/min	Omega (+):	5 V		
Makeup Gas:	0 L/min	Omega (-):	-3.7 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	5.2 V	Discriminator:	8.7 mV
PeriPump1:	0.1 rps	Plate Bias:	-12.5 V	Analog HV:	1750 V
PeriPump2:	--- rps			Pulse HV:	1220 V
S/C Temp:	2 degC				

Generated : Mar 29, 2006 10:03:20
Printed : Mar 29, 2006 10:03:27

P/A Factor Tuning Report

Acquired:Mar 29 2006 10:09 am

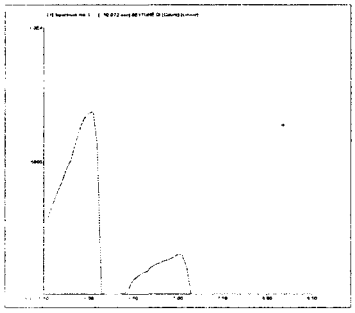
Mass[amu]	Element	P/A Factor
6	Li	0.075238
9	Be	0.081860
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.099467
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	Sensitivity too high
45	Sc	0.101043
51	V	0.104579
52	Cr	0.106196
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.108117
57	Fe	Sensitivity too high
59	Co	0.110220
60	Ni	Sensitivity too low
63	Cu	0.111260
65	Cu	0.108491
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.108896
95	Mo	Sensitivity too low
98	Mo	0.106349
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.113089
111	Cd	Sensitivity too low
114	Cd	0.110353
115	In	0.114073
118	(In)	0.117681
121	Sb	0.111223
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.116732
166	Er	Sensitivity too low

6020 QC Tune Report

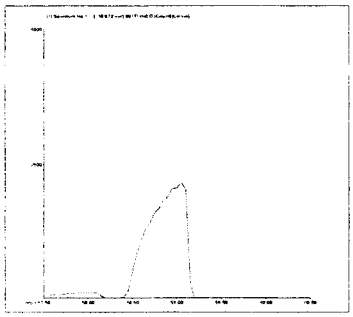
Data File: C:\ICPCHEM\1\DATA\06C2914a.B\001TUNE.D
Date Acquired: Mar 29 2006 02:18 pm
Acq. Method: TN6020.M
Operator:
Sample Name: TUN,S2898
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

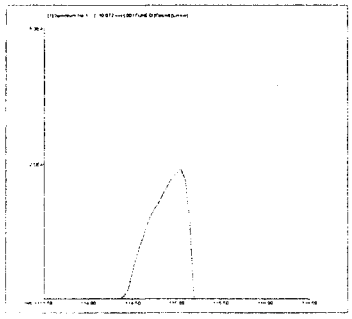
Element	Actual	Required	Flag
7 Li	1.17	5.00	
59 Co	1.41	5.00	
115 In	1.28	5.00	
205 Tl	0.67	5.00	



7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.55
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.55
Required: 0.90
Flag:



115 In

Mass Calib.

Actual: 115.05

Required: 114.90 - 115.10

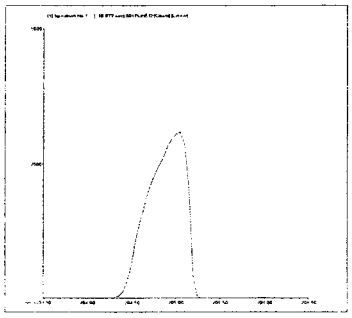
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



205 Tl

Mass Calib.

Actual: 205.05

Required: 204.90 - 205.10

Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2914a.B\002BLNK.D\002BLNK.D#
Date Acquired:	Mar 29 2006 02:24 pm
Acq. Method:	60200111.M
Operator:	
Sample Name:	RINSE
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update:	Mar 29 2006 00:14 pm
Sample Type:	6-Blank
Dilution Factor:	1.00

QC Elements

Element	Corr. Conc.	RSD(%)	Raw Conc.	High Limit	Flag
9 Be	-0.04375 ppb	90.38	-0.04375	1.00	
23 Na	-4.104 ppb	13.61	-4.104	1.00	
26 Mg	-3.726 ppb	4.67	-3.726	1.00	
27 Al	-4.108 ppb	6.82	-4.108	1.00	
39 K	57.5 ppb	1.34	57.5	1.00	
44 Ca	-44.14 ppb	3.12	-44.14	1.00	
51 V	-0.103 ppb	146.12	-0.103	1.00	
52 Cr	-0.07426 ppb	31.44	-0.07426	1.00	
55 Mn	-0.07152 ppb	11.46	-0.07152	1.00	
57 Fe	-33.61 ppb	8.00	-33.61	1.00	
59 Co	-0.0347 ppb	12.57	-0.0347	1.00	
60 Ni	0.0636 ppb	118.36	0.0636	1.00	
65 Cu	-0.1126 ppb	37.86	-0.1126	1.00	
66 Zn	0.1287 ppb	172.65	0.1287	1.00	
75 As	0.7137 ppb	80.62	0.7137	1.00	
82 Se	4.583 ppb	51.65	4.583	1.00	
95 Mo	0.02055 ppb	212.17	0.02055	1.00	
109 Ag	-0.001865 ppb	2284.20	-0.001865	1.00	
111 Cd	-0.02282 ppb	522.35	-0.02282	1.00	
121 Sb	0.05278 ppb	77.11	0.05278	1.00	
137 Ba	-0.1209 ppb	19.70	-0.1209	1.00	
205 Tl	0.02791 ppb	145.54	0.02791	1.00	
208 Pb	-0.225 ppb	8.41	-0.225	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	65645.55	2.69	---	#VALUE!	80 - 120	
45 Sc	108517.77	0.49	---	#VALUE!	80 - 120	
72 Ge	26061.56	0.65	---	#VALUE!	80 - 120	
115 In	181054.42	0.46	---	#VALUE!	80 - 120	
209 Bi	174394.44	0.91	---	#VALUE!	80 - 120	

ISTD Ref File : ---

2 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Fail
ISTD: Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06C2914a.B\003CAL
Date Acquired: Mar 29 2006 02:30 pm
Operator:
Sample Name: std-blk
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 29 2006 00:14 pm
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	65986.66	P	534.50	0.81
9	Be	11.11	P	3.85	34.64
23	Na	15814.44	P	372.60	2.36
26	Mg	114.44	P	25.24	22.05
27	Al	783.33	P	158.10	20.18
39	K	186525.59	P	2122.00	1.14
44	Ca	2047.42	P	206.50	10.09
45	Sc	109051.10	P	1414.00	1.30
51	V	230.97	P	151.80	65.72
52	Cr	747.78	P	25.89	3.46
55	Mn	288.89	P	6.94	2.40
57	Fe	1376.67	P	58.97	4.28
59	Co	11.11	P	1.93	17.33
60	Ni	63.33	P	3.33	5.26
65	Cu	37.78	P	3.85	10.19
66	Zn	142.22	P	23.65	16.63
72	Ge	25761.55	P	190.30	0.74
75	As	26.30	P	32.89	125.08
82	Se	26.89	P	13.36	49.69
95	Mo	35.56	P	8.39	23.59
109	Ag	17.78	P	1.93	10.83
111	Cd	21.08	P	5.50	26.07
115	In	176535.70	P	1767.00	1.00
121	Sb	105.56	P	33.39	31.63
137	Ba	14.44	P	5.09	35.25
205	Tl	61.11	P	17.11	28.00
208	Pb	154.44	P	34.05	22.05
209	Bi	167952.20	P	2659.00	1.58

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2914a.B\004CALI.D\004CALI.D#
Date Acquired: Mar 29 2006 02:35 pm
Operator:
Sample Name: CS1,S2889
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 29 2006 02:31 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	65908.88	P	674.10	1.02
9 Be	66.67	P	11.55	17.33
23 Na	36773.33	P	181.90	0.49
26 Mg	2206.67	P	44.85	2.03
27 Al	856.67	P	49.10	5.73
39 K	221031.09	P	1645.00	0.74
44 Ca	2746.31	P	92.14	3.36
45 Sc	107663.30	P	981.00	0.91
51 V	769.26	P	140.00	18.20
52 Cr	1087.78	P	20.09	1.85
55 Mn	773.33	P	23.33	3.02
57 Fe	2303.33	P	43.59	1.89
59 Co	381.11	P	27.76	7.28
60 Ni	134.44	P	20.09	14.94
65 Cu	158.88	P	41.14	25.89
66 Zn	238.88	P	5.09	2.13
72 Ge	25888.00	P	534.60	2.07
75 As	182.11	P	38.25	21.00
82 Se	43.78	P	5.39	12.31
95 Mo	137.78	P	13.88	10.07
109 Ag	242.22	P	28.74	11.87
111 Cd	75.08	P	10.78	14.36
115 In	176314.30	P	1826.00	1.04
121 Sb	373.33	P	18.56	4.97
137 Ba	93.33	P	17.64	18.90
205 Tl	535.56	P	55.81	10.42
208 Pb	877.78	P	57.96	6.60
209 Bi	166566.70	P	2471.00	1.48

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	65908.88	1.02	65986.66	99.9	80 - 120	

45	Sc	107663.33	0.91	109051.11	98.7	80 - 120
72	Ge	25888.00	2.07	25761.56	100.5	80 - 120
115	In	176314.27	1.04	176535.75	99.9	80 - 120
209	Bi	166566.66	1.48	167952.22	99.2	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2914a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2914a.B\005CALI.D\005CALI.D#
Date Acquired: Mar 29 2006 02:41 pm
Operator:
Sample Name: CS2,S2890
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 29 2006 02:37 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	65030.00	P	1416.00	2.18
9	Be	110.00	P	15.28	13.89
23	Na	59216.66	P	409.20	0.69
26	Mg	4660.00	P	89.88	1.93
27	Al	818.89	P	67.11	8.20
39	K	257030.00	P	1633.00	0.64
44	Ca	3621.80	P	28.40	0.78
45	Sc	106182.20	P	3047.00	2.87
51	V	1132.88	P	185.20	16.35
52	Cr	1493.33	P	64.38	4.31
55	Mn	1201.11	P	77.27	6.43
57	Fe	3233.33	P	17.64	0.55
59	Co	802.22	P	44.76	5.58
60	Ni	222.22	P	6.94	3.12
65	Cu	228.87	P	22.19	9.70
66	Zn	281.09	P	23.65	8.41
72	Ge	25421.11	P	442.80	1.74
75	As	142.85	P	73.75	51.63
82	Se	34.89	P	18.62	53.37
95	Mo	218.89	P	22.19	10.14
109	Ag	507.78	P	37.91	7.47
111	Cd	116.11	P	22.41	19.30
115	In	174994.30	P	4125.00	2.36
121	Sb	578.89	P	33.72	5.83
137	Ba	204.44	P	25.89	12.66
205	Tl	1092.22	P	39.77	3.64
208	Pb	1637.78	P	70.66	4.31
209	Bi	161241.09	P	3870.00	2.40

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	65030.00	2.18	65986.66	98.6	80 - 120	

45	Sc	106182.22	2.87	109051.11	97.4	80 - 120
72	Ge	25421.11	1.74	25761.56	98.7	80 - 120
115	In	174994.25	2.36	176535.75	99.1	80 - 120
209	Bi	161241.09	2.40	167952.22	96.0	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2914a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2914a.B\006CALI.D\006CALI.D#
Date Acquired: Mar 29 2006 02:46 pm
Operator:
Sample Name: CS3,S2891
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 29 2006 02:42 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	66600.00	P	1042.00	1.56
9	Be	204.44	P	11.71	5.73
23	Na	103618.90	P	699.00	0.67
26	Mg	9340.00	P	112.70	1.21
27	Al	1175.56	P	73.43	6.25
39	K	318320.00	P	660.40	0.21
44	Ca	5345.15	P	144.30	2.70
45	Sc	108467.80	P	819.40	0.76
51	V	1971.35	P	94.09	4.77
52	Cr	2148.89	P	113.40	5.28
55	Mn	2234.44	P	156.70	7.01
57	Fe	5094.44	P	147.90	2.90
59	Co	1616.67	P	87.18	5.39
60	Ni	412.22	P	16.44	3.99
65	Cu	412.18	P	68.10	16.52
66	Zn	418.84	P	34.21	8.17
72	Ge	25467.78	P	224.80	0.88
75	As	333.66	P	12.71	3.81
82	Se	42.00	P	12.35	29.41
95	Mo	445.56	P	56.21	12.62
109	Ag	985.56	P	35.64	3.62
111	Cd	253.67	P	36.08	14.22
115	In	176575.80	P	127.90	0.07
121	Sb	1020.00	P	72.65	7.12
137	Ba	362.22	P	8.39	2.32
205	Tl	2096.67	P	47.26	2.25
208	Pb	2936.67	P	203.70	6.94
209	Bi	163870.00	P	4740.00	2.89

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	66600.00	1.56	65986.66	100.9	80 - 120	

45	Sc	108467.77	0.76	109051.11	99.5	80 - 120
72	Ge	25467.78	0.88	25761.56	98.9	80 - 120
115	In	176575.84	0.07	176535.75	100.0	80 - 120
209	Bi	163870.00	2.89	167952.22	97.6	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2914a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2914a.B\007CALI.D\007CALI.D#
Date Acquired: Mar 29 2006 02:52 pm
Operator:
Sample Name: CS4,S2892
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 29 2006 02:48 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	67143.33	P	766.60	1.14
9	Be	2105.56	P	5.09	0.24
23	Na	1037080.00	A	4760.00	0.46
26	Mg	92596.66	P	1087.00	1.17
27	Al	8254.44	P	196.00	2.37
39	K	1532212.00	A	4644.00	0.30
44	Ca	39443.13	P	367.20	0.93
45	Sc	108144.40	P	757.70	0.70
51	V	16348.46	P	450.30	2.75
52	Cr	14798.89	P	331.10	2.24
55	Mn	18565.55	P	161.90	0.87
57	Fe	38376.67	P	188.20	0.49
59	Co	15422.22	P	249.10	1.62
60	Ni	3463.33	P	69.28	2.00
65	Cu	3948.49	P	69.31	1.76
66	Zn	2437.31	P	55.42	2.27
72	Ge	25683.78	P	95.02	0.37
75	As	2562.98	P	105.90	4.13
82	Se	174.22	P	3.29	1.89
95	Mo	4101.11	P	51.03	1.24
109	Ag	10021.11	P	238.20	2.38
111	Cd	2083.57	P	93.17	4.47
115	In	174255.09	P	1182.00	0.68
121	Sb	9461.11	P	175.10	1.85
137	Ba	3376.67	P	105.80	3.13
205	Tl	20565.55	P	365.20	1.78
208	Pb	28524.44	P	649.30	2.28
209	Bi	163563.30	P	5462.00	3.34

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	67143.33	1.14	65986.66	101.8	80 - 120	

45	Sc	108144.45	0.70	109051.11	99.2	80 - 120
72	Ge	25683.78	0.37	25761.56	99.7	80 - 120
115	In	174255.13	0.68	176535.75	98.7	80 - 120
209	Bi	163563.33	3.34	167952.22	97.4	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2914a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**

ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2914a.B\008CALI.D\008CALI.D#
Date Acquired: Mar 29 2006 02:58 pm
Operator:
Sample Name: CS5,S2886
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 29 2006 02:54 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	76237.78	P	526.50	0.69
9	Be	22442.22	P	110.00	0.49
23	Na	10842870.00	A	61820.00	0.57
26	Mg	1115489.00	A	7875.00	0.71
27	Al	84902.22	P	1753.00	2.06
39	K	13693830.00	A	89310.00	0.65
44	Ca	402131.81	P	1698.00	0.42
45	Sc	118024.40	P	671.50	0.57
51	V	169620.80	P	1245.00	0.73
52	Cr	147598.91	P	300.00	0.20
55	Mn	194760.00	P	1198.00	0.62
57	Fe	389693.31	P	3190.00	0.82
59	Co	159793.30	P	638.10	0.40
60	Ni	35266.67	P	124.90	0.35
65	Cu	40771.81	P	189.80	0.47
66	Zn	23378.87	P	718.50	3.07
72	Ge	27163.78	P	16.39	0.06
75	As	24956.45	P	223.00	0.89
82	Se	1498.67	P	7.42	0.50
95	Mo	41912.22	P	130.10	0.31
109	Ag	99205.55	P	477.20	0.48
111	Cd	20709.74	P	245.70	1.19
115	In	175781.00	P	372.00	0.21
121	Sb	91370.00	P	1136.00	1.24
137	Ba	35052.22	P	233.00	0.66
205	Tl	211313.30	P	339.50	0.16
208	Pb	313573.31	P	9828.00	3.13
209	Bi	163792.20	P	3787.00	2.31

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	76237.77	0.69	65986.66	115.5	80 - 120	

45	Sc	118024.44	0.57	109051.11	108.2	80 - 120
72	Ge	27163.78	0.06	25761.56	105.4	80 - 120
115	In	175780.95	0.21	176535.75	99.6	80 - 120
209	Bi	163792.22	2.31	167952.22	97.5	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2914a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2914a.B\009CALI.D\009CALI.D#
Date Acquired: Mar 29 2006 03:03 pm
Operator:
Sample Name: CS6,S2887
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 29 2006 02:59 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	77624.44	P	2084.00	2.68
9	Be	46408.89	P	103.60	0.22
23	Na	21574440.00	A	381700.00	1.77
26	Mg	2207889.00	A	24870.00	1.13
27	Al	192804.41	P	946.20	0.49
39	K	26917660.00	A	334300.00	1.24
44	Ca	842649.00	M	29720.00	3.53
45	Sc	119171.10	P	16.44	0.01
51	V	339548.31	P	1681.00	0.50
52	Cr	294065.50	P	436.60	0.15
55	Mn	387884.41	P	1537.00	0.40
57	Fe	777625.50	P	4279.00	0.55
59	Co	318436.69	P	805.00	0.25
60	Ni	69596.66	P	118.90	0.17
65	Cu	80576.00	P	378.60	0.47
66	Zn	46236.74	P	339.20	0.73
72	Ge	27398.00	P	82.27	0.30
75	As	50018.51	P	382.80	0.77
82	Se	2935.56	P	72.79	2.48
95	Mo	82946.66	P	788.60	0.95
109	Ag	196161.09	P	1167.00	0.59
111	Cd	41036.75	P	428.70	1.04
115	In	174504.91	P	1413.00	0.81
121	Sb	181514.41	P	2958.00	1.63
137	Ba	69238.88	P	295.80	0.43
205	Tl	419711.09	P	1942.00	0.46
208	Pb	631694.38	P	1334.00	0.21
209	Bi	161206.70	P	1293.00	0.80

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	77624.45	2.68	65986.66	117.6	80 - 120	

45	Sc	119171.10	0.01	109051.11	109.3	80 -	120
72	Ge	27398.00	0.30	25761.56	106.4	80 -	120
115	In	174504.91	0.81	176535.75	98.8	80 -	120
209	Bi	161206.66	0.80	167952.22	96.0	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2914a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**
ISTD: **Pass**

Calibration Summary

Calibration : C:\ICPCHEM\1\CALIB\60200111.C
Last Calib: Mar 29, 2006 15:19
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\06c2914a.b\003calb.d\	003calb.d#	Mar 29 2006 02:30 pm
2	...hem\1\data\06c2914a.b\004cali.d\	004cali.d#	Mar 29 2006 02:35 pm
3	...hem\1\data\06c2914a.b\005cali.d\	005cali.d#	Mar 29 2006 02:41 pm
4	...hem\1\data\06c2914a.b\006cali.d\	006cali.d#	Mar 29 2006 02:46 pm
5	...hem\1\data\06c2914a.b\007cali.d\	007cali.d#	Mar 29 2006 02:52 pm
6	...hem\1\data\06c2914a.b\008cali.d\	008cali.d#	Mar 29 2006 02:58 pm
7	...hem\1\data\06c2914a.b\009cali.d\	009cali.d#	Mar 29 2006 03:03 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	Excluded	---	ppb
Be	9	6	Y = 1.490E-1*X +8.407E-3(blank)	---	ppb
Na	23	45	Y = 4.535E-1*X +7.252E+0(blank)	---	ppb
Mg	25	45	Excluded	---	ppb
Mg	26	45	Y = 4.650E-2*X +5.251E-2(blank)	---	ppb
Al	27	45	Y = 3.933E-1*X +3.592E-1(blank)	---	ppb
K	39	45	Y = 5.628E-1*X +8.553E+1(blank)	---	ppb
Ca	43	45	Excluded	---	ppb
Ca	44	45	Y = 1.749E-2*X +9.380E-1(blank)	---	ppb
Sc	45	---	Excluded	---	ppb
V	51	72	Y = 3.100E+0*X +4.497E-1(blank)	---	ppb
Cr	52	72	Y = 2.681E+0*X +1.452E+0(blank)	---	ppb
Cr	53	72	Excluded	---	ppb
Fe	54	72	Excluded	---	ppb
Mn	55	72	Y = 3.545E+0*X +5.607E-1(blank)	---	ppb
Fe	57	72	Y = 7.095E-2*X +2.672E+0(blank)	---	ppb
Co	59	72	Y = 2.913E+0*X +2.158E-2(blank)	---	ppb
Ni	60	72	Y = 6.372E-1*X +1.229E-1(blank)	---	ppb
Cu	63	72	Excluded	---	ppb
Cu	65	72	Y = 7.379E-1*X +7.336E-2(blank)	---	ppb
Zn	66	72	Y = 4.220E-1*X +2.763E-1(blank)	---	ppb
Ge	72	---	Excluded	---	ppb
As	75	72	Y = 4.568E-1*X +5.123E-2(blank)	---	ppb
(As)	77	72	Excluded	---	ppb
Se	82	72	Y = 2.664E-2*X +5.230E-2(blank)	---	ppb
(As)	83	72	Excluded	---	ppb
(Ca)	88	72	Excluded	---	ppb
Y	89	72	Excluded	---	ppb
Mo	95	72	Y = 7.594E-1*X +6.900E-2(blank)	---	ppb
Mo	98	72	Excluded	---	ppb
(Mo)	99	72	Excluded	---	ppb
(Cd)	106	72	Excluded	---	ppb
(Cd)	108	72	Excluded	---	ppb
Ag	109	72	Y = 1.797E+0*X +3.452E-2(blank)	---	ppb
Cd	111	72	Y = 3.756E-1*X +4.088E-2(blank)	---	ppb
Cd	114	72	Excluded	---	ppb
In	115	---	Excluded	---	ppb
(In)	118	---	Excluded	---	ppb
Sb	121	115	Y = 2.598E-1*X +2.996E-2(blank)	---	ppb
Ba	135	115	Excluded	---	ppb
Ba	137	115	Y = 9.927E-2*X +4.095E-3(blank)	---	ppb
Tb	159	---	Excluded	---	ppb
Er	166	115	Excluded	---	ppb
Tl	205	209	Y = 6.497E-1*X +1.818E-2(blank)	---	ppb
(Pb)	206	209	Excluded	---	ppb
(Pb)	207	209	Excluded	---	ppb
Pb	208	209	Y = 9.747E-1*X +4.609E-2(blank)	---	ppb
Bi	209	---	Excluded	---	ppb
Th	232	209	--------	---	ppb
U	238	209	--------	---	ppb

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56127578010 File : c2914010 Time : 29-MAR-2006 15:09
Cal : 56127578001 Caldate: 29-MAR-2006
Standards: S2895, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	0.4916	0.3880	100.0	97.74	ug/L	-2	10	
Antimony	0.3059	0.2639	100.0	101.5	ug/L	2	10	
Arsenic	0.5264	0.4681	100.0	102.4	ug/L	2	10	
Barium	0.1035	0.0995	100.0	100.1	ug/L	0	10	
Beryllium	0.1631	0.1479	100.0	99.21	ug/L	-1	10	
Cadmium	0.4495	0.3936	100.0	104.7	ug/L	5	10	
Calcium	0.0223	0.0172	10000	9802	ug/L	-2	10	
Chromium	3.6748	2.7037	100.0	100.3	ug/L	0	10	
Cobalt	3.0216	2.9189	100.0	100.2	ug/L	0	10	
Copper	0.7929	0.7408	100.0	100.3	ug/L	0	10	
Iron	0.0889	0.0709	10000	9961	ug/L	0	10	
Lead	0.9626	0.9423	100.0	96.63	ug/L	-3	10	
Magnesium	0.0447	0.0478	10000	10290	ug/L	3	10	
Manganese	4.3036	3.5598	100.0	100.3	ug/L	0	10	
Molybdenum	0.8125	0.7711	100.0	101.4	ug/L	1	10	
Nickel	0.7806	0.6401	100.0	100.3	ug/L	0	10	
Potassium	1.1485	0.5841	10000	10230	ug/L	2	10	
Selenium	0.0615	0.0281	100.0	103.3	ug/L	3	10	
Silver	1.8958	1.8416	100.0	102.4	ug/L	2	10	
Sodium	0.4854	0.4589	10000	10100	ug/L	1	10	
Thallium	0.6486	0.6442	100.0	99.13	ug/L	-1	10	
Vanadium	3.5452	3.1170	100.0	100.4	ug/L	0	10	
Zinc	0.6510	0.4275	100.0	100.7	ug/L	1	10	

ISTD (ICALBLK c2914003)	ICALBLK Abund	Abund	%Drift
Lithium	65987	74934	13.56
Scandium	109051	112371	3.04
Germanium	25762	26417	2.54
Indium	176536	172621	-2.22
Bismuth	167952	161436	-3.88

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56127578024 File : c2914024 Time : 29-MAR-2006 16:31
Cal : 56127578001 Caldate: 29-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.4916	0.3304	150.0	125.1	ug/L	**-17**	10	c- ***
Antimony	0.3059	0.2750	150.0	158.6	ug/L	6	10	
Arsenic	0.5264	0.5024	150.0	164.9	ug/L	10	10	
Barium	0.1035	0.0999	150.0	150.9	ug/L	1	10	
Beryllium	0.1631	0.1918	150.0	193.0	ug/L	**29**	10	c+ ***
Cadmium	0.4495	0.4115	150.0	164.2	ug/L	9	10	
Calcium	0.0223	0.0169	15000	14410	ug/L	-4	10	
Chromium	3.6748	2.6114	150.0	145.5	ug/L	-3	10	
Cobalt	3.0216	2.7631	150.0	142.3	ug/L	-5	10	
Copper	0.7929	0.7179	150.0	145.8	ug/L	-3	10	
Iron	0.0889	0.0670	15000	14120	ug/L	-6	10	
Lead	0.9626	0.8997	150.0	138.4	ug/L	-8	10	
Magnesium	0.0447	0.0439	15000	14150	ug/L	-6	10	
Manganese	4.3036	3.3514	150.0	141.6	ug/L	-6	10	
Molybdenum	0.8125	0.7781	150.0	153.6	ug/L	2	10	
Nickel	0.7806	0.6120	150.0	143.9	ug/L	-4	10	
Potassium	1.1485	0.5603	15000	14780	ug/L	-1	10	
Selenium	0.0615	0.0268	150.0	148.8	ug/L	-1	10	
Silver	1.8958	1.9419	150.0	162.1	ug/L	8	10	
Sodium	0.4854	0.4092	15000	13520	ug/L	-10	10	
Thallium	0.6486	0.6106	150.0	141.0	ug/L	-6	10	
Vanadium	3.5452	3.0231	150.0	146.1	ug/L	-3	10	
Zinc	0.6510	0.4336	150.0	153.5	ug/L	2	10	

ISTD (ICALBLK c2914003)	ICALBLK Abund	Abund	%Drift
Lithium	65987	60473	-8.36
Scandium	109051	118548	8.71
Germanium	25762	28125	9.17
Indium	176536	192102	8.82
Bismuth	167952	181184	7.88

+=high bias -=low bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56127578012 File : c2914012 Time : 29-MAR-2006 15:23
Cal : 56127578001 Caldate: 29-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.09458]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.3574]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	[0.06005]	0.2500	0.04566	ug/L	!ib
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.05167]	0.5000	0.03860	ug/L	!ib
Cobalt	[0.01144]	0.2500	0.008548	ug/L	!ib
Copper	[0.07183]	0.5000	0.04426	ug/L	!ib
Iron	[14.49]	50.00	6.980	ug/L	!ib
Lead	[0.01791]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.09068]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	66.86	50.00	6.379	ug/L	ib ***
Selenium	1.776	0.5000	0.1891	ug/L	ib ***
Silver	[0.02056]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.03190]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	2.371	1.000	0.09577	ug/L	ib ***

ISTD (ICALBLK c2914003)	ICALBLK Abund	Abund	%Drift
Lithium	65987	57700	-12.56
Scandium	109051	97209	-10.86
Germanium	25762	23304	-9.54
Indium	176536	166987	-5.41
Bismuth	167952	151136	-10.01

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56127578012 File : c2914012 Time : 29-MAR-2006 15:23
Cal : 56127578001 Caldate: 29-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.09458]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.3574]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	[0.06005]	0.2500	0.04566	ug/L	!ib
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.05167]	0.5000	0.03860	ug/L	!ib
Cobalt	[0.01144]	0.2500	0.008548	ug/L	!ib
Copper	[0.07183]	0.5000	0.04426	ug/L	!ib
Iron	[14.49]	50.00	6.980	ug/L	!ib
Lead	[0.01791]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.09068]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	66.86	50.00	6.379	ug/L	ib ***
Selenium	1.776	0.5000	0.1891	ug/L	ib ***
Silver	[0.02056]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.03190]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	2.371	1.000	0.09577	ug/L	ib ***

ISTD (ICALBLK c2914003)	ICALBLK Abund	Abund	%Drift
Lithium	65987	57700	-12.56
Scandium	109051	97209	-10.86
Germanium	25762	23304	-9.54
Indium	176536	166987	-5.41
Bismuth	167952	151136	-10.01

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56127578026 File : c2914026 Time : 29-MAR-2006 16:42
Cal : 56127578001 Caldate: 29-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.07841]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1395]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.01465]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	[14.73]	50.00	6.980	ug/L	!ib
Lead	[0.01094]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.1192]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	[37.75]	50.00	6.379	ug/L	!ib
Selenium	[0.2103]	0.5000	0.1891	ug/L	!ib
Silver	[0.01655]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.04642]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	[0.1221]	1.000	0.09577	ug/L	!ib

ISTD (ICALBLK c2914003)	ICALBLK Abund	Abund	%Drift
Lithium	65987	51847	-21.43
Scandium	109051	103338	-5.24
Germanium	25762	25932	0.66
Indium	176536	192064	8.80
Bismuth	167952	185224	10.28

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56127578013 File : c2914013 Time : 29-MAR-2006 15:29
Cal : 56127578001 Caldate: 29-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.822	0.2500	ug/L	
Arsenic	1.128	0.5000	ug/L	
Barium	1.065	0.2500	ug/L	
Beryllium	[0.1238]	0.2500	ug/L	
Cadmium	[0.05768]	0.2500	ug/L	
Chromium	1.518	0.5000	ug/L	
Cobalt	2.588	0.2500	ug/L	
Copper	1.530	0.5000	ug/L	
Lead	1.228	0.2500	ug/L	
Manganese	0.9905	0.2500	ug/L	
Nickel	1.137	0.2500	ug/L	
Selenium	0.9254	0.5000	ug/L	
Silver	[0.1764]	0.2500	ug/L	
Thallium	[0.05089]	0.5000	ug/L	
Vanadium	[0.1737]	1.000	ug/L	
Zinc	4.216	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	93170	ug/L	93
Calcium	300000	318000	ug/L	106
Iron	250000	250300	ug/L	100
Magnesium	100000	93760	ug/L	94
Molybdenum	2000	2240	ug/L	112
Potassium	100000	98880	ug/L	99
Sodium	250000	227600	ug/L	91

ISTD (ICALBLK c2914003)	ICALBLK Abund	Abund	%Drift
Lithium	65987	49717	-24.66
Scandium	109051	100082	-8.22
Germanium	25762	25443	-1.24
Indium	176536	168499	-4.55
Bismuth	167952	155172	-7.61

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56127578014 File : c2914014 Time : 29-MAR-2006 15:34
Cal : 56127578001 Caldate: 29-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	84580	ug/L	-15		
Arsenic	100.0	116.1	ug/L	16	20	
Cadmium	100.0	112.5	ug/L	13	20	
Calcium	300000	302300	ug/L	1		
Chromium	200.0	186.0	ug/L	-7	20	
Cobalt	200.0	183.9	ug/L	-8	20	
Copper	200.0	184.5	ug/L	-8	20	
Iron	250000	236600	ug/L	-5		
Magnesium	100000	85230	ug/L	-15		
Manganese	200.0	184.7	ug/L	-8	20	
Molybdenum	2000	2157	ug/L	8		
Nickel	200.0	181.5	ug/L	-9	20	
Potassium	100000	93140	ug/L	-7		
Selenium	100.0	105.0	ug/L	5	20	
Silver	50.00	53.16	ug/L	6	20	
Sodium	250000	206100	ug/L	-18		
Vanadium	200.0	191.0	ug/L	-5	20	
Zinc	100.0	100.6	ug/L	1	20	

ISTD (ICALBLK c2914003)	ICALBLK Abund	Abund	%Drift
Scandium	109051	104334	-4.33
Germanium	25762	26852	4.23

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56127578027 File : c2914027 Time : 29-MAR-2006 16:48
Cal : 56127578001 Caldate: 29-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.808	0.2500	ug/L	
Arsenic	0.9858	0.5000	ug/L	
Barium	1.160	0.2500	ug/L	
Beryllium	[0.1076]	0.2500	ug/L	
Cadmium	[0.05669]	0.2500	ug/L	
Chromium	1.556	0.5000	ug/L	
Cobalt	2.633	0.2500	ug/L	
Copper	1.483	0.5000	ug/L	
Lead	1.183	0.2500	ug/L	
Manganese	1.050	0.2500	ug/L	
Nickel	1.122	0.2500	ug/L	
Selenium	0.8969	0.5000	ug/L	
Silver	[0.1883]	0.2500	ug/L	
Thallium	[0.07559]	0.5000	ug/L	
Vanadium	[0.3589]	1.000	ug/L	
Zinc	3.703	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	88420	ug/L	88
Calcium	300000	319100	ug/L	106
Iron	250000	247600	ug/L	99
Magnesium	100000	89440	ug/L	89
Molybdenum	2000	2235	ug/L	112
Potassium	100000	98260	ug/L	98
Sodium	250000	215500	ug/L	86

ISTD (ICALBLK c2914003)	ICALBLK Abund	Abund	%Drift
Lithium	65987	40919	-37.99
Scandium	109051	94723	-13.14
Germanium	25762	24728	-4.01
Indium	176536	164493	-6.82
Bismuth	167952	152813	-9.01

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56127578028 File : c2914028 Time : 29-MAR-2006 16:53
Cal : 56127578001 Caldate: 29-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	82630	ug/L	-17		
Arsenic	100.0	118.4	ug/L	18	20	
Cadmium	100.0	110.8	ug/L	11	20	
Calcium	300000	302500	ug/L	1		
Chromium	200.0	185.6	ug/L	-7	20	
Cobalt	200.0	183.7	ug/L	-8	20	
Copper	200.0	186.9	ug/L	-7	20	
Iron	250000	237800	ug/L	-5		
Magnesium	100000	83300	ug/L	-17		
Manganese	200.0	185.1	ug/L	-7	20	
Molybdenum	2000	2133	ug/L	7		
Nickel	200.0	181.5	ug/L	-9	20	
Potassium	100000	94240	ug/L	-6		
Selenium	100.0	104.6	ug/L	5	20	
Silver	50.00	53.51	ug/L	7	20	
Sodium	250000	199100	ug/L	-20		
Vanadium	200.0	191.5	ug/L	-4	20	
Zinc	100.0	100.2	ug/L	0	20	

ISTD (ICALBLK c2914003)	ICALBLK Abund	Abund	%Drift
Scandium	109051	95726	-12.22
Germanium	25762	24999	-2.96

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56127578 Instrument: MET05 Agilent ICP-MS Begun: 29-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	c2914001	TUN				29-MAR-2006 14:18	1.0	1.0				1	
003	c2914003	ICALBLK	std-blk			29-MAR-2006 14:30	1.0	1.0				2	
004	c2914004	ICAL	CS1			29-MAR-2006 14:35	1.0	1.0				3	
005	c2914005	ICAL	CS2			29-MAR-2006 14:41	1.0	1.0				4	
006	c2914006	ICAL	CS3			29-MAR-2006 14:46	1.0	1.0				5	
007	c2914007	ICAL	CS4			29-MAR-2006 14:52	1.0	1.0				6	
008	c2914008	ICAL	CS5			29-MAR-2006 14:58	1.0	1.0				7	
009	c2914009	ICAL	CS6			29-MAR-2006 15:03	1.0	1.0				8	
010	c2914010	ICV				29-MAR-2006 15:09	1.0	1.0			1	9 2	
012	c2914012	ICB				29-MAR-2006 15:23	1.0	1.0	3		1	2	
013	c2914013	ICSA				29-MAR-2006 15:29	1.0	1.0			1	10 2	7:CA=318000
014	c2914014	ICSAB				29-MAR-2006 15:34	1.0	1.0			1	11 2	7:CA=302300
016	c2914016	SAMPLE	185558-016	111421	Filtra	29-MAR-2006 15:45	20.0	1.0	1		1	2	
017	c2914017	SAMPLE	185558-017	111421	Filtra	29-MAR-2006 15:51	20.0	1.0	1		1	2	
018	c2914018	SAMPLE	185558-018	111421	Filtra	29-MAR-2006 15:57	20.0	1.0	1		1	2	
019	c2914019	SAMPLE	185558-019	111421	Filtra	29-MAR-2006 16:02	20.0	1.0	1		1	2	
020	c2914020	SAMPLE	185558-020	111421	Filtra	29-MAR-2006 16:08	20.0	1.0	1		1	2	
021	c2914021	SAMPLE	185558-022	111421	Filtra	29-MAR-2006 16:14	20.0	1.0	1		1	2	
022	c2914022	SAMPLE	185558-026	111421	Filtra	29-MAR-2006 16:19	20.0	1.0	1		1	2	
023	c2914023	SAMPLE	185558-027	111421	Filtra	29-MAR-2006 16:25	20.0	1.0	1		1	2	
024	c2914024	CCV				29-MAR-2006 16:31	1.0	1.0	2		1	12 2	
026	c2914026	CCB				29-MAR-2006 16:42	1.0	1.0			1	2	
027	c2914027	ICSA				29-MAR-2006 16:48	1.0	1.0			1	10 2	7:CA=319100
028	c2914028	ICSAB				29-MAR-2006 16:53	1.0	1.0			1	11 2	7:CA=302500

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897

Analyst: [signature] Date: 3/29/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56128787001
Units : ug/L

Date : 30-MAR-2006 10:39
X Axis : R

Reviewer: ---
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	c3010004	56128787004	CS1	30-MAR-2006 10:45	S2889
L2	c3010005	56128787005	CS2	30-MAR-2006 10:50	S2890
L3	c3010006	56128787006	CS3	30-MAR-2006 10:56	S2891
L4	c3010007	56128787007	CS4	30-MAR-2006 11:01	S2892
L5	c3010008	56128787008	CS5	30-MAR-2006 11:07	S2886
L6	c3010009	56128787009	CS6	30-MAR-2006 11:13	S2887

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		2.6832	27.323	0.4943	0.3959	0.4017	BLNK	-3.1794	2.54139		6.2596	**0.838**	0.995	r2 ***
Antimony	0.4468	0.3523	0.2857	0.2350	0.2395	0.2413	BLNK	-0.2981	4.15873		0.3001	1.000	0.995	
Arsenic		0.4905	0.4400	0.3928	0.3850	0.3851	BLNK	-0.1318	2.59867		0.4187	1.000	0.995	
Barium	0.0908	0.0930	0.0892	0.0826	0.0844	0.0851	BLNK	-0.0383	11.7750		0.0875	1.000	0.995	
Beryllium	0.1405	0.1337	0.1386	0.1271	0.1344	0.1352	BLNK	-0.0119	7.40595		0.1349	1.000	0.995	
Cadmium	0.6424	0.4783	0.4235	0.3620	0.3519	0.3486	BLNK	-0.1751	2.86617		0.4344	1.000	0.995	
Calcium		0.0429	0.0576	0.0162	0.0166	0.0163	BLNK	-77.555	61.5613		0.0299	1.000	0.995	701
Chromium		4.7471	3.7289	2.6914	2.5458	2.7279	BLNK	-0.3924	0.37245		3.2882	0.999	0.995	
Cobalt	2.9947	3.0056	2.8947	2.7859	2.7096	2.8558	BLNK	-0.0233	0.35385		2.8744	0.999	0.995	
Copper		0.9528	0.8452	0.7185	0.6852	0.6758	BLNK	-0.1615	1.47684		0.7755	1.000	0.995	
Iron		0.1242	0.2074	0.0710	0.0727	0.0708	BLNK	-36.360	14.0740		0.1092	1.000	0.995	
Lead	0.9822	0.9008	0.8867	0.8499	0.8708	0.8530	BLNK	-0.0437	1.16783		0.8906	1.000	0.995	
Magnesium		0.0532	0.0837	0.0490	0.0514	0.0516	BLNK	-3.8368	19.4040		0.0578	1.000	0.995	
Manganese	6.6880	5.1481	4.3520	3.4405	3.3422	3.4745	BLNK	-0.2121	0.29040		4.4076	1.000	0.995	
Molybdenum		0.8343	1.5460	0.6751	0.6738	0.6742	BLNK	-0.1225	1.48450		0.8807	1.000	0.995	
Nickel	1.2137	0.9511	0.7760	0.6334	0.5978	0.5928	BLNK	-0.1648	1.68545		0.7941	1.000	0.995	
Potassium		2.1902	1.7340	0.5959	0.5113	0.5055	BLNK	-146.61	1.99074		1.1074	1.000	0.995	
Selenium		0.0716	0.0412	0.0242	0.0226	0.0225	BLNK	-0.6933	44.6422		0.0364	1.000	0.995	
Silver	2.4456	2.0223	1.8605	1.7132	1.6790	1.6568	BLNK	-0.1137	0.60234		1.8962	1.000	0.995	
Sodium		0.5951	1.5218	0.5253	0.5029	0.5088	BLNK	-14.182	1.97148		0.7308	1.000	0.995	
Thallium		0.6607	0.6142	0.5963	0.6218	0.6610	BLNK	-0.0495	1.53165		0.6308	0.999	0.995	
Vanadium		3.7792	3.3446	2.9694	2.9240	3.2379	BLNK	-0.1671	0.31532		3.2510	0.997	0.995	
Zinc		1.6320	1.3190	0.4787	0.4041	0.3962	BLNK	-1.5533	2.53708		0.8460	1.000	0.995	

r2=ICAL r^2 failure

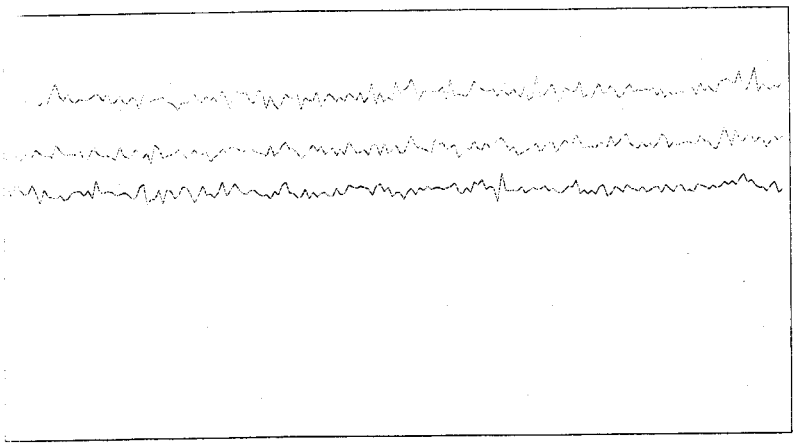
BLNK=Y=aX+[blank]

Instrument amount = a0 + response * a1 + response^2 * a2

56128787001

Tune Report

Tune File : ATUNE.U



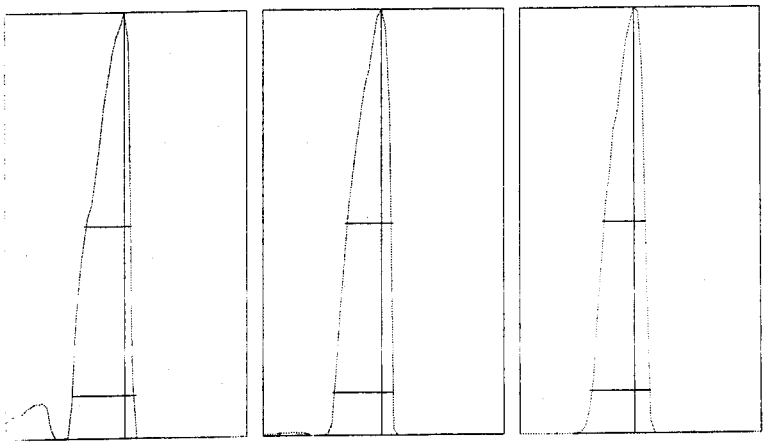
m/z:	7	89	205
Range:	20,000	20,000	20,000
Count:	11,444	16,461	13,911
Mean:	11556.8	16093.5	13522.1
RSD%:	1.93	1.89	1.87
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.37%
Doubly Charged:	70/140	0.78%

Background:

m/z:	7	89	205
Cps:	11.5	6.7	9.7



m/z:	7	89	205
Height:	11,635	16,042	13,690
Axis:	7.00	89.00	204.95
W-50%:	0.60	0.60	0.55
W-10%:	0.800	0.7500	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1220 W	Extract 1:	-156.2 V	AMU Gain:	130
RF Matching:	1.62 V	Extract 2:	-66 V	AMU Offset:	125
Smpl Depth:	6.5 mm	Einzel 1,3:	-122 V	Axis Gain:	0.9998
Torch-H:	0 mm	Einzel 2:	-4 V	Axis Offset:	-0.15
Torch-V:	0.4 mm	Omega Bias:	-46 V	QP Bias:	1.5 V
Carrier Gas:	1.19 L/min	Omega (+):	5 V		
Makeup Gas:	0 L/min	Omega (-):	-3.7 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	5.2 V	Discriminator:	8.7 mV
PeriPump1:	0.1 rps	Plate Bias:	-12.5 V	Analog HV:	1760 V
PeriPump2:	--- rps			Pulse HV:	1240 V
S/C Temp:	2 degC				

Generated : Mar 30, 2006 09:49:13
Printed : Mar 30, 2006 09:49:20

P/A Factor Tuning Report

Acquired:Mar 30 2006 10:07 am

Mass[amu]	Element	P/A Factor
6	Li	0.074210
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.100901
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.105393
45	Sc	0.099089
51	V	0.104685
52	Cr	0.106722
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.109199
57	Fe	0.112477
59	Co	0.112300
60	Ni	Sensitivity too low
63	Cu	0.113761
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.110395
95	Mo	Sensitivity too low
98	Mo	0.109495
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.118965
111	Cd	Sensitivity too low
114	Cd	0.116642
115	In	0.118618
118	(In)	Sensitivity too high
121	Sb	0.118125
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.122788
166	Er	Sensitivity too low

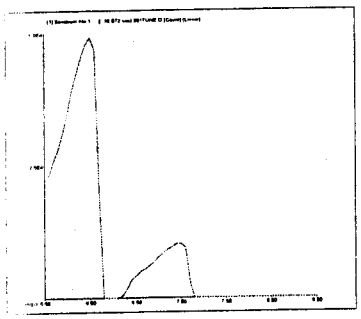
```
205        Tl    0.130809
206      (Pb)    0.126574
207      (Pb)  Sensitivity too low
208        Pb    0.129572
209        Bi    0.127189

===Detector Parameters===
  Discriminator: 8.7 mV
      Analog HV: 1760 V
       Pulse HV: 1240 V
```

6020 QC Tune Report

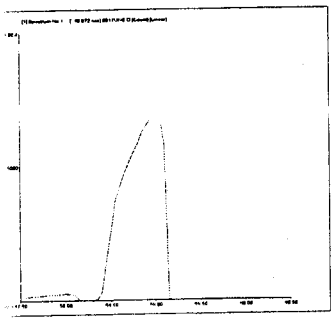
Data File: C:\ICPCHEM\1\DATA\06C3010a.B\001TUNE.D
Date Acquired: Mar 30 2006 10:27 am
Acq. Method: TN6020.M
Operator:
Sample Name: TUN,S2898
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

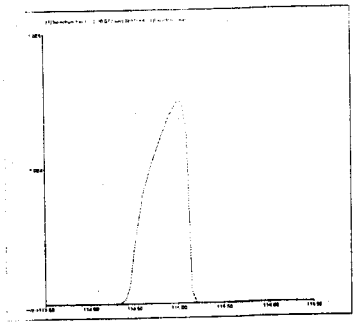
Element	Actual	Required	Flag
7 Li	1.42	5.00	
59 Co	1.18	5.00	
115 In	0.69	5.00	
205 Tl	1.26	5.00	



7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.50
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.00
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.55
Required: 0.90
Flag:



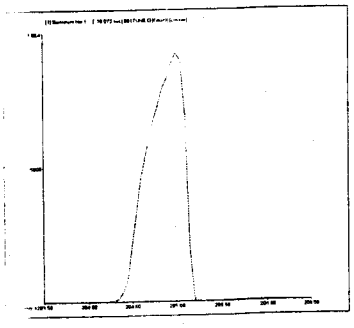
115 In

Mass Calib.

Actual:	115.05	
Required:	114.90 -	115.10
Flag:		

Peak Width

Actual:	0.55
Required:	0.90
Flag:	



205 Tl

Mass Calib.

Actual:	205.00	
Required:	204.90 -	205.10
Flag:		

Peak Width

Actual:	0.55
Required:	0.90
Flag:	

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06C3010a.B\002BLNK.D\002BLNK.D#
Date Acquired:	Mar 30 2006 10:33 am
Acq. Method:	60200111.M
Operator:	
Sample Name:	RINSE
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update:	Mar 29 2006 11:00 pm
Sample Type:	6-Blank
Dilution Factor:	1.00

QC Elements

Element	Corr. Conc.	RSD(%)	Raw Conc.	High Limit	Flag
9 Be	-0.0823 ppb	3.85	-0.0823	1.00	
23 Na	1.311 ppb	406.79	1.311	1.00	
26 Mg	2.95 ppb	61.70	2.95	1.00	
27 Al	2.192 ppb	51.92	2.192	1.00	
39 K	-67.86 ppb	1.63	-67.86	1.00	
44 Ca	31.98 ppb	4.90	31.98	1.00	
51 V	-0.06943 ppb	69.54	-0.06943	1.00	
52 Cr	-0.1932 ppb	10.28	-0.1932	1.00	
55 Mn	0.03612 ppb	50.47	0.03612	1.00	
57 Fe	-28.92 ppb	10.20	-28.92	1.00	
59 Co	-0.01871 ppb	23.96	-0.01871	1.00	
60 Ni	0.03277 ppb	56.18	0.03277	1.00	
65 Cu	0.04825 ppb	17.80	0.04825	1.00	
66 Zn	0.3222 ppb	19.40	0.3222	1.00	
75 As	-0.08784 ppb	121.13	-0.08784	1.00	
82 Se	-1.53 ppb	26.19	-1.53	1.00	
95 Mo	0.02943 ppb	61.81	0.02943	1.00	
109 Ag	0.07167 ppb	9.56	0.07167	1.00	
111 Cd	0.0189 ppb	69.63	0.0189	1.00	
121 Sb	0.118 ppb	13.39	0.118	1.00	
137 Ba	-0.02461 ppb	38.02	-0.02461	1.00	
205 Tl	-0.08871 ppb	6.23	-0.08871	1.00	
208 Pb	-0.01224 ppb	62.01	-0.01224	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	456216.66	1.29	---	#VALUE!	80 - 120	
45 Sc	445723.31	0.48	---	#VALUE!	80 - 120	
72 Ge	91478.45	0.42	---	#VALUE!	80 - 120	
115 In	614199.13	0.80	---	#VALUE!	80 - 120	
209 Bi	551067.75	0.64	---	#VALUE!	80 - 120	

ISTD Ref File : ---

4 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes:	Fail
ISTD:	Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06C3010a.B\003CAL
Date Acquired: Mar 30 2006 10:39 am
Operator:
Sample Name: std-blk
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 29 2006 11:00 pm
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	451066.59	P	3611.00	0.80
9	Be	14.44	P	1.93	13.33
23	Na	63298.88	P	3117.00	4.92
26	Mg	1740.00	P	153.10	8.80
27	Al	11008.89	P	418.60	3.80
39	K	648011.13	P	11700.00	1.81
44	Ca	11084.73	P	50.36	0.45
45	Sc	439947.69	P	1570.00	0.36
51	V	964.05	P	249.80	25.91
52	Cr	1915.56	P	65.77	3.43
55	Mn	1327.78	P	66.69	5.02
57	Fe	4697.78	P	181.20	3.86
59	Co	120.00	P	10.00	8.33
60	Ni	177.78	P	34.69	19.51
65	Cu	198.88	P	8.39	4.22
66	Zn	1113.33	P	63.33	5.69
72	Ge	90912.45	P	286.80	0.32
75	As	92.14	P	56.66	61.50
82	Se	28.22	P	8.06	28.58
95	Mo	150.00	P	34.80	23.20
109	Ag	343.33	P	12.02	3.50
111	Cd	111.07	P	10.40	9.36
115	In	614533.69	P	1783.00	0.29
121	Sb	881.11	P	63.10	7.16
137	Ba	40.00	P	14.53	36.33
205	Tl	356.67	P	41.63	11.67
208	Pb	413.33	P	52.92	12.80
209	Bi	552591.13	P	4411.00	0.80

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C3010a.B\004CALI.D\004CALI.D#
Date Acquired: Mar 30 2006 10:45 am
Operator:
Sample Name: CS1,S2889
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 30 2006 10:41 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	460153.31	P	3155.00	0.69
9 Be	323.33	P	40.96	12.67
23 Na	155260.00	P	1392.00	0.90
26 Mg	12503.33	P	414.60	3.32
27 Al	10925.56	P	360.40	3.30
39 K	859046.00	A	18400.00	2.14
44 Ca	15839.85	P	324.40	2.05
45 Sc	468123.31	P	1902.00	0.41
51 V	2417.03	P	648.90	26.85
52 Cr	3264.44	P	31.68	0.97
55 Mn	3196.67	P	112.70	3.53
57 Fe	8064.44	P	200.60	2.49
59 Co	1431.11	P	61.49	4.30
60 Ni	580.00	P	20.82	3.59
65 Cu	619.95	P	35.28	5.69
66 Zn	1471.05	P	47.88	3.25
72 Ge	95597.11	P	692.00	0.72
75 As	315.48	P	70.72	22.42
82 Se	60.44	P	21.35	35.32
95 Mo	448.89	P	43.38	9.66
109 Ag	1168.89	P	15.03	1.29
111 Cd	306.90	P	30.94	10.08
115 In	636107.31	P	2047.00	0.32
121 Sb	1421.11	P	107.30	7.55
137 Ba	288.89	P	13.88	4.80
205 Tl	1992.22	P	102.40	5.14
208 Pb	2734.44	P	75.15	2.75
209 Bi	556744.38	P	2146.00	0.39

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	460153.31	0.69	451066.66	102.0	80 - 120	

45	Sc	468123.31	0.41	439947.75	106.4	80 -	120
72	Ge	95597.12	0.72	90912.45	105.2	80 -	120
115	In	636107.25	0.32	614533.75	103.5	80 -	120
209	Bi	556744.38	0.39	552591.06	100.8	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C3010a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C3010a.B\005CALI.D\005CALI.D#
Date Acquired: Mar 30 2006 10:50 am
Operator:
Sample Name: CS2,S2890
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 30 2006 10:46 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	489208.09	M	68100.00	13.92
9 Be	650.00	P	48.42	7.45
23 Na	292248.91	P	36010.00	12.32
26 Mg	26138.89	P	3203.00	12.25
27 Al	13191.11	P	1844.00	13.98
39 K	1073540.00	A	101200.00	9.43
44 Ca	21037.27	P	2109.00	10.03
45 Sc	490442.19	P	50460.00	10.29
51 V	3786.98	P	466.00	12.31
52 Cr	4752.22	P	532.30	11.20
55 Mn	5147.78	P	457.70	8.89
57 Fe	12432.22	P	1273.00	10.24
59 Co	3014.44	P	418.10	13.87
60 Ni	953.33	P	124.10	13.02
65 Cu	953.22	P	92.60	9.71
66 Zn	1628.76	P	100.90	6.19
72 Ge	100018.70	P	9057.00	9.06
75 As	490.78	P	51.65	10.52
82 Se	72.00	P	15.53	21.57
95 Mo	836.67	P	115.50	13.81
109 Ag	2022.22	P	192.80	9.53
111 Cd	477.97	P	48.40	10.13
115 In	652494.00	P	40820.00	6.26
121 Sb	2297.78	P	128.90	5.61
137 Ba	604.44	P	39.49	6.53
205 Tl	3740.00	P	155.30	4.15
208 Pb	5102.22	P	213.20	4.18
209 Bi	566356.63	P	19190.00	3.39

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	489208.09	13.92	451066.66	108.5	80 - 120	

45	Sc	490442.22	10.29	439947.75	111.5	80 -	120
72	Ge	100018.66	9.06	90912.45	110.0	80 -	120
115	In	652494.06	6.26	614533.75	106.2	80 -	120
209	Bi	566356.63	3.39	552591.06	102.5	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C3010a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C3010a.B\006CALI.D\006CALI.D#
Date Acquired: Mar 30 2006 10:56 am
Operator:
Sample Name: CS3,S2891
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 30 2006 10:52 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	511158.91	P	7648.00	1.50
9	Be	1416.67	P	20.28	1.43
23	Na	1545605.00	A	20060.00	1.30
26	Mg	84987.78	P	499.60	0.59
27	Al	277512.19	P	2074.00	0.75
39	K	1761157.00	A	21370.00	1.21
44	Ca	58494.14	P	922.70	1.58
45	Sc	507832.19	P	1030.00	0.20
51	V	6957.90	P	296.70	4.26
52	Cr	7757.78	P	91.43	1.18
55	Mn	9054.44	P	118.80	1.31
57	Fe	43141.11	P	376.50	0.87
59	Co	6022.22	P	142.10	2.36
60	Ni	1614.44	P	30.79	1.91
65	Cu	1758.52	P	45.25	2.57
66	Zn	2744.02	P	251.00	9.15
72	Ge	104024.00	P	339.70	0.33
75	As	915.43	P	55.60	6.07
82	Se	85.56	P	34.02	39.76
95	Mo	3216.67	P	119.20	3.71
109	Ag	3871.11	P	143.50	3.71
111	Cd	880.82	P	75.48	8.57
115	In	674148.69	P	2120.00	0.31
121	Sb	3851.11	P	165.30	4.29
137	Ba	1203.33	P	43.72	3.63
205	Tl	7072.22	P	94.30	1.33
208	Pb	10208.89	P	53.89	0.53
209	Bi	575697.69	P	4498.00	0.78

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	511158.88	1.50	451066.66	113.3	80 - 120	

45	Sc	507832.22	0.20	439947.75	115.4	80 -	120
72	Ge	104024.00	0.33	90912.45	114.4	80 -	120
115	In	674148.69	0.31	614533.75	109.7	80 -	120
209	Bi	575697.75	0.78	552591.06	104.2	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C3010a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C3010a.B\007CALI.D\007CALI.D#
Date Acquired: Mar 30 2006 11:01 am
Operator:
Sample Name: CS4,S2892
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 30 2006 10:57 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	520353.31	P	10960.00	2.11
9 Be	13227.78	P	620.00	4.69
23 Na	5449143.00	A	43060.00	0.79
26 Mg	508558.91	P	8247.00	1.62
27 Al	51278.89	P	874.10	1.70
39 K	6181831.00	A	71470.00	1.16
44 Ca	168243.41	P	1462.00	0.87
45 Sc	518716.59	P	4599.00	0.89
51 V	62809.52	P	886.60	1.41
52 Cr	56928.88	P	543.90	0.96
55 Mn	72771.11	P	185.50	0.25
57 Fe	150150.00	P	1655.00	1.10
59 Co	58925.55	P	200.10	0.34
60 Ni	13396.67	P	286.00	2.13
65 Cu	15200.03	P	522.90	3.44
66 Zn	10127.46	P	271.50	2.68
72 Ge	105762.40	P	821.90	0.78
75 As	8309.53	P	110.40	1.33
82 Se	511.56	P	22.36	4.37
95 Mo	14281.11	P	317.90	2.23
109 Ag	36235.56	P	281.50	0.78
111 Cd	7655.14	P	206.40	2.70
115 In	687007.81	P	6268.00	0.91
121 Sb	32285.56	P	573.90	1.78
137 Ba	11354.44	P	41.14	0.36
205 Tl	70333.33	P	1239.00	1.76
208 Pb	100231.10	P	305.90	0.31
209 Bi	589717.69	P	5995.00	1.02

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	520353.31	2.11	451066.66	115.4	80 - 120	

45	Sc	518716.66	0.89	439947.75	117.9	80 -	120
72	Ge	105762.45	0.78	90912.45	116.3	80 -	120
115	In	687007.81	0.91	614533.75	111.8	80 -	120
209	Bi	589717.75	1.02	552591.06	106.7	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C3010a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C3010a.B\008CALI.D\008CALI.D#
Date Acquired: Mar 30 2006 11:07 am
Operator:
Sample Name: CS5,S2886
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 30 2006 11:03 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	481680.00	P	9041.00	1.88
9	Be	129502.20	P	1698.00	1.31
23	Na	50095620.00	A	378700.00	0.76
26	Mg	5117821.00	A	30150.00	0.59
27	Al	394315.50	P	4557.00	1.16
39	K	50933688.00	A	681400.00	1.34
44	Ca	1651178.00	A	14900.00	0.90
45	Sc	498057.69	P	3651.00	0.73
51	V	603508.13	P	8748.00	1.45
52	Cr	525427.69	P	3454.00	0.66
55	Mn	689812.19	P	7906.00	1.15
57	Fe	1500211.00	A	12710.00	0.85
59	Co	559218.88	P	4220.00	0.75
60	Ni	123382.20	P	999.80	0.81
65	Cu	141428.91	P	1396.00	0.99
66	Zn	83394.41	P	716.90	0.86
72	Ge	103197.60	P	966.60	0.94
75	As	79452.73	P	574.30	0.72
82	Se	4654.67	P	29.63	0.64
95	Mo	139063.30	P	2190.00	1.57
109	Ag	346535.50	P	3854.00	1.11
111	Cd	72626.91	P	298.70	0.41
115	In	654806.13	P	4586.00	0.70
121	Sb	313697.81	P	2060.00	0.66
137	Ba	110535.60	P	982.90	0.89
205	Tl	705386.63	P	2564.00	0.36
208	Pb	987857.81	P	11480.00	1.16
209	Bi	567218.88	P	5774.00	1.02

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	481679.97	1.88	451066.66	106.8	80 - 120	

45	Sc	498057.75	0.73	439947.75	113.2	80 -	120
72	Ge	103197.55	0.94	90912.45	113.5	80 -	120
115	In	654806.06	0.70	614533.75	106.6	80 -	120
209	Bi	567218.88	1.02	552591.06	102.6	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C3010a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C3010a.B\009CALI.D\009CALI.D#
Date Acquired: Mar 30 2006 11:13 am
Operator:
Sample Name: CS6,S2887
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 30 2006 11:09 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	445835.59	P	7220.00	1.62
9	Be	241128.91	P	5163.00	2.14
23	Na	93144232.00	A	2607000.00	2.80
26	Mg	9443941.00	A	179900.00	1.90
27	Al	735174.38	P	11040.00	1.50
39	K	92548680.00	A	2685000.00	2.90
44	Ca	2976262.00	A	83610.00	2.81
45	Sc	457664.41	P	12590.00	2.75
51	V	1227975.00	A	37710.00	3.07
52	Cr	1034529.00	A	30910.00	2.99
55	Mn	1317568.00	A	31670.00	2.40
57	Fe	2686593.00	A	80240.00	2.99
59	Co	1083082.00	A	35170.00	3.25
60	Ni	224823.30	P	6623.00	2.95
65	Cu	256262.59	P	5025.00	1.96
66	Zn	150219.41	P	2587.00	1.72
72	Ge	94802.67	P	2330.00	2.46
75	As	146034.70	P	2497.00	1.71
82	Se	8523.55	P	194.20	2.28
95	Mo	255660.00	P	6004.00	2.35
109	Ag	628184.38	P	9445.00	1.50
111	Cd	132183.00	P	2941.00	2.22
115	In	592521.31	P	6768.00	1.14
121	Sb	571806.63	P	7804.00	1.36
137	Ba	201661.09	P	1875.00	0.93
205	Tl	1391649.00	A	9514.00	0.68
208	Pb	1795703.00	P	2613.00	0.15
209	Bi	526318.88	P	3207.00	0.61

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	445835.56	1.62	451066.66	98.8	80 - 120	

45	Sc	457664.41	2.75	439947.75	104.0	80 -	120
72	Ge	94802.66	2.46	90912.45	104.3	80 -	120
115	In	592521.31	1.14	614533.75	96.4	80 -	120
209	Bi	526318.88	0.61	552591.06	95.2	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C3010a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Summary

Calibration : C:\ICPCHEM\1\CALIB\60200111.C
Last Calib: Mar 30, 2006 11:50
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\06c3010a.b\003calb.d\	003calb.d#	Mar 30 2006 10:39 am
2	...hem\1\data\06c3010a.b\004cali.d\	004cali.d#	Mar 30 2006 10:45 am
3	...hem\1\data\06c3010a.b\005cali.d\	005cali.d#	Mar 30 2006 10:50 am
4	...hem\1\data\06c3010a.b\006cali.d\	006cali.d#	Mar 30 2006 10:56 am
5	...hem\1\data\06c3010a.b\007cali.d\	007cali.d#	Mar 30 2006 11:01 am
6	...hem\1\data\06c3010a.b\008cali.d\	008cali.d#	Mar 30 2006 11:07 am
7	...hem\1\data\06c3010a.b\009cali.d\	009cali.d#	Mar 30 2006 11:13 am
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	Excluded	---	ppb
Be	9	6	Y = 1.350E-1*X +1.602E-3(blank)	---	ppb
Na	23	45	Y = 5.072E-1*X +7.193E+0(blank)	---	ppb
Mg	25	45	Excluded	---	ppb
Mg	26	45	Y = 5.154E-2*X +1.977E-1(blank)	---	ppb
Al	27	45	Y = 3.935E-1*X +1.251E+0(blank)	---	ppb
K	39	45	Y = 5.023E-1*X +7.365E+1(blank)	---	ppb
Ca	43	45	Excluded	---	ppb
Ca	44	45	Y = 1.624E-2*X +1.260E+0(blank)	---	ppb
Sc	45	---	Excluded	---	ppb
V	51	72	Y = 3.171E+0*X +5.300E-1(blank)	---	ppb
Cr	52	72	Y = 2.685E+0*X +1.054E+0(blank)	---	ppb
Cr	53	72	Excluded	---	ppb
Fe	54	72	Excluded	---	ppb
Mn	55	72	Y = 3.444E+0*X +7.302E-1(blank)	---	ppb
Fe	57	72	Y = 7.105E-2*X +2.583E+0(blank)	---	ppb
Co	59	72	Y = 2.826E+0*X +6.599E-2(blank)	---	ppb
Ni	60	72	Y = 5.933E-1*X +9.775E-2(blank)	---	ppb
Cu	63	72	Excluded	---	ppb
Cu	65	72	Y = 6.771E-1*X +1.094E-1(blank)	---	ppb
Zn	66	72	Y = 3.942E-1*X +6.122E-1(blank)	---	ppb
Ge	72	---	Excluded	---	ppb
As	75	72	Y = 3.848E-1*X +5.071E-2(blank)	---	ppb
(As)	77	72	Excluded	---	ppb
Se	82	72	Y = 2.240E-2*X +1.553E-2(blank)	---	ppb
(As)	83	72	Excluded	---	ppb
(Ca)	88	72	Excluded	---	ppb
Y	89	72	Excluded	---	ppb
Mo	95	72	Y = 6.736E-1*X +8.251E-2(blank)	---	ppb
Mo	98	72	Excluded	---	ppb
(Mo)	99	72	Excluded	---	ppb
(Cd)	106	72	Excluded	---	ppb
(Cd)	108	72	Excluded	---	ppb
Ag	109	72	Y = 1.660E+0*X +1.888E-1(blank)	---	ppb
Cd	111	72	Y = 3.489E-1*X +6.109E-2(blank)	---	ppb
Cd	114	72	Excluded	---	ppb
In	115	---	Excluded	---	ppb
(In)	118	---	Excluded	---	ppb
Sb	121	115	Y = 2.405E-1*X +7.168E-2(blank)	---	ppb
Ba	135	115	Excluded	---	ppb
Ba	137	115	Y = 8.493E-2*X +3.256E-3(blank)	---	ppb
Tb	159	---	Excluded	---	ppb
Er	166	115	Excluded	---	ppb
Tl	205	209	Y = 6.529E-1*X +3.229E-2(blank)	---	ppb
(Pb)	206	209	Excluded	---	ppb
(Pb)	207	209	Excluded	---	ppb
Pb	208	209	Y = 8.563E-1*X +3.742E-2(blank)	---	ppb
Bi	209	---	Excluded	---	ppb
Th	232	209	--------	---	ppb
U	238	209	--------	---	ppb

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56128787010 File : c3010010 Time : 30-MAR-2006 11:18
Cal : 56128787001 Caldate: 30-MAR-2006
Standards: S2895, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	6.2596	0.3885	100.0	95.55	ug/L	-4	10	
Antimony	0.3001	0.2347	100.0	97.30	ug/L	-3	10	
Arsenic	0.4187	0.3809	100.0	98.84	ug/L	-1	10	
Barium	0.0875	0.0828	100.0	97.46	ug/L	-3	10	
Beryllium	0.1349	0.1306	100.0	96.70	ug/L	-3	10	
Cadmium	0.4344	0.3552	100.0	101.6	ug/L	2	10	
Calcium	0.0299	0.0161	10000	9824	ug/L	-2	10	
Chromium	3.2882	2.4870	100.0	92.24	ug/L	-8	10	
Cobalt	2.8744	2.6456	100.0	93.59	ug/L	-6	10	
Copper	0.7755	0.6766	100.0	99.76	ug/L	0	10	
Iron	0.1092	0.0707	10000	9910	ug/L	-1	10	
Lead	0.8906	0.8471	100.0	98.89	ug/L	-1	10	
Magnesium	0.0578	0.0491	10000	9531	ug/L	-5	10	
Manganese	4.4076	3.2594	100.0	94.44	ug/L	-6	10	
Molybdenum	0.8807	0.6708	100.0	99.46	ug/L	-1	10	
Nickel	0.7941	0.5810	100.0	97.76	ug/L	-2	10	
Potassium	1.1074	0.4933	10000	9673	ug/L	-3	10	
Selenium	0.0364	0.0226	100.0	100.4	ug/L	0	10	
Silver	1.8962	1.6860	100.0	101.4	ug/L	1	10	
Sodium	0.7308	0.4868	10000	9583	ug/L	-4	10	
Thallium	0.6308	0.6096	100.0	93.33	ug/L	-7	10	
Vanadium	3.2510	2.8504	100.0	89.71	ug/L	-10	10	
Zinc	0.8460	0.3986	100.0	99.57	ug/L	0	10	

ISTD (ICALBLK c3010003)	ICALBLK Abund	Abund	%Drift
Lithium	451067	460174	2.02
Scandium	439948	477919	8.63
Germanium	90912	99107	9.01
Indium	614534	644372	4.86
Bismuth	552591	572222	3.55

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56128787024 File : c3010024 Time : 30-MAR-2006 12:36
Cal : 56128787001 Caldate: 30-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	6.2596	0.3731	150.0	139.1	ug/L	-7	10	r2 ***
Antimony	0.3001	0.2424	150.0	150.9	ug/L	1	10	
Arsenic	0.4187	0.3958	150.0	154.1	ug/L	3	10	
Barium	0.0875	0.0839	150.0	148.2	ug/L	-1	10	
Beryllium	0.1349	0.1405	150.0	156.1	ug/L	4	10	
Cadmium	0.4344	0.3374	150.0	144.9	ug/L	-3	10	
Calcium	0.0299	0.0161	15000	14820	ug/L	-1	10	
Chromium	3.2882	2.4587	150.0	137.0	ug/L	-9	10	
Cobalt	2.8744	2.6182	150.0	138.9	ug/L	-7	10	
Copper	0.7755	0.6612	150.0	146.3	ug/L	-2	10	
Iron	0.1092	0.0706	15000	14880	ug/L	-1	10	
Lead	0.8906	0.8157	150.0	142.9	ug/L	-5	10	
Magnesium	0.0578	0.0482	15000	14030	ug/L	-6	10	
Manganese	4.4076	3.3847	150.0	147.2	ug/L	-2	10	
Molybdenum	0.8807	0.6546	150.0	145.6	ug/L	-3	10	
Nickel	0.7941	0.5779	150.0	145.9	ug/L	-3	10	
Potassium	1.1074	0.4983	15000	14730	ug/L	-2	10	
Selenium	0.0364	0.0221	150.0	147.3	ug/L	-2	10	
Silver	1.8962	1.6140	150.0	145.7	ug/L	-3	10	
Sodium	0.7308	0.4802	15000	14180	ug/L	-5	10	
Thallium	0.6308	0.6245	150.0	143.4	ug/L	-4	10	
Vanadium	3.2510	3.0620	150.0	144.7	ug/L	-4	10	
Zinc	0.8460	0.3978	150.0	149.8	ug/L	0	10	

ISTD (ICALBLK c3010003)	ICALBLK Abund	Abund	%Drift
Lithium	451067	384000	-14.87
Scandium	439948	441840	0.43
Germanium	90912	94166	3.58
Indium	614534	577107	-6.09
Bismuth	552591	507828	-8.10

r2=ICAL r^2 failure

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56128787032 File : c3010032 Time : 30-MAR-2006 13:21
Cal : 56128787001 Caldate: 30-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	6.2596	0.3687	150.0	137.4	ug/L	-8	10	r2 ***
Antimony	0.3001	0.2390	150.0	148.8	ug/L	-1	10	
Arsenic	0.4187	0.3869	150.0	150.7	ug/L	0	10	
Barium	0.0875	0.0837	150.0	147.9	ug/L	-1	10	
Beryllium	0.1349	0.1365	150.0	151.7	ug/L	1	10	
Cadmium	0.4344	0.3377	150.0	145.0	ug/L	-3	10	
Calcium	0.0299	0.0159	15000	14570	ug/L	-3	10	
Chromium	3.2882	2.3967	150.0	133.5	ug/L	**-11**	10	c- ***
Cobalt	2.8744	2.5529	150.0	135.5	ug/L	-10	10	
Copper	0.7755	0.6403	150.0	141.7	ug/L	-6	10	
Iron	0.1092	0.0675	15000	14220	ug/L	-5	10	
Lead	0.8906	0.8170	150.0	143.1	ug/L	-5	10	
Magnesium	0.0578	0.0471	15000	13720	ug/L	-9	10	
Manganese	4.4076	3.1714	150.0	137.9	ug/L	-8	10	
Molybdenum	0.8807	0.6452	150.0	143.5	ug/L	-4	10	
Nickel	0.7941	0.5654	150.0	142.8	ug/L	-5	10	
Potassium	1.1074	0.4862	15000	14370	ug/L	-4	10	
Selenium	0.0364	0.0217	150.0	144.9	ug/L	-3	10	
Silver	1.8962	1.5944	150.0	143.9	ug/L	-4	10	
Sodium	0.7308	0.4688	15000	13850	ug/L	-8	10	
Thallium	0.6308	0.6235	150.0	143.2	ug/L	-5	10	
Vanadium	3.2510	2.8723	150.0	135.7	ug/L	-10	10	
Zinc	0.8460	0.3862	150.0	145.4	ug/L	-3	10	

ISTD (ICALBLK c3010003)	ICALBLK Abund	Abund	%Drift
Lithium	451067	374318	-17.01
Scandium	439948	433786	-1.40
Germanium	90912	94245	3.67
Indium	614534	584522	-4.88
Bismuth	552591	520462	-5.81

=low bias c=CCV r2=ICAL r^2 failure

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56128787011 File : c3010011 Time : 30-MAR-2006 11:24
Cal : 56128787001 Caldate: 30-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	[0.03222]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.02055]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.02706]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.04841]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.04963]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.1010]	0.2500	0.03982	ug/L	!ib
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.4665]	0.5000	0.1891	ug/L	!ib
Silver	[0.02034]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.3743]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c3010003)	ICALBLK Abund	Abund	%Drift
Lithium	451067	445121	-1.32
Scandium	439948	449436	2.16
Germanium	90912	93978	3.37
Indium	614534	631073	2.69
Bismuth	552591	570470	3.24

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56128787026 File : c3010026 Time : 30-MAR-2006 12:48
Cal : 56128787001 Caldate: 30-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.01425]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.01116]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.007671]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.04925]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	0.7456	0.5000	0.1891	ug/L	ib ***
Silver	[0.06175]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.09694]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c3010003)	ICALBLK Abund	Abund	%Drift
Lithium	451067	378500	-16.09
Scandium	439948	421849	-4.11
Germanium	90912	88287	-2.89
Indium	614534	584659	-4.86
Bismuth	552591	516076	-6.61

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56128787034 File : c3010034 Time : 30-MAR-2006 13:33
Cal : 56128787001 Caldate: 30-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.04177]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	0.5926	0.5000	0.1891	ug/L	ib ***
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.08502]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c3010003)	ICALBLK Abund	Abund	%Drift
Lithium	451067	380083	-15.74
Scandium	439948	419991	-4.54
Germanium	90912	90330	-0.64
Indium	614534	590258	-3.95
Bismuth	552591	527164	-4.60

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56128787012 File : c3010012 Time : 30-MAR-2006 11:29
Cal : 56128787001 Caldate: 30-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.278	0.2500	ug/L	
Arsenic	0.7132	0.5000	ug/L	
Barium	0.9986	0.2500	ug/L	
Beryllium	[0.03718]	0.2500	ug/L	
Cadmium	[0.2065]	0.2500	ug/L	
Chromium	1.270	0.5000	ug/L	
Cobalt	2.686	0.2500	ug/L	
Copper	1.728	0.5000	ug/L	
Lead	1.286	0.2500	ug/L	
Manganese	0.9852	0.2500	ug/L	
Nickel	1.521	0.2500	ug/L	
Selenium	0.7356	0.5000	ug/L	
Silver	[0.1302]	0.2500	ug/L	
Thallium	[0.1913]	0.5000	ug/L	
Vanadium	[0.1550]	1.000	ug/L	
Zinc	3.618	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	98740	ug/L	99
Calcium	300000	295700	ug/L	99
Iron	250000	238700	ug/L	95
Magnesium	100000	94780	ug/L	95
Molybdenum	2000	2013	ug/L	101
Potassium	100000	97400	ug/L	97
Sodium	250000	229800	ug/L	92

ISTD (ICALBLK c3010003)	ICALBLK Abund	Abund	%Drift
Lithium	451067	427483	-5.23
Scandium	439948	482478	9.67
Germanium	90912	101079	11.18
Indium	614534	598410	-2.62
Bismuth	552591	494142	-10.58

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56128787013 File : c3010013 Time : 30-MAR-2006 11:35
Cal : 56128787001 Caldate: 30-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	98240	ug/L	-2		
Arsenic	100.0	110.5	ug/L	11	20	
Cadmium	100.0	97.41	ug/L	-3	20	
Calcium	300000	303700	ug/L	1		
Chromium	200.0	201.7	ug/L	1	20	
Cobalt	200.0	204.8	ug/L	2	20	
Copper	200.0	192.5	ug/L	-4	20	
Iron	250000	242000	ug/L	-3		
Magnesium	100000	94050	ug/L	-6		
Manganese	200.0	207.2	ug/L	4	20	
Molybdenum	2000	2065	ug/L	3		
Nickel	200.0	193.3	ug/L	-3	20	
Potassium	100000	99760	ug/L	0		
Selenium	100.0	105.7	ug/L	6	20	
Silver	50.00	48.13	ug/L	-4	20	
Sodium	250000	223700	ug/L	-11		
Vanadium	200.0	206.5	ug/L	3	20	
Zinc	100.0	103.6	ug/L	4	20	

ISTD (ICALBLK c3010003)	ICALBLK Abund	Abund	%Drift
Scandium	439948	454391	3.28
Germanium	90912	97503	7.25

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56128787035 File : c3010035 Time : 30-MAR-2006 13:38
Cal : 56128787001 Caldate: 30-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.016	0.2500	ug/L	
Arsenic	0.9273	0.5000	ug/L	
Barium	1.040	0.2500	ug/L	
Beryllium	[0.04280]	0.2500	ug/L	
Cadmium	[0.1551]	0.2500	ug/L	
Chromium	1.296	0.5000	ug/L	
Cobalt	2.580	0.2500	ug/L	
Copper	1.665	0.5000	ug/L	
Lead	1.183	0.2500	ug/L	
Manganese	0.9943	0.2500	ug/L	
Nickel	1.495	0.2500	ug/L	
Selenium	[0.2303]	0.5000	ug/L	
Silver	[0.06198]	0.2500	ug/L	
Thallium	[0.09984]	0.5000	ug/L	
Vanadium	[0.1984]	1.000	ug/L	
Zinc	3.363	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	95270	ug/L	95
Calcium	300000	292400	ug/L	97
Iron	250000	232500	ug/L	93
Magnesium	100000	90840	ug/L	91
Molybdenum	2000	1939	ug/L	97
Potassium	100000	96630	ug/L	97
Sodium	250000	221300	ug/L	89

ISTD (ICALBLK c3010003)	ICALBLK Abund	Abund	%Drift
Lithium	451067	331641	-26.48
Scandium	439948	411593	-6.45
Germanium	90912	88151	-3.04
Indium	614534	501596	-18.38
Bismuth	552591	438944	-20.57

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56128787036 File : c3010036 Time : 30-MAR-2006 13:44
Cal : 56128787001 Caldate: 30-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	96060	ug/L	-4		
Arsenic	100.0	109.5	ug/L	10	20	
Cadmium	100.0	95.00	ug/L	-5	20	
Calcium	300000	298500	ug/L	-1		
Chromium	200.0	187.6	ug/L	-6	20	
Cobalt	200.0	192.1	ug/L	-4	20	
Copper	200.0	190.2	ug/L	-5	20	
Iron	250000	237800	ug/L	-5		
Magnesium	100000	92130	ug/L	-8		
Manganese	200.0	204.7	ug/L	2	20	
Molybdenum	2000	1999	ug/L	0		
Nickel	200.0	191.1	ug/L	-4	20	
Potassium	100000	97910	ug/L	-2		
Selenium	100.0	102.6	ug/L	3	20	
Silver	50.00	46.66	ug/L	-7	20	
Sodium	250000	224800	ug/L	-10		
Vanadium	200.0	201.2	ug/L	1	20	
Zinc	100.0	101.1	ug/L	1	20	

ISTD (ICALBLK c3010003)	ICALBLK Abund	Abund	%Drift
Scandium	439948	399294	-9.24
Germanium	90912	85274	-6.20

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56128787 Instrument: MET05 Agilent ICP-MS Begun: 30-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	c3010001	TUN				30-MAR-2006 10:27	1.0	1.0				1	
003	c3010003	ICALBLK	std-blk			30-MAR-2006 10:39	1.0	1.0				2	
004	c3010004	ICAL	CS1			30-MAR-2006 10:45	1.0	1.0				3	
005	c3010005	ICAL	CS2			30-MAR-2006 10:50	1.0	1.0				4	
006	c3010006	ICAL	CS3			30-MAR-2006 10:56	1.0	1.0				5	
007	c3010007	ICAL	CS4			30-MAR-2006 11:01	1.0	1.0				6	
008	c3010008	ICAL	CS5			30-MAR-2006 11:07	1.0	1.0				7	
009	c3010009	ICAL	CS6			30-MAR-2006 11:13	1.0	1.0				8	
010	c3010010	ICV				30-MAR-2006 11:18	1.0	1.0			1	9 2	
011	c3010011	ICB				30-MAR-2006 11:24	1.0	1.0			1	2	
012	c3010012	ICSA				30-MAR-2006 11:29	1.0	1.0			1	10 2	7:CA=295700
013	c3010013	ICSAB				30-MAR-2006 11:35	1.0	1.0			1	11 2	11:CA=303700
015	c3010015	BLANK	QC333505	111805	Filtra	30-MAR-2006 11:46	1.0	1.0	1		1	2	
016	c3010016	BS	QC333506	111805	Filtra	30-MAR-2006 11:51	1.0	1.0	1		1	2	
017	c3010017	BSD	QC333507	111805	Filtra	30-MAR-2006 11:57	1.0	1.0	1		1	2	734
018	c3010018	MSS	185843-001	111805	Filtra	30-MAR-2006 12:03	5.0	1.0	6		1	2	4:NA=836800
019	c3010019	SER	QC333510	111805	Filtra	30-MAR-2006 12:08	25.0	1.0			1	2	2:NA=196480
020	c3010020	MSS	185843-001	111805	Filtra	30-MAR-2006 12:14	5.0	1.0	4		1	2	3:MG=119580
021	c3010021	MS	QC333508	111805	Filtra	30-MAR-2006 12:20	5.0	1.0		1	1	2	3:MG=124860
024	c3010024	CCV				30-MAR-2006 12:36	1.0	1.0	1		1	12 2	
026	c3010026	CCB				30-MAR-2006 12:48	1.0	1.0	1		1	2	
027	c3010027	PDS	QC333511	111805	Filtra	30-MAR-2006 12:53	5.0	1.0	1		1	13 2	3:MG=123720
028	c3010028	MSD	QC333509	111805	Filtra	30-MAR-2006 12:59	5.0	1.0	1	1	1	2	3:MG=119740
029	c3010029	SAMPLE	185558-027	111421	Filtra	30-MAR-2006 13:05	1.0	1.0	3		1	2	1:NA=235400
030	c3010030	SAMPLE	185558-016	111421	Filtra	30-MAR-2006 13:10	10.0	1.0	2		1	2	
031	c3010031	SAMPLE	185558-017	111421	Filtra	30-MAR-2006 13:16	10.0	1.0	2		1	2	
032	c3010032	CCV				30-MAR-2006 13:21	1.0	1.0	2		1	12 2	
034	c3010034	CCB				30-MAR-2006 13:33	1.0	1.0	1		1	2	
035	c3010035	ICSA				30-MAR-2006 13:38	1.0	1.0			1	10 2	7:CA=292400
036	c3010036	ICSAB				30-MAR-2006 13:44	1.0	1.0			1	11 2	9:CA=298500

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: MeWu Date: 3/30/06

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

equence Date: 24-MAR-2006 ICALBLK Filename: c2415003
Sequence: 56120449 (c2415) Date Analyzed: 24-MAR-2006
nstrument ID: MET05 Time Analyzed: 15:41

		IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD		988200	562292	180440	1368410	1333700	2209951
LOWER LIMIT		296460	168688	54132	410523	400110	662985
UPPER LIMIT		1185840	674751	216528	1642092	1600440	2651941

TYPE	SAMPLE	#					
ICB		012	969137	523398	172708	1267032	1243505	2044909
ICSA		013	779542	491304	146225	1095335	938748	1884957
BLANK	QC332055	017	933067	541233	170988	1308727	1286688	2105243
BS	QC332056	018	897053	488852	154003	1104449	1037053	1781347
MSS	185457-016	020	819406	482531	141807	1030667	900572	1765286
SER	QC332060	021	936674	522697	165046	1193875	1135870	2009167
MSS	185457-016	022	972773	540838	172188	1259288	1198188	2057726
SER	QC332060	023	1001688	538308	173595	1273316	1243303	2040529
CCV		024	974542	535254	170147	1196955	1140941	1953272
CCB		026	980518	523143	167279	1239501	1206515	1978534
MSS	185457-016	027	806947	461082	138153	997944	862388	1715177
MS	QC332058	028	826277	474200	140445	992258	872644	1716779
MSD	QC332059	029	805980	471418	137778	993201	870711	1722383
PDS	QC332061	030	821766	471081	136868	982461	847810	1690964
MS	QC332058	031	957831	515238	167168	1211204	1164650	1958101
MSD	QC332059	032	969156	521671	167835	1222229	1164139	1964258
PDS	QC332061	033	952804	517857	166433	1203865	1172058	1960401
BSD	QC332057	035	933562	484101	150456	1065375	995106	1724214
SAMPLE	185457-001	036	819884	451233	138146	983996	884557	1652640
SAMPLE	185457-002	037	895816	484359	146671	1063074	956973	1777156
CCV		039	953180	509681	163182	1155967	1119152	1914650
CCB		041	942974	497013	160729	1193739	1163252	1873462
SAMPLE	185457-005	042	806019	437862	124970	841256	747042	1495271
SAMPLE	185457-006	043	868741	454569	129494	890825	773937	1527506
SAMPLE	185457-007	044	874780	457021	134590	956278	829011	1564727
SAMPLE	185457-008	045	867298	452567	133313	938923	819560	1557071

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= Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

equence Date: 24-MAR-2006
Sequence: 56120449 (c2415)
nstrument ID: MET05

ICALBLK Filename: c2415003
Date Analyzed: 24-MAR-2006
Time Analyzed: 15:41

TYPE	SAMPLE	#						
SAMPLE	185457-001	046	983059	527842	167721	1252890	1206212	2000194
SAMPLE	185457-002	047	992755	517129	165457	1223679	1185281	1966397
SAMPLE	185457-005	048	969374	513081	163668	1198046	1153775	1947077
SAMPLE	185457-006	049	976815	507042	162749	1185074	1148658	1944004
SAMPLE	185457-007	050	944914	495280	160109	1184926	1158760	1906340
SAMPLE	185457-008	051	962775	502014	162041	1208567	1178110	1934641
CCV		053	938741	499396	159991	1139949	1112291	1894655
CCB		055	948372	501028	161896	1226800	1216616	1962262
ICSA		056	754441	444889	133804	996236	855786	1688332
BLANK	QC331831	060	887221	482077	154230	1177455	1164861	1857360
BS	QC331832	061	876773	464330	145417	1051301	994238	1682322
BSD	QC331833	062	861659	464521	145047	1051915	995756	1681989
MSS	185408-008	064	853151	464363	142451	1050691	994561	1683203
SER	QC331838	065	881915	471430	151282	1126374	1129253	1816009
MS	QC331836	066	822095	441946	138016	984556	943918	1614616
MSD	QC331837	067	822840	449326	139344	997096	944252	1634199
CCV		069	867540	477594	152734	1090823	1069936	1793122
CCB		071	892991	474552	152380	1132829	1123713	1801393
PDS	QC331839	073	821562	448903	137575	984025	903300	1587489
MSS	185408-010	074	828272	445228	139365	1018084	941147	1653171
MS	QC331834	075	793752	442179	137015	990889	921313	1652132
MSD	QC331835	076	804277	441422	136827	996343	925088	1657566
MSS	185408-008	077	862998	471269	151144	1147421	1140857	1835833
SER	QC331838	078	872665	465123	150431	1144231	1142246	1828186
MS	QC331836	079	878168	467273	150447	1143427	1120530	1803292
MSD	QC331837	080	885873	466337	150048	1122809	1128941	1815370
PDS	QC331839	081	876342	471766	152091	1151606	1142680	1842286
CCV		083	864072	469597	149631	1083146	1052352	1762150
CCB		085	872491	466362	149948	1134348	1121464	1786827
MSS	185408-010	086	862140	464602	150047	1119899	1110489	1790612
MS	QC331834	087	870795	464299	150027	1138492	1115658	1798186
MSD	QC331835	088	870914	465487	150382	1135587	1128329	1808531

= Outside QC Limits

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

equence Date: 24-MAR-2006
Sequence: 56120449 (c2415)
nstrument ID: MET05

ICALBLK Filename: c2415003
Date Analyzed: 24-MAR-2006
Time Analyzed: 15:41

TYPE	SAMPLE	#						
SAMPLE	185408-006	089	779910	434417	134605	1000537	937490	1673153
SAMPLE	185408-007	090	778389	436320	135509	1011547	967045	1680540
SAMPLE	185408-009	091	792816	445703	138222	1062007	1040861	1765889
SAMPLE	185408-011	092	746313	439046	136117	1052751	1007617	1778780
SAMPLE	185408-006	093	804469	479062	152131	1214168	1224563	1988922
SAMPLE	185408-007	094	814321	478859	152621	1216094	1217743	1992688
SAMPLE	185408-009	095	807417	471113	149594	1202599	1210871	1972224
CCV		097	850311	475066	150588	1119011	1086373	1851792
CCB		099	839745	456637	148479	1142762	1144155	1848352
SAMPLE	185408-011	100	815768	458486	148813	1155942	1139220	1851356
SAMPLE	185463-001	101	757363	425854	135127	1041515	1030825	1710206
SAMPLE	185463-001	102	797634	457489	147108	1164342	1183790	1901204
BLANK	QC331981	104	802593	457467	146054	1159678	1170443	1890366
BS	QC331982	105	788112	430226	136577	1002517	976562	1654540
BSD	QC331983	106	817709	434809	137135	1018464	964466	1655119
CCV		107	839407	458026	146831	1077183	1042410	1762605
CCB		109	841646	456716	146645	1137654	1126462	1813376
MSS	185408-002	110	726140	416296	125819	924997	844072	1585680
SER	QC331986	111	795657	447318	142353	1092646	1059218	1791620
MS	QC331984	112	721020	417512	124987	932106	835838	1585923
MSD	QC331985	113	729081	422214	126492	943589	843430	1608086
PDS	QC331987	114	732944	421383	125876	941699	837344	1582769
MSS	185408-002	115	821297	459594	146709	1134817	1121528	1815054
SER	QC331986	116	802150	454932	146103	1154993	1146332	1857097
MS	QC331984	117	834463	457260	146268	1124000	1102511	1795529
MSD	QC331985	118	821924	446850	144312	1095886	1083850	1765997
PDS	QC331987	119	827809	454117	144977	1098643	1077590	1760144
CCV		121	806356	440073	142136	1039855	1008839	1706144
CCB		123	830886	449947	144623	1113418	1102799	1771621
SAMPLE	185408-001	124	709028	417409	127520	979206	893168	1638904
SAMPLE	185408-003	125	701819	423482	128463	1001801	915296	1711931
SAMPLE	185408-004	126	733003	414004	126424	953265	870120	1587071

= Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

equence Date: 24-MAR-2006
Sequence: 56120449 (c2415)
nstrument ID: MET05

ICALBLK Filename: c2415003
Date Analyzed: 24-MAR-2006
Time Analyzed: 15:41

TYPE	SAMPLE	#						
SAMPLE	185408-005	127	739588	410428	124955	934629	848657	1545016
SAMPLE	185408-001	128	822966	448691	144346	1110968	1103256	1774551
SAMPLE	185408-003	129	811888	443553	142886	1100351	1082951	1766579
SAMPLE	185408-004	130	786395	431762	137826	1041526	1040155	1673719
SAMPLE	185408-005	131	828836	452710	144081	1094699	1080384	1759164
CCV		133	813402	443206	140547	1028681	979894	1681265
CCB		135	841360	445097	143634	1086631	1083950	1738890
ICSA		137	674836	406723	121976	887703	772371	1536515
SAMPLE	185511-001	140	758925	428789	128973	951252	851467	1556345
SAMPLE	185511-002	141	774019	443609	132850	1007662	915326	1670631
SAMPLE	185511-009	142	775011	435018	127055	919088	800522	1517413
SAMPLE	185511-010	143	809101	433561	128827	909109	808592	1500044
SAMPLE	185511-011	144	834344	444979	134791	987084	888617	1598726
SAMPLE	185511-012	145	879524	454859	139927	1050074	1003783	1625874
SAMPLE	185511-013	146	889604	448738	139482	1047780	977452	1630266
CCV		148	898686	474239	147941	1054434	995910	1697276
CCB		150	928026	470981	147653	1106829	1054733	1695829
SAMPLE	185511-001	151	914571	468593	147785	1095844	1048000	1695234
SAMPLE	185511-002	152	898120	465039	146805	1081241	1031908	1681694
SAMPLE	185511-009	153	892820	477480	148386	1104241	1056783	1743078
SAMPLE	185511-010	154	870000	449027	142702	1061851	1016986	1643022
SAMPLE	185511-011	155	893272	463183	146295	1080807	1049763	1712058
SAMPLE	185511-012	156	845198	439973	139813	1034738	1013321	1637294
SAMPLE	185511-013	157	859140	482603	155303	1210884	1197044	1922512
CCV		159	836473	493671	155900	1140911	1105121	1864226
CCB		161	838678	505026	161662	1282761	1249274	2030082
ICSA		162	699133	407378	123996	865103	757128	1506762
SAMPLE	185586-001	165	771774	402916	112089	748614	641049	1285182
SAMPLE	185586-002	166	819412	416153	116812	770036	678518	1285819
SAMPLE	185586-003	167	804969	418760	119801	806652	731128	1384785
SAMPLE	185586-018	168	774275	410904	116904	787970	703842	1336567
SAMPLE	185586-019	169	827801	431607	125902	859952	772891	1461643

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= Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

equence Date: 24-MAR-2006
Sequence: 56120449 (c2415)
nstrument ID: MET05

ICALBLK Filename: c2415003
Date Analyzed: 24-MAR-2006
Time Analyzed: 15:41

TYPE	SAMPLE	#						
SAMPLE	185586-020	170	825135	428246	121478	799779	712619	1377815
SAMPLE	185586-021	171	843481	425377	124694	821892	761419	1398218
SAMPLE	185586-022	172	803525	425996	122775	827060	767913	1434556
CCV		174	892339	468084	138839	979740	906100	1564977
CCB		176	877911	451821	137616	1006582	945762	1555180
SAMPLE	185586-023	177	862123	410613	122842	822762	772588	1357276
SAMPLE	185586-024	178	742583	416797	124875	900069	833040	1506763
SAMPLE	185586-025	179	689219	413677	125880	978651	901403	1635791
SAMPLE	185586-026	180	698318	397434	122510	958796	909958	1617639
SAMPLE	185586-001	181	741263	417299	134961	1083737	1102542	1781481
SAMPLE	185586-002	182	737925	451771	142841	1149286	1148213	1865982
SAMPLE	185586-003	183	786967	441082	138181	1072986	1058515	1708180
SAMPLE	185586-018	184	777445	448020	140428	1114324	1096072	1793461
CCV		185	1069484	756141*	185899	1355459	1186577	2005822
CCB		187	867621	468086	141351	1068398	1040296	1678665
ICSA		188	692065	386620	109304	745623	635742	1283214

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= Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 25-MAR-2006
Sequence: 56121987 (c2517)
Instrument ID: MET05

ICALBLK Filename: c2517003
Date Analyzed: 25-MAR-2006
Time Analyzed: 17:19

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD	1139817	634190	133389	777897	641813	1132187
LOWER LIMIT	341945	190257	40017	233369	192544	339656
UPPER LIMIT	1367780	761028	160066	933476	770176	1358624

TYPE	SAMPLE	#						
ICB		014	1100289	603776	131176	768003	612511	1077984
ICSA		016	847328	453404	108022	613455	437540	922108
BLANK	QC332965	019	1064766	529164	128170	759134	636640	1114398
BS	QC332966	020	1034636	526969	120989	687214	550516	1019951
BSD	QC332967	021	1033565	518353	121469	686753	550730	1019028
MSS	185408-008	022	1043883	561740	115526	665892	527756	1001708
SER	QC332972	023	1191716	619784	134517	838967	667641	1184835
MSS	185408-008	024	1199627	626760	133411	778782	639834	1116551
SER	QC332972	025	1118014	588973	133470	840700	664124	1167213
CCV		026	1061300	550830	129717	771565	621164	1132226
CCB		029	1071784	544066	127891	761628	639000	1115718
MS	QC332968	030	992000	536324	112787	630422	498666	953394
MSD	QC332969	031	1019292	550554	117683	680358	534302	1036027
PDS	QC332973	032	1010044	520381	116904	665591	528978	1022141
MS	QC332968	033	1114291	544679	130842	796482	650552	1161138
MSD	QC332969	034	1140072	563072	134680	817252	667189	1186600
PDS	QC332973	035	1110325	560766	130309	776050	631539	1127296
MSS	185408-010	036	1026976	511766	117670	676924	520117	1018805
SAMPLE	185408-009	037	1156295	607332	126284	744852	589059	1133168
SAMPLE	185408-009	038	1123418	540759	131473	784231	653144	1157986
CCV		040	1102280	550965	130911	781234	625052	1151163
CCB		043	1120370	525881	131000	764880	640607	1122890
MS	QC332970	044	1031101	527108	115342	653925	502396	998840
MSD	QC332971	045	1025567	522594	116074	657178	509076	1021405
MSS	185408-010	046	1130567	569653	131098	804607	638864	1143601
MS	QC332970	047	1137225	593776	131928	770956	628031	1125714
MSD	QC332971	048	1153398	591680	131637	777760	624006	1128404
SAMPLE	185408-011	049	1155064	601008	123855	700861	528161	1073155

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

equence Date: 25-MAR-2006 ICALBLK Filename: c2517003
Sequence: 56121987 (c2517) Date Analyzed: 25-MAR-2006
nstrument ID: MET05 Time Analyzed: 17:19

TYPE	SAMPLE	#						
SAMPLE	185408-011	050	1096851	535538	130875	794603	644178	1158285
ICSA		051	845474	432354	103499	618021	443853	958181
CCV		059	1024016	484073	120192	728547	618298	1110484
CCB		062	1073848	503446	120349	748345	640870	1106379
SAMPLE	185586-023	063	1033519	496600	110171	634488	505069	916126
SAMPLE	185586-024	064	1003952	503378	109916	635223	492453	977095
SAMPLE	185586-025	065	1076339	547108	115716	687481	532183	1054921
SAMPLE	185586-026	066	1014799	502436	110879	657173	511573	1025592
SAMPLE	185586-001	067	1106859	527352	126202	825420	654958	1172338
SAMPLE	185586-002	068	1075630	502123	124489	790379	647049	1150774
SAMPLE	185586-003	069	1108457	523406	123937	768266	638824	1132078
SAMPLE	185586-018	070	1051171	492958	121344	742974	622473	1115955
SAMPLE	185586-019	071	1092966	524023	122073	760988	628221	1122662
CCV		073	1034687	540977	124388	745305	617623	1108734
CCB		076	1111324	541147	126089	778141	637173	1122658
SAMPLE	185586-020	077	1101515	559507	124136	732795	598941	1080835
SAMPLE	185586-021	078	1079764	554748	124928	735298	608022	1081508
SAMPLE	185586-022	079	1100320	529753	123205	734005	608361	1084350
SAMPLE	185586-023	080	1117494	554799	124681	766542	637048	1088890
SAMPLE	185586-024	081	1110840	533589	126329	759816	618678	1105938
SAMPLE	185586-025	082	1064157	536289	123558	736465	608239	1094471
SAMPLE	185586-026	083	1060691	536452	120982	715592	593698	1046999
SAMPLE	185558-011	084	938889	470833	103240	603207	455586	937673
SAMPLE	185558-012	085	1031786	527126	113277	674573	522376	1078917
SAMPLE	185558-013	086	987628	477004	106142	646764	497393	1035951
CCV		088	1065469	535639	123218	731747	604871	1142058
CCB		090	1133391	541140	126441	782619	650301	1150187
SAMPLE	185558-014	091	966173	474765	103740	615431	473453	1005652
SAMPLE	185558-015	092	1025490	487989	112790	691510	552233	1094462
SAMPLE	185558-016	093	974594	457731	105312	654121	525931	1071150
SAMPLE	185558-017	094	962734	431148	103646	645705	508317	1044139
SAMPLE	185558-018	095	941715	460306	104455	632842	480899	1015421
CCV		097	1015278	524872	121455	730659	601084	1130387
CCB		099	1073894	501583	122881	773944	646434	1136659

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

equence Date: 25-MAR-2006 ICALBLK Filename: c2517003
Sequence: 56121987 (c2517) Date Analyzed: 25-MAR-2006
nstrument ID: MET05 Time Analyzed: 17:19

TYPE	SAMPLE	#						
SAMPLE	185558-019	101	998877	508950	107524	627578	477858	973546
SAMPLE	185558-020	102	1026070	543407	109810	643983	492251	1004414
SAMPLE	185558-022	103	936320	491878	103309	588855	443362	881421
SAMPLE	185558-026	104	989379	482734	109142	653350	500539	1023483
SAMPLE	185558-027	105	951310	457627	101378	605060	460391	972739
SAMPLE	185558-011	106	1029229	469984	114470	709909	605896	1107181
SAMPLE	185558-012	107	1095114	497816	121072	758346	647460	1175114
SAMPLE	185558-013	108	1059342	485697	117278	739376	625489	1133701
SAMPLE	185558-014	109	1030886	465997	115881	732764	621571	1138465
CCV		111	1035614	505270	119610	706930	584167	1106860
CCB		113	1085746	521946	123756	769437	627016	1123088
SAMPLE	185558-015	114	1134878	521394	126520	779096	627647	1131526
SAMPLE	185558-016	115	1095074	543432	123244	734051	607732	1099518
SAMPLE	185558-017	116	1088659	537168	124030	781390	613656	1117561
SAMPLE	185558-018	117	1105039	540994	124414	755916	601302	1100977
SAMPLE	185558-019	118	1088143	548025	123752	737793	604614	1091624
SAMPLE	185558-020	119	1075160	538360	122065	716995	588888	1086840
SAMPLE	185558-022	120	1085105	522046	123568	725271	596264	1086375
SAMPLE	185558-026	121	1128536	568986	126885	775546	620776	1134415
SAMPLE	185558-027	122	1059878	514099	119882	713993	585547	1061348
CCV		124	1047439	534967	123404	704117	572928	1084855
CCB		126	1086521	548533	125226	762596	614903	1121785
ICSA		127	785562	401529	93809	541410	404787	796106
BLANK	QC332485	131	1109013	503588	116896	742983	605757	1054134
BS	QC332486	132	1129867	566847	113451	653972	506599	972476
BSD	QC332487	133	1090976	516760	111145	628057	484772	925371
MSS	185414-001	134	1080699	552926	112012	653971	495559	969726
SER	QC332490	135	1184114	584736	124327	755739	595066	1100805
MS	QC332488	136	1074613	522435	110997	617051	471270	898160
MSD	QC332489	137	1074468	553351	113192	632719	475916	916593
CCV		139	1128178	586467	127269	771339	587469	1113975
CCB		141	1158421	600105	128008	783400	620493	1121618
SAMPLE	185414-002	146	1006267	503321	105692	581218	448133	789951
SAMPLE	185414-003	147	1041575	543342	109519	623252	461800	920271

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

equence Date: 25-MAR-2006
Sequence: 56121987 (c2517)
nstrument ID: MET05

ICALBLK Filename: c2517003
Date Analyzed: 25-MAR-2006
Time Analyzed: 17:19

TYPE	SAMPLE	#						
SAMPLE	185414-004	148	1061828	515095	109330	619423	465549	862996
SAMPLE	185414-005	149	1059787	534523	109735	615933	457490	926324
SAMPLE	185414-006	150	1039427	551037	108970	620303	464166	843306
SAMPLE	185414-007	151	1059140	518935	111033	636004	474277	917576
SAMPLE	185414-008	152	1057991	528535	109107	610439	457862	901187
SAMPLE	185414-009	153	1030462	546416	108849	592543	433000	866379
SAMPLE	185414-010	154	1054794	550093	110535	608027	452708	872948
CCV		156	1103389	564782	123746	703884	554114	1062444
CCB		158	1124218	560923	124976	711148	580933	1051716
SAMPLE	185414-011	160	1039935	558760	110786	596281	446236	843153
SAMPLE	185414-012	161	1062006	556038	111742	616647	464280	859365
SAMPLE	185414-013	162	1067479	537821	109416	602933	457781	841861
SAMPLE	185683-001	163	1020626	539505	108651	606477	455642	889775
SAMPLE	185684-001	164	1107865	598494	115126	641616	482082	919489
SAMPLE	185685-001	165	1060180	531249	109897	606905	452032	905917
SAMPLE	185686-001	166	1060689	549601	110533	617493	458282	890871
SAMPLE	185687-001	167	1209277	665033	127131	714725	535124	1034461
SAMPLE	185688-001	168	1159589	641444	119628	669786	501019	966643
CCV		170	1146258	627622	131030	765545	578214	1113343
CCB		172	1203551	609504	128322	755770	594769	1097182
CCV		179	1110785	551473	120272	702223	582476	1095094
CCB		181	1107452	534832	118854	713139	597288	1066141
ICSA		182	844702	440154	97686	551046	411258	803968
CCV		186	1097983	514757	121934	729966	579541	1089971
CCB		188	1153515	542398	124282	761284	622558	1102885

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 28-MAR-2006
Sequence: 56125898 (c2810)
Instrument ID: MET05

ICALBLK Filename: c2810003
Date Analyzed: 28-MAR-2006
Time Analyzed: 10:30

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD	887562	918518	198458	1177741	480798	1140808
LOWER LIMIT	266268	275555	59538	353322	144239	342242
UPPER LIMIT	1065074	1102221	238150	1413289	576957	1368970

TYPE	SAMPLE	#						
ICB		011	844466	892567	193103	1130932	441462	1024386
ICSA		012	634411	802998	165707	895237	343509	857981
SAMPLE	185558-011	015	504889	679822	131926	753212	303996	750502
SAMPLE	185558-012	016	619725	797069	151067	892879	362496	871482
SAMPLE	185558-013	017	578129	745253	141293	842245	346532	817096
SAMPLE	185558-014	018	563683	757480	141839	858469	336060	803668
SAMPLE	185558-015	019	686693	868712	160690	997120	395131	942357
SAMPLE	185558-016	020	721051	904057	167633	1035145	409662	1003949
SAMPLE	185558-017	021	721281	922149	173460	1035397	405457	970709
SAMPLE	185558-018	022	656948	823191	162402	991398	377239	919926
CCV		025	757823	883525	182757	1092378	412406	996530
CCB		027	748589	889665	175828	1096948	412247	1000538
SAMPLE	185558-019	028	663376	826521	164808	952893	362639	892429
SAMPLE	185558-020	029	667698	830247	164325	960952	368560	889148
SAMPLE	185558-022	030	626153	836660	160682	939157	355016	864651
SAMPLE	185558-026	031	657183	831615	169272	993712	359142	893926
SAMPLE	185558-027	032	649089	844895	160368	942903	361377	881084
BLANK	QC332485	034	664481	811207	154876	1005620	385910	886558
BS	QC332486	035	688655	819244	168589	988566	385958	910938
BSD	QC332487	036	730031	853550	176140	1051872	396359	934774
MSS	185414-001	037	713442	846745	173000	1034510	386891	934847
SER	QC332490	038	787295	891807	185987	1166747	420338	997150
CCV		040	757422	900998	187411	1085755	412074	1004650
CCB		042	783999	886350	185632	1121385	422751	992570
MS	QC332488	043	718871	851664	178972	1031044	390856	965103
MSD	QC332489	044	715683	851865	181438	1030126	396068	931760
SAMPLE	185414-002	045	750005	881611	180789	1079923	403220	965470
SAMPLE	185414-003	046	722799	856856	178504	1046451	401223	976449

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 28-MAR-2006
Sequence: 56125898 (c2810)
Instrument ID: MET05

ICALBLK Filename: c2810003
Date Analyzed: 28-MAR-2006
Time Analyzed: 10:30

TYPE	SAMPLE	#							
SAMPLE	185414-004	047	728141	807808	169145	1019182	378420	923584	
SAMPLE	185414-005	048	694861	818757	167991	978901	371038	900453	
SAMPLE	185414-006	049	678362	822742	167339	1025370	397291	918996	
SAMPLE	185414-007	050	698207	815003	165208	994587	390017	900400	
SAMPLE	185414-008	051	672628	796540	160792	980719	361960	873243	
SAMPLE	185414-009	052	677109	811504	170715	954773	365729	886226	
CCV		054	672981	834534	169540	978830	378238	862799	
CCB		056	559398	693018	138250	828413	331746	730631	
SAMPLE	185414-010	057	561060	712465	143779	802366	303936	733259	
SAMPLE	185414-011	058	518798	661490	133574	787808	300441	693334	
SAMPLE	185414-012	059	444905	591680	116903	679141	278848	609939	
SAMPLE	185414-013	060	377819	478084	98137	593890	250357	557676	
SAMPLE	185414-009	061	421332	568718	108630	676189	284107	599015	
CCV		062	408311	516552	106091	647366	274439	610068	745
CCB		063	378887	497189	96849	625030	275337	586656	

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 28-MAR-2006
Sequence: 56126520 (c2820)
Instrument ID: MET05

ICALBLK Filename: c2820003
Date Analyzed: 28-MAR-2006
Time Analyzed: 20:51

REVISED 03/27/06

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD	1014580	1093033	201561	1035660	588318	1141111
LOWER LIMIT	304374	327910	60468	310698	176495	342333
UPPER LIMIT	1217496	1311640	241873	1242792	705981	1369333

TYPE	SAMPLE	#					
ICB		011	989238	1036501	193771	974119	607138	1124614
ICSA		012	865483	948417	178165	811918	499243	1037956
SAMPLE	185683-001	015	775192	817722	159598	767851	523424	932487
SAMPLE	185684-001	016	805958	821032	162403	803629	549703	974087
SAMPLE	185685-001	017	789587	817557	160113	780652	531723	944599
SAMPLE	185686-001	018	805251	811272	161617	788742	534830	948414
SAMPLE	185687-001	019	825007	810788	162137	798058	555186	945166
SAMPLE	185688-001	020	830047	828543	160102	799272	556793	1003815
SAMPLE	185558-011	022	953332	938936	183961	923580	611447	1140519
SAMPLE	185558-012	023	951096	919792	179628	903614	615691	1124137
CCV		025	911568	881694	176132	852945	603811	1096055
CCB		027	930698	870439	170920	865222	611513	1081662
SAMPLE	185558-013	028	919379	854460	171237	840640	590646	1068556
SAMPLE	185558-014	029	931730	872097	173331	849102	605362	1090475
SAMPLE	185558-015	030	931176	842156	170748	857438	608306	1074451
SAMPLE	185558-016	031	918080	862898	170424	846054	607172	1077793
SAMPLE	185558-017	032	925438	846718	169998	861113	613571	1083211
SAMPLE	185558-018	033	896405	823764	166025	836684	600269	1066034
SAMPLE	185558-019	034	908233	829857	167993	841298	615936	1073615
SAMPLE	185558-020	035	912667	825698	167247	840610	612821	1071061
SAMPLE	185558-022	036	905342	824973	166667	836922	604072	1076396
SAMPLE	185558-026	037	915032	833350	167972	845172	610384	1062359
CCV		039	879699	792825	162025	801486	586110	1031186
CCB		041	881612	777251	157208	814159	605474	1032627
SAMPLE	185558-027	042	876556	752859	156562	808496	600566	1014173
ICSA		043	732111	642908	139315	669399	477737	865357
SAMPLE	185586-023	046	729163	595932	131399	697402	511019	821316
SAMPLE	185586-024	047	720197	627614	133962	670316	488116	829097

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 28-MAR-2006
Sequence: 56126520 (c2820)
Instrument ID: MET05

ICALBLK Filename: c2820003
Date Analyzed: 28-MAR-2006
Time Analyzed: 20:51

REVISED
on 4/25/06

TYPE	SAMPLE	#						
SAMPLE	185586-025	048	733251	645189	137341	687481	497773	837187
SAMPLE	185586-026	049	735466	632532	136076	674923	487999	825911
SAMPLE	185586-001	050	851679	757431	155456	800996	578932	1015995
SAMPLE	185586-002	051	848189	716923	154089	799898	587570	1006229
SAMPLE	185586-003	052	850358	750568	155759	795316	585704	996949
CCV		054	827909	729656	152831	767659	571466	981359
CCB		056	869495	757492	153954	802918	594946	978439
SAMPLE	185586-018	057	837905	706378	150932	781074	569930	935939
SAMPLE	185586-019	058	851245	719934	155076	796385	584456	987720

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 29-MAR-2006
Sequence: 56127407 (c2911)
Instrument ID: MET05

ICALBLK Filename: c2911003
Date Analyzed: 29-MAR-2006
Time Analyzed: 11:39

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD	673038	750674	117128	484717	174650	371162
LOWER LIMIT	201911	225202	35138	145415	52395	111349
UPPER LIMIT	807645	900809	140554	581660	209580	445395

TYPE	SAMPLE	#						
ICB		011	634722	704837	107424	429790	135452	332290
ICSA		012	503899	570052	94447	333999	107200	285258
SAMPLE	185558-011	015	524612	576090	91658	334248	96496	255501
SAMPLE	185558-012	016	517176	542434	88241	326173	92647	236773
SAMPLE	185558-013	017	504179	553604	86766	310012	83869	226878
SAMPLE	185558-014	018	471611	477106	81284	284372	72192	192346
SAMPLE	185558-015	019	475958	480797	78889	277374	64969	183059
CCV		020	475993	494468	79837	260588	69430	189222
CCB		021	487378	501069	78816	286607	71518	186992
ICSA		022	390414	431863	72928	245070	58099	173413

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 29-MAR-2006
Sequence: 56127578 (c2914)
Instrument ID: MET05

ICALBLK Filename: c2914003
Date Analyzed: 29-MAR-2006
Time Analyzed: 14:30

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD	65987	109051	25762	176536	167952	242552
LOWER LIMIT	19796	32715	7728	52961	50386	72766
UPPER LIMIT	79184	130861	30914	211843	201543	291063

TYPE	SAMPLE	#						
ICB		012	57700	97209	23304	166987	151136	224416
ICSA		013	49717	100082	25443	168499	155172	242141
SAMPLE	185558-016	016	49516	110196	27902	202857	194446	278958
SAMPLE	185558-017	017	48801	105771	27193	198982	190090	269270
SAMPLE	185558-018	018	48221	102909	26666	194576	184033	264266
SAMPLE	185558-019	019	47656	102809	26569	191635	181409	264921
SAMPLE	185558-020	020	48744	104661	26620	194377	186579	268396
SAMPLE	185558-022	021	46983	101050	26072	187455	177576	259054
SAMPLE	185558-026	022	48723	103243	26510	194036	181518	264322
SAMPLE	185558-027	023	49546	102390	26121	191286	184959	262807
CCV		024	60473	118548	28125	192102	181184	263971
CCB		026	51847	103338	25932	192064	185224	263326
ICSA		027	40919	94723	24728	164493	152813	240006

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 30-MAR-2006
Sequence: 56128787 (c3010)
Instrument ID: MET05

ICALBLK Filename: c3010003
Date Analyzed: 30-MAR-2006
Time Analyzed: 10:39

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD	451067	439948	90912	614534	552591	866406
LOWER LIMIT	135320	131984	27274	184360	165777	259922
UPPER LIMIT	541280	527937	109095	737441	663109	1039687

TYPE	SAMPLE	#						
ICB		011	445121	449436	93978	631073	570470	887920
ICSA		012	427483	482478	101079	598410	494142	870980
BLANK	QC333505	015	402039	452232	94988	624015	544740	859206
BS	QC333506	016	361189	413806	89158	559289	497586	802223
BSD	QC333507	017	355690	412331	87924	555551	496834	790504
MSS	185843-001	018	372994	432006	88819	537751	458049	764648
SER	QC333510	019	390778	445694	93216	572201	480227	807712
MSS	185843-001	020	407926	451563	90328	540070	450579	755881
MS	QC333508	021	383763	427333	85988	517540	445994	737151
CCV		024	384000	441840	94166	577107	507828	814700
CCB		026	378500	421849	88287	584659	516076	811411
PDS	QC333511	027	380980	450219	92042	527847	446739	738592
MSD	QC333509	028	362263	434339	89384	533642	459978	755671
SAMPLE	185558-027	029	334567	424617	88878	551279	478264	786177
SAMPLE	185558-016	030	382101	447371	96932	614290	530889	878680
SAMPLE	185558-017	031	381917	439347	95545	610443	529918	839538
CCV		032	374318	433786	94245	584522	520462	835151
CCB		034	380083	419991	90330	590258	527164	827787
ICSA		035	331641	411593	88151	501596	438944	725036

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Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185558 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	HARD	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	MO	NI	K	SE	AG	NA	TL	V	ZN
185558-011	MET05	03/26/06 00:50	1.0		+																							
185558-011	MET05	03/26/06 02:53	20.0																									
185558-011	MET05	03/28/06 11:40	1.0			+	+	+	+	+		+	+	+	+	+					+	+	+	+		+	+	+
185558-011	MET05	03/28/06 22:36	20.0																									
185558-011	MET05	03/29/06 12:45	20.0								+						+	+							+			
185558-012	MET05	03/26/06 00:56	1.0		+																							
185558-012	MET05	03/26/06 02:58	20.0																									
185558-012	MET05	03/28/06 11:46	1.0			+	+	+	+	+		+	+	+	+	+		+				+	+	+		+	+	+
185558-012	MET05	03/28/06 22:42	20.0																									
185558-012	MET05	03/29/06 12:51	20.0								+						+				+				+			
185558-013	MET05	03/26/06 01:01	1.0		+																							
185558-013	MET05	03/26/06 03:04	20.0																									
185558-013	MET05	03/28/06 11:51	1.0			+	+	+	+	+		+	+	+	+	+		+			+	+	+	+		+	+	+
185558-013	MET05	03/28/06 23:09	20.0																									
185558-013	MET05	03/29/06 12:56	20.0								+						+								+			
185558-014	MET05	03/26/06 01:29	1.0		+																							
185558-014	MET05	03/26/06 03:09	20.0																									
185558-014	MET05	03/28/06 11:57	1.0			+	+	+	+	+		+	+	+	+	+					+	+	+	+		+	+	+
185558-014	MET05	03/28/06 23:15	20.0															+										
185558-014	MET05	03/29/06 13:02	20.0								+						+								+			
185558-015	MET04	03/16/06 15:18	1.0																+									
185558-015	MET05	03/26/06 01:34	1.0		+																							
185558-015	MET05	03/26/06 03:37	20.0																									
185558-015	MET05	03/28/06 12:02	1.0			+	+	+	+	+		+	+	+	+	+		+		+	+	+	+	+		+	+	+
185558-015	MET05	03/28/06 23:21	20.0																									
185558-015	MET05	03/29/06 13:08	20.0								+						+								+			
185558-016	MET05	03/26/06 01:40	1.0		+																							
185558-016	MET05	03/26/06 03:43	20.0																									
185558-016	MET05	03/28/06 12:08	1.0				+			+		+		+	+	+					+	+						+
185558-016	MET05	03/28/06 23:26	20.0								+																	
185558-016	MET05	03/29/06 15:45	20.0														+								+			
185558-016	MET05	03/30/06 13:10	10.0															+										
185558-017	MET05	03/26/06 01:45	1.0		+												+											
185558-017	MET05	03/26/06 03:48	20.0																									
185558-017	MET05	03/28/06 12:13	1.0			+	+			+	+	+		+	+	+					+	+					+	+
185558-017	MET05	03/28/06 23:32	20.0																									
185558-017	MET05	03/29/06 15:51	20.0																						+			
185558-017	MET05	03/30/06 13:16	10.0															+										
185558-018	MET05	03/26/06 01:51	1.0		+																							

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185558 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	HARD	ALB	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	MO	NI	K	SE	AG	NA	TL	V	ZN
185558-018	MET05	03/26/06 03:54	20.0																									
185558-018	MET05	03/28/06 12:19	1.0			+	+			+		+		+	+	+		+			+	+					+	+
185558-018	MET05	03/28/06 23:37	20.0																									
185558-018	MET05	03/29/06 15:57	20.0								+						+								+			
185558-019	MET05	03/26/06 02:25	1.0		+																							
185558-019	MET05	03/26/06 04:00	20.0																									
185558-019	MET05	03/28/06 12:56	1.0				+			+		+		+		+					+	+						+
185558-019	MET05	03/28/06 23:43	20.0																									
185558-019	MET05	03/29/06 16:02	20.0								+				+		+	+							+			
185558-020	MET05	03/26/06 02:31	1.0		+																							
185558-020	MET05	03/26/06 04:05	20.0																									
185558-020	MET05	03/28/06 13:04	1.0				+			+		+		+	+	+					+	+						+
185558-020	MET05	03/28/06 23:48	20.0																									
185558-020	MET05	03/29/06 16:08	20.0								+						+	+							+			
185558-022	MET05	03/26/06 02:36	1.0		+																							
185558-022	MET05	03/26/06 04:11	20.0																									
185558-022	MET05	03/28/06 13:10	1.0				+			+		+		+		+					+							+
185558-022	MET05	03/28/06 23:54	20.0															+										
185558-022	MET05	03/29/06 16:14	20.0								+				+		+					+			+			
185558-026	MET05	03/26/06 02:42	1.0		+																							
185558-026	MET05	03/26/06 04:16	20.0																									
185558-026	MET05	03/28/06 13:15	1.0				+			+		+		+	+	+		+			+	+						+
185558-026	MET05	03/29/06 00:00	20.0																									
185558-026	MET05	03/29/06 16:19	20.0								+						+								+			
185558-027	MET05	03/26/06 02:47	1.0		+																							
185558-027	MET05	03/26/06 04:22	20.0																									
185558-027	MET05	03/28/06 13:21	1.0				+			+	+	+		+	+	+		+			+	+						+
185558-027	MET05	03/29/06 00:27	20.0																									
185558-027	MET05	03/29/06 16:25	20.0																						+			
185558-027	MET05	03/30/06 13:05	1.0														+											
QC331792	MET04	03/16/06 14:27	1.0																+									
QC331793	MET04	03/16/06 14:30	1.0																+									
QC331794	MET04	03/16/06 14:32	1.0																+									
QC331795	MET04	03/16/06 14:34	1.0																+									
QC331796	MET04	03/16/06 14:37	1.0																+									

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185558 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	HARD	ALB	SB	ASA	BBA	BBE	CCD	CCA	CCR	CCO	CCU	FE	PB	MG	MN	HG	MO	NI	K	SE	AG	NA	TL	V	ZN
QC331797	MET04	03/16/06 14:40	1.0																+									
QC331798	MET04	03/16/06 14:43	1.0																+									
QC331799	MET04	03/16/06 14:45	1.0																+									
QC331981	MET05	03/25/06 01:01	1.0		+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC331982	MET05	03/25/06 01:07	1.0		+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC331983	MET05	03/25/06 01:12	1.0		+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC331984	MET05	03/25/06 01:45	1.0		+	+	+	+	+	+		+	+	+	+	+	+			+	+	+	+	+	+	+	+	+
QC331984	MET05	03/25/06 02:13	20.0								+							+										
QC331985	MET05	03/25/06 01:51	1.0		+	+	+	+	+	+		+	+	+	+	+	+			+	+	+	+	+	+	+	+	+
QC331985	MET05	03/25/06 02:19	20.0								+							+										
QC331986	MET05	03/25/06 01:40	5.0		+	+	+	+	+	+		+	+	+	+	+					+	+	+	+		+	+	+
QC331986	MET05	03/25/06 02:07	100.0								+						+	+		+					+			
QC331987	MET05	03/25/06 01:56	1.0		+	+	+	+	+	+		+	+	+	+	+				+	+	+	+	+		+	+	+
QC331987	MET05	03/25/06 02:24	20.0								+						+	+							+			

Curtis & Tompkins Laboratories Sample Preparation Summary 17-MAR-2006 12:55

Batch Number : 111421
Date Extracted: 17-MAR-2006
Extracted by : Kevin Gaines
Prep Method : 200.8

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S2309
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185408-001		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185408-002		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185408-003		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185408-004		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185408-005		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185558-011		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185558-012		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185558-013		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185558-014		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185558-015		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HARDNESS, MO(more)		
185558-016		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185558-017		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
185558-018		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
185558-019		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185558-020		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185558-022		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185558-026		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185558-027		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
QC331981	BLANK		Filtrate	50	mL	50	1.000000	1					ICAP		
QC331982	BS		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331983	BSD		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331984	MS	of 185408-002	Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331985	MSD	of 185408-002	Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC331986	SER	of 185408-002	Filtrate	50	mL	50	1.000000	1					ICAP		
QC331987	PDS	of 185408-002	Filtrate	50	mL	50	1.000000	1					ICAP		

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Prep Chemist: [signature] 3/17/06 Reviewed By: [signature] Date: 3/25/6

Relinquished By: [signature] 3/17/06 Received By: [signature] Date: 3/25/6

Water Digestion for ICP-MS Curtis & Tompkins, Ltd.

LIMS Batch #: 111421
Date Digested: 3/17/06
Digested by: [illegible]

Digestion Method
☒ EPA 200.8 for ICP-MS
☐ _____

BK 2288
Page 12

Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BK	50	50		
BS				
BSD				
MS -025				FIELD FILTRAT
MSD -027				
185408-02				
-01 J				
-03				
-04				
-05				
558- 11 G				
-12 D				
-13 G				
-14				
-15				
-16 I				
-17				
-18				
-19				
-20				
-22				
-26				
-27				

	Reagent ID or LIMS #	Initials / Date
95 digestion temperature (90-95 degrees C)	95	[illegible] 3/17
.5 mL of spike solution was added to all spikes	52309	
concentrated HCl	24034	
concentrated HNO3	35040	
☐ filtered thru' Whatman # 541		

[illegible] 3/17/06
Extraction Chemist / Date

753
Continued from page ____
Continued on page ____

3/17/06
Reviewed by / Date

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

ıst : MET04
alnum : 46108784001 Date : 16-MAR-2006 13:04 Type : WATER Reviewer: ---
ıits : ug/L X Axis : R Inj Vol : 2000 uL

evel	File	Seqnum	Sample ID	Analyzed	Stds
L1	111370	46108784002	Std02Rep1	16-MAR-2006 13:05	S2922 (500X)
L2	111370	46108784003	Std03Rep1	16-MAR-2006 13:07	S2922 (200X)
L3	111370	46108784004	Std04Rep1	16-MAR-2006 13:09	S2922 (50X)
L4	111370	46108784005	Std05Rep1	16-MAR-2006 13:11	S2922 (20X)
L5	111370	46108784006	Std06Rep1	16-MAR-2006 13:13	S2922 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
ercury	59830	59724	58747	57101	60001	LINR	0.02376	1.68E-5		59080	0.999	.99	

754

JR=Linear regression
strument amount = a0 + response * a1 + response^2 * a2

46108784001

WinHg Database 1.3

File Utility Help

RN RN

Protocol hgppb

Dataset/Proto 031606 /hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.67740e-5

C 2.37603e-2

Rho .999694

Type Linear

☑ Calibrated

☑ Accepted

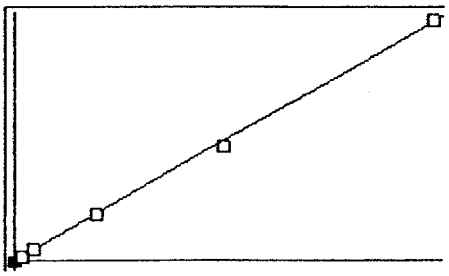
Accept

Rel. Abs.

600005

Accepted

New



Include S1 Rep 1 ☑

Conc. 10.1

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	.055	.055	1875	1	1875		
02	.20000	.224	.024	11967	0%	11966		
03	.50000	.525	.025	29863	0%	29862		
04	2.0000	1.99	-.005	117494	0%	117493		
05	5.0000	4.81	-.187	285506	0%	285505		
06	10.000	10.1	.088	600005	0%	600005		

Ready NUM

POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-------------------------------------------------------------------------------

*** Standard: 1 Rep: 1              Seq:  5       13:04:07 16 Mar 06   HG

Hg    .000    ppb       1875
              Bkgd 1    9976645

*** Standard: 2 Rep: 1              Seq:  6       13:05:51 16 Mar 06   HG

Hg    .200    ppb       11966
              Bkgd 1    9973474

*** Standard: 3 Rep: 1              Seq:  7       13:07:34 16 Mar 06   HG

Hg    .500    ppb       29862
              Bkgd 1    9975128

*** Standard: 4 Rep: 1              Seq:  8       13:09:22 16 Mar 06   HG

Hg    2.00    ppb       117493
              Bkgd 1    9971758

*** Standard: 5 Rep: 1              Seq:  9       13:11:27 16 Mar 06   HG

Hg    5.00    ppb       285505
              Bkgd 1    9972665

*** Standard: 6 Rep: 1              Seq:  10      13:13:23 16 Mar 06   HG

Hg    10.0    ppb       600005
              Bkgd 1    9973677

*** Check Standard: 2  Ck2s2924     Seq:  11      13:17:15 16 Mar 06   HG
Line  Flag             Intensities
Hg                     320120
              Bkgd 1   9972341

*** Check Standard: 1  Ck1ICB       Seq:  12      13:19:06 16 Mar 06   HG
Line  Flag             Intensities
Hg                     285
              Bkgd 1   9974191

*** Sample ID: qc331757             Seq:  13      13:20:49 16 Mar 06   HG
                           111370,1
Hg    .069    ppb       2692
              Bkgd 1    9975336

===============================================================================
```

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 46108864 Instrument: MET04 HydraAA HG Analyzer Begun: 16-MAR-2006
Analytical Method: EPA 7470A SOP Version: HG_water_rv7
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
01	111380	CCV					16-MAR-2006 14:24	1.0	1.0	1	5.000	46108784001	5.470		ug/L	109		
02	111380	CCB					16-MAR-2006 14:25	1.0	1.0			46108784001	ND	0.20	ug/L			
03	111380	BLANK	QC331792		111380	Filtra	16-MAR-2006 14:27	1.0	1.0			46108784001	ND	0.20	ug/L			
04	111380	BLANK	QC331793		111380	WET Le	16-MAR-2006 14:30	1.0	5.0			46108784001	ND	1.0	ug/L			
05	111380	BS	QC331794		111380	Filtra	16-MAR-2006 14:32	1.0	1.0		5.000	46108784001	5.060	0.20	ug/L	101		
06	111380	BSD	QC331795		111380	Filtra	16-MAR-2006 14:34	1.0	1.0		5.000	46108784001	4.960	0.20	ug/L	99	2	
07	111380	MSS	185457-016		111380	Filtra	16-MAR-2006 14:35	1.0	1.0			46108784001	ND	0.20	ug/L			
08	111380	MS	QC331796	185457-016	111380	Filtra	16-MAR-2006 14:37	1.0	1.0		5.000	46108784001	5.240	0.20	ug/L	105		
09	111380	MSD	QC331797	185457-016	111380	Filtra	16-MAR-2006 14:40	1.0	1.0		5.000	46108784001	5.480	0.20	ug/L	110	4	
10	111380	MSS	185426-001		111380	WET Le	16-MAR-2006 14:42	1.0	5.0			46108784001	ND	1.0	ug/L			
11	111380	MS	QC331798	185426-001	111380	WET Le	16-MAR-2006 14:43	1.0	5.0		25.00	46108784001	21.25	1.0	ug/L	85		
12	111380	MSD	QC331799	185426-001	111380	WET Le	16-MAR-2006 14:45	1.0	5.0		25.00	46108784001	20.60	1.0	ug/L	82	3	
13	111380	CCV					16-MAR-2006 14:47	1.0	1.0	2	7.500	46108784001	7.770		ug/L	104		
14	111380	CCB					16-MAR-2006 14:49	1.0	1.0			46108784001	ND	0.20	ug/L			
15	111380	SAMPLE	185457-001		111380	Filtra	16-MAR-2006 14:50	1.0	1.0			46108784001	ND	0.20	ug/L			
16	111380	SAMPLE	185457-002		111380	Filtra	16-MAR-2006 14:52	1.0	1.0			46108784001	ND	0.20	ug/L			
17	111380	SAMPLE	185457-005		111380	Filtra	16-MAR-2006 14:54	1.0	1.0			46108784001	ND	0.20	ug/L			
18	111380	SAMPLE	185457-006		111380	Filtra	16-MAR-2006 14:56	1.0	1.0			46108784001	ND	0.20	ug/L			
19	111380	SAMPLE	185457-007		111380	Filtra	16-MAR-2006 14:58	1.0	1.0			46108784001	ND	0.20	ug/L			
20	111380	SAMPLE	185457-008		111380	Filtra	16-MAR-2006 15:01	1.0	1.0			46108784001	ND	0.20	ug/L			
21	111380	SAMPLE	185511-012		111380	Filtra	16-MAR-2006 15:03	1.0	1.0			46108784001	ND	0.20	ug/L			
22	111380	SAMPLE	185511-013		111380	Filtra	16-MAR-2006 15:05	1.0	1.0			46108784001	ND	0.20	ug/L			
23	111380	SAMPLE	185516-001		111380	Filtra	16-MAR-2006 15:07	1.0	1.0			46108784001	71 >LR	0.20	ug/L			>LR b*
24	111380	SAMPLE	185516-002		111380	Filtra	16-MAR-2006 15:09	1.0	1.0			46108784001	0.57	0.20	ug/L			
25	111380	CCV					16-MAR-2006 15:12	1.0	1.0	3	2.500	46108784001	2.790		ug/L	112		
26	111380	CCB					16-MAR-2006 15:14	1.0	1.0			46108784001	ND	0.20	ug/L			
27	111380	SAMPLE	185516-003		111380	Filtra	16-MAR-2006 15:16	1.0	1.0			46108784001	1.3	0.20	ug/L			
28	111380	SAMPLE	185558-015		111380	Filtra	16-MAR-2006 15:18	1.0	1.0			46108784001	ND	0.20	ug/L			
29	111380	SAMPLE	185568-001		111380	Water	16-MAR-2006 15:20	1.0	1.0			46108784001	0.62	0.20	ug/L			
30	111380	SAMPLE	185516-001		111380	Filtra	16-MAR-2006 15:22	10.0	1.0			46108784001	92	2.0	ug/L			
31	111380	CCV					16-MAR-2006 15:24	1.0	1.0	1	5.000	46108784001	5.380		ug/L	108		
32	111380	CCB					16-MAR-2006 15:26	1.0	1.0			46108784001	[0.05700]	0.20	ug/L			

Stds used: 1=S2926 2=S2927 3=S2925
Flags used: >LR=overrange b=noncompliant

Analyst: [signature] Date: 3/16/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

uence: 46108784 Instrument: MET04 HydraAA HG Analyzer Begun: 16-MAR-2006
lytical Method: EPA 7470A SOP Version: HG_water_rv7
lyte: Mercury

ilename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
11370	ICALBLK	Std01Rep1				16-MAR-2006 13:04	1.0	1.0									
11370	ICAL	Std02Rep1				16-MAR-2006 13:05	1.0	1.0									
11370	ICAL	Std03Rep1				16-MAR-2006 13:07	1.0	1.0									
11370	ICAL	Std04Rep1				16-MAR-2006 13:09	1.0	1.0									
11370	ICAL	Std05Rep1				16-MAR-2006 13:11	1.0	1.0									
11370	ICAL	Std06Rep1				16-MAR-2006 13:13	1.0	1.0									
11370	ICV					16-MAR-2006 13:17	1.0	1.0	2	5.000	46108784001	5.390		ug/L	108		
11370	ICB					16-MAR-2006 13:19	1.0	1.0			46108784001	[0.02900]	0.20	ug/L			
11370	BLANK	QC331757		111370	Water	16-MAR-2006 13:20	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	BS	QC331758		111370	Water	16-MAR-2006 13:22	1.0	1.0		5.000	46108784001	4.950	0.20	ug/L	99		
11370	BSD	QC331759		111370	Water	16-MAR-2006 13:24	1.0	1.0		5.000	46108784001	4.860	0.20	ug/L	97	2	
11370	MSS	185438-005		111370	Water	16-MAR-2006 13:26	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	MS	QC331760	185438-005	111370	Water	16-MAR-2006 13:28	1.0	1.0		5.000	46108784001	5.050	0.20	ug/L	101		
11370	MSD	QC331761	185438-005	111370	Water	16-MAR-2006 13:30	1.0	1.0		5.000	46108784001	5.110	0.20	ug/L	102	1	
11370	SAMPLE	185438-006		111370	Water	16-MAR-2006 13:32	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185438-007		111370	Water	16-MAR-2006 13:33	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185438-008		111370	Water	16-MAR-2006 13:35	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185504-001		111370	Water	16-MAR-2006 13:37	1.0	1.0			46108784001	0.22	0.20	ug/L			
11370	CCV					16-MAR-2006 13:39	1.0	1.0	3	2.500	46108784001	2.770		ug/L	111		
11370	CCB					16-MAR-2006 13:41	1.0	1.0			46108784001	[0.04000]	0.20	ug/L			
11370	SAMPLE	185504-002		111370	Water	16-MAR-2006 13:43	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185521-001		111370	Water	16-MAR-2006 13:45	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185521-001		111370	Filtra	16-MAR-2006 13:47	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185527-001		111370	Filtra	16-MAR-2006 13:48	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185527-002		111370	Filtra	16-MAR-2006 13:50	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185527-003		111370	Filtra	16-MAR-2006 13:53	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185527-004		111370	Filtra	16-MAR-2006 13:55	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185538-001		111370	Water	16-MAR-2006 13:56	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185544-001		111370	Water	16-MAR-2006 13:58	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185548-001		111370	Water	16-MAR-2006 14:00	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	CCV					16-MAR-2006 14:02	1.0	1.0	4	5.000	46108784001	5.490		ug/L	110		
11370	CCB					16-MAR-2006 14:04	1.0	1.0			46108784001	[0.03500]	0.20	ug/L			
11370	SAMPLE	185553-002		111370	Water	16-MAR-2006 14:05	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185555-001		111370	Water	16-MAR-2006 14:07	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185557-001		111370	Water	16-MAR-2006 14:09	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185557-005		111370	Water	16-MAR-2006 14:11	1.0	1.0			46108784001	ND	0.20	ug/L			
11370	SAMPLE	185566-001		111370	Water	16-MAR-2006 14:14	1.0	1.0			46108784001	9.8	0.20	ug/L			
11370	CCV					16-MAR-2006 14:16	1.0	1.0	5	7.500	46108784001	7.810		ug/L	104		
11370	CCB					16-MAR-2006 14:18	1.0	1.0			46108784001	[0.01100]	0.20	ug/L			

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s used: 1=S2922 2=S2924 3=S2925 4=S2926 5=S2927

lyst: [signature] Date: 3/16/06

Curtis & Tompkins Laboratories **Sample Preparation Summary** **16-MAR-2006 11:46**

Batch Number : 111380
Date Extracted: 16-MAR-2006
Extracted by : Kale Clauson
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : mL
Clean-up :

Spike #1 ID : S2922
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185426-001			Blasland, Bouck & Lee	WET Leacha	10	mL	50	5.000000	1					T26/HG		
185457-001			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185457-002			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185457-005			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185457-006			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185457-007			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185457-008			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185457-016			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185511-012			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185511-013			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185516-001			Tesoro Golden Eagle Refinery	Filtrate	50	mL	50	1.000000	1					T26/HG		
185516-002			Tesoro Golden Eagle Refinery	Filtrate	50	mL	50	1.000000	1					T26/HG		
185516-003			Tesoro Golden Eagle Refinery	Filtrate	50	mL	50	1.000000	1					T26/HG		
185558-015			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185568-001			LA Chemical	Water	50	mL	50	1.000000	1					HG		
QC331792	BLANK			Filtrate	50	mL	50	1.000000	1					HG		
QC331793	BLANK			WET Leacha	10	mL	50	5.000000	1					HG		
QC331794	BS			Filtrate	50	mL	50	1.000000	1		2.5			HG		
QC331795	BSD			Filtrate	50	mL	50	1.000000	1		2.5			HG		
QC331796	MS	of 185457-016		Filtrate	50	mL	50	1.000000	1		2.5			HG		
QC331797	MSD	of 185457-016		Filtrate	50	mL	50	1.000000	1		2.5			HG		
QC331798	MS	of 185426-001		WET Leacha	10	mL	50	5.000000	1		2.5			HG		
QC331799	MSD	of 185426-001		WET Leacha	10	mL	50	5.000000	1		2.5			HG		

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Prep Chemist: [signature] Reviewed By: K Carlyn Date: 3/16/06

Relinquished By: [signature] Received By: [signature] Date: 3/16/06

Water Digestion for Mercury

Curtis & Tompkins, Ltd

LIMS Batch #: 111380
Date Digested: 3/16/06
Digested by: KMC

Digestion Method
☒ EPA 7470A/ EPA 245.1
☐ _____

BK 2277
Page 21

Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
185426 - 001 MSS	10	50	N	WET LEACHATE
185457 - 001 G	50			FILTRATE
002				
005				
006				
007				
008				
016 MSS S				
185511 - 012 N				
013				
185516 - 001 D				
KMC 3/16 002				
003				
185558 - 015 G				
185568 - 001 A				WATER
BLANK				FILTRATE
BLANK	10			WET LEACHATE
BS	50			FILTRATE
BSD				
MS 185457 - 016				
MSD 185457 - 016				
MS 185426 - 001	10			WET LEACHATE
MSD 185426 - 001				

	Reagent ID/ LIMS# / Time	Initials / Date
9.5 mL of spike solution was added to all spikes	S2922	KMC 3/16
ICAL Source WS#	S2922	
ICV / CCV WS#	S2924/25/26/27	
Digestion of Samples & Standards: Time ON / Temperature ON	1120 / 95°C	
Time OFF/ Temperature OFF	120 / 95°C	
concentrated H_2SO_4	B03032	
concentrated HNO_3	B49053	
5% $KMnO_4$	K 031006	
5% $K_2S_2O_8$	K_2 021406	
NaCl.hydroxylamine hydrochloride	Hy 022806	
Stannous Chloride	$SnCl_2$ 031306	
☐ filtered thru' 0.45 um syringe filter	—	

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Continued from page ____

Continued on page ____

3/16/06
Prep Chemist / Date

K Carly 03/16/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 6020 Water 200.8
As of 04/08/06

Analyte	Units	MET05
Aluminum	ug/L	1.0
Antimony	ug/L	0.078
Arsenic	ug/L	0.65
Barium	ug/L	0.23
Beryllium	ug/L	0.055
Cadmium	ug/L	0.14
Calcium	ug/L	15
Chromium	ug/L	0.085
Cobalt	ug/L	0.034
Copper	ug/L	0.31
Iron	ug/L	4.2
Lead	ug/L	0.24
Magnesium	ug/L	2.1
Manganese	ug/L	0.082
Molybdenum	ug/L	0.062
Nickel	ug/L	0.16
Potassium	ug/L	8.9
Selenium	ug/L	0.35
Silver	ug/L	0.041
Sodium	ug/L	15
Thallium	ug/L	0.073
Vanadium	ug/L	0.15
Zinc	ug/L	0.52

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 7470A Water
As of 04/08/06

Analyte	Units	MET04
Mercury	ug/L	0.080

GENERAL CHEMISTRY

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	03/14/06
Units:	mg/L	Received:	03/15/06
Diln Fac:	1.000	Analyzed:	03/28/06
Batch#:	111772		

Field ID: DAEGW03 Lab ID: 185558-011
Type: SAMPLE

Analyte		Result	RL
Alkalinity, Bicarbonate		600	1.0
Alkalinity, Carbonate	ND		1.0
Alkalinity, Hydroxide	ND		1.0
Alkalinity, Total as CaCO3		600	1.0

Field ID: DAEGW04 Lab ID: 185558-012
Type: SAMPLE

Analyte		Result	RL
Alkalinity, Bicarbonate		370	1.0
Alkalinity, Carbonate	ND		1.0
Alkalinity, Hydroxide	ND		1.0
Alkalinity, Total as CaCO3		370	1.0

Field ID: DAEGW05 Lab ID: 185558-013
Type: SAMPLE

Analyte		Result	RL
Alkalinity, Bicarbonate		470	1.0
Alkalinity, Carbonate	ND		1.0
Alkalinity, Hydroxide	ND		1.0
Alkalinity, Total as CaCO3		470	1.0

Field ID: DAEGW08 Lab ID: 185558-014
Type: SAMPLE

Analyte		Result	RL
Alkalinity, Bicarbonate		640	1.0
Alkalinity, Carbonate	ND		1.0
Alkalinity, Hydroxide	ND		1.0
Alkalinity, Total as CaCO3		640	1.0

Field ID: DAEGW103 Lab ID: 185558-015
Type: SAMPLE

Analyte		Result	RL
Alkalinity, Bicarbonate		110	1.0
Alkalinity, Carbonate	ND		1.0
Alkalinity, Hydroxide	ND		1.0
Alkalinity, Total as CaCO3		110	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	03/14/06
Units:	mg/L	Received:	03/15/06
Diln Fac:	1.000	Analyzed:	03/28/06
Batch#:	111772		

Field ID: 600GW109 Lab ID: 185558-016
Type: SAMPLE

Analyte		Result	RL
Alkalinity, Bicarbonate		380	1.0
Alkalinity, Carbonate	ND		1.0
Alkalinity, Hydroxide	ND		1.0
Alkalinity, Total as CaCO3		380	1.0

Field ID: 1065MW102 Lab ID: 185558-017
Type: SAMPLE

Analyte		Result	RL
Alkalinity, Bicarbonate		150	1.0
Alkalinity, Carbonate	ND		1.0
Alkalinity, Hydroxide	ND		1.0
Alkalinity, Total as CaCO3		150	1.0

Field ID: 1065PZ1A Lab ID: 185558-018
Type: SAMPLE

Analyte		Result	RL
Alkalinity, Bicarbonate		500	1.0
Alkalinity, Carbonate	ND		1.0
Alkalinity, Hydroxide	ND		1.0
Alkalinity, Total as CaCO3		500	1.0

Field ID: 231PZ04 Lab ID: 185558-019
Type: SAMPLE

Analyte		Result	RL
Alkalinity, Bicarbonate		570	1.0
Alkalinity, Carbonate	ND		1.0
Alkalinity, Hydroxide	ND		1.0
Alkalinity, Total as CaCO3		570	1.0

Field ID: 231PZ03 Lab ID: 185558-020
Type: SAMPLE

Analyte		Result	RL
Alkalinity, Bicarbonate		520	1.0
Alkalinity, Carbonate	ND		1.0
Alkalinity, Hydroxide	ND		1.0
Alkalinity, Total as CaCO3		520	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	03/14/06
Units:	mg/L	Received:	03/15/06
Diln Fac:	1.000	Analyzed:	03/28/06
Batch#:	111772		

Field ID: 231PZ01 Lab ID: 185558-022
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	760	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	760	1.0

Field ID: 231GW15 Lab ID: 185558-026
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	300	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	300	1.0

Field ID: 231GW13 Lab ID: 185558-027
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	420	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	420	1.0

Type: BLANK Lab ID: QC333383

Analyte	Result	RL
Alkalinity, Bicarbonate	ND	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Units:	mg/L
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC333384	Batch#:	111772
Matrix:	Water	Analyzed:	03/28/06

Spiked	Result	%REC	Limits
200.0	186.0	93	90-110

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Diln Fac:	1.000
Field ID:	600GW102	Batch#:	111772
MSS Lab ID:	185586-001	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	mg/L	Analyzed:	03/28/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC333385	446.4	200.0	738.4	96	69-112		
MSD	QC333386		200.0	758.9	106	69-112	3	25

RPD= Relative Percent Difference

Analysis: **Alkalinity** Analysis Date: **03/28/06** H_2SO_4 Normality = **0.0186**

Method: **EPA 310.1** / SMWW 2320B Batch No: **111772** conc.(mg/L) Na_2CO_3 for QC = **200**

SOP#: Alkalinity_rv 6.doc Analyst: RS

SAMPLE	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alkalinity Volume (4.5-4.2) (mL)	**Low Alkalinity** as $CaCO_3$ (mg/L)	Reporting Limit (mg/L)
185541-1	6.65	25	0.00	29.50	1097.40		n/a	1.0
185541-2	7.26	25	0.00	61.00	2269.20		n/a	1.0
185541-3	6.87	25	0.00	61.00	2269.20		n/a	1.0
185541-4	6.68	25	0.00	27.50	1023.00		n/a	1.0
185558-11	7.44	25	0.00	16.00	595.20		n/a	1.0
185558-12	7.20	25	0.00	10.00	372.00		n/a	1.0
185558-13	6.97	25	0.00	12.70	472.44		n/a	1.0
185558-14	6.79	25	0.00	17.30	643.56		n/a	1.0
185558-15	6.59	25	0.00	3.00	111.60		n/a	1.0
185558-16	6.89	25	0.00	10.30	383.16		n/a	1.0
185558-17	6.98	25	0.00	4.00	148.80		n/a	1.0
185558-18	7.04	25	0.00	13.40	498.48		n/a	1.0
185558-19	6.96	25	0.00	15.40	572.88		n/a	1.0
185558-20	6.99	25	0.00	14.00	520.80		n/a	1.0
185558-22	7.38	25	0.00	20.50	762.60		n/a	1.0
185558-26	7.73	25	0.00	8.00	297.60		n/a	1.0
185558-27	7.63	25	0.00	11.40	424.08		n/a	1.0
185577-11	6.93	25	0.00	25.10	933.72		n/a	1.0
185586-1	7.04	25	0.00	12.00	446.40		n/a	1.0
185586-2	6.95	25	0.00	14.70	546.84		n/a	1.0

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QC DATA	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alk Vol (mL)	**Low Alk** as $CaCO_3$ (mg/L)	RL (mg/L)	% Rec.	% RPD
MB	5.02	25	0.00	0.00	ND			1.0		
LCS	9.54	25	2.00	5.00	186.00			1.0	93	
185586-2	6.95	25	0.00	14.70	546.84		n/a	1.0		
MS	7.34	25	1.90	19.85	738.42			1.0	96	
MSD	7.32	25	1.90	20.40	758.88			1.0	106	3

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	25	80 - 120

Reviewed by/ Date: 3-29-6

Curtis Tompkins, Ltd.

Template: F:\inorgan\wetstuff\alkalinity.xls
Ver.8.3, Effective 6/03/04

Analysis: **Alkalinity** Analysis Date: 03/28/06 H_2SO_4 Normality = 0.0186

Method: **EPA 310.1** Batch No: 111772 Analyst: RS

SAMPLE	(P)	(T-P)	Total Alkalinty as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity	Carbonate Alkalinity	Hydroxide Alkalinity
				as $CaCO_3$ (mg/L)		
185541-1	0.0	1097.4	1097.4	1097.400	0.000	0.000
185541-2	0.0	2269.2	2269.2	2269.200	0.000	0.000
185541-3	0.0	2269.2	2269.2	2269.200	0.000	0.000
185541-4	0.0	1023.0	1023	1023.000	0.000	0.000
185558-11	0.0	595.2	595.2	595.200	0.000	0.000
185558-12	0.0	372.0	372	372.000	0.000	0.000
185558-13	0.0	472.4	472.44	472.440	0.000	0.000
185558-14	0.0	643.6	643.56	643.560	0.000	0.000
185558-15	0.0	111.6	111.6	111.600	0.000	0.000
185558-16	0.0	383.2	383.16	383.160	0.000	0.000
185558-17	0.0	148.8	148.8	148.800	0.000	0.000
185558-18	0.0	498.5	498.48	498.480	0.000	0.000
185558-19	0.0	572.9	572.88	572.880	0.000	0.000
185558-20	0.0	520.8	520.8	520.800	0.000	0.000
185558-22	0.0	762.6	762.6	762.600	0.000	0.000
185558-26	0.0	297.6	297.6	297.600	0.000	0.000
185558-27	0.0	424.1	424.08	424.080	0.000	0.000
185577-11	0.0	933.7	933.72	933.720	0.000	0.000
185586-1	0.0	446.4	446.4	446.400	0.000	0.000
185586-2	0.0	546.8	546.84	546.840	0.000	0.000

P: Phenolphthalein Alkalinity (using volume to pH 8.3)
T-P: Total Alkalinity minus Phenolphthalein Alkalinity

Carbonate Alkalinity = 2x the smaller of P or (T-P)
Bicarbonate Alkalinity = (T-2P) when P < (T-P)
Hydroxide Alkalinity = (2P-T) when (T-P) < P

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Analysis: **Alkalinity** Analysis Date: 03/28/06 H_2SO_4 Normality = 0.0186

Method: **EPA 310.1** Batch No: 111772 Analyst: RS

SAMPLE	**Total Alkalinty** as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity **as HCO_3^- (mg/L)**	Carbonate Alkalinity **as CO_3^{2-} (mg/L)**	Hydroxide Alkalinity **as OH^- (mg/L)**
185541-1	1097.4	1338.00	0.000	0.00
185541-2	2269.2	2766.72	0.000	0.00
185541-3	2269.2	2766.72	0.000	0.00
185541-4	1023	1247.29	0.000	0.00
185558-11	595.2	725.70	0.000	0.00
185558-12	372	453.56	0.000	0.00
185558-13	472.44	576.02	0.000	0.00
185558-14	643.56	784.66	0.000	0.00
185558-15	111.6	136.07	0.000	0.00
185558-16	383.16	467.17	0.000	0.00
185558-17	148.8	181.42	0.000	0.00
185558-18	498.48	607.77	0.000	0.00
185558-19	572.88	698.48	0.000	0.00
185558-20	520.8	634.98	0.000	0.00
185558-22	762.6	929.80	0.000	0.00
185558-26	297.6	362.85	0.000	0.00
185558-27	424.08	517.06	0.000	0.00
185577-11	933.72	1138.44	0.000	0.00
185586-1	446.4	544.27	0.000	0.00
185586-2	546.84	666.73	0.000	0.00

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Alkalinity Benchbook EPA 310.1 / SMWW 2320B Curtis & Tompkins, Ltd.

LIMS Batch #: 111772 Date: 3-28-06 Benchbook#: **BK 2255**
Matrix: H_2O Time: 12:45 Page: **20**

CAL-ph 4.0: SS#: 055514
CAL-ph 7.0: SS#: 5177
CAL-ph 10.0: SS#: 51169
Slope: 98.9
(slope limits: 92 - 102)

$CaCO_3$ Vol (mgL) Spiked: 5
$CaCO_3$ Conc (mg/L): 1,000
$CaCO_3$ WS#: 51576
H_2SO_4 Normality: 0.0186
H_2SO_4 Reagent ID: 4-27-06

	Sample # / Letter	Sample Vol. Titrated (mL)	Initial pH (S.U.)	H_2SO_4 Vol (mL) to pH 8.3	H_2SO_4 Vol (mL) to pH 4.5 *	Low Alk TotalVol (mL)	Comments
1	MB	25	5.02	— ~~<0.05~~ RS 3/28	<0.05		
	LCS		9.54	2.00	5.00		
	185541-001L		6.65	—	29.50		
	-002		7.26	—	61.00		
5	-003		6.87	—	61.00		
	-004		6.68	—	27.5		
	185558-011H		7.44	—	16.00		
	-012 E		7.20	—	10.00		
	-013 H		6.97	—	12.70		
10	-014		6.79	—	17.30		
	-015		6.59	—	3.00		
	-016 K		6.89	—	10.30		
	-017		6.98	—	4.00		
	-018		7.04 ~~6.72~~ RS 3/28	—	13.40		
15	-019		6.96	—	15.40		
	-020		6.99	—	14.00		
	-022		7.38	—	20.50		
	-026		7.73	—	8.00		
	-027		7.63	—	11.40		
20	185577-011I		6.93	—	25.10		
	185586-001K		7.04	—	12.00		
	-002		6.95	—	14.70		
	MS -002		7.34	—	19.85		
	MSD -002		7.32	—	20.40		
					RS 3/28/06		

* If Acid Vol to 4.5 is < 2.0mL, redo using 100mL sample volume. If still < 2.0mL, go on to Low Alkalinity.

RShiffa 3/28/06
Analyst / Date

3-29-06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111772
Date Started: 28-MAR-2006
Batched by : Radia Shiffa

Analysis : ALKALINITY
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185541-001			Arcadis G&M	Water	ALKALINITY	28-MAR-2006
185541-002			Arcadis G&M	Water	ALKALINITY	28-MAR-2006
185541-003			Arcadis G&M	Water	ALKALINITY	28-MAR-2006
185541-004			Arcadis G&M	Water	ALKALINITY	28-MAR-2006
185558-011			Treadwell & Rollo	Water	ALKALINITY	27-MAR-2006
185558-012			Treadwell & Rollo	Water	ALKALINITY	27-MAR-2006
185558-013			Treadwell & Rollo	Water	ALKALINITY	27-MAR-2006
185558-014			Treadwell & Rollo	Water	ALKALINITY	27-MAR-2006
185558-015			Treadwell & Rollo	Water	ALKALINITY	27-MAR-2006
185558-016			Treadwell & Rollo	Water	ALKALINITY	27-MAR-2006
185558-017			Treadwell & Rollo	Water	ALKALINITY	27-MAR-2006
185558-018			Treadwell & Rollo	Water	ALKALINITY	27-MAR-2006
185558-019			Treadwell & Rollo	Water	ALKALINITY	27-MAR-2006
185558-020			Treadwell & Rollo	Water	ALKALINITY	27-MAR-2006
185558-022			Treadwell & Rollo	Water	ALKALINITY	27-MAR-2006
185558-026			Treadwell & Rollo	Water	ALKALINITY	27-MAR-2006
185558-027			Treadwell & Rollo	Water	ALKALINITY	27-MAR-2006
185577-011			Arcadis G&M	Water	ALKALINITY	28-MAR-2006
185586-001			Treadwell & Rollo	Water	ALKALINITY	28-MAR-2006
185586-002			Treadwell & Rollo	Water	ALKALINITY	28-MAR-2006
QC333383	BLANK			Water	ALKALINITY	
QC333384	LCS			Water	ALKALINITY	
QC333385	MS	of 185586-001		Water	ALKALINITY	
QC333386	MSD	of 185586-001		Water	ALKALINITY	

Curtis & Tompkins, Ltd.

Chloride

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Batch#:	111352
Matrix:	Water	Received:	03/15/06
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Diln Fac	Sampled	Analyzed
DAEGW03	SAMPLE	185558-011	110	5.0	25.00	03/14/06 11:40	03/15/06 17:46
DAEGW04	SAMPLE	185558-012	140	5.0	25.00	03/14/06 15:10	03/16/06 03:24
DAEGW05	SAMPLE	185558-013	130	5.0	25.00	03/14/06 12:40	03/16/06 04:52
DAEGW08	SAMPLE	185558-014	150	5.0	25.00	03/14/06 10:15	03/16/06 05:09
DAEGW103	SAMPLE	185558-015	59	2.0	10.00	03/14/06 13:50	03/16/06 05:27
600GW109	SAMPLE	185558-016	44	2.0	10.00	03/14/06 16:00	03/16/06 05:44
1065MW102	SAMPLE	185558-017	26	1.0	5.000	03/14/06 10:30	03/16/06 06:02
1065PZ1A	SAMPLE	185558-018	64	5.0	25.00	03/14/06 11:35	03/16/06 06:19
231PZ04	SAMPLE	185558-019	29	5.0	25.00	03/14/06 13:50	03/16/06 06:37
231PZ03	SAMPLE	185558-020	32	5.0	25.00	03/14/06 14:35	03/16/06 06:54
231PZ01	SAMPLE	185558-022	48	5.0	25.00	03/14/06 16:30	03/16/06 07:12
231GW15	SAMPLE	185558-026	57	2.0	10.00	03/14/06 16:50	03/16/06 07:29
231GW13	SAMPLE	185558-027	160	5.0	25.00	03/14/06 16:00	03/16/06 08:57
	BLANK	QC331700	ND	0.20	1.000		03/15/06 16:54

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Fluoride

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Diln Fac:	1.000
Matrix:	Water	Batch#:	111352
Units:	mg/L	Received:	03/15/06

Field ID	Type	Lab ID	Result	RL	Sampled	Analyzed
DAEGW03	SAMPLE	185558-011	ND	0.10	03/14/06 11:40	03/15/06 18:39
DAEGW04	SAMPLE	185558-012	ND	0.10	03/14/06 15:10	03/15/06 19:14
DAEGW05	SAMPLE	185558-013	0.10	0.10	03/14/06 12:40	03/15/06 19:49
DAEGW08	SAMPLE	185558-014	ND	0.10	03/14/06 10:15	03/15/06 20:24
DAEGW103	SAMPLE	185558-015	ND	0.10	03/14/06 13:50	03/15/06 22:09
600GW109	SAMPLE	185558-016	ND	0.10	03/14/06 16:00	03/15/06 22:44
1065MW102	SAMPLE	185558-017	0.25	0.10	03/14/06 10:30	03/15/06 23:19
1065PZ1A	SAMPLE	185558-018	0.19	0.10	03/14/06 11:35	03/15/06 23:54
231PZ04	SAMPLE	185558-019	0.24	0.10	03/14/06 13:50	03/16/06 00:29
231PZ03	SAMPLE	185558-020	0.21	0.10	03/14/06 14:35	03/16/06 01:04
231PZ01	SAMPLE	185558-022	0.24	0.10	03/14/06 16:30	03/16/06 01:39
231GW15	SAMPLE	185558-026	0.11	0.10	03/14/06 16:50	03/16/06 02:14
231GW13	SAMPLE	185558-027	0.51	0.10	03/14/06 16:00	03/16/06 02:49
	BLANK	QC331700	ND	0.10		03/15/06 16:54

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrate Nitrogen

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Batch#:	111352
Matrix:	Water	Received:	03/15/06
Units:	mg/L		

Field ID	Type	Lab ID		Result	RL	Diln Fac	Sampled	Analyzed
DAEGW03	SAMPLE	185558-011		0.53	0.05	1.000	03/14/06 11:40	03/15/06 18:39
DAEGW04	SAMPLE	185558-012		1.2	0.05	1.000	03/14/06 15:10	03/15/06 19:14
DAEGW05	SAMPLE	185558-013		1.9	0.05	1.000	03/14/06 12:40	03/15/06 19:49
DAEGW08	SAMPLE	185558-014	ND		0.05	1.000	03/14/06 10:15	03/15/06 20:24
DAEGW103	SAMPLE	185558-015		5.2	0.50	10.00	03/14/06 13:50	03/16/06 05:27
600GW109	SAMPLE	185558-016		0.52	0.05	1.000	03/14/06 16:00	03/15/06 22:44
1065MW102	SAMPLE	185558-017		0.13	0.05	1.000	03/14/06 10:30	03/15/06 23:19
1065PZ1A	SAMPLE	185558-018		0.76	0.05	1.000	03/14/06 11:35	03/15/06 23:54
231PZ04	SAMPLE	185558-019	ND		0.05	1.000	03/14/06 13:50	03/16/06 00:29
231PZ03	SAMPLE	185558-020	ND		0.05	1.000	03/14/06 14:35	03/16/06 01:04
231PZ01	SAMPLE	185558-022	ND		0.05	1.000	03/14/06 16:30	03/16/06 01:39
231GW15	SAMPLE	185558-026	ND		0.05	1.000	03/14/06 16:50	03/16/06 02:14
231GW13	SAMPLE	185558-027		0.07	0.05	1.000	03/14/06 16:00	03/16/06 02:49
	BLANK	QC331700	ND		0.05	1.000		03/15/06 16:54

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrite Nitrogen

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Diln Fac:	1.000
Matrix:	Water	Batch#:	111352
Units:	mg/L	Received:	03/15/06

Field ID	Type	Lab ID	Result	RL	Sampled	Analyzed
DAEGW03	SAMPLE	185558-011	ND	0.05	03/14/06 11:40	03/15/06 18:39
DAEGW04	SAMPLE	185558-012	ND	0.05	03/14/06 15:10	03/15/06 19:14
DAEGW05	SAMPLE	185558-013	ND	0.05	03/14/06 12:40	03/15/06 19:49
DAEGW08	SAMPLE	185558-014	ND	0.05	03/14/06 10:15	03/15/06 20:24
DAEGW103	SAMPLE	185558-015	ND	0.05	03/14/06 13:50	03/15/06 22:09
600GW109	SAMPLE	185558-016	ND	0.05	03/14/06 16:00	03/15/06 22:44
1065MW102	SAMPLE	185558-017	ND	0.05	03/14/06 10:30	03/15/06 23:19
1065PZ1A	SAMPLE	185558-018	ND	0.05	03/14/06 11:35	03/15/06 23:54
231PZ04	SAMPLE	185558-019	ND	0.05	03/14/06 13:50	03/16/06 00:29
231PZ03	SAMPLE	185558-020	ND	0.05	03/14/06 14:35	03/16/06 01:04
231PZ01	SAMPLE	185558-022	ND	0.05	03/14/06 16:30	03/16/06 01:39
231GW15	SAMPLE	185558-026	ND	0.05	03/14/06 16:50	03/16/06 02:14
231GW13	SAMPLE	185558-027	ND	0.05	03/14/06 16:00	03/16/06 02:49
	BLANK	QC331700	ND	0.05		03/15/06 16:54

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Sulfate

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Batch#:	111352
Matrix:	Water	Received:	03/15/06
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Diln Fac	Sampled	Analyzed
DAEGW03	SAMPLE	185558-011	110	13	25.00	03/14/06 11:40	03/15/06 17:46
DAEGW04	SAMPLE	185558-012	56	13	25.00	03/14/06 15:10	03/16/06 03:24
DAEGW05	SAMPLE	185558-013	100	13	25.00	03/14/06 12:40	03/16/06 04:52
DAEGW08	SAMPLE	185558-014	170	13	25.00	03/14/06 10:15	03/16/06 05:09
DAEGW103	SAMPLE	185558-015	35	0.50	1.000	03/14/06 13:50	03/15/06 22:09
600GW109	SAMPLE	185558-016	41	0.50	1.000	03/14/06 16:00	03/15/06 22:44
1065MW102	SAMPLE	185558-017	16	0.50	1.000	03/14/06 10:30	03/15/06 23:19
1065PZ1A	SAMPLE	185558-018	14	0.50	1.000	03/14/06 11:35	03/15/06 23:54
231PZ04	SAMPLE	185558-019	ND	0.50	1.000	03/14/06 13:50	03/16/06 00:29
231PZ03	SAMPLE	185558-020	ND	0.50	1.000	03/14/06 14:35	03/16/06 01:04
231PZ01	SAMPLE	185558-022	0.78	0.50	1.000	03/14/06 16:30	03/16/06 01:39
231GW15	SAMPLE	185558-026	28	0.50	1.000	03/14/06 16:50	03/16/06 02:14
231GW13	SAMPLE	185558-027	ND	0.50	1.000	03/14/06 16:00	03/16/06 02:49
	BLANK	QC331700	ND	0.50	1.000		03/15/06 16:54

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chloride

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Units:	mg/L
Field ID:	DAEGW03	Batch#:	111352
MSS Lab ID:	185558-011	Sampled:	03/14/06 11:40
Matrix:	Water	Received:	03/15/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed
BS	QC331701		4.000	3.971	99	80-120			1.000	03/15/06 17:11
BSD	QC331702		4.000	3.927	98	80-120	1	20	1.000	03/15/06 17:29
MS	QC331703	106.3	50.00	156.3	100	80-120			25.00	03/15/06 18:04
MSD	QC331704		50.00	155.8	99	80-120	0	25	25.00	03/15/06 18:22

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Fluoride

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Units:	mg/L
Field ID:	DAEGW03	Batch#:	111352
MSS Lab ID:	185558-011	Sampled:	03/14/06 11:40
Matrix:	Water	Received:	03/15/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed
BS	QC331701		2.000	1.957	98	80-120			1.000	03/15/06 17:11
BSD	QC331702		2.000	1.927	96	80-120	2	20	1.000	03/15/06 17:29
MS	QC331703	0.07618	25.00	23.50	94	77-120			25.00	03/15/06 18:04
MSD	QC331704		25.00	23.51	94	77-120	0	20	25.00	03/15/06 18:22

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrate Nitrogen

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Units:	mg/L
Field ID:	DAEGW03	Batch#:	111352
MSS Lab ID:	185558-011	Sampled:	03/14/06 11:40
Matrix:	Water	Received:	03/15/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed
BS	QC331701		1.000	1.005	101	80-120			1.000	03/15/06 17:11
BSD	QC331702		1.000	1.001	100	80-120	0	20	1.000	03/15/06 17:29
MS	QC331703	0.5298	12.50	12.85	99	80-120			25.00	03/15/06 18:04
MSD	QC331704		12.50	12.99	100	80-120	1	25	25.00	03/15/06 18:22

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrite Nitrogen

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Units:	mg/L
Field ID:	DAEGW03	Batch#:	111352
MSS Lab ID:	185558-011	Sampled:	03/14/06 11:40
Matrix:	Water	Received:	03/15/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed
BS	QC331701		1.000	0.9763	98	80-120			1.000	03/15/06 17:11
BSD	QC331702		1.000	0.9703	97	80-120	1	20	1.000	03/15/06 17:29
MS	QC331703	<0.006664	12.50	12.69	102	80-120			25.00	03/15/06 18:04
MSD	QC331704		12.50	12.25	98	80-120	3	25	25.00	03/15/06 18:22

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Sulfate

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Units:	mg/L
Field ID:	DAEGW03	Batch#:	111352
MSS Lab ID:	185558-011	Sampled:	03/14/06 11:40
Matrix:	Water	Received:	03/15/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed
BS	QC331701		10.00	9.955	100	80-120			1.000	03/15/06 17:11
BSD	QC331702		10.00	9.842	98	80-120	1	20	1.000	03/15/06 17:29
MS	QC331703	110.7	125.0	236.5	101	80-120			25.00	03/15/06 18:04
MSD	QC331704		125.0	236.9	101	80-120	0	25	25.00	03/15/06 18:22

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185558 IC Water: EPA 300.0

Inst : IC01
Calnum : 606046871001
Units : mg/L

Date : 01-FEB-2006 13:28
X Axis : A

Reviewer: MCH
Inj Vol : 25 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	032_2.000	606046871002	L1	01-FEB-2006 13:28	S1888 (500X)
L2	032_3.000	606046871003	L2	01-FEB-2006 13:46	S1888 (100X)
L3	032_4.000	606046871004	L3	01-FEB-2006 14:03	S1888 (25X)
L4	032_5.000	606046871005	L4	01-FEB-2006 14:21	S1888 (10X)
L5	032_6.000	606046871006	L5	01-FEB-2006 14:38	S1888 (5X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Fluoride	0.2528	0.2613	0.2883	0.2940	0.3105	QORG		0.27855	0.003187	0.2814	1.000	0.990	
Chloride	0.1745	0.1698	0.1822	0.1890	0.2055	QORG		0.17357	0.001594	0.1842	1.000	0.990	
Nitrogen, Nitrite	0.3864	0.3575	0.3722	0.3676	0.3830	QORG		0.35745	0.005065	0.3733	1.000	0.990	
Nitrogen, Nitrate	0.4498	0.4302	0.4579	0.4590	0.4824	QORG		0.44011	0.008413	0.4558	1.000	0.990	
Sulfate	0.1233	0.1237	0.1314	0.1331	0.1412	QORG		0.12610	3.005E-4	0.1305	1.000	0.990	

784

QORG=Quadratic regression forced through origin

Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 300.0

Inst : IC01
Calnum : 606046871001 Date : 01-FEB-2006 13:28 Inj Vol: 25 uL

mas 2/2/06

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	032_2.000	606046871002	L1	01-FEB-2006 13:28	S1888 (500X)
L2	032_3.000	606046871003	L2	01-FEB-2006 13:46	S1888 (100X)
L3	032_4.000	606046871004	L3	01-FEB-2006 14:03	S1888 (25X)
L4	032_5.000	606046871005	L4	01-FEB-2006 14:21	S1888 (10X)
L5	032_6.000	606046871006	L5	01-FEB-2006 14:38	S1888 (5X)

Analyte	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MnR^2	Flags
Fluoride	0.2528	0.2613	0.2883	0.2940	0.3105	QORG	A		0.278548	0.003187	mg/L	0.2814	1.000	0.990	
Chloride	0.1745	0.1698	0.1822	0.1890	0.2055	QORG	A		0.173571	0.001594	mg/L	0.1842	1.000	0.990	
Nitrogen, Nitrite	0.3864	0.3575	0.3722	0.3676	0.3830	QORG	A		0.357447	0.005065	mg/L	0.3733	1.000	0.990	
Bromide	0.0765	0.0774	0.0807	0.0787	0.0812	QORG	A		0.077484	1.818E-4	mg/L	0.0789	1.000	0.990	
Nitrogen, Nitrate	0.4498	0.4302	0.4579	0.4590	0.4824	QORG	A		0.440113	0.008413	mg/L	0.4558	1.000	0.990	
Orthophosphate (as P)	0.1717	0.2172	0.2560	0.2220	0.2112	QORG	A		0.242367	-0.00158	mg/L	0.2156	0.999	0.990	NT
Sulfate	0.1233	0.1237	0.1314	0.1331	0.1412	QORG	A		0.126102	3.005E-4	mg/L	0.1305	1.000	0.990	

MAS 2/1/06

785

NT = non-target

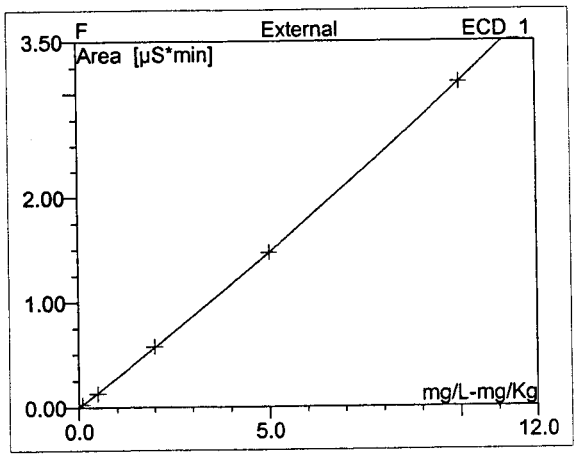
QORG=Quadratic regression forced through origin

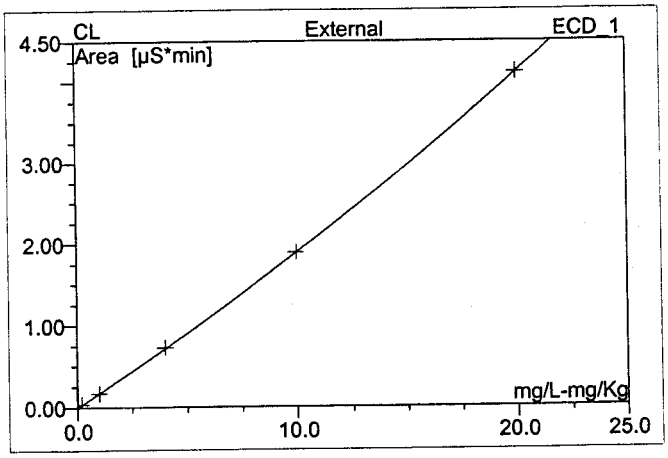
Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

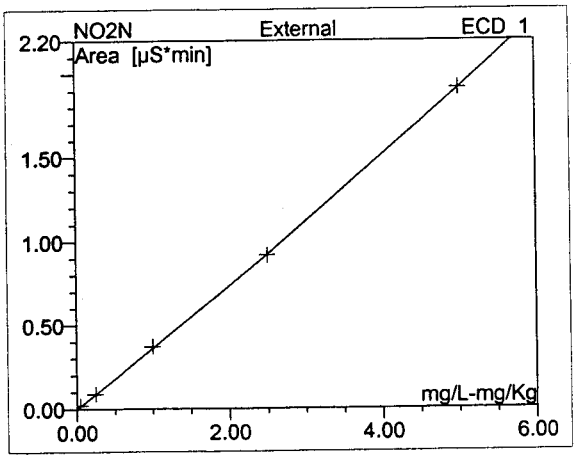
606046871001

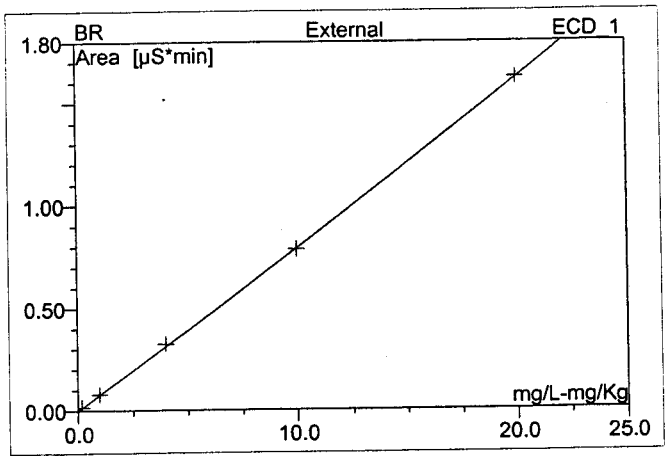
IC01 Calibration Batch Report

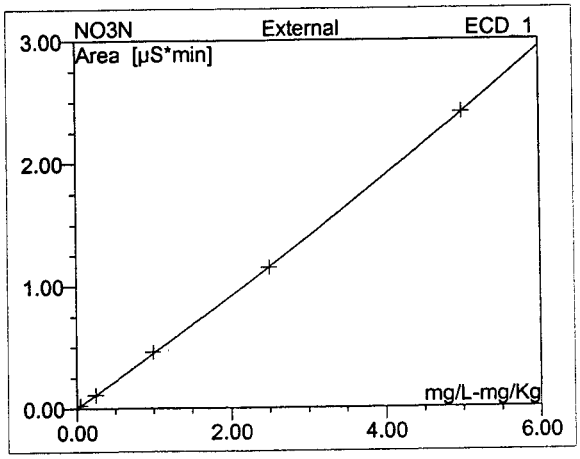
Sequence:	032	Inj. Vol.:	25.0
Program:	IC01-7AN	Operator:	PC_NEWIC
Inj. Date/Time:	02/01/06 14:03	Run Time:	15.00

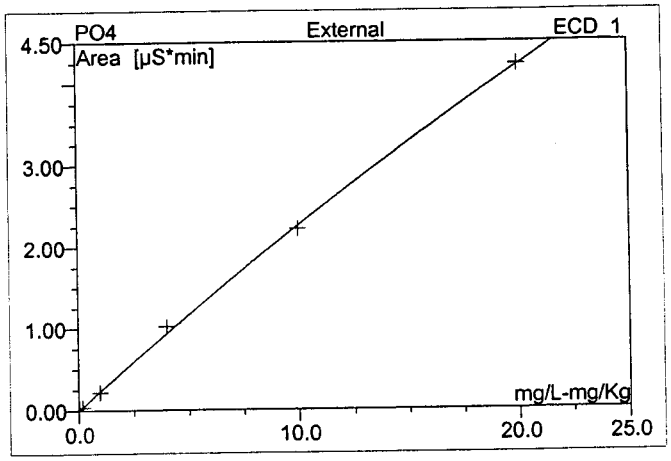




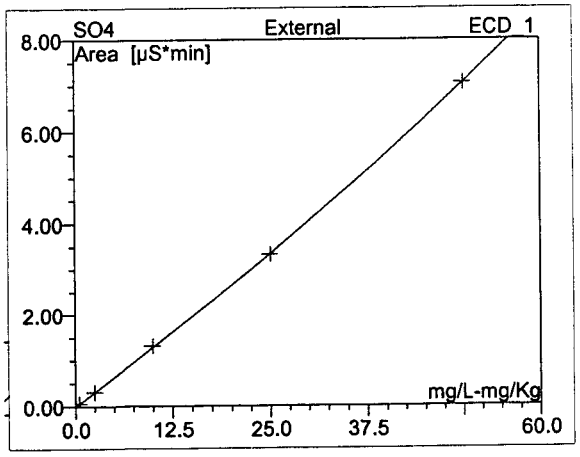








Sequence:	032	*Inj. Vol.:*	25.0
Program:	IC01-7AN	*Operator:*	n.a.
Inj. Date/Time:	02/01/06 14:03	*Run Time:*	15.00



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	3.37	F	Quad	5	0.000000	0.278548	0.003187	99.966068
2	4.89	CL	Quad	5	0.000000	0.173571	0.001594	99.916153
4	5.79	NO2N	Quad	5	0.000000	0.357447	0.005065	99.979455
5	7.33	BR	Quad	5	0.000000	0.077484	0.000182	99.987414
6	8.26	NO3N	Quad	5	0.000000	0.440112	0.008413	99.970779
7	10.28	PO4	Quad	5	0.000000	0.242367	-0.001578	99.885417
8	12.17	SO4	Quad	5	0.000000	0.126102	0.000301	99.958961
AVERAGE:					0.000000	0.242233	0.002452	99.952035

No.	Name	Area µS*min F ECD_1	Area µS*min CL ECD_1	Area µS*min NO2N ECD_1	Area µS*min BR ECD_1	Area µS*min NO3N ECD_1	Area µS*min PO4 ECD_1	Area µS*min SO4 ECD_1
2	ICAL,L1,S188	0.025275	0.034903	0.019321	0.015298	0.022490	0.034330	0.061629
3	ICAL,L2,S188	0.130653	0.169780	0.089380	0.077435	0.107540	0.217220	0.309323
4	ICAL,L3,S188	0.576603	0.728921	0.372151	0.322907	0.457889	1.024032	1.314019
5	ICAL,L4,S188	1.469972	1.890327	0.919106	0.786634	1.147425	2.219833	3.327253
6	ICAL,L5,S188	3.104502	4.110030	1.915021	1.623599	2.411883	4.224545	7.058845

No.	Name	Height µS F ECD_1	Height µS CL ECD_1	Height µS NO2N ECD_1	Height µS BR ECD_1	Height µS NO3N ECD_1	Height µS PO4 ECD_1	Height µS SO4 ECD_1
2	ICAL,L1,S188	0.214888	0.258158	0.107142	0.073826	0.090044	0.092472	0.173918
3	ICAL,L2,S188	1.091262	1.255538	0.520346	0.357736	0.437902	0.520594	0.860712
4	ICAL,L3,S188	4.846146	5.414854	2.167724	1.511584	1.866278	2.566166	3.696382
5	ICAL,L4,S188	12.797028	14.219142	5.393734	3.770806	4.728312	6.027548	9.511224
6	ICAL,L5,S188	27.169356	31.375536	11.293560	7.962244	10.100652	12.291378	20.783882

No.	Name	Amount mg/L-mg/Kg F ECD_1	Amount mg/L-mg/Kg CL ECD_1	Amount mg/L-mg/Kg NO2N ECD_1	Amount mg/L-mg/Kg BR ECD_1	Amount mg/L-mg/Kg NO3N ECD_1	Amount mg/L-mg/Kg PO4 ECD_1	Amount mg/L-mg/Kg SO4 ECD_1
2	ICAL,L1,S188	0.090645	0.200718	0.054011	0.197347	0.051052	0.141776	0.488153
3	ICAL,L2,S188	0.466559	0.969523	0.249171	0.997037	0.243215	0.901538	2.438779
4	ICAL,L3,S188	2.023200	4.048958	1.026211	4.127423	1.020484	4.348224	10.173592
5	ICAL,L4,S188	4.992160	9.976525	2.483881	9.921246	2.488719	9.781943	24.906875
6	ICAL,L5,S188	10.001057	20.003598	5.002836	20.014099	5.001893	20.046763	50.015285

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Inhibit Integration	On	ECD_1
2	3.000	Inhibit Integration	Off	ECD_1
3	3.010	Minimum Area	0.001 "[Signal]*min"	ECD_1
4	3.011	Peak Slice	0.05 s	ECD_1

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Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Comment	Amount ICAL,L1,S1888,500
1	F	3.347 min	5.000 RG	External	Area	Quad	Auto			0.100000
2	*CL*	*4.800 min*	*5.000 RG*	*External*	*Area*	*Quad*	*Auto*			*0.200000*
3	NO2N	5.653 min	5.000 RG	External	Area	Quad	Auto			0.050000
4	BR	7.107 min	5.000 RG	External	Area	Quad	Auto			0.200000
5	NO3N	7.997 min	10.000 RG	External	Area	Quad	Auto			0.050000
6	PO4	9.950 min	10.000 RG	External	Area	Quad	Auto			0.200000
7	SO4	11.803 min	10.000 RG	External	Area	Quad	Auto			0.500000

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Amount ICAL,L2,S1888,100	Amount ICAL,L3,S1888,25	Amount ICAL,L4,S1888,10	Amount ICAL,L5,S1888,5
1	F	3.347 min	0.500000	2.000000	5.000000	10.000000
2	*CL*	*4.800 min*	*1.000000*	*4.000000*	*10.000000*	*20.000000*
3	NO2N	5.653 min	0.250000	1.000000	2.500000	5.000000
4	BR	7.107 min	1.000000	4.000000	10.000000	20.000000
5	NO3N	7.997 min	0.250000	1.000000	2.500000	5.000000
6	PO4	9.950 min	1.000000	4.000000	10.000000	20.000000
7	SO4	11.803 min	2.500000	10.000000	25.000000	50.000000

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Resp.Fact.	Comment	Amount ICAL,L1,S1888,500	Amount ICAL,L2,S1888,100	Amount ICAL,L3,S1888,25	Amount ICAL,L4,S1888,10
1	F	3.347 min	1.000000		0.100000	0.500000	2.000000	5.000000
2	*CL*	*4.800 min*	*1.000000*		*0.200000*	*1.000000*	*4.000000*	*10.000000*
3	NO2N	5.653 min	1.000000		0.050000	0.250000	1.000000	2.500000
4	BR	7.107 min	1.000000		0.200000	1.000000	4.000000	10.000000
5	NO3N	7.997 min	1.000000		0.050000	0.250000	1.000000	2.500000
6	PO4	9.950 min	1.000000		0.200000	1.000000	4.000000	10.000000
7	SO4	11.803 min	1.000000		0.500000	2.500000	10.000000	25.000000

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Amount ICAL,L5,S1888,5
1	F	3.347 min	10.000000
2	*CL*	*4.800 min*	*20.000000*
3	NO2N	5.653 min	5.000000
4	BR	7.107 min	20.000000
5	NO3N	7.997 min	5.000000
6	PO4	9.950 min	20.000000
7	SO4	11.803 min	50.000000

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

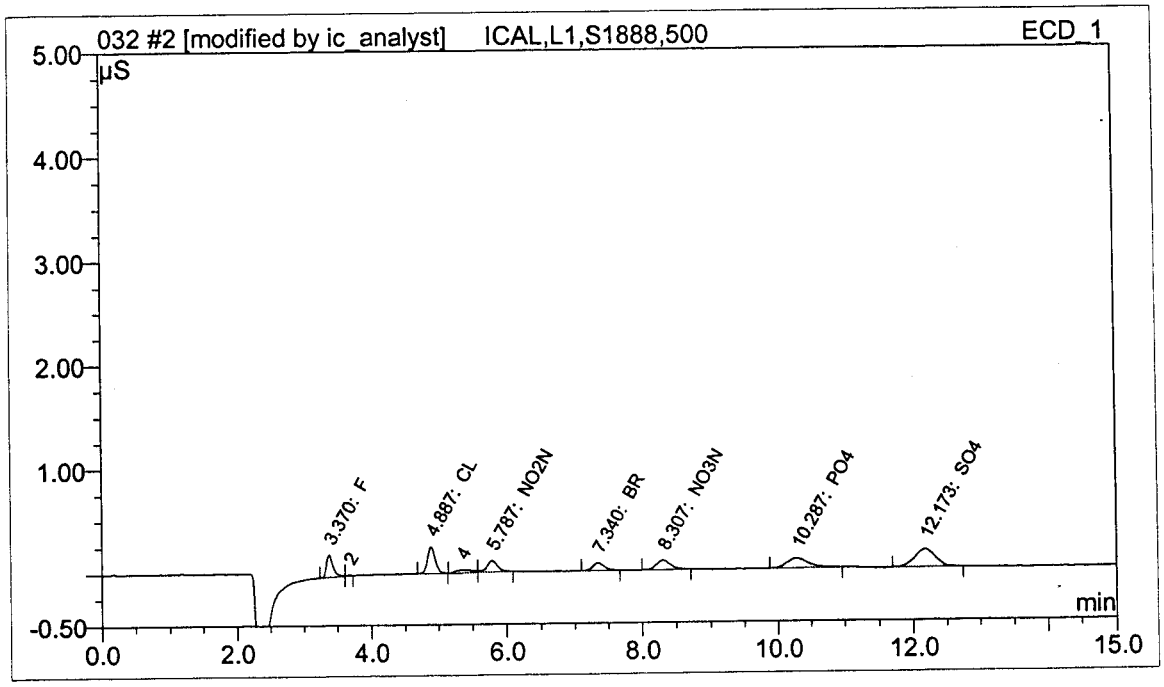
No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time	Calib. Comment
1	☒	ICAL,L1,S1888,500	2	70	25.0	1.0000	1.0000	1.0000	2/1/2006 1:28:35 PM	Ok
2	☒	ICAL,L2,S1888,100	3	35	25.0	1.0000	1.0000	1.0000	2/1/2006 1:46:06 PM	Ok
3	☒	ICAL,L3,S1888,25	4	35	25.0	1.0000	1.0000	1.0000	2/1/2006 2:03:37 PM	Ok
4	☒	ICAL,L4,S1888,10	5	36	25.0	1.0000	1.0000	1.0000	2/1/2006 2:21:08 PM	Ok
5	☒	ICAL,L5,S1888,5	6	37	25.0	1.0000	1.0000	1.0000	2/1/2006 2:38:38 PM	Ok

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L1,S1888,500	**Sample No.:**	2
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:28 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	0.025275	0.0906	0.0906	
3	CL	4.887	0.034903	0.2007	0.2007	
5	NO2N	5.787	0.019321	0.0540	0.0540	
6	BR	7.340	0.015298	0.1973	0.1973	
7	NO3N	8.307	0.022490	0.0511	0.0511	
8	PO4	10.287	0.034330	0.1418	0.1418	
9	SO4	12.173	0.061629	0.4882	0.4882	



ANALYZED BY: _____

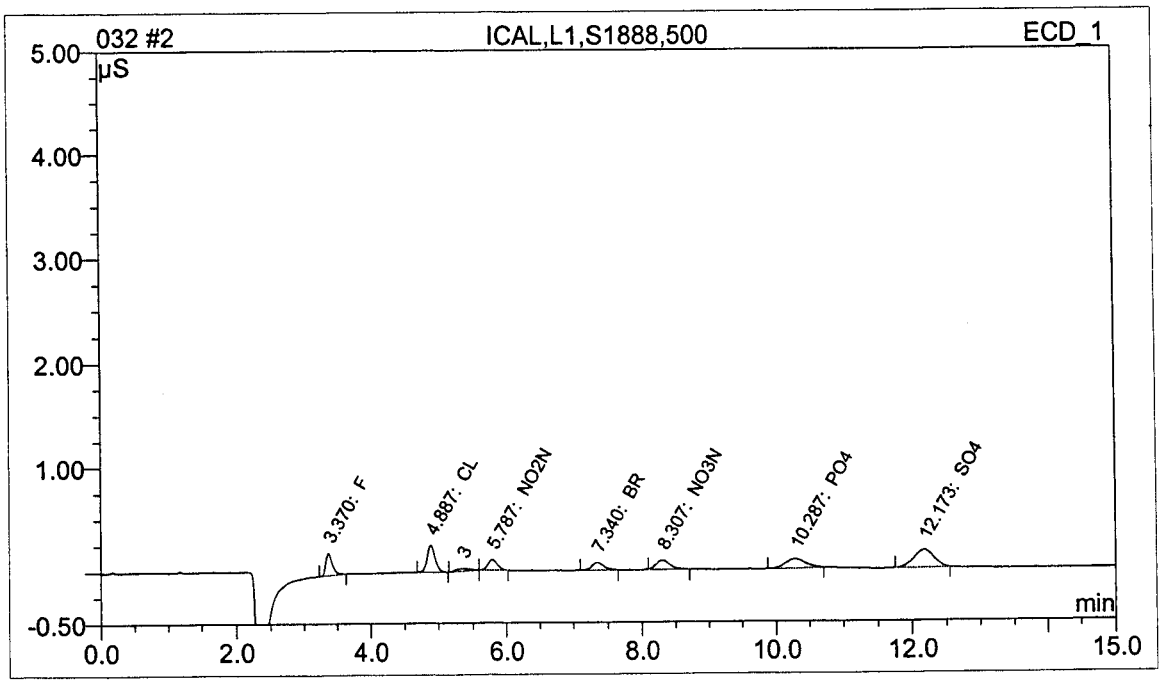
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L1,S1888,500	**Sample No.:**	2
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:28 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	0.024236	0.0869	0.0869	
2	CL	4.887	0.034903	0.2007	0.2007	
4	NO2N	5.787	0.015698	0.0439	0.0439	
5	BR	7.340	0.015043	0.1941	0.1941	
6	NO3N	8.307	0.020103	0.0456	0.0456	
7	PO4	10.287	0.031075	0.1283	0.1283	
8	SO4	12.173	0.056768	0.4497	0.4497	



ANALYZED BY: _____

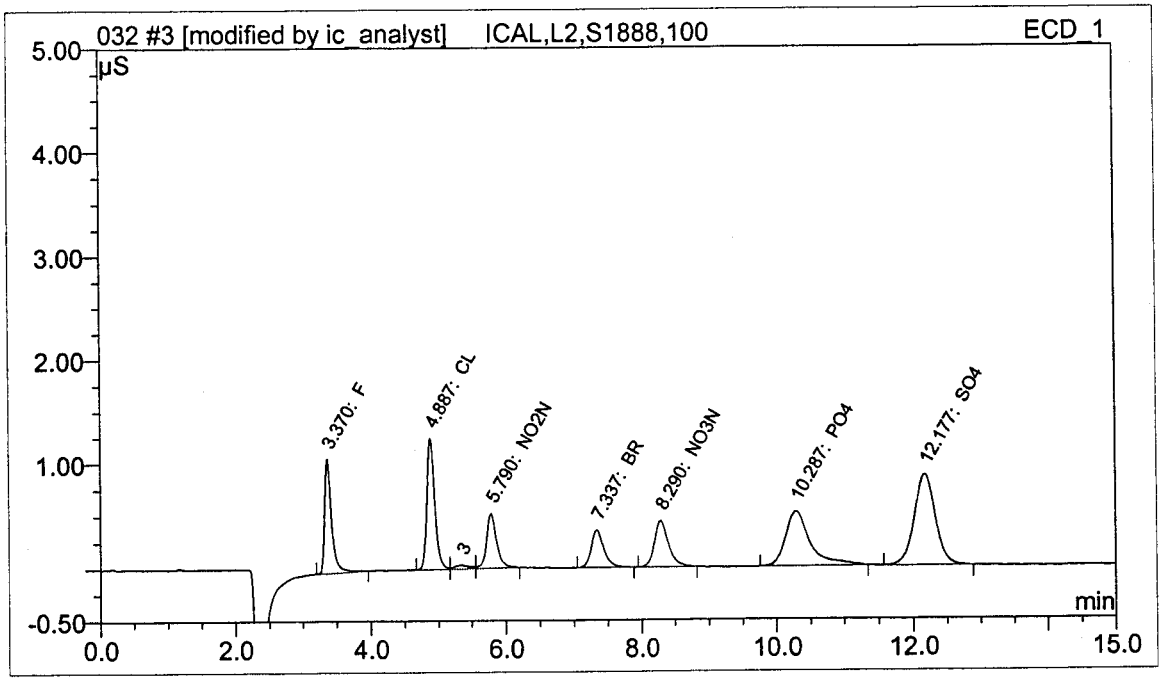
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L2,S1888,100	**Sample No.:**	3
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:46 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	0.130653	0.4666	0.4666	
2	CL	4.887	0.169780	0.9695	0.9695	
4	NO2N	5.790	0.089380	0.2492	0.2492	
5	BR	7.337	0.077435	0.9970	0.9970	
6	NO3N	8.290	0.107540	0.2432	0.2432	
7	PO4	10.287	0.217220	0.9015	0.9015	
8	SO4	12.177	0.309323	2.4388	2.4388	



ANALYZED BY: _____

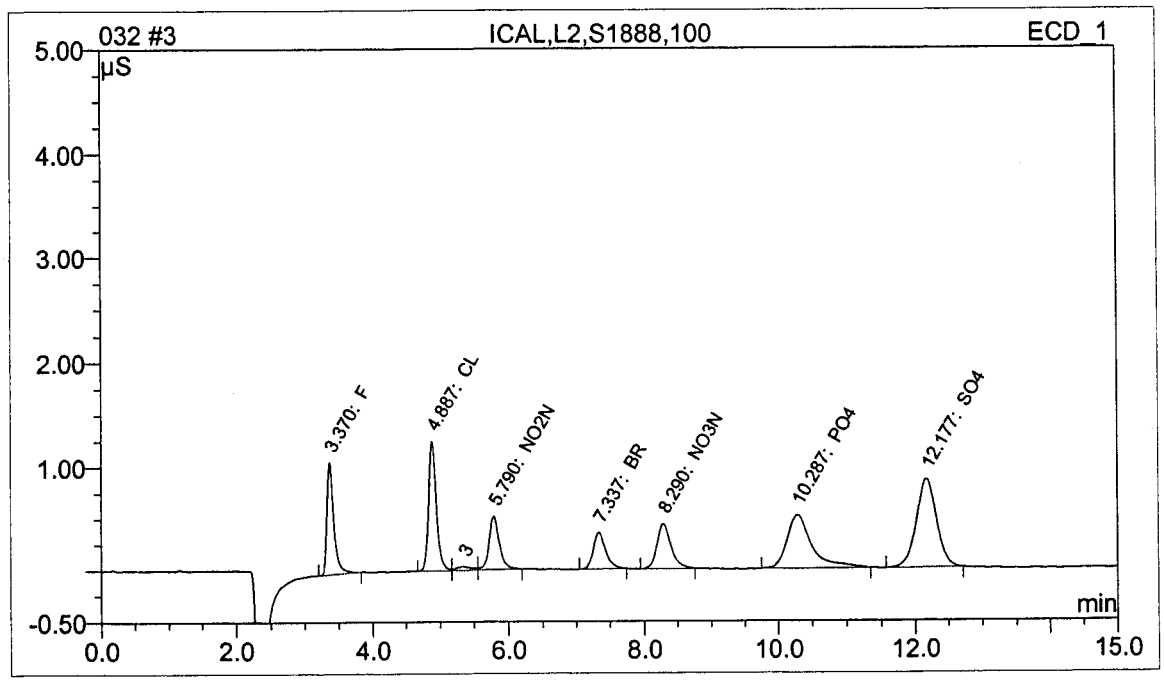
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L2,S1888,100	**Sample No.:**	3
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:46 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	0.127500	0.4556	0.4556	
2	CL	4.887	0.169780	0.9695	0.9695	
4	NO2N	5.790	0.089380	0.2492	0.2492	
5	BR	7.337	0.075668	0.9749	0.9749	
6	NO3N	8.290	0.106521	0.2410	0.2410	
7	PO4	10.287	0.217220	0.9015	0.9015	
8	SO4	12.177	0.303977	2.3979	2.3979	



ANALYZED BY: _____

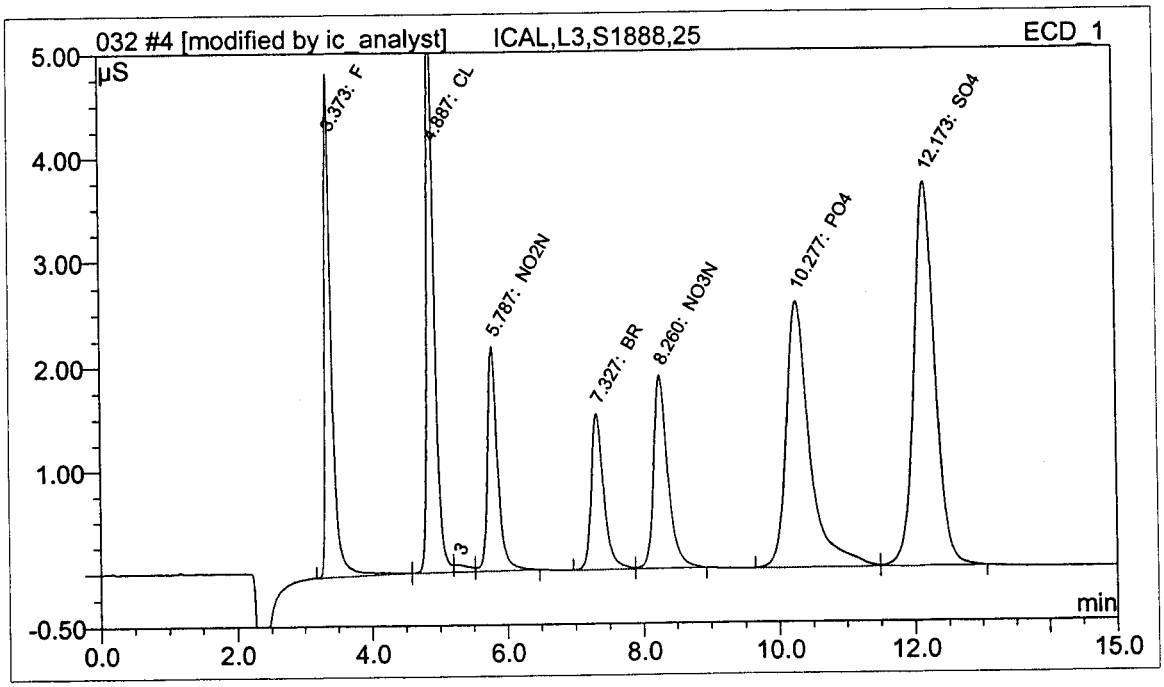
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L3,S1888,25	**Sample No.:**	4
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:03 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.373	0.576603	2.0232	2.0232	
2	CL	4.887	0.728921	4.0490	4.0490	
4	NO2N	5.787	0.372151	1.0262	1.0262	
5	BR	7.327	0.322907	4.1274	4.1274	
6	NO3N	8.260	0.457889	1.0205	1.0205	
7	PO4	10.277	1.024032	4.3482	4.3482	
8	SO4	12.173	1.314019	10.1736	10.1736	



ANALYZED BY: _____

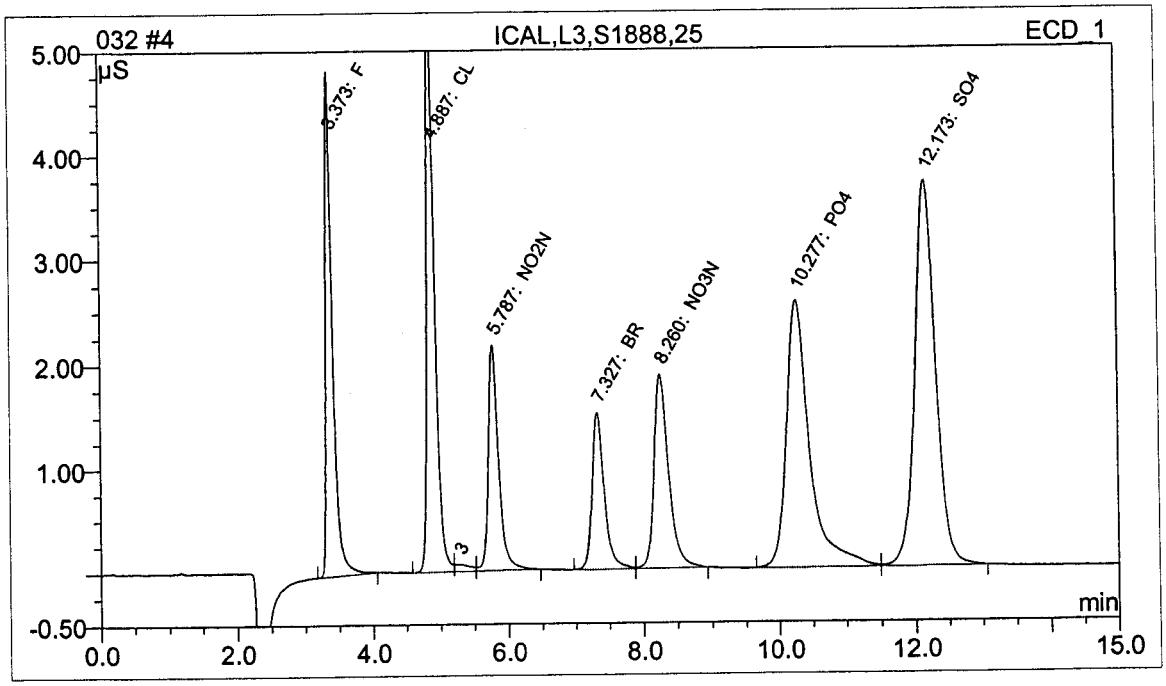
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L3,S1888,25	**Sample No.:**	4
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:03 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.373	0.560194	1.9831	1.9831	
2	CL	4.887	0.728921	4.0490	4.0490	
4	NO2N	5.787	0.372151	1.0262	1.0262	
5	BR	7.327	0.322907	4.1274	4.1274	
6	NO3N	8.260	0.457889	1.0205	1.0205	
7	PO4	10.277	1.024032	4.3482	4.3482	
8	SO4	12.173	1.314019	10.1736	10.1736	



ANALYZED BY: _____

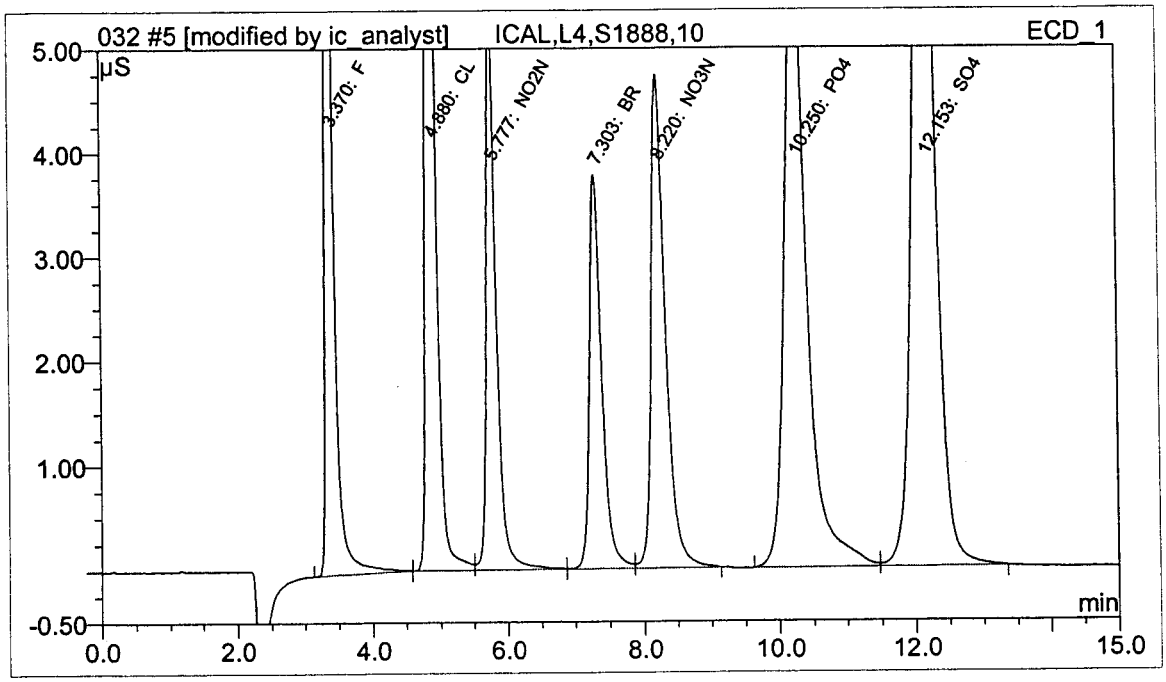
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L4,S1888,10	**Sample No.:**	5
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:21 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	1.469972	4.9922	4.9922	
2	CL	4.880	1.890327	9.9765	9.9765	
3	NO2N	5.777	0.919106	2.4839	2.4839	
4	BR	7.303	0.786634	9.9212	9.9212	
5	NO3N	8.220	1.147425	2.4887	2.4887	
6	PO4	10.250	2.219833	9.7819	9.7819	
7	SO4	12.153	3.327253	24.9069	24.9069	



ANALYZED BY: _____

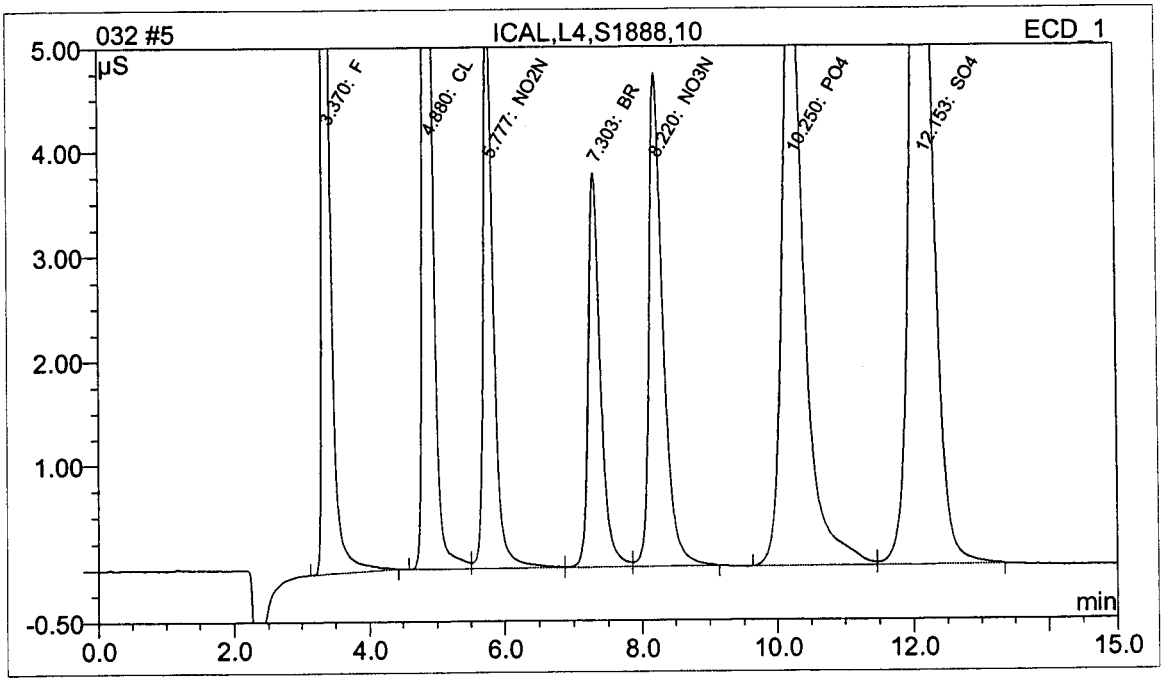
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L4,S1888,10	**Sample No.:**	5
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:21 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	1.463674	4.9860	4.9860	
2	CL	4.880	1.890327	9.9765	9.9765	
3	NO2N	5.777	0.919106	2.4839	2.4839	
4	BR	7.303	0.786634	9.9212	9.9212	
5	NO3N	8.220	1.147425	2.4887	2.4887	
6	PO4	10.250	2.219833	9.7819	9.7819	
7	SO4	12.153	3.327253	24.9069	24.9069	



ANALYZED BY: _____

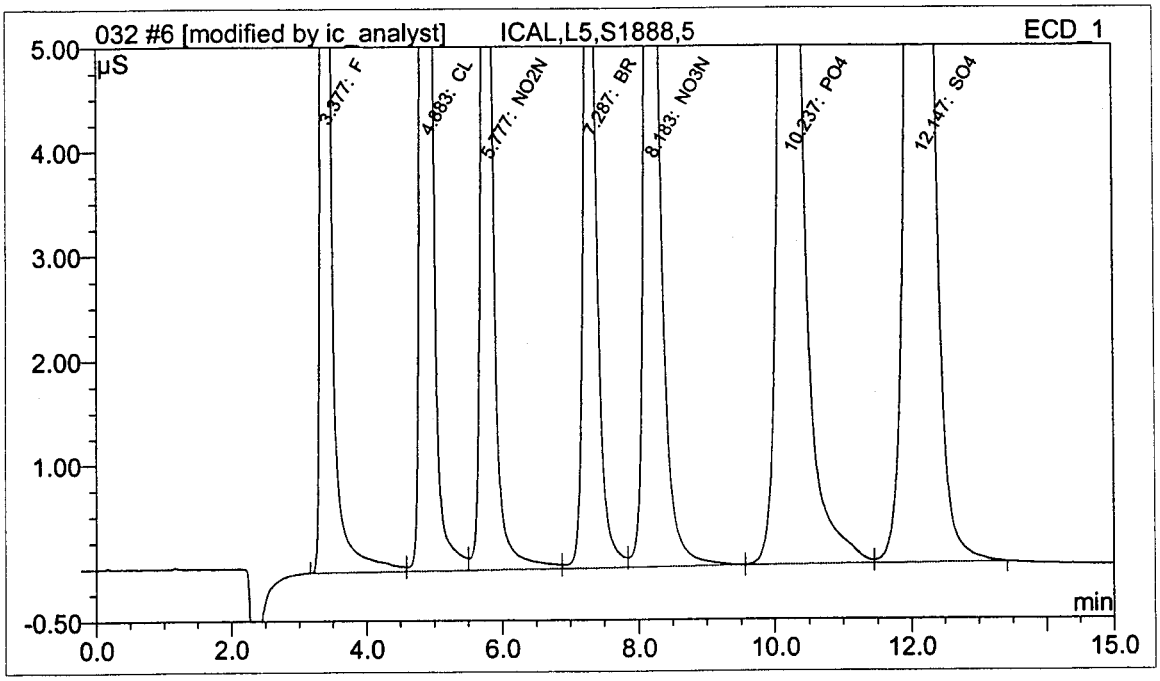
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L5,S1888,5	**Sample No.:**	6
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:38 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.377	3.104502	10.0011	10.0011	
2	CL	4.883	4.110030	20.0036	20.0036	
3	NO2N	5.777	1.915021	5.0028	5.0028	
4	BR	7.287	1.623599	20.0141	20.0141	
5	NO3N	8.183	2.411883	5.0019	5.0019	
6	PO4	10.237	4.224545	20.0468	20.0468	
7	SO4	12.147	7.058845	50.0153	50.0153	



ANALYZED BY: _____

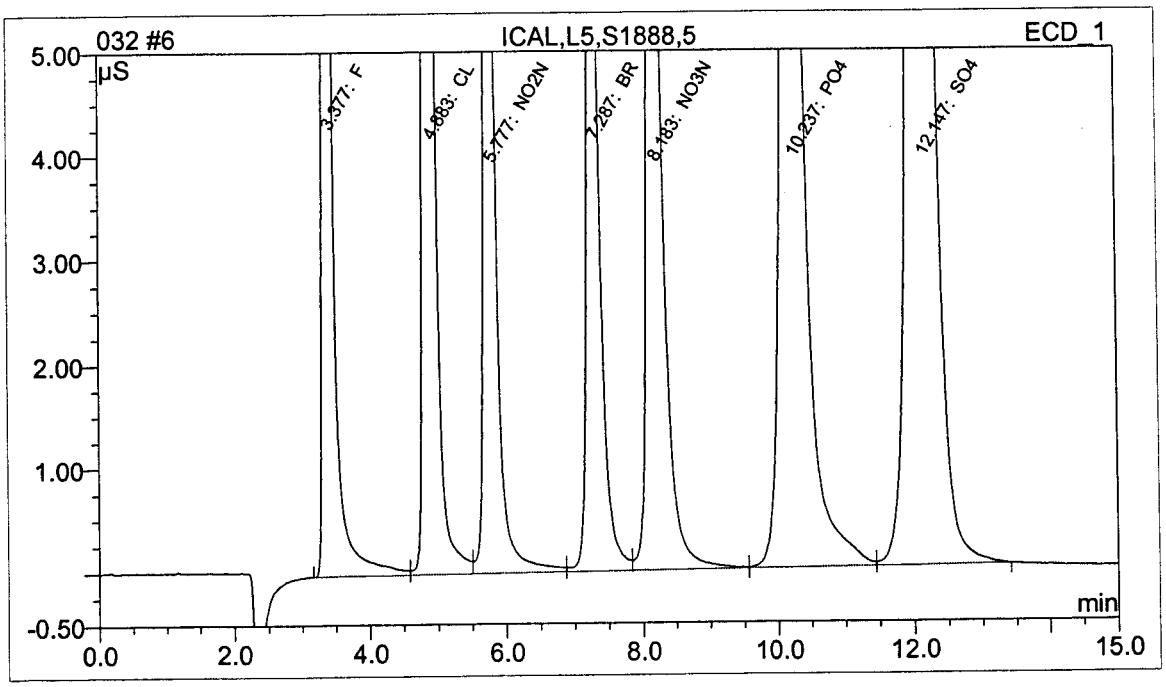
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L5,S1888,5	**Sample No.:**	6
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:38 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.377	3.105467	10.0011	10.0011	
2	CL	4.883	4.111657	20.0037	20.0037	
3	NO2N	5.777	1.918949	5.0029	5.0029	
4	BR	7.287	1.627431	20.0145	20.0145	
5	NO3N	8.183	2.420882	5.0021	5.0021	
6	PO4	10.237	4.233171	20.0470	20.0470	
7	SO4	12.147	7.061876	50.0155	50.0155	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606046871007 File : 032_7.000 Time : 01-FEB-2006 14:56
Cal : 606046871001 Caldate: 01-FEB-2006

Standards: S1085 (5X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Fluoride	0.2814	0.2557	1.000	0.9085	mg/L	-9	10	
Chloride	0.1842	0.1638	2.000	1.856	mg/L	-7	10	
Nitrogen, Nitrite	0.3733	0.3488	0.5000	0.4846	mg/L	-3	10	
Bromide	0.0789	0.0774	2.000	1.990	mg/L	-1	10	
Nitrogen, Nitrate	0.4558	0.4001	0.5000	0.4506	mg/L	-10	10	
Orthophosphate (as P)	0.2156	0.2973	2.000	2.494	mg/L	**25**	10	v+ *** NT
Sulfate	0.1305	0.1253	5.000	4.911	mg/L	-2	10	

MRS 2/1/06

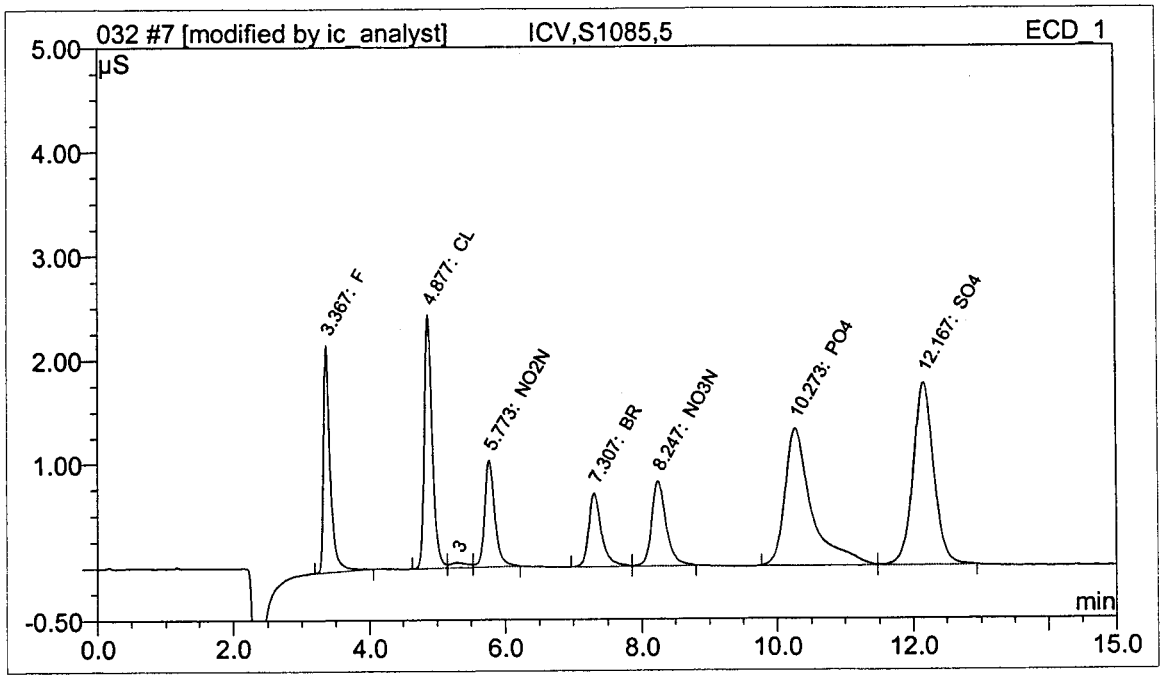
+=high bias v=ICV

606046871007

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:56 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.367	0.255692	0.9085	0.9085	
2	CL	4.877	0.327591	1.8557	1.8557	
4	NO2N	5.773	0.174392	0.4846	0.4846	
5	BR	7.307	0.154881	1.9896	1.9896	
6	NO3N	8.247	0.200041	0.4506	0.4506	
7	PO4	10.273	0.594629	2.4939	2.4939	
8	SO4	12.167	0.626486	4.9106	4.9106	



ANALYZED BY: _____

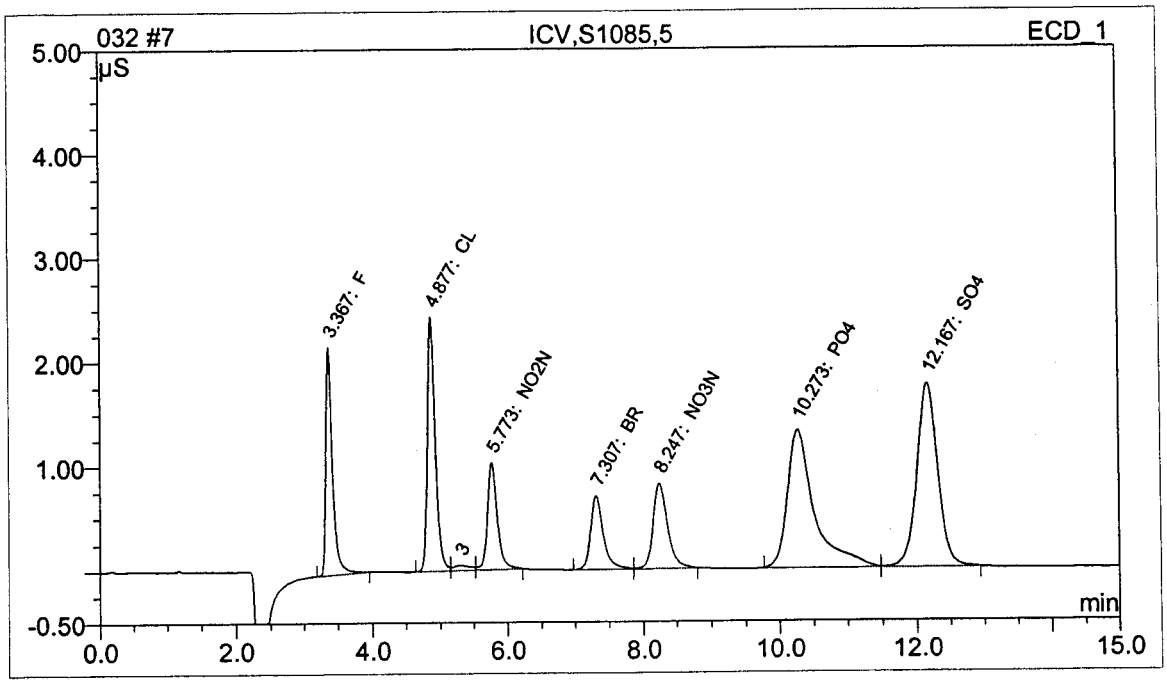
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:56 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.367	0.253367	0.9003	0.9003	
2	CL	4.877	0.327591	1.8557	1.8557	
4	NO2N	5.773	0.174392	0.4846	0.4846	
5	BR	7.307	0.154881	1.9896	1.9896	
6	NO3N	8.247	0.200041	0.4506	0.4506	
7	PO4	10.273	0.594629	2.4939	2.4939	
8	SO4	12.167	0.626486	4.9106	4.9106	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606046871001 File : 032_1.000 Time : 01-FEB-2006 13:11
Cal : 606044228001 Caldate: 30-JAN-2006

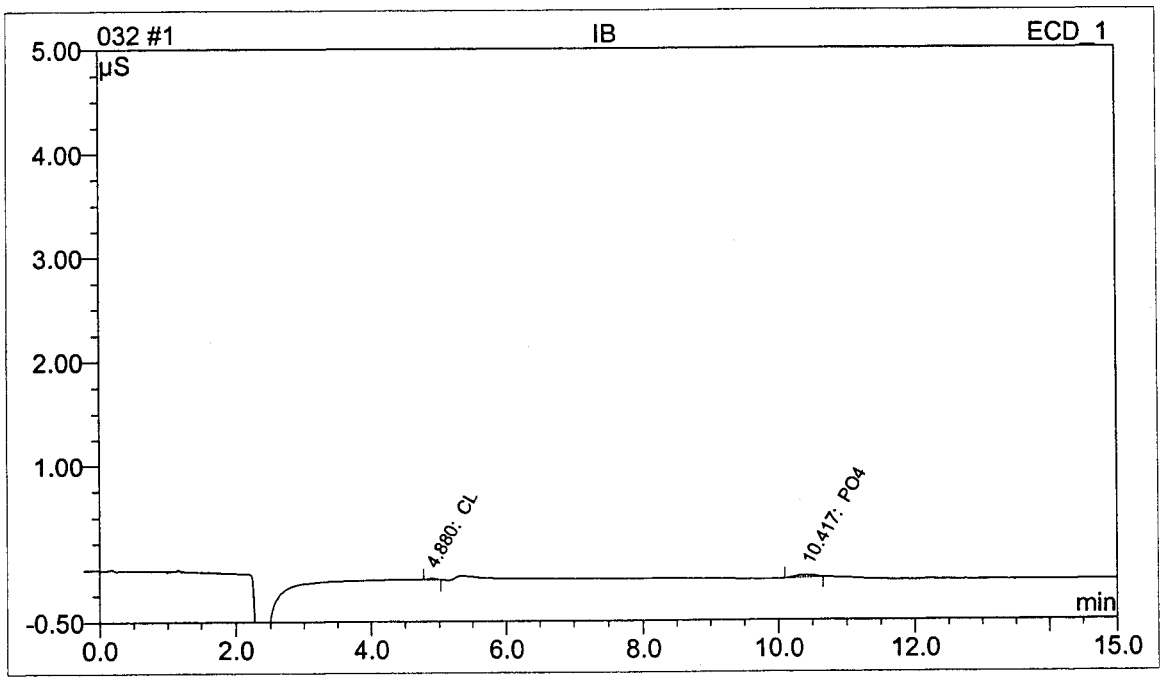
Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.006664	mg/L	
Bromide	ND	0.2000	0.05841	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Orthophosphate (as P)	ND	0.2000	0.04544	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

MRS 2/1/06

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	IB	**Sample No.:**	1
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:11 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
n.a.	F	n.a.	n.a.	n.a.	n.a.	
1	CL	4.880	0.001481	0.0085	0.0085	
n.a.	NO2N	n.a.	n.a.	n.a.	n.a.	
n.a.	BR	n.a.	n.a.	n.a.	n.a.	
n.a.	NO3N	n.a.	n.a.	n.a.	n.a.	
2	PO4	10.417	0.007365	0.0304	0.0304	
n.a.	SO4	n.a.	n.a.	n.a.	n.a.	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS BLANK USER REPORT FOR EPA 300.0

Inst : IC01
Seqnum : 606046871008
File : 032_8.000
IDF : 1.0
Cal : 606046871001

Lab ID : QC326493
Matrix : Water
Batch : 110078
PDF : 1.0
Caldate: 01-FEB-2006

Time : 01-FEB-2006 15:13
Units : mg/L

Analyte	Result	RL	Flags
Fluoride	ND	0.10	
Chloride	ND	0.20	
Nitrogen, Nitrite	ND	0.050	
Bromide	ND	0.20	
Nitrogen, Nitrate	ND	0.050	
Orthophosphate (as P)	0.13 J	0.20	B v+ **b***
Sulfate	ND	0.50	

MCS 2/1/06

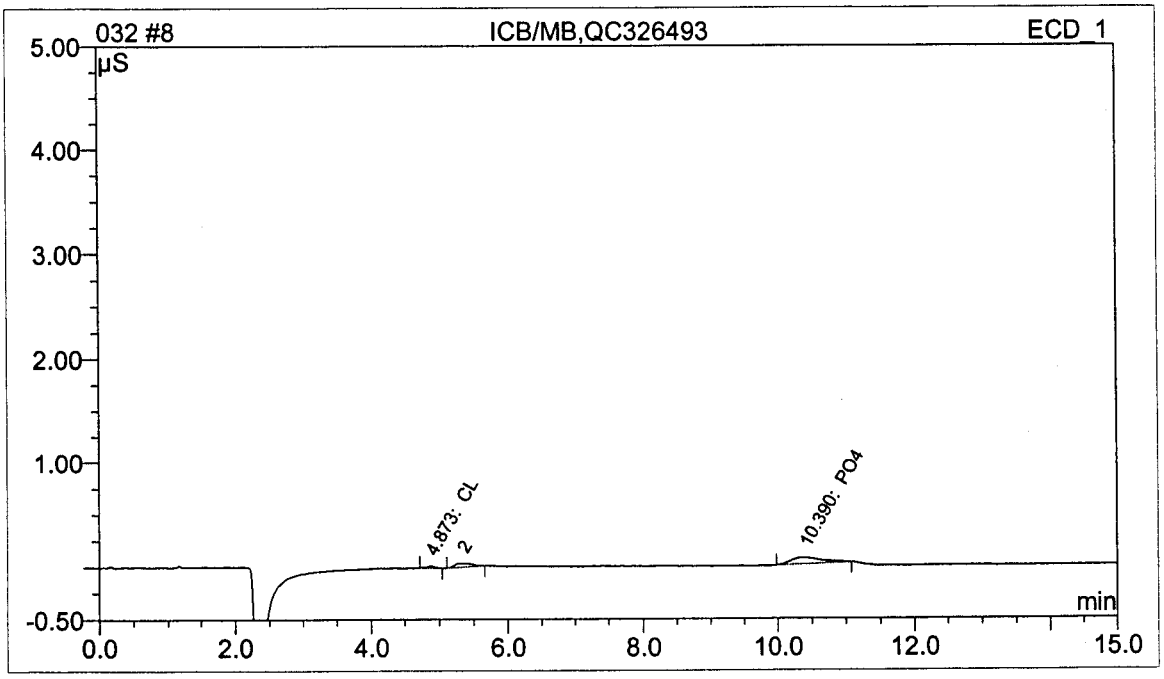
+=high bias B=method blank contamination b=noncompliant v=ICV

606046871008

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICB/MB,QC326493	**Sample No.:**	8
Sequence Name:	032	**Batch #:**	110078
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 3:13 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
n.a.	F	n.a.	n.a.	n.a.	n.a.	
1	CL	4.873	0.002722	0.0157	0.0157	
n.a.	NO2N	n.a.	n.a.	n.a.	n.a.	
n.a.	BR	n.a.	n.a.	n.a.	n.a.	
n.a.	NO3N	n.a.	n.a.	n.a.	n.a.	
3	PO4	10.390	0.031850	0.1315	0.1315	
n.a.	SO4	n.a.	n.a.	n.a.	n.a.	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CONTINUING CALIBRATION SUMMARY FOR 185558 IC Water
Curtis & Tompkins Laboratories

Analyte: Fluoride

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606107609007	15-MAR-2006 16:36	606046871001	01-FEB-2006	0.2814	0.2573	0.5000	0.4594	mg/L	-8	10	
IC01	P	606107609022	15-MAR-2006 20:59	606046871001	01-FEB-2006	0.2814	0.2773	2.0000	1.9476	mg/L	-3	10	
IC01	P	606107609045	16-MAR-2006 03:42	606046871001	01-FEB-2006	0.2814	0.2913	5.0000	4.9489	mg/L	-1	10	

CONTINUING CALIBRATION SUMMARY FOR 185558 IC Water
Curtis & Tompkins Laboratories

Analyte: Chloride

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606107609007	15-MAR-2006 16:36	606046871001	01-FEB-2006	0.1842	0.1674	1.0000	0.9560	mg/L	-4	10	
IC01	P	606107609022	15-MAR-2006 20:59	606046871001	01-FEB-2006	0.1842	0.1800	4.0000	4.0020	mg/L	0	10	
IC01	P	606107609045	16-MAR-2006 03:42	606046871001	01-FEB-2006	0.1842	0.1947	10.000	10.251	mg/L	3	10	
IC01	P	606107609059	16-MAR-2006 07:47	606046871001	01-FEB-2006	0.1842	0.1704	1.0000	0.9731	mg/L	-3	10	
IC01	P	606107609064	16-MAR-2006 09:15	606046871001	01-FEB-2006	0.1842	0.1785	4.0000	3.9696	mg/L	-1	10	

CONTINUING CALIBRATION SUMMARY FOR 185558 IC Water
Curtis & Tompkins Laboratories

Analyte: Nitrogen, Nitrite

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606107609007	15-MAR-2006 16:36	606046871001	01-FEB-2006	0.3733	0.3381	0.2500	0.2357	mg/L	-6	10	
IC01	P	606107609022	15-MAR-2006 20:59	606046871001	01-FEB-2006	0.3733	0.3564	1.0000	0.9834	mg/L	-2	10	
IC01	P	606107609045	16-MAR-2006 03:42	606046871001	01-FEB-2006	0.3733	0.3726	2.5000	2.5166	mg/L	1	10	

CONTINUING CALIBRATION SUMMARY FOR 185558 IC Water
Curtis & Tompkins Laboratories

Analyte: Nitrogen, Nitrate

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606107609007	15-MAR-2006 16:36	606046871001	01-FEB-2006	0.4558	0.4263	0.2500	0.2411	mg/L	-4	10	
IC01	P	606107609022	15-MAR-2006 20:59	606046871001	01-FEB-2006	0.4558	0.4598	1.0000	1.0246	mg/L	2	10	
IC01	P	606107609045	16-MAR-2006 03:42	606046871001	01-FEB-2006	0.4558	0.4815	2.5000	2.6052	mg/L	4	10	
IC01	P	606107609059	16-MAR-2006 07:47	606046871001	01-FEB-2006	0.4558	0.4461	0.2500	0.2522	mg/L	1	10	

CONTINUING CALIBRATION SUMMARY FOR 185558 IC Water
Curtis & Tompkins Laboratories

Analyte: Sulfate

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606107609007	15-MAR-2006 16:36	606046871001	01-FEB-2006	0.1305	0.1204	2.5000	2.3736	mg/L	-5	10	
IC01	P	606107609022	15-MAR-2006 20:59	606046871001	01-FEB-2006	0.1305	0.1303	10.000	10.093	mg/L	1	10	
IC01	P	606107609045	16-MAR-2006 03:42	606046871001	01-FEB-2006	0.1305	0.1380	25.000	25.770	mg/L	3	10	
IC01	P	606107609059	16-MAR-2006 07:47	606046871001	01-FEB-2006	0.1305	0.1226	2.5000	2.4157	mg/L	-3	10	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185558 IC Water
EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606107609023 File : 074_23.000 Time : 15-MAR-2006 21:17
Cal : 606046871001 Caldate: 01-FEB-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.006664	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185558 IC Water
EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606107609046 File : 074_46.000 Time : 16-MAR-2006 03:59
Cal : 606046871001 Caldate: 01-FEB-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.006664	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185558 IC Water
EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606107609060 File : 074_60.000 Time : 16-MAR-2006 08:04
Cal : 606046871001 Caldate: 01-FEB-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.006664	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185558 IC Water
EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606107609065 File : 074_65.000 Time : 16-MAR-2006 09:32
Cal : 606046871001 Caldate: 01-FEB-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	[0.01154]	0.05000	0.006664	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

SEQUENCE SUMMARY FOR 185558 IC Water
Curtis & Tompkins Laboratories

Sequence: 606046871 Instrument: IC01 Ion Chromatograph Begun: 01-FEB-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	032_1.00	IB				01-FEB-2006 13:11	1.0		25				
002	032_2.00	ICAL	L1			01-FEB-2006 13:28	1.0					1	
003	032_3.00	ICAL	L2			01-FEB-2006 13:46	1.0					1	
004	032_4.00	ICAL	L3			01-FEB-2006 14:03	1.0					1	
005	032_5.00	ICAL	L4			01-FEB-2006 14:21	1.0					1	
006	032_6.00	ICAL	L5			01-FEB-2006 14:38	1.0					1	
007	032_7.00	ICV				01-FEB-2006 14:56	1.0	1	25			2	
008	032_8.00	ICB/MB	QC326493	110078	Water	01-FEB-2006 15:13	1.0	1	25				
009	032_9.00	BS	QC326494	110078	Water	01-FEB-2006 15:31	1.0	1	25			1	
010	032_10.0	BSD	QC326495	110078	Water	01-FEB-2006 15:48	1.0	1	25			1	
011	032_11.0	SAMPLE	184665-001	110078	Water	01-FEB-2006 16:19	1.0	1	25				1:CL=32.4397
012	032_12.0	SAMPLE	184665-005	110078	Water	01-FEB-2006 16:37	1.0	1	25				1:CL=32.5432
013	032_13.0	MSS	184665-006	110078	Water	01-FEB-2006 16:54	1.0	2	25				1:CL=34.9403
014	032_14.0	SAMPLE	184665-007	110078	Water	01-FEB-2006 17:12	1.0		25				
015	032_15.0	SAMPLE	184646-001	110078	Water	01-FEB-2006 17:29	100.0		25				
016	032_16.0	SAMPLE	184646-002	110078	Water	01-FEB-2006 17:47	100.0		25				821
017	032_17.0	SAMPLE	184646-003	110078	Water	01-FEB-2006 18:04	100.0		25				
018	032_18.0	CCV	M	110078		01-FEB-2006 18:22	1.0		25			1	
019	032_19.0	CCB		110078		01-FEB-2006 18:39	1.0		25				
020	032_20.0	SAMPLE	184646-004	110078	Water	01-FEB-2006 18:57	100.0		25				
021	032_21.0	SAMPLE	184606-003	110078	Water	01-FEB-2006 19:14	1.0		25				1:CL=67.2883
022	032_22.0	SAMPLE	184606-006	110078	Water	01-FEB-2006 19:32	1.0	1	25				3:SO4=258.533
023	032_23.0	X	BLK	110078		01-FEB-2006 19:49	1.0						
024	032_24.0	SAMPLE	184665-008	110078	Water	01-FEB-2006 20:07	1.0		25				
025	032_25.0	SAMPLE	184665-009	110078	Water	01-FEB-2006 20:24	1.0	1	25				1:CL=23.2597
026	032_26.0	SAMPLE	184665-001	110078	Water	01-FEB-2006 20:42	2.0		25				
027	032_27.0	SAMPLE	184665-005	110078	Water	01-FEB-2006 20:59	2.0		25				
028	032_28.0	MSS	184665-006	110078	Water	01-FEB-2006 21:17	2.0	1	25				
029	032_29.0	MS	QC326496	110078	Water	01-FEB-2006 21:34	5.0	1	25			1	
030	032_30.0	MSD	QC326497	110078	Water	01-FEB-2006 21:52	5.0	1	25			1	
031	032_31.0	CCV	H	110078		01-FEB-2006 22:10	1.0	1	25			1	

Stds used: 1=S1888 2=S1085

SEQUENCE SUMMARY FOR 185558 IC Water
Curtis & Tompkins Laboratories

Sequence: 606046871 Instrument: IC01 Ion Chromatograph Begun: 01-FEB-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
032	032_32.0	CCB		110078		01-FEB-2006 22:27	1.0	1		25				
033	032_33.0	X	CCV	110078		01-FEB-2006 22:45	1.0						1	
034	032_34.0	X	CCB	110078		01-FEB-2006 23:02	1.0							
035	032_35.0	SAMPLE	184665-009	110078	Water	01-FEB-2006 23:20	2.0			25				
036	032_36.0	SAMPLE	184669-006	110078	Water	01-FEB-2006 23:37	100.0			25				
037	032_37.0	SAMPLE	184669-006	110078	Water	01-FEB-2006 23:55	10.0	1		25				1:NO3N=9.88433
038	032_38.0	X	BLK	110078		02-FEB-2006 00:12	1.0							
039	032_39.0	SAMPLE	184606-006	110078	Water	02-FEB-2006 00:30	2.0			25				2:SO4=142.830
040	032_40.0	X	BLK	110078		02-FEB-2006 00:47	1.0							
041	032_41.0	SAMPLE	184646-001	110078	Water	02-FEB-2006 01:05	1.0			25				
042	032_42.0	X	BLK	110078		02-FEB-2006 01:22	1.0							
043	032_43.0	SAMPLE	184646-002	110078	Water	02-FEB-2006 01:40	1.0			25				
044	032_44.0	X	BLK	110078		02-FEB-2006 01:57	1.0							
045	032_45.0	SAMPLE	184646-003	110078	Water	02-FEB-2006 02:15	1.0			25				
046	032_46.0	X	BLK	110078		02-FEB-2006 02:32	1.0							
047	032_47.0	SAMPLE	184646-004	110078	Water	02-FEB-2006 02:50	1.0			25				822
048	032_48.0	X	BLK	110078		02-FEB-2006 03:07	1.0							
049	032_49.0	X	BLK	110078		02-FEB-2006 03:25	1.0							
050	032_50.0	X	CCV	110078		02-FEB-2006 03:42	1.0						1	
051	032_51.0	X	CCB	110078		02-FEB-2006 04:00	1.0							
052	032_52.0	CCV	L	110078		02-FEB-2006 04:17	1.0	2		25			1	
053	032_53.0	CCB		110078		02-FEB-2006 04:35	1.0			25				
054	032_54.0	X	SHUTDOWN	110078		02-FEB-2006 04:52	1.0							

Stds used: 1=S1888 2=S1085

SEQUENCE SUMMARY FOR 185558 IC Water
Curtis & Tompkins Laboratories

Sequence: 606107609 Instrument: IC01 Ion Chromatograph Begun: 15-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
007	074_7.00	CCV	L	111352		15-MAR-2006 16:36	1.0			25			1	
008	074_8.00	CCB/MB	QC331700	111352	Water	15-MAR-2006 16:54	1.0			25				
009	074_9.00	BS	QC331701	111352	Water	15-MAR-2006 17:11	1.0			25			1	
010	074_10.0	BSD	QC331702	111352	Water	15-MAR-2006 17:29	1.0			25			1	
011	074_11.0	MSS	185558-011	111352	Water	15-MAR-2006 17:46	25.0	1		25				
012	074_12.0	MS	QC331703	111352	Water	15-MAR-2006 18:04	25.0			25			1	
013	074_13.0	MSD	QC331704	111352	Water	15-MAR-2006 18:22	25.0			25			1	
014	074_14.0	MSS	185558-011	111352	Water	15-MAR-2006 18:39	1.0	3		25				2:SO4=116.459
015	074_15.0	X	BLK	111352		15-MAR-2006 18:57	1.0							
016	074_16.0	SAMPLE	185558-012	111352	Water	15-MAR-2006 19:14	1.0	2		25				2:CL=104.732
017	074_17.0	X	BLK	111352		15-MAR-2006 19:32	1.0							
018	074_18.0	SAMPLE	185558-013	111352	Water	15-MAR-2006 19:49	1.0	2		25				2:SO4=106.040
019	074_19.0	X	BLK	111352		15-MAR-2006 20:07	1.0							
020	074_20.0	SAMPLE	185558-014	111352	Water	15-MAR-2006 20:24	1.0	2		25				2:SO4=171.734
021	074_21.0	X	BLK	111352		15-MAR-2006 20:42	1.0							
022	074_22.0	CCV	M	111352		15-MAR-2006 20:59	1.0			25			1	
023	074_23.0	CCB		111352		15-MAR-2006 21:17	1.0			25				
024	074_24.0	X	CCV	111352		15-MAR-2006 21:34	1.0						1	
025	074_25.0	X	CCB	111352		15-MAR-2006 21:52	1.0							
026	074_26.0	SAMPLE	185558-015	111352	Water	15-MAR-2006 22:09	1.0	2		25				2:CL=54.0218
027	074_27.0	X	BLK	111352		15-MAR-2006 22:27	1.0							
028	074_28.0	SAMPLE	185558-016	111352	Water	15-MAR-2006 22:44	1.0	1		25				1:CL=41.7190
029	074_29.0	X	BLK	111352		15-MAR-2006 23:02	1.0							
030	074_30.0	SAMPLE	185558-017	111352	Water	15-MAR-2006 23:19	1.0	1		25				1:CL=25.7355
031	074_31.0	X	BLK	111352		15-MAR-2006 23:37	1.0							
032	074_32.0	SAMPLE	185558-018	111352	Water	15-MAR-2006 23:54	1.0	1		25				1:CL=60.9120
033	074_33.0	X	BLK	111352		16-MAR-2006 00:12	1.0							
034	074_34.0	SAMPLE	185558-019	111352	Water	16-MAR-2006 00:29	1.0	1		25				1:CL=30.7122
035	074_35.0	X	BLK	111352		16-MAR-2006 00:47	1.0							
036	074_36.0	SAMPLE	185558-020	111352	Water	16-MAR-2006 01:04	1.0	1		25				1:CL=33.3453
037	074_37.0	X	BLK	111352		16-MAR-2006 01:22	1.0							

Stds used: 1=S1888

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SEQUENCE SUMMARY FOR 185558 IC Water
Curtis & Tompkins Laboratories

Sequence: 606107609 Instrument: IC01 Ion Chromatograph Begun: 15-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
038	074_38.0	SAMPLE	185558-022	111352	Water	16-MAR-2006 01:39	1.0			25				
039	074_39.0	X	BLK	111352		16-MAR-2006 01:57	1.0							
040	074_40.0	SAMPLE	185558-026	111352	Water	16-MAR-2006 02:14	1.0	1		25			1:CL=52.2765	
041	074_41.0	X	BLK	111352		16-MAR-2006 02:32	1.0							
042	074_42.0	SAMPLE	185558-027	111352	Water	16-MAR-2006 02:49	1.0			25				
043	074_43.0	X	BLK	111352		16-MAR-2006 03:07	1.0							
044	074_44.0	SAMPLE	185558-012	111352	Water	16-MAR-2006 03:24	25.0			25				
045	074_45.0	CCV	H	111352		16-MAR-2006 03:42	1.0	1		25			1	
046	074_46.0	CCB		111352		16-MAR-2006 03:59	1.0	1		25				
047	074_47.0	X	CCV	111352		16-MAR-2006 04:17	1.0						1	
048	074_48.0	X	CCB	111352		16-MAR-2006 04:34	1.0							
049	074_49.0	SAMPLE	185558-013	111352	Water	16-MAR-2006 04:52	25.0			25				
050	074_50.0	SAMPLE	185558-014	111352	Water	16-MAR-2006 05:09	25.0			25				
051	074_51.0	SAMPLE	185558-015	111352	Water	16-MAR-2006 05:27	10.0			25				
052	074_52.0	SAMPLE	185558-016	111352	Water	16-MAR-2006 05:44	10.0			25				
053	074_53.0	SAMPLE	185558-017	111352	Water	16-MAR-2006 06:02	5.0			25				824
054	074_54.0	SAMPLE	185558-018	111352	Water	16-MAR-2006 06:19	25.0			25				
055	074_55.0	SAMPLE	185558-019	111352	Water	16-MAR-2006 06:37	25.0			25				
056	074_56.0	SAMPLE	185558-020	111352	Water	16-MAR-2006 06:54	25.0			25				
057	074_57.0	SAMPLE	185558-022	111352	Water	16-MAR-2006 07:12	25.0			25				
058	074_58.0	SAMPLE	185558-026	111352	Water	16-MAR-2006 07:29	10.0			25				
059	074_59.0	CCV	L	111352		16-MAR-2006 07:47	1.0	2		25			1	
060	074_60.0	CCB		111352		16-MAR-2006 08:04	1.0			25				
061	074_61.0	X	CCV	111352		16-MAR-2006 08:22	1.0						1	
062	074_62.0	X	CCB	111352		16-MAR-2006 08:39	1.0							
063	074_63.0	SAMPLE	185558-027	111352	Water	16-MAR-2006 08:57	25.0			25				
064	074_64.0	CCV	M	111352		16-MAR-2006 09:15	1.0	1		25			1	
065	074_65.0	CCB		111352		16-MAR-2006 09:32	1.0			25				
066	074_66.0	X	CCV	111352		16-MAR-2006 09:50	1.0						1	
067	074_67.0	X	CCB	111352		16-MAR-2006 10:07	1.0							
068	074_68.0	X	SHUTDOWN	111352		16-MAR-2006 10:25	1.0							

Stds used: 1=S1888

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185558 IC Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	CL	NO2N	NO3N	SO4	
185558-011	IC01	03/15/06 17:46	25.0		+			+	
185558-011	IC01	03/15/06 18:39	1.0	+		+	+		
185558-012	IC01	03/15/06 19:14	1.0	+		+	+		
185558-012	IC01	03/16/06 03:24	25.0		+			+	
185558-013	IC01	03/15/06 19:49	1.0	+		+	+		
185558-013	IC01	03/16/06 04:52	25.0		+			+	
185558-014	IC01	03/15/06 20:24	1.0	+		+	+		
185558-014	IC01	03/16/06 05:09	25.0		+			+	
185558-015	IC01	03/15/06 22:09	1.0	+		+		+	
185558-015	IC01	03/16/06 05:27	10.0		+		+		
185558-016	IC01	03/15/06 22:44	1.0	+		+	+	+	
185558-016	IC01	03/16/06 05:44	10.0		+				
185558-017	IC01	03/15/06 23:19	1.0	+		+	+	+	
185558-017	IC01	03/16/06 06:02	5.0		+				
185558-018	IC01	03/15/06 23:54	1.0	+		+	+	+	
185558-018	IC01	03/16/06 06:19	25.0		+				
185558-019	IC01	03/16/06 00:29	1.0	+		+	+	+	
185558-019	IC01	03/16/06 06:37	25.0		+				
185558-020	IC01	03/16/06 01:04	1.0	+		+	+	+	
185558-020	IC01	03/16/06 06:54	25.0		+				
185558-022	IC01	03/16/06 01:39	1.0	+		+	+	+	
185558-022	IC01	03/16/06 07:12	25.0		+				
185558-026	IC01	03/16/06 02:14	1.0	+		+	+	+	
185558-026	IC01	03/16/06 07:29	10.0		+				
185558-027	IC01	03/16/06 02:49	1.0	+		+	+	+	
185558-027	IC01	03/16/06 08:57	25.0		+				
QC331700	IC01	03/15/06 16:54	1.0	+	+	+	+	+	
QC331701	IC01	03/15/06 17:11	1.0	+	+	+	+	+	
QC331702	IC01	03/15/06 17:29	1.0	+	+	+	+	+	
QC331703	IC01	03/15/06 18:04	25.0	+	+	+	+	+	

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185558 IC Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	CL	NO2N	NO3N	SO4	
QC331704	IC01	03/15/06 18:22	25.0	+	+	+	+	+	

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111352
Date Started: 15-MAR-2006
Batched by : Micah Smith

Analysis : N/A
Bgroup : IC
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185558-011			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	27-MAR-2006
185558-012			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	27-MAR-2006
185558-013			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	27-MAR-2006
185558-014			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	27-MAR-2006
185558-015			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	27-MAR-2006
185558-016			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	27-MAR-2006
185558-017			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	27-MAR-2006
185558-018			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	27-MAR-2006
185558-019			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	27-MAR-2006
185558-020			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	27-MAR-2006
185558-022			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	27-MAR-2006
185558-026			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	27-MAR-2006
185558-027			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	27-MAR-2006
QC331700	BLANK			Water		
QC331701	BS			Water		
QC331702	BSD			Water		
QC331703	MS	of 185558-011		Water		
QC331704	MSD	of 185558-011		Water		

Curtis & Tompkins, Ltd.

Water Prep Log

Ion Chromatography

Analysis: ☑ Anions EPA 300 / EPA 9056
☐ Perchlorate (ClO_4) EPA 314
☐ Cr6+ EPA 7199

Batch#: 111352
Date Started: 3/15/06
Prep Chemist: MRS

BK 2267
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	Sample #	Conductivity	Estimated Dilution Factor	Filters Used	Comments
1	185558-011 H	1.70	1x / 25x	S	MSS
2	-012 E	1.18	/ 25x		
3	-013 H	1.37	/ 25x		
4	-014 H	1.78	/ 25x		
5	-015 H	0.58	/ 10x		
6	-016 K	0.82	/ 10x		
7	-017	0.41	/ 5x		
8	-018	1.08	/ 25x		
9	-019	1.04	/ 25x		
10	-020	1.03	/ 25x		
11	-022	1.43	/ 25x		
12	-026	0.80	/ 10x		
13	-027	1.29	/ 25x		
14	Blank QC331700	N/A	1x	N/A	
15	BS QC331701				
16	BSD QC331702				
17	MS QC331703 H		25x	S	
18	MSD QC331704 H		25x	S	
19					
20					

	Mfg & Lot # / Time / Program	Initials / Date
Eluent Reagent ID	100x CP 12/6/05	MRS 3/15/06
BS/BSD Spiked with 0.2 mL of :	S1888	
MS/MSD Spiked with 0.1 mL of :	S1888	
Filters Used: Ag: OnGuard II Ag	N/A	
Na: OnGuard II Na		
P: OnGuard II P		
RP: OnGuard II RP		
S: 0.20um/0.45um	Acrodisc lot #A10539346	

MRS 3/15/06
Extraction Chemist / Date

Continued from page ___
Continued on page ___

CP 3/16/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 300.0 Water
As of 04/08/06

Analyte	Units	IC03	IC01
Fluoride	mg/L	0.023	0.018
Chloride	mg/L	0.032	0.026
Nitrogen, Nitrite	mg/L	0.012	0.0067
Bromide	mg/L	0.028	0.058
Nitrogen, Nitrate	mg/L	0.0088	0.018
Orthophosphate (as P)	mg/L	0.037	0.045
Sulfate	mg/L	0.079	0.046

Curtis & Tompkins, Ltd.

Surfactants (MBAS)

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Analysis:	EPA 425.1
Project#:	2893.04.51		
Analyte:	Surfactants (MBAS)	Batch#:	111376
Field ID:	DAEGW103	Sampled:	03/14/06 13:50
Matrix:	Water	Received:	03/15/06
Units:	mg/L	Analyzed:	03/16/06 11:00
Diln Fac:	1.000		

Type	Lab ID	Result	RL
SAMPLE	185558-015	ND	0.10
BLANK	QC331781	ND	0.10

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Surfactants (MBAS)

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Analysis:	EPA 425.1
Project#:	2893.04.51		
Analyte:	Surfactants (MBAS)	Diln Fac:	1.000
Field ID:	DAEGW103	Batch#:	111376
MSS Lab ID:	185558-015	Sampled:	03/14/06 13:50
Matrix:	Water	Received:	03/15/06
Units:	mg/L	Analyzed:	03/16/06 11:00

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC331782	<0.1000	0.5000	0.3451	69	56-120		
MSD	QC331783		0.5000	0.2951	59	56-120	16	30
LCS	QC331784		0.5000	0.5306	106	80-120		

RPD= Relative Percent Difference

Analysis:	**Surfactants (MBAS)**	Batch#:	**111376**	Analyst:	DMc
Method:	**EPA 425.1** / SMWW 5540c	Analysis Date:	**3/16/2006**	**Reviewed by/ Date:**	3-27-6
Matrix:	Water	Instrument:	**Perkin-Elmer Spec**		
SOP#:	MBAS_rv4.doc				

Initial Calibration Data Calibrated: 2/09/06

ug/100mL	ABS	RF
0	0.0006	
9.6	0.0278	0.00290
28.8	0.0627	0.00218
48.0	0.1038	0.00216
67.2	0.1331	0.00198
105.6	0.2309	0.00219

Correlation Coefficient =	0.9962
Avg Response Factor =	0.00228
%RSD =	17.7

Note: Average response used to calculate sample results

Calibration Verification Data

	vol (mL)	IDF	ABS	Conc.(mg/L)	TV (mg/L)	Recovery	Limits
ICV	100	1	0.1210	0.5306	0.5	106.1%	90-110%
ICB	100	1	0.0002	ND			
CCV	100	1	0.1207	0.5293	0.5	105.9%	90-110%
CCB	100	1	-0.0020	ND			

832

Analysis: **Surfactants (MBAS)**
Method: **EPA 425.1** / SMWW 5540c

Batch#: 111376
Analysis Date: 3/16/2006

Sample & Batch QC Data

C&T ID	vol (mL)	IDF	ABS	**Report** (mg/L)	RL (mg/L)	Spike Added (mL)	Spike Std Conc. (mg/L)	QC TV (mg/L)	**% Recovery**	**%RPD**
MB	100	1	0.0068	**ND**	0.1					
LCS	100	1	0.1210	**0.5306**	0.1	5	10	0.5	**106**	
185558-15	100	1	0.0224	**ND**	0.1					
ms	100	1	0.0787	**0.3451**	0.1	5	10	0.5	**69**	
msd	100	1	0.0673	**0.2951**	0.1	5	10	0.5	**59**	**16**

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	80 - 120
MS/ MSD	30	56 - 120

833

Date : 3/16/2006 Time : 11:09:09

Concentration Results

Date: 3/16/2006 Time: 11:01:06 AM
Instrument: PerkinElmer Lambda 25 Serial No: 101N5091105
Method: MBAS1205
Ordinate mode: Single wavelength
Slit: UV/VIS: 1.00 nm
Baseline: No correction (0.00 0.00)
Result Filename: 185558.RCO
Autozero performed: 3/16/2006 11:00:57 AM
Analyst: 0.00 [analyst]

Wavelength(s)		Sample ID	Ordinate	Factor	Concentration		Sample Info
652.0	0.0	icb	0.0002	1.0000	0.1076	ug/100ml	
652.0	0.0	icvlcs	0.1210	1.0000	56.593	ug/100ml	
652.0	0.0	185558	0.0224	1.0000	10.497	ug/100ml	185558-15
652.0	0.0	185558	0.0787	1.0000	36.815	ug/100ml	185558-15ms
652.0	0.0	185558	0.0617	1.0000	28.876	ug/100ml	185558-15msd — NOT USED
652.0	0.0	185558	0.0673	1.0000	31.473	ug/100ml	185558-15msd
652.0	0.0	mb	0.0068	1.0000	3.1716	ug/100ml	
652.0	0.0	ccv	0.1207	1.0000	56.453	ug/100ml	
652.0	0.0	ccb	-0.002	1.0000	-0.991*	ug/100ml	

CALIBRATION

Date: 3/16/2006 Time: 11:00:58 AM
Instrument: PerkinElmer Lambda 25 Serial No: 101N5091105
Method: MBAS1205
Ordinate mode: Single wavelength
Baseline: No correction (0.00 0.00)
Analyst:

Wavelength(s)		Sample ID	Concentration		Ord. value	Comment
652.0	0.0	applic44.A01	0.0000	ug/100ml	0.0006	
652.0	0.0	applic44.A02	9.6000	ug/100ml	0.0278	
652.0	0.0	applic44.A03	28.800	ug/100ml	0.0627	
652.0	0.0	applic44.A04	48.000	ug/100ml	0.1038	
652.0	0.0	applic44.A05	67.200	ug/100ml	0.1331	
652.0	0.0	applic44.A06	105.60	ug/100ml	0.2309	

Equation. y = 2.137693e-03 * x

Residual error: 0.006236
Correlation coefficient: 0.997175

PROJECT TREADWELL 185558

Continued From Page

MBAS EPA 425.1 B 111376

Sample	Vol (ml)	Final Vol (ml)	ABS
185558-15J	100	100	.0224
-15MS	+5ml (10ug/ml S2805) same as MS		~~.3451~~ 3-16-06 .0787
-15MSD			.0673
LCS=MS	same as MS		.1210
MB=~~.0~~ 3-16-06			~~.0105~~ 3-27-6 ~~.0068~~ 3-27-6 0.0068

Continued on Page

Read and Understood By

3-27-06 units up
3-16-06 - Analysis

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111376
Date Started: 16-MAR-2006
Batched by : Dennis McCanna

Analysis : MBAS
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185558-015			Treadwell & Rollo	Water	MBAS	27-MAR-2006
QC331781	BLANK			Water	MBAS	
QC331782	MS	of 185558-015		Water	MBAS	
QC331783	MSD	of 185558-015		Water	MBAS	
QC331784	LCS			Water	MBAS	

Analysis:	MBAS	Analysis Date:	3/11/2005
Method:	EPA 425.1	Analyst:	SY
Instrument:	HP UV/Vis		
Wavelength:	652		

Instrument Calibrated to report sample results in concentration: mg/L

Concentration:	0.3
Units:	mg/L
1	0.273
2	0.291
3	0.325
4	0.339
5	0.323
6	0.296
7	0.298
Average:	0.307 mg/L
Std Deviation:	0.0231004
Student T:	3.143

(Student-T value for 7 replicates = 3.143, for 8 replicates = 2.998)

MDL = Student T * StdDev:	**0.0726** mg/L
Reporting Limit:	0.1 mg/L
Status:	PASS

Curtis & Tompkins, Ltd.

Sulfide

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 376.2
Analyte:	Sulfide	Batch#:	111505
Matrix:	Water	Sampled:	03/14/06
Units:	mg/L	Received:	03/15/06
Diln Fac:	1.000	Analyzed:	03/21/06

Field ID	Type	Lab ID	Result	RL
600GW109	SAMPLE	185558-016	ND	0.04
1065MW102	SAMPLE	185558-017	0.04	0.04
1065PZ1A	SAMPLE	185558-018	ND	0.04
231PZ04	SAMPLE	185558-019	ND	0.04
231PZ03	SAMPLE	185558-020	ND	0.04
231PZ01	SAMPLE	185558-022	ND	0.04
231GW15	SAMPLE	185558-026	ND	0.04
231GW13	SAMPLE	185558-027	ND	0.04
	BLANK	QC332338	ND	0.04

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Sulfide

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 376.2
Analyte:	Sulfide	Diln Fac:	1.000
Field ID:	231GW13	Batch#:	111505
MSS Lab ID:	185558-027	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	mg/L	Analyzed:	03/21/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC332339	<0.04000	0.2620	0.2035	78	75-125		
MSD	QC332340		0.2620	0.2191	84	75-125	7	20
LCS	QC332341		0.3930	0.3672	93	75-125		

RPD= Relative Percent Difference

Analysis:	**SULFIDE**	Matrix:	Water
Method:	**EPA 376.2**	Batch:	**111505**
Instrument:	HP UV-VIS Spectrometer	Prep Date:	**3/21/2006**
Wavelength:	626 nm	Analysis Date:	**3/21/2006**
SOP#:	sulfide_376_rv 4.doc	Analyst:	DM

INITIAL CALIBRATION DATA

Calibration Date: 11/15/05

Conc (mg/L)	Absorb	RF
0.0000	0.0001	
0.0233	0.0090	0.3863
0.0466	0.0156	0.3348
0.1862	0.0555	0.2981
0.3725	0.1650	0.4430
0.7450	0.3293	0.4420
1.3040	0.5687	0.4361
1.6760	0.7467	0.4455

Correlation Coefficient (r):	0.9994
Avg Rf:	0.3980
%RSD:	15.1

Note: Average Rf used to calculate sample results.

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CONTINUING CALIBRATION DATA

	Absorb	Conc (mg/L)	True (mg/L)	Recovery	CV Limits
ICV	0.1461	0.3671	0.3930	93%	90 - 110%
ICB	-0.0002	-0.0005	0.0000		
CCV	0.1475	0.3706	0.3930	94%	90 - 110%
CCB	0.0005	0.0013	0.0000		
CCV	0.1436	0.3608	0.3930	92%	90 - 110%
CCB	0.0009	0.0023	0.0000		

Analysis: **SULFIDE**
Method: **EPA 376.2**
Instrument: HP UV-VIS Spectrometer
Wavelength: 626 nm
Matrix: Water

Batch: **111505**
Prep Date: **3/21/2006**
Analysis Date: **3/21/2006**
Analyst: DM

SAMPLE & BATCH QC DATA

Sample ID	Sample Vol (mL)	D.F.	Sample Absorb	Color Blk Absorb	**Report mg/L**	Reporting Limit (mg/L)	Vol Spike Added (mL)	Std Conc. (mg/L)	Spiked @ (mg/L)	**% Rec**	**% RPD**
MB	7.5000	1.0000	-0.0002		**ND**	0.040					
LCS	7.5000	1.0000	0.1461		**0.36715**	0.040	1.0000	39.3024	0.3930	**93**	
185558-27	7.5000	1.0000	0.0043		**ND**	0.040					
ms	7.5000	1.0000	0.0810		**0.20354**	0.040	0.0500	39.3024	0.2620	**78**	
msd	7.5000	1.0000	0.0872		**0.21912**	0.040	0.0500	39.3024	0.2620	**84**	**7**
185541-1	7.5000	1.0000	0.0154		**ND**	0.040					
185541-2	7.5000	1.0000	0.0848	0.0853	**ND**	0.040					
185541-3	7.5000	1.0000	0.0136		**ND**	0.040					
185541-4	7.5000	1.0000	0.0249		**0.06257**	0.040					
185558-16	7.5000	1.0000	0.0123		**ND**	0.040					
185558-17	7.5000	1.0000	0.0161		**0.04046**	0.040					
185558-18	7.5000	1.0000	0.0051		**ND**	0.040					
185558-19	7.5000	1.0000	-0.0025		**ND**	0.040					
185558-20	7.5000	1.0000	0.0132		**ND**	0.040					
185558-22	7.5000	1.0000	0.0115		**ND**	0.040					
185558-26	7.5000	1.0000	0.0129		**ND**	0.040					

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	20	42 - 121

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Reviewed by/ Date: 3-27-06

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---> Quantitation Results Report <---

Date : 03-~~16~~ 21-2006 3-21-06
Time : 11:48:51
Operator : Not Entered
DM

ame : Data not stored yet

Name : sulfide
t Name : CAL11-15-05
nits : mg/L
actor : 1.00

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

#	Sample Name	Wavelength	Func. Res.	Concentration
	icb/mb	Analytical	-0.0002	0.00000
	icv/lcs	Analytical	+0.1461	0.33103
	185541-1	Analytical	+0.0154	0.03481
	185541-2	Analytical	+0.0848	0.19212
	185541-2cb	Analytical	+0.0853	0.19319
	185541-3	Analytical	+0.0136	0.03077
	185541-4	Analytical	+0.0249	0.05642
	185558-16	Analytical	+0.0123	0.02780
	185558-17	Analytical	+0.0161	0.03644
	185558-18	Analytical	+0.0051	0.01155
	ccv	Analytical	+0.1475	0.33421
	ccb	Analytical	+0.0005	0.00104
	185558-19	Analytical	-0.0025	0.00000
	185558-20	Analytical	+0.0132	0.03001
	185558-21	Analytical	+0.0115	0.02614
	185558-22	Analytical	+0.0129	0.02925
	185558-26	Analytical	+0.0034	0.00764
	185558-27	Analytical	+0.0043	0.00975
	185558-27ms	Analytical	+0.0810	0.18355

ccv	Analytical	+0.1436	0.32543
ccb	Analytical	+0.0009	0.00194

---) **Standard Calibration Report** (---

Date : 03-~~15~~ 21-2006 3/21/06
Time : 11:49:12
Operator : Not Entered
DM

me : C:\UV\DATA\ss1105.STD

Name : sulfide
Name : CAL11-15-05
its : mg/L

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

cal Function Concentration = +2.266E+00 * Absorbance

STD #	Concentration	Absorbance	% Error
1	0.00000	0.0001	*****
2	0.37250	0.1650	-0.366 %
3	0.74500	0.3293	-0.135 %
4	1.30400	0.5687	+1.198 %
5	1.67600	0.7467	-0.933 %
6	0.02330	0.0090	+14.422 %
7	0.04660	0.0156	+31.758 %
8	0.18620	0.0555	+48.042 %

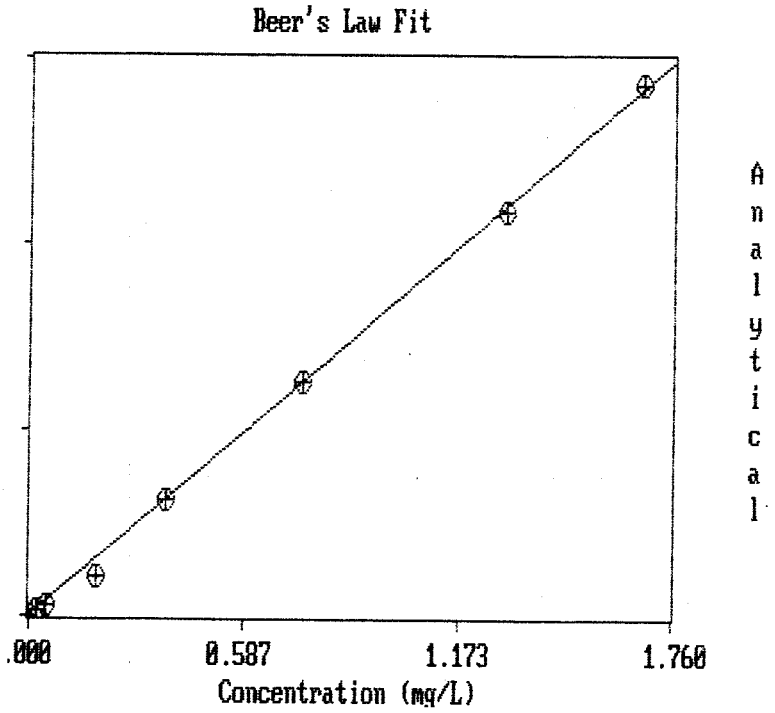
---> Standard Calibration Report <---

Date : 03-~~15~~ 21-2006
Time : 11:49:13 3-21-06
Operator : Not Entered
DM

: C:\UV\DATA\ss1105.STD

me : sulfide
lame : CAL11-15-05
s : mg/L

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds



Sulfide EPA 376.2 B111565

	Sample Vol (ml)	Final Vol (ml)	A35 / CB
185541-1K	7.5	7.5	.0154
-2K			.0845 / .0853
-3K			.0136
-4K			.0249
185558-16			.0123
-17			.0161
-18			.0051
-19			-.0025
-20			.0132
-22			.0115
-26			.0129
-27			.0043
-27 MS	4.05 ml (39.3024 mg/L std from 0455292)		.0810
-27 MSD	same as MS		.0872
~~LCS~~ 3-21-06			
~~MB~~ 3-21-06			
ICB/MB			-.0002
ICV/LCS	1 ml 39.3024 mg/L → 100 ml, use 7.5 ml		.1461
CCV			.1475
CCB			.0005
CCV			.1436
CCB			.0009

TV = .3930 mg/L

Continued on Page

Read and Understood By

Signed: [illegible] Date: 3-21-06 Signed: [illegible] Date: 3-27-06

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111505
Date Started: 21-MAR-2006
Batched by : Dennis McCanna

Analysis : SULFIDE
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185541-001			Arcadis G&M	Water	SULFIDE	27-MAR-2006
185541-002			Arcadis G&M	Water	SULFIDE	27-MAR-2006
185541-003			Arcadis G&M	Water	SULFIDE	27-MAR-2006
185541-004			Arcadis G&M	Water	SULFIDE	27-MAR-2006
185558-016			Treadwell & Rollo	Water	SULFIDE	27-MAR-2006
185558-017			Treadwell & Rollo	Water	SULFIDE	27-MAR-2006
185558-018			Treadwell & Rollo	Water	SULFIDE	27-MAR-2006
185558-019			Treadwell & Rollo	Water	SULFIDE	27-MAR-2006
185558-020			Treadwell & Rollo	Water	SULFIDE	27-MAR-2006
185558-022			Treadwell & Rollo	Water	SULFIDE	27-MAR-2006
185558-026			Treadwell & Rollo	Water	SULFIDE	27-MAR-2006
185558-027			Treadwell & Rollo	Water	SULFIDE	27-MAR-2006
QC332338	BLANK			Water	SULFIDE	
QC332339	MS	of 185558-027		Water	SULFIDE	
QC332340	MSD	of 185558-027		Water	SULFIDE	
QC332341	LCS			Water	SULFIDE	

Analysis:	Sulfide	Analysis Date:	4/14/2005
Method:	EPA 376.2	Analyst:	DM
Instrument:	HP UV/Vis		
Wavelength:	626 nm		

Instrument Calibrated to report sample results in concentration: mg/L

Concentration:	0.1098
Units:	mg/L
1	0.100
2	0.104
3	0.105
4	0.096
5	0.096
6	0.095
7	0.092
Average:	0.098 ug/L
Std Deviation:	0.004691
Student T:	3.143

(Student-T value for 7 replicates = 3.143, for 8 replicates = 2.998)

MDL = Student T * StdDev:	**0.0147** mg/L
Reporting Limit:	0.04 mg/L
Status:	PASS >1/3 RL

Curtis & Tompkins, Ltd.

Total Dissolved Solids (TDS)

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	mg/L	Analyzed:	03/21/06
Batch#:	111524		

Field ID	Type	Lab ID	Result	RL	Diln Fac
DAEGW03	SAMPLE	185558-011	1,090	50	5.000
DAEGW04	SAMPLE	185558-012	810	50	5.000
DAEGW05	SAMPLE	185558-013	210	50	5.000
DAEGW08	SAMPLE	185558-014	1,280	50	5.000
DAEGW103	SAMPLE	185558-015	610	50	5.000
600GW109	SAMPLE	185558-016	620	50	5.000
1065MW102	SAMPLE	185558-017	450	50	5.000
1065PZ1A	SAMPLE	185558-018	750	50	5.000
231PZ04	SAMPLE	185558-019	710	50	5.000
231PZ03	SAMPLE	185558-020	790	50	5.000
231PZ01	SAMPLE	185558-022	1,120	50	5.000
231GW15	SAMPLE	185558-026	510	50	5.000
231GW13	SAMPLE	185558-027	640	50	5.000
	BLANK	QC332412	ND	10	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Dissolved Solids (TDS)

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Batch#:	111524
Field ID:	ZZZZZZZZZZ	Sampled:	03/15/06
MSS Lab ID:	185552-001	Received:	03/15/06
Matrix:	Water	Analyzed:	03/21/06
Units:	mg/L		

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim	Dil'n Fac
BS	QC332413		100.0	106.0		106	79-121			1.000
BSD	QC332414		100.0	98.00		98	79-121	8	20	1.000
SDUP	QC332415	6,360		7,080	100.0			11	20	10.00

RL= Reporting Limit
RPD= Relative Percent Difference

Analysis:	**Total Dissolved Solids**	Analysis Date:	**21-Mar-06**
Method:	**EPA160.1** / SMWW 2540c	Batch #:	**111524**
Matrix:	Water	Analyst:	RS
SOP#:	tds_rv 9.doc		

BATCH QC DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)	Spike Std Conc (mg/L)	Spike Vol.Used (mL)	Spiking Level (mg/L)	**Recovery,%**	**RPD,%**
MB	50	1	49.1742	49.1739	-0.0003	ND	10					
BS	50	1	42.8839	42.8892	0.0053	106.0	10	1,000	5	100	**106**	
BSD	50	1	47.2901	47.2950	0.0049	98.0	10	1,000	5	100	**98**	**7.84**
185552-001	5	10	24.7218	24.7536	0.0318	6,360.0	100					
SDUP	5	10	25.7144	25.7498	0.0354	7,080.0	100					**10.71**

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	79 - 121
MS/ MSD	20	69 - 131

SAMPLE DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)
185514-001	1	50	28.3018	28.3152	0.0134	13,400.0	500
185514-002	1	50	25.0584	25.0706	0.0122	12,200.0	500
185514-004	10	5	27.4169	27.4187	0.0018	180.0	50
185514-005	1	50	25.4797	25.4893	0.0096	9,600.0	500
185558-011	10	5	25.4367	25.4476	0.0109	1,090.0	50
185558-012	10	5	27.1654	27.1735	0.0081	810.0	50
185558-013	10	5	25.0311	25.0332	0.0021	210.0	50
185558-014	10	5	25.3601	25.3729	0.0128	1,280.0	50
185558-015	10	5	29.5343	29.5404	0.0061	610.0	50
185558-016	10	5	25.9080	25.9142	0.0062	620.0	50
185558-017	10	5	29.3824	29.3869	0.0045	450.0	50
185558-018	10	5	24.1458	24.1533	0.0075	750.0	50
185558-019	10	5	24.8886	24.8957	0.0071	710.0	50
185558-020	10	5	27.1773	27.1852	0.0079	790.0	50
185558-022	10	5	29.4336	29.4448	0.0112	1,120.0	50
185558-026	10	5	25.2275	25.2326	0.0051	510.0	50
185558-027	10	5	27.4073	27.4137	0.0064	640.0	50

Note: Because the regulatory holding time is based on the prep date, the analysis date referenced above is the prep date.

Reviewed by/ Date: 3-24-6

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TDS (Total Dissolved Solids)
EPA 160.1 / SMWW 2540C

Curtis & Tompkins, Ltd.

LIMS Batch #: ~~111467~~ 111524 RS3/21/06 Prep Date: 3-21-06
Prep Time: 17:30

Benchbook#: **BK2145**
Page: **87**

Filter Mfg/ Lot#: F1672870
Spike WS#: S2182

Spike WS Conc (mg/L): 1500
Spike Vol Added (mL): 5

	In	Out	In-2	Out-2	In-3	Out-3
Date:	3-21-06	3-22-06	3-22-06	3-22-06	3-23-06	3-23-06
Time:	19:00	14:00	16:00	20:30	14:20	15:20
Temp (C):	90°C	180°C	180°C	180°C	180°C	180°C

	Sample # / Letter	EC Value (µS/cm)	Sample Vol. Filtered (mL)	Dish ID	Dish Wt (g)	1st Dry Wt.(g)	2nd Dry Wt (g)*	3rd Dry Wt (g)*
1	~~MB~~		50	AA	49.1742	49.1739	49.1740	
	BS			1	42.8839	42.8905	42.8895	
	BSD			0	47.2901	47.2950	47.2950	
	185552-001B	9,000	5	FKK	24.7218	24.7536	24.7538	
5	SdUp-001			8	25.7144	25.7498	25.7499	
	185514-001B	16,000	1	MM	28.3018	28.3152	28.3150	
	-002	20,800		3	25.0584	25.0706	25.0707	
	-004	303	10	17	27.4169	27.4187	27.4185	
	-005	17,000	1	18	25.4797	25.4893	25.4895	
10	185558-011H	1,613	10	MK	25.4367	25.4576	25.4481	
	-012	1,035		KK	27.1654	27.1735	27.1735	
	-013	1,120		LM	25.0311	25.0332	25.0328	25.0324
	-014	1,539		RR	25.3601	25.3729	23.3730	
	-015	506		RS	29.5343	29.5404	29.5401	
15	-016K	761		LK	25.9080	25.9142	25.9146	
	-017	400		*M	29.3824	29.3869	29.3871	
	-018	990		ΔΔ	24.1458	24.1533	24.1536	
	-019	1,000		⁂	24.8886	24.8957	24.8959	
	-020	978		LM*	27.1773	27.1852	27.1849	27.1850
20	-022	1,310		**	29.4336	29.4448	29.4452	
	-026	722		SS	25.2275	25.2326	25.2327	
	-027	1,200		XX	27.4073	27.4448	27.4161	
	~~185514-003B~~ RS3/21							
							RS 3/21/06	

* Constant weight must be within 0.0005 from previous reading.

RS 3/23/06

RShiffa 3/21/06
Analyst / Date

3-23-6
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111524
Date Started: 21-MAR-2006
Batched by : Radia Shiffa

Analysis : TDS
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185514-001			New Logic Research	Water	TDS	24-MAR-2006
185514-002			New Logic Research	Water	TDS	24-MAR-2006
185514-004			New Logic Research	Water	TDS	24-MAR-2006
185514-005			New Logic Research	Water	TDS	24-MAR-2006
185552-001			Acme Fill Corp.	Water	TDS	27-MAR-2006
185558-011			Treadwell & Rollo	Water	TDS	27-MAR-2006
185558-012			Treadwell & Rollo	Water	TDS	27-MAR-2006
185558-013			Treadwell & Rollo	Water	TDS	27-MAR-2006
185558-014			Treadwell & Rollo	Water	TDS	27-MAR-2006
185558-015			Treadwell & Rollo	Water	TDS	27-MAR-2006
185558-016			Treadwell & Rollo	Water	TDS	27-MAR-2006
185558-017			Treadwell & Rollo	Water	TDS	27-MAR-2006
185558-018			Treadwell & Rollo	Water	TDS	27-MAR-2006
185558-019			Treadwell & Rollo	Water	TDS	27-MAR-2006
185558-020			Treadwell & Rollo	Water	TDS	27-MAR-2006
185558-022			Treadwell & Rollo	Water	TDS	27-MAR-2006
185558-026			Treadwell & Rollo	Water	TDS	27-MAR-2006
185558-027			Treadwell & Rollo	Water	TDS	27-MAR-2006
QC332412	BLANK			Water	TDS	
QC332413	BS			Water	TDS	
QC332414	BSD			Water	TDS	
QC332415	SDUP	of 185552-001		Water	TDS	

Curtis & Tompkins, Ltd.

Total Organic Carbon (TOC)

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 415.2
Analyte:	Total Organic Carbon	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	mg/L	Analyzed:	03/30/06
Batch#:	111869		

Field ID	Type	Lab ID	Result	RL	Diln Fac
600GW109	SAMPLE	185558-016	4.1	0.50	1.000
1065MW102	SAMPLE	185558-017	4.8	0.50	1.000
1065PZ1A	SAMPLE	185558-018	11	0.50	1.000
231PZ04	SAMPLE	185558-019	14	0.50	1.000
231PZ03	SAMPLE	185558-020	12	0.50	1.000
231PZ01	SAMPLE	185558-022	45	1.5	3.000
231GW15	SAMPLE	185558-026	1.5	0.50	1.000
231GW13	SAMPLE	185558-027	3.7	0.50	1.000
	BLANK	QC333775	ND	0.50	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Organic Carbon (TOC)

Lab #:	185558	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 415.2
Analyte:	Total Organic Carbon	Diln Fac:	1.000
Matrix:	Water	Batch#:	111869
Units:	mg/L	Analyzed:	03/30/06

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC333776	10.00	9.793	98	80-120		
BSD	QC333777	10.00	9.425	94	80-120	4	20

RPD= Relative Percent Difference

Analysis:	**Total Inorganic & Organic Carbon**	Date Analyzed:	**30-Mar-06**
Method:	**EPA 415.2 / SMWW 5310c**	Batch #:	**111869**
Matrix:	Water	Analyst:	SY
Instrument:	Tekmar-Dorman		
SOP#:	toc_415_rv 7.doc		

Calibration Range: **0.5- 20ppm** Calibration Date: 16-Feb-05

Standard Conc (mg/L)	Injection Size (mL)	Expected ug C	ABS	RF
0	4.0	0	285214	
0.5	4.0	2.0	1020522	510261
1.0	4.0	4.0	1372216	343054
5.0	4.0	20.0	5433587	271679
10.0	4.0	40.0	10544965	263624
20.0	4.0	80.0	22033950	275424

Correlation Coefficient (r):	0.9995	Slope:	269261
R-Square:	0.9989	Intercept:	229731

Calibration Verification Data

	TOC (mg/L) True Value	Instrument "ppm C"	TOC (mg/L) Report	Recovery	Recovery Limits
ICV	10.0	9.79	9.7931	98%	90% - 110%
ICB	0	0.07	ND		
CCV	10.0	10.57	10.5684	106%	90% - 110%
CCB	0	0.42	ND		
CCV	10.0	9.74	9.7386	97%	90% - 110%
CCB	0	0.34	ND		

30 TKM 3/31/06

Analysis:	**Total Inorganic & Organic Carbon**	Date Analyzed:	~~29~~-Mar-06
Method:	**EPA 415.2 / SMWW 5310c**	Batch #:	**111869**
Matrix:	Water	Analyst:	SY
Instrument:	Tekmar-Dorman		

Batch QC Data

Sample	PDF	Instrument "ppm C"	TOC (mg/L) Report	Reporting Limit (mg/L)	TOC Spike Level (mg/L)	Recovery,%	%RPD
BLANK	1	0.0663	**ND**	0.5			
BS	1	9.7931	**9.7931**	0.5	10	97.9 *	
BSD	1	9.4246	**9.4246**	0.5	10	94.2 *	3.84 *

QC Limits	Recovery	RPD
LCS/ BS/ BSD	80 - 120	20
SSPIKE/ SDUP	80 - 135	20

Sample Data

Sample	IDF	Instrument "ppm C"	TOC (mg/L) Report	Reporting Limit (mg/L)
185511-9	2	14.06	**28.12**	1.0
185558-16	1	4.09	**4.09**	0.5
185558-17	1	4.82	**4.82**	0.5
185558-18	1	11.47	**11.47**	0.5
185558-19	1	13.76	**13.76**	0.5
185558-20	1	12.44	**12.44**	0.5
185558-22	3	14.92	**44.75**	1.5
185558-26	1	1.50	**1.50**	0.5
185558-27	1	3.71	**3.71**	0.5
185650-5	1	2.11	**2.11**	0.5
185650-6	1	1.83	**1.83**	0.5
185650-7	1	2.44	**2.44**	0.5
185650-8	1	3.67	**3.67**	0.5

Jason Spen 3-30-6

Detailed Analysis Report Print Date/Time: 2006/03/30 8:37:10

Sample ID: blk
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300749
Timestamp: 03/30/2006 08:03
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1344	0.5376	273555	33.010	34.009	66
2	0.0825	0.3302	217695	33.084	34.084	59

<<<Statistics>>> Mean: 0.1084 Std Dev: 0.0367 RSD: 33.84

Sample ID: icb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300749
Timestamp: 03/30/2006 08:17
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0663	0.2650	200159	33.225	34.220	59
2	0.0671	0.2684	201054	33.367	34.363	58

<<<Statistics>>> Mean: 0.0667 Std Dev: 0.0006 RSD: 0.85

Sample ID: 15 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300749
Timestamp: 03/30/2006 08:25
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.1312	36.5248	10064419	33.409	34.406	104

Sample ID: blk
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300749
Timestamp: 03/30/2006 08:03
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1344	0.5376	273555	33.010	34.009	66
2	0.0825	0.3302	217695	33.084	34.084	59

<<<Statistics>>> Mean: 0.1084 Std Dev: 0.0367 RSD: 33.84

Sample ID: icb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300749
Timestamp: 03/30/2006 08:17
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0663	0.2650	200159	33.225	34.220	59
2	0.0671	0.2684	201054	33.367	34.363	58

<<<Statistics>>> Mean: 0.0667 Std Dev: 0.0006 RSD: 0.85

Sample ID: 15 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300749
Timestamp: 03/30/2006 08:25
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.1312	36.5248	10064419	33.409	34.406	104

→ not cal failure
wrong setting as 15 ppm
Run started immediately after
SY 3.30.06

Detailed Analysis Report Print Date/Time: 2006/03/30 14:16:52

Sample ID: 10 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 08:54
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.7931	39.1722	10777279	34.018	35.014	132
2	9.4717	37.8866	10431111	34.286	35.282	96

<<<Statistics>>> Mean: 9.6324 Std Dev: 0.2273 RSD: 2.36

Sample ID: bsd
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 09:10
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.4246	37.6983	10279483	34.137	35.135	113
2	9.3958	37.5834	10248527	34.182	35.180	121

<<<Statistics>>> Mean: 9.4102 Std Dev: 0.0204 RSD: 0.22

Sample ID: 185511-9G
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 09:28
Sample Type: Sample

Run @ 2x

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	27.7843	111.1373	30053708	34.043	35.043	185
2	28.5147	114.0589	30840386	34.127	35.125	255

<<<Statistics>>> Mean: 28.1495 Std Dev: 0.5165 RSD: 1.83

Sample ID: 185558-16
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 09:44
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.0892	16.3567	4533007	34.286	35.286	137
2	3.4457	13.7829	3839992	34.369	35.368	137

<<<Statistics>>> Mean: 3.7674 Std Dev: 0.4550 RSD: 12.08

Sample ID: 185511-9H x2 ~~185511 Hx2~~ SY
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 10:01
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.0621	56.2484	15274282	34.301	35.300	183
2	14.2730	57.0922	15501478	34.449	35.449	123

<<<Statistics>>> Mean: 14.1676 Std Dev: 0.1491 RSD: 1.05

Sample ID: 185558-18
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 10:17
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11.4674	45.8695	12479655	34.257	35.256	142
2	11.4790	45.9160	12492173	34.404	35.402	141

<<<Statistics>>> Mean: 11.4732 Std Dev: 0.0082 RSD: 0.07

Sample ID: 185558-19H
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 10:38
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.7633	55.0530	14952412	34.386	35.385	278
2	14.4005	57.6022	15638810	34.596	35.595	278

<<<Statistics>>> Mean: 14.0819 Std Dev: 0.4506 RSD: 3.20

Sample ID: 185558-20H
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 10:56
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	12.4454	49.7818	13533073	34.553	35.553	217
2	12.4957	49.9828	13587211	34.503	35.503	211

<<<Statistics>>> Mean: 12.4706 Std Dev: 0.0356 RSD: 0.29

Sample ID: 185558-22H
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 11:30
Sample Type: Sample

Run @ 3X

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	39.8613	159.4453	43061156	34.533	35.531	643
2	40.8582	163.4330	44134896	34.727	35.726	667

<<<Statistics>>> Mean: 40.3597 Std Dev: 0.7049 RSD: 1.75

Sample ID: 10 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 11:47
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.5684	42.2735	11612320	34.810	35.809	174
2	9.6117	38.4470	10581998	34.687	35.687	158

<<<Statistics>>> Mean: 10.0900 Std Dev: 0.6765 RSD: 6.70

Sample ID: ccb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 12:00
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.4172	1.6689	578159	34.674	35.669	69
2	0.2276	0.9106	373972	34.603	35.594	62

<<<Statistics>>> Mean: 0.3224 Std Dev: 0.1341 RSD: 41.58

Sample ID: 185558-26H
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 12:16
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.5035	6.0141	1748156	34.534	35.532	116
2	1.5161	6.0643	1761665	34.684	35.682	108

<<<Statistics>>> Mean: 1.5098 Std Dev: 0.0089 RSD: 0.59

Sample ID: 185558-27H
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 12:33
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.7108	14.8431	4125451	34.626	35.625	176
2	3.7462	14.9847	4163581	34.629	35.628	175

<<<Statistics>>> Mean: 3.7285 Std Dev: 0.0250 RSD: 0.67

Sample ID: 185650-5
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 12:48
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.1059	8.4235	2396913	34.648	35.637	108
2	2.0536	8.2142	2340569	34.706	35.703	107

<<<Statistics>>> Mean: 2.0798 Std Dev: 0.0370 RSD: 1.78

Sample ID: 185650-6
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 13:02
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.8286	7.3145	2098303	34.729	35.728	85
2	1.7924	7.1698	2059340	34.726	35.722	82

<<<Statistics>>> Mean: 1.8105 Std Dev: 0.0256 RSD: 1.41

Sample ID: 185650-7
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 13:17
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.4437	9.7747	2760743	34.732	35.729	91
2	2.5279	10.1117	2851489	34.645	35.643	99

<<<Statistics>>> Mean: 2.4858 Std Dev: 0.0595 RSD: 2.40

Sample ID: 185650-8
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 13:33
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time

1	3.6724	14.6896	4084139	34.672	35.671	163
2	3.6793	14.7170	4091518	34.936	35.936	142

<<<Statistics>>> Mean: 3.6758 Std Dev: 0.0049 RSD: 0.13

Sample ID: 185558-17
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 13:49
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.8186	19.2744	5318647	34.901	35.900	120
2	4.8375	19.3500	5338998	34.786	35.786	128

<<<Statistics>>> Mean: 4.8281 Std Dev: 0.0134 RSD: 0.28

Sample ID: 185558-22Gx3
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03300839
Timestamp: 03/30/2006 14:16
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.9170	59.6679	16195035	34.820	35.820	465
2	15.2749	61.0994	16580476	34.930	35.929	465

<<<Statistics>>> Mean: 15.0960 Std Dev: 0.2531 RSD: 1.68

Detailed Analysis Report Print Date/Time: 2006/03/30 14:51:19

TOC Std 1000ppm
(52952 - Exp Jun-18-06)
ICV
BSD 2ml → 200ml @ 10ppm

SY 3.30.06

Sample ID: 10 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03301420
Timestamp: 03/30/2006 14:37
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.7386	38.9546	10718664	34.729	35.727	165
2	9.2618	37.0473	10205106	34.841	35.841	153

<<<Statistics>>> Mean: 9.5002 Std Dev: 0.3371 RSD: 3.55

Sample ID: ccb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03301420
Timestamp: 03/30/2006 14:50
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.4856	1.9424	651807	34.797	35.793	67
2	0.3420	1.3679	497125	34.668	35.664	65

<<<Statistics>>> Mean: 0.4138 Std Dev: 0.1015 RSD: 24.54

1st Run

1	2.2572	9.0288	2559909	34.301	35.300	89
2	2.3423	9.3691	2651521	34.289	35.286	93

<<<Statistics>>> Mean: 2.2997 Std Dev: 0.0602 RSD: 2.62

Sample ID: 185650-8A
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03291139
Timestamp: 03/29/2006 16:15
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.4771	13.9085	3873802	34.310	35.309	127
2	3.5127	14.0507	3912093	34.263	35.262	142

<<<Statistics>>> Mean: 3.4949 Std Dev: 0.0252 RSD: 0.72

Sample ID: 185558-16G
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03291139
Timestamp: 03/29/2006 16:30
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.9833	11.9332	3341938	34.314	35.314	109
2	2.9381	11.7524	3293246	34.240	35.237	108

<<<Statistics>>> Mean: 2.9607 Std Dev: 0.0320 RSD: 1.08

Sample ID: 185558-17G
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03291139
Timestamp: 03/29/2006 16:45
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.2952	17.1806	4754865	34.168	35.164	103
2	4.3416	17.3662	4804838	34.072	35.069	86

<<<Statistics>>> Mean: 4.3184 Std Dev: 0.0328 RSD: 0.76

Sample ID: 18558-18G
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03291139
Timestamp: 03/29/2006 17:01
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.7865	43.1460	11746326	34.051	35.050	136
2	10.8882	43.5527	11855824	34.040	35.038	137

<<<Statistics>>> Mean: 10.8373 Std Dev: 0.0719 RSD: 0.66

Sample ID: 18558-26G
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03291139
Timestamp: 03/29/2006 17:15
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.5475	6.1898	1795477	34.029	35.024	102
2	1.3891	5.5562	1624864	33.956	34.956	101

<<<Statistics>>> Mean: 1.4683 Std Dev: 0.1120 RSD: 7.63

Sample ID: 185558-27G
Mode: TOC

Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Filename: 03291139
Timestamp: 03/29/2006 17:33
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.5611	14.2445	3964290	34.046	35.045	170
2	3.5729	14.2918	3977004	34.235	35.233	168

<<<Statistics>>> Mean: 3.5670 Std Dev: 0.0083 RSD: 0.23

Sample ID: 15 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 03291139
Timestamp: 03/29/2006 17:49
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.4700	53.8801	14737517	34.330	35.327	145
2	13.4928	53.9713	14762083	34.238	35.237	146

Last Message: Out of Calibration
<<<Statistics>>> Mean: 13.4814 Std Dev: 0.0161 RSD: 0.12

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111869
Date Started: 30-MAR-2006
Batched by : Sunitha Yerragodula

Analysis : TOC
Bgroup : N/A
Department : Wet Chemistry

Sample	Type	Client	Matrix	Analyses	Due Date
185511-009		Treadwell & Rollo	Water	TOC	24-MAR-2006
185558-016		Treadwell & Rollo	Water	TOC	27-MAR-2006
185558-017		Treadwell & Rollo	Water	TOC	27-MAR-2006
185558-018		Treadwell & Rollo	Water	TOC	27-MAR-2006
185558-019		Treadwell & Rollo	Water	TOC	27-MAR-2006
185558-020		Treadwell & Rollo	Water	TOC	27-MAR-2006
185558-022		Treadwell & Rollo	Water	TOC	27-MAR-2006
185558-026		Treadwell & Rollo	Water	TOC	27-MAR-2006
185558-027		Treadwell & Rollo	Water	TOC	27-MAR-2006
185650-005		Bayer Corporation	Water	TOC	24-MAR-2006
185650-006		Bayer Corporation	Water	TOC	24-MAR-2006
185650-007		Bayer Corporation	Water	TOC	24-MAR-2006
185650-008		Bayer Corporation	Water	TOC	24-MAR-2006
QC333775	BLANK		Water	TOC	
QC333776	BS		Water	TOC	
QC333777	BSD		Water	TOC	

Total Organic Carbon
by Walkley-Black Method
Method Detection Limit Study

Analysis:	**Total Organic Carbon**	Analysis Date:	**6-May-05**
Method:	EPA 415.2 / SM 5310C	Batch:	101838
Matrix:	Water	Analyst:	DW

Conc. (mg/L)	0.500
1	0.6200
2	0.5500
3	0.5500
4	0.5800
5	0.6200
6	0.6300
7	0.5500
STDEVP	0.034166
Student's t-value	3.143
ML (mg/L)	**0.1074**
RL (mg/L)	0.50
Status	PASS

Note: Student-T value for 7 replicates = 3.143, for 8 replicates = 2.998

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 185586

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.04.51
Location: Presidio

Sample ID	Lab ID	Sample ID	Lab ID
600GW102	185586-001	BB3SW101	185586-014
600GW103	185586-002	1065PZ7A	185586-015
600GW104	185586-003	1065PZ7B	185586-016
BHWGW04	185586-004	231GW09	185586-017
HWGW100	185586-005	231GW11	185586-018
HWGW101	185586-006	231GW23	185586-019
HWGW101RB04	185586-007	231GW25	185586-020
937GW15	185586-008	231GW28	185586-021
DAEGW07	185586-009	231GW27	185586-022
BB3PZ102	185586-010	231GW20	185586-023
BB3SW102	185586-011	231GW18	185586-024
TB0315063A	185586-012	231GW17	185586-025
BB3SW100	185586-013	231GW06	185586-026

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 4/19/06
Operations Manager

Signature: _____ Date: 4/18/06
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**185586**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**03/16/06**
Samples Received:	**03/16/06**

This hardcopy data package contains sample and QC results for twenty six water samples, requested for the above referenced project on 03/16/06. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):
No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
Low responses were observed for bromomethane in the CCV analyzed 03/21/06 08:28 and the CCV analyzed 03/21/06 08:31; this analyte met minimum response criteria. High surrogate recoveries were observed for 1,2-dichloroethane-d4 in many samples; no associated target analytes were detected in the sample. No other analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):
Low responses were observed for 3,3'-dichlorobenzidine and 4-nitroaniline in the ICV analyzed 03/10/06 17:43; these analytes were not detected at or above the RL in the associated samples. Low responses were observed for bis(2-chloroisopropyl) ether in the CCV analyzed 03/22/06 17:44 and the CCV analyzed 03/23/06 12:02; this analyte met minimum response criteria. No other analytical problems were encountered.

Pesticides (EPA 8081A):
No analytical problems were encountered.

Polychlorinated Biphenyls (PCBs) (EPA 8082):
No analytical problems were encountered.

Polynuclear Aromatics by HPLC (EPA 8310):
No analytical problems were encountered.

Metals (EPA 6020) Water:
No analytical problems were encountered.

Metals (EPA 6020 and EPA 7470A) Filtrate:
Responses exceeding the instrument's linear range were observed for calcium, magnesium, and sodium in the MS/MSD of 1349MW02 (lab # 185457-016). High % differences were observed for iron and potassium in the serial dilution of

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**185586**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**03/16/06**
Samples Received:	**03/16/06**

Metals (EPA 6020 and EPA 7470A) Filtrate:
1349MW02 (lab # 185457-016). No other analytical problems were encountered.

Ion Chromatography (EPA 300.0):
No analytical problems were encountered.

Alkalinity (EPA 310.1):
No analytical problems were encountered.

Sulfide (EPA 376.2):
High recoveries were observed for sulfide in the MS/MSD of 1065PZ7A (lab # 185586-015); the LCS was within limits, the associated RPD was within limits, and this analyte was not detected at or above the RL in the associated samples. No other analytical problems were encountered.

Total Dissolved Solids (TDS) (EPA 160.1):
High RPD was observed for total dissolved solids in the SDUP of 1065PZ7A (lab # 185586-015). No other analytical problems were encountered.

Total Organic Carbon (TOC) (EPA 415.2):
No analytical problems were encountered.

Chain of Custody

Treadwell&Rollo

Environmental and Geotechnical Consultants

555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

185586

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2043
Page: 1 of 1

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): Blaine Tech Brian Pound
Recorder (signature required): Brian Pound
Sent to Laboratory (Name): Curtis & Tompkins

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

REQUESTED ANALYSES

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M)[1]	TPHfo (8015M)[1]	VOCs (8260) MTBE	General Chemistry[2]	OCPs (8081)	Metals - Dissolved[3] (23, 22, 13, 9, 8, 7, 3, Other) 4; Solved (4)	Metals - [redacted][3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	Total Organic Carbons (9060)	Total Sulfide (3362)					COMMENTS / NOTES
-1	600GW102	3-15	900			X		6	2	1	1	4	X	X	X	X	X			X	X	X	X	X					
-2	600GW103		955			X		6	2	1	1	4	X	X	X	X	X			X	X	X	X	X					
-3	600GW104		1050			X		6	2	1	1	4	X	X	X	X	X			X	X	X	X	X					
	~~23GW06~~		~~1200~~			~~X~~		~~6~~	~~2~~	~~1~~	~~1~~	~~2~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			~~X~~	~~X~~		~~X~~	~~X~~					
-4	BHWGW04		1615			X		3		1		1				X	X		X										
-5	HWGW100		1420			X		3		1		1				X	X		X										
-6	HWGW101		1520			X		3		1		1				X	X		X										
-7	HWGW101RB04		1530			X		3		1		1				X	X		X										

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY: Brian Pound	DATE: 3/16/06	RECEIVED BY: [signature]	DATE: 3/16/06
PRINT NAME: Brian Pound FIRM: Blaine Tech	TIME: 1200	PRINT NAME: AARON GRENIER FIRM: CT	TIME: 1200
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
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ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

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185586

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2044
Page: ____ of ____

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTS, John DeJong
Recorder (signature required): John DeJong
Sent to Laboratory (Name): CAT

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Water	Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) MTBE	General Chemistry [2]	OCPs (8081) PCB's	Metals - Dissolved [3] (23, 13, 9, 8, 7, 3, Other)	Metals - Total [3] (23, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	COMMENTS / NOTES
-8	937GW15	3/15/06	0940			X		6				1	X	X	X	X							
-9	DAEGW07	↓	1145			X		6		1		7	X	X	X	X	X	X	X		X	X	
-10	BB3PZ102		1420			X		3		2		2	X	X	X		X		X	X	X		
-11	BB35W102		1540			X		3		2		2	X	X	X		X		X	X	X		
-12	TB031506 3A		—			X		2								X							
-13	BB35W100		1450			X		3				1	X	X	X								
-14	BB35W101		1600			X		3				1	X	X	X								

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (Other -)

RELINQUISHED BY: John DeJong	DATE: 3/16/06	RECEIVED BY:	DATE: 3/16/06
PRINT NAME: FIRM:	TIME: 1200	PRINT NAME: AARON GRENIER FIRM: CAT	TIME: 1200
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

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185586

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2045
Page: ___ of ___

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTS, P. Cornish
Recorder (signature required): [signature]
Sent to Laboratory (Name):

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) MTBE	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other) (15)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	Total Sulfide	BTEX, MTBE	Diss Metals (23)	TOC	Metals (Prosolve) (47)	COMMENTS / NOTES
-15	1065PE7A	3/15/06	945			X		9		3	3	6	X	X	X		X		X		X		X	X				MS/MSD
-16	1065PE7B	↓	1100			X		3		1	1	2	X	X	X		X		X		X		X	X				
-17	231GW09		1200			X		6	2	1	1	2	X	X	X	X	X		X		X		X		X		X	
-18	231GW11		1300			X		6	2	1	1	2	X	X	X	X	X		X		X		X			X	X	
-19	231GW23		1355			X		6	2	1	1	2	X	X	X	X	X		X		X		X			X	X	
-20	231GW25		1450			X		6	2	1	1	2	X	X	X	X	X		X		X		X			X	X	
-21	231GW28		1620			X		6	2	1	1	2	X	X	X	X	X		X		X		X			X	X	

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY: [signature]	DATE: 3/16/06	RECEIVED BY: [signature]	DATE: 3/16/06
PRINT NAME:	FIRM: TIME: 1200	PRINT NAME: AARON GRENIER	FIRM: CHT TIME: 1200
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185586

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2046
Page: 1 of 1

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTS / Devin Raynal
Recorder (signature required): [signature]
Sent to Laboratory (Name): CTT

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) MTBE	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other) 14	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	TOC	Total Sulfide	COMMENTS / NOTES
22	231 GW 27	3/15/06	1555			X		6	2	1		3	X	X	X	X	X		X		X		X	X	
23	231 GW 20		1500			X		6	2	1		3	X	X	X	X	X		X		X		X	X	
24	231 GW 18		1240			X		6	2	1		3	X	X	X	X	X		X		X		X	X	
25	231 GW 17		1145			X		6	2	1		3	X	X	X	X	X		X		X		X	X	
26	231 GW 06		945			X		6	2	1		3	X	X	X	X	X		X		X		X	X	

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY: [signature]	DATE: 3/16/06	RECEIVED BY: [signature]	DATE: 3/16/06
PRINT NAME: FIRM:	TIME: 1200	PRINT NAME: ANDREW GRENIER FIRM: CTT	TIME: 1200
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PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

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Reason for change: X Client Request By: J.Graber Date/Time: 3/21/06 15:32 Initials: SES

Login Review Data Review

Current Lab ID	Previous Lab ID	Client ID	Matrix	Add/Cancel	Analysis	Duedate
185586-009		DAEGW07	Water	Add	8270-1	3/28

Steven Stanley

From: "Joshua Graber" <jdgraber@treadwellrollo.com>
To: "Steve Stanley" <steve@ctberk.com>
Cc: "Carole Nuttall" <cnuttall@treadwellrollo.com>; "Gil Shenker" <gshenker@treadwellrollo.com>; "Greg Johnson" <gejohnson@treadwellrollo.com>; <bjones@blainetech.com>; <dataval@msn.com>
Sent: Tuesday, March 21, 2006 2:51 PM
Subject: RE: 2893.04.51 - C&T Login Summary (185586)

Steve,

Please add SVOC analysis to sample DAEGW07, associated with this Login Summary.

Thanks!

Joshua D. Graber
Senior Project Manager / Scientist
Treadwell & Rollo, Inc.

****
This information is intended solely for use by the individual or entity named as the recipient hereof and may be an attorney work product that is privileged and confidential or it may contain confidential company information. If you are not the intended recipient, be aware that any disclosure, copying, distribution, or use of the contents of this transmission is prohibited. If you have received this communication in error, please notify us immediately by return e-mail or by e-mail to info@treadwellrollo.com, and destroy this communication and all copies thereof, including attachments.
****

From: Steve Stanley [mailto:steve@ctberk.com]
Sent: Friday, March 17, 2006 10:35 AM
To: Joshua Graber
Cc: Carole Nuttall; Gil Shenker; Greg Johnson; bjones@blainetech.com; dataval@msn.com
Subject: 2893.04.51 - C&T Login Summary (185586)

C&T Login Summary for 185586

Project:

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 185586 Date Received: 3/16/05 Number of Coolers: 6
Client: Treadwell + Robbo Project: Presidio

A. Preliminary Examination Phase
Date Opened: 3/16/06 By (print): Robin P. (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? 1 on lid Seal date: 3/16/06 Seal name: [illegible]
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: 4.2°, 2.5°, 2°, 1.8°, 1°, 2.5°

B. Login Phase
Date Logged In: 3/16/06 By (print): Robin P. (sign) [signature]

1. Describe type of packing in cooler: zip loc bags
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

_____

TOTAL VOLATILE HYDROCARBONS/

BTXE

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	600GW102	Batch#:	111392
Lab ID:	185586-001	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	101	65-135
Bromofluorobenzene (FID)	98	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	600GW103	Batch#:	111392
Lab ID:	185586-002	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	65-135
Bromofluorobenzene (FID)	102	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	600GW104	Batch#:	111392
Lab ID:	185586-003	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	65-135
Bromofluorobenzene (FID)	102	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	937GW15	Batch#:	111392
Lab ID:	185586-008	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	108	65-135
Bromofluorobenzene (FID)	109	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	DAEGW07	Batch#:	111392
Lab ID:	185586-009	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	65-135
Bromofluorobenzene (FID)	97	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	BB3PZ102	Batch#:	111392
Lab ID:	185586-010	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	108	65-135
Bromofluorobenzene (FID)	110	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	BB3SW102	Batch#:	111392
Lab ID:	185586-011	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	108	65-135
Bromofluorobenzene (FID)	112	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	BB3SW100	Batch#:	111392
Lab ID:	185586-013	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	65-135
Bromofluorobenzene (FID)	106	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	BB3SW101	Batch#:	111392
Lab ID:	185586-014	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	106	65-135
Bromofluorobenzene (FID)	107	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1065PZ7A	Batch#:	111392
Lab ID:	185586-015	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	16	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	93	65-135	EPA 8015B
Bromofluorobenzene (FID)	95	65-135	EPA 8015B
Trifluorotoluene (PID)	89	65-135	EPA 8021B
Bromofluorobenzene (PID)	88	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1065PZ7B	Batch#:	111392
Lab ID:	185586-016	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	106	65-135	EPA 8015B
Bromofluorobenzene (FID)	106	65-135	EPA 8015B
Trifluorotoluene (PID)	100	65-135	EPA 8021B
Bromofluorobenzene (PID)	102	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	231GW09	Batch#:	111392
Lab ID:	185586-017	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	108	65-135
Bromofluorobenzene (FID)	111	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	231GW11	Batch#:	111392
Lab ID:	185586-018	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	105	65-135
Bromofluorobenzene (FID)	107	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	231GW23	Batch#:	111392
Lab ID:	185586-019	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	93	65-135
Bromofluorobenzene (FID)	96	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	231GW25	Batch#:	111392
Lab ID:	185586-020	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	65-135
Bromofluorobenzene (FID)	100	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	231GW28	Batch#:	111392
Lab ID:	185586-021	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	101	65-135
Bromofluorobenzene (FID)	107	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	231GW27	Batch#:	111392
Lab ID:	185586-022	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	65-135
Bromofluorobenzene (FID)	102	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	231GW20	Batch#:	111392
Lab ID:	185586-023	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	107	65-135
Bromofluorobenzene (FID)	112	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	231GW18	Batch#:	111392
Lab ID:	185586-024	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	101	65-135
Bromofluorobenzene (FID)	100	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	231GW17	Batch#:	111392
Lab ID:	185586-025	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/18/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	65-135
Bromofluorobenzene (FID)	101	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	231GW06	Batch#:	111402
Lab ID:	185586-026	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	111	65-135
Bromofluorobenzene (FID)	111	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331856	Batch#:	111392
Matrix:	Water	Analyzed:	03/16/06
Units:	ug/L		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	103	65-135	EPA 8015B
Bromofluorobenzene (FID)	102	65-135	EPA 8015B
Trifluorotoluene (PID)	100	65-135	EPA 8021B
Bromofluorobenzene (PID)	98	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC331896	Batch#:	111402
Matrix:	Water	Analyzed:	03/17/06
Units:	ug/L		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	108	65-135	EPA 8015B
Bromofluorobenzene (FID)	105	65-135	EPA 8015B
Trifluorotoluene (PID)	103	65-135	EPA 8021B
Bromofluorobenzene (PID)	103	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8021B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331857	Batch#:	111392
Matrix:	Water	Analyzed:	03/16/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
MTBE	20.00	19.29	96	65-135
Benzene	20.00	18.70	93	65-135
Toluene	20.00	18.46	92	65-135
Ethylbenzene	20.00	19.83	99	65-135

Surrogate	%REC	Limits
Trifluorotoluene (PID)	102	65-135
Bromofluorobenzene (PID)	101	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331858	Batch#:	111392
Matrix:	Water	Analyzed:	03/16/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	1,972	99	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	126	65-135
Bromofluorobenzene (FID)	109	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC331898	Batch#:	111402
Matrix:	Water	Analyzed:	03/17/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,026	103	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	118	65-135
Bromofluorobenzene (FID)	111	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1065PZ7A	Batch#:	111392
MSS Lab ID:	185586-015	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/17/06
Diln Fac:	1.000		

Type: MS Lab ID: QC331859

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	15.73	2,000	1,951	97	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	126	65-135
Bromofluorobenzene (FID)	115	65-135

Type: MSD Lab ID: QC331860

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,964	97	65-135	1	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	130	65-135
Bromofluorobenzene (FID)	122	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	111402
MSS Lab ID:	185614-001	Sampled:	03/15/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/18/06
Diln Fac:	1.000		

Type: MS Lab ID: QC331992

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	268.4	2,000	2,129	93	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	129	65-135
Bromofluorobenzene (FID)	117	65-135

Type: MSD Lab ID: QC331993

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,088	91	65-135	2	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	122	65-135
Bromofluorobenzene (FID)	116	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185586 GCVOA Water: EPA 8015B

Inst : GC04
Calnum : 306105768001
Units : ng

Name : GAS
Date : 14-MAR-2006 12:00
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	073_003	306105768003	tvh 1	14-MAR-2006 12:00	S2395 (1000X), S2543 (5000X)
L2	073_004	306105768004	tvh 2	14-MAR-2006 12:36	S2396 (1000X), S2543 (5000X)
L3	073_005	306105768005	tvh 3	14-MAR-2006 13:12	S2397 (1000X), S2543 (5000X)
L4	073_006	306105768006	tvh 4	14-MAR-2006 13:48	S2399 (2000X), S2543 (5000X)
L5	073_007	306105768007	tvh 5	14-MAR-2006 14:24	S2399 (1000X), S2543 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	5030.6	4195.1	4359.4	4377.7	4108.0	AVRG		2.27E-4		4414.2	8	0.995	20	

41

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

306105768001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185586 GCVOA Water
EPA 8015B

Inst : GC04
Calnum : 306105768001

Name : GAS
Cal Date: 14-MAR-2006

ICV 306105768009 (073_009 14-MAR-2006) stds: S2557 (1000X), S2543 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	A	10000	10360	ng	4	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185586 GCVOA Water: EPA 8021B

Inst : GC04
Calnum : 306105768002
Units : ng

Name : MBTXE
Date : 14-MAR-2006 17:39
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	073_012	306105768012	btxe 1	14-MAR-2006 17:39	S2850 (1000X), S2543 (5000X)
L2	073_013	306105768013	mtbe 1	14-MAR-2006 18:15	S2849 (1250X), S2543 (5000X)
L3	073_014	306105768014	mbtxe 2	14-MAR-2006 18:51	S2849 (500X), S2543 (5000X)
L4	073_015	306105768015	mbtxe 3	14-MAR-2006 19:27	S2849 (125X), S2543 (5000X)
L5	073_016	306105768016	mbtxe 4	14-MAR-2006 20:03	S2848 (1000X), S2543 (5000X)
L6	073_017	306105768017	mbtxe 5	14-MAR-2006 20:39	S2848 (500X), S2543 (5000X)
L7	073_018	306105768018	mbtxe 6	14-MAR-2006 21:15	S2848 (250X), S2543 (5000X)
L8	073_019	306105768019	mtbe 7	14-MAR-2006 21:51	S2847 (500X), S2543 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
MTBE	B		1934.5	2577.9	2582.3	2205.2	2150.8	2095.3	2023.7	AVRG		4.50E-4		2224.3	12	0.995	20	
Benzene	B	7327.2		5598.8	5509.2	5550.2	5330.4	5225.0		AVRG		1.74E-4		5756.8	14	0.995	20	
Toluene	B	7568.8		5807.2	5203.4	5066.9	4864.0	4760.8		AVRG		1.80E-4		5545.2	19	0.995	20	
Ethylbenzene	B	3687.2		4461.6	4339.8	4410.9	4249.1	4164.6		AVRG		2.37E-4		4218.9	7	0.995	20	
m,p-Xylenes	B	6620.4		6378.5	5847.0	5907.2	5666.3	5568.8		AVRG		1.67E-4		5998.0	7	0.995	20	
o-Xylene	B	5955.6		4732.8	4472.9	4419.9	4247.0	4163.4		AVRG		2.14E-4		4665.3	14	0.995	20	
MTBE	C		610.80	724.16	851.65	886.42	914.72	899.08	844.07	AVRG		0.00122		818.70	14	0.995	20	
Benzene	C	1292.8		1930.8	2189.9	2389.1	2313.5	2192.9		AVRG		4.87E-4		2051.5	20	0.995	20	
Toluene	C	1487.2		1849.8	2046.8	2209.7	2147.9	2057.5		AVRG		5.09E-4		1966.5	13	0.995	20	
Ethylbenzene	C	1140.4		1621.7	1840.6	1976.4	1922.1	1842.5		AVRG		5.80E-4		1723.9	18	0.995	20	
m,p-Xylenes	C	1956.0		2273.6	2515.6	2638.8	2550.7	2436.8		AVRG		4.17E-4		2395.3	10	0.995	20	
o-Xylene	C	1142.0		1665.8	1888.9	2020.6	1969.3	1872.3		AVRG		5.68E-4		1759.8	19	0.995	20	

43

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

306105768002

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185586 GCVOA Water
EPA 8021B

Inst : GC04
Calnum : 306105768002

Name : MBTXE
Cal Date: 14-MAR-2006

ICV 306105768022 (073_022 14-MAR-2006) stds: S2157 (1000X), S2543 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
MTBE	B	100.0	88.85	ng	-11	15	
Benzene	B	100.0	101.5	ng	2	15	
Toluene	B	100.0	98.54	ng	-1	15	
Ethylbenzene	B	100.0	107.2	ng	7	15	
m,p-Xylenes	B	200.0	181.6	ng	-9	15	
o-Xylene	B	100.0	96.81	ng	-3	15	
MTBE	C	100.0	71.73	ng	**-28**	15	
Benzene	C	100.0	113.2	ng	13	15	
Toluene	C	100.0	111.0	ng	11	15	
Ethylbenzene	C	100.0	111.5	ng	12	15	
m,p-Xylenes	C	200.0	201.0	ng	0	15	
o-Xylene	C	100.0	110.5	ng	10	15	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185586 GCVOA Water: EPA 8015B / EPA 8021B

Inst : GC04
Calnum : 306105768003
Units : ng

Name : TFT/BFB
Date : 15-MAR-2006 13:55
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	073_025	306105768025	tft/bfb 1	15-MAR-2006 13:55	S2572 (5000X)
L2	073_026	306105768026	tft/bfb 2	15-MAR-2006 14:53	S2573 (5000X)
L3	073_027	306105768027	tft/bfb 3	15-MAR-2006 15:31	S2574 (5000X)
L4	073_028	306105768028	tft/bfb 4	15-MAR-2006 16:07	S2575 (5000X)
L5	073_029	306105768029	tft/bfb 5	15-MAR-2006 16:47	S2576 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	3571.5	2906.2	3785.3	3617.0	3585.5	AVRG		2.86E-4		3493.1	10	0.995	20	
Bromofluorobenzene (FID)	A	2332.7	1945.0	2539.6	2355.1	2421.4	AVRG		4.31E-4		2318.8	10	0.995	20	
Trifluorotoluene (PID)	B	1322.5	1069.7	1375.0	1309.5	1290.5	AVRG		7.85E-4		1273.4	9	0.995	20	
Bromofluorobenzene (PID)	B	2762.2	2325.6	3024.1	2841.8	2911.4	AVRG		3.61E-4		2773.0	10	0.995	20	
Trifluorotoluene (PID)	C	430.71	366.77	529.21	540.88	560.01	AVRG		0.00206		485.52	17	0.995	20	
Bromofluorobenzene (PID)	C	945.31	810.87	1202.8	1182.8	1254.0	AVRG		9.27E-4		1079.2	18	0.995	20	

45

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

306105768003

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185586 GCVOA Water: EPA 8015B

Inst : GC05
Calnum : 315497353001
Units : ng

Name : tvh
Date : 11-DEC-2005 10:16
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	345_003	315497353003	tvh 1	11-DEC-2005 10:16	S1367 (1000X), S1895 (5000X)
L2	345_004	315497353004	tvh 2	11-DEC-2005 10:48	S1368 (1000X), S1895 (5000X)
L3	345_005	315497353005	tvh 3	11-DEC-2005 11:19	S1369 (1000X), S1895 (5000X)
L4	345_006	315497353006	tvh 4	11-DEC-2005 11:51	S1370 (2000X), S1895 (5000X)
L5	345_007	315497353007	tvh 5	11-DEC-2005 12:23	S1370 (1000X), S1895 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	G	1693.0	1307.5	1282.8	1171.1	1217.8	AVRG		7.49E-4		1334.5	16	0.995	20	

46

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

315497353001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185586 GCVOA Water
EPA 8015B

Inst : GC05
Calnum : 315497353001

Name : tvh
Cal Date: 11-DEC-2005

ICV 315497353010 (345_010 11-DEC-2005) stds: S2241 (1000X), S1895 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	G	10000	9115	ng	-9	

315497353001 ICVs

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185586 GCVOA Water: EPA 8021B

Inst : GC05
Calnum : 316062601001
Units : ng

Name : MBTXE
Date : 12-FEB-2006 14:34
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	043_005	316062601005	btxe 1	12-FEB-2006 14:34	S2368 (1000X), S2543 (5000X)
L2	043_006	316062601006	mtbe 1	12-FEB-2006 15:06	S2367 (1250X), S2543 (5000X)
L3	043_007	316062601007	mbtxe 2	12-FEB-2006 15:38	S2367 (500X), S2543 (5000X)
L4	043_008	316062601008	mbtxe 3	12-FEB-2006 16:10	S2367 (125X), S2543 (5000X)
L5	043_009	316062601009	mbtxe 4	12-FEB-2006 16:42	S2366 (1000X), S2543 (5000X)
L6	043_010	316062601010	mbtxe 5	12-FEB-2006 17:13	S2366 (500X), S2543 (5000X)
L7	043_011	316062601011	mbtxe 6	12-FEB-2006 17:45	S2366 (250X), S2543 (5000X)
L8	043_012	316062601012	mtbe 7	12-FEB-2006 18:17	S1492 (500X), S2543 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
MTBE	H		500.50	507.40	495.60	549.62	570.21	548.04	496.84	AVRG		0.00191		524.03	6	0.995	20	
Benzene	H	1636.0		1390.9	1369.3	1430.7	1444.7	1442.5		AVRG		6.89E-4		1452.4	7	0.995	20	
Toluene	H	1558.0		1351.6	1324.7	1322.4	1342.2	1335.2		AVRG		7.29E-4		1372.3	7	0.995	20	
Ethylbenzene	H	1196.0		1171.3	1134.0	1149.3	1152.6	1141.2		AVRG		8.64E-4		1157.4	2	0.995	20	
m,p-Xylenes	H	1636.0		1404.5	1425.6	1414.8	1407.6	1395.4		AVRG		6.91E-4		1447.3	6	0.995	20	
o-Xylene	H	1328.0		1159.0	1154.6	1142.8	1149.6	1128.8		AVRG		8.50E-4		1177.1	6	0.995	20	
MTBE	I		134.10	153.84	165.11	209.16	228.42	230.46	215.86	AVRG		0.00524		190.99	20	0.995	20	
Benzene	I	424.80		443.80	505.67	580.08	602.82	619.99		AVRG		0.00189		529.53	16	0.995	20	
Toluene	I	342.00		413.68	471.62	538.20	562.15	579.48		AVRG		0.00206		484.52	19	0.995	20	
Ethylbenzene	I	315.26		373.81	422.87	485.20	502.89	521.53		AVRG		0.00229		436.93	19	0.995	20	
m,p-Xylenes	I	463.32		427.11	496.13	565.88	587.17	611.29		AVRG		0.00190		525.15	14	0.995	20	
o-Xylene	I	306.48		357.56	411.56	471.31	495.69	514.60		AVRG		0.00235		426.20	19	0.995	20	

48

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

316062601001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185586 GCVOA Water
EPA 8021B

Inst : GC05 Name : MBTXE
Calnum : 316062601001 Cal Date: 12-FEB-2006

ICV 316062601015 (043_015 12-FEB-2006) stds: S2157 (1000X), S2543 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
MTBE	H	100.0	84.56	ng	-15	15	
Benzene	H	100.0	100.9	ng	1	15	
Toluene	H	100.0	101.7	ng	2	15	
Ethylbenzene	H	100.0	100.4	ng	0	15	
m,p-Xylenes	H	200.0	205.6	ng	3	15	
o-Xylene	H	100.0	101.2	ng	1	15	
MTBE	I	100.0	87.71	ng	-12	15	
Benzene	I	100.0	111.3	ng	11	15	
Toluene	I	100.0	108.2	ng	8	15	
Ethylbenzene	I	100.0	107.9	ng	8	15	
m,p-Xylenes	I	200.0	217.8	ng	9	15	
o-Xylene	I	100.0	103.0	ng	3	15	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185586 GCVOA Water: EPA 8015B / EPA 8021B

Inst : GC05
Calnum : 316013420001
Units : ng

Name : TFT/BFB
Date : 09-JAN-2006 12:00
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	009_006	316013420006	tft/bfb 1	09-JAN-2006 12:00	S1889 (5000X)
L2	009_007	316013420007	tft/bfb 2	09-JAN-2006 12:32	S1890 (5000X)
L3	009_008	316013420008	tft/bfb 3	09-JAN-2006 13:04	S1891 (5000X)
L4	009_009	316013420009	tft/bfb 4	09-JAN-2006 13:42	S1892 (5000X)
L5	009_010	316013420010	tft/bfb 5	09-JAN-2006 14:13	S1893 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	G	1339.7	1422.7	1133.8	1120.9	1121.5	AVRG		8.15E-4		1227.7	12	0.995	20	
Bromofluorobenzene (FID)	G	858.52	958.51	732.70	751.93	754.50	AVRG		0.00123		811.23	12	0.995	20	
Trifluorotoluene (PID)	H	455.13	504.69	437.53	455.86	452.98	AVRG		0.00217		461.24	6	0.995	20	
Bromofluorobenzene (PID)	H	901.33	1032.5	919.64	956.84	945.96	AVRG		0.00105		951.26	5	0.995	20	
Trifluorotoluene (PID)	I	138.14	152.07	139.19	147.34	149.65	AVRG		0.00688		145.28	4	0.995	20	
Bromofluorobenzene (PID)	I	287.49	334.84	315.38	332.14	331.18	AVRG		0.00312		320.20	6	0.995	20	

50

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

316013420001

CONTINUING CALIBRATION SUMMARY FOR 185586 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Gasoline C7-C12

Instid	Ch	Seqnum	Injected	Calnum	Caldate	RF/CF	Avg RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC04	A	306108861003	16-MAR-2006 15:47	306105768001	14-MAR-2006	4414.2	4353.2	10000	9861.9	ng	-1	15	
GC04	A	306108861014	17-MAR-2006 13:37	306105768001	14-MAR-2006	4414.2	4109.7	15000	13965	ng	-7	15	
GC04	A	306108861015	17-MAR-2006 14:13	306105768001	14-MAR-2006	4414.2	4199.2	15000	14270	ng	-5	15	
GC04	A	306108861026	17-MAR-2006 20:49	306105768001	14-MAR-2006	4414.2	4138.9	10000.0	9376.4	ng	-6	15	
GC04	A	306108861027	17-MAR-2006 21:25	306105768001	14-MAR-2006	4414.2	4050.5	10000.0	9176.0	ng	-8	15	
GC04	A	306108861033	18-MAR-2006 01:01	306105768001	14-MAR-2006	4414.2	4015.7	5000.0	4548.6	ng	-9	15	
GC05	G	316110012002	17-MAR-2006 10:17	315497353001	11-DEC-2005	1334.5	1369.7	5000.0	5132.1	ng	3	15	
GC05	G	316110012014	17-MAR-2006 16:51	315497353001	11-DEC-2005	1334.5	1264.3	10000.0	9474.1	ng	-5	15	
GC05	G	316110012015	17-MAR-2006 17:23	315497353001	11-DEC-2005	1334.5	1297.1	10000.0	9719.8	ng	-3	15	
GC05	G	316110012028	18-MAR-2006 00:16	315497353001	11-DEC-2005	1334.5	1263.3	15000	14200	ng	-5	15	
GC05	G	316110012029	18-MAR-2006 00:47	315497353001	11-DEC-2005	1334.5	1243.1	15000	13974	ng	-7	15	
GC05	G	316110012040	18-MAR-2006 06:30	315497353001	11-DEC-2005	1334.5	1328.9	5000.0	4979.1	ng	0	15	

CONTINUING CALIBRATION SUMMARY FOR 185586 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: MTBE

Instid	Ch	Seqnum	Injected	Calnum	Caldate	RF/CF	Avg RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC04	B	306108861002	16-MAR-2006 15:10	306105768002	14-MAR-2006	2224.3	2144.8	100.00	96.428	ng	-4	15	
GC04	C	306108861002	16-MAR-2006 15:10	306105768002	14-MAR-2006	818.70	746.56	100.00	91.188	ng	-9	15	v-
GC04	B	306108861012	17-MAR-2006 12:25	306105768002	14-MAR-2006	2224.3	2041.7	150.00	137.69	ng	-8	15	
GC04	C	306108861012	17-MAR-2006 12:25	306105768002	14-MAR-2006	818.70	832.76	150.00	152.58	ng	2	15	

-=low bias v=ICV

CONTINUING CALIBRATION SUMMARY FOR 185586 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Benzene

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC04	B	306108861002	16-MAR-2006 15:10	306105768002	14-MAR-2006	5756.8	5382.5	100.00	93.497	ng	-7	15	
GC04	C	306108861002	16-MAR-2006 15:10	306105768002	14-MAR-2006	2051.5	2155.9	100.00	105.09	ng	5	15	
GC04	B	306108861012	17-MAR-2006 12:25	306105768002	14-MAR-2006	5756.8	5109.4	150.00	133.13	ng	-11	15	
GC04	C	306108861012	17-MAR-2006 12:25	306105768002	14-MAR-2006	2051.5	2426.0	150.00	177.39	ng	**18**	15	c+ ***
GC05	H	316110012001	17-MAR-2006 09:32	316062601001	12-FEB-2006	1452.4	1258.4	50.000	43.323	ng	-13	15	
GC05	I	316110012001	17-MAR-2006 09:32	316062601001	12-FEB-2006	529.53	491.96	50.000	46.453	ng	-7	15	
GC05	H	316110012013	17-MAR-2006 16:20	316062601001	12-FEB-2006	1452.4	1201.6	100.00	82.734	ng	**-17**	15	c- ***
GC05	I	316110012013	17-MAR-2006 16:20	316062601001	12-FEB-2006	529.53	512.94	100.00	96.868	ng	-3	15	
GC05	H	316110012027	17-MAR-2006 23:44	316062601001	12-FEB-2006	1452.4	1228.7	150.00	126.90	ng	-15	15	
GC05	I	316110012027	17-MAR-2006 23:44	316062601001	12-FEB-2006	529.53	515.78	150.00	146.11	ng	-3	15	
GC05	H	316110012038	18-MAR-2006 05:28	316062601001	12-FEB-2006	1452.4	1242.3	50.000	42.768	ng	-14	15	
GC05	I	316110012038	18-MAR-2006 05:28	316062601001	12-FEB-2006	529.53	505.68	50.000	47.748	ng	-5	15	

Ch. B used

TVH only

+=high bias -=low bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 185586 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Toluene

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC04	B	306108861002	16-MAR-2006 15:10	306105768002	14-MAR-2006	5545.2	5117.6	100.00	92.290	ng	-8	15	
GC04	C	306108861002	16-MAR-2006 15:10	306105768002	14-MAR-2006	1966.5	2115.1	100.00	107.56	ng	8	15	
GC04	B	306108861012	17-MAR-2006 12:25	306105768002	14-MAR-2006	5545.2	4861.0	150.00	131.49	ng	-12	15	
GC04	C	306108861012	17-MAR-2006 12:25	306105768002	14-MAR-2006	1966.5	2266.6	150.00	172.89	ng	15	15	
GC05	H	316110012001	17-MAR-2006 09:32	316062601001	12-FEB-2006	1372.3	1242.6	50.000	45.273	ng	-9	15	
GC05	I	316110012001	17-MAR-2006 09:32	316062601001	12-FEB-2006	484.52	440.06	50.000	45.412	ng	-9	15	
GC05	H	316110012013	17-MAR-2006 16:20	316062601001	12-FEB-2006	1372.3	1183.3	100.00	86.221	ng	-14	15	
GC05	I	316110012013	17-MAR-2006 16:20	316062601001	12-FEB-2006	484.52	467.64	100.00	96.516	ng	-3	15	
GC05	H	316110012027	17-MAR-2006 23:44	316062601001	12-FEB-2006	1372.3	1198.3	150.00	130.98	ng	-13	15	
GC05	I	316110012027	17-MAR-2006 23:44	316062601001	12-FEB-2006	484.52	467.95	150.00	144.87	ng	-3	15	
GC05	H	316110012038	18-MAR-2006 05:28	316062601001	12-FEB-2006	1372.3	1221.7	50.000	44.511	ng	-11	15	
GC05	I	316110012038	18-MAR-2006 05:28	316062601001	12-FEB-2006	484.52	465.02	50.000	47.988	ng	-4	15	

CONTINUING CALIBRATION SUMMARY FOR 185586 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Ethylbenzene

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC04	B	306108861002	16-MAR-2006 15:10	306105768002	14-MAR-2006	4218.9	4183.9	100.00	99.171	ng	-1	15	
GC04	C	306108861002	16-MAR-2006 15:10	306105768002	14-MAR-2006	1723.9	1886.0	100.00	109.40	ng	9	15	
GC04	B	306108861012	17-MAR-2006 12:25	306105768002	14-MAR-2006	4218.9	3916.8	150.00	139.26	ng	-7	15	
GC04	C	306108861012	17-MAR-2006 12:25	306105768002	14-MAR-2006	1723.9	1973.7	150.00	171.73	ng	14	15	
GC05	H	316110012001	17-MAR-2006 09:32	316062601001	12-FEB-2006	1157.4	1047.5	50.000	45.251	ng	-9	15	
GC05	I	316110012001	17-MAR-2006 09:32	316062601001	12-FEB-2006	436.93	381.57	50.000	43.665	ng	-13	15	
GC05	H	316110012013	17-MAR-2006 16:20	316062601001	12-FEB-2006	1157.4	980.41	100.00	84.708	ng	-15	15	
GC05	I	316110012013	17-MAR-2006 16:20	316062601001	12-FEB-2006	436.93	417.39	100.00	95.528	ng	-4	15	
GC05	H	316110012027	17-MAR-2006 23:44	316062601001	12-FEB-2006	1157.4	1034.5	150.00	134.07	ng	-11	15	
GC05	I	316110012027	17-MAR-2006 23:44	316062601001	12-FEB-2006	436.93	417.31	150.00	143.27	ng	-4	15	
GC05	H	316110012038	18-MAR-2006 05:28	316062601001	12-FEB-2006	1157.4	1018.5	50.000	43.998	ng	-12	15	
GC05	I	316110012038	18-MAR-2006 05:28	316062601001	12-FEB-2006	436.93	407.52	50.000	46.634	ng	-7	15	

CONTINUING CALIBRATION SUMMARY FOR 185586 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: m,p-Xylenes

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC04	B	306108861002	16-MAR-2006 15:10	306105768002	14-MAR-2006	5998.0	5513.1	100.00	91.915	ng	-8	15	
GC04	C	306108861002	16-MAR-2006 15:10	306105768002	14-MAR-2006	2395.3	2356.6	100.00	98.385	ng	-2	15	
GC04	B	306108861012	17-MAR-2006 12:25	306105768002	14-MAR-2006	5998.0	5105.3	150.00	127.67	ng	-15	15	
GC04	C	306108861012	17-MAR-2006 12:25	306105768002	14-MAR-2006	2395.3	2420.6	150.00	151.59	ng	1	15	
GC05	H	316110012001	17-MAR-2006 09:32	316062601001	12-FEB-2006	1447.3	1278.7	50.000	44.176	ng	-12	15	
GC05	I	316110012001	17-MAR-2006 09:32	316062601001	12-FEB-2006	525.15	446.94	50.000	42.554	ng	-15	15	
GC05	H	316110012013	17-MAR-2006 16:20	316062601001	12-FEB-2006	1447.3	1300.7	100.00	89.869	ng	-10	15	
GC05	I	316110012013	17-MAR-2006 16:20	316062601001	12-FEB-2006	525.15	494.51	100.00	94.164	ng	-6	15	
GC05	H	316110012027	17-MAR-2006 23:44	316062601001	12-FEB-2006	1447.3	1286.1	150.00	133.29	ng	-11	15	
GC05	I	316110012027	17-MAR-2006 23:44	316062601001	12-FEB-2006	525.15	484.80	150.00	138.47	ng	-8	15	
GC05	H	316110012038	18-MAR-2006 05:28	316062601001	12-FEB-2006	1447.3	1323.0	50.000	45.707	ng	-9	15	
GC05	I	316110012038	18-MAR-2006 05:28	316062601001	12-FEB-2006	525.15	476.80	50.000	45.397	ng	-9	15	

CONTINUING CALIBRATION SUMMARY FOR 185586 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: o-Xylene

Instid	Ch	Seqnum	Injected	Calnum	Caldate	RF/CF	Avg RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC04	B	306108861002	16-MAR-2006 15:10	306105768002	14-MAR-2006	4665.3	4392.5	100.00	94.154	ng	-6	15	
GC04	C	306108861002	16-MAR-2006 15:10	306105768002	14-MAR-2006	1759.8	1967.5	100.00	111.80	ng	12	15	
GC04	B	306108861012	17-MAR-2006 12:25	306105768002	14-MAR-2006	4665.3	4162.5	150.00	133.83	ng	-11	15	
GC04	C	306108861012	17-MAR-2006 12:25	306105768002	14-MAR-2006	1759.8	2016.7	150.00	171.90	ng	15	15	
GC05	H	316110012001	17-MAR-2006 09:32	316062601001	12-FEB-2006	1177.1	1063.4	50.000	45.170	ng	-10	15	
GC05	I	316110012001	17-MAR-2006 09:32	316062601001	12-FEB-2006	426.20	375.08	50.000	44.003	ng	-12	15	
GC05	H	316110012013	17-MAR-2006 16:20	316062601001	12-FEB-2006	1177.1	1052.4	100.00	89.405	ng	-11	15	
GC05	I	316110012013	17-MAR-2006 16:20	316062601001	12-FEB-2006	426.20	409.85	100.00	96.164	ng	-4	15	
GC05	H	316110012027	17-MAR-2006 23:44	316062601001	12-FEB-2006	1177.1	1074.7	150.00	136.95	ng	-9	15	
GC05	I	316110012027	17-MAR-2006 23:44	316062601001	12-FEB-2006	426.20	407.16	150.00	143.30	ng	-4	15	
GC05	H	316110012038	18-MAR-2006 05:28	316062601001	12-FEB-2006	1177.1	1084.0	50.000	46.045	ng	-8	15	
GC05	I	316110012038	18-MAR-2006 05:28	316062601001	12-FEB-2006	426.20	393.48	50.000	46.161	ng	-8	15	

CONTINUING CALIBRATION SUMMARY FOR 185586 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Trifluorotoluene (FID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC04	A	306108861002	16-MAR-2006 15:10	306105768003	15-MAR-2006	3493.1	3707.4	450.00	477.60	ng	6	15	
GC04	A	306108861003	16-MAR-2006 15:47	306105768003	15-MAR-2006	3493.1	4407.8	450.00	567.84	ng	**26**	15	c+
GC04	A	306108861012	17-MAR-2006 12:25	306105768003	15-MAR-2006	3493.1	3675.2	450.00	473.46	ng	5	15	
GC04	A	306108861026	17-MAR-2006 20:49	306105768003	15-MAR-2006	3493.1	4468.8	450.00	575.69	ng	**28**	15	c+
GC04	A	306108861033	18-MAR-2006 01:01	306105768003	15-MAR-2006	3493.1	4271.0	450.00	550.22	ng	**22**	15	c+
GC05	G	316110012001	17-MAR-2006 09:32	316013420001	09-JAN-2006	1227.7	1335.7	450.00	489.59	ng	9	15	
GC05	G	316110012002	17-MAR-2006 10:17	316013420001	09-JAN-2006	1227.7	1445.8	450.00	529.92	ng	**18**	15	c+
GC05	G	316110012013	17-MAR-2006 16:20	316013420001	09-JAN-2006	1227.7	1379.1	450.00	505.49	ng	12	15	
GC05	G	316110012026	17-MAR-2006 23:13	316013420001	09-JAN-2006	1227.7	1395.6	450.00	511.52	ng	14	15	
GC05	G	316110012038	18-MAR-2006 05:28	316013420001	09-JAN-2006	1227.7	1334.5	450.00	489.14	ng	9	15	

ok

IN-HOUSE
QC Limits
TFT-FID-H_2O:
69-137 % Rec

/ wera 3/28/06

+=high bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 185586 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Bromofluorobenzene (FID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC04	A	306108861002	16-MAR-2006 15:10	306105768003	15-MAR-2006	2318.8	2425.5	450.00	470.71	ng	5	15	
GC04	A	306108861003	16-MAR-2006 15:47	306105768003	15-MAR-2006	2318.8	2529.3	450.00	490.85	ng	9	15	
GC04	A	306108861012	17-MAR-2006 12:25	306105768003	15-MAR-2006	2318.8	2433.3	450.00	472.23	ng	5	15	
GC04	A	306108861026	17-MAR-2006 20:49	306105768003	15-MAR-2006	2318.8	2647.1	450.00	513.72	ng	14	15	
GC04	A	306108861033	18-MAR-2006 01:01	306105768003	15-MAR-2006	2318.8	2337.9	450.00	453.72	ng	1	15	
GC05	G	316110012001	17-MAR-2006 09:32	316013420001	09-JAN-2006	811.23	878.37	450.00	487.24	ng	8	15	
GC05	G	316110012002	17-MAR-2006 10:17	316013420001	09-JAN-2006	811.23	900.13	450.00	499.32	ng	11	15	
GC05	G	316110012013	17-MAR-2006 16:20	316013420001	09-JAN-2006	811.23	888.92	450.00	493.09	ng	10	15	
GC05	G	316110012026	17-MAR-2006 23:13	316013420001	09-JAN-2006	811.23	904.39	450.00	501.68	ng	11	15	
GC05	G	316110012038	18-MAR-2006 05:28	316013420001	09-JAN-2006	811.23	843.60	450.00	467.96	ng	4	15	

CONTINUING CALIBRATION SUMMARY FOR 185586 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Trifluorotoluene (PID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC04	B	306108861002	16-MAR-2006 15:10	306105768003	15-MAR-2006	1273.4	1300.5	450.00	459.57	ng	2	15	
GC04	C	306108861002	16-MAR-2006 15:10	306105768003	15-MAR-2006	485.52	545.56	450.00	505.65	ng	12	15	
GC04	B	306108861012	17-MAR-2006 12:25	306105768003	15-MAR-2006	1273.4	1297.0	450.00	458.33	ng	2	15	
GC04	C	306108861012	17-MAR-2006 12:25	306105768003	15-MAR-2006	485.52	623.06	450.00	577.48	ng	**28**	15	c+
GC05	H	316110012001	17-MAR-2006 09:32	316013420001	09-JAN-2006	461.24	395.93	450.00	386.29	ng	-14	15	
GC05	I	316110012001	17-MAR-2006 09:32	316013420001	09-JAN-2006	145.28	150.91	450.00	467.44	ng	4	15	
GC05	H	316110012013	17-MAR-2006 16:20	316013420001	09-JAN-2006	461.24	390.62	450.00	381.10	ng	-15	15	
GC05	I	316110012013	17-MAR-2006 16:20	316013420001	09-JAN-2006	145.28	157.02	450.00	486.38	ng	8	15	

Ch. B used

Mean 3/28/06

+=high bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 185586 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Bromofluorobenzene (PID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC04	B	306108861002	16-MAR-2006 15:10	306105768003	15-MAR-2006	2773.0	2800.7	450.00	454.49	ng	1	15	
GC04	C	306108861002	16-MAR-2006 15:10	306105768003	15-MAR-2006	1079.2	1260.5	450.00	525.63	ng	**17**	15	c+
GC04	B	306108861012	17-MAR-2006 12:25	306105768003	15-MAR-2006	2773.0	2781.7	450.00	451.41	ng	0	15	
GC04	C	306108861012	17-MAR-2006 12:25	306105768003	15-MAR-2006	1079.2	1366.9	450.00	569.99	ng	**27**	15	c+
GC05	H	316110012001	17-MAR-2006 09:32	316013420001	09-JAN-2006	951.26	853.13	450.00	403.58	ng	-10	15	
GC05	I	316110012001	17-MAR-2006 09:32	316013420001	09-JAN-2006	320.20	328.49	450.00	461.64	ng	3	15	
GC05	H	316110012013	17-MAR-2006 16:20	316013420001	09-JAN-2006	951.26	846.33	450.00	400.36	ng	-11	15	
GC05	I	316110012013	17-MAR-2006 16:20	316013420001	09-JAN-2006	320.20	348.97	450.00	490.42	ng	9	15	

Ch. B used

Non Shot

+=high bias c=CCV

PROJECT GC05 Sequence by BK

Notebook No. BK2051

Continued From Page

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 11-DEC-2005

Sequence: 315497353 Instrument: GC05
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #5 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK uL	VL	pH	Stds Used	>LR
001	345_001	X	ib			11-DEC-2005 09:13	1.0					1	
002	345_002	X	ib			11-DEC-2005 09:44	1.0					1	
003	345_003	ICAL	tvh 1			11-DEC-2005 10:16	1.0					2 1 pass	
004	345_004	ICAL	tvh 2			11-DEC-2005 10:48	1.0					3 1	
005	345_005	ICAL	tvh 3			11-DEC-2005 11:19	1.0					4 1	
006	345_006	ICAL	tvh 4			11-DEC-2005 11:51	1.0					5 1	
007	345_007	ICAL	tvh 5			11-DEC-2005 12:23	1.0					5 1	
008	345_008	X	ib			11-DEC-2005 12:55	1.0					1	
009	345_009	X	tvh			11-DEC-2005 13:26	1.0		5000			6 1 Not used	
010	345_010	ICV	tvh			11-DEC-2005 13:58	1.0		5000			7 1 pass	
011	345_011	X	ib			11-DEC-2005 14:30	1.0					1	
012	345_012	X	carbmark			11-DEC-2005 15:02	1.0					8 9 1	

Stds used: 1=S1895 2=S1367 3=S1368 4=S1369 5=S1370 6=S2152 7=S2241 8=S1645 9=S1646

Analyst: BK Date: 12/13/05

Page 1 of 1

BK 12/13/05

Signed BK Date 12/13/05

Read and Understood By

Signed Dhulma Perez Date 12/13/05

Continued on Page

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316013420 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 09-JAN-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	~~YL~~ CODE ID	pH	Stds Used	>LR
001	009_001	X	ib			09-JAN-2006 07:40	1.0						1	
002	009_002	X	mbtxe		Water	09-JAN-2006 08:11	1.0						2 1 Not used	
003	009_003	X	gas		Water	09-JAN-2006 08:43	1.0						3 1	
004	009_004	X	ib			09-JAN-2006 09:14	1.0						1	
005	009_005	X	ib			09-JAN-2006 11:29	1.0						1	
006	009_006	ICAL	tft/bfb 1			09-JAN-2006 12:00	1.0						4 PASS/USE	
007	009_007	ICAL	tft/bfb 2			09-JAN-2006 12:32	1.0						5	
008	009_008	ICAL	tft/bfb 3			09-JAN-2006 13:04	1.0						6	
009	009_009	ICAL	tft/bfb 4			09-JAN-2006 13:42	1.0						7	
010	009_010	ICAL	tft/bfb 5			09-JAN-2006 14:13	1.0						8	
011	009_011	X	ib			09-JAN-2006 15:31	1.0						1	
012	009_012	CCV/LCS	QC323487	109331	Soil	09-JAN-2006 16:03	1.0			5000			2 1 PASS/USE	
013	009_013	CCV/LCS	QC323488	109331	Soil	09-JAN-2006 16:35	1.0		1	5000			3 1	
014	009_014	BLANK	QC323486	109331	Soil	09-JAN-2006 17:06	1.0	4		5000			1 ≤ 1/2 RL	
015	009_015	MSS	184210-025	109331	Soil	09-JAN-2006 18:44	1.0	1		5000			1	
016	009_016	MS	QC323558	109331	Soil	09-JAN-2006 19:15	1.0		2	5000			3 1 PASS/USE	
017	009_017	MSD	QC323559	109331	Soil	09-JAN-2006 19:47	1.0		2	5000			3 1	
018	009_018	SAMPLE	184210-019	109331	Soil	09-JAN-2006 20:18	1.0			5000			1	
019	009_019	SAMPLE	184210-020	109331	Soil	09-JAN-2006 20:50	1.0			5000			1	
020	009_020	SAMPLE	184210-021	109331	Soil	09-JAN-2006 21:22	1.0			5000			1	
021	009_021	SAMPLE	184210-022	109331	Soil	09-JAN-2006 21:53	1.0			5000			1	
022	009_022	CCV	btxe	109331		09-JAN-2006 22:25	1.0			5000			2 1 PASS/USE	
023	009_023	CCV	btxe	109331		09-JAN-2006 22:56	1.0			5000			2 1	
024	009_024	CCV	tvh	109331		09-JAN-2006 23:28	1.0			5000			3 1	
025	009_025	CCV	tvh	109331		09-JAN-2006 23:59	1.0			5000			3 1	
026	009_026	SAMPLE	184210-023	109331	Soil	10-JAN-2006 00:31	1.0			5000			1	
027	009_027	SAMPLE	184210-024	109331	Soil	10-JAN-2006 01:03	1.0		6	5000			1	
028	009_028	SAMPLE	184210-024	109331	Soil	10-JAN-2006 07:38	1.0			5000			1	
029	009_029	SAMPLE	184210-026	109331	Soil	10-JAN-2006 08:09	1.0	1	2	5000			1	1:BR4FBZ=1175.89
030	009_030	SAMPLE	184210-027	109331	Soil	10-JAN-2006 08:41	1.0			5000			1	

Stds used: 1=S1895 2=S2369 3=S2400 4=S1889 5=S1890 6=S1891 7=S1892 8=S1893

Analyst: [signature] Date: 01/10/06
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Std used in QC EM 128974-M104164

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316013420 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 09-JAN-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	~~YL~~ CODE ID	pH	Stds Used	>LR
031	009_031	CCV	btxe	109331		10-JAN-2006 09:12	1.0			5000			2 1 PASS/USE	
032	009_032	CCV	tvh	109331		10-JAN-2006 09:44	1.0			5000			3 1	

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Stds used: 1=S1895 2=S2369 3=S2400 4=S1889 5=S1890 6=S1891 7=S1892 8=S1893

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316062601 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 12-FEB-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC SPK uL	VL	pH	Stds Used	>LR
001	043_001	X	ib			12-FEB-2006 11:21	1.0				1	
002	043_002	X	mbtxe check			12-FEB-2006 11:52	1.0				2 1 Not used	
003	043_003	X	ib			12-FEB-2006 12:24	1.0				1	
004	043_004	X	ib			12-FEB-2006 14:02	1.0				1	
005	043_005	ICAL	btxe 1			12-FEB-2006 14:34	1.0				3 1 Pass/use	
006	043_006	ICAL	mtbe 1			12-FEB-2006 15:06	1.0				4 1	
007	043_007	ICAL	mbtxe 2			12-FEB-2006 15:38	1.0				4 1	
008	043_008	ICAL	mbtxe 3			12-FEB-2006 16:10	1.0				4 1	
009	043_009	ICAL	mbtxe 4			12-FEB-2006 16:42	1.0				5 1	
010	043_010	ICAL	mbtxe 5			12-FEB-2006 17:13	1.0				5 1	
011	043_011	ICAL	mbtxe 6			12-FEB-2006 17:45	1.0				5 1	
012	043_012	ICAL	mtbe 7			12-FEB-2006 18:17	1.0				6 1	
013	043_013	X	ib			12-FEB-2006 18:49	1.0				1	
014	043_014	X	mbtxe			12-FEB-2006 19:21	1.0				7 1 Not used	
015	043_015	ICV	mbtxe			12-FEB-2006 19:53	1.0	5000			7 1 Pass/use	

Stds used: 1=S2543 2=S2650 3=S2368 4=S2367 5=S2366 6=S1492 7=S2157

Analyst: [signature] Date: 02/13/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 306105768 Instrument: GC04 Gas Chromatograph #4 TVH/BTXE Begun: 14-MAR-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK uL	VL	pH	Stds Used	>LR
001	073_001	X	ib			14-MAR-2006 10:48	1.0					1	
002	073_002	X	Ical			14-MAR-2006 11:24	1.0					2 1	
003	073_003	ICAL	tvh 1			14-MAR-2006 12:00	1.0					2 1 PASS/USE	
004	073_004	ICAL	tvh 2			14-MAR-2006 12:36	1.0					3 1	
005	073_005	ICAL	tvh 3			14-MAR-2006 13:12	1.0					4 1	
006	073_006	ICAL	tvh 4			14-MAR-2006 13:48	1.0					5 1	
007	073_007	ICAL	tvh 5			14-MAR-2006 14:24	1.0					5 1	
008	073_008	X	ib			14-MAR-2006 15:00	1.0					1	
009	073_009	ICV	tvh			14-MAR-2006 15:36	1.0		5000			6 1 PASS/USE	
010	073_010	X	carbmark			14-MAR-2006 16:27	1.0					7 8 1 PASS/USE	
011	073_011	X	ib			14-MAR-2006 17:03	1.0					1	
012	073_012	ICAL	btxe 1			14-MAR-2006 17:39	1.0					9 1 PASS/USE	
013	073_013	ICAL	mtbe 1			14-MAR-2006 18:15	1.0					10 1	
014	073_014	ICAL	mbtxe 2			14-MAR-2006 18:51	1.0					10 1	
015	073_015	ICAL	mbtxe 3			14-MAR-2006 19:27	1.0					10 1	
016	073_016	ICAL	mbtxe 4			14-MAR-2006 20:03	1.0					11 1	
017	073_017	ICAL	mbtxe 5			14-MAR-2006 20:39	1.0					11 1	
018	073_018	ICAL	mbtxe 6			14-MAR-2006 21:15	1.0					11 1	
019	073_019	ICAL	mtbe 7			14-MAR-2006 21:51	1.0					12 1	
020	073_020	X	ib			14-MAR-2006 22:27	1.0					1	
021	073_021	X	mbtxe			14-MAR-2006 23:04	1.0					13 1 Not used	
022	073_022	ICV	mbtxe			14-MAR-2006 23:40	1.0	1	5000			13 1 PASS/USE	
023	073_023	X	ib			15-MAR-2006 00:16	1.0					1	
024	073_024	X	ib			15-MAR-2006 13:19	1.0					1	
025	073_025	ICAL	tft/bfb 1			15-MAR-2006 13:55	1.0					14 PASS/USE	
026	073_026	ICAL	tft/bfb 2			15-MAR-2006 14:53	1.0					15	
027	073_027	ICAL	tft/bfb 3			15-MAR-2006 15:31	1.0					16	
028	073_028	ICAL	tft/bfb 4			15-MAR-2006 16:07	1.0					17	
029	073_029	ICAL	tft/bfb 5			15-MAR-2006 16:47	1.0					18	

Stds used: 1=S2543 2=S2395 3=S2396 4=S2397 5=S2399 6=S2557 7=S1645 8=S1646 9=S2850 10=S2849 11=S2848 12=S2847 13=S2157 14=S2572 15=S2573 16=S2574 17=S2575 18=S2576

Analyst: [signature] Date: 03/16/06

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PROJECT GC04 Sequence Log Book

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 306108861 Instrument: GC04 Gas Chromatograph #4 TVH/BTXE Begun: 16-MAR-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds Used	>LR
001	075_001	X	ib			16-MAR-2006 14:21	1.0						1	
002	075_002	CCV/LCS	QC331857	111392	Water	16-MAR-2006 15:10	1.0			5000			2 1 PASS/USE	
003	075_003	CCV/LCS	QC331858	111392	Water	16-MAR-2006 15:47	1.0		1	5000			3 1	
004	075_004	BLANK	QC331856	111392	Water	16-MAR-2006 16:32	1.0			5000	≠		1 ≤ 1/2 RL	
005	075_005	MSS	185586-015	111392	Water	17-MAR-2006 08:12	1.0			5000	A	1.0	1	
006	075_006	SAMPLE	185586-016	111392	Water	17-MAR-2006 08:48	1.0			5000			1	
007	075_007	SAMPLE	185586-001	111392	Water	17-MAR-2006 09:24	1.0			5000			1	
008	075_008	SAMPLE	185586-002	111392	Water	17-MAR-2006 10:00	1.0			5000			1	
009	075_009	SAMPLE	185586-003	111392	Water	17-MAR-2006 10:36	1.0			5000			1	
010	075_010	MS	QC331859	111392	Water	17-MAR-2006 11:12	1.0		1	5000			3 1 PASS/USE	
011	075_011	MSD	QC331860	111392	Water	17-MAR-2006 11:48	1.0		2	5000			3 1	
012	075_012	CCV	mbtxe	111369		17-MAR-2006 12:25	1.0	1		5000			2 1	
013	075_013	X	mbtxe	111369		17-MAR-2006 13:01	1.0	5		5000			2 1 Not used	
014	075_014	CCV	tvh	111369		17-MAR-2006 13:37	1.0			5000			3 1 PASS/USE	
015	075_015	CCV	tvh	111369		17-MAR-2006 14:13	1.0			5000			3 1	
016	075_016	SAMPLE	185586-008	111392	Water	17-MAR-2006 14:49	1.0			5000	A	1.0	1	
017	075_017	SAMPLE	185586-009	111392	Water	17-MAR-2006 15:25	1.0			5000			1	
018	075_018	SAMPLE	185586-010	111392	Water	17-MAR-2006 16:01	1.0			5000			1	
019	075_019	SAMPLE	185586-011	111392	Water	17-MAR-2006 16:37	1.0			5000			1	
020	075_020	SAMPLE	185586-013	111392	Water	17-MAR-2006 17:13	1.0			5000			1	
021	075_021	SAMPLE	185586-014	111392	Water	17-MAR-2006 17:49	1.0			5000	B		1	
022	075_022	SAMPLE	185586-017	111392	Water	17-MAR-2006 18:25	1.0			5000	A		1	
023	075_023	SAMPLE	185586-018	111392	Water	17-MAR-2006 19:01	1.0			5000			1	
024	075_024	SAMPLE	185586-019	111392	Water	17-MAR-2006 19:37	1.0			5000			1	
025	075_025	SAMPLE	185586-020	111392	Water	17-MAR-2006 20:13	1.0			5000			1	
026	075_026	CCV	tvh	111369		17-MAR-2006 20:49	1.0			5000			3 1 PASS/USE	
027	075_027	CCV	tvh	111369		17-MAR-2006 21:25	1.0			5000			3 1	
028	075_028	SAMPLE	185586-021	111392	Water	17-MAR-2006 22:01	1.0			5000	A	1.0	1	
029	075_029	SAMPLE	185586-022	111392	Water	17-MAR-2006 22:37	1.0			5000			1	
030	075_030	SAMPLE	185586-023	111392	Water	17-MAR-2006 23:13	1.0			5000			1	

Stds used: 1=S2543 2=S2650 3=S2869

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 306108861 Instrument: GC04 Gas Chromatograph #4 TVH/BTXE Begun: 16-MAR-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds Used	>LR
031	075_031	SAMPLE	185586-024	111392	Water	17-MAR-2006 23:49	1.0			5000	A	1.0	1	
032	075_032	SAMPLE	185586-025	111392	Water	18-MAR-2006 00:25	1.0			5000			1	
033	075_033	CCV	tvh	111369		18-MAR-2006 01:01	1.0			5000			3 1 PASS/USE	
034	075_034	CCV	tvh	111369		18-MAR-2006 01:37	1.0			5000			3 1	

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Stds used: 1=S2543 2=S2650 3=S2869

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316110012 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 17-MAR-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	076_001	CCV/LCS	QC331897	111402	Water	17-MAR-2006 09:32	1.0			5000			1 2 PASS	
002	076_002	CCV/LCS	QC331898	111402	Water	17-MAR-2006 10:17	1.0			5000			3 2 ↓	
003	076_003	X	ib			17-MAR-2006 10:49	1.0						2	
004	076_004	SAMPLE	185590-004	111402	Water	17-MAR-2006 11:20	20.0	2		5000	B	1.3	2	
005	076_005	SAMPLE	185590-005	111402	Water	17-MAR-2006 11:52	20.0	2		5000			2	
006	076_006	SAMPLE	185590-006	111402	Water	17-MAR-2006 12:24	10.0	2		5000	↓	↓	2	
007	076_007	SAMPLE	185586-026	111402	Water	17-MAR-2006 12:55	1.0	1		5000	A	1.0	2	
008	076_008	BLANK	QC331896	111402	Water	17-MAR-2006 13:27	1.0	4		5000			2 2 1/2 RL	
009	076_009	X	185590-024	111402	Water	17-MAR-2006 14:06	1.0	4		5000	A	1.0	2 RK	2:EBZ=2279.63
010	076_010	MS	QC331899	111402	Water	17-MAR-2006 14:43	1.0	2		5000			1 2 N M	2:EBZ=2346.87
011	076_011	MSD	QC331900	111402	Water	17-MAR-2006 15:16	1.0	2		5000	↓	↓	1 2 ↓	2:EBZ=2416.54
012	076_012	X	btxe	111402		17-MAR-2006 15:48	1.0	2		5000			1 2 NOT USED	
013	076_013	CCV	btxe	111402		17-MAR-2006 16:20	1.0	1		5000			1 2 PASS	
014	076_014	CCV	tvh	111402		17-MAR-2006 16:51	1.0			5000			3 2	
015	076_015	CCV	tvh	111402		17-MAR-2006 17:23	1.0			5000			3 2 ↓	
016	076_016	X	185590-017	111402	Water	17-MAR-2006 17:55	1.0	5		5000	A	1.3	2 RK	
017	076_017	X	185590-018	111402	Water	17-MAR-2006 18:27	1.0	4	1	5000			2 RK	4:BZ=3341.88
018	076_018	SAMPLE	185590-019	111402	Water	17-MAR-2006 18:59	1.0	1		5000			2	
019	076_019	SAMPLE	185590-021	111402	Water	17-MAR-2006 19:31	1.0	1		5000			2	
020	076_020	SAMPLE	185590-022	111402	Water	17-MAR-2006 20:03	1.0	1		5000			2	
021	076_021	X	185590-023	111402	Water	17-MAR-2006 20:35	1.0	4	1	5000			2 RK	4:BZ=3201.54
022	076_022	MSS	185614-001	111402	Water	17-MAR-2006 21:06	1.0	2		5000			2	
023	076_023	SAMPLE	185614-002	111402	Water	17-MAR-2006 21:38	1.0	1		5000			2	
024	076_024	SAMPLE	185614-003	111402	Water	17-MAR-2006 22:10	1.0	1		5000			2	
025	076_025	X	185614-004	111402	Water	17-MAR-2006 22:41	1.0	1	2	5000	↓	↓	2 RK	1:BZ=15552.2
026	076_026	CCV	btxe	111402		17-MAR-2006 23:13	1.0			5000			1 2 PASS	
027	076_027	CCV	btxe	111402		17-MAR-2006 23:44	1.0			5000			1 2	
028	076_028	CCV	tvh	111402		18-MAR-2006 00:16	1.0			5000			3 2	
029	076_029	CCV	tvh	111402		18-MAR-2006 00:47	1.0			5000			3 2 ↓	
030	076_030	MSS	185590-024	111402	Water	18-MAR-2006 01:18	2.0			5000	A	1.0	2	

Stds used: 1=S2650 2=S2543 3=S2869

Analyst: JJP Date: 3/21/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316110012 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 17-MAR-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
031	076_031	X	185614-005	111402	Water	18-MAR-2006 01:50	1.0		2	5000	A	1.3	2 RK	1:BZ=15272.6
032	076_032	SAMPLE	185614-006	111402	Water	18-MAR-2006 02:21	1.0			5000			2	
033	076_033	X	185614-007	111402	Water	18-MAR-2006 02:52	1.0	4	3	5000			2 RK	4:BZ=5151.88
034	076_034	SAMPLE	185610-001	111402	Water	18-MAR-2006 03:23	100.0			5000			2	
035	076_035	SAMPLE	185610-002	111402	Water	18-MAR-2006 03:54	100.0			5000			2	2:BZME=2414.10
036	076_036	MS	QC331992	111402	Water	18-MAR-2006 04:25	1.0			5000	↓	↓	3 2 PASS	
037	076_037	MSD	QC331993	111402	Water	18-MAR-2006 04:57	1.0			5000	A	1.3	3 2	
038	076_038	CCV	btxe	111402		18-MAR-2006 05:28	1.0			5000			1 2	
039	076_039	CCV	btxe	111402		18-MAR-2006 05:59	1.0			5000			1 2	
040	076_040	CCV	tvh	111402		18-MAR-2006 06:30	1.0			5000			3 2	
041	076_041	CCV	tvh	111402		18-MAR-2006 07:01	1.0			5000			3 2 ↓	

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Stds used: 1=S2650 2=S2543 3=S2869

Analyst: JJP Date: 3/21/06

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REPORTING SUMMARY FOR 185586 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185586-001	Gasoline C7-C12	GC04	A	03/17/06 09:24
185586-001	Trifluorotoluene (FID)	GC04	A	03/17/06 09:24
185586-001	Bromofluorobenzene (FID)	GC04	A	03/17/06 09:24
185586-002	Gasoline C7-C12	GC04	A	03/17/06 10:00
185586-002	Trifluorotoluene (FID)	GC04	A	03/17/06 10:00
185586-002	Bromofluorobenzene (FID)	GC04	A	03/17/06 10:00
185586-003	Gasoline C7-C12	GC04	A	03/17/06 10:36
185586-003	Trifluorotoluene (FID)	GC04	A	03/17/06 10:36
185586-003	Bromofluorobenzene (FID)	GC04	A	03/17/06 10:36
185586-008	Gasoline C7-C12	GC04	A	03/17/06 14:49
185586-008	Trifluorotoluene (FID)	GC04	A	03/17/06 14:49
185586-008	Bromofluorobenzene (FID)	GC04	A	03/17/06 14:49
185586-009	Gasoline C7-C12	GC04	A	03/17/06 15:25
185586-009	Trifluorotoluene (FID)	GC04	A	03/17/06 15:25
185586-009	Bromofluorobenzene (FID)	GC04	A	03/17/06 15:25
185586-010	Gasoline C7-C12	GC04	A	03/17/06 16:01
185586-010	Trifluorotoluene (FID)	GC04	A	03/17/06 16:01
185586-010	Bromofluorobenzene (FID)	GC04	A	03/17/06 16:01
185586-011	Gasoline C7-C12	GC04	A	03/17/06 16:37
185586-011	Trifluorotoluene (FID)	GC04	A	03/17/06 16:37
185586-011	Bromofluorobenzene (FID)	GC04	A	03/17/06 16:37
185586-013	Gasoline C7-C12	GC04	A	03/17/06 17:13
185586-013	Trifluorotoluene (FID)	GC04	A	03/17/06 17:13
185586-013	Bromofluorobenzene (FID)	GC04	A	03/17/06 17:13
185586-014	Gasoline C7-C12	GC04	A	03/17/06 17:49
185586-014	Trifluorotoluene (FID)	GC04	A	03/17/06 17:49
185586-014	Bromofluorobenzene (FID)	GC04	A	03/17/06 17:49
185586-015	Gasoline C7-C12	GC04	A	03/17/06 08:12
185586-015	MTBE	GC04	B	03/17/06 08:12
185586-015	Benzene	GC04	B	03/17/06 08:12
185586-015	Toluene	GC04	B	03/17/06 08:12
185586-015	Ethylbenzene	GC04	B	03/17/06 08:12
185586-015	Trifluorotoluene (FID)	GC04	A	03/17/06 08:12
185586-015	Bromofluorobenzene (FID)	GC04	A	03/17/06 08:12
185586-015	Trifluorotoluene (PID)	GC04	B	03/17/06 08:12
185586-015	Bromofluorobenzene (PID)	GC04	B	03/17/06 08:12
185586-015	Xylene (total)	GC04	B	03/17/06 08:12
185586-016	Gasoline C7-C12	GC04	A	03/17/06 08:48
185586-016	MTBE	GC04	B	03/17/06 08:48
185586-016	Benzene	GC04	B	03/17/06 08:48
185586-016	Toluene	GC04	B	03/17/06 08:48
185586-016	Ethylbenzene	GC04	B	03/17/06 08:48
185586-016	Trifluorotoluene (FID)	GC04	A	03/17/06 08:48
185586-016	Bromofluorobenzene (FID)	GC04	A	03/17/06 08:48

REPORTING SUMMARY FOR 185586 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185586-016	Trifluorotoluene (PID)	GC04	B	03/17/06 08:48
185586-016	Bromofluorobenzene (PID)	GC04	B	03/17/06 08:48
185586-016	Xylene (total)	GC04	B	03/17/06 08:48
185586-017	Gasoline C7-C12	GC04	A	03/17/06 18:25
185586-017	Trifluorotoluene (FID)	GC04	A	03/17/06 18:25
185586-017	Bromofluorobenzene (FID)	GC04	A	03/17/06 18:25
185586-018	Gasoline C7-C12	GC04	A	03/17/06 19:01
185586-018	Trifluorotoluene (FID)	GC04	A	03/17/06 19:01
185586-018	Bromofluorobenzene (FID)	GC04	A	03/17/06 19:01
185586-019	Gasoline C7-C12	GC04	A	03/17/06 19:37
185586-019	Trifluorotoluene (FID)	GC04	A	03/17/06 19:37
185586-019	Bromofluorobenzene (FID)	GC04	A	03/17/06 19:37
185586-020	Gasoline C7-C12	GC04	A	03/17/06 20:13
185586-020	Trifluorotoluene (FID)	GC04	A	03/17/06 20:13
185586-020	Bromofluorobenzene (FID)	GC04	A	03/17/06 20:13
185586-021	Gasoline C7-C12	GC04	A	03/17/06 22:01
185586-021	Trifluorotoluene (FID)	GC04	A	03/17/06 22:01
185586-021	Bromofluorobenzene (FID)	GC04	A	03/17/06 22:01
185586-022	Gasoline C7-C12	GC04	A	03/17/06 22:37
185586-022	Trifluorotoluene (FID)	GC04	A	03/17/06 22:37
185586-022	Bromofluorobenzene (FID)	GC04	A	03/17/06 22:37
185586-023	Gasoline C7-C12	GC04	A	03/17/06 23:13
185586-023	Trifluorotoluene (FID)	GC04	A	03/17/06 23:13
185586-023	Bromofluorobenzene (FID)	GC04	A	03/17/06 23:13
185586-024	Gasoline C7-C12	GC04	A	03/17/06 23:49
185586-024	Trifluorotoluene (FID)	GC04	A	03/17/06 23:49
185586-024	Bromofluorobenzene (FID)	GC04	A	03/17/06 23:49
185586-025	Gasoline C7-C12	GC04	A	03/18/06 00:25
185586-025	Trifluorotoluene (FID)	GC04	A	03/18/06 00:25
185586-025	Bromofluorobenzene (FID)	GC04	A	03/18/06 00:25
185586-026	Gasoline C7-C12	GC05	G	03/17/06 12:55
185586-026	Trifluorotoluene (FID)	GC05	G	03/17/06 12:55
185586-026	Bromofluorobenzene (FID)	GC05	G	03/17/06 12:55
QC331856	Gasoline C7-C12	GC04	A	03/16/06 16:32
QC331856	MTBE	GC04	B	03/16/06 16:32
QC331856	Benzene	GC04	B	03/16/06 16:32
QC331856	Toluene	GC04	B	03/16/06 16:32
QC331856	Ethylbenzene	GC04	B	03/16/06 16:32
QC331856	Trifluorotoluene (FID)	GC04	A	03/16/06 16:32
QC331856	Bromofluorobenzene (FID)	GC04	A	03/16/06 16:32
QC331856	Trifluorotoluene (PID)	GC04	B	03/16/06 16:32
QC331856	Bromofluorobenzene (PID)	GC04	B	03/16/06 16:32
QC331856	Xylene (total)	GC04	B	03/16/06 16:32

REPORTING SUMMARY FOR 185586 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC331857	MTBE	GC04	B	03/16/06 15:10
QC331857	Benzene	GC04	B	03/16/06 15:10
QC331857	Toluene	GC04	B	03/16/06 15:10
QC331857	Ethylbenzene	GC04	B	03/16/06 15:10
QC331857	Trifluorotoluene (PID)	GC04	B	03/16/06 15:10
QC331857	Bromofluorobenzene (PID)	GC04	B	03/16/06 15:10
QC331858	Gasoline C7-C12	GC04	A	03/16/06 15:47
QC331858	Trifluorotoluene (FID)	GC04	A	03/16/06 15:47
QC331858	Bromofluorobenzene (FID)	GC04	A	03/16/06 15:47
QC331859	Gasoline C7-C12	GC04	A	03/17/06 11:12
QC331859	Trifluorotoluene (FID)	GC04	A	03/17/06 11:12
QC331859	Bromofluorobenzene (FID)	GC04	A	03/17/06 11:12
QC331860	Gasoline C7-C12	GC04	A	03/17/06 11:48
QC331860	Trifluorotoluene (FID)	GC04	A	03/17/06 11:48
QC331860	Bromofluorobenzene (FID)	GC04	A	03/17/06 11:48
QC331896	Gasoline C7-C12	GC05	G	03/17/06 13:27
QC331896	Trifluorotoluene (FID)	GC05	G	03/17/06 13:27
QC331896	Bromofluorobenzene (FID)	GC05	G	03/17/06 13:27
QC331896	Trifluorotoluene (PID)	GC05	I	03/17/06 13:27
QC331896	Bromofluorobenzene (PID)	GC05	I	03/17/06 13:27
QC331898	Gasoline C7-C12	GC05	G	03/17/06 10:17
QC331898	Trifluorotoluene (FID)	GC05	G	03/17/06 10:17
QC331898	Bromofluorobenzene (FID)	GC05	G	03/17/06 10:17
QC331992	Gasoline C7-C12	GC05	G	03/18/06 04:25
QC331992	Trifluorotoluene (FID)	GC05	G	03/18/06 04:25
QC331992	Bromofluorobenzene (FID)	GC05	G	03/18/06 04:25
QC331993	Gasoline C7-C12	GC05	G	03/18/06 04:57
QC331993	Trifluorotoluene (FID)	GC05	G	03/18/06 04:57
QC331993	Bromofluorobenzene (FID)	GC05	G	03/18/06 04:57

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111392
Date Started: 16-MAR-2006
Batched by : Micaela M. Perpetuo

Analysis : N/A
Bgroup : TVH
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185586-001			Treadwell & Rollo	Water	TVH	28-MAR-2006
185586-002			Treadwell & Rollo	Water	TVH	28-MAR-2006
185586-003			Treadwell & Rollo	Water	TVH	28-MAR-2006
185586-008			Treadwell & Rollo	Water	TVH	28-MAR-2006
185586-009			Treadwell & Rollo	Water	TVH	28-MAR-2006
185586-010			Treadwell & Rollo	Water	TVH	28-MAR-2006
185586-011			Treadwell & Rollo	Water	TVH	28-MAR-2006
185586-013			Treadwell & Rollo	Water	TVH	28-MAR-2006
185586-014			Treadwell & Rollo	Water	TVH	28-MAR-2006
185586-015			Treadwell & Rollo	Water	MBTXE, TVH	28-MAR-2006
185586-016			Treadwell & Rollo	Water	MBTXE, TVH	28-MAR-2006
185586-017			Treadwell & Rollo	Water	TVH	28-MAR-2006
185586-018			Treadwell & Rollo	Water	TVH	28-MAR-2006
185586-019			Treadwell & Rollo	Water	TVH	28-MAR-2006
185586-020			Treadwell & Rollo	Water	TVH	28-MAR-2006
185586-021			Treadwell & Rollo	Water	TVH	28-MAR-2006
185586-022			Treadwell & Rollo	Water	TVH	28-MAR-2006
185586-023			Treadwell & Rollo	Water	TVH	28-MAR-2006
185586-024			Treadwell & Rollo	Water	TVH	28-MAR-2006
185586-025			Treadwell & Rollo	Water	TVH	28-MAR-2006
QC331856	BLANK			Water		
QC331857	LCS			Water		
QC331858	LCS			Water		
QC331859	MS	of 185586-015		Water		
QC331860	MSD	of 185586-015		Water		

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Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111402
Date Started: 17-MAR-2006
Batched by : Micaela M. Perpetuo

Analysis : N/A
Bgroup : TVH
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185586-026			Treadwell & Rollo	Water	TVH	28-MAR-2006
185590-004			Arcadis G&M	Water	BTXE	28-MAR-2006
185590-005			Arcadis G&M	Water	BTXE	28-MAR-2006
185590-006			Arcadis G&M	Water	BTXE	28-MAR-2006
185590-017			Arcadis G&M	Water	BTXE	28-MAR-2006
185590-018			Arcadis G&M	Water	BTXE	28-MAR-2006
185590-019			Arcadis G&M	Water	BTXE	28-MAR-2006
185590-021			Arcadis G&M	Water	BTXE	28-MAR-2006
185590-022			Arcadis G&M	Water	BTXE	28-MAR-2006
185590-023			Arcadis G&M	Water	BTXE	28-MAR-2006
185590-024			Arcadis G&M	Water	BTXE	28-MAR-2006
185610-001			Mactec, Inc.	Water	TVH	24-MAR-2006
185610-002			Mactec, Inc.	Water	TVH	24-MAR-2006
185614-001			Mactec, Inc.	Water	BTXE, TVH	29-MAR-2006
185614-002			Mactec, Inc.	Water	BTXE, TVH	29-MAR-2006
185614-003			Mactec, Inc.	Water	BTXE, TVH	29-MAR-2006
185614-004			Mactec, Inc.	Water	BTXE, TVH	29-MAR-2006
185614-005			Mactec, Inc.	Water	BTXE, TVH	29-MAR-2006
185614-006			Mactec, Inc.	Water	BTXE, TVH	29-MAR-2006
185614-007			Mactec, Inc.	Water	BTXE, TVH	29-MAR-2006
QC331896	BLANK			Water		
QC331897	LCS			Water		
QC331898	LCS			Water		
QC331899	MS	of 185590-024	> BTXE	Water		
QC331900	MSD	of 185590-024		Water		
QC331992	MS	of 185614-001	> TVH	Water		
QC331993	MSD	of 185614-001		Water		

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Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water
As of 04/18/06

Analyte	Units	GC19 X	GC04 A	GC04 J	GC05 G	GC07 A
Gasoline C6-C10	ug/L	21	6.7	6.2	4.8	10
Gasoline C6-C12	ug/L	21	5.5	6.8	4.5	14
Gasoline C7-C12	ug/L	27	4.8	7.2	4.2	15
JP-4 C7-C12	ug/L	4.6		12	9.9	19
Gasoline C6-C8	ug/L					7.0
Gasoline C8-C10	ug/L					12
Trifluorotoluene (FID)	ug/L		3.9			9.8
Bromofluorobenzene (FID)	ug/L		5.2			7.5

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8021B Water
As of 04/18/06

Analyte	Units	GC19 Y	GC19 Z	GC04 K	GC04 L	GC05 H	GC05 I	GC07 B	GC07 C
MTBE	ug/L	0.49	0.18	0.45	0.83	0.30	0.62	0.35	0.23
Benzene	ug/L	0.073	0.033	0.094	0.16	0.034	0.057	0.23	0.035
Toluene	ug/L	0.13	0.025	0.14	0.11	0.048	0.15	0.069	0.024
Ethylbenzene	ug/L	0.14	0.024	0.038	0.12	0.036	0.17	0.084	0.056
m,p-Xylenes	ug/L	0.13	0.039	0.10	0.21	0.030	0.17	0.090	0.027
o-Xylene	ug/L	0.15	0.015	0.12	0.10	0.083	0.19	0.13	0.040

TOTAL EXTRACTABLE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/15/06
Units:	ug/L	Received:	03/16/06
Diln Fac:	1.000	Prepared:	03/25/06

Field ID:	600GW102	Batch#:	111685
Type:	SAMPLE	Analyzed:	03/28/06
Lab ID:	185586-001	Cleanup Method:	EPA 3630

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	98	65-135

Field ID:	600GW103	Batch#:	111685
Type:	SAMPLE	Analyzed:	03/28/06
Lab ID:	185586-002	Cleanup Method:	EPA 3630

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	100	65-135

Field ID:	600GW104	Batch#:	111685
Type:	SAMPLE	Analyzed:	03/28/06
Lab ID:	185586-003	Cleanup Method:	EPA 3630

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	97	65-135

Field ID:	937GW15	Batch#:	111685
Type:	SAMPLE	Analyzed:	03/27/06
Lab ID:	185586-008	Cleanup Method:	EPA 3630

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	107	65-135

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/15/06
Units:	ug/L	Received:	03/16/06
Diln Fac:	1.000	Prepared:	03/25/06

Field ID:	DAEGW07	Batch#:	111685
Type:	SAMPLE	Analyzed:	03/27/06
Lab ID:	185586-009	Cleanup Method:	EPA 3630

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	111	65-135

Field ID:	BB3PZ102	Batch#:	111685
Type:	SAMPLE	Analyzed:	03/27/06
Lab ID:	185586-010	Cleanup Method:	EPA 3630

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	114	65-135

Field ID:	BB3SW102	Batch#:	111685
Type:	SAMPLE	Analyzed:	03/27/06
Lab ID:	185586-011	Cleanup Method:	EPA 3630

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	127	65-135

Field ID:	BB3SW100	Batch#:	111685
Type:	SAMPLE	Analyzed:	03/27/06
Lab ID:	185586-013	Cleanup Method:	EPA 3630

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	98	65-135

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/15/06
Units:	ug/L	Received:	03/16/06
Diln Fac:	1.000	Prepared:	03/25/06

Field ID:	BB3SW101	Batch#:	111685
Type:	SAMPLE	Analyzed:	03/27/06
Lab ID:	185586-014	Cleanup Method:	EPA 3630

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	94	65-135

Field ID:	1065PZ7A	Batch#:	111686
Type:	SAMPLE	Analyzed:	03/27/06
Lab ID:	185586-015	Cleanup Method:	EPA 3630

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	86	65-135

Field ID:	1065PZ7B	Batch#:	111686
Type:	SAMPLE	Analyzed:	03/27/06
Lab ID:	185586-016	Cleanup Method:	EPA 3630

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	92	65-135

Field ID:	231GW09	Batch#:	111686
Type:	SAMPLE	Analyzed:	03/27/06
Lab ID:	185586-017	Cleanup Method:	EPA 3630

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	92	65-135

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/15/06
Units:	ug/L	Received:	03/16/06
Diln Fac:	1.000	Prepared:	03/25/06

Field ID:	231GW11	Batch#:	111686
Type:	SAMPLE	Analyzed:	03/27/06
Lab ID:	185586-018	Cleanup Method:	EPA 3630

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	103	65-135

Field ID:	231GW23	Batch#:	111686
Type:	SAMPLE	Analyzed:	03/27/06
Lab ID:	185586-019	Cleanup Method:	EPA 3630

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	95	65-135

Field ID:	231GW25	Batch#:	111686
Type:	SAMPLE	Analyzed:	03/27/06
Lab ID:	185586-020	Cleanup Method:	EPA 3630

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	78	65-135

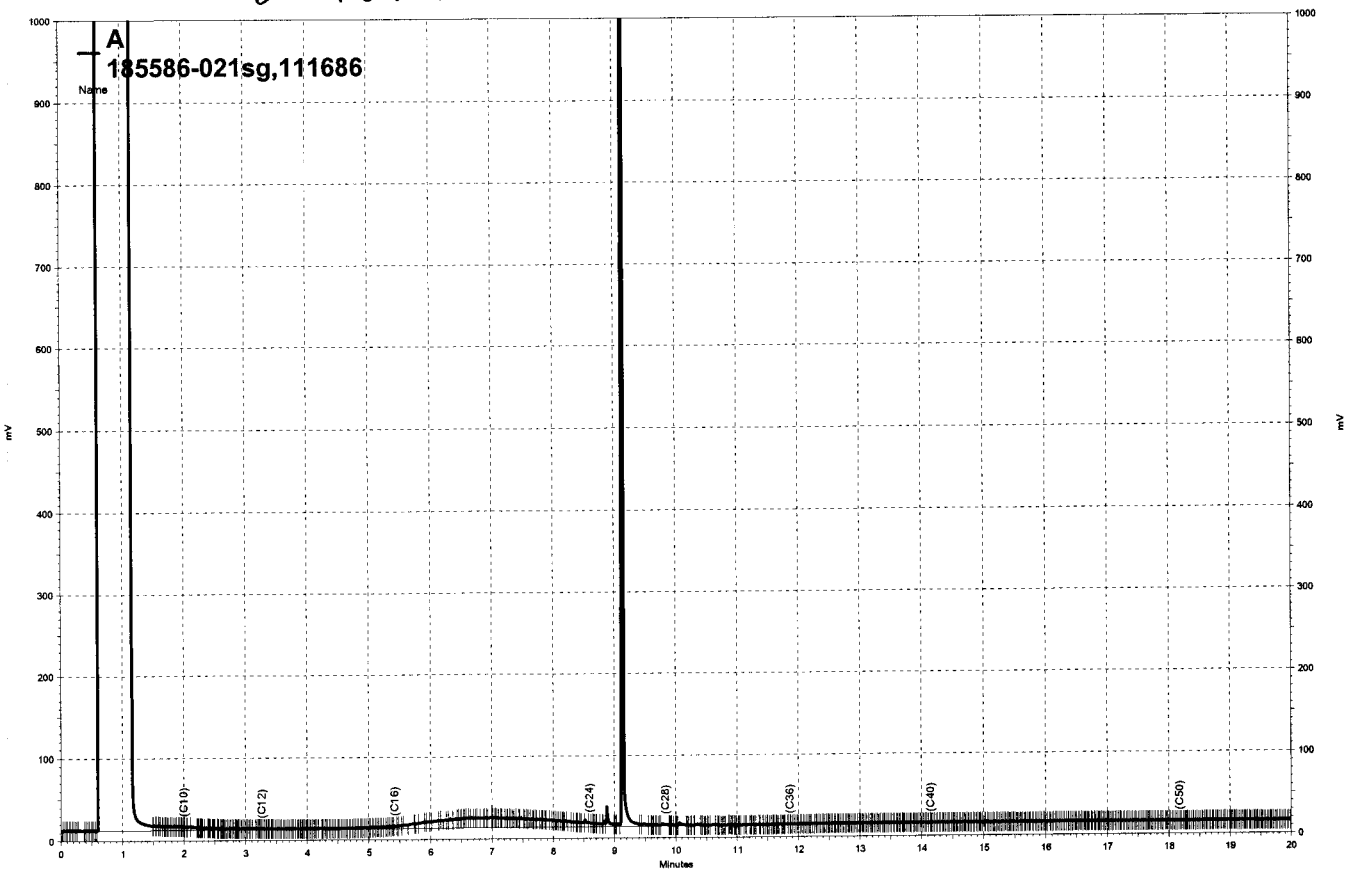
Field ID:	231GW28	Batch#:	111686
Type:	SAMPLE	Analyzed:	03/27/06
Lab ID:	185586-021	Cleanup Method:	EPA 3630

Analyte	Result	RL
Diesel C12-C24	160 Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	79	65-135

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

231GW28



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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/15/06
Units:	ug/L	Received:	03/16/06
Diln Fac:	1.000	Prepared:	03/25/06

Field ID:	231GW27	Batch#:	111686
Type:	SAMPLE	Analyzed:	03/27/06
Lab ID:	185586-022	Cleanup Method:	EPA 3630

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	81	65-135

Field ID:	231GW20	Batch#:	111686
Type:	SAMPLE	Analyzed:	03/27/06
Lab ID:	185586-023	Cleanup Method:	EPA 3630

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	75	65-135

Field ID:	231GW18	Batch#:	111686
Type:	SAMPLE	Analyzed:	03/27/06
Lab ID:	185586-024	Cleanup Method:	EPA 3630

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	77	65-135

Field ID:	231GW17	Batch#:	111686
Type:	SAMPLE	Analyzed:	03/27/06
Lab ID:	185586-025	Cleanup Method:	EPA 3630

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	83	65-135

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/15/06
Units:	ug/L	Received:	03/16/06
Diln Fac:	1.000	Prepared:	03/25/06

Field ID:	231GW06	Batch#:	111686
Type:	SAMPLE	Analyzed:	03/27/06
Lab ID:	185586-026	Cleanup Method:	EPA 3630

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	71	65-135

Type:	BLANK	Analyzed:	03/27/06
Lab ID:	QC333047	Cleanup Method:	EPA 3630
Batch#:	111685		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	104	65-135

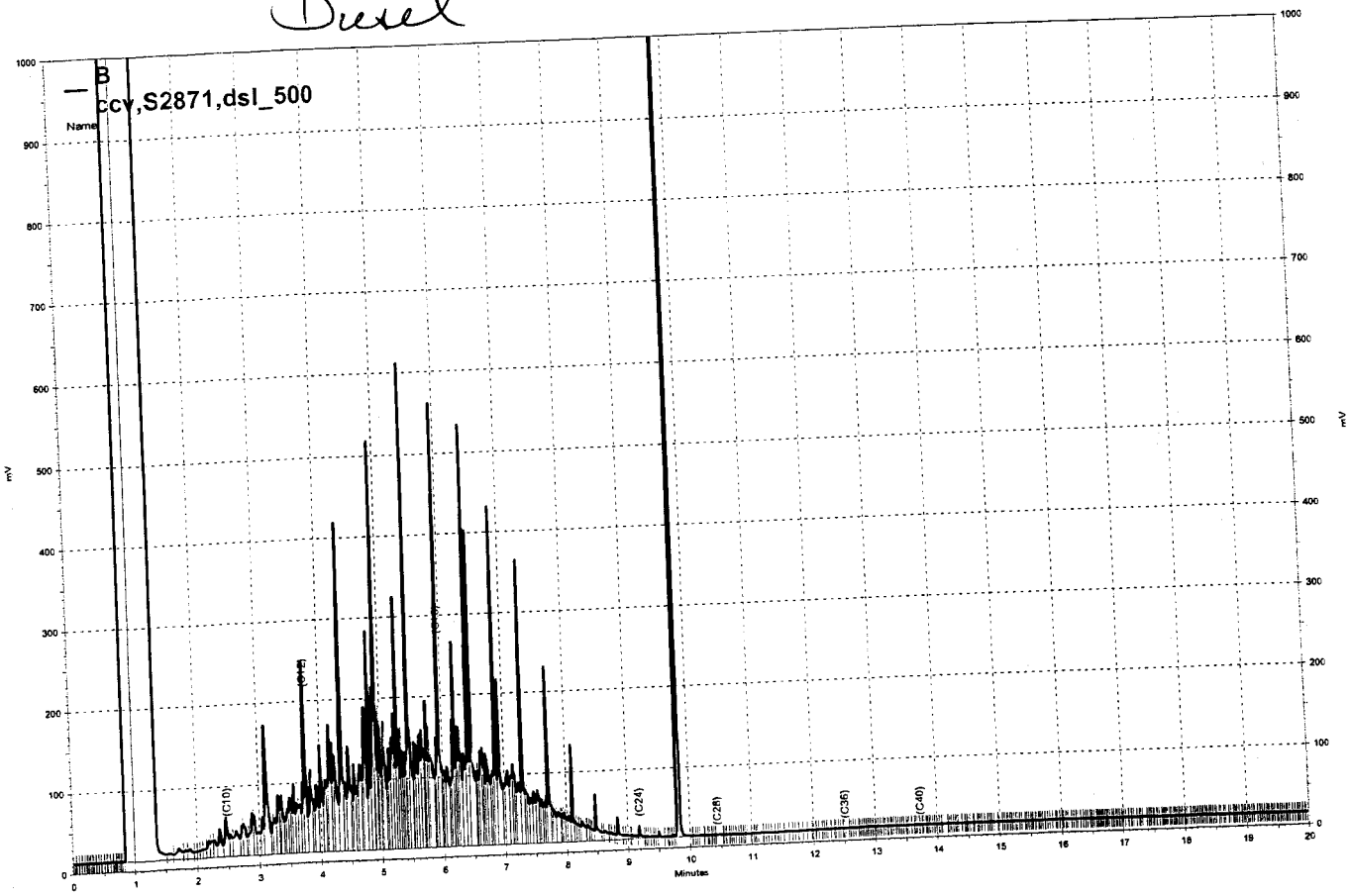
Type:	BLANK	Analyzed:	03/27/06
Lab ID:	QC333050	Cleanup Method:	EPA 3630
Batch#:	111686		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	92	65-135

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Diesel



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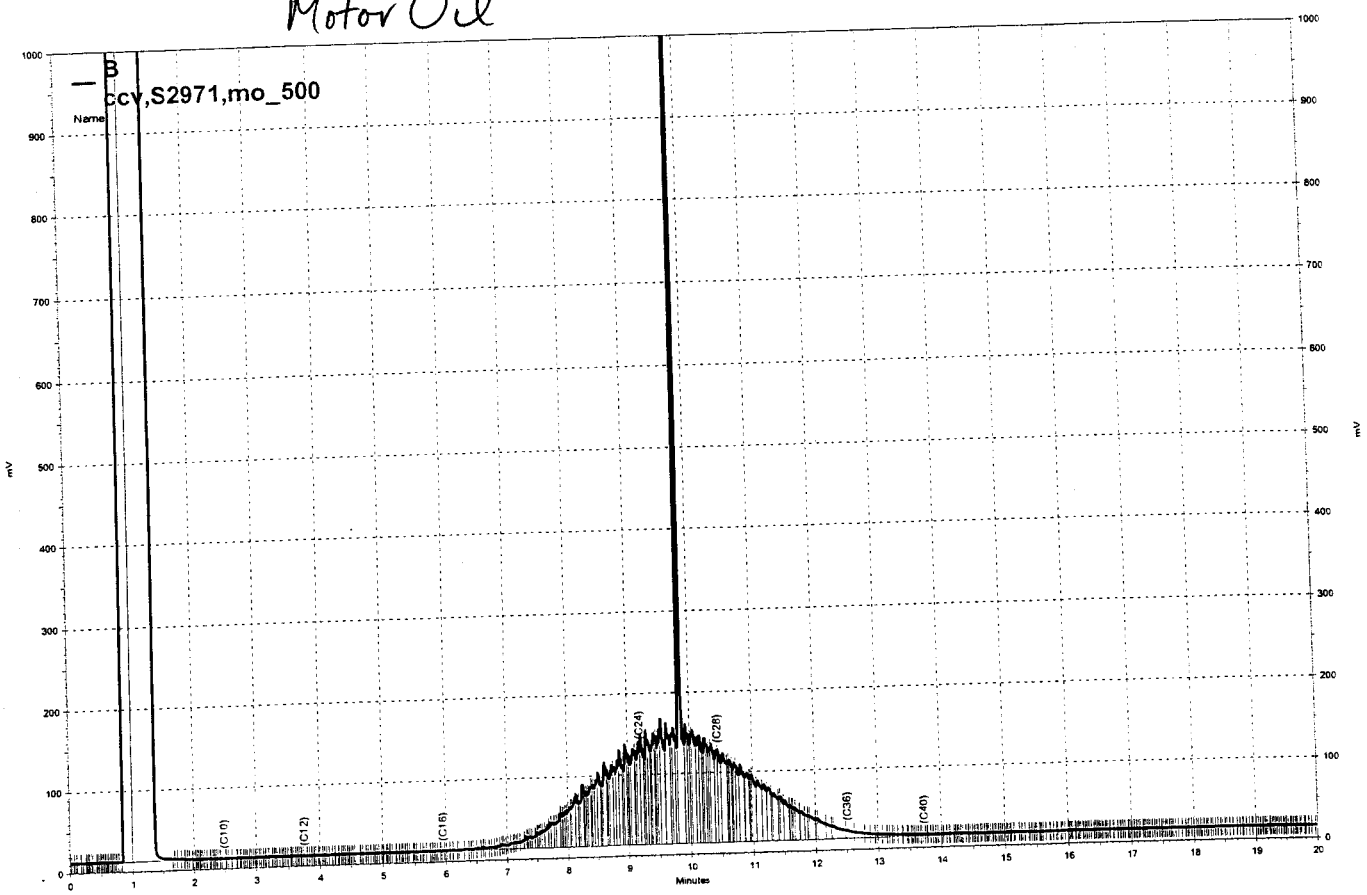
Motor Oil



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Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC333051	Batch#:	111686
Matrix:	Water	Prepared:	03/25/06
Units:	ug/L	Analyzed:	03/27/06

Cleanup Method: EPA 3630

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	2,500	2,002	80	65-135

Surrogate	%REC	Limits
Hexacosane	87	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	111685
Units:	ug/L	Prepared:	03/25/06
Diln Fac:	1.000	Analyzed:	03/27/06

Type: BS Cleanup Method: EPA 3630
Lab ID: QC333048

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	2,500	2,574	103	65-135

Surrogate	%REC	Limits
Hexacosane	101	65-135

Type: BSD Cleanup Method: EPA 3630
Lab ID: QC333049

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,420	97	65-135	6	35

Surrogate	%REC	Limits
Hexacosane	96	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1065PZ7A	Batch#:	111686
MSS Lab ID:	185586-015	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Prepared:	03/25/06
Diln Fac:	1.000	Analyzed:	03/27/06

Type: MS Cleanup Method: EPA 3630
Lab ID: QC333052

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	<20.34	2,500	2,223	89	65-135

Surrogate	%REC	Limits
Hexacosane	102	65-135

Type: MSD Cleanup Method: EPA 3630
Lab ID: QC333053

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,376	95	65-135	7	35

Surrogate	%REC	Limits
Hexacosane	106	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185586 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 115446255002
Units : mg/L

Name : DIESEL
Date : 05-NOV-2005 23:53
X Axis : R

Reviewer: RH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	309a011	115446255011	dsl_10	05-NOV-2005 23:53	S1732
L2	309a013	115446255013	dsl_250	06-NOV-2005 00:49	S1734
L3	309a014	115446255014	dsl_500	06-NOV-2005 01:17	S1735
L4	309a015	115446255015	dsl_1000	06-NOV-2005 01:45	S1736
L5	309a016	115446255016	dsl_2500	06-NOV-2005 02:12	S1737
L6	309a017	115446255017	dsl_5000	06-NOV-2005 02:40	S1731
L7	309a039	115446255039	dsl_100	06-NOV-2005 22:23	S1733

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	66564	67471	67989	68804	69120	69411	70464	AVRG		1.46E-5		68546	2	0.995	20	

88

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

115446255002

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185586 GCSV Water
EPA 8015B

Inst : GC11A
Calnum : 115446255002

Name : DIESEL
Cal Date: 05-NOV-2005

ICV 115446255040 (309a040 06-NOV-2005) stds: S1178

Analyte	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	500.0	498.6	mg/L	0	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185586 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 116049801004
Units : mg/L

Date : 04-FEB-2006 00:18
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	034a023	116049801023	mo_50	04-FEB-2006 00:18	S2118
L2	034a024	116049801024	mo_250	04-FEB-2006 00:46	S2119
L3	034a025	116049801025	mo_500	04-FEB-2006 01:14	S2120
L4	034a026	116049801026	mo_1000	04-FEB-2006 01:42	S2121
L5	034a027	116049801027	mo_2500	04-FEB-2006 02:10	S2122
L6	034a028	116049801028	mo_5000	04-FEB-2006 02:39	S2117

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	40103	42997	43448	44594	44247	45696	AVRG		2.30E-5		43514	4	0.995	20	

90

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

116049801004

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185586 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 115446255001
Units : mg/L

Name : Hexacosane
Date : 05-NOV-2005 21:35
X Axis : R

Reviewer: RH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	309a006	115446255006	hex_5	05-NOV-2005 21:35	S1469
L2	309a007	115446255007	hex_10	05-NOV-2005 22:02	S1470
L3	309a008	115446255008	hex_25	05-NOV-2005 22:30	S1471
L4	309a009	115446255009	hex_50	05-NOV-2005 22:58	S1472
L5	309a010	115446255010	hex_75	05-NOV-2005 23:25	S1473

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	78300	78621	78154	81971	77951	AVRG		1.27E-5		78999	2	0.995	20	

91

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185586 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166117087001
Units : mg/L

Date : 22-MAR-2006 12:39
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	081b006	166117087006	dsl_10	22-MAR-2006 12:39	S2961
L2	081b007	166117087007	dsl_100	22-MAR-2006 13:07	S2938
L3	081b008	166117087008	dsl_250	22-MAR-2006 13:34	S2939
L4	081b009	166117087009	dsl_500	22-MAR-2006 14:02	S2940
L5	081b010	166117087010	dsl_1000	22-MAR-2006 14:30	S2941
L6	081b011	166117087011	dsl_2500	22-MAR-2006 14:57	S2942
L7	081b012	166117087012	dsl_5000	22-MAR-2006 15:25	S2936

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	60107	59785	55253	54313	53973	54874	53381	AVRG		1.79E-5		55955	5	0.995	20	

92

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

166117087001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185586 GCSV Water
EPA 8015B

Inst : GC15B
Calnum : 166117087001 Cal Date: 22-MAR-2006

ICV 166117087014 (081b014 22-MAR-2006) stds: S2708

Analyte	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	500.0	480.4	mg/L	-4	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185586 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166115824002
Units : mg/L

Date : 21-MAR-2006 14:52
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	080b006	166115824006	mo_50	21-MAR-2006 14:52	S2118
L2	080b007	166115824007	mo_250	21-MAR-2006 15:20	S2119
L3	080b008	166115824008	mo_500	21-MAR-2006 15:49	S2120
L4	080b009	166115824009	mo_1000	21-MAR-2006 16:17	S2121
L5	080b010	166115824010	mo_2500	21-MAR-2006 16:46	S2122
L6	080b011	166115824011	mo_5000	21-MAR-2006 17:15	S2117

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	35689	35718	36071	34029	27094	20672	AVRG		3.17E-5		31546	20	0.995	20	

94

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

166115824002

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185586 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166114247001
Units : mg/L

Date : 20-MAR-2006 14:52
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	079b007	166114247007	hex_5	20-MAR-2006 14:52	S2694
L2	079b008	166114247008	hex_10	20-MAR-2006 15:20	S2695
L3	079b009	166114247009	hex_25	20-MAR-2006 15:49	S2696
L4	079b010	166114247010	hex_50	20-MAR-2006 16:17	S2697
L5	079b011	166114247011	hex_75	20-MAR-2006 16:45	S2698

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	64028	62636	61750	60993	60763	AVRG		1.61E-5		62034	2	0.995	20	

95

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

166114247001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185586 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176085452001
Units : mg/L

Date : 01-MAR-2006 07:43
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	059a013	176085452013	dsl_50	01-MAR-2006 07:43	S1732
L2	059a014	176085452014	dsl_100	01-MAR-2006 08:10	S1733
L3	059a015	176085452015	dsl_250	01-MAR-2006 08:37	S1734
L4	059a016	176085452016	dsl_500	01-MAR-2006 09:04	S1735
L5	059a017	176085452017	dsl_1000	01-MAR-2006 09:32	S1736
L6	059a018	176085452018	dsl_2500	01-MAR-2006 10:00	S1737
L7	059a019	176085452019	dsl_5000	01-MAR-2006 10:27	S1731

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	55630	52210	52572	55087	56497	58583	60304	AVRG		1.79E-5		55841	5	0.995	20	

96

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185586 GCSV Water
EPA 8015B

Inst : GC17A
Calnum : 176085452001 Cal Date: 01-MAR-2006

ICV 176085452021 (059a021 01-MAR-2006) stds: S2708

Analyte	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	500.0	454.9	mg/L	-9	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185586 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176093018001
Units : mg/L

Date : 05-MAR-2006 18:11
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	064a007	176093018007	mo_50	05-MAR-2006 18:11	S2118
L2	064a008	176093018008	mo_250	05-MAR-2006 18:38	S2119
L3	064a009	176093018009	mo_500	05-MAR-2006 19:05	S2120
L4	064a010	176093018010	mo_1000	05-MAR-2006 19:32	S2121
L5	064a011	176093018011	mo_2500	05-MAR-2006 20:00	S2122
L6	064a012	176093018012	mo_5000	05-MAR-2006 20:27	S2117

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	35446	41492	40972	42562	41512	41334	AVRG		2.47E-5		40553	6	0.995	20	

98

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

176093018001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185586 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176098515001
Units : mg/L

Name : hexagc17cal
Date : 09-MAR-2006 19:42
X Axis : R

Reviewer: CW
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	068a015	176098515015	hex_5	09-MAR-2006 19:42	S2694
L2	068a016	176098515016	hex_10	09-MAR-2006 20:09	S2695
L3	068a017	176098515017	hex_25	09-MAR-2006 20:37	S2696
L4	068a018	176098515018	hex_50	09-MAR-2006 21:04	S2697
L5	068a019	176098515019	hex_75	09-MAR-2006 21:31	S2698

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	81036	80318	79162	79599	78325	AVRG		1.25E-5		79688	1	0.995	20	

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION SUMMARY FOR 185586 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116123376017	26-MAR-2006 23:59	115446255002	05-NOV-2005	68546	63846	1000.0	931.43	mg/L	-7	15	
GC11A	A	116123376032	27-MAR-2006 06:58	115446255002	05-NOV-2005	68546	61387	250.00	223.89	mg/L	-10	15	
GC11A	A	116123376051	27-MAR-2006 19:06	115446255002	05-NOV-2005	68546	63297	1000.0	923.42	mg/L	-8	15	
GC11A	A	116123376066	28-MAR-2006 02:11	115446255002	05-NOV-2005	68546	60945	250.00	222.28	mg/L	-11	15	
GC15B	B	166123373041	27-MAR-2006 11:41	166117087001	22-MAR-2006	55955	53492	1000.0	955.98	mg/L	-4	15	
GC15B	B	166123373054	27-MAR-2006 19:12	166117087001	22-MAR-2006	55955	50439	250.00	225.36	mg/L	-10	15	
GC15B	B	166123373069	28-MAR-2006 02:13	166117087001	22-MAR-2006	55955	47538	250.00	212.39	mg/L	-15	15	
GC17A	A	176124307011	27-MAR-2006 12:35	176085452001	01-MAR-2006	55841	61294	1000.0	1097.7	mg/L	10	15	
GC17A	A	176124307022	27-MAR-2006 18:43	176085452001	01-MAR-2006	55841	56716	250.00	253.92	mg/L	2	15	
GC17A	A	176124307036	28-MAR-2006 01:39	176085452001	01-MAR-2006	55841	63180	500.00	565.72	mg/L	13	15	
GC17A	A	176124307051	28-MAR-2006 08:31	176085452001	01-MAR-2006	55841	62312	1000.0	1115.9	mg/L	12	15	

CONTINUING CALIBRATION SUMMARY FOR 185586 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116123376016	26-MAR-2006 23:31	116049801004	04-FEB-2006	43514	38866	500.00	446.59	mg/L	-11	15	
GC11A	A	116123376031	27-MAR-2006 06:30	116049801004	04-FEB-2006	43514	38531	500.00	442.74	mg/L	-11	15	
GC11A	A	116123376050	27-MAR-2006 18:38	116049801004	04-FEB-2006	43514	37646	500.00	432.58	mg/L	-13	15	
GC11A	A	116123376065	28-MAR-2006 01:43	116049801004	04-FEB-2006	43514	40800	500.00	468.82	mg/L	-6	15	
GC15B	B	166123373042	27-MAR-2006 12:08	166115824002	21-MAR-2006	31546	30785	500.00	487.95	mg/L	-2	15	
GC15B	B	166123373055	27-MAR-2006 19:40	166115824002	21-MAR-2006	31546	29907	500.00	474.02	mg/L	-5	15	
GC15B	B	166123373068	28-MAR-2006 01:45	166115824002	21-MAR-2006	31546	28607	500.00	453.42	mg/L	-9	15	
GC17A	A	176124307010	27-MAR-2006 12:06	176093018001	05-MAR-2006	40553	36941	500.00	455.47	mg/L	-9	15	
GC17A	A	176124307021	27-MAR-2006 18:16	176093018001	05-MAR-2006	40553	36012	500.00	444.01	mg/L	-11	15	
GC17A	A	176124307035	28-MAR-2006 01:12	176093018001	05-MAR-2006	40553	37213	500.00	458.82	mg/L	-8	15	
GC17A	A	176124307050	28-MAR-2006 08:03	176093018001	05-MAR-2006	40553	36741	500.00	453.00	mg/L	-9	15	

CONTINUING CALIBRATION SUMMARY FOR 185586 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116123376016	26-MAR-2006 23:31	115446255001	05-NOV-2005	78999	70729	50.000	44.766	mg/L	-10	15	
GC11A	A	116123376031	27-MAR-2006 06:30	115446255001	05-NOV-2005	78999	69588	50.000	44.044	mg/L	-12	15	
GC11A	A	116123376050	27-MAR-2006 18:38	115446255001	05-NOV-2005	78999	70494	50.000	44.616	mg/L	-11	15	
GC11A	A	116123376065	28-MAR-2006 01:43	115446255001	05-NOV-2005	78999	74575	50.000	47.200	mg/L	-6	15	
GC15B	B	166123373041	27-MAR-2006 11:41	166114247001	20-MAR-2006	62034	57473	50.000	46.324	mg/L	-7	15	
GC15B	B	166123373054	27-MAR-2006 19:12	166114247001	20-MAR-2006	62034	62267	50.000	50.188	mg/L	0	15	
GC15B	B	166123373068	28-MAR-2006 01:45	166114247001	20-MAR-2006	62034	60102	50.000	48.442	mg/L	-3	15	
GC17A	A	176124307010	27-MAR-2006 12:06	176098515001	09-MAR-2006	79688	70893	50.000	44.482	mg/L	-11	15	
GC17A	A	176124307021	27-MAR-2006 18:16	176098515001	09-MAR-2006	79688	70492	50.000	44.230	mg/L	-12	15	
GC17A	A	176124307035	28-MAR-2006 01:12	176098515001	09-MAR-2006	79688	72941	50.000	45.767	mg/L	-8	15	
GC17A	A	176124307050	28-MAR-2006 08:03	176098515001	09-MAR-2006	79688	73232	50.000	45.950	mg/L	-8	15	

SEQUENCE SUMMARY FOR 185586 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 115446255 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 05-NOV-2005
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
003	309a003	X	c12-60			05-NOV-2005 20:11	1.0						
004	309a004	X	c50			05-NOV-2005 20:39	1.0						
005	309a005	X	ib			05-NOV-2005 21:07	1.0						
006	309a006	ICAL	hex_5			05-NOV-2005 21:35	1.0					1	
007	309a007	ICAL	hex_10			05-NOV-2005 22:02	1.0					2	
008	309a008	ICAL	hex_25			05-NOV-2005 22:30	1.0					3	
009	309a009	ICAL	hex_50			05-NOV-2005 22:58	1.0					4	
010	309a010	ICAL	hex_75			05-NOV-2005 23:25	1.0					5	
011	309a011	ICAL	dsl_10			05-NOV-2005 23:53	1.0					6	
013	309a013	ICAL	dsl_250			06-NOV-2005 00:49	1.0					7	
014	309a014	ICAL	dsl_500			06-NOV-2005 01:17	1.0					8	
015	309a015	ICAL	dsl_1000			06-NOV-2005 01:45	1.0					9	
016	309a016	ICAL	dsl_2500			06-NOV-2005 02:12	1.0					10	
017	309a017	ICAL	dsl_5000			06-NOV-2005 02:40	1.0					11	
039	309a039	ICAL	dsl_100			06-NOV-2005 22:23	1.0					12	103
040	309a040	ICV	dsl			06-NOV-2005 23:18	1.0		3			13	
041	309a041	ICAL	mo_50			06-NOV-2005 23:46	1.0					14	
042	309a042	ICAL	mo_250			07-NOV-2005 00:14	1.0					15	
043	309a043	ICAL	mo_500			07-NOV-2005 00:42	1.0					16	
044	309a044	ICAL	mo_1000			07-NOV-2005 01:10	1.0					17	
045	309a045	ICAL	mo_2500			07-NOV-2005 01:38	1.0					18	
046	309a046	ICAL	mo_5000			07-NOV-2005 02:06	1.0					19	

Stds used: 1=S1469 2=S1470 3=S1471 4=S1472 5=S1473 6=S1732 7=S1734 8=S1735 9=S1736 10=S1737 11=S1731 12=S1733 13=S1178 14=S693 15=S694 16=S695 17=S696 18=S697 19=S691

SEQUENCE SUMMARY FOR 185586 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116049801 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 03-FEB-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	034a001	X	primer			03-FEB-2006 14:01	1.0							
002	034a002	X	ib			03-FEB-2006 14:29	1.0							
003	034a003	CCV	dsl_250			03-FEB-2006 14:57	1.0			3			1	
004	034a004	X	ib			03-FEB-2006 15:25	1.0							
005	034a005	CCV	mo_500			03-FEB-2006 15:53	1.0	6		3			2	
006	034a006	?SAMPLE	184620-007			03-FEB-2006 16:21	1.0							
007	034a007	?SAMPLE	184620-008			03-FEB-2006 16:49	1.0							
008	034a008	?SAMPLE	184620-009			03-FEB-2006 17:17	1.0							
009	034a009	?SAMPLE	184620-010			03-FEB-2006 17:45	1.0							
010	034a010	X	ib			03-FEB-2006 18:13	1.0							
011	034a011	?SAMPLE	184620-006			03-FEB-2006 18:41	1.0							
012	034a012	?SAMPLE	184620-004			03-FEB-2006 19:09	1.0							
013	034a013	?SAMPLE	184620-005			03-FEB-2006 19:37	1.0							
014	034a014	X	ib			03-FEB-2006 20:05	1.0							
015	034a015	?SAMPLE	184620-001			03-FEB-2006 20:33	1.0							104
016	034a016	?SAMPLE	184620-002			03-FEB-2006 21:01	1.0							
017	034a017	?SAMPLE	184620-003			03-FEB-2006 21:29	1.0							
018	034a018	X	ib			03-FEB-2006 21:57	1.0							
019	034a019	CCV	dsl_500			03-FEB-2006 22:25	1.0						3	
020	034a020	X	ib			03-FEB-2006 22:54	1.0							
021	034a021	X	ib			03-FEB-2006 23:22	1.0							
022	034a022	X	ib			03-FEB-2006 23:50	1.0							
023	034a023	ICAL	mo_50			04-FEB-2006 00:18	1.0						4	
024	034a024	ICAL	mo_250			04-FEB-2006 00:46	1.0						5	
025	034a025	ICAL	mo_500			04-FEB-2006 01:14	1.0						6	
026	034a026	ICAL	mo_1000			04-FEB-2006 01:42	1.0						7	
027	034a027	ICAL	mo_2500			04-FEB-2006 02:10	1.0						8	
028	034a028	ICAL	mo_5000			04-FEB-2006 02:39	1.0						9	
029	034a029	X	ib			04-FEB-2006 03:07	1.0							

Stds used: 1=S2505 2=S2577 3=S2504 4=S2118 5=S2119 6=S2120 7=S2121 8=S2122 9=S2117

SEQUENCE SUMMARY FOR 185586 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176085452 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 28-FEB-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	059a001	X	primer			28-FEB-2006 08:12	1.0							
002	059a002	X	primer			28-FEB-2006 11:01	1.0							
003	059a003	X	ib			28-FEB-2006 11:28	1.0							
004	059a004	CCV	S2662.dsl_50			28-FEB-2006 11:56	1.0							
005	059a005	CCV	mo_500			28-FEB-2006 12:23	1.0						1	
006	059a006	X	ccv			28-FEB-2006 14:08	1.0						1	
007	059a007	CCV	dsl_500			28-FEB-2006 16:04	1.0			3			2	
008	059a008	CCV	mo_500			28-FEB-2006 18:04	1.0	6		3			1	
009	059a009	X	ib			28-FEB-2006 22:27	1.0							
010	059a010	X	c 10-16			28-FEB-2006 22:54	20.0							
011	059a011	X	c 12-60			28-FEB-2006 23:21	1.0							
012	059a012	X	ib			01-MAR-2006 07:15	1.0							
013	059a013	ICAL	dsl_50			01-MAR-2006 07:43	1.0						3	
014	059a014	ICAL	dsl_100			01-MAR-2006 08:10	1.0						4	
015	059a015	ICAL	dsl_250			01-MAR-2006 08:37	1.0						5	105
016	059a016	ICAL	dsl_500			01-MAR-2006 09:04	1.0						6	
017	059a017	ICAL	dsl_1000			01-MAR-2006 09:32	1.0						7	
018	059a018	ICAL	dsl_2500			01-MAR-2006 10:00	1.0						8	
019	059a019	ICAL	dsl_5000			01-MAR-2006 10:27	1.0						9	
020	059a020	X	ib			01-MAR-2006 10:54	1.0							
021	059a021	ICV	dsl_500			01-MAR-2006 11:22	1.0			3			10	
022	059a022	X	dsl_500			01-MAR-2006 11:49	1.0						10	
023	059a023	X	ib			01-MAR-2006 12:16	1.0							
024	059a024	ICAL	mo_50			01-MAR-2006 12:44	1.0						11	
025	059a025	ICAL	mo_250			01-MAR-2006 13:11	1.0						12	
026	059a026	ICAL	mo_500			01-MAR-2006 13:38	1.0						13	
027	059a027	ICAL	mo_1000			01-MAR-2006 14:06	1.0						14	
028	059a028	ICAL	mo_2500			01-MAR-2006 14:33	1.0						15	
029	059a029	ICAL	mo_5000			01-MAR-2006 15:01	1.0						16	
030	059a030	X	ib			01-MAR-2006 15:28	1.0							

Stds used: 1=S2741 2=S2662 3=S1732 4=S1733 5=S1734 6=S1735 7=S1736 8=S1737 9=S1731 10=S2708 11=S2118 12=S2119 13=S2120 14=S2121 15=S2122 16=S2117 17=S2694 18=S2695 19=S2696 20=S2697 21=S2698

SEQUENCE SUMMARY FOR 185586 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176085452 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 28-FEB-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
031	059a031	ICAL	hex_5			01-MAR-2006 15:55	1.0					17	
032	059a032	ICAL	hex_10			01-MAR-2006 16:23	1.0					18	
033	059a033	ICAL	hex_25			01-MAR-2006 16:50	1.0					19	
034	059a034	ICAL	hex_50			01-MAR-2006 17:17	1.0					20	
035	059a035	ICAL	hex_75			01-MAR-2006 17:44	1.0					21	
036	059a036	X	ib			01-MAR-2006 18:11	1.0						

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Stds used: 1=S2741 2=S2662 3=S1732 4=S1733 5=S1734 6=S1735 7=S1736 8=S1737 9=S1731 10=S2708 11=S2118 12=S2119 13=S2120 14=S2121 15=S2122 16=S2117 17=S2694 18=S2695 19=S2696 20=S2697 21=S2698

SEQUENCE SUMMARY FOR 185586 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176093018 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 05-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	064a001	X	primer			05-MAR-2006 14:18	1.0						
002	064a002	X	ib			05-MAR-2006 14:45	1.0						
003	064a003	CCV	dsl_500			05-MAR-2006 15:13	1.0	1.0			3	1	
004	064a004	CCV	mo_500			05-MAR-2006 15:40	1.0	1.0	5		3	2	
005	064a005	CCV	bunk_1250			05-MAR-2006 16:07	1.0	1.0			3	3	
006	064a006	CCV	mo_500			05-MAR-2006 17:21	1.0	1.0	4		3	4	
007	064a007	ICAL	mo_50			05-MAR-2006 18:11	1.0	1.0				5	
008	064a008	ICAL	mo_250			05-MAR-2006 18:38	1.0	1.0				6	
009	064a009	ICAL	mo_500			05-MAR-2006 19:05	1.0	1.0				7	
010	064a010	ICAL	mo_1000			05-MAR-2006 19:32	1.0	1.0				8	
011	064a011	ICAL	mo_2500			05-MAR-2006 20:00	1.0	1.0				9	
012	064a012	ICAL	mo_5000			05-MAR-2006 20:27	1.0	1.0				10	
013	064a013	X	ib			05-MAR-2006 20:54	1.0						
014	064a014	X	ib			05-MAR-2006 21:21	1.0						
015	064a015	CCV	dsl_1000			05-MAR-2006 21:48	1.0					11	107
016	064a016	CCV	mo_500			05-MAR-2006 22:16	1.0					4	
017	064a017	CCV	bunk_1250			05-MAR-2006 22:43	1.0					3	
018	064a018	X	xccv			05-MAR-2006 23:10	1.0					11	
019	064a019	BLANK	QC329822 S	110900	Water	05-MAR-2006 23:38	1.0						
020	064a020	BLANK	QC329951 S	110935	Soil	06-MAR-2006 00:05	1.0						
021	064a021	BLANK	QC330003 S	110946	Soil	06-MAR-2006 00:32	1.0						
022	064a022	LCS	QC329823 S	110900	Water	06-MAR-2006 00:59	1.0						
023	064a023	LCS	QC329952 S	110935	Soil	06-MAR-2006 01:27	1.0						
024	064a024	LCS	QC330004 S	110946	Soil	06-MAR-2006 01:55	1.0						
025	064a025	MS	QC329824	110900	Water	06-MAR-2006 02:22	1.0						
026	064a026	MSD	QC329825	110900	Water	06-MAR-2006 02:50	1.0						
027	064a027	MS	QC330005 S	110946	Soil	06-MAR-2006 03:17	2.0						
028	064a028	MSD	QC330006 S	110946	Soil	06-MAR-2006 03:44	2.0						
029	064a029	X	ib			06-MAR-2006 04:11	1.0						
030	064a030	CCV	dsl_250			06-MAR-2006 04:39	1.0					12	
031	064a031	CCV	mo_500			06-MAR-2006 05:06	1.0					4	

Stds used: 1=S2662 2=S2741 3=S2401 4=S2843 5=S2118 6=S2119 7=S2120 8=S2121 9=S2122 10=S2117 11=S2647 12=S2755

SEQUENCE SUMMARY FOR 185586 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176093018 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 05-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	064a032	CCV	bunk_1250			06-MAR-2006 05:33	1.0				3	
033	064a033	X	xccv			06-MAR-2006 06:00	1.0				12	
034	064a034	SAMPLE	185049-005	110845	Water	06-MAR-2006 06:28	1.0					
035	064a035	SAMPLE	185057-001	110845	Water	06-MAR-2006 06:55	1.0					
036	064a036	SAMPLE	185021-004	110845	Water	06-MAR-2006 07:33	1.0					
037	064a037	SAMPLE	185096-003	110851	Water	06-MAR-2006 08:01	1.0					
038	064a038	?SAMPLE	185095-003	110851		06-MAR-2006 08:28	1.0					
039	064a039	MSS	185082-015 S	110946	Soil	06-MAR-2006 08:56	2.0	0.1008	5	3		
040	064a040	?MS	QC329951	110935		06-MAR-2006 09:23	2.0					
041	064a041	?MSD	QC329952	110935		06-MAR-2006 09:50	2.0					
042	064a042	MS	QC329764	110886	Soil	06-MAR-2006 10:18	5.0					
043	064a043	?MSD	QC329764	110886		06-MAR-2006 10:45	5.0					
044	064a044	X	ib			06-MAR-2006 11:12	1.0					
045	064a045	X	ib			06-MAR-2006 11:40	1.0					
046	064a046	CCV	dsl_500			06-MAR-2006 12:07	1.0				2	108
047	064a047	CCV	mo_500			06-MAR-2006 12:35	1.0				4	
048	064a048	CCV	bunk_1250			06-MAR-2006 13:02	1.0				3	
049	064a049	X	xccv			06-MAR-2006 13:29	1.0				2	

Stds used: 1=S2662 2=S2741 3=S2401 4=S2843 5=S2118 6=S2119 7=S2120 8=S2121 9=S2122 10=S2117 11=S2647 12=S2755

SEQUENCE SUMMARY FOR 185586 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176098515 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 09-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	068a001	X	ib			09-MAR-2006 09:55	1.0					
002	068a002	?SAMPLE	185382-001			09-MAR-2006 10:22	10.0					
003	068a003	?SAMPLE	185382-002			09-MAR-2006 10:49	10.0					
004	068a004	?SAMPLE	185382-003			09-MAR-2006 11:17	10.0					
005	068a005	?SAMPLE	185382-004			09-MAR-2006 11:44	10.0					
006	068a006	?SAMPLE	185382-005			09-MAR-2006 12:12	10.0					
007	068a007	X	ib			09-MAR-2006 12:39	1.0					
008	068a008	X	mb fingerpri			09-MAR-2006 13:06	1.0					
009	068a009	CCV	jet_250			09-MAR-2006 13:34	1.0				1	
010	068a010	X	ib			09-MAR-2006 16:37	1.0					
011	068a011	CCV	dsl_500			09-MAR-2006 17:05	1.0	1.0		3	2	
012	068a012	CCV	mo_500			09-MAR-2006 17:32	1.0	1.0	2	3	3	
013	068a013	CCV	bunk_1250			09-MAR-2006 18:23	1.0	1.0		3	4	
014	068a014	X	ib			09-MAR-2006 19:15	1.0					
015	068a015	ICAL	hex_5			09-MAR-2006 19:42	1.0	1.0			5	109
016	068a016	ICAL	hex_10			09-MAR-2006 20:09	1.0	1.0			6	
017	068a017	ICAL	hex_25			09-MAR-2006 20:37	1.0	1.0			7	
018	068a018	ICAL	hex_50			09-MAR-2006 21:04	1.0	1.0			8	
019	068a019	ICAL	hex_75			09-MAR-2006 21:31	1.0	1.0			9	
020	068a020	X	ib			09-MAR-2006 21:59	1.0					
021	068a021	CCV	dsl_1000			09-MAR-2006 22:26	1.0	1.0		3	10	
022	068a022	CCV	mo_500			09-MAR-2006 22:53	1.0	1.0	2	3	3	
023	068a023	X	dsl_1000			09-MAR-2006 23:20	1.0				10	
024	068a024	CCV	bunk_1250			09-MAR-2006 23:48	1.0	1.0		3	4	
025	068a025	SAMPLE	185247-003 S	111034	Water	10-MAR-2006 00:15	1.0	0.005		3		
026	068a026	SAMPLE	185271-008 S	111034	Water	10-MAR-2006 00:42	1.0	0.005		3		
027	068a027	SAMPLE	185334-001 S	111055	Water	10-MAR-2006 01:10	1.0	0.005		3		
028	068a028	SAMPLE	185271-009 S	111034	Water	10-MAR-2006 01:37	1.0	0.005		3		
029	068a029	SAMPLE	185271-010 S	111034	Water	10-MAR-2006 02:04	1.0	0.005		3		
030	068a030	SAMPLE	185350-001 S	111055	Water	10-MAR-2006 02:31	1.0	0.005		3		
031	068a031	SAMPLE	185333-014 S	111062	Soil	10-MAR-2006 02:58	1.0	0.1000		3		

Stds used: 1=S2432 2=S2871 3=S2741 4=S2872 5=S2694 6=S2695 7=S2696 8=S2697 9=S2698 10=S2885 11=S2755 12=S2843

SEQUENCE SUMMARY FOR 185586 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176098515 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 09-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used >LR
032	068a032	SAMPLE	185247-005 S	111034	Water	10-MAR-2006 03:25	1.0	0.005	2	1	3	17:BUNKC:=50672.4
033	068a033	MS	QC330414 S	111050	Soil	10-MAR-2006 03:52	1.0	0.1009		1	3	3:BUNKC:=7224.34
034	068a034	MSD	QC330415 S	111050	Soil	10-MAR-2006 04:20	1.0	0.1001			3	1:BUNKC:=5003.11
035	068a035	CCV	dsl_250			10-MAR-2006 04:47	1.0	1.0			3	11
036	068a036	CCV	mo_500			10-MAR-2006 05:14	1.0	1.0	2		3	3
037	068a037	X	xccv			10-MAR-2006 05:42	1.0					11
038	068a038	CCV	bunk_1250			10-MAR-2006 06:09	1.0	1.0			3	4
039	068a039	SAMPLE	185333-022 S	111062	Soil	10-MAR-2006 06:36	1.0	0.1006			3	
040	068a040	SAMPLE	185333-023 S	111062	Soil	10-MAR-2006 07:03	1.0	0.1004			3	
041	068a041	SAMPLE	185211-001	111002	Water	10-MAR-2006 07:30	1.0	0.005			3	
042	068a042	SAMPLE	185211-002	111002	Water	10-MAR-2006 07:58	1.0	0.005			3	
043	068a043	SAMPLE	185229-030	111002	Water	10-MAR-2006 08:24	1.0	0.005		1	3	
044	068a044	SAMPLE	185229-031	111002	Water	10-MAR-2006 08:52	1.0	0.005			3	
045	068a045	SAMPLE	185229-033	111002	Water	10-MAR-2006 09:19	1.0	0.005			3	
046	068a046	SAMPLE	185279-001	111034	Water	10-MAR-2006 09:46	1.0	0.005	1		3	1:HXCS=104.620
047	068a047	SAMPLE	185339-001	111055	Water	10-MAR-2006 10:13	1.0	0.005			3	
048	068a048	SAMPLE	185339-002	111055	Water	10-MAR-2006 10:40	5.0	0.005			3	
049	068a049	CCV	dsl_500			10-MAR-2006 11:08	1.0	1.0			3	2
050	068a050	CCV	mo_500			10-MAR-2006 11:36	1.0	1.0	2		3	12
051	068a051	X	dsl_500			10-MAR-2006 12:03	1.0					2
052	068a052	CCV	bunk_1250			10-MAR-2006 12:30	1.0	1.0			3	4

Stds used: 1=S2432 2=S2871 3=S2741 4=S2872 5=S2694 6=S2695 7=S2696 8=S2697 9=S2698 10=S2885 11=S2755 12=S2843

SEQUENCE SUMMARY FOR 185586 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166114247 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	079b001	X	primer			20-MAR-2006 08:07	1.0					
002	079b002	X	ib			20-MAR-2006 08:34	1.0					
003	079b003	CCV	dsl_500			20-MAR-2006 09:02	1.0	1.0		3	1	
004	079b004	CCV	mo_500			20-MAR-2006 11:26	1.0				2	
005	079b005	CCV	dsl_500			20-MAR-2006 11:53	1.0				1	
006	079b006	X	ib			20-MAR-2006 14:24	1.0					
007	079b007	ICAL	hex_5			20-MAR-2006 14:52	1.0	1.0			3	
008	079b008	ICAL	hex_10			20-MAR-2006 15:20	1.0	1.0			4	
009	079b009	ICAL	hex_25			20-MAR-2006 15:49	1.0	1.0			5	
010	079b010	ICAL	hex_50			20-MAR-2006 16:17	1.0	1.0			6	
011	079b011	ICAL	hex_75			20-MAR-2006 16:45	1.0	1.0			7	
012	079b012	CCV	dsl_1000			20-MAR-2006 17:14	1.0	1.0		3	8	
013	079b013	CCV	mo_500			20-MAR-2006 17:42	1.0	1.0		3	2	
014	079b014	SAMPLE	185385-001 S	111346	Water	20-MAR-2006 18:23	1.0	0.005		3		111
015	079b015	SAMPLE	185385-002 S	111346	Water	20-MAR-2006 18:52	1.0	0.005		3		
016	079b016	SAMPLE	185385-003 S	111346	Water	20-MAR-2006 19:20	1.0	0.005		3		
017	079b017	SAMPLE	185385-004 S	111346	Water	20-MAR-2006 19:48	1.0	0.005		3		
018	079b018	SAMPLE	185385-005 S	111346	Water	20-MAR-2006 20:16	1.0	0.005		3		
019	079b019	X	ib			20-MAR-2006 20:45	1.0					
020	079b020	SAMPLE	185385-006 S	111346	Water	20-MAR-2006 21:13	1.0	0.005		3		
021	079b021	SAMPLE	185385-007 S	111346	Water	20-MAR-2006 21:41	1.0	0.005		3		
022	079b022	SAMPLE	185385-008 S	111346	Water	20-MAR-2006 22:09	1.0	0.005		3		
023	079b023	SAMPLE	185385-009 S	111346	Water	20-MAR-2006 22:37	1.0	0.005		3		
024	079b024	SAMPLE	185385-011 S	111346	Water	20-MAR-2006 23:05	1.0	0.005		3		
025	079b025	X	ib			20-MAR-2006 23:33	1.0					
026	079b026	X	ib			21-MAR-2006 00:01	1.0					
027	079b027	CCV	dsl_250			21-MAR-2006 00:29	1.0	1.0		3	9	
028	079b028	CCV	mo_500			21-MAR-2006 00:57	1.0	1.0	3	3	2	
029	079b029	X	ccv			21-MAR-2006 01:25	1.0				2	
030	079b030	X	ccv			21-MAR-2006 01:52	1.0				9	
031	079b031	SAMPLE	185414-001 S	111437	Water	21-MAR-2006 02:20	1.0	0.005		3		

Stds used: 1=S2871 2=S2843 3=S2694 4=S2695 5=S2696 6=S2697 7=S2698 8=S2885 9=S2755

SEQUENCE SUMMARY FOR 185586 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166114247 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	079b032	SAMPLE	185525-004 S	111348	Water	21-MAR-2006 02:48	1.0	0.005		3		
033	079b033	SAMPLE	185525-001 S	111348	Water	21-MAR-2006 03:15	1.0	0.005		3		
034	079b034	SAMPLE	185525-005 S	111348	Water	21-MAR-2006 03:43	1.0	0.005		3		
035	079b035	SAMPLE	185525-008 S	111348	Water	21-MAR-2006 04:11	1.0	0.005		3		
036	079b036	SAMPLE	185525-011 S	111348	Water	21-MAR-2006 04:38	1.0	0.005		3		
037	079b037	SAMPLE	185525-007 S	111348	Water	21-MAR-2006 05:06	1.0	0.005		3		
038	079b038	SAMPLE	185525-010 S	111348	Water	21-MAR-2006 05:34	1.0	0.005		3		
039	079b039	SAMPLE	185525-012 S	111348	Water	21-MAR-2006 06:02	1.0	0.005		3		
040	079b040	X	ib			21-MAR-2006 06:30	1.0					
041	079b041	CCV	dsl_1000			21-MAR-2006 06:57	1.0	1.0	7	3	8	
042	079b042	CCV	mo_500			21-MAR-2006 07:25	1.0	1.0	4	3	2	
043	079b043	X	ccv			21-MAR-2006 07:53	1.0				2	
044	079b044	X	ccv			21-MAR-2006 08:20	1.0				8	

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Stds used: 1=S2871 2=S2843 3=S2694 4=S2695 5=S2696 6=S2697 7=S2698 8=S2885 9=S2755

SEQUENCE SUMMARY FOR 185586 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166115824 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 21-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	080b001	ICAL	dsl_10			21-MAR-2006 10:24	1.0				1	
002	080b002	X	ib			21-MAR-2006 11:50	1.0					
003	080b003	CCV	dsl_500			21-MAR-2006 12:18	1.0	1.0		3	2	
004	080b004	CCV	mo_500			21-MAR-2006 12:46	1.0	1.0	2	3	3	
005	080b005	X	ib			21-MAR-2006 14:24	1.0					
006	080b006	ICAL	mo_50			21-MAR-2006 14:52	1.0	1.0			4	
007	080b007	ICAL	mo_250			21-MAR-2006 15:20	1.0	1.0			5	
008	080b008	ICAL	mo_500			21-MAR-2006 15:49	1.0	1.0			6	
009	080b009	ICAL	mo_1000			21-MAR-2006 16:17	1.0	1.0			7	
010	080b010	ICAL	mo_2500			21-MAR-2006 16:46	1.0	1.0			8	
011	080b011	ICAL	mo_5000			21-MAR-2006 17:15	1.0	1.0			9	
012	080b012	X	ib			21-MAR-2006 17:52	1.0					
013	080b013	CCV	dsl_1000			21-MAR-2006 18:21	1.0	1.0		3	10	
014	080b014	X	mo_500			21-MAR-2006 18:49	1.0	1.0	3	3	3	
015	080b015	CCV	mo_500			21-MAR-2006 19:27	1.0	1.0	2	3	11	113
016	080b016	SAMPLE	185580-002	111477	Water	21-MAR-2006 21:34	1.0	0.005		3		
017	080b017	SAMPLE	185580-010	111477	Water	21-MAR-2006 22:02	1.0	0.005		3		
018	080b018	SAMPLE	185457-011 S	111478	Water	21-MAR-2006 22:30	1.0	0.005		3		
019	080b019	SAMPLE	185457-012 S	111478	Water	21-MAR-2006 22:58	1.0	0.005		3		
020	080b020	SAMPLE	185457-013 S	111478	Water	21-MAR-2006 23:26	1.0	0.005		3		
021	080b021	SAMPLE	185457-014 S	111478	Water	21-MAR-2006 23:54	1.0	0.005		3		
022	080b022	MSS	185457-016 S	111478	Water	22-MAR-2006 00:22	1.0	0.005	8	3		
023	080b023	SAMPLE	185457-017 S	111478	Water	22-MAR-2006 00:50	1.0	0.005		3		
024	080b024	SAMPLE	185457-019 S	111478	Water	22-MAR-2006 01:18	1.0	0.005		3		
025	080b025	MSS	185457-020 S	111478	Water	22-MAR-2006 01:46	1.0	0.005	8	3		
026	080b026	X	ib			22-MAR-2006 02:14	1.0					
027	080b027	CCV	dsl_250			22-MAR-2006 02:41	1.0	1.0		3	12	
028	080b028	CCV	mo_500			22-MAR-2006 03:09	1.0	1.0	2	3	13	
029	080b029	X	ccv			22-MAR-2006 03:37	1.0				12	
030	080b030	X	ccv			22-MAR-2006 04:05	1.0				13	

Stds used: 1=S2964 2=S2871 3=S2843 4=S2118 5=S2119 6=S2120 7=S2121 8=S2122 9=S2117 10=S2885 11=S2972 12=S2755 13=S2971

SEQUENCE SUMMARY FOR 185586 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166117087 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	081b001	X	primer			22-MAR-2006 07:27	1.0						
002	081b002	X	ib			22-MAR-2006 07:55	1.0						
003	081b003	CCV	dsl_500			22-MAR-2006 08:27	1.0	1.0	6		3	1	
004	081b004	CCV	mo_500			22-MAR-2006 08:55	1.0	1.0	2		3	2	
005	081b005	X	ib			22-MAR-2006 12:12	1.0						
006	081b006	ICAL	dsl_10			22-MAR-2006 12:39	1.0	1.0				3	
007	081b007	ICAL	dsl_100			22-MAR-2006 13:07	1.0	1.0				4	
008	081b008	ICAL	dsl_250			22-MAR-2006 13:34	1.0	1.0				5	
009	081b009	ICAL	dsl_500			22-MAR-2006 14:02	1.0	1.0				6	
010	081b010	ICAL	dsl_1000			22-MAR-2006 14:30	1.0	1.0				7	
011	081b011	ICAL	dsl_2500			22-MAR-2006 14:57	1.0	1.0				8	
012	081b012	ICAL	dsl_5000			22-MAR-2006 15:25	1.0	1.0				9	
013	081b013	X	ib			22-MAR-2006 15:53	1.0						
014	081b014	ICV	dsl_500			22-MAR-2006 16:21	1.0	1.0			3	10	
015	081b015	X	ib			22-MAR-2006 16:49	1.0						114
016	081b016	CCV	dsl_500			22-MAR-2006 17:17	1.0	1.0			3	1	
017	081b017	CCV	mo_500			22-MAR-2006 17:45	1.0	1.0	2		3	2	
018	081b018	CCV	ker_250			22-MAR-2006 18:43	1.0	1.0			3	11	
019	081b019	LCS	QC332247 S	111483	Soil	22-MAR-2006 19:18	1.0	0.09921			3		
020	081b020	BLANK	QC332246 S	111483	Soil	22-MAR-2006 19:45	1.0	0.1007	7		3		
021	081b021	MSS	185620-003 S	111483	Soil	22-MAR-2006 20:13	1.0	0.1001	9		3		
022	081b022	MS	QC332248 S	111483	Soil	22-MAR-2006 20:41	1.0	0.1006			3		
023	081b023	MSD	QC332249 S	111483	Soil	22-MAR-2006 21:09	1.0	0.1004			3		
024	081b024	X	ib			22-MAR-2006 21:37	1.0						
025	081b025	SAMPLE	185463-003 S	111513	Water	22-MAR-2006 22:05	1.0	0.005			3		
026	081b026	SAMPLE	185463-004 S	111513	Water	22-MAR-2006 22:33	1.0	0.005			3		
027	081b027	SAMPLE	185639-002	111483	Soil	22-MAR-2006 23:01	1.0	0.1002			3		
028	081b028	SAMPLE	185640-001	111483	Soil	22-MAR-2006 23:29	3.0	0.09974	3		3		19:BUNKC:=35667.6
029	081b029	SAMPLE	185640-002	111483	Soil	22-MAR-2006 23:57	20.0	0.2001	2		3		12:BUNKC:=30917.1
030	081b030	X	ib			23-MAR-2006 00:24	1.0						
031	081b031	CCV	dsl_1000			23-MAR-2006 00:52	1.0	1.0			3	12	

Stds used: 1=S2871 2=S2971 3=S2961 4=S2938 5=S2939 6=S2940 7=S2941 8=S2942 9=S2936 10=S2708 11=S2806 12=S2885

SEQUENCE SUMMARY FOR 185586 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166117087 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	081b032	CCV	mo_500			23-MAR-2006 01:20	1.0	1.0	2	3	2	
033	081b033	X	ccv			23-MAR-2006 01:48	1.0				12	
034	081b034	CCV	ker_250			23-MAR-2006 02:16	1.0	1.0		3	11	

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Stds used: 1=S2871 2=S2971 3=S2961 4=S2938 5=S2939 6=S2940 7=S2941 8=S2942 9=S2936 10=S2708 11=S2806 12=S2885

SEQUENCE SUMMARY FOR 185586 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116123376 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 26-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	085a001	X	primer			26-MAR-2006 16:16	1.0					
002	085a002	X	ib			26-MAR-2006 16:44	1.0					
003	085a003	CCV	mo_500			26-MAR-2006 17:11	1.0	1.0	1	3	1	
004	085a004	CCV	dsl_250			26-MAR-2006 17:39	1.0	1.0		3	2	
005	085a005	BS	QC332979 S	111662	Water	26-MAR-2006 18:23	1.0	0.005		3		
006	085a006	BSD	QC332980 S	111662	Water	26-MAR-2006 18:51	1.0	0.005		3		
007	085a007	BLANK	QC332978 S	111662	Water	26-MAR-2006 19:19	1.0	0.005	8	3		
008	085a008	SAMPLE	185558-012 S	111662	Water	26-MAR-2006 19:47	1.0	0.005		3		
009	085a009	SAMPLE	185558-013 S	111662	Water	26-MAR-2006 20:15	1.0	0.005		3		
010	085a010	SAMPLE	185558-014 S	111662	Water	26-MAR-2006 20:43	1.0	0.005		3		
011	085a011	SAMPLE	185558-015 S	111662	Water	26-MAR-2006 21:11	1.0	0.005		3		
012	085a012	SAMPLE	185558-016 S	111662	Water	26-MAR-2006 21:39	1.0	0.005		3		
013	085a013	SAMPLE	185558-017 S	111662	Water	26-MAR-2006 22:07	1.0	0.005		3		
014	085a014	SAMPLE	185558-018 S	111662	Water	26-MAR-2006 22:35	1.0	0.005		3		
015	085a015	X	ib			26-MAR-2006 23:03	1.0					116
016	085a016	CCV	mo_500			26-MAR-2006 23:31	1.0	1.0		3	1	
017	085a017	CCV	dsl_1000			26-MAR-2006 23:59	1.0	1.0		3	3	
018	085a018	X	ccv			27-MAR-2006 00:27	1.0				1	
019	085a019	X	ccv			27-MAR-2006 00:55	1.0				3	
020	085a020	BS	QC333048 S	111685	Water	27-MAR-2006 01:23	1.0	0.005		3		
021	085a021	BSD	QC333049 S	111685	Water	27-MAR-2006 01:51	1.0	0.005		3		
022	085a022	BLANK	QC333047 S	111685	Water	27-MAR-2006 02:19	1.0	0.005		3		
023	085a023	SAMPLE	185558-019 S	111662	Water	27-MAR-2006 02:47	1.0	0.005		3		
024	085a024	SAMPLE	185651-001 S	111662	Water	27-MAR-2006 03:15	1.0	0.005		3		
025	085a025	SAMPLE	185651-002 S	111662	Water	27-MAR-2006 03:43	1.0	0.005		3		
026	085a026	SAMPLE	185562-001 S	111685	Water	27-MAR-2006 04:11	1.0	0.005		3		
027	085a027	SAMPLE	185562-002 S	111685	Water	27-MAR-2006 04:39	1.0	0.005		3		
028	085a028	SAMPLE	185558-020 S	111685	Water	27-MAR-2006 05:07	1.0	0.005		3		
029	085a029	SAMPLE	185558-021 S	111685	Water	27-MAR-2006 05:34	1.0	0.005		3		
030	085a030	X	ib			27-MAR-2006 06:02	1.0					
031	085a031	CCV	mo_500			27-MAR-2006 06:30	1.0	1.0		3	1	

Stds used: 1=S2971 2=S2755 3=S2885 4=S2871 5=S2432

SEQUENCE SUMMARY FOR 185586 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116123376 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 26-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	085a032	CCV	dsl_250			27-MAR-2006 06:58	1.0	1.0			3	2	
033	085a033	X	ccv			27-MAR-2006 07:26	1.0					1	
034	085a034	SAMPLE	185674-004 S	111684	Water	27-MAR-2006 07:54	1.0	0.005			3		
035	085a035	SAMPLE	185674-005 S	111684	Water	27-MAR-2006 08:22	1.0	0.005			3		
036	085a036	SAMPLE	185674-006 S	111684	Water	27-MAR-2006 08:50	1.0	0.005			3		
037	085a037	SAMPLE	185693-001 S	111684	Water	27-MAR-2006 09:18	1.0	0.005			3		
038	085a038	SAMPLE	185693-002 S	111684	Water	27-MAR-2006 09:46	1.0	0.005			3		
039	085a039	CCV	mo_500			27-MAR-2006 10:20	1.0	1.0			3	1	
040	085a040	CCV	dsl_500			27-MAR-2006 10:48	1.0	1.0			3	4	
041	085a041	CCV	jet_250			27-MAR-2006 12:54	1.0	1.0			3	5	
042	085a042	SAMPLE	185632-009	111566	Water	27-MAR-2006 13:22	1.0	0.005	1		3		7:BUNKC:=10296.5
043	085a043	SAMPLE	185632-010	111566	Water	27-MAR-2006 13:50	1.0	0.005		1	3		
044	085a044	SAMPLE	185632-011	111566	Water	27-MAR-2006 14:18	2.0	0.005			3		1:JP8:10=3002.95
045	085a045	SAMPLE	185632-010	111566	Water	27-MAR-2006 14:46	1.0						
046	085a046	SAMPLE	185632-010	111566	Water	27-MAR-2006 15:26	1.0						
047	085a047	SAMPLE	185632-010	111566	Water	27-MAR-2006 15:54	2.0	0.005			3		
048	085a048	SAMPLE	185632-011 S	111566	Water	27-MAR-2006 16:22	2.0	0.005			3		
049	085a049	SAMPLE	185632-010 S	111566	Water	27-MAR-2006 18:10	1.0	0.005			3		
050	085a050	CCV	mo_500			27-MAR-2006 18:38	1.0	1.0			3	1	
051	085a051	CCV	dsl_1000			27-MAR-2006 19:06	1.0	1.0			3	3	
052	085a052	CCV	jet_250			27-MAR-2006 19:34	1.0	1.0			3	5	
053	085a053	SAMPLE	185586-013 S	111685	Water	27-MAR-2006 20:06	1.0	0.005			3		
054	085a054	SAMPLE	185586-014 S	111685	Water	27-MAR-2006 20:34	1.0	0.005			3		
055	085a055	SAMPLE	185632-009	111566	Water	27-MAR-2006 21:02	3.0	0.005			3		
056	085a056	X	ib			27-MAR-2006 21:30	1.0						
057	085a057	SAMPLE	185703-007 S	111694	Water	27-MAR-2006 21:58	1.0	0.005			3		
058	085a058	SAMPLE	185703-006 S	111694	Water	27-MAR-2006 22:26	1.0	0.005			3		
059	085a059	SAMPLE	185703-005 S	111694	Water	27-MAR-2006 22:54	1.0	0.005			3		
060	085a060	SAMPLE	185703-004 S	111694	Water	27-MAR-2006 23:22	1.0	0.005			3		
061	085a061	SAMPLE	185701-014 S	111694	Water	27-MAR-2006 23:50	1.0	0.005			3		
062	085a062	SAMPLE	185701-013 S	111694	Water	28-MAR-2006 00:18	1.0	0.005			3		

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Stds used: 1=S2971 2=S2755 3=S2885 4=S2871 5=S2432

SEQUENCE SUMMARY FOR 185586 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116123376 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 26-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
063	085a063	SAMPLE	185701-002 S	111694	Water	28-MAR-2006 00:47	1.0	0.005		3		
064	085a064	X	ib			28-MAR-2006 01:15	1.0					
065	085a065	CCV	mo_500			28-MAR-2006 01:43	1.0	1.0		3	1	
066	085a066	CCV	dsl_250			28-MAR-2006 02:11	1.0	1.0		3	2	
067	085a067	CCV	jet_250			28-MAR-2006 02:39	1.0	1.0		3	5	
068	085a068	X	ccv			28-MAR-2006 03:08	1.0				1	
069	085a069	X	ccv			28-MAR-2006 03:36	1.0				2	
070	085a070	SAMPLE	185701-003 S	111694	Water	28-MAR-2006 04:04	1.0	0.005	1	3		1:HXCS=152.907
071	085a071	SAMPLE	185701-004 S	111694	Water	28-MAR-2006 04:32	1.0	0.005	1	3		1:HXCS=96.7808
072	085a072	SAMPLE	185701-005 S	111694	Water	28-MAR-2006 05:00	1.0	0.005		3		
073	085a073	SAMPLE	185701-006 S	111694	Water	28-MAR-2006 05:29	1.0	0.005		3		
074	085a074	SAMPLE	185701-007 S	111694	Water	28-MAR-2006 05:57	1.0	0.005		3		
075	085a075	SAMPLE	185701-008 S	111694	Water	28-MAR-2006 06:25	1.0	0.005		3		
076	085a076	SAMPLE	185701-009 S	111694	Water	28-MAR-2006 06:53	1.0	0.005		3		
077	085a077	SAMPLE	185701-010 S	111694	Water	28-MAR-2006 07:21	1.0	0.005		3		
078	085a078	SAMPLE	185701-012 S	111694	Water	28-MAR-2006 07:50	1.0	0.005		3		
079	085a079	X	ib			28-MAR-2006 08:18	1.0					
080	085a080	CCV	mo_500			28-MAR-2006 08:46	1.0	1.0		3	1	
081	085a081	CCV	dsl_1000			28-MAR-2006 09:14	1.0	1.0		3	3	

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Stds used: 1=S2971 2=S2755 3=S2885 4=S2871 5=S2432

SEQUENCE SUMMARY FOR 185586 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166123373 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 26-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	085b001	X	primer			26-MAR-2006 16:13	1.0					
002	085b002	X	ib			26-MAR-2006 16:41	1.0					
003	085b003	CCV	dsl_500			26-MAR-2006 17:08	1.0	1.0		3	1	
004	085b004	CCV	mo_500			26-MAR-2006 17:35	1.0	1.0	2	3	2	
005	085b005	SAMPLE	185558-001 S	111662	Water	26-MAR-2006 18:35	1.0	0.005		3		
006	085b006	SAMPLE	185558-002 S	111662	Water	26-MAR-2006 19:03	1.0	0.005		3		
007	085b007	SAMPLE	185558-003 S	111662	Water	26-MAR-2006 19:31	1.0	0.005		3		
008	085b008	SAMPLE	185558-004 S	111662	Water	26-MAR-2006 19:58	1.0	0.005		3		
009	085b009	SAMPLE	185558-005 S	111662	Water	26-MAR-2006 20:26	1.0	0.005		3		
010	085b010	SAMPLE	185558-006 S	111662	Water	26-MAR-2006 20:54	1.0	0.005		3		
011	085b011	SAMPLE	185558-007 S	111662	Water	26-MAR-2006 21:22	1.0	0.005		3		
012	085b012	SAMPLE	185558-008 S	111662	Water	26-MAR-2006 21:50	1.0	0.005		3		
013	085b013	SAMPLE	185558-009 S	111662	Water	26-MAR-2006 22:18	1.0	0.005		3		
014	085b014	SAMPLE	185558-011 S	111662	Water	26-MAR-2006 22:46	1.0	0.005		3		119
015	085b015	X	ib			26-MAR-2006 23:14	1.0					
016	085b016	CCV	dsl_1000			26-MAR-2006 23:41	1.0	1.0		3	3	
017	085b017	CCV	mo_500			27-MAR-2006 00:09	1.0	1.0	2	3	2	
018	085b018	X	ccv			27-MAR-2006 00:37	1.0				3	
019	085b019	SAMPLE	185562-003 S	111685	Water	27-MAR-2006 01:05	1.0	0.005		3		
020	085b020	SAMPLE	185558-022 S	111685	Water	27-MAR-2006 01:33	1.0	0.005		3		
021	085b021	SAMPLE	185558-023 S	111685	Water	27-MAR-2006 02:01	1.0	0.005		3		
022	085b022	SAMPLE	185558-024 S	111685	Water	27-MAR-2006 02:28	1.0	0.005		3		
023	085b023	SAMPLE	185558-025 S	111685	Water	27-MAR-2006 02:56	1.0	0.005		3		
024	085b024	SAMPLE	185558-026 S	111685	Water	27-MAR-2006 03:24	1.0	0.005		3		
025	085b025	SAMPLE	185558-027 S	111685	Water	27-MAR-2006 03:51	1.0	0.005		3		
026	085b026	SAMPLE	185695-001	111632	Soil	27-MAR-2006 04:19	2.0	0.1003		3	1:BUNKC:=5098.84	
027	085b027	SAMPLE	185695-002	111632	Soil	27-MAR-2006 04:47	3.0	0.0999		3	1:BUNKC:=6432.21	
028	085b028	SAMPLE	185695-003	111632	Soil	27-MAR-2006 05:14	10.0	0.09988		3	3:BUNKC:=11311.3	
029	085b029	X	ib			27-MAR-2006 05:42	1.0					
030	085b030	CCV	dsl_500			27-MAR-2006 06:09	1.0	1.0		3	1	

Stds used: 1=S2871 2=S2971 3=S2885 4=S2755
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 185586 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166123373 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 26-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
031	085b031	CCV	mo_500			27-MAR-2006 06:37	1.0	1.0	2	3	2	
032	085b032	X	ccv			27-MAR-2006 07:05	1.0				1	
033	085b033	BS	QC333045 S	111684	Water	27-MAR-2006 07:57	1.0	0.005		3		
034	085b034	BSD	QC333046 S	111684	Water	27-MAR-2006 08:25	1.0	0.005		3		
035	085b035	BLANK	QC333044 S	111684	Water	27-MAR-2006 08:53	1.0	0.005	8	3		
036	085b036	SAMPLE	185672-001 S	111684	Water	27-MAR-2006 09:21	1.0	0.005	2	3	sh	
037	085b037	SAMPLE	185672-002 S	111684	Water	27-MAR-2006 09:49	1.0	0.005	2	3	sh	
038	085b038	SAMPLE	185672-003 S	111684	Water	27-MAR-2006 10:16	1.0	0.005	2	3	sh	
039	085b039	SAMPLE	185672-004 S	111684	Water	27-MAR-2006 10:44	1.0	0.005	2	3	sh	
040	085b040	X	ib			27-MAR-2006 11:12	1.0					
041	085b041	CCV	dsl_1000			27-MAR-2006 11:41	1.0	1.0		3	3	
042	085b042	CCV	mo_500			27-MAR-2006 12:08	1.0	1.0	2	3	2	
043	085b043	SAMPLE	185749-001	111632	Soil	27-MAR-2006 12:43	5.0	0.09905	1	3		1:BUNKC:=7070.75
044	085b044	X	ib			27-MAR-2006 14:21	1.0					
045	085b045	LCS	QC333051 S	111686	Water	27-MAR-2006 14:49	1.0	0.005		3		120
046	085b046	BLANK	QC333050 S	111686	Water	27-MAR-2006 15:16	1.0	0.005		3		
047	085b047	MS	QC333052 S	111686	Water	27-MAR-2006 15:44	1.0	0.005		3		
048	085b048	MSD	QC333053 S	111686	Water	27-MAR-2006 16:12	1.0	0.005		3		
049	085b049	MSS	185586-015 S	111686	Water	27-MAR-2006 16:54	1.0	0.005	8	3		
050	085b050	SAMPLE	185586-016 S	111686	Water	27-MAR-2006 17:22	1.0	0.005		3		
051	085b051	SAMPLE	185586-017 S	111686	Water	27-MAR-2006 17:49	1.0	0.005		3		
052	085b052	SAMPLE	185586-018 S	111686	Water	27-MAR-2006 18:17	1.0	0.005		3		
053	085b053	SAMPLE	185586-019 S	111686	Water	27-MAR-2006 18:45	1.0	0.005		3		
054	085b054	CCV	dsl_250			27-MAR-2006 19:12	1.0	1.0		3	4	
055	085b055	CCV	mo_500			27-MAR-2006 19:40	1.0	1.0	2	3	2	
056	085b056	SAMPLE	185586-008 S	111685	Water	27-MAR-2006 20:11	1.0	0.005		3		
057	085b057	SAMPLE	185586-009 S	111685	Water	27-MAR-2006 20:39	1.0	0.005		3		
058	085b058	SAMPLE	185586-010 S	111685	Water	27-MAR-2006 21:06	1.0	0.005		3		
059	085b059	SAMPLE	185586-011 S	111685	Water	27-MAR-2006 21:34	1.0	0.005		3		
060	085b060	X	ib			27-MAR-2006 22:02	1.0					

Stds used: 1=S2871 2=S2971 3=S2885 4=S2755
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 185586 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166123373 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 26-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
061	085b061	BS	QC333085 S	111695	Water	27-MAR-2006 22:30	1.0	0.005		3		
062	085b062	BSD	QC333086 S	111695	Water	27-MAR-2006 22:58	1.0	0.005		3		
063	085b063	BLANK	QC333084 S	111695	Water	27-MAR-2006 23:25	1.0	0.005	8	3		
064	085b064	SAMPLE	185602-016	111695	Water	27-MAR-2006 23:53	1.0	0.005		3		
065	085b065	SAMPLE	185602-020	111695	Water	28-MAR-2006 00:21	1.0	0.005		3		
066	085b066	SAMPLE	185602-024	111695	Water	28-MAR-2006 00:49	1.0	0.005		3		
067	085b067	X	dsl_250			28-MAR-2006 01:17	1.0	1.0	7	3	4	
068	085b068	CCV	mo_500			28-MAR-2006 01:45	1.0	1.0	2	3	2	
069	085b069	CCV	dsl_250			28-MAR-2006 02:13	1.0	1.0		3	4	
070	085b070	X	ccv			28-MAR-2006 02:41	1.0				2	
071	085b071	BS	QC333082 S	111694	Water	28-MAR-2006 03:09	1.0	0.005		3		
072	085b072	BSD	QC333083 S	111694	Water	28-MAR-2006 03:37	1.0	0.005		3		
073	085b073	BLANK	QC333081 S	111694	Water	28-MAR-2006 04:05	1.0	0.005	8	3		
074	085b074	SAMPLE	185602-028	111695	Water	28-MAR-2006 04:33	1.0	0.005		3		
075	085b075	SAMPLE	185703-001 S	111694	Water	28-MAR-2006 05:01	1.0	0.005		3		121
076	085b076	SAMPLE	185703-002 S	111694	Water	28-MAR-2006 05:29	1.0	0.005		3		
077	085b077	SAMPLE	185703-003 S	111694	Water	28-MAR-2006 05:57	1.0	0.005		3		
078	085b078	X	ib			28-MAR-2006 06:25	1.0					
079	085b079	CCV	dsl_500			28-MAR-2006 06:53	1.0	1.0		3	1	
080	085b080	CCV	mo_500			28-MAR-2006 07:21	1.0	1.0	2	3	2	
081	085b081	X	ccv			28-MAR-2006 07:49	1.0				1	
082	085b082	X	ccv			28-MAR-2006 08:17	1.0				2	
083	085b083	MSS	185761-001 S	111718	Soil	28-MAR-2006 09:13	1.0	0.1003	10	3		
084	085b084	CCV	dsl_1000			28-MAR-2006 10:27	1.0	1.0		3	3	
085	085b085	CCV	mo_500			28-MAR-2006 10:54	1.0	1.0	2	3	2	

Stds used: 1=S2871 2=S2971 3=S2885 4=S2755
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 185586 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176124307 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 27-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	086a001	X	Primer			27-MAR-2006 07:47	1.0						
002	086a002	X	ib			27-MAR-2006 08:14	1.0						
003	086a003	CCV	dsl_500			27-MAR-2006 08:43	1.0	1.0			3	1	
004	086a004	CCV	mo_500			27-MAR-2006 09:11	1.0	1.0			3	2	
005	086a005	SAMPLE	185693-003 S	111684	Water	27-MAR-2006 09:49	1.0	0.005			3		
006	086a006	SAMPLE	185674-001 S	111684	Water	27-MAR-2006 10:16	1.0	0.005			3		
007	086a007	SAMPLE	185674-002 S	111684	Water	27-MAR-2006 10:44	1.0	0.005			3		
008	086a008	SAMPLE	185674-003 S	111684	Water	27-MAR-2006 11:11	1.0	0.005			3		
009	086a009	X	dsl_1000			27-MAR-2006 11:39	1.0	1.0			3	3	
010	086a010	CCV	mo_500			27-MAR-2006 12:06	1.0	1.0			3	2	
011	086a011	CCV	dsl_1000			27-MAR-2006 12:35	1.0	1.0			3	3	
012	086a012	MSS	185681-001 S	111632	Miscel	27-MAR-2006 13:54	100.0	0.1005	7		3	2:BUNKC:=5354.52	
013	086a013	X	ib			27-MAR-2006 14:24	1.0						
014	086a014	SAMPLE	185586-020 S	111686	Water	27-MAR-2006 14:51	1.0	0.005			3		
015	086a015	SAMPLE	185586-021 S	111686	Water	27-MAR-2006 15:18	1.0	0.005			3		122
016	086a016	SAMPLE	185586-022 S	111686	Water	27-MAR-2006 15:45	1.0	0.005			3		
017	086a017	SAMPLE	185586-023 S	111686	Water	27-MAR-2006 16:13	1.0	0.005			3		
018	086a018	SAMPLE	185586-024 S	111686	Water	27-MAR-2006 16:54	1.0	0.005			3		
019	086a019	SAMPLE	185586-025 S	111686	Water	27-MAR-2006 17:21	1.0	0.005			3		
020	086a020	SAMPLE	185586-026 S	111686	Water	27-MAR-2006 17:48	1.0	0.005			3		
021	086a021	CCV	mo_500			27-MAR-2006 18:16	1.0	1.0			3	2	
022	086a022	CCV	dsl_250			27-MAR-2006 18:43	1.0	1.0			3	4	
023	086a023	LCS	QC333170 S	111718	Soil	27-MAR-2006 19:44	1.0	0.0993			3		
024	086a024	BLANK	QC333169 S	111718	Soil	27-MAR-2006 20:11	1.0	0.0999	7		3		
025	086a025	SAMPLE	185761-001 S	111718	Soil	27-MAR-2006 20:39	1.0	0.1003		1	3		
026	086a026	MS	QC333171 S	111718	Soil	27-MAR-2006 21:06	1.0	0.09909			3		
027	086a027	MSD	QC333172 S	111718	Soil	27-MAR-2006 21:33	1.0	0.1003			3		
028	086a028	X	ib			27-MAR-2006 22:00	1.0						
029	086a029	SAMPLE	185772-001 S	111718	Soil	27-MAR-2006 22:28	1.0	0.09964			3		
030	086a030	SAMPLE	185772-002 S	111718	Soil	27-MAR-2006 22:55	1.0	0.09913			3		
031	086a031	SAMPLE	185772-003 S	111718	Soil	27-MAR-2006 23:23	1.0	0.1005			3		

Stds used: 1=S2871 2=S2971 3=S2885 4=S2755 5=S2806

SEQUENCE SUMMARY FOR 185586 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176124307 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 27-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
032	086a032	SAMPLE	185772-004 S	111718	Soil	27-MAR-2006 23:50	1.0	0.0993	3		
033	086a033	SAMPLE	185768-001	111718	Soil	28-MAR-2006 00:17	1.0	0.1005	3		
034	086a034	X	ib			28-MAR-2006 00:45	1.0				
035	086a035	CCV	mo_500			28-MAR-2006 01:12	1.0	1.0	3	2	
036	086a036	CCV	dsl_500			28-MAR-2006 01:39	1.0	1.0	3	1	
037	086a037	X	ccv			28-MAR-2006 02:07	1.0			2	
038	086a038	X	ccv			28-MAR-2006 02:35	1.0			1	
039	086a039	SAMPLE	185772-005 S	111718	Soil	28-MAR-2006 03:02	1.0	0.1003	3		
040	086a040	SAMPLE	185772-006 S	111718	Soil	28-MAR-2006 03:30	1.0	0.09917	3		
041	086a041	SAMPLE	185710-001 S	111632	Soil	28-MAR-2006 03:57	1.0	0.0994	3		
042	086a042	SAMPLE	185602-014	111632	Soil	28-MAR-2006 04:24	1.0	0.1005	3		
043	086a043	SAMPLE	185602-018	111632	Soil	28-MAR-2006 04:52	1.0	0.09994	3		
044	086a044	SAMPLE	185602-022	111632	Soil	28-MAR-2006 05:19	1.0	0.1007	3		
045	086a045	SAMPLE	185602-026	111632	Soil	28-MAR-2006 05:47	1.0	0.0996	3		
046	086a046	SAMPLE	185586-001 S	111685	Water	28-MAR-2006 06:14	1.0	0.005	3		123
047	086a047	SAMPLE	185586-002 S	111685	Water	28-MAR-2006 06:41	1.0	0.005	3		
048	086a048	SAMPLE	185586-003 S	111685	Water	28-MAR-2006 07:09	1.0	0.005	3		
049	086a049	X	ib			28-MAR-2006 07:36	1.0				
050	086a050	CCV	mo_500			28-MAR-2006 08:03	1.0	1.0	3	2	
051	086a051	CCV	dsl_1000			28-MAR-2006 08:31	1.0	1.0	3	3	
052	086a052	X	ccv			28-MAR-2006 08:58	1.0			2	
053	086a053	X	ccv			28-MAR-2006 09:26	1.0			3	
054	086a054	SAMPLE	185701-003 S	111694	Water	28-MAR-2006 10:21	1.0	0.005	3		
055	086a055	SAMPLE	185701-004 S	111694	Water	28-MAR-2006 10:48	1.0	0.005	3		
056	086a056	CCV	ker_250			28-MAR-2006 11:16	1.0	1.0	3	5	
057	086a057	SAMPLE	185750-002	111632	Soil	28-MAR-2006 11:43	1.0	0.1006	3		
058	086a058	CCV	mo_500			28-MAR-2006 12:24	1.0	1.0	3	2	
059	086a059	CCV	dsl_250			28-MAR-2006 12:51	1.0	1.0	3	4	
060	086a060	CCV	ker_250			28-MAR-2006 13:18	1.0	1.0	3	5	

Stds used: 1=S2871 2=S2971 3=S2885 4=S2755 5=S2806

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185586 TEHM Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	MO:2	HXCS	
185586-001	GC17A	03/28/06 06:14	1.0	+	+	+	
185586-002	GC17A	03/28/06 06:41	1.0	+	+	+	
185586-003	GC17A	03/28/06 07:09	1.0	+	+	+	
185586-008	GC15B	03/27/06 20:11	1.0	+	+	+	
185586-009	GC15B	03/27/06 20:39	1.0	+	+	+	
185586-010	GC15B	03/27/06 21:06	1.0	+	+	+	
185586-011	GC15B	03/27/06 21:34	1.0	+	+	+	
185586-013	GC11A	03/27/06 20:06	1.0	+	+	+	
185586-014	GC11A	03/27/06 20:34	1.0	+	+	+	
185586-015	GC15B	03/27/06 16:54	1.0	+	+	+	
185586-016	GC15B	03/27/06 17:22	1.0	+	+	+	
185586-017	GC15B	03/27/06 17:49	1.0	+	+	+	
185586-018	GC15B	03/27/06 18:17	1.0	+	+	+	
185586-019	GC15B	03/27/06 18:45	1.0	+	+	+	
185586-020	GC17A	03/27/06 14:51	1.0	+	+	+	
185586-021	GC17A	03/27/06 15:18	1.0	+	+	+	
185586-022	GC17A	03/27/06 15:45	1.0	+	+	+	
185586-023	GC17A	03/27/06 16:13	1.0	+	+	+	
185586-024	GC17A	03/27/06 16:54	1.0	+	+	+	
185586-025	GC17A	03/27/06 17:21	1.0	+	+	+	
185586-026	GC17A	03/27/06 17:48	1.0	+	+	+	
QC333047	GC11A	03/27/06 02:19	1.0	+	+	+	
QC333048	GC11A	03/27/06 01:23	1.0	+		+	

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185586 TEHM Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	MO:2	HXCS	
QC333049	GC11A	03/27/06 01:51	1.0	+		+	
QC333050	GC15B	03/27/06 15:16	1.0	+	+	+	
QC333051	GC15B	03/27/06 14:49	1.0	+		+	
QC333052	GC15B	03/27/06 15:44	1.0	+		+	
QC333053	GC15B	03/27/06 16:12	1.0	+		+	

Curtis & Tompkins Laboratories **Sample Preparation Summary** **26-MAR-2006 17:22**

Batch Number : 111685
Date Extracted: 25-MAR-2006
Extracted by : Kevin Riley
Prep Method : 3520C

Analysis : TEHM
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2903C
Spike #2 ID : S2826A
Spike #3 ID :
SOP Version :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185558-020		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185558-021		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
185558-022		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
185558-023		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
185558-024		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
185558-025		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
185558-026		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185558-027		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
185562-001		Blasland, Bouck & Lee	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
185562-002		Blasland, Bouck & Lee	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185562-003		Blasland, Bouck & Lee	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185586-001		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185586-002		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185586-003		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185586-008		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185586-009		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185586-010		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185586-011		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185586-013		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185586-014		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1		.5	0		TEHM	3630	
QC333047	BLANK		Water	500	mL	2.5	0.005000	1		.5	.5		TEHM	3630	
QC333048	BS		Water	500	mL	2.5	0.005000	1		.5	.5		TEHM	3630	
QC333049	BSD		Water	500	mL	2.5	0.005000	1							

Prep Chemist: JDM for KR Reviewed By: [illegible] Date: 3/27/06

Relinquished By: [illegible] Received By: [illegible] Date: 3/27/06

Curtis & Tompkins, Ltd

TEH WATER PREP LOG

LIMS Batch No: 111685
LIMS Analysis: TEH/M
Extracted by: KR
Date Extracted: 25 MAR 06

Extraction Method:
KR 25 MAR 06 ☑ mod. EPA 3510 sep. funnel
☑ mod. EPA 3520 cont. L/L
☐ _____

Cleanup Method (if needed):
☑ EPA 3630 Silica Gel
☐ Other _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185558-020:L	500	7	2.5	X	
21:G		8			
22:L					
23:G					
24:G					PINK
25:G		7			
26:L		8			
27:		8			
185562-001:B		7			
2:D					
3:C					
185586-001:M					
2:					
3:					
8:G					
9:K					
10:G					
11:G					
13:D					
14:D		NA			
MB QC333047					
BS 48					
BSD 49					

3/26/06

0.5 mL of TEH_SURR was added to all samples
0.5 mL of TEH_SP was added to all spikes
pH of all samples adjusted to pH ≤ 2 with H_2SO_4
☑ Samples were continually extracted about 450 mL of CH_2Cl_2
Extraction Start Time: 1810
Extraction End Time: 1210
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4
Concentrated to volumes as noted above

Mfg & Lot# / LIMS # / Time	Date/ Initials
S2903C	3/25/06 KR
S2826A	
JTB B24063	
EM46060	
1810	
1210	JM 3/26/06
N/A	
EM45 185532	
/	

Initials
KR
26/06
JM

25 MAR 06
Extraction Chemist Date

Continued from Page _____
Continued on Page _____

3/26/06
Reviewed by Date

Curtis & Tompkins, Ltd.

Silica Gel Cleanup

EPA 3630c

Prep Chemist: JM
Cleanup Date: 3/26/06

Benchbook # **BK 2297**
Page 2

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
QC333047 MB	111685	1.0	1.0	
48 BS				
49 BSD				
1855576·020				
·021				
·022				
·023				
·024				
·025				
·026				
·027				
1855572·001				
·002				
·003				
1855560·001				
·002				
·003				
·008				
·009				
·010				
·011				
·013				
·014				

3/26/06

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ____ g columns	N/A	JM 3/26/06
☑ Extracts were cleaned up using 1.0 g cartridges	SP7028	
Extracts were eluted with 2.0 mL CH_2Cl_2	EM4L060	
Concentrated to volumes as noted above	✓	

3/26/06
Extraction Chemist / Date

Continued from page ____
Continued on page ____

3/27/06
Reviewed by / Date

Curtis & Tompkins Laboratories **Sample Preparation Summary** **26-MAR-2006 15:51**

Batch Number : 111686
Date Extracted: 25-MAR-2006
Extracted by : Kevin Riley
Prep Method : 3520C

Analysis : TEHM
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2903C
Spike #2 ID : S2826C
Spike #3 ID :
SOP Version :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185586-015		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	mss
185586-016		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185586-017		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185586-018		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185586-019		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185586-020		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185586-021		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185586-022		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185586-023		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185586-024		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185586-025		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
185586-026		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630	
QC333050	BLANK		Water	500	mL	2.5	0.005000	1		.5	0		TEHM	3630	
QC333051	LCS		Water	500	mL	2.5	0.005000	1		.5	.5		TEHM	3630	
QC333052	MS	of 185586-015	Water	500	mL	2.5	0.005000	1	7	.5	.5		TEHM	3630	
QC333053	MSD	of 185586-015	Water	500	mL	2.5	0.005000	1	7	.5	.5		TEHM	3630	

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Prep Chemist: JOM for KR

Reviewed By: JOM 3/27/06 Date: 3/27/06

Relinquished By:

Received By: Date: 3/28/06

Curtis & Tompkins, Ltd

TEH WATER PREP LOG

BK2279

Page 30

LIMS Batch No: 111686
LIMS Analysis: TEHM
Extracted by: KR
Date Extracted: 25 MAR 06

Extraction Method:
- ☐ mod. EPA 3510 sep. funnel
- ☑ mod. EPA 3520 cont. L/L
- ☐ _____

Cleanup Method (if needed):
- ☑ EPA 3630 Silica Gel
- ☐ Other _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185586-015:U	500	7	2.5	X	MSS
16:G					
17:L					
18					
19					
20					
21					
22					
23					
24:J					
25:L					
26:L					
MB QC33050		N/A			
LCS 051					
MS 052 S		7			
MSD 053 S		7			

3/26/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.5 mL of TEH_SURR was added to all samples	S29036	3/25/06 KR
0.5 mL of TEH_SP was added to all spikes	S2826C	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	JTB B24063	
☑ Samples were continually extracted about 450 mL of CH_2Cl_2	EM46060	
Extraction Start Time:	1905	
Extraction End Time:	1305	JM 3/26
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	N/A	SFL 3/26/06
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM451BE32	
Concentrated to volumes as noted above		

K Rey 25 MAR 06
Extraction Chemist Date

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Contined from Page —
Continued on Page —

Jessica Nee 3/27/06
Reviewed by Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: SHO
Cleanup Date: 3/27/06

Benchbook # **BK 2297**
Page 3

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
185586-015	111686	1.0	1.0	MSS
-016				
-017				
-018				
-019				
-020				
-021				
-022				
-023				
-024				
-025				
-026				
MB QC 333050				
SHO 3/27 ~~BS~~ LCS 57				
~~BSD~~ MS 52				
MSD 53				
				SHO 3/27/06

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ____g columns	NA	SHO 3/27/06
☑ Extracts were cleaned up using 1.0 g cartridges	SP 7028	
Extracts were eluted with 4.0 mL CH_2Cl_2	EM 460100	
Concentrated to volumes as noted above	✓	

3/27/06
Extraction Chemist / Date

Continued from page #
Continued on page #

3/27/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water
As of 04/18/06

Analyte	Units	GC11A	GC13B	GC15B	GC17A
JP-5 C10-C16	ug/L	17	16	7.9	5.4
Jet Fuel A C10-C16	ug/L	14	30	24	33
Diesel C10-C20	ug/L		16	13	19
Diesel C10-C22	ug/L	21	18	19	27
Diesel C10-C28	ug/L	18	11	22	37
Diesel C10-C24	ug/L	21	15	18	33
Diesel C12-C24	ug/L	20	13	20	33
Diesel C12-C32	ug/L	22	14	25	23
Diesel C12-C36	ug/L	13	17		
Diesel C12-C28	ug/L		31		
Diesel C12-C22	ug/L	19	17	20	25
Motor Oil C20-C36	ug/L	40	50	29	53
Motor Oil C28-C36	ug/L	42	55	33	76
Motor Oil C24-C36	ug/L	42	55	33	76
Motor Oil C22-C32	ug/L	36	51	21	50
Motor Oil C22-C36	ug/L	41	52	30	51
Hexacosane	ug/L	4.5	3.4	4.2	3.1

VOLATILE ORGANIC COMPOUNDS

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	600GW102	Batch#:	111492
Lab ID:	185586-001	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	106	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	107	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	600GW103	Batch#:	111492
Lab ID:	185586-002	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	103	76-114
Toluene-d8	98	88-110
Bromofluorobenzene	105	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	600GW104	Batch#:	111492
Lab ID:	185586-003	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	105	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	108	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	BHWGW04	Batch#:	111492
Lab ID:	185586-004	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	103	76-114
Toluene-d8	98	88-110
Bromofluorobenzene	107	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	HWGW100	Batch#:	111492
Lab ID:	185586-005	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	3.0	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	106	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	104	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	HWGW101	Batch#:	111492
Lab ID:	185586-006	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	106	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	107	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	HWGW101RB04	Batch#:	111492
Lab ID:	185586-007	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	105	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	106	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	937GW15	Batch#:	111492
Lab ID:	185586-008	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	103	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	104	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DAEGW07	Batch#:	111492
Lab ID:	185586-009	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	106	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	107	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	TB0315063A	Batch#:	111491
Lab ID:	185586-012	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	125 *	76-114
Toluene-d8	104	88-110
Bromofluorobenzene	103	86-115

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	231GW09	Batch#:	111491
Lab ID:	185586-017	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	124 *	76-114
Toluene-d8	102	88-110
Bromofluorobenzene	101	86-115

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	231GW11	Batch#:	111493
Lab ID:	185586-018	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	108	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	105	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	231GW23	Batch#:	111493
Lab ID:	185586-019	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	110	80-120
1,2-Dichloroethane-d4	107	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	108	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	231GW25	Batch#:	111491
Lab ID:	185586-020	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	111	80-120
1,2-Dichloroethane-d4	121 *	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	110	86-115

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	231GW28	Batch#:	111491
Lab ID:	185586-021	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	2.4	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	111	80-120
1,2-Dichloroethane-d4	123 *	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	103	86-115

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	231GW27	Batch#:	111491
Lab ID:	185586-022	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	1.2	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-120
1,2-Dichloroethane-d4	124 *	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	103	86-115

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	231GW20	Batch#:	111491
Lab ID:	185586-023	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-120
1,2-Dichloroethane-d4	122 *	76-114
Toluene-d8	103	88-110
Bromofluorobenzene	106	86-115

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	231GW18	Batch#:	111491
Lab ID:	185586-024	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	0.6	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	123 *	76-114
Toluene-d8	103	88-110
Bromofluorobenzene	104	86-115

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	231GW17	Batch#:	111491
Lab ID:	185586-025	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	2.6	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-120
1,2-Dichloroethane-d4	123 *	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	106	86-115

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	231GW06	Batch#:	111491
Lab ID:	185586-026	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	110	80-120
1,2-Dichloroethane-d4	127 *	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	105	86-115

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332273	Batch#:	111491
Matrix:	Water	Analyzed:	03/21/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-120
1,2-Dichloroethane-d4	120 *	76-114
Toluene-d8	103	88-110
Bromofluorobenzene	100	86-115

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332276	Batch#:	111492
Matrix:	Water	Analyzed:	03/21/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-120
1,2-Dichloroethane-d4	101	76-114
Toluene-d8	98	88-110
Bromofluorobenzene	105	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332279	Batch#:	111493
Matrix:	Water	Analyzed:	03/21/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	105	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	107	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	111491
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Type: BS Lab ID: QC332271

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	25.78	103	65-135
Benzene	25.00	26.27	105	65-135
Trichloroethene	25.00	25.44	102	65-135
Toluene	25.00	26.16	105	65-135
Chlorobenzene	25.00	24.76	99	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	112	76-114
Toluene-d8	98	88-110
Bromofluorobenzene	91	86-115

Type: BSD Lab ID: QC332272

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	23.28	93	65-135	10	35
Benzene	25.00	25.08	100	65-135	5	35
Trichloroethene	25.00	23.57	94	65-135	8	35
Toluene	25.00	23.79	95	65-135	9	35
Chlorobenzene	25.00	23.26	93	65-135	6	35

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	114	76-114
Toluene-d8	102	88-110
Bromofluorobenzene	95	86-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	111492
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Type: BS Lab ID: QC332274

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	29.84	119	65-135
Benzene	25.00	26.72	107	65-135
Trichloroethene	25.00	28.78	115	65-135
Toluene	25.00	27.41	110	65-135
Chlorobenzene	25.00	27.35	109	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-120
1,2-Dichloroethane-d4	102	76-114
Toluene-d8	102	88-110
Bromofluorobenzene	97	86-115

Type: BSD Lab ID: QC332275

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	26.83	107	65-135	11	35
Benzene	25.00	24.41	98	65-135	9	35
Trichloroethene	25.00	25.72	103	65-135	11	35
Toluene	25.00	24.89	100	65-135	10	35
Chlorobenzene	25.00	24.86	99	65-135	10	35

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	101	76-114
Toluene-d8	88	88-110
Bromofluorobenzene	97	86-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	111493
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Type: BS Lab ID: QC332277

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	26.45	106	65-135
Benzene	25.00	25.00	100	65-135
Trichloroethene	25.00	25.99	104	65-135
Toluene	25.00	25.69	103	65-135
Chlorobenzene	25.00	25.20	101	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-120
1,2-Dichloroethane-d4	105	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	100	86-115

Type: BSD Lab ID: QC332278

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	25.13	101	65-135	5	35
Benzene	25.00	23.68	95	65-135	5	35
Trichloroethene	25.00	24.56	98	65-135	6	35
Toluene	25.00	24.51	98	65-135	5	35
Chlorobenzene	25.00	24.98	100	65-135	1	35

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-120
1,2-Dichloroethane-d4	101	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	101	86-115

RPD= Relative Percent Difference

8260/6850 W 1CAL

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\031706.b\ECH01.D

Date : 17-MAR-2006 14:33

Client ID: bfb tune std

Instrument: MSVOA05.i

Sample Info: BFB,S2327

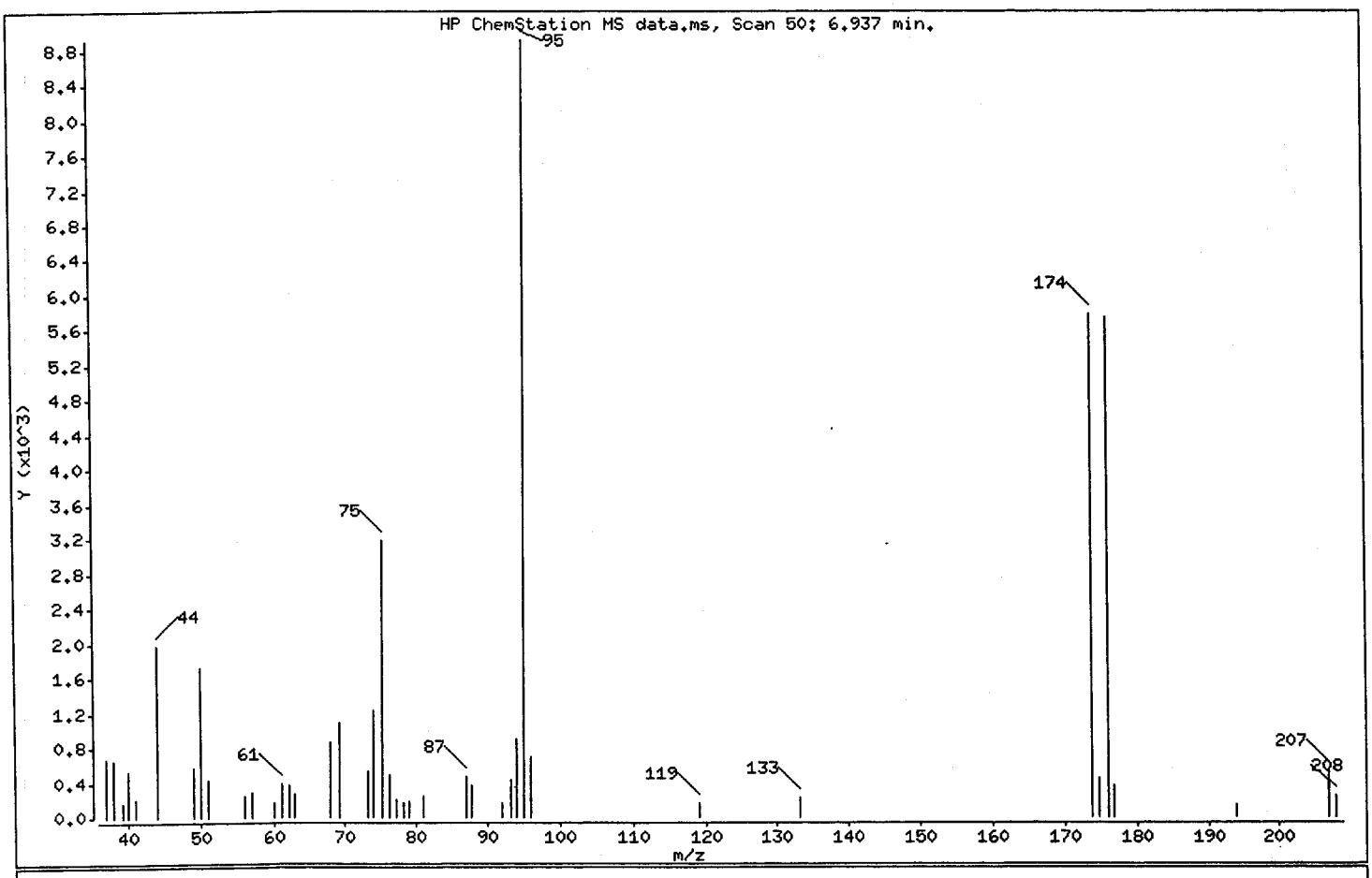
Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.46
75	30.00 - 60.00% of mass 95	35.62
96	5.00 - 9.00% of mass 95	7.76
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	65.00
175	5.00 - 9.00% of mass 174	5.06 (7.78)
176	95.01 - 100.99% of mass 174	64.46 (99.17)
177	5.00 - 9.00% of mass 176	4.15 (6.44)

m 3/20/06

a 03/20/02

8260 /GA50K w ICV

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032006.b\ECK02.D

Date : 20-MAR-2006 08:24

Client ID: bfb tune std

Instrument: MSVOA05.i

Sample Info: BFB,S2327

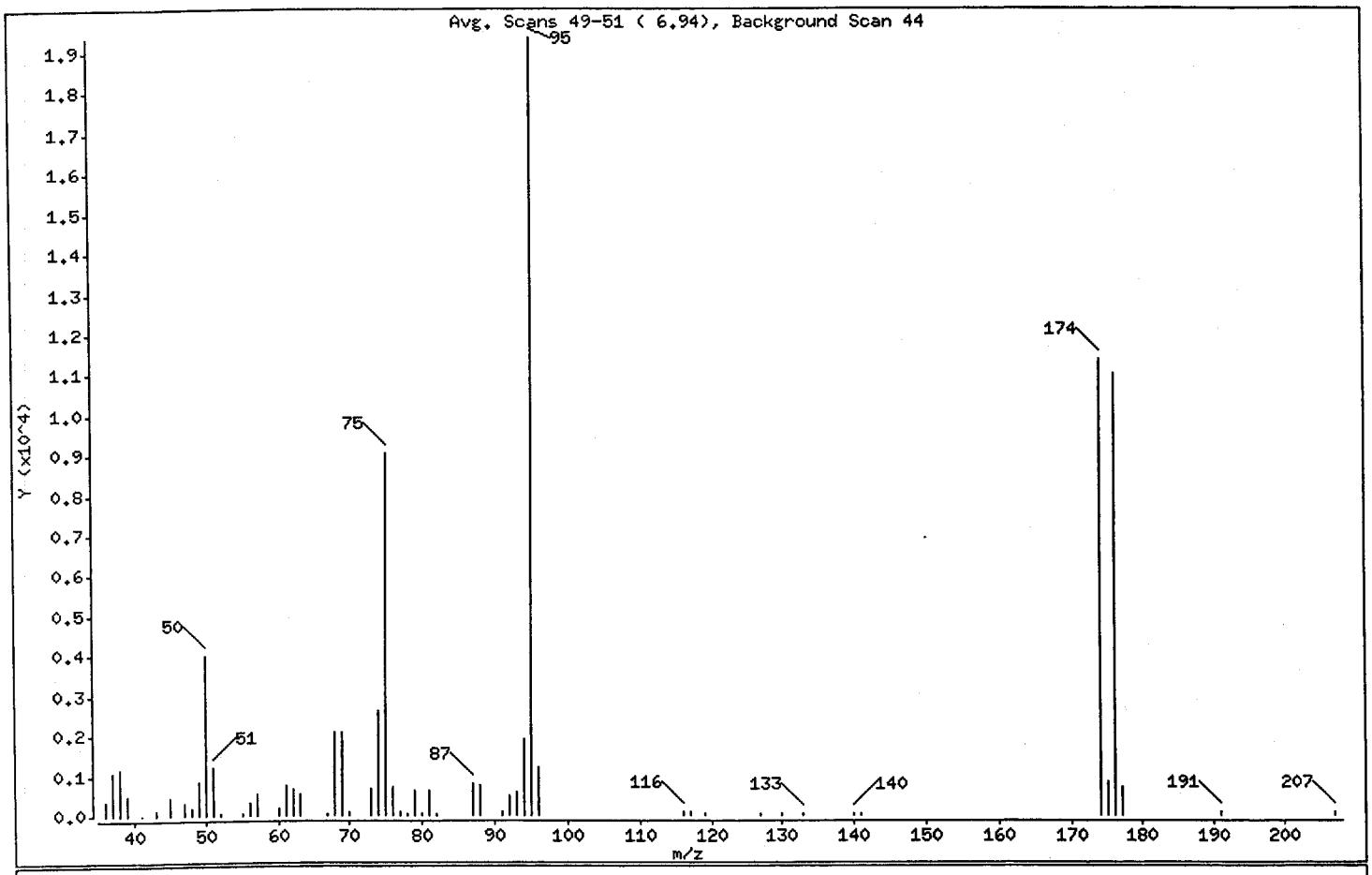
Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.76
75	30.00 - 60.00% of mass 95	46.68
96	5.00 - 9.00% of mass 95	6.27
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	58.67
175	5.00 - 9.00% of mass 174	4.44 (7.56)
176	95.01 - 100.99% of mass 174	56.81 (96.84)
177	5.00 - 9.00% of mass 176	3.63 (6.39)

12/3/20/06

03/20/06

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032106.b\ECL02.D

Date : 21-MAR-2006 08:12

Client ID: bfb tune std

Instrument: MSVOA05.i

Sample Info: BFB,S2327

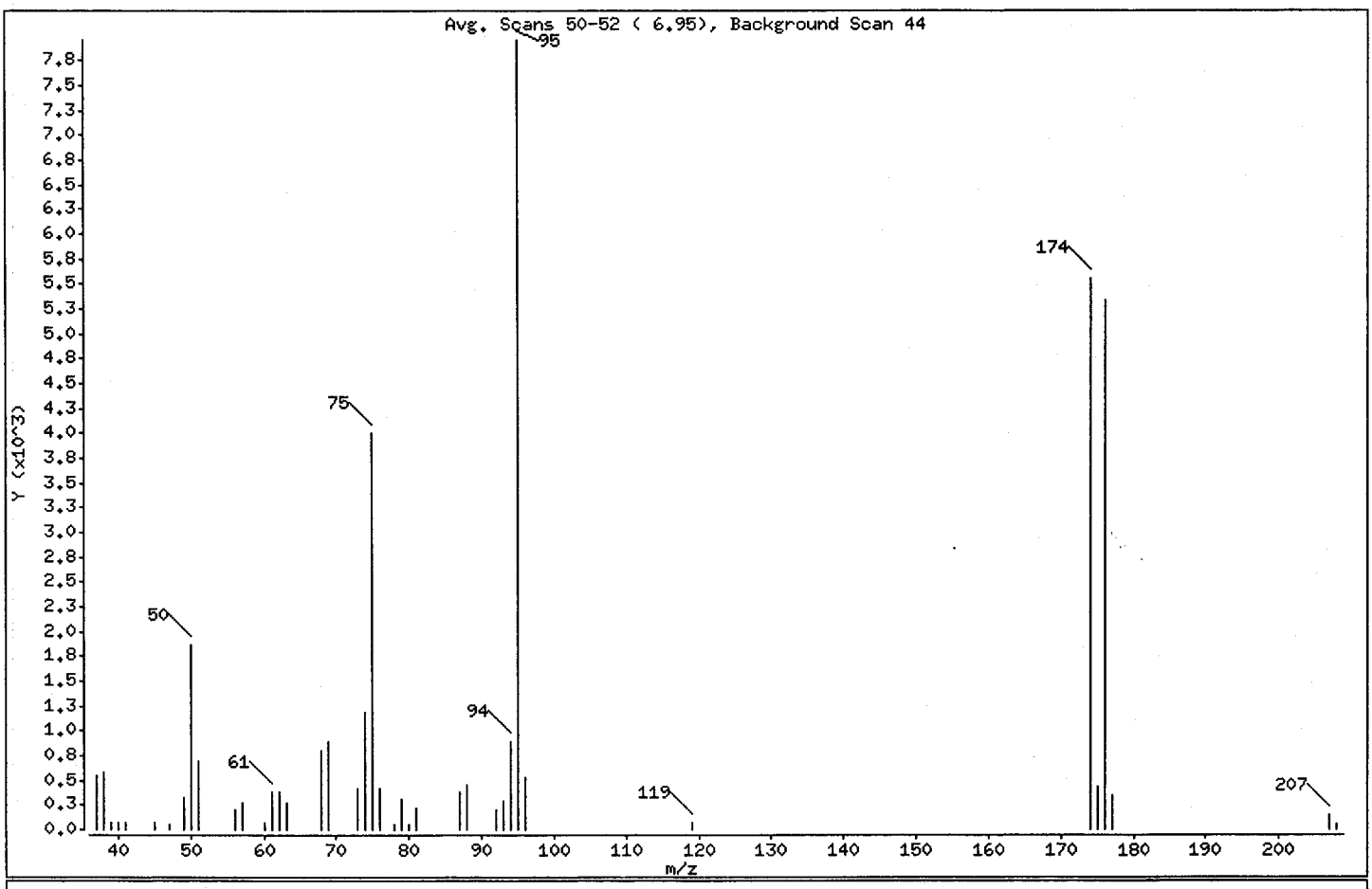
Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.53
75	30.00 - 60.00% of mass 95	50.40
96	5.00 - 9.00% of mass 95	6.71
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	69.96
175	5.00 - 9.00% of mass 174	5.52 (7.89)
176	95.01 - 100.99% of mass 174	67.12 (95.94)
177	5.00 - 9.00% of mass 176	4.26 (6.35)

PV 3/22/06

03/22/06

8260/624SDA w 1CA

Data File: \\Gcmsserver\DD\chem\MSVOA06.i\030906.b\FC911.D

Date : 09-MAR-2006 13:59

Client ID: bfb tune std

Instrument: MSVOA06.i

Sample Info: BFB,S2327

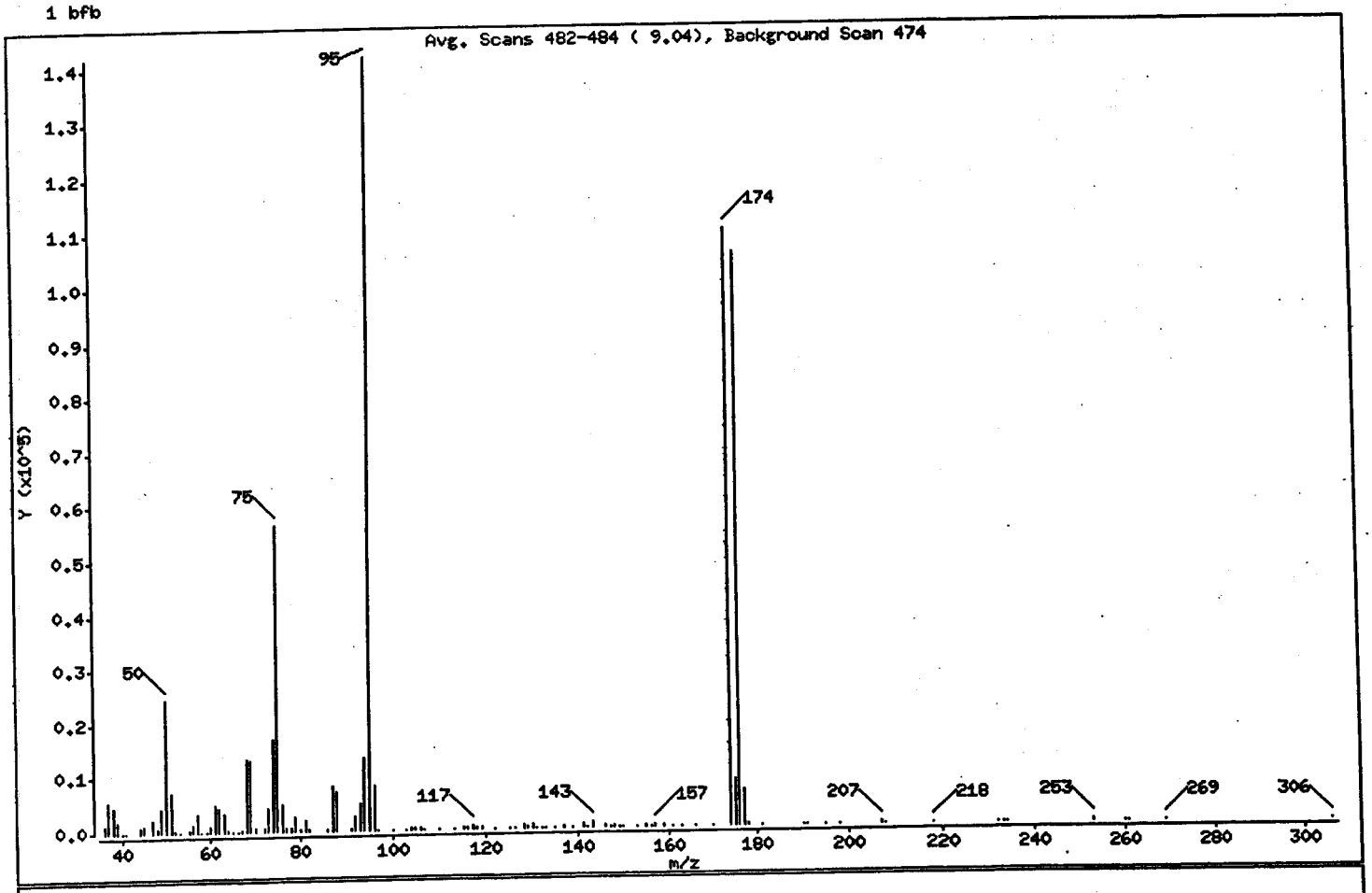
Operator: BO

Volume Injected (uL): 1.0

Column diameter: 2.00

Column phase:

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.25
75	30.00 - 60.00% of mass 95	39.81
96	5.00 - 9.00% of mass 95	5.74
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	77.30
175	5.00 - 9.00% of mass 174	5.89 (7.62)
176	95.01 - 100.99% of mass 174	74.45 (96.32)
177	5.00 - 9.00% of mass 176	4.70 (6.32)

R 3/10/06

3/13/06

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\032106.b\FCL02.D

Date : 21-MAR-2006 08:26

Client ID: bfb tune std

Instrument: MSVOA06.i

Sample Info: BFB,S2327

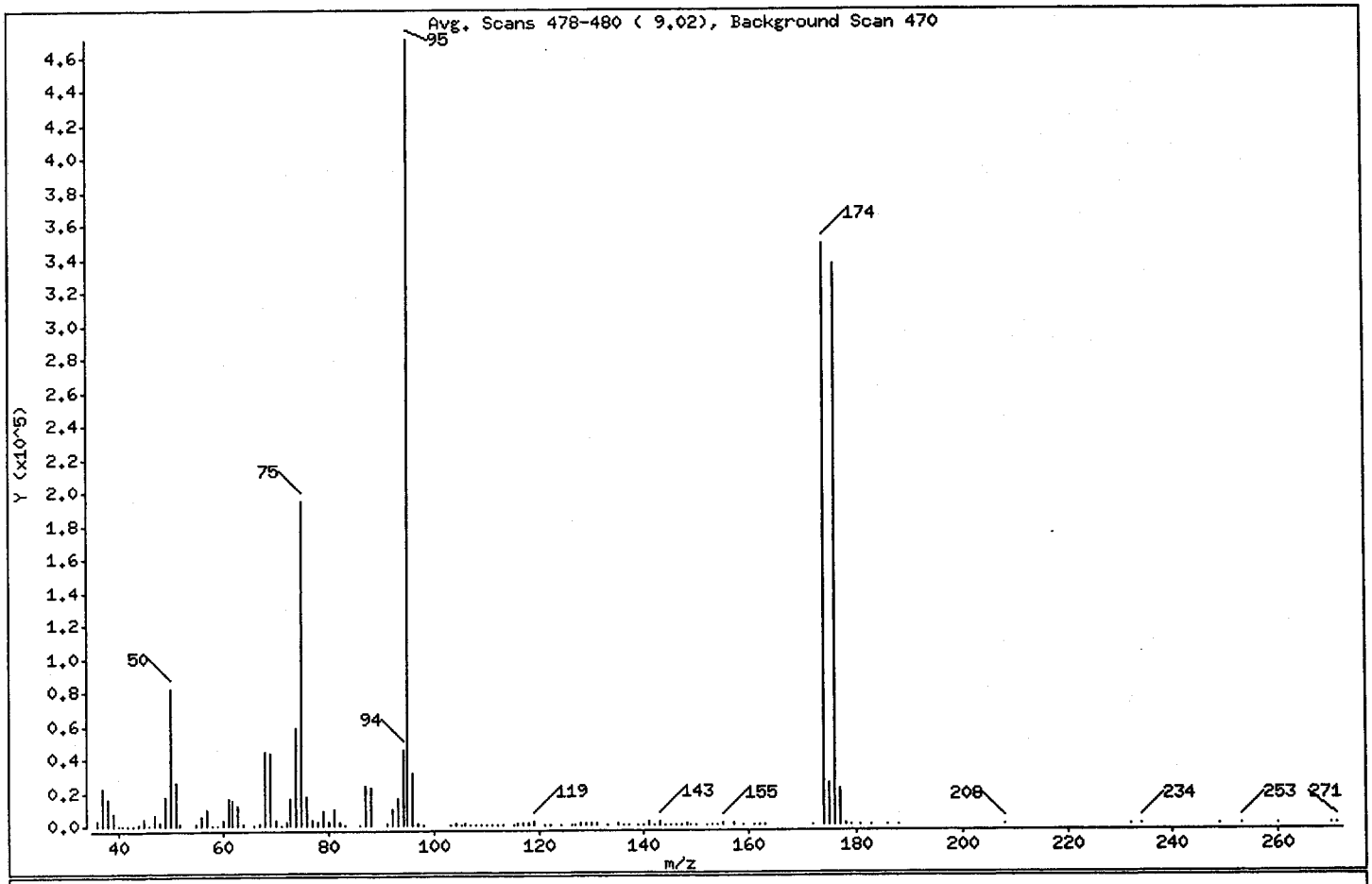
Volume Injected (uL): 1.0

Operator: BO

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.57
75	30.00 - 60.00% of mass 95	41.39
96	5.00 - 9.00% of mass 95	6.65
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	73.92
175	5.00 - 9.00% of mass 174	5.17 (7.00)
176	95.01 - 100.99% of mass 174	71.50 (96.72)
177	5.00 - 9.00% of mass 176	4.51 (6.31)

pv 3/22/06

a 3/22/06

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\032106.b\FCL06.D

Date : 21-MAR-2006 10:42

Client ID: bfb tune std

Instrument: MSVOA06.i

Sample Info: BFB,S2327

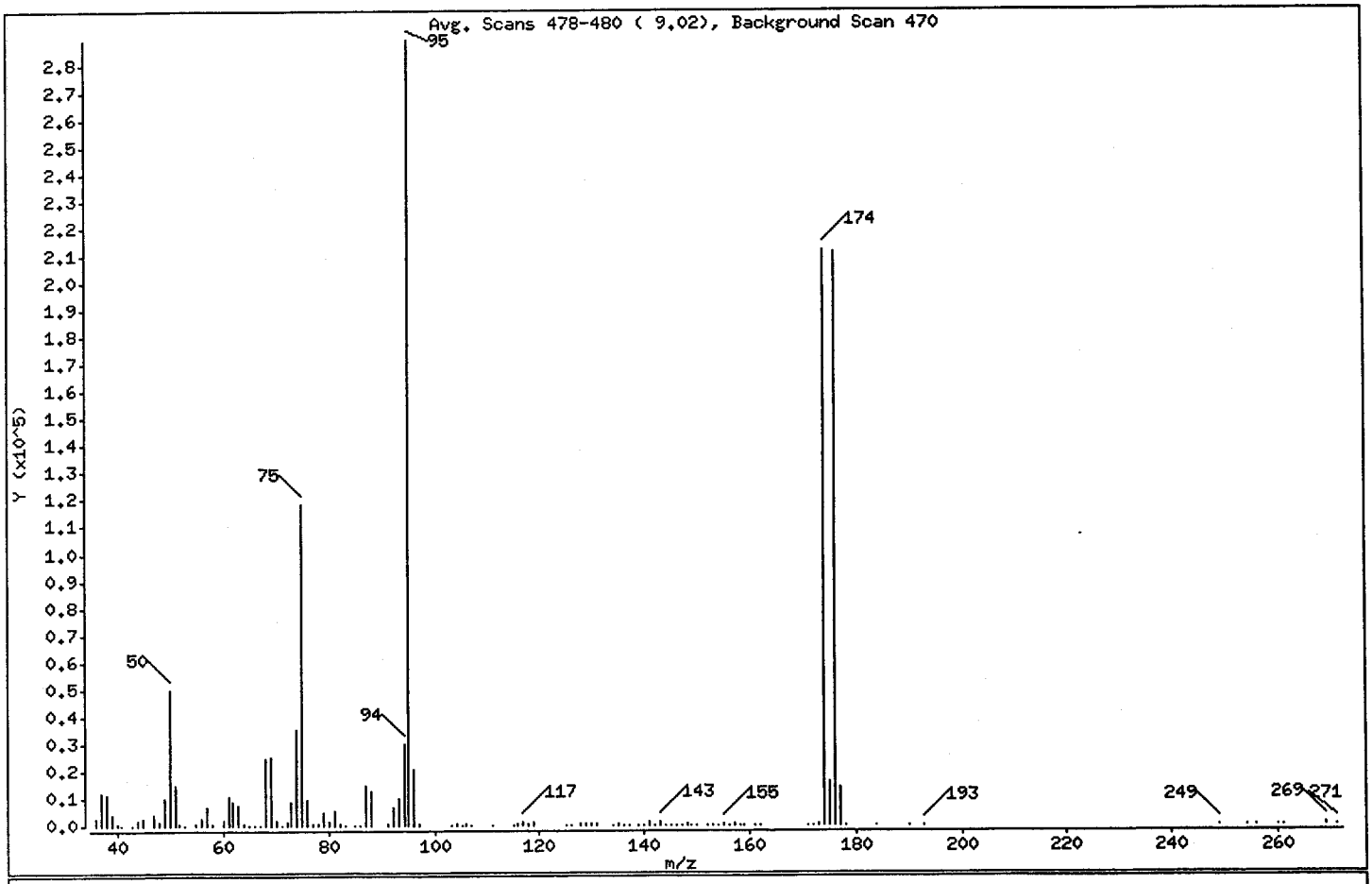
Volume Injected (uL): 1.0

Operator: BO

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.34
75	30.00 - 60.00% of mass 95	41.02
96	5.00 - 9.00% of mass 95	7.03
173	Less than 2.00% of mass 174	0.14 (0.19)
174	50.00 - 99.99% of mass 95	73.32
175	5.00 - 9.00% of mass 174	5.57 (7.60)
176	95.01 - 100.99% of mass 174	73.11 (99.72)
177	5.00 - 9.00% of mass 176	4.86 (6.65)

pr 3/22/06

Q 03/22/06

8260 / 6450c w 1c7c

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH06.D

Date : 17-MAR-2006 12:08

Client ID: bfb tune std

Instrument: MSVOA09.i

Sample Info: BFB,S2327

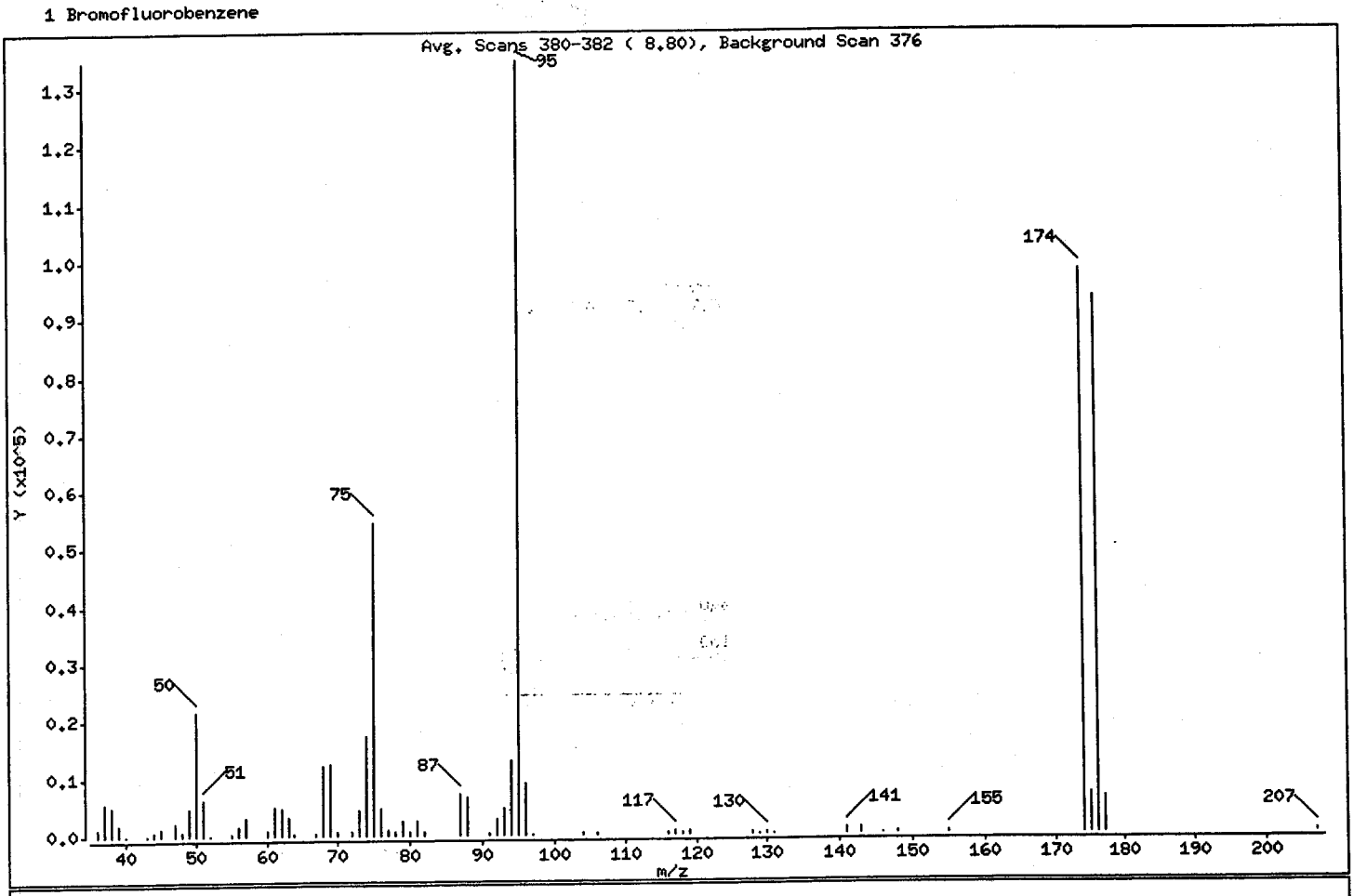
Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.06
75	30.00 - 60.00% of mass 95	40.39
96	5.00 - 9.00% of mass 95	6.77
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	72.78
175	5.00 - 9.00% of mass 174	5.12 (7.03)
176	95.01 - 100.99% of mass 174	69.49 (95.48)
177	5.00 - 9.00% of mass 176	4.49 (6.46)

pm 3/20/06

03/20/06

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\032106.b\ICL02.D

Date : 21-MAR-2006 08:12

Client ID: bfb tune std

Instrument: MSVOA09.i

Sample Info: BFB,S2327

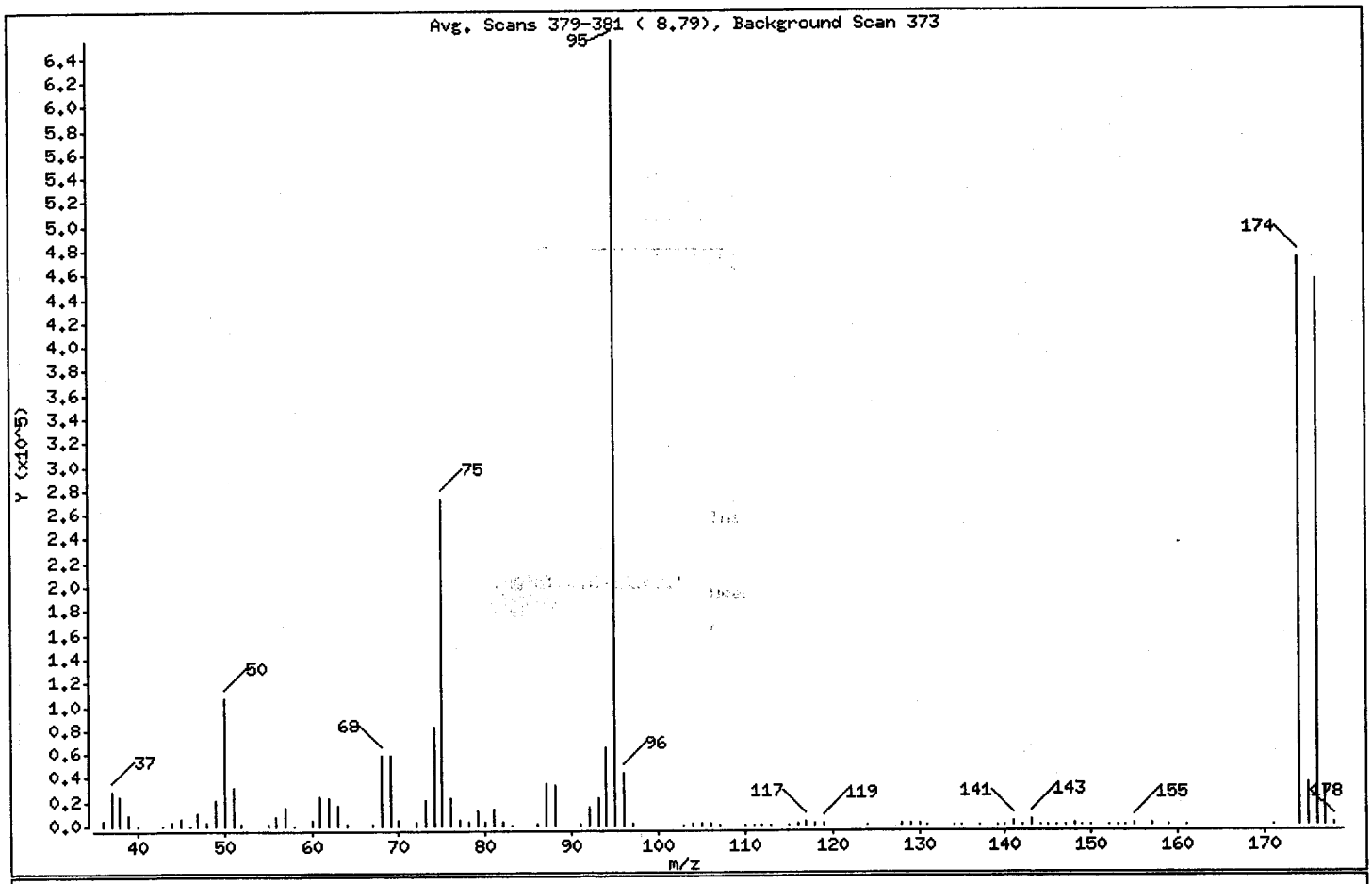
Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.28
75	30.00 - 60.00% of mass 95	41.60
96	5.00 - 9.00% of mass 95	6.69
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	72.18
175	5.00 - 9.00% of mass 174	5.27 (7.31)
176	95.01 - 100.99% of mass 174	69.50 (96.28)
177	5.00 - 9.00% of mass 176	4.51 (6.49)

pr 3/22/06

03/22/06

S260/GASOP w ICAL

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 8260B

Inst : MSVOA05
Calnum : 446110313001
Units : ug/L

Name : 826GOX5
Date : 17-MAR-2006 17:10
X Axis : R

Type : WATER

Inj Vol: 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	ech04	446110313004	0.25/0.5PPB	17-MAR-2006 17:10	S2783 (1000000X), S2844 (2000000X), S2410 (2000000X), S2707 (5000X)
L2	ech05	446110313005	0.5/1PPB	17-MAR-2006 17:41	S2783 (500000X), S2844 (1000000X), S2410 (1000000X), S2707 (5000X)
L3	ech06	446110313006	2PPB	17-MAR-2006 18:13	S2783 (250000X), S2844 (250000X), S2410 (500000X), S2707 (5000X)
L4	ech07	446110313007	5PPB	17-MAR-2006 18:45	S2783 (100000X), S2844 (100000X), S2410 (200000X), S2707 (5000X)
L5	ech08	446110313008	10PPB	17-MAR-2006 19:16	S2783 (50000X), S2844 (50000X), S2410 (100000X), S2707 (5000X)
L6	ech09	446110313009	20PPB	17-MAR-2006 19:48	S2783 (25000X), S2844 (25000X), S2410 (50000X), S2707 (5000X)
L7	ech10	446110313010	50PPB	17-MAR-2006 20:20	S2783 (10000X), S2844 (10000X), S2410 (20000X), S2707 (5000X)
L8	ech11	446110313011	75PPB	17-MAR-2006 20:52	S2783 (6667X), S2844 (6667X), S2410 (13330X), S2707 (5000X)
L9	ech12	446110313012	100PPB	17-MAR-2006 21:23	S2783 (5000X), S2844 (5000X), S2410 (10000X), S2707 (5000X)

* ICAL - cyclohexane fails %RSD
- high pt dropped for MAPA
- 2 high pts dropped for Hexachlorobutadiene
* ICV - cyclohexane, 1,1-DCE - 2 CLEVER +, Hexachlorobutadiene EFFF +
mb 3/20/06

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12	0.8083m	0.7390m	0.5922m	0.6960m	0.8928m	0.7317	0.7633	0.8644	0.7220	AVRG		1.32165		0.7566	12	15	0.050	0.99	
Chloromethane		1.0029m	0.9565	0.9308	1.0906m	0.9220	0.8541	0.8933	0.7678	AVRG		1.07847		0.9272	10	15	0.10	0.99	
Vinyl Chloride	0.7727	0.7008m	0.7123m	0.6989m	0.8627m	0.7345	0.6975	0.7454	0.6642	AVRG		1.36593		0.7321	8	15	0.050	0.99	
Bromomethane		0.5496m	0.5063m	0.5166m	0.5430	0.4788	0.4808	0.5364	0.4752	AVRG		1.95757		0.5108	6	15	0.050	0.99	
Chloroethane		0.3798m	0.3573	0.3743m	0.4146	0.3579	0.3416	0.3726	0.3177	AVRG		2.74357		0.3645	8	15	0.050	0.99	
Trichlorofluoromethane	1.0007	1.0197m	0.7939	0.8464	1.0111	0.8947	0.8959	1.0235	0.8574	AVRG		1.07871		0.9270	9	15	0.050	0.99	
Acetone			0.3083	0.3901	0.3347	0.3089	0.2797	0.3289	0.2753	AVRG		3.14482		0.3180	12	15	0.050	0.99	
Freon 113		0.4585	0.4007	0.3700	0.4829	0.4189	0.3425	0.5452	0.4522	AVRG		2.30482		0.4339	15	15	0.050	0.99	
1,1-Dichloroethene		0.5072m	0.4661	0.4108	0.4630	0.4028	0.3721	0.4423	0.3929	AVRG		2.31400		0.4322	10	15	0.050	0.99	
Methylene Chloride			0.5925	0.6230	0.6403	0.5694	0.5508	0.5778	0.5335	AVRG		1.71266		0.5839	7	15	0.050	0.99	
Carbon Disulfide		1.9141	1.8764	1.7382	2.0481	1.7612	1.6723	1.8717	1.6975	AVRG		0.54871		1.8224	7	15	0.050	0.99	
MTBE		1.9937	1.8879	1.8798	1.9484	1.8573	1.8230	1.8290	1.7367	AVRG		0.53491		1.8695	4	15	0.050	0.99	
trans-1,2-Dichloroethene		0.6328	0.5966	0.5222	0.5575	0.4961	0.4760	0.5236	0.4791	AVRG		1.86748		0.5355	11	15	0.050	0.99	
Vinyl Acetate			2.2052	2.1371	2.1057	2.3014	2.2214	1.6778	2.1330	AVRG		0.47356		2.1116	10	15	0.050	0.99	
1,1-Dichloroethane	1.1411	1.1604	1.2209	1.1763	1.3481	1.1764	1.1380	1.1962	1.0594	AVRG		0.84771		1.1796	7	15	0.10	0.99	
2-Butanone			0.5140	0.5168	0.5068	0.5129	0.4910	0.4734	0.4496	AVRG		2.02044		0.4949	5	15	0.050	0.99	
2,2-Dichloropropane	0.8335	0.7002	0.8128	0.7727	0.8965	0.7902	0.7169	0.7745	0.6716	AVRG		1.29145		0.7743	9	15	0.050	0.99	
cis-1,2-Dichloroethene	0.6735	0.7773	0.6490	0.6743	0.7096	0.6435	0.6200	0.6238	0.5761	AVRG		1.51334		0.6608	9	15	0.050	0.99	
Chloroform	1.2715	1.1812	1.1972	1.2022	1.3246	1.1928	1.1203	1.1719	1.0401	AVRG		0.84098		1.1891	7	15	0.050	0.99	
Bromochloromethane	0.2599	0.2555	0.2891	0.2830	0.2925	0.3014	0.2852	0.2874	0.2631	AVRG		3.57574		0.2797	6	15	0.050	0.99	
1,1,1-Trichloroethane	0.9481	0.8975	0.8847	0.8289	0.9507	0.8207	0.7361	0.8828	0.7537	AVRG		1.16836		0.8559	9	15	0.050	0.99	
1,1-Dichloropropene		0.4234	0.4029	0.3913	0.4839	0.4057	0.3630	0.4566	0.3833	AVRG		2.41690		0.4138	10	15	0.050	0.99	
Carbon Tetrachloride		0.3751	0.3670	0.3284	0.4069	0.3542	0.3024	0.3897	0.3236	AVRG		2.80959		0.3559	10	15	0.050	0.99	
1,2-Dichloroethane	0.6258	0.5786	0.5765	0.5955	0.6469	0.6092	0.5743	0.5728	0.5216	AVRG		1.69772		0.5890	6	15	0.050	0.99	

446110313001

03/20/06

8260 / GASOP w ICAL

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.4867	1.2422	1.2403	1.4150	1.2520	1.1975	1.2478	1.1171	AVRG		0.78443		1.2748	9	15	0.050	0.99	
Trichloroethene		0.3921	0.3268	0.3360	0.3887	0.3260	0.3020	0.3559	0.3057	AVRG		2.92705		0.3416	10	15	0.050	0.99	
1,2-Dichloropropane	0.3531	0.3857	0.3992	0.3687	0.4188	0.3745	0.3695	0.3862	0.3412	AVRG		2.64939		0.3774	6	15	0.050	0.99	
Bromodichloromethane	0.5243	0.5267	0.5085	0.5211	0.5752	0.5118	0.5028	0.5243	0.4757	AVRG		1.92705		0.5189	5	15	0.050	0.99	
Dibromomethane		0.2958	0.2879	0.2787	0.2984	0.2789	0.2795	0.2861	0.2644	AVRG		3.52449		0.2837	4	15	0.050	0.99	
2-Chloroethylvinylether		0.2012	0.2257	0.2247	0.2374	0.2309	0.2263	0.2410	0.2268	AVRG		4.41050		0.2267	5	15	0.050	0.99	
4-Methyl-2-Pentanone			0.5862	0.5866	0.6136	0.5899	0.5760	0.5855	0.5653	AVRG		1.70599		0.5862	3	15	0.050	0.99	
Tetramethyl THF	1.1825	1.0896	1.0533	1.0978	1.1982	1.1389	1.0752	1.1009	1.0091	AVRG		0.90494		1.1051	5	15	0.050	0.99	
cis-1,3-Dichloropropene	0.6197	0.6141	0.6010	0.5744	0.6552	0.6000	0.5801	0.6054	0.5481	AVRG		1.66728		0.5998	5	15	0.050	0.99	
Toluene		0.7218	0.7437	0.7526	0.8646	0.7513	0.6854	0.7785	0.6826	AVRG		1.33770		0.7475	8	15	0.050	0.99	
trans-1,3-Dichloropropene	0.5652	0.5510	0.5691	0.5617	0.6308	0.5969	0.5754	0.5932	0.5405	AVRG		1.73612		0.5760	5	15	0.050	0.99	
1,1,2-Trichloroethane		0.1646	0.1854	0.1867	0.2090	0.1928	0.1885	0.1910	0.1772	AVRG		5.35056		0.1869	7	15	0.050	0.99	
2-Hexanone			0.4682	0.4640	0.4958	0.4725	0.4359	0.4633	0.4434	AVRG		2.15844		0.4633	4	15	0.050	0.99	
1,3-Dichloropropane		0.6487	0.6733	0.6815	0.7030	0.7028	0.6258	0.6553	0.6234	AVRG		1.50549		0.6642	5	15	0.050	0.99	
Tetrachloroethene	0.2627	0.2572	0.2965	0.2614	0.3057	0.2669	0.2245	0.3000	0.2680	AVRG		3.68399		0.2714	9	15	0.050	0.99	
Dibromochloromethane		0.3926	0.3844	0.4006	0.4094	0.4032	0.3839	0.4062	0.3805	AVRG		2.53101		0.3951	3	15	0.050	0.99	
1,2-Dibromoethane	0.3585	0.3597	0.3409	0.3435	0.3698	0.3647	0.3614	0.3834	0.3447	AVRG		2.78919		0.3585	4	15	0.050	0.99	
Chlorobenzene		0.9146	0.9791	0.9205	1.0085	0.9334	0.8547	0.9135	0.8771	AVRG		1.08087		0.9252	5	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.2652	0.3612	0.3096	0.3461	0.3149	0.2971	0.3240	0.3013	AVRG		3.17532		0.3149	9	15	0.050	0.99	
Ethylbenzene	1.7079	1.5625	1.7305	1.5828	1.8193	1.6428	1.4241	1.6408	1.5089	AVRG		0.61562		1.6244	7	15	0.050	0.99	
m,p-Xylenes	0.6201	0.5493	0.6128	0.5791	0.6379	0.5878	0.5222	0.5934	0.5316	AVRG		1.71951		0.5816	7	15	0.050	0.99	
o-Xylene	0.6051	0.5463	0.6104	0.5794	0.6726	0.5970	0.5318	0.5900	0.5297	AVRG		1.71021		0.5847	8	15	0.050	0.99	
Styrene	0.9416	0.9043	1.0867	1.0281	1.1942	1.0913	1.0096	1.0777	0.9838	AVRG		0.96595		1.0352	9	15	0.050	0.99	
Bromoform		0.3186	0.2930	0.2936	0.3115	0.3033	0.3028	0.3061	0.2985	AVRG		3.29577		0.3034	3	15	0.10	0.99	
Isopropylbenzene	2.5661	2.7196	2.8792	2.6133	2.9973	2.6688	2.2471	2.7688	2.6369	AVRG		0.37349		2.6775	8	15	0.050	0.99	
1,1,2,2-Tetrachloroethane		1.1411	1.1835	1.2005	1.2246	1.1878	1.0991	1.0676	1.1247	AVRG		0.86684		1.1536	5	15	0.30	0.99	
1,2,3-Trichloropropane		1.2728	1.1432	1.0839	1.1006	1.0368	0.9736	0.9875	1.0058	AVRG		0.92978		1.0755	9	15	0.050	0.99	
Propylbenzene		3.7912	4.0334	3.6856	4.0718	3.5734	2.9743	3.6493	3.4260	AVRG		0.27392		3.6506	10	15	0.050	0.99	
Bromobenzene	0.7472	0.8160	0.7660	0.7536	0.7856	0.7498	0.6849	0.7200	0.7151	AVRG		1.33567		0.7487	5	15	0.050	0.99	
1,3,5-Trimethylbenzene		2.3877	2.6315	2.3388	2.7159	2.3870	2.0728	2.4261	2.2257	AVRG		0.41698		2.3982	9	15	0.050	0.99	
2-Chlorotoluene	2.9727	2.7569	2.8201	2.6892	3.0408	2.6262	2.2999	2.5677	2.3619	AVRG		0.37290		2.6817	9	15	0.050	0.99	
4-Chlorotoluene		2.5340	2.7590	2.4565	2.7650	2.4958	2.2969	2.4755	2.3438	AVRG		0.39749		2.5158	7	15	0.050	0.99	
tert-Butylbenzene	1.8184	1.8703	1.7681	1.7210	1.9081	1.7024	1.4389	1.8622	1.6795	AVRG		0.57074		1.7521	8	15	0.050	0.99	
1,2,4-Trimethylbenzene		2.5908	2.6845	2.5015	2.7800	2.5599	2.2506	2.6243	2.4256	AVRG		0.39183		2.5522	6	15	0.050	0.99	
sec-Butylbenzene	2.8295	2.8921	2.8724	2.7053	3.1829	2.7882	2.2857	3.1038	2.7281	AVRG		0.35450		2.8209	9	15	0.050	0.99	
para-Isopropyl Toluene		2.0383	2.1650	2.0973	2.3898	2.1446	1.8051	2.3663	2.0766	AVRG		0.46830		2.1354	9	15	0.050	0.99	
1,3-Dichlorobenzene		1.3386	1.3907	1.3360	1.4689	1.3010	1.2162	1.3085	1.2176	AVRG		0.75632		1.3222	6	15	0.050	0.99	
1,4-Dichlorobenzene		1.3702	1.5083	1.3831	1.4701	1.3491	1.2530	1.3837	1.3067	AVRG		0.72568		1.3780	6	15	0.050	0.99	
n-Butylbenzene		2.5100	2.5324	2.2997	2.6315	2.3407	1.8452	2.5326	2.2575	AVRG		0.42217		2.3687	11	15	0.050	0.99	
1,2-Dichlorobenzene		1.3064	1.3491	1.2802	1.3788	1.3306	1.1882	1.2639	1.2371	AVRG		0.77412		1.2918	5	15	0.050	0.99	
1,2-Dibromo-3-Chloropropane		0.2496	0.2294	0.2091	0.2298	0.2388	0.2199	0.2307	0.2275	AVRG		4.35986		0.2294	5	15	0.050	0.99	

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446110313001

8260/GASOX W ICAL

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,4-Trichlorobenzene	0.7234	0.4766	0.7320	0.8329	0.8966	0.8703	0.7940	0.9221	0.8923	QUAD	-0.0478	1.23347	-0.00144	0.7933	0.998	15	0.050	0.99	
Hexachlorobutadiene		0.1436	0.2322	0.1940	0.2428	0.2213	0.1717			QUAD	0.77281	3.03223	0.313836	0.2009	0.999	15	0.050	0.99	
Naphthalene		1.0803	1.4358	1.7771	2.0373	2.1449	2.1390	2.3436		QUAD	0.18855	0.50558	-0.00045	1.8511	1.000	15	0.050	0.99	
1,2,3-Trichlorobenzene		0.5861	0.6677	0.7438	0.8649	0.8123	0.7836	0.8621	0.8382	AVRG		1.29897		0.7698	13	15	0.050	0.99	
tert-Butyl Alcohol (TBA)	0.0754m	0.0637	0.0716	0.0813	0.0791	0.0741	0.0686	0.0724	0.0732	AVRG		13.6498		0.0733	7	15	0.005	0.99	
Isopropyl Ether (DIPE)		3.0681	3.1907	3.2251	3.3620	3.2141	3.1193	3.1721	2.8926	AVRG		0.31691		3.1555	4	15	0.050	0.99	
Ethyl tert-Butyl Ether (ETBE)		2.1631	2.1518	2.2040	2.3408	2.2452	2.1237	2.1867	2.0762	AVRG		0.45736		2.1864	4	15	0.050	0.99	
Methyl tert-Amyl Ether (TAME)		1.1206	1.0971	1.0582	1.1373	1.0773	1.0617	1.0699	0.9857	AVRG		0.92939		1.0760	4	15	0.050	0.99	
Cyclohexanone			0.0923	0.1028	0.1079	0.0513	0.0802	0.1285	0.0965	AVRG		10.6168		0.0942	**26**	15	0.005	0.99	rsd
Ethanol			0.0102	0.0096	0.0104	0.0102	0.0096	0.0098	0.0094	AVRG		101.126		0.0099	4	15	0.0005	0.99	
Isopropanol			0.0523	0.0616	0.0613	0.0571	0.0534	0.0535	0.0541	AVRG		17.8010		0.0562	7	15	0.005	0.99	
Tetrahydrofuran			0.2711	0.2844	0.2878	0.2773	0.2549	0.2556	0.2362	AVRG		3.74870		0.2668	7	15	0.005	0.99	
Dibromofluoromethane	0.6811	0.6693	0.6728	0.6991	0.6885	0.6771	0.6802	0.6778	0.6714	AVRG		1.47123		0.6797	1	15	0.050	0.99	
1,2-Dichloroethane-d4	0.5296	0.5418	0.5179	0.5272	0.5432	0.5373	0.5360	0.5138	0.4934	AVRG		1.89866		0.5267	3	15	0.050	0.99	
Trifluorotoluene	0.3185	0.2918	0.3122	0.2842	0.3733	0.3151	0.2760	0.3717	0.3215	AVRG		3.14214		0.3183	11	15	0.050	0.99	
Toluene-d8	1.1512	1.1414	1.1059	1.1021	1.1543	1.1171	1.1690	1.1749	1.1331	AVRG		0.87815		1.1388	2	15	0.050	0.99	
Bromofluorobenzene	1.3752	1.3747	1.3309	1.3193	1.3093	1.2841	1.2958	1.2895	1.3286	AVRG		0.75583		1.3230	3	15	0.050	0.99	

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m=manual integration rsd=ICAL %RSD failure

AVRG=Average response factor QUAD=Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

446110313001

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA05 Run Name: 25PPB IDF : 1.0
Seqnum : 446114231005 File : eck05 Time : 20-MAR-2006 10:15
Cal : 446110313001 Caldate : 17-MAR-2006 Caltype : WATER
Standards: S2953 (10000X), S2902 (10000X), S2616 (10000X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	0.7566	0.6819	25.00	22.53	ug/L	-10	30	m
Chloromethane	0.9272	0.9542	25.00	25.73	ug/L	3	30	
Vinyl Chloride	0.7321	0.7283	25.00	24.87	ug/L	-1	20	m
Bromomethane	0.5108	0.5268	25.00	25.78	ug/L	3	30	
Chloroethane	0.3645	0.3695	25.00	25.35	ug/L	1	30	
Trichlorofluoromethane	0.9270	0.7575	25.00	20.43	ug/L	-18	30	
Acetone	0.3180	0.3155	25.00	24.80	ug/L	-1	40	
Freon 113	0.4339	0.4067	25.00	23.44	ug/L	-6	30	
1,1-Dichloroethene	0.4322	0.4324	25.00	25.02	ug/L	0	20	
Methylene Chloride	0.5839	0.6309	25.00	27.01	ug/L	8	30	
Carbon Disulfide	1.8224	1.5895	25.00	21.80	ug/L	-13	30	
MTBE	1.8695	1.7197	25.00	23.00	ug/L	-8	30	
trans-1,2-Dichloroethene	0.5355	0.5220	25.00	24.37	ug/L	-3	30	
Vinyl Acetate	2.1116	1.8969	25.00	22.46	ug/L	-10	40	
1,1-Dichloroethane	1.1796	1.2795	25.00	27.12	ug/L	8	30	
2-Butanone	0.4949	0.5637	25.00	28.47	ug/L	14	40	
2,2-Dichloropropane	0.7743	0.9154	25.00	29.55	ug/L	18	30	
cis-1,2-Dichloroethene	0.6608	0.6978	25.00	26.40	ug/L	6	30	
Chloroform	1.1891	1.2782	25.00	26.87	ug/L	7	20	
Bromochloromethane	0.2797	0.3036	25.00	27.14	ug/L	9	30	
1,1,1-Trichloroethane	0.8559	0.8436	25.00	24.64	ug/L	-1	30	
1,1-Dichloropropene	0.4138	0.4453	25.00	26.91	ug/L	8	30	
Carbon Tetrachloride	0.3559	0.3399	25.00	23.87	ug/L	-5	30	
1,2-Dichloroethane	0.5890	0.5881	25.00	24.96	ug/L	0	30	
Benzene	1.2748	1.3026	25.00	25.54	ug/L	2	30	
Trichloroethene	0.3416	0.3389	25.00	24.80	ug/L	-1	30	
1,2-Dichloropropane	0.3774	0.4106	25.00	27.20	ug/L	9	20	
Bromodichloromethane	0.5189	0.5760	25.00	27.75	ug/L	11	30	
Dibromomethane	0.2837	0.2988	25.00	26.33	ug/L	5	30	
2-Chloroethylvinylether	0.2267	0.2992	25.00	33.00	ug/L	**32**	40	!v+
4-Methyl-2-Pentanone	0.5862	0.6330	25.00	27.00	ug/L	8	40	
Tetramethyl THF	1.1051	1.1759	25.00	26.60	ug/L	6	30	
cis-1,3-Dichloropropene	0.5998	0.6565	25.00	27.36	ug/L	9	30	
Toluene	0.7475	0.7655	25.00	25.60	ug/L	2	20	
trans-1,3-Dichloropropene	0.5760	0.6144	25.00	26.67	ug/L	7	30	
1,1,2-Trichloroethane	0.1869	0.2124	25.00	28.41	ug/L	14	30	
2-Hexanone	0.4633	0.5361	25.00	28.93	ug/L	16	40	
1,3-Dichloropropane	0.6642	0.7587	25.00	28.55	ug/L	14	30	
Tetrachloroethene	0.2714	0.2781	25.00	25.61	ug/L	2	30	
Dibromochloromethane	0.3951	0.4131	25.00	26.14	ug/L	5	30	
1,2-Dibromoethane	0.3585	0.3771	25.00	26.30	ug/L	5	30	
Chlorobenzene	0.9252	0.9242	25.00	24.97	ug/L	0	30	
1,1,1,2-Tetrachloroethane	0.3149	0.3234	25.00	25.68	ug/L	3	30	
Ethylbenzene	1.6244	1.7026	25.00	26.20	ug/L	5	20	
m,p-Xylenes	0.5816	0.6143	50.00	52.82	ug/L	6	30	
o-Xylene	0.5847	0.6269	25.00	26.80	ug/L	7	30	
Styrene	1.0352	1.1376	25.00	27.47	ug/L	10	30	
Bromoform	0.3034	0.3128	25.00	25.78	ug/L	3	30	
Isopropylbenzene	2.6775	2.6898	25.00	25.11	ug/L	0	30	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	1.1536	1.3047	25.00	28.27	ug/L	13	30	
1,2,3-Trichloropropane	1.0755	1.1484	25.00	26.69	ug/L	7	30	
Propylbenzene	3.6506	3.9318	25.00	26.93	ug/L	8	30	
Bromobenzene	0.7487	0.7418	25.00	24.77	ug/L	-1	30	
1,3,5-Trimethylbenzene	2.3982	2.4438	25.00	25.48	ug/L	2	30	
2-Chlorotoluene	2.6817	2.7811	25.00	25.93	ug/L	4	30	
4-Chlorotoluene	2.5158	2.6144	25.00	25.98	ug/L	4	30	
tert-Butylbenzene	1.7521	1.8889	25.00	26.95	ug/L	8	30	
1,2,4-Trimethylbenzene	2.5522	2.5729	25.00	25.20	ug/L	1	30	
sec-Butylbenzene	2.8209	3.1170	25.00	27.62	ug/L	10	30	
para-Isopropyl Toluene	2.1354	2.1952	25.00	25.70	ug/L	3	30	
1,3-Dichlorobenzene	1.3222	1.3971	25.00	26.42	ug/L	6	30	
1,4-Dichlorobenzene	1.3780	1.4423	25.00	26.17	ug/L	5	30	
n-Butylbenzene	2.3687	2.6431	25.00	27.90	ug/L	12	30	
1,2-Dichlorobenzene	1.2918	1.3713	25.00	26.54	ug/L	6	30	
1,2-Dibromo-3-Chloropropane	0.2294	0.2473	25.00	26.96	ug/L	8	30	
1,2,4-Trichlorobenzene	0.7933	0.9087	25.00	27.23	ug/L	9	30	
Hexachlorobutadiene	0.2009	0.2506	25.00	32.09	ug/L	**28**	30	!v+
Naphthalene	1.8511	2.3296	25.00	28.12	ug/L	12	30	
1,2,3-Trichlorobenzene	0.7698	0.8536	25.00	27.72	ug/L	11	30	
tert-Butyl Alcohol (TBA)	0.0733	0.0802	125.0	136.8	ug/L	9	30	
Isopropyl Ether (DIPE)	3.1555	3.1949	25.00	25.31	ug/L	1	30	
Ethyl tert-Butyl Ether (ETBE)	2.1864	2.3762	25.00	27.17	ug/L	9	30	
Methyl tert-Amyl Ether (TAME)	1.0760	1.0151	25.00	23.59	ug/L	-6	30	
Cyclohexanone	0.0942	0.0508	250.0	134.9	ug/L	**-46**	30	v- ***
Ethanol	0.0099	0.0122	2500	3088	ug/L	**24**	30	!v+
Isopropanol	0.0562	0.0645	250.0	287.1	ug/L	15	30	
Tetrahydrofuran	0.2668	0.3110	250.0	291.5	ug/L	17	30	

ISTD (ICAL ech10)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	533288	498887	-6.45	10.24	10.23	-0.01
1,4-Difluorobenzene	942862	906516	-3.85	11.37	11.37	0.00
Chlorobenzene-d5	845304	775485	-8.26	15.40	15.40	0.00
1,4-Dichlorobenzene-d4	434480	398768	-8.22	18.12	18.12	0.00

Q 3/20/07

A 3/20/07

!=warning +=high bias -=low bias m=manual integration v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 8260B

Inst : MSVOA06
Calnum : 456098395001
Units : ug/L

Name : 826GOX6W
Date : 09-MAR-2006 16:16
X Axis : R

Type : WATER

Reviewer: AMK
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	fc915	456098395015	0.25/0.5PPB	09-MAR-2006 16:16	S2783 (1000000X), S2844 (2000000X), S2410 (2000000X), S2740 (1000X)
L2	fc916	456098395016	0.5/1PPB	09-MAR-2006 16:52	S2783 (500000X), S2844 (1000000X), S2410 (1000000X), S2740 (1000X)
L3	fc917	456098395017	2PPB	09-MAR-2006 17:27	S2783 (250000X), S2844 (250000X), S2410 (500000X), S2740 (1000X)
L4	fc918	456098395018	5PPB	09-MAR-2006 18:02	S2783 (100000X), S2844 (100000X), S2410 (200000X), S2740 (1000X)
L5	fc919	456098395019	10PPB	09-MAR-2006 18:37	S2783 (50000X), S2844 (50000X), S2410 (100000X), S2740 (1000X)
L6	fc920	456098395020	20PPB	09-MAR-2006 19:12	S2783 (25000X), S2844 (25000X), S2410 (50000X), S2740 (1000X)
L7	fc921	456098395021	50PPB	09-MAR-2006 19:47	S2783 (10000X), S2844 (10000X), S2410 (20000X), S2740 (1000X)
L8	fc922	456098395022	75PPB	09-MAR-2006 20:21	S2783 (6667X), S2844 (6667X), S2410 (13330X), S2740 (1000X)
L9	fc923	456098395023	100PPB	09-MAR-2006 20:56	S2783 (5000X), S2844 (5000X), S2410 (10000X), S2740 (1000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12	0.8680m	0.9680	0.5765m	0.8744	0.8792	0.9150	0.8965	0.9524	0.9525	AVRG		1.14177		0.8758	13	15	0.050	0.99	
Chloromethane		1.0407	0.8197	0.8861	0.8718	0.8601	0.8426	0.8646	0.8790	AVRG		1.13239		0.8831	8	15	0.10	0.99	
Vinyl Chloride		0.7171	0.6051	0.6632	0.7163	0.7452	0.6887	0.7352	0.7344	AVRG		1.42726		0.7006	7	15	0.050	0.99	
Bromomethane		0.6024	0.4323	0.3774m	0.4453	0.4379	0.4506	0.4719	0.4856	AVRG		2.16027		0.4629	14	15	0.050	0.99	
Chloroethane		0.4613m	0.3695	0.3667	0.3963	0.3751	0.3702	0.3794	0.3705	AVRG		2.58977		0.3861	8	15	0.050	0.99	
Trichlorofluoromethane	0.9028	1.0932	0.6600	0.9526	1.0108	1.0176	0.9709	1.0589	1.0651	AVRG		1.03072		0.9702	13	15	0.050	0.99	
Acetone			0.4219	0.3756	0.3368	0.3359	0.3388	0.3409	0.3619	AVRG		2.78684		0.3588	9	15	0.050	0.99	
Freon 113	0.2691m	0.5570	0.4360	0.4137	0.3677	0.6318	0.5175	0.5803	0.6012	QUAD	0.47698	1.92489	-0.00450	0.4860	0.997	15	0.050	0.99	
1,1-Dichloroethene		0.7352	0.5763	0.5128	0.5011	0.6118	0.5362	0.5891	0.5653	AVRG		1.72864		0.5785	13	15	0.050	0.99	
Methylene Chloride			0.9139	0.8434	0.8800	0.8331	0.8253	0.8177	0.7888	AVRG		1.18602		0.8432	5	15	0.050	0.99	
Carbon Disulfide	2.2837	2.6686	2.2949	2.2764	2.2065	2.5367	2.2333	2.3902	2.3117	AVRG		0.42449		2.3558	6	15	0.050	0.99	
MTBE	2.3719	2.6069	2.3672	2.3297	2.4759	2.3751	2.2817	2.2760	2.2110	AVRG		0.42263		2.3661	5	15	0.050	0.99	
trans-1,2-Dichloroethene	0.8087	0.8602	0.7243	0.6502	0.6899	0.7306	0.6509	0.6857	0.6557	AVRG		1.39398		0.7174	10	15	0.050	0.99	
Vinyl Acetate			1.9969	2.0862	2.3777	2.3751	2.1802	2.1010	1.6685	AVRG		0.47343		2.1122	12	15	0.050	0.99	
1,1-Dichloroethane	1.3957	1.3639	1.3232	1.2979	1.3981	1.3860	1.2808	1.2798	1.2290	AVRG		0.75287		1.3283	5	15	0.10	0.99	
2-Butanone			0.5173	0.5270	0.5376	0.5134	0.5002	0.4880	0.4823	AVRG		1.96307		0.5094	4	15	0.050	0.99	
2,2-Dichloropropane	0.9564	0.9889	0.8727	0.8184	0.8080	0.8908	0.8009	0.8201	0.7889	AVRG		1.16202		0.8606	8	15	0.050	0.99	
cis-1,2-Dichloroethene	0.9107	1.1319	0.8972	0.7496	0.8309	0.8146	0.7717	0.7577	0.7354	AVRG		1.18426		0.8444	15	15	0.050	0.99	
Chloroform	1.3805	1.3756	1.3398	1.2327	1.3778	1.3326	1.2646	1.2664	1.2263	AVRG		0.76295		1.3107	5	15	0.050	0.99	
Bromochloromethane	0.4203	0.4021	0.3837	0.3777	0.4174	0.4032	0.3915	0.3833	0.3676	AVRG		2.53746		0.3941	5	15	0.050	0.99	
1,1,1-Trichloroethane		1.0081	0.8067	0.8058	0.8046	0.9240	0.8224	0.8722	0.8424	AVRG		1.16175		0.8608	8	15	0.050	0.99	
1,1-Dichloropropene	0.4858	0.5312	0.4502	0.4425	0.3977	0.5194	0.4552	0.4808	0.4704	AVRG		2.12606		0.4704	9	15	0.050	0.99	
Carbon Tetrachloride		0.3073	0.2921	0.2937	0.2606	0.3804	0.3380	0.3706	0.3665	AVRG		3.06619		0.3261	13	15	0.050	0.99	
1,2-Dichloroethane	0.4942	0.5146	0.5630	0.5277	0.5457	0.5374	0.5191	0.5090	0.4981	AVRG		1.91131		0.5232	4	15	0.050	0.99	

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Reprinted - av 03/23/06

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene	1.6327	1.7415	1.5949	1.5390	1.5479	1.6182	1.4706	1.4944	1.4202	AVRG		0.64014		1.5622	6	15	0.050	0.99	
Trichloroethene	0.3756	0.3562	0.3979	0.3748	0.3444	0.3855	0.3552	0.3686	0.3644	AVRG		2.70866		0.3692	4	15	0.050	0.99	
1,2-Dichloropropane	0.4914	0.4838	0.4456	0.4445	0.4699	0.4661	0.4333	0.4225	0.4047	AVRG		2.21578		0.4513	6	15	0.050	0.99	
Bromodichloromethane	0.4830	0.5465	0.5319	0.5177	0.5563	0.5546	0.5379	0.5303	0.5163	AVRG		1.88501		0.5305	4	15	0.050	0.99	
Dibromomethane	0.3219	0.2846	0.3084	0.3282	0.3310	0.3215	0.3095	0.3076	0.2984	AVRG		3.20146		0.3124	5	15	0.050	0.99	
2-Chloroethylvinylether				0.0290	0.0425	0.0536	0.0254	0.0156	0.0146	AVRG		33.2104		**0.0301**	**51**	15	0.050	0.99	irf rsd ***
4-Methyl-2-Pentanone			0.5392	0.5694	0.5708	0.5734	0.5627	0.5453	0.5209	AVRG		1.80333		0.5545	4	15	0.050	0.99	
Tetramethyl THF	0.9159	0.9813	0.9650	1.0086	1.0453	1.0237	0.9698	0.9221	0.8787	AVRG		1.03322		0.9678	6	15	0.050	0.99	
cis-1,3-Dichloropropene	0.6435	0.6884	0.7029	0.6696	0.7113	0.7213	0.6799	0.6556	0.6275	AVRG		1.47543		0.6778	5	15	0.050	0.99	
Toluene	0.9220	0.9482	0.8704	0.8678	0.8594	0.9253	0.8658	0.8502	0.8110	AVRG		1.13637		0.8800	5	15	0.050	0.99	
trans-1,3-Dichloropropene	0.6287	0.5668	0.6534	0.6399	0.6423	0.6569	0.6248	0.6181	0.5994	AVRG		1.59850		0.6256	5	15	0.050	0.99	
1,1,2-Trichloroethane	0.2389	0.2273	0.2398	0.2266	0.2371	0.2267	0.2268	0.2233	0.2084	AVRG		4.37964		0.2283	4	15	0.050	0.99	
2-Hexanone			0.4755	0.4579	0.4988	0.4708	0.4743	0.4590	0.4522	AVRG		2.12866		0.4698	3	15	0.050	0.99	
1,3-Dichloropropane	0.8071	0.8843	0.8389	0.8337	0.8725	0.8567	0.8344	0.8163	0.7853	AVRG		1.19534		0.8366	4	15	0.050	0.99	
Tetrachloroethene	0.2946	0.3850	0.3426	0.3281	0.2957	0.3734	0.3402	0.3726	0.3683	AVRG		2.90285		0.3445	10	15	0.050	0.99	
Dibromochloromethane		0.4320	0.4554	0.4456	0.4904	0.4897	0.4855	0.5015	0.4889	AVRG		2.11142		0.4736	5	15	0.050	0.99	
1,2-Dibromoethane	0.4131	0.4720	0.4227	0.4372	0.4254	0.4444	0.4276	0.4156	0.4013	AVRG		2.33205		0.4288	5	15	0.050	0.99	
Chlorobenzene	1.1003	1.1189	1.1375	1.0887	1.1030	1.1325	1.0837	1.0870	1.0463	AVRG		0.90929		1.0998	3	15	0.30	0.99	
1,1,1,2-Tetrachloroethane	0.4216	0.4183	0.4392	0.3942	0.4086	0.4121	0.3960	0.3993	0.3792	AVRG		2.45334		0.4076	4	15	0.050	0.99	
Ethylbenzene	1.7509	1.9418	1.7223	1.7955	1.8120	1.9422	1.7826	1.8095	1.7055	AVRG		0.55342		1.8069	5	15	0.050	0.99	
m,p-Xylenes	0.6465	0.6812	0.6719	0.6486	0.6238	0.6676	0.6196	0.6283	0.5981	AVRG		1.55558		0.6428	4	15	0.050	0.99	
o-Xylene	0.6716	0.6655	0.6582	0.6666	0.6714	0.6702	0.6379	0.6472	0.6196	AVRG		1.52326		0.6565	3	15	0.050	0.99	
Styrene	1.1253	1.1203	1.1839	1.1608	1.2220	1.1939	1.1716	1.1703	1.1136	AVRG		0.86028		1.1624	3	15	0.050	0.99	
Bromoform		0.4158	0.3725	0.3668	0.3776	0.3781	0.3815	0.3951	0.3865	AVRG		2.60262		0.3842	4	15	0.10	0.99	
Isopropylbenzene	3.0450	3.7105	2.9352	2.9640	2.6546	3.1567	2.9111	2.9636	2.8824	AVRG		0.33060		3.0248	10	15	0.050	0.99	
1,1,2,2-Tetrachloroethane	1.4511	1.5750	1.5714	1.5398	1.5179	1.5289	1.4592	1.4001	1.2839	AVRG		0.67530		1.4808	6	15	0.30	0.99	
1,2,3-Trichloropropane		1.3699	1.2860	1.3461	1.2292	1.1989	1.1012	1.1063	1.0055	AVRG		0.82961		1.2054	11	15	0.050	0.99	
Propylbenzene	4.0372	4.5130	3.7305	3.6589	3.2640	3.9504	3.4912	3.6230	3.4066	AVRG		0.26726		3.7416	10	15	0.050	0.99	
Bromobenzene		1.1139	1.0469	1.0733	1.0018	1.0426	0.9966	0.9976	0.9548	AVRG		0.97236		1.0284	5	15	0.050	0.99	
1,3,5-Trimethylbenzene	2.2600	2.1966	2.2475	2.1688	2.0293	2.3001	2.1633	2.2516	2.1361	AVRG		0.45562		2.1948	4	15	0.050	0.99	
2-Chlorotoluene		3.4188	3.0168	2.8451	2.7407	2.8866	2.6995	2.7496	2.5443	AVRG		0.34932		2.8627	9	15	0.050	0.99	
4-Chlorotoluene		3.0431	2.7497	2.6703	2.5756	2.6852	2.5424	2.5817	2.4097	AVRG		0.37633		2.6572	7	15	0.050	0.99	
tert-Butylbenzene	1.8662	1.9510	1.7346	1.7486	1.5081	1.8648	1.7394	1.8192	1.7691	AVRG		0.56246		1.7779	7	15	0.050	0.99	
1,2,4-Trimethylbenzene	2.1543	1.9648	2.0970	2.0597	1.9258	2.1315	2.1157	2.2225	2.1158	AVRG		0.47905		2.0875	4	15	0.050	0.99	
sec-Butylbenzene	2.3308	2.6293	2.4399	2.3495	2.0214	2.7492	2.5343	2.6894	2.6025	AVRG		0.40275		2.4829	9	15	0.050	0.99	
para-Isopropyl Toluene	1.5801	1.7641	1.6028	1.6276	1.4714	1.8970	1.7755	1.9361	1.9108	AVRG		0.57820		1.7295	10	15	0.050	0.99	
1,3-Dichlorobenzene		1.6988	1.5733	1.5941	1.5727	1.5986	1.5691	1.5947	1.5144	AVRG		0.62914		1.5895	3	15	0.050	0.99	
1,4-Dichlorobenzene		1.7472	1.6169	1.6416	1.5713	1.6334	1.5981	1.6118	1.5410	AVRG		0.61722		1.6202	4	15	0.050	0.99	
n-Butylbenzene	1.2556m	1.2680	1.1694	1.2384	1.1150	1.5480	1.4932	1.6751		AVRG		0.74330		1.3453	15	15	0.050	0.99	
1,2-Dichlorobenzene	1.6166	1.5880	1.6074	1.5255	1.5923	1.6263	1.5827	1.6034	1.5227	AVRG		0.63091		1.5850	2	15	0.050	0.99	
1,2-Dibromo-3-Chloropropane		0.4470	0.2579	0.2564	0.2580	0.2398	0.2539	0.2490	0.2346	QUAD	0.47192	3.56985	0.026979	0.2746	0.999	15	0.050	0.99	

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Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,4-Trichlorobenzene		0.2944	0.2500	0.3087	0.3271	0.4092	0.4596	0.5190		QUAD	0.92464	2.49106	-0.01515	0.3669	1.000	15	0.050	0.99	
Hexachlorobutadiene		0.1187	0.1187	0.1651	0.1497	0.2176	0.1989	0.2202		QUAD	0.60549	5.24561	-0.04346	0.1698	0.998	15	0.050	0.99	
Naphthalene		0.9088	1.1015	1.2352	1.2876	1.4547	1.5128	1.6406		QUAD	0.38280	0.72437	-0.00095	1.3059	1.000	15	0.050	0.99	
1,2,3-Trichlorobenzene		0.0995	0.1978	0.2610	0.3083	0.3840	0.4492	0.4988		QUAD	1.33161	2.52321	-0.01492	0.3141	0.999	15	0.050	0.99	
tert-Butyl Alcohol (TBA)		0.0818	0.0805	0.0738	0.0815	0.0735	0.0736	0.0724	0.0699	AVRG		13.1818		0.0759	6	15	0.005	0.99	
Isopropyl Ether (DIPE)	3.2567	3.3956	3.2417	3.2117	3.3782	3.2997	3.1147	3.0586	2.9453	AVRG		0.31139		3.2114	5	15	0.050	0.99	
Ethyl tert-Butyl Ether (ETBE)	2.3188	2.6225	2.2969	2.3394	2.5024	2.4089	2.3275	2.2862	2.2246	AVRG		0.42200		2.3697	5	15	0.050	0.99	
Methyl tert-Amyl Ether (TAME)	1.2958	1.2847	1.2257	1.2293	1.2872	1.2825	1.2181	1.1963	1.1444	AVRG		0.80616		1.2404	4	15	0.050	0.99	
Ethanol			0.0110	0.0102	0.0106	0.0105	0.0104	0.0099	0.0093	AVRG		97.4264		0.0103	5	15	0.0005	0.99	
Isopropanol			0.0559	0.0548	0.0603	0.0557	0.0549	0.0526	0.0503	AVRG		18.2030		0.0549	6	15	0.005	0.99	
Tetrahydrofuran		0.3409	0.3051	0.2903	0.2975	0.2769	0.2565	0.2379	0.2247	AVRG		3.58787		0.2787	14	15	0.005	0.99	
Dibromofluoromethane	0.6644	0.6697	0.6638	0.6731	0.6917	0.6728	0.6624	0.6531	0.6477	AVRG		1.50037		0.6665	2	15	0.050	0.99	
1,2-Dichloroethane-d4	0.4089	0.4041	0.4036	0.4047	0.4117	0.4195	0.3956	0.3924	0.3907	AVRG		2.47863		0.4034	2	15	0.050	0.99	
Trifluorotoluene	0.3443	0.4122	0.3901	0.3862	0.3403	0.4826	0.4069	0.4535	0.4452	AVRG		2.45821		0.4068	12	15	0.050	0.99	
Toluene-d8	1.0901	1.0831	1.0992	1.0967	1.0656	1.1116	1.0928	1.0808	1.0799	AVRG		0.91840		1.0888	1	15	0.050	0.99	
Bromofluorobenzene	1.2572	1.2682	1.1891	1.2097	1.1794	1.1768	1.1763	1.1778	1.1406	AVRG		0.83526		1.1972	3	15	0.050	0.99	

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irf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure

AVRG=Average response factor QUAD=Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

8260/6450x w/ICAL

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA06 Run Name: 25PPB IDF : 1.0
Seqnum : 456098395024 File : fc924 Time : 09-MAR-2006 21:30
Cal : 456098395001 Caldate : 09-MAR-2006 Caltype : WATER
Standards: S2807 (10000X), S2740 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	0.8758	0.7055	25.00	20.14	ug/L	-19	30	
Chloromethane	0.8831	0.8040	25.00	22.76	ug/L	-9	30	
Vinyl Chloride	0.7006	0.6130	25.00	21.87	ug/L	-13	20	
Bromomethane	0.4629	0.4255	25.00	22.98	ug/L	-8	30	
Chloroethane	0.3861	0.3493	25.00	22.61	ug/L	-10	30	
Trichlorofluoromethane	0.9702	0.8571	25.00	22.09	ug/L	-12	30	

ISTD (ICAL fc921)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	957753	1022053	6.71	12.35	12.35	0.00
1,4-Difluorobenzene	1704082	1828587	7.31	13.66	13.67	0.01
1,4-Dichlorobenzene-d4	701343	686381	-2.13	21.16	21.17	0.01

3/10/06

03/13/07

8260/6ADA w 10x

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA06 Run Name: 25PPB IDF : 1.0
Seqnum : 456098395025 File : fc925 Time : 09-MAR-2006 22:05
Cal : 456098395001 Caldate : 09-MAR-2006 Caltype : WATER
Standards: S2829 (10000X), S2616 (10000X), S2740 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Acetone	0.3588	0.3207	25.00	22.34	ug/L	-11	40	
Freon 113	0.4860	0.5646	25.00	26.75	ug/L	7	30	
1,1-Dichloroethene	0.5785	0.6442	25.00	27.84	ug/L	11	20	
Methylene Chloride	0.8432	0.8715	25.00	25.84	ug/L	3	30	
Carbon Disulfide	2.3558	2.0922	25.00	22.20	ug/L	-11	30	
MTBE	2.3661	2.0964	25.00	22.15	ug/L	-11	30	
trans-1,2-Dichloroethene	0.7174	0.7242	25.00	25.24	ug/L	1	30	
Vinyl Acetate	2.1122	1.8626	25.00	22.05	ug/L	-12	40	
1,1-Dichloroethane	1.3283	1.3711	25.00	25.81	ug/L	3	30	
2-Butanone	0.5094	0.4759	25.00	23.36	ug/L	-7	40	
2,2-Dichloropropane	0.8606	0.8416	25.00	24.45	ug/L	-2	30	
cis-1,2-Dichloroethene	0.8444	0.8337	25.00	24.68	ug/L	-1	30	
Chloroform	1.3107	1.3268	25.00	25.31	ug/L	1	20	
Bromochloromethane	0.3941	0.4178	25.00	26.51	ug/L	6	30	
1,1,1-Trichloroethane	0.8608	0.9237	25.00	26.83	ug/L	7	30	
1,1-Dichloropropene	0.4704	0.5267	25.00	28.00	ug/L	12	30	
Carbon Tetrachloride	0.3261	0.3791	25.00	29.06	ug/L	16	30	
1,2-Dichloroethane	0.5232	0.5577	25.00	26.65	ug/L	7	30	
Benzene	1.5622	1.6037	25.00	25.67	ug/L	3	30	
Trichloroethene	0.3692	0.4055	25.00	27.46	ug/L	10	30	
1,2-Dichloropropane	0.4513	0.4670	25.00	25.87	ug/L	3	20	
Bromodichloromethane	0.5305	0.5960	25.00	28.09	ug/L	12	30	
Dibromomethane	0.3124	0.3284	25.00	26.28	ug/L	5	30	
2-Chloroethylvinylether	0.0301	0.0373	25.00	30.98	ug/L	24	40	
4-Methyl-2-Pentanone	0.5545	0.5477	25.00	24.69	ug/L	-1	40	
Tetramethyl THF	0.9678	0.9678	25.00	25.00	ug/L	0	30	
cis-1,3-Dichloropropene	0.6778	0.7226	25.00	26.65	ug/L	7	30	
Toluene	0.8800	0.9281	25.00	26.37	ug/L	5	20	
trans-1,3-Dichloropropene	0.6256	0.6188	25.00	24.73	ug/L	-1	30	
1,1,2-Trichloroethane	0.2283	0.2384	25.00	26.10	ug/L	4	30	
2-Hexanone	0.4698	0.4572	25.00	24.33	ug/L	-3	40	
1,3-Dichloropropane	0.8366	0.8871	25.00	26.51	ug/L	6	30	
Tetrachloroethene	0.3445	0.4018	25.00	29.16	ug/L	17	30	
Dibromochloromethane	0.4736	0.5292	25.00	27.93	ug/L	12	30	
1,2-Dibromoethane	0.4288	0.4408	25.00	25.70	ug/L	3	30	
Chlorobenzene	1.0998	1.2031	25.00	27.35	ug/L	9	30	
1,1,1,2-Tetrachloroethane	0.4076	0.4291	25.00	26.32	ug/L	5	30	
Ethylbenzene	1.8069	1.9826	25.00	27.43	ug/L	10	20	
m,p-Xylenes	0.6428	0.7003	50.00	54.46	ug/L	9	30	
o-Xylene	0.6565	0.7345	25.00	27.97	ug/L	12	30	
Styrene	1.1624	1.2711	25.00	27.34	ug/L	9	30	
Bromoform	0.3842	0.3988	25.00	25.95	ug/L	4	30	
Isopropylbenzene	3.0248	3.1560	25.00	26.08	ug/L	4	30	
1,1,2,2-Tetrachloroethane	1.4808	1.5428	25.00	26.05	ug/L	4	30	
1,2,3-Trichloropropane	1.2054	1.2151	25.00	25.20	ug/L	1	30	
Propylbenzene	3.7416	4.1461	25.00	27.70	ug/L	11	30	
Bromobenzene	1.0284	1.0770	25.00	26.18	ug/L	5	30	
1,3,5-Trimethylbenzene	2.1948	2.4158	25.00	27.52	ug/L	10	30	
2-Chlorotoluene	2.8627	3.1165	25.00	27.22	ug/L	9	30	

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8260/6450D w tcal

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
4-Chlorotoluene	2.6572	2.7919	25.00	26.27	ug/L	5	30	
tert-Butylbenzene	1.7779	2.0905	25.00	29.40	ug/L	18	30	
1,2,4-Trimethylbenzene	2.0875	2.2982	25.00	27.52	ug/L	10	30	
sec-Butylbenzene	2.4829	3.0149	25.00	30.36	ug/L	21	30	!v+
para-Isopropyl Toluene	1.7295	1.9878	25.00	28.73	ug/L	15	30	
1,3-Dichlorobenzene	1.5895	1.7328	25.00	27.25	ug/L	9	30	
1,4-Dichlorobenzene	1.6202	1.7428	25.00	26.89	ug/L	8	30	
n-Butylbenzene	1.3453	1.7100	25.00	31.78	ug/L	27	30	!v+
1,2-Dichlorobenzene	1.5850	1.7149	25.00	27.05	ug/L	8	30	
1,2-Dibromo-3-Chloropropane	0.2746	0.2574	25.00	24.56	ug/L	-2	30	
1,2,4-Trichlorobenzene	0.3669	0.4580	25.00	27.46	ug/L	10	30	
Hexachlorobutadiene	0.1698	0.2538	25.00	32.14	ug/L	29	30	!v+
Naphthalene	1.3059	1.4870	25.00	25.99	ug/L	4	30	
1,2,3-Trichlorobenzene	0.3141	0.4352	25.00	27.02	ug/L	8	30	
tert-Butyl Alcohol (TBA)	0.0759	0.0664	125.0	109.5	ug/L	-12	30	
Isopropyl Ether (DIPE)	3.2114	2.9536	25.00	22.99	ug/L	-8	30	
Ethyl tert-Butyl Ether (ETBE)	2.3697	2.4151	25.00	25.48	ug/L	2	30	
Methyl tert-Amyl Ether (TAME)	1.2404	1.2070	25.00	24.33	ug/L	-3	30	
Ethanol	0.0103	0.0087	2500	2113	ug/L	-15	30	
Isopropanol	0.0549	0.0484	250.0	220.2	ug/L	-12	30	
Tetrahydrofuran	0.2787	0.2617	250.0	234.8	ug/L	-6	30	

ISTD (ICAL fc921)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	957753	988539	3.21	12.35	12.36	0.01
1,4-Difluorobenzene	1704082	1746226	2.47	13.66	13.67	0.01
Chlorobenzene-d5	1422227	1446564	1.71	18.32	18.33	0.01
1,4-Dichlorobenzene-d4	701343	702193	0.12	21.16	21.17	0.01

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!=warning +=high bias v=ICV

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8260/645SX w ICAL

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 8260B

Inst : MSVOA09 Name : 826GOX9W
Calnum : 486109916001 Date : 17-MAR-2006 13:19 Type : WATER Inj Vol: 5000 uL
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	ich08	486109916008	0.25/0.5PPB	17-MAR-2006 13:19	S2844 (2000000X), S2783 (1000000X), S2410 (2000000X), S2743 (1000X)
L2	ich09	486109916009	0.5/1PPB	17-MAR-2006 13:53	S2844 (1000000X), S2783 (500000X), S2410 (1000000X), S2743 (1000X)
L3	ich10	486109916010	2PPB	17-MAR-2006 14:29	S2844 (250000X), S2783 (250000X), S2410 (500000X), S2743 (1000X)
L4	ich11	486109916011	5PPB	17-MAR-2006 15:04	S2844 (100000X), S2783 (100000X), S2410 (200000X), S2743 (1000X)
L5	ich12	486109916012	10PPB	17-MAR-2006 15:39	S2844 (50000X), S2783 (50000X), S2410 (100000X), S2743 (1000X)
L6	ich13	486109916013	20PPB	17-MAR-2006 16:14	S2844 (25000X), S2783 (25000X), S2410 (50000X), S2743 (1000X)
L7	ich14	486109916014	50PPB	17-MAR-2006 16:48	S2844 (10000X), S2783 (10000X), S2410 (20000X), S2743 (1000X)
L8	ich15	486109916015	75PPB	17-MAR-2006 17:25	S2844 (6667X), S2783 (6667X), S2410 (13330X), S2743 (1000X)
L9	ich16	486109916016	100PPB	17-MAR-2006 17:59	S2844 (5000X), S2783 (5000X), S2410 (10000X), S2743 (1000X)

* ICAL - OK
* - high pt dropped for DBA
- 2 for Hexdecane (high pts)
* ICV - Hexdecane, Cyclohexane
worst - CS2

12/31/2006

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12	1.4596m	1.4498m	1.1910m	1.2715	1.6658	1.4096	1.4677	1.5836	1.4301	AVRG		0.69612		1.4365	10	15	0.050	0.99	
Chloromethane	2.3742m	2.3055m	2.1986m	2.0721	2.4750	2.1663	2.0305	2.0099	1.8188	AVRG		0.46270		2.1612	9	15	0.10	0.99	
Vinyl Chloride	1.7412m	1.7331m	1.6110m	1.5496	1.9474	1.6941	1.6753	1.7787	1.5976	AVRG		0.58716		1.7031	7	15	0.050	0.99	
Bromomethane	0.4844m	0.4272m	0.5713m	0.5552m	0.6988	0.7023	0.7958	0.8590	0.8418	QUAD	1.01905	1.25796	-0.00114	0.6595	0.999	15	0.050	0.99	
Chloroethane	0.9810m	0.9439	0.8955	0.8852m	1.0739	0.9373	0.9346	0.9614	0.8931	AVRG		1.05809		0.9451	6	15	0.050	0.99	
Trichlorofluoromethane	1.8571	1.8811	1.5088	1.5055	1.9515	1.6730	1.6648	1.8109	1.7057	AVRG		0.57847		1.7287	9	15	0.050	0.99	
Acetone			0.4358	0.4592	0.5027	0.5056	0.4825	0.4590	0.4519	AVRG		2.12339		0.4709	6	15	0.050	0.99	
Freon 113		1.0297	0.9127	0.8376	1.1322	1.0349	0.8830	1.2389	1.1159	AVRG		0.97740		1.0231	13	15	0.050	0.99	
1,1-Dichloroethene		0.9900	0.9726	0.8985	1.1236	1.0100	0.9417	1.0375	0.9983	AVRG		1.00350		0.9965	7	15	0.050	0.99	
Methylene Chloride			1.4663	1.3637	1.4813	1.3892	1.3470	1.3132	1.2817	AVRG		0.72596		1.3775	5	15	0.050	0.99	
Carbon Disulfide	4.4291	4.4461	4.3851	3.9891	4.9212	4.4491	4.1226	4.3948	4.1535	AVRG		0.22906		4.3656	6	15	0.050	0.99	
MTBE	3.4380	3.3440	3.4755	3.3817	3.7561	3.5978	3.5509	3.4796	3.4088	AVRG		0.28633		3.4925	4	15	0.050	0.99	
trans-1,2-Dichloroethene	1.2411	1.2695	1.1800	1.1996	1.3984	1.2385	1.1784	1.1964	1.1839	AVRG		0.81185		1.2317	6	15	0.050	0.99	
Vinyl Acetate			3.2336m	3.0503	3.0576	3.2400	2.9773	3.0411	2.6690	AVRG		0.32912		3.0384	6	15	0.050	0.99	
1,1-Dichloroethane	2.1191	2.1683	2.3190	2.2072	2.5623	2.2861	2.1898	2.1154	2.0644	AVRG		0.44929		2.2257	7	15	0.10	0.99	
2-Butanone				0.6432	0.7104	0.6854	0.6847	0.6635	0.6142	AVRG		1.49944		0.6669	5	15	0.050	0.99	
2,2-Dichloropropane	1.2240	1.2916	1.3623	1.2996	1.4950	1.3931	1.2477	1.3378	1.2800	AVRG		0.75433		1.3257	6	15	0.050	0.99	
cis-1,2-Dichloroethene	1.3442	1.3485	1.4189	1.3069	1.4757	1.3885	1.3314	1.2948	1.2919	AVRG		0.73766		1.3556	5	15	0.050	0.99	
Chloroform	2.2842	2.1476	2.0973	1.9996	2.2676	2.0790	1.9852	1.9363	1.9285	AVRG		0.48063		2.0806	6	15	0.050	0.99	
Bromochloromethane	0.6067	0.5749	0.6691	0.6530	0.7179	0.6770	0.6630	0.6456	0.6395	AVRG		1.53933		0.6496	6	15	0.050	0.99	
1,1,1-Trichloroethane	1.5382	1.3380	1.4097	1.3123	1.5694	1.4183	1.2786	1.4150	1.3598	AVRG		0.71206		1.4044	7	15	0.050	0.99	
1,1-Dichloropropene		0.8464	0.8545	0.7844	0.9696	0.8772	0.7903	0.8906	0.8336	AVRG		1.16848		0.8558	7	15	0.050	0.99	
Carbon Tetrachloride	0.5885	0.6530	0.6242	0.6013	0.7160	0.6544	0.5918	0.7006	0.6596	AVRG		1.55457		0.6433	7	15	0.050	0.99	
1,2-Dichloroethane	0.8293	0.7986	0.8341	0.8131	0.8524	0.8401	0.8103	0.7864	0.7733	AVRG		1.22654		0.8153	3	15	0.050	0.99	

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8260/6400 WICAL

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene	3.0139	2.9116	2.8380	2.6831	3.0934	2.8437	2.6781	2.6239	2.5732	AVRG		0.35631		2.8066	6	15	0.050	0.99	
Trichloroethene	0.6424	0.7013	0.6722	0.6397	0.7621	0.6744	0.6411	0.6550	0.6524	AVRG		1.48994		0.6712	6	15	0.050	0.99	
1,2-Dichloropropane	0.7500	0.7593	0.7931	0.7900	0.8703	0.8177	0.7816	0.7398	0.7111	AVRG		1.28334		0.7792	6	15	0.050	0.99	
Bromodichloromethane	0.8943	0.7953	0.8570	0.8382	0.9375	0.8949	0.8717	0.8475	0.8396	AVRG		1.15742		0.8640	5	15	0.050	0.99	
Dibromomethane		0.4906	0.4704	0.4889	0.5215	0.5072	0.5025	0.4835	0.4768	AVRG		2.02970		0.4927	3	15	0.050	0.99	
2-Chloroethylvinylether				0.2695	0.2943	0.3036	0.3038	0.3117	0.2821	AVRG		3.39941		0.2942	5	15	0.050	0.99	
4-Methyl-2-Pentanone				0.7157	0.7596	0.7684	0.7685	0.7654	0.6877	AVRG		1.34366		0.7442	5	15	0.050	0.99	
Tetramethyl THF	1.2705m	1.3148m	1.4218m	1.4064	1.4797	1.4998	1.4678	1.4003	1.2913	AVRG		0.71699		1.3947	6	15	0.050	0.99	
cis-1,3-Dichloropropene	1.1175	1.1143	1.1736	1.1236	1.2599	1.2038	1.1530	1.0983	1.0813	AVRG		0.87165		1.1472	5	15	0.050	0.99	
Toluene	1.6006	1.6032	1.5833	1.5613	1.7954	1.6527	1.5441	1.5705	1.5079	AVRG		0.62417		1.6021	5	15	0.050	0.99	
trans-1,3-Dichloropropene	0.9470	0.9700	0.9638	0.9784	1.0661	1.0496	1.0204	0.9928	0.9667	AVRG		1.00505		0.9950	4	15	0.050	0.99	
1,1,2-Trichloroethane	0.3316	0.3338	0.3538	0.3581	0.3725	0.3586	0.3529	0.3469	0.3364	AVRG		2.86210		0.3494	4	15	0.050	0.99	
2-Hexanone				0.5796	0.6335	0.6373	0.6542	0.6451	0.5993	AVRG		1.60042		0.6248	5	15	0.050	0.99	
1,3-Dichloropropane	1.3903	1.2848	1.3744	1.3693	1.4448	1.4144	1.3911	1.3378	1.3153	AVRG		0.73039		1.3691	4	15	0.050	0.99	
Tetrachloroethene	0.6198	0.7412	0.6500	0.6465	0.7799	0.6913	0.6285	0.7453	0.7215	AVRG		1.44603		0.6915	8	15	0.050	0.99	
Dibromochloromethane	0.8529	0.7490	0.8354	0.8527	0.8923	0.8714	0.8777	0.8489	0.8538	AVRG		1.17892		0.8482	5	15	0.050	0.99	
1,2-Dibromoethane	0.7080	0.6569	0.7022	0.7061	0.7459	0.7460	0.7333	0.7140	0.6910	AVRG		1.40548		0.7115	4	15	0.050	0.99	
Chlorobenzene	2.3658	2.3905	2.2882	2.1615	2.4230	2.2476	2.1710	2.1497	2.0933	AVRG		0.44355		2.2545	5	15	0.30	0.99	
1,1,1,2-Tetrachloroethane	0.7235	0.7582	0.7378	0.7465	0.8051	0.7601	0.7390	0.7205	0.7107	AVRG		1.34300		0.7446	4	15	0.050	0.99	
Ethylbenzene	3.6185	3.6820	3.6295	3.5753	4.0225	3.6497	3.3672	3.5124	3.2776	AVRG		0.27834		3.5927	6	15	0.050	0.99	
m,p-Xylenes	1.2131	1.3241	1.3859	1.3380	1.5192	1.3917	1.2771	1.3156	1.2349	AVRG		0.75002		1.3333	7	15	0.050	0.99	
o-Xylene	1.3537	1.3424	1.3738	1.3213	1.4941	1.3832	1.3124	1.3156	1.2719	AVRG		0.73963		1.3520	5	15	0.050	0.99	
Styrene	2.1298	2.1607	2.2832	2.3602	2.6155	2.4596	2.3903	2.3455	2.2826	AVRG		0.42801		2.3364	6	15	0.050	0.99	
Bromoform	0.6239	0.6283	0.5935	0.5888	0.6258	0.6248	0.6317	0.6176	0.6098	AVRG		1.62332		0.6160	3	15	0.10	0.99	
Isopropylbenzene	7.1021	7.3496	6.7485	6.6122	7.9115	7.1914	6.4550	7.4067	6.9653	AVRG		0.14119		7.0825	6	15	0.050	0.99	
1,1,2,2-Tetrachloroethane	2.4170	2.4824	2.5610	2.5053	2.5750	2.5306	2.4536	2.4768	2.3579	AVRG		0.40251		2.4844	3	15	0.30	0.99	
1,2,3-Trichloropropane		0.5796	0.6350	0.6042	0.6448	0.6337	0.6217	0.6148	0.5837	AVRG		1.62690		0.6147	4	15	0.050	0.99	
Propylbenzene	8.6272	9.5487	8.5541	8.5777	10.138	9.1856	8.0743	9.1880	8.5930	AVRG		0.11182		8.9430	7	15	0.050	0.99	
Bromobenzene	2.0653	2.1073	1.9658	1.9069	2.1252	2.0130	1.9683	1.9848	1.9819	AVRG		0.49673		2.0132	4	15	0.050	0.99	
1,3,5-Trimethylbenzene	5.4451	5.9822	5.5241	5.5387	6.4415	6.0374	5.4209	5.9357	5.6141	AVRG		0.17328		5.7711	6	15	0.050	0.99	
2-Chlorotoluene	6.0411	6.2109	6.2346	6.0006	6.8652	6.3441	5.9110	6.0647	5.8198	AVRG		0.16219		6.1658	5	15	0.050	0.99	
4-Chlorotoluene	6.0521	5.9535	5.8409	5.6779	6.3836	5.8608	5.5953	5.6436	5.4354	AVRG		0.17161		5.8270	5	15	0.050	0.99	
tert-Butylbenzene	4.6133	4.5704	4.3029	4.2818	5.0859	4.6801	3.9854	4.9093	4.5410	AVRG		0.21967		4.5522	7	15	0.050	0.99	
1,2,4-Trimethylbenzene	5.7529	5.4546	5.6523	5.7321	6.6000	6.1689	5.5963	5.9721	5.7916	AVRG		0.17071		5.8579	6	15	0.050	0.99	
sec-Butylbenzene	6.3269	7.1340	6.8308	6.4623	8.0864	7.4917	6.2483	7.8342	7.0884	AVRG		0.14173		7.0559	9	15	0.050	0.99	
para-Isopropyl Toluene	4.7325	5.0890	5.0645	5.0737	6.1937	5.7693	4.8890	5.9326	5.4757	AVRG		0.18664		5.3578	9	15	0.050	0.99	
1,3-Dichlorobenzene	3.6538	3.3866	3.4475	3.3958	3.7476	3.6270	3.4290	3.5404	3.4559	AVRG		0.28406		3.5204	4	15	0.050	0.99	
1,4-Dichlorobenzene	3.8617	3.4936	3.5871	3.5518	3.9129	3.7465	3.5556	3.6211	3.5730	AVRG		0.27353		3.6559	4	15	0.050	0.99	
n-Butylbenzene		4.4626	4.3192	4.5090	5.7479	5.3739	4.4574	5.4484	5.0420	AVRG		0.20325		4.9201	11	15	0.050	0.99	
1,2-Dichlorobenzene	3.5236	3.1587	3.2644	3.2004	3.5912	3.4082	3.2852	3.2980	3.2313	AVRG		0.30039		3.3290	4	15	0.050	0.99	
1,2-Dibromo-3-Chloropropane		0.2295	0.3467	0.3881	0.4033	0.3787	0.3535	0.3466	0.3306	AVRG		2.88076		0.3471	15	15	0.050	0.99	

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8260/6850 LW 10AL

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,4-Trichlorobenzene	1.0288	0.9366	1.1720	1.4340	1.7657	1.7322	1.6154	1.7073	1.7123	QUAD	0.08918	0.61412	-0.00018	1.4560	1.000	15	0.050	0.99	
Hexachlorobutadiene		0.4234	0.4849	0.5295	0.6576	0.5975	0.4074			QUAD	1.40058	0.64143	0.084895	0.5167	0.997	15	0.050	0.99	
Naphthalene	2.1084	1.8642	2.3828	3.1432	4.1607	4.1823	4.1587	4.2865	4.3310	QUAD	0.46551	0.24119	-2.65E-5	3.4020	1.000	15	0.050	0.99	
1,2,3-Trichlorobenzene	0.5461	0.8456	0.9142	1.2628	1.5665	1.5717	1.5047	1.5746	1.5909	QUAD	0.26613	0.66536	-0.00024	1.2641	1.000	15	0.050	0.99	
tert-Butyl Alcohol (TBA)		0.0358	0.0983m	0.1120m	0.1141m	0.1185m	0.1188m	0.1190m		LINR	3.33952	8.36346		0.1024	1.000	15	0.005	0.99	
Isopropyl Ether (DIPE)	4.9241	4.9064	5.0266	4.9688	5.5341	5.3384	5.1368	4.9361	4.7558	AVRG		0.19768		5.0586	5	15	0.050	0.99	
Ethyl tert-Butyl Ether (ETBE)	3.9775	3.5304	3.6401	3.5878	3.9811	3.8639	3.7349	3.6647	3.5747	AVRG		0.26822		3.7283	5	15	0.050	0.99	
Methyl tert-Amyl Ether (TAME)	1.9079	1.7981	1.9809	1.8300	2.0358	2.0396	1.9601	1.9399	1.9016	AVRG		0.51743		1.9326	4	15	0.050	0.99	
Cyclohexanone		0.1709	0.0901	0.1602	0.2641	0.2517	0.2532	0.2250	0.2640	LINR	12.2446	3.90681		0.2099	0.991	15	0.005	0.99	
Ethanol		0.0202m	0.0198m	0.0199	0.0194	0.0200	0.0195	0.0192	0.0170	AVRG		51.5867		0.0194	5	15	0.0005	0.99	
Isopropanol			0.0817m	0.0882m	0.0853	0.0887	0.0909	0.0874	0.0789	AVRG		11.6451		0.0859	5	15	0.005	0.99	
Tetrahydrofuran	0.4513	0.4187	0.3932	0.3752	0.4031	0.3829	0.3604	0.3470	0.3089	AVRG		2.61585		0.3823	11	15	0.005	0.99	
Dibromofluoromethane	0.5646	0.5804	0.5827	0.5747	0.5820	0.5753	0.5713	0.5714	0.5611	AVRG		1.74300		0.5737	1	15	0.050	0.99	
1,2-Dichloroethane-d4	0.3058	0.3161	0.3118	0.3122	0.3131	0.3134	0.3027	0.2992	0.2890	AVRG		3.25674		0.3071	3	15	0.050	0.99	
Trifluorotoluene	0.7919	0.8902	0.8251	0.7633	0.9175	0.8524	0.7623	0.9479	0.8847	AVRG		1.17875		0.8484	8	15	0.050	0.99	
Toluene-d8	0.9628	0.9588	0.9765	0.9666	0.9542	0.9636	0.9620	0.9744	0.9533	AVRG		1.03781		0.9636	1	15	0.050	0.99	
Bromofluorobenzene	1.1418	1.1407	1.1499	1.1360	1.1381	1.1495	1.1353	1.1453	1.1482	AVRG		0.87508		1.1428	0	15	0.050	0.99	

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m=manual integration for incomplete integration in Target

AVRG=Average response factor LINR=Linear regression QUAD=Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

486109916001

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH08.D
Report Date: 20-Mar-2006 09:43

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH08.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-MAR-2006 13:19 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2844,0.0005/1000,S2783,0.001/1000
Misc Info : S2410,0.0005/1000,0.25/0.5PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\826GOX9W.m
Meth Date : 20-Mar-2006 09:43 target Quant Type: ISTD
Cal Date : 17-MAR-2006 13:19 Cal File: ICH08.D
Als bottle: 8 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.163	4.163	(0.372)	5779	0.50000	0.5280(M)
2 Chloromethane	50	4.656	4.656	(0.416)	9400	0.50000	0.6361(M)
3 Vinyl Chloride	62	4.824	4.824	(0.431)	6894	0.50000	0.5184(M)
4 Bromomethane	94	5.543	5.543	(0.496)	1918	0.50000	0.3988(aM)
5 Chloroethane	64	5.741	5.741	(0.513)	3884	0.50000	0.5445(M)
6 Trichlorofluoromethane	101	6.184	6.184	(0.553)	7353	0.50000	0.5371
7 Ethanol	45	6.628	6.628	(0.593)	3216	25.0000	22.2708(M)
8 Freon 113	101	7.161	7.161	(0.640)	1171	0.25000	0.1516(a)
9 1,1-Dichloroethene	96	7.220	7.220	(0.646)	1769	0.25000	0.2267(a)
10 Acetone	43	7.417	7.417	(0.663)	1722	0.25000	0.4080(a)
11 Isopropanol	45	7.605	7.605	(0.680)	602	2.50000	0.9381
12 Carbon Disulfide	76	7.654	7.654	(0.684)	8768	0.25000	0.2536(a)
13 Methylene Chloride	84	8.196	8.196	(0.733)	3093	0.25000	0.2788(a)
14 tert-Butyl Alcohol (TBA)	59	8.315	8.315	(0.743)	336	2.50000	0.6350(M)
15 MTBE	73	8.542	8.542	(0.764)	6806	0.25000	0.2460(a)
16 trans-1,2-Dichloroethene	96	8.591	8.591	(0.768)	2457	0.25000	0.2519(a)

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH08.D
Report Date: 20-Mar-2006 09:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	9.331	9.331	(0.834)	9748	0.25000	0.2433(a)
	18 1,1-Dichloroethane	63	9.390	9.390	(0.840)	4195	0.25000	0.2380(a)
	19 Vinyl Acetate	43	9.409	9.409	(0.841)	6276	0.25000	0.2638(a)
	20 Ethyl tert-Butyl Ether (ETBE)	59	9.952	9.952	(0.890)	7874	0.25000	0.2667(a)
	21 2,2-Dichloropropane	77	10.356	10.356	(0.926)	2423	0.25000	0.2308(a)
	22 cis-1,2-Dichloroethene	96	10.396	10.396	(0.929)	2661	0.25000	0.2478(a)
	23 2-Butanone	43	10.406	10.406	(0.930)	1129	0.25000	0.2137(aM) m3/20/06
	24 Bromochloromethane	128	10.800	10.800	(0.966)	1201	0.25000	0.2334(a)
	25 Tetrahydrofuran	42	10.830	10.830	(0.968)	8934	2.50000	2.9512
	26 Chloroform	83	10.879	10.879	(0.973)	4522	0.25000	0.2744(a)
$	27 Dibromofluoromethane	113	11.165	11.165	(0.998)	223523	50.0000	49.2006
	28 1,1,1-Trichloroethane	97	11.175	11.175	(0.999)	3045	0.25000	0.2738(a)
*	29 Pentafluorobenzene	168	11.185	11.185	(1.000)	395930	50.0000	
	30 Carbon Tetrachloride	117	11.392	11.392	(0.917)	1965	0.25000	0.2287(a)
	31 1,1-Dichloropropene	75	11.441	11.441	(0.921)	2376	0.25000	0.2118(a)
$	32 1,2-Dichloroethane-d4	65	11.786	11.786	(0.948)	204194	50.0000	49.7935
	33 Benzene	78	11.786	11.786	(0.948)	10063	0.25000	0.2684(a)
	34 Methyl tert-Amyl Ether (TAME)	73	11.875	11.875	(0.956)	6370	0.25000	0.2467(a)
	35 1,2-Dichloroethane	62	11.924	11.924	(0.960)	2769	0.25000	0.2543(a)
*	36 1,4-Difluorobenzene	114	12.427	12.427	(1.000)	667763	50.0000	
	37 Trichloroethene	95	12.851	12.851	(1.034)	2145	0.25000	0.2393(a)
	38 1,2-Dichloropropane	63	13.305	13.305	(1.071)	2504	0.25000	0.2406(a)
$	39 Trifluorotoluene	146	13.325	13.325	(1.072)	2644	0.25000	0.2333(a)
	40 Dibromomethane	93	13.522	13.522	(1.088)	1219	0.25000	0.1907(a)
	41 Bromodichloromethane	83	13.729	13.729	(1.105)	2986	0.25000	0.2587(a)
	42 2-Chloroethylvinylether	63	14.193	14.193	(1.142)	1416	0.25000	0.3604(a)
	43 Tetramethyl THF	43	14.459	14.459	(1.163)	4242	0.25000	0.2387(aM) m3/20/06
	44 cis-1,3-Dichloropropene	75	14.469	14.469	(1.164)	3731	0.25000	0.2435(a)
	45 4-Methyl-2-Pentanone	43	14.686	14.686	(1.182)	1489	0.25000	0.1498(aM)
$	46 Toluene-d8	98	14.844	14.844	(1.194)	642891	50.0000	49.9577
	47 Toluene	92	14.952	14.952	(1.203)	5344	0.25000	0.2497(a)
	48 trans-1,3-Dichloropropene	75	15.347	15.347	(1.235)	3162	0.25000	0.2379(a)
	49 1,1,2-Trichloroethane	85	15.642	15.642	(1.259)	1107	0.25000	0.2372(a)
	50 Tetrachloroethene	166	15.751	15.751	(0.927)	1662	0.25000	0.2240(a)
	51 1,3-Dichloropropane	76	15.899	15.899	(0.936)	3728	0.25000	0.2538(a)
	52 2-Hexanone	43	15.948	15.948	(0.939)	532	0.25000	0.0793(a)
	53 Dibromochloromethane	129	16.195	16.195	(0.954)	2287	0.25000	0.2513(a)
	54 1,2-Dibromoethane	107	16.402	16.402	(1.320)	2364	0.25000	0.2487(a)
*	55 Chlorobenzene-d5	117	16.984	16.984	(1.000)	536304	50.0000	
	56 Chlorobenzene	112	17.023	17.023	(1.002)	6344	0.25000	0.2623(a)
	57 Ethylbenzene	91	17.102	17.102	(1.007)	9703	0.25000	0.2517(a)
	58 1,1,1,2-Tetrachloroethane	131	17.122	17.122	(1.008)	1940	0.25000	0.2429(a)
	59 m,p-Xylenes	106	17.260	17.260	(1.016)	6506	0.50000	0.4549(a)
	60 o-Xylene	106	17.782	17.782	(1.047)	3630	0.25000	0.2503(a)
	61 Styrene	104	17.812	17.812	(1.049)	5711	0.25000	0.2278(a)
	62 Bromoform	173	18.098	18.098	(1.066)	1673	0.25000	0.2531(a)
	63 Isopropylbenzene	105	18.207	18.207	(0.919)	8401	0.25000	0.2506(a)

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH08.D
Report Date: 20-Mar-2006 09:43

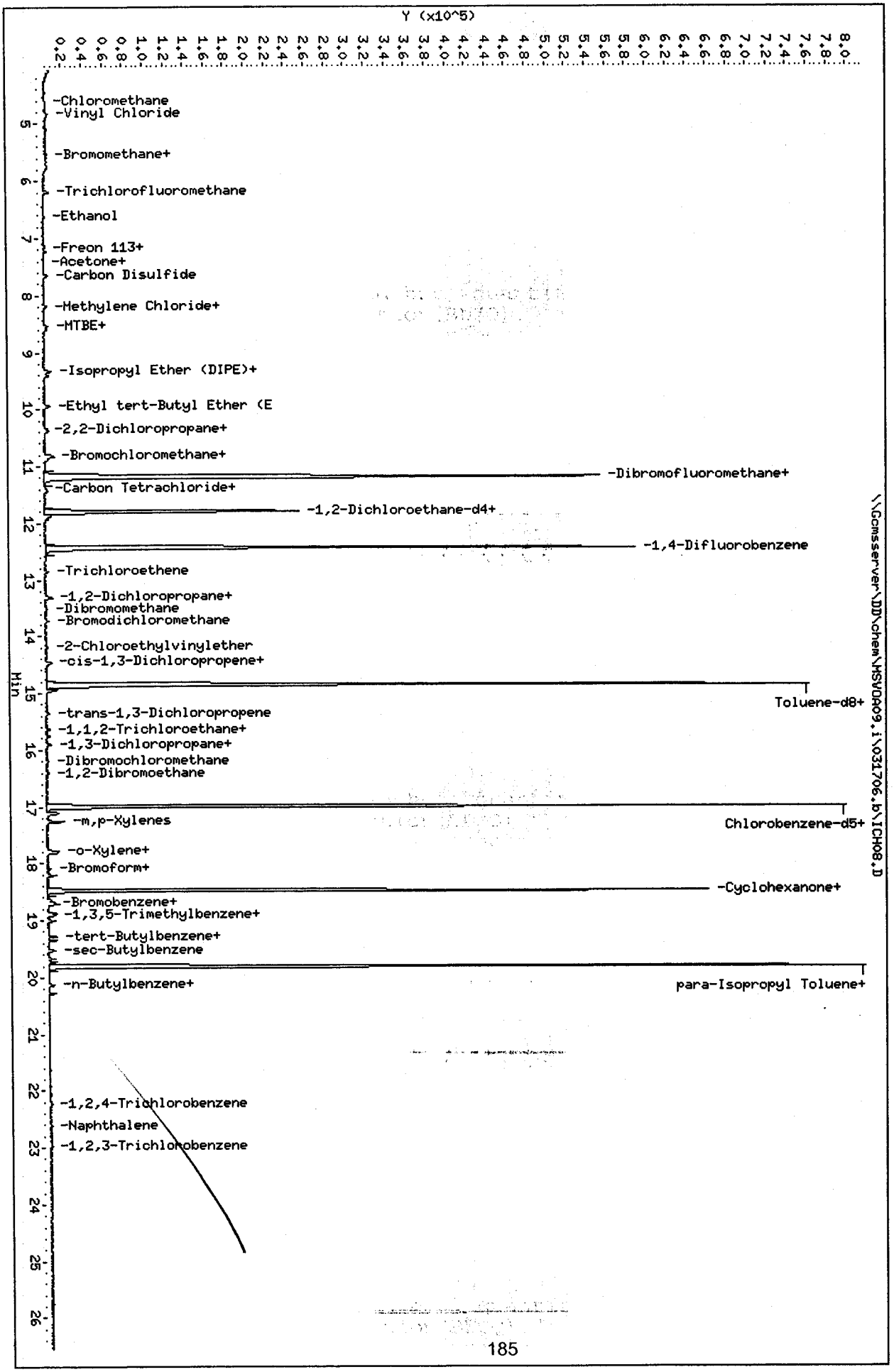
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone	55	18.463	18.463	(0.932)	2140	2.50000	2.1546
$ 65 Bromofluorobenzene	95	18.473	18.473	(0.933)	270125	50.0000	49.9581
66 1,1,2,2-Tetrachloroethane	83	18.631	18.631	(0.941)	2859	0.25000	0.2432(a)
67 Bromobenzene	156	18.680	18.680	(0.943)	2443	0.25000	0.2564(a)
68 Propylbenzene	91	18.710	18.710	(0.945)	10205	0.25000	0.2411(a)
69 1,2,3-Trichloropropane	110	18.710	18.710	(0.945)	584	0.25000	0.2052(a)
70 2-Chlorotoluene	91	18.867	18.867	(0.953)	7146	0.25000	0.2449(a)
71 1,3,5-Trimethylbenzene	105	18.907	18.907	(0.955)	6441	0.25000	0.2358(a)
72 4-Chlorotoluene	91	18.996	18.996	(0.959)	7159	0.25000	0.2596(a)
73 tert-Butylbenzene	119	19.282	19.282	(0.974)	5457	0.25000	0.2533(a)
74 1,2,4-Trimethylbenzene	105	19.341	19.341	(0.977)	6805	0.25000	0.2455(a)
75 sec-Butylbenzene	105	19.518	19.518	(0.986)	7484	0.25000	0.2241(a)
76 para-Isopropyl Toluene	119	19.666	19.666	(0.993)	5598	0.25000	0.2208(a)
77 1,3-Dichlorobenzene	146	19.725	19.725	(0.996)	4322	0.25000	0.2594(a)
* 78 1,4-Dichlorobenzene-d4	152	19.804	19.804	(1.000)	236578	50.0000	
79 1,4-Dichlorobenzene	146	19.834	19.834	(1.001)	4568	0.25000	0.2640(a)
80 n-Butylbenzene	91	20.130	20.130	(1.016)	4495	0.25000	0.1980(a)
81 1,2-Dichlorobenzene	146	20.278	20.278	(1.024)	4168	0.25000	0.2646(a)
83 1,2,4-Trichlorobenzene	180	22.220	22.220	(1.122)	1217	0.25000	0.1766(a)
85 Naphthalene	128	22.605	22.605	(1.141)	2494	0.25000	0.1549(a)
86 1,2,3-Trichlorobenzene	180	22.970	22.970	(1.160)	646	0.25000	0.1080(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\HSVOA09.i\031706.b\ICH08.D
Date : 17-MAR-2006 13:19
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.0005/1000,S2783,0.001/1000
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA09.i
Operator: VOC
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH09.D
Report Date: 20-Mar-2006 09:43

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH09.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-MAR-2006 13:53 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2844,0.001/1000,S2783,0.002/1000
Misc Info : S2410,0.001/1000,0.5/1PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\826GOX9W.m
Meth Date : 20-Mar-2006 09:43 target Quant Type: ISTD
Cal Date : 17-MAR-2006 13:19 Cal File: ICH08.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.160	4.160	(0.372)	11672	1.00000	1.0179(M)
2 Chloromethane	50	4.653	4.653	(0.416)	18561	1.00000	1.1390(M)
3 Vinyl Chloride	62	4.821	4.821	(0.431)	13953	1.00000	1.0247(M)
4 Bromomethane	94	5.551	5.551	(0.496)	3439	1.00000	0.6740(M)
5 Chloroethane	64	5.758	5.758	(0.515)	7599	1.00000	1.0478
6 Trichlorofluoromethane	101	6.192	6.192	(0.554)	15144	1.00000	1.0881
7 Ethanol	45	6.626	6.626	(0.593)	8132	50.0000	54.9319(M)
8 Freon 113	101	7.148	7.148	(0.639)	4145	0.50000	0.5279
9 1,1-Dichloroethene	96	7.227	7.227	(0.646)	3985	0.50000	0.5024
10 Acetone	43	7.395	7.395	(0.661)	2914	0.50000	0.6791
11 Isopropanol	45	7.602	7.602	(0.680)	2171	5.00000	3.3278(M)
12 Carbon Disulfide	76	7.651	7.651	(0.684)	17897	0.50000	0.5092
13 Methylene Chloride	84	8.194	8.194	(0.733)	5972	0.50000	0.5296
14 tert-Butyl Alcohol (TBA)	59	8.312	8.312	(0.743)	1443	5.00000	2.6823
15 MTBE	73	8.539	8.539	(0.764)	13461	0.50000	0.4787(a)
16 trans-1,2-Dichloroethene	96	8.588	8.588	(0.768)	5110	0.50000	0.5153

n 3/20/06

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH09.D
Report Date: 20-Mar-2006 09:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	9.318	9.318	(0.833)	19750	0.50000	0.4849(a)
	18 1,1-Dichloroethane	63	9.397	9.397	(0.840)	8728	0.50000	0.4870(a)
	19 Vinyl Acetate	43	9.407	9.407	(0.841)	11852	0.50000	0.4900(aM)
	20 Ethyl tert-Butyl Ether (ETBE)	59	9.939	9.939	(0.889)	14211	0.50000	0.4734(a)
	21 2,2-Dichloropropane	77	10.354	10.354	(0.926)	5199	0.50000	0.4871(a)
	22 cis-1,2-Dichloroethene	96	10.383	10.383	(0.929)	5428	0.50000	0.4973(a)
	23 2-Butanone	43	10.403	10.403	(0.930)	2361	0.50000	0.4397(a)
	24 Bromochloromethane	128	10.797	10.797	(0.966)	2314	0.50000	0.4424(a)
	25 Tetrahydrofuran	42	10.817	10.817	(0.967)	16853	5.00000	5.4759
	26 Chloroform	83	10.886	10.886	(0.974)	8645	0.50000	0.5161
$	27 Dibromofluoromethane	113	11.162	11.162	(0.998)	233617	50.0000	50.5786
	28 1,1,1-Trichloroethane	97	11.172	11.172	(0.999)	5386	0.50000	0.4763(a)
*	29 Pentafluorobenzene	168	11.182	11.182	(1.000)	402536	50.0000	
	30 Carbon Tetrachloride	117	11.399	11.399	(0.917)	4487	0.50000	0.5075
	31 1,1-Dichloropropene	75	11.439	11.439	(0.921)	5816	0.50000	0.5039
$	32 1,2-Dichloroethane-d4	65	11.784	11.784	(0.948)	217207	50.0000	51.4698
	33 Benzene	78	11.794	11.794	(0.949)	20008	0.50000	0.5187
	34 Methyl tert-Amyl Ether (TAME)	73	11.872	11.872	(0.956)	12356	0.50000	0.4651(a)
	35 1,2-Dichloroethane	62	11.922	11.922	(0.960)	5488	0.50000	0.4897(a)
*	36 1,4-Difluorobenzene	114	12.425	12.425	(1.000)	687185	50.0000	
	37 Trichloroethene	95	12.849	12.849	(1.034)	4819	0.50000	0.5224
	38 1,2-Dichloropropane	63	13.312	13.312	(1.071)	5218	0.50000	0.4872(a)
$	39 Trifluorotoluene	146	13.312	13.312	(1.071)	6117	0.50000	0.5246
	40 Dibromomethane	93	13.519	13.519	(1.088)	3371	0.50000	0.5125
	41 Bromodichloromethane	83	13.727	13.727	(1.105)	5465	0.50000	0.4602(a)
	42 2-Chloroethylvinylether	63	14.190	14.190	(1.142)	3131	1.00000	0.7744
	43 Tetramethyl THF	43	14.466	14.466	(1.164)	9035	0.50000	0.4888(aM)
	44 cis-1,3-Dichloropropene	75	14.476	14.476	(1.165)	7657	0.50000	0.4856(a)
	45 4-Methyl-2-Pentanone	43	14.693	14.693	(1.183)	4295	0.50000	0.4199(aM)
$	46 Toluene-d8	98	14.841	14.841	(1.194)	658902	50.0000	49.7548
	47 Toluene	92	14.949	14.949	(1.203)	11017	0.50000	0.5003
	48 trans-1,3-Dichloropropene	75	15.354	15.354	(1.236)	6666	0.50000	0.4874(a)
	49 1,1,2-Trichloroethane	85	15.630	15.630	(1.258)	2294	0.50000	0.4777(a)
	50 Tetrachloroethene	166	15.748	15.748	(0.927)	4065	0.50000	0.5359
	51 1,3-Dichloropropane	76	15.906	15.906	(0.937)	7046	0.50000	0.4691(a)
	52 2-Hexanone	43	15.955	15.955	(0.940)	2649	0.50000	0.3865(a)
	53 Dibromochloromethane	129	16.192	16.192	(0.954)	4108	0.50000	0.4415(a)
	54 1,2-Dibromoethane	107	16.399	16.399	(1.320)	4514	0.50000	0.4616(a)
*	55 Chlorobenzene-d5	117	16.981	16.981	(1.000)	548430	50.0000	
	56 Chlorobenzene	112	17.021	17.021	(1.002)	13110	0.50000	0.5301
	57 Ethylbenzene	91	17.099	17.099	(1.007)	20193	0.50000	0.5124
	58 1,1,1,2-Tetrachloroethane	131	17.129	17.129	(1.009)	4158	0.50000	0.5091
	59 m,p-Xylenes	106	17.257	17.257	(1.016)	14523	1.00000	0.9930
	60 o-Xylene	106	17.790	17.790	(1.048)	7362	0.50000	0.4964(a)
	61 Styrene	104	17.810	17.810	(1.049)	11850	0.50000	0.4624(a)
	62 Bromoform	173	18.096	18.096	(1.066)	3446	0.50000	0.5099
	63 Isopropylbenzene	105	18.214	18.214	(0.920)	17930	0.50000	0.5188

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH09.D
Report Date: 20-Mar-2006 09:43

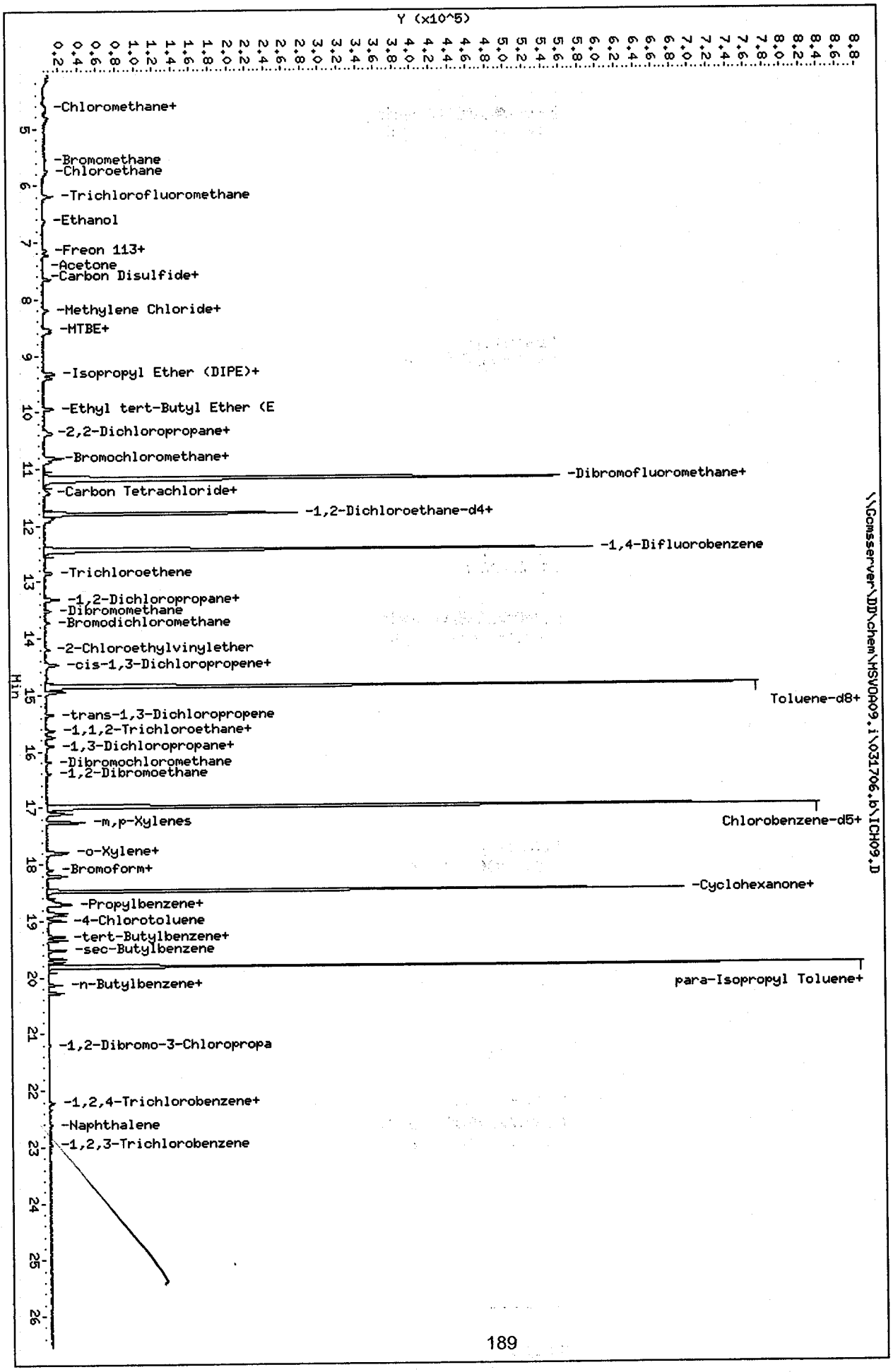
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone	55	18.460	18.460	(0.932)	4169	5.00000	4.0704
$ 65 Bromofluorobenzene	95	18.470	18.470	(0.933)	278287	50.0000	49.9105
66 1,1,2,2-Tetrachloroethane	83	18.628	18.628	(0.941)	6056	0.50000	0.4995(a)
67 Bromobenzene	156	18.668	18.668	(0.943)	5141	0.50000	0.5233
68 Propylbenzene	91	18.707	18.707	(0.945)	23295	0.50000	0.5338
69 1,2,3-Trichloropropane	110	18.717	18.717	(0.945)	1414	0.50000	0.4820(a)
70 2-Chlorotoluene	91	18.865	18.865	(0.953)	15152	0.50000	0.5036
71 1,3,5-Trimethylbenzene	105	18.904	18.904	(0.955)	14594	0.50000	0.5182
72 4-Chlorotoluene	91	19.003	19.003	(0.960)	14524	0.50000	0.5108
73 tert-Butylbenzene	119	19.279	19.279	(0.974)	11150	0.50000	0.5019
74 1,2,4-Trimethylbenzene	105	19.338	19.338	(0.977)	13307	0.50000	0.4655(a)
75 sec-Butylbenzene	105	19.516	19.516	(0.986)	17404	0.50000	0.5055
76 para-Isopropyl Toluene	119	19.664	19.664	(0.993)	12415	0.50000	0.4749(a)
77 1,3-Dichlorobenzene	146	19.733	19.733	(0.997)	8262	0.50000	0.4810(a)
* 78 1,4-Dichlorobenzene-d4	152	19.802	19.802	(1.000)	243959	50.0000	
79 1,4-Dichlorobenzene	146	19.831	19.831	(1.001)	8523	0.50000	0.4778(a)
80 n-Butylbenzene	91	20.127	20.127	(1.016)	10887	0.50000	0.4652(a)
81 1,2-Dichlorobenzene	146	20.275	20.275	(1.024)	7706	0.50000	0.4744(a)
82 1,2-Dibromo-3-Chloropropane	75	21.202	21.202	(1.071)	560	0.50000	0.3306(a)
83 1,2,4-Trichlorobenzene	180	22.218	22.218	(1.122)	2285	0.50000	0.3216(a)
84 Hexachlorobutadiene	225	22.336	22.336	(1.128)	1033	0.50000	0.4044(a)
85 Naphthalene	128	22.612	22.612	(1.142)	4548	0.50000	0.2739(a)
86 1,2,3-Trichlorobenzene	180	22.958	22.958	(1.159)	2063	0.50000	0.3344(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA09.i\031706.b\ICH09.D
Date : 17-MAR-2006 13:53
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.001/1000,S2783,0.002/1000
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: VOC
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH10.D
Report Date: 20-Mar-2006 09:43

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH10.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-MAR-2006 14:29 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2844,0.002/500,S2783,0.002/500
Misc Info : S2410,0.001/500,2PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\826GOX9W.m
Meth Date : 20-Mar-2006 09:43 target Quant Type: ISTD
Cal Date : 17-MAR-2006 13:19 Cal File: ICH08.D
Als bottle: 10 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.170	4.170	(0.373)	20080	2.00000	1.6582(M)
2 Chloromethane	50	4.653	4.653	(0.416)	37066	2.00000	2.0345(M)
3 Vinyl Chloride	62	4.821	4.821	(0.431)	27160	2.00000	1.8918(M)
4 Bromomethane	94	5.541	5.541	(0.496)	9632	2.00000	1.7630(M)
5 Chloroethane	64	5.758	5.758	(0.515)	15098	2.00000	1.9883
6 Trichlorofluoromethane	101	6.192	6.192	(0.554)	25437	2.00000	1.7455
7 Ethanol	45	6.626	6.626	(0.593)	33404	200.000	208.1704(M)
8 Freon 113	101	7.148	7.148	(0.639)	15388	2.00000	1.8719
9 1,1-Dichloroethene	96	7.227	7.227	(0.646)	16397	2.00000	1.9746
10 Acetone	43	7.405	7.405	(0.662)	7348	2.00000	1.6356
11 Isopropanol	45	7.592	7.592	(0.679)	13779	20.0000	19.5471(M)
12 Carbon Disulfide	76	7.651	7.651	(0.684)	73928	2.00000	2.0089
13 Methylene Chloride	84	8.194	8.194	(0.733)	24721	2.00000	2.0938
14 tert-Butyl Alcohol (TBA)	59	8.302	8.302	(0.742)	16576	20.0000	26.4092(M)
15 MTBE	73	8.539	8.539	(0.764)	58594	2.00000	1.9902
16 trans-1,2-Dichloroethene	96	8.598	8.598	(0.769)	19894	2.00000	1.9160

N 3/20/06

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH10.D
Report Date: 20-Mar-2006 09:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	9.328	9.328	(0.834)	84744	2.00000	1.9873
	18 1,1-Dichloroethane	63	9.397	9.397	(0.840)	39097	2.00000	2.0838
	19 Vinyl Acetate	43	9.407	9.407	(0.841)	54515	2.00000	2.1284 (M)
	20 Ethyl tert-Butyl Ether (ETBE)	59	9.939	9.939	(0.889)	61368	2.00000	1.9526
	21 2,2-Dichloropropane	77	10.354	10.354	(0.926)	22967	2.00000	2.0552
	22 cis-1,2-Dichloroethene	96	10.383	10.383	(0.929)	23922	2.00000	2.0933
	23 2-Butanone	43	10.403	10.403	(0.930)	10690	2.00000	1.9015
	24 Bromochloromethane	128	10.807	10.807	(0.966)	11281	2.00000	2.0600
	25 Tetrahydrofuran	42	10.817	10.817	(0.967)	66288	20.0000	20.5704
	26 Chloroform	83	10.876	10.876	(0.973)	35358	2.00000	2.0160
$	27 Dibromofluoromethane	113	11.162	11.162	(0.998)	245599	50.0000	50.7832
	28 1,1,1-Trichloroethane	97	11.182	11.182	(1.000)	23767	2.00000	2.0076
*	29 Pentafluorobenzene	168	11.182	11.182	(1.000)	421477	50.0000	
	30 Carbon Tetrachloride	117	11.399	11.399	(0.917)	17801	2.00000	1.9407
	31 1,1-Dichloropropene	75	11.439	11.439	(0.921)	24368	2.00000	2.0349
$	32 1,2-Dichloroethane-d4	65	11.784	11.784	(0.948)	222299	50.0000	50.7728
	33 Benzene	78	11.794	11.794	(0.949)	80935	2.00000	2.0224
	34 Methyl tert-Amyl Ether (TAME)	73	11.872	11.872	(0.956)	56491	2.00000	2.0499
	35 1,2-Dichloroethane	62	11.922	11.922	(0.960)	23787	2.00000	2.0461
*	36 1,4-Difluorobenzene	114	12.425	12.425	(1.000)	712949	50.0000	
	37 Trichloroethene	95	12.849	12.849	(1.034)	19169	2.00000	2.0029
	38 1,2-Dichloropropane	63	13.312	13.312	(1.071)	22618	2.00000	2.0356
$	39 Trifluorotoluene	146	13.322	13.322	(1.072)	23531	2.00000	1.9452
	40 Dibromomethane	93	13.519	13.519	(1.088)	13415	2.00000	1.9661
	41 Bromodichloromethane	83	13.727	13.727	(1.105)	24440	2.00000	1.9838
	42 2-Chloroethylvinylether	63	14.200	14.200	(1.143)	7877	2.00000	1.8779
	43 Tetramethyl THF	43	14.456	14.456	(1.164)	40547	2.00000	2.0388 (M)
	44 cis-1,3-Dichloropropene	75	14.476	14.476	(1.165)	33470	2.00000	2.0460
	45 4-Methyl-2-Pentanone	43	14.683	14.683	(1.182)	19189	2.00000	1.8082
$	46 Toluene-d8	98	14.841	14.841	(1.194)	696190	50.0000	50.6707
	47 Toluene	92	14.949	14.949	(1.203)	45153	2.00000	1.9765
	48 trans-1,3-Dichloropropene	75	15.354	15.354	(1.236)	27485	2.00000	1.9372
	49 1,1,2-Trichloroethane	85	15.630	15.630	(1.258)	10090	2.00000	2.0252
	50 Tetrachloroethene	166	15.748	15.748	(0.927)	14769	2.00000	1.8797
	51 1,3-Dichloropropane	76	15.906	15.906	(0.937)	31231	2.00000	2.0077
	52 2-Hexanone	43	15.965	15.965	(0.940)	11682	2.00000	1.6455
	53 Dibromochloromethane	129	16.192	16.192	(0.954)	18984	2.00000	1.9698
	54 1,2-Dibromoethane	107	16.399	16.399	(1.320)	20026	2.00000	1.9739
*	55 Chlorobenzene-d5	117	16.981	16.981	(1.000)	568080	50.0000	
	56 Chlorobenzene	112	17.021	17.021	(1.002)	51996	2.00000	2.0299
	57 Ethylbenzene	91	17.099	17.099	(1.007)	82473	2.00000	2.0204
	58 1,1,1,2-Tetrachloroethane	131	17.119	17.119	(1.008)	16766	2.00000	1.9818
	59 m,p-Xylenes	106	17.257	17.257	(1.016)	62985	4.00000	4.1578
	60 o-Xylene	106	17.780	17.780	(1.047)	31216	2.00000	2.0321
	61 Styrene	104	17.810	17.810	(1.049)	51882	2.00000	1.9545
	62 Bromoform	173	18.105	18.105	(1.066)	13486	2.00000	1.9268
	63 Isopropylbenzene	105	18.214	18.214	(0.920)	68488	2.00000	1.9057

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH10.D
Report Date: 20-Mar-2006 09:43

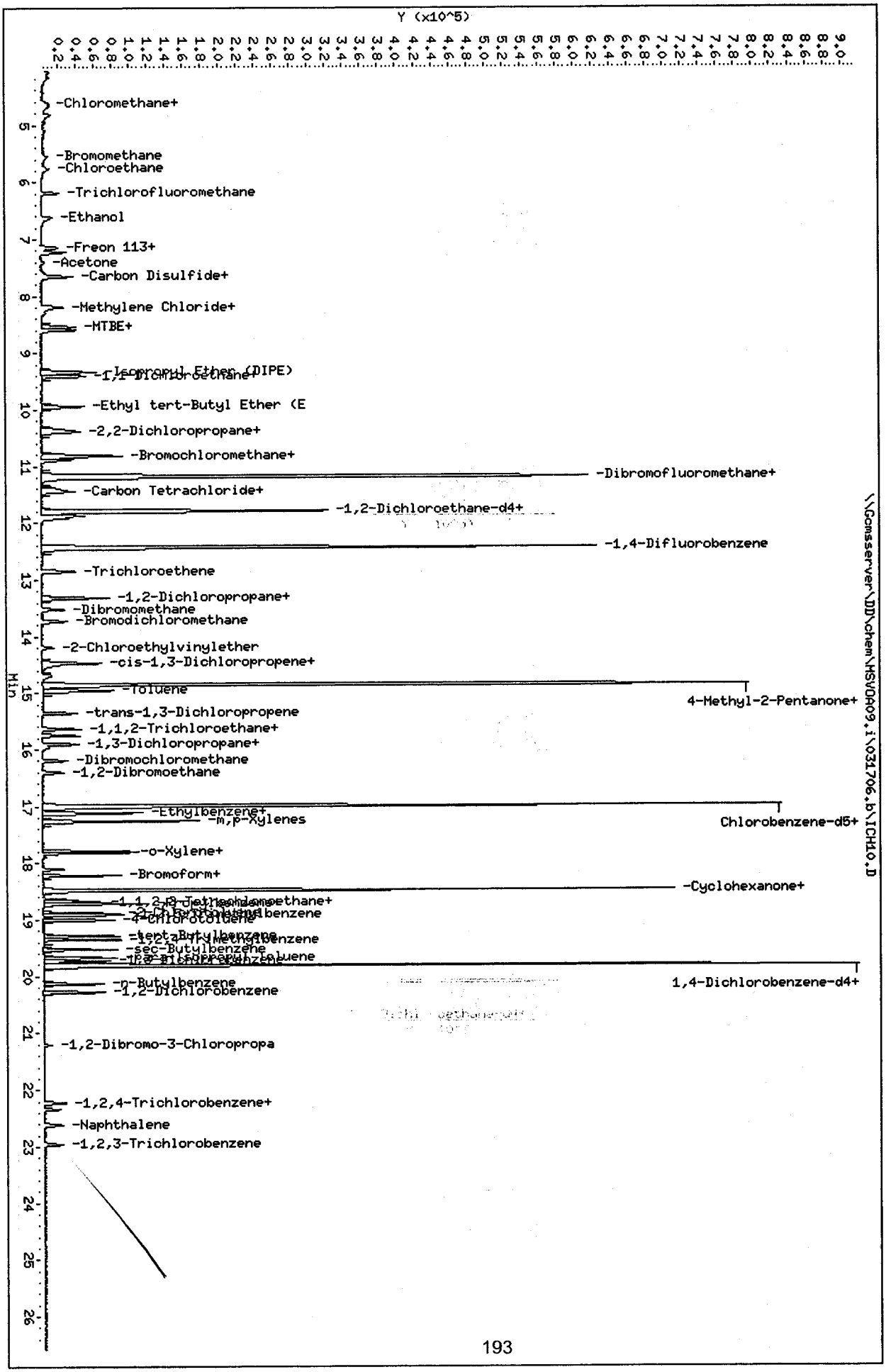
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone	55	18.460	18.460	(0.932)	9140	20.0000	8.5808
$ 65 Bromofluorobenzene	95	18.470	18.470	(0.933)	291754	50.0000	50.3139
66 1,1,2,2-Tetrachloroethane	83	18.638	18.638	(0.941)	25990	2.00000	2.0616
67 Bromobenzene	156	18.677	18.677	(0.943)	19950	2.00000	1.9529
68 Propylbenzene	91	18.707	18.707	(0.945)	86812	2.00000	1.9130
69 1,2,3-Trichloropropane	110	18.717	18.717	(0.945)	6444	2.00000	2.1122
70 2-Chlorotoluene	91	18.865	18.865	(0.953)	63272	2.00000	2.0223
71 1,3,5-Trimethylbenzene	105	18.904	18.904	(0.955)	56062	2.00000	1.9144
72 4-Chlorotoluene	91	19.003	19.003	(0.960)	59277	2.00000	2.0047
73 tert-Butylbenzene	119	19.279	19.279	(0.974)	43668	2.00000	1.8904
74 1,2,4-Trimethylbenzene	105	19.348	19.348	(0.977)	57363	2.00000	1.9298
75 sec-Butylbenzene	105	19.526	19.526	(0.986)	69323	2.00000	1.9362
76 para-Isopropyl Toluene	119	19.664	19.664	(0.993)	51397	2.00000	1.8905
77 1,3-Dichlorobenzene	146	19.723	19.723	(0.996)	34987	2.00000	1.9585
* 78 1,4-Dichlorobenzene-d4	152	19.802	19.802	(1.000)	253714	50.0000	
79 1,4-Dichlorobenzene	146	19.831	19.831	(1.001)	36404	2.00000	1.9623
80 n-Butylbenzene	91	20.127	20.127	(1.016)	43834	2.00000	1.8013
81 1,2-Dichlorobenzene	146	20.275	20.275	(1.024)	33129	2.00000	1.9611
82 1,2-Dibromo-3-Chloropropane	75	21.202	21.202	(1.071)	3519	2.00000	1.9978
83 1,2,4-Trichlorobenzene	180	22.228	22.228	(1.123)	11894	2.00000	1.6098
84 Hexachlorobutadiene	225	22.346	22.346	(1.128)	4921	2.00000	1.8528
85 Naphthalene	128	22.612	22.612	(1.142)	24182	2.00000	1.4008
86 1,2,3-Trichlorobenzene	180	22.958	22.958	(1.159)	9278	2.00000	1.4463

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Ccmsserver\DD\chem\MSVOA09.i\031706.b\ICH10.D
Date : 17-MAR-2006 14:29
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.002/500,S2783,0.002/500
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: VOC
Column diameter: 0.25



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Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH11.D
Report Date: 20-Mar-2006 09:43

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH11.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-MAR-2006 15:04 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2844,0.005/500,S2783,0.005/500
Misc Info : S2410,0.0025/500,5PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\826GOX9W.m
Meth Date : 20-Mar-2006 09:43 target Quant Type: ISTD
Cal Date : 17-MAR-2006 13:19 Cal File: ICH08.D
Als bottle: 11 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.160	4.160	(0.372)	54136	5.00000	4.4256
2 Chloromethane	50	4.663	4.663	(0.417)	88223	5.00000	4.7938
3 Vinyl Chloride	62	4.821	4.821	(0.431)	65977	5.00000	4.5493
4 Bromomethane	94	5.551	5.551	(0.496)	23639	5.00000	4.2091 (M)
5 Chloroethane	64	5.758	5.758	(0.515)	37687	5.00000	4.6829 (M)
6 Trichlorofluoromethane	101	6.192	6.192	(0.554)	64098	5.00000	4.3543
7 Ethanol	45	6.616	6.616	(0.592)	84616	500.000	522.0090
8 Freon 113	101	7.149	7.149	(0.639)	35661	5.00000	4.2945
9 1,1-Dichloroethene	96	7.228	7.228	(0.646)	38253	5.00000	4.5603
10 Acetone	43	7.405	7.405	(0.662)	19549	5.00000	4.3076
11 Isopropanol	45	7.592	7.592	(0.679)	37558	50.0000	51.3626 (M)
12 Carbon Disulfide	76	7.652	7.652	(0.684)	169841	5.00000	4.5687
13 Methylene Chloride	84	8.194	8.194	(0.733)	58060	5.00000	4.8681
14 tert-Butyl Alcohol (TBA)	59	8.293	8.293	(0.742)	47687	50.0000	70.1060 (M)
15 MTBE	73	8.539	8.539	(0.764)	143982	5.00000	4.8414
16 trans-1,2-Dichloroethene	96	8.589	8.589	(0.768)	51075	5.00000	4.8695

n-propanol

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH11.D
Report Date: 20-Mar-2006 09:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	9.318	9.318	(0.833)	211552	5.00000	4.9112
	18 1,1-Dichloroethane	63	9.397	9.397	(0.840)	93974	5.00000	4.9583
	19 Vinyl Acetate	43	9.397	9.397	(0.840)	129871	5.00000	5.0195
	20 Ethyl tert-Butyl Ether (ETBE)	59	9.940	9.940	(0.889)	152756	5.00000	4.8115
	21 2,2-Dichloropropane	77	10.354	10.354	(0.926)	55333	5.00000	4.9017
	22 cis-1,2-Dichloroethene	96	10.383	10.383	(0.929)	55645	5.00000	4.8204
	23 2-Butanone	43	10.403	10.403	(0.930)	27385	5.00000	4.8221
	24 Bromochloromethane	128	10.798	10.798	(0.966)	27803	5.00000	5.0260
	25 Tetrahydrofuran	42	10.817	10.817	(0.967)	159743	50.0000	49.0722
	26 Chloroform	83	10.877	10.877	(0.973)	85134	5.00000	4.8052
$	27 Dibromofluoromethane	113	11.163	11.163	(0.998)	244701	50.0000	50.0880
	28 1,1,1-Trichloroethane	97	11.172	11.172	(0.999)	55874	5.00000	4.6722
*	29 Pentafluorobenzene	168	11.182	11.182	(1.000)	425764	50.0000	
	30 Carbon Tetrachloride	117	11.399	11.399	(0.917)	43797	5.00000	4.6735
	31 1,1-Dichloropropene	75	11.439	11.439	(0.921)	57136	5.00000	4.6701
$	32 1,2-Dichloroethane-d4	65	11.784	11.784	(0.948)	227439	50.0000	50.8437
	33 Benzene	78	11.794	11.794	(0.949)	195445	5.00000	4.7801
	34 Methyl tert-Amyl Ether (TAME)	73	11.863	11.863	(0.955)	133300	5.00000	4.7344
	35 1,2-Dichloroethane	62	11.912	11.912	(0.959)	59228	5.00000	4.9865
*	36 1,4-Difluorobenzene	114	12.425	12.425	(1.000)	728417	50.0000	
	37 Trichloroethene	95	12.849	12.849	(1.034)	46596	5.00000	4.7654
	38 1,2-Dichloropropane	63	13.303	13.303	(1.071)	57543	5.00000	5.0690
$	39 Trifluorotoluene	146	13.322	13.322	(1.072)	55597	5.00000	4.4984
	40 Dibromomethane	93	13.510	13.510	(1.087)	35615	5.00000	5.1089
	41 Bromodichloromethane	83	13.727	13.727	(1.105)	61057	5.00000	4.8508
	42 2-Chloroethylvinylether	63	14.190	14.190	(1.142)	19629	5.00000	4.5802
	43 Tetramethyl THF	43	14.457	14.457	(1.164)	102441	5.00000	5.0417
	44 cis-1,3-Dichloropropene	75	14.476	14.476	(1.165)	81848	5.00000	4.8971
	45 4-Methyl-2-Pentanone	43	14.683	14.683	(1.182)	52132	5.00000	4.8082
$	46 Toluene-d8	98	14.841	14.841	(1.194)	704054	50.0000	50.1549
	47 Toluene	92	14.950	14.950	(1.203)	113728	5.00000	4.8726
	48 trans-1,3-Dichloropropene	75	15.354	15.354	(1.236)	71271	5.00000	4.9168
	49 1,1,2-Trichloroethane	85	15.630	15.630	(1.258)	26085	5.00000	5.1246
	50 Tetrachloroethene	166	15.749	15.749	(0.927)	37456	5.00000	4.6741
	51 1,3-Dichloropropane	76	15.896	15.896	(0.936)	79334	5.00000	5.0005
	52 2-Hexanone	43	15.946	15.946	(0.939)	33582	5.00000	4.6381
	53 Dibromochloromethane	129	16.192	16.192	(0.954)	49404	5.00000	5.0263
	54 1,2-Dibromoethane	107	16.399	16.399	(1.320)	51437	5.00000	4.9623
*	55 Chlorobenzene-d5	117	16.981	16.981	(1.000)	579378	50.0000	
	56 Chlorobenzene	112	17.021	17.021	(1.002)	125234	5.00000	4.7937
	57 Ethylbenzene	91	17.100	17.100	(1.007)	207143	5.00000	4.9757
	58 1,1,1,2-Tetrachloroethane	131	17.119	17.119	(1.008)	43251	5.00000	5.0127
	59 m,p-Xylenes	106	17.257	17.257	(1.016)	155047	10.0000	10.0356
	60 o-Xylene	106	17.780	17.780	(1.047)	76553	5.00000	4.8863
	61 Styrene	104	17.810	17.810	(1.049)	136747	5.00000	5.0510
	62 Bromoform	173	18.106	18.106	(1.066)	34111	5.00000	4.7786
	63 Isopropylbenzene	105	18.214	18.214	(0.920)	175889	5.00000	4.6679

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH11.D
Report Date: 20-Mar-2006 09:43

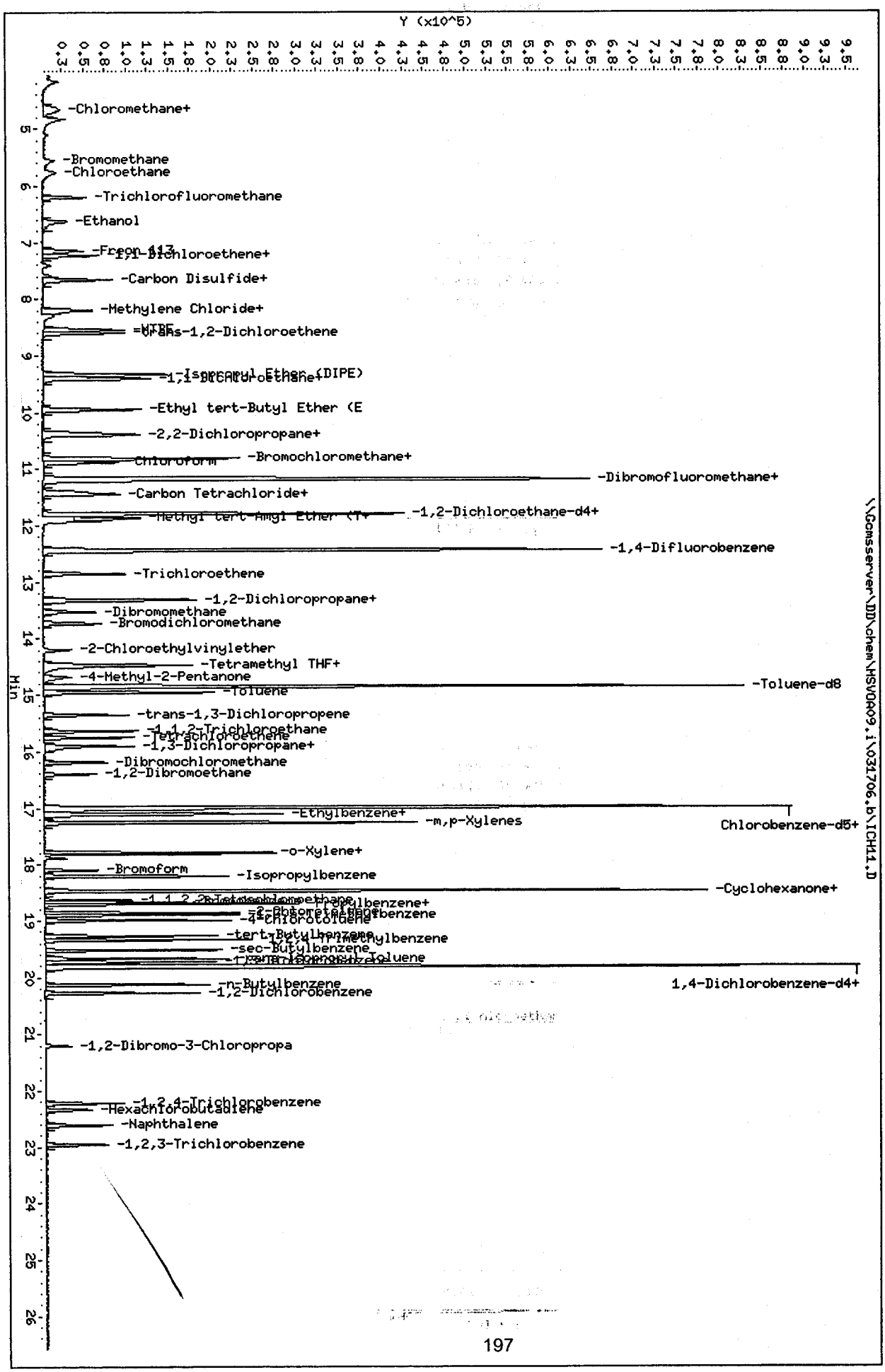
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone	55	18.461	18.461	(0.932)	42617	50.0000	38.1607
$ 65 Bromofluorobenzene	95	18.471	18.471	(0.933)	302187	50.0000	49.7046
66 1,1,2,2-Tetrachloroethane	83	18.628	18.628	(0.941)	66643	5.00000	5.0420
67 Bromobenzene	156	18.668	18.668	(0.943)	50725	5.00000	4.7360
68 Propylbenzene	91	18.707	18.707	(0.945)	228175	5.00000	4.7958
69 1,2,3-Trichloropropane	110	18.727	18.727	(0.946)	16071	5.00000	5.0243
70 2-Chlorotoluene	91	18.865	18.865	(0.953)	159620	5.00000	4.8660
71 1,3,5-Trimethylbenzene	105	18.904	18.904	(0.955)	147335	5.00000	4.7986
72 4-Chlorotoluene	91	18.993	18.993	(0.959)	151038	5.00000	4.8720
73 tert-Butylbenzene	119	19.279	19.279	(0.974)	113900	5.00000	4.7029
74 1,2,4-Trimethylbenzene	105	19.338	19.338	(0.977)	152479	5.00000	4.8926
75 sec-Butylbenzene	105	19.516	19.516	(0.986)	171902	5.00000	4.5793
76 para-Isopropyl Toluene	119	19.664	19.664	(0.993)	134965	5.00000	4.7349
77 1,3-Dichlorobenzene	146	19.723	19.723	(0.996)	90332	5.00000	4.8230
* 78 1,4-Dichlorobenzene-d4	152	19.802	19.802	(1.000)	266008	50.0000	
79 1,4-Dichlorobenzene	146	19.832	19.832	(1.001)	94482	5.00000	4.8576
80 n-Butylbenzene	91	20.127	20.127	(1.016)	119944	5.00000	4.7012
81 1,2-Dichlorobenzene	146	20.275	20.275	(1.024)	85133	5.00000	4.8068
82 1,2-Dibromo-3-Chloropropane	75	21.202	21.202	(1.071)	10324	5.00000	5.5902
83 1,2,4-Trichlorobenzene	180	22.218	22.218	(1.122)	38146	5.00000	4.9243
84 Hexachlorobutadiene	225	22.337	22.337	(1.128)	14086	5.00000	5.0585
85 Naphthalene	128	22.613	22.613	(1.142)	83612	5.00000	4.6196
86 1,2,3-Trichlorobenzene	180	22.958	22.958	(1.159)	33592	5.00000	4.9948

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Ccmsserver\DD\chem\MSVOA09.i\031706.b\ICH11.D
Date : 17-MAR-2006 15:04
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.005/500,S2783,0.005/500
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: VOC
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH12.D
Report Date: 20-Mar-2006 09:44

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH12.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-MAR-2006 15:39 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2844,0.002/100,S2783,0.002/100
Misc Info : S2410,0.001/100,10PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\826GOX9W.m
Meth Date : 20-Mar-2006 09:43 target Quant Type: ISTD
Cal Date : 17-MAR-2006 13:19 Cal File: ICH08.D
Als bottle: 12 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.166	4.166	(0.372)	143649	10.0000	11.5961
2 Chloromethane	50	4.649	4.649	(0.416)	213424	10.0000	11.4517
3 Vinyl Chloride	62	4.826	4.826	(0.431)	167933	10.0000	11.4344
4 Bromomethane	94	5.546	5.546	(0.496)	60262	10.0000	10.5957
5 Chloroethane	64	5.754	5.754	(0.514)	92608	10.0000	11.3630
6 Trichlorofluoromethane	101	6.197	6.197	(0.554)	168285	10.0000	11.2888
7 Ethanol	45	6.621	6.621	(0.592)	167380	1000.00	1019.6533
8 Freon 113	101	7.144	7.144	(0.639)	97631	10.0000	11.6100
9 1,1-Dichloroethene	96	7.223	7.223	(0.646)	96890	10.0000	11.4060
10 Acetone	43	7.401	7.401	(0.661)	43350	10.0000	9.4325
11 Isopropanol	45	7.588	7.588	(0.678)	73558	100.000	99.3340
12 Carbon Disulfide	76	7.657	7.657	(0.684)	424368	10.0000	11.2725
13 Methylene Chloride	84	8.190	8.190	(0.732)	127736	10.0000	10.5760
14 tert-Butyl Alcohol (TBA)	59	8.308	8.308	(0.743)	98435	100.000	132.7518(M)
15 MTBE	73	8.535	8.535	(0.763)	323902	10.0000	10.7548
16 trans-1,2-Dichloroethene	96	8.594	8.594	(0.768)	120587	10.0000	11.3527

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH12.D
Report Date: 20-Mar-2006 09:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 Isopropyl Ether (DIPE)	45	9.324	9.324	(0.833)	477225	10.0000	10.9400
18 1,1-Dichloroethane	63	9.393	9.393	(0.840)	220953	10.0000	11.5120
19 Vinyl Acetate	43	9.403	9.403	(0.840)	263666	10.0000	10.0631
20 Ethyl tert-Butyl Ether (ETBE)	59	9.935	9.935	(0.888)	343304	10.0000	10.6779
21 2,2-Dichloropropane	77	10.349	10.349	(0.925)	128921	10.0000	11.2774
22 cis-1,2-Dichloroethene	96	10.389	10.389	(0.929)	127254	10.0000	10.8856
23 2-Butanone	43	10.399	10.399	(0.929)	61263	10.0000	10.6525
24 Bromochloromethane	128	10.803	10.803	(0.966)	61909	10.0000	11.0512
25 Tetrahydrofuran	42	10.813	10.813	(0.967)	347594	100.000	105.4411
26 Chloroform	83	10.882	10.882	(0.973)	195542	10.0000	10.8987
$ 27 Dibromofluoromethane	113	11.158	11.158	(0.997)	250952	50.0000	50.7238
28 1,1,1-Trichloroethane	97	11.178	11.178	(0.999)	135335	10.0000	11.1750
* 29 Pentafluorobenzene	168	11.188	11.188	(1.000)	431167	50.0000	
30 Carbon Tetrachloride	117	11.395	11.395	(0.917)	106540	10.0000	11.1311
31 1,1-Dichloropropene	75	11.444	11.444	(0.921)	144273	10.0000	11.5459
$ 32 1,2-Dichloroethane-d4	65	11.789	11.789	(0.948)	232957	50.0000	50.9887
33 Benzene	78	11.789	11.789	(0.948)	460275	10.0000	11.0219
34 Methyl tert-Amyl Ether (TAME)	73	11.868	11.868	(0.955)	302908	10.0000	10.5336
35 1,2-Dichloroethane	62	11.917	11.917	(0.959)	126831	10.0000	10.4550
* 36 1,4-Difluorobenzene	114	12.430	12.430	(1.000)	743967	50.0000	
37 Trichloroethene	95	12.844	12.844	(1.033)	113391	10.0000	11.3543
38 1,2-Dichloropropane	63	13.308	13.308	(1.071)	129497	10.0000	11.1690
$ 39 Trifluorotoluene	146	13.318	13.318	(1.071)	136514	10.0000	10.8147
40 Dibromomethane	93	13.515	13.515	(1.087)	77596	10.0000	10.8984
41 Bromodichloromethane	83	13.722	13.722	(1.104)	139489	10.0000	10.8504
42 2-Chloroethylvinylether	63	14.196	14.196	(1.142)	43792	10.0000	10.0049
43 Tetramethyl THF	43	14.462	14.462	(1.163)	220164	10.0000	10.6090
44 cis-1,3-Dichloropropene	75	14.472	14.472	(1.164)	187470	10.0000	10.9822
45 4-Methyl-2-Pentanone	43	14.679	14.679	(1.181)	113029	10.0000	10.2069
$ 46 Toluene-d8	98	14.847	14.847	(1.194)	709885	50.0000	49.5133
47 Toluene	92	14.955	14.955	(1.203)	267150	10.0000	11.2066
48 trans-1,3-Dichloropropene	75	15.349	15.349	(1.235)	158623	10.0000	10.7144
49 1,1,2-Trichloroethane	85	15.636	15.636	(1.258)	55425	10.0000	10.6612
50 Tetrachloroethene	166	15.744	15.744	(0.927)	92544	10.0000	11.2778
51 1,3-Dichloropropane	76	15.902	15.902	(0.936)	171443	10.0000	10.5529
52 2-Hexanone	43	15.941	15.941	(0.938)	75169	10.0000	10.1385
53 Dibromochloromethane	129	16.188	16.188	(0.953)	105876	10.0000	10.5191
54 1,2-Dibromoethane	107	16.395	16.395	(1.319)	110991	10.0000	10.4840
* 55 Chlorobenzene-d5	117	16.987	16.987	(1.000)	593292	50.0000	
56 Chlorobenzene	112	17.026	17.026	(1.002)	287511	10.0000	10.7473
57 Ethylbenzene	91	17.105	17.105	(1.007)	477309	10.0000	11.1963
58 1,1,1,2-Tetrachloroethane	131	17.125	17.125	(1.008)	95535	10.0000	10.8128
59 m,p-Xylenes	106	17.253	17.253	(1.016)	360533	20.0000	22.7886
60 o-Xylene	106	17.785	17.785	(1.047)	177282	10.0000	11.0504
61 Styrene	104	17.805	17.805	(1.048)	310347	10.0000	11.1945
62 Bromoform	173	18.101	18.101	(1.066)	74256	10.0000	10.1587
63 Isopropylbenzene	105	18.210	18.210	(0.919)	417743	10.0000	11.1705

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH12.D
Report Date: 20-Mar-2006 09:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone	55	18.456	18.456	(0.932)	139476	100.000	125.8364
$ 65 Bromofluorobenzene	95	18.466	18.466	(0.932)	300460	50.0000	49.7944
66 1,1,2,2-Tetrachloroethane	83	18.634	18.634	(0.941)	135967	10.0000	10.3648
67 Bromobenzene	156	18.673	18.673	(0.943)	112217	10.0000	10.5566
68 Propylbenzene	91	18.703	18.703	(0.944)	535315	10.0000	11.3364
69 1,2,3-Trichloropropane	110	18.722	18.722	(0.945)	34046	10.0000	10.7244
70 2-Chlorotoluene	91	18.870	18.870	(0.953)	362497	10.0000	11.1343
71 1,3,5-Trimethylbenzene	105	18.900	18.900	(0.954)	340127	10.0000	11.1617
72 4-Chlorotoluene	91	18.999	18.999	(0.959)	337070	10.0000	10.9552
73 tert-Butylbenzene	119	19.275	19.275	(0.973)	268546	10.0000	11.1722
74 1,2,4-Trimethylbenzene	105	19.344	19.344	(0.977)	348492	10.0000	11.2668
75 sec-Butylbenzene	105	19.521	19.521	(0.986)	426978	10.0000	11.4604
76 para-Isopropyl Toluene	119	19.659	19.659	(0.993)	327041	10.0000	11.5602
77 1,3-Dichlorobenzene	146	19.728	19.728	(0.996)	197884	10.0000	10.6455
* 78 1,4-Dichlorobenzene-d4	152	19.807	19.807	(1.000)	264011	50.0000	
79 1,4-Dichlorobenzene	146	19.827	19.827	(1.001)	206611	10.0000	10.7029
80 n-Butylbenzene	91	20.123	20.123	(1.016)	303501	10.0000	11.9857
81 1,2-Dichlorobenzene	146	20.271	20.271	(1.023)	189621	10.0000	10.7875
82 1,2-Dibromo-3-Chloropropane	75	21.198	21.198	(1.070)	21297	10.0000	11.6191
83 1,2,4-Trichlorobenzene	180	22.223	22.223	(1.122)	93234	10.0000	12.1268
84 Hexachlorobutadiene	225	22.342	22.342	(1.128)	34722	10.0000	12.5635
85 Naphthalene	128	22.608	22.608	(1.141)	219695	10.0000	12.2302
86 1,2,3-Trichlorobenzene	180	22.953	22.953	(1.159)	82714	10.0000	12.3917

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA09.i\031706.b\ICH12.D
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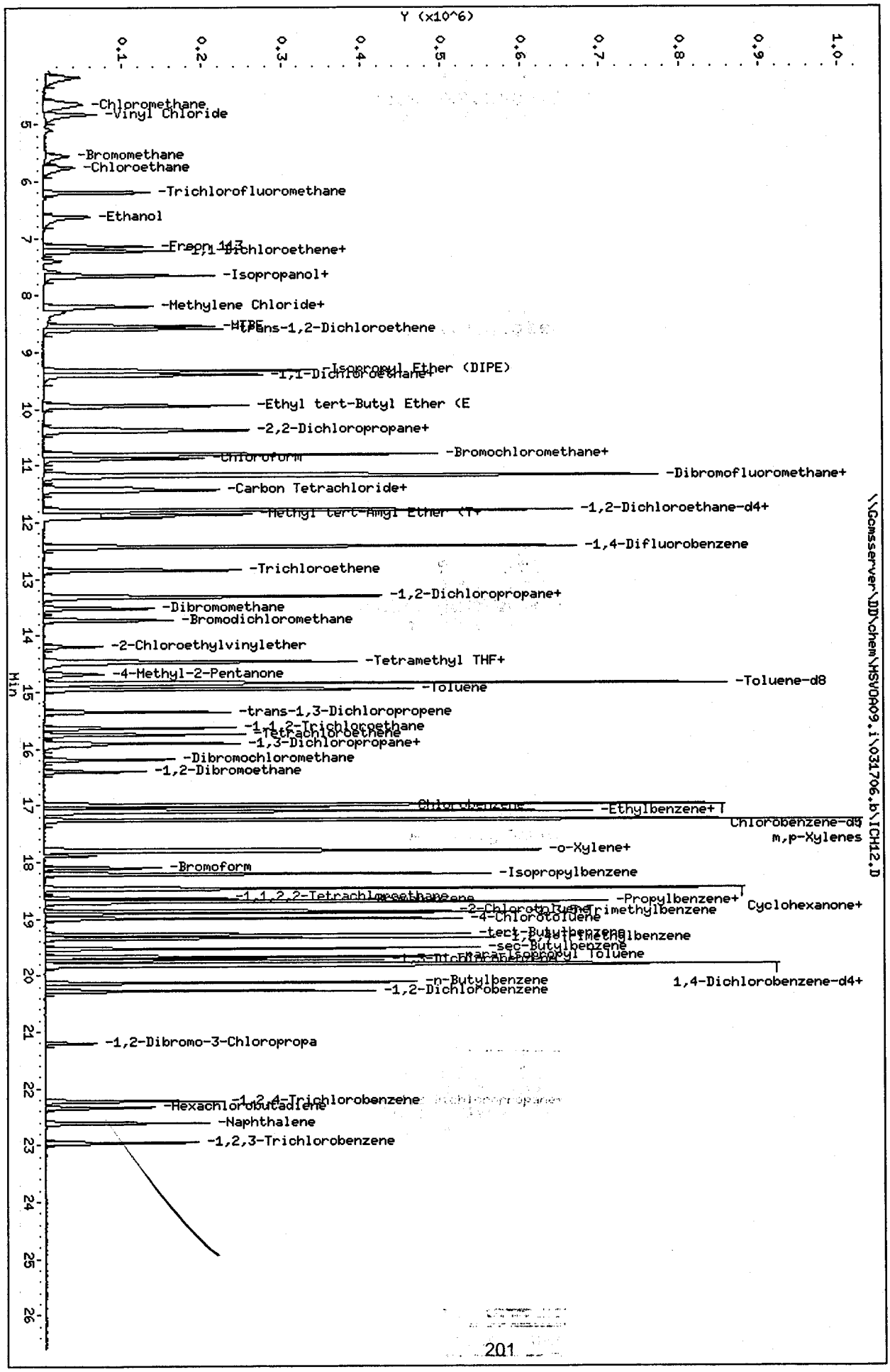
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: VOC
Column diameter: 0.25



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Report Date: 20-Mar-2006 09:44

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH13.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-MAR-2006 16:14 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
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Misc Info : S2410,0.002/100,20PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\826GOX9W.m
Meth Date : 20-Mar-2006 09:44 target Quant Type: ISTD
Cal Date : 17-MAR-2006 13:19 Cal File: ICH08.D
Als bottle: 13 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.165	4.165	(0.372)	246635	20.0000	19.6250
2 Chloromethane	50	4.648	4.648	(0.416)	379029	20.0000	20.0468
3 Vinyl Chloride	62	4.826	4.826	(0.431)	296409	20.0000	19.8936
4 Bromomethane	94	5.556	5.556	(0.497)	122889	20.0000	21.2983
5 Chloroethane	64	5.753	5.753	(0.514)	164004	20.0000	19.8356
6 Trichlorofluoromethane	101	6.197	6.197	(0.554)	292719	20.0000	19.3552
7 Ethanol	45	6.621	6.621	(0.592)	349397	2000.00	2098.0364
8 Freon 113	101	7.143	7.143	(0.639)	181079	20.0000	21.2255
9 1,1-Dichloroethene	96	7.232	7.232	(0.647)	176716	20.0000	20.5057
10 Acetone	43	7.400	7.400	(0.661)	88464	20.0000	18.9737
11 Isopropanol	45	7.577	7.577	(0.677)	155205	200.000	206.5945
12 Carbon Disulfide	76	7.656	7.656	(0.684)	778461	20.0000	20.3827
13 Methylene Chloride	84	8.199	8.199	(0.733)	243069	20.0000	19.8374
14 tert-Butyl Alcohol (TBA)	59	8.287	8.287	(0.741)	207418	200.000	264.5381(M)
15 MTBE	73	8.534	8.534	(0.763)	629498	20.0000	20.6028
16 trans-1,2-Dichloroethene	96	8.593	8.593	(0.768)	216695	20.0000	20.1092

M 3/20/06

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH13.D
Report Date: 20-Mar-2006 09:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	9.323	9.323	(0.833)	934053	20.0000	21.1063
	18 1,1-Dichloroethane	63	9.392	9.392	(0.840)	399995	20.0000	20.5425
	19 Vinyl Acetate	43	9.402	9.402	(0.840)	566898	20.0000	21.3268
	20 Ethyl tert-Butyl Ether (ETBE)	59	9.934	9.934	(0.888)	676058	20.0000	20.7271
	21 2,2-Dichloropropane	77	10.349	10.349	(0.925)	243752	20.0000	21.0174
	22 cis-1,2-Dichloroethene	96	10.388	10.388	(0.929)	242937	20.0000	20.4843
	23 2-Butanone	43	10.398	10.398	(0.929)	119926	20.0000	20.5547
	24 Bromochloromethane	128	10.802	10.802	(0.966)	118456	20.0000	20.8428
	25 Tetrahydrofuran	42	10.812	10.812	(0.967)	669884	200.000	200.3006
	26 Chloroform	83	10.881	10.881	(0.973)	363757	20.0000	19.9845
$	27 Dibromofluoromethane	113	11.157	11.157	(0.997)	251670	50.0000	50.1416
	28 1,1,1-Trichloroethane	97	11.177	11.177	(0.999)	248163	20.0000	20.1986
*	29 Pentafluorobenzene	168	11.187	11.187	(1.000)	437422	50.0000	
	30 Carbon Tetrachloride	117	11.394	11.394	(0.917)	195894	20.0000	20.3458
	31 1,1-Dichloropropene	75	11.443	11.443	(0.921)	262606	20.0000	20.8918
$	32 1,2-Dichloroethane-d4	65	11.789	11.789	(0.948)	234573	50.0000	51.0394
	33 Benzene	78	11.789	11.789	(0.948)	851262	20.0000	20.2644
	34 Methyl tert-Amyl Ether (TAME)	73	11.867	11.867	(0.955)	610554	20.0000	21.1066
	35 1,2-Dichloroethane	62	11.917	11.917	(0.959)	251480	20.0000	20.6078
*	36 1,4-Difluorobenzene	114	12.430	12.430	(1.000)	748384	50.0000	
	37 Trichloroethene	95	12.844	12.844	(1.033)	201876	20.0000	20.0954
	38 1,2-Dichloropropane	63	13.307	13.307	(1.071)	244785	20.0000	20.9880
$	39 Trifluorotoluene	146	13.317	13.317	(1.071)	255179	20.0000	20.0961
	40 Dibromomethane	93	13.514	13.514	(1.087)	151832	20.0000	21.1991
	41 Bromodichloromethane	83	13.722	13.722	(1.104)	267894	20.0000	20.7156
	42 2-Chloroethylvinylether	63	14.195	14.195	(1.142)	90896	20.0000	20.6439
	43 Tetramethyl THF	43	14.451	14.451	(1.163)	448977	20.0000	21.5072
	44 cis-1,3-Dichloropropene	75	14.471	14.471	(1.164)	360361	20.0000	20.9858
	45 4-Methyl-2-Pentanone	43	14.678	14.678	(1.181)	230021	20.0000	20.6491
$	46 Toluene-d8	98	14.846	14.846	(1.194)	721157	50.0000	50.0026
	47 Toluene	92	14.954	14.954	(1.203)	494735	20.0000	20.6311
	48 trans-1,3-Dichloropropene	75	15.349	15.349	(1.235)	314188	20.0000	21.0971
	49 1,1,2-Trichloroethane	85	15.635	15.635	(1.258)	107334	20.0000	20.5242
	50 Tetrachloroethene	166	15.753	15.753	(0.927)	166555	20.0000	19.9931
	51 1,3-Dichloropropane	76	15.901	15.901	(0.936)	340772	20.0000	20.6616
	52 2-Hexanone	43	15.931	15.931	(0.938)	153535	20.0000	20.3979
	53 Dibromochloromethane	129	16.187	16.187	(0.953)	209951	20.0000	20.5469
	54 1,2-Dibromoethane	107	16.394	16.394	(1.319)	223309	20.0000	20.9689
*	55 Chlorobenzene-d5	117	16.986	16.986	(1.000)	602316	50.0000	
	56 Chlorobenzene	112	17.025	17.025	(1.002)	541502	20.0000	19.9384
	57 Ethylbenzene	91	17.104	17.104	(1.007)	879299	20.0000	20.3169
	58 1,1,1,2-Tetrachloroethane	131	17.124	17.124	(1.008)	183137	20.0000	20.4172
	59 m,p-Xylenes	106	17.252	17.252	(1.016)	670618	40.0000	41.7534
	60 o-Xylene	106	17.785	17.785	(1.047)	333251	20.0000	20.4611
	61 Styrene	104	17.805	17.805	(1.048)	592582	20.0000	21.0548
	62 Bromoform	173	18.100	18.100	(1.066)	150542	20.0000	20.2865
	63 Isopropylbenzene	105	18.209	18.209	(0.919)	773902	20.0000	20.3075

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH13.D
Report Date: 20-Mar-2006 09:44

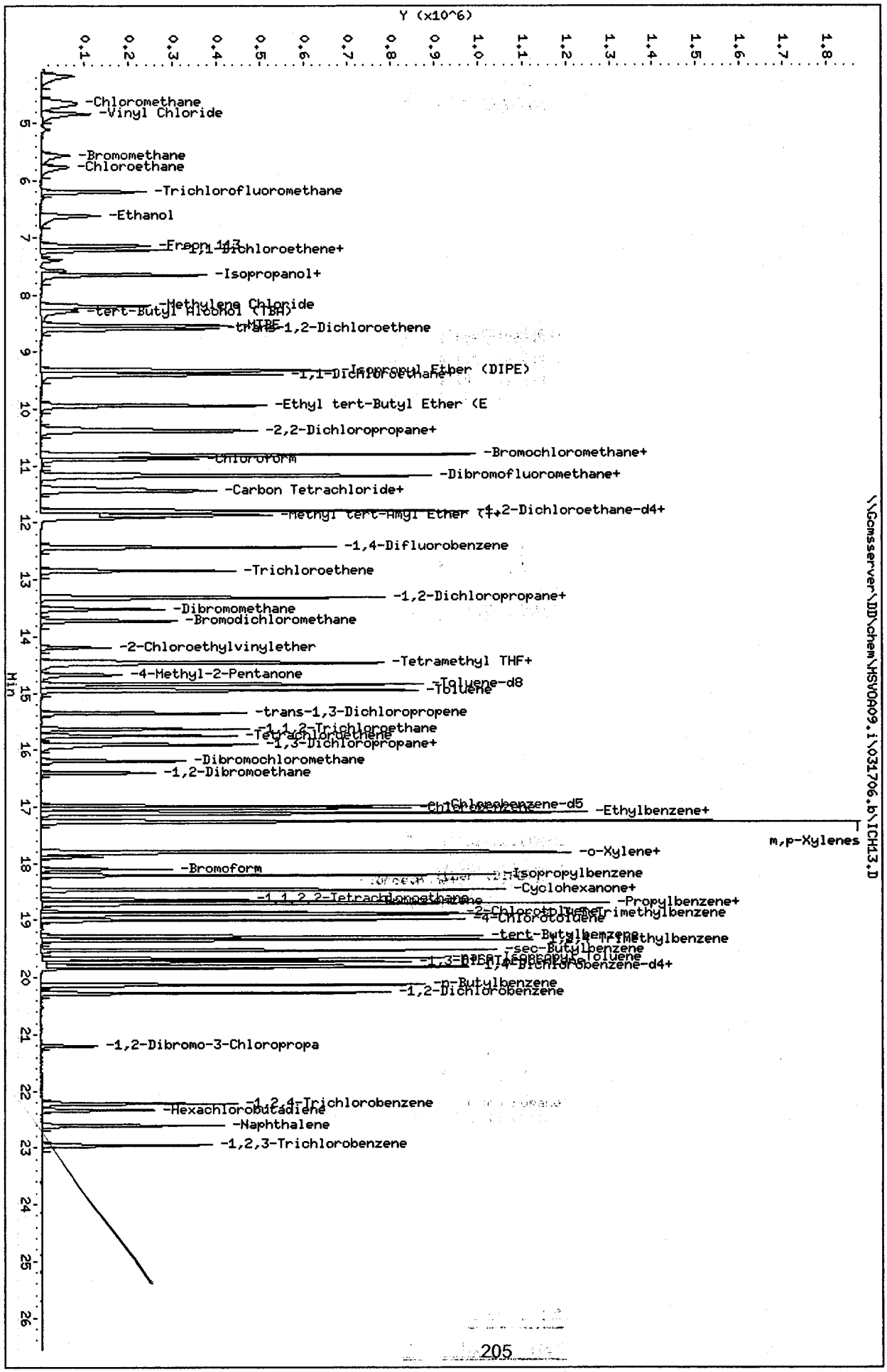
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone	55	18.455	18.455	(0.932)	270907	200.000	239.8467
$ 65 Bromofluorobenzene	95	18.465	18.465	(0.932)	309247	50.0000	50.2928
66 1,1,2,2-Tetrachloroethane	83	18.633	18.633	(0.941)	272334	20.0000	20.3721
67 Bromobenzene	156	18.672	18.672	(0.943)	216631	20.0000	19.9984
68 Propylbenzene	91	18.702	18.702	(0.944)	988510	20.0000	20.5425
69 1,2,3-Trichloropropane	110	18.722	18.722	(0.945)	68192	20.0000	21.0790
70 2-Chlorotoluene	91	18.870	18.870	(0.953)	682723	20.0000	20.5784
71 1,3,5-Trimethylbenzene	105	18.899	18.899	(0.954)	649717	20.0000	20.9228
72 4-Chlorotoluene	91	18.998	18.998	(0.959)	630712	20.0000	20.1159
73 tert-Butylbenzene	119	19.274	19.274	(0.973)	503654	20.0000	20.5618
74 1,2,4-Trimethylbenzene	105	19.343	19.343	(0.977)	663871	20.0000	21.0619
75 sec-Butylbenzene	105	19.521	19.521	(0.986)	806227	20.0000	21.2354
76 para-Isopropyl Toluene	119	19.659	19.659	(0.993)	620866	20.0000	21.5361
77 1,3-Dichlorobenzene	146	19.728	19.728	(0.996)	390318	20.0000	20.6054
* 78 1,4-Dichlorobenzene-d4	152	19.807	19.807	(1.000)	269039	50.0000	
79 1,4-Dichlorobenzene	146	19.826	19.826	(1.001)	403179	20.0000	20.4952
80 n-Butylbenzene	91	20.122	20.192	(1.016)	578316	20.0000	22.4117
81 1,2-Dichlorobenzene	146	20.270	20.270	(1.023)	366773	20.0000	20.4757
82 1,2-Dibromo-3-Chloropropane	75	21.197	21.197	(1.070)	40751	20.0000	21.8172
83 1,2,4-Trichlorobenzene	180	22.223	22.223	(1.122)	186408	20.0000	23.7926
84 Hexachlorobutadiene	225	22.341	22.341	(1.128)	64295	20.0000	22.8292
85 Naphthalene	128	22.607	22.607	(1.141)	450079	20.0000	24.5872
86 1,2,3-Trichlorobenzene	180	22.953	22.953	(1.159)	169139	20.0000	24.8659

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\HSVOA09.i\031706.b\ICH13.D
Date : 17-MAR-2006 16:14
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.004/100,S2783,0.004/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA09.i
Operator: VOC
Column diameter: 0.25



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Report Date: 20-Mar-2006 09:44

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH14.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-MAR-2006 16:48 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2844,0.01/100,S2783,0.01/100
Misc Info : S2410,0.005/100,50PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\826GOX9W.m
Meth Date : 20-Mar-2006 09:44 target Quant Type: ISTD
Cal Date : 17-MAR-2006 13:19 Cal File: ICH08.D
Als bottle: 14 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.174	4.174	(0.373)	662528	50.0000	51.0845
2 Chloromethane	50	4.657	4.657	(0.416)	916581	50.0000	46.9757
3 Vinyl Chloride	62	4.825	4.825	(0.431)	756254	50.0000	49.1836
4 Bromomethane	94	5.555	5.555	(0.497)	359220	50.0000	60.3284
5 Chloroethane	64	5.762	5.762	(0.515)	421883	50.0000	49.4439
6 Trichlorofluoromethane	101	6.196	6.196	(0.554)	751501	50.0000	48.1511
7 Ethanol	45	6.610	6.610	(0.591)	882416	5000.00	5134.4825
8 Freon 113	101	7.143	7.143	(0.639)	398596	50.0000	45.2744
9 1,1-Dichloroethene	96	7.231	7.231	(0.646)	425109	50.0000	47.8002
10 Acetone	43	7.399	7.399	(0.661)	217794	50.0000	45.2649
11 Isopropanol	45	7.576	7.576	(0.677)	410113	500.000	528.9884
12 Carbon Disulfide	76	7.665	7.665	(0.685)	1860984	50.0000	47.2169
13 Methylene Chloride	84	8.198	8.198	(0.733)	608027	50.0000	48.0848
14 tert-Butyl Alcohol (TBA)	59	8.287	8.287	(0.741)	536291	500.000	651.2830(M)
15 MTBE	73	8.533	8.533	(0.763)	1602925	50.0000	50.8365
16 trans-1,2-Dichloroethene	96	8.592	8.592	(0.768)	531964	50.0000	47.8364

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH14.D
Report Date: 20-Mar-2006 09:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 Isopropyl Ether (DIPE)	45	9.322	9.322	(0.833)	2318807	50.0000	50.7733
18 1,1-Dichloroethane	63	9.401	9.401	(0.840)	988497	50.0000	49.1930
19 Vinyl Acetate	43	9.401	9.401	(0.840)	1343991	50.0000	48.9946
20 Ethyl tert-Butyl Ether (ETBE)	59	9.934	9.934	(0.888)	1685990	50.0000	50.0886
21 2,2-Dichloropropane	77	10.348	10.348	(0.925)	563238	50.0000	47.0601
22 cis-1,2-Dichloroethene	96	10.387	10.387	(0.929)	600992	50.0000	49.1050
23 2-Butanone	43	10.397	10.397	(0.929)	309065	50.0000	51.3309
24 Bromochloromethane	128	10.801	10.801	(0.966)	299285	50.0000	51.0287
25 Tetrahydrofuran	42	10.801	10.801	(0.966)	1626715	500.000	471.3284
26 Chloroform	83	10.880	10.880	(0.973)	896140	50.0000	47.7075
$ 27 Dibromofluoromethane	113	11.166	11.166	(0.998)	257910	50.0000	49.7925
28 1,1,1-Trichloroethane	97	11.176	11.176	(0.999)	577184	50.0000	45.5228
* 29 Pentafluorobenzene	168	11.186	11.186	(1.000)	451410	50.0000	
30 Carbon Tetrachloride	117	11.403	11.403	(0.917)	453292	50.0000	46.0000
31 1,1-Dichloropropene	75	11.442	11.442	(0.921)	605316	50.0000	47.0522
$ 32 1,2-Dichloroethane-d4	65	11.788	11.788	(0.948)	231890	50.0000	49.2986
33 Benzene	78	11.788	11.788	(0.948)	2051306	50.0000	47.7118
34 Methyl tert-Amyl Ether (TAME)	73	11.867	11.867	(0.955)	1501355	50.0000	50.7112
35 1,2-Dichloroethane	62	11.916	11.916	(0.959)	620678	50.0000	49.6958
* 36 1,4-Difluorobenzene	114	12.429	12.429	(1.000)	765948	50.0000	
37 Trichloroethene	95	12.843	12.843	(1.033)	491085	50.0000	47.7634
38 1,2-Dichloropropane	63	13.306	13.306	(1.071)	598671	50.0000	50.1534
$ 39 Trifluorotoluene	146	13.316	13.316	(1.071)	583863	50.0000	44.9266
40 Dibromomethane	93	13.514	13.514	(1.087)	384883	50.0000	52.5061
41 Bromodichloromethane	83	13.721	13.721	(1.104)	667666	50.0000	50.4452
42 2-Chloroethylvinylether	63	14.194	14.194	(1.142)	232672	50.0000	51.6319
43 Tetramethyl THF	43	14.450	14.450	(1.163)	1124290	50.0000	52.6216
44 cis-1,3-Dichloropropene	75	14.470	14.470	(1.164)	883107	50.0000	50.2488
45 4-Methyl-2-Pentanone	43	14.667	14.667	(1.180)	588648	50.0000	51.6315
$ 46 Toluene-d8	98	14.845	14.845	(1.194)	736810	50.0000	49.9165
47 Toluene	92	14.953	14.953	(1.203)	1182731	50.0000	48.1904
48 trans-1,3-Dichloropropene	75	15.348	15.348	(1.235)	781551	50.0000	51.2761
49 1,1,2-Trichloroethane	85	15.634	15.634	(1.258)	270298	50.0000	50.5007
50 Tetrachloroethene	166	15.752	15.752	(0.927)	385935	50.0000	45.4381
51 1,3-Dichloropropane	76	15.900	15.900	(0.936)	854276	50.0000	50.8021
52 2-Hexanone	43	15.930	15.930	(0.938)	401771	50.0000	52.3530
53 Dibromochloromethane	129	16.186	16.186	(0.953)	538976	50.0000	51.7347
54 1,2-Dibromoethane	107	16.403	16.403	(1.320)	561694	50.0000	51.5342
* 55 Chlorobenzene-d5	117	16.985	16.985	(1.000)	614102	50.0000	
56 Chlorobenzene	112	17.025	17.025	(1.002)	1333236	50.0000	48.1484
57 Ethylbenzene	91	17.103	17.103	(1.007)	2067781	50.0000	46.8609
58 1,1,1,2-Tetrachloroethane	131	17.123	17.123	(1.008)	453794	50.0000	49.6207
59 m,p-Xylenes	106	17.251	17.251	(1.016)	1568512	100.000	95.7832
60 o-Xylene	106	17.784	17.784	(1.047)	805939	50.0000	48.5338
61 Styrene	104	17.813	17.813	(1.049)	1467871	50.0000	51.1536
62 Bromoform	173	18.099	18.099	(1.066)	387898	50.0000	51.2687
63 Isopropylbenzene	105	18.208	18.208	(0.919)	1774666	50.0000	45.5699

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH14.D
Report Date: 20-Mar-2006 09:44

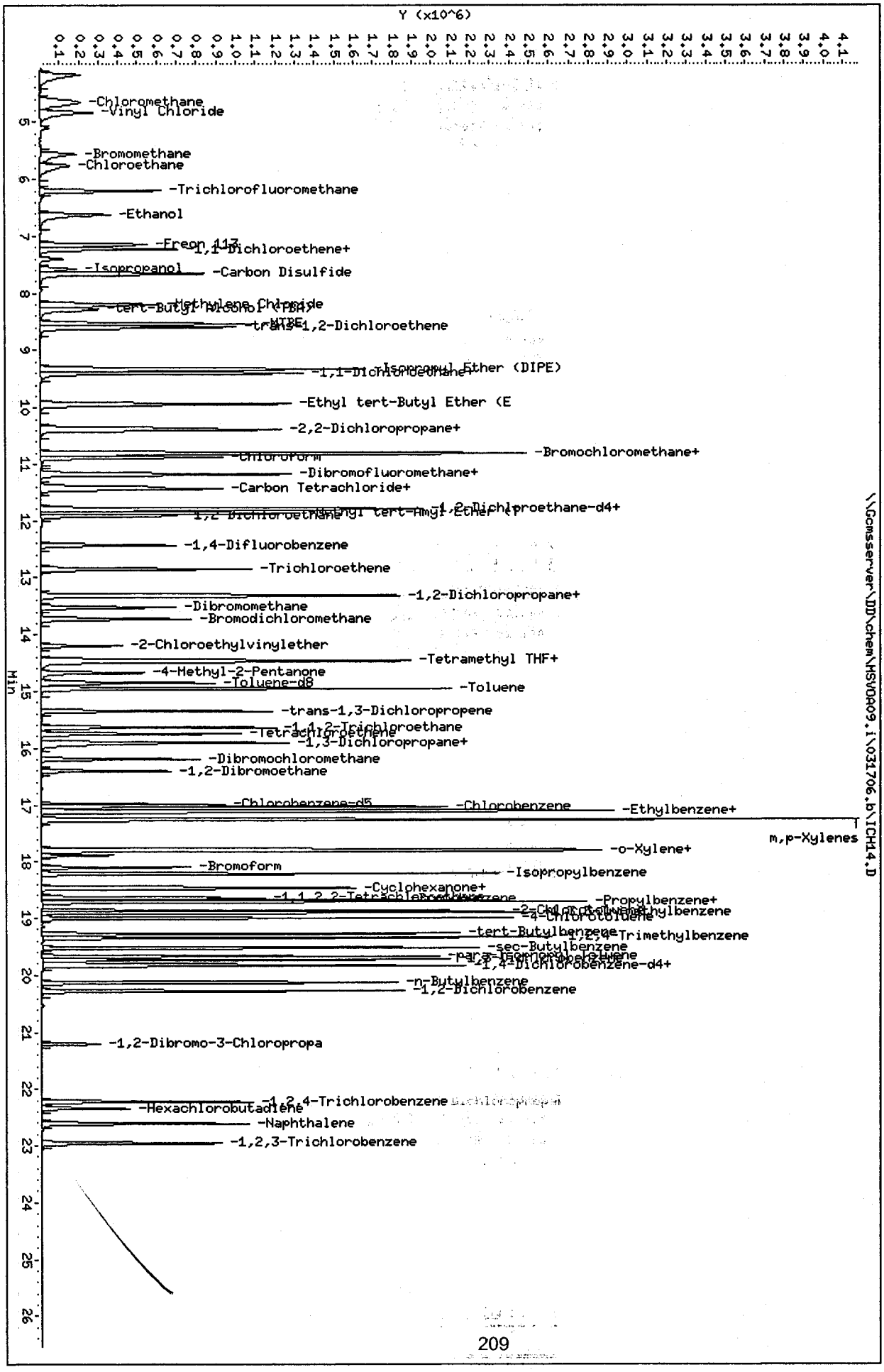
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	64 Cyclohexanone	55	18.455	18.455	(0.932)	696162	500.000	603.1362
$	65 Bromofluorobenzene	95	18.474	18.474	(0.933)	312141	50.0000	49.6756
	66 1,1,2,2-Tetrachloroethane	83	18.632	18.632	(0.941)	674563	50.0000	49.3797
	67 Bromobenzene	156	18.671	18.671	(0.943)	541144	50.0000	48.8854
	68 Propylbenzene	91	18.701	18.701	(0.944)	2219864	50.0000	45.1430
	69 1,2,3-Trichloropropane	110	18.721	18.721	(0.945)	170918	50.0000	51.7006
	70 2-Chlorotoluene	91	18.869	18.869	(0.953)	1625114	50.0000	47.9339
	71 1,3,5-Trimethylbenzene	105	18.898	18.898	(0.954)	1490373	50.0000	46.9659
	72 4-Chlorotoluene	91	18.997	18.997	(0.959)	1538315	50.0000	48.0115
	73 tert-Butylbenzene	119	19.273	19.273	(0.973)	1095717	50.0000	43.7743
	74 1,2,4-Trimethylbenzene	105	19.342	19.342	(0.977)	1538600	50.0000	47.7675
	75 sec-Butylbenzene	105	19.520	19.520	(0.986)	1717838	50.0000	44.2769
	76 para-Isopropyl Toluene	119	19.668	19.668	(0.993)	1344144	50.0000	45.6255
	77 1,3-Dichlorobenzene	146	19.727	19.727	(0.996)	942725	50.0000	48.7012
*	78 1,4-Dichlorobenzene-d4	152	19.806	19.806	(1.000)	274931	50.0000	
	79 1,4-Dichlorobenzene	146	19.835	19.835	(1.001)	977557	50.0000	48.6283
	80 n-Butylbenzene	91	20.131	20.131	(1.016)	1225483	50.0000	46.4739
	81 1,2-Dichlorobenzene	146	20.269	20.269	(1.023)	903198	50.0000	49.3420
	82 1,2-Dibromo-3-Chloropropane	75	21.196	21.196	(1.070)	97175	50.0000	50.9105
	83 1,2,4-Trichlorobenzene	180	22.222	22.222	(1.122)	444136	50.0000	55.4736
	84 Hexachlorobutadiene	225	22.340	22.340	(1.128)	112000	50.0000	38.9155
	85 Naphthalene	128	22.607	22.607	(1.141)	1143368	50.0000	61.1222
	86 1,2,3-Trichlorobenzene	180	22.952	22.952	(1.159)	413686	50.0000	59.5147

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\HSVOA09.i\031706.b\ICH14.D
Date : 17-MAR-2006 16:48
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.01/100,S2783,0.01/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA09.i
Operator: VOC
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH15.D
Report Date: 20-Mar-2006 09:44

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH15.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-MAR-2006 17:25 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2844,0.015/100,S2783,0.015/100
Misc Info : S2410,0.0075/100,75PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\826GOX9W.m
Meth Date : 20-Mar-2006 09:44 target Quant Type: ISTD
Cal Date : 17-MAR-2006 13:19 Cal File: ICH08.D
Als bottle: 15 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.165	4.165	(0.372)	1109762	75.0000	82.6790
2 Chloromethane	50	4.648	4.648	(0.416)	1408526	75.0000	69.7506
3 Vinyl Chloride	62	4.825	4.825	(0.431)	1246501	75.0000	78.3295
4 Bromomethane	94	5.555	5.555	(0.497)	601936	75.0000	97.6770
5 Chloroethane	64	5.752	5.752	(0.514)	673732	75.0000	76.2937
6 Trichlorofluoromethane	101	6.196	6.196	(0.554)	1269022	75.0000	78.5646
7 Ethanol	45	6.610	6.610	(0.591)	1348499	7500.00	7581.4864
8 Freon 113	101	7.143	7.143	(0.639)	868221	75.0000	95.2864
9 1,1-Dichloroethene	96	7.222	7.222	(0.646)	727053	75.0000	78.9908
10 Acetone	43	7.399	7.399	(0.661)	321635	75.0000	64.5891
11 Isopropanol	45	7.567	7.567	(0.676)	612754	750.000	763.6761
12 Carbon Disulfide	76	7.656	7.656	(0.684)	3079758	75.0000	75.5008
13 Methylene Chloride	84	8.188	8.188	(0.732)	920296	75.0000	70.3223
14 tert-Butyl Alcohol (TBA)	59	8.277	8.277	(0.740)	833749	750.000	966.8223 (M)
15 MTBE	73	8.534	8.534	(0.763)	2438411	75.0000	74.7223
16 trans-1,2-Dichloroethene	96	8.593	8.593	(0.768)	838385	75.0000	72.8451

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH15.D
Report Date: 20-Mar-2006 09:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	9.323	9.323	(0.833)	3459117	75.0000	73.1841
	18 1,1-Dichloroethane	63	9.392	9.392	(0.840)	1482447	75.0000	71.2833
	19 Vinyl Acetate	43	9.401	9.401	(0.840)	2131178	75.0000	75.0675
	20 Ethyl tert-Butyl Ether (ETBE)	59	9.934	9.934	(0.888)	2568128	75.0000	73.7193
	21 2,2-Dichloropropane	77	10.348	10.348	(0.925)	937528	75.0000	75.6878
	22 cis-1,2-Dichloroethene	96	10.388	10.388	(0.929)	907356	75.0000	71.6333
	23 2-Butanone	43	10.397	10.397	(0.929)	464998	75.0000	74.6209
	24 Bromochloromethane	128	10.802	10.802	(0.966)	452394	75.0000	74.5293
	25 Tetrahydrofuran	42	10.802	10.802	(0.966)	2431484	750.000	680.7129
	26 Chloroform	83	10.881	10.881	(0.973)	1356936	75.0000	69.7993
$	27 Dibromofluoromethane	113	11.157	11.157	(0.997)	266938	50.0000	49.7951
	28 1,1,1-Trichloroethane	97	11.177	11.177	(0.999)	991615	75.0000	75.5681
*	29 Pentafluorobenzene	168	11.186	11.186	(1.000)	467187	50.0000	
	30 Carbon Tetrachloride	117	11.403	11.403	(0.917)	843603	75.0000	81.6822
	31 1,1-Dichloropropene	75	11.443	11.443	(0.921)	1072411	75.0000	79.5369
$	32 1,2-Dichloroethane-d4	65	11.788	11.788	(0.948)	240214	50.0000	48.7260
	33 Benzene	78	11.788	11.788	(0.948)	3159615	75.0000	70.1197
	34 Methyl tert-Amyl Ether (TAME)	73	11.867	11.867	(0.955)	2335909	75.0000	75.2812
	35 1,2-Dichloroethane	62	11.916	11.916	(0.959)	946898	75.0000	72.3380
*	36 1,4-Difluorobenzene	114	12.429	12.429	(1.000)	802767	50.0000	
	37 Trichloroethene	95	12.843	12.843	(1.033)	788703	75.0000	73.1917
	38 1,2-Dichloropropane	63	13.307	13.307	(1.071)	890883	75.0000	71.2103
$	39 Trifluorotoluene	146	13.317	13.317	(1.071)	1141437	75.0000	83.8020
	40 Dibromomethane	93	13.514	13.514	(1.087)	582258	75.0000	75.7890
	41 Bromodichloromethane	83	13.721	13.721	(1.104)	1020481	75.0000	73.5657
	42 2-Chloroethylvinylether	63	14.194	14.194	(1.142)	375303	75.0000	79.4631
	43 Tetramethyl THF	43	14.441	14.441	(1.162)	1686175	75.0000	75.3006
	44 cis-1,3-Dichloropropene	75	14.471	14.471	(1.164)	1322511	75.0000	71.7996
	45 4-Methyl-2-Pentanone	43	14.668	14.668	(1.180)	921711	75.0000	77.1372
$	46 Toluene-d8	98	14.845	14.845	(1.194)	782190	50.0000	50.5604
	47 Toluene	92	14.954	14.954	(1.203)	1891146	75.0000	73.5207
	48 trans-1,3-Dichloropropene	75	15.348	15.348	(1.235)	1195447	75.0000	74.8339
	49 1,1,2-Trichloroethane	85	15.634	15.634	(1.258)	417778	75.0000	74.4749
	50 Tetrachloroethene	166	15.753	15.753	(0.927)	718552	75.0000	80.8285
	51 1,3-Dichloropropane	76	15.901	15.901	(0.936)	1289763	75.0000	73.2813
	52 2-Hexanone	43	15.920	15.920	(0.937)	621992	75.0000	77.4369
	53 Dibromochloromethane	129	16.187	16.187	(0.953)	818403	75.0000	75.0550
	54 1,2-Dibromoethane	107	16.404	16.404	(1.320)	859748	75.0000	75.2622
*	55 Chlorobenzene-d5	117	16.985	16.985	(1.000)	642748	50.0000	
	56 Chlorobenzene	112	17.025	17.025	(1.002)	2072617	75.0000	71.5145
	57 Ethylbenzene	91	17.104	17.104	(1.007)	3386347	75.0000	73.3225
	58 1,1,1,2-Tetrachloroethane	131	17.124	17.124	(1.008)	694635	75.0000	72.5706
	59 m,p-Xylenes	106	17.262	17.262	(1.016)	2536773	150.000	148.0072
	60 o-Xylene	106	17.784	17.784	(1.047)	1268411	75.0000	72.9797
	61 Styrene	104	17.814	17.814	(1.049)	2261336	75.0000	75.2927
	62 Bromoform	173	18.100	18.100	(1.066)	595489	75.0000	75.1983
	63 Isopropylbenzene	105	18.208	18.208	(0.919)	3161440	75.0000	78.4332

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH15.D
Report Date: 20-Mar-2006 09:44

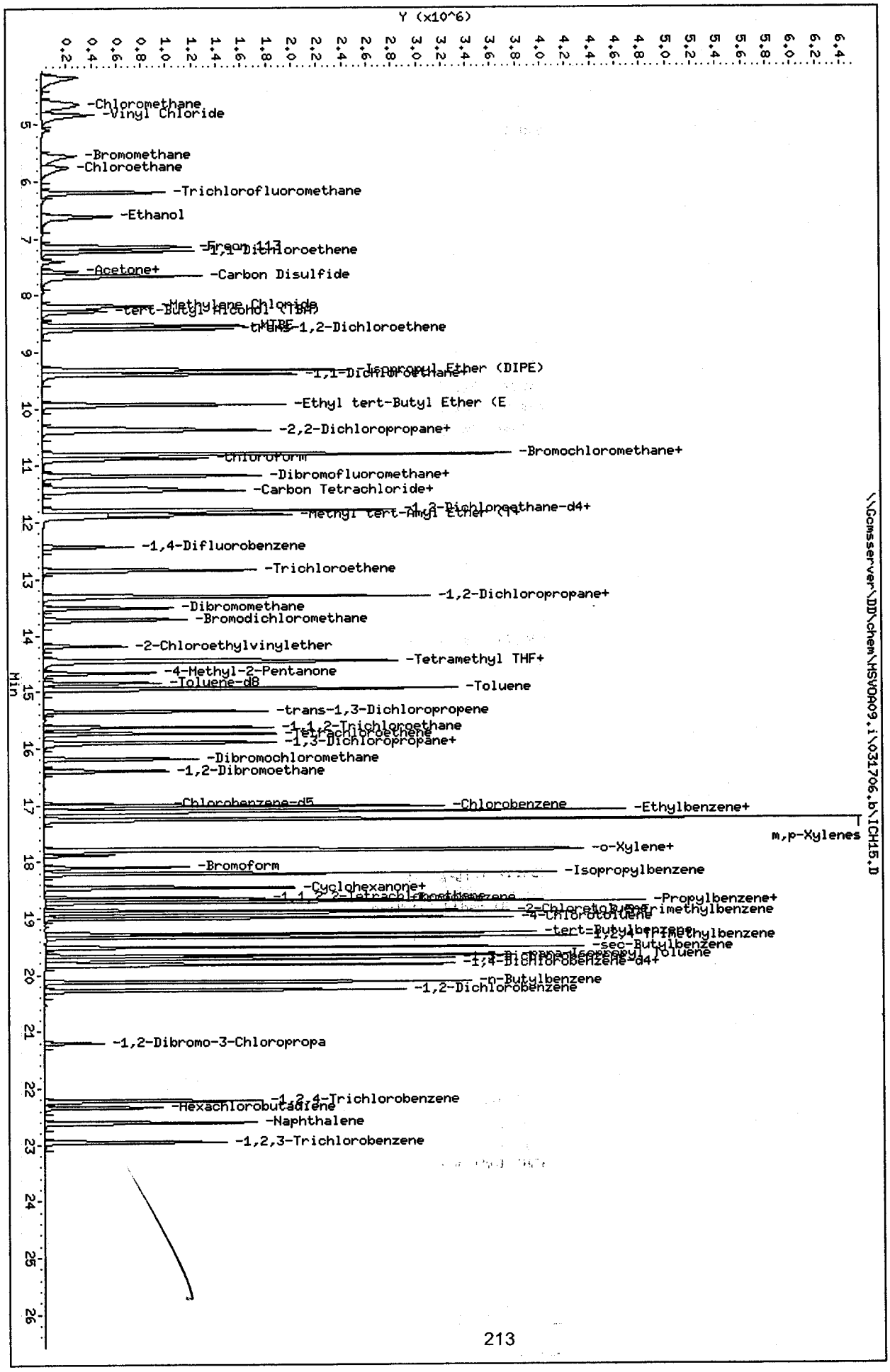
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone	55	18.455	18.455	(0.932)	960511	750.000	804.0080
$ 65 Bromofluorobenzene	95	18.475	18.475	(0.933)	325918	50.0000	50.1133
66 1,1,2,2-Tetrachloroethane	83	18.632	18.632	(0.941)	1057193	75.0000	74.7710
67 Bromobenzene	156	18.672	18.672	(0.943)	847191	75.0000	73.9436
68 Propylbenzene	91	18.701	18.701	(0.944)	3921762	75.0000	77.0546
69 1,2,3-Trichloropropane	110	18.721	18.721	(0.945)	262403	75.0000	76.6884
70 2-Chlorotoluene	91	18.869	18.869	(0.953)	2588628	75.0000	73.7702
71 1,3,5-Trimethylbenzene	105	18.899	18.899	(0.954)	2533573	75.0000	77.1391
72 4-Chlorotoluene	91	18.997	18.997	(0.959)	2408904	75.0000	72.6394
73 tert-Butylbenzene	119	19.274	19.274	(0.973)	2095489	75.0000	80.8833
74 1,2,4-Trimethylbenzene	105	19.343	19.343	(0.977)	2549095	75.0000	76.4620
75 sec-Butylbenzene	105	19.520	19.520	(0.986)	3343922	75.0000	83.2729
76 para-Isopropyl Toluene	119	19.668	19.668	(0.993)	2532253	75.0000	83.0467
77 1,3-Dichlorobenzene	146	19.727	19.727	(0.996)	1511176	75.0000	75.4263
* 78 1,4-Dichlorobenzene-d4	152	19.806	19.806	(1.000)	284558	50.0000	
79 1,4-Dichlorobenzene	146	19.836	19.836	(1.001)	1545632	75.0000	74.2858
80 n-Butylbenzene	91	20.122	20.122	(1.016)	2325589	75.0000	85.2095
81 1,2-Dichlorobenzene	146	20.279	20.279	(1.024)	1407697	75.0000	74.3012
82 1,2-Dibromo-3-Chloropropane	75	21.197	21.197	(1.070)	147928	75.0000	74.8784
83 1,2,4-Trichlorobenzene	180	22.222	22.222	(1.122)	728733	75.0000	87.9410
84 Hexachlorobutadiene	225	22.341	22.341	(1.128)	241758	75.0000	81.1594
85 Naphthalene	128	22.607	22.607	(1.141)	1829626	75.0000	94.4993
86 1,2,3-Trichlorobenzene	180	22.952	22.952	(1.159)	672099	75.0000	93.4199

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA09.i\031706.b\ICH15.D
Date : 17-MAR-2006 17:25
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.015/100,S2783,0.015/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: VOC
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH16.D
Report Date: 20-Mar-2006 09:44

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH16.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-MAR-2006 17:59 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2844,0.02/100,S2783,0.02/100
Misc Info : S2410,0.01/100,100PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\826GOX9W.m
Meth Date : 20-Mar-2006 09:44 target Quant Type: ISTD
Cal Date : 17-MAR-2006 17:59 Cal File: ICH16.D
Als bottle: 16 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.169	4.169	(0.373)	1412239	100.000	99.5505
2 Chloromethane	50	4.642	4.643	(0.415)	1796171	100.000	84.1589
3 Vinyl Chloride	62	4.830	4.830	(0.432)	1577680	100.000	93.8040
4 Bromomethane	94	5.550	5.550	(0.496)	831277	100.000	127.6314
5 Chloroethane	64	5.757	5.757	(0.514)	881934	100.000	94.4947
6 Trichlorofluoromethane	101	6.201	6.201	(0.554)	1684456	100.000	98.6704
7 Ethanol	45	6.615	6.615	(0.591)	1680692	10000.0	8940.4922
8 Freon 113	101	7.148	7.148	(0.639)	1101992	100.000	114.4323
9 1,1-Dichloroethene	96	7.226	7.226	(0.646)	985811	100.000	101.3383
10 Acetone	43	7.404	7.404	(0.662)	446236	100.000	84.7872
11 Isopropanol	45	7.572	7.572	(0.677)	778876	1000.00	918.4615
12 Carbon Disulfide	76	7.660	7.660	(0.685)	4101683	100.000	95.1408
13 Methylene Chloride	84	8.193	8.193	(0.732)	1265722	100.000	91.5110
14 tert-Butyl Alcohol (TBA)	59	8.282	8.282	(0.740)	1043625	1000.00	1133.2342(M)
15 MTBE	73	8.528	8.528	(0.762)	3366295	100.000	97.6034
16 trans-1,2-Dichloroethene	96	8.597	8.597	(0.768)	1169106	100.000	96.1126

M 03/20/06

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH16.D
Report Date: 20-Mar-2006 09:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	9.327	9.327	(0.833)	4696516	100.000	94.0150
	18 1,1-Dichloroethane	63	9.396	9.396	(0.840)	2038615	100.000	92.7499
	19 Vinyl Acetate	43	9.396	9.396	(0.840)	2635683	100.000	87.8406
	20 Ethyl tert-Butyl Ether (ETBE)	59	9.939	9.939	(0.888)	3530099	100.000	95.8785
	21 2,2-Dichloropropane	77	10.353	10.353	(0.925)	1263999	100.000	96.5512
	22 cis-1,2-Dichloroethene	96	10.382	10.382	(0.928)	1275768	100.000	95.2969
	23 2-Butanone	43	10.392	10.392	(0.929)	606571	100.000	92.1002
	24 Bromochloromethane	128	10.806	10.806	(0.966)	631558	100.000	98.4449
	25 Tetrahydrofuran	42	10.806	10.806	(0.966)	3050903	1000.00	808.1473
	26 Chloroform	83	10.885	10.885	(0.973)	1904503	100.000	92.6921
$	27 Dibromofluoromethane	113	11.161	11.161	(0.997)	277031	50.0000	48.8961
	28 1,1,1-Trichloroethane	97	11.181	11.181	(0.999)	1342826	100.000	96.8244
*	29 Pentafluorobenzene	168	11.191	11.191	(1.000)	493766	50.0000	
	30 Carbon Tetrachloride	117	11.398	11.398	(0.917)	1119821	100.000	102.5458
	31 1,1-Dichloropropene	75	11.438	11.438	(0.920)	1415066	100.000	99.2576
$	32 1,2-Dichloroethane-d4	65	11.783	11.783	(0.948)	245343	50.0000	47.0669
	33 Benzene	78	11.793	11.793	(0.948)	4368344	100.000	91.6858
	34 Methyl tert-Amyl Ether (TAME)	73	11.862	11.862	(0.954)	3228112	100.000	98.3918
	35 1,2-Dichloroethane	62	11.921	11.921	(0.959)	1312845	100.000	94.8542
*	36 1,4-Difluorobenzene	114	12.434	12.434	(1.000)	848809	50.0000	
	37 Trichloroethene	95	12.848	12.848	(1.033)	1107473	100.000	97.1989
	38 1,2-Dichloropropane	63	13.311	13.311	(1.071)	1207159	100.000	91.2570
$	39 Trifluorotoluene	146	13.321	13.321	(1.071)	1501812	100.000	104.2792
	40 Dibromomethane	93	13.519	13.519	(1.087)	809500	100.000	99.6523
	41 Bromodichloromethane	83	13.726	13.726	(1.104)	1425280	100.000	97.1740
	42 2-Chloroethylvinylether	63	14.189	14.189	(1.141)	478964	100.000	95.9105
	43 Tetramethyl THF	43	14.446	14.446	(1.162)	2192182	100.000	92.5874
	44 cis-1,3-Dichloropropene	75	14.475	14.475	(1.164)	1835550	100.000	94.2472
	45 4-Methyl-2-Pentanone	43	14.672	14.672	(1.180)	1167512	100.000	92.4081
$	46 Toluene-d8	98	14.850	14.850	(1.194)	809193	50.0000	49.4686
	47 Toluene	92	14.949	14.949	(1.202)	2559865	100.000	94.1199
	48 trans-1,3-Dichloropropene	75	15.353	15.353	(1.235)	1641113	100.000	97.1597
	49 1,1,2-Trichloroethane	85	15.629	15.629	(1.257)	571009	100.000	96.2691
	50 Tetrachloroethene	166	15.747	15.747	(0.927)	967367	100.000	104.3337
	51 1,3-Dichloropropane	76	15.905	15.905	(0.937)	1763535	100.000	96.0715
	52 2-Hexanone	43	15.925	15.925	(0.938)	803441	100.000	95.9056
	53 Dibromochloromethane	129	16.191	16.191	(0.954)	1144747	100.000	100.6581
	54 1,2-Dibromoethane	107	16.398	16.398	(1.319)	1173012	100.000	97.1153
*	55 Chlorobenzene-d5	117	16.980	16.980	(1.000)	670369	50.0000	
	56 Chlorobenzene	112	17.020	17.020	(1.002)	2806523	100.000	92.8475
	57 Ethylbenzene	91	17.099	17.099	(1.007)	4394342	100.000	91.2277
	58 1,1,1,2-Tetrachloroethane	131	17.128	17.128	(1.009)	952924	100.000	95.4529
	59 m,p-Xylenes	106	17.256	17.256	(1.016)	3311482	200.000	185.2467
	60 o-Xylene	106	17.779	17.779	(1.047)	1705283	100.000	94.0730
	61 Styrene	104	17.809	17.809	(1.049)	3060306	100.000	97.6966
	62 Bromoform	173	18.104	18.104	(1.066)	817519	100.000	98.9827
	63 Isopropylbenzene	105	18.213	18.213	(0.920)	4049896	100.000	98.3452

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH16.D
Report Date: 20-Mar-2006 09:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone	55	18.450	18.450	(0.932)	1535141	1000.00	1257.7684
$ 65 Bromofluorobenzene	95	18.469	18.469	(0.933)	333793	50.0000	50.2362
66 1,1,2,2-Tetrachloroethane	83	18.637	18.637	(0.941)	1370987	100.000	94.9088
67 Bromobenzene	156	18.676	18.676	(0.943)	1152332	100.000	98.4445
68 Propylbenzene	91	18.706	18.706	(0.945)	4996334	100.000	96.0867
69 1,2,3-Trichloropropane	110	18.726	18.726	(0.946)	339399	100.000	97.0881
70 2-Chlorotoluene	91	18.864	18.864	(0.953)	3383889	100.000	94.3892
71 1,3,5-Trimethylbenzene	105	18.903	18.903	(0.955)	3264289	100.000	97.2801
72 4-Chlorotoluene	91	19.002	19.002	(0.960)	3160356	100.000	93.2788
73 tert-Butylbenzene	119	19.278	19.278	(0.974)	2640316	100.000	99.7525
74 1,2,4-Trimethylbenzene	105	19.337	19.337	(0.977)	3367487	100.000	98.8690
75 sec-Butylbenzene	105	19.525	19.525	(0.986)	4121495	100.000	100.4609
76 para-Isopropyl Toluene	119	19.663	19.663	(0.993)	3183774	100.000	102.2002
77 1,3-Dichlorobenzene	146	19.722	19.722	(0.996)	2009378	100.000	98.1666
* 78 1,4-Dichlorobenzene-d4	152	19.801	19.801	(1.000)	290721	50.0000	
79 1,4-Dichlorobenzene	146	19.830	19.830	(1.001)	2077487	100.000	97.7310
80 n-Butylbenzene	91	20.126	20.126	(1.016)	2931602	100.000	105.1367
81 1,2-Dichlorobenzene	146	20.274	20.274	(1.024)	1878819	100.000	97.0658
82 1,2-Dibromo-3-Chloropropane	75	21.201	21.201	(1.071)	192232	100.000	95.2415
83 1,2,4-Trichlorobenzene	180	22.217	22.217	(1.122)	995628	100.000	117.6020
84 Hexachlorobutadiene	225	22.335	22.335	(1.128)	302700	100.000	99.4638
85 Naphthalene	128	22.612	22.612	(1.142)	2518230	100.000	127.3081
86 1,2,3-Trichlorobenzene	180	22.957	22.957	(1.159)	925031	100.000	125.8511

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\HSVOA09.i\031706.b\ICH16.D
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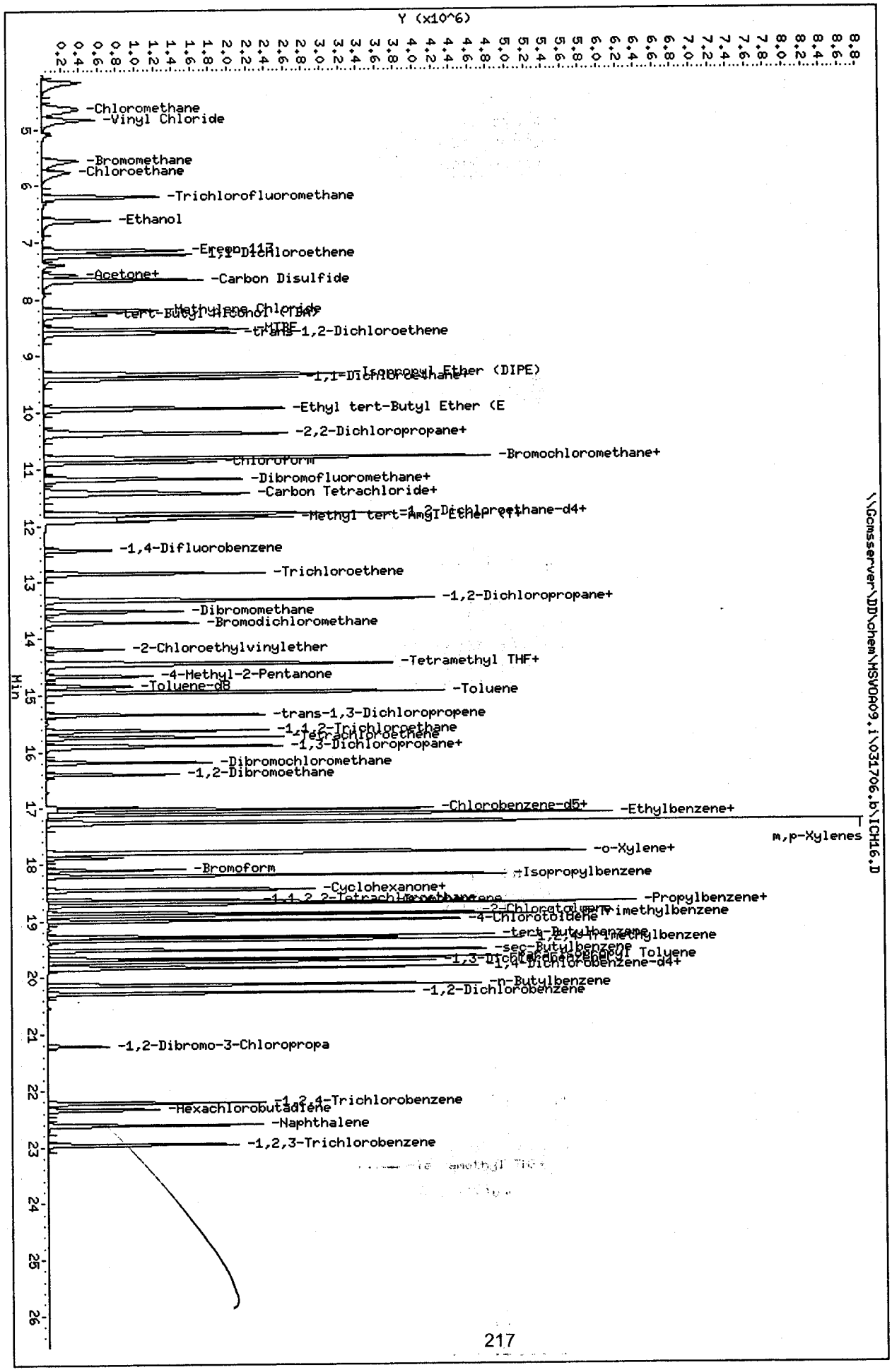
Column phase: RTx Volatiles

Instrument: HSVOA09.i
Operator: VOC
Column diameter: 0.25



8260/6450X w ICAL

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA09 Run Name: 25PPB IDF : 1.0
Seqnum : 486109916017 File : ich17 Time : 17-MAR-2006 18:33
Cal : 486109916001 Caldate : 17-MAR-2006 Caltype : WATER
Standards: S2953 (10000X), S2743 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	1.4365	1.5313	25.00	26.65	ug/L	7	30	
Chloromethane	2.1612	1.9273	25.00	22.29	ug/L	-11	30	
Vinyl Chloride	1.7031	1.5359	25.00	22.55	ug/L	-10	20	
Bromomethane	0.6595	0.6641	25.00	21.59	ug/L	-14	30	
Chloroethane	0.9451	0.8791	25.00	23.25	ug/L	-7	30	
Trichlorofluoromethane	1.7287	1.6625	25.00	24.04	ug/L	-4	30	

ISTD (ICAL ich14)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	451410	489617	8.46	11.19	11.19	0.00
1,4-Difluorobenzene	765948	821860	7.30	12.43	12.43	0.00
1,4-Dichlorobenzene-d4	274931	292456	6.37	19.81	19.80	-0.01

3/20/06

8260/6850X w ICBL

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA09 Run Name: 25PPB IDF : 1.0
Seqnum : 486109916018 File : ich18 Time : 17-MAR-2006 19:07
Cal : 486109916001 Caldate : 17-MAR-2006 Caltype : WATER
Standards: S2902 (10000X), S2616 (10000X), S2743 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Acetone	0.4709	0.3759	25.00	19.96	ug/L	-20	40	
Freon 113	1.0231	0.9619	25.00	23.50	ug/L	-6	30	
1,1-Dichloroethene	0.9965	1.0014	25.00	25.12	ug/L	0	20	
Methylene Chloride	1.3775	1.3531	25.00	24.56	ug/L	-2	30	
Carbon Disulfide	4.3656	3.3761	25.00	19.33	ug/L	**-23**	30	!v-
MTBE	3.4925	2.9638	25.00	21.22	ug/L	-15	30	
trans-1,2-Dichloroethene	1.2317	1.1733	25.00	23.81	ug/L	-5	30	
Vinyl Acetate	3.0384	2.4509	25.00	20.17	ug/L	-19	40	
1,1-Dichloroethane	2.2257	2.1560	25.00	24.22	ug/L	-3	30	
2-Butanone	0.6669	0.6236	25.00	23.38	ug/L	-6	40	
2,2-Dichloropropane	1.3257	1.2315	25.00	23.22	ug/L	-7	30	
cis-1,2-Dichloroethene	1.3556	1.3418	25.00	24.75	ug/L	-1	30	
Chloroform	2.0806	1.9224	25.00	23.10	ug/L	-8	20	
Bromochloromethane	0.6496	0.6698	25.00	25.78	ug/L	3	30	
1,1,1-Trichloroethane	1.4044	1.3478	25.00	23.99	ug/L	-4	30	
1,1-Dichloropropene	0.8558	0.8547	25.00	24.97	ug/L	0	30	
Carbon Tetrachloride	0.6433	0.6610	25.00	25.69	ug/L	3	30	
1,2-Dichloroethane	0.8153	0.8245	25.00	25.28	ug/L	1	30	
Benzene	2.8066	2.7159	25.00	24.19	ug/L	-3	30	
Trichloroethene	0.6712	0.6768	25.00	25.21	ug/L	1	30	
1,2-Dichloropropane	0.7792	0.7805	25.00	25.04	ug/L	0	20	
Bromodichloromethane	0.8640	0.9085	25.00	26.29	ug/L	5	30	
Dibromomethane	0.4927	0.4967	25.00	25.20	ug/L	1	30	
2-Chloroethylvinylether	0.2942	0.3296	25.00	28.01	ug/L	12	40	
4-Methyl-2-Pentanone	0.7442	0.7396	25.00	24.84	ug/L	-1	40	
Tetramethyl THF	1.3947	1.3757	25.00	24.66	ug/L	-1	30	
cis-1,3-Dichloropropene	1.1472	1.1625	25.00	25.33	ug/L	1	30	
Toluene	1.6021	1.6226	25.00	25.32	ug/L	1	20	
trans-1,3-Dichloropropene	0.9950	0.9623	25.00	24.18	ug/L	-3	30	
1,1,2-Trichloroethane	0.3494	0.3684	25.00	26.36	ug/L	5	30	
2-Hexanone	0.6248	0.5894	25.00	23.58	ug/L	-6	40	
1,3-Dichloropropane	1.3691	1.4388	25.00	26.27	ug/L	5	30	
Tetrachloroethene	0.6915	0.7132	25.00	25.78	ug/L	3	30	
Dibromochloromethane	0.8482	0.9204	25.00	27.13	ug/L	9	30	
1,2-Dibromoethane	0.7115	0.7489	25.00	26.31	ug/L	5	30	
Chlorobenzene	2.2545	2.2596	25.00	25.06	ug/L	0	30	
1,1,1,2-Tetrachloroethane	0.7446	0.7678	25.00	25.78	ug/L	3	30	
Ethylbenzene	3.5927	3.6324	25.00	25.28	ug/L	1	20	
m,p-Xylenes	1.3333	1.3871	50.00	52.02	ug/L	4	30	
o-Xylene	1.3520	1.4131	25.00	26.13	ug/L	5	30	
Styrene	2.3364	2.4388	25.00	26.10	ug/L	4	30	
Bromoform	0.6160	0.6328	25.00	25.68	ug/L	3	30	
Isopropylbenzene	7.0825	6.6825	25.00	23.59	ug/L	-6	30	
1,1,2,2-Tetrachloroethane	2.4844	2.5486	25.00	25.65	ug/L	3	30	
1,2,3-Trichloropropane	0.6147	0.6325	25.00	25.73	ug/L	3	30	
Propylbenzene	8.9430	9.2544	25.00	25.87	ug/L	3	30	
Bromobenzene	2.0132	1.9974	25.00	24.80	ug/L	-1	30	
1,3,5-Trimethylbenzene	5.7711	6.0255	25.00	26.10	ug/L	4	30	
2-Chlorotoluene	6.1658	6.3096	25.00	25.58	ug/L	2	30	

3/20/06 12/3/2006

8260/6A50A W ICAL

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
4-Chlorotoluene	5.8270	5.8092	25.00	24.92	ug/L	0	30	
tert-Butylbenzene	4.5522	4.8890	25.00	26.85	ug/L	7	30	
1,2,4-Trimethylbenzene	5.8579	6.0393	25.00	25.77	ug/L	3	30	
sec-Butylbenzene	7.0559	7.8400	25.00	27.78	ug/L	11	30	
para-Isopropyl Toluene	5.3578	5.6803	25.00	26.51	ug/L	6	30	
1,3-Dichlorobenzene	3.5204	3.6376	25.00	25.83	ug/L	3	30	
1,4-Dichlorobenzene	3.6559	3.7539	25.00	25.67	ug/L	3	30	
n-Butylbenzene	4.9201	5.3852	25.00	27.36	ug/L	9	30	
1,2-Dichlorobenzene	3.3290	3.4779	25.00	26.12	ug/L	4	30	
1,2-Dibromo-3-Chloropropane	0.3471	0.3651	25.00	26.29	ug/L	5	30	
1,2,4-Trichlorobenzene	1.4560	1.7125	25.00	26.05	ug/L	4	30	
Hexachlorobutadiene	0.5167	0.6416	25.00	33.53	ug/L	**34**	30	v+ ***
Naphthalene	3.4020	4.0956	25.00	24.88	ug/L	0	30	
1,2,3-Trichlorobenzene	1.2641	1.5481	25.00	25.65	ug/L	3	30	
tert-Butyl Alcohol (TBA)	0.1024	0.1142	125.0	122.8	ug/L	-2	30	m
Isopropyl Ether (DIPE)	5.0586	4.3053	25.00	21.28	ug/L	-15	30	
Ethyl tert-Butyl Ether (ETBE)	3.7283	3.5049	25.00	23.50	ug/L	-6	30	
Methyl tert-Amyl Ether (TAME)	1.9326	1.7991	25.00	23.27	ug/L	-7	30	
Cyclohexanone	0.2099	0.0313	250.0	42.85	ug/L	**-83**	30	v- ***
Ethanol	0.0194	0.0174	2500	2239	ug/L	-10	30	
Isopropanol	0.0859	0.0731	250.0	212.8	ug/L	-15	30	
Tetrahydrofuran	0.3823	0.3413	250.0	223.2	ug/L	-11	30	

ISTD (ICAL ich14)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	451410	496829	10.06	11.19	11.19	0.00
1,4-Difluorobenzene	765948	824740	7.68	12.43	12.43	0.00
Chlorobenzene-d5	614102	663872	8.10	16.99	16.99	0.00
1,4-Dichlorobenzene-d4	274931	301491	9.66	19.81	19.80	-0.01

!=warning +=high bias -=low bias m=manual integration v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA05 Run Name: 30PPB IDF : 1.0
Seqnum : 446115665003 File : ec103 Time : 21-MAR-2006 08:28
Cal : 446110313001 Caldate : 17-MAR-2006 Caltype : WATER
Standards: S2783 (16670X), S2844 (16670X), S2410 (33330X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.7566	0.8835	30.00	35.03	ug/L	17	30	0.0500	
Chloromethane	0.9272	0.9188	30.00	29.73	ug/L	-1	30	0.1000	
Vinyl Chloride	0.7321	0.7260	30.00	29.75	ug/L	-1	20	0.0500	
Bromomethane	0.5108	0.2860	30.00	16.80	ug/L	**-44**	30	0.0500	c- ***
Chloroethane	0.3645	0.3675	30.00	30.24	ug/L	1	30	0.0500	
Trichlorofluoromethane	0.9270	1.0114	30.00	32.73	ug/L	9	30	0.0500	
Acetone	0.3180	0.3802	30.00	35.87	ug/L	20	40	0.0500	
Freon 113	0.4339	0.4246	30.00	29.36	ug/L	-2	30	0.0500	
1,1-Dichloroethene	0.4322	0.4293	30.00	29.80	ug/L	-1	20	0.0500	
Methylene Chloride	0.5839	0.5982	30.00	30.74	ug/L	2	30	0.0500	
Carbon Disulfide	1.8224	1.9204	30.00	31.61	ug/L	5	30	0.0500	
MTBE	1.8695	1.9535	30.00	31.35	ug/L	4	30	0.0500	
trans-1,2-Dichloroethene	0.5355	0.5233	30.00	29.32	ug/L	-2	30	0.0500	
Vinyl Acetate	2.1116	2.6215	30.00	37.24	ug/L	24	40	0.0500	
1,1-Dichloroethane	1.1796	1.3180	30.00	33.52	ug/L	12	30	0.1000	
2-Butanone	0.4949	0.6216	30.00	37.68	ug/L	26	40	0.0500	
2,2-Dichloropropane	0.7743	0.9503	30.00	36.82	ug/L	**23**	30	0.0500	!c+
cis-1,2-Dichloroethene	0.6608	0.6354	30.00	28.85	ug/L	-4	30	0.0500	
Chloroform	1.1891	1.2859	30.00	32.44	ug/L	8	20	0.0500	
Bromochloromethane	0.2797	0.2937	30.00	31.51	ug/L	5	30	0.0500	
1,1,1-Trichloroethane	0.8559	0.8319	30.00	29.16	ug/L	-3	30	0.0500	
1,1-Dichloropropene	0.4138	0.4250	30.00	30.81	ug/L	3	30	0.0500	
Carbon Tetrachloride	0.3559	0.3382	30.00	28.51	ug/L	-5	30	0.0500	
1,2-Dichloroethane	0.5890	0.6258	30.00	31.87	ug/L	6	30	0.0500	
Benzene	1.2748	1.2958	30.00	30.49	ug/L	2	30	0.0500	
Trichloroethene	0.3416	0.3090	30.00	27.13	ug/L	-10	30	0.0500	
1,2-Dichloropropane	0.3774	0.4153	30.00	33.01	ug/L	10	20	0.0500	
Bromodichloromethane	0.5189	0.5508	30.00	31.84	ug/L	6	30	0.0500	
Dibromomethane	0.2837	0.2827	30.00	29.89	ug/L	0	30	0.0500	
2-Chloroethylvinylether	0.2267	0.2791	30.00	36.93	ug/L	23	40	0.0500	
4-Methyl-2-Pentanone	0.5862	0.6551	30.00	33.53	ug/L	12	40	0.0500	
Tetramethyl THF	1.1051	1.2414	30.00	33.70	ug/L	12	30	0.0500	
cis-1,3-Dichloropropene	0.5998	0.6502	30.00	32.52	ug/L	8	30	0.0500	
Toluene	0.7475	0.7448	30.00	29.89	ug/L	0	20	0.0500	
trans-1,3-Dichloropropene	0.5760	0.6478	30.00	33.74	ug/L	12	30	0.0500	
1,1,2-Trichloroethane	0.1869	0.2001	30.00	32.11	ug/L	7	30	0.0500	
2-Hexanone	0.4633	0.5470	30.00	35.42	ug/L	18	40	0.0500	
1,3-Dichloropropane	0.6642	0.7138	30.00	32.24	ug/L	7	30	0.0500	
Tetrachloroethene	0.2714	0.2579	30.00	28.50	ug/L	-5	30	0.0500	
Dibromochloromethane	0.3951	0.3935	30.00	29.88	ug/L	0	30	0.0500	
1,2-Dibromoethane	0.3585	0.3576	30.00	29.92	ug/L	0	30	0.0500	
Chlorobenzene	0.9252	0.8608	30.00	27.91	ug/L	-7	30	0.3000	
1,1,1,2-Tetrachloroethane	0.3149	0.3166	30.00	30.16	ug/L	1	30	0.0500	
Ethylbenzene	1.6244	1.5243	30.00	28.15	ug/L	-6	20	0.0500	
m,p-Xylenes	0.5816	0.5122	60.00	52.84	ug/L	-12	30	0.0500	
o-Xylene	0.5847	0.5365	30.00	27.53	ug/L	-8	30	0.0500	
Styrene	1.0352	1.0128	30.00	29.35	ug/L	-2	30	0.0500	
Bromoform	0.3034	0.3087	30.00	30.53	ug/L	2	30	0.1000	
Isopropylbenzene	2.6775	2.0610	30.00	23.09	ug/L	**-23**	30	0.0500	!c-

03/22/06 pr 3/21/06

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.1536	1.1109	30.00	28.89	ug/L	-4	30	0.3000	
1,2,3-Trichloropropane	1.0755	0.9901	30.00	27.62	ug/L	-8	30	0.0500	
Propylbenzene	3.6506	3.0062	30.00	24.70	ug/L	-18	30	0.0500	
Bromobenzene	0.7487	0.6698	30.00	26.84	ug/L	-11	30	0.0500	
1,3,5-Trimethylbenzene	2.3982	1.9006	30.00	23.78	ug/L	**-21**	30	0.0500	!c-
2-Chlorotoluene	2.6817	2.2648	30.00	25.34	ug/L	-16	30	0.0500	
4-Chlorotoluene	2.5158	2.1878	30.00	26.09	ug/L	-13	30	0.0500	
tert-Butylbenzene	1.7521	1.3472	30.00	23.07	ug/L	**-23**	30	0.0500	!c-
1,2,4-Trimethylbenzene	2.5522	2.0161	30.00	23.70	ug/L	**-21**	30	0.0500	!c-
sec-Butylbenzene	2.8209	2.1679	30.00	23.06	ug/L	**-23**	30	0.0500	!c-
para-Isopropyl Toluene	2.1354	1.6753	30.00	23.54	ug/L	**-22**	30	0.0500	!c-
1,3-Dichlorobenzene	1.3222	1.1341	30.00	25.73	ug/L	-14	30	0.0500	
1,4-Dichlorobenzene	1.3780	1.2637	30.00	27.51	ug/L	-8	30	0.0500	
n-Butylbenzene	2.3687	1.9584	30.00	24.80	ug/L	-17	30	0.0500	
1,2-Dichlorobenzene	1.2918	1.1518	30.00	26.75	ug/L	-11	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.2294	0.2196	30.00	28.73	ug/L	-4	30	0.0500	
1,2,4-Trichlorobenzene	0.7933	0.7411	30.00	26.66	ug/L	-11	30	0.0500	
Hexachlorobutadiene	0.2009	0.1801	30.00	26.33	ug/L	-12	30	0.0500	
Naphthalene	1.8511	1.8843	30.00	27.34	ug/L	-9	30	0.0500	
1,2,3-Trichlorobenzene	0.7698	0.6937	30.00	27.03	ug/L	-10	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0733	0.0803	300.0	328.9	ug/L	10	30	0.0050	
Isopropyl Ether (DIPE)	3.1555	3.7044	30.00	35.22	ug/L	17	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	2.1864	2.4116	30.00	33.09	ug/L	10	30	0.0500	
Methyl tert-Amyl Ether (TAME)	1.0760	1.1062	30.00	30.84	ug/L	3	30	0.0500	
Cyclohexanone	0.0942	0.1202	300.0	382.9	ug/L	**28**	30	0.0050	!c+ rsd ***
Ethanol	0.0099	0.0113	3000	3418	ug/L	14	30	5.0E-4	
Isopropanol	0.0562	0.0646	300.0	344.7	ug/L	15	30	0.0050	
Tetrahydrofuran	0.2668	0.3199	300.0	359.8	ug/L	20	30	0.0050	
Dibromofluoromethane	0.6797	0.7199	50.00	52.96	ug/L	6	30	0.0500	
1,2-Dichloroethane-d4	0.5267	0.5899	50.00	56.00	ug/L	12	30	0.0500	
Trifluorotoluene	0.3183	0.3119	30.00	29.40	ug/L	-2	30	0.0500	
Toluene-d8	1.1388	1.1768	50.00	51.67	ug/L	3	30	0.0500	
Bromofluorobenzene	1.3230	1.2269	50.00	46.36	ug/L	-7	30	0.0500	

ISTD (ICAL ech10)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	533288	401084	-24.79	10.24	10.24	0.00
1,4-Difluorobenzene	942862	719550	-23.68	11.37	11.37	0.00
Chlorobenzene-d5	845304	637754	-24.55	15.40	15.40	0.00
1,4-Dichlorobenzene-d4	434480	361493	-16.80	18.12	18.12	0.00

!=warning +=high bias -=low bias c=CCV rsd=ICAL %RSD failure

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA06 Run Name: 40PPB IDF : 1.0
Seqnum : 456115675003 File : fcl03 Time : 21-MAR-2006 08:45
Cal : 456098395001 Caldate : 09-MAR-2006 Caltype : WATER
Standards: S2844 (12500X), S2783 (12500X), S2410 (25000X), S2740 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.8758	1.0350	40.00	47.27	ug/L	18	30	0.0500	
Chloromethane	0.8831	0.8254	40.00	37.39	ug/L	-7	30	0.1000	
Vinyl Chloride	0.7006	0.7315	40.00	41.76	ug/L	4	20	0.0500	
Bromomethane	0.4629	0.4642	40.00	40.11	ug/L	0	30	0.0500	
Chloroethane	0.3861	0.3845	40.00	39.83	ug/L	0	30	0.0500	
Trichlorofluoromethane	0.9702	1.1021	40.00	45.44	ug/L	14	30	0.0500	
Acetone	0.3588	0.4233	40.00	47.19	ug/L	18	40	0.0500	
Freon 113	0.4860	0.3885	40.00	29.30	ug/L	-27	30	0.0500	!c-
1,1-Dichloroethene	0.5785	0.5102	40.00	35.28	ug/L	-12	20	0.0500	
Methylene Chloride	0.8432	0.8821	40.00	41.85	ug/L	5	30	0.0500	
Carbon Disulfide	2.3558	2.2154	40.00	37.62	ug/L	-6	30	0.0500	
MTBE	2.3661	2.4144	40.00	40.82	ug/L	2	30	0.0500	
trans-1,2-Dichloroethene	0.7174	0.6738	40.00	37.57	ug/L	-6	30	0.0500	
Vinyl Acetate	2.1122	2.4924	40.00	47.20	ug/L	18	40	0.0500	
1,1-Dichloroethane	1.3283	1.3483	40.00	40.60	ug/L	2	30	0.1000	
2-Butanone	0.5094	0.6022	40.00	47.29	ug/L	18	40	0.0500	
2,2-Dichloropropane	0.8606	0.9136	40.00	42.47	ug/L	6	30	0.0500	
cis-1,2-Dichloroethene	0.8444	0.8013	40.00	37.96	ug/L	-5	30	0.0500	
Chloroform	1.3107	1.3541	40.00	41.33	ug/L	3	20	0.0500	
Bromochloromethane	0.3941	0.4244	40.00	43.08	ug/L	8	30	0.0500	
1,1,1-Trichloroethane	0.8608	0.7194	40.00	33.43	ug/L	-16	30	0.0500	
1,1-Dichloropropene	0.4704	0.4151	40.00	35.30	ug/L	-12	30	0.0500	
Carbon Tetrachloride	0.3261	0.2982	40.00	36.57	ug/L	-9	30	0.0500	
1,2-Dichloroethane	0.5232	0.5476	40.00	41.87	ug/L	5	30	0.0500	
Benzene	1.5622	1.5226	40.00	38.99	ug/L	-3	30	0.0500	
Trichloroethene	0.3692	0.3393	40.00	36.77	ug/L	-8	30	0.0500	
1,2-Dichloropropane	0.4513	0.4477	40.00	39.68	ug/L	-1	20	0.0500	
Bromodichloromethane	0.5305	0.5641	40.00	42.54	ug/L	6	30	0.0500	
Dibromomethane	0.3124	0.3247	40.00	41.58	ug/L	4	30	0.0500	
2-Chloroethylvinylether	0.0301	0.0080	40.00	10.69	ug/L	-73	40	0.0500	c- crf irf rsd ***
4-Methyl-2-Pentanone	0.5545	0.6006	40.00	43.32	ug/L	8	40	0.0500	
Tetramethyl THF	0.9678	0.9983	40.00	41.26	ug/L	3	30	0.0500	
cis-1,3-Dichloropropene	0.6778	0.7154	40.00	42.22	ug/L	6	30	0.0500	
Toluene	0.8800	0.8303	40.00	37.74	ug/L	-6	20	0.0500	
trans-1,3-Dichloropropene	0.6256	0.6640	40.00	42.45	ug/L	6	30	0.0500	
1,1,2-Trichloroethane	0.2283	0.2350	40.00	41.16	ug/L	3	30	0.0500	
2-Hexanone	0.4698	0.5258	40.00	44.77	ug/L	12	40	0.0500	
1,3-Dichloropropane	0.8366	0.8671	40.00	41.46	ug/L	4	30	0.0500	
Tetrachloroethene	0.3445	0.3004	40.00	34.89	ug/L	-13	30	0.0500	
Dibromochloromethane	0.4736	0.5280	40.00	44.60	ug/L	11	30	0.0500	
1,2-Dibromoethane	0.4288	0.4478	40.00	41.77	ug/L	4	30	0.0500	
Chlorobenzene	1.0998	1.1156	40.00	40.58	ug/L	1	30	0.3000	
1,1,1,2-Tetrachloroethane	0.4076	0.4101	40.00	40.25	ug/L	1	30	0.0500	
Ethylbenzene	1.8069	1.7092	40.00	37.84	ug/L	-5	20	0.0500	
m,p-Xylenes	0.6428	0.5899	80.00	73.41	ug/L	-8	30	0.0500	
o-Xylene	0.6565	0.6309	40.00	38.44	ug/L	-4	30	0.0500	
Styrene	1.1624	1.1814	40.00	40.66	ug/L	2	30	0.0500	
Bromoform	0.3842	0.4108	40.00	42.77	ug/L	7	30	0.1000	
Isopropylbenzene	3.0248	2.4937	40.00	32.98	ug/L	-18	30	0.0500	

3/27/06 3/27/06

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.4808	1.5476	40.00	41.80	ug/L	5	30	0.3000	
1,2,3-Trichloropropane	1.2054	1.2073	40.00	40.06	ug/L	0	30	0.0500	
Propylbenzene	3.7416	3.1863	40.00	34.06	ug/L	-15	30	0.0500	
Bromobenzene	1.0284	1.0206	40.00	39.70	ug/L	-1	30	0.0500	
1,3,5-Trimethylbenzene	2.1948	2.0005	40.00	36.46	ug/L	-9	30	0.0500	
2-Chlorotoluene	2.8627	2.6419	40.00	36.91	ug/L	-8	30	0.0500	
4-Chlorotoluene	2.6572	2.5269	40.00	38.04	ug/L	-5	30	0.0500	
tert-Butylbenzene	1.7779	1.4650	40.00	32.96	ug/L	-18	30	0.0500	
1,2,4-Trimethylbenzene	2.0875	1.9968	40.00	38.26	ug/L	-4	30	0.0500	
sec-Butylbenzene	2.4829	2.1002	40.00	33.83	ug/L	-15	30	0.0500	
para-Isopropyl Toluene	1.7295	1.5613	40.00	36.11	ug/L	-10	30	0.0500	
1,3-Dichlorobenzene	1.5895	1.5494	40.00	38.99	ug/L	-3	30	0.0500	
1,4-Dichlorobenzene	1.6202	1.6158	40.00	39.89	ug/L	0	30	0.0500	
n-Butylbenzene	1.3453	1.3167	40.00	39.15	ug/L	-2	30	0.0500	
1,2-Dichlorobenzene	1.5850	1.5705	40.00	39.63	ug/L	-1	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.2746	0.2725	40.00	42.58	ug/L	6	30	0.0500	
1,2,4-Trichlorobenzene	0.3669	0.4835	40.00	43.44	ug/L	9	30	0.0500	
Hexachlorobutadiene	0.1698	0.2013	40.00	40.02	ug/L	0	30	0.0500	
Naphthalene	1.3059	1.6064	40.00	42.99	ug/L	7	30	0.0500	
1,2,3-Trichlorobenzene	0.3141	0.4693	40.00	43.44	ug/L	9	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0759	0.0874	400.0	460.7	ug/L	15	30	0.0050	
Isopropyl Ether (DIPE)	3.2114	3.2619	40.00	40.63	ug/L	2	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	2.3697	2.4135	40.00	40.74	ug/L	2	30	0.0500	
Methyl tert-Amyl Ether (TAME)	1.2404	1.2615	40.00	40.68	ug/L	2	30	0.0500	
Ethanol	0.0103	0.0119	4000	4631	ug/L	16	30	5.0E-4	
Isopropanol	0.0549	0.0642	400.0	467.4	ug/L	17	30	0.0050	
Tetrahydrofuran	0.2787	0.2885	400.0	414.0	ug/L	4	30	0.0050	
Dibromofluoromethane	0.6665	0.6443	50.00	48.33	ug/L	-3	30	0.0500	
1,2-Dichloroethane-d4	0.4034	0.4164	50.00	51.61	ug/L	3	30	0.0500	
Trifluorotoluene	0.4068	0.3527	40.00	34.68	ug/L	-13	30	0.0500	
Toluene-d8	1.0888	1.0864	50.00	49.89	ug/L	0	30	0.0500	
Bromofluorobenzene	1.1972	1.1613	50.00	48.50	ug/L	-3	30	0.0500	

ISTD (ICAL fc921)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	957753	922074	-3.73	12.35	12.33	-0.02
1,4-Difluorobenzene	1704082	1693327	-0.63	13.66	13.64	-0.02
Chlorobenzene-d5	1422227	1394510	-1.95	18.32	18.30	-0.02
1,4-Dichlorobenzene-d4	701343	691782	-1.36	21.16	21.14	-0.02

!=warning -=low bias c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure rsd=ICAL %RSD failure

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA06 Run Name: 40PPB IDF : 1.0
Seqnum : 456115675007 File : fcl07 Time : 21-MAR-2006 11:02
Cal : 456098395001 Caldate : 09-MAR-2006 Caltype : WATER
Standards: S2740 (1000X), S2844 (12500X), S2783 (12500X), S2410 (25000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.8758	0.9286	40.00	42.41	ug/L	6	30	0.0500	
Chloromethane	0.8831	0.7357	40.00	33.32	ug/L	-17	30	0.1000	
Vinyl Chloride	0.7006	0.6549	40.00	37.39	ug/L	-7	20	0.0500	
Bromomethane	0.4629	0.4194	40.00	36.24	ug/L	-9	30	0.0500	
Chloroethane	0.3861	0.3526	40.00	36.53	ug/L	-9	30	0.0500	
Trichlorofluoromethane	0.9702	0.9930	40.00	40.94	ug/L	2	30	0.0500	
Acetone	0.3588	0.3702	40.00	41.27	ug/L	3	40	0.0500	
Freon 113	0.4860	0.3449	40.00	26.17	ug/L	-35	30	0.0500	c- ***
1,1-Dichloroethene	0.5785	0.4671	40.00	32.30	ug/L	-19	20	0.0500	
Methylene Chloride	0.8432	0.7963	40.00	37.78	ug/L	-6	30	0.0500	
Carbon Disulfide	2.3558	1.9795	40.00	33.61	ug/L	-16	30	0.0500	
MTBE	2.3661	2.2837	40.00	38.61	ug/L	-3	30	0.0500	
trans-1,2-Dichloroethene	0.7174	0.6199	40.00	34.57	ug/L	-14	30	0.0500	
Vinyl Acetate	2.1122	2.1602	40.00	40.91	ug/L	2	40	0.0500	
1,1-Dichloroethane	1.3283	1.1910	40.00	35.87	ug/L	-10	30	0.1000	
2-Butanone	0.5094	0.5329	40.00	41.84	ug/L	5	40	0.0500	
2,2-Dichloropropane	0.8606	0.7760	40.00	36.07	ug/L	-10	30	0.0500	
cis-1,2-Dichloroethene	0.8444	0.7445	40.00	35.27	ug/L	-12	30	0.0500	
Chloroform	1.3107	1.2125	40.00	37.00	ug/L	-7	20	0.0500	
Bromochloromethane	0.3941	0.3860	40.00	39.18	ug/L	-2	30	0.0500	
1,1,1-Trichloroethane	0.8608	0.7042	40.00	32.72	ug/L	-18	30	0.0500	
1,1-Dichloropropene	0.4704	0.3910	40.00	33.25	ug/L	-17	30	0.0500	
Carbon Tetrachloride	0.3261	0.2748	40.00	33.70	ug/L	-16	30	0.0500	
1,2-Dichloroethane	0.5232	0.5185	40.00	39.64	ug/L	-1	30	0.0500	
Benzene	1.5622	1.4116	40.00	36.14	ug/L	-10	30	0.0500	
Trichloroethene	0.3692	0.3244	40.00	35.14	ug/L	-12	30	0.0500	
1,2-Dichloropropane	0.4513	0.4205	40.00	37.27	ug/L	-7	20	0.0500	
Bromodichloromethane	0.5305	0.5382	40.00	40.58	ug/L	1	30	0.0500	
Dibromomethane	0.3124	0.3150	40.00	40.33	ug/L	1	30	0.0500	
2-Chloroethylvinylether	0.0301	0.0070	40.00	9.263	ug/L	-77	40	0.0500	c- crf irf rsd ***
4-Methyl-2-Pentanone	0.5545	0.5648	40.00	40.74	ug/L	2	40	0.0500	
Tetramethyl THF	0.9678	0.9573	40.00	39.56	ug/L	-1	30	0.0500	
cis-1,3-Dichloropropene	0.6778	0.6784	40.00	40.04	ug/L	0	30	0.0500	
Toluene	0.8800	0.7846	40.00	35.66	ug/L	-11	20	0.0500	
trans-1,3-Dichloropropene	0.6256	0.6242	40.00	39.91	ug/L	0	30	0.0500	
1,1,2-Trichloroethane	0.2283	0.2197	40.00	38.49	ug/L	-4	30	0.0500	
2-Hexanone	0.4698	0.4813	40.00	40.98	ug/L	2	40	0.0500	
1,3-Dichloropropane	0.8366	0.8141	40.00	38.92	ug/L	-3	30	0.0500	
Tetrachloroethene	0.3445	0.2803	40.00	32.55	ug/L	-19	30	0.0500	
Dibromochloromethane	0.4736	0.5033	40.00	42.51	ug/L	6	30	0.0500	
1,2-Dibromoethane	0.4288	0.4277	40.00	39.90	ug/L	0	30	0.0500	
Chlorobenzene	1.0998	1.0221	40.00	37.17	ug/L	-7	30	0.3000	
1,1,1,2-Tetrachloroethane	0.4076	0.3876	40.00	38.04	ug/L	-5	30	0.0500	
Ethylbenzene	1.8069	1.5847	40.00	35.08	ug/L	-12	20	0.0500	
m,p-Xylenes	0.6428	0.5509	80.00	68.56	ug/L	-14	30	0.0500	
o-Xylene	0.6565	0.5939	40.00	36.19	ug/L	-10	30	0.0500	
Styrene	1.1624	1.0853	40.00	37.35	ug/L	-7	30	0.0500	
Bromoform	0.3842	0.3971	40.00	41.34	ug/L	3	30	0.1000	
Isopropylbenzene	3.0248	2.3300	40.00	30.81	ug/L	-23	30	0.0500	!c-

A 03/22/06 R 3/21/06

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.4808	1.4277	40.00	38.57	ug/L	-4	30	0.3000	
1,2,3-Trichloropropane	1.2054	1.1251	40.00	37.34	ug/L	-7	30	0.0500	
Propylbenzene	3.7416	2.9063	40.00	31.07	ug/L	**-22**	30	0.0500	!c-
Bromobenzene	1.0284	0.9580	40.00	37.26	ug/L	-7	30	0.0500	
1,3,5-Trimethylbenzene	2.1948	1.8403	40.00	33.54	ug/L	-16	30	0.0500	
2-Chlorotoluene	2.8627	2.4245	40.00	33.88	ug/L	-15	30	0.0500	
4-Chlorotoluene	2.6572	2.2623	40.00	34.06	ug/L	-15	30	0.0500	
tert-Butylbenzene	1.7779	1.3250	40.00	29.81	ug/L	**-25**	30	0.0500	!c-
1,2,4-Trimethylbenzene	2.0875	1.8485	40.00	35.42	ug/L	-11	30	0.0500	
sec-Butylbenzene	2.4829	1.8517	40.00	29.83	ug/L	**-25**	30	0.0500	!c-
para-Isopropyl Toluene	1.7295	1.3897	40.00	32.14	ug/L	-20	30	0.0500	
1,3-Dichlorobenzene	1.5895	1.4639	40.00	36.84	ug/L	-8	30	0.0500	
1,4-Dichlorobenzene	1.6202	1.4888	40.00	36.76	ug/L	-8	30	0.0500	
n-Butylbenzene	1.3453	1.1093	40.00	32.98	ug/L	-18	30	0.0500	
1,2-Dichlorobenzene	1.5850	1.4836	40.00	37.44	ug/L	-6	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.2746	0.2489	40.00	38.68	ug/L	-3	30	0.0500	
1,2,4-Trichlorobenzene	0.3669	0.4202	40.00	38.52	ug/L	-4	30	0.0500	
Hexachlorobutadiene	0.1698	0.1385	40.00	28.33	ug/L	**-29**	30	0.0500	!c-
Naphthalene	1.3059	1.4999	40.00	40.41	ug/L	1	30	0.0500	
1,2,3-Trichlorobenzene	0.3141	0.4200	40.00	39.51	ug/L	-1	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0759	0.0759	400.0	400.0	ug/L	0	30	0.0050	
Isopropyl Ether (DIPE)	3.2114	3.1062	40.00	38.69	ug/L	-3	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	2.3697	2.2213	40.00	37.49	ug/L	-6	30	0.0500	
Methyl tert-Amyl Ether (TAME)	1.2404	1.2065	40.00	38.91	ug/L	-3	30	0.0500	
Ethanol	0.0103	0.0097	4000	3799	ug/L	-5	30	5.0E-4	
Isopropanol	0.0549	0.0534	400.0	388.6	ug/L	-3	30	0.0050	
Tetrahydrofuran	0.2787	0.2632	400.0	377.8	ug/L	-6	30	0.0050	
Dibromofluoromethane	0.6665	0.6656	50.00	49.93	ug/L	0	30	0.0500	
1,2-Dichloroethane-d4	0.4034	0.4089	50.00	50.67	ug/L	1	30	0.0500	
Trifluorotoluene	0.4068	0.3331	40.00	32.75	ug/L	-18	30	0.0500	
Toluene-d8	1.0888	1.0912	50.00	50.11	ug/L	0	30	0.0500	
Bromofluorobenzene	1.1972	1.1329	50.00	47.31	ug/L	-5	30	0.0500	

ISTD (ICAL fc921)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	957753	977222	2.03	12.35	12.33	-0.02
1,4-Difluorobenzene	1704082	1710416	0.37	13.66	13.65	-0.01
Chlorobenzene-d5	1422227	1427362	0.36	18.32	18.31	-0.01
1,4-Dichlorobenzene-d4	701343	719141	2.54	21.16	21.14	-0.02

!=warning -=low bias c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure rsd=ICAL %RSD failure

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA09 Run Name: 30PPB IDF : 1.0
Seqnum : 486115658003 File : icl03 Time : 21-MAR-2006 08:31
Cal : 486109916001 Caldate : 17-MAR-2006 Caltype : WATER
Standards: S2783 (16670X), S2844 (16670X), S2410 (33330X), S2743 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	1.4365	1.4161	30.00	29.57	ug/L	-1	30	0.0500	
Chloromethane	2.1612	1.8334	30.00	25.45	ug/L	-15	30	0.1000	
Vinyl Chloride	1.7031	1.4899	30.00	26.24	ug/L	-13	20	0.0500	
Bromomethane	0.6595	0.4040	30.00	16.10	ug/L	**-46**	30	0.0500	c- m ***
Chloroethane	0.9451	0.8531	30.00	27.08	ug/L	-10	30	0.0500	
Trichlorofluoromethane	1.7287	1.6957	30.00	29.43	ug/L	-2	30	0.0500	
Acetone	0.4709	0.4424	30.00	28.18	ug/L	-6	40	0.0500	
Freon 113	1.0231	0.9203	30.00	26.99	ug/L	-10	30	0.0500	
1,1-Dichloroethene	0.9965	0.9155	30.00	27.56	ug/L	-8	20	0.0500	
Methylene Chloride	1.3775	1.2775	30.00	27.82	ug/L	-7	30	0.0500	
Carbon Disulfide	4.3656	3.9447	30.00	27.11	ug/L	-10	30	0.0500	
MTBE	3.4925	3.3485	30.00	28.76	ug/L	-4	30	0.0500	
trans-1,2-Dichloroethene	1.2317	1.1189	30.00	27.25	ug/L	-9	30	0.0500	
Vinyl Acetate	3.0384	3.1685	30.00	31.28	ug/L	4	40	0.0500	
1,1-Dichloroethane	2.2257	2.0829	30.00	28.08	ug/L	-6	30	0.1000	
2-Butanone	0.6669	0.6214	30.00	27.95	ug/L	-7	40	0.0500	
2,2-Dichloropropane	1.3257	1.3677	30.00	30.95	ug/L	3	30	0.0500	
cis-1,2-Dichloroethene	1.3556	1.2791	30.00	28.31	ug/L	-6	30	0.0500	
Chloroform	2.0806	1.9145	30.00	27.61	ug/L	-8	20	0.0500	
Bromochloromethane	0.6496	0.6409	30.00	29.60	ug/L	-1	30	0.0500	
1,1,1-Trichloroethane	1.4044	1.2837	30.00	27.42	ug/L	-9	30	0.0500	
1,1-Dichloropropene	0.8558	0.7602	30.00	26.65	ug/L	-11	30	0.0500	
Carbon Tetrachloride	0.6433	0.5839	30.00	27.23	ug/L	-9	30	0.0500	
1,2-Dichloroethane	0.8153	0.7933	30.00	29.19	ug/L	-3	30	0.0500	
Benzene	2.8066	2.4923	30.00	26.64	ug/L	-11	30	0.0500	
Trichloroethene	0.6712	0.6003	30.00	26.83	ug/L	-11	30	0.0500	
1,2-Dichloropropane	0.7792	0.7367	30.00	28.36	ug/L	-5	20	0.0500	
Bromodichloromethane	0.8640	0.8286	30.00	28.77	ug/L	-4	30	0.0500	
Dibromomethane	0.4927	0.4760	30.00	28.98	ug/L	-3	30	0.0500	
2-Chloroethylvinylether	0.2942	0.3283	30.00	33.48	ug/L	12	40	0.0500	
4-Methyl-2-Pentanone	0.7442	0.6850	30.00	27.61	ug/L	-8	40	0.0500	
Tetramethyl THF	1.3947	1.3464	30.00	28.96	ug/L	-3	30	0.0500	
cis-1,3-Dichloropropene	1.1472	1.0887	30.00	28.47	ug/L	-5	30	0.0500	
Toluene	1.6021	1.4042	30.00	26.29	ug/L	-12	20	0.0500	
trans-1,3-Dichloropropene	0.9950	0.9806	30.00	29.57	ug/L	-1	30	0.0500	
1,1,2-Trichloroethane	0.3494	0.3315	30.00	28.46	ug/L	-5	30	0.0500	
2-Hexanone	0.6248	0.5917	30.00	28.41	ug/L	-5	40	0.0500	
1,3-Dichloropropane	1.3691	1.3537	30.00	29.66	ug/L	-1	30	0.0500	
Tetrachloroethene	0.6915	0.5914	30.00	25.65	ug/L	-14	30	0.0500	
Dibromochloromethane	0.8482	0.8282	30.00	29.29	ug/L	-2	30	0.0500	
1,2-Dibromoethane	0.7115	0.6698	30.00	28.24	ug/L	-6	30	0.0500	
Chlorobenzene	2.2545	2.0014	30.00	26.63	ug/L	-11	30	0.3000	
1,1,1,2-Tetrachloroethane	0.7446	0.6872	30.00	27.69	ug/L	-8	30	0.0500	
Ethylbenzene	3.5927	3.1510	30.00	26.31	ug/L	-12	20	0.0500	
m,p-Xylenes	1.3333	1.1816	60.00	53.17	ug/L	-11	30	0.0500	
o-Xylene	1.3520	1.1860	30.00	26.32	ug/L	-12	30	0.0500	
Styrene	2.3364	2.1838	30.00	28.04	ug/L	-7	30	0.0500	
Bromoform	0.6160	0.5737	30.00	27.94	ug/L	-7	30	0.1000	
Isopropylbenzene	7.0825	5.7846	30.00	24.50	ug/L	-18	30	0.0500	

B/22/06 M-3/21/06

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	2.4844	2.3074	30.00	27.86	ug/L	-7	30	0.3000	
1,2,3-Trichloropropane	0.6147	0.5681	30.00	27.73	ug/L	-8	30	0.0500	
Propylbenzene	8.9430	7.4411	30.00	24.96	ug/L	-17	30	0.0500	
Bromobenzene	2.0132	1.7332	30.00	25.83	ug/L	-14	30	0.0500	
1,3,5-Trimethylbenzene	5.7711	4.9022	30.00	25.48	ug/L	-15	30	0.0500	
2-Chlorotoluene	6.1658	5.2955	30.00	25.77	ug/L	-14	30	0.0500	
4-Chlorotoluene	5.8270	5.0088	30.00	25.79	ug/L	-14	30	0.0500	
tert-Butylbenzene	4.5522	3.7013	30.00	24.39	ug/L	-19	30	0.0500	
1,2,4-Trimethylbenzene	5.8579	5.1245	30.00	26.24	ug/L	-13	30	0.0500	
sec-Butylbenzene	7.0559	5.8777	30.00	24.99	ug/L	-17	30	0.0500	
para-Isopropyl Toluene	5.3578	4.6032	30.00	25.78	ug/L	-14	30	0.0500	
1,3-Dichlorobenzene	3.5204	3.0856	30.00	26.30	ug/L	-12	30	0.0500	
1,4-Dichlorobenzene	3.6559	3.2182	30.00	26.41	ug/L	-12	30	0.0500	
n-Butylbenzene	4.9201	4.4839	30.00	27.34	ug/L	-9	30	0.0500	
1,2-Dichlorobenzene	3.3290	3.0089	30.00	27.12	ug/L	-10	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.3471	0.3405	30.00	29.43	ug/L	-2	30	0.0500	
1,2,4-Trichlorobenzene	1.4560	1.5388	30.00	28.05	ug/L	-7	30	0.0500	
Hexachlorobutadiene	0.5167	0.4844	30.00	28.65	ug/L	-5	30	0.0500	
Naphthalene	3.4020	3.9565	30.00	28.72	ug/L	-4	30	0.0500	
1,2,3-Trichlorobenzene	1.2641	1.4190	30.00	28.15	ug/L	-6	30	0.0500	
tert-Butyl Alcohol (TBA)	0.1024	0.0979	300.0	249.0	ug/L	-17	30	0.0050	m
Isopropyl Ether (DIPE)	5.0586	4.7871	30.00	28.39	ug/L	-5	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	3.7283	3.5063	30.00	28.21	ug/L	-6	30	0.0500	
Methyl tert-Amyl Ether (TAME)	1.9326	1.8362	30.00	28.50	ug/L	-5	30	0.0500	
Cyclohexanone	0.2099	0.2468	300.0	301.6	ug/L	1	30	0.0050	
Ethanol	0.0194	0.0161	3000	2493	ug/L	-17	30	5.0E-4	
Isopropanol	0.0859	0.0710	300.0	247.9	ug/L	-17	30	0.0050	
Tetrahydrofuran	0.3823	0.3367	300.0	264.2	ug/L	-12	30	0.0050	
Dibromofluoromethane	0.5737	0.5987	50.00	52.18	ug/L	4	30	0.0500	
1,2-Dichloroethane-d4	0.3071	0.3222	50.00	52.46	ug/L	5	30	0.0500	
Trifluorotoluene	0.8484	0.7147	30.00	25.27	ug/L	-16	30	0.0500	
Toluene-d8	0.9636	0.9512	50.00	49.36	ug/L	-1	30	0.0500	
Bromofluorobenzene	1.1428	1.1254	50.00	49.24	ug/L	-2	30	0.0500	

ISTD (ICAL ich14)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	451410	389447	-13.73	11.19	11.18	-0.01
1,4-Difluorobenzene	765948	676245	-11.71	12.43	12.42	-0.01
Chlorobenzene-d5	614102	520613	-15.22	16.99	16.98	-0.01
1,4-Dichlorobenzene-d4	274931	238202	-13.36	19.81	19.80	-0.01

-=low bias c=CCV m=manual integration

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 21-MAR-2006
Sequence: 446115665 (ecl)
Instrument ID: MSVOA05

ICAL Filename: ech10
Date Analyzed: 17-MAR-2006
Time Analyzed: 20:20

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	533288	10.24	942862	11.37	845304	15.40	434480	18.12
LOWER LIMIT	266644	9.74	471431	10.87	422652	14.90	217240	17.62
UPPER LIMIT	1066576	10.74	1885724	11.87	1690608	15.90	868960	18.62

TYPE	SAMPLE	#								
CCV	30PPB	003	401084	10.24	719550	11.37	637754	15.40	361493	18.12
BS	QC332271	004	406700	10.23	730712	11.37	627106	15.40	371001	18.12
BSD	QC332272	005	407921	10.23	730482	11.37	619363	15.40	368576	18.12
BLANK	QC332273	007	407142	10.24	720058	11.36	613546	15.41	304658	18.12
SAMPLE	185586-012	008	405224	10.23	700095	11.37	625194	15.40	306161	18.12
SAMPLE	185586-017	009	401805	10.23	706242	11.37	609011	15.40	300755	18.12
SAMPLE	185567-002	010	400709	10.23	735016	11.37	608002	15.40	298557	18.12
SAMPLE	185586-020	011	395111	10.24	725803	11.36	615506	15.40	289242	18.12
SAMPLE	185586-021	012	384144	10.23	717696	11.37	615929	15.40	303304	18.12
SAMPLE	185586-022	013	398195	10.24	715602	11.37	610951	15.40	293901	18.11
SAMPLE	185586-023	014	397272	10.24	694031	11.37	602522	15.40	293097	18.11
SAMPLE	185586-024	015	390876	10.24	699135	11.37	584281	15.41	299006	18.12
SAMPLE	185586-025	016	391198	10.23	713162	11.37	612611	15.40	296505	18.12
SAMPLE	185586-026	017	388220	10.24	702240	11.36	603494	15.40	290674	18.11

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 21-MAR-2006
Sequence: 456115675 (fcl)
Instrument ID: MSVOA06

ICAL Filename: fc921
Date Analyzed: 09-MAR-2006
Time Analyzed: 19:47

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	957753	12.35	1704082	13.66	1422227	18.32	701343	21.16
LOWER LIMIT	478877	11.85	852041	13.16	711114	17.82	350672	20.66
UPPER LIMIT	1915506	12.85	3408164	14.16	2844454	18.82	1402686	21.66

TYPE	SAMPLE	#								
CCV	40PPB	003	922074	12.33	1693327	13.64	1394510	18.30	691782	21.14
BS	QC332274	004	960360	12.33	1694023	13.64	1426466	18.31	704260	21.15
BSD	QC332275	005	958839	12.32	1708571	13.64	1431650	18.31	691280	21.15
CCV	40PPB	007	977222	12.33	1710416	13.65	1427362	18.31	719141	21.14
BLANK	QC332276	009	975370	12.32	1748251	13.63	1411146	18.30	628777	21.14
SAMPLE	185574-041	010	942100	12.32	1643902	13.63	1374521	18.30	618659	21.14
SAMPLE	185574-036	011	923289	12.32	1663756	13.64	1367856	18.31	602077	21.15
SAMPLE	185574-037	012	926175	12.33	1650039	13.64	1356512	18.31	597747	21.15
SAMPLE	185574-038	013	950144	12.33	1748076	13.64	1431975	18.31	594496	21.15
SAMPLE	185574-039	014	881588	12.32	1598723	13.63	1313707	18.30	591060	21.14
SAMPLE	185574-040	015	887742	12.32	1591807	13.63	1331453	18.30	570481	21.14
SAMPLE	185586-001	016	865342	12.32	1584426	13.64	1331315	18.30	579366	21.15
SAMPLE	185586-002	017	883943	12.31	1633216	13.63	1331811	18.30	600612	21.14
SAMPLE	185586-003	018	867956	12.31	1590247	13.63	1329160	18.30	581435	21.14
SAMPLE	185586-004	019	858207	12.31	1596405	13.63	1293333	18.30	572341	21.14
SAMPLE	185586-005	020	845776	12.32	1557909	13.64	1322148	18.30	588941	21.14
SAMPLE	185586-006	021	831063	12.32	1520588	13.64	1288258	18.30	562882	21.14
SAMPLE	185558-024	022	837499	12.31	1540394	13.63	1280670	18.30	575291	21.14
SAMPLE	185558-020	023	857127	12.31	1552618	13.63	1312926	18.30	607938	21.14
SAMPLE	185586-007	024	866340	12.32	1588631	13.64	1334099	18.31	584762	21.16
SAMPLE	185586-008	025	853188	12.31	1565638	13.63	1325569	18.30	586293	21.14
SAMPLE	185586-009	026	837902	12.31	1530932	13.63	1276361	18.30	555471	21.14

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 21-MAR-2006
Sequence: 486115658 (icl)
Instrument ID: MSVOA09

ICAL Filename: ich14
Date Analyzed: 17-MAR-2006
Time Analyzed: 16:48

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	451410	11.19	765948	12.43	614102	16.99	274931	19.81
LOWER LIMIT	225705	10.69	382974	11.93	307051	16.49	137466	19.31
UPPER LIMIT	902820	11.69	1531896	12.93	1228204	17.49	549862	20.31

TYPE	SAMPLE	#								
CCV	30PPB	003	389447	11.18	676245	12.42	520613	16.98	238202	19.80
BS	QC332277	004	403527	11.18	694696	12.42	555694	16.98	245728	19.80
BSD	QC332278	005	407393	11.19	702273	12.42	549629	16.99	247916	19.80
BLANK	QC332279	007	395422	11.18	688467	12.42	537323	16.98	229825	19.80
SAMPLE	185586-018	008	392559	11.18	683562	12.42	528717	16.98	227837	19.79
SAMPLE	185586-019	009	375776	11.18	671985	12.42	517063	16.98	220567	19.80
SAMPLE	185606-008	010	388547	11.18	683684	12.43	526462	16.98	227426	19.79
SAMPLE	185606-010	011	374093	11.18	660161	12.42	513464	16.98	221389	19.80
SAMPLE	185606-003	012	372891	11.18	668980	12.42	515947	16.98	215589	19.80
SAMPLE	185606-006	013	372851	11.18	659790	12.42	510088	16.98	216895	19.80
SAMPLE	185606-002	014	365829	11.18	651713	12.42	494716	16.98	213525	19.80
SAMPLE	185606-004	015	365908	11.18	652508	12.42	504120	16.97	224247	19.80
SAMPLE	185606-009	016	370295	11.18	651607	12.42	501453	16.98	225010	19.80
SAMPLE	185606-007	017	364152	11.18	654156	12.42	504132	16.98	215479	19.80
SAMPLE	185606-012	018	375343	11.17	661461	12.41	508873	16.97	229626	19.79
SAMPLE	185606-001	019	380699	11.18	671880	12.41	518383	16.98	225208	19.80
SAMPLE	185636-001	020	373180	11.18	663602	12.42	515415	16.98	230050	19.80
SAMPLE	185636-002	021	395322	11.18	695345	12.42	538426	16.97	234747	19.80
SAMPLE	185636-003	022	409719	11.18	718406	12.41	552007	16.97	245556	19.79

8260/6A SOX W ICAL

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

equence: 456098395 Instrument: MSVOA06 HP GCMS VOA 06 Begun: 09-MAR-2006
nalytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
01	fc901	X	IB			09-MAR-2006 07:55	1.0						1	
02	fc902	TUN	BFB			09-MAR-2006 08:30	1.0						2	
03	fc903	CCV	25PPB			09-MAR-2006 08:47	1.0			5000			3 4 1	
04	fc904	BS	QC330702	111122	Soil	09-MAR-2006 09:36	1.0			5000			5 6 7 1	
05	fc905	BSD	QC330703	111122	Soil	09-MAR-2006 10:10	1.0			5000			5 6 7 1	
06	fc906	X	IB			09-MAR-2006 10:45	1.0						1	
07	fc907	BLANK	QC330704	111122	Soil	09-MAR-2006 11:28	1.0		1	5000			1	
08	fc908	MSS	185333-015	111122	Soil	09-MAR-2006 12:03	5.0	1	1	5000			1	1:ACE=135.352
09	fc909	MS	QC330769	111122	Soil	09-MAR-2006 12:38	5.0		1	5000			5 6 7 1	1:ACE=169.810
10	fc910	MSD	QC330770	111122	Soil	09-MAR-2006 13:13	5.0			5000			5 6 7 1	1:ACE=167.878
11	fc911	TUN	BFB			09-MAR-2006 13:59	1.0						2	
12	fc912	X	IB			09-MAR-2006 14:32	1.0						1	
13	fc913	X	IB			09-MAR-2006 15:06	1.0						1	
14	fc914	X	CALIB IB			09-MAR-2006 15:42	1.0						1	
15	fc915	ICAL	0.25/0.5PPB			09-MAR-2006 16:16	1.0						4 3 8 1	
16	fc916	ICAL	0.5/1PPB			09-MAR-2006 16:52	1.0						4 3 8 1	
17	fc917	ICAL	2PPB			09-MAR-2006 17:27	1.0						4 3 8 1	
18	fc918	ICAL	5PPB			09-MAR-2006 18:02	1.0						4 3 8 1	
19	fc919	ICAL	10PPB			09-MAR-2006 18:37	1.0						4 3 8 1	
20	fc920	ICAL	20PPB			09-MAR-2006 19:12	1.0						4 3 8 1	
21	fc921	ICAL	50PPB			09-MAR-2006 19:47	1.0						4 3 8 1	
22	fc922	ICAL	75PPB			09-MAR-2006 20:21	1.0						4 3 8 1	
23	fc923	ICAL	100PPB			09-MAR-2006 20:56	1.0						4 3 8 1	
24	fc924	ICV	25PPB			09-MAR-2006 21:30	1.0			5000			6 1	
25	fc925	ICV	25PPB			09-MAR-2006 22:05	1.0			5000			5 7 1	
26	fc926	X	IB			09-MAR-2006 22:39	1.0						1	
27	fc927	X	IB			09-MAR-2006 23:14	1.0						1	
28	fc928	X	IB			09-MAR-2006 23:48	1.0						1	

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* ICAL - 2CCEVE fails 20% RSD
* ICV - OK, USACE - sec-butbenz↑, n-butbenz↑, Hexbenz↑

Stds used: 1=S2740 2=S2327 3=S2844 4=S2783 5=S2829 6=S2807 7=S2616 8=S2410

Analyst: [illegible] Date: 3/10/06

93/13/06

8260/6ADDA w ICAL

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 446110313 Instrument: MSVOA05 HP GCMS VOA 05 Begun: 17-MAR-2006

Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	ech01	TUN	BFB			17-MAR-2006 14:33	1.0					1	
002	ech02	X	IB			17-MAR-2006 16:06	1.0					2	
003	ech03	X	CALIB IB			17-MAR-2006 16:38	1.0					2	
004	ech04	ICAL	0.25/0.5PPB			17-MAR-2006 17:10	1.0					3 4 5 2	
005	ech05	ICAL	0.5/1PPB			17-MAR-2006 17:41	1.0					3 4 5 2	
006	ech06	ICAL	2PPB			17-MAR-2006 18:13	1.0					3 4 5 2	
007	ech07	ICAL	5PPB			17-MAR-2006 18:45	1.0					3 4 5 2	
008	ech08	ICAL	10PPB			17-MAR-2006 19:16	1.0					3 4 5 2	
009	ech09	ICAL	20PPB			17-MAR-2006 19:48	1.0					3 4 5 2	
010	ech10	ICAL	50PPB			17-MAR-2006 20:20	1.0					3 4 5 2	
011	ech11	ICAL	75PPB			17-MAR-2006 20:52	1.0					3 4 5 2	
012	ech12	ICAL	100PPB			17-MAR-2006 21:23	1.0					3 4 5 2	
013	ech13	ICV	25PPB			17-MAR-2006 21:55	1.0		5000			6 2 not used	
014	ech14	ICV	25PPB			17-MAR-2006 22:27	1.0	2	5000			7 8 2	
015	ech15	X	IB			17-MAR-2006 22:58	1.0					2	233
016	ech16	X	IB			17-MAR-2006 23:30	1.0					2	
017	ech17	X	IB			18-MAR-2006 00:02	1.0					2	

* ICAL - Cyclohex fails % RSD
  - high pt dropped for NAPH
  - 2 high pts dropped for Hexchlor
* ICV - cyclohex 2
  USALE - ~~BCLEVE~~↑, Hexchlor↑, Etoxb↓

Stds used: 1=S2327 2=S2707 3=S2783 4=S2844 5=S2410 6=S2953 7=S2902 8=S2616

Analyst: RW Date: 3/20/06

03/20/06

8260/6200B w ICV

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 446114231 Instrument: MSVOA05 HP GCMS VOA 05 Begun: 20-MAR-2006

Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	eck01	X	IB			20-MAR-2006 07:51	1.0						1	
002	eck02	TUN	BFB			20-MAR-2006 08:24	1.0						2	
003	eck03	CCV	20PPB			20-MAR-2006 08:57	1.0	1		5000			3 4 5 1	
004	eck04	BS	QC332117	111452	Water	20-MAR-2006 09:44	1.0	2	1	5000			6 7 8 1	
005	eck05	ICV	25PPB			20-MAR-2006 10:15	1.0	1		5000			6 7 8 1	

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Stds used: 1=S2707 2=S2327 3=S2783 4=S2844 5=S2410 6=S2953 7=S2902 8=S2616

Analyst: RBC Date: 3/20/06

03/20/06

8260/6A5DX w 10ml

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 486109916 Instrument: MSVOA09 HP GCMS VOA 09 Begun: 17-MAR-2006

Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	ich01	X	IB			17-MAR-2006 07:56	1.0					1	
002	ich02	TUN	BFB			17-MAR-2006 09:20	1.0					2	
003	ich03	X	LOW PT			17-MAR-2006 09:37	1.0					1	
004	ich04	X	LOW PT			17-MAR-2006 10:11	1.0					1	
005	ich05	X	IB			17-MAR-2006 11:17	1.0					1	
006	ich06	TUN	BFB			17-MAR-2006 12:08	1.0					2	
007	ich07	X	CALIB IB			17-MAR-2006 12:44	1.0					1	
008	ich08	ICAL	0.25/0.5PPB			17-MAR-2006 13:19	1.0					3 4 5 1	
009	ich09	ICAL	0.5/1PPB			17-MAR-2006 13:53	1.0					3 4 5 1	
010	ich10	ICAL	2PPB			17-MAR-2006 14:29	1.0					3 4 5 1	
011	ich11	ICAL	5PPB			17-MAR-2006 15:04	1.0					3 4 5 1	
012	ich12	ICAL	10PPB			17-MAR-2006 15:39	1.0					3 4 5 1	
013	ich13	ICAL	20PPB			17-MAR-2006 16:14	1.0					3 4 5 1	
014	ich14	ICAL	50PPB			17-MAR-2006 16:48	1.0					3 4 5 1	
015	ich15	ICAL	75PPB			17-MAR-2006 17:25	1.0					3 4 5 1	235
016	ich16	ICAL	100PPB			17-MAR-2006 17:59	1.0					3 4 5 1	
017	ich17	ICV	25PPB			17-MAR-2006 18:33	1.0		5000			6 1	
018	ich18	ICV	25PPB			17-MAR-2006 19:07	1.0	2	5000			7 8 1	
019	ich19	X	IB			17-MAR-2006 19:42	1.0					1	
020	ich20	X	IB			17-MAR-2006 20:17	1.0					1	
021	ich21	X	IB			17-MAR-2006 20:52	1.0					1	

* ICAL - OK
- high pt dropped for TBA
- 2 high pts dropped for Hexlbzn

* ICV - Hexlbzn ↑, Cisdchlorn ↓
usact - CS2 ↓

(k) no secondary ion for TBA in low pt

03/20/06

Stds used: 1=S2743 2=S2327 3=S2844 4=S2783 5=S2410 6=S2953 7=S2902 8=S2616

Analyst: [illegible] Date: 3/20/06

12, 17, 20-26

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 446115665 Instrument: MSVOA05 HP GCMS VOA 05 Begun: 21-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	ecl01	X	IB			21-MAR-2006 07:45	1.0						1	
002	ecl02	TUN	BFB			21-MAR-2006 08:12	1.0						2	
003	ecl03	CCV	30PPB			21-MAR-2006 08:28	1.0	2		5000			3 4 5 1	
004	ecl04	BS	QC332271	111491	Water	21-MAR-2006 09:11	1.0	2	1	5000			6 7 8 1	
005	ecl05	BSD	QC332272	111491	Water	21-MAR-2006 09:42	1.0	2	1	5000			6 7 8 1	
006	ecl06	X	IB			21-MAR-2006 10:14	1.0						1	
007	ecl07	BLANK	QC332273	111491	Water	21-MAR-2006 10:46	1.0	1	1	5000			1 12DCA↑ ND	
008	ecl08	SAMPLE	185586-012	111491	Water	21-MAR-2006 11:17	1.0		1	5000	A	<2	1 ND	
009	ecl09	SAMPLE	185586-017	111491	Water	21-MAR-2006 11:49	1.0		1	5000	C		1	
010	ecl10	SAMPLE	185567-002	111491	Water	21-MAR-2006 12:20	1.0	not used		5000	C	<2	1	
011	ecl11	SAMPLE	185586-020	111491	Water	21-MAR-2006 12:53	1.0		1	5000			1	
012	ecl12	SAMPLE	185586-021	111491	Water	21-MAR-2006 13:25	1.0		1	5000			1 assoc. ND	
013	ecl13	SAMPLE	185586-022	111491	Water	21-MAR-2006 13:56	1.0		1	5000			1	
014	ecl14	SAMPLE	185586-023	111491	Water	21-MAR-2006 14:28	1.0		1	5000			1 ND	
015	ecl15	SAMPLE	185586-024	111491	Water	21-MAR-2006 15:00	1.0		1	5000			1 assoc. ND	236
016	ecl16	SAMPLE	185586-025	111491	Water	21-MAR-2006 15:31	1.0		1	5000			1	
017	ecl17	SAMPLE	185586-026	111491	Water	21-MAR-2006 16:03	1.0		1	5000			1 ND	

① Seq stopped due to autosampler error

03/22/06

Stds used: 1=S2707 2=S2327 3=S2783 4=S2844 5=S2410 6=S2902 7=S2953 8=S2616

Analyst: BB Date: 3/22/06

1-9

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 456115675 Instrument: MSVOA06 HP GCMS VOA 06 Begun: 21-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	fcl01	X	IB			21-MAR-2006 07:55	1.0						1	
002	fcl02	TUN	BFB			21-MAR-2006 08:26	1.0						2	
003	fcl03	CCV	40PPB			21-MAR-2006 08:45	1.0	1		5000			3 4 5 1	
004	fcl04	BS	QC332274	111492	Water	21-MAR-2006 09:35	1.0	1	2	5000			6 7 8 1	
005	fcl05	BSD	QC332275	111492	Water	21-MAR-2006 10:11	1.0	1		5000			6 7 8 1	
006	fcl06	TUN	BFB			21-MAR-2006 10:42	1.0						2	
007	fcl07	CCV	40PPB			21-MAR-2006 11:02	1.0	2		5000			1 3 4 5	
008	fcl08	X	IB			21-MAR-2006 12:06	1.0						1	
009	fcl09	BLANK	QC332276	111492	Water	21-MAR-2006 12:41	1.0	1	1	5000			1	
010	fcl10	SAMPLE	185574-041	111492	Water	21-MAR-2006 13:16	1.0			5000	A	Lz	1	
011	fcl11	SAMPLE	185574-036	111492	Water	21-MAR-2006 13:51	1.0			5000			1	
012	fcl12	SAMPLE	185574-037	111492	Water	21-MAR-2006 14:27	1.0			5000			1	
013	fcl13	SAMPLE	185574-038	111492	Water	21-MAR-2006 15:02	1.0	1		5000			1 mu 2x	1:TCE=102.383
014	fcl14	SAMPLE	185574-039	111492	Water	21-MAR-2006 15:37	1.0			5000			1	
015	fcl15	SAMPLE	185574-040	111492	Water	21-MAR-2006 16:12	1.0			5000			1	
016	fcl16	SAMPLE	185586-001	111492	Water	21-MAR-2006 16:47	1.0			5000	C		1	
017	fcl17	SAMPLE	185586-002	111492	Water	21-MAR-2006 17:22	1.0			5000			1	
018	fcl18	SAMPLE	185586-003	111492	Water	21-MAR-2006 17:57	1.0			5000			1	
019	fcl19	SAMPLE	185586-004	111492	Water	21-MAR-2006 18:33	1.0			5000	B		1	
020	fcl20	SAMPLE	185586-005	111492	Water	21-MAR-2006 19:08	1.0			5000			1	
021	fcl21	SAMPLE	185586-006	111492	Water	21-MAR-2006 19:43	1.0			5000			1	
022	fcl22	SAMPLE	185558-024	111492	Water	21-MAR-2006 20:19	1.0			5000	D		1	
023	fcl23	SAMPLE	185558-020	111492	Water	21-MAR-2006 20:54	4.0			5000	E		1	
024	fcl24	SAMPLE	185586-007	111492	Water	21-MAR-2006 21:30	1.0			5000	B		1	
025	fcl25	SAMPLE	185586-008	111492	Water	21-MAR-2006 22:05	1.0			5000	C		1	
026	fcl26	SAMPLE	185586-009	111492	Water	21-MAR-2006 22:40	1.0			5000			1	
027	fcl27	X	IB			21-MAR-2006 23:16	1.0						1	
028	fcl28	X	IB			21-MAR-2006 23:51	1.0						1	
029	fcl29	X	IB			22-MAR-2006 00:26	1.0						1	

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Stds used: 1=S2740 2=S2327 3=S2844 4=S2783 5=S2410 6=S2902 7=S2953 8=S2616

AV 03/22/06

Analyst: BLC Date: 3/22/06

18, 19

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 486115658 Instrument: MSVOA09 HP GCMS VOA 09 Begun: 21-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	icl01	X	IB			21-MAR-2006 07:38	1.0						1	
002	icl02	TUN	BFB			21-MAR-2006 08:12	1.0						2	
003	icl03	CCV	30PPB			21-MAR-2006 08:31	1.0	1		5000			3 4 5 1	
004	icl04	BS	QC332277	111493	Water	21-MAR-2006 09:16	1.0	3		5000			6 7 8 1	
005	icl05	BSD	QC332278	111493	Water	21-MAR-2006 09:50	1.0	3	1	5000			6 7 8 1	
006	icl06	X	IB			21-MAR-2006 10:25	1.0						1	
007	icl07	BLANK	QC332279	111493	Water	21-MAR-2006 11:00	1.0	1	1	5000			1	
008	icl08	SAMPLE	185586-018	111493	Water	21-MAR-2006 11:50	1.0	1		5000	C	LZ	1	
009	icl09	SAMPLE	185586-019	111493	Water	21-MAR-2006 12:25	1.0			5000			1	
010	icl10	SAMPLE	185606-008	111493	Water	21-MAR-2006 12:59	200.0			5000	C		1	
011	icl11	SAMPLE	185606-010	111493	Water	21-MAR-2006 13:34	125.0			5000			1	
012	icl12	SAMPLE	185606-003	111493	Water	21-MAR-2006 14:08	2000			5000			1	
013	icl13	SAMPLE	185606-006	111493	Water	21-MAR-2006 14:43	400.0			5000			1	
014	icl14	SAMPLE	185606-002	111493	Water	21-MAR-2006 15:17	2000			5000			1	
015	icl15	SAMPLE	185606-004	111493	Water	21-MAR-2006 15:51	125.0			5000			1	238
016	icl16	SAMPLE	185606-009	111493	Water	21-MAR-2006 16:26	142.9			5000			1	
017	icl17	SAMPLE	185606-007	111493	Water	21-MAR-2006 17:01	333.3			5000			1	
018	icl18	SAMPLE	185606-012	111493	Water	21-MAR-2006 17:39	10.0			5000			1	
019	icl19	SAMPLE	185606-001	111493	Water	21-MAR-2006 18:13	6250			5000	E		1	
020	icl20	SAMPLE	185636-001	111493	Water	21-MAR-2006 18:48	125.0			5000	B		1	
021	icl21	SAMPLE	185636-002	111493	Water	21-MAR-2006 19:22	71.43			5000			1	
022	icl22	SAMPLE	185636-003	111493	Water	21-MAR-2006 19:57	250.0			5000			1	1:ACE=247.004 nt
023	icl23	X	IB			21-MAR-2006 20:31	1.0						1	
024	icl24	X	IB			21-MAR-2006 21:05	1.0						1	
025	icl25	X	IB			21-MAR-2006 21:39	1.0						1	

Stds used: 1=S2743 2=S2327 3=S2783 4=S2844 5=S2410 6=S2902 7=S2953 8=S2616

Analyst: [signature] Date: 3/22/06

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185586 8260 Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CLM	CCE	BRE	LEA	CCE	ATE	DCL	TLN	DTS	MBE	CE1	MA2	VC1	DA1	DK1	MC1	DE3	TM1	TL1	CL1	DC2	BZ1	TC1	DA2	BM1	MK1	DE2	BP1	DM1	TP1	DA2	TO2	HI1	PC1	PZ1	DC2	CX1	EO2	XE1	XC1	XB1	TL1	SB1	TZ1	PY1	DM1	DO1	DX1	BE1	BM3	BF1	BA2	BM1	RE4	RF1
185586-001	MSVOA06	03/21/06 16:47	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185586-002	MSVOA06	03/21/06 17:22	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185586-003	MSVOA06	03/21/06 17:57	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185586-004	MSVOA06	03/21/06 18:33	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185586-005	MSVOA06	03/21/06 19:08	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185586-006	MSVOA06	03/21/06 19:43	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185586-007	MSVOA06	03/21/06 21:30	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185586-008	MSVOA06	03/21/06 22:05	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185586-009	MSVOA06	03/21/06 22:40	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185586-012	MSVOA05	03/21/06 11:17	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185586-017	MSVOA05	03/21/06 11:49	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185586-018	MSVOA09	03/21/06 11:50	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185586-019	MSVOA09	03/21/06 12:25	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185586-020	MSVOA05	03/21/06 12:53	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185586-021	MSVOA05	03/21/06 13:25	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185586-022	MSVOA05	03/21/06 13:56	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185586-023	MSVOA05	03/21/06 14:28	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185586-024	MSVOA05	03/21/06 15:00	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185586-025	MSVOA05	03/21/06 15:31	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185586-026	MSVOA05	03/21/06 16:03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC332271	MSVOA05	03/21/06 09:11	1.0						+															+	+					+						+																			+	+	+	+
QC332272	MSVOA05	03/21/06 09:42	1.0						+															+	+					+						+																			+	+	+	+
QC332273	MSVOA05	03/21/06 10:46	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185586 8260 Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CLM E	VCM	BRE	CLE A	ACE	DCE	MTC	MDE	DCL 1	VCL N	DTC S	MBT	DCE B	DCA 1	DCA 2	MKE	DCE L	TCL 3	TCA M	TCL 1	CCL 1	DCA	BCL 2	TCA	DEZ	DCA	CDP A	BDM	DIM	DCK	BCL	DPZ	DCM	TCP	HCL 1	PCE	DCP	CCA	CCL 2	XCL 2	OCB	ECL	XCB	XBZ	XCB	XLZ	XLB	XLR	TOY	SYM	TBE	PCM	DCA	DCF	DCM	BCL 3	BCZ	BCL 2	BCR 4
QC332274	MSVOA06	03/21/06 09:35	1.0	+	+	+	+		+	+			+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+																					
QC332275	MSVOA06	03/21/06 10:11	1.0	+	+	+	+		+	+			+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+																					
QC332276	MSVOA06	03/21/06 12:41	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC332277	MSVOA09	03/21/06 09:16	1.0						+																	+	+					+						+																									+	+	+	+
QC332278	MSVOA09	03/21/06 09:50	1.0						+																	+	+					+						+																									+	+	+	+
QC332279	MSVOA09	03/21/06 11:00	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 3/21/02
PREPPED BY.

111492

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	185558 -20		E	<2			6	4x SVM ↑	Presidio
2	-24		D					1x SVM ↑	Date 3-27
3	185574 -36		A					1x	
4	-37								
5	-38								
6	-39								
7	-40								
8	-41							1x	
9	185586 -1		C						
10	-2								
11	-3								
12	-4		B						
13	-5								
14	-6								
15	-7								
16	-8		C						
17	-9								
18									
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PREPFORM.XLS

7/21/98

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 3/2/96

PREPPED BY.

11/291

WATER

	SAMPLE NUM	AMT o/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	185636 -6		B	<2			5	200x	
2	-7			8				100x	
3	-8			<2				625x	
4	-9			<2				EB	
5	185586 -12		A					TB	
6	-17		C					1x	
7	-18			<2			9		
8	-19								
9	-20			<2			5		
0	-21								
1	-22								
2	-23								
3	-24								
14	-25								
15	-26								
16									
17									
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PREPFORM.

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water
As of 04/18/06

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
1,1-Dichloroethene	ug/L	0.27	0.22	0.062	0.17	0.10	0.085	0.089
Benzene	ug/L	0.11	0.041	0.060	0.061	0.12	0.044	0.027
Trichloroethene	ug/L	0.21	0.076	0.18	0.17	0.11	0.072	0.087
Toluene	ug/L	0.083	0.083	0.12	0.092	0.062	0.063	0.053
Chlorobenzene	ug/L	0.10	0.090	0.11	0.16	0.16	0.079	0.050
Freon 12	ug/L	0.18	0.099	0.22	0.062	0.15	0.24	0.18
Chloromethane	ug/L	0.12	0.16	0.12	0.18	0.13	0.16	0.089
Vinyl Chloride	ug/L	0.19	0.23	0.10	0.066	0.10	0.17	0.16
Bromomethane	ug/L	0.29	0.30	0.31	0.13	0.31	0.23	0.20
Chloroethane	ug/L	0.33	0.33	0.15	0.16	0.13	0.16	0.12
Trichlorofluoromethane	ug/L	0.16	0.057	0.17	0.10	0.080	0.089	0.10
Acetone	ug/L	0.39	0.87	0.21	0.85	0.16	0.26	0.49
Freon 113	ug/L	0.062	0.12	0.13	0.25	0.071	0.20	0.091
Methylene Chloride	ug/L	0.15	0.21	0.11	0.12	0.16	0.099	0.22
MTBE	ug/L	0.069	0.074	0.065	0.045	0.040	0.051	0.052
Carbon Disulfide	ug/L	0.039	0.031	0.086	0.076	0.11	0.058	0.037
trans-1,2-Dichloroethene	ug/L	0.37	0.13	0.18	0.051	0.064	0.11	0.093
Vinyl Acetate	ug/L	0.076	0.36	0.084	0.99	0.40	0.080	0.10
1,1-Dichloroethane	ug/L	0.088	0.061	0.048	0.090	0.11	0.063	0.063
2-Butanone	ug/L	0.16	0.17	0.20	0.50	0.099	0.17	0.26
cis-1,2-Dichloroethene	ug/L	0.26	0.18	0.083	0.12	0.042	0.096	0.11
2,2-Dichloropropane	ug/L	0.093	0.17	0.077	0.12	0.066	0.084	0.083
Chloroform	ug/L	0.082	0.055	0.086	0.060	0.11	0.030	0.044
Bromochloromethane	ug/L	0.091	0.090	0.10	0.18	0.11	0.20	0.15
1,1,1-Trichloroethane	ug/L	0.084	0.066	0.14	0.11	0.061	0.045	0.041
1,1-Dichloropropene	ug/L	0.12	0.11	0.081	0.16	0.16	0.052	0.055
Carbon Tetrachloride	ug/L	0.089	0.11	0.098	0.17	0.15	0.095	0.056
1,2-Dichloroethane	ug/L	0.090	0.088	0.099	0.096	0.12	0.058	0.056
1,2-Dichloropropane	ug/L	0.093	0.060	0.079	0.071	0.14	0.072	0.12
Bromodichloromethane	ug/L	0.086	0.039	0.067	0.074	0.10	0.081	0.069
Dibromomethane	ug/L	0.16	0.061	0.092	0.16	0.11	0.065	0.13
4-Methyl-2-Pentanone	ug/L	0.044	0.076	0.057	0.20	0.13	0.092	0.25
cis-1,3-Dichloropropene	ug/L	0.068	0.065	0.056	0.20	0.16	0.042	0.044
trans-1,3-Dichloropropene	ug/L	0.074	0.074	0.044	0.073	0.14	0.071	0.060
1,1,2-Trichloroethane	ug/L	0.12	0.12	0.14	0.19	0.15	0.094	0.058
2-Hexanone	ug/L	0.043	0.31	0.047	0.34	0.11	0.13	0.14
1,3-Dichloropropane	ug/L	0.064	0.067	0.061	0.063	0.10	0.045	0.068
Tetrachloroethene	ug/L	0.13	0.14	0.12	0.22	0.14	0.090	0.093
Dibromochloromethane	ug/L	0.099	0.054	0.10	0.085	0.056	0.077	0.063
1,2-Dibromoethane	ug/L	0.16	0.061	0.10	0.073	0.11	0.053	0.070
2-Chloroethylvinylether	ug/L	0.093	0.18	0.24	0.17	0.14	0.20	0.23
1,1,1,2-Tetrachloroethane	ug/L	0.11	0.087	0.10	0.11	0.14	0.046	0.088
Ethylbenzene	ug/L	0.059	0.076	0.075	0.17	0.041	0.060	0.11
m,p-Xylenes	ug/L	0.24	0.22	0.14	0.27	0.17	0.13	0.20
o-Xylene	ug/L	0.10	0.058	0.092	0.11	0.16	0.11	0.13

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water
As of 04/18/06

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
Styrene	ug/L	0.12	0.092	0.098	0.085	0.16	0.075	0.061
Bromoform	ug/L	0.12	0.088	0.11	0.18	0.094	0.079	0.15
Isopropylbenzene	ug/L	0.12	0.059	0.090	0.18	0.059	0.053	0.10
1,1,2,2-Tetrachloroethane	ug/L	0.13	0.096	0.086	0.047	0.13	0.070	0.055
1,2,3-Trichloropropane	ug/L	0.31	0.28	0.074	0.11	0.17	0.20	0.16
Propylbenzene	ug/L	0.075	0.10	0.063	0.21	0.023	0.055	0.11
Bromobenzene	ug/L	0.12	0.12	0.10	0.19	0.12	0.073	0.085
1,3,5-Trimethylbenzene	ug/L	0.060	0.095	0.047	0.14	0.057	0.077	0.13
2-Chlorotoluene	ug/L	0.12	0.11	0.068	0.15	0.025	0.047	0.12
4-Chlorotoluene	ug/L	0.079	0.069	0.043	0.14	0.037	0.032	0.069
tert-Butylbenzene	ug/L	0.11	0.15	0.075	0.19	0.038	0.042	0.079
1,2,4-Trimethylbenzene	ug/L	0.091	0.088	0.066	0.12	0.069	0.077	0.10
sec-Butylbenzene	ug/L	0.11	0.12	0.062	0.17	0.088	0.041	0.076
para-Isopropyl Toluene	ug/L	0.058	0.12	0.12	0.14	0.056	0.055	0.045
1,3-Dichlorobenzene	ug/L	0.080	0.16	0.097	0.18	0.060	0.071	0.10
1,4-Dichlorobenzene	ug/L	0.068	0.14	0.095	0.18	0.038	0.092	0.17
n-Butylbenzene	ug/L	0.12	0.15	0.11	0.18	0.21	0.048	0.12
1,2-Dichlorobenzene	ug/L	0.072	0.14	0.080	0.14	0.16	0.068	0.061
1,2-Dibromo-3-Chloropropane	ug/L	0.39	0.25	0.21	0.22	0.13	0.26	0.098
1,2,4-Trichlorobenzene	ug/L	0.12	0.17	0.14	0.16	0.10	0.16	0.17
Hexachlorobutadiene	ug/L	0.19	0.19	0.29	0.21	0.11	0.24	0.25
Naphthalene	ug/L	0.12	0.13	0.060	0.10	0.091	0.20	0.16
1,2,3-Trichlorobenzene	ug/L	0.063	0.17	0.10	0.20	0.095	0.18	0.29
tert-Butyl Alcohol (TBA)	ug/L	1.3	1.6	0.83	2.5	1.3	0.94	1.3
Isopropyl Ether (DIPE)	ug/L	0.068	0.070	0.063	0.027	0.030	0.053	0.027
Ethyl tert-Butyl Ether (ETBE)	ug/L	0.089	0.045	0.024	0.20	0.033	0.075	0.034
Methyl tert-Amyl Ether (TAME)	ug/L	0.094	0.13	0.055	0.054	0.048	0.032	0.057
Isopropanol	ug/L	4.6	2.7	1.6	6.6	1.5	1.4	1.1
Ethanol	ug/L	55	22	23	50	11	7.9	36
Hexane	ug/L				0.33		0.15	
Cyclohexanone	ug/L	3.8	2.4	0.21	1.6	1.6	2.5	
Tetrahydrofuran	ug/L	0.64	1.2	1.1	0.79	1.4	1.7	3.5
Tetramethyl THF	ug/L	0.067	0.061	0.062	0.20	0.10	0.055	0.078
Gasoline C6-C10	ug/L		15		4.8	15	8.5	
Gasoline C7-C12	ug/L		18		2.4	13	7.7	
Dibromofluoromethane	ug/L	3.1	2.9	1.8	2.4	1.5		3.2
1,2-Dichloroethane-d4	ug/L	3.0	3.9		2.4	1.2		3.0
Toluene-d8	ug/L	1.7	3.8		1.1	1.0		1.1
Bromofluorobenzene	ug/L	2.5	2.6		1.2	1.2		1.5
Trifluorotoluene	ug/L	0.12	0.43	0.065	0.21	0.13		0.14

SEMI-VOLATILE ORGANIC COMPOUNDS

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8270C
Field ID:	DAEGW07	Batch#:	111514
Lab ID:	185586-009	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Prepared:	03/21/06
Diln Fac:	1.000	Analyzed:	03/23/06

Analyte	Result	RL	MDL
Phenol	ND	9.4	
bis(2-Chloroethyl)ether	ND	9.4	
2-Chlorophenol	ND	9.4	
1,3-Dichlorobenzene	ND	9.4	
1,4-Dichlorobenzene	ND	9.4	
Benzyl alcohol	ND	9.4	
1,2-Dichlorobenzene	ND	9.4	
2-Methylphenol	ND	9.4	
bis(2-Chloroisopropyl) ether	ND	9.4	
4-Methylphenol	ND	9.4	
N-Nitroso-di-n-propylamine	ND	9.4	
Hexachloroethane	ND	9.4	
Nitrobenzene	ND	9.4	
Isophorone	ND	9.4	
2-Nitrophenol	ND	19	1.1
2,4-Dimethylphenol	ND	9.4	
Benzoic acid	ND	47	
bis(2-Chloroethoxy)methane	ND	9.4	
2,4-Dichlorophenol	ND	9.4	
1,2,4-Trichlorobenzene	ND	9.4	
Naphthalene	ND	9.4	
4-Chloroaniline	ND	9.4	
Hexachlorobutadiene	ND	9.4	
4-Chloro-3-methylphenol	ND	9.4	
2-Methylnaphthalene	ND	9.4	
Hexachlorocyclopentadiene	ND	47	
2,4,6-Trichlorophenol	ND	9.4	
2,4,5-Trichlorophenol	ND	9.4	
2-Chloronaphthalene	ND	9.4	
2-Nitroaniline	ND	19	
Dimethylphthalate	ND	9.4	
Acenaphthylene	ND	9.4	
2,6-Dinitrotoluene	ND	9.4	
3-Nitroaniline	ND	19	
Acenaphthene	ND	9.4	
2,4-Dinitrophenol	ND	47	
4-Nitrophenol	ND	19	
Dibenzofuran	ND	9.4	
2,4-Dinitrotoluene	ND	9.4	
Diethylphthalate	ND	9.4	
Fluorene	ND	9.4	
4-Chlorophenyl-phenylether	ND	9.4	
4-Nitroaniline	ND	19	
4,6-Dinitro-2-methylphenol	ND	47	
N-Nitrosodiphenylamine	ND	9.4	
4-Bromophenyl-phenylether	ND	9.4	
Hexachlorobenzene	ND	9.4	
Pentachlorophenol	ND	19	
Phenanthrene	ND	9.4	
Anthracene	ND	9.4	
Di-n-butylphthalate	ND	9.4	
Fluoranthene	ND	9.4	
Pyrene	ND	9.4	

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8270C
Field ID:	DAEGW07	Batch#:	111514
Lab ID:	185586-009	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Prepared:	03/21/06
Diln Fac:	1.000	Analyzed:	03/23/06

Analyte	Result	RL	MDL
Butylbenzylphthalate	ND	9.4	
3,3'-Dichlorobenzidine	ND	19	0.51
Benzo(a)anthracene	ND	9.4	
Chrysene	ND	9.4	
bis(2-Ethylhexyl)phthalate	ND	9.4	
Di-n-octylphthalate	ND	9.4	
Benzo(b)fluoranthene	ND	9.4	
Benzo(k)fluoranthene	ND	9.4	
Benzo(a)pyrene	ND	9.4	
Indeno(1,2,3-cd)pyrene	ND	9.4	
Dibenz(a,h)anthracene	ND	9.4	
Benzo(g,h,i)perylene	ND	9.4	

Surrogate	%REC	Limits
2-Fluorophenol	66	21-100
Phenol-d5	63	10-100
2,4,6-Tribromophenol	116	10-123
Nitrobenzene-d5	75	36-114
2-Fluorobiphenyl	87	43-116
Terphenyl-d14	71	33-141

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332372	Batch#:	111514
Matrix:	Water	Prepared:	03/21/06
Units:	ug/L	Analyzed:	03/22/06

Analyte	Result	RL	MDL
Phenol	ND	10	
bis(2-Chloroethyl)ether	ND	10	
2-Chlorophenol	ND	10	
1,3-Dichlorobenzene	ND	10	
1,4-Dichlorobenzene	ND	10	
Benzyl alcohol	ND	10	
1,2-Dichlorobenzene	ND	10	
2-Methylphenol	ND	10	
bis(2-Chloroisopropyl) ether	ND	10	
4-Methylphenol	ND	10	
N-Nitroso-di-n-propylamine	ND	10	
Hexachloroethane	ND	10	
Nitrobenzene	ND	10	
Isophorone	ND	10	
2-Nitrophenol	ND	20	1.1
2,4-Dimethylphenol	ND	10	
Benzoic acid	ND	50	
bis(2-Chloroethoxy)methane	ND	10	
2,4-Dichlorophenol	ND	10	
1,2,4-Trichlorobenzene	ND	10	
Naphthalene	ND	10	
4-Chloroaniline	ND	10	
Hexachlorobutadiene	ND	10	
4-Chloro-3-methylphenol	ND	10	
2-Methylnaphthalene	ND	10	
Hexachlorocyclopentadiene	ND	50	
2,4,6-Trichlorophenol	ND	10	
2,4,5-Trichlorophenol	ND	10	
2-Chloronaphthalene	ND	10	
2-Nitroaniline	ND	20	
Dimethylphthalate	ND	10	
Acenaphthylene	ND	10	
2,6-Dinitrotoluene	ND	10	
3-Nitroaniline	ND	20	
Acenaphthene	ND	10	
2,4-Dinitrophenol	ND	50	
4-Nitrophenol	ND	20	
Dibenzofuran	ND	10	
2,4-Dinitrotoluene	ND	10	
Diethylphthalate	ND	10	
Fluorene	ND	10	
4-Chlorophenyl-phenylether	ND	10	
4-Nitroaniline	ND	20	
4,6-Dinitro-2-methylphenol	ND	50	
N-Nitrosodiphenylamine	ND	10	
4-Bromophenyl-phenylether	ND	10	
Hexachlorobenzene	ND	10	
Pentachlorophenol	ND	20	
Phenanthrene	ND	10	
Anthracene	ND	10	
Di-n-butylphthalate	ND	10	
Fluoranthene	ND	10	
Pyrene	ND	10	

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332372	Batch#:	111514
Matrix:	Water	Prepared:	03/21/06
Units:	ug/L	Analyzed:	03/22/06

Analyte	Result	RL	MDL
Butylbenzylphthalate	ND	10	
3,3'-Dichlorobenzidine	ND	20	0.54
Benzo(a)anthracene	ND	10	
Chrysene	ND	10	
bis(2-Ethylhexyl)phthalate	ND	10	
Di-n-octylphthalate	ND	10	
Benzo(b)fluoranthene	ND	10	
Benzo(k)fluoranthene	ND	10	
Benzo(a)pyrene	ND	10	
Indeno(1,2,3-cd)pyrene	ND	10	
Dibenz(a,h)anthracene	ND	10	
Benzo(g,h,i)perylene	ND	10	

Surrogate	%REC	Limits
2-Fluorophenol	69	21-100
Phenol-d5	62	10-100
2,4,6-Tribromophenol	75	10-123
Nitrobenzene-d5	66	36-114
2-Fluorobiphenyl	79	43-116
Terphenyl-d14	84	33-141

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8270C
Matrix:	Water	Batch#:	111514
Units:	ug/L	Prepared:	03/21/06
Diln Fac:	1.000	Analyzed:	03/23/06

Type: BS Lab ID: QC332373

Analyte	Spiked	Result	%REC	Limits
Phenol	100.0	74.57	75	17-100
2-Chlorophenol	100.0	80.10	80	46-114
1,4-Dichlorobenzene	50.00	31.44	63	38-111
N-Nitroso-di-n-propylamine	50.00	37.47	75	42-108
1,2,4-Trichlorobenzene	50.00	36.96	74	39-110
4-Chloro-3-methylphenol	100.0	81.65	82	54-116
Acenaphthene	50.00	41.92	84	49-111
4-Nitrophenol	100.0	87.53	88	10-100
2,4-Dinitrotoluene	50.00	42.43	85	48-118
Pentachlorophenol	100.0	90.85	91	13-153
Pyrene	50.00	35.20	70	57-150

Surrogate	%REC	Limits
2-Fluorophenol	78	21-100
Phenol-d5	76	10-100
2,4,6-Tribromophenol	89	10-123
Nitrobenzene-d5	81	36-114
2-Fluorobiphenyl	90	43-116
Terphenyl-d14	71	33-141

Type: BSD Lab ID: QC332374

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	100.0	72.89	73	17-100	2	29
2-Chlorophenol	100.0	79.11	79	46-114	1	28
1,4-Dichlorobenzene	50.00	32.94	66	38-111	5	28
N-Nitroso-di-n-propylamine	50.00	37.63	75	42-108	0	18
1,2,4-Trichlorobenzene	50.00	36.59	73	39-110	1	25
4-Chloro-3-methylphenol	100.0	77.81	78	54-116	5	25
Acenaphthene	50.00	40.67	81	49-111	3	16
4-Nitrophenol	100.0	87.59	88	10-100	0	50
2,4-Dinitrotoluene	50.00	40.94	82	48-118	4	15
Pentachlorophenol	100.0	91.87	92	13-153	1	45
Pyrene	50.00	33.54	67	57-150	5	24

Surrogate	%REC	Limits
2-Fluorophenol	79	21-100
Phenol-d5	74	10-100
2,4,6-Tribromophenol	86	10-123
Nitrobenzene-d5	78	36-114
2-Fluorobiphenyl	86	43-116
Terphenyl-d14	68	33-141

RPD= Relative Percent Difference

CURTIS & TOMPKINS DFTPP TUNE FOR 185586 MSBNA Water
EPA 8270C

Inst : MSBNA04 Run Name: NP NL IDF : 1.0
Seqnum : 536108715002 File : wcg02 Time : 16-MAR-2006 12:43

Standards: S1637

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30.00% - 60.00% of mass 198	75453	51.29	
68	< 2.00% of mass 69	0	0	
69		91866		
70	< 2.00% of mass 69	495	0.54	
127	40.00% - 60.00% of mass 198	71234	48.42	
197	< 1.00% of mass 198	0	0	
199	5.00% - 9.00% of mass 198	9588	6.52	
275	10.00% - 30.00% of mass 198	35194	23.92	
365	> 1.00% of mass 198	4388	2.98	
441	Present, < mass 443	20073	80.39	
442	> 40.00% and < 100.00% of mass 198	127184	86.46	
443	17.00% - 23.00% of mass 442	24970	19.63	

CURTIS & TOMPKINS DFTPP TUNE FOR 185586 MSBNA Water
EPA 8270C

Inst : MSBNA04 Run Name: NP NL IDF : 1.0
Seqnum : 536110111001 File : wch01 Time : 17-MAR-2006 11:11

Standards: S1637

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30.00% - 60.00% of mass 198	70136	40.66	
68	< 2.00% of mass 69	0	0	
69		94928		
70	< 2.00% of mass 69	221	0.23	
127	40.00% - 60.00% of mass 198	80304	46.56	
197	< 1.00% of mass 198	0	0	
199	5.00% - 9.00% of mass 198	11725	6.80	
275	10.00% - 30.00% of mass 198	43304	25.11	
365	> 1.00% of mass 198	4998	2.90	
441	Present, < mass 443	23456	78.50	
442	> 40.00% and < 100.00% of mass 198	150208	87.09	
443	17.00% - 23.00% of mass 442	29880	19.89	

CURTIS & TOMPKINS DFTPP TUNE FOR 185586 MSBNA Water
EPA 8270C

Inst : MSBNA04 Run Name: NP NL IDF : 1.0
Seqnum : 536118717001 File : wcn01 Time : 23-MAR-2006 10:37

Standards: S1637

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30.00% - 60.00% of mass 198	81242	44.99	
68	< 2.00% of mass 69	0	0	
69		108549		
70	< 2.00% of mass 69	335	0.31	
127	40.00% - 60.00% of mass 198	87560	48.49	
197	< 1.00% of mass 198	0	0	
199	5.00% - 9.00% of mass 198	12084	6.69	
275	10.00% - 30.00% of mass 198	41448	22.95	
365	> 1.00% of mass 198	4896	2.71	
441	Present, < mass 443	22010	76.99	
442	> 40.00% and < 100.00% of mass 198	140045	77.55	
443	17.00% - 23.00% of mass 442	28589	20.41	

CURTIS & TOMPKINS DFTPP TUNE FOR 185586 MSBNA Water
EPA 8270C

Inst : MSBNA05 Run Name: NP NL IDF : 1.0
Seqnum : 546098496013 File : xc913 Time : 09-MAR-2006 18:21

Standards: S1637

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30.00% - 60.00% of mass 198	14592	50.61	
68	< 2.00% of mass 69	0	0	
69		14795		
70	< 2.00% of mass 69	0	0	
127	40.00% - 60.00% of mass 198	15504	53.77	
197	< 1.00% of mass 198	0	0	
199	5.00% - 9.00% of mass 198	1996	6.92	
275	10.00% - 30.00% of mass 198	7624	26.44	
365	> 1.00% of mass 198	1262	4.38	
441	Present, < mass 443	2698	78.82	
442	> 40.00% and < 100.00% of mass 198	17448	60.52	
443	17.00% - 23.00% of mass 442	3423	19.62	

CURTIS & TOMPKINS DFTPP TUNE FOR 185586 MSBNA Water
EPA 8270C

Inst : MSBNA05 Run Name: NP NL IDF : 1.0
Seqnum : 546100373001 File : xca01 Time : 10-MAR-2006 16:53

Standards: S1637

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30.00% - 60.00% of mass 198	17288	50.85	
68	< 2.00% of mass 69	0	0	
69		17512		
70	< 2.00% of mass 69	0	0	
127	40.00% - 60.00% of mass 198	18480	54.35	
197	< 1.00% of mass 198	0	0	
199	5.00% - 9.00% of mass 198	2436	7.16	
275	10.00% - 30.00% of mass 198	8585	25.25	
365	> 1.00% of mass 198	1541	4.53	
441	Present, < mass 443	3236	78.35	
442	> 40.00% and < 100.00% of mass 198	21496	63.22	
443	17.00% - 23.00% of mass 442	4130	19.21	

CURTIS & TOMPKINS DFTPP TUNE FOR 185586 MSBNA Water
EPA 8270C

Inst : MSBNA05 Run Name: NP NL IDF : 1.0
Seqnum : 546117603003 File : xcm03 Time : 22-MAR-2006 17:22

Standards: S1637

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30.00% - 60.00% of mass 198	12532	59.28	
68	< 2.00% of mass 69	0	0	
69		11439		
70	< 2.00% of mass 69	0	0	
127	40.00% - 60.00% of mass 198	11609	54.91	
197	< 1.00% of mass 198	0	0	
199	5.00% - 9.00% of mass 198	1635	7.73	
275	10.00% - 30.00% of mass 198	6170	29.18	
365	> 1.00% of mass 198	1184	5.60	
441	Present, < mass 443	3157	83.61	
442	> 40.00% and < 100.00% of mass 198	19546	92.46	
443	17.00% - 23.00% of mass 442	3776	19.32	

CURTIS & TOMPKINS DFTPP TUNE FOR 185586 MSBNA Water
EPA 8270C

Inst : MSBNA05 Run Name: NP NL IDF : 1.0
Seqnum : 546118778001 File : xcn01 Time : 23-MAR-2006 11:38

Standards: S1637

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30.00% - 60.00% of mass 198	13476	55.07	
68	< 2.00% of mass 69	130	1.05	
69		12416		
70	< 2.00% of mass 69	0	0	
127	40.00% - 60.00% of mass 198	12801	52.31	
197	< 1.00% of mass 198	0	0	
199	5.00% - 9.00% of mass 198	1747	7.14	
275	10.00% - 30.00% of mass 198	6779	27.70	
365	> 1.00% of mass 198	1275	5.21	
441	Present, < mass 443	2969	76.19	
442	> 40.00% and < 100.00% of mass 198	19625	80.19	
443	17.00% - 23.00% of mass 442	3897	19.86	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185586 MSBNA Water: EPA 8270C

Inst : MSBNA04
Calnum : 536108715001
Units : ng

Name : 6PTBNA4
Date : 16-MAR-2006 13:15
X Axis : R

Reviewer: AMK
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	wcg03	536108715003	2ug/mL	16-MAR-2006 13:15	S2578
L2	wcg04	536108715004	5ug/mL	16-MAR-2006 14:00	S2579
L3	wcg05	536108715005	10ug/mL	16-MAR-2006 14:45	S2580
L4	wcg06	536108715006	20ug/mL	16-MAR-2006 15:30	S2581
L5	wcg07	536108715007	50ug/mL	16-MAR-2006 16:15	S2582
L6	wcg08	536108715008	80ug/mL	16-MAR-2006 16:59	S2583
L7	wcg09	536108715009	100ug/mL	16-MAR-2006 17:43	S2584
L8	wcg10	536108715010	120ug/mL	16-MAR-2006 18:28	S2585
L9	wcg11	536108715011	160ug/mL	16-MAR-2006 19:14	S2586

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Phenol			2.0605	2.0121	1.9775	1.8688	1.7902	1.7138	1.6530	AVRG		0.53534		1.8680	8	15	0.050	0.99	
bis(2-Chloroethyl)ether		1.4659	1.4626	1.3890	1.3322	1.2028	1.1148	1.0153		AVRG		0.77929		1.2832	14	15	0.050	0.99	
2-Chlorophenol			1.3625	1.4508	1.4423	1.3943	1.3912	1.3864	1.3818	AVRG		0.71361		1.4013	2	15	0.050	0.99	
1,3-Dichlorobenzene			1.6760	1.6523	1.6076	1.5105	1.4794	1.4185	1.3670	AVRG		0.65352		1.5302	8	15	0.050	0.99	
1,4-Dichlorobenzene			1.5747	1.5441	1.5382	1.4575	1.4068	1.3295	1.2653	AVRG		0.69196		1.4452	8	15	0.050	0.99	
Benzyl alcohol			1.0650	1.1388	1.1548	1.1156	1.1285	1.1285	1.1169	AVRG		0.89193		1.1212	3	15	0.050	0.99	
1,2-Dichlorobenzene			1.5784	1.5997	1.4853	1.4258	1.3915	1.3115	1.2329	AVRG		0.69824		1.4322	9	15	0.050	0.99	
2-Methylphenol			1.2808	1.3289	1.2523	1.1982	1.1817	1.1172	1.0858	AVRG		0.82891		1.2064	7	15	0.050	0.99	
bis(2-Chloroisopropyl) ether			3.0520	3.0424	2.7667	2.4484	2.1531	1.9481	1.7566	QUAD	8.53343	0.04660	0.001761	2.4525	0.997	15	0.050	0.99	
4-Methylphenol			1.9500	2.0277	1.9665	1.9333m	1.9345	1.9353	1.8982	AVRG		0.51299		1.9494	2	15	0.050	0.99	
N-Nitroso-di-n-propylamine			1.2422	1.2492	1.1434	1.0702	1.0323	0.9994	0.9695	AVRG		0.90835		1.1009	10	15	0.050	0.99	
Hexachloroethane			0.7029	0.7171	0.6719	0.6404	0.6265	0.5825	0.5580	AVRG		1.55580		0.6428	9	15	0.050	0.99	
Nitrobenzene			0.4749	0.4692	0.4363	0.4109	0.3980	0.3720	0.3445	AVRG		2.40899		0.4151	12	15	0.050	0.99	
Isophorone			1.0816	1.0798	1.0084	0.9825m	1.0120	0.9274m	0.8300	AVRG		1.01131		0.9888	9	15	0.050	0.99	
2-Nitrophenol			0.2109	0.2214	0.2210	0.2149	0.2181	0.2043	0.1836	AVRG		4.74812		0.2106	6	15	0.050	0.99	
2,4-Dimethylphenol			0.3521	0.3513	0.3396	0.3088	0.3173	0.2965	0.2803	AVRG		3.11691		0.3208	9	15	0.050	0.99	
bis(2-Chloroethoxy)methane			0.6334	0.6099	0.5658	0.5080	0.4919	0.4382	0.4116	QUAD	2.76439	1.11004	0.019528	0.5227	0.997	15	0.050	0.99	
Benzoic acid					0.0966	0.1613	0.2058	0.2110m	0.2193m	LINR	31.5311	3.56927		0.1788	0.993	15	0.050	0.99	
2,4-Dichlorophenol			0.3427	0.3433	0.3439	0.3308	0.3325	0.3105	0.2913	AVRG		3.05005		0.3279	6	15	0.050	0.99	
1,2,4-Trichlorobenzene			0.3877	0.3891	0.3737	0.3500	0.3339	0.3101	0.2927	AVRG		2.87230		0.3482	11	15	0.050	0.99	
Naphthalene	1.1603	1.1581	1.1393	1.1029	1.0357	0.9293	0.8647	0.8016		AVRG		0.97657		1.0240	14	15	0.050	0.99	
4-Chloroaniline			0.4110	0.4406	0.5000	0.4598	0.4586	0.4338	0.4084	AVRG		2.24922		0.4446	7	15	0.050	0.99	
Hexachlorobutadiene			0.2391	0.2311	0.2266	0.2103	0.1977	0.1878	0.1719	AVRG		4.77964		0.2092	12	15	0.050	0.99	
4-Chloro-3-methylphenol			0.4304	0.4331	0.4047	0.3927	0.3910	0.3637	0.3547	AVRG		2.52667		0.3958	8	15	0.050	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
2-Methylnaphthalene	0.8939	0.8589	0.8372	0.8487	0.7723	0.7025	0.6659	0.5956		AVRG		1.29551		0.7719	14	15	0.050	0.99	
Hexachlorocyclopentadiene			0.1952	0.2303	0.2805	0.2766	0.2584	0.2631	0.2555	AVRG		3.97836		0.2514	12	15	0.050	0.99	
2,4,6-Trichlorophenol			0.3797	0.4099	0.4200	0.4041	0.3922	0.3775	0.3667	AVRG		2.54550		0.3928	5	15	0.050	0.99	
2,4,5-Trichlorophenol			0.3941	0.4360	0.4583	0.4440	0.4253	0.4009	0.3855	AVRG		2.37766		0.4206	7	15	0.050	0.99	
2-Chloronaphthalene			1.3213	1.3310	1.2860	1.1737	1.1017	1.0433	0.9911	AVRG		0.84868		1.1783	12	15	0.050	0.99	
2-Nitroaniline			0.4472	0.4657	0.4409	0.4232	0.4230	0.4072	0.4006	AVRG		2.32729		0.4297	5	15	0.050	0.99	
Dimethylphthalate			1.7151	1.7153	1.6312	1.5219	1.4240	1.3423	1.2968	AVRG		0.65748		1.5210	11	15	0.050	0.99	
2,6-Dinitrotoluene			0.4055	0.4108	0.4041	0.3949	0.3990	0.3868	0.3809	AVRG		2.51622		0.3974	3	15	0.050	0.99	
Acenaphthylene	2.1032	2.0991	2.1018	2.1056	1.9223	1.8099	1.6469	1.5898	1.5156	AVRG		0.53273		1.8771	13	15	0.050	0.99	
3-Nitroaniline			0.3073	0.3252	0.3529	0.3646	0.3710	0.3616	0.3612	AVRG		2.86434		0.3491	7	15	0.050	0.99	
Acenaphthene	1.1835	1.1855	1.1613	1.1570	1.0766	1.0034	0.9290	0.8615	0.8266	AVRG		0.95903		1.0427	14	15	0.050	0.99	
2,4-Dinitrophenol				0.0271	0.1164	0.1670	0.2026	0.2239	0.2278	LINR	24.3210	3.71812		0.1608	0.991	15	0.050	0.99	
4-Nitrophenol			0.1011m	0.1355	0.1706	0.1832	0.1966	0.2015	0.2077	QUAD	5.77787	5.21456	-0.01798	0.1709	0.999	15	0.050	0.99	
Dibenzofuran		1.7972	1.8331	1.7342	1.6421	1.4555	1.2776			AVRG		0.61604		1.6233	13	15	0.050	0.99	
2,4-Dinitrotoluene			0.5164	0.5279	0.5028	0.4550	0.3869			AVRG		2.09279		0.4778	12	15	0.050	0.99	
Diethylphthalate			1.7268	1.6526	1.5201	1.3975	1.2940	1.2287	1.1881	AVRG		0.69944		1.4297	15	15	0.050	0.99	
Fluorene	1.5029	1.4343	1.3694	1.3703	1.2326	1.0962	0.9796	0.9009		QUAD	2.70305	0.35876	0.006499	1.2358	0.998	15	0.050	0.99	
4-Chlorophenyl-phenylether	0.7384	0.7608	0.7736	0.7666	0.7040	0.6117	0.5387	0.4944	0.4600	QUAD	2.10860	0.73257	0.019562	0.6498	0.997	15	0.050	0.99	
4-Nitroaniline			0.2399m	0.2530	0.2970	0.3038	0.3169	0.3078	0.3085	AVRG		3.45354		0.2896	10	15	0.050	0.99	
4,6-Dinitro-2-methylphenol			0.0329m	0.0666	0.1241	0.1477	0.1677	0.1714	0.1717	LINR	12.6629	5.34176		0.1260	0.996	15	0.050	0.99	
N-Nitrosodiphenylamine			0.5773	0.5794	0.5505	0.5071	0.4943	0.4649	0.4329	AVRG		1.94103		0.5152	11	15	0.050	0.99	
4-Bromophenyl-phenylether			0.3276	0.3177	0.3004	0.2702	0.2587	0.2408	0.2336	AVRG		3.59145		0.2784	13	15	0.050	0.99	
Hexachlorobenzene			0.3576	0.3553	0.3286	0.2954	0.2821	0.2568	0.2467	AVRG		3.29808		0.3032	15	15	0.050	0.99	
Pentachlorophenol			0.0796	0.1281	0.1772	0.1876	0.1911	0.1858	0.1830	LINR	4.75402	5.17489		0.1618	0.998	15	0.050	0.99	
Phenanthrene	1.2822	1.2361	1.2575	1.2411	1.1677	1.0477	0.9987	0.9214	0.8898	AVRG		0.89622		1.1158	14	15	0.050	0.99	
Anthracene	1.2466	1.2316	1.2352	1.2291	1.1813	1.0641	1.0309	0.9417	0.9013	AVRG		0.89447		1.1180	12	15	0.050	0.99	
Di-n-butylphthalate			2.0506	1.9913	1.7559	1.5195	1.4013	1.2824	1.2170	QUAD	0.07412	0.40446	0.002201	1.6026	0.997	15	0.050	0.99	
Fluoranthene	1.4487	1.4489	1.4213	1.4142	1.3247	1.2061	1.1532	1.0338	0.9908	AVRG		0.78659		1.2713	14	15	0.050	0.99	
Pyrene	1.9297	1.9853	1.9777	1.9612	1.8715	1.7969	1.8836	1.7892	1.7501	AVRG		0.53112		1.8828	5	15	0.050	0.99	
Butylbenzylphthalate			1.1036	1.1252	1.0734	1.0054	1.0362	0.9737	0.9568	AVRG		0.96229		1.0392	6	15	0.050	0.99	
3,3'-Dichlorobenzidine			0.4211	0.4519	0.5284	0.5235	0.5177	0.4828	0.4451	AVRG		2.07684		0.4815	9	15	0.050	0.99	
Benzo(a)anthracene	1.6686	1.6391	1.5998	1.5464	1.4008	1.2426	1.2395	1.1439		AVRG		0.69682		1.4351	14	15	0.050	0.99	
bis(2-Ethylhexyl)phthalate	1.6915	1.5312	1.5006	1.4350	1.2312	1.0719	1.0733	1.0274		QUAD	-1.1565	0.72534	0.002114	1.3203	0.999	15	0.050	0.99	
Chrysene	1.3161	1.2812	1.2656	1.3051	1.2625	1.2119	1.2193	1.1507	1.1109	AVRG		0.80909		1.2360	6	15	0.050	0.99	
Di-n-octylphthalate			2.6629	2.6482	2.6586	2.7147	2.8630	2.7555	2.7101	AVRG		0.36817		2.7161	3	15	0.050	0.99	
Benzo(b)fluoranthene	1.4232m	1.4495m	1.4505m	1.4017	1.4671	1.4641	1.5926	1.6800	1.6785	AVRG		0.66141		1.5119	7	15	0.050	0.99	
Benzo(k)fluoranthene	1.4666m	1.4514	1.3931	1.4412	1.3723	1.4065	1.4303	1.2906	1.2298	AVRG		0.72105		1.3869	6	15	0.050	0.99	
Benzo(a)pyrene	1.1975	1.2053	1.2044	1.2365	1.2270	1.1869	1.2283	1.1886	1.1707	AVRG		0.82987		1.2050	2	15	0.050	0.99	
Indeno(1,2,3-cd)pyrene	1.0481	1.1289	1.1304	1.1736	1.0262	0.9234	0.9130	0.8911	0.8705	AVRG		0.98843		1.0117	11	15	0.050	0.99	
Dibenz(a,h)anthracene	0.8373	0.8953	0.8928	0.9564	0.8433	0.7694	0.7628	0.7379	0.7183	AVRG		1.21400		0.8237	10	15	0.050	0.99	
Benzo(g,h,i)perylene	0.8389	0.9057	0.8984	0.9137	0.8004	0.7197	0.7273	0.7103	0.6990	AVRG		1.24770		0.8015	11	15	0.050	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
2-Fluorophenol			1.3174	1.3705	1.3888	1.3811	1.4150	1.4285	1.4351	AVRG		0.71895		1.3909	3	15	0.050	0.99	
Phenol-d5			1.8375	1.9298	1.8935	1.8086	1.7950	1.7291	1.6805	AVRG		0.55231		1.8106	5	15	0.050	0.99	
Nitrobenzene-d5			0.4942	0.4878	0.4646	0.4459	0.4424	0.4205	0.3946	AVRG		2.22226		0.4500	8	15	0.050	0.99	
2-Fluorobiphenyl			1.4438	1.4276	1.3553	1.2477	1.1589	1.0665	1.0288	AVRG		0.80196		1.2469	14	15	0.050	0.99	
2,4,6-Tribromophenol			0.2555	0.2802	0.2929	0.2767	0.2606	0.2493	0.2373	AVRG		3.77873		0.2646	7	15	0.050	0.99	
Terphenyl-d14			1.3736	1.3842	1.3204	1.2245	1.2511	1.1776	1.1673	AVRG		0.78663		1.2712	7	15	0.050	0.99	

260

m=manual integration

AVRG=Average response factor LINR=Linear regression QUAD=Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

536108715001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185586 MSBNA Water
EPA 8270C

Inst : MSBNA04 Name : 6PTBNA4
Calnum : 536108715001 Cal Date: 16-MAR-2006

ICV 536110111003 (wch03 17-MAR-2006) stds: S1959

Analyte	Spiked	Quant	Units	%D	Max	Flags
Phenol	80.00	79.30	ng	-1	20	
bis(2-Chloroethyl)ether	80.00	74.19	ng	-7	30	
2-Chlorophenol	80.00	73.13	ng	-9	30	
1,3-Dichlorobenzene	80.00	72.28	ng	-10	30	
1,4-Dichlorobenzene	80.00	74.32	ng	-7	20	
Benzyl alcohol	80.00	74.56	ng	-7	30	
1,2-Dichlorobenzene	80.00	68.98	ng	-14	30	
2-Methylphenol	80.00	73.39	ng	-8	30	
bis(2-Chloroisopropyl) ether	80.00	78.24	ng	-2	30	
4-Methylphenol	80.00	74.49	ng	-7	30	
N-Nitroso-di-n-propylamine	80.00	78.73	ng	-2	30	
Hexachloroethane	80.00	74.51	ng	-7	30	
Nitrobenzene	80.00	67.98	ng	-15	30	
Isophorone	80.00	68.90	ng	-14	30	
2-Nitrophenol	80.00	73.51	ng	-8	20	
2,4-Dimethylphenol	80.00	72.03	ng	-10	30	
bis(2-Chloroethoxy)methane	80.00	68.32	ng	-15	30	
Benzoic acid	80.00	80.29	ng	0	40	
2,4-Dichlorophenol	80.00	73.33	ng	-8	20	
1,2,4-Trichlorobenzene	80.00	69.74	ng	-13	30	
Naphthalene	80.00	66.08	ng	-17	30	
4-Chloroaniline	80.00	68.47	ng	-14	30	
Hexachlorobutadiene	80.00	68.28	ng	-15	20	
4-Chloro-3-methylphenol	80.00	69.33	ng	-13	20	
2-Methylnaphthalene	80.00	64.79	ng	-19	30	
Hexachlorocyclopentadiene	80.00	83.26	ng	4	40	
2,4,6-Trichlorophenol	80.00	76.02	ng	-5	20	
2,4,5-Trichlorophenol	80.00	79.01	ng	-1	30	
2-Chloronaphthalene	80.00	72.60	ng	-9	30	
2-Nitroaniline	80.00	76.17	ng	-5	30	
Dimethylphthalate	80.00	76.59	ng	-4	30	
2,6-Dinitrotoluene	80.00	70.66	ng	-12	30	
Acenaphthylene	80.00	71.79	ng	-10	30	
3-Nitroaniline	80.00	79.04	ng	-1	30	
Acenaphthene	80.00	72.58	ng	-9	20	
2,4-Dinitrophenol	80.00	72.18	ng	-10	40	
4-Nitrophenol	80.00	73.33	ng	-8	40	
Dibenzofuran	80.00	70.70	ng	-12	30	
2,4-Dinitrotoluene	80.00	73.76	ng	-8	30	
Diethylphthalate	80.00	75.39	ng	-6	30	
Fluorene	80.00	78.44	ng	-2	30	
4-Chlorophenyl-phenylether	80.00	77.30	ng	-3	40	
4-Nitroaniline	80.00	81.88	ng	2	30	
4,6-Dinitro-2-methylphenol	80.00	78.28	ng	-2	30	
N-Nitrosodiphenylamine	80.00	81.18	ng	1	20	
4-Bromophenyl-phenylether	80.00	69.46	ng	-13	30	
Hexachlorobenzene	80.00	68.59	ng	-14	30	
Pentachlorophenol	80.00	71.27	ng	-11	20	
Phenanthrene	80.00	66.76	ng	-17	30	

Analyte	Spiked	Quant	Units	%D	Max	Flags
Anthracene	80.00	68.02	ng	-15	30	
Di-n-butylphthalate	80.00	70.73	ng	-12	30	
Fluoranthene	80.00	67.83	ng	-15	20	
Pyrene	80.00	69.00	ng	-14	30	
Butylbenzylphthalate	80.00	69.21	ng	-13	30	
3,3'-Dichlorobenzidine	80.00	72.36	ng	-10	40	
Benzo(a)anthracene	80.00	60.38	ng	**-25**	30	!v-
bis(2-Ethylhexyl)phthalate	80.00	68.14	ng	-15	30	
Chrysene	80.00	74.83	ng	-6	30	
Di-n-octylphthalate	80.00	72.96	ng	-9	20	
Benzo(b)fluoranthene	80.00	76.84	ng	-4	30	
Benzo(k)fluoranthene	80.00	78.67	ng	-2	30	
Benzo(a)pyrene	80.00	75.81	ng	-5	20	
Indeno(1,2,3-cd)pyrene	80.00	76.89	ng	-4	30	
Dibenz(a,h)anthracene	80.00	78.47	ng	-2	30	
Benzo(g,h,i)perylene	80.00	79.66	ng	0	30	

!=warning -=low bias v=ICV

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG03.D
Report Date: 17-Mar-2006 10:19

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG03.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 16-MAR-2006 13:15 MS Autotune Date: 12-DEC-2005 12:21
Operator : LLH Inst ID: MSBNA04.i
Smp Info : ICAL,S2578
Misc Info : 2ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\6PTBNA4.m
Meth Date : 17-Mar-2006 10:19 target Quant Type: ISTD
Cal Date : 16-MAR-2006 13:15 Cal File: WCG03.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 Pyridine	79	5.314	5.258	(0.617)	6401	2.00000	0.6264(a)
	2 N-Nitrosodimethylamine	74	5.204	5.203	(0.604)	12296	2.00000	1.8551(aQ)
$	3 2-Fluorophenol	112	6.663	6.653	(0.773)	15985	2.00000	1.8422(a)
$	4 Phenol-d5	99	7.901	7.909	(0.917)	22716	2.00000	2.0111(a)
	5 Phenol	94	7.929	7.928	(0.920)	25275	2.00000	2.1689(a)
	6 Aniline	66	8.066	8.064	(0.936)	9241	2.00000	1.8014(aQ)
	7 bis(2-Chloroethyl)ether	63	8.112	8.111	(0.941)	18434	2.00000	2.3027(aQ)
	8 2-Chlorophenol	128	8.268	8.266	(0.960)	16658	2.00000	1.9055(a)
	9 1,3-Dichlorobenzene	146	8.534	8.532	(0.990)	20602	2.00000	2.1582(a)
*	10 1,4-Dichlorobenzene-d4	152	8.617	8.616	(1.000)	249534	40.0000	
	11 1,4-Dichlorobenzene	146	8.653	8.651	(1.004)	20588	2.00000	2.2836(a)
	12 1,2-Dichlorobenzene	146	8.928	8.928	(1.036)	20226	2.00000	2.2638(a)
	13 Benzyl alcohol	108	8.818	8.818	(1.023)	11813	2.00000	1.6889(a)
	14 2-Methylphenol	107	8.974	8.973	(1.042)	16566	2.00000	2.2011(a)
	15 bis(2-Chloroisopropyl) ether	45	9.029	9.029	(1.048)	41753	2.00000	8.9241
	16 4-Methylphenol	107	9.240	9.258	(1.072)	22974	2.00000	1.8891(a)
	17 N-Nitroso-di-n-propylamine	70	9.286	9.313	(1.078)	16358	2.00000	2.3818(a)
	18 Hexachloroethane	117	9.552	9.561	(1.109)	8572	2.00000	2.1377(aQ)
$	19 Nitrobenzene-d5	82	9.635	9.634	(0.868)	24065	2.00000	2.2680(a)
	20 Nitrobenzene	77	9.672	9.671	(0.871)	23127	2.00000	2.3628(a)

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG03.D
Report Date: 17-Mar-2006 10:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	10.112	10.139	(0.911)	49434	2.00000	2.1202(a)
	22 2-Nitrophenol	139	10.314	10.295	(0.929)	9923	2.00000	1.9982(aQ)
	23 2,4-Dimethylphenol	122	10.295	10.313	(0.927)	16313	2.00000	2.1564(a)
	24 bis(2-Chloroethoxy)methane	93	10.497	10.515	(0.945)	28975	2.00000	4.1579(a)
	25 2,4-Dichlorophenol	162	10.782	10.781	(0.971)	14080	2.00000	1.8213(a)
	26 Benzoic acid	122	10.295	10.533	(0.927)	16313	2.00000	34.0004(Q)
	27 1,2,4-Trichlorobenzene	180	10.965	10.973	(0.988)	19351	2.00000	2.3572(a)
*	28 Naphthalene-d8	136	11.103	11.111	(1.000)	943150	40.0000	
	29 Naphthalene	128	11.148	11.157	(1.004)	54719	2.00000	2.2663(a)
	30 4-Chloroaniline	127	11.249	11.239	(1.013)	17874	2.00000	1.7050(a)
	31 Hexachlorobutadiene	225	11.387	11.395	(1.026)	11486	2.00000	2.3283(a)
	33 4-Chloro-3-methylphenol	107	12.268	12.276	(1.105)	19131	2.00000	2.0500(a)
	34 2-Methylnaphthalene	142	12.680	12.680	(1.142)	42156	2.00000	2.3162(a)
	35 Hexachlorocyclopentadiene	237	13.038	13.037	(0.862)	3381	2.00000	0.8934(a)
	36 2,4,6-Trichlorophenol	196	13.323	13.322	(0.881)	8254	2.00000	1.3955(aQ)
	37 2,4,5-Trichlorophenol	196	13.405	13.404	(0.886)	8866	2.00000	1.4001(aQ)
$	38 2-Fluorobiphenyl	172	13.497	13.514	(0.892)	45811	2.00000	2.4401(a)
	39 2-Chloronaphthalene	162	13.809	13.817	(0.913)	38779	2.00000	2.1859(a)
	40 2-Nitroaniline	65	14.047	14.065	(0.928)	14215	2.00000	2.1973(a)
	41 Dimethylphthalate	163	14.433	14.469	(0.954)	55404	2.00000	2.4194(a)
	42 2,6-Dinitrotoluene	165	14.598	14.624	(0.965)	11557	2.00000	1.9314(a)
	43 Acenaphthylene	152	14.790	14.808	(0.978)	63330	2.00000	2.2408(a)
	44 3-Nitroaniline	138	15.029	15.046	(0.993)	9430	2.00000	1.7940(aQ)
*	45 Acenaphthene-d10	164	15.130	15.138	(1.000)	602230	40.0000	
	46 Acenaphthene	154	15.203	15.230	(1.005)	35638	2.00000	2.2700(a)
	49 Dibenzofuran	168	15.616	15.634	(1.032)	54969	2.00000	2.2491(a)
	50 2,4-Dinitrotoluene	165	15.570	15.606	(1.029)	15227	2.00000	2.1165(a)
	52 Diethylphthalate	149	16.121	16.155	(1.065)	54262	2.00000	2.5208(a)
	53 4-Chlorophenyl-phenylether	204	16.423	16.440	(1.085)	22234	2.00000	3.2331(a)
	54 Fluorene	166	16.442	16.468	(1.087)	45256	2.00000	3.8401(a)
	55 4-Nitroaniline	138	16.497	16.542	(1.090)	6258	2.00000	1.4354(aQ)
	57 N-Nitrosodiphenylamine	169	16.699	16.734	(0.891)	27232	2.00000	2.2634(a)
	58 Azobenzene	77	16.799	16.826	(0.897)	61392	2.00000	3.6472(a)
$	59 2,4,6-Tribromophenol	330	17.029	17.046	(1.125)	5438	2.00000	1.3648(aQ)
	60 4-Bromophenyl-phenylether	248	17.616	17.633	(0.940)	15209	2.00000	2.3389(a)
	61 Hexachlorobenzene	284	17.790	17.817	(0.950)	18104	2.00000	2.5567(a)
*	63 Phenanthrene-d10	188	18.735	18.753	(1.000)	934131	40.0000	
	64 Phenanthrene	178	18.790	18.817	(1.003)	59887	2.00000	2.2982(a)
	65 Anthracene	178	18.909	18.936	(1.009)	58223	2.00000	2.2300(a)
	66 Carbazole	167	19.304	19.321	(1.030)	47822	2.00000	2.1700(a)
	67 Di-n-butylphthalate	149	20.120	20.138	(1.074)	98928	2.00000	1.8269(a)
	68 Fluoranthene	202	21.808	21.835	(1.164)	67664	2.00000	2.2790(a)
	69 Benzidine	184	22.175	22.165	(0.860)	6226	2.00000	9.3775
	70 Pyrene	202	22.414	22.450	(0.869)	65689	2.00000	2.0498(a)
$	71 Terphenyl-d14	244	22.808	22.835	(0.885)	47622	2.00000	2.2009(a)
	72 Butylbenzylphthalate	149	24.138	24.165	(0.936)	38194	2.00000	2.1593(a)
	73 bis(2-Ethylhexyl)phthalate	149	25.744	25.770	(0.999)	57582	2.00000	(a)
	74 3,3'-Dichlorobenzidine	252	25.670	25.688	(0.996)	13649	2.00000	1.6654(a)
	75 Benzo(a)anthracene	228	25.735	25.761	(0.998)	56802	2.00000	2.3254(a)
*	76 Chrysene-d12	240	25.780	25.807	(1.000)	680821	40.0000	
	77 Chrysene	228	25.845	25.880	(1.002)	44803	2.00000	2.1297(a)
	78 Di-n-octylphthalate	149	27.533	27.559	(0.928)	86346	2.00000	2.0343(a)
	79 Benzo(b)fluoranthene	252	28.661	28.697	(0.966)	44479	2.00000	1.8826(aM)
	80 Benzo(k)fluoranthene	252	28.734	28.770	(0.968)	45835	2.00000	2.1149(aAM)

3/20/06

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG03.D
Report Date: 17-Mar-2006 10:19

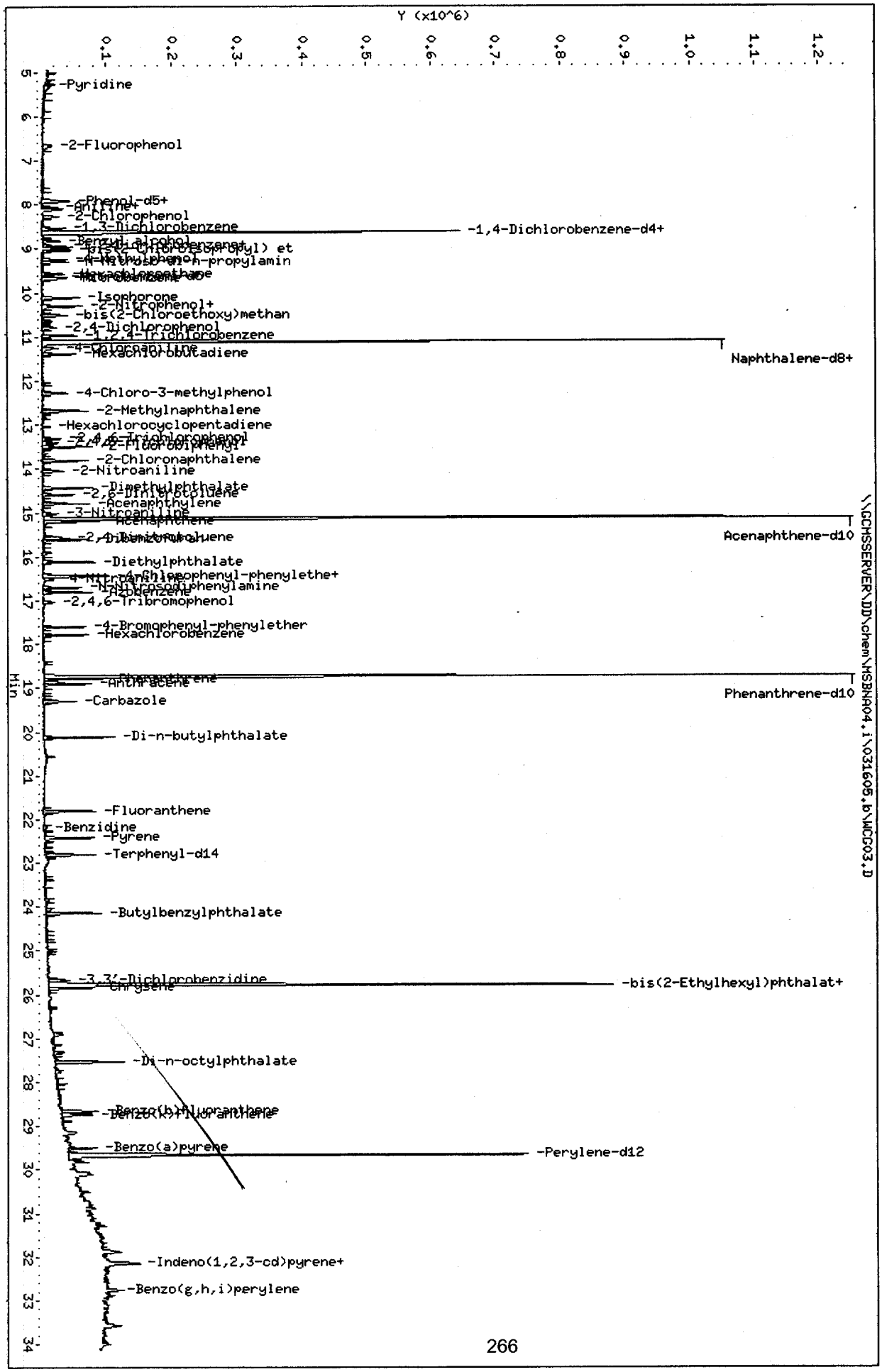
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
81 Benzo(a)pyrene	252	29.505	29.541	(0.994)	37427	2.00000	1.9875(a)
* 82 Perylene-d12	264	29.670	29.678	(1.000)	625069	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	32.129	32.164	(1.083)	32758	2.00000	2.0720(a)
84 Dibenz(a,h)anthracene	278	32.147	32.174	(1.083)	26167	2.00000	2.0328(a)
85 Benzo(g,h,i)perylene	276	32.762	32.796	(1.104)	26218	2.00000	2.0933(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCC03.D
Date : 16-MAR-2006 13:15
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2578
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG04.D
Report Date: 17-Mar-2006 10:20

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG04.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 16-MAR-2006 14:00 MS Autotune Date: 12-DEC-2005 12:21
Operator : LLH Inst ID: MSBNA04.i
Smp Info : ICAL,S2579
Misc Info : 5ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\6PTBNA4.m
Meth Date : 17-Mar-2006 10:20 target Quant Type: ISTD
Cal Date : 16-MAR-2006 14:00 Cal File: WCG04.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	5.272	5.258	(0.612)	55986	5.00000	4.7000(aM)
2 N-Nitrosodimethylamine	74	5.199	5.203	(0.603)	37073	5.00000	4.7979(aM)
$ 3 2-Fluorophenol	112	6.657	6.653	(0.772)	48219	5.00000	4.7667(a)
$ 4 Phenol-d5	99	7.905	7.909	(0.917)	66059	5.00000	5.0167
5 Phenol	94	7.923	7.928	(0.919)	72378	5.00000	5.3277
6 Aniline	66	8.070	8.064	(0.936)	27415	5.00000	4.5842(aQ)
7 bis(2-Chloroethyl)ether	63	8.107	8.111	(0.940)	53304	5.00000	5.7117(Q)
8 2-Chlorophenol	128	8.272	8.266	(0.960)	50125	5.00000	4.9183(a)
9 1,3-Dichlorobenzene	146	8.529	8.532	(0.989)	58190	5.00000	5.2289
* 10 1,4-Dichlorobenzene-d4	152	8.620	8.616	(1.000)	290905	40.0000	
11 1,4-Dichlorobenzene	146	8.648	8.651	(1.003)	58676	5.00000	5.5827
12 1,2-Dichlorobenzene	146	8.932	8.928	(1.036)	58078	5.00000	5.5760
13 Benzyl alcohol	108	8.813	8.818	(1.022)	37448	5.00000	4.5926(a)
14 2-Methylphenol	107	8.969	8.973	(1.040)	48236	5.00000	5.4977
15 bis(2-Chloroisopropyl) ether	45	9.033	9.029	(1.048)	119112	5.00000	9.7690
16 4-Methylphenol	107	9.235	9.258	(1.071)	70796	5.00000	4.9937(a)
17 N-Nitroso-di-n-propylamine	70	9.281	9.313	(1.077)	45262	5.00000	5.6532
18 Hexachloroethane	117	9.556	9.561	(1.109)	25199	5.00000	5.3907
$ 19 Nitrobenzene-d5	82	9.630	9.634	(0.867)	62686	5.00000	5.3286
20 Nitrobenzene	77	9.666	9.671	(0.870)	64654	5.00000	5.9578

3/20/06

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG04.D
Report Date: 17-Mar-2006 10:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	10.107	10.139	(0.910)	151191	5.00000	5.8487
	22 2-Nitrophenol	139	10.299	10.295	(0.927)	27043	5.00000	4.9117(a)
	23 2,4-Dimethylphenol	122	10.299	10.313	(0.927)	48394	5.00000	5.7699
	24 bis(2-Chloroethoxy)methane	93	10.501	10.515	(0.945)	80831	5.00000	6.3832
	25 2,4-Dichlorophenol	162	10.776	10.781	(0.970)	42097	5.00000	4.9114(a)
	27 1,2,4-Trichlorobenzene	180	10.969	10.973	(0.988)	53365	5.00000	5.8633
*	28 Naphthalene-d8	136	11.106	11.111	(1.000)	1045693	40.0000	
	29 Naphthalene	128	11.143	11.157	(1.003)	151375	5.00000	5.6547
	30 4-Chloroaniline	127	11.244	11.239	(1.012)	59288	5.00000	5.1009
	31 Hexachlorobutadiene	225	11.391	11.395	(1.026)	30887	5.00000	5.6471
	32 Resorcinol	110	12.024	12.037	(1.083)	29472	5.00000	10.8214(A)
	33 4-Chloro-3-methylphenol	107	12.262	12.276	(1.104)	55624	5.00000	5.3760
	34 2-Methylnaphthalene	142	12.675	12.680	(1.141)	112270	5.00000	5.5636
	35 Hexachlorocyclopentadiene	237	13.033	13.037	(0.861)	13713	5.00000	3.1810(a)
	36 2,4,6-Trichlorophenol	196	13.308	13.322	(0.879)	27483	5.00000	4.0791(a)
	37 2,4,5-Trichlorophenol	196	13.400	13.404	(0.885)	33297	5.00000	4.6162(aM)
$	38 2-Fluorobiphenyl	172	13.501	13.514	(0.892)	123772	5.00000	5.7877
	39 2-Chloronaphthalene	162	13.804	13.817	(0.912)	114083	5.00000	5.6454
	40 2-Nitroaniline	65	14.042	14.065	(0.928)	39017	5.00000	5.2946(a)
	41 Dimethylphthalate	163	14.436	14.469	(0.954)	153534	5.00000	5.8860
	42 2,6-Dinitrotoluene	165	14.592	14.624	(0.964)	34740	5.00000	5.0969
	43 Acenaphthylene	152	14.794	14.808	(0.978)	180001	5.00000	5.5912
	44 3-Nitroaniline	138	15.024	15.046	(0.993)	27479	5.00000	4.5894(a)
*	45 Acenaphthene-d10	164	15.134	15.138	(1.000)	686007	40.0000	
	46 Acenaphthene	154	15.207	15.230	(1.005)	101657	5.00000	5.6846
	48 4-Nitrophenol	109	15.391	15.413	(1.017)	4597	5.00000	7.1743(aQ)
	49 Dibenzofuran	168	15.611	15.634	(1.032)	154110	5.00000	5.5356
	50 2,4-Dinitrotoluene	165	15.565	15.606	(1.028)	45459	5.00000	5.5472
	51 2,3,4,6-Tetrachlorophenol	232	15.913	15.927	(1.052)	19530	5.00000	3.3693(aA)
	52 Diethylphthalate	149	16.115	16.155	(1.065)	153974	5.00000	6.2795
	53 4-Chlorophenyl-phenylether	204	16.418	16.440	(1.085)	65240	5.00000	5.1784
	54 Fluorene	166	16.446	16.468	(1.087)	122991	5.00000	5.6101
	55 4-Nitroaniline	138	16.491	16.542	(1.090)	19361	5.00000	3.8987(aM)
	57 N-Nitrosodiphenylamine	169	16.702	16.734	(0.891)	77722	5.00000	5.6707
	58 Azobenzene	77	16.803	16.826	(0.897)	168551	5.00000	5.8501
$	59 2,4,6-Tribromophenol	330	17.033	17.046	(1.125)	18652	5.00000	4.1096(a)
	60 4-Bromophenyl-phenylether	248	17.611	17.633	(0.940)	42421	5.00000	5.7268
	61 Hexachlorobenzene	284	17.794	17.817	(0.950)	50815	5.00000	6.2996
	62 Pentachlorophenol	266	18.280	18.285	(0.976)	4703	5.00000	5.6688(aQ)
*	63 Phenanthrene-d10	188	18.739	18.753	(1.000)	1064129	40.0000	
	64 Phenanthrene	178	18.794	18.817	(1.003)	164424	5.00000	5.5391
	65 Anthracene	178	18.913	18.936	(1.009)	163827	5.00000	5.5082
	66 Carbazole	167	19.299	19.321	(1.030)	129110	5.00000	5.1430
	67 Di-n-butylphthalate	149	20.124	20.138	(1.074)	280517	5.00000	4.5836(a)
	68 Fluoranthene	202	21.812	21.835	(1.164)	192731	5.00000	5.6985
	69 Benzidine	184	22.179	22.165	(0.860)	6549	5.00000	9.2458
	70 Pyrene	202	22.418	22.450	(0.869)	193887	5.00000	5.2721
$	71 Terphenyl-d14	244	22.812	22.835	(0.885)	133828	5.00000	5.3896
	72 Butylbenzylphthalate	149	24.142	24.165	(0.936)	111307	5.00000	5.4836
	73 bis(2-Ethylhexyl)phthalate	149	25.748	25.770	(0.999)	149542	5.00000	2.2684(a)
	74 3,3'-Dichlorobenzidine	252	25.665	25.688	(0.995)	42606	5.00000	4.5301(a)
	75 Benzo(a)anthracene	228	25.738	25.761	(0.998)	160077	5.00000	5.7107
*	76 Chrysene-d12	240	25.784	25.807	(1.000)	781297	40.0000	
	77 Chrysene	228	25.839	25.880	(1.002)	125129	5.00000	5.1832

3/20/06

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG04.D
Report Date: 17-Mar-2006 10:20

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
78 Di-n-octylphthalate	149	27.527	27.559	(0.928)	237716	5.00000	4.9933(a)
79 Benzo(b)fluoranthene	252	28.665	28.697	(0.966)	127030	5.00000	4.7936(aM)
80 Benzo(k)fluoranthene	252	28.729	28.770	(0.968)	127194	5.00000	5.2326(A)
81 Benzo(a)pyrene	252	29.500	29.541	(0.994)	105624	5.00000	5.0010
* 82 Perylene-d12	264	29.665	29.678	(1.000)	701090	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	32.132	32.164	(1.083)	98934	5.00000	5.5792
84 Dibenz(a,h)anthracene	278	32.142	32.174	(1.083)	78465	5.00000	5.4347
85 Benzo(g,h,i)perylene	276	32.765	32.796	(1.105)	79373	5.00000	5.6502

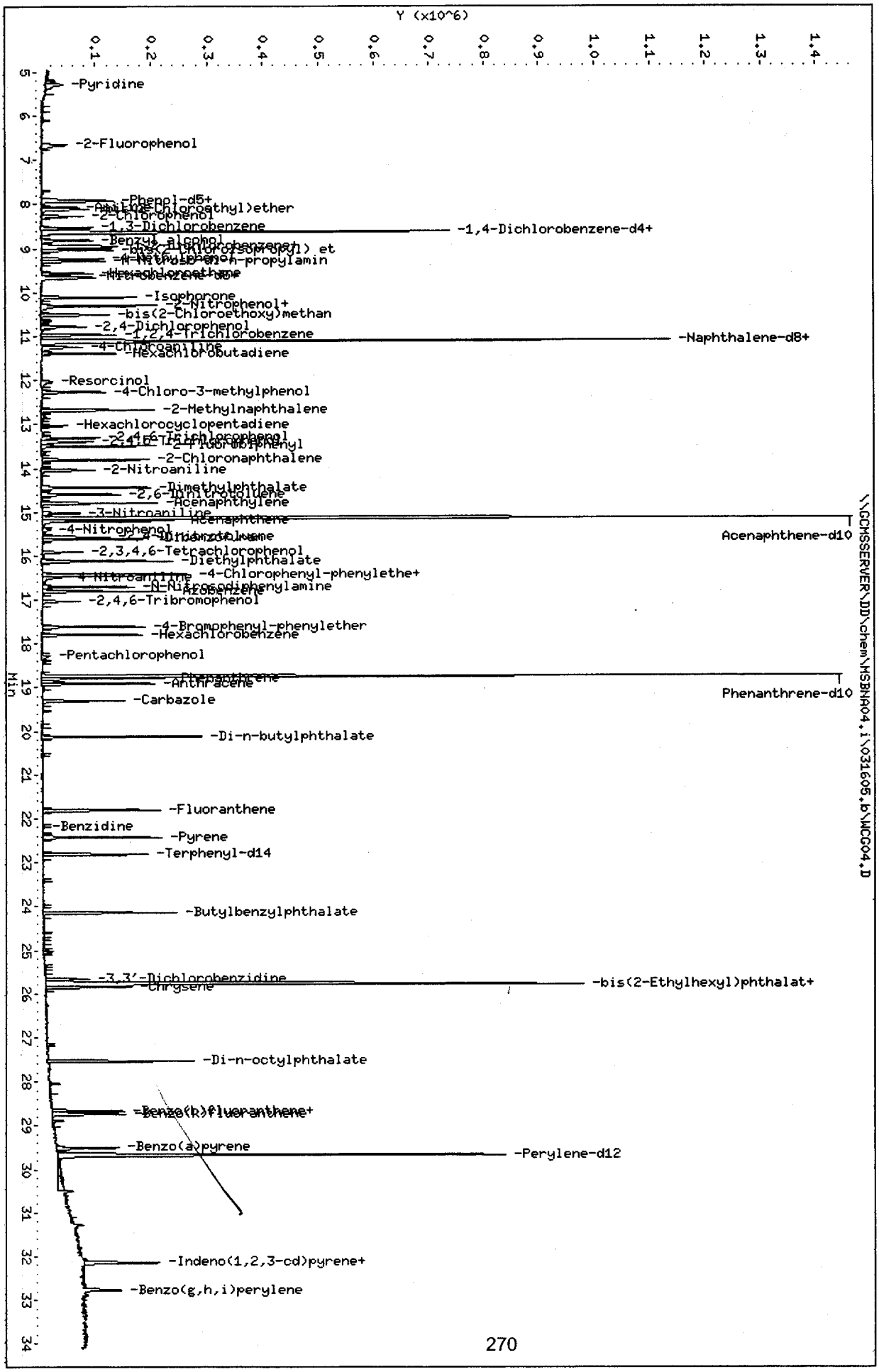
3/20/06

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\MCG04.D
Date : 16-MAR-2006 14:00
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2579
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG05.D
Report Date: 17-Mar-2006 10:20

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG05.D
Lab Smp Id:
Inj Date : 16-MAR-2006 14:45
Operator : LLH
Smp Info : ICAL,S2580
Misc Info : 10ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\6PTBNA4.m
Meth Date : 17-Mar-2006 10:20 target
Cal Date : 16-MAR-2006 14:45
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSBNA03

Client Smp ID: CURTIS&TOMPKINS
MS Autotune Date: 12-DEC-2005 12:21
Inst ID: MSBNA04.i

Quant Type: ISTD
Cal File: WCG05.D
Calibration Sample, Level: 3

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 Pyridine	79	5.276	5.258	(0.612)	115345	10.0000	9.0407(M)
	2 N-Nitrosodimethylamine	74	5.203	5.203	(0.604)	79490	10.0000	9.6048(M)
$	3 2-Fluorophenol	112	6.661	6.653	(0.773)	102620	10.0000	9.4716
$	4 Phenol-d5	99	7.900	7.909	(0.917)	143132	10.0000	10.1487
	5 Phenol	94	7.927	7.928	(0.920)	160504	10.0000	11.0308
	6 Aniline	66	8.065	8.064	(0.936)	64460	10.0000	10.0636(Q)
	7 bis(2-Chloroethyl)ether	63	8.111	8.111	(0.941)	113929	10.0000	11.3979(Q)
	8 2-Chlorophenol	128	8.267	8.266	(0.960)	106129	10.0000	9.7226
	9 1,3-Dichlorobenzene	146	8.533	8.532	(0.990)	130550	10.0000	10.9528
*	10 1,4-Dichlorobenzene-d4	152	8.615	8.616	(1.000)	311578	40.0000	
	11 1,4-Dichlorobenzene	146	8.652	8.651	(1.004)	122663	10.0000	10.8965
	12 1,2-Dichlorobenzene	146	8.927	8.928	(1.036)	122947	10.0000	11.0209
	13 Benzyl alcohol	108	8.808	8.818	(1.022)	82959	10.0000	9.4992
	14 2-Methylphenol	107	8.964	8.973	(1.040)	99770	10.0000	10.6169
	15 bis(2-Chloroisopropyl) ether	45	9.028	9.029	(1.048)	237732	10.0000	11.5959
	16 4-Methylphenol	107	9.239	9.258	(1.072)	151892	10.0000	10.0030
	17 N-Nitroso-di-n-propylamine	70	9.285	9.313	(1.078)	96764	10.0000	11.2839
	18 Hexachloroethane	117	9.560	9.561	(1.110)	54755	10.0000	10.9362
$	19 Nitrobenzene-d5	82	9.624	9.634	(0.867)	139385	10.0000	10.9813
	20 Nitrobenzene	77	9.661	9.671	(0.870)	133966	10.0000	11.4412

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Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG05.D
Report Date: 17-Mar-2006 10:20

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
21 Isophorone	82	10.111	10.139	(0.911)	305072	10.0000	10.9378
22 2-Nitrophenol	139	10.294	10.295	(0.927)	59485	10.0000	10.0132
23 2,4-Dimethylphenol	122	10.294	10.313	(0.927)	99319	10.0000	10.9749
24 bis(2-Chloroethoxy)methane	93	10.496	10.515	(0.945)	178671	10.0000	10.5792
25 2,4-Dichlorophenol	162	10.771	10.781	(0.970)	96661	10.0000	10.4520
26 Benzoic acid	122	~~10.294~~ N/A	10.533	(0.927)	99319	10.0000	44.0988(Q)
27 1,2,4-Trichlorobenzene	180	10.964	10.973	(0.988)	109350	10.0000	11.1350
* 28 Naphthalene-d8	136	11.101	11.111	(1.000)	1128275	40.0000	
29 Naphthalene	128	11.147	11.157	(1.004)	321366	10.0000	11.1261
30 4-Chloroaniline	127	11.248	11.239	(1.013)	115921	10.0000	9.2435
31 Hexachlorobutadiene	225	11.386	11.395	(1.026)	67451	10.0000	11.4295
32 Resorcinol	110	12.028	12.037	(1.083)	57155	10.0000	13.5615(A)
33 4-Chloro-3-methylphenol	107	12.257	12.276	(1.104)	121399	10.0000	10.8744
34 2-Methylnaphthalene	142	12.670	12.680	(1.141)	236148	10.0000	10.8459
35 Hexachlorocyclopentadiene	237	13.028	13.037	(0.861)	34315	10.0000	7.7659
36 2,4,6-Trichlorophenol	196	13.312	13.322	(0.879)	66743	10.0000	9.6646
37 2,4,5-Trichlorophenol	196	13.395	13.404	(0.885)	69274	10.0000	9.3697
$ 38 2-Fluorobiphenyl	172	13.496	13.514	(0.892)	253800	10.0000	11.5785
39 2-Chloronaphthalene	162	13.808	13.817	(0.912)	232264	10.0000	11.2132
40 2-Nitroaniline	65	14.037	14.065	(0.927)	78610	10.0000	10.4072(a)
41 Dimethylphthalate	163	14.441	14.469	(0.954)	301495	10.0000	11.2764
42 2,6-Dinitrotoluene	165	14.597	14.624	(0.964)	71290	10.0000	10.2043
43 Acenaphthylene	152	14.789	14.808	(0.977)	369478	10.0000	11.1969
44 3-Nitroaniline	138	15.018	15.046	(0.992)	54024	10.0000	8.8027(a)
* 45 Acenaphthene-d10	164	15.138	15.138	(1.000)	703158	40.0000	
46 Acenaphthene	154	15.211	15.230	(1.005)	204140	10.0000	11.1370
48 4-Nitrophenol	109	15.385	15.413	(1.016)	17765	10.0000	11.0292(aM)
49 Dibenzofuran	168	15.615	15.634	(1.032)	322237	10.0000	11.2924
50 2,4-Dinitrotoluene	165	15.569	15.606	(1.028)	90784	10.0000	10.8079
51 2,3,4,6-Tetrachlorophenol	232	15.908	15.927	(1.051)	46152	10.0000	7.7680(A)
52 Diethylphthalate	149	16.119	16.155	(1.065)	303547	10.0000	12.0777
53 4-Chlorophenyl-phenylether	204	16.422	16.440	(1.085)	135998	10.0000	8.9468
54 Fluorene	166	16.440	16.468	(1.086)	240730	10.0000	8.8348
55 4-Nitroaniline	138	16.495	16.542	(1.090)	42177	10.0000	8.2860(aM)
56 4,6-Dinitro-2-methylphenol	198	16.560	16.588	(0.884)	8855	10.0000	14.4198(aQM)
57 N-Nitrosodiphenylamine	169	16.706	16.734	(0.891)	155412	10.0000	11.2046
58 Azobenzene	77	16.807	16.826	(0.897)	323559	10.0000	9.6322
$ 59 2,4,6-Tribromophenol	330	17.028	17.046	(1.125)	44916	10.0000	9.6550
60 4-Bromophenyl-phenylether	248	17.615	17.633	(0.940)	88210	10.0000	11.7670
61 Hexachlorobenzene	284	17.798	17.817	(0.950)	96274	10.0000	11.7937
62 Pentachlorophenol	266	18.275	18.285	(0.975)	21418	10.0000	8.8708(a)
* 63 Phenanthrene-d10	188	18.743	18.753	(1.000)	1076910	40.0000	
64 Phenanthrene	178	18.789	18.817	(1.002)	338547	10.0000	11.2697
65 Anthracene	178	18.917	18.936	(1.009)	332544	10.0000	11.0482
66 Carbazole	167	19.303	19.321	(1.030)	261308	10.0000	10.2855
67 Di-n-butylphthalate	149	20.128	20.138	(1.074)	552088	10.0000	9.2937
68 Fluoranthene	202	21.816	21.835	(1.164)	382652	10.0000	11.1798
69 Benzidine	184	22.174	22.165	(0.860)	9525	10.0000	9.8889
70 Pyrene	202	22.422	22.450	(0.870)	389032	10.0000	10.5042
$ 71 Terphenyl-d14	244	22.807	22.835	(0.885)	270198	10.0000	10.8053
72 Butylbenzylphthalate	149	24.146	24.165	(0.937)	217076	10.0000	10.6194
73 bis(2-Ethylhexyl)phthalate	149	25.752	25.770	(0.999)	295182	10.0000	8.6789
74 3,3'-Dichlorobenzidine	252	25.669	25.688	(0.996)	82837	10.0000	8.7460(a)
75 Benzo(a)anthracene	228	25.733	25.761	(0.998)	314696	10.0000	11.1480

2,4 Dinitrophenol N/A

3/20/06

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG05.D
Report Date: 17-Mar-2006 10:20

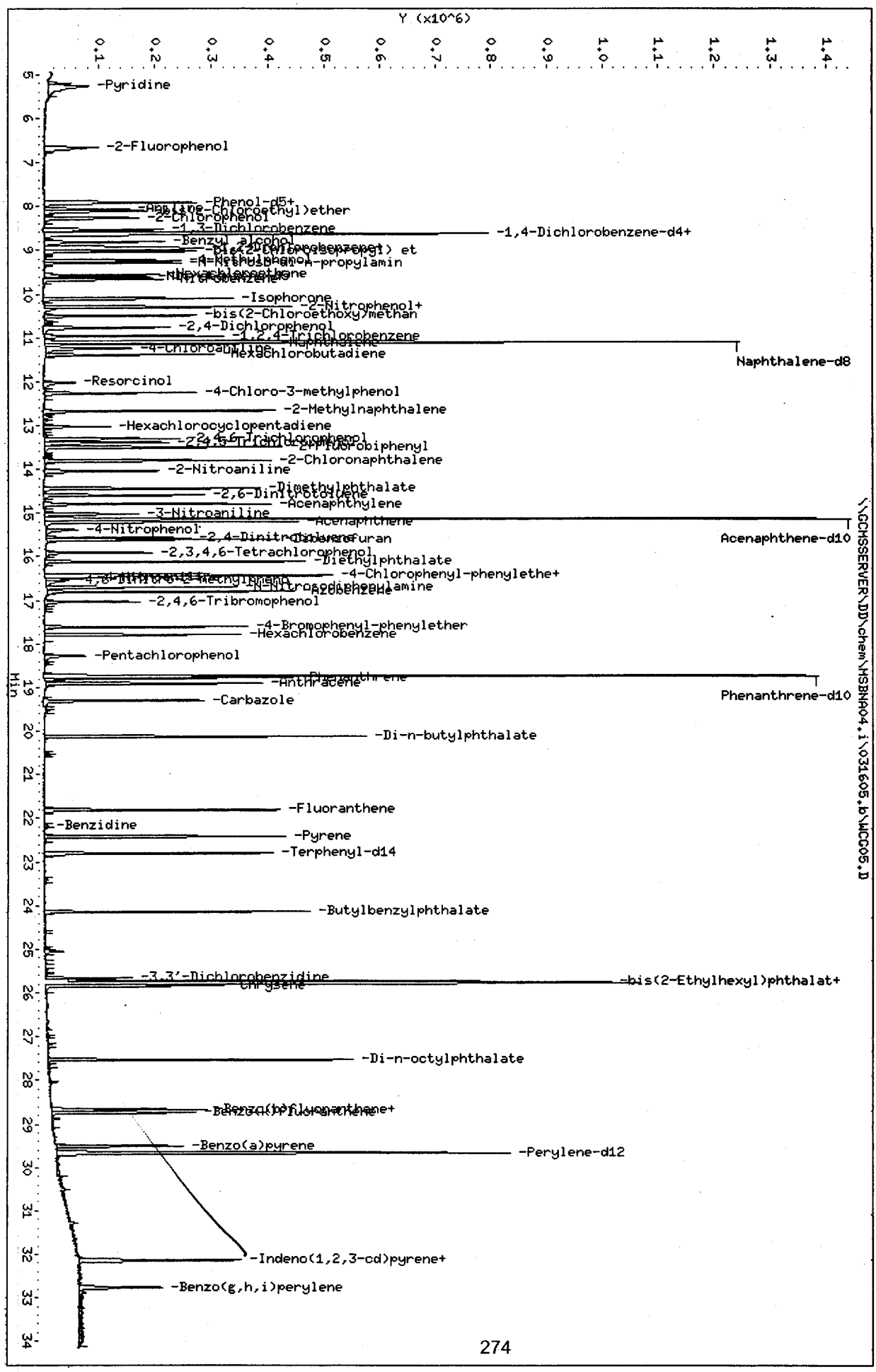
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 76 Chrysene-d12	240	25.779	25.807	(1.000)	786819	40.0000	
77 Chrysene	228	25.843	25.880	(1.002)	248954	10.0000	10.2400
78 Di-n-octylphthalate	149	27.531	27.559	(0.928)	478310	10.0000	9.8041
79 Benzo(b)fluoranthene	252	28.669	28.697	(0.966)	260542	10.0000	9.5940(M)
80 Benzo(k)fluoranthene	252	28.742	28.770	(0.969)	250221	10.0000	10.0448(A)
81 Benzo(a)pyrene	252	29.504	29.541	(0.994)	216329	10.0000	9.9948
* 82 Perylene-d12	264	29.669	29.678	(1.000)	718471	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	32.127	32.164	(1.083)	203047	10.0000	11.1735
84 Dibenz(a,h)anthracene	276	32.146	32.174	(1.083)	160360	10.0000	10.8383
85 Benzo(g,h,i)perylene	276	32.769	32.796	(1.105)	161376	10.0000	11.2098

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCC05.D
Date : 16-MAR-2006 14:45
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2580
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG06.D
Report Date: 17-Mar-2006 10:20

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG06.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 16-MAR-2006 15:30 MS Autotune Date: 12-DEC-2005 12:21
Operator : LLH Inst ID: MSBNA04.i
Smp Info : ICAL,S2581
Misc Info : 20ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\6PTBNA4.m
Meth Date : 17-Mar-2006 10:20 target Quant Type: ISTD
Cal Date : 16-MAR-2006 15:30 Cal File: WCG06.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 Pyridine	79	5.258	5.258	(0.610)	256959	20.0000	19.2056(M)
	2 N-Nitrosodimethylamine	74	5.203	5.203	(0.604)	176374	20.0000	20.3222
$	3 2-Fluorophenol	112	6.653	6.653	(0.772)	223895	20.0000	19.7058
$	4 Phenol-d5	99	7.900	7.909	(0.917)	315269	20.0000	21.3165
	5 Phenol	94	7.928	7.928	(0.920)	328715	20.0000	21.5427
	6 Aniline	66	8.066	8.064	(0.936)	141333	20.0000	21.0411(Q)
	7 bis(2-Chloroethyl)ether	63	8.111	8.111	(0.941)	226923	20.0000	21.6486(Q)
	8 2-Chlorophenol	128	8.267	8.266	(0.960)	237016	20.0000	20.7056
	9 1,3-Dichlorobenzene	146	8.533	8.532	(0.990)	269935	20.0000	21.5956
*	10 1,4-Dichlorobenzene-d4	152	8.616	8.616	(1.000)	326744	40.0000	
	11 1,4-Dichlorobenzene	146	8.653	8.651	(1.004)	252257	20.0000	21.3686
	12 1,2-Dichlorobenzene	146	8.928	8.928	(1.036)	261350	20.0000	22.3398
	13 Benzyl alcohol	108	8.809	8.818	(1.022)	186055	20.0000	20.3153
	14 2-Methylphenol	107	8.965	8.973	(1.040)	217101	20.0000	22.0302
	15 bis(2-Chloroisopropyl) ether	45	9.029	9.029	(1.048)	497037	20.0000	17.8888
	16 4-Methylphenol	107	9.240	9.258	(1.072)	331272	20.0000	20.8038
	17 N-Nitroso-di-n-propylamine	70	9.286	9.313	(1.078)	204080	20.0000	22.6938
	18 Hexachloroethane	117	9.561	9.561	(1.110)	117155	20.0000	22.3134
$	19 Nitrobenzene-d5	82	9.625	9.634	(0.867)	294899	20.0000	21.6812
	20 Nitrobenzene	77	9.662	9.671	(0.870)	283616	20.0000	22.6038

3/20/06

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG06.D
Report Date: 17-Mar-2006 10:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	10.111	10.139	(0.911)	652760	20.0000	21.8400
	22 2-Nitrophenol	139	10.295	10.295	(0.927)	133853	20.0000	21.0264
	23 2,4-Dimethylphenol	122	10.304	10.313	(0.928)	212353	20.0000	21.8977
	24 bis(2-Chloroethoxy)methane	93	10.497	10.515	(0.945)	368716	20.0000	19.2112
	25 2,4-Dichlorophenol	162	10.772	10.781	(0.970)	207563	20.0000	20.9446
	26 Benzoic acid	122	10.460	10.533	(0.942)	8720	20.0000	32.5607(Q)
	27 1,2,4-Trichlorobenzene	180	10.964	10.973	(0.988)	235242	20.0000	22.3543
*	28 Naphthalene-d8	136	11.102	11.111	(1.000)	1209048	40.0000	
	29 Naphthalene	128	11.148	11.157	(1.004)	666741	20.0000	21.5414
	30 4-Chloroaniline	127	11.240	11.239	(1.012)	266360	20.0000	19.8206
	31 Hexachlorobutadiene	225	11.386	11.395	(1.026)	139703	20.0000	22.0911
	32 Resorcinol	110	12.029	12.037	(1.083)	118619	20.0000	19.3474(A)
	33 4-Chloro-3-methylphenol	107	12.258	12.276	(1.104)	261811	20.0000	21.8853
	34 2-Methylnaphthalene	142	12.671	12.680	(1.141)	513060	20.0000	21.9899
	35 Hexachlorocyclopentadiene	237	13.029	13.037	(0.861)	86986	20.0000	18.3218
	36 2,4,6-Trichlorophenol	196	13.313	13.322	(0.879)	154826	20.0000	20.8657
	37 2,4,5-Trichlorophenol	196	13.396	13.404	(0.885)	164720	20.0000	20.7353
$	38 2-Fluorobiphenyl	172	13.506	13.514	(0.892)	539305	20.0000	22.8983
	39 2-Chloronaphthalene	162	13.808	13.817	(0.912)	502808	20.0000	22.5923
	40 2-Nitroaniline	65	14.047	14.065	(0.928)	175914	20.0000	21.6753(a)
	41 Dimethylphthalate	163	14.450	14.469	(0.955)	647978	20.0000	22.5559
	42 2,6-Dinitrotoluene	165	14.606	14.624	(0.965)	155169	20.0000	20.6713
	43 Acenaphthylene	152	14.799	14.808	(0.978)	795401	20.0000	22.4340
	44 3-Nitroaniline	138	15.019	15.046	(0.992)	122855	20.0000	18.6308(a)
*	45 Acenaphthene-d10	164	15.138	15.138	(1.000)	755517	40.0000	
	46 Acenaphthene	154	15.212	15.230	(1.005)	437067	20.0000	22.1920
	47 2,4-Dinitrophenol	184	15.276	15.285	(1.009)	10256	20.0000	26.3399
	48 4-Nitrophenol	109	15.386	15.413	(1.016)	51188	20.0000	19.7777(a)
	49 Dibenzofuran	168	15.625	15.634	(1.032)	655102	20.0000	21.3663
	50 2,4-Dinitrotoluene	165	15.579	15.606	(1.029)	199436	20.0000	22.0975
	51 2,3,4,6-Tetrachlorophenol	232	15.909	15.927	(1.051)	125209	20.0000	19.6139(A)
	52 Diethylphthalate	149	16.129	16.155	(1.065)	624301	20.0000	23.1186
	53 4-Chlorophenyl-phenylether	204	16.423	16.440	(1.085)	289573	20.0000	17.9376
	54 Fluorene	166	16.450	16.468	(1.087)	517641	20.0000	17.4168
	55 4-Nitroaniline	138	16.505	16.542	(1.090)	95586	20.0000	17.4773(a)
	56 4,6-Dinitro-2-methylphenol	198	16.560	16.588	(0.884)	38579	20.0000	19.7746(a)
	57 N-Nitrosodiphenylamine	169	16.707	16.734	(0.891)	335771	20.0000	22.4914
	58 Azobenzene	77	16.808	16.826	(0.897)	683885	20.0000	18.8601
$	59 2,4,6-Tribromophenol	330	17.037	17.046	(1.125)	105830	20.0000	21.1724
	60 4-Bromophenyl-phenylether	248	17.615	17.633	(0.940)	184109	20.0000	22.8184
	61 Hexachlorobenzene	284	17.799	17.817	(0.950)	205921	20.0000	23.4370
	62 Pentachlorophenol	266	18.276	18.285	(0.975)	74241	20.0000	18.0122(a)
*	63 Phenanthrene-d10	188	18.744	18.753	(1.000)	1159092	40.0000	
	64 Phenanthrene	178	18.799	18.817	(1.003)	719292	20.0000	22.2464
	65 Anthracene	178	18.918	18.936	(1.009)	712321	20.0000	21.9878
	66 Carbazole	167	19.303	19.321	(1.030)	570543	20.0000	20.8652
	67 Di-n-butylphthalate	149	20.129	20.138	(1.074)	1154040	20.0000	19.6732
	68 Fluoranthene	202	21.817	21.835	(1.164)	819579	20.0000	22.2476
	69 Benzidine	184	22.165	22.165	(0.859)	40678	20.0000	16.1693
	70 Pyrene	202	22.432	22.450	(0.870)	822995	20.0000	20.8327
$	71 Terphenyl-d14	244	22.817	22.835	(0.885)	580860	20.0000	21.7768
	72 Butylbenzylphthalate	149	24.147	24.165	(0.936)	472197	20.0000	21.6562
	73 bis(2-Ethylhexyl)phthalate	149	25.752	25.770	(0.999)	602200	20.0000	20.9885
	74 3,3'-Dichlorobenzidine	252	25.670	25.688	(0.995)	189651	20.0000	18.7720

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG06.D
Report Date: 17-Mar-2006 10:20

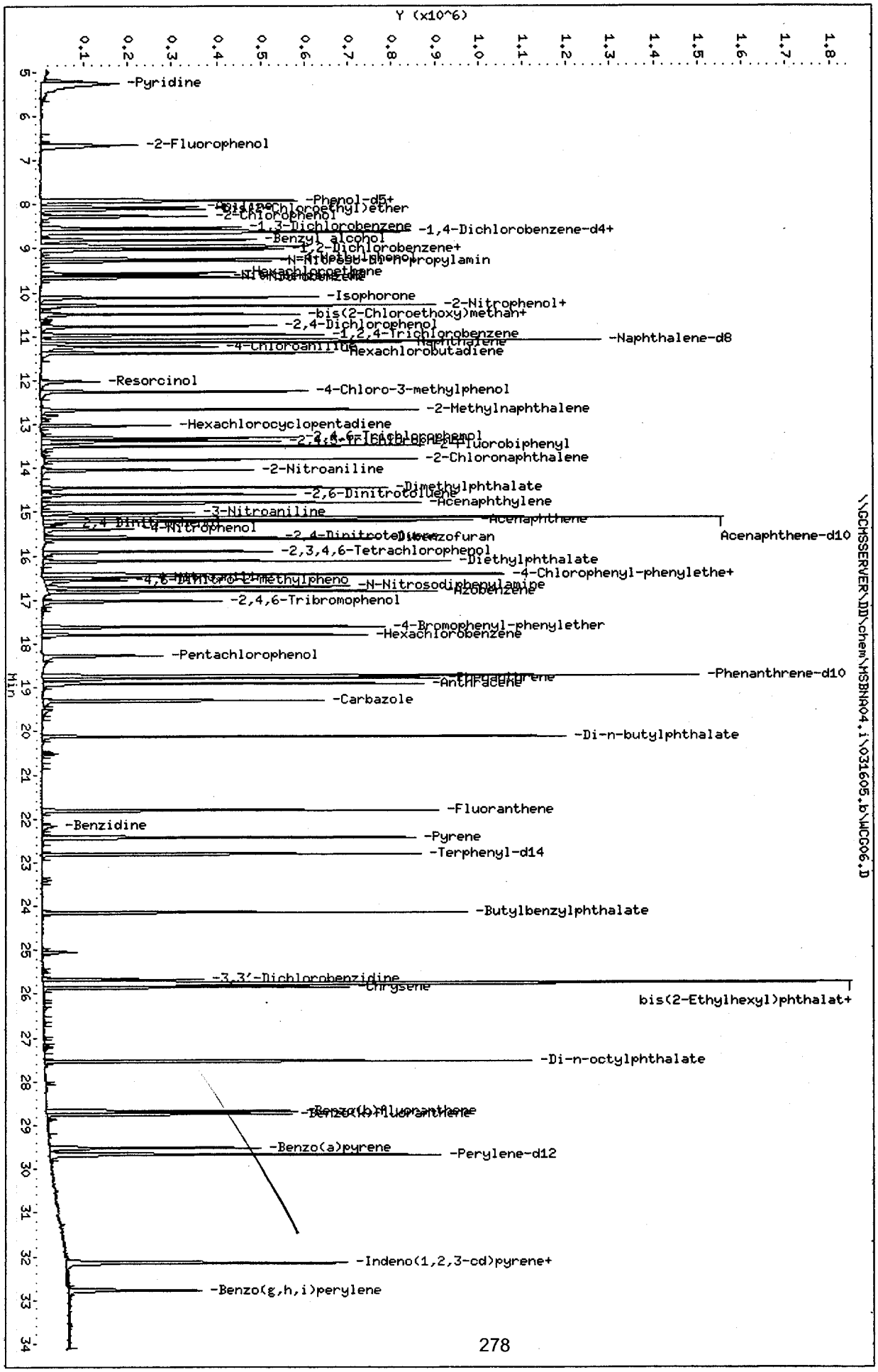
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Benzo(a)anthracene	228	25.743	25.761	(0.998)	648914	20.0000	21.5508
* 76 Chrysene-d12	240	25.789	25.807	(1.000)	839278	40.0000	
77 Chrysene	228	25.853	25.880	(1.002)	547680	20.0000	21.1192
78 Di-n-octylphthalate	149	27.541	27.559	(0.928)	1016437	20.0000	19.4995
79 Benzo(b)fluoranthene	252	28.679	28.697	(0.967)	537992	20.0000	18.5414
80 Benzo(k)fluoranthene	252	28.752	28.770	(0.969)	553176	20.0000	20.7839(A)
81 Benzo(a)pyrene	252	29.523	29.541	(0.995)	474585	20.0000	20.5219
* 82 Perylene-d12	264	29.670	29.678	(1.000)	767652	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	32.146	32.164	(1.083)	450450	20.0000	23.1999
84 Dibenz(a,h)anthracene	278	32.156	32.174	(1.084)	367077	20.0000	23.2204
85 Benzo(g,h,i)perylene	276	32.779	32.796	(1.105)	350683	20.0000	22.7992

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG06.D
Date : 16-MAR-2006 15:30
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2581
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG07.D
Report Date: 17-Mar-2006 10:20

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG07.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 16-MAR-2006 16:15 MS Autotune Date: 12-DEC-2005 12:21
Operator : LLH Inst ID: MSBNA04.i
Smp Info : ICAL,S2582
Misc Info : 50ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\6PTBNA4.m
Meth Date : 17-Mar-2006 10:20 target Quant Type: ISTD
Cal Date : 16-MAR-2006 16:15 Cal File: WCG07.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	5.258	5.258	(0.610)	712477	50.0000	50.4373
2 N-Nitrosodimethylamine	74	5.203	5.203	(0.604)	463730	50.0000	50.6080
$ 3 2-Fluorophenol	112	6.652	6.652	(0.772)	598860	50.0000	49.9223
$ 4 Phenol-d5	99	7.909	7.909	(0.918)	816532	50.0000	52.2910
5 Phenol	94	7.927	7.927	(0.920)	852747	50.0000	52.9320
6 Aniline	66	8.065	8.065	(0.936)	381256	50.0000	53.7600(Q)
7 bis(2-Chloroethyl)ether	63	8.111	8.111	(0.941)	574454	50.0000	51.9067(Q)
8 2-Chlorophenol	128	8.267	8.267	(0.960)	621966	50.0000	51.4630
9 1,3-Dichlorobenzene	146	8.533	8.533	(0.990)	693244	50.0000	52.5305
* 10 1,4-Dichlorobenzene-d4	152	8.615	8.615	(1.000)	344977	40.0000	
11 1,4-Dichlorobenzene	146	8.652	8.652	(1.004)	663326	50.0000	53.2203
12 1,2-Dichlorobenzene	146	8.927	8.927	(1.036)	640505	50.0000	51.8559
13 Benzyl alcohol	108	8.817	8.817	(1.023)	497994	50.0000	51.5020
14 2-Methylphenol	107	8.973	8.973	(1.042)	540000	50.0000	51.9001
15 bis(2-Chloroisopropyl) ether	45	9.028	9.028	(1.048)	1193061	50.0000	48.6796
16 4-Methylphenol	107	9.257	9.257	(1.075)	848014	50.0000	50.4404
17 N-Nitroso-di-n-propylamine	70	9.312	9.312	(1.081)	493079	50.0000	51.9327
18 Hexachloroethane	117	9.560	9.560	(1.110)	289748	50.0000	52.2689
$ 19 Nitrobenzene-d5	82	9.634	9.634	(0.867)	746740	50.0000	51.6192
20 Nitrobenzene	77	9.670	9.670	(0.870)	701340	50.0000	52.5547

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG07.D
Report Date: 17-Mar-2006 10:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	10.138	10.138	(0.912)	1620959	50.0000	50.9921
	22 2-Nitrophenol	139	10.294	10.294	(0.927)	355311	50.0000	52.4781
	23 2,4-Dimethylphenol	122	10.312	10.312	(0.928)	545890	50.0000	52.9269
	24 bis(2-Chloroethoxy)methane	93	10.514	10.514	(0.946)	909488	50.0000	49.7982
	25 2,4-Dichlorophenol	162	10.780	10.780	(0.970)	552792	50.0000	52.4464
	26 Benzoic acid	122	10.533	10.533	(0.948)	155208	50.0000	48.7633
	27 1,2,4-Trichlorobenzene	180	10.973	10.973	(0.988)	600612	50.0000	53.6626
*	28 Naphthalene-d8	136	11.110	11.110	(1.000)	1285915	40.0000	
	29 Naphthalene	128	11.156	11.156	(1.004)	1664753	50.0000	50.5707
	30 4-Chloroaniline	127	11.239	11.239	(1.012)	803726	50.0000	56.2325
	31 Hexachlorobutadiene	225	11.395	11.395	(1.026)	364198	50.0000	54.1477
	32 Resorcinol	110	12.037	12.037	(1.083)	407647	50.0000	46.0378(A)
	33 4-Chloro-3-methylphenol	107	12.276	12.276	(1.105)	650571	50.0000	51.1318
	34 2-Methylnaphthalene	142	12.679	12.679	(1.141)	1241459	50.0000	50.0287
	35 Hexachlorocyclopentadiene	237	13.037	13.037	(0.861)	271055	50.0000	55.7893
	36 2,4,6-Trichlorophenol	196	13.321	13.321	(0.880)	405875	50.0000	53.4509
	37 2,4,5-Trichlorophenol	196	13.404	13.404	(0.885)	442946	50.0000	54.4866
$	38 2-Fluorobiphenyl	172	13.514	13.514	(0.893)	1309811	50.0000	54.3441
	39 2-Chloronaphthalene	162	13.817	13.817	(0.913)	1242843	50.0000	54.5694
	40 2-Nitroaniline	65	14.064	14.064	(0.929)	426092	50.0000	51.3031
	41 Dimethylphthalate	163	14.468	14.468	(0.956)	1576500	50.0000	53.6251
	42 2,6-Dinitrotoluene	165	14.624	14.624	(0.966)	390508	50.0000	50.8356
	43 Acenaphthylene	152	14.807	14.807	(0.978)	1857807	50.0000	51.2030
	44 3-Nitroaniline	138	15.046	15.046	(0.994)	341061	50.0000	50.5413
*	45 Acenaphthene-d10	164	15.138	15.138	(1.000)	773161	40.0000	
	46 Acenaphthene	154	15.229	15.229	(1.006)	1040513	50.0000	51.6263
	47 2,4-Dinitrophenol	184	15.284	15.284	(1.010)	112490	50.0000	45.9595
	48 4-Nitrophenol	109	15.413	15.413	(1.018)	164829	50.0000	48.9379
	49 Dibenzofuran	168	15.633	15.633	(1.033)	1587019	50.0000	50.5799
	50 2,4-Dinitrotoluene	165	15.606	15.606	(1.031)	485967	50.0000	52.6165
	51 2,3,4,6-Tetrachlorophenol	232	15.927	15.927	(1.052)	357093	50.0000	54.6620(A)
	52 Diethylphthalate	149	16.156	16.156	(1.067)	1469121	50.0000	53.1618
	53 4-Chlorophenyl-phenylether	204	16.440	16.440	(1.086)	680396	50.0000	52.1344
	54 Fluorene	166	16.468	16.468	(1.088)	1191218	50.0000	49.4981
	55 4-Nitroaniline	138	16.541	16.541	(1.093)	287000	50.0000	51.2786
	56 4,6-Dinitro-2-methylphenol	198	16.587	16.587	(0.885)	184091	50.0000	45.7989
	57 N-Nitrosodiphenylamine	169	16.734	16.734	(0.892)	816783	50.0000	53.4223
	58 Azobenzene	77	16.826	16.826	(0.897)	1562368	50.0000	50.9622
$	59 2,4,6-Tribromophenol	330	17.046	17.046	(1.126)	283114	50.0000	55.3474
	60 4-Bromophenyl-phenylether	248	17.633	17.633	(0.940)	445765	50.0000	53.9459
	61 Hexachlorobenzene	284	17.816	17.816	(0.950)	487560	50.0000	54.1841
	62 Pentachlorophenol	266	18.284	18.284	(0.975)	262928	50.0000	50.6020
*	63 Phenanthrene-d10	188	18.752	18.752	(1.000)	1187071	40.0000	
	64 Phenanthrene	178	18.816	18.816	(1.003)	1732637	50.0000	52.3244
	65 Anthracene	178	18.936	18.936	(1.010)	1752844	50.0000	52.8313
	66 Carbazole	167	19.321	19.321	(1.030)	1494253	50.0000	53.3581
	67 Di-n-butylphthalate	149	20.137	20.137	(1.074)	2605469	50.0000	52.5503
	68 Fluoranthene	202	21.834	21.834	(1.164)	1965635	50.0000	52.0998
	69 Benzidine	184	22.165	22.165	(0.859)	237102	50.0000	55.8546
	70 Pyrene	202	22.449	22.449	(0.870)	1993516	50.0000	49.6997
$	71 Terphenyl-d14	244	22.834	22.834	(0.885)	1406456	50.0000	51.9320
	72 Butylbenzylphthalate	149	24.165	24.165	(0.936)	1143433	50.0000	51.6483
	73 bis(2-Ethylhexyl)phthalate	149	25.770	25.770	(0.999)	1311512	50.0000	52.4698
	74 3,3'-Dichlorobenzidine	252	25.687	25.687	(0.995)	562810	50.0000	54.8659

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG07.D
Report Date: 17-Mar-2006 10:20

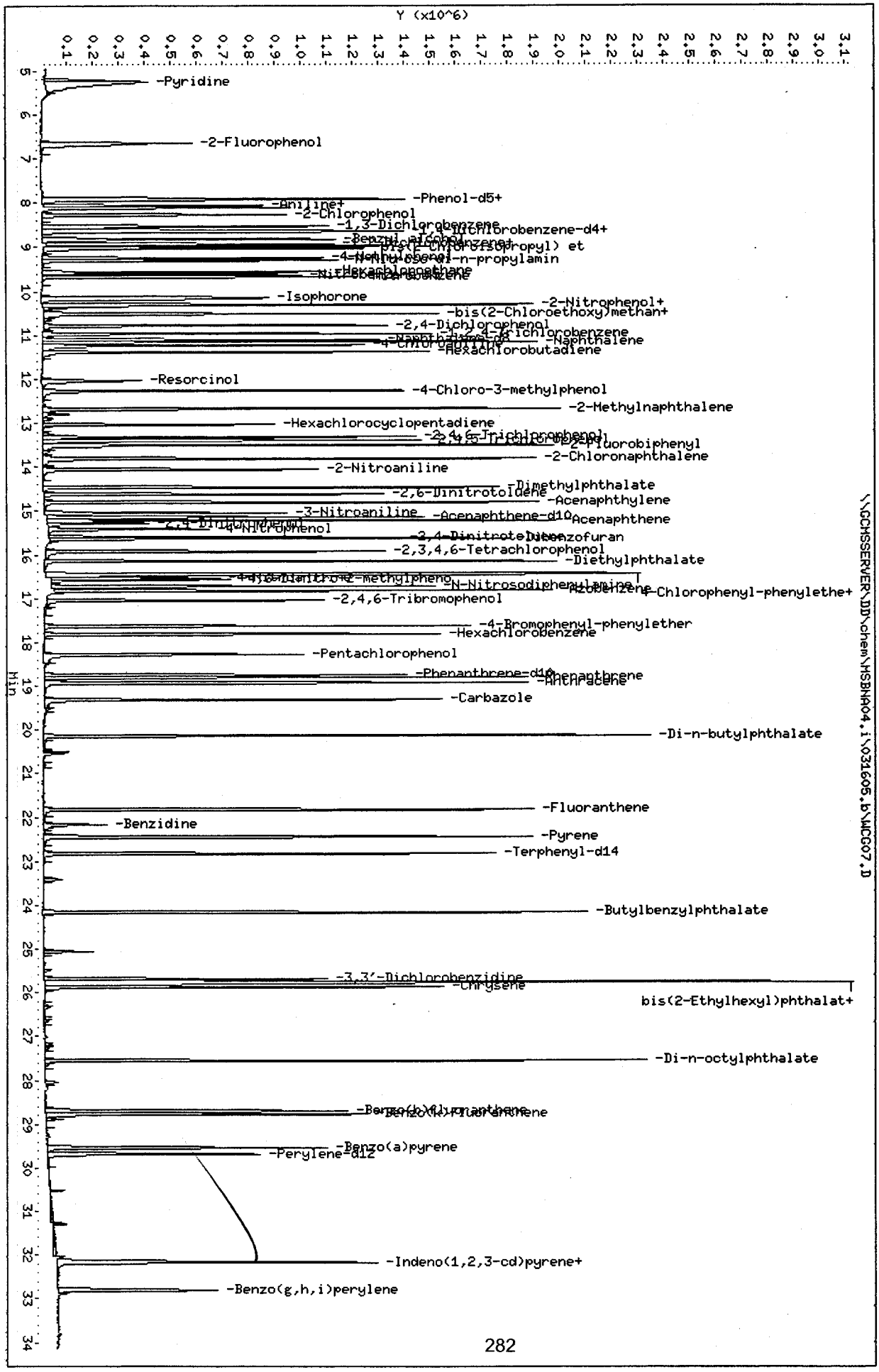
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Benzo(a)anthracene	228	25.761	25.761	(0.998)	1492083	50.0000	48.8038
* 76 Chrysene-d12	240	25.807	25.807	(1.000)	852160	40.0000	
77 Chrysene	228	25.880	25.880	(1.003)	1344836	50.0000	51.0746
78 Di-n-octylphthalate	149	27.559	27.559	(0.929)	2434224	50.0000	48.9401
79 Benzo(b)fluoranthene	252	28.696	28.696	(0.967)	1343267	50.0000	48.5167
80 Benzo(k)fluoranthene	252	28.770	28.770	(0.969)	1256535	50.0000	49.4764(A)
81 Benzo(a)pyrene	252	29.540	29.540	(0.995)	1123423	50.0000	50.9106
* 82 Perylene-d12	264	29.678	29.678	(1.000)	732494	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	32.164	32.164	(1.084)	939591	50.0000	50.7154
84 Dibenz(a,h)anthracene	278	32.173	32.173	(1.084)	772179	50.0000	51.1907
85 Benzo(g,h,i)perylene	276	32.797	32.797	(1.105)	732830	50.0000	49.9309

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG07.D
Date : 16-MAR-2006 16:15
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2582
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG08.D
Report Date: 17-Mar-2006 10:20

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG08.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 16-MAR-2006 16:59 MS Autotune Date: 12-DEC-2005 12:21
Operator : LLH Inst ID: MSBNA04.i
Smp Info : ICAL,S2583
Misc Info : 80ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\6PTBNA4.m
Meth Date : 17-Mar-2006 10:20 target Quant Type: ISTD
Cal Date : 16-MAR-2006 16:59 Cal File: WCG08.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	5.262	5.258	(0.610)	1181212	80.0000	79.8250(Q)
2 N-Nitrosodimethylamine	74	5.207	5.203	(0.603)	748772	80.0000	78.0070(Q)
$ 3 2-Fluorophenol	112	6.665	6.652	(0.772)	998211	80.0000	79.4367(Q)
$ 4 Phenol-d5	99	7.922	7.909	(0.918)	1307149	80.0000	79.9114(Q)
5 Phenol	94	7.950	7.927	(0.921)	1350676	80.0000	80.0348(Q)
6 Aniline	66	8.078	8.065	(0.936)	585349	80.0000	78.7929(Q)
7 bis(2-Chloroethyl)ether	63	8.124	8.111	(0.942)	869347	80.0000	74.9879(Q)
8 2-Chlorophenol	128	8.280	8.267	(0.960)	1007767	80.0000	79.6009(Q)
9 1,3-Dichlorobenzene	146	8.537	8.533	(0.989)	1091749	80.0000	78.9728(Q)
* 10 1,4-Dichlorobenzene-d4	152	8.628	8.615	(1.000)	361377	40.0000	(Q)
11 1,4-Dichlorobenzene	146	8.656	8.652	(1.003)	1053438	80.0000	80.6843(Q)
12 1,2-Dichlorobenzene	146	8.940	8.927	(1.036)	1030481	80.0000	79.6426(Q)
13 Benzyl alcohol	108	8.839	8.817	(1.024)	806285	80.0000	79.6010(Q)
14 2-Methylphenol	107	8.986	8.973	(1.041)	866009	80.0000	79.4560(Q)
15 bis(2-Chloroisopropyl) ether	45	9.041	9.028	(1.048)	1769591	80.0000	85.2238
16 4-Methylphenol	107	9.271	9.257	(1.074)	1397297	80.0000	79.3404(QM)
17 N-Nitroso-di-n-propylamine	70	9.335	9.312	(1.082)	773512	80.0000	77.7716(Q)
18 Hexachloroethane	117	9.564	9.560	(1.108)	462852	80.0000	79.7067(Q)
$ 19 Nitrobenzene-d5	82	9.647	9.634	(0.868)	1207055	80.0000	79.2811(Q)
20 Nitrobenzene	77	9.683	9.670	(0.871)	1112224	80.0000	79.1910(Q)

3/20/06

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG08.D
Report Date: 17-Mar-2006 10:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	10.206	10.138	(0.918)	2659214	80.0000	79.4849(M)
	22 2-Nitrophenol	139	10.307	10.294	(0.927)	581643	80.0000	81.6256(Q)
	23 2,4-Dimethylphenol	122	10.335	10.312	(0.930)	835718	80.0000	76.9896(Q)
	24 bis(2-Chloroethoxy)methane	93	10.527	10.514	(0.947)	1374945	80.0000	80.1247(Q)
	25 2,4-Dichlorophenol	162	10.793	10.780	(0.971)	895335	80.0000	80.7124(Q)
	26 Benzoic acid	122	10.619	10.533	(0.955)	436669	80.0000	77.5970(Q)
	27 1,2,4-Trichlorobenzene	180	10.977	10.973	(0.988)	947437	80.0000	80.4319(Q)
*	28 Naphthalene-d8	136	11.114	11.110	(1.000)	1353355	40.0000	
	29 Naphthalene	128	11.170	11.156	(1.005)	2515305	80.0000	72.6006
	30 4-Chloroaniline	127	11.252	11.239	(1.012)	1244526	80.0000	82.7339(Q)
	31 Hexachlorobutadiene	225	11.399	11.395	(1.026)	569215	80.0000	80.4117(Q)
	32 Resorcinol	110	12.059	12.037	(1.085)	784902	80.0000	78.1002(A)
	33 4-Chloro-3-methylphenol	107	12.289	12.276	(1.106)	1062985	80.0000	79.3824(Q)
	34 2-Methylnaphthalene	142	12.692	12.679	(1.142)	1901589	80.0000	72.8122(Q)
	35 Hexachlorocyclopentadiene	237	13.041	13.037	(0.861)	447668	80.0000	88.0367(Q)
	36 2,4,6-Trichlorophenol	196	13.335	13.321	(0.880)	654038	80.0000	82.2963(Q)
	37 2,4,5-Trichlorophenol	196	13.417	13.404	(0.886)	718548	80.0000	84.4518(Q)
$	38 2-Fluorobiphenyl	172	13.527	13.514	(0.893)	2019268	80.0000	80.0483(Q)
	39 2-Chloronaphthalene	162	13.830	13.817	(0.913)	1899439	80.0000	79.6843(Q)
	40 2-Nitroaniline	65	14.087	14.064	(0.930)	684942	80.0000	78.7967(Q)
	41 Dimethylphthalate	163	14.500	14.468	(0.957)	2463114	80.0000	80.0522
	42 2,6-Dinitrotoluene	165	14.646	14.624	(0.967)	639183	80.0000	79.5019(Q)
	43 Acenaphthylene	152	14.821	14.807	(0.978)	2929181	80.0000	77.1356
	44 3-Nitroaniline	138	15.068	15.046	(0.995)	590007	80.0000	83.5384(Q)
*	45 Acenaphthene-d10	164	15.151	15.138	(1.000)	809200	40.0000	(Q)
	46 Acenaphthene	154	15.243	15.229	(1.006)	1623866	80.0000	76.9817(Q)
	47 2,4-Dinitrophenol	184	15.307	15.284	(1.010)	270312	80.0000	74.0022(Q)
	48 4-Nitrophenol	109	15.444	15.413	(1.019)	296441	80.0000	78.3294(Q)
	49 Dibenzofuran	168	15.646	15.633	(1.033)	2355556	80.0000	71.7305(Q)
	50 2,4-Dinitrotoluene	165	15.628	15.606	(1.031)	736358	80.0000	76.1760(Q)
	51 2,3,4,6-Tetrachlorophenol	232	15.940	15.927	(1.052)	584062	80.0000	85.4235(AQ)
	52 Diethylphthalate	149	16.178	16.156	(1.068)	2261778	80.0000	78.2000
	53 4-Chlorophenyl-phenylether	204	16.454	16.440	(1.086)	989916	80.0000	84.7951(Q)
	54 Fluorene	166	16.481	16.468	(1.088)	1774070	80.0000	84.1476(Q)
	55 4-Nitroaniline	138	16.582	16.541	(1.094)	491691	80.0000	83.9384(Q)
	56 4,6-Dinitro-2-methylphenol	198	16.619	16.587	(0.886)	375819	80.0000	75.7698(Q)
	57 N-Nitrosodiphenylamine	169	16.747	16.734	(0.893)	1290562	80.0000	78.7455(Q)
	58 Azobenzene	77	16.839	16.826	(0.898)	2299485	80.0000	79.9278
$	59 2,4,6-Tribromophenol	330	17.068	17.046	(1.127)	447790	80.0000	83.6420(Q)
	60 4-Bromophenyl-phenylether	248	17.646	17.633	(0.941)	687753	80.0000	77.6455(Q)
	61 Hexachlorobenzene	284	17.830	17.816	(0.951)	751784	80.0000	77.9414(Q)
	62 Pentachlorophenol	266	18.297	18.284	(0.976)	477553	80.0000	82.4389(Q)
*	63 Phenanthrene-d10	188	18.756	18.752	(1.000)	1272464	40.0000	
	64 Phenanthrene	178	18.830	18.816	(1.004)	2666306	80.0000	75.1169
	65 Anthracene	178	18.958	18.936	(1.011)	2708147	80.0000	76.1467
	66 Carbazole	167	19.334	19.321	(1.031)	2403093	80.0000	80.0531
	67 Di-n-butylphthalate	149	20.151	20.137	(1.074)	3866960	80.0000	81.7653
	68 Fluoranthene	202	21.848	21.834	(1.165)	3069410	80.0000	75.8961
	69 Benzidine	184	22.169	22.165	(0.859)	347041	80.0000	77.0932
	70 Pyrene	202	22.462	22.449	(0.870)	3108580	80.0000	76.3485
$	71 Terphenyl-d14	244	22.848	22.834	(0.885)	2118460	80.0000	77.0607
	72 Butylbenzylphthalate	149	24.178	24.165	(0.936)	1739400	80.0000	77.4014(Q)
	73 bis(2-Ethylhexyl)phthalate	149	25.783	25.770	(0.999)	1854451	80.0000	77.4003(Q)
	74 3,3'-Dichlorobenzidine	252	25.710	25.687	(0.996)	905589	80.0000	86.9713(Q)

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG08.D
Report Date: 17-Mar-2006 10:20

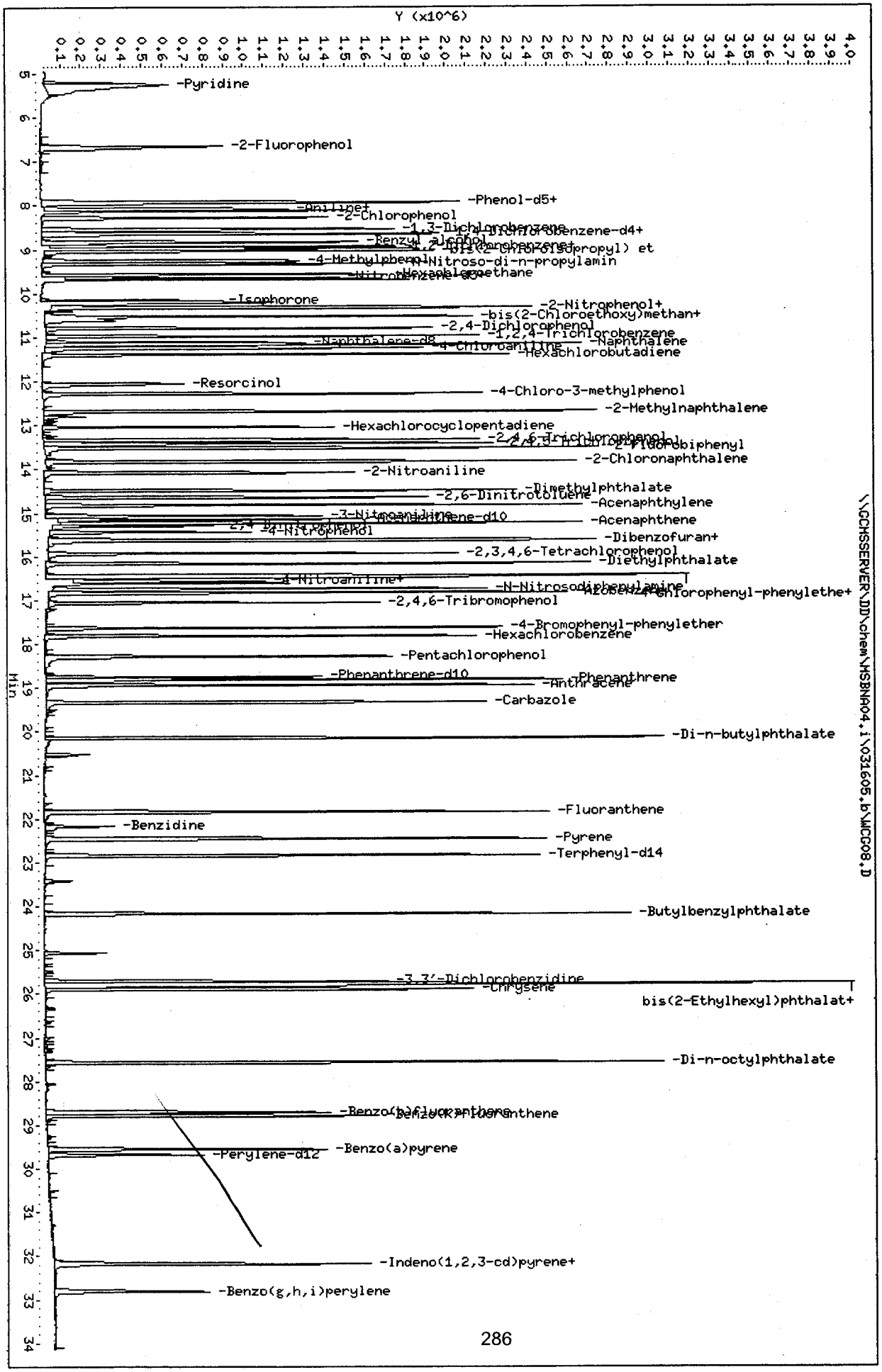
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Benzo(a)anthracene	228	25.783	25.761	(0.999)	2149771	80.0000	69.2719
* 76 Chrysene-d12	240	25.820	25.807	(1.000)	865002	40.0000	
77 Chrysene	228	25.902	25.880	(1.003)	2096643	80.0000	78.4449
78 Di-n-octylphthalate	149	27.572	27.559	(0.929)	3601207	80.0000	79.9581
79 Benzo(b)fluoranthene	252	28.719	28.696	(0.968)	1942203	80.0000	77.4701
80 Benzo(k)fluoranthene	252	28.792	28.770	(0.970)	1865752	80.0000	81.1313(A)
81 Benzo(a)pyrene	252	29.553	29.540	(0.996)	1574488	80.0000	78.7979
* 82 Perylene-d12	264	29.682	29.678	(1.000)	663275	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	32.168	32.164	(1.084)	1224962	80.0000	73.0187
84 Dibenz(a,h)anthracene	278	32.186	32.173	(1.084)	1020705	80.0000	74.7281
85 Benzo(g,h,i)perylene	276	32.810	32.797	(1.105)	954653	80.0000	71.8327

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCC08.D
Date : 16-MAR-2006 16:59
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2583
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG09.D
Report Date: 17-Mar-2006 10:21

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG09.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 16-MAR-2006 17:43 MS Autotune Date: 12-DEC-2005 12:21
Operator : LLH Inst ID: MSBNA04.i
Smp Info : ICAL,S2584
Misc Info : 100ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\6PTBNA4.m
Meth Date : 17-Mar-2006 10:20 target Quant Type: ISTD
Cal Date : 16-MAR-2006 17:43 Cal File: WCG09.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	5.265	5.258	(0.610)	1740880	100.000	103.1378
2 N-Nitrosodimethylamine	74	5.209	5.203	(0.604)	1108266	100.000	101.2199
$ 3 2-Fluorophenol	112	6.659	6.652	(0.772)	1458226	100.000	101.7329
$ 4 Phenol-d5	99	7.934	7.909	(0.919)	1849849	100.000	99.1420
5 Phenol	94	7.962	7.927	(0.922)	1844828	100.000	95.8344
6 Aniline	66	8.090	8.065	(0.937)	832334	100.000	98.2217
7 bis(2-Chloroethyl)ether	63	8.136	8.111	(0.943)	1148791	100.000	86.8714
8 2-Chlorophenol	128	8.283	8.267	(0.960)	1433690	100.000	99.2776
9 1,3-Dichlorobenzene	146	8.539	8.533	(0.989)	1524548	100.000	96.6793
* 10 1,4-Dichlorobenzene-d4	152	8.631	8.615	(1.000)	412214	40.0000	
11 1,4-Dichlorobenzene	146	8.659	8.652	(1.003)	1449725	100.000	97.3427
12 1,2-Dichlorobenzene	146	8.943	8.927	(1.036)	1433963	100.000	97.1586
13 Benzyl alcohol	108	8.861	8.817	(1.027)	1162956	100.000	100.6540
14 2-Methylphenol	107	8.989	8.973	(1.041)	1217742	100.000	97.9484
15 bis(2-Chloroisopropyl) ether	45	9.044	9.028	(1.048)	2218808	100.000	100.2017
16 4-Methylphenol	107	9.264	9.257	(1.073)	1993619	100.000	99.2397
17 N-Nitroso-di-n-propylamine	70	9.356	9.312	(1.084)	1063860	100.000	93.7727
18 Hexachloroethane	117	9.567	9.560	(1.108)	645607	100.000	97.4672
$ 19 Nitrobenzene-d5	82	9.659	9.634	(0.868)	1666459	100.000	98.3113
20 Nitrobenzene	77	9.695	9.670	(0.871)	1499057	100.000	95.8667

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG09.D
Report Date: 17-Mar-2006 10:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	10.246	10.138	(0.921)	3812269	100.000	102.3485
	22 2-Nitrophenol	139	10.319	10.294	(0.927)	821641	100.000	103.5663
	23 2,4-Dimethylphenol	122	10.347	10.312	(0.930)	1195153	100.000	98.8922
	24 bis(2-Chloroethoxy)methane	93	10.539	10.514	(0.947)	1852816	100.000	104.6091
	25 2,4-Dichlorophenol	162	10.815	10.780	(0.972)	1252514	100.000	101.4153
	26 Benzoic acid	122	10.695	10.533	(0.961)	775104	100.000	104.9747
	27 1,2,4-Trichlorobenzene	180	10.989	10.973	(0.988)	1257590	100.000	95.8922
*	28 Naphthalene-d8	136	11.126	11.110	(1.000)	1506765	40.0000	
	29 Naphthalene	128	11.182	11.156	(1.005)	3257393	100.000	84.4474
	30 4-Chloroaniline	127	11.273	11.239	(1.013)	1727632	100.000	103.1566
	31 Hexachlorobutadiene	225	11.402	11.395	(1.025)	744844	100.000	94.5093
	32 Resorcinol	110	12.081	12.037	(1.086)	1189668	100.000	103.6547(A)
	33 4-Chloro-3-methylphenol	107	12.301	12.276	(1.106)	1473002	100.000	98.8022
	34 2-Methylnaphthalene	142	12.704	12.679	(1.142)	2508425	100.000	86.2690
	35 Hexachlorocyclopentadiene	237	13.044	13.037	(0.861)	599456	100.000	102.8090
	36 2,4,6-Trichlorophenol	196	13.346	13.321	(0.881)	909683	100.000	99.8236
	37 2,4,5-Trichlorophenol	196	13.438	13.404	(0.887)	986576	100.000	101.1229
$	38 2-Fluorobiphenyl	172	13.530	13.514	(0.893)	2688322	100.000	92.9406
	39 2-Chloronaphthalene	162	13.842	13.817	(0.913)	2555639	100.000	93.5003
	40 2-Nitroaniline	65	14.099	14.064	(0.930)	981322	100.000	98.4537
	41 Dimethylphthalate	163	14.521	14.468	(0.958)	3303169	100.000	93.6236
	42 2,6-Dinitrotoluene	165	14.667	14.624	(0.968)	925503	100.000	100.3913
	43 Acenaphthylene	152	14.833	14.807	(0.979)	3820249	100.000	87.7337
	44 3-Nitroaniline	138	15.099	15.046	(0.996)	860523	100.000	106.2569
*	45 Acenaphthene-d10	164	15.154	15.138	(1.000)	927876	40.0000	
	46 Acenaphthene	154	15.255	15.229	(1.007)	2155094	100.000	89.0983
	47 2,4-Dinitrophenol	184	15.328	15.284	(1.012)	469890	100.000	99.6373
	48 4-Nitrophenol	109	15.475	15.413	(1.021)	456135	100.000	101.3639
	49 Dibenzofuran	168	15.667	15.633	(1.034)	2963730	100.000	78.7073
	50 2,4-Dinitrotoluene	165	15.649	15.606	(1.033)	897600	100.000	80.9800
	51 2,3,4,6-Tetrachlorophenol	232	15.952	15.927	(1.053)	833164	100.000	106.2710(A)
	52 Diethylphthalate	149	16.199	16.156	(1.069)	3001776	100.000	90.5109
	53 4-Chlorophenyl-phenylether	204	16.466	16.440	(1.087)	1249671	100.000	98.3466
	54 Fluorene	166	16.493	16.468	(1.088)	2272304	100.000	100.2119
	55 4-Nitroaniline	138	16.621	16.541	(1.097)	735122	100.000	109.4444
	56 4,6-Dinitro-2-methylphenol	198	16.649	16.587	(0.888)	597215	100.000	102.2346
	57 N-Nitrosodiphenylamine	169	16.768	16.734	(0.894)	1760597	100.000	95.9508
	58 Azobenzene	77	16.860	16.826	(0.899)	2987190	100.000	99.7674
$	59 2,4,6-Tribromophenol	330	17.080	17.046	(1.127)	604469	100.000	98.4669
	60 4-Bromophenyl-phenylether	248	17.649	17.633	(0.941)	921251	100.000	92.8973
	61 Hexachlorobenzene	284	17.842	17.816	(0.951)	1004644	100.000	93.0313
	62 Pentachlorophenol	266	18.309	18.284	(0.976)	680672	100.000	103.6537
*	63 Phenanthrene-d10	188	18.759	18.752	(1.000)	1424636	40.0000	
	64 Phenanthrene	178	18.841	18.816	(1.004)	3557123	100.000	89.5093
	65 Anthracene	178	18.970	18.936	(1.011)	3671567	100.000	92.2088
	66 Carbazole	167	19.355	19.321	(1.032)	3386869	100.000	100.7738
	67 Di-n-butylphthalate	149	20.162	20.137	(1.075)	4991006	100.000	99.9790
	68 Fluoranthene	202	21.860	21.834	(1.165)	4107195	100.000	90.7093
	69 Benzidine	184	22.181	22.165	(0.859)	479151	100.000	101.4257
	70 Pyrene	202	22.474	22.449	(0.870)	4162402	100.000	100.0443
$	71 Terphenyl-d14	244	22.850	22.834	(0.885)	2764578	100.000	98.4128
	72 Butylbenzylphthalate	149	24.190	24.165	(0.936)	2289761	100.000	99.7125
	73 bis(2-Ethylhexyl)phthalate	149	25.786	25.770	(0.998)	2371641	100.000	100.8823
	74 3,3'-Dichlorobenzidine	252	25.722	25.687	(0.996)	1144025	100.000	107.5203

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG09.D
Report Date: 17-Mar-2006 10:21

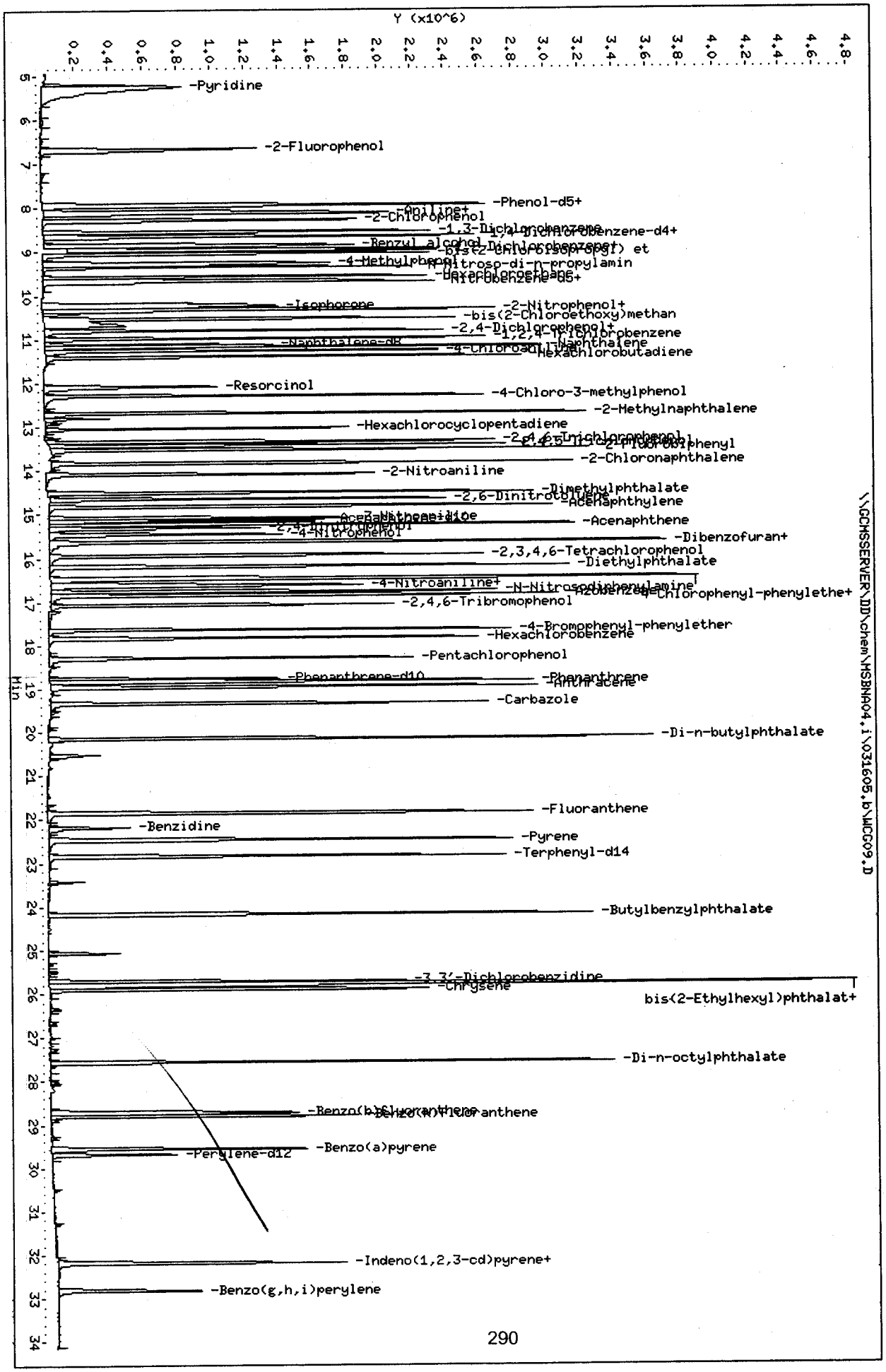
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Benzo(a)anthracene	228	25.804	25.761	(0.999)	2738908	100.000	86.3679
* 76 Chrysene-d12	240	25.832	25.807	(1.000)	883908	40.0000	
77 Chrysene	228	25.914	25.880	(1.003)	2694480	100.000	98.6564
78 Di-n-octylphthalate	149	27.575	27.559	(0.929)	4407490	100.000	105.4066
79 Benzo(b)fluoranthene	252	28.721	28.696	(0.968)	2451806	100.000	105.3385
80 Benzo(k)fluoranthene	252	28.804	28.770	(0.970)	2201874	100.000	103.1309(A)
81 Benzo(a)pyrene	252	29.565	29.540	(0.996)	1890956	100.000	101.9339
* 82 Perylene-d12	264	29.685	29.678	(1.000)	615789	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	32.180	32.164	(1.084)	1405590	100.000	90.2468
84 Dibenz(a,h)anthracene	278	32.189	32.173	(1.084)	1174370	100.000	92.6084
85 Benzo(g,h,i)perylene	276	32.822	32.797	(1.106)	1119597	100.000	90.7403

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCC09.D
Date : 16-MAR-2006 17:43
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2584
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG10.D
Report Date: 17-Mar-2006 10:21

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG10.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 16-MAR-2006 18:28 MS Autotune Date: 12-DEC-2005 12:21
Operator : LLH Inst ID: MSBNA04.i
Smp Info : ICAL,S2585
Misc Info : 120ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\6PTBNA4.m
Meth Date : 17-Mar-2006 10:21 target Quant Type: ISTD
Cal Date : 16-MAR-2006 18:28 Cal File: WCG10.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	5.267	5.258	(0.611)	2114710	120.000	124.5248
2 N-Nitrosodimethylamine	74	5.221	5.203	(0.605)	1337723	120.000	121.4351
$ 3 2-Fluorophenol	112	6.661	6.652	(0.772)	1777329	120.000	123.2425
$ 4 Phenol-d5	99	7.936	7.909	(0.920)	2151345	120.000	114.6008
5 Phenol	94	7.973	7.927	(0.924)	2132275	120.000	110.0944
6 Aniline	66	8.101	8.065	(0.939)	980428	120.000	114.9958
7 bis(2-Chloroethyl)ether	63	8.138	8.111	(0.944)	1263256	120.000	94.9475
8 2-Chlorophenol	128	8.285	8.267	(0.961)	1724931	120.000	118.7200
9 1,3-Dichlorobenzene	146	8.542	8.533	(0.990)	1764900	120.000	111.2420
* 10 1,4-Dichlorobenzene-d4	152	8.624	8.615	(1.000)	414731	40.0000	
11 1,4-Dichlorobenzene	146	8.661	8.652	(1.004)	1654216	120.000	110.3993
12 1,2-Dichlorobenzene	146	8.945	8.927	(1.037)	1631818	120.000	109.8933
13 Benzyl alcohol	108	8.872	8.817	(1.029)	1404040	120.000	120.7823
14 2-Methylphenol	107	9.000	8.973	(1.044)	1390053	120.000	111.1295
15 bis(2-Chloroisopropyl) ether	45	9.046	9.028	(1.049)	2423863	120.000	115.6697
16 4-Methylphenol	107	9.266	9.257	(1.074)	2407847	120.000	119.1321
17 N-Nitroso-di-n-propylamine	70	9.367	9.312	(1.086)	1243407	120.000	108.9335
18 Hexachloroethane	117	9.569	9.560	(1.110)	724738	120.000	108.7496
$ 19 Nitrobenzene-d5	82	9.661	9.634	(0.868)	1982945	120.000	112.1330
20 Nitrobenzene	77	9.707	9.670	(0.872)	1754102	120.000	107.5273

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG10.D
Report Date: 17-Mar-2006 10:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	10.257	10.138	(0.922)	4373581	120.000	112.5509(M)
	22 2-Nitrophenol	139	10.321	10.294	(0.927)	963222	120.000	116.3795
	23 2,4-Dimethylphenol	122	10.358	10.312	(0.931)	1398010	120.000	110.8824
	24 bis(2-Chloroethoxy)methane	93	10.551	10.514	(0.948)	2066487	120.000	115.1353
	25 2,4-Dichlorophenol	162	10.817	10.780	(0.972)	1464298	120.000	113.6487
	26 Benzoic acid	122	10.743	10.533	(0.965)	994939	120.000	121.8970(QM)
	27 1,2,4-Trichlorobenzene	180	10.991	10.973	(0.988)	1462195	120.000	106.8719
*	28 Naphthalene-d8	136	11.129	11.110	(1.000)	1571924	40.0000	
	29 Naphthalene	128	11.184	11.156	(1.005)	3780123	120.000	93.9369
	30 4-Chloroaniline	127	11.275	11.239	(1.013)	2045613	120.000	117.0802
	31 Hexachlorobutadiene	225	11.404	11.395	(1.025)	885527	120.000	107.7024
	32 Resorcinol	110	12.092	12.037	(1.087)	1442791	120.000	119.2982(A)
	33 4-Chloro-3-methylphenol	107	12.312	12.276	(1.106)	1715339	120.000	110.2878
	34 2-Methylnaphthalene	142	12.706	12.679	(1.142)	2808883	120.000	92.5980
	35 Hexachlorocyclopentadiene	237	13.046	13.037	(0.861)	738560	120.000	125.5871
	36 2,4,6-Trichlorophenol	196	13.358	13.321	(0.881)	1059737	120.000	115.2993
	37 2,4,5-Trichlorophenol	196	13.440	13.404	(0.887)	1125478	120.000	114.3777
$	38 2-Fluorobiphenyl	172	13.541	13.514	(0.893)	2994189	120.000	102.6334
	39 2-Chloronaphthalene	162	13.853	13.817	(0.914)	2929203	120.000	106.2548
	40 2-Nitroaniline	65	14.110	14.064	(0.931)	1143209	120.000	113.7187
	41 Dimethylphthalate	163	14.532	14.468	(0.959)	3768650	120.000	105.9073
	42 2,6-Dinitrotoluene	165	14.679	14.624	(0.969)	1085832	120.000	116.7795
	43 Acenaphthylene	152	14.835	14.807	(0.979)	4463453	120.000	101.6322
	44 3-Nitroaniline	138	15.110	15.046	(0.997)	1015295	120.000	124.3004
*	45 Acenaphthene-d10	164	15.156	15.138	(1.000)	935846	40.0000	
	46 Acenaphthene	154	15.257	15.229	(1.007)	2418614	120.000	99.1415
	47 2,4-Dinitrophenol	184	15.339	15.284	(1.012)	628630	120.000	124.2229
	48 4-Nitrophenol	109	15.495	15.413	(1.022)	565795	120.000	121.3692
	49 Dibenzofuran	168	15.670	15.633	(1.034)	3222943	120.000	84.8622
	50 2,4-Dinitrotoluene	165	15.660	15.606	(1.033)	999032	120.000	89.3635
	51 2,3,4,6-Tetrachlorophenol	232	15.963	15.927	(1.053)	969574	120.000	122.6171(A)
	52 Diethylphthalate	149	16.211	16.156	(1.070)	3449631	120.000	103.1290
	53 4-Chlorophenyl-phenylether	204	16.468	16.440	(1.087)	1388095	120.000	114.4305
	54 Fluorene	166	16.504	16.468	(1.089)	2529200	120.000	117.4402
	55 4-Nitroaniline	138	16.651	16.541	(1.099)	864139	120.000	127.5568(H)
	56 4,6-Dinitro-2-methylphenol	198	16.669	16.587	(0.888)	751914	120.000	122.5483
	57 N-Nitrosodiphenylamine	169	16.780	16.734	(0.894)	2039110	120.000	108.2832
	58 Azobenzene	77	16.862	16.826	(0.898)	3242932	120.000	108.6737
$	59 2,4,6-Tribromophenol	330	17.082	17.046	(1.127)	699962	120.000	113.0515
	60 4-Bromophenyl-phenylether	248	17.660	17.633	(0.941)	1056427	120.000	103.7998
	61 Hexachlorobenzene	284	17.853	17.816	(0.951)	1126471	120.000	101.6409
	62 Pentachlorophenol	266	18.312	18.284	(0.976)	815059	120.000	120.1466
*	63 Phenanthrene-d10	188	18.770	18.752	(1.000)	1462083	40.0000	
	64 Phenanthrene	178	18.853	18.816	(1.004)	4041502	120.000	99.0933
	65 Anthracene	178	18.981	18.936	(1.011)	4130582	120.000	101.0797
	66 Carbazole	167	19.357	19.321	(1.031)	3925065	120.000	113.7963
	67 Di-n-butylphthalate	149	20.165	20.137	(1.074)	5624806	120.000	114.4398
	68 Fluoranthene	202	21.871	21.834	(1.165)	4534557	120.000	97.5828
	69 Benzidine	184	22.183	22.165	(0.859)	588449	120.000	123.6235
	70 Pyrene	202	22.486	22.449	(0.870)	4710077	120.000	114.0355
$	71 Terphenyl-d14	244	22.862	22.834	(0.885)	3100070	120.000	111.1624
	72 Butylbenzylphthalate	149	24.192	24.165	(0.936)	2563147	120.000	112.4336
	73 bis(2-Ethylhexyl)phthalate	149	25.788	25.770	(0.998)	2704568	120.000	119.0186
	74 3,3'-Dichlorobenzidine	252	25.733	25.687	(0.996)	1270931	120.000	120.3207

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG10.D
Report Date: 17-Mar-2006 10:21

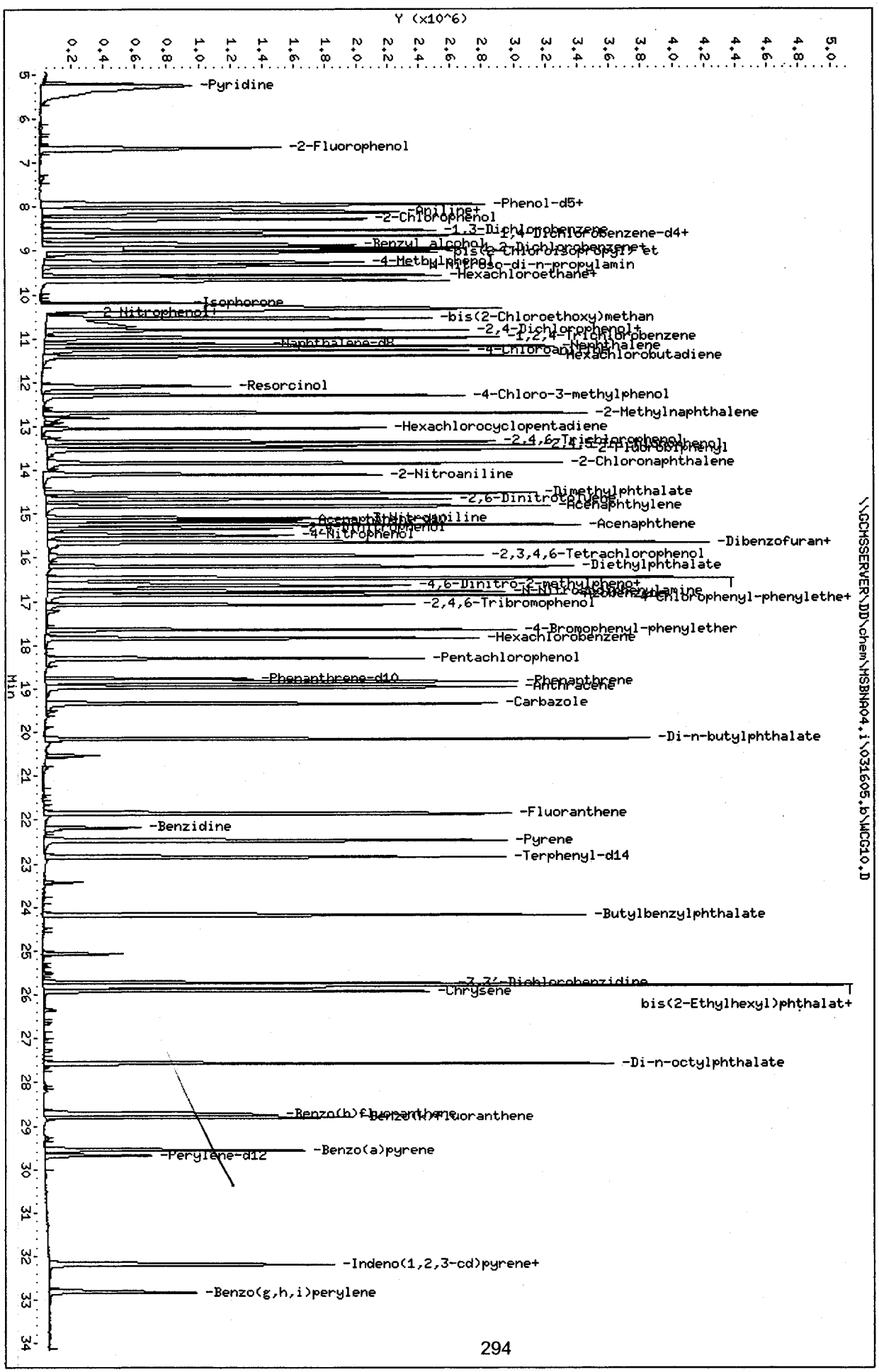
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Benzo(a)anthracene	228	25.806	25.761	(0.999)	3011315	120.000	95.6521
* 76 Chrysene-d12	240	25.834	25.807	(1.000)	877493	40.0000	
77 Chrysene	228	25.926	25.880	(1.004)	3029283	120.000	111.7258
78 Di-n-octylphthalate	149	27.577	27.559	(0.929)	4849796	120.000	121.7392
79 Benzo(b)fluoranthene	252	28.742	28.696	(0.968)	2956908	120.000	133.3428
80 Benzo(k)fluoranthene	252	28.806	28.770	(0.971)	2271588	120.000	111.6751(A)
81 Benzo(a)pyrene	252	29.568	29.540	(0.996)	2091989	120.000	118.3661
* 82 Perylene-d12	264	29.678	29.678	(1.000)	586680	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	32.173	32.164	(1.084)	1568402	120.000	105.6967
84 Dibenz(a,h)anthracene	278	32.200	32.173	(1.085)	1298718	120.000	107.4956
85 Benzo(g,h,i)perylene	276	32.824	32.797	(1.106)	1250167	120.000	106.3499

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG10.D
Date : 16-MAR-2006 18:28
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2585
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG11.D
Report Date: 17-Mar-2006 10:21

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG11.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 16-MAR-2006 19:14 MS Autotune Date: 12-DEC-2005 12:21
Operator : LLH Inst ID: MSBNA04.i
Smp Info : ICAL,S2586
Misc Info : 160ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\6PTBNA4.m
Meth Date : 17-Mar-2006 10:21 target Quant Type: ISTD
Cal Date : 16-MAR-2006 19:14 Cal File: WCG11.D
Als bottle: 10 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	5.272	5.258	(0.611)	2505038	160.000	169.5998
2 N-Nitrosodimethylamine	74	5.217	5.203	(0.605)	1551366	160.000	161.9192
$ 3 2-Fluorophenol	112	6.666	6.652	(0.773)	2070669	160.000	165.0857
$ 4 Phenol-d5	99	7.941	7.909	(0.920)	2424685	160.000	148.5042
5 Phenol	94	7.978	7.927	(0.925)	2385007	160.000	141.5851
6 Aniline	66	8.097	8.065	(0.938)	1116384	160.000	150.5517
7 bis(2-Chloroethyl)ether	63	8.143	8.111	(0.944)	1348359	160.000	116.5209
8 2-Chlorophenol	128	8.290	8.267	(0.961)	1993739	160.000	157.7707
9 1,3-Dichlorobenzene	146	8.547	8.533	(0.990)	1972366	160.000	142.9362
* 10 1,4-Dichlorobenzene-d4	152	8.629	8.615	(1.000)	360712	40.0000	
11 1,4-Dichlorobenzene	146	8.666	8.652	(1.004)	1825628	160.000	140.0853
12 1,2-Dichlorobenzene	146	8.941	8.927	(1.036)	1778956	160.000	137.7434
13 Benzyl alcohol	108	8.895	8.817	(1.031)	1611522	160.000	159.3918
14 2-Methylphenol	107	9.005	8.973	(1.044)	1566654	160.000	144.0049
15 bis(2-Chloroisopropyl) ether	45	9.060	9.028	(1.050)	2534531	160.000	160.7403
16 4-Methylphenol	107	9.280	9.257	(1.075)	2738856	160.000	155.8027
17 N-Nitroso-di-n-propylamine	70	9.381	9.312	(1.087)	1398769	160.000	140.8965
18 Hexachloroethane	117	9.565	9.560	(1.108)	805044	160.000	138.8904
$ 19 Nitrobenzene-d5	82	9.666	9.634	(0.868)	2230795	160.000	140.2959
20 Nitrobenzene	77	9.712	9.670	(0.872)	1947845	160.000	132.7947

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG11.D
Report Date: 17-Mar-2006 10:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	10.280	10.138	(0.923)	4692615	160.000	134.3041
	22 2-Nitrophenol	139	10.326	10.294	(0.927)	1038274	160.000	139.5162
	23 2,4-Dimethylphenol	122	10.363	10.312	(0.931)	1584901	160.000	139.8032
	24 bis(2-Chloroethoxy)methane	93	10.556	10.514	(0.948)	2326848	160.000	160.5420
	25 2,4-Dichlorophenol	162	10.831	10.780	(0.973)	1646942	160.000	142.1595
	26 Benzoic acid	122	10.776	10.533	(0.968)	1239827	160.000	156.7678(QM)
	27 1,2,4-Trichlorobenzene	180	10.996	10.973	(0.988)	1654580	160.000	134.4958
*	28 Naphthalene-d8	136	11.134	11.110	(1.000)	1413413	40.0000	
	29 Naphthalene	128	11.189	11.156	(1.005)	4169637	160.000	115.2367
	30 4-Chloroaniline	127	11.280	11.239	(1.013)	2308882	160.000	146.9685
	31 Hexachlorobutadiene	225	11.409	11.395	(1.025)	972046	160.000	131.4839
	32 Resorcinol	110	12.106	12.037	(1.087)	1700875	160.000	154.1129(A)
	33 4-Chloro-3-methylphenol	107	12.317	12.276	(1.106)	2005498	160.000	143.4043
	34 2-Methylnaphthalene	142	12.711	12.679	(1.142)	3145873	160.000	115.3378
	35 Hexachlorocyclopentadiene	237	13.051	13.037	(0.861)	848254	160.000	162.6266
	36 2,4,6-Trichlorophenol	196	13.363	13.321	(0.881)	1217534	160.000	149.3538
	37 2,4,5-Trichlorophenol	196	13.445	13.404	(0.887)	1279804	160.000	146.6406
$	38 2-Fluorobiphenyl	172	13.537	13.514	(0.893)	3415765	160.000	132.0092
	39 2-Chloronaphthalene	162	13.849	13.817	(0.913)	3290695	160.000	134.5839
	40 2-Nitroaniline	65	14.115	14.064	(0.931)	1330021	160.000	149.1664
	41 Dimethylphthalate	163	14.546	14.468	(0.959)	4305476	160.000	136.4168
	42 2,6-Dinitrotoluene	165	14.693	14.624	(0.969)	1264653	160.000	153.3493
	43 Acenaphthylene	152	14.840	14.807	(0.979)	5031982	160.000	129.1831
	44 3-Nitroaniline	138	15.124	15.046	(0.998)	1199371	160.000	165.5543
*	45 Acenaphthene-d10	164	15.161	15.138	(1.000)	830038	40.0000	
	46 Acenaphthene	154	15.262	15.229	(1.007)	2744518	160.000	126.8415
	47 2,4-Dinitrophenol	184	15.353	15.284	(1.013)	756325	160.000	159.8379
	48 4-Nitrophenol	109	15.519	15.413	(1.024)	689480	160.000	159.1923
	49 Dibenzofuran	168	15.674	15.633	(1.034)	3791574	160.000	112.5609
	50 2,4-Dinitrotoluene	165	15.684	15.606	(1.034)	1177546	160.000	118.7586
	51 2,3,4,6-Tetrachlorophenol	232	15.968	15.927	(1.053)	1118696	160.000	159.5102(A)
	52 Diethylphthalate	149	16.225	16.156	(1.070)	3944798	160.000	132.9657
	53 4-Chlorophenyl-phenylether	204	16.473	16.440	(1.087)	1527305	160.000	161.9971
	54 Fluorene	166	16.509	16.468	(1.089)	2946874	160.000	184.7261
	55 4-Nitroaniline	138	16.665	16.541	(1.099)	1024163	160.000	170.4494(H)
	56 4,6-Dinitro-2-methylphenol	198	16.684	16.587	(0.889)	894530	160.000	159.4536
	57 N-Nitrosodiphenylamine	169	16.794	16.734	(0.895)	2254838	160.000	134.4521(H)
	58 Azobenzene	77	16.867	16.826	(0.899)	3822750	160.000	168.7366
$	59 2,4,6-Tribromophenol	330	17.087	17.046	(1.127)	787818	160.000	143.4611
	60 4-Bromophenyl-phenylether	248	17.665	17.633	(0.941)	1216595	160.000	134.2255
	61 Hexachlorobenzene	284	17.858	17.816	(0.952)	1284688	160.000	130.1602
	62 Pentachlorophenol	266	18.316	18.284	(0.976)	953133	160.000	156.2754
*	63 Phenanthrene-d10	188	18.766	18.752	(1.000)	1302088	40.0000	
	64 Phenanthrene	178	18.858	18.816	(1.005)	4634197	160.000	127.5873
	65 Anthracene	178	18.986	18.936	(1.012)	4694532	160.000	128.9961
	66 Carbazole	167	19.362	19.321	(1.032)	4444539	160.000	144.6904
	67 Di-n-butylphthalate	149	20.170	20.137	(1.075)	6338757	160.000	162.2984
	68 Fluoranthene	202	21.876	21.834	(1.166)	5160676	160.000	124.7029
	69 Benzidine	184	22.179	22.165	(0.858)	641347	160.000	155.9443
	70 Pyrene	202	22.490	22.449	(0.870)	5234261	160.000	148.7201
$	71 Terphenyl-d14	244	22.867	22.834	(0.885)	3491312	160.000	146.9188
	72 Butylbenzylphthalate	149	24.197	24.165	(0.936)	2861566	160.000	147.3089
	73 bis(2-Ethylhexyl)phthalate	149	25.793	25.770	(0.998)	2951453	160.000	160.5612
	74 3,3'-Dichlorobenzidine	252	25.738	25.687	(0.996)	1331328	160.000	147.9128

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG11.D
Report Date: 17-Mar-2006 10:21

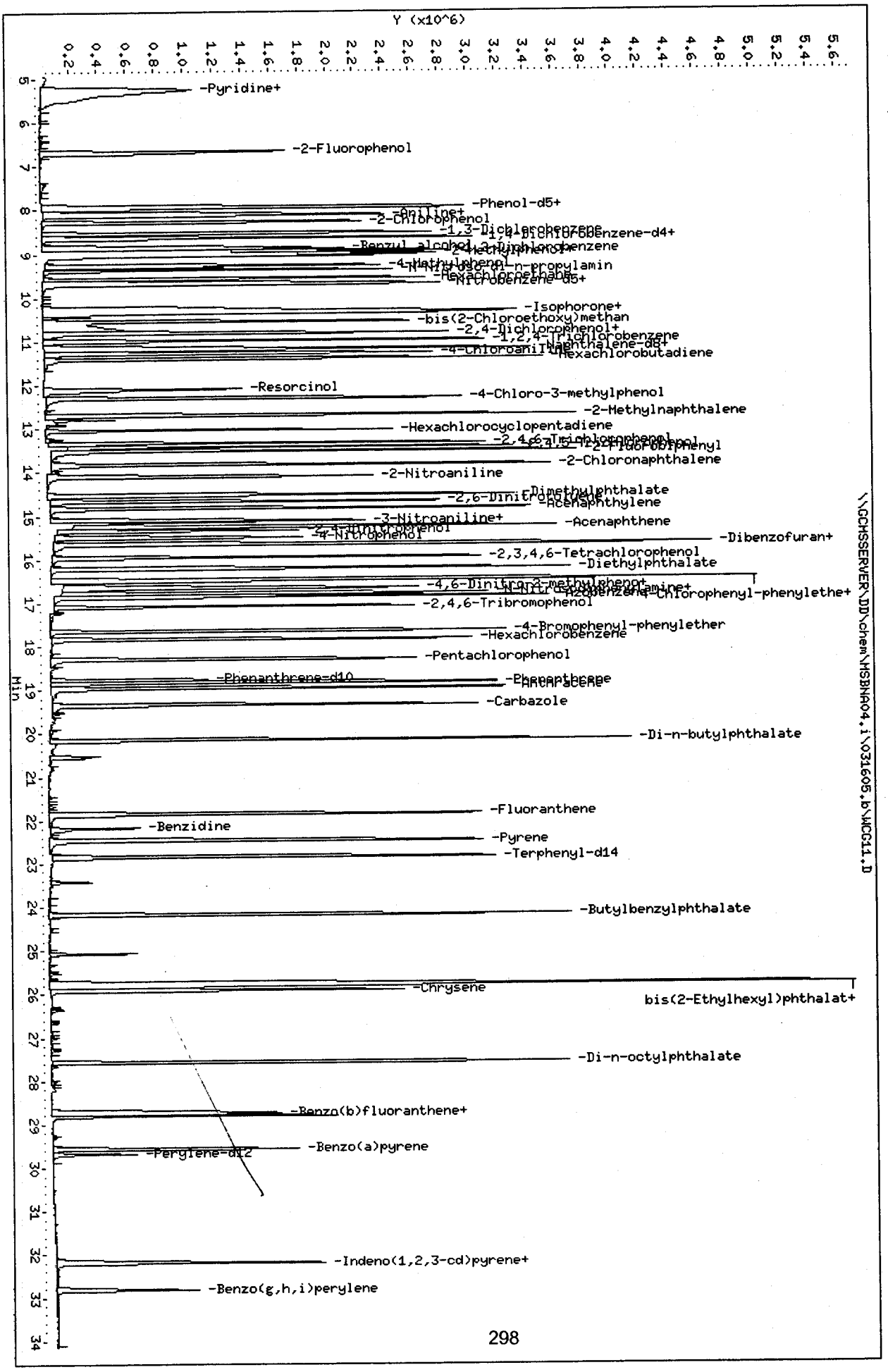
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Benzo(a)anthracene	228	25.811	25.761	(0.999)	3309804	160.000	123.3795
* 76 Chrysene-d12	240	25.839	25.807	(1.000)	747724	40.0000	
77 Chrysene	228	25.931	25.880	(1.004)	3322657	160.000	143.8141
78 Di-n-octylphthalate	149	27.582	27.559	(0.929)	5287971	160.000	159.6432
79 Benzo(b)fluoranthene	252	28.747	28.696	(0.968)	3275186	160.000	177.6323
80 Benzo(k)fluoranthene	252	28.811	28.770	(0.971)	2399518	160.000	141.8747(A)
81 Benzo(a)pyrene	252	29.573	29.540	(0.996)	2284256	160.000	155.4415
* 82 Perylene-d12	264	29.683	29.678	(1.000)	487806	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	32.178	32.164	(1.084)	1698604	160.000	137.6735
84 Dibenz(a,h)anthracene	278	32.196	32.173	(1.085)	1401498	160.000	139.5156
85 Benzo(g,h,i)perylene	276	32.820	32.797	(1.106)	1363894	160.000	139.5417

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\031605.b\WCG11.D
Date : 16-MAR-2006 19:14
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2586
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: LLH
Column diameter: 0.25



CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185586 MSBNA Water: EPA 8270C

Inst : MSBNA05
Calnum : 546098496001
Units : ng

Name : 6PTBNA5
Date : 09-MAR-2006 18:47
X Axis : R

Reviewer: AMK
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	xc914	546098496014	2ug/mL	09-MAR-2006 18:47	S2578
L2	xc915	546098496015	5ug/mL	09-MAR-2006 19:27	S2579
L3	xc916	546098496016	10ug/mL	09-MAR-2006 20:07	S2580
L4	xc917	546098496017	20ug/mL	09-MAR-2006 20:47	S2581
L5	xc918	546098496018	50ug/mL	09-MAR-2006 21:26	S2582
L6	xc919	546098496019	80ug/mL	09-MAR-2006 22:05	S2583
L7	xc920	546098496020	100ug/mL	09-MAR-2006 22:45	S2584
L8	xc921	546098496021	120ug/mL	09-MAR-2006 23:26	S2585
L9	xc922	546098496022	160ug/mL	10-MAR-2006 00:05	S2586

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Phenol			1.4545	1.5576	1.6497	1.7456	1.8425	1.8886	1.8727	AVRG		0.58279		1.7159	10	15	0.050	0.99	
bis(2-Chloroethyl)ether			0.9094m	0.8115	0.9916	0.9871	1.0565	1.0814	1.0945	AVRG		1.00979		0.9903	10	15	0.050	0.99	
2-Chlorophenol			1.3404	1.3436	1.3620	1.3967	1.4661	1.4828	1.4778	AVRG		0.70927		1.4099	5	15	0.050	0.99	
1,3-Dichlorobenzene			1.6352	1.6647	1.6769	1.7392	1.7904	1.8394	1.8669	AVRG		0.57317		1.7447	5	15	0.050	0.99	
1,4-Dichlorobenzene			1.5294	1.6004	1.6080	1.6536	1.7695	1.8112	1.8465	AVRG		0.59229		1.6884	7	15	0.050	0.99	
Benzyl alcohol			0.7315	0.7629	0.8290	0.8627	0.9096	0.9371	0.9408	AVRG		1.17180		0.8534	10	15	0.050	0.99	
1,2-Dichlorobenzene			1.4584	1.4954	1.4950	1.5283	1.6143	1.6481	1.7236	AVRG		0.63851		1.5661	6	15	0.050	0.99	
2-Methylphenol			1.0138	0.9207	0.9920	1.0162	1.0973	1.1132	1.1590	AVRG		0.95730		1.0446	8	15	0.050	0.99	
bis(2-Chloroisopropyl) ether			1.0947	1.1414	1.0951	1.1321	1.1852	1.2232	1.2318	AVRG		0.86383		1.1576	5	15	0.050	0.99	
4-Methylphenol			1.3374	1.4811	1.4641	1.5465	1.6713	1.6834	1.7118	AVRG		0.64246		1.5565	9	15	0.050	0.99	
N-Nitroso-di-n-propylamine			0.5905	0.6012	0.6284	0.6773	0.7186	0.7276	0.7482	AVRG		1.49201		0.6702	10	15	0.050	0.99	
Hexachloroethane			0.6475	0.6524	0.6797	0.7097	0.7570	0.7885	0.8027	AVRG		1.38952		0.7197	9	15	0.050	0.99	
Nitrobenzene			0.3965	0.3965	0.3872	0.3877	0.4245	0.4186	0.4326	AVRG		2.46168		0.4062	5	15	0.050	0.99	
Isophorone			0.6531	0.6823	0.7014	0.7291	0.7740	0.7884	0.7872	AVRG		1.36843		0.7308	7	15	0.050	0.99	
2-Nitrophenol			0.2053	0.1983	0.2135	0.2300	0.2492	0.2529	0.2517	AVRG		4.37268		0.2287	10	15	0.050	0.99	
2,4-Dimethylphenol			0.2757	0.2868	0.2981	0.3146	0.3409	0.3436	0.3538	AVRG		3.16224		0.3162	10	15	0.050	0.99	
bis(2-Chloroethoxy)methane			0.3716	0.3794	0.3975	0.4080	0.4551	0.4389	0.4797	AVRG		2.38892		0.4186	10	15	0.050	0.99	
Benzoic acid					0.0954	0.1494	0.1688	0.1741	0.1880m	LINR	28.2128	4.36176		0.1552	0.999	15	0.050	0.99	
2,4-Dichlorophenol			0.3274	0.3231	0.3418	0.3613	0.3801	0.3728	0.3855	AVRG		2.80908		0.3560	7	15	0.050	0.99	
1,2,4-Trichlorobenzene			0.3739	0.3721	0.3764	0.3906	0.4171	0.4033	0.4221	AVRG		2.54030		0.3937	5	15	0.050	0.99	
Naphthalene	1.0583	1.0036	1.0261	1.0281	1.0440	1.1194	1.1798	1.1752	1.2789	AVRG		0.90787		1.1015	8	15	0.050	0.99	
4-Chloroaniline			0.3131	0.3719	0.4286	0.4083	0.4742	0.4504	0.4811	AVRG		2.39109		0.4182	14	15	0.050	0.99	
Hexachlorobutadiene			0.2298	0.2265	0.2363	0.2479	0.2658	0.2582	0.2740	AVRG		4.02625		0.2484	7	15	0.050	0.99	
4-Chloro-3-methylphenol			0.3219	0.3357	0.3680	0.4104	0.4282	0.4373	0.4395	AVRG		2.55381		0.3916	13	15	0.050	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
2-Methylnaphthalene	0.7014	0.7083	0.7406	0.7635	0.8143	0.8947	0.9433	0.9308	1.0183	AVRG		1.19757		0.8350	14	15	0.050	0.99	
Hexachlorocyclopentadiene			0.1286m	0.1895	0.2377	0.2647	0.2805	0.2883	0.3334	QUAD	5.04158	3.98921	-0.02026	0.2461	1.000	15	0.050	0.99	
2,4,6-Trichlorophenol			0.3728	0.4002	0.4191	0.4333	0.4688	0.4676	0.4949	AVRG		2.29005		0.4367	10	15	0.050	0.99	
2,4,5-Trichlorophenol			0.4316	0.4193	0.4272	0.4438	0.4820	0.4793	0.5203	AVRG		2.18514		0.4576	8	15	0.050	0.99	
2-Chloronaphthalene			1.1704	1.2320	1.2253	1.2641	1.3774	1.3611	1.4628	AVRG		0.76981		1.2990	8	15	0.050	0.99	
2-Nitroaniline			0.3349	0.3547	0.3478	0.3595	0.3623	0.3776	0.3666	AVRG		2.79621		0.3576	4	15	0.050	0.99	
Dimethylphthalate			1.5825	1.6605	1.6870	1.7222	1.7120	1.7720	1.8030	AVRG		0.58630		1.7056	4	15	0.050	0.99	
2,6-Dinitrotoluene			0.3415	0.3541	0.3489	0.3632	0.3725	0.3659	0.3816	AVRG		2.76928		0.3611	4	15	0.050	0.99	
Acenaphthylene	1.8468	1.8124	1.8182	1.8747	1.8887	1.9727	2.0863	2.0460	2.2399	AVRG		0.51178		1.9540	7	15	0.050	0.99	
3-Nitroaniline			0.2226	0.2612	0.3108	0.3275	0.3342	0.3209	0.3205	AVRG		3.33695		0.2997	14	15	0.050	0.99	
Acenaphthene	1.0239	1.0084	1.0068	1.0710	1.1683	1.2070	1.3386	1.3609	1.4216	AVRG		0.84853		1.1785	14	15	0.050	0.99	
2,4-Dinitrophenol				0.0419m	0.1145	0.1345	0.1661	0.1578	0.1710	QUAD	16.8001	5.68517	-0.01759	0.1310	0.995	15	0.050	0.99	
4-Nitrophenol				0.1981	0.2083	0.2199	0.2292	0.2357	0.2378	AVRG		4.51474		0.2215	7	15	0.050	0.99	
Dibenzofuran			1.6484	1.7262	1.7293	1.8527	1.8508	1.8533	1.9675	AVRG		0.55432		1.8040	6	15	0.050	0.99	
2,4-Dinitrotoluene			0.4448	0.4717	0.4628	0.4655	0.4710	0.4523	0.4633	AVRG		2.16635		0.4616	2	15	0.050	0.99	
Diethylphthalate			1.6152	1.7277	1.6036	1.6555	1.7606	1.6287	1.6533	AVRG		0.60114		1.6635	4	15	0.050	0.99	
Fluorene	1.3494	1.3112	1.3580	1.4333	1.4384	1.4584	1.4912	1.4552	1.5661	AVRG		0.69978		1.4290	6	15	0.050	0.99	
4-Chlorophenyl-phenylether			0.6897	0.7172	0.7563	0.7631	0.8441	0.8129	0.9061	AVRG		1.27516		0.7842	10	15	0.050	0.99	
4-Nitroaniline			0.2409	0.2875	0.2578	0.2713	0.2934	0.2861	0.2844	AVRG		3.64319		0.2745	7	15	0.050	0.99	
4,6-Dinitro-2-methylphenol				0.0766	0.1016	0.1188	0.1386	0.1417	0.1458	QUAD	12.0880	7.05203	-0.03349	0.1205	0.996	15	0.050	0.99	
N-Nitrosodiphenylamine			0.4852	0.5013	0.4960	0.5180	0.5800	0.5505	0.5597	AVRG		1.89667		0.5272	7	15	0.050	0.99	
4-Bromophenyl-phenylether			0.2286	0.2409	0.2543	0.2718	0.2983	0.3037	0.3047	AVRG		3.67990		0.2717	12	15	0.050	0.99	
Hexachlorobenzene			0.2474	0.2462	0.2561	0.2683	0.3038	0.2960	0.3085	AVRG		3.63394		0.2752	10	15	0.050	0.99	
Pentachlorophenol				0.1065	0.1287	0.1485	0.1684	0.1695	0.1878	QUAD	8.34239	6.40917	-0.04588	0.1516	0.998	15	0.050	0.99	
Phenanthrene	1.2192	1.1796	1.1751	1.1974	1.2190	1.2619	1.3950	1.3593	1.4319	AVRG		0.78682		1.2709	8	15	0.050	0.99	
Anthracene	1.2191	1.1576	1.1385	1.1406	1.1527	1.2470	1.2728	1.2965	1.3466	AVRG		0.82030		1.2191	6	15	0.050	0.99	
Di-n-butylphthalate			1.7619	1.8004	1.6855	1.8229	2.0369	1.9672	2.1682	AVRG		0.52858		1.8918	9	15	0.050	0.99	
Fluoranthene	1.4819	1.4564	1.4408	1.3918	1.4055	1.4990	1.6220	1.5896	1.7964	AVRG		0.65774		1.5204	8	15	0.050	0.99	
Pyrene	1.5447	1.6128	1.5850	1.5918	1.6755	1.7969	1.8636	1.8827	1.8611	AVRG		0.58389		1.7127	8	15	0.050	0.99	
Butylbenzylphthalate			0.8329	0.8944	0.9667	1.0324	1.0929	1.0800	1.1147	AVRG		0.99801		1.0020	11	15	0.050	0.99	
3,3'-Dichlorobenzidine				0.3422	0.4894	0.5329	0.5706	0.5583	0.5629	QUAD	10.0723	1.55792	0.001136	0.5094	0.999	15	0.050	0.99	
Benzo(a)anthracene	1.5422	1.5175	1.5296	1.5830	1.5740	1.6223	1.6810	1.6525	1.6459	AVRG		0.62727		1.5942	4	15	0.050	0.99	
bis(2-Ethylhexyl)phthalate			1.2682	1.3749	1.4775	1.5802	1.6800	1.6875	1.7072	AVRG		0.64962		1.5394	11	15	0.050	0.99	
Chrysene	1.1832	1.1847	1.1670	1.1669	1.2055	1.2687	1.3357	1.3075	1.3386	AVRG		0.80662		1.2397	6	15	0.050	0.99	
Di-n-octylphthalate			2.3361	2.5780	2.6082	2.7161	2.8267	2.9010	2.8447	AVRG		0.37213		2.6873	7	15	0.050	0.99	
Benzo(b)fluoranthene	1.4539m	1.4219m	1.5082	1.5198	1.5482	1.5944	1.7399	1.7920	1.8363	AVRG		0.62437		1.6016	9	15	0.050	0.99	
Benzo(k)fluoranthene	1.4370	1.4458	1.4954	1.4949	1.5002	1.5139	1.4975	1.4735	1.3929	AVRG		0.67919		1.4723	3	15	0.050	0.99	
Benzo(a)pyrene	1.2108	1.2384	1.2724	1.3220	1.3661	1.4097	1.4694	1.4734	1.4647	AVRG		0.73608		1.3585	8	15	0.050	0.99	
Indeno(1,2,3-cd)pyrene	1.2996	1.2722	1.3059	1.3904	1.4373	1.5402	1.5919	1.5034	1.4908	AVRG		0.70139		1.4257	8	15	0.050	0.99	
Dibenz(a,h)anthracene	1.0083	1.0320	1.0604	1.1251	1.1706	1.2542	1.3113	1.2581	1.2527	AVRG		0.85938		1.1636	10	15	0.050	0.99	
Benzo(g,h,i)perylene	1.0540	1.0309	1.0436	1.0549	1.0600	1.1804	1.2017	1.1005	1.1105	AVRG		0.91495		1.0930	6	15	0.050	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
2-Fluorophenol			1.1749	1.3265	1.4252	1.4675	1.5602	1.6100	1.5923	AVRG		0.68921		1.4509	11	15	0.050	0.99	
Phenol-d5			1.3424m	1.4934	1.6033	1.6825	1.8155	1.8741	1.8790	AVRG		0.59879		1.6700	12	15	0.050	0.99	
Nitrobenzene-d5			0.3841	0.4035	0.3747	0.3877	0.4051	0.4133	0.4082	AVRG		2.52100		0.3967	4	15	0.050	0.99	
2-Fluorobiphenyl			1.2527	1.3212	1.3055	1.2991	1.4102	1.4176	1.4325	AVRG		0.74162		1.3484	5	15	0.050	0.99	
2,4,6-Tribromophenol			0.1561m	0.1744	0.1901	0.2040	0.2094	0.2222	0.2232	AVRG		5.07433		0.1971	13	15	0.050	0.99	
Terphenyl-d14			1.1531	1.1512	1.2194	1.2593	1.3758	1.3545	1.3902	AVRG		0.78620		1.2719	8	15	0.050	0.99	

301

m=manual integration

AVRG=Average response factor LINR=Linear regression QUAD=Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

546098496001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185586 MSBNA Water
EPA 8270C

Inst : MSBNA05 Name : 6PTBNA5
Calnum : 546098496001 Cal Date: 09-MAR-2006

ICV 546100373003 (xca03 10-MAR-2006) stds: S1959

Analyte	Spiked	Quant	Units	%D	Max	Flags
Phenol	80.00	77.91	ng	-3	20	
bis(2-Chloroethyl)ether	80.00	77.99	ng	-3	30	
2-Chlorophenol	80.00	73.15	ng	-9	30	
1,3-Dichlorobenzene	80.00	71.88	ng	-10	30	
1,4-Dichlorobenzene	80.00	71.42	ng	-11	20	
Benzyl alcohol	80.00	73.18	ng	-9	30	
1,2-Dichlorobenzene	80.00	71.08	ng	-11	30	
2-Methylphenol	80.00	67.01	ng	-16	30	
bis(2-Chloroisopropyl) ether	80.00	71.13	ng	-11	30	
4-Methylphenol	80.00	71.04	ng	-11	30	
N-Nitroso-di-n-propylamine	80.00	81.65	ng	2	30	
Hexachloroethane	80.00	73.16	ng	-9	30	
Nitrobenzene	80.00	65.47	ng	-18	30	
Isophorone	80.00	67.79	ng	-15	30	
2-Nitrophenol	80.00	70.81	ng	-11	20	
2,4-Dimethylphenol	80.00	68.78	ng	-14	30	
bis(2-Chloroethoxy)methane	80.00	66.68	ng	-17	30	
Benzoic acid	80.00	81.46	ng	2	40	
2,4-Dichlorophenol	80.00	69.31	ng	-13	20	
1,2,4-Trichlorobenzene	80.00	67.45	ng	-16	30	
Naphthalene	80.00	72.64	ng	-9	30	
4-Chloroaniline	80.00	65.68	ng	-18	30	
Hexachlorobutadiene	80.00	65.09	ng	-19	20	
4-Chloro-3-methylphenol	80.00	73.21	ng	-8	20	
2-Methylnaphthalene	80.00	74.78	ng	-7	30	
Hexachlorocyclopentadiene	80.00	79.50	ng	-1	40	
2,4,6-Trichlorophenol	80.00	71.88	ng	-10	20	
2,4,5-Trichlorophenol	80.00	74.12	ng	-7	30	
2-Chloronaphthalene	80.00	69.49	ng	-13	30	
2-Nitroaniline	80.00	74.31	ng	-7	30	
Dimethylphthalate	80.00	73.25	ng	-8	30	
2,6-Dinitrotoluene	80.00	71.01	ng	-11	30	
Acenaphthylene	80.00	76.11	ng	-5	30	
3-Nitroaniline	80.00	60.60	ng	**-24**	30	!v-
Acenaphthene	80.00	76.62	ng	-4	20	
2,4-Dinitrophenol	80.00	73.48	ng	-8	40	
4-Nitrophenol	80.00	69.48	ng	-13	40	
Dibenzofuran	80.00	76.88	ng	-4	30	
2,4-Dinitrotoluene	80.00	70.16	ng	-12	30	
Diethylphthalate	80.00	77.88	ng	-3	30	
Fluorene	80.00	77.24	ng	-3	30	
4-Chlorophenyl-phenylether	80.00	74.00	ng	-8	40	
4-Nitroaniline	80.00	43.68	ng	**-45**	30	v- ***
4,6-Dinitro-2-methylphenol	80.00	70.89	ng	-11	30	
N-Nitrosodiphenylamine	80.00	83.42	ng	4	20	
4-Bromophenyl-phenylether	80.00	71.63	ng	-10	30	
Hexachlorobenzene	80.00	67.60	ng	-16	30	
Pentachlorophenol	80.00	70.35	ng	-12	20	
Phenanthrene	80.00	70.08	ng	-12	30	

Analyte	Spiked	Quant	Units	%D	Max	Flags
Anthracene	80.00	71.06	ng	-11	30	
Di-n-butylphthalate	80.00	68.86	ng	-14	30	
Fluoranthene	80.00	68.79	ng	-14	20	
Pyrene	80.00	76.43	ng	-4	30	
Butylbenzylphthalate	80.00	73.46	ng	-8	30	
3,3'-Dichlorobenzidine	80.00	40.09	ng	**-50**	40	v- ***
Benzo(a)anthracene	80.00	68.65	ng	-14	30	
bis(2-Ethylhexyl)phthalate	80.00	75.19	ng	-6	30	
Chrysene	80.00	76.71	ng	-4	30	
Di-n-octylphthalate	80.00	79.68	ng	0	20	
Benzo(b)fluoranthene	80.00	82.23	ng	3	30	
Benzo(k)fluoranthene	80.00	83.66	ng	5	30	
Benzo(a)pyrene	80.00	80.78	ng	1	20	
Indeno(1,2,3-cd)pyrene	80.00	87.41	ng	9	30	
Dibenz(a,h)anthracene	80.00	87.00	ng	9	30	
Benzo(g,h,i)perylene	80.00	91.13	ng	14	30	

!=warning -=low bias v=ICV

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC914.D
Report Date: 10-Mar-2006 17:21

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC914.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 09-MAR-2006 18:47 MS Autotune Date: 26-SEP-2005 13:06
Operator : BNA Inst ID: MSBNA05.i
Smp Info : ICAL,S2578
Misc Info : 2ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\6PTBNA5.m
Meth Date : 10-Mar-2006 17:21 target Quant Type: ISTD
Cal Date : 09-MAR-2006 18:47 Cal File: XC914.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 10 1,4-Dichlorobenzene-d4	152	7.128	7.127	(1.000)	114750	40.0000	
$ 19 Nitrobenzene-d5	82	8.049	7.769	(0.932)	11018	2.00000	2.9211
21 Isophorone	82	8.049	8.049	(0.932)	11018	2.00000	1.5856
* 28 Naphthalene-d8	136	8.639	8.639	(1.000)	380346	40.0000	
* 29 Naphthalene	128	8.670	8.670	(1.004)	20126	2.00000	1.9216
* 34 2-Methylnaphthalene	142	9.508	9.508	(1.101)	13339	2.00000	1.6799
$ 38 2-Fluorobiphenyl	172	9.933	9.932	(0.918)	15149	2.00000	2.0200
39 2-Chloronaphthalene	162	10.119	10.119	(0.935)	13583	2.00000	1.8800
41 Dimethylphthalate	163	10.409	10.408	(0.962)	16811	2.00000	1.7721
42 2,6-Dinitrotoluene	165	10.823	10.512	(1.000)	29177	2.00000	14.5278
* 43 Acenaphthylene	152	10.647	10.657	(0.984)	20543	2.00000	1.8903
* 45 Acenaphthene-d10	164	10.823	10.822	(1.000)	222467	40.0000	
* 46 Acenaphthene	154	10.864	10.864	(1.004)	11389	2.00000	1.7375
49 Dibenzofuran	168	11.071	11.071	(1.023)	18685	2.00000	1.8622
50 2,4-Dinitrotoluene	165	10.823	11.030	(1.000)	29177	2.00000	11.3648
52 Diethylphthalate	149	11.268	11.278	(1.041)	16671	2.00000	1.8018
* 54 Fluorene	166	11.506	11.506	(1.063)	15010	2.00000	1.8885
58 Azobenzene	77	11.661	11.671	(0.918)	15567	2.00000	1.9104
* 63 Phenanthrene-d10	188	12.696	12.696	(1.000)	359099	40.0000	
* 64 Phenanthrene	178	12.727	12.727	(1.002)	21890	2.00000	1.9185

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC914.D
Report Date: 10-Mar-2006 17:21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 65 Anthracene	178	12.789	12.789	(1.007)	21889	2.00000	2.0000
66 Carbazole	167	12.976	12.975	(1.022)	17186	2.00000	1.8275
67 Di-n-butylphthalate	149	13.296	13.307	(1.047)	32407	2.00000	1.9080
* 68 Fluoranthene	202	14.228	14.228	(1.121)	26607	2.00000	1.9493
* 70 Pyrene	202	14.549	14.549	(0.877)	27226	2.00000	1.8038
$ 71 Terphenyl-d14	244	14.683	14.683	(0.885)	22046	2.00000	1.9667
72 Butylbenzylphthalate	149	15.366	15.366	(0.926)	12962	2.00000	1.4678
* 74 Benzo(a)anthracene	228	16.557	16.567	(0.998)	27182	2.00000	1.9347
* 75 Chrysene-d12	240	16.598	16.608	(1.000)	352511	40.0000	
76 bis(2-Ethylhexyl)phthalate	149	16.370	16.370	(0.986)	19714	2.00000	1.4531
* 77 Chrysene	228	16.650	16.660	(1.003)	20854	2.00000	1.9087
78 Di-n-octylphthalate	149	17.913	17.912	(0.872)	31108	2.00000	1.4456
* 79 Benzo(b)fluoranthene	252	19.289	19.310	(0.939)	23283	2.00000	1.8154 (M)
* 80 Benzo(k)fluoranthene	252	19.372	19.393	(0.943)	23013	2.00000	1.9519 (A)
* 81 Benzo(a)pyrene	252	20.324	20.345	(0.989)	19391	2.00000	1.7825
* 82 Perylene-d12	264	20.542	20.541	(1.000)	320292	40.0000	
* 83 Indeno(1,2,3-cd)pyrene	276	23.792	23.812	(1.158)	20813	2.00000	1.8230
* 84 Dibenz(a,h)anthracene	278	23.823	23.853	(1.160)	16148	2.00000	1.7330
* 85 Benzo(g,h,i)perylene	276	24.537	24.568	(1.194)	16880	2.00000	1.9287

8/13/06

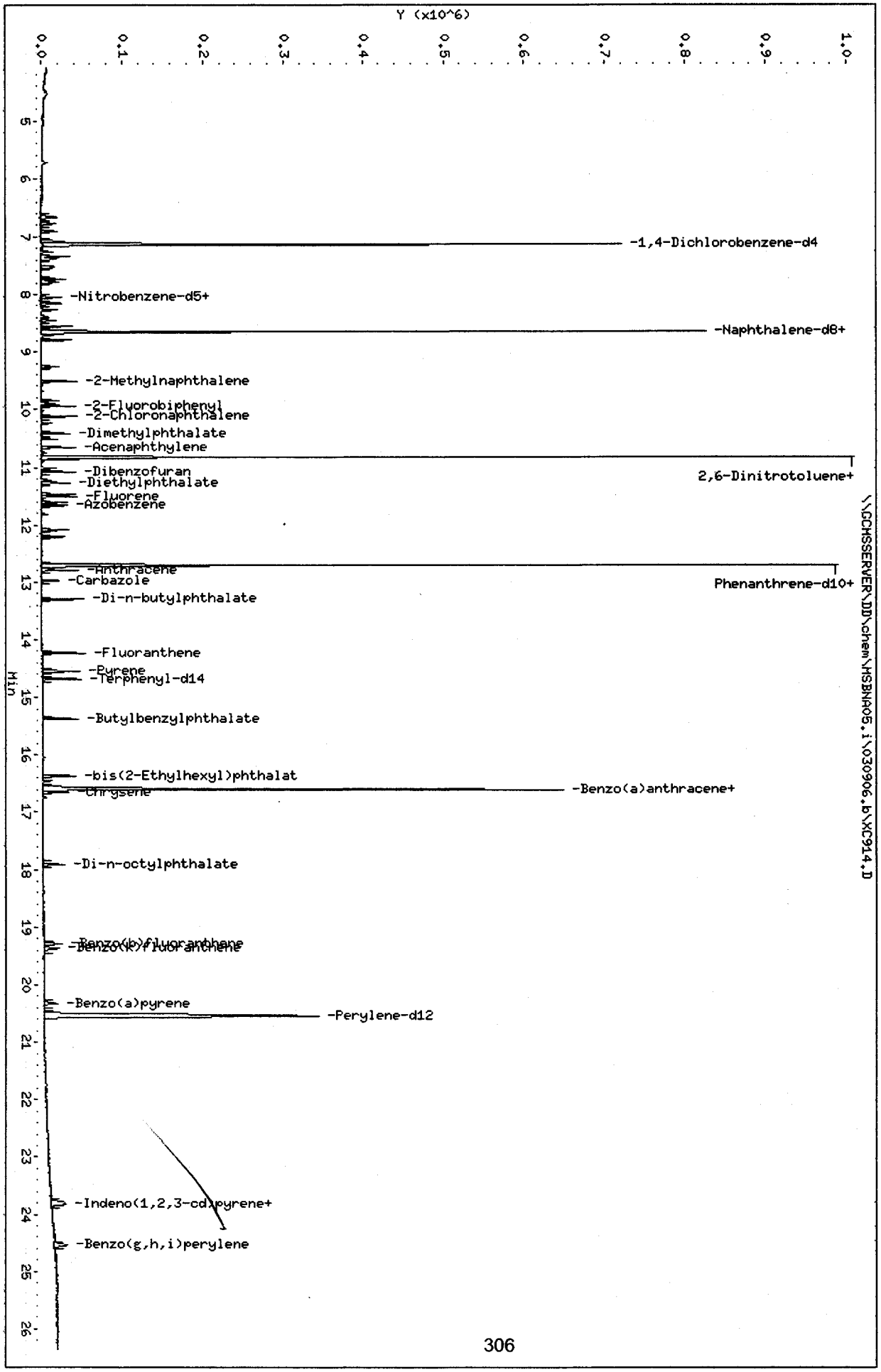
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

*PAH's only

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC914.D
Date : 09-MAR-2006 18:47
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2578
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA05.i
Operator: BNA
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC915.D
Report Date: 10-Mar-2006 17:22

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC915.D
Lab Smp Id:
Inj Date : 09-MAR-2006 19:27
Operator : BNA
Smp Info : ICAL,S2579
Misc Info : 5ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\6PTBNA5.m
Meth Date : 10-Mar-2006 17:21 target
Cal Date : 09-MAR-2006 19:27
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSBNA03

Client Smp ID: CURTIS&TOMPKINS
MS Autotune Date: 26-SEP-2005 13:06
Inst ID: MSBNA05.i

Quant Type: ISTD
Cal File: XC915.D
Calibration Sample, Level: 2

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	4.519	4.519	(0.634)	15656	5.00000	3.7811
2 N-Nitrosodimethylamine	42	4.468	4.467	(0.627)	8139	5.00000	7.9828 (M)
$ 3 2-Fluorophenol	112	5.720	5.720	(0.803)	14565	5.00000	3.8206 (M)
$ 4 Phenol-d5	99	6.641	6.651	(0.932)	16448	5.00000	3.7484 (M)
5 Phenol	94	6.662	6.662	(0.935)	17590	5.00000	3.9016
6 Aniline	66	6.755	6.755	(0.948)	8338	5.00000	4.4706 (M)
7 bis(2-Chloroethyl)ether	63	6.786	6.786	(0.952)	11742	5.00000	4.5127 (M)
8 2-Chlorophenol	128	6.900	6.900	(0.968)	16001	5.00000	4.3194
9 1,3-Dichlorobenzene	146	7.076	7.076	(0.993)	20618	5.00000	4.4978
* 10 1,4-Dichlorobenzene-d4	152	7.128	7.127	(1.000)	105097	40.0000	
11 1,4-Dichlorobenzene	146	7.148	7.148	(1.003)	20476	5.00000	4.6158
12 Benzyl alcohol	108	7.252	7.252	(1.017)	8162	5.00000	3.6401 (M)
13 1,2-Dichlorobenzene	146	7.335	7.334	(1.029)	19372	5.00000	4.7077
14 2-Methylphenol	107	7.345	7.345	(1.030)	12912	5.00000	4.7044
15 bis(2-Chloroisopropyl) ether	45	7.386	7.386	(1.036)	14873	5.00000	4.8898
16 4-Methylphenol	107	7.521	7.521	(1.055)	18213	5.00000	4.4534
17 N-Nitroso-di-n-propylamine	70	7.542	7.541	(1.058)	7048	5.00000	4.0022 (M)
18 Hexachloroethane	117	7.728	7.728	(1.084)	8122	5.00000	4.2953 (M)
$ 19 Nitrobenzene-d5	82	7.769	7.769	(0.899)	15834	5.00000	4.6850
20 Nitrobenzene	77	7.790	7.790	(0.902)	16845	5.00000	4.8669

3/13/06

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC915.D
Report Date: 10-Mar-2006 17:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	8.049	8.049	(0.932)	26408	5.00000	4.2414
	22 2,4-Dimethylphenol	122	8.152	8.152	(0.944)	11749	5.00000	4.3606
	23 2-Nitrophenol	139	8.163	8.162	(0.945)	7627	5.00000	3.9143 (M)
N/R	24 bis(2-Chloroethoxy)methane	93	8.266	8.266	(0.957)	15401	5.00000	4.3182
	26 2,4-Dichlorophenol	162	8.442	8.442	(0.977)	13339	5.00000	4.3978
	27 1,2,4-Trichlorobenzene	180	8.556	8.556	(0.990)	15791	5.00000	4.7081
*	28 Naphthalene-d8	136	8.639	8.639	(1.000)	340805	40.0000	
	29 Naphthalene	128	8.670	8.670	(1.004)	42752	5.00000	4.5554
	30 4-Chloroaniline	127	8.711	8.711	(1.008)	14589	5.00000	4.0942
	31 Hexachlorobutadiene	225	8.784	8.783	(1.017)	9734	5.00000	4.5998 (M)
	32 Resorcinol	110	9.125	9.115	(1.056)	3725	5.00000	16.1963 (AM)
	33 4-Chloro-3-methylphenol	107	9.260	9.260	(1.072)	12786	5.00000	3.8324
	34 2-Methylnaphthalene	142	9.508	9.508	(1.101)	30173	5.00000	4.2410
	35 Hexachlorocyclopentadiene	237	9.695	9.694	(0.896)	2917	5.00000	7.3388 (M)
	36 2,4,6-Trichlorophenol	196	9.839	9.839	(0.909)	8786	5.00000	3.9838 (M)
	37 2,4,5-Trichlorophenol	196	9.891	9.891	(0.914)	9967	5.00000	4.3123 (M)
$	38 2-Fluorobiphenyl	172	9.933	9.932	(0.918)	32686	5.00000	4.7996
	39 2-Chloronaphthalene	162	10.119	10.119	(0.935)	30499	5.00000	4.6487
	40 2-Nitroaniline	65	10.233	10.233	(0.945)	7520	5.00000	4.1634 (M)
	41 Dimethylphthalate	163	10.409	10.408	(0.962)	37335	5.00000	4.3341
	42 2,6-Dinitrotoluene	165	10.512	10.512	(0.971)	7778	5.00000	4.2648 (M)
	43 Acenaphthylene	152	10.647	10.657	(0.984)	45767	5.00000	4.6377
	44 3-Nitroaniline	138	10.750	10.750	(0.993)	5416	5.00000	3.5784 (M)
*	45 Acenaphthene-d10	164	10.823	10.822	(1.000)	202019	40.0000	
N/R	46 Acenaphthene	154	10.864	10.864	(1.004)	25465	5.00000	4.2783
	48 4-Nitrophenol	109	10.916	10.916	(1.009)	1450	5.00000	1.2961 (M)
	49 Dibenzofuran	168	11.071	11.071	(1.023)	41100	5.00000	4.5109
	50 2,4-Dinitrotoluene	165	11.019	11.030	(1.018)	10222	5.00000	4.3846
	51 2,3,4,6-Tetrachlorophenol	232	11.216	11.216	(1.036)	5760	5.00000	3.0984 (AM)
	52 Diethylphthalate	149	11.268	11.278	(1.041)	37764	5.00000	4.4948
	53 4-Chlorophenyl-phenylether	204	11.464	11.464	(1.059)	17007	5.00000	4.2939
	54 Fluorene	166	11.506	11.506	(1.063)	33112	5.00000	4.5879
	55 4-Nitroaniline	138	11.516	11.516	(1.064)	5234	5.00000	3.7755 (M)
	56 4,6-Dinitro-2-methylphenol	198	11.558	11.537	(0.910)	375	5.00000	12.4058 (M)
	57 N-Nitrosodiphenylamine	169	11.609	11.609	(0.914)	20805	5.00000	4.7438
	58 Azobenzene	77	11.661	11.671	(0.918)	36303	5.00000	4.8083
$	59 2,4,6-Tribromophenol	330	11.816	11.816	(1.092)	3500	5.00000	3.5165 (M)
	60 4-Bromophenyl-phenylether	248	12.085	12.085	(0.952)	9601	5.00000	4.2474 (M)
	61 Hexachlorobenzene	284	12.210	12.209	(0.962)	10192	5.00000	4.4525
	62 Pentachlorophenol	266	12.448	12.447	(0.980)	1676	5.00000	9.6318 (M)
*	63 Phenanthrene-d10	188	12.696	12.696	(1.000)	332725	40.0000	
	64 Phenanthrene	178	12.727	12.727	(1.002)	49061	5.00000	4.6407
	65 Anthracene	178	12.789	12.789	(1.007)	48145	5.00000	4.7478
	66 Carbazole	167	12.976	12.975	(1.022)	36197	5.00000	4.1542
	67 Di-n-butylphthalate	149	13.296	13.307	(1.047)	75253	5.00000	4.7820
N/R	68 Fluoranthene	202	14.228	14.228	(1.121)	60572	5.00000	4.7895
	70 Pyrene	202	14.549	14.549	(0.877)	62134	5.00000	4.7084
$	71 Terphenyl-d14	244	14.683	14.683	(0.885)	45793	5.00000	4.6725
	72 Butylbenzylphthalate	149	15.366	15.366	(0.926)	30696	5.00000	3.9759
	73 3,3'-Dichlorobenzidine	252	16.453	16.463	(0.991)	14033	5.00000	12.9134
	74 Benzo(a)anthracene	228	16.567	16.567	(0.998)	58464	5.00000	4.7594
*	75 Chrysene-d12	240	16.598	16.608	(1.000)	308205	40.0000	
	76 bis(2-Ethylhexyl)phthalate	149	16.370	16.370	(0.986)	47329	5.00000	3.9903
	77 Chrysene	228	16.650	16.660	(1.003)	45643	5.00000	4.7781

3/13/06

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC915.D
Report Date: 10-Mar-2006 17:22

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
78 Di-n-octylphthalate	149	17.913	17.912	(0.872)	77464	5.00000	4.0502
79 Benzo(b)fluoranthene	252	19.289	19.310	(0.939)	50599	5.00000	4.4388(M)
80 Benzo(k)fluoranthene	252	19.372	19.393	(0.943)	51450	5.00000	4.9098(A)
81 Benzo(a)pyrene	252	20.324	20.345	(0.989)	44071	5.00000	4.5579
* 82 Perylene-d12	264	20.542	20.541	(1.000)	284688	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	23.792	23.812	(1.158)	45274	5.00000	4.4616
84 Dibenz(a,h)anthracene	278	23.833	23.853	(1.160)	36726	5.00000	4.4345
85 Benzo(g,h,i)perylene	276	24.547	24.568	(1.195)	36686	5.00000	4.7161

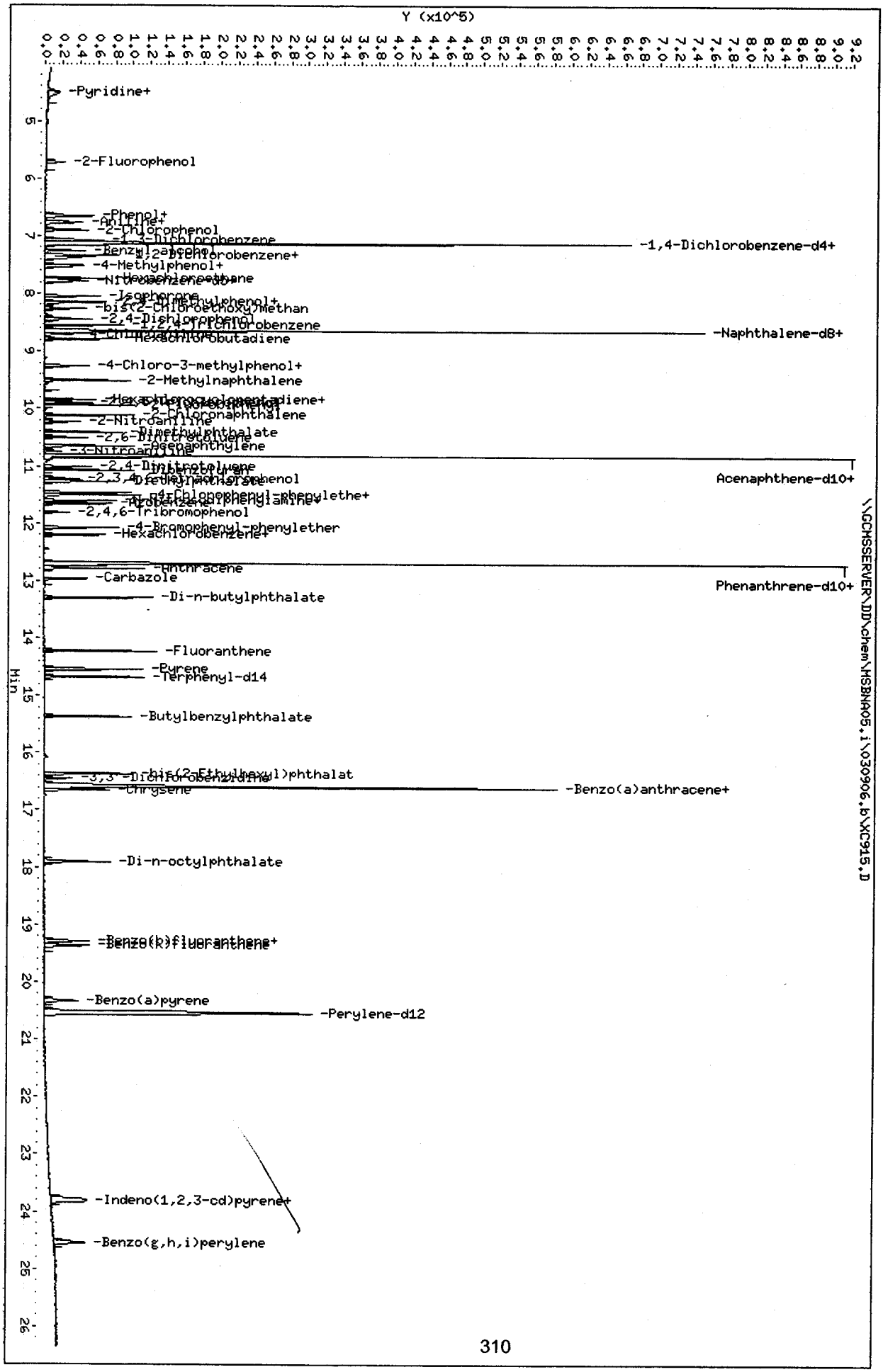
3/13/06

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC915.D
Date : 09-MAR-2006 19:27
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2579
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA05.i
Operator: BNA
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC916.D
Report Date: 10-Mar-2006 17:22

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC916.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 09-MAR-2006 20:07 MS Autotune Date: 26-SEP-2005 13:06
Operator : BNA Inst ID: MSBNA05.i
Smp Info : ICAL,S2580
Misc Info : 10ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\6PTBNA5.m
Meth Date : 10-Mar-2006 17:22 target Quant Type: ISTD
Cal Date : 09-MAR-2006 20:07 Cal File: XC916.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	4.530	4.519	(0.636)	33214	10.0000	8.1607
2 N-Nitrosodimethylamine	42	4.468	4.467	(0.627)	16694	10.0000	11.3694
$ 3 2-Fluorophenol	112	5.720	5.720	(0.803)	30343	10.0000	8.0973
$ 4 Phenol-d5	99	6.641	6.651	(0.932)	34670	10.0000	8.0381(M)
5 Phenol	94	6.662	6.662	(0.935)	37566	10.0000	8.4768
6 Aniline	66	6.755	6.755	(0.948)	16067	10.0000	8.7640
7 bis(2-Chloroethyl)ether	63	6.776	6.786	(0.951)	23486	10.0000	9.1827(M)
8 2-Chlorophenol	128	6.900	6.900	(0.968)	34618	10.0000	9.5070
9 1,3-Dichlorobenzene	146	7.076	7.076	(0.993)	42231	10.0000	9.3722
* 10 1,4-Dichlorobenzene-d4	152	7.128	7.127	(1.000)	103307	40.0000	
11 1,4-Dichlorobenzene	146	7.148	7.148	(1.003)	39500	10.0000	9.0586
12 Benzyl alcohol	108	7.252	7.252	(1.017)	18893	10.0000	8.5720
13 1,2-Dichlorobenzene	146	7.335	7.334	(1.029)	37665	10.0000	9.3118
14 2-Methylphenol	107	7.345	7.345	(1.030)	26184	10.0000	9.7054
15 bis(2-Chloroisopropyl) ether	45	7.386	7.386	(1.036)	28272	10.0000	9.4561
16 4-Methylphenol	107	7.521	7.521	(1.055)	34541	10.0000	8.5923
17 N-Nitroso-di-n-propylamine	70	7.542	7.541	(1.058)	15251	10.0000	8.8104
18 Hexachloroethane	117	7.728	7.728	(1.084)	16724	10.0000	8.9977
$ 19 Nitrobenzene-d5	82	7.769	7.769	(0.899)	32155	10.0000	9.6835
20 Nitrobenzene	77	7.790	7.790	(0.902)	33190	10.0000	9.7600

3/13/06

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC916.D
Report Date: 10-Mar-2006 17:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	8.049	8.049	(0.932)	54669	10.0000	8.9366
	22 2,4-Dimethylphenol	122	8.152	8.152	(0.944)	23077	10.0000	8.7174
	23 2-Nitrophenol	139	8.163	8.162	(0.945)	17184	10.0000	8.9760
	24 bis(2-Chloroethoxy)methane	93	8.266	8.266	(0.957)	31105	10.0000	8.8765
	26 2,4-Dichlorophenol	162	8.442	8.442	(0.977)	27409	10.0000	9.1975
	27 1,2,4-Trichlorobenzene	180	8.556	8.556	(0.990)	31302	10.0000	9.4988
*	28 Naphthalene-d8	136	8.639	8.639	(1.000)	334847	40.0000	
	29 Naphthalene	128	8.670	8.670	(1.004)	85895	10.0000	9.3155
	30 4-Chloroaniline	127	8.711	8.711	(1.008)	26209	10.0000	7.4861
	31 Hexachlorobutadiene	225	8.784	8.783	(1.017)	19236	10.0000	9.2518
	32 Resorcinol	110	9.115	9.115	(1.055)	6917	10.0000	17.7009(AM)
	33 4-Chloro-3-methylphenol	107	9.260	9.260	(1.072)	26945	10.0000	8.2201
	34 2-Methylnaphthalene	142	9.508	9.508	(1.101)	61993	10.0000	8.8686
	35 Hexachlorocyclopentadiene	237	9.694	9.694	(0.896)	6757	10.0000	10.1378(M)
	36 2,4,6-Trichlorophenol	196	9.839	9.839	(0.909)	19588	10.0000	8.5367
	37 2,4,5-Trichlorophenol	196	9.891	9.891	(0.914)	22679	10.0000	9.4310
$	38 2-Fluorobiphenyl	172	9.933	9.932	(0.918)	65827	10.0000	9.2905
	39 2-Chloronaphthalene	162	10.119	10.119	(0.935)	61503	10.0000	9.0102
	40 2-Nitroaniline	65	10.233	10.233	(0.945)	17596	10.0000	9.3635
	41 Dimethylphthalate	163	10.409	10.408	(0.962)	83156	10.0000	9.2783
	42 2,6-Dinitrotoluene	165	10.512	10.512	(0.971)	17946	10.0000	9.4577
	43 Acenaphthylene	152	10.647	10.657	(0.984)	95541	10.0000	9.3053
	44 3-Nitroaniline	138	10.750	10.750	(0.993)	11696	10.0000	7.4275
*	45 Acenaphthene-d10	164	10.823	10.822	(1.000)	210186	40.0000	
	46 Acenaphthene	154	10.864	10.864	(1.004)	52906	10.0000	8.5434
	48 4-Nitrophenol	109	10.916	10.916	(1.009)	7456	10.0000	6.4061(M)
	49 Dibenzofuran	168	11.071	11.071	(1.023)	86620	10.0000	9.1375
	50 2,4-Dinitrotoluene	165	11.019	11.030	(1.018)	23371	10.0000	9.6352
	51 2,3,4,6-Tetrachlorophenol	232	11.216	11.216	(1.036)	14856	10.0000	7.6808(A)
	52 Diethylphthalate	149	11.278	11.278	(1.042)	84875	10.0000	9.7097
	53 4-Chlorophenyl-phenylether	204	11.464	11.464	(1.059)	36240	10.0000	8.7944
	54 Fluorene	166	11.506	11.506	(1.063)	71356	10.0000	9.5027
	55 4-Nitroaniline	138	11.516	11.516	(1.064)	12660	10.0000	8.7775
	56 4,6-Dinitro-2-methylphenol	198	11.537	11.537	(0.909)	4212	10.0000	15.2813(M)
	57 N-Nitrosodiphenylamine	169	11.609	11.609	(0.914)	45034	10.0000	9.2027
	58 Azobenzene	77	11.671	11.671	(0.919)	77764	10.0000	9.2308
$	59 2,4,6-Tribromophenol	330	11.816	11.816	(1.092)	8204	10.0000	7.9224(M)
	60 4-Bromophenyl-phenylether	248	12.085	12.085	(0.952)	21220	10.0000	8.4132
	61 Hexachlorobenzene	284	12.210	12.209	(0.962)	22965	10.0000	8.9914
	62 Pentachlorophenol	266	12.448	12.447	(0.980)	7692	10.0000	13.6224(M)
*	63 Phenanthrene-d10	188	12.696	12.696	(1.000)	371259	40.0000	
	64 Phenanthrene	178	12.727	12.727	(1.002)	109068	10.0000	9.2460
	65 Anthracene	178	12.789	12.789	(1.007)	105672	10.0000	9.3393
	66 Carbazole	167	12.976	12.975	(1.022)	80236	10.0000	8.2527
	67 Di-n-butylphthalate	149	13.307	13.307	(1.048)	163528	10.0000	9.3130
	68 Fluoranthene	202	14.228	14.228	(1.121)	133727	10.0000	9.4766
	70 Pyrene	202	14.549	14.549	(0.877)	131804	10.0000	9.2543
$	71 Terphenyl-d14	244	14.683	14.683	(0.885)	95891	10.0000	9.0657
	72 Butylbenzylphthalate	149	15.366	15.366	(0.926)	69265	10.0000	8.3126
	73 3,3'-Dichlorobenzidine	252	16.453	16.463	(0.991)	26020	10.0000	14.9580
	74 Benzo(a)anthracene	228	16.567	16.567	(0.998)	127200	10.0000	9.5946
*	75 Chrysene-d12	240	16.598	16.608	(1.000)	332636	40.0000	
	76 bis(2-Ethylhexyl)phthalate	149	16.370	16.370	(0.986)	105462	10.0000	8.2384
	77 Chrysene	228	16.650	16.660	(1.003)	97044	10.0000	9.4129

3/13/06

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC916.D
Report Date: 10-Mar-2006 17:22

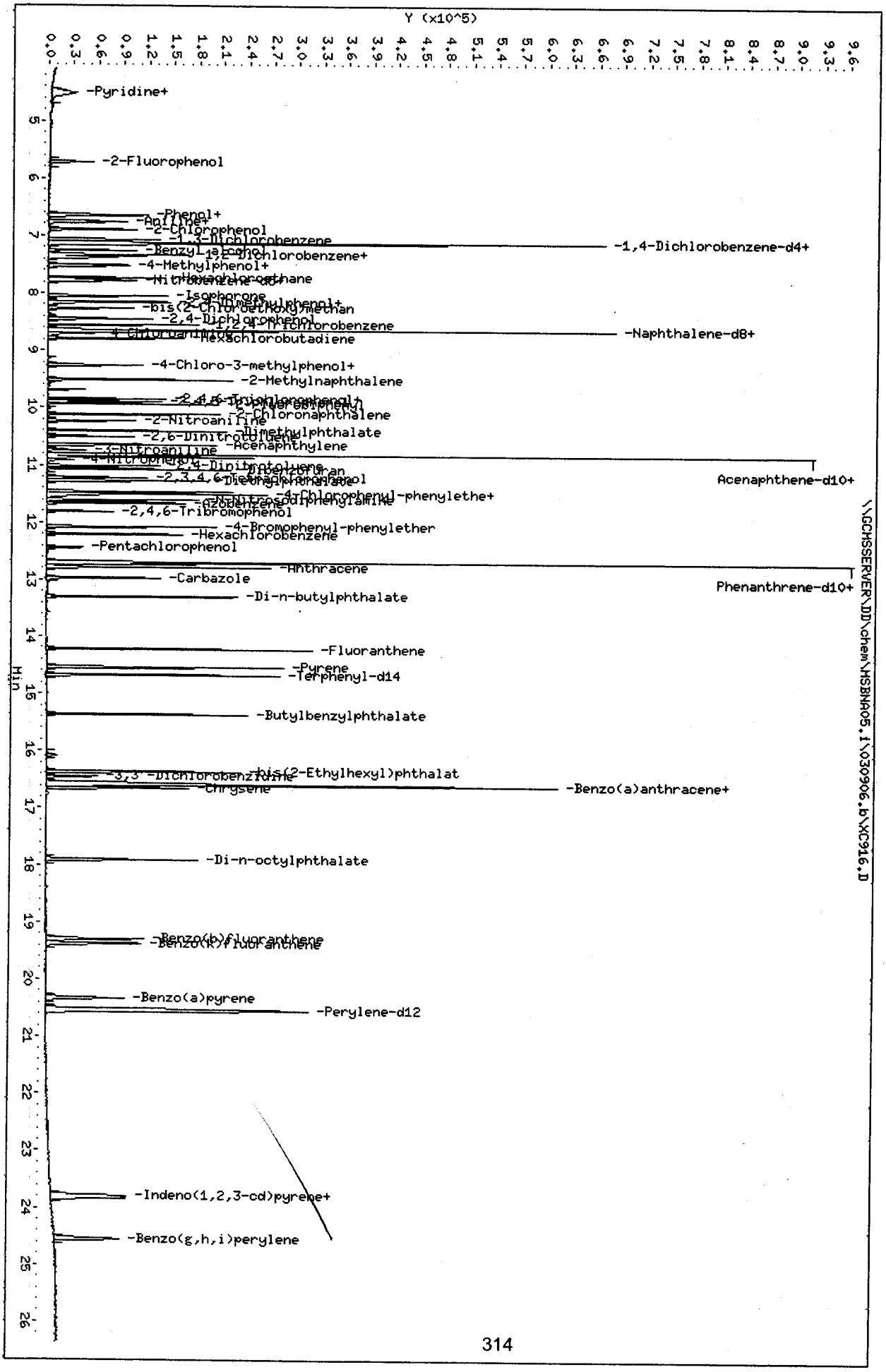
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
78 Di-n-octylphthalate	149	17.913	17.912	(0.872)	174093	10.0000	8.6931
79 Benzo(b)fluoranthene	252	19.300	19.310	(0.940)	112397	10.0000	9.4167
80 Benzo(k)fluoranthene	252	19.382	19.393	(0.944)	111446	10.0000	10.1569(A)
81 Benzo(a)pyrene	252	20.335	20.345	(0.990)	94827	10.0000	9.3661
* 82 Perylene-d12	264	20.542	20.541	(1.000)	298095	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	23.802	23.812	(1.159)	97319	10.0000	9.1592
84 Dibenz(a,h)anthracene	278	23.843	23.853	(1.161)	79024	10.0000	9.1127
85 Benzo(g,h,i)perylene	276	24.557	24.568	(1.195)	77775	10.0000	9.5487

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC916.D
Date : 09-MAR-2006 20:07
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2580
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA05.i
Operator: BNA
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC917.D
Report Date: 10-Mar-2006 17:22

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC917.D
Lab Smp Id:
Inj Date : 09-MAR-2006 20:47
Operator : BNA
Smp Info : ICAL,S2581
Misc Info : 20ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\6PTBNA5.m
Meth Date : 10-Mar-2006 17:22 target
Cal Date : 09-MAR-2006 20:47
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSBNA03

Client Smp ID: CURTIS&TOMPKINS
MS Autotune Date: 26-SEP-2005 13:06
Inst ID: MSBNA05.i

Quant Type: ISTD
Cal File: XC917.D
Calibration Sample, Level: 4

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	4.519	4.519	(0.634)	69716	20.0000	18.3008
2 N-Nitrosodimethylamine	42	4.467	4.467	(0.627)	37281	20.0000	20.3237
$ 3 2-Fluorophenol	112	5.720	5.720	(0.803)	64132	20.0000	18.2847
$ 4 Phenol-d5	99	6.651	6.651	(0.933)	72201	20.0000	17.8845
5 Phenol	94	6.662	6.662	(0.935)	75303	20.0000	18.1544
6 Aniline	66	6.755	6.755	(0.948)	31634	20.0000	18.4355
7 bis(2-Chloroethyl)ether	63	6.786	6.786	(0.952)	39236	20.0000	16.3899
8 2-Chlorophenol	128	6.900	6.900	(0.968)	64959	20.0000	19.0595
9 1,3-Dichlorobenzene	146	7.076	7.076	(0.993)	80484	20.0000	19.0833
* 10 1,4-Dichlorobenzene-d4	152	7.127	7.127	(1.000)	96694	40.0000	
11 1,4-Dichlorobenzene	146	7.148	7.148	(1.003)	77375	20.0000	18.9581
12 Benzyl alcohol	108	7.252	7.252	(1.017)	36884	20.0000	17.8793
13 1,2-Dichlorobenzene	146	7.334	7.334	(1.029)	72298	20.0000	19.0965
14 2-Methylphenol	107	7.345	7.345	(1.030)	44511	20.0000	17.6269
15 bis(2-Chloroisopropyl) ether	45	7.386	7.386	(1.036)	55183	20.0000	19.7193
16 4-Methylphenol	107	7.521	7.521	(1.055)	71605	20.0000	19.0305
17 N-Nitroso-di-n-propylamine	70	7.541	7.541	(1.058)	29065	20.0000	17.9391
18 Hexachloroethane	117	7.728	7.728	(1.084)	31544	20.0000	18.1318
$ 19 Nitrobenzene-d5	82	7.769	7.769	(0.899)	63569	20.0000	20.3468
20 Nitrobenzene	77	7.790	7.790	(0.902)	62457	20.0000	19.5205

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC917.D
Report Date: 10-Mar-2006 17:22

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
21 Isophorone	82	8.049	8.049	(0.932)	107477	20.0000	18.6731
22 2,4-Dimethylphenol	122	8.152	8.152	(0.944)	45180	20.0000	18.1392
23 2-Nitrophenol	139	8.162	8.162	(0.945)	31238	20.0000	17.3424
24 bis(2-Chloroethoxy)methane	93	8.266	8.266	(0.957)	59760	20.0000	18.1255
25 Benzoic acid	122	8.235	8.235	(0.953)	4822	20.0000	30.8831(M)
26 2,4-Dichlorophenol	162	8.442	8.442	(0.977)	50890	20.0000	18.1499
27 1,2,4-Trichlorobenzene	180	8.556	8.556	(0.990)	58614	20.0000	18.9045
* 28 Naphthalene-d8	136	8.639	8.639	(1.000)	315051	40.0000	
29 Naphthalene	128	8.670	8.670	(1.004)	161953	20.0000	18.6678
30 4-Chloroaniline	127	8.711	8.711	(1.008)	58586	20.0000	17.7856
31 Hexachlorobutadiene	225	8.783	8.783	(1.017)	35677	20.0000	18.2376
32 Resorcinol	110	9.115	9.115	(1.055)	13522	20.0000	21.1444(A)
33 4-Chloro-3-methylphenol	107	9.260	9.260	(1.072)	52883	20.0000	17.1468
34 2-Methylnaphthalene	142	9.508	9.508	(1.101)	120270	20.0000	18.2867
35 Hexachlorocyclopentadiene	237	9.694	9.694	(0.896)	18072	20.0000	19.8673
36 2,4,6-Trichlorophenol	196	9.839	9.839	(0.909)	38174	20.0000	18.3306
37 2,4,5-Trichlorophenol	196	9.891	9.891	(0.914)	39995	20.0000	18.3252
$ 38 2-Fluorobiphenyl	172	9.932	9.932	(0.918)	126022	20.0000	19.5971
39 2-Chloronaphthalene	162	10.119	10.119	(0.935)	117513	20.0000	18.9686
40 2-Nitroaniline	65	10.233	10.233	(0.945)	33831	20.0000	19.8358
41 Dimethylphthalate	163	10.408	10.408	(0.962)	158385	20.0000	19.4716
42 2,6-Dinitrotoluene	165	10.512	10.512	(0.971)	33774	20.0000	19.6116
43 Acenaphthylene	152	10.657	10.657	(0.985)	178807	20.0000	19.1882
44 3-Nitroaniline	138	10.750	10.750	(0.993)	24918	20.0000	17.4352
* 45 Acenaphthene-d10	164	10.822	10.822	(1.000)	190763	40.0000	
46 Acenaphthene	154	10.864	10.864	(1.004)	102151	20.0000	18.1751
47 2,4-Dinitrophenol	184	10.874	10.874	(1.005)	4001	20.0000	21.5573(M)
48 4-Nitrophenol	109	10.916	10.916	(1.009)	18895	20.0000	17.8873
49 Dibenzofuran	168	11.071	11.071	(1.023)	164648	20.0000	19.1372
50 2,4-Dinitrotoluene	165	11.030	11.030	(1.019)	44987	20.0000	20.4352
51 2,3,4,6-Tetrachlorophenol	232	11.216	11.216	(1.036)	31887	20.0000	18.1648(A)
52 Diethylphthalate	149	11.278	11.278	(1.042)	164789	20.0000	20.7714
53 4-Chlorophenyl-phenylether	204	11.464	11.464	(1.059)	68409	20.0000	18.2912
54 Fluorene	166	11.506	11.506	(1.063)	136706	20.0000	20.0592
55 4-Nitroaniline	138	11.516	11.516	(1.064)	27424	20.0000	20.9497
56 4,6-Dinitro-2-methylphenol	198	11.537	11.537	(0.909)	13327	20.0000	22.8121
57 N-Nitrosodiphenylamine	169	11.609	11.609	(0.914)	87218	20.0000	19.0146
58 Azobenzene	77	11.671	11.671	(0.919)	151785	20.0000	19.2220
$ 59 2,4,6-Tribromophenol	330	11.816	11.816	(1.092)	16634	20.0000	17.6986
60 4-Bromophenyl-phenylether	248	12.085	12.085	(0.952)	41918	20.0000	17.7307
61 Hexachlorobenzene	284	12.209	12.209	(0.962)	42841	20.0000	17.8948
62 Pentachlorophenol	266	12.447	12.447	(0.980)	18539	20.0000	21.7918
* 63 Phenanthrene-d10	188	12.696	12.696	(1.000)	347992	40.0000	
64 Phenanthrene	178	12.727	12.727	(1.002)	208347	20.0000	18.8431
65 Anthracene	178	12.789	12.789	(1.007)	198462	20.0000	18.7129
66 Carbazole	167	12.975	12.975	(1.022)	175808	20.0000	19.2919
67 Di-n-butylphthalate	149	13.307	13.307	(1.048)	313260	20.0000	19.0331
68 Fluoranthene	202	14.228	14.228	(1.121)	242165	20.0000	18.3085
70 Pyrene	202	14.549	14.549	(0.876)	237045	20.0000	18.5884
$ 71 Terphenyl-d14	244	14.683	14.683	(0.884)	171432	20.0000	18.1012
72 Butylbenzylphthalate	149	15.366	15.366	(0.925)	133190	20.0000	17.8520
73 3,3'-Dichlorobenzidine	252	16.463	16.463	(0.991)	50959	20.0000	20.7877
74 Benzo(a)anthracene	228	16.567	16.567	(0.998)	235738	20.0000	19.8593
* 75 Chrysene-d12	240	16.608	16.608	(1.000)	297836	40.0000	

3/13/06

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC917.D
Report Date: 10-Mar-2006 17:22

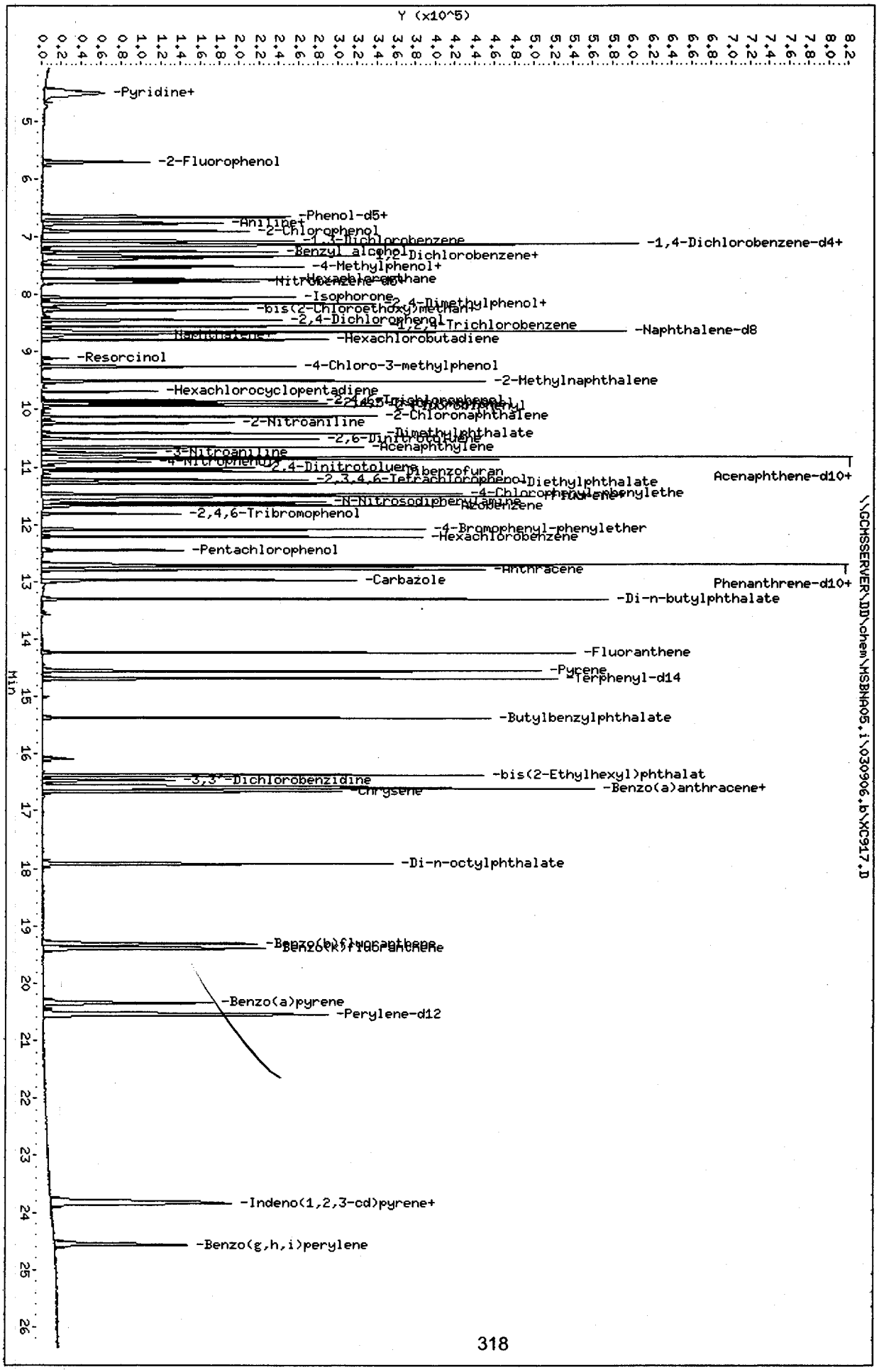
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
76 bis(2-Ethylhexyl)phthalate	149	16.370	16.370	(0.986)	204748	20.0000	17.8632
77 Chrysene	228	16.660	16.660	(1.003)	173768	20.0000	18.8243
78 Di-n-octylphthalate	149	17.912	17.912	(0.872)	348137	20.0000	19.1870
79 Benzo(b)fluoranthene	252	19.310	19.310	(0.940)	205239	20.0000	18.9787
80 Benzo(k)fluoranthene	252	19.393	19.393	(0.944)	201873	20.0000	20.3066(A)
81 Benzo(a)pyrene	252	20.345	20.345	(0.990)	178518	20.0000	19.4614
* 82 Perylene-d12	264	20.541	20.541	(1.000)	270080	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	23.812	23.812	(1.159)	187758	20.0000	19.5040
84 Dibenz(a,h)anthracene	278	23.853	23.853	(1.161)	151930	20.0000	19.3373
85 Benzo(g,h,i)perylene	276	24.568	24.568	(1.196)	142458	20.0000	19.3042

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC917.D
Date : 09-MAR-2006 20:47
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2581
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA05.i
Operator: BNA
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC918.D
Report Date: 10-Mar-2006 17:22

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC918.D
Lab Smp Id:
Inj Date : 09-MAR-2006 21:26
Operator : BNA
Smp Info : ICAL,S2582
Misc Info : 50ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\6PTBNA5.m
Meth Date : 10-Mar-2006 17:22 target
Cal Date : 09-MAR-2006 21:26
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSBNA03

Client Smp ID: CURTIS&TOMPKINS
MS Autotune Date: 26-SEP-2005 13:06
Inst ID: MSBNA05.i

Quant Type: ISTD
Cal File: XC918.D
Calibration Sample, Level: 5

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 Pyridine	79	4.509	4.519	(0.633)	186072	50.0000	49.0336
	2 N-Nitrosodimethylamine	42	4.468	4.467	(0.627)	104309	50.0000	47.6614
$	3 2-Fluorophenol	112	5.710	5.720	(0.801)	171602	50.0000	49.1144
$	4 Phenol-d5	99	6.651	6.651	(0.933)	193046	50.0000	48.0030
	5 Phenol	94	6.672	6.662	(0.936)	198624	50.0000	48.0703
	6 Aniline	66	6.765	6.755	(0.949)	83655	50.0000	48.9403
	7 bis(2-Chloroethyl)ether	63	6.786	6.786	(0.952)	119395	50.0000	50.0671
	8 2-Chlorophenol	128	6.900	6.900	(0.968)	163984	50.0000	48.3002
	9 1,3-Dichlorobenzene	146	7.076	7.076	(0.993)	201900	50.0000	48.0568
*	10 1,4-Dichlorobenzene-d4	152	7.128	7.127	(1.000)	96322	40.0000	
	11 1,4-Dichlorobenzene	146	7.148	7.148	(1.003)	193607	50.0000	47.6200
	12 Benzyl alcohol	108	7.262	7.252	(1.019)	99809	50.0000	48.5688
	13 1,2-Dichlorobenzene	146	7.335	7.334	(1.029)	180003	50.0000	47.7289
	14 2-Methylphenol	107	7.355	7.345	(1.032)	119441	50.0000	47.4829
	15 bis(2-Chloroisopropyl) ether	45	7.386	7.386	(1.036)	131849	50.0000	47.2975
	16 4-Methylphenol	107	7.531	7.521	(1.057)	176283	50.0000	47.0319
	17 N-Nitroso-di-n-propylamine	70	7.552	7.541	(1.060)	75657	50.0000	46.8763
	18 Hexachloroethane	117	7.728	7.728	(1.084)	81842	50.0000	47.2253
$	19 Nitrobenzene-d5	82	7.769	7.769	(0.898)	153520	50.0000	47.2250
	20 Nitrobenzene	77	7.800	7.790	(0.902)	158679	50.0000	47.6635

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC918.D
Report Date: 10-Mar-2006 17:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	8.069	8.049	(0.933)	287395	50.0000	47.9884
	22 2,4-Dimethylphenol	122	8.163	8.152	(0.944)	122162	50.0000	47.1374
	23 2-Nitrophenol	139	8.173	8.162	(0.945)	87475	50.0000	46.6731
	24 bis(2-Chloroethoxy)methane	93	8.276	8.266	(0.957)	162890	50.0000	47.4821
	25 Benzoic acid	122	8.276	8.235	(0.957)	39108	50.0000	49.0271
	26 2,4-Dichlorophenol	162	8.452	8.442	(0.977)	140050	50.0000	48.0045
	27 1,2,4-Trichlorobenzene	180	8.556	8.556	(0.989)	154235	50.0000	47.8083
*	28 Naphthalene-d8	136	8.649	8.639	(1.000)	327812	40.0000	
	29 Naphthalene	128	8.670	8.670	(1.002)	427801	50.0000	47.3917
	30 4-Chloroaniline	127	8.711	8.711	(1.007)	175629	50.0000	51.2421
	31 Hexachlorobutadiene	225	8.794	8.783	(1.017)	96833	50.0000	47.5728
	32 Resorcinol	110	9.125	9.115	(1.055)	58899	50.0000	42.2967(A)
	33 4-Chloro-3-methylphenol	107	9.260	9.260	(1.071)	150793	50.0000	46.9899
	34 2-Methylnaphthalene	142	9.508	9.508	(1.099)	333689	50.0000	48.7615
	35 Hexachlorocyclopentadiene	237	9.694	9.694	(0.895)	63982	50.0000	49.5901
	36 2,4,6-Trichlorophenol	196	9.850	9.839	(0.909)	112819	50.0000	47.9910
	37 2,4,5-Trichlorophenol	196	9.901	9.891	(0.914)	114992	50.0000	46.6745
$	38 2-Fluorobiphenyl	172	9.943	9.932	(0.918)	351400	50.0000	48.4077
	39 2-Chloronaphthalene	162	10.129	10.119	(0.935)	329809	50.0000	47.1605
	40 2-Nitroaniline	65	10.243	10.233	(0.946)	93621	50.0000	48.6268
	41 Dimethylphthalate	163	10.429	10.408	(0.963)	454104	50.0000	49.4550
	42 2,6-Dinitrotoluene	165	10.522	10.512	(0.971)	93906	50.0000	48.3050
	43 Acenaphthylene	152	10.657	10.657	(0.984)	508381	50.0000	48.3289
	44 3-Nitroaniline	138	10.760	10.750	(0.993)	83671	50.0000	51.8630
*	45 Acenaphthene-d10	164	10.833	10.822	(1.000)	215341	40.0000	
	46 Acenaphthene	154	10.874	10.864	(1.004)	314476	50.0000	49.5667
	47 2,4-Dinitrophenol	184	10.874	10.874	(1.004)	30814	50.0000	48.7644
	48 4-Nitrophenol	109	10.926	10.916	(1.009)	56080	50.0000	47.0298
	49 Dibenzofuran	168	11.081	11.071	(1.023)	465476	50.0000	47.9278
	50 2,4-Dinitrotoluene	165	11.040	11.030	(1.019)	124567	50.0000	50.1261
	51 2,3,4,6-Tetrachlorophenol	232	11.226	11.216	(1.036)	96725	50.0000	48.8118(A)
	52 Diethylphthalate	149	11.288	11.278	(1.042)	431641	50.0000	48.1979
	53 4-Chlorophenyl-phenylether	204	11.475	11.464	(1.059)	203585	50.0000	48.2217
	54 Fluorene	166	11.516	11.506	(1.063)	387194	50.0000	50.3295
	55 4-Nitroaniline	138	11.537	11.516	(1.065)	69400	50.0000	46.9649
	56 4,6-Dinitro-2-methylphenol	198	11.557	11.537	(0.910)	49075	50.0000	47.0548
	57 N-Nitrosodiphenylamine	169	11.620	11.609	(0.914)	239537	50.0000	47.0386
	58 Azobenzene	77	11.671	11.671	(0.919)	405016	50.0000	46.2001
$	59 2,4,6-Tribromophenol	330	11.816	11.816	(1.091)	51173	50.0000	48.2339
	60 4-Bromophenyl-phenylether	248	12.096	12.085	(0.952)	122803	50.0000	46.7880
	61 Hexachlorobenzene	284	12.220	12.209	(0.962)	123670	50.0000	46.5299
	62 Pentachlorophenol	266	12.448	12.447	(0.980)	62171	50.0000	47.6968
*	63 Phenanthrene-d10	188	12.706	12.696	(1.000)	386340	40.0000	
	64 Phenanthrene	178	12.737	12.727	(1.002)	588693	50.0000	47.9573
	65 Anthracene	178	12.799	12.789	(1.007)	556689	50.0000	47.2800
	66 Carbazole	167	12.986	12.975	(1.022)	459589	50.0000	45.4263
	67 Di-n-butylphthalate	149	13.307	13.307	(1.047)	813954	50.0000	44.5455
	68 Fluoranthene	202	14.238	14.228	(1.121)	678765	50.0000	46.2232
	69 Benzidine	184	14.362	14.363	(0.864)	52259	50.0000	42.0942
	70 Pyrene	202	14.559	14.549	(0.876)	654724	50.0000	48.9149
$	71 Terphenyl-d14	244	14.694	14.683	(0.884)	476503	50.0000	47.9350
	72 Butylbenzylphthalate	149	15.377	15.366	(0.925)	377744	50.0000	48.2376
	73 3,3'-Dichlorobenzidine	252	16.474	16.463	(0.991)	191241	50.0000	48.8747
	74 Benzo(a)anthracene	228	16.577	16.567	(0.998)	615047	50.0000	49.3644

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC918.D
Report Date: 10-Mar-2006 17:22

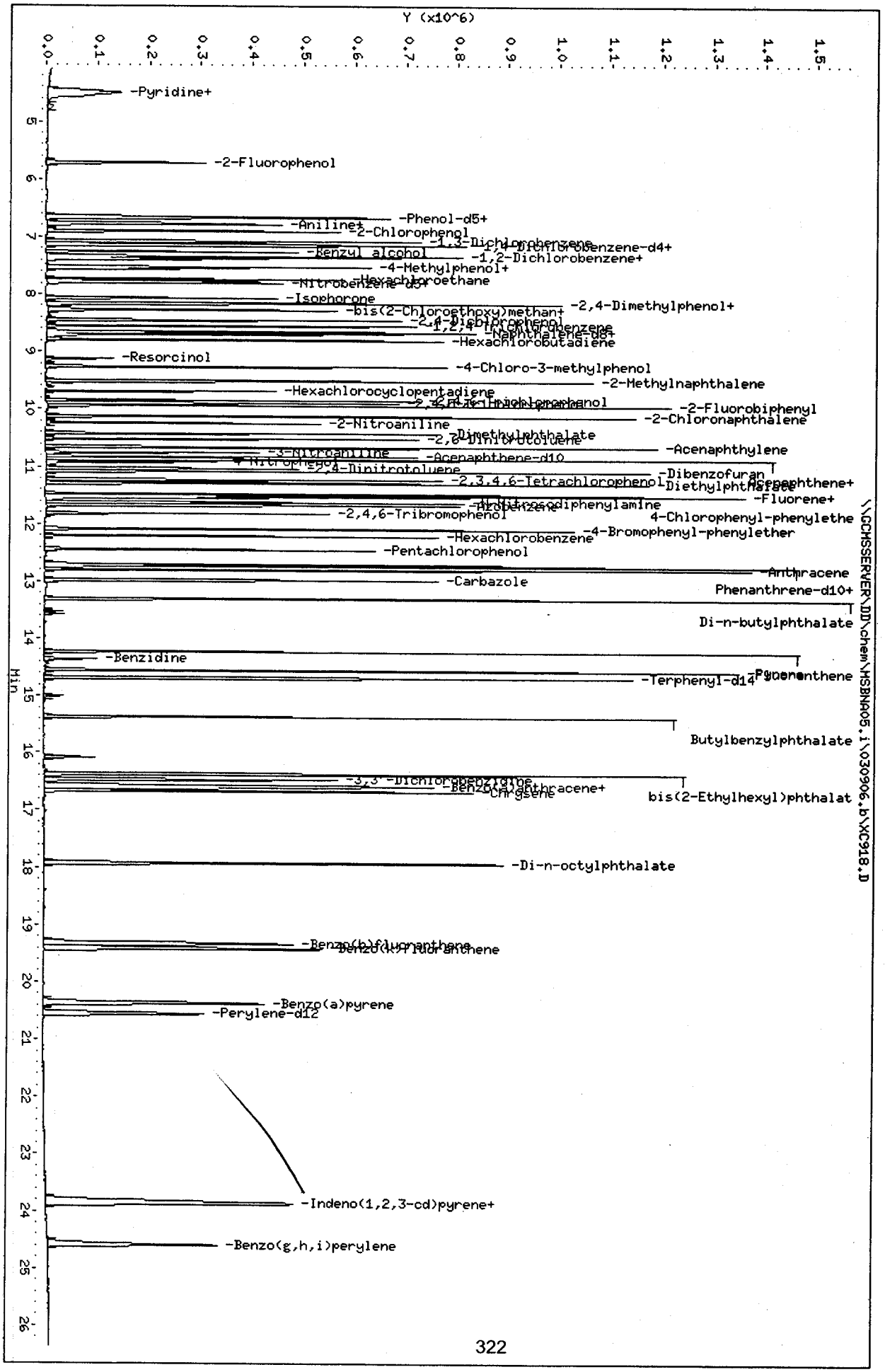
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 75 Chrysene-d12	240	16.619	16.608	(1.000)	312612	40.0000	
76 bis(2-Ethylhexyl)phthalate	149	16.381	16.370	(0.986)	577346	50.0000	47.9897
77 Chrysene	228	16.670	16.660	(1.003)	471078	50.0000	48.6199
78 Di-n-octylphthalate	149	17.933	17.912	(0.873)	958158	50.0000	48.5297
79 Benzo(b)fluoranthene	252	19.330	19.310	(0.941)	568758	50.0000	48.3334
80 Benzo(k)fluoranthene	252	19.424	19.393	(0.945)	551092	50.0000	50.9445(A)
81 Benzo(a)pyrene	252	20.376	20.345	(0.991)	501838	50.0000	50.2770
* 82 Perylene-d12	264	20.552	20.541	(1.000)	293886	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	23.843	23.812	(1.160)	527997	50.0000	50.4047
84 Dibenz(a,h)anthracene	278	23.885	23.853	(1.162)	430012	50.0000	50.2975
85 Benzo(g,h,i)perylene	276	24.599	24.568	(1.197)	389412	50.0000	48.4941

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC918.D
Date : 09-MAR-2006 21:26
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2582
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA05.i
Operator: BNA
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC919.D
Report Date: 10-Mar-2006 17:22

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC919.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 09-MAR-2006 22:05 MS Autotune Date: 26-SEP-2005 13:06
Operator : BNA Inst ID: MSBNA05.i
Smp Info : ICAL,S2583
Misc Info : 80ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\6PTBNA5.m
Meth Date : 10-Mar-2006 17:22 target Quant Type: ISTD
Cal Date : 09-MAR-2006 22:05 Cal File: XC919.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	4.509	4.519	(0.633)	292056	80.0000	81.0290
2 N-Nitrosodimethylamine	42	4.467	4.467	(0.627)	172569	80.0000	78.1322
$ 3 2-Fluorophenol	112	5.720	5.720	(0.803)	268516	80.0000	80.9130
$ 4 Phenol-d5	99	6.662	6.651	(0.935)	307866	80.0000	80.5993
5 Phenol	94	6.672	6.662	(0.936)	319406	80.0000	81.3861
6 Aniline	66	6.765	6.755	(0.949)	127409	80.0000	78.4759
7 bis(2-Chloroethyl)ether	63	6.786	6.786	(0.952)	180620	80.0000	79.7432
8 2-Chlorophenol	128	6.900	6.900	(0.968)	255564	80.0000	79.2517
9 1,3-Dichlorobenzene	146	7.076	7.076	(0.993)	318239	80.0000	79.7505
* 10 1,4-Dichlorobenzene-d4	152	7.127	7.127	(1.000)	91488	40.0000	
11 1,4-Dichlorobenzene	146	7.148	7.148	(1.003)	302576	80.0000	78.3545
12 Benzyl alcohol	108	7.262	7.252	(1.019)	157860	80.0000	80.8764
13 1,2-Dichlorobenzene	146	7.334	7.334	(1.029)	279634	80.0000	78.0644
14 2-Methylphenol	107	7.355	7.345	(1.032)	185947	80.0000	77.8278
15 bis(2-Chloroisopropyl) ether	45	7.386	7.386	(1.036)	207151	80.0000	78.2366
16 4-Methylphenol	107	7.541	7.521	(1.058)	282972	80.0000	79.4854
17 N-Nitroso-di-n-propylamine	70	7.573	7.541	(1.062)	123926	80.0000	80.8404
18 Hexachloroethane	117	7.738	7.728	(1.086)	129864	80.0000	78.8949
$ 19 Nitrobenzene-d5	82	7.780	7.769	(0.899)	247926	80.0000	78.1950
20 Nitrobenzene	77	7.800	7.790	(0.902)	247931	80.0000	76.3567

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC919.D
Report Date: 10-Mar-2006 17:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	8.090	8.049	(0.935)	466201	80.0000	79.8142
	22 2,4-Dimethylphenol	122	8.173	8.152	(0.945)	201200	80.0000	79.5989
	23 2-Nitrophenol	139	8.173	8.162	(0.945)	147083	80.0000	80.4627
	24 bis(2-Chloroethoxy)methane	93	8.276	8.266	(0.957)	260890	80.0000	77.9728
	25 Benzoic acid	122	8.328	8.235	(0.963)	95536	80.0000	80.3459
	26 2,4-Dichlorophenol	162	8.463	8.442	(0.978)	231012	80.0000	81.1863
	27 1,2,4-Trichlorobenzene	180	8.566	8.556	(0.990)	249753	80.0000	79.3745
*	28 Naphthalene-d8	136	8.649	8.639	(1.000)	319724	40.0000	
	29 Naphthalene	128	8.680	8.670	(1.004)	715768	80.0000	81.2984
	30 4-Chloroaniline	127	8.711	8.711	(1.007)	261063	80.0000	78.0954
	31 Hexachlorobutadiene	225	8.794	8.783	(1.017)	158523	80.0000	79.8505
	32 Resorcinol	110	9.135	9.115	(1.056)	123992	80.0000	74.4903(A)
	33 4-Chloro-3-methylphenol	107	9.270	9.260	(1.072)	262432	80.0000	83.8474
	34 2-Methylnaphthalene	142	9.518	9.508	(1.101)	572116	80.0000	85.7174
	35 Hexachlorocyclopentadiene	237	9.694	9.694	(0.895)	114754	80.0000	80.4266
	36 2,4,6-Trichlorophenol	196	9.850	9.839	(0.909)	187859	80.0000	79.3833
	37 2,4,5-Trichlorophenol	196	9.901	9.891	(0.914)	192409	80.0000	77.5814
$	38 2-Fluorobiphenyl	172	9.943	9.932	(0.918)	563232	80.0000	77.0762
	39 2-Chloronaphthalene	162	10.129	10.119	(0.935)	548038	80.0000	77.8479
	40 2-Nitroaniline	65	10.253	10.233	(0.946)	155877	80.0000	80.4274
	41 Dimethylphthalate	163	10.440	10.408	(0.964)	746644	80.0000	80.7772
	42 2,6-Dinitrotoluene	165	10.533	10.512	(0.972)	157475	80.0000	80.4693
	43 Acenaphthylene	152	10.667	10.657	(0.985)	855243	80.0000	80.7656
	44 3-Nitroaniline	138	10.771	10.750	(0.994)	141990	80.0000	87.4300
*	45 Acenaphthene-d10	164	10.833	10.822	(1.000)	216774	40.0000	
	46 Acenaphthene	154	10.874	10.864	(1.004)	523296	80.0000	81.9350
	47 2,4-Dinitrophenol	184	10.885	10.874	(1.005)	58298	80.0000	75.9222
	48 4-Nitrophenol	109	10.936	10.916	(1.010)	95329	80.0000	79.4164
	49 Dibenzofuran	168	11.092	11.071	(1.024)	803225	80.0000	82.1575
	50 2,4-Dinitrotoluene	165	11.050	11.030	(1.020)	201823	80.0000	80.6772
	51 2,3,4,6-Tetrachlorophenol	232	11.226	11.216	(1.036)	163242	80.0000	81.8347(A)
	52 Diethylphthalate	149	11.299	11.278	(1.043)	717747	80.0000	79.6152
	53 4-Chlorophenyl-phenylether	204	11.475	11.464	(1.059)	330860	80.0000	77.8503
	54 Fluorene	166	11.516	11.506	(1.063)	632288	80.0000	81.6447
	55 4-Nitroaniline	138	11.557	11.516	(1.067)	117606	80.0000	79.0612
	56 4,6-Dinitro-2-methylphenol	198	11.568	11.537	(0.910)	88197	80.0000	76.0644
	57 N-Nitrosodiphenylamine	169	11.630	11.609	(0.915)	384716	80.0000	78.6024
	58 Azobenzene	77	11.682	11.671	(0.919)	651386	80.0000	77.3076
$	59 2,4,6-Tribromophenol	330	11.826	11.816	(1.092)	88427	80.0000	82.7973
	60 4-Bromophenyl-phenylether	248	12.096	12.085	(0.952)	201856	80.0000	80.0167
	61 Hexachlorobenzene	284	12.220	12.209	(0.962)	199270	80.0000	78.0052
	62 Pentachlorophenol	266	12.458	12.447	(0.980)	110292	80.0000	78.0131
*	63 Phenanthrene-d10	188	12.706	12.696	(1.000)	371327	40.0000	
	64 Phenanthrene	178	12.737	12.727	(1.002)	937143	80.0000	79.4301
	65 Anthracene	178	12.810	12.789	(1.008)	926117	80.0000	81.8359
	66 Carbazole	167	12.986	12.975	(1.022)	738583	80.0000	75.9539
	67 Di-n-butylphthalate	149	13.317	13.307	(1.048)	1353771	80.0000	77.0838
	68 Fluoranthene	202	14.238	14.228	(1.121)	1113219	80.0000	78.8742
	69 Benzidine	184	14.362	14.363	(0.864)	88787	80.0000	74.0840
	70 Pyrene	202	14.569	14.549	(0.877)	1084517	80.0000	83.9330
$	71 Terphenyl-d14	244	14.693	14.683	(0.884)	760052	80.0000	79.2035
	72 Butylbenzylphthalate	149	15.377	15.366	(0.925)	623130	80.0000	82.4292
	73 3,3'-Dichlorobenzidine	252	16.484	16.463	(0.992)	321620	80.0000	78.5495
	74 Benzo(a)anthracene	228	16.598	16.567	(0.999)	979142	80.0000	81.4077

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC919.D
Report Date: 10-Mar-2006 17:22

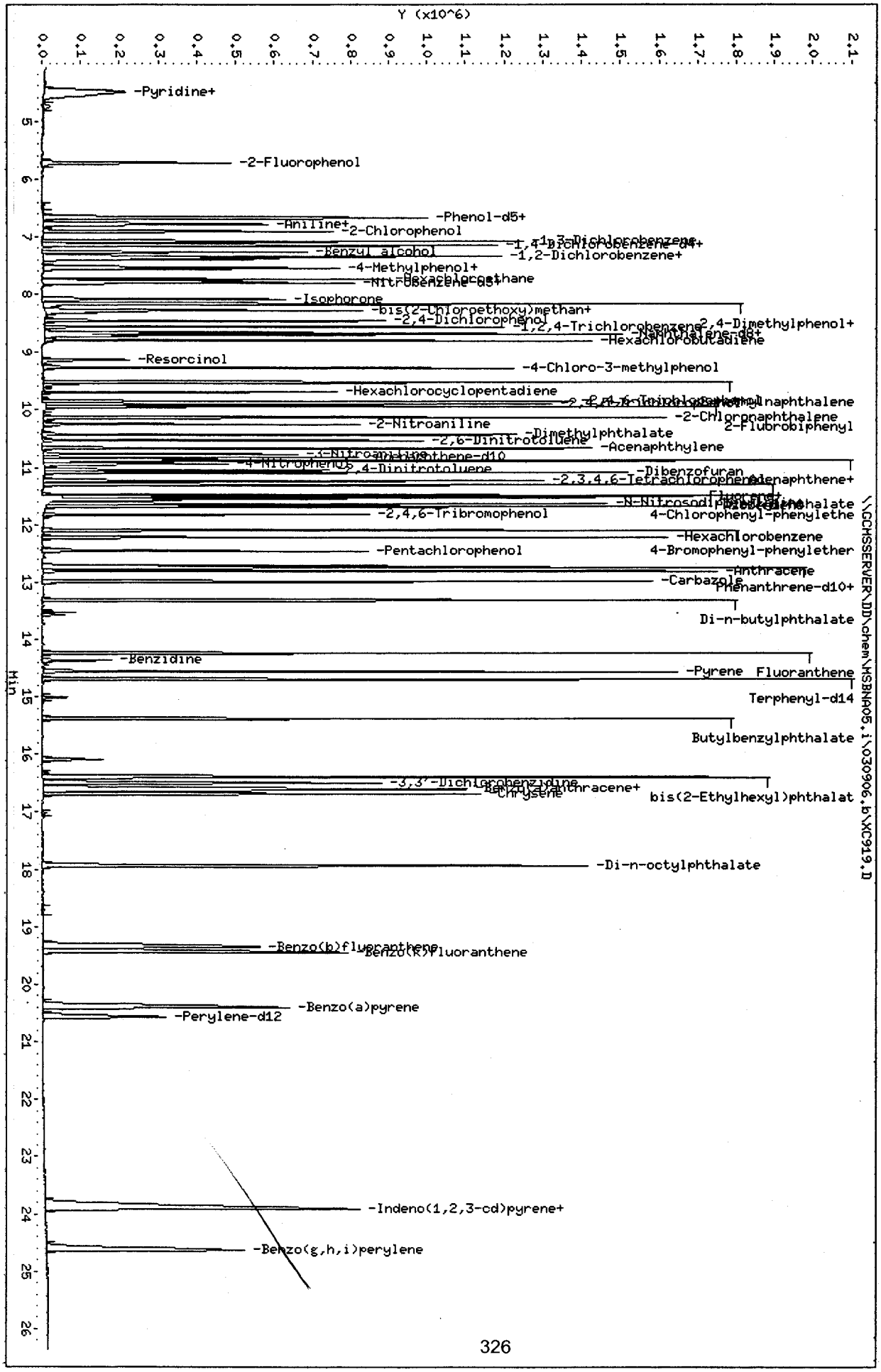
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 75 Chrysene-d12	240	16.619	16.608	(1.000)	301781	40.0000	
76 bis(2-Ethylhexyl)phthalate	149	16.391	16.370	(0.986)	953763	80.0000	82.1233
77 Chrysene	228	16.681	16.660	(1.004)	765728	80.0000	81.8672
78 Di-n-octylphthalate	149	17.933	17.912	(0.872)	1573584	80.0000	80.8579
79 Benzo(b)fluoranthene	252	19.341	19.310	(0.941)	923703	80.0000	79.6369
80 Benzo(k)fluoranthene	252	19.444	19.393	(0.946)	877092	80.0000	82.2584(A)
81 Benzo(a)pyrene	252	20.396	20.345	(0.992)	816708	80.0000	83.0108
* 82 Perylene-d12	264	20.562	20.541	(1.000)	289679	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	23.874	23.812	(1.161)	892310	80.0000	86.4207
84 Dibenz(a,h)anthracene	278	23.916	23.853	(1.163)	726619	80.0000	86.2252
85 Benzo(g,h,i)perylene	276	24.630	24.568	(1.198)	683878	80.0000	86.4013

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC919.D
Date : 09-MAR-2006 22:05
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2583
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA05.i
Operator: BNA
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC920.D
Report Date: 10-Mar-2006 17:22

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC920.D
Lab Smp Id:
Inj Date : 09-MAR-2006 22:45
Operator : BNA
Smp Info : ICAL,S2584
Misc Info : 100ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\6PTBNA5.m
Meth Date : 10-Mar-2006 17:22 target
Cal Date : 09-MAR-2006 22:45
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSBNA03

Client Smp ID: CURTIS&TOMPKINS
MS Autotune Date: 26-SEP-2005 13:06
Inst ID: MSBNA05.i

Quant Type: ISTD
Cal File: XC920.D
Calibration Sample, Level: 7

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	4.519	4.519	(0.633)	384248	100.000	108.1078
2 N-Nitrosodimethylamine	42	4.468	4.467	(0.626)	224985	100.000	100.4510
$ 3 2-Fluorophenol	112	5.720	5.720	(0.801)	351886	100.000	107.5279
$ 4 Phenol-d5	99	6.662	6.651	(0.933)	409473	100.000	108.7091
5 Phenol	94	6.683	6.662	(0.936)	415568	100.000	107.3792
6 Aniline	66	6.776	6.755	(0.949)	170464	100.000	106.4731
7 bis(2-Chloroethyl)ether	63	6.796	6.786	(0.952)	238280	100.000	106.6809
8 2-Chlorophenol	128	6.910	6.900	(0.968)	330663	100.000	103.9837
9 1,3-Dichlorobenzene	146	7.076	7.076	(0.991)	403818	100.000	102.6211
* 10 1,4-Dichlorobenzene-d4	152	7.138	7.127	(1.000)	90218	40.0000	
11 1,4-Dichlorobenzene	146	7.159	7.148	(1.003)	399093	100.000	104.8033
12 Benzyl alcohol	108	7.273	7.252	(1.019)	205162	100.000	106.5902
13 1,2-Dichlorobenzene	146	7.335	7.334	(1.028)	364089	100.000	103.0722
14 2-Methylphenol	107	7.366	7.345	(1.032)	247487	100.000	105.0434
15 bis(2-Chloroisopropyl) ether	45	7.397	7.386	(1.036)	267322	100.000	102.3831
16 4-Methylphenol	107	7.542	7.521	(1.057)	376947	100.000	107.3730
17 N-Nitroso-di-n-propylamine	70	7.573	7.541	(1.061)	162079	100.000	107.2170
18 Hexachloroethane	117	7.738	7.728	(1.084)	170744	100.000	105.1905
$ 19 Nitrobenzene-d5	82	7.780	7.769	(0.899)	323381	100.000	102.1201
20 Nitrobenzene	77	7.811	7.790	(0.903)	338850	100.000	104.4874

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC920.D
Report Date: 10-Mar-2006 17:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	8.101	8.049	(0.937)	617878	100.000	105.9130
	22 2,4-Dimethylphenol	122	8.173	8.152	(0.945)	272186	100.000	107.8164
	23 2-Nitrophenol	139	8.173	8.162	(0.945)	198964	100.000	108.9799
	24 bis(2-Chloroethoxy)methane	93	8.287	8.266	(0.958)	363324	100.000	108.7225
	25 Benzoic acid	122	8.359	8.235	(0.966)	134756	100.000	101.8393
	26 2,4-Dichlorophenol	162	8.463	8.442	(0.978)	303437	100.000	106.7718
	27 1,2,4-Trichlorobenzene	180	8.566	8.556	(0.990)	332993	100.000	105.9607
*	28 Naphthalene-d8	136	8.649	8.639	(1.000)	319327	40.0000	
	29 Naphthalene	128	8.680	8.670	(1.004)	941817	100.000	107.1066
	30 4-Chloroaniline	127	8.722	8.711	(1.008)	378534	100.000	113.3770
	31 Hexachlorobutadiene	225	8.794	8.783	(1.017)	212211	100.000	107.0269
	32 Resorcinol	110	9.136	9.115	(1.056)	181989	100.000	102.6575(A)
	33 4-Chloro-3-methylphenol	107	9.270	9.260	(1.072)	341862	100.000	109.3613
	34 2-Methylnaphthalene	142	9.519	9.508	(1.101)	753077	100.000	112.9702
	35 Hexachlorocyclopentadiene	237	9.694	9.694	(0.895)	154483	100.000	100.9975
	36 2,4,6-Trichlorophenol	196	9.860	9.839	(0.910)	258160	100.000	107.3492
	37 2,4,5-Trichlorophenol	196	9.912	9.891	(0.915)	265435	100.000	105.3180
$	38 2-Fluorobiphenyl	172	9.953	9.932	(0.919)	776652	100.000	104.5856
	39 2-Chloronaphthalene	162	10.140	10.119	(0.936)	758567	100.000	106.0334
	40 2-Nitroaniline	65	10.253	10.233	(0.946)	199521	100.000	101.3031
	41 Dimethylphthalate	163	10.440	10.408	(0.964)	942816	100.000	100.3724
	42 2,6-Dinitrotoluene	165	10.533	10.512	(0.972)	205145	100.000	103.1554
	43 Acenaphthylene	152	10.667	10.657	(0.985)	1148990	100.000	106.7741
	44 3-Nitroaniline	138	10.781	10.750	(0.995)	184043	100.000	111.5152
*	45 Acenaphthene-d10	164	10.833	10.822	(1.000)	220290	40.0000	
	46 Acenaphthene	154	10.885	10.864	(1.005)	737185	100.000	113.5824
	47 2,4-Dinitrophenol	184	10.895	10.874	(1.006)	91470	100.000	106.3731
	48 4-Nitrophenol	109	10.947	10.916	(1.011)	126221	100.000	103.4735
	49 Dibenzofuran	168	11.092	11.071	(1.024)	1019278	100.000	102.5923
	50 2,4-Dinitrotoluene	165	11.050	11.030	(1.020)	259376	100.000	102.0288
	51 2,3,4,6-Tetrachlorophenol	232	11.237	11.216	(1.037)	220232	100.000	108.6422(A)
	52 Diethylphthalate	149	11.309	11.278	(1.044)	969623	100.000	105.8376
	53 4-Chlorophenyl-phenylether	204	11.485	11.464	(1.060)	464857	100.000	107.6337
	54 Fluorene	166	11.526	11.506	(1.064)	821242	100.000	104.3511
	55 4-Nitroaniline	138	11.568	11.516	(1.068)	161569	100.000	106.8820
	56 4,6-Dinitro-2-methylphenol	198	11.578	11.537	(0.911)	124747	100.000	103.3800
	57 N-Nitrosodiphenylamine	169	11.640	11.609	(0.916)	522140	100.000	110.0101
	58 Azobenzene	77	11.682	11.671	(0.919)	867037	100.000	106.1138
$	59 2,4,6-Tribromophenol	330	11.827	11.816	(1.092)	115343	100.000	106.2759
	60 4-Bromophenyl-phenylether	248	12.106	12.085	(0.953)	268509	100.000	109.7610
	61 Hexachlorobenzene	284	12.230	12.209	(0.963)	273467	100.000	110.3918
	62 Pentachlorophenol	266	12.458	12.447	(0.980)	151579	100.000	103.2537
*	63 Phenanthrene-d10	188	12.706	12.696	(1.000)	360086	40.0000	
	64 Phenanthrene	178	12.748	12.727	(1.003)	1255817	100.000	109.7630
	65 Anthracene	178	12.810	12.789	(1.008)	1145767	100.000	104.4058
	66 Carbazole	167	12.996	12.975	(1.023)	1036471	100.000	109.9153
	67 Di-n-butylphthalate	149	13.317	13.307	(1.048)	1833655	100.000	107.6678
	68 Fluoranthene	202	14.249	14.228	(1.121)	1460110	100.000	106.6817
	69 Benzidine	184	14.362	14.363	(0.864)	146350	100.000	123.7446
	70 Pyrene	202	14.569	14.549	(0.876)	1387468	100.000	108.8123
$	71 Terphenyl-d14	244	14.704	14.683	(0.884)	1024338	100.000	108.1690
	72 Butylbenzylphthalate	149	15.387	15.366	(0.925)	813651	100.000	109.0684
	73 3,3'-Dichlorobenzidine	252	16.505	16.463	(0.993)	424793	100.000	102.6583
	74 Benzo(a)anthracene	228	16.598	16.567	(0.998)	1251532	100.000	105.4436

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC920.D
Report Date: 10-Mar-2006 17:22

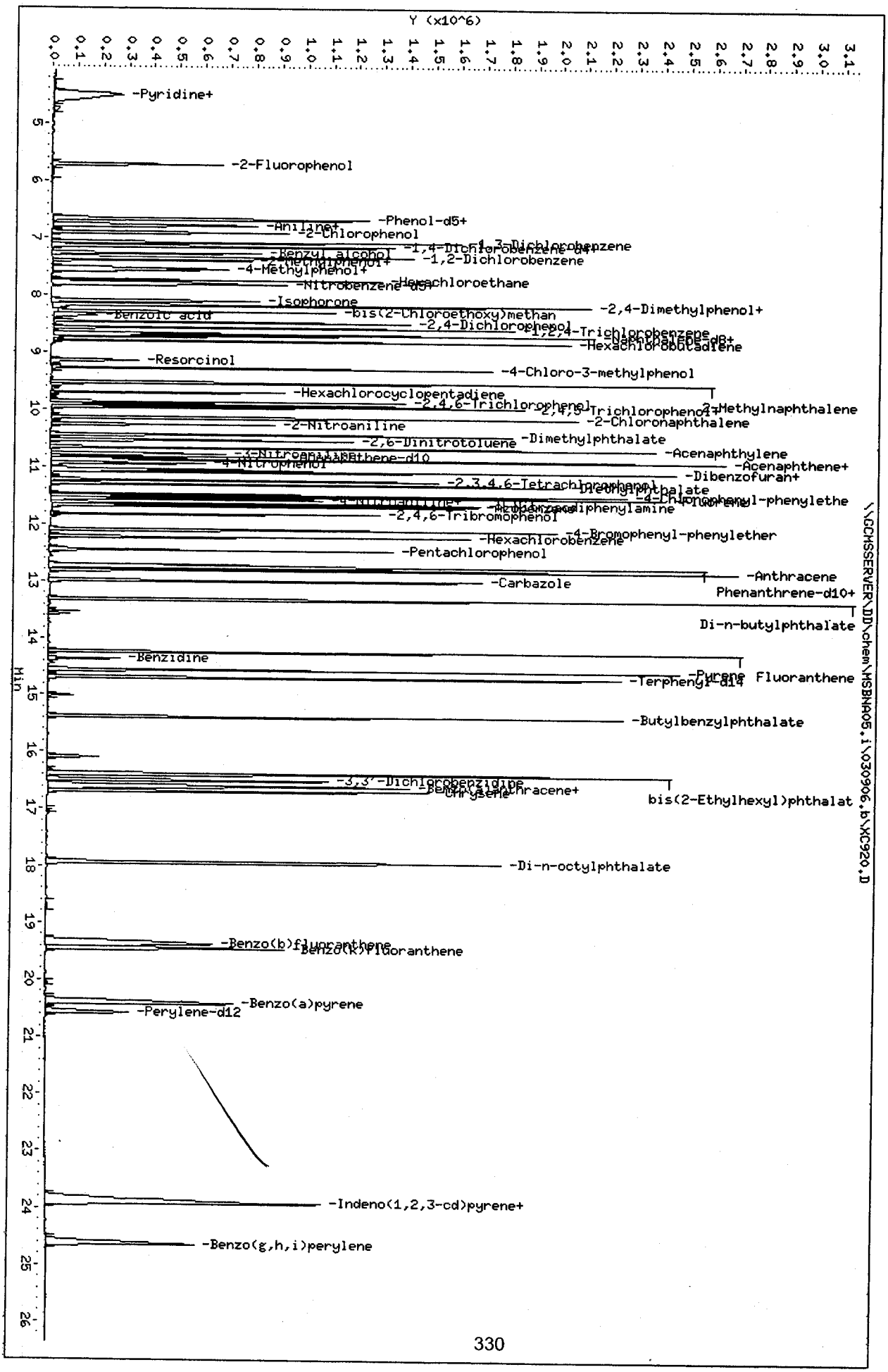
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 75 Chrysene-d12	240	16.629	16.608	(1.000)	297806	40.0000	
76 bis(2-Ethylhexyl)phthalate	149	16.391	16.370	(0.986)	1250805	100.000	109.1375
77 Chrysene	228	16.691	16.660	(1.004)	994416	100.000	107.7363
78 Di-n-octylphthalate	149	17.944	17.912	(0.872)	2036730	100.000	105.1874
79 Benzo(b)fluoranthene	252	19.382	19.310	(0.942)	1253702	100.000	108.6360
80 Benzo(k)fluoranthene	252	19.455	19.393	(0.946)	1078978	100.000	101.7056(A)
81 Benzo(a)pyrene	252	20.407	20.345	(0.992)	1058763	100.000	108.1593
* 82 Perylene-d12	264	20.573	20.541	(1.000)	288217	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	23.905	23.812	(1.162)	1147049	100.000	111.6558
84 Dibenz(a,h)anthracene	278	23.936	23.853	(1.164)	944855	100.000	112.6913
85 Benzo(g,h,i)perylene	276	24.651	24.568	(1.198)	865850	100.000	109.9466

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC920.D
Date : 09-MAR-2006 22:45
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2584
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA05.i
Operator: BNA
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC921.D
Report Date: 10-Mar-2006 17:23

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC921.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 09-MAR-2006 23:26 MS Autotune Date: 26-SEP-2005 13:06
Operator : BNA Inst ID: MSBNA05.i
Smp Info : ICAL,S2585
Misc Info : 120ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\6PTBNA5.m
Meth Date : 10-Mar-2006 17:22 target Quant Type: ISTD
Cal Date : 09-MAR-2006 23:26 Cal File: XC921.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
1 Pyridine	79	4.519	4.519	(0.633)	436282	120.000	133.2568
2 N-Nitrosodimethylamine	42	4.468	4.467	(0.626)	262096	120.000	123.9909
$ 3 2-Fluorophenol	112	5.720	5.720	(0.801)	401376	120.000	133.1518
$ 4 Phenol-d5	99	6.672	6.651	(0.935)	467221	120.000	134.6602
5 Phenol	94	6.683	6.662	(0.936)	470850	120.000	132.0800
6 Aniline	66	6.776	6.755	(0.949)	195718	120.000	132.7133
7 bis(2-Chloroethyl)ether	63	6.796	6.786	(0.952)	269610	120.000	131.0423
8 2-Chlorophenol	128	6.910	6.900	(0.968)	369669	120.000	126.2029
9 1,3-Dichlorobenzene	146	7.076	7.076	(0.991)	458583	120.000	126.5160
* 10 1,4-Dichlorobenzene-d4	152	7.138	7.127	(1.000)	83103	40.0000	
11 1,4-Dichlorobenzene	146	7.159	7.148	(1.003)	451538	120.000	128.7275
12 Benzyl alcohol	108	7.283	7.252	(1.020)	233636	120.000	131.7762
13 1,2-Dichlorobenzene	146	7.335	7.334	(1.028)	410884	120.000	126.2786
14 2-Methylphenol	107	7.366	7.345	(1.032)	277535	120.000	127.8824
15 bis(2-Chloroisopropyl) ether	45	7.397	7.386	(1.036)	304956	120.000	126.7966
16 4-Methylphenol	107	7.552	7.521	(1.058)	419684	120.000	129.7818
17 N-Nitroso-di-n-propylamine	70	7.583	7.541	(1.062)	181385	120.000	130.2611
18 Hexachloroethane	117	7.738	7.728	(1.084)	196579	120.000	131.4755
$ 19 Nitrobenzene-d5	82	7.790	7.769	(0.901)	379727	120.000	125.0367
20 Nitrobenzene	77	7.811	7.790	(0.903)	384595	120.000	123.6600

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC921.D
Report Date: 10-Mar-2006 17:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	8.101	8.049	(0.937)	724330	120.000	129.4650
	22 2,4-Dimethylphenol	122	8.183	8.152	(0.946)	315679	120.000	130.3869
	23 2-Nitrophenol	139	8.183	8.162	(0.946)	232323	120.000	132.6886
	24 bis(2-Chloroethoxy)methane	93	8.287	8.266	(0.958)	403272	120.000	125.8325
	25 Benzoic acid	122	8.370	8.235	(0.968)	159978	120.000	119.3542
	26 2,4-Dichlorophenol	162	8.463	8.442	(0.978)	342490	120.000	125.6624
	27 1,2,4-Trichlorobenzene	180	8.566	8.556	(0.990)	370542	120.000	122.9466
*	28 Naphthalene-d8	136	8.649	8.639	(1.000)	306243	40.0000	
	29 Naphthalene	128	8.680	8.670	(1.004)	1079660	120.000	128.0284
	30 4-Chloroaniline	127	8.722	8.711	(1.008)	413803	120.000	129.2359
	31 Hexachlorobutadiene	225	8.794	8.783	(1.017)	237258	120.000	124.7715
	32 Resorcinol	110	9.146	9.115	(1.057)	207697	120.000	119.4081(A)
	33 4-Chloro-3-methylphenol	107	9.270	9.260	(1.072)	401728	120.000	134.0029
	34 2-Methylnaphthalene	142	9.518	9.508	(1.101)	855148	120.000	133.7627
	35 Hexachlorocyclopentadiene	237	9.694	9.694	(0.895)	179877	120.000	118.7962
	36 2,4,6-Trichlorophenol	196	9.860	9.839	(0.910)	291742	120.000	128.4937
	37 2,4,5-Trichlorophenol	196	9.912	9.891	(0.915)	299036	120.000	125.6728
$	38 2-Fluorobiphenyl	172	9.953	9.932	(0.919)	884470	120.000	126.1542
	39 2-Chloronaphthalene	162	10.140	10.119	(0.936)	849245	120.000	125.7346
	40 2-Nitroaniline	65	10.264	10.233	(0.947)	235603	120.000	126.7034
	41 Dimethylphthalate	163	10.450	10.408	(0.965)	1105620	120.000	124.6713
	42 2,6-Dinitrotoluene	165	10.543	10.512	(0.973)	228299	120.000	121.5930
	43 Acenaphthylene	152	10.667	10.657	(0.985)	1276606	120.000	125.6550
	44 3-Nitroaniline	138	10.781	10.750	(0.995)	200216	120.000	128.4952
*	45 Acenaphthene-d10	164	10.833	10.822	(1.000)	207980	40.0000	
	46 Acenaphthene	154	10.885	10.864	(1.005)	849133	120.000	138.5746
	47 2,4-Dinitrophenol	184	10.895	10.874	(1.006)	98483	120.000	118.1720
	48 4-Nitrophenol	109	10.957	10.916	(1.011)	147051	120.000	127.6847
	49 Dibenzofuran	168	11.092	11.071	(1.024)	1156357	120.000	123.2785
	50 2,4-Dinitrotoluene	165	11.061	11.030	(1.021)	282189	120.000	117.5726
	51 2,3,4,6-Tetrachlorophenol	232	11.237	11.216	(1.037)	245575	120.000	128.3145(A)
	52 Diethylphthalate	149	11.309	11.278	(1.044)	1016205	120.000	117.4875
	53 4-Chlorophenyl-phenylether	204	11.485	11.464	(1.060)	507232	120.000	124.3966
	54 Fluorene	166	11.526	11.506	(1.064)	907983	120.000	122.2016
	55 4-Nitroaniline	138	11.578	11.516	(1.069)	178517	120.000	125.0833
	56 4,6-Dinitro-2-methylphenol	198	11.589	11.537	(0.912)	142820	120.000	122.3526
	57 N-Nitrosodiphenylamine	169	11.640	11.609	(0.916)	554627	120.000	125.2874
	58 Azobenzene	77	11.692	11.671	(0.920)	1016750	120.000	133.4165
$	59 2,4,6-Tribromophenol	330	11.837	11.816	(1.093)	138660	120.000	135.3219
	60 4-Bromophenyl-phenylether	248	12.106	12.085	(0.953)	305946	120.000	134.0896
	61 Hexachlorobenzene	284	12.230	12.209	(0.963)	298226	120.000	129.0739
	62 Pentachlorophenol	266	12.458	12.447	(0.980)	170806	120.000	119.7394
*	63 Phenanthrene-d10	188	12.706	12.696	(1.000)	335850	40.0000	
	64 Phenanthrene	178	12.748	12.727	(1.003)	1369528	120.000	128.3398
	65 Anthracene	178	12.810	12.789	(1.008)	1306325	120.000	127.6264
	66 Carbazole	167	12.996	12.975	(1.023)	1152287	120.000	131.0155
	67 Di-n-butylphthalate	149	13.317	13.307	(1.048)	1982094	120.000	124.7824
	68 Fluoranthene	202	14.249	14.228	(1.121)	1601639	120.000	125.4672
	69 Benzidine	184	14.373	14.363	(0.864)	128586	120.000	115.2569
	70 Pyrene	202	14.569	14.549	(0.876)	1586663	120.000	131.9106
$	71 Terphenyl-d14	244	14.704	14.683	(0.884)	1141573	120.000	127.7919
	72 Butylbenzylphthalate	149	15.387	15.366	(0.925)	910241	120.000	129.3473
	73 3,3'-Dichlorobenzidine	252	16.505	16.463	(0.993)	470496	120.000	119.5368
	74 Benzo(a)anthracene	228	16.608	16.567	(0.999)	1392668	120.000	124.3844

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC921.D
Report Date: 10-Mar-2006 17:23

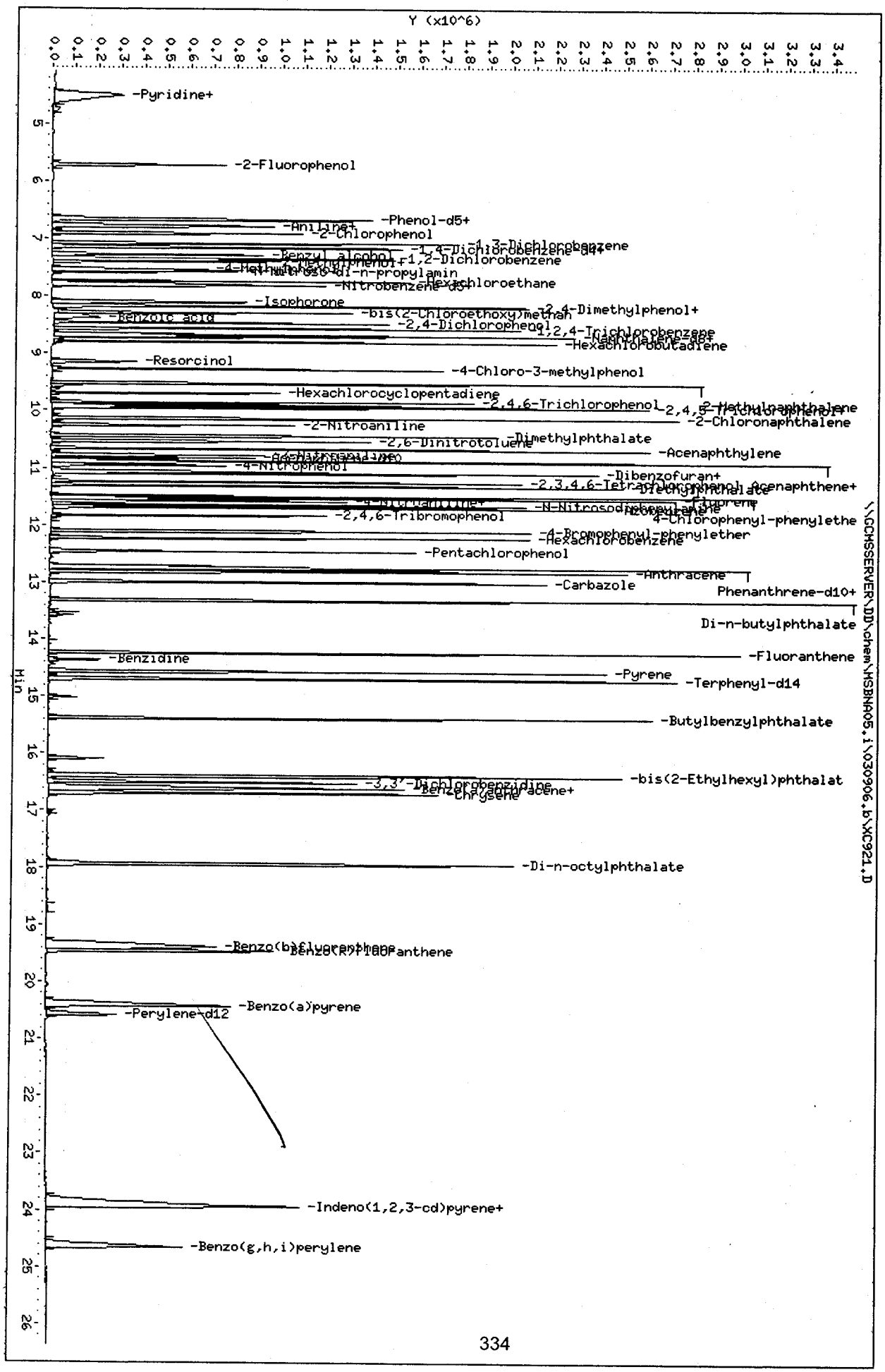
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 75 Chrysene-d12	240	16.629	16.608	(1.000)	280927	40.0000	
76 bis(2-Ethylhexyl)phthalate	149	16.401	16.370	(0.986)	1422232	120.000	131.5512
77 Chrysene	228	16.702	16.660	(1.004)	1101948	120.000	126.5596
78 Di-n-octylphthalate	149	17.944	17.912	(0.872)	2313848	120.000	129.5449
79 Benzo(b)fluoranthene	252	19.393	19.310	(0.943)	1429307	120.000	134.2641
80 Benzo(k)fluoranthene	252	19.465	19.393	(0.946)	1175259	120.000	120.0940(A)
81 Benzo(a)pyrene	252	20.417	20.345	(0.992)	1175206	120.000	130.1471
* 82 Perylene-d12	264	20.573	20.541	(1.000)	265867	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	23.916	23.812	(1.163)	1199120	120.000	126.5369
84 Dibenz(a,h)anthracene	278	23.947	23.853	(1.164)	1003439	120.000	129.7392
85 Benzo(g,h,i)perylene	276	24.651	24.568	(1.198)	877756	120.000	120.8282

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC921.D
Date : 09-MAR-2006 23:26
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2585
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA05.i
Operator: BNA
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC922.D
Report Date: 10-Mar-2006 17:23

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC922.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 10-MAR-2006 00:05 MS Autotune Date: 26-SEP-2005 13:06
Operator : BNA Inst ID: MSBNA05.i
Smp Info : ICAL,S2586
Misc Info : 160ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\6PTBNA5.m
Meth Date : 10-Mar-2006 17:23 target Quant Type: ISTD
Cal Date : 10-MAR-2006 00:05 Cal File: XC922.D
Als bottle: 10 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	4.519	4.519	(0.633)	570444	160.000	173.4065
2 N-Nitrosodimethylamine	42	4.478	4.467	(0.627)	346407	160.000	158.0710
$ 3 2-Fluorophenol	112	5.720	5.720	(0.801)	531838	160.000	175.5923
$ 4 Phenol-d5	99	6.683	6.651	(0.936)	627595	160.000	180.0225
5 Phenol	94	6.693	6.662	(0.938)	625484	160.000	174.6228
6 Aniline	66	6.786	6.755	(0.951)	254011	160.000	171.4219
7 bis(2-Chloroethyl)ether	63	6.807	6.786	(0.954)	365579	160.000	176.8426
8 2-Chlorophenol	128	6.910	6.900	(0.968)	493574	160.000	167.7022
9 1,3-Dichlorobenzene	146	7.076	7.076	(0.991)	623556	160.000	171.2116
* 10 1,4-Dichlorobenzene-d4	152	7.138	7.127	(1.000)	83500	40.0000	
11 1,4-Dichlorobenzene	146	7.159	7.148	(1.003)	616717	160.000	174.9820
12 Benzyl alcohol	108	7.293	7.252	(1.022)	314234	160.000	176.3927
13 1,2-Dichlorobenzene	146	7.345	7.334	(1.029)	575696	160.000	176.0897
14 2-Methylphenol	107	7.376	7.345	(1.033)	387092	160.000	177.5160
15 bis(2-Chloroisopropyl) ether	45	7.397	7.386	(1.036)	411412	160.000	170.2462
16 4-Methylphenol	107	7.542	7.521	(1.057)	571746	160.000	175.9644
17 N-Nitroso-di-n-propylamine	70	7.593	7.541	(1.064)	249891	160.000	178.6053
18 Hexachloroethane	117	7.738	7.728	(1.084)	268110	160.000	178.4642
$ 19 Nitrobenzene-d5	82	7.790	7.769	(0.900)	506486	160.000	164.6703
20 Nitrobenzene	77	7.821	7.790	(0.903)	536666	160.000	170.3773

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC922.D
Report Date: 10-Mar-2006 17:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	8.121	8.049	(0.938)	976624	160.000	172.3555
	22 2,4-Dimethylphenol	122	8.183	8.152	(0.945)	438951	160.000	179.0137
	23 2-Nitrophenol	139	8.183	8.162	(0.945)	312235	160.000	176.0779
	24 bis(2-Chloroethoxy)methane	93	8.297	8.266	(0.958)	595117	160.000	183.3492
	25 Benzoic acid	122	8.411	8.235	(0.971)	233273	160.000	159.4333(M)
	26 2,4-Dichlorophenol	162	8.473	8.442	(0.978)	478276	160.000	173.2678
	27 1,2,4-Trichlorobenzene	180	8.566	8.556	(0.989)	523728	160.000	171.5801
*	28 Naphthalene-d8	136	8.659	8.639	(1.000)	310159	40.0000	
	29 Naphthalene	128	8.690	8.670	(1.004)	1586704	160.000	185.7791
	30 4-Chloroaniline	127	8.732	8.711	(1.008)	596857	160.000	184.0525
	31 Hexachlorobutadiene	225	8.804	8.783	(1.017)	339970	160.000	176.5294
	32 Resorcinol	110	9.156	9.115	(1.057)	296364	160.000	162.3017(A)
	33 4-Chloro-3-methylphenol	107	9.280	9.260	(1.072)	545282	160.000	179.5913
	34 2-Methylnaphthalene	142	9.529	9.508	(1.100)	1263366	160.000	195.1214
	35 Hexachlorocyclopentadiene	237	9.705	9.694	(0.896)	271876	160.000	160.1841
	36 2,4,6-Trichlorophenol	196	9.860	9.839	(0.910)	403576	160.000	181.3453
	37 2,4,5-Trichlorophenol	196	9.922	9.891	(0.916)	424261	160.000	181.9068
$	38 2-Fluorobiphenyl	172	9.953	9.932	(0.919)	1168064	160.000	169.9743
	39 2-Chloronaphthalene	162	10.139	10.119	(0.936)	1192839	160.000	180.1780
	40 2-Nitroaniline	65	10.264	10.233	(0.947)	298933	160.000	164.0134
	41 Dimethylphthalate	163	10.460	10.408	(0.966)	1470217	160.000	169.1376
	42 2,6-Dinitrotoluene	165	10.553	10.512	(0.974)	311190	160.000	169.0940
	43 Acenaphthylene	152	10.678	10.657	(0.986)	1826438	160.000	183.4112
	44 3-Nitroaniline	138	10.792	10.750	(0.996)	261321	160.000	171.1042
*	45 Acenaphthene-d10	164	10.833	10.822	(1.000)	203856	40.0000	
	46 Acenaphthene	154	10.885	10.864	(1.005)	1159216	160.000	193.0058
	47 2,4-Dinitrophenol	184	10.905	10.874	(1.007)	139471	160.000	159.2108
	48 4-Nitrophenol	109	10.968	10.916	(1.012)	193899	160.000	171.7689
	49 Dibenzofuran	168	11.102	11.071	(1.025)	1604335	160.000	174.4973
	50 2,4-Dinitrotoluene	165	11.071	11.030	(1.022)	377785	160.000	160.5865
	51 2,3,4,6-Tetrachlorophenol	232	11.247	11.216	(1.038)	350804	160.000	187.0054(A)
	52 Diethylphthalate	149	11.319	11.278	(1.045)	1348151	160.000	159.0183
	53 4-Chlorophenyl-phenylether	204	11.495	11.464	(1.061)	738878	160.000	184.8727
	54 Fluorene	166	11.537	11.506	(1.065)	1276995	160.000	175.3422
	55 4-Nitroaniline	138	11.599	11.516	(1.071)	231883	160.000	165.7627
	56 4,6-Dinitro-2-methylphenol	198	11.599	11.537	(0.912)	194612	160.000	158.3358
	57 N-Nitrosodiphenylamine	169	11.651	11.609	(0.916)	747266	160.000	169.8444
	58 Azobenzene	77	11.692	11.671	(0.919)	1275513	160.000	168.4029
$	59 2,4,6-Tribromophenol	330	11.837	11.816	(1.093)	182025	160.000	181.2367
	60 4-Bromophenyl-phenylether	248	12.106	12.085	(0.952)	406781	160.000	179.3826
	61 Hexachlorobenzene	284	12.230	12.209	(0.962)	411842	160.000	179.3465
	62 Pentachlorophenol	266	12.468	12.447	(0.980)	250746	160.000	159.5050
*	63 Phenanthrene-d10	188	12.717	12.696	(1.000)	333792	40.0000	
	64 Phenanthrene	178	12.748	12.727	(1.002)	1911867	160.000	180.2676
	65 Anthracene	178	12.820	12.789	(1.008)	1797964	160.000	176.7419
	66 Carbazole	167	12.996	12.975	(1.022)	1624069	160.000	185.7958
	67 Di-n-butylphthalate	149	13.317	13.307	(1.047)	2894845	160.000	183.3681
	68 Fluoranthene	202	14.259	14.228	(1.121)	2398473	160.000	189.0470
	69 Benzidine	184	14.373	14.363	(0.864)	189742	160.000	165.4630
	70 Pyrene	202	14.580	14.549	(0.876)	2149637	160.000	173.8698
$	71 Terphenyl-d14	244	14.704	14.683	(0.884)	1605740	160.000	174.8795
	72 Butylbenzylphthalate	149	15.397	15.366	(0.925)	1287445	160.000	177.9892
	73 3,3'-Dichlorobenzidine	252	16.526	16.463	(0.993)	650147	160.000	159.5928
	74 Benzo(a)anthracene	228	16.619	16.567	(0.999)	1901092	160.000	165.1907

3/13/06

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC922.D
Report Date: 10-Mar-2006 17:23

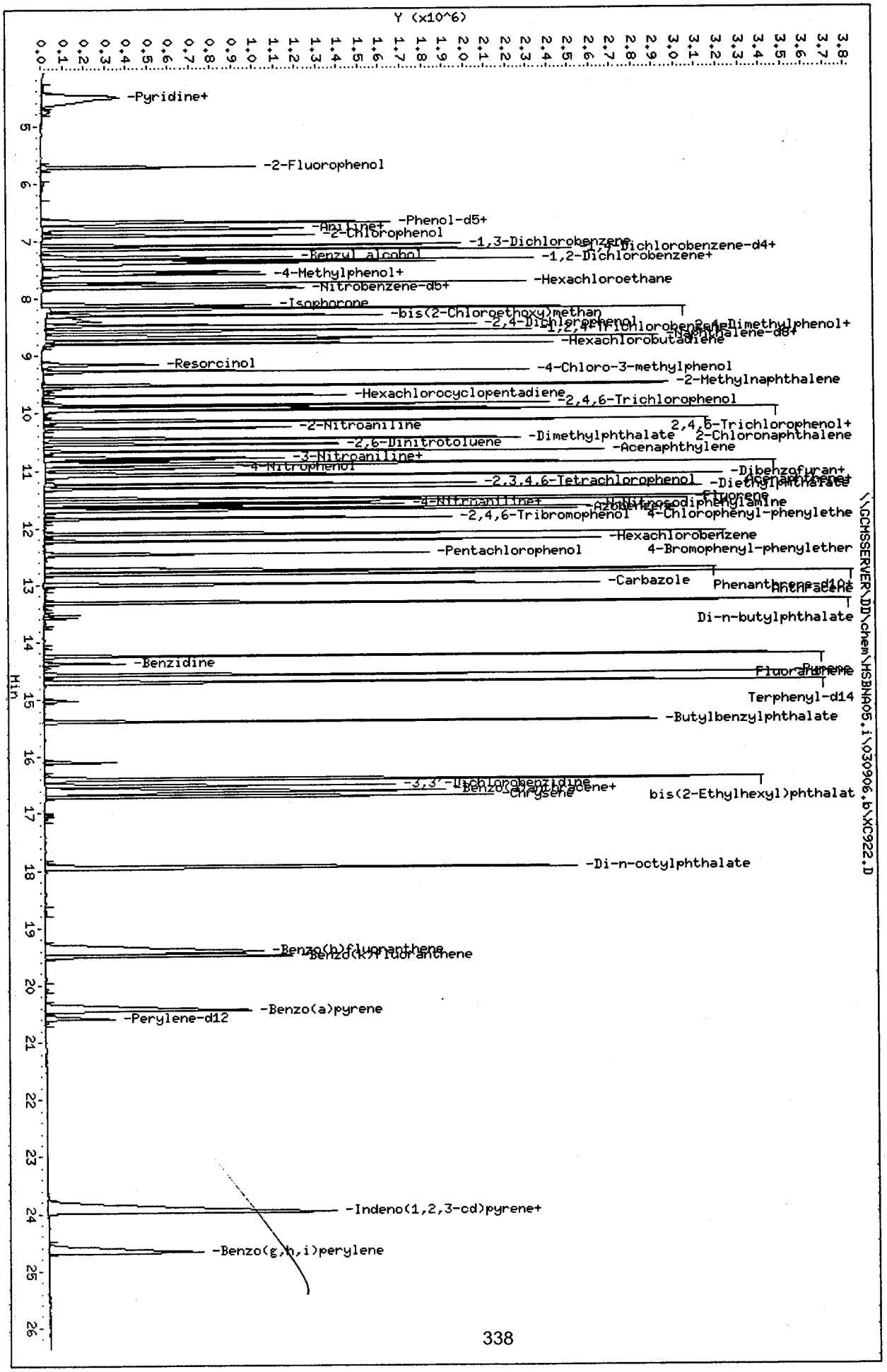
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 75 Chrysene-d12	240	16.639	16.608	(1.000)	288755	40.0000	
76 bis(2-Ethylhexyl)phthalate	149	16.401	16.370	(0.986)	1971838	160.000	177.4433
77 Chrysene	228	16.712	16.660	(1.004)	1546077	160.000	172.7544
78 Di-n-octylphthalate	149	17.954	17.912	(0.872)	3170503	160.000	169.3759
79 Benzo(b)fluoranthene	252	19.413	19.310	(0.943)	2046584	160.000	183.4435
80 Benzo(k)fluoranthene	252	19.496	19.393	(0.947)	1552409	160.000	151.3673(A)
81 Benzo(a)pyrene	252	20.448	20.345	(0.993)	1632410	160.000	172.4995
* 82 Perylene-d12	264	20.583	20.541	(1.000)	278629	40.0000	
83 Indeno(1,2,3-cd)pyrene	276	23.947	23.812	(1.163)	1661465	160.000	167.2954
84 Dibenz(a,h)anthracene	278	23.978	23.853	(1.165)	1396191	160.000	172.2516
85 Benzo(g,h,i)perylene	276	24.682	24.568	(1.199)	1237623	160.000	162.5627

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\030906.b\XC922.D
Date : 10-MAR-2006 00:05
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,S2586
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA05.i
Operator: BNA
Column diameter: 0.25



CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185586 MSBNA Water
EPA 8270C

Inst : MSBNA05 IDF : 1.0
Seqnum : 546117603004 File : xcm04 Time : 22-MAR-2006 17:44
Cal : 546098496001 Caldate: 09-MAR-2006
Standards: S2582

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Phenol	1.7159	1.5115	50.00	44.04	ng	-12	20	0.0500	
bis(2-Chloroethyl)ether	0.9903	0.8207	50.00	41.44	ng	-17	30	0.0500	
2-Chlorophenol	1.4099	1.3321	50.00	47.24	ng	-6	30	0.0500	
1,3-Dichlorobenzene	1.7447	1.7110	50.00	49.04	ng	-2	30	0.0500	
1,4-Dichlorobenzene	1.6884	1.6854	50.00	49.91	ng	0	20	0.0500	
Benzyl alcohol	0.8534	0.8134	50.00	47.65	ng	-5	30	0.0500	
1,2-Dichlorobenzene	1.5661	1.4968	50.00	47.79	ng	-4	30	0.0500	
2-Methylphenol	1.0446	0.9933	50.00	47.55	ng	-5	30	0.0500	
bis(2-Chloroisopropyl) ether	1.1576	0.7038	50.00	30.40	ng	**-39**	30	0.0500	c- ***
4-Methylphenol	1.5565	1.4717	50.00	47.28	ng	-5	30	0.0500	
N-Nitroso-di-n-propylamine	0.6702	0.5707	50.00	42.57	ng	-15	30	0.0500	
Hexachloroethane	0.7197	0.6052	50.00	42.04	ng	-16	30	0.0500	
Nitrobenzene	0.4062	0.3643	50.00	44.85	ng	-10	30	0.0500	
Isophorone	0.7308	0.6361	50.00	43.52	ng	-13	30	0.0500	
2-Nitrophenol	0.2287	0.2352	50.00	51.41	ng	3	20	0.0500	
2,4-Dimethylphenol	0.3162	0.3407	50.00	53.86	ng	8	30	0.0500	
bis(2-Chloroethoxy)methane	0.4186	0.3388	50.00	40.47	ng	-19	30	0.0500	
Benzoic acid	0.1552	0.1006	50.00	50.14	ng	0	40	0.0500	
2,4-Dichlorophenol	0.3560	0.3797	50.00	53.33	ng	7	20	0.0500	
1,2,4-Trichlorobenzene	0.3937	0.4154	50.00	52.76	ng	6	30	0.0500	
Naphthalene	1.1015	1.1171	50.00	50.71	ng	1	30	0.0500	
4-Chloroaniline	0.4182	0.4336	50.00	51.84	ng	4	30	0.0500	m
Hexachlorobutadiene	0.2484	0.2538	50.00	51.09	ng	2	20	0.0500	
4-Chloro-3-methylphenol	0.3916	0.3817	50.00	48.73	ng	-3	20	0.0500	
2-Methylnaphthalene	0.8350	0.9130	50.00	54.67	ng	9	30	0.0500	
Hexachlorocyclopentadiene	0.2461	0.2162	50.00	45.80	ng	-8	40	0.0500	
2,4,6-Trichlorophenol	0.4367	0.4407	50.00	50.46	ng	1	20	0.0500	
2,4,5-Trichlorophenol	0.4576	0.4729	50.00	51.67	ng	3	30	0.0500	
2-Chloronaphthalene	1.2990	1.2792	50.00	49.24	ng	-2	30	0.0500	
2-Nitroaniline	0.3576	0.3288	50.00	45.97	ng	-8	30	0.0500	
Dimethylphthalate	1.7056	1.6605	50.00	48.68	ng	-3	30	0.0500	
2,6-Dinitrotoluene	0.3611	0.3544	50.00	49.07	ng	-2	30	0.0500	
Acenaphthylene	1.9540	1.9587	50.00	50.12	ng	0	30	0.0500	
3-Nitroaniline	0.2997	0.2819	50.00	47.04	ng	-6	30	0.0500	
Acenaphthene	1.1785	1.1986	50.00	50.85	ng	2	20	0.0500	
2,4-Dinitrophenol	0.1310	0.1000	50.00	44.79	ng	-10	40	0.0500	
4-Nitrophenol	0.2215	0.2363	50.00	53.33	ng	7	40	0.0500	
Dibenzofuran	1.8040	1.8911	50.00	52.41	ng	5	30	0.0500	
2,4-Dinitrotoluene	0.4616	0.4467	50.00	48.38	ng	-3	30	0.0500	
Diethylphthalate	1.6635	1.6843	50.00	50.62	ng	1	30	0.0500	
Fluorene	1.4290	1.5062	50.00	52.70	ng	5	30	0.0500	
4-Chlorophenyl-phenylether	0.7842	0.8506	50.00	54.23	ng	8	40	0.0500	
4-Nitroaniline	0.2745	0.2464	50.00	44.88	ng	-10	30	0.0500	
4,6-Dinitro-2-methylphenol	0.1205	0.0964	50.00	45.29	ng	-9	30	0.0500	
N-Nitrosodiphenylamine	0.5272	0.5256	50.00	49.85	ng	0	20	0.0500	
4-Bromophenyl-phenylether	0.2717	0.2981	50.00	54.85	ng	10	30	0.0500	
Hexachlorobenzene	0.2752	0.3104	50.00	56.40	ng	13	30	0.0500	
Pentachlorophenol	0.1516	0.1348	50.00	49.46	ng	-1	20	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Phenanthrene	1.2709	1.2832	50.00	50.48	ng	1	30	0.0500	
Anthracene	1.2191	1.2661	50.00	51.93	ng	4	30	0.0500	
Di-n-butylphthalate	1.8918	1.6708	50.00	44.16	ng	-12	30	0.0500	
Fluoranthene	1.5204	1.4953	50.00	49.18	ng	-2	20	0.0500	
Pyrene	1.7127	1.6434	50.00	47.98	ng	-4	30	0.0500	
Butylbenzylphthalate	1.0020	0.8322	50.00	41.53	ng	-17	30	0.0500	
3,3'-Dichlorobenzidine	0.5094	0.5021	50.00	49.90	ng	0	40	0.0500	
Benzo(a)anthracene	1.5942	1.6019	50.00	50.24	ng	0	30	0.0500	
bis(2-Ethylhexyl)phthalate	1.5394	1.3279	50.00	43.13	ng	-14	30	0.0500	
Chrysene	1.2397	1.2215	50.00	49.27	ng	-1	30	0.0500	
Di-n-octylphthalate	2.6873	2.2291	50.00	41.48	ng	-17	20	0.0500	
Benzo(b)fluoranthene	1.6016	1.5876	50.00	49.56	ng	-1	30	0.0500	
Benzo(k)fluoranthene	1.4723	1.4905	50.00	50.62	ng	1	30	0.0500	
Benzo(a)pyrene	1.3585	1.3841	50.00	50.94	ng	2	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.4257	1.6371	50.00	57.41	ng	15	30	0.0500	
Dibenz(a,h)anthracene	1.1636	1.3760	50.00	59.13	ng	18	30	0.0500	
Benzo(g,h,i)perylene	1.0930	1.1648	50.00	53.29	ng	7	30	0.0500	
2-Fluorophenol	1.4509	1.2542	50.00	43.22	ng	-14	30	0.0500	
Phenol-d5	1.6700	1.4368	50.00	43.02	ng	-14	30	0.0500	
Nitrobenzene-d5	0.3967	0.3645	50.00	45.95	ng	-8	30	0.0500	
2-Fluorobiphenyl	1.3484	1.3639	50.00	50.58	ng	1	30	0.0500	
2,4,6-Tribromophenol	0.1971	0.2363	50.00	59.95	ng	20	30	0.0500	
Terphenyl-d14	1.2719	1.3151	50.00	51.70	ng	3	30	0.0500	

-=low bias c=CCV m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185586 MSBNA Water
EPA 8270C

Inst : MSBNA04
Seqnum : 536118717002
Cal : 536108715001
Standards: S2582

File : wcn02
Caldate: 16-MAR-2006

IDF : 1.0
Time : 23-MAR-2006 10:59

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Phenol	1.8680	1.8883	50.00	50.54	ng	1	20	0.0500	
bis(2-Chloroethyl)ether	1.2832	1.1875	50.00	46.27	ng	-7	30	0.0500	
2-Chlorophenol	1.4013	1.4119	50.00	50.38	ng	1	30	0.0500	
1,3-Dichlorobenzene	1.5302	1.5609	50.00	51.00	ng	2	30	0.0500	
1,4-Dichlorobenzene	1.4452	1.4963	50.00	51.77	ng	4	20	0.0500	
Benzyl alcohol	1.1212	1.0840	50.00	48.34	ng	-3	30	0.0500	
1,2-Dichlorobenzene	1.4322	1.4688	50.00	51.28	ng	3	30	0.0500	
2-Methylphenol	1.2064	1.2007	50.00	49.76	ng	0	30	0.0500	
bis(2-Chloroisopropyl) ether	2.4525	2.4173	50.00	39.89	ng	-20	30	0.0500	
4-Methylphenol	1.9494	1.8739	50.00	48.06	ng	-4	30	0.0500	
N-Nitroso-di-n-propylamine	1.1009	1.0839	50.00	49.23	ng	-2	30	0.0500	
Hexachloroethane	0.6428	0.6547	50.00	50.93	ng	2	30	0.0500	
Nitrobenzene	0.4151	0.4283	50.00	51.59	ng	3	30	0.0500	
Isophorone	0.9888	0.9985	50.00	50.49	ng	1	30	0.0500	
2-Nitrophenol	0.2106	0.2181	50.00	51.78	ng	4	20	0.0500	
2,4-Dimethylphenol	0.3208	0.3313	50.00	51.64	ng	3	30	0.0500	
bis(2-Chloroethoxy)methane	0.5227	0.5255	50.00	45.42	ng	-9	30	0.0500	
Benzoic acid	0.1788	0.1274	50.00	54.27	ng	9	40	0.0500	
2,4-Dichlorophenol	0.3279	0.3519	50.00	53.67	ng	7	20	0.0500	
1,2,4-Trichlorobenzene	0.3482	0.3779	50.00	54.27	ng	9	30	0.0500	
Naphthalene	1.0240	1.0161	50.00	49.61	ng	-1	30	0.0500	
4-Chloroaniline	0.4446	0.4856	50.00	54.61	ng	9	30	0.0500	
Hexachlorobutadiene	0.2092	0.2377	50.00	56.81	ng	14	20	0.0500	
4-Chloro-3-methylphenol	0.3958	0.4054	50.00	51.22	ng	2	20	0.0500	
2-Methylnaphthalene	0.7719	0.7504	50.00	48.61	ng	-3	30	0.0500	
Hexachlorocyclopentadiene	0.2514	0.3064	50.00	60.94	ng	22	40	0.0500	
2,4,6-Trichlorophenol	0.3928	0.4411	50.00	56.13	ng	12	20	0.0500	
2,4,5-Trichlorophenol	0.4206	0.4663	50.00	55.43	ng	11	30	0.0500	
2-Chloronaphthalene	1.1783	1.2725	50.00	54.00	ng	8	30	0.0500	
2-Nitroaniline	0.4297	0.4401	50.00	51.22	ng	2	30	0.0500	
Dimethylphthalate	1.5210	1.6100	50.00	52.93	ng	6	30	0.0500	
2,6-Dinitrotoluene	0.3974	0.4104	50.00	51.63	ng	3	30	0.0500	
Acenaphthylene	1.8771	1.9096	50.00	50.87	ng	2	30	0.0500	
3-Nitroaniline	0.3491	0.3799	50..00	54.41	ng	9	30	0.0500	
Acenaphthene	1.0427	1.0875	50.00	52.15	ng	4	20	0.0500	
2,4-Dinitrophenol	0.1608	0.1519	50.00	52.56	ng	5	40	0.0500	
4-Nitrophenol	0.1709	0.2058	50.00	57.53	ng	15	40	0.0500	
Dibenzofuran	1.6233	1.5766	50.00	48.56	ng	-3	30	0.0500	
2,4-Dinitrotoluene	0.4778	0.5033	50.00	52.67	ng	5	30	0.0500	
Diethylphthalate	1.4297	1.5467	50.00	54.09	ng	8	30	0.0500	
Fluorene	1.2358	1.2007	50.00	47.66	ng	-5	30	0.0500	
4-Chlorophenyl-phenylether	0.6498	0.7043	50.00	52.16	ng	4	40	0.0500	
4-Nitroaniline	0.2896	0.3391	50.00	58.56	ng	17	30	0.0500	
4,6-Dinitro-2-methylphenol	0.1260	0.1482	50.00	52.24	ng	4	30	0.0500	
N-Nitrosodiphenylamine	0.5152	0.5311	50.00	51.55	ng	3	20	0.0500	
4-Bromophenyl-phenylether	0.2784	0.2987	50.00	53.64	ng	7	30	0.0500	
Hexachlorobenzene	0.3032	0.3279	50.00	54.08	ng	8	30	0.0500	
Pentachlorophenol	0.1618	0.1951	50.00	55.23	ng	10	20	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Phenanthrene	1.1158	1.1015	50.00	49.36	ng	-1	30	0.0500	
Anthracene	1.1180	1.1490	50.00	51.39	ng	3	30	0.0500	
Di-n-butylphthalate	1.6026	1.6307	50.00	47.69	ng	-5	30	0.0500	
Fluoranthene	1.2713	1.3547	50.00	53.28	ng	7	20	0.0500	
Pyrene	1.8828	1.6954	50.00	45.02	ng	-10	30	0.0500	
Butylbenzylphthalate	1.0392	0.9515	50.00	45.78	ng	-8	30	0.0500	
3,3'-Dichlorobenzidine	0.4815	0.5589	50.00	58.03	ng	16	40	0.0500	
Benzo(a)anthracene	1.4351	1.3144	50.00	45.79	ng	-8	30	0.0500	
bis(2-Ethylhexyl)phthalate	1.3203	1.0234	50.00	41.49	ng	-17	30	0.0500	
Chrysene	1.2360	1.2663	50.00	51.23	ng	2	30	0.0500	
Di-n-octylphthalate	2.7161	2.5481	50.00	46.91	ng	-6	20	0.0500	
Benzo(b)fluoranthene	1.5119	1.4362	50.00	47.50	ng	-5	30	0.0500	m
Benzo(k)fluoranthene	1.3869	1.4838	50.00	53.50	ng	7	30	0.0500	
Benzo(a)pyrene	1.2050	1.2381	50.00	51.37	ng	3	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.0117	1.0709	50.00	52.93	ng	6	30	0.0500	
Dibenz(a,h)anthracene	0.8237	0.8899	50.00	54.02	ng	8	30	0.0500	
Benzo(g,h,i)perylene	0.8015	0.8690	50.00	54.21	ng	8	30	0.0500	
2-Fluorophenol	1.3909	1.3852	50.00	49.80	ng	0	30	0.0500	
Phenol-d5	1.8106	1.8407	50.00	50.83	ng	2	30	0.0500	
Nitrobenzene-d5	0.4500	0.4589	50.00	50.99	ng	2	30	0.0500	
2-Fluorobiphenyl	1.2469	1.3594	50.00	54.51	ng	9	30	0.0500	
2,4,6-Tribromophenol	0.2646	0.3203	50.00	60.52	ng	**21**	30	0.0500	!c+
Terphenyl-d14	1.2712	1.2026	50.00	47.30	ng	-5	30	0.0500	

!=warning +=high bias c=CCV m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185586 MSBNA Water
EPA 8270C

Inst : MSBNA05
Seqnum : 546118778002
Cal : 546098496001
Standards: S2582

File : xcn02
Caldate: 09-MAR-2006

IDF : 1.0
Time : 23-MAR-2006 12:02

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Phenol	1.7159	1.4500	50.00	42.25	ng	-15	20	0.0500	
bis(2-Chloroethyl)ether	0.9903	0.7732	50.00	39.04	ng	**-22**	30	0.0500	!c-
2-Chlorophenol	1.4099	1.3141	50.00	46.60	ng	-7	30	0.0500	
1,3-Dichlorobenzene	1.7447	1.6992	50.00	48.70	ng	-3	30	0.0500	
1,4-Dichlorobenzene	1.6884	1.6576	50.00	49.09	ng	-2	20	0.0500	
Benzyl alcohol	0.8534	0.7558	50.00	44.28	ng	-11	30	0.0500	
1,2-Dichlorobenzene	1.5661	1.5033	50.00	47.99	ng	-4	30	0.0500	
2-Methylphenol	1.0446	0.9450	50.00	45.23	ng	-10	30	0.0500	
bis(2-Chloroisopropyl) ether	1.1576	0.6525	50.00	28.18	ng	**-44**	30	0.0500	c- ***
4-Methylphenol	1.5565	1.3923	50.00	44.73	ng	-11	30	0.0500	
N-Nitroso-di-n-propylamine	0.6702	0.5542	50.00	41.34	ng	-17	30	0.0500	
Hexachloroethane	0.7197	0.5986	50.00	41.59	ng	-17	30	0.0500	
Nitrobenzene	0.4062	0.3455	50.00	42.52	ng	-15	30	0.0500	
Isophorone	0.7308	0.6261	50.00	42.84	ng	-14	30	0.0500	
2-Nitrophenol	0.2287	0.2326	50.00	50.86	ng	2	20	0.0500	
2,4-Dimethylphenol	0.3162	0.3442	50.00	54.42	ng	9	30	0.0500	
bis(2-Chloroethoxy)methane	0.4186	0.3343	50.00	39.93	ng	-20	30	0.0500	
Benzoic acid	0.1552	0.0774	50.00	45.09	ng	-10	40	0.0500	
2,4-Dichlorophenol	0.3560	0.3776	50.00	53.04	ng	6	20	0.0500	
1,2,4-Trichlorobenzene	0.3937	0.4244	50.00	53.90	ng	8	30	0.0500	
Naphthalene	1.1015	1.1090	50.00	50.34	ng	1	30	0.0500	
4-Chloroaniline	0.4182	0.3793	50.00	45.35	ng	-9	30	0.0500	
Hexachlorobutadiene	0.2484	0.2588	50.00	52.10	ng	4	20	0.0500	
4-Chloro-3-methylphenol	0.3916	0.3706	50.00	47.32	ng	-5	20	0.0500	
2-Methylnaphthalene	0.8350	0.9445	50.00	56.56	ng	13	30	0.0500	
Hexachlorocyclopentadiene	0.2461	0.1732	50.00	38.07	ng	-24	40	0.0500	
2,4,6-Trichlorophenol	0.4367	0.4361	50.00	49.93	ng	0	20	0.0500	
2,4,5-Trichlorophenol	0.4576	0.4466	50.00	48.79	ng	-2	30	0.0500	
2-Chloronaphthalene	1.2990	1.2850	50.00	49.46	ng	-1	30	0.0500	
2-Nitroaniline	0.3576	0.3197	50.00	44.69	ng	-11	30	0.0500	
Dimethylphthalate	1.7056	1.6612	50.00	48.70	ng	-3	30	0.0500	
2,6-Dinitrotoluene	0.3611	0.3606	50.00	49.92	ng	0	30	0.0500	
Acenaphthylene	1.9540	1.9271	50.00	49.31	ng	-1	30	0.0500	
3-Nitroaniline	0.2997	0.2928	50.00	48.86	ng	-2	30	0.0500	
Acenaphthene	1.1785	1.1848	50.00	50.27	ng	1	20	0.0500	
2,4-Dinitrophenol	0.1310	0.0837	50.00	40.28	ng	-19	40	0.0500	
4-Nitrophenol	0.2215	0.2354	50.00	53.13	ng	6	40	0.0500	
Dibenzofuran	1.8040	1.8651	50.00	51.69	ng	3	30	0.0500	
2,4-Dinitrotoluene	0.4616	0.4597	50.00	49.79	ng	0	30	0.0500	
Diethylphthalate	1.6635	1.7167	50.00	51.60	ng	3	30	0.0500	
Fluorene	1.4290	1.5135	50.00	52.96	ng	6	30	0.0500	
4-Chlorophenyl-phenylether	0.7842	0.8412	50.00	53.63	ng	7	40	0.0500	
4-Nitroaniline	0.2745	0.2689	50.00	48.98	ng	-2	30	0.0500	
4,6-Dinitro-2-methylphenol	0.1205	0.1025	50.00	47.36	ng	-5	30	0.0500	
N-Nitrosodiphenylamine	0.5272	0.5087	50.00	48.24	ng	-4	20	0.0500	
4-Bromophenyl-phenylether	0.2717	0.2900	50.00	53.36	ng	7	30	0.0500	
Hexachlorobenzene	0.2752	0.3093	50.00	56.21	ng	12	30	0.0500	
Pentachlorophenol	0.1516	0.1224	50.00	45.86	ng	-8	20	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Phenanthrene	1.2709	1.2857	50.00	50.58	ng	1	30	0.0500	
Anthracene	1.2191	1.2623	50.00	51.77	ng	4	30	0.0500	
Di-n-butylphthalate	1.8918	1.7408	50.00	46.01	ng	-8	30	0.0500	
Fluoranthene	1.5204	1.5762	50.00	51.84	ng	4	20	0.0500	
Pyrene	1.7127	1.5821	50.00	46.19	ng	-8	30	0.0500	
Butylbenzylphthalate	1.0020	0.7759	50.00	38.72	ng	**-23**	30	0.0500	!c-
3,3'-Dichlorobenzidine	0.5094	0.5045	50.00	50.10	ng	0	40	0.0500	
Benzo(a)anthracene	1.5942	1.5780	50.00	49.49	ng	-1	30	0.0500	
bis(2-Ethylhexyl)phthalate	1.5394	1.2422	50.00	40.35	ng	-19	30	0.0500	
Chrysene	1.2397	1.2111	50.00	48.84	ng	-2	30	0.0500	
Di-n-octylphthalate	2.6873	2.1801	50.00	40.56	ng	-19	20	0.0500	
Benzo(b)fluoranthene	1.6016	1.6180	50.00	50.51	ng	1	30	0.0500	
Benzo(k)fluoranthene	1.4723	1.5395	50.00	52.28	ng	5	30	0.0500	
Benzo(a)pyrene	1.3585	1.4014	50.00	51.58	ng	3	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.4257	1.5504	50.00	54.37	ng	9	30	0.0500	
Dibenz(a,h)anthracene	1.1636	1.2910	50.00	55.47	ng	11	30	0.0500	
Benzo(g,h,i)perylene	1.0930	1.0920	50.00	49.95	ng	0	30	0.0500	
2-Fluorophenol	1.4509	1.2560	50.00	43.28	ng	-13	30	0.0500	
Phenol-d5	1.6700	1.3932	50.00	41.71	ng	-17	30	0.0500	
Nitrobenzene-d5	0.3967	0.3532	50.00	44.52	ng	-11	30	0.0500	
2-Fluorobiphenyl	1.3484	1.4081	50.00	52.21	ng	4	30	0.0500	
2,4,6-Tribromophenol	0.1971	0.2448	50.00	62.12	ng	**24**	30	0.0500	!c+
Terphenyl-d14	1.2719	1.2362	50.00	48.59	ng	-3	30	0.0500	

!=warning +=high bias -=low bias c=CCV

INTERNAL STANDARD SUMMARY FOR 185586 MSBNA Water
Curtis & Tompkins Laboratories

Sequence Date: 22-MAR-2006
Sequence: 546117603 (xcm)
Instrument ID: MSBNA05

CCV Filename: xcm04
Date Analyzed: 22-MAR-2006
Time Analyzed: 17:44

	IS1 (DCBZ14D4)		IS2 (NAPHD8)		IS3 (ACEND10)		IS4 (PHEND10)		IS5 (CHYD12)		IS6 (PERYD12)	
	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT
CCV STD	61362	7.13	202285	8.64	146610	10.82	258992	12.70	225223	16.61	214047	20.54
LOWER LIMIT	30681	6.63	101143	8.14	73305	10.32	129496	12.20	112612	16.11	107024	20.04
UPPER LIMIT	122724	7.63	404570	9.14	293220	11.32	517984	13.20	450446	17.11	428094	21.04

TYPE	SAMPLE	#												
CCV		004	61362	7.13	202285	8.64	146610	10.82	258992	12.70	225223	16.61	214047	20.54
BLANK	QC332372	005	64370	7.13	235468	8.64	149789	10.82	247438	12.70	255686	16.59	246960	20.53
BS	QC332373	006	55219	7.13	186519	8.64	139790	10.82	243003	12.70	220628	16.60	200372	20.54
BSD	QC332374	007	40445	7.13	142156	8.64	110592	10.82	194279	12.70	175862	16.60	158867	20.53
BLANK	QC332517	008	12395*	7.13	94144*	8.64	145561	10.82	255983	12.70	261313	16.59	245136	20.53
LCS	QC332518	009	45267	7.13	181928	8.64	149589	10.82	263106	12.70	240008	16.60	215255	20.54
SAMPLE	185570-010	010	55441	7.13	217431	8.65	174278	10.82	310056	12.70	275157	16.59	98260*	20.52
SAMPLE	185544-003	011	61824	7.13	233754	8.64	161118	10.82	288433	12.70	257388	16.60	230384	20.54
SAMPLE	185645-001	012	62514	7.13	224691	8.64	152810	10.82	261847	12.70	263853	16.59	239610	20.53
SAMPLE	185645-003	013	54454	7.13	223964	8.65	172774	10.82	310412	12.70	285287	16.59	265429	20.54
SAMPLE	185645-004	014	64847	7.13	239175	8.64	164950	10.82	272858	12.70	281286	16.59	249374	20.53
SAMPLE	185645-005	015	55723	7.13	225472	8.64	177765	10.82	322330	12.70	296580	16.60	261511	20.54
MSS	185662-019	016	57147	7.13	196808	8.64	127568	10.82	234547	12.70	206591	16.59	147073	20.52
MS	QC332519	017	52336	7.13	182359	8.64	122851	10.82	227133	12.70	197386	16.59	135544	20.52
MSD	QC332520	018	56112	7.13	193041	8.64	128895	10.82	235852	12.70	202433	16.59	142522	20.52
SAMPLE	185545-004	019	52895	7.13	175229	8.64	114696	10.82	202764	12.70	198285	16.59	146136	20.52
SAMPLE	185545-003	020	45536	7.13	155348	8.64	118596	10.82	204106	12.70	183145	16.59	128823	20.53
SAMPLE	185645-002	021	55406	7.13	199038	8.64	130221	10.82	219681	12.70	228528	16.59	163882	20.52

* = Outside QC Limits

INTERNAL STANDARD SUMMARY FOR 185586 MSBNA Water
Curtis & Tompkins Laboratories

Sequence Date: 23-MAR-2006
Sequence: 536118717 (wcn)
Instrument ID: MSBNA04

CCV Filename: wcn02
Date Analyzed: 23-MAR-2006
Time Analyzed: 10:59

	IS1 (DCBZ14D4)		IS2 (NAPHD8)		IS3 (ACEND10)		IS4 (PHEND10)		IS5 (CHYD12)		IS6 (PERYD12)	
	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT
CCV STD	347933	8.60	1239461	11.09	757868	15.12	1235433	18.73	990020	25.78	809527	29.66
LOWER LIMIT	173967	8.10	619731	10.59	378934	14.62	617717	18.23	495010	25.28	404764	29.16
UPPER LIMIT	695866	9.10	2478922	11.59	1515736	15.62	2470866	19.23	1980040	26.28	1619054	30.16

TYPE	SAMPLE	#												
CCV		002	347933	8.60	1239461	11.09	757868	15.12	1235433	18.73	990020	25.78	809527	29.66
BLANK	QC332517	003	282256	8.59	957027	11.08	601368	15.11	941724	18.72	888313	25.76	871814	29.65
BS	QC332373	004	309875	8.60	1087830	11.09	695370	15.13	1119455	18.73	959046	25.78	853924	29.66
BSD	QC332374	005	311423	8.60	1140018	11.09	704760	15.12	1129787	18.73	989405	25.78	881647	29.66

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INTERNAL STANDARD SUMMARY FOR 185586 MSBNA Water
Curtis & Tompkins Laboratories

Sequence Date: 23-MAR-2006
Sequence: 546118778 (xcn)
Instrument ID: MSBNA05

CCV Filename: xcn02
Date Analyzed: 23-MAR-2006
Time Analyzed: 12:02

	IS1 (DCBZ14D4)		IS2 (NAPHD8)		IS3 (ACEND10)		IS4 (PHEND10)		IS5 (CHYD12)		IS6 (PERYD12)	
	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT
CCV STD	68248	7.13	218027	8.64	158697	10.82	297585	12.70	282171	16.61	263713	20.55
LOWER LIMIT	34124	6.63	109014	8.14	79349	10.32	148793	12.20	141086	16.11	131857	20.05
UPPER LIMIT	136496	7.63	436054	9.14	317394	11.32	595170	13.20	564342	17.11	527426	21.05

TYPE	SAMPLE	#												
CCV		002	68248	7.13	218027	8.64	158697	10.82	297585	12.70	282171	16.61	263713	20.55
SAMPLE	185662-013	003	17038*	7.12	175490	8.64	136679	10.82	248249	12.70	271445	16.59	261763	20.53
SAMPLE	185662-016	004	22189*	7.13	151147	8.64	120444	10.82	226956	12.70	253874	16.59	239592	20.53
SAMPLE	185662-010	005	12716*	7.12	170772	8.64	139281	10.82	261421	12.70	287793	16.59	265019	20.53
SAMPLE	185662-011	006	9317*	7.12	118604	8.64	99325	10.81	189936	12.70	211881	16.59	199136	20.53
SAMPLE	185662-014	007	16131*	7.13	167877	8.64	135098	10.82	254575	12.70	268240	16.59	234610	20.54
MSS	185662-019	008	57458	7.13	198238	8.64	132734	10.82	241996	12.70	245156	16.59	180558	20.53
MS	QC332519	009	53879	7.13	191378	8.64	132151	10.82	239003	12.70	238873	16.59	166337	20.53
MSD	QC332520	010	56109	7.13	189741	8.64	132238	10.82	238599	12.70	237762	16.59	170425	20.53
SAMPLE	185586-009	011	58159	7.13	196530	8.64	137351	10.82	256894	12.70	248794	16.59	178800	20.53
SAMPLE	185662-012	012	7688*	7.12	97308*	8.64	78613*	10.81	152996	12.70	154004	16.59	116640*	20.52
SAMPLE	185662-008	013	57080	7.13	197800	8.64	139420	10.82	256523	12.70	207322	16.59	122744*	20.53
SAMPLE	185570-008	014	53353	7.13	186835	8.64	134215	10.82	239678	12.70	260204	16.59	169671	20.52
SAMPLE	185570-009	015	52168	7.13	181276	8.64	129461	10.82	234595	12.70	266487	16.59	172208	20.52
SAMPLE	185570-010	016	53803	7.13	180121	8.64	125962	10.82	230738	12.70	261395	16.59	182508	20.52
SAMPLE	185570-007	017	48261	7.13	172091	8.64	124693	10.82	229989	12.70	262614	16.59	183082	20.52
SAMPLE	185516-001	018	56984	7.13	194610	8.64	128315	10.82	230089	12.70	261140	16.59	179521	20.52

* = Outside QC Limits

SEQUENCE SUMMARY FOR 185586 MSBNA Water
Curtis & Tompkins Laboratories

Sequence: 546098496 Instrument: MSBNA05 HP GCMS BNA 05 Begun: 09-MAR-2006
Analytical Method: EPA 8270C SOP Version: 8270C_rv8

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	xc901	TUN	DFTPP NP NL			09-MAR-2006 09:36	1.0	1					1 t	
002	xc902	TUN	DFTPP NP NL			09-MAR-2006 09:57	1.0						1	
003	xc903	CCV				09-MAR-2006 10:28	1.0	3		1			2 cc+	
004	xc904	CCV				09-MAR-2006 11:10	1.0	6		1			3 cc+ cc-	
005	xc905	TUN	NP NL			09-MAR-2006 13:33	1.0						1	
006	xc906	TUN	NP NL			09-MAR-2006 14:07	1.0	1					1 t	
007	xc907	TUN	NP NL			09-MAR-2006 14:34	1.0						1	
008	xc908	CCV				09-MAR-2006 14:58	1.0	3		1			2 cc+	1:NNSM=160.137
010	xc910	ICAL	5 ug/mL			09-MAR-2006 16:02	1.0						4	
011	xc911	TUN	NP NL			09-MAR-2006 17:29	1.0						1	
012	xc912	TUN	NP NL			09-MAR-2006 17:59	1.0						1	
013	xc913	TUN	NP NL			09-MAR-2006 18:21	1.0						1	
014	xc914	ICAL	2ug/mL			09-MAR-2006 18:47	1.0						5	
015	xc915	ICAL	5ug/mL			09-MAR-2006 19:27	1.0						4	
016	xc916	ICAL	10ug/mL			09-MAR-2006 20:07	1.0						6	
017	xc917	ICAL	20ug/mL			09-MAR-2006 20:47	1.0						3	
018	xc918	ICAL	50ug/mL			09-MAR-2006 21:26	1.0						7	
019	xc919	ICAL	80ug/mL			09-MAR-2006 22:05	1.0						2	
020	xc920	ICAL	100ug/mL			09-MAR-2006 22:45	1.0						8	
021	xc921	ICAL	120ug/mL			09-MAR-2006 23:26	1.0						9	
022	xc922	ICAL	160ug/mL			10-MAR-2006 00:05	1.0						10	
023	xc923	ICV	60ug/mL			10-MAR-2006 00:44	1.0						11	

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Stds used: 1=S1637 2=S2583 3=S2581 4=S2579 5=S2578 6=S2580 7=S2582 8=S2584 9=S2585 10=S2586 11=S2760
Flags used: +=high bias -=low bias cc=CCV CCC failure t=tune failure

SEQUENCE SUMMARY FOR 185586 MSBNA Water
Curtis & Tompkins Laboratories

Sequence: 546100373 Instrument: MSBNA05 HP GCMS BNA 05 Begun: 10-MAR-2006
Analytical Method: EPA 8270C SOP Version: 8270C_rv8

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	xca01	TUN	NP NL			10-MAR-2006 16:53	1.0	1.0				1	
003	xca03	ICV	80ug/mL			10-MAR-2006 17:43	1.0	1.0	4		1	2	
004	xca04	CCV	80ug/mL			10-MAR-2006 19:02	1.0	1.0			1	3	
005	xca05	BS	QC330216	111003	Water	10-MAR-2006 19:40	1.0	0.001	5	3	1	4	
006	xca06	BSD	QC330217	111003	Water	10-MAR-2006 20:18	1.0	0.001	5	3	1	4	
007	xca07	BS	QC329831	110902	Water	10-MAR-2006 20:57	1.0	0.001	5	3	1	4	
008	xca08	BSD	QC329832	110902	Water	10-MAR-2006 21:36	1.0	0.001	5	3	1	4	
009	xca09	SAMPLE	185170-003	110997	Soil	10-MAR-2006 22:14	1.0	0.0333	1		1	4	1:PHENOL=168.832
010	xca10	MS	QC330202	110997	Soil	10-MAR-2006 22:52	1.0	0.06601	5	1	1	4	
011	xca11	MSD	QC330203	110997	Soil	10-MAR-2006 23:31	1.0	0.06579	5	1	1	4	
012	xca12	SAMPLE	185170-002	110997	Soil	11-MAR-2006 00:10	1.0	0.03313		1	1	4	
013	xca13	SAMPLE	185171-002	110997	Soil	11-MAR-2006 00:48	1.0	0.03378		1	1	4	
014	xca14	SAMPLE	185096-004	110894	Soil	11-MAR-2006 01:26	5.0	0.03336		1	1	4	
015	xca15	SAMPLE	185171-001	110997	Soil	11-MAR-2006 02:05	10.0	0.03306		6	1	4	
016	xca16	SAMPLE	185170-001	110997	Soil	11-MAR-2006 02:43	10.0	0.0336			1	4	
017	xca17	SAMPLE	185267-001	110986	Miscel	11-MAR-2006 03:22	100.0	0.3337			1	4	
018	xca18	SAMPLE	185246-001	110986	Miscel	11-MAR-2006 04:01	100.0	0.672			1	4	

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Stds used: 1=S1637 2=S1959 3=S2582 4=S2027

SEQUENCE SUMMARY FOR 185586 MSBNA Water
Curtis & Tompkins Laboratories

Sequence: 536108715 Instrument: MSBNA04 HP GCMS BNA 04 Begun: 16-MAR-2006
Analytical Method: EPA 8270C SOP Version: 8270C_rv8

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC SPK uL	VL	pH	Stds Used	>LR
001	wcg01	TUN	NP NL			16-MAR-2006 11:55	1.0				1	
002	wcg02	TUN	NP NL			16-MAR-2006 12:43	1.0				1	
003	wcg03	ICAL	2ug/mL			16-MAR-2006 13:15	1.0				2	
004	wcg04	ICAL	5ug/mL			16-MAR-2006 14:00	1.0				3	
005	wcg05	ICAL	10ug/mL			16-MAR-2006 14:45	1.0				4	
006	wcg06	ICAL	20ug/mL			16-MAR-2006 15:30	1.0				5	
007	wcg07	ICAL	50ug/mL			16-MAR-2006 16:15	1.0				6	
008	wcg08	ICAL	80ug/mL			16-MAR-2006 16:59	1.0				7	
009	wcg09	ICAL	100ug/mL			16-MAR-2006 17:43	1.0				8	
010	wcg10	ICAL	120ug/mL			16-MAR-2006 18:28	1.0				9	
011	wcg11	ICAL	160ug/mL			16-MAR-2006 19:14	1.0				10	
012	wcg12	ICV	60ug/mL			16-MAR-2006 19:58	1.0				11	

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Stds used: 1=S1637 2=S2578 3=S2579 4=S2580 5=S2581 6=S2582 7=S2583 8=S2584 9=S2585 10=S2586 11=S2760

SEQUENCE SUMMARY FOR 185586 MSBNA Water
Curtis & Tompkins Laboratories

Sequence: 536110111 Instrument: MSBNA04 HP GCMS BNA 04 Begun: 17-MAR-2006
Analytical Method: EPA 8270C SOP Version: 8270C_rv8

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	wch01	TUN	NP NL			17-MAR-2006 11:11	1.0					1	
002	wch02	CCV				17-MAR-2006 11:35	1.0		1			2	
003	wch03	ICV				17-MAR-2006 12:40	1.0	1	1			3	
004	wch04	ICV				17-MAR-2006 15:13	1.0	2	1			4	1:13BZDI=129.125
005	wch05	ICV				17-MAR-2006 16:17	1.0	1	1			5 6	
006	wch06	ICV				17-MAR-2006 17:26	1.0	1	1			4 6	

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Stds used: 1=S1637 2=S2583 3=S1959 4=S1915 5=S1916 6=S2027

SEQUENCE SUMMARY FOR 185586 MSBNA Water
Curtis & Tompkins Laboratories

Sequence: 546117603 Instrument: MSBNA05 HP GCMS BNA 05 Begun: 22-MAR-2006
Analytical Method: EPA 8270C SOP Version: 8270C_rv8

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	xcm01	TUN	NP NL			22-MAR-2006 15:04	1.0	1.0	1			1 t	
002	xcm02	TUN	NP NL			22-MAR-2006 16:03	1.0	1.0				1	
003	xcm03	TUN	NP NL			22-MAR-2006 17:22	1.0	1.0				1	
004	xcm04	CCV				22-MAR-2006 17:44	1.0	1.0	1		1	2	
005	xcm05	BLANK	QC332372	111514	Water	22-MAR-2006 18:35	1.0	0.001			1	3	
006	xcm06	BS	QC332373	111514	Water	22-MAR-2006 19:15	1.0	0.001	3		1	3	
007	xcm07	BSD	QC332374	111514	Water	22-MAR-2006 19:55	1.0	0.001	3	7	1	3 spk	
008	xcm08	BLANK	QC332517	111554	Soil	22-MAR-2006 20:35	1.0	0.03282		1	1	3	
009	xcm09	LCS	QC332518	111554	Soil	22-MAR-2006 21:17	1.0	0.03282	6		1	3	
010	xcm10	SAMPLE	185570-010	111514	Water	22-MAR-2006 21:57	1.0	0.001176		3	1	3	
011	xcm11	SAMPLE	185544-003	111514	Water	22-MAR-2006 22:38	1.0	0.0009434			1	3	
012	xcm12	SAMPLE	185645-001	111514	Water	22-MAR-2006 23:19	1.0	0.0009434			1	3	
013	xcm13	SAMPLE	185645-003	111514	Water	23-MAR-2006 00:00	1.0	0.0009901	1		1	3	3:MEPH2=487.086
014	xcm14	SAMPLE	185645-004	111514	Water	23-MAR-2006 00:40	1.0	0.0009434			1	3	
015	xcm15	SAMPLE	185645-005	111514	Water	23-MAR-2006 01:21	1.0	0.0009434	1		1	3	3:MEPH2=483.334
016	xcm16	MSS	185662-019	111554	Soil	23-MAR-2006 02:01	10.0	0.03369			1	3	
017	xcm17	MS	QC332519	111554	Soil	23-MAR-2006 02:41	10.0	0.03293	6	16	1	3	
018	xcm18	MSD	QC332520	111554	Soil	23-MAR-2006 03:22	10.0	0.03372	6	13	1	3	
019	xcm19	SAMPLE	185545-004	111554	Soil	23-MAR-2006 04:03	5.0	0.03332			1	3	
020	xcm20	SAMPLE	185545-003	111554	Soil	23-MAR-2006 04:43	5.0	0.03328			1	3	
021	xcm21	SAMPLE	185645-002	111514	Water	23-MAR-2006 05:24	500.0	0.0009524	70		1	3 <<t	
022	xcm22	X	ENDBLANK			23-MAR-2006 05:53	1.0						
023	xcm23	X	ENDBLANK			23-MAR-2006 06:04	1.0						
024	xcm24	X	ENDBLANK			23-MAR-2006 06:14	1.0						
025	xcm25	X	ENDBLANK			23-MAR-2006 06:25	1.0						
026	xcm26	X	ENDBLANK			23-MAR-2006 06:35	1.0						
027	xcm27	X	ENDBLANK			23-MAR-2006 06:46	1.0						
028	xcm28	X	ENDBLANK			23-MAR-2006 06:56	1.0						
029	xcm29	X	ENDBLANK			23-MAR-2006 07:07	1.0						
030	xcm30	X	ENDBLANK			23-MAR-2006 07:17	1.0						

Stds used: 1=S1637 2=S2582 3=S2027
Flags used: <<t=out of clock spk=5% spike rule t=tune failure

SEQUENCE SUMMARY FOR 185586 MSBNA Water
Curtis & Tompkins Laboratories

Sequence: 536118717 Instrument: MSBNA04 HP GCMS BNA 04 Begun: 23-MAR-2006
Analytical Method: EPA 8270C SOP Version: 8270C_rv8

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
001	wcn01	TUN	NP NL			23-MAR-2006 10:37	1.0	1.0		1	
002	wcn02	CCV				23-MAR-2006 10:59	1.0	1.0	1	2	
003	wcn03	BLANK	QC332517	111554	Soil	23-MAR-2006 11:47	1.0	0.03282	1	3	
004	wcn04	BS	QC332373	111514	Water	23-MAR-2006 13:05	1.0	0.001	1	3	
005	wcn05	BSD	QC332374	111514	Water	23-MAR-2006 13:49	1.0	0.001	1	3	
006	wcn06	TUN	NP NL			23-MAR-2006 14:30	1.0	1.0		1	
007	wcn07	CCV				23-MAR-2006 14:54	1.0	1.0	1	2	
008	wcn08	SAMPLE	185662-001	111554	Soil	23-MAR-2006 15:54	1.0	0.0335	1	3	
009	wcn09	SAMPLE	185662-002	111554	Soil	23-MAR-2006 16:39	1.0	0.03349	1	3	
010	wcn10	SAMPLE	185662-004	111554	Soil	23-MAR-2006 17:23	1.0	0.03378	1	3	
011	wcn11	SAMPLE	185662-005	111554	Soil	23-MAR-2006 18:08	1.0	0.03298	1	3	
012	wcn12	SAMPLE	185662-006	111554	Soil	23-MAR-2006 18:54	1.0	0.03336	1	3	
013	wcn13	SAMPLE	185662-007	111554	Soil	23-MAR-2006 19:39	1.0	0.03329	1	3	
014	wcn14	SAMPLE	185662-017	111554	Soil	23-MAR-2006 20:25	1.0	0.03374	1	3	

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Stds used: 1=S1637 2=S2582 3=S2027

SEQUENCE SUMMARY FOR 185586 MSBNA Water
Curtis & Tompkins Laboratories

Sequence: 546118778 Instrument: MSBNA05 HP GCMS BNA 05 Begun: 23-MAR-2006
Analytical Method: EPA 8270C SOP Version: 8270C_rv8

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	xcn01	TUN	NP NL			23-MAR-2006 11:38	1.0	1.0				1	
002	xcn02	CCV				23-MAR-2006 12:02	1.0	1.0	1		1	2	
003	xcn03	SAMPLE	185662-013	111554	Soil	23-MAR-2006 13:02	1.0	0.03329		1	1	3	
004	xcn04	SAMPLE	185662-016	111554	Soil	23-MAR-2006 13:41	1.0	0.03367			1	3	
005	xcn05	SAMPLE	185662-010	111554	Soil	23-MAR-2006 14:20	1.0	0.03292		1	1	3	
006	xcn06	SAMPLE	185662-011	111554	Soil	23-MAR-2006 14:59	1.0	0.03351	1		1	3	1:PHENOL=190.827
007	xcn07	SAMPLE	185662-014	111554	Soil	23-MAR-2006 15:38	1.0	0.03385		1	1	3	
008	xcn08	MSS	185662-019	111554	Soil	23-MAR-2006 16:17	10.0	0.03369		3	1	3	
009	xcn09	MS	QC332519	111554	Soil	23-MAR-2006 16:57	10.0	0.03293	6	17	1	3	
010	xcn10	MSD	QC332520	111554	Soil	23-MAR-2006 17:35	10.0	0.03372	6	14	1	3	
011	xcn11	SAMPLE	185586-009	111514	Water	23-MAR-2006 18:14	1.0	0.0009434			1	3	
012	xcn12	SAMPLE	185662-012	111554	Soil	23-MAR-2006 18:53	1.0	0.03338	2	2	1	3	2:PHENOL=241.341
013	xcn13	SAMPLE	185662-008	111554	Soil	23-MAR-2006 19:33	10.0	0.03369			1	3	
014	xcn14	SAMPLE	185570-008	111514	Water	23-MAR-2006 20:12	10.0	0.001176		1	1	3	
015	xcn15	SAMPLE	185570-009	111514	Water	23-MAR-2006 20:52	10.0	0.001176			1	3	
016	xcn16	SAMPLE	185570-010	111514	Water	23-MAR-2006 21:31	10.0	0.001176		3	1	3	
017	xcn17	SAMPLE	185570-007	111514	Water	23-MAR-2006 22:11	10.0	0.001176		3	1	3	
018	xcn18	SAMPLE	185516-001	111481	TCLP L	23-MAR-2006 22:51	500.0	0.009709			1	3	

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Stds used: 1=S1637 2=S2582 3=S2027

REPORTING SUMMARY FOR 185586 8270-1 Water
Curtis & Tompkins Laboratories

| Lab ID | Inst ID | Analyzed | IDF | | |

Curtis & Tompkins Laboratories **Sample Preparation Summary** **22-MAR-2006 14:26**

Batch Number : 111514
Date Extracted: 21-MAR-2006
Extracted by : Sandra Felipe Luna
Prep Method : 3520C

Analysis : 8270-1
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2914A
Spike #2 ID : S2812C
Spike #3 ID : S2709A
SOP Version : 8270w_3520_rv14

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185544-003		F.D. Thomas	Water	1060	mL	1	0.000943	1	6	1	0	0	8270-1		
185562-002		Blasland, Bouck & Lee	Water	1000	mL	1	0.001000	1	6	1	0	0	8270-1		
185562-003		Blasland, Bouck & Lee	Water	1010	mL	1	0.000990	1	7	1	0	0	8270-1		
185570-001		Camp, Dresser & McKee	Water	1030	mL	1	0.000971	1	6	1	0	0	8270-1		
185570-002		Camp, Dresser & McKee	Water	850	mL	1	0.001176	1	7	1	0	0	8270-1		
185570-003		Camp, Dresser & McKee	Water	1040	mL	1	0.000962	1	7	1	0	0	8270-1		
185570-004		Camp, Dresser & McKee	Water	1050	mL	1	0.000952	1	7	1	0	0	8270-1		
185570-005		Camp, Dresser & McKee	Water	1050	mL	1	0.000952	1	7	1	0	0	8270-1		
185570-006		Camp, Dresser & McKee	Water	1050	mL	1	0.000952	1	7	1	0	0	8270-1		
185570-007		Camp, Dresser & McKee	Water	850	mL	1	0.001176	1	7	1	0	0	8270-1		
185570-008		Camp, Dresser & McKee	Water	850	mL	1	0.001176	1	7	1	0	0	8270-1		
185570-009		Camp, Dresser & McKee	Water	850	mL	1	0.001176	1	7	1	0	0	8270-1		
185570-010		Camp, Dresser & McKee	Water	850	mL	1	0.001176	1	7	1	0	0	8270-1		
185586-009		Treadwell & Rollo	Water	1060	mL	1	0.000943	1	6	1	0	0	8270-1		
185645-001		Arcadis G&M	Water	1060	mL	1	0.000943	1	7	1	0	0	8270-1		
185645-002		Arcadis G&M	Water	1050	mL	1	0.000952	1	7	1	0	0	8270-1		
185645-003		Arcadis G&M	Water	1010	mL	1	0.000990	1	7	1	0	0	8270-1		
185645-004		Arcadis G&M	Water	1060	mL	1	0.000943	1	6	1	0	0	8270-1		
185645-005		Arcadis G&M	Water	1060	mL	1	0.000943	1	7	1	0	0	8270-1		
QC332372	BLANK		Water	1000	mL	1	0.001000	1		1	0	0	8270-1		
QC332373	BS		Water	1000	mL	1	0.001000	1		1	1	1	8270-1		
QC332374	BSD		Water	1000	mL	1	0.001000	1		1	1	1	8270-1		

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Prep Chemist: _____ Reviewed By: _____ Date: 3/23/06

Relinquished By: _____ Received By: _____ Date: 3/23/06

Curtis & Tompkins, Ltd

8270 WATER PREP LOG

BK2265

LIMS Batch No: 111514
LIMS Analysis: 8270-1
Extracted by: SFL
Date Extracted: 21 Mar 06

Extraction Method:
☐ mod.EPA 3510c sep. funnel
☒ mod. EPA 3520c cont. L/L
☐ _____

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Cleanup Method (if needed):
☐ EPA 3640a GPC
☐ EPA 3630c Silica Gel

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185544-003 A	1060	6	1.0		
185562-002 B	1000	↓			
↓ 03 ↓	1010	7			
185570-001 D	1030	6			
02	850	7			
03	1040				
04	1050				
05	↓				
06					
07	850				
08					
09					
↓ 10 ↓	↓				
185645-001 A	1060				
02	1050				
03	1010	↓			
04	1060	6			
↓ 05 ↓	↓	7			
MB QC332372	1000	NA			
BS 73	↓	↓			
BSD ↓ 74	↓	↓			
185586-009 M	1060	6	↓		*
					3/22/06

	Mfg & Lot # / LIMS # / Time	Date/ Initials
1.0 / 1.0 mL of surrogate solution was added to all samples	S2914A	SFL 3/21/06
1.0 / 1.0 mL of matrix spiking solution was added to all spikes	S2812C / S2709A	↓
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	~~S2709A SFL 3/21/06~~ JTBA49034	
☒ Samples were continuously extracted — Extraction Start Time:	1325 / 1340*	↓
with 450 mL of CH_2Cl_2 EM46060 — Extraction End Time:	0725 / 0800*	DLM 3/22/06
pH of all samples adjusted to pH ≥ 11 with 10 N NaOH	N/A	SFL 3/22/06
Extraction Start Time:		
Extraction End Time:		
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	↓	
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM45116532	
Concentrated to volumes as noted above	✓	↓

3/21/06
Extraction Chemist Date

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Contined from Page —
Continued on Page —

3/23/06
Reviewed by Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8270C Water 3520C
As of 04/18/06

Analyte	Units	MSBNA04	MSBNA02	MSBNA05	MSBNA07	MSBNA08
Phenol	ug/L	1.1	2.5	0.90	0.81	0.63
2-Chlorophenol	ug/L	0.44	2.5	0.89	0.85	0.76
1,4-Dichlorobenzene	ug/L	0.49	2.2	0.55	0.31	0.33
N-Nitroso-di-n-propylamine	ug/L	1.4	2.9	0.50	0.42	0.44
1,2,4-Trichlorobenzene	ug/L	0.32	2.2	0.50	0.36	0.30
4-Chloro-3-methylphenol	ug/L	0.75	2.9	1.0	0.98	0.95
Acenaphthene	ug/L	0.33	2.8	0.44	0.32	0.35
4-Nitrophenol	ug/L	1.3	4.1	0.59	2.8	0.54
2,4-Dinitrotoluene	ug/L	0.24	3.3	0.42	0.44	0.24
Pentachlorophenol	ug/L	0.75	3.2	0.54	1.2	1.1
Pyrene	ug/L	0.40	1.9	0.55	0.34	0.64
Resorcinol	ug/L				2.2	1.8
2,3,4,6-Tetrachlorophenol	ug/L				4.0	2.7
N-Nitrosodimethylamine	ug/L	1.5	2.7	0.35	0.50	0.54
Pyridine	ug/L		3.9			
Aniline	ug/L	1.5				0.12
bis(2-Chloroethyl)ether	ug/L	0.65	3.1	0.54	0.47	0.43
1,3-Dichlorobenzene	ug/L	0.33	1.7	0.55	0.29	0.20
Benzyl alcohol	ug/L	0.59	2.9	0.49	0.37	0.41
1,2-Dichlorobenzene	ug/L	0.45	2.2	0.53	0.33	0.28
2-Methylphenol	ug/L	1.1	2.5	1.1	0.79	0.79
bis(2-Chloroisopropyl) ether	ug/L	0.83	3.0	0.43	0.38	0.42
4-Methylphenol	ug/L	0.43	2.4	1.0	0.81	0.64
Hexachloroethane	ug/L	0.42	1.9	0.46	0.34	0.31
Nitrobenzene	ug/L	0.59	2.4	0.48	0.38	0.20
Isophorone	ug/L	0.38	2.8	0.50	0.39	0.52
2-Nitrophenol	ug/L	1.6	2.4	1.1	1.4	1.3
2,4-Dimethylphenol	ug/L	1.2	1.9	0.97	0.79	1.3
Benzoic acid	ug/L	21	7.9	13	13	11
bis(2-Chloroethoxy)methane	ug/L	0.57	2.7	0.56	0.44	0.45
2,4-Dichlorophenol	ug/L	0.72	2.4	0.96	0.78	0.58
Naphthalene	ug/L	0.27	2.7	0.54	0.26	0.25
4-Chloroaniline	ug/L	0.99	3.0	0.59	0.85	0.69
Hexachlorobutadiene	ug/L	0.37	1.8	0.39	0.45	0.36
2-Methylnaphthalene	ug/L	0.29	3.1	0.65	0.39	0.29
Hexachlorocyclopentadiene	ug/L	0.79	1.3	1.0	1.5	0.55
2,4,6-Trichlorophenol	ug/L	0.78	2.8	0.88	0.84	0.81
2,4,5-Trichlorophenol	ug/L	0.97	3.1	0.78	1.2	1.1
2-Chloronaphthalene	ug/L	0.38	3.1	0.45	0.30	0.33
2-Nitroaniline	ug/L	0.88	3.4	0.43	0.47	0.38
Dimethylphthalate	ug/L	0.25	2.9	0.45	0.45	0.52
Acenaphthylene	ug/L	0.45	2.7	0.38	0.29	0.46
2,6-Dinitrotoluene	ug/L	0.78	2.6	0.44	0.67	0.37
3-Nitroaniline	ug/L	0.73	2.5	0.50	0.43	0.70
2,4-Dinitrophenol	ug/L	5.3	2.1	4.0	2.9	6.1

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8270C Water 3520C
As of 04/18/06

Analyte	Units	MSBNA04	MSBNA02	MSBNA05	MSBNA07	MSBNA08
Dibenzofuran	ug/L	0.44	3.7	0.64	0.40	0.39
Diethylphthalate	ug/L	0.36	3.1	0.44	0.47	0.39
Fluorene	ug/L	0.18	3.1	0.48	0.41	0.39
4-Chlorophenyl-phenylether	ug/L	0.30	3.6	0.46	0.43	0.36
4-Nitroaniline	ug/L	0.66	2.6	0.60	0.48	0.38
4,6-Dinitro-2-methylphenol	ug/L	0.71	2.8	0.64	4.5	4.8
N-Nitrosodiphenylamine	ug/L	0.38	2.3	0.50	0.32	0.28
Azobenzene	ug/L	0.79	2.3	0.52	0.41	0.45
4-Bromophenyl-phenylether	ug/L	0.36	2.5	0.42	0.37	0.31
Hexachlorobenzene	ug/L	0.73	2.3	0.45	0.26	0.44
Phenanthrene	ug/L	0.42	2.5	0.55	0.39	0.46
Anthracene	ug/L	0.30	2.5	0.47	0.37	0.48
Di-n-butylphthalate	ug/L	0.45	2.4	0.52	0.44	0.30
Fluoranthene	ug/L	0.24	2.3	0.53	0.37	0.41
Benzidine	ug/L		3.3			
Butylbenzylphthalate	ug/L	0.38	1.6	0.50	0.43	0.30
3,3'-Dichlorobenzidine	ug/L	0.44	1.5	0.54	0.56	0.42
Benzo(a)anthracene	ug/L	0.61	2.2	0.53	0.34	0.42
Chrysene	ug/L	0.28	2.2	0.46	0.35	0.52
bis(2-Ethylhexyl)phthalate	ug/L	0.54	1.2	0.54	0.67	0.91
Di-n-octylphthalate	ug/L	0.18	2.8	0.42	0.37	0.35
Benzo(b)fluoranthene	ug/L	0.16	1.6	0.38	0.41	0.52
Benzo(k)fluoranthene	ug/L	0.41	3.8	0.51	0.44	0.75
Benzo(a)pyrene	ug/L	0.15	2.5	0.43	0.34	0.48
Indeno(1,2,3-cd)pyrene	ug/L	0.42	2.3	0.53	0.44	0.48
Dibenz(a,h)anthracene	ug/L	0.25	2.4	0.55	0.53	0.37
Benzo(g,h,i)perylene	ug/L	0.56	1.9	0.52	0.41	0.41
2-Fluorophenol	ug/L				0.98	0.98
Phenol-d5	ug/L				0.99	1.1
2,4,6-Tribromophenol	ug/L				1.2	1.2
Nitrobenzene-d5	ug/L				0.42	0.42
2-Fluorobiphenyl	ug/L				0.48	0.57
Terphenyl-d14	ug/L				0.39	0.61

PESTICIDES

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	DAEGW07	Batch#:	111568
Lab ID:	185586-009	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Prepared:	03/22/06
Diln Fac:	1.000	Analyzed:	03/23/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.09
4,4'-DDE	ND	0.09
Endrin	ND	0.09
Endosulfan II	ND	0.09
Endosulfan sulfate	ND	0.09
4,4'-DDD	ND	0.09
4,4'-DDT	ND	0.09
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.09
Toxaphene	ND	0.9

Surrogate	%REC	Limits
TCMX	87	65-135
Decachlorobiphenyl	80	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332572	Batch#:	111568
Matrix:	Water	Prepared:	03/22/06
Units:	ug/L	Analyzed:	03/23/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	75	65-135
Decachlorobiphenyl	120	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Matrix:	Water	Batch#:	111568
Units:	ug/L	Prepared:	03/22/06
Diln Fac:	1.000	Analyzed:	03/23/06

Type: BS Lab ID: QC332573

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	0.2000	0.1796	90	65-135
Heptachlor	0.2000	0.1824	91	65-135
Aldrin	0.2000	0.1700	85	65-135
Dieldrin	0.4000	0.3347	84	65-135
Endrin	0.4000	0.3231	81	65-135
4,4'-DDT	0.4000	0.3341	84	65-135

Surrogate	%REC	Limits
TCMX	83	65-135
Decachlorobiphenyl	98	65-135

Type: BSD Lab ID: QC332574

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	0.2000	0.2002	100	65-135	11	35
Heptachlor	0.2000	0.2067	103	65-135	13	35
Aldrin	0.2000	0.1955	98	65-135	14	35
Dieldrin	0.4000	0.3897	97	65-135	15	35
Endrin	0.4000	0.3852	96	65-135	18	35
4,4'-DDT	0.4000	0.3963	99	65-135	17	35

Surrogate	%REC	Limits
TCMX	95	65-135
Decachlorobiphenyl	121	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185586 PEST Water: EPA 8081A

Inst : GC23
Calnum : 806115774001
Units : pg

Name : gc23pest080
Date : 21-MAR-2006 19:44
X Axis : R

Reviewer: MCH
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	080_013	806115774013	pest_1	21-MAR-2006 19:44	S2827
L2	080_014	806115774014	pest_2	21-MAR-2006 20:12	S2039
L3	080_015	806115774015	pest_3	21-MAR-2006 20:41	S2824
L4	080_016	806115774016	pest_4	21-MAR-2006 21:10	S2372
L5	080_017	806115774017	pest_5	21-MAR-2006 21:39	S2663
L6	080_018	806115774018	pest_6	21-MAR-2006 22:08	S2828
L7	080_019	806115774019	pest_7	21-MAR-2006 22:37	S2823

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
alpha-BHC	A	14116	16979	13190	15277	13846	14275	17441	AVRG		6.66E-5		15018	11	0.995	20	
gamma-BHC	A	12559	15533	11765	13983	12630	12500	15374	AVRG		7.42E-5		13478	11	0.995	20	
beta-BHC	A	6658.5	6732.8	5112.0	5630.3	5039.8	4840.0	5548.9	AVRG		1.77E-4		5651.8	14	0.995	20	
delta-BHC	A	16182	16877	12435	14387	12935	12428	15348	AVRG		6.96E-5		14370	13	0.995	20	
Heptachlor	A	11267	14108	10746	12619	11259	11286	13729	AVRG		8.23E-5		12145	11	0.995	20	
Aldrin	A	11641	13944	10826	12380	11073	10998	13313	AVRG		8.32E-5		12025	10	0.995	20	
Heptachlor epoxide	A	10914	12897	10296	11109	9897.6	9937.7	11722	AVRG		9.12E-5		10968	10	0.995	20	
gamma-Chlordane	A	10704	12894	10322	11340	9988.1	10006	12142	AVRG		9.04E-5		11057	10	0.995	20	
alpha-Chlordane	A	10543	12596	9863.5	11037	9740.8	9597.4	11537	AVRG		9.34E-5		10702	10	0.995	20	
4,4'-DDE	A	9870.5	12070	9556.1	10799	9620.4	10062	11640	AVRG		9.51E-5		10517	10	0.995	20	
Endosulfan I	A	9842.5	12041	9361.4	10608	9390.4	9185.2	10820	AVRG		9.82E-5		10178	10	0.995	20	
Dieldrin	A	10231	12258	9852.4	11148	9971.1	10260	11647	AVRG		9.29E-5		10767	9	0.995	20	
Endrin	A	8579.0	10798	8535.9	9525.0	8449.8	8675.3	10023	AVRG		1.08E-4		9226.6	10	0.995	20	
4,4'-DDD	A	8435.0	9838.9	8362.8	8899.2	7978.8	8239.5	9909.7	AVRG		1.14E-4		8809.1	9	0.995	20	
Endosulfan II	A	8956.0	10551	8595.3	9327.9	8296.5	8426.4	9907.7	AVRG		1.09E-4		9151.6	9	0.995	20	
4,4'-DDT	A	7244.5	10339	7597.2	8958.1	7780.2	8280.1	10037	AVRG		1.16E-4		8605.2	14	0.995	20	
Methoxychlor	A	3191.1	4425.7	3374.9	3932.8	3409.8	3430.3	3202.1	AVRG		2.80E-4		3566.7	13	0.995	20	
Endosulfan sulfate	A	8460.3	9822.0	7689.0	8144.7	7225.7	7128.7	8248.6	AVRG		1.23E-4		8102.7	11	0.995	20	
Endrin ketone	A	10081	11670	9423.1	10033	8853.7	8988.9	10333	AVRG		1.01E-4		9911.8	10	0.995	20	
TCMX	A	9214.8	10667	8332.5	9382.1	8555.9	9114.1	10788	AVRG		1.06E-4		9436.4	10	0.995	20	
Decachlorobiphenyl	A	6217.3	7710.9	6446.6	6617.1	5603.2	5992.0	6824.1	AVRG		1.54E-4		6487.3	10	0.995	20	
alpha-BHC	B	14238	15238	13595	15202	15291	15899	16217	AVRG		6.62E-5		15097	6	0.995	20	
gamma-BHC	B	13155	14073	12125	14056	14075	14120	14306	AVRG		7.30E-5		13702	6	0.995	20	
beta-BHC	B	6625.5	6386.4	5272.1	5910.0	5800.4	5574.4	5203.7	AVRG		1.72E-4		5824.6	9	0.995	20	
delta-BHC	B	15797	15450	12211	14814	14637	14484	14422	AVRG		6.88E-5		14545	8	0.995	20	
Heptachlor	B	8757.5	10392	8652.0	10770	10700	10784	11019	AVRG		9.85E-5		10153	10	0.995	20	

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aldrin	B	12016	12751	10862	12600	12466	12427	12421	AVRG		8.18E-5		12220	5	0.995	20	
Heptachlor epoxide	B	11413	11690	10194	11486	11245	11237	10904	AVRG		8.95E-5		11167	4	0.995	20	
gamma-Chlordane	B	11317	12046	10177	11873	11604	11772	11775	AVRG		8.69E-5		11509	5	0.995	20	
alpha-Chlordane	B	11034	12008	9800.2	11774	11429	11281	11198	AVRG		8.91E-5		11218	6	0.995	20	
4,4'-DDE	B	10786	11533	9627.1	12081	11666	12404	11763	AVRG		8.77E-5		11409	8	0.995	20	
Endosulfan I	B	10388	11264	9294.3	10938	10618	10279	10006	AVRG		9.62E-5		10398	6	0.995	20	
Dieldrin	B	10825	11800	9740.8	11986	11798	12025	11212	AVRG		8.82E-5		11341	7	0.995	20	
Endrin	B	8027.8	8924.1	7081.1	8755.4	8554.3	8628.2	8152.8	AVRG		1.20E-4		8303.4	8	0.995	20	
4,4'-DDD	B	9009.0	9217.7	7846.3	9395.6	9131.8	9593.0	9306.9	AVRG		1.10E-4		9071.5	6	0.995	20	
Endosulfan II	B	10001	10551	8685.6	10380	10170	10296	9753.6	AVRG		1.00E-4		9976.5	6	0.995	20	
4,4'-DDT	B	7044.3	8953.8	6959.8	9531.9	9135.7	9652.2	9650.8	AVRG		1.15E-4		8704.1	14	0.995	20	
Methoxychlor	B	2759.2	3388.9	2532.9	3451.1	3318.5	3225.6	2721.3	AVRG		3.27E-4		3056.8	12	0.995	20	
Endosulfan sulfate	B	9228.5	9397.7	7592.8	9006.6	8711.1	8561.3	8149.7	AVRG		1.15E-4		8663.9	7	0.995	20	
Endrin ketone	B	11322	11780	9456.3	11489	11185	11162	10259	AVRG		9.13E-5		10950	7	0.995	20	
TCMX	B	9591.5	9389.9	8688.5	9160.8	9358.1	9975.3	10348	AVRG		1.05E-4		9501.7	6	0.995	20	
Decachlorobiphenyl	B	8735.5	8828.6	7310.9	8746.5	8456.9	8784.7	8774.3	AVRG		1.17E-4		8519.6	6	0.995	20	
Average EPA 8081A	A												(n=22)	11		20	
Average EPA 8081A	B												(n=22)	7		20	

365

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185586 PEST Water
EPA 8081A

Inst : GC23 Name : gc23pest080
Calnum : 806115774001 Cal Date: 21-MAR-2006

ICV 806115774022 (080_022 22-MAR-2006) stds: S2502

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
alpha-BHC	A	25.00	26.28	pg	5	15	
gamma-BHC	A	25.00	26.16	pg	5	15	
beta-BHC	A	25.00	25.09	pg	0	15	
delta-BHC	A	25.00	25.22	pg	1	15	
Heptachlor	A	25.00	26.24	pg	5	15	
Aldrin	A	25.00	25.39	pg	2	15	
Heptachlor epoxide	A	25.00	25.24	pg	1	15	
gamma-Chlordane	A	25.00	24.52	pg	-2	15	
alpha-Chlordane	A	25.00	24.89	pg	0	15	
4,4'-DDE	A	25.00	25.08	pg	0	15	
Endosulfan I	A	25.00	24.94	pg	0	15	
Dieldrin	A	25.00	24.89	pg	0	15	
Endrin	A	25.00	26.20	pg	5	15	
4,4'-DDD	A	25.00	24.93	pg	0	15	
Endosulfan II	A	25.00	25.47	pg	2	15	
4,4'-DDT	A	25.00	25.39	pg	2	15	
Methoxychlor	A	25.00	30.37	pg	**21**	15	v+ ***
Endosulfan sulfate	A	25.00	25.92	pg	4	15	
Endrin ketone	A	25.00	26.40	pg	6	15	
alpha-BHC	B	25.00	23.45	pg	-6	15	
gamma-BHC	B	25.00	22.99	pg	-8	15	
beta-BHC	B	25.00	22.34	pg	-11	15	
delta-BHC	B	25.00	22.61	pg	-10	15	
Heptachlor	B	25.00	23.68	pg	-5	15	
Aldrin	B	25.00	22.71	pg	-9	15	
Heptachlor epoxide	B	25.00	22.58	pg	-10	15	
gamma-Chlordane	B	25.00	21.96	pg	-12	15	
alpha-Chlordane	B	25.00	22.19	pg	-11	15	
4,4'-DDE	B	25.00	22.15	pg	-11	15	
Endosulfan I	B	25.00	22.60	pg	-10	15	
Dieldrin	B	25.00	22.11	pg	-12	15	
Endrin	B	25.00	23.21	pg	-7	15	
4,4'-DDD	B	25.00	22.46	pg	-10	15	
Endosulfan II	B	25.00	22.84	pg	-9	15	
4,4'-DDT	B	25.00	22.29	pg	-11	15	
Methoxychlor	B	25.00	26.66	pg	7	15	
Endosulfan sulfate	B	25.00	23.25	pg	-7	15	
Endrin ketone	B	25.00	23.76	pg	-5	15	
Average EPA 8081A	A	n=20			3	15	
Average EPA 8081A	B	n=20			9	15	

+=high bias v=ICV

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 185586 PEST Water
EPA 8081A

Inst : GC23 Run Name: pem IDF : 1.0
Seqnum : 806118734002 File : 082_002 Time : 23-MAR-2006 11:23

Standards: S2963

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	836575	4	15	
4,4'-DDE	A	3283			
4,4'-DDD	A	28032			
Endrin	A	425553	6	15	
Endrin aldehyde	A	9315			
Endrin ketone	A	18556			
4,4'-DDT	B	756917	3	15	
4,4'-DDE	B	3033			
4,4'-DDD	B	21693			
Endrin	B	335041	10	15	
Endrin aldehyde	B	17949			
Endrin ketone	B	19854			

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 185586 PEST Water
EPA 8081A

Inst : GC23 Run Name: pem IDF : 1.0
Seqnum : 806118734012 File : 082_012 Time : 23-MAR-2006 18:02

Standards: S2963

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	597627	5	15	
4,4'-DDE	A	2199			
4,4'-DDD	A	26107			
Endrin	A	330915	7	15	
Endrin aldehyde	A	8211			
Endrin ketone	A	16036			
4,4'-DDT	B	915422	3	15	
4,4'-DDE	B	3213			
4,4'-DDD	B	29219			
Endrin	B	405106	10	15	
Endrin aldehyde	B	11814			
Endrin ketone	B	30911			

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185586 PEST Water
EPA 8081A

Inst : GC23 Run Name: pest_3 IDF : 1.0
Seqnum : 806118734003 File : 082_003 Time : 23-MAR-2006 11:51
Cal : 806115774001 Caldate : 21-MAR-2006
Standards: S2824

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	15018	15523	10.00	10.34	pg	3	15	
gamma-BHC	A	13478	13790	10.00	10.23	pg	2	15	
beta-BHC	A	5651.8	5897.3	10.00	10.43	pg	4	15	
delta-BHC	A	14370	14002	10.00	9.744	pg	-3	15	
Heptachlor	A	12145	12456	10.00	10.26	pg	3	15	
Aldrin	A	12025	12409	10.00	10.32	pg	3	15	
Heptachlor epoxide	A	10968	11490	10.00	10.48	pg	5	15	
gamma-Chlordane	A	11057	11606	10.00	10.50	pg	5	15	
alpha-Chlordane	A	10702	11037	10.00	10.31	pg	3	15	
4,4'-DDE	A	10517	10736	20.00	20.42	pg	2	15	
Endosulfan I	A	10178	10597	10.00	10.41	pg	4	15	
Dieldrin	A	10767	10985	20.00	20.41	pg	2	15	
Endrin	A	9226.6	9698.1	20.00	21.02	pg	5	15	
4,4'-DDD	A	8809.1	8990.5	20.00	20.41	pg	2	15	
Endosulfan II	A	9151.6	9502.7	20.00	20.77	pg	4	15	
4,4'-DDT	A	8605.2	8841.7	20.00	20.55	pg	3	15	
Methoxychlor	A	3566.7	3832.7	100.0	107.5	pg	7	15	
Endosulfan sulfate	A	8102.7	8571.8	20.00	21.16	pg	6	15	
Endrin ketone	A	9911.8	10350	20.00	20.88	pg	4	15	
TCMX	A	9436.4	10027	20.00	21.25	pg	6	15	
Decachlorobiphenyl	A	6487.3	6013.1	20.00	18.54	pg	-7	15	
alpha-BHC	B	15097	14228	10.00	9.424	pg	-6	15	
gamma-BHC	B	13702	12733	10.00	9.293	pg	-7	15	
beta-BHC	B	5824.6	5555.3	10.00	9.538	pg	-5	15	
delta-BHC	B	14545	12848	10.00	8.833	pg	-12	15	
Heptachlor	B	10153	9294.0	10.00	9.154	pg	-8	15	
Aldrin	B	12220	11398	10.00	9.327	pg	-7	15	
Heptachlor epoxide	B	11167	10681	10.00	9.565	pg	-4	15	
gamma-Chlordane	B	11509	10784	10.00	9.370	pg	-6	15	
alpha-Chlordane	B	11218	10388	10.00	9.260	pg	-7	15	
4,4'-DDE	B	11409	10109	20.00	17.72	pg	-11	15	
Endosulfan I	B	10398	9806.2	10.00	9.431	pg	-6	15	
Dieldrin	B	11341	10221	20.00	18.03	pg	-10	15	
Endrin	B	8303.4	7721.1	20.00	18.60	pg	-7	15	
4,4'-DDD	B	9071.5	8079.8	20.00	17.81	pg	-11	15	
Endosulfan II	B	9976.5	9146.6	20.00	18.34	pg	-8	15	
4,4'-DDT	B	8704.1	7528.5	20.00	17.30	pg	-14	15	
Methoxychlor	B	3056.8	2731.9	100.0	89.37	pg	-11	15	
Endosulfan sulfate	B	8663.9	7880.0	20.00	18.19	pg	-9	15	
Endrin ketone	B	10950	9969.8	20.00	18.21	pg	-9	15	
TCMX	B	9501.7	9387.7	20.00	19.76	pg	-1	15	
Decachlorobiphenyl	B	8519.6	7860.3	20.00	18.45	pg	-8	15	
Average EPA 8081A	A	(n=22)					4	15	
Average EPA 8081A	B	(n=22)					8	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185586 PEST Water
EPA 8081A

Inst : GC23
Seqnum : 806118734013
Cal : 806115774001
Standards: S2372

Run Name: pest_4
File : 082_013
Caldate : 21-MAR-2006

IDF : 1.0
Time : 23-MAR-2006 18:31

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	15018	14917	20.00	19.87	pg	-1	15	
gamma-BHC	A	13478	13449	20.00	19.96	pg	0	15	
beta-BHC	A	5651.8	5302.7	20.00	18.76	pg	-6	15	
delta-BHC	A	14370	13268	20.00	18.47	pg	-8	15	
Heptachlor	A	12145	11878	20.00	19.56	pg	-2	15	
Aldrin	A	12025	11605	20.00	19.30	pg	-3	15	
Heptachlor epoxide	A	10968	10212	20.00	18.62	pg	-7	15	
gamma-Chlordane	A	11057	10188	20.00	18.43	pg	-8	15	
alpha-Chlordane	A	10702	10235	20.00	19.13	pg	-4	15	
4,4'-DDE	A	10517	9555.6	40.00	36.34	pg	-9	15	
Endosulfan I	A	10178	9430.8	20.00	18.53	pg	-7	15	
Dieldrin	A	10767	10007	40.00	37.18	pg	-7	15	
Endrin	A	9226.6	8390.5	40.00	36.38	pg	-9	15	
4,4'-DDD	A	8809.1	7718.1	40.00	35.05	pg	-12	15	
Endosulfan II	A	9151.6	8186.0	40.00	35.78	pg	-11	15	
4,4'-DDT	A	8605.2	7913.3	40.00	36.78	pg	-8	15	
Methoxychlor	A	3566.7	3390.9	200.0	190.1	pg	-5	15	
Endosulfan sulfate	A	8102.7	7163.5	40.00	35.36	pg	-12	15	
Endrin ketone	A	9911.8	8821.4	40.00	35.60	pg	-11	15	
TCMX	A	9436.4	9371.4	40.00	39.72	pg	-1	15	
Decachlorobiphenyl	A	6487.3	5698.3	40.00	35.13	pg	-12	15	
alpha-BHC	B	15097	15975	20.00	21.16	pg	6	15	
gamma-BHC	B	13702	14801	20.00	21.61	pg	8	15	
beta-BHC	B	5824.6	6133.9	20.00	21.06	pg	5	15	
delta-BHC	B	14545	15283	20.00	21.01	pg	5	15	
Heptachlor	B	10153	11566	20.00	22.78	pg	14	15	
Aldrin	B	12220	13161	20.00	21.54	pg	8	15	
Heptachlor epoxide	B	11167	11895	20.00	21.30	pg	7	15	
gamma-Chlordane	B	11509	12329	20.00	21.42	pg	7	15	
alpha-Chlordane	B	11218	12101	20.00	21.58	pg	8	15	
4,4'-DDE	B	11409	12121	40.00	42.50	pg	6	15	
Endosulfan I	B	10398	11289	20.00	21.71	pg	9	15	
Dieldrin	B	11341	12271	40.00	43.28	pg	8	15	
Endrin	B	8303.4	9083.8	40.00	43.76	pg	9	15	
4,4'-DDD	B	9071.5	9488.3	40.00	41.84	pg	5	15	
Endosulfan II	B	9976.5	10588	40.00	42.45	pg	6	15	
4,4'-DDT	B	8704.1	9554.8	40.00	43.91	pg	10	15	
Methoxychlor	B	3056.8	3502.5	200.0	229.2	pg	15	15	
Endosulfan sulfate	B	8663.9	9070.2	40.00	41.88	pg	5	15	
Endrin ketone	B	10950	11571	40.00	42.27	pg	6	15	
TCMX	B	9501.7	10026	40.00	42.21	pg	6	15	
Decachlorobiphenyl	B	8519.6	8710.5	40.00	40.90	pg	2	15	
Average EPA 8081A	A	(n=22)					7	15	
Average EPA 8081A	B	(n=22)					7	15	

SEQUENCE SUMMARY FOR 185586 PEST Water
Curtis & Tompkins Laboratories

Sequence: 806115774 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 21-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	080_001	X	hex			21-MAR-2006 09:34	1.0							
002	080_002	X	pem			21-MAR-2006 10:03	1.0						1	
003	080_003	X	pest_3			21-MAR-2006 10:32	1.0						2	
004	080_004	X	pest_3			21-MAR-2006 11:36	1.0						2	
005	080_005	X	pest_3			21-MAR-2006 12:04	1.0						2	
006	080_006	X	primer			21-MAR-2006 16:22	1.0							
007	080_007	X	primer			21-MAR-2006 16:51	1.0							
008	080_008	X	primer			21-MAR-2006 17:20	1.0							
009	080_009	X	primer			21-MAR-2006 17:48	1.0							
010	080_010	X	hex			21-MAR-2006 18:17	1.0							
011	080_011	PEM	pem			21-MAR-2006 18:46	1.0			1			3	
012	080_012	X	hex			21-MAR-2006 19:15	1.0							
013	080_013	ICAL	pest_1			21-MAR-2006 19:44	1.0						4	
014	080_014	ICAL	pest_2			21-MAR-2006 20:12	1.0						5	
015	080_015	ICAL	pest_3			21-MAR-2006 20:41	1.0						2	371
016	080_016	ICAL	pest_4			21-MAR-2006 21:10	1.0						6	
017	080_017	ICAL	pest_5			21-MAR-2006 21:39	1.0						7	
018	080_018	ICAL	pest_6			21-MAR-2006 22:08	1.0						8	
019	080_019	ICAL	pest_7			21-MAR-2006 22:37	1.0						9	
020	080_020	X	hex			21-MAR-2006 23:05	1.0							
021	080_021	X	icv			21-MAR-2006 23:34	1.0						10	
022	080_022	ICV	icv			22-MAR-2006 00:03	1.0	1		1			10	
023	080_023	X	hex			22-MAR-2006 00:32	1.0							

Stds used: 1=S2664 2=S2824 3=S2963 4=S2827 5=S2039 6=S2372 7=S2663 8=S2828 9=S2823 10=S2502

SEQUENCE SUMMARY FOR 185586 PEST Water
Curtis & Tompkins Laboratories

Sequence: 806118734 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 23-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	082_001	X	hex			23-MAR-2006 10:54	1.0						
002	082_002	PEM	pem			23-MAR-2006 11:23	1.0	1.0			1	1	
003	082_003	CCV	pest_3			23-MAR-2006 11:51	1.0	1.0			1	2	
004	082_004	X	pest_3			23-MAR-2006 12:20	1.0					2	
005	082_005	X	pest_3			23-MAR-2006 12:59	1.0					2	
006	082_006	X	hex			23-MAR-2006 13:41	1.0						
007	082_007	BLANK	QC332572	111568	Water	23-MAR-2006 14:10	1.0	0.01			1		
008	082_008	BS	QC332573	111568	Water	23-MAR-2006 14:39	1.0	0.01		19	1		
009	082_009	BSD	QC332574	111568	Water	23-MAR-2006 15:07	1.0	0.01			1		
010	082_010	SAMPLE	185586-009	111568	Water	23-MAR-2006 16:12	1.0	0.009434			1		
011	082_011	X	hex			23-MAR-2006 17:33	1.0						
012	082_012	PEM	pem			23-MAR-2006 18:02	1.0	1.0			1	1	
013	082_013	CCV	pest_4			23-MAR-2006 18:31	1.0	1.0			1	3	
014	082_014	X	pest_4			23-MAR-2006 18:59	1.0					3	
015	082_015	X	pem			23-MAR-2006 19:28	1.0					1	
016	082_016	X	hex			23-MAR-2006 19:57	1.0						

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Stds used: 1=S2963 2=S2824 3=S2372

REPORTING SUMMARY FOR 185586 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185586-009	alpha-BHC	GC23	B	03/23/06 16:12
185586-009	beta-BHC	GC23	B	03/23/06 16:12
185586-009	gamma-BHC	GC23	B	03/23/06 16:12
185586-009	delta-BHC	GC23	B	03/23/06 16:12
185586-009	Heptachlor	GC23	B	03/23/06 16:12
185586-009	Aldrin	GC23	B	03/23/06 16:12
185586-009	Heptachlor epoxide	GC23	B	03/23/06 16:12
185586-009	Endosulfan I	GC23	B	03/23/06 16:12
185586-009	Dieldrin	GC23	B	03/23/06 16:12
185586-009	4,4'-DDE	GC23	B	03/23/06 16:12
185586-009	Endrin	GC23	B	03/23/06 16:12
185586-009	Endosulfan II	GC23	B	03/23/06 16:12
185586-009	Endosulfan sulfate	GC23	B	03/23/06 16:12
185586-009	4,4'-DDD	GC23	B	03/23/06 16:12
185586-009	4,4'-DDT	GC23	B	03/23/06 16:12
185586-009	alpha-Chlordane	GC23	B	03/23/06 16:12
185586-009	gamma-Chlordane	GC23	B	03/23/06 16:12
185586-009	Methoxychlor	GC23	B	03/23/06 16:12
185586-009	Endrin ketone	GC23	B	03/23/06 16:12
185586-009	Toxaphene	GC23	A	03/23/06 16:12
185586-009	TCMX	GC23	B	03/23/06 16:12
185586-009	Decachlorobiphenyl	GC23	B	03/23/06 16:12
QC332572	alpha-BHC	GC23	B	03/23/06 14:10
QC332572	beta-BHC	GC23	B	03/23/06 14:10
QC332572	gamma-BHC	GC23	B	03/23/06 14:10
QC332572	delta-BHC	GC23	B	03/23/06 14:10
QC332572	Heptachlor	GC23	B	03/23/06 14:10
QC332572	Aldrin	GC23	B	03/23/06 14:10
QC332572	Heptachlor epoxide	GC23	B	03/23/06 14:10
QC332572	Endosulfan I	GC23	B	03/23/06 14:10
QC332572	Dieldrin	GC23	B	03/23/06 14:10
QC332572	4,4'-DDE	GC23	B	03/23/06 14:10
QC332572	Endrin	GC23	B	03/23/06 14:10
QC332572	Endosulfan II	GC23	B	03/23/06 14:10
QC332572	Endosulfan sulfate	GC23	B	03/23/06 14:10
QC332572	4,4'-DDD	GC23	B	03/23/06 14:10
QC332572	4,4'-DDT	GC23	B	03/23/06 14:10
QC332572	alpha-Chlordane	GC23	B	03/23/06 14:10
QC332572	gamma-Chlordane	GC23	B	03/23/06 14:10
QC332572	Methoxychlor	GC23	B	03/23/06 14:10
QC332572	Endrin ketone	GC23	B	03/23/06 14:10
QC332572	Toxaphene	GC23	A	03/23/06 14:10
QC332572	TCMX	GC23	B	03/23/06 14:10
QC332572	Decachlorobiphenyl	GC23	B	03/23/06 14:10
QC332573	gamma-BHC	GC23	B	03/23/06 14:39
QC332573	Heptachlor	GC23	B	03/23/06 14:39
QC332573	Aldrin	GC23	B	03/23/06 14:39
QC332573	Dieldrin	GC23	B	03/23/06 14:39
QC332573	Endrin	GC23	B	03/23/06 14:39
QC332573	4,4'-DDT	GC23	B	03/23/06 14:39
QC332573	TCMX	GC23	B	03/23/06 14:39
QC332573	Decachlorobiphenyl	GC23	B	03/23/06 14:39

REPORTING SUMMARY FOR 185586 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC332574	gamma-BHC	GC23	B	03/23/06 15:07
QC332574	Heptachlor	GC23	B	03/23/06 15:07
QC332574	Aldrin	GC23	B	03/23/06 15:07
QC332574	Dieldrin	GC23	B	03/23/06 15:07
QC332574	Endrin	GC23	B	03/23/06 15:07
QC332574	4,4'-DDT	GC23	B	03/23/06 15:07
QC332574	TCMX	GC23	B	03/23/06 15:07
QC332574	Decachlorobiphenyl	GC23	B	03/23/06 15:07

Curtis & Tompkins Laboratories **Sample Preparation Summary** **23-MAR-2006 12:23**

Batch Number : 111568
Date Extracted: 22-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : 8081
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2719B-
Spike #2 ID : S2744G-
Spike #3 ID :
SOP Version : 8081w_rv14

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185586-009		Treadwell & Rollo	Water	1060	mL	10	0.009434	1	6	.02	0		8081		
QC332572	BLANK		Water	1000	mL	10	0.010000	1		.02	0		8081		
QC332573	BS		Water	1000	mL	10	0.010000	1		.02	.025		8081		
QC332574	BSD		Water	1000	mL	10	0.010000	1		.02	.025		8081		

Prep Chemist: Jessie Mee Reviewed By: [illegible] Date: 3/23/06

Relinquished By: Dan Mc[illegible] Received By: [illegible] Date: 03/23/06

375

Curtis & Tompkins, Ltd

8081 WATER PREP LOG

BK2210

LIMS Batch No: 111568
LIMS Analysis: 8081
Extracted by: JOM
Date Extracted: 22 Mar 06

Extraction Method:
- ☐ EPA 3510c sep. funnel
- ☒ EPA 3520c cont. L/L
- ☐ _____

Cleanup Method (if needed):
- ☐ EPA 3640a GPC
- ☐ EPA 3620b Florisil
- ☐ _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185586-009N	1060	6	10.0		
MB QC332572	1000	NA	↓		
BS ↓ 73	↓	↓	↓		
BSD ↓ 74	↓	↓	↓		

DLM 3/23/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.02 mL of surrogate solution was added to all samples	S2719B	JOM 3/22/06
0.025 mL of matrix spiking solution was added to all spikes	S2744G	↓
☒ Samples continuously extracted with about 450 mL of CH_2Cl_2	EM46060	
Extraction Start Time:	1155	↓
Extraction End Time:	0700	DLM 3/23/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	
Extracts filtered through baked, CH_2Cl_2-rinsed ~~powdered~~ granular Na_2SO_4	EM451185 32	↓
Exchanged 2x with Hexane	CP890	
Concentrated: ☑ to volumes as noted above ☐ to clean-up volume	✓	↓
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Florisil	NA	↓

Jessica Mee 3/22/06
Extraction Chemist Date

Contined from Page —
Continued on Page —

[illegible] 3/23/06
Reviewed by Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8081A Water
As of 04/18/06

Analyte	Units	GC21 A	GC21 B	GC16 A	GC16 B	GC23 A	GC23 B
gamma-BHC	ug/L	0.0065	0.0039	0.0032	0.0025	0.0029	0.0039
Heptachlor	ug/L	0.0083	0.0056	0.0057	0.0061	0.0029	0.0055
Aldrin	ug/L	0.0094	0.0070	0.0066	0.0066	0.0062	0.0077
Dieldrin	ug/L	0.011	0.0051	0.0074	0.0070	0.0041	0.0097
Endrin	ug/L	0.012	0.011	0.0095	0.0083	0.0054	0.011
4,4'-DDT	ug/L	0.012	0.0071	0.011	0.0099	0.0088	0.0087
alpha-BHC	ug/L	0.0063	0.0040	0.0029	0.0027	0.0032	0.0049
beta-BHC	ug/L	0.0061	0.011	0.0033	0.0052	0.0029	0.0055
delta-BHC	ug/L	0.0065	0.0023	0.0040	0.0026	0.0018	0.0041
Heptachlor epoxide	ug/L	0.0066	0.0097	0.0033	0.0032	0.0028	0.0044
gamma-Chlordane	ug/L	0.0064	0.011	0.0041	0.0037	0.0020	0.0042
alpha-Chlordane	ug/L	0.010	0.0052	0.0045	0.0036	0.0023	0.0052
Endosulfan I	ug/L	0.0062	0.0033	0.0043	0.0032	0.0026	0.0048
4,4'-DDE	ug/L	0.011	0.0057	0.010	0.0082	0.0045	0.0097
Endosulfan II	ug/L	0.013	0.0077	0.0088	0.0073	0.0066	0.0097
Endosulfan sulfate	ug/L	0.0096	0.0054	0.015	0.0087	0.0054	0.0093
4,4'-DDD	ug/L	0.011	0.0096	0.0088	0.0090	0.0033	0.010
Endrin aldehyde	ug/L	0.010	0.0092	0.0084	0.0086	0.0052	0.0088
Chlordane (Technical)	ug/L	0.26	0.21	0.19	0.19	0.17	0.21
Methoxychlor	ug/L	0.050	0.018	0.057	0.080	0.043	0.051
Endrin ketone	ug/L	0.0083	0.023	0.027	0.0095	0.0051	0.015
Toxaphene	ug/L	0.47	0.32	0.39	0.34	0.54	0.29

PCBs

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Field ID:	DAEGW07	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Prepared:	03/22/06
Diln Fac:	1.000	Analyzed:	03/23/06
Batch#:	111570		

Type: SAMPLE
Lab ID: 185586-009
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.48
Aroclor-1221	ND	0.95
Aroclor-1232	ND	0.48
Aroclor-1242	ND	0.48
Aroclor-1248	ND	0.48
Aroclor-1254	ND	0.48
Aroclor-1260	ND	0.48

Surrogate	%REC	Limits
TCMX	113	65-135
Decachlorobiphenyl	125	65-135

Type: BLANK
Lab ID: QC332578
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	97	65-135
Decachlorobiphenyl	124	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Matrix:	Water	Batch#:	111570
Units:	ug/L	Prepared:	03/22/06
Diln Fac:	1.000	Analyzed:	03/23/06

Type: BS Cleanup Method: EPA 3665A
Lab ID: QC332579

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	10.00	9.098	91	60-140

Surrogate	%REC	Limits
TCMX	98	65-135
Decachlorobiphenyl	109	65-135

Type: BSD Cleanup Method: EPA 3665A
Lab ID: QC332580

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1221	10.00	9.540	95	60-140	5	20

Surrogate	%REC	Limits
TCMX	105	65-135
Decachlorobiphenyl	123	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185586 PCBS Water: EPA 8082

Inst : GC22
Calnum : 256088718001
Units : pg

Name : ar1660
Date : 02-MAR-2006 21:02
X Axis : R

Reviewer: CW
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	061_009	256088718009	pcb10_2	02-MAR-2006 21:02	S2097
L2	061_010	256088718010	pcb25_5	02-MAR-2006 21:28	S2098
L3	061_011	256088718011	pcb100_20	02-MAR-2006 21:54	S2099
L4	061_012	256088718012	pcb250_50	02-MAR-2006 22:20	S2100
L5	061_013	256088718013	pcb500_100	02-MAR-2006 22:47	S2101
L6	061_014	256088718014	pcb750_150	02-MAR-2006 23:13	S2102

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aroclor-1016 Peak # 1	A	421.30	414.60	369.96	344.52	305.87	306.59	AVRG		0.00277		360.47	14	.99	20	
Aroclor-1016 Peak # 2	A	763.60	777.36	663.77	604.25	527.67	523.68	AVRG		0.00155		643.39	17	.99	20	
Aroclor-1016 Peak # 3	A	1066.2	1011.0	858.73	804.16	717.97	738.96	AVRG		0.00115		866.18	17	.99	20	
Aroclor-1016 Peak # 4	A	766.40	715.68	596.91	560.24	488.42	493.44	AVRG		0.00166		603.52	19	.99	20	
Aroclor-1016 Peak # 5	A	496.10	506.40	424.50	401.42	341.80	347.38	AVRG		0.00238		419.60	17	.99	20	
Aroclor-1260 Peak # 1	A	1411.7	1405.8	1114.5	1102.8	958.73	1027.2	AVRG		8.55E-4		1170.1	17	.99	20	
Aroclor-1260 Peak # 2	A	924.50	908.88	740.00	720.90	614.64	647.33	AVRG		0.00132		759.37	17	.99	20	
Aroclor-1260 Peak # 3	A	854.70	765.40	662.93	680.13	580.88	612.37	AVRG		0.00144		692.73	15	.99	20	
Aroclor-1260 Peak # 4	A	2064.3	2105.4	1677.9	1695.3	1520.3	1629.5	AVRG		5.61E-4		1782.1	14	.99	20	
Aroclor-1260 Peak # 5	A	1053.2	1083.4	878.12	868.16	753.42	803.62	AVRG		0.00110		906.65	15	.99	20	
TCMX	A	19933	19773	16836	16636	15555	15367	AVRG		5.76E-5		17350	12	.99	20	
Decachlorobiphenyl	A	16543	16382	12404	12709	11421	12375	AVRG		7.33E-5		13639	16	.99	20	
Aroclor-1016 Peak # 1	B	301.30	236.84	227.64	205.21	203.82	195.27	AVRG		0.00438		228.35	17	.99	20	
Aroclor-1016 Peak # 2	B	310.60	256.56	234.21	217.18	205.11	197.89	AVRG		0.00422		236.92	18	.99	20	
Aroclor-1016 Peak # 3	B	381.80	304.96	295.73	269.08	259.13	248.12	AVRG		0.00341		293.14	17	.99	20	
Aroclor-1016 Peak # 4	B	461.90	399.64	375.99	339.54	327.88	313.78	AVRG		0.00270		369.79	15	.99	20	
Aroclor-1016 Peak # 5	B	286.70	242.80	244.57	223.86	215.56	202.75	AVRG		0.00424		236.04	13	.99	20	
Aroclor-1260 Peak # 1	B	872.90	688.28	658.08	582.40	593.89	565.53	AVRG		0.00151		660.18	17	.99	20	
Aroclor-1260 Peak # 2	B	926.40	698.92	687.26	636.64	645.03	616.74	AVRG		0.00142		701.83	16	.99	20	
Aroclor-1260 Peak # 3	B	591.70	475.84	467.11	415.59	421.56	398.71	AVRG		0.00217		461.75	15	.99	20	
Aroclor-1260 Peak # 4	B	507.70	411.40	401.38	359.13	364.76	344.58	AVRG		0.00251		398.16	15	.99	20	
Aroclor-1260 Peak # 5	B	649.50	507.92	528.32	475.67	487.42	461.06	AVRG		0.00193		518.31	13	.99	20	
TCMX	B	15229	13075	11352	10325	10190	9735.7	AVRG		8.58E-5		11651	18	.99	20	
Decachlorobiphenyl	B	10285	7146.4	7252.6	6540.6	6895.1	6632.8	AVRG		1.34E-4		7458.7	19	.99	20	

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185586 PCBS Water: EPA 8082

Inst : GC22
Calnum : 256094285001
Units : pg

Name : ar2154
Date : 06-MAR-2006 20:00
X Axis : R

Reviewer: MCH
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	065_007	256094285007	ar2154	06-MAR-2006 20:00	S2479

Analyte	Ch	L1	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aroclor-1221 Peak # 1	A	112.47	AVRG		0.00889		112.47	0	.99	20	
Aroclor-1221 Peak # 2	A	191.40	AVRG		0.00522		191.40	0	.99	20	
Aroclor-1221 Peak # 3	A	118.28	AVRG		0.00845		118.28	0	.99	20	
Aroclor-1221 Peak # 4	A	489.26	AVRG		0.00204		489.26	0	.99	20	
Aroclor-1221 Peak # 5	A	68.104	AVRG		0.01468		68.104	0	.99	20	
Aroclor-1254 Peak # 1	A	558.96	AVRG		0.00179		558.96	0	.99	20	
Aroclor-1254 Peak # 2	A	751.14	AVRG		0.00133		751.14	0	.99	20	
Aroclor-1254 Peak # 3	A	606.46	AVRG		0.00165		606.46	0	.99	20	
Aroclor-1254 Peak # 4	A	1020.5	AVRG		9.80E-4		1020.5	0	.99	20	
Aroclor-1254 Peak # 5	A	844.88	AVRG		0.00118		844.88	0	.99	20	
Aroclor-1221 Peak # 1	B	80.836	AVRG		0.01237		80.836	0	.99	20	
Aroclor-1221 Peak # 2	B	128.79	AVRG		0.00776		128.79	0	.99	20	382
Aroclor-1221 Peak # 3	B	92.708	AVRG		0.01079		92.708	0	.99	20	
Aroclor-1221 Peak # 4	B	309.13	AVRG		0.00323		309.13	0	.99	20	
Aroclor-1221 Peak # 5	B	62.300	AVRG		0.01605		62.300	0	.99	20	
Aroclor-1254 Peak # 1	B	424.80	AVRG		0.00235		424.80	0	.99	20	
Aroclor-1254 Peak # 2	B	498.76	AVRG		0.00200		498.76	0	.99	20	
Aroclor-1254 Peak # 3	B	396.55	AVRG		0.00252		396.55	0	.99	20	
Aroclor-1254 Peak # 4	B	678.46	AVRG		0.00147		678.46	0	.99	20	
Aroclor-1254 Peak # 5	B	595.12	AVRG		0.00168		595.12	0	.99	20	

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185586 PCBS Water
EPA 8082

Inst : GC22 Name : ar1660
Calnum : 256088718001 Cal Date: 02-MAR-2006

ICV 256088718017 (061_017 03-MAR-2006) stds: S2181

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Aroclor-1016	A	250.0	233.1	pg	-7	15	
Aroclor-1260	A	250.0	254.7	pg	2	15	
Aroclor-1016	B	250.0	226.9	pg	-9	15	
Aroclor-1260	B	250.0	245.2	pg	-2	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185586 PCBS Water
EPA 8082

Inst : GC22 Run Name: pcb500_100 IDF : 1.0
Seqnum : 256119063003 File : 082_003 Time : 23-MAR-2006 17:16
Cal : 256088718001 Caldate : 02-MAR-2006
Standards: S2101

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aroclor-1016	A			500.0	443.5	pg	-11	15	
Aroclor-1260	A			500.0	477.0	pg	-5	15	
TCMX	A	17350	16723	100.0	96.39	pg	-4	15	
Decachlorobiphenyl	A	13639	12008	100.0	88.04	pg	-12	15	
Aroclor-1016	B			500.0	445.2	pg	-11	15	
Aroclor-1260	B			500.0	561.9	pg	12	15	
TCMX	B	11651	9948.4	100.0	85.38	pg	-15	15	
Decachlorobiphenyl	B	7458.7	8896.8	100.0	119.3	pg	**19**	15	c+

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185586 PCBS Water
EPA 8082

Inst : GC22 Run Name: ar2154 IDF : 1.0
Seqnum : 256119063004 File : 082_004 Time : 23-MAR-2006 17:54
Cal : 256094285001 Caldate : 06-MAR-2006
Standards: S2665

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aroclor-1221	A	250.0	242.4	pg	-3	15	
Aroclor-1254	A	250.0	246.8	pg	-1	15	
Aroclor-1221	B	250.0	226.9	pg	-9	15	
Aroclor-1254	B	250.0	231.2	pg	-8	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185586 PCBS Water
EPA 8082

Inst : GC22 Run Name: pcb250_50 IDF : 1.0
Seqnum : 256119063020 File : 082_020 Time : 24-MAR-2006 00:54
Cal : 256088718001 Caldate : 02-MAR-2006
Standards: S2100

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aroclor-1016	A			250.0	236.4	pg	-5	15	
Aroclor-1260	A			250.0	244.3	pg	-2	15	
TCMX	A	17350	16962	50.00	48.88	pg	-2	15	
Decachlorobiphenyl	A	13639	12386	50.00	45.41	pg	-9	15	
Aroclor-1016	B			250.0	245.8	pg	-2	15	
Aroclor-1260	B			250.0	293.2	pg	**17**	15	c+ ***
TCMX	B	11651	10749	50.00	46.13	pg	-8	15	
Decachlorobiphenyl	B	7458.7	8842.1	50.00	59.27	pg	**19**	15	c+

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185586 PCBS Water
EPA 8082

Inst : GC22 Run Name: ar2154 IDF : 1.0
Seqnum : 256119063022 File : 082_022 Time : 24-MAR-2006 01:46
Cal : 256094285001 Caldate : 06-MAR-2006
Standards: S2479

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aroclor-1221	A	250.0	237.7	pg	-5	15	
Aroclor-1254	A	250.0	239.5	pg	-4	15	
Aroclor-1221	B	250.0	271.2	pg	8	15	
Aroclor-1254	B	250.0	269.0	pg	8	15	

SEQUENCE SUMMARY FOR 185586 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 256088718 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 02-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6
Analytical Method: EPA 8082 SOP Version: 8082_congeners_rv0

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	061_001	X	primer			02-MAR-2006 14:38	1.0						
002	061_002	X	primer			02-MAR-2006 15:04	1.0						
003	061_003	X	primer			02-MAR-2006 15:31	1.0						
004	061_004	X	primer			02-MAR-2006 15:57	1.0						
005	061_005	X	primer			02-MAR-2006 16:23	1.0						
006	061_006	X	primer			02-MAR-2006 16:49	1.0						
007	061_007	X	hex			02-MAR-2006 20:09	1.0						
008	061_008	X	hex			02-MAR-2006 20:35	1.0						
009	061_009	ICAL	pcb10_2			02-MAR-2006 21:02	1.0					1	
010	061_010	ICAL	pcb25_5			02-MAR-2006 21:28	1.0					2	
011	061_011	ICAL	pcb100_20			02-MAR-2006 21:54	1.0					3	
012	061_012	ICAL	pcb250_50			02-MAR-2006 22:20	1.0					4	
013	061_013	ICAL	pcb500_100			02-MAR-2006 22:47	1.0					5	
014	061_014	ICAL	pcb750_150			02-MAR-2006 23:13	1.0					6	388
015	061_015	ICAL	pcb1000_200			02-MAR-2006 23:39	1.0					7	
016	061_016	X	hex			03-MAR-2006 00:06	1.0						
017	061_017	ICV	ultra_1660			03-MAR-2006 00:32	1.0		1			8	
018	061_018	X	icv			03-MAR-2006 00:58	1.0					8	
019	061_019	X	hex			03-MAR-2006 01:25	1.0						

Stds used: 1=S2097 2=S2098 3=S2099 4=S2100 5=S2101 6=S2102 7=S2103 8=S2181

SEQUENCE SUMMARY FOR 185586 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 256094285 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 06-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	065_001	X	hex			06-MAR-2006 11:25	1.0						
002	065_002	X	ccv			06-MAR-2006 11:51	1.0					1	
003	065_003	X	pcb500_100			06-MAR-2006 12:17	1.0					1	
004	065_004	X	ccv			06-MAR-2006 12:43	1.0					2	
005	065_005	X	ccv			06-MAR-2006 13:10	1.0					2	
006	065_006	CCV	pcb500_100			06-MAR-2006 14:44	1.0	1.0			1	1	
007	065_007	ICAL	ar2154			06-MAR-2006 20:00	1.0	1.0				2	
008	065_008	X	ccv			06-MAR-2006 20:27	1.0					2	
009	065_009	X	hex			06-MAR-2006 20:53	1.0						
010	065_010	BLANK	QC330147	110982	Soil	06-MAR-2006 21:19	1.0	0.6667			1		
011	065_011	LCS	QC330148	110982	Soil	06-MAR-2006 21:45	1.0	0.6667			1		
012	065_012	SAMPLE	185130-001	110982	Soil	06-MAR-2006 22:12	1.0	0.6761		1	1		
013	065_013	SAMPLE	185130-002	110982	Soil	06-MAR-2006 22:38	1.0	0.6636			1		
014	065_014	SAMPLE	185130-003	110982	Soil	06-MAR-2006 23:04	1.0	0.6711			1		
015	065_015	SAMPLE	185131-001	110982	Soil	06-MAR-2006 23:30	1.0	0.6702			1		
016	065_016	SAMPLE	185131-002	110982	Soil	06-MAR-2006 23:56	1.0	0.6645	10		1		12:PCB126=5217.78 389
017	065_017	MSS	185171-001	110982	Soil	07-MAR-2006 00:23	1.0	0.6716		1	1		
018	065_018	MS	QC330149	110982	Soil	07-MAR-2006 00:49	1.0	0.6658		1	1		
019	065_019	MSD	QC330150	110982	Soil	07-MAR-2006 01:15	1.0	0.6662		2	1		
020	065_020	X	hex			07-MAR-2006 01:41	1.0						
021	065_021	CCV	pcb250_50			07-MAR-2006 02:08	1.0	1.0			1	3	
022	065_022	X	ccv			07-MAR-2006 02:34	1.0					3	
023	065_023	CCV	ar2154			07-MAR-2006 03:00	1.0	1.0			1	2	
024	065_024	X	ccv			07-MAR-2006 03:26	1.0					2	
025	065_025	X	hex			07-MAR-2006 03:53	1.0						
026	065_026	SAMPLE	185131-003	110982	Soil	07-MAR-2006 04:19	1.0	0.6752			1		
027	065_027	SAMPLE	185132-001	110982	Soil	07-MAR-2006 04:45	1.0	0.6566	1		1		
028	065_028	SAMPLE	185132-002	110982	Soil	07-MAR-2006 05:11	1.0	0.6653			1		
029	065_029	SAMPLE	185132-003	110982	Soil	07-MAR-2006 05:38	1.0	0.668			1		
030	065_030	SAMPLE	185082-001	110928	Soil	07-MAR-2006 06:04	1.0						
031	065_031	SAMPLE	185082-002	110928	Soil	07-MAR-2006 06:30	1.0						

Stds used: 1=S2101 2=S2479 3=S2100 4=S2099

SEQUENCE SUMMARY FOR 185586 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 256094285 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 06-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	065_032	SAMPLE	185082-003	110928	Soil	07-MAR-2006 06:56	1.0	0.6748			1		
033	065_033	SAMPLE	185082-004	110928	Soil	07-MAR-2006 07:23	1.0	0.657			1		
034	065_034	SAMPLE	185082-005	110928	Soil	07-MAR-2006 07:49	1.0						
035	065_035	SAMPLE	185082-006	110928	Soil	07-MAR-2006 08:15	1.0	0.6575	1		1		
036	065_036	X	hex			07-MAR-2006 08:41	1.0						
037	065_037	CCV	pcb100_20			07-MAR-2006 09:08	1.0	1.0	1		1	4	
038	065_038	X	ccv			07-MAR-2006 09:34	1.0					4	
039	065_039	CCV	ar2154			07-MAR-2006 10:00	1.0	1.0			1	2	
040	065_040	X	ccv			07-MAR-2006 10:26	1.0					2	
041	065_041	X	hex			07-MAR-2006 10:52	1.0						
042	065_042	SAMPLE	185082-007	110928	Soil	07-MAR-2006 11:19	1.0						
043	065_043	SAMPLE	185082-008	110928	Soil	07-MAR-2006 11:45	1.0	0.6734			1		
044	065_044	SAMPLE	185082-009	110928	Soil	07-MAR-2006 12:11	1.0	0.6667			1		
045	065_045	SAMPLE	185082-010	110928	Soil	07-MAR-2006 12:37	1.0						
046	065_046	SAMPLE	185082-011	110928	Soil	07-MAR-2006 13:03	1.0	0.6698	1		1		390
047	065_047	SAMPLE	185082-012	110928	Soil	07-MAR-2006 13:29	1.0						
048	065_048	SAMPLE	185082-013	110928	Soil	07-MAR-2006 13:55	1.0	0.6618			1		
049	065_049	SAMPLE	185082-014	110928	Soil	07-MAR-2006 14:22	1.0	0.668			1		
050	065_050	X	hex			07-MAR-2006 14:48	1.0						
051	065_051	X	pcb500_100			07-MAR-2006 15:14	1.0	1.0	1		1	1	
052	065_052	CCV	pcb500_100			07-MAR-2006 15:40	1.0	1.0			1	1	
053	065_053	CCV	ar2154			07-MAR-2006 16:07	1.0	1.0			1	2	
054	065_054	X	ccv			07-MAR-2006 16:33	1.0					2	
055	065_055	X	hex			07-MAR-2006 16:59	1.0						

Stds used: 1=S2101 2=S2479 3=S2100 4=S2099

SEQUENCE SUMMARY FOR 185586 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 256119063 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 23-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	082_001	X	hex			23-MAR-2006 16:23	1.0						
002	082_002	X	pcb500_100			23-MAR-2006 16:50	1.0					1	
003	082_003	CCV	pcb500_100			23-MAR-2006 17:16	1.0	1.0			1	1	
004	082_004	CCV	ar2154			23-MAR-2006 17:54	1.0	1.0			1	2	
005	082_005	X	ccv			23-MAR-2006 18:20	1.0					2	
006	082_006	X	ccv			23-MAR-2006 18:46	1.0					3	
007	082_007	X	ccv			23-MAR-2006 19:13	1.0					3	
008	082_008	X	hex			23-MAR-2006 19:39	1.0						
009	082_009	BLANK	QC332578	111570	Water	23-MAR-2006 20:05	1.0	0.025		1	1		
010	082_010	BS	QC332579	111570	Water	23-MAR-2006 20:31	1.0	0.025		1	1		
011	082_011	BSD	QC332580	111570	Water	23-MAR-2006 20:58	1.0	0.025		1	1		
012	082_012	SAMPLE	185586-009	111570	Water	23-MAR-2006 21:24	1.0	0.02381		1	1		
013	082_013	SAMPLE	185622-003	111570	Water	23-MAR-2006 21:50	1.0	0.02381		1	1		
014	082_014	SAMPLE	185622-004	111570	Water	23-MAR-2006 22:16	1.0	0.02358		1	1		
015	082_015	SAMPLE	185622-005	111570	Water	23-MAR-2006 22:42	1.0	0.02404		1	1		
016	082_016	SAMPLE	185622-006	111570	Water	23-MAR-2006 23:09	1.0	0.02404		1	1		
017	082_017	SAMPLE	185622-020	111570	Water	23-MAR-2006 23:35	1.0	0.02427		1	1		
018	082_018	SAMPLE	185622-021	111570	Water	24-MAR-2006 00:01	1.0	0.02404			1		
019	082_019	X	hex			24-MAR-2006 00:28	1.0						
020	082_020	CCV	pcb250_50			24-MAR-2006 00:54	1.0	1.0	1		1	4	
021	082_021	X	pcb250_50			24-MAR-2006 01:20	1.0	1.0	1		1	4	
022	082_022	CCV	ar2154			24-MAR-2006 01:46	1.0	1.0			1	5	
023	082_023	X	ccv			24-MAR-2006 02:12	1.0					5	
024	082_024	X	ccv			24-MAR-2006 02:39	1.0					3	
025	082_025	X	ccv			24-MAR-2006 03:05	1.0					3	
026	082_026	X	hex			24-MAR-2006 03:31	1.0						
027	082_027	SAMPLE	185622-022	111570	Water	24-MAR-2006 03:57	1.0	0.02404			1		
028	082_028	SAMPLE	185622-025	111570	Water	24-MAR-2006 04:24	1.0	0.02427			1		
029	082_029	SAMPLE	185622-026	111570	Water	24-MAR-2006 04:50	1.0	0.02427		1	1		
030	082_030	SAMPLE	185622-027	111570	Water	24-MAR-2006 05:16	1.0	0.025			1		
031	082_031	SAMPLE	185690-001	111570	Water	24-MAR-2006 05:42	1.0	0.025	1	1	1		

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Stds used: 1=S2101 2=S2665 3=S2638 4=S2100 5=S2479 6=S2099

SEQUENCE SUMMARY FOR 185586 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 256119063 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 23-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	082_032	X	hex			24-MAR-2006 06:08	1.0						
033	082_033	X	pcb100_20			24-MAR-2006 06:35	1.0	1.0	2		1	6	
034	082_034	CCV	pcb100_20			24-MAR-2006 07:01	1.0	1.0			1	6	
035	082_035	X	ccv			24-MAR-2006 07:27	1.0					5	
036	082_036	X	ccv			24-MAR-2006 07:54	1.0					5	
037	082_037	X	ccv			24-MAR-2006 08:20	1.0					3	
038	082_038	X	ccv			24-MAR-2006 08:46	1.0					3	
039	082_039	X	hex			24-MAR-2006 09:12	1.0						

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Stds used: 1=S2101 2=S2665 3=S2638 4=S2100 5=S2479 6=S2099

REPORTING SUMMARY FOR 185586 PCBS Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185586-009	Aroclor-1016	GC22	A	03/23/06 21:24
185586-009	Aroclor-1221	GC22	A	03/23/06 21:24
185586-009	Aroclor-1232	GC22	A	03/23/06 21:24
185586-009	Aroclor-1242	GC22	A	03/23/06 21:24
185586-009	Aroclor-1248	GC22	A	03/23/06 21:24
185586-009	Aroclor-1254	GC22	A	03/23/06 21:24
185586-009	Aroclor-1260	GC22	A	03/23/06 21:24
185586-009	TCMX	GC22	A	03/23/06 21:24
185586-009	Decachlorobiphenyl	GC22	A	03/23/06 21:24
QC332578	Aroclor-1016	GC22	A	03/23/06 20:05
QC332578	Aroclor-1221	GC22	A	03/23/06 20:05
QC332578	Aroclor-1232	GC22	A	03/23/06 20:05
QC332578	Aroclor-1242	GC22	A	03/23/06 20:05
QC332578	Aroclor-1248	GC22	A	03/23/06 20:05
QC332578	Aroclor-1254	GC22	A	03/23/06 20:05
QC332578	Aroclor-1260	GC22	A	03/23/06 20:05
QC332578	TCMX	GC22	A	03/23/06 20:05
QC332578	Decachlorobiphenyl	GC22	A	03/23/06 20:05
QC332579	Aroclor-1221	GC22	A	03/23/06 20:31
QC332579	TCMX	GC22	A	03/23/06 20:31
QC332579	Decachlorobiphenyl	GC22	A	03/23/06 20:31
QC332580	Aroclor-1221	GC22	A	03/23/06 20:58
QC332580	TCMX	GC22	A	03/23/06 20:58
QC332580	Decachlorobiphenyl	GC22	A	03/23/06 20:58

Curtis & Tompkins Laboratories **Sample Preparation Summary** **23-MAR-2006 15:00**

Batch Number : 111570
Date Extracted: 22-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : PCB
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2719B
Spike #2 ID : S2797A
Spike #3 ID :
SOP Version : PCB_w_rv7

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185586-009		Treadwell & Rollo	Water	1050	mL	25	0.023810	1	6	.05	0		PCB	3665A	
185622-003		Treadwell & Rollo	Water	1050	mL	25	0.023810	1	6	.05	0		PCB	3665A	
185622-004		Treadwell & Rollo	Water	1060	mL	25	0.023585	1	6	.05	0		PCB	3665A	
185622-005		Treadwell & Rollo	Water	1040	mL	25	0.024038	1	6	.05	0		PCB	3665A	
185622-006		Treadwell & Rollo	Water	1040	mL	25	0.024038	1	6	.05	0		PCB	3665A	
185622-020		Treadwell & Rollo	Water	1030	mL	25	0.024272	1	6	.05	0		PCB	3665A	
185622-021		Treadwell & Rollo	Water	1040	mL	25	0.024038	1	6	.05	0		PCB	3665A	
185622-022		Treadwell & Rollo	Water	1040	mL	25	0.024038	1	6	.05	0		PCB	3665A	
185622-025		Treadwell & Rollo	Water	1030	mL	25	0.024272	1	6	.05	0		PCB	3665A	
185622-026		Treadwell & Rollo	Water	1030	mL	25	0.024272	1	6	.05	0		PCB	3665A	
185622-027		Treadwell & Rollo	Water	1000	mL	25	0.025000	1	6	.05	0		PCB	3665A	
185690-001		CH2M Hill Constructors Inc.	Water	1000	mL	25	0.025000	1	6	.05	0		PCB	3665A	
QC332578	BLANK		Water	1000	mL	25	0.025000	1		.05	0		PCB	3665A	
QC332579	BS		Water	1000	mL	25	0.025000	1		.05	.05		PCB	3665A	
QC332580	BSD		Water	1000	mL	25	0.025000	1		.05	.05		PCB	3665A	

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Prep Chemist: SFK for JM Reviewed By: [signature] Date: 3/23/06

Relinquished By: Dan McG Received By: Jennifer Gargan Date: 3/24/06

Curtis & Tompkins, Ltd

PCB WATER PREP LOG

BK 2231
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LIMS Batch No: 111570
LIMS Analysis: PCB
Extracted by: JOM
Date Extracted: 22 Mar 06

Extraction Method:
☐ EPA 3510c Sep. Funnel
☒ EPA 3520c Continuous L/L
☐ Other _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Comments
185586-009 J	1050	6	25.0	
185622-003 I	1050			
04	1060			
05	1040			
06	1040			
20 M	1030			
21 M	1040			
22 N	1040			
25 L	1030			
26 L	1030			
27 I	1000			
185690-001 E				
MB QC332578		NA		
BS 79				
BSD 80				
				DLM 3/23/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.05 mL of surrogate solution was added to all samples	S279B	SPK Pen JOM 03/22/06
0.05 mL of spike solution AR1221 was added to all spikes	S279B	
☒ Samples were continuously extracted with about 450 mL CH_2Cl_2	EM4L060	
Extraction Start Time:	1330	
Extraction End Time:	0730	DLM 3/23/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM45118532	
Concentrated to volumes noted above after 2x exchange w/ Hexane lot#	CP890	
EPA 3665A Clean-up: Vortexed w/ 10mL H_2SO_4 lot #	JTB B24063	
Centrifuged for 1min; 10mL transferred to labelled vial	✓	

Extraction Chemist 3/22/06 Date

Contined from Page 395
Continued on Page ____

Reviewed by 3/23/06 Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8082 Water
As of 04/18/06

Analyte	Units	GC06 A	GC06 B	GC22 A	GC22 B	GC25 A	GC25 B
Aroclor-1016	ug/L	0.054	0.054	0.058	0.029	0.11	0.12
Aroclor-1221	ug/L	0.31	0.29	0.41	0.33	0.37	0.63
Aroclor-1232	ug/L	0.11	0.088	0.19	0.34	0.16	0.087
Aroclor-1242	ug/L	0.15	0.16	0.24	0.22	0.14	0.15
Aroclor-1248	ug/L	0.30	0.34	0.097	0.061	0.038	0.051
Aroclor-1254	ug/L	0.086	0.11	0.11	0.14	0.12	0.13
Aroclor-1260	ug/L	0.079	0.14	0.059	0.037	0.097	0.12

POLYAROMATIC HYDROCARBONS

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	600GW102	Batch#:	111439
Lab ID:	185586-001	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Prepared:	03/19/06
Diln Fac:	1.000	Analyzed:	03/21/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	94	65-135
1-Methylnaphthalene (F)	88	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	600GW103	Batch#:	111439
Lab ID:	185586-002	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Prepared:	03/19/06
Diln Fac:	1.000	Analyzed:	03/21/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	7.4	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	0.02 J	0.47	0.008
Fluoranthene	0.02 J	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	94	65-135
1-Methylnaphthalene (F)	88	65-135

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	600GW104	Batch#:	111439
Lab ID:	185586-003	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Prepared:	03/19/06
Diln Fac:	1.000	Analyzed:	03/21/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	94	65-135
1-Methylnaphthalene (F)	89	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	DAEGW07	Batch#:	111439
Lab ID:	185586-009	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	ug/L	Prepared:	03/19/06
Diln Fac:	1.000	Analyzed:	03/21/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	88	65-135
1-Methylnaphthalene (F)	82	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332068	Batch#:	111439
Matrix:	Water	Prepared:	03/19/06
Units:	ug/L	Analyzed:	03/21/06

Analyte	Result	RL	MDL
Naphthalene	ND	1.0	
Acenaphthylene	ND	2.0	
Acenaphthene	ND	1.0	
Fluorene	ND	1.0	
Phenanthrene	ND	0.50	
Anthracene	ND	0.50	0.008
Fluoranthene	ND	0.40	0.02
Pyrene	ND	0.20	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	87	65-135
1-Methylnaphthalene (F)	84	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Matrix:	Water	Batch#:	111439
Units:	ug/L	Prepared:	03/19/06
Diln Fac:	1.000	Analyzed:	03/21/06

Type: BS Lab ID: QC332069

Analyte	Spiked	Result	%REC	Limits
Naphthalene	10.00	8.808	88	50-135
Fluorene	2.000	1.764	88	65-135
Pyrene	1.000	0.8344	83	65-135
Benzo(a)pyrene	1.000	0.8327	83	65-135

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	83	65-135
1-Methylnaphthalene (F)	79	65-135

Type: BSD Lab ID: QC332070

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Naphthalene	10.00	9.260	93	50-135	5	35
Fluorene	2.000	1.901	95	65-135	8	35
Pyrene	1.000	0.9027	90	65-135	8	35
Benzo(a)pyrene	1.000	0.9004	90	65-135	8	35

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	92	65-135
1-Methylnaphthalene (F)	87	65-135

RPD= Relative Percent Difference

Confirmation Report for 185586 HPLC Water
Curtis & Tompkins Laboratories

Units: ug/L

Lab ID	Client ID	Analyte	Result	Confirmation	RPD	%D
185586-002	600GW103	Acenaphthene	7.360	6.940	6	-6
185586-002	600GW103	Anthracene	0.01805 J	0.02679	39	48
185586-002	600GW103	Fluoranthene	0.02310 J	0.05281	78	129

J=estimated

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185586 HPLC Water: EPA 8310

Inst : HPLC04
Calnum : 295454249001
Units : ug/L

Date : 11-NOV-2005 13:27
X Axis : R

Reviewer: MCH
Inj Vol : 10 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	31500006	295454249006		11-NOV-2005 13:27	S1620
L2	31500007	295454249007		11-NOV-2005 13:58	S1619
L3	31500008	295454249008		11-NOV-2005 14:30	S1618
L4	31500009	295454249009		11-NOV-2005 15:02	S1617
L5	31500010	295454249010		11-NOV-2005 15:33	S1616
L6	31500011	295454249011		11-NOV-2005 16:05	S1615
L7	31500012	295454249012		11-NOV-2005 16:36	S1614

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Naphthalene	1	0.0130	0.0130	0.0130	0.0132	0.0131	0.0129	0.0130	LINR	-24.714	77.1181		0.0130	1.000	0.99	20	
Acenaphthylene	1	0.0092	0.0091	0.0093	0.0095	0.0094	0.0092	0.0091	LINR	-214.44	109.425		0.0093	1.000	0.99	20	
Acenaphthene	1	0.0049	0.0049	0.0051	0.0052	0.0051	0.0050	0.0050	LINR	-85.609	200.350		0.0050	1.000	0.99	20	
Fluorene	1	0.0623	0.0618	0.0631	0.0639	0.0633	0.0627	0.0629	LINR	-2.8635	15.9062		0.0629	1.000	0.99	20	
Phenanthrene	1	0.1801	0.1766	0.1803	0.1826	0.1801	0.1784	0.1795	LINR	-1.3045	5.57871		0.1797	1.000	0.99	20	
Anthracene	1	0.4031	0.4032	0.4080	0.4134	0.4084	0.4043	0.4050	LINR	-3.4533	2.47159		0.4065	1.000	0.99	20	
Fluoranthene	1	0.0405	0.0401	0.0407	0.0416	0.0411	0.0407	0.0412	LINR	4.76117	24.3260		0.0408	1.000	0.99	20	
Pyrene	1	0.0324	0.0319	0.0332	0.0334	0.0330	0.0331	0.0336	LINR	8.56100	29.7835		0.0329	1.000	0.99	20	
Benzo(a)anthracene	1	0.0846	0.0904	0.0906	0.0917	0.0910	0.0903	0.0918	LINR	6.16312	10.9120		0.0901	1.000	0.99	20	
Chrysene	1	0.1299	0.1298	0.1319	0.1351	0.1332	0.1321	0.1335	LINR	2.64524	7.49865		0.1322	1.000	0.99	20	
Benzo(b)fluoranthene	1	0.0989	0.1025	0.1054	0.1076	0.1069	0.1059	0.1068	LINR	5.37165	9.37329		0.1049	1.000	0.99	20	
Benzo(k)fluoranthene	1	0.0806	0.0758	0.0785	0.0804	0.0803	0.0803	0.0814	LINR	9.05452	12.2962		0.0796	1.000	0.99	20	
Benzo(a)pyrene	1	0.0781	0.0812	0.0842	0.0867	0.0863	0.0861	0.0870	LINR	8.12100	11.4914		0.0842	1.000	0.99	20	
Dibenz(a,h)anthracene	1	0.0174	0.0209	0.0203	0.0209	0.0211	0.0213	0.0216	LINR	28.9418	46.3202		0.0205	1.000	0.99	20	
Benzo(g,h,i)perylene	1	0.0332	0.0346	0.0347	0.0354	0.0353	0.0353	0.0357	LINR	17.3259	27.9927		0.0349	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	1	0.0843	0.0838	0.0916	0.0948	0.0947	0.0946	0.0953	LINR	8.70680	10.4860		0.0913	1.000	0.99	20	
1-Methylnaphthalene (UV)	1	0.0084	0.0085	0.0086	0.0086	0.0085	0.0084	0.0084	LINR	-262.66	119.128		0.0085	1.000	0.99	20	
Acenaphthylene	2	0.0273	0.0273	0.0279	0.0282	0.0280	0.0277	0.0279	LINR	7.54152	35.8750		0.0277	1.000	0.99	20	
1-Methylnaphthalene (UV)	2	0.0030	0.0030	0.0031	0.0031	0.0031	0.0030	0.0030	LINR	-125.29	329.273		0.0031	1.000	0.99	20	
Naphthalene	3	0.0118	0.0118	0.0118	0.0119	0.0119	0.0117	0.0116	LINR	-94.622	86.2298		0.0118	1.000	0.99	20	
Acenaphthene	3	0.0242	0.0241	0.0242	0.0246	0.0244	0.0239		LINR	-65.047	41.8154		0.0242	1.000	0.99	20	
Fluorene	3	0.1329	0.1328	0.1337	0.1349	0.1333	0.1303		LINR	-17.920	7.68242		0.1330	1.000	0.99	20	
Phenanthrene	3	0.1403	0.1414	0.1416	0.1432	0.1419	0.1386	0.1387	LINR	-8.7849	7.22392		0.1408	1.000	0.99	20	
Anthracene	3	0.4105	0.4089	0.4142	0.4203	0.4141	0.4106	0.4119	LINR	-2.5156	2.43034		0.4129	1.000	0.99	20	
Fluoranthene	3	0.0408	0.0402	0.0409	0.0415	0.0411	0.0406	0.0409	LINR	-2.6821	24.5038		0.0409	1.000	0.99	20	
Pyrene	3	0.1357	0.1319	0.1342	0.1369	0.1342	0.1312	0.1332	LINR	-2.1762	7.53143		0.1339	1.000	0.99	20	

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295454249001

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Benzo(a)anthracene	3	0.1507	0.1492	0.1525	0.1551	0.1526	0.1506	0.1519	LINR	-1.3548	6.59583		0.1518	1.000	0.99	20	
Chrysene	3	0.1830	0.1826	0.1864	0.1898	0.1872	0.1843	0.1845	LINR	-5.3078	5.42554		0.1854	1.000	0.99	20	
Benzo(b)fluoranthene	3	0.0661	0.0655	0.0671	0.0681	0.0672	0.0664	0.0670	LINR	-0.3738	14.9546		0.0668	1.000	0.99	20	
Benzo(k)fluoranthene	3	0.3904	0.3881	0.3960	0.4014	0.3974	0.3923	0.3904	LINR	-7.1975	2.56238		0.3937	1.000	0.99	20	
Benzo(a)pyrene	3	0.2124	0.2112	0.2162	0.2193	0.2168	0.2137	0.2143	LINR	-3.8765	4.67175		0.2148	1.000	0.99	20	
Dibenz(a,h)anthracene	3	0.0298	0.0299	0.0311	0.0319	0.0317	0.0316	0.0320	LINR	14.7159	31.2756		0.0311	1.000	0.99	20	
Benzo(g,h,i)perylene	3	0.0617	0.0613	0.0626	0.0641	0.0636	0.0633	0.0639	LINR	8.49542	15.6646		0.0629	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	3	0.0928	0.0930	0.0946	0.0968	0.0967	0.0963	0.0973	LINR	6.16011	10.2852		0.0953	1.000	0.99	20	
1-Methylnaphthalene (F)	3	0.0132	0.0131	0.0132	0.0133	0.0132	0.0128		LINR	-457.43	78.4104		0.0131	1.000	0.99	20	

LINR=Linear regression

Instrument amount = a0 + response * a1 + response^2 * a2

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Calibration Table

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NEW ICAL. 14 NOV 2005

HPLC04 METHOD 8310

Calib. Data Modified : 11/14/2005 4:07:02 PM

Calculate : External Standard
Based on : Peak Area

Rel. Reference Window : 1.000 %
Abs. Reference Window : 0.200 min
Rel. Non-ref. Window : 1.000 %
Abs. Non-ref. Window : 0.250 min
Do not use Multiplier & Dilution Factor with ISTDs
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Signal 1: DAD1 A, Sig=254,4 Ref=480,80
Signal 2: DAD1 B, Sig=305,4 Ref=480,80
Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
4.798	1	1	500.00000	6.51225	76.77836			Naphthalene
		2	1000.00000	13.02439	76.77905			
		3	2500.00000	32.45070	77.03995			
		4	5000.00000	65.81794	75.96713			
		5	1.00000e4	130.82538	76.43777			
		6	2.50000e4	323.61371	77.25260			
		7	5.00000e4	648.90906	77.05240			
4.839	3	1	500.00000	5.89779	84.77755			Naphthalene
		2	1000.00000	11.75017	85.10517			
		3	2500.00000	29.52386	84.67727			
		4	5000.00000	59.72798	83.71286			
		5	1.00000e4	118.70710	84.24096			
		6	2.50000e4	292.13416	85.57712			
		7	5.00000e4	580.05115	86.19930			
6.052	1	1	1000.00000	9.19383	108.76859			Acenaphthylene
		2	2000.00000	18.17297	110.05354			
		3	5000.00000	46.41474	107.72440			
		4	1.00000e4	94.72365	105.57026			
		5	2.00000e4	187.69478	106.55597			
		6	5.00000e4	461.84637	108.26111			
		7	1.00000e5	913.74396	109.43985			
6.053	2	1	1000.00000	27.33126	36.58814			Acenaphthylene
		2	2000.00000	54.50918	36.69107			
		3	5000.00000	139.26938	35.90165			

Method G:\HPLC4\METHODS\8310-315.M

RetTime [min]	Lvl Sig		Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		4	1.00000e4	281.69171	35.49980			
		5	2.00000e4	559.80969	35.72643			
		6	5.00000e4	1386.26819	36.06806			
		7	1.00000e5	2790.07104	35.84138			
6.831	1	1	2000.00000	16.88634	118.43892			1-Methylnaphthalene (UV)
		2	4000.00000	33.87627	118.07677			
		3	1.00000e4	85.59682	116.82676			
		4	2.00000e4	172.90190	115.67253			
		5	4.00000e4	341.59979	117.09609			
		6	1.00000e5	839.73962	119.08453			
		7	2.00000e5	1681.10107	118.96965			
6.832	2	1	2000.00000	6.07634	329.14529			1-Methylnaphthalene (UV)
		2	4000.00000	12.02570	332.62101			
		3	1.00000e4	30.92526	323.36029			
		4	2.00000e4	62.05173	322.31170			
		5	4.00000e4	122.53880	326.42721			
		6	1.00000e5	302.71973	330.33856			
		7	2.00000e5	608.23541	328.82005			
6.872	3	1	2000.00000	26.32489	75.97373			1-Methylnaphthalene (F)
		2	4000.00000	52.31355	76.46202			
		3	1.00000e4	131.50134	76.04485			
		4	2.00000e4	266.55655	75.03098			
		5	4.00000e4	526.67639	75.94796			
		6	1.00000e5	1276.22900	78.35584			
7.280	1	1	500.00000	5.56723	89.81128			2-Methylnaphthalene
		2	1000.00000	11.21599	89.15845			
		3	2500.00000	28.88600	86.54713			
		4	5000.00000	58.62328	85.29035			
		5	1.00000e4	116.21339	86.04861			
		6	2.50000e4	286.22339	87.34436			
7.335	3	1	500.00000	7.99274	62.55677			2-Methylnaphthalene
		2	1000.00000	15.91236	62.84423			
		3	2500.00000	40.03383	62.44718			
		4	5000.00000	81.15388	61.61135			
		5	1.00000e4	161.03452	62.09849			
		6	2.50000e4	395.10352	63.27456			
7.672	1	1	500.00000	2.42577	206.12028			Acenaphthene
		2	1000.00000	4.86201	205.67637			
		3	2500.00000	12.71169	196.66929			
		4	5000.00000	25.83322	193.54924			
		5	1.00000e4	51.07816	195.77838			
		6	2.50000e4	125.66128	198.94752			
		7	5.00000e4	249.59686	200.32303			
7.712	3	1	500.00000	12.09695	41.33272			Acenaphthene
		2	1000.00000	24.11610	41.46607			
		3	2500.00000	60.52220	41.30716			
		4	5000.00000	122.93717	40.67118			
		5	1.00000e4	243.99982	40.98364			
		6	2.50000e4	597.90503	41.81266			
8.199	1	1	100.00000	6.23287	16.04397			Fluorene
		2	200.00000	12.36933	16.16903			
		3	500.00000	31.54358	15.85108			
		4	1000.00000	63.90393	15.64849			
		5	2000.00000	126.50168	15.81007			
		6	5000.00000	313.40030	15.95404			
		7	1.00000e4	629.23938	15.89220			
8.239	3	1	100.00000	13.29075	7.52403			Fluorene
		2	200.00000	26.56478	7.52876			
		3	500.00000	66.85545	7.47882			
		4	1000.00000	134.87556	7.41424			
		5	2000.00000	266.58530	7.50229			
		6	5000.00000	651.29639	7.67700			
9.318	1	1	50.00000	9.00343	5.55344			Phenanthrene

Method G:\HPLC4\METHODS\8310-315.M

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	100.00000	17.66359	5.66136			
		3	250.00000	45.08168	5.54549			
		4	500.00000	91.29965	5.47647			
		5	1000.00000	180.14212	5.55117			
		6	2500.00000	446.01529	5.60519			
		7	5000.00000	897.40991	5.57159			
9.358	3	1	50.00000	7.01743	7.12511			Phenanthrene
		2	100.00000	14.14166	7.07130			
		3	250.00000	35.38944	7.06425			
		4	500.00000	71.59289	6.98393			
		5	1000.00000	141.86461	7.04897			
		6	2500.00000	346.48584	7.21530			
		7	5000.00000	693.25409	7.21236			
10.346	1	1	50.00000	20.15521	2.48075			Anthracene
		2	100.00000	40.32065	2.48012			
		3	250.00000	101.99684	2.45106			
		4	500.00000	206.70654	2.41889			
		5	1000.00000	408.35837	2.44883			
		6	2500.00000	1010.66217	2.47363			
		7	5000.00000	2024.80078	2.46938			
10.386	3	1	50.00000	20.52480	2.43608			Anthracene
		2	100.00000	40.89180	2.44548			
		3	250.00000	103.54391	2.41443			
		4	500.00000	210.14381	2.37932			
		5	1000.00000	414.05106	2.41516			
		6	2500.00000	1026.49353	2.43548			
		7	5000.00000	2059.37134	2.42793			
11.504	1	1	100.00000	4.05160	24.68162			Fluoranthene
		2	200.00000	8.01856	24.94213			
		3	500.00000	20.35011	24.56989			
		4	1000.00000	41.57235	24.05445			
		5	2000.00000	82.13621	24.34980			
		6	5000.00000	203.73349	24.54187			
		7	1.00000e4	411.60339	24.29523			
11.543	3	1	100.00000	4.08160	24.50019			Fluoranthene
		2	200.00000	8.04222	24.86875			
		3	500.00000	20.46036	24.43750			
		4	1000.00000	41.54289	24.07151			
		5	2000.00000	82.12543	24.35299			
		6	5000.00000	203.17122	24.60978			
		7	1.00000e4	408.57028	24.47559			
12.274	1	1	50.00000	1.62059	30.85291			Pyrene
		2	100.00000	3.19098	31.33834			
		3	250.00000	8.29422	30.14147			
		4	500.00000	16.68730	29.96290			
		5	1000.00000	32.97289	30.32795			
		6	2500.00000	82.77225	30.20336			
		7	5000.00000	168.06082	29.75113			
12.313	3	1	50.00000	6.78313	7.37123			Pyrene
		2	100.00000	13.19262	7.58000			
		3	250.00000	33.54156	7.45344			
		4	500.00000	68.45862	7.30368			
		5	1000.00000	134.23868	7.44942			
		6	2500.00000	328.05682	7.62063			
		7	5000.00000	665.85370	7.50916			
15.125	1	1	50.00000	4.23180	11.81530			Benzo(a)anthracene
		2	100.00000	9.04188	11.05964			
		3	250.00000	22.65013	11.03746			
		4	500.00000	45.84408	10.90653			
		5	1000.00000	91.03773	10.98446			
		6	2500.00000	225.67519	11.07787			
		7	5000.00000	459.00107	10.89322			
15.164	3	1	50.00000	7.53349	6.63703			Benzo(a)anthracene

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	100.00000	14.92142	6.70177			
		3	250.00000	38.11910	6.55839			
		4	500.00000	77.56648	6.44608			
		5	1000.00000	152.59743	6.55319			
		6	2500.00000	376.53439	6.63950			
		7	5000.00000	759.30841	6.58494			
15.624	1	1	50.00000	6.49550	7.69764			Chrysene
		2	100.00000	12.97757	7.70560			
		3	250.00000	32.97633	7.58119			
		4	500.00000	67.56745	7.40001			
		5	1000.00000	133.20935	7.50698			
		6	2500.00000	330.15082	7.57230			
		7	5000.00000	667.71228	7.48826			
15.664	3	1	50.00000	9.15220	5.46317			Chrysene
		2	100.00000	18.25678	5.47742			
		3	250.00000	46.59403	5.36549			
		4	500.00000	94.90897	5.26821			
		5	1000.00000	187.15659	5.34312			
		6	2500.00000	460.78613	5.42551			
		7	5000.00000	922.53937	5.41982			
17.842	1	1	100.00000	9.89154	10.10965			Benzo(b)fluoranthene
		2	200.00000	20.49215	9.75983			
		3	500.00000	52.71000	9.48587			
		4	1000.00000	107.62183	9.29180			
		5	2000.00000	213.82385	9.35349			
		6	5000.00000	529.55377	9.44191			
		7	1.00000e4	1067.59534	9.36684			
17.883	3	1	100.00000	6.61389	15.11970			Benzo(b)fluoranthene
		2	200.00000	13.10739	15.25857			
		3	500.00000	33.56808	14.89510			
		4	1000.00000	68.05548	14.69389			
		5	2000.00000	134.33257	14.88842			
		6	5000.00000	331.92670	15.06357			
		7	1.00000e4	669.70776	14.93189			
18.796	1	1	50.00000	4.03241	12.39953			Benzo(k)fluoranthene
		2	100.00000	7.57503	13.20127			
		3	250.00000	19.62153	12.74110			
		4	500.00000	40.20050	12.43765			
		5	1000.00000	80.29658	12.45383			
		6	2500.00000	200.76387	12.45244			
		7	5000.00000	406.82126	12.29041			
18.837	3	1	50.00000	19.52037	2.56143			Benzo(k)fluoranthene
		2	100.00000	38.80871	2.57674			
		3	250.00000	99.01035	2.52499			
		4	500.00000	200.72287	2.49100			
		5	1000.00000	397.35812	2.51662			
		6	2500.00000	980.66785	2.54928			
		7	5000.00000	1952.04028	2.56142			
19.734	1	1	50.00000	3.90437	12.80616			Benzo(a)pyrene
		2	100.00000	8.12252	12.31145			
		3	250.00000	21.05889	11.87147			
		4	500.00000	43.33799	11.53722			
		5	1000.00000	86.29072	11.58873			
		6	2500.00000	215.14328	11.62016			
		7	5000.00000	435.20081	11.48895			
19.774	3	1	50.00000	10.62241	4.70703			Benzo(a)pyrene
		2	100.00000	21.12371	4.73402			
		3	250.00000	54.04917	4.62542			
		4	500.00000	109.65622	4.55970			
		5	1000.00000	216.76112	4.61337			
		6	2500.00000	534.25336	4.67943			
		7	5000.00000	1071.43713	4.66663			
21.335	1	1	100.00000	1.74457	57.32080			Dibenz(a,h)anthracene

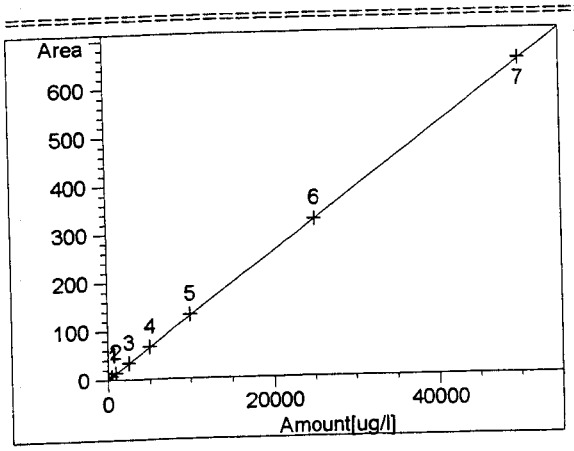
Method G:\HPLC4\METHODS\8310-315.M

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	200.00000	4.18672	47.77004			
		3	500.00000	10.15091	49.25669			
		4	1000.00000	20.86957	47.91665			
		5	2000.00000	42.28377	47.29947			
		6	5000.00000	106.57118	46.91700			
		7	1.00000e4	215.69028	46.36278			
21.376	3	1	100.00000	2.98045	33.55199			Dibenz(a,h)anthracene
		2	200.00000	5.97678	33.46283			
		3	500.00000	15.56407	32.12527			
		4	1000.00000	31.90387	31.34416			
		5	2000.00000	63.43048	31.53058			
		6	5000.00000	158.05646	31.63427			
		7	1.00000e4	319.90201	31.25957			
22.099	1	1	100.00000	3.32142	30.10762			Benzo(g,h,i)perylene
		2	200.00000	6.91262	28.93260			
		3	500.00000	17.35672	28.80728			
		4	1000.00000	35.38666	28.25924			
		5	2000.00000	70.51058	28.36454			
		6	5000.00000	176.29678	28.36127			
		7	1.00000e4	357.48672	27.97307			
22.140	3	1	100.00000	6.17302	16.19953			Benzo(g,h,i)perylene
		2	200.00000	12.25580	16.31880			
		3	500.00000	31.30061	15.97413			
		4	1000.00000	64.07645	15.60636			
		5	2000.00000	127.25459	15.71653			
		6	5000.00000	316.47900	15.79884			
		7	1.00000e4	638.82190	15.65382			
22.620	1	1	50.00000	4.21460	11.86352			Indeno(1,2,3-cd)pyrene
		2	100.00000	8.38093	11.93185			
		3	250.00000	22.88771	10.92289			
		4	500.00000	47.41936	10.54422			
		5	1000.00000	94.73141	10.55616			
		6	2500.00000	236.57013	10.56769			
		7	5000.00000	476.41440	10.49506			
22.661	3	1	50.00000	4.64120	10.77307			Indeno(1,2,3-cd)pyrene
		2	100.00000	9.29544	10.75796			
		3	250.00000	23.65410	10.56899			
		4	500.00000	48.39191	10.33231			
		5	1000.00000	96.65224	10.34637			
		6	2500.00000	240.76752	10.38346			
		7	5000.00000	486.34088	10.28085			

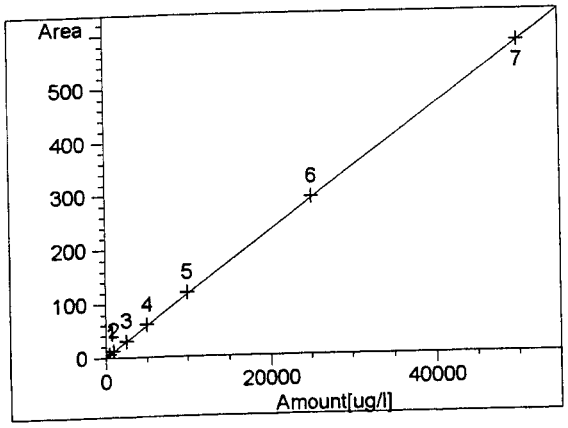
Peak Sum Table

No Entries in table

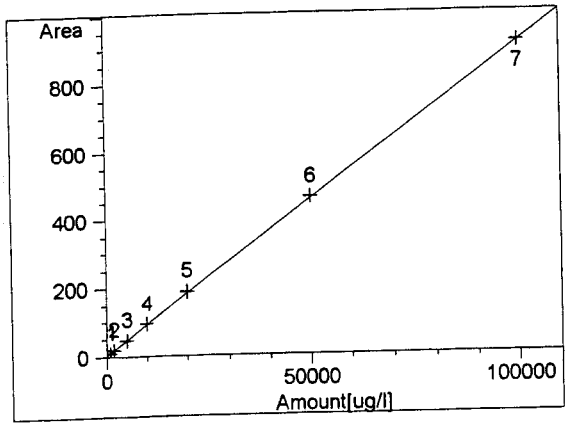
Calibration Curves



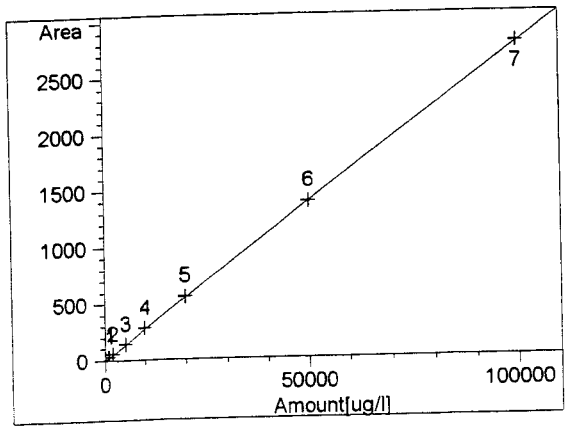
Naphthalene at exp. RT: 4.798
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.66440
Formula: y = mx + b
m: 1.29671e-2
b: 3.20474e-1
x: Amount[ug/l]
y: Area



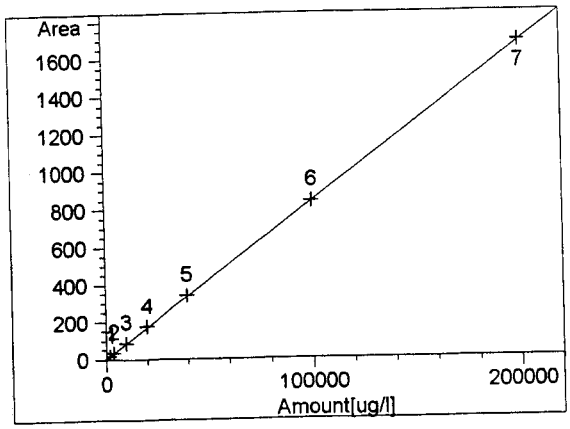
Naphthalene at exp. RT: 4.839
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.21267
Formula: y = mx + b
m: 1.15969e-2
b: 1.09732
x: Amount[ug/l]
y: Area



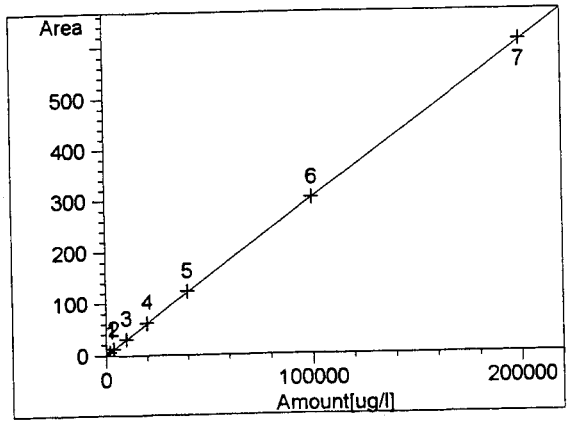
Acenaphthylene at exp. RT: 6.052
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 2.57482
Formula: y = mx + b
m: 9.13868e-3
b: 1.95971
x: Amount[ug/l]
y: Area



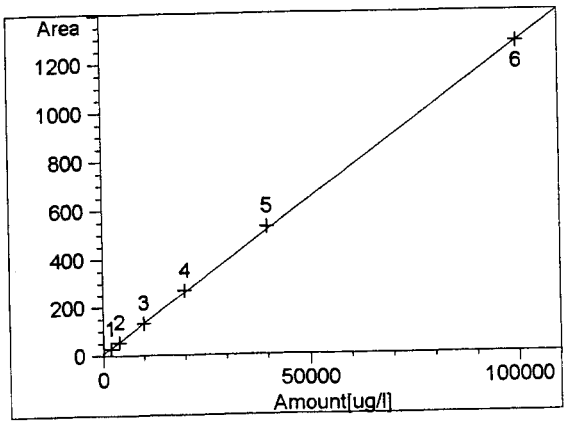
Acenaphthylene at exp. RT: 6.053
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 3.95166
Formula: y = mx + b
m: 2.78746e-2
b: -2.10217e-1
x: Amount[ug/l]
y: Area



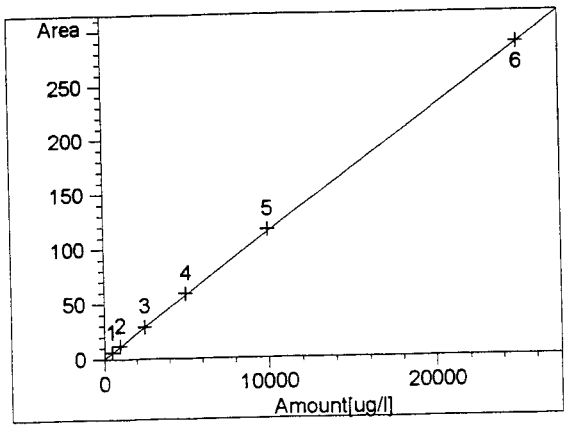
1-Methylnaphthalene (UV) at exp. RT: 6.831
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 2.56891
Formula: y = mx + b
m: 8.39433e-3
b: 2.20489
x: Amount[ug/l]
y: Area



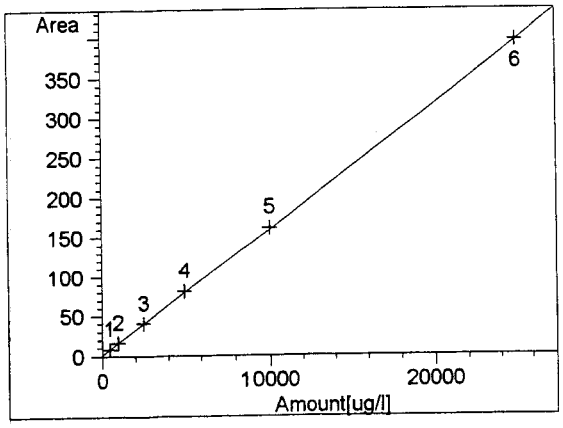
1-Methylnaphthalene (UV) at exp. RT: 6.832
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.87319
Formula: y = mx + b
m: 3.03699e-3
b: 3.80514e-1
x: Amount[ug/l]
y: Area



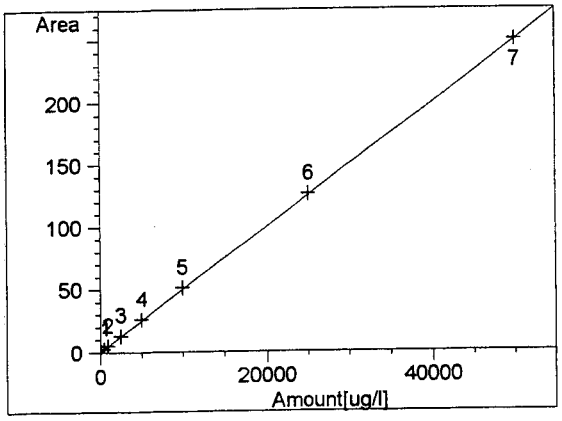
1-Methylnaphthalene (F) at exp. RT: 6.872
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99990
Residual Std. Dev.: 7.42050
Formula: y = mx + b
m: 1.27534e-2
b: 5.83375
x: Amount[ug/l]
y: Area



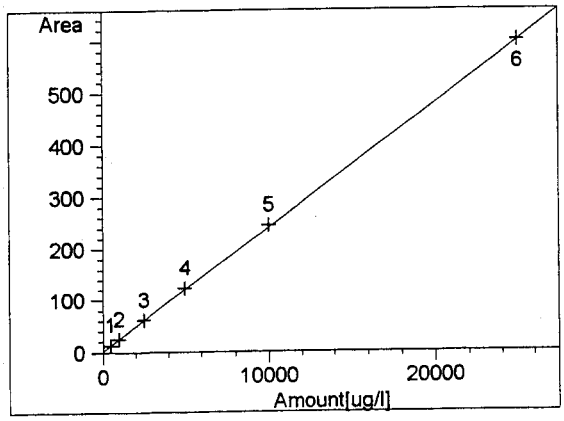
2-Methylnaphthalene at exp. RT: 7.280
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 0.93927
Formula: y = mx + b
m: 1.14550e-2
b: 4.51222e-1
x: Amount[ug/l]
y: Area



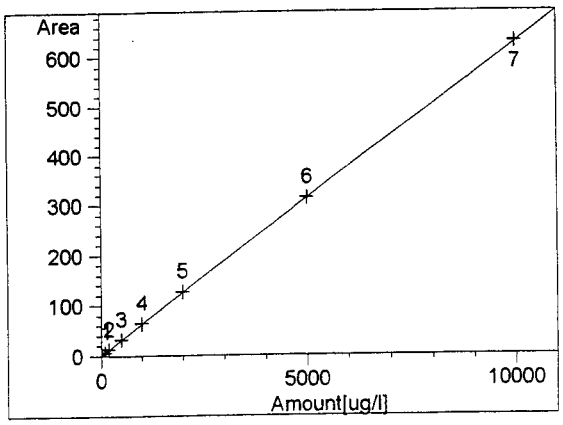
2-Methylnaphthalene at exp. RT: 7.335
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 1.42306
Formula: y = mx + b
m: 1.58022e-2
b: 9.88789e-1
x: Amount[ug/l]
y: Area



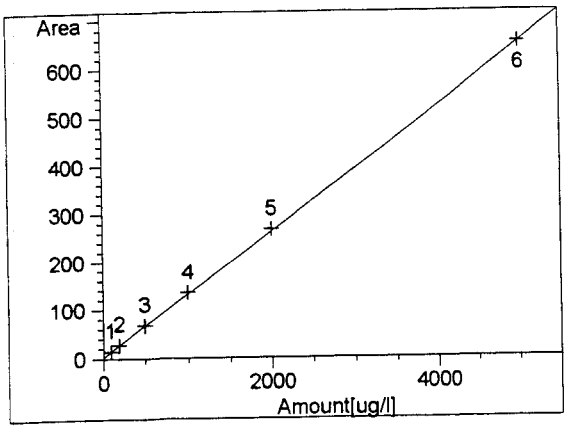
Acenaphthene at exp. RT: 7.672
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.58330
Formula: y = mx + b
m: 4.99125e-3
b: 4.27298e-1
x: Amount[ug/l]
y: Area



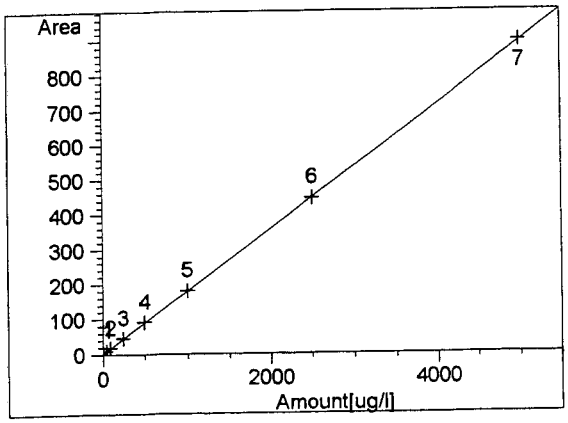
Acenaphthene at exp. RT: 7.712
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 2.28893
Formula: y = mx + b
m: 2.39146e-2
b: 1.55557
x: Amount[ug/l]
y: Area



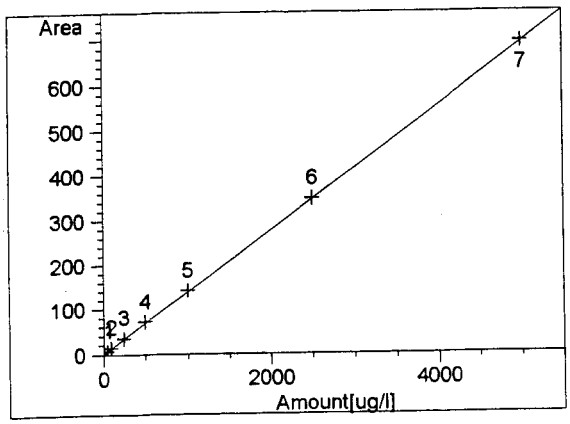
Fluorene at exp. RT: 8.199
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.73220
Formula: y = mx + b
m: 6.28687e-2
b: 1.80023e-1
x: Amount[ug/l]
y: Area



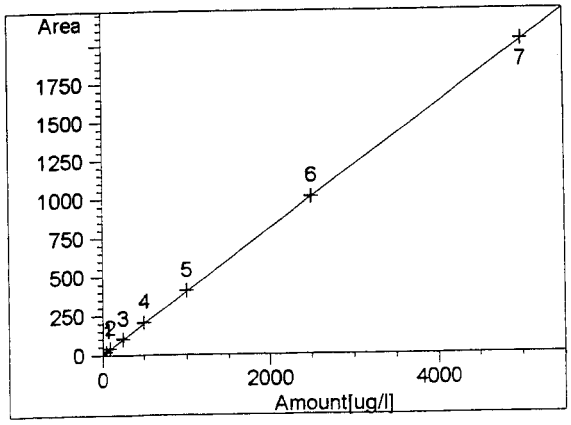
Fluorene at exp. RT: 8.239
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99995
Residual Std. Dev.: 2.84162
Formula: y = mx + b
m: 1.30167e-1
b: 2.33256
x: Amount[ug/l]
y: Area



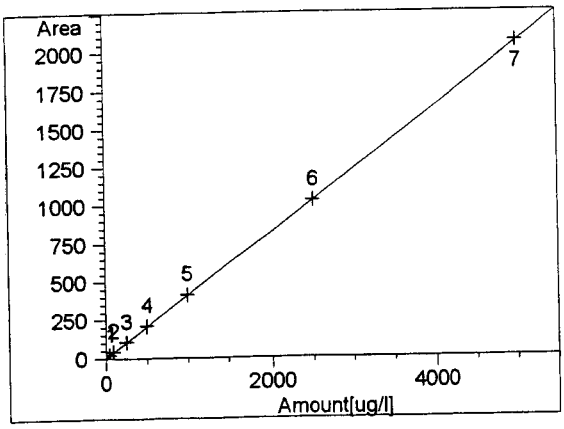
Phenanthrene at exp. RT: 9.318
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 1.35222
Formula: y = mx + b
m: 1.79253e-1
b: 2.33836e-1
x: Amount[ug/l]
y: Area



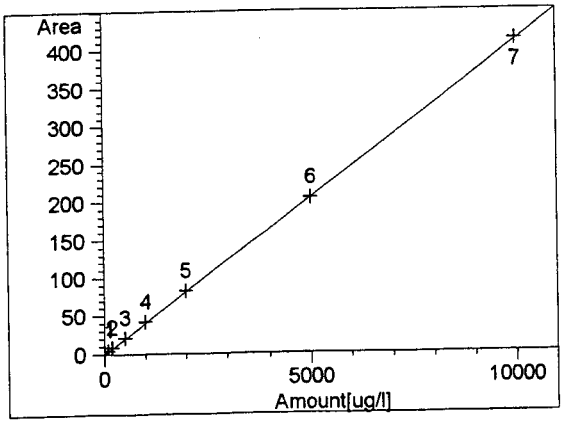
Phenanthrene at exp. RT: 9.358
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.35775
Formula: y = mx + b
m: 1.38429e-1
b: 1.21609
x: Amount[ug/l]
y: Area



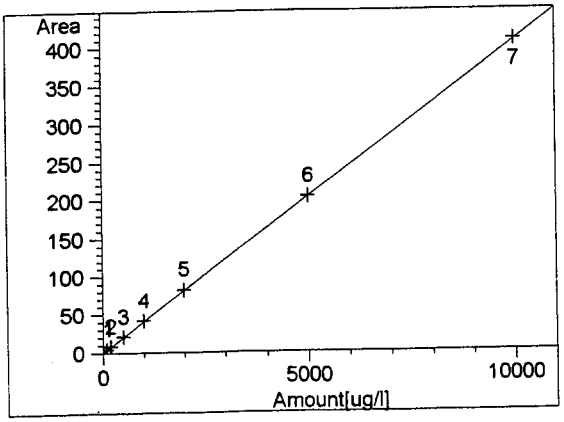
Anthracene at exp. RT: 10.346
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 2.21901
Formula: y = mx + b
m: 4.04598e-1
b: 1.39720
x: Amount[ug/l]
y: Area



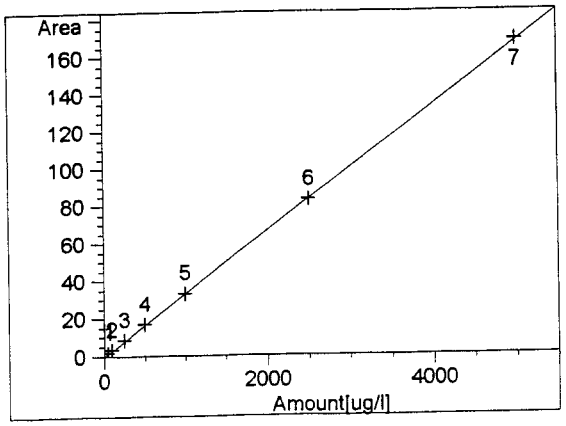
Anthracene at exp. RT: 10.386
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 2.36890
Formula: y = mx + b
m: 4.11465e-1
b: 1.03508
x: Amount[ug/l]
y: Area



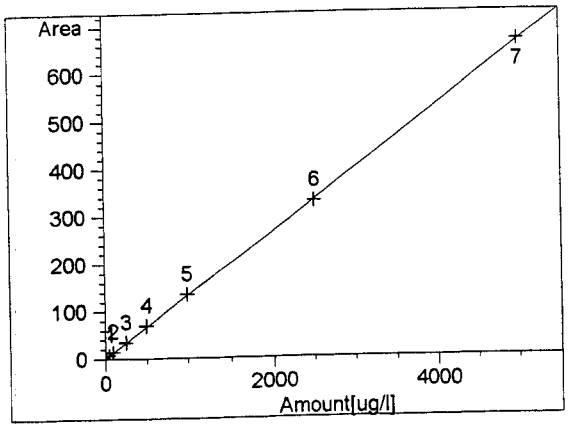
Fluoranthene at exp. RT: 11.504
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.84613
Formula: y = mx + b
m: 4.11083e-2
b: -1.95725e-1
x: Amount[ug/l]
y: Area



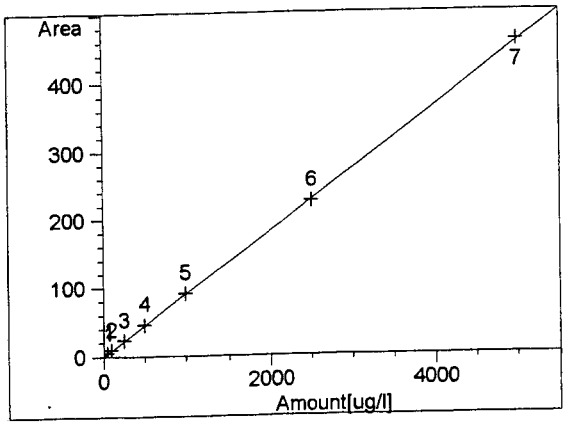
Fluoranthene at exp. RT: 11.543
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.58645
Formula: y = mx + b
m: 4.08100e-2
b: 1.09457e-1
x: Amount[ug/l]
y: Area



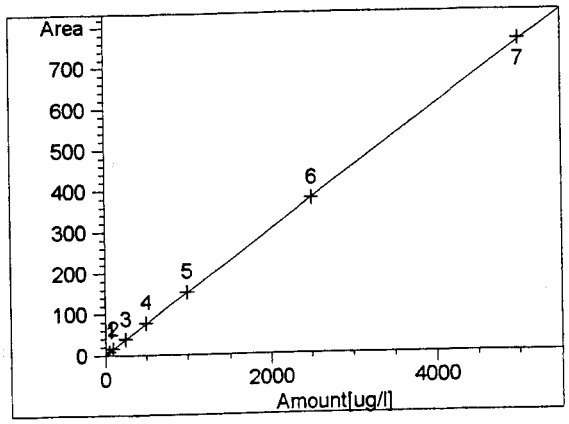
Pyrene at exp. RT: 12.274
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 0.49621
Formula: y = mx + b
m: 3.35757e-2
b: -2.87441e-1
x: Amount[ug/l]
y: Area



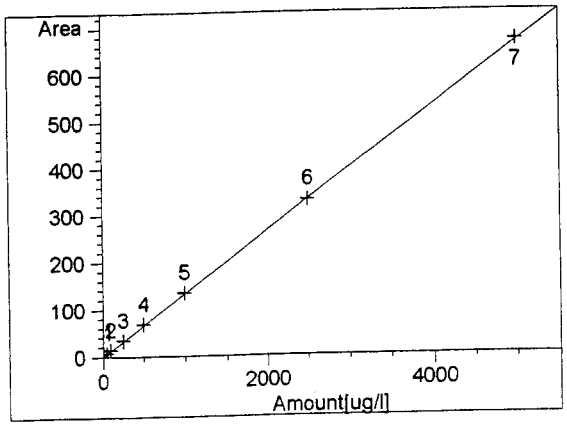
Pyrene at exp. RT: 12.313
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 2.23433
Formula: y = mx + b
m: 1.32777e-1
b: 2.88948e-1
x: Amount[ug/l]
y: Area



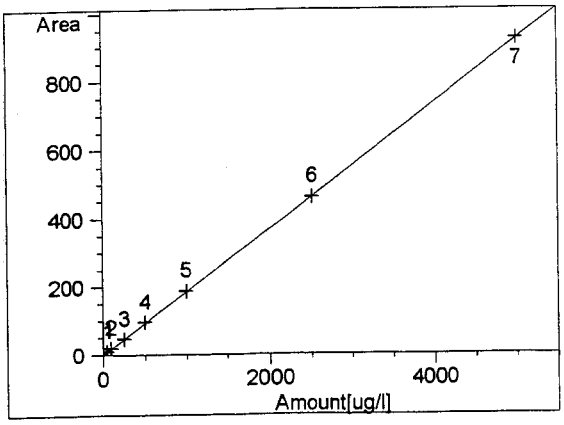
Benzo(a)anthracene at exp. RT: 15.125
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 1.46481
Formula: y = mx + b
m: 9.16421e-2
b: -5.64799e-1
x: Amount[ug/l]
y: Area



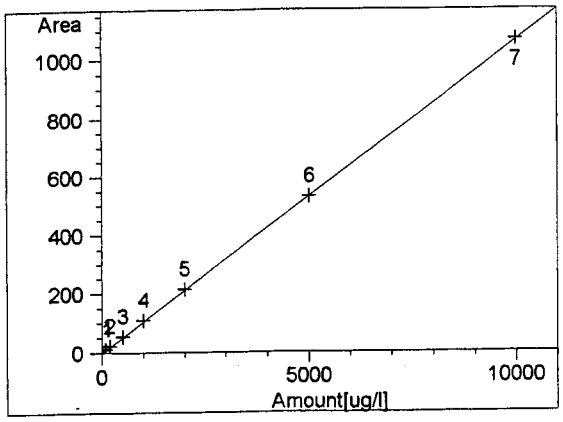
Benzo(a)anthracene at exp. RT: 15.164
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.52788
Formula: y = mx + b
m: 1.51611e-1
b: 2.05410e-1
x: Amount[ug/l]
y: Area



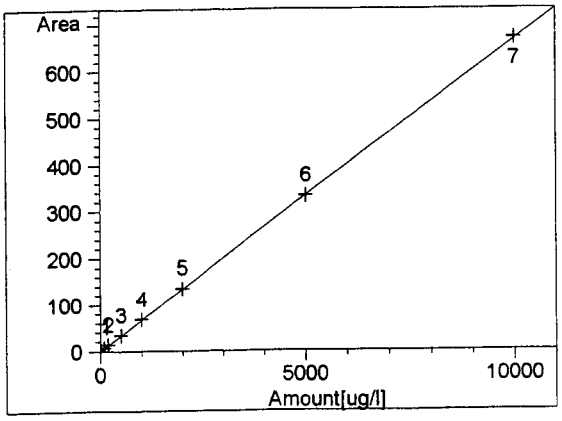
Chrysene at exp. RT: 15.624
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 1.52322
Formula: y = mx + b
m: 1.33357e-1
b: -3.52762e-1
x: Amount[ug/l]
y: Area



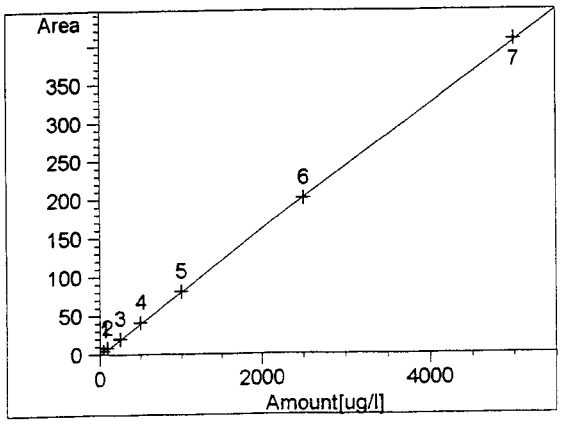
Chrysene at exp. RT: 15.664
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.42864
Formula: y = mx + b
m: 1.84313e-1
b: 9.78301e-1
x: Amount[ug/l]
y: Area



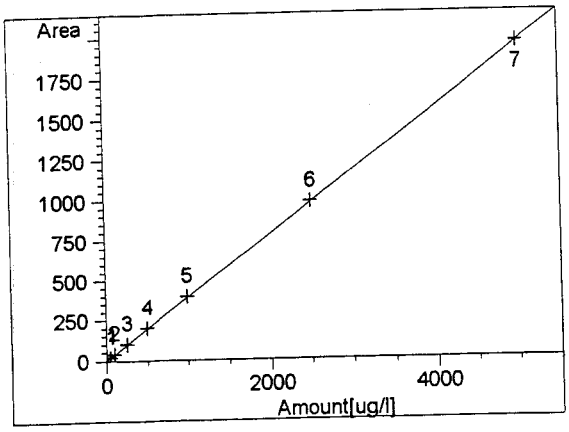
Benzo(b)fluoranthene at exp. RT: 17.842
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 1.79272
Formula: y = mx + b
m: 1.06686e-1
b: -5.73080e-1
x: Amount[ug/l]
y: Area



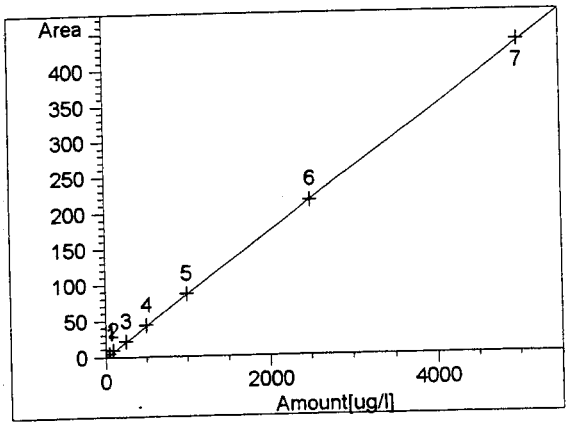
Benzo(b)fluoranthene at exp. RT: 17.883
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.32175
Formula: y = mx + b
m: 6.68690e-2
b: 2.49898e-2
x: Amount[ug/l]
y: Area



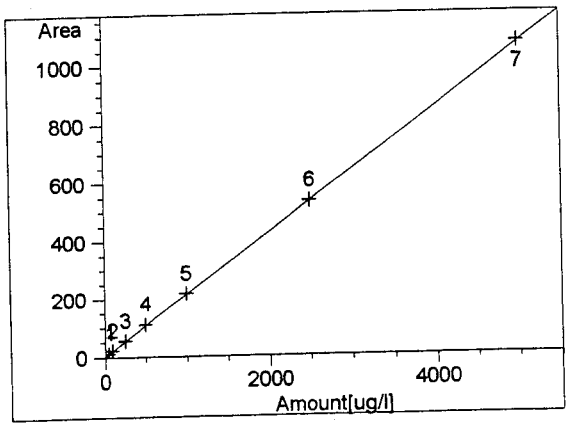
Benzo(k)fluoranthene at exp. RT: 18.796
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.98396
Formula: y = mx + b
m: 8.13261e-2
b: -7.36369e-1
x: Amount[ug/l]
y: Area



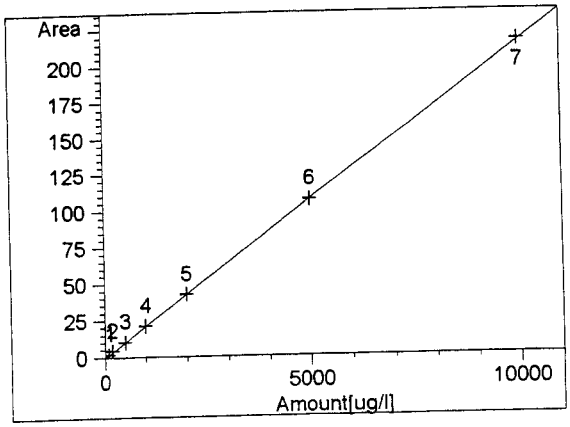
Benzo(k)fluoranthene at exp. RT: 18.837
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 3.29157
Formula: y = mx + b
m: 3.90262e-1
b: 2.80891
x: Amount[ug/l]
y: Area



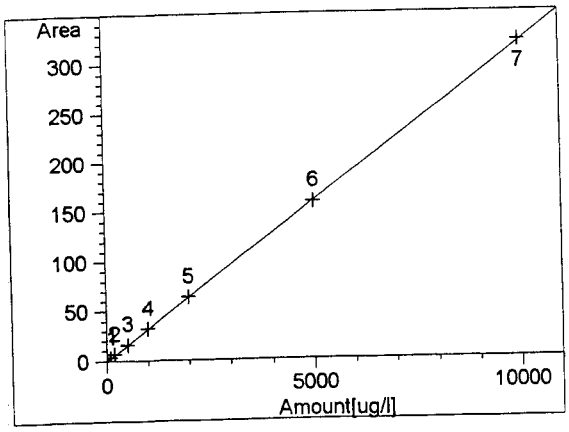
Benzo(a)pyrene at exp. RT: 19.734
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.88457
Formula: y = mx + b
m: 8.70219e-2
b: -7.06704e-1
x: Amount[ug/l]
y: Area



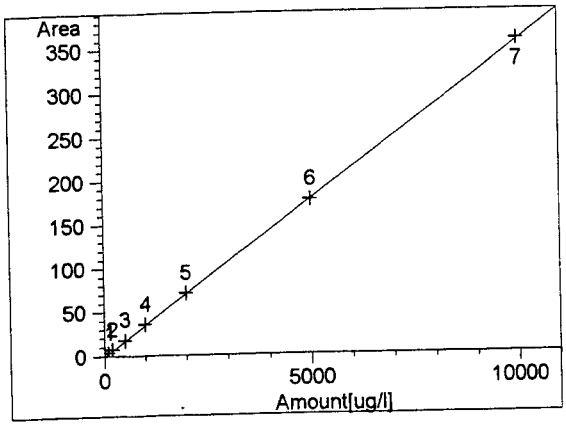
Benzo(a)pyrene at exp. RT: 19.774
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.54630
Formula: y = mx + b
m: 2.14053e-1
b: 8.29784e-1
x: Amount[ug/l]
y: Area



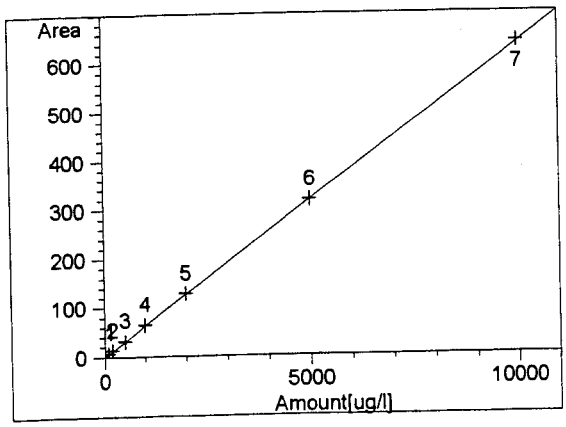
Dibenz(a,h)anthracene at exp. RT: 21.335
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.47152
Formula: y = mx + b
m: 2.15889e-2
b: -6.24820e-1
x: Amount[ug/l]
y: Area



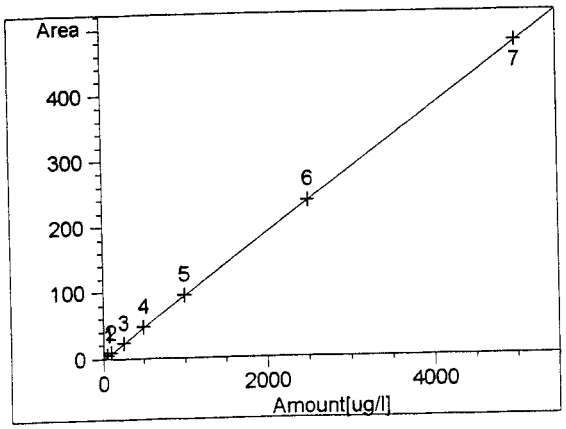
Dibenz(a,h)anthracene at exp. RT: 21.376
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.69795
Formula: y = mx + b
m: 3.19738e-2
b: -4.70523e-1
x: Amount[ug/l]
y: Area



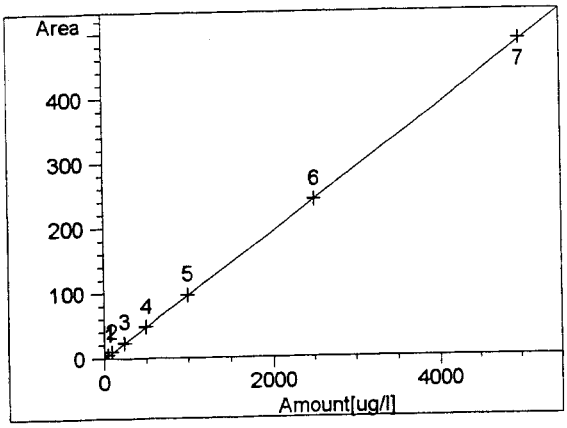
Benzo(g,h,i)perylene at exp. RT: 22.099
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.90912
Formula: y = mx + b
m: 3.57236e-2
b: -6.18946e-1
x: Amount[ug/l]
y: Area



Benzo(g,h,i)perylene at exp. RT: 22.140
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.13249
Formula: y = mx + b
m: 6.38382e-2
b: -5.42335e-1
x: Amount[ug/l]
y: Area



Indeno(1,2,3-cd)pyrene at exp. RT: 22.620
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.59301
Formula: y = mx + b
m: 9.53650e-2
b: -8.30323e-1
x: Amount[ug/l]
y: Area



Indeno(1,2,3-cd)pyrene at exp. RT: 22.661
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.87865
Formula: y = mx + b
m: 9.72272e-2
b: -5.98930e-1
x: Amount[ug/l]
y: Area

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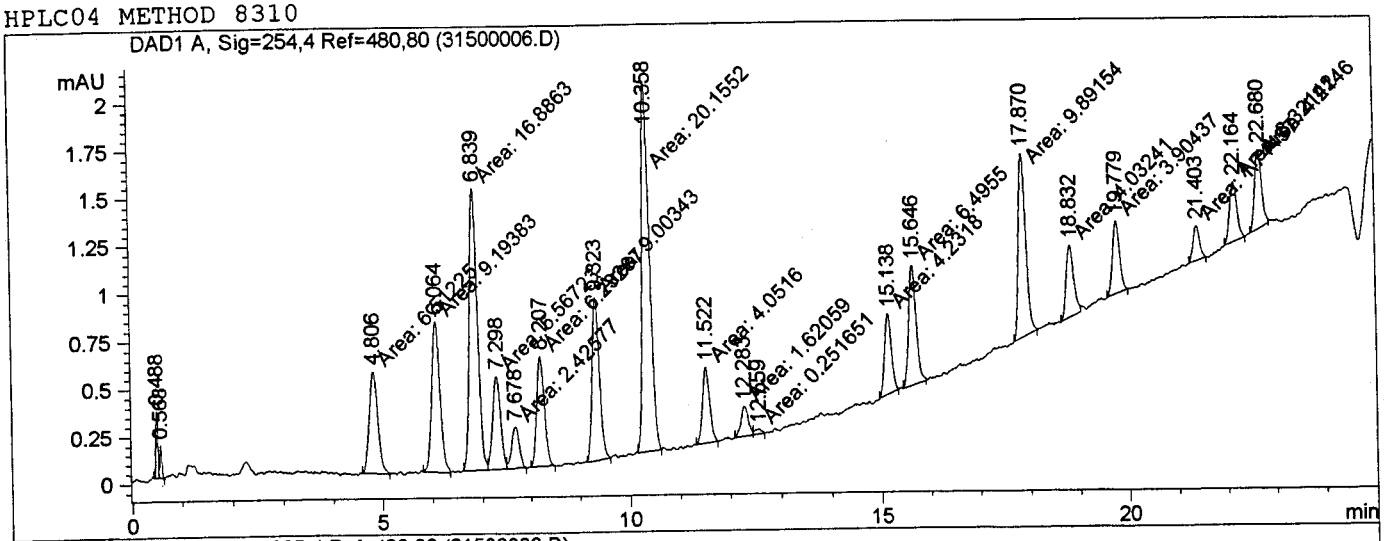
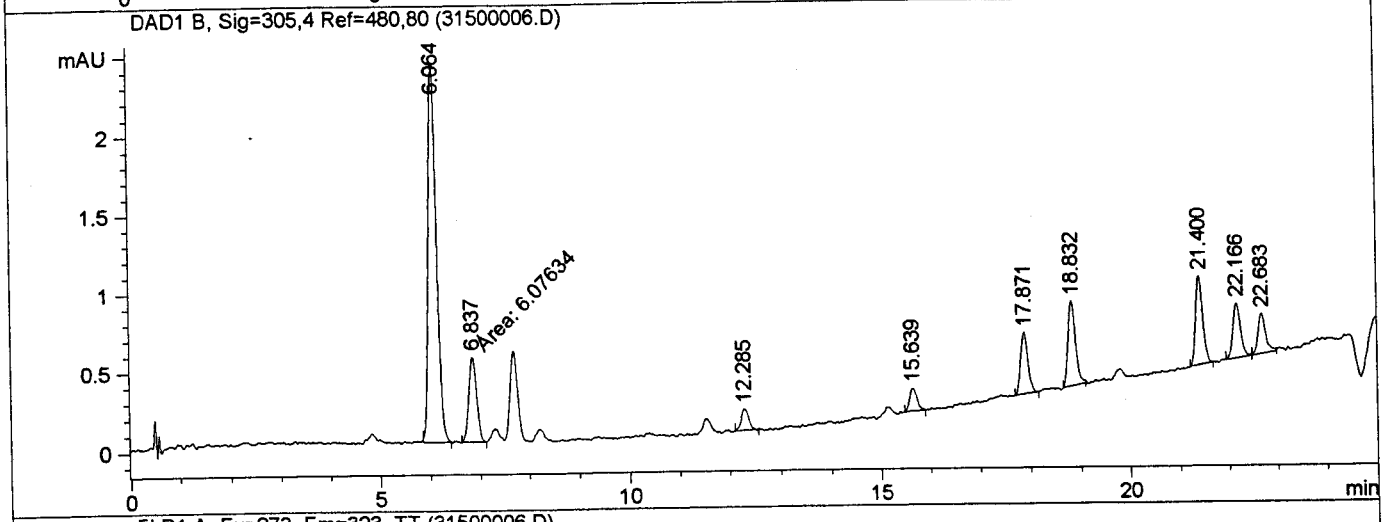
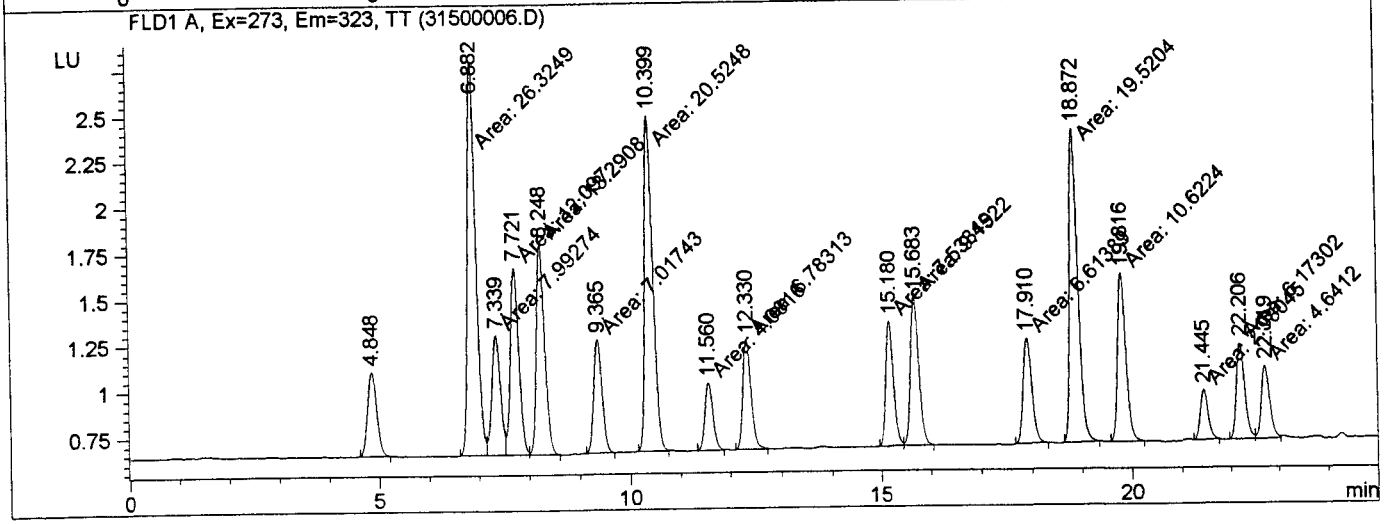
Injection Date	: 11/11/2005 1:27:15 PM	Seq. Line	: 6
Sample Name	: ICAL,S1620	Location	: Vial 6
Acq. Operator	: HPL	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		

HPLC04 METHOD 8310







JM 14 NOV 2005

External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.806	MM	6.51225	56.86105	370.29343		Naphthalene
6.064	MM	9.19383	58.19914	535.07300		Acenaphthylene
6.839	MF	16.88634	73.04479	1233.45919		1-Methylnaphthalene (UV)
7.298	MF	5.56723	57.99403	322.86608		2-Methylnaphthalene
7.678	FM	2.42577	147.05712	356.72647		Acenaphthene
8.207	MM	6.23287	12.11196	75.49227		Fluorene
9.323	MM	9.00343	2.76923	24.93256		Phenanthrene
10.358	MM	20.15521	1.91776	38.65276		Anthracene
11.522	MM	4.05160	19.76988	80.09961		Fluoranthene
12.283	MF	1.62059	35.10247	56.88681		Pyrene
15.138	MM	4.23180	10.93045	46.25550		Benzo(a)anthracene
15.646	MM	6.49550	5.89676	38.30237		Chrysene
17.870	MM	9.89154	7.77704	76.92689		Benzo(b)fluoranthene
18.832	MF	4.03241	11.96373	48.24266		Benzo(k)fluoranthene
19.779	MM	3.90437	11.75763	45.90614		Benzo(a)pyrene
21.403	MM	1.74457	56.46976	98.51531		Dibenz(a,h)anthracene
22.164	MM	3.32142	28.03996	93.13242		Benzo(g,h,i)perylene
22.680	MM	4.21460	9.19393	38.74875		Indeno(1,2,3-cd)pyrene

Totals : 3580.51221

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.064	BP	27.33126	24.71319	675.44268		Acenaphthylene
6.837	MM	6.07634	213.49637	1297.27738		1-Methylnaphthalene (UV)

Totals : 1972.72006

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.848	BB	5.89779	49.41812	291.45757		Naphthalene
6.882	MF	26.32489	30.40977	800.53371		1-Methylnaphthalene (F)
7.339	MF	7.99274	39.37761	314.73504		2-Methylnaphthalene
7.721	MF	12.09695	29.44551	356.20097		Acenaphthene
8.248	FM	13.29075	4.05727	53.92417		Fluorene
9.365	MM	7.01743	3.35131	23.51756		Phenanthrene
10.399	MM	20.52480	1.63013	33.45802		Anthracene
11.560	MM	4.08160	20.52283	83.76600		Fluoranthene
12.330	MM	6.78313	7.86729	53.36481		Pyrene
15.180	MF	7.53349	5.17794	39.00797		Benzo(a)anthracene
15.683	FM	9.15220	2.67273	24.46138		Chrysene

Data File G:\HPLC4\DATA\31500006.D

Sample Name: ICAL,S1620

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.910	MM	6.61389	10.62492	70.27206		Benzo(b)fluoranthene
18.872	MM	19.52037	1.78030	34.75221		Benzo(k)fluoranthene
19.816	MM	10.62241	3.35282	35.61502		Benzo(a)pyrene
21.445	MM	2.98045	33.40539	99.56307		Dibenz(a,h)anthracene
22.206	MF	6.17302	14.19328	87.61536		Benzo(g,h,i)perylene
22.719	MF	4.64120	9.78017	45.39175		Indeno(1,2,3-cd)pyrene
Totals :				2447.63667		

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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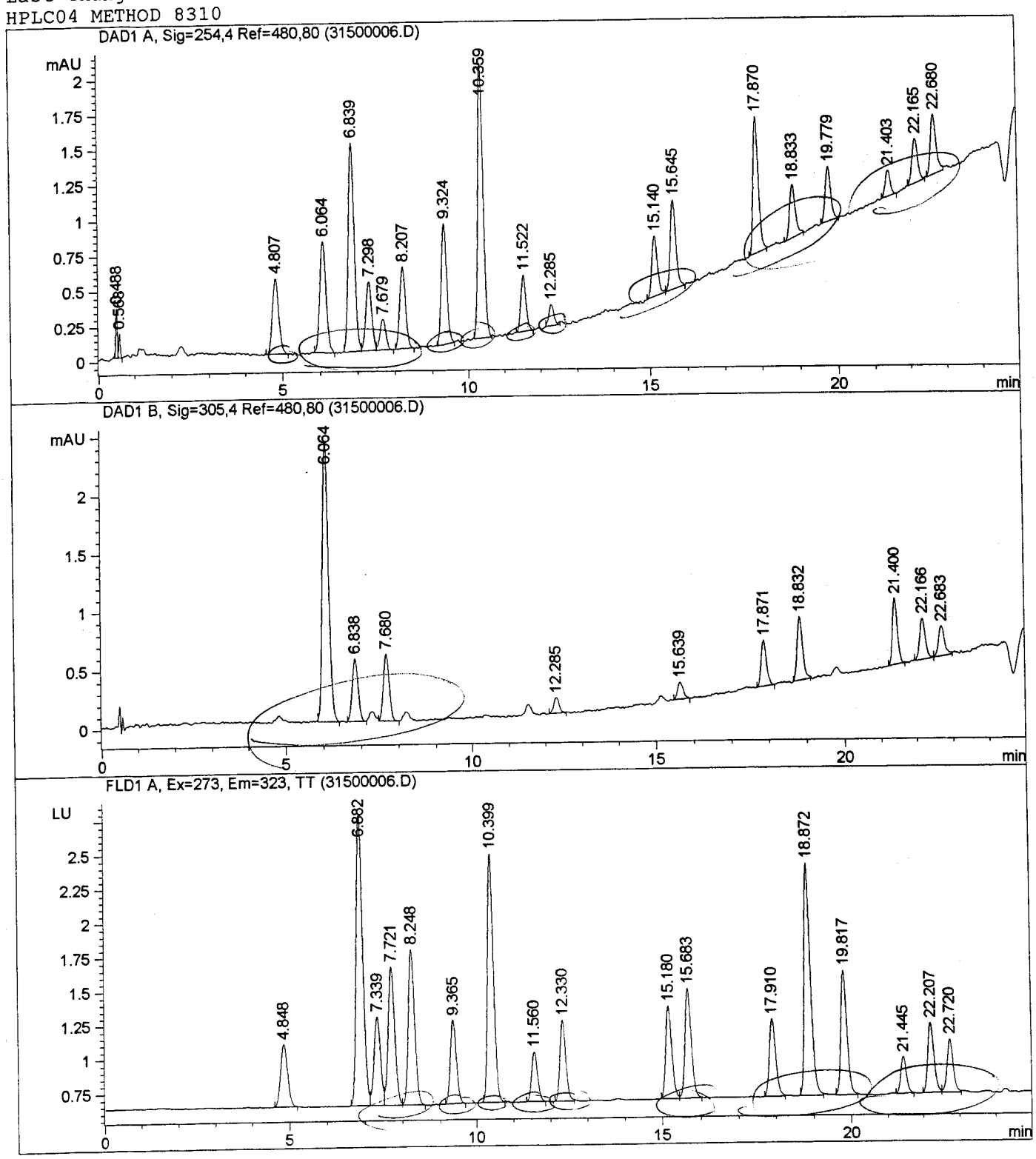
*** End of Report ***

Injection Date	: 11/11/2005 1:27:15 PM	Seq. Line	: 6
Sample Name	: ICAL,S1620	Location	: Vial 6
Acq. Operator	: HPL	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Sequence File	: G:\HPLC4\SEQUENCE\111105.S		
Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		

HPLC04 METHOD 8310



External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.807	BB	6.48843	56.79090	368.48387		Naphthalene
6.064	BP	9.08332	57.60331	523.22952		Acenaphthylene
6.839	BV	16.84054	72.92289	1228.06089		1-Methylnaphthalene (UV)
7.298	VV	5.53367	57.82593	319.98974		2-Methylnaphthalene
7.679	VP	2.37214	145.70353	345.62860		Acenaphthene
8.207	BP	6.18553	12.08387	74.74518		Fluorene
9.324	PB	9.00831	2.77079	24.96015		Phenanthrene
10.359	BB	20.20749	1.91976	38.79358		Anthracene
11.522	BP	3.99073	19.69836	78.61085		Fluoranthene
12.285	BB	1.55857	35.23862	54.92173		Pyrene
15.140	PB	4.45730	10.96271	48.86406		Benzo(a)anthracene
15.645	BB	6.62136	5.92577	39.23667		Chrysene
17.870	PB	9.93459	7.78333	77.32422		Benzo(b)fluoranthene
18.833	PB	4.02658	11.96323	48.17094		Benzo(k)fluoranthene
19.779	BB	3.97740	11.77272	46.82479		Benzo(a)pyrene
21.403	BP	1.79815	56.17209	101.00558		Dibenz(a,h)anthracene
22.165	BB	3.50165	28.13018	98.50199		Benzo(g,h,i)perylene
22.680	BB	4.68536	9.33797	43.75172		Indeno(1,2,3-cd)pyrene

Totals : 3561.10408

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.064	BP	27.33126	24.71319	675.44268		Acenaphthylene
6.838	BB	6.07096	213.39573	1295.51707		1-Methylnaphthalene (UV)

Totals : 1970.95975

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.848	BB	5.89779	49.41812	291.45757		Naphthalene
6.882	BV	26.27604	30.30604	796.32285		1-Methylnaphthalene (F)
7.339	VV	7.97189	39.30745	313.35471		2-Methylnaphthalene
7.721	VV	12.09099	29.43684	355.92065		Acenaphthene
8.248	VP	13.24561	4.04421	53.56798		Fluorene
9.365	BB	7.01924	3.35243	23.53151		Phenanthrene
10.399	BB	20.54425	1.63136	33.51512		Anthracene
11.560	BB	4.03565	20.46929	82.60681		Fluoranthene
12.330	BB	6.70945	7.86191	52.74905		Pyrene
15.180	BV	7.56173	5.18664	39.22003		Benzo(a)anthracene
15.683	VB	9.20633	2.69021	24.76698		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.910	BB	6.59814	10.61285	70.02508		Benzo(b)fluoranthene
18.872	BB	19.53803	1.78116	34.80030		Benzo(k)fluoranthene
19.817	BB	10.65707	3.35968	35.80430		Benzo(a)pyrene
21.445	BB	2.96583	33.41073	99.09071		Dibenz(a,h)anthracene
22.207	BV	6.13286	14.17284	86.92008		Benzo(g,h,i)perylene
22.720	VB	4.60901	9.77185	45.03854		Indeno(1,2,3-cd)pyrene

Totals : 2438.69226

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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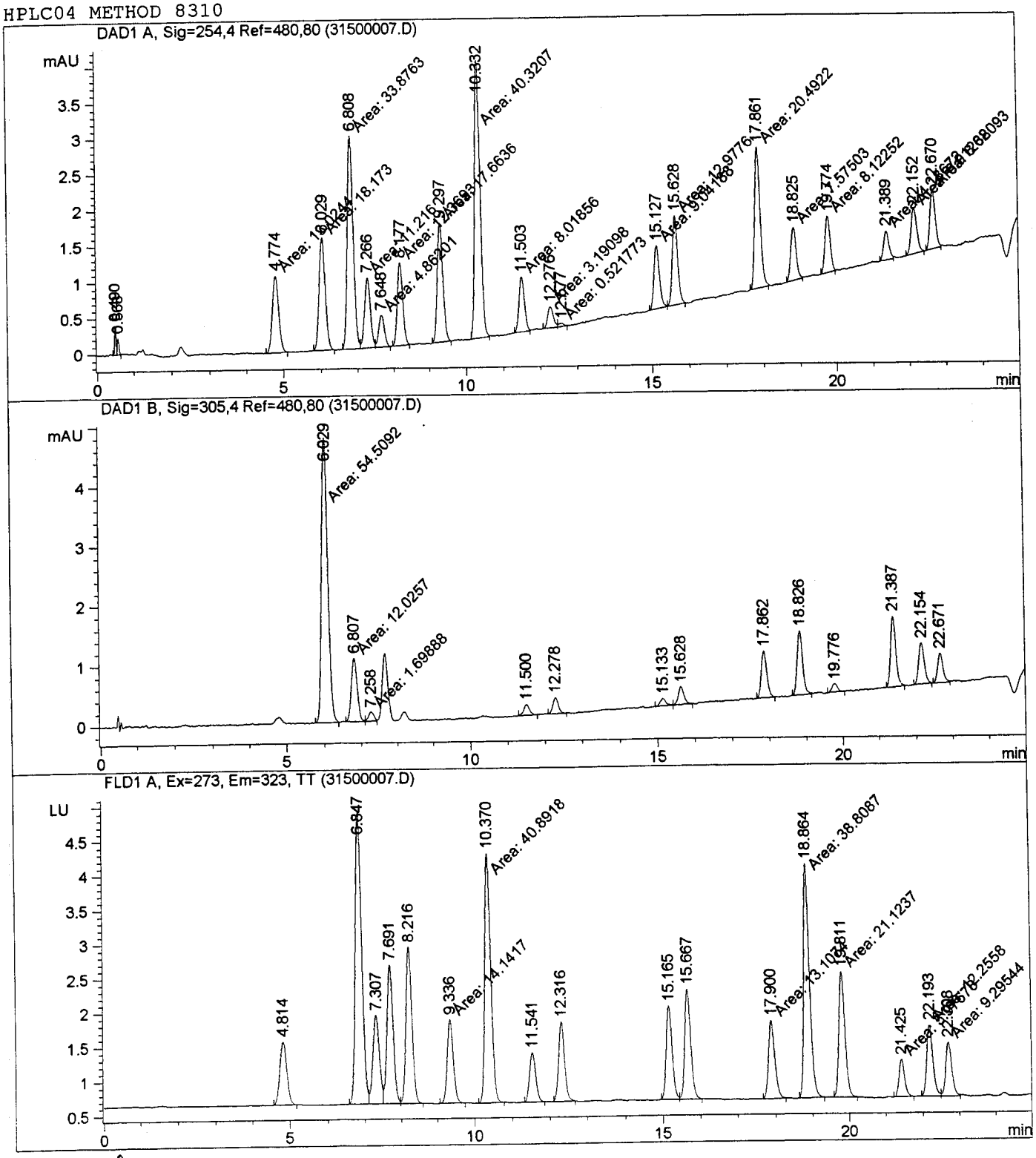
Injection Date	: 11/11/2005 1:58:51 PM	Seq. Line :	7
Sample Name	: ICAL,S1619	Location :	Vial 7
Acq. Operator	: HPL	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 11/14/2005 1:57:45 PM by HPL (modified after loading)		

HPLC04 METHOD 8310



JM 14 NOV 2005

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : Monday, November 14, 2005 1:57:34 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.774	MM	13.02439	66.99216	872.53169		Naphthalene
6.029	MM	18.17297	83.55352	1518.41598		Acenaphthylene
6.808	MF	33.87627	96.71765	3276.43283		1-Methylnaphthalene (UV)
7.266	FM	11.21599	73.32296	822.38937		2-Methylnaphthalene
7.648	FM	4.86201	178.86653	869.65035		Acenaphthene
8.177	MM	12.36933	14.06433	173.96632		Fluorene
9.297	MM	17.66359	4.22227	74.58050		Phenanthrene
10.332	MM	40.32065	2.29591	92.57274		Anthracene
11.503	MM	8.01856	22.16832	177.75807		Fluoranthene
12.276	MF	3.19098	32.73741	104.46441		Pyrene
15.127	MF	9.04188	11.28061	101.99799		Benzo(a)anthracene
15.628	FM	12.97757	6.69923	86.93967		Chrysene
17.861	MM	20.49215	8.60298	176.29366		Benzo(b)fluoranthene
18.825	MM	7.57503	12.17796	92.24839		Benzo(k)fluoranthene
19.774	MM	8.12252	12.03393	97.74582		Benzo(a)pyrene
21.389	MF	4.18672	51.13310	214.08023		Dibenz(a,h)anthracene
22.152	MM	6.91262	28.57869	197.55357		Benzo(g,h,i)perylene
22.670	MF	8.38093	10.03182	84.07599		Indeno(1,2,3-cd)pyrene

Totals : 9033.69759

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.029	MM	54.50918	30.31678	1652.54260		Acenaphthylene
6.807	MF	12.02570	272.17570	3273.10290		1-Methylnaphthalene (UV)

Totals : 4925.64550

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.814	BB	11.75017	70.01231	822.65631		Naphthalene
6.847	BV	52.31355	58.35180	3052.58985		1-Methylnaphthalene (F)
7.307	VV	15.91236	53.02456	843.74596		2-Methylnaphthalene
7.691	VV	24.11610	37.94756	915.14708		Acenaphthene
8.216	VB	26.56478	6.03100	160.21208		Fluorene
9.336	MF	14.14166	5.57014	78.77106		Phenanthrene
10.370	MF	40.89180	2.24842	91.94181		Anthracene
11.541	BB	8.04222	22.88283	184.02884		Fluoranthene
12.316	BB	13.19262	8.03945	106.06138		Pyrene
15.165	BV	14.92142	6.27323	93.60547		Benzo(a)anthracene
15.667	VB	18.25678	4.18510	76.40636		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.900	MM	13.10739	13.13570	172.17470		Benzo(b)fluoranthene
18.864	MM	38.80871	2.24549	87.14466		Benzo(k)fluoranthene
19.811	MM	21.12371	4.28178	90.44708		Benzo(a)pyrene
21.425	MM	5.97678	32.79226	195.99214		Dibenz(a,h)anthracene
22.193	MF	12.25580	15.52988	190.33112		Benzo(g,h,i)perylene
22.708	MF	9.29544	10.32540	95.97914		Indeno(1,2,3-cd)pyrene

Totals : 7257.23505

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

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*** End of Report ***

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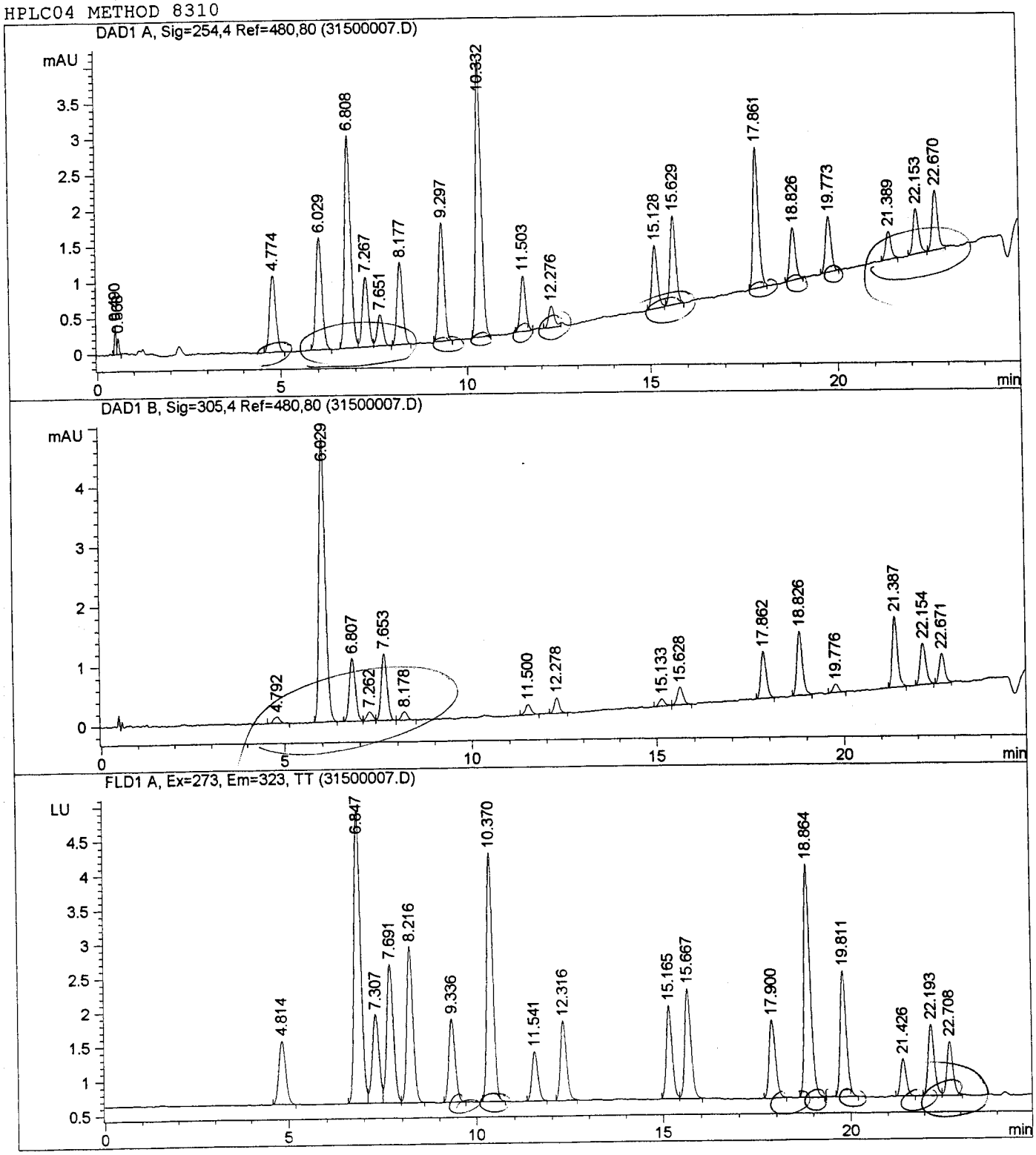
Injection Date : 11/11/2005 1:58:51 PM
Sample Name : ICAL,S1619
Acq. Operator : HPL
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\111105.S
Method : G:\HPLC4\METHODS\8310-279.M
Last changed : 10/6/2005 3:43:10 PM by HPL
HPLC04 METHOD 8310

Seq. Line : 7
Location : Vial 7
Inj : 1
Inj Volume : 10 µl



External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.774	BB	12.93610	66.34936	858.30216		Naphthalene
6.029	BP	18.10486	82.30406	1490.10338		Acenaphthylene
6.808	BV	33.69632	95.40349	3214.74658		1-Methylnaphthalene (UV)
7.267	VV	11.08442	71.79145	795.76654		2-Methylnaphthalene
7.651	VP	4.74731	176.33443	837.11399		Acenaphthene
8.177	BB	12.32529	13.92603	171.64236		Fluorene
9.297	BP	17.60023	4.17662	73.50957		Phenanthrene
10.332	BB	40.26488	2.30532	92.82361		Anthracene
11.503	BB	8.10875	22.11645	179.33672		Fluoranthene
12.276	BB	3.37576	33.32367	112.49269		Pyrene
15.128	BB	9.04709	11.26978	101.95875		Benzo(a)anthracene
15.629	BP	12.98439	6.65961	86.47095		Chrysene
17.861	BB	20.42125	8.52533	174.09794		Benzo(b)fluoranthene
18.826	PB	7.64667	12.12618	92.72493		Benzo(k)fluoranthene
19.773	PB	8.07857	12.18233	98.41584		Benzo(a)pyrene
21.389	PB	4.19752	50.63165	212.52734		Dibenz(a,h)anthracene
22.153	BB	6.92526	28.95217	200.50147		Benzo(g,h,i)perylene
22.670	BB	8.89846	9.94855	88.52670		Indeno(1,2,3-cd)pyrene
Totals :				8881.06150		

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.029	BB	54.47855	29.93431	1630.77756		Acenaphthylene
6.807	BV	12.00962	269.56399	3237.36076		1-Methylnaphthalene (UV)
Totals :				4868.13833		

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.814	BB	11.75017	69.75120	819.58829		Naphthalene
6.847	BV	52.31355	58.12799	3040.88144		1-Methylnaphthalene (F)
7.307	VV	15.91236	52.73126	839.07877		2-Methylnaphthalene
7.691	VV	24.11610	38.21651	921.63314		Acenaphthene
8.216	VB	26.56478	5.97242	158.65617		Fluorene
9.336	BB	14.06300	5.54162	77.93185		Phenanthrene
10.370	BB	40.76149	2.27821	92.86343		Anthracene
11.541	BB	8.04222	22.83820	183.66985		Fluoranthene
12.316	BB	13.19262	8.10517	106.92843		Pyrene
15.165	BV	14.92142	6.33121	94.47071		Benzo(a)anthracene
15.667	VB	18.25678	4.15561	75.86804		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.900	BB	13.14865	13.13871	172.75625		Benzo(b)fluoranthene
18.864	BB	38.92237	2.25029	87.58671		Benzo(k)fluoranthene
19.811	BB	21.28449	4.40834	93.82927		Benzo(a)pyrene
21.426	BB	5.97265	32.86253	196.27623		Dibenz(a,h)anthracene
22.193	BV	12.27477	15.74478	193.26353		Benzo(g,h,i)perylene
22.708	VB	9.31294	10.37773	96.64717		Indeno(1,2,3-cd)pyrene
Totals :				7251.92928		

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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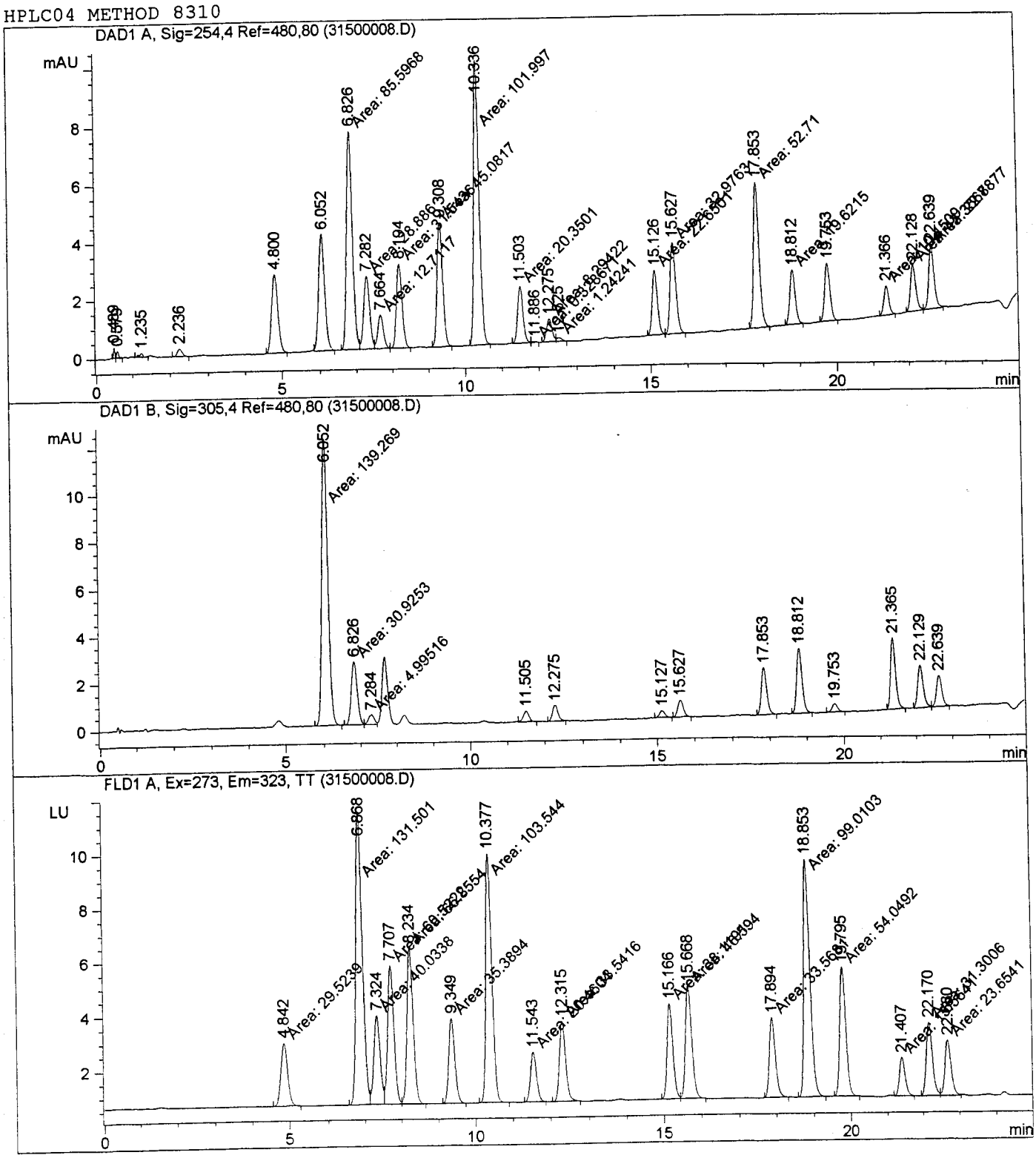
Injection Date	: 11/11/2005 2:30:29 PM	Seq. Line	: 8
Sample Name	: ICAL,S1618	Location	: Vial 8
Acq. Operator	: HPL	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 11/14/2005 3:00:13 PM by HPL (modified after loading)		

HPLC04 METHOD 8310



Cfm 14 NOV 2005

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, November 14, 2005 3:00:10 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.800	BB	32.45070	72.70009	2359.16858		Naphthalene
6.052	BB	46.41474	98.73175	4582.60878		Acenaphthylene
6.826	MF	85.59682	110.17545	9430.66834		1-Methylnaphthalene (UV)
7.282	MF	28.88600	81.58671	2356.71340		2-Methylnaphthalene
7.664	MF	12.71169	197.23768	2507.22512		Acenaphthene
8.194	FM	31.54358	15.18195	478.89303		Fluorene
9.308	MM	45.08168	5.12333	230.96823		Phenanthrene
10.336	MM	101.99684	2.52989	258.04046		Anthracene
11.503	MF	20.35011	23.65285	481.33803		Fluoranthene
12.275	MF	8.29422	32.00940	265.49301		Pyrene
15.126	MF	22.65013	11.42245	258.72010		Benzo(a)anthracene
15.627	FM	32.97633	7.19471	237.25512		Chrysene
17.853	MM	52.71000	9.03563	476.26797		Benzo(b)fluoranthene
18.812	MM	19.62153	12.32258	241.78789		Benzo(k)fluoranthene
19.753	BB	21.05889	12.35024	260.08227		Benzo(a)pyrene
21.366	MM	10.15091	48.21422	489.41796		Dibenz(a,h)anthracene
22.128	MF	17.35672	29.29287	508.42823		Benzo(g,h,i)perylene
22.639	MF	22.88771	10.53760	241.18165		Indeno(1,2,3-cd)pyrene

Totals : 2.56643e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.052	MF	139.26938	33.52302	4668.72991		Acenaphthylene
6.826	MF	30.92526	307.37816	9505.74842		1-Methylnaphthalene (UV)

Totals : 1.41745e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.842	MM	29.52386	82.28063	2429.24189		Naphthalene
6.868	MF	131.50134	75.18472	9886.89193		1-Methylnaphthalene (F)
7.324	MF	40.03383	61.08019	2445.27424		2-Methylnaphthalene
7.707	MF	60.52220	43.21715	2615.59688		Acenaphthene
8.234	FM	66.85545	7.17540	479.71428		Fluorene
9.349	MF	35.38944	6.86115	242.81233		Phenanthrene
10.377	MF	103.54391	2.64167	273.52895		Anthracene
11.543	MF	20.46036	24.34715	498.15134		Fluoranthene
12.315	MM	33.54156	8.19409	274.84250		Pyrene
15.166	MF	38.11910	6.98704	266.33956		Benzo(a)anthracene
15.668	FM	46.59403	5.09200	237.25667		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.894	MM	33.56808	14.71074	493.81120		Benzo(b)fluoranthene
18.853	MM	99.01035	2.53583	251.07334		Benzo(k)fluoranthene
19.795	MM	54.04917	4.96313	268.25313		Benzo(a)pyrene
21.407	FM	15.56407	32.54079	506.46715		Dibenz(a,h)anthracene
22.170	MF	31.30061	16.54396	517.83608		Benzo(g,h,i)perylene
22.680	MF	23.65410	10.70895	253.31063		Indeno(1,2,3-cd)pyrene

Totals : 2.19404e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

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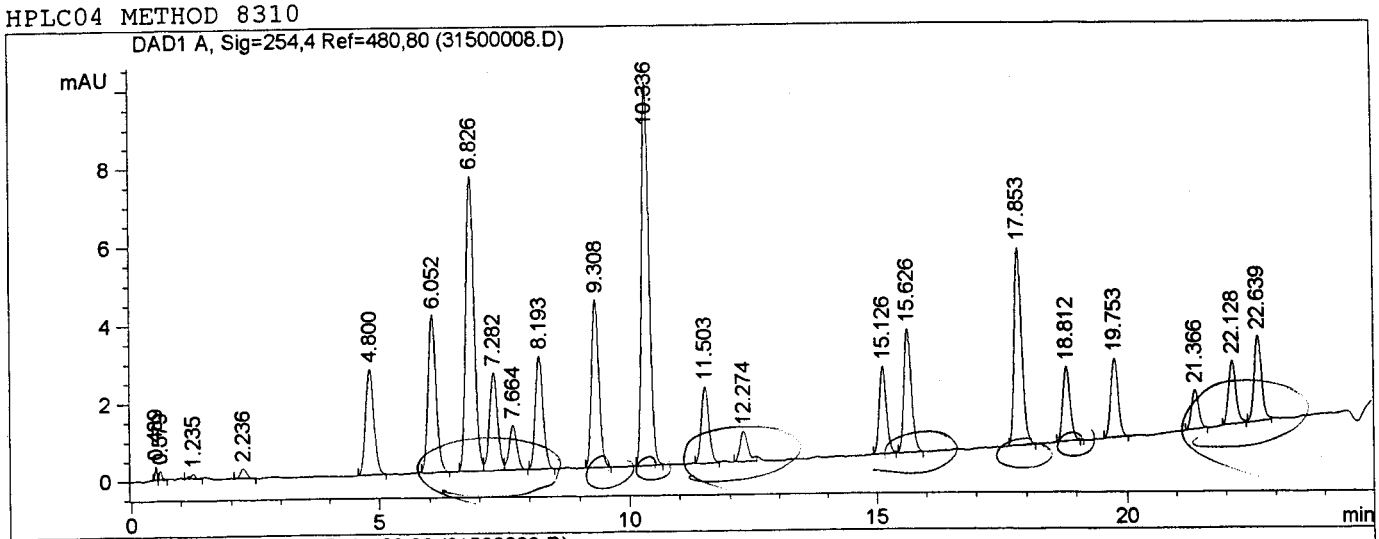
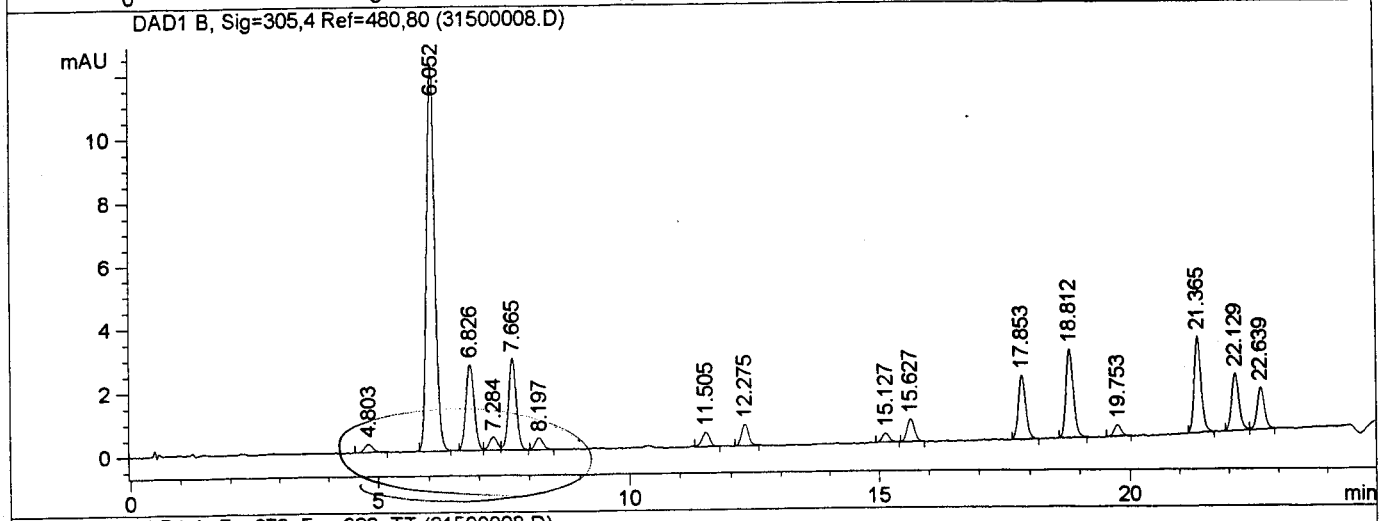
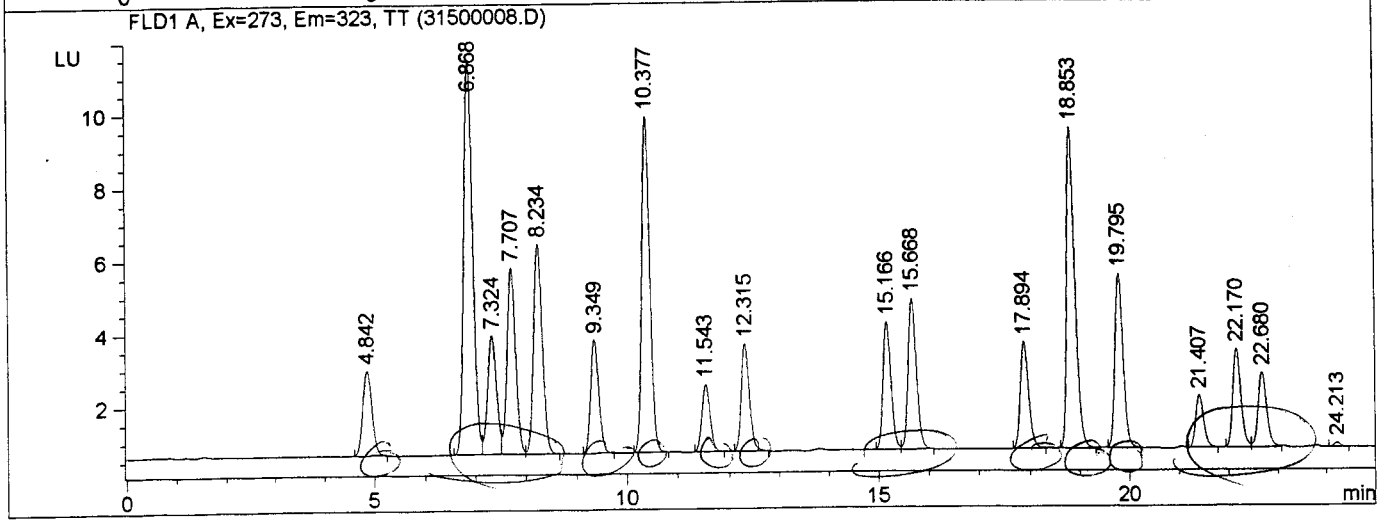
*** End of Report ***

Injection Date	: 11/11/2005 2:30:29 PM	Seq. Line :	8
Sample Name	: ICAL,S1618	Location :	Vial 8
Acq. Operator	: HPL	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Sequence File	: G:\HPLC4\SEQUENCE\111105.S		
Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		

HPLC04 METHOD 8310







External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.800	BB	32.45070	72.13379	2340.79149		Naphthalene
6.052	BB	46.41474	97.47305	4524.18642		Acenaphthylene
6.826	BV	85.48909	109.01084	9319.23762		1-Methylnaphthalene (UV)
7.282	VV	28.86073	80.36683	2319.44495		2-Methylnaphthalene
7.664	VB	12.75819	195.54302	2494.77487		Acenaphthene
8.193	BP	31.35541	15.05241	471.97439		Fluorene
9.308	BB	44.95625	5.07354	228.08720		Phenanthrene
10.336	BB	101.81434	2.54015	258.62379		Anthracene
11.503	BB	20.25716	23.52177	476.48430		Fluoranthene
12.274	BB	8.86513	32.30667	286.40285		Pyrene
15.126	BB	22.58729	11.44855	258.59180		Benzo(a)anthracene
15.626	BB	32.85527	7.12145	233.97726		Chrysene
17.853	BB	52.60531	8.95539	471.10131		Benzo(b)fluoranthene
18.812	BB	19.49981	12.23636	238.60663		Benzo(k)fluoranthene
19.753	BB	21.05889	12.42719	261.70278		Benzo(a)pyrene
21.366	BB	9.82602	48.25325	474.13755		Dibenz(a,h)anthracene
22.128	BB	17.33887	29.45711	510.75295		Benzo(g,h,i)perylene
22.639	BB	22.90755	10.36379	237.40916		Indeno(1,2,3-cd)pyrene

Totals : 2.54063e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.052	BB	139.20410	33.13364	4612.33824		Acenaphthylene
6.826	BV	30.88276	304.65438	9408.56827		1-Methylnaphthalene (UV)

Totals : 1.40209e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.842	BB	29.54389	82.09246	2425.33050		Naphthalene
6.868	BV	131.35318	75.02275	9854.47696		1-Methylnaphthalene (F)
7.324	VV	39.92328	60.83664	2428.79830		2-Methylnaphthalene
7.707	VV	60.68877	43.53636	2642.16794		Acenaphthene
8.234	VP	66.88683	7.12841	476.79680		Fluorene
9.349	BB	35.33434	6.85493	242.21443		Phenanthrene
10.377	BB	103.36371	2.67632	276.63413		Anthracene
11.543	BB	20.42098	24.28460	495.91516		Fluoranthene
12.315	BP	33.42951	8.25757	276.04666		Pyrene
15.166	BV	38.16887	7.04747	268.99399		Benzo(a)anthracene
15.668	VB	46.75665	5.06420	236.78521		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.894	BB	33.65839	14.68903	494.40905		Benzo(b)fluoranthene
18.853	BB	99.28812	2.53778	251.97150		Benzo(k)fluoranthene
19.795	BB	54.40104	5.04849	274.64337		Benzo(a)pyrene
21.407	VB	15.67480	32.52783	509.86704		Dibenz(a,h)anthracene
22.170	BV	31.43434	16.70147	524.99978		Benzo(g,h,i)perylene
22.680	VB	23.90936	10.74014	256.78992		Indeno(1,2,3-cd)pyrene

Totals : 2.19368e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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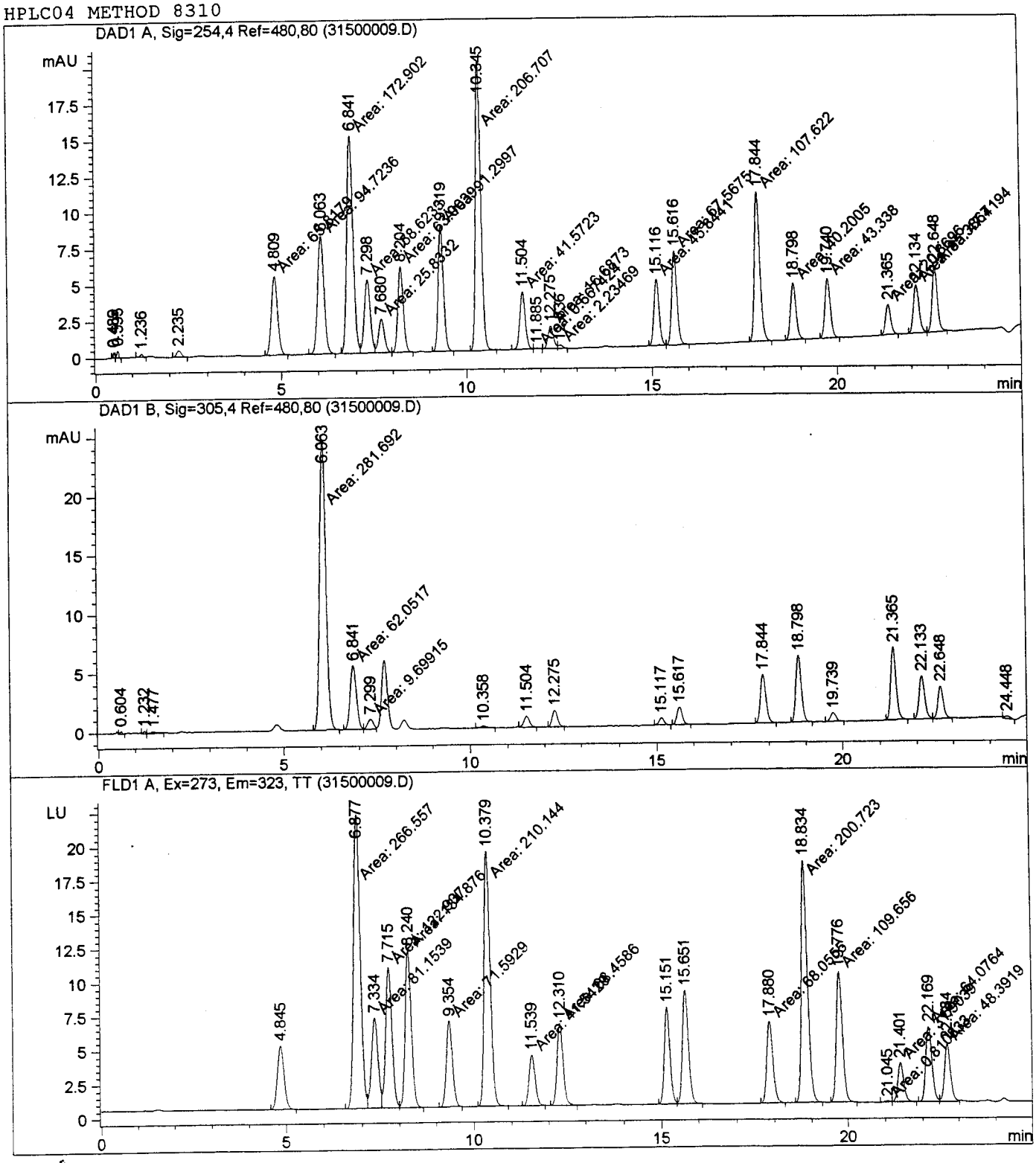
Injection Date	: 11/11/2005 3:02:07 PM	Seq. Line	: 9
Sample Name	: ICAL,S1617	Location	: Vial 9
Acq. Operator	: HPL	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 11/14/2005 3:07:01 PM by HPL (modified after loading)		

HPLC04 METHOD 8310



Gm 14NOV2005

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, November 14, 2005 3:06:58 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.809	MM	65.81794	74.68990	4915.93565		Naphthalene
6.063	FM	94.72365	103.57941	9811.41968		Acenaphthylene
6.841	MF	172.90190	114.52772	1.98021e4		1-Methylnaphthalene (UV)
7.298	MF	58.62328	83.99525	4924.07679		2-Methylnaphthalene
7.680	FM	25.83322	201.74861	5211.81622		Acenaphthene
8.204	FM	63.90393	15.52644	992.20051		Fluorene
9.319	MM	91.29965	5.41015	493.94477		Phenanthrene
10.345	MF	206.70654	2.60142	537.73146		Anthracene
11.504	MF	41.57235	24.11833	1002.65548		Fluoranthene
12.275	MF	16.68730	31.70947	529.14556		Pyrene
15.116	MF	45.84408	11.45890	525.32273		Benzo(a)anthracene
15.616	FM	67.56745	7.34524	496.29920		Chrysene
17.844	MM	107.62183	9.16500	986.35375		Benzo(b)fluoranthene
18.798	MM	40.20050	12.34819	496.40329		Benzo(k)fluoranthene
19.740	MM	43.33799	12.39316	537.09448		Benzo(a)pyrene
21.365	MM	20.86957	47.48779	991.04990		Dibenz(a,h)anthracene
22.134	MF	35.38666	29.52447	1044.77234		Benzo(g,h,i)perylene
22.648	FM	47.41936	10.61514	503.36312		Indeno(1,2,3-cd)pyrene
Totals :				5.38016e4		

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.063	MM	281.69171	34.54217	9730.24318		Acenaphthylene
6.841	MF	62.05173	318.05797	1.97360e4		1-Methylnaphthalene (UV)
Totals :				2.94663e4		

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.845	BB	59.72798	86.28175	5153.43422		Naphthalene
6.877	MF	266.55655	80.64870	2.14974e4		1-Methylnaphthalene (F)
7.334	MF	81.15388	63.66615	5166.75506		2-Methylnaphthalene
7.715	MF	122.93717	44.89577	5519.35887		Acenaphthene
8.240	FM	134.87556	7.55029	1018.34974		Fluorene
9.354	MM	71.59289	7.28517	521.56619		Phenanthrene
10.379	MF	210.14381	2.76086	580.17705		Anthracene
11.539	MF	41.54289	24.76682	1028.88537		Fluoranthene
12.310	MM	68.45862	8.20594	561.76725		Pyrene
15.151	BV	77.56648	7.19253	557.89922		Benzo(a)anthracene
15.651	VB	94.90897	5.38216	510.81504		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.880	MM	68.05548	15.18983	1033.75095		Benzo(b)fluoranthene
18.834	MM	200.72287	2.62546	526.98894		Benzo(k)fluoranthene
19.776	MM	109.65622	5.16005	565.83140		Benzo(a)pyrene
21.401	FM	31.90387	32.38865	1033.32317		Dibenz(a,h)anthracene
22.169	MF	64.07645	16.84718	1079.50768		Benzo(g,h,i)perylene
22.684	MF	48.39191	10.82100	523.64893		Indeno(1,2,3-cd)pyrene

Totals : 4.68795e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

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*** End of Report ***

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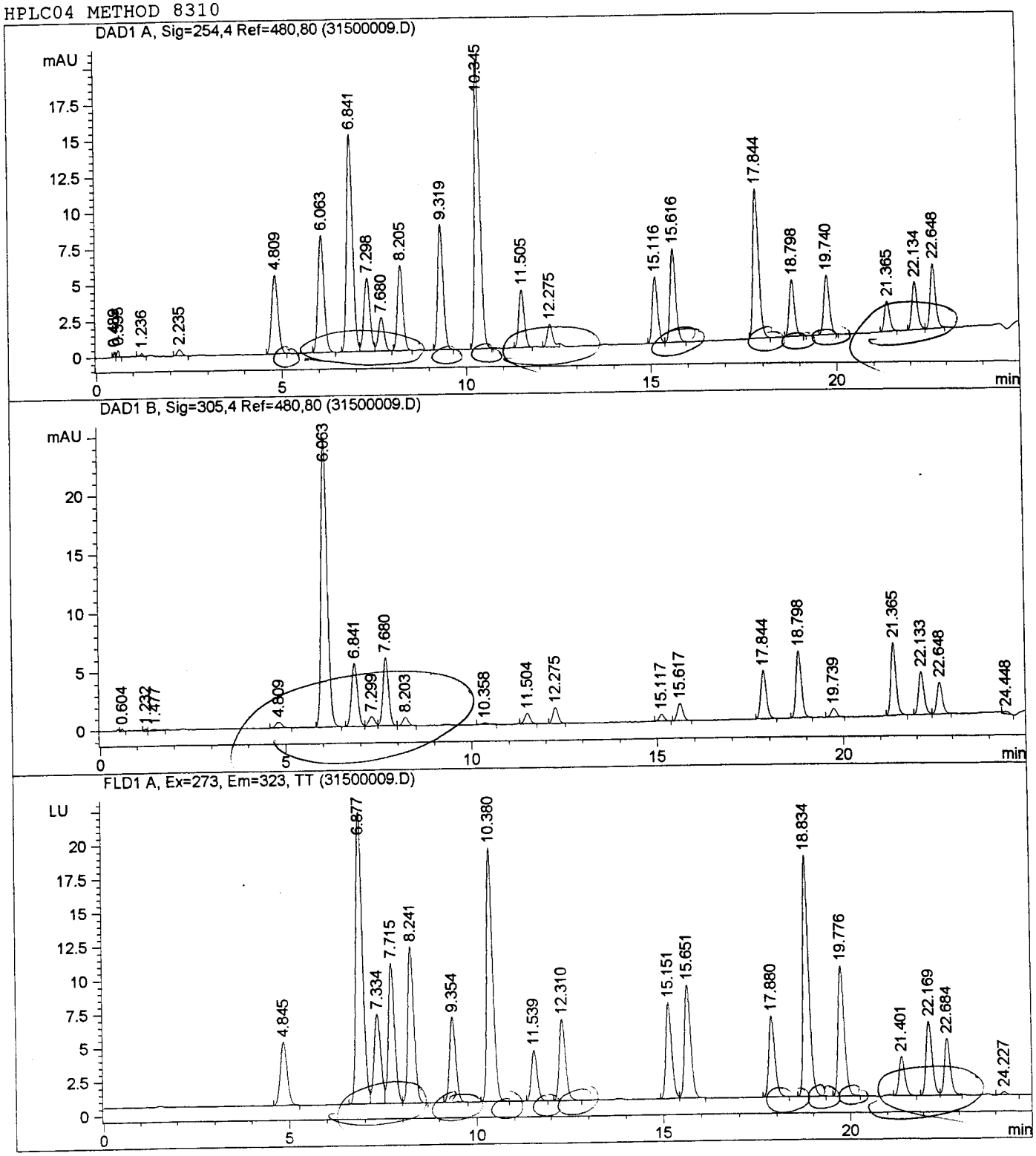
Injection Date : 11/11/2005 3:02:07 PM
Sample Name : ICAL,S1617
Acq. Operator : HPL
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\111105.S
Method : G:\HPLC4\METHODS\8310-279.M
Last changed : 10/6/2005 3:43:10 PM by HPL

Seq. Line : 9
Location : Vial 9
Inj : 1
Inj Volume : 10 µl

HPLC04 METHOD 8310



External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.809	BB	65.71278	74.07469	4867.65345		Naphthalene
6.063	BP	94.12169	102.39011	9637.13016		Acenaphthylene
6.841	BV	172.73824	113.48241	1.96028e4		1-Methylnaphthalene (UV)
7.298	VV	58.57263	83.07927	4866.17115		2-Methylnaphthalene
7.680	VB	25.83042	201.30380	5199.76231		Acenaphthene
8.205	BP	63.65963	15.42261	981.79736		Fluorene
9.319	BB	90.98497	5.36546	488.17656		Phenanthrene
10.345	BB	206.27675	2.61795	540.02164		Anthracene
11.505	BB	41.39744	24.00079	993.57129		Fluoranthene
12.275	BB	17.62935	31.99576	564.06441		Pyrene
15.116	BV	45.72667	11.50900	526.26804		Benzo(a)anthracene
15.616	VB	67.40410	7.27614	490.44141		Chrysene
17.844	BB	107.38456	9.09460	976.61920		Benzo(b)fluoranthene
18.798	BP	39.85841	12.27266	489.16867		Benzo(k)fluoranthene
19.740	BB	43.09857	12.50512	538.95278		Benzo(a)pyrene
21.365	BB	20.85756	47.31513	986.87813		Dibenz(a,h)anthracene
22.134	BV	35.32772	29.62809	1046.69313		Benzo(g,h,i)perylene
22.648	VB	47.31700	10.49986	496.82201		Indeno(1,2,3-cd)pyrene

Totals : 5.32929e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.063	BB	282.09546	34.17567	9640.80043		Acenaphthylene
6.841	BV	62.37429	315.92794	1.97058e4		1-Methylnaphthalene (UV)

Totals : 2.93466e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.845	BB	59.72798	86.21093	5149.20472		Naphthalene
6.877	BV	266.22534	80.68768	2.14811e4		1-Methylnaphthalene (F)
7.334	VV	81.04146	63.56202	5151.15865		2-Methylnaphthalene
7.715	VV	123.21004	45.31641	5583.43619		Acenaphthene
8.241	VP	134.90443	7.51239	1013.45508		Fluorene
9.354	BB	71.58997	7.29465	522.22361		Phenanthrene
10.380	BB	209.99489	2.80794	589.65317		Anthracene
11.539	BB	41.48593	24.76174	1027.26370		Fluoranthene
12.310	BB	68.45389	8.30841	568.74285		Pyrene
15.151	BV	77.56648	7.28098	564.75992		Benzo(a)anthracene
15.651	VB	94.90897	5.35950	508.66493		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.880	BB	68.38180	15.19372	1038.97377		Benzo(b)fluoranthene
18.834	BB	201.39085	2.63176	530.01225		Benzo(k)fluoranthene
19.776	BB	110.50912	5.25739	580.98965		Benzo(a)pyrene
21.401	VB	31.95950	32.42284	1036.21768		Dibenz(a,h)anthracene
22.169	BV	64.03069	17.01349	1089.38566		Benzo(g,h,i)perylene
22.684	VB	48.75404	10.85798	529.37037		Indeno(1,2,3-cd)pyrene
Totals :				4.69646e4		

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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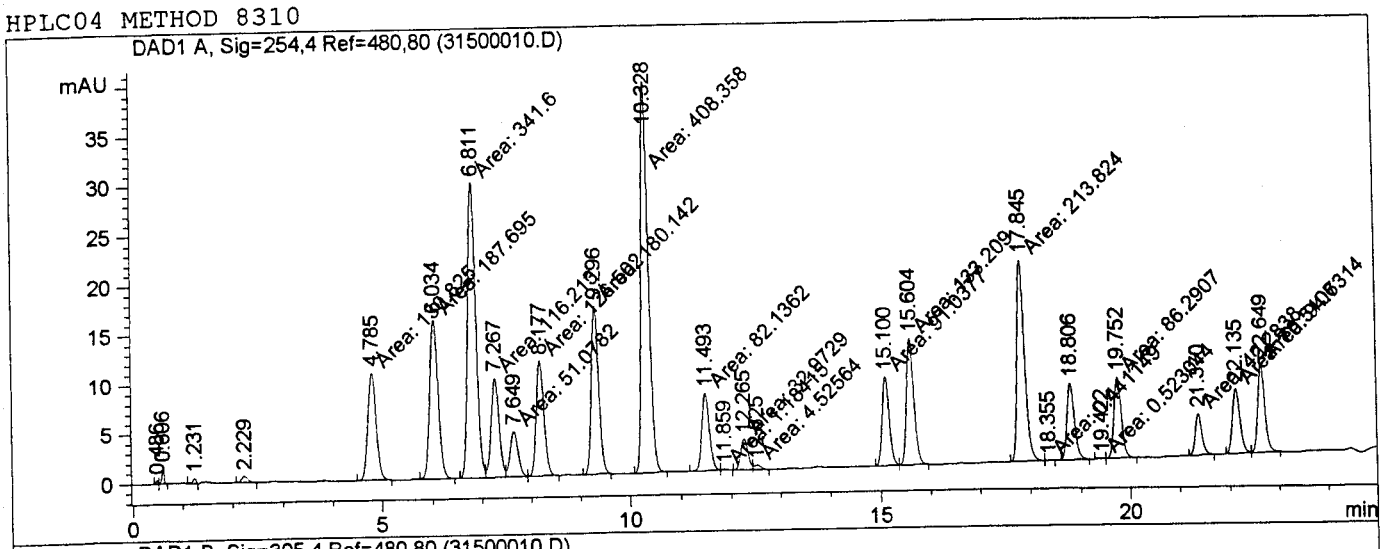
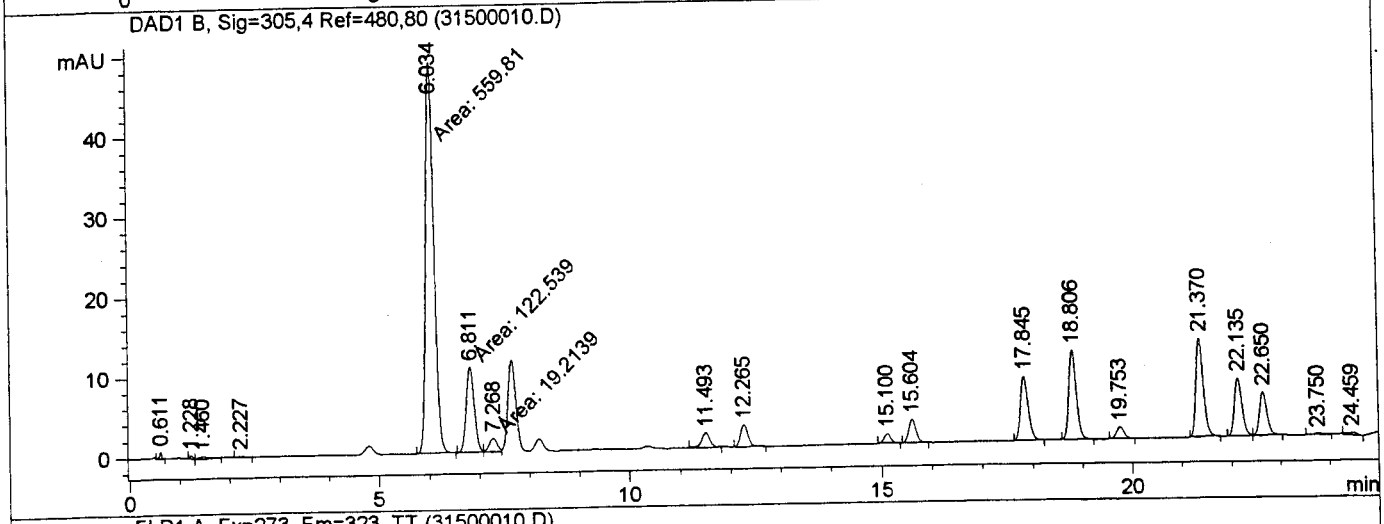
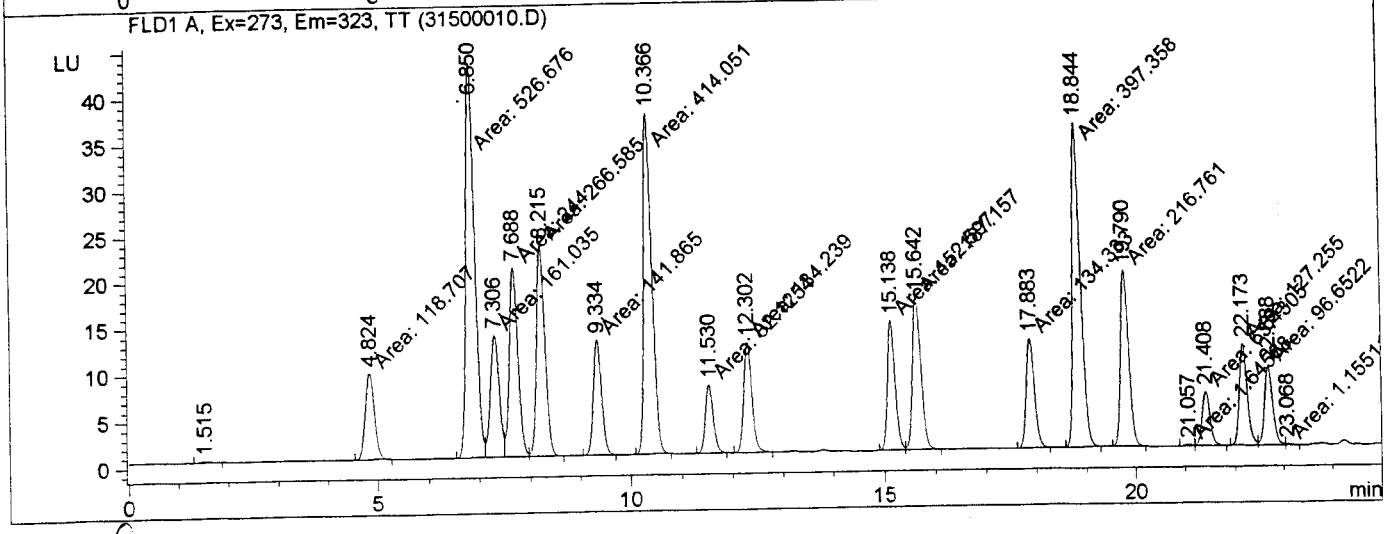
Injection Date	: 11/11/2005 3:33:43 PM	Seq. Line	: 10
Sample Name	: ICAL,S1616	Location	: Vial 10
Acq. Operator	: HPL	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 11/14/2005 3:14:51 PM by HPL (modified after loading)		

HPLC04 METHOD 8310







Cfm 14 NOV 2005

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, November 14, 2005 3:14:48 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.785	MM	130.82538	75.54302	9882.94420		Naphthalene
6.034	FM	187.69478	105.70363	1.98400e4		Acenaphthylene
6.811	MF	341.59979	116.48709	3.97920e4		1-Methylnaphthalene (UV)
7.267	MF	116.21339	85.00920	9879.20684		2-Methylnaphthalene
7.649	FM	51.07816	203.87406	1.04135e4		Acenaphthene
8.177	FM	126.50168	15.68515	1984.19809		Fluorene
9.296	MM	180.14212	5.54173	998.29810		Phenanthrene
10.328	MM	408.35837	2.63616	1076.49807		Anthracene
11.493	MF	82.13621	24.31602	1997.22570		Fluoranthene
12.265	MF	32.97289	31.58154	1041.33440		Pyrene
15.100	MF	91.03773	11.47857	1044.98346		Benzo(a)anthracene
15.604	FM	133.20935	7.39809	985.49501		Chrysene
17.845	MF	213.82385	9.21996	1971.44655		Benzo(b)fluoranthene
18.806	BB	80.29658	12.34046	990.89709		Benzo(k)fluoranthene
19.752	FM	86.29072	12.40943	1070.81845		Benzo(a)pyrene
21.370	MM	42.28377	47.03858	1988.96843		Dibenz(a,h)anthracene
22.135	MF	70.51058	29.55885	2084.21172		Benzo(g,h,i)perylene
22.649	FM	94.73141	10.61609	1005.67688		Indeno(1,2,3-cd)pyrene
Totals :				1.08048e5		

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.034	MM	559.80969	34.99729	1.95918e4		Acenaphthylene
6.811	MF	122.53880	323.25111	3.96108e4		1-Methylnaphthalene (UV)
Totals :				5.92026e4		

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.824	MM	118.70710	88.18639	1.04684e4		Naphthalene
6.850	MF	526.67639	83.23390	4.38373e4		1-Methylnaphthalene (F)
7.306	MF	161.03452	64.87271	1.04467e4		2-Methylnaphthalene
7.688	MF	243.99982	45.76548	1.11668e4		Acenaphthene
8.215	FM	266.58530	7.72147	2058.43018		Fluorene
9.334	MM	141.86461	7.48991	1062.55291		Phenanthrene
10.366	MM	414.05106	2.82175	1168.34684		Anthracene
11.530	MF	82.12543	24.96775	2050.48763		Fluoranthene
12.302	FM	134.23868	8.22917	1104.67311		Pyrene
15.138	MF	152.59743	7.29908	1113.82089		Benzo(a)anthracene
15.642	FM	187.15659	5.51415	1032.00974		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.883	MM	134.33257	15.41683	2070.98167		Benzo(b)fluoranthene
18.844	MM	397.35812	2.66866	1060.41316		Benzo(k)fluoranthene
19.790	MM	216.76112	5.26196	1140.58923		Benzo(a)pyrene
21.408	FM	63.43048	32.29165	2048.27502		Dibenz(a,h)anthracene
22.173	MF	127.25459	16.99433	2162.60667		Benzo(g,h,i)perylene
22.688	FM	96.65224	10.86816	1050.43188		Indeno(1,2,3-cd)pyrene
Totals :				9.50428e4		

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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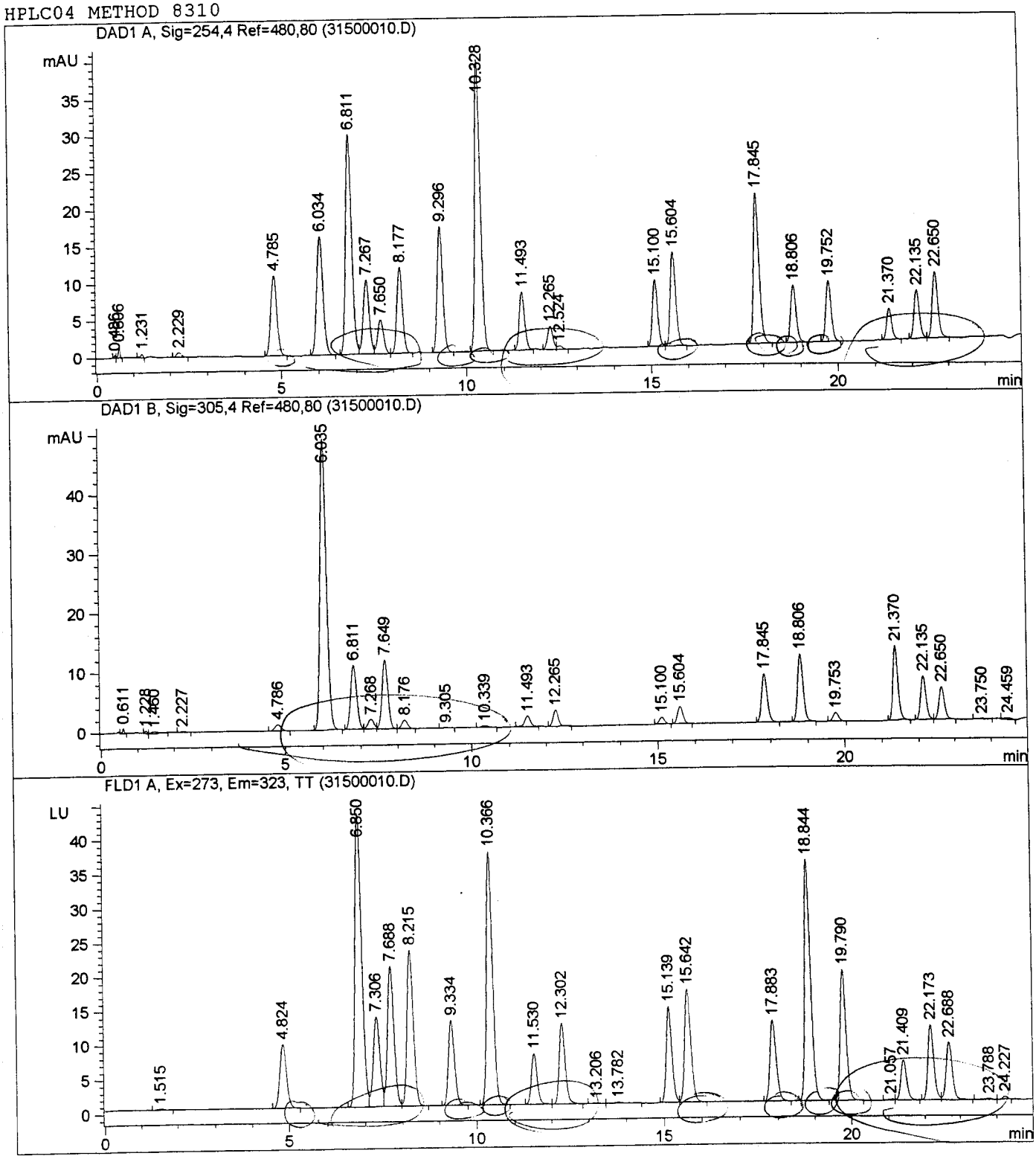
Injection Date : 11/11/2005 3:33:43 PM
Sample Name : ICAL,S1616
Acq. Operator : HPL
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\111105.S
Method : G:\HPLC4\METHODS\8310-279.M
Last changed : 10/6/2005 3:43:10 PM by HPL

Seq. Line : 10
Location : Vial 10
Inj : 1
Inj Volume : 10 µl

HPLC04 METHOD 8310



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.785	BB	130.69728	75.01619	9804.41228		Naphthalene
6.034	BP	186.95413	104.76555	1.95864e4		Acenaphthylene
6.811	BV	341.22687	115.64580	3.94615e4		1-Methylnaphthalene (UV)
7.267	VV	116.13739	84.38521	9800.27753		2-Methylnaphthalene
7.650	VV	51.12721	204.08565	1.04343e4		Acenaphthene
8.177	VP	126.33327	15.60087	1970.90832		Fluorene
9.296	BB	179.98192	5.50645	991.06175		Phenanthrene
10.328	BB	407.93036	2.65543	1083.23037		Anthracene
11.493	BB	81.93497	24.22788	1985.11100		Fluoranthene
12.265	BV	33.02501	31.84914	1051.81825		Pyrene
15.100	BV	90.69476	11.53825	1046.45885		Benzo(a)anthracene
15.604	VB	133.16466	7.34878	978.59770		Chrysene
17.845	BB	213.27332	9.16097	1953.78962		Benzo(b)fluoranthene
18.806	BB	80.29658	12.29017	986.85871		Benzo(k)fluoranthene
19.752	BB	86.13814	12.54233	1080.37258		Benzo(a)pyrene
21.370	BB	42.19322	46.89259	1978.54929		Dibenz(a,h)anthracene
22.135	BV	70.71999	29.71057	2101.13127		Benzo(g,h,i)perylene
22.650	VB	94.98906	10.56395	1003.45958		Indeno(1,2,3-cd)pyrene

Totals : 1.07298e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.035	BB	560.25836	34.67967	1.94296e4		Acenaphthylene
6.811	BV	122.83937	321.36984	3.94769e4		1-Methylnaphthalene (UV)

Totals : 5.89064e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.824	BB	118.72701	88.21412	1.04734e4		Naphthalene
6.850	BV	526.30212	83.41401	4.39010e4		1-Methylnaphthalene (F)
7.306	VV	161.37877	64.87933	1.04701e4		2-Methylnaphthalene
7.688	VV	244.91475	46.17503	1.13089e4		Acenaphthene
8.215	VB	268.10632	7.69999	2064.41684		Fluorene
9.334	BB	143.65472	7.50963	1078.79354		Phenanthrene
10.366	BB	416.53885	2.87121	1195.96919		Anthracene
11.530	BV	84.56513	24.99737	2113.90598		Fluoranthene
12.302	VB	136.60251	8.33261	1138.25589		Pyrene
15.139	BV	152.71040	7.39230	1128.88063		Benzo(a)anthracene
15.642	VB	187.57530	5.50116	1031.88160		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.883	BB	134.70059	15.43458	2079.04669		Benzo(b)fluoranthene
18.844	BB	398.44977	2.67696	1066.63262		Benzo(k)fluoranthene
19.790	BB	217.90498	5.35721	1167.36365		Benzo(a)pyrene
21.409	VB	63.51436	32.37264	2056.12727		Dibenz(a,h)anthracene
22.173	BV	127.26810	17.16300	2184.30307		Benzo(g,h,i)perylene
22.688	VB	98.13403	10.91504	1071.13686		Indeno(1,2,3-cd)pyrene

Totals : 9.55302e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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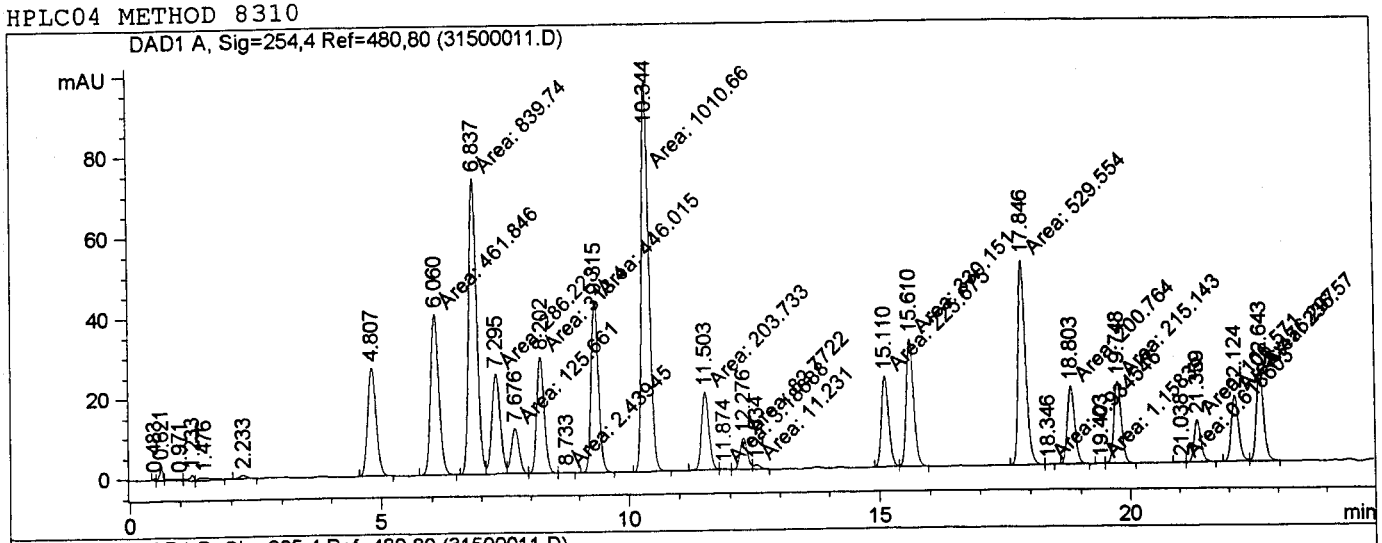
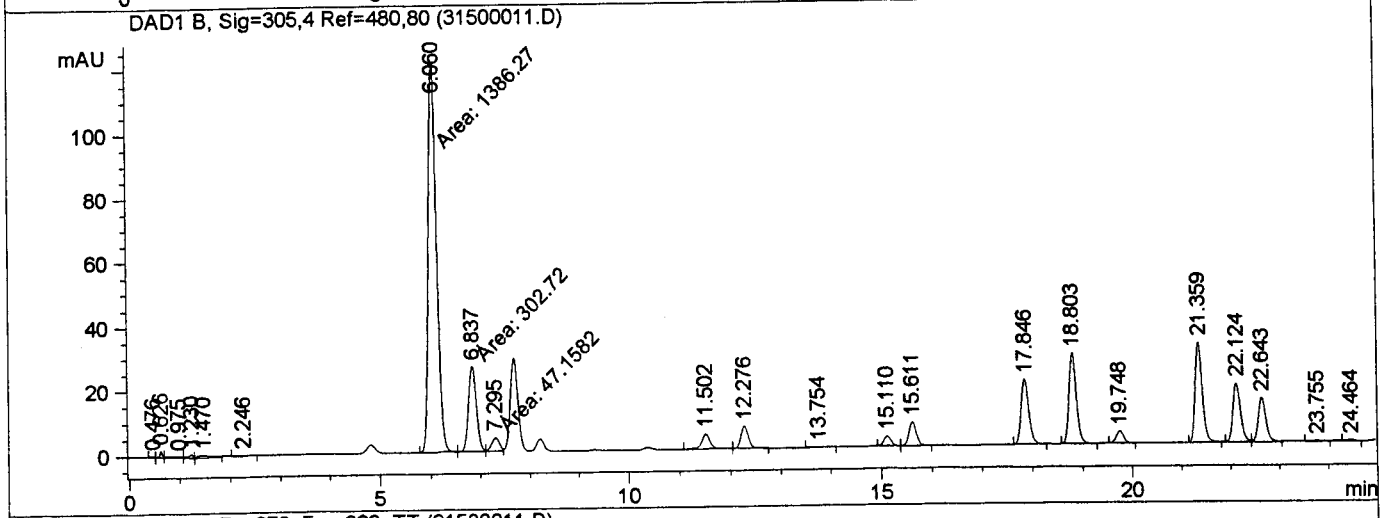
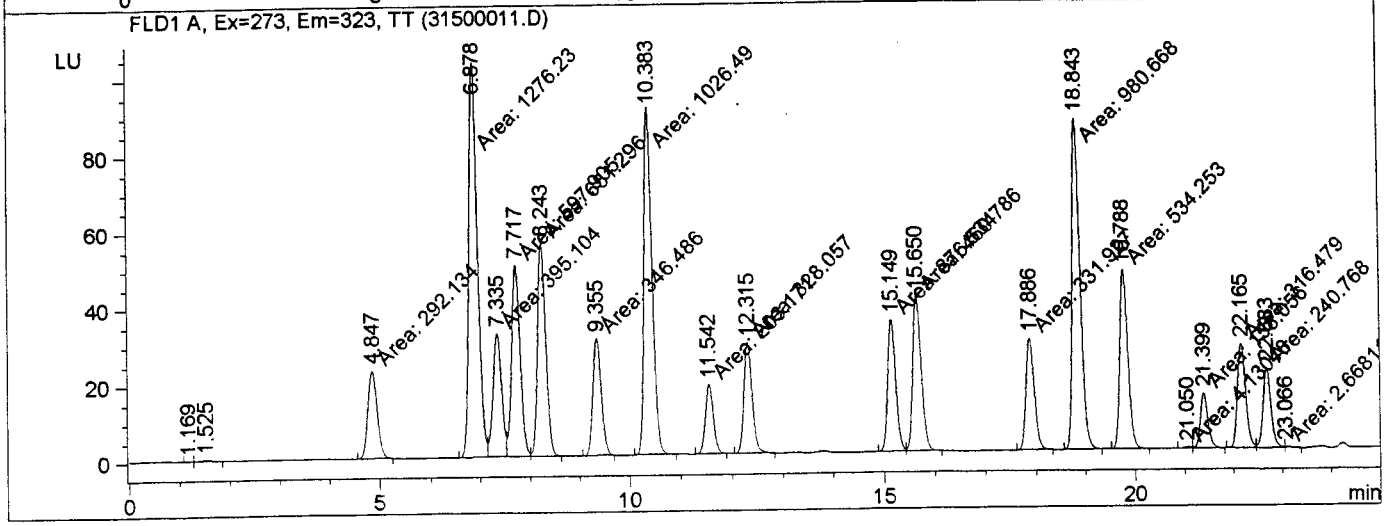
Injection Date	: 11/11/2005 4:05:21 PM	Seq. Line	: 11
Sample Name	: ICAL,S1615	Location	: Vial 11
Acq. Operator	: HPL	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 11/14/2005 3:24:02 PM by HPL (modified after loading)		

HPLC04 METHOD 8310







Chm 14 Nov 2005

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, November 14, 2005 3:23:59 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.807	BB	323.61371	75.88262	2.45567e4		Naphthalene
6.060	FM	461.84637	106.68358	4.92714e4		Acenaphthylene
6.837	MF	839.73962	117.40616	9.85906e4		1-Methylnaphthalene (UV)
7.295	FM	286.22339	85.64761	2.45143e4		2-Methylnaphthalene
7.676	FM	125.66128	205.56332	2.58313e4		Acenaphthene
8.202	FM	313.40030	15.75905	4938.89049		Fluorene
9.315	MM	446.01529	5.61246	2503.24489		Phenanthrene
10.344	MF	1010.66217	2.66779	2696.23356		Anthracene
11.503	MF	203.73349	24.42287	4975.75651		Fluoranthene
12.276	MF	82.77225	31.63674	2618.64393		Pyrene
15.110	MF	225.67519	11.52381	2600.63749		Benzo(a)anthracene
15.610	FM	330.15082	7.41885	2449.33971		Chrysene
17.846	MF	529.55377	9.23486	4890.35241		Benzo(b)fluoranthene
18.803	MM	200.76387	12.32753	2474.92318		Benzo(k)fluoranthene
19.748	FM	215.14328	12.51112	2691.68417		Benzo(a)pyrene
21.359	FM	106.57118	46.71340	4978.30186		Dibenz(a,h)anthracene
22.124	MF	176.29678	29.69153	5234.52195		Benzo(g,h,i)perylene
22.643	MF	236.57013	10.62343	2513.18679		Indeno(1,2,3-cd)pyrene

Totals : 2.68330e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.060	MF	1386.26819	35.15840	4.87390e4		Acenaphthylene
6.837	MF	302.71973	325.90068	9.86566e4		1-Methylnaphthalene (UV)

Totals : 1.47396e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.847	MM	292.13416	89.38284	2.61118e4		Naphthalene
6.878	MF	1276.22900	84.71264	1.08113e5		1-Methylnaphthalene (F)
7.335	MF	395.10352	65.63405	2.59322e4		2-Methylnaphthalene
7.717	FM	597.90503	46.27010	2.76651e4		Acenaphthene
8.243	FM	651.29639	7.82882	5098.88043		Fluorene
9.355	MM	346.48584	7.62343	2641.41109		Phenanthrene
10.383	MF	1026.49353	2.88463	2961.05835		Anthracene
11.542	MF	203.17122	25.12260	5104.18826		Fluoranthene
12.315	FM	328.05682	8.28614	2718.32530		Pyrene
15.149	MF	376.53439	7.41134	2790.62551		Benzo(a)anthracene
15.650	FM	460.78613	5.59125	2576.37103		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.886	MM	331.92670	15.57289	5169.05699		Benzo(b)fluoranthene
18.843	MM	980.66785	2.69598	2643.86535		Benzo(k)fluoranthene
19.788	MM	534.25336	5.37679	2872.56627		Benzo(a)pyrene
21.399	FM	158.05646	32.30976	5106.76669		Dibenz(a,h)anthracene
22.165	MF	316.47900	17.17133	5434.36481		Benzo(g,h,i)perylene
22.683	FM	240.76752	10.92160	2629.56726		Indeno(1,2,3-cd)pyrene
Totals :				2.35569e5		

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

==========

*** End of Report ***

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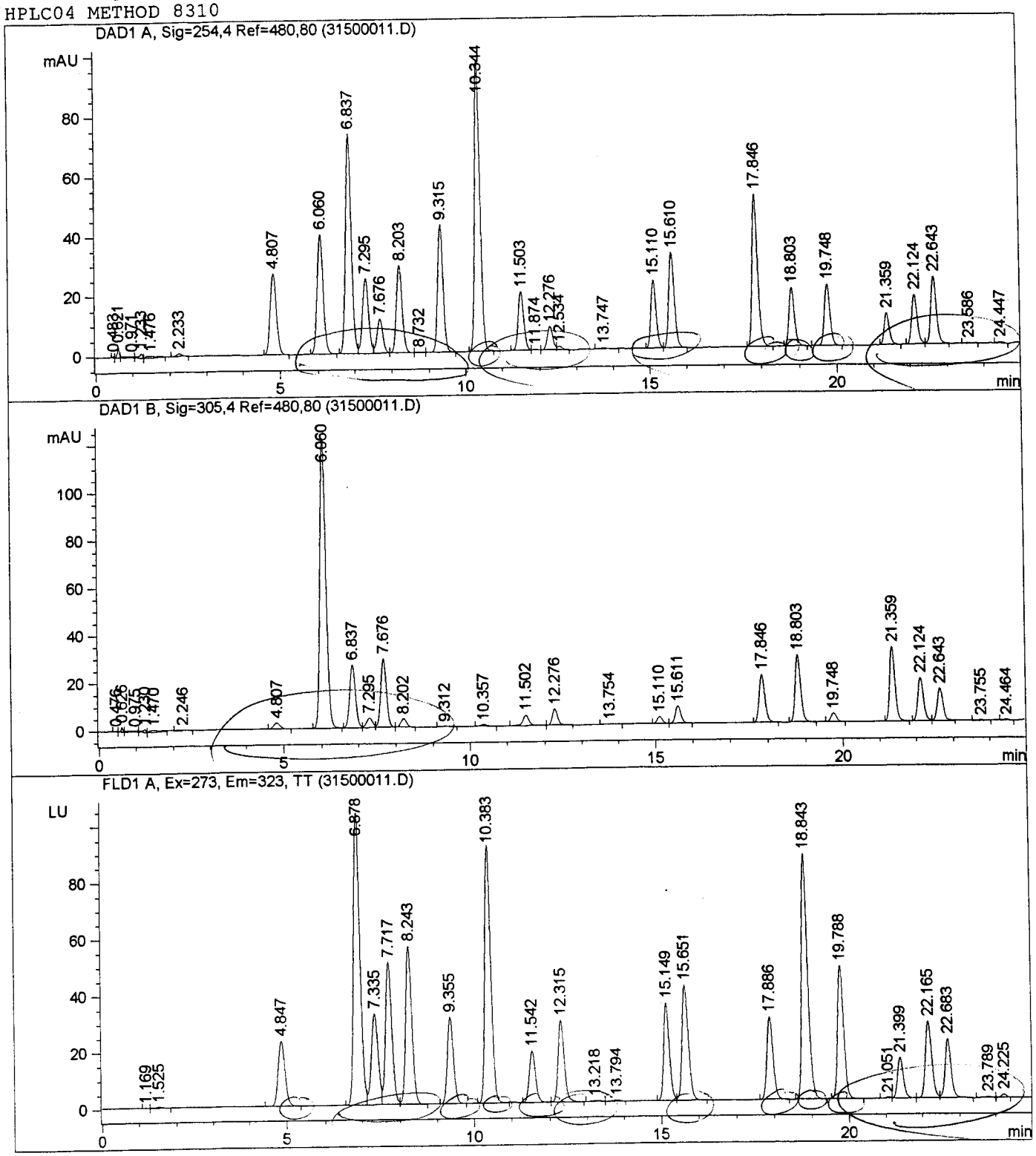
Injection Date : 11/11/2005 4:05:21 PM
Sample Name : ICAL,S1615
Acq. Operator : HPL
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\111105.S
Method : G:\HPLC4\METHODS\8310-279.M
Last changed : 10/6/2005 3:43:10 PM by HPL

Seq. Line : 11
Location : Vial 11
Inj : 1
Inj Volume : 10 µl

HPLC04 METHOD 8310



External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.807	BB	323.61371	75.58374	2.44599e4		Naphthalene
6.060	BP	460.62192	106.19647	4.89164e4		Acenaphthylene
6.837	BV	839.16504	116.96188	9.81503e4		1-Methylnaphthalene (UV)
7.295	VV	286.60989	85.17556	2.44122e4		2-Methylnaphthalene
7.676	VV	126.50960	205.77821	2.60329e4		Acenaphthene
8.203	VB	314.15155	15.70912	4935.04329		Fluorene
9.315	VP	446.43643	5.59248	2496.68672		Phenanthrene
10.344	PB	1008.37457	2.67826	2700.68981		Anthracene
11.503	BV	203.32158	24.36634	4954.20236		Fluoranthene
12.276	VV	82.54977	31.74842	2620.82491		Pyrene
15.110	BV	225.34038	11.55602	2604.03901		Benzo(a)anthracene
15.610	VB	330.47839	7.39324	2443.30457		Chrysene
17.846	BB	529.04700	9.20114	4867.83559		Benzo(b)fluoranthene
18.803	BB	201.21896	12.30054	2475.10275		Benzo(k)fluoranthene
19.748	BB	216.95140	12.56479	2725.94876		Benzo(a)pyrene
21.359	BP	105.96977	46.64399	4942.85308		Dibenz(a,h)anthracene
22.124	BV	176.37206	29.75989	5248.81290		Benzo(g,h,i)perylene
22.643	VB	236.87695	10.60205	2511.38140		Indeno(1,2,3-cd)pyrene

Totals : 2.67498e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.060	BB	1387.49243	34.98442	4.85406e4		Acenaphthylene
6.837	BV	303.13959	324.70876	9.84321e4		1-Methylnaphthalene (UV)

Totals : 1.46973e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.847	VB	292.85437	89.41991	2.61870e4		Naphthalene
6.878	BV	1275.37854	85.05315	1.08475e5		1-Methylnaphthalene (F)
7.335	VV	394.97131	65.66524	2.59359e4		2-Methylnaphthalene
7.717	VV	600.76691	46.68992	2.80498e4		Acenaphthene
8.243	VB	654.91974	7.81221	5116.37136		Fluorene
9.355	BB	350.65323	7.63570	2677.48265		Phenanthrene
10.383	BB	1033.24744	2.90960	3006.33583		Anthracene
11.542	BV	209.66335	25.13277	5269.41968		Fluoranthene
12.315	VB	334.40729	8.34700	2791.29599		Pyrene
15.149	BV	376.61612	7.46061	2809.78641		Benzo(a)anthracene
15.651	VB	461.88678	5.58732	2580.71093		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.886	BB	331.87186	15.58213	5171.26955		Benzo(b)fluoranthene
18.843	BB	982.09100	2.70441	2655.97343		Benzo(k)fluoranthene
19.788	BB	536.22577	5.41819	2905.37327		Benzo(a)pyrene
21.399	VP	158.06680	32.34222	5112.23135		Dibenz(a,h)anthracene
22.165	VV	316.20016	17.25346	5455.54666		Benzo(g,h,i)perylene
22.683	VB	243.49887	10.94867	2665.98932		Indeno(1,2,3-cd)pyrene
Totals :				2.36865e5		

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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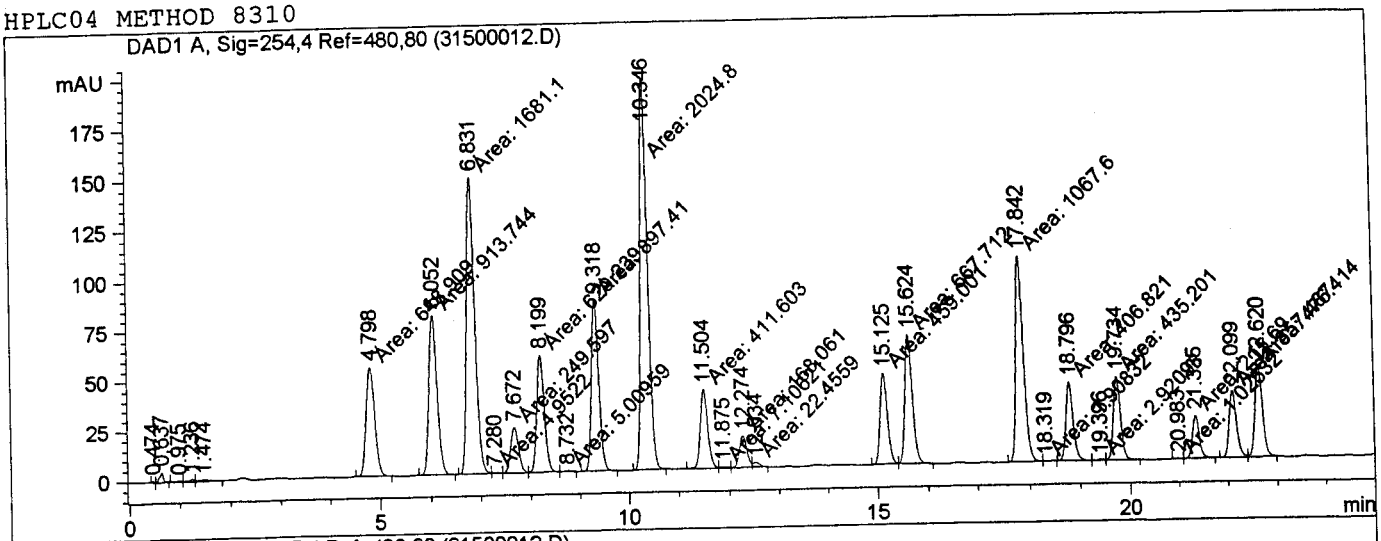
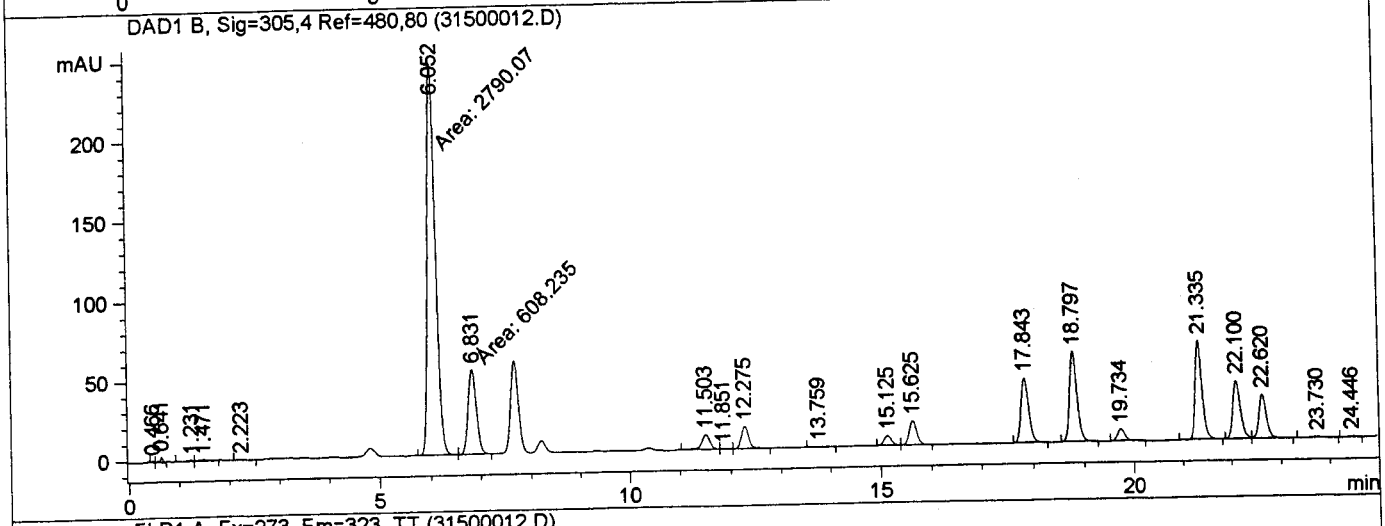
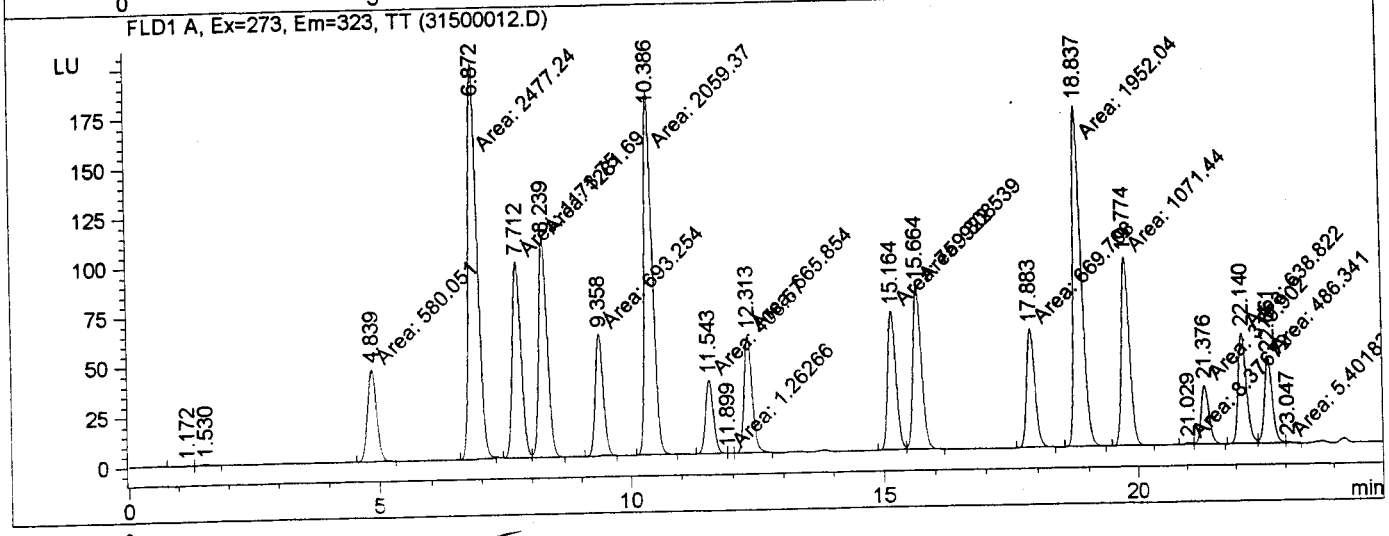
Injection Date	: 11/11/2005 4:36:54 PM	Seq. Line	: 12
Sample Name	: ICAL,S1614	Location	: Vial 12
Acq. Operator	: HPL	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 11/14/2005 4:04:39 PM by HPL (modified after loading)		

HPLC04 METHOD 8310







14 NOV 2005

External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:04:38 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.798	FM	648.90906	77.07999	5.00179e4		Naphthalene
6.052	FM	913.74396	109.19028	9.97720e4		Acenaphthylene
6.831	MF	1681.10107	118.97180	2.00004e5		1-Methylnaphthalene (UV)
7.280	MF	4.95220	79.34361	392.92557		2-Methylnaphthalene
7.672	MF	249.59686	200.00745	4.99212e4		Acenaphthene
8.199	MF	629.23938	15.90162	1.00059e4		Fluorene
9.318	MM	897.40991	5.57725	5005.08079		Phenanthrene
10.346	MF	2024.80078	2.46988	5001.02354		Anthracene
11.504	MF	411.60339	24.33756	1.00174e4		Fluoranthene
12.274	MF	168.06082	29.83443	5013.99819		Pyrene
15.125	MF	459.00107	10.92545	5014.79131		Benzo(a)anthracene
15.624	FM	667.71228	7.50261	5009.58728		Chrysene
17.842	MF	1067.59534	9.37832	1.00122e4		Benzo(b)fluoranthene
18.796	MF	406.82126	12.31843	5011.39735		Benzo(k)fluoranthene
19.734	FM	435.20081	11.51003	5009.17240		Benzo(a)pyrene
21.335	FM	215.69028	46.45435	1.00198e4		Dibenz(a,h)anthracene
22.099	MF	357.48672	28.01144	1.00137e4		Benzo(g,h,i)perylene
22.620	FM	476.41440	10.47141	4988.73112		Indeno(1,2,3-cd)pyrene
Totals :				4.90230e5		

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.052	MF	2790.07104	35.87768	1.00101e5		Acenaphthylene
6.831	MF	608.23541	329.06707	2.00150e5		1-Methylnaphthalene (UV)
Totals :				3.00252e5		

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.839	MM	580.05115	86.06663	4.99230e4		Naphthalene
6.872	MF	2477.23877	78.22578	1.93784e5		1-Methylnaphthalene (F)
7.335		-	-	-		2-Methylnaphthalene
7.712	MF	1173.74512	41.75998	4.90156e4		Acenaphthene
8.239	FM	1281.69031	7.66844	9828.55957		Fluorene
9.358	MM	693.25409	7.21124	4999.22417		Phenanthrene
10.386	MF	2059.37134	2.42912	5002.45295		Anthracene
11.543	MF	408.57028	24.49724	1.00088e4		Fluoranthene
12.313	FM	665.85370	7.52816	5012.65617		Pyrene
15.164	MF	759.30841	6.59405	5006.91434		Benzo(a)anthracene
15.664	FM	922.53937	5.41979	4999.96781		Chrysene

Data File G:\HPLC4\DATA\31500012.D

Sample Name: ICAL,S1614

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.883	MF	669.70776	14.95406	1.00148e4		Benzo(b)fluoranthene
18.837	MF	1952.04028	2.55869	4994.66919		Benzo(k)fluoranthene
19.774	FM	1071.43713	4.66813	5001.60824		Benzo(a)pyrene
21.376	FM	319.90201	31.32159	1.00198e4		Dibenz(a,h)anthracene
22.140	MF	638.82190	15.67791	1.00154e4		Benzo(g,h,i)perylene
22.661	MF	486.34088	10.29785	5008.26668		Indeno(1,2,3-cd)pyrene
Totals :				3.82636e5		

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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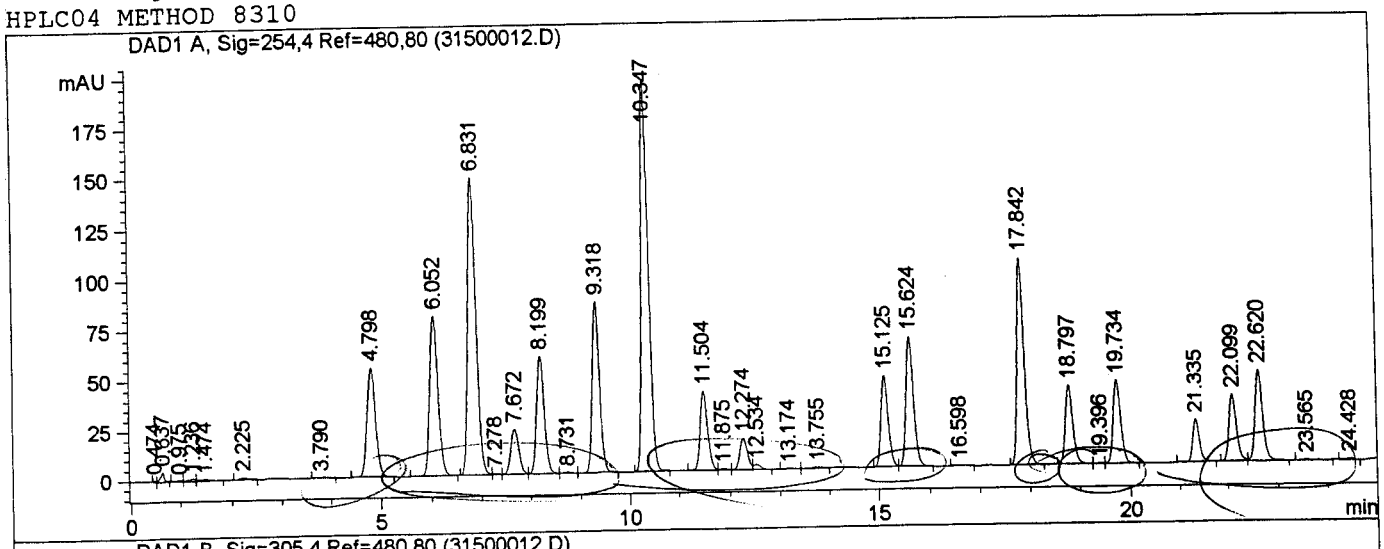
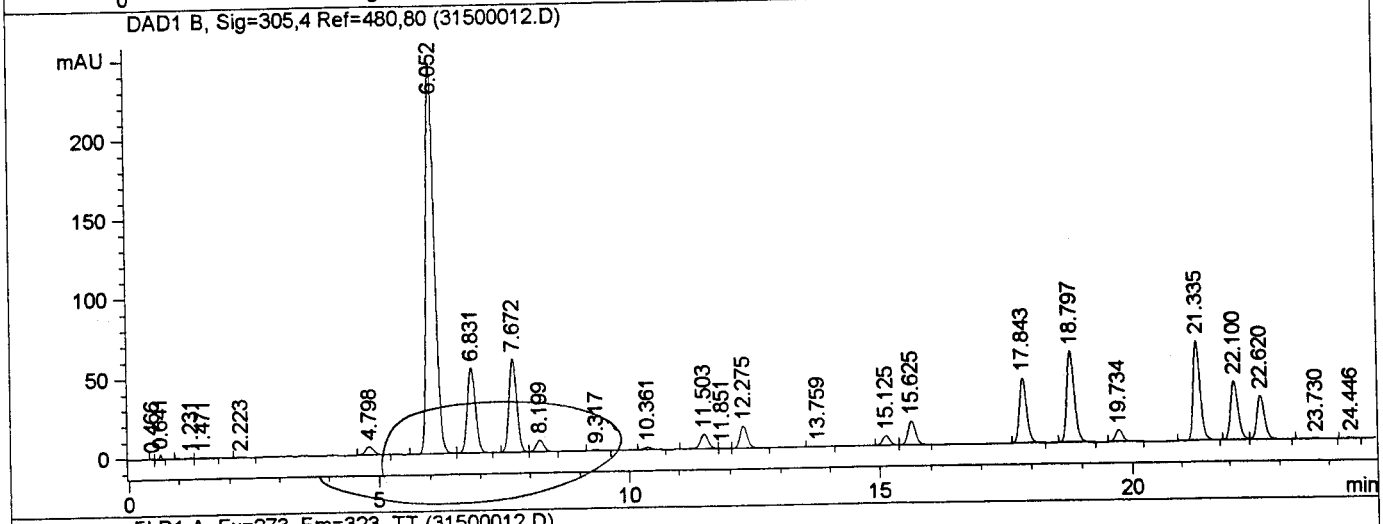
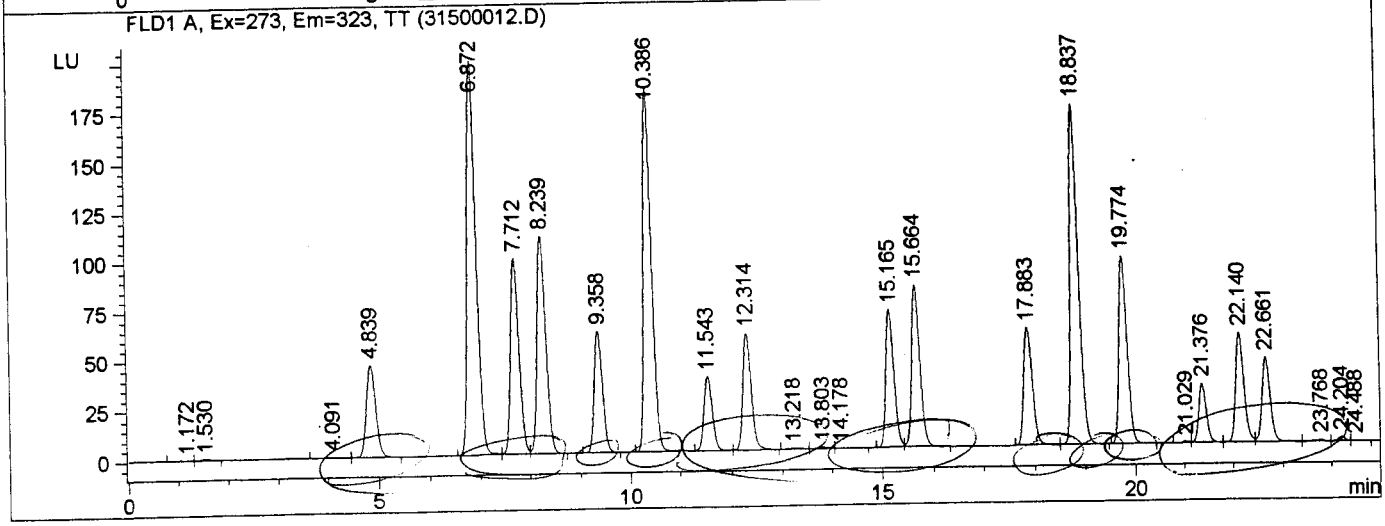
Injection Date : 11/11/2005 4:36:54 PM
Sample Name : ICAL,S1614
Acq. Operator : HPL
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\111105.S
Method : G:\HPLC4\METHODS\8310-279.M
Last changed : 10/6/2005 3:43:10 PM by HPL

Seq. Line : 12
Location : Vial 12
Inj : 1
Inj Volume : 10 µl

HPLC04 METHOD 8310







External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.798	BB	647.92590	75.77620	4.90974e4		Naphthalene
6.052	BP	914.91376	106.68185	9.76047e4		Acenaphthylene
6.831	BV	1681.13379	117.41358	1.97388e5		1-Methylnaphthalene (UV)
7.278	VV	5.24963	56.31698	295.64317		2-Methylnaphthalene
7.672	VV	250.17746	206.34568	5.16230e4		Acenaphthene
8.199	VV	630.32672	15.74564	9924.89767		Fluorene
9.318	VP	898.17737	5.62171	5049.28914		Phenanthrene
10.347	BB	2027.48340	2.68606	5445.93602		Anthracene
11.504	BV	416.99786	24.41423	1.01807e4		Fluoranthene
12.274	VV	170.79819	31.71372	5416.64596		Pyrene
15.125	BV	458.60211	11.56211	5302.41022		Benzo(a)anthracene
15.624	VB	667.24249	7.40838	4943.18470		Chrysene
17.842	BB	1067.14661	9.21482	9833.56607		Benzo(b)fluoranthene
18.797	BB	406.67978	12.30402	5003.79774		Benzo(k)fluoranthene
19.734	VB	434.84232	12.57220	5466.92541		Benzo(a)pyrene
21.335	BB	219.65565	46.55887	1.02269e4		Dibenz(a,h)anthracene
22.099	BV	363.46048	29.77688	1.08227e4		Benzo(g,h,i)perylene
22.620	VB	493.74603	10.61532	5241.27246		Indeno(1,2,3-cd)pyrene

Totals : 4.88867e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.052	BV	2789.97314	35.08817	9.78950e4		Acenaphthylene
6.831	VB	608.50012	325.85032	1.98280e5		1-Methylnaphthalene (UV)

Totals : 2.96175e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.839	VB	581.45532	89.82798	5.22310e4		Naphthalene
6.872	BV	2484.81372	85.61369	2.12734e5		1-Methylnaphthalene (F)
7.399		-	-	-		2-Methylnaphthalene
7.712	VV	1176.09302	46.86327	5.51156e4		Acenaphthene
8.239	VB	1287.53809	7.85043	1.01077e4		Fluorene
9.358	BB	701.78259	7.67948	5389.32199		Phenanthrene
10.386	BB	2072.21411	2.92260	6056.25380		Anthracene
11.543	BV	421.73749	25.17879	1.06188e4		Fluoranthene
12.314	VB	678.73724	8.35203	5668.83629		Pyrene
15.165	BV	759.86157	7.48411	5686.88802		Benzo(a)anthracene
15.664	VB	925.06207	5.61682	5195.91129		Chrysene

Data File G:\HPLC4\DATA\31500012.D

Sample Name: ICAL,S1614

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.883	BV	670.50836	15.63304	1.04821e4		Benzo(b)fluoranthene
18.837	VB	1956.50098	2.71374	5309.43490		Benzo(k)fluoranthene
19.774	BB	1077.07507	5.43915	5858.37331		Benzo(a)pyrene
21.376	VV	323.55270	32.33177	1.04610e4		Dibenz(a,h)anthracene
22.140	VV	640.48981	17.28431	1.10704e4		Benzo(g,h,i)perylene
22.661	VV	493.75449	10.96018	5411.63807		Indeno(1,2,3-cd)pyrene
Totals :				4.17397e5		

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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*** End of Report ***

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : HPLC04
Seqnum : 295454249015
Calnum : 295454249001
Standards: S1859

Run Name :
Filename : 31500015
Caldate : 11-NOV-2005

Injected : 11-NOV-2005 18:11
Caltype :

Analyte	Ch	SpkAmt	QuantAmt	Units	%D	Max	Flags
Naphthalene	1	5000.000	5429.003	ug/L	9	15	
Acenaphthylene	1	10000.00	11445.11	ug/L	14	15	
2-Methylnaphthalene	1	20000.00	19958.18	ug/L	0	15	
Acenaphthene	1	5000.000	5730.702	ug/L	15	15	
Fluorene	1	1000.000	1083.110	ug/L	8	15	
Phenanthrene	1	500.0000	527.0522	ug/L	5	15	
Anthracene	1	500.0000	541.6345	ug/L	8	15	
Fluoranthene	1	1000.000	1094.786	ug/L	9	15	
Pyrene	1	500.0000	544.7105	ug/L	9	15	
Benzo(a)anthracene	1	500.0000	539.7436	ug/L	8	15	
Chrysene	1	500.0000	541.2731	ug/L	8	15	
Benzo(b)fluoranthene	1	1000.000	1079.271	ug/L	8	15	
Benzo(k)fluoranthene	1	500.0000	541.4310	ug/L	8	15	
Benzo(a)pyrene	1	500.0000	528.6504	ug/L	6	15	
Dibenz(a,h)anthracene	1	1000.000	1083.391	ug/L	8	15	
Benzo(g,h,i)perylene	1	1000.000	1068.297	ug/L	7	15	
Indeno(1,2,3-cd)pyrene	1	500.0000	543.1120	ug/L	9	15	
Acenaphthylene	2	10000.00	10909.50	ug/L	9	15	
Naphthalene	3	5000.000	5415.454	ug/L	8	15	
2-Methylnaphthalene	3	20000.00	19883.89	ug/L	-1	15	
Acenaphthene	3	5000.000	5651.912	ug/L	13	15	
Fluorene	3	1000.000	1079.813	ug/L	8	15	
Phenanthrene	3	500.0000	519.7808	ug/L	4	15	
Anthracene	3	500.0000	542.4378	ug/L	8	15	
Fluoranthene	3	1000.000	1101.059	ug/L	10	15	
Pyrene	3	500.0000	543.9273	ug/L	9	15	
Benzo(a)anthracene	3	500.0000	536.5568	ug/L	7	15	
Chrysene	3	500.0000	537.3051	ug/L	7	15	
Benzo(b)fluoranthene	3	1000.000	1078.965	ug/L	8	15	
Benzo(k)fluoranthene	3	500.0000	544.3503	ug/L	9	15	
Benzo(a)pyrene	3	500.0000	526.8323	ug/L	5	15	
Dibenz(a,h)anthracene	3	1000.000	1078.278	ug/L	8	15	
Benzo(g,h,i)perylene	3	1000.000	1049.460	ug/L	5	15	
Indeno(1,2,3-cd)pyrene	3	500.0000	542.2205	ug/L	8	15	

ICV SATISFIES SOP. CJM

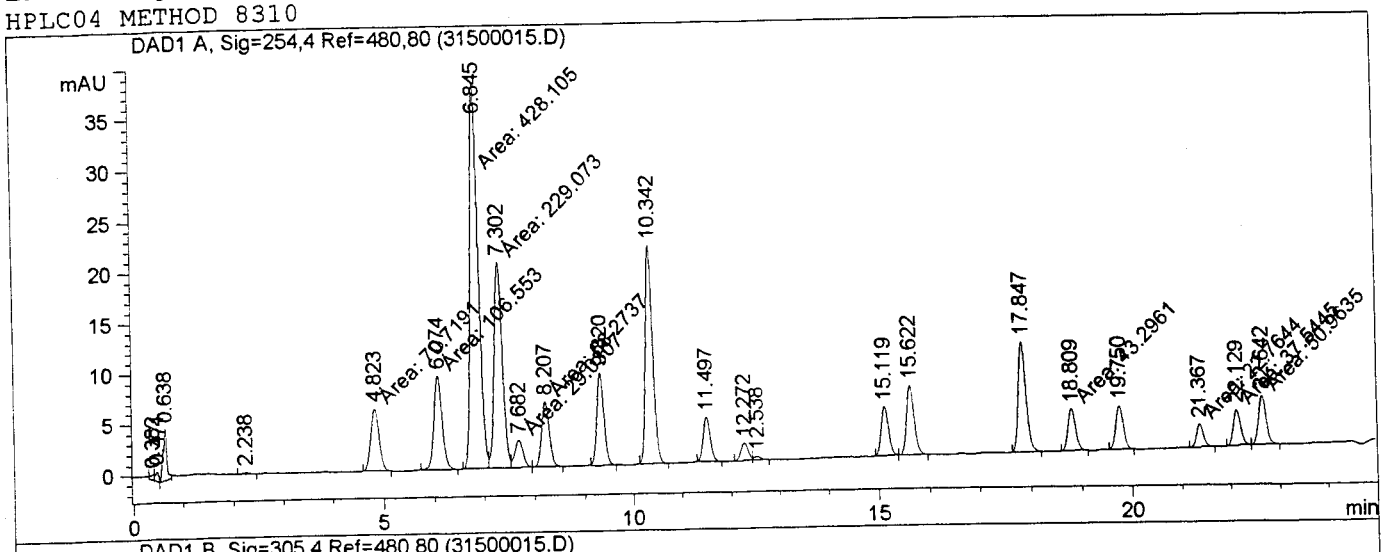
11/15/05

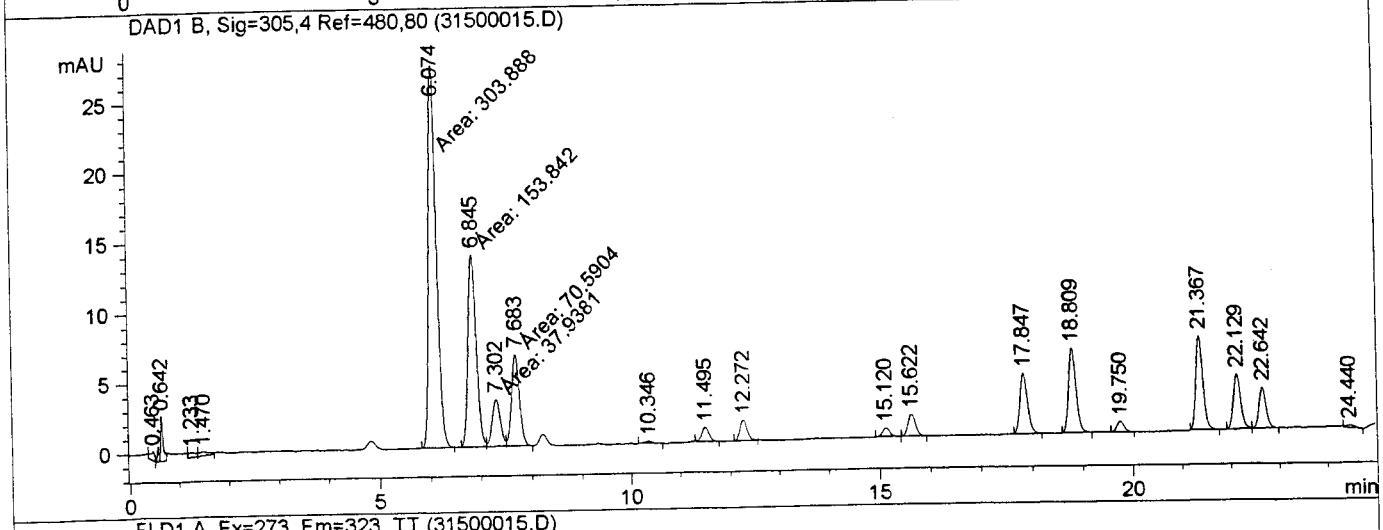
Data File G:\HPLC4\DATA\31500015.D

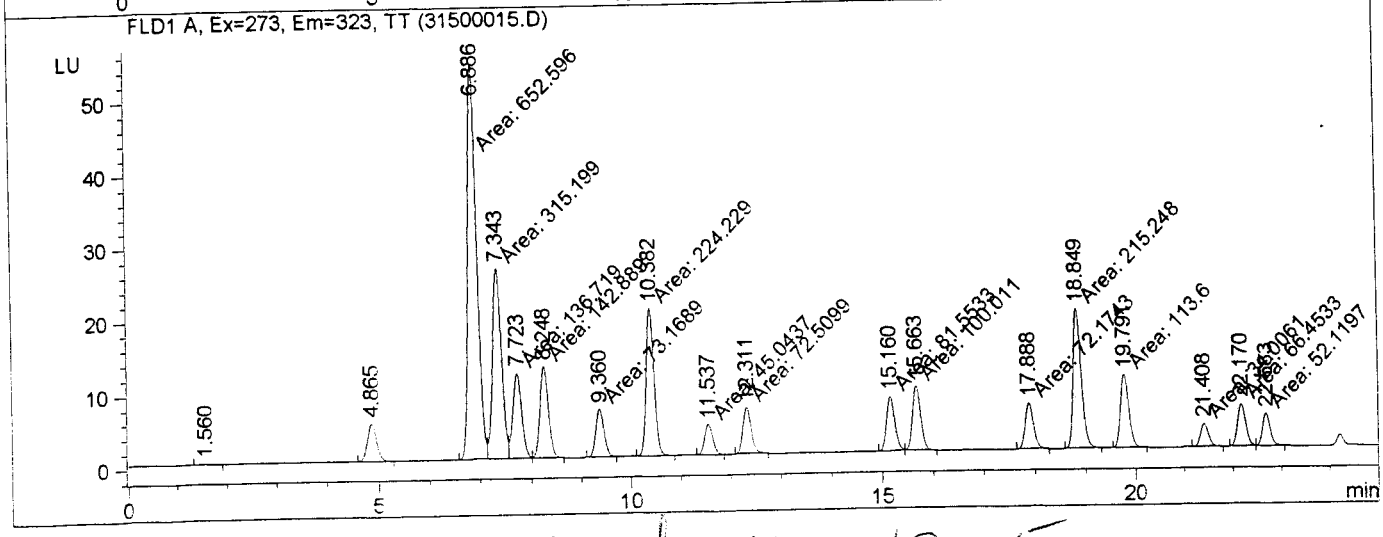
Sample Name: ~~IVC~~, S1859
ICU
14 NOV 2005

Injection Date : 11/11/2005 6:11:49 PM
Sample Name : ~~IVC~~, S1859
Acq. Operator : HPL ICU
Acq. Instrument : HPLC 4
Acq. Method : G:\HPLC4\METHODS\8310-279.M
Last changed : 10/6/2005 3:43:10 PM by HPL
Analysis Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL
HPLC04 METHOD 8310

Seq. Line : 15
Location : Vial 15
Inj : 1
Inj Volume : 10 µl







ICU SATISFIES SOP. 14 NOV 2005

HPLC 4 11/14/2005 4:28:38 PM HPL

External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.823	MM	70.71906	76.76860	5429.00305		Naphthalene
6.074	FM	106.55293	107.41243	1.14451e4		Acenaphthylene
6.845	MF	428.10513	118.51450	5.07367e4		1-Methylnaphthalene (UV)
7.302	FM	229.07306	87.12583	1.99582e4		2-Methylnaphthalene
7.682	FM	29.03069	197.40151	5730.70197		Acenaphthene
8.207	FM	68.27369	15.86423	1083.10978		Fluorene
9.320	BB	94.70956	5.56493	527.05223		Phenanthrene
10.342	BB	220.54137	2.45593	541.63448		Anthracene
11.497	BB	44.80906	24.43225	1094.78619		Fluoranthene
12.272	BV	18.00157	30.25906	544.71057		Pyrene
15.119	BV	48.89842	11.03806	539.74359		Benzo(a)anthracene
15.622	VB	71.82996	7.53548	541.27309		Chrysene
17.847	BB	114.57022	9.42017	1079.27109		Benzo(b)fluoranthene
18.809	MM	43.29613	12.50530	541.43109		Benzo(k)fluoranthene
19.750	BB	45.29744	11.67065	528.65038		Benzo(a)pyrene
21.367	MM	22.76437	47.59153	1083.39098		Dibenz(a,h)anthracene
22.129	MF	37.54449	28.45416	1068.29690		Benzo(g,h,i)perylene
22.642	FM	50.96354	10.65687	543.11193		Indeno(1,2,3-cd)pyrene

Totals : 1.03016e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.074	MM	303.88770	35.89979	1.09095e4		Acenaphthylene
6.845	MF	153.84215	328.45864	5.05308e4		1-Methylnaphthalene (UV)

Totals : 6.14403e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.865	BB	63.89994	84.74897	5415.45399		Naphthalene
6.886	MF	652.59564	77.70950	5.07129e4		1-Methylnaphthalene (F)
7.343	MF	315.19867	63.08369	1.98839e4		2-Methylnaphthalene
7.723	FM	136.71896	41.33963	5651.91172		Acenaphthene
8.248	FM	142.88892	7.55701	1079.81251		Fluorene
9.360	MM	73.16887	7.10385	519.78082		Phenanthrene
10.382	MM	224.22946	2.41912	542.43779		Anthracene
11.537	MM	45.04365	24.44426	1101.05871		Fluoranthene
12.311	MM	72.50991	7.50142	543.92732		Pyrene
15.160	MF	81.55329	6.57922	536.55680		Benzo(a)anthracene
15.663	FM	100.01083	5.37247	537.30512		Chrysene

Data File G:\HPLC4\DATA\31500015.D

Sample Name: ~~IVC~~, S1859
ICV

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.888	MM	72.17432	14.94944	1078.96559		Benzo(b)fluoranthene
18.849	MM	215.24835	2.52894	544.35032		Benzo(k)fluoranthene
19.791	MM	113.59962	4.63762	526.83233		Benzo(a)pyrene
21.408	FM	34.00614	31.70833	1078.27800		Dibenz(a,h)anthracene
22.170	MF	66.45330	15.79245	1049.46037		Benzo(g,h,i)perylene
22.683	MF	52.11966	10.40338	542.22048		Indeno(1,2,3-cd)pyrene
Totals :				9.13451e4		

Results obtained with enhanced integrator!

*** End of Report ***

Data File G:\HPLC4\DATA\31500015.D

Sample Name: ~~IVC~~, S1859

ICU
14NOV2005

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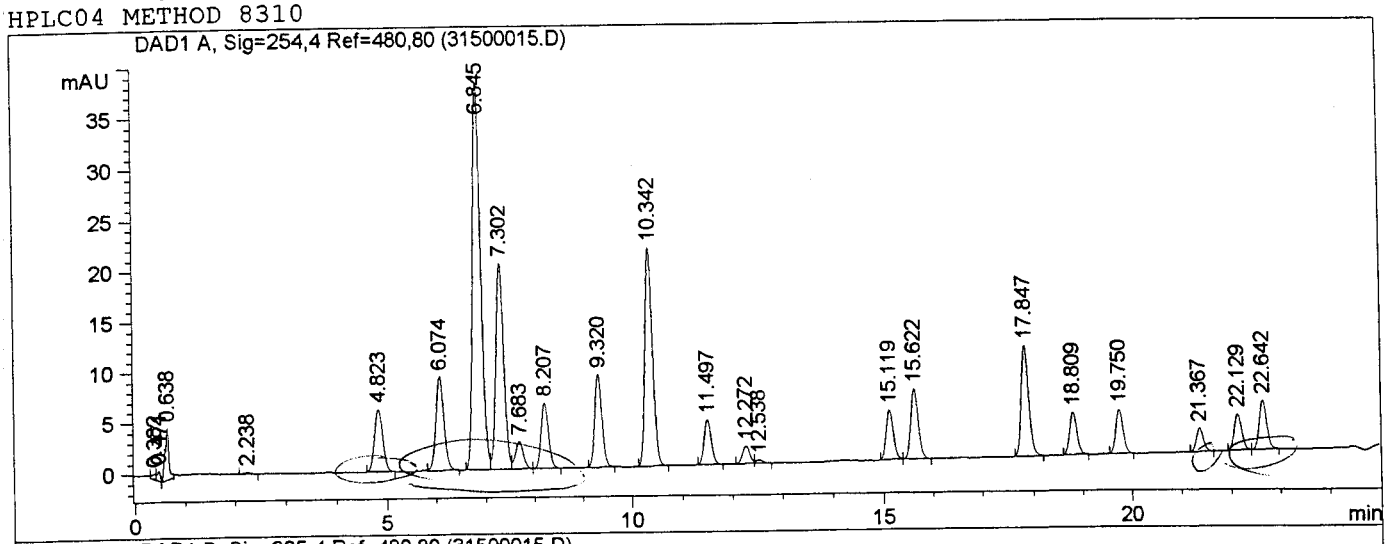
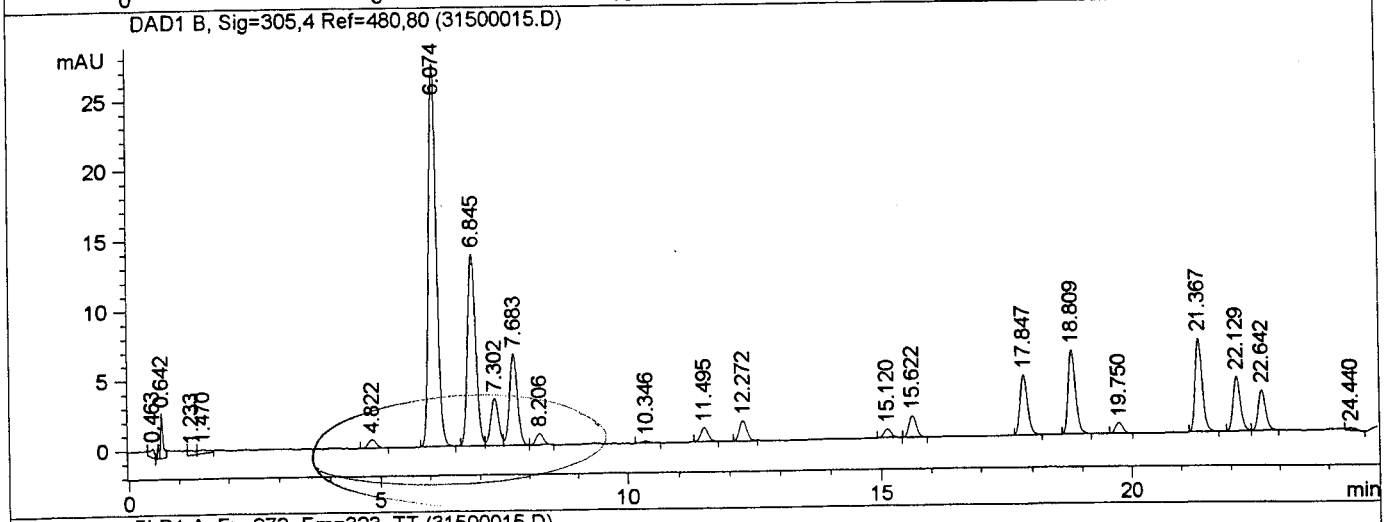
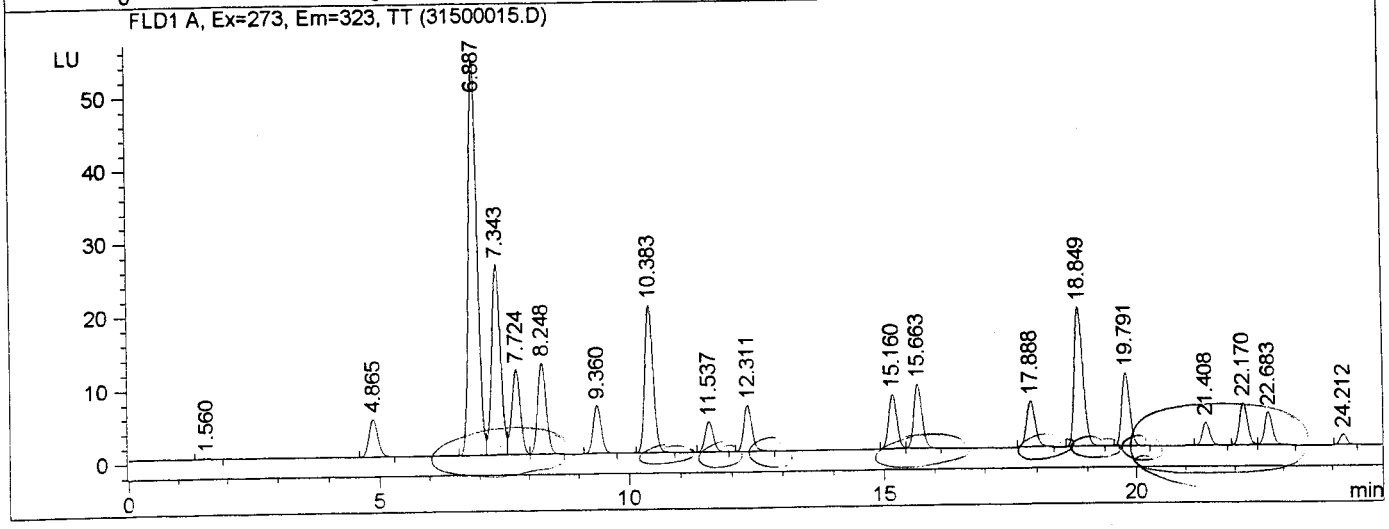
Injection Date : 11/11/2005 6:11:49 PM
Sample Name : ~~IVC~~, S1859
Acq. Operator : HPL ICU
Acq. Instrument : HPLC 4
Acq. Method : G:\HPLC4\METHODS\8310-279.M
Last changed : 10/6/2005 3:43:10 PM by HPL
Analysis Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL

Seq. Line : 15
Location : Vial 15
Inj : 1
Inj Volume : 10 µl

HPLC04 METHOD 8310







ICV

External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.823	BB	71.20418	76.77098	5466.41477		Naphthalene
6.074	BP	105.77290	107.39759	1.13598e4		Acenaphthylene
6.845	BV	427.91833	118.51423	5.07144e4		1-Methylnaphthalene (UV)
7.302	VV	229.16971	87.12590	1.99666e4		2-Methylnaphthalene
7.683	VV	29.39861	197.43842	5804.41603		Acenaphthene
8.207	VB	68.62818	15.86445	1088.74840		Fluorene
9.320	BB	94.70956	5.56493	527.05223		Phenanthrene
10.342	BB	220.54137	2.45593	541.63448		Anthracene
11.497	BB	44.80906	24.43225	1094.78619		Fluoranthene
12.272	BV	18.00157	30.25906	544.71057		Pyrene
15.119	BV	48.89842	11.03806	539.74359		Benzo(a)anthracene
15.622	VB	71.82996	7.53548	541.27309		Chrysene
17.847	BB	114.57022	9.42017	1079.27109		Benzo(b)fluoranthene
18.809	BB	42.82232	12.50761	535.60502		Benzo(k)fluoranthene
19.750	BB	45.29744	11.67065	528.65038		Benzo(a)pyrene
21.367	BP	22.40412	47.61197	1066.70412		Dibenz(a,h)anthracene
22.129	BV	37.21112	28.45829	1058.96487		Benzo(g,h,i)perylene
22.642	VB	50.79019	10.65746	541.29424		Indeno(1,2,3-cd)pyrene
Totals :				1.03000e5		

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.074	BB	304.49255	35.89974	1.09312e4		Acenaphthylene
6.845	BV	154.18639	328.46046	5.06441e4		1-Methylnaphthalene (UV)
Totals :				6.15753e4		

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.865	BB	63.89994	84.74897	5415.45399		Naphthalene
6.887	BV	652.01135	77.70887	5.06671e4		1-Methylnaphthalene (F)
7.343	VV	315.16345	63.08367	1.98817e4		2-Methylnaphthalene
7.724	VV	137.49896	41.34233	5684.52768		Acenaphthene
8.248	VB	143.32822	7.55739	1083.18740		Fluorene
9.360	BB	73.95461	7.10513	525.45697		Phenanthrene
10.383	BB	225.40056	2.41918	545.28395		Anthracene
11.537	BB	45.91750	24.44539	1122.47141		Fluoranthene
12.311	BB	73.37619	7.50177	550.45165		Pyrene
15.160	BV	81.46244	6.57920	535.95756		Benzo(a)anthracene
15.663	VB	100.24127	5.37259	538.55537		Chrysene

Data File G:\HPLC4\DATA\31500015.D

Sample Name: ~~IVC~~,S1859
ICV

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.888	BB	72.39547	14.94945	1082.27273		Benzo(b)fluoranthene
18.849	BB	215.84348	2.52903	545.87525		Benzo(k)fluoranthene
19.791	BB	114.32867	4.63784	530.23827		Benzo(a)pyrene
21.408	VB	34.04706	31.70781	1079.55781		Dibenz(a,h)anthracene
22.170	BV	66.46594	15.79242	1049.65840		Benzo(g,h,i)perylene
22.683	VB	52.61345	10.40227	547.29920		Indeno(1,2,3-cd)pyrene

Totals : 9.13850e4

Results obtained with enhanced integrator!

*** End of Report ***

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185586 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: L IDF : 1.0
Seqnum : 296115859002 File : 08000002 Time : 21-MAR-2006 11:30
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2256

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0143	2500	2731	ug/L	9	15	
Acenaphthylene	1	0.0093	0.0097	5000	5073	ug/L	1	15	
Acenaphthene	1	0.0050	0.0055	2500	2658	ug/L	6	15	
Fluorene	1	0.0629	0.0658	500.0	520.2	ug/L	4	15	
Phenanthrene	1	0.1797	0.1885	250.0	261.6	ug/L	5	15	
Anthracene	1	0.4065	0.4174	250.0	254.4	ug/L	2	15	
Fluoranthene	1	0.0408	0.0423	500.0	518.9	ug/L	4	15	
Pyrene	1	0.0329	0.0330	250.0	254.5	ug/L	2	15	
Benzo(a)anthracene	1	0.0901	0.0942	250.0	263.2	ug/L	5	15	
Chrysene	1	0.1322	0.1382	250.0	261.8	ug/L	5	15	
Benzo(b)fluoranthene	1	0.1049	0.1109	500.0	525.0	ug/L	5	15	
Benzo(k)fluoranthene	1	0.0796	0.0836	250.0	266.0	ug/L	6	15	
Benzo(a)pyrene	1	0.0842	0.0895	250.0	265.4	ug/L	6	15	
Dibenz(a,h)anthracene	1	0.0205	0.0212	500.0	520.8	ug/L	4	15	
Benzo(g,h,i)perylene	1	0.0349	0.0354	500.0	512.9	ug/L	3	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.0996	250.0	269.9	ug/L	8	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0083	50000	49380	ug/L	-1	15	
Acenaphthylene	2	0.0277	0.0295	5000	5300	ug/L	6	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	48700	ug/L	-3	15	
Naphthalene	3	0.0118	0.0120	2500	2482	ug/L	-1	15	
Acenaphthene	3	0.0242	0.0245	2500	2492	ug/L	0	15	
Fluorene	3	0.1330	0.1352	500.0	501.5	ug/L	0	15	
Phenanthrene	3	0.1408	0.1435	250.0	250.3	ug/L	0	15	
Anthracene	3	0.4129	0.4135	250.0	248.7	ug/L	-1	15	
Fluoranthene	3	0.0409	0.0407	500.0	496.6	ug/L	-1	15	
Pyrene	3	0.1339	0.1317	250.0	245.7	ug/L	-2	15	
Benzo(a)anthracene	3	0.1518	0.1534	250.0	251.6	ug/L	1	15	
Chrysene	3	0.1854	0.1906	250.0	253.2	ug/L	1	15	
Benzo(b)fluoranthene	3	0.0668	0.0672	500.0	501.8	ug/L	0	15	
Benzo(k)fluoranthene	3	0.3937	0.4049	250.0	252.2	ug/L	1	15	
Benzo(a)pyrene	3	0.2148	0.2169	250.0	249.4	ug/L	0	15	
Dibenz(a,h)anthracene	3	0.0311	0.0314	500.0	505.4	ug/L	1	15	
Benzo(g,h,i)perylene	3	0.0629	0.0599	500.0	477.8	ug/L	-4	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.0944	250.0	248.9	ug/L	0	15	
1-Methylnaphthalene (F)	3	0.0131	0.0122	50000	47280	ug/L	-5	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185586 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: M IDF : 1.0
Seqnum : 296115859016 File : 08000016 Time : 21-MAR-2006 18:53
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2255

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0137	5000	5268	ug/L	5	15	
Acenaphthylene	1	0.0093	0.0097	10000	10380	ug/L	4	15	
Acenaphthene	1	0.0050	0.0053	5000	5217	ug/L	4	15	
Fluorene	1	0.0629	0.0654	1000	1037	ug/L	4	15	
Phenanthrene	1	0.1797	0.1864	500.0	518.7	ug/L	4	15	
Anthracene	1	0.4065	0.4069	500.0	499.4	ug/L	0	15	
Fluoranthene	1	0.0408	0.0417	1000	1018	ug/L	2	15	
Pyrene	1	0.0329	0.0324	500.0	490.6	ug/L	-2	15	
Benzo(a)anthracene	1	0.0901	0.0934	500.0	515.6	ug/L	3	15	
Chrysene	1	0.1322	0.1406	500.0	529.7	ug/L	6	15	
Benzo(b)fluoranthene	1	0.1049	0.1105	1000	1041	ug/L	4	15	
Benzo(k)fluoranthene	1	0.0796	0.0838	500.0	524.2	ug/L	5	15	
Benzo(a)pyrene	1	0.0842	0.0887	500.0	517.5	ug/L	4	15	
Dibenz(a,h)anthracene	1	0.0205	0.0216	1000	1028	ug/L	3	15	
Benzo(g,h,i)perylene	1	0.0349	0.0347	1000	988.4	ug/L	-1	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.0970	500.0	517.3	ug/L	3	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0082	50000	48790	ug/L	-2	15	
Acenaphthylene	2	0.0277	0.0294	10000	10540	ug/L	5	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0029	50000	48340	ug/L	-3	15	
Naphthalene	3	0.0118	0.0116	5000	4917	ug/L	-2	15	
Acenaphthene	3	0.0242	0.0235	5000	4858	ug/L	-3	15	
Fluorene	3	0.1330	0.1328	1000	1002	ug/L	0	15	
Phenanthrene	3	0.1408	0.1398	500.0	496.3	ug/L	-1	15	
Anthracene	3	0.4129	0.4067	500.0	491.7	ug/L	-2	15	
Fluoranthene	3	0.0409	0.0404	1000	988.0	ug/L	-1	15	
Pyrene	3	0.1339	0.1274	500.0	477.5	ug/L	-4	15	
Benzo(a)anthracene	3	0.1518	0.1495	500.0	491.8	ug/L	-2	15	
Chrysene	3	0.1854	0.1872	500.0	502.5	ug/L	0	15	
Benzo(b)fluoranthene	3	0.0668	0.0669	1000	1001	ug/L	0	15	
Benzo(k)fluoranthene	3	0.3937	0.3999	500.0	505.1	ug/L	1	15	
Benzo(a)pyrene	3	0.2148	0.2147	500.0	497.5	ug/L	0	15	
Dibenz(a,h)anthracene	3	0.0311	0.0314	1000	997.6	ug/L	0	15	
Benzo(g,h,i)perylene	3	0.0629	0.0603	1000	952.8	ug/L	-5	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.0949	500.0	494.0	ug/L	-1	15	
1-Methylnaphthalene (F)	3	0.0131	0.0118	50000	45890	ug/L	-8	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185586 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: H IDF : 1.0
Seqnum : 296115859028 File : 08000028 Time : 22-MAR-2006 01:12
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2954

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0130	10000	9988	ug/L	0	15	
Acenaphthylene	1	0.0093	0.0092	20000	19850	ug/L	-1	15	
Acenaphthene	1	0.0050	0.0050	10000	10020	ug/L	0	15	
Fluorene	1	0.0629	0.0621	2000	1971	ug/L	-1	15	
Phenanthrene	1	0.1797	0.1766	1000	984.1	ug/L	-2	15	
Anthracene	1	0.4065	0.3872	1000	953.6	ug/L	-5	15	
Fluoranthene	1	0.0408	0.0400	2000	1953	ug/L	-2	15	
Pyrene	1	0.0329	0.0315	1000	948.0	ug/L	-5	15	
Benzo(a)anthracene	1	0.0901	0.0898	1000	986.1	ug/L	-1	15	
Chrysene	1	0.1322	0.1332	1000	1002	ug/L	0	15	
Benzo(b)fluoranthene	1	0.1049	0.1053	2000	1980	ug/L	-1	15	
Benzo(k)fluoranthene	1	0.0796	0.0813	1000	1009	ug/L	1	15	
Benzo(a)pyrene	1	0.0842	0.0828	1000	959.8	ug/L	-4	15	
Dibenz(a,h)anthracene	1	0.0205	0.0213	2000	2001	ug/L	0	15	
Benzo(g,h,i)perylene	1	0.0349	0.0334	2000	1888	ug/L	-6	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.0941	1000	995.1	ug/L	0	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0083	50000	49460	ug/L	-1	15	
Acenaphthylene	2	0.0277	0.0278	20000	19970	ug/L	0	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	48940	ug/L	-2	15	
Naphthalene	3	0.0118	0.0108	10000	9218	ug/L	-8	15	
Acenaphthene	3	0.0242	0.0224	10000	9295	ug/L	-7	15	
Fluorene	3	0.1330	0.1266	2000	1927	ug/L	-4	15	
Phenanthrene	3	0.1408	0.1309	1000	937.0	ug/L	-6	15	
Anthracene	3	0.4129	0.3860	1000	935.5	ug/L	-6	15	
Fluoranthene	3	0.0409	0.0381	2000	1862	ug/L	-7	15	
Pyrene	3	0.1339	0.1182	1000	888.3	ug/L	-11	15	
Benzo(a)anthracene	3	0.1518	0.1408	1000	927.5	ug/L	-7	15	
Chrysene	3	0.1854	0.1747	1000	942.4	ug/L	-6	15	
Benzo(b)fluoranthene	3	0.0668	0.0630	2000	1885	ug/L	-6	15	
Benzo(k)fluoranthene	3	0.3937	0.3846	1000	978.3	ug/L	-2	15	
Benzo(a)pyrene	3	0.2148	0.1965	1000	914.1	ug/L	-9	15	
Dibenz(a,h)anthracene	3	0.0311	0.0304	2000	1914	ug/L	-4	15	
Benzo(g,h,i)perylene	3	0.0629	0.0560	2000	1763	ug/L	-12	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.0916	1000	948.1	ug/L	-5	15	
1-Methylnaphthalene (F)	3	0.0131	0.0118	50000	45680	ug/L	-9	15	

SEQUENCE SUMMARY FOR 185586 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 295454249 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 11-NOV-2005
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	31500001	X	PRIMER - 315			11-NOV-2005 10:49	1.0						
002	31500002	X	PRIMER			11-NOV-2005 11:20	1.0						
003	31500003	X	IB - 315			11-NOV-2005 11:52	1.0						
004	31500004	X	IB			11-NOV-2005 12:24	1.0						
005	31500005	X	IB			11-NOV-2005 12:55	1.0						
006	31500006	ICAL				11-NOV-2005 13:27	1.0					1	
007	31500007	ICAL				11-NOV-2005 13:58	1.0					2	
008	31500008	ICAL				11-NOV-2005 14:30	1.0					3	
009	31500009	ICAL				11-NOV-2005 15:02	1.0					4	
010	31500010	ICAL				11-NOV-2005 15:33	1.0					5	
011	31500011	ICAL				11-NOV-2005 16:05	1.0					6	
012	31500012	ICAL				11-NOV-2005 16:36	1.0					7	
013	31500013	X	IB			11-NOV-2005 17:08	1.0						
014	31500014	X	IB			11-NOV-2005 17:40	1.0						
015	31500015	ICV				11-NOV-2005 18:11	1.0		10			8	474
016	31500016	X	ICV			11-NOV-2005 18:43	1.0					8	
017	31500017	X	IB			11-NOV-2005 19:14	1.0						

Stds used: 1=S1620 2=S1619 3=S1618 4=S1617 5=S1616 6=S1615 7=S1614 8=S1859

SEQUENCE SUMMARY FOR 185586 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296115859 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 21-MAR-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	08000001	X	IB - 080			21-MAR-2006 10:59	1.0						
002	08000002	CCV	L			21-MAR-2006 11:30	1.0	1.0			10	1	
003	08000003	X	CCV			21-MAR-2006 12:02	1.0					1	
004	08000004	X	IB			21-MAR-2006 12:33	1.0						
005	08000005	BS	QC332069	111439	Water	21-MAR-2006 13:05	1.0	0.002			10		
006	08000006	BSD	QC332070	111439	Water	21-MAR-2006 13:37	1.0	0.002			10		
007	08000007	BLANK	QC332068	111439	Water	21-MAR-2006 14:08	1.0	0.002			10		
008	08000008	SAMPLE	185511-012	111439	Water	21-MAR-2006 14:40	1.0	0.001942			10		
009	08000009	SAMPLE	185511-013	111439	Water	21-MAR-2006 15:11	1.0	0.001923			10		
010	08000010	SAMPLE	185558-011	111439	Water	21-MAR-2006 15:43	1.0	0.001905			10		
011	08000011	SAMPLE	185558-012	111439	Water	21-MAR-2006 16:15	1.0	0.001887			10		
012	08000012	SAMPLE	185558-013	111439	Water	21-MAR-2006 16:46	1.0	0.001905			10		
013	08000013	SAMPLE	185558-014	111439	Water	21-MAR-2006 17:18	1.0	0.001887			10		
014	08000014	SAMPLE	185558-015	111439	Water	21-MAR-2006 17:50	1.0	0.001887			10		
015	08000015	X	IB			21-MAR-2006 18:21	1.0						475
016	08000016	CCV	M			21-MAR-2006 18:53	1.0	1.0			10	2	
017	08000017	X	CCV			21-MAR-2006 19:25	1.0					2	
018	08000018	X	IB			21-MAR-2006 19:56	1.0						
019	08000019	SAMPLE	185558-016	111439	Water	21-MAR-2006 20:28	1.0	0.001887			10		
020	08000020	SAMPLE	185586-001	111439	Water	21-MAR-2006 20:59	1.0	0.001887			10		
021	08000021	SAMPLE	185586-002	111439	Water	21-MAR-2006 21:31	1.0	0.001887			10		
022	08000022	SAMPLE	185586-003	111439	Water	21-MAR-2006 22:02	1.0	0.001887			10		
023	08000023	SAMPLE	185586-009	111439	Water	21-MAR-2006 22:34	1.0	0.001887			10		
024	08000024	SAMPLE	185545-003	111395	Soil	21-MAR-2006 23:06	5.0	0.06693		2	10		
025	08000025	SAMPLE	185545-001	111395	Soil	21-MAR-2006 23:37	5.0	0.06583		2	10		
026	08000026	X	IB			22-MAR-2006 00:09	1.0						
027	08000027	X	IB			22-MAR-2006 00:40	1.0						
028	08000028	CCV	H			22-MAR-2006 01:12	1.0	1.0			10	3	
029	08000029	X	CCV			22-MAR-2006 01:43	1.0					3	
030	08000030	X	IB			22-MAR-2006 02:15	1.0						

Stds used: 1=S2256 2=S2255 3=S2954

REPORTING SUMMARY FOR 185586 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185586-001	Naphthalene	HPLC04	1	03/21/06 20:59
185586-001	Acenaphthylene	HPLC04	1	03/21/06 20:59
185586-001	Acenaphthene	HPLC04	1	03/21/06 20:59
185586-001	Fluorene	HPLC04	1	03/21/06 20:59
185586-001	Phenanthrene	HPLC04	3	03/21/06 20:59
185586-001	Anthracene	HPLC04	3	03/21/06 20:59
185586-001	Fluoranthene	HPLC04	3	03/21/06 20:59
185586-001	Pyrene	HPLC04	3	03/21/06 20:59
185586-001	Benzo(a)anthracene	HPLC04	3	03/21/06 20:59
185586-001	Chrysene	HPLC04	3	03/21/06 20:59
185586-001	Benzo(b)fluoranthene	HPLC04	3	03/21/06 20:59
185586-001	Benzo(k)fluoranthene	HPLC04	3	03/21/06 20:59
185586-001	Benzo(a)pyrene	HPLC04	3	03/21/06 20:59
185586-001	Dibenz(a,h)anthracene	HPLC04	3	03/21/06 20:59
185586-001	Benzo(g,h,i)perylene	HPLC04	3	03/21/06 20:59
185586-001	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/21/06 20:59
185586-001	1-Methylnaphthalene (UV)	HPLC04	1	03/21/06 20:59
185586-001	1-Methylnaphthalene (F)	HPLC04	3	03/21/06 20:59
185586-002	Naphthalene	HPLC04	1	03/21/06 21:31
185586-002	Acenaphthylene	HPLC04	1	03/21/06 21:31
185586-002	Acenaphthene	HPLC04	1	03/21/06 21:31
185586-002	Fluorene	HPLC04	1	03/21/06 21:31
185586-002	Phenanthrene	HPLC04	3	03/21/06 21:31
185586-002	Anthracene	HPLC04	3	03/21/06 21:31
185586-002	Fluoranthene	HPLC04	3	03/21/06 21:31
185586-002	Pyrene	HPLC04	3	03/21/06 21:31
185586-002	Benzo(a)anthracene	HPLC04	3	03/21/06 21:31
185586-002	Chrysene	HPLC04	3	03/21/06 21:31
185586-002	Benzo(b)fluoranthene	HPLC04	3	03/21/06 21:31
185586-002	Benzo(k)fluoranthene	HPLC04	3	03/21/06 21:31
185586-002	Benzo(a)pyrene	HPLC04	3	03/21/06 21:31
185586-002	Dibenz(a,h)anthracene	HPLC04	3	03/21/06 21:31
185586-002	Benzo(g,h,i)perylene	HPLC04	3	03/21/06 21:31
185586-002	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/21/06 21:31
185586-002	1-Methylnaphthalene (UV)	HPLC04	1	03/21/06 21:31
185586-002	1-Methylnaphthalene (F)	HPLC04	3	03/21/06 21:31
185586-003	Naphthalene	HPLC04	1	03/21/06 22:02
185586-003	Acenaphthylene	HPLC04	1	03/21/06 22:02
185586-003	Acenaphthene	HPLC04	1	03/21/06 22:02
185586-003	Fluorene	HPLC04	1	03/21/06 22:02
185586-003	Phenanthrene	HPLC04	3	03/21/06 22:02
185586-003	Anthracene	HPLC04	3	03/21/06 22:02
185586-003	Fluoranthene	HPLC04	3	03/21/06 22:02
185586-003	Pyrene	HPLC04	3	03/21/06 22:02
185586-003	Benzo(a)anthracene	HPLC04	3	03/21/06 22:02
185586-003	Chrysene	HPLC04	3	03/21/06 22:02
185586-003	Benzo(b)fluoranthene	HPLC04	3	03/21/06 22:02
185586-003	Benzo(k)fluoranthene	HPLC04	3	03/21/06 22:02
185586-003	Benzo(a)pyrene	HPLC04	3	03/21/06 22:02
185586-003	Dibenz(a,h)anthracene	HPLC04	3	03/21/06 22:02
185586-003	Benzo(g,h,i)perylene	HPLC04	3	03/21/06 22:02
185586-003	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/21/06 22:02

REPORTING SUMMARY FOR 185586 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185586-003	1-Methylnaphthalene (UV)	HPLC04	1	03/21/06 22:02
185586-003	1-Methylnaphthalene (F)	HPLC04	3	03/21/06 22:02
185586-009	Naphthalene	HPLC04	1	03/21/06 22:34
185586-009	Acenaphthylene	HPLC04	1	03/21/06 22:34
185586-009	Acenaphthene	HPLC04	1	03/21/06 22:34
185586-009	Fluorene	HPLC04	1	03/21/06 22:34
185586-009	Phenanthrene	HPLC04	3	03/21/06 22:34
185586-009	Anthracene	HPLC04	3	03/21/06 22:34
185586-009	Fluoranthene	HPLC04	3	03/21/06 22:34
185586-009	Pyrene	HPLC04	3	03/21/06 22:34
185586-009	Benzo(a)anthracene	HPLC04	3	03/21/06 22:34
185586-009	Chrysene	HPLC04	3	03/21/06 22:34
185586-009	Benzo(b)fluoranthene	HPLC04	3	03/21/06 22:34
185586-009	Benzo(k)fluoranthene	HPLC04	3	03/21/06 22:34
185586-009	Benzo(a)pyrene	HPLC04	3	03/21/06 22:34
185586-009	Dibenz(a,h)anthracene	HPLC04	3	03/21/06 22:34
185586-009	Benzo(g,h,i)perylene	HPLC04	3	03/21/06 22:34
185586-009	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/21/06 22:34
185586-009	1-Methylnaphthalene (UV)	HPLC04	1	03/21/06 22:34
185586-009	1-Methylnaphthalene (F)	HPLC04	3	03/21/06 22:34
QC332068	Naphthalene	HPLC04	1	03/21/06 14:08
QC332068	Acenaphthylene	HPLC04	1	03/21/06 14:08
QC332068	Acenaphthene	HPLC04	1	03/21/06 14:08
QC332068	Fluorene	HPLC04	1	03/21/06 14:08
QC332068	Phenanthrene	HPLC04	3	03/21/06 14:08
QC332068	Anthracene	HPLC04	3	03/21/06 14:08
QC332068	Fluoranthene	HPLC04	3	03/21/06 14:08
QC332068	Pyrene	HPLC04	3	03/21/06 14:08
QC332068	Benzo(a)anthracene	HPLC04	3	03/21/06 14:08
QC332068	Chrysene	HPLC04	3	03/21/06 14:08
QC332068	Benzo(b)fluoranthene	HPLC04	3	03/21/06 14:08
QC332068	Benzo(k)fluoranthene	HPLC04	3	03/21/06 14:08
QC332068	Benzo(a)pyrene	HPLC04	3	03/21/06 14:08
QC332068	Dibenz(a,h)anthracene	HPLC04	3	03/21/06 14:08
QC332068	Benzo(g,h,i)perylene	HPLC04	3	03/21/06 14:08
QC332068	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/21/06 14:08
QC332068	1-Methylnaphthalene (UV)	HPLC04	1	03/21/06 14:08
QC332068	1-Methylnaphthalene (F)	HPLC04	3	03/21/06 14:08
QC332069	Naphthalene	HPLC04	1	03/21/06 13:05
QC332069	Fluorene	HPLC04	1	03/21/06 13:05
QC332069	Pyrene	HPLC04	3	03/21/06 13:05
QC332069	Benzo(a)pyrene	HPLC04	3	03/21/06 13:05
QC332069	1-Methylnaphthalene (UV)	HPLC04	1	03/21/06 13:05
QC332069	1-Methylnaphthalene (F)	HPLC04	3	03/21/06 13:05
QC332070	Naphthalene	HPLC04	1	03/21/06 13:37
QC332070	Fluorene	HPLC04	1	03/21/06 13:37
QC332070	Pyrene	HPLC04	3	03/21/06 13:37
QC332070	Benzo(a)pyrene	HPLC04	3	03/21/06 13:37
QC332070	1-Methylnaphthalene (UV)	HPLC04	1	03/21/06 13:37
QC332070	1-Methylnaphthalene (F)	HPLC04	3	03/21/06 13:37

Curtis & Tompkins Laboratories **Sample Preparation Summary** **20-MAR-2006 17:26**

Batch Number : 111439
Date Extracted: 19-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : 8310
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2841M
Spike #2 ID : S2884B
Spike #3 ID :
SOP Version : 8310w_rv6

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185511-012		Treadwell & Rollo	Water	1030	mL	2	0.001942	1	5	.1	0		8310		
185511-013		Treadwell & Rollo	Water	1040	mL	2	0.001923	1	5	.1	0		8310		
185558-011		Treadwell & Rollo	Water	1050	mL	2	0.001905	1	6	.1	0		8310		
185558-012		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185558-013		Treadwell & Rollo	Water	1050	mL	2	0.001905	1	6	.1	0		8310		
185558-014		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185558-015		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185558-016		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185586-001		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185586-002		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185586-003		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185586-009		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
QC332068	BLANK		Water	1000	mL	2	0.002000	1		.1	0		8310		
QC332069	BS		Water	1000	mL	2	0.002000	1		.1	1		8310		
QC332070	BSD		Water	1000	mL	2	0.002000	1		.1	1		8310		

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Prep Chemist: Jessie Mee Reviewed By: Kurt Date: 3/20/06

Relinquished By: Kurt Received By: [illegible] Date: 21MAR2006

Curtis & Tompkins, Ltd

8310 WATER PREP LOG

BK2190

LIMS Batch No: 111439
LIMS Analysis: 8310
Extracted by: JOM
Date Extracted: 19 Mar 06

Extraction Method:
☐ EPA 3510c sep. funnel
☒ EPA 3520c cont. L/L
☐ _____

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Cleanup Method (if needed):
☐ EPA 3640a GPC
☐ EPA 3630c Silica Gel

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185511-012 X	1030	5	2.0		
13 U	1040	5			
185586-011 I	1050	6			
12 F	1060				
13 M	1050				
14	1060				
15					
16 L					
185586-001 L					
02					*
03					*
09					*
MB BC332068	1000	NA			
BS 69					
BSD 70					

KMH 3/24/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.1 mL of surrogate solution was added to all samples	2041M / 4*	JOM 3/19/06
1.0 mL of matrix spiking solution was added to all spikes	2004B	
☒ Samples continuously extracted with about 450 mL of CH_2Cl_2	EMH6014	
Extraction Start Time:	1225	
Extraction End Time:	0745	3/20/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	KMH 3/20/06
Extracts filtered through baked, CH2Cl2-rinsed ~~powdered~~ granular Na2SO4	EM4518532	
Exchanged 2x with Acetonitrile	EM45216	
Concentrated: ☒ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Silica Gel	NA	
Extracts filtered with 0.45 um PTFE syringe filter	WHATMAN K435	

Jennifer Chen 3/19/06
Extraction Chemist **Date**

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Contined from Page ____
Continued on Page ____

3/20/06
Reviewed by **Date**

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8310 Water 3520C
As of 04/18/06

Analyte	Units	HPLC02 1	HPLC02 2	HPLC02 3	HPLC04 1	HPLC04 2	HPLC04 3
Naphthalene	ug/L	0.16		0.069	0.097		0.10
Acenaphthylene	ug/L	0.37	0.29		0.24	0.16	
2-Methylnaphthalene	ug/L				0.072		0.10
Acenaphthene	ug/L	0.36		0.098	0.33		0.085
Fluorene	ug/L	0.051		0.054	0.028		0.017
Phenanthrene	ug/L	0.030		0.0086	0.0082		0.0078
Anthracene	ug/L	0.021		0.0077	0.024		0.023
Fluoranthene	ug/L	0.13		0.011	0.042		0.013
Pyrene	ug/L	0.066		0.0048	0.036		0.010
Benzo(a)anthracene	ug/L	0.044		0.0046	0.022		0.013
Chrysene	ug/L	0.036		0.0059	0.021		0.0096
Benzo(b)fluoranthene	ug/L	0.032		0.0081	0.015		0.013
Benzo(k)fluoranthene	ug/L	0.037		0.0044	0.013		0.0080
Benzo(a)pyrene	ug/L	0.055		0.0045	0.017		0.025
Dibenz(a,h)anthracene	ug/L	0.12		0.026	0.037		0.025
Benzo(g,h,i)perylene	ug/L	0.066		0.014	0.047		0.017
Indeno(1,2,3-cd)pyrene	ug/L	0.065		0.011	0.013		0.0096
1-Methylnaphthalene (UV)	ug/L	1.2	1.9		9.0	9.1	
1-Methylnaphthalene (F)	ug/L			0.72			9.8

METALS

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	600GW102	Batch#:	111436
Lab ID:	185586-001	Sampled:	03/15/06
Matrix:	Filtrate	Received:	03/16/06
Units:	ug/L	Prepared:	03/19/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/30/06
Arsenic	ND	5.0	1.000	03/25/06
Cadmium	ND	1.0	1.000	03/25/06
Calcium	180,000	10,000	20.00	03/29/06
Chromium	ND	10	1.000	03/25/06
Copper	1.1	1.0	1.000	03/25/06
Iron	2,500	100	1.000	03/25/06
Lead	ND	3.0	1.000	03/25/06
Magnesium	54,000	10,000	20.00	03/29/06
Manganese	370	200	20.00	03/29/06
Nickel	ND	20	1.000	03/25/06
Potassium	12,000	10,000	20.00	03/29/06
Sodium	180,000	10,000	20.00	03/29/06
Zinc	ND	20	1.000	03/25/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	600GW103	Batch#:	111436
Lab ID:	185586-002	Sampled:	03/15/06
Matrix:	Filtrate	Received:	03/16/06
Units:	ug/L	Prepared:	03/19/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/30/06
Arsenic	ND	5.0	1.000	03/25/06
Cadmium	ND	1.0	1.000	03/25/06
Calcium	130,000	10,000	20.00	03/29/06
Chromium	ND	10	1.000	03/25/06
Copper	ND	1.0	1.000	03/25/06
Iron	13,000	100	1.000	03/25/06
Lead	ND	3.0	1.000	03/25/06
Magnesium	35,000	10,000	20.00	03/29/06
Manganese	4,000	200	20.00	03/25/06
Nickel	ND	20	1.000	03/25/06
Potassium	13,000	500	1.000	03/25/06
Sodium	86,000	10,000	20.00	03/29/06
Zinc	ND	20	1.000	03/25/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	600GW104	Batch#:	111436
Lab ID:	185586-003	Sampled:	03/15/06
Matrix:	Filtrate	Received:	03/16/06
Units:	ug/L	Prepared:	03/19/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/30/06
Arsenic	ND	5.0	1.000	03/25/06
Cadmium	ND	1.0	1.000	03/25/06
Calcium	130,000	10,000	20.00	03/29/06
Chromium	ND	10	1.000	03/25/06
Copper	1.4	1.0	1.000	03/25/06
Iron	2,200	100	1.000	03/25/06
Lead	ND	3.0	1.000	03/25/06
Magnesium	50,000	10,000	20.00	03/29/06
Manganese	420	200	20.00	03/29/06
Nickel	ND	20	1.000	03/25/06
Potassium	5,500	500	1.000	03/25/06
Sodium	44,000	10,000	20.00	03/29/06
Zinc	ND	20	1.000	03/25/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	DAEGW07	Sampled:	03/15/06
Lab ID:	185586-009	Received:	03/16/06
Matrix:	Filtrate	Prepared:	03/28/06
Units:	ug/L	Analyzed:	03/31/06
Batch#:	111759		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Barium	94	10	1.000
Beryllium	ND	2.0	1.000
Cadmium	ND	1.0	1.000
Calcium	28,000	10,000	20.00
Chromium	ND	10	1.000
Cobalt	ND	10	1.000
Copper	1.5	1.0	1.000
Iron	180	100	1.000
Lead	ND	3.0	1.000
Magnesium	19,000	10,000	20.00
Manganese	54	10	1.000
Nickel	ND	20	1.000
Potassium	1,200	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	22,000	10,000	20.00
Thallium	ND	1.0	1.000
Vanadium	ND	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	BB3PZ102	Sampled:	03/15/06
Lab ID:	185586-010	Received:	03/16/06
Matrix:	Water	Prepared:	03/28/06
Units:	ug/L	Analyzed:	03/31/06
Batch#:	111759		

Analyte	Result	RL	Diln Fac
Aluminum	65,000	50,000	500.0
Antimony	1.8	1.0	1.000
Arsenic	39	5.0	1.000
Barium	790	200	20.00
Beryllium	ND	2.0	1.000
Cadmium	3.5	1.0	1.000
Calcium	35,000	10,000	20.00
Chromium	440	200	20.00
Cobalt	190	10	1.000
Copper	96	1.0	1.000
Iron	120,000	2,000	20.00
Lead	86	3.0	1.000
Magnesium	56,000	10,000	20.00
Manganese	22,000	2,000	200.0
Nickel	1,200	400	20.00
Potassium	5,100	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	52,000	10,000	20.00
Thallium	ND	1.0	1.000
Vanadium	300	200	20.00
Zinc	480	400	20.00

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	BB3PZ102	Sampled:	03/15/06
Lab ID:	185586-010	Received:	03/16/06
Matrix:	Filtrate	Prepared:	03/28/06
Units:	ug/L	Analyzed:	03/31/06
Batch#:	111759		

Analyte	Result	RL	Diln Fac
Aluminum	ND	2,000	20.00
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Barium	19	10	1.000
Beryllium	ND	2.0	1.000
Cadmium	ND	1.0	1.000
Calcium	20,000	10,000	20.00
Chromium	ND	10	1.000
Cobalt	ND	10	1.000
Copper	2.6	1.0	1.000
Iron	310	100	1.000
Lead	ND	3.0	1.000
Magnesium	30,000	10,000	20.00
Manganese	54	10	1.000
Nickel	ND	20	1.000
Potassium	1,800	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	52,000	10,000	20.00
Thallium	ND	1.0	1.000
Vanadium	ND	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	BB3SW102	Sampled:	03/15/06
Lab ID:	185586-011	Received:	03/16/06
Matrix:	Water	Prepared:	03/28/06
Units:	ug/L	Analyzed:	03/31/06
Batch#:	111759		

Analyte	Result	RL	Diln Fac
Aluminum	22,000	20,000	200.0
Antimony	ND	1.0	1.000
Arsenic	11	5.0	1.000
Barium	210	200	20.00
Beryllium	ND	2.0	1.000
Cadmium	ND	1.0	1.000
Calcium	17,000	500	1.000
Chromium	170	10	1.000
Cobalt	24	10	1.000
Copper	30	1.0	1.000
Iron	30,000	2,000	20.00
Lead	31	3.0	1.000
Magnesium	98,000	10,000	20.00
Manganese	990	200	20.00
Nickel	120	20	1.000
Potassium	2,600	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	83,000	10,000	20.00
Thallium	ND	1.0	1.000
Vanadium	79	10	1.000
Zinc	85	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	BB3SW102	Sampled:	03/15/06
Lab ID:	185586-011	Received:	03/16/06
Matrix:	Filtrate	Prepared:	03/28/06
Units:	ug/L	Analyzed:	03/31/06
Batch#:	111759		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Barium	55	10	1.000
Beryllium	ND	2.0	1.000
Cadmium	ND	1.0	1.000
Calcium	16,000	500	1.000
Chromium	60	10	1.000
Cobalt	ND	10	1.000
Copper	ND	1.0	1.000
Iron	ND	100	1.000
Lead	ND	3.0	1.000
Magnesium	91,000	10,000	20.00
Manganese	ND	10	1.000
Nickel	ND	20	1.000
Potassium	760	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	84,000	10,000	20.00
Thallium	ND	1.0	1.000
Vanadium	ND	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065PZ7A	Sampled:	03/15/06
Lab ID:	185586-015	Received:	03/16/06
Matrix:	Filtrate	Prepared:	03/28/06
Units:	ug/L	Analyzed:	03/31/06
Batch#:	111759		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Cadmium	1.1	1.0	1.000
Calcium	44,000	10,000	20.00
Chromium	19	10	1.000
Copper	ND	1.0	1.000
Iron	ND	100	1.000
Lead	ND	3.0	1.000
Magnesium	54,000	10,000	20.00
Manganese	ND	10	1.000
Nickel	ND	20	1.000
Potassium	850	500	1.000
Sodium	63,000	10,000	20.00
Vanadium	10	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065PZ7B	Sampled:	03/15/06
Lab ID:	185586-016	Received:	03/16/06
Matrix:	Filtrate	Prepared:	03/28/06
Units:	ug/L	Analyzed:	03/31/06
Batch#:	111759		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Cadmium	ND	1.0	1.000
Calcium	42,000	10,000	20.00
Chromium	ND	10	1.000
Copper	ND	1.0	1.000
Iron	ND	100	1.000
Lead	ND	3.0	1.000
Magnesium	95,000	10,000	20.00
Manganese	ND	10	1.000
Nickel	ND	20	1.000
Potassium	ND	500	1.000
Sodium	40,000	10,000	20.00
Vanadium	ND	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	231GW09	Sampled:	03/15/06
Lab ID:	185586-017	Received:	03/16/06
Matrix:	Filtrate	Prepared:	03/28/06
Units:	ug/L	Analyzed:	03/31/06
Batch#:	111759		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Barium	31	10	1.000
Beryllium	ND	2.0	1.000
Cadmium	ND	1.0	1.000
Calcium	15,000	500	1.000
Chromium	15	10	1.000
Cobalt	ND	10	1.000
Copper	ND	1.0	1.000
Iron	ND	100	1.000
Lead	ND	3.0	1.000
Magnesium	24,000	10,000	20.00
Manganese	ND	10	1.000
Nickel	29	20	1.000
Potassium	ND	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	42,000	10,000	20.00
Thallium	ND	1.0	1.000
Vanadium	ND	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	231GW11	Batch#:	111436
Lab ID:	185586-018	Sampled:	03/15/06
Matrix:	Filtrate	Received:	03/16/06
Units:	ug/L	Prepared:	03/19/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/30/06
Arsenic	ND	5.0	1.000	03/25/06
Cadmium	ND	1.0	1.000	03/25/06
Calcium	29,000	10,000	20.00	03/29/06
Chromium	ND	10	1.000	03/25/06
Copper	ND	1.0	1.000	03/25/06
Iron	820	100	1.000	03/25/06
Lead	ND	3.0	1.000	03/25/06
Magnesium	44,000	10,000	20.00	03/29/06
Manganese	78	10	1.000	03/25/06
Nickel	ND	20	1.000	03/25/06
Potassium	9,000	500	1.000	03/25/06
Sodium	99,000	10,000	20.00	03/29/06
Zinc	21	20	1.000	03/25/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	231GW23	Batch#:	111436
Lab ID:	185586-019	Sampled:	03/15/06
Matrix:	Filtrate	Received:	03/16/06
Units:	ug/L	Prepared:	03/19/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/30/06
Arsenic	ND	5.0	1.000	03/25/06
Cadmium	ND	1.0	1.000	03/25/06
Calcium	46,000	10,000	20.00	03/29/06
Chromium	ND	10	1.000	03/25/06
Copper	1.1	1.0	1.000	03/25/06
Iron	22,000	2,000	20.00	03/29/06
Lead	ND	3.0	1.000	03/25/06
Magnesium	52,000	10,000	20.00	03/29/06
Manganese	2,000	200	20.00	03/29/06
Nickel	ND	20	1.000	03/25/06
Potassium	16,000	500	1.000	03/25/06
Sodium	63,000	10,000	20.00	03/29/06
Zinc	ND	20	1.000	03/25/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	231GW25	Batch#:	111436
Lab ID:	185586-020	Sampled:	03/15/06
Matrix:	Filtrate	Received:	03/16/06
Units:	ug/L	Prepared:	03/19/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/30/06
Arsenic	14	5.0	1.000	03/25/06
Cadmium	ND	1.0	1.000	03/25/06
Calcium	95,000	10,000	20.00	03/29/06
Chromium	ND	10	1.000	03/25/06
Copper	ND	1.0	1.000	03/25/06
Iron	29,000	2,000	20.00	03/29/06
Lead	ND	3.0	1.000	03/25/06
Magnesium	66,000	10,000	20.00	03/29/06
Manganese	3,900	200	20.00	03/29/06
Nickel	ND	20	1.000	03/25/06
Potassium	9,200	500	1.000	03/25/06
Sodium	150,000	10,000	20.00	03/29/06
Zinc	ND	20	1.000	03/25/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	231GW28	Batch#:	111436
Lab ID:	185586-021	Sampled:	03/15/06
Matrix:	Filtrate	Received:	03/16/06
Units:	ug/L	Prepared:	03/19/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/30/06
Arsenic	6.3	5.0	1.000	03/25/06
Cadmium	ND	1.0	1.000	03/25/06
Calcium	53,000	10,000	20.00	03/29/06
Chromium	ND	10	1.000	03/25/06
Copper	ND	1.0	1.000	03/25/06
Iron	16,000	100	1.000	03/25/06
Lead	ND	3.0	1.000	03/25/06
Magnesium	32,000	10,000	20.00	03/29/06
Manganese	1,400	200	20.00	03/29/06
Nickel	ND	20	1.000	03/25/06
Potassium	3,100	500	1.000	03/25/06
Sodium	26,000	10,000	20.00	03/29/06
Zinc	ND	20	1.000	03/25/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	231GW27	Batch#:	111436
Lab ID:	185586-022	Sampled:	03/15/06
Matrix:	Filtrate	Received:	03/16/06
Units:	ug/L	Prepared:	03/19/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/30/06
Arsenic	ND	5.0	1.000	03/25/06
Cadmium	ND	1.0	1.000	03/25/06
Calcium	30,000	10,000	20.00	03/29/06
Chromium	30	10	1.000	03/25/06
Copper	ND	1.0	1.000	03/25/06
Iron	ND	100	1.000	03/25/06
Lead	ND	3.0	1.000	03/25/06
Magnesium	53,000	10,000	20.00	03/29/06
Manganese	ND	10	1.000	03/25/06
Nickel	ND	20	1.000	03/25/06
Potassium	670	500	1.000	03/25/06
Sodium	57,000	10,000	20.00	03/29/06
Zinc	ND	20	1.000	03/25/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	231GW20	Batch#:	111436
Lab ID:	185586-023	Sampled:	03/15/06
Matrix:	Filtrate	Received:	03/16/06
Units:	ug/L	Prepared:	03/19/06
Diln Fac:	1.000	Analyzed:	03/29/06

Analyte	Result	RL
Aluminum	ND	100
Arsenic	ND	5.0
Cadmium	ND	1.0
Calcium	15,000	500
Chromium	ND	10
Copper	2.8	1.0
Iron	ND	100
Lead	ND	3.0
Magnesium	9,100	500
Manganese	ND	10
Nickel	ND	20
Potassium	2,400	500
Sodium	14,000	500
Zinc	ND	20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	231GW18	Batch#:	111436
Lab ID:	185586-024	Sampled:	03/15/06
Matrix:	Filtrate	Received:	03/16/06
Units:	ug/L	Prepared:	03/19/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/29/06
Arsenic	ND	5.0	1.000	03/29/06
Cadmium	ND	1.0	1.000	03/29/06
Calcium	27,000	10,000	20.00	03/30/06
Chromium	14	10	1.000	03/29/06
Copper	ND	1.0	1.000	03/29/06
Iron	ND	100	1.000	03/29/06
Lead	ND	3.0	1.000	03/29/06
Magnesium	55,000	10,000	20.00	03/30/06
Manganese	ND	10	1.000	03/29/06
Nickel	ND	20	1.000	03/29/06
Potassium	1,300	500	1.000	03/29/06
Sodium	58,000	10,000	20.00	03/30/06
Zinc	ND	20	1.000	03/29/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	231GW17	Batch#:	111436
Lab ID:	185586-025	Sampled:	03/15/06
Matrix:	Filtrate	Received:	03/16/06
Units:	ug/L	Prepared:	03/19/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/29/06
Arsenic	ND	5.0	1.000	03/29/06
Cadmium	ND	1.0	1.000	03/29/06
Calcium	15,000	500	1.000	03/29/06
Chromium	19	10	1.000	03/29/06
Copper	ND	1.0	1.000	03/29/06
Iron	ND	100	1.000	03/29/06
Lead	ND	3.0	1.000	03/29/06
Magnesium	48,000	10,000	20.00	03/30/06
Manganese	ND	10	1.000	03/29/06
Nickel	ND	20	1.000	03/29/06
Potassium	790	500	1.000	03/29/06
Sodium	43,000	10,000	20.00	03/30/06
Zinc	ND	20	1.000	03/29/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	231GW06	Batch#:	111436
Lab ID:	185586-026	Sampled:	03/15/06
Matrix:	Filtrate	Received:	03/16/06
Units:	ug/L	Prepared:	03/19/06

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	03/29/06
Arsenic	7.2	5.0	1.000	03/29/06
Cadmium	ND	1.0	1.000	03/29/06
Calcium	23,000	10,000	20.00	03/30/06
Chromium	ND	10	1.000	03/29/06
Copper	1.4	1.0	1.000	03/29/06
Iron	150	100	1.000	03/29/06
Lead	ND	3.0	1.000	03/29/06
Magnesium	35,000	10,000	20.00	03/30/06
Manganese	21	10	1.000	03/29/06
Nickel	ND	20	1.000	03/29/06
Potassium	8,100	500	1.000	03/29/06
Sodium	58,000	10,000	20.00	03/30/06
Zinc	ND	20	1.000	03/29/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Aluminum

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Analyte:	Aluminum	Sampled:	03/15/06
Matrix:	Filtrate	Received:	03/16/06
Units:	ug/L	Prepared:	03/28/06
Diln Fac:	1.000	Analyzed:	03/31/06
Batch#:	111759		

Field ID	Type	Lab ID	Result	RL
BHWGW04	SAMPLE	185586-004	ND	100
HWGW100	SAMPLE	185586-005	ND	100
HWGW101	SAMPLE	185586-006	ND	100
HWGW101RB04	SAMPLE	185586-007	ND	100
	BLANK	QC333334	ND	100

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Chromium

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Analyte:	Chromium	Sampled:	03/15/06
Matrix:	Filtrate	Received:	03/16/06
Units:	ug/L	Prepared:	03/28/06
Diln Fac:	1.000	Analyzed:	03/31/06
Batch#:	111759		

Field ID	Type	Lab ID	Result	RL
BHWGW04	SAMPLE	185586-004	ND	10
HWGW100	SAMPLE	185586-005	32	10
HWGW101	SAMPLE	185586-006	22	10
HWGW101RB04	SAMPLE	185586-007	ND	10
	BLANK	QC333334	ND	10

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Iron

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Analyte:	Iron	Sampled:	03/15/06
Matrix:	Filtrate	Received:	03/16/06
Units:	ug/L	Prepared:	03/28/06
Diln Fac:	1.000	Analyzed:	03/31/06
Batch#:	111759		

Field ID	Type	Lab ID	Result	RL
BHWGW04	SAMPLE	185586-004	ND	100
HWGW100	SAMPLE	185586-005	ND	100
HWGW101	SAMPLE	185586-006	ND	100
HWGW101RB04	SAMPLE	185586-007	ND	100
	BLANK	QC333334	ND	100

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Mercury by Cold Vapor AA

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	111468
Field ID:	231GW09	Sampled:	03/15/06
Matrix:	Filtrate	Received:	03/16/06
Units:	ug/L	Prepared:	03/20/06
Diln Fac:	1.000	Analyzed:	03/20/06

Type	Lab ID	Result	RL
SAMPLE	185586-017	ND	0.20
BLANK	QC332184	ND	0.20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved			
Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332055	Batch#:	111436
Matrix:	Filtrate	Prepared:	03/19/06
Units:	ug/L	Analyzed:	03/24/06

Analyte	Result	RL
Aluminum	ND	100
Arsenic	ND	5.0
Cadmium	ND	1.0
Calcium	ND	500
Chromium	ND	10
Copper	ND	1.0
Iron	ND	100
Lead	ND	3.0
Magnesium	ND	500
Manganese	ND	10
Nickel	ND	20
Potassium	ND	500
Sodium	ND	500
Zinc	ND	20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC333334	Batch#:	111759
Matrix:	Filtrate	Prepared:	03/28/06
Units:	ug/L	Analyzed:	03/31/06

Analyte	Result	RL
Aluminum	ND	100
Antimony	ND	1.0
Arsenic	ND	5.0
Barium	ND	10
Beryllium	ND	2.0
Cadmium	ND	1.0
Calcium	ND	500
Chromium	ND	10
Cobalt	ND	10
Copper	ND	1.0
Iron	ND	100
Lead	ND	3.0
Magnesium	ND	500
Manganese	ND	10
Nickel	ND	20
Potassium	ND	500
Selenium	ND	5.0
Silver	ND	1.0
Sodium	ND	500
Thallium	ND	1.0
Vanadium	ND	10
Zinc	ND	20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Matrix:	Filtrate	Batch#:	111436
Units:	ug/L	Prepared:	03/19/06
Diln Fac:	1.000	Analyzed:	03/24/06

Type: BS Lab ID: QC332056

Analyte	Spiked	Result	%REC	Limits
Aluminum	100.0	103.5	104	80-120
Arsenic	100.0	103.1	103	80-120
Cadmium	100.0	101.3	101	80-120
Calcium	10,000	10,660	107	80-120
Chromium	100.0	104.5	105	80-120
Copper	100.0	106.4	106	80-120
Iron	10,000	10,590	106	80-120
Lead	100.0	102.8	103	80-120
Magnesium	10,000	10,650	107	80-120
Manganese	100.0	102.3	102	80-120
Nickel	100.0	105.8	106	80-120
Potassium	10,000	10,750	108	80-120
Sodium	10,000	10,560	106	80-120
Zinc	100.0	97.49	97	80-120

Type: BSD Lab ID: QC332057

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	100.0	103.5	104	80-120	0	20
Arsenic	100.0	102.4	102	80-120	1	20
Cadmium	100.0	99.96	100	80-120	1	20
Calcium	10,000	10,500	105	80-120	2	20
Chromium	100.0	102.0	102	80-120	2	20
Copper	100.0	104.9	105	80-120	1	20
Iron	10,000	10,260	103	80-120	3	20
Lead	100.0	103.5	104	80-120	1	20
Magnesium	10,000	10,650	107	80-120	0	20
Manganese	100.0	98.22	98	80-120	4	20
Nickel	100.0	103.6	104	80-120	2	20
Potassium	10,000	10,770	108	80-120	0	20
Sodium	10,000	10,400	104	80-120	2	20
Zinc	100.0	94.43	94	80-120	3	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Matrix:	Filtrate	Batch#:	111759
Units:	ug/L	Prepared:	03/28/06
Diln Fac:	1.000	Analyzed:	03/31/06

Type: BS Lab ID: QC333335

Analyte	Spiked	Result	%REC	Limits
Aluminum	100.0	109.7	110	80-120
Antimony	100.0	98.50	99	80-120
Arsenic	100.0	97.20	97	80-120
Barium	100.0	105.2	105	80-120
Beryllium	100.0	92.00	92	80-120
Cadmium	100.0	109.8	110	80-120
Calcium	10,000	9,226	92	80-120
Chromium	100.0	102.2	102	80-120
Cobalt	100.0	102.9	103	80-120
Copper	100.0	103.8	104	80-120
Iron	10,000	9,224	92	80-120
Lead	100.0	100.6	101	80-120
Magnesium	10,000	11,280	113	80-120
Manganese	100.0	97.09	97	80-120
Nickel	100.0	102.0	102	80-120
Potassium	10,000	10,340	103	80-120
Selenium	100.0	99.81	100	80-120
Silver	100.0	114.7	115	80-120
Sodium	10,000	10,180	102	80-120
Thallium	100.0	95.01	95	80-120
Vanadium	100.0	100.8	101	80-120
Zinc	100.0	98.68	99	80-120

Type: BSD Lab ID: QC333336

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	100.0	109.6	110	80-120	0	20
Antimony	100.0	97.66	98	80-120	1	20
Arsenic	100.0	93.78	94	80-120	4	20
Barium	100.0	104.0	104	80-120	1	20
Beryllium	100.0	90.84	91	80-120	1	20
Cadmium	100.0	106.8	107	80-120	3	20
Calcium	10,000	9,163	92	80-120	1	20
Chromium	100.0	98.91	99	80-120	3	20
Cobalt	100.0	100.2	100	80-120	3	20
Copper	100.0	100.6	101	80-120	3	20
Iron	10,000	9,022	90	80-120	2	20
Lead	100.0	101.1	101	80-120	0	20
Magnesium	10,000	11,000	110	80-120	3	20
Manganese	100.0	93.77	94	80-120	3	20
Nickel	100.0	98.15	98	80-120	4	20
Potassium	10,000	10,240	102	80-120	1	20
Selenium	100.0	98.68	99	80-120	1	20
Silver	100.0	114.5	115	80-120	0	20
Sodium	10,000	9,972	100	80-120	2	20
Thallium	100.0	96.05	96	80-120	1	20
Vanadium	100.0	97.09	97	80-120	4	20
Zinc	100.0	94.31	94	80-120	5	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Mercury by Cold Vapor AA

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	111468
Field ID:	231GW09	Sampled:	03/15/06
MSS Lab ID:	185586-017	Received:	03/16/06
Matrix:	Filtrate	Prepared:	03/20/06
Units:	ug/L	Analyzed:	03/20/06
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC332185		5.000	5.010	100	80-120		
BSD	QC332186		5.000	4.800	96	80-120	4	20
MS	QC332187	<0.07957	5.000	5.060	101	75-125		
MSD	QC332188		5.000	5.100	102	75-125	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1349MW02	Batch#:	111436
MSS Lab ID:	185457-016	Sampled:	03/10/06
Matrix:	Filtrate	Received:	03/10/06
Units:	ug/L	Prepared:	03/19/06
Diln Fac:	1.000	Analyzed:	03/24/06

Type: MS Lab ID: QC332058

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aluminum	17.02	100.0	104.7	88	75-125
Arsenic	0.9884	100.0	95.23	94	75-125
Cadmium	1.115	100.0	91.07	90	75-125
Calcium	79,580	10,000	85,450 >LR	59 NM	75-125
Chromium	75.08	100.0	178.7	104	75-125
Copper	1.188	100.0	96.45	95	75-125
Iron	233.4	10,000	10,680	104	75-125
Lead	<0.2399	100.0	109.5	110	75-125
Magnesium	261,800	10,000	244,700 >LR	-171 NM	75-125
Manganese	13.05	100.0	114.6	102	75-125
Nickel	8.796	100.0	105.2	96	75-125
Potassium	812.9	10,000	10,550	97	75-125
Sodium	208,400	10,000	199,100 >LR	-93 NM	75-125
Zinc	2.767	100.0	85.15	82	75-125

Type: MSD Lab ID: QC332059

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	100.0	102.3	85	75-125	2	20
Arsenic	100.0	96.03	95	75-125	1	20
Cadmium	100.0	92.53	91	75-125	2	20
Calcium	10,000	86,450 >LR	69 NM	75-125	NC	20
Chromium	100.0	182.5	107	75-125	2	20
Copper	100.0	98.45	97	75-125	2	20
Iron	10,000	10,830	106	75-125	1	20
Lead	100.0	109.7	110	75-125	0	20
Magnesium	10,000	244,400 >LR	-174 NM	75-125	NC	20
Manganese	100.0	116.7	104	75-125	2	20
Nickel	100.0	107.0	98	75-125	2	20
Potassium	10,000	10,500	97	75-125	0	20
Sodium	10,000	198,300 >LR	-101 NM	75-125	NC	20
Zinc	100.0	85.60	83	75-125	1	20

NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065PZ7A	Sampled:	03/15/06
MSS Lab ID:	185586-015	Received:	03/16/06
Matrix:	Filtrate	Prepared:	03/28/06
Units:	ug/L	Analyzed:	03/31/06
Batch#:	111759		

Type: MS Lab ID: QC333337

Analyte	MSS Result	Spiked	Result	%REC	Limits	Dilu Fac
Aluminum	1.827	100.0	109.8	108	75-125	1.000
Antimony	<0.07794	100.0	103.6	104	75-125	1.000
Arsenic	0.9672	100.0	100.2	99	75-125	1.000
Barium	71.85	100.0	184.6	113	75-125	1.000
Beryllium	<0.05514	100.0	99.40	99	75-125	1.000
Cadmium	1.091	100.0	111.1	110	75-125	1.000
Calcium	43,530	10,000	52,800	93 NM	75-125	20.00
Chromium	18.99	100.0	120.1	101	75-125	1.000
Cobalt	0.07802	100.0	98.56	98	75-125	1.000
Copper	0.9220	100.0	99.31	98	75-125	1.000
Iron	73.97	10,000	9,175	91	75-125	1.000
Lead	<0.2399	100.0	102.2	102	75-125	1.000
Magnesium	53,690	10,000	63,560	99 NM	75-125	20.00
Manganese	0.8605	100.0	94.94	94	75-125	1.000
Nickel	5.110	100.0	101.4	96	75-125	1.000
Potassium	852.1	10,000	10,870	100	75-125	1.000
Selenium	<0.3462	100.0	100.9	101	75-125	1.000
Silver	1.708	100.0	117.0	115	75-125	20.00
Sodium	62,680	10,000	70,340	77 NM	75-125	20.00
Thallium	0.9371	100.0	97.71	97	75-125	1.000
Vanadium	10.37	100.0	112.6	102	75-125	1.000
Zinc	2.831	100.0	98.80	96	75-125	1.000

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065PZ7A	Sampled:	03/15/06
MSS Lab ID:	185586-015	Received:	03/16/06
Matrix:	Filtrate	Prepared:	03/28/06
Units:	ug/L	Analyzed:	03/31/06
Batch#:	111759		

Type: MSD Lab ID: QC333338

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
Aluminum	100.0	111.7	110	75-125	2	20	1.000
Antimony	100.0	104.2	104	75-125	1	20	1.000
Arsenic	100.0	99.64	99	75-125	1	20	1.000
Barium	100.0	184.8	113	75-125	0	20	1.000
Beryllium	100.0	95.02	95	75-125	5	20	1.000
Cadmium	100.0	111.0	110	75-125	0	20	1.000
Calcium	10,000	52,540	90 NM	75-125	0	20	20.00
Chromium	100.0	120.5	102	75-125	0	20	1.000
Cobalt	100.0	99.50	99	75-125	1	20	1.000
Copper	100.0	100.2	99	75-125	1	20	1.000
Iron	10,000	9,187	91	75-125	0	20	1.000
Lead	100.0	103.5	104	75-125	1	20	1.000
Magnesium	10,000	62,560	89 NM	75-125	2	20	20.00
Manganese	100.0	95.21	94	75-125	0	20	1.000
Nickel	100.0	101.9	97	75-125	0	20	1.000
Potassium	10,000	10,920	101	75-125	0	20	1.000
Selenium	100.0	100.9	101	75-125	0	20	1.000
Silver	100.0	117.8	116	75-125	1	20	20.00
Sodium	10,000	72,560	99 NM	75-125	3	20	20.00
Thallium	100.0	100.1	99	75-125	2	20	1.000
Vanadium	100.0	112.3	102	75-125	0	20	1.000
Zinc	100.0	98.31	95	75-125	0	20	1.000

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1349MW02	Units:	ug/L
Type:	Serial Dilution	Batch#:	111436
MSS Lab ID:	185457-016	Sampled:	03/10/06
Lab ID:	QC332060	Received:	03/10/06
Matrix:	Filtrate	Analyzed:	03/24/06

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Diln Fac
Aluminum	ND	100.0	125.3 J	500.0		10	5.000
Arsenic	ND	5.000	ND	25.00		10	5.000
Cadmium	1.115	1.000	1.393 J	5.000		10	5.000
Calcium	79,580	10,000	73,950	50,000	7	10	100.0
Chromium	75.08	10.00	71.49	50.00	5	10	5.000
Copper	1.188	1.000	2.353 J	5.000		10	5.000
Iron	233.4	100.0	526.4	500.0	126 *	10	5.000
Lead	ND	3.000	ND	15.00		10	5.000
Magnesium	261,800	10,000	257,600	50,000	2	10	100.0
Manganese	13.05	10.00	14.27 J	50.00	9	10	5.000
Nickel	ND	20.00	9.497 J	100.0	8	10	5.000
Potassium	812.9	500.0	1,020 J	2,500	25 *	10	5.000
Sodium	208,400	10,000	197,300	50,000	5	10	100.0
Zinc	ND	20.00	3.247 J	100.0		10	5.000

*= Value outside of QC limits; see narrative
J= Estimated value
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065PZ7A	Units:	ug/L
Type:	Serial Dilution	Batch#:	111759
MSS Lab ID:	185586-015	Sampled:	03/15/06
Lab ID:	QC333339	Received:	03/16/06
Matrix:	Filtrate	Analyzed:	03/31/06

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Diln Fac
Aluminum	ND	100.0	ND	500.0		10	5.000
Antimony	ND	1.000	ND	5.000		10	5.000
Arsenic	ND	5.000	ND	25.00		10	5.000
Barium	71.85	10.00	69.71	50.00	3	10	5.000
Beryllium	ND	2.000	ND	10.00		10	5.000
Cadmium	1.091	1.000	1.340 J	5.000		10	5.000
Calcium	43,530	10,000	43,660 J	50,000	0	10	100.0
Chromium	18.99	10.00	18.83 J	50.00	1	10	5.000
Cobalt	ND	10.00	ND	50.00		10	5.000
Copper	ND	1.000	ND	5.000		10	5.000
Iron	ND	100.0	46.10 J	500.0		10	5.000
Lead	ND	3.000	ND	15.00		10	5.000
Magnesium	53,690	10,000	50,790	50,000	5	10	100.0
Manganese	ND	10.00	0.8121 J	50.00		10	5.000
Nickel	ND	20.00	4.164 J	100.0		10	5.000
Potassium	852.1	500.0	910.2 J	2,500	7	10	5.000
Selenium	ND	5.000	ND	25.00		10	5.000
Silver	ND	1.000	ND	5.000		10	5.000
Sodium	62,680	10,000	60,360	50,000	4	10	100.0
Thallium	ND	1.000	1.335 J	5.000		10	5.000
Vanadium	10.37	10.00	10.06 J	50.00	3	10	5.000
Zinc	ND	20.00	2.957 J	100.0		10	5.000

J= Estimated value
ND= Not Detected
RL= Reporting Limit

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : PDS
Inst : MET05
Seqnum: 56120449030
File : c2415030
IDF : 1.0
Lab ID: QC332061
Matrix: Filtrate
Batch : 111436
Time : 24-MAR-2006 18:10
Cal : 56120449001
MSS : 185457-016
Units : ug/L

PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (100X), 05WS0207

Analyte	MSS Seqnum	Result	Spiked	PDS	%Rec	Limits	Flags
Aluminum	56120449020	17.02	100.0	105.8	89	75-125	
Antimony	56120449020	0.6129	100.0	107.9	107	75-125	
Arsenic	56120449020	0.9884	100.0	96.25	95	75-125	
Beryllium	56120449020	0.1658	100.0	95.66	95	75-125	
Cadmium	56120449020	1.115	100.0	92.45	91	75-125	
Chromium	56120449020	75.08	100.0	186.2	111	75-125	
Cobalt	56120449020	0.2945	100.0	101.2	101	75-125	
Copper	56120449020	1.188	100.0	98.99	98	75-125	
Iron	56120449020	233.4	10000	10950	107	75-125	
Lead	56120449020	ND	100.0	111.7	112	75-125	
Manganese	56120449020	13.05	100.0	117.2	104	75-125	
Molybdenum	56120449020	0.6437	100.0	108.6	108	75-125	
Nickel	56120449020	8.796	100.0	107.9	99	75-125	
Potassium	56120449020	812.9	10000	10670	99	75-125	
Selenium	56120449020	1.480	100.0	81.86	80	75-125	
Silver	56120449020	0.1904	100.0	98.17	98	75-125	
Thallium	56120449027	0.1538	100.0	103.5	103	75-125	
Vanadium	56120449020	0.9009	100.0	109.4	108	75-125	
Zinc	56120449020	2.767	100.0	85.42	83	75-125	

ISTD (ICALBLK c2415003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	988200	821766	-16.84
Scandium	562292	471081	-16.22
Germanium	180440	136868	-24.15
Indium	1368410	982461	-28.20
Bismuth	1333700	847810	-36.43

MISSING READINGS: **BA CA MG NA**

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET05
Seqnum: 56120449022
File : c2415022
IDF : 20.0
Lab ID: 185457-016
Matrix: Filtrate
Batch : 111436
Time : 24-MAR-2006 17:26
Cal : 56120449001
Units : ug/L

Type : PDS
Inst : MET05
Seqnum: 56120449033
File : c2415033
IDF : 20.0
Lab ID: QC332061
Matrix: Filtrate
Batch : 111436
Time : 24-MAR-2006 18:26
Cal : 56120449001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (2000X), 05WS0207

Analyte	MSS	Spiked	PDS	%Rec	Limits	Flags
Aluminum	2.722	5.000	5.120	**48***	75-125	
Antimony	ND	5.000	5.375	108	75-125	
Arsenic	ND	5.000	5.400	108	75-125	
Barium	11.32	5.000	16.05	95	75-125	
Beryllium	ND	5.000	5.060	101	75-125	
Cadmium	ND	5.000	5.200	104	75-125	
Calcium	3979	500.0	4486	101	75-125	:
Chromium	3.563	5.000	8.415	97	75-125	
Cobalt	ND	5.000	4.832	97	75-125	
Copper	ND	5.000	5.075	102	75-125	
Iron	10.61	500.0	480.3	94	75-125	
Lead	ND	5.000	4.714	94	75-125	
Magnesium	13090	500.0	13640	109	75-125	:
Manganese	0.6510	5.000	5.490	97	75-125	
Molybdenum	ND	5.000	4.912	98	75-125	
Nickel	0.4432	5.000	5.500	101	75-125	
Potassium	42.55	500.0	582.0	108	75-125	
Selenium	ND	5.000	5.255	105	75-125	
Silver	ND	5.000	5.130	103	75-125	
Sodium	10420	500.0	11180	151	75-125	:
Thallium	0.1451	5.000	4.411	85	75-125	
Vanadium	ND	5.000	4.703	94	75-125	
Zinc	ND	5.000	5.775	116	75-125	

ISTD (ICALBLK c2415003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	988200	952804	-3.58
Scandium	562292	517857	-7.90
Germanium	180440	166433	-7.76
Indium	1368410	1203865	-12.02
Bismuth	1333700	1172058	-12.12

:=recovery not meaningful

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET05
Seqnum: 56129329098
File : c3019098
IDF : 1.0
Lab ID: 185586-015
Matrix: Filtrate
Batch : 111759
Time : 31-MAR-2006 04:33
Cal : 56129329001
Units : ug/L

Type : PDS
Inst : MET05
Seqnum: 56129329102
File : c3019102
IDF : 1.0
Lab ID: QC333340
Matrix: Filtrate
Batch : 111759
Time : 31-MAR-2006 04:56
Cal : 56129329001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (100X), 05WS0207

Analyte	MSS	Spiked	PDS	%Rec	Limits	Flags
Aluminum	1.827	100.0	111.1	109	75-125	
Antimony	ND	100.0	101.9	102	75-125	
Arsenic	0.9672	100.0	99.99	99	75-125	
Barium	71.85	100.0	183.3	111	75-125	
Beryllium	ND	100.0	94.72	95	75-125	
Cadmium	1.091	100.0	111.0	110	75-125	
Chromium	18.99	100.0	119.9	101	75-125	
Cobalt	0.07802	100.0	99.31	99	75-125	
Copper	0.9220	100.0	100.8	100	75-125	
Iron	73.97	10000	9221	91	75-125	
Lead	ND	100.0	104.4	104	75-125	
Manganese	0.8605	100.0	95.39	95	75-125	
Molybdenum	0.1698	100.0	105.0	105	75-125	
Nickel	5.110	100.0	103.5	98	75-125	
Potassium	852.1	10000	10890	100	75-125	
Selenium	ND	100.0	102.1	102	75-125	
Silver	ND	100.0	120.9	121	75-125	
Thallium	0.9371	100.0	98.95	98	75-125	
Vanadium	10.37	100.0	112.4	102	75-125	
Zinc	2.831	100.0	98.38	96	75-125	

ISTD (ICALBLK c3019003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	265097	184346	-30.46
Scandium	311197	199339	-35.94
Germanium	72358	44880	-37.98
Indium	387021	258562	-33.19
Bismuth	340664	262591	-22.92

MISSING READINGS: **CA MG NA**

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : PDS
Inst : MET05
Seqnum: 56129329111
File : c3019111
IDF : 20.0
Lab ID: QC333340
Matrix: Filtrate
Batch : 111759
Time : 31-MAR-2006 05:47
Cal : 56129329001
MSS : 185586-015
Units : ug/L

PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (2000X), 05WS0207

Analyte	MSS Seqnum	Result	Spiked	PDS	%Rec	Limits	Flags
Aluminum	56129329098	1.827	5.000	2.648	**51***	75-125	
Antimony	56129329098	ND	5.000	5.019	100	75-125	
Arsenic	56129329098	0.9672	5.000	5.151	102	75-125	
Barium	56129329098	71.85	5.000	9.086	110	75-125	
Beryllium	56129329098	ND	5.000	4.761	95	75-125	>c- **b***
Cadmium	56129329098	1.091	5.000	5.883	117	75-125	
Calcium	56129329107	2177	500.0	2643	93	75-125	:
Chromium	56129329098	18.99	5.000	6.149	104	75-125	
Cobalt	56129329098	0.07802	5.000	5.279	106	75-125	
Copper	56129329098	0.9220	5.000	5.371	106	75-125	
Iron	56129329098	73.97	500.0	460.2	91	75-125	
Lead	56129329098	ND	5.000	4.801	96	75-125	
Magnesium	56129329107	2685	500.0	3139	91	75-125	:
Manganese	56129329098	0.8605	5.000	4.961	98	75-125	
Molybdenum	56129329098	0.1698	5.000	5.192	104	75-125	
Nickel	56129329098	5.110	5.000	5.355	102	75-125	
Potassium	56129329098	852.1	500.0	591.9	110	75-125	
Selenium	56129329098	ND	5.000	4.813	96	75-125	
Silver	56129329098	ND	5.000	6.407	**128***	75-125	
Thallium	56129329098	0.9371	5.000	4.798	95	75-125	
Vanadium	56129329098	10.37	5.000	5.699	104	75-125	
Zinc	56129329098	2.831	5.000	5.096	99	75-125	

ISTD (ICALBLK c3019003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	265097	200061	-24.53
Scandium	311197	207653	-33.27
Germanium	72358	47688	-34.09
Indium	387021	287818	-25.63
Bismuth	340664	294444	-13.57

MISSING READINGS: **NA**

=low bias :=recovery not meaningful >=closing b=noncompliant c=CCV

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : PDS
Inst : MET05
Seqnum: 56130353024
File : c3112024
IDF : 20.0
Lab ID: QC333340
Matrix: Filtrate
Batch : 111759
Time : 31-MAR-2006 14:43
Cal : 56130353001
MSS : 185586-015
Units : ug/L

PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (2000X), 05WS0207

Analyte	MSS Seqnum	Result	Spiked	PDS	%Rec	Limits	Flags
Aluminum	56129329098	1.827	5.000	5.292	104	75-125	
Antimony	56129329098	ND	5.000	5.179	104	75-125	
Arsenic	56129329098	0.9672	5.000	5.040	100	75-125	
Barium	56129329098	71.85	5.000	8.274	94	75-125	
Beryllium	56129329098	ND	5.000	4.936	99	75-125	
Cadmium	56129329098	1.091	5.000	5.221	103	75-125	
Calcium	56129329107	2177	500.0	3004	166	75-125	:
Chromium	56129329098	18.99	5.000	6.013	101	75-125	
Cobalt	56129329098	0.07802	5.000	4.932	99	75-125	
Copper	56129329098	0.9220	5.000	5.841	116	75-125	
Iron	56129329098	73.97	500.0	497.8	99	75-125	
Lead	56129329098	ND	5.000	4.681	94	75-125	
Magnesium	56129329107	2685	500.0	3091	81	75-125	:
Manganese	56129329098	0.8605	5.000	4.950	98	75-125	
Molybdenum	56129329098	0.1698	5.000	4.811	96	75-125	
Nickel	56129329098	5.110	5.000	5.596	107	75-125	
Potassium	56129329098	852.1	500.0	553.9	102	75-125	
Selenium	56129329098	ND	5.000	5.411	108	75-125	
Silver	56129329098	ND	5.000	5.961	119	75-125	
Sodium	56130353020	3134	500.0	3581	89	75-125	:
Thallium	56129329098	0.9371	5.000	4.278	85	75-125	
Vanadium	56129329098	10.37	5.000	5.253	95	75-125	
Zinc	56129329098	2.831	5.000	5.941	116	75-125	

ISTD (ICALBLK c3112003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	922427	1041884	12.95
Scandium	383420	423481	10.45
Germanium	54518	59113	8.43
Indium	304020	313489	3.11
Bismuth	209143	217847	4.16

:=recovery not meaningful

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56120449001
Units : ug/L

Date : 24-MAR-2006 15:41
X Axis : R

Reviewer: ---
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	c2415004	56120449004	CS1	24-MAR-2006 15:46	S2889
L2	c2415005	56120449005	CS2	24-MAR-2006 15:52	S2890
L3	c2415006	56120449006	CS3	24-MAR-2006 15:57	S2891
L4	c2415007	56120449007	CS4	24-MAR-2006 16:03	S2892
L5	c2415008	56120449008	CS5	24-MAR-2006 16:09	S2886
L6	c2415009	56120449009	CS6	24-MAR-2006 16:14	S2887

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		1.8605	1.1946	0.4907	0.4094	0.4097	BLNK	-1.6870	2.46573		0.8730	1.000	0.995	
Antimony	0.1780	0.1434	0.1257	0.1098	0.1029	0.1019	BLNK	-0.1664	9.80139		0.1269	1.000	0.995	
Arsenic		0.2728	0.2620	0.2056	0.2010	0.1990	BLNK	-0.1452	5.01868		0.2281	1.000	0.995	
Barium	0.0583	0.0574	0.0479	0.0444	0.0446	0.0453	BLNK	-0.0450	22.1682		0.0496	1.000	0.995	
Beryllium	0.0661	0.0593	0.0607	0.0585	0.0590	0.0588	BLNK	-0.0029	17.0061		0.0604	1.000	0.995	
Cadmium	0.5468	0.4191	0.3292	0.2506	0.2312	0.2236	BLNK	-0.3575	4.45075		0.3334	1.000	0.995	
Calcium		0.0121	0.0104	0.0088	0.0089	0.0088	BLNK	-15.467	113.905		0.0098	1.000	0.995	
Chromium		2.3744	1.7967	1.1375	1.0851	1.0705	BLNK	-0.6189	0.93502		1.4929	1.000	0.995	521
Cobalt	1.6505	1.5760	1.5236	1.4844	1.4616	1.4745	BLNK	-0.0218	0.67948		1.5284	1.000	0.995	
Copper		0.7293	0.6445	0.4408	0.3931	0.3808	BLNK	-0.3058	2.61347		0.5177	1.000	0.995	
Iron		0.0506	0.0428	0.0355	0.0358	0.0349	BLNK	-21.353	28.5285		0.0399	1.000	0.995	
Lead	0.5069	0.5076	0.4807	0.4612	0.4729	0.4717	BLNK	-0.0318	2.11926		0.4835	1.000	0.995	
Magnesium		0.0517	0.0515	0.0513	0.0513	0.0492	BLNK	-1.4769	20.1503		0.0510	1.000	0.995	
Manganese	2.2757	2.0345	1.9020	1.6279	1.5790	1.6056	BLNK	-0.0591	0.62511		1.8374	1.000	0.995	
Molybdenum		0.4345	0.4191	0.4041	0.4047	0.4013	BLNK	-0.0797	2.48909		0.4127	1.000	0.995	
Nickel	0.6375	0.4675	0.4141	0.3391	0.3194	0.3117	BLNK	-0.1830	3.19569		0.4149	1.000	0.995	
Potassium		0.6418	0.4774	0.3254	0.3000	0.2894	BLNK	-57.377	3.44186		0.4068	1.000	0.995	
Selenium		0.0460	0.0348	0.0223	0.0207	0.0199	BLNK	-0.4990	50.0105		0.0287	1.000	0.995	
Silver	1.1672	1.0952	1.1200	1.0903	1.0505	1.0242	BLNK	-0.0141	0.97135		1.0912	1.000	0.995	
Sodium		0.6166	0.6212	0.5282	0.5092	0.4996	BLNK	-10.059	1.99501		0.5550	1.000	0.995	
Thallium		0.3411	0.3263	0.3031	0.3335	0.3464	BLNK	-0.0388	2.91011		0.3301	1.000	0.995	
Vanadium		1.3448	1.3988	1.2138	1.2039	1.2363	BLNK	-0.1996	0.81418		1.2795	1.000	0.995	
Zinc		1.2572	0.8374	0.3067	0.2462	0.2333	BLNK	-1.6768	4.28153		0.5762	0.999	0.995	

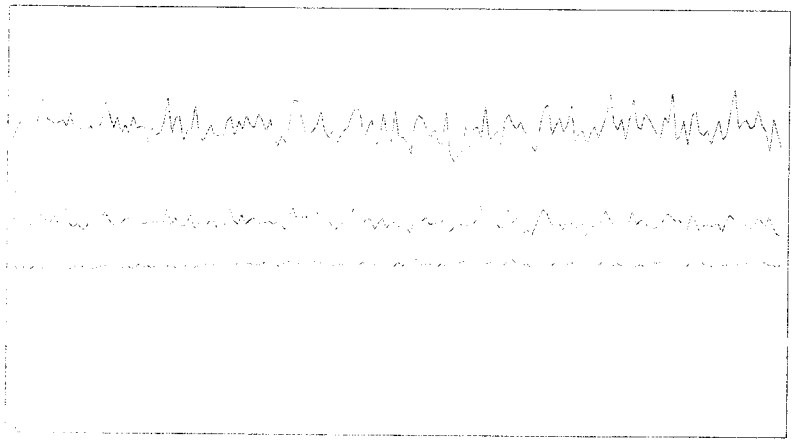
BLNK=Y=aX+[blank]

Instrument amount = a0 + response * a1 + response^2 * a2

56120449001

Tune Report

Tune File : ATUNE.U



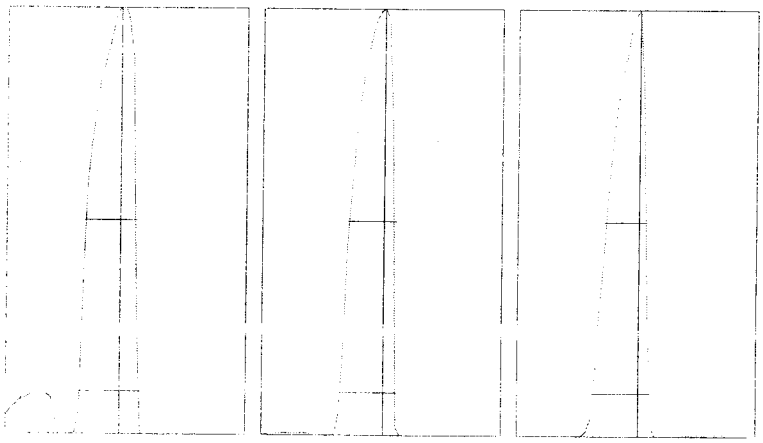
m/z:	7	89	205
Range:	20,000	50,000	50,000
Count:	13,609	23,577	20,220
Mean:	14435.6	24900.6	19936.6
RSD%:	4.15	2.70	1.95
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.45%
Doubly Charged:	70/140	0.87%

Background:

m/z:	7	89	205
Cps:	3.6	2.7	3.4



m/z:	7	89	205
Height:	14,342	24,842	20,339
Axis:	6.95	89.05	205.05
W-50%:	0.65	0.60	0.55
W-10%:	0.7500	0.700	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===			===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1210	W	Extract 1:	-156.2 V	AMU Gain:	129
RF Matching:	1.62	V	Extract 2:	-96 V	AMU Offset:	127
Smpl Depth:	7	mm	Einzel 1,3:	-66 V	Axis Gain:	0.9998
Torch-H:	0	mm	Einzel 2:	16 V	Axis Offset:	-0.07
Torch-V:	0.4	mm	Omega Bias:	-33 V	QP Bias:	1.5 V
Carrier Gas:	1.14	L/min	Omega (+):	1 V		
Makeup Gas:	0	L/min	Omega (-):	-6.7 V	===Detector Parameters===	
Optional Gas:	---	%	QP Focus:	7.1 V	Discriminator:	8.7 mV
PeriPump1:	0.1	rps	Plate Bias:	-12.5 V	Analog HV:	1760 V
PeriPump2:	---	rps			Pulse HV:	1200 V
S/C Temp:	2	degC				

Generated : Mar 24, 2006 09:36:10
Printed : Mar 24, 2006 09:36:18

P/A Factor Tuning Report

Acquired:Mar 24 2006 09:58 am

Mass[amu]	Element	P/A Factor
6	Li	0.069890
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.091599
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.096622
45	Sc	0.093601
51	V	0.096393
52	Cr	0.098039
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.100615
57	Fe	0.103163
59	Co	0.102826
60	Ni	Sensitivity too low
63	Cu	0.103753
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.103865
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.109250
111	Cd	Sensitivity too low
114	Cd	0.107106
115	In	0.111014
118	(In)	Sensitivity too high
121	Sb	0.107751
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.115795
166	Er	Sensitivity too low

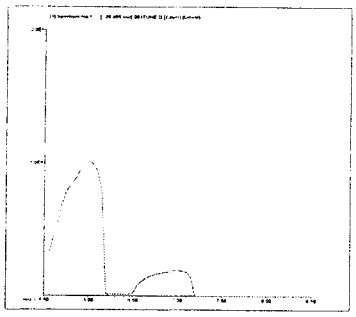
```
205        Tl    0.119230
206      (Pb)    0.115740
207      (Pb)  Sensitivity too low
208        Pb    0.118111
209        Bi    0.119285

===Detector Parameters===
  Discriminator: 8.7 mV
      Analog HV: 1760 V
       Pulse HV: 1200 V
```

6020 QC Tune Report

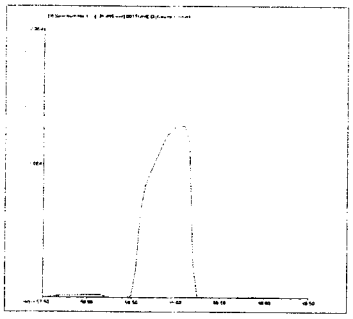
Data File: C:\ICPCHEM\1\DATA\06C2415a.B\001TUNE.D
Date Acquired: Mar 24 2006 03:29 pm
Acq. Method: TN6020.M
Operator:
Sample Name: TUN,S2898
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

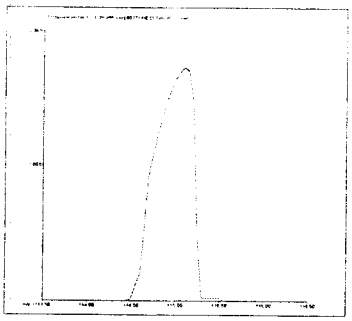
Element	Actual	Required	Flag
7 Li	0.91	5.00	
59 Co	0.65	5.00	
115 In	0.92	5.00	
205 Tl	0.37	5.00	



7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



115 In

Mass Calib.

Actual: 115.10

Required: 114.90 - 115.10

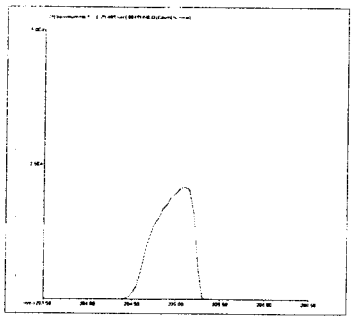
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



205 Tl

Mass Calib.

Actual: 205.10

Required: 204.90 - 205.10

Flag:

Peak Width

Actual: 0.65

Required: 0.90

Flag:

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2415A.B\002BLNK.D\002BLNK.D#
Date Acquired:	Mar 24 2006 03:35 pm
Acq. Method:	60200111.M
Operator:	
Sample Name:	RINSE
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update:	Mar 24 2006 11:26 am
Sample Type:	6-Blank
Dilution Factor:	1.00

QC Elements

Element	Corr. Conc.		RSD(%)	Raw Conc.	High Limit	Flag
9 Be	-0.001015	ppb	161.38	-0.001015	1.00	
23 Na	-1.738	ppb	92.98	-1.738	1.00	
26 Mg	-0.8588	ppb	49.65	-0.8588	1.00	
27 Al	-1.781	ppb	24.15	-1.781	1.00	
39 K	0.3404	ppb	385.72	0.3404	1.00	
44 Ca	-6.799	ppb	22.49	-6.799	1.00	
51 V	0.03006	ppb	56.52	0.03006	1.00	
52 Cr	-0.06791	ppb	29.58	-0.06791	1.00	
55 Mn	-0.003013	ppb	187.09	-0.003013	1.00	
57 Fe	2.081	ppb	32.68	2.081	1.00	
59 Co	-0.00569	ppb	52.51	-0.00569	1.00	
60 Ni	0.01019	ppb	89.53	0.01019	1.00	
65 Cu	-0.1327	ppb	25.97	-0.1327	1.00	
66 Zn	-0.02679	ppb	304.18	-0.02679	1.00	
75 As	-0.2177	ppb	66.61	-0.2177	1.00	
82 Se	-0.1506	ppb	182.20	-0.1506	1.00	
95 Mo	0.02955	ppb	8.31	0.02955	1.00	
109 Ag	-0.006384	ppb	7.97	-0.006384	1.00	
111 Cd	0.05344	ppb	67.35	0.05344	1.00	
121 Sb	0.08967	ppb	16.39	0.08967	1.00	
137 Ba	-0.0177	ppb	20.78	-0.0177	1.00	
205 Tl	0.009955	ppb	109.49	0.009955	1.00	
208 Pb	-0.002155	ppb	105.01	-0.002155	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	988486.00	0.86	---	#VALUE!	80 - 120	
45 Sc	582573.75	2.56	---	#VALUE!	80 - 120	
72 Ge	181827.56	0.52	---	#VALUE!	80 - 120	
115 In	1400126.40	0.48	---	#VALUE!	80 - 120	
209 Bi	1349633.10	0.73	---	#VALUE!	80 - 120	

ISTD Ref File : ---

1 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes:	Fail
ISTD:	Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2415a.B\003CAL
Date Acquired:	Mar 24 2006 03:41 pm
Operator:	
Sample Name:	std-blk
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 24 2006 11:26 am
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	988199.50	A	16580.00	1.68
9	Be	3.33	P	3.33	99.99
23	Na	56710.00	P	10620.00	18.73
26	Mg	824.44	P	365.40	44.32
27	Al	7695.56	P	3062.00	39.79
39	K	187473.30	P	1880.00	1.00
44	Ca	1527.23	P	215.90	14.14
45	Sc	562292.19	P	586.20	0.10
51	V	884.61	P	109.60	12.39
52	Cr	2388.89	P	49.14	2.06
55	Mn	341.11	P	3.85	1.13
57	Fe	2701.11	P	177.70	6.58
59	Co	115.56	P	37.91	32.81
60	Ni	206.67	P	12.02	5.82
65	Cu	422.22	P	30.06	7.12
66	Zn	1413.33	P	56.96	4.03
72	Ge	180440.20	P	158.70	0.09
75	As	104.41	P	105.20	100.75
82	Se	36.00	P	14.34	39.83
95	Mo	115.56	P	33.72	29.18
109	Ag	52.22	P	6.94	13.29
111	Cd	289.93	P	46.06	15.89
115	In	1368410.00	A	7751.00	0.57
121	Sb	464.44	P	30.97	6.67
137	Ba	55.56	P	7.70	13.86
205	Tl	355.56	P	8.39	2.36
208	Pb	400.00	P	52.39	13.10
209	Bi	1333700.00	A	8509.00	0.64

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2415a.B\004CALI.D\004CALI.D#
Date Acquired:	Mar 24 2006 03:46 pm
Operator:	
Sample Name:	CS1,S2889
Misc Info:	
Vial Number:	1102
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 24 2006 03:42 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	988584.31	A	14250.00	1.44
9 Be	326.67	P	21.86	6.69
23 Na	202917.80	P	2848.00	1.40
26 Mg	14972.22	P	65.52	0.44
27 Al	10315.56	P	1244.00	12.06
39 K	272992.19	P	890.10	0.33
44 Ca	4467.14	P	154.80	3.47
45 Sc	554806.63	P	3427.00	0.62
51 V	1905.36	P	245.40	12.88
52 Cr	3317.78	P	66.78	2.01
55 Mn	2034.44	P	56.80	2.79
57 Fe	5817.78	P	117.10	2.01
59 Co	1475.56	P	71.21	4.83
60 Ni	570.00	P	43.33	7.60
65 Cu	977.71	P	21.17	2.17
66 Zn	1907.70	P	62.03	3.25
72 Ge	178790.91	P	886.40	0.50
75 As	251.72	P	27.27	10.83
82 Se	55.78	P	9.44	16.92
95 Mo	477.78	P	37.47	7.84
109 Ag	1043.33	P	35.12	3.37
111 Cd	488.90	P	35.84	7.33
115 In	1341015.00	A	6675.00	0.50
121 Sb	1193.33	P	51.75	4.34
137 Ba	391.11	P	10.72	2.74
205 Tl	2348.89	P	38.63	1.64
208 Pb	3326.67	P	105.90	3.18
209 Bi	1312303.00	A	12540.00	0.96

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	988584.31	1.44	988199.56	100.0	80 - 120	

45	Sc	554806.63	0.62	562292.19	98.7	80 - 120
72	Ge	178790.89	0.50	180440.23	99.1	80 - 120
115	In	1341014.50	0.50	1368409.90	98.0	80 - 120
209	Bi	1312303.50	0.96	1333700.40	98.4	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2415a.B\005CALI.D\005CALI.D#
Date Acquired: Mar 24 2006 03:52 pm
Operator:
Sample Name: CS2,S2890
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 24 2006 03:48 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	983386.19	A	20930.00	2.13
9	Be	582.22	P	26.74	4.59
23	Na	341757.81	P	1515.00	0.44
26	Mg	28675.56	P	189.60	0.66
27	Al	10312.22	P	184.10	1.79
39	K	355686.69	P	1252.00	0.35
44	Ca	6701.30	P	215.50	3.22
45	Sc	554336.88	M	9431.00	1.70
51	V	2396.94	P	53.61	2.24
52	Cr	4232.22	P	26.94	0.64
55	Mn	3626.67	P	78.81	2.17
57	Fe	9024.44	P	150.20	1.66
59	Co	2808.89	P	123.60	4.40
60	Ni	833.33	P	49.10	5.89
65	Cu	1299.88	P	78.10	6.01
66	Zn	2240.97	P	59.66	2.66
72	Ge	178246.41	P	1375.00	0.77
75	As	486.77	P	125.60	25.80
82	Se	82.00	P	11.10	13.54
95	Mo	774.44	P	15.75	2.03
109	Ag	1952.22	P	67.52	3.46
111	Cd	746.83	P	54.02	7.23
115	In	1332685.00	A	9908.00	0.74
121	Sb	1911.11	P	45.01	2.36
137	Ba	764.44	P	25.24	3.30
205	Tl	4411.11	P	140.00	3.17
208	Pb	6561.11	P	36.57	0.56
209	Bi	1292847.00	A	16910.00	1.31

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	983386.19	2.13	988199.56	99.5	80 - 120	

45	Sc	554336.88	1.70	562292.19	98.6	80 - 120
72	Ge	178246.44	0.77	180440.23	98.8	80 - 120
115	In	1332685.30	0.74	1368409.90	97.4	80 - 120
209	Bi	1292846.90	1.31	1333700.40	96.9	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**

ISTD: **Pass**

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2415a.B\006CALI.D\006CALI.D#
Date Acquired:	Mar 24 2006 03:57 pm
Operator:	
Sample Name:	CS3,S2891
Misc Info:	
Vial Number:	1104
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 24 2006 03:54 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	985103.31	A	8703.00	0.88
9 Be	1195.56	P	36.72	3.07
23 Na	688407.38	A	3988.00	0.58
26 Mg	57041.11	P	294.30	0.52
27 Al	13238.89	P	252.20	1.91
39 K	529102.19	P	763.10	0.14
44 Ca	11580.14	P	164.50	1.42
45 Sc	554111.13	P	3908.00	0.71
51 V	5051.42	P	449.10	8.89
52 Cr	6488.89	P	302.00	4.65
55 Mn	6868.89	P	209.40	3.05
57 Fe	15464.44	P	82.28	0.53
59 Co	5502.22	P	218.30	3.97
60 Ni	1495.56	P	40.05	2.68
65 Cu	2327.53	P	133.70	5.74
66 Zn	3024.16	P	25.46	0.84
72 Ge	180561.80	P	500.50	0.28
75 As	946.08	P	64.35	6.80
82 Se	125.78	P	16.52	13.13
95 Mo	1513.33	P	64.38	4.25
109 Ag	4044.44	P	156.90	3.88
111 Cd	1188.60	P	74.62	6.28
115 In	1334888.00	A	4909.00	0.37
121 Sb	3355.55	P	105.70	3.15
137 Ba	1280.00	P	47.26	3.69
205 Tl	8486.67	P	141.80	1.67
208 Pb	12502.22	P	158.10	1.26
209 Bi	1300466.00	A	6211.00	0.48

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	985103.31	0.88	988199.56	99.7	80 - 120	

45	Sc	554111.06	0.71	562292.19	98.5	80 - 120
72	Ge	180561.77	0.28	180440.23	100.1	80 - 120
115	In	1334887.50	0.37	1368409.90	97.6	80 - 120
209	Bi	1300466.30	0.48	1333700.40	97.5	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2415a.B\007CALI.D\007CALI.D#
Date Acquired:	Mar 24 2006 04:03 pm
Operator:	
Sample Name:	CS4,S2892
Misc Info:	
Vial Number:	1105
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 24 2006 03:59 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	1013057.00	A	4024.00	0.40
9 Be	11861.11	P	195.00	1.64
23 Na	5832080.00	A	6041.00	0.10
26 Mg	566326.63	P	3938.00	0.70
27 Al	54172.22	P	546.60	1.01
39 K	3592013.00	A	32590.00	0.91
44 Ca	97328.51	P	309.90	0.32
45 Sc	552032.19	P	2550.00	0.46
51 V	43931.11	P	1029.00	2.34
52 Cr	41168.89	P	360.30	0.88
55 Mn	58915.55	P	361.00	0.61
57 Fe	128450.00	P	1593.00	1.24
59 Co	53722.22	P	576.60	1.07
60 Ni	12272.22	P	121.60	0.99
65 Cu	15954.22	P	391.80	2.46
66 Zn	11101.61	P	118.60	1.07
72 Ge	180956.00	P	1160.00	0.64
75 As	7441.71	P	66.56	0.89
82 Se	807.56	P	57.47	7.12
95 Mo	14624.44	P	99.13	0.68
109 Ag	39456.67	P	803.00	2.04
111 Cd	9067.72	P	165.20	1.82
115 In	1319021.00	A	9345.00	0.71
121 Sb	28952.22	P	399.00	1.38
137 Ba	11704.44	P	38.63	0.33
205 Tl	78612.22	P	2265.00	2.88
208 Pb	119622.20	P	721.70	0.60
209 Bi	1297106.00	A	16000.00	1.23

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1013056.60	0.40	988199.56	102.5	80 - 120	

45	Sc	552032.19	0.46	562292.19	98.2	80 - 120
72	Ge	180956.00	0.64	180440.23	100.3	80 - 120
115	In	1319021.30	0.71	1368409.90	96.4	80 - 120
209	Bi	1297106.00	1.23	1333700.40	97.3	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2415a.B\008CALI.D\008CALI.D#
Date Acquired:	Mar 24 2006 04:09 pm
Operator:	
Sample Name:	CS5,S2886
Misc Info:	
Vial Number:	1106
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 24 2006 04:05 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	997164.81	A	7526.00	0.75
9 Be	117577.80	P	984.80	0.84
23 Na	55690040.00	A	264000.00	0.47
26 Mg	5606693.00	A	73650.00	1.31
27 Al	447697.69	P	891.30	0.20
39 K	32802080.00	A	398000.00	1.21
44 Ca	972650.31	A	8226.00	0.85
45 Sc	546950.00	P	9618.00	1.76
51 V	429694.59	P	3616.00	0.84
52 Cr	387310.00	P	2856.00	0.74
55 Mn	563601.13	P	5703.00	1.01
57 Fe	1277209.00	A	14640.00	1.15
59 Co	521696.59	P	6118.00	1.17
60 Ni	113996.70	P	552.30	0.48
65 Cu	140295.70	P	1531.00	1.09
66 Zn	87865.30	P	1053.00	1.20
72 Ge	178472.91	P	2302.00	1.29
75 As	71733.88	P	463.20	0.65
82 Se	7376.44	P	94.50	1.28
95 Mo	144456.70	P	655.50	0.45
109 Ag	374954.41	P	2785.00	0.74
111 Cd	82518.75	P	744.80	0.90
115 In	1276593.00	A	7314.00	0.57
121 Sb	262628.91	P	1502.00	0.57
137 Ba	113897.80	P	1607.00	1.41
205 Tl	814328.88	P	8399.00	1.03
208 Pb	1154651.00	P	12360.00	1.07
209 Bi	1220765.00	A	9341.00	0.77

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	997164.75	0.75	988199.56	100.9	80 - 120	

45	Sc	546950.00	1.76	562292.19	97.3	80 - 120
72	Ge	178472.89	1.29	180440.23	98.9	80 - 120
115	In	1276592.60	0.57	1368409.90	93.3	80 - 120
209	Bi	1220764.50	0.77	1333700.40	91.5	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2415a.B\009CALI.D\009CALI.D#
Date Acquired:	Mar 24 2006 04:14 pm
Operator:	
Sample Name:	CS6,S2887
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 24 2006 04:10 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	969750.81	A	13270.00	1.37
9 Be	227935.50	P	2011.00	0.88
23 Na	109416300.00	A	1294000.00	1.18
26 Mg	10779680.00	A	214700.00	1.99
27 Al	897228.88	A	10640.00	1.19
39 K	63376860.00	A	47640.00	0.08
44 Ca	1918831.00	A	26230.00	1.37
45 Sc	547532.19	P	4418.00	0.81
51 V	878675.19	A	3703.00	0.42
52 Cr	760898.69	M	5958.00	0.78
55 Mn	1141159.00	A	20010.00	1.75
57 Fe	2482416.00	A	19690.00	0.79
59 Co	1047991.00	A	8862.00	0.85
60 Ni	221525.50	P	186.80	0.08
65 Cu	270644.00	P	960.70	0.35
66 Zn	165786.09	P	126.90	0.08
72 Ge	177688.00	P	688.10	0.39
75 As	141459.20	P	636.00	0.45
82 Se	14143.11	P	72.27	0.51
95 Mo	285186.69	P	476.60	0.17
109 Ag	727951.13	P	1026.00	0.14
111 Cd	158931.50	P	617.80	0.39
115 In	1239353.00	A	6776.00	0.55
121 Sb	505296.59	P	1214.00	0.24
137 Ba	224328.91	P	625.60	0.28
205 Tl	1646884.00	A	9703.00	0.59
208 Pb	2243062.00	A	8326.00	0.37
209 Bi	1188714.00	A	4321.00	0.36

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	969750.81	1.37	988199.56	98.1	80 - 120	

45	Sc	547532.19	0.81	562292.19	97.4	80 -	120
72	Ge	177688.00	0.39	180440.23	98.5	80 -	120
115	In	1239352.60	0.55	1368409.90	90.6	80 -	120
209	Bi	1188713.90	0.36	1333700.40	89.1	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2415a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449010 File : c2415010 Time : 24-MAR-2006 16:19
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2895

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	0.8730	0.4231	100.0	102.6	ug/L	3	10	
Antimony	0.1269	0.1074	100.0	105.1	ug/L	5	10	
Arsenic	0.2281	0.2052	100.0	102.8	ug/L	3	10	
Barium	0.0496	0.0462	100.0	102.3	ug/L	2	10	
Beryllium	0.0604	0.0600	100.0	102.0	ug/L	2	10	
Cadmium	0.3334	0.2329	100.0	103.3	ug/L	3	10	
Calcium	0.0098	0.0093	10000	10530	ug/L	5	10	
Chromium	1.4929	1.0962	100.0	101.9	ug/L	2	10	
Cobalt	1.5284	1.4811	100.0	100.6	ug/L	1	10	
Copper	0.5177	0.3977	100.0	103.6	ug/L	4	10	
Iron	0.0399	0.0366	10000	10410	ug/L	4	10	
Lead	0.4835	0.4753	100.0	100.7	ug/L	1	10	
Magnesium	0.0510	0.0521	10000	10500	ug/L	5	10	
Manganese	1.8374	1.5975	100.0	99.80	ug/L	0	10	
Molybdenum	0.4127	0.4099	100.0	101.9	ug/L	2	10	
Nickel	0.4149	0.3241	100.0	103.4	ug/L	3	10	
Potassium	0.4068	0.3080	10000	10540	ug/L	5	10	
Selenium	0.0287	0.0209	100.0	104.2	ug/L	4	10	
Silver	1.0912	1.0643	100.0	103.4	ug/L	3	10	
Sodium	0.5550	0.5247	10000	10460	ug/L	5	10	
Thallium	0.3301	0.3378	100.0	98.26	ug/L	-2	10	
Vanadium	1.2795	1.2206	100.0	99.18	ug/L	-1	10	
Zinc	0.5762	0.2498	100.0	105.3	ug/L	5	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	958842	-2.97
Scandium	562292	528272	-6.05
Germanium	180440	174083	-3.52
Indium	1368410	1218569	-10.95
Bismuth	1333700	1195887	-10.33

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449024 File : c2415024 Time : 24-MAR-2006 17:37
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.4129	150.0	151.0	ug/L	1	10	
Antimony	0.1269	0.0990	150.0	145.4	ug/L	-3	10	
Arsenic	0.2281	0.2000	150.0	150.4	ug/L	0	10	
Barium	0.0496	0.0446	150.0	148.2	ug/L	-1	10	
Beryllium	0.0604	0.0589	150.0	150.1	ug/L	0	10	
Cadmium	0.3334	0.2238	150.0	149.0	ug/L	-1	10	
Calcium	0.0098	0.0088	15000	14940	ug/L	0	10	
Chromium	1.4929	1.0549	150.0	147.3	ug/L	-2	10	
Cobalt	1.5284	1.4238	150.0	145.1	ug/L	-3	10	
Copper	0.5177	0.3830	150.0	149.8	ug/L	0	10	
Iron	0.0399	0.0346	15000	14780	ug/L	-1	10	
Lead	0.4835	0.4685	150.0	148.9	ug/L	-1	10	
Magnesium	0.0510	0.0498	15000	15070	ug/L	0	10	
Manganese	1.8374	1.5333	150.0	143.7	ug/L	-4	10	
Molybdenum	0.4127	0.3979	150.0	148.5	ug/L	-1	10	
Nickel	0.4149	0.3113	150.0	149.1	ug/L	-1	10	
Potassium	0.4068	0.2962	15000	15230	ug/L	2	10	
Selenium	0.0287	0.0204	150.0	152.6	ug/L	2	10	
Silver	1.0912	1.0203	150.0	148.6	ug/L	-1	10	
Sodium	0.5550	0.5002	15000	14960	ug/L	0	10	
Thallium	0.3301	0.3509	150.0	153.1	ug/L	2	10	
Vanadium	1.2795	1.1809	150.0	144.0	ug/L	-4	10	
Zinc	0.5762	0.2375	150.0	150.8	ug/L	1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	974542	-1.38
Scandium	562292	535254	-4.81
Germanium	180440	170147	-5.70
Indium	1368410	1196955	-12.53
Bismuth	1333700	1140941	-14.45

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449039 File : c2415039 Time : 24-MAR-2006 19:00
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.4015	150.0	146.8	ug/L	-2	10	
Antimony	0.1269	0.1007	150.0	147.8	ug/L	-1	10	
Arsenic	0.2281	0.2009	150.0	151.1	ug/L	1	10	
Barium	0.0496	0.0443	150.0	147.2	ug/L	-2	10	
Beryllium	0.0604	0.0584	150.0	149.1	ug/L	-1	10	
Cadmium	0.3334	0.2271	150.0	151.3	ug/L	1	10	
Calcium	0.0098	0.0089	15000	15250	ug/L	2	10	
Chromium	1.4929	1.0600	150.0	148.1	ug/L	-1	10	
Cobalt	1.5284	1.4254	150.0	145.3	ug/L	-3	10	
Copper	0.5177	0.3797	150.0	148.5	ug/L	-1	10	
Iron	0.0399	0.0347	15000	14850	ug/L	-1	10	
Lead	0.4835	0.4635	150.0	147.3	ug/L	-2	10	
Magnesium	0.0510	0.0503	15000	15200	ug/L	1	10	
Manganese	1.8374	1.5394	150.0	144.3	ug/L	-4	10	
Molybdenum	0.4127	0.4016	150.0	149.8	ug/L	0	10	
Nickel	0.4149	0.3094	150.0	148.1	ug/L	-1	10	
Potassium	0.4068	0.3002	15000.	15440	ug/L	3	10	
Selenium	0.0287	0.0204	150.0	152.2	ug/L	1	10	
Silver	1.0912	1.0257	150.0	149.4	ug/L	0	10	
Sodium	0.5550	0.5050	15000	15100	ug/L	1	10	
Thallium	0.3301	0.3447	150.0	150.4	ug/L	0	10	
Vanadium	1.2795	1.1903	150.0	145.2	ug/L	-3	10	
Zinc	0.5762	0.2357	150.0	149.7	ug/L	0	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	953180	-3.54
Scandium	562292	509681	-9.36
Germanium	180440	163182	-9.56
Indium	1368410	1155967	-15.52
Bismuth	1333700	1119152	-16.09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449053 File : c2415053 Time : 24-MAR-2006 20:18
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.4036	150.0	147.6	ug/L	-2	10	
Antimony	0.1269	0.1014	150.0	149.0	ug/L	-1	10	
Arsenic	0.2281	0.1989	150.0	149.6	ug/L	0	10	
Barium	0.0496	0.0447	150.0	148.7	ug/L	-1	10	
Beryllium	0.0604	0.0579	150.0	147.6	ug/L	-2	10	
Cadmium	0.3334	0.2257	150.0	150.3	ug/L	0	10	
Calcium	0.0098	0.0090	15000	15330	ug/L	2	10	
Chromium	1.4929	1.0611	150.0	148.2	ug/L	-1	10	
Cobalt	1.5284	1.4204	150.0	144.8	ug/L	-3	10	
Copper	0.5177	0.3793	150.0	148.4	ug/L	-1	10	
Iron	0.0399	0.0351	15000	15010	ug/L	0	10	
Lead	0.4835	0.4670	150.0	148.4	ug/L	-1	10	
Magnesium	0.0510	0.0501	15000	15140	ug/L	1	10	
Manganese	1.8374	1.5439	150.0	144.7	ug/L	-4	10	
Molybdenum	0.4127	0.4017	150.0	149.9	ug/L	0	10	
Nickel	0.4149	0.3087	150.0	147.8	ug/L	-1	10	
Potassium	0.4068	0.2959	15000	15220	ug/L	1	10	
Selenium	0.0287	0.0201	150.0	150.3	ug/L	0	10	
Silver	1.0912	1.0297	150.0	150.0	ug/L	0	10	
Sodium	0.5550	0.5104	15000	15260	ug/L	2	10	
Thallium	0.3301	0.3480	150.0	151.9	ug/L	1	10	
Vanadium	1.2795	1.1920	150.0	145.4	ug/L	-3	10	
Zinc	0.5762	0.2370	150.0	150.5	ug/L	0	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	938741	-5.00
Scandium	562292	499396	-11.19
Germanium	180440	159991	-11.33
Indium	1368410	1139949	-16.70
Bismuth	1333700	1112291	-16.60

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449069 File : c2415069 Time : 24-MAR-2006 21:46
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3905	150.0	142.7	ug/L	-5	10	
Antimony	0.1269	0.1011	150.0	148.5	ug/L	-1	10	
Arsenic	0.2281	0.2001	150.0	150.5	ug/L	0	10	
Barium	0.0496	0.0442	150.0	147.0	ug/L	-2	10	
Beryllium	0.0604	0.0589	150.0	150.2	ug/L	0	10	
Cadmium	0.3334	0.2261	150.0	150.6	ug/L	0	10	
Calcium	0.0098	0.0089	15000	15210	ug/L	1	10	
Chromium	1.4929	1.0480	150.0	146.4	ug/L	-2	10	
Cobalt	1.5284	1.4064	150.0	143.3	ug/L	-4	10	
Copper	0.5177	0.3769	150.0	147.4	ug/L	-2	10	
Iron	0.0399	0.0347	15000	14840	ug/L	-1	10	
Lead	0.4835	0.4577	150.0	145.5	ug/L	-3	10	
Magnesium	0.0510	0.0493	15000	14910	ug/L	-1	10	
Manganese	1.8374	1.5318	150.0	143.6	ug/L	-4	10	
Molybdenum	0.4127	0.4024	150.0	150.2	ug/L	0	10	
Nickel	0.4149	0.3087	150.0	147.8	ug/L	-1	10	
Potassium	0.4068	0.2976	15000	15310	ug/L	2	10	
Selenium	0.0287	0.0204	150.0	152.2	ug/L	1	10	
Silver	1.0912	1.0257	150.0	149.4	ug/L	0	10	
Sodium	0.5550	0.4976	15000	14880	ug/L	-1	10	
Thallium	0.3301	0.3441	150.0	150.2	ug/L	0	10	
Vanadium	1.2795	1.1868	150.0	144.7	ug/L	-4	10	
Zinc	0.5762	0.2343	150.0	148.8	ug/L	-1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	867540	-12.21
Scandium	562292	477594	-15.06
Germanium	180440	152734	-15.35
Indium	1368410	1090823	-20.29
Bismuth	1333700	1069936	-19.78

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449083 File : c2415083 Time : 24-MAR-2006 23:04
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3890	150.0	142.2	ug/L	-5	10	
Antimony	0.1269	0.1006	150.0	147.7	ug/L	-2	10	
Arsenic	0.2281	0.2005	150.0	150.8	ug/L	1	10	
Barium	0.0496	0.0442	150.0	146.9	ug/L	-2	10	
Beryllium	0.0604	0.0578	150.0	147.5	ug/L	-2	10	
Cadmium	0.3334	0.2266	150.0	151.0	ug/L	1	10	
Calcium	0.0098	0.0088	15000	14980	ug/L	0	10	
Chromium	1.4929	1.0475	150.0	146.3	ug/L	-2	10	
Cobalt	1.5284	1.4041	150.0	143.1	ug/L	-5	10	
Copper	0.5177	0.3773	150.0	147.6	ug/L	-2	10	
Iron	0.0399	0.0349	15000	14930	ug/L	0	10	
Lead	0.4835	0.4601	150.0	146.2	ug/L	-3	10	
Magnesium	0.0510	0.0489	15000	14770	ug/L	-2	10	
Manganese	1.8374	1.5247	150.0	142.9	ug/L	-5	10	
Molybdenum	0.4127	0.4026	150.0	150.2	ug/L	0	10	
Nickel	0.4149	0.3090	150.0	147.9	ug/L	-1	10	
Potassium	0.4068	0.2930	15000	15070	ug/L	0	10	
Selenium	0.0287	0.0205	150.0	153.0	ug/L	2	10	
Silver	1.0912	1.0286	150.0	149.9	ug/L	0	10	
Sodium	0.5550	0.4899	15000	14650	ug/L	-2	10	
Thallium	0.3301	0.3434	150.0	149.9	ug/L	0	10	
Vanadium	1.2795	1.1846	150.0	144.5	ug/L	-4	10	
Zinc	0.5762	0.2341	150.0	148.7	ug/L	-1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	864072	-12.56
Scandium	562292	469597	-16.49
Germanium	180440	149631	-17.07
Indium	1368410	1083146	-20.85
Bismuth	1333700	1052352	-21.10

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449097 File : c2415097 Time : 25-MAR-2006 00:22
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3725	150.0	136.1	ug/L	-9	10	
Antimony	0.1269	0.0981	150.0	144.0	ug/L	-4	10	
Arsenic	0.2281	0.1963	150.0	147.7	ug/L	-2	10	
Barium	0.0496	0.0433	150.0	144.0	ug/L	-4	10	
Beryllium	0.0604	0.0564	150.0	143.9	ug/L	-4	10	
Cadmium	0.3334	0.2281	150.0	152.0	ug/L	1	10	
Calcium	0.0098	0.0087	15000	14830	ug/L	-1	10	
Chromium	1.4929	1.0532	150.0	147.1	ug/L	-2	10	
Cobalt	1.5284	1.4082	150.0	143.5	ug/L	-4	10	
Copper	0.5177	0.3704	150.0	144.9	ug/L	-3	10	
Iron	0.0399	0.0350	15000	14960	ug/L	0	10	
Lead	0.4835	0.4510	150.0	143.3	ug/L	-4	10	
Magnesium	0.0510	0.0470	15000	14210	ug/L	-5	10	
Manganese	1.8374	1.5455	150.0	144.9	ug/L	-3	10	
Molybdenum	0.4127	0.3955	150.0	147.6	ug/L	-2	10	
Nickel	0.4149	0.3040	150.0	145.5	ug/L	-3	10	
Potassium	0.4068	0.2874	15000	14780	ug/L	-1	10	
Selenium	0.0287	0.0202	150.0	150.8	ug/L	1	10	
Silver	1.0912	1.0216	150.0	148.8	ug/L	-1	10	
Sodium	0.5550	0.4786	15000	14310	ug/L	-5	10	
Thallium	0.3301	0.3353	150.0	146.3	ug/L	-2	10	
Vanadium	1.2795	1.1797	150.0	143.9	ug/L	-4	10	
Zinc	0.5762	0.2328	150.0	147.8	ug/L	-1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	850311	-13.95
Scandium	562292	475066	-15.51
Germanium	180440	150588	-16.54
Indium	1368410	1119011	-18.23
Bismuth	1333700	1086373	-18.54

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449107 File : c2415107 Time : 25-MAR-2006 01:18
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3939	150.0	144.0	ug/L	-4	10	
Antimony	0.1269	0.1003	150.0	147.3	ug/L	-2	10	
Arsenic	0.2281	0.1975	150.0	148.5	ug/L	-1	10	
Barium	0.0496	0.0443	150.0	147.4	ug/L	-2	10	
Beryllium	0.0604	0.0568	150.0	144.8	ug/L	-3	10	
Cadmium	0.3334	0.2281	150.0	151.9	ug/L	1	10	
Calcium	0.0098	0.0089	15000	15180	ug/L	1	10	
Chromium	1.4929	1.0646	150.0	148.7	ug/L	-1	10	
Cobalt	1.5284	1.4165	150.0	144.4	ug/L	-4	10	
Copper	0.5177	0.3741	150.0	146.3	ug/L	-2	10	
Iron	0.0399	0.0350	15000	14970	ug/L	0	10	
Lead	0.4835	0.4613	150.0	146.6	ug/L	-2	10	
Magnesium	0.0510	0.0486	15000	14680	ug/L	-2	10	
Manganese	1.8374	1.5548	150.0	145.7	ug/L	-3	10	
Molybdenum	0.4127	0.4007	150.0	149.5	ug/L	0	10	
Nickel	0.4149	0.3090	150.0	147.9	ug/L	-1	10	
Potassium	0.4068	0.2900	15000	14910	ug/L	-1	10	
Selenium	0.0287	0.0205	150.0	153.2	ug/L	2	10	
Silver	1.0912	1.0347	150.0	150.7	ug/L	0	10	
Sodium	0.5550	0.4900	15000	14650	ug/L	-2	10	
Thallium	0.3301	0.3535	150.0	154.3	ug/L	3	10	
Vanadium	1.2795	1.1929	150.0	145.5	ug/L	-3	10	
Zinc	0.5762	0.2366	150.0	150.3	ug/L	0	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	839407	-15.06
Scandium	562292	458026	-18.54
Germanium	180440	146831	-18.63
Indium	1368410	1077183	-21.28
Bismuth	1333700	1042410	-21.84

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449121 File : c2415121 Time : 25-MAR-2006 02:35
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3883	150.0	141.9	ug/L	-5	10	
Antimony	0.1269	0.1005	150.0	147.6	ug/L	-2	10	
Arsenic	0.2281	0.2013	150.0	151.4	ug/L	1	10	
Barium	0.0496	0.0444	150.0	147.6	ug/L	-2	10	
Beryllium	0.0604	0.0572	150.0	145.8	ug/L	-3	10	
Cadmium	0.3334	0.2289	150.0	152.4	ug/L	2	10	
Calcium	0.0098	0.0090	15000	15330	ug/L	2	10	
Chromium	1.4929	1.0671	150.0	149.0	ug/L	-1	10	
Cobalt	1.5284	1.4221	150.0	144.9	ug/L	-3	10	
Copper	0.5177	0.3755	150.0	146.9	ug/L	-2	10	
Iron	0.0399	0.0353	15000	15110	ug/L	1	10	
Lead	0.4835	0.4629	150.0	147.1	ug/L	-2	10	
Magnesium	0.0510	0.0490	15000	14810	ug/L	-1	10	
Manganese	1.8374	1.5638	150.0	146.6	ug/L	-2	10	
Molybdenum	0.4127	0.4017	150.0	149.9	ug/L	0	10	
Nickel	0.4149	0.3077	150.0	147.3	ug/L	-2	10	
Potassium	0.4068	0.2977	15000	15310	ug/L	2	10	
Selenium	0.0287	0.0208	150.0	155.6	ug/L	4	10	
Silver	1.0912	1.0362	150.0	151.0	ug/L	1	10	
Sodium	0.5550	0.4969	15000	14860	ug/L	-1	10	
Thallium	0.3301	0.3483	150.0	152.0	ug/L	1	10	
Vanadium	1.2795	1.2049	150.0	147.0	ug/L	-2	10	
Zinc	0.5762	0.2378	150.0	151.1	ug/L	1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	806356	-18.40
Scandium	562292	440073	-21.74
Germanium	180440	142136	-21.23
Indium	1368410	1039855	-24.01
Bismuth	1333700	1008839	-24.36

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449133 File : c2415133 Time : 25-MAR-2006 03:42
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.4002	150.0	146.3	ug/L	-2	10	
Antimony	0.1269	0.1023	150.0	150.3	ug/L	0	10	
Arsenic	0.2281	0.2028	150.0	152.5	ug/L	2	10	
Barium	0.0496	0.0449	150.0	149.4	ug/L	0	10	
Beryllium	0.0604	0.0581	150.0	148.2	ug/L	-1	10	
Cadmium	0.3334	0.2332	150.0	155.3	ug/L	4	10	
Calcium	0.0098	0.0091	15000	15600	ug/L	4	10	
Chromium	1.4929	1.0854	150.0	151.6	ug/L	1	10	
Cobalt	1.5284	1.4355	150.0	146.3	ug/L	-2	10	
Copper	0.5177	0.3813	150.0	149.2	ug/L	-1	10	
Iron	0.0399	0.0356	15000	15210	ug/L	1	10	
Lead	0.4835	0.4738	150.0	150.6	ug/L	0	10	
Magnesium	0.0510	0.0499	15000	15090	ug/L	1	10	
Manganese	1.8374	1.5904	150.0	149.1	ug/L	-1	10	
Molybdenum	0.4127	0.4100	150.0	153.0	ug/L	2	10	
Nickel	0.4149	0.3117	150.0	149.2	ug/L	-1	10	
Potassium	0.4068	0.2973	15000	15290	ug/L	2	10	
Selenium	0.0287	0.0209	150.0	156.3	ug/L	4	10	
Silver	1.0912	1.0499	150.0	153.0	ug/L	2	10	
Sodium	0.5550	0.4993	15000	14930	ug/L	0	10	
Thallium	0.3301	0.3542	150.0	154.6	ug/L	3	10	
Vanadium	1.2795	1.2217	150.0	149.0	ug/L	-1	10	
Zinc	0.5762	0.2396	150.0	152.2	ug/L	1	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	813402	-17.69
Scandium	562292	443206	-21.18
Germanium	180440	140547	-22.11
Indium	1368410	1028681	-24.83
Bismuth	1333700	979894	-26.53

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449148 File : c2415148 Time : 25-MAR-2006 05:06
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3917	150.0	143.2	ug/L	-5	10	
Antimony	0.1269	0.0989	150.0	145.3	ug/L	-3	10	
Arsenic	0.2281	0.1986	150.0	149.4	ug/L	0	10	
Barium	0.0496	0.0436	150.0	144.8	ug/L	-3	10	
Beryllium	0.0604	0.0570	150.0	145.3	ug/L	-3	10	
Cadmium	0.3334	0.2187	150.0	145.6	ug/L	-3	10	
Calcium	0.0098	0.0089	15000	15150	ug/L	1	10	
Chromium	1.4929	1.0417	150.0	145.5	ug/L	-3	10	
Cobalt	1.5284	1.3878	150.0	141.4	ug/L	-6	10	
Copper	0.5177	0.3702	150.0	144.8	ug/L	-3	10	
Iron	0.0399	0.0343	15000	14670	ug/L	-2	10	
Lead	0.4835	0.4544	150.0	144.4	ug/L	-4	10	
Magnesium	0.0510	0.0482	15000	14580	ug/L	-3	10	
Manganese	1.8374	1.5022	150.0	140.8	ug/L	-6	10	
Molybdenum	0.4127	0.3937	150.0	146.9	ug/L	-2	10	
Nickel	0.4149	0.3045	150.0	145.8	ug/L	-3	10	
Potassium	0.4068	0.2967	15000	15260	ug/L	2	10	
Selenium	0.0287	0.0202	150.0	151.2	ug/L	1	10	
Silver	1.0912	1.0035	150.0	146.2	ug/L	-3	10	
Sodium	0.5550	0.4853	15000	14510	ug/L	-3	10	
Thallium	0.3301	0.3384	150.0	147.7	ug/L	-2	10	
Vanadium	1.2795	1.1779	150.0	143.7	ug/L	-4	10	
Zinc	0.5762	0.2275	150.0	144.4	ug/L	-4	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	898686	-9.06
Scandium	562292	474239	-15.66
Germanium	180440	147941	-18.01
Indium	1368410	1054434	-22.94
Bismuth	1333700	995910	-25.33

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449159 File : c2415159 Time : 25-MAR-2006 06:07
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3671	150.0	134.1	ug/L	**-11**	10	c- ***
Antimony	0.1269	0.0996	150.0	146.3	ug/L	-2	10	
Arsenic	0.2281	0.1981	150.0	149.0	ug/L	-1	10	
Barium	0.0496	0.0438	150.0	145.5	ug/L	-3	10	
Beryllium	0.0604	0.0577	150.0	147.1	ug/L	-2	10	
Cadmium	0.3334	0.2272	150.0	151.3	ug/L	1	10	
Calcium	0.0098	0.0086	15000	14640	ug/L	-2	10	
Chromium	1.4929	1.0198	150.0	142.4	ug/L	-5	10	
Cobalt	1.5284	1.3679	150.0	139.4	ug/L	-7	10	
Copper	0.5177	0.3644	150.0	142.5	ug/L	-5	10	
Iron	0.0399	0.0340	15000	14550	ug/L	-3	10	
Lead	0.4835	0.4497	150.0	142.9	ug/L	-5	10	
Magnesium	0.0510	0.0461	15000	13920	ug/L	-7	10	
Manganese	1.8374	1.5032	150.0	140.9	ug/L	-6	10	
Molybdenum	0.4127	0.4016	150.0	149.9	ug/L	0	10	
Nickel	0.4149	0.2968	150.0	142.1	ug/L	-5	10	
Potassium	0.4068	0.2839	15000	14600	ug/L	-3	10	
Selenium	0.0287	0.0204	150.0	152.9	ug/L	2	10	
Silver	1.0912	1.0218	150.0	148.9	ug/L	-1	10	
Sodium	0.5550	0.4623	15000	13820	ug/L	-8	10	
Thallium	0.3301	0.3353	150.0	146.3	ug/L	-2	10	
Vanadium	1.2795	1.1558	150.0	141.0	ug/L	-6	10	
Zinc	0.5762	0.2281	150.0	144.8	ug/L	-3	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	836473	-15.35
Scandium	562292	493671	-12.20
Germanium	180440	155900	-13.60
Indium	1368410	1140911	-16.63
Bismuth	1333700	1105121	-17.14

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449174 File : c2415174 Time : 25-MAR-2006 07:30
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3870	150.0	141.5	ug/L	-6	10	
Antimony	0.1269	0.0985	150.0	144.7	ug/L	-4	10	
Arsenic	0.2281	0.1978	150.0	148.8	ug/L	-1	10	
Barium	0.0496	0.0429	150.0	142.5	ug/L	-5	10	
Beryllium	0.0604	0.0570	150.0	145.5	ug/L	-3	10	
Cadmium	0.3334	0.2174	150.0	144.8	ug/L	-3	10	
Calcium	0.0098	0.0086	15000	14760	ug/L	-2	10	
Chromium	1.4929	1.0685	150.0	149.2	ug/L	-1	10	
Cobalt	1.5284	1.4105	150.0	143.7	ug/L	-4	10	
Copper	0.5177	0.3731	150.0	145.9	ug/L	-3	10	
Iron	0.0399	0.0347	15000	14830	ug/L	-1	10	
Lead	0.4835	0.4532	150.0	144.1	ug/L	-4	10	
Magnesium	0.0510	0.0478	15000	14460	ug/L	-4	10	
Manganese	1.8374	1.5356	150.0	143.9	ug/L	-4	10	
Molybdenum	0.4127	0.3941	150.0	147.1	ug/L	-2	10	
Nickel	0.4149	0.3076	150.0	147.3	ug/L	-2	10	
Potassium	0.4068	0.2871	15000	14760	ug/L	-2	10	
Selenium	0.0287	0.0200	150.0	149.5	ug/L	0	10	
Silver	1.0912	0.9902	150.0	144.3	ug/L	-4	10	
Sodium	0.5550	0.4764	15000	14240	ug/L	-5	10	
Thallium	0.3301	0.3207	150.0	140.0	ug/L	-7	10	
Vanadium	1.2795	1.2039	150.0	146.8	ug/L	-2	10	
Zinc	0.5762	0.2293	150.0	145.6	ug/L	-3	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	892339	-9.70
Scandium	562292	468084	-16.75
Germanium	180440	138839	-23.06
Indium	1368410	979740	-28.40
Bismuth	1333700	906100	-32.06

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449185 File : c2415185 Time : 25-MAR-2006 08:33
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.8730	0.3405	150.0	124.3	ug/L	**-17**	10	c- i+ ***
Antimony	0.1269	0.0964	150.0	141.6	ug/L	-6	10	
Arsenic	0.2281	0.1995	150.0	150.0	ug/L	0	10	
Barium	0.0496	0.0409	150.0	135.8	ug/L	-9	10	
Beryllium	0.0604	0.0601	150.0	153.4	ug/L	2	10	
Cadmium	0.3334	0.2280	150.0	151.9	ug/L	1	10	
Calcium	0.0098	0.0086	15000	14630	ug/L	-2	10	i+
Chromium	1.4929	1.1388	150.0	159.1	ug/L	6	10	
Cobalt	1.5284	1.4081	150.0	143.5	ug/L	-4	10	
Copper	0.5177	0.3658	150.0	143.1	ug/L	-5	10	
Iron	0.0399	0.0347	15000	14830	ug/L	-1	10	
Lead	0.4835	0.4466	150.0	141.9	ug/L	-5	10	
Magnesium	0.0510	0.0410	15000	12400	ug/L	**-17**	10	c- i+ ***
Manganese	1.8374	1.6208	150.0	151.9	ug/L	1	10	
Molybdenum	0.4127	0.4100	150.0	153.0	ug/L	2	10	
Nickel	0.4149	0.2971	150.0	142.2	ug/L	-5	10	
Potassium	0.4068	0.2821	15000	14510	ug/L	-3	10	i+
Selenium	0.0287	0.0207	150.0	154.7	ug/L	3	10	
Silver	1.0912	1.0584	150.0	154.2	ug/L	3	10	
Sodium	0.5550	0.3972	15000	11880	ug/L	**-21**	10	c- i+ ***
Thallium	0.3301	0.3256	150.0	142.1	ug/L	-5	10	
Vanadium	1.2795	1.3269	150.0	161.9	ug/L	8	10	
Zinc	0.5762	0.2281	150.0	144.8	ug/L	-3	10	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	1069484	8.23
Scandium	562292	756141	**34.47 ***
Germanium	180440	185899	3.03
Indium	1368410	1355459	-0.95
Bismuth	1333700	1186577	-11.03

+=high bias -=low bias c=CCV i=ISTD failure

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449012 File : c2415012 Time : 24-MAR-2006 16:30
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	0.2605	0.2500	0.03394	ug/L	ib ***
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	[0.04645]	0.2500	0.04566	ug/L	!ib
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.02192]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.07448]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	[0.2087]	1.000	0.09577	ug/L	!ib

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	969137	-1.93
Scandium	562292	523398	-6.92
Germanium	180440	172708	-4.29
Indium	1368410	1267032	-7.41
Bismuth	1333700	1243505	-6.76

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449041 File : c2415041 Time : 24-MAR-2006 19:11
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1722]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	[0.04493]	0.5000	0.04426	ug/L	!ib
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.08621]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	942974	-4.58
Scandium	562292	497013	-11.61
Germanium	180440	160729	-10.92
Indium	1368410	1193739	-12.76
Bismuth	1333700	1163252	-12.78

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449055 File : c2415055 Time : 24-MAR-2006 20:29
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1501]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.03973]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	948372	-4.03
Scandium	562292	501028	-10.90
Germanium	180440	161896	-10.28
Indium	1368410	1226800	-10.35
Bismuth	1333700	1216616	-8.78

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449071 File : c2415071 Time : 24-MAR-2006 21:57
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1124]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.2096]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2627]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1469]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	892991	-9.63
Scandium	562292	474552	-15.60
Germanium	180440	152380	-15.55
Indium	1368410	1132829	-17.22
Bismuth	1333700	1123713	-15.74

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449085 File : c2415085 Time : 24-MAR-2006 23:15
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.09912]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1488]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1119]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	872491	-11.71
Scandium	562292	466362	-17.06
Germanium	180440	149948	-16.90
Indium	1368410	1134348	-17.10
Bismuth	1333700	1121464	-15.91

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449099 File : c2415099 Time : 25-MAR-2006 00:34
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1144]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.05505]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	839745	-15.02
Scandium	562292	456637	-18.79
Germanium	180440	148479	-17.71
Indium	1368410	1142762	-16.49
Bismuth	1333700	1144155	-14.21

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449109 File : c2415109 Time : 25-MAR-2006 01:29
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1195]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1052]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.007220]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.01906]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2311]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	841646	-14.83
Scandium	562292	456716	-18.78
Germanium	180440	146645	-18.73
Indium	1368410	1137654	-16.86
Bismuth	1333700	1126462	-15.54

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449123 File : c2415123 Time : 25-MAR-2006 02:46
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1115]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.008805]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.03841]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1190]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	830886	-15.92
Scandium	562292	449947	-19.98
Germanium	180440	144623	-19.85
Indium	1368410	1113418	-18.63
Bismuth	1333700	1102799	-17.31

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449135 File : c2415135 Time : 25-MAR-2006 03:53
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1473]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1323]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01136]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.06042]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2067]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.07285]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	841360	-14.86
Scandium	562292	445097	-20.84
Germanium	180440	143634	-20.40
Indium	1368410	1086631	-20.59
Bismuth	1333700	1083950	-18.73

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449150 File : c2415150 Time : 25-MAR-2006 05:17
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.07915]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.007527]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.03594]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.01483]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.05427]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	928026	-6.09
Scandium	562292	470981	-16.24
Germanium	180440	147653	-18.17
Indium	1368410	1106829	-19.12
Bismuth	1333700	1054733	-20.92

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449161 File : c2415161 Time : 25-MAR-2006 06:18
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.08556]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.01170]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.009293]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.02352]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.04556]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	838678	-15.13
Scandium	562292	505026	-10.18
Germanium	180440	161662	-10.41
Indium	1368410	1282761	-6.26
Bismuth	1333700	1249274	-6.33

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449176 File : c2415176 Time : 25-MAR-2006 07:41
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.09663]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.2578]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.008511]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.1183]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.04145]	0.2500	0.03982	ug/L	!ib
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2884]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.04804]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	877911	-11.16
Scandium	562292	451821	-19.65
Germanium	180440	137616	-23.73
Indium	1368410	1006582	-26.44
Bismuth	1333700	945762	-29.09

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449187 File : c2415187 Time : 25-MAR-2006 08:44
Cal : 56120449001 Caldate: 24-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.07775]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.006321]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.02567]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.03935]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	867621	-12.20
Scandium	562292	468086	-16.75
Germanium	180440	141351	-21.66
Indium	1368410	1068398	-21.92
Bismuth	1333700	1040296	-22.00

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CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449013 File : c2415013 Time : 24-MAR-2006 16:36
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.628	0.2500	ug/L	
Arsenic	0.6180	0.5000	ug/L	
Barium	0.9755	0.2500	ug/L	
Beryllium	[0.02031]	0.2500	ug/L	
Cadmium	[0.2247]	0.2500	ug/L	
Chromium	1.583	0.5000	ug/L	
Cobalt	2.963	0.2500	ug/L	
Copper	1.898	0.5000	ug/L	
Lead	1.286	0.2500	ug/L	
Manganese	1.091	0.2500	ug/L	
Nickel	1.635	0.2500	ug/L	
Selenium	[0.3064]	0.5000	ug/L	
Silver	[0.1484]	0.2500	ug/L	
Thallium	[0.1047]	0.5000	ug/L	
Vanadium	[0.1847]	1.000	ug/L	
Zinc	2.174	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	85760	ug/L	86
Calcium	300000	291300	ug/L	97
Iron	250000	262300	ug/L	105
Magnesium	100000	90810	ug/L	91
Molybdenum	2000	2215	ug/L	111
Potassium	100000	91870	ug/L	92
Sodium	250000	229400	ug/L	92

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	779542	-21.11
Scandium	562292	491304	-12.62
Germanium	180440	146225	-18.96
Indium	1368410	1095335	-19.96
Bismuth	1333700	938748	-29.61

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449014 File : c2415014 Time : 24-MAR-2006 16:41
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	81420	ug/L	-19		
Arsenic	100.0	95.70	ug/L	-4	20	
Cadmium	100.0	91.22	ug/L	-9	20	
Calcium	300000	290600	ug/L	-3		
Chromium	200.0	217.6	ug/L	9	20	
Cobalt	200.0	209.5	ug/L	5	20	
Copper	200.0	181.4	ug/L	-9	20	
Iron	250000	263500	ug/L	5		
Magnesium	100000	86490	ug/L	-14		
Manganese	200.0	222.3	ug/L	11	20	
Molybdenum	2000	2189	ug/L	9		
Nickel	200.0	192.6	ug/L	-4	20	
Potassium	100000	89750	ug/L	-10		
Selenium	100.0	87.46	ug/L	-13	20	
Silver	50.00	47.12	ug/L	-6	20	
Sodium	250000	220400	ug/L	-12		
Vanadium	200.0	227.4	ug/L	14	20	
Zinc	100.0	90.57	ug/L	-9	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	491567	-12.58
Germanium	180440	144551	-19.89

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449056 File : c2415056 Time : 24-MAR-2006 20:34
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.333	0.2500	ug/L	
Arsenic	0.7648	0.5000	ug/L	
Barium	0.9834	0.2500	ug/L	
Beryllium	[0.01236]	0.2500	ug/L	
Cadmium	[0.1918]	0.2500	ug/L	
Chromium	1.467	0.5000	ug/L	
Cobalt	2.837	0.2500	ug/L	
Copper	1.800	0.5000	ug/L	
Lead	1.307	0.2500	ug/L	
Manganese	1.013	0.2500	ug/L	
Nickel	1.565	0.2500	ug/L	
Selenium	[0.1911]	0.5000	ug/L	
Silver	[0.1340]	0.2500	ug/L	
Thallium	[0.06724]	0.5000	ug/L	
Vanadium	[0.1649]	1.000	ug/L	
Zinc	2.011	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	85760	ug/L	86
Calcium	300000	284700	ug/L	95
Iron	250000	247600	ug/L	99
Magnesium	100000	90640	ug/L	91
Molybdenum	2000	2176	ug/L	109
Potassium	100000	92900	ug/L	93
Sodium	250000	226200	ug/L	90

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	754441	-23.65
Scandium	562292	444889	-20.88
Germanium	180440	133804	-25.85
Indium	1368410	996236	-27.20
Bismuth	1333700	855786	-35.83

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449057 File : c2415057 Time : 24-MAR-2006 20:40
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	81230	ug/L	-19		
Arsenic	100.0	91.39	ug/L	-9	20	
Cadmium	100.0	86.66	ug/L	-13	20	
Calcium	300000	279400	ug/L	-7		
Chromium	200.0	200.7	ug/L	0	20	
Cobalt	200.0	187.8	ug/L	-6	20	
Copper	200.0	171.1	ug/L	-14	20	
Iron	250000	244000	ug/L	-2		
Magnesium	100000	85230	ug/L	-15		
Manganese	200.0	206.9	ug/L	3	20	
Molybdenum	2000	2126	ug/L	6		
Nickel	200.0	181.6	ug/L	-9	20	
Potassium	100000	88390	ug/L	-12		
Selenium	100.0	85.02	ug/L	-15	20	
Silver	50.00	44.61	ug/L	-11	20	
Sodium	250000	216700	ug/L	-13		
Vanadium	200.0	201.6	ug/L	1	20	
Zinc	100.0	85.22	ug/L	-15	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	446714	-20.55
Germanium	180440	133306	-26.12

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449137 File : c2415137 Time : 25-MAR-2006 04:05
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.347	0.2500	ug/L	
Arsenic	[0.3882]	0.5000	ug/L	
Barium	1.062	0.2500	ug/L	
Beryllium	[0.01946]	0.2500	ug/L	
Cadmium	[0.08500]	0.2500	ug/L	
Chromium	1.613	0.5000	ug/L	
Cobalt	2.924	0.2500	ug/L	
Copper	1.893	0.5000	ug/L	
Lead	1.282	0.2500	ug/L	
Manganese	1.061	0.2500	ug/L	
Nickel	1.579	0.2500	ug/L	
Selenium	[0.2680]	0.5000	ug/L	
Silver	[0.1405]	0.2500	ug/L	
Thallium	[0.1109]	0.5000	ug/L	
Vanadium	[0.2904]	1.000	ug/L	
Zinc	2.062	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	84650	ug/L	85
Calcium	300000	290700	ug/L	97
Iron	250000	248700	ug/L	99
Magnesium	100000	89140	ug/L	89
Molybdenum	2000	2186	ug/L	109
Potassium	100000	93300	ug/L	93
Sodium	250000	223400	ug/L	89

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	674836	-31.71
Scandium	562292	406723	-27.67
Germanium	180440	121976	-32.40
Indium	1368410	887703	-35.13
Bismuth	1333700	772371	-42.09

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449138 File : c2415138 Time : 25-MAR-2006 04:10
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	83500	ug/L	-17		
Arsenic	100.0	93.87	ug/L	-6	20	
Cadmium	100.0	86.67	ug/L	-13	20	
Calcium	300000	289100	ug/L	-4		
Chromium	200.0	203.9	ug/L	2	20	
Cobalt	200.0	190.0	ug/L	-5	20	
Copper	200.0	174.2	ug/L	-13	20	
Iron	250000	246800	ug/L	-1		
Magnesium	100000	87450	ug/L	-13		
Manganese	200.0	203.0	ug/L	2	20	
Molybdenum	2000	2178	ug/L	9		
Nickel	200.0	183.6	ug/L	-8	20	
Potassium	100000	93050	ug/L	-7		
Selenium	100.0	87.45	ug/L	-13	20	
Silver	50.00	44.81	ug/L	-10	20	
Sodium	250000	221000	ug/L	-12		
Vanadium	200.0	205.7	ug/L	3	20	
Zinc	100.0	88.10	ug/L	-12	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	397591	-29.29
Germanium	180440	118801	-34.16

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449162 File : c2415162 Time : 25-MAR-2006 06:24
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.433	0.2500	ug/L	
Arsenic	[0.4828]	0.5000	ug/L	
Barium	1.070	0.2500	ug/L	
Beryllium	[0.005177]	0.2500	ug/L	
Cadmium	[0.1791]	0.2500	ug/L	
Chromium	1.576	0.5000	ug/L	
Cobalt	2.864	0.2500	ug/L	
Copper	1.852	0.5000	ug/L	
Lead	1.309	0.2500	ug/L	
Manganese	1.049	0.2500	ug/L	
Nickel	1.557	0.2500	ug/L	
Selenium	[0]	0.5000	ug/L	
Silver	[0.1414]	0.2500	ug/L	
Thallium	[0.07787]	0.5000	ug/L	
Vanadium	[0.2272]	1.000	ug/L	
Zinc	1.947	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	89740	ug/L	90
Calcium	300000	301200	ug/L	100
Iron	250000	249800	ug/L	100
Magnesium	100000	93590	ug/L	94
Molybdenum	2000	2269	ug/L	113
Potassium	100000	98320	ug/L	98
Sodium	250000	231700	ug/L	93

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	699133	-29.25
Scandium	562292	407378	-27.55
Germanium	180440	123996	-31.28
Indium	1368410	865103	-36.78
Bismuth	1333700	757128	-43.23

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449163 File : c2415163 Time : 25-MAR-2006 06:29
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	88210	ug/L	-12		
Arsenic	100.0	96.77	ug/L	-3	20	
Cadmium	100.0	87.72	ug/L	-12	20	
Calcium	300000	300000	ug/L	0		
Chromium	200.0	208.2	ug/L	4	20	
Cobalt	200.0	196.1	ug/L	-2	20	
Copper	200.0	178.7	ug/L	-11	20	
Iron	250000	252100	ug/L	1		
Magnesium	100000	92600	ug/L	-7		
Manganese	200.0	203.3	ug/L	2	20	
Molybdenum	2000	2250	ug/L	13		
Nickel	200.0	188.9	ug/L	-6	20	
Potassium	100000	97250	ug/L	-3		
Selenium	100.0	90.51	ug/L	-9	20	
Silver	50.00	45.85	ug/L	-8	20	
Sodium	250000	229300	ug/L	-8		
Vanadium	200.0	210.6	ug/L	5	20	
Zinc	100.0	89.56	ug/L	-10	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	392361	-30.22
Germanium	180440	117744	-34.75

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449188 File : c2415188 Time : 25-MAR-2006 08:49
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.452	0.2500	ug/L	
Arsenic	[0.4067]	0.5000	ug/L	
Barium	0.9738	0.2500	ug/L	
Beryllium	[0.01078]	0.2500	ug/L	
Cadmium	[0.09223]	0.2500	ug/L	
Chromium	6.008	0.5000	ug/L	
Cobalt	2.928	0.2500	ug/L	
Copper	1.744	0.5000	ug/L	
Lead	1.288	0.2500	ug/L	
Manganese	1.046	0.2500	ug/L	
Nickel	1.640	0.2500	ug/L	
Selenium	[0.3177]	0.5000	ug/L	
Silver	[0.1392]	0.2500	ug/L	
Thallium	[0.06780]	0.5000	ug/L	
Vanadium	1.467	1.000	ug/L	
Zinc	2.024	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	88210	ug/L	88
Calcium	300000	299100	ug/L	100
Iron	250000	253400	ug/L	101
Magnesium	100000	92340	ug/L	92
Molybdenum	2000	2198	ug/L	110
Potassium	100000	96490	ug/L	96
Sodium	250000	231900	ug/L	93

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Lithium	988200	692065	-29.97
Scandium	562292	386620	-31.24
Germanium	180440	109304	-39.42
Indium	1368410	745623	-45.51
Bismuth	1333700	635742	-52.33

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56120449189 File : c2415189 Time : 25-MAR-2006 08:55
Cal : 56120449001 Caldate: 24-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	83800	ug/L	-16		
Arsenic	100.0	92.87	ug/L	-7	20	
Cadmium	100.0	83.91	ug/L	-16	20	
Calcium	300000	288700	ug/L	-4		
Chromium	200.0	199.4	ug/L	0	20	
Cobalt	200.0	185.5	ug/L	-7	20	
Copper	200.0	172.5	ug/L	-14	20	
Iron	250000	237100	ug/L	-5		
Magnesium	100000	88510	ug/L	-11		
Manganese	200.0	192.1	ug/L	-4	20	
Molybdenum	2000	2179	ug/L	9		
Nickel	200.0	181.3	ug/L	-9	20	
Potassium	100000	95070	ug/L	-5		
Selenium	100.0	86.14	ug/L	-14	20	
Silver	50.00	44.07	ug/L	-12	20	
Sodium	250000	218500	ug/L	-13		
Vanadium	200.0	201.1	ug/L	1	20	
Zinc	100.0	85.66	ug/L	-14	20	

ISTD (ICALBLK c2415003)	ICALBLK Abund	Abund	%Drift
Scandium	562292	374467	-33.40
Germanium	180440	109542	-39.29

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	c2415001	TUN				24-MAR-2006 15:29	1.0	1.0				1	
003	c2415003	ICALBLK	std-blk			24-MAR-2006 15:41	1.0	1.0				2	
004	c2415004	ICAL	CS1			24-MAR-2006 15:46	1.0	1.0				3	
005	c2415005	ICAL	CS2			24-MAR-2006 15:52	1.0	1.0				4	
006	c2415006	ICAL	CS3			24-MAR-2006 15:57	1.0	1.0				5	
007	c2415007	ICAL	CS4			24-MAR-2006 16:03	1.0	1.0				6	
008	c2415008	ICAL	CS5			24-MAR-2006 16:09	1.0	1.0				7	
009	c2415009	ICAL	CS6			24-MAR-2006 16:14	1.0	1.0				8	
010	c2415010	ICV				24-MAR-2006 16:19	1.0	1.0			1	9	
012	c2415012	ICB				24-MAR-2006 16:30	1.0	1.0	1		1	2	
013	c2415013	ICSA				24-MAR-2006 16:36	1.0	1.0			1	10 2	7:CA=291300
014	c2415014	ICSAB				24-MAR-2006 16:41	1.0	1.0			1	11 2	11:CA=290600
017	c2415017	BLANK	QC332055	111436	Filtra	24-MAR-2006 16:58	1.0	1.0			1	2	
018	c2415018	BS	QC332056	111436	Filtra	24-MAR-2006 17:03	1.0	1.0			1	2	
019	c2415019	X	QC332057	111436	Filtra	24-MAR-2006 17:09	1.0	1.0			1	2	
020	c2415020	MSS	185457-016	111436	Filtra	24-MAR-2006 17:14	1.0	1.0	5		1	2	4:MG=2378[illegible]
021	c2415021	SER	QC332060	111436	Filtra	24-MAR-2006 17:20	5.0	1.0		2	1	2	2:MG=49680.0
022	c2415022	MSS	185457-016	111436	Filtra	24-MAR-2006 17:26	20.0	1.0			1	2	
023	c2415023	SER	QC332060	111436	Filtra	24-MAR-2006 17:31	100.0	1.0		1	1	2	
024	c2415024	CCV				24-MAR-2006 17:37	1.0	1.0			1	12 2	
026	c2415026	CCB				24-MAR-2006 17:48	1.0	1.0			1	2	
027	c2415027	MSS	185457-016	111436	Filtra	24-MAR-2006 17:53	1.0	1.0	4		1	2	4:MG=242900
028	c2415028	MS	QC332058	111436	Filtra	24-MAR-2006 17:59	1.0	1.0	1		1	2	4:MG=244700
029	c2415029	MSD	QC332059	111436	Filtra	24-MAR-2006 18:04	1.0	1.0	1		1	2	4:MG=244400
030	c2415030	PDS	QC332061	111436	Filtra	24-MAR-2006 18:10	1.0	1.0			1	13 2	4:MG=254800
031	c2415031	MS	QC332058	111436	Filtra	24-MAR-2006 18:15	20.0	1.0	1	1	1	2	
032	c2415032	MSD	QC332059	111436	Filtra	24-MAR-2006 18:21	20.0	1.0		1	1	2	
033	c2415033	PDS	QC332061	111436	Filtra	24-MAR-2006 18:26	20.0	1.0		1	1	13 2	
035	c2415035	BSD	QC332057	111436	Filtra	24-MAR-2006 18:38	1.0	1.0			1	2	
036	c2415036	SAMPLE	185457-001	111436	Filtra	24-MAR-2006 18:43	1.0	1.0	4		1	2	3:NA=96550.0
037	c2415037	SAMPLE	185457-002	111436	Filtra	24-MAR-2006 18:49	1.0	1.0	2		1	2	2:NA=99150.0

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [illegible] Date: 3/28/6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
039	c2415039	CCV				24-MAR-2006 19:00	1.0	1.0			1	12 2	
041	c2415041	CCB				24-MAR-2006 19:11	1.0	1.0			1	2	
042	c2415042	SAMPLE	185457-005	111436	Filtra	24-MAR-2006 19:16	1.0	1.0	3		1	2	3:MG=277200
043	c2415043	SAMPLE	185457-006	111436	Filtra	24-MAR-2006 19:22	1.0	1.0	5		1	2	5:MG=317500
044	c2415044	SAMPLE	185457-007	111436	Filtra	24-MAR-2006 19:27	1.0	1.0	2		1	2	2:MG=117600
045	c2415045	SAMPLE	185457-008	111436	Filtra	24-MAR-2006 19:33	1.0	1.0	2		1	2	2:MG=139900
046	c2415046	SAMPLE	185457-001	111436	Filtra	24-MAR-2006 19:39	20.0	1.0			1	2	
047	c2415047	SAMPLE	185457-002	111436	Filtra	24-MAR-2006 19:44	20.0	1.0			1	2	
048	c2415048	SAMPLE	185457-005	111436	Filtra	24-MAR-2006 19:50	20.0	1.0			1	2	
049	c2415049	SAMPLE	185457-006	111436	Filtra	24-MAR-2006 19:55	20.0	1.0			1	2	
050	c2415050	SAMPLE	185457-007	111436	Filtra	24-MAR-2006 20:01	20.0	1.0			1	2	
051	c2415051	SAMPLE	185457-008	111436	Filtra	24-MAR-2006 20:07	20.0	1.0			1	2	
053	c2415053	CCV				24-MAR-2006 20:18	1.0	1.0			1	12 2	
055	c2415055	CCB				24-MAR-2006 20:29	1.0	1.0			1	2	
056	c2415056	ICSA				24-MAR-2006 20:34	1.0	1.0			1	10 2	7:CA=284800
057	c2415057	ICSAB				24-MAR-2006 20:40	1.0	1.0			1	11 2	10:CA=279400
060	c2415060	BLANK	QC331831	111388	Filtra	24-MAR-2006 20:56	1.0	1.0			1	2	
061	c2415061	BS	QC331832	111388	Filtra	24-MAR-2006 21:02	1.0	1.0			1	2	
062	c2415062	BSD	QC331833	111388	Filtra	24-MAR-2006 21:07	1.0	1.0			1	2	
064	c2415064	MSS	185408-008	111388	Filtra	24-MAR-2006 21:18	1.0	1.0	1		1	2	1:NA=21510.0
065	c2415065	SER	QC331838	111388	Filtra	24-MAR-2006 21:24	5.0	1.0			1	2	
066	c2415066	MS	QC331836	111388	Filtra	24-MAR-2006 21:29	1.0	1.0	3		1	2	4:NA=32320.0
067	c2415067	MSD	QC331837	111388	Filtra	24-MAR-2006 21:35	1.0	1.0	2		1	2	3:NA=31390.0
069	c2415069	CCV				24-MAR-2006 21:46	1.0	1.0			1	12 2	
071	c2415071	CCB				24-MAR-2006 21:57	1.0	1.0			1	2	
072	c2415072	TUN				24-MAR-2006 22:03	1.0	1.0				1	
073	c2415073	PDS	QC331839	111388	Filtra	24-MAR-2006 22:09	1.0	1.0	2		1	13 2	3:NA=31210.0
074	c2415074	MSS	185408-010	111388	Filtra	24-MAR-2006 22:15	1.0	1.0	2		1	2	2:NA=42630.0
075	c2415075	MS	QC331834	111388	Filtra	24-MAR-2006 22:20	1.0	1.0	1		1	2	3:NA=53420.0
076	c2415076	MSD	QC331835	111388	Filtra	24-MAR-2006 22:26	1.0	1.0	1		1	2	3:NA=52930.0
077	c2415077	MSS	185408-008	111388	Filtra	24-MAR-2006 22:31	20.0	1.0			1	2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [illegible] Date: 3/25/6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
078	c2415078	SER	QC331838	111388	Filtra	24-MAR-2006 22:37	100.0	1.0			1	2	
079	c2415079	MS	QC331836	111388	Filtra	24-MAR-2006 22:42	20.0	1.0			1	2	
080	c2415080	MSD	QC331837	111388	Filtra	24-MAR-2006 22:48	20.0	1.0			1	2	
081	c2415081	PDS	QC331839	111388	Filtra	24-MAR-2006 22:53	20.0	1.0		2	1	13 2	
083	c2415083	CCV				24-MAR-2006 23:04	1.0	1.0			1	12 2	
085	c2415085	CCB				24-MAR-2006 23:15	1.0	1.0			1	2	
086	c2415086	MSS	185408-010	111388	Filtra	24-MAR-2006 23:21	20.0	1.0			1	2	
087	c2415087	MS	QC331834	111388	Filtra	24-MAR-2006 23:27	20.0	1.0			1	2	
088	c2415088	MSD	QC331835	111388	Filtra	24-MAR-2006 23:32	20.0	1.0			1	2	
089	c2415089	SAMPLE	185408-006	111388	Filtra	24-MAR-2006 23:38	1.0	1.0	3		1	2	3:MG=56540.0
090	c2415090	SAMPLE	185408-007	111388	Filtra	24-MAR-2006 23:43	1.0	1.0	3		1	2	3:MG=54910.0
091	c2415091	SAMPLE	185408-009	111388	Filtra	24-MAR-2006 23:49	1.0	1.0	1		1	2	1:NA=20340.0
092	c2415092	SAMPLE	185408-011	111388	Filtra	24-MAR-2006 23:55	1.0	1.0	2		1	2	2:NA=41040.0
093	c2415093	SAMPLE	185408-006	111388	Filtra	25-MAR-2006 00:00	20.0	1.0			1	2	
094	c2415094	SAMPLE	185408-007	111388	Filtra	25-MAR-2006 00:06	20.0	1.0			1	2	
095	c2415095	SAMPLE	185408-009	111388	Filtra	25-MAR-2006 00:11	20.0	1.0			1	2	
097	c2415097	CCV				25-MAR-2006 00:22	1.0	1.0			1	12 2	
099	c2415099	CCB				25-MAR-2006 00:34	1.0	1.0			1	2	
100	c2415100	SAMPLE	185408-011	111388	Filtra	25-MAR-2006 00:39	20.0	1.0			1	2	
101	c2415101	SAMPLE	185463-001	111388	Filtra	25-MAR-2006 00:45	1.0	1.0			1	2	
102	c2415102	SAMPLE	185463-001	111388	Filtra	25-MAR-2006 00:50	20.0	1.0			1	2	
104	c2415104	BLANK	QC331981	111421	Filtra	25-MAR-2006 01:01	1.0	1.0			1	2	
105	c2415105	BS	QC331982	111421	Filtra	25-MAR-2006 01:07	1.0	1.0			1	2	
106	c2415106	BSD	QC331983	111421	Filtra	25-MAR-2006 01:12	1.0	1.0			1	2	
107	c2415107	CCV				25-MAR-2006 01:18	1.0	1.0			1	12 2	
109	c2415109	CCB				25-MAR-2006 01:29	1.0	1.0			1	2	
110	c2415110	MSS	185408-002	111421	Filtra	25-MAR-2006 01:34	1.0	1.0	4		1	2	4:NA=113600
111	c2415111	SER	QC331986	111421	Filtra	25-MAR-2006 01:40	5.0	1.0			1	2	1:NA=22340.0
112	c2415112	MS	QC331984	111421	Filtra	25-MAR-2006 01:45	1.0	1.0			1	2	4:NA=119300
113	c2415113	MSD	QC331985	111421	Filtra	25-MAR-2006 01:51	1.0	1.0			1	2	4:NA=119300
114	c2415114	PDS	QC331987	111421	Filtra	25-MAR-2006 01:56	1.0	1.0			1	13 2	4:NA=116900

581

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: Melvin Date: 3/28/6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
115	c2415115	MSS	185408-002	111421	Filtra	25-MAR-2006 02:02	20.0	1.0			1	2	
116	c2415116	SER	QC331986	111421	Filtra	25-MAR-2006 02:07	100.0	1.0			1	2	
117	c2415117	MS	QC331984	111421	Filtra	25-MAR-2006 02:13	20.0	1.0		1	1	2	
118	c2415118	MSD	QC331985	111421	Filtra	25-MAR-2006 02:19	20.0	1.0		1	1	2	
119	c2415119	PDS	QC331987	111421	Filtra	25-MAR-2006 02:24	20.0	1.0		3	1	13 2	
121	c2415121	CCV				25-MAR-2006 02:35	1.0	1.0			1	12 2	
123	c2415123	CCB				25-MAR-2006 02:46	1.0	1.0			1	2	
124	c2415124	SAMPLE	185408-001	111421	Filtra	25-MAR-2006 02:52	1.0	1.0	4		1	2	4:NA=84720.0
125	c2415125	SAMPLE	185408-003	111421	Filtra	25-MAR-2006 02:57	1.0	1.0	4		1	2	4:NA=86130.0
126	c2415126	SAMPLE	185408-004	111421	Filtra	25-MAR-2006 03:03	1.0	1.0	5		1	2	5:CA=57740.0
127	c2415127	SAMPLE	185408-005	111421	Filtra	25-MAR-2006 03:08	1.0	1.0	5		1	2	5:CA=64560.0
128	c2415128	SAMPLE	185408-001	111421	Filtra	25-MAR-2006 03:14	20.0	1.0			1	2	
129	c2415129	SAMPLE	185408-003	111421	Filtra	25-MAR-2006 03:19	20.0	1.0			1	2	
130	c2415130	SAMPLE	185408-004	111421	Filtra	25-MAR-2006 03:25	20.0	1.0			1	2	
131	c2415131	SAMPLE	185408-005	111421	Filtra	25-MAR-2006 03:30	20.0	1.0			1	2	
133	c2415133	CCV				25-MAR-2006 03:42	1.0	1.0			1	12 2	
135	c2415135	CCB				25-MAR-2006 03:53	1.0	1.0			1	2	
136	c2415136	TUN				25-MAR-2006 03:59	1.0	1.0				1	
137	c2415137	ICSA				25-MAR-2006 04:05	1.0	1.0			1	10 2	7:CA=290700
138	c2415138	ICSAB				25-MAR-2006 04:10	1.0	1.0			1	11 2	10:CA=289100
140	c2415140	SAMPLE	185511-001	111388	Filtra	25-MAR-2006 04:21	1.0	1.0	3		1	2	3:NA=53820.0
141	c2415141	SAMPLE	185511-002	111388	Filtra	25-MAR-2006 04:27	1.0	1.0	3		1	2	3:NA=53130.0
142	c2415142	SAMPLE	185511-009	111388	Filtra	25-MAR-2006 04:32	1.0	1.0	2		1	2	2:NA=191500
143	c2415143	SAMPLE	185511-010	111388	Filtra	25-MAR-2006 04:38	1.0	1.0	4		1	2	4:NA=68870.0
144	c2415144	SAMPLE	185511-011	111388	Filtra	25-MAR-2006 04:43	1.0	1.0	3		1	2	3:MG=40470.0
145	c2415145	SAMPLE	185511-012	111388	Filtra	25-MAR-2006 04:49	1.0	1.0			1	2	
146	c2415146	SAMPLE	185511-013	111388	Filtra	25-MAR-2006 04:55	1.0	1.0			1	2	
148	c2415148	CCV				25-MAR-2006 05:06	1.0	1.0			1	12 2	
150	c2415150	CCB				25-MAR-2006 05:17	1.0	1.0			1	2	
151	c2415151	SAMPLE	185511-001	111388	Filtra	25-MAR-2006 05:22	20.0	1.0	1		1	2	
152	c2415152	SAMPLE	185511-002	111388	Filtra	25-MAR-2006 05:28	20.0	1.0	1		1	2	

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Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: MeWu Date: 3/25/6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56120449 Instrument: MET05 Agilent ICP-MS Begun: 24-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
153	c2415153	SAMPLE	185511-009	111388	Filtra	25-MAR-2006 05:34	20.0	1.0	1		1	2	
154	c2415154	SAMPLE	185511-010	111388	Filtra	25-MAR-2006 05:39	20.0	1.0	1		1	2	
155	c2415155	SAMPLE	185511-011	111388	Filtra	25-MAR-2006 05:45	20.0	1.0	1		1	2	
156	c2415156	SAMPLE	185511-012	111388	Filtra	25-MAR-2006 05:50	20.0	1.0	1		1	2	
157	c2415157	SAMPLE	185511-013	111388	Filtra	25-MAR-2006 05:56	20.0	1.0	1		1	2	
159	c2415159	CCV				25-MAR-2006 06:07	1.0	1.0	1		1	12 2	
161	c2415161	CCB				25-MAR-2006 06:18	1.0	1.0			1	2	
162	c2415162	ICSA				25-MAR-2006 06:24	1.0	1.0			1	10 2	7:CA=301200
163	c2415163	ICSAB				25-MAR-2006 06:29	1.0	1.0			1	11 2	10:CA=300000
165	c2415165	SAMPLE	185586-001	111436	Filtra	25-MAR-2006 06:40	1.0	1.0	5		1	2	4:CA=167100
166	c2415166	SAMPLE	185586-002	111436	Filtra	25-MAR-2006 06:46	1.0	1.0	5		1	2	4:CA=124300
167	c2415167	SAMPLE	185586-003	111436	Filtra	25-MAR-2006 06:51	1.0	1.0	5		1	2	4:CA=124000
168	c2415168	SAMPLE	185586-018	111436	Filtra	25-MAR-2006 06:57	1.0	1.0	4		1	2	3:NA=93550.0
169	c2415169	SAMPLE	185586-019	111436	Filtra	25-MAR-2006 07:02	1.0	1.0	6		1	2	5:NA=56300.0
170	c2415170	SAMPLE	185586-020	111436	Filtra	25-MAR-2006 07:08	1.0	1.0	6		1	2	5:NA=137100
171	c2415171	SAMPLE	185586-021	111436	Filtra	25-MAR-2006 07:13	1.0	1.0	5		1	2	4:CA=52610.0
172	c2415172	SAMPLE	185586-022	111436	Filtra	25-MAR-2006 07:19	1.0	1.0	4		1	2	3:NA=51830.0
174	c2415174	CCV				25-MAR-2006 07:30	1.0	1.0			1	12 2	
176	c2415176	CCB				25-MAR-2006 07:41	1.0	1.0			1	2	
177	c2415177	SAMPLE	185586-023	111436	Filtra	25-MAR-2006 07:47	1.0	1.0	3		1	2	
178	c2415178	SAMPLE	185586-024	111436	Filtra	25-MAR-2006 07:52	1.0	1.0	4		1	2	3:MG=54800.0
179	c2415179	SAMPLE	185586-025	111436	Filtra	25-MAR-2006 07:58	1.0	1.0	3		1	2	2:MG=45530.0
180	c2415180	SAMPLE	185586-026	111436	Filtra	25-MAR-2006 08:03	1.0	1.0	4		1	2	3:NA=53600.0
181	c2415181	SAMPLE	185586-001	111436	Filtra	25-MAR-2006 08:09	20.0	1.0	3		1	2	
182	c2415182	SAMPLE	185586-002	111436	Filtra	25-MAR-2006 08:14	20.0	1.0	3		1	2	
183	c2415183	SAMPLE	185586-003	111436	Filtra	25-MAR-2006 08:20	20.0	1.0	3		1	2	
184	c2415184	SAMPLE	185586-018	111436	Filtra	25-MAR-2006 08:26	20.0	1.0	3		1	2	
185	c2415185	CCV				25-MAR-2006 08:33	1.0	1.0	3		1	12 2	
187	c2415187	CCB				25-MAR-2006 08:44	1.0	1.0			1	2	
188	c2415188	ICSA				25-MAR-2006 08:49	1.0	1.0			1	10 2	7:CA=299100
189	c2415189	ICSAB				25-MAR-2006 08:55	1.0	1.0			1	11 2	8:CA=288700

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [signature] Date: 3/25/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56121987001
Units : ug/L

Date : 25-MAR-2006 17:19
X Axis : R

Reviewer: ---
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	c2517004	56121987004	CS1	25-MAR-2006 17:25	S2889
L2	c2517005	56121987005	CS2	25-MAR-2006 17:30	S2890
L3	c2517006	56121987006	CS3	25-MAR-2006 17:36	S2891
L4	c2517007	56121987007	CS4	25-MAR-2006 17:41	S2892
L5	c2517008	56121987008	CS5	25-MAR-2006 17:47	S2886
L6	c2517009	56121987009	CS6	25-MAR-2006 17:52	S2887

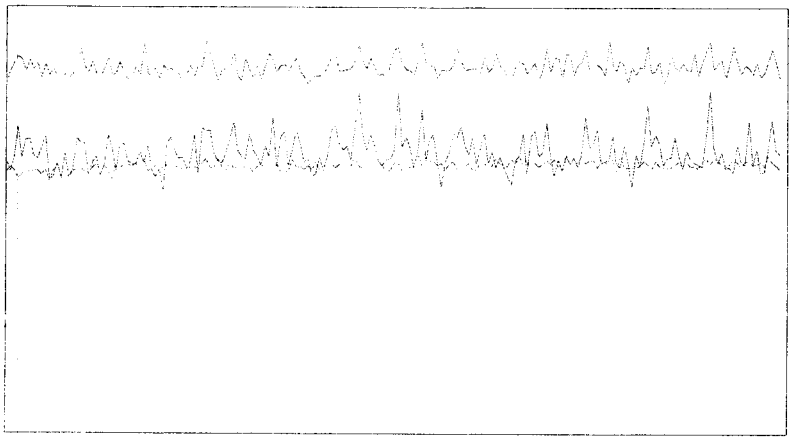
Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		3.8865	2.2755	0.8329	0.5892	0.6257	BLNK	-2.5547	1.64155		1.6420	0.999	0.995	
Antimony	0.3111	0.2133	0.1597	0.1458	0.1200	0.1280	BLNK	-0.3477	7.92772		0.1796	0.999	0.995	
Arsenic		0.3796	0.3716	0.3019	0.2691	0.2905	BLNK	-0.1052	3.49583		0.3225	0.999	0.995	
Barium	0.0722	0.0741	0.0666	0.0634	0.0564	0.0625	BLNK	-0.0454	16.3101		0.0659	0.998	0.995	
Beryllium	0.1193	0.1317	0.1183	0.1219	0.1088	0.1089	BLNK	-0.0045	9.18386		0.1182	1.000	0.995	
Cadmium	0.5799	0.4497	0.3247	0.2983	0.2486	0.2603	BLNK	-0.2588	3.88162		0.3603	0.999	0.995	
Calcium		0.0154	0.0141	0.0129	0.0117	0.0121	BLNK	-12.179	83.1722		0.0133	1.000	0.995	
Chromium		4.2655	3.0491	1.9910	1.6448	1.7620	BLNK	-0.7036	0.57752		2.5425	0.999	0.995	584
Cobalt	2.4705	2.5058	2.2921	2.3558	2.0523	2.2700	BLNK	-0.0146	0.44913		2.3244	0.998	0.995	
Copper		0.7464	0.6667	0.6338	0.5520	0.5929	BLNK	-0.0263	1.71032		0.6383	0.999	0.995	
Iron		0.0734	0.0620	0.0537	0.0482	0.0516	BLNK	-19.277	19.6651		0.0578	0.999	0.995	
Lead	0.7838	0.7299	0.7070	0.7232	0.6896	0.7232	BLNK	-0.0238	1.39586		0.7261	0.999	0.995	
Magnesium		0.0782	0.0772	0.0836	0.0665	0.0711	BLNK	-0.5698	14.2428		0.0753	0.999	0.995	
Manganese	3.0605	2.8158	2.5579	2.4827	2.1607	2.3733	BLNK	-0.0612	0.42914		2.5751	0.998	0.995	
Molybdenum		0.5824	0.5732	0.5592	0.4945	0.5451	BLNK	-0.0288	1.86942		0.5509	0.998	0.995	
Nickel	0.5807	0.5646	0.5137	0.5185	0.4589	0.4851	BLNK	-0.0165	2.08384		0.5202	0.999	0.995	
Potassium		0.9946	0.7661	0.5358	0.4274	0.4628	BLNK	-44.643	2.19945		0.6373	0.998	0.995	
Selenium		0.0518	0.0464	0.0326	0.0267	0.0284	BLNK	-0.5200	35.7819		0.0372	0.999	0.995	
Silver	2.5306	1.9677	1.6335	1.4759	1.2480	1.3270	BLNK	-0.2245	0.76353		1.6971	0.999	0.995	
Sodium		0.7945	0.8185	0.7730	0.6431	0.6809	BLNK	-4.4942	1.48507		0.7420	0.999	0.995	
Thallium		0.5553	0.5036	0.5121	0.4682	0.5401	BLNK	-0.0413	1.90278		0.5159	0.995	0.995	
Vanadium		2.9471	2.5681	2.1851	1.9336	2.1341	BLNK	-0.2789	0.47833		2.3536	0.998	0.995	
Zinc		0.6271	0.4579	0.3789	0.3051	0.3166	BLNK	-0.2892	3.18628		0.4171	1.000	0.995	

BLNK=Y=aX+[blank]

Instrument amount = a0 + response * a1 + response^2 * a2

Tune Report

Tune File : ATUNE.U



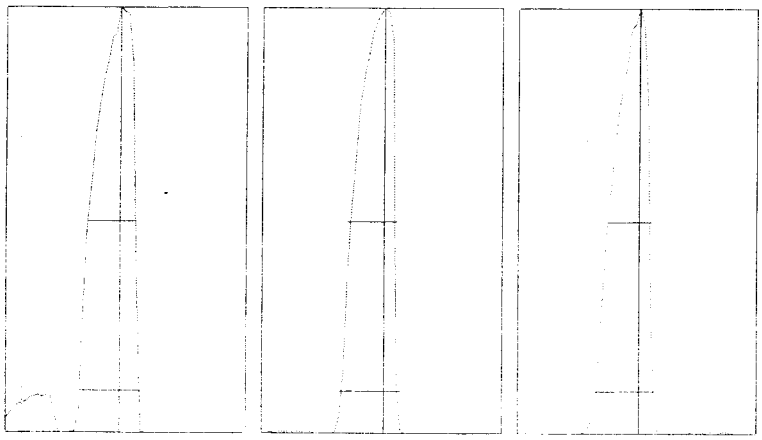
m/z:	7	89	205
Range:	20,000	20,000	20,000
Count:	13,182	16,724	12,462
Mean:	13236.3	17241.4	12604.8
RSD%:	6.19	2.56	1.80
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.46%
Doubly Charged:	70/140	0.97%

Background:

m/z:	7	89	205
Cps:	2.0	1.7	2.0



m/z:	7	89	205
Height:	13,341	17,359	13,199
Axis:	6.95	89.05	205.05
W-50%:	0.60	0.60	0.55
W-10%:	0.7500	0.7500	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===			===Ion Lenses===			===Q-Pole Parameters===	
RF Power:	1210	W	Extract 1:	-156.2	V	AMU Gain:	129
RF Matching:	1.62	V	Extract 2:	-96	V	AMU Offset:	127
Smpl Depth:	7	mm	Einzel 1,3:	-66	V	Axis Gain:	0.9998
Torch-H:	0	mm	Einzel 2:	16	V	Axis Offset:	-0.07
Torch-V:	0.4	mm	Omega Bias:	-33	V	QP Bias:	1.5 V
Carrier Gas:	1.14	L/min	Omega (+):	1	V		
Makeup Gas:	0	L/min	Omega (-):	-6.7	V	===Detector Parameters===	
Optional Gas:	---	%	QP Focus:	7.1	V	Discriminator:	8.7 mV
PeriPump1:	0.1	rps	Plate Bias:	-12.5	V	Analog HV:	1760 V
PeriPump2:	---	rps				Pulse HV:	1200 V
S/C Temp:	2	degC					

Generated : Mar 25, 2006 09:11:17
Printed : Mar 25, 2006 09:11:23

P/A Factor Tuning Report

Acquired:Mar 25 2006 09:32 am

Mass[amu]	Element	P/A Factor
6	Li	0.068303
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.090756
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.095697
45	Sc	Sensitivity too low
51	V	0.094817
52	Cr	0.096140
53	Cr	Sensitivity too low
54	Fe	0.102546
55	Mn	0.098579
57	Fe	0.101471
59	Co	0.101468
60	Ni	Sensitivity too low
63	Cu	Sensitivity too low
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.101158
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.106210
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	0.107844
118	(In)	0.110861
121	Sb	Sensitivity too low
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.111186
166	Er	Sensitivity too low

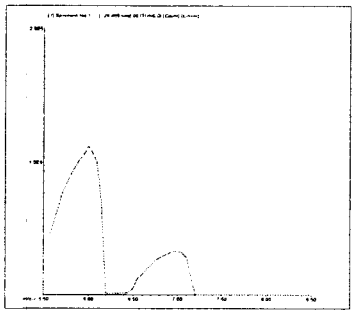
```
205        Tl    0.115486
206      (Pb)  Sensitivity too low
207      (Pb)  Sensitivity too low
208        Pb    0.114518
209        Bi    0.114511

===Detector Parameters===
  Discriminator: 8.7 mV
      Analog HV: 1760 V
       Pulse HV: 1200 V
```

6020 QC Tune Report

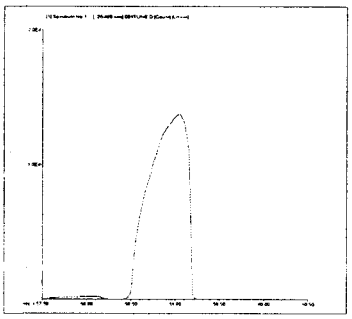
Data File: C:\ICPCHEM\1\DATA\06C2517a.B\001TUNE.D
Date Acquired: Mar 25 2006 05:07 pm
Acq. Method: TN6020.M
Operator:
Sample Name: TUN,S2898
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

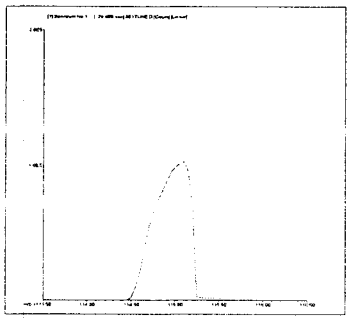
Element	Actual	Required	Flag
7 Li	0.85	5.00	
59 Co	1.27	5.00	
115 In	1.17	5.00	
205 Tl	0.71	5.00	



7 Li
Mass Calib.
Actual: 6.95
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



115 In

Mass Calib.

Actual: 115.10

Required: 114.90 - 115.10

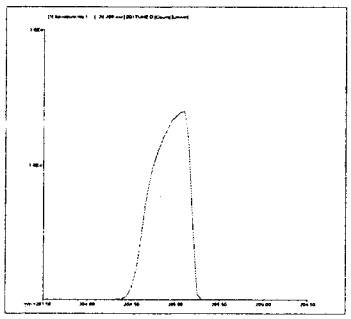
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



205 Tl

Mass Calib.

Actual: 205.10

Required: 204.90 - 205.10

Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2517a.B\002BLNK.D\002BLNK.D#
Date Acquired:	Mar 25 2006 05:13 pm
Acq. Method:	60200111.M
Operator:	
Sample Name:	RINSE
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update:	Mar 25 2006 04:49 pm
Sample Type:	6-Blank
Dilution Factor:	1.00

QC Elements

Element	Corr. Conc.	RSD(%)	Raw Conc.	High Limit	Flag
9 Be	-0.008454 ppb	36.78	-0.008454	1.00	
23 Na	-0.797 ppb	59.91	-0.797	1.00	
26 Mg	-0.3247 ppb	78.50	-0.3247	1.00	
27 Al	-1.315 ppb	4.83	-1.315	1.00	
39 K	0.7718 ppb	756.15	0.7718	1.00	
44 Ca	-0.3111 ppb	175.83	-0.3111	1.00	
51 V	-0.03952 ppb	371.46	-0.03952	1.00	
52 Cr	-0.06869 ppb	43.06	-0.06869	1.00	
55 Mn	-0.0154 ppb	49.05	-0.0154	1.00	
57 Fe	-2.061 ppb	86.95	-2.061	1.00	
59 Co	0.005511 ppb	120.87	0.005511	1.00	
60 Ni	-0.008204 ppb	101.06	-0.008204	1.00	
65 Cu	0.004633 ppb	338.23	0.004633	1.00	
66 Zn	0.07853 ppb	89.39	0.07853	1.00	
75 As	0.2477 ppb	57.17	0.2477	1.00	
82 Se	0.5152 ppb	11.79	0.5152	1.00	
95 Mo	0.003936 ppb	271.09	0.003936	1.00	
109 Ag	0.4199 ppb	3.52	0.4199	1.00	
111 Cd	-0.02732 ppb	256.52	-0.02732	1.00	
121 Sb	0.2282 ppb	2.66	0.2282	1.00	
137 Ba	-0.01357 ppb	161.83	-0.01357	1.00	
205 Tl	0.1591 ppb	20.46	0.1591	1.00	
208 Pb	0.001769 ppb	184.57	0.001769	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1075951.00	1.80	---	#VALUE!	80 - 120	
45 Sc	597797.44	1.45	---	#VALUE!	80 - 120	
72 Ge	131139.78	0.91	---	#VALUE!	80 - 120	
115 In	781566.19	2.93	---	#VALUE!	80 - 120	
209 Bi	614094.38	0.45	---	#VALUE!	80 - 120	

ISTD Ref File : ---

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Pass
ISTD: Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2517a.B\003CAL
Date Acquired:	Mar 25 2006 05:19 pm
Operator:	
Sample Name:	std-blk
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 25 2006 04:49 pm
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	1139817.00	A	31180.00	2.74
9	Be	11.11	P	1.93	17.33
23	Na	38380.00	P	339.80	0.89
26	Mg	506.67	P	57.83	11.41
27	Al	19736.67	P	241.80	1.23
39	K	257405.50	P	1989.00	0.77
44	Ca	1856.11	P	105.70	5.69
45	Sc	634190.31	A	11000.00	1.73
51	V	1553.97	P	261.60	16.83
52	Cr	3250.00	P	28.87	0.89
55	Mn	380.00	P	38.44	10.12
57	Fe	2615.56	P	113.50	4.34
59	Co	86.67	P	8.82	10.18
60	Ni	21.11	P	3.85	18.23
65	Cu	41.11	P	8.39	20.41
66	Zn	242.22	P	38.63	15.95
72	Ge	133388.70	P	1331.00	1.00
75	As	80.74	P	98.00	121.37
82	Se	38.89	P	22.32	57.39
95	Mo	41.11	P	5.09	12.39
109	Ag	784.44	P	22.69	2.89
111	Cd	178.02	P	22.38	12.57
115	In	777896.88	P	8143.00	1.05
121	Sb	682.22	P	28.74	4.21
137	Ba	43.33	P	3.33	7.69
205	Tl	278.89	P	13.47	4.83
208	Pb	218.89	P	41.41	18.92
209	Bi	641813.31	P	2797.00	0.44

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2517a.B\004CALI.D\004CALI.D#
Date Acquired: Mar 25 2006 05:25 pm
Operator:
Sample Name: CS1,S2889
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 25 2006 05:21 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	1099508.00	A	30380.00	2.76
9	Be	655.56	P	80.02	12.21
23	Na	251408.91	P	4948.00	1.97
26	Mg	23628.89	P	415.90	1.76
27	Al	21293.33	P	380.00	1.78
39	K	400821.09	P	3438.00	0.86
44	Ca	5553.38	P	117.30	2.11
45	Sc	602823.63	A	5549.00	0.92
51	V	2445.76	P	345.00	14.11
52	Cr	4493.33	P	40.00	0.89
55	Mn	2008.89	P	67.36	3.35
57	Fe	6175.56	P	279.70	4.53
59	Co	1622.22	P	103.00	6.35
60	Ni	381.11	P	26.94	7.07
65	Cu	509.90	P	40.41	7.93
66	Zn	526.55	P	26.03	4.94
72	Ge	131303.59	P	973.30	0.74
75	As	279.14	P	93.98	33.67
82	Se	50.67	P	8.08	15.95
95	Mo	365.56	P	48.57	13.29
109	Ag	1661.11	P	67.52	4.06
111	Cd	380.62	P	18.69	4.91
115	In	760712.38	P	9593.00	1.26
121	Sb	1183.33	P	20.28	1.71
137	Ba	274.44	P	43.50	15.85
205	Tl	1855.56	P	45.01	2.43
208	Pb	2436.67	P	68.88	2.83
209	Bi	621853.31	P	3542.00	0.57

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1099507.50	2.76	1139817.40	96.5	80 - 120	

45	Sc	602823.63	0.92	634190.31	95.1	80 -	120
72	Ge	131303.55	0.74	133388.67	98.4	80 -	120
115	In	760712.38	1.26	777896.94	97.8	80 -	120
209	Bi	621853.31	0.57	641813.31	96.9	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2517a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2517a.B\005CALI.D\005CALI.D#
Date Acquired: Mar 25 2006 05:30 pm
Operator:
Sample Name: CS2,S2890
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 25 2006 05:26 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	1064395.00	A	8797.00	0.83
9	Be	1402.22	P	70.26	5.01
23	Na	474683.31	P	9577.00	2.02
26	Mg	46724.44	P	318.70	0.68
27	Al	23218.89	P	410.80	1.77
39	K	594147.13	A	13050.00	2.20
44	Ca	9220.93	P	280.40	3.04
45	Sc	597475.31	A	13750.00	2.30
51	V	3811.36	P	209.40	5.49
52	Cr	5515.56	P	186.50	3.38
55	Mn	3641.11	P	69.39	1.91
57	Fe	9497.78	P	337.80	3.56
59	Co	3241.11	P	306.70	9.46
60	Ni	730.00	P	5.77	0.79
65	Cu	965.36	P	68.50	7.10
66	Zn	810.88	P	19.53	2.41
72	Ge	129310.40	P	603.00	0.47
75	As	490.41	P	246.90	50.35
82	Se	66.89	P	24.31	36.34
95	Mo	753.33	P	58.59	7.78
109	Ag	2544.44	P	50.15	1.97
111	Cd	581.58	P	17.06	2.93
115	In	745057.00	P	4798.00	0.64
121	Sb	1588.89	P	10.72	0.67
137	Ba	552.22	P	18.36	3.32
205	Tl	3380.00	P	117.00	3.46
208	Pb	4442.22	P	6.94	0.16
209	Bi	608651.13	P	6382.00	1.05

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1064395.10	0.83	1139817.40	93.4	80 - 120	

45	Sc	597475.31	2.30	634190.31	94.2	80 -	120
72	Ge	129310.45	0.47	133388.67	96.9	80 -	120
115	In	745057.00	0.64	777896.94	95.8	80 -	120
209	Bi	608651.06	1.05	641813.31	94.8	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2517a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2517a.B\006CALI.D\006CALI.D#
Date Acquired: Mar 25 2006 05:36 pm
Operator:
Sample Name: CS3,S2891
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 25 2006 05:32 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	1124950.00	A	25820.00	2.30
9 Be	2661.11	P	32.03	1.20
23 Na	978242.38	A	12700.00	1.30
26 Mg	92360.00	P	2222.00	2.41
27 Al	27183.33	P	611.70	2.25
39 K	915507.38	A	7826.00	0.85
44 Ca	16901.34	P	253.40	1.50
45 Sc	598528.69	M	30780.00	5.14
51 V	6844.10	P	520.80	7.61
52 Cr	8131.11	P	186.10	2.29
55 Mn	6821.11	P	173.30	2.54
57 Fe	16544.44	P	147.30	0.89
59 Co	6112.22	P	192.90	3.16
60 Ni	1370.00	P	71.72	5.24
65 Cu	1777.38	P	50.59	2.85
66 Zn	1220.65	P	70.25	5.76
72 Ge	133324.20	P	1289.00	0.97
75 As	990.11	P	99.73	10.07
82 Se	123.56	P	12.48	10.10
95 Mo	1527.78	P	83.42	5.46
109 Ag	4354.44	P	185.50	4.26
111 Cd	865.79	P	6.70	0.77
115 In	797669.69	M	23000.00	2.88
121 Sb	2546.67	P	68.07	2.67
137 Ba	1061.11	P	27.76	2.62
205 Tl	6396.67	P	58.59	0.92
208 Pb	8982.22	P	249.50	2.78
209 Bi	635207.69	P	7627.00	1.20

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1124949.60	2.30	1139817.40	98.7	80 - 120	

45	Sc	598528.69	5.14	634190.31	94.4	80 -	120
72	Ge	133324.22	0.97	133388.67	100.0	80 -	120
115	In	797669.63	2.88	777896.94	102.5	80 -	120
209	Bi	635207.75	1.20	641813.31	99.0	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2517a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2517a.B\007CALI.D\007CALI.D#
Date Acquired: Mar 25 2006 05:41 pm
Operator:
Sample Name: CS4,S2892
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 25 2006 05:37 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	1091618.00	A	21070.00	1.93
9 Be	26608.89	P	602.90	2.27
23 Na	9201740.00	A	261000.00	2.84
26 Mg	994511.81	A	17490.00	1.76
27 Al	99187.78	P	1206.00	1.22
39 K	6376032.00	A	98690.00	1.55
44 Ca	154109.80	P	2000.00	1.30
45 Sc	596088.69	M	26340.00	4.42
51 V	56995.39	P	885.00	1.55
52 Cr	51932.22	P	880.10	1.69
55 Mn	64757.78	P	763.50	1.18
57 Fe	139950.00	P	1666.00	1.19
59 Co	61448.88	P	467.50	0.76
60 Ni	13525.56	P	333.50	2.47
65 Cu	16531.34	P	151.80	0.92
66 Zn	9883.92	P	325.80	3.30
72 Ge	130416.90	P	352.50	0.27
75 As	7873.84	P	208.10	2.64
82 Se	850.89	P	44.07	5.18
95 Mo	14586.67	P	147.50	1.01
109 Ag	38495.56	P	271.30	0.70
111 Cd	7780.49	P	145.50	1.87
115 In	745649.88	P	5725.00	0.77
121 Sb	21748.89	P	113.70	0.52
137 Ba	9454.44	P	190.60	2.02
205 Tl	62686.66	P	119.30	0.19
208 Pb	88518.88	P	519.40	0.59
209 Bi	612013.31	P	3487.00	0.57

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1091618.50	1.93	1139817.40	95.8	80 - 120	

45	Sc	596088.75	4.42	634190.31	94.0	80 -	120
72	Ge	130416.88	0.27	133388.67	97.8	80 -	120
115	In	745649.94	0.77	777896.94	95.9	80 -	120
209	Bi	612013.31	0.57	641813.31	95.4	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2517a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2517a.B\008CALI.D\008CALI.D#
Date Acquired: Mar 25 2006 05:47 pm
Operator:
Sample Name: CS5,S2886
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 25 2006 05:43 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	1094026.00	A	22650.00	2.07
9	Be	238072.20	P	4871.00	2.05
23	Na	80284400.00	A	760800.00	0.95
26	Mg	8301087.00	A	31090.00	0.37
27	Al	735633.13	A	19110.00	2.60
39	K	53363280.00	A	1401000.00	2.63
44	Ca	1461622.00	A	28710.00	1.96
45	Sc	624198.00	A	5580.00	0.89
51	V	508151.19	P	11540.00	2.27
52	Cr	432270.00	P	14560.00	3.37
55	Mn	567762.19	P	11550.00	2.03
57	Fe	1266612.00	A	8146.00	0.64
59	Co	539214.38	P	4200.00	0.78
60	Ni	120586.70	P	2078.00	1.72
65	Cu	145052.20	P	3512.00	2.42
66	Zn	80171.82	P	1222.00	1.52
72	Ge	131387.59	P	1918.00	1.46
75	As	70707.96	P	762.70	1.08
82	Se	7010.67	P	65.55	0.94
95	Mo	129923.30	P	840.40	0.65
109	Ag	327915.50	P	2524.00	0.77
111	Cd	65314.66	P	457.30	0.70
115	In	739931.81	M	14800.00	2.00
121	Sb	177536.70	P	1757.00	0.99
137	Ba	83505.55	P	1025.00	1.23
205	Tl	546468.88	P	3176.00	0.58
208	Pb	804894.38	P	11850.00	1.47
209	Bi	583597.69	P	5004.00	0.86

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1094026.30	2.07	1139817.40	96.0	80 - 120	

45	Sc	624198.06	0.89	634190.31	98.4	80 -	120
72	Ge	131387.55	1.46	133388.67	98.5	80 -	120
115	In	739931.88	2.00	777896.94	95.1	80 -	120
209	Bi	583597.75	0.86	641813.31	90.9	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2517a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2517a.B\009CALI.D\009CALI.D#
Date Acquired: Mar 25 2006 05:52 pm
Operator:
Sample Name: CS6,S2887
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 25 2006 05:48 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	1111770.00	A	30310.00	2.73
9 Be	484173.81	A	13430.00	2.77
23 Na	178841600.00	A	898200.00	0.50
26 Mg	18677200.00	A	78020.00	0.42
27 Al	1643430.00	A	22550.00	1.37
39 K	121581600.00	A	2930000.00	2.41
44 Ca	3181111.00	A	18110.00	0.57
45 Sc	656669.63	A	5569.00	0.85
51 V	1159894.00	A	17720.00	1.53
52 Cr	957627.81	A	10020.00	1.05
55 Mn	1289983.00	A	16770.00	1.30
57 Fe	2803564.00	A	43380.00	1.55
59 Co	1233926.00	A	30660.00	2.48
60 Ni	263676.69	P	5233.00	1.98
65 Cu	322235.19	P	3665.00	1.14
66 Zn	172067.70	P	2271.00	1.32
72 Ge	135881.30	P	1123.00	0.83
75 As	157882.20	P	1372.00	0.87
82 Se	15416.00	P	128.70	0.83
95 Mo	296250.00	P	1416.00	0.48
109 Ag	721276.63	P	9896.00	1.37
111 Cd	141477.80	P	1178.00	0.83
115 In	752624.38	M	12350.00	1.64
121 Sb	385201.09	P	2676.00	0.69
137 Ba	188264.41	P	201.00	0.11
205 Tl	1259054.00	A	16310.00	1.30
208 Pb	1685944.00	P	1982.00	0.12
209 Bi	582791.13	P	2048.00	0.35

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1111769.80	2.73	1139817.40	97.5	80 - 120	

45	Sc	656669.56	0.85	634190.31	103.5	80 -	120
72	Ge	135881.33	0.83	133388.67	101.9	80 -	120
115	In	752624.38	1.64	777896.94	96.8	80 -	120
209	Bi	582791.06	0.35	641813.31	90.8	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2517a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987013 File : c2517013 Time : 25-MAR-2006 18:18
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2895, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	1.6420	0.6383	100.0	102.2	ug/L	2	10	
Antimony	0.1796	0.1248	100.0	98.62	ug/L	-1	10	
Arsenic	0.3225	0.2777	100.0	96.99	ug/L	-3	10	
Barium	0.0659	0.0588	100.0	95.87	ug/L	-4	10	
Beryllium	0.1182	0.1114	100.0	102.3	ug/L	2	10	
Cadmium	0.3603	0.2572	100.0	99.57	ug/L	0	10	
Calcium	0.0133	0.0121	10000	10050	ug/L	1	10	
Chromium	2.5425	1.7027	100.0	97.63	ug/L	-2	10	
Cobalt	2.3244	2.1303	100.0	95.66	ug/L	-4	10	
Copper	0.6383	0.5746	100.0	98.24	ug/L	-2	10	
Iron	0.0578	0.0503	10000	9881	ug/L	-1	10	
Lead	0.7261	0.6946	100.0	96.93	ug/L	-3	10	
Magnesium	0.0753	0.0710	10000	10110	ug/L	1	10	
Manganese	2.5751	2.2485	100.0	96.43	ug/L	-4	10	
Molybdenum	0.5509	0.5125	100.0	95.77	ug/L	-4	10	
Nickel	0.5202	0.4697	100.0	97.85	ug/L	-2	10	
Potassium	0.6373	0.4570	10000	10010	ug/L	0	10	
Selenium	0.0372	0.0282	100.0	100.2	ug/L	0	10	
Silver	1.6971	1.2974	100.0	98.84	ug/L	-1	10	
Sodium	0.7420	0.6833	10000	10140	ug/L	1	10	
Thallium	0.5159	0.4822	100.0	91.70	ug/L	-8	10	
Vanadium	2.3536	2.0275	100.0	96.70	ug/L	-3	10	
Zinc	0.4171	0.3172	100.0	100.8	ug/L	1	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1123841	-1.40
Scandium	634190	634586	0.06
Germanium	133389	136011	1.97
Indium	777897	767915	-1.28
Bismuth	641813	607116	-5.41

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987026 File : c2517026 Time : 25-MAR-2006 19:29
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2896, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.6671	100.0	107.0	ug/L	7	10	
Antimony	0.1796	0.1284	100.0	101.5	ug/L	2	10	
Arsenic	0.3225	0.2817	100.0	98.36	ug/L	-2	10	
Barium	0.0659	0.0620	100.0	101.0	ug/L	1	10	
Beryllium	0.1182	0.1116	100.0	102.4	ug/L	2	10	
Cadmium	0.3603	0.2679	100.0	103.7	ug/L	4	10	
Calcium	0.0133	0.0124	10000	10290	ug/L	3	10	
Chromium	2.5425	1.7611	100.0	101.0	ug/L	1	10	
Cobalt	2.3244	2.2555	100.0	101.3	ug/L	1	10	
Copper	0.6383	0.5965	100.0	102.0	ug/L	2	10	
Iron	0.0578	0.0540	10000	10610	ug/L	6	10	
Lead	0.7261	0.7082	100.0	98.83	ug/L	-1	10	
Magnesium	0.0753	0.0739	10000	10530	ug/L	5	10	
Manganese	2.5751	2.4006	100.0	103.0	ug/L	3	10	
Molybdenum	0.5509	0.5257	100.0	98.24	ug/L	-2	10	
Nickel	0.5202	0.4929	100.0	102.7	ug/L	3	10	
Potassium	0.6373	0.4523	10000	9903	ug/L	-1	10	
Selenium	0.0372	0.0283	100.0	100.6	ug/L	1	10	
Silver	1.6971	1.3538	100.0	103.1	ug/L	3	10	
Sodium	0.7420	0.7380	10000	10960	ug/L	10	10	
Thallium	0.5159	0.4956	100.0	94.26	ug/L	-6	10	
Vanadium	2.3536	2.0640	100.0	98.45	ug/L	-2	10	
Zinc	0.4171	0.3308	100.0	105.1	ug/L	5	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1061300	-6.89
Scandium	634190	550830	-13.14
Germanium	133389	129717	-2.75
Indium	777897	771565	-0.81
Bismuth	641813	621164	-3.22

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987040 File : c2517040 Time : 25-MAR-2006 20:47
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2896, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.6684	100.0	107.2	ug/L	7	10	
Antimony	0.1796	0.1280	100.0	101.1	ug/L	1	10	
Arsenic	0.3225	0.2797	100.0	97.68	ug/L	-2	10	
Barium	0.0659	0.0618	100.0	100.7	ug/L	1	10	
Beryllium	0.1182	0.1072	100.0	98.42	ug/L	-2	10	
Cadmium	0.3603	0.2664	100.0	103.1	ug/L	3	10	
Calcium	0.0133	0.0123	10000	10220	ug/L	2	10	
Chromium	2.5425	1.7749	100.0	101.8	ug/L	2	10	
Cobalt	2.3244	2.2544	100.0	101.2	ug/L	1	10	
Copper	0.6383	0.5970	100.0	102.1	ug/L	2	10	
Iron	0.0578	0.0534	10000	10490	ug/L	5	10	
Lead	0.7261	0.7102	100.0	99.10	ug/L	-1	10	
Magnesium	0.0753	0.0745	10000	10610	ug/L	6	10	
Manganese	2.5751	2.3988	100.0	102.9	ug/L	3	10	
Molybdenum	0.5509	0.5205	100.0	97.27	ug/L	-3	10	
Nickel	0.5202	0.5029	100.0	104.8	ug/L	5	10	
Potassium	0.6373	0.4600	10000	10070	ug/L	1	10	
Selenium	0.0372	0.0276	100.0	98.15	ug/L	-2	10	
Silver	1.6971	1.3500	100.0	102.9	ug/L	3	10	
Sodium	0.7420	0.7429	10000	11030	ug/L	10	10	
Thallium	0.5159	0.4963	100.0	94.38	ug/L	-6	10	
Vanadium	2.3536	2.0145	100.0	96.08	ug/L	-4	10	
Zinc	0.4171	0.3297	100.0	104.8	ug/L	5	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1102280	-3.29
Scandium	634190	550965	-13.12
Germanium	133389	130911	-1.86
Indium	777897	781234	0.43
Bismuth	641813	625052	-2.61

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987059 File : c2517059 Time : 25-MAR-2006 22:31
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2896, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.6708	100.0	107.6	ug/L	8	10	
Antimony	0.1796	0.1297	100.0	102.5	ug/L	3	10	
Arsenic	0.3225	0.2741	100.0	95.70	ug/L	-4	10	
Barium	0.0659	0.0621	100.0	101.3	ug/L	1	10	
Beryllium	0.1182	0.1067	100.0	98.01	ug/L	-2	10	
Cadmium	0.3603	0.2731	100.0	105.7	ug/L	6	10	
Calcium	0.0133	0.0127	10000	10540	ug/L	5	10	
Chromium	2.5425	1.7468	100.0	100.2	ug/L	0	10	
Cobalt	2.3244	2.2016	100.0	98.87	ug/L	-1	10	
Copper	0.6383	0.5752	100.0	98.36	ug/L	-2	10	
Iron	0.0578	0.0528	10000	10350	ug/L	4	10	
Lead	0.7261	0.6921	100.0	96.59	ug/L	-3	10	
Magnesium	0.0753	0.0742	10000	10570	ug/L	6	10	
Manganese	2.5751	2.3459	100.0	100.6	ug/L	1	10	
Molybdenum	0.5509	0.5237	100.0	97.88	ug/L	-2	10	
Nickel	0.5202	0.4894	100.0	102.0	ug/L	2	10	
Potassium	0.6373	0.4461	10000	9767	ug/L	-2	10	
Selenium	0.0372	0.0278	100.0	98.84	ug/L	-1	10	
Silver	1.6971	1.3643	100.0	103.9	ug/L	4	10	
Sodium	0.7420	0.7494	10000	11120	ug/L	**11**	10	c+ ***
Thallium	0.5159	0.4803	100.0	91.35	ug/L	-9	10	
Vanadium	2.3536	1.9752	100.0	94.20	ug/L	-6	10	
Zinc	0.4171	0.3243	100.0	103.0	ug/L	3	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1024016	-10.16
Scandium	634190	484073	-23.67
Germanium	133389	120192	-9.89
Indium	777897	728547	-6.34
Bismuth	641813	618298	-3.66

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987073 File : c2517073 Time : 25-MAR-2006 23:49
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2896, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.6200	100.0	99.23	ug/L	-1	10	
Antimony	0.1796	0.1287	100.0	101.7	ug/L	2	10	
Arsenic	0.3225	0.2729	100.0	95.28	ug/L	-5	10	
Barium	0.0659	0.0611	100.0	99.56	ug/L	0	10	
Beryllium	0.1182	0.1065	100.0	97.78	ug/L	-2	10	
Cadmium	0.3603	0.2654	100.0	102.8	ug/L	3	10	
Calcium	0.0133	0.0120	10000	9944	ug/L	-1	10	
Chromium	2.5425	1.7148	100.0	98.33	ug/L	-2	10	
Cobalt	2.3244	2.2148	100.0	99.46	ug/L	-1	10	
Copper	0.6383	0.5724	100.0	97.88	ug/L	-2	10	
Iron	0.0578	0.0537	10000	10550	ug/L	6	10	
Lead	0.7261	0.6883	100.0	96.06	ug/L	-4	10	
Magnesium	0.0753	0.0707	10000	10070	ug/L	1	10	
Manganese	2.5751	2.3678	100.0	101.6	ug/L	2	10	
Molybdenum	0.5509	0.5137	100.0	96.01	ug/L	-4	10	
Nickel	0.5202	0.4880	100.0	101.7	ug/L	2	10	
Potassium	0.6373	0.4239	10000	9278	ug/L	-7	10	
Selenium	0.0372	0.0270	100.0	96.27	ug/L	-4	10	
Silver	1.6971	1.3459	100.0	102.5	ug/L	3	10	
Sodium	0.7420	0.7007	10000	10400	ug/L	4	10	
Thallium	0.5159	0.4791	100.0	91.11	ug/L	-9	10	
Vanadium	2.3536	1.9529	100.0	93.13	ug/L	-7	10	
Zinc	0.4171	0.3222	100.0	102.4	ug/L	2	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1034687	-9.22
Scandium	634190	540977	-14.70
Germanium	133389	124388	-6.75
Indium	777897	745305	-4.19
Bismuth	641813	617623	-3.77

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987088 File : c2517088 Time : 26-MAR-2006 01:12
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.6573	150.0	159.3	ug/L	6	10	
Antimony	0.1796	0.1391	150.0	165.0	ug/L	10	10	
Arsenic	0.3225	0.2932	150.0	153.6	ug/L	2	10	
Barium	0.0659	0.0675	150.0	165.1	ug/L	10	10	
Beryllium	0.1182	0.1117	150.0	153.9	ug/L	3	10	
Cadmium	0.3603	0.2858	150.0	166.2	ug/L	**11**	10	c+ ***
Calcium	0.0133	0.0125	15000	15600	ug/L	4	10	
Chromium	2.5425	1.9583	150.0	168.9	ug/L	**13**	10	c+ ***
Cobalt	2.3244	2.4724	150.0	166.6	ug/L	**11**	10	c+ ***
Copper	0.6383	0.6059	150.0	155.4	ug/L	4	10	
Iron	0.0578	0.0570	15000	16790	ug/L	**12**	10	c+ ***
Lead	0.7261	0.7263	150.0	152.1	ug/L	1	10	
Magnesium	0.0753	0.0747	15000	15970	ug/L	6	10	
Manganese	2.5751	2.6473	150.0	170.3	ug/L	**14**	10	c+ ***
Molybdenum	0.5509	0.5610	150.0	157.3	ug/L	5	10	
Nickel	0.5202	0.5164	150.0	161.4	ug/L	8	10	
Potassium	0.6373	0.4458	15000	14660	ug/L	-2	10	
Selenium	0.0372	0.0288	150.0	154.3	ug/L	3	10	
Silver	1.6971	1.4391	150.0	164.6	ug/L	10	10	
Sodium	0.7420	0.7538	15000	16790	ug/L	**12**	10	c+ ***
Thallium	0.5159	0.5610	150.0	160.1	ug/L	7	10	
Vanadium	2.3536	2.2804	150.0	163.3	ug/L	9	10	
Zinc	0.4171	0.3402	150.0	162.3	ug/L	8	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1065469	-6.52
Scandium	634190	535639	-15.54
Germanium	133389	123218	-7.62
Indium	777897	731747	-5.93
Bismuth	641813	604871	-5.76

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987097 File : c2517097 Time : 26-MAR-2006 02:02
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.6652	150.0	161.2	ug/L	7	10	
Antimony	0.1796	0.1388	150.0	164.8	ug/L	10	10	
Arsenic	0.3225	0.2929	150.0	153.5	ug/L	2	10	
Barium	0.0659	0.0686	150.0	167.9	ug/L	**12**	10	c+ ***
Beryllium	0.1182	0.1123	150.0	154.7	ug/L	3	10	
Cadmium	0.3603	0.2865	150.0	166.6	ug/L	**11**	10	c+ ***
Calcium	0.0133	0.0129	15000	16030	ug/L	7	10	
Chromium	2.5425	1.9357	150.0	167.0	ug/L	**11**	10	c+ ***
Cobalt	2.3244	2.5096	150.0	169.1	ug/L	**13**	10	c+ ***
Copper	0.6383	0.6034	150.0	154.8	ug/L	3	10	
Iron	0.0578	0.0581	15000	17130	ug/L	**14**	10	c+ ***
Lead	0.7261	0.7361	150.0	154.1	ug/L	3	10	
Magnesium	0.0753	0.0756	15000	16150	ug/L	8	10	
Manganese	2.5751	2.6790	150.0	172.4	ug/L	**15**	10	c+ ***
Molybdenum	0.5509	0.5633	150.0	157.9	ug/L	5	10	
Nickel	0.5202	0.5167	150.0	161.5	ug/L	8	10	
Potassium	0.6373	0.4543	15000	14940	ug/L	0	10	
Selenium	0.0372	0.0292	150.0	156.2	ug/L	4	10	
Silver	1.6971	1.4590	150.0	166.9	ug/L	**11**	10	c+ ***
Sodium	0.7420	0.7755	15000	17270	ug/L	**15**	10	c+ ***
Thallium	0.5159	0.5653	150.0	161.3	ug/L	8	10	
Vanadium	2.3536	2.2522	150.0	161.3	ug/L	8	10	
Zinc	0.4171	0.3415	150.0	162.9	ug/L	9	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1015278	-10.93
Scandium	634190	524872	-17.24
Germanium	133389	121455	-8.95
Indium	777897	730659	-6.07
Bismuth	641813	601084	-6.35

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987111 File : c2517111 Time : 26-MAR-2006 03:21
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.6954	150.0	168.7	ug/L	**12**	10	c+ ***
Antimony	0.1796	0.1382	150.0	164.0	ug/L	9	10	
Arsenic	0.3225	0.2919	150.0	153.0	ug/L	2	10	
Barium	0.0659	0.0675	150.0	165.0	ug/L	10	10	
Beryllium	0.1182	0.1125	150.0	155.0	ug/L	3	10	
Cadmium	0.3603	0.2816	150.0	163.7	ug/L	9	10	
Calcium	0.0133	0.0132	15000	16410	ug/L	9	10	
Chromium	2.5425	1.9389	150.0	167.3	ug/L	**12**	10	c+ ***
Cobalt	2.3244	2.4961	150.0	168.1	ug/L	**12**	10	c+ ***
Copper	0.6383	0.6138	150.0	157.4	ug/L	5	10	
Iron	0.0578	0.0577	15000	16990	ug/L	**13**	10	c+ ***
Lead	0.7261	0.7211	150.0	151.0	ug/L	1	10	
Magnesium	0.0753	0.0790	15000	16890	ug/L	**13**	10	c+ ***
Manganese	2.5751	2.6609	150.0	171.2	ug/L	**14**	10	c+ ***
Molybdenum	0.5509	0.5541	150.0	155.3	ug/L	4	10	
Nickel	0.5202	0.5227	150.0	163.4	ug/L	9	10	
Potassium	0.6373	0.4868	15000	16010	ug/L	7	10	
Selenium	0.0372	0.0286	150.0	153.2	ug/L	2	10	
Silver	1.6971	1.4497	150.0	165.8	ug/L	**11**	10	c+ ***
Sodium	0.7420	0.7937	15000	17680	ug/L	**18**	10	c+ ***
Thallium	0.5159	0.5565	150.0	158.8	ug/L	6	10	
Vanadium	2.3536	2.2917	150.0	164.2	ug/L	9	10	
Zinc	0.4171	0.3374	150.0	161.0	ug/L	7	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1035614	-9.14
Scandium	634190	505270	-20.33
Germanium	133389	119610	-10.33
Indium	777897	706930	-9.12
Bismuth	641813	584167	-8.98

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987124 File : c2517124 Time : 26-MAR-2006 04:33
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.6922	150.0	167.9	ug/L	**12**	10	c+ ***
Antimony	0.1796	0.1392	150.0	165.2	ug/L	10	10	
Arsenic	0.3225	0.2898	150.0	151.9	ug/L	1	10	
Barium	0.0659	0.0674	150.0	164.8	ug/L	10	10	
Beryllium	0.1182	0.1185	150.0	163.3	ug/L	9	10	
Cadmium	0.3603	0.2759	150.0	160.4	ug/L	7	10	
Calcium	0.0133	0.0129	15000	16070	ug/L	7	10	
Chromium	2.5425	1.9463	150.0	167.9	ug/L	**12**	10	c+ ***
Cobalt	2.3244	2.4731	150.0	166.6	ug/L	**11**	10	c+ ***
Copper	0.6383	0.6060	150.0	155.4	ug/L	4	10	
Iron	0.0578	0.0573	15000	16870	ug/L	**12**	10	c+ ***
Lead	0.7261	0.7237	150.0	151.5	ug/L	1	10	
Magnesium	0.0753	0.0787	15000	16800	ug/L	**12**	10	c+ ***
Manganese	2.5751	2.6406	150.0	169.9	ug/L	**13**	10	c+ ***
Molybdenum	0.5509	0.5452	150.0	152.8	ug/L	2	10	
Nickel	0.5202	0.5176	150.0	161.8	ug/L	8	10	
Potassium	0.6373	0.4684	15000	15410	ug/L	3	10	
Selenium	0.0372	0.0284	150.0	152.1	ug/L	1	10	
Silver	1.6971	1.4134	150.0	161.7	ug/L	8	10	
Sodium	0.7420	0.7823	15000	17420	ug/L	**16**	10	c+ ***
Thallium	0.5159	0.5334	150.0	152.2	ug/L	1	10	
Vanadium	2.3536	2.2845	150.0	163.6	ug/L	9	10	
Zinc	0.4171	0.3341	150.0	159.4	ug/L	6	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1047439	-8.10
Scandium	634190	534967	-15.65
Germanium	133389	123404	-7.49
Indium	777897	704117	-9.48
Bismuth	641813	572928	-10.73

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987139 File : c2517139 Time : 26-MAR-2006 05:56
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.6754	150.0	163.8	ug/L	9	10	
Antimony	0.1796	0.1285	150.0	152.5	ug/L	2	10	
Arsenic	0.3225	0.2872	150.0	150.5	ug/L	0	10	
Barium	0.0659	0.0619	150.0	151.3	ug/L	1	10	
Beryllium	0.1182	0.1176	150.0	162.0	ug/L	8	10	
Cadmium	0.3603	0.2715	150.0	157.8	ug/L	5	10	
Calcium	0.0133	0.0125	15000	15640	ug/L	4	10	
Chromium	2.5425	1.9313	150.0	166.6	ug/L	**11**	10	c+ ***
Cobalt	2.3244	2.4100	150.0	162.3	ug/L	8	10	
Copper	0.6383	0.5966	150.0	153.0	ug/L	2	10	
Iron	0.0578	0.0558	15000	16450	ug/L	10	10	
Lead	0.7261	0.7051	150.0	147.6	ug/L	-2	10	
Magnesium	0.0753	0.0744	15000	15890	ug/L	6	10	
Manganese	2.5751	2.5918	150.0	166.8	ug/L	**11**	10	c+ ***
Molybdenum	0.5509	0.5439	150.0	152.5	ug/L	2	10	
Nickel	0.5202	0.5094	150.0	159.2	ug/L	6	10	
Potassium	0.6373	0.4595	15000	15120	ug/L	1	10	
Selenium	0.0372	0.0281	150.0	150.1	ug/L	0	10	
Silver	1.6971	1.3716	150.0	156.9	ug/L	5	10	
Sodium	0.7420	0.7316	15000	16290	ug/L	9	10	
Thallium	0.5159	0.5496	150.0	156.8	ug/L	5	10	
Vanadium	2.3536	2.2926	150.0	164.2	ug/L	9	10	
Zinc	0.4171	0.3278	150.0	156.4	ug/L	4	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1128178	-1.02
Scandium	634190	586467	-7.53
Germanium	133389	127269	-4.59
Indium	777897	771339	-0.84
Bismuth	641813	587469	-8.47

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987156 File : c2517156 Time : 26-MAR-2006 07:30
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.6752	150.0	163.7	ug/L	9	10	
Antimony	0.1796	0.1378	150.0	163.5	ug/L	9	10	
Arsenic	0.3225	0.2923	150.0	153.2	ug/L	2	10	
Barium	0.0659	0.0665	150.0	162.7	ug/L	8	10	
Beryllium	0.1182	0.1192	150.0	164.2	ug/L	9	10	
Cadmium	0.3603	0.2684	150.0	156.0	ug/L	4	10	
Calcium	0.0133	0.0129	15000	16110	ug/L	7	10	
Chromium	2.5425	1.9793	150.0	170.8	ug/L	**14**	10	c+ ***
Cobalt	2.3244	2.4916	150.0	167.8	ug/L	**12**	10	c+ ***
Copper	0.6383	0.6088	150.0	156.2	ug/L	4	10	
Iron	0.0578	0.0575	15000	16950	ug/L	**13**	10	c+ ***
Lead	0.7261	0.7335	150.0	153.6	ug/L	2	10	
Magnesium	0.0753	0.0754	15000	16100	ug/L	7	10	
Manganese	2.5751	2.6573	150.0	171.0	ug/L	**14**	10	c+ ***
Molybdenum	0.5509	0.5415	150.0	151.8	ug/L	1	10	
Nickel	0.5202	0.5224	150.0	163.3	ug/L	9	10	
Potassium	0.6373	0.4713	15000	15500	ug/L	3	10	
Selenium	0.0372	0.0286	150.0	152.8	ug/L	2	10	
Silver	1.6971	1.3874	150.0	158.7	ug/L	6	10	
Sodium	0.7420	0.7481	15000	16660	ug/L	**11**	10	c+ ***
Thallium	0.5159	0.5465	150.0	155.9	ug/L	4	10	
Vanadium	2.3536	2.3349	150.0	167.3	ug/L	**12**	10	c+ ***
Zinc	0.4171	0.3345	150.0	159.6	ug/L	6	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1103389	-3.20
Scandium	634190	564782	-10.94
Germanium	133389	123746	-7.23
Indium	777897	703884	-9.51
Bismuth	641813	554114	-13.66

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987170 File : c2517170 Time : 26-MAR-2006 08:49
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.6549	150.0	158.7	ug/L	6	10	
Antimony	0.1796	0.1269	150.0	150.6	ug/L	0	10	
Arsenic	0.3225	0.2854	150.0	149.6	ug/L	0	10	
Barium	0.0659	0.0617	150.0	150.8	ug/L	1	10	
Beryllium	0.1182	0.1203	150.0	165.7	ug/L	10	10	
Cadmium	0.3603	0.2629	150.0	152.8	ug/L	2	10	
Calcium	0.0133	0.0122	15000	15150	ug/L	1	10	
Chromium	2.5425	1.9280	150.0	166.3	ug/L	**11**	10	c+ ***
Cobalt	2.3244	2.4532	150.0	165.3	ug/L	10	10	
Copper	0.6383	0.5945	150.0	152.5	ug/L	2	10	
Iron	0.0578	0.0558	15000	16430	ug/L	10	10	
Lead	0.7261	0.7103	150.0	148.7	ug/L	-1	10	
Magnesium	0.0753	0.0741	15000	15830	ug/L	6	10	
Manganese	2.5751	2.5794	150.0	166.0	ug/L	**11**	10	c+ ***
Molybdenum	0.5509	0.5270	150.0	147.8	ug/L	-1	10	
Nickel	0.5202	0.5058	150.0	158.1	ug/L	5	10	
Potassium	0.6373	0.4507	15000	14820	ug/L	-1	10	
Selenium	0.0372	0.0281	150.0	150.5	ug/L	0	10	
Silver	1.6971	1.3333	150.0	152.5	ug/L	2	10	
Sodium	0.7420	0.7201	15000	16040	ug/L	7	10	
Thallium	0.5159	0.5248	150.0	149.8	ug/L	0	10	
Vanadium	2.3536	2.2637	150.0	162.1	ug/L	8	10	
Zinc	0.4171	0.3224	150.0	153.8	ug/L	3	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1146258	0.57
Scandium	634190	627622	-1.04
Germanium	133389	131030	-1.77
Indium	777897	765545	-1.59
Bismuth	641813	578214	-9.91

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987179 File : c2517179 Time : 26-MAR-2006 09:38
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.6555	150.0	158.9	ug/L	6	10	
Antimony	0.1796	0.1345	150.0	159.6	ug/L	6	10	
Arsenic	0.3225	0.2873	150.0	150.5	ug/L	0	10	
Barium	0.0659	0.0650	150.0	159.0	ug/L	6	10	
Beryllium	0.1182	0.1138	150.0	156.8	ug/L	5	10	
Cadmium	0.3603	0.2724	150.0	158.3	ug/L	6	10	
Calcium	0.0133	0.0122	15000	15200	ug/L	1	10	
Chromium	2.5425	1.9352	150.0	166.9	ug/L	**11**	10	c+ ***
Cobalt	2.3244	2.3799	150.0	160.3	ug/L	7	10	
Copper	0.6383	0.5881	150.0	150.9	ug/L	1	10	
Iron	0.0578	0.0555	15000	16350	ug/L	9	10	
Lead	0.7261	0.6970	150.0	145.9	ug/L	-3	10	
Magnesium	0.0753	0.0736	15000	15720	ug/L	5	10	
Manganese	2.5751	2.5530	150.0	164.3	ug/L	10	10	
Molybdenum	0.5509	0.5367	150.0	150.5	ug/L	0	10	
Nickel	0.5202	0.5003	150.0	156.4	ug/L	4	10	
Potassium	0.6373	0.4481	15000	14740	ug/L	-2	10	
Selenium	0.0372	0.0284	150.0	152.2	ug/L	1	10	
Silver	1.6971	1.3707	150.0	156.8	ug/L	5	10	
Sodium	0.7420	0.7310	15000	16280	ug/L	9	10	
Thallium	0.5159	0.5297	150.0	151.2	ug/L	1	10	
Vanadium	2.3536	2.2918	150.0	164.2	ug/L	9	10	
Zinc	0.4171	0.3291	150.0	157.0	ug/L	5	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1110785	-2.55
Scandium	634190	551473	-13.04
Germanium	133389	120272	-9.83
Indium	777897	702223	-9.73
Bismuth	641813	582476	-9.25

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987186 File : c2517186 Time : 26-MAR-2006 10:17
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.6420	0.7237	150.0	175.6	ug/L	**17**	10	c+ ***
Antimony	0.1796	0.1292	150.0	153.3	ug/L	2	10	
Arsenic	0.3225	0.2805	150.0	147.0	ug/L	-2	10	
Barium	0.0659	0.0628	150.0	153.5	ug/L	2	10	
Beryllium	0.1182	0.1171	150.0	161.3	ug/L	8	10	
Cadmium	0.3603	0.2672	150.0	155.3	ug/L	4	10	
Calcium	0.0133	0.0131	15000	16300	ug/L	9	10	
Chromium	2.5425	1.8703	150.0	161.3	ug/L	8	10	
Cobalt	2.3244	2.3428	150.0	157.8	ug/L	5	10	
Copper	0.6383	0.5862	150.0	150.4	ug/L	0	10	
Iron	0.0578	0.0545	15000	16040	ug/L	7	10	
Lead	0.7261	0.7062	150.0	147.8	ug/L	-1	10	
Magnesium	0.0753	0.0783	15000	16720	ug/L	**11**	10	c+ ***
Manganese	2.5751	2.5560	150.0	164.5	ug/L	10	10	
Molybdenum	0.5509	0.5295	150.0	148.5	ug/L	-1	10	
Nickel	0.5202	0.4899	150.0	153.1	ug/L	2	10	
Potassium	0.6373	0.4777	15000	15720	ug/L	5	10	
Selenium	0.0372	0.0279	150.0	149.1	ug/L	-1	10	
Silver	1.6971	1.3519	150.0	154.6	ug/L	3	10	
Sodium	0.7420	0.7942	15000	17690	ug/L	**18**	10	c+ ***
Thallium	0.5159	0.5203	150.0	148.5	ug/L	-1	10	
Vanadium	2.3536	2.2022	150.0	157.7	ug/L	5	10	
Zinc	0.4171	0.3256	150.0	155.3	ug/L	4	10	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1097983	-3.67
Scandium	634190	514757	-18.83
Germanium	133389	121934	-8.59
Indium	777897	729966	-6.16
Bismuth	641813	579541	-9.70

+=high bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987014 File : c2517014 Time : 25-MAR-2006 18:23
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	0.3810	0.2500	0.03394	ug/L	ib ***
Arsenic	[0.1983]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.01226]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.01587]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01746]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.01849]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2474]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1841]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1100289	-3.47
Scandium	634190	603776	-4.80
Germanium	133389	131176	-1.66
Indium	777897	768003	-1.27
Bismuth	641813	612511	-4.57

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987029 File : c2517029 Time : 25-MAR-2006 19:46
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1049]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.01272]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01128]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.03267]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1071784	-5.97
Scandium	634190	544066	-14.21
Germanium	133389	127891	-4.12
Indium	777897	761628	-2.09
Bismuth	641813	639000	-0.44

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987043 File : c2517043 Time : 25-MAR-2006 21:03
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.07725]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1515]	0.5000	0.09029	ug/L	!ib
Barium	[0.02682]	0.2500	0.02391	ug/L	!ib
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.07091]	0.5000	0.03860	ug/L	!ib
Cobalt	[0.01611]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01140]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.01946]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.03705]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	[0.1202]	1.000	0.09577	ug/L	!ib

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1120370	-1.71
Scandium	634190	525881	-17.08
Germanium	133389	131000	-1.79
Indium	777897	764880	-1.67
Bismuth	641813	640607	-0.19

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987062 File : c2517062 Time : 25-MAR-2006 22:48
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.07487]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1302]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.009253]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01342]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2558]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.02297]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1073848	-5.79
Scandium	634190	503446	-20.62
Germanium	133389	120349	-9.78
Indium	777897	748345	-3.80
Bismuth	641813	640870	-0.15

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987076 File : c2517076 Time : 26-MAR-2006 00:05
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1109]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.06084]	0.5000	0.03860	ug/L	!ib
Cobalt	[0.009559]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.009410]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.02187]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1111324	-2.50
Scandium	634190	541147	-14.67
Germanium	133389	126089	-5.47
Indium	777897	778141	0.03
Bismuth	641813	637173	-0.72

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987090 File : c2517090 Time : 26-MAR-2006 01:23
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	[0.2245]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.04980]	0.5000	0.03860	ug/L	!ib
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.005396]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2101]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1133391	-0.56
Scandium	634190	541140	-14.67
Germanium	133389	126441	-5.21
Indium	777897	782619	0.61
Bismuth	641813	650301	1.32

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987099 File : c2517099 Time : 26-MAR-2006 02:13
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.05149]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	[0.02873]	0.2500	0.02391	ug/L	!ib
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.009781]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.009906]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.02093]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1073894	-5.78
Scandium	634190	501583	-20.91
Germanium	133389	122881	-7.88
Indium	777897	773944	-0.51
Bismuth	641813	646434	0.72

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987113 File : c2517113 Time : 26-MAR-2006 03:32
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.009308]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.02610]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1085746	-4.74
Scandium	634190	521946	-17.70
Germanium	133389	123756	-7.22
Indium	777897	769437	-1.09
Bismuth	641813	627016	-2.31

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987126 File : c2517126 Time : 26-MAR-2006 04:44
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.01176]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.07172]	0.5000	0.03860	ug/L	!ib
Cobalt	[0.01989]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.02045]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.02815]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1086521	-4.68
Scandium	634190	548533	-13.51
Germanium	133389	125226	-6.12
Indium	777897	762596	-1.97
Bismuth	641813	614903	-4.19

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987141 File : c2517141 Time : 26-MAR-2006 06:07
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	[0.2351]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.01095]	0.2500	0.009674	ug/L	!ib
Cadmium	[0.05193]	0.2500	0.04566	ug/L	!ib
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.06947]	0.5000	0.03860	ug/L	!ib
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01307]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1503]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1158421	1.63
Scandium	634190	600105	-5.37
Germanium	133389	128008	-4.03
Indium	777897	783400	0.71
Bismuth	641813	620493	-3.32

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987158 File : c2517158 Time : 26-MAR-2006 07:41
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.05171]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.01144]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.06108]	0.5000	0.03860	ug/L	!ib
Cobalt	[0.01252]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01606]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.07076]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.02273]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1124218	-1.37
Scandium	634190	560923	-11.55
Germanium	133389	124976	-6.31
Indium	777897	711148	-8.58
Bismuth	641813	580933	-9.49

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987172 File : c2517172 Time : 26-MAR-2006 09:00
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.07033]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1992]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.01504]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.1130]	0.5000	0.03860	ug/L	!ib
Cobalt	[0.01477]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	[7.184]	50.00	6.980	ug/L	!ib
Lead	[0.01491]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.03342]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1203551	5.59
Scandium	634190	609504	-3.89
Germanium	133389	128322	-3.80
Indium	777897	755770	-2.84
Bismuth	641813	594769	-7.33

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987181 File : c2517181 Time : 26-MAR-2006 09:49
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	[0.03342]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.01025]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.04618]	0.5000	0.03860	ug/L	!ib
Cobalt	[0.008954]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01437]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1107452	-2.84
Scandium	634190	534832	-15.67
Germanium	133389	118854	-10.90
Indium	777897	713139	-8.32
Bismuth	641813	597288	-6.94

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987188 File : c2517188 Time : 26-MAR-2006 10:28
Cal : 56121987001 Caldate: 25-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	1153515	1.20
Scandium	634190	542398	-14.47
Germanium	133389	124282	-6.83
Indium	777897	761284	-2.14
Bismuth	641813	622558	-3.00

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987015 File : c2517015 Time : 25-MAR-2006 18:29
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	104700	ug/L	5		
Arsenic	100.0	99.11	ug/L	-1	20	
Cadmium	100.0	89.07	ug/L	-11	20	
Calcium	300000	339900	ug/L	13		
Chromium	200.0	234.0	ug/L	17	20	
Cobalt	200.0	225.3	ug/L	13	20	
Copper	200.0	192.3	ug/L	-4	20	
Iron	250000	268400	ug/L	7		
Magnesium	100000	112800	ug/L	13		
Manganese	200.0	233.7	ug/L	17	20	
Molybdenum	2000	2242	ug/L	12		
Nickel	200.0	207.6	ug/L	4	20	
Potassium	100000	108700	ug/L	9		
Selenium	100.0	81.51	ug/L	-18	20	
Silver	50.00	46.19	ug/L	-8	20	
Sodium	250000	289100	ug/L	16		
Vanadium	200.0	235.7	ug/L	18	20	
Zinc	100.0	80.75	ug/L	-19	20	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Scandium	634190	466890	-26.38
Germanium	133389	110042	-17.50

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987016 File : c2517016 Time : 25-MAR-2006 18:34
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.946	0.2500	ug/L	
Arsenic	0.7101	0.5000	ug/L	
Barium	1.173	0.2500	ug/L	
Beryllium	[0.008757]	0.2500	ug/L	
Cadmium	[0.1108]	0.2500	ug/L	
Chromium	2.143	0.5000	ug/L	
Cobalt	3.311	0.2500	ug/L	
Copper	2.145	0.5000	ug/L	
Lead	1.411	0.2500	ug/L	
Manganese	1.289	0.2500	ug/L	
Nickel	2.485	0.2500	ug/L	
Selenium	[0.3048]	0.5000	ug/L	
Silver	[0.1309]	0.2500	ug/L	
Thallium	[0.06303]	0.5000	ug/L	
Vanadium	[0.3017]	1.000	ug/L	
Zinc	3.143	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	103400	ug/L	103
Calcium	300000	348400	ug/L	116
Iron	250000	281200	ug/L	112
Magnesium	100000	111300	ug/L	111
Molybdenum	2000	2292	ug/L	115
Potassium	100000	108500	ug/L	109
Sodium	250000	292600	ug/L	117

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	847328	-25.66
Scandium	634190	453404	-28.51
Germanium	133389	108022	-19.02
Indium	777897	613455	-21.14
Bismuth	641813	437540	-31.83

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987051 File : c2517051 Time : 25-MAR-2006 21:47
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.574	0.2500	ug/L	
Arsenic	0.8331	0.5000	ug/L	
Barium	1.124	0.2500	ug/L	
Beryllium	[0.02156]	0.2500	ug/L	
Cadmium	[0.05292]	0.2500	ug/L	
Chromium	2.004	0.5000	ug/L	
Cobalt	3.213	0.2500	ug/L	
Copper	2.219	0.5000	ug/L	
Lead	1.346	0.2500	ug/L	
Manganese	1.264	0.2500	ug/L	
Nickel	2.285	0.2500	ug/L	
Selenium	0.6368	0.5000	ug/L	
Silver	[0]	0.2500	ug/L	
Thallium	[0.1215]	0.5000	ug/L	
Vanadium	[0.2434]	1.000	ug/L	
Zinc	3.194	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	96790	ug/L	97
Calcium	300000	329800	ug/L	110
Iron	250000	277700	ug/L	111
Magnesium	100000	105500	ug/L	106
Molybdenum	2000	2285	ug/L	114
Potassium	100000	100000	ug/L	100
Sodium	250000	277500	ug/L	111

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	845474	-25.82
Scandium	634190	432354	-31.83
Germanium	133389	103499	-22.41
Indium	777897	618021	-20.55
Bismuth	641813	443853	-30.84

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987053 File : c2517053 Time : 25-MAR-2006 21:58
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	96260	ug/L	-4		
Arsenic	100.0	91.56	ug/L	-8	20	
Cadmium	100.0	89.71	ug/L	-10	20	
Calcium	300000	334200	ug/L	11		
Chromium	200.0	221.9	ug/L	11	20	
Cobalt	200.0	216.3	ug/L	8	20	
Copper	200.0	179.8	ug/L	-10	20	
Iron	250000	273900	ug/L	10		
Magnesium	100000	104300	ug/L	4		
Manganese	200.0	229.2	ug/L	15	20	
Molybdenum	2000	2295	ug/L	15		
Nickel	200.0	196.4	ug/L	-2	20	
Potassium	100000	100700	ug/L	1		
Selenium	100.0	80.92	ug/L	-19	20	
Silver	50.00	45.10	ug/L	-10	20	
Sodium	250000	272900	ug/L	9		
Vanadium	200.0	221.1	ug/L	11	20	
Zinc	100.0	83.06	ug/L	-17	20	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Scandium	634190	409139	-35.49
Germanium	133389	97933	-26.58

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987127 File : c2517127 Time : 26-MAR-2006 04:50
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.625	0.2500	ug/L	
Arsenic	0.8609	0.5000	ug/L	
Barium	1.116	0.2500	ug/L	
Beryllium	[0.008506]	0.2500	ug/L	
Cadmium	[0.2117]	0.2500	ug/L	
Chromium	2.121	0.5000	ug/L	
Cobalt	3.307	0.2500	ug/L	
Copper	2.212	0.5000	ug/L	
Lead	1.299	0.2500	ug/L	
Manganese	1.275	0.2500	ug/L	
Nickel	2.463	0.2500	ug/L	
Selenium	0.7295	0.5000	ug/L	
Silver	[0]	0.2500	ug/L	
Thallium	[0.02630]	0.5000	ug/L	
Vanadium	[0.1900]	1.000	ug/L	
Zinc	2.994	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	102300	ug/L	102
Calcium	300000	340600	ug/L	114
Iron	250000	284500	ug/L	114
Magnesium	100000	111700	ug/L	112
Molybdenum	2000	2275	ug/L	114
Potassium	100000	106000	ug/L	106
Sodium	250000	292500	ug/L	117

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	785562	-31.08
Scandium	634190	401529	-36.69
Germanium	133389	93809	-29.67
Indium	777897	541410	-30.40
Bismuth	641813	404787	-36.93

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987129 File : c2517129 Time : 26-MAR-2006 05:00
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	102700	ug/L	3		
Arsenic	100.0	93.75	ug/L	-6	20	
Cadmium	100.0	89.78	ug/L	-10	20	
Calcium	300000	340400	ug/L	13		
Chromium	200.0	236.0	ug/L	18	20	
Cobalt	200.0	225.5	ug/L	13	20	
Copper	200.0	185.0	ug/L	-8	20	
Iron	250000	285100	ug/L	14		
Magnesium	100000	108000	ug/L	8		
Manganese	200.0	237.8	ug/L	19	20	
Molybdenum	2000	2319	ug/L	16		
Nickel	200.0	201.8	ug/L	1	20	
Potassium	100000	106000	ug/L	6		
Selenium	100.0	82.53	ug/L	-17	20	
Silver	50.00	45.50	ug/L	-9	20	
Sodium	250000	279800	ug/L	12		
Vanadium	200.0	235.5	ug/L	18	20	
Zinc	100.0	86.17	ug/L	-14	20	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Scandium	634190	393873	-37.89
Germanium	133389	90344	-32.27

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987175 File : c2517175 Time : 26-MAR-2006 09:16
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	107000	ug/L	7		
Arsenic	100.0	92.94	ug/L	-7	20	
Cadmium	100.0	86.95	ug/L	-13	20	
Calcium	300000	344200	ug/L	15		
Chromium	200.0	231.8	ug/L	16	20	
Cobalt	200.0	222.7	ug/L	11	20	
Copper	200.0	185.1	ug/L	-7	20	
Iron	250000	280000	ug/L	12		
Magnesium	100000	113700	ug/L	14		
Manganese	200.0	236.2	ug/L	18	20	
Molybdenum	2000	2279	ug/L	14		
Nickel	200.0	201.0	ug/L	1	20	
Potassium	100000	108500	ug/L	9		
Selenium	100.0	80.55	ug/L	-19	20	
Silver	50.00	44.07	ug/L	-12	20	
Sodium	250000	291200	ug/L	16		
Vanadium	200.0	232.6	ug/L	16	20	
Zinc	100.0	85.08	ug/L	-15	20	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Scandium	634190	405554	-36.05
Germanium	133389	92414	-30.72

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987182 File : c2517182 Time : 26-MAR-2006 09:55
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.411	0.2500	ug/L	
Arsenic	0.5824	0.5000	ug/L	
Barium	1.194	0.2500	ug/L	
Beryllium	[0.01251]	0.2500	ug/L	
Cadmium	[0.1288]	0.2500	ug/L	
Chromium	1.980	0.5000	ug/L	
Cobalt	3.207	0.2500	ug/L	
Copper	2.222	0.5000	ug/L	
Lead	1.224	0.2500	ug/L	
Manganese	1.215	0.2500	ug/L	
Nickel	2.601	0.2500	ug/L	
Selenium	0.6108	0.5000	ug/L	
Silver	[0]	0.2500	ug/L	
Thallium	[0.04881]	0.5000	ug/L	
Vanadium	[0.2199]	1.000	ug/L	
Zinc	2.745	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	99540	ug/L	100
Calcium	300000	330000	ug/L	110
Iron	250000	273100	ug/L	109
Magnesium	100000	106300	ug/L	106
Molybdenum	2000	2186	ug/L	109
Potassium	100000	103400	ug/L	103
Sodium	250000	276700	ug/L	111

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Lithium	1139817	844702	-25.89
Scandium	634190	440154	-30.60
Germanium	133389	97686	-26.77
Indium	777897	551046	-29.16
Bismuth	641813	411258	-35.92

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56121987183 File : c2517183 Time : 26-MAR-2006 10:01
Cal : 56121987001 Caldate: 25-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	101800	ug/L	2		
Arsenic	100.0	98.84	ug/L	-1	20	
Cadmium	100.0	88.83	ug/L	-11	20	
Calcium	300000	337400	ug/L	12		
Chromium	200.0	246.3	ug/L	**23**	20	ab+ ***
Cobalt	200.0	232.1	ug/L	16	20	
Copper	200.0	190.4	ug/L	-5	20	
Iron	250000	274900	ug/L	10		
Magnesium	100000	109500	ug/L	10		
Manganese	200.0	245.4	ug/L	**23**	20	ab+ ***
Molybdenum	2000	2253	ug/L	13		
Nickel	200.0	211.2	ug/L	6	20	
Potassium	100000	106200	ug/L	6		
Selenium	100.0	86.64	ug/L	-13	20	
Silver	50.00	45.86	ug/L	-8	20	
Sodium	250000	283600	ug/L	13		
Vanadium	200.0	250.6	ug/L	**25**	20	ab+ ***
Zinc	100.0	86.02	ug/L	-14	20	

ISTD (ICALBLK c2517003)	ICALBLK Abund	Abund	%Drift
Scandium	634190	421953	-33.47
Germanium	133389	94857	-28.89

+=high bias ab=ICSAB

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56121987 Instrument: MET05 Agilent ICP-MS Begun: 25-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	c2517001	TUN				25-MAR-2006 17:07	1.0	1.0				1	
003	c2517003	ICALBLK	std-blk			25-MAR-2006 17:19	1.0	1.0				2	
004	c2517004	ICAL	CS1			25-MAR-2006 17:25	1.0	1.0				3	
005	c2517005	ICAL	CS2			25-MAR-2006 17:30	1.0	1.0				4	
006	c2517006	ICAL	CS3			25-MAR-2006 17:36	1.0	1.0				5	
007	c2517007	ICAL	CS4			25-MAR-2006 17:41	1.0	1.0				6	
008	c2517008	ICAL	CS5			25-MAR-2006 17:47	1.0	1.0				7	
009	c2517009	ICAL	CS6			25-MAR-2006 17:52	1.0	1.0				8	
013	c2517013	ICV				25-MAR-2006 18:18	1.0	1.0			1	9 2	
014	c2517014	ICB				25-MAR-2006 18:23	1.0	1.0	1		1	2	
015	c2517015	ICSAB				25-MAR-2006 18:29	1.0	1.0			1	10 2	12:CA=339900
016	c2517016	ICSA				25-MAR-2006 18:34	1.0	1.0			1	11 2	7:CA=348400
019	c2517019	BLANK	QC332965	111659	Water	25-MAR-2006 18:51	1.0	1.0			1	2	
020	c2517020	BS	QC332966	111659	Water	25-MAR-2006 18:56	1.0	1.0			1	2	
021	c2517021	BSD	QC332967	111659	Water	25-MAR-2006 19:02	1.0	1.0		3	1	2 spk	
022	c2517022	MSS	185408-008	111659	Water	25-MAR-2006 19:07	1.0	1.0	4		1	2 spk	3:NA=252[illegible]0.0
023	c2517023	SER	QC332972	111659	Water	25-MAR-2006 19:13	5.0	1.0		5	1	2	1:AL=1231.80
024	c2517024	MSS	185408-008	111659	Water	25-MAR-2006 19:18	20.0	1.0	1		1	2 spk	1:AL=369.650
025	c2517025	SER	QC332972	111659	Water	25-MAR-2006 19:24	100.0	1.0		1	1	2	
026	c2517026	CCV				25-MAR-2006 19:29	1.0	1.0			1	12 2	
029	c2517029	CCB				25-MAR-2006 19:46	1.0	1.0			1	2	
030	c2517030	MS	QC332968	111659	Water	25-MAR-2006 19:51	1.0	1.0	6		1	2	7:NA=36540.0
031	c2517031	MSD	QC332969	111659	Water	25-MAR-2006 19:57	1.0	1.0	6		1	2	7:NA=35540.0
032	c2517032	PDS	QC332973	111659	Water	25-MAR-2006 20:02	1.0	1.0	4		1	13 2	7:NA=38500.0
033	c2517033	MS	QC332968	111659	Water	25-MAR-2006 20:08	20.0	1.0		1	1	2	1:AL=433.300
034	c2517034	MSD	QC332969	111659	Water	25-MAR-2006 20:13	20.0	1.0			1	2	1:AL=411.050
035	c2517035	PDS	QC332973	111659	Water	25-MAR-2006 20:19	20.0	1.0			1	13 2	1:AL=418.850
036	c2517036	MSS	185408-010	111659	Water	25-MAR-2006 20:25	1.0	1.0	5		1	2 spk	5:NA=52530.0
037	c2517037	SAMPLE	185408-009	111659	Water	25-MAR-2006 20:30	1.0	1.0	2		1	2 spk	2:NA=23620.0
038	c2517038	SAMPLE	185408-009	111659	Water	25-MAR-2006 20:35	20.0	1.0	1		1	2 spk	1:AL=317.400

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2894 11=S2893 12=S2896 13=S2309 14=S28
Flags used: spk=5% spike rule

Analyst: [illegible] Date: 3/28/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56121987 Instrument: MET05 Agilent ICP-MS Begun: 25-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
040	c2517040	CCV				25-MAR-2006 20:47	1.0	1.0			1	12 2	
043	c2517043	CCB				25-MAR-2006 21:03	1.0	1.0			1	2	
044	c2517044	MS	QC332970	111659	Water	25-MAR-2006 21:09	1.0	1.0	3		1	2	6:NA=60660.0
045	c2517045	MSD	QC332971	111659	Water	25-MAR-2006 21:14	1.0	1.0	3		1	2	6:NA=60550.0
046	c2517046	MSS	185408-010	111659	Water	25-MAR-2006 21:20	20.0	1.0	2		1	2 spk	1:AL=222.750
047	c2517047	MS	QC332970	111659	Water	25-MAR-2006 21:25	20.0	1.0		1	1	2	
048	c2517048	MSD	QC332971	111659	Water	25-MAR-2006 21:31	20.0	1.0		1	1	2	
049	c2517049	SAMPLE	185408-011	111659	Water	25-MAR-2006 21:36	1.0	1.0	5		1	2 spk	5:NA=48350.0
050	c2517050	SAMPLE	185408-011	111659	Water	25-MAR-2006 21:42	20.0	1.0	2		1	2 spk	1:AL=234.950
051	c2517051	ICSA				25-MAR-2006 21:47	1.0	1.0			1	11 2	7:CA=329800
053	c2517053	ICSAB				25-MAR-2006 21:58	1.0	1.0			1	10 2	11:CA=334200
059	c2517059	CCV				25-MAR-2006 22:31	1.0	1.0	1		1	12 2	
062	c2517062	CCB				25-MAR-2006 22:48	1.0	1.0			1	2	
063	c2517063	SAMPLE	185586-023	111436	Filtra	25-MAR-2006 22:53	1.0	1.0	1		1	2	
064	c2517064	SAMPLE	185586-024	111436	Filtra	25-MAR-2006 22:59	1.0	1.0	3		1	2	3:MG=64630.0
065	c2517065	SAMPLE	185586-025	111436	Filtra	25-MAR-2006 23:04	1.0	1.0	2		1	2	2:MG=52820.0
066	c2517066	SAMPLE	185586-026	111436	Filtra	25-MAR-2006 23:10	1.0	1.0	3		1	2	3:NA=66300.0
067	c2517067	SAMPLE	185586-001	111436	Filtra	25-MAR-2006 23:15	20.0	1.0	1		1	2	
068	c2517068	SAMPLE	185586-002	111436	Filtra	25-MAR-2006 23:21	20.0	1.0	2		1	2	1:MN=212.200
069	c2517069	SAMPLE	185586-003	111436	Filtra	25-MAR-2006 23:27	20.0	1.0	1		1	2	
070	c2517070	SAMPLE	185586-018	111436	Filtra	25-MAR-2006 23:32	20.0	1.0	1		1	2	
071	c2517071	SAMPLE	185586-019	111436	Filtra	25-MAR-2006 23:38	20.0	1.0	1		1	2	
073	c2517073	CCV				25-MAR-2006 23:49	1.0	1.0			1	12 2	
076	c2517076	CCB				26-MAR-2006 00:05	1.0	1.0			1	2	
077	c2517077	SAMPLE	185586-020	111436	Filtra	26-MAR-2006 00:11	20.0	1.0	3		1	2	
078	c2517078	SAMPLE	185586-021	111436	Filtra	26-MAR-2006 00:17	20.0	1.0	3		1	2	
079	c2517079	SAMPLE	185586-022	111436	Filtra	26-MAR-2006 00:22	20.0	1.0	1		1	2	
080	c2517080	SAMPLE	185586-023	111436	Filtra	26-MAR-2006 00:28	20.0	1.0	1		1	2	
081	c2517081	SAMPLE	185586-024	111436	Filtra	26-MAR-2006 00:33	20.0	1.0	1		1	2	
082	c2517082	SAMPLE	185586-025	111436	Filtra	26-MAR-2006 00:39	20.0	1.0	1		1	2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2894 11=S2893 12=S2896 13=S2309 14=S28
Flags used: spk=5% spike rule

Analyst: [signature] Date: 3/30/0

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56121987 Instrument: MET05 Agilent ICP-MS Begun: 25-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
083	c2517083	SAMPLE	185586-026	111436	Filtra	26-MAR-2006 00:44	20.0	1.0	1		1	2	
084	c2517084	SAMPLE	185558-011	111421	Filtra	26-MAR-2006 00:50	1.0	1.0	6		1	2	4:NA=160600
085	c2517085	SAMPLE	185558-012	111421	Filtra	26-MAR-2006 00:56	1.0	1.0	7		1	2	4:MG=91140.0
086	c2517086	SAMPLE	185558-013	111421	Filtra	26-MAR-2006 01:01	1.0	1.0	6		1	2	3:MG=102800
088	c2517088	CCV			Filtra	26-MAR-2006 01:12	1.0	1.0	6		1	14 2	
090	c2517090	CCB			Filtra	26-MAR-2006 01:23	1.0	1.0			1	2	
091	c2517091	SAMPLE	185558-014	111421	Filtra	26-MAR-2006 01:29	1.0	1.0	6		1	2	4:MG=157400
092	c2517092	SAMPLE	185558-015	111421	Filtra	26-MAR-2006 01:34	1.0	1.0	5		1	2	3:NA=59300.0
093	c2517093	SAMPLE	185558-016	111421	Filtra	26-MAR-2006 01:40	1.0	1.0	5		1	2	4:MG=63060.0
094	c2517094	SAMPLE	185558-017	111421	Filtra	26-MAR-2006 01:45	1.0	1.0	3		1	2	2:NA=154800
095	c2517095	SAMPLE	185558-018	111421	Filtra	26-MAR-2006 01:51	1.0	1.0	5		1	2	3:NA=160000
097	c2517097	CCV				26-MAR-2006 02:02	1.0	1.0	8		1	14 2	
099	c2517099	CCB				26-MAR-2006 02:13	1.0	1.0			1	2	
100	c2517100	TUN				26-MAR-2006 02:19	1.0	1.0				1	
101	c2517101	SAMPLE	185558-019	111421	Filtra	26-MAR-2006 02:25	1.0	1.0	5		1	2	6:CA=94520.0
102	c2517102	SAMPLE	185558-020	111421	Filtra	26-MAR-2006 02:31	1.0	1.0	5		1	2	4:CA=82420.0
103	c2517103	SAMPLE	185558-022	111421	Filtra	26-MAR-2006 02:36	1.0	1.0	6		1	2	7:CA=133700
104	c2517104	SAMPLE	185558-026	111421	Filtra	26-MAR-2006 02:42	1.0	1.0	5		1	2	4:NA=65320.0
105	c2517105	SAMPLE	185558-027	111421	Filtra	26-MAR-2006 02:47	1.0	1.0	4		1	2	1:NA=316300
106	c2517106	SAMPLE	185558-011	111421	Filtra	26-MAR-2006 02:53	20.0	1.0	4		1	2	
107	c2517107	SAMPLE	185558-012	111421	Filtra	26-MAR-2006 02:58	20.0	1.0	2		1	2	
108	c2517108	SAMPLE	185558-013	111421	Filtra	26-MAR-2006 03:04	20.0	1.0	2		1	2	
109	c2517109	SAMPLE	185558-014	111421	Filtra	26-MAR-2006 03:09	20.0	1.0	3		1	2	
111	c2517111	CCV				26-MAR-2006 03:21	1.0	1.0	8		1	14 2	
113	c2517113	CCB				26-MAR-2006 03:32	1.0	1.0			1	2	
114	c2517114	SAMPLE	185558-015	111421	Filtra	26-MAR-2006 03:37	20.0	1.0	2		1	2	
115	c2517115	SAMPLE	185558-016	111421	Filtra	26-MAR-2006 03:43	20.0	1.0	4		1	2	
116	c2517116	SAMPLE	185558-017	111421	Filtra	26-MAR-2006 03:48	20.0	1.0	3		1	2	
117	c2517117	SAMPLE	185558-018	111421	Filtra	26-MAR-2006 03:54	20.0	1.0	3		1	2	
118	c2517118	SAMPLE	185558-019	111421	Filtra	26-MAR-2006 04:00	20.0	1.0	4		1	2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2894 11=S2893 12=S2896 13=S2309 14=S28
Flags used: spk=5% spike rule

Analyst: _____ Date: 3/25/6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56121987 Instrument: MET05 Agilent ICP-MS Begun: 25-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
119	c2517119	SAMPLE	185558-020	111421	Filtra	26-MAR-2006 04:05	20.0	1.0	4		1	2	
120	c2517120	SAMPLE	185558-022	111421	Filtra	26-MAR-2006 04:11	20.0	1.0	4		1	2	
121	c2517121	SAMPLE	185558-026	111421	Filtra	26-MAR-2006 04:16	20.0	1.0	3		1	2	
122	c2517122	SAMPLE	185558-027	111421	Filtra	26-MAR-2006 04:22	20.0	1.0	1		1	2	
124	c2517124	CCV				26-MAR-2006 04:33	1.0	1.0	7		1	14 2	
126	c2517126	CCB				26-MAR-2006 04:44	1.0	1.0			1	2	
127	c2517127	ICSA				26-MAR-2006 04:50	1.0	1.0			1	11 2	7:CA=340600
129	c2517129	ICSAB				26-MAR-2006 05:00	1.0	1.0			1	10 2	12:CA=340400
131	c2517131	BLANK	QC332485	111547	Filtra	26-MAR-2006 05:11	1.0	1.0	7		1	2	
132	c2517132	BS	QC332486	111547	Filtra	26-MAR-2006 05:17	1.0	1.0	7	1	1	2	
133	c2517133	BSD	QC332487	111547	Filtra	26-MAR-2006 05:22	1.0	1.0	7	11	1	2 spk	
134	c2517134	MSS	185414-001	111547	Filtra	26-MAR-2006 05:28	1.0	1.0	5		1	2 spk	1:NA=21870.0
135	c2517135	SER	QC332490	111547	Filtra	26-MAR-2006 05:34	5.0	1.0			1	2	
136	c2517136	MS	QC332488	111547	Filtra	26-MAR-2006 05:39	1.0	1.0	3		1	2	2:NA=34740.0
137	c2517137	MSD	QC332489	111547	Filtra	26-MAR-2006 05:45	1.0	1.0	3	1	1	2	2:NA=32750.0
139	c2517139	CCV				26-MAR-2006 05:56	1.0	1.0	2		1	14 2	
141	c2517141	CCB				26-MAR-2006 06:07	1.0	1.0			1	2	
146	c2517146	SAMPLE	185414-002	111547	Filtra	26-MAR-2006 06:34	1.0	1.0	2		1	2 spk	1:NA=37960.0
147	c2517147	SAMPLE	185414-003	111547	Filtra	26-MAR-2006 06:40	1.0	1.0	2		1	2 spk	1:NA=42380.0
148	c2517148	SAMPLE	185414-004	111547	Filtra	26-MAR-2006 06:46	1.0	1.0	1		1	2 spk	2:CA=34290.0
149	c2517149	SAMPLE	185414-005	111547	Filtra	26-MAR-2006 06:51	1.0	1.0	1		1	2 spk	4:CA=41030.0
150	c2517150	SAMPLE	185414-006	111547	Filtra	26-MAR-2006 06:57	1.0	1.0	2		1	2 spk	1:NA=46520.0
151	c2517151	SAMPLE	185414-007	111547	Filtra	26-MAR-2006 07:02	1.0	1.0	2		1	2 spk	3:CA=45570.0
152	c2517152	SAMPLE	185414-008	111547	Filtra	26-MAR-2006 07:08	1.0	1.0	2		1	2 spk	2:NA=23960.0
153	c2517153	SAMPLE	185414-009	111547	Filtra	26-MAR-2006 07:13	1.0	1.0	4		1	2 spk	6:CA=95500.0
154	c2517154	SAMPLE	185414-010	111547	Filtra	26-MAR-2006 07:19	1.0	1.0	2		1	2 spk	4:CA=44360.0
156	c2517156	CCV				26-MAR-2006 07:30	1.0	1.0	6		1	14 2	
158	c2517158	CCB				26-MAR-2006 07:41	1.0	1.0			1	2	
159	c2517159	TUN				26-MAR-2006 07:47	1.0	1.0				1	
160	c2517160	SAMPLE	185414-011	111547	Filtra	26-MAR-2006 07:53	1.0	1.0	3		1	2 spk	3:FE=51060.0

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2894 11=S2893 12=S2896 13=S2309 14=S28
Flags used: spk=5% spike rule

Analyst: [signature] Date: 3/28/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56121987 Instrument: MET05 Agilent ICP-MS Begun: 25-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
161	c2517161	SAMPLE	185414-012	111547	Filtra	26-MAR-2006 07:59	1.0	1.0	2		1	2 spk	1:NA=39240.0
162	c2517162	SAMPLE	185414-013	111547	Filtra	26-MAR-2006 08:04	1.0	1.0	2		1	2 spk	1:NA=31470.0
163	c2517163	SAMPLE	185683-001	111547	Water	26-MAR-2006 08:10	1.0	1.0	1		1	2 spk	3:NA=81660.0
164	c2517164	SAMPLE	185684-001	111547	Water	26-MAR-2006 08:15	1.0	1.0	1		1	2 spk	1:AL=757.400
165	c2517165	SAMPLE	185685-001	111547	Water	26-MAR-2006 08:21	1.0	1.0	1		1	2 spk	2:NA=88630.0
166	c2517166	SAMPLE	185686-001	111547	Water	26-MAR-2006 08:27	1.0	1.0	1		1	2 spk	2:NA=66820.0
167	c2517167	SAMPLE	185687-001	111547	Water	26-MAR-2006 08:32	1.0	1.0	1		1	2 spk	
168	c2517168	SAMPLE	185688-001	111547	Water	26-MAR-2006 08:38	1.0	1.0	1		1	2 spk	1:AL=2407.00
170	c2517170	CCV				26-MAR-2006 08:49	1.0	1.0	2		1	14 2	
172	c2517172	CCB				26-MAR-2006 09:00	1.0	1.0			1	2	
175	c2517175	ICSAB				26-MAR-2006 09:16	1.0	1.0			1	10 2	12:CA=344200
179	c2517179	CCV				26-MAR-2006 09:38	1.0	1.0	1		1	14 2	
181	c2517181	CCB				26-MAR-2006 09:49	1.0	1.0			1	2	
182	c2517182	ICSA				26-MAR-2006 09:55	1.0	1.0			1	11 2	7:CA=330000
183	c2517183	ICSAB				26-MAR-2006 10:01	1.0	1.0	3		1	10 2	12:CA=337400
186	c2517186	CCV				26-MAR-2006 10:17	1.0	1.0	3		1	14 2	64
188	c2517188	CCB				26-MAR-2006 10:28	1.0	1.0			1	2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2894 11=S2893 12=S2896 13=S2309 14=S28
Flags used: spk=5% spike rule

Analyst: [signature] Date: 3/28/6

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56127810001
Units : ug/L

Date : 29-MAR-2006 18:22
X Axis : R

Reviewer: ---
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	c2918004	56127810004	CS1	29-MAR-2006 18:27	S2889
L2	c2918005	56127810005	CS2	29-MAR-2006 18:33	S2890
L3	c2918006	56127810006	CS3	29-MAR-2006 18:39	S2891
L4	c2918007	56127810007	CS4	29-MAR-2006 18:44	S2892
L5	c2918008	56127810008	CS5	29-MAR-2006 18:50	S2886
L6	c2918009	56127810009	CS6	29-MAR-2006 18:56	S2887

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		1.1007	0.6353	0.3569	0.3229	0.3099	BLNK	-0.8732	3.21666		0.5451	1.000	0.995	
Antimony	0.4004	0.3397	0.3079	0.2871	0.2912	0.2911	BLNK	-0.1642	3.43871		0.3196	1.000	0.995	
Arsenic		0.9364	0.8211	0.5532	0.5424	0.5276	BLNK	-0.2535	1.88748		0.6761	1.000	0.995	
Barium	0.1527	0.1154	0.1180	0.0983	0.0998	0.1020	BLNK	-0.0955	9.85259		0.1144	1.000	0.995	
Beryllium	0.2982	0.2269	0.2150	0.1868	0.2010	0.1927	BLNK	-0.1967	5.15158		0.2201	1.000	0.995	
Cadmium	0.5976	0.6029	0.4976	0.4335	0.4125	0.3907	BLNK	-0.1025	2.53233		0.4891	0.999	0.995	
Calcium		0.0426	0.0282	0.0181	0.0169	0.0170	BLNK	-71.991	59.1990		0.0246	1.000	0.995	
Chromium		7.0536	4.3549	2.8649	2.6695	2.5474	BLNK	-0.7875	0.39064		3.8980	0.999	0.995	
Cobalt	3.6041	3.1396	3.1480	2.8886	2.7989	2.7057	BLNK	-0.0283	0.36708		3.0475	1.000	0.995	
Copper		0.9344	0.8890	0.7642	0.7342	0.6983	BLNK	-0.1406	1.41838		0.8040	0.999	0.995	
Iron		0.1655	0.1131	0.0746	0.0684	0.0658	BLNK	-73.294	15.1396		0.0975	1.000	0.995	
Lead	1.1788	1.0071	0.9529	0.8471	0.9516	0.9686	BLNK	-0.0887	1.03688		0.9843	1.000	0.995	
Magnesium		0.0406	0.0387	0.0377	0.0426	0.0416	BLNK	-1.3542	23.9076		0.0403	1.000	0.995	
Manganese	8.0466	5.7322	4.4428	3.4965	3.3635	3.3257	BLNK	-0.3396	0.30061		4.7346	1.000	0.995	
Molybdenum		0.9582	0.8235	0.7551	0.7830	0.7486	BLNK	-0.1084	1.32448		0.8137	0.999	0.995	
Nickel	1.0001	0.9063	0.6821	0.6316	0.6293	0.6095	BLNK	-0.1863	1.63180		0.7431	1.000	0.995	
Potassium		3.2307	1.8084	0.7394	0.5824	0.5535	BLNK	-239.79	1.81351		1.3829	1.000	0.995	
Selenium		0.2274	0.1257	0.0373	0.0282	0.0266	BLNK	-2.8481	37.7300		0.0891	0.999	0.995	
Silver	2.3326	2.0901	2.0646	1.9332	1.9483	1.8744	BLNK	-0.0409	0.52944		2.0405	1.000	0.995	
Sodium		0.4833	0.4036	0.4165	0.3944	0.3853	BLNK	-15.894	2.58521		0.4166	1.000	0.995	
Thallium		0.6611	0.6667	0.6223	0.6433	0.6578	BLNK	-0.0674	1.52779		0.6502	1.000	0.995	
Vanadium		4.7249	3.3950	3.1500	3.0798	2.9999	BLNK	-0.1436	0.33185		3.4699	1.000	0.995	
Zinc		1.1711	0.8186	0.5150	0.4530	0.4312	BLNK	-0.7800	2.30618		0.6778	0.999	0.995	

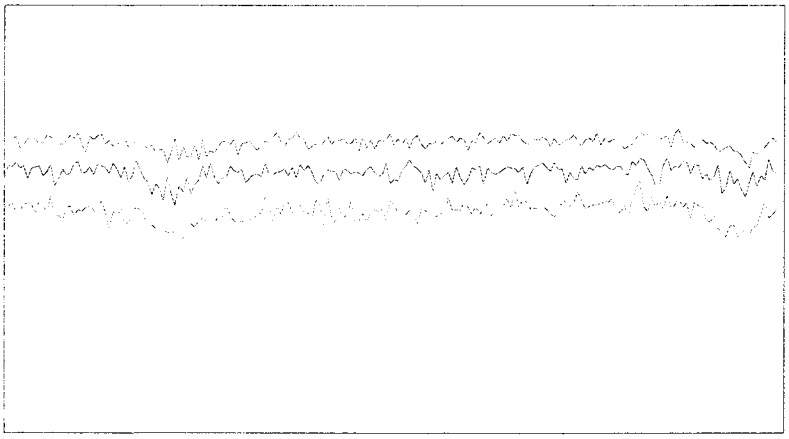
647

BLNK=Y=aX+[blank]

Instrument amount = a0 + response * a1 + response^2 * a2

Tune Report

Tune File : ATUNE.U



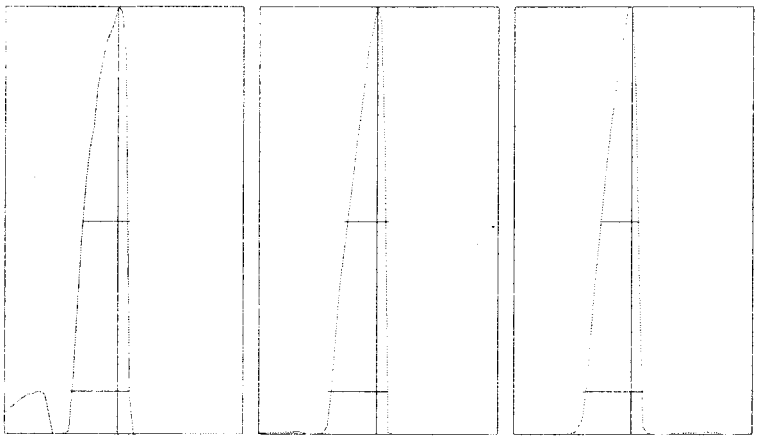
m/z:	7	89	205
Range:	50,000	50,000	20,000
Count:	30,151	33,915	10,419
Mean:	30213.8	33820.1	10292.1
RSD%:	3.30	2.21	4.54
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.39%
Doubly Charged:	70/140	2.35%

Background:

m/z:	7	89	205
Cps:	62.3	33.0	33.6



m/z:	7	89	205
Height:	31,303	33,682	10,664
Axis:	6.95	89.00	205.00
W-50%:	0.60	0.55	0.50
W-10%:	0.7500	0.7500	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1220 W	Extract 1:	-156.2 V	AMU Gain:	129
RF Matching:	1.62 V	Extract 2:	-66 V	AMU Offset:	126
Smpl Depth:	6.5 mm	Einzel 1,3:	-122 V	Axis Gain:	0.9998
Torch-H:	0 mm	Einzel 2:	-4 V	Axis Offset:	-0.13
Torch-V:	0.4 mm	Omega Bias:	-46 V	QP Bias:	1.5 V
Carrier Gas:	1.22 L/min	Omega (+):	5 V		
Makeup Gas:	0 L/min	Omega (-):	-3.7 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	5.2 V	Discriminator:	8.7 mV
PeriPump1:	0.1 rps	Plate Bias:	-12.5 V	Analog HV:	1750 V
PeriPump2:	--- rps			Pulse HV:	1220 V
S/C Temp:	2 degC				

Generated : Mar 29, 2006 10:03:20
Printed : Mar 29, 2006 10:03:27

P/A Factor Tuning Report

Acquired:Mar 29 2006 10:09 am

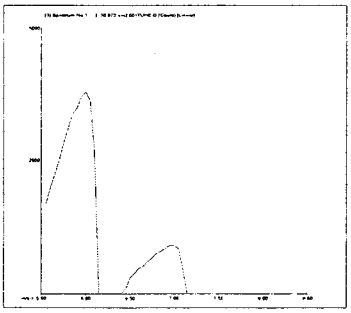
Mass[amu]	Element	P/A Factor
6	Li	0.075238
9	Be	0.081860
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.099467
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	Sensitivity too high
45	Sc	0.101043
51	V	0.104579
52	Cr	0.106196
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.108117
57	Fe	Sensitivity too high
59	Co	0.110220
60	Ni	Sensitivity too low
63	Cu	0.111260
65	Cu	0.108491
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.108896
95	Mo	Sensitivity too low
98	Mo	0.106349
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.113089
111	Cd	Sensitivity too low
114	Cd	0.110353
115	In	0.114073
118	(In)	0.117681
121	Sb	0.111223
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.116732
166	Er	Sensitivity too low

6020 QC Tune Report

Data File:	C:\ICPCHEM\1\DATA\06C2918a.B\001TUNE.D
Date Acquired:	Mar 29 2006 06:10 pm
Acq. Method:	TN6020.M
Operator:	
Sample Name:	TUN,S2898
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

Element	Actual	Required	Flag
7 Li	3.69	5.00	
59 Co	2.58	5.00	
115 In	1.65	5.00	
205 Tl	2.28	5.00	



7 Li

Mass Calib.

Actual: 6.95

Required: 6.90 - 7.10

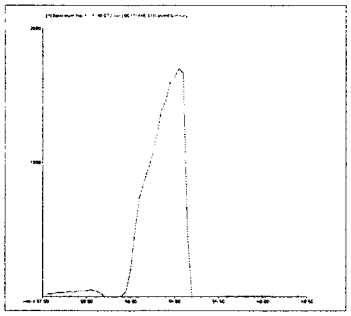
Flag:

Peak Width

Actual: 0.55

Required: 0.90

Flag:



59 Co

Mass Calib.

Actual: 59.05

Required: 58.90 - 59.10

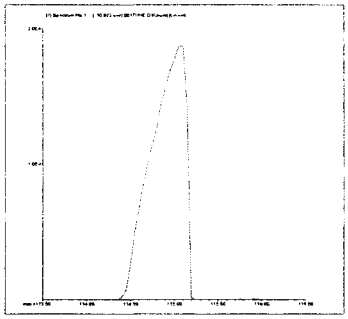
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



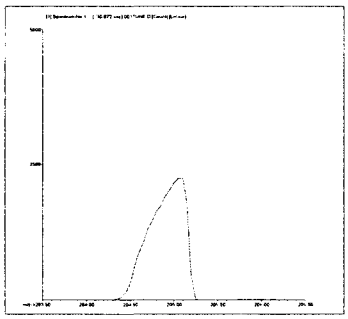
115 In

Mass Calib.

Actual:	115.05	
Required:	114.90 -	115.10
Flag:		

Peak Width

Actual:	0.60
Required:	0.90
Flag:	



205 Tl

Mass Calib.

Actual:	205.05	
Required:	204.90 -	205.10
Flag:		

Peak Width

Actual:	0.60
Required:	0.90
Flag:	

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06C2918a.B\002BLNK.D\002BLNK.D#
Date Acquired: Mar 29 2006 06:16 pm
Acq. Method: 60200111.M
Operator:
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update: Mar 29 2006 05:57 pm
Sample Type: 6-Blank
Dilution Factor: 1.00

QC Elements

Element	Corr. Conc.		RSD(%)	Raw Conc.	High Limit	Flag
9 Be	-0.02564	ppb	168.68	-0.02564	1.00	
23 Na	-5.635	ppb	5.83	-5.635	1.00	
26 Mg	-2.29	ppb	11.12	-2.29	1.00	
27 Al	-2.507	ppb	6.35	-2.507	1.00	
39 K	1.891	ppb	46.36	1.891	1.00	
44 Ca	-20.26	ppb	9.25	-20.26	1.00	
51 V	0.009686	ppb	272.66	0.009686	1.00	
52 Cr	-0.1041	ppb	8.36	-0.1041	1.00	
55 Mn	0.02581	ppb	143.24	0.02581	1.00	
57 Fe	-4.177	ppb	112.74	-4.177	1.00	
59 Co	-0.01038	ppb	53.11	-0.01038	1.00	
60 Ni	-0.01904	ppb	252.99	-0.01904	1.00	
65 Cu	0.01092	ppb	325.09	0.01092	1.00	
66 Zn	0.05331	ppb	151.34	0.05331	1.00	
75 As	-0.2254	ppb	90.20	-0.2254	1.00	
82 Se	-1.038	ppb	131.31	-1.038	1.00	
95 Mo	-0.0644	ppb	16.51	-0.0644	1.00	
109 Ag	-0.02019	ppb	29.58	-0.02019	1.00	
111 Cd	-0.1385	ppb	24.12	-0.1385	1.00	
121 Sb	-0.002685	ppb	284.88	-0.002685	1.00	
137 Ba	-0.02338	ppb	141.62	-0.02338	1.00	
205 Tl	0.1105	ppb	31.38	0.1105	1.00	
208 Pb	-0.004104	ppb	116.28	-0.004104	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	40280.00	4.94	---	#VALUE!	80 - 120	
45 Sc	90307.77	0.92	---	#VALUE!	80 - 120	
72 Ge	22111.11	1.17	---	#VALUE!	80 - 120	
115 In	152232.31	1.29	---	#VALUE!	80 - 120	
209 Bi	134505.55	2.04	---	#VALUE!	80 - 120	

ISTD Ref File : ---

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Fail
ISTD: Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2918a.B\003CAL
Date Acquired:	Mar 29 2006 06:22 pm
Operator:	
Sample Name:	std-blk
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 29 2006 05:57 pm
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	41946.66	P	1382.00	3.29
9	Be	32.22	P	13.47	41.80
23	Na	11594.44	P	464.50	4.01
26	Mg	106.67	P	13.33	12.50
27	Al	511.11	P	16.44	3.22
39	K	249401.09	P	10440.00	4.19
44	Ca	2289.28	P	103.60	4.53
45	Sc	94312.22	P	3980.00	4.22
51	V	189.86	P	286.10	150.69
52	Cr	900.00	P	17.64	1.96
55	Mn	504.44	P	25.24	5.00
57	Fe	2162.22	P	65.01	3.01
59	Co	34.44	P	8.39	24.36
60	Ni	51.11	P	13.47	26.35
65	Cu	44.44	P	15.75	35.44
66	Zn	151.11	P	6.94	4.59
72	Ge	22331.55	P	413.40	1.85
75	As	60.32	P	28.68	47.55
82	Se	33.56	P	12.39	36.92
95	Mo	36.67	P	12.02	32.78
109	Ag	34.44	P	6.94	20.15
111	Cd	18.05	P	3.46	19.15
115	In	148992.20	P	634.30	0.43
121	Sb	142.22	P	21.43	15.07
137	Ba	28.89	P	11.71	40.54
205	Tl	114.44	P	20.37	17.80
208	Pb	221.11	P	46.83	21.18
209	Bi	129427.80	P	4465.00	3.45

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2918a.B\004CALI.D\004CALI.D#
Date Acquired: Mar 29 2006 06:27 pm
Operator:
Sample Name: CS1,S2889
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 29 2006 06:24 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	41625.55	P	2041.00	4.90
9 Be	62.22	P	10.72	17.23
23 Na	27081.11	P	895.70	3.31
26 Mg	1778.89	P	146.90	8.26
27 Al	1072.22	P	32.89	3.07
39 K	268910.00	P	2631.00	0.98
44 Ca	2971.30	P	58.30	1.96
45 Sc	91182.22	P	1853.00	2.03
51 V	654.65	P	68.74	10.50
52 Cr	1143.33	P	46.67	4.08
55 Mn	892.22	P	108.70	12.18
57 Fe	2832.22	P	176.40	6.23
59 Co	400.00	P	3.33	0.83
60 Ni	111.11	P	27.76	24.98
65 Cu	133.33	P	29.06	21.80
66 Zn	232.21	P	24.11	10.38
72 Ge	22200.00	P	268.50	1.21
75 As	108.19	P	40.41	37.35
82 Se	27.78	P	7.90	28.43
95 Mo	135.56	P	12.62	9.31
109 Ag	258.89	P	55.01	21.25
111 Cd	66.29	P	13.46	20.30
115 In	152738.91	P	2720.00	1.78
121 Sb	305.56	P	42.47	13.90
137 Ba	116.67	P	26.03	22.31
205 Tl	513.33	P	35.12	6.84
208 Pb	801.11	P	18.36	2.29
209 Bi	135931.09	P	3478.00	2.56

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	41625.56	4.90	41946.66	99.2	80 - 120	

45	Sc	91182.22	2.03	94312.22	96.7	80 - 120
72	Ge	22200.00	1.21	22331.56	99.4	80 - 120
115	In	152738.86	1.78	148992.23	102.5	80 - 120
209	Bi	135931.09	2.56	129427.77	105.0	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2918a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2918a.B\005CALI.D\005CALI.D#
Date Acquired: Mar 29 2006 06:33 pm
Operator:
Sample Name: CS2,S2890
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 29 2006 06:29 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	47574.44	P	2901.00	6.10
9	Be	107.78	P	5.09	4.72
23	Na	47336.66	P	1357.00	2.87
26	Mg	3983.33	P	135.70	3.41
27	Al	1078.89	P	29.12	2.70
39	K	316660.00	P	5169.00	1.63
44	Ca	4181.13	P	186.00	4.45
45	Sc	98074.44	P	3793.00	3.87
51	V	1084.27	P	20.10	1.85
52	Cr	1618.89	P	34.69	2.14
55	Mn	1315.56	P	39.06	2.97
57	Fe	3797.78	P	158.30	4.17
59	Co	720.00	P	58.40	8.11
60	Ni	207.78	P	25.02	12.04
65	Cu	214.43	P	45.99	21.45
66	Zn	268.87	P	17.10	6.36
72	Ge	22950.22	P	276.20	1.20
75	As	215.34	P	66.24	30.76
82	Se	52.22	P	4.02	7.69
95	Mo	220.00	P	37.86	17.21
109	Ag	480.00	P	60.28	12.56
111	Cd	138.55	P	30.89	22.30
115	In	150894.09	P	1941.00	1.29
121	Sb	512.22	P	40.32	7.87
137	Ba	174.44	P	35.33	20.25
205	Tl	881.11	P	88.59	10.05
208	Pb	1345.56	P	23.65	1.76
209	Bi	133672.20	P	4514.00	3.38

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	47574.44	6.10	41946.66	113.4	80 - 120	

45	Sc	98074.45	3.87	94312.22	104.0	80 - 120
72	Ge	22950.22	1.20	22331.56	102.8	80 - 120
115	In	150894.09	1.29	148992.23	101.3	80 - 120
209	Bi	133672.22	3.38	129427.77	103.3	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2918a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2918a.B\006CALI.D\006CALI.D#
Date Acquired: Mar 29 2006 06:39 pm
Operator:
Sample Name: CS3,S2891
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 29 2006 06:35 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	42888.89	P	176.30	0.41
9 Be	184.44	P	30.79	16.69
23 Na	76541.11	P	1322.00	1.73
26 Mg	7338.89	P	317.40	4.32
27 Al	1204.44	P	71.67	5.95
39 K	342996.69	P	1313.00	0.38
44 Ca	5348.10	P	65.38	1.22
45 Sc	94841.11	P	1332.00	1.40
51 V	1543.13	P	75.11	4.87
52 Cr	1980.00	P	8.82	0.45
55 Mn	2020.00	P	52.07	2.58
57 Fe	5141.11	P	177.20	3.45
59 Co	1431.11	P	55.21	3.86
60 Ni	310.00	P	20.00	6.45
65 Cu	404.41	P	42.21	10.44
66 Zn	372.19	P	32.72	8.79
72 Ge	22734.00	P	199.00	0.88
75 As	373.29	P	46.96	12.58
82 Se	57.11	P	7.70	13.48
95 Mo	374.44	P	42.21	11.27
109 Ag	938.89	P	115.90	12.34
111 Cd	226.09	P	26.26	11.62
115 In	159122.30	P	877.00	0.55
121 Sb	980.00	P	14.53	1.48
137 Ba	375.56	P	8.39	2.23
205 Tl	1920.00	P	10.00	0.52
208 Pb	2744.44	P	25.46	0.93
209 Bi	144035.59	P	2886.00	2.00

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	42888.89	0.41	41946.66	102.2	80 - 120	

45	Sc	94841.11	1.40	94312.22	100.6	80 - 120
72	Ge	22734.00	0.88	22331.56	101.8	80 - 120
115	In	159122.27	0.55	148992.23	106.8	80 - 120
209	Bi	144035.55	2.00	129427.77	111.3	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2918a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**

ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2918a.B\007CALI.D\007CALI.D#
Date Acquired: Mar 29 2006 06:44 pm
Operator:
Sample Name: CS4,S2892
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 29 2006 06:40 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	49162.22	P	2322.00	4.72
9 Be	1833.33	P	15.28	0.83
23 Na	834240.69	A	28610.00	3.43
26 Mg	75625.55	P	1323.00	1.75
27 Al	7152.22	P	130.70	1.83
39 K	1481252.00	A	20680.00	1.40
44 Ca	36206.36	P	609.00	1.68
45 Sc	100208.90	P	2054.00	2.05
51 V	14806.55	P	296.50	2.00
52 Cr	13468.89	P	535.00	3.97
55 Mn	16435.55	P	69.47	0.42
57 Fe	35075.56	P	423.40	1.21
59 Co	13577.78	P	87.71	0.65
60 Ni	2967.78	P	148.80	5.01
65 Cu	3593.02	P	208.50	5.80
66 Zn	2420.73	P	60.13	2.48
72 Ge	23504.00	P	277.10	1.18
75 As	2600.42	P	70.05	2.69
82 Se	175.33	P	15.76	8.99
95 Mo	3550.00	P	78.60	2.21
109 Ag	9085.55	P	215.70	2.37
111 Cd	2038.25	P	84.90	4.17
115 In	156536.41	P	2172.00	1.39
121 Sb	8986.67	P	265.10	2.95
137 Ba	3077.78	P	130.60	4.24
205 Tl	17132.22	P	493.40	2.88
208 Pb	23327.78	P	184.70	0.79
209 Bi	137714.41	P	1947.00	1.41

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	49162.22	4.72	41946.66	117.2	80 - 120	

45	Sc	100208.88	2.05	94312.22	106.3	80 - 120
72	Ge	23504.00	1.18	22331.56	105.3	80 - 120
115	In	156536.44	1.39	148992.23	105.1	80 - 120
209	Bi	137714.44	1.41	129427.77	106.4	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2918a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2918a.B\008CALI.D\008CALI.D#
Date Acquired: Mar 29 2006 06:50 pm
Operator:
Sample Name: CS5,S2886
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 29 2006 06:46 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	42821.11	P	1801.00	4.21
9	Be	17178.89	P	571.60	3.33
23	Na	7450769.00	A	159300.00	2.14
26	Mg	805292.63	A	25870.00	3.21
27	Al	61005.55	P	1778.00	2.91
39	K	10998990.00	A	80800.00	0.73
44	Ca	319892.69	P	3826.00	1.20
45	Sc	94466.66	P	2503.00	2.65
51	V	140692.50	P	3683.00	2.62
52	Cr	121940.00	P	675.30	0.55
55	Mn	153646.70	P	2106.00	1.37
57	Fe	312391.09	P	7106.00	2.27
59	Co	127856.70	P	826.20	0.65
60	Ni	28743.33	P	200.40	0.70
65	Cu	33540.36	P	355.90	1.06
66	Zn	20695.97	P	599.00	2.89
72	Ge	22841.11	P	260.40	1.14
75	As	24776.22	P	191.10	0.77
82	Se	1288.00	P	36.88	2.86
95	Mo	35777.78	P	1377.00	3.85
109	Ag	88996.66	P	283.60	0.32
111	Cd	18841.50	P	252.60	1.34
115	In	151812.30	P	2275.00	1.50
121	Sb	88403.33	P	792.20	0.90
137	Ba	30294.44	P	776.60	2.56
205	Tl	176354.41	P	3350.00	1.90
208	Pb	260801.09	P	5094.00	1.95
209	Bi	137163.30	P	5870.00	4.28

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	42821.11	4.21	41946.66	102.1	80 - 120	

45	Sc	94466.66	2.65	94312.22	100.2	80 - 120
72	Ge	22841.11	1.14	22331.56	102.3	80 - 120
115	In	151812.27	1.50	148992.23	101.9	80 - 120
209	Bi	137163.33	4.28	129427.77	106.0	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2918a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06C2918a.B\009CALI.D\009CALI.D#
Date Acquired:	Mar 29 2006 06:56 pm
Operator:	
Sample Name:	CS6,S2887
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 29 2006 06:52 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	46836.66	P	3246.00	6.93
9 Be	35986.67	P	1322.00	3.67
23 Na	15099130.00	A	762300.00	5.05
26 Mg	1630755.00	A	28490.00	1.75
27 Al	121318.90	P	1274.00	1.05
39 K	21666460.00	A	66800.00	0.31
44 Ca	664719.88	P	15260.00	2.30
45 Sc	97923.33	P	2846.00	2.91
51 V	283400.91	P	5607.00	1.98
52 Cr	240640.00	P	1300.00	0.54
55 Mn	314168.91	P	3871.00	1.23
57 Fe	621797.69	P	10160.00	1.63
59 Co	255611.09	P	5376.00	2.10
60 Ni	57587.78	P	1882.00	3.27
65 Cu	65966.27	P	416.00	0.63
66 Zn	40731.84	P	278.60	0.68
72 Ge	23616.45	P	165.00	0.70
75 As	49843.78	P	456.10	0.92
82 Se	2516.44	P	45.66	1.81
95 Mo	70714.44	P	1099.00	1.55
109 Ag	177073.30	P	3020.00	1.71
111 Cd	36904.92	P	864.60	2.34
115 In	148154.50	P	4262.00	2.88
121 Sb	172393.30	P	1147.00	0.67
137 Ba	60451.11	P	1654.00	2.74
205 Tl	347016.69	P	15950.00	4.60
208 Pb	510967.69	P	14490.00	2.84
209 Bi	131904.41	P	3863.00	2.93

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	46836.66	6.93	41946.66	111.7	80 - 120	

45	Sc	97923.33	2.91	94312.22	103.8	80 - 120
72	Ge	23616.45	0.70	22331.56	105.8	80 - 120
115	In	148154.50	2.88	148992.23	99.4	80 - 120
209	Bi	131904.44	2.93	129427.77	101.9	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2918a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Summary

Calibration : C:\ICPCHEM\1\CALIB\60200111.C
Last Calib: Mar 29, 2006 18:57
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\06c2918a.b\003calb.d\	003calb.d#	Mar 29 2006 06:22 pm
2	...hem\1\data\06c2918a.b\004cali.d\	004cali.d#	Mar 29 2006 06:27 pm
3	...hem\1\data\06c2918a.b\005cali.d\	005cali.d#	Mar 29 2006 06:33 pm
4	...hem\1\data\06c2918a.b\006cali.d\	006cali.d#	Mar 29 2006 06:39 pm
5	...hem\1\data\06c2918a.b\007cali.d\	007cali.d#	Mar 29 2006 06:44 pm
6	...hem\1\data\06c2918a.b\008cali.d\	008cali.d#	Mar 29 2006 06:50 pm
7	...hem\1\data\06c2918a.b\009cali.d\	009cali.d#	Mar 29 2006 06:56 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	Excluded	---	ppb
Be	9	6	Y = 1.941E-1*X +3.818E-2(blank)	---	ppb
Na	23	45	Y = 3.868E-1*X +6.148E+0(blank)	---	ppb
Mg	25	45	Excluded	---	ppb
Mg	26	45	Y = 4.183E-2*X +5.664E-2(blank)	---	ppb
Al	27	45	Y = 3.109E-1*X +2.714E-1(blank)	---	ppb
K	39	45	Y = 5.514E-1*X +1.322E+2(blank)	---	ppb
Ca	43	45	Excluded	---	ppb
Ca	44	45	Y = 1.689E-2*X +1.216E+0(blank)	---	ppb
Sc	45	---	Excluded	---	ppb
V	51	72	Y = 3.013E+0*X +4.329E-1(blank)	---	ppb
Cr	52	72	Y = 2.560E+0*X +2.016E+0(blank)	---	ppb
Cr	53	72	Excluded	---	ppb
Fe	54	72	Excluded	---	ppb
Mn	55	72	Y = 3.327E+0*X +1.130E+0(blank)	---	ppb
Fe	57	72	Y = 6.605E-2*X +4.841E+0(blank)	---	ppb
Co	59	72	Y = 2.724E+0*X +7.721E-2(blank)	---	ppb
Ni	60	72	Y = 6.128E-1*X +1.142E-1(blank)	---	ppb
Cu	63	72	Excluded	---	ppb
Cu	65	72	Y = 7.050E-1*X +9.911E-2(blank)	---	ppb
Zn	66	72	Y = 4.336E-1*X +3.382E-1(blank)	---	ppb
Ge	72	---	Excluded	---	ppb
As	75	72	Y = 5.298E-1*X +1.343E-1(blank)	---	ppb
(As)	77	72	Excluded	---	ppb
Se	82	72	Y = 2.650E-2*X +7.549E-2(blank)	---	ppb
(As)	83	72	Excluded	---	ppb
(Ca)	88	72	Excluded	---	ppb
Y	89	72	Excluded	---	ppb
Mo	95	72	Y = 7.550E-1*X +8.186E-2(blank)	---	ppb
Mo	98	72	Excluded	---	ppb
(Mo)	99	72	Excluded	---	ppb
(Cd)	106	72	Excluded	---	ppb
(Cd)	108	72	Excluded	---	ppb
Ag	109	72	Y = 1.889E+0*X +7.732E-2(blank)	---	ppb
Cd	111	72	Y = 3.949E-1*X +4.047E-2(blank)	---	ppb
Cd	114	72	Excluded	---	ppb
In	115	---	Excluded	---	ppb
(In)	118	---	Excluded	---	ppb
Sb	121	115	Y = 2.908E-1*X +4.774E-2(blank)	---	ppb
Ba	135	115	Excluded	---	ppb
Ba	137	115	Y = 1.015E-1*X +9.691E-3(blank)	---	ppb
Tb	159	---	Excluded	---	ppb
Er	166	115	Excluded	---	ppb
Tl	205	209	Y = 6.545E-1*X +4.414E-2(blank)	---	ppb
(Pb)	206	209	Excluded	---	ppb
(Pb)	207	209	Excluded	---	ppb
Pb	208	209	Y = 9.644E-1*X +8.554E-2(blank)	---	ppb
Bi	209	---	Excluded	---	ppb
Th	232	209	--------	---	ppb
U	238	209	--------	---	ppb

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56127810010 File : c2918010 Time : 29-MAR-2006 19:01
Cal : 56127810001 Caldate: 29-MAR-2006
Standards: S2895, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	0.5451	0.3210	100.0	102.4	ug/L	2	10	
Antimony	0.3196	0.2884	100.0	99.02	ug/L	-1	10	
Arsenic	0.6761	0.5285	100.0	99.50	ug/L	-1	10	
Barium	0.1144	0.0999	100.0	98.35	ug/L	-2	10	
Beryllium	0.2201	0.1898	100.0	97.59	ug/L	-2	10	
Cadmium	0.4891	0.4038	100.0	102.2	ug/L	2	10	
Calcium	0.0246	0.0171	10000	10020	ug/L	0	10	
Chromium	3.8980	2.5575	100.0	99.12	ug/L	-1	10	
Cobalt	3.0475	2.7128	100.0	99.55	ug/L	0	10	
Copper	0.8040	0.7180	100.0	101.7	ug/L	2	10	
Iron	0.0975	0.0657	10000	9868	ug/L	-1	10	
Lead	0.9843	0.9310	100.0	96.45	ug/L	-4	10	
Magnesium	0.0403	0.0426	10000	10190	ug/L	2	10	
Manganese	4.7346	3.3562	100.0	100.5	ug/L	1	10	
Molybdenum	0.8137	0.7510	100.0	99.36	ug/L	-1	10	
Nickel	0.7431	0.6070	100.0	98.86	ug/L	-1	10	
Potassium	1.3829	0.5755	10000	10200	ug/L	2	10	
Selenium	0.0891	0.0278	100.0	102.2	ug/L	2	10	
Silver	2.0405	1.8862	100.0	99.82	ug/L	0	10	
Sodium	0.4166	0.3881	10000	10020	ug/L	0	10	
Thallium	0.6502	0.6181	100.0	94.37	ug/L	-6	10	
Vanadium	3.4699	2.9392	100.0	97.39	ug/L	-3	10	
Zinc	0.6778	0.4289	100.0	98.14	ug/L	-2	10	

ISTD (ICALBLK c2918003)	ICALBLK Abund	Abund	%Drift
Lithium	41947	46180	10.09
Scandium	94312	96420	2.23
Germanium	22332	23588	5.63
Indium	148992	152335	2.24
Bismuth	129428	138881	7.30

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56127810024 File : c2918024 Time : 29-MAR-2006 20:19
Cal : 56127810001 Caldate: 29-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.5451	0.3339	150.0	160.2	ug/L	7	10	
Antimony	0.3196	0.2793	150.0	143.9	ug/L	-4	10	
Arsenic	0.6761	0.5271	150.0	149.0	ug/L	-1	10	
Barium	0.1144	0.0966	150.0	142.6	ug/L	-5	10	
Beryllium	0.2201	0.1840	150.0	142.0	ug/L	-5	10	i+
Cadmium	0.4891	0.3817	150.0	144.9	ug/L	-3	10	
Calcium	0.0246	0.0168	15000	14800	ug/L	-1	10	
Chromium	3.8980	2.6189	150.0	152.7	ug/L	2	10	
Cobalt	3.0475	2.7564	150.0	151.7	ug/L	1	10	
Copper	0.8040	0.7098	150.0	150.9	ug/L	1	10	
Iron	0.0975	0.0666	15000	15040	ug/L	0	10	
Lead	0.9843	0.9127	150.0	141.9	ug/L	-5	10	
Magnesium	0.0403	0.0445	15000	15960	ug/L	6	10	
Manganese	4.7346	3.3531	150.0	150.9	ug/L	1	10	
Molybdenum	0.8137	0.7528	150.0	149.5	ug/L	0	10	
Nickel	0.7431	0.6186	150.0	151.2	ug/L	1	10	
Potassium	1.3829	0.5707	15000	15280	ug/L	2	10	
Selenium	0.0891	0.0268	150.0	148.8	ug/L	-1	10	
Silver	2.0405	1.8247	150.0	144.9	ug/L	-3	10	
Sodium	0.4166	0.4052	15000	15700	ug/L	5	10	
Thallium	0.6502	0.6208	150.0	142.2	ug/L	-5	10	
Vanadium	3.4699	3.0358	150.0	151.0	ug/L	1	10	
Zinc	0.6778	0.4359	150.0	150.0	ug/L	0	10	

ISTD (ICALBLK c2918003)	ICALBLK Abund	Abund	%Drift
Lithium	41947	53592	**27.76 ***
Scandium	94312	102481	8.66
Germanium	22332	24204	8.38
Indium	148992	155539	4.39
Bismuth	129428	139368	7.68

+=high bias i=ISTD failure

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56127810012 File : c2918012 Time : 29-MAR-2006 19:12
Cal : 56127810001 Caldate: 29-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.01894]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.06967]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2918003)	ICALBLK Abund	Abund	%Drift
Lithium	41947	45580	8.66
Scandium	94312	97062	2.92
Germanium	22332	22977	2.89
Indium	148992	156905	5.31
Bismuth	129428	140331	8.42

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56127810026 File : c2918026 Time : 29-MAR-2006 20:31
Cal : 56127810001 Caldate: 29-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	[0.04958]	0.2500	0.04566	ug/L	!ib
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.01007]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.06123]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2918003)	ICALBLK Abund	Abund	%Drift
Lithium	41947	50127	19.50
Scandium	94312	99464	5.46
Germanium	22332	23352	4.57
Indium	148992	162415	9.01
Bismuth	129428	153910	18.92

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56127810013 File : c2918013 Time : 29-MAR-2006 19:18
Cal : 56127810001 Caldate: 29-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.334	0.2500	ug/L	
Arsenic	0.5883	0.5000	ug/L	
Barium	1.132	0.2500	ug/L	
Beryllium	[0.01805]	0.2500	ug/L	
Cadmium	[0.1801]	0.2500	ug/L	
Chromium	1.649	0.5000	ug/L	
Cobalt	2.835	0.2500	ug/L	
Copper	1.815	0.5000	ug/L	
Lead	1.214	0.2500	ug/L	
Manganese	1.037	0.2500	ug/L	
Nickel	1.259	0.2500	ug/L	
Selenium	[0]	0.5000	ug/L	
Silver	[0.1523]	0.2500	ug/L	
Thallium	[0.1112]	0.5000	ug/L	
Vanadium	[0.3974]	1.000	ug/L	
Zinc	4.053	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	106400	ug/L	106
Calcium	300000	322400	ug/L	107
Iron	250000	268500	ug/L	107
Magnesium	100000	94700	ug/L	95
Molybdenum	2000	2105	ug/L	105
Potassium	100000	101500	ug/L	102
Sodium	250000	233600	ug/L	93

ISTD (ICALBLK c2918003)	ICALBLK Abund	Abund	%Drift
Lithium	41947	33367	-20.45
Scandium	94312	84656	-10.24
Germanium	22332	21020	-5.87
Indium	148992	129854	-12.85
Bismuth	129428	107641	-16.83

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56127810014 File : c2918014 Time : 29-MAR-2006 19:23
Cal : 56127810001 Caldate: 29-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	100800	ug/L	1		
Arsenic	100.0	108.3	ug/L	8	20	
Cadmium	100.0	94.48	ug/L	-6	20	
Calcium	300000	328100	ug/L	9		
Chromium	200.0	208.6	ug/L	4	20	
Cobalt	200.0	203.9	ug/L	2	20	
Copper	200.0	200.9	ug/L	0	20	
Iron	250000	267200	ug/L	7		
Magnesium	100000	88260	ug/L	-12		
Manganese	200.0	205.5	ug/L	3	20	
Molybdenum	2000	2021	ug/L	1		
Nickel	200.0	200.8	ug/L	0	20	
Potassium	100000	102300	ug/L	2		
Selenium	100.0	108.1	ug/L	8	20	
Silver	50.00	47.49	ug/L	-5	20	
Sodium	250000	217100	ug/L	-13		
Vanadium	200.0	208.3	ug/L	4	20	
Zinc	100.0	104.4	ug/L	4	20	

ISTD (ICALBLK c2918003)	ICALBLK Abund	Abund	%Drift
Scandium	94312	87244	-7.49
Germanium	22332	21590	-3.32

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56127810027 File : c2918027 Time : 29-MAR-2006 20:36
Cal : 56127810001 Caldate: 29-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.544	0.2500	ug/L	
Arsenic	1.222	0.5000	ug/L	
Barium	0.9591	0.2500	ug/L	
Beryllium	[0]	0.2500	ug/L	
Cadmium	0.3238	0.2500	ug/L	
Chromium	1.616	0.5000	ug/L	
Cobalt	2.879	0.2500	ug/L	
Copper	1.776	0.5000	ug/L	
Lead	1.173	0.2500	ug/L	
Manganese	1.054	0.2500	ug/L	
Nickel	1.451	0.2500	ug/L	
Selenium	1.142	0.5000	ug/L	
Silver	[0.1570]	0.2500	ug/L	
Thallium	[0.07554]	0.5000	ug/L	
Vanadium	[0.2994]	1.000	ug/L	
Zinc	3.682	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	109100	ug/L	109
Calcium	300000	328100	ug/L	109
Iron	250000	270400	ug/L	108
Magnesium	100000	96370	ug/L	96
Molybdenum	2000	2035	ug/L	102
Potassium	100000	103700	ug/L	104
Sodium	250000	248000	ug/L	99

ISTD (ICALBLK c2918003)	ICALBLK Abund	Abund	%Drift
Lithium	41947	38770	-7.57
Scandium	94312	89176	-5.45
Germanium	22332	21687	-2.89
Indium	148992	128505	-13.75
Bismuth	129428	114491	-11.54

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56127810028 File : c2918028 Time : 29-MAR-2006 20:42
Cal : 56127810001 Caldate: 29-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	102600	ug/L	3		
Arsenic	100.0	107.0	ug/L	7	20	
Cadmium	100.0	97.62	ug/L	-2	20	
Calcium	300000	321800	ug/L	7		
Chromium	200.0	203.4	ug/L	2	20	
Cobalt	200.0	202.5	ug/L	1	20	
Copper	200.0	194.9	ug/L	-3	20	
Iron	250000	264100	ug/L	6		
Magnesium	100000	91460	ug/L	-9		
Manganese	200.0	200.6	ug/L	0	20	
Molybdenum	2000	2030	ug/L	2		
Nickel	200.0	194.1	ug/L	-3	20	
Potassium	100000	99730	ug/L	0		
Selenium	100.0	101.7	ug/L	2	20	
Silver	50.00	47.60	ug/L	-5	20	
Sodium	250000	230600	ug/L	-8		
Vanadium	200.0	205.2	ug/L	3	20	
Zinc	100.0	101.6	ug/L	2	20	

ISTD (ICALBLK c2918003)	ICALBLK Abund	Abund	%Drift
Scandium	94312	90086	-4.48
Germanium	22332	22014	-1.42

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56127810 Instrument: MET05 Agilent ICP-MS Begun: 29-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	c2918001	TUN				29-MAR-2006 18:10	1.0	1.0			1	
003	c2918003	ICALBLK	std-blk			29-MAR-2006 18:22	1.0	1.0			2	
004	c2918004	ICAL	CS1			29-MAR-2006 18:27	1.0	1.0			3	
005	c2918005	ICAL	CS2			29-MAR-2006 18:33	1.0	1.0			4	
006	c2918006	ICAL	CS3			29-MAR-2006 18:39	1.0	1.0			5	
007	c2918007	ICAL	CS4			29-MAR-2006 18:44	1.0	1.0			6	
008	c2918008	ICAL	CS5			29-MAR-2006 18:50	1.0	1.0			7	
009	c2918009	ICAL	CS6			29-MAR-2006 18:56	1.0	1.0			8	
010	c2918010	ICV				29-MAR-2006 19:01	1.0	1.0		1	9 2	
012	c2918012	ICB				29-MAR-2006 19:12	1.0	1.0		1	2	
013	c2918013	ICSA				29-MAR-2006 19:18	1.0	1.0		1	10 2	7:CA=322400
014	c2918014	ICSAB				29-MAR-2006 19:23	1.0	1.0		1	11 2	13:CA=328100
016	c2918016	SAMPLE	185586-023	111436	Filtra	29-MAR-2006 19:35	1.0	1.0		1	2	
017	c2918017	SAMPLE	185586-024	111436	Filtra	29-MAR-2006 19:40	1.0	1.0	3	1	2	3:MG=53710.0
018	c2918018	SAMPLE	185586-025	111436	Filtra	29-MAR-2006 19:46	1.0	1.0	2	1	2	2:MG=49390.0
019	c2918019	SAMPLE	185586-026	111436	Filtra	29-MAR-2006 19:51	1.0	1.0	3	1	2	3:NA=53800.0
020	c2918020	SAMPLE	185586-001	111436	Filtra	29-MAR-2006 19:57	20.0	1.0	1	1	2	
021	c2918021	SAMPLE	185586-002	111436	Filtra	29-MAR-2006 20:03	20.0	1.0	1	1	2	1:MN=205.050
022	c2918022	SAMPLE	185586-003	111436	Filtra	29-MAR-2006 20:08	20.0	1.0		1	2	
023	c2918023	SAMPLE	185586-018	111436	Filtra	29-MAR-2006 20:14	20.0	1.0		1	2	
024	c2918024	CCV				29-MAR-2006 20:19	1.0	1.0		1	12 2	
026	c2918026	CCB				29-MAR-2006 20:31	1.0	1.0		1	2	
027	c2918027	ICSA				29-MAR-2006 20:36	1.0	1.0		1	10 2	7:CA=328100
028	c2918028	ICSAB				29-MAR-2006 20:42	1.0	1.0		1	11 2	11:CA=321800

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897

Analyst: K Carlyon Date: 3/29/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56128053001
Units : ug/L

Date : 29-MAR-2006 22:25
X Axis : R

Reviewer: ---
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	c2922004	56128053004	CS1	29-MAR-2006 22:30	S2889
L2	c2922005	56128053005	CS2	29-MAR-2006 22:36	S2890
L3	c2922006	56128053006	CS3	29-MAR-2006 22:42	S2891
L4	c2922007	56128053007	CS4	29-MAR-2006 22:47	S2892
L5	c2922008	56128053008	CS5	29-MAR-2006 22:53	S2886
L6	c2922009	56128053009	CS6	29-MAR-2006 22:59	S2887

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		0.9107	0.6025	0.3562	0.3402	0.3301	BLNK	-1.7876	3.04369		0.5079	1.000	0.995	
Antimony	0.3488	0.3428	0.2955	0.2661	0.2778	0.2726	BLNK	-0.1489	3.65755		0.3006	1.000	0.995	
Arsenic		0.7217	0.5739	0.4991	0.4957	0.4806	BLNK	-0.2133	2.07028		0.5542	1.000	0.995	
Barium	0.1256	0.1177	0.1088	0.0967	0.0995	0.0973	BLNK	-0.0690	10.2321		0.1076	1.000	0.995	
Beryllium	0.1925	0.1930	0.1749	0.1780	0.1742	0.1715	BLNK	-0.0958	5.81528		0.1807	1.000	0.995	
Cadmium	0.6733	0.4948	0.5120	0.4183	0.4194	0.3996	BLNK	-0.1402	2.48011		0.4862	0.999	0.995	
Calcium		0.0305	0.0235	0.0172	0.0168	0.0167	BLNK	-52.301	60.0769		0.0209	1.000	0.995	
Chromium		5.3336	4.0474	2.6127	2.4695	2.3973	BLNK	-0.6295	0.41618		3.3721	1.000	0.995	
Cobalt	3.5025	3.1292	3.0211	2.7684	2.7131	2.6490	BLNK	-0.0495	0.37577		2.9639	1.000	0.995	
Copper		0.8570	0.8046	0.7269	0.7131	0.6849	BLNK	-0.1110	1.44898		0.7573	1.000	0.995	
Iron		0.1484	0.1102	0.0702	0.0660	0.0640	BLNK	-70.731	15.6002		0.0917	1.000	0.995	
Lead	1.0735	0.9403	0.9004	0.8213	0.9342	0.9111	BLNK	-0.0579	1.09261		0.9301	1.000	0.995	
Magnesium		0.0415	0.0407	0.0398	0.0434	0.0419	BLNK	-2.1849	23.7097		0.0414	1.000	0.995	
Manganese	5.7693	4.4436	4.1142	3.3263	3.2583	3.1418	BLNK	-0.1973	0.31630		4.0089	1.000	0.995	
Molybdenum		0.7895	0.8413	0.7318	0.7670	0.7452	BLNK	-0.0832	1.33485		0.7750	1.000	0.995	
Nickel	0.9590	0.7966	0.6836	0.6375	0.6123	0.5877	BLNK	-0.1775	1.68900		0.7128	1.000	0.995	
Potassium		2.6064	1.5717	0.6611	0.5430	0.5139	BLNK	-210.63	1.94829		1.1792	0.999	0.995	
Selenium		0.1765	0.0897	0.0331	0.0277	0.0261	BLNK	-2.3288	38.4041		0.0706	0.999	0.995	
Silver	2.0395	2.0219	2.0083	1.9764	1.9506	1.8729	BLNK	-0.0406	0.52962		1.9783	1.000	0.995	
Sodium		0.5046	0.4367	0.4245	0.4016	0.3902	BLNK	-20.180	2.55093		0.4315	1.000	0.995	
Thallium		0.7350	0.6538	0.5814	0.6375	0.6169	BLNK	-0.1872	1.61230		0.6449	1.000	0.995	
Vanadium		3.8749	3.6169	2.8737	2.8642	2.8113	BLNK	-0.2536	0.35492		3.2082	1.000	0.995	
Zinc		1.1788	0.9038	0.4823	0.4285	0.4117	BLNK	-1.2800	2.42737		0.6810	1.000	0.995	

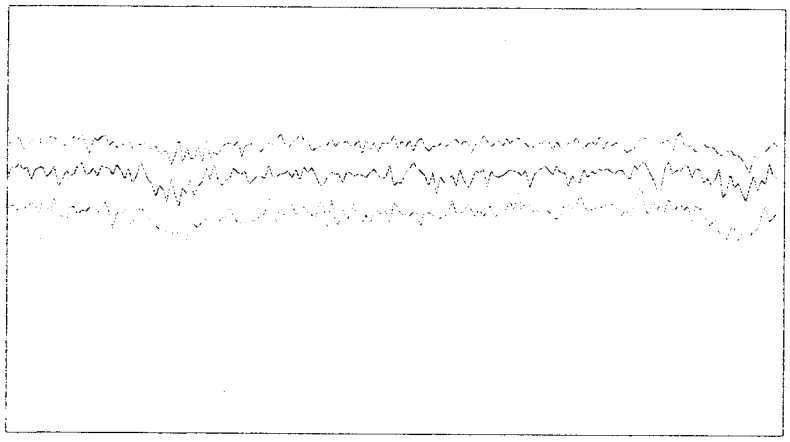
678

BLNK=Y=aX+[blank]

Instrument amount = a0 + response * a1 + response^2 * a2

Tune Report

Tune File : ATUNE.U



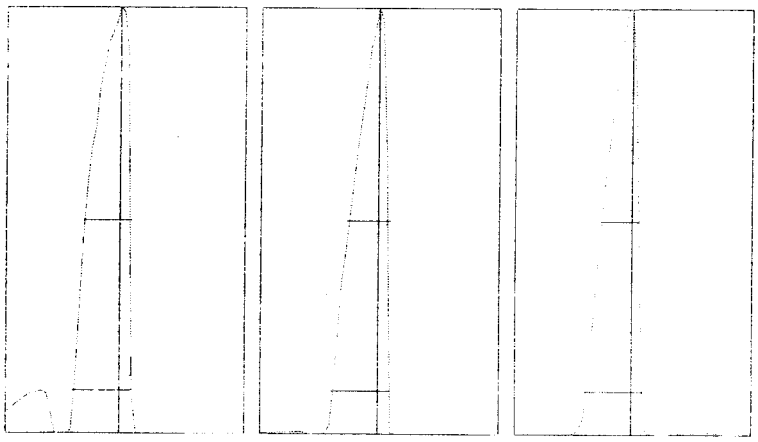
m/z:	7	89	205
Range:	50,000	50,000	20,000
Count:	30,151	33,915	10,419
Mean:	30213.8	33820.1	10292.1
RSD%:	3.30	2.21	4.54
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.39%
Doubly Charged:	70/140	2.35%

Background:

m/z:	7	89	205
Cps:	62.3	33.0	33.6



m/z:	7	89	205
Height:	31,303	33,682	10,664
Axis:	6.95	89.00	205.00
W-50%:	0.60	0.55	0.50
W-10%:	0.7500	0.7500	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1220 W	Extract 1:	-156.2 V	AMU Gain:	129
RF Matching:	1.62 V	Extract 2:	-66 V	AMU Offset:	126
Smpl Depth:	6.5 mm	Einzel 1,3:	-122 V	Axis Gain:	0.9998
Torch-H:	0 mm	Einzel 2:	-4 V	Axis Offset:	-0.13
Torch-V:	0.4 mm	Omega Bias:	-46 V	QP Bias:	1.5 V
Carrier Gas:	1.22 L/min	Omega (+):	5 V		
Makeup Gas:	0 L/min	Omega (-):	-3.7 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	5.2 V	Discriminator:	8.7 mV
PeriPump1:	0.1 rps	Plate Bias:	-12.5 V	Analog HV:	1750 V
PeriPump2:	--- rps			Pulse HV:	1220 V
S/C Temp:	2 degC				

Generated : Mar 29, 2006 10:03:20
Printed : Mar 29, 2006 10:03:27

P/A Factor Tuning Report

Acquired:Mar 29 2006 10:09 am

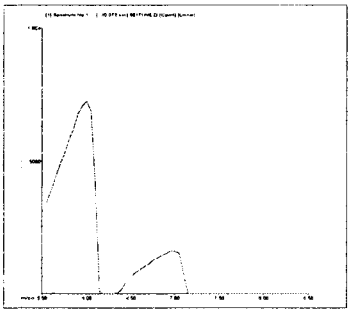
Mass[amu]	Element	P/A Factor
6	Li	0.075238
9	Be	0.081860
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.099467
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	Sensitivity too high
45	Sc	0.101043
51	V	0.104579
52	Cr	0.106196
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.108117
57	Fe	Sensitivity too high
59	Co	0.110220
60	Ni	Sensitivity too low
63	Cu	0.111260
65	Cu	0.108491
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.108896
95	Mo	Sensitivity too low
98	Mo	0.106349
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.113089
111	Cd	Sensitivity too low
114	Cd	0.110353
115	In	0.114073
118	(In)	0.117681
121	Sb	0.111223
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.116732
166	Er	Sensitivity too low

6020 QC Tune Report

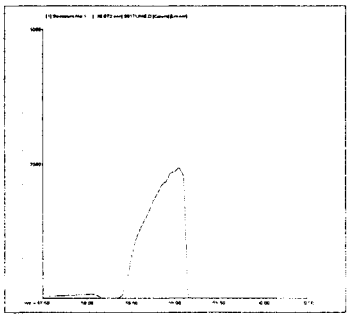
Data File: C:\ICPCHEM\1\DATA\06C2922a.B\001TUNE.D
Date Acquired: Mar 29 2006 10:13 pm
Acq. Method: TN6020.M
Operator:
Sample Name: TUN,S2898
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

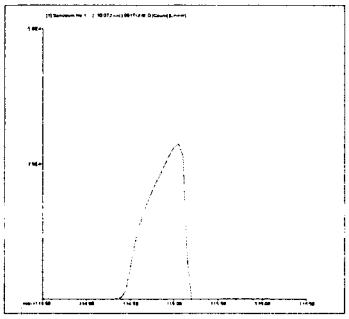
Element	Actual	Required	Flag
7 Li	2.97	5.00	
59 Co	3.41	5.00	
115 In	1.53	5.00	
205 Tl	2.58	5.00	



7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.55
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.55
Required: 0.90
Flag:



115 In

Mass Calib.

Actual: 115.05

Required: 114.90 - 115.10

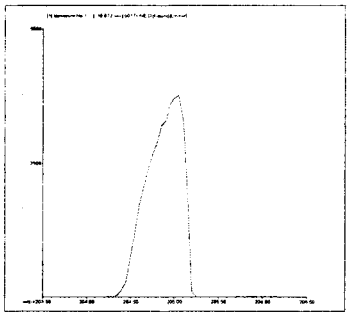
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



205 Tl

Mass Calib.

Actual: 205.05

Required: 204.90 - 205.10

Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06C2922a.B\002BLNK.D\002BLNK.D#
Date Acquired: Mar 29 2006 10:19 pm
Acq. Method: 60200111.M
Operator:
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update: Mar 29 2006 06:57 pm
Sample Type: 6-Blank
Dilution Factor: 1.00

QC Elements

Element	Corr. Conc.		RSD(%)	Raw Conc.	High Limit	Flag
9 Be	-0.1193	ppb	29.17	-0.1193	1.00	
23 Na	1.803	ppb	13.77	1.803	1.00	
26 Mg	0.1244	ppb	164.71	0.1244	1.00	
27 Al	0.05031	ppb	74.72	0.05031	1.00	
39 K	-44.12	ppb	4.22	-44.12	1.00	
44 Ca	-23.67	ppb	10.74	-23.67	1.00	
51 V	0.04016	ppb	263.70	0.04016	1.00	
52 Cr	-0.1756	ppb	39.86	-0.1756	1.00	
55 Mn	-0.1437	ppb	10.73	-0.1437	1.00	
57 Fe	-7.226	ppb	19.97	-7.226	1.00	
59 Co	0.02272	ppb	69.15	0.02272	1.00	
60 Ni	-0.02312	ppb	114.45	-0.02312	1.00	
65 Cu	-0.001496	ppb	1193.90	-0.001496	1.00	
66 Zn	0.175	ppb	38.81	0.175	1.00	
75 As	-0.09404	ppb	69.18	-0.09404	1.00	
82 Se	-1.037	ppb	99.13	-1.037	1.00	
95 Mo	-0.0046	ppb	445.87	-0.0046	1.00	
109 Ag	-0.001235	ppb	627.85	-0.001235	1.00	
111 Cd	0.03157	ppb	113.78	0.03157	1.00	
121 Sb	-0.04908	ppb	21.01	-0.04908	1.00	
137 Ba	-0.03401	ppb	44.96	-0.03401	1.00	
205 Tl	0.2443	ppb	7.27	0.2443	1.00	
208 Pb	-0.0322	ppb	8.16	-0.0322	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	66985.55	3.92	---	#VALUE!	80 - 120	
45 Sc	127535.55	0.44	---	#VALUE!	80 - 120	
72 Ge	31140.45	1.04	---	#VALUE!	80 - 120	
115 In	222532.08	1.01	---	#VALUE!	80 - 120	
209 Bi	208049.98	2.95	---	#VALUE!	80 - 120	

ISTD Ref File : ---

1	:Element Failures	0	:Max. Number of Failures Allowed
0	:ISTD Failures	0	:Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes:	Fail
ISTD:	Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06C2922a.B\003CAL
Date Acquired: Mar 29 2006 10:25 pm
Operator:
Sample Name: std-blk
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 29 2006 06:57 pm
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	67444.44	P	328.40	0.49
9	Be	22.22	P	9.62	43.30
23	Na	20141.11	P	2441.00	12.12
26	Mg	234.44	P	78.13	33.33
27	Al	1493.33	P	773.80	51.82
39	K	275345.50	P	2824.00	1.03
44	Ca	2216.84	P	146.50	6.61
45	Sc	127347.80	P	682.10	0.54
51	V	445.36	P	138.60	31.12
52	Cr	943.33	P	30.55	3.24
55	Mn	388.89	P	18.36	4.72
57	Fe	2827.78	P	81.81	2.89
59	Co	82.22	P	18.95	23.05
60	Ni	65.56	P	8.39	12.80
65	Cu	47.78	P	3.85	8.06
66	Zn	328.89	P	20.09	6.11
72	Ge	31182.67	P	106.40	0.34
75	As	64.24	P	9.86	15.35
82	Se	37.78	P	17.76	47.01
95	Mo	38.89	P	1.93	4.95
109	Ag	47.78	P	10.72	22.44
111	Cd	35.24	P	7.67	21.76
115	In	222466.09	P	260.40	0.12
121	Sb	181.11	P	26.74	14.76
137	Ba	30.00	P	5.77	19.25
205	Tl	480.00	P	39.30	8.19
208	Pb	218.89	P	20.37	9.31
209	Bi	206688.91	P	544.70	0.26

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2922a.B\004CALI.D\004CALI.D#
Date Acquired: Mar 29 2006 10:30 pm
Operator:
Sample Name: CS1,S2889
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 29 2006 10:27 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	68215.55	P	1365.00	2.00
9 Be	65.56	P	18.95	28.91
23 Na	42220.00	P	785.60	1.86
26 Mg	2600.00	P	162.70	6.26
27 Al	1492.22	P	60.49	4.05
39 K	305376.69	P	2231.00	0.73
44 Ca	3016.78	P	87.28	2.89
45 Sc	128004.40	P	948.80	0.74
51 V	734.14	P	135.80	18.50
52 Cr	1363.33	P	105.80	7.76
55 Mn	902.22	P	57.38	6.36
57 Fe	3683.33	P	141.90	3.85
59 Co	547.78	P	6.94	1.27
60 Ni	150.00	P	3.33	2.22
65 Cu	177.77	P	36.72	20.66
66 Zn	382.21	P	37.47	9.80
72 Ge	31280.45	P	152.00	0.49
75 As	205.80	P	61.60	29.93
82 Se	57.11	P	14.55	25.48
95 Mo	142.22	P	36.72	25.82
109 Ag	318.89	P	26.94	8.45
111 Cd	105.32	P	21.65	20.56
115 In	222989.00	P	621.10	0.28
121 Sb	388.89	P	12.62	3.25
137 Ba	140.00	P	26.03	18.59
205 Tl	910.00	P	88.38	9.71
208 Pb	1097.78	P	53.99	4.92
209 Bi	204481.09	P	1877.00	0.92

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	68215.55	2.00	67444.45	101.1	80 - 120	

45	Sc	128004.44	0.74	127347.77	100.5	80 -	120
72	Ge	31280.45	0.49	31182.67	100.3	80 -	120
115	In	222988.97	0.28	222466.14	100.2	80 -	120
209	Bi	204481.09	0.92	206688.89	98.9	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2922a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2922a.B\005CALI.D\005CALI.D#
Date Acquired: Mar 29 2006 10:36 pm
Operator:
Sample Name: CS2,S2890
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 29 2006 10:32 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	68486.66	P	1472.00	2.15
9 Be	132.22	P	10.72	8.11
23 Na	64694.44	P	435.60	0.67
26 Mg	5317.78	P	60.03	1.13
27 Al	1167.78	P	65.52	5.61
39 K	334147.81	P	2517.00	0.75
44 Ca	3913.61	P	62.19	1.59
45 Sc	128201.10	P	711.30	0.55
51 V	1205.23	P	252.20	20.93
52 Cr	1658.89	P	76.33	4.60
55 Mn	1382.22	P	85.79	6.21
57 Fe	4615.56	P	31.51	0.68
59 Co	973.33	P	21.86	2.25
60 Ni	247.78	P	10.18	4.11
65 Cu	266.64	P	67.66	25.38
66 Zn	366.64	P	63.86	17.42
72 Ge	31104.45	P	57.49	0.18
75 As	224.56	P	56.31	25.08
82 Se	54.89	P	13.36	24.34
95 Mo	245.56	P	23.65	9.63
109 Ag	628.89	P	66.69	10.60
111 Cd	153.91	P	6.61	4.29
115 In	222753.80	P	1567.00	0.70
121 Sb	763.33	P	33.83	4.43
137 Ba	262.22	P	16.78	6.40
205 Tl	1482.22	P	96.74	6.53
208 Pb	1897.78	P	22.19	1.17
209 Bi	201852.20	P	4093.00	2.03

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	68486.66	2.15	67444.45	101.5	80 - 120	

45	Sc	128201.10	0.55	127347.77	100.7	80 -	120
72	Ge	31104.45	0.18	31182.67	99.7	80 -	120
115	In	222753.81	0.70	222466.14	100.1	80 -	120
209	Bi	201852.22	2.03	206688.89	97.7	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2922a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2922a.B\006CALI.D\006CALI.D#
Date Acquired: Mar 29 2006 10:42 pm
Operator:
Sample Name: CS3,S2891
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 29 2006 10:38 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	67083.33	P	1246.00	1.86
9 Be	234.44	P	16.78	7.16
23 Na	108983.30	P	1435.00	1.32
26 Mg	10160.00	P	213.90	2.11
27 Al	1503.33	P	72.19	4.80
39 K	392280.00	P	3164.00	0.81
44 Ca	5857.99	P	160.60	2.74
45 Sc	124794.40	P	1007.00	0.81
51 V	2187.31	P	258.10	11.80
52 Cr	2447.78	P	70.42	2.88
55 Mn	2487.78	P	121.50	4.88
57 Fe	6662.22	P	71.21	1.07
59 Co	1826.67	P	125.50	6.87
60 Ni	413.33	P	32.15	7.78
65 Cu	486.62	P	52.92	10.88
66 Zn	546.62	P	32.83	6.01
72 Ge	30236.89	P	103.00	0.34
75 As	347.07	P	45.45	13.10
82 Se	54.22	P	1.02	1.88
95 Mo	508.89	P	65.35	12.84
109 Ag	1214.44	P	13.47	1.11
111 Cd	309.53	P	45.76	14.78
115 In	216607.00	P	936.20	0.43
121 Sb	1280.00	P	42.56	3.33
137 Ba	471.11	P	36.72	7.79
205 Tl	2538.89	P	64.32	2.53
208 Pb	3496.67	P	58.12	1.66
209 Bi	194164.41	P	591.70	0.30

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	67083.33	1.86	67444.45	99.5	80 - 120	

45	Sc	124794.44	0.81	127347.77	98.0	80 -	120
72	Ge	30236.89	0.34	31182.67	97.0	80 -	120
115	In	216607.00	0.43	222466.14	97.4	80 -	120
209	Bi	194164.44	0.30	206688.89	93.9	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2922a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2922a.B\007CALI.D\007CALI.D#
Date Acquired: Mar 29 2006 10:47 pm
Operator:
Sample Name: CS4,S2892
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 29 2006 10:43 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	66460.00	P	1516.00	2.28
9 Be	2366.67	P	83.73	3.54
23 Na	1079561.00	A	14230.00	1.32
26 Mg	101228.90	P	123.00	0.12
27 Al	9057.78	P	90.21	1.00
39 K	1681102.00	A	18610.00	1.11
44 Ca	43627.14	P	451.00	1.03
45 Sc	127156.70	P	980.00	0.77
51 V	17976.16	P	145.30	0.81
52 Cr	16343.33	P	199.40	1.22
55 Mn	20807.78	P	193.90	0.93
57 Fe	43888.89	P	762.40	1.74
59 Co	17317.78	P	102.00	0.59
60 Ni	3987.78	P	91.91	2.30
65 Cu	4547.35	P	42.86	0.94
66 Zn	3017.27	P	83.36	2.76
72 Ge	31277.55	P	121.60	0.39
75 As	3122.06	P	31.00	0.99
82 Se	207.11	P	15.98	7.72
95 Mo	4577.78	P	88.59	1.94
109 Ag	12363.33	P	152.80	1.24
111 Cd	2616.69	P	62.29	2.38
115 In	222779.91	P	2218.00	1.00
121 Sb	11853.33	P	86.22	0.73
137 Ba	4306.67	P	35.28	0.82
205 Tl	24125.55	P	933.90	3.87
208 Pb	34085.56	P	485.10	1.42
209 Bi	207516.70	P	2040.00	0.98

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	66460.00	2.28	67444.45	98.5	80 - 120	

45	Sc	127156.66	0.77	127347.77	99.8	80 -	120
72	Ge	31277.56	0.39	31182.67	100.3	80 -	120
115	In	222779.86	1.00	222466.14	100.1	80 -	120
209	Bi	207516.66	0.98	206688.89	100.4	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2922a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2922a.B\008CALI.D\008CALI.D#
Date Acquired: Mar 29 2006 10:53 pm
Operator:
Sample Name: CS5,S2886
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 29 2006 10:49 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	66930.00	P	1936.00	2.89
9	Be	23302.22	P	83.36	0.36
23	Na	10076480.00	A	115700.00	1.15
26	Mg	1087814.00	A	12820.00	1.18
27	Al	85364.44	P	1067.00	1.25
39	K	13622430.00	A	26730.00	0.20
44	Ca	421686.19	P	3353.00	0.80
45	Sc	125534.40	P	4107.00	3.27
51	V	178059.20	P	674.50	0.38
52	Cr	153525.59	P	843.40	0.55
55	Mn	202570.00	P	92.91	0.05
57	Fe	410604.41	P	681.30	0.17
59	Co	168687.80	P	1120.00	0.66
60	Ni	38067.78	P	389.30	1.02
65	Cu	44339.78	P	475.00	1.07
66	Zn	26644.56	P	332.60	1.25
72	Ge	31098.22	P	779.20	2.51
75	As	30816.69	P	141.40	0.46
82	Se	1724.44	P	34.21	1.98
95	Mo	47686.66	P	136.80	0.29
109	Ag	121275.60	P	1055.00	0.87
111	Cd	26077.29	P	398.70	1.53
115	In	212305.91	P	6174.00	2.91
121	Sb	117892.20	P	560.30	0.48
137	Ba	42237.78	P	150.00	0.36
205	Tl	241608.91	P	2745.00	1.14
208	Pb	354152.19	P	9506.00	2.68
209	Bi	189536.70	P	4456.00	2.35

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	66930.00	2.89	67444.45	99.2	80 - 120	

45	Sc	125534.44	3.27	127347.77	98.6	80 -	120
72	Ge	31098.22	2.51	31182.67	99.7	80 -	120
115	In	212305.92	2.91	222466.14	95.4	80 -	120
209	Bi	189536.66	2.35	206688.89	91.7	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2922a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C2922a.B\009CALI.D\009CALI.D#
Date Acquired: Mar 29 2006 10:59 pm
Operator:
Sample Name: CS6,S2887
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 29 2006 10:55 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	67471.11	P	701.80	1.04
9	Be	46288.89	P	316.70	0.68
23	Na	19718790.00	A	102100.00	0.52
26	Mg	2117501.00	A	23620.00	1.12
27	Al	166850.00	P	1354.00	0.81
39	K	25970290.00	A	23770.00	0.09
44	Ca	842562.19	M	20540.00	2.44
45	Sc	126352.20	P	703.90	0.56
51	V	349881.19	P	4235.00	1.21
52	Cr	298347.81	P	1807.00	0.61
55	Mn	390992.19	P	1450.00	0.37
57	Fe	795890.00	P	2595.00	0.33
59	Co	329656.69	P	1770.00	0.54
60	Ni	73142.22	P	356.90	0.49
65	Cu	85238.73	P	664.60	0.78
66	Zn	51242.75	P	642.30	1.25
72	Ge	31113.55	P	276.50	0.89
75	As	59813.02	P	25.67	0.04
82	Se	3244.22	P	14.08	0.43
95	Mo	92748.88	P	1573.00	1.70
109	Ag	233082.20	P	1556.00	0.67
111	Cd	49724.83	P	250.00	0.50
115	In	210107.41	P	1528.00	0.73
121	Sb	229137.80	P	1475.00	0.64
137	Ba	81803.33	P	179.40	0.22
205	Tl	466408.91	P	4875.00	1.05
208	Pb	688871.13	P	4246.00	0.62
209	Bi	189106.70	P	4727.00	2.50

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	67471.11	1.04	67444.45	100.0	80 - 120	

45	Sc	126352.22	0.56	127347.77	99.2	80 -	120
72	Ge	31113.56	0.89	31182.67	99.8	80 -	120
115	In	210107.41	0.73	222466.14	94.4	80 -	120
209	Bi	189106.66	2.50	206688.89	91.5	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C2922a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Summary

Calibration : C:\ICPCHEM\1\CALIB\60200111.C
Last Calib: Mar 29, 2006 23:00
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\06c2922a.b\003calb.d\	003calb.d#	Mar 29 2006 10:25 pm
2	...hem\1\data\06c2922a.b\004cali.d\	004cali.d#	Mar 29 2006 10:30 pm
3	...hem\1\data\06c2922a.b\005cali.d\	005cali.d#	Mar 29 2006 10:36 pm
4	...hem\1\data\06c2922a.b\006cali.d\	006cali.d#	Mar 29 2006 10:42 pm
5	...hem\1\data\06c2922a.b\007cali.d\	007cali.d#	Mar 29 2006 10:47 pm
6	...hem\1\data\06c2922a.b\008cali.d\	008cali.d#	Mar 29 2006 10:53 pm
7	...hem\1\data\06c2922a.b\009cali.d\	009cali.d#	Mar 29 2006 10:59 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	Excluded	---	ppb
Be	9	6	Y = 1.720E-1*X +1.647E-2(blank)	---	ppb
Na	23	45	Y = 3.920E-1*X +7.911E+0(blank)	---	ppb
Mg	25	45	Excluded	---	ppb
Mg	26	45	Y = 4.218E-2*X +9.215E-2(blank)	---	ppb
Al	27	45	Y = 3.285E-1*X +5.873E-1(blank)	---	ppb
K	39	45	Y = 5.133E-1*X +1.081E+2(blank)	---	ppb
Ca	43	45	Excluded	---	ppb
Ca	44	45	Y = 1.665E-2*X +8.706E-1(blank)	---	ppb
Sc	45	---	Excluded	---	ppb
V	51	72	Y = 2.818E+0*X +7.146E-1(blank)	---	ppb
Cr	52	72	Y = 2.403E+0*X +1.513E+0(blank)	---	ppb
Cr	53	72	Excluded	---	ppb
Fe	54	72	Excluded	---	ppb
Mn	55	72	Y = 3.162E+0*X +6.236E-1(blank)	---	ppb
Fe	57	72	Y = 6.410E-2*X +4.534E+0(blank)	---	ppb
Co	59	72	Y = 2.661E+0*X +1.318E-1(blank)	---	ppb
Ni	60	72	Y = 5.921E-1*X +1.051E-1(blank)	---	ppb
Cu	63	72	Excluded	---	ppb
Cu	65	72	Y = 6.901E-1*X +7.662E-2(blank)	---	ppb
Zn	66	72	Y = 4.120E-1*X +5.273E-1(blank)	---	ppb
Ge	72	---	Excluded	---	ppb
As	75	72	Y = 4.830E-1*X +1.030E-1(blank)	---	ppb
(As)	77	72	Excluded	---	ppb
Se	82	72	Y = 2.604E-2*X +6.064E-2(blank)	---	ppb
(As)	83	72	Excluded	---	ppb
(Ca)	88	72	Excluded	---	ppb
Y	89	72	Excluded	---	ppb
Mo	95	72	Y = 7.491E-1*X +6.236E-2(blank)	---	ppb
Mo	98	72	Excluded	---	ppb
(Mo)	99	72	Excluded	---	ppb
(Cd)	106	72	Excluded	---	ppb
(Cd)	108	72	Excluded	---	ppb
Ag	109	72	Y = 1.888E+0*X +7.660E-2(blank)	---	ppb
Cd	111	72	Y = 4.032E-1*X +5.653E-2(blank)	---	ppb
Cd	114	72	Excluded	---	ppb
In	115	---	Excluded	---	ppb
(In)	118	---	Excluded	---	ppb
Sb	121	115	Y = 2.734E-1*X +4.071E-2(blank)	---	ppb
Ba	135	115	Excluded	---	ppb
Ba	137	115	Y = 9.773E-2*X +6.744E-3(blank)	---	ppb
Tb	159	---	Excluded	---	ppb
Er	166	115	Excluded	---	ppb
Tl	205	209	Y = 6.202E-1*X +1.161E-1(blank)	---	ppb
(Pb)	206	209	Excluded	---	ppb
(Pb)	207	209	Excluded	---	ppb
Pb	208	209	Y = 9.152E-1*X +5.296E-2(blank)	---	ppb
Bi	209	---	Excluded	---	ppb
Th	232	209	--------	---	ppb
U	238	209	--------	---	ppb

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56128053010 File : c2922010 Time : 29-MAR-2006 23:04
Cal : 56128053001 Caldate: 29-MAR-2006
Standards: S2895

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	0.5079	0.3375	100.0	100.9	ug/L	1	10	
Antimony	0.3006	0.2705	100.0	98.80	ug/L	-1	10	
Arsenic	0.5542	0.4791	100.0	98.97	ug/L	-1	10	
Barium	0.1076	0.0968	100.0	99.02	ug/L	-1	10	
Beryllium	0.1807	0.1685	100.0	97.91	ug/L	-2	10	
Cadmium	0.4862	0.4054	100.0	100.4	ug/L	0	10	
Calcium	0.0209	0.0165	10000	9873	ug/L	-1	10	
Chromium	3.3721	2.4454	100.0	101.1	ug/L	1	10	
Cobalt	2.9639	2.6953	100.0	101.2	ug/L	1	10	
Copper	0.7573	0.6978	100.0	101.0	ug/L	1	10	
Iron	0.0917	0.0653	10000	10120	ug/L	1	10	
Lead	0.9301	0.9236	100.0	100.9	ug/L	1	10	
Magnesium	0.0414	0.0434	10000	10280	ug/L	3	10	
Manganese	4.0089	3.2277	100.0	101.9	ug/L	2	10	
Molybdenum	0.7750	0.7498	100.0	100.0	ug/L	0	10	
Nickel	0.7128	0.5975	100.0	100.7	ug/L	1	10	
Potassium	1.1792	0.5326	10000	10170	ug/L	2	10	
Selenium	0.0706	0.0269	100.0	100.9	ug/L	1	10	
Silver	1.9783	1.8984	100.0	100.5	ug/L	1	10	
Sodium	0.4315	0.3998	10000	10180	ug/L	2	10	
Thallium	0.6449	0.6281	100.0	101.1	ug/L	1	10	
Vanadium	3.2082	2.8187	100.0	99.79	ug/L	0	10	
Zinc	0.6810	0.4240	100.0	101.6	ug/L	2	10	

ISTD (ICALBLK c2922003)	ICALBLK Abund	Abund	%Drift
Lithium	67444	68974	2.27
Scandium	127348	125861	-1.17
Germanium	31183	30957	-0.72
Indium	222466	211622	-4.87
Bismuth	206689	185980	-10.02

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56128053024 File : c2922024 Time : 30-MAR-2006 00:23
Cal : 56128053001 Caldate: 29-MAR-2006
Standards: S2897

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	0.5079	0.3369	150.0	152.0	ug/L	1	10	
Antimony	0.3006	0.2743	150.0	150.3	ug/L	0	10	
Arsenic	0.5542	0.4715	150.0	146.2	ug/L	-3	10	
Barium	0.1076	0.0986	150.0	151.2	ug/L	1	10	
Beryllium	0.1807	0.1698	150.0	148.1	ug/L	-1	10	
Cadmium	0.4862	0.4005	150.0	148.9	ug/L	-1	10	
Calcium	0.0209	0.0169	15000	15150	ug/L	1	10	
Chromium	3.3721	2.4160	150.0	150.2	ug/L	0	10	
Cobalt	2.9639	2.7038	150.0	152.4	ug/L	2	10	
Copper	0.7573	0.7053	150.0	153.2	ug/L	2	10	
Iron	0.0917	0.0654	15000	15240	ug/L	2	10	
Lead	0.9301	0.9314	150.0	152.6	ug/L	2	10	
Magnesium	0.0414	0.0426	15000	15150	ug/L	1	10	
Manganese	4.0089	3.2501	150.0	154.0	ug/L	3	10	
Molybdenum	0.7750	0.7688	150.0	153.8	ug/L	3	10	
Nickel	0.7128	0.6036	150.0	152.7	ug/L	2	10	
Potassium	1.1792	0.5325	15000	15350	ug/L	2	10	
Selenium	0.0706	0.0262	150.0	148.4	ug/L	-1	10	
Silver	1.9783	1.9041	150.0	151.2	ug/L	1	10	
Sodium	0.4315	0.3920	15000	14980	ug/L	0	10	
Thallium	0.6449	0.6472	150.0	156.3	ug/L	4	10	
Vanadium	3.2082	2.8178	150.0	149.8	ug/L	0	10	
Zinc	0.6810	0.4101	150.0	148.0	ug/L	-1	10	

ISTD (ICALBLK c2922003)	ICALBLK Abund	Abund	%Drift
Lithium	67444	56420	-16.35
Scandium	127348	108174	-15.06
Germanium	31183	27341	-12.32
Indium	222466	183561	-17.49
Bismuth	206689	156786	-24.14

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56128053011 File : c2922011 Time : 29-MAR-2006 23:10
Cal : 56128053001 Caldate: 29-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.07169]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1691]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	[0.07076]	0.2500	0.04566	ug/L	!ib
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.02004]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.06303]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.4286]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2922003)	ICALBLK Abund	Abund	%Drift
Lithium	67444	69680	3.31
Scandium	127348	123167	-3.28
Germanium	31183	30024	-3.72
Indium	222466	212045	-4.68
Bismuth	206689	189246	-8.44

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56128053026 File : c2922026 Time : 30-MAR-2006 00:34
Cal : 56128053001 Caldate: 29-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.02795]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c2922003)	ICALBLK Abund	Abund	%Drift
Lithium	67444	57462	-14.80
Scandium	127348	106294	-16.53
Germanium	31183	26321	-15.59
Indium	222466	185612	-16.57
Bismuth	206689	159122	-23.01

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56128053013 File : c2922013 Time : 29-MAR-2006 23:21
Cal : 56128053001 Caldate: 29-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.355	0.2500	ug/L	
Arsenic	[0.4694]	0.5000	ug/L	
Barium	1.089	0.2500	ug/L	
Beryllium	[0]	0.2500	ug/L	
Cadmium	[0.003442]	0.2500	ug/L	
Chromium	1.793	0.5000	ug/L	
Cobalt	2.847	0.2500	ug/L	
Copper	1.861	0.5000	ug/L	
Lead	1.271	0.2500	ug/L	
Manganese	1.067	0.2500	ug/L	
Nickel	1.425	0.2500	ug/L	
Selenium	0.8848	0.5000	ug/L	
Silver	[0.1367]	0.2500	ug/L	
Thallium	[0.04033]	0.5000	ug/L	
Vanadium	[0.2767]	1.000	ug/L	
Zinc	3.779	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	102700	ug/L	103
Calcium	300000	313300	ug/L	104
Iron	250000	255600	ug/L	102
Magnesium	100000	97870	ug/L	98
Molybdenum	2000	2090	ug/L	105
Potassium	100000	101900	ug/L	102
Sodium	250000	249800	ug/L	100

ISTD (ICALBLK c2922003)	ICALBLK Abund	Abund	%Drift
Lithium	67444	58952	-12.59
Scandium	127348	117554	-7.69
Germanium	31183	29377	-5.79
Indium	222466	187517	-15.71
Bismuth	206689	159001	-23.07

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56128053014 File : c2922014 Time : 29-MAR-2006 23:26
Cal : 56128053001 Caldate: 29-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	99960	ug/L	0		
Arsenic	100.0	106.7	ug/L	7	20	
Cadmium	100.0	99.23	ug/L	-1	20	
Calcium	300000	308300	ug/L	3		
Chromium	200.0	206.1	ug/L	3	20	
Cobalt	200.0	204.2	ug/L	2	20	
Copper	200.0	198.8	ug/L	-1	20	
Iron	250000	252800	ug/L	1		
Magnesium	100000	94860	ug/L	-5		
Manganese	200.0	205.4	ug/L	3	20	
Molybdenum	2000	2181	ug/L	9		
Nickel	200.0	198.0	ug/L	-1	20	
Potassium	100000	99940	ug/L	0		
Selenium	100.0	105.9	ug/L	6	20	
Silver	50.00	49.01	ug/L	-2	20	
Sodium	250000	243000	ug/L	-3		
Vanadium	200.0	209.5	ug/L	5	20	
Zinc	100.0	103.1	ug/L	3	20	

ISTD (ICALBLK c2922003)	ICALBLK Abund	Abund	%Drift
Scandium	127348	122827	-3.55
Germanium	31183	30408	-2.48

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56128053031 File : c2922031 Time : 30-MAR-2006 01:02
Cal : 56128053001 Caldate: 29-MAR-2006
Standards: S2893, 05WS0207

Interferent	Quant	RL	Units	Flags
Antimony	2.190	0.2500	ug/L	
Arsenic	0.7907	0.5000	ug/L	
Barium	1.082	0.2500	ug/L	
Beryllium	[0]	0.2500	ug/L	
Cadmium	[0]	0.2500	ug/L	
Chromium	1.606	0.5000	ug/L	
Cobalt	2.848	0.2500	ug/L	
Copper	1.822	0.5000	ug/L	
Lead	1.300	0.2500	ug/L	
Manganese	1.133	0.2500	ug/L	
Nickel	1.488	0.2500	ug/L	
Selenium	[0.3223]	0.5000	ug/L	
Silver	[0.1498]	0.2500	ug/L	
Thallium	[0]	0.5000	ug/L	
Vanadium	[0.2473]	1.000	ug/L	
Zinc	3.543	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	102000	ug/L	102
Calcium	300000	312900	ug/L	104
Iron	250000	257200	ug/L	103
Magnesium	100000	96370	ug/L	96
Molybdenum	2000	2057	ug/L	103
Potassium	100000	101900	ug/L	102
Sodium	250000	247700	ug/L	99

ISTD (ICALBLK c2922003)	ICALBLK Abund	Abund	%Drift
Lithium	67444	54177	-19.67
Scandium	127348	103420	-18.79
Germanium	31183	25526	-18.14
Indium	222466	157023	-29.42
Bismuth	206689	123914	-40.05

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05
Seqnum : 56128053032 File : c2922032
Cal : 56128053001 Caldate: 29-MAR-2006
Standards: S2894, 05WS0207

IDF : 1.0
Time : 30-MAR-2006 01:08

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	101700	ug/L	2		
Arsenic	100.0	101.6	ug/L	2	20	
Cadmium	100.0	92.53	ug/L	-7	20	
Calcium	300000	310400	ug/L	3		
Chromium	200.0	209.8	ug/L	5	20	
Cobalt	200.0	206.9	ug/L	3	20	
Copper	200.0	200.4	ug/L	0	20	
Iron	250000	258200	ug/L	3		
Magnesium	100000	95910	ug/L	-4		
Manganese	200.0	211.8	ug/L	6	20	
Molybdenum	2000	2065	ug/L	3		
Nickel	200.0	201.0	ug/L	1	20	
Potassium	100000	100800	ug/L	1		
Selenium	100.0	105.1	ug/L	5	20	
Silver	50.00	47.43	ug/L	-5	20	
Sodium	250000	244700	ug/L	-2		
Vanadium	200.0	212.7	ug/L	6	20	
Zinc	100.0	101.5	ug/L	2	20	

ISTD (ICALBLK c2922003)	ICALBLK Abund	Abund	%Drift
Scandium	127348	109382	-14.11
Germanium	31183	26501	-15.01

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56128053 Instrument: MET05 Agilent ICP-MS Begun: 29-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	c2922001	TUN				29-MAR-2006 22:13	1.0	1.0			1	
003	c2922003	ICALBLK	std-blk			29-MAR-2006 22:25	1.0	1.0			2	
004	c2922004	ICAL	CS1			29-MAR-2006 22:30	1.0	1.0			3	
005	c2922005	ICAL	CS2			29-MAR-2006 22:36	1.0	1.0			4	
006	c2922006	ICAL	CS3			29-MAR-2006 22:42	1.0	1.0			5	
007	c2922007	ICAL	CS4			29-MAR-2006 22:47	1.0	1.0			6	
008	c2922008	ICAL	CS5			29-MAR-2006 22:53	1.0	1.0			7	
009	c2922009	ICAL	CS6			29-MAR-2006 22:59	1.0	1.0			8	
010	c2922010	ICV				29-MAR-2006 23:04	1.0	1.0		1	9	
011	c2922011	ICB				29-MAR-2006 23:10	1.0	1.0		1	2	
013	c2922013	ICSA				29-MAR-2006 23:21	1.0	1.0		1	10 2	7:CA=313300
014	c2922014	ICSAB				29-MAR-2006 23:26	1.0	1.0		1	11 2	11:CA=308300
016	c2922016	SAMPLE	185586-019	111436	Filtra	29-MAR-2006 23:38	20.0	1.0		1	2	
017	c2922017	SAMPLE	185586-020	111436	Filtra	29-MAR-2006 23:43	20.0	1.0		1	2	
018	c2922018	SAMPLE	185586-021	111436	Filtra	29-MAR-2006 23:49	20.0	1.0		1	2	
019	c2922019	SAMPLE	185586-022	111436	Filtra	29-MAR-2006 23:55	20.0	1.0		1	2	708
020	c2922020	SAMPLE	185586-023	111436	Filtra	30-MAR-2006 00:00	20.0	1.0		1	2	
021	c2922021	SAMPLE	185586-024	111436	Filtra	30-MAR-2006 00:06	20.0	1.0		1	2	
022	c2922022	SAMPLE	185586-025	111436	Filtra	30-MAR-2006 00:12	20.0	1.0		1	2	
023	c2922023	SAMPLE	185586-026	111436	Filtra	30-MAR-2006 00:17	20.0	1.0		1	2	
024	c2922024	CCV				30-MAR-2006 00:23	1.0	1.0		1	12	
026	c2922026	CCB				30-MAR-2006 00:34	1.0	1.0		1	2	
031	c2922031	ICSA				30-MAR-2006 01:02	1.0	1.0		1	10 2	7:CA=312900
032	c2922032	ICSAB				30-MAR-2006 01:08	1.0	1.0		1	11 2	13:CA=310400
073	c2922073	TUN				30-MAR-2006 04:58	1.0	1.0	4		1 t	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897
Flags used: t=tune failure

Analyst: Melin Date: 3/28/6

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56129329002
Units : ug/L

Date : 30-MAR-2006 19:40
X Axis : R

Reviewer: ---
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	c3019004	56129329004	CS1	30-MAR-2006 19:46	S2889
L2	c3019005	56129329005	CS2	30-MAR-2006 19:52	S2890
L3	c3019006	56129329006	CS3	30-MAR-2006 19:57	S2891
L4	c3019007	56129329007	CS4	30-MAR-2006 20:03	S2892
L5	c3019008	56129329008	CS5	30-MAR-2006 20:08	S2886
L6	c3019009	56129329009	CS6	30-MAR-2006 20:14	S2887

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		3.3236	1.7102	0.3962	0.3906	0.3783	BLNK	-4.9025	2.70578		1.2398	0.999	0.995	
Antimony	0.3373	0.2869	0.2566	0.2548	0.2617	0.2602	BLNK	-0.0882	3.84139		0.2762	1.000	0.995	
Arsenic		0.4911	0.4830	0.4243	0.4207	0.4169	BLNK	-0.1061	2.39580		0.4472	1.000	0.995	
Barium	0.1117	0.1007	0.0932	0.0838	0.0861	0.0882	BLNK	-0.0854	11.4008		0.0940	1.000	0.995	
Beryllium	0.1935	0.1619	0.1596	0.1462	0.1528	0.1526	BLNK	-0.0620	6.55573		0.1611	1.000	0.995	
Cadmium	0.5372	0.4022	0.3820	0.3198	0.3100	0.3054	BLNK	-0.1705	3.26725		0.3761	1.000	0.995	
Calcium		0.0392	0.0265	0.0160	0.0172	0.0169	BLNK	-70.825	59.2979		0.0232	1.000	0.995	
Chromium		5.0676	3.8535	2.5063	2.4184	2.3681	BLNK	-0.6019	0.42201		3.2428	1.000	0.995	
Cobalt	3.3157	2.9573	2.7102	2.5485	2.5203	2.4751	BLNK	-0.0748	0.40271		2.7545	1.000	0.995	
Copper		0.8770	0.7692	0.6602	0.6360	0.6258	BLNK	-0.1247	1.59382		0.7136	1.000	0.995	
Iron		0.1639	0.1130	0.0669	0.0694	0.0673	BLNK	-78.670	14.8444		0.0961	1.000	0.995	
Lead	0.9487	0.8292	0.7956	0.7412	0.8241	0.7758	BLNK	-0.0737	1.27389		0.8191	0.999	0.995	
Magnesium		0.0587	0.0522	0.0444	0.0507	0.0490	BLNK	-19.487	20.3048		0.0510	1.000	0.995	
Manganese	7.5376	4.9800	4.2097	3.2375	3.1166	3.2634	BLNK	-0.3030	0.30979		4.3908	0.999	0.995	
Molybdenum		0.7582	0.7020	0.6049	0.6009	0.5997	BLNK	-0.1988	1.66882		0.6531	1.000	0.995	
Nickel	1.3669	0.8890	0.7449	0.5894	0.5645	0.5505	BLNK	-0.3435	1.81084		0.7842	1.000	0.995	
Potassium		2.6168	1.7380	0.6382	0.5367	0.5266	BLNK	-201.04	1.91439		1.2113	1.000	0.995	
Selenium		0.0739	0.0532	0.0232	0.0220	0.0219	BLNK	-1.1963	45.9952		0.0389	1.000	0.995	
Silver	1.6275	1.4653	1.4012	1.2769	1.2795	1.2899	BLNK	-0.0626	0.77681		1.3901	1.000	0.995	
Sodium		0.9282	0.6189	0.4859	0.4870	0.4761	BLNK	-60.685	2.09861		0.5992	1.000	0.995	
Thallium		0.5910	0.5510	0.5413	0.5602	0.5639	BLNK	-0.0749	1.77655		0.5615	1.000	0.995	
Vanadium		3.7448	3.4467	2.7651	2.7795	2.7713	BLNK	-0.1533	0.36097		3.1015	1.000	0.995	
Zinc		1.6379	0.9150	0.4440	0.3925	0.3920	BLNK	-1.0943	2.56671		0.7563	1.000	0.995	

709

BLNK=Y=aX+[blank]

Instrument amount = a0 + response * a1 + response^2 * a2

56129329002

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56129329 Instrument: MET05 Agilent ICP-MS Begun: 30-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC SPK uL	VL	pH	Stds Used	>LR
001	c3019001	TUN				30-MAR-2006 19:29	1.0				1	
003	c3019003	ICALBLK	std-blk			30-MAR-2006 19:40	1.0				2	
004	c3019004	ICAL	CS1			30-MAR-2006 19:46	1.0				3	
005	c3019005	ICAL	CS2			30-MAR-2006 19:52	1.0				4	
006	c3019006	ICAL	CS3			30-MAR-2006 19:57	1.0				5	
007	c3019007	ICAL	CS4			30-MAR-2006 20:03	1.0				6	
008	c3019008	ICAL	CS5			30-MAR-2006 20:08	1.0				7	
009	c3019009	ICAL	CS6			30-MAR-2006 20:14	1.0				8	

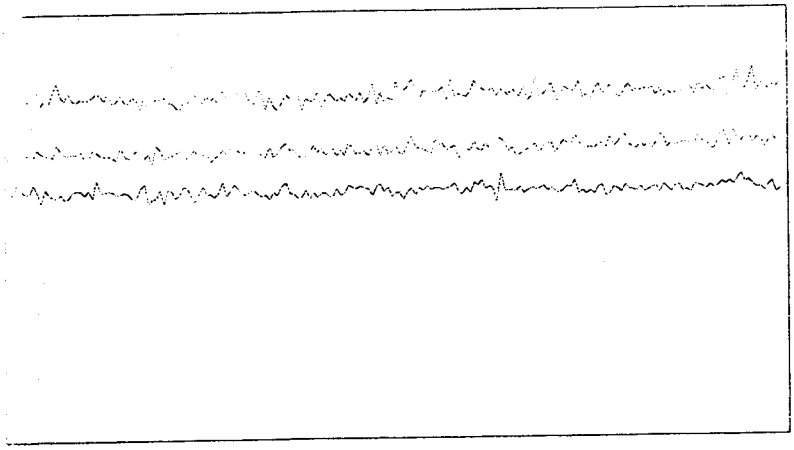
710

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887

Analyst: _____ Date: _____

Tune Report

Tune File : ATUNE.U



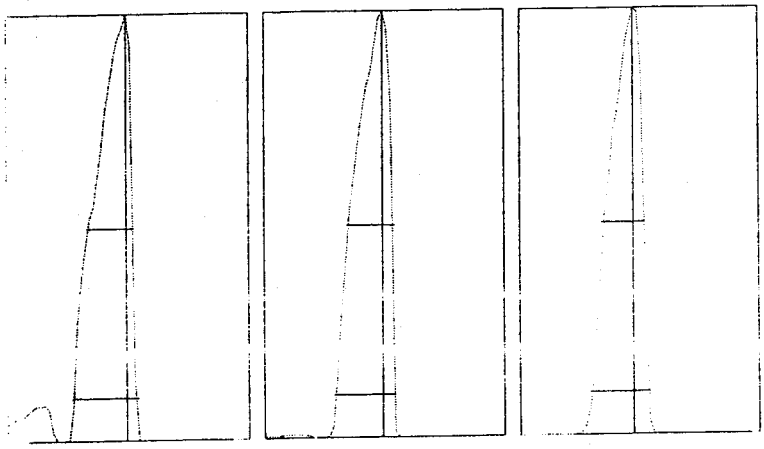
m/z:	7	89	205
Range:	20,000	20,000	20,000
Count:	11,444	16,461	13,911
Mean:	11556.8	16093.5	13522.1
RSD%:	1.93	1.89	1.87
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.37%
Doubly Charged:	70/140	0.78%

Background:

m/z:	7	89	205
Cps:	11.5	6.7	9.7



m/z:	7	89	205
Height:	11,635	16,042	13,690
Axis:	7.00	89.00	204.95
W-50%:	0.60	0.60	0.55
W-10%:	0.800	0.7500	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1220 W	Extract 1:	-156.2 V	AMU Gain:	130
RF Matching:	1.62 V	Extract 2:	-66 V	AMU Offset:	125
Smpl Depth:	6.5 mm	Einzel 1,3:	-122 V	Axis Gain:	0.9998
Torch-H:	0 mm	Einzel 2:	-4 V	Axis Offset:	-0.15
Torch-V:	0.4 mm	Omega Bias:	-46 V	QP Bias:	1.5 V
Carrier Gas:	1.19 L/min	Omega (+):	5 V		
Makeup Gas:	0 L/min	Omega (-):	-3.7 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	5.2 V	Discriminator:	8.7 mV
PeriPump1:	0.1 rps	Plate Bias:	-12.5 V	Analog HV:	1760 V
PeriPump2:	--- rps			Pulse HV:	1240 V
S/C Temp:	2 degC				

Generated : Mar 30, 2006 09:49:13
Printed : Mar 30, 2006 09:49:20

P/A Factor Tuning Report

Acquired:Mar 30 2006 10:07 am

Mass[amu]	Element	P/A Factor
6	Li	0.074210
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.100901
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.105393
45	Sc	0.099089
51	V	0.104685
52	Cr	0.106722
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.109199
57	Fe	0.112477
59	Co	0.112300
60	Ni	Sensitivity too low
63	Cu	0.113761
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.110395
95	Mo	Sensitivity too low
98	Mo	0.109495
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.118965
111	Cd	Sensitivity too low
114	Cd	0.116642
115	In	0.118618
118	(In)	Sensitivity too high
121	Sb	0.118125
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.122788
166	Er	Sensitivity too low

205	Tl	0.130809
206	(Pb)	0.126574
207	(Pb)	Sensitivity too low
208	Pb	0.129572
209	Bi	0.127189

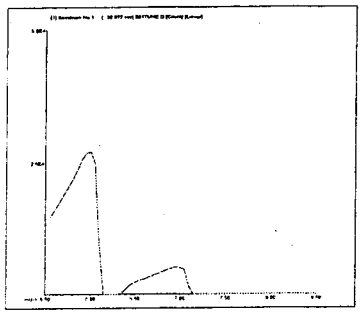
===Detector Parameters===
Discriminator: 8.7 mV
Analog HV: 1760 V
Pulse HV: 1240 V

6020 QC Tune Report

Data File:	C:\ICPCHEM\1\DATA\06C3019a.B\001TUNE.D
Date Acquired:	Mar 30 2006 07:29 pm
Acq. Method:	TN6020.M
Operator:	
Sample Name:	TUN,S2898
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

Element	Actual	Required	Flag
7 Li	2.64	5.00	
59 Co	3.25	5.00	
115 In	0.88	5.00	
205 Tl	2.91	5.00	



7 Li

Mass Calib.

Actual: 6.95

Required: 6.90 - 7.10

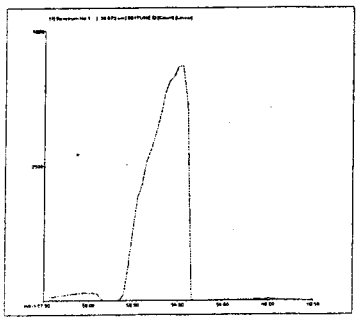
Flag:

Peak Width

Actual: 0.50

Required: 0.90

Flag:



59 Co

Mass Calib.

Actual: 59.00

Required: 58.90 - 59.10

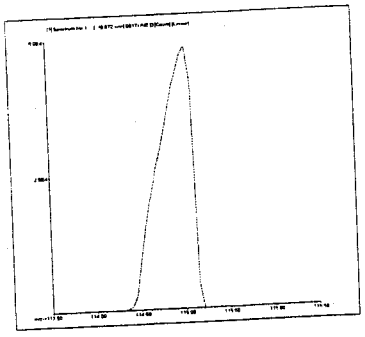
Flag:

Peak Width

Actual: 0.55

Required: 0.90

Flag:



115 In

Mass Calib.

Actual: 115.05

Required: 114.90 - 115.10

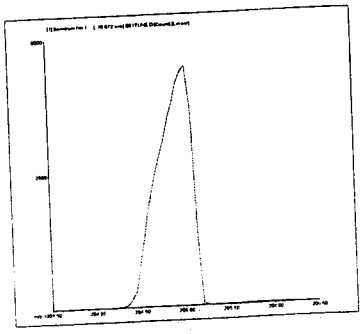
Flag:

Peak Width

Actual: 0.55

Required: 0.90

Flag:



205 Tl

Mass Calib.

Actual: 205.05

Required: 204.90 - 205.10

Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06C3019a.B\002BLNK.D\002BLNK.D#
Date Acquired:	Mar 30 2006 07:35 pm
Acq. Method:	60200111.M
Operator:	
Sample Name:	RINSE
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update:	Mar 30 2006 05:01 pm
Sample Type:	6-Blank
Dilution Factor:	1.00

QC Elements

Element	Corr. Conc.	RSD(%)	Raw Conc.	High Limit	Flag
9 Be	-0.001834 ppb	547.98	-0.001834	1.00	
23 Na	12.04 ppb	2.84	12.04	1.00	
26 Mg	1.255 ppb	17.32	1.255	1.00	
27 Al	0.2779 ppb	21.57	0.2779	1.00	
39 K	-21.48 ppb	13.25	-21.48	1.00	
44 Ca	-15.52 ppb	5.04	-15.52	1.00	
51 V	-0.02755 ppb	166.82	-0.02755	1.00	
52 Cr	-0.04695 ppb	57.51	-0.04695	1.00	
55 Mn	-0.03567 ppb	26.97	-0.03567	1.00	
57 Fe	-2.069 ppb	99.52	-2.069	1.00	
59 Co	-0.01864 ppb	10.48	-0.01864	1.00	
60 Ni	-0.2051 ppb	12.02	-0.2051	1.00	
65 Cu	-0.01468 ppb	154.22	-0.01468	1.00	
66 Zn	-0.07505 ppb	57.26	-0.07505	1.00	
75 As	-0.09156 ppb	73.19	-0.09156	1.00	
82 Se	-0.2532 ppb	73.22	-0.2532	1.00	
95 Mo	0.04532 ppb	17.69	0.04532	1.00	
109 Ag	-0.04798 ppb	37.60	-0.04798	1.00	
111 Cd	0.03505 ppb	82.14	0.03505	1.00	
121 Sb	-0.0135 ppb	73.59	-0.0135	1.00	
137 Ba	-0.01488 ppb	73.99	-0.01488	1.00	
205 Tl	0.05885 ppb	17.88	0.05885	1.00	
208 Pb	-0.01974 ppb	46.36	-0.01974	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	269385.53	0.31	---	#VALUE!	80 - 120	
45 Sc	319718.88	1.15	---	#VALUE!	80 - 120	
72 Ge	73775.56	0.32	---	#VALUE!	80 - 120	
115 In	398509.75	1.15	---	#VALUE!	80 - 120	
209 Bi	348766.66	4.23	---	#VALUE!	80 - 120	

ISTD Ref File : ---

2 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Fail
ISTD: Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06C3019a.B\003CAL
Date Acquired:	Mar 30 2006 07:40 pm
Operator:	
Sample Name:	std-blk
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 30 2006 05:01 pm
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean	SD	RSD(%)
6	Li	265096.69 P	12220.00	4.61
9	Be	50.00 P	10.00	20.00
23	Na	179321.09 P	12320.00	6.87
26	Mg	5946.67 P	592.50	9.96
27	Al	11236.67 P	701.50	6.24
39	K	652686.63 P	4085.00	0.63
44	Ca	7420.80 P	60.40	0.81
45	Sc	311196.69 P	15390.00	4.95
51	V	621.12 P	332.70	53.56
52	Cr	2062.22 P	10.18	0.49
55	Mn	1414.44 P	36.72	2.60
57	Fe	7656.67 P	270.60	3.53
59	Co	268.89 P	18.36	6.83
60	Ni	273.33 P	45.09	16.50
65	Cu	113.31 P	10.00	8.83
66	Zn	616.64 P	8.82	1.43
72	Ge	72358.22 P	2685.00	3.71
75	As	64.33 P	45.93	71.39
82	Se	37.78 P	7.73	20.45
95	Mo	171.11 P	50.59	29.57
109	Ag	116.67 P	17.64	15.12
111	Cd	75.28 P	9.89	13.14
115	In	387021.31 P	17680.00	4.57
121	Sb	177.78 P	16.78	9.44
137	Ba	57.78 P	8.39	14.52
205	Tl	287.78 P	38.63	13.42
208	Pb	393.33 P	23.33	5.93
209	Bi	340664.41 P	15570.00	4.57

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06C3019a.B\004CALI.D\004CALI.D#
Date Acquired:	Mar 30 2006 07:46 pm
Operator:	
Sample Name:	CS1,S2889
Misc Info:	
Vial Number:	1102
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 30 2006 07:42 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element	CPS Mean	SD	RSD(%)
6 Li	269726.69 P	4766.00	1.77
9 Be	261.11 P	40.18	15.39
23 Na	235285.50 P	9307.00	3.96
26 Mg	12186.67 P	138.60	1.14
27 Al	10406.67 P	444.60	4.27
39 K	734667.69 P	1510.00	0.21
44 Ca	9792.41 P	178.00	1.82
45 Sc	318391.09 P	2795.00	0.88
51 V	1776.86 P	425.80	23.96
52 Cr	4706.67 P	193.20	4.10
55 Mn	2763.33 P	126.60	4.58
57 Fe	10196.67 P	145.20	1.42
59 Co	1215.56 P	27.95	2.30
60 Ni	501.11 P	35.64	7.11
65 Cu	372.17 P	33.56	9.02
66 Zn	778.83 P	45.50	5.84
72 Ge	73320.89 P	58.76	0.08
75 As	287.44 P	68.98	24.00
82 Se	42.67 P	10.73	25.15
95 Mo	327.78 P	23.41	7.14
109 Ag	596.67 P	36.67	6.15
111 Cd	196.94 P	29.19	14.82
115 In	398043.69 P	4104.00	1.03
121 Sb	671.11 P	18.36	2.74
137 Ba	222.22 P	22.19	9.99
205 Tl	1200.00 P	98.38	8.20
208 Pb	1621.11 P	41.68	2.57
209 Bi	341930.00 P	12950.00	3.79

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	269726.66	1.77	265096.66	101.7	80 - 120	

45	Sc	318391.09	0.88	311196.66	102.3	80 -	120
72	Ge	73320.89	0.08	72358.23	101.3	80 -	120
115	In	398043.66	1.03	387021.31	102.8	80 -	120
209	Bi	341930.00	3.79	340664.44	100.4	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C3019a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06C3019a.B\005CALI.D\005CALI.D#
Date Acquired:	Mar 30 2006 07:52 pm
Operator:	
Sample Name:	CS2,S2890
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 30 2006 07:48 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element	CPS Mean	SD	RSD(%)
6 Li	271653.31 P	8454.00	3.11
9 Be	440.00 P	26.03	5.92
23 Na	300305.50 P	22840.00	7.61
26 Mg	19003.33 P	854.20	4.50
27 Al	10753.33 P	1651.00	15.35
39 K	846757.31 M	72100.00	8.51
44 Ca	12680.20 P	151.90	1.20
45 Sc	323581.09 P	2132.00	0.66
51 V	2766.85 P	239.50	8.66
52 Cr	3743.33 P	50.00	1.34
55 Mn	3678.89 P	157.00	4.27
57 Fe	12105.56 P	129.20	1.07
59 Co	2184.44 P	55.51	2.54
60 Ni	656.67 P	38.44	5.85
65 Cu	647.70 P	76.04	11.74
66 Zn	1209.91 P	34.64	2.86
72 Ge	73866.67 P	348.10	0.47
75 As	363.17 P	135.00	37.17
82 Se	54.67 P	18.41	33.68
95 Mo	560.00 P	43.33	7.74
109 Ag	1082.22 P	47.41	4.38
111 Cd	297.08 P	27.66	9.31
115 In	403799.31 P	7621.00	1.89
121 Sb	1157.78 P	33.55	2.90
137 Ba	406.67 P	43.59	10.72
205 Tl	2132.22 P	114.20	5.36
208 Pb	2994.44 P	255.70	8.54
209 Bi	360964.41 P	5127.00	1.42

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	271653.31	3.11	265096.66	102.5	80 -	120	

45	Sc	323581.09	0.66	311196.66	104.0	80 -	120
72	Ge	73866.66	0.47	72358.23	102.1	80 -	120
115	In	403799.31	1.89	387021.31	104.3	80 -	120
209	Bi	360964.44	1.42	340664.44	106.0	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C3019a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C3019a.B\006CALI.D\006CALI.D#
Date Acquired: Mar 30 2006 07:57 pm
Operator:
Sample Name: CS3,S2891
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 30 2006 07:53 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean	SD	RSD(%)
6 Li	269400.00 P	2072.00	0.77
9 Be	860.00 P	17.64	2.05
23 Na	397080.00 P	12360.00	3.11
26 Mg	33475.56 P	464.10	1.39
27 Al	10977.78 P	422.60	3.85
39 K	1115489.00 A	2713.00	0.24
44 Ca	17004.89 P	277.80	1.63
45 Sc	320963.31 P	5161.00	1.61
51 V	5036.71 P	128.20	2.55
52 Cr	5631.11 P	90.33	1.60
55 Mn	6151.11 P	115.50	1.88
57 Fe	16512.22 P	95.24	0.58
59 Co	3961.11 P	188.10	4.75
60 Ni	1088.89 P	32.89	3.02
65 Cu	1124.30 P	21.69	1.93
66 Zn	1336.50 P	131.70	9.85
72 Ge	73078.89 P	952.90	1.30
75 As	705.51 P	96.37	13.66
82 Se	77.78 P	9.62	12.37
95 Mo	1025.56 P	38.63	3.77
109 Ag	2047.78 P	13.47	0.66
111 Cd	558.22 P	65.84	11.80
115 In	396479.59 P	5162.00	1.30
121 Sb	2034.44 P	38.63	1.90
137 Ba	738.89 P	60.12	8.14
205 Tl	3865.55 P	102.20	2.64
208 Pb	5581.11 P	190.20	3.41
209 Bi	350725.50 P	2714.00	0.77

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	269400.00	0.77	265096.66	101.6	80 - 120	

45	Sc	320963.31	1.61	311196.66	103.1	80 -	120
72	Ge	73078.89	1.30	72358.23	101.0	80 -	120
115	In	396479.66	1.30	387021.31	102.4	80 -	120
209	Bi	350725.53	0.77	340664.44	103.0	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C3019a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C3019a.B\007CALI.D\007CALI.D#
Date Acquired: Mar 30 2006 08:03 pm
Operator:
Sample Name: CS4,S2892
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 30 2006 07:59 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	270234.41	P	9121.00	3.38
9 Be	7900.00	P	138.60	1.75
23 Na	3151323.00	A	32590.00	1.03
26 Mg	288241.09	P	1701.00	0.59
27 Al	25697.78	P	403.60	1.57
39 K	4138911.00	A	25950.00	0.63
44 Ca	104009.60	P	1474.00	1.42
45 Sc	324281.09	P	2468.00	0.76
51 V	40714.80	P	247.60	0.61
52 Cr	36902.22	P	266.60	0.72
55 Mn	47668.89	P	513.10	1.08
57 Fe	98502.22	P	406.70	0.41
59 Co	37526.67	P	262.10	0.70
60 Ni	8678.89	P	60.49	0.70
65 Cu	9722.09	P	167.00	1.72
66 Zn	6537.45	P	77.48	1.19
72 Ge	73625.11	P	587.90	0.80
75 As	6248.71	P	197.00	3.15
82 Se	341.56	P	28.73	8.41
95 Mo	8906.67	P	233.40	2.62
109 Ag	18803.33	P	282.60	1.50
111 Cd	4708.17	P	66.37	1.41
115 In	394221.50	P	4140.00	1.05
121 Sb	20086.67	P	73.11	0.36
137 Ba	6603.33	P	153.30	2.32
205 Tl	37833.33	P	589.70	1.56
208 Pb	51812.22	P	558.30	1.08
209 Bi	349506.69	P	2580.00	0.74

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	270234.44	3.38	265096.66	101.9	80 - 120	

45	Sc	324281.09	0.76	311196.66	104.2	80 -	120
72	Ge	73625.11	0.80	72358.23	101.8	80 -	120
115	In	394221.53	1.05	387021.31	101.9	80 -	120
209	Bi	349506.66	0.74	340664.44	102.6	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C3019a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06C3019a.B\008CALI.D\008CALI.D#
Date Acquired:	Mar 30 2006 08:08 pm
Operator:	
Sample Name:	CS5,S2886
Misc Info:	
Vial Number:	1106
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Mar 30 2006 08:04 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element	CPS Mean	SD	RSD(%)
6 Li	265403.31 P	6958.00	2.62
9 Be	81100.00 P	860.10	1.06
23 Na	31190600.00 A	320200.00	1.03
26 Mg	3248346.00 A	15930.00	0.49
27 Al	250193.30 P	1322.00	0.53
39 K	34373808.00 A	62110.00	0.18
44 Ca	1099404.00 A	10680.00	0.97
45 Sc	320247.81 P	1813.00	0.57
51 V	409864.00 P	1367.00	0.33
52 Cr	356627.81 P	1251.00	0.35
55 Mn	459540.00 P	5656.00	1.23
57 Fe	1023339.00 A	16970.00	1.66
59 Co	371651.09 P	1148.00	0.31
60 Ni	83240.00 P	234.00	0.28
65 Cu	93785.84 P	1052.00	1.12
66 Zn	57877.09 P	566.80	0.98
72 Ge	73735.56 P	695.20	0.94
75 As	62043.82 P	192.80	0.31
82 Se	3251.11 P	37.68	1.16
95 Mo	88605.55 P	137.00	0.15
109 Ag	188662.20 P	3016.00	1.60
111 Cd	45721.78 P	580.80	1.27
115 In	388998.19 P	4726.00	1.21
121 Sb	203574.41 P	2172.00	1.07
137 Ba	66983.33 P	1349.00	2.01
205 Tl	391936.69 P	2104.00	0.54
208 Pb	576556.63 P	4613.00	0.80
209 Bi	349840.00 P	3962.00	1.13

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	265403.31	2.62	265096.66	100.1	80 -	120	

45	Sc	320247.78	0.57	311196.66	102.9	80 -	120
72	Ge	73735.56	0.94	72358.23	101.9	80 -	120
115	In	388998.25	1.21	387021.31	100.5	80 -	120
209	Bi	349840.00	1.13	340664.44	102.7	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C3019a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C3019a.B\009CALI.D\009CALI.D#
Date Acquired: Mar 30 2006 08:14 pm
Operator:
Sample Name: CS6,S2887
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 30 2006 08:10 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	263024.41	P	10250.00	3.90
9 Be	160393.30	P	2317.00	1.44
23 Na	61138220.00	A	1022000.00	1.67
26 Mg	6288406.00	A	109100.00	1.73
27 Al	485837.69	P	14480.00	2.98
39 K	67622280.00	A	503300.00	0.74
44 Ca	2167931.00	A	17650.00	0.81
45 Sc	321021.09	P	2850.00	0.89
51 V	817241.81	P	9371.00	1.15
52 Cr	698337.69	P	4758.00	0.68
55 Mn	962318.00	A	13290.00	1.38
57 Fe	1983701.00	A	4553.00	0.23
59 Co	729902.19	P	8148.00	1.12
60 Ni	162346.70	P	967.30	0.60
65 Cu	184537.20	P	925.50	0.50
66 Zn	115610.80	P	1331.00	1.15
72 Ge	73722.00	P	416.20	0.56
75 As	122934.60	P	568.10	0.46
82 Se	6447.33	P	90.12	1.40
95 Mo	176858.91	P	3477.00	1.97
109 Ag	380390.00	P	5707.00	1.50
111 Cd	90071.34	P	680.40	0.76
115 In	387332.69	P	4201.00	1.08
121 Sb	403107.81	P	7484.00	1.86
137 Ba	136622.20	P	1071.00	0.78
205 Tl	787673.31	P	10830.00	1.37
208 Pb	1083488.00	P	12640.00	1.17
209 Bi	349202.19	P	6154.00	1.76

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	263024.44	3.90	265096.66	99.2	80 - 120	

45	Sc	321021.09	0.89	311196.66	103.2	80 -	120
72	Ge	73722.00	0.56	72358.23	101.9	80 -	120
115	In	387332.66	1.08	387021.31	100.1	80 -	120
209	Bi	349202.19	1.76	340664.44	102.5	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C3019a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Summary

Calibration : C:\ICPCHEM\1\CALIB\60200111.C
Last Calib: Mar 30, 2006 20:16
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\06c3019a.b\003calb.d\	003calb.d#	Mar 30 2006 07:40 pm
2	...hem\1\data\06c3019a.b\004cali.d\	004cali.d#	Mar 30 2006 07:46 pm
3	...hem\1\data\06c3019a.b\005cali.d\	005cali.d#	Mar 30 2006 07:52 pm
4	...hem\1\data\06c3019a.b\006cali.d\	006cali.d#	Mar 30 2006 07:57 pm
5	...hem\1\data\06c3019a.b\007cali.d\	007cali.d#	Mar 30 2006 08:03 pm
6	...hem\1\data\06c3019a.b\008cali.d\	008cali.d#	Mar 30 2006 08:08 pm
7	...hem\1\data\06c3019a.b\009cali.d\	009cali.d#	Mar 30 2006 08:14 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	Excluded	---	ppb
Be	9	6	Y = 1.525E-1*X +9.451E-3(blank)	---	ppb
Na	23	45	Y = 4.765E-1*X +2.892E+1(blank)	---	ppb
Mg	25	45	Excluded	---	ppb
Mg	26	45	Y = 4.925E-2*X +9.597E-1(blank)	---	ppb
Al	27	45	Y = 3.696E-1*X +1.812E+0(blank)	---	ppb
K	39	45	Y = 5.224E-1*X +1.050E+2(blank)	---	ppb
Ca	43	45	Excluded	---	ppb
Ca	44	45	Y = 1.686E-2*X +1.194E+0(blank)	---	ppb
Sc	45	---	Excluded	---	ppb
V	51	72	Y = 2.770E+0*X +4.246E-1(blank)	---	ppb
Cr	52	72	Y = 2.370E+0*X +1.426E+0(blank)	---	ppb
Cr	53	72	Excluded	---	ppb
Fe	54	72	Excluded	---	ppb
Mn	55	72	Y = 3.228E+0*X +9.782E-1(blank)	---	ppb
Fe	57	72	Y = 6.737E-2*X +5.300E+0(blank)	---	ppb
Co	59	72	Y = 2.483E+0*X +1.857E-1(blank)	---	ppb
Ni	60	72	Y = 5.522E-1*X +1.897E-1(blank)	---	ppb
Cu	63	72	Excluded	---	ppb
Cu	65	72	Y = 6.274E-1*X +7.822E-2(blank)	---	ppb
Zn	66	72	Y = 3.896E-1*X +4.263E-1(blank)	---	ppb
Ge	72	---	Excluded	---	ppb
As	75	72	Y = 4.174E-1*X +4.430E-2(blank)	---	ppb
(As)	77	72	Excluded	---	ppb
Se	82	72	Y = 2.174E-2*X +2.601E-2(blank)	---	ppb
(As)	83	72	Excluded	---	ppb
(Ca)	88	72	Excluded	---	ppb
Y	89	72	Excluded	---	ppb
Mo	95	72	Y = 5.992E-1*X +1.191E-1(blank)	---	ppb
Mo	98	72	Excluded	---	ppb
(Mo)	99	72	Excluded	---	ppb
(Cd)	106	72	Excluded	---	ppb
(Cd)	108	72	Excluded	---	ppb
Ag	109	72	Y = 1.287E+0*X +8.060E-2(blank)	---	ppb
Cd	111	72	Y = 3.061E-1*X +5.219E-2(blank)	---	ppb
Cd	114	72	Excluded	---	ppb
In	115	---	Excluded	---	ppb
(In)	118	---	Excluded	---	ppb
Sb	121	115	Y = 2.603E-1*X +2.297E-2(blank)	---	ppb
Ba	135	115	Excluded	---	ppb
Ba	137	115	Y = 8.771E-2*X +7.493E-3(blank)	---	ppb
Tb	159	---	Excluded	---	ppb
Er	166	115	Excluded	---	ppb
Tl	205	209	Y = 5.629E-1*X +4.215E-2(blank)	---	ppb
(Pb)	206	209	Excluded	---	ppb
(Pb)	207	209	Excluded	---	ppb
Pb	208	209	Y = 7.850E-1*X +5.786E-2(blank)	---	ppb
Bi	209	---	Excluded	---	ppb
Th	232	209	--------	---	ppb
U	238	209	--------	---	ppb

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05
Seqnum : 56129329010 File : c3019010
Cal : 56129329001 Caldate: 30-MAR-2006
Standards: S2895, 05WS0207

IDF : 1.0
Time : 30-MAR-2006 20:20

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	1.2398	0.3969	100.0	102.5	ug/L	3	10	
Antimony	0.2762	0.2635	100.0	101.1	ug/L	1	10	
Arsenic	0.4472	0.4173	100.0	99.87	ug/L	0	10	
Barium	0.0940	0.0878	100.0	100.0	ug/L	0	10	
Beryllium	0.1611	0.1521	100.0	99.64	ug/L	0	10	
Cadmium	0.3761	0.3076	100.0	100.3	ug/L	0	10	
Calcium	0.0232	0.0174	10000	10220	ug/L	2	10	
Chromium	3.2428	2.3979	100.0	100.6	ug/L	1	10	
Cobalt	2.7545	2.5163	100.0	101.3	ug/L	1	10	
Copper	0.7136	0.6340	100.0	100.9	ug/L	1	10	
Iron	0.0961	0.0683	10000	10050	ug/L	1	10	
Lead	0.8191	0.8218	100.0	104.6	ug/L	5	10	
Magnesium	0.0510	0.0514	10000	10410	ug/L	4	10	
Manganese	4.3908	3.0823	100.0	95.18	ug/L	-5	10	
Molybdenum	0.6531	0.5943	100.0	98.97	ug/L	-1	10	
Nickel	0.7842	0.5550	100.0	100.2	ug/L	0	10	
Potassium	1.2113	0.5439	10000	10210	ug/L	2	10	
Selenium	0.0389	0.0218	100.0	99.27	ug/L	-1	10	
Silver	1.3901	1.2951	100.0	100.5	ug/L	1	10	
Sodium	0.5992	0.4895	10000	10210	ug/L	2	10	
Thallium	0.5615	0.5564	100.0	98.77	ug/L	-1	10	
Vanadium	3.1015	2.7512	100.0	99.16	ug/L	-1	10	
Zinc	0.7563	0.3913	100.0	99.35	ug/L	-1	10	

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Lithium	265097	265071	-0.01
Scandium	311197	319156	2.56
Germanium	72358	74354	2.76
Indium	387021	389473	0.63
Bismuth	340664	357116	4.83

56129329010

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56129329024 File : c3019024
Cal : 56129329001 Caldate: 30-MAR-2006
Standards: S2897, 05WS0207

IDF : 1.0
Time : 30-MAR-2006 21:38

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.2398	0.3793	150.0	149.0	ug/L	-1	10	
Antimony	0.2762	0.2600	150.0	149.7	ug/L	0	10	
Arsenic	0.4472	0.4115	150.0	147.8	ug/L	-1	10	
Barium	0.0940	0.0885	150.0	151.2	ug/L	1	10	
Beryllium	0.1611	0.1507	150.0	148.1	ug/L	-1	10	
Cadmium	0.3761	0.3072	150.0	150.4	ug/L	0	10	
Calcium	0.0232	0.0169	15000	14980	ug/L	0	10	
Chromium	3.2428	2.3471	150.0	148.0	ug/L	-1	10	
Cobalt	2.7545	2.4769	150.0	149.5	ug/L	0	10	
Copper	0.7136	0.6253	150.0	149.4	ug/L	0	10	
Iron	0.0961	0.0676	15000	14970	ug/L	0	10	
Lead	0.8191	0.7933	150.0	151.5	ug/L	1	10	
Magnesium	0.0510	0.0503	15000	15300	ug/L	2	10	
Manganese	4.3908	3.0300	150.0	140.5	ug/L	-6	10	
Molybdenum	0.6531	0.5927	150.0	148.2	ug/L	-1	10	
Nickel	0.7842	0.5520	150.0	149.6	ug/L	0	10	
Potassium	1.2113	0.5293	15000	15000	ug/L	0	10	
Selenium	0.0389	0.0213	150.0	145.5	ug/L	-3	10	
Silver	1.3901	1.2587	150.0	146.6	ug/L	-2	10	
Sodium	0.5992	0.4875	15000	15280	ug/L	2	10	
Thallium	0.5615	0.5536	150.0	147.4	ug/L	-2	10	
Vanadium	3.1015	2.8528	150.0	154.3	ug/L	3	10	
Zinc	0.7563	0.3844	150.0	146.9	ug/L	-2	10	

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Lithium	265097	258038	-2.66
Scandium	311197	308953	-0.72
Germanium	72358	70893	-2.02
Indium	387021	373858	-3.40
Bismuth	340664	357519	4.95

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56129329034 File : c3019034
Cal : 56129329001 Caldate: 30-MAR-2006
Standards: S2897, 05WS0207

IDF : 1.0
Time : 30-MAR-2006 22:34

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.2398	0.3885	150.0	152.8	ug/L	2	10	
Antimony	0.2762	0.2553	150.0	147.0	ug/L	-2	10	
Arsenic	0.4472	0.4020	150.0	144.4	ug/L	-4	10	
Barium	0.0940	0.0892	150.0	152.5	ug/L	2	10	
Beryllium	0.1611	0.1497	150.0	147.1	ug/L	-2	10	
Cadmium	0.3761	0.3124	150.0	152.9	ug/L	2	10	
Calcium	0.0232	0.0168	15000	14840	ug/L	-1	10	
Chromium	3.2428	2.3482	150.0	148.0	ug/L	-1	10	
Cobalt	2.7545	2.4615	150.0	148.6	ug/L	-1	10	
Copper	0.7136	0.6219	150.0	148.5	ug/L	-1	10	
Iron	0.0961	0.0667	15000	14770	ug/L	-2	10	
Lead	0.8191	0.7845	150.0	149.8	ug/L	0	10	
Magnesium	0.0510	0.0514	15000	15640	ug/L	4	10	
Manganese	4.3908	3.0230	150.0	140.2	ug/L	-7	10	
Molybdenum	0.6531	0.5929	150.0	148.2	ug/L	-1	10	
Nickel	0.7842	0.5477	150.0	148.4	ug/L	-1	10	
Potassium	1.2113	0.5245	15000	14860	ug/L	-1	10	
Selenium	0.0389	0.0215	150.0	147.2	ug/L	-2	10	
Silver	1.3901	1.2710	150.0	148.0	ug/L	-1	10	
Sodium	0.5992	0.5072	15000	15910	ug/L	6	10	
Thallium	0.5615	0.5484	150.0	146.1	ug/L	-3	10	
Vanadium	3.1015	2.8589	150.0	154.6	ug/L	3	10	
Zinc	0.7563	0.3788	150.0	144.7	ug/L	-4	10	

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Lithium	265097	252090	-4.91
Scandium	311197	295638	-5.00
Germanium	72358	67122	-7.24
Indium	387021	367917	-4.94
Bismuth	340664	373623	9.67

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56129329049 File : c3019049
Cal : 56129329001 Caldate: 30-MAR-2006
Standards: S2897, 05WS0207

IDF : 1.0
Time : 30-MAR-2006 23:58

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.2398	0.3928	150.0	154.5	ug/L	3	10	
Antimony	0.2762	0.2532	150.0	145.8	ug/L	-3	10	
Arsenic	0.4472	0.4033	150.0	144.8	ug/L	-3	10	
Barium	0.0940	0.0909	150.0	155.4	ug/L	4	10	
Beryllium	0.1611	0.1431	150.0	140.7	ug/L	-6	10	
Cadmium	0.3761	0.3281	150.0	160.6	ug/L	7	10	
Calcium	0.0232	0.0167	15000	14790	ug/L	-1	10	
Chromium	3.2428	2.3605	150.0	148.8	ug/L	-1	10	
Cobalt	2.7545	2.5071	150.0	151.4	ug/L	1	10	
Copper	0.7136	0.6272	150.0	149.8	ug/L	0	10	
Iron	0.0961	0.0682	15000	15110	ug/L	1	10	
Lead	0.8191	0.7895	150.0	150.8	ug/L	1	10	
Magnesium	0.0510	0.0520	15000	15810	ug/L	5	10	
Manganese	4.3908	3.0444	150.0	141.2	ug/L	-6	10	
Molybdenum	0.6531	0.6182	150.0	154.6	ug/L	3	10	
Nickel	0.7842	0.5529	150.0	149.8	ug/L	0	10	
Potassium	1.2113	0.5213	15000	14770	ug/L	-2	10	
Selenium	0.0389	0.0217	150.0	148.4	ug/L	-1	10	
Silver	1.3901	1.3391	150.0	156.0	ug/L	4	10	
Sodium	0.5992	0.5205	15000	16330	ug/L	9	10	
Thallium	0.5615	0.5495	150.0	146.4	ug/L	-2	10	
Vanadium	3.1015	2.8725	150.0	155.4	ug/L	4	10	
Zinc	0.7563	0.3787	150.0	144.7	ug/L	-4	10	

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Lithium	265097	227072	-14.34
Scandium	311197	251503	-19.18
Germanium	72358	56798	-21.50
Indium	387021	333865	-13.73
Bismuth	340664	353301	3.71

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56129329065 File : c3019065
Cal : 56129329001 Caldate: 30-MAR-2006
Standards: S2897, 05WS0207

IDF : 1.0
Time : 31-MAR-2006 01:27

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.2398	0.3936	150.0	154.8	ug/L	3	10	
Antimony	0.2762	0.2554	150.0	147.1	ug/L	-2	10	
Arsenic	0.4472	0.3957	150.0	142.1	ug/L	-5	10	
Barium	0.0940	0.0909	150.0	155.4	ug/L	4	10	
Beryllium	0.1611	0.1426	150.0	140.1	ug/L	-7	10	
Cadmium	0.3761	0.3251	150.0	159.2	ug/L	6	10	
Calcium	0.0232	0.0168	15000	14910	ug/L	-1	10	
Chromium	3.2428	2.3268	150.0	146.7	ug/L	-2	10	
Cobalt	2.7545	2.4606	150.0	148.6	ug/L	-1	10	
Copper	0.7136	0.6158	150.0	147.1	ug/L	-2	10	
Iron	0.0961	0.0665	15000	14720	ug/L	-2	10	
Lead	0.8191	0.7810	150.0	149.2	ug/L	-1	10	
Magnesium	0.0510	0.0528	15000	16070	ug/L	7	10	
Manganese	4.3908	2.9757	150.0	138.0	ug/L	-8	10	
Molybdenum	0.6531	0.6059	150.0	151.5	ug/L	1	10	
Nickel	0.7842	0.5452	150.0	147.7	ug/L	-2	10	
Potassium	1.2113	0.5275	15000	14950	ug/L	0	10	
Selenium	0.0389	0.0213	150.0	145.9	ug/L	-3	10	
Silver	1.3901	1.3170	150.0	153.4	ug/L	2	10	
Sodium	0.5992	0.5241	15000	16440	ug/L	10	10	
Thallium	0.5615	0.5437	150.0	144.8	ug/L	-3	10	
Vanadium	3.1015	2.8155	150.0	152.3	ug/L	2	10	
Zinc	0.7563	0.3695	150.0	141.2	ug/L	-6	10	

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Lithium	265097	218271	-17.66
Scandium	311197	237079	-23.82
Germanium	72358	54949	-24.06
Indium	387021	318437	-17.72
Bismuth	340664	336009	-1.37

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56129329075 File : c3019075
Cal : 56129329001 Caldate: 30-MAR-2006
Standards: S2897, 05WS0207

IDF : 1.0
Time : 31-MAR-2006 02:23

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.2398	0.3975	150.0	156.4	ug/L	4	10	
Antimony	0.2762	0.2507	150.0	144.4	ug/L	-4	10	
Arsenic	0.4472	0.3956	150.0	142.0	ug/L	-5	10	
Barium	0.0940	0.0913	150.0	156.0	ug/L	4	10	
Beryllium	0.1611	0.1397	150.0	137.3	ug/L	-8	10	
Cadmium	0.3761	0.3285	150.0	160.8	ug/L	7	10	
Calcium	0.0232	0.0168	15000	14900	ug/L	-1	10	
Chromium	3.2428	2.3330	150.0	147.1	ug/L	-2	10	
Cobalt	2.7545	2.4739	150.0	149.4	ug/L	0	10	
Copper	0.7136	0.6175	150.0	147.5	ug/L	-2	10	
Iron	0.0961	0.0666	15000	14750	ug/L	-2	10	
Lead	0.8191	0.8131	150.0	155.3	ug/L	4	10	
Magnesium	0.0510	0.0532	15000	16200	ug/L	8	10	
Manganese	4.3908	2.9676	150.0	137.6	ug/L	-8	10	
Molybdenum	0.6531	0.6110	150.0	152.8	ug/L	2	10	
Nickel	0.7842	0.5452	150.0	147.7	ug/L	-2	10	
Potassium	1.2113	0.5284	15000	14970	ug/L	0	10	
Selenium	0.0389	0.0217	150.0	148.6	ug/L	-1	10	
Silver	1.3901	1.2943	150.0	150.8	ug/L	1	10	
Sodium	0.5992	0.5292	15000	16600	ug/L	**11**	10	c+ ***
Thallium	0.5615	0.5598	150.0	149.1	ug/L	-1	10	
Vanadium	3.1015	2.7565	150.0	149.1	ug/L	-1	10	
Zinc	0.7563	0.3741	150.0	143.0	ug/L	-5	10	

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Lithium	265097	206423	-22.13
Scandium	311197	221000	-28.98
Germanium	72358	51499	-28.83
Indium	387021	303242	-21.65
Bismuth	340664	310638	-8.81

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56129329087 File : c3019087
Cal : 56129329001 Caldate: 30-MAR-2006
Standards: S2897, 05WS0207

IDF : 1.0
Time : 31-MAR-2006 03:31

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.2398	0.3951	150.0	155.5	ug/L	4	10	
Antimony	0.2762	0.2498	150.0	143.8	ug/L	-4	10	
Arsenic	0.4472	0.3952	150.0	141.9	ug/L	-5	10	
Barium	0.0940	0.0906	150.0	154.8	ug/L	3	10	
Beryllium	0.1611	0.1403	150.0	137.9	ug/L	-8	10	
Cadmium	0.3761	0.3299	150.0	161.5	ug/L	8	10	
Calcium	0.0232	0.0166	15000	14660	ug/L	-2	10	
Chromium	3.2428	2.3295	150.0	146.9	ug/L	-2	10	
Cobalt	2.7545	2.4603	150.0	148.5	ug/L	-1	10	
Copper	0.7136	0.6198	150.0	148.0	ug/L	-1	10	
Iron	0.0961	0.0667	15000	14780	ug/L	-1	10	
Lead	0.8191	0.7762	150.0	148.2	ug/L	-1	10	
Magnesium	0.0510	0.0526	15000	16020	ug/L	7	10	
Manganese	4.3908	3.0010	150.0	139.1	ug/L	-7	10	
Molybdenum	0.6531	0.6195	150.0	154.9	ug/L	3	10	
Nickel	0.7842	0.5445	150.0	147.6	ug/L	-2	10	
Potassium	1.2113	0.5231	15000	14820	ug/L	-1	10	
Selenium	0.0389	0.0215	150.0	147.0	ug/L	-2	10	
Silver	1.3901	1.2974	150.0	151.1	ug/L	1	10	
Sodium	0.5992	0.5219	15000	16370	ug/L	9	10	
Thallium	0.5615	0.5369	150.0	143.0	ug/L	-5	10	
Vanadium	3.1015	2.7471	150.0	148.6	ug/L	-1	10	
Zinc	0.7563	0.3704	150.0	141.5	ug/L	-6	10	

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Lithium	265097	194934	-26.47
Scandium	311197	212512	-31.71
Germanium	72358	49120	-32.12
Indium	387021	289983	-25.07
Bismuth	340664	309187	-9.24

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56129329104 File : c3019104
Cal : 56129329001 Caldate: 30-MAR-2006
Standards: S2897, 05WS0207

IDF : 1.0
Time : 31-MAR-2006 05:07

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.2398	0.4005	150.0	157.6	ug/L	5	10	
Antimony	0.2762	0.2490	150.0	143.4	ug/L	-4	10	
Arsenic	0.4472	0.3889	150.0	139.6	ug/L	-7	10	
Barium	0.0940	0.0901	150.0	154.0	ug/L	3	10	
Beryllium	0.1611	0.1383	150.0	136.0	ug/L	-9	10	
Cadmium	0.3761	0.3278	150.0	160.5	ug/L	7	10	
Calcium	0.0232	0.0169	15000	14970	ug/L	0	10	
Chromium	3.2428	2.3186	150.0	146.2	ug/L	-3	10	
Cobalt	2.7545	2.4351	150.0	147.0	ug/L	-2	10	
Copper	0.7136	0.6163	150.0	147.2	ug/L	-2	10	
Iron	0.0961	0.0668	15000	14800	ug/L	-1	10	
Lead	0.8191	0.8137	150.0	155.4	ug/L	4	10	
Magnesium	0.0510	0.0539	15000	16400	ug/L	9	10	
Manganese	4.3908	2.9957	150.0	138.9	ug/L	-7	10	
Molybdenum	0.6531	0.6060	150.0	151.5	ug/L	1	10	
Nickel	0.7842	0.5378	150.0	145.7	ug/L	-3	10	
Potassium	1.2113	0.5297	15000	15010	ug/L	0	10	
Selenium	0.0389	0.0212	150.0	145.2	ug/L	-3	10	
Silver	1.3901	1.3066	150.0	152.2	ug/L	1	10	
Sodium	0.5992	0.5369	15000	16840	ug/L	**12**	10	c+ ***
Thallium	0.5615	0.5606	150.0	149.3	ug/L	0	10	
Vanadium	3.1015	2.7766	150.0	150.2	ug/L	0	10	
Zinc	0.7563	0.3652	150.0	139.5	ug/L	-7	10	

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Lithium	265097	198899	-24.97
Scandium	311197	208736	-32.92
Germanium	72358	48575	-32.87
Indium	387021	282725	-26.95
Bismuth	340664	287960	-15.47

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56129329118 File : c3019118
Cal : 56129329001 Caldate: 30-MAR-2006
Standards: S2897, 05WS0207

IDF : 1.0
Time : 31-MAR-2006 06:26

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.2398	0.4002	150.0	157.5	ug/L	5	10	
Antimony	0.2762	0.2462	150.0	141.8	ug/L	-5	10	
Arsenic	0.4472	0.3803	150.0	136.6	ug/L	-9	10	
Barium	0.0940	0.0900	150.0	153.9	ug/L	3	10	
Beryllium	0.1611	0.1355	150.0	133.2	ug/L	**-11**	10	c- ***
Cadmium	0.3761	0.3141	150.0	153.8	ug/L	3	10	
Calcium	0.0232	0.0167	15000	14760	ug/L	-2	10	
Chromium	3.2428	2.3114	150.0	145.7	ug/L	-3	10	
Cobalt	2.7545	2.4609	150.0	148.6	ug/L	-1	10	
Copper	0.7136	0.6150	150.0	146.9	ug/L	-2	10	
Iron	0.0961	0.0626	15000	13860	ug/L	-8	10	
Lead	0.8191	0.8075	150.0	154.2	ug/L	3	10	
Magnesium	0.0510	0.0538	15000	16370	ug/L	9	10	
Manganese	4.3908	2.9772	150.0	138.0	ug/L	-8	10	
Molybdenum	0.6531	0.6045	150.0	151.1	ug/L	1	10	
Nickel	0.7842	0.5433	150.0	147.2	ug/L	-2	10	
Potassium	1.2113	0.5303	15000	15030	ug/L	0	10	
Selenium	0.0389	0.0210	150.0	143.7	ug/L	-4	10	
Silver	1.3901	1.2999	150.0	151.4	ug/L	1	10	
Sodium	0.5992	0.5359	15000	16810	ug/L	**12**	10	c+ ***
Thallium	0.5615	0.5598	150.0	149.1	ug/L	-1	10	
Vanadium	3.1015	2.8069	150.0	151.8	ug/L	1	10	
Zinc	0.7563	0.3626	150.0	138.5	ug/L	-8	10	

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Lithium	265097	187327	-29.34
Scandium	311197	194928	-37.36
Germanium	72358	45232	-37.49
Indium	387021	261888	-32.33
Bismuth	340664	268248	-21.26

+=high bias -=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56129329132 File : c3019132
Cal : 56129329001 Caldate: 30-MAR-2006
Standards: S2897, 05WS0207

IDF : 1.0
Time : 31-MAR-2006 07:45

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.2398	0.4003	150.0	157.6	ug/L	5	10	
Antimony	0.2762	0.2529	150.0	145.6	ug/L	-3	10	
Arsenic	0.4472	0.3939	150.0	141.5	ug/L	-6	10	
Barium	0.0940	0.0906	150.0	154.8	ug/L	3	10	
Beryllium	0.1611	0.1413	150.0	138.9	ug/L	-7	10	
Cadmium	0.3761	0.3238	150.0	158.5	ug/L	6	10	
Calcium	0.0232	0.0167	15000	14750	ug/L	-2	10	
Chromium	3.2428	2.2766	150.0	143.5	ug/L	-4	10	
Cobalt	2.7545	2.3852	150.0	144.0	ug/L	-4	10	
Copper	0.7136	0.5958	150.0	142.3	ug/L	-5	10	
Iron	0.0961	0.0631	15000	13970	ug/L	-7	10	
Lead	0.8191	0.8044	150.0	153.6	ug/L	2	10	
Magnesium	0.0510	0.0532	15000	16170	ug/L	8	10	
Manganese	4.3908	2.9414	150.0	136.4	ug/L	-9	10	
Molybdenum	0.6531	0.5996	150.0	149.9	ug/L	0	10	
Nickel	0.7842	0.5313	150.0	144.0	ug/L	-4	10	
Potassium	1.2113	0.5252	15000	14880	ug/L	-1	10	
Selenium	0.0389	0.0213	150.0	145.7	ug/L	-3	10	
Silver	1.3901	1.2948	150.0	150.8	ug/L	1	10	
Sodium	0.5992	0.5261	15000	16500	ug/L	10	10	
Thallium	0.5615	0.5374	150.0	143.1	ug/L	-5	10	
Vanadium	3.1015	2.7824	150.0	150.5	ug/L	0	10	
Zinc	0.7563	0.3649	150.0	139.4	ug/L	-7	10	

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Lithium	265097	197276	-25.58
Scandium	311197	212389	-31.75
Germanium	72358	49856	-31.10
Indium	387021	289714	-25.14
Bismuth	340664	311140	-8.67

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56129329143 File : c3019143
Cal : 56129329001 Caldate: 30-MAR-2006
Standards: S2897, 05WS0207

IDF : 1.0
Time : 31-MAR-2006 08:48

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.2398	0.3964	150.0	156.0	ug/L	4	10	
Antimony	0.2762	0.2553	150.0	147.0	ug/L	-2	10	
Arsenic	0.4472	0.3989	150.0	143.2	ug/L	-5	10	
Barium	0.0940	0.0909	150.0	155.4	ug/L	4	10	
Beryllium	0.1611	0.1453	150.0	142.8	ug/L	-5	10	
Cadmium	0.3761	0.3243	150.0	158.8	ug/L	6	10	
Calcium	0.0232	0.0169	15000	14990	ug/L	0	10	
Chromium	3.2428	2.2904	150.0	144.4	ug/L	-4	10	
Cobalt	2.7545	2.4052	150.0	145.2	ug/L	-3	10	
Copper	0.7136	0.6036	150.0	144.2	ug/L	-4	10	
Iron	0.0961	0.0656	15000	14530	ug/L	-3	10	
Lead	0.8191	0.8052	150.0	153.8	ug/L	3	10	
Magnesium	0.0510	0.0529	15000	16080	ug/L	7	10	
Manganese	4.3908	2.9452	150.0	136.6	ug/L	-9	10	
Molybdenum	0.6531	0.5948	150.0	148.7	ug/L	-1	10	
Nickel	0.7842	0.5288	150.0	143.3	ug/L	-4	10	
Potassium	1.2113	0.5314	15000	15060	ug/L	0	10	
Selenium	0.0389	0.0213	150.0	145.7	ug/L	-3	10	
Silver	1.3901	1.2972	150.0	151.1	ug/L	1	10	
Sodium	0.5992	0.5223	15000	16380	ug/L	9	10	
Thallium	0.5615	0.5403	150.0	143.9	ug/L	-4	10	
Vanadium	3.1015	2.8057	150.0	151.8	ug/L	1	10	
Zinc	0.7563	0.3686	150.0	140.8	ug/L	-6	10	

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Lithium	265097	202034	-23.79
Scandium	311197	221097	-28.95
Germanium	72358	51709	-28.54
Indium	387021	295518	-23.64
Bismuth	340664	315804	-7.30

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56129329152 File : c3019152
Cal : 56129329001 Caldate: 30-MAR-2006
Standards: S2897, 05WS0207

IDF : 1.0
Time : 31-MAR-2006 09:48

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.2398	0.3901	150.0	153.4	ug/L	2	10	
Antimony	0.2762	0.2583	150.0	148.7	ug/L	-1	10	
Arsenic	0.4472	0.3991	150.0	143.3	ug/L	-4	10	
Barium	0.0940	0.0888	150.0	151.8	ug/L	1	10	
Beryllium	0.1611	0.1518	150.0	149.3	ug/L	0	10	
Cadmium	0.3761	0.2938	150.0	143.8	ug/L	-4	10	
Calcium	0.0232	0.0169	15000	14960	ug/L	0	10	
Chromium	3.2428	2.2391	150.0	141.1	ug/L	-6	10	
Cobalt	2.7545	2.3408	150.0	141.3	ug/L	-6	10	
Copper	0.7136	0.5895	150.0	140.8	ug/L	-6	10	
Iron	0.0961	0.0645	15000	14280	ug/L	-5	10	
Lead	0.8191	0.8158	150.0	155.8	ug/L	4	10	
Magnesium	0.0510	0.0520	15000	15820	ug/L	5	10	
Manganese	4.3908	2.8717	150.0	133.1	ug/L	-11	10	c- ***
Molybdenum	0.6531	0.5647	150.0	141.2	ug/L	-6	10	
Nickel	0.7842	0.5174	150.0	140.2	ug/L	-7	10	
Potassium	1.2113	0.5377	15000	15240	ug/L	2	10	
Selenium	0.0389	0.0207	150.0	141.4	ug/L	-6	10	
Silver	1.3901	1.1896	150.0	138.5	ug/L	-8	10	
Sodium	0.5992	0.5080	15000	15930	ug/L	6	10	
Thallium	0.5615	0.5542	150.0	147.6	ug/L	-2	10	
Vanadium	3.1015	2.7081	150.0	146.5	ug/L	-2	10	
Zinc	0.7563	0.3639	150.0	139.0	ug/L	-7	10	

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Lithium	265097	191473	-27.77
Scandium	311197	223424	-28.20
Germanium	72358	53138	-26.56
Indium	387021	274114	-29.17
Bismuth	340664	266072	-21.90

-=low bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56129329011 File : c3019011
Cal : 56129329001 Caldate: 30-MAR-2006

IDF : 1.0
Time : 30-MAR-2006 20:25

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.09692]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	[0.04627]	0.2500	0.04566	ug/L	!ib
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.01817]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.03258]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.01900]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.4546]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Lithium	265097	265406	0.12
Scandium	311197	315614	1.42
Germanium	72358	72201	-0.22
Indium	387021	391894	1.26
Bismuth	340664	347289	1.94

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56129329026
Cal : 56129329001

File : c3019026
Caldate: 30-MAR-2006

IDF : 1.0
Time : 30-MAR-2006 21:49

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.04617]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1657]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Lithium	265097	268960	1.46
Scandium	311197	310314	-0.28
Germanium	72358	70044	-3.20
Indium	387021	392056	1.30
Bismuth	340664	372888	9.46

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56129329036 File : c3019036
Cal : 56129329001 Caldate: 30-MAR-2006

IDF : 1.0
Time : 30-MAR-2006 22:45

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	[0.1383]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.1908]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.4548]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.04320]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	[0.6973]	1.000	0.09577	ug/L	!ib

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Lithium	265097	254666	-3.93
Scandium	311197	287393	-7.65
Germanium	72358	64472	-10.90
Indium	387021	372456	-3.76
Bismuth	340664	371368	9.01

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56129329050
Cal : 56129329001

File : c3019050
Caldate: 30-MAR-2006

IDF : 1.0
Time : 31-MAR-2006 00:03

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.08182]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1281]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	[0.06112]	0.2500	0.04566	ug/L	!ib
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	[0.06188]	0.5000	0.04426	ug/L	!ib
Iron	ND	50.00	6.980	ug/L	
Lead	[0.009133]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.2086]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	0.6611	0.5000	0.1891	ug/L	ib ***
Silver	[0.01554]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2575]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Lithium	265097	237479	-10.42
Scandium	311197	256726	-17.50
Germanium	72358	57435	-20.62
Indium	387021	353212	-8.74
Bismuth	340664	372094	9.23

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56129329067
Cal : 56129329001

File : c3019067
Caldate: 30-MAR-2006

IDF : 1.0
Time : 31-MAR-2006 01:39

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	[0.2198]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.01855]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	0.5840	0.5000	0.1891	ug/L	ib ***
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1188]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Lithium	265097	217217	-18.06
Scandium	311197	230500	-25.93
Germanium	72358	52231	-27.82
Indium	387021	320087	-17.29
Bismuth	340664	332083	-2.52

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56129329077
Cal : 56129329001

File : c3019077
Caldate: 30-MAR-2006

IDF : 1.0
Time : 31-MAR-2006 02:35

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	[0.1454]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	0.5566	0.5000	0.1891	ug/L	ib ***
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.02849]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Lithium	265097	208026	-21.53
Scandium	311197	218129	-29.91
Germanium	72358	49856	-31.10
Indium	387021	306988	-20.68
Bismuth	340664	314777	-7.60

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56129329089 File : c3019089
Cal : 56129329001 Caldate: 30-MAR-2006

IDF : 1.0
Time : 31-MAR-2006 03:42

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	[0.1246]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	0.6994	0.5000	0.1891	ug/L	ib ***
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	[0.1276]	1.000	0.08283	ug/L	!ib
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Lithium	265097	208994	-21.16
Scandium	311197	215848	-30.64
Germanium	72358	49562	-31.50
Indium	387021	302817	-21.76
Bismuth	340664	307384	-9.77

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56129329106
Cal : 56129329001

File : c3019106
Caldate: 30-MAR-2006

IDF : 1.0
Time : 31-MAR-2006 05:18

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1883]	0.5000	0.02100	ug/L	!ib
Vanadium	[0.1067]	1.000	0.08283	ug/L	!ib
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Lithium	265097	203301	-23.31
Scandium	311197	210384	-32.40
Germanium	72358	47860	-33.86
Indium	387021	293282	-24.22
Bismuth	340664	299803	-11.99

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56129329120
Cal : 56129329001

File : c3019120
Caldate: 30-MAR-2006

IDF : 1.0
Time : 31-MAR-2006 06:37

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	[0.1780]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	[0.1131]	0.2500	0.04566	ug/L	!ib
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	0.9531	0.5000	0.1891	ug/L	ib ***
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.05567]	0.5000	0.02100	ug/L	!ib
Vanadium	[0.08296]	1.000	0.08283	ug/L	!ib
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Lithium	265097	194484	-26.64
Scandium	311197	198118	-36.34
Germanium	72358	45098	-37.67
Indium	387021	274760	-29.01
Bismuth	340664	286703	-15.84

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56129329134
Cal : 56129329001

File : c3019134
Caldate: 30-MAR-2006

IDF : 1.0
Time : 31-MAR-2006 07:57

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	[0.2559]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	[0.07256]	0.2500	0.04566	ug/L	!ib
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	0.3133	0.2500	0.01838	ug/L	ib ***
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	1.249	0.5000	0.1891	ug/L	ib ***
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.04373]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Lithium	265097	202931	-23.45
Scandium	311197	215460	-30.76
Germanium	72358	49367	-31.77
Indium	387021	301257	-22.16
Bismuth	340664	320368	-5.96

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56129329145
Cal : 56129329001

File : c3019145
Caldate: 30-MAR-2006

IDF : 1.0
Time : 31-MAR-2006 08:59

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.1994]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	0.6485	0.5000	0.1891	ug/L	ib ***
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.05024]	0.5000	0.02100	ug/L	!ib
Vanadium	[0.1097]	1.000	0.08283	ug/L	!ib
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Lithium	265097	208591	-21.32
Scandium	311197	222238	-28.59
Germanium	72358	51179	-29.27
Indium	387021	306164	-20.89
Bismuth	340664	329741	-3.21

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56129329154
Cal : 56129329001

File : c3019154
Caldate: 30-MAR-2006

IDF : 1.0
Time : 31-MAR-2006 10:00

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.04423]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	[0.05796]	0.2500	0.04566	ug/L	!ib
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.1940]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	[8.291]	50.00	6.379	ug/L	!ib
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.04053]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Lithium	265097	198930	-24.96
Scandium	311197	223816	-28.08
Germanium	72358	52216	-27.84
Indium	387021	280375	-27.56
Bismuth	340664	272181	-20.10

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05
Seqnum : 56129329012 File : c3019012
Cal : 56129329001 Caldate: 30-MAR-2006
Standards: S2893, 05WS0207

IDF : 1.0
Time : 30-MAR-2006 20:31

Analyte	Quant	RL	Units	Flags
Antimony	2.373	0.2500	ug/L	
Arsenic	0.8645	0.5000	ug/L	
Barium	0.9514	0.2500	ug/L	
Beryllium	[0.02391]	0.2500	ug/L	
Cadmium	[0.06521]	0.2500	ug/L	
Chromium	1.349	0.5000	ug/L	
Cobalt	2.719	0.2500	ug/L	
Copper	1.553	0.5000	ug/L	
Lead	1.175	0.2500	ug/L	
Manganese	0.9137	0.2500	ug/L	
Nickel	1.317	0.2500	ug/L	
Selenium	[0.09829]	0.5000	ug/L	
Silver	[0.1412]	0.2500	ug/L	
Thallium	[0.1843]	0.5000	ug/L	
Vanadium	[0.2402]	1.000	ug/L	
Zinc	2.860	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	102300	ug/L	102
Calcium	300000	293500	ug/L	98
Iron	250000	232700	ug/L	93
Magnesium	100000	95360	ug/L	95
Molybdenum	2000	2078	ug/L	104
Potassium	100000	97840	ug/L	98
Sodium	250000	227900	ug/L	91

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Lithium	265097	215473	-18.72
Scandium	311197	281228	-9.63
Germanium	72358	66722	-7.79
Indium	387021	334712	-13.52
Bismuth	340664	293927	-13.72

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05
Seqnum : 56129329013 File : c3019013
Cal : 56129329001 Caldate: 30-MAR-2006
Standards: S2894, 05WS0207

IDF : 1.0
Time : 30-MAR-2006 20:36

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	100100	ug/L	0		
Arsenic	100.0	108.0	ug/L	8	20	
Cadmium	100.0	102.2	ug/L	2	20	
Calcium	300000	300400	ug/L	0		
Chromium	200.0	200.5	ug/L	0	20	
Cobalt	200.0	200.2	ug/L	0	20	
Copper	200.0	197.6	ug/L	-1	20	
Iron	250000	238300	ug/L	-5		
Magnesium	100000	92640	ug/L	-7		
Manganese	200.0	193.6	ug/L	-3	20	
Molybdenum	2000	2114	ug/L	6		
Nickel	200.0	194.5	ug/L	-3	20	
Potassium	100000	99340	ug/L	-1		
Selenium	100.0	106.0	ug/L	6	20	
Silver	50.00	56.43	ug/L	13	20	
Sodium	250000	226700	ug/L	-9		
Vanadium	200.0	202.8	ug/L	1	20	
Zinc	100.0	102.5	ug/L	3	20	

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Scandium	311197	279860	-10.07
Germanium	72358	65913	-8.91

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05
Seqnum : 56129329037 File : c3019037
Cal : 56129329001 Caldate: 30-MAR-2006
Standards: S2893, 05WS0207

IDF : 1.0
Time : 30-MAR-2006 22:51

Analyte	Quant	RL	Units	Flags
Antimony	2.267	0.2500	ug/L	
Arsenic	0.7292	0.5000	ug/L	
Barium	1.004	0.2500	ug/L	
Beryllium	[0.01532]	0.2500	ug/L	
Cadmium	[0.1699]	0.2500	ug/L	
Chromium	1.387	0.5000	ug/L	
Cobalt	2.845	0.2500	ug/L	
Copper	1.752	0.5000	ug/L	
Lead	1.167	0.2500	ug/L	
Manganese	0.9972	0.2500	ug/L	
Nickel	1.358	0.2500	ug/L	
Selenium	[0.3781]	0.5000	ug/L	
Silver	[0.1466]	0.2500	ug/L	
Thallium	[0.06134]	0.5000	ug/L	
Vanadium	[0.2309]	1.000	ug/L	
Zinc	3.084	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	109600	ug/L	110
Calcium	300000	293100	ug/L	98
Iron	250000	236600	ug/L	95
Magnesium	100000	101800	ug/L	102
Molybdenum	2000	2114	ug/L	106
Potassium	100000	98710	ug/L	99
Sodium	250000	257700	ug/L	103

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Lithium	265097	216717	-18.25
Scandium	311197	260167	-16.40
Germanium	72358	59403	-17.90
Indium	387021	317414	-17.99
Bismuth	340664	315944	-7.26

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05
Seqnum : 56129329038 File : c3019038
Cal : 56129329001 Caldate: 30-MAR-2006
Standards: S2894, 05WS0207

IDF : 1.0
Time : 30-MAR-2006 22:56

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	110400	ug/L	10		
Arsenic	100.0	107.7	ug/L	8	20	
Cadmium	100.0	107.6	ug/L	8	20	
Calcium	300000	298400	ug/L	-1		
Chromium	200.0	208.6	ug/L	4	20	
Cobalt	200.0	207.4	ug/L	4	20	
Copper	200.0	200.5	ug/L	0	20	
Iron	250000	243400	ug/L	-3		
Magnesium	100000	102800	ug/L	3		
Manganese	200.0	195.1	ug/L	-2	20	
Molybdenum	2000	2184	ug/L	9		
Nickel	200.0	202.3	ug/L	1	20	
Potassium	100000	99530	ug/L	0		
Selenium	100.0	106.3	ug/L	6	20	
Silver	50.00	58.54	ug/L	17	20	
Sodium	250000	261000	ug/L	4		
Vanadium	200.0	211.0	ug/L	6	20	
Zinc	100.0	102.6	ug/L	3	20	

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Scandium	311197	257403	-17.29
Germanium	72358	57975	-19.88

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05
Seqnum : 56129329090 File : c3019090
Cal : 56129329001 Caldate: 30-MAR-2006
Standards: S2893, 05WS0207

IDF : 1.0
Time : 31-MAR-2006 03:48

Analyte	Quant	RL	Units	Flags
Antimony	2.198	0.2500	ug/L	
Arsenic	0.6415	0.5000	ug/L	
Barium	0.9197	0.2500	ug/L	
Beryllium	[0.005132]	0.2500	ug/L	
Cadmium	[0.1058]	0.2500	ug/L	
Chromium	1.315	0.5000	ug/L	
Cobalt	2.700	0.2500	ug/L	
Copper	1.682	0.5000	ug/L	
Lead	1.167	0.2500	ug/L	
Manganese	0.9245	0.2500	ug/L	
Nickel	1.270	0.2500	ug/L	
Selenium	0.5990	0.5000	ug/L	
Silver	[0.1230]	0.2500	ug/L	
Thallium	[0.03987]	0.5000	ug/L	
Vanadium	[0.2115]	1.000	ug/L	
Zinc	2.813	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	110800	ug/L	111
Calcium	300000	290900	ug/L	97
Iron	250000	231000	ug/L	92
Magnesium	100000	102900	ug/L	103
Molybdenum	2000	2141	ug/L	107
Potassium	100000	98150	ug/L	98
Sodium	250000	265100	ug/L	106

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Lithium	265097	184428	-30.43
Scandium	311197	204218	-34.38
Germanium	72358	47881	-33.83
Indium	387021	265316	-31.45
Bismuth	340664	262244	-23.02

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56129329091 File : c3019091 Time : 31-MAR-2006 03:53
Cal : 56129329001 Caldate: 30-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	114300	ug/L	14		
Arsenic	100.0	102.2	ug/L	2	20	
Cadmium	100.0	108.0	ug/L	8	20	
Calcium	300000	300000	ug/L	0		
Chromium	200.0	204.3	ug/L	2	20	
Cobalt	200.0	203.7	ug/L	2	20	
Copper	200.0	193.6	ug/L	-3	20	
Iron	250000	238000	ug/L	-5		
Magnesium	100000	105900	ug/L	6		
Manganese	200.0	191.7	ug/L	-4	20	
Molybdenum	2000	2240	ug/L	12		
Nickel	200.0	197.0	ug/L	-2	20	
Potassium	100000	101100	ug/L	1		
Selenium	100.0	106.0	ug/L	6	20	
Silver	50.00	58.84	ug/L	18	20	
Sodium	250000	270800	ug/L	8		
Vanadium	200.0	206.0	ug/L	3	20	
Zinc	100.0	96.82	ug/L	-3	20	

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Scandium	311197	203303	-34.67
Germanium	72358	47343	-34.57

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05
Seqnum : 56129329155 File : c3019155
Cal : 56129329001 Caldate: 30-MAR-2006
Standards: S2893, 05WS0207

IDF : 1.0
Time : 31-MAR-2006 10:05

Analyte	Quant	RL	Units	Flags
Antimony	2.411	0.2500	ug/L	
Arsenic	1.070	0.5000	ug/L	
Barium	0.9093	0.2500	ug/L	
Beryllium	[0.02266]	0.2500	ug/L	
Cadmium	[0.08454]	0.2500	ug/L	
Chromium	1.347	0.5000	ug/L	
Cobalt	2.641	0.2500	ug/L	
Copper	1.547	0.5000	ug/L	
Lead	1.234	0.2500	ug/L	
Manganese	0.9937	0.2500	ug/L	
Nickel	1.219	0.2500	ug/L	
Selenium	0.7665	0.5000	ug/L	
Silver	[0.1432]	0.2500	ug/L	
Thallium	[0.05732]	0.5000	ug/L	
Vanadium	[0.3663]	1.000	ug/L	
Zinc	2.636	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	103900	ug/L	104
Calcium	300000	293300	ug/L	98
Iron	250000	226100	ug/L	90
Magnesium	100000	97240	ug/L	97
Molybdenum	2000	2000	ug/L	100
Potassium	100000	98630	ug/L	99
Sodium	250000	242900	ug/L	97

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Lithium	265097	154550	-41.70
Scandium	311197	197072	-36.67
Germanium	72358	47394	-34.50
Indium	387021	229919	-40.59
Bismuth	340664	210658	-38.16

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56129329156 File : c3019156 Time : 31-MAR-2006 10:11
Cal : 56129329001 Caldate: 30-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	104300	ug/L	4		
Arsenic	100.0	108.3	ug/L	8	20	
Cadmium	100.0	96.50	ug/L	-4	20	
Calcium	300000	300900	ug/L	0		
Chromium	200.0	194.9	ug/L	-3	20	
Cobalt	200.0	194.7	ug/L	-3	20	
Copper	200.0	190.3	ug/L	-5	20	
Iron	250000	233600	ug/L	-7		
Magnesium	100000	96660	ug/L	-3		
Manganese	200.0	185.9	ug/L	-7	20	
Molybdenum	2000	2053	ug/L	3		
Nickel	200.0	188.6	ug/L	-6	20	
Potassium	100000	101700	ug/L	2		
Selenium	100.0	104.0	ug/L	4	20	
Silver	50.00	52.97	ug/L	6	20	
Sodium	250000	237300	ug/L	-5		
Vanadium	200.0	200.3	ug/L	0	20	
Zinc	100.0	100.2	ug/L	0	20	

ISTD (ICALBLK c3019003)	ICALBLK Abund	Abund	%Drift
Scandium	311197	193826	-37.72
Germanium	72358	46666	-35.51

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56129329 Instrument: MET05 Agilent ICP-MS Begun: 30-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
038	c3019038	ICSAB				30-MAR-2006 22:56	1.0	1.0			1	11 2	12:CA=298400
040	c3019040	SAMPLE	185586-001	111436	Filtra	30-MAR-2006 23:07	1.0	1.0	4		1	2	4:NA=186300
041	c3019041	SAMPLE	185586-002	111436	Filtra	30-MAR-2006 23:13	1.0	1.0	4		1	2	4:CA=120700
042	c3019042	SAMPLE	185586-003	111436	Filtra	30-MAR-2006 23:19	1.0	1.0	4		1	2	4:CA=122000
043	c3019043	SAMPLE	185586-018	111436	Filtra	30-MAR-2006 23:24	1.0	1.0	3		1	2	3:NA=100700
044	c3019044	SAMPLE	185586-019	111436	Filtra	30-MAR-2006 23:30	1.0	1.0	5		1	2	5:NA=62830.0
045	c3019045	SAMPLE	185586-020	111436	Filtra	30-MAR-2006 23:35	1.0	1.0	5		1	2	5:NA=153400
046	c3019046	SAMPLE	185586-021	111436	Filtra	30-MAR-2006 23:41	1.0	1.0	4		1	2	4:CA=51050.0
047	c3019047	SAMPLE	185586-022	111436	Filtra	30-MAR-2006 23:47	1.0	1.0	3		1	2	3:NA=56850.0
049	c3019049	CCV				30-MAR-2006 23:58	1.0	1.0			1	13 2	
050	c3019050	CCB				31-MAR-2006 00:03	1.0	1.0	1		1	2	
054	c3019054	BLANK	QC332048	111435	Water	31-MAR-2006 00:26	1.0	1.0			1	2	
055	c3019055	BS	QC332049	111435	Water	31-MAR-2006 00:32	1.0	1.0		1	1	2	
056	c3019056	BSD	QC332050	111435	Water	31-MAR-2006 00:37	1.0	1.0		1	1	2	
057	c3019057	MSS	185438-001	111435	Water	31-MAR-2006 00:43	1.0	1.0	2		1	2	1:NA=24380.0
059	c3019059	MS	QC332051	111435	Water	31-MAR-2006 00:54	1.0	1.0	2	1	1	2	3:NA=36280.0
060	c3019060	MSD	QC332052	111435	Water	31-MAR-2006 00:59	1.0	1.0	2	1	1	2	3:NA=34850.0
061	c3019061	PDS	QC332054	111435	Water	31-MAR-2006 01:05	1.0	1.0	2		1	12 2	3:NA=35200.0
062	c3019062	SAMPLE	185438-002	111435	Water	31-MAR-2006 01:11	1.0	1.0			1	2	1:NA=21070.0
063	c3019063	SAMPLE	185438-003	111435	Water	31-MAR-2006 01:16	1.0	1.0			1	2	2:NA=33550.0
065	c3019065	CCV				31-MAR-2006 01:27	1.0	1.0			1	13 2	
067	c3019067	CCB				31-MAR-2006 01:39	1.0	1.0	1		1	2	
068	c3019068	SAMPLE	185438-004	111435	Water	31-MAR-2006 01:44	1.0	1.0			1	2	
069	c3019069	SAMPLE	185438-005	111435	Water	31-MAR-2006 01:50	1.0	1.0	1		1	2	1:NA=44530.0
070	c3019070	SAMPLE	185438-006	111435	Water	31-MAR-2006 01:56	1.0	1.0	1		1	2	1:NA=21970.0
071	c3019071	SAMPLE	185438-007	111435	Water	31-MAR-2006 02:01	1.0	1.0	1		1	2	1:NA=20080.0
072	c3019072	SAMPLE	185438-008	111435	Water	31-MAR-2006 02:07	1.0	1.0	4		1	2	4:CA=30290.0
073	c3019073	SAMPLE	185438-009	111435	Water	31-MAR-2006 02:12	1.0	1.0			1	2	
075	c3019075	CCV				31-MAR-2006 02:23	1.0	1.0	1		1	13 2	
077	c3019077	CCB				31-MAR-2006 02:35	1.0	1.0	1		1	2	
078	c3019078	SAMPLE	185438-010	111435	Water	31-MAR-2006 02:40	1.0	1.0			1	2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2309 13=S2897

Analyst: [illegible] Date: 3/30/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56129329 Instrument: MET05 Agilent ICP-MS Begun: 30-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	c3019001	TUN				30-MAR-2006 19:29	1.0	1.0				1	
003	c3019003	ICALBLK	std-blk			30-MAR-2006 19:40	1.0	1.0				2	
004	c3019004	ICAL	CS1			30-MAR-2006 19:46	1.0	1.0				3	
005	c3019005	ICAL	CS2			30-MAR-2006 19:52	1.0	1.0				4	
006	c3019006	ICAL	CS3			30-MAR-2006 19:57	1.0	1.0				5	
007	c3019007	ICAL	CS4			30-MAR-2006 20:03	1.0	1.0				6	
008	c3019008	ICAL	CS5			30-MAR-2006 20:08	1.0	1.0				7	
009	c3019009	ICAL	CS6			30-MAR-2006 20:14	1.0	1.0				8	
010	c3019010	ICV				30-MAR-2006 20:20	1.0	1.0			1	9 2	
011	c3019011	ICB				30-MAR-2006 20:25	1.0	1.0			1	2	
012	c3019012	ICSA				30-MAR-2006 20:31	1.0	1.0			1	10 2	7:CA=293500
013	c3019013	ICSAB				30-MAR-2006 20:36	1.0	1.0			1	11 2	10:CA=300400
015	c3019015	BLANK	QC333120	111705	Water	30-MAR-2006 20:47	1.0	1.0			1	2	
016	c3019016	BS	QC333121	111705	Water	30-MAR-2006 20:53	1.0	1.0			1	2	
017	c3019017	BSD	QC333122	111705	Water	30-MAR-2006 20:59	1.0	1.0			1	2	
018	c3019018	MSS	185562-001	111705	Water	30-MAR-2006 21:04	1.0	1.0	3		1	2	3:NA=611200
019	c3019019	SER	QC333125	111705	Water	30-MAR-2006 21:10	5.0	1.0		1	1	2	2:NA=131660
020	c3019020	MS	QC333123	111705	Water	30-MAR-2006 21:15	1.0	1.0			1	2	3:NA=595900
021	c3019021	MSD	QC333124	111705	Water	30-MAR-2006 21:21	1.0	1.0			1	2	3:NA=623000
022	c3019022	PDS	QC333126	111705	Water	30-MAR-2006 21:27	1.0	1.0			1	12 2	3:NA=618600
024	c3019024	CCV				30-MAR-2006 21:38	1.0	1.0			1	13 2	
026	c3019026	CCB				30-MAR-2006 21:49	1.0	1.0			1	2	
027	c3019027	MSD	QC333509	111805	Filtra	30-MAR-2006 21:55	5.0	1.0		1	1	2	4:NA=1021600
028	c3019028	SAMPLE	185681-003	111705	Water	30-MAR-2006 22:00	1.0	1.0			1	2	4:NA=578600
029	c3019029	SAMPLE	185681-005	111705	Water	30-MAR-2006 22:06	1.0	1.0			1	2	4:NA=899800
030	c3019030	SAMPLE	185562-002	111705	Water	30-MAR-2006 22:12	1.0	1.0			1	2	4:NA=294900
031	c3019031	SAMPLE	185562-003	111705	Water	30-MAR-2006 22:17	1.0	1.0			1	2	3:NA=402700
032	c3019032	SAMPLE	185681-002	111705	Water	30-MAR-2006 22:23	1.0	1.0	5		1	2	13:CA=1105000
034	c3019034	CCV				30-MAR-2006 22:34	1.0	1.0			1	13 2	
036	c3019036	CCB				30-MAR-2006 22:45	1.0	1.0			1	2	
037	c3019037	ICSA				30-MAR-2006 22:51	1.0	1.0			1	10 2	7:CA=293100

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2309 13=S2897

Analyst: [signature] Date: 3/30/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56129329 Instrument: MET05 Agilent ICP-MS Begun: 30-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
079	c3019079	SAMPLE	185438-011	111435	Water	31-MAR-2006 02:46	1.0	1.0			1	2	
080	c3019080	SAMPLE	185438-012	111435	Water	31-MAR-2006 02:52	1.0	1.0			1	2	1:NA=24140.0
081	c3019081	SAMPLE	185438-013	111435	Water	31-MAR-2006 02:57	1.0	1.0			1	2	1:NA=23540.0
082	c3019082	SAMPLE	185438-014	111435	Water	31-MAR-2006 03:03	1.0	1.0			1	2	
083	c3019083	SAMPLE	185438-015	111435	Water	31-MAR-2006 03:09	1.0	1.0			1	2	1:NA=20520.0
084	c3019084	SAMPLE	185438-016	111435	Water	31-MAR-2006 03:14	1.0	1.0			1	2	2:NA=32130.0
085	c3019085	SAMPLE	185438-017	111435	Water	31-MAR-2006 03:20	1.0	1.0			1	2	
087	c3019087	CCV				31-MAR-2006 03:31	1.0	1.0			1	13 2	
089	c3019089	CCB				31-MAR-2006 03:42	1.0	1.0	1		1	2	
090	c3019090	ICSA				31-MAR-2006 03:48	1.0	1.0			1	10 2	7:CA=290900
091	c3019091	ICSAB				31-MAR-2006 03:53	1.0	1.0			1	11 2	10:CA=300000
093	c3019093	TUN				31-MAR-2006 04:05	1.0	1.0				1	
095	c3019095	BLANK	QC333334	111759	Filtra	31-MAR-2006 04:17	1.0	1.0			1	2	
096	c3019096	BS	QC333335	111759	Filtra	31-MAR-2006 04:22	1.0	1.0	1	1	1	2	
097	c3019097	BSD	QC333336	111759	Filtra	31-MAR-2006 04:28	1.0	1.0	1	1	1	2	
098	c3019098	MSS	185586-015	111759	Filtra	31-MAR-2006 04:33	1.0	1.0	3		1	2	3:NA=64470.0
099	c3019099	SER	QC333339	111759	Filtra	31-MAR-2006 04:39	5.0	1.0			1	2	
100	c3019100	MS	QC333337	111759	Filtra	31-MAR-2006 04:45	1.0	1.0		1	1	2	3:NA=76510.0
101	c3019101	MSD	QC333338	111759	Filtra	31-MAR-2006 04:50	1.0	1.0			1	2	3:NA=76210.0
102	c3019102	PDS	QC333340	111759	Filtra	31-MAR-2006 04:56	1.0	1.0			1	12 2	3:NA=76620.0
104	c3019104	CCV				31-MAR-2006 05:07	1.0	1.0	1		1	13 2	
106	c3019106	CCB				31-MAR-2006 05:18	1.0	1.0			1	2	
107	c3019107	MSS	185586-015	111759	Filtra	31-MAR-2006 05:24	20.0	1.0	2		1	2	
108	c3019108	X	QC333339	111759	Filtra	31-MAR-2006 05:30	100.0	1.0		2	1	2	
109	c3019109	MS	QC333337	111759	Filtra	31-MAR-2006 05:35	20.0	1.0	2	3	1	2	
110	c3019110	MSD	QC333338	111759	Filtra	31-MAR-2006 05:41	20.0	1.0	1	3	1	2	
111	c3019111	PDS	QC333340	111759	Filtra	31-MAR-2006 05:47	1.0	1.0	1	7	1	12 2	
112	c3019112	SAMPLE	185586-016	111759	Filtra	31-MAR-2006 05:52	1.0	1.0	3		1	2	3:MG=87700.0
113	c3019113	SAMPLE	185586-004	111759	Filtra	31-MAR-2006 05:58	1.0	1.0			1	2	2:NA=151200
114	c3019114	SAMPLE	185586-005	111759	Filtra	31-MAR-2006 06:04	1.0	1.0			1	2	3:NA=255100
115	c3019115	SAMPLE	185586-006	111759	Filtra	31-MAR-2006 06:09	1.0	1.0			1	2	2:NA=233500

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Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2309 13=S2897

Analyst: MeiWu Date: 3/30/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56129329 Instrument: MET05 Agilent ICP-MS Begun: 30-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
116	c3019116	SAMPLE	185586-007	111759	Filtra	31-MAR-2006 06:15	1.0	1.0			1	2	
118	c3019118	CCV				31-MAR-2006 06:26	1.0	1.0	2		1	13 2	
120	c3019120	CCB				31-MAR-2006 06:37	1.0	1.0	1		1	2	
121	c3019121	SAMPLE	185586-009	111759	Filtra	31-MAR-2006 06:43	1.0	1.0	4		1	2	3:CA=31250.0
122	c3019122	SAMPLE	185586-010	111759	Filtra	31-MAR-2006 06:49	1.0	1.0	5		1	2	4:NA=52080.0
123	c3019123	SAMPLE	185586-011	111759	Filtra	31-MAR-2006 06:54	1.0	1.0	3		1	2	2:MG=87310.0
124	c3019124	SAMPLE	185586-017	111759	Filtra	31-MAR-2006 07:00	1.0	1.0	3		1	2	2:NA=41490.0
125	c3019125	SAMPLE	185586-010	111759	Water	31-MAR-2006 07:06	1.0	1.0	12		1	2	11:FE=127300
126	c3019126	SAMPLE	185586-011	111759	Water	31-MAR-2006 07:11	1.0	1.0	7		1	2	6:MG=79400.0
127	c3019127	SAMPLE	185586-016	111759	Filtra	31-MAR-2006 07:17	20.0	1.0	1		1	2	
128	c3019128	SAMPLE	185586-004	111759	Filtra	31-MAR-2006 07:22	20.0	1.0			1	2	
129	c3019129	SAMPLE	185586-005	111759	Filtra	31-MAR-2006 07:28	20.0	1.0			1	2	
130	c3019130	SAMPLE	185586-006	111759	Filtra	31-MAR-2006 07:34	20.0	1.0			1	2	
132	c3019132	CCV				31-MAR-2006 07:45	1.0	1.0			1	13 2	
134	c3019134	CCB				31-MAR-2006 07:57	1.0	1.0	2		1	2	768
135	c3019135	SAMPLE	185586-007	111759	Filtra	31-MAR-2006 08:02	20.0	1.0			1	2	
136	c3019136	SAMPLE	185586-009	111759	Filtra	31-MAR-2006 08:08	20.0	1.0			1	2	
137	c3019137	SAMPLE	185586-010	111759	Filtra	31-MAR-2006 08:14	20.0	1.0			1	2	
138	c3019138	SAMPLE	185586-011	111759	Filtra	31-MAR-2006 08:19	20.0	1.0			1	2	
139	c3019139	SAMPLE	185586-017	111759	Filtra	31-MAR-2006 08:25	20.0	1.0			1	2	
140	c3019140	SAMPLE	185586-010	111759	Water	31-MAR-2006 08:31	20.0	1.0	2		1	2	2:AL=4485.00
141	c3019141	SAMPLE	185586-011	111759	Water	31-MAR-2006 08:36	20.0	1.0	1		1	2	1:AL=1186.00
143	c3019143	CCV				31-MAR-2006 08:48	1.0	1.0			1	13 2	
145	c3019145	CCB				31-MAR-2006 08:59	1.0	1.0	1		1	2	
147	c3019147	SER	QC332053	111435	Water	31-MAR-2006 09:17	5.0	1.0	1	2	1	2	
149	c3019149	SAMPLE	185681-002	111705	Water	31-MAR-2006 09:31	10.0	1.0	1		1	2	7:CA=108600
150	c3019150	SAMPLE	185681-002	111705	Water	31-MAR-2006 09:37	500.0	1.0			1	2	
152	c3019152	CCV				31-MAR-2006 09:48	1.0	1.0	1		1	13 2	
154	c3019154	CCB				31-MAR-2006 10:00	1.0	1.0			1	2	
155	c3019155	ICSA				31-MAR-2006 10:05	1.0	1.0			1	10 2	7:CA=293300
156	c3019156	ICSAB				31-MAR-2006 10:11	1.0	1.0			1	11 2	8:CA=300900

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2309 13=S2897

Analyst: [signature] Date: 3/30/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56130353001
Units : ug/L

Date : 31-MAR-2006 12:45
X Axis : R

Reviewer: ---
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	c3112004	56130353004	CS1	31-MAR-2006 12:50	S2889
L2	c3112005	56130353005	CS2	31-MAR-2006 12:56	S2890
L3	c3112006	56130353006	CS3	31-MAR-2006 13:01	S2891
L4	c3112007	56130353007	CS4	31-MAR-2006 13:07	S2892
L5	c3112008	56130353008	CS5	31-MAR-2006 13:12	S2886
L6	c3112009	56130353009	CS6	31-MAR-2006 13:18	S2887

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		4.2870	2.9557	1.7104	1.7056	1.6901	BLNK	-1.1804	0.59492		2.4698	1.000	0.995	
Antimony	0.4270	0.3773	0.3800	0.3489	0.3534	0.3489	BLNK	-0.0841	2.86018		0.3726	1.000	0.995	
Arsenic		1.0930	0.9678	0.8421	0.8230	0.7994	BLNK	-0.3589	1.24625		0.9051	1.000	0.995	
Barium	0.1828	0.1692	0.1687	0.1615	0.1668	0.1685	BLNK	-0.0314	5.94879		0.1696	1.000	0.995	
Beryllium	0.2764	0.2630	0.2680	0.2595	0.2738	0.2679	BLNK	-0.0081	3.71739		0.2681	1.000	0.995	
Cadmium	1.0910	0.8853	0.7697	0.6847	0.6741	0.6494	BLNK	-0.1273	1.52932		0.7924	1.000	0.995	
Calcium		0.0480	0.0408	0.0374	0.0383	0.0377	BLNK	-11.986	26.4557		0.0404	1.000	0.995	
Chromium		20.468	13.534	8.1054	8.0274	7.6234	BLNK	-0.8082	0.13043		11.552	0.999	0.995	769
Cobalt	9.0149	8.3607	8.6045	8.3740	8.7163	8.5980	BLNK	-0.0099	0.11600		8.6114	1.000	0.995	
Copper		2.2341	2.1019	2.0094	1.9296	1.8557	BLNK	-0.0338	0.53464		2.0262	1.000	0.995	
Iron		0.2770	0.2354	0.1921	0.2005	0.1948	BLNK	-22.491	5.11002		0.2200	1.000	0.995	
Lead	1.9459	1.8221	1.8083	1.7839	1.9953	1.8853	BLNK	-0.0356	0.52448		1.8735	0.999	0.995	
Magnesium		0.1920	0.1885	0.2056	0.1878	0.1879	BLNK	-1.0359	5.32192		0.1924	1.000	0.995	
Manganese	14.454	11.132	10.595	9.4012	9.7293	9.5177	BLNK	-0.0752	0.10465		10.805	1.000	0.995	
Molybdenum		1.5933	1.5204	1.4539	1.4797	1.4772	BLNK	-0.0400	0.67692		1.5049	1.000	0.995	
Nickel	2.4350	2.1522	1.9732	1.8990	1.8367	1.8237	BLNK	-0.0610	0.54771		2.0200	1.000	0.995	
Potassium		2.8708	2.2177	1.6429	1.5509	1.5418	BLNK	-37.047	0.64924		1.9648	1.000	0.995	
Selenium		0.1602	0.1271	0.0797	0.0720	0.0696	BLNK	-0.7602	14.3310		0.1017	1.000	0.995	
Silver	3.9731	3.6246	3.5441	3.3139	3.2241	3.1810	BLNK	-0.0476	0.31358		3.4768	1.000	0.995	
Sodium		2.7760	2.3574	1.9524	1.8711	1.8417	BLNK	-17.318	0.54176		2.1597	1.000	0.995	
Thallium		1.4465	1.3051	1.2642	1.3822	1.4303	BLNK	-0.1228	0.70459		1.3657	1.000	0.995	
Vanadium		14.439	11.482	8.9691	9.5713	9.2328	BLNK	-0.2438	0.10769		10.739	1.000	0.995	
Zinc		2.7578	1.5533	0.9430	0.8559	0.8025	BLNK	-0.5251	1.23325		1.3825	0.999	0.995	

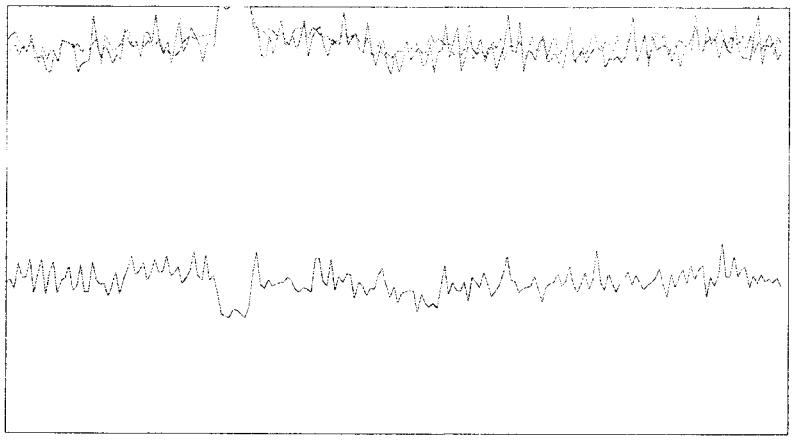
BLNK=Y=aX+ [blank]

Instrument amount = a0 + response * a1 + response^2 * a2

56130353001

Tune Report

Tune File : Autotune.u



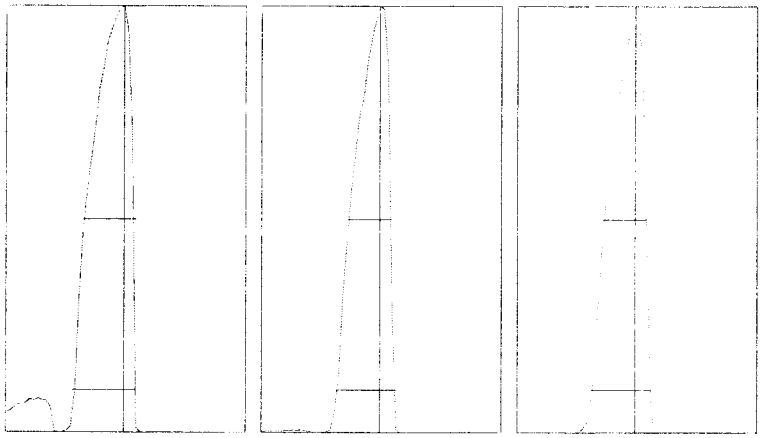
m/z:	7	89	205
Range:	50,000	20,000	10,000
Count:	17,392	17,958	9,127
Mean:	17860.3	18185.9	9240.7
RSD%:	8.91	4.28	5.33
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.62%
Doubly Charged:	70/140	1.18%

Background:

m/z:	7	89	205
Cps:	6.1	3.9	4.8



m/z:	7	89	205
Height:	17,904	17,435	9,009
Axis:	7.00	89.00	205.00
W-50%:	0.65	0.55	0.55
W-10%:	0.800	0.7500	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===			===Ion Lenses===			===Q-Pole Parameters===		
RF Power:	1260	W	Extract 1:	-156.2	V	AMU Gain:	130	
RF Matching:	1.62	V	Extract 2:	-66	V	AMU Offset:	126	
Smpl Depth:	8	mm	Einzel 1,3:	-122	V	Axis Gain:	0.9998	
Torch-H:	0	mm	Einzel 2:	12	V	Axis Offset:	-0.12	
Torch-V:	0.4	mm	Omega Bias:	-46	V	QP Bias:	1.5	V
Carrier Gas:	1.1	L/min	Omega (+):	5	V			
Makeup Gas:	0	L/min	Omega (-):	-3.7	V	===Detector Parameters===		
Optional Gas:	---	%	QP Focus:	5.2	V	Discriminator:	8.7	mV
PeriPump1:	0.1	rps	Plate Bias:	-12.5	V	Analog HV:	1760	V
PeriPump2:	---	rps				Pulse HV:	1240	V
S/C Temp:	2	degC						

Generated : Mar 31, 2006 11:55:16
Printed : Mar 31, 2006 11:55:23

P/A Factor Tuning Report

Acquired:Mar 31 2006 00:21 pm

Mass[amu]	Element	P/A Factor
6	Li	0.072569
9	Be	0.082467
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.099451
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.102782
45	Sc	Sensitivity too low
51	V	0.103050
52	Cr	0.104861
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.107364
57	Fe	0.110406
59	Co	0.110408
60	Ni	Sensitivity too low
63	Cu	0.111946
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	Sensitivity too low
95	Mo	Sensitivity too low
98	Mo	0.106885
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.115112
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	Sensitivity too low
118	(In)	0.118802
121	Sb	Sensitivity too low
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	Sensitivity too low
166	Er	Sensitivity too low

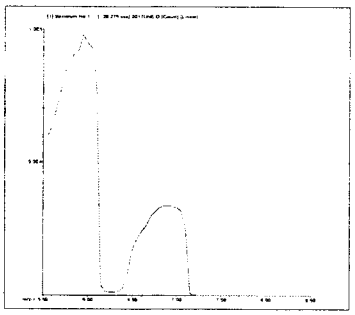
```
205        Tl    0.123886
206      (Pb)  Sensitivity too low
207      (Pb)  Sensitivity too low
208        Pb    0.122445
209        Bi  Sensitivity too low

===Detector Parameters===
  Discriminator: 8.7 mV
      Analog HV: 1760 V
       Pulse HV: 1240 V
```

6020 QC Tune Report

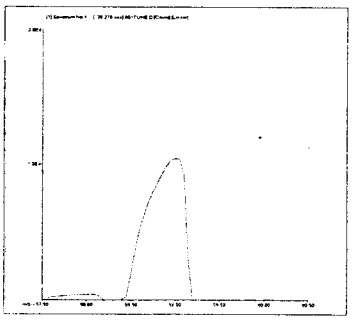
Data File: C:\ICPCHEM\1\DATA\06C3112b.B\001TUNE.D
Date Acquired: Mar 31 2006 12:33 pm
Acq. Method: TN6020.M
Operator:
Sample Name: TUN,S2898
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

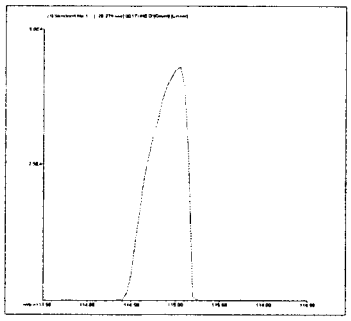
Element	Actual	Required	Flag
7 Li	1.92	5.00	
59 Co	2.06	5.00	
115 In	1.19	5.00	
205 Tl	1.10	5.00	



7 Li
Mass Calib.
Actual: 6.90
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.55
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.00
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



115 In

Mass Calib.

Actual: 115.05

Required: 114.90 - 115.10

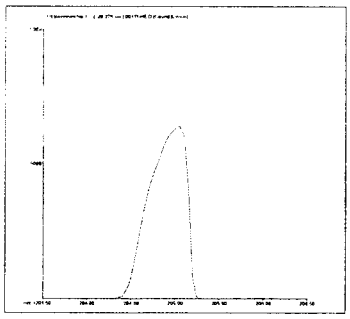
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



205 Tl

Mass Calib.

Actual: 205.05

Required: 204.90 - 205.10

Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06C3112b.B\002BLNK.D\002BLNK.D#
Date Acquired: Mar 31 2006 12:39 pm
Acq. Method: 60200111.M
Operator:
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update: Mar 30 2006 08:16 pm
Sample Type: 6-Blank
Dilution Factor: 1.00

QC Elements

Element	Corr. Conc.	RSD(%)	Raw Conc.	High Limit	Flag
9 Be	-0.05228 ppb	5.29	-0.05228	1.00	
23 Na	6.726 ppb	4.28	6.726	1.00	
26 Mg	-16.27 ppb	3.48	-16.27	1.00	
27 Al	-0.1366 ppb	45.17	-0.1366	1.00	
39 K	-90.37 ppb	7.03	-90.37	1.00	
44 Ca	-45.72 ppb	0.90	-45.72	1.00	
51 V	1.463 ppb	30.03	1.463	1.00	
52 Cr	2.097 ppb	5.77	2.097	1.00	
55 Mn	-0.07217 ppb	8.78	-0.07217	1.00	
57 Fe	-14.76 ppb	6.08	-14.76	1.00	
59 Co	-0.04413 ppb	5.01	-0.04413	1.00	
60 Ni	-0.1291 ppb	16.42	-0.1291	1.00	
65 Cu	0.02116 ppb	73.91	0.02116	1.00	
66 Zn	0.09848 ppb	9.35	0.09848	1.00	
75 As	0.3433 ppb	23.15	0.3433	1.00	
82 Se	0.6211 ppb	105.81	0.6211	1.00	
95 Mo	-0.06336 ppb	15.88	-0.06336	1.00	
109 Ag	0.04285 ppb	13.33	0.04285	1.00	
111 Cd	0.08256 ppb	59.50	0.08256	1.00	
121 Sb	0.04284 ppb	73.93	0.04284	1.00	
137 Ba	-0.02116 ppb	163.14	-0.02116	1.00	
205 Tl	0.4683 ppb	11.34	0.4683	1.00	
208 Pb	0.01107 ppb	103.61	0.01107	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	942706.13	0.97	---	#VALUE!	80 - 120	
45 Sc	386223.31	2.23	---	#VALUE!	80 - 120	
72 Ge	54036.89	1.54	---	#VALUE!	80 - 120	
115 In	305855.22	0.66	---	#VALUE!	80 - 120	
209 Bi	219093.33	1.86	---	#VALUE!	80 - 120	

ISTD Ref File : ---

2 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Fail
ISTD: Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06C3112b.B\003CAL
Date Acquired: Mar 31 2006 12:45 pm
Operator:
Sample Name: std-blk
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 30 2006 08:16 pm
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	922427.19	A	14000.00	1.52
9	Be	40.00	P	10.00	25.00
23	Na	245140.00	P	5348.00	2.18
26	Mg	1492.22	P	273.30	18.32
27	Al	15214.44	P	177.90	1.17
39	K	437295.00	M	41010.00	9.38
44	Ca	3474.62	P	188.30	5.42
45	Sc	383420.00	P	5618.00	1.47
51	V	2474.51	P	779.50	31.50
52	Cr	6755.56	P	61.85	0.92
55	Mn	783.33	P	28.87	3.69
57	Fe	4797.78	P	39.77	0.83
59	Co	93.33	P	12.02	12.88
60	Ni	121.11	P	23.65	19.53
65	Cu	68.88	P	13.47	19.56
66	Zn	464.44	P	24.12	5.19
72	Ge	54518.00	P	899.80	1.65
75	As	314.10	P	44.41	14.14
82	Se	58.00	P	24.69	42.57
95	Mo	64.44	P	6.94	10.77
109	Ag	165.56	P	32.89	19.87
111	Cd	90.87	P	22.55	24.82
115	In	304019.50	P	3771.00	1.24
121	Sb	178.89	P	19.53	10.92
137	Ba	32.22	P	12.62	39.17
205	Tl	728.89	P	58.25	7.99
208	Pb	283.33	P	42.56	15.02
209	Bi	209143.30	P	3096.00	1.48

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C3112b.B\004CALI.D\004CALI.D#
Date Acquired: Mar 31 2006 12:50 pm
Operator:
Sample Name: CS1,S2889
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 31 2006 00:46 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	943030.88	A	3349.00	0.36
9	Be	1303.33	P	55.08	4.23
23	Na	651101.38	A	15140.00	2.33
26	Mg	36870.00	P	482.20	1.31
27	Al	11366.67	P	363.50	3.20
39	K	797305.13	A	12370.00	1.55
44	Ca	10203.32	P	23.75	0.23
45	Sc	382324.41	P	6051.00	1.58
51	V	5860.66	P	459.60	7.84
52	Cr	13567.78	P	56.40	0.42
55	Mn	3904.44	P	83.69	2.14
57	Fe	10544.44	P	15.03	0.14
59	Co	2435.56	P	48.23	1.98
60	Ni	657.78	P	37.17	5.65
65	Cu	728.73	P	35.33	4.85
66	Zn	868.70	P	80.30	9.24
72	Ge	54031.33	P	529.20	0.98
75	As	294.81	P	185.70	62.99
82	Se	72.89	P	13.04	17.89
95	Mo	462.22	P	38.92	8.42
109	Ag	1073.33	P	75.13	7.00
111	Cd	294.45	P	45.35	15.40
115	In	303939.69	P	1251.00	0.41
121	Sb	648.89	P	88.78	13.68
137	Ba	277.78	P	11.71	4.22
205	Tl	1897.78	P	42.99	2.27
208	Pb	2080.00	P	43.72	2.10
209	Bi	213933.30	P	5545.00	2.59

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	943030.88	0.36	922427.13	102.2	80 - 120	

45	Sc	382324.44	1.58	383420.00	99.7	80 -	120
72	Ge	54031.33	0.98	54518.00	99.1	80 -	120
115	In	303939.69	0.41	304019.53	100.0	80 -	120
209	Bi	213933.33	2.59	209143.33	102.3	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C3112b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C3112b.B\005CALI.D\005CALI.D#
Date Acquired: Mar 31 2006 12:56 pm
Operator:
Sample Name: CS2,S2890
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 31 2006 00:52 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	943466.69	A	24080.00	2.55
9	Be	2480.00	P	40.55	1.64
23	Na	1055577.00	A	31850.00	3.02
26	Mg	72976.66	P	1485.00	2.03
27	Al	16297.78	P	378.30	2.32
39	K	1091405.00	A	17940.00	1.64
44	Ca	18230.75	P	425.30	2.33
45	Sc	380200.00	P	8006.00	2.11
51	V	7835.57	P	1507.00	19.23
52	Cr	11103.33	P	318.00	2.86
55	Mn	6038.89	P	157.50	2.61
57	Fe	15027.78	P	602.50	4.01
59	Co	4535.56	P	102.90	2.27
60	Ni	1167.78	P	83.42	7.14
65	Cu	1211.91	P	126.90	10.47
66	Zn	1496.30	P	103.50	6.92
72	Ge	54244.22	P	657.70	1.21
75	As	594.39	P	220.40	37.08
82	Se	87.11	P	36.30	41.67
95	Mo	864.44	P	78.20	9.05
109	Ag	1965.56	P	83.82	4.26
111	Cd	480.34	P	51.22	10.66
115	In	308675.19	P	2044.00	0.66
121	Sb	1164.44	P	40.05	3.44
137	Ba	522.22	P	34.21	6.55
205	Tl	3154.44	P	153.30	4.86
208	Pb	3973.33	P	73.11	1.84
209	Bi	218083.30	P	1187.00	0.54

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	943466.75	2.55	922427.13	102.3	80 - 120	

45 Sc	380200.00	2.11	383420.00	99.2	80 -	120
72 Ge	54244.22	1.21	54518.00	99.5	80 -	120
115 In	308675.25	0.66	304019.53	101.5	80 -	120
209 Bi	218083.33	0.54	209143.33	104.3	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C3112b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C3112b.B\006CALI.D\006CALI.D#
Date Acquired: Mar 31 2006 01:01 pm
Operator:
Sample Name: CS3,S2891
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 31 2006 00:57 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	951440.63	A	19790.00	2.08
9	Be	5098.89	P	236.00	4.63
23	Na	1814783.00	A	38140.00	2.10
26	Mg	145175.59	P	4242.00	2.92
27	Al	22760.00	P	439.80	1.93
39	K	1707775.00	A	37990.00	2.22
44	Ca	31376.45	P	459.90	1.47
45	Sc	385073.31	P	9686.00	2.52
51	V	12509.16	P	1077.00	8.61
52	Cr	14746.67	P	508.60	3.45
55	Mn	11542.22	P	499.40	4.33
57	Fe	25645.55	P	846.70	3.30
59	Co	9376.67	P	285.40	3.04
60	Ni	2150.00	P	26.46	1.23
65	Cu	2290.49	P	116.60	5.09
66	Zn	1692.61	P	23.35	1.38
72	Ge	54484.67	P	411.60	0.76
75	As	1054.00	P	126.50	12.00
82	Se	138.44	P	6.34	4.58
95	Mo	1656.67	P	68.88	4.16
109	Ag	3862.22	P	162.00	4.19
111	Cd	838.86	P	33.56	4.00
115	In	305396.91	P	4007.00	1.31
121	Sb	2321.11	P	36.57	1.58
137	Ba	1030.00	P	66.92	6.50
205	Tl	5565.56	P	229.00	4.11
208	Pb	7708.89	P	126.10	1.64
209	Bi	213246.70	P	7287.00	3.42

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	951440.56	2.08	922427.13	103.1	80 - 120	

45	Sc	385073.31	2.52	383420.00	100.4	80 - 120
72	Ge	54484.67	0.76	54518.00	99.9	80 - 120
115	In	305396.88	1.31	304019.53	100.5	80 - 120
209	Bi	213246.66	3.42	209143.33	102.0	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C3112b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**

ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C3112b.B\007CALI.D\007CALI.D#
Date Acquired: Mar 31 2006 01:07 pm
Operator:
Sample Name: CS4,S2892
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 31 2006 01:03 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	945812.31	A	11960.00	1.26
9	Be	49097.77	P	1058.00	2.15
23	Na	14855910.00	A	199500.00	1.34
26	Mg	1564538.00	A	29460.00	1.88
27	Al	130157.80	P	1199.00	0.92
39	K	12501370.00	A	57690.00	0.46
44	Ca	284888.41	P	8009.00	2.81
45	Sc	380481.09	P	3289.00	0.86
51	V	98460.15	P	3265.00	3.32
52	Cr	88981.11	P	3227.00	3.63
55	Mn	103185.50	P	2162.00	2.10
57	Fe	210852.20	P	1728.00	0.82
59	Co	91918.88	P	1957.00	2.13
60	Ni	20844.44	P	208.90	1.00
65	Cu	22056.75	P	577.70	2.62
66	Zn	10351.07	P	289.30	2.79
72	Ge	54882.44	P	384.20	0.70
75	As	9242.43	P	334.00	3.61
82	Se	874.44	P	37.18	4.25
95	Mo	15956.67	P	266.90	1.67
109	Ag	36374.44	P	168.40	0.46
111	Cd	7515.88	P	149.90	1.99
115	In	305582.50	P	7689.00	2.52
121	Sb	21318.89	P	332.80	1.56
137	Ba	9864.44	P	267.70	2.71
205	Tl	53367.77	P	1637.00	3.07
208	Pb	75307.78	P	164.70	0.22
209	Bi	211130.00	P	4336.00	2.05

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	945812.25	1.26	922427.13	102.5	80 - 120	

45	Sc	380481.09	0.86	383420.00	99.2	80 - 120
72	Ge	54882.44	0.70	54518.00	100.7	80 - 120
115	In	305582.47	2.52	304019.53	100.5	80 - 120
209	Bi	211129.98	2.05	209143.33	100.9	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C3112b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C3112b.B\008CALI.D\008CALI.D#
Date Acquired: Mar 31 2006 01:12 pm
Operator:
Sample Name: CS5,S2886
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 31 2006 01:08 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	950058.69	A	21870.00	2.30
9	Be	520084.09	A	5433.00	1.04
23	Na	144234900.00	A	2574000.00	1.78
26	Mg	14478810.00	A	247200.00	1.71
27	Al	1314813.00	A	27210.00	2.07
39	K	119539500.00	A	2095000.00	1.75
44	Ca	2953064.00	A	63100.00	2.14
45	Sc	385425.50	P	2659.00	0.69
51	V	1048462.00	A	22040.00	2.10
52	Cr	879366.81	A	22240.00	2.53
55	Mn	1066155.00	A	23570.00	2.21
57	Fe	2197311.00	A	80450.00	3.66
59	Co	955150.13	A	21320.00	2.23
60	Ni	201287.80	P	5283.00	2.62
65	Cu	211374.80	P	4475.00	2.12
66	Zn	93779.83	P	1410.00	1.50
72	Ge	54790.22	P	822.10	1.50
75	As	90170.17	P	539.90	0.60
82	Se	7890.00	P	116.60	1.48
95	Mo	162121.09	P	1293.00	0.80
109	Ag	353246.69	P	2246.00	0.64
111	Cd	73859.31	P	457.60	0.62
115	In	300309.81	P	984.80	0.33
121	Sb	212281.09	P	2744.00	1.29
137	Ba	100154.40	P	355.30	0.35
205	Tl	552280.00	P	10210.00	1.85
208	Pb	797282.19	P	8806.00	1.10
209	Bi	199836.70	P	3431.00	1.72

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	950058.69	2.30	922427.13	103.0	80 - 120	

45	Sc	385425.53	0.69	383420.00	100.5	80 -	120
72	Ge	54790.22	1.50	54518.00	100.5	80 -	120
115	In	300309.75	0.33	304019.53	98.8	80 -	120
209	Bi	199836.66	1.72	209143.33	95.6	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C3112b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**

ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06C3112b.B\009CALI.D\009CALI.D#
Date Acquired: Mar 31 2006 01:18 pm
Operator:
Sample Name: CS6,S2887
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 31 2006 01:14 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	933160.69	A	27780.00	2.98
9	Be	999543.38	A	16320.00	1.63
23	Na	289875010.00	A	5106000.00	1.76
26	Mg	29574350.00	A	838600.00	2.84
27	Al	2659702.00	A	57100.00	2.15
39	K	242632300.00	A	5333000.00	2.20
44	Ca	5933400.00	A	59880.00	1.01
45	Sc	393493.31	P	7433.00	1.89
51	V	2061088.00	A	88220.00	4.28
52	Cr	1701623.00	A	58260.00	3.42
55	Mn	2123975.00	A	10870.00	0.51
57	Fe	4347927.00	A	28900.00	0.66
59	Co	1918611.00	A	5740.00	0.30
60	Ni	407041.09	P	7557.00	1.86
65	Cu	414152.19	P	5919.00	1.43
66	Zn	179122.09	P	3568.00	1.99
72	Ge	55795.33	P	787.80	1.41
75	As	178406.80	P	2159.00	1.21
82	Se	15536.44	P	349.30	2.25
95	Mo	329725.50	P	8827.00	2.68
109	Ag	710021.13	P	17950.00	2.53
111	Cd	144941.30	P	2884.00	1.99
115	In	299275.19	P	4121.00	1.38
121	Sb	417674.41	P	7437.00	1.78
137	Ba	201717.80	P	4596.00	2.28
205	Tl	1106227.00	A	6181.00	0.56
208	Pb	1458598.00	P	19350.00	1.33
209	Bi	193440.00	P	4320.00	2.23

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	933160.69	2.98	922427.13	101.2	80 - 120	

45	Sc	393493.31	1.89	383420.00	102.6	80 -	120
72	Ge	55795.33	1.41	54518.00	102.3	80 -	120
115	In	299275.16	1.38	304019.53	98.4	80 -	120
209	Bi	193440.00	2.23	209143.33	92.5	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06C3112b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Summary

Calibration : C:\ICPCHEM\1\CALIB\60200111.C
Last Calib: Mar 31, 2006 13:21
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\06c3112b.b\003calb.d\	003calb.d#	Mar 31 2006 12:45 pm
2	...hem\1\data\06c3112b.b\004cali.d\	004cali.d#	Mar 31 2006 12:50 pm
3	...hem\1\data\06c3112b.b\005cali.d\	005cali.d#	Mar 31 2006 12:56 pm
4	...hem\1\data\06c3112b.b\006cali.d\	006cali.d#	Mar 31 2006 01:01 pm
5	...hem\1\data\06c3112b.b\007cali.d\	007cali.d#	Mar 31 2006 01:07 pm
6	...hem\1\data\06c3112b.b\008cali.d\	008cali.d#	Mar 31 2006 01:12 pm
7	...hem\1\data\06c3112b.b\009cali.d\	009cali.d#	Mar 31 2006 01:18 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	Excluded	---	ppb
Be	9	6	Y = 2.690E-1*X +2.174E-3(blank)	---	ppb
Na	23	45	Y = 1.846E+0*X +3.197E+1(blank)	---	ppb
Mg	25	45	Excluded	---	ppb
Mg	26	45	Y = 1.879E-1*X +1.946E-1(blank)	---	ppb
Al	27	45	Y = 1.681E+0*X +1.984E+0(blank)	---	ppb
K	39	45	Y = 1.540E+0*X +5.706E+1(blank)	---	ppb
Ca	43	45	Excluded	---	ppb
Ca	44	45	Y = 3.780E-2*X +4.530E-1(blank)	---	ppb
Sc	45	---	Excluded	---	ppb
V	51	72	Y = 9.286E+0*X +2.264E+0(blank)	---	ppb
Cr	52	72	Y = 7.667E+0*X +6.196E+0(blank)	---	ppb
Cr	53	72	Excluded	---	ppb
Fe	54	72	Excluded	---	ppb
Mn	55	72	Y = 9.555E+0*X +7.183E-1(blank)	---	ppb
Fe	57	72	Y = 1.957E-1*X +4.401E+0(blank)	---	ppb
Co	59	72	Y = 8.621E+0*X +8.573E-2(blank)	---	ppb
Ni	60	72	Y = 1.826E+0*X +1.113E-1(blank)	---	ppb
Cu	63	72	Excluded	---	ppb
Cu	65	72	Y = 1.870E+0*X +6.316E-2(blank)	---	ppb
Zn	66	72	Y = 8.109E-1*X +4.258E-1(blank)	---	ppb
Ge	72	---	Excluded	---	ppb
As	75	72	Y = 8.024E-1*X +2.880E-1(blank)	---	ppb
(As)	77	72	Excluded	---	ppb
Se	82	72	Y = 6.978E-2*X +5.305E-2(blank)	---	ppb
(As)	83	72	Excluded	---	ppb
(Ca)	88	72	Excluded	---	ppb
Y	89	72	Excluded	---	ppb
Mo	95	72	Y = 1.477E+0*X +5.905E-2(blank)	---	ppb
Mo	98	72	Excluded	---	ppb
(Mo)	99	72	Excluded	---	ppb
(Cd)	106	72	Excluded	---	ppb
(Cd)	108	72	Excluded	---	ppb
Ag	109	72	Y = 3.189E+0*X +1.517E-1(blank)	---	ppb
Cd	111	72	Y = 6.539E-1*X +8.323E-2(blank)	---	ppb
Cd	114	72	Excluded	---	ppb
In	115	---	Excluded	---	ppb
(In)	118	---	Excluded	---	ppb
Sb	121	115	Y = 3.496E-1*X +2.940E-2(blank)	---	ppb
Ba	135	115	Excluded	---	ppb
Ba	137	115	Y = 1.681E-1*X +5.283E-3(blank)	---	ppb
Tb	159	---	Excluded	---	ppb
Er	166	115	Excluded	---	ppb
Tl	205	209	Y = 1.419E+0*X +1.743E-1(blank)	---	ppb
(Pb)	206	209	Excluded	---	ppb
(Pb)	207	209	Excluded	---	ppb
Pb	208	209	Y = 1.907E+0*X +6.785E-2(blank)	---	ppb
Bi	209	---	Excluded	---	ppb
Th	232	209	--------	---	ppb
U	238	209	--------	---	ppb

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56130353010 File : c3112010 Time : 31-MAR-2006 13:23
Cal : 56130353001 Caldate: 31-MAR-2006
Standards: S2895, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	2.4698	1.7653	100.0	103.8	ug/L	4	10	
Antimony	0.3726	0.3529	100.0	100.8	ug/L	1	10	
Arsenic	0.9051	0.8194	100.0	101.8	ug/L	2	10	
Barium	0.1696	0.1684	100.0	100.1	ug/L	0	10	
Beryllium	0.2681	0.2686	100.0	99.84	ug/L	0	10	
Cadmium	0.7924	0.6674	100.0	101.9	ug/L	2	10	
Calcium	0.0404	0.0389	10000	10270	ug/L	3	10	
Chromium	11.552	7.9739	100.0	103.2	ug/L	3	10	
Cobalt	8.6114	8.8598	100.0	102.8	ug/L	3	10	
Copper	2.0262	1.9411	100.0	103.7	ug/L	4	10	
Iron	0.2200	0.2016	10000	10280	ug/L	3	10	
Lead	1.8735	1.9358	100.0	101.5	ug/L	2	10	
Magnesium	0.1924	0.1933	10000	10290	ug/L	3	10	
Manganese	10.805	9.7805	100.0	102.3	ug/L	2	10	
Molybdenum	1.5049	1.4554	100.0	98.48	ug/L	-2	10	
Nickel	2.0200	1.8582	100.0	101.7	ug/L	2	10	
Potassium	1.9648	1.5876	10000	10270	ug/L	3	10	
Selenium	0.1017	0.0726	100.0	103.2	ug/L	3	10	
Silver	3.4768	3.2387	100.0	101.5	ug/L	2	10	
Sodium	2.1597	1.8819	10000	10180	ug/L	2	10	
Thallium	1.3657	1.3495	100.0	94.96	ug/L	-5	10	
Vanadium	10.739	9.5722	100.0	102.8	ug/L	3	10	
Zinc	1.3825	0.8487	100.0	104.1	ug/L	4	10	

ISTD (ICALBLK c3112003)	ICALBLK Abund	Abund	%Drift
Lithium	922427	977965	6.02
Scandium	383420	403103	5.13
Germanium	54518	57386	5.26
Indium	304020	308723	1.55
Bismuth	209143	209042	-0.05

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56130353026 File : c3112026 Time : 31-MAR-2006 14:55
Cal : 56130353001 Caldate: 31-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.4698	1.7365	150.0	153.8	ug/L	3	10	
Antimony	0.3726	0.3418	150.0	146.6	ug/L	-2	10	
Arsenic	0.9051	0.8009	150.0	149.4	ug/L	0	10	
Barium	0.1696	0.1641	150.0	146.4	ug/L	-2	10	
Beryllium	0.2681	0.2672	150.0	149.0	ug/L	-1	10	
Cadmium	0.7924	0.6385	150.0	146.3	ug/L	-2	10	
Calcium	0.0404	0.0374	15000	14810	ug/L	-1	10	
Chromium	11.552	7.9362	150.0	154.5	ug/L	3	10	
Cobalt	8.6114	8.7010	150.0	151.4	ug/L	1	10	
Copper	2.0262	1.8907	150.0	151.6	ug/L	1	10	
Iron	0.2200	0.1968	15000	15060	ug/L	0	10	
Lead	1.8735	1.8179	150.0	143.0	ug/L	-5	10	
Magnesium	0.1924	0.1886	15000	15060	ug/L	0	10	
Manganese	10.805	9.7673	150.0	153.3	ug/L	2	10	
Molybdenum	1.5049	1.4322	150.0	145.4	ug/L	-3	10	
Nickel	2.0200	1.8434	150.0	151.4	ug/L	1	10	
Potassium	1.9648	1.5687	15000	15240	ug/L	2	10	
Selenium	0.1017	0.0692	150.0	148.0	ug/L	-1	10	
Silver	3.4768	3.0053	150.0	141.3	ug/L	-6	10	
Sodium	2.1597	1.8475	15000	15000	ug/L	0	10	
Thallium	1.3657	1.3569	150.0	143.3	ug/L	-4	10	
Vanadium	10.739	9.6017	150.0	154.9	ug/L	3	10	
Zinc	1.3825	0.8173	150.0	150.7	ug/L	0	10	

ISTD (ICALBLK c3112003)	ICALBLK Abund	Abund	%Drift
Lithium	922427	1001556	8.58
Scandium	383420	415309	8.32
Germanium	54518	58109	6.59
Indium	304020	308318	1.41
Bismuth	209143	200460	-4.15

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56130353040 File : c3112040 Time : 31-MAR-2006 16:12
Cal : 56130353001 Caldate: 31-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.4698	1.7023	150.0	150.7	ug/L	0	10	
Antimony	0.3726	0.3400	150.0	145.8	ug/L	-3	10	
Arsenic	0.9051	0.7982	150.0	148.9	ug/L	-1	10	
Barium	0.1696	0.1650	150.0	147.2	ug/L	-2	10	
Beryllium	0.2681	0.2672	150.0	149.0	ug/L	-1	10	
Cadmium	0.7924	0.6440	150.0	147.6	ug/L	-2	10	
Calcium	0.0404	0.0370	15000	14670	ug/L	-2	10	
Chromium	11.552	7.8685	150.0	153.1	ug/L	2	10	
Cobalt	8.6114	8.6330	150.0	150.2	ug/L	0	10	
Copper	2.0262	1.9064	150.0	152.9	ug/L	2	10	
Iron	0.2200	0.1946	15000	14890	ug/L	-1	10	
Lead	1.8735	1.8433	150.0	145.0	ug/L	-3	10	
Magnesium	0.1924	0.1863	15000	14870	ug/L	-1	10	
Manganese	10.805	9.5267	150.0	149.5	ug/L	0	10	
Molybdenum	1.5049	1.4325	150.0	145.4	ug/L	-3	10	
Nickel	2.0200	1.8003	150.0	147.8	ug/L	-1	10	
Potassium	1.9648	1.5220	15000	14790	ug/L	-1	10	
Selenium	0.1017	0.0685	150.0	146.4	ug/L	-2	10	
Silver	3.4768	3.0397	150.0	142.9	ug/L	-5	10	
Sodium	2.1597	1.8184	15000	14760	ug/L	-2	10	
Thallium	1.3657	1.3786	150.0	145.6	ug/L	-3	10	
Vanadium	10.739	9.6877	150.0	156.2	ug/L	4	10	
Zinc	1.3825	0.8159	150.0	150.4	ug/L	0	10	

ISTD (ICALBLK c3112003)	ICALBLK Abund	Abund	%Drift
Lithium	922427	1009579	9.45
Scandium	383420	423327	10.41
Germanium	54518	59576	9.28
Indium	304020	321078	5.61
Bismuth	209143	207201	-0.93

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56130353046 File : c3112046 Time : 31-MAR-2006 16:46
Cal : 56130353001 Caldate: 31-MAR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.4698	1.6753	150.0	148.3	ug/L	-1	10	
Antimony	0.3726	0.3448	150.0	147.8	ug/L	-1	10	
Arsenic	0.9051	0.7999	150.0	149.2	ug/L	-1	10	
Barium	0.1696	0.1650	150.0	147.2	ug/L	-2	10	
Beryllium	0.2681	0.2648	150.0	147.7	ug/L	-2	10	
Cadmium	0.7924	0.6486	150.0	148.7	ug/L	-1	10	
Calcium	0.0404	0.0377	15000	14950	ug/L	0	10	
Chromium	11.552	7.9219	150.0	154.2	ug/L	3	10	
Cobalt	8.6114	8.6027	150.0	149.7	ug/L	0	10	
Copper	2.0262	1.8934	150.0	151.8	ug/L	1	10	
Iron	0.2200	0.1950	15000	14930	ug/L	0	10	
Lead	1.8735	1.8190	150.0	143.1	ug/L	-5	10	
Magnesium	0.1924	0.1825	15000	14570	ug/L	-3	10	
Manganese	10.805	9.7166	150.0	152.5	ug/L	2	10	
Molybdenum	1.5049	1.4325	150.0	145.4	ug/L	-3	10	
Nickel	2.0200	1.8050	150.0	148.2	ug/L	-1	10	
Potassium	1.9648	1.5521	15000	15080	ug/L	1	10	
Selenium	0.1017	0.0695	150.0	148.7	ug/L	-1	10	
Silver	3.4768	3.0479	150.0	143.3	ug/L	-4	10	
Sodium	2.1597	1.7957	15000	14580	ug/L	-3	10	
Thallium	1.3657	1.3541	150.0	143.0	ug/L	-5	10	
Vanadium	10.739	9.8908	150.0	159.5	ug/L	6	10	
Zinc	1.3825	0.8222	150.0	151.6	ug/L	1	10	

ISTD (ICALBLK c3112003)	ICALBLK Abund	Abund	%Drift
Lithium	922427	1027442	11.38
Scandium	383420	434273	13.26
Germanium	54518	59479	9.10
Indium	304020	315739	3.85
Bismuth	209143	206358	-1.33

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56130353011 File : c3112011 Time : 31-MAR-2006 13:29
Cal : 56130353001 Caldate: 31-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.1762]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	[0.02665]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.01991]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.1078]	0.5000	0.03860	ug/L	!ib
Cobalt	[0.02178]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.03897]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.02758]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.03291]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	0.5388	0.5000	0.02100	ug/L	ib ***
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c3112003)	ICALBLK Abund	Abund	%Drift
Lithium	922427	990586	7.39
Scandium	383420	390440	1.83
Germanium	54518	55845	2.43
Indium	304020	312891	2.92
Bismuth	209143	217551	4.02

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56130353028 File : c3112028 Time : 31-MAR-2006 15:06
Cal : 56130353001 Caldate: 31-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.06780]	0.5000	0.03860	ug/L	!ib
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.03738]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	[0.1788]	1.000	0.09577	ug/L	!ib

ISTD (ICALBLK c3112003)	ICALBLK Abund	Abund	%Drift
Lithium	922427	1051224	13.96
Scandium	383420	420350	9.63
Germanium	54518	58540	7.38
Indium	304020	322145	5.96
Bismuth	209143	220439	5.40

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56130353042 File : c3112042 Time : 31-MAR-2006 16:24
Cal : 56130353001 Caldate: 31-MAR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.04550]	0.5000	0.03860	ug/L	!ib
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.02539]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.04672]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	[0.1544]	1.000	0.08283	ug/L	!ib
Zinc	[0.1674]	1.000	0.09577	ug/L	!ib

ISTD (ICALBLK c3112003)	ICALBLK Abund	Abund	%Drift
Lithium	922427	1073677	16.40
Scandium	383420	425108	10.87
Germanium	54518	58931	8.09
Indium	304020	325395	7.03
Bismuth	209143	228698	9.35

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56130353048 File : c3112048 IDF : 1.0
Cal : 56130353001 Caldate: 31-MAR-2006 Time : 31-MAR-2006 16:57

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.02992]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK c3112003)	ICALBLK Abund	Abund	%Drift
Lithium	922427	1056795	14.57
Scandium	383420	445438	16.17
Germanium	54518	59805	9.70
Indium	304020	332807	9.47
Bismuth	209143	228048	9.04

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CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56130353012 File : c3112012 Time : 31-MAR-2006 13:34
Cal : 56130353001 Caldate: 31-MAR-2006
Standards: S2893, 05WS0207

Analyte	Quant	RL	Units	Flags
Antimony	1.994	0.2500	ug/L	
Arsenic	[0.4904]	0.5000	ug/L	
Barium	0.9647	0.2500	ug/L	
Beryllium	[0.01224]	0.2500	ug/L	
Cadmium	[0.04688]	0.2500	ug/L	
Chromium	1.528	0.5000	ug/L	
Cobalt	2.413	0.2500	ug/L	
Copper	1.800	0.5000	ug/L	
Lead	1.366	0.2500	ug/L	
Manganese	0.9317	0.2500	ug/L	
Nickel	2.139	0.2500	ug/L	
Selenium	[0.1167]	0.5000	ug/L	
Silver	[0.1131]	0.2500	ug/L	
Thallium	[0.2099]	0.5000	ug/L	
Vanadium	[0.3430]	1.000	ug/L	
Zinc	2.773	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	98810	ug/L	99
Calcium	300000	306500	ug/L	102
Iron	250000	200900	ug/L	80
Magnesium	100000	103700	ug/L	104
Molybdenum	2000	1786	ug/L	89
Potassium	100000	98270	ug/L	98
Sodium	250000	242900	ug/L	97

ISTD (ICALBLK c3112003)	ICALBLK Abund	Abund	%Drift
Lithium	922427	730913	-20.76
Scandium	383420	319079	-16.78
Germanium	54518	54726	0.38
Indium	304020	243495	-19.91
Bismuth	209143	135901	-35.02

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56130353015 File : c3112015 Time : 31-MAR-2006 13:54
Cal : 56130353001 Caldate: 31-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	98000	ug/L	-2		
Arsenic	100.0	99.28	ug/L	-1	20	
Cadmium	100.0	87.98	ug/L	-12	20	
Calcium	300000	307800	ug/L	3		
Chromium	200.0	220.2	ug/L	10	20	
Cobalt	200.0	209.8	ug/L	5	20	
Copper	200.0	191.6	ug/L	-4	20	
Iron	250000	196600	ug/L	-21		
Magnesium	100000	102400	ug/L	2		
Manganese	200.0	217.7	ug/L	9	20	
Molybdenum	2000	1721	ug/L	-14		
Nickel	200.0	195.8	ug/L	-2	20	
Potassium	100000	100000	ug/L	0		
Selenium	100.0	98.50	ug/L	-2	20	
Silver	50.00	49.97	ug/L	0	20	
Sodium	250000	243800	ug/L	-2		
Vanadium	200.0	229.4	ug/L	15	20	
Zinc	100.0	90.21	ug/L	-10	20	

ISTD (ICALBLK c3112003)	ICALBLK Abund	Abund	%Drift
Scandium	383420	319479	-16.68
Germanium	54518	55358	1.54

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56130353049 File : c3112049 Time : 31-MAR-2006 17:03
Cal : 56130353001 Caldate: 31-MAR-2006
Standards: S2893, 05WS0207

Analyte	Quant	RL	Units	Flags
Antimony	1.890	0.2500	ug/L	
Arsenic	0.6321	0.5000	ug/L	
Barium	0.9582	0.2500	ug/L	
Beryllium	[0.009942]	0.2500	ug/L	
Cadmium	[0]	0.2500	ug/L	
Chromium	1.360	0.5000	ug/L	
Cobalt	2.357	0.2500	ug/L	
Copper	1.682	0.5000	ug/L	
Lead	1.288	0.2500	ug/L	
Manganese	0.9118	0.2500	ug/L	
Nickel	2.652	0.2500	ug/L	
Selenium	[0]	0.5000	ug/L	
Silver	[0.08554]	0.2500	ug/L	
Thallium	[0.006063]	0.5000	ug/L	
Vanadium	[0.3797]	1.000	ug/L	
Zinc	2.563	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	93310	ug/L	93
Calcium	300000	297000	ug/L	99
Iron	250000	192600	ug/L	77
Magnesium	100000	96630	ug/L	97
Molybdenum	2000	1653	ug/L	83
Potassium	100000	96380	ug/L	96
Sodium	250000	228900	ug/L	92

ISTD (ICALBLK c3112003)	ICALBLK Abund	Abund	%Drift
Lithium	922427	821995	-10.89
Scandium	383420	343421	-10.43
Germanium	54518	56899	4.37
Indium	304020	249104	-18.06
Bismuth	209143	137459	-34.28

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56130353050 File : c3112050 Time : 31-MAR-2006 17:08
Cal : 56130353001 Caldate: 31-MAR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	98130	ug/L	-2		
Arsenic	100.0	98.05	ug/L	-2	20	
Cadmium	100.0	85.47	ug/L	-15	20	
Calcium	300000	312800	ug/L	4		
Chromium	200.0	225.1	ug/L	13	20	
Cobalt	200.0	210.5	ug/L	5	20	
Copper	200.0	192.4	ug/L	-4	20	
Iron	250000	194800	ug/L	-22		
Magnesium	100000	102900	ug/L	3		
Manganese	200.0	220.8	ug/L	10	20	
Molybdenum	2000	1689	ug/L	-16		
Nickel	200.0	195.2	ug/L	-2	20	
Potassium	100000	101900	ug/L	2		
Selenium	100.0	102.3	ug/L	2	20	
Silver	50.00	49.09	ug/L	-2	20	
Sodium	250000	244800	ug/L	-2		
Vanadium	200.0	232.0	ug/L	16	20	
Zinc	100.0	95.05	ug/L	-5	20	

ISTD (ICALBLK c3112003)	ICALBLK Abund	Abund	%Drift
Scandium	383420	334582	-12.74
Germanium	54518	57390	5.27

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56130353 Instrument: MET05 Agilent ICP-MS Begun: 31-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	c3112001	TUN				31-MAR-2006 12:33	1.0	1.0				1	
003	c3112003	ICALBLK	std-blk			31-MAR-2006 12:45	1.0	1.0				2	
004	c3112004	ICAL	CS1			31-MAR-2006 12:50	1.0	1.0				3	
005	c3112005	ICAL	CS2			31-MAR-2006 12:56	1.0	1.0				4	
006	c3112006	ICAL	CS3			31-MAR-2006 13:01	1.0	1.0				5	
007	c3112007	ICAL	CS4			31-MAR-2006 13:07	1.0	1.0				6	
008	c3112008	ICAL	CS5			31-MAR-2006 13:12	1.0	1.0				7	
009	c3112009	ICAL	CS6			31-MAR-2006 13:18	1.0	1.0				8	
010	c3112010	ICV				31-MAR-2006 13:23	1.0	1.0			1	9 2	
011	c3112011	ICB				31-MAR-2006 13:29	1.0	1.0	1		1	2	
012	c3112012	ICSA				31-MAR-2006 13:34	1.0	1.0			1	10 2	7:CA=306500
015	c3112015	ICSAB				31-MAR-2006 13:54	1.0	1.0			1	11 2	11:CA=307800
017	c3112017	BLANK	QC333334	111759	Filtra	31-MAR-2006 14:05	1.0	1.0			1	2	
018	c3112018	BS	QC333335	111759	Filtra	31-MAR-2006 14:10	1.0	1.0			1	2	
019	c3112019	BSD	QC333336	111759	Filtra	31-MAR-2006 14:16	1.0	1.0			1	2	
020	c3112020	MSS	185586-015	111759	Filtra	31-MAR-2006 14:21	20.0	1.0			1	2	804
021	c3112021	SER	QC333339	111759	Filtra	31-MAR-2006 14:27	100.0	1.0			1	2	
022	c3112022	MS	QC333337	111759	Filtra	31-MAR-2006 14:32	20.0	1.0			1	2	
023	c3112023	MSD	QC333338	111759	Filtra	31-MAR-2006 14:38	20.0	1.0		1	1	2	
024	c3112024	PDS	QC333340	111759	Filtra	31-MAR-2006 14:43	20.0	1.0		1	1	12 2	
026	c3112026	CCV				31-MAR-2006 14:55	1.0	1.0			1	13 2	
028	c3112028	CCB				31-MAR-2006 15:06	1.0	1.0			1	2	
029	c3112029	SAMPLE	185586-016	111759	Filtra	31-MAR-2006 15:11	20.0	1.0			1	2	
030	c3112030	SAMPLE	185586-009	111759	Filtra	31-MAR-2006 15:17	1.0	1.0	1		1	2	1:CA=29940.0
031	c3112031	X	185586-010	111759	Filtra	31-MAR-2006 15:23	1.0	1.0	3		1	2	3:NA=42740.0
033	c3112033	SAMPLE	185586-011	111759	Filtra	31-MAR-2006 15:34	1.0	1.0	2		1	2	2:MG=77370.0
034	c3112034	SAMPLE	185586-017	111759	Filtra	31-MAR-2006 15:39	1.0	1.0	2		1	2	2:NA=37560.0
035	c3112035	SAMPLE	185586-010	111759	Water	31-MAR-2006 15:45	1.0	1.0	9		1	2	9:FE=116200
036	c3112036	SAMPLE	185586-010	111759	Water	31-MAR-2006 15:50	100.0	1.0	2		1	2	2:AL=665.400
037	c3112037	SAMPLE	185586-011	111759	Water	31-MAR-2006 15:56	1.0	1.0	6		1	2	6:MG=56490.0
038	c3112038	SAMPLE	185586-011	111759	Water	31-MAR-2006 16:01	200.0	1.0			1	2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2309 13=S2897

Analyst: Mejia Date: 3/31/6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56130353 Instrument: MET05 Agilent ICP-MS Begun: 31-MAR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
040	c3112040	CCV				31-MAR-2006 16:12	1.0	1.0			1	13 2	
042	c3112042	CCB				31-MAR-2006 16:24	1.0	1.0			1	2	
043	c3112043	SAMPLE	185586-010	111759	Filtra	31-MAR-2006 16:29	1.0	1.0	3		1	2	3:NA=43520.0
044	c3112044	SAMPLE	185586-010	111759	Water	31-MAR-2006 16:35	200.0	1.0	1		1	2	1:AL=336.600
045	c3112045	SAMPLE	185586-010	111759	Water	31-MAR-2006 16:40	500.0	1.0			1	2	
046	c3112046	CCV				31-MAR-2006 16:46	1.0	1.0			1	13 2	
048	c3112048	CCB				31-MAR-2006 16:57	1.0	1.0			1	2	
049	c3112049	ICSA				31-MAR-2006 17:03	1.0	1.0			1	10 2	7:CA=297000
050	c3112050	ICSAB				31-MAR-2006 17:08	1.0	1.0			1	11 2	11:CA=312800

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Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2309 13=S2897

Analyst: Mellen Date: 3/31/6

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 24-MAR-2006
Sequence: 56120449 (c2415)
Instrument ID: MET05

ICALBLK Filename: c2415003
Date Analyzed: 24-MAR-2006
Time Analyzed: 15:41

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD	988200	562292	180440	1368410	1333700	2209951
LOWER LIMIT	296460	168688	54132	410523	400110	662985
UPPER LIMIT	1185840	674751	216528	1642092	1600440	2651941

TYPE	SAMPLE	#						
ICB		012	969137	523398	172708	1267032	1243505	2044909
ICSA		013	779542	491304	146225	1095335	938748	1884957
BLANK	QC332055	017	933067	541233	170988	1308727	1286688	2105243
BS	QC332056	018	897053	488852	154003	1104449	1037053	1781347
MSS	185457-016	020	819406	482531	141807	1030667	900572	1765286
SER	QC332060	021	936674	522697	165046	1193875	1135870	2009167
MSS	185457-016	022	972773	540838	172188	1259288	1198188	2057726
SER	QC332060	023	1001688	538308	173595	1273316	1243303	2040529
CCV		024	974542	535254	170147	1196955	1140941	1953272
CCB		026	980518	523143	167279	1239501	1206515	1978534
MSS	185457-016	027	806947	461082	138153	997944	862388	1715177
MS	QC332058	028	826277	474200	140445	992258	872644	1716779
MSD	QC332059	029	805980	471418	137778	993201	870711	1722383
PDS	QC332061	030	821766	471081	136868	982461	847810	1690964
MS	QC332058	031	957831	515238	167168	1211204	1164650	1958101
MSD	QC332059	032	969156	521671	167835	1222229	1164139	1964258
PDS	QC332061	033	952804	517857	166433	1203865	1172058	1960401
BSD	QC332057	035	933562	484101	150456	1065375	995106	1724214
SAMPLE	185457-001	036	819884	451233	138146	983996	884557	1652640
SAMPLE	185457-002	037	895816	484359	146671	1063074	956973	1777156
CCV		039	953180	509681	163182	1155967	1119152	1914650
CCB		041	942974	497013	160729	1193739	1163252	1873462
SAMPLE	185457-005	042	806019	437862	124970	841256	747042	1495271
SAMPLE	185457-006	043	868741	454569	129494	890825	773937	1527506
SAMPLE	185457-007	044	874780	457021	134590	956278	829011	1564727
SAMPLE	185457-008	045	867298	452567	133313	938923	819560	1557071

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* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 24-MAR-2006
Sequence: 56120449 (c2415)
Instrument ID: MET05

ICALBLK Filename: c2415003
Date Analyzed: 24-MAR-2006
Time Analyzed: 15:41

TYPE	SAMPLE	#							
SAMPLE	185457-001	046	983059	527842	167721	1252890	1206212	2000194	
SAMPLE	185457-002	047	992755	517129	165457	1223679	1185281	1966397	
SAMPLE	185457-005	048	969374	513081	163668	1198046	1153775	1947077	
SAMPLE	185457-006	049	976815	507042	162749	1185074	1148658	1944004	
SAMPLE	185457-007	050	944914	495280	160109	1184926	1158760	1906340	
SAMPLE	185457-008	051	962775	502014	162041	1208567	1178110	1934641	
CCV		053	938741	499396	159991	1139949	1112291	1894655	
CCB		055	948372	501028	161896	1226800	1216616	1962262	
ICSA		056	754441	444889	133804	996236	855786	1688332	
BLANK	QC331831	060	887221	482077	154230	1177455	1164861	1857360	
BS	QC331832	061	876773	464330	145417	1051301	994238	1682322	
BSD	QC331833	062	861659	464521	145047	1051915	995756	1681989	
MSS	185408-008	064	853151	464363	142451	1050691	994561	1683203	
SER	QC331838	065	881915	471430	151282	1126374	1129253	1816009	
MS	QC331836	066	822095	441946	138016	984556	943918	1614616	807
MSD	QC331837	067	822840	449326	139344	997096	944252	1634199	
CCV		069	867540	477594	152734	1090823	1069936	1793122	
CCB		071	892991	474552	152380	1132829	1123713	1801393	
PDS	QC331839	073	821562	448903	137575	984025	903300	1587489	
MSS	185408-010	074	828272	445228	139365	1018084	941147	1653171	
MS	QC331834	075	793752	442179	137015	990889	921313	1652132	
MSD	QC331835	076	804277	441422	136827	996343	925088	1657566	
MSS	185408-008	077	862998	471269	151144	1147421	1140857	1835833	
SER	QC331838	078	872665	465123	150431	1144231	1142246	1828186	
MS	QC331836	079	878168	467273	150447	1143427	1120530	1803292	
MSD	QC331837	080	885873	466337	150048	1122809	1128941	1815370	
PDS	QC331839	081	876342	471766	152091	1151606	1142680	1842286	
CCV		083	864072	469597	149631	1083146	1052352	1762150	
CCB		085	872491	466362	149948	1134348	1121464	1786827	
MSS	185408-010	086	862140	464602	150047	1119899	1110489	1790612	
MS	QC331834	087	870795	464299	150027	1138492	1115658	1798186	
MSD	QC331835	088	870914	465487	150382	1135587	1128329	1808531	

* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 24-MAR-2006
Sequence: 56120449 (c2415)
Instrument ID: MET05

ICALBLK Filename: c2415003
Date Analyzed: 24-MAR-2006
Time Analyzed: 15:41

TYPE	SAMPLE	#						
SAMPLE	185408-006	089	779910	434417	134605	1000537	937490	1673153
SAMPLE	185408-007	090	778389	436320	135509	1011547	967045	1680540
SAMPLE	185408-009	091	792816	445703	138222	1062007	1040861	1765889
SAMPLE	185408-011	092	746313	439046	136117	1052751	1007617	1778780
SAMPLE	185408-006	093	804469	479062	152131	1214168	1224563	1988922
SAMPLE	185408-007	094	814321	478859	152621	1216094	1217743	1992688
SAMPLE	185408-009	095	807417	471113	149594	1202599	1210871	1972224
CCV		097	850311	475066	150588	1119011	1086373	1851792
CCB		099	839745	456637	148479	1142762	1144155	1848352
SAMPLE	185408-011	100	815768	458486	148813	1155942	1139220	1851356
SAMPLE	185463-001	101	757363	425854	135127	1041515	1030825	1710206
SAMPLE	185463-001	102	797634	457489	147108	1164342	1183790	1901204
BLANK	QC331981	104	802593	457467	146054	1159678	1170443	1890366
BS	QC331982	105	788112	430226	136577	1002517	976562	1654540
BSD	QC331983	106	817709	434809	137135	1018464	964466	1655119
CCV		107	839407	458026	146831	1077183	1042410	1762605
CCB		109	841646	456716	146645	1137654	1126462	1813376
MSS	185408-002	110	726140	416296	125819	924997	844072	1585680
SER	QC331986	111	795657	447318	142353	1092646	1059218	1791620
MS	QC331984	112	721020	417512	124987	932106	835838	1585923
MSD	QC331985	113	729081	422214	126492	943589	843430	1608086
PDS	QC331987	114	732944	421383	125876	941699	837344	1582769
MSS	185408-002	115	821297	459594	146709	1134817	1121528	1815054
SER	QC331986	116	802150	454932	146103	1154993	1146332	1857097
MS	QC331984	117	834463	457260	146268	1124000	1102511	1795529
MSD	QC331985	118	821924	446850	144312	1095886	1083850	1765997
PDS	QC331987	119	827809	454117	144977	1098643	1077590	1760144
CCV		121	806356	440073	142136	1039855	1008839	1706144
CCB		123	830886	449947	144623	1113418	1102799	1771621
SAMPLE	185408-001	124	709028	417409	127520	979206	893168	1638904
SAMPLE	185408-003	125	701819	423482	128463	1001801	915296	1711931
SAMPLE	185408-004	126	733003	414004	126424	953265	870120	1587071

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* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 24-MAR-2006
Sequence: 56120449 (c2415)
Instrument ID: MET05

ICALBLK Filename: c2415003
Date Analyzed: 24-MAR-2006
Time Analyzed: 15:41

TYPE	SAMPLE	#							
SAMPLE	185408-005	127	739588	410428	124955	934629	848657	1545016	
SAMPLE	185408-001	128	822966	448691	144346	1110968	1103256	1774551	
SAMPLE	185408-003	129	811888	443553	142886	1100351	1082951	1766579	
SAMPLE	185408-004	130	786395	431762	137826	1041526	1040155	1673719	
SAMPLE	185408-005	131	828836	452710	144081	1094699	1080384	1759164	
CCV		133	813402	443206	140547	1028681	979894	1681265	
CCB		135	841360	445097	143634	1086631	1083950	1738890	
ICSA		137	674836	406723	121976	887703	772371	1536515	
SAMPLE	185511-001	140	758925	428789	128973	951252	851467	1556345	
SAMPLE	185511-002	141	774019	443609	132850	1007662	915326	1670631	
SAMPLE	185511-009	142	775011	435018	127055	919088	800522	1517413	
SAMPLE	185511-010	143	809101	433561	128827	909109	808592	1500044	
SAMPLE	185511-011	144	834344	444979	134791	987084	888617	1598726	
SAMPLE	185511-012	145	879524	454859	139927	1050074	1003783	1625874	809
SAMPLE	185511-013	146	889604	448738	139482	1047780	977452	1630266	
CCV		148	898686	474239	147941	1054434	995910	1697276	
CCB		150	928026	470981	147653	1106829	1054733	1695829	
SAMPLE	185511-001	151	914571	468593	147785	1095844	1048000	1695234	
SAMPLE	185511-002	152	898120	465039	146805	1081241	1031908	1681694	
SAMPLE	185511-009	153	892820	477480	148386	1104241	1056783	1743078	
SAMPLE	185511-010	154	870000	449027	142702	1061851	1016986	1643022	
SAMPLE	185511-011	155	893272	463183	146295	1080807	1049763	1712058	
SAMPLE	185511-012	156	845198	439973	139813	1034738	1013321	1637294	
SAMPLE	185511-013	157	859140	482603	155303	1210884	1197044	1922512	
CCV		159	836473	493671	155900	1140911	1105121	1864226	
CCB		161	838678	505026	161662	1282761	1249274	2030082	
ICSA		162	699133	407378	123996	865103	757128	1506762	
SAMPLE	185586-001	165	771774	402916	112089	748614	641049	1285182	
SAMPLE	185586-002	166	819412	416153	116812	770036	678518	1285819	
SAMPLE	185586-003	167	804969	418760	119801	806652	731128	1384785	
SAMPLE	185586-018	168	774275	410904	116904	787970	703842	1336567	
SAMPLE	185586-019	169	827801	431607	125902	859952	772891	1461643	

* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 24-MAR-2006
Sequence: 56120449 (c2415)
Instrument ID: MET05

ICALBLK Filename: c2415003
Date Analyzed: 24-MAR-2006
Time Analyzed: 15:41

TYPE	SAMPLE	#							
SAMPLE	185586-020	170	825135	428246	121478	799779	712619	1377815	
SAMPLE	185586-021	171	843481	425377	124694	821892	761419	1398218	
SAMPLE	185586-022	172	803525	425996	122775	827060	767913	1434556	
CCV		174	892339	468084	138839	979740	906100	1564977	
CCB		176	877911	451821	137616	1006582	945762	1555180	
SAMPLE	185586-023	177	862123	410613	122842	822762	772588	1357276	
SAMPLE	185586-024	178	742583	416797	124875	900069	833040	1506763	
SAMPLE	185586-025	179	689219	413677	125880	978651	901403	1635791	
SAMPLE	185586-026	180	698318	397434	122510	958796	909958	1617639	
SAMPLE	185586-001	181	741263	417299	134961	1083737	1102542	1781481	
SAMPLE	185586-002	182	737925	451771	142841	1149286	1148213	1865982	
SAMPLE	185586-003	183	786967	441082	138181	1072986	1058515	1708180	
SAMPLE	185586-018	184	777445	448020	140428	1114324	1096072	1793461	
CCV		185	1069484	756141*	185899	1355459	1186577	2005822	810
CCB		187	867621	468086	141351	1068398	1040296	1678665	
ICSA		188	692065	386620	109304	745623	635742	1283214	

* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 25-MAR-2006
Sequence: 56121987 (c2517)
Instrument ID: MET05

ICALBLK Filename: c2517003
Date Analyzed: 25-MAR-2006
Time Analyzed: 17:19

		IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD		1139817	634190	133389	777897	641813	1132187
LOWER LIMIT		341945	190257	40017	233369	192544	339656
UPPER LIMIT		1367780	761028	160066	933476	770176	1358624

TYPE	SAMPLE	#					
ICB		014	1100289	603776	131176	768003	612511	1077984
ICSA		016	847328	453404	108022	613455	437540	922108
BLANK	QC332965	019	1064766	529164	128170	759134	636640	1114398
BS	QC332966	020	1034636	526969	120989	687214	550516	1019951
BSD	QC332967	021	1033565	518353	121469	686753	550730	1019028
MSS	185408-008	022	1043883	561740	115526	665892	527756	1001708
SER	QC332972	023	1191716	619784	134517	838967	667641	1184835
MSS	185408-008	024	1199627	626760	133411	778782	639834	1116551
SER	QC332972	025	1118014	588973	133470	840700	664124	1167213
CCV		026	1061300	550830	129717	771565	621164	1132226
CCB		029	1071784	544066	127891	761628	639000	1115718
MS	QC332968	030	992000	536324	112787	630422	498666	953394
MSD	QC332969	031	1019292	550554	117683	680358	534302	1036027
PDS	QC332973	032	1010044	520381	116904	665591	528978	1022141
MS	QC332968	033	1114291	544679	130842	796482	650552	1161138
MSD	QC332969	034	1140072	563072	134680	817252	667189	1186600
PDS	QC332973	035	1110325	560766	130309	776050	631539	1127296
MSS	185408-010	036	1026976	511766	117670	676924	520117	1018805
SAMPLE	185408-009	037	1156295	607332	126284	744852	589059	1133168
SAMPLE	185408-009	038	1123418	540759	131473	784231	653144	1157986
CCV		040	1102280	550965	130911	781234	625052	1151163
CCB		043	1120370	525881	131000	764880	640607	1122890
MS	QC332970	044	1031101	527108	115342	653925	502396	998840
MSD	QC332971	045	1025567	522594	116074	657178	509076	1021405
MSS	185408-010	046	1130567	569653	131098	804607	638864	1143601
MS	QC332970	047	1137225	593776	131928	770956	628031	1125714
MSD	QC332971	048	1153398	591680	131637	777760	624006	1128404
SAMPLE	185408-011	049	1155064	601008	123855	700861	528161	1073155

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

equence Date: 25-MAR-2006 ICALBLK Filename: c2517003
Sequence: 56121987 (c2517) Date Analyzed: 25-MAR-2006
nstrument ID: MET05 Time Analyzed: 17:19

TYPE	SAMPLE	#						
SAMPLE	185408-011	050	1096851	535538	130875	794603	644178	1158285
ICSA		051	845474	432354	103499	618021	443853	958181
CCV		059	1024016	484073	120192	728547	618298	1110484
CCB		062	1073848	503446	120349	748345	640870	1106379
SAMPLE	185586-023	063	1033519	496600	110171	634488	505069	916126
SAMPLE	185586-024	064	1003952	503378	109916	635223	492453	977095
SAMPLE	185586-025	065	1076339	547108	115716	687481	532183	1054921
SAMPLE	185586-026	066	1014799	502436	110879	657173	511573	1025592
SAMPLE	185586-001	067	1106859	527352	126202	825420	654958	1172338
SAMPLE	185586-002	068	1075630	502123	124489	790379	647049	1150774
SAMPLE	185586-003	069	1108457	523406	123937	768266	638824	1132078
SAMPLE	185586-018	070	1051171	492958	121344	742974	622473	1115955
SAMPLE	185586-019	071	1092966	524023	122073	760988	628221	1122662
CCV		073	1034687	540977	124388	745305	617623	1108734
CCB		076	1111324	541147	126089	778141	637173	1122658
SAMPLE	185586-020	077	1101515	559507	124136	732795	598941	1080835
SAMPLE	185586-021	078	1079764	554748	124928	735298	608022	1081508
SAMPLE	185586-022	079	1100320	529753	123205	734005	608361	1084350
SAMPLE	185586-023	080	1117494	554799	124681	766542	637048	1088890
SAMPLE	185586-024	081	1110840	533589	126329	759816	618678	1105938
SAMPLE	185586-025	082	1064157	536289	123558	736465	608239	1094471
SAMPLE	185586-026	083	1060691	536452	120982	715592	593698	1046999
SAMPLE	185558-011	084	938889	470833	103240	603207	455586	937673
SAMPLE	185558-012	085	1031786	527126	113277	674573	522376	1078917
SAMPLE	185558-013	086	987628	477004	106142	646764	497393	1035951
CCV		088	1065469	535639	123218	731747	604871	1142058
CCB		090	1133391	541140	126441	782619	650301	1150187
SAMPLE	185558-014	091	966173	474765	103740	615431	473453	1005652
SAMPLE	185558-015	092	1025490	487989	112790	691510	552233	1094462
SAMPLE	185558-016	093	974594	457731	105312	654121	525931	1071150
SAMPLE	185558-017	094	962734	431148	103646	645705	508317	1044139
SAMPLE	185558-018	095	941715	460306	104455	632842	480899	1015421
CCV		097	1015278	524872	121455	730659	601084	1130387
CCB		099	1073894	501583	122881	773944	646434	1136659

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

equence Date: 25-MAR-2006 ICALBLK Filename: c2517003
Sequence: 56121987 (c2517) Date Analyzed: 25-MAR-2006
nstrument ID: MET05 Time Analyzed: 17:19

TYPE	SAMPLE	#						
SAMPLE	185558-019	101	998877	508950	107524	627578	477858	973546
SAMPLE	185558-020	102	1026070	543407	109810	643983	492251	1004414
SAMPLE	185558-022	103	936320	491878	103309	588855	443362	881421
SAMPLE	185558-026	104	989379	482734	109142	653350	500539	1023483
SAMPLE	185558-027	105	951310	457627	101378	605060	460391	972739
SAMPLE	185558-011	106	1029229	469984	114470	709909	605896	1107181
SAMPLE	185558-012	107	1095114	497816	121072	758346	647460	1175114
SAMPLE	185558-013	108	1059342	485697	117278	739376	625489	1133701
SAMPLE	185558-014	109	1030886	465997	115881	732764	621571	1138465
CCV		111	1035614	505270	119610	706930	584167	1106860
CCB		113	1085746	521946	123756	769437	627016	1123088
SAMPLE	185558-015	114	1134878	521394	126520	779096	627647	1131526
SAMPLE	185558-016	115	1095074	543432	123244	734051	607732	1099518
SAMPLE	185558-017	116	1088659	537168	124030	781390	613656	1117561
SAMPLE	185558-018	117	1105039	540994	124414	755916	601302	1100977
SAMPLE	185558-019	118	1088143	548025	123752	737793	604614	1091624
SAMPLE	185558-020	119	1075160	538360	122065	716995	588888	1086840
SAMPLE	185558-022	120	1085105	522046	123568	725271	596264	1086375
SAMPLE	185558-026	121	1128536	568986	126885	775546	620776	1134415
SAMPLE	185558-027	122	1059878	514099	119882	713993	585547	1061348
CCV		124	1047439	534967	123404	704117	572928	1084855
CCB		126	1086521	548533	125226	762596	614903	1121785
ICSA		127	785562	401529	93809	541410	404787	796106
BLANK	QC332485	131	1109013	503588	116896	742983	605757	1054134
BS	QC332486	132	1129867	566847	113451	653972	506599	972476
BSD	QC332487	133	1090976	516760	111145	628057	484772	925371
MSS	185414-001	134	1080699	552926	112012	653971	495559	969726
SER	QC332490	135	1184114	584736	124327	755739	595066	1100805
MS	QC332488	136	1074613	522435	110997	617051	471270	898160
MSD	QC332489	137	1074468	553351	113192	632719	475916	916593
CCV		139	1128178	586467	127269	771339	587469	1113975
CCB		141	1158421	600105	128008	783400	620493	1121618
SAMPLE	185414-002	146	1006267	503321	105692	581218	448133	789951
SAMPLE	185414-003	147	1041575	543342	109519	623252	461800	920271

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

equence Date: 25-MAR-2006
Sequence: 56121987 (c2517)
nstrument ID: MET05

ICALBLK Filename: c2517003
Date Analyzed: 25-MAR-2006
Time Analyzed: 17:19

TYPE	SAMPLE	#						
SAMPLE	185414-004	148	1061828	515095	109330	619423	465549	862996
SAMPLE	185414-005	149	1059787	534523	109735	615933	457490	926324
SAMPLE	185414-006	150	1039427	551037	108970	620303	464166	843306
SAMPLE	185414-007	151	1059140	518935	111033	636004	474277	917576
SAMPLE	185414-008	152	1057991	528535	109107	610439	457862	901187
SAMPLE	185414-009	153	1030462	546416	108849	592543	433000	866379
SAMPLE	185414-010	154	1054794	550093	110535	608027	452708	872948
CCV		156	1103389	564782	123746	703884	554114	1062444
CCB		158	1124218	560923	124976	711148	580933	1051716
SAMPLE	185414-011	160	1039935	558760	110786	596281	446236	843153
SAMPLE	185414-012	161	1062006	556038	111742	616647	464280	859365
SAMPLE	185414-013	162	1067479	537821	109416	602933	457781	841861
SAMPLE	185683-001	163	1020626	539505	108651	606477	455642	889775
SAMPLE	185684-001	164	1107865	598494	115126	641616	482082	919489
SAMPLE	185685-001	165	1060180	531249	109897	606905	452032	905917
SAMPLE	185686-001	166	1060689	549601	110533	617493	458282	890871
SAMPLE	185687-001	167	1209277	665033	127131	714725	535124	1034461
SAMPLE	185688-001	168	1159589	641444	119628	669786	501019	966643
CCV		170	1146258	627622	131030	765545	578214	1113343
CCB		172	1203551	609504	128322	755770	594769	1097182
CCV		179	1110785	551473	120272	702223	582476	1095094
CCB		181	1107452	534832	118854	713139	597288	1066141
ICSA		182	844702	440154	97686	551046	411258	803968
CCV		186	1097983	514757	121934	729966	579541	1089971
CCB		188	1153515	542398	124282	761284	622558	1102885

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 29-MAR-2006
Sequence: 56127810 (c2918)
Instrument ID: MET05

ICALBLK Filename: c2918003
Date Analyzed: 29-MAR-2006
Time Analyzed: 18:22

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD	41947	94312	22332	148992	129428	195886
LOWER LIMIT	12584	28294	6699	44698	38828	58766
UPPER LIMIT	50336	113175	26798	178791	155313	235063

TYPE	SAMPLE	#						
ICB		012	45580	97062	22977	156905	140331	208840
ICSA		013	33367	84656	21020	129854	107641	179780
SAMPLE	185586-023	016	37670	87486	21389	136127	112361	175848
SAMPLE	185586-024	017	33372	85206	21170	130446	113976	174521
SAMPLE	185586-025	018	31983	78666	20142	128988	112430	171574
SAMPLE	185586-026	019	34676	82626	20283	125427	102328	164236
SAMPLE	185586-001	020	40580	95256	23395	157492	141396	207201
SAMPLE	185586-002	021	49086	102068	23767	158810	138042	206109
SAMPLE	185586-003	022	46367	97496	23524	158535	141148	210466
SAMPLE	185586-018	023	52034*	103190	24006	154960	133350	201632
CCV		024	53592*	102481	24204	155539	139368	206702
CCB		026	50127	99464	23352	162415	153910	213979
ICSA		027	38770	89176	21687	128505	114491	183483

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* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 29-MAR-2006
Sequence: 56128053 (c2922)
Instrument ID: MET05

ICALBLK Filename: c2922003
Date Analyzed: 29-MAR-2006
Time Analyzed: 22:25

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD	67444	127348	31183	222466	206689	300196
LOWER LIMIT	20233	38204	9355	66740	62007	90059
UPPER LIMIT	80933	152817	37419	266959	248027	360235

TYPE	SAMPLE	#						
ICB		011	69680	123167	30024	212045	189246	279562
ICSA		013	58952	117554	29377	187517	159001	264520
SAMPLE	185586-019	016	62570	119522	29754	204314	179909	271560
SAMPLE	185586-020	017	61049	116219	28846	199982	174354	264454
SAMPLE	185586-021	018	66211	120429	29626	203644	179226	269441
SAMPLE	185586-022	019	56064	108072	27443	190653	165106	250311
SAMPLE	185586-023	020	56172	108540	27446	193251	165622	252048
SAMPLE	185586-024	021	57720	108863	27304	187709	162718	247092
SAMPLE	185586-025	022	55993	105933	26807	184504	159884	242479
SAMPLE	185586-026	023	55663	105043	26683	184758	158823	242162
CCV		024	56420	108174	27341	183561	156786	247189
CCB		026	57462	106294	26321	185612	159122	240838
ICSA		031	54177	103420	25526	157023	123914	216082

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 30-MAR-2006
Sequence: 56129329 (c3019)
Instrument ID: MET05

ICALBLK Filename: c3019003
Date Analyzed: 30-MAR-2006
Time Analyzed: 19:40

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD	265097	311197	72358	387021	340664	488547
LOWER LIMIT	79529	93359	21707	116106	102199	146564
UPPER LIMIT	318116	373436	86830	464426	408797	586256

TYPE	SAMPLE	#						
ICB		011	265406	315614	72201	391894	347289	505220
ICSA		012	215473	281228	66722	334712	293927	455234
BLANK	QC333120	015	224601	268468	62183	340044	310901	450606
BS	QC333121	016	235954	289419	67025	354350	327574	478093
BSD	QC333122	017	240292	294052	67453	356186	338631	490137
MSS	185562-001	018	221132	276573	63191	316728	282176	436361
SER	QC333125	019	246089	308574	70255	359322	329712	497900
MS	QC333123	020	228559	282306	63534	322545	292746	450422
MSD	QC333124	021	223294	278891	63157	316291	288120	446978
PDS	QC333126	022	224090	282048	63822	323555	297260	464993
CCV		024	258038	308953	70893	373858	357519	513713
CCB		026	268960	310314	70044	392056	372888	520313
MSD	QC333509	027	230352	282656	63462	330716	312066	461801
SAMPLE	185681-003	028	222710	270546	62050	323762	308933	454448
SAMPLE	185681-005	029	213014	268014	60952	317579	312346	452899
SAMPLE	185562-002	030	230359	274060	60333	327451	318003	467852
SAMPLE	185562-003	031	223529	274764	59757	329101	324382	467748
SAMPLE	185681-002	032	217297	260484	58127	292445	277021	426352
CCV		034	252090	295638	67122	367917	373623	519806
CCB		036	254666	287393	64472	372456	371368	516328
ICSA		037	216717	260167	59403	317414	315944	471969
SAMPLE	185586-001	040	200780	230459	51456	291416	294327	429111
SAMPLE	185586-002	041	206369	235102	51878	300388	308490	440877
SAMPLE	185586-003	042	205116	232608	51889	298469	307563	436416
SAMPLE	185586-018	043	206650	234496	52014	302999	306563	445761
SAMPLE	185586-019	044	212998	242347	53880	307638	323153	455729
SAMPLE	185586-020	045	206943	236313	52499	297741	307419	446481
SAMPLE	185586-021	046	215291	238984	53497	309936	321294	455108

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 30-MAR-2006
Sequence: 56129329 (c3019)
Instrument ID: MET05

ICALBLK Filename: c3019003
Date Analyzed: 30-MAR-2006
Time Analyzed: 19:40

TYPE	SAMPLE	#						
SAMPLE	185586-022	047	208110	238360	52141	306693	320048	454253
CCV		049	227072	251503	56798	333865	353301	488087
CCB		050	237479	256726	57435	353212	372094	497827
BLANK	QC332048	054	230909	243998	55464	336054	354439	480197
BS	QC332049	055	212684	229337	52748	303531	324766	439627
BSD	QC332050	056	213223	226976	52688	305041	323343	447888
MSS	185438-001	057	203856	224761	49870	299972	317293	432322
MS	QC332051	059	197961	223546	49791	288487	305806	425047
MSD	QC332052	060	199950	228410	50594	296212	312199	438534
PDS	QC332054	061	197144	222318	49002	289512	310260	429258
SAMPLE	185438-002	062	200827	220578	48327	295650	311421	422161
SAMPLE	185438-003	063	199511	217368	47805	291013	303544	420576
CCV		065	218271	237079	54949	318437	336009	460136
CCB		067	217217	230500	52231	320087	332083	454170
SAMPLE	185438-004	068	196087	213816	47493	288436	302767	408910
SAMPLE	185438-005	069	250130	216786	48118	289285	299308	415508
SAMPLE	185438-006	070	197968	218589	48677	292068	303964	417882
SAMPLE	185438-007	071	197089	213162	46996	288637	301043	411696
SAMPLE	185438-008	072	190551	207988	46305	280835	291241	403072
SAMPLE	185438-009	073	195589	209564	46497	284380	298361	402229
CCV		075	206423	221000	51499	303242	310638	440666
CCB		077	208026	218129	49856	306988	314777	430017
SAMPLE	185438-010	078	186463	206684	45476	275376	282182	389539
SAMPLE	185438-011	079	191718	206987	45844	276956	293849	395331
SAMPLE	185438-012	080	186279	206876	45887	277788	287343	398554
SAMPLE	185438-013	081	192413	210846	46542	281442	294682	400614
SAMPLE	185438-014	082	192994	206707	45804	279717	287266	403359
SAMPLE	185438-015	083	191983	204778	45663	275127	286314	392071
SAMPLE	185438-016	084	191747	207616	45826	273407	285899	394008
SAMPLE	185438-017	085	183560	197380	43808	264172	269750	377949
CCV		087	194934	212512	49120	289983	309187	416719
CCB		089	208994	215848	49562	302817	307384	419796
ICSA		090	184428	204218	47881	265316	262244	395901
BLANK	QC333334	095	210446	217712	49260	300715	314532	416530

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 30-MAR-2006
Sequence: 56129329 (c3019)
Instrument ID: MET05

ICALBLK Filename: c3019003
Date Analyzed: 30-MAR-2006
Time Analyzed: 19:40

TYPE	SAMPLE	#						
BS	QC333335	096	193488	203878	46511	273435	281950	393542
BSD	QC333336	097	196874	207990	48173	281003	282650	409096
MSS	185586-015	098	197839	214639	48335	284186	281306	411254
SER	QC333339	099	212282	226687	52245	309611	313590	438380
MS	QC333337	100	189352	211268	47621	271246	277049	401434
MSD	QC333338	101	187369	205288	46323	265921	268756	396521
PDS	QC333340	102	184346	199339	44880	258562	262591	385467
CCV		104	198899	208736	48575	282725	287960	410833
CCB		106	203301	210384	47860	293282	299803	407728
MSS	185586-015	107	200427	208256	48151	289168	292062	403586
MS	QC333337	109	202974	211002	48702	291248	295556	405289
MSD	QC333338	110	202923	211039	48198	288473	293971	407832
PDS	QC333340	111	200061	207653	47688	287818	294444	403374
SAMPLE	185586-016	112	183630	196267	44259	256055	250712	376353
SAMPLE	185586-004	113	177033	193347	43137	253302	243239	365307
SAMPLE	185586-005	114	173514	187859	41854	245693	235748	355949
SAMPLE	185586-006	115	176099	193143	42938	250732	246060	366092
SAMPLE	185586-007	116	189976	193029	43874	268116	278238	371117
CCV		118	187327	194928	45232	261888	268248	381584
CCB		120	194484	198118	45098	274760	286703	389540
SAMPLE	185586-009	121	182831	188578	43027	252655	260186	365374
SAMPLE	185586-010	122	182348	193406	43964	257824	265070	377442
SAMPLE	185586-011	123	184797	202312	45658	266514	269379	396081
SAMPLE	185586-017	124	189450	202809	45747	271532	287624	398448
SAMPLE	185586-010	125	194208	337386	47216	264970	276066	404769
SAMPLE	185586-011	126	181626	240293	46586	263212	271229	400506
SAMPLE	185586-016	127	202532	220704	51895	305013	328754	440658
SAMPLE	185586-004	128	204257	220101	51539	309060	325949	438706
SAMPLE	185586-005	129	201402	219004	51164	303662	321889	433234
SAMPLE	185586-006	130	205820	224537	52290	310800	331574	440646
CCV		132	197276	212389	49856	289714	311140	425457
CCB		134	202931	215460	49367	301257	320368	429308
SAMPLE	185586-007	135	203589	212976	49647	298811	317771	426852
SAMPLE	185586-009	136	205473	215676	50054	301498	322972	431541

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 30-MAR-2006
Sequence: 56129329 (c3019)
Instrument ID: MET05

ICALBLK Filename: c3019003
Date Analyzed: 30-MAR-2006
Time Analyzed: 19:40

TYPE	SAMPLE	#						
SAMPLE	185586-010	137	204952	216074	50566	302350	323391	432083
SAMPLE	185586-011	138	203543	220313	51104	304670	319647	436776
SAMPLE	185586-017	139	207456	220473	51420	304865	323397	433647
SAMPLE	185586-010	140	206389	226697	50717	298765	320626	431776
SAMPLE	185586-011	141	203972	219294	50425	299067	314397	432431
CCV		143	202034	221097	51709	295518	315804	432752
CCB		145	208591	222238	51179	306164	329741	436522
SER	QC332053	147	199389	221348	51031	296951	312088	417386
SAMPLE	185681-002	149	196153	223508	51622	276840	283077	404923
SAMPLE	185681-002	150	204864	232861	53766	301043	305404	416302
CCV		152	191473	223424	53138	274114	266072	380223
CCB		154	198930	223816	52216	280375	272181	374380
ICSA		155	154550	197072	47394	229919	210658	325120

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 31-MAR-2006
Sequence: 56130353 (c3112)
Instrument ID: MET05

ICALBLK Filename: c3112003
Date Analyzed: 31-MAR-2006
Time Analyzed: 12:45

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD	922427	383420	54518	304020	209143	317474
LOWER LIMIT	276728	115026	16355	91206	62743	95242
UPPER LIMIT	1106913	460104	65422	364823	250972	380969

TYPE	SAMPLE	#					
ICB		011	990586	390440	55845	312891	217551	319356
ICSA		012	730913	319079	54726	243495	135901	272546
BLANK	QC333334	017	1024105	407546	58477	314794	222832	328580
BS	QC333335	018	998693	405538	55774	292864	189046	315300
BSD	QC333336	019	984680	417647	56450	292508	192353	313229
MSS	185586-015	020	998186	418714	58770	315272	212839	327451
SER	QC333339	021	1032275	411778	58313	319615	218391	325472
MS	QC333337	022	999551	420098	57950	307285	214190	322118
MSD	QC333338	023	1017562	423613	58904	314742	215142	328226
PDS	QC333340	024	1041884	423481	59113	313489	217847	328399
CCV		026	1001556	415309	58109	308318	200460	326980
CCB		028	1051224	420350	58540	322145	220439	327779
SAMPLE	185586-016	029	1029440	423392	58697	312682	217151	324191
SAMPLE	185586-009	030	1024445	436577	56000	298937	181349	311779
SAMPLE	185586-011	033	1024207	441283	54671	289725	175808	319898
SAMPLE	185586-017	034	985257	417074	55010	294271	186718	318817
SAMPLE	185586-010	035	1021866	1060811*	60299	270188	162487	310898
SAMPLE	185586-010	036	1047723	432167	61156	329134	232559	341154
SAMPLE	185586-011	037	993458	648869*	55488	276003	166222	308580
SAMPLE	185586-011	038	1060703	422506	62236	340439	247730	357423
CCV		040	1009579	423327	59576	321078	207201	344830
CCB		042	1073677	425108	58931	325395	228698	338107
SAMPLE	185586-010	043	1013690	430220	54467	295754	181717	319142
SAMPLE	185586-010	044	1077748	442217	61428	335659	231830	351847
SAMPLE	185586-010	045	1108193*	435960	61256	337126	233607	349143
CCV		046	1027442	434273	59479	315739	206358	333829

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* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 31-MAR-2006
Sequence: 56130353 (c3112)
Instrument ID: MET05

ICALBLK Filename: c3112003
Date Analyzed: 31-MAR-2006
Time Analyzed: 12:45

TYPE	SAMPLE	#						
CCB		048	1056795	445438	59805	332807	228048	341996
ICSA		049	821995	343421	56899	249104	137459	278050

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* = Outside QC Limits

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185586 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL	V	ZN
185586-010	MET05	03/31/06 07:06	1.0		+	+			+			+	+		+				+	+	+		+		
185586-010	MET05	03/31/06 08:31	20.0				+			+	+			+		+		+				+		+	+
185586-010	MET05	03/31/06 15:45	1.0					+																	
185586-010	MET05	03/31/06 15:50	100.0																						
185586-010	MET05	03/31/06 16:35	200.0														+								
185586-010	MET05	03/31/06 16:40	500.0	+																					
185586-011	MET05	03/31/06 07:11	1.0		+	+			+	+	+	+	+		+			+	+	+	+		+	+	+
185586-011	MET05	03/31/06 08:36	20.0				+							+		+	+					+			
185586-011	MET05	03/31/06 15:56	1.0					+																	
185586-011	MET05	03/31/06 16:01	200.0	+																					
QC333334	MET05	03/31/06 04:17	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+
QC333334	MET05	03/31/06 14:05	1.0																			+			
QC333335	MET05	03/31/06 04:22	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+
QC333335	MET05	03/31/06 14:10	1.0																		+	+			
QC333336	MET05	03/31/06 04:28	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+
QC333336	MET05	03/31/06 14:16	1.0																		+	+			
QC333337	MET05	03/31/06 04:45	1.0	+	+	+	+	+	+		+	+	+	+	+		+	+	+	+			+	+	+
QC333337	MET05	03/31/06 05:35	20.0							+						+									
QC333337	MET05	03/31/06 14:32	20.0																		+	+			
QC333338	MET05	03/31/06 04:50	1.0	+	+	+	+	+	+		+	+	+	+	+		+	+	+	+			+	+	+
QC333338	MET05	03/31/06 05:41	20.0							+						+									
QC333338	MET05	03/31/06 14:38	20.0																		+	+			
QC333339	MET05	03/31/06 04:39	5.0	+	+	+	+	+	+		+	+	+	+	+		+	+	+	+	+		+	+	+
QC333339	MET05	03/31/06 14:27	100.0							+						+						+			
QC333340	MET05	03/31/06 04:56	1.0	+	+	+	+	+	+		+	+	+	+	+		+	+	+	+	+		+	+	+
QC333340	MET05	03/31/06 05:47	20.0							+						+									
QC333340	MET05	03/31/06 14:43	20.0																			+			

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185586 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
185586-001	MET05	03/25/06 06:40	1.0			+			+		+		+	+	+				+							+
185586-001	MET05	03/25/06 08:09	20.0																							
185586-001	MET05	03/25/06 23:15	20.0																							
185586-001	MET05	03/29/06 01:11	20.0																							
185586-001	MET05	03/29/06 19:57	20.0							+						+	+			+			+			
185586-001	MET05	03/30/06 23:07	1.0	+																						
185586-002	MET05	03/25/06 06:46	1.0			+			+		+		+	+	+				+	+						+
185586-002	MET05	03/25/06 08:14	20.0														+									
185586-002	MET05	03/25/06 23:21	20.0																							
185586-002	MET05	03/29/06 01:17	20.0																							
185586-002	MET05	03/29/06 20:03	20.0							+						+							+			
185586-002	MET05	03/30/06 23:13	1.0	+																						
185586-003	MET05	03/25/06 06:51	1.0			+			+		+		+	+	+				+	+						+
185586-003	MET05	03/25/06 08:20	20.0																							
185586-003	MET05	03/25/06 23:27	20.0																							
185586-003	MET05	03/29/06 01:23	20.0																							
185586-003	MET05	03/29/06 20:08	20.0							+						+	+						+			
185586-003	MET05	03/30/06 23:19	1.0	+																						
185586-004	MET05	03/31/06 05:58	1.0	+							+			+												
185586-004	MET05	03/31/06 07:22	20.0																							
185586-005	MET05	03/31/06 06:04	1.0	+							+			+												
185586-005	MET05	03/31/06 07:28	20.0																							
185586-006	MET05	03/31/06 06:09	1.0	+							+			+												
185586-006	MET05	03/31/06 07:34	20.0																							
185586-007	MET05	03/31/06 06:15	1.0	+							+			+												
185586-007	MET05	03/31/06 08:02	20.0																							
185586-009	MET05	03/31/06 06:43	1.0	+	+	+	+		+		+	+	+	+	+		+		+	+	+	+		+	+	+
185586-009	MET05	03/31/06 08:08	20.0							+						+							+			
185586-009	MET05	03/31/06 15:17	1.0					+																		
185586-010	MET05	03/31/06 06:49	1.0		+	+	+		+		+	+	+	+	+		+		+	+	+	+		+	+	+
185586-010	MET05	03/31/06 08:14	20.0	+						+						+							+			
185586-010	MET05	03/31/06 16:29	1.0					+																		
185586-011	MET05	03/31/06 06:54	1.0	+	+	+	+		+	+	+	+	+	+	+		+		+	+	+	+		+	+	+
185586-011	MET05	03/31/06 08:19	20.0													+							+			
185586-011	MET05	03/31/06 15:34	1.0					+																		
185586-015	MET05	03/31/06 04:33	1.0	+	+	+			+		+		+	+	+		+		+	+					+	+
185586-015	MET05	03/31/06 05:24	20.0							+						+										
185586-015	MET05	03/31/06 14:21	20.0																				+			

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185586 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	
185586-016	MET05	03/31/06 05:52	1.0	+	+	+			+		+		+	+	+		+		+	+					+	+	
185586-016	MET05	03/31/06 07:17	20.0							+						+											
185586-016	MET05	03/31/06 15:11	20.0																				+				
185586-017	MET04	03/20/06 16:08	1.0															+									
185586-017	MET05	03/31/06 07:00	1.0	+	+	+	+		+	+	+	+	+	+	+		+		+	+	+	+		+	+	+	
185586-017	MET05	03/31/06 08:25	20.0													+							+				
185586-017	MET05	03/31/06 15:39	1.0					+																			
185586-018	MET05	03/25/06 06:57	1.0			+			+		+		+	+	+		+		+	+						+	
185586-018	MET05	03/25/06 08:26	20.0																								
185586-018	MET05	03/25/06 23:32	20.0																								
~~185586-018~~	~~MET05~~	~~03/29/06 01:50~~	~~20.0~~	+		+			+	+			+	+	+		+		+	+						+	SBS 5/4/06
185586-018	MET05	03/29/06 20:14	20.0							+						+							+				
185586-018	MET05	03/30/06 23:24	1.0	+																							
185586-019	MET05	03/25/06 07:02	1.0			+			+		+		+		+				+	+						+	
185586-019	MET05	03/25/06 23:38	20.0																								
~~185586-019~~	~~MET05~~	~~03/29/06 01:56~~	~~20.0~~	+		+			+	+			+	+	+		+		+	+						+	SBS 5/4/06
185586-019	MET05	03/29/06 23:38	20.0							+				+		+	+						+				
185586-019	MET05	03/30/06 23:30	1.0	+																							
185586-020	MET05	03/25/06 07:08	1.0			+			+		+		+		+				+	+						+	
185586-020	MET05	03/26/06 00:11	20.0																								
185586-020	MET05	03/29/06 23:43	20.0							+				+		+	+						+				
185586-020	MET05	03/30/06 23:35	1.0	+																							
185586-021	MET05	03/25/06 07:13	1.0			+			+		+		+	+	+				+	+						+	
185586-021	MET05	03/26/06 00:17	20.0																								
185586-021	MET05	03/29/06 23:49	20.0							+						+	+						+				
185586-021	MET05	03/30/06 23:41	1.0	+																							
185586-022	MET05	03/25/06 07:19	1.0			+			+		+		+	+	+		+		+	+						+	
185586-022	MET05	03/26/06 00:22	20.0																								
185586-022	MET05	03/29/06 23:55	20.0							+						+							+				
185586-022	MET05	03/30/06 23:47	1.0	+																							
185586-023	MET05	03/25/06 07:47	1.0																								
185586-023	MET05	03/25/06 22:53	1.0																								
185586-023	MET05	03/26/06 00:28	20.0																								
185586-023	MET05	03/29/06 00:49	1.0																								
185586-023	MET05	03/29/06 19:35	1.0	+		+			+	+	+		+	+	+	+	+		+	+			+			+	
185586-023	MET05	03/30/06 00:00	20.0																								
185586-024	MET05	03/25/06 07:52	1.0																								
185586-024	MET05	03/25/06 22:59	1.0																								
185586-024	MET05	03/26/06 00:33	20.0																								

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REVISED

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185586 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	ALB	ASB	ASA	BAE	BED	CDA	CAR	CCO	CUE	FEB	PBG	MGN	MHG	NIK	SEA	NAL	TL	VN	ZN
185586-024	MET05	03/29/06 00:55	1.0																			
185586-024	MET05	03/29/06 19:40	1.0	+		+			+		+		+	+	+		+					+
185586-024	MET05	03/30/06 00:06	20.0							+					+					+		
185586-025	MET05	03/25/06 07:58	1.0																			
185586-025	MET05	03/25/06 23:04	1.0																			
185586-025	MET05	03/26/06 00:39	20.0																			
185586-025	MET05	03/29/06 01:00	1.0																			
185586-025	MET05	03/29/06 19:46	1.0	+		+			+	+	+		+	+	+		+					+
185586-025	MET05	03/30/06 00:12	20.0												+					+		
185586-026	MET05	03/25/06 08:03	1.0																			
185586-026	MET05	03/25/06 23:10	1.0																			
185586-026	MET05	03/26/06 00:44	20.0																			
185586-026	MET05	03/29/06 01:06	1.0																			
185586-026	MET05	03/29/06 19:51	1.0	+		+			+		+		+	+	+		+					+
185586-026	MET05	03/30/06 00:17	20.0							+					+					+		
QC332055	MET05	03/24/06 16:58	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC332056	MET05	03/24/06 17:03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC332057	MET05	03/24/06 18:38	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC332058	MET05	03/24/06 13:50	1.0																			
QC332058	MET05	03/24/06 14:21	20.0																			
QC332058	MET05	03/24/06 17:59	1.0	+	+	+		+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC332058	MET05	03/24/06 18:15	20.0				+															
QC332059	MET05	03/24/06 13:56	1.0																			
QC332059	MET05	03/24/06 14:26	20.0																			
QC332059	MET05	03/24/06 18:04	1.0	+	+	+		+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC332059	MET05	03/24/06 18:21	20.0				+															
QC332060	MET05	03/24/06 13:45	5.0																			
QC332060	MET05	03/24/06 14:15	100.0																			
QC332060	MET05	03/24/06 17:20	5.0	+	+	+		+	+		+	+	+	+	+		+		+	+	+	+			+	+
QC332060	MET05	03/24/06 17:31	100.0				+			+						+							+	+		
QC332061	MET05	03/24/06 14:01	1.0																			
QC332061	MET05	03/24/06 18:10	1.0	+	+	+		+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
QC332061	MET05	03/24/06 18:26	20.0				+			+						+							+			
QC332184	MET04	03/20/06 16:01	1.0														+									
QC332185	MET04	03/20/06 16:04	1.0														+									
QC332186	MET04	03/20/06 16:06	1.0														+									

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185586 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	KK	SE	AG	NA	TL	V	ZN
QC332187	MET04	03/20/06 16:10	1.0															+								
QC332188	MET04	03/20/06 16:13	1.0															+								
QC333334	MET05	03/31/06 04:17	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+		+	+	+
QC333334	MET05	03/31/06 14:05	1.0																				+			
QC333335	MET05	03/31/06 04:22	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+			+	+	+
QC333335	MET05	03/31/06 14:10	1.0																			+	+			
QC333336	MET05	03/31/06 04:28	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+			+	+	+
QC333336	MET05	03/31/06 14:16	1.0																			+	+			
QC333337	MET05	03/31/06 04:45	1.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+	+			+	+	+
QC333337	MET05	03/31/06 05:35	20.0							+						+										
QC333337	MET05	03/31/06 14:32	20.0																			+	+			
QC333338	MET05	03/31/06 04:50	1.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+	+			+	+	+
QC333338	MET05	03/31/06 05:41	20.0							+						+										
QC333338	MET05	03/31/06 14:38	20.0																			+	+			
QC333339	MET05	03/31/06 04:39	5.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
QC333339	MET05	03/31/06 14:27	100.0							+						+							+			
QC333340	MET05	03/31/06 04:56	1.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
QC333340	MET05	03/31/06 05:47	20.0							+						+										
QC333340	MET05	03/31/06 14:43	20.0																				+			

Curtis & Tompkins Laboratories **Sample Preparation Summary** **31-MAR-2006 14:22**

Batch Number : 111759
Date Extracted: 28-MAR-2006
Extracted by : Kevin Gaines
Prep Method : 200.8

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S2309
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185586-004		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					AL, CR, FE		
185586-005		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					AL, CR, FE		
185586-006		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					AL, CR, FE		
185586-007		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					AL, CR, FE		
185586-009		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185586-010		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185586-010		Treadwell & Rollo	Water	50	mL	50	1.000000	1					TAL/ICP		
185586-011		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185586-011		Treadwell & Rollo	Water	50	mL	50	1.000000	1					TAL/ICP		
185586-015		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
185586-016		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
185586-017		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
QC333334	BLANK		Filtrate	50	mL	50	1.000000	1					ICAP		
QC333335	BS		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC333336	BSD		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC333337	MS	of 185586-015	Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC333338	MSD	of 185586-015	Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC333339	SER	of 185586-015	Filtrate	50	mL	50	1.000000	1					ICAP		
QC333340	PDS	of 185586-015	Filtrate	50	mL	50	1.000000	1					ICAP		

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Prep Chemist: [illegible] Reviewed By: [illegible] Date: 3/31/6

Relinquished By: [illegible] Received By: [illegible] Date: 3/31/6

td.

Water Digestion for ICP-MS

Curtis & Tompkins, Ltd.

LIMS Batch #: 111759 ~~111756~~
Date Digested: 3/25/06
Digested by: [illegible]

Digestion Method
☑ EPA 200.8 for ICP-MS
☐ _____

BK 2288
Page 31

Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BLK	50	50	N	
BS				
BSD				
MS -15 D				
MSD -15				FILTERED FILTERED
185586-15				
-16 F				
-04 D				
-05				
-06				
-07				
-09 H				
10 F				
-11				
-17 J				
-10 D				
-11				

	Reagent ID or LIMS #	Initials / Date
5 digestion temperature (90-95 degrees C)	95	[illegible] 3/28
.5 mL of spike solution was added to all spikes	32309	
concentrated HCl	C02031 BAKER	
concentrated HNO3	B49053	
☐ filtered thru' Whatman # 541		

[illegible] 3/25/06
Extraction Chemist / Date

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Continued from page ___
Continued on page ___

[illegible] 3/28/06
Review

Curtis & Tompkins Laboratories **Sample Preparation Summary** **24-MAR-2006 13:05**

Batch Number : 111436
Date Extracted: 19-MAR-2006
Extracted by : Kevin Gaines
Prep Method : 200.8

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S2309
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185457-001			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185457-002			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185457-005			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185457-006			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185457-007			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185457-008			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185457-016			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185586-001			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185586-002			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185586-003			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185586-018			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185586-019			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185586-020			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185586-021			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185586-022			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185586-023			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185586-024			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185586-025			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185586-026			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
QC332055	BLANK			Filtrate	50	mL	50	1.000000	1					ICAP		
QC332056	BS			Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC332057	BSD			Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC332058	MS	of 185457-016		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC332059	MSD	of 185457-016		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC332060	SER	of 185457-016		Filtrate	50	mL	50	1.000000	1					ICAP		
QC332061	PDS	of 185457-016		Filtrate	50	mL	50	1.000000	1					ICAP		

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Prep Chemist: MW for KG Reviewed By: MW Date: 3/24/6

Relinquished By: MW Received By: MW Date: 3/24/6

Water Digestion for ICP-MS Curtis & Tompkins, Ltd.

LIMS Batch #: 111436
Date Digested: 3/19/06
Digested by: [illegible]

Digestion Method
☑ EPA 200.8 for ICP-MS
☐ _____

BK 2288
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Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BLK	50	50	N	
BS				
BSD				
MS - 16S				FIELD FILTERED
MSD - 16				
185457 - 16				
- 01G				
- 02				
- 05				
- 06				
- 07				
- 08				
586 - 01J				
- 02				
- 03				
- 18				
- 19				
- 20				
- 21				
- 22				
- 23				
- 24 H				
- 25 J				
- 26				

	Reagent ID or LIMS #	Initials / Date
.5 digestion temperature (90-95 degrees C)	95	[illegible] 3/19
.5 mL of spike solution was added to all spikes	32305	
concentrated HCl	24034 BAKER	
concentrated HNO3	35040	
☐ filtered thru' Whatman # 541		

[illegible] 3/19/06
Extraction Chemist / Date

Continued from page _____
Continued on page _____

MW 3/24/06
Reviewed by / Date

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

Inst : MET04
Calnum : 46114615001
Units : ug/L

Date : 20-MAR-2006 14:15
X Axis : R

Type : WATER

Reviewer: ---
Inj Vol : 2000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	111455	46114615002	Std02Rep1	20-MAR-2006 14:17	S2955 (500X)
L2	111455	46114615003	Std03Rep1	20-MAR-2006 14:19	S2955 (200X)
L3	111455	46114615004	Std04Rep1	20-MAR-2006 14:21	S2955 (50X)
L4	111455	46114615005	Std05Rep1	20-MAR-2006 14:23	S2955 (20X)
L5	111455	46114615006	Std06Rep1	20-MAR-2006 14:25	S2955 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Mercury	70360	62562	58767	55668	54295	LINR	-0.0864	1.85E-5		60330	1.000	.99	

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LINR=Linear regression

Instrument amount = a0 + response * a1 + response^2 * a2

46114615001

WinHg Database 1.3

File Utility Help

RN RN

Protocol hgppb

Dataset/Proto 032006 /hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.84885e-5

C -8.63739e-2

Rho .999882

Type Linear

☑ Calibrated

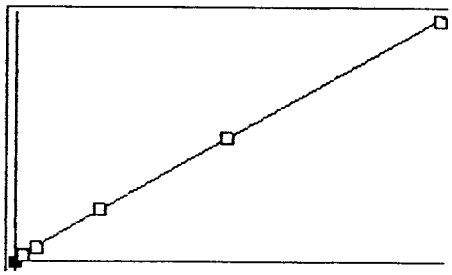
☑ Accepted

Accept

Rel. Abs.
542947

Accepted

New



Conc. 10.0

Include S1 Rep 1 ☑

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.064	-.064	1208	1	1207		
02	.20000	.174	-.026	14072	0%	14072		
03	.50000	.492	-.008	31281	0%	31281		
04	2.0000	2.09	.087	117535	0%	117534		
05	5.0000	5.06	.060	278342	0%	278342		
06	10.000	9.95	-.048	542947	0%	542947		

Ready NUM

```
Line    Conc.  Units      SD/RSD       1        2        3        4        5
-----------------------------------------------------------------------------------

*** Standard: 1 Rep: 1                Seq:  3        14:15:53 20 Mar 06    HG

Hg     .000    ppb       1207
               Bkgd 1    9993408

*** Standard: 2 Rep: 1                Seq:  4        14:17:39 20 Mar 06    HG

Hg     .200    ppb       14072
               Bkgd 1    9992269

*** Standard: 3 Rep: 1                Seq:  5        14:19:35 20 Mar 06    HG

Hg     .500    ppb       31281
               Bkgd 1    9990201

*** Standard: 4 Rep: 1                Seq:  6        14:21:17 20 Mar 06    HG

Hg     2.00    ppb       117534
               Bkgd 1    9989031

*** Standard: 5 Rep: 1                Seq:  7        14:23:02 20 Mar 06    HG

Hg     5.00    ppb       278342
               Bkgd 1    9988639

*** Standard: 6 Rep: 1                Seq:  8        14:25:01 20 Mar 06    HG

Hg     10.0    ppb       542947
               Bkgd 1    9988543

*** Check Standard: 2   Ck2s2957      Seq:  9        14:28:26 20 Mar 06    HG
Line  Flag             Intensities
Hg                     292365
               Bkgd 1  9986790

*** Check Standard: 1   Ck1ICB        Seq:  10       14:30:36 20 Mar 06    HG
Line  Flag             Intensities
Hg                     463
               Bkgd 1  9981903

*** Sample ID: qc332126               Seq:  11       14:32:18 20 Mar 06    HG
                           111455,1
Hg    -.069    ppb       936
               Bkgd 1   .9980605

=================================================================================
```

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 46114717 Instrument: MET04 HydraAA HG Analyzer Begun: 20-MAR-2006
Analytical Method: EPA 7470A SOP Version: HG_water_rv7
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	111468	CCV					20-MAR-2006 15:57	1.0	1.0	1	5.000	46114615001	5.180		ug/L	104		
002	111468	CCB					20-MAR-2006 15:59	1.0	1.0			46114615001	ND	0.20	ug/L			
003	111468	BLANK	QC332184		111468	Filtra	20-MAR-2006 16:01	1.0	1.0			46114615001	ND	0.20	ug/L			
004	111468	BS	QC332185		111468	Filtra	20-MAR-2006 16:04	1.0	1.0		5.000	46114615001	5.010	0.20	ug/L	100		
005	111468	BSD	QC332186		111468	Filtra	20-MAR-2006 16:06	1.0	1.0		5.000	46114615001	4.800	0.20	ug/L	96	4	
006	111468	MSS	185586-017		111468	Filtra	20-MAR-2006 16:08	1.0	1.0			46114615001	ND	0.20	ug/L			
007	111468	MS	QC332187	185586-017	111468	Filtra	20-MAR-2006 16:10	1.0	1.0		5.000	46114615001	5.060	0.20	ug/L	101		
008	111468	MSD	QC332188	185586-017	111468	Filtra	20-MAR-2006 16:13	1.0	1.0		5.000	46114615001	5.100	0.20	ug/L	102	1	
009	111468	SAMPLE	185589-002		111468	Water	20-MAR-2006 16:15	1.0	1.0			46114615001	ND	0.20	ug/L			
010	111468	SAMPLE	185622-006		111468	Filtra	20-MAR-2006 16:17	1.0	1.0			46114615001	ND	0.20	ug/L			
011	111468	SAMPLE	185622-007		111468	Filtra	20-MAR-2006 16:19	1.0	1.0			46114615001	ND	0.20	ug/L			
012	111468	SAMPLE	185622-020		111468	Filtra	20-MAR-2006 16:21	1.0	1.0			46114615001	ND	0.20	ug/L			
013	111468	CCV					20-MAR-2006 16:23	1.0	1.0	2	7.500	46114615001	7.690		ug/L	103		
014	111468	CCB					20-MAR-2006 16:25	1.0	1.0			46114615001	ND	0.20	ug/L			
015	111468	SAMPLE	185622-021		111468	Filtra	20-MAR-2006 16:27	1.0	1.0			46114615001	ND	0.20	ug/L			
016	111468	SAMPLE	185622-022		111468	Filtra	20-MAR-2006 16:29	1.0	1.0			46114615001	ND	0.20	ug/L			
017	111468	SAMPLE	185622-024		111468	Filtra	20-MAR-2006 16:31	1.0	1.0			46114615001	ND	0.20	ug/L			
018	111468	SAMPLE	185622-025		111468	Filtra	20-MAR-2006 16:33	1.0	1.0			46114615001	ND	0.20	ug/L			
019	111468	SAMPLE	185622-026		111468	Filtra	20-MAR-2006 16:35	1.0	1.0			46114615001	ND	0.20	ug/L			
020	111468	SAMPLE	185622-027		111468	Filtra	20-MAR-2006 16:36	1.0	1.0			46114615001	ND	0.20	ug/L			
021	111468	SAMPLE	185622-028		111468	Filtra	20-MAR-2006 16:38	1.0	1.0			46114615001	ND	0.20	ug/L			
022	111468	SAMPLE	185622-029		111468	Filtra	20-MAR-2006 16:40	1.0	1.0			46114615001	ND	0.20	ug/L			
023	111468	SAMPLE	185622-030		111468	Filtra	20-MAR-2006 16:42	1.0	1.0			46114615001	ND	0.20	ug/L			
024	111468	SAMPLE	185622-031		111468	Filtra	20-MAR-2006 16:44	1.0	1.0			46114615001	ND	0.20	ug/L			
025	111468	CCV					20-MAR-2006 16:46	1.0	1.0	3	2.500	46114615001	2.610		ug/L	104		
026	111468	CCB					20-MAR-2006 16:48	1.0	1.0			46114615001	ND	0.20	ug/L			
027	111468	SAMPLE	185622-033		111468	Filtra	20-MAR-2006 16:50	1.0	1.0			46114615001	ND	0.20	ug/L			
028	111468	SAMPLE	185622-034		111468	Filtra	20-MAR-2006 16:52	1.0	1.0			46114615001	ND	0.20	ug/L			
029	111468	SAMPLE	185622-035		111468	Filtra	20-MAR-2006 16:54	1.0	1.0			46114615001	ND	0.20	ug/L			
030	111468	SAMPLE	185622-036		111468	Filtra	20-MAR-2006 16:56	1.0	1.0			46114615001	ND	0.20	ug/L			
031	111468	SAMPLE	185622-037		111468	Filtra	20-MAR-2006 16:59	1.0	1.0			46114615001	ND	0.20	ug/L			
032	111468	CCV					20-MAR-2006 17:00	1.0	1.0	1	5.000	46114615001	5.240		ug/L	105		
033	111468	CCB					20-MAR-2006 17:02	1.0	1.0			46114615001	ND	0.20	ug/L			

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Stds used: 1=S2959 2=S2960 3=S2958

Analyst: [signature] Date: 3/20/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 46114615 Instrument: MET04 HydraAA HG Analyzer Begun: 20-MAR-2006
Analytical Method: EPA 7470A SOP Version: HG_water_rv7
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	111455	ICALBLK	Std01Rep1				20-MAR-2006 14:15	1.0	1.0									
002	111455	ICAL	Std02Rep1				20-MAR-2006 14:17	1.0	1.0									
003	111455	ICAL	Std03Rep1				20-MAR-2006 14:19	1.0	1.0									
004	111455	ICAL	Std04Rep1				20-MAR-2006 14:21	1.0	1.0									
005	111455	ICAL	Std05Rep1				20-MAR-2006 14:23	1.0	1.0									
006	111455	ICAL	Std06Rep1				20-MAR-2006 14:25	1.0	1.0									
007	111455	ICV					20-MAR-2006 14:28	1.0	1.0	2	5.000	46114615001	5.320		ug/L	106		
008	111455	ICB					20-MAR-2006 14:30	1.0	1.0			46114615001	ND	0.20	ug/L			
009	111455	BLANK	QC332126		111455	Filtra	20-MAR-2006 14:32	1.0	1.0			46114615001	ND	0.20	ug/L			
010	111455	BLANK	QC332127		111455	TCLP L	20-MAR-2006 14:34	1.0	5.0			46114615001	ND	1.0	ug/L			
011	111455	BS	QC332128		111455	Filtra	20-MAR-2006 14:35	1.0	1.0		5.000	46114615001	5.360	0.20	ug/L	107		
012	111455	BSD	QC332129		111455	Filtra	20-MAR-2006 14:37	1.0	1.0		5.000	46114615001	5.170	0.20	ug/L	103	4	
013	111455	MSS	185516-003		111455	TCLP L	20-MAR-2006 14:39	1.0	5.0			46114615001	5.3	1.0	ug/L			
014	111455	MS	QC332130	185516-003	111455	TCLP L	20-MAR-2006 14:41	1.0	5.0		25.00	46114615001	31.60	1.0	ug/L	105		
015	111455	MSD	QC332131	185516-003	111455	TCLP L	20-MAR-2006 14:43	1.0	5.0		25.00	46114615001	32.05	1.0	ug/L	107	1	
016	111455	MSS	185598-010		111455	Filtra	20-MAR-2006 14:45	1.0	1.0			46114615001	ND	0.20	ug/L			
017	111455	MS	QC332132	185598-010	111455	Filtra	20-MAR-2006 14:47	1.0	1.0		5.000	46114615001	5.540	0.20	ug/L	111		
018	111455	MSD	QC332133	185598-010	111455	Filtra	20-MAR-2006 14:48	1.0	1.0		5.000	46114615001	5.510	0.20	ug/L	110	1	
019	111455	CCV					20-MAR-2006 14:50	1.0	1.0	3	2.500	46114615001	2.600		ug/L	104		
020	111455	CCB					20-MAR-2006 14:52	1.0	1.0			46114615001	ND	0.20	ug/L			
021	111455	SAMPLE	185516-001		111455	TCLP L	20-MAR-2006 14:54	1.0	5.0			46114615001	96 >LR	1.0	ug/L			>LR cal
022	111455	SAMPLE	185516-002		111455	TCLP L	20-MAR-2006 14:56	1.0	5.0			46114615001	5.3	1.0	ug/L			
023	111455	SAMPLE	185598-005		111455	Water	20-MAR-2006 14:58	1.0	1.0			46114615001	ND	0.20	ug/L			
024	111455	SAMPLE	185598-006		111455	Water	20-MAR-2006 15:00	1.0	1.0			46114615001	ND	0.20	ug/L			
025	111455	SAMPLE	185598-007		111455	Water	20-MAR-2006 15:01	1.0	1.0			46114615001	ND	0.20	ug/L			
026	111455	SAMPLE	185598-012		111455	Water	20-MAR-2006 15:03	1.0	1.0			46114615001	ND	0.20	ug/L			
027	111455	SAMPLE	185598-005		111455	Filtra	20-MAR-2006 15:05	1.0	1.0			46114615001	ND	0.20	ug/L			
028	111455	SAMPLE	185598-006		111455	Filtra	20-MAR-2006 15:07	1.0	1.0			46114615001	ND	0.20	ug/L			
029	111455	SAMPLE	185598-007		111455	Filtra	20-MAR-2006 15:09	1.0	1.0			46114615001	ND	0.20	ug/L			
030	111455	SAMPLE	185598-009		111455	Filtra	20-MAR-2006 15:11	1.0	1.0			46114615001	ND	0.20	ug/L			
031	111455	CCV					20-MAR-2006 15:13	1.0	1.0	4	5.000	46114615001	5.300		ug/L	106		
032	111455	CCB					20-MAR-2006 15:16	1.0	1.0			46114615001	ND	0.20	ug/L			
033	111455	SAMPLE	185598-011		111455	Filtra	20-MAR-2006 15:17	1.0	1.0			46114615001	ND	0.20	ug/L			
034	111455	SAMPLE	185598-012		111455	Filtra	20-MAR-2006 15:20	1.0	1.0			46114615001	ND	0.20	ug/L			
035	111455	SAMPLE	185618-003		111455	Water	20-MAR-2006 15:21	1.0	1.0			46114615001	ND	0.20	ug/L			
036	111455	SAMPLE	185627-002		111455	Water	20-MAR-2006 15:23	1.0	1.0			46114615001	ND	0.20	ug/L			
037	111455	SAMPLE	185635-001		111455	Water	20-MAR-2006 15:25	1.0	1.0			46114615001	ND	0.20	ug/L			
038	111455	SAMPLE	185516-001		111455	TCLP L	20-MAR-2006 15:27	4.0	5.0			46114615001	88	4.0	ug/L			
039	111455	CCV					20-MAR-2006 15:30	1.0	1.0	5	7.500	46114615001	7.660		ug/L	102		
040	111455	CCB					20-MAR-2006 15:32	1.0	1.0			46114615001	ND	0.20	ug/L			

Stds used: 1=S2955 2=S2957 3=S2958 4=S2959 5=S2960
Flags used: >LR=overrange b=noncompliant calc=check quantitation

Analyst: [signature] Date: 3/20/06

Curtis & Tompkins Laboratories **Sample Preparation Summary** **20-MAR-2006 13:04**

Batch Number : 111468
Date Extracted: 20-MAR-2006
Extracted by : Kale Clauson
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : mL
Clean-up :

Spike #1 ID : S2955
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185586-017		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				HG		
185589-002		Polymatrix	Water	50	mL	50	1.000000	1				HG		
185622-006		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				HG		
185622-007		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				HG		
185622-020		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				HG		
185622-021		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				HG		
185622-022		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				HG		
185622-024		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				HG		
185622-025		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				HG		
185622-026		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				HG		
185622-027		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				HG		
185622-028		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				HG		
185622-029		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				HG		
185622-030		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				HG		
185622-031		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				HG		
185622-033		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				HG		
185622-034		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				HG		
185622-035		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				HG		
185622-036		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				HG		
185622-037		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				HG		
QC332184	BLANK		Filtrate	50	mL	50	1.000000	1				HG		
QC332185	BS		Filtrate	50	mL	50	1.000000	1	2.5			HG		
QC332186	BSD		Filtrate	50	mL	50	1.000000	1	2.5			HG		
QC332187	MS	of 185586-017	Filtrate	50	mL	50	1.000000	1	2.5			HG		
QC332188	MSD	of 185586-017	Filtrate	50	mL	50	1.000000	1	2.5			HG		

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Prep Chemist: [signature] Reviewed By: K Carlyon Date: 3/20/06

Relinquished By: [signature] Received By: [signature] Date: 3/20/06

Water Digestion for Mercury

Curtis & Tompkins, Ltd

LIMS Batch #: ~~111466~~ KMC 5/10 111465

Date Digested: 3/20/06

Digested by: KMC

Digestion Method

☒ EPA 7470A/ EPA 245.1

☐ _____

BK 2277

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Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
185586 - 017 MSSJ	50	50	N	FILTRATE
185589 - 002 A				WATER
185622 - 006 D				FILTRATE
007 ↓				
020 G				
021				
022				
024				
025 ↓				
026 F				
027 G				
028 D				
029 ↓				
030 F				
031 C				
033 D				
034 ↓				
035 ↓				
036 F				
037 ↓				
BLANK				
BS				
BSD				
MS 185586 - 017				
MSD 185586 - 017				

	Reagent ID/ LIMS# / Time	Initials / Date
2.5 mL of spike solution was added to all spikes	52955	KMC 5/20
ICAL Source WS#	52955	
ICV / CCV WS#	52957/58/59/60	
Digestion of Samples & Standards: Time ON / Temperature ON	1230 / 95°C	
Time OFF/ Temperature OFF	230 / 95°C	
concentrated H_2SO_4	B030032	
concentrated HNO_3	B491053	
5% $KMnO_4$	K 031006	
5% $K_2S_2O_8$	K_2 021406	
NaCl.hydroxylamine hydrochloride	Hy 022806	
Stannous Chloride	$SnCl_2$ 031606	
☐ filtered thru' 0.45 um syringe filter		

3/20/06

Prep Chemist / Date

Continued from page ____

Continued on page ____

Carlyn 3/20/06

Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 6020 Water 200.8
As of 04/18/06

Analyte	Units	MET06 A	MET06 E	MET06 H	MET05
Aluminum	ug/L	0.40			1.0
Antimony	ug/L	0.0093			0.078
Arsenic	ug/L		0.034		0.65
Barium	ug/L	0.023			0.23
Beryllium	ug/L	0.017			0.055
Cadmium	ug/L	0.0058			0.14
Calcium	ug/L	5.6			15
Chromium	ug/L		0.038		0.085
Cobalt	ug/L		0.0072		0.034
Copper	ug/L		0.028		0.31
Iron	ug/L			1.9	4.2
Lead	ug/L	0.013			0.24
Magnesium	ug/L	0.73			2.1
Manganese	ug/L		0.011		0.082
Molybdenum	ug/L	0.0063			0.062
Nickel	ug/L		0.029		0.16
Potassium	ug/L	5.3			8.9
Selenium	ug/L			0.027	0.35
Silver	ug/L	0.0079			0.041
Sodium	ug/L		2.7		15
Thallium	ug/L	0.030			0.073
Vanadium	ug/L		0.026		0.15
Zinc	ug/L		0.062		0.52

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 7470A Water
As of 04/18/06

Analyte	Units	MET04
Mercury	ug/L	0.080

GENERAL CHEMISTRY

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	03/15/06
Units:	mg/L	Received:	03/16/06
Diln Fac:	1.000	Analyzed:	03/28/06

Field ID: 600GW102 Lab ID: 185586-001
Type: SAMPLE Batch#: 111772

Analyte	Result	RL
Alkalinity, Bicarbonate	450	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	450	1.0

Field ID: 600GW103 Lab ID: 185586-002
Type: SAMPLE Batch#: 111772

Analyte	Result	RL
Alkalinity, Bicarbonate	550	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	550	1.0

Field ID: 600GW104 Lab ID: 185586-003
Type: SAMPLE Batch#: 111798

Analyte	Result	RL
Alkalinity, Bicarbonate	470	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	470	1.0

Field ID: BHWGW04 Lab ID: 185586-004
Type: SAMPLE Batch#: 111798

Analyte	Result	RL
Alkalinity, Bicarbonate	210	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	210	1.0

Field ID: HWGW100 Lab ID: 185586-005
Type: SAMPLE Batch#: 111798

Analyte	Result	RL
Alkalinity, Bicarbonate	700	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	700	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	03/15/06
Units:	mg/L	Received:	03/16/06
Diln Fac:	1.000	Analyzed:	03/28/06

Field ID: HWGW101 Lab ID: 185586-006
Type: SAMPLE Batch#: 111798

Analyte	Result	RL
Alkalinity, Bicarbonate	510	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	510	1.0

Field ID: HWGW101RB04 Lab ID: 185586-007
Type: SAMPLE Batch#: 111798

Analyte	Result	RL
Alkalinity, Bicarbonate	ND	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	3.2	1.0

Field ID: DAEGW07 Lab ID: 185586-009
Type: SAMPLE Batch#: 111798

Analyte	Result	RL
Alkalinity, Bicarbonate	130	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	130	1.0

Field ID: BB3PZ102 Lab ID: 185586-010
Type: SAMPLE Batch#: 111798

Analyte	Result	RL
Alkalinity, Bicarbonate	180	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	180	1.0

Field ID: BB3SW102 Lab ID: 185586-011
Type: SAMPLE Batch#: 111798

Analyte	Result	RL
Alkalinity, Bicarbonate	250	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	250	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	03/15/06
Units:	mg/L	Received:	03/16/06
Diln Fac:	1.000	Analyzed:	03/28/06

Field ID: 1065PZ7A Lab ID: 185586-015
Type: SAMPLE Batch#: 111798

Analyte	Result	RL
Alkalinity, Bicarbonate	240	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	240	1.0

Field ID: 1065PZ7B Lab ID: 185586-016
Type: SAMPLE Batch#: 111798

Analyte	Result	RL
Alkalinity, Bicarbonate	440	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	440	1.0

Field ID: 231GW09 Lab ID: 185586-017
Type: SAMPLE Batch#: 111798

Analyte	Result	RL
Alkalinity, Bicarbonate	110	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	110	1.0

Field ID: 231GW11 Lab ID: 185586-018
Type: SAMPLE Batch#: 111798

Analyte	Result	RL
Alkalinity, Bicarbonate	420	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	420	1.0

Field ID: 231GW23 Lab ID: 185586-019
Type: SAMPLE Batch#: 111798

Analyte	Result	RL
Alkalinity, Bicarbonate	410	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	410	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	03/15/06
Units:	mg/L	Received:	03/16/06
Diln Fac:	1.000	Analyzed:	03/28/06

Field ID: 231GW25 Lab ID: 185586-020
Type: SAMPLE Batch#: 111798

Analyte	Result	RL
Alkalinity, Bicarbonate	800	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	800	1.0

Field ID: 231GW28 Lab ID: 185586-021
Type: SAMPLE Batch#: 111798

Analyte	Result	RL
Alkalinity, Bicarbonate	320	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	320	1.0

Field ID: 231GW27 Lab ID: 185586-022
Type: SAMPLE Batch#: 111798

Analyte	Result	RL
Alkalinity, Bicarbonate	230	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	230	1.0

Field ID: 231GW20 Lab ID: 185586-023
Type: SAMPLE Batch#: 111798

Analyte	Result	RL
Alkalinity, Bicarbonate	78	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	78	1.0

Field ID: 231GW18 Lab ID: 185586-024
Type: SAMPLE Batch#: 111798

Analyte	Result	RL
Alkalinity, Bicarbonate	270	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	270	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	03/15/06
Units:	mg/L	Received:	03/16/06
Diln Fac:	1.000	Analyzed:	03/28/06

Field ID: 231GW17 Lab ID: 185586-025
Type: SAMPLE Batch#: 111798

Analyte	Result	RL
Alkalinity, Bicarbonate	250	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	250	1.0

Field ID: 231GW06 Lab ID: 185586-026
Type: SAMPLE Batch#: 111798

Analyte	Result	RL
Alkalinity, Bicarbonate	220	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	220	1.0

Type: BLANK Batch#: 111772
Lab ID: QC333383

Analyte	Result	RL
Alkalinity, Bicarbonate	ND	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	ND	1.0

Type: BLANK Batch#: 111798
Lab ID: QC333486

Analyte	Result	RL
Alkalinity, Bicarbonate	ND	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Units:	mg/L
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC333384	Batch#:	111772
Matrix:	Water	Analyzed:	03/28/06

Spiked	Result	%REC	Limits
200.0	186.0	93	90-110

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Units:	mg/L
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC333487	Batch#:	111798
Matrix:	Water	Analyzed:	03/28/06

Spiked	Result	%REC	Limits
200.0	187.9	94	90-110

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Diln Fac:	1.000
Field ID:	DAEGW03	Batch#:	111772
MSS Lab ID:	185558-011	Sampled:	03/14/06
Matrix:	Water	Received:	03/15/06
Units:	mg/L	Analyzed:	03/28/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC333385	595.2	200.0	738.4	96	69-112		
MSD	QC333386		200.0	758.9	106	69-112	3	25

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Diln Fac:	1.000
Field ID:	1065PZ7A	Batch#:	111798
MSS Lab ID:	185586-015	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	mg/L	Analyzed:	03/28/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC333488	239.9	200.0	416.6	88	69-112		
MSD	QC333489		200.0	409.2	85	69-112	2	25

RPD= Relative Percent Difference

Analysis: **Alkalinity** Analysis Date: **03/28/06** H_2SO_4 Normality = **0.0186**

Method: **EPA 310.1** / SMWW 2320B Batch No: **111772** conc.(mg/L) Na_2CO_3 for QC = **200**

SOP#: Alkalinity_rv 6.doc Analyst: RS

SAMPLE	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alkalinity Volume (4.5-4.2) (mL)	**Low Alkalinity** as $CaCO_3$ (mg/L)	Reporting Limit (mg/L)
185541-1	6.65	25	0.00	29.50	1097.40		n/a	1.0
185541-2	7.26	25	0.00	61.00	2269.20		n/a	1.0
185541-3	6.87	25	0.00	61.00	2269.20		n/a	1.0
185541-4	6.68	25	0.00	27.50	1023.00		n/a	1.0
185558-11	7.44	25	0.00	16.00	595.20		n/a	1.0
185558-12	7.20	25	0.00	10.00	372.00		n/a	1.0
185558-13	6.97	25	0.00	12.70	472.44		n/a	1.0
185558-14	6.79	25	0.00	17.30	643.56		n/a	1.0
185558-15	6.59	25	0.00	3.00	111.60		n/a	1.0
185558-16	6.89	25	0.00	10.30	383.16		n/a	1.0
185558-17	6.98	25	0.00	4.00	148.80		n/a	1.0
185558-18	7.04	25	0.00	13.40	498.48		n/a	1.0
185558-19	6.96	25	0.00	15.40	572.88		n/a	1.0
185558-20	6.99	25	0.00	14.00	520.80		n/a	1.0
185558-22	7.38	25	0.00	20.50	762.60		n/a	1.0
185558-26	7.73	25	0.00	8.00	297.60		n/a	1.0
185558-27	7.63	25	0.00	11.40	424.08		n/a	1.0
185577-11	6.93	25	0.00	25.10	933.72		n/a	1.0
185586-1	7.04	25	0.00	12.00	446.40		n/a	1.0
185586-2	6.95	25	0.00	14.70	546.84		n/a	1.0

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QC DATA	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alk Vol (mL)	**Low Alk** as $CaCO_3$ (mg/L)	RL (mg/L)	% Rec.	% RPD
MB	5.02	25	0.00	0.00	ND			1.0		
LCS	9.54	25	2.00	5.00	186.00			1.0	93	
185586-2	6.95	25	0.00	14.70	546.84		n/a	1.0		
MS	7.34	25	1.90	19.85	738.42			1.0	96	
MSD	7.32	25	1.90	20.40	758.88			1.0	106	3

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	25	80 - 120

Reviewed by/ Date: Dm 3-29-06

Analysis: **Alkalinity** Analysis Date: 03/28/06 H_2SO_4 Normality = 0.0186

Method: **EPA 310.1** Batch No: 111772 Analyst: RS

SAMPLE	(P)	(T-P)	Total Alkalinty as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity	Carbonate Alkalinity	Hydroxide Alkalinity
				as $CaCO_3$ (mg/L)		
185541-1	0.0	1097.4	1097.4	1097.400	0.000	0.000
185541-2	0.0	2269.2	2269.2	2269.200	0.000	0.000
185541-3	0.0	2269.2	2269.2	2269.200	0.000	0.000
185541-4	0.0	1023.0	1023	1023.000	0.000	0.000
185558-11	0.0	595.2	595.2	595.200	0.000	0.000
185558-12	0.0	372.0	372	372.000	0.000	0.000
185558-13	0.0	472.4	472.44	472.440	0.000	0.000
185558-14	0.0	643.6	643.56	643.560	0.000	0.000
185558-15	0.0	111.6	111.6	111.600	0.000	0.000
185558-16	0.0	383.2	383.16	383.160	0.000	0.000
185558-17	0.0	148.8	148.8	148.800	0.000	0.000
185558-18	0.0	498.5	498.48	498.480	0.000	0.000
185558-19	0.0	572.9	572.88	572.880	0.000	0.000
185558-20	0.0	520.8	520.8	520.800	0.000	0.000
185558-22	0.0	762.6	762.6	762.600	0.000	0.000
185558-26	0.0	297.6	297.6	297.600	0.000	0.000
185558-27	0.0	424.1	424.08	424.080	0.000	0.000
185577-11	0.0	933.7	933.72	933.720	0.000	0.000
185586-1	0.0	446.4	446.4	446.400	0.000	0.000
185586-2	0.0	546.8	546.84	546.840	0.000	0.000

852

P: Phenolphthalein Alkalinity (using volume to pH 8.3)
T-P: Total Alkalinity minus Phenolphthalein Alkalinity

Carbonate Alkalinity = 2x the smaller of P or (T-P)
Bicarbonate Alkalinity = (T-2P) when P < (T-P)
Hydroxide Alkalinity = (2P-T) when (T-P) < P

Analysis: **Alkalinity** Analysis Date: 03/28/06 H_2SO_4 Normality = 0.0186

Method: **EPA 310.1** Batch No: 111772 Analyst: RS

SAMPLE	**Total Alkalinty** as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity **as HCO_3^- (mg/L)**	Carbonate Alkalinity **as CO_3^{2-} (mg/L)**	Hydroxide Alkalinity **as OH^- (mg/L)**
185541-1	1097.4	1338.00	0.000	0.00
185541-2	2269.2	2766.72	0.000	0.00
185541-3	2269.2	2766.72	0.000	0.00
185541-4	1023	1247.29	0.000	0.00
185558-11	595.2	725.70	0.000	0.00
185558-12	372	453.56	0.000	0.00
185558-13	472.44	576.02	0.000	0.00
185558-14	643.56	784.66	0.000	0.00
185558-15	111.6	136.07	0.000	0.00
185558-16	383.16	467.17	0.000	0.00
185558-17	148.8	181.42	0.000	0.00
185558-18	498.48	607.77	0.000	0.00
185558-19	572.88	698.48	0.000	0.00
185558-20	520.8	634.98	0.000	0.00
185558-22	762.6	929.80	0.000	0.00
185558-26	297.6	362.85	0.000	0.00
185558-27	424.08	517.06	0.000	0.00
185577-11	933.72	1138.44	0.000	0.00
185586-1	446.4	544.27	0.000	0.00
185586-2	546.84	666.73	0.000	0.00

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Alkalinity Benchbook EPA 310.1 / SMWW 2320B Curtis & Tompkins, Ltd.

LIMS Batch #: 111772 Date: 3-28-06 Benchbook#: **BK 2255**
Matrix: H_2O Time: 12:45 Page: **20**

CAL-ph 4.0: SS#: 055514
CAL-ph 7.0: SS#: 5177
CAL-ph 10.0: SS#: 51169
Slope: 98.9
(slope limits: 92 - 102)

$CaCO_3$ Vol (mgL) Spiked: 5
$CaCO_3$ Conc (mg/L): 1,000
$CaCO_3$ WS#: 51576
H_2SO_4 Normality: 0.0186
H_2SO_4 Reagent ID: 9-27-06

	Sample # / Letter	Sample Vol. Titrated (mL)	Initial pH (S.U.)	H_2SO_4 Vol (mL) to pH 8.3	H_2SO_4 Vol (mL) to pH 4.5 *	Low Alk TotalVol (mL)	Comments
1	MB	25	5.02	~~<0.05~~ RS 3/28	<0.05		
	LCS		9.54	2.00	5.00		
	185541-001L		6.65	—	29.50		
	-002		7.26	—	61.00		
5	-003		6.87	—	61.00		
	-004		6.68	—	27.5		
	185558-011H		7.44	—	16.00		
	-012E		7.20	—	10.00		
	-013H		6.97	—	12.70		
10	-014		6.79	—	17.30		
	-015		6.59	—	3.00		
	-016K		6.89	—	10.30		
	-017		6.98	—	4.00		
	-018		7.04 ~~6.72~~ RS 3/28	—	13.40		
15	-019		6.96	—	15.40		
	-020		6.99	—	14.00		
	-022		7.38	—	20.50		
	-026		7.73	—	8.00		
	-027		7.63	—	11.40		
20	185577-011I		6.93	—	25.10		
	185586-001K		7.04	—	12.00		
	-002		6.95	—	14.70		
	MS -002		7.34	—	19.85		
	MSD -002		7.32	—	20.40		
					RS 3/28/06		

* If Acid Vol to 4.5 is < 2.0mL, redo using 100mL sample volume. If still < 2.0mL, go on to Low Alkalinity.

RShiffa 3/28/06
Analyst / Date

3-29-06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111772
Date Started: 28-MAR-2006
Batched by : Radia Shiffa

Analysis : ALKALINITY
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185541-001			Arcadis G&M	Water	ALKALINITY	28-MAR-2006
185541-002			Arcadis G&M	Water	ALKALINITY	28-MAR-2006
185541-003			Arcadis G&M	Water	ALKALINITY	28-MAR-2006
185541-004			Arcadis G&M	Water	ALKALINITY	28-MAR-2006
185558-011			Treadwell & Rollo	Water	ALKALINITY	27-MAR-2006
185558-012			Treadwell & Rollo	Water	ALKALINITY	27-MAR-2006
185558-013			Treadwell & Rollo	Water	ALKALINITY	27-MAR-2006
185558-014			Treadwell & Rollo	Water	ALKALINITY	27-MAR-2006
185558-015			Treadwell & Rollo	Water	ALKALINITY	27-MAR-2006
185558-016			Treadwell & Rollo	Water	ALKALINITY	27-MAR-2006
185558-017			Treadwell & Rollo	Water	ALKALINITY	27-MAR-2006
185558-018			Treadwell & Rollo	Water	ALKALINITY	27-MAR-2006
185558-019			Treadwell & Rollo	Water	ALKALINITY	27-MAR-2006
185558-020			Treadwell & Rollo	Water	ALKALINITY	27-MAR-2006
185558-022			Treadwell & Rollo	Water	ALKALINITY	27-MAR-2006
185558-026			Treadwell & Rollo	Water	ALKALINITY	27-MAR-2006
185558-027			Treadwell & Rollo	Water	ALKALINITY	27-MAR-2006
185577-011			Arcadis G&M	Water	ALKALINITY	28-MAR-2006
185586-001			Treadwell & Rollo	Water	ALKALINITY	28-MAR-2006
185586-002			Treadwell & Rollo	Water	ALKALINITY	28-MAR-2006
QC333383	BLANK			Water	ALKALINITY	
QC333384	LCS			Water	ALKALINITY	
QC333385	MS	of 185558-011		Water	ALKALINITY	
QC333386	MSD	of 185558-011		Water	ALKALINITY	

Analysis: **Alkalinity** Analysis Date: **03/28/06** H_2SO_4 Normality = **0.0186**

Method: **EPA 310.1** / SMWW 2320B Batch No: **111798** conc.(mg/L) Na_2CO_3 for QC = **200**

SOP#: Alkalinity_rv 6.doc Analyst: JKS

SAMPLE	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alkalinity Volume (4.5-4.2) (mL)	**Low Alkalinity** as $CaCO_3$ (mg/L)	Reporting Limit (mg/L)
185586-3	7.03	25	0.00	12.70	472.44		n/a	1.0
185586-4	7.09	25	0.00	5.55	206.46		n/a	1.0
185586-5	7.51	25	0.00	18.95	704.94		n/a	1.0
185586-6	7.40	25	0.00	13.80	513.36		n/a	1.0
185586-7	7.84	100	0.00	0.445	rpt low alk	0.550	3.162	1.0
185586-9	6.55	25	0.00	3.50	130.20		n/a	1.0
185586-10	7.16	25	0.00	4.95	184.14		n/a	1.0
185586-11	7.11	25	0.00	6.70	249.24		n/a	1.0
185586-15	7.04	25	0.00	6.45	239.94		n/a	1.0
185586-16	7.37	25	0.00	11.85	440.82		n/a	1.0
185586-17	6.64	25	0.00	3.05	113.46		n/a	1.0
185586-18	7.61	25	0.00	11.20	416.64		n/a	1.0
185586-19	7.05	25	0.00	11.15	414.78		n/a	1.0
185586-20	7.16	25	0.00	21.60	803.52		n/a	1.0
185586-21	7.10	25	0.00	8.70	323.64		n/a	1.0
185586-22	7.19	25	0.00	6.15	228.78		n/a	1.0
185586-23	6.91	25	0.00	2.10	78.12		n/a	1.0
185586-24	7.04	25	0.00	7.15	265.98		n/a	1.0
185586-25	7.17	25	0.00	6.60	245.52		n/a	1.0
185586-26	7.07	25	0.00	6.00	223.20		n/a	1.0

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QC DATA	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alk Vol (mL)	**Low Alk** as $CaCO_3$ (mg/L)	RL (mg/L)	% Rec.	% RPD
MB	4.62	25	0.00	0.00	ND			1.0		
LCS	9.82	25	2.05	5.05	187.86			1.0	94	
185586-15	7.04	25	0.00	6.45	239.94		n/a	1.0		
MS	8.57	25	0.60	11.20	416.64			1.0	88	
MSD	8.28	25	0.00	11.00	409.20			1.0	85	2

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	25	80 - 120

Reviewed by/ Date: Dlr 3-29-06

Analysis: **Alkalinity** Analysis Date: 03/28/06 H_2SO_4 Normality = 0.0186

Method: **EPA 310.1** Batch No: 111798 Analyst: JKS

SAMPLE	(P)	(T-P)	Total Alkalinty as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity	Carbonate Alkalinity	Hydroxide Alkalinity
				as $CaCO_3$ (mg/L)		
185586-3	0.0	472.4	472.44	472.440	0.000	0.000
185586-4	0.0	206.5	206.46	206.460	0.000	0.000
185586-5	0.0	704.9	704.94	704.940	0.000	0.000
185586-6	0.0	513.4	513.36	513.360	0.000	0.000
185586-7	0.0	#VALUE!	3.162	not applicable	not applicable	not applicable
185586-9	0.0	130.2	130.2	130.200	0.000	0.000
185586-10	0.0	184.1	184.14	184.140	0.000	0.000
185586-11	0.0	249.2	249.24	249.240	0.000	0.000
185586-15	0.0	239.9	239.94	239.940	0.000	0.000
185586-16	0.0	440.8	440.82	440.820	0.000	0.000
185586-17	0.0	113.5	113.46	113.460	0.000	0.000
185586-18	0.0	416.6	416.64	416.640	0.000	0.000
185586-19	0.0	414.8	414.78	414.780	0.000	0.000
185586-20	0.0	803.5	803.52	803.520	0.000	0.000
185586-21	0.0	323.6	323.64	323.640	0.000	0.000
185586-22	0.0	228.8	228.78	228.780	0.000	0.000
185586-23	0.0	78.1	78.12	78.120	0.000	0.000
185586-24	0.0	266.0	265.98	265.980	0.000	0.000
185586-25	0.0	245.5	245.52	245.520	0.000	0.000
185586-26	0.0	223.2	223.2	223.200	0.000	0.000

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P: Phenolphthalein Alkalinity (using volume to pH 8.3)
T-P: Total Alkalinity minus Phenolphthalein Alkalinity

Carbonate Alkalinity = 2x the smaller of P or (T-P)
Bicarbonate Alkalinity = (T-2P) when P < (T-P)
Hydroxide Alkalinity = (2P-T) when (T-P) < P

Analysis: **Alkalinity** Analysis Date: 03/28/06 H_2SO_4 Normality = 0.0186

Method: **EPA 310.1** Batch No: 111798 Analyst: JKS

SAMPLE	Total Alkalinty as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity as HCO_3^- (mg/L)	Carbonate Alkalinity as CO_3^{2-} (mg/L)	Hydroxide Alkalinity as OH^- (mg/L)
185586-3	472.44	576.02	0.000	0.00
185586-4	206.46	251.73	0.000	0.00
185586-5	704.94	859.50	0.000	0.00
185586-6	513.36	625.91	0.000	0.00
185586-7	3.162	not applicable	not applicable	not applicable
185586-9	130.2	158.75	0.000	0.00
185586-10	184.14	224.51	0.000	0.00
185586-11	249.24	303.89	0.000	0.00
185586-15	239.94	292.55	0.000	0.00
185586-16	440.82	537.47	0.000	0.00
185586-17	113.46	138.34	0.000	0.00
185586-18	416.64	507.99	0.000	0.00
185586-19	414.78	505.72	0.000	0.00
185586-20	803.52	979.69	0.000	0.00
185586-21	323.64	394.60	0.000	0.00
185586-22	228.78	278.94	0.000	0.00
185586-23	78.12	95.25	0.000	0.00
185586-24	265.98	324.30	0.000	0.00
185586-25	245.52	299.35	0.000	0.00
185586-26	223.2	272.14	0.000	0.00

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Alkalinity Benchbook EPA 310.1 / SMWW 2320B Curtis & Tompkins, Ltd.

LIMS Batch #: 111798 Date: 3-28-6 Benchbook#: **BK 2255**
Matrix: Water Time: 23:30 Page: **21**

CAL-ph 4.0: SS#: 055514
CAL-ph 7.0: SS#: 5177
CAL-ph 10.0: SS#: 51169
Slope: ~~40.1~~ 101.0
(slope limits: 92 - 102)

$CaCO_3$ Vol (mgL) Spiked: 5ml
$CaCO_3$ Conc (mg/L): 1000
$CaCO_3$ WS#: 51576
H_2SO_4 Normality: 0.0186
H_2SO_4 Reagent ID: 7-27-06

	Sample # / Letter	Sample Vol. Titrated (mL)	Initial pH (S.U.)	H_2SO_4 Vol (mL) to pH 8.3	to pH 4.5 *	Low Alk TotalVol (mL)	Comments
1	MB	25	4.62	—	<0.05		
	LCS		9.82	2.05	5.05		
	185586-13K		7.03	—	12.70		
	-4E		7.09	—	5.55		
5	-5		7.51	—	18.95		
	-6		7.40	—	13.80		
	-7	100	~~7.69~~ 7.84	—	0.445 (pH=4.34)	~~0.0~~ 0.550 (pH=4.02)	
	-9I	25	6.55	—	3.50		
	-10F		7.16	—	4.95		
10	-11F		~~6.50~~ 7.11	—	6.70		
	-15P		7.04	—	6.45		
	-15 ~~R~~ MS		8.57	0.60	11.20		
	-15 ~~R~~ MSD		8.28	—	11.00		
	-16F		7.37	—	11.85		
15	-17K		6.64	—	3.05		
	-18K		7.61	—	11.20		
	-19		7.05	—	11.15		
	-20		7.16	—	21.60		
	-21		7.16	—	8.70		
20	-22		7.19	—	6.15		
	-23		6.91	—	2.10		
	-24I		7.04	—	7.15		
	-25K		7.17	—	6.60		
	-26K		7.07	—	6.00		

* If Acid Vol to 4.5 is < 2.0mL, redo using 100mL sample volume. If still < 2.0mL, go on to Low Alkalinity.

Jason Apeme 3-28-6
Analyst / Date

RSCuffa 3-29-06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111798
Date Started: 28-MAR-2006
Batched by : Jason K. Spence

Analysis : ALKALINITY
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185586-003			Treadwell & Rollo	Water	ALKALINITY	28-MAR-2006
185586-004			Treadwell & Rollo	Water	ALKALINITY	28-MAR-2006
185586-005			Treadwell & Rollo	Water	ALKALINITY	28-MAR-2006
185586-006			Treadwell & Rollo	Water	ALKALINITY	28-MAR-2006
185586-007			Treadwell & Rollo	Water	ALKALINITY	28-MAR-2006
185586-009			Treadwell & Rollo	Water	ALKALINITY	28-MAR-2006
185586-010			Treadwell & Rollo	Water	ALKALINITY	28-MAR-2006
185586-011			Treadwell & Rollo	Water	ALKALINITY	28-MAR-2006
185586-015			Treadwell & Rollo	Water	ALKALINITY	28-MAR-2006
185586-016			Treadwell & Rollo	Water	ALKALINITY	28-MAR-2006
185586-017			Treadwell & Rollo	Water	ALKALINITY	28-MAR-2006
185586-018			Treadwell & Rollo	Water	ALKALINITY	28-MAR-2006
185586-019			Treadwell & Rollo	Water	ALKALINITY	28-MAR-2006
185586-020			Treadwell & Rollo	Water	ALKALINITY	28-MAR-2006
185586-021			Treadwell & Rollo	Water	ALKALINITY	28-MAR-2006
185586-022			Treadwell & Rollo	Water	ALKALINITY	28-MAR-2006
185586-023			Treadwell & Rollo	Water	ALKALINITY	28-MAR-2006
185586-024			Treadwell & Rollo	Water	ALKALINITY	28-MAR-2006
185586-025			Treadwell & Rollo	Water	ALKALINITY	28-MAR-2006
185586-026			Treadwell & Rollo	Water	ALKALINITY	28-MAR-2006
QC333486	BLANK			Water	ALKALINITY	
QC333487	LCS			Water	ALKALINITY	
QC333488	MS	of 185586-015		Water	ALKALINITY	
QC333489	MSD	of 185586-015		Water	ALKALINITY	

Curtis & Tompkins, Ltd.

Chloride

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Units:	mg/L
Matrix:	Water	Received:	03/16/06

Field ID	Type	Lab ID	Result	RL	Diln Fac	Batch#	Sampled	Analyzed
600GW102	SAMPLE	185586-001	330	5.0	25.00	111418	03/15/06 09:00	03/17/06 03:03
600GW103	SAMPLE	185586-002	100	5.0	25.00	111418	03/15/06 09:55	03/17/06 03:21
600GW104	SAMPLE	185586-003	22	5.0	25.00	111418	03/15/06 10:50	03/17/06 03:38
BHWGW04	SAMPLE	185586-004	89	2.0	10.00	111418	03/15/06 16:15	03/17/06 03:56
HWGW100	SAMPLE	185586-005	37	5.0	25.00	111418	03/15/06 14:20	03/17/06 05:23
HWGW101	SAMPLE	185586-006	52	5.0	25.00	111418	03/15/06 15:20	03/17/06 05:41
HWGW101RB04	SAMPLE	185586-007	ND	0.20	1.000	111418	03/15/06 15:30	03/17/06 01:18
DAEGW07	SAMPLE	185586-009	26	1.0	5.000	111418	03/15/06 11:45	03/17/06 05:58
BB3PZ102	SAMPLE	185586-010	82	1.0	5.000	111418	03/15/06 14:20	03/17/06 06:16
BB3SW102	SAMPLE	185586-011	180	5.0	25.00	111418	03/15/06 15:40	03/17/06 06:33
1065PZ7A	SAMPLE	185586-015	76	2.0	10.00	111418	03/15/06 09:45	03/16/06 21:13
1065PZ7B	SAMPLE	185586-016	30	5.0	25.00	111418	03/15/06 11:00	03/17/06 06:51
231GW09	SAMPLE	185586-017	22	1.0	5.000	111418	03/15/06 12:00	03/17/06 07:08
231GW11	SAMPLE	185586-018	53	2.0	10.00	111418	03/15/06 13:00	03/17/06 07:26
231GW23	SAMPLE	185586-019	47	2.0	10.00	111418	03/15/06 13:55	03/17/06 07:43
231GW25	SAMPLE	185586-020	48	5.0	25.00	111418	03/15/06 14:50	03/17/06 08:01
231GW28	SAMPLE	185586-021	15	0.20	1.000	111418	03/15/06 16:20	03/17/06 01:53
231GW27	SAMPLE	185586-022	59	2.0	10.00	111418	03/15/06 15:55	03/17/06 09:46
231GW20	SAMPLE	185586-023	16	0.20	1.000	111418	03/15/06 15:00	03/17/06 02:28
231GW18	SAMPLE	185586-024	57	2.0	10.00	111418	03/15/06 12:40	03/17/06 10:21
231GW17	SAMPLE	185586-025	30	2.0	10.00	111417	03/15/06 11:45	03/17/06 04:17
231GW06	SAMPLE	185586-026	50	2.0	10.00	111417	03/15/06 09:45	03/17/06 04:35
	BLANK	QC331968	ND	0.20	1.000	111417		03/16/06 16:13
	BLANK	QC331973	ND	0.20	1.000	111418		03/16/06 15:52

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Fluoride

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Diln Fac:	1.000
Matrix:	Water	Received:	03/16/06
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Batch#	Sampled	Analyzed
600GW102	SAMPLE	185586-001	0.16	0.10	111418	03/15/06 09:00	03/16/06 19:28
600GW103	SAMPLE	185586-002	0.26	0.10	111418	03/15/06 09:55	03/16/06 19:10
600GW104	SAMPLE	185586-003	0.35	0.10	111418	03/15/06 10:50	03/16/06 18:00
BHWGW04	SAMPLE	185586-004	ND	0.10	111418	03/15/06 16:15	03/16/06 19:46
HWGW100	SAMPLE	185586-005	0.11	0.10	111418	03/15/06 14:20	03/16/06 22:06
HWGW101	SAMPLE	185586-006	0.10	0.10	111418	03/15/06 15:20	03/16/06 22:23
HWGW101RB04	SAMPLE	185586-007	ND	0.10	111418	03/15/06 15:30	03/17/06 01:18
DAEGW07	SAMPLE	185586-009	ND	0.10	111418	03/15/06 11:45	03/16/06 18:18
BB3PZ102	SAMPLE	185586-010	0.12	0.10	111418	03/15/06 14:20	03/16/06 22:41
BB3SW102	SAMPLE	185586-011	ND	0.10	111418	03/15/06 15:40	03/16/06 22:58
1065PZ7A	SAMPLE	185586-015	ND	0.10	111418	03/15/06 09:45	03/16/06 18:35
1065PZ7B	SAMPLE	185586-016	0.13	0.10	111418	03/15/06 11:00	03/16/06 18:53
231GW09	SAMPLE	185586-017	ND	0.10	111418	03/15/06 12:00	03/16/06 23:16
231GW11	SAMPLE	185586-018	0.15	0.10	111418	03/15/06 13:00	03/16/06 23:33
231GW23	SAMPLE	185586-019	0.31	0.10	111418	03/15/06 13:55	03/16/06 23:51
231GW25	SAMPLE	185586-020	0.42	0.10	111418	03/15/06 14:50	03/17/06 01:36
231GW28	SAMPLE	185586-021	0.27	0.10	111418	03/15/06 16:20	03/17/06 01:53
231GW27	SAMPLE	185586-022	ND	0.10	111418	03/15/06 15:55	03/17/06 02:11
231GW20	SAMPLE	185586-023	ND	0.10	111418	03/15/06 15:00	03/17/06 02:28
231GW18	SAMPLE	185586-024	ND	0.10	111418	03/15/06 12:40	03/17/06 02:46
231GW17	SAMPLE	185586-025	ND	0.10	111417	03/15/06 11:45	03/17/06 03:03
231GW06	SAMPLE	185586-026	ND	0.10	111417	03/15/06 09:45	03/17/06 03:40
	BLANK	QC331968	ND	0.10	111417		03/16/06 16:13
	BLANK	QC331973	ND	0.10	111418		03/16/06 15:52

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrate Nitrogen

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Units:	mg/L
Matrix:	Water	Received:	03/16/06

Field ID	Type	Lab ID	Result	RL	Diln Fac	Batch#	Sampled	Analyzed
600GW102	SAMPLE	185586-001	0.48	0.05	1.000	111418	03/15/06 09:00	03/16/06 19:28
600GW103	SAMPLE	185586-002	ND	0.05	1.000	111418	03/15/06 09:55	03/16/06 19:10
600GW104	SAMPLE	185586-003	0.10	0.05	1.000	111418	03/15/06 10:50	03/16/06 18:00
BHWGW04	SAMPLE	185586-004	4.9	0.05	1.000	111418	03/15/06 16:15	03/16/06 19:46
HWGW100	SAMPLE	185586-005	0.71	0.05	1.000	111418	03/15/06 14:20	03/16/06 22:06
HWGW101	SAMPLE	185586-006	1.5	0.05	1.000	111418	03/15/06 15:20	03/16/06 22:23
HWGW101RB04	SAMPLE	185586-007	ND	0.05	1.000	111418	03/15/06 15:30	03/17/06 01:18
DAEGW07	SAMPLE	185586-009	ND	0.05	1.000	111418	03/15/06 11:45	03/16/06 18:18
BB3PZ102	SAMPLE	185586-010	4.3	0.05	1.000	111418	03/15/06 14:20	03/16/06 22:41
BB3SW102	SAMPLE	185586-011	3.6	0.05	1.000	111418	03/15/06 15:40	03/16/06 22:58
1065PZ7A	SAMPLE	185586-015	2.5	0.05	1.000	111418	03/15/06 09:45	03/16/06 18:35
1065PZ7B	SAMPLE	185586-016	3.8	0.05	1.000	111418	03/15/06 11:00	03/16/06 18:53
231GW09	SAMPLE	185586-017	4.6	0.05	1.000	111418	03/15/06 12:00	03/16/06 23:16
231GW11	SAMPLE	185586-018	ND	0.05	1.000	111418	03/15/06 13:00	03/16/06 23:33
231GW23	SAMPLE	185586-019	0.10	0.05	1.000	111418	03/15/06 13:55	03/16/06 23:51
231GW25	SAMPLE	185586-020	ND	0.05	1.000	111418	03/15/06 14:50	03/17/06 01:36
231GW28	SAMPLE	185586-021	ND	0.05	1.000	111418	03/15/06 16:20	03/17/06 01:53
231GW27	SAMPLE	185586-022	5.6	0.50	10.00	111418	03/15/06 15:55	03/17/06 09:46
231GW20	SAMPLE	185586-023	0.60	0.05	1.000	111418	03/15/06 15:00	03/17/06 02:28
231GW18	SAMPLE	185586-024	5.4	0.50	10.00	111418	03/15/06 12:40	03/17/06 10:21
231GW17	SAMPLE	185586-025	8.6	0.50	10.00	111417	03/15/06 11:45	03/17/06 04:17
231GW06	SAMPLE	185586-026	ND	0.05	1.000	111417	03/15/06 09:45	03/17/06 03:40
	BLANK	QC331968	ND	0.05	1.000	111417		03/16/06 16:13
	BLANK	QC331973	ND	0.05	1.000	111418		03/16/06 15:52

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrite Nitrogen

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Diln Fac:	1.000
Matrix:	Water	Received:	03/16/06
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Batch#	Sampled	Analyzed
600GW102	SAMPLE	185586-001	ND	0.05	111418	03/15/06 09:00	03/16/06 19:28
600GW103	SAMPLE	185586-002	ND	0.05	111418	03/15/06 09:55	03/16/06 19:10
600GW104	SAMPLE	185586-003	ND	0.05	111418	03/15/06 10:50	03/16/06 18:00
BHWGW04	SAMPLE	185586-004	ND	0.05	111418	03/15/06 16:15	03/16/06 19:46
HWGW100	SAMPLE	185586-005	ND	0.05	111418	03/15/06 14:20	03/16/06 22:06
HWGW101	SAMPLE	185586-006	ND	0.05	111418	03/15/06 15:20	03/16/06 22:23
HWGW101RB04	SAMPLE	185586-007	ND	0.05	111418	03/15/06 15:30	03/17/06 01:18
DAEGW07	SAMPLE	185586-009	ND	0.05	111418	03/15/06 11:45	03/16/06 18:18
BB3PZ102	SAMPLE	185586-010	ND	0.05	111418	03/15/06 14:20	03/16/06 22:41
BB3SW102	SAMPLE	185586-011	ND	0.05	111418	03/15/06 15:40	03/16/06 22:58
1065PZ7A	SAMPLE	185586-015	ND	0.05	111418	03/15/06 09:45	03/16/06 18:35
1065PZ7B	SAMPLE	185586-016	ND	0.05	111418	03/15/06 11:00	03/16/06 18:53
231GW09	SAMPLE	185586-017	ND	0.05	111418	03/15/06 12:00	03/16/06 23:16
231GW11	SAMPLE	185586-018	ND	0.05	111418	03/15/06 13:00	03/16/06 23:33
231GW23	SAMPLE	185586-019	ND	0.05	111418	03/15/06 13:55	03/16/06 23:51
231GW25	SAMPLE	185586-020	ND	0.05	111418	03/15/06 14:50	03/17/06 01:36
231GW28	SAMPLE	185586-021	ND	0.05	111418	03/15/06 16:20	03/17/06 01:53
231GW27	SAMPLE	185586-022	ND	0.05	111418	03/15/06 15:55	03/17/06 02:11
231GW20	SAMPLE	185586-023	ND	0.05	111418	03/15/06 15:00	03/17/06 02:28
231GW18	SAMPLE	185586-024	ND	0.05	111418	03/15/06 12:40	03/17/06 02:46
231GW17	SAMPLE	185586-025	ND	0.05	111417	03/15/06 11:45	03/17/06 03:03
231GW06	SAMPLE	185586-026	ND	0.05	111417	03/15/06 09:45	03/17/06 03:40
	BLANK	QC331968	ND	0.05	111417		03/16/06 16:13
	BLANK	QC331973	ND	0.05	111418		03/16/06 15:52

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Sulfate

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Units:	mg/L
Matrix:	Water	Received:	03/16/06

Field ID	Type	Lab ID	Result	RL	Diln Fac	Batch#	Sampled	Analyzed
600GW102	SAMPLE	185586-001	22	0.50	1.000	111418	03/15/06 09:00	03/16/06 19:28
600GW103	SAMPLE	185586-002	ND	0.50	1.000	111418	03/15/06 09:55	03/16/06 19:10
600GW104	SAMPLE	185586-003	110	13	25.00	111418	03/15/06 10:50	03/17/06 03:38
BHWGW04	SAMPLE	185586-004	62	5.0	10.00	111418	03/15/06 16:15	03/17/06 03:56
HWGW100	SAMPLE	185586-005	90	13	25.00	111418	03/15/06 14:20	03/17/06 05:23
HWGW101	SAMPLE	185586-006	84	13	25.00	111418	03/15/06 15:20	03/17/06 05:41
HWGW101RB04	SAMPLE	185586-007	ND	0.50	1.000	111418	03/15/06 15:30	03/17/06 01:18
DAEGW07	SAMPLE	185586-009	16	0.50	1.000	111418	03/15/06 11:45	03/16/06 18:18
BB3PZ102	SAMPLE	185586-010	28	0.50	1.000	111418	03/15/06 14:20	03/16/06 22:41
BB3SW102	SAMPLE	185586-011	42	0.50	1.000	111418	03/15/06 15:40	03/16/06 22:58
1065PZ7A	SAMPLE	185586-015	95	5.0	10.00	111418	03/15/06 09:45	03/16/06 21:13
1065PZ7B	SAMPLE	185586-016	61	13	25.00	111418	03/15/06 11:00	03/17/06 06:51
231GW09	SAMPLE	185586-017	35	0.50	1.000	111418	03/15/06 12:00	03/16/06 23:16
231GW11	SAMPLE	185586-018	4.8	0.50	1.000	111418	03/15/06 13:00	03/16/06 23:33
231GW23	SAMPLE	185586-019	11	0.50	1.000	111418	03/15/06 13:55	03/16/06 23:51
231GW25	SAMPLE	185586-020	0.80	0.50	1.000	111418	03/15/06 14:50	03/17/06 01:36
231GW28	SAMPLE	185586-021	1.9	0.50	1.000	111418	03/15/06 16:20	03/17/06 01:53
231GW27	SAMPLE	185586-022	70	5.0	10.00	111418	03/15/06 15:55	03/17/06 09:46
231GW20	SAMPLE	185586-023	9.6	0.50	1.000	111418	03/15/06 15:00	03/17/06 02:28
231GW18	SAMPLE	185586-024	73	5.0	10.00	111418	03/15/06 12:40	03/17/06 10:21
231GW17	SAMPLE	185586-025	41	0.50	1.000	111417	03/15/06 11:45	03/17/06 03:03
231GW06	SAMPLE	185586-026	47	0.50	1.000	111417	03/15/06 09:45	03/17/06 03:40
	BLANK	QC331968	ND	0.50	1.000	111417		03/16/06 16:13
	BLANK	QC331973	ND	0.50	1.000	111418		03/16/06 15:52

ND= Not Detected
RL= Reporting Limit

Batch QC Report

Chloride

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Sampled:	03/15/06 09:45
Matrix:	Water	Received:	03/16/06
Units:	mg/L		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Analyzed
	BS		QC331969		4.000	3.918	98	80-120			1.000	111417	03/16/06 16:31
	BSD		QC331970		4.000	3.881	97	80-120	1	20	1.000	111417	03/16/06 16:49
ZZZZZZZZZZ	MS	185577-011	QC331971	316.6	100.0	418.5	102	80-120			50.00	111417	03/16/06 17:26
ZZZZZZZZZZ	MSD	185577-011	QC331972		100.0	418.5	102	80-120	0	25	50.00	111417	03/16/06 17:51
	BS		QC331974		4.000	3.814	95	80-120			1.000	111418	03/16/06 16:09
	BSD		QC331975		4.000	3.968	99	80-120	4	20	1.000	111418	03/16/06 16:27
1065PZ7A	MS	185586-015	QC331976	76.26	20.00	96.59	102	80-120			10.00	111418	03/16/06 21:31
1065PZ7A	MSD	185586-015	QC331977		20.00	96.65	102	80-120	0	25	10.00	111418	03/16/06 21:48

866

RPD= Relative Percent Difference

63.0

Curtis & Tompkins, Ltd.

Batch QC Report

Fluoride

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Sampled:	03/15/06 09:45
Matrix:	Water	Received:	03/16/06
Units:	mg/L		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Analyzed
	BS		QC331969		2.000	1.999	100	80-120			1.000	111417	03/16/06 16:31
	BSD		QC331970		2.000	1.956	98	80-120	2	20	1.000	111417	03/16/06 16:49
ZZZZZZZZZZ	MS	185577-011	QC331971	<1.162	50.00	50.22	100	77-120			50.00	111417	03/16/06 17:26
ZZZZZZZZZZ	MSD	185577-011	QC331972		50.00	47.87	96	77-120	5	20	50.00	111417	03/16/06 17:51
	BS		QC331974		2.000	1.840	92	80-120			1.000	111418	03/16/06 16:09
	BSD		QC331975		2.000	1.920	96	80-120	4	20	1.000	111418	03/16/06 16:27
1065PZ7A	MS	185586-015	QC331976	0.05933	10.00	9.450	94	77-120			10.00	111418	03/16/06 21:31
1065PZ7A	MSD	185586-015	QC331977		10.00	9.502	94	77-120	1	20	10.00	111418	03/16/06 21:48

867

RPD= Relative Percent Difference

65.0

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrate Nitrogen

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Sampled:	03/15/06 09:45
Matrix:	Water	Received:	03/16/06
Units:	mg/L		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Analyzed
	BS		QC331969		1.000	0.9828	98	80-120			1.000	111417	03/16/06 16:31
	BSD		QC331970		1.000	0.9803	98	80-120	0	20	1.000	111417	03/16/06 16:49
ZZZZZZZZZZ	MS	185577-011	QC331971	<0.008826	25.00	23.97	96	80-120			50.00	111417	03/16/06 17:26
ZZZZZZZZZZ	MSD	185577-011	QC331972		25.00	24.67	99	80-120	3	25	50.00	111417	03/16/06 17:51
	BS		QC331974		1.000	0.9742	97	80-120			1.000	111418	03/16/06 16:09
	BSD		QC331975		1.000	1.008	101	80-120	3	20	1.000	111418	03/16/06 16:27
1065PZ7A	MS	185586-015	QC331976	2.502	5.000	7.414	98	80-120			10.00	111418	03/16/06 21:31
1065PZ7A	MSD	185586-015	QC331977		5.000	7.639	103	80-120	3	25	10.00	111418	03/16/06 21:48

868

RPD= Relative Percent Difference

67.0

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrite Nitrogen

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Sampled:	03/15/06 09:45
Matrix:	Water	Received:	03/16/06
Units:	mg/L		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Analyzed
	BS		QC331969		1.000	0.9855	99	80-120			1.000	111417	03/16/06 16:31
	BSD		QC331970		1.000	0.9635	96	80-120	2	20	1.000	111417	03/16/06 16:49
ZZZZZZZZZZ	MS	185577-011	QC331971	<0.01206	25.00	25.27	101	80-120			50.00	111417	03/16/06 17:26
ZZZZZZZZZZ	MSD	185577-011	QC331972		25.00	24.30	97	80-120	4	25	50.00	111417	03/16/06 17:51
	BS		QC331974		1.000	0.9563	96	80-120			1.000	111418	03/16/06 16:09
	BSD		QC331975		1.000	0.9833	98	80-120	3	20	1.000	111418	03/16/06 16:27
1065PZ7A	MS	185586-015	QC331976	<0.006664	5.000	4.837	97	80-120			10.00	111418	03/16/06 21:31
1065PZ7A	MSD	185586-015	QC331977		5.000	4.938	99	80-120	2	25	10.00	111418	03/16/06 21:48

869

RPD= Relative Percent Difference

69.0

Curtis & Tompkins, Ltd.

Batch QC Report

Sulfate

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Sampled:	03/15/06 09:45
Matrix:	Water	Received:	03/16/06
Units:	mg/L		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Analyzed
	BS		QC331969		10.00	10.03	100	80-120			1.000	111417	03/16/06 16:31
	BSD		QC331970		10.00	9.998	100	80-120	0	20	1.000	111417	03/16/06 16:49
ZZZZZZZZZZ	MS	185577-011	QC331971	120.7	250.0	374.8	102	80-120			50.00	111417	03/16/06 17:26
ZZZZZZZZZZ	MSD	185577-011	QC331972		250.0	368.1	99	80-120	2	25	50.00	111417	03/16/06 17:51
	BS		QC331974		10.00	9.622	96	80-120			1.000	111418	03/16/06 16:09
	BSD		QC331975		10.00	10.06	101	80-120	4	20	1.000	111418	03/16/06 16:27
1065PZ7A	MS	185586-015	QC331976	94.71	50.00	145.5	101	80-120			10.00	111418	03/16/06 21:31
1065PZ7A	MSD	185586-015	QC331977		50.00	145.3	101	80-120	0	25	10.00	111418	03/16/06 21:48

870

RPD= Relative Percent Difference

71.0

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185586 IC Water: EPA 300.0

Inst : IC01
Calnum : 606046871001
Units : mg/L

Date : 01-FEB-2006 13:28
X Axis : A

Reviewer: MCH
Inj Vol : 25 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	032_2.000	606046871002	L1	01-FEB-2006 13:28	S1888 (500X)
L2	032_3.000	606046871003	L2	01-FEB-2006 13:46	S1888 (100X)
L3	032_4.000	606046871004	L3	01-FEB-2006 14:03	S1888 (25X)
L4	032_5.000	606046871005	L4	01-FEB-2006 14:21	S1888 (10X)
L5	032_6.000	606046871006	L5	01-FEB-2006 14:38	S1888 (5X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Fluoride	0.2528	0.2613	0.2883	0.2940	0.3105	QORG		0.27855	0.003187	0.2814	1.000	0.990	
Chloride	0.1745	0.1698	0.1822	0.1890	0.2055	QORG		0.17357	0.001594	0.1842	1.000	0.990	
Nitrogen, Nitrite	0.3864	0.3575	0.3722	0.3676	0.3830	QORG		0.35745	0.005065	0.3733	1.000	0.990	
Nitrogen, Nitrate	0.4498	0.4302	0.4579	0.4590	0.4824	QORG		0.44011	0.008413	0.4558	1.000	0.990	
Sulfate	0.1233	0.1237	0.1314	0.1331	0.1412	QORG		0.12610	3.005E-4	0.1305	1.000	0.990	

871

QORG=Quadratic regression forced through origin

Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 300.0

Inst : IC01
Calnum : 606046871001 Date : 01-FEB-2006 13:28 Inj Vol: 25 uL

MAS 2/2/06

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	032_2.000	606046871002	L1	01-FEB-2006 13:28	S1888 (500X)
L2	032_3.000	606046871003	L2	01-FEB-2006 13:46	S1888 (100X)
L3	032_4.000	606046871004	L3	01-FEB-2006 14:03	S1888 (25X)
L4	032_5.000	606046871005	L4	01-FEB-2006 14:21	S1888 (10X)
L5	032_6.000	606046871006	L5	01-FEB-2006 14:38	S1888 (5X)

Analyte	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MnR^2	Flags
Fluoride	0.2528	0.2613	0.2883	0.2940	0.3105	QORG	A		0.278548	0.003187	mg/L	0.2814	1.000	0.990	
Chloride	0.1745	0.1698	0.1822	0.1890	0.2055	QORG	A		0.173571	0.001594	mg/L	0.1842	1.000	0.990	
Nitrogen, Nitrite	0.3864	0.3575	0.3722	0.3676	0.3830	QORG	A		0.357447	0.005065	mg/L	0.3733	1.000	0.990	
Bromide	0.0765	0.0774	0.0807	0.0787	0.0812	QORG	A		0.077484	1.818E-4	mg/L	0.0789	1.000	0.990	
Nitrogen, Nitrate	0.4498	0.4302	0.4579	0.4590	0.4824	QORG	A		0.440113	0.008413	mg/L	0.4558	1.000	0.990	
Orthophosphate (as P)	0.1717	0.2172	0.2560	0.2220	0.2112	QORG	A		0.242367	-0.00158	mg/L	0.2156	0.999	0.990	NT
Sulfate	0.1233	0.1237	0.1314	0.1331	0.1412	QORG	A		0.126102	3.005E-4	mg/L	0.1305	1.000	0.990	

MAS 2/1/06

872

NT = non-target

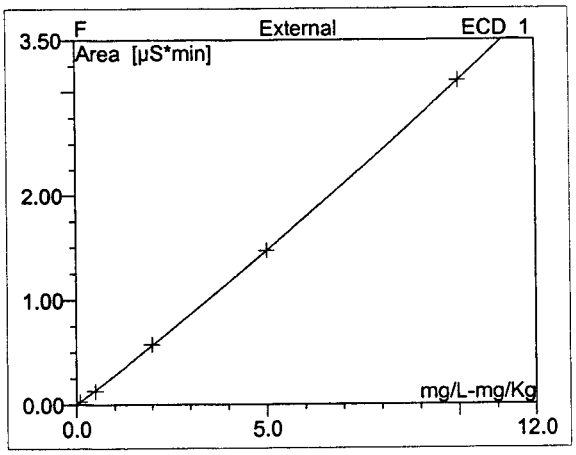
QORG=Quadratic regression forced through origin

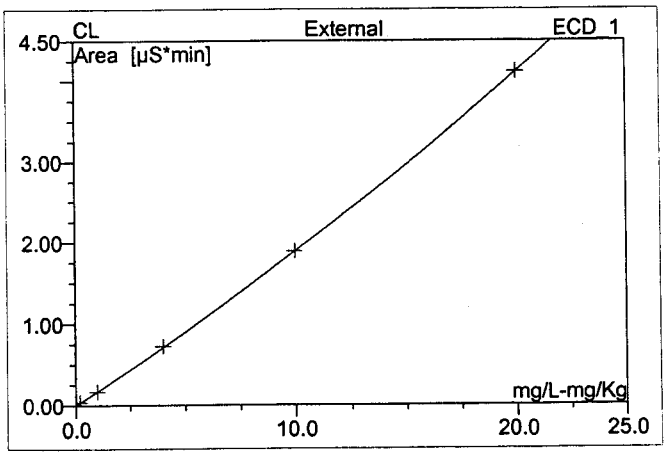
Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

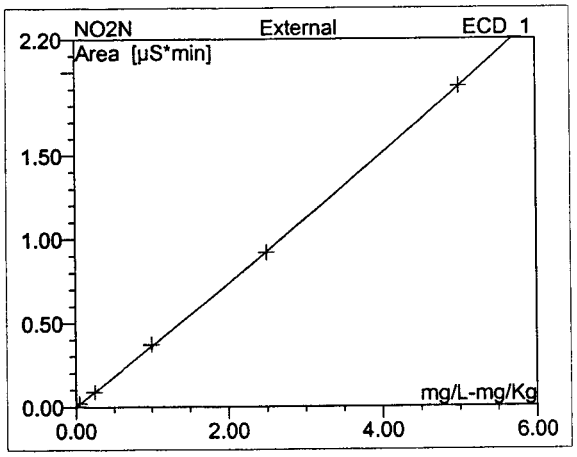
606046871001

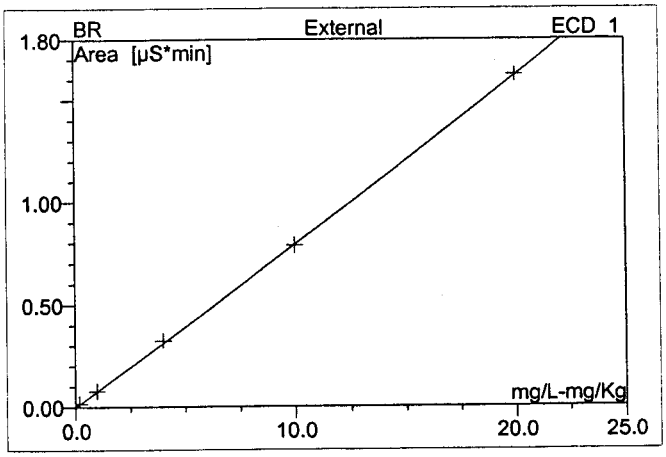
IC01 Calibration Batch Report

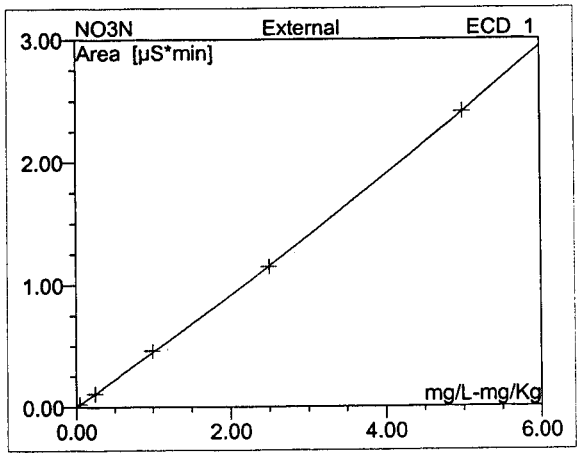
Sequence:	032	Inj. Vol.:	25.0
Program:	IC01-7AN	Operator:	PC_NEWIC
Inj. Date/Time:	02/01/06 14:03	Run Time:	15.00

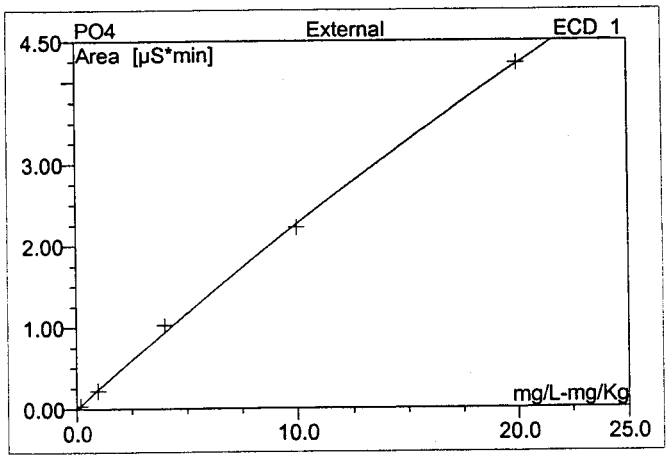




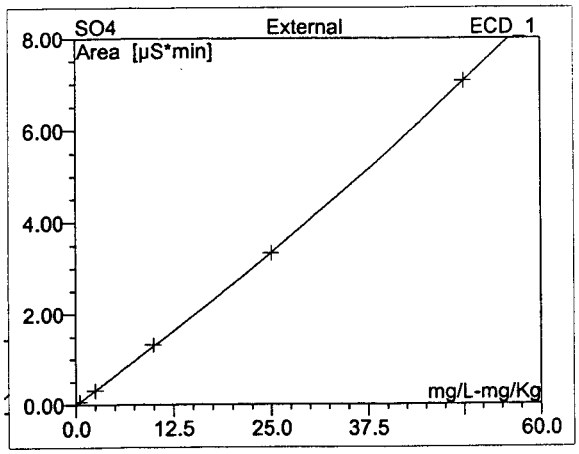








Sequence:	032	*Inj. Vol.:*	25.0
Program:	IC01-7AN	*Operator:*	n.a.
Inj. Date/Time:	02/01/06 14:03	*Run Time:*	15.00



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	3.37	F	Quad	5	0.000000	0.278548	0.003187	99.966068
2	4.89	CL	Quad	5	0.000000	0.173571	0.001594	99.916153
4	5.79	NO2N	Quad	5	0.000000	0.357447	0.005065	99.979455
5	7.33	BR	Quad	5	0.000000	0.077484	0.000182	99.987414
6	8.26	NO3N	Quad	5	0.000000	0.440112	0.008413	99.970779
7	10.28	PO4	Quad	5	0.000000	0.242367	-0.001578	99.885417
8	12.17	SO4	Quad	5	0.000000	0.126102	0.000301	99.958961
AVERAGE:					0.000000	0.242233	0.002452	99.952035

No.	Name	Area µS*min F ECD_1	Area µS*min CL ECD_1	Area µS*min NO2N ECD_1	Area µS*min BR ECD_1	Area µS*min NO3N ECD_1	Area µS*min PO4 ECD_1	Area µS*min SO4 ECD_1
2	ICAL,L1,S188	0.025275	0.034903	0.019321	0.015298	0.022490	0.034330	0.061629
3	ICAL,L2,S188	0.130653	0.169780	0.089380	0.077435	0.107540	0.217220	0.309323
4	ICAL,L3,S188	0.576603	0.728921	0.372151	0.322907	0.457889	1.024032	1.314019
5	ICAL,L4,S188	1.469972	1.890327	0.919106	0.786634	1.147425	2.219833	3.327253
6	ICAL,L5,S188	3.104502	4.110030	1.915021	1.623599	2.411883	4.224545	7.058845

No.	Name	Height µS F ECD_1	Height µS CL ECD_1	Height µS NO2N ECD_1	Height µS BR ECD_1	Height µS NO3N ECD_1	Height µS PO4 ECD_1	Height µS SO4 ECD_1
2	ICAL,L1,S188	0.214888	0.258158	0.107142	0.073826	0.090044	0.092472	0.173918
3	ICAL,L2,S188	1.091262	1.255538	0.520346	0.357736	0.437902	0.520594	0.860712
4	ICAL,L3,S188	4.846146	5.414854	2.167724	1.511584	1.866278	2.566166	3.696382
5	ICAL,L4,S188	12.797028	14.219142	5.393734	3.770806	4.728312	6.027548	9.511224
6	ICAL,L5,S188	27.169356	31.375536	11.293560	7.962244	10.100652	12.291378	20.783882

No.	Name	Amount mg/L-mg/Kg F ECD_1	Amount mg/L-mg/Kg CL ECD_1	Amount mg/L-mg/Kg NO2N ECD_1	Amount mg/L-mg/Kg BR ECD_1	Amount mg/L-mg/Kg NO3N ECD_1	Amount mg/L-mg/Kg PO4 ECD_1	Amount mg/L-mg/Kg SO4 ECD_1
2	ICAL,L1,S188	0.090645	0.200718	0.054011	0.197347	0.051052	0.141776	0.488153
3	ICAL,L2,S188	0.466559	0.969523	0.249171	0.997037	0.243215	0.901538	2.438779
4	ICAL,L3,S188	2.023200	4.048958	1.026211	4.127423	1.020484	4.348224	10.173592
5	ICAL,L4,S188	4.992160	9.976525	2.483881	9.921246	2.488719	9.781943	24.906875
6	ICAL,L5,S188	10.001057	20.003598	5.002836	20.014099	5.001893	20.046763	50.015285

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Inhibit Integration	On	ECD_1
2	3.000	Inhibit Integration	Off	ECD_1
3	3.010	Minimum Area	0.001 "[Signal]*min"	ECD_1
4	3.011	Peak Slice	0.05 s	ECD_1

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Comment	Amount ICAL,L1,S1888,500
1	F	3.347 min	5.000 RG	External	Area	Quad	Auto			0.100000
2	*CL*	*4.800 min*	*5.000 RG*	*External*	*Area*	*Quad*	*Auto*			*0.200000*
3	NO2N	5.653 min	5.000 RG	External	Area	Quad	Auto			0.050000
4	BR	7.107 min	5.000 RG	External	Area	Quad	Auto			0.200000
5	NO3N	7.997 min	10.000 RG	External	Area	Quad	Auto			0.050000
6	PO4	9.950 min	10.000 RG	External	Area	Quad	Auto			0.200000
7	SO4	11.803 min	10.000 RG	External	Area	Quad	Auto			0.500000

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Amount ICAL,L2,S1888,100	Amount ICAL,L3,S1888,25	Amount ICAL,L4,S1888,10	Amount ICAL,L5,S1888,5
1	F	3.347 min	0.500000	2.000000	5.000000	10.000000
2	*CL*	*4.800 min*	*1.000000*	*4.000000*	*10.000000*	*20.000000*
3	NO2N	5.653 min	0.250000	1.000000	2.500000	5.000000
4	BR	7.107 min	1.000000	4.000000	10.000000	20.000000
5	NO3N	7.997 min	0.250000	1.000000	2.500000	5.000000
6	PO4	9.950 min	1.000000	4.000000	10.000000	20.000000
7	SO4	11.803 min	2.500000	10.000000	25.000000	50.000000

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Resp.Fact.	Comment	Amount ICAL,L1,S1888,500	Amount ICAL,L2,S1888,100	Amount ICAL,L3,S1888,25	Amount ICAL,L4,S1888,10
1	F	3.347 min	1.000000		0.100000	0.500000	2.000000	5.000000
2	*CL*	*4.800 min*	*1.000000*		*0.200000*	*1.000000*	*4.000000*	*10.000000*
3	NO2N	5.653 min	1.000000		0.050000	0.250000	1.000000	2.500000
4	BR	7.107 min	1.000000		0.200000	1.000000	4.000000	10.000000
5	NO3N	7.997 min	1.000000		0.050000	0.250000	1.000000	2.500000
6	PO4	9.950 min	1.000000		0.200000	1.000000	4.000000	10.000000
7	SO4	11.803 min	1.000000		0.500000	2.500000	10.000000	25.000000

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Amount ICAL,L5,S1888,5
1	F	3.347 min	10.000000
2	*CL*	*4.800 min*	*20.000000*
3	NO2N	5.653 min	5.000000
4	BR	7.107 min	20.000000
5	NO3N	7.997 min	5.000000
6	PO4	9.950 min	20.000000
7	SO4	11.803 min	50.000000

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

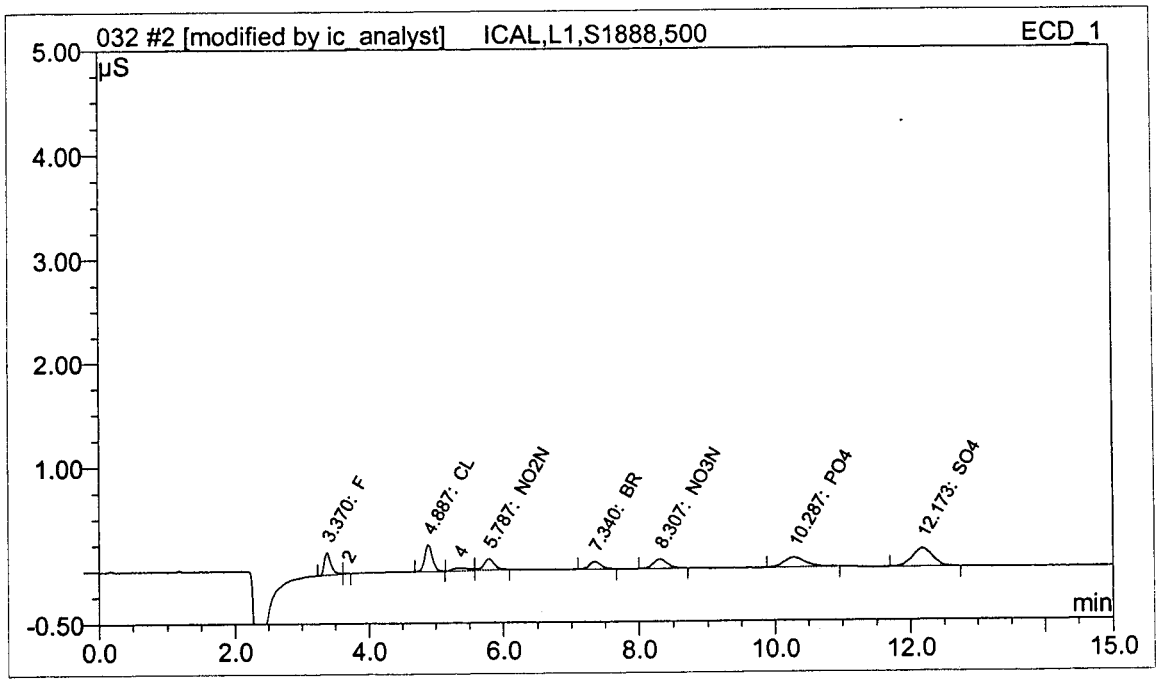
No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time	Calib. Comment
1	☒	ICAL,L1,S1888,500	2	70	25.0	1.0000	1.0000	1.0000	2/1/2006 1:28:35 PM	Ok
2	☒	ICAL,L2,S1888,100	3	35	25.0	1.0000	1.0000	1.0000	2/1/2006 1:46:06 PM	Ok
3	☒	ICAL,L3,S1888,25	4	35	25.0	1.0000	1.0000	1.0000	2/1/2006 2:03:37 PM	Ok
4	☒	ICAL,L4,S1888,10	5	36	25.0	1.0000	1.0000	1.0000	2/1/2006 2:21:08 PM	Ok
5	☒	ICAL,L5,S1888,5	6	37	25.0	1.0000	1.0000	1.0000	2/1/2006 2:38:38 PM	Ok

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L1,S1888,500	**Sample No.:**	2
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:28 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	0.025275	0.0906	0.0906	
3	CL	4.887	0.034903	0.2007	0.2007	
5	NO2N	5.787	0.019321	0.0540	0.0540	
6	BR	7.340	0.015298	0.1973	0.1973	
7	NO3N	8.307	0.022490	0.0511	0.0511	
8	PO4	10.287	0.034330	0.1418	0.1418	
9	SO4	12.173	0.061629	0.4882	0.4882	



ANALYZED BY: _____

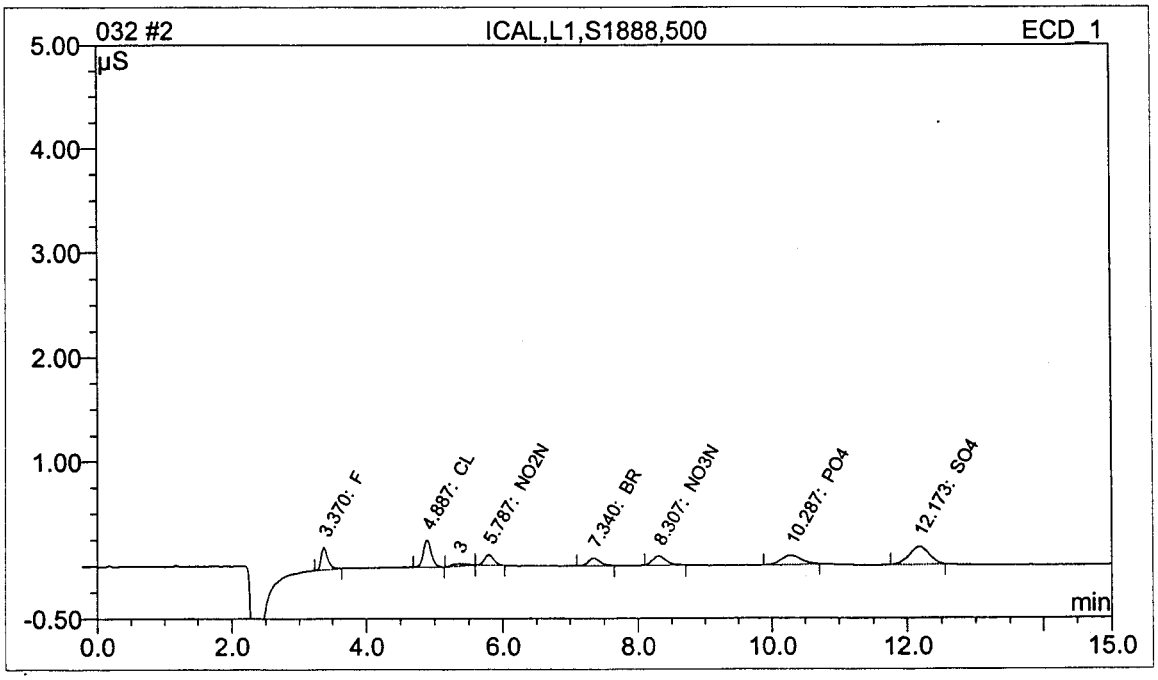
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L1,S1888,500	**Sample No.:**	2
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:28 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	0.024236	0.0869	0.0869	
2	CL	4.887	0.034903	0.2007	0.2007	
4	NO2N	5.787	0.015698	0.0439	0.0439	
5	BR	7.340	0.015043	0.1941	0.1941	
6	NO3N	8.307	0.020103	0.0456	0.0456	
7	PO4	10.287	0.031075	0.1283	0.1283	
8	SO4	12.173	0.056768	0.4497	0.4497	



ANALYZED BY: _____

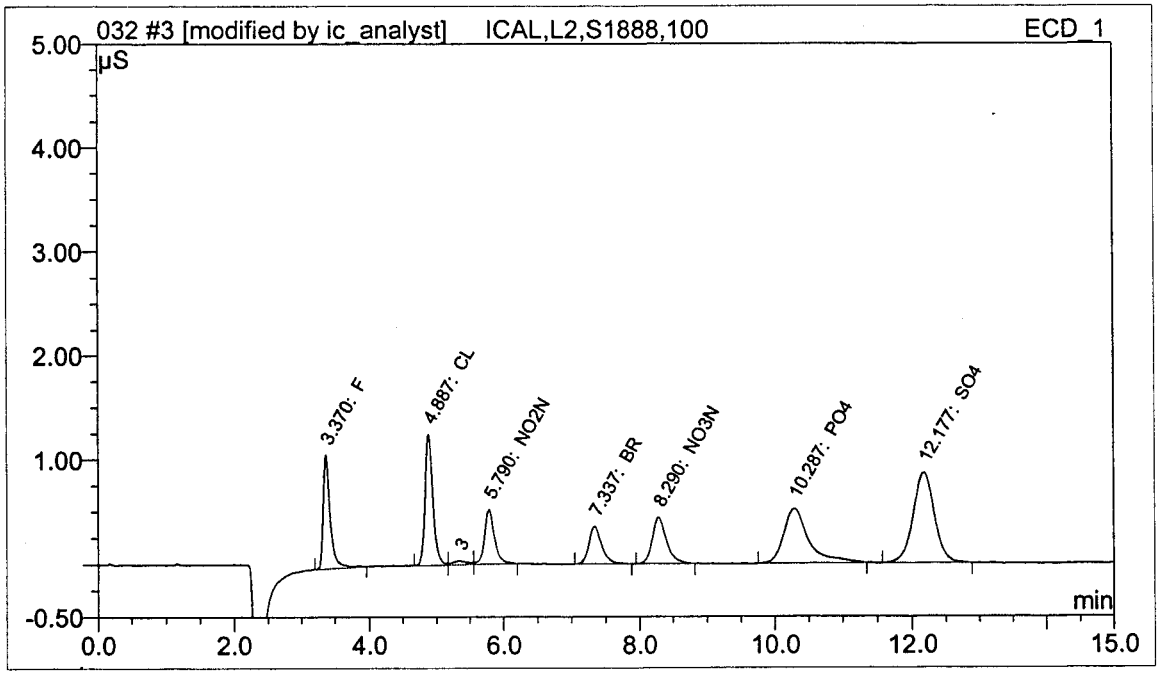
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L2,S1888,100	**Sample No.:**	3
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:46 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	0.130653	0.4666	0.4666	
2	CL	4.887	0.169780	0.9695	0.9695	
4	NO2N	5.790	0.089380	0.2492	0.2492	
5	BR	7.337	0.077435	0.9970	0.9970	
6	NO3N	8.290	0.107540	0.2432	0.2432	
7	PO4	10.287	0.217220	0.9015	0.9015	
8	SO4	12.177	0.309323	2.4388	2.4388	



ANALYZED BY: _____

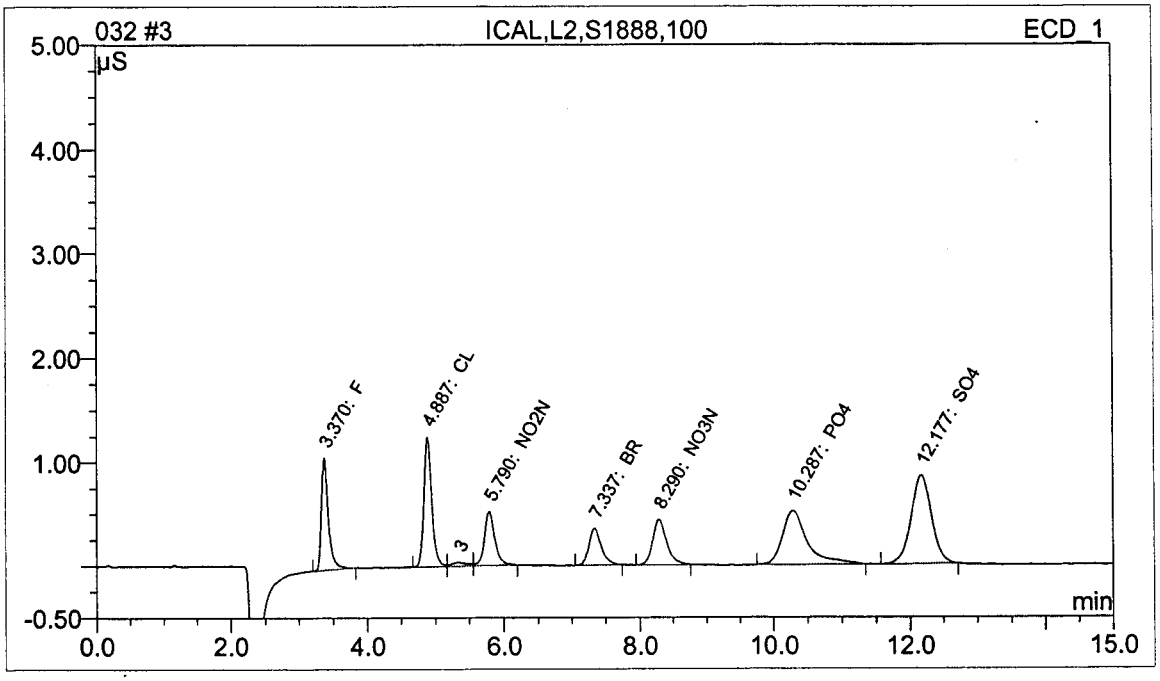
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L2,S1888,100	**Sample No.:**	3
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:46 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	0.127500	0.4556	0.4556	
2	CL	4.887	0.169780	0.9695	0.9695	
4	NO2N	5.790	0.089380	0.2492	0.2492	
5	BR	7.337	0.075668	0.9749	0.9749	
6	NO3N	8.290	0.106521	0.2410	0.2410	
7	PO4	10.287	0.217220	0.9015	0.9015	
8	SO4	12.177	0.303977	2.3979	2.3979	



ANALYZED BY: _____

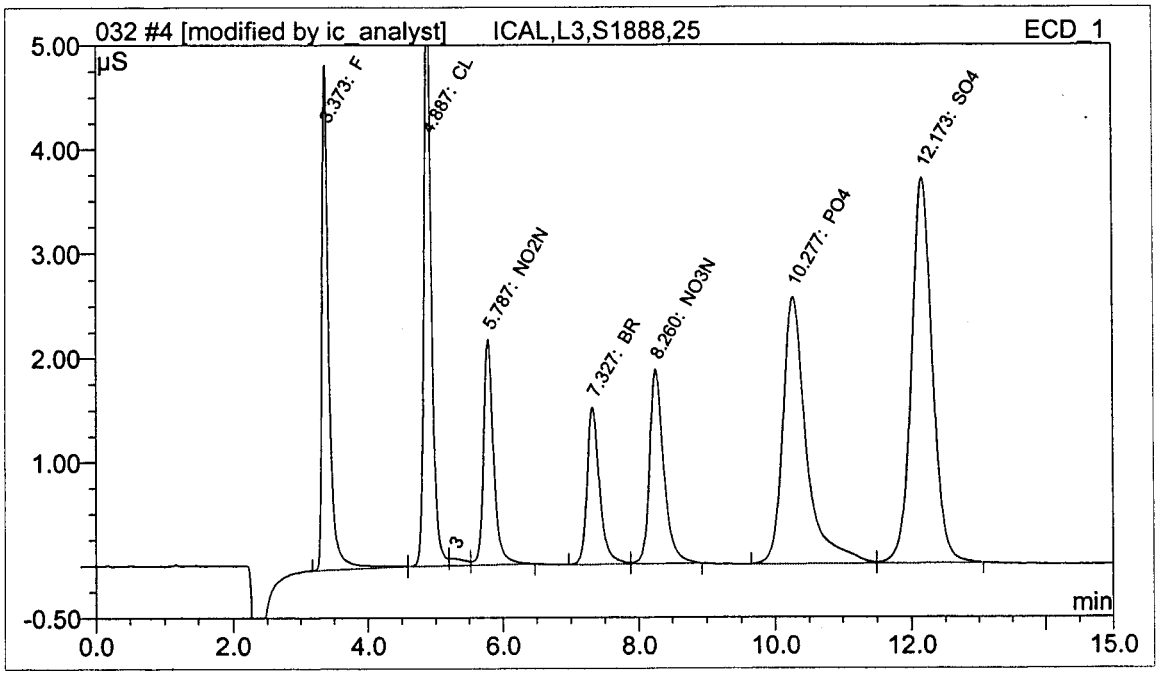
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L3,S1888,25	**Sample No.:**	4
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:03 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.373	0.576603	2.0232	2.0232	
2	CL	4.887	0.728921	4.0490	4.0490	
4	NO2N	5.787	0.372151	1.0262	1.0262	
5	BR	7.327	0.322907	4.1274	4.1274	
6	NO3N	8.260	0.457889	1.0205	1.0205	
7	PO4	10.277	1.024032	4.3482	4.3482	
8	SO4	12.173	1.314019	10.1736	10.1736	



ANALYZED BY: _____

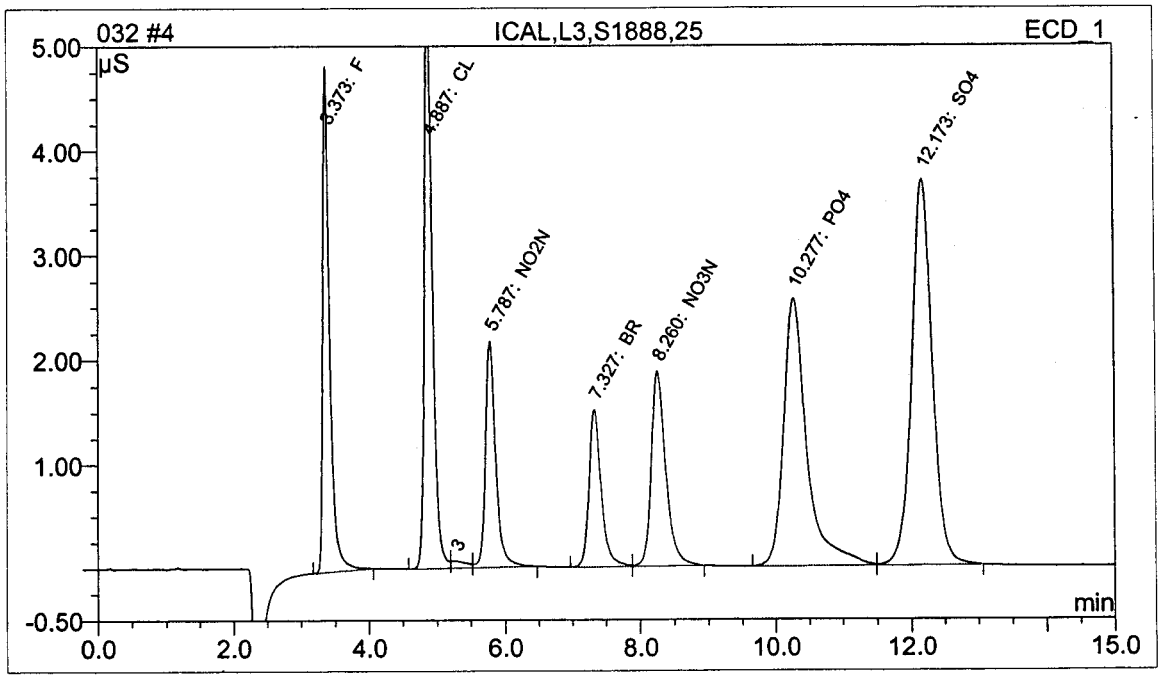
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L3,S1888,25	**Sample No.:**	4
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:03 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.373	0.560194	1.9831	1.9831	
2	CL	4.887	0.728921	4.0490	4.0490	
4	NO2N	5.787	0.372151	1.0262	1.0262	
5	BR	7.327	0.322907	4.1274	4.1274	
6	NO3N	8.260	0.457889	1.0205	1.0205	
7	PO4	10.277	1.024032	4.3482	4.3482	
8	SO4	12.173	1.314019	10.1736	10.1736	



ANALYZED BY: _____

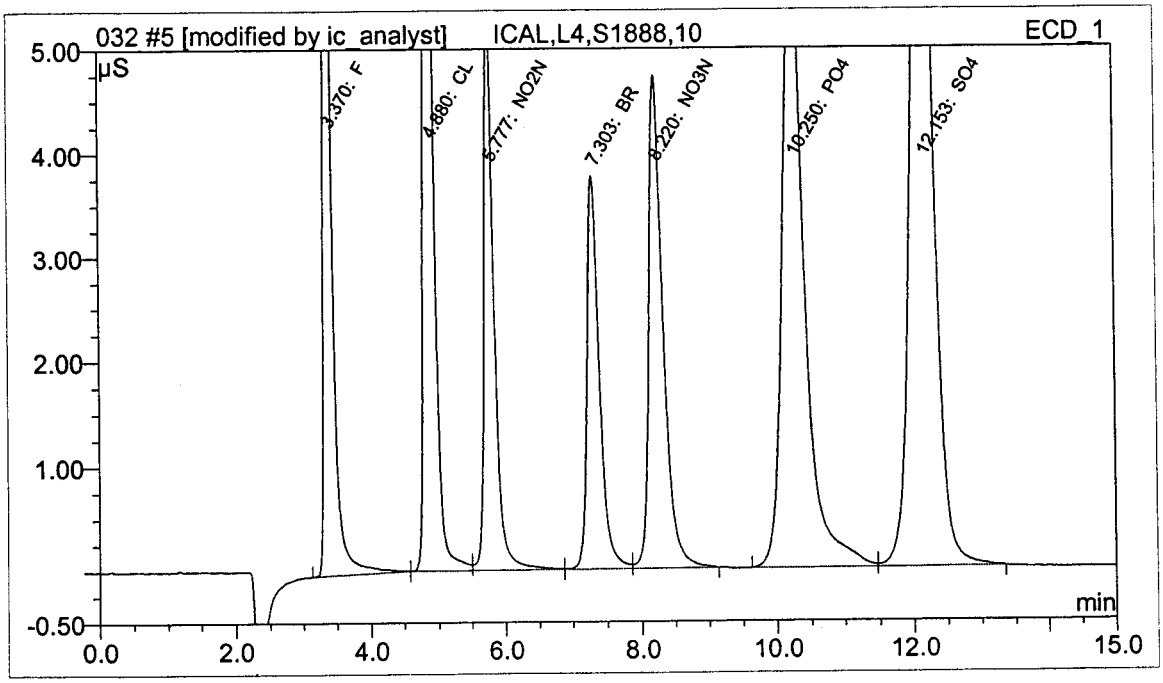
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L4,S1888,10	**Sample No.:**	5
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:21 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	1.469972	4.9922	4.9922	
2	CL	4.880	1.890327	9.9765	9.9765	
3	NO2N	5.777	0.919106	2.4839	2.4839	
4	BR	7.303	0.786634	9.9212	9.9212	
5	NO3N	8.220	1.147425	2.4887	2.4887	
6	PO4	10.250	2.219833	9.7819	9.7819	
7	SO4	12.153	3.327253	24.9069	24.9069	



ANALYZED BY: _____

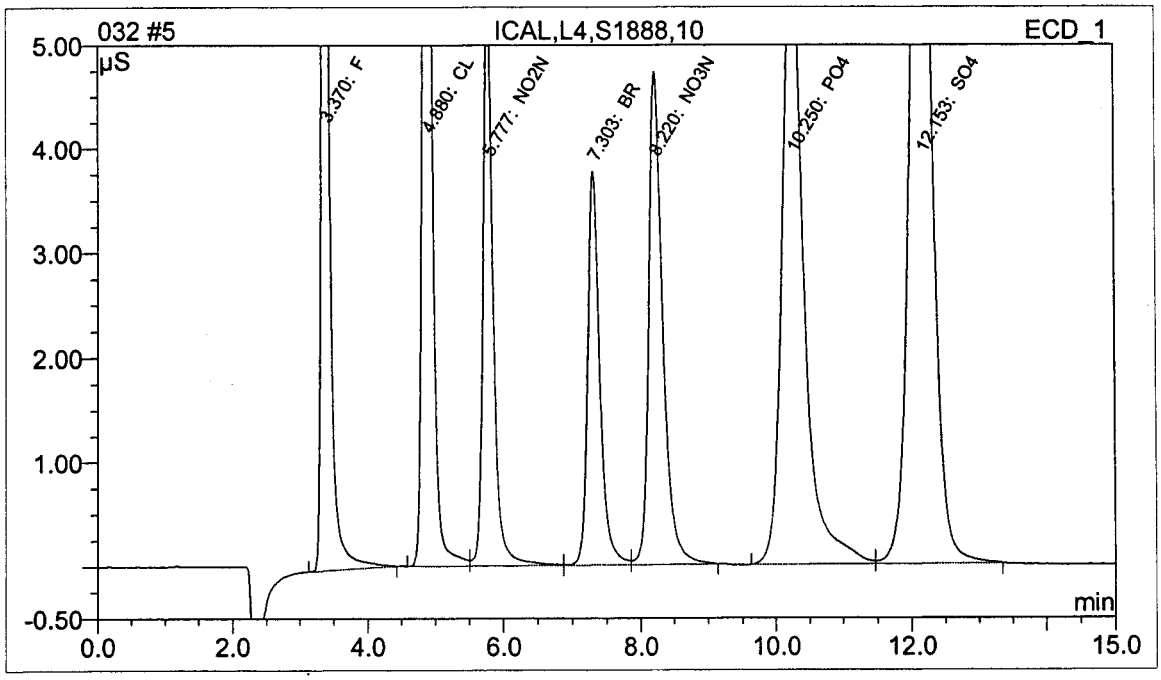
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L4,S1888,10	**Sample No.:**	5
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:21 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	1.463674	4.9860	4.9860	
2	CL	4.880	1.890327	9.9765	9.9765	
3	NO2N	5.777	0.919106	2.4839	2.4839	
4	BR	7.303	0.786634	9.9212	9.9212	
5	NO3N	8.220	1.147425	2.4887	2.4887	
6	PO4	10.250	2.219833	9.7819	9.7819	
7	SO4	12.153	3.327253	24.9069	24.9069	



ANALYZED BY: _____

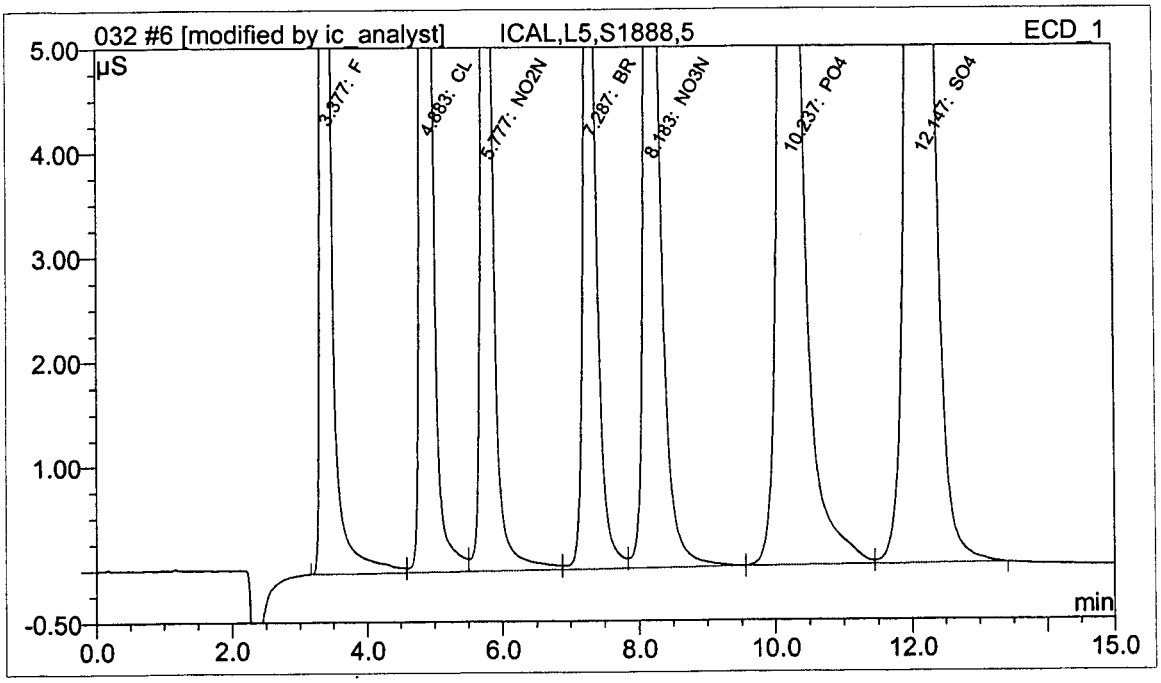
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L5,S1888,5	**Sample No.:**	6
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:38 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.377	3.104502	10.0011	10.0011	
2	CL	4.883	4.110030	20.0036	20.0036	
3	NO2N	5.777	1.915021	5.0028	5.0028	
4	BR	7.287	1.623599	20.0141	20.0141	
5	NO3N	8.183	2.411883	5.0019	5.0019	
6	PO4	10.237	4.224545	20.0468	20.0468	
7	SO4	12.147	7.058845	50.0153	50.0153	



ANALYZED BY: _____

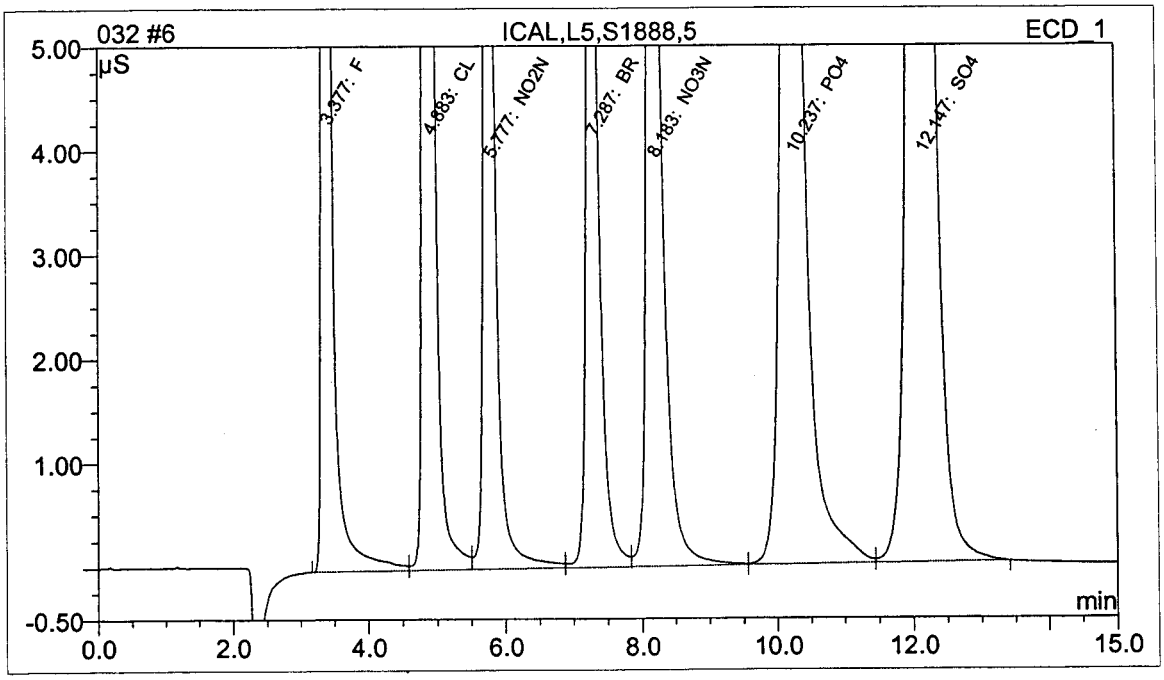
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L5,S1888,5	**Sample No.:**	6
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:38 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.377	3.105467	10.0011	10.0011	
2	CL	4.883	4.111657	20.0037	20.0037	
3	NO2N	5.777	1.918949	5.0029	5.0029	
4	BR	7.287	1.627431	20.0145	20.0145	
5	NO3N	8.183	2.420882	5.0021	5.0021	
6	PO4	10.237	4.233171	20.0470	20.0470	
7	SO4	12.147	7.061876	50.0155	50.0155	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185586 IC Water
EPA 300.0

Inst : IC01
Calnum : 606046871001 Cal Date: 01-FEB-2006

ICV 606046871007 (032_7.000 01-FEB-2006) stds: S1085 (5X)

Analyte	Spiked	Quant	Units	%D	Max	Flags
Fluoride	1.000	0.9085	mg/L	-9	10	
Chloride	2.000	1.856	mg/L	-7	10	
Nitrogen, Nitrite	0.5000	0.4846	mg/L	-3	10	
Nitrogen, Nitrate	0.5000	0.4506	mg/L	-10	10	
Sulfate	5.000	4.911	mg/L	-2	10	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606046871007 File : 032_7.000 Time : 01-FEB-2006 14:56
Cal : 606046871001 Caldate: 01-FEB-2006

Standards: S1085 (5X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Fluoride	0.2814	0.2557	1.000	0.9085	mg/L	-9	10	
Chloride	0.1842	0.1638	2.000	1.856	mg/L	-7	10	
Nitrogen, Nitrite	0.3733	0.3488	0.5000	0.4846	mg/L	-3	10	
Bromide	0.0789	0.0774	2.000	1.990	mg/L	-1	10	
Nitrogen, Nitrate	0.4558	0.4001	0.5000	0.4506	mg/L	-10	10	
Orthophosphate (as P)	0.2156	0.2973	2.000	2.494	mg/L	**25**	10	v+ *** NT
Sulfate	0.1305	0.1253	5.000	4.911	mg/L	-2	10	

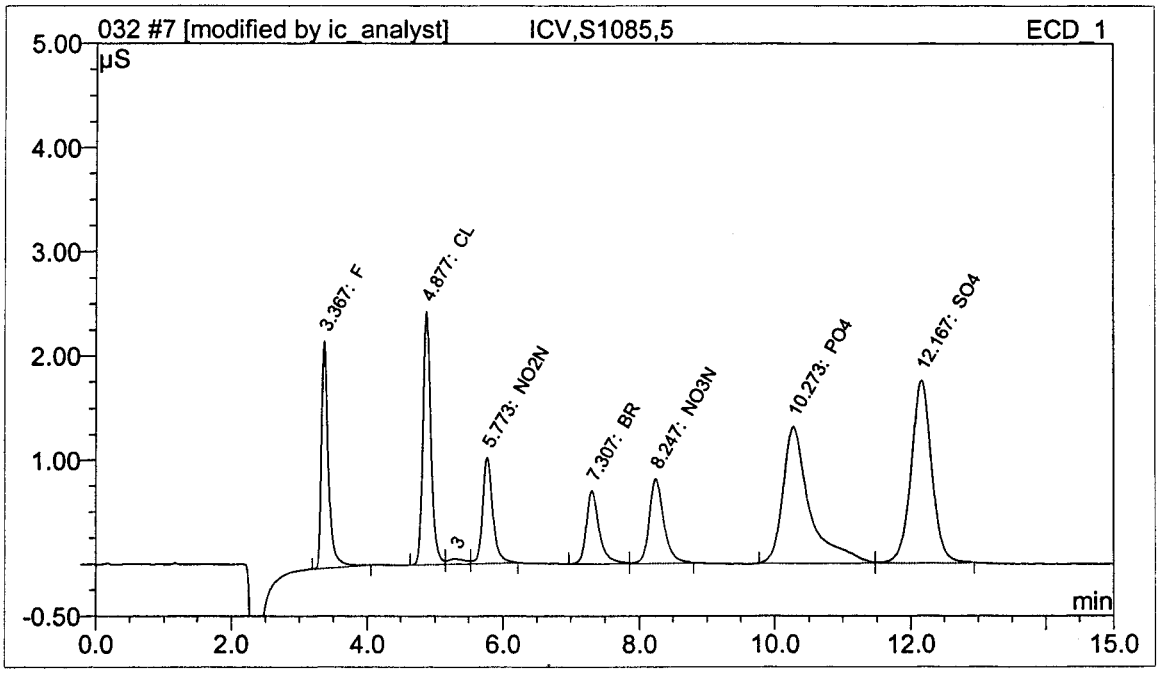
MAS 2/1/06

+=high bias v=ICV

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:56 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.367	0.255692	0.9085	0.9085	
2	CL	4.877	0.327591	1.8557	1.8557	
4	NO2N	5.773	0.174392	0.4846	0.4846	
5	BR	7.307	0.154881	1.9896	1.9896	
6	NO3N	8.247	0.200041	0.4506	0.4506	
7	PO4	10.273	0.594629	2.4939	2.4939	
8	SO4	12.167	0.626486	4.9106	4.9106	



ANALYZED BY: _____

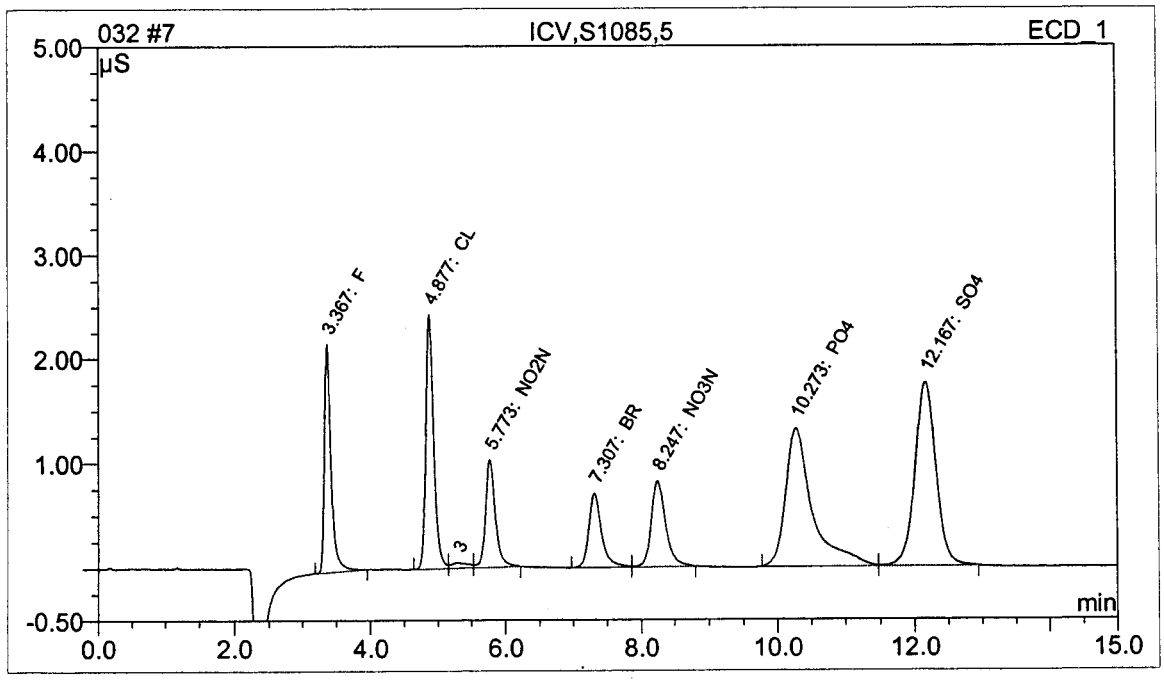
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:56 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.367	0.253367	0.9003	0.9003	
2	CL	4.877	0.327591	1.8557	1.8557	
4	NO2N	5.773	0.174392	0.4846	0.4846	
5	BR	7.307	0.154881	1.9896	1.9896	
6	NO3N	8.247	0.200041	0.4506	0.4506	
7	PO4	10.273	0.594629	2.4939	2.4939	
8	SO4	12.167	0.626486	4.9106	4.9106	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185586 IC Water: EPA 300.0

Inst : IC03
Calnum : 626087283001
Units : mg/L

Date : 01-MAR-2006 15:02
X Axis : A

Reviewer: MCH
Inj Vol : 25 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	060_2.000	626087283002	L1	01-MAR-2006 15:02	S1888 (500X)
L2	060_3.000	626087283003	L2	01-MAR-2006 15:20	S1888 (100X)
L3	060_4.000	626087283004	L3	01-MAR-2006 15:39	S1888 (25X)
L4	060_5.000	626087283005	L4	01-MAR-2006 15:57	S1888 (10X)
L5	060_6.000	626087283006	L5	01-MAR-2006 16:15	S1888 (5X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Fluoride	0.1716	0.1970	0.2011	0.2058	0.2193	QORG		0.19367	0.002557	0.1990	1.000	0.990	
Chloride	0.2004	0.1474	0.1573	0.1617	0.1760	QORG		0.14901	0.001346	0.1686	1.000	0.990	
Nitrogen, Nitrite	0.2691	0.2776	0.3037	0.3039	0.3170	QORG		0.29330	0.004711	0.2943	1.000	0.990	
Nitrogen, Nitrate	0.3560	0.3834	0.3978	0.3870	0.4128	QORG		0.37136	0.008191	0.3874	1.000	0.990	
Sulfate	0.1066	0.1006	0.1099	0.1118	0.1203	QORG		0.10436	3.187E-4	0.1099	1.000	0.990	

896

QORG=Quadratic regression forced through origin

Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 300.0

Inst : IC03
Calnum : 626087283001 Date : 01-MAR-2006 15:02 Inj Vol: 25 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	060_2.000	626087283002	L1	01-MAR-2006 15:02	S1888 (500X)
L2	060_3.000	626087283003	L2	01-MAR-2006 15:20	S1888 (100X)
L3	060_4.000	626087283004	L3	01-MAR-2006 15:39	S1888 (25X)
L4	060_5.000	626087283005	L4	01-MAR-2006 15:57	S1888 (10X)
L5	060_6.000	626087283006	L5	01-MAR-2006 16:15	S1888 (5X)

Mar 3/2/06

Analyte	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MnR^2	Flg
Fluoride	0.1716	0.1970	0.2011	0.2058	0.2193	QORG	A		0.19367	0.002557	mg/L	0.1990	1.000	0.990	
Chloride	0.2004	0.1474	0.1573	0.1617	0.1760	QORG	A		0.14901	0.001346	mg/L	0.1686	1.000	0.990	
Nitrogen, Nitrite	0.2691	0.2776	0.3037	0.3039	0.3170	QORG	A		0.29330	0.004711	mg/L	0.2943	1.000	0.990	
Bromide	0.0471	0.0627	0.0663	0.0635	0.0673	QORG	A		0.06168	2.750E-4	mg/L	0.0614	1.000	0.990	
Nitrogen, Nitrate	0.3560	0.3834	0.3978	0.3870	0.4128	QORG	A		0.37136	0.008191	mg/L	0.3874	1.000	0.990	
Orthophosphate (as P)	0.0986	0.1086	0.1241	0.1248	0.1349	QORG	A		0.11651	9.164E-4	mg/L	0.1182	1.000	0.990	NA
Sulfate	0.1066	0.1006	0.1099	0.1118	0.1203	QORG	A		0.10436	3.187E-4	mg/L	0.1099	1.000	0.990	

MRS 3/2/06

897

QORG=Quadratic regression forced through origin

Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

626087283001

Sequence: 060
Operator: ic_analyst

Printed: 3/2/2006 11:25:27 AM

Title: Anions
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006
Timebase: IC3_DX120
#Samples: 8

Created: 8/1/2003 11:03:14 AM by ic_analyst
Last Update: 3/1/2006 4:23:55 PM by ic_analyst

No.	*Batch	Name	Comment	Dil. Factor	Program	Status	Inj. Date/Time
1	CAL-060	IB		1.0000	IC03-7AN	Finished	3/1/2006 2:43:54 PM
2	CAL-060	ICAL, L1,S1888,500		1.0000	IC03-7AN	Finished	3/1/2006 3:02:19 PM
3	CAL-060	ICAL, L2,S1888,100		1.0000	IC03-7AN	Finished	3/1/2006 3:20:44 PM
4	CAL-060	ICAL, L3,S1888,25		1.0000	IC03-7AN	Finished	3/1/2006 3:39:08 PM
5	CAL-060	ICAL, L4,S1888,10		1.0000	IC03-7AN	Finished	3/1/2006 3:57:33 PM
6	CAL-060	ICAL, L5,S1888,5		1.0000	IC03-7AN	Finished	3/1/2006 4:15:58 PM
7	CAL-060	ICV,S1085,5		1.0000	IC03-7AN	Finished	3/1/2006 4:34:23 PM
8	CAL-060	ICB		1.0000	IC03-7AN	Finished	3/1/2006 4:52:47 PM

Sequence: 060
Operator: ic_analyst

Printed: 3/2/2006 11:25:27 AM

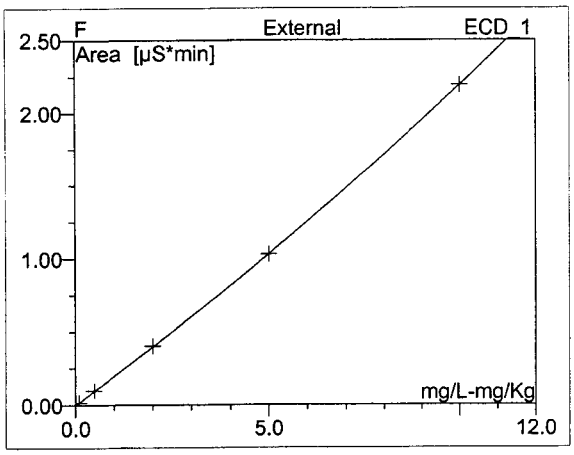
Title: Anions
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006
Timebase: IC3_DX120
#Samples: 8

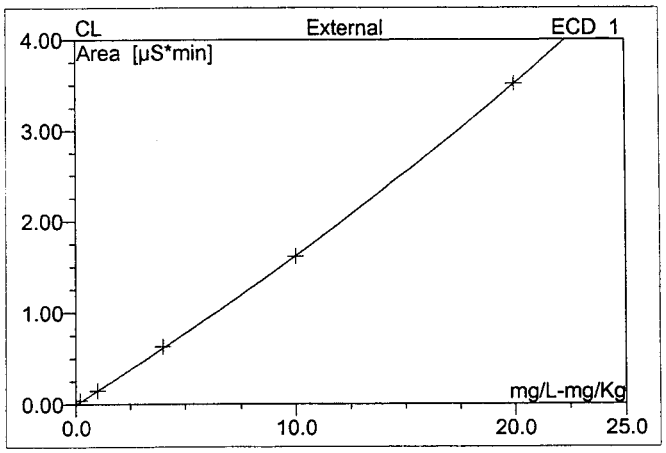
Created: 8/1/2003 11:03:14 AM by ic_analyst
Last Update: 3/1/2006 4:23:55 PM by ic_analyst

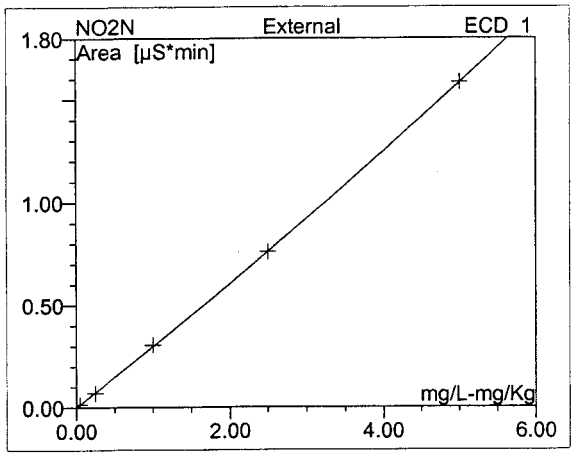
No.	*Batch	Name	Comment	Method	Type	Inj. Vol.	*operator	*PDF
1	CAL-060	IB		IC03-7AN_CAL	Unknown	25.0	MRS	1
2	CAL-060	ICAL, L1,S1888,500		IC03-7AN_CAL	Standard	25.0	MRS	1
3	CAL-060	ICAL, L2,S1888,100		IC03-7AN_CAL	Standard	25.0	MRS	1
4	CAL-060	ICAL, L3,S1888,25		IC03-7AN_CAL	Standard	25.0	MRS	1
5	CAL-060	ICAL, L4,S1888,10		IC03-7AN_CAL	Standard	25.0	MRS	1
6	CAL-060	ICAL, L5,S1888,5		IC03-7AN_CAL	Standard	25.0	MRS	1
7	CAL-060	ICV,S1085,5		IC03-7AN_CAL	Unknown	25.0	MRS	1
8	CAL-060	ICB		IC03-7AN_CAL	Unknown	25.0	MRS	1

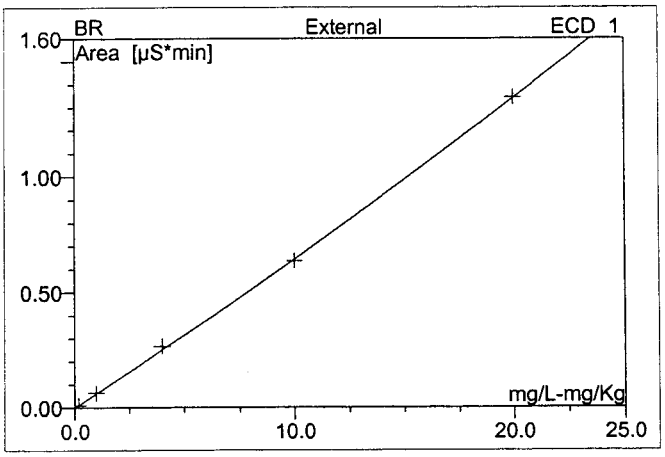
IC03 Calibration Batch Report

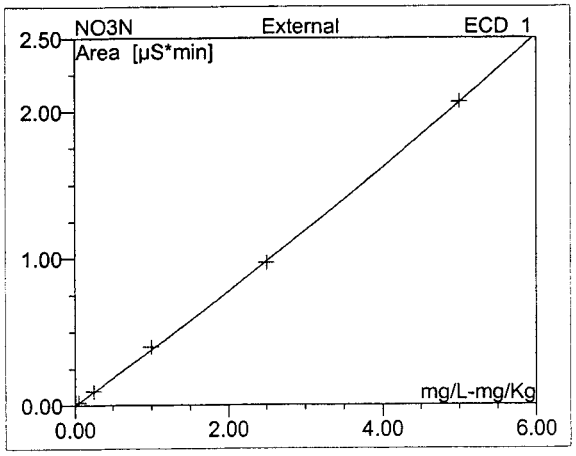
Sequence:	060	Inj. Vol.:	25.0
Program:	IC03-7AN	Operator:	PC_NEWIC
Inj. Date/Time:	03/01/06 15:39	Run Time:	16.00

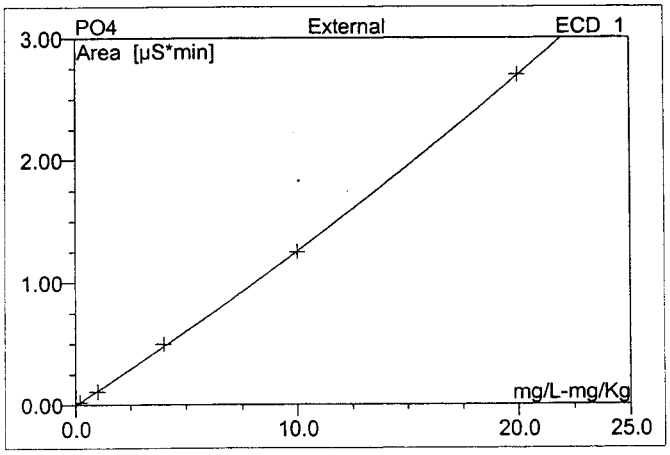




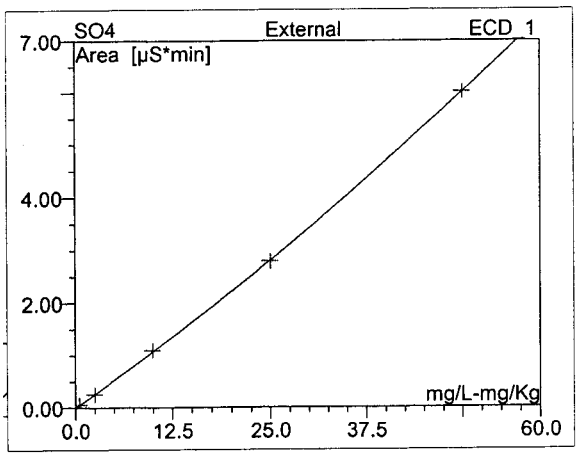








Sequence:	**060**	*Inj. Vol.:*	**25.0**
Program:	**IC03-7AN**	*Operator:*	**n.a.**
Inj. Date/Time:	**03/01/06 15:39**	*Run Time:*	**16.00**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	2.870	F	Quad	5	0.000000	0.193669	0.002557	99.951556
2	4.217	CL	Quad	5	0.000000	0.149009	0.001346	99.909274
3	5.010	NO2N	Quad	5	0.000000	0.293301	0.004711	99.980499
4	6.363	BR	Quad	5	0.000000	0.061677	0.000275	99.961186
5	7.183	NO3N	Quad	5	0.000000	0.371363	0.008191	99.950755
6	9.350	PO4	Quad	5	0.000000	0.116513	0.000916	99.934448
7	11.167	SO4	Quad	5	0.000000	0.104363	0.000319	99.936780
AVERAGE:					0.000000	0.184271	0.002616	99.946357

No.	Name	Area µS*min F ECD_1	Area µS*min CL ECD_1	Area µS*min NO2N ECD_1	Area µS*min BR ECD_1	Area µS*min NO3N ECD_1	Area µS*min PO4 ECD_1	Area µS*min SO4 ECD_1
2	ICAL, L1,S18	0.017161	0.040074	0.013455	0.009416	0.017801	0.019729	0.053320
3	ICAL, L2,S18	0.098503	0.147367	0.069403	0.062700	0.095842	0.108648	0.251558
4	ICAL, L3,S18	0.402286	0.629116	0.303748	0.265105	0.397785	0.496547	1.098657
5	ICAL, L4,S18	1.029135	1.617474	0.759872	0.635291	0.967493	1.248459	2.795566
6	ICAL, L5,S18	2.192959	3.519967	1.584757	1.345233	2.063887	2.698316	6.017213

No.	Name	Height µS F ECD_1	Height µS CL ECD_1	Height µS NO2N ECD_1	Height µS BR ECD_1	Height µS NO3N ECD_1	Height µS PO4 ECD_1	Height µS SO4 ECD_1
2	ICAL, L1,S18	0.119928	0.332400	0.084748	0.057026	0.074652	0.061912	0.150120
3	ICAL, L2,S18	0.624736	1.151678	0.427428	0.312212	0.389908	0.332100	0.786078
4	ICAL, L3,S18	2.934282	5.019222	1.815278	1.334402	1.670152	1.537158	3.389914
5	ICAL, L4,S18	7.925782	12.944296	4.498282	3.261344	4.151488	4.029644	8.663126
6	ICAL, L5,S18	18.187422	28.959684	9.537670	7.026382	9.031478	9.108810	19.245860

No.	Name	Amount mg/L-mg/Kg F ECD_1	Amount mg/L-mg/Kg CL ECD_1	Amount mg/L-mg/Kg NO2N ECD_1	Amount mg/L-mg/Kg BR ECD_1	Amount mg/L-mg/Kg NO3N ECD_1	Amount mg/L-mg/Kg PO4 ECD_1	Amount mg/L-mg/Kg SO4 ECD_1
2	ICAL, L1,S18	0.088509	0.268287	0.045841	0.152565	0.047883	0.169101	0.510110
3	ICAL, L2,S18	0.505245	0.980298	0.235735	1.012006	0.256628	0.925752	2.392929
4	ICAL, L3,S18	2.023146	4.072203	1.018944	4.218898	1.046971	4.127700	10.208976
5	ICAL, L4,S18	4.985728	9.958921	2.491093	9.866203	2.470614	9.938275	24.894346
6	ICAL, L5,S18	10.002414	20.006659	5.001430	20.023174	5.005056	20.009590	50.016725

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\073.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/14/2006 3:49:55 PM by ic_analyst

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Inhibit Integration	On	ECD_1
2	2.250	Sensitivity	0.001 "[Signal]"	ECD_1
3	2.250	Minimum Area	0.001 "[Signal]*min"	ECD_1
4	2.250	Peak Slice	0.50 s	ECD_1
5	2.500	Inhibit Integration	Off	ECD_1

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\073.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/14/2006 3:49:55 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Amount ICAL, L1,S1888,500
1	F	2.860 min	5.000 RG	External	Area	Quad	Auto		0.100000
2	CL	4.200 min	5.000 RG	External	Area	Quad	Auto		0.200000
3	NO2N	5.000 min	5.000 RG	External	Area	Quad	Auto		0.050000
4	BR	6.377 min	5.000 RG	External	Area	Quad	Auto		0.200000
5	NO3N	7.207 min	10.000 RG	External	Area	Quad	Auto		0.050000
6	*PO4*	*9.213 min*	*10.000 RG*	*External*	*Area*	*Quad*	*Auto*		*0.200000*
7	SO4	10.970 min	10.000 RG	External	Area	Quad	Auto		0.500000

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\073.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/14/2006 3:49:55 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Amount ICAL, L2,S1888,100	Amount ICAL, L3,S1888,25	Amount ICAL, L4,S1888,10	Amount ICAL, L5,S1888,5	Comment
1	F	2.860 min	0.500000	2.000000	5.000000	10.000000	
2	CL	4.200 min	1.000000	4.000000	10.000000	20.000000	
3	NO2N	5.000 min	0.250000	1.000000	2.500000	5.000000	
4	BR	6.377 min	1.000000	4.000000	10.000000	20.000000	
5	NO3N	7.207 min	0.250000	1.000000	2.500000	5.000000	
6	*PO4*	*9.213 min*	*1.000000*	*4.000000*	*10.000000*	*20.000000*	
7	SO4	10.970 min	2.500000	10.000000	25.000000	50.000000	

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\073.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/14/2006 3:49:55 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Resp.Fact.	Amount ICAL, L1,S1888,500	Amount ICAL, L2,S1888,100	Amount ICAL, L3,S1888,25	Amount ICAL, L4,S1888,10
1	F	2.860 min	1.000000	0.100000	0.500000	2.000000	5.000000
2	CL	4.200 min	1.000000	0.200000	1.000000	4.000000	10.000000
3	NO2N	5.000 min	1.000000	0.050000	0.250000	1.000000	2.500000
4	BR	6.377 min	1.000000	0.200000	1.000000	4.000000	10.000000
5	NO3N	7.207 min	1.000000	0.050000	0.250000	1.000000	2.500000
6	*PO4*	*9.213 min*	*1.000000*	*0.200000*	*1.000000*	*4.000000*	*10.000000*
7	SO4	10.970 min	1.000000	0.500000	2.500000	10.000000	25.000000

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\073.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/14/2006 3:49:55 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Amount ICAL, L5,S1888,5	Comment
1	F	2.860 min	10.000000	
2	CL	4.200 min	20.000000	
3	NO2N	5.000 min	5.000000	
4	BR	6.377 min	20.000000	
5	NO3N	7.207 min	5.000000	
6	*PO4*	*9.213 min*	*20.000000*	
7	SO4	10.970 min	50.000000	

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\073.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/14/2006 3:49:55 PM by ic_analyst

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time
1	☒	ICAL, L1,S1888,500	2	179	25.0	1.0000	1.0000	1.0000	3/1/2006 3:02:19 PM
2	☒	ICAL, L2,S1888,100	3	179	25.0	1.0000	1.0000	1.0000	3/1/2006 3:20:44 PM
3	☒	ICAL, L3,S1888,25	4	180	25.0	1.0000	1.0000	1.0000	3/1/2006 3:39:08 PM
4	☒	ICAL, L4,S1888,10	5	181	25.0	1.0000	1.0000	1.0000	3/1/2006 3:57:33 PM
5	☒	ICAL, L5,S1888,5	6	182	25.0	1.0000	1.0000	1.0000	3/1/2006 4:15:58 PM

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\073.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/14/2006 3:49:55 PM by ic_analyst

Calibration:

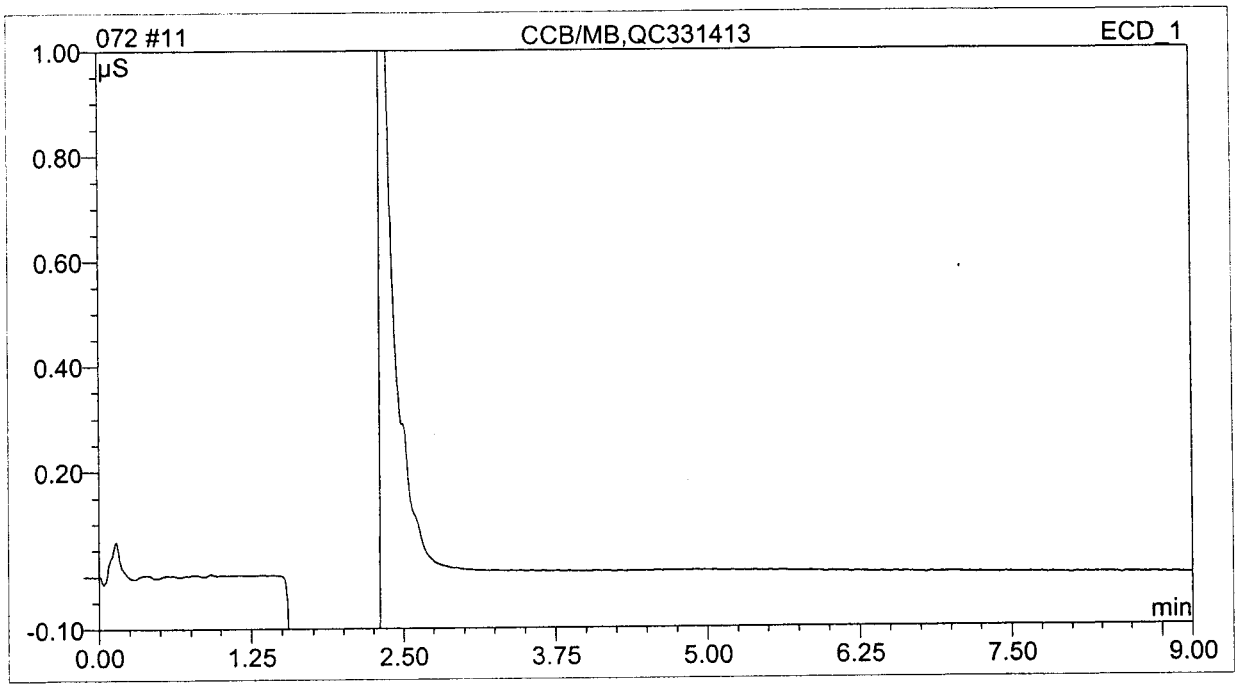
Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Calib. Comment
1	☒	ICAL, L1,S1888,500	Ok
2	☒	ICAL, L2,S1888,100	Ok
3	☒	ICAL, L3,S1888,25	Ok
4	☒	ICAL, L4,S1888,10	Ok
5	☒	ICAL, L5,S1888,5	Ok

PERCHLORATE ANALYSIS REPORT DX320 - IC02

Sample Name:	CCB/MB,QC331413	**Sample No.:**	11
Sequence Name:	072	**Batch #:**	111285
Program Method:	IC02-CLO4	**Injection vol.:**	750.0
Quantitation Method:	IC02-CLO4_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC02-CLO4_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/13/2006 12:13 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount ug/L-ug/Kg	Amount ug/L-ug/Kg	Comment
n.a.	Perchlorate	n.a.	n.a.	n.a.	n.a.	ft s a10539346



ANALYZED BY: _____

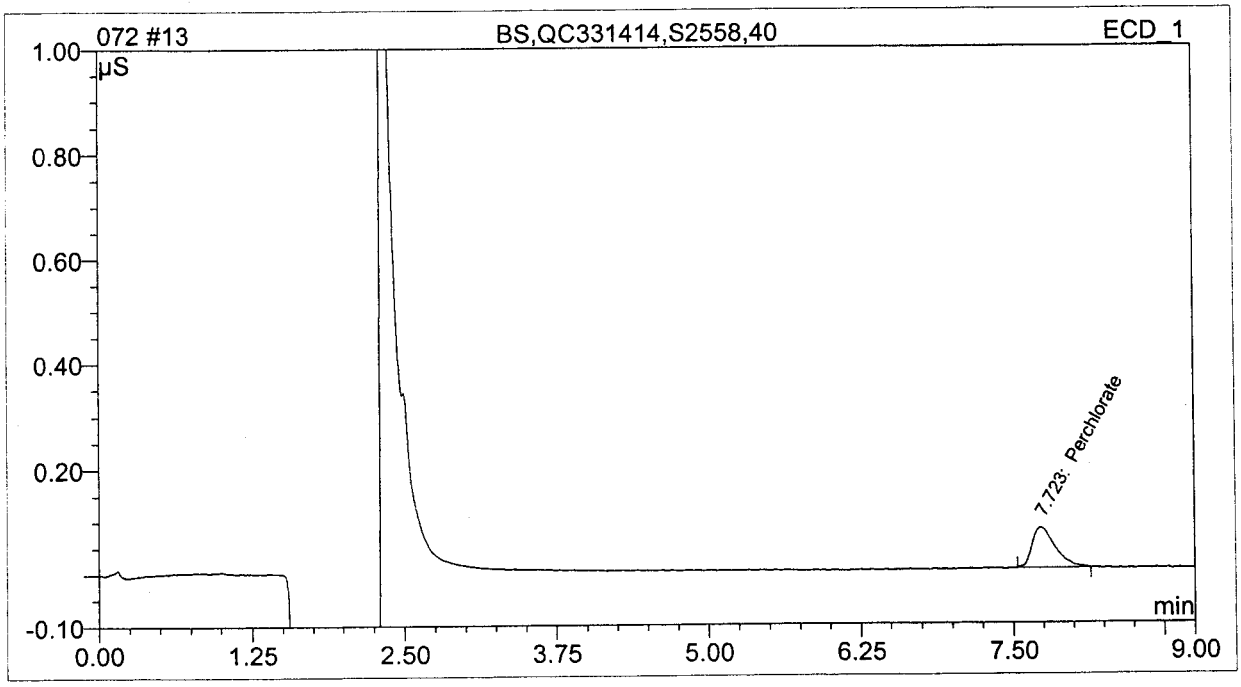
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

PERCHLORATE ANALYSIS REPORT DX320 - IC02

Sample Name:	BS,QC331414,S2558,40	**Sample No.:**	13
Sequence Name:	072	**Batch #:**	111285
Program Method:	IC02-CLO4	**Injection vol.:**	750.0
Quantitation Method:	IC02-CLO4_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC02-CLO4_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/13/2006 12:40 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount ug/L-ug/Kg	Amount ug/L-ug/Kg	Comment
1	Perchlorate	7.723	0.017205	27.2991	27.2991	ft s a01539346



ANALYZED BY: _____

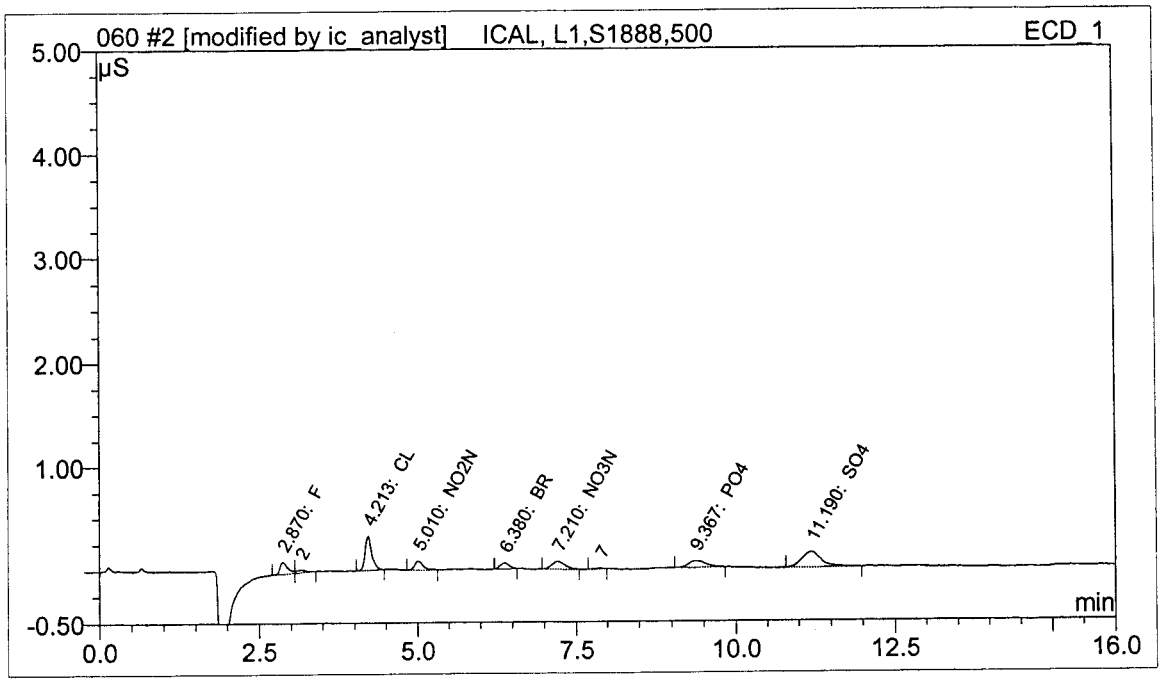
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L1,S1888,500	**Sample No.:**	2
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:02 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.017161	0.0885	0.0885	
3	CL	4.213	0.040074	0.2683	0.2683	
4	NO2N	5.010	0.013455	0.0458	0.0458	
5	BR	6.380	0.009416	0.1526	0.1526	
6	NO3N	7.210	0.017801	0.0479	0.0479	
8	PO4	9.367	0.019729	0.1691	0.1691	
9	SO4	11.190	0.053320	0.5101	0.5101	



ANALYZED BY: _____

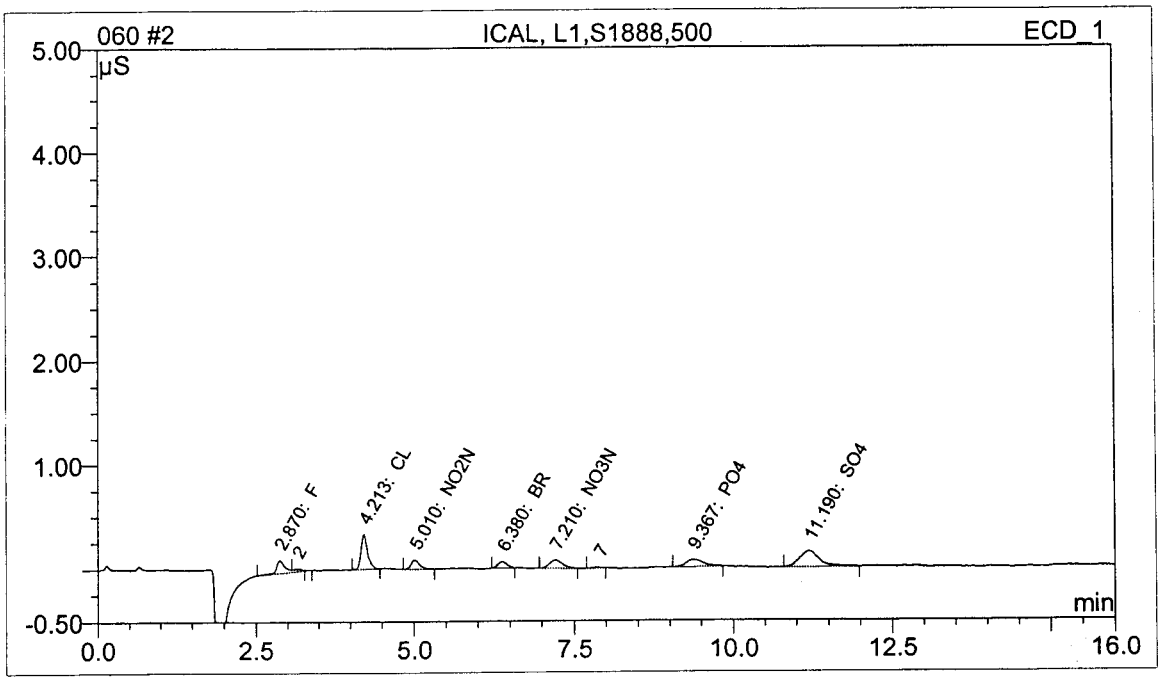
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L1,S1888,500	**Sample No.:**	2
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:02 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.023606	0.1216	0.1216	
3	CL	4.213	0.040074	0.2683	0.2683	
4	NO2N	5.010	0.013455	0.0458	0.0458	
5	BR	6.380	0.009416	0.1526	0.1526	
6	NO3N	7.210	0.017801	0.0479	0.0479	
8	PO4	9.367	0.019729	0.1691	0.1691	
9	SO4	11.190	0.053320	0.5101	0.5101	



ANALYZED BY: _____

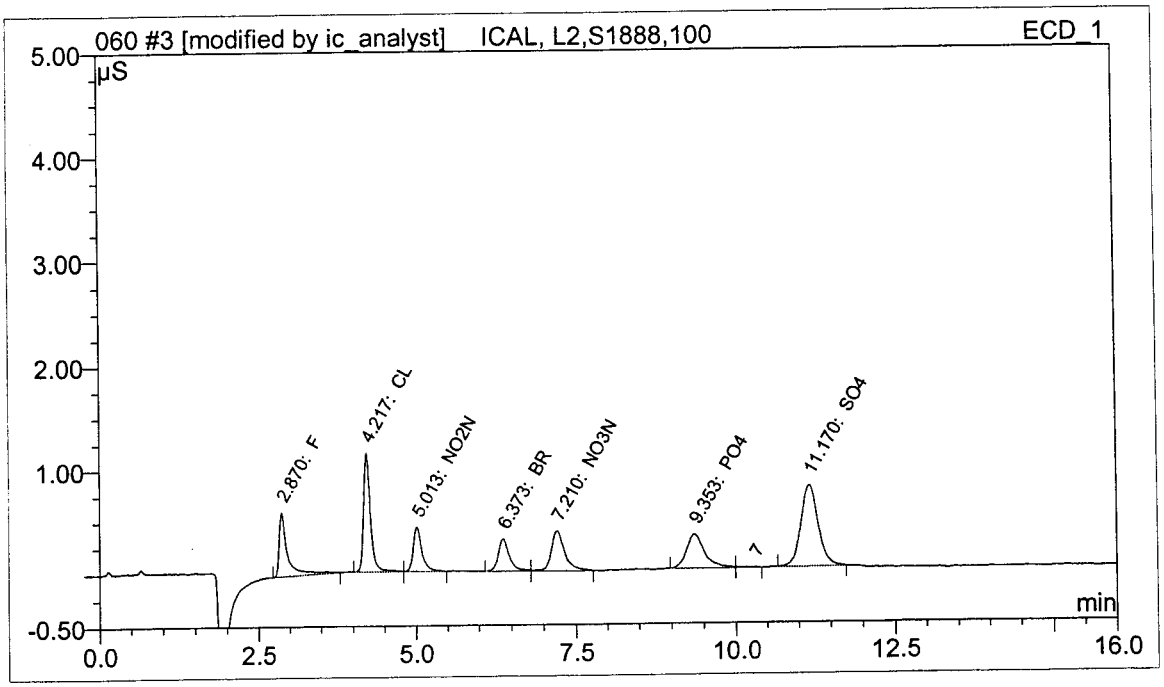
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L2,S1888,100	**Sample No.:**	3
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:20 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.098503	0.5052	0.5052	
2	CL	4.217	0.147367	0.9803	0.9803	
3	NO2N	5.013	0.069403	0.2357	0.2357	
4	BR	6.373	0.062700	1.0120	1.0120	
5	NO3N	7.210	0.095842	0.2566	0.2566	
6	PO4	9.353	0.108648	0.9258	0.9258	
8	SO4	11.170	0.251558	2.3929	2.3929	



ANALYZED BY: _____

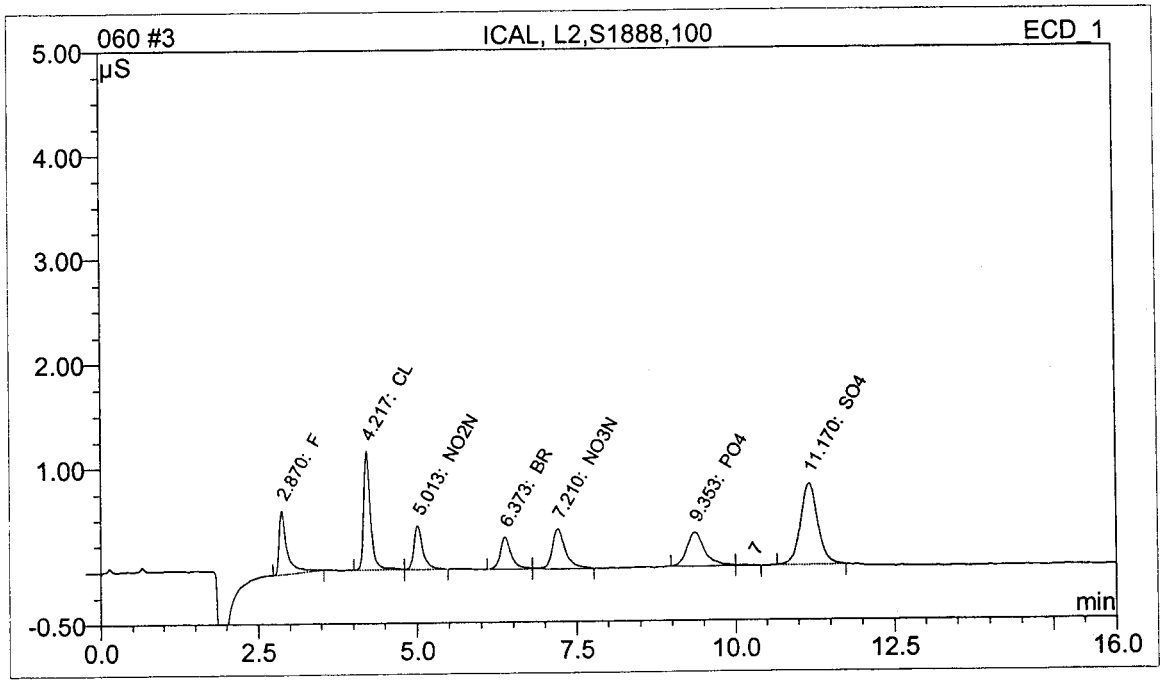
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L2,S1888,100	**Sample No.:**	3
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:20 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.089672	0.4613	0.4613	
2	CL	4.217	0.147367	0.9803	0.9803	
3	NO2N	5.013	0.069403	0.2357	0.2357	
4	BR	6.373	0.062700	1.0120	1.0120	
5	NO3N	7.210	0.095842	0.2566	0.2566	
6	PO4	9.353	0.108648	0.9258	0.9258	
8	SO4	11.170	0.251558	2.3929	2.3929	



ANALYZED BY: _____

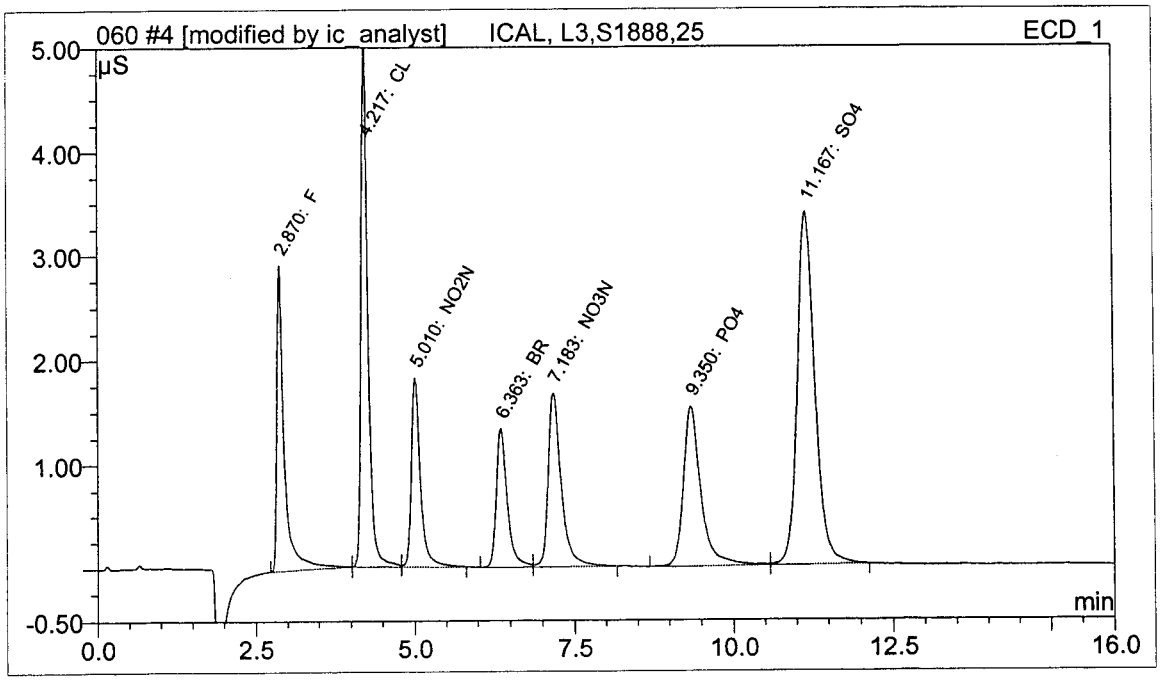
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L3,S1888,25	**Sample No.:**	4
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:39 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.402286	2.0231	2.0231	
2	CL	4.217	0.629116	4.0722	4.0722	
3	NO2N	5.010	0.303748	1.0189	1.0189	
4	BR	6.363	0.265105	4.2189	4.2189	
5	NO3N	7.183	0.397785	1.0470	1.0470	
6	PO4	9.350	0.496547	4.1277	4.1277	
7	SO4	11.167	1.098657	10.2090	10.2090	



ANALYZED BY: _____

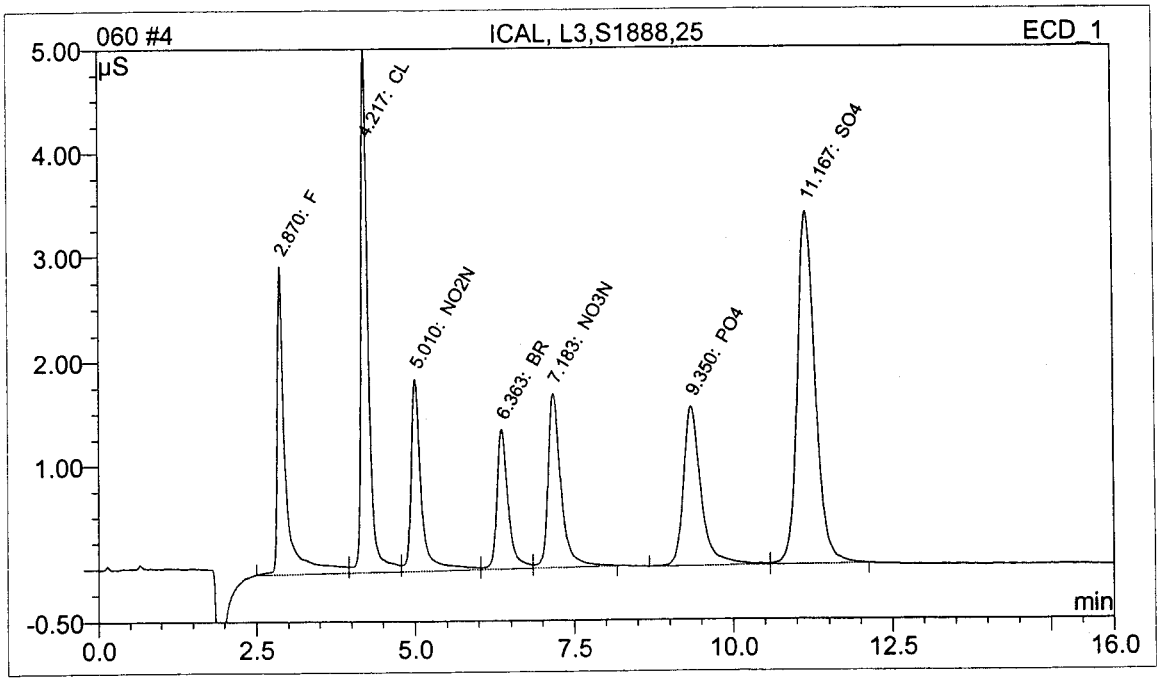
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L3,S1888,25	**Sample No.:**	4
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:39 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.455269	2.2018	2.2018	
2	CL	4.217	0.670131	4.2507	4.2507	
3	NO2N	5.010	0.344377	1.1110	1.1110	
4	BR	6.363	0.276408	4.3412	4.3412	
5	NO3N	7.183	0.404782	1.0595	1.0595	
6	PO4	9.350	0.496547	4.1277	4.1277	
7	SO4	11.167	1.098657	10.2090	10.2090	



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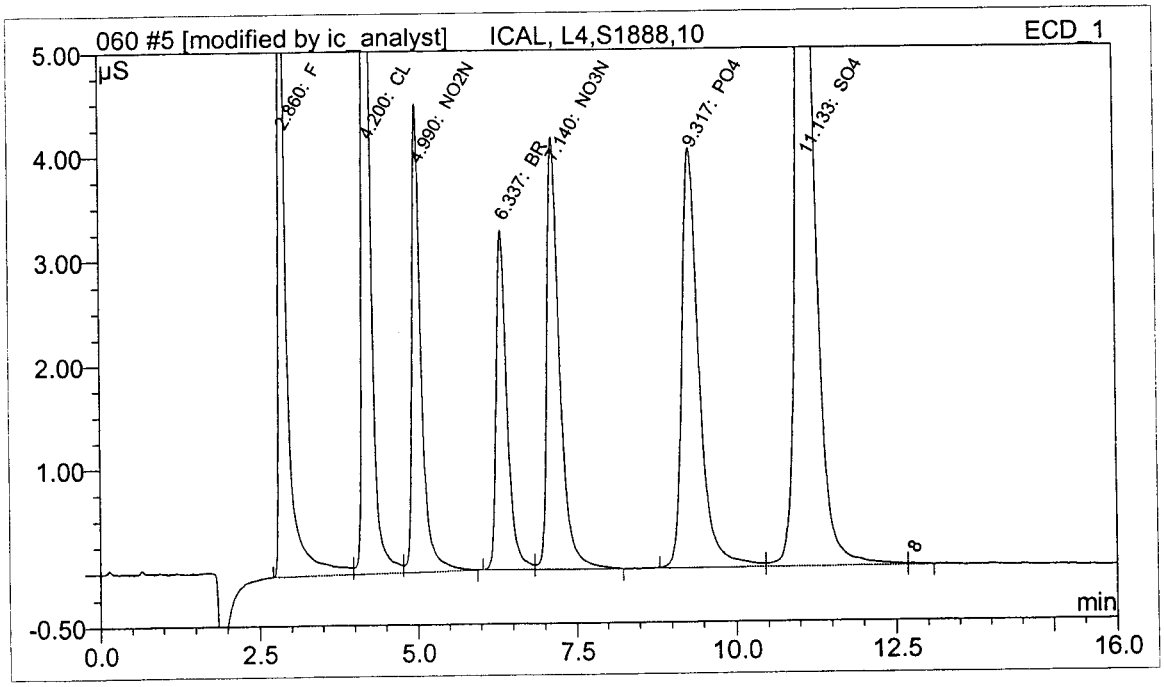
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L4,S1888,10	**Sample No.:**	5
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:57 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.860	1.029135	4.9857	4.9857	
2	CL	4.200	1.617474	9.9589	9.9589	
3	NO2N	4.990	0.759872	2.4911	2.4911	
4	BR	6.337	0.635291	9.8662	9.8662	
5	NO3N	7.140	0.967493	2.4706	2.4706	
6	PO4	9.317	1.248459	9.9383	9.9383	
7	SO4	11.133	2.795566	24.8943	24.8943	



ANALYZED BY: _____

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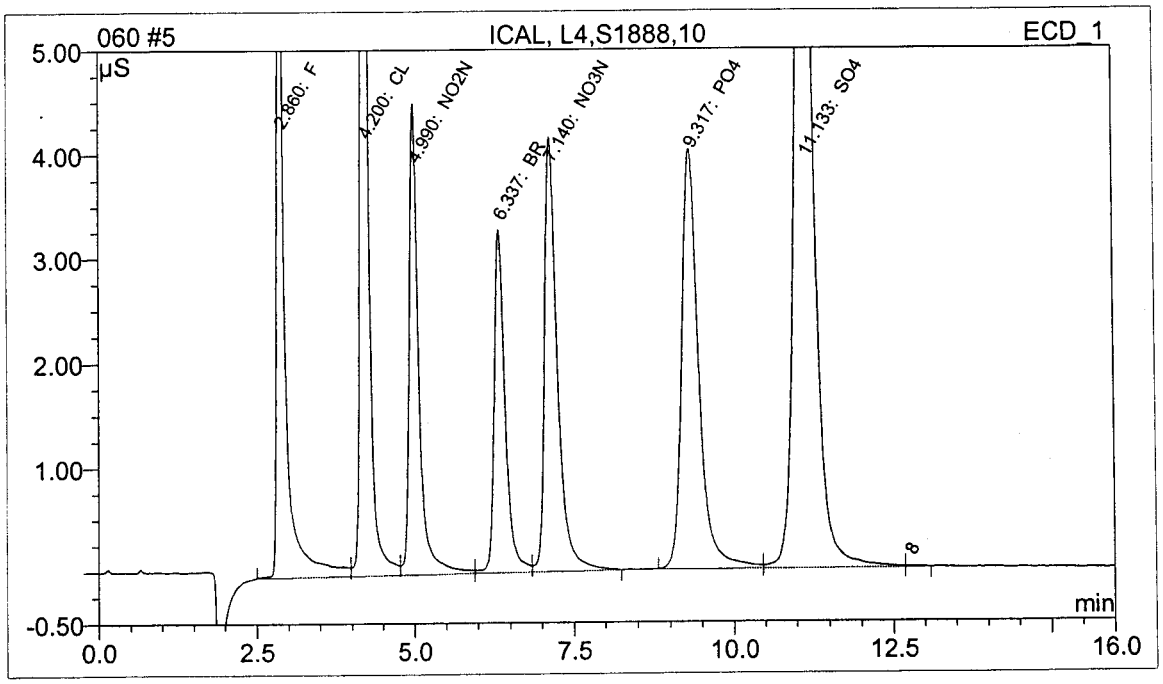
Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L4,S1888,10	**Sample No.:**	5
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:57 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.860	1.056871	5.0244	5.0244	
2	CL	4.200	1.636258	9.9916	9.9916	
3	NO2N	4.990	0.792664	2.5227	2.5227	
4	BR	6.337	0.658007	9.9696	9.9696	
5	NO3N	7.140	0.980796	2.4805	2.4805	
6	PO4	9.317	1.248459	9.9383	9.9383	
7	SO4	11.133	2.795566	24.8943	24.8943	



ANALYZED BY: _____

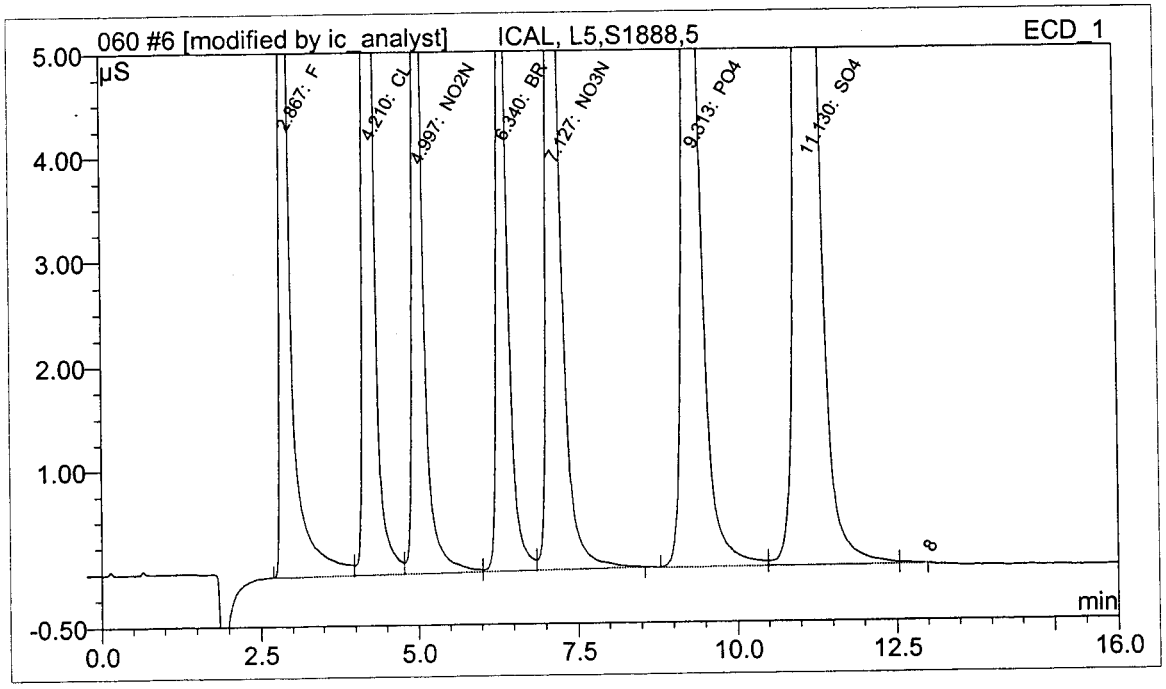
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L5,S1888,5	**Sample No.:**	6
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:15 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.867	2.192959	10.0024	10.0024	
2	CL	4.210	3.519967	20.0067	20.0067	
3	NO2N	4.997	1.584757	5.0014	5.0014	
4	BR	6.340	1.345233	20.0232	20.0232	
5	NO3N	7.127	2.063887	5.0051	5.0051	
6	PO4	9.313	2.698316	20.0096	20.0096	
7	SO4	11.130	6.017213	50.0167	50.0167	



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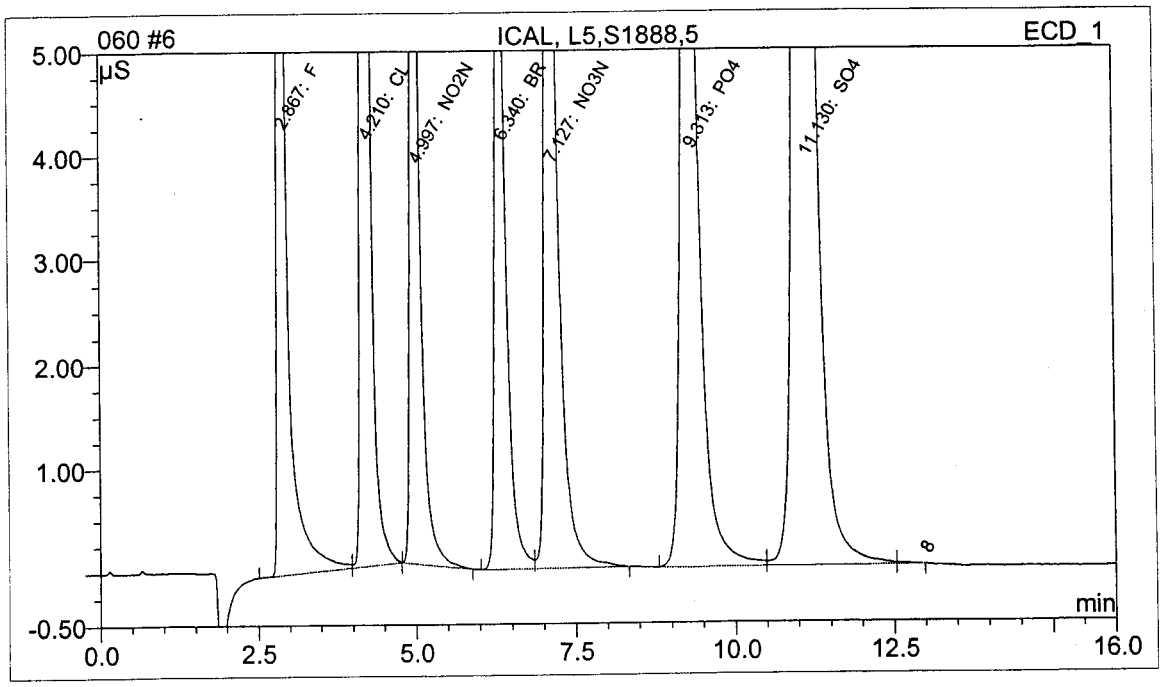
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L5,S1888,5	**Sample No.:**	6
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:15 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.867	2.155657	10.0007	10.0007	
2	CL	4.210	3.453075	20.0031	20.0031	
3	NO2N	4.997	1.510616	4.9988	4.9988	
4	BR	6.340	1.331781	20.0216	20.0216	
5	NO3N	7.127	2.045893	5.0047	5.0047	
6	PO4	9.313	2.698316	20.0096	20.0096	
7	SO4	11.130	6.017213	50.0167	50.0167	



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Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185586 IC Water
EPA 300.0

Inst : IC03
Calnum : 626087283001 Cal Date: 01-MAR-2006

ICV 626087283007 (060_7.000 01-MAR-2006) stds: S1085 (5X)

Analyte	Spiked	Quant	Units	%D	Max	Flags
Fluoride	1.000	0.9473	mg/L	-5	10	
Chloride	2.000	1.920	mg/L	-4	10	
Nitrogen, Nitrite	0.5000	0.4860	mg/L	-3	10	
Nitrogen, Nitrate	0.5000	0.4606	mg/L	-8	10	
Sulfate	5.000	5.047	mg/L	1	10	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 300.0

Inst : IC03
Seqnum : 626087283007
Cal : 626087283001
Standards: S1085 (5X)

File : 060_7.000
Caldate: 01-MAR-2006

IDF : 1.0
Time : 01-MAR-2006 16:34

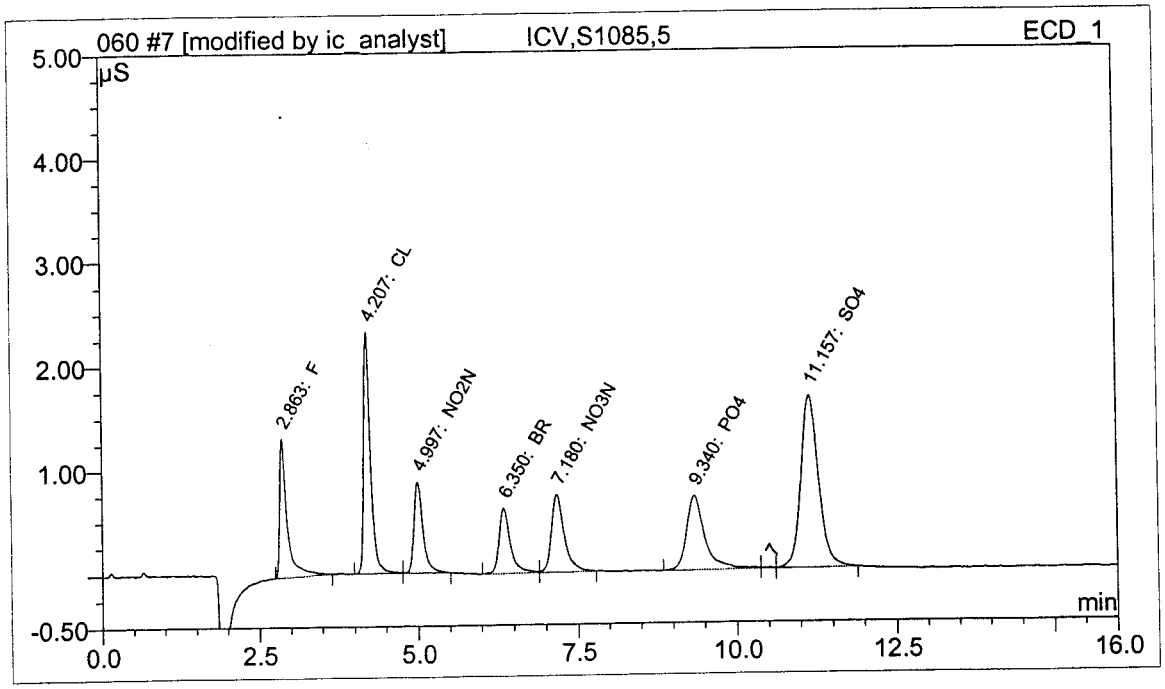
Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Fluoride	0.1990	0.1858	1.000	0.9473	mg/L	-5	10	
Chloride	0.1686	0.1455	2.000	1.920	mg/L	-4	10	
Nitrogen, Nitrite	0.2943	0.2873	0.5000	0.4860	mg/L	-3	10	
Bromide	0.0614	0.0638	2.000	2.050	mg/L	2	10	
Nitrogen, Nitrate	0.3874	0.3456	0.5000	0.4606	mg/L	-8	10	
Orthophosphate (as P)	0.1182	0.1201	2.000	2.029	mg/L	1	10	
Sulfate	0.1099	0.1070	5.000	5.047	mg/L	1	10	

MRS 3/2/06

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:34 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.863	0.185760	0.9473	0.9473	
2	CL	4.207	0.291093	1.9202	1.9202	
3	NO2N	4.997	0.143651	0.4860	0.4860	
4	BR	6.350	0.127568	2.0496	2.0496	
5	NO3N	7.180	0.172776	0.4606	0.4606	
6	PO4	9.340	0.240207	2.0292	2.0292	
8	SO4	11.157	0.534812	5.0468	5.0468	



ANALYZED BY: _____

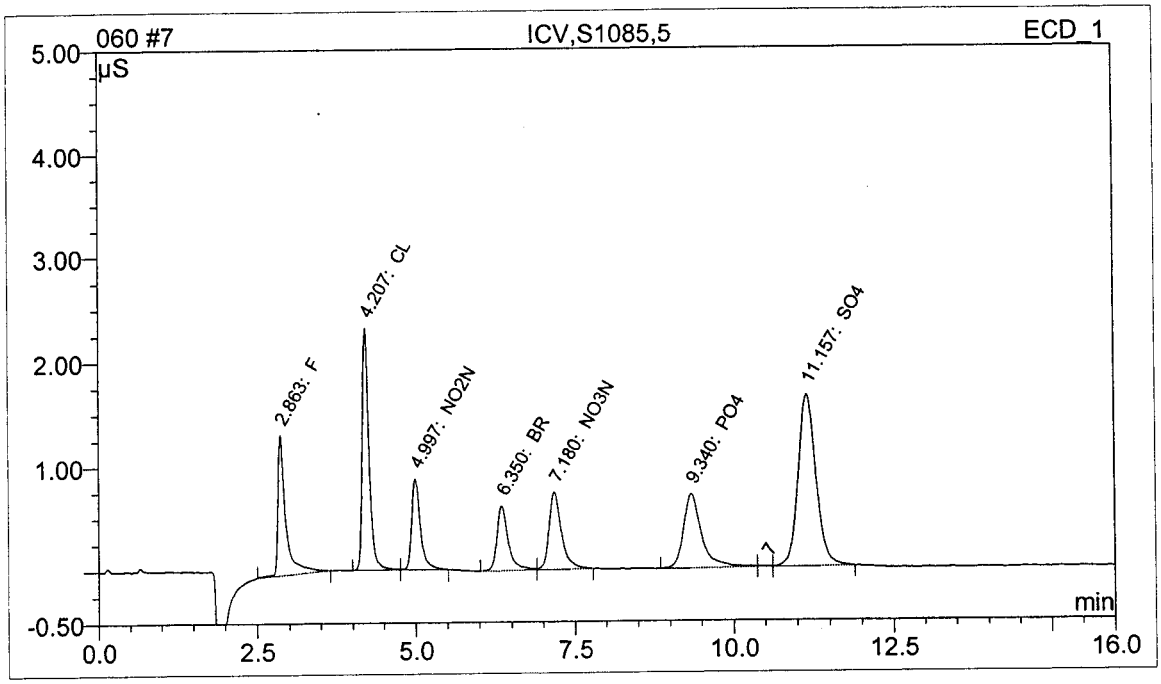
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:34 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.863	0.193974	0.9887	0.9887	
2	CL	4.207	0.291093	1.9202	1.9202	
3	NO2N	4.997	0.143651	0.4860	0.4860	
4	BR	6.350	0.127568	2.0496	2.0496	
5	NO3N	7.180	0.172776	0.4606	0.4606	
6	PO4	9.340	0.240207	2.0292	2.0292	
8	SO4	11.157	0.534812	5.0468	5.0468	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CONTINUING CALIBRATION SUMMARY FOR 185586 IC Water
Curtis & Tompkins Laboratories

Analyte: Fluoride

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606108987007	16-MAR-2006 15:34	606046871001	01-FEB-2006	0.2814	0.2543	0.5000	0.4542	mg/L	-9	10	
IC01	P	606108987018	16-MAR-2006 20:03	606046871001	01-FEB-2006	0.2814	0.2698	2.0000	1.8962	mg/L	-5	10	
IC01	P	606108987032	17-MAR-2006 00:08	606046871001	01-FEB-2006	0.2814	0.2909	5.0000	4.9416	mg/L	-1	10	
IC01	P	606108987046	17-MAR-2006 04:13	606046871001	01-FEB-2006	0.2814	0.2593	0.5000	0.4630	mg/L	-7	10	
IC03	P	626108991008	16-MAR-2006 15:54	626087283001	01-MAR-2006	0.1990	0.1955	0.5000	0.5015	mg/L	0	10	
IC03	P	626108991020	16-MAR-2006 19:41	626087283001	01-MAR-2006	0.1990	0.1974	2.0000	1.9863	mg/L	-1	10	
IC03	P	626108991038	17-MAR-2006 01:13	626087283001	01-MAR-2006	0.1990	0.2178	5.0000	5.2590	mg/L	5	10	
IC03	P	626108991050	17-MAR-2006 04:54	626087283001	01-MAR-2006	0.1990	0.1899	0.5000	0.4871	mg/L	-3	10	

CONTINUING CALIBRATION SUMMARY FOR 185586 IC Water
Curtis & Tompkins Laboratories

Analyte: Chloride

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606108987007	16-MAR-2006 15:34	606046871001	01-FEB-2006	0.1842	0.1672	1.0000	0.9550	mg/L	-5	10	
IC01	P	606108987018	16-MAR-2006 20:03	606046871001	01-FEB-2006	0.1842	0.1804	4.0000	4.0096	mg/L	0	10	
IC01	P	606108987032	17-MAR-2006 00:08	606046871001	01-FEB-2006	0.1842	0.1951	10.000	10.269	mg/L	3	10	
IC01	P	606108987046	17-MAR-2006 04:13	606046871001	01-FEB-2006	0.1842	0.1742	1.0000	0.9943	mg/L	-1	10	
IC01	P	606108987060	17-MAR-2006 08:18	606046871001	01-FEB-2006	0.1842	0.1805	4.0000	4.0110	mg/L	0	10	
IC01	P	606108987068	17-MAR-2006 10:38	606046871001	01-FEB-2006	0.1842	0.1946	10.000	10.248	mg/L	2	10	
IC03	P	626108991008	16-MAR-2006 15:54	626087283001	01-MAR-2006	0.1686	0.1423	1.0000	0.9467	mg/L	-5	10	
IC03	P	626108991020	16-MAR-2006 19:41	626087283001	01-MAR-2006	0.1686	0.1510	4.0000	3.9159	mg/L	-2	10	
IC03	P	626108991038	17-MAR-2006 01:13	626087283001	01-MAR-2006	0.1686	0.1643	10.000	10.103	mg/L	1	10	
IC03	P	626108991050	17-MAR-2006 04:54	626087283001	01-MAR-2006	0.1686	0.1403	1.0000	0.9339	mg/L	-7	10	

CONTINUING CALIBRATION SUMMARY FOR 185586 IC Water
Curtis & Tompkins Laboratories

Analyte: Nitrogen, Nitrite

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606108987007	16-MAR-2006 15:34	606046871001	01-FEB-2006	0.3733	0.3368	0.2500	0.2348	mg/L	-6	10	
IC01	P	606108987018	16-MAR-2006 20:03	606046871001	01-FEB-2006	0.3733	0.3580	1.0000	0.9877	mg/L	-1	10	
IC01	P	606108987032	17-MAR-2006 00:08	606046871001	01-FEB-2006	0.3733	0.3760	2.5000	2.5386	mg/L	2	10	
IC01	P	606108987046	17-MAR-2006 04:13	606046871001	01-FEB-2006	0.3733	0.3344	0.2500	0.2331	mg/L	-7	10	
IC03	P	626108991008	16-MAR-2006 15:54	626087283001	01-MAR-2006	0.2943	0.2785	0.2500	0.2365	mg/L	-5	10	
IC03	P	626108991020	16-MAR-2006 19:41	626087283001	01-MAR-2006	0.2943	0.2907	1.0000	0.9759	mg/L	-2	10	
IC03	P	626108991038	17-MAR-2006 01:13	626087283001	01-MAR-2006	0.2943	0.3122	2.5000	2.5559	mg/L	2	10	
IC03	P	626108991050	17-MAR-2006 04:54	626087283001	01-MAR-2006	0.2943	0.2792	0.2500	0.2371	mg/L	-5	10	

CONTINUING CALIBRATION SUMMARY FOR 185586 IC Water
Curtis & Tompkins Laboratories

Analyte: Nitrogen, Nitrate

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606108987007	16-MAR-2006 15:34	606046871001	01-FEB-2006	0.4558	0.4157	0.2500	0.2351	mg/L	-6	10	
IC01	P	606108987018	16-MAR-2006 20:03	606046871001	01-FEB-2006	0.4558	0.4546	1.0000	1.0132	mg/L	1	10	
IC01	P	606108987032	17-MAR-2006 00:08	606046871001	01-FEB-2006	0.4558	0.4825	2.5000	2.6103	mg/L	4	10	
IC01	P	606108987046	17-MAR-2006 04:13	606046871001	01-FEB-2006	0.4558	0.4273	0.2500	0.2416	mg/L	-3	10	
IC01	P	606108987060	17-MAR-2006 08:18	606046871001	01-FEB-2006	0.4558	0.4594	1.0000	1.0238	mg/L	2	10	
IC01	P	606108987068	17-MAR-2006 10:38	606046871001	01-FEB-2006	0.4558	0.4821	2.5000	2.6082	mg/L	4	10	
IC03	P	626108991008	16-MAR-2006 15:54	626087283001	01-MAR-2006	0.3874	0.3379	0.2500	0.2264	mg/L	-9	10	
IC03	P	626108991020	16-MAR-2006 19:41	626087283001	01-MAR-2006	0.3874	0.3803	1.0000	1.0018	mg/L	0	10	
IC03	P	626108991038	17-MAR-2006 01:13	626087283001	01-MAR-2006	0.3874	0.4032	2.5000	2.5685	mg/L	3	10	
IC03	P	626108991050	17-MAR-2006 04:54	626087283001	01-MAR-2006	0.3874	0.3510	0.2500	0.2351	mg/L	-6	10	

CONTINUING CALIBRATION SUMMARY FOR 185586 IC Water
Curtis & Tompkins Laboratories

Analyte: Sulfate

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606108987007	16-MAR-2006 15:34	606046871001	01-FEB-2006	0.1305	0.1229	2.5000	2.4221	mg/L	-3	10	
IC01	P	606108987018	16-MAR-2006 20:03	606046871001	01-FEB-2006	0.1305	0.1298	10.000	10.053	mg/L	1	10	
IC01	P	606108987032	17-MAR-2006 00:08	606046871001	01-FEB-2006	0.1305	0.1384	25.000	25.848	mg/L	3	10	
IC01	P	606108987046	17-MAR-2006 04:13	606046871001	01-FEB-2006	0.1305	0.1232	2.5000	2.4284	mg/L	-3	10	
IC01	P	606108987060	17-MAR-2006 08:18	606046871001	01-FEB-2006	0.1305	0.1315	10.000	10.182	mg/L	2	10	
IC01	P	606108987068	17-MAR-2006 10:38	606046871001	01-FEB-2006	0.1305	0.1381	25.000	25.790	mg/L	3	10	
IC03	P	626108991008	16-MAR-2006 15:54	626087283001	01-MAR-2006	0.1099	0.1028	2.5000	2.4442	mg/L	-2	10	
IC03	P	626108991020	16-MAR-2006 19:41	626087283001	01-MAR-2006	0.1099	0.1073	10.000	9.9778	mg/L	0	10	
IC03	P	626108991038	17-MAR-2006 01:13	626087283001	01-MAR-2006	0.1099	0.1153	25.000	25.612	mg/L	2	10	
IC03	P	626108991050	17-MAR-2006 04:54	626087283001	01-MAR-2006	0.1099	0.1032	2.5000	2.4526	mg/L	-2	10	

CURTIS & TOMPKINS BLANK USER REPORT FOR 185586 IC Water
EPA 300.0

Inst	: IC01	Lab ID	: QC331973		
Seqnum	: 606108987008.1	Matrix	: Water		
File	: 075_8.000	Batch	: 111418	Time	: 16-MAR-2006 15:52
IDF	: 1.0	PDF	: 1.0	Units	: mg/L
Cal	: 606046871001	Caldate	: 01-FEB-2006		

Analyte	Result	RL	Flags
Fluoride	ND	0.10	
Chloride	ND	0.20	
Nitrogen, Nitrite	ND	0.05	
Nitrogen, Nitrate	ND	0.05	
Sulfate	ND	0.50	

CURTIS & TOMPKINS BLANK USER REPORT FOR 185586 IC Water
EPA 300.0

Inst	: IC03	Lab ID	: QC331968		
Seqnum	: 626108991009.1	Matrix	: Water		
File	: 075_9.000	Batch	: 111417	Time	: 16-MAR-2006 16:13
IDF	: 1.0	PDF	: 1.0	Units	: mg/L
Cal	: 626087283001	Caldate	: 01-MAR-2006		

Analyte	Result	RL	Flags
Fluoride	ND	0.10	
Chloride	ND	0.20	
Nitrogen, Nitrite	ND	0.05	
Nitrogen, Nitrate	ND	0.05	
Sulfate	ND	0.50	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185586 IC Water
EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606108987019 File : 075_19.000 Time : 16-MAR-2006 20:21
Cal : 606046871001 Caldate: 01-FEB-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.006664	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185586 IC Water
EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606108987033 File : 075_33.000 Time : 17-MAR-2006 00:26
Cal : 606046871001 Caldate: 01-FEB-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.006664	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185586 IC Water
EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606108987047 File : 075_47.000 Time : 17-MAR-2006 04:31
Cal : 606046871001 Caldate: 01-FEB-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.006664	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185586 IC Water
EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606108987061 File : 075_61.000 Time : 17-MAR-2006 08:36
Cal : 606046871001 Caldate: 01-FEB-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.006664	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185586 IC Water
EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606108987069 File : 075_69.000 Time : 17-MAR-2006 10:56
Cal : 606046871001 Caldate: 01-FEB-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.006664	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185586 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626108991021 File : 075_21.000 Time : 16-MAR-2006 20:00
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185586 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626108991039 File : 075_39.000 Time : 17-MAR-2006 01:31
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185586 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626108991051 File : 075_51.000 Time : 17-MAR-2006 05:12
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

SEQUENCE SUMMARY FOR 185586 IC Water
Curtis & Tompkins Laboratories

Sequence: 606046871 Instrument: IC01 Ion Chromatograph Begun: 01-FEB-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	032_1.00	IB				01-FEB-2006 13:11	1.0			25				
002	032_2.00	ICAL	L1			01-FEB-2006 13:28	1.0						1	
003	032_3.00	ICAL	L2			01-FEB-2006 13:46	1.0						1	
004	032_4.00	ICAL	L3			01-FEB-2006 14:03	1.0						1	
005	032_5.00	ICAL	L4			01-FEB-2006 14:21	1.0						1	
006	032_6.00	ICAL	L5			01-FEB-2006 14:38	1.0						1	
007	032_7.00	ICV				01-FEB-2006 14:56	1.0	1		25			2	
008	032_8.00	ICB/MB	QC326493	110078	Water	01-FEB-2006 15:13	1.0	1		25				
009	032_9.00	BS	QC326494	110078	Water	01-FEB-2006 15:31	1.0	1		25			1	
010	032_10.0	BSD	QC326495	110078	Water	01-FEB-2006 15:48	1.0	1		25			1	
011	032_11.0	SAMPLE	184665-001	110078	Water	01-FEB-2006 16:19	1.0	1		25				1:CL=32.4397
012	032_12.0	SAMPLE	184665-005	110078	Water	01-FEB-2006 16:37	1.0	1		25				1:CL=32.5432
013	032_13.0	MSS	184665-006	110078	Water	01-FEB-2006 16:54	1.0	2		25				1:CL=34.9403
014	032_14.0	SAMPLE	184665-007	110078	Water	01-FEB-2006 17:12	1.0			25				
015	032_15.0	SAMPLE	184646-001	110078	Water	01-FEB-2006 17:29	100.0			25				
016	032_16.0	SAMPLE	184646-002	110078	Water	01-FEB-2006 17:47	100.0			25				941
017	032_17.0	SAMPLE	184646-003	110078	Water	01-FEB-2006 18:04	100.0			25				
018	032_18.0	CCV	M	110078		01-FEB-2006 18:22	1.0			25			1	
019	032_19.0	CCB		110078		01-FEB-2006 18:39	1.0			25				
020	032_20.0	SAMPLE	184646-004	110078	Water	01-FEB-2006 18:57	100.0			25				
021	032_21.0	SAMPLE	184606-003	110078	Water	01-FEB-2006 19:14	1.0			25				1:CL=67.2883
022	032_22.0	SAMPLE	184606-006	110078	Water	01-FEB-2006 19:32	1.0	1		25				3:SO4=258.533
023	032_23.0	X	BLK	110078		01-FEB-2006 19:49	1.0							
024	032_24.0	SAMPLE	184665-008	110078	Water	01-FEB-2006 20:07	1.0			25				
025	032_25.0	SAMPLE	184665-009	110078	Water	01-FEB-2006 20:24	1.0	1		25				1:CL=23.2597
026	032_26.0	SAMPLE	184665-001	110078	Water	01-FEB-2006 20:42	2.0			25				
027	032_27.0	SAMPLE	184665-005	110078	Water	01-FEB-2006 20:59	2.0			25				
028	032_28.0	MSS	184665-006	110078	Water	01-FEB-2006 21:17	2.0	1		25				
029	032_29.0	MS	QC326496	110078	Water	01-FEB-2006 21:34	5.0	1		25			1	
030	032_30.0	MSD	QC326497	110078	Water	01-FEB-2006 21:52	5.0	1		25			1	
031	032_31.0	CCV	H	110078		01-FEB-2006 22:10	1.0	1		25			1	

Stds used: 1=S1888 2=S1085

SEQUENCE SUMMARY FOR 185586 IC Water
Curtis & Tompkins Laboratories

Sequence: 606046871 Instrument: IC01 Ion Chromatograph Begun: 01-FEB-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
032	032_32.0	CCB		110078		01-FEB-2006 22:27	1.0	1	25				
033	032_33.0	X	CCV	110078		01-FEB-2006 22:45	1.0					1	
034	032_34.0	X	CCB	110078		01-FEB-2006 23:02	1.0						
035	032_35.0	SAMPLE	184665-009	110078	Water	01-FEB-2006 23:20	2.0		25				
036	032_36.0	SAMPLE	184669-006	110078	Water	01-FEB-2006 23:37	100.0		25				
037	032_37.0	SAMPLE	184669-006	110078	Water	01-FEB-2006 23:55	10.0	1	25				1:NO3N=9.88433
038	032_38.0	X	BLK	110078		02-FEB-2006 00:12	1.0						
039	032_39.0	SAMPLE	184606-006	110078	Water	02-FEB-2006 00:30	2.0		25				2:SO4=142.830
040	032_40.0	X	BLK	110078		02-FEB-2006 00:47	1.0						
041	032_41.0	SAMPLE	184646-001	110078	Water	02-FEB-2006 01:05	1.0		25				
042	032_42.0	X	BLK	110078		02-FEB-2006 01:22	1.0						
043	032_43.0	SAMPLE	184646-002	110078	Water	02-FEB-2006 01:40	1.0		25				
044	032_44.0	X	BLK	110078		02-FEB-2006 01:57	1.0						
045	032_45.0	SAMPLE	184646-003	110078	Water	02-FEB-2006 02:15	1.0		25				
046	032_46.0	X	BLK	110078		02-FEB-2006 02:32	1.0						
047	032_47.0	SAMPLE	184646-004	110078	Water	02-FEB-2006 02:50	1.0		25				942
048	032_48.0	X	BLK	110078		02-FEB-2006 03:07	1.0						
049	032_49.0	X	BLK	110078		02-FEB-2006 03:25	1.0						
050	032_50.0	X	CCV	110078		02-FEB-2006 03:42	1.0					1	
051	032_51.0	X	CCB	110078		02-FEB-2006 04:00	1.0						
052	032_52.0	CCV	L	110078		02-FEB-2006 04:17	1.0	2	25			1	
053	032_53.0	CCB		110078		02-FEB-2006 04:35	1.0		25				
054	032_54.0	X	SHUTDOWN	110078		02-FEB-2006 04:52	1.0						

Stds used: 1=S1888 2=S1085

SEQUENCE SUMMARY FOR 185586 IC Water
Curtis & Tompkins Laboratories

Sequence: 626087283 Instrument: IC03 Ion Chromatograph Begun: 01-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	060_1.00	IB				01-MAR-2006 14:43	1.0		25				
002	060_2.00	ICAL	L1			01-MAR-2006 15:02	1.0					1	
003	060_3.00	ICAL	L2			01-MAR-2006 15:20	1.0					1	
004	060_4.00	ICAL	L3			01-MAR-2006 15:39	1.0					1	
005	060_5.00	ICAL	L4			01-MAR-2006 15:57	1.0					1	
006	060_6.00	ICAL	L5			01-MAR-2006 16:15	1.0					1	
007	060_7.00	ICV				01-MAR-2006 16:34	1.0		25			2	
008	060_8.00	ICB				01-MAR-2006 16:52	1.0		25				

943

Stds used: 1=S1888 2=S1085

SEQUENCE SUMMARY FOR 185586 IC Water
Curtis & Tompkins Laboratories

Sequence: 606108987 Instrument: IC01 Ion Chromatograph Begun: 16-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
007	075_7.00	CCV	L	111418		16-MAR-2006 15:34	1.0			25			1	
008	075_8.00	CCB/MB	QC331973	111418	Water	16-MAR-2006 15:52	1.0			25				
009	075_9.00	BS	QC331974	111418	Water	16-MAR-2006 16:09	1.0			25			1	
010	075_10.0	BSD	QC331975	111418	Water	16-MAR-2006 16:27	1.0			25			1	
011	075_11.0	SAMPLE	185586-003	111418	Water	16-MAR-2006 18:00	1.0	2		25				2:SO4=116.456
012	075_12.0	SAMPLE	185586-009	111418	Water	16-MAR-2006 18:18	1.0	1		25				1:CL=25.3113
013	075_13.0	MSS	185586-015	111418	Water	16-MAR-2006 18:35	1.0	3		25				2:SO4=96.8780
014	075_14.0	SAMPLE	185586-016	111418	Water	16-MAR-2006 18:53	1.0	2		25				2:SO4=65.9172
015	075_15.0	SAMPLE	185586-002	111418	Water	16-MAR-2006 19:10	1.0	1		25				1:CL=87.4599
016	075_16.0	SAMPLE	185586-001	111418	Water	16-MAR-2006 19:28	1.0	1		25				1:CL=25.5935
017	075_17.0	SAMPLE	185586-004	111418	Water	16-MAR-2006 19:46	1.0	2		25				2:CL=74.2370
018	075_18.0	CCV	M	111418		16-MAR-2006 20:03	1.0	1		25			1	
019	075_19.0	CCB		111418		16-MAR-2006 20:21	1.0			25				
020	075_20.0	X	CCV	111418		16-MAR-2006 20:38	1.0						1	
021	075_21.0	X	CCB	111418		16-MAR-2006 20:56	1.0							
022	075_22.0	MSS	185586-015	111418	Water	16-MAR-2006 21:13	10.0	1		25				944
023	075_23.0	MS	QC331976	111418	Water	16-MAR-2006 21:31	10.0			25			1	
024	075_24.0	MSD	QC331977	111418	Water	16-MAR-2006 21:48	10.0			25			1	
025	075_25.0	SAMPLE	185586-005	111418	Water	16-MAR-2006 22:06	1.0	2		25				2:SO4=96.4218
026	075_26.0	SAMPLE	185586-006	111418	Water	16-MAR-2006 22:23	1.0	2		25				2:SO4=90.6326
027	075_27.0	SAMPLE	185586-010	111418	Water	16-MAR-2006 22:41	1.0	1		25				1:CL=70.8724
028	075_28.0	SAMPLE	185586-011	111418	Water	16-MAR-2006 22:58	1.0	1		25				1:CL=100.117
029	075_29.0	SAMPLE	185586-017	111418	Water	16-MAR-2006 23:16	1.0	1		25				1:CL=21.6937
030	075_30.0	SAMPLE	185586-018	111418	Water	16-MAR-2006 23:33	1.0	1		25				1:CL=49.0687
031	075_31.0	SAMPLE	185586-019	111418	Water	16-MAR-2006 23:51	1.0	1		25				1:CL=44.9277
032	075_32.0	CCV	H	111418		17-MAR-2006 00:08	1.0	1		25			1	
033	075_33.0	CCB		111418		17-MAR-2006 00:26	1.0	1		25				
034	075_34.0	X	CCV	111418		17-MAR-2006 00:43	1.0						1	
035	075_35.0	X	CCB	111418		17-MAR-2006 01:01	1.0							
036	075_36.0	SAMPLE	185586-007	111418	Water	17-MAR-2006 01:18	1.0			25				
037	075_37.0	SAMPLE	185586-020	111418	Water	17-MAR-2006 01:36	1.0			25				

Stds used: 1=S1888

SEQUENCE SUMMARY FOR 185586 IC Water
Curtis & Tompkins Laboratories

Sequence: 606108987 Instrument: IC01 Ion Chromatograph Begun: 16-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
038	075_38.0	SAMPLE	185586-021	111418	Water	17-MAR-2006 01:53	1.0			25				
039	075_39.0	SAMPLE	185586-022	111418	Water	17-MAR-2006 02:11	1.0	3		25			3:SO4=72.1162	
040	075_40.0	SAMPLE	185586-023	111418	Water	17-MAR-2006 02:28	1.0			25				
041	075_41.0	SAMPLE	185586-024	111418	Water	17-MAR-2006 02:46	1.0	3		25			3:SO4=75.9418	
042	075_42.0	SAMPLE	185586-001	111418	Water	17-MAR-2006 03:03	25.0			25				
043	075_43.0	SAMPLE	185586-002	111418	Water	17-MAR-2006 03:21	25.0			25				
044	075_44.0	SAMPLE	185586-003	111418	Water	17-MAR-2006 03:38	25.0			25				
045	075_45.0	SAMPLE	185586-004	111418	Water	17-MAR-2006 03:56	10.0			25				
046	075_46.0	CCV	L	111418		17-MAR-2006 04:13	1.0	1		25			1	
047	075_47.0	CCB		111418		17-MAR-2006 04:31	1.0			25				
048	075_48.0	X	CCV	111418		17-MAR-2006 04:48	1.0						1	
049	075_49.0	X	CCB	111418		17-MAR-2006 05:06	1.0							
050	075_50.0	SAMPLE	185586-005	111418	Water	17-MAR-2006 05:23	25.0			25				
051	075_51.0	SAMPLE	185586-006	111418	Water	17-MAR-2006 05:41	25.0			25				
052	075_52.0	SAMPLE	185586-009	111418	Water	17-MAR-2006 05:58	5.0			25				
053	075_53.0	SAMPLE	185586-010	111418	Water	17-MAR-2006 06:16	5.0			25				945
054	075_54.0	SAMPLE	185586-011	111418	Water	17-MAR-2006 06:33	25.0			25				
055	075_55.0	SAMPLE	185586-016	111418	Water	17-MAR-2006 06:51	25.0			25				
056	075_56.0	SAMPLE	185586-017	111418	Water	17-MAR-2006 07:08	5.0			25				
057	075_57.0	SAMPLE	185586-018	111418	Water	17-MAR-2006 07:26	10.0			25				
058	075_58.0	SAMPLE	185586-019	111418	Water	17-MAR-2006 07:43	10.0			25				
059	075_59.0	SAMPLE	185586-020	111418	Water	17-MAR-2006 08:01	25.0			25				
060	075_60.0	CCV	M	111418		17-MAR-2006 08:18	1.0	1		25			1	
061	075_61.0	CCB		111418		17-MAR-2006 08:36	1.0			25				
062	075_62.0	X	CCV	111418		17-MAR-2006 08:53	1.0						1	
063	075_63.0	X	CCB	111418		17-MAR-2006 09:11	1.0							
064	075_64.0	SAMPLE	185586-021	111418	Water	17-MAR-2006 09:28	10.0			25				
065	075_65.0	SAMPLE	185586-022	111418	Water	17-MAR-2006 09:46	10.0			25				
066	075_66.0	SAMPLE	185586-023	111418	Water	17-MAR-2006 10:03	5.0			25				
067	075_67.0	SAMPLE	185586-024	111418	Water	17-MAR-2006 10:21	10.0			25				
068	075_68.0	CCV	H	111418		17-MAR-2006 10:38	1.0	1		25			1	

Stds used: 1=S1888

SEQUENCE SUMMARY FOR 185586 IC Water
Curtis & Tompkins Laboratories

Sequence: 606108987 Instrument: IC01 Ion Chromatograph Begun: 16-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
069	075_69.0	CCB		111418		17-MAR-2006 10:56	1.0		25				
070	075_70.0	X	CCV	111418		17-MAR-2006 11:14	1.0					1	
071	075_71.0	X	CCB	111418		17-MAR-2006 11:31	1.0						
072	075_72.0	X	SHUTDOWN	111418		17-MAR-2006 11:49	1.0						

946

Stds used: 1=S1888

SEQUENCE SUMMARY FOR 185586 IC Water
Curtis & Tompkins Laboratories

Sequence: 626108991 Instrument: IC03 Ion Chromatograph Begun: 16-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
007	075_7.00	X	PRIMER	111417		16-MAR-2006 15:36	1.0						
008	075_8.00	CCV	L	111417		16-MAR-2006 15:54	1.0		25			1	
009	075_9.00	CCB/MB	QC331968	111417	Water	16-MAR-2006 16:13	1.0		25				
010	075_10.0	BS	QC331969	111417	Water	16-MAR-2006 16:31	1.0		25			1	
011	075_11.0	BSD	QC331970	111417	Water	16-MAR-2006 16:49	1.0		25			1	
012	075_12.0	MSS	185577-011	111417	Water	16-MAR-2006 17:08	50.0		25				
013	075_13.0	MS	QC331971	111417	Water	16-MAR-2006 17:26	50.0		25			1	
014	075_14.0	MSD	QC331972	111417	Water	16-MAR-2006 17:51	50.0		25			1	
015	075_15.0	MSS	185577-011	111417	Water	16-MAR-2006 18:09	1.0	1	25				1:SO4=123.778
016	075_16.0	X	BLK	111417		16-MAR-2006 18:28	1.0						
017	075_17.0	SAMPLE	185577-008	111417	Water	16-MAR-2006 18:46	1.0		25				3:CL=117.826
018	075_18.0	X	BLK	111417		16-MAR-2006 19:04	1.0						
019	075_19.0	SAMPLE	185577-008	111417	Water	16-MAR-2006 19:23	25.0		25				
020	075_20.0	CCV	M	111417		16-MAR-2006 19:41	1.0		25			1	
021	075_21.0	CCB		111417		16-MAR-2006 20:00	1.0		25				
022	075_22.0	X	CCV	111417		16-MAR-2006 20:18	1.0					1	947
023	075_23.0	X	CCB	111417		16-MAR-2006 20:37	1.0						
024	075_24.0	SAMPLE	185578-001	111417	Water	16-MAR-2006 20:55	20.0		25				2:CL=98.6670
025	075_25.0	X	BLK	111417		16-MAR-2006 21:13	1.0						
026	075_26.0	X	BLK	111417		16-MAR-2006 21:32	1.0						
027	075_27.0	SAMPLE	185578-004	111417	Water	16-MAR-2006 21:50	10.0		25				1:SO4=129.103
028	075_28.0	X	BLK	111417		16-MAR-2006 22:09	1.0						
029	075_29.0	X	BLK	111417		16-MAR-2006 22:27	1.0						
030	075_30.0	SAMPLE	185572-001	111417	Water	16-MAR-2006 22:45	10.0		25				
031	075_31.0	SAMPLE	185572-002	111417	Water	16-MAR-2006 23:04	10.0		25				
032	075_32.0	SAMPLE	185572-003	111417	Water	16-MAR-2006 23:22	10.0		25				
033	075_33.0	SAMPLE	185572-001	111417	Water	16-MAR-2006 23:41	1.0	1	25				2:SO4=273.455
034	075_34.0	SAMPLE	185572-002	111417	Water	16-MAR-2006 23:59	1.0	1	25				2:SO4=234.893
035	075_35.0	SAMPLE	185572-003	111417	Water	17-MAR-2006 00:17	1.0	1	25				2:SO4=189.399
036	075_36.0	SAMPLE	185572-004	111417	Water	17-MAR-2006 00:36	1.0	1	25				2:SO4=337.891
037	075_37.0	SAMPLE	185572-005	111417	Water	17-MAR-2006 00:54	1.0	1	25				2:SO4=235.973

Stds used: 1=S1888

SEQUENCE SUMMARY FOR 185586 IC Water
Curtis & Tompkins Laboratories

Sequence: 626108991 Instrument: IC03 Ion Chromatograph Begun: 16-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
038	075_38.0	CCV	H	111417		17-MAR-2006 01:13	1.0		25			1	
039	075_39.0	CCB		111417		17-MAR-2006 01:31	1.0		25				
040	075_40.0	X	CCV	111417		17-MAR-2006 01:49	1.0					1	
041	075_41.0	X	CCB	111417		17-MAR-2006 02:08	1.0						
042	075_42.0	SAMPLE	185572-004	111417	Water	17-MAR-2006 02:26	10.0		25				
043	075_43.0	SAMPLE	185572-005	111417	Water	17-MAR-2006 02:45	10.0		25				
044	075_44.0	SAMPLE	185586-025	111417	Water	17-MAR-2006 03:03	1.0	2	25				2:CL=29.4543
045	075_45.0	X	BLK	111417		17-MAR-2006 03:22	1.0						
046	075_46.0	SAMPLE	185586-026	111417	Water	17-MAR-2006 03:40	1.0	1	25				1:CL=47.1846
047	075_47.0	X	BLK	111417		17-MAR-2006 03:58	1.0						
048	075_48.0	SAMPLE	185586-025	111417	Water	17-MAR-2006 04:17	10.0		25				
049	075_49.0	SAMPLE	185586-026	111417	Water	17-MAR-2006 04:35	10.0		25				
050	075_50.0	CCV	L	111417		17-MAR-2006 04:54	1.0		25			1	
051	075_51.0	CCB		111417		17-MAR-2006 05:12	1.0		25				
052	075_52.0	X	CCV	111417		17-MAR-2006 05:30	1.0					1	
053	075_53.0	X	CCB	111417		17-MAR-2006 05:49	1.0						
054	075_54.0	X	SHUTDOWN	111417		17-MAR-2006 06:07	1.0						

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Stds used: 1=S1888

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185586 IC Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	CL	NO2N	NO3N	SO4
185586-001	IC01	03/16/06 19:28	1.0	+		+	+	+
185586-001	IC01	03/17/06 03:03	25.0		+			
185586-002	IC01	03/16/06 19:10	1.0	+		+	+	+
185586-002	IC01	03/17/06 03:21	25.0		+			
185586-003	IC01	03/16/06 18:00	1.0	+		+	+	
185586-003	IC01	03/17/06 03:38	25.0		+			+
185586-004	IC01	03/16/06 19:46	1.0	+		+	+	
185586-004	IC01	03/17/06 03:56	10.0		+			+
185586-005	IC01	03/16/06 22:06	1.0	+		+	+	
185586-005	IC01	03/17/06 05:23	25.0		+			+
185586-006	IC01	03/16/06 22:23	1.0	+		+	+	
185586-006	IC01	03/17/06 05:41	25.0		+			+
185586-007	IC01	03/17/06 01:18	1.0	+	+	+	+	+
185586-009	IC01	03/16/06 18:18	1.0	+		+	+	+
185586-009	IC01	03/17/06 05:58	5.0		+			
185586-010	IC01	03/16/06 22:41	1.0	+		+	+	+
185586-010	IC01	03/17/06 06:16	5.0		+			
185586-011	IC01	03/16/06 22:58	1.0	+		+	+	+
185586-011	IC01	03/17/06 06:33	25.0		+			
185586-015	IC01	03/16/06 18:35	1.0	+		+	+	
185586-015	IC01	03/16/06 21:13	10.0		+			+
185586-016	IC01	03/16/06 18:53	1.0	+		+	+	
185586-016	IC01	03/17/06 06:51	25.0		+			+
185586-017	IC01	03/16/06 23:16	1.0	+		+	+	+
185586-017	IC01	03/17/06 07:08	5.0		+			
185586-018	IC01	03/16/06 23:33	1.0	+		+	+	+
185586-018	IC01	03/17/06 07:26	10.0		+			
185586-019	IC01	03/16/06 23:51	1.0	+		+	+	+
185586-019	IC01	03/17/06 07:43	10.0		+			
185586-020	IC01	03/17/06 01:36	1.0	+		+	+	+
185586-020	IC01	03/17/06 08:01	25.0		+			

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185586 IC Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	CL	NO2N	NO3N	SO4	
185586-021	IC01	03/17/06 01:53	1.0	+	+	+	+	+	
185586-021	IC01	03/17/06 09:28	10.0						
185586-022	IC01	03/17/06 02:11	1.0	+		+			
185586-022	IC01	03/17/06 09:46	10.0		+		+	+	
185586-023	IC01	03/17/06 02:28	1.0	+	+	+	+	+	
185586-023	IC01	03/17/06 10:03	5.0						
185586-024	IC01	03/17/06 02:46	1.0	+		+			
185586-024	IC01	03/17/06 10:21	10.0		+		+	+	
185586-025	IC03	03/17/06 03:03	1.0	+		+		+	
185586-025	IC03	03/17/06 04:17	10.0		+		+		
185586-026	IC03	03/17/06 03:40	1.0	+		+	+	+	
185586-026	IC03	03/17/06 04:35	10.0		+				
QC331968	IC03	03/16/06 16:13	1.0	+	+	+	+	+	
QC331969	IC03	03/16/06 16:31	1.0	+	+	+	+	+	
QC331970	IC03	03/16/06 16:49	1.0	+	+	+	+	+	
QC331971	IC03	03/16/06 17:26	50.0	+	+	+	+	+	
QC331972	IC03	03/16/06 17:51	50.0	+	+	+	+	+	
QC331973	IC01	03/16/06 15:52	1.0	+	+	+	+	+	
QC331974	IC01	03/16/06 16:09	1.0	+	+	+	+	+	
QC331975	IC01	03/16/06 16:27	1.0	+	+	+	+	+	
QC331976	IC01	03/16/06 21:31	10.0	+	+	+	+	+	
QC331977	IC01	03/16/06 21:48	10.0	+	+	+	+	+	

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111417
Date Started: 16-MAR-2006
Batched by : Micah Smith

Analysis : N/A
Bgroup : IC
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185572-001			LFR Levine Fricke	Water	NITRATE, SULFATE	22-MAR-2006
185572-002			LFR Levine Fricke	Water	NITRATE, SULFATE	22-MAR-2006
185572-003			LFR Levine Fricke	Water	NITRATE, SULFATE	22-MAR-2006
185572-004			LFR Levine Fricke	Water	NITRATE, SULFATE	22-MAR-2006
185572-005			LFR Levine Fricke	Water	NITRATE, SULFATE	22-MAR-2006
185577-008			Arcadis G&M	Water	BROMIDE	28-MAR-2006
185577-011			Arcadis G&M	Water	BROMIDE, CHLORIDE, NITRATE, NITRITE, SULFATE	28-MAR-2006
185578-001			Alta Environmental	Water	NITRATE, NITRITE	22-MAR-2006
185578-004			Alta Environmental	Water	NITRATE, NITRITE	22-MAR-2006
185586-025			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-MAR-2006
185586-026			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-MAR-2006
QC331968	BLANK			Water		
QC331969	BS			Water		
QC331970	BSD			Water		
QC331971	MS	of 185577-011		Water		
QC331972	MSD	of 185577-011		Water		

Curtis & Tompkins, Ltd. **Water Prep Log** Ion Chromatography

Analysis: ☑ Anions EPA 300 / EPA 9056
☐ Perchlorate (ClO_4) EPA 314
☐ Cr6+ EPA 7199

Batch#: 111417
Date Started: 3/16/06
Prep Chemist: MKS

BK 2267
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	Sample #	Conductivity	Estimated Dilution Factor	Filters Used	Comments
1	185572 -001 D	1.39	10x / 1x	S	
2	-002	1.39	/		
3	-003	1.11	/		
4	-004	1.66	/		
5	-005	1.39	/		
6	185577 -008 D	1.10	25x / 1x	S	
7	-011 I	2.64	50x / 1x	S	MSS
8	185578 -001 C	24.7	20x	S	
9	-004 D	16.9	10x	S	
10	185586 -025 K	MKS 3/17/06 ~~0.68~~ 0.63	1x / 10x	S	
11	-026 K	0.68	1x / 10x	S	
12	Blank QC331968	N/A	1x	N/A	
13	BS QC331969				
14	BSD QC331970				
15	MS QC331971 I		50x	S	
16	MSD QC331972 I		50x	S	
17					
18					
19					
20					

		Mfg & Lot # / Time / Program	Initials / Date
	Eluent Reagent ID	100x CP 12/6/05	MS 3/16/06
BS/BSD Spiked with	0.2 mL of :	51888	
MS/MSD Spiked with	0.1 mL of :	51888	
Filters Used:	Ag: OnGuard II Ag	N/A	
	Na: OnGuard II Na		
	P: OnGuard II P		
	RP: OnGuard II RP		
	S: 0.20um/0.45um	Accodisc lot #A10539346	

MS 3/17/06
Extraction Chemist / Date

Continued from page
Continued on page

CP 3/17/06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111418
Date Started: 16-MAR-2006
Batched by : Micah Smith

Analysis : N/A
Bgroup : IC
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185586-001			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-MAR-2006
185586-002			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-MAR-2006
185586-003			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-MAR-2006
185586-004			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-MAR-2006
185586-005			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-MAR-2006
185586-006			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-MAR-2006
185586-007			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-MAR-2006
185586-009			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-MAR-2006
185586-010			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-MAR-2006
185586-011			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-MAR-2006
185586-015			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-MAR-2006
185586-016			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-MAR-2006
185586-017			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-MAR-2006
185586-018			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-MAR-2006
185586-019			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-MAR-2006
185586-020			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-MAR-2006
185586-021			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-MAR-2006
185586-022			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-MAR-2006
185586-023			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-MAR-2006
185586-024			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-MAR-2006
QC331973	BLANK			Water		
QC331974	BS			Water		
QC331975	BSD			Water		
QC331976	MS	of 185586-015		Water		
QC331977	MSD	of 185586-015		Water		

Curtis & Tompkins, Ltd. **Water Prep Log** Ion Chromatography

Analysis: ☑ Anions EPA 300 / EPA 9056
☐ Perchlorate (ClO_4) EPA 314
☐ Cr6+ EPA 7199

Batch#: 111418
Date Started: 3/16/06
Prep Chemist: MRS

BK 2267
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	Sample #	Conductivity	Estimated Dilution Factor	Filters Used	Comments
1	185586-001 K	1.80	1x / 25x	S	
2	-002	1.30	/ 25x		
3	-003	1.01	/ 25x		
4	-004 E	0.97	/ 10x		
5	-005	1.53	/ 25x		
6	-006	1.20	/ 25x		
7	-007	0.05			
8	-009 I	0.40	/ 5x		
9	-010 F	0.59	/ 5x		
10	-011 F	1.11	/ 25x		
11	-015 P	0.85	/ 10x		MSS
12	-016 F	1.00	/ 25x		
13	-017 K	0.43	/ 5x		
14	-018	0.88	/ 10x		
15	-019	0.90	/ 10x		
16	-020	1.47	/ 25x		
17	-021	0.64	/ 10x		
18	-022	0.78	/ 10x		
19	-023	0.26	/ 5x		
20	-024 I	0.78	/ 10x		
	Blank QC331973	N/A	1x	N/A	
	BS QC331974				
	BSD QC331975				
	MS QC331976 P		10x	S	
	MSD QC331977 P		10x	S	

	Mfg & Lot # / Time / Program	Initials / Date
Eluent Reagent ID	100x CP 12/6/05	MS 3/16/06
BS/BSD Spiked with 0.2 mL of :	S1888	
MS/MSD Spiked with 0.1 mL of :	S1888	
Filters Used: Ag: OnGuard II Ag	N/A	
Na: OnGuard II Na		
P: OnGuard II P		
RP: OnGuard II RP		
S: 0.20um/0.45um	Acrodisc lot #A1053934G	

Mesa 3/17/06
Extraction Chemist / Date

Continued from page ___
Continued on page ___

CP 3/17/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 300.0 Water
As of 04/18/06

Analyte	Units	IC03	IC01
Fluoride	mg/L	0.023	0.018
Chloride	mg/L	0.032	0.026
Nitrogen, Nitrite	mg/L	0.012	0.0067
Bromide	mg/L	0.028	0.058
Nitrogen, Nitrate	mg/L	0.0088	0.018
Orthophosphate (as P)	mg/L	0.037	0.045
Sulfate	mg/L	0.079	0.046

Curtis & Tompkins, Ltd.

Sulfide

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 376.2
Analyte:	Sulfide	Batch#:	111556
Matrix:	Water	Sampled:	03/15/06
Units:	mg/L	Received:	03/16/06
Diln Fac:	1.000	Analyzed:	03/22/06

Field ID	Type	Lab ID	Result	RL
600GW102	SAMPLE	185586-001	ND	0.04
600GW103	SAMPLE	185586-002	ND	0.04
600GW104	SAMPLE	185586-003	ND	0.04
1065PZ7A	SAMPLE	185586-015	ND	0.04
1065PZ7B	SAMPLE	185586-016	ND	0.04
231GW09	SAMPLE	185586-017	ND	0.04
231GW11	SAMPLE	185586-018	ND	0.04
231GW23	SAMPLE	185586-019	ND	0.04
231GW25	SAMPLE	185586-020	ND	0.04
231GW28	SAMPLE	185586-021	ND	0.04
231GW27	SAMPLE	185586-022	ND	0.04
231GW20	SAMPLE	185586-023	ND	0.04
231GW18	SAMPLE	185586-024	ND	0.04
231GW17	SAMPLE	185586-025	ND	0.04
231GW06	SAMPLE	185586-026	ND	0.04
	BLANK	QC332528	ND	0.04

ND= Not Detected
RL= Reporting Limit

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REVISED

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Curtis & Tompkins, Ltd.

Batch QC Report

Sulfide

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 376.2
Analyte:	Sulfide	Diln Fac:	1.000
Field ID:	1065PZ7A	Batch#:	111556
MSS Lab ID:	185586-015	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	mg/L	Analyzed:	03/22/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC332529	<0.04000	0.3370	0.5330	158 *	75-125		
MSD	QC332530		0.3370	0.5031	149 *	75-125	6	20
LCS	QC332531		0.5055	0.4817	95	75-125		

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Analysis:	**SULFIDE**	Matrix:	Water
Method:	**EPA 376.2**	Batch:	**111556**
Instrument:	HP UV-VIS Spectrometer	Prep Date:	**3/22/2006**
Wavelength:	626 nm	Analysis Date:	**3/22/2006**
SOP#:	sulfide_376_rv 4.doc	Analyst:	DM

INITIAL CALIBRATION DATA

Calibration Date: 11/15/05

Conc (mg/L)	Absorb	RF
0.0000	0.0001	
0.0233	0.0090	0.3863
0.0466	0.0156	0.3348
0.1862	0.0555	0.2981
0.3725	0.1650	0.4430
0.7450	0.3293	0.4420
1.3040	0.5687	0.4361
1.6760	0.7467	0.4455

Correlation Coefficient (r):	0.9994
Avg Rf:	0.3980
%RSD:	15.1

Note: Average Rf used to calculate sample results.

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CONTINUING CALIBRATION DATA

	Absorb	Conc (mg/L)	True (mg/L)	Recovery	CV Limits
ICV	0.1917	0.4817	0.5055	95%	90 - 110%
ICB	0.0002	0.0005	0.0000		
CCV	0.1874	0.4709	0.5055	93%	90 - 110%
CCB	-0.0001	-0.0003	0.0000		
CCV	0.1948	0.4895	0.5055	97%	90 - 110%
CCB	0.0021	0.0053	0.0000		
CCV	0.1967	0.4943	0.5055	98%	90 - 110%
CCB	0.0020	0.0050	0.0000		

Analysis:	**SULFIDE**	Batch:	**111556**
Method:	**EPA 376.2**	Prep Date:	**3/22/2006**
Instrument:	HP UV-VIS Spectrometer	Analysis Date:	**3/22/2006**
Wavelength:	626 nm	Analyst:	DM
Matrix:	Water		

SAMPLE & BATCH QC DATA

Sample ID	Sample Vol (mL)	D.F.	Sample Absorb	Color Blk Absorb	**Report mg/L**	Reporting Limit (mg/L)	Vol Spike Added (mL)	Std Conc. (mg/L)	Spiked @ (mg/L)	**% Rec**	**% RPD**
MB	7.5000	1.0000	0.0002		**ND**	0.040					
LCS	7.5000	1.0000	0.1917		**0.48171**	0.040	1.0000	50.5472	0.5055	**95**	
185586-15	7.5000	1.0000	0.0044		**ND**	0.040					
185586-15ms	7.5000	1.0000	0.2121		**0.53297**	0.040	0.0500	50.5472	0.3370	**158 ***	
185586-15ms	7.5000	1.0000	0.2002		**0.50307**	0.040	0.0500	50.5472	0.3370	**149 ***	**6**
185577-11	7.5000	1.0000	0.1722		**0.43271**	0.040					
185586-1	7.5000	1.0000	0.0048		**ND**	0.040					
185586-2	7.5000	1.0000	0.0030		**ND**	0.040					
185586-3	7.5000	1.0000	0.0034		**ND**	0.040					
185586-9	7.5000	1.0000	0.0093		**ND**	0.040					
185586-16	7.5000	1.0000	0.0036		**ND**	0.040					
185586-17	7.5000	1.0000	0.0018		**ND**	0.040					
185586-18	7.5000	1.0000	0.0047		**ND**	0.040					
185586-19	7.5000	1.0000	0.0040		**ND**	0.040					
185586-20	7.5000	1.0000	0.0066		**ND**	0.040					
185586-21	7.5000	1.0000	0.0030		**ND**	0.040					
185586-22	7.5000	1.0000	0.0010		**ND**	0.040					
185586-23	7.5000	1.0000	0.0014		**ND**	0.040					

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	20	42 - 121

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185586-24	7.5000	1.0000	-0.0006	**ND**	0.040
185586-25	7.5000	1.0000	-0.0002	**ND**	0.040
185586-26	7.5000	1.0000	0.0023	**ND**	0.040

Reviewed by/ Date: 3.28.06

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---> Quantitation Results Report <---

Date : 03-~~17~~ 22-2006
Time : 12:02:09 3-22
Operator : Not Entered

File Name : Data not stored yet

Sample Name : sulfide
Solvent Name : CAL11-15-05
Conc Units : mg/L
Dil. Factor : 1.00

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

SAMPLE #	Sample Name	Wavelength	Func. Res.	Concentration
1	icb/mb	Analytical	+0.0002	5.186E-04
2	icv/lcs	Analytical	+0.1917	0.43441
3	185577-11	Analytical	+0.1722	0.39022
4	185586-1	Analytical	+0.0048	0.01092
5	185586-2	Analytical	+0.0030	0.00685
6	185586-3	Analytical	+0.0034	0.00764
7	185586-9	Analytical	+0.0093	0.02112
8	185586-15	Analytical	+0.0044	0.00999
9	185586-15ms	Analytical	+0.2121	0.48053
10	185586-15msd	Analytical	+0.2002	0.45370
11	ccv	Analytical	+0.1874	0.42455
12	ccb	Analytical	-0.0001	0.00000
13	185586-16	Analytical	+0.0036	0.00812
14	185586-17	Analytical	+0.0018	0.00398
15	185586-18	Analytical	+0.0047	0.01058
16	185586-19	Analytical	+0.0040	0.00906
17	185586-20	Analytical	+0.0066	0.01504
18	185586-21	Analytical	+0.0030	0.00685

19	185586-22	Analytical	+0.0010	0.00232
20	185586-23	Analytical	+0.0014	0.00322
21	185586-24	Analytical	-0.0006	0.00000
22	185586-25	Analytical	-0.0002	0.00000
23	ccv	Analytical	+0.1948	0.44146
24	ccb	Analytical	+0.0021	0.00477
25	185586-26	Analytical	+0.0023	0.00515
26	ccv	Analytical	+0.1967	0.44568
27	ccb	Analytical	+0.0020	0.00446

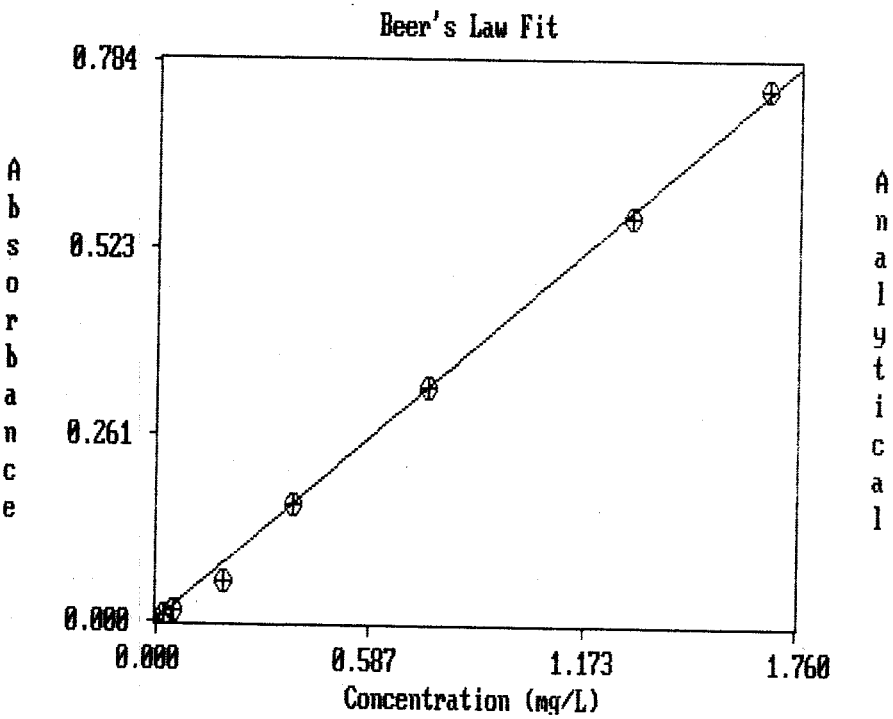
---> Standard Calibration Report <---

Date : 03-~~17~~ 22-2006
Time : 12:02:43 3-22-06
Operator : Not Entered

ile Name : C:\UV\DATA\ss1105.STD

ample Name : sulfide
olvent Name : CAL11-15-05
onc Units : mg/L

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds



---> **Standard Calibration Report** <---

Date : 03-~~17~~ 22-2006
Time : 12:02:42 ~~3~~ 22-06 pm
Operator : Not Entered

File Name : C:\UV\DATA\ss1105.STD

Sample Name : sulfide
Solvent Name : CAL11-15-05
Conc Units : mg/L

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

Analytical Function Concentration = +2.266E+00 * Absorbance

STD #	Concentration	Absorbance	% Error
1	0.00000	0.0001	*****
2	0.37250	0.1650	-0.366 %
3	0.74500	0.3293	-0.135 %
4	1.30400	0.5687	+1.198 %
5	1.67600	0.7467	-0.933 %
6	0.02330	0.0090	+14.422 %
7	0.04660	0.0156	+31.758 %
8	0.18620	0.0555	+48.042 %

Sulfate EPA 375.2 B 11556

Sample	Vol (ml)	Final Vol (ml)	ABS	
185586-1	7.5	7.5	.0048	
-2			.0030	
-3			.0034	S std
-9			.0093	≈4g .04552992, 50ml DI water
-15			.0044	
				1.05=
-15 MS	+.05ml .50547 mg/L from .04552992		.2121	5.0I, .0215N
				1.30ml S_2O_3 .02194
-15 MSD	Same as MS		.2002	
				.10750
-16			.0036	-.02852
-17			.0018	.07898x16000
-18			.0047	1.0
-19			.0040	=1263.68mg/L
-20			.0066	1:25= 50.5472 mg/L
-21			.0030	1.05 → 7.5 = .3370 mg/L
-22			.0010	
-23			.0014	1:100 = .5055 mg/L
-24			-.0006	
-25			-.0002	
-26			.0023	
185577-11			.1722	
ICB/MB			.0002	
ICV/LCS	1ml .50547 mg/L → 100ml, use 7.5ml		.1917	TV=.5055 mg/L
CCV			.1874	
CCB			-.0001	
CCV			.1948	
CCB			.0021	
CCV			.1967	
CCB			.0020	

Continued on Page

Read and Understood By

Signed: DW Date: 3-22-06 Signed: S.T. Date: 3.28.06

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111556
Date Started: 22-MAR-2006
Batched by : Dennis McCanna

Analysis : SULFIDE
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185577-011			Arcadis G&M	Water	SULFIDE	28-MAR-2006
185586-001			Treadwell & Rollo	Water	SULFIDE	28-MAR-2006
185586-002			Treadwell & Rollo	Water	SULFIDE	28-MAR-2006
185586-003			Treadwell & Rollo	Water	SULFIDE	28-MAR-2006
185586-009			Treadwell & Rollo	Water	SULFIDE	28-MAR-2006
185586-015			Treadwell & Rollo	Water	SULFIDE	28-MAR-2006
185586-016			Treadwell & Rollo	Water	SULFIDE	28-MAR-2006
185586-017			Treadwell & Rollo	Water	SULFIDE	28-MAR-2006
185586-018			Treadwell & Rollo	Water	SULFIDE	28-MAR-2006
185586-019			Treadwell & Rollo	Water	SULFIDE	28-MAR-2006
185586-020			Treadwell & Rollo	Water	SULFIDE	28-MAR-2006
185586-021			Treadwell & Rollo	Water	SULFIDE	28-MAR-2006
185586-022			Treadwell & Rollo	Water	SULFIDE	28-MAR-2006
185586-023			Treadwell & Rollo	Water	SULFIDE	28-MAR-2006
185586-024			Treadwell & Rollo	Water	SULFIDE	28-MAR-2006
185586-025			Treadwell & Rollo	Water	SULFIDE	28-MAR-2006
185586-026			Treadwell & Rollo	Water	SULFIDE	28-MAR-2006
QC332528	BLANK			Water	SULFIDE	
QC332529	MS	of 185586-015		Water	SULFIDE	
QC332530	MSD	of 185586-015		Water	SULFIDE	
QC332531	LCS			Water	SULFIDE	

Analysis:	Sulfide	Analysis Date:	4/14/2005
Method:	EPA 376.2	Analyst:	DM
Instrument:	HP UV/Vis		
Wavelength:	626 nm		

Instrument Calibrated to report sample results in concentration: mg/L

Concentration:	0.1098
Units:	mg/L
1	0.100
2	0.104
3	0.105
4	0.096
5	0.096
6	0.095
7	0.092
Average:	0.098 ug/L
Std Deviation:	0.004691
Student T:	3.143

(Student-T value for 7 replicates = 3.143, for 8 replicates = 2.998)

MDL = Student T * StdDev:	**0.0147** mg/L
Reporting Limit:	0.04 mg/L
Status:	PASS >1/3 RL

Curtis & Tompkins, Ltd.

Total Dissolved Solids (TDS)

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Sampled:	03/15/06
Matrix:	Water	Received:	03/16/06
Units:	mg/L	Analyzed:	03/22/06
Batch#:	111576		

Field ID	Type	Lab ID	Result	RL	Diln Fac
600GW102	SAMPLE	185586-001	1,110	50	5.000
600GW103	SAMPLE	185586-002	790	50	5.000
600GW104	SAMPLE	185586-003	510	50	5.000
DAEGW07	SAMPLE	185586-009	300	50	5.000
BB3PZ102	SAMPLE	185586-010	540	50	5.000
BB3SW102	SAMPLE	185586-011	780	50	5.000
1065PZ7A	SAMPLE	185586-015	370	50	5.000
1065PZ7B	SAMPLE	185586-016	650	50	5.000
231GW09	SAMPLE	185586-017	320	50	5.000
231GW11	SAMPLE	185586-018	500	50	5.000
231GW23	SAMPLE	185586-019	600	50	5.000
231GW25	SAMPLE	185586-020	610	50	5.000
231GW28	SAMPLE	185586-021	370	50	5.000
231GW27	SAMPLE	185586-022	490	50	5.000
231GW20	SAMPLE	185586-023	240	50	5.000
231GW18	SAMPLE	185586-024	520	50	5.000
231GW17	SAMPLE	185586-025	480	50	5.000
231GW06	SAMPLE	185586-026	440	50	5.000
	BLANK	QC332600	ND	10	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Dissolved Solids (TDS)

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Batch#:	111576
Field ID:	1065PZ7A	Sampled:	03/15/06
MSS Lab ID:	185586-015	Received:	03/16/06
Matrix:	Water	Analyzed:	03/22/06
Units:	mg/L		

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim	Diln Fac
BS	QC332601		100.0	88.00		88	79-121			1.000
BSD	QC332602		100.0	86.00		86	79-121	2	20	1.000
SDUP	QC332603	370.0		550.0	50.00			39 *	20	5.000

*= Value outside of QC limits; see narrative
RL= Reporting Limit
RPD= Relative Percent Difference

Analysis:	**Total Dissolved Solids**	Analysis Date:	**22-Mar-06**
Method:	**EPA160.1** / SMWW 2540c	Batch #:	**111576**
Matrix:	Water	Analyst:	RS
SOP#:	tds_rv 9.doc		

BATCH QC DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)	Spike Std Conc (mg/L)	Spike Vol.Used (mL)	Spiking Level (mg/L)	**Recovery,%**	**RPD,%**
MB	50	1	55.7028	55.7020	-0.0008	ND	10					
BS	50	1	50.4031	50.4075	0.0044	88.0	10	1,000	5	100	**88**	
BSD	50	1	53.0697	53.0740	0.0043	86.0	10	1,000	5	100	**86**	**2.30**
185586-015	10	5	25.4635	25.4672	0.0037	370.0	50					
SDUP	10	5	24.3479	24.3534	0.0055	550.0	50					**39.13** *

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	79 - 121
MS/ MSD	20	69 - 131

SAMPLE DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)
185586-001	10	5	50.6611	50.6722	0.0111	1,110.0	50
185586-002	10	5	50.6636	50.6715	0.0079	790.0	50
185586-003	10	5	44.0396	44.0447	0.0051	510.0	50
185586-009	10	5	49.3440	49.3470	0.0030	300.0	50
185586-010	10	5	45.9394	45.9448	0.0054	540.0	50
185586-011	10	5	29.0493	29.0571	0.0078	780.0	50
185586-016	10	5	24.4005	24.4070	0.0065	650.0	50
185586-017	10	5	26.3755	26.3787	0.0032	320.0	50
185586-018	10	5	25.3586	25.3636	0.0050	500.0	50
185586-019	10	5	25.9394	25.9454	0.0060	600.0	50
185586-020	10	5	29.1933	29.1994	0.0061	610.0	50
185586-021	10	5	27.6001	27.6038	0.0037	370.0	50
185586-022	10	5	25.7345	25.7394	0.0049	490.0	50
185586-023	10	5	27.6466	27.6490	0.0024	240.0	50
185586-024	10	5	25.9501	25.9553	0.0052	520.0	50
185586-025	10	5	24.4203	24.4251	0.0048	480.0	50
185586-026	10	5	27.8756	27.8800	0.0044	440.0	50

Note: Because the regulatory holding time is based on the prep date, the analysis date referenced above is the prep date.

Reviewed by/ Date: 3-29-6

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TDS (Total Dissolved Solids)
EPA 160.1 / SMWW 2540C

Curtis & Tompkins, Ltd.

LIMS Batch #: 111576

Prep Date: 3-22-06
Prep Time: 17:20

Benchbook#: **BK2145**
Page: **89**

Filter Mfg/ Lot#: F1672870
Spike WS#: S2182

Spike WS Conc (mg/L): ~~5~~ 1,000 RS 3/22
Spike Vol Added (mL): 5

	In	Out	In-2	Out-2	In-3	Out-3
Date:	3-22-06	3-23-06	3-23-06	3-23-06	3-23-06	3-23-06
Time:	22:10	11:40	13:00	14:00	16:00	17:00
Temp (C):	90°C	180°C	180°C	180°C	180°C	180°C

	Sample # / Letter	EC Value (µS/cm)	Sample Vol. Filtered (mL)	Dish ID	Dish Wt (g)	1st Dry Wt.(g)	2nd Dry Wt (g)*	3rd Dry Wt (g)*
1	MB		50	EA	55.7028	55.7020	55.7020	
	BS			MM	50.4031	50.4075	50.4078	RS 3/23
	BSD			TT	53.0697	53.0740	53.0742	
	185586-001	1,845	10	X	50.6611	50.6699	50.6672 6/22	50.6721
5	-002	1,319		Z	50.6636	50.6694	50.6715 RS 3/23	50.6713
	-003	1,022		1	44.0396	44.0447	44.0450	
	-009 I	410		8	49.3440	49.3448	49.3470	49.3474
	-010 F	608		28	45.9394	45.9448	45.9451	
	-011	1,133		LCS	29.0493	29.0571	29.0570	
10	-015 Q	804		JJ	25.4635	25.4672	25.4670	
	dup -015			LKF	24.3479	24.3534	24.3530	
	-016 F	1,021		M	24.4005	24.4070	24.4068	
	-017 K	430		50	26.3755	26.3787	26.3786	
	-018	880		LM	25.3586	25.3636	25.3634	
15	-019	1,000		FS	25.9394	25.9454	25.9458	
	-020	1,513		E7	29.1933	29.1994	29.1998	RS 3/23/06
	-021	651		E8	27.6001	27.6038	27.6036	
	-022	764		MM	25.7345	25.7394	25.7390	
	-023	230		AA	27.6466	27.6490	27.6493	
20	-024 I	800		+	25.9501	25.9553	25.9551	
	-025 K	650		LM	24.4203	24.4251	24.4250	
	-026 K	640		LMK	27.8756	27.8800	27.8800	
						RS 3/22/06		

* Constant weight must be within 0.0005 from previous reading.

RSCiFFo 3/22/06
Analyst / Date

Jason Apen 3-23-06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111576
Date Started: 22-MAR-2006
Batched by : Radia Shiffa

Analysis : TDS
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185586-001			Treadwell & Rollo	Water	TDS	28-MAR-2006
185586-002			Treadwell & Rollo	Water	TDS	28-MAR-2006
185586-003			Treadwell & Rollo	Water	TDS	28-MAR-2006
185586-009			Treadwell & Rollo	Water	TDS	28-MAR-2006
185586-010			Treadwell & Rollo	Water	TDS	28-MAR-2006
185586-011			Treadwell & Rollo	Water	TDS	28-MAR-2006
185586-015			Treadwell & Rollo	Water	TDS	28-MAR-2006
185586-016			Treadwell & Rollo	Water	TDS	28-MAR-2006
185586-017			Treadwell & Rollo	Water	TDS	28-MAR-2006
185586-018			Treadwell & Rollo	Water	TDS	28-MAR-2006
185586-019			Treadwell & Rollo	Water	TDS	28-MAR-2006
185586-020			Treadwell & Rollo	Water	TDS	28-MAR-2006
185586-021			Treadwell & Rollo	Water	TDS	28-MAR-2006
185586-022			Treadwell & Rollo	Water	TDS	28-MAR-2006
185586-023			Treadwell & Rollo	Water	TDS	28-MAR-2006
185586-024			Treadwell & Rollo	Water	TDS	28-MAR-2006
185586-025			Treadwell & Rollo	Water	TDS	28-MAR-2006
185586-026			Treadwell & Rollo	Water	TDS	28-MAR-2006
QC332600	BLANK			Water	TDS	
QC332601	BS			Water	TDS	
QC332602	BSD			Water	TDS	
QC332603	SDUP	of 185586-015		Water	TDS	

Curtis & Tompkins, Ltd.

Total Organic Carbon (TOC)

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 415.2
Analyte:	Total Organic Carbon	Diln Fac:	1.000
Matrix:	Water	Sampled:	03/15/06
Units:	mg/L	Received:	03/16/06

Field ID	Type	Lab ID	Result	RL	Batch#	Analyzed
600GW102	SAMPLE	185586-001	5.9	0.50	112182	04/07/06
600GW103	SAMPLE	185586-002	5.7	0.50	112182	04/07/06
600GW104	SAMPLE	185586-003	3.4	0.50	112182	04/07/06
231GW09	SAMPLE	185586-017	0.88	0.50	112182	04/07/06
231GW11	SAMPLE	185586-018	2.0	0.50	112182	04/07/06
231GW23	SAMPLE	185586-019	8.2	0.50	112182	04/07/06
231GW25	SAMPLE	185586-020	11	0.50	112182	04/07/06
231GW28	SAMPLE	185586-021	8.4	0.50	112208	04/10/06
231GW27	SAMPLE	185586-022	1.2	0.50	112208	04/10/06
231GW20	SAMPLE	185586-023	1.7	0.50	112208	04/10/06
231GW18	SAMPLE	185586-024	1.1	0.50	112208	04/10/06
231GW17	SAMPLE	185586-025	0.74	0.50	112208	04/10/06
231GW06	SAMPLE	185586-026	1.5	0.50	112208	04/10/06
	BLANK	QC335024	ND	0.50	112182	04/07/06
	BLANK	QC335114	ND	0.50	112208	04/10/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Organic Carbon (TOC)

Lab #:	185586	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 415.2
Analyte:	Total Organic Carbon	Units:	mg/L
Matrix:	Water	Diln Fac:	1.000

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim	Batch#	Analyzed
BS	QC335025	15.00	15.27	102	80-120			112182	04/07/06
BSD	QC335026	15.00	15.56	104	80-120	2	20	112182	04/07/06
BS	QC335115	15.00	15.46	103	80-120			112208	04/10/06
BSD	QC335116	15.00	15.54	104	80-120	0	20	112208	04/10/06

RPD= Relative Percent Difference

Analysis:	**Total Inorganic & Organic Carbon**	Date Analyzed:	**07-Apr-06**
Method:	**EPA 415.2 / SMWW 5310c**	Batch #:	**112182**
Matrix:	Water	Analyst:	SY
Instrument:	Tekmar-Dorman		
SOP#:	toc_415_rv 7.doc		

Calibration Range: **0.5- 20ppm** Calibration Date: 16-Feb-05

Standard Conc (mg/L)	Injection Size (mL)	Expected ug C	ABS	RF
0	4.0	0	285214	
0.5	4.0	2.0	1020522	510261
1.0	4.0	4.0	1372216	343054
5.0	4.0	20.0	5433587	271679
10.0	4.0	40.0	10544965	263624
20.0	4.0	80.0	22033950	275424

Correlation Coefficient (r):	0.9995	Slope:	269261
R-Square:	0.9989	Intercept:	229731

Calibration Verification Data

	TOC (mg/L) True Value	Instrument "ppm C"	TOC (mg/L) Report	Recovery	Recovery Limits
ICV	15.0	15.27	15.2731	102%	90% - 110%
ICB	0	0.08	ND		
CCV	15.0	14.78	14.7828	99%	90% - 110%
CCB	0	0.31	ND		

Analysis:	**Total Inorganic & Organic Carbon**	Date Analyzed:	**07-Apr-06**
Method:	**EPA 415.2 / SMWW 5310c**	Batch #:	**112182**
Matrix:	Water	Analyst:	SY
Instrument:	Tekmar-Dorman		

Batch QC Data

Sample	PDF	Instrument "ppm C"	**TOC (mg/L) Report**	Reporting Limit (mg/L)	TOC Spike Level (mg/L)	Recovery,%	%RPD
BLANK	1	0.0842	**ND**	0.5			
BS	1	15.2731	**15.2731**	0.5	15	101.8	
BSD	1	15.5588	**15.5588**	0.5	15	103.7	1.85

QC Limits	Recovery	RPD
LCS/ BS/ BSD	80 - 120	20
SSPIKE/ SDUP	80 - 135	20

Sample Data

Sample	IDF	Instrument "ppm C"	**TOC (mg/L) Report**	Reporting Limit (mg/L)
185586-1	1	5.93	**5.93**	0.5
185586-2	1	5.65	**5.65**	0.5
185586-3	1	3.37	**3.37**	0.5
185586-17	1	0.88	**0.88**	0.5
185586-18	1	2.01	**2.01**	0.5
185586-19	1	8.19	**8.19**	0.5
185586-20	1	10.87	**10.87**	0.5

Am 4-10-06

Detailed Analysis Report Print Date/Time: 2006/04/10 6:03:42

Sample ID: blk
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 04071108
Timestamp: 04/07/2006 11:21
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2047	0.8187	349230	33.842	34.833	62
2	0.0892	0.3567	224850	33.897	34.892	55

<<<Statistics>>> Mean: 0.1469 Std Dev: 0.0817 RSD: 55.58

Sample ID: icb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 04071108
Timestamp: 04/07/2006 11:34
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0842	0.3367	219446	34.025	35.024	54
2	0.0732	0.2926	207595	34.056	35.048	53

<<<Statistics>>> Mean: 0.0787 Std Dev: 0.0078 RSD: 9.88

Sample ID: 15 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 04071108
Timestamp: 04/07/2006 11:50
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	15.2731	61.0923	16679493	34.093	35.092	146
2	15.3633	61.4531	16776646	34.383	35.381	139

<<<Statistics>>> Mean: 15.3182 Std Dev: 0.0638 RSD: 0.42

Sample ID: bsd
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 04071108
Timestamp: 04/07/2006 12:06
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	15.5588	62.2352	16886288	34.376	35.374	129
2	15.5084	62.0337	16832052	34.513	35.513	131

<<<Statistics>>> Mean: 15.5336 Std Dev: 0.0356 RSD: 0.23

Sample ID: 185586-1H
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 04071108
Timestamp: 04/07/2006 12:21
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.9316	23.7264	6517379	34.679	35.673	102
2	5.9907	23.9628	6581032	34.519	35.513	106

<<<Statistics>>> Mean: 5.9612 Std Dev: 0.0418 RSD: 0.70

Sample ID: 185586-2G
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 04071108
Timestamp: 04/07/2006 12:36
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.6525	22.6100	6216791	34.455	35.454	101
2	6.0792	24.3167	6676322	34.489	35.486	115

<<<Statistics>>> Mean: 5.8658 Std Dev: 0.3017 RSD: 5.14

Sample ID: 185586-3G
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 04071108
Timestamp: 04/07/2006 12:50
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.3652	13.4609	3753292	34.532	35.524	71
2	3.5459	14.1836	3947894	34.473	35.473	72

<<<Statistics>>> Mean: 3.4556 Std Dev: 0.1278 RSD: 3.70

Sample ID: 185586-17G
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 04071108
Timestamp: 04/07/2006 13:03
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.8758	3.5033	1072108	34.457	35.456	62
2	0.8355	3.3421	1028701	34.516	35.506	62

<<<Statistics>>> Mean: 0.8557 Std Dev: 0.0285 RSD: 3.33

SY 4-10 185586-18G

Sample ID: ~~18586-18G~~
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 04071108
Timestamp: 04/07/2006 13:17
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.0141	8.0565	2298108	34.556	35.556	73
2	2.0859	8.3434	2375356	34.463	35.457	76

<<<Statistics>>> Mean: 2.0500 Std Dev: 0.0508 RSD: 2.48

Sample ID: 185586-19G
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 04071108
Timestamp: 04/07/2006 13:33
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	8.1888	32.7553	8948507	34.507	35.503	133
2	8.0564	32.2257	8805926	34.721	35.720	125

<<<Statistics>>> Mean: 8.1226 Std Dev: 0.0936 RSD: 1.15

Sample ID: 185586-20G
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 04071108
Timestamp: 04/07/2006 13:49
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.8705	43.4821	11836814	34.672	35.671	139
2	11.4130	45.6521	12421123	34.939	35.938	136

<<<Statistics>>> Mean: 11.1418 Std Dev: 0.3836 RSD: 3.44

TOC 1000ppm (S2952 Exp Jun-18-06)
ICV/BS, BSD
3ml → 200ml @ 15ppm
SY
4.10.06

Sample ID: 15 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 04071108
Timestamp: 04/07/2006 14:05
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.7828	59.1314	16151485	34.778	35.777	135
2	14.6707	58.6827	16030693	34.808	35.807	165

<<<Statistics>>> Mean: 14.7267 Std Dev: 0.0793 RSD: 0.54

Sample ID: ccb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 04071108
Timestamp: 04/07/2006 14:19
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.3111	1.2446	463911	34.710	35.702	56
2	0.1875	0.7500	330734	34.588	35.584	55

<<<Statistics>>> Mean: 0.2493 Std Dev: 0.0874 RSD: 35.06

Sample ID: 185586-21G
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 04071108
Timestamp: 04/07/2006 14:34
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7.6189	30.4756	8334694	34.528	35.527	110
2	7.7969	31.1877	8526418	34.580	35.580	111

<<<Statistics>>> Mean: 7.7079 Std Dev: 0.1259 RSD: 1.63

Sample ID: 185586-22G
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 04071108
Timestamp: 04/07/2006 14:47
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.2627	5.0508	1488779	34.587	35.577	66
2	1.1207	4.4830	1335886	34.446	35.438	66

<<<Statistics>>> Mean: 1.1917 Std Dev: 0.1004 RSD: 8.43

Sample ID: 185586-23G
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 04071108
Timestamp: 04/07/2006 15:01
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.4576	5.8303	1698655	34.449	35.443	70
2	1.4737	5.8947	1716018	34.615	35.608	68

<<<Statistics>>> Mean: 1.4657 Std Dev: 0.0114 RSD: 0.78

Sample ID: 185586-24K
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 04071108
Timestamp: 04/07/2006 15:15
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 112182
Date Started: 07-APR-2006
Batched by : Sunitha Yerragodula

Analysis : TOC
Bgroup : N/A
Department : Wet Chemistry

Sample	Type	Client	Matrix	Analyses	Due Date
185586-001		Treadwell & Rollo	Water	TOC	28-MAR-2006
185586-002		Treadwell & Rollo	Water	TOC	28-MAR-2006
185586-003		Treadwell & Rollo	Water	TOC	28-MAR-2006
185586-017		Treadwell & Rollo	Water	TOC	28-MAR-2006
185586-018		Treadwell & Rollo	Water	TOC	28-MAR-2006
185586-019		Treadwell & Rollo	Water	TOC	28-MAR-2006
185586-020		Treadwell & Rollo	Water	TOC	28-MAR-2006
QC335024	BLANK		Water	TOC	
QC335025	BS		Water	TOC	
QC335026	BSD		Water	TOC	

Analysis:	**Total Inorganic & Organic Carbon**	Date Analyzed:	**10-Apr-06**
Method:	**EPA 415.2 / SMWW 5310c**	Batch #:	**112208**
Matrix:	Water	Analyst:	SY
Instrument:	Tekmar-Dorman		
SOP#:	toc_415_rv 7.doc		

Calibration Range: 0.5- 20ppm Calibration Date: 16-Feb-05

Standard Conc (mg/L)	Injection Size (mL)	Expected ug C	ABS	RF
0	4.0	0	285214	
0.5	4.0	2.0	1020522	510261
1.0	4.0	4.0	1372216	343054
5.0	4.0	20.0	5433587	271679
10.0	4.0	40.0	10544965	263624
20.0	4.0	80.0	22033950	275424

Correlation Coefficient (r):	0.9995	Slope:	269261
R-Square:	0.9989	Intercept:	229731

Calibration Verification Data

	TOC (mg/L) True Value	Instrument "ppm C"	TOC (mg/L) Report	Recovery	Recovery Limits
ICV	15.0	15.46	15.4646	103%	90% - 110%
ICB	0.08	0.22	ND		
CCV	15.0	16.46	16.4602	110%	90% - 110%
CCB	0	0.21	ND		

Analysis:	**Total Inorganic & Organic Carbon**	Date Analyzed:	**10-Apr-06**
Method:	**EPA 415.2 / SMWW 5310c**	Batch #:	**112182**
Matrix:	Water	Analyst:	SY
Instrument:	Tekmar-Dorman		

Batch QC Data

Sample	PDF	Instrument "ppm C"	**TOC (mg/L) Report**	Reporting Limit (mg/L)	TOC Spike Level (mg/L)	Recovery,%	%RPD
BLANK	1	0.2194	**ND**	0.5			
BS	1	15.4646	**15.4646**	0.5	15	103.1	
BSD	1	15.5404	**15.5404**	0.5	15	103.6	0.49

QC Limits	Recovery	RPD
LCS/ BS/ BSD	80 - 120	20
SSPIKE/ SDUP	80 - 135	20

Sample Data

Sample	IDF	Instrument "ppm C"	**TOC (mg/L) Report**	Reporting Limit (mg/L)
185586-21	1	8.43	**8.43**	0.5
185586-22	1	1.17	**1.17**	0.5
185586-23	1	1.68	**1.68**	0.5
185586-24	1	1.07	**1.07**	0.5
185586-25	1	0.74	**0.74**	0.5
185586-26	1	1.45	**1.45**	0.5

4-10-06

Detailed Analysis Report Print Date/Time: 2006/04/10 13:27:32

Sample ID: blk
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 04101023
Timestamp: 04/10/2006 10:37
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2929	1.1717	444299	37.609	38.606	67
2	0.2283	0.9131	374646	37.549	38.544	64

<<<Statistics>>> Mean: 0.2606 Std Dev: 0.0457 RSD: 17.53

Sample ID: icb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 04101023
Timestamp: 04/10/2006 10:50
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2194	0.8774	365051	37.384	38.382	62
2	0.2136	0.8546	358894	37.227	38.217	60

<<<Statistics>>> Mean: 0.2165 Std Dev: 0.0041 RSD: 1.89

Sample ID: 15 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 04101023
Timestamp: 04/10/2006 11:07
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	15.4646	61.8583	16885736	37.492	38.492	137
2	16.1523	64.6093	17626478	37.628	38.628	150

<<<Statistics>>> Mean: 15.8084 Std Dev: 0.4863 RSD: 3.08

Sample ID: bsd
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 04101023
Timestamp: 04/10/2006 11:24
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	15.5404	62.1615	16866448	37.545	38.543	164
2	16.0513	64.2054	17416790	37.351	38.346	124

<<<Statistics>>> Mean: 15.7958 Std Dev: 0.3613 RSD: 2.29

Sample ID: 185586-21H
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 04101023
Timestamp: 04/10/2006 11:39
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	8.4284	33.7138	9206595	37.848	38.839	95
2	8.7087	34.8346	9508400	37.095	38.093	137

<<<Statistics>>> Mean: 8.5686 Std Dev: 0.1982 RSD: 2.31

Sample ID: 185586-22H
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 04101023
Timestamp: 04/10/2006 11:54
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.1682	4.6730	1387047	36.892	37.885	81
2	1.0748	4.2992	1286393	36.889	37.889	83

<<<Statistics>>> Mean: 1.1215 Std Dev: 0.0660 RSD: 5.89

Sample ID: 185586-23H
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 04101023
Timestamp: 04/10/2006 12:09
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.6834	6.7337	1941918	36.723	37.721	77
2	1.7345	6.9379	1996906	36.740	37.739	87

<<<Statistics>>> Mean: 1.7090 Std Dev: 0.0361 RSD: 2.11

Sample ID: 185586-24H
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 04101023
Timestamp: 04/10/2006 12:23
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.0693	4.2771	1280456	36.729	37.729	87
2	1.0157	4.0628	1222757	36.693	37.690	83

<<<Statistics>>> Mean: 1.0425 Std Dev: 0.0379 RSD: 3.64

Sample ID: 185586-25H
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 04101023
Timestamp: 04/10/2006 12:38
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.7388	2.9553	924532	36.703	37.698	79
2	0.7956	3.1822	985645	36.761	37.759	80

<<<Statistics>>> Mean: 0.7672 Std Dev: 0.0402 RSD: 5.24

Sample ID: 185586-26H
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 04101023
Timestamp: 04/10/2006 12:53
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.4454	5.7817	1685569	36.754	37.753	91
2	1.5243	6.0970	1770486	36.578	37.575	91

<<<Statistics>>> Mean: 1.4848 Std Dev: 0.0558 RSD: 3.76

Sample ID: 15 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 04101023
Timestamp: 04/10/2006 13:11
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	16.4602	65.8409	17958112	36.568	37.568	199
2	16.3312	65.3246	17819096	36.592	37.591	167

<<<Statistics>>> Mean: 16.3957 Std Dev: 0.0912 RSD: 0.56

TOC Std: 1000 ppm
(S2952 Exp Jun-18-06)
ICV/BS, BSD
↓
3 ml → 200 ml @ 15 ppm

SY
4.10.06

Sample ID: ccb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 04101023
Timestamp: 04/10/2006 13:25
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.4052	1.6209	565237	36.486	37.478	65
2	0.2067	0.8267	351393	36.320	37.320	60

<<<Statistics>>> Mean: 0.3059 Std Dev: 0.1404 RSD: 45.88

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 112208
Date Started: 10-APR-2006
Batched by : Sunitha Yerragodula

Analysis : TOC
Bgroup : N/A
Department : Wet Chemistry

Sample	Type	Client	Matrix	Analyses	Due Date
185586-021		Treadwell & Rollo	Water	TOC	28-MAR-2006
185586-022		Treadwell & Rollo	Water	TOC	28-MAR-2006
185586-023		Treadwell & Rollo	Water	TOC	28-MAR-2006
185586-024		Treadwell & Rollo	Water	TOC	28-MAR-2006
185586-025		Treadwell & Rollo	Water	TOC	28-MAR-2006
185586-026		Treadwell & Rollo	Water	TOC	28-MAR-2006
QC335114	BLANK		Water	TOC	
QC335115	BS		Water	TOC	
QC335116	BSD		Water	TOC	

Total Organic Carbon
by Walkley-Black Method
Method Detection Limit Study

Analysis:	**Total Organic Carbon**	Analysis Date:	**6-May-05**
Method:	EPA 415.2 / SM 5310C	Batch:	101838
Matrix:	Water	Analyst:	DW

Conc. (mg/L)	0.500
1	0.6200
2	0.5500
3	0.5500
4	0.5800
5	0.6200
6	0.6300
7	0.5500
STDEVP	0.034166
Student's t-value	3.143
ML (mg/L)	**0.1074**
RL (mg/L)	0.50
Status	PASS

Note: Student-T value for 7 replicates = 3.143, for 8 replicates = 2.998

Filename: F:\inorgan\forms\tocwb_mdl.xls

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 185622

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.04.51
Location: Presidio

Sample ID	Lab ID	Sample ID	Lab ID
BHWGW01	185622-001	DAEGW101	185622-020
BHWGW05	185622-002	DAEGW102	185622-021
LF08GW02B	185622-003	DAEGW104	185622-022
LF08GW03	185622-004	DAEGW06	185622-023
LF08GW04	185622-005	1349MW01	185622-024
DUP0316064A	185622-006	1349MW03R	185622-025
LF08GW02BRB03	185622-007	1349MW100	185622-026
LF01GW02	185622-008	1349MW101	185622-027
231GW26	185622-009	LF10GW03	185622-028
231GW24	185622-010	LF10GW100	185622-029
231GW19	185622-011	LF6GW101	185622-030
231GW29	185622-012	LF6GW104	185622-031
BB3PZ101	185622-013	TB0317061A	185622-032
BB3GW100	185622-014	LF08GW01	185622-033
207GW03	185622-015	LF08GW06	185622-034
1065MW10A	185622-016	LF08GW06RB01	185622-035
LF02GW01	185622-017	LF6GW100	185622-036
EPSP01	185622-018	LF6GW103	185622-037
TB0316063A	185622-019		

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 4/7/06
Operations Manager

Signature: _____ Date: 4/13/06
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**185622**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**03/17/06**
Samples Received:	**03/17/06**

This hardcopy data package contains sample and QC results for thirty seven water samples, requested for the above referenced project on 03/17/06. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):
No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
Low responses were observed for bromomethane in the CCV analyzed 03/22/06 08:35 and the CCV analyzed 03/22/06 08:52; this analyte met minimum response criteria. High surrogate recoveries were observed for 1,2-dichloroethane-d4 in DAEGW102 (lab # 185622-021) and 1349MW03R (lab # 185622-025); no target analytes were detected in these samples. No other analytical problems were encountered.

Pesticides (EPA 8081A):
High response was observed for methoxychlor in the ICV analyzed 03/03/06 19:07; average ICV drift met method requirements, and this analyte was not detected at or above the RL in the associated samples. High responses were observed for methoxychlor in the CCV analyzed 03/24/06 22:04 and the CCV analyzed 03/27/06 19:22; average CCV drift met method requirements, and this analyte was not detected at or above the RL in the associated samples. No other analytical problems were encountered.

Polychlorinated Biphenyls (PCBs) (EPA 8082):
Low surrogate recoveries were observed for decachlorobiphenyl in many samples; the corresponding TCMX surrogate recoveries were within limits. No other analytical problems were encountered.

Polynuclear Aromatics by HPLC (EPA 8310):
No analytical problems were encountered.

Metals (EPA 6010B and EPA 6020) Water:
Low internal standard responses were observed for germanium and indium in EPSP01 (lab # 185622-018). No other analytical problems were encountered.

Metals (EPA 6010B, EPA 6020, EPA 7470A, and SM 2340B) Filtrate:
High responses were observed for silver and cadmium in the CCV analyzed

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**185622**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**03/17/06**
Samples Received:	**03/17/06**

Metals (EPA 6010B, EPA 6020, EPA 7470A, and SM 2340B) Filtrate:
04/05/06 13:28; these analytes were not detected at or above the RL in the associated samples. Low recovery was observed for aluminum in the MS of BHWGW01 (lab # 185622-001). High RPD was also observed for aluminum in the MS/MSD of BHWGW01 (lab # 185622-001); the RPD was acceptable in the BS/BSD, and this analyte was not detected at or above the RL in the associated samples. Low recoveries were observed for potassium in the MS/MSD of DAEGW101 (lab # 185622-020); the BS/BSD were within limits, and the associated RPD was within limits. Responses exceeding the instrument's linear range were observed for calcium and sodium in the MS/MSD of BHWGW01 (lab # 185622-001) and the MS/MSD of DAEGW101 (lab # 185622-020). High % differences were observed for magnesium and sodium in the serial dilution of BHWGW01 (lab # 185622-001) and the serial dilution of DAEGW101 (lab # 185622-020). No other analytical problems were encountered.

Ion Chromatography (EPA 300.0):
No analytical problems were encountered.

Total Cyanide (EPA 335.2):
No analytical problems were encountered.

Alkalinity (EPA 310.1):
No analytical problems were encountered.

Sulfide (EPA 376.2):
Low recoveries were observed for sulfide in the MS/MSD of LF6GW103 (lab # 185622-037); the LCS was within limits. No other analytical problems were encountered.

Total Dissolved Solids (TDS) (EPA 160.1):
High RPD was observed for total dissolved solids in the SDUP of LF08GW02B (lab # 185622-003). No other analytical problems were encountered.

Total Organic Carbon (TOC) (EPA 415.2):
No analytical problems were encountered.

Surfactants (MBAS) (EPA 425.1):
No analytical problems were encountered.

Chain of Custody

185622

Treadwell&Rollo

Environmental and Geotechnical Consultants

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Ph: 415.955.9040 FAX: 415.955.9041

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. 0P 2047
Page: 1 of 1

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): Blaine Tech Brian Prowd
Recorder (signature required): Brian Prowd
Sent to Laboratory (Name): Curtis & Tompkins

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

REQUESTED ANALYSES

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M)[1]	TPHfo (8015M)[1]	VOCs (8260) MTBE	General Chemistry[2]	OCPs (8081)	Metals - Dissolved[3] (23, 22, 13, 9, 8, 7, 3, Other)	Metals - dissolved[3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	PCBs (8082)	Total Sulfide (3742)	Cyanide (9012)				COMMENTS / NOTES
-1	BHWGW01	3-16	1015			X		3		1		1				X	X			X									
-2	BHWGW05		920			X		3		1		1				X	X			X									
-3	LF08GW02B		1400			X		3		1	2	5				X	X	X	X		X	X	X	X	X				
-4	LF08GW03		1515			X		3		1	2	5				X	X	X	X		X	X	X	X	X				
-5	LF08GW04		1145			X		3		1	2	5				X	X	X	X		X	X	X	X	X				
-6	DUP031606 4A		—			X		3		1	2	5				X	X	X	X		X	X	X	X	X				
-7	LF08GW02RB03		1420			X		3		1						X			X										

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY: Brian Prowd	DATE: 3/17/06	RECEIVED BY: [illegible]	DATE: 3/17/06
PRINT NAME: Brian Prowd FIRM: Blaine Tech	TIME: 1230	PRINT NAME: AARON GRENIER FIRM: CFT	TIME: 1230
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

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185622

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. 0P 2048
Page: 1 of 1

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTS / D. Raynal
Recorder (signature required): D-R
Sent to Laboratory (Name): CET

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) MTBE	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	Total Sulfide	TOC	Cyanide	Metals Dissolved			COMMENTS / NOTES
-8	LF01GW02	3/16/06	1610			X		6	0	1	1	1					X		X		X				X	X			
-9	231GW26	3/16/06	1410			X		6	2	1	1	2	X	X	X	X	X		X		X		X	X					
-10	231GW24	3/16/06	1220			X		6	2	1	1	2	X	X	X	X	X		X		X		X	X					
-11	231GW19		1055			X		6	2	1	1	2	X	X	X	X	X		X		X		X	X					
-12	231GW29		1010			X		6	2	1	1	2	X	X	X	X	X		X		X		X	X					

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY: D-R	DATE: 3/16/06	RECEIVED BY: [signature]	DATE: 3/17/06
PRINT NAME: Devin Raynal FIRM: Dynamic Tech	TIME: 1230	PRINT NAME: Lara Greiner FIRM: CET	TIME: 1230
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

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185622

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2049
Page: ___ of ___

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTS John DeSong
Recorder (signature required):
Sent to Laboratory (Name):

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) MTBE	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other)	Metals - ~~Total~~ dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other) (15)	TDS (160.1)	PAHs (8310)	BTEX, MTBE (8260)	Total Sulfide (376.2)	Total organic Carbon (9060)	Metals - dissolved (14)	Cyanide (9012)	Total Metals (22)	COMMENTS / NOTES
-13	BB3PZ101	3/16/06	1030					3		1		2	X	X	X		X		X		X								
-14	BB3GW100		1115					3		1		2	X	X	X		X		X		X								
-15	207GW03		1350					6	2	1		3	X	X	X	X	X				X			X	X	X			
-16	1065MW10A		1450					3		1		3	X	X	X		X			X	X		X	X					
-17	LF02GW01		1540							1	1	2					X		X		X						X		
N/A	~~[illegible]~~																												
-18	EPS001		1610							2	2	1	·			·	X		X		X						X	X	
-19	TB031606 3A							2								X													

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY:	DATE: 3/17/06	RECEIVED BY:	DATE: 3/17/06
PRINT NAME: FIRM:	TIME: 1230	PRINT NAME: AARON GREINER FIRM: CH	TIME: 1230
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

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CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. 0P 2050
Page: ___ of ___

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTS / P. Cornish
Recorder (signature required): Pat Wu
Sent to Laboratory (Name): C&T

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Water	Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) MTBE	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	MBAS	Metals Diss (22)	Total Hardness	Molybdenum	Organochlorine Pesticides	PCBs	COMMENTS / NOTES
20	DAEGW10	3/16/06	1030			X		6		1		7	X	X	X	X	X		X		X	X	X	X	X	X	X	X	
21	DAEGW02		1220			X		6		1		7	X	X	X	X	X		X		X	X	X		X	X	X	X	
22	DAEGW04		1118			X		6		1		7	X	X	X	X	X		X		X	X	X		X	X	X	X	
23	DAEGW06		912			X		6		1		6		X	X	X	X		X		X	X		X					* only 8 containers
24	1349MW01		1352			X		6		1		6	X	X	X	X	X		X		X	X					X		
25	1349MW03R		1448			X		6		1		6	X	X	X	X	X		X		X	X					X	X	
26	1349MW10D		1615			X		6		1		6	X	X	X	X	X		X		X	X					X	X	
27	1349MW101		1540			X		6		1		6	X	X	X	X	X		X		X	X					X	X	

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY: Pat Wu	DATE: 3/17/06	RECEIVED BY: Aaron Grenier	DATE: 3/17/06
PRINT NAME:	FIRM:	PRINT NAME: AARON GRENIER	FIRM: C+T
	TIME: 1230		TIME: 1230
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME:	FIRM:	PRINT NAME:	FIRM:
	TIME:		TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

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CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2051
Page: ___ of ___

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BF, John Dogony, P. Cornish
Recorder (signature required): [signature] CTT
Sent to Laboratory (Name):

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH + ZnAc	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260)	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	BTEX/MTBE	TOC	PCBs	Total Sulfide			COMMENTS / NOTES
-28	LF10GW03	3/17/06	1020			X		3			1	1					X		X		X		X						
-29	LF10GW100		0940			X		3			1	2	X	X	X		X		X		X		X						
-30	LF6GW101		0928			X		3	2		1	6	X	X			X	X	X		X	X		X	X	X			
-31	LF6GW104		1030			X			2		1	4		X	X		X		X		X	X		X		X			
-32	TB03170061A		1110			X		2								X													

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested: Metals Lists (23** - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (Other -)

RELINQUISHED BY: [signature]	DATE: 3/17/06	RECEIVED BY: [signature]	DATE: 3/17/06
PRINT NAME:	FIRM: TIME: 1230	PRINT NAME: AARON GRENIER	FIRM: CTT TIME: 1230
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME:	FIRM: TIME:	PRINT NAME:	FIRM: TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

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Treadwell&Rollo

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Ph: 415.955.9040 FAX: 415.955.9041

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2052
Page: 1 of 1

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): Blaine Tech Brian Prowl
Recorder (signature required):
Sent to Laboratory (Name): Curtis & Tompkins

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Water	Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) MTBE	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (22, 13, 9, 8, 7, 3, Other)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	PCBs (8082)	Diesel Solids (376.2)	Cyanide (9012)				COMMENTS / NOTES
-33	LF08GW01	3-17	1015			X		3		1	2	5				X	X	X	X		X	X	X	X	X				
-34	LF08GW06	↓	855			X		3		1	2	5				X	X	X	X		X	X	X	X	X				
-35	LF08GW06RB01	↓	915			X		3		1	2	5				X	X	X	X		X	X	X	X	X				
													•			•													

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY: Brian Prowl	DATE: 3/17/06	RECEIVED BY: Aaron Grenier	DATE: 3/17/06
PRINT NAME: Brian Prowl FIRM: Blaine Tech	TIME: 1230	PRINT NAME: AARON GRENIER FIRM: CET	TIME: 1230
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

White Copy - Original **Yellow Copy** - Laboratory **Pink Copy** - Field

Treadwell&Rollo
Environmental and Geotechnical Consultants
555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

185622

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2053
Page: 1 of 1

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTS / D. Raynal
Recorder (signature required): D. Raynal
Sent to Laboratory (Name): CTI

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

REQUESTED ANALYSES

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260)	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	TOC	PCBs	Total Sulfide				COMMENTS / NOTES
36	LF6GW100	3/17/06	940			X		3	2	1	1	6	X	X			X	X	X		X	X	X	X	X				
37	LF6GW103	↓	1055			X		3	2	1	1	6	X	X			X	X	X		X	X	X	X	X				
													•			•													

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists (23** - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (**13** - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (**9** - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (**8** - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (**7** - As, Cr, Cd, Cu, Pb, Ni and Zn) (**3** - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY: D. Raynal	DATE: 3/17/06	RECEIVED BY: [signature]	DATE: 3/17/06
PRINT NAME: Devin Raynal FIRM: Blaine Tech	TIME: 1230	PRINT NAME: AARON GROWLEK FIRM: CTI	TIME: 1230
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

White Copy - Original **Yellow Copy** - Laboratory **Pink Copy** - Field

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 185622 Date Received: 3-17-06 Number of Coolers: 10
Client: Treadwell & Rollo Project: Presidio

A. Preliminary Examination Phase
Date Opened: 3-17-06 By (print): Troy Windsor (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.)?..... YES (NO)
   If YES, enter carrier name and airbill number:
2. Were custody seals on outside of cooler?..... (YES) NO
   How many and where? 1 per over cooler lip Seal date: 3-17-06 Seal name: PC & Illegible
3. Were custody seals unbroken and intact at the date and time of arrival?..... (YES) NO
4. Were custody papers dry and intact when received?..... (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)?..... (YES) NO
6. Did you sign the custody papers in the appropriate place?..... (YES) NO
7. Was project identifiable from custody papers?..... (YES) NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: Wet Temperature: cold 3.1 2.7 2.4 2.8 4.3 3.2 3.5 2.8 3.3

B. Login Phase
Date Logged In: 3-17-06 By (print): Troy Windsor (sign) [signature]

1. Describe type of packing in cooler: in ziploc type bags
2. Did all bottles arrive unbroken?..... (YES) NO *
3. Were labels in good condition and complete (ID, date, time, signature, etc.)?... (YES) NO
4. Did bottle labels agree with custody papers?..... (YES) NO
5. Were appropriate containers used for the tests indicated?..... (YES) NO
6. Were correct preservatives added to samples?..... (YES) NO
7. Was sufficient amount of sample sent for tests indicated?..... (YES) NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below..... (YES) NO
9. Was the client contacted concerning this sample delivery?..... YES NO
   If YES, give details below.
   Who was called? By whom? Date:

Additional Comments:
A8 – One cooler without temp blank and one cooler with two.
B2 – Sample -026 one vga was broken in log in.

TOTAL VOLATILE HYDROCARBONS/

BTXE

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	231GW26	Batch#:	111453
Lab ID:	185622-009	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/20/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	109	65-135
Bromofluorobenzene (FID)	109	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	231GW24	Batch#:	111453
Lab ID:	185622-010	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/20/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	107	65-135
Bromofluorobenzene (FID)	111	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	231GW19	Batch#:	111453
Lab ID:	185622-011	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/20/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	107	65-135
Bromofluorobenzene (FID)	109	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	231GW29	Batch#:	111453
Lab ID:	185622-012	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/20/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	106	65-135
Bromofluorobenzene (FID)	105	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

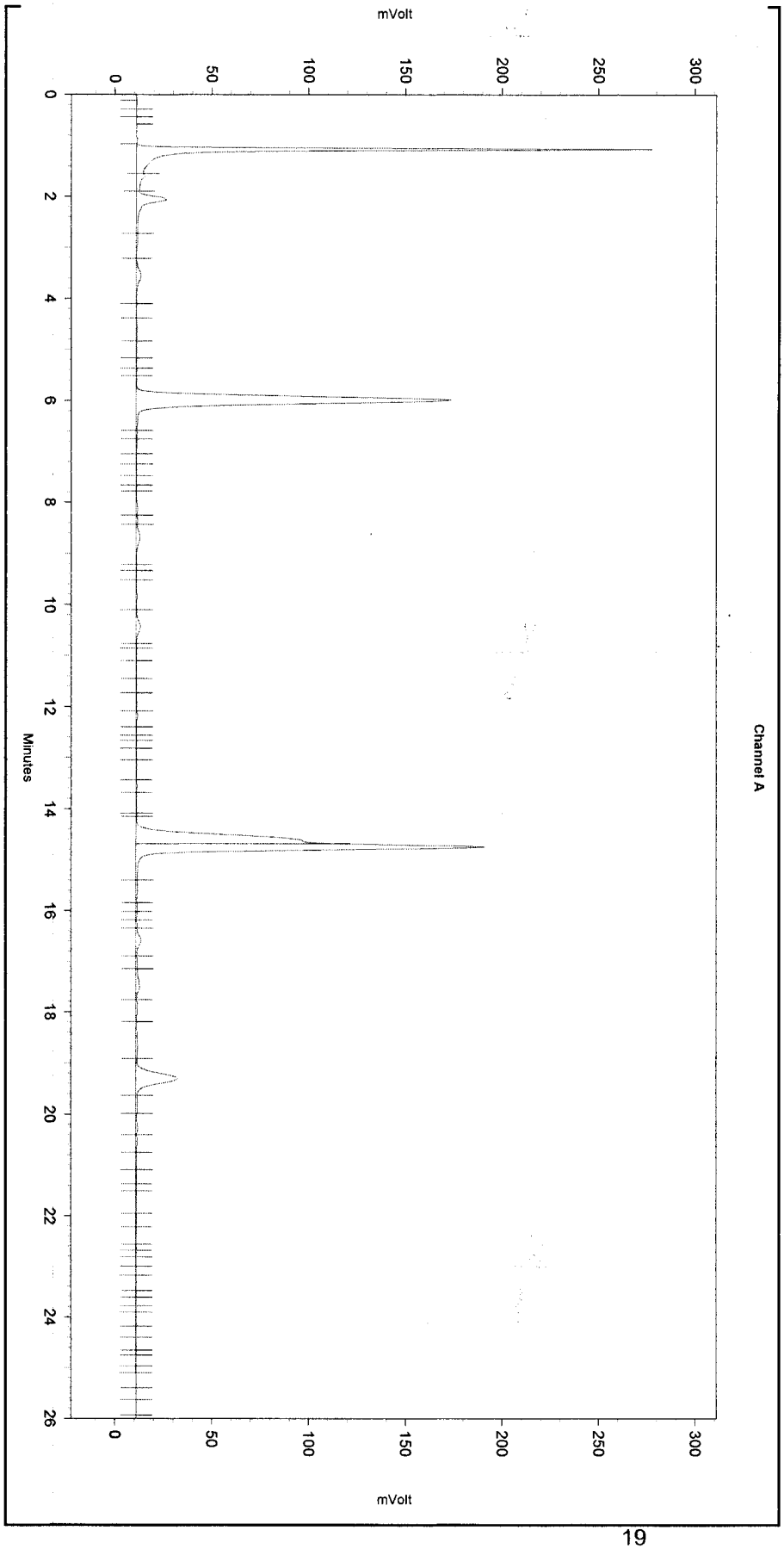
Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	BB3PZ101	Batch#:	111453
Lab ID:	185622-013	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/20/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	78 Y Z	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	106	65-135
Bromofluorobenzene (FID)	130	65-135

Y= Sample exhibits chromatographic pattern which does not resemble standard
Z= Sample exhibits unknown single peak or peaks
RL= Reporting Limit

Sample Name: **185622-013,111453,tvh** Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\079_018** Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\079.seq** Instrument: GC04 Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe073.met	Software Version 3.1.7 Run Date: 3/20/2006 8:43:08 PM Analysis Date: 3/21/2006 12:25:02 PM Sample Amount: 5



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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.822	0	0

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\079_018

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	14.676	0	0

BB3PZ101

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	BB3GW100	Batch#:	111453
Lab ID:	185622-014	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/20/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	100	65-135
Bromofluorobenzene (FID)	117	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	207GW03	Batch#:	111453
Lab ID:	185622-015	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/20/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	107	65-135
Bromofluorobenzene (FID)	110	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1065MW10A	Batch#:	111453
Lab ID:	185622-016	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/20/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	105	65-135	EPA 8015B
Bromofluorobenzene (FID)	103	65-135	EPA 8015B
Trifluorotoluene (PID)	93	65-135	EPA 8021B
Bromofluorobenzene (PID)	93	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	DAEGW101	Batch#:	111453
Lab ID:	185622-020	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/20/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	107	65-135
Bromofluorobenzene (FID)	111	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	DAEGW102	Batch#:	111453
Lab ID:	185622-021	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/20/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	109	65-135
Bromofluorobenzene (FID)	115	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	DAEGW104	Batch#:	111453
Lab ID:	185622-022	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/20/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	108	65-135
Bromofluorobenzene (FID)	114	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1349MW01	Batch#:	111453
Lab ID:	185622-024	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	106	65-135
Bromofluorobenzene (FID)	111	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1349MW03R	Batch#:	111453
Lab ID:	185622-025	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	107	65-135
Bromofluorobenzene (FID)	111	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

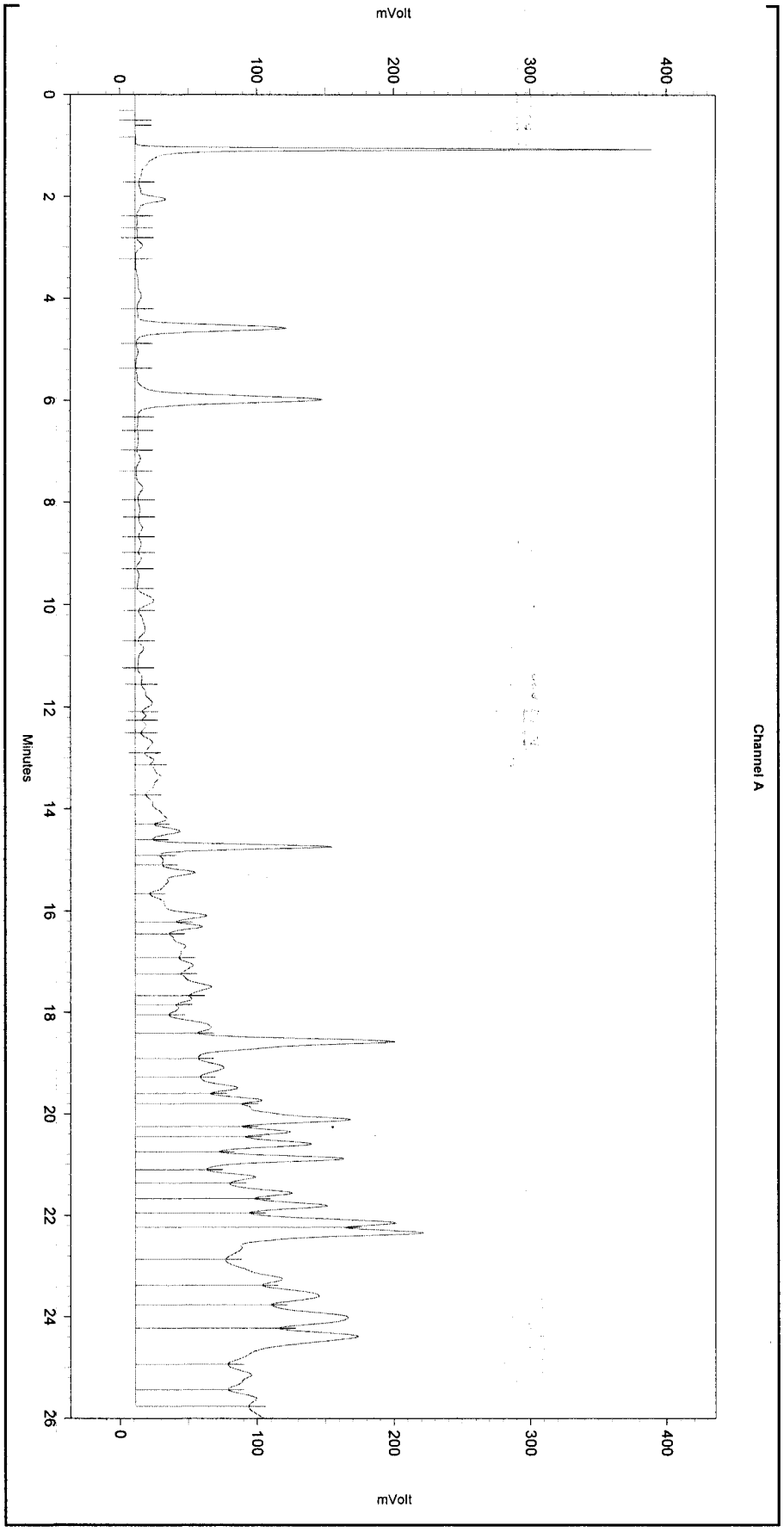
Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1349MW100	Batch#:	111453
Lab ID:	185622-026	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	1,300 H Y	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	98	65-135
Bromofluorobenzene (FID)	111	65-135

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
RL= Reporting Limit

Sample Name: **185622-026,111453,tvh** Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\079_028** Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\079.seq** Instrument: GC04 Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe073.met	Software Version 3.1.7 Run Date: 3/21/2006 2:43:14 AM Analysis Date: 3/21/2006 12:15:27 PM Sample Amount: 5



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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.822	0	0

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\079_028

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0

1349 MW100

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1349MW101	Batch#:	111453
Lab ID:	185622-027	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	107	65-135
Bromofluorobenzene (FID)	109	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8021B
Field ID:	LF10GW03	Batch#:	111453
Lab ID:	185622-028	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/20/06
Diln Fac:	1.000		

Analyte	Result	RL
MTBE	2.4	2.0
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
Xylene (total)	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (PID)	85	65-135
Bromofluorobenzene (PID)	85	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	LF10GW100	Batch#:	111453
Lab ID:	185622-029	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/20/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	2.1	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	105	65-135	EPA 8015B
Bromofluorobenzene (FID)	107	65-135	EPA 8015B
Trifluorotoluene (PID)	92	65-135	EPA 8021B
Bromofluorobenzene (PID)	95	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	LF6GW101	Batch#:	111453
Lab ID:	185622-030	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	105	65-135
Bromofluorobenzene (FID)	107	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	LF6GW100	Batch#:	111453
Lab ID:	185622-036	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	65-135
Bromofluorobenzene (FID)	103	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	LF6GW103	Batch#:	111453
Lab ID:	185622-037	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	105	65-135
Bromofluorobenzene (FID)	107	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332120	Batch#:	111453
Matrix:	Water	Analyzed:	03/20/06
Units:	ug/L		

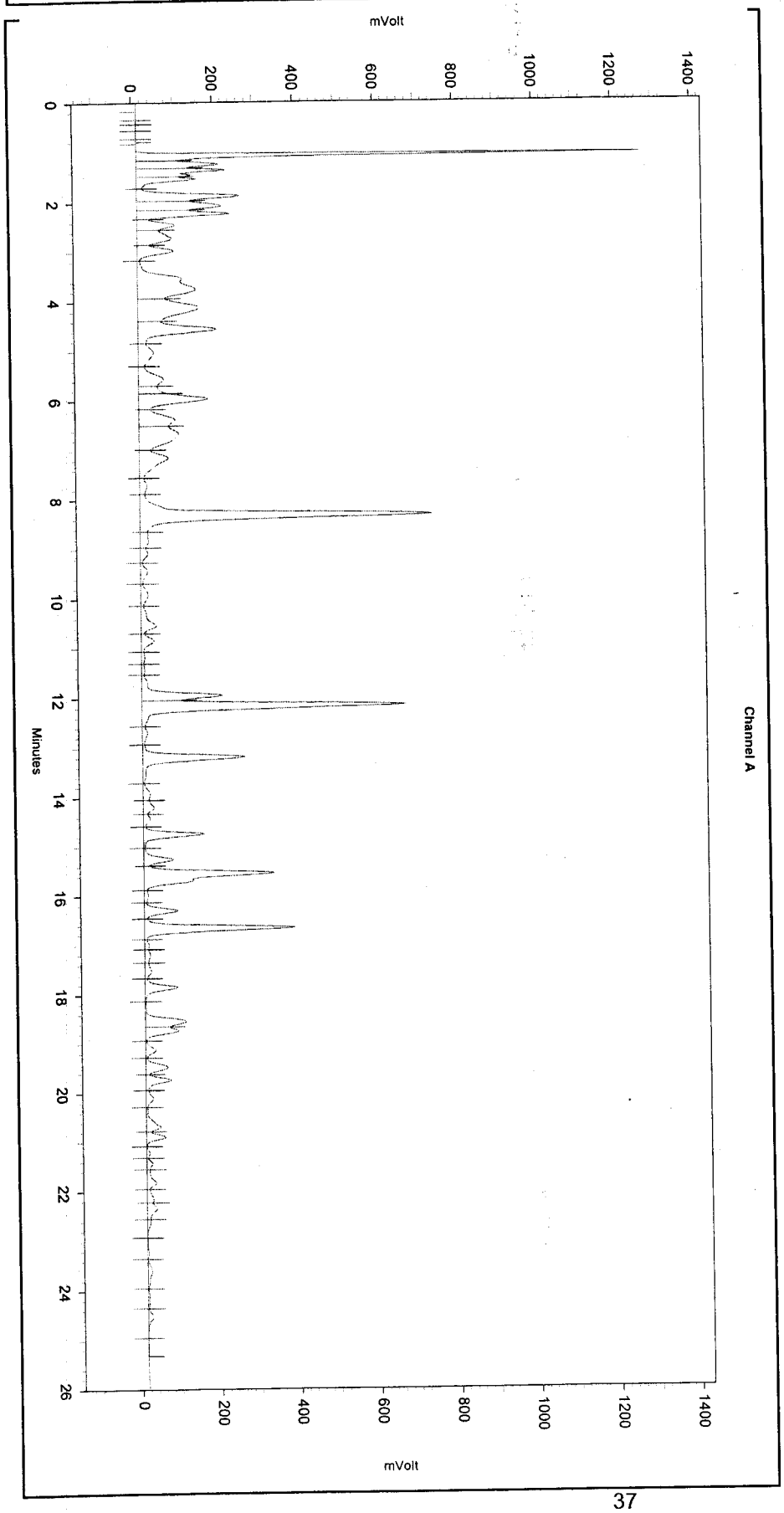
Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	105	65-135	EPA 8015B
Bromofluorobenzene (FID)	102	65-135	EPA 8015B
Trifluorotoluene (PID)	94	65-135	EPA 8021B
Bromofluorobenzene (PID)	92	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Sample Name: **ccv/lcs,qc332122,111453,s2869,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\079_003**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\079.seq**
Instrument: GC04 Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe073.met

Software Version 3.1.7
Run Date: 3/20/2006 11:08:20 AM
Analysis Date: 3/21/2006 11:51:18 AM
Sample Amount: 5



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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.822	0	0

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\079_003

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.849	0	0

Gasoline

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8021B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC332121	Batch#:	111453
Matrix:	Water	Analyzed:	03/20/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
MTBE	20.00	18.79	94	65-135
Benzene	20.00	18.48	92	65-135
Toluene	20.00	18.13	91	65-135
Ethylbenzene	20.00	20.09	100	65-135

Surrogate	%REC	Limits
Trifluorotoluene (PID)	96	65-135
Bromofluorobenzene (PID)	98	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC332122	Batch#:	111453
Matrix:	Water	Analyzed:	03/20/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	1,896	95	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	122	65-135
Bromofluorobenzene (FID)	111	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	231GW26	Batch#:	111453
MSS Lab ID:	185622-009	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/20/06
Diln Fac:	1.000		

Type: MS Lab ID: QC332189

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	16.88	2,000	1,900	94	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	131	65-135
Bromofluorobenzene (FID)	119	65-135

Type: MSD Lab ID: QC332190

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,906	94	65-135	0	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	133	65-135
Bromofluorobenzene (FID)	118	65-135

RPD= Relative Percent Difference

Confirmation Report for 185622 MBTXE Water
Curtis & Tompkins Laboratories

Units: ug/L

Lab ID	Client ID	Analyte	Result	Confirmation	RPD	%D
185622-028	LF10GW03	MTBE	2.392	2.403	0	0
185622-029	LF10GW100	MTBE	2.112	2.073	2	-2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185622 GCVOA Water: EPA 8015B

Inst : GC04
Calnum : 306105768001
Units : ng

Name : GAS
Date : 14-MAR-2006 12:00
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	073_003	306105768003	tvh 1	14-MAR-2006 12:00	S2395 (1000X), S2543 (5000X)
L2	073_004	306105768004	tvh 2	14-MAR-2006 12:36	S2396 (1000X), S2543 (5000X)
L3	073_005	306105768005	tvh 3	14-MAR-2006 13:12	S2397 (1000X), S2543 (5000X)
L4	073_006	306105768006	tvh 4	14-MAR-2006 13:48	S2399 (2000X), S2543 (5000X)
L5	073_007	306105768007	tvh 5	14-MAR-2006 14:24	S2399 (1000X), S2543 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	5030.6	4195.1	4359.4	4377.7	4108.0	AVRG		2.27E-4	.	4414.2	8	0.995	20	

42

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185622 GCVOA Water
EPA 8015B

Inst : GC04 Name : GAS
Calnum : 306105768001 Cal Date: 14-MAR-2006

ICV 306105768009 (073_009 14-MAR-2006) stds: S2557 (1000X), S2543 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	A	10000	10360	ng	4	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185622 GCVOA Water: EPA 8021B

Inst : GC04
Calnum : 306105768002
Units : ng

Name : MBTXE
Date : 14-MAR-2006 17:39
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	073_012	306105768012	btxe 1	14-MAR-2006 17:39	S2850 (1000X), S2543 (5000X)
L2	073_013	306105768013	mtbe 1	14-MAR-2006 18:15	S2849 (1250X), S2543 (5000X)
L3	073_014	306105768014	mbtxe 2	14-MAR-2006 18:51	S2849 (500X), S2543 (5000X)
L4	073_015	306105768015	mbtxe 3	14-MAR-2006 19:27	S2849 (125X), S2543 (5000X)
L5	073_016	306105768016	mbtxe 4	14-MAR-2006 20:03	S2848 (1000X), S2543 (5000X)
L6	073_017	306105768017	mbtxe 5	14-MAR-2006 20:39	S2848 (500X), S2543 (5000X)
L7	073_018	306105768018	mbtxe 6	14-MAR-2006 21:15	S2848 (250X), S2543 (5000X)
L8	073_019	306105768019	mtbe 7	14-MAR-2006 21:51	S2847 (500X), S2543 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
MTBE	B		1934.5	2577.9	2582.3	2205.2	2150.8	2095.3	2023.7	AVRG		4.50E-4		2224.3	12	0.995	20	
Benzene	B	7327.2		5598.8	5509.2	5550.2	5330.4	5225.0		AVRG		1.74E-4		5756.8	14	0.995	20	
Toluene	B	7568.8		5807.2	5203.4	5066.9	4864.0	4760.8		AVRG		1.80E-4		5545.2	19	0.995	20	
Ethylbenzene	B	3687.2		4461.6	4339.8	4410.9	4249.1	4164.6		AVRG		2.37E-4		4218.9	7	0.995	20	
m,p-Xylenes	B	6620.4		6378.5	5847.0	5907.2	5666.3	5568.8		AVRG		1.67E-4		5998.0	7	0.995	20	
o-Xylene	B	5955.6		4732.8	4472.9	4419.9	4247.0	4163.4		AVRG		2.14E-4		4665.3	14	0.995	20	
MTBE	C		610.80	724.16	851.65	886.42	914.72	899.08	844.07	AVRG		0.00122		818.70	14	0.995	20	
Benzene	C	1292.8		1930.8	2189.9	2389.1	2313.5	2192.9		AVRG		4.87E-4		2051.5	20	0.995	20	
Toluene	C	1487.2		1849.8	2046.8	2209.7	2147.9	2057.5		AVRG		5.09E-4		1966.5	13	0.995	20	
Ethylbenzene	C	1140.4		1621.7	1840.6	1976.4	1922.1	1842.5		AVRG		5.80E-4		1723.9	18	0.995	20	
m,p-Xylenes	C	1956.0		2273.6	2515.6	2638.8	2550.7	2436.8		AVRG		4.17E-4		2395.3	10	0.995	20	
o-Xylene	C	1142.0		1665.8	1888.9	2020.6	1969.3	1872.3		AVRG		5.68E-4		1759.8	19	0.995	20	

44

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

306105768002

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185622 GCVOA Water
EPA 8021B

Inst : GC04 Name : MBTXE
Calnum : 306105768002 Cal Date: 14-MAR-2006

ICV 306105768022 (073_022 14-MAR-2006) stds: S2157 (1000X), S2543 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
MTBE	B	100.0	88.85	ng	-11	15	
Benzene	B	100.0	101.5	ng	2	15	
Toluene	B	100.0	98.54	ng	-1	15	
Ethylbenzene	B	100.0	107.2	ng	7	15	
m,p-Xylenes	B	200.0	181.6	ng	-9	15	
o-Xylene	B	100.0	96.81	ng	-3	15	
MTBE	C	100.0	71.73	ng	**-28**	15	
Benzene	C	100.0	113.2	ng	13	15	
Toluene	C	100.0	111.0	ng	11	15	
Ethylbenzene	C	100.0	111.5	ng	12	15	
m,p-Xylenes	C	200.0	201.0	ng	0	15	
o-Xylene	C	100.0	110.5	ng	10	15	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185622 GCVOA Water: EPA 8015B / EPA 8021B

Inst : GC04
Calnum : 306105768003
Units : ng

Name : TFT/BFB
Date : 15-MAR-2006 13:55
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	073_025	306105768025	tft/bfb 1	15-MAR-2006 13:55	S2572 (5000X)
L2	073_026	306105768026	tft/bfb 2	15-MAR-2006 14:53	S2573 (5000X)
L3	073_027	306105768027	tft/bfb 3	15-MAR-2006 15:31	S2574 (5000X)
L4	073_028	306105768028	tft/bfb 4	15-MAR-2006 16:07	S2575 (5000X)
L5	073_029	306105768029	tft/bfb 5	15-MAR-2006 16:47	S2576 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	3571.5	2906.2	3785.3	3617.0	3585.5	AVRG		2.86E-4		3493.1	10	0.995	20	
Bromofluorobenzene (FID)	A	2332.7	1945.0	2539.6	2355.1	2421.4	AVRG		4.31E-4		2318.8	10	0.995	20	
Trifluorotoluene (PID)	B	1322.5	1069.7	1375.0	1309.5	1290.5	AVRG		7.85E-4		1273.4	9	0.995	20	
Bromofluorobenzene (PID)	B	2762.2	2325.6	3024.1	2841.8	2911.4	AVRG		3.61E-4		2773.0	10	0.995	20	
Trifluorotoluene (PID)	C	430.71	366.77	529.21	540.88	560.01	AVRG		0.00206		485.52	17	0.995	20	
Bromofluorobenzene (PID)	C	945.31	810.87	1202.8	1182.8	1254.0	AVRG		9.27E-4		1079.2	18	0.995	20	

46

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS SPIKE USER REPORT FOR 185622 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC04 Run Name: QC332121 IDF : 1.0
Seqnum : 306114356002.1 File : 079_002 Time : 20-MAR-2006 10:32
Standards: S2650 (1000X), S2543 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
MTBE	B	306105768002	14-MAR-2006	2089.6	100.0	94	ng	-6	15	
MTBE	C	306105768002	14-MAR-2006	770.45	100.0	94	ng	-6	15	v-
Benzene	B	306105768002	14-MAR-2006	5318.7	100.0	92	ng	-8	15	
Benzene	C	306105768002	14-MAR-2006	2296.5	100.0	110	ng	12	15	
Toluene	B	306105768002	14-MAR-2006	5026.3	100.0	91	ng	-9	15	
Toluene	C	306105768002	14-MAR-2006	2210.4	100.0	110	ng	12	15	
Ethylbenzene	B	306105768002	14-MAR-2006	4238.7	100.0	100	ng	0	15	
Ethylbenzene	C	306105768002	14-MAR-2006	1957.3	100.0	110	ng	14	15	
m,p-Xylenes	B	306105768002	14-MAR-2006	5238.3	100.0	87	ng	-13	15	
m,p-Xylenes	C	306105768002	14-MAR-2006	2431.8	100.0	100	ng	2	15	
o-Xylene	B	306105768002	14-MAR-2006	4399.5	100.0	94	ng	-6	15	
o-Xylene	C	306105768002	14-MAR-2006	2039.9	100.0	120	ng	**16**	15	c+ *** confirm only
Trifluorotoluene (FID)	A	306105768003	15-MAR-2006	3773.9	450.0	490	ng	8	15	
Bromofluorobenzene (FID)	A	306105768003	15-MAR-2006	2506.5	450.0	490	ng	8	15	
Trifluorotoluene (PID)	B	306105768003	15-MAR-2006	1221.2	450.0	430	ng	-4	15	
Trifluorotoluene (PID)	C	306105768003	15-MAR-2006	560.05	450.0	520	ng	15	15	
Bromofluorobenzene (PID)	B	306105768003	15-MAR-2006	2708.6	450.0	440	ng	-2	15	
Bromofluorobenzene (PID)	C	306105768003	15-MAR-2006	1280.2	450.0	530	ng	**19**	15	c+

mm 3/29/06

+=high bias -=low bias c=CCV v=ICV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 185622 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC04 Run Name: QC332122 IDF : 1.0
Seqnum : 306114356003.1 File : 079_003 Time : 20-MAR-2006 11:08
Standards: S2869 (1000X), S2543 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	306105768001	14-MAR-2006	4185.2	10000	9500	ng	-5	15	
Trifluorotoluene (FID)	A	306105768003	15-MAR-2006	4277.4	450.0	550	ng	**22**	15	c+ ok
Bromofluorobenzene (FID)	A	306105768003	15-MAR-2006	2580.0	450.0	500	ng	11	15	
Trifluorotoluene (PID)	B	306105768003	15-MAR-2006	1396.2	450.0	490	ng	10	15	
Trifluorotoluene (PID)	C	306105768003	15-MAR-2006	827.22	450.0	770	ng	**70**	15	c+
Bromofluorobenzene (PID)	B	306105768003	15-MAR-2006	2572.3	450.0	420	ng	-7	15	
Bromofluorobenzene (PID)	C	306105768003	15-MAR-2006	1405.5	450.0	590	ng	**30**	15	c+

NA

IN-House QC Limits

TFT-FID-W
69-137 %Rec

max 3 halo

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185622 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC04 Run Name: mbtxe IDF : 1.0
Seqnum : 306114356012 File : 079_012 Time : 20-MAR-2006 17:06
Standards: S2915 (666.7X), S2543 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Trifluorotoluene (FID)	A	306105768003	15-MAR-2006	3702.5	450.0	477.0	ng	6	15	
Bromofluorobenzene (FID)	A	306105768003	15-MAR-2006	2430.9	450.0	471.8	ng	5	15	
MTBE	B	306105768002	14-MAR-2006	1987.9	150.0	134.1	ng	-11	15	
Benzene	B	306105768002	14-MAR-2006	5258.8	150.0	137.0	ng	-9	15	
Toluene	B	306105768002	14-MAR-2006	4942.1	150.0	133.7	ng	-11	15	
Ethylbenzene	B	306105768002	14-MAR-2006	4191.2	150.0	149.0	ng	-1	15	
m,p-Xylenes	B	306105768002	14-MAR-2006	5272.6	150.0	131.9	ng	-12	15	
o-Xylene	B	306105768002	14-MAR-2006	4354.9	150.0	140.0	ng	-7	15	
Trifluorotoluene (PID)	B	306105768003	15-MAR-2006	1226.6	450.0	433.5	ng	-4	15	
Bromofluorobenzene (PID)	B	306105768003	15-MAR-2006	2666.5	450.0	432.7	ng	-4	15	
MTBE	C	306105768002	14-MAR-2006	850.95	150.0	155.9	ng	4	15	
Benzene	C	306105768002	14-MAR-2006	2616.4	150.0	191.3	ng	**28**	15	c+ ***
Toluene	C	306105768002	14-MAR-2006	2461.3	150.0	187.7	ng	**25**	15	c+ ***
Ethylbenzene	C	306105768002	14-MAR-2006	2161.3	150.0	188.1	ng	**25**	15	c+ ***
m,p-Xylenes	C	306105768002	14-MAR-2006	2652.1	150.0	166.1	ng	11	15	
o-Xylene	C	306105768002	14-MAR-2006	2195.1	150.0	187.1	ng	**25**	15	c+ ***
Trifluorotoluene (PID)	C	306105768003	15-MAR-2006	606.31	450.0	562.0	ng	**25**	15	c+
Bromofluorobenzene (PID)	C	306105768003	15-MAR-2006	1358.6	450.0	566.5	ng	**26**	15	c+

confirm only

mcw 3/29/06

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185622 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC04 Run Name: tvh IDF : 1.0
Seqnum : 306114356014 File : 079_014 Time : 20-MAR-2006 18:18
Standards: S2869 (666.7X), S2543 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	306105768001	14-MAR-2006	4094.1	15000	13910	ng	-7	15	
Trifluorotoluene (FID)	A	306105768003	15-MAR-2006	4660.7	450.0	600.4	ng	**33**	15	c+ OK
Bromofluorobenzene (FID)	A	306105768003	15-MAR-2006	2796.1	450.0	542.6	ng	**21**	15	c+
Trifluorotoluene (PID)	B	306105768003	15-MAR-2006	1551.9	450.0	548.4	ng	**22**	15	c+ NA
Bromofluorobenzene (PID)	B	306105768003	15-MAR-2006	2762.3	450.0	448.3	ng	0	15	
Trifluorotoluene (PID)	C	306105768003	15-MAR-2006	994.69	450.0	921.9	ng	**105**	15	c+
Bromofluorobenzene (PID)	C	306105768003	15-MAR-2006	1531.7	450.0	638.7	ng	**42**	15	c+

IN-House QC Limits:
BFB-FID-H_2O:
80-133 % Rec.

mm 3/25/06

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185622 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC04 Run Name: tvh IDF : 1.0
Seqnum : 306114356015 File : 079_015 Time : 20-MAR-2006 18:55
Standards: S2869 (666.7X), S2543 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	306105768001	14-MAR-2006	4054.2	15000	13780	ng	-8	15	
Trifluorotoluene (FID)	A	306105768003	15-MAR-2006	4625.6	450.0	595.9	ng	**32**	15	c+
Bromofluorobenzene (FID)	A	306105768003	15-MAR-2006	2738.2	450.0	531.4	ng	**18**	15	c+
Trifluorotoluene (PID)	B	306105768003	15-MAR-2006	1525.5	450.0	539.1	ng	**20**	15	c+
Bromofluorobenzene (PID)	B	306105768003	15-MAR-2006	2669.1	450.0	433.1	ng	-4	15	
Trifluorotoluene (PID)	C	306105768003	15-MAR-2006	945.77	450.0	876.6	ng	**95**	15	c+
Bromofluorobenzene (PID)	C	306105768003	15-MAR-2006	1487.5	450.0	620.3	ng	**38**	15	c+

ok

NA

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+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185622 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC04 Run Name: tvh IDF : 1.0
Seqnum : 306114356026 File : 079_026 Time : 21-MAR-2006 01:31
Standards: S2869 (1000X), S2543 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	306105768001	14-MAR-2006	4092.8	10000	9272	ng	-7	15	
Trifluorotoluene (FID)	A	306105768003	15-MAR-2006	4187.0	450.0	539.4	ng	**20**	15	c+ ok
Bromofluorobenzene (FID)	A	306105768003	15-MAR-2006	2466.9	450.0	478.7	ng	6	15	
Trifluorotoluene (PID)	B	306105768003	15-MAR-2006	1312.8	450.0	463.9	ng	3	15	
Bromofluorobenzene (PID)	B	306105768003	15-MAR-2006	2433.6	450.0	394.9	ng	-12	15	
Trifluorotoluene (PID)	C	306105768003	15-MAR-2006	785.68	450.0	728.2	ng	**62**	15	c+ NA
Bromofluorobenzene (PID)	C	306105768003	15-MAR-2006	1337.2	450.0	557.6	ng	**24**	15	c+

Area Shift

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185622 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC04 Run Name: tvh IDF : 1.0
Seqnum : 306114356027 File : 079_027 Time : 21-MAR-2006 02:07
Standards: S2869 (1000X), S2543 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	306105768001	14-MAR-2006	4117.8	10000	9329	ng	-7	15	
Trifluorotoluene (FID)	A	306105768003	15-MAR-2006	4484.1	450.0	577.7	ng	**28**	15	c+ OK
Bromofluorobenzene (FID)	A	306105768003	15-MAR-2006	2651.6	450.0	514.6	ng	14	15	
Trifluorotoluene (PID)	B	306105768003	15-MAR-2006	1401.3	450.0	495.2	ng	10	15	
Bromofluorobenzene (PID)	B	306105768003	15-MAR-2006	2671.7	450.0	433.6	ng	-4	15	
Trifluorotoluene (PID)	C	306105768003	15-MAR-2006	863.77	450.0	800.6	ng	**78**	15	c+ NA
Bromofluorobenzene (PID)	C	306105768003	15-MAR-2006	1475.1	450.0	615.1	ng	**37**	15	c+

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+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185622 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC04 Run Name: tvh IDF : 1.0
Seqnum : 306114356033 File : 079_033 Time : 21-MAR-2006 05:43
Standards: S2869 (2000X), S2543 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	A	306105768001	14-MAR-2006	3963.7	5000	4490	ng	-10	15	
Trifluorotoluene (FID)	A	306105768003	15-MAR-2006	4058.7	450.0	522.9	ng	**16**	15	c+ ok
Bromofluorobenzene (FID)	A	306105768003	15-MAR-2006	2258.7	450.0	438.3	ng	-3	15	
Trifluorotoluene (PID)	B	306105768003	15-MAR-2006	1154.2	450.0	407.8	ng	-9	15	
Bromofluorobenzene (PID)	B	306105768003	15-MAR-2006	2345.3	450.0	380.6	ng	-15	15	
Trifluorotoluene (PID)	C	306105768003	15-MAR-2006	657.52	450.0	609.4	ng	**35**	15	c+ NA
Bromofluorobenzene (PID)	C	306105768003	15-MAR-2006	1243.8	450.0	518.6	ng	15	15	

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+=high bias c=CCV

PROJECT GC04 Sequence Log Book

Notebook No. BK 2175

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 306105768 Instrument: GC04
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #4 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 14-MAR-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	073_001	X	ib			14-MAR-2006 10:48	1.0					1	
002	073_002	X	Ical			14-MAR-2006 11:24	1.0					2 1	
003	073_003	ICAL	tvh 1			14-MAR-2006 12:00	1.0					2 1 PASS/USE	
004	073_004	ICAL	tvh 2			14-MAR-2006 12:36	1.0					3 1	
005	073_005	ICAL	tvh 3			14-MAR-2006 13:12	1.0					4 1	
006	073_006	ICAL	tvh 4			14-MAR-2006 13:48	1.0					5 1	
007	073_007	ICAL	tvh 5			14-MAR-2006 14:24	1.0					5 1	
008	073_008	X	ib			14-MAR-2006 15:00	1.0					1	
009	073_009	ICV	tvh			14-MAR-2006 15:36	1.0		5000			6 1 PASS/USE	
010	073_010	X	carbmark			14-MAR-2006 16:27	1.0					7 8 1 PASS/USE	
011	073_011	X	ib			14-MAR-2006 17:03	1.0					1	
012	073_012	ICAL	btxe 1			14-MAR-2006 17:39	1.0					9 1 PASS/USE	
013	073_013	ICAL	mtbe 1			14-MAR-2006 18:15	1.0					10 1	
014	073_014	ICAL	mbtxe 2			14-MAR-2006 18:51	1.0					10 1	
015	073_015	ICAL	mbtxe 3			14-MAR-2006 19:27	1.0					10 1	
016	073_016	ICAL	mbtxe 4			14-MAR-2006 20:03	1.0					11 1	
017	073_017	ICAL	mbtxe 5			14-MAR-2006 20:39	1.0					11 1	
018	073_018	ICAL	mbtxe 6			14-MAR-2006 21:15	1.0					11 1	
019	073_019	ICAL	mtbe 7			14-MAR-2006 21:51	1.0					12 1	
020	073_020	X	ib			14-MAR-2006 22:27	1.0					1	
021	073_021	X	mbtxe			14-MAR-2006 23:04	1.0					13 1 Not used	
022	073_022	ICV	mbtxe			14-MAR-2006 23:40	1.0	1	5000			13 1 PASS/USE	
023	073_023	X	ib			15-MAR-2006 00:16	1.0					1	
024	073_024	X	ib			15-MAR-2006 13:19	1.0					1	
025	073_025	ICAL	tft/bfb 1			15-MAR-2006 13:55	1.0					14 PASS/USE	
026	073_026	ICAL	tft/bfb 2			15-MAR-2006 14:53	1.0					15	
027	073_027	ICAL	tft/bfb 3			15-MAR-2006 15:31	1.0					16	
028	073_028	ICAL	tft/bfb 4			15-MAR-2006 16:07	1.0					17	
029	073_029	ICAL	tft/bfb 5			15-MAR-2006 16:47	1.0					18	

Stds used: 1=S2543 2=S2395 3=S2396 4=S2397 5=S2399 6=S2557 7=S1645 8=S1646 9=S2850 10=S2849 11=S2848 12=S2847 13=S2157 14=S2572 15=S2573 16=S2574 17=S2575 18=S2576

Analyst: [signature] Date: 03/16/06

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Signed [signature] Date 03/16/06

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Signed [signature] Date 3/16/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 306114356 Instrument: GC04
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #4 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 20-MAR-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	079_001	X	ib			20-MAR-2006 09:56	1.0						1	
002	079_002	CCV/LCS	QC332121	111453	Water	20-MAR-2006 10:32	1.0	1		5000			2 1 PASS	
003	079_003	CCV/LCS	QC332122	111453	Water	20-MAR-2006 11:08	1.0		1	5000			3 1	
004	079_004	BLANK	QC332120	111453	Water	20-MAR-2006 11:44	1.0			5000			1 < 1/2 RL	
005	079_005	SAMPLE	185622-016	111453	Water	20-MAR-2006 12:54	1.0			5000	A	1.3	1	
006	079_006	SAMPLE	185622-028	111453	Water	20-MAR-2006 13:30	1.0			5000			1	
007	079_007	SAMPLE	185622-029	111453	Water	20-MAR-2006 14:06	1.0			5000			1	
008	079_008	MSS	185622-009	111453	Water	20-MAR-2006 14:42	1.0			5000			1	
009	079_009	SAMPLE	185622-010	111453	Water	20-MAR-2006 15:18	1.0			5000			1	
010	079_010	MS	QC332189	111453	Water	20-MAR-2006 15:54	1.0		2	5000			3 1 PASS	
011	079_011	MSD	QC332190	111453	Water	20-MAR-2006 16:30	1.0		2	5000			3 1	
012	079_012	CCV	mbtxe	111453		20-MAR-2006 17:06	1.0	4		5000			4 1	
013	079_013	CCV	mbtxe	111453		20-MAR-2006 17:42	1.0	4		5000			4 1	
014	079_014	CCV	tvh	111453		20-MAR-2006 18:18	1.0			5000			3 1	
015	079_015	CCV	tvh	111453		20-MAR-2006 18:55	1.0			5000			3 1	
016	079_016	SAMPLE	185622-011	111453	Water	20-MAR-2006 19:31	1.0			5000	A	1.3	1	
017	079_017	SAMPLE	185622-012	111453	Water	20-MAR-2006 20:07	1.0			5000			1	
018	079_018	SAMPLE	185622-013	111453	Water	20-MAR-2006 20:43	1.0			5000			1	
019	079_019	SAMPLE	185622-014	111453	Water	20-MAR-2006 21:19	1.0			5000			1	
020	079_020	SAMPLE	185622-015	111453	Water	20-MAR-2006 21:55	1.0			5000			1	
021	079_021	SAMPLE	185622-020	111453	Water	20-MAR-2006 22:31	1.0			5000			1	
022	079_022	SAMPLE	185622-021	111453	Water	20-MAR-2006 23:07	1.0			5000			1	
023	079_023	SAMPLE	185622-022	111453	Water	20-MAR-2006 23:43	1.0			5000			1	
024	079_024	SAMPLE	185622-024	111453	Water	21-MAR-2006 00:19	1.0			5000			1	
025	079_025	SAMPLE	185622-025	111453	Water	21-MAR-2006 00:55	1.0			5000			3 1 PASS	
026	079_026	CCV	tvh	111453		21-MAR-2006 01:31	1.0			5000			3 1	
027	079_027	CCV	tvh	111453		21-MAR-2006 02:07	1.0			5000	A	1.3	1	
028	079_028	SAMPLE	185622-026	111453	Water	21-MAR-2006 02:43	1.0			5000			1	
029	079_029	SAMPLE	185622-027	111453	Water	21-MAR-2006 03:19	1.0			5000			1	
030	079_030	SAMPLE	185622-030	111453	Water	21-MAR-2006 03:55	1.0			5000			1	

Stds used: 1=S2543 2=S2650 3=S2869 4=S2915

Analyst: TJP Date: 3/21/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 306114356 Instrument: GC04
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #4 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 20-MAR-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
031	079_031	SAMPLE	185622-036	111453	Water	21-MAR-2006 04:31	1.0			5000	A	1.3	1	
032	079_032	SAMPLE	185622-037	111453	Water	21-MAR-2006 05:07	1.0			5000			1	
033	079_033	CCV	tvh	111453		21-MAR-2006 05:43	1.0			5000			3 1 PASS	
034	079_034	CCV	tvh	111453		21-MAR-2006 06:19	1.0			5000			3 1	

3/21/06

Stds used: 1=S2543 2=S2650 3=S2869 4=S2915

Analyst: TJP Date: 3/21/06

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3/21/06 Signed Date

3/21/06 Signed Date

REPORTING SUMMARY FOR 185622 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185622-009	Gasoline C7-C12	GC04	A	03/20/06 14:42
185622-009	Trifluorotoluene (FID)	GC04	A	03/20/06 14:42
185622-009	Bromofluorobenzene (FID)	GC04	A	03/20/06 14:42
185622-010	Gasoline C7-C12	GC04	A	03/20/06 15:18
185622-010	Trifluorotoluene (FID)	GC04	A	03/20/06 15:18
185622-010	Bromofluorobenzene (FID)	GC04	A	03/20/06 15:18
185622-011	Gasoline C7-C12	GC04	A	03/20/06 19:31
185622-011	Trifluorotoluene (FID)	GC04	A	03/20/06 19:31
185622-011	Bromofluorobenzene (FID)	GC04	A	03/20/06 19:31
185622-012	Gasoline C7-C12	GC04	A	03/20/06 20:07
185622-012	Trifluorotoluene (FID)	GC04	A	03/20/06 20:07
185622-012	Bromofluorobenzene (FID)	GC04	A	03/20/06 20:07
185622-013	Gasoline C7-C12	GC04	A	03/20/06 20:43
185622-013	Trifluorotoluene (FID)	GC04	A	03/20/06 20:43
185622-013	Bromofluorobenzene (FID)	GC04	A	03/20/06 20:43
185622-014	Gasoline C7-C12	GC04	A	03/20/06 21:19
185622-014	Trifluorotoluene (FID)	GC04	A	03/20/06 21:19
185622-014	Bromofluorobenzene (FID)	GC04	A	03/20/06 21:19
185622-015	Gasoline C7-C12	GC04	A	03/20/06 21:55
185622-015	Trifluorotoluene (FID)	GC04	A	03/20/06 21:55
185622-015	Bromofluorobenzene (FID)	GC04	A	03/20/06 21:55
185622-016	Gasoline C7-C12	GC04	A	03/20/06 12:54
185622-016	MTBE	GC04	B	03/20/06 12:54
185622-016	Benzene	GC04	B	03/20/06 12:54
185622-016	Toluene	GC04	B	03/20/06 12:54
185622-016	Ethylbenzene	GC04	B	03/20/06 12:54
185622-016	Trifluorotoluene (FID)	GC04	A	03/20/06 12:54
185622-016	Bromofluorobenzene (FID)	GC04	A	03/20/06 12:54
185622-016	Trifluorotoluene (PID)	GC04	B	03/20/06 12:54
185622-016	Bromofluorobenzene (PID)	GC04	B	03/20/06 12:54
185622-016	Xylene (total)	GC04	B	03/20/06 12:54
185622-020	Gasoline C7-C12	GC04	A	03/20/06 22:31
185622-020	Trifluorotoluene (FID)	GC04	A	03/20/06 22:31
185622-020	Bromofluorobenzene (FID)	GC04	A	03/20/06 22:31
185622-021	Gasoline C7-C12	GC04	A	03/20/06 23:07
185622-021	Trifluorotoluene (FID)	GC04	A	03/20/06 23:07
185622-021	Bromofluorobenzene (FID)	GC04	A	03/20/06 23:07
185622-022	Gasoline C7-C12	GC04	A	03/20/06 23:43
185622-022	Trifluorotoluene (FID)	GC04	A	03/20/06 23:43
185622-022	Bromofluorobenzene (FID)	GC04	A	03/20/06 23:43
185622-024	Gasoline C7-C12	GC04	A	03/21/06 00:19
185622-024	Trifluorotoluene (FID)	GC04	A	03/21/06 00:19
185622-024	Bromofluorobenzene (FID)	GC04	A	03/21/06 00:19

REPORTING SUMMARY FOR 185622 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185622-025	Gasoline C7-C12	GC04	A	03/21/06 00:55
185622-025	Trifluorotoluene (FID)	GC04	A	03/21/06 00:55
185622-025	Bromofluorobenzene (FID)	GC04	A	03/21/06 00:55
185622-026	Gasoline C7-C12	GC04	A	03/21/06 02:43
185622-026	Trifluorotoluene (FID)	GC04	A	03/21/06 02:43
185622-026	Bromofluorobenzene (FID)	GC04	A	03/21/06 02:43
185622-027	Gasoline C7-C12	GC04	A	03/21/06 03:19
185622-027	Trifluorotoluene (FID)	GC04	A	03/21/06 03:19
185622-027	Bromofluorobenzene (FID)	GC04	A	03/21/06 03:19
185622-028	MTBE	GC04	B	03/20/06 13:30
185622-028	Benzene	GC04	B	03/20/06 13:30
185622-028	Toluene	GC04	B	03/20/06 13:30
185622-028	Ethylbenzene	GC04	B	03/20/06 13:30
185622-028	Trifluorotoluene (PID)	GC04	B	03/20/06 13:30
185622-028	Bromofluorobenzene (PID)	GC04	B	03/20/06 13:30
185622-028	Xylene (total)	GC04	B	03/20/06 13:30
185622-029	Gasoline C7-C12	GC04	A	03/20/06 14:06
185622-029	MTBE	GC04	B	03/20/06 14:06
185622-029	Benzene	GC04	B	03/20/06 14:06
185622-029	Toluene	GC04	B	03/20/06 14:06
185622-029	Ethylbenzene	GC04	B	03/20/06 14:06
185622-029	Trifluorotoluene (FID)	GC04	A	03/20/06 14:06
185622-029	Bromofluorobenzene (FID)	GC04	A	03/20/06 14:06
185622-029	Trifluorotoluene (PID)	GC04	B	03/20/06 14:06
185622-029	Bromofluorobenzene (PID)	GC04	B	03/20/06 14:06
185622-029	Xylene (total)	GC04	B	03/20/06 14:06
185622-030	Gasoline C7-C12	GC04	A	03/21/06 03:55
185622-030	Trifluorotoluene (FID)	GC04	A	03/21/06 03:55
185622-030	Bromofluorobenzene (FID)	GC04	A	03/21/06 03:55
185622-036	Gasoline C7-C12	GC04	A	03/21/06 04:31
185622-036	Trifluorotoluene (FID)	GC04	A	03/21/06 04:31
185622-036	Bromofluorobenzene (FID)	GC04	A	03/21/06 04:31
185622-037	Gasoline C7-C12	GC04	A	03/21/06 05:07
185622-037	Trifluorotoluene (FID)	GC04	A	03/21/06 05:07
185622-037	Bromofluorobenzene (FID)	GC04	A	03/21/06 05:07
QC332120	Gasoline C7-C12	GC04	A	03/20/06 11:44
QC332120	MTBE	GC04	B	03/20/06 11:44
QC332120	Benzene	GC04	B	03/20/06 11:44
QC332120	Toluene	GC04	B	03/20/06 11:44
QC332120	Ethylbenzene	GC04	B	03/20/06 11:44
QC332120	Trifluorotoluene (FID)	GC04	A	03/20/06 11:44
QC332120	Bromofluorobenzene (FID)	GC04	A	03/20/06 11:44
QC332120	Trifluorotoluene (PID)	GC04	B	03/20/06 11:44
QC332120	Bromofluorobenzene (PID)	GC04	B	03/20/06 11:44
QC332120	Xylene (total)	GC04	B	03/20/06 11:44

REPORTING SUMMARY FOR 185622 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC332121	MTBE	GC04	B	03/20/06 10:32
QC332121	Benzene	GC04	B	03/20/06 10:32
QC332121	Toluene	GC04	B	03/20/06 10:32
QC332121	Ethylbenzene	GC04	B	03/20/06 10:32
QC332121	Trifluorotoluene (PID)	GC04	B	03/20/06 10:32
QC332121	Bromofluorobenzene (PID)	GC04	B	03/20/06 10:32
QC332122	Gasoline C7-C12	GC04	A	03/20/06 11:08
QC332122	Trifluorotoluene (FID)	GC04	A	03/20/06 11:08
QC332122	Bromofluorobenzene (FID)	GC04	A	03/20/06 11:08
QC332189	Gasoline C7-C12	GC04	A	03/20/06 15:54
QC332189	Trifluorotoluene (FID)	GC04	A	03/20/06 15:54
QC332189	Bromofluorobenzene (FID)	GC04	A	03/20/06 15:54
QC332190	Gasoline C7-C12	GC04	A	03/20/06 16:30
QC332190	Trifluorotoluene (FID)	GC04	A	03/20/06 16:30
QC332190	Bromofluorobenzene (FID)	GC04	A	03/20/06 16:30

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111453
Date Started: 20-MAR-2006
Batched by : Micaela M. Perpetuo

Analysis : N/A
Bgroup : TVH
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185622-009			Treadwell & Rollo	Water	TVH	29-MAR-2006
185622-010			Treadwell & Rollo	Water	TVH	29-MAR-2006
185622-011			Treadwell & Rollo	Water	TVH	29-MAR-2006
185622-012			Treadwell & Rollo	Water	TVH	29-MAR-2006
185622-013			Treadwell & Rollo	Water	TVH	29-MAR-2006
185622-014			Treadwell & Rollo	Water	TVH	29-MAR-2006
185622-015			Treadwell & Rollo	Water	TVH	29-MAR-2006
185622-016			Treadwell & Rollo	Water	MBTXE, TVH	29-MAR-2006
185622-020			Treadwell & Rollo	Water	TVH	29-MAR-2006
185622-021			Treadwell & Rollo	Water	TVH	29-MAR-2006
185622-022			Treadwell & Rollo	Water	TVH	29-MAR-2006
185622-024			Treadwell & Rollo	Water	TVH	29-MAR-2006
185622-025			Treadwell & Rollo	Water	TVH	29-MAR-2006
185622-026			Treadwell & Rollo	Water	TVH	29-MAR-2006
185622-027			Treadwell & Rollo	Water	TVH	29-MAR-2006
185622-028			Treadwell & Rollo	Water	MBTXE	29-MAR-2006
185622-029			Treadwell & Rollo	Water	MBTXE, TVH	29-MAR-2006
185622-030			Treadwell & Rollo	Water	TVH	29-MAR-2006
185622-036			Treadwell & Rollo	Water	TVH	29-MAR-2006
185622-037			Treadwell & Rollo	Water	TVH	29-MAR-2006
QC332120	BLANK			Water		
QC332121	LCS			Water		
QC332122	LCS			Water		
QC332189	MS	of 185622-009		Water		
QC332190	MSD	of 185622-009		Water		

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water
As of 04/13/06

Analyte	Units	GC19 X	GC04 A	GC04 J	GC05 G	GC07 A
Gasoline C6-C10	ug/L	21	6.7	6.2	4.8	10
Gasoline C6-C12	ug/L	21	5.5	6.8	4.5	14
Gasoline C7-C12	ug/L	27	4.8	7.2	4.2	15
JP-4 C7-C12	ug/L	4.6		12	9.9	19
Gasoline C6-C8	ug/L					7.0
Gasoline C8-C10	ug/L					12
Trifluorotoluene (FID)	ug/L		3.9			9.8
Bromofluorobenzene (FID)	ug/L		5.2			7.5

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8021B Water
As of 04/13/06

Analyte	Units	GC19 Y	GC19 Z	GC04 K	GC04 L	GC05 H	GC05 I	GC07 B	GC07 C
MTBE	ug/L	0.49	0.18	0.45	0.83	0.30	0.62	0.35	0.23
Benzene	ug/L	0.073	0.033	0.094	0.16	0.034	0.057	0.23	0.035
Toluene	ug/L	0.13	0.025	0.14	0.11	0.048	0.15	0.069	0.024
Ethylbenzene	ug/L	0.14	0.024	0.038	0.12	0.036	0.17	0.084	0.056
m,p-Xylenes	ug/L	0.13	0.039	0.10	0.21	0.030	0.17	0.090	0.027
o-Xylene	ug/L	0.15	0.015	0.12	0.10	0.083	0.19	0.13	0.040

TOTAL EXTRACTABLE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	111728
Units:	ug/L	Received:	03/17/06
Diln Fac:	1.000	Prepared:	03/27/06

Field ID:	231GW26	Sampled:	03/16/06
Type:	SAMPLE	Analyzed:	03/28/06
Lab ID:	185622-009	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	94	65-135

Field ID:	231GW24	Sampled:	03/16/06
Type:	SAMPLE	Analyzed:	03/28/06
Lab ID:	185622-010	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	55 H Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	98	65-135

Field ID:	231GW19	Sampled:	03/16/06
Type:	SAMPLE	Analyzed:	03/28/06
Lab ID:	185622-011	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	65 H Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	85	65-135

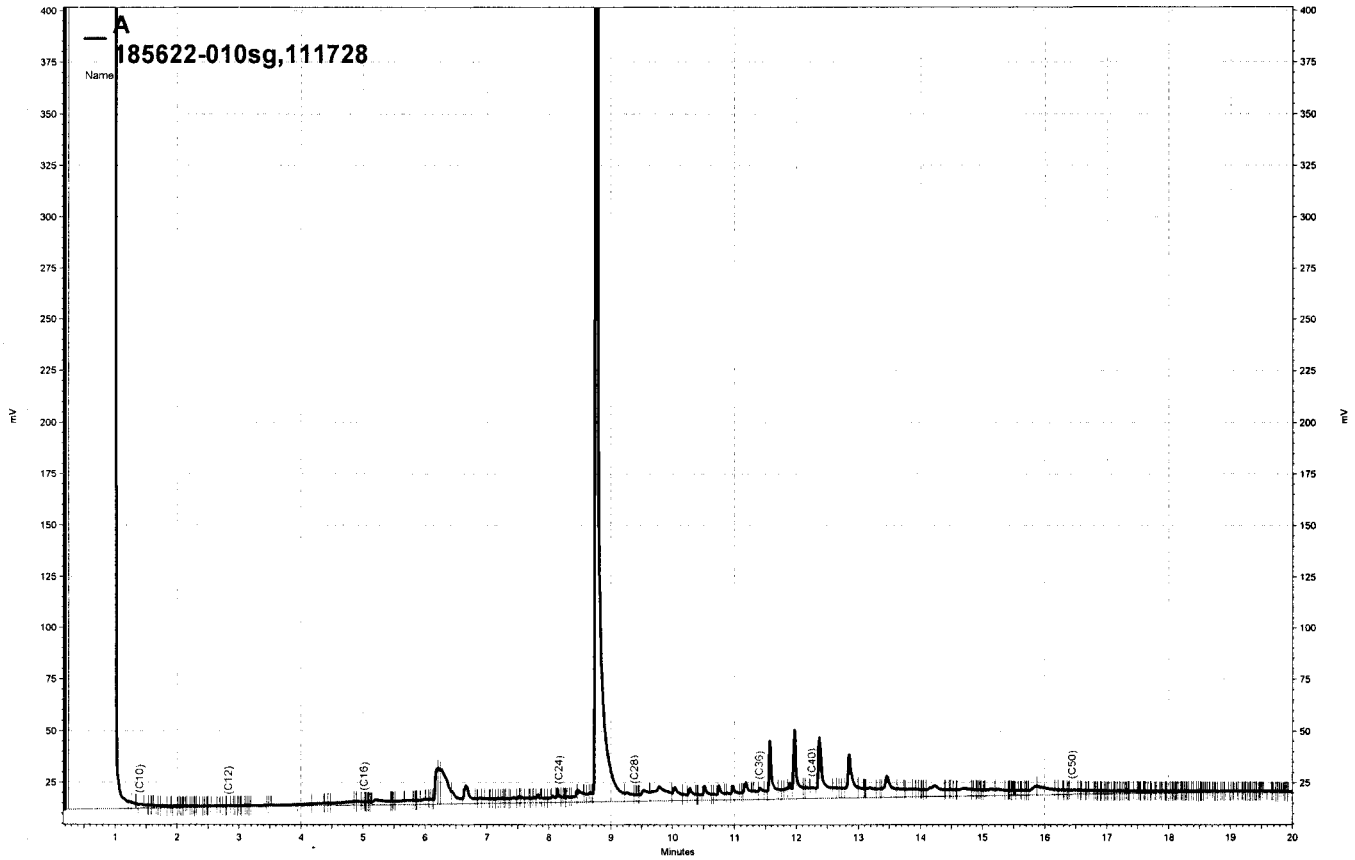
Field ID:	231GW29	Sampled:	03/16/06
Type:	SAMPLE	Analyzed:	03/28/06
Lab ID:	185622-012	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	57 H Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	85	65-135

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

231GW24



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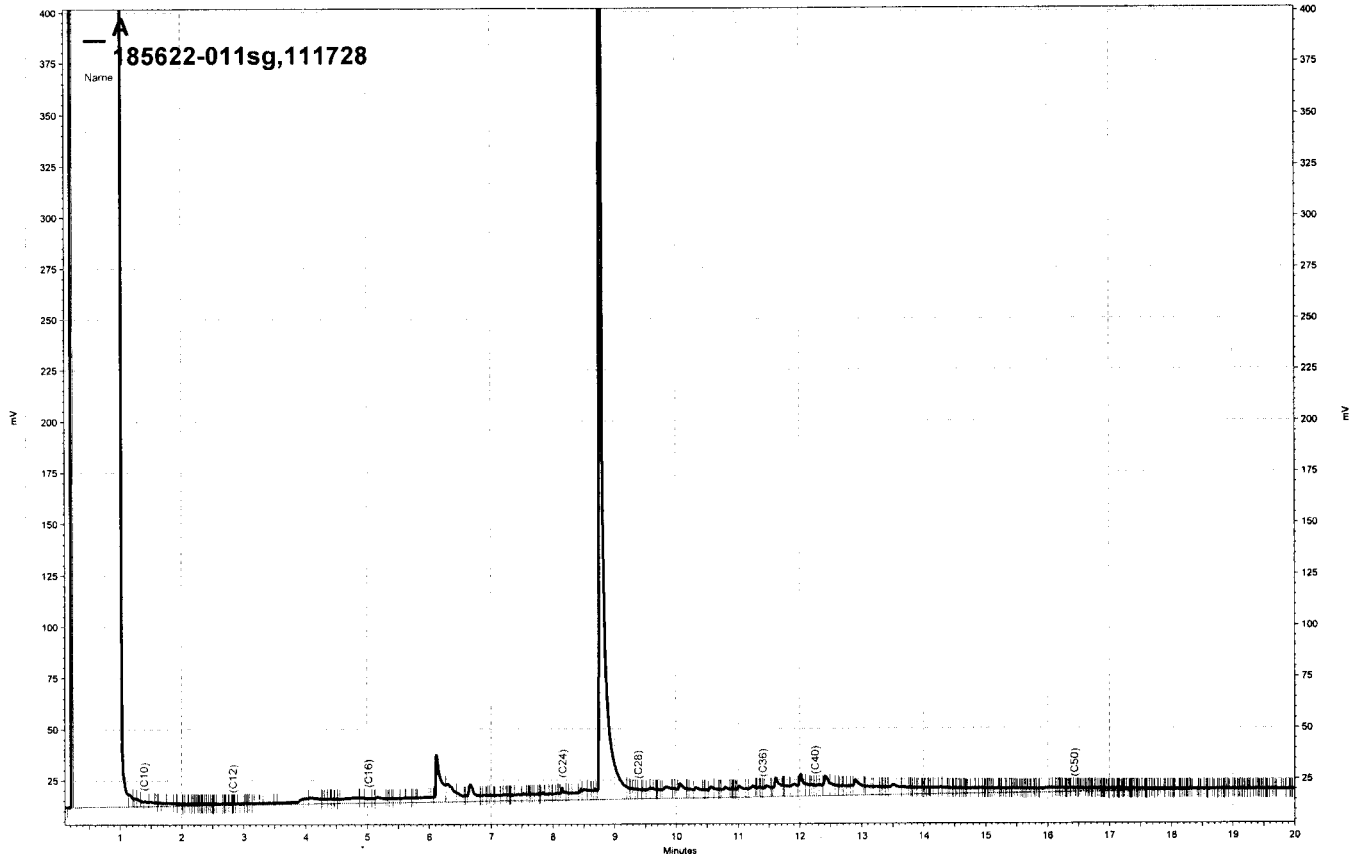
231GW19



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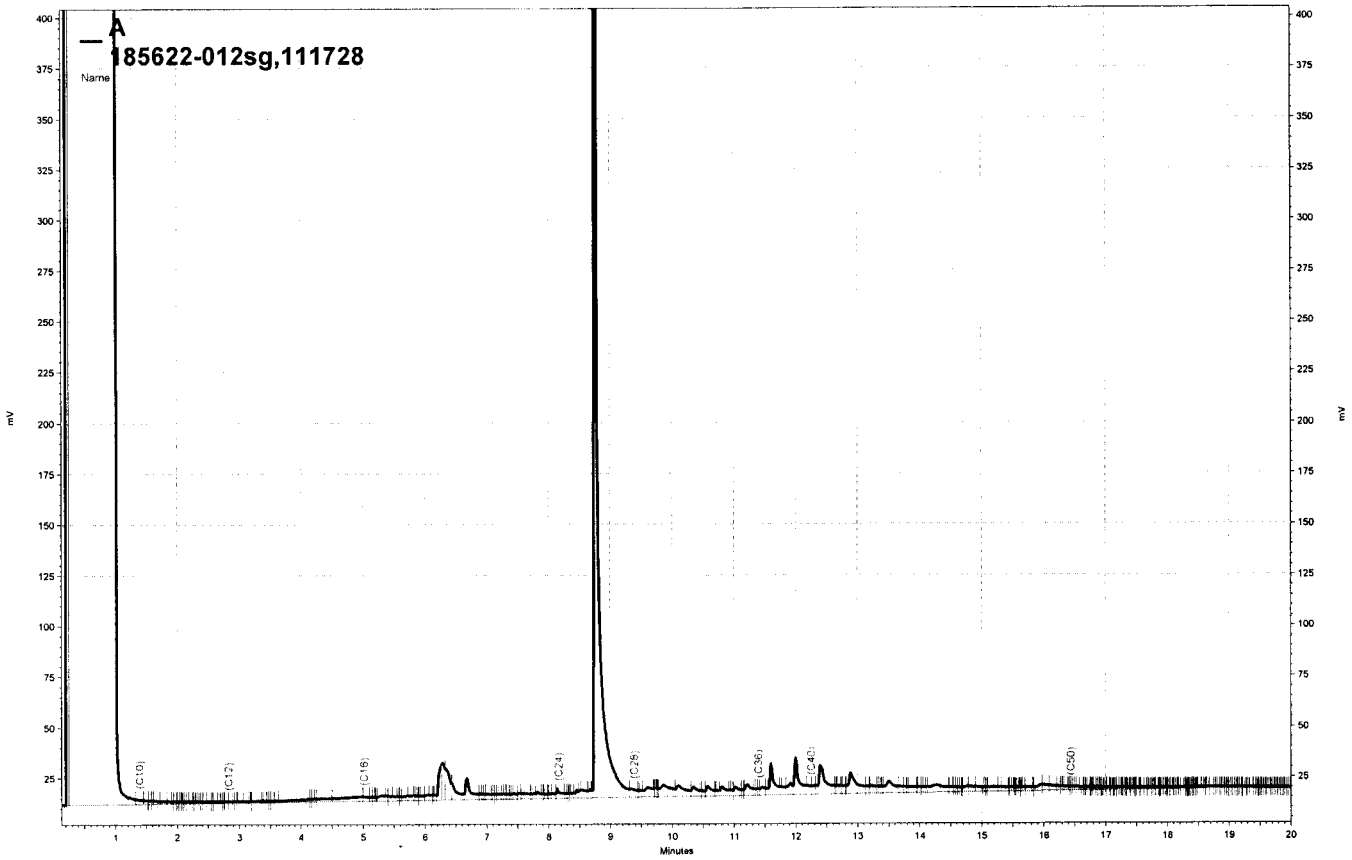
231GW29



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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	111728
Units:	ug/L	Received:	03/17/06
Diln Fac:	1.000	Prepared:	03/27/06

Field ID:	BB3PZ101	Sampled:	03/16/06
Type:	SAMPLE	Analyzed:	03/28/06
Lab ID:	185622-013	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	81 H Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	85	65-135

Field ID:	BB3GW100	Sampled:	03/16/06
Type:	SAMPLE	Analyzed:	03/29/06
Lab ID:	185622-014	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	78 H Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	84	65-135

Field ID:	207GW03	Sampled:	03/16/06
Type:	SAMPLE	Analyzed:	03/29/06
Lab ID:	185622-015	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	55 H Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	89	65-135

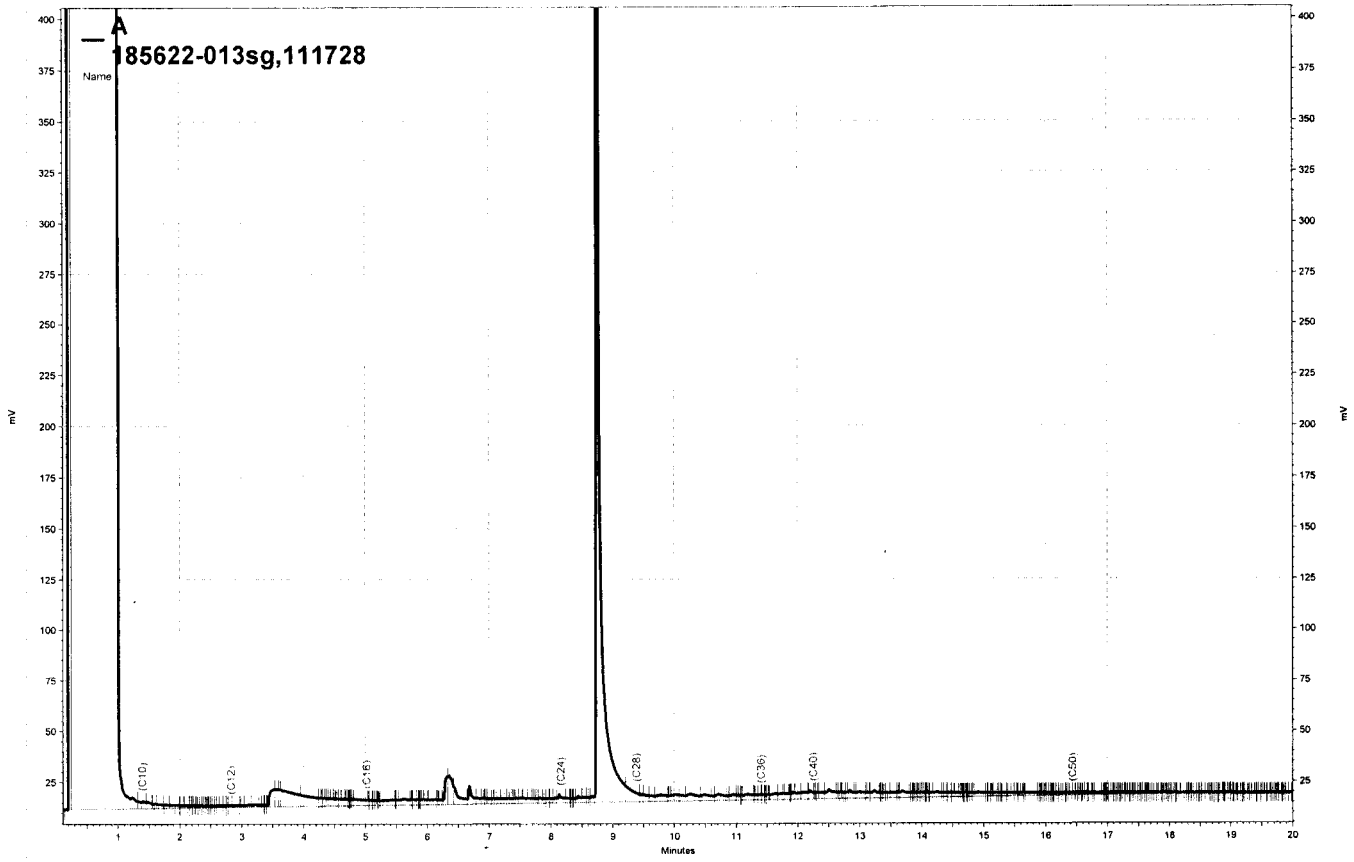
Field ID:	1065MW10A	Sampled:	03/16/06
Type:	SAMPLE	Analyzed:	03/29/06
Lab ID:	185622-016	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	55 H Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	99	65-135

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

BB3PZ101



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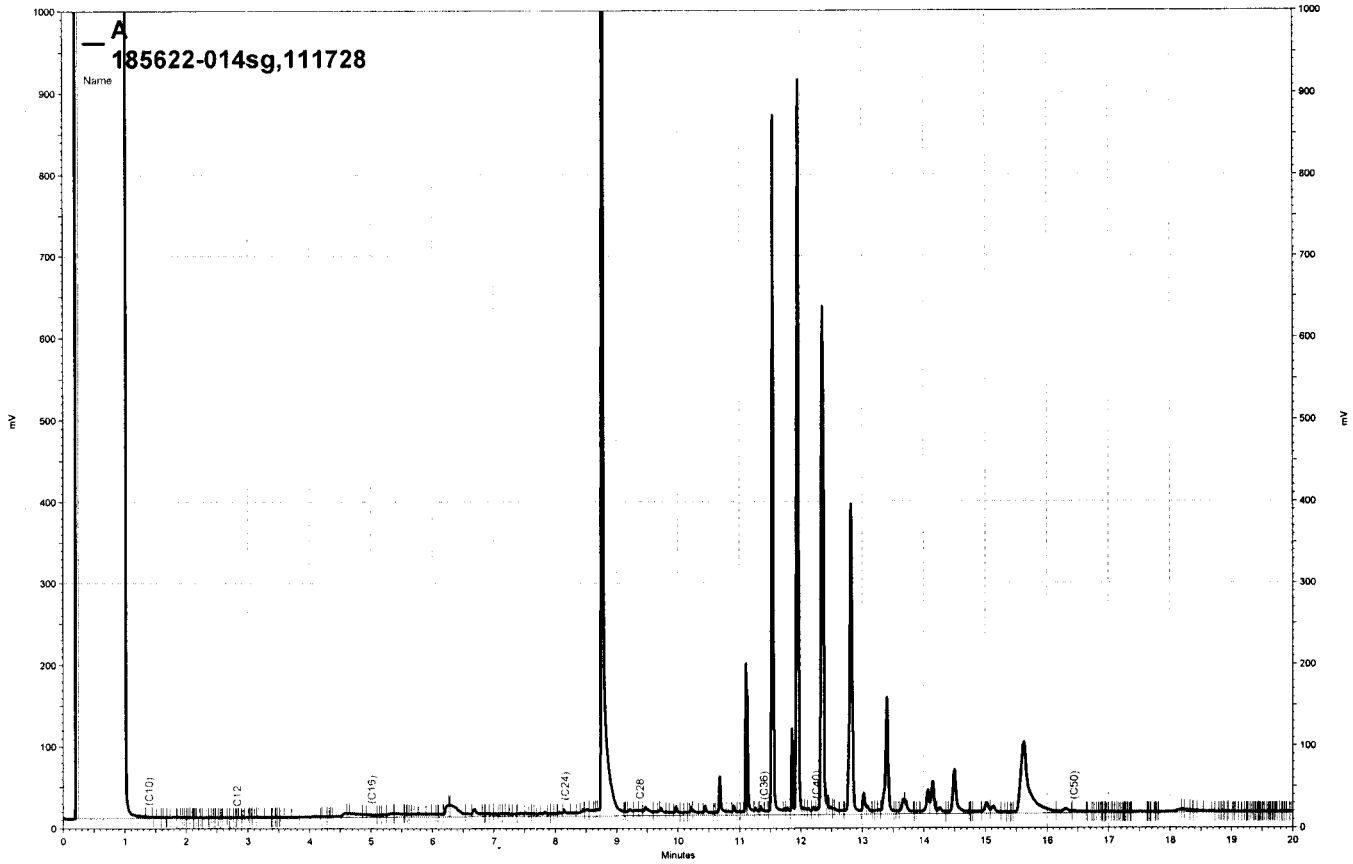

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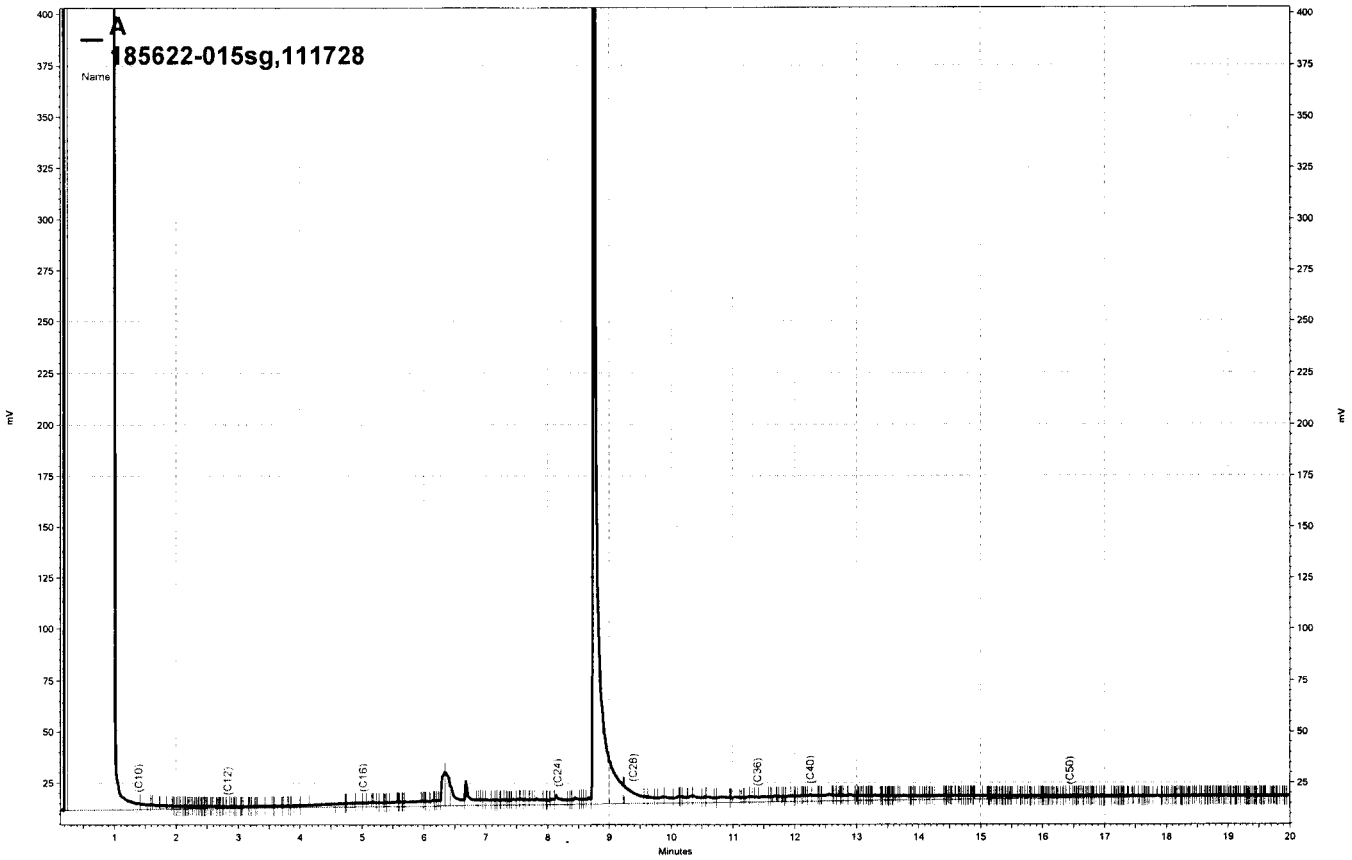
207GW03



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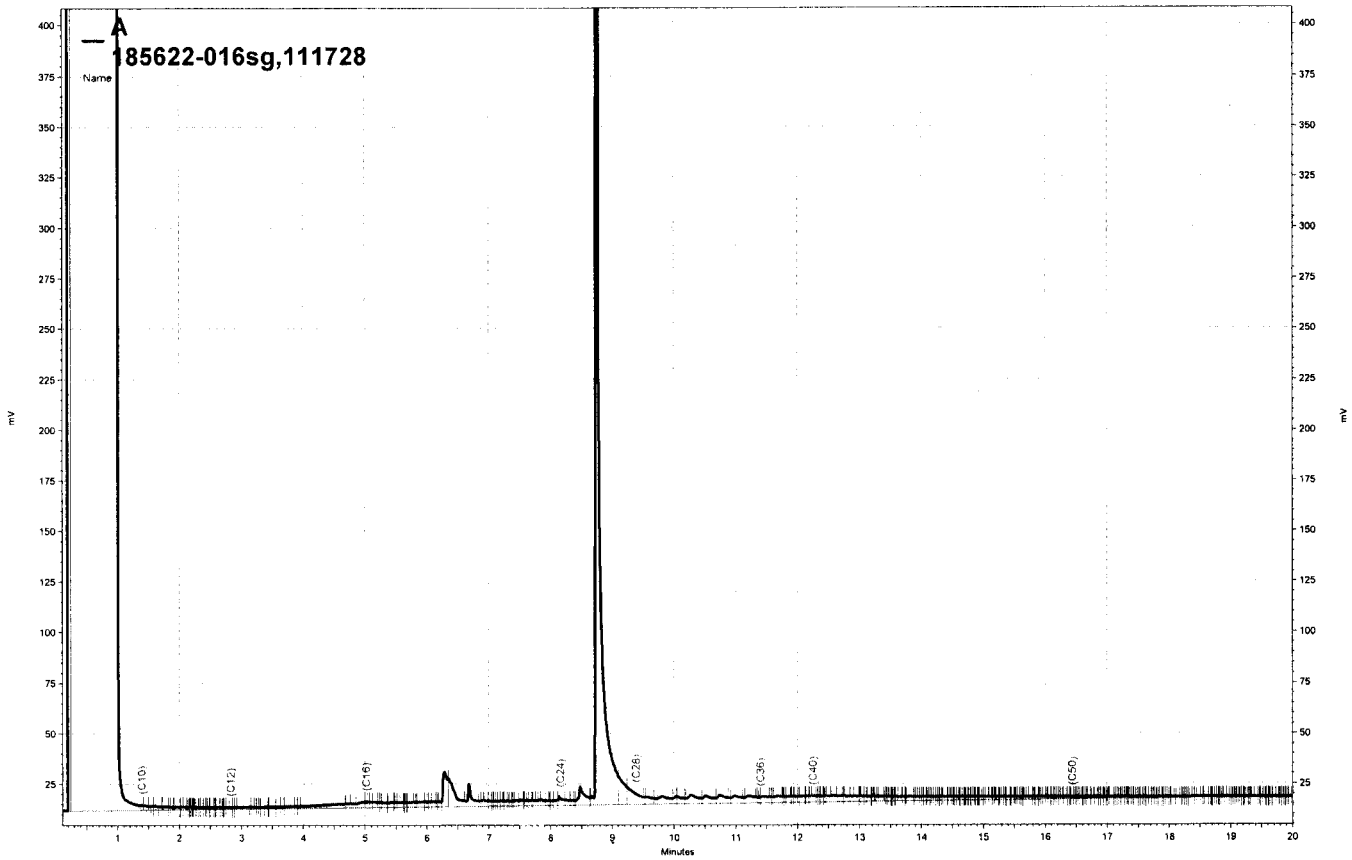
1065 MW10A



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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	111728
Units:	ug/L	Received:	03/17/06
Diln Fac:	1.000	Prepared:	03/27/06

Field ID:	DAEGW101	Sampled:	03/16/06
Type:	SAMPLE	Analyzed:	03/29/06
Lab ID:	185622-020	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	65 H Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	91	65-135

Field ID:	DAEGW102	Sampled:	03/16/06
Type:	SAMPLE	Analyzed:	03/29/06
Lab ID:	185622-021	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	78	65-135

Field ID:	DAEGW104	Sampled:	03/16/06
Type:	SAMPLE	Analyzed:	03/29/06
Lab ID:	185622-022	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	54 H Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	128	65-135

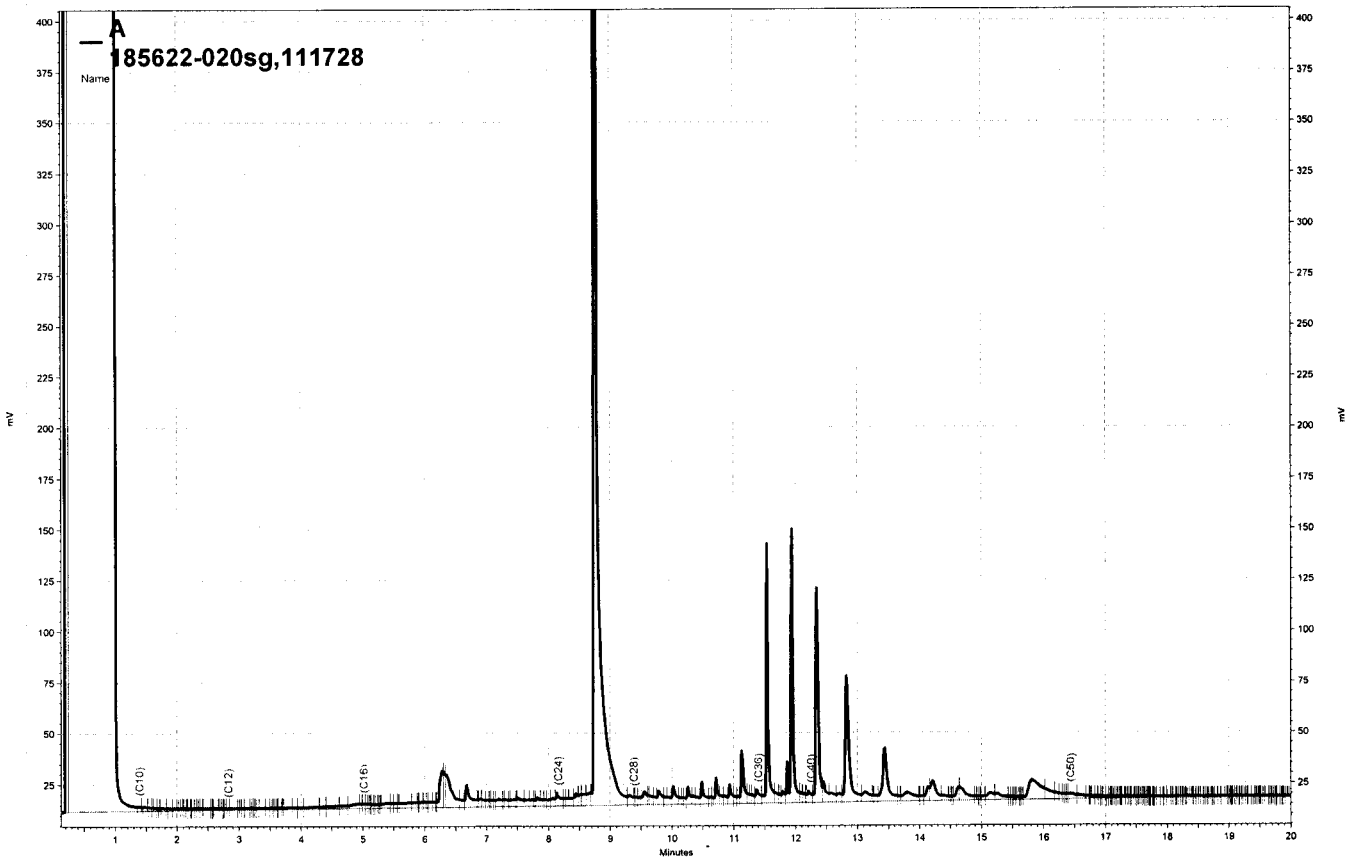
Field ID:	DAEGW06	Sampled:	03/16/06
Type:	SAMPLE	Analyzed:	03/29/06
Lab ID:	185622-023	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	79	65-135

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

DAEGW101



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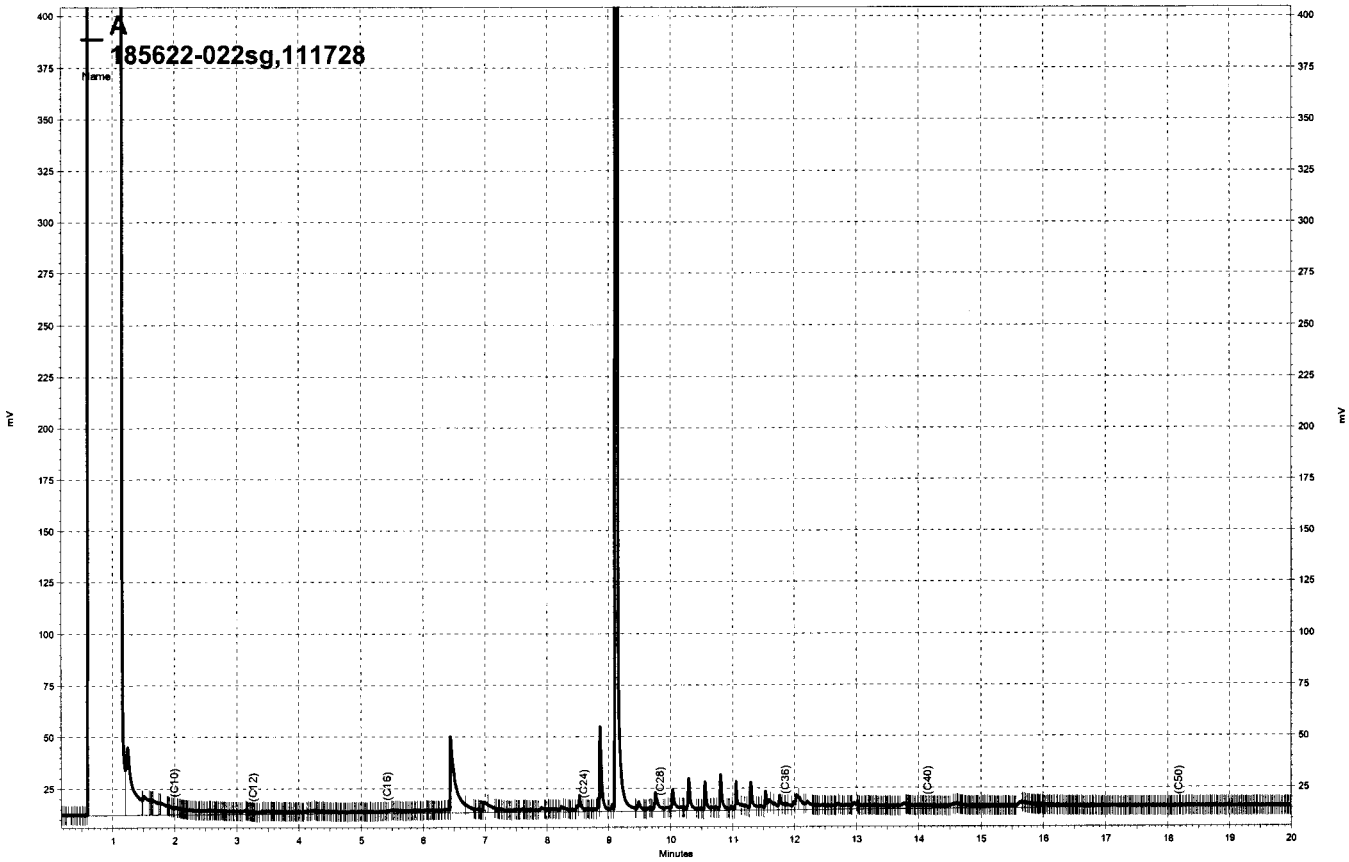
DAEGW104



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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	111728
Units:	ug/L	Received:	03/17/06
Diln Fac:	1.000	Prepared:	03/27/06

Field ID:	1349MW01	Sampled:	03/16/06
Type:	SAMPLE	Analyzed:	03/30/06
Lab ID:	185622-024	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	79 H Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	89	65-135

Field ID:	1349MW03R	Sampled:	03/16/06
Type:	SAMPLE	Analyzed:	03/29/06
Lab ID:	185622-025	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	90	65-135

Field ID:	1349MW100	Sampled:	03/16/06
Type:	SAMPLE	Analyzed:	03/29/06
Lab ID:	185622-026	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	6,900	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	97	65-135

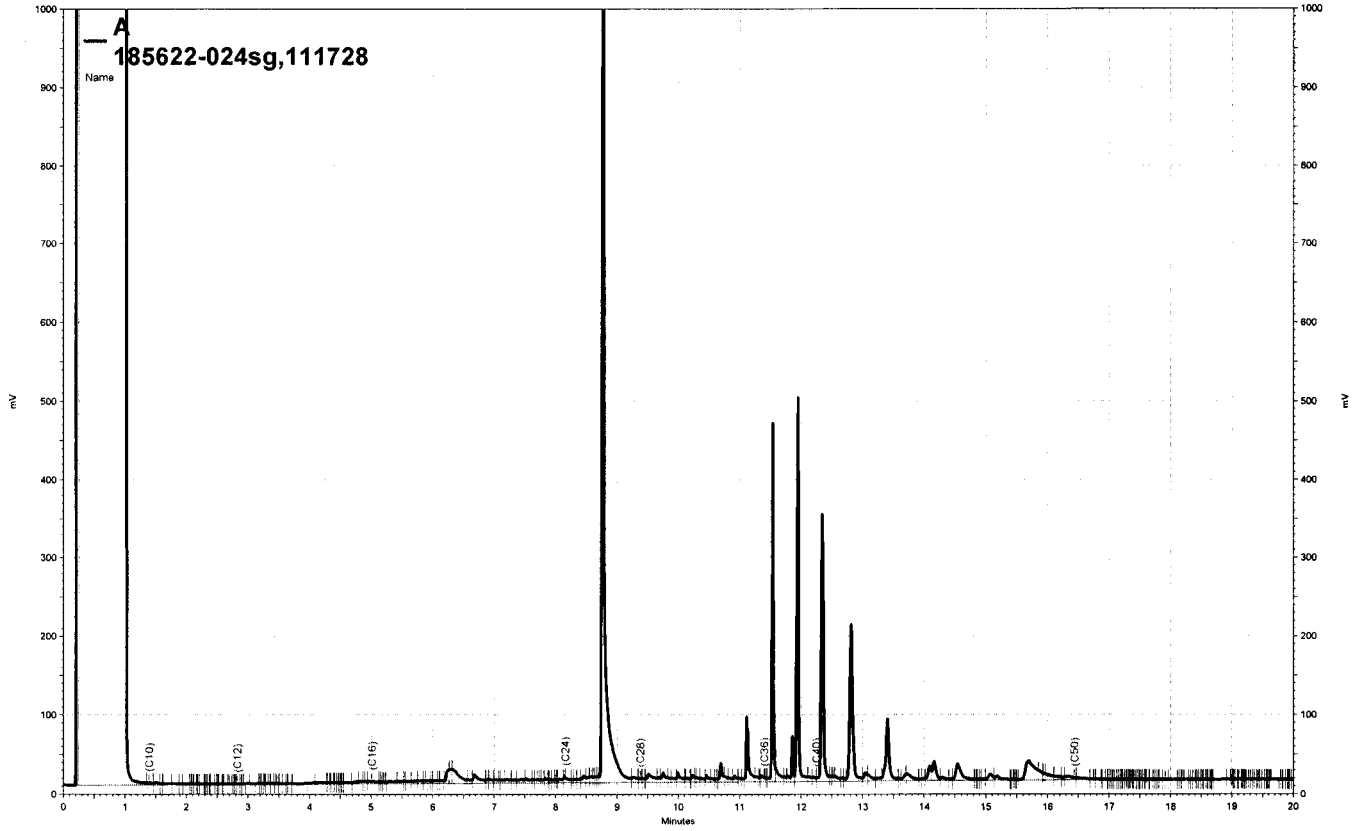
Field ID:	1349MW101	Sampled:	03/16/06
Type:	SAMPLE	Analyzed:	03/29/06
Lab ID:	185622-027	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	72	65-135

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

1349 MW01



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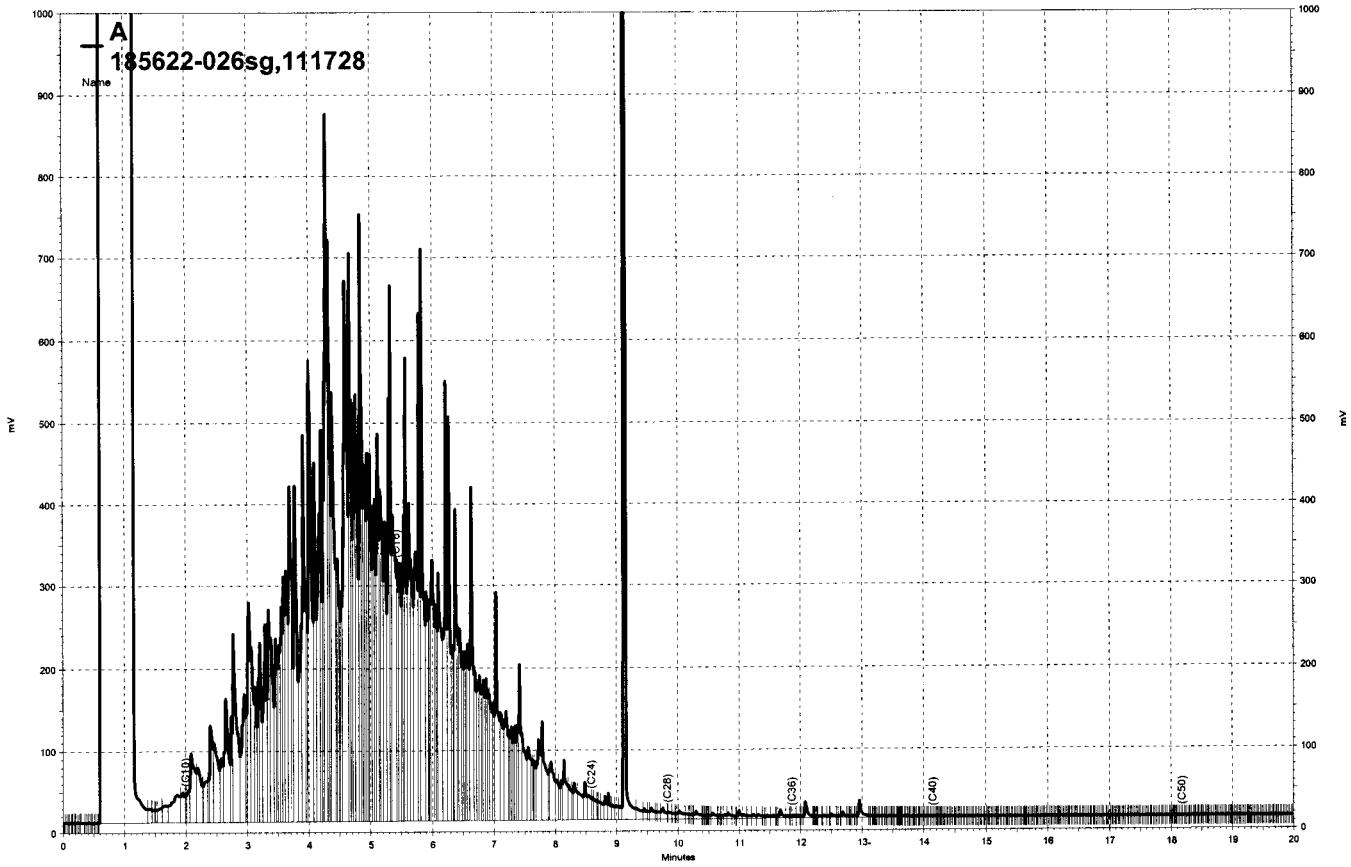
1349MW100



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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	111728
Units:	ug/L	Received:	03/17/06
Diln Fac:	1.000	Prepared:	03/27/06

Field ID:	LF10GW100	Sampled:	03/17/06
Type:	SAMPLE	Analyzed:	03/29/06
Lab ID:	185622-029	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	82	65-135

Field ID:	LF6GW104	Sampled:	03/17/06
Type:	SAMPLE	Analyzed:	03/29/06
Lab ID:	185622-031	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	84	65-135

Type:	BLANK	Analyzed:	03/29/06
Lab ID:	QC333212	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	79	65-135

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/17/06
Units:	ug/L	Received:	03/17/06
Diln Fac:	1.000	Prepared:	03/26/06
Batch#:	111695		

Field ID: LF6GW101 Analyzed: 03/28/06
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 185622-030

Analyte	Result	RL
Diesel C12-C24 (SGCU)	ND	50

Surrogate	%REC	Limits
Hexacosane (SGCU)	84	65-135

Field ID: LF6GW100 Analyzed: 03/28/06
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 185622-036

Analyte	Result	RL
Diesel C12-C24 (SGCU)	ND	50

Surrogate	%REC	Limits
Hexacosane (SGCU)	84	65-135

Field ID: LF6GW103 Analyzed: 03/28/06
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 185622-037

Analyte	Result	RL
Diesel C12-C24 (SGCU)	ND	50

Surrogate	%REC	Limits
Hexacosane (SGCU)	84	65-135

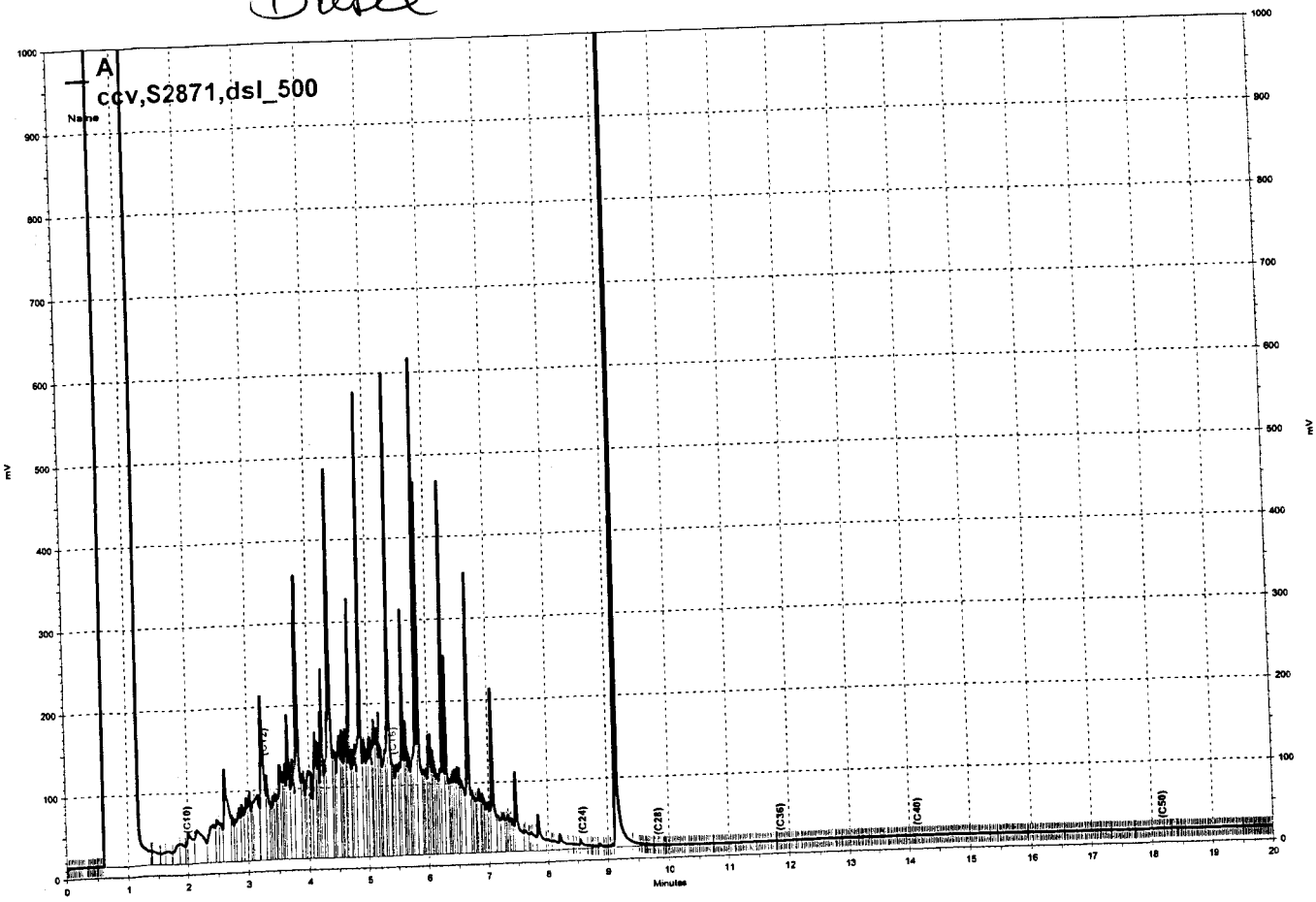
Type: BLANK Analyzed: 03/27/06
Lab ID: QC333084 Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C12-C24 (SGCU)	ND	50

Surrogate	%REC	Limits
Hexacosane (SGCU)	90	65-135

ND= Not Detected
RL= Reporting Limit
SGCU= Silica gel cleanup

Diesel



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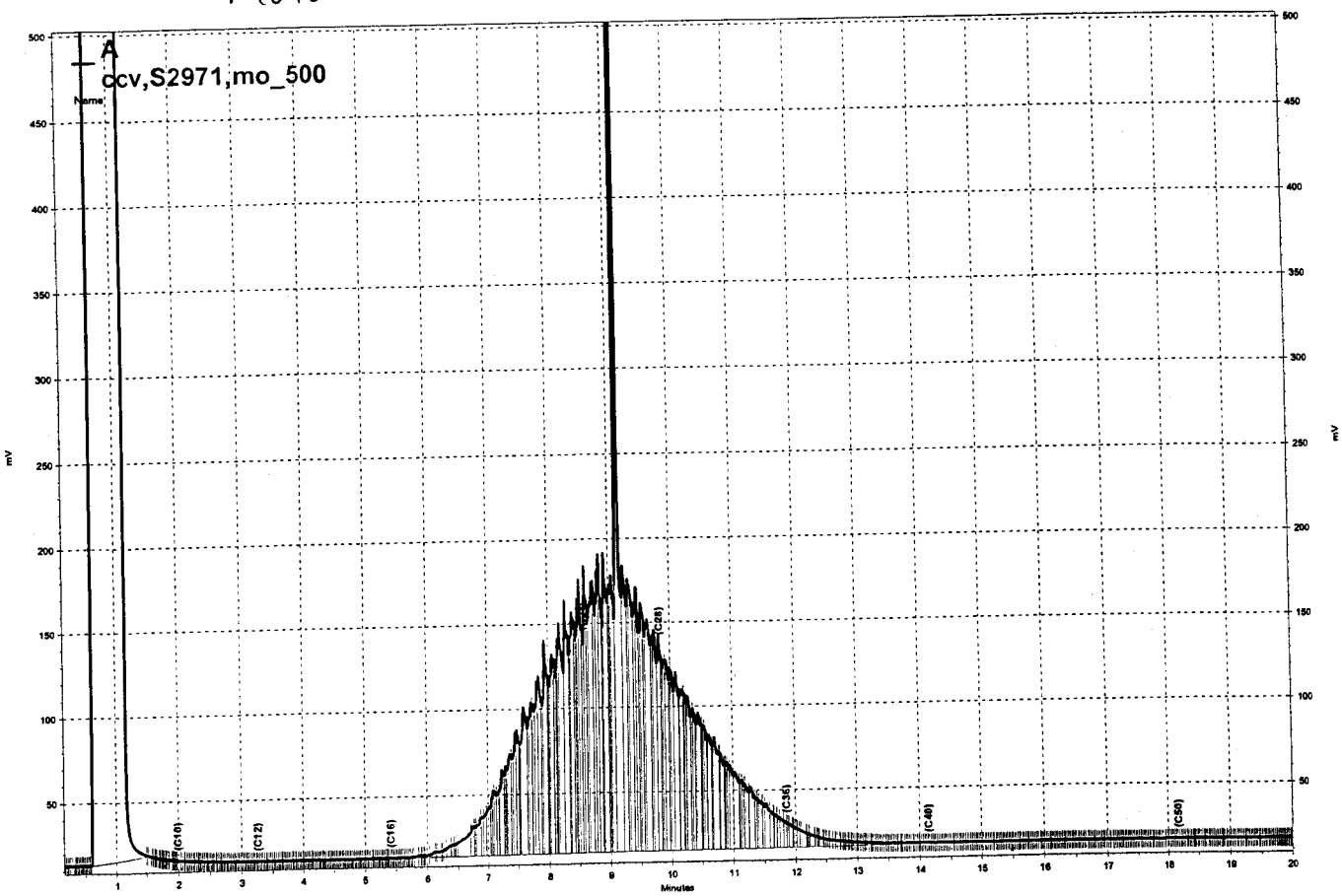
Motor Oil



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Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	111695
Units:	ug/L	Prepared:	03/26/06
Diln Fac:	1.000	Analyzed:	03/27/06

Type: BS Cleanup Method: EPA 3630C
Lab ID: QC333085

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24 (SGCU)	2,500	2,274	91	65-135

Surrogate	%REC	Limits
Hexacosane (SGCU)	91	65-135

Type: BSD Cleanup Method: EPA 3630C
Lab ID: QC333086

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24 (SGCU)	2,500	2,615	105	65-135	14	35

Surrogate	%REC	Limits
Hexacosane (SGCU)	105	65-135

RPD= Relative Percent Difference
SGCU= Silica gel cleanup

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	111728
Units:	ug/L	Prepared:	03/27/06
Diln Fac:	1.000	Analyzed:	03/29/06

Type: BS Cleanup Method: EPA 3630C
Lab ID: QC333213

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	2,500	2,671	107	65-135

Surrogate	%REC	Limits
Hexacosane	81	65-135

Type: BSD Cleanup Method: EPA 3630C
Lab ID: QC333214

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	3,086	123	65-135	14	35

Surrogate	%REC	Limits
Hexacosane	92	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185622 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 115446255002
Units : mg/L

Name : DIESEL
Date : 05-NOV-2005 23:53
X Axis : R

Reviewer: RH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	309a011	115446255011	dsl_10	05-NOV-2005 23:53	S1732
L2	309a013	115446255013	dsl_250	06-NOV-2005 00:49	S1734
L3	309a014	115446255014	dsl_500	06-NOV-2005 01:17	S1735
L4	309a015	115446255015	dsl_1000	06-NOV-2005 01:45	S1736
L5	309a016	115446255016	dsl_2500	06-NOV-2005 02:12	S1737
L6	309a017	115446255017	dsl_5000	06-NOV-2005 02:40	S1731
L7	309a039	115446255039	dsl_100	06-NOV-2005 22:23	S1733

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	66564	67471	67989	68804	69120	69411	70464	AVRG		1.46E-5		68546	2	0.995	20	

85

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185622 GCSV Water
EPA 8015B

Inst : GC11A
Calnum : 115446255002

Name : DIESEL
Cal Date: 05-NOV-2005

ICV 115446255040 (309a040 06-NOV-2005) stds: S1178

Analyte	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	500.0	498.6	mg/L	0	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185622 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 116049801004
Units : mg/L

Date : 04-FEB-2006 00:18
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	034a023	116049801023	mo_50	04-FEB-2006 00:18	S2118
L2	034a024	116049801024	mo_250	04-FEB-2006 00:46	S2119
L3	034a025	116049801025	mo_500	04-FEB-2006 01:14	S2120
L4	034a026	116049801026	mo_1000	04-FEB-2006 01:42	S2121
L5	034a027	116049801027	mo_2500	04-FEB-2006 02:10	S2122
L6	034a028	116049801028	mo_5000	04-FEB-2006 02:39	S2117

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	40103	42997	43448	44594	44247	45696	AVRG		2.30E-5		43514	4	0.995	20	

87

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185622 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 115446255001
Units : mg/L

Name : Hexacosane
Date : 05-NOV-2005 21:35
X Axis : R

Reviewer: RH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	309a006	115446255006	hex_5	05-NOV-2005 21:35	S1469
L2	309a007	115446255007	hex_10	05-NOV-2005 22:02	S1470
L3	309a008	115446255008	hex_25	05-NOV-2005 22:30	S1471
L4	309a009	115446255009	hex_50	05-NOV-2005 22:58	S1472
L5	309a010	115446255010	hex_75	05-NOV-2005 23:25	S1473

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	78300	78621	78154	81971	77951	AVRG		1.27E-5		78999	2	0.995	20	

88

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185622 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166117087001
Units : mg/L

Date : 22-MAR-2006 12:39
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	081b006	166117087006	dsl_10	22-MAR-2006 12:39	S2961
L2	081b007	166117087007	dsl_100	22-MAR-2006 13:07	S2938
L3	081b008	166117087008	dsl_250	22-MAR-2006 13:34	S2939
L4	081b009	166117087009	dsl_500	22-MAR-2006 14:02	S2940
L5	081b010	166117087010	dsl_1000	22-MAR-2006 14:30	S2941
L6	081b011	166117087011	dsl_2500	22-MAR-2006 14:57	S2942
L7	081b012	166117087012	dsl_5000	22-MAR-2006 15:25	S2936

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	60107	59785	55253	54313	53973	54874	53381	AVRG		1.79E-5		55955	5	0.995	20	

89

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

166117087001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185622 GCSV Water
EPA 8015B

Inst : GC15B
Calnum : 166117087001 Cal Date: 22-MAR-2006

ICV 166117087014 (081b014 22-MAR-2006) stds: S2708

Analyte	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	500.0	480.4	mg/L	-4	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185622 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166114247001
Units : mg/L

Date : 20-MAR-2006 14:52
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	079b007	166114247007	hex_5	20-MAR-2006 14:52	S2694
L2	079b008	166114247008	hex_10	20-MAR-2006 15:20	S2695
L3	079b009	166114247009	hex_25	20-MAR-2006 15:49	S2696
L4	079b010	166114247010	hex_50	20-MAR-2006 16:17	S2697
L5	079b011	166114247011	hex_75	20-MAR-2006 16:45	S2698

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	%RSD	r^2 MnR^2	MxRSD	Flg
Hexacosane	64028	62636	61750	60993	60763	AVRG		1.61E-5		62034	2	0.995	20	

91

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185622 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176085452001
Units : mg/L

Date : 01-MAR-2006 07:43
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	059a013	176085452013	dsl_50	01-MAR-2006 07:43	S1732
L2	059a014	176085452014	dsl_100	01-MAR-2006 08:10	S1733
L3	059a015	176085452015	dsl_250	01-MAR-2006 08:37	S1734
L4	059a016	176085452016	dsl_500	01-MAR-2006 09:04	S1735
L5	059a017	176085452017	dsl_1000	01-MAR-2006 09:32	S1736
L6	059a018	176085452018	dsl_2500	01-MAR-2006 10:00	S1737
L7	059a019	176085452019	dsl_5000	01-MAR-2006 10:27	S1731

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	55630	52210	52572	55087	56497	58583	60304	AVRG		1.79E-5		55841	5	0.995	20	

92

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185622 GCSV Water
EPA 8015B

Inst : GC17A
Calnum : 176085452001 Cal Date: 01-MAR-2006

ICV 176085452021 (059a021 01-MAR-2006) stds: S2708

Analyte	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	500.0	454.9	mg/L	-9	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185622 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176093018001
Units : mg/L

Date : 05-MAR-2006 18:11
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	064a007	176093018007	mo_50	05-MAR-2006 18:11	S2118
L2	064a008	176093018008	mo_250	05-MAR-2006 18:38	S2119
L3	064a009	176093018009	mo_500	05-MAR-2006 19:05	S2120
L4	064a010	176093018010	mo_1000	05-MAR-2006 19:32	S2121
L5	064a011	176093018011	mo_2500	05-MAR-2006 20:00	S2122
L6	064a012	176093018012	mo_5000	05-MAR-2006 20:27	S2117

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	35446	41492	40972	42562	41512	41334	AVRG		2.47E-5		40553	6	0.995	20	

94

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185622 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176098515001
Units : mg/L

Name : hexagc17cal
Date : 09-MAR-2006 19:42
X Axis : R

Reviewer: CW
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	068a015	176098515015	hex_5	09-MAR-2006 19:42	S2694
L2	068a016	176098515016	hex_10	09-MAR-2006 20:09	S2695
L3	068a017	176098515017	hex_25	09-MAR-2006 20:37	S2696
L4	068a018	176098515018	hex_50	09-MAR-2006 21:04	S2697
L5	068a019	176098515019	hex_75	09-MAR-2006 21:31	S2698

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	81036	80318	79162	79599	78325	AVRG		1.25E-5		79688	1	0.995	20	

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC15B	B	166123373054	27-MAR-2006 19:12	166117087001	22-MAR-2006	55955	50439	250.00	225.36	mg/L	-10	15	
GC15B	B	166123373069	28-MAR-2006 02:13	166117087001	22-MAR-2006	55955	47538	250.00	212.39	mg/L	-15	15	
GC17A	A	176126174004	28-MAR-2006 16:16	176085452001	01-MAR-2006	55841	58501	250.00	261.91	mg/L	5	15	
GC17A	A	176126174018	28-MAR-2006 23:06	176085452001	01-MAR-2006	55841	61216	500.00	548.13	mg/L	10	15	

CONTINUING CALIBRATION SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116126166004	28-MAR-2006 16:10	115446255002	05-NOV-2005	68546	64502	1000.0	941.00	mg/L	-6	15	
GC11A	A	116126166018	28-MAR-2006 23:47	115446255002	05-NOV-2005	68546	64354	500.00	469.42	mg/L	-6	15	
GC11A	A	116126166028	29-MAR-2006 04:27	115446255002	05-NOV-2005	68546	64486	1000.0	940.76	mg/L	-6	15	
GC11A	A	116127194004	29-MAR-2006 09:18	115446255002	05-NOV-2005	68546	63484	500.00	463.07	mg/L	-7	15	
GC11A	A	116127194015	29-MAR-2006 14:53	115446255002	05-NOV-2005	68546	64789	1000.0	945.18	mg/L	-5	15	
GC11A	A	116128618004	30-MAR-2006 09:03	115446255002	05-NOV-2005	68546	63739	500.00	464.93	mg/L	-7	15	
GC11A	A	116128618017	30-MAR-2006 15:37	115446255002	05-NOV-2005	68546	63903	1000.0	932.26	mg/L	-7	15	
GC15B	B	166123373054	27-MAR-2006 19:12	166117087001	22-MAR-2006	55955	50439	250.00	225.36	mg/L	-10	15	NA CW 4/3/06
GC15B	B	166123373069	28-MAR-2006 02:13	166117087001	22-MAR-2006	55955	47538	250.00	212.39	mg/L	-15	15	
GC17A	A	176126174004	28-MAR-2006 16:16	176085452001	01-MAR-2006	55841	58501	250.00	261.91	mg/L	5	15	
GC17A	A	176126174018	28-MAR-2006 23:06	176085452001	01-MAR-2006	55841	61216	500.00	548.13	mg/L	10	15	
GC17A	A	176126174029	29-MAR-2006 04:06	176085452001	01-MAR-2006	55841	57592	250.00	257.84	mg/L	3	15	
GC17A	A	176127175004	29-MAR-2006 08:57	176085452001	01-MAR-2006	55841	61441	500.00	550.15	mg/L	10	15	
GC17A	A	176127175018	29-MAR-2006 14:44	176085452001	01-MAR-2006	55841	60957	1000.0	1091.6	mg/L	9	15	

CONTINUING CALIBRATION SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116126166003	28-MAR-2006 15:43	116049801004	04-FEB-2006	43514	38066	500.00	437.40	mg/L	-13	15	
GC11A	A	116126166017	28-MAR-2006 23:19	116049801004	04-FEB-2006	43514	37841	500.00	434.81	mg/L	-13	15	
GC11A	A	116126166027	29-MAR-2006 03:59	116049801004	04-FEB-2006	43514	38296	500.00	440.04	mg/L	-12	15	
GC11A	A	116127194003	29-MAR-2006 08:50	116049801004	04-FEB-2006	43514	38956	500.00	447.62	mg/L	-10	15	
GC11A	A	116127194014	29-MAR-2006 14:25	116049801004	04-FEB-2006	43514	38702	500.00	444.70	mg/L	-11	15	
GC11A	A	116128618005	30-MAR-2006 09:55	116049801004	04-FEB-2006	43514	36950	500.00	424.58	mg/L	-15	15	
GC11A	A	116128618016	30-MAR-2006 15:08	116049801004	04-FEB-2006	43514	36820	500.00	423.08	mg/L	-15	15	
GC15B	B	166123373055	27-MAR-2006 19:40	166115824002	21-MAR-2006	31546	29907	500.00	474.02	mg/L	-5	15	NA cw 4/3/06
GC15B	B	166123373068	28-MAR-2006 01:45	166115824002	21-MAR-2006	31546	28607	500.00	453.42	mg/L	-9	15	
GC17A	A	176126174017	28-MAR-2006 22:39	176093018001	05-MAR-2006	40553	37150	500.00	458.04	mg/L	-8	15	
GC17A	A	176126174028	29-MAR-2006 03:39	176093018001	05-MAR-2006	40553	34600	500.00	426.61	mg/L	-15	15	
GC17A	A	176127175003	29-MAR-2006 08:30	176093018001	05-MAR-2006	40553	35512	500.00	437.85	mg/L	-12	15	
GC17A	A	176127175017	29-MAR-2006 14:16	176093018001	05-MAR-2006	40553	36445	500.00	449.35	mg/L	-10	15	

CONTINUING CALIBRATION SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC15B	B	166123373054	27-MAR-2006 19:12	166114247001	20-MAR-2006	62034	62267	50.000	50.188	mg/L	0	15	
GC15B	B	166123373068	28-MAR-2006 01:45	166114247001	20-MAR-2006	62034	60102	50.000	48.442	mg/L	-3	15	
GC17A	A	176126174003	28-MAR-2006 15:49	176098515001	09-MAR-2006	79688	71751	50.000	45.020	mg/L	-10	15	
GC17A	A	176126174017	28-MAR-2006 22:39	176098515001	09-MAR-2006	79688	74484	50.000	46.735	mg/L	-7	15	

CONTINUING CALIBRATION SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116126166003	28-MAR-2006 15:43	115446255001	05-NOV-2005	78999	69202	50.000	43.799	mg/L	-12	15	
GC11A	A	116126166017	28-MAR-2006 23:19	115446255001	05-NOV-2005	78999	69960	50.000	44.278	mg/L	-11	15	
GC11A	A	116126166027	29-MAR-2006 03:59	115446255001	05-NOV-2005	78999	69654	50.000	44.085	mg/L	-12	15	
GC11A	A	116127194003	29-MAR-2006 08:50	115446255001	05-NOV-2005	78999	69191	50.000	43.792	mg/L	-12	15	
GC11A	A	116127194014	29-MAR-2006 14:25	115446255001	05-NOV-2005	78999	68906	50.000	43.612	mg/L	-13	15	
GC11A	A	116128618004	30-MAR-2006 09:03	115446255001	05-NOV-2005	78999	68082	50.000	43.090	mg/L	-14	15	
GC11A	A	116128618016	30-MAR-2006 15:08	115446255001	05-NOV-2005	78999	66953	50.000	42.376	mg/L	-15	15	
GC15B	B	166123373054	27-MAR-2006 19:12	166114247001	20-MAR-2006	62034	62267	50.000	50.188	mg/L	0	15	NA CW 4/3/06
GC15B	B	166123373068	28-MAR-2006 01:45	166114247001	20-MAR-2006	62034	60102	50.000	48.442	mg/L	-3	15	
GC17A	A	176126174003	28-MAR-2006 15:49	176098515001	09-MAR-2006	79688	71751	50.000	45.020	mg/L	-10	15	
GC17A	A	176126174017	28-MAR-2006 22:39	176098515001	09-MAR-2006	79688	74484	50.000	46.735	mg/L	-7	15	
GC17A	A	176126174028	29-MAR-2006 03:39	176098515001	09-MAR-2006	79688	71772	50.000	45.033	mg/L	-10	15	
GC17A	A	176127175003	29-MAR-2006 08:30	176098515001	09-MAR-2006	79688	69195	50.000	43.417	mg/L	-13	15	
GC17A	A	176127175017	29-MAR-2006 14:16	176098515001	09-MAR-2006	79688	73351	50.000	46.024	mg/L	-8	15	

SEQUENCE SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 115446255 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 05-NOV-2005
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
003	309a003	X	c12-60			05-NOV-2005 20:11	1.0						
004	309a004	X	c50			05-NOV-2005 20:39	1.0						
005	309a005	X	ib			05-NOV-2005 21:07	1.0						
006	309a006	ICAL	hex_5			05-NOV-2005 21:35	1.0					1	
007	309a007	ICAL	hex_10			05-NOV-2005 22:02	1.0					2	
008	309a008	ICAL	hex_25			05-NOV-2005 22:30	1.0					3	
009	309a009	ICAL	hex_50			05-NOV-2005 22:58	1.0					4	
010	309a010	ICAL	hex_75			05-NOV-2005 23:25	1.0					5	
011	309a011	ICAL	dsl_10			05-NOV-2005 23:53	1.0					6	
013	309a013	ICAL	dsl_250			06-NOV-2005 00:49	1.0					7	
014	309a014	ICAL	dsl_500			06-NOV-2005 01:17	1.0					8	
015	309a015	ICAL	dsl_1000			06-NOV-2005 01:45	1.0					9	
016	309a016	ICAL	dsl_2500			06-NOV-2005 02:12	1.0					10	
017	309a017	ICAL	dsl_5000			06-NOV-2005 02:40	1.0					11	
039	309a039	ICAL	dsl_100			06-NOV-2005 22:23	1.0					12	
040	309a040	ICV	dsl			06-NOV-2005 23:18	1.0		3			13	
041	309a041	ICAL	mo_50			06-NOV-2005 23:46	1.0					14	
042	309a042	ICAL	mo_250			07-NOV-2005 00:14	1.0					15	
043	309a043	ICAL	mo_500			07-NOV-2005 00:42	1.0					16	
044	309a044	ICAL	mo_1000			07-NOV-2005 01:10	1.0					17	
045	309a045	ICAL	mo_2500			07-NOV-2005 01:38	1.0					18	
046	309a046	ICAL	mo_5000			07-NOV-2005 02:06	1.0					19	

Stds used: 1=S1469 2=S1470 3=S1471 4=S1472 5=S1473 6=S1732 7=S1734 8=S1735 9=S1736 10=S1737 11=S1731 12=S1733 13=S1178 14=S693 15=S694 16=S695 17=S696 18=S697 19=S691

SEQUENCE SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116049801 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 03-FEB-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	034a001	X	primer			03-FEB-2006 14:01	1.0						
002	034a002	X	ib			03-FEB-2006 14:29	1.0						
003	034a003	CCV	dsl_250			03-FEB-2006 14:57	1.0		3			1	
004	034a004	X	ib			03-FEB-2006 15:25	1.0						
005	034a005	CCV	mo_500			03-FEB-2006 15:53	1.0	6	3			2	
006	034a006	?SAMPLE	184620-007			03-FEB-2006 16:21	1.0						
007	034a007	?SAMPLE	184620-008			03-FEB-2006 16:49	1.0						
008	034a008	?SAMPLE	184620-009			03-FEB-2006 17:17	1.0						
009	034a009	?SAMPLE	184620-010			03-FEB-2006 17:45	1.0						
010	034a010	X	ib			03-FEB-2006 18:13	1.0						
011	034a011	?SAMPLE	184620-006			03-FEB-2006 18:41	1.0						
012	034a012	?SAMPLE	184620-004			03-FEB-2006 19:09	1.0						
013	034a013	?SAMPLE	184620-005			03-FEB-2006 19:37	1.0						
014	034a014	X	ib			03-FEB-2006 20:05	1.0						
015	034a015	?SAMPLE	184620-001			03-FEB-2006 20:33	1.0						
016	034a016	?SAMPLE	184620-002			03-FEB-2006 21:01	1.0						
017	034a017	?SAMPLE	184620-003			03-FEB-2006 21:29	1.0						
018	034a018	X	ib			03-FEB-2006 21:57	1.0						
019	034a019	CCV	dsl_500			03-FEB-2006 22:25	1.0					3	
020	034a020	X	ib			03-FEB-2006 22:54	1.0						
021	034a021	X	ib			03-FEB-2006 23:22	1.0						
022	034a022	X	ib			03-FEB-2006 23:50	1.0						
023	034a023	ICAL	mo_50			04-FEB-2006 00:18	1.0					4	
024	034a024	ICAL	mo_250			04-FEB-2006 00:46	1.0					5	
025	034a025	ICAL	mo_500			04-FEB-2006 01:14	1.0					6	
026	034a026	ICAL	mo_1000			04-FEB-2006 01:42	1.0					7	
027	034a027	ICAL	mo_2500			04-FEB-2006 02:10	1.0					8	
028	034a028	ICAL	mo_5000			04-FEB-2006 02:39	1.0					9	
029	034a029	X	ib			04-FEB-2006 03:07	1.0						

Stds used: 1=S2505 2=S2577 3=S2504 4=S2118 5=S2119 6=S2120 7=S2121 8=S2122 9=S2117

SEQUENCE SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176085452 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 28-FEB-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	059a001	X	primer			28-FEB-2006 08:12	1.0							
002	059a002	X	primer			28-FEB-2006 11:01	1.0							
003	059a003	X	ib			28-FEB-2006 11:28	1.0							
004	059a004	CCV	S2662.dsl_50			28-FEB-2006 11:56	1.0							
005	059a005	CCV	mo_500			28-FEB-2006 12:23	1.0						1	
006	059a006	X	ccv			28-FEB-2006 14:08	1.0						1	
007	059a007	CCV	dsl_500			28-FEB-2006 16:04	1.0			3			2	
008	059a008	CCV	mo_500			28-FEB-2006 18:04	1.0	6		3			1	
009	059a009	X	ib			28-FEB-2006 22:27	1.0							
010	059a010	X	c 10-16			28-FEB-2006 22:54	20.0							
011	059a011	X	c 12-60			28-FEB-2006 23:21	1.0							
012	059a012	X	ib			01-MAR-2006 07:15	1.0							
013	059a013	ICAL	dsl_50			01-MAR-2006 07:43	1.0						3	
014	059a014	ICAL	dsl_100			01-MAR-2006 08:10	1.0						4	
015	059a015	ICAL	dsl_250			01-MAR-2006 08:37	1.0						5	
016	059a016	ICAL	dsl_500			01-MAR-2006 09:04	1.0						6	
017	059a017	ICAL	dsl_1000			01-MAR-2006 09:32	1.0						7	
018	059a018	ICAL	dsl_2500			01-MAR-2006 10:00	1.0						8	
019	059a019	ICAL	dsl_5000			01-MAR-2006 10:27	1.0						9	
020	059a020	X	ib			01-MAR-2006 10:54	1.0							
021	059a021	ICV	dsl_500			01-MAR-2006 11:22	1.0			3			10	
022	059a022	X	dsl_500			01-MAR-2006 11:49	1.0						10	
023	059a023	X	ib			01-MAR-2006 12:16	1.0							
024	059a024	ICAL	mo_50			01-MAR-2006 12:44	1.0						11	
025	059a025	ICAL	mo_250			01-MAR-2006 13:11	1.0						12	
026	059a026	ICAL	mo_500			01-MAR-2006 13:38	1.0						13	
027	059a027	ICAL	mo_1000			01-MAR-2006 14:06	1.0						14	
028	059a028	ICAL	mo_2500			01-MAR-2006 14:33	1.0						15	
029	059a029	ICAL	mo_5000			01-MAR-2006 15:01	1.0						16	
030	059a030	X	ib			01-MAR-2006 15:28	1.0							

Stds used: 1=S2741 2=S2662 3=S1732 4=S1733 5=S1734 6=S1735 7=S1736 8=S1737 9=S1731 10=S2708 11=S2118 12=S2119 13=S2120 14=S2121 15=S2122 16=S2117 17=S2694 18=S2695 19=S2696 20=S2697 21=S2698

SEQUENCE SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176085452 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 28-FEB-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC SPK uL	VL	pH	Stds Used	>LR
031	059a031	ICAL	hex_5			01-MAR-2006 15:55	1.0				17	
032	059a032	ICAL	hex_10			01-MAR-2006 16:23	1.0				18	
033	059a033	ICAL	hex_25			01-MAR-2006 16:50	1.0				19	
034	059a034	ICAL	hex_50			01-MAR-2006 17:17	1.0				20	
035	059a035	ICAL	hex_75			01-MAR-2006 17:44	1.0				21	
036	059a036	X	ib			01-MAR-2006 18:11	1.0					

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Stds used: 1=S2741 2=S2662 3=S1732 4=S1733 5=S1734 6=S1735 7=S1736 8=S1737 9=S1731 10=S2708 11=S2118 12=S2119 13=S2120 14=S2121 15=S2122 16=S2117 17=S2694 18=S2695 19=S2696 20=S2697 21=S2698

SEQUENCE SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176093018 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 05-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	064a001	X	primer			05-MAR-2006 14:18	1.0						
002	064a002	X	ib			05-MAR-2006 14:45	1.0						
003	064a003	CCV	dsl_500			05-MAR-2006 15:13	1.0	1.0			3	1	
004	064a004	CCV	mo_500			05-MAR-2006 15:40	1.0	1.0	5		3	2	
005	064a005	CCV	bunk_1250			05-MAR-2006 16:07	1.0	1.0			3	3	
006	064a006	CCV	mo_500			05-MAR-2006 17:21	1.0	1.0	4		3	4	
007	064a007	ICAL	mo_50			05-MAR-2006 18:11	1.0	1.0				5	
008	064a008	ICAL	mo_250			05-MAR-2006 18:38	1.0	1.0				6	
009	064a009	ICAL	mo_500			05-MAR-2006 19:05	1.0	1.0				7	
010	064a010	ICAL	mo_1000			05-MAR-2006 19:32	1.0	1.0				8	
011	064a011	ICAL	mo_2500			05-MAR-2006 20:00	1.0	1.0				9	
012	064a012	ICAL	mo_5000			05-MAR-2006 20:27	1.0	1.0				10	
013	064a013	X	ib			05-MAR-2006 20:54	1.0						
014	064a014	X	ib			05-MAR-2006 21:21	1.0						
015	064a015	CCV	dsl_1000			05-MAR-2006 21:48	1.0					11	105
016	064a016	CCV	mo_500			05-MAR-2006 22:16	1.0					4	
017	064a017	CCV	bunk_1250			05-MAR-2006 22:43	1.0					3	
018	064a018	X	xccv			05-MAR-2006 23:10	1.0					11	
019	064a019	BLANK	QC329822 S	110900	Water	05-MAR-2006 23:38	1.0						
020	064a020	BLANK	QC329951 S	110935	Soil	06-MAR-2006 00:05	1.0						
021	064a021	BLANK	QC330003 S	110946	Soil	06-MAR-2006 00:32	1.0						
022	064a022	LCS	QC329823 S	110900	Water	06-MAR-2006 00:59	1.0						
023	064a023	LCS	QC329952 S	110935	Soil	06-MAR-2006 01:27	1.0						
024	064a024	LCS	QC330004 S	110946	Soil	06-MAR-2006 01:55	1.0						
025	064a025	MS	QC329824	110900	Water	06-MAR-2006 02:22	1.0						
026	064a026	MSD	QC329825	110900	Water	06-MAR-2006 02:50	1.0						
027	064a027	MS	QC330005 S	110946	Soil	06-MAR-2006 03:17	2.0						
028	064a028	MSD	QC330006 S	110946	Soil	06-MAR-2006 03:44	2.0						
029	064a029	X	ib			06-MAR-2006 04:11	1.0						
030	064a030	CCV	dsl_250			06-MAR-2006 04:39	1.0					12	
031	064a031	CCV	mo_500			06-MAR-2006 05:06	1.0					4	

Stds used: 1=S2662 2=S2741 3=S2401 4=S2843 5=S2118 6=S2119 7=S2120 8=S2121 9=S2122 10=S2117 11=S2647 12=S2755

SEQUENCE SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176093018 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 05-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	064a032	CCV	bunk_1250			06-MAR-2006 05:33	1.0					3	
033	064a033	X	xccv			06-MAR-2006 06:00	1.0					12	
034	064a034	SAMPLE	185049-005	110845	Water	06-MAR-2006 06:28	1.0						
035	064a035	SAMPLE	185057-001	110845	Water	06-MAR-2006 06:55	1.0						
036	064a036	SAMPLE	185021-004	110845	Water	06-MAR-2006 07:33	1.0						
037	064a037	SAMPLE	185096-003	110851	Water	06-MAR-2006 08:01	1.0						
038	064a038	?SAMPLE	185095-003	110851		06-MAR-2006 08:28	1.0						
039	064a039	MSS	185082-015 S	110946	Soil	06-MAR-2006 08:56	2.0	0.1008	5		3		
040	064a040	?MS	QC329951	110935		06-MAR-2006 09:23	2.0						
041	064a041	?MSD	QC329952	110935		06-MAR-2006 09:50	2.0						
042	064a042	MS	QC329764	110886	Soil	06-MAR-2006 10:18	5.0						
043	064a043	?MSD	QC329764	110886		06-MAR-2006 10:45	5.0						
044	064a044	X	ib			06-MAR-2006 11:12	1.0						
045	064a045	X	ib			06-MAR-2006 11:40	1.0						
046	064a046	CCV	dsl_500			06-MAR-2006 12:07	1.0					2	106
047	064a047	CCV	mo_500			06-MAR-2006 12:35	1.0					4	
048	064a048	CCV	bunk_1250			06-MAR-2006 13:02	1.0					3	
049	064a049	X	xccv			06-MAR-2006 13:29	1.0					2	

Stds used: 1=S2662 2=S2741 3=S2401 4=S2843 5=S2118 6=S2119 7=S2120 8=S2121 9=S2122 10=S2117 11=S2647 12=S2755

SEQUENCE SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176098515 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 09-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	068a001	X	ib			09-MAR-2006 09:55	1.0					
002	068a002	?SAMPLE	185382-001			09-MAR-2006 10:22	10.0					
003	068a003	?SAMPLE	185382-002			09-MAR-2006 10:49	10.0					
004	068a004	?SAMPLE	185382-003			09-MAR-2006 11:17	10.0					
005	068a005	?SAMPLE	185382-004			09-MAR-2006 11:44	10.0					
006	068a006	?SAMPLE	185382-005			09-MAR-2006 12:12	10.0					
007	068a007	X	ib			09-MAR-2006 12:39	1.0					
008	068a008	X	mb fingerpri			09-MAR-2006 13:06	1.0					
009	068a009	CCV	jet_250			09-MAR-2006 13:34	1.0				1	
010	068a010	X	ib			09-MAR-2006 16:37	1.0					
011	068a011	CCV	dsl_500			09-MAR-2006 17:05	1.0	1.0		3	2	
012	068a012	CCV	mo_500			09-MAR-2006 17:32	1.0	1.0	2	3	3	
013	068a013	CCV	bunk_1250			09-MAR-2006 18:23	1.0	1.0		3	4	
014	068a014	X	ib			09-MAR-2006 19:15	1.0					
015	068a015	ICAL	hex_5			09-MAR-2006 19:42	1.0	1.0			5	
016	068a016	ICAL	hex_10			09-MAR-2006 20:09	1.0	1.0			6	
017	068a017	ICAL	hex_25			09-MAR-2006 20:37	1.0	1.0			7	
018	068a018	ICAL	hex_50			09-MAR-2006 21:04	1.0	1.0			8	
019	068a019	ICAL	hex_75			09-MAR-2006 21:31	1.0	1.0			9	
020	068a020	X	ib			09-MAR-2006 21:59	1.0					
021	068a021	CCV	dsl_1000			09-MAR-2006 22:26	1.0	1.0		3	10	
022	068a022	CCV	mo_500			09-MAR-2006 22:53	1.0	1.0	2	3	3	
023	068a023	X	dsl_1000			09-MAR-2006 23:20	1.0				10	
024	068a024	CCV	bunk_1250			09-MAR-2006 23:48	1.0	1.0		3	4	
025	068a025	SAMPLE	185247-003 S	111034	Water	10-MAR-2006 00:15	1.0	0.005		3		
026	068a026	SAMPLE	185271-008 S	111034	Water	10-MAR-2006 00:42	1.0	0.005		3		
027	068a027	SAMPLE	185334-001 S	111055	Water	10-MAR-2006 01:10	1.0	0.005		3		
028	068a028	SAMPLE	185271-009 S	111034	Water	10-MAR-2006 01:37	1.0	0.005		3		
029	068a029	SAMPLE	185271-010 S	111034	Water	10-MAR-2006 02:04	1.0	0.005		3		
030	068a030	SAMPLE	185350-001 S	111055	Water	10-MAR-2006 02:31	1.0	0.005		3		
031	068a031	SAMPLE	185333-014 S	111062	Soil	10-MAR-2006 02:58	1.0	0.1000		3		

Stds used: 1=S2432 2=S2871 3=S2741 4=S2872 5=S2694 6=S2695 7=S2696 8=S2697 9=S2698 10=S2885 11=S2755 12=S2843

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SEQUENCE SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176098515 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 09-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used >LR
032	068a032	SAMPLE	185247-005 S	111034	Water	10-MAR-2006 03:25	1.0	0.005	2	1	3	17:BUNKC:=50672.4
033	068a033	MS	QC330414 S	111050	Soil	10-MAR-2006 03:52	1.0	0.1009		1	3	3:BUNKC:=7224.34
034	068a034	MSD	QC330415 S	111050	Soil	10-MAR-2006 04:20	1.0	0.1001			3	1:BUNKC:=5003.11
035	068a035	CCV	dsl_250			10-MAR-2006 04:47	1.0	1.0			3	11
036	068a036	CCV	mo_500			10-MAR-2006 05:14	1.0	1.0	2		3	3
037	068a037	X	xccv			10-MAR-2006 05:42	1.0					11
038	068a038	CCV	bunk_1250			10-MAR-2006 06:09	1.0	1.0			3	4
039	068a039	SAMPLE	185333-022 S	111062	Soil	10-MAR-2006 06:36	1.0	0.1006			3	
040	068a040	SAMPLE	185333-023 S	111062	Soil	10-MAR-2006 07:03	1.0	0.1004			3	
041	068a041	SAMPLE	185211-001	111002	Water	10-MAR-2006 07:30	1.0	0.005			3	
042	068a042	SAMPLE	185211-002	111002	Water	10-MAR-2006 07:58	1.0	0.005			3	
043	068a043	SAMPLE	185229-030	111002	Water	10-MAR-2006 08:24	1.0	0.005		1	3	
044	068a044	SAMPLE	185229-031	111002	Water	10-MAR-2006 08:52	1.0	0.005			3	
045	068a045	SAMPLE	185229-033	111002	Water	10-MAR-2006 09:19	1.0	0.005			3	
046	068a046	SAMPLE	185279-001	111034	Water	10-MAR-2006 09:46	1.0	0.005	1		3	1:HXCS=104.~~20~~ 108
047	068a047	SAMPLE	185339-001	111055	Water	10-MAR-2006 10:13	1.0	0.005			3	
048	068a048	SAMPLE	185339-002	111055	Water	10-MAR-2006 10:40	5.0	0.005			3	
049	068a049	CCV	dsl_500			10-MAR-2006 11:08	1.0	1.0			3	2
050	068a050	CCV	mo_500			10-MAR-2006 11:36	1.0	1.0	2		3	12
051	068a051	X	dsl_500			10-MAR-2006 12:03	1.0					2
052	068a052	CCV	bunk_1250			10-MAR-2006 12:30	1.0	1.0			3	4

Stds used: 1=S2432 2=S2871 3=S2741 4=S2872 5=S2694 6=S2695 7=S2696 8=S2697 9=S2698 10=S2885 11=S2755 12=S2843

SEQUENCE SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166114247 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	079b001	X	primer			20-MAR-2006 08:07	1.0					
002	079b002	X	ib			20-MAR-2006 08:34	1.0					
003	079b003	CCV	dsl_500			20-MAR-2006 09:02	1.0	1.0		3	1	
004	079b004	CCV	mo_500			20-MAR-2006 11:26	1.0				2	
005	079b005	CCV	dsl_500			20-MAR-2006 11:53	1.0				1	
006	079b006	X	ib			20-MAR-2006 14:24	1.0					
007	079b007	ICAL	hex_5			20-MAR-2006 14:52	1.0	1.0			3	
008	079b008	ICAL	hex_10			20-MAR-2006 15:20	1.0	1.0			4	
009	079b009	ICAL	hex_25			20-MAR-2006 15:49	1.0	1.0			5	
010	079b010	ICAL	hex_50			20-MAR-2006 16:17	1.0	1.0			6	
011	079b011	ICAL	hex_75			20-MAR-2006 16:45	1.0	1.0			7	
012	079b012	CCV	dsl_1000			20-MAR-2006 17:14	1.0	1.0		3	8	
013	079b013	CCV	mo_500			20-MAR-2006 17:42	1.0	1.0		3	2	
014	079b014	SAMPLE	185385-001 S	111346	Water	20-MAR-2006 18:23	1.0	0.005		3		
015	079b015	SAMPLE	185385-002 S	111346	Water	20-MAR-2006 18:52	1.0	0.005		3		109
016	079b016	SAMPLE	185385-003 S	111346	Water	20-MAR-2006 19:20	1.0	0.005		3		
017	079b017	SAMPLE	185385-004 S	111346	Water	20-MAR-2006 19:48	1.0	0.005		3		
018	079b018	SAMPLE	185385-005 S	111346	Water	20-MAR-2006 20:16	1.0	0.005		3		
019	079b019	X	ib			20-MAR-2006 20:45	1.0					
020	079b020	SAMPLE	185385-006 S	111346	Water	20-MAR-2006 21:13	1.0	0.005		3		
021	079b021	SAMPLE	185385-007 S	111346	Water	20-MAR-2006 21:41	1.0	0.005		3		
022	079b022	SAMPLE	185385-008 S	111346	Water	20-MAR-2006 22:09	1.0	0.005		3		
023	079b023	SAMPLE	185385-009 S	111346	Water	20-MAR-2006 22:37	1.0	0.005		3		
024	079b024	SAMPLE	185385-011 S	111346	Water	20-MAR-2006 23:05	1.0	0.005		3		
025	079b025	X	ib			20-MAR-2006 23:33	1.0					
026	079b026	X	ib			21-MAR-2006 00:01	1.0					
027	079b027	CCV	dsl_250			21-MAR-2006 00:29	1.0	1.0		3	9	
028	079b028	CCV	mo_500			21-MAR-2006 00:57	1.0	1.0	3	3	2	
029	079b029	X	ccv			21-MAR-2006 01:25	1.0				2	
030	079b030	X	ccv			21-MAR-2006 01:52	1.0				9	
031	079b031	SAMPLE	185414-001 S	111437	Water	21-MAR-2006 02:20	1.0	0.005		3		

Stds used: 1=S2871 2=S2843 3=S2694 4=S2695 5=S2696 6=S2697 7=S2698 8=S2885 9=S2755

SEQUENCE SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166114247 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	079b032	SAMPLE	185525-004 S	111348	Water	21-MAR-2006 02:48	1.0	0.005		3		
033	079b033	SAMPLE	185525-001 S	111348	Water	21-MAR-2006 03:15	1.0	0.005		3		
034	079b034	SAMPLE	185525-005 S	111348	Water	21-MAR-2006 03:43	1.0	0.005		3		
035	079b035	SAMPLE	185525-008 S	111348	Water	21-MAR-2006 04:11	1.0	0.005		3		
036	079b036	SAMPLE	185525-011 S	111348	Water	21-MAR-2006 04:38	1.0	0.005		3		
037	079b037	SAMPLE	185525-007 S	111348	Water	21-MAR-2006 05:06	1.0	0.005		3		
038	079b038	SAMPLE	185525-010 S	111348	Water	21-MAR-2006 05:34	1.0	0.005		3		
039	079b039	SAMPLE	185525-012 S	111348	Water	21-MAR-2006 06:02	1.0	0.005		3		
040	079b040	X	ib			21-MAR-2006 06:30	1.0					
041	079b041	CCV	dsl_1000			21-MAR-2006 06:57	1.0	1.0	7	3	8	
042	079b042	CCV	mo_500			21-MAR-2006 07:25	1.0	1.0	4	3	2	
043	079b043	X	ccv			21-MAR-2006 07:53	1.0				2	
044	079b044	X	ccv			21-MAR-2006 08:20	1.0				8	

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Stds used: 1=S2871 2=S2843 3=S2694 4=S2695 5=S2696 6=S2697 7=S2698 8=S2885 9=S2755

SEQUENCE SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166115824 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 21-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	080b001	ICAL	dsl_10			21-MAR-2006 10:24	1.0				1	
002	080b002	X	ib			21-MAR-2006 11:50	1.0					
003	080b003	CCV	dsl_500			21-MAR-2006 12:18	1.0	1.0		3	2	
004	080b004	CCV	mo_500			21-MAR-2006 12:46	1.0	1.0	2	3	3	
005	080b005	X	ib			21-MAR-2006 14:24	1.0					
006	080b006	ICAL	mo_50			21-MAR-2006 14:52	1.0	1.0			4	
007	080b007	ICAL	mo_250			21-MAR-2006 15:20	1.0	1.0			5	
008	080b008	ICAL	mo_500			21-MAR-2006 15:49	1.0	1.0			6	
009	080b009	ICAL	mo_1000			21-MAR-2006 16:17	1.0	1.0			7	
010	080b010	ICAL	mo_2500			21-MAR-2006 16:46	1.0	1.0			8	
011	080b011	ICAL	mo_5000			21-MAR-2006 17:15	1.0	1.0			9	
012	080b012	X	ib			21-MAR-2006 17:52	1.0					
013	080b013	CCV	dsl_1000			21-MAR-2006 18:21	1.0	1.0		3	10	
014	080b014	X	mo_500			21-MAR-2006 18:49	1.0	1.0	3	3	3	
015	080b015	CCV	mo_500			21-MAR-2006 19:27	1.0	1.0	2	3	11	11
016	080b016	SAMPLE	185580-002	111477	Water	21-MAR-2006 21:34	1.0	0.005		3		
017	080b017	SAMPLE	185580-010	111477	Water	21-MAR-2006 22:02	1.0	0.005		3		
018	080b018	SAMPLE	185457-011 S	111478	Water	21-MAR-2006 22:30	1.0	0.005		3		
019	080b019	SAMPLE	185457-012 S	111478	Water	21-MAR-2006 22:58	1.0	0.005		3		
020	080b020	SAMPLE	185457-013 S	111478	Water	21-MAR-2006 23:26	1.0	0.005		3		
021	080b021	SAMPLE	185457-014 S	111478	Water	21-MAR-2006 23:54	1.0	0.005		3		
022	080b022	MSS	185457-016 S	111478	Water	22-MAR-2006 00:22	1.0	0.005	8	3		
023	080b023	SAMPLE	185457-017 S	111478	Water	22-MAR-2006 00:50	1.0	0.005		3		
024	080b024	SAMPLE	185457-019 S	111478	Water	22-MAR-2006 01:18	1.0	0.005		3		
025	080b025	MSS	185457-020 S	111478	Water	22-MAR-2006 01:46	1.0	0.005	8	3		
026	080b026	X	ib			22-MAR-2006 02:14	1.0					
027	080b027	CCV	dsl_250			22-MAR-2006 02:41	1.0	1.0		3	12	
028	080b028	CCV	mo_500			22-MAR-2006 03:09	1.0	1.0	2	3	13	
029	080b029	X	ccv			22-MAR-2006 03:37	1.0				12	
030	080b030	X	ccv			22-MAR-2006 04:05	1.0				13	

Stds used: 1=S2964 2=S2871 3=S2843 4=S2118 5=S2119 6=S2120 7=S2121 8=S2122 9=S2117 10=S2885 11=S2972 12=S2755 13=S2971

SEQUENCE SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166117087 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	081b001	X	primer			22-MAR-2006 07:27	1.0					
002	081b002	X	ib			22-MAR-2006 07:55	1.0					
003	081b003	CCV	dsl_500			22-MAR-2006 08:27	1.0	1.0	6	3	1	
004	081b004	CCV	mo_500			22-MAR-2006 08:55	1.0	1.0	2	3	2	
005	081b005	X	ib			22-MAR-2006 12:12	1.0					
006	081b006	ICAL	dsl_10			22-MAR-2006 12:39	1.0	1.0			3	
007	081b007	ICAL	dsl_100			22-MAR-2006 13:07	1.0	1.0			4	
008	081b008	ICAL	dsl_250			22-MAR-2006 13:34	1.0	1.0			5	
009	081b009	ICAL	dsl_500			22-MAR-2006 14:02	1.0	1.0			6	
010	081b010	ICAL	dsl_1000			22-MAR-2006 14:30	1.0	1.0			7	
011	081b011	ICAL	dsl_2500			22-MAR-2006 14:57	1.0	1.0			8	
012	081b012	ICAL	dsl_5000			22-MAR-2006 15:25	1.0	1.0			9	
013	081b013	X	ib			22-MAR-2006 15:53	1.0					
014	081b014	ICV	dsl_500			22-MAR-2006 16:21	1.0	1.0		3	10	
015	081b015	X	ib			22-MAR-2006 16:49	1.0					112
016	081b016	CCV	dsl_500			22-MAR-2006 17:17	1.0	1.0		3	1	
017	081b017	CCV	mo_500			22-MAR-2006 17:45	1.0	1.0	2	3	2	
018	081b018	CCV	ker_250			22-MAR-2006 18:43	1.0	1.0		3	11	
019	081b019	LCS	QC332247 S	111483	Soil	22-MAR-2006 19:18	1.0	0.09921		3		
020	081b020	BLANK	QC332246 S	111483	Soil	22-MAR-2006 19:45	1.0	0.1007	7	3		
021	081b021	MSS	185620-003 S	111483	Soil	22-MAR-2006 20:13	1.0	0.1001	9	3		
022	081b022	MS	QC332248 S	111483	Soil	22-MAR-2006 20:41	1.0	0.1006		3		
023	081b023	MSD	QC332249 S	111483	Soil	22-MAR-2006 21:09	1.0	0.1004		3		
024	081b024	X	ib			22-MAR-2006 21:37	1.0					
025	081b025	SAMPLE	185463-003 S	111513	Water	22-MAR-2006 22:05	1.0	0.005		3		
026	081b026	SAMPLE	185463-004 S	111513	Water	22-MAR-2006 22:33	1.0	0.005		3		
027	081b027	SAMPLE	185639-002	111483	Soil	22-MAR-2006 23:01	1.0	0.1002		3		
028	081b028	SAMPLE	185640-001	111483	Soil	22-MAR-2006 23:29	3.0	0.09974	3	3		19:BUNKC:=35667.6
029	081b029	SAMPLE	185640-002	111483	Soil	22-MAR-2006 23:57	20.0	0.2001	2	3		12:BUNKC:=30917.1
030	081b030	X	ib			23-MAR-2006 00:24	1.0					
031	081b031	CCV	dsl_1000			23-MAR-2006 00:52	1.0	1.0		3	12	

Stds used: 1=S2871 2=S2971 3=S2961 4=S2938 5=S2939 6=S2940 7=S2941 8=S2942 9=S2936 10=S2708 11=S2806 12=S2885

SEQUENCE SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166117087 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	081b032	CCV	mo_500			23-MAR-2006 01:20	1.0	1.0	2		3	2	
033	081b033	X	ccv			23-MAR-2006 01:48	1.0					12	
034	081b034	CCV	ker_250			23-MAR-2006 02:16	1.0	1.0			3	11	

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Stds used: 1=S2871 2=S2971 3=S2961 4=S2938 5=S2939 6=S2940 7=S2941 8=S2942 9=S2936 10=S2708 11=S2806 12=S2885

SEQUENCE SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166123373 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 26-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	085b001	X	primer			26-MAR-2006 16:13	1.0					
002	085b002	X	ib			26-MAR-2006 16:41	1.0					
003	085b003	CCV	dsl_500			26-MAR-2006 17:08	1.0	1.0		3	1	
004	085b004	CCV	mo_500			26-MAR-2006 17:35	1.0	1.0	2	3	2	
005	085b005	SAMPLE	185558-001 S	111662	Water	26-MAR-2006 18:35	1.0	0.005		3		
006	085b006	SAMPLE	185558-002 S	111662	Water	26-MAR-2006 19:03	1.0	0.005		3		
007	085b007	SAMPLE	185558-003 S	111662	Water	26-MAR-2006 19:31	1.0	0.005		3		
008	085b008	SAMPLE	185558-004 S	111662	Water	26-MAR-2006 19:58	1.0	0.005		3		
009	085b009	SAMPLE	185558-005 S	111662	Water	26-MAR-2006 20:26	1.0	0.005		3		
010	085b010	SAMPLE	185558-006 S	111662	Water	26-MAR-2006 20:54	1.0	0.005		3		
011	085b011	SAMPLE	185558-007 S	111662	Water	26-MAR-2006 21:22	1.0	0.005		3		
012	085b012	SAMPLE	185558-008 S	111662	Water	26-MAR-2006 21:50	1.0	0.005		3		
013	085b013	SAMPLE	185558-009 S	111662	Water	26-MAR-2006 22:18	1.0	0.005		3		
014	085b014	SAMPLE	185558-011 S	111662	Water	26-MAR-2006 22:46	1.0	0.005		3		
015	085b015	X	ib			26-MAR-2006 23:14	1.0					114
016	085b016	CCV	dsl_1000			26-MAR-2006 23:41	1.0	1.0		3	3	
017	085b017	CCV	mo_500			27-MAR-2006 00:09	1.0	1.0	2	3	2	
018	085b018	X	ccv			27-MAR-2006 00:37	1.0				3	
019	085b019	SAMPLE	185562-003 S	111685	Water	27-MAR-2006 01:05	1.0	0.005		3		
020	085b020	SAMPLE	185558-022 S	111685	Water	27-MAR-2006 01:33	1.0	0.005		3		
021	085b021	SAMPLE	185558-023 S	111685	Water	27-MAR-2006 02:01	1.0	0.005		3		
022	085b022	SAMPLE	185558-024 S	111685	Water	27-MAR-2006 02:28	1.0	0.005		3		
023	085b023	SAMPLE	185558-025 S	111685	Water	27-MAR-2006 02:56	1.0	0.005		3		
024	085b024	SAMPLE	185558-026 S	111685	Water	27-MAR-2006 03:24	1.0	0.005		3		
025	085b025	SAMPLE	185558-027 S	111685	Water	27-MAR-2006 03:51	1.0	0.005		3		
026	085b026	SAMPLE	185695-001	111632	Soil	27-MAR-2006 04:19	2.0	0.1003		3		1:BUNKC:=5098.84
027	085b027	SAMPLE	185695-002	111632	Soil	27-MAR-2006 04:47	3.0	0.0999		3		1:BUNKC:=6432.21
028	085b028	SAMPLE	185695-003	111632	Soil	27-MAR-2006 05:14	10.0	0.09988		3		3:BUNKC:=11311.3
029	085b029	X	ib			27-MAR-2006 05:42	1.0					
030	085b030	CCV	dsl_500			27-MAR-2006 06:09	1.0	1.0		3	1	

Stds used: 1=S2871 2=S2971 3=S2885 4=S2755
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166123373 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 26-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
031	085b031	CCV	mo_500			27-MAR-2006 06:37	1.0	1.0	2	3	2	
032	085b032	X	ccv			27-MAR-2006 07:05	1.0				1	
033	085b033	BS	QC333045 S	111684	Water	27-MAR-2006 07:57	1.0	0.005		3		
034	085b034	BSD	QC333046 S	111684	Water	27-MAR-2006 08:25	1.0	0.005		3		
035	085b035	BLANK	QC333044 S	111684	Water	27-MAR-2006 08:53	1.0	0.005	8	3		
036	085b036	SAMPLE	185672-001 S	111684	Water	27-MAR-2006 09:21	1.0	0.005	2	3	sh	
037	085b037	SAMPLE	185672-002 S	111684	Water	27-MAR-2006 09:49	1.0	0.005	2	3	sh	
038	085b038	SAMPLE	185672-003 S	111684	Water	27-MAR-2006 10:16	1.0	0.005	2	3	sh	
039	085b039	SAMPLE	185672-004 S	111684	Water	27-MAR-2006 10:44	1.0	0.005	2	3	sh	
040	085b040	X	ib			27-MAR-2006 11:12	1.0					
041	085b041	CCV	dsl_1000			27-MAR-2006 11:41	1.0	1.0		3	3	
042	085b042	CCV	mo_500			27-MAR-2006 12:08	1.0	1.0	2	3	2	
043	085b043	SAMPLE	185749-001	111632	Soil	27-MAR-2006 12:43	5.0	0.09905	1	3		1:BUNKC:=7070.75
044	085b044	X	ib			27-MAR-2006 14:21	1.0					
045	085b045	LCS	QC333051 S	111686	Water	27-MAR-2006 14:49	1.0	0.005		3		115
046	085b046	BLANK	QC333050 S	111686	Water	27-MAR-2006 15:16	1.0	0.005	8	3		
047	085b047	MS	QC333052 S	111686	Water	27-MAR-2006 15:44	1.0	0.005		3		
048	085b048	MSD	QC333053 S	111686	Water	27-MAR-2006 16:12	1.0	0.005		3		
049	085b049	MSS	185586-015 S	111686	Water	27-MAR-2006 16:54	1.0	0.005	8	3		
050	085b050	SAMPLE	185586-016 S	111686	Water	27-MAR-2006 17:22	1.0	0.005		3		
051	085b051	SAMPLE	185586-017 S	111686	Water	27-MAR-2006 17:49	1.0	0.005		3		
052	085b052	SAMPLE	185586-018 S	111686	Water	27-MAR-2006 18:17	1.0	0.005		3		
053	085b053	SAMPLE	185586-019 S	111686	Water	27-MAR-2006 18:45	1.0	0.005		3		
054	085b054	CCV	dsl_250			27-MAR-2006 19:12	1.0	1.0		3	4	
055	085b055	CCV	mo_500			27-MAR-2006 19:40	1.0	1.0	2	3	2	
056	085b056	SAMPLE	185586-008 S	111685	Water	27-MAR-2006 20:11	1.0	0.005		3		
057	085b057	SAMPLE	185586-009 S	111685	Water	27-MAR-2006 20:39	1.0	0.005		3		
058	085b058	SAMPLE	185586-010 S	111685	Water	27-MAR-2006 21:06	1.0	0.005		3		
059	085b059	SAMPLE	185586-011 S	111685	Water	27-MAR-2006 21:34	1.0	0.005		3		
060	085b060	X	ib			27-MAR-2006 22:02	1.0					

Stds used: 1=S2871 2=S2971 3=S2885 4=S2755
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166123373 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 26-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
061	085b061	BS	QC333085 S	111695	Water	27-MAR-2006 22:30	1.0	0.005		3		
062	085b062	BSD	QC333086 S	111695	Water	27-MAR-2006 22:58	1.0	0.005		3		
063	085b063	BLANK	QC333084 S	111695	Water	27-MAR-2006 23:25	1.0	0.005		3		
064	085b064	SAMPLE	185602-016	111695	Water	27-MAR-2006 23:53	1.0	0.005		3		
065	085b065	SAMPLE	185602-020	111695	Water	28-MAR-2006 00:21	1.0	0.005		3		
066	085b066	SAMPLE	185602-024	111695	Water	28-MAR-2006 00:49	1.0	0.005		3		
067	085b067	X	dsl_250			28-MAR-2006 01:17	1.0	1.0	7	3	4	
068	085b068	CCV	mo_500			28-MAR-2006 01:45	1.0	1.0	2	3	2	
069	085b069	CCV	dsl_250			28-MAR-2006 02:13	1.0	1.0		3	4	
070	085b070	X	ccv			28-MAR-2006 02:41	1.0				2	
071	085b071	BS	QC333082 S	111694	Water	28-MAR-2006 03:09	1.0	0.005		3		
072	085b072	BSD	QC333083 S	111694	Water	28-MAR-2006 03:37	1.0	0.005		3		
073	085b073	BLANK	QC333081 S	111694	Water	28-MAR-2006 04:05	1.0	0.005	8	3		
074	085b074	SAMPLE	185602-028	111695	Water	28-MAR-2006 04:33	1.0	0.005		3		
075	085b075	SAMPLE	185703-001 S	111694	Water	28-MAR-2006 05:01	1.0	0.005		3		
076	085b076	SAMPLE	185703-002 S	111694	Water	28-MAR-2006 05:29	1.0	0.005		3		
077	085b077	SAMPLE	185703-003 S	111694	Water	28-MAR-2006 05:57	1.0	0.005		3		
078	085b078	X	ib			28-MAR-2006 06:25	1.0					
079	085b079	CCV	dsl_500			28-MAR-2006 06:53	1.0	1.0		3	1	
080	085b080	CCV	mo_500			28-MAR-2006 07:21	1.0	1.0	2	3	2	
081	085b081	X	ccv			28-MAR-2006 07:49	1.0				1	
082	085b082	X	ccv			28-MAR-2006 08:17	1.0				2	
083	085b083	MSS	185761-001 S	111718	Soil	28-MAR-2006 09:13	1.0	0.1003	10	3		
084	085b084	CCV	dsl_1000			28-MAR-2006 10:27	1.0	1.0		3	3	
085	085b085	CCV	mo_500			28-MAR-2006 10:54	1.0	1.0	2	3	2	
086	085b086	X	tc			28-MAR-2006 13:35	1.0					
087	085b087	X	tc			28-MAR-2006 14:02	1.0					
088	085b088	X	tc			28-MAR-2006 14:30	1.0					

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Stds used: 1=S2871 2=S2971 3=S2885 4=S2755
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116126166 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 28-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	087a001	X	primer			28-MAR-2006 14:46	1.0						
002	087a002	X	ib			28-MAR-2006 15:14	1.0						
003	087a003	CCV	mo_500			28-MAR-2006 15:43	1.0	1.0			3	1	
004	087a004	CCV	dsl_1000			28-MAR-2006 16:10	1.0	1.0			3	2	
005	087a005	SAMPLE	185761-003 S	111718	Soil	28-MAR-2006 17:19	1.0	0.1005		1	3		
006	087a006	SAMPLE	185761-004 S	111718	Soil	28-MAR-2006 17:47	1.0	0.1001			3		
007	087a007	SAMPLE	185786-001 S	111684	Water	28-MAR-2006 18:15	1.0	0.005			3		
008	087a008	SAMPLE	185786-002 S	111684	Water	28-MAR-2006 18:43	1.0	0.005			3		
009	087a009	SAMPLE	185681-004 S	111632	Miscel	28-MAR-2006 19:11	3.0	0.1007	2	1	3		14:BUNKC:=32952.6
010	087a010	X	ib			28-MAR-2006 19:39	1.0						
011	087a011	SAMPLE	185622-009 S	111728	Water	28-MAR-2006 20:31	1.0	0.005			3		
012	087a012	SAMPLE	185622-010 S	111728	Water	28-MAR-2006 20:59	1.0	0.005			3		
013	087a013	SAMPLE	185622-011 S	111728	Water	28-MAR-2006 21:27	1.0	0.005			3		
014	087a014	SAMPLE	185622-012 S	111728	Water	28-MAR-2006 21:55	1.0	0.005			3		
015	087a015	SAMPLE	185622-013 S	111728	Water	28-MAR-2006 22:23	1.0	0.005			3		
016	087a016	X	ib			28-MAR-2006 22:51	1.0						
017	087a017	CCV	mo_500			28-MAR-2006 23:19	1.0	1.0			3	1	
018	087a018	CCV	dsl_500			28-MAR-2006 23:47	1.0	1.0			3	3	
019	087a019	X	ccv			29-MAR-2006 00:15	1.0					1	
020	087a020	X	ccv			29-MAR-2006 00:44	1.0					3	
021	087a021	SAMPLE	185622-014 S	111728	Water	29-MAR-2006 01:12	1.0	0.005			3		
022	087a022	SAMPLE	185622-015 S	111728	Water	29-MAR-2006 01:40	1.0	0.005			3		
023	087a023	SAMPLE	185622-016 S	111728	Water	29-MAR-2006 02:08	1.0	0.005			3		
024	087a024	SAMPLE	185622-020 S	111728	Water	29-MAR-2006 02:36	1.0	0.005			3		
025	087a025	SAMPLE	185622-021 S	111728	Water	29-MAR-2006 03:04	1.0	0.005		1	3		
026	087a026	X	ib			29-MAR-2006 03:31	1.0						
027	087a027	CCV	mo_500			29-MAR-2006 03:59	1.0	1.0			3	1	
028	087a028	CCV	dsl_1000			29-MAR-2006 04:27	1.0	1.0			3	2	
029	087a029	X	ccv			29-MAR-2006 04:55	1.0					1	
030	087a030	X	ccv			29-MAR-2006 05:23	1.0					2	

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Stds used: 1=S2971 2=S2885 3=S2871

SEQUENCE SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176126174 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 28-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	087a001	X	Primer			28-MAR-2006 14:54	1.0					
002	087a002	X	ib			28-MAR-2006 15:21	1.0					
003	087a003	CCV	mo_500			28-MAR-2006 15:49	1.0	1.0		3	1	
004	087a004	CCV	dsl_250			28-MAR-2006 16:16	1.0	1.0		3	2	
005	087a005	SAMPLE	185797-001 S	111718	Soil	28-MAR-2006 17:10	1.0	0.0999		3		
006	087a006	SAMPLE	185797-002 S	111718	Soil	28-MAR-2006 17:38	1.0	0.09982		3		
007	087a007	SAMPLE	185622-030 S	111695	Water	28-MAR-2006 18:05	1.0	0.005		3		
008	087a008	SAMPLE	185622-036 S	111695	Water	28-MAR-2006 18:33	1.0	0.005		3		
009	087a009	SAMPLE	185622-037 S	111695	Water	28-MAR-2006 19:00	1.0	0.005		3		
010	087a010	SAMPLE	185745-010	111632	Soil	28-MAR-2006 19:27	5.0	0.1006		3		
011	087a011	X	ib			28-MAR-2006 19:54	1.0					
012	087a012	SAMPLE	185638-001 S	111695	Water	28-MAR-2006 20:22	1.0	0.005		3		
013	087a013	SAMPLE	185638-002 S	111695	Water	28-MAR-2006 20:49	1.0	0.005		3		
014	087a014	SAMPLE	185638-003 S	111695	Water	28-MAR-2006 21:16	1.0	0.005		3		
015	087a015	SAMPLE	185745-006	111632	Soil	28-MAR-2006 21:44	1.0	0.09964		3		118
016	087a016	X	ib			28-MAR-2006 22:11	1.0					
017	087a017	CCV	mo_500			28-MAR-2006 22:39	1.0	1.0		3	1	
018	087a018	CCV	dsl_500			28-MAR-2006 23:06	1.0	1.0		3	3	
019	087a019	X	ccv			28-MAR-2006 23:33	1.0				1	
020	087a020	X	ccv			29-MAR-2006 00:01	1.0				3	
021	087a021	SAMPLE	185622-025 S	111728	Water	29-MAR-2006 00:28	1.0	0.005		3		
022	087a022	SAMPLE	185622-026 S	111728	Water	29-MAR-2006 00:55	1.0	0.005		3		
023	087a023	SAMPLE	185622-027 S	111728	Water	29-MAR-2006 01:23	1.0	0.005		3		
024	087a024	SAMPLE	185622-029 S	111728	Water	29-MAR-2006 01:50	1.0	0.005		3		
025	087a025	SAMPLE	185622-031 S	111728	Water	29-MAR-2006 02:18	1.0	0.005		3		
026	087a026	SAMPLE	185751-001	111728	Water	29-MAR-2006 02:45	3.0	0.005		3		
027	087a027	X	ib			29-MAR-2006 03:12	1.0					
028	087a028	CCV	mo_500			29-MAR-2006 03:39	1.0	1.0	2	3	1	
029	087a029	CCV	dsl_250			29-MAR-2006 04:06	1.0	1.0		3	2	
030	087a030	X	ccv			29-MAR-2006 04:33	1.0				1	
031	087a031	X	ccv			29-MAR-2006 05:01	1.0				2	

Stds used: 1=S2971 2=S2755 3=S2871

SEQUENCE SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116127194 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 29-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	088a001	X	primer			29-MAR-2006 07:54	1.0						
002	088a002	X	ib			29-MAR-2006 08:22	1.0						
003	088a003	CCV	mo_500			29-MAR-2006 08:50	1.0	1.0			3	1	
004	088a004	CCV	dsl_500			29-MAR-2006 09:18	1.0	1.0			3	2	
005	088a005	SAMPLE	185622-021 S	111728	Water	29-MAR-2006 10:12	1.0	0.005		1	3		
006	088a006	SAMPLE	185638-004 S	111695	Water	29-MAR-2006 10:40	1.0	0.005			3		
007	088a007	SAMPLE	185638-005 S	111695	Water	29-MAR-2006 11:08	1.0	0.005			3		
008	088a008	SAMPLE	185829-001	111785	Water	29-MAR-2006 11:36	1.0	0.005			3		
009	088a009	SAMPLE	185829-002	111785	Water	29-MAR-2006 12:04	1.0	0.005		1	3		
010	088a010	SAMPLE	185829-003	111785	Water	29-MAR-2006 12:32	1.0	0.005			3		
011	088a011	SAMPLE	185638-007 S	111695	Water	29-MAR-2006 13:00	1.0	0.005			3		
012	088a012	SAMPLE	185638-006 S	111695	Water	29-MAR-2006 13:28	1.0	0.005			3		
013	088a013	SAMPLE	185622-021 S	111728	Water	29-MAR-2006 13:56	1.0	0.005			3		
014	088a014	CCV	mo_500			29-MAR-2006 14:25	1.0	1.0			3	1	
015	088a015	CCV	dsl_1000			29-MAR-2006 14:53	1.0	1.0			3	3	
016	088a016	SAMPLE	185645-001 S	111782	Water	29-MAR-2006 16:01	1.0	0.005			3		
017	088a017	SAMPLE	185645-005 S	111782	Water	29-MAR-2006 16:28	1.0	0.005			3		
018	088a018	SAMPLE	185645-004 S	111782	Water	29-MAR-2006 16:56	1.0	0.005			3		
019	088a019	SAMPLE	185645-003 S	111782	Water	29-MAR-2006 17:24	1.0	0.005			3		
020	088a020	SAMPLE	185645-002 S	111782	Water	29-MAR-2006 17:52	1.0	0.005	1		3		14:JP8:10=32715.3
021	088a021	X	ib			29-MAR-2006 18:20	1.0						
022	088a022	SAMPLE	185761-002 S	111718	Soil	29-MAR-2006 18:48	1.0	0.09907			3		
023	088a023	SAMPLE	185761-003 S	111718	Soil	29-MAR-2006 19:16	1.0	0.1005		1	3		
024	088a024	SAMPLE	185681-004 S	111632	Miscel	29-MAR-2006 19:44	20.0	0.1007			3		2:BUNKC:=5678.94
025	088a025	SAMPLE	185644-001	111782	Water	29-MAR-2006 20:12	3.0	0.005208			3		
026	088a026	SAMPLE	185648-001	111782	Water	29-MAR-2006 20:40	2.0	0.005			3		
027	088a027	X	ib			29-MAR-2006 21:07	1.0						
028	088a028	CCV	mo_500			29-MAR-2006 21:35	1.0	1.0	1		3	1	
029	088a029	CCV	dsl_250			29-MAR-2006 22:03	1.0	1.0			3	4	
030	088a030	CCV	mo_500			29-MAR-2006 22:31	1.0					1	
031	088a031	X	ccv			29-MAR-2006 22:59	1.0					4	

Stds used: 1=S2971 2=S2871 3=S2885 4=S2755

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SEQUENCE SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176127175 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 29-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	088a001	X	Primer			29-MAR-2006 07:35	1.0						
002	088a002	X	ib			29-MAR-2006 08:02	1.0						
003	088a003	CCV	mo_500			29-MAR-2006 08:30	1.0	1.0			3	1	
004	088a004	CCV	dsl_500			29-MAR-2006 08:57	1.0	1.0			3	2	
005	088a005	BS	QC333213 S	111728	Water	29-MAR-2006 09:42	1.0	0.005			3		
006	088a006	BSD	QC333214 S	111728	Water	29-MAR-2006 10:10	1.0	0.005			3		
007	088a007	BLANK	QC333212 S	111728	Water	29-MAR-2006 10:37	1.0	0.005			3		
010	088a010	SAMPLE	185622-023 S	111728	Water	29-MAR-2006 11:05	1.0	0.005			3		
011	088a011	SAMPLE	185622-021	111728	Water	29-MAR-2006 11:32	1.0	0.005			3		
012	088a012	BS	QC333439	111785	Water	29-MAR-2006 11:59	1.0	0.005			3		
013	088a013	BSD	QC333440	111785	Water	29-MAR-2006 12:27	1.0	0.005			3		
014	088a014	BLANK	QC333438	111785	Water	29-MAR-2006 12:54	1.0	0.005	7		3		
015	088a015	SAMPLE	185829-002	111785	Water	29-MAR-2006 13:22	2.0	0.005			3		
016	088a016	SAMPLE	185622-022 S	111728	Water	29-MAR-2006 13:49	1.0	0.005			3		
017	088a017	CCV	mo_500			29-MAR-2006 14:16	1.0	1.0			3	1	120
018	088a018	CCV	dsl_1000			29-MAR-2006 14:44	1.0	1.0			3	3	
019	088a019	BS	QC333430 S	111782	Water	29-MAR-2006 15:17	1.0	0.005			3		
020	088a020	X	QC333431 S	111782	Water	29-MAR-2006 15:44	1.0	0.005			3		
021	088a021	BLANK	QC333429 S	111782	Water	29-MAR-2006 16:12	1.0	0.005	7		3		
022	088a022	SAMPLE	185770-001 S	111782	Water	29-MAR-2006 16:46	1.0	0.005			3		
023	088a023	SAMPLE	185770-002 S	111782	Water	29-MAR-2006 17:13	1.0	0.005			3		
024	088a024	SAMPLE	185770-003 S	111782	Water	29-MAR-2006 17:40	1.0	0.005			3		
025	088a025	SAMPLE	185770-004 S	111782	Water	29-MAR-2006 18:07	1.0	0.005			3		
026	088a026	SAMPLE	185770-005 S	111782	Water	29-MAR-2006 18:34	1.0	0.005			3		
027	088a027	SAMPLE	185770-006 S	111782	Water	29-MAR-2006 19:01	1.0	0.005			3		
028	088a028	SAMPLE	185762-001 S	111718	Soil	29-MAR-2006 19:29	5.0	0.1002	2	1	3	16:BUNKC:=37376.8	
029	088a029	X	ib			29-MAR-2006 19:56	1.0						
030	088a030	CCV	mo_500			29-MAR-2006 20:23	1.0	1.0			3	1	
031	088a031	CCV	dsl_250			29-MAR-2006 20:50	1.0	1.0			3	4	
032	088a032	X	ccv			29-MAR-2006 21:18	1.0					1	
033	088a033	X	ccv			29-MAR-2006 21:45	1.0					4	

Stds used: 1=S2971 2=S2871 3=S2885 4=S2755

SEQUENCE SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176127175 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 29-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
034	088a034	SAMPLE	185762-004 S	111718	Soil	29-MAR-2006 22:13	1.0	0.1003		3		
035	088a035	SAMPLE	185762-005 S	111718	Soil	29-MAR-2006 22:40	1.0	0.1006		3		
036	088a036	SAMPLE	185762-002 S	111718	Soil	29-MAR-2006 23:07	1.0	0.09934	1	3	12:BUNKC:=15940.9	
037	088a037	SAMPLE	185762-003 S	111718	Soil	29-MAR-2006 23:34	1.0	0.1007	2	3	16:BUNKC:=21921.4	
038	088a038	X	ib			30-MAR-2006 00:01	1.0					
039	088a039	SAMPLE	185786-003 S	111684	Water	30-MAR-2006 00:29	1.0	0.005		3		
040	088a040	SAMPLE	185786-004 S	111684	Water	30-MAR-2006 00:56	1.0	0.005		3		
041	088a041	SAMPLE	185786-006 S	111684	Water	30-MAR-2006 01:23	1.0	0.005	1	3	10:JP8:10=10987.2	
042	088a042	SAMPLE	185786-007 S	111684	Water	30-MAR-2006 01:50	1.0	0.005	1	3	10:JP8:10=11993.1	
043	088a043	SAMPLE	185786-008 S	111684	Water	30-MAR-2006 02:17	1.0	0.005		3		
044	088a044	X	ib			30-MAR-2006 02:45	1.0					
045	088a045	CCV	mo_500			30-MAR-2006 03:12	1.0	1.0		3	1	
046	088a046	CCV	dsl_500			30-MAR-2006 03:39	1.0	1.0		3	2	
047	088a047	X	ccv			30-MAR-2006 04:06	1.0				1	
048	088a048	X	ccv			30-MAR-2006 04:33	1.0				2	

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Stds used: 1=S2971 2=S2871 3=S2885 4=S2755

SEQUENCE SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116128618 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 30-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	089a001	X	primer			30-MAR-2006 07:38	1.0					
002	089a002	X	ib			30-MAR-2006 08:06	1.0					
003	089a003	X	mo_500			30-MAR-2006 08:35	1.0	1.0	1	3	1	
004	089a004	CCV	dsl_500			30-MAR-2006 09:03	1.0	1.0		3	2	
005	089a005	CCV	mo_500			30-MAR-2006 09:55	1.0	1.0	1	3	1	
006	089a006	X	ib			30-MAR-2006 10:28	1.0					
007	089a007	SAMPLE	185854-001	111828	Water	30-MAR-2006 10:56	1.0	0.005		3		
008	089a008	SAMPLE	185854-002	111828	Water	30-MAR-2006 11:24	1.0	0.005		3		
009	089a009	SAMPLE	185854-004	111836	Soil	30-MAR-2006 11:52	50.0	0.09966		3	2:BUNKC:=5850.69	
010	089a010	BS	QC333430 S	111782	Water	30-MAR-2006 12:20	1.0	0.005		3		
011	089a011	BSD	QC333431 S	111782	Water	30-MAR-2006 12:48	1.0	0.005		3		
012	089a012	BS	QC333611 S	111828	Water	30-MAR-2006 13:16	1.0	0.005		3		
013	089a013	BSD	QC333612 S	111828	Water	30-MAR-2006 13:44	1.0	0.005		3		
014	089a014	BLANK	QC333610 S	111828	Water	30-MAR-2006 14:12	1.0	0.005	11	3		
015	089a015	SAMPLE	185622-024 S	111728	Water	30-MAR-2006 14:40	1.0	0.005		3		122
016	089a016	CCV	mo_500			30-MAR-2006 15:08	1.0	1.0	3	3	1	
017	089a017	CCV	dsl_1000			30-MAR-2006 15:37	1.0	1.0		3	3	
018	089a018	CCV	mo_500			30-MAR-2006 17:34	1.0	1.0		3	1	
019	089a019	CCV	dsl_1000			30-MAR-2006 18:02	1.0	1.0		3	3	
020	089a020	X	ib			30-MAR-2006 19:59	1.0					
021	089a021	ICAL	hex_5			30-MAR-2006 20:27	1.0	1.0			4	
022	089a022	ICAL	hex_10			30-MAR-2006 20:55	1.0	1.0			5	
023	089a023	ICAL	hex_25			30-MAR-2006 21:23	1.0	1.0			6	
024	089a024	ICAL	hex_50			30-MAR-2006 21:51	1.0	1.0			7	
025	089a025	ICAL	hex_75			30-MAR-2006 22:19	1.0	1.0			8	
026	089a026	X	ib			30-MAR-2006 22:47	1.0					
027	089a027	ICAL	mo_50			30-MAR-2006 23:15	1.0	1.0			9	
028	089a028	ICAL	mo_250			30-MAR-2006 23:43	1.0	1.0			10	
029	089a029	ICAL	mo_500			31-MAR-2006 00:11	1.0	1.0			11	
030	089a030	ICAL	mo_1000			31-MAR-2006 00:40	1.0	1.0			12	

Stds used: 1=S2971 2=S2871 3=S2885 4=S2694 5=S2695 6=S2696 7=S2697 8=S2698 9=S2118 10=S2119 11=S2120 12=S2121 13=S2122 14=S2117 15=S2382 16=S2383 17=S2384 18=S2385 19=S2386 20=S2259 21=S2042 22=S2043 23=S2044 24=S2045 25=S1877

SEQUENCE SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116128618 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 30-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
031	089a031	ICAL	mo_2500			31-MAR-2006 01:08	1.0	1.0		13	
032	089a032	ICAL	mo_5000			31-MAR-2006 01:36	1.0	1.0		14	
033	089a033	X	ib			31-MAR-2006 02:04	1.0				
034	089a034	X	ib			31-MAR-2006 02:32	1.0				
035	089a035	ICAL	jp5_10			31-MAR-2006 03:00	1.0	1.0		15	
036	089a036	ICAL	jp5_100			31-MAR-2006 03:28	1.0	1.0		16	
037	089a037	ICAL	jp5_500			31-MAR-2006 03:56	1.0	1.0		17	
038	089a038	ICAL	jp5_1500			31-MAR-2006 04:24	1.0	1.0		18	
039	089a039	ICAL	jp5_3000			31-MAR-2006 04:52	1.0	1.0		19	
040	089a040	ICAL	jp5_5000			31-MAR-2006 05:20	1.0			20	
041	089a041	X	ib			31-MAR-2006 05:48	1.0				
042	089a042	X	ib			31-MAR-2006 06:16	1.0				
043	089a043	ICAL	bunk_50			31-MAR-2006 06:44	1.0	1.0		21	
044	089a044	ICAL	bunk_500			31-MAR-2006 07:12	1.0	1.0		22	
045	089a045	ICAL	bunk_1250			31-MAR-2006 07:40	1.0	1.0		23	123
046	089a046	ICAL	bunk_2500			31-MAR-2006 08:09	1.0	1.0		24	
047	089a047	ICAL	bunk_5000			31-MAR-2006 08:37	1.0	1.0		25	
048	089a048	X	ib			31-MAR-2006 09:05	1.0				
049	089a049	X	ib			31-MAR-2006 09:33	1.0				
050	089a050	X	bunk_5000			31-MAR-2006 12:25	1.0			25	

Stds used: 1=S2971 2=S2871 3=S2885 4=S2694 5=S2695 6=S2696 7=S2697 8=S2698 9=S2118 10=S2119 11=S2120 12=S2121 13=S2122 14=S2117 15=S2382 16=S2383 17=S2384 18=S2385 19=S2386 20=S2259 21=S2042 22=S2043 23=S2044 24=S2045 25=S1877

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	P	Analyzed	IDF	DSL:	MO:2	HXCS	
185622-009	GC11A	S	03/28/06 20:31	1.0	+	+	+	
185622-010	GC11A	S	03/28/06 20:59	1.0	+	+	+	
185622-011	GC11A	S	03/28/06 21:27	1.0	+	+	+	
185622-012	GC11A	S	03/28/06 21:55	1.0	+	+	+	
185622-013	GC11A	S	03/28/06 22:23	1.0	+	+	+	
185622-014	GC11A	S	03/29/06 01:12	1.0	+	+	+	
185622-015	GC11A	S	03/29/06 01:40	1.0	+	+	+	
185622-016	GC11A	S	03/29/06 02:08	1.0	+	+	+	
185622-020	GC11A	S	03/29/06 02:36	1.0	+	+	+	
185622-021	GC11A	S	03/29/06 03:04	1.0				
185622-021	GC11A	S	03/29/06 10:12	1.0				
185622-021	GC17A	N	03/29/06 11:32	1.0				
185622-021	GC11A	S	03/29/06 13:56	1.0	+	+	+	
185622-022	GC17A	S	03/29/06 13:49	1.0	+	+	+	
185622-023	GC17A	S	03/29/06 11:05	1.0	+	+	+	
185622-024	GC13B	S	03/30/06 10:08	1.0				
185622-024	GC11A	S	03/30/06 14:40	1.0	+	+	+	
185622-025	GC17A	S	03/29/06 00:28	1.0	+	+	+	
185622-026	GC17A	S	03/29/06 00:55	1.0	+	+	+	
185622-027	GC17A	S	03/29/06 01:23	1.0	+	+	+	
185622-029	GC17A	S	03/29/06 01:50	1.0	+	+	+	
185622-030	GC17A	S	03/28/06 18:05	1.0	+		+	
185622-031	GC17A	S	03/29/06 02:18	1.0	+	+	+	
185622-036	GC17A	S	03/28/06 18:33	1.0	+		+	
185622-037	GC17A	S	03/28/06 19:00	1.0	+		+	

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185622 GCSV Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	P	Analyzed	IDF	DSL:	MO:2	HXCS	
QC333084	GC15B	S	03/27/06 23:25	1.0	+	+	+	
QC333085	GC15B	S	03/27/06 22:30	1.0	+		+	
QC333086	GC15B	S	03/27/06 22:58	1.0	+		+	
QC333212	GC17A	S	03/29/06 10:37	1.0	+	+	+	
QC333213	GC17A	S	03/29/06 09:42	1.0	+		+	
QC333214	GC17A	S	03/29/06 10:10	1.0	+		+	

Curtis & Tompkins Laboratories **Sample Preparation Summary** **27-MAR-2006 19:52**

Batch Number : 111695
Date Extracted: 26-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : N/A
Bgroup : TEH
Units : mL
Clean-up :

Spike #1 ID : S2903E
Spike #2 ID : S2826A
Spike #3 ID :
SOP Version : TEH50LL_rv10

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185602-016		Geologica	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM		
185602-020		Geologica	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM		
185602-024		Geologica	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM		
185602-028		Geologica	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM		
185622-030		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEH	3630C	
185622-036		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEH	3630C	
185622-037		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEH	3630C	
185638-001		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185638-002		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185638-003		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185638-004		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185638-005		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185638-006		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185638-007		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
QC333084	BLANK		Water	500	mL	2.5	0.005000	1		.5	0		TEH	3630C	
QC333085	BS		Water	500	mL	2.5	0.005000	1		.5	.5		TEH	3630C	
QC333086	BSD		Water	500	mL	2.5	0.005000	1		.5	.5		TEH	3630C	

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Prep Chemist: Jessie Mee Reviewed By: [signature] Date: 3/27/06

Relinquished By: [signature] Received By: MB Date: 3/28/06

Curtis & Tompkins, Ltd

TEH WATER PREP LOG

BK2279

LIMS Batch No: 111695
LIMS Analysis: TEH/M
Extracted by: JDM
Date Extracted: 26 Mar 06

Extraction Method:
☐ mod. EPA 3510 sep. funnel
☒ mod. EPA 3520 cont. L/L
☐ _____

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Cleanup Method (if needed):
☒ EPA 3630 Silica Gel
☐ Other _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185602-016 E	500	7	2.5		
20					
24					
28					
185622-030 L				X	
36 L					
37 K					
185638-001 E		6			
02					
03					
04					
05 I					
06 E					
07 H		7			
MB QC333084		NA			
BS 85					
BSD 86					

KMH 3/27/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.5 mL of TEH_SURR was added to all samples	C4103E	JDM 3/26
0.5 mL of TEH_SP was added to all spikes	S2026A	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	JTB240603	
☒ Samples were continually extracted about 450 mL of CH_2Cl_2	EM46060	
Extraction Start Time:	1630	
Extraction End Time:	1130	JDM 3/27
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	KMH 3/27
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM45118532	
Concentrated to volumes as noted above	✓	✓

Jessica Theo 3/26/06
Extraction Chemist Date

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Contined from Page —
Continued on Page —

Kristi H 3/27/06
Reviewed by Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: KMH
Cleanup Date: 3/27/06

Benchbook # **BK 2297**
Page 6

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
185622-036	111695	1.0	1.0	
37				
185638-001				
2				
3				
4				
5				
6				
7				
MB QC 333084				
BS 5				
BSD 6				
				KMH 3/27/06

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled _____ g columns	NA	KMH 3/27/06
☑ Extracts were cleaned up using 1.0 g cartridges	SA 7028	
Extracts were eluted with 4.0 mL CH_2Cl_2	EM 46060	
Concentrated to volumes as noted above	✓	✓

3/27/06
Extraction Chemist / Date

Continued from page _____
Continued on page _____

3/27/06
Reviewed by / Date

Curtis & Tompkins Laboratories **Sample Preparation Summary** **28-MAR-2006 20:11**

Batch Number : 111728
Date Extracted: 27-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : TEHM
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2903E
Spike #2 ID : S3025A
Spike #3 ID :
SOP Version :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185622-009		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185622-010		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185622-011		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185622-012		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185622-013		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185622-014		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185622-015		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185622-016		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185622-020		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185622-021		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185622-022		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185622-023		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185622-024		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185622-025		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185622-026		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185622-027		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185622-029		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185622-031		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185751-001		LFR Levine Fricke	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM		
QC333212	BLANK		Water	500	mL	2.5	0.005000	1		.5	0		TEHM	3630C	
QC333213	BS		Water	500	mL	2.5	0.005000	1		.5	.5		TEHM	3630C	
QC333214	BSD		Water	500	mL	2.5	0.005000	1		.5	.5		TEHM	3630C	

Prep Chemist: Jessie Mee Reviewed By: [illegible] Date: 3/28/06

Relinquished By: [illegible] Received By: [illegible] Date: 3/29/06

Curtis & Tompkins, Ltd

TEH WATER PREP LOG

LIMS Batch No: 111728
LIMS Analysis: TEHM
Extracted by: JOM
Date Extracted: 27 Mar 06

Extraction Method:
- ☐ mod. EPA 3510 sep. funnel
- ☒ mod. EPA 3520 cont. L/L
- ☐ _____

Cleanup Method (if needed):
- ☒ EPA 3630 Silica Gel
- ☐ Other _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185632-009 L	500	6	2.5	X	
10 L					
11 L					
12 L					
13 F					
14 F					
15 L					
16 G					
20 J					
21 L					
22 L					
23 G					
24 I					
25 J					
26 L					lost ~10 mL's of total volume did not body receive
27 L					
29 F					
31 H					
185751-001 E		NA		X	
MB QC333212					
BS 13					
BSD 14					

JOM 3/28/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.5 mL of TEH_SURR was added to all samples	S2403 E	JOM 3/27/06
0.5 mL of TEH_SP was added to all spikes	S3025 A	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	JTB B24063	
☒ Samples were continually extracted about 450 mL of CH_2Cl_2	EM46060	
Extraction Start Time:	1300	
Extraction End Time:	0825	JOM 3/28/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	JOM 3/28/06
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM45118532	
Concentrated to volumes as noted above	✓	✓

3/27/06
Extraction Chemist — Date

Contined from Page _____
Continued on Page _____

3/28/06
Reviewed by — Date

Curtis & Tompkins, Ltd.

Silica Gel Cleanup

EPA 3630c

Prep Chemist: KMH
Cleanup Date: 3/28/06

Benchbook # **BK 2297**
Page 7

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
185622-009	111728	1.0	1.0	
10				
11				
12				
13				
14				
15				
16				
20				
21				
22				
23				
24				
25				
26				
27				
29				
31				
MB QC333212				
BS 3				
BSD 4				
				KMH 3/28/06

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ____ g columns	AM	KMH 3/28/06
☑ Extracts were cleaned up using 1.0 g cartridges	SO 70028	
Extracts were eluted with 40 mL CH_2Cl_2	Fm 46060	
Concentrated to volumes as noted above		

Extraction Chemist / Date 3/28/06

Continued from page ____
Continued on page ____

3/28/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Silica Gel Cleanup

EPA 3630c

Prep Chemist: KMH
Cleanup Date: 3/29/06

Benchbook # **BK 2297**
Page **8**

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
185622-021	111728	0.5	0.5	2nd time ★
185681-002	111782	1.0	1.0	
3				
5				
185770-001				
2				
3				
4				
5				
6				
MB OC 33.3429				
BS 30				
BSD 31				

KMH 3/29/06

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ____ g columns	NA	KMH 3/29/06
☑ Extracts were cleaned up using 1.0 g cartridges	Sp 7028	
Extracts were eluted with (★2.0) 4 mL CH_2Cl_2	EM4L0L0	
Concentrated to volumes as noted above	✓	

Kmd 3/29/06
Extraction Chemist / Date

Continued from page ____
Continued on page ____

3/29/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water
As of 04/13/06

Analyte	Units	GC11A	GC13B	GC15B	GC17A
JP-5 C10-C16	ug/L	17	16	7.9	5.4
Jet Fuel A C10-C16	ug/L	14	30	24	33
Diesel C10-C20	ug/L		16	13	19
Diesel C10-C22	ug/L	21	18	19	27
Diesel C10-C28	ug/L	18	11	22	37
Diesel C10-C24	ug/L	21	15	18	33
Diesel C12-C24	ug/L	20	13	20	33
Diesel C12-C32	ug/L	22	14	25	23
Diesel C12-C36	ug/L	13	17		
Diesel C12-C28	ug/L		31		
Diesel C12-C22	ug/L	19	17	20	25
Motor Oil C20-C36	ug/L	40	50	29	53
Motor Oil C28-C36	ug/L	42	55	33	76
Motor Oil C24-C36	ug/L	42	55	33	76
Motor Oil C22-C32	ug/L	36	51	21	50
Motor Oil C22-C36	ug/L	41	52	30	51
Hexacosane	ug/L	4.5	3.4	4.2	3.1

VOLATILE ORGANIC COMPOUNDS

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	BHWGW01	Batch#:	111543
Lab ID:	185622-001	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	0.7	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	1.1	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	105	76-114
Toluene-d8	97	88-110
Bromofluorobenzene	109	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	BHWGW05	Batch#:	111543
Lab ID:	185622-002	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	107	76-114
Toluene-d8	98	88-110
Bromofluorobenzene	109	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	LF08GW02B	Batch#:	111543
Lab ID:	185622-003	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-120
1,2-Dichloroethane-d4	108	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	109	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	LF08GW03	Batch#:	111543
Lab ID:	185622-004	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	109	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	107	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	LF08GW04	Batch#:	111543
Lab ID:	185622-005	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	107	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	108	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DUP0316064A	Batch#:	111543
Lab ID:	185622-006	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	108	76-114
Toluene-d8	96	88-110
Bromofluorobenzene	108	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	LF08GW02BRB03	Batch#:	111543
Lab ID:	185622-007	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	109	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	109	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	231GW26	Batch#:	111542
Lab ID:	185622-009	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	108	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	107	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	231GW24	Batch#:	111542
Lab ID:	185622-010	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	110	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	107	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	231GW19	Batch#:	111542
Lab ID:	185622-011	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	111	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	105	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	231GW29	Batch#:	111542
Lab ID:	185622-012	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-120
1,2-Dichloroethane-d4	109	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	105	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	207GW03	Batch#:	111542
Lab ID:	185622-015	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-120
1,2-Dichloroethane-d4	111	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	105	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	TB0316063A	Batch#:	111544
Lab ID:	185622-019	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	113	76-114
Toluene-d8	94	88-110
Bromofluorobenzene	108	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DAEGW101	Batch#:	111544
Lab ID:	185622-020	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	113	76-114
Toluene-d8	94	88-110
Bromofluorobenzene	103	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DAEGW102	Batch#:	111544
Lab ID:	185622-021	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	115 *	76-114
Toluene-d8	95	88-110
Bromofluorobenzene	105	86-115

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DAEGW104	Batch#:	111544
Lab ID:	185622-022	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	114	76-114
Toluene-d8	96	88-110
Bromofluorobenzene	107	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DAEGW06	Batch#:	111544
Lab ID:	185622-023	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	114	76-114
Toluene-d8	93	88-110
Bromofluorobenzene	107	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	1349MW01	Batch#:	111544
Lab ID:	185622-024	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-120
1,2-Dichloroethane-d4	111	76-114
Toluene-d8	93	88-110
Bromofluorobenzene	104	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	1349MW03R	Batch#:	111544
Lab ID:	185622-025	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	117 *	76-114
Toluene-d8	96	88-110
Bromofluorobenzene	106	86-115

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	1349MW100	Batch#:	111544
Lab ID:	185622-026	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	22	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	0.8	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	0.8	0.5	

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	114	76-114
Toluene-d8	93	88-110
Bromofluorobenzene	103	86-115

REVISED

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	1349MW101	Batch#:	111544
Lab ID:	185622-027	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-120
1,2-Dichloroethane-d4	103	76-114
Toluene-d8	93	88-110
Bromofluorobenzene	99	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	TB0317061A	Batch#:	111544
Lab ID:	185622-032	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	112	76-114
Toluene-d8	97	88-110
Bromofluorobenzene	106	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	LF08GW01	Batch#:	111544
Lab ID:	185622-033	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-120
1,2-Dichloroethane-d4	95	76-114
Toluene-d8	92	88-110
Bromofluorobenzene	101	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	LF08GW06	Batch#:	111544
Lab ID:	185622-034	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	102	76-114
Toluene-d8	91	88-110
Bromofluorobenzene	110	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	LF08GW06RB01	Batch#:	111544
Lab ID:	185622-035	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	110	76-114
Toluene-d8	93	88-110
Bromofluorobenzene	108	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332464	Batch#:	111542
Matrix:	Water	Analyzed:	03/22/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	107	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	105	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332467	Batch#:	111543
Matrix:	Water	Analyzed:	03/22/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	103	76-114
Toluene-d8	97	88-110
Bromofluorobenzene	107	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332470	Batch#:	111544
Matrix:	Water	Analyzed:	03/22/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	111	76-114
Toluene-d8	92	88-110
Bromofluorobenzene	107	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	111542
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Type: BS Lab ID: QC332462

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	27.20	109	65-135
Benzene	25.00	24.02	96	65-135
Trichloroethene	25.00	25.42	102	65-135
Toluene	25.00	24.93	100	65-135
Chlorobenzene	25.00	24.71	99	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-120
1,2-Dichloroethane-d4	103	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	98	86-115

Type: BSD Lab ID: QC332463

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	25.95	104	65-135	5	35
Benzene	25.00	23.04	92	65-135	4	35
Trichloroethene	25.00	24.27	97	65-135	5	35
Toluene	25.00	23.69	95	65-135	5	35
Chlorobenzene	25.00	23.59	94	65-135	5	35

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-120
1,2-Dichloroethane-d4	104	76-114
Toluene-d8	98	88-110
Bromofluorobenzene	98	86-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	111543
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Type: BS Lab ID: QC332465

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	26.88	108	65-135
Benzene	25.00	24.73	99	65-135
Trichloroethene	25.00	27.25	109	65-135
Toluene	25.00	25.74	103	65-135
Chlorobenzene	25.00	26.68	107	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-120
1,2-Dichloroethane-d4	100	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	95	86-115

Type: BSD Lab ID: QC332466

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	24.38	98	65-135	10	35
Benzene	25.00	23.15	93	65-135	7	35
Trichloroethene	25.00	25.27	101	65-135	8	35
Toluene	25.00	23.61	94	65-135	9	35
Chlorobenzene	25.00	24.85	99	65-135	7	35

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-120
1,2-Dichloroethane-d4	102	76-114
Toluene-d8	97	88-110
Bromofluorobenzene	95	86-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	111544
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Type: BS Lab ID: QC332468

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	23.58	94	65-135
Benzene	25.00	20.91	84	65-135
Trichloroethene	25.00	22.48	90	65-135
Toluene	25.00	21.99	88	65-135
Chlorobenzene	25.00	22.98	92	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-120
1,2-Dichloroethane-d4	109	76-114
Toluene-d8	90	88-110
Bromofluorobenzene	102	86-115

Type: BSD Lab ID: QC332469

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	22.65	91	65-135	4	35
Benzene	25.00	21.37	85	65-135	2	35
Trichloroethene	25.00	23.44	94	65-135	4	35
Toluene	25.00	22.97	92	65-135	4	35
Chlorobenzene	25.00	23.49	94	65-135	2	35

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	108	76-114
Toluene-d8	93	88-110
Bromofluorobenzene	103	86-115

RPD= Relative Percent Difference

8260/624.5DX W 1CAL

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\031706.b\ECH01.D

Date : 17-MAR-2006 14:33

Client ID: bfb tune std

Instrument: MSVOA05.i

Sample Info: BFB,S2327

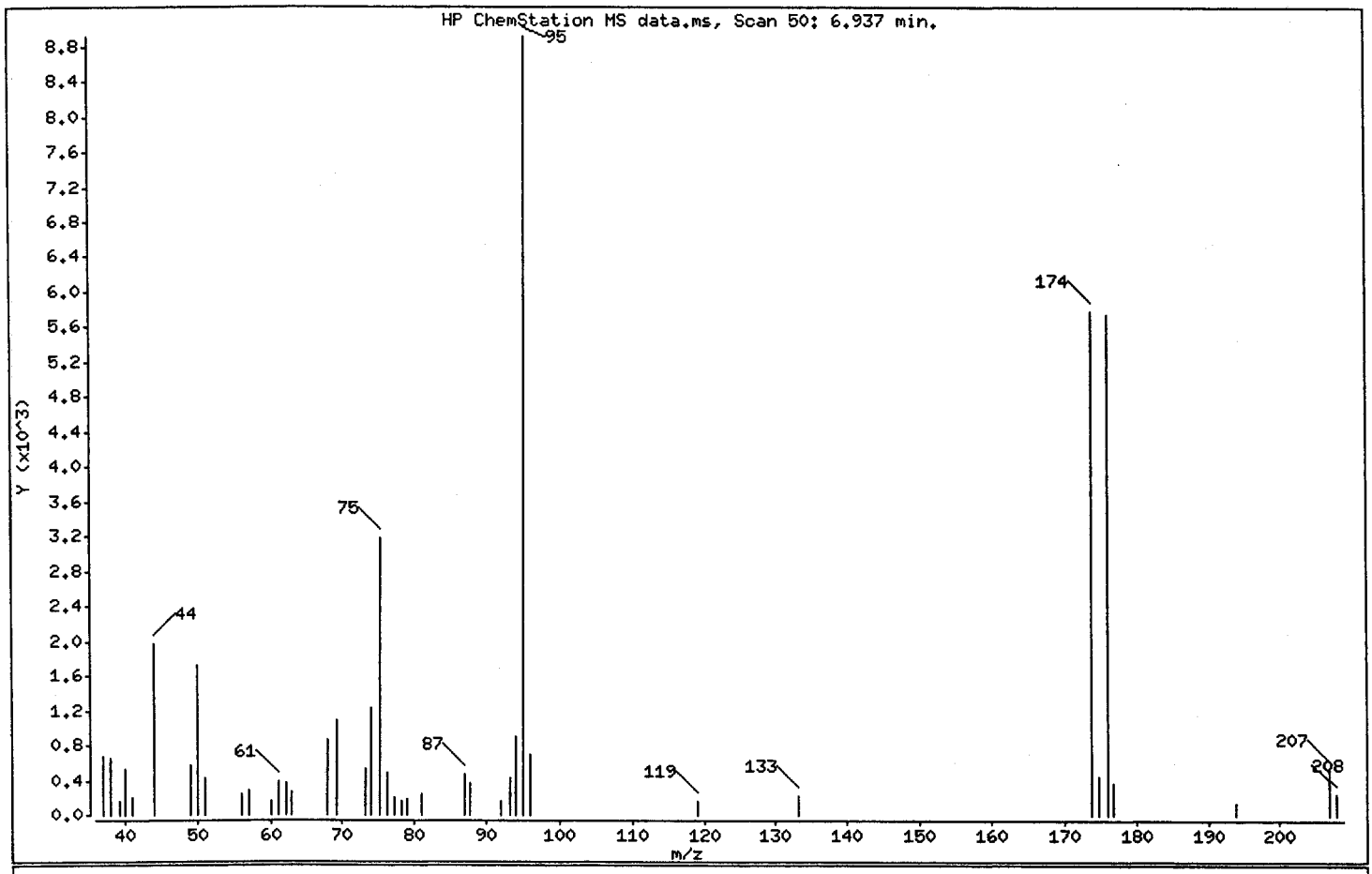
Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.46
75	30.00 - 60.00% of mass 95	35.62
96	5.00 - 9.00% of mass 95	7.76
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	65.00
175	5.00 - 9.00% of mass 174	5.06 (7.78)
176	95.01 - 100.99% of mass 174	64.46 (99.17)
177	5.00 - 9.00% of mass 176	4.15 (6.44)

m 3/20/06

a 03/20/02

8260/GA50K w ICV

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\032006.b\ECK02.D

Date : 20-MAR-2006 08:24

Client ID: bfb tune std

Instrument: MSVOA05.i

Sample Info: BFB,S2327

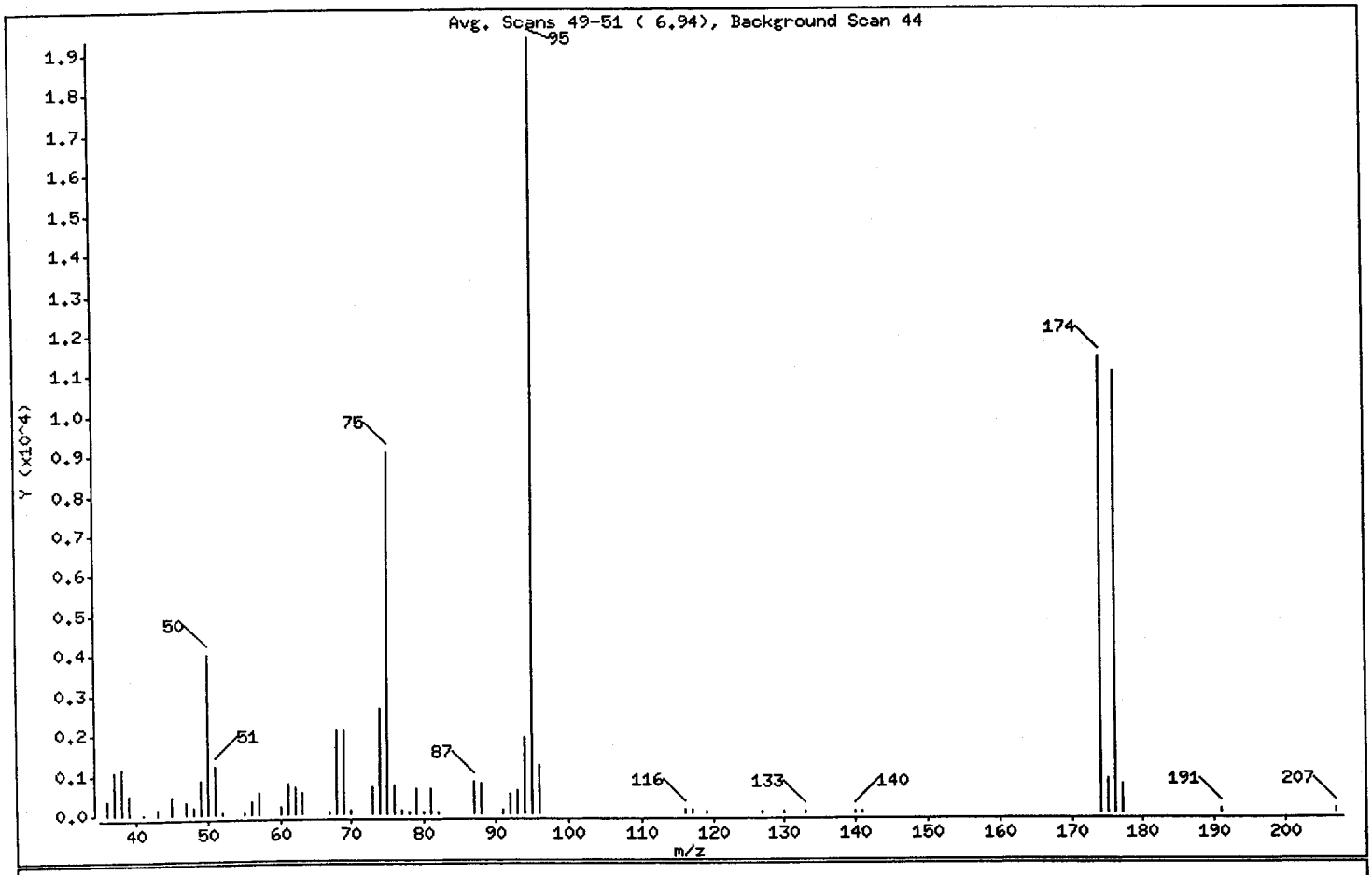
Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.76
75	30.00 - 60.00% of mass 95	46.68
96	5.00 - 9.00% of mass 95	6.27
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	58.67
175	5.00 - 9.00% of mass 174	4.44 (7.56)
176	95.01 - 100.99% of mass 174	56.81 (96.84)
177	5.00 - 9.00% of mass 176	3.63 (6.39)

R 3/20/06

03/20/06

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\032206.b\ECM02.D

Date : 22-MAR-2006 08:36

Client ID: bfb tune std

Instrument: MSVOA05.i

Sample Info: BFB,S2327

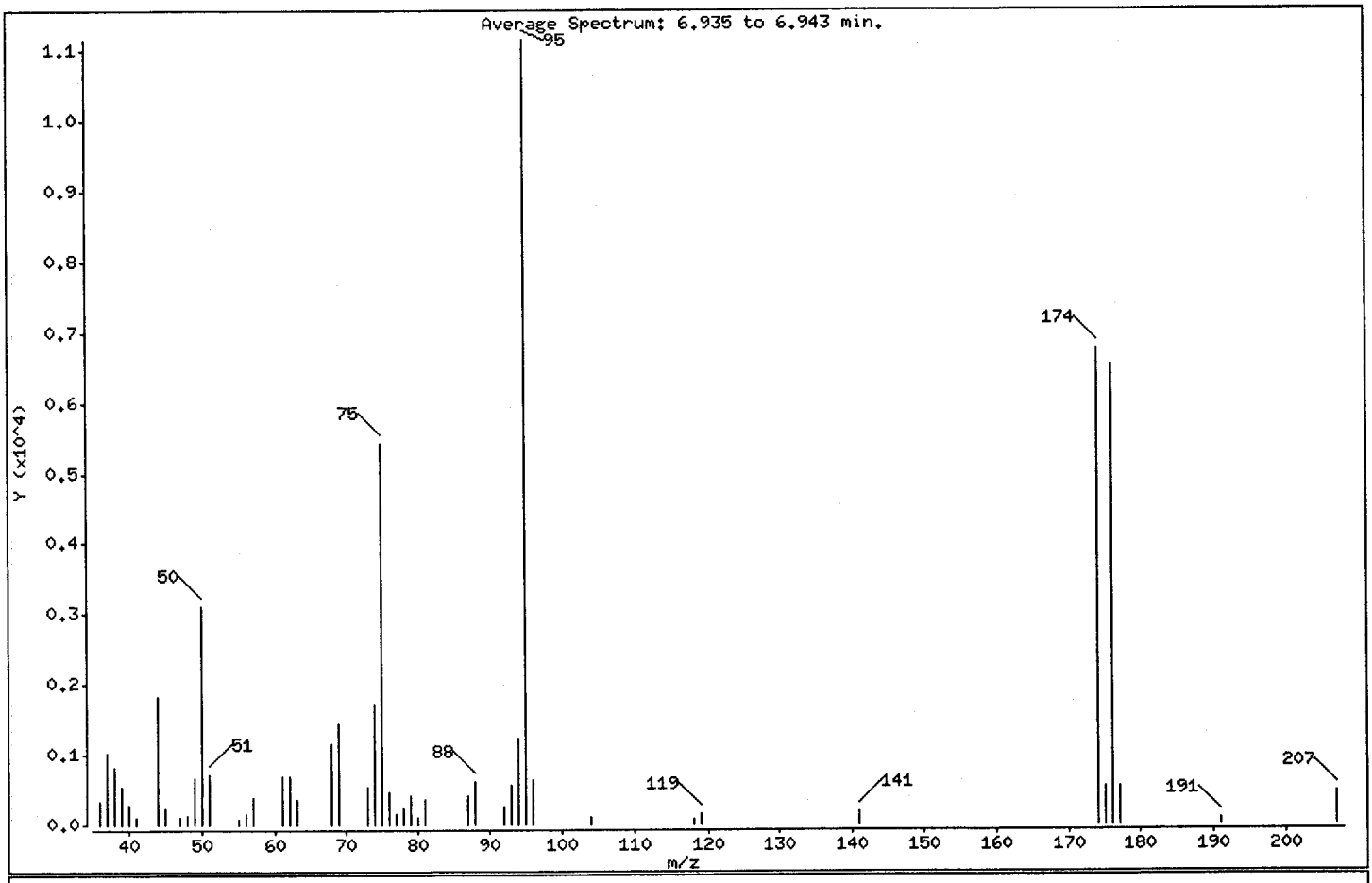
Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	27.86
75	30.00 - 60.00% of mass 95	48.63
96	5.00 - 9.00% of mass 95	5.70
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	60.64
175	5.00 - 9.00% of mass 174	4.88 (8.05)
176	95.01 - 100.99% of mass 174	58.62 (96.68)
177	5.00 - 9.00% of mass 176	4.87 (8.32)

M 3/22/06

03/23/06

8260/624SA w ICA

Data File: \\Gcmsserver\DD\chem\MSVOA06.i\030906.b\FC911.D

Date : 09-MAR-2006 13:59

Client ID: bfb tune std

Instrument: MSVOA06.i

Sample Info: BFB,S2327

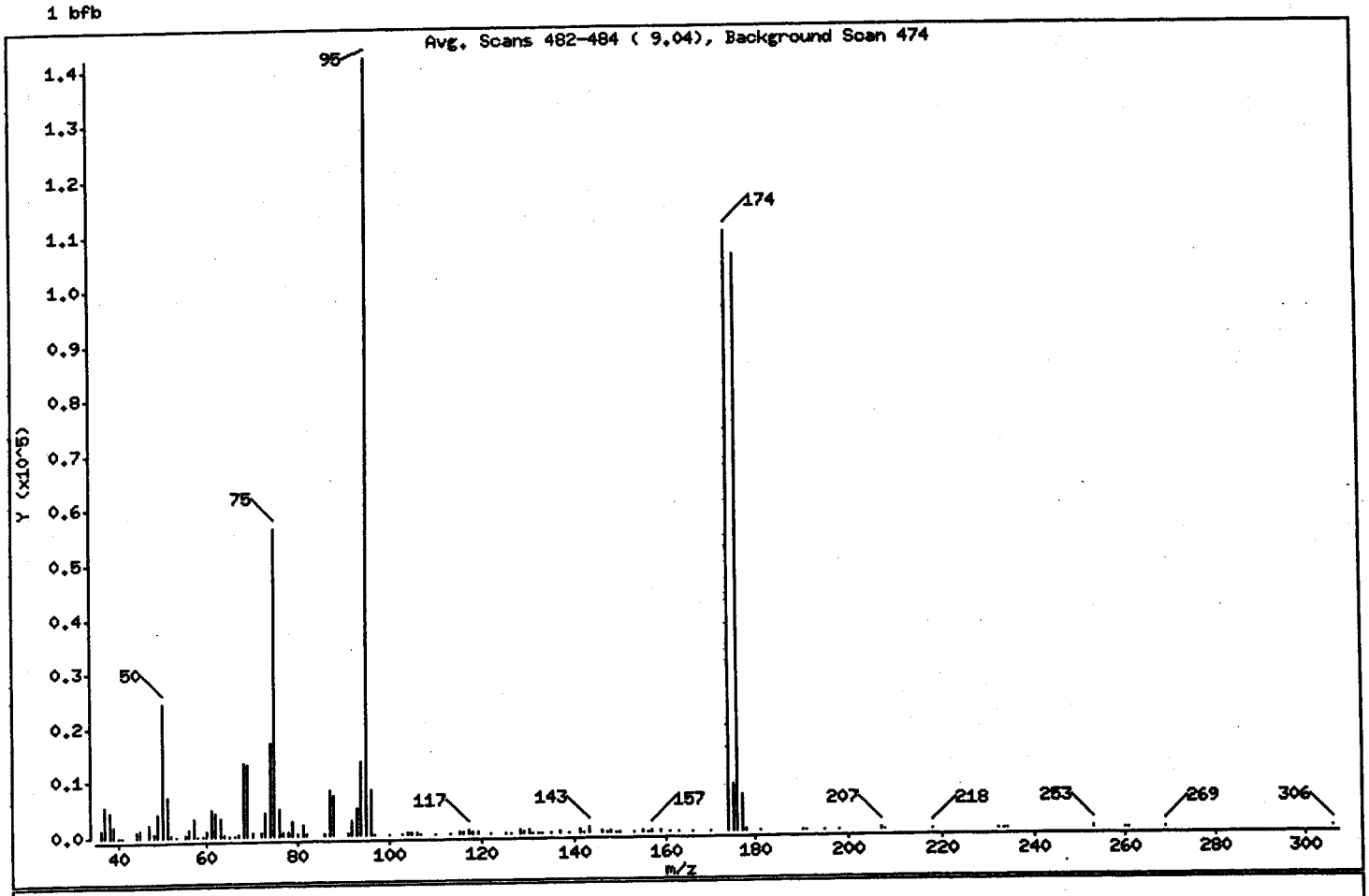
Volume Injected (uL): 1.0

Operator: BO

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.25
75	30.00 - 60.00% of mass 95	39.81
96	5.00 - 9.00% of mass 95	5.74
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	77.30
175	5.00 - 9.00% of mass 174	5.89 (7.62)
176	95.01 - 100.99% of mass 174	74.45 (96.32)
177	5.00 - 9.00% of mass 176	4.70 (6.32)

R 3/10/06

3/13/06

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\032206.b\FCM02.D

Date : 22-MAR-2006 08:31

Client ID: bfb tune std

Instrument: MSVOA06.i

Sample Info: BFB,S2327

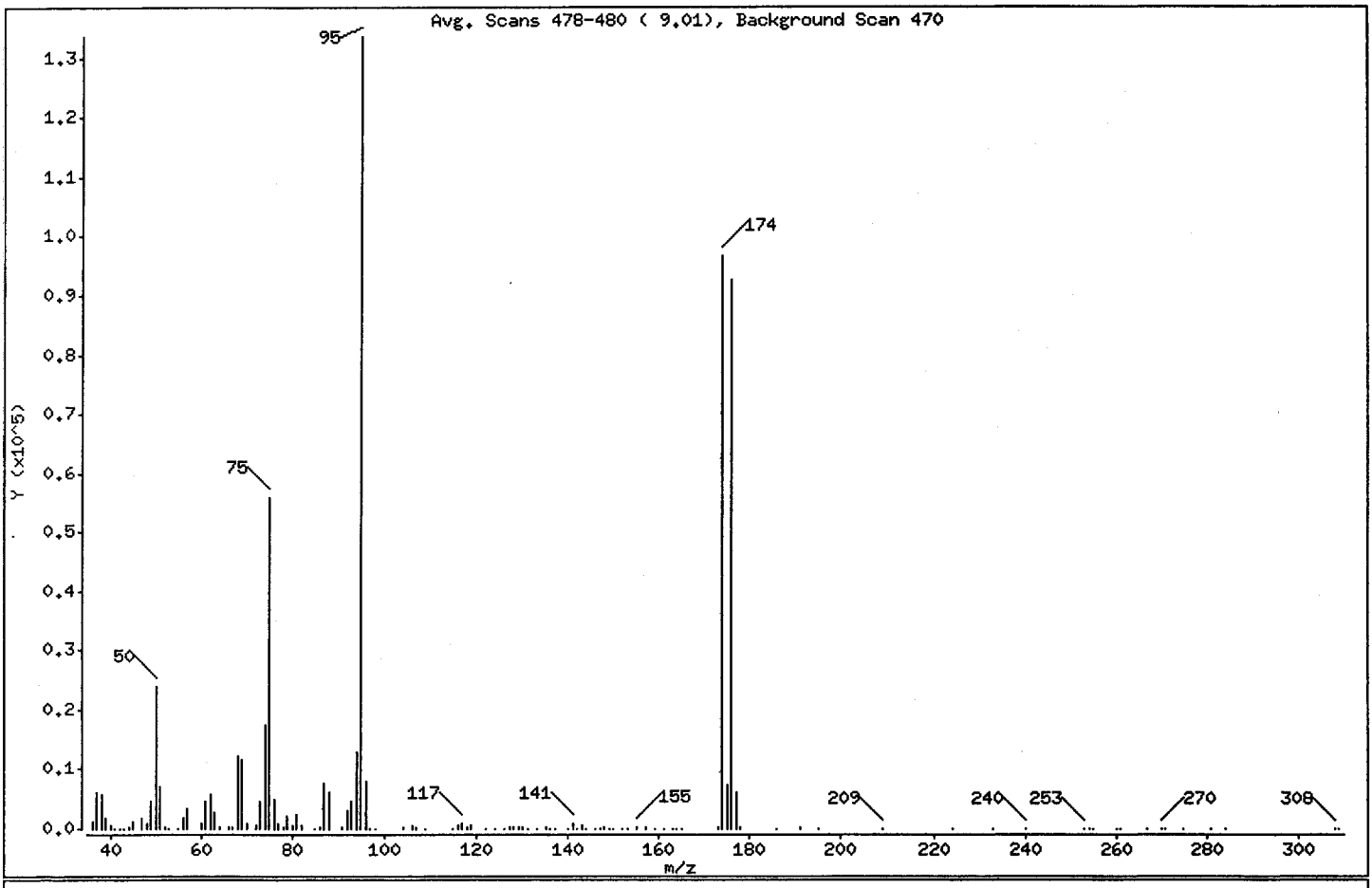
Volume Injected (uL): 1.0

Operator: BO

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.99
75	30.00 - 60.00% of mass 95	41.82
96	5.00 - 9.00% of mass 95	6.08
173	Less than 2.00% of mass 174	0.15 (0.20)
174	50.00 - 99.99% of mass 95	72.43
175	5.00 - 9.00% of mass 174	5.58 (7.71)
176	95.01 - 100.99% of mass 174	69.39 (95.81)
177	5.00 - 9.00% of mass 176	4.54 (6.54)

m 3/22/06

03/28/06

8260 / 6450K w 1CAL

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH06.D

Date : 17-MAR-2006 12:08

Client ID: bfb tune std

Instrument: MSVOA09.i

Sample Info: BFB,S2327

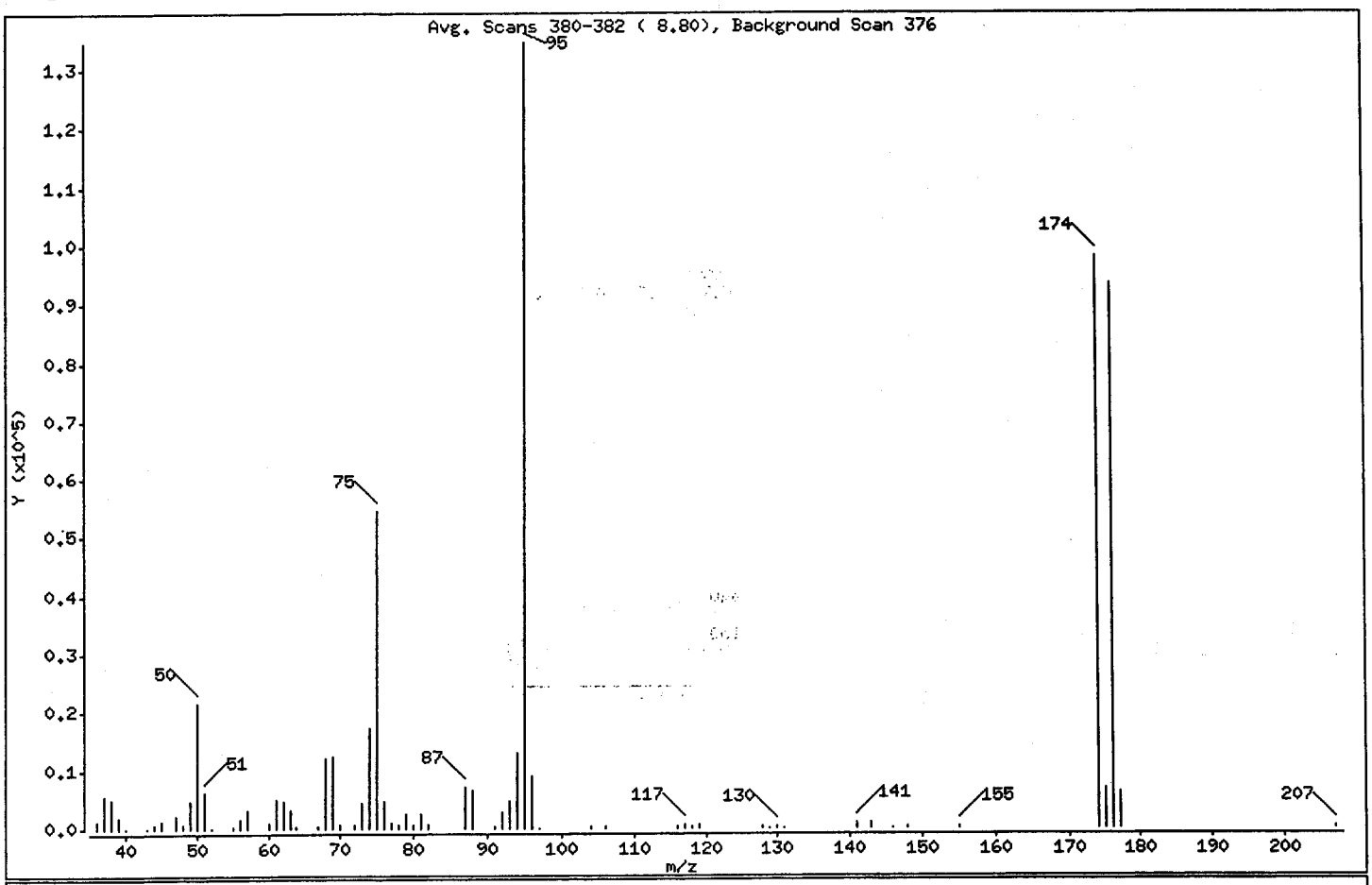
Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.06
75	30.00 - 60.00% of mass 95	40.39
96	5.00 - 9.00% of mass 95	6.77
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	72.78
175	5.00 - 9.00% of mass 174	5.12 (7.03)
176	95.01 - 100.99% of mass 174	69.49 (95.48)
177	5.00 - 9.00% of mass 176	4.49 (6.46)

pr 3/20/06

Q 3/20/06

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\032206.b\ICM02.D

Date : 22-MAR-2006 08:19

Client ID: bfb tune std

Instrument: MSVOA09.i

Sample Info: BFB,S2327

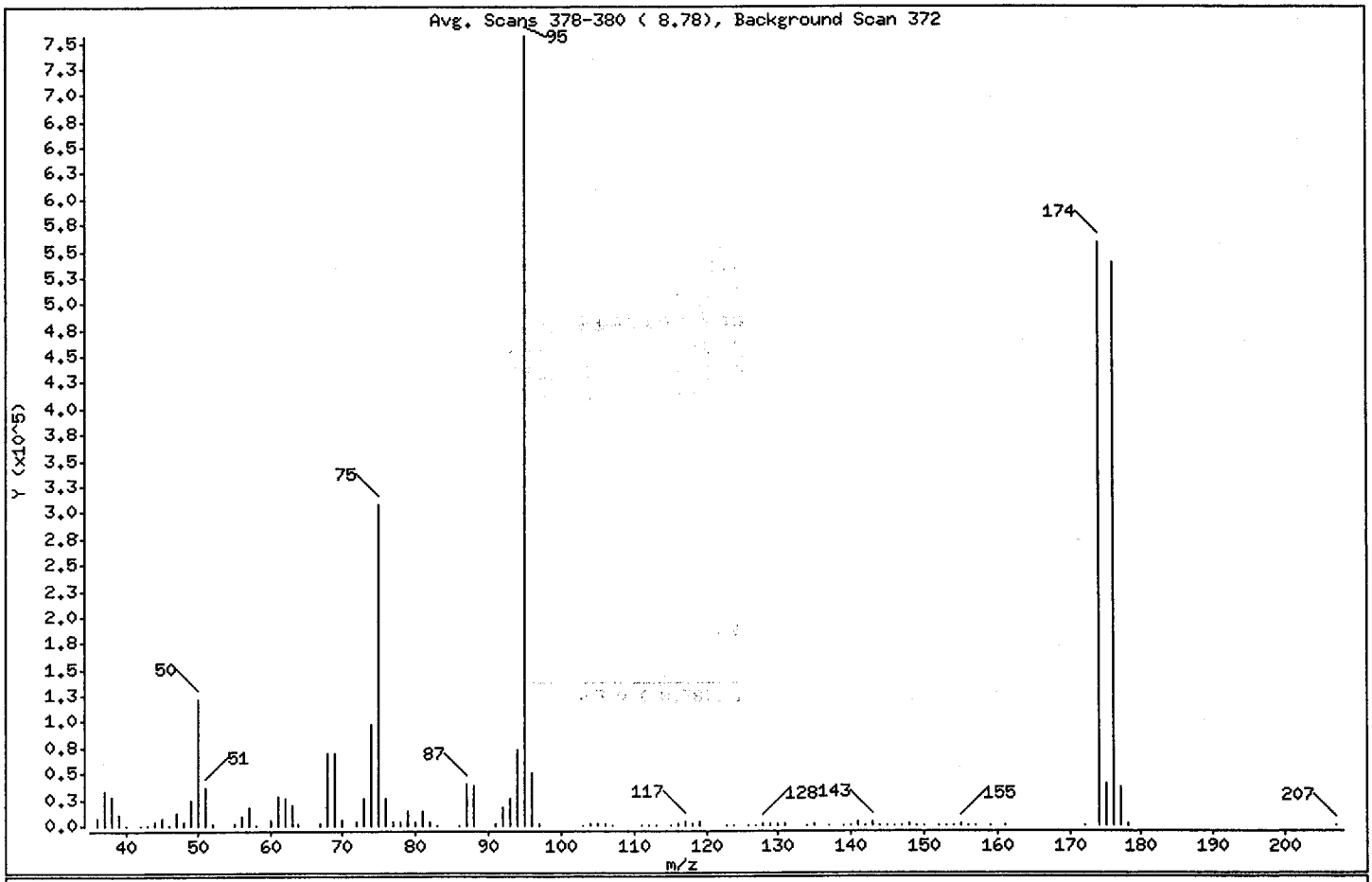
Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.19
75	30.00 - 60.00% of mass 95	40.70
96	5.00 - 9.00% of mass 95	6.68
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	73.81
175	5.00 - 9.00% of mass 174	5.29 (7.17)
176	95.01 - 100.99% of mass 174	71.25 (96.53)
177	5.00 - 9.00% of mass 176	4.73 (6.64)

Av 3/23 lw

03/23/06

8260/GASOP w ICAL

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 8260B

Inst : MSVOA05
Calnum : 446110313001
Units : ug/L

Name : 826GOX5
Date : 17-MAR-2006 17:10
X Axis : R

Type : WATER

Inj Vol: 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	ech04	446110313004	0.25/0.5PPB	17-MAR-2006 17:10	S2783 (1000000X), S2844 (2000000X), S2410 (2000000X), S2707 (5000X)
L2	ech05	446110313005	0.5/1PPB	17-MAR-2006 17:41	S2783 (500000X), S2844 (1000000X), S2410 (1000000X), S2707 (5000X)
L3	ech06	446110313006	2PPB	17-MAR-2006 18:13	S2783 (250000X), S2844 (250000X), S2410 (500000X), S2707 (5000X)
L4	ech07	446110313007	5PPB	17-MAR-2006 18:45	S2783 (100000X), S2844 (100000X), S2410 (200000X), S2707 (5000X)
L5	ech08	446110313008	10PPB	17-MAR-2006 19:16	S2783 (50000X), S2844 (50000X), S2410 (100000X), S2707 (5000X)
L6	ech09	446110313009	20PPB	17-MAR-2006 19:48	S2783 (25000X), S2844 (25000X), S2410 (50000X), S2707 (5000X)
L7	ech10	446110313010	50PPB	17-MAR-2006 20:20	S2783 (10000X), S2844 (10000X), S2410 (20000X), S2707 (5000X)
L8	ech11	446110313011	75PPB	17-MAR-2006 20:52	S2783 (6667X), S2844 (6667X), S2410 (13330X), S2707 (5000X)
L9	ech12	446110313012	100PPB	17-MAR-2006 21:23	S2783 (5000X), S2844 (5000X), S2410 (10000X), S2707 (5000X)

* ICAL - cyclohexane fails on RSD
- high pt dropped for NAPHA
- 2 high pts dropped for Hexachlorobutadiene

* ICV - cyclohexane ↓
USACE - 2CLEVE ↑, Hexachlorobutadiene ↑
EPA ↑

mr 3/20/06

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12	0.8083m	0.7390m	0.5922m	0.6960m	0.8928m	0.7317	0.7633	0.8644	0.7220	AVRG		1.32165		0.7566	12	15	0.050	0.99	
Chloromethane		1.0029m	0.9565	0.9308	1.0906m	0.9220	0.8541	0.8933	0.7678	AVRG		1.07847		0.9272	10	15	0.10	0.99	
Vinyl Chloride	0.7727	0.7008m	0.7123m	0.6989m	0.8627m	0.7345	0.6975	0.7454	0.6642	AVRG		1.36593		0.7321	8	15	0.050	0.99	
Bromomethane		0.5496m	0.5063m	0.5166m	0.5430	0.4788	0.4808	0.5364	0.4752	AVRG		1.95757		0.5108	6	15	0.050	0.99	
Chloroethane		0.3798m	0.3573	0.3743m	0.4146	0.3579	0.3416	0.3726	0.3177	AVRG		2.74357		0.3645	8	15	0.050	0.99	
Trichlorofluoromethane	1.0007	1.0197m	0.7939	0.8464	1.0111	0.8947	0.8959	1.0235	0.8574	AVRG		1.07871		0.9270	9	15	0.050	0.99	
Acetone			0.3083	0.3901	0.3347	0.3089	0.2797	0.3289	0.2753	AVRG		3.14482		0.3180	12	15	0.050	0.99	
Freon 113		0.4585	0.4007	0.3700	0.4829	0.4189	0.3425	0.5452	0.4522	AVRG		2.30482		0.4339	15	15	0.050	0.99	
1,1-Dichloroethene		0.5072m	0.4661	0.4108	0.4630	0.4028	0.3721	0.4423	0.3929	AVRG		2.31400		0.4322	10	15	0.050	0.99	
Methylene Chloride			0.5925	0.6230	0.6403	0.5694	0.5508	0.5778	0.5335	AVRG		1.71266		0.5839	7	15	0.050	0.99	
Carbon Disulfide		1.9141	1.8764	1.7382	2.0481	1.7612	1.6723	1.8717	1.6975	AVRG		0.54871		1.8224	7	15	0.050	0.99	
MTBE		1.9937	1.8879	1.8798	1.9484	1.8573	1.8230	1.8290	1.7367	AVRG		0.53491		1.8695	4	15	0.050	0.99	
trans-1,2-Dichloroethene		0.6328	0.5966	0.5222	0.5575	0.4961	0.4760	0.5236	0.4791	AVRG		1.86748		0.5355	11	15	0.050	0.99	
Vinyl Acetate			2.2052	2.1371	2.1057	2.3014	2.2214	1.6778	2.1330	AVRG		0.47356		2.1116	10	15	0.050	0.99	
1,1-Dichloroethane	1.1411	1.1604	1.2209	1.1763	1.3481	1.1764	1.1380	1.1962	1.0594	AVRG		0.84771		1.1796	7	15	0.10	0.99	
2-Butanone			0.5140	0.5168	0.5068	0.5129	0.4910	0.4734	0.4496	AVRG		2.02044		0.4949	5	15	0.050	0.99	
2,2-Dichloropropane	0.8335	0.7002	0.8128	0.7727	0.8965	0.7902	0.7169	0.7745	0.6716	AVRG		1.29145		0.7743	9	15	0.050	0.99	
cis-1,2-Dichloroethene	0.6735	0.7773	0.6490	0.6743	0.7096	0.6435	0.6200	0.6238	0.5761	AVRG		1.51334		0.6608	9	15	0.050	0.99	
Chloroform	1.2715	1.1812	1.1972	1.2022	1.3246	1.1928	1.1203	1.1719	1.0401	AVRG		0.84098		1.1891	7	15	0.050	0.99	
Bromochloromethane	0.2599	0.2555	0.2891	0.2830	0.2925	0.3014	0.2852	0.2874	0.2631	AVRG		3.57574		0.2797	6	15	0.050	0.99	
1,1,1-Trichloroethane	0.9481	0.8975	0.8847	0.8289	0.9507	0.8207	0.7361	0.8828	0.7537	AVRG		1.16836		0.8559	9	15	0.050	0.99	
1,1-Dichloropropene		0.4234	0.4029	0.3913	0.4839	0.4057	0.3630	0.4566	0.3833	AVRG		2.41690		0.4138	10	15	0.050	0.99	
Carbon Tetrachloride		0.3751	0.3670	0.3284	0.4069	0.3542	0.3024	0.3897	0.3236	AVRG		2.80959		0.3559	10	15	0.050	0.99	
1,2-Dichloroethane	0.6258	0.5786	0.5765	0.5955	0.6469	0.6092	0.5743	0.5728	0.5216	AVRG		1.69772		0.5890	6	15	0.050	0.99	

446110313001

03/20/06

8260 / GASOP w ICAL

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.4867	1.2422	1.2403	1.4150	1.2520	1.1975	1.2478	1.1171	AVRG		0.78443		1.2748	9	15	0.050	0.99	
Trichloroethene		0.3921	0.3268	0.3360	0.3887	0.3260	0.3020	0.3559	0.3057	AVRG		2.92705		0.3416	10	15	0.050	0.99	
1,2-Dichloropropane	0.3531	0.3857	0.3992	0.3687	0.4188	0.3745	0.3695	0.3862	0.3412	AVRG		2.64939		0.3774	6	15	0.050	0.99	
Bromodichloromethane	0.5243	0.5267	0.5085	0.5211	0.5752	0.5118	0.5028	0.5243	0.4757	AVRG		1.92705		0.5189	5	15	0.050	0.99	
Dibromomethane		0.2958	0.2879	0.2787	0.2984	0.2789	0.2795	0.2861	0.2644	AVRG		3.52449		0.2837	4	15	0.050	0.99	
2-Chloroethylvinylether		0.2012	0.2257	0.2247	0.2374	0.2309	0.2263	0.2410	0.2268	AVRG		4.41050		0.2267	5	15	0.050	0.99	
4-Methyl-2-Pentanone			0.5862	0.5866	0.6136	0.5899	0.5760	0.5855	0.5653	AVRG		1.70599		0.5862	3	15	0.050	0.99	
Tetramethyl THF	1.1825	1.0896	1.0533	1.0978	1.1982	1.1389	1.0752	1.1009	1.0091	AVRG		0.90494		1.1051	5	15	0.050	0.99	
cis-1,3-Dichloropropene	0.6197	0.6141	0.6010	0.5744	0.6552	0.6000	0.5801	0.6054	0.5481	AVRG		1.66728		0.5998	5	15	0.050	0.99	
Toluene		0.7218	0.7437	0.7526	0.8646	0.7513	0.6854	0.7785	0.6826	AVRG		1.33770		0.7475	8	15	0.050	0.99	
trans-1,3-Dichloropropene	0.5652	0.5510	0.5691	0.5617	0.6308	0.5969	0.5754	0.5932	0.5405	AVRG		1.73612		0.5760	5	15	0.050	0.99	
1,1,2-Trichloroethane		0.1646	0.1854	0.1867	0.2090	0.1928	0.1885	0.1910	0.1772	AVRG		5.35056		0.1869	7	15	0.050	0.99	
2-Hexanone			0.4682	0.4640	0.4958	0.4725	0.4359	0.4633	0.4434	AVRG		2.15844		0.4633	4	15	0.050	0.99	
1,3-Dichloropropane		0.6487	0.6733	0.6815	0.7030	0.7028	0.6258	0.6553	0.6234	AVRG		1.50549		0.6642	5	15	0.050	0.99	
Tetrachloroethene	0.2627	0.2572	0.2965	0.2614	0.3057	0.2669	0.2245	0.3000	0.2680	AVRG		3.68399		0.2714	9	15	0.050	0.99	
Dibromochloromethane		0.3926	0.3844	0.4006	0.4094	0.4032	0.3839	0.4062	0.3805	AVRG		2.53101		0.3951	3	15	0.050	0.99	
1,2-Dibromoethane	0.3585	0.3597	0.3409	0.3435	0.3698	0.3647	0.3614	0.3834	0.3447	AVRG		2.78919		0.3585	4	15	0.050	0.99	
Chlorobenzene		0.9146	0.9791	0.9205	1.0085	0.9334	0.8547	0.9135	0.8771	AVRG		1.08087		0.9252	5	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.2652	0.3612	0.3096	0.3461	0.3149	0.2971	0.3240	0.3013	AVRG		3.17532		0.3149	9	15	0.050	0.99	
Ethylbenzene	1.7079	1.5625	1.7305	1.5828	1.8193	1.6428	1.4241	1.6408	1.5089	AVRG		0.61562		1.6244	7	15	0.050	0.99	
m,p-Xylenes	0.6201	0.5493	0.6128	0.5791	0.6379	0.5878	0.5222	0.5934	0.5316	AVRG		1.71951		0.5816	7	15	0.050	0.99	
o-Xylene	0.6051	0.5463	0.6104	0.5794	0.6726	0.5970	0.5318	0.5900	0.5297	AVRG		1.71021		0.5847	8	15	0.050	0.99	
Styrene	0.9416	0.9043	1.0867	1.0281	1.1942	1.0913	1.0096	1.0777	0.9838	AVRG		0.96595		1.0352	9	15	0.050	0.99	
Bromoform		0.3186	0.2930	0.2936	0.3115	0.3033	0.3028	0.3061	0.2985	AVRG		3.29577		0.3034	3	15	0.10	0.99	
Isopropylbenzene	2.5661	2.7196	2.8792	2.6133	2.9973	2.6688	2.2471	2.7688	2.6369	AVRG		0.37349		2.6775	8	15	0.050	0.99	
1,1,2,2-Tetrachloroethane		1.1411	1.1835	1.2005	1.2246	1.1878	1.0991	1.0676	1.1247	AVRG		0.86684		1.1536	5	15	0.30	0.99	
1,2,3-Trichloropropane		1.2728	1.1432	1.0839	1.1006	1.0368	0.9736	0.9875	1.0058	AVRG		0.92978		1.0755	9	15	0.050	0.99	
Propylbenzene		3.7912	4.0334	3.6856	4.0718	3.5734	2.9743	3.6493	3.4260	AVRG		0.27392		3.6506	10	15	0.050	0.99	
Bromobenzene	0.7472	0.8160	0.7660	0.7536	0.7856	0.7498	0.6849	0.7200	0.7151	AVRG		1.33567		0.7487	5	15	0.050	0.99	
1,3,5-Trimethylbenzene		2.3877	2.6315	2.3388	2.7159	2.3870	2.0728	2.4261	2.2257	AVRG		0.41698		2.3982	9	15	0.050	0.99	
2-Chlorotoluene	2.9727	2.7569	2.8201	2.6892	3.0408	2.6262	2.2999	2.5677	2.3619	AVRG		0.37290		2.6817	9	15	0.050	0.99	
4-Chlorotoluene		2.5340	2.7590	2.4565	2.7650	2.4958	2.2969	2.4755	2.3438	AVRG		0.39749		2.5158	7	15	0.050	0.99	
tert-Butylbenzene	1.8184	1.8703	1.7681	1.7210	1.9081	1.7024	1.4389	1.8622	1.6795	AVRG		0.57074		1.7521	8	15	0.050	0.99	
1,2,4-Trimethylbenzene		2.5908	2.6845	2.5015	2.7800	2.5599	2.2506	2.6243	2.4256	AVRG		0.39183		2.5522	6	15	0.050	0.99	
sec-Butylbenzene	2.8295	2.8921	2.8724	2.7053	3.1829	2.7882	2.2857	3.1038	2.7281	AVRG		0.35450		2.8209	9	15	0.050	0.99	
para-Isopropyl Toluene		2.0383	2.1650	2.0973	2.3898	2.1446	1.8051	2.3663	2.0766	AVRG		0.46830		2.1354	9	15	0.050	0.99	
1,3-Dichlorobenzene		1.3386	1.3907	1.3360	1.4689	1.3010	1.2162	1.3085	1.2176	AVRG		0.75632		1.3222	6	15	0.050	0.99	
1,4-Dichlorobenzene		1.3702	1.5083	1.3831	1.4701	1.3491	1.2530	1.3837	1.3067	AVRG		0.72568		1.3780	6	15	0.050	0.99	
n-Butylbenzene		2.5100	2.5324	2.2997	2.6315	2.3407	1.8452	2.5326	2.2575	AVRG		0.42217		2.3687	11	15	0.050	0.99	
1,2-Dichlorobenzene		1.3064	1.3491	1.2802	1.3788	1.3306	1.1882	1.2639	1.2371	AVRG		0.77412		1.2918	5	15	0.050	0.99	
1,2-Dibromo-3-Chloropropane		0.2496	0.2294	0.2091	0.2298	0.2388	0.2199	0.2307	0.2275	AVRG		4.35986		0.2294	5	15	0.050	0.99	

446110313001

8260/GASOX W/CAL

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,4-Trichlorobenzene	0.7234	0.4766	0.7320	0.8329	0.8966	0.8703	0.7940	0.9221	0.8923	QUAD	-0.0478	1.23347	-0.00144	0.7933	0.998	15	0.050	0.99	
Hexachlorobutadiene		0.1436	0.2322	0.1940	0.2428	0.2213	0.1717			QUAD	0.77281	3.03223	0.313836	0.2009	0.999	15	0.050	0.99	
Naphthalene		1.0803	1.4358	1.7771	2.0373	2.1449	2.1390	2.3436		QUAD	0.18855	0.50558	-0.00045	1.8511	1.000	15	0.050	0.99	
1,2,3-Trichlorobenzene		0.5861	0.6677	0.7438	0.8649	0.8123	0.7836	0.8621	0.8382	AVRG		1.29897		0.7698	13	15	0.050	0.99	
tert-Butyl Alcohol (TBA)	0.0754m	0.0637	0.0716	0.0813	0.0791	0.0741	0.0686	0.0724	0.0732	AVRG		13.6498		0.0733	7	15	0.005	0.99	
Isopropyl Ether (DIPE)		3.0681	3.1907	3.2251	3.3620	3.2141	3.1193	3.1721	2.8926	AVRG		0.31691		3.1555	4	15	0.050	0.99	
Ethyl tert-Butyl Ether (ETBE)		2.1631	2.1518	2.2040	2.3408	2.2452	2.1237	2.1867	2.0762	AVRG		0.45736		2.1864	4	15	0.050	0.99	
Methyl tert-Amyl Ether (TAME)		1.1206	1.0971	1.0582	1.1373	1.0773	1.0617	1.0699	0.9857	AVRG		0.92939		1.0760	4	15	0.050	0.99	
Cyclohexanone			0.0923	0.1028	0.1079	0.0513	0.0802	0.1285	0.0965	AVRG		10.6168		0.0942	**26**	15	0.005	0.99	rsd
Ethanol			0.0102	0.0096	0.0104	0.0102	0.0096	0.0098	0.0094	AVRG		101.126		0.0099	4	15	0.0005	0.99	
Isopropanol			0.0523	0.0616	0.0613	0.0571	0.0534	0.0535	0.0541	AVRG		17.8010		0.0562	7	15	0.005	0.99	
Tetrahydrofuran			0.2711	0.2844	0.2878	0.2773	0.2549	0.2556	0.2362	AVRG		3.74870		0.2668	7	15	0.005	0.99	
Dibromofluoromethane	0.6811	0.6693	0.6728	0.6991	0.6885	0.6771	0.6802	0.6778	0.6714	AVRG		1.47123		0.6797	1	15	0.050	0.99	
1,2-Dichloroethane-d4	0.5296	0.5418	0.5179	0.5272	0.5432	0.5373	0.5360	0.5138	0.4934	AVRG		1.89866		0.5267	3	15	0.050	0.99	
Trifluorotoluene	0.3185	0.2918	0.3122	0.2842	0.3733	0.3151	0.2760	0.3717	0.3215	AVRG		3.14214		0.3183	11	15	0.050	0.99	
Toluene-d8	1.1512	1.1414	1.1059	1.1021	1.1543	1.1171	1.1690	1.1749	1.1331	AVRG		0.87815		1.1388	2	15	0.050	0.99	
Bromofluorobenzene	1.3752	1.3747	1.3309	1.3193	1.3093	1.2841	1.2958	1.2895	1.3286	AVRG		0.75583		1.3230	3	15	0.050	0.99	

175

m=manual integration rsd=ICAL %RSD failure

AVRG=Average response factor QUAD=Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

446110313001

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA05 Run Name: 25PPB IDF : 1.0
Seqnum : 446114231005 File : eck05 Time : 20-MAR-2006 10:15
Cal : 446110313001 Caldate : 17-MAR-2006 Caltype : WATER
Standards: S2953 (10000X), S2902 (10000X), S2616 (10000X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	0.7566	0.6819	25.00	22.53	ug/L	-10	30	m
Chloromethane	0.9272	0.9542	25.00	25.73	ug/L	3	30	
Vinyl Chloride	0.7321	0.7283	25.00	24.87	ug/L	-1	20	m
Bromomethane	0.5108	0.5268	25.00	25.78	ug/L	3	30	
Chloroethane	0.3645	0.3695	25.00	25.35	ug/L	1	30	
Trichlorofluoromethane	0.9270	0.7575	25.00	20.43	ug/L	-18	30	
Acetone	0.3180	0.3155	25.00	24.80	ug/L	-1	40	
Freon 113	0.4339	0.4067	25.00	23.44	ug/L	-6	30	
1,1-Dichloroethene	0.4322	0.4324	25.00	25.02	ug/L	0	20	
Methylene Chloride	0.5839	0.6309	25.00	27.01	ug/L	8	30	
Carbon Disulfide	1.8224	1.5895	25.00	21.80	ug/L	-13	30	
MTBE	1.8695	1.7197	25.00	23.00	ug/L	-8	30	
trans-1,2-Dichloroethene	0.5355	0.5220	25.00	24.37	ug/L	-3	30	
Vinyl Acetate	2.1116	1.8969	25.00	22.46	ug/L	-10	40	
1,1-Dichloroethane	1.1796	1.2795	25.00	27.12	ug/L	8	30	
2-Butanone	0.4949	0.5637	25.00	28.47	ug/L	14	40	
2,2-Dichloropropane	0.7743	0.9154	25.00	29.55	ug/L	18	30	
cis-1,2-Dichloroethene	0.6608	0.6978	25.00	26.40	ug/L	6	30	
Chloroform	1.1891	1.2782	25.00	26.87	ug/L	7	20	
Bromochloromethane	0.2797	0.3036	25.00	27.14	ug/L	9	30	
1,1,1-Trichloroethane	0.8559	0.8436	25.00	24.64	ug/L	-1	30	
1,1-Dichloropropene	0.4138	0.4453	25.00	26.91	ug/L	8	30	
Carbon Tetrachloride	0.3559	0.3399	25.00	23.87	ug/L	-5	30	
1,2-Dichloroethane	0.5890	0.5881	25.00	24.96	ug/L	0	30	
Benzene	1.2748	1.3026	25.00	25.54	ug/L	2	30	
Trichloroethene	0.3416	0.3389	25.00	24.80	ug/L	-1	30	
1,2-Dichloropropane	0.3774	0.4106	25.00	27.20	ug/L	9	20	
Bromodichloromethane	0.5189	0.5760	25.00	27.75	ug/L	11	30	
Dibromomethane	0.2837	0.2988	25.00	26.33	ug/L	5	30	
2-Chloroethylvinylether	0.2267	0.2992	25.00	33.00	ug/L	**32**	40	!v+
4-Methyl-2-Pentanone	0.5862	0.6330	25.00	27.00	ug/L	8	40	
Tetramethyl THF	1.1051	1.1759	25.00	26.60	ug/L	6	30	
cis-1,3-Dichloropropene	0.5998	0.6565	25.00	27.36	ug/L	9	30	
Toluene	0.7475	0.7655	25.00	25.60	ug/L	2	20	
trans-1,3-Dichloropropene	0.5760	0.6144	25.00	26.67	ug/L	7	30	
1,1,2-Trichloroethane	0.1869	0.2124	25.00	28.41	ug/L	14	30	
2-Hexanone	0.4633	0.5361	25.00	28.93	ug/L	16	40	
1,3-Dichloropropane	0.6642	0.7587	25.00	28.55	ug/L	14	30	
Tetrachloroethene	0.2714	0.2781	25.00	25.61	ug/L	2	30	
Dibromochloromethane	0.3951	0.4131	25.00	26.14	ug/L	5	30	
1,2-Dibromoethane	0.3585	0.3771	25.00	26.30	ug/L	5	30	
Chlorobenzene	0.9252	0.9242	25.00	24.97	ug/L	0	30	
1,1,1,2-Tetrachloroethane	0.3149	0.3234	25.00	25.68	ug/L	3	30	
Ethylbenzene	1.6244	1.7026	25.00	26.20	ug/L	5	20	
m,p-Xylenes	0.5816	0.6143	50.00	52.82	ug/L	6	30	
o-Xylene	0.5847	0.6269	25.00	26.80	ug/L	7	30	
Styrene	1.0352	1.1376	25.00	27.47	ug/L	10	30	
Bromoform	0.3034	0.3128	25.00	25.78	ug/L	3	30	
Isopropylbenzene	2.6775	2.6898	25.00	25.11	ug/L	0	30	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	1.1536	1.3047	25.00	28.27	ug/L	13	30	
1,2,3-Trichloropropane	1.0755	1.1484	25.00	26.69	ug/L	7	30	
Propylbenzene	3.6506	3.9318	25.00	26.93	ug/L	8	30	
Bromobenzene	0.7487	0.7418	25.00	24.77	ug/L	-1	30	
1,3,5-Trimethylbenzene	2.3982	2.4438	25.00	25.48	ug/L	2	30	
2-Chlorotoluene	2.6817	2.7811	25.00	25.93	ug/L	4	30	
4-Chlorotoluene	2.5158	2.6144	25.00	25.98	ug/L	4	30	
tert-Butylbenzene	1.7521	1.8889	25.00	26.95	ug/L	8	30	
1,2,4-Trimethylbenzene	2.5522	2.5729	25.00	25.20	ug/L	1	30	
sec-Butylbenzene	2.8209	3.1170	25.00	27.62	ug/L	10	30	
para-Isopropyl Toluene	2.1354	2.1952	25.00	25.70	ug/L	3	30	
1,3-Dichlorobenzene	1.3222	1.3971	25.00	26.42	ug/L	6	30	
1,4-Dichlorobenzene	1.3780	1.4423	25.00	26.17	ug/L	5	30	
n-Butylbenzene	2.3687	2.6431	25.00	27.90	ug/L	12	30	
1,2-Dichlorobenzene	1.2918	1.3713	25.00	26.54	ug/L	6	30	
1,2-Dibromo-3-Chloropropane	0.2294	0.2473	25.00	26.96	ug/L	8	30	
1,2,4-Trichlorobenzene	0.7933	0.9087	25.00	27.23	ug/L	9	30	
Hexachlorobutadiene	0.2009	0.2506	25.00	32.09	ug/L	**28**	30	!v+
Naphthalene	1.8511	2.3296	25.00	28.12	ug/L	12	30	
1,2,3-Trichlorobenzene	0.7698	0.8536	25.00	27.72	ug/L	11	30	
tert-Butyl Alcohol (TBA)	0.0733	0.0802	125.0	136.8	ug/L	9	30	
Isopropyl Ether (DIPE)	3.1555	3.1949	25.00	25.31	ug/L	1	30	
Ethyl tert-Butyl Ether (ETBE)	2.1864	2.3762	25.00	27.17	ug/L	9	30	
Methyl tert-Amyl Ether (TAME)	1.0760	1.0151	25.00	23.59	ug/L	-6	30	
Cyclohexanone	0.0942	0.0508	250.0	134.9	ug/L	**-46**	30	v- ***
Ethanol	0.0099	0.0122	2500	3088	ug/L	**24**	30	!v+
Isopropanol	0.0562	0.0645	250.0	287.1	ug/L	15	30	
Tetrahydrofuran	0.2668	0.3110	250.0	291.5	ug/L	17	30	

ISTD (ICAL ech10)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	533288	498887	-6.45	10.24	10.23	-0.01
1,4-Difluorobenzene	942862	906516	-3.85	11.37	11.37	0.00
Chlorobenzene-d5	845304	775485	-8.26	15.40	15.40	0.00
1,4-Dichlorobenzene-d4	434480	398768	-8.22	18.12	18.12	0.00

Q 03/20/07

B 3/12/06

!=warning +=high bias -=low bias m=manual integration v=ICV

8260/6A50X w ICAL

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 8260B

nst : MSVOA06 Name : 826GOX6W
alnum : 456098395001 Date : 09-MAR-2006 16:16 Type : WATER Inj Vol: 5000 uL
nits : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	fc915	456098395015	0.25/0.5PPB	09-MAR-2006 16:16	S2783 (1000000X), S2844 (2000000X), S2410 (2000000X), S2740 (1000X)
L2	fc916	456098395016	0.5/1PPB	09-MAR-2006 16:52	S2783 (500000X), S2844 (1000000X), S2410 (1000000X), S2740 (1000X)
L3	fc917	456098395017	2PPB	09-MAR-2006 17:27	S2783 (250000X), S2844 (250000X), S2410 (500000X), S2740 (1000X)
L4	fc918	456098395018	5PPB	09-MAR-2006 18:02	S2783 (100000X), S2844 (100000X), S2410 (200000X), S2740 (1000X)
L5	fc919	456098395019	10PPB	09-MAR-2006 18:37	S2783 (50000X), S2844 (50000X), S2410 (100000X), S2740 (1000X)
L6	fc920	456098395020	20PPB	09-MAR-2006 19:12	S2783 (25000X), S2844 (25000X), S2410 (50000X), S2740 (1000X)
L7	fc921	456098395021	50PPB	09-MAR-2006 19:47	S2783 (10000X), S2844 (10000X), S2410 (20000X), S2740 (1000X)
L8	fc922	456098395022	75PPB	09-MAR-2006 20:21	S2783 (6667X), S2844 (6667X), S2410 (13330X), S2740 (1000X)
L9	fc923	456098395023	100PPB	09-MAR-2006 20:56	S2783 (5000X), S2844 (5000X), S2410 (10000X), S2740 (1000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12	0.8680m	0.9680	0.5765m	0.8744	0.8792	0.9150	0.8965	0.9524	0.9525	AVRG		1.14177		0.8758	13	15	0.050	0.99	
Chloromethane		1.0407	0.8197	0.8861	0.8718	0.8601	0.8426	0.8646	0.8790	AVRG		1.13239		0.8831	8	15	0.10	0.99	
Vinyl Chloride		0.7171	0.6051	0.6632	0.7163	0.7452	0.6887	0.7352	0.7344	AVRG		1.42726		0.7006	7	15	0.050	0.99	
Bromomethane		0.6024	0.4323	0.3774m	0.4453	0.4379	0.4506	0.4719	0.4856	AVRG		2.16027		0.4629	14	15	0.050	0.99	
Chloroethane		0.4613m	0.3695	0.3667	0.3963	0.3751	0.3702	0.3794	0.3705	AVRG		2.58977		0.3861	8	15	0.050	0.99	
Trichlorofluoromethane	0.9028	1.0932	0.6600	0.9526	1.0108	1.0176	0.9709	1.0589	1.0651	AVRG		1.03072		0.9702	13	15	0.050	0.99	
Acetone			0.4219	0.3756	0.3368	0.3359	0.3388	0.3409	0.3619	AVRG		2.78684		0.3588	9	15	0.050	0.99	
Freon 113	0.2691m	0.5570	0.4360	0.4137	0.3677	0.6318	0.5175	0.5803	0.6012	QUAD	0.47698	1.92489	-0.00450	0.4860	0.997	15	0.050	0.99	
1,1-Dichloroethene		0.7352	0.5763	0.5128	0.5011	0.6118	0.5362	0.5891	0.5653	AVRG		1.72864		0.5785	13	15	0.050	0.99	
Methylene Chloride			0.9139	0.8434	0.8800	0.8331	0.8253	0.8177	0.7888	AVRG		1.18602		0.8432	5	15	0.050	0.99	
Carbon Disulfide	2.2837	2.6686	2.2949	2.2764	2.2065	2.5367	2.2333	2.3902	2.3117	AVRG		0.42449		2.3558	6	15	0.050	0.99	
MTBE	2.3719	2.6069	2.3672	2.3297	2.4759	2.3751	2.2817	2.2760	2.2110	AVRG		0.42263		2.3661	5	15	0.050	0.99	
trans-1,2-Dichloroethene	0.8087	0.8602	0.7243	0.6502	0.6899	0.7306	0.6509	0.6857	0.6557	AVRG		1.39398		0.7174	10	15	0.050	0.99	
Vinyl Acetate			1.9969	2.0862	2.3777	2.3751	2.1802	2.1010	1.6685	AVRG		0.47343		2.1122	12	15	0.050	0.99	
1,1-Dichloroethane	1.3957	1.3639	1.3232	1.2979	1.3981	1.3860	1.2808	1.2798	1.2290	AVRG		0.75287		1.3283	5	15	0.10	0.99	
2-Butanone			0.5173	0.5270	0.5376	0.5134	0.5002	0.4880	0.4823	AVRG		1.96307		0.5094	4	15	0.050	0.99	
2,2-Dichloropropane	0.9564	0.9889	0.8727	0.8184	0.8080	0.8908	0.8009	0.8201	0.7889	AVRG		1.16202		0.8606	8	15	0.050	0.99	
cis-1,2-Dichloroethene	0.9107	1.1319	0.8972	0.7496	0.8309	0.8146	0.7717	0.7577	0.7354	AVRG		1.18426		0.8444	15	15	0.050	0.99	
Chloroform	1.3805	1.3756	1.3398	1.2327	1.3778	1.3326	1.2646	1.2664	1.2263	AVRG		0.76295		1.3107	5	15	0.050	0.99	
Bromochloromethane	0.4203	0.4021	0.3837	0.3777	0.4174	0.4032	0.3915	0.3833	0.3676	AVRG		2.53746		0.3941	5	15	0.050	0.99	
1,1,1-Trichloroethane		1.0081	0.8067	0.8058	0.8046	0.9240	0.8224	0.8722	0.8424	AVRG		1.16175		0.8608	8	15	0.050	0.99	
1,1-Dichloropropene	0.4858	0.5312	0.4502	0.4425	0.3977	0.5194	0.4552	0.4808	0.4704	AVRG		2.12606		0.4704	9	15	0.050	0.99	
Carbon Tetrachloride		0.3073	0.2921	0.2937	0.2606	0.3804	0.3380	0.3706	0.3665	AVRG		3.06619		0.3261	13	15	0.050	0.99	
1,2-Dichloroethane	0.4942	0.5146	0.5630	0.5277	0.5457	0.5374	0.5191	0.5090	0.4981	AVRG		1.91131		0.5232	4	15	0.050	0.99	

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456098395001

* ICAL - 2CLEVE fails min RF 12/10/06
* ICV - OK, USACE - sec-butben↑, n-butben↑, Hxclben↑

03/13/06

8260/6A5A w ICAL

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2	Max %RSD	Min RF	Min r^2	Flg
Benzene	1.6327	1.7415	1.5949	1.5390	1.5479	1.6182	1.4706	1.4944	1.4202	AVRG		0.64014		1.5622	6	15	0.050	0.99	
Trichloroethene	0.3756	0.3562	0.3979	0.3748	0.3444	0.3855	0.3552	0.3686	0.3644	AVRG		2.70866		0.3692	4	15	0.050	0.99	
1,2-Dichloropropane	0.4914	0.4838	0.4456	0.4445	0.4699	0.4661	0.4333	0.4225	0.4047	AVRG		2.21578		0.4513	6	15	0.050	0.99	
Bromodichloromethane	0.4830	0.5465	0.5319	0.5177	0.5563	0.5546	0.5379	0.5303	0.5163	AVRG		1.88501		0.5305	4	15	0.050	0.99	
Dibromomethane	0.3219	0.2846	0.3084	0.3282	0.3310	0.3215	0.3095	0.3076	0.2984	AVRG		3.20146		0.3124	5	15	0.050	0.99	
2-Chloroethylvinylether				0.0290	0.0425	0.0536	0.0254	0.0156	0.0146	AVRG		33.2104		0.0301	51	15	0.050	0.99	irf rsd ***
4-Methyl-2-Pentanone			0.5392	0.5694	0.5708	0.5734	0.5627	0.5453	0.5209	AVRG		1.80333		0.5545	4	15	0.050	0.99	
Tetramethyl THF	0.9159	0.9813	0.9650	1.0086	1.0453	1.0237	0.9698	0.9221	0.8787	AVRG		1.03322		0.9678	6	15	0.050	0.99	
cis-1,3-Dichloropropene	0.6435	0.6884	0.7029	0.6696	0.7113	0.7213	0.6799	0.6556	0.6275	AVRG		1.47543		0.6778	5	15	0.050	0.99	
Toluene	0.9220	0.9482	0.8704	0.8678	0.8594	0.9253	0.8658	0.8502	0.8110	AVRG		1.13637		0.8800	5	15	0.050	0.99	
trans-1,3-Dichloropropene	0.6287	0.5668	0.6534	0.6399	0.6423	0.6569	0.6248	0.6181	0.5994	AVRG		1.59850		0.6256	5	15	0.050	0.99	
1,1,2-Trichloroethane	0.2389	0.2273	0.2398	0.2266	0.2371	0.2267	0.2268	0.2233	0.2084	AVRG		4.37964		0.2283	4	15	0.050	0.99	
2-Hexanone			0.4755	0.4579	0.4988	0.4708	0.4743	0.4590	0.4522	AVRG		2.12866		0.4698	3	15	0.050	0.99	
1,3-Dichloropropane	0.8071	0.8843	0.8389	0.8337	0.8725	0.8567	0.8344	0.8163	0.7853	AVRG		1.19534		0.8366	4	15	0.050	0.99	
Tetrachloroethene	0.2946	0.3850	0.3426	0.3281	0.2957	0.3734	0.3402	0.3726	0.3683	AVRG		2.90285		0.3445	10	15	0.050	0.99	
Dibromochloromethane		0.4320	0.4554	0.4456	0.4904	0.4897	0.4855	0.5015	0.4889	AVRG		2.11142		0.4736	5	15	0.050	0.99	
1,2-Dibromoethane	0.4131	0.4720	0.4227	0.4372	0.4254	0.4444	0.4276	0.4156	0.4013	AVRG		2.33205		0.4288	5	15	0.050	0.99	
Chlorobenzene	1.1003	1.1189	1.1375	1.0887	1.1030	1.1325	1.0837	1.0870	1.0463	AVRG		0.90929		1.0998	3	15	0.30	0.99	
1,1,1,2-Tetrachloroethane	0.4216	0.4183	0.4392	0.3942	0.4086	0.4121	0.3960	0.3993	0.3792	AVRG		2.45334		0.4076	4	15	0.050	0.99	
Ethylbenzene	1.7509	1.9418	1.7223	1.7955	1.8120	1.9422	1.7826	1.8095	1.7055	AVRG		0.55342		1.8069	5	15	0.050	0.99	
m,p-Xylenes	0.6465	0.6812	0.6719	0.6486	0.6238	0.6676	0.6196	0.6283	0.5981	AVRG		1.55558		0.6428	4	15	0.050	0.99	
o-Xylene	0.6716	0.6655	0.6582	0.6666	0.6714	0.6702	0.6379	0.6472	0.6196	AVRG		1.52326		0.6565	3	15	0.050	0.99	
Styrene	1.1253	1.1203	1.1839	1.1608	1.2220	1.1939	1.1716	1.1703	1.1136	AVRG		0.86028		1.1624	3	15	0.050	0.99	
Bromoform		0.4158	0.3725	0.3668	0.3776	0.3781	0.3815	0.3951	0.3865	AVRG		2.60262		0.3842	4	15	0.10	0.99	
Isopropylbenzene	3.0450	3.7105	2.9352	2.9640	2.6546	3.1567	2.9111	2.9636	2.8824	AVRG		0.33060		3.0248	10	15	0.050	0.99	
1,1,2,2-Tetrachloroethane	1.4511	1.5750	1.5714	1.5398	1.5179	1.5289	1.4592	1.4001	1.2839	AVRG		0.67530		1.4808	6	15	0.30	0.99	
1,2,3-Trichloropropane		1.3699	1.2860	1.3461	1.2292	1.1989	1.1012	1.1063	1.0055	AVRG		0.82961		1.2054	11	15	0.050	0.99	
Propylbenzene	4.0372	4.5130	3.7305	3.6589	3.2640	3.9504	3.4912	3.6230	3.4066	AVRG		0.26726		3.7416	10	15	0.050	0.99	
Bromobenzene		1.1139	1.0469	1.0733	1.0018	1.0426	0.9966	0.9976	0.9548	AVRG		0.97236		1.0284	5	15	0.050	0.99	
1,3,5-Trimethylbenzene	2.2600	2.1966	2.2475	2.1688	2.0293	2.3001	2.1633	2.2516	2.1361	AVRG		0.45562		2.1948	4	15	0.050	0.99	
2-Chlorotoluene		3.4188	3.0168	2.8451	2.7407	2.8866	2.6995	2.7496	2.5443	AVRG		0.34932		2.8627	9	15	0.050	0.99	
4-Chlorotoluene		3.0431	2.7497	2.6703	2.5756	2.6852	2.5424	2.5817	2.4097	AVRG		0.37633		2.6572	7	15	0.050	0.99	
tert-Butylbenzene	1.8662	1.9510	1.7346	1.7486	1.5081	1.8648	1.7394	1.8192	1.7691	AVRG		0.56246		1.7779	7	15	0.050	0.99	
1,2,4-Trimethylbenzene	2.1543	1.9648	2.0970	2.0597	1.9258	2.1315	2.1157	2.2225	2.1158	AVRG		0.47905		2.0875	4	15	0.050	0.99	
sec-Butylbenzene	2.3308	2.6293	2.4399	2.3495	2.0214	2.7492	2.5343	2.6894	2.6025	AVRG		0.40275		2.4829	9	15	0.050	0.99	
para-Isopropyl Toluene	1.5801	1.7641	1.6028	1.6276	1.4714	1.8970	1.7755	1.9361	1.9108	AVRG		0.57820		1.7295	10	15	0.050	0.99	
1,3-Dichlorobenzene		1.6988	1.5733	1.5941	1.5727	1.5986	1.5691	1.5947	1.5144	AVRG		0.62914		1.5895	3	15	0.050	0.99	
1,4-Dichlorobenzene		1.7472	1.6169	1.6416	1.5713	1.6334	1.5981	1.6118	1.5410	AVRG		0.61722		1.6202	4	15	0.050	0.99	
n-Butylbenzene	1.2556m	1.2680	1.1694	1.2384	1.1150	1.5480	1.4932	1.6751		AVRG		0.74330		1.3453	15	15	0.050	0.99	
1,2-Dichlorobenzene	1.6166	1.5880	1.6074	1.5255	1.5923	1.6263	1.5827	1.6034	1.5227	AVRG		0.63091		1.5850	2	15	0.050	0.99	
1,2-Dibromo-3-Chloropropane		0.4470	0.2579	0.2564	0.2580	0.2398	0.2539	0.2490	0.2346	QUAD	0.47192	3.56985	0.026979	0.2746	0.999	15	0.050	0.99	

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456098395001

8260/GASDA w ICAL

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
,2,4-Trichlorobenzene		0.2944	0.2500	0.3087	0.3271	0.4092	0.4596	0.5190		QUAD	0.92464	2.49106	-0.01515	0.3669	1.000	15	0.050	0.99	
Hexachlorobutadiene		0.1187	0.1187	0.1651	0.1497	0.2176	0.1989	0.2202		QUAD	0.60549	5.24561	-0.04346	0.1698	0.998	15	0.050	0.99	
Naphthalene		0.9088	1.1015	1.2352	1.2876	1.4547	1.5128	1.6406		QUAD	0.38280	0.72437	-0.00095	1.3059	1.000	15	0.050	0.99	
,2,3-Trichlorobenzene		0.0995	0.1978	0.2610	0.3083	0.3840	0.4492	0.4988		QUAD	1.33161	2.52321	-0.01492	0.3141	0.999	15	0.050	0.99	
tert-Butyl Alcohol (TBA)		0.0818	0.0805	0.0738	0.0815	0.0735	0.0736	0.0724	0.0699	AVRG		13.1818		0.0759	6	15	0.005	0.99	
Isopropyl Ether (DIPE)	3.2567	3.3956	3.2417	3.2117	3.3782	3.2997	3.1147	3.0586	2.9453	AVRG		0.31139		3.2114	5	15	0.050	0.99	
Ethyl tert-Butyl Ether (ETBE)	2.3188	2.6225	2.2969	2.3394	2.5024	2.4089	2.3275	2.2862	2.2246	AVRG		0.42200		2.3697	5	15	0.050	0.99	
Methyl tert-Amyl Ether (TAME)	1.2958	1.2847	1.2257	1.2293	1.2872	1.2825	1.2181	1.1963	1.1444	AVRG		0.80616		1.2404	4	15	0.050	0.99	
Ethanol			0.0110	0.0102	0.0106	0.0105	0.0104	0.0099	0.0093	AVRG		97.4264		0.0103	5	15	0.0005	0.99	
Isopropanol			0.0559	0.0548	0.0603	0.0557	0.0549	0.0526	0.0503	AVRG		18.2030		0.0549	6	15	0.005	0.99	
Tetrahydrofuran		0.3409	0.3051	0.2903	0.2975	0.2769	0.2565	0.2379	0.2247	AVRG		3.58787		0.2787	14	15	0.005	0.99	
Dibromofluoromethane	0.6644	0.6697	0.6638	0.6731	0.6917	0.6728	0.6624	0.6531	0.6477	AVRG		1.50037		0.6665	2	15	0.050	0.99	
1,2-Dichloroethane-d4	0.4089	0.4041	0.4036	0.4047	0.4117	0.4195	0.3956	0.3924	0.3907	AVRG		2.47863		0.4034	2	15	0.050	0.99	
Trifluorotoluene	0.3443	0.4122	0.3901	0.3862	0.3403	0.4826	0.4069	0.4535	0.4452	AVRG		2.45821		0.4068	12	15	0.050	0.99	
Toluene-d8	1.0901	1.0831	1.0992	1.0967	1.0656	1.1116	1.0928	1.0808	1.0799	AVRG		0.91840		1.0888	1	15	0.050	0.99	
Bromofluorobenzene	1.2572	1.2682	1.1891	1.2097	1.1794	1.1768	1.1763	1.1778	1.1406	AVRG		0.83526		1.1972	3	15	0.050	0.99	

for incomplete integration in target

Irf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure

AVRG=Average response factor QUAD=Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

8260/6ARSX w/ICBL

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA06 Run Name: 25PPB IDF : 1.0
Seqnum : 456098395024 File : fc924 Time : 09-MAR-2006 21:30
Cal : 456098395001 Caldate : 09-MAR-2006 Caltype : WATER
Standards: S2807 (10000X), S2740 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	0.8758	0.7055	25.00	20.14	ug/L	-19	30	
Chloromethane	0.8831	0.8040	25.00	22.76	ug/L	-9	30	
Vinyl Chloride	0.7006	0.6130	25.00	21.87	ug/L	-13	20	
Bromomethane	0.4629	0.4255	25.00	22.98	ug/L	-8	30	
Chloroethane	0.3861	0.3493	25.00	22.61	ug/L	-10	30	
Trichlorofluoromethane	0.9702	0.8571	25.00	22.09	ug/L	-12	30	

ISTD (ICAL fc921)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	957753	1022053	6.71	12.35	12.35	0.00
1,4-Difluorobenzene	1704082	1828587	7.31	13.66	13.67	0.01
1,4-Dichlorobenzene-d4	701343	686381	-2.13	21.16	21.17	0.01

3/10/06

03/13/07

8260/6ARDX w 10x

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA06 Run Name: 25PPB IDF : 1.0
Seqnum : 456098395025 File : fc925 Time : 09-MAR-2006 22:05
Cal : 456098395001 Caldate : 09-MAR-2006 Caltype : WATER
Standards: S2829 (10000X), S2616 (10000X), S2740 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Acetone	0.3588	0.3207	25.00	22.34	ug/L	-11	40	
Freon 113	0.4860	0.5646	25.00	26.75	ug/L	7	30	
1,1-Dichloroethene	0.5785	0.6442	25.00	27.84	ug/L	11	20	
Methylene Chloride	0.8432	0.8715	25.00	25.84	ug/L	3	30	
Carbon Disulfide	2.3558	2.0922	25.00	22.20	ug/L	-11	30	
MTBE	2.3661	2.0964	25.00	22.15	ug/L	-11	30	
trans-1,2-Dichloroethene	0.7174	0.7242	25.00	25.24	ug/L	1	30	
Vinyl Acetate	2.1122	1.8626	25.00	22.05	ug/L	-12	40	
1,1-Dichloroethane	1.3283	1.3711	25.00	25.81	ug/L	3	30	
2-Butanone	0.5094	0.4759	25.00	23.36	ug/L	-7	40	
2,2-Dichloropropane	0.8606	0.8416	25.00	24.45	ug/L	-2	30	
cis-1,2-Dichloroethene	0.8444	0.8337	25.00	24.68	ug/L	-1	30	
Chloroform	1.3107	1.3268	25.00	25.31	ug/L	1	20	
Bromochloromethane	0.3941	0.4178	25.00	26.51	ug/L	6	30	
1,1,1-Trichloroethane	0.8608	0.9237	25.00	26.83	ug/L	7	30	
1,1-Dichloropropene	0.4704	0.5267	25.00	28.00	ug/L	12	30	
Carbon Tetrachloride	0.3261	0.3791	25.00	29.06	ug/L	16	30	
1,2-Dichloroethane	0.5232	0.5577	25.00	26.65	ug/L	7	30	
Benzene	1.5622	1.6037	25.00	25.67	ug/L	3	30	
Trichloroethene	0.3692	0.4055	25.00	27.46	ug/L	10	30	
1,2-Dichloropropane	0.4513	0.4670	25.00	25.87	ug/L	3	20	
Bromodichloromethane	0.5305	0.5960	25.00	28.09	ug/L	12	30	
Dibromomethane	0.3124	0.3284	25.00	26.28	ug/L	5	30	
2-Chloroethylvinylether	0.0301	0.0373	25.00	30.98	ug/L	24	40	
4-Methyl-2-Pentanone	0.5545	0.5477	25.00	24.69	ug/L	-1	40	
Tetramethyl THF	0.9678	0.9678	25.00	25.00	ug/L	0	30	
cis-1,3-Dichloropropene	0.6778	0.7226	25.00	26.65	ug/L	7	30	
Toluene	0.8800	0.9281	25.00	26.37	ug/L	5	20	
trans-1,3-Dichloropropene	0.6256	0.6188	25.00	24.73	ug/L	-1	30	
1,1,2-Trichloroethane	0.2283	0.2384	25.00	26.10	ug/L	4	30	
2-Hexanone	0.4698	0.4572	25.00	24.33	ug/L	-3	40	
1,3-Dichloropropane	0.8366	0.8871	25.00	26.51	ug/L	6	30	
Tetrachloroethene	0.3445	0.4018	25.00	29.16	ug/L	17	30	
Dibromochloromethane	0.4736	0.5292	25.00	27.93	ug/L	12	30	
1,2-Dibromoethane	0.4288	0.4408	25.00	25.70	ug/L	3	30	
Chlorobenzene	1.0998	1.2031	25.00	27.35	ug/L	9	30	
1,1,1,2-Tetrachloroethane	0.4076	0.4291	25.00	26.32	ug/L	5	30	
Ethylbenzene	1.8069	1.9826	25.00	27.43	ug/L	10	20	
m,p-Xylenes	0.6428	0.7003	50.00	54.46	ug/L	9	30	
o-Xylene	0.6565	0.7345	25.00	27.97	ug/L	12	30	
Styrene	1.1624	1.2711	25.00	27.34	ug/L	9	30	
Bromoform	0.3842	0.3988	25.00	25.95	ug/L	4	30	
Isopropylbenzene	3.0248	3.1560	25.00	26.08	ug/L	4	30	
1,1,2,2-Tetrachloroethane	1.4808	1.5428	25.00	26.05	ug/L	4	30	
1,2,3-Trichloropropane	1.2054	1.2151	25.00	25.20	ug/L	1	30	
Propylbenzene	3.7416	4.1461	25.00	27.70	ug/L	11	30	
Bromobenzene	1.0284	1.0770	25.00	26.18	ug/L	5	30	
1,3,5-Trimethylbenzene	2.1948	2.4158	25.00	27.52	ug/L	10	30	
2-Chlorotoluene	2.8627	3.1165	25.00	27.22	ug/L	9	30	

8260/6450X w ICAL

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
4-Chlorotoluene	2.6572	2.7919	25.00	26.27	ug/L	5	30	
tert-Butylbenzene	1.7779	2.0905	25.00	29.40	ug/L	18	30	
1,2,4-Trimethylbenzene	2.0875	2.2982	25.00	27.52	ug/L	10	30	
sec-Butylbenzene	2.4829	3.0149	25.00	30.36	ug/L	21	30	!v+
para-Isopropyl Toluene	1.7295	1.9878	25.00	28.73	ug/L	15	30	
1,3-Dichlorobenzene	1.5895	1.7328	25.00	27.25	ug/L	9	30	
1,4-Dichlorobenzene	1.6202	1.7428	25.00	26.89	ug/L	8	30	
n-Butylbenzene	1.3453	1.7100	25.00	31.78	ug/L	27	30	!v+
1,2-Dichlorobenzene	1.5850	1.7149	25.00	27.05	ug/L	8	30	
1,2-Dibromo-3-Chloropropane	0.2746	0.2574	25.00	24.56	ug/L	-2	30	
1,2,4-Trichlorobenzene	0.3669	0.4580	25.00	27.46	ug/L	10	30	
Hexachlorobutadiene	0.1698	0.2538	25.00	32.14	ug/L	29	30	!v+
Naphthalene	1.3059	1.4870	25.00	25.99	ug/L	4	30	
1,2,3-Trichlorobenzene	0.3141	0.4352	25.00	27.02	ug/L	8	30	
tert-Butyl Alcohol (TBA)	0.0759	0.0664	125.0	109.5	ug/L	-12	30	
Isopropyl Ether (DIPE)	3.2114	2.9536	25.00	22.99	ug/L	-8	30	
Ethyl tert-Butyl Ether (ETBE)	2.3697	2.4151	25.00	25.48	ug/L	2	30	
Methyl tert-Amyl Ether (TAME)	1.2404	1.2070	25.00	24.33	ug/L	-3	30	
Ethanol	0.0103	0.0087	2500	2113	ug/L	-15	30	
Isopropanol	0.0549	0.0484	250.0	220.2	ug/L	-12	30	
Tetrahydrofuran	0.2787	0.2617	250.0	234.8	ug/L	-6	30	

ISTD (ICAL fc921)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	957753	988539	3.21	12.35	12.36	0.01
1,4-Difluorobenzene	1704082	1746226	2.47	13.66	13.67	0.01
Chlorobenzene-d5	1422227	1446564	1.71	18.32	18.33	0.01
1,4-Dichlorobenzene-d4	701343	702193	0.12	21.16	21.17	0.01

03/13/06

03/13/06

!=warning +=high bias v=ICV

8260/645SX w ICAL

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 8260B

Inst : MSVOA09 Name : 826GOX9W
Calnum : 486109916001 Date : 17-MAR-2006 13:19 Type : WATER Inj Vol: 5000 uL
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	ich08	486109916008	0.25/0.5PPB	17-MAR-2006 13:19	S2844 (2000000X), S2783 (1000000X), S2410 (2000000X), S2743 (1000X)
L2	ich09	486109916009	0.5/1PPB	17-MAR-2006 13:53	S2844 (1000000X), S2783 (500000X), S2410 (1000000X), S2743 (1000X)
L3	ich10	486109916010	2PPB	17-MAR-2006 14:29	S2844 (250000X), S2783 (250000X), S2410 (500000X), S2743 (1000X)
L4	ich11	486109916011	5PPB	17-MAR-2006 15:04	S2844 (100000X), S2783 (100000X), S2410 (200000X), S2743 (1000X)
L5	ich12	486109916012	10PPB	17-MAR-2006 15:39	S2844 (50000X), S2783 (50000X), S2410 (100000X), S2743 (1000X)
L6	ich13	486109916013	20PPB	17-MAR-2006 16:14	S2844 (25000X), S2783 (25000X), S2410 (50000X), S2743 (1000X)
L7	ich14	486109916014	50PPB	17-MAR-2006 16:48	S2844 (10000X), S2783 (10000X), S2410 (20000X), S2743 (1000X)
L8	ich15	486109916015	75PPB	17-MAR-2006 17:25	S2844 (6667X), S2783 (6667X), S2410 (13330X), S2743 (1000X)
L9	ich16	486109916016	100PPB	17-MAR-2006 17:59	S2844 (5000X), S2783 (5000X), S2410 (10000X), S2743 (1000X)

* ICAL - OK
* - high pt dropped for TBA
- 2 for Hexachlorobutadiene (high pts)
* ICV - Hexachlorobutadiene, Cyclohexanone
Worst - CS2

12/3/2006

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12	1.4596m	1.4498m	1.1910m	1.2715	1.6658	1.4096	1.4677	1.5836	1.4301	AVRG		0.69612		1.4365	10	15	0.050	0.99	
Chloromethane	2.3742m	2.3055m	2.1986m	2.0721	2.4750	2.1663	2.0305	2.0099	1.8188	AVRG		0.46270		2.1612	9	15	0.10	0.99	
Vinyl Chloride	1.7412m	1.7331m	1.6110m	1.5496	1.9474	1.6941	1.6753	1.7787	1.5976	AVRG		0.58716		1.7031	7	15	0.050	0.99	
Bromomethane	0.4844m	0.4272m	0.5713m	0.5552m	0.6988	0.7023	0.7958	0.8590	0.8418	QUAD	1.01905	1.25796	-0.00114	0.6595	0.999	15	0.050	0.99	
Chloroethane	0.9810m	0.9439	0.8955	0.8852m	1.0739	0.9373	0.9346	0.9614	0.8931	AVRG		1.05809		0.9451	6	15	0.050	0.99	
Trichlorofluoromethane	1.8571	1.8811	1.5088	1.5055	1.9515	1.6730	1.6648	1.8109	1.7057	AVRG		0.57847		1.7287	9	15	0.050	0.99	
Acetone			0.4358	0.4592	0.5027	0.5056	0.4825	0.4590	0.4519	AVRG		2.12339		0.4709	6	15	0.050	0.99	
Freon 113		1.0297	0.9127	0.8376	1.1322	1.0349	0.8830	1.2389	1.1159	AVRG		0.97740		1.0231	13	15	0.050	0.99	
1,1-Dichloroethene		0.9900	0.9726	0.8985	1.1236	1.0100	0.9417	1.0375	0.9983	AVRG		1.00350		0.9965	7	15	0.050	0.99	
Methylene Chloride			1.4663	1.3637	1.4813	1.3892	1.3470	1.3132	1.2817	AVRG		0.72596		1.3775	5	15	0.050	0.99	
Carbon Disulfide	4.4291	4.4461	4.3851	3.9891	4.9212	4.4491	4.1226	4.3948	4.1535	AVRG		0.22906		4.3656	6	15	0.050	0.99	
MTBE	3.4380	3.3440	3.4755	3.3817	3.7561	3.5978	3.5509	3.4796	3.4088	AVRG		0.28633		3.4925	4	15	0.050	0.99	
trans-1,2-Dichloroethene	1.2411	1.2695	1.1800	1.1996	1.3984	1.2385	1.1784	1.1964	1.1839	AVRG		0.81185		1.2317	6	15	0.050	0.99	
Vinyl Acetate			3.2336m	3.0503	3.0576	3.2400	2.9773	3.0411	2.6690	AVRG		0.32912		3.0384	6	15	0.050	0.99	
1,1-Dichloroethane	2.1191	2.1683	2.3190	2.2072	2.5623	2.2861	2.1898	2.1154	2.0644	AVRG		0.44929		2.2257	7	15	0.10	0.99	
2-Butanone				0.6432	0.7104	0.6854	0.6847	0.6635	0.6142	AVRG		1.49944		0.6669	5	15	0.050	0.99	
2,2-Dichloropropane	1.2240	1.2916	1.3623	1.2996	1.4950	1.3931	1.2477	1.3378	1.2800	AVRG		0.75433		1.3257	6	15	0.050	0.99	
cis-1,2-Dichloroethene	1.3442	1.3485	1.4189	1.3069	1.4757	1.3885	1.3314	1.2948	1.2919	AVRG		0.73766		1.3556	5	15	0.050	0.99	
Chloroform	2.2842	2.1476	2.0973	1.9996	2.2676	2.0790	1.9852	1.9363	1.9285	AVRG		0.48063		2.0806	6	15	0.050	0.99	
Bromochloromethane	0.6067	0.5749	0.6691	0.6530	0.7179	0.6770	0.6630	0.6456	0.6395	AVRG		1.53933		0.6496	6	15	0.050	0.99	
1,1,1-Trichloroethane	1.5382	1.3380	1.4097	1.3123	1.5694	1.4183	1.2786	1.4150	1.3598	AVRG		0.71206		1.4044	7	15	0.050	0.99	
1,1-Dichloropropene		0.8464	0.8545	0.7844	0.9696	0.8772	0.7903	0.8906	0.8336	AVRG		1.16848		0.8558	7	15	0.050	0.99	
Carbon Tetrachloride	0.5885	0.6530	0.6242	0.6013	0.7160	0.6544	0.5918	0.7006	0.6596	AVRG		1.55457		0.6433	7	15	0.050	0.99	
1,2-Dichloroethane	0.8293	0.7986	0.8341	0.8131	0.8524	0.8401	0.8103	0.7864	0.7733	AVRG		1.22654		0.8153	3	15	0.050	0.99	

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8260/624 µ w ICAL

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene	3.0139	2.9116	2.8380	2.6831	3.0934	2.8437	2.6781	2.6239	2.5732	AVRG		0.35631		2.8066	6	15	0.050	0.99	
Trichloroethene	0.6424	0.7013	0.6722	0.6397	0.7621	0.6744	0.6411	0.6550	0.6524	AVRG		1.48994		0.6712	6	15	0.050	0.99	
1,2-Dichloropropane	0.7500	0.7593	0.7931	0.7900	0.8703	0.8177	0.7816	0.7398	0.7111	AVRG		1.28334		0.7792	6	15	0.050	0.99	
Bromodichloromethane	0.8943	0.7953	0.8570	0.8382	0.9375	0.8949	0.8717	0.8475	0.8396	AVRG		1.15742		0.8640	5	15	0.050	0.99	
Dibromomethane		0.4906	0.4704	0.4889	0.5215	0.5072	0.5025	0.4835	0.4768	AVRG		2.02970		0.4927	3	15	0.050	0.99	
2-Chloroethylvinylether				0.2695	0.2943	0.3036	0.3038	0.3117	0.2821	AVRG		3.39941		0.2942	5	15	0.050	0.99	
4-Methyl-2-Pentanone				0.7157	0.7596	0.7684	0.7685	0.7654	0.6877	AVRG		1.34366		0.7442	5	15	0.050	0.99	
Tetramethyl THF	1.2705m	1.3148m	1.4218m	1.4064	1.4797	1.4998	1.4678	1.4003	1.2913	AVRG		0.71699		1.3947	6	15	0.050	0.99	
cis-1,3-Dichloropropene	1.1175	1.1143	1.1736	1.1236	1.2599	1.2038	1.1530	1.0983	1.0813	AVRG		0.87165		1.1472	5	15	0.050	0.99	
Toluene	1.6006	1.6032	1.5833	1.5613	1.7954	1.6527	1.5441	1.5705	1.5079	AVRG		0.62417		1.6021	5	15	0.050	0.99	
trans-1,3-Dichloropropene	0.9470	0.9700	0.9638	0.9784	1.0661	1.0496	1.0204	0.9928	0.9667	AVRG		1.00505		0.9950	4	15	0.050	0.99	
1,1,2-Trichloroethane	0.3316	0.3338	0.3538	0.3581	0.3725	0.3586	0.3529	0.3469	0.3364	AVRG		2.86210		0.3494	4	15	0.050	0.99	
2-Hexanone				0.5796	0.6335	0.6373	0.6542	0.6451	0.5993	AVRG		1.60042		0.6248	5	15	0.050	0.99	
1,3-Dichloropropane	1.3903	1.2848	1.3744	1.3693	1.4448	1.4144	1.3911	1.3378	1.3153	AVRG		0.73039		1.3691	4	15	0.050	0.99	
Tetrachloroethene	0.6198	0.7412	0.6500	0.6465	0.7799	0.6913	0.6285	0.7453	0.7215	AVRG		1.44603		0.6915	8	15	0.050	0.99	
Dibromochloromethane	0.8529	0.7490	0.8354	0.8527	0.8923	0.8714	0.8777	0.8489	0.8538	AVRG		1.17892		0.8482	5	15	0.050	0.99	
1,2-Dibromoethane	0.7080	0.6569	0.7022	0.7061	0.7459	0.7460	0.7333	0.7140	0.6910	AVRG		1.40548		0.7115	4	15	0.050	0.99	
Chlorobenzene	2.3658	2.3905	2.2882	2.1615	2.4230	2.2476	2.1710	2.1497	2.0933	AVRG		0.44355		2.2545	5	15	0.30	0.99	
1,1,1,2-Tetrachloroethane	0.7235	0.7582	0.7378	0.7465	0.8051	0.7601	0.7390	0.7205	0.7107	AVRG		1.34300		0.7446	4	15	0.050	0.99	
Ethylbenzene	3.6185	3.6820	3.6295	3.5753	4.0225	3.6497	3.3672	3.5124	3.2776	AVRG		0.27834		3.5927	6	15	0.050	0.99	
m,p-Xylenes	1.2131	1.3241	1.3859	1.3380	1.5192	1.3917	1.2771	1.3156	1.2349	AVRG		0.75002		1.3333	7	15	0.050	0.99	
o-Xylene	1.3537	1.3424	1.3738	1.3213	1.4941	1.3832	1.3124	1.3156	1.2719	AVRG		0.73963		1.3520	5	15	0.050	0.99	
Styrene	2.1298	2.1607	2.2832	2.3602	2.6155	2.4596	2.3903	2.3455	2.2826	AVRG		0.42801		2.3364	6	15	0.050	0.99	
Bromoform	0.6239	0.6283	0.5935	0.5888	0.6258	0.6248	0.6317	0.6176	0.6098	AVRG		1.62332		0.6160	3	15	0.10	0.99	
Isopropylbenzene	7.1021	7.3496	6.7485	6.6122	7.9115	7.1914	6.4550	7.4067	6.9653	AVRG		0.14119		7.0825	6	15	0.050	0.99	
1,1,2,2-Tetrachloroethane	2.4170	2.4824	2.5610	2.5053	2.5750	2.5306	2.4536	2.4768	2.3579	AVRG		0.40251		2.4844	3	15	0.30	0.99	
1,2,3-Trichloropropane		0.5796	0.6350	0.6042	0.6448	0.6337	0.6217	0.6148	0.5837	AVRG		1.62690		0.6147	4	15	0.050	0.99	
Propylbenzene	8.6272	9.5487	8.5541	8.5777	10.138	9.1856	8.0743	9.1880	8.5930	AVRG		0.11182		8.9430	7	15	0.050	0.99	
Bromobenzene	2.0653	2.1073	1.9658	1.9069	2.1252	2.0130	1.9683	1.9848	1.9819	AVRG		0.49673		2.0132	4	15	0.050	0.99	
1,3,5-Trimethylbenzene	5.4451	5.9822	5.5241	5.5387	6.4415	6.0374	5.4209	5.9357	5.6141	AVRG		0.17328		5.7711	6	15	0.050	0.99	
2-Chlorotoluene	6.0411	6.2109	6.2346	6.0006	6.8652	6.3441	5.9110	6.0647	5.8198	AVRG		0.16219		6.1658	5	15	0.050	0.99	
4-Chlorotoluene	6.0521	5.9535	5.8409	5.6779	6.3836	5.8608	5.5953	5.6436	5.4354	AVRG		0.17161		5.8270	5	15	0.050	0.99	
tert-Butylbenzene	4.6133	4.5704	4.3029	4.2818	5.0859	4.6801	3.9854	4.9093	4.5410	AVRG		0.21967		4.5522	7	15	0.050	0.99	
1,2,4-Trimethylbenzene	5.7529	5.4546	5.6523	5.7321	6.6000	6.1689	5.5963	5.9721	5.7916	AVRG		0.17071		5.8579	6	15	0.050	0.99	
sec-Butylbenzene	6.3269	7.1340	6.8308	6.4623	8.0864	7.4917	6.2483	7.8342	7.0884	AVRG		0.14173		7.0559	9	15	0.050	0.99	
para-Isopropyl Toluene	4.7325	5.0890	5.0645	5.0737	6.1937	5.7693	4.8890	5.9326	5.4757	AVRG		0.18664		5.3578	9	15	0.050	0.99	
1,3-Dichlorobenzene	3.6538	3.3866	3.4475	3.3958	3.7476	3.6270	3.4290	3.5404	3.4559	AVRG		0.28406		3.5204	4	15	0.050	0.99	
1,4-Dichlorobenzene	3.8617	3.4936	3.5871	3.5518	3.9129	3.7465	3.5556	3.6211	3.5730	AVRG		0.27353		3.6559	4	15	0.050	0.99	
n-Butylbenzene		4.4626	4.3192	4.5090	5.7479	5.3739	4.4574	5.4484	5.0420	AVRG		0.20325		4.9201	11	15	0.050	0.99	
1,2-Dichlorobenzene	3.5236	3.1587	3.2644	3.2004	3.5912	3.4082	3.2852	3.2980	3.2313	AVRG		0.30039		3.3290	4	15	0.050	0.99	
1,2-Dibromo-3-Chloropropane		0.2295	0.3467	0.3881	0.4033	0.3787	0.3535	0.3466	0.3306	AVRG		2.88076		0.3471	15	15	0.050	0.99	

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8260/6450D LW 10/L

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,4-Trichlorobenzene	1.0288	0.9366	1.1720	1.4340	1.7657	1.7322	1.6154	1.7073	1.7123	QUAD	0.08918	0.61412	-0.00018	1.4560	1.000	15	0.050	0.99	
Hexachlorobutadiene		0.4234	0.4849	0.5295	0.6576	0.5975	0.4074			QUAD	1.40058	0.64143	0.084895	0.5167	0.997	15	0.050	0.99	
Naphthalene	2.1084	1.8642	2.3828	3.1432	4.1607	4.1823	4.1587	4.2865	4.3310	QUAD	0.46551	0.24119	-2.65E-5	3.4020	1.000	15	0.050	0.99	
1,2,3-Trichlorobenzene	0.5461	0.8456	0.9142	1.2628	1.5665	1.5717	1.5047	1.5746	1.5909	QUAD	0.26613	0.66536	-0.00024	1.2641	1.000	15	0.050	0.99	
tert-Butyl Alcohol (TBA)		0.0358	0.0983m	0.1120m	0.1141m	0.1185m	0.1188m	0.1190m		LINR	3.33952	8.36346		0.1024	1.000	15	0.005	0.99	
Isopropyl Ether (DIPE)	4.9241	4.9064	5.0266	4.9688	5.5341	5.3384	5.1368	4.9361	4.7558	AVRG		0.19768		5.0586	5	15	0.050	0.99	
Ethyl tert-Butyl Ether (ETBE)	3.9775	3.5304	3.6401	3.5878	3.9811	3.8639	3.7349	3.6647	3.5747	AVRG		0.26822		3.7283	5	15	0.050	0.99	
Methyl tert-Amyl Ether (TAME)	1.9079	1.7981	1.9809	1.8300	2.0358	2.0396	1.9601	1.9399	1.9016	AVRG		0.51743		1.9326	4	15	0.050	0.99	
Cyclohexanone		0.1709	0.0901	0.1602	0.2641	0.2517	0.2532	0.2250	0.2640	LINR	12.2446	3.90681		0.2099	0.991	15	0.005	0.99	
Ethanol		0.0202m	0.0198m	0.0199	0.0194	0.0200	0.0195	0.0192	0.0170	AVRG		51.5867		0.0194	5	15	0.0005	0.99	
Isopropanol			0.0817m	0.0882m	0.0853	0.0887	0.0909	0.0874	0.0789	AVRG		11.6451		0.0859	5	15	0.005	0.99	
Tetrahydrofuran	0.4513	0.4187	0.3932	0.3752	0.4031	0.3829	0.3604	0.3470	0.3089	AVRG		2.61585		0.3823	11	15	0.005	0.99	
Dibromofluoromethane	0.5646	0.5804	0.5827	0.5747	0.5820	0.5753	0.5713	0.5714	0.5611	AVRG		1.74300		0.5737	1	15	0.050	0.99	
1,2-Dichloroethane-d4	0.3058	0.3161	0.3118	0.3122	0.3131	0.3134	0.3027	0.2992	0.2890	AVRG		3.25674		0.3071	3	15	0.050	0.99	
Trifluorotoluene	0.7919	0.8902	0.8251	0.7633	0.9175	0.8524	0.7623	0.9479	0.8847	AVRG		1.17875		0.8484	8	15	0.050	0.99	
Toluene-d8	0.9628	0.9588	0.9765	0.9666	0.9542	0.9636	0.9620	0.9744	0.9533	AVRG		1.03781		0.9636	1	15	0.050	0.99	
Bromofluorobenzene	1.1418	1.1407	1.1499	1.1360	1.1381	1.1495	1.1353	1.1453	1.1482	AVRG		0.87508		1.1428	0	15	0.050	0.99	

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m=manual integration for incomplete integration in Target

AVRG=Average response factor LINR=Linear regression QUAD=Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

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Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH08.D
Report Date: 20-Mar-2006 09:43

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH08.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-MAR-2006 13:19 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2844,0.0005/1000,S2783,0.001/1000
Misc Info : S2410,0.0005/1000,0.25/0.5PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\826GOX9W.m
Meth Date : 20-Mar-2006 09:43 target Quant Type: ISTD
Cal Date : 17-MAR-2006 13:19 Cal File: ICH08.D
Als bottle: 8 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.163	4.163	(0.372)	5779	0.50000	0.5280(M)
2 Chloromethane	50	4.656	4.656	(0.416)	9400	0.50000	0.6361(M)
3 Vinyl Chloride	62	4.824	4.824	(0.431)	6894	0.50000	0.5184(M)
4 Bromomethane	94	5.543	5.543	(0.496)	1918	0.50000	0.3988(aM)
5 Chloroethane	64	5.741	5.741	(0.513)	3884	0.50000	0.5445(M)
6 Trichlorofluoromethane	101	6.184	6.184	(0.553)	7353	0.50000	0.5371
7 Ethanol	45	6.628	6.628	(0.593)	3216	25.0000	22.2708(M)
8 Freon 113	101	7.161	7.161	(0.640)	1171	0.25000	0.1516(a)
9 1,1-Dichloroethene	96	7.220	7.220	(0.646)	1769	0.25000	0.2267(a)
10 Acetone	43	7.417	7.417	(0.663)	1722	0.25000	0.4080(a)
11 Isopropanol	45	7.605	7.605	(0.680)	602	2.50000	0.9381
12 Carbon Disulfide	76	7.654	7.654	(0.684)	8768	0.25000	0.2536(a)
13 Methylene Chloride	84	8.196	8.196	(0.733)	3093	0.25000	0.2788(a)
14 tert-Butyl Alcohol (TBA)	59	8.315	8.315	(0.743)	336	2.50000	0.6350(M)
15 MTBE	73	8.542	8.542	(0.764)	6806	0.25000	0.2460(a)
16 trans-1,2-Dichloroethene	96	8.591	8.591	(0.768)	2457	0.25000	0.2519(a)

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH08.D
Report Date: 20-Mar-2006 09:43

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 Isopropyl Ether (DIPE)	45	9.331	9.331	(0.834)	9748	0.25000	0.2433(a)
18 1,1-Dichloroethane	63	9.390	9.390	(0.840)	4195	0.25000	0.2380(a)
19 Vinyl Acetate	43	9.409	9.409	(0.841)	6276	0.25000	0.2638(a)
20 Ethyl tert-Butyl Ether (ETBE)	59	9.952	9.952	(0.890)	7874	0.25000	0.2667(a)
21 2,2-Dichloropropane	77	10.356	10.356	(0.926)	2423	0.25000	0.2308(a)
22 cis-1,2-Dichloroethene	96	10.396	10.396	(0.929)	2661	0.25000	0.2478(a)
23 2-Butanone	43	10.406	10.406	(0.930)	1129	0.25000	0.2137(aM) nonpolar
24 Bromochloromethane	128	10.800	10.800	(0.966)	1201	0.25000	0.2334(a)
25 Tetrahydrofuran	42	10.830	10.830	(0.968)	8934	2.50000	2.9512
26 Chloroform	83	10.879	10.879	(0.973)	4522	0.25000	0.2744(a)
$ 27 Dibromofluoromethane	113	11.165	11.165	(0.998)	223523	50.0000	49.2006
28 1,1,1-Trichloroethane	97	11.175	11.175	(0.999)	3045	0.25000	0.2738(a)
* 29 Pentafluorobenzene	168	11.185	11.185	(1.000)	395930	50.0000	
30 Carbon Tetrachloride	117	11.392	11.392	(0.917)	1965	0.25000	0.2287(a)
31 1,1-Dichloropropene	75	11.441	11.441	(0.921)	2376	0.25000	0.2118(a)
$ 32 1,2-Dichloroethane-d4	65	11.786	11.786	(0.948)	204194	50.0000	49.7935
33 Benzene	78	11.786	11.786	(0.948)	10063	0.25000	0.2684(a)
34 Methyl tert-Amyl Ether (TAME)	73	11.875	11.875	(0.956)	6370	0.25000	0.2467(a)
35 1,2-Dichloroethane	62	11.924	11.924	(0.960)	2769	0.25000	0.2543(a)
* 36 1,4-Difluorobenzene	114	12.427	12.427	(1.000)	667763	50.0000	
37 Trichloroethene	95	12.851	12.851	(1.034)	2145	0.25000	0.2393(a)
38 1,2-Dichloropropane	63	13.305	13.305	(1.071)	2504	0.25000	0.2406(a)
$ 39 Trifluorotoluene	146	13.325	13.325	(1.072)	2644	0.25000	0.2333(a)
40 Dibromomethane	93	13.522	13.522	(1.088)	1219	0.25000	0.1907(a)
41 Bromodichloromethane	83	13.729	13.729	(1.105)	2986	0.25000	0.2587(a)
42 2-Chloroethylvinylether	63	14.193	14.193	(1.142)	1416	0.25000	0.3604(a)
43 Tetramethyl THF	43	14.459	14.459	(1.163)	4242	0.25000	0.2387(aM) nonpolar
44 cis-1,3-Dichloropropene	75	14.469	14.469	(1.164)	3731	0.25000	0.2435(a)
45 4-Methyl-2-Pentanone	43	14.686	14.686	(1.182)	1489	0.25000	0.1498(aM)
$ 46 Toluene-d8	98	14.844	14.844	(1.194)	642891	50.0000	49.9577
47 Toluene	92	14.952	14.952	(1.203)	5344	0.25000	0.2497(a)
48 trans-1,3-Dichloropropene	75	15.347	15.347	(1.235)	3162	0.25000	0.2379(a)
49 1,1,2-Trichloroethane	85	15.642	15.642	(1.259)	1107	0.25000	0.2372(a)
50 Tetrachloroethene	166	15.751	15.751	(0.927)	1662	0.25000	0.2240(a)
51 1,3-Dichloropropane	76	15.899	15.899	(0.936)	3728	0.25000	0.2538(a)
52 2-Hexanone	43	15.948	15.948	(0.939)	532	0.25000	0.0793(a)
53 Dibromochloromethane	129	16.195	16.195	(0.954)	2287	0.25000	0.2513(a)
54 1,2-Dibromoethane	107	16.402	16.402	(1.320)	2364	0.25000	0.2487(a)
* 55 Chlorobenzene-d5	117	16.984	16.984	(1.000)	536304	50.0000	
56 Chlorobenzene	112	17.023	17.023	(1.002)	6344	0.25000	0.2623(a)
57 Ethylbenzene	91	17.102	17.102	(1.007)	9703	0.25000	0.2517(a)
58 1,1,1,2-Tetrachloroethane	131	17.122	17.122	(1.008)	1940	0.25000	0.2429(a)
59 m,p-Xylenes	106	17.260	17.260	(1.016)	6506	0.50000	0.4549(a)
60 o-Xylene	106	17.782	17.782	(1.047)	3630	0.25000	0.2503(a)
61 Styrene	104	17.812	17.812	(1.049)	5711	0.25000	0.2278(a)
62 Bromoform	173	18.098	18.098	(1.066)	1673	0.25000	0.2531(a)
63 Isopropylbenzene	105	18.207	18.207	(0.919)	8401	0.25000	0.2506(a)

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH08.D
Report Date: 20-Mar-2006 09:43

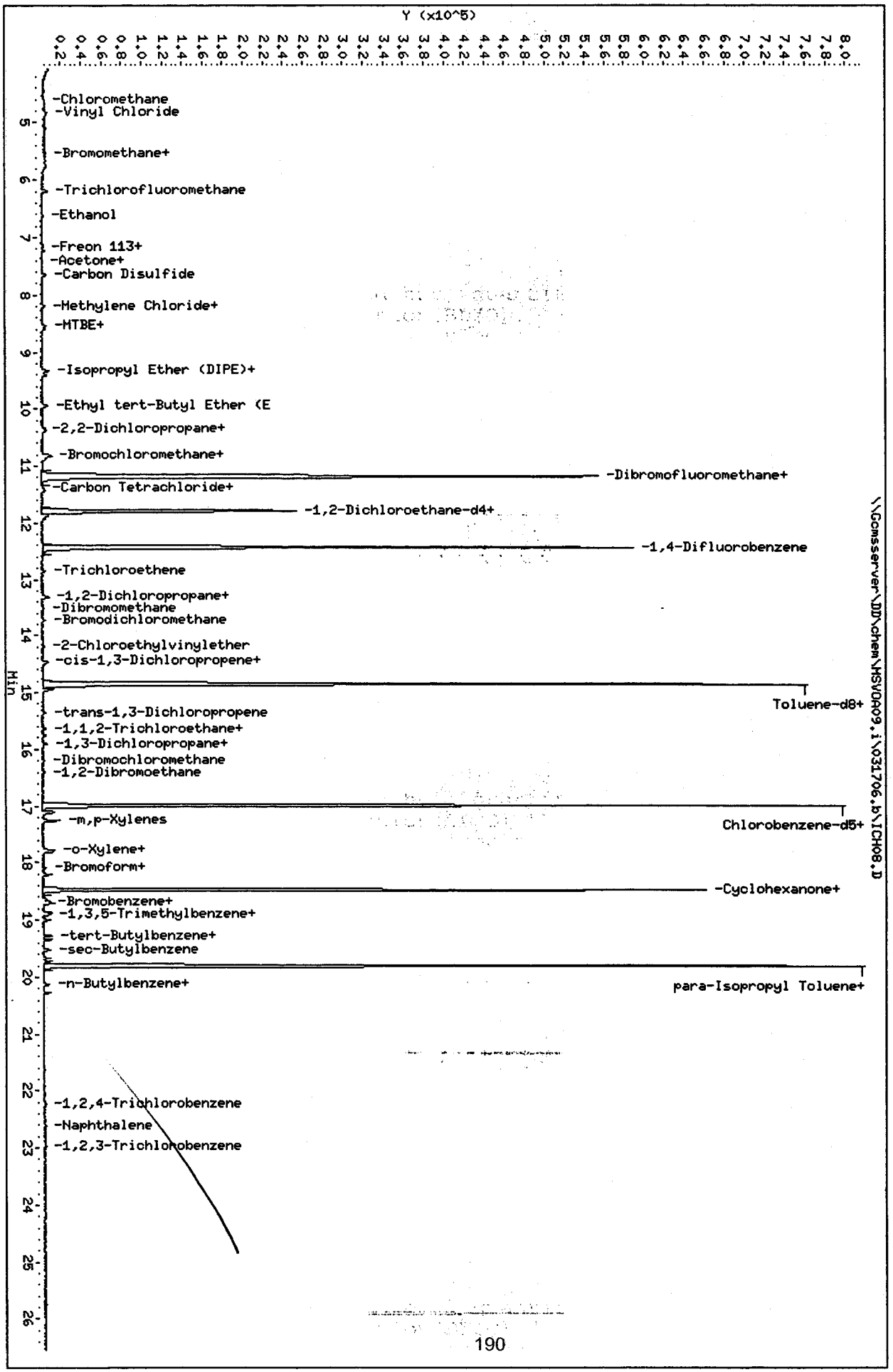
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone	55	18.463	18.463	(0.932)	2140	2.50000	2.1546
$ 65 Bromofluorobenzene	95	18.473	18.473	(0.933)	270125	50.0000	49.9581
66 1,1,2,2-Tetrachloroethane	83	18.631	18.631	(0.941)	2859	0.25000	0.2432(a)
67 Bromobenzene	156	18.680	18.680	(0.943)	2443	0.25000	0.2564(a)
68 Propylbenzene	91	18.710	18.710	(0.945)	10205	0.25000	0.2411(a)
69 1,2,3-Trichloropropane	110	18.710	18.710	(0.945)	584	0.25000	0.2052(a)
70 2-Chlorotoluene	91	18.867	18.867	(0.953)	7146	0.25000	0.2449(a)
71 1,3,5-Trimethylbenzene	105	18.907	18.907	(0.955)	6441	0.25000	0.2358(a)
72 4-Chlorotoluene	91	18.996	18.996	(0.959)	7159	0.25000	0.2596(a)
73 tert-Butylbenzene	119	19.282	19.282	(0.974)	5457	0.25000	0.2533(a)
74 1,2,4-Trimethylbenzene	105	19.341	19.341	(0.977)	6805	0.25000	0.2455(a)
75 sec-Butylbenzene	105	19.518	19.518	(0.986)	7484	0.25000	0.2241(a)
76 para-Isopropyl Toluene	119	19.666	19.666	(0.993)	5598	0.25000	0.2208(a)
77 1,3-Dichlorobenzene	146	19.725	19.725	(0.996)	4322	0.25000	0.2594(a)
* 78 1,4-Dichlorobenzene-d4	152	19.804	19.804	(1.000)	236578	50.0000	
79 1,4-Dichlorobenzene	146	19.834	19.834	(1.001)	4568	0.25000	0.2640(a)
80 n-Butylbenzene	91	20.130	20.130	(1.016)	4495	0.25000	0.1980(a)
81 1,2-Dichlorobenzene	146	20.278	20.278	(1.024)	4168	0.25000	0.2646(a)
83 1,2,4-Trichlorobenzene	180	22.220	22.220	(1.122)	1217	0.25000	0.1766(a)
85 Naphthalene	128	22.605	22.605	(1.141)	2494	0.25000	0.1549(a)
86 1,2,3-Trichlorobenzene	180	22.970	22.970	(1.160)	646	0.25000	0.1080(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA09.i\031706.b\ICH08.D
Date : 17-MAR-2006 13:19
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.0005/1000,S2783,0.001/1000
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: VOC
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH09.D
Report Date: 20-Mar-2006 09:43

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH09.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-MAR-2006 13:53 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2844,0.001/1000,S2783,0.002/1000
Misc Info : S2410,0.001/1000,0.5/1PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\826GOX9W.m
Meth Date : 20-Mar-2006 09:43 target Quant Type: ISTD
Cal Date : 17-MAR-2006 13:19 Cal File: ICH08.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.160	4.160	(0.372)	11672	1.00000	1.0179(M)
2 Chloromethane	50	4.653	4.653	(0.416)	18561	1.00000	1.1390(M)
3 Vinyl Chloride	62	4.821	4.821	(0.431)	13953	1.00000	1.0247(M)
4 Bromomethane	94	5.551	5.551	(0.496)	3439	1.00000	0.6740(M)
5 Chloroethane	64	5.758	5.758	(0.515)	7599	1.00000	1.0478
6 Trichlorofluoromethane	101	6.192	6.192	(0.554)	15144	1.00000	1.0881
7 Ethanol	45	6.626	6.626	(0.593)	8132	50.0000	54.9319(M)
8 Freon 113	101	7.148	7.148	(0.639)	4145	0.50000	0.5279
9 1,1-Dichloroethene	96	7.227	7.227	(0.646)	3985	0.50000	0.5024
10 Acetone	43	7.395	7.395	(0.661)	2914	0.50000	0.6791
11 Isopropanol	45	7.602	7.602	(0.680)	2171	5.00000	3.3278(M)
12 Carbon Disulfide	76	7.651	7.651	(0.684)	17897	0.50000	0.5092
13 Methylene Chloride	84	8.194	8.194	(0.733)	5972	0.50000	0.5296
14 tert-Butyl Alcohol (TBA)	59	8.312	8.312	(0.743)	1443	5.00000	2.6823
15 MTBE	73	8.539	8.539	(0.764)	13461	0.50000	0.4787(a)
16 trans-1,2-Dichloroethene	96	8.588	8.588	(0.768)	5110	0.50000	0.5153

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Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH09.D
Report Date: 20-Mar-2006 09:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	9.318	9.318	(0.833)	19750	0.50000	0.4849(a)
	18 1,1-Dichloroethane	63	9.397	9.397	(0.840)	8728	0.50000	0.4870(a)
	19 Vinyl Acetate	43	9.407	9.407	(0.841)	11852	0.50000	0.4900(aM)
	20 Ethyl tert-Butyl Ether (ETBE)	59	9.939	9.939	(0.889)	14211	0.50000	0.4734(a)
	21 2,2-Dichloropropane	77	10.354	10.354	(0.926)	5199	0.50000	0.4871(a)
	22 cis-1,2-Dichloroethene	96	10.383	10.383	(0.929)	5428	0.50000	0.4973(a)
	23 2-Butanone	43	10.403	10.403	(0.930)	2361	0.50000	0.4397(a)
	24 Bromochloromethane	128	10.797	10.797	(0.966)	2314	0.50000	0.4424(a)
	25 Tetrahydrofuran	42	10.817	10.817	(0.967)	16853	5.00000	5.4759
	26 Chloroform	83	10.886	10.886	(0.974)	8645	0.50000	0.5161
$	27 Dibromofluoromethane	113	11.162	11.162	(0.998)	233617	50.0000	50.5786
	28 1,1,1-Trichloroethane	97	11.172	11.172	(0.999)	5386	0.50000	0.4763(a)
*	29 Pentafluorobenzene	168	11.182	11.182	(1.000)	402536	50.0000	
	30 Carbon Tetrachloride	117	11.399	11.399	(0.917)	4487	0.50000	0.5075
	31 1,1-Dichloropropene	75	11.439	11.439	(0.921)	5816	0.50000	0.5039
$	32 1,2-Dichloroethane-d4	65	11.784	11.784	(0.948)	217207	50.0000	51.4698
	33 Benzene	78	11.794	11.794	(0.949)	20008	0.50000	0.5187
	34 Methyl tert-Amyl Ether (TAME)	73	11.872	11.872	(0.956)	12356	0.50000	0.4651(a)
	35 1,2-Dichloroethane	62	11.922	11.922	(0.960)	5488	0.50000	0.4897(a)
*	36 1,4-Difluorobenzene	114	12.425	12.425	(1.000)	687185	50.0000	
	37 Trichloroethene	95	12.849	12.849	(1.034)	4819	0.50000	0.5224
	38 1,2-Dichloropropane	63	13.312	13.312	(1.071)	5218	0.50000	0.4872(a)
$	39 Trifluorotoluene	146	13.312	13.312	(1.071)	6117	0.50000	0.5246
	40 Dibromomethane	93	13.519	13.519	(1.088)	3371	0.50000	0.5125
	41 Bromodichloromethane	83	13.727	13.727	(1.105)	5465	0.50000	0.4602(a)
	42 2-Chloroethylvinylether	63	14.190	14.190	(1.142)	3131	1.00000	0.7744
	43 Tetramethyl THF	43	14.466	14.466	(1.164)	9035	0.50000	0.4888(aM)
	44 cis-1,3-Dichloropropene	75	14.476	14.476	(1.165)	7657	0.50000	0.4856(a)
	45 4-Methyl-2-Pentanone	43	14.693	14.693	(1.183)	4295	0.50000	0.4199(aM)
$	46 Toluene-d8	98	14.841	14.841	(1.194)	658902	50.0000	49.7548
	47 Toluene	92	14.949	14.949	(1.203)	11017	0.50000	0.5003
	48 trans-1,3-Dichloropropene	75	15.354	15.354	(1.236)	6666	0.50000	0.4874(a)
	49 1,1,2-Trichloroethane	85	15.630	15.630	(1.258)	2294	0.50000	0.4777(a)
	50 Tetrachloroethene	166	15.748	15.748	(0.927)	4065	0.50000	0.5359
	51 1,3-Dichloropropane	76	15.906	15.906	(0.937)	7046	0.50000	0.4691(a)
	52 2-Hexanone	43	15.955	15.955	(0.940)	2649	0.50000	0.3865(a)
	53 Dibromochloromethane	129	16.192	16.192	(0.954)	4108	0.50000	0.4415(a)
	54 1,2-Dibromoethane	107	16.399	16.399	(1.320)	4514	0.50000	0.4616(a)
*	55 Chlorobenzene-d5	117	16.981	16.981	(1.000)	548430	50.0000	
	56 Chlorobenzene	112	17.021	17.021	(1.002)	13110	0.50000	0.5301
	57 Ethylbenzene	91	17.099	17.099	(1.007)	20193	0.50000	0.5124
	58 1,1,1,2-Tetrachloroethane	131	17.129	17.129	(1.009)	4158	0.50000	0.5091
	59 m,p-Xylenes	106	17.257	17.257	(1.016)	14523	1.00000	0.9930
	60 o-Xylene	106	17.790	17.790	(1.048)	7362	0.50000	0.4964(a)
	61 Styrene	104	17.810	17.810	(1.049)	11850	0.50000	0.4624(a)
	62 Bromoform	173	18.096	18.096	(1.066)	3446	0.50000	0.5099
	63 Isopropylbenzene	105	18.214	18.214	(0.920)	17930	0.50000	0.5188

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH09.D
Report Date: 20-Mar-2006 09:43

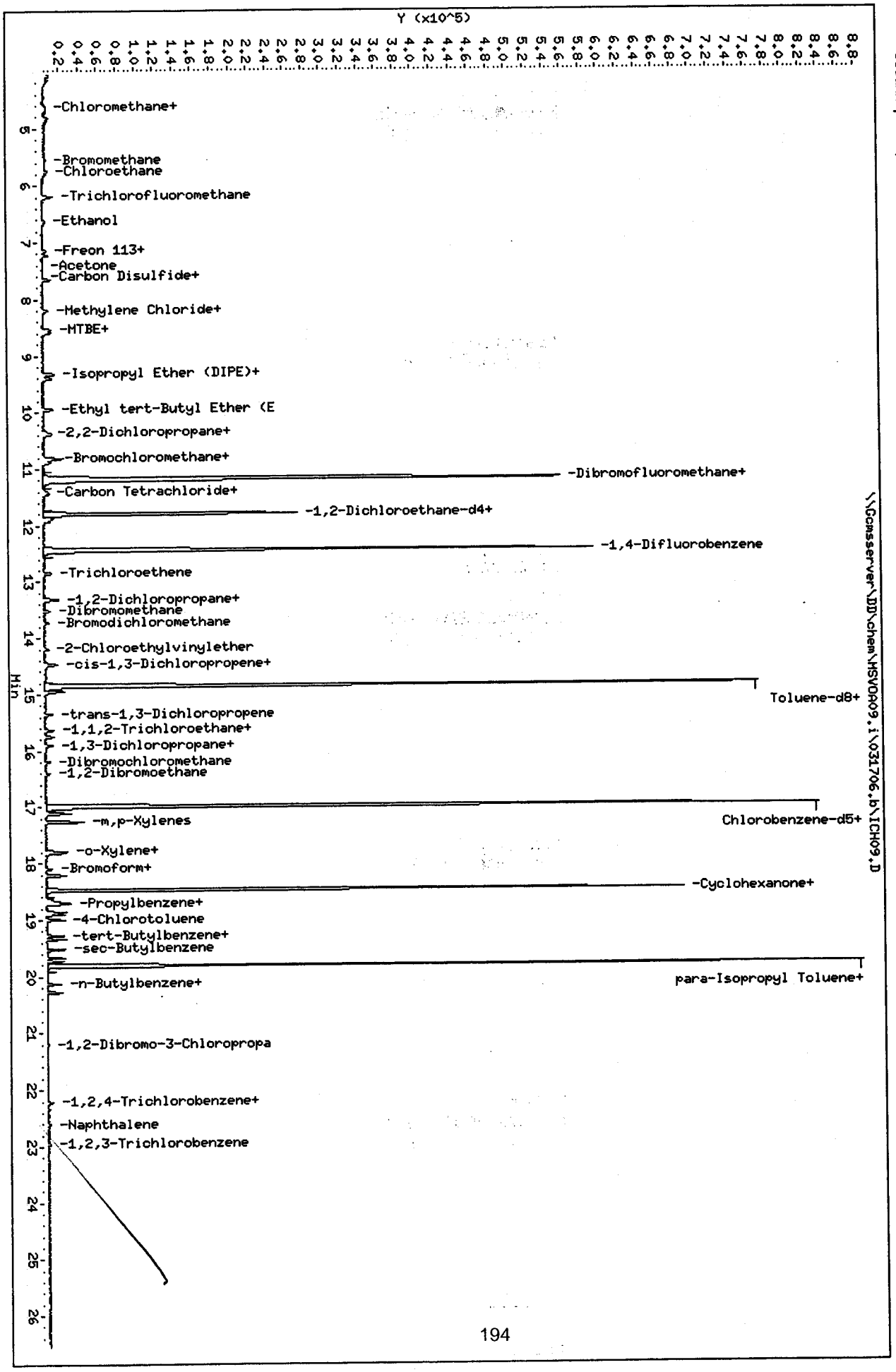
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone	55	18.460	18.460	(0.932)	4169	5.00000	4.0704
$ 65 Bromofluorobenzene	95	18.470	18.470	(0.933)	278287	50.0000	49.9105
66 1,1,2,2-Tetrachloroethane	83	18.628	18.628	(0.941)	6056	0.50000	0.4995(a)
67 Bromobenzene	156	18.668	18.668	(0.943)	5141	0.50000	0.5233
68 Propylbenzene	91	18.707	18.707	(0.945)	23295	0.50000	0.5338
69 1,2,3-Trichloropropane	110	18.717	18.717	(0.945)	1414	0.50000	0.4820(a)
70 2-Chlorotoluene	91	18.865	18.865	(0.953)	15152	0.50000	0.5036
71 1,3,5-Trimethylbenzene	105	18.904	18.904	(0.955)	14594	0.50000	0.5182
72 4-Chlorotoluene	91	19.003	19.003	(0.960)	14524	0.50000	0.5108
73 tert-Butylbenzene	119	19.279	19.279	(0.974)	11150	0.50000	0.5019
74 1,2,4-Trimethylbenzene	105	19.338	19.338	(0.977)	13307	0.50000	0.4655(a)
75 sec-Butylbenzene	105	19.516	19.516	(0.986)	17404	0.50000	0.5055
76 para-Isopropyl Toluene	119	19.664	19.664	(0.993)	12415	0.50000	0.4749(a)
77 1,3-Dichlorobenzene	146	19.733	19.733	(0.997)	8262	0.50000	0.4810(a)
* 78 1,4-Dichlorobenzene-d4	152	19.802	19.802	(1.000)	243959	50.0000	
79 1,4-Dichlorobenzene	146	19.831	19.831	(1.001)	8523	0.50000	0.4778(a)
80 n-Butylbenzene	91	20.127	20.127	(1.016)	10887	0.50000	0.4652(a)
81 1,2-Dichlorobenzene	146	20.275	20.275	(1.024)	7706	0.50000	0.4744(a)
82 1,2-Dibromo-3-Chloropropane	75	21.202	21.202	(1.071)	560	0.50000	0.3306(a)
83 1,2,4-Trichlorobenzene	180	22.218	22.218	(1.122)	2285	0.50000	0.3216(a)
84 Hexachlorobutadiene	225	22.336	22.336	(1.128)	1033	0.50000	0.4044(a)
85 Naphthalene	128	22.612	22.612	(1.142)	4548	0.50000	0.2739(a)
86 1,2,3-Trichlorobenzene	180	22.958	22.958	(1.159)	2063	0.50000	0.3344(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\HSVOA09.i\031706.b\ICH09.D
Date : 17-MAR-2006 13:53
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.001/1000,S2783,0.002/1000
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA09.i
Operator: VOC
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH10.D
Report Date: 20-Mar-2006 09:43

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Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH10.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-MAR-2006 14:29 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2844,0.002/500,S2783,0.002/500
Misc Info : S2410,0.001/500,2PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\826GOX9W.m
Meth Date : 20-Mar-2006 09:43 target Quant Type: ISTD
Cal Date : 17-MAR-2006 13:19 Cal File: ICH08.D
Als bottle: 10 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.170	4.170	(0.373)	20080	2.00000	1.6582(M)
2 Chloromethane	50	4.653	4.653	(0.416)	37066	2.00000	2.0345(M)
3 Vinyl Chloride	62	4.821	4.821	(0.431)	27160	2.00000	1.8918(M)
4 Bromomethane	94	5.541	5.541	(0.496)	9632	2.00000	1.7630(M)
5 Chloroethane	64	5.758	5.758	(0.515)	15098	2.00000	1.9883
6 Trichlorofluoromethane	101	6.192	6.192	(0.554)	25437	2.00000	1.7455
7 Ethanol	45	6.626	6.626	(0.593)	33404	200.000	208.1704(M)
8 Freon 113	101	7.148	7.148	(0.639)	15388	2.00000	1.8719
9 1,1-Dichloroethene	96	7.227	7.227	(0.646)	16397	2.00000	1.9746
10 Acetone	43	7.405	7.405	(0.662)	7348	2.00000	1.6356
11 Isopropanol	45	7.592	7.592	(0.679)	13779	20.0000	19.5471(M)
12 Carbon Disulfide	76	7.651	7.651	(0.684)	73928	2.00000	2.0089
13 Methylene Chloride	84	8.194	8.194	(0.733)	24721	2.00000	2.0938
14 tert-Butyl Alcohol (TBA)	59	8.302	8.302	(0.742)	16576	20.0000	26.4092(M)
15 MTBE	73	8.539	8.539	(0.764)	58594	2.00000	1.9902
16 trans-1,2-Dichloroethene	96	8.598	8.598	(0.769)	19894	2.00000	1.9160

n 3 poles

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH10.D
Report Date: 20-Mar-2006 09:43

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 Isopropyl Ether (DIPE)	45	9.328	9.328	(0.834)	84744	2.00000	1.9873
18 1,1-Dichloroethane	63	9.397	9.397	(0.840)	39097	2.00000	2.0838
19 Vinyl Acetate	43	9.407	9.407	(0.841)	54515	2.00000	2.1284 (M)
20 Ethyl tert-Butyl Ether (ETBE)	59	9.939	9.939	(0.889)	61368	2.00000	1.9526
21 2,2-Dichloropropane	77	10.354	10.354	(0.926)	22967	2.00000	2.0552
22 cis-1,2-Dichloroethene	96	10.383	10.383	(0.929)	23922	2.00000	2.0933
23 2-Butanone	43	10.403	10.403	(0.930)	10690	2.00000	1.9015
24 Bromochloromethane	128	10.807	10.807	(0.966)	11281	2.00000	2.0600
25 Tetrahydrofuran	42	10.817	10.817	(0.967)	66288	20.0000	20.5704
26 Chloroform	83	10.876	10.876	(0.973)	35358	2.00000	2.0160
$ 27 Dibromofluoromethane	113	11.162	11.162	(0.998)	245599	50.0000	50.7832
28 1,1,1-Trichloroethane	97	11.182	11.182	(1.000)	23767	2.00000	2.0076
* 29 Pentafluorobenzene	168	11.182	11.182	(1.000)	421477	50.0000	
30 Carbon Tetrachloride	117	11.399	11.399	(0.917)	17801	2.00000	1.9407
31 1,1-Dichloropropene	75	11.439	11.439	(0.921)	24368	2.00000	2.0349
$ 32 1,2-Dichloroethane-d4	65	11.784	11.784	(0.948)	222299	50.0000	50.7728
33 Benzene	78	11.794	11.794	(0.949)	80935	2.00000	2.0224
34 Methyl tert-Amyl Ether (TAME)	73	11.872	11.872	(0.956)	56491	2.00000	2.0499
35 1,2-Dichloroethane	62	11.922	11.922	(0.960)	23787	2.00000	2.0461
* 36 1,4-Difluorobenzene	114	12.425	12.425	(1.000)	712949	50.0000	
37 Trichloroethene	95	12.849	12.849	(1.034)	19169	2.00000	2.0029
38 1,2-Dichloropropane	63	13.312	13.312	(1.071)	22618	2.00000	2.0356
$ 39 Trifluorotoluene	146	13.322	13.322	(1.072)	23531	2.00000	1.9452
40 Dibromomethane	93	13.519	13.519	(1.088)	13415	2.00000	1.9661
41 Bromodichloromethane	83	13.727	13.727	(1.105)	24440	2.00000	1.9838
42 2-Chloroethylvinylether	63	14.200	14.200	(1.143)	7877	2.00000	1.8779
43 Tetramethyl THF	43	14.456	14.456	(1.164)	40547	2.00000	2.0388 (M)
44 cis-1,3-Dichloropropene	75	14.476	14.476	(1.165)	33470	2.00000	2.0460
45 4-Methyl-2-Pentanone	43	14.683	14.683	(1.182)	19189	2.00000	1.8082
$ 46 Toluene-d8	98	14.841	14.841	(1.194)	696190	50.0000	50.6707
47 Toluene	92	14.949	14.949	(1.203)	45153	2.00000	1.9765
48 trans-1,3-Dichloropropene	75	15.354	15.354	(1.236)	27485	2.00000	1.9372
49 1,1,2-Trichloroethane	85	15.630	15.630	(1.258)	10090	2.00000	2.0252
50 Tetrachloroethene	166	15.748	15.748	(0.927)	14769	2.00000	1.8797
51 1,3-Dichloropropane	76	15.906	15.906	(0.937)	31231	2.00000	2.0077
52 2-Hexanone	43	15.965	15.965	(0.940)	11682	2.00000	1.6455
53 Dibromochloromethane	129	16.192	16.192	(0.954)	18984	2.00000	1.9698
54 1,2-Dibromoethane	107	16.399	16.399	(1.320)	20026	2.00000	1.9739
* 55 Chlorobenzene-d5	117	16.981	16.981	(1.000)	568080	50.0000	
56 Chlorobenzene	112	17.021	17.021	(1.002)	51996	2.00000	2.0299
57 Ethylbenzene	91	17.099	17.099	(1.007)	82473	2.00000	2.0204
58 1,1,1,2-Tetrachloroethane	131	17.119	17.119	(1.008)	16766	2.00000	1.9818
59 m,p-Xylenes	106	17.257	17.257	(1.016)	62985	4.00000	4.1578
60 o-Xylene	106	17.780	17.780	(1.047)	31216	2.00000	2.0321
61 Styrene	104	17.810	17.810	(1.049)	51882	2.00000	1.9545
62 Bromoform	173	18.105	18.105	(1.066)	13486	2.00000	1.9268
63 Isopropylbenzene	105	18.214	18.214	(0.920)	68488	2.00000	1.9057

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH10.D
Report Date: 20-Mar-2006 09:43

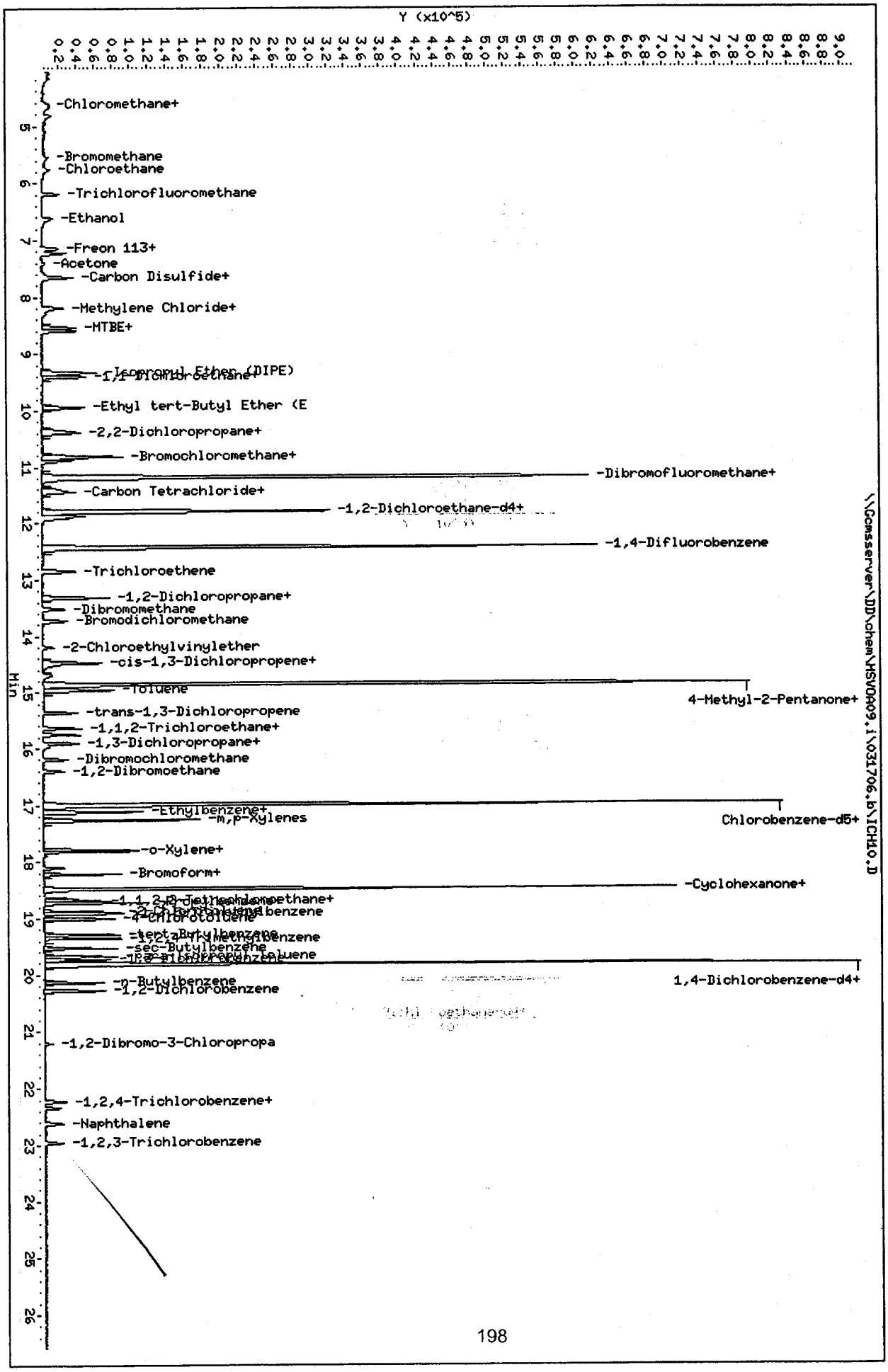
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone	55	18.460	18.460	(0.932)	9140	20.0000	8.5808
$ 65 Bromofluorobenzene	95	18.470	18.470	(0.933)	291754	50.0000	50.3139
66 1,1,2,2-Tetrachloroethane	83	18.638	18.638	(0.941)	25990	2.00000	2.0616
67 Bromobenzene	156	18.677	18.677	(0.943)	19950	2.00000	1.9529
68 Propylbenzene	91	18.707	18.707	(0.945)	86812	2.00000	1.9130
69 1,2,3-Trichloropropane	110	18.717	18.717	(0.945)	6444	2.00000	2.1122
70 2-Chlorotoluene	91	18.865	18.865	(0.953)	63272	2.00000	2.0223
71 1,3,5-Trimethylbenzene	105	18.904	18.904	(0.955)	56062	2.00000	1.9144
72 4-Chlorotoluene	91	19.003	19.003	(0.960)	59277	2.00000	2.0047
73 tert-Butylbenzene	119	19.279	19.279	(0.974)	43668	2.00000	1.8904
74 1,2,4-Trimethylbenzene	105	19.348	19.348	(0.977)	57363	2.00000	1.9298
75 sec-Butylbenzene	105	19.526	19.526	(0.986)	69323	2.00000	1.9362
76 para-Isopropyl Toluene	119	19.664	19.664	(0.993)	51397	2.00000	1.8905
77 1,3-Dichlorobenzene	146	19.723	19.723	(0.996)	34987	2.00000	1.9585
* 78 1,4-Dichlorobenzene-d4	152	19.802	19.802	(1.000)	253714	50.0000	
79 1,4-Dichlorobenzene	146	19.831	19.831	(1.001)	36404	2.00000	1.9623
80 n-Butylbenzene	91	20.127	20.127	(1.016)	43834	2.00000	1.8013
81 1,2-Dichlorobenzene	146	20.275	20.275	(1.024)	33129	2.00000	1.9611
82 1,2-Dibromo-3-Chloropropane	75	21.202	21.202	(1.071)	3519	2.00000	1.9978
83 1,2,4-Trichlorobenzene	180	22.228	22.228	(1.123)	11894	2.00000	1.6098
84 Hexachlorobutadiene	225	22.346	22.346	(1.128)	4921	2.00000	1.8528
85 Naphthalene	128	22.612	22.612	(1.142)	24182	2.00000	1.4008
86 1,2,3-Trichlorobenzene	180	22.958	22.958	(1.159)	9278	2.00000	1.4463

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA09.i\031706.b\ICH10.D
Date : 17-MAR-2006 14:29
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.002/500,S2783,0.002/500
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: VOC
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH11.D
Report Date: 20-Mar-2006 09:43

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH11.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-MAR-2006 15:04 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2844,0.005/500,S2783,0.005/500
Misc Info : S2410,0.0025/500,5PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\826GOX9W.m
Meth Date : 20-Mar-2006 09:43 target Quant Type: ISTD
Cal Date : 17-MAR-2006 13:19 Cal File: ICH08.D
Als bottle: 11 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.160	4.160	(0.372)	54136	5.00000	4.4256
2 Chloromethane	50	4.663	4.663	(0.417)	88223	5.00000	4.7938
3 Vinyl Chloride	62	4.821	4.821	(0.431)	65977	5.00000	4.5493
4 Bromomethane	94	5.551	5.551	(0.496)	23639	5.00000	4.2091(M)
5 Chloroethane	64	5.758	5.758	(0.515)	37687	5.00000	4.6829(M)
6 Trichlorofluoromethane	101	6.192	6.192	(0.554)	64098	5.00000	4.3543
7 Ethanol	45	6.616	6.616	(0.592)	84616	500.000	522.0090
8 Freon 113	101	7.149	7.149	(0.639)	35661	5.00000	4.2945
9 1,1-Dichloroethene	96	7.228	7.228	(0.646)	38253	5.00000	4.5603
10 Acetone	43	7.405	7.405	(0.662)	19549	5.00000	4.3076
11 Isopropanol	45	7.592	7.592	(0.679)	37558	50.0000	51.3626(M)
12 Carbon Disulfide	76	7.652	7.652	(0.684)	169841	5.00000	4.5687
13 Methylene Chloride	84	8.194	8.194	(0.733)	58060	5.00000	4.8681
14 tert-Butyl Alcohol (TBA)	59	8.293	8.293	(0.742)	47687	50.0000	70.1060(M)
15 MTBE	73	8.539	8.539	(0.764)	143982	5.00000	4.8414
16 trans-1,2-Dichloroethene	96	8.589	8.589	(0.768)	51075	5.00000	4.8695

n-propanol

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH11.D
Report Date: 20-Mar-2006 09:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	9.318	9.318	(0.833)	211552	5.00000	4.9112
	18 1,1-Dichloroethane	63	9.397	9.397	(0.840)	93974	5.00000	4.9583
	19 Vinyl Acetate	43	9.397	9.397	(0.840)	129871	5.00000	5.0195
	20 Ethyl tert-Butyl Ether (ETBE)	59	9.940	9.940	(0.889)	152756	5.00000	4.8115
	21 2,2-Dichloropropane	77	10.354	10.354	(0.926)	55333	5.00000	4.9017
	22 cis-1,2-Dichloroethene	96	10.383	10.383	(0.929)	55645	5.00000	4.8204
	23 2-Butanone	43	10.403	10.403	(0.930)	27385	5.00000	4.8221
	24 Bromochloromethane	128	10.798	10.798	(0.966)	27803	5.00000	5.0260
	25 Tetrahydrofuran	42	10.817	10.817	(0.967)	159743	50.0000	49.0722
	26 Chloroform	83	10.877	10.877	(0.973)	85134	5.00000	4.8052
$	27 Dibromofluoromethane	113	11.163	11.163	(0.998)	244701	50.0000	50.0880
	28 1,1,1-Trichloroethane	97	11.172	11.172	(0.999)	55874	5.00000	4.6722
*	29 Pentafluorobenzene	168	11.182	11.182	(1.000)	425764	50.0000	
	30 Carbon Tetrachloride	117	11.399	11.399	(0.917)	43797	5.00000	4.6735
	31 1,1-Dichloropropene	75	11.439	11.439	(0.921)	57136	5.00000	4.6701
$	32 1,2-Dichloroethane-d4	65	11.784	11.784	(0.948)	227439	50.0000	50.8437
	33 Benzene	78	11.794	11.794	(0.949)	195445	5.00000	4.7801
	34 Methyl tert-Amyl Ether (TAME)	73	11.863	11.863	(0.955)	133300	5.00000	4.7344
	35 1,2-Dichloroethane	62	11.912	11.912	(0.959)	59228	5.00000	4.9865
*	36 1,4-Difluorobenzene	114	12.425	12.425	(1.000)	728417	50.0000	
	37 Trichloroethene	95	12.849	12.849	(1.034)	46596	5.00000	4.7654
	38 1,2-Dichloropropane	63	13.303	13.303	(1.071)	57543	5.00000	5.0690
$	39 Trifluorotoluene	146	13.322	13.322	(1.072)	55597	5.00000	4.4984
	40 Dibromomethane	93	13.510	13.510	(1.087)	35615	5.00000	5.1089
	41 Bromodichloromethane	83	13.727	13.727	(1.105)	61057	5.00000	4.8508
	42 2-Chloroethylvinylether	63	14.190	14.190	(1.142)	19629	5.00000	4.5802
	43 Tetramethyl THF	43	14.457	14.457	(1.164)	102441	5.00000	5.0417
	44 cis-1,3-Dichloropropene	75	14.476	14.476	(1.165)	81848	5.00000	4.8971
	45 4-Methyl-2-Pentanone	43	14.683	14.683	(1.182)	52132	5.00000	4.8082
$	46 Toluene-d8	98	14.841	14.841	(1.194)	704054	50.0000	50.1549
	47 Toluene	92	14.950	14.950	(1.203)	113728	5.00000	4.8726
	48 trans-1,3-Dichloropropene	75	15.354	15.354	(1.236)	71271	5.00000	4.9168
	49 1,1,2-Trichloroethane	85	15.630	15.630	(1.258)	26085	5.00000	5.1246
	50 Tetrachloroethene	166	15.749	15.749	(0.927)	37456	5.00000	4.6741
	51 1,3-Dichloropropane	76	15.896	15.896	(0.936)	79334	5.00000	5.0005
	52 2-Hexanone	43	15.946	15.946	(0.939)	33582	5.00000	4.6381
	53 Dibromochloromethane	129	16.192	16.192	(0.954)	49404	5.00000	5.0263
	54 1,2-Dibromoethane	107	16.399	16.399	(1.320)	51437	5.00000	4.9623
*	55 Chlorobenzene-d5	117	16.981	16.981	(1.000)	579378	50.0000	
	56 Chlorobenzene	112	17.021	17.021	(1.002)	125234	5.00000	4.7937
	57 Ethylbenzene	91	17.100	17.100	(1.007)	207143	5.00000	4.9757
	58 1,1,1,2-Tetrachloroethane	131	17.119	17.119	(1.008)	43251	5.00000	5.0127
	59 m,p-Xylenes	106	17.257	17.257	(1.016)	155047	10.0000	10.0356
	60 o-Xylene	106	17.780	17.780	(1.047)	76553	5.00000	4.8863
	61 Styrene	104	17.810	17.810	(1.049)	136747	5.00000	5.0510
	62 Bromoform	173	18.106	18.106	(1.066)	34111	5.00000	4.7786
	63 Isopropylbenzene	105	18.214	18.214	(0.920)	175889	5.00000	4.6679

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH11.D
Report Date: 20-Mar-2006 09:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	64 Cyclohexanone	55	18.461	18.461	(0.932)	42617	50.0000	38.1607
$	65 Bromofluorobenzene	95	18.471	18.471	(0.933)	302187	50.0000	49.7046
	66 1,1,2,2-Tetrachloroethane	83	18.628	18.628	(0.941)	66643	5.00000	5.0420
	67 Bromobenzene	156	18.668	18.668	(0.943)	50725	5.00000	4.7360
	68 Propylbenzene	91	18.707	18.707	(0.945)	228175	5.00000	4.7958
	69 1,2,3-Trichloropropane	110	18.727	18.727	(0.946)	16071	5.00000	5.0243
	70 2-Chlorotoluene	91	18.865	18.865	(0.953)	159620	5.00000	4.8660
	71 1,3,5-Trimethylbenzene	105	18.904	18.904	(0.955)	147335	5.00000	4.7986
	72 4-Chlorotoluene	91	18.993	18.993	(0.959)	151038	5.00000	4.8720
	73 tert-Butylbenzene	119	19.279	19.279	(0.974)	113900	5.00000	4.7029
	74 1,2,4-Trimethylbenzene	105	19.338	19.338	(0.977)	152479	5.00000	4.8926
	75 sec-Butylbenzene	105	19.516	19.516	(0.986)	171902	5.00000	4.5793
	76 para-Isopropyl Toluene	119	19.664	19.664	(0.993)	134965	5.00000	4.7349
	77 1,3-Dichlorobenzene	146	19.723	19.723	(0.996)	90332	5.00000	4.8230
*	78 1,4-Dichlorobenzene-d4	152	19.802	19.802	(1.000)	266008	50.0000	
	79 1,4-Dichlorobenzene	146	19.832	19.832	(1.001)	94482	5.00000	4.8576
	80 n-Butylbenzene	91	20.127	20.127	(1.016)	119944	5.00000	4.7012
	81 1,2-Dichlorobenzene	146	20.275	20.275	(1.024)	85133	5.00000	4.8068
	82 1,2-Dibromo-3-Chloropropane	75	21.202	21.202	(1.071)	10324	5.00000	5.5902
	83 1,2,4-Trichlorobenzene	180	22.218	22.218	(1.122)	38146	5.00000	4.9243
	84 Hexachlorobutadiene	225	22.337	22.337	(1.128)	14086	5.00000	5.0585
	85 Naphthalene	128	22.613	22.613	(1.142)	83612	5.00000	4.6196
	86 1,2,3-Trichlorobenzene	180	22.958	22.958	(1.159)	33592	5.00000	4.9948

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA09.i\031706.b\ICH11.D
Date : 17-MAR-2006 15:04
Client ID: DYNA P&T
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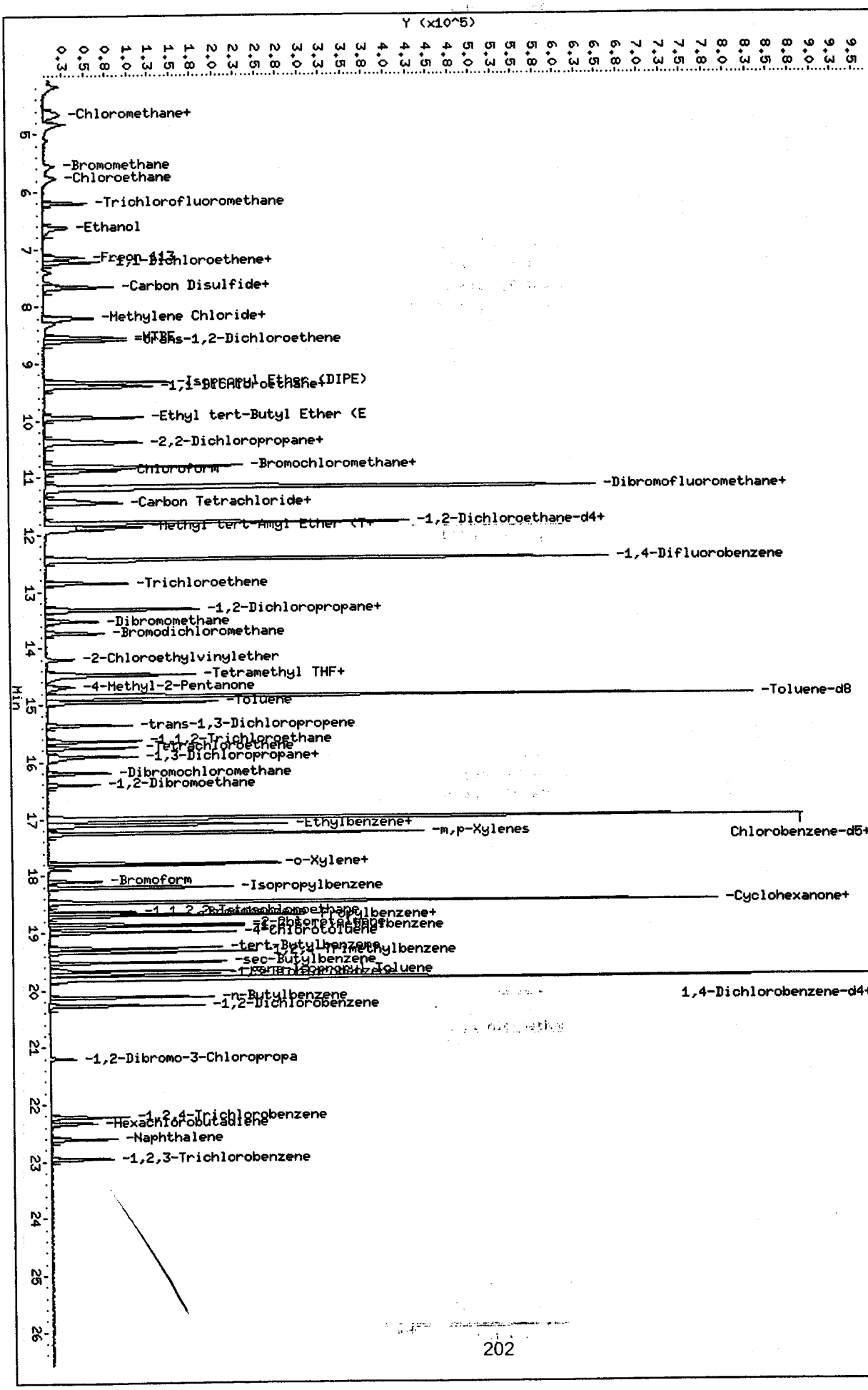
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: VOC
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH12.D
Report Date: 20-Mar-2006 09:44

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH12.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-MAR-2006 15:39 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2844,0.002/100,S2783,0.002/100
Misc Info : S2410,0.001/100,10PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\826GOX9W.m
Meth Date : 20-Mar-2006 09:43 target Quant Type: ISTD
Cal Date : 17-MAR-2006 13:19 Cal File: ICH08.D
Als bottle: 12 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

QUANT SIG/1( ), S2783,0

Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.166	4.166	(0.372)	143649	10.0000	11.5961
2 Chloromethane	50	4.649	4.649	(0.416)	213424	10.0000	11.4517
3 Vinyl Chloride	62	4.826	4.826	(0.431)	167933	10.0000	11.4344
4 Bromomethane	94	5.546	5.546	(0.496)	60262	10.0000	10.5957
5 Chloroethane	64	5.754	5.754	(0.514)	92608	10.0000	11.3630
6 Trichlorofluoromethane	101	6.197	6.197	(0.554)	168285	10.0000	11.2888
7 Ethanol	45	6.621	6.621	(0.592)	167380	1000.00	1019.6533
8 Freon 113	101	7.144	7.144	(0.639)	97631	10.0000	11.6100
9 1,1-Dichloroethene	96	7.223	7.223	(0.646)	96890	10.0000	11.4060
10 Acetone	43	7.401	7.401	(0.661)	43350	10.0000	9.4325
11 Isopropanol	45	7.588	7.588	(0.678)	73558	100.000	99.3340
12 Carbon Disulfide	76	7.657	7.657	(0.684)	424368	10.0000	11.2725
13 Methylene Chloride	84	8.190	8.190	(0.732)	127736	10.0000	10.5760
14 tert-Butyl Alcohol (TBA)	59	8.308	8.308	(0.743)	98435	100.000	132.7518(M) K 3/20/06
15 MTBE	73	8.535	8.535	(0.763)	323902	10.0000	10.7548
16 trans-1,2-Dichloroethene	96	8.594	8.594	(0.768)	120587	10.0000	11.3527

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH12.D
Report Date: 20-Mar-2006 09:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	9.324	9.324	(0.833)	477225	10.0000	10.9400
	18 1,1-Dichloroethane	63	9.393	9.393	(0.840)	220953	10.0000	11.5120
	19 Vinyl Acetate	43	9.403	9.403	(0.840)	263666	10.0000	10.0631
	20 Ethyl tert-Butyl Ether (ETBE)	59	9.935	9.935	(0.888)	343304	10.0000	10.6779
	21 2,2-Dichloropropane	77	10.349	10.349	(0.925)	128921	10.0000	11.2774
	22 cis-1,2-Dichloroethene	96	10.389	10.389	(0.929)	127254	10.0000	10.8856
	23 2-Butanone	43	10.399	10.399	(0.929)	61263	10.0000	10.6525
	24 Bromochloromethane	128	10.803	10.803	(0.966)	61909	10.0000	11.0512
	25 Tetrahydrofuran	42	10.813	10.813	(0.967)	347594	100.000	105.4411
	26 Chloroform	83	10.882	10.882	(0.973)	195542	10.0000	10.8987
$	27 Dibromofluoromethane	113	11.158	11.158	(0.997)	250952	50.0000	50.7238
	28 1,1,1-Trichloroethane	97	11.178	11.178	(0.999)	135335	10.0000	11.1750
*	29 Pentafluorobenzene	168	11.188	11.188	(1.000)	431167	50.0000	
	30 Carbon Tetrachloride	117	11.395	11.395	(0.917)	106540	10.0000	11.1311
	31 1,1-Dichloropropene	75	11.444	11.444	(0.921)	144273	10.0000	11.5459
$	32 1,2-Dichloroethane-d4	65	11.789	11.789	(0.948)	232957	50.0000	50.9887
	33 Benzene	78	11.789	11.789	(0.948)	460275	10.0000	11.0219
	34 Methyl tert-Amyl Ether (TAME)	73	11.868	11.868	(0.955)	302908	10.0000	10.5336
	35 1,2-Dichloroethane	62	11.917	11.917	(0.959)	126831	10.0000	10.4550
*	36 1,4-Difluorobenzene	114	12.430	12.430	(1.000)	743967	50.0000	
	37 Trichloroethene	95	12.844	12.844	(1.033)	113391	10.0000	11.3543
	38 1,2-Dichloropropane	63	13.308	13.308	(1.071)	129497	10.0000	11.1690
$	39 Trifluorotoluene	146	13.318	13.318	(1.071)	136514	10.0000	10.8147
	40 Dibromomethane	93	13.515	13.515	(1.087)	77596	10.0000	10.8984
	41 Bromodichloromethane	83	13.722	13.722	(1.104)	139489	10.0000	10.8504
	42 2-Chloroethylvinylether	63	14.196	14.196	(1.142)	43792	10.0000	10.0049
	43 Tetramethyl THF	43	14.462	14.462	(1.163)	220164	10.0000	10.6090
	44 cis-1,3-Dichloropropene	75	14.472	14.472	(1.164)	187470	10.0000	10.9822
	45 4-Methyl-2-Pentanone	43	14.679	14.679	(1.181)	113029	10.0000	10.2069
$	46 Toluene-d8	98	14.847	14.847	(1.194)	709885	50.0000	49.5133
	47 Toluene	92	14.955	14.955	(1.203)	267150	10.0000	11.2066
	48 trans-1,3-Dichloropropene	75	15.349	15.349	(1.235)	158623	10.0000	10.7144
	49 1,1,2-Trichloroethane	85	15.636	15.636	(1.258)	55425	10.0000	10.6612
	50 Tetrachloroethene	166	15.744	15.744	(0.927)	92544	10.0000	11.2778
	51 1,3-Dichloropropane	76	15.902	15.902	(0.936)	171443	10.0000	10.5529
	52 2-Hexanone	43	15.941	15.941	(0.938)	75169	10.0000	10.1385
	53 Dibromochloromethane	129	16.188	16.188	(0.953)	105876	10.0000	10.5191
	54 1,2-Dibromoethane	107	16.395	16.395	(1.319)	110991	10.0000	10.4840
*	55 Chlorobenzene-d5	117	16.987	16.987	(1.000)	593292	50.0000	
	56 Chlorobenzene	112	17.026	17.026	(1.002)	287511	10.0000	10.7473
	57 Ethylbenzene	91	17.105	17.105	(1.007)	477309	10.0000	11.1963
	58 1,1,1,2-Tetrachloroethane	131	17.125	17.125	(1.008)	95535	10.0000	10.8128
	59 m,p-Xylenes	106	17.253	17.253	(1.016)	360533	20.0000	22.7886
	60 o-Xylene	106	17.785	17.785	(1.047)	177282	10.0000	11.0504
	61 Styrene	104	17.805	17.805	(1.048)	310347	10.0000	11.1945
	62 Bromoform	173	18.101	18.101	(1.066)	74256	10.0000	10.1587
	63 Isopropylbenzene	105	18.210	18.210	(0.919)	417743	10.0000	11.1705

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH12.D
Report Date: 20-Mar-2006 09:44

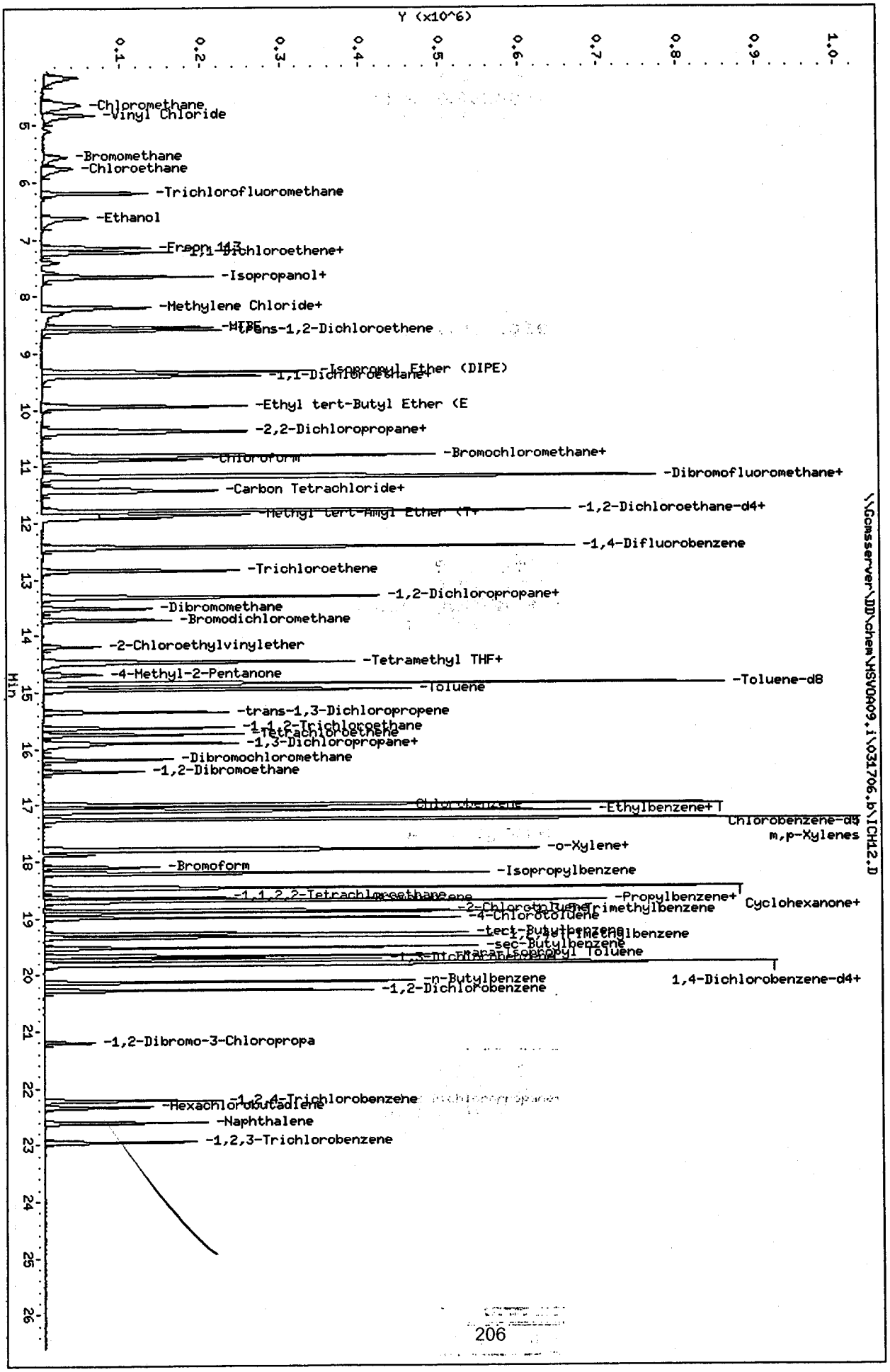
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone	55	18.456	18.456	(0.932)	139476	100.000	125.8364
$ 65 Bromofluorobenzene	95	18.466	18.466	(0.932)	300460	50.0000	49.7944
66 1,1,2,2-Tetrachloroethane	83	18.634	18.634	(0.941)	135967	10.0000	10.3648
67 Bromobenzene	156	18.673	18.673	(0.943)	112217	10.0000	10.5566
68 Propylbenzene	91	18.703	18.703	(0.944)	535315	10.0000	11.3364
69 1,2,3-Trichloropropane	110	18.722	18.722	(0.945)	34046	10.0000	10.7244
70 2-Chlorotoluene	91	18.870	18.870	(0.953)	362497	10.0000	11.1343
71 1,3,5-Trimethylbenzene	105	18.900	18.900	(0.954)	340127	10.0000	11.1617
72 4-Chlorotoluene	91	18.999	18.999	(0.959)	337070	10.0000	10.9552
73 tert-Butylbenzene	119	19.275	19.275	(0.973)	268546	10.0000	11.1722
74 1,2,4-Trimethylbenzene	105	19.344	19.344	(0.977)	348492	10.0000	11.2668
75 sec-Butylbenzene	105	19.521	19.521	(0.986)	426978	10.0000	11.4604
76 para-Isopropyl Toluene	119	19.659	19.659	(0.993)	327041	10.0000	11.5602
77 1,3-Dichlorobenzene	146	19.728	19.728	(0.996)	197884	10.0000	10.6455
* 78 1,4-Dichlorobenzene-d4	152	19.807	19.807	(1.000)	264011	50.0000	
79 1,4-Dichlorobenzene	146	19.827	19.827	(1.001)	206611	10.0000	10.7029
80 n-Butylbenzene	91	20.123	20.123	(1.016)	303501	10.0000	11.9857
81 1,2-Dichlorobenzene	146	20.271	20.271	(1.023)	189621	10.0000	10.7875
82 1,2-Dibromo-3-Chloropropane	75	21.198	21.198	(1.070)	21297	10.0000	11.6191
83 1,2,4-Trichlorobenzene	180	22.223	22.223	(1.122)	93234	10.0000	12.1268
84 Hexachlorobutadiene	225	22.342	22.342	(1.128)	34722	10.0000	12.5635
85 Naphthalene	128	22.608	22.608	(1.141)	219695	10.0000	12.2302
86 1,2,3-Trichlorobenzene	180	22.953	22.953	(1.159)	82714	10.0000	12.3917

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA09.i\031706.b\ICH12.D
Date : 17-MAR-2006 15:39
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.002/100,S2783,0.002/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: VOC
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH13.D
Report Date: 20-Mar-2006 09:44

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH13.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-MAR-2006 16:14 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2844,0.004/100,S2783,0.004/100
Misc Info : S2410,0.002/100,20PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\826GOX9W.m
Meth Date : 20-Mar-2006 09:44 target Quant Type: ISTD
Cal Date : 17-MAR-2006 13:19 Cal File: ICH08.D
Als bottle: 13 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.165	4.165	(0.372)	246635	20.0000	19.6250
2 Chloromethane	50	4.648	4.648	(0.416)	379029	20.0000	20.0468
3 Vinyl Chloride	62	4.826	4.826	(0.431)	296409	20.0000	19.8936
4 Bromomethane	94	5.556	5.556	(0.497)	122889	20.0000	21.2983
5 Chloroethane	64	5.753	5.753	(0.514)	164004	20.0000	19.8356
6 Trichlorofluoromethane	101	6.197	6.197	(0.554)	292719	20.0000	19.3552
7 Ethanol	45	6.621	6.621	(0.592)	349397	2000.00	2098.0364
8 Freon 113	101	7.143	7.143	(0.639)	181079	20.0000	21.2255
9 1,1-Dichloroethene	96	7.232	7.232	(0.647)	176716	20.0000	20.5057
10 Acetone	43	7.400	7.400	(0.661)	88464	20.0000	18.9737
11 Isopropanol	45	7.577	7.577	(0.677)	155205	200.000	206.5945
12 Carbon Disulfide	76	7.656	7.656	(0.684)	778461	20.0000	20.3827
13 Methylene Chloride	84	8.199	8.199	(0.733)	243069	20.0000	19.8374
14 tert-Butyl Alcohol (TBA)	59	8.287	8.287	(0.741)	207418	200.000	264.5381(M)
15 MTBE	73	8.534	8.534	(0.763)	629498	20.0000	20.6028
16 trans-1,2-Dichloroethene	96	8.593	8.593	(0.768)	216695	20.0000	20.1092

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH13.D
Report Date: 20-Mar-2006 09:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	9.323	9.323	(0.833)	934053	20.0000	21.1063
	18 1,1-Dichloroethane	63	9.392	9.392	(0.840)	399995	20.0000	20.5425
	19 Vinyl Acetate	43	9.402	9.402	(0.840)	566898	20.0000	21.3268
	20 Ethyl tert-Butyl Ether (ETBE)	59	9.934	9.934	(0.888)	676058	20.0000	20.7271
	21 2,2-Dichloropropane	77	10.349	10.349	(0.925)	243752	20.0000	21.0174
	22 cis-1,2-Dichloroethene	96	10.388	10.388	(0.929)	242937	20.0000	20.4843
	23 2-Butanone	43	10.398	10.398	(0.929)	119926	20.0000	20.5547
	24 Bromochloromethane	128	10.802	10.802	(0.966)	118456	20.0000	20.8428
	25 Tetrahydrofuran	42	10.812	10.812	(0.967)	669884	200.000	200.3006
	26 Chloroform	83	10.881	10.881	(0.973)	363757	20.0000	19.9845
$	27 Dibromofluoromethane	113	11.157	11.157	(0.997)	251670	50.0000	50.1416
	28 1,1,1-Trichloroethane	97	11.177	11.177	(0.999)	248163	20.0000	20.1986
*	29 Pentafluorobenzene	168	11.187	11.187	(1.000)	437422	50.0000	
	30 Carbon Tetrachloride	117	11.394	11.394	(0.917)	195894	20.0000	20.3458
	31 1,1-Dichloropropene	75	11.443	11.443	(0.921)	262606	20.0000	20.8918
$	32 1,2-Dichloroethane-d4	65	11.789	11.789	(0.948)	234573	50.0000	51.0394
	33 Benzene	78	11.789	11.789	(0.948)	851262	20.0000	20.2644
	34 Methyl tert-Amyl Ether (TAME)	73	11.867	11.867	(0.955)	610554	20.0000	21.1066
	35 1,2-Dichloroethane	62	11.917	11.917	(0.959)	251480	20.0000	20.6078
*	36 1,4-Difluorobenzene	114	12.430	12.430	(1.000)	748384	50.0000	
	37 Trichloroethene	95	12.844	12.844	(1.033)	201876	20.0000	20.0954
	38 1,2-Dichloropropane	63	13.307	13.307	(1.071)	244785	20.0000	20.9880
$	39 Trifluorotoluene	146	13.317	13.317	(1.071)	255179	20.0000	20.0961
	40 Dibromomethane	93	13.514	13.514	(1.087)	151832	20.0000	21.1991
	41 Bromodichloromethane	83	13.722	13.722	(1.104)	267894	20.0000	20.7156
	42 2-Chloroethylvinylether	63	14.195	14.195	(1.142)	90896	20.0000	20.6439
	43 Tetramethyl THF	43	14.451	14.451	(1.163)	448977	20.0000	21.5072
	44 cis-1,3-Dichloropropene	75	14.471	14.471	(1.164)	360361	20.0000	20.9858
	45 4-Methyl-2-Pentanone	43	14.678	14.678	(1.181)	230021	20.0000	20.6491
$	46 Toluene-d8	98	14.846	14.846	(1.194)	721157	50.0000	50.0026
	47 Toluene	92	14.954	14.954	(1.203)	494735	20.0000	20.6311
	48 trans-1,3-Dichloropropene	75	15.349	15.349	(1.235)	314188	20.0000	21.0971
	49 1,1,2-Trichloroethane	85	15.635	15.635	(1.258)	107334	20.0000	20.5242
	50 Tetrachloroethene	166	15.753	15.753	(0.927)	166555	20.0000	19.9931
	51 1,3-Dichloropropane	76	15.901	15.901	(0.936)	340772	20.0000	20.6616
	52 2-Hexanone	43	15.931	15.931	(0.938)	153535	20.0000	20.3979
	53 Dibromochloromethane	129	16.187	16.187	(0.953)	209951	20.0000	20.5469
	54 1,2-Dibromoethane	107	16.394	16.394	(1.319)	223309	20.0000	20.9689
*	55 Chlorobenzene-d5	117	16.986	16.986	(1.000)	602316	50.0000	
	56 Chlorobenzene	112	17.025	17.025	(1.002)	541502	20.0000	19.9384
	57 Ethylbenzene	91	17.104	17.104	(1.007)	879299	20.0000	20.3169
	58 1,1,1,2-Tetrachloroethane	131	17.124	17.124	(1.008)	183137	20.0000	20.4172
	59 m,p-Xylenes	106	17.252	17.252	(1.016)	670618	40.0000	41.7534
	60 o-Xylene	106	17.785	17.785	(1.047)	333251	20.0000	20.4611
	61 Styrene	104	17.805	17.805	(1.048)	592582	20.0000	21.0548
	62 Bromoform	173	18.100	18.100	(1.066)	150542	20.0000	20.2865
	63 Isopropylbenzene	105	18.209	18.209	(0.919)	773902	20.0000	20.3075

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH13.D
Report Date: 20-Mar-2006 09:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone	55	18.455	18.455	(0.932)	270907	200.000	239.8467
$ 65 Bromofluorobenzene	95	18.465	18.465	(0.932)	309247	50.0000	50.2928
66 1,1,2,2-Tetrachloroethane	83	18.633	18.633	(0.941)	272334	20.0000	20.3721
67 Bromobenzene	156	18.672	18.672	(0.943)	216631	20.0000	19.9984
68 Propylbenzene	91	18.702	18.702	(0.944)	988510	20.0000	20.5425
69 1,2,3-Trichloropropane	110	18.722	18.722	(0.945)	68192	20.0000	21.0790
70 2-Chlorotoluene	91	18.870	18.870	(0.953)	682723	20.0000	20.5784
71 1,3,5-Trimethylbenzene	105	18.899	18.899	(0.954)	649717	20.0000	20.9228
72 4-Chlorotoluene	91	18.998	18.998	(0.959)	630712	20.0000	20.1159
73 tert-Butylbenzene	119	19.274	19.274	(0.973)	503654	20.0000	20.5618
74 1,2,4-Trimethylbenzene	105	19.343	19.343	(0.977)	663871	20.0000	21.0619
75 sec-Butylbenzene	105	19.521	19.521	(0.986)	806227	20.0000	21.2354
76 para-Isopropyl Toluene	119	19.659	19.659	(0.993)	620866	20.0000	21.5361
77 1,3-Dichlorobenzene	146	19.728	19.728	(0.996)	390318	20.0000	20.6054
* 78 1,4-Dichlorobenzene-d4	152	19.807	19.807	(1.000)	269039	50.0000	
79 1,4-Dichlorobenzene	146	19.826	19.826	(1.001)	403179	20.0000	20.4952
80 n-Butylbenzene	91	20.122	20.122	(1.016)	578316	20.0000	22.4117
81 1,2-Dichlorobenzene	146	20.270	20.270	(1.023)	366773	20.0000	20.4757
82 1,2-Dibromo-3-Chloropropane	75	21.197	21.197	(1.070)	40751	20.0000	21.8172
83 1,2,4-Trichlorobenzene	180	22.223	22.223	(1.122)	186408	20.0000	23.7926
84 Hexachlorobutadiene	225	22.341	22.341	(1.128)	64295	20.0000	22.8292
85 Naphthalene	128	22.607	22.607	(1.141)	450079	20.0000	24.5872
86 1,2,3-Trichlorobenzene	180	22.953	22.953	(1.159)	169139	20.0000	24.8659

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA09.i\031706.b\ICH13.D
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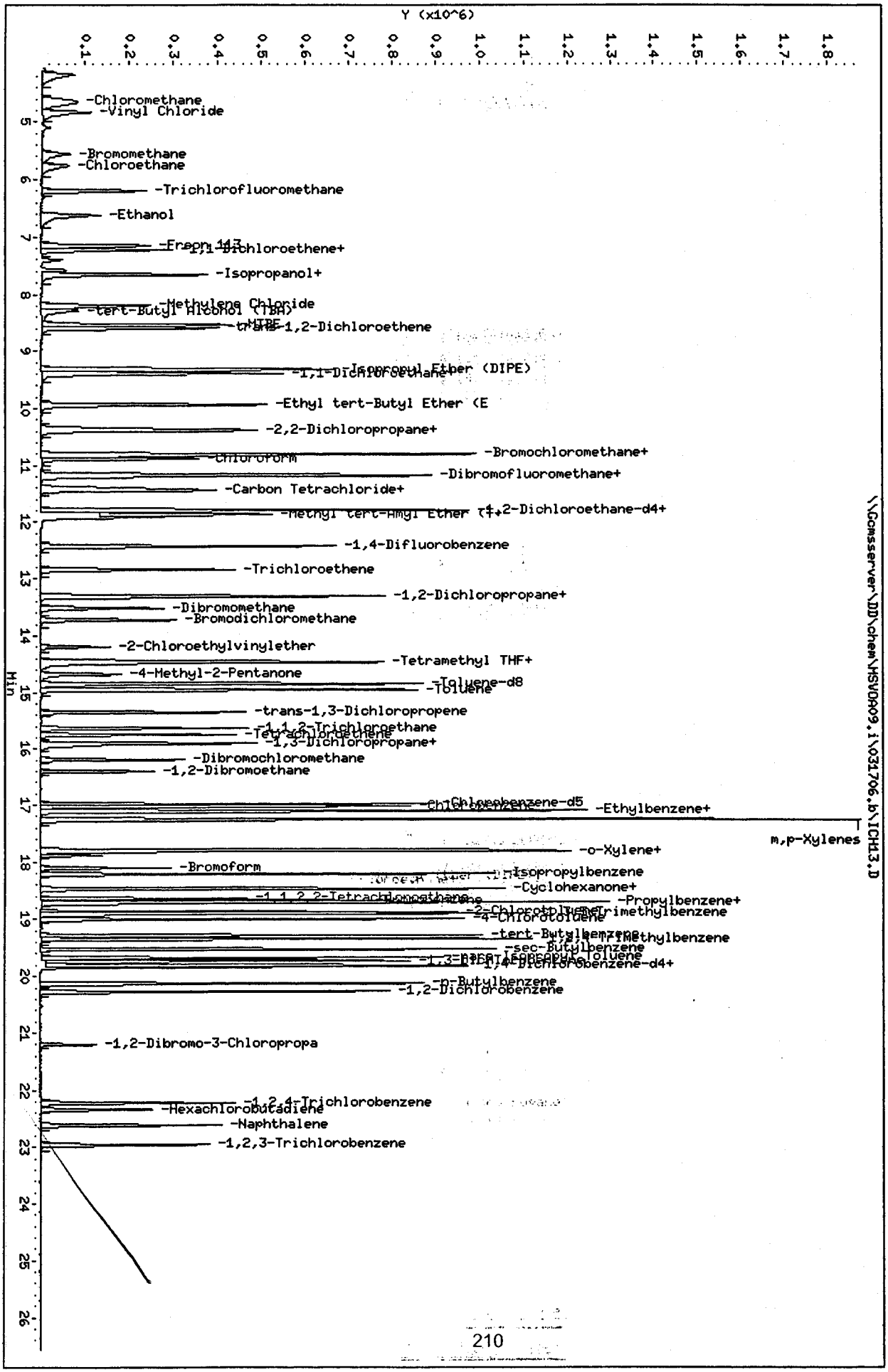
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: VOC
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH14.D
Report Date: 20-Mar-2006 09:44

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH14.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-MAR-2006 16:48 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
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Misc Info : S2410,0.005/100,50PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\826GOX9W.m
Meth Date : 20-Mar-2006 09:44 target Quant Type: ISTD
Cal Date : 17-MAR-2006 13:19 Cal File: ICH08.D
Als bottle: 14 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.174	4.174	(0.373)	662528	50.0000	51.0845
2 Chloromethane	50	4.657	4.657	(0.416)	916581	50.0000	46.9757
3 Vinyl Chloride	62	4.825	4.825	(0.431)	756254	50.0000	49.1836
4 Bromomethane	94	5.555	5.555	(0.497)	359220	50.0000	60.3284
5 Chloroethane	64	5.762	5.762	(0.515)	421883	50.0000	49.4439
6 Trichlorofluoromethane	101	6.196	6.196	(0.554)	751501	50.0000	48.1511
7 Ethanol	45	6.610	6.610	(0.591)	882416	5000.00	5134.4825
8 Freon 113	101	7.143	7.143	(0.639)	398596	50.0000	45.2744
9 1,1-Dichloroethene	96	7.231	7.231	(0.646)	425109	50.0000	47.8002
10 Acetone	43	7.399	7.399	(0.661)	217794	50.0000	45.2649
11 Isopropanol	45	7.576	7.576	(0.677)	410113	500.000	528.9884
12 Carbon Disulfide	76	7.665	7.665	(0.685)	1860984	50.0000	47.2169
13 Methylene Chloride	84	8.198	8.198	(0.733)	608027	50.0000	48.0848
14 tert-Butyl Alcohol (TBA)	59	8.287	8.287	(0.741)	536291	500.000	651.2830(M) 3/20/06
15 MTBE	73	8.533	8.533	(0.763)	1602925	50.0000	50.8365
16 trans-1,2-Dichloroethene	96	8.592	8.592	(0.768)	531964	50.0000	47.8364

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH14.D
Report Date: 20-Mar-2006 09:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	9.322	9.322	(0.833)	2318807	50.0000	50.7733
	18 1,1-Dichloroethane	63	9.401	9.401	(0.840)	988497	50.0000	49.1930
	19 Vinyl Acetate	43	9.401	9.401	(0.840)	1343991	50.0000	48.9946
	20 Ethyl tert-Butyl Ether (ETBE)	59	9.934	9.934	(0.888)	1685990	50.0000	50.0886
	21 2,2-Dichloropropane	77	10.348	10.348	(0.925)	563238	50.0000	47.0601
	22 cis-1,2-Dichloroethene	96	10.387	10.387	(0.929)	600992	50.0000	49.1050
	23 2-Butanone	43	10.397	10.397	(0.929)	309065	50.0000	51.3309
	24 Bromochloromethane	128	10.801	10.801	(0.966)	299285	50.0000	51.0287
	25 Tetrahydrofuran	42	10.801	10.801	(0.966)	1626715	500.000	471.3284
	26 Chloroform	83	10.880	10.880	(0.973)	896140	50.0000	47.7075
$	27 Dibromofluoromethane	113	11.166	11.166	(0.998)	257910	50.0000	49.7925
	28 1,1,1-Trichloroethane	97	11.176	11.176	(0.999)	577184	50.0000	45.5228
*	29 Pentafluorobenzene	168	11.186	11.186	(1.000)	451410	50.0000	
	30 Carbon Tetrachloride	117	11.403	11.403	(0.917)	453292	50.0000	46.0000
	31 1,1-Dichloropropene	75	11.442	11.442	(0.921)	605316	50.0000	47.0522
$	32 1,2-Dichloroethane-d4	65	11.788	11.788	(0.948)	231890	50.0000	49.2986
	33 Benzene	78	11.788	11.788	(0.948)	2051306	50.0000	47.7118
	34 Methyl tert-Amyl Ether (TAME)	73	11.867	11.867	(0.955)	1501355	50.0000	50.7112
	35 1,2-Dichloroethane	62	11.916	11.916	(0.959)	620678	50.0000	49.6958
*	36 1,4-Difluorobenzene	114	12.429	12.429	(1.000)	765948	50.0000	
	37 Trichloroethene	95	12.843	12.843	(1.033)	491085	50.0000	47.7634
	38 1,2-Dichloropropane	63	13.306	13.306	(1.071)	598671	50.0000	50.1534
$	39 Trifluorotoluene	146	13.316	13.316	(1.071)	583863	50.0000	44.9266
	40 Dibromomethane	93	13.514	13.514	(1.087)	384883	50.0000	52.5061
	41 Bromodichloromethane	83	13.721	13.721	(1.104)	667666	50.0000	50.4452
	42 2-Chloroethylvinylether	63	14.194	14.194	(1.142)	232672	50.0000	51.6319
	43 Tetramethyl THF	43	14.450	14.450	(1.163)	1124290	50.0000	52.6216
	44 cis-1,3-Dichloropropene	75	14.470	14.470	(1.164)	883107	50.0000	50.2488
	45 4-Methyl-2-Pentanone	43	14.667	14.667	(1.180)	588648	50.0000	51.6315
$	46 Toluene-d8	98	14.845	14.845	(1.194)	736810	50.0000	49.9165
	47 Toluene	92	14.953	14.953	(1.203)	1182731	50.0000	48.1904
	48 trans-1,3-Dichloropropene	75	15.348	15.348	(1.235)	781551	50.0000	51.2761
	49 1,1,2-Trichloroethane	85	15.634	15.634	(1.258)	270298	50.0000	50.5007
	50 Tetrachloroethene	166	15.752	15.752	(0.927)	385935	50.0000	45.4381
	51 1,3-Dichloropropane	76	15.900	15.900	(0.936)	854276	50.0000	50.8021
	52 2-Hexanone	43	15.930	15.930	(0.938)	401771	50.0000	52.3530
	53 Dibromochloromethane	129	16.186	16.186	(0.953)	538976	50.0000	51.7347
	54 1,2-Dibromoethane	107	16.403	16.403	(1.320)	561694	50.0000	51.5342
*	55 Chlorobenzene-d5	117	16.985	16.985	(1.000)	614102	50.0000	
	56 Chlorobenzene	112	17.025	17.025	(1.002)	1333236	50.0000	48.1484
	57 Ethylbenzene	91	17.103	17.103	(1.007)	2067781	50.0000	46.8609
	58 1,1,1,2-Tetrachloroethane	131	17.123	17.123	(1.008)	453794	50.0000	49.6207
	59 m,p-Xylenes	106	17.251	17.251	(1.016)	1568512	100.000	95.7832
	60 o-Xylene	106	17.784	17.784	(1.047)	805939	50.0000	48.5338
	61 Styrene	104	17.813	17.813	(1.049)	1467871	50.0000	51.1536
	62 Bromoform	173	18.099	18.099	(1.066)	387898	50.0000	51.2687
	63 Isopropylbenzene	105	18.208	18.208	(0.919)	1774666	50.0000	45.5699

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH14.D
Report Date: 20-Mar-2006 09:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone	55	18.455	18.455	(0.932)	696162	500.000	603.1362
$ 65 Bromofluorobenzene	95	18.474	18.474	(0.933)	312141	50.0000	49.6756
66 1,1,2,2-Tetrachloroethane	83	18.632	18.632	(0.941)	674563	50.0000	49.3797
67 Bromobenzene	156	18.671	18.671	(0.943)	541144	50.0000	48.8854
68 Propylbenzene	91	18.701	18.701	(0.944)	2219864	50.0000	45.1430
69 1,2,3-Trichloropropane	110	18.721	18.721	(0.945)	170918	50.0000	51.7006
70 2-Chlorotoluene	91	18.869	18.869	(0.953)	1625114	50.0000	47.9339
71 1,3,5-Trimethylbenzene	105	18.898	18.898	(0.954)	1490373	50.0000	46.9659
72 4-Chlorotoluene	91	18.997	18.997	(0.959)	1538315	50.0000	48.0115
73 tert-Butylbenzene	119	19.273	19.273	(0.973)	1095717	50.0000	43.7743
74 1,2,4-Trimethylbenzene	105	19.342	19.342	(0.977)	1538600	50.0000	47.7675
75 sec-Butylbenzene	105	19.520	19.520	(0.986)	1717838	50.0000	44.2769
76 para-Isopropyl Toluene	119	19.668	19.668	(0.993)	1344144	50.0000	45.6255
77 1,3-Dichlorobenzene	146	19.727	19.727	(0.996)	942725	50.0000	48.7012
* 78 1,4-Dichlorobenzene-d4	152	19.806	19.806	(1.000)	274931	50.0000	
79 1,4-Dichlorobenzene	146	19.835	19.835	(1.001)	977557	50.0000	48.6283
80 n-Butylbenzene	91	20.131	20.131	(1.016)	1225483	50.0000	46.4739
81 1,2-Dichlorobenzene	146	20.269	20.269	(1.023)	903198	50.0000	49.3420
82 1,2-Dibromo-3-Chloropropane	75	21.196	21.196	(1.070)	97175	50.0000	50.9105
83 1,2,4-Trichlorobenzene	180	22.222	22.222	(1.122)	444136	50.0000	55.4736
84 Hexachlorobutadiene	225	22.340	22.340	(1.128)	112000	50.0000	38.9155
85 Naphthalene	128	22.607	22.607	(1.141)	1143368	50.0000	61.1222
86 1,2,3-Trichlorobenzene	180	22.952	22.952	(1.159)	413686	50.0000	59.5147

QC Flag Legend

M - Compound response manually integrated.

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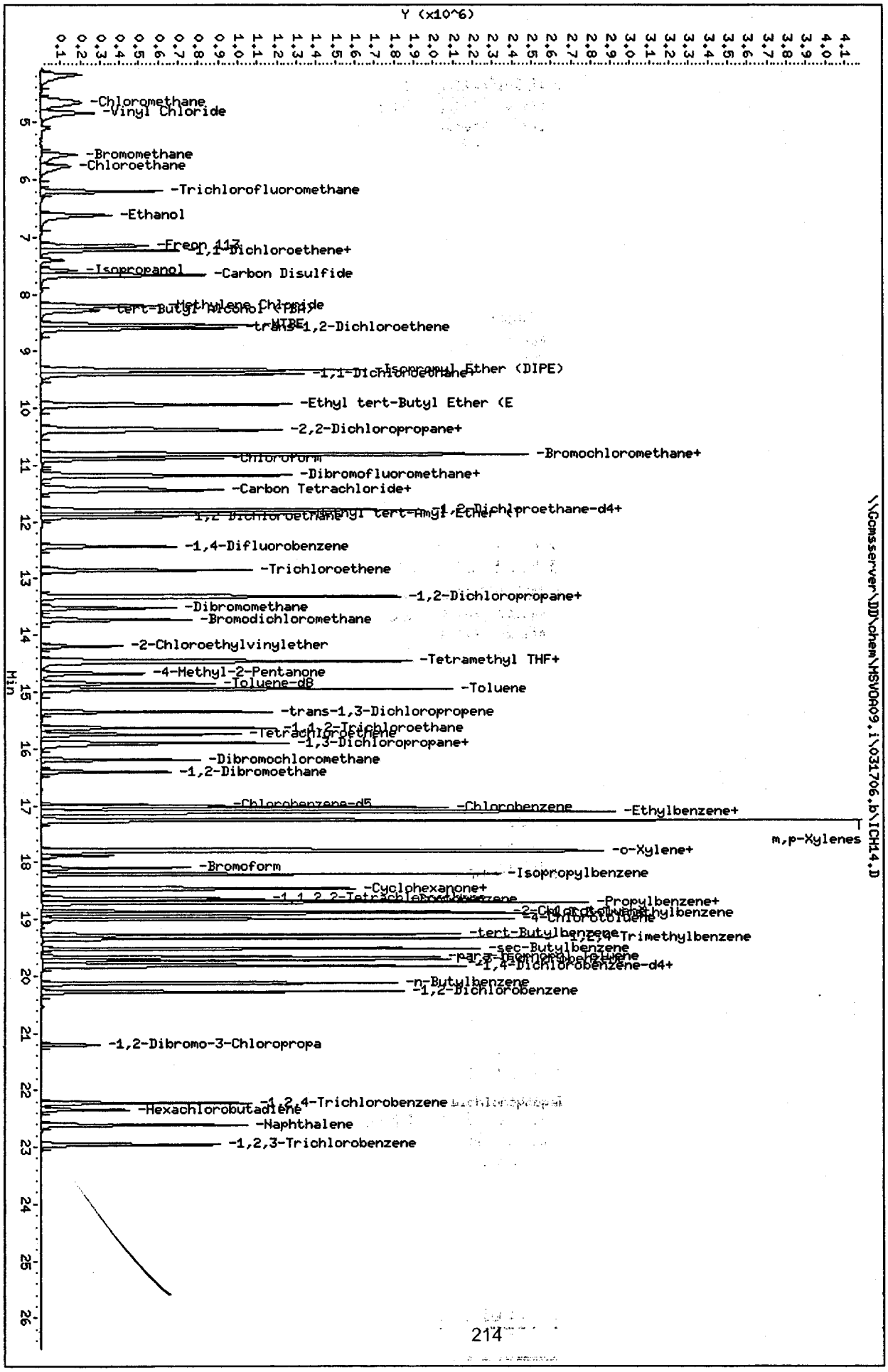
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA09.i
Operator: VOC
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH15.D
Report Date: 20-Mar-2006 09:44

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Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH15.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-MAR-2006 17:25 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2844,0.015/100,S2783,0.015/100
Misc Info : S2410,0.0075/100,75PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\826GOX9W.m
Meth Date : 20-Mar-2006 09:44 target Quant Type: ISTD
Cal Date : 17-MAR-2006 13:19 Cal File: ICH08.D
Als bottle: 15 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.165	4.165	(0.372)	1109762	75.0000	82.6790
2 Chloromethane	50	4.648	4.648	(0.416)	1408526	75.0000	69.7506
3 Vinyl Chloride	62	4.825	4.825	(0.431)	1246501	75.0000	78.3295
4 Bromomethane	94	5.555	5.555	(0.497)	601936	75.0000	97.6770
5 Chloroethane	64	5.752	5.752	(0.514)	673732	75.0000	76.2937
6 Trichlorofluoromethane	101	6.196	6.196	(0.554)	1269022	75.0000	78.5646
7 Ethanol	45	6.610	6.610	(0.591)	1348499	7500.00	7581.4864
8 Freon 113	101	7.143	7.143	(0.639)	868221	75.0000	95.2864
9 1,1-Dichloroethene	96	7.222	7.222	(0.646)	727053	75.0000	78.9908
10 Acetone	43	7.399	7.399	(0.661)	321635	75.0000	64.5891
11 Isopropanol	45	7.567	7.567	(0.676)	612754	750.000	763.6761
12 Carbon Disulfide	76	7.656	7.656	(0.684)	3079758	75.0000	75.5008
13 Methylene Chloride	84	8.188	8.188	(0.732)	920296	75.0000	70.3223
14 tert-Butyl Alcohol (TBA)	59	8.277	8.277	(0.740)	833749	750.000	966.8223 (M) 4/3/2006
15 MTBE	73	8.534	8.534	(0.763)	2438411	75.0000	74.7223
16 trans-1,2-Dichloroethene	96	8.593	8.593	(0.768)	838385	75.0000	72.8451

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH15.D
Report Date: 20-Mar-2006 09:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	9.323	9.323	(0.833)	3459117	75.0000	73.1841
	18 1,1-Dichloroethane	63	9.392	9.392	(0.840)	1482447	75.0000	71.2833
	19 Vinyl Acetate	43	9.401	9.401	(0.840)	2131178	75.0000	75.0675
	20 Ethyl tert-Butyl Ether (ETBE)	59	9.934	9.934	(0.888)	2568128	75.0000	73.7193
	21 2,2-Dichloropropane	77	10.348	10.348	(0.925)	937528	75.0000	75.6878
	22 cis-1,2-Dichloroethene	96	10.388	10.388	(0.929)	907356	75.0000	71.6333
	23 2-Butanone	43	10.397	10.397	(0.929)	464998	75.0000	74.6209
	24 Bromochloromethane	128	10.802	10.802	(0.966)	452394	75.0000	74.5293
	25 Tetrahydrofuran	42	10.802	10.802	(0.966)	2431484	750.000	680.7129
	26 Chloroform	83	10.881	10.881	(0.973)	1356936	75.0000	69.7993
$	27 Dibromofluoromethane	113	11.157	11.157	(0.997)	266938	50.0000	49.7951
	28 1,1,1-Trichloroethane	97	11.177	11.177	(0.999)	991615	75.0000	75.5681
*	29 Pentafluorobenzene	168	11.186	11.186	(1.000)	467187	50.0000	
	30 Carbon Tetrachloride	117	11.403	11.403	(0.917)	843603	75.0000	81.6822
	31 1,1-Dichloropropene	75	11.443	11.443	(0.921)	1072411	75.0000	79.5369
$	32 1,2-Dichloroethane-d4	65	11.788	11.788	(0.948)	240214	50.0000	48.7260
	33 Benzene	78	11.788	11.788	(0.948)	3159615	75.0000	70.1197
	34 Methyl tert-Amyl Ether (TAME)	73	11.867	11.867	(0.955)	2335909	75.0000	75.2812
	35 1,2-Dichloroethane	62	11.916	11.916	(0.959)	946898	75.0000	72.3380
*	36 1,4-Difluorobenzene	114	12.429	12.429	(1.000)	802767	50.0000	
	37 Trichloroethene	95	12.843	12.843	(1.033)	788703	75.0000	73.1917
	38 1,2-Dichloropropane	63	13.307	13.307	(1.071)	890883	75.0000	71.2103
$	39 Trifluorotoluene	146	13.317	13.317	(1.071)	1141437	75.0000	83.8020
	40 Dibromomethane	93	13.514	13.514	(1.087)	582258	75.0000	75.7890
	41 Bromodichloromethane	83	13.721	13.721	(1.104)	1020481	75.0000	73.5657
	42 2-Chloroethylvinylether	63	14.194	14.194	(1.142)	375303	75.0000	79.4631
	43 Tetramethyl THF	43	14.441	14.441	(1.162)	1686175	75.0000	75.3006
	44 cis-1,3-Dichloropropene	75	14.471	14.471	(1.164)	1322511	75.0000	71.7996
	45 4-Methyl-2-Pentanone	43	14.668	14.668	(1.180)	921711	75.0000	77.1372
$	46 Toluene-d8	98	14.845	14.845	(1.194)	782190	50.0000	50.5604
	47 Toluene	92	14.954	14.954	(1.203)	1891146	75.0000	73.5207
	48 trans-1,3-Dichloropropene	75	15.348	15.348	(1.235)	1195447	75.0000	74.8339
	49 1,1,2-Trichloroethane	85	15.634	15.634	(1.258)	417778	75.0000	74.4749
	50 Tetrachloroethene	166	15.753	15.753	(0.927)	718552	75.0000	80.8285
	51 1,3-Dichloropropane	76	15.901	15.901	(0.936)	1289763	75.0000	73.2813
	52 2-Hexanone	43	15.920	15.920	(0.937)	621992	75.0000	77.4369
	53 Dibromochloromethane	129	16.187	16.187	(0.953)	818403	75.0000	75.0550
	54 1,2-Dibromoethane	107	16.404	16.404	(1.320)	859748	75.0000	75.2622
*	55 Chlorobenzene-d5	117	16.985	16.985	(1.000)	642748	50.0000	
	56 Chlorobenzene	112	17.025	17.025	(1.002)	2072617	75.0000	71.5145
	57 Ethylbenzene	91	17.104	17.104	(1.007)	3386347	75.0000	73.3225
	58 1,1,1,2-Tetrachloroethane	131	17.124	17.124	(1.008)	694635	75.0000	72.5706
	59 m,p-Xylenes	106	17.262	17.262	(1.016)	2536773	150.000	148.0072
	60 o-Xylene	106	17.784	17.784	(1.047)	1268411	75.0000	72.9797
	61 Styrene	104	17.814	17.814	(1.049)	2261336	75.0000	75.2927
	62 Bromoform	173	18.100	18.100	(1.066)	595489	75.0000	75.1983
	63 Isopropylbenzene	105	18.208	18.208	(0.919)	3161440	75.0000	78.4332

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH15.D
Report Date: 20-Mar-2006 09:44

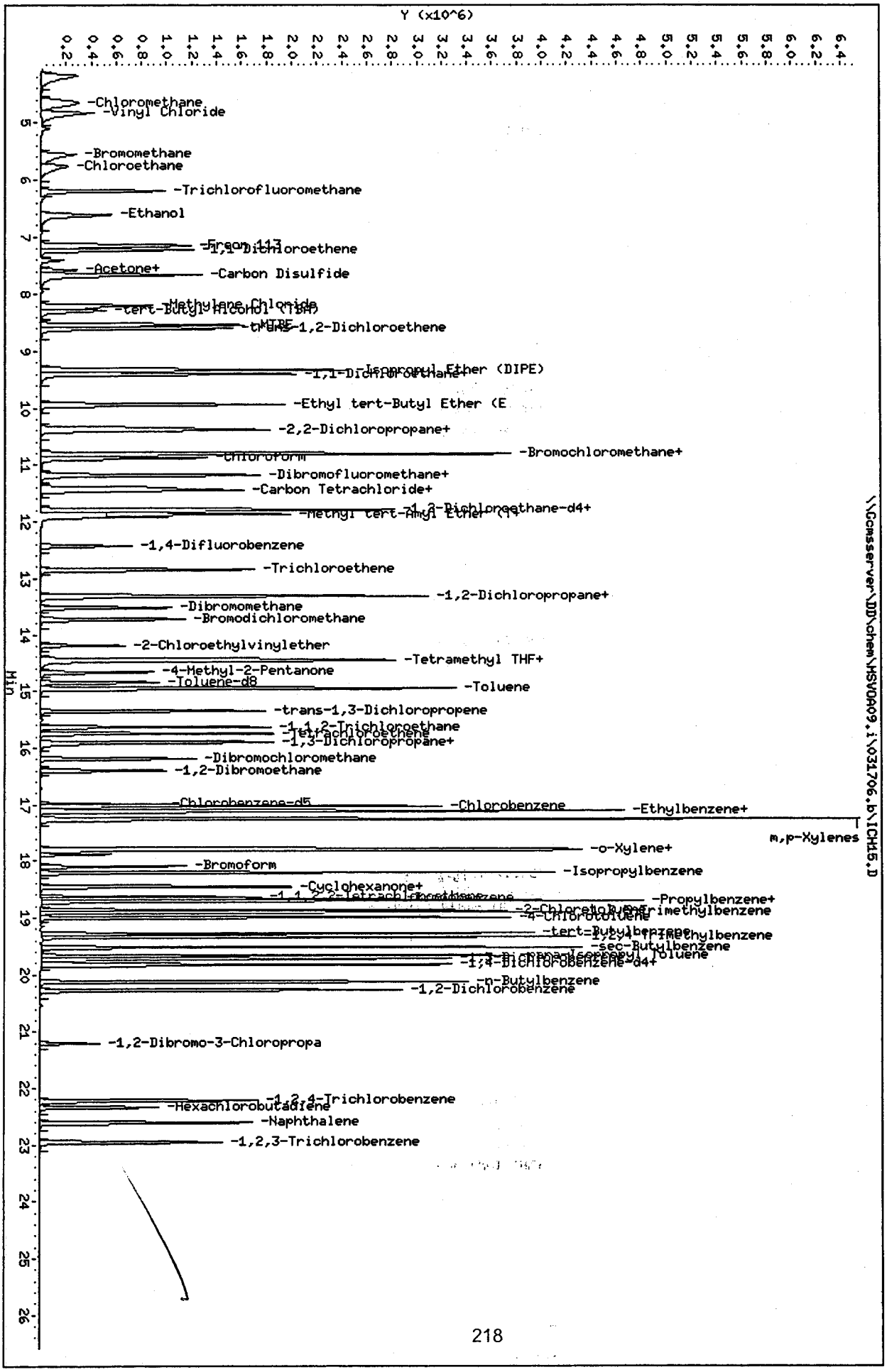
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone	55	18.455	18.455	(0.932)	960511	750.000	804.0080
$ 65 Bromofluorobenzene	95	18.475	18.475	(0.933)	325918	50.0000	50.1133
66 1,1,2,2-Tetrachloroethane	83	18.632	18.632	(0.941)	1057193	75.0000	74.7710
67 Bromobenzene	156	18.672	18.672	(0.943)	847191	75.0000	73.9436
68 Propylbenzene	91	18.701	18.701	(0.944)	3921762	75.0000	77.0546
69 1,2,3-Trichloropropane	110	18.721	18.721	(0.945)	262403	75.0000	76.6884
70 2-Chlorotoluene	91	18.869	18.869	(0.953)	2588628	75.0000	73.7702
71 1,3,5-Trimethylbenzene	105	18.899	18.899	(0.954)	2533573	75.0000	77.1391
72 4-Chlorotoluene	91	18.997	18.997	(0.959)	2408904	75.0000	72.6394
73 tert-Butylbenzene	119	19.274	19.274	(0.973)	2095489	75.0000	80.8833
74 1,2,4-Trimethylbenzene	105	19.343	19.343	(0.977)	2549095	75.0000	76.4620
75 sec-Butylbenzene	105	19.520	19.520	(0.986)	3343922	75.0000	83.2729
76 para-Isopropyl Toluene	119	19.668	19.668	(0.993)	2532253	75.0000	83.0467
77 1,3-Dichlorobenzene	146	19.727	19.727	(0.996)	1511176	75.0000	75.4263
* 78 1,4-Dichlorobenzene-d4	152	19.806	19.806	(1.000)	284558	50.0000	
79 1,4-Dichlorobenzene	146	19.836	19.836	(1.001)	1545632	75.0000	74.2858
80 n-Butylbenzene	91	20.122	20.122	(1.016)	2325589	75.0000	85.2095
81 1,2-Dichlorobenzene	146	20.279	20.279	(1.024)	1407697	75.0000	74.3012
82 1,2-Dibromo-3-Chloropropane	75	21.197	21.197	(1.070)	147928	75.0000	74.8784
83 1,2,4-Trichlorobenzene	180	22.222	22.222	(1.122)	728733	75.0000	87.9410
84 Hexachlorobutadiene	225	22.341	22.341	(1.128)	241758	75.0000	81.1594
85 Naphthalene	128	22.607	22.607	(1.141)	1829626	75.0000	94.4993
86 1,2,3-Trichlorobenzene	180	22.952	22.952	(1.159)	672099	75.0000	93.4199

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\HSVOA09.i\031706.b\ICH15.D
Date : 17-MAR-2006 17:25
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.015/100,S2783,0.015/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA09.i
Operator: VOC
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH16.D
Report Date: 20-Mar-2006 09:44

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH16.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-MAR-2006 17:59 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2844,0.02/100,S2783,0.02/100
Misc Info : S2410,0.01/100,100PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\826GOX9W.m
Meth Date : 20-Mar-2006 09:44 target Quant Type: ISTD
Cal Date : 17-MAR-2006 17:59 Cal File: ICH16.D
Als bottle: 16 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.169	4.169	(0.373)	1412239	100.000	99.5505
2 Chloromethane	50	4.642	4.643	(0.415)	1796171	100.000	84.1589
3 Vinyl Chloride	62	4.830	4.830	(0.432)	1577680	100.000	93.8040
4 Bromomethane	94	5.550	5.550	(0.496)	831277	100.000	127.6314
5 Chloroethane	64	5.757	5.757	(0.514)	881934	100.000	94.4947
6 Trichlorofluoromethane	101	6.201	6.201	(0.554)	1684456	100.000	98.6704
7 Ethanol	45	6.615	6.615	(0.591)	1680692	10000.0	8940.4922
8 Freon 113	101	7.148	7.148	(0.639)	1101992	100.000	114.4323
9 1,1-Dichloroethene	96	7.226	7.226	(0.646)	985811	100.000	101.3383
10 Acetone	43	7.404	7.404	(0.662)	446236	100.000	84.7872
11 Isopropanol	45	7.572	7.572	(0.677)	778876	1000.00	918.4615
12 Carbon Disulfide	76	7.660	7.660	(0.685)	4101683	100.000	95.1408
13 Methylene Chloride	84	8.193	8.193	(0.732)	1265722	100.000	91.5110
14 tert-Butyl Alcohol (TBA)	59	8.282	8.282	(0.740)	1043625	1000.00	1133.2342(M)
15 MTBE	73	8.528	8.528	(0.762)	3366295	100.000	97.6034
16 trans-1,2-Dichloroethene	96	8.597	8.597	(0.768)	1169106	100.000	96.1126

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH16.D
Report Date: 20-Mar-2006 09:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	9.327	9.327	(0.833)	4696516	100.000	94.0150
	18 1,1-Dichloroethane	63	9.396	9.396	(0.840)	2038615	100.000	92.7499
	19 Vinyl Acetate	43	9.396	9.396	(0.840)	2635683	100.000	87.8406
	20 Ethyl tert-Butyl Ether (ETBE)	59	9.939	9.939	(0.888)	3530099	100.000	95.8785
	21 2,2-Dichloropropane	77	10.353	10.353	(0.925)	1263999	100.000	96.5512
	22 cis-1,2-Dichloroethene	96	10.382	10.382	(0.928)	1275768	100.000	95.2969
	23 2-Butanone	43	10.392	10.392	(0.929)	606571	100.000	92.1002
	24 Bromochloromethane	128	10.806	10.806	(0.966)	631558	100.000	98.4449
	25 Tetrahydrofuran	42	10.806	10.806	(0.966)	3050903	1000.00	808.1473
	26 Chloroform	83	10.885	10.885	(0.973)	1904503	100.000	92.6921
$	27 Dibromofluoromethane	113	11.161	11.161	(0.997)	277031	50.0000	48.8961
	28 1,1,1-Trichloroethane	97	11.181	11.181	(0.999)	1342826	100.000	96.8244
*	29 Pentafluorobenzene	168	11.191	11.191	(1.000)	493766	50.0000	
	30 Carbon Tetrachloride	117	11.398	11.398	(0.917)	1119821	100.000	102.5458
	31 1,1-Dichloropropene	75	11.438	11.438	(0.920)	1415066	100.000	99.2576
$	32 1,2-Dichloroethane-d4	65	11.783	11.783	(0.948)	245343	50.0000	47.0669
	33 Benzene	78	11.793	11.793	(0.948)	4368344	100.000	91.6858
	34 Methyl tert-Amyl Ether (TAME)	73	11.862	11.862	(0.954)	3228112	100.000	98.3918
	35 1,2-Dichloroethane	62	11.921	11.921	(0.959)	1312845	100.000	94.8542
*	36 1,4-Difluorobenzene	114	12.434	12.434	(1.000)	848809	50.0000	
	37 Trichloroethene	95	12.848	12.848	(1.033)	1107473	100.000	97.1989
	38 1,2-Dichloropropane	63	13.311	13.311	(1.071)	1207159	100.000	91.2570
$	39 Trifluorotoluene	146	13.321	13.321	(1.071)	1501812	100.000	104.2792
	40 Dibromomethane	93	13.519	13.519	(1.087)	809500	100.000	99.6523
	41 Bromodichloromethane	83	13.726	13.726	(1.104)	1425280	100.000	97.1740
	42 2-Chloroethylvinylether	63	14.189	14.189	(1.141)	478964	100.000	95.9105
	43 Tetramethyl THF	43	14.446	14.446	(1.162)	2192182	100.000	92.5874
	44 cis-1,3-Dichloropropene	75	14.475	14.475	(1.164)	1835550	100.000	94.2472
	45 4-Methyl-2-Pentanone	43	14.672	14.672	(1.180)	1167512	100.000	92.4081
$	46 Toluene-d8	98	14.850	14.850	(1.194)	809193	50.0000	49.4686
	47 Toluene	92	14.949	14.949	(1.202)	2559865	100.000	94.1199
	48 trans-1,3-Dichloropropene	75	15.353	15.353	(1.235)	1641113	100.000	97.1597
	49 1,1,2-Trichloroethane	85	15.629	15.629	(1.257)	571009	100.000	96.2691
	50 Tetrachloroethene	166	15.747	15.747	(0.927)	967367	100.000	104.3337
	51 1,3-Dichloropropane	76	15.905	15.905	(0.937)	1763535	100.000	96.0715
	52 2-Hexanone	43	15.925	15.925	(0.938)	803441	100.000	95.9056
	53 Dibromochloromethane	129	16.191	16.191	(0.954)	1144747	100.000	100.6581
	54 1,2-Dibromoethane	107	16.398	16.398	(1.319)	1173012	100.000	97.1153
*	55 Chlorobenzene-d5	117	16.980	16.980	(1.000)	670369	50.0000	
	56 Chlorobenzene	112	17.020	17.020	(1.002)	2806523	100.000	92.8475
	57 Ethylbenzene	91	17.099	17.099	(1.007)	4394342	100.000	91.2277
	58 1,1,1,2-Tetrachloroethane	131	17.128	17.128	(1.009)	952924	100.000	95.4529
	59 m,p-Xylenes	106	17.256	17.256	(1.016)	3311482	200.000	185.2467
	60 o-Xylene	106	17.779	17.779	(1.047)	1705283	100.000	94.0730
	61 Styrene	104	17.809	17.809	(1.049)	3060306	100.000	97.6966
	62 Bromoform	173	18.104	18.104	(1.066)	817519	100.000	98.9827
	63 Isopropylbenzene	105	18.213	18.213	(0.920)	4049896	100.000	98.3452

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH16.D
Report Date: 20-Mar-2006 09:44

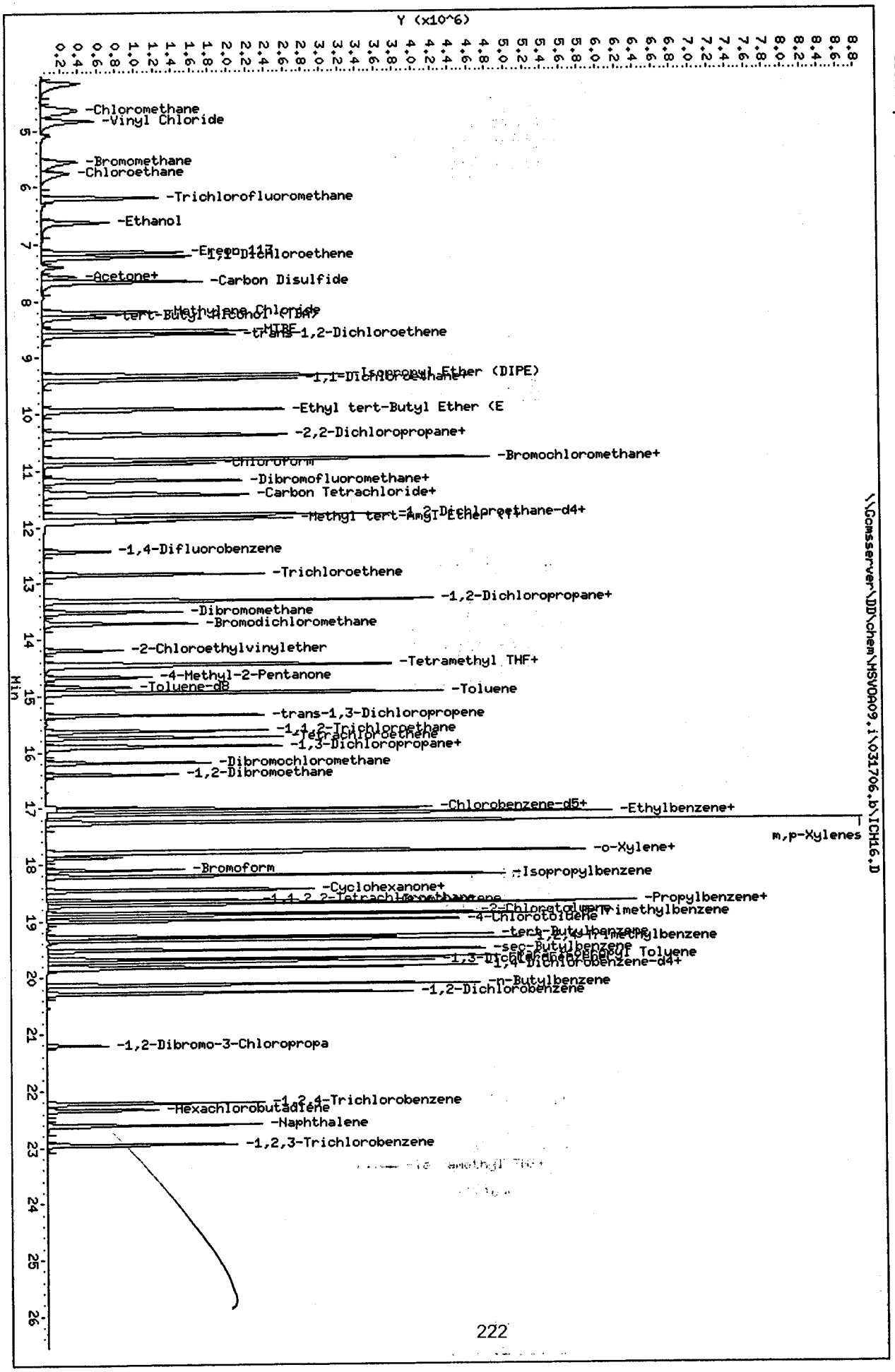
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone	55	18.450	18.450	(0.932)	1535141	1000.00	1257.7684
$ 65 Bromofluorobenzene	95	18.469	18.469	(0.933)	333793	50.0000	50.2362
66 1,1,2,2-Tetrachloroethane	83	18.637	18.637	(0.941)	1370987	100.000	94.9088
67 Bromobenzene	156	18.676	18.676	(0.943)	1152332	100.000	98.4445
68 Propylbenzene	91	18.706	18.706	(0.945)	4996334	100.000	96.0867
69 1,2,3-Trichloropropane	110	18.726	18.726	(0.946)	339399	100.000	97.0881
70 2-Chlorotoluene	91	18.864	18.864	(0.953)	3383889	100.000	94.3892
71 1,3,5-Trimethylbenzene	105	18.903	18.903	(0.955)	3264289	100.000	97.2801
72 4-Chlorotoluene	91	19.002	19.002	(0.960)	3160356	100.000	93.2788
73 tert-Butylbenzene	119	19.278	19.278	(0.974)	2640316	100.000	99.7525
74 1,2,4-Trimethylbenzene	105	19.337	19.337	(0.977)	3367487	100.000	98.8690
75 sec-Butylbenzene	105	19.525	19.525	(0.986)	4121495	100.000	100.4609
76 para-Isopropyl Toluene	119	19.663	19.663	(0.993)	3183774	100.000	102.2002
77 1,3-Dichlorobenzene	146	19.722	19.722	(0.996)	2009378	100.000	98.1666
* 78 1,4-Dichlorobenzene-d4	152	19.801	19.801	(1.000)	290721	50.0000	
79 1,4-Dichlorobenzene	146	19.830	19.830	(1.001)	2077487	100.000	97.7310
80 n-Butylbenzene	91	20.126	20.126	(1.016)	2931602	100.000	105.1367
81 1,2-Dichlorobenzene	146	20.274	20.274	(1.024)	1878819	100.000	97.0658
82 1,2-Dibromo-3-Chloropropane	75	21.201	21.201	(1.071)	192232	100.000	95.2415
83 1,2,4-Trichlorobenzene	180	22.217	22.217	(1.122)	995628	100.000	117.6020
84 Hexachlorobutadiene	225	22.335	22.335	(1.128)	302700	100.000	99.4638
85 Naphthalene	128	22.612	22.612	(1.142)	2518230	100.000	127.3081
86 1,2,3-Trichlorobenzene	180	22.957	22.957	(1.159)	925031	100.000	125.8511

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA09.i\031706.b\ICH16.D
Date : 17-MAR-2006 17:59
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.02/100,S2783,0.02/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: VOC
Column diameter: 0.25



8260/6450X w ICPC

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA09 Run Name: 25PPB IDF : 1.0
Seqnum : 486109916017 File : ich17 Time : 17-MAR-2006 18:33
Cal : 486109916001 Caldate : 17-MAR-2006 Caltype : WATER
Standards: S2953 (10000X), S2743 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	1.4365	1.5313	25.00	26.65	ug/L	7	30	
Chloromethane	2.1612	1.9273	25.00	22.29	ug/L	-11	30	
Vinyl Chloride	1.7031	1.5359	25.00	22.55	ug/L	-10	20	
Bromomethane	0.6595	0.6641	25.00	21.59	ug/L	-14	30	
Chloroethane	0.9451	0.8791	25.00	23.25	ug/L	-7	30	
Trichlorofluoromethane	1.7287	1.6625	25.00	24.04	ug/L	-4	30	

ISTD (ICAL ich14)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	451410	489617	8.46	11.19	11.19	0.00
1,4-Difluorobenzene	765948	821860	7.30	12.43	12.43	0.00
1,4-Dichlorobenzene-d4	274931	292456	6.37	19.81	19.80	-0.01

8260/6850K w ICAL

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA09 Run Name: 25PPB IDF : 1.0
Seqnum : 486109916018 File : ich18 Time : 17-MAR-2006 19:07
Cal : 486109916001 Caldate : 17-MAR-2006 Caltype : WATER
Standards: S2902 (10000X), S2616 (10000X), S2743 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Acetone	0.4709	0.3759	25.00	19.96	ug/L	-20	40	
Freon 113	1.0231	0.9619	25.00	23.50	ug/L	-6	30	
1,1-Dichloroethene	0.9965	1.0014	25.00	25.12	ug/L	0	20	
Methylene Chloride	1.3775	1.3531	25.00	24.56	ug/L	-2	30	
Carbon Disulfide	4.3656	3.3761	25.00	19.33	ug/L	**-23**	30	!v-
MTBE	3.4925	2.9638	25.00	21.22	ug/L	-15	30	
trans-1,2-Dichloroethene	1.2317	1.1733	25.00	23.81	ug/L	-5	30	
Vinyl Acetate	3.0384	2.4509	25.00	20.17	ug/L	-19	40	
1,1-Dichloroethane	2.2257	2.1560	25.00	24.22	ug/L	-3	30	
2-Butanone	0.6669	0.6236	25.00	23.38	ug/L	-6	40	
2,2-Dichloropropane	1.3257	1.2315	25.00	23.22	ug/L	-7	30	
cis-1,2-Dichloroethene	1.3556	1.3418	25.00	24.75	ug/L	-1	30	
Chloroform	2.0806	1.9224	25.00	23.10	ug/L	-8	20	
Bromochloromethane	0.6496	0.6698	25.00	25.78	ug/L	3	30	
1,1,1-Trichloroethane	1.4044	1.3478	25.00	23.99	ug/L	-4	30	
1,1-Dichloropropene	0.8558	0.8547	25.00	24.97	ug/L	0	30	
Carbon Tetrachloride	0.6433	0.6610	25.00	25.69	ug/L	3	30	
1,2-Dichloroethane	0.8153	0.8245	25.00	25.28	ug/L	1	30	
Benzene	2.8066	2.7159	25.00	24.19	ug/L	-3	30	
Trichloroethene	0.6712	0.6768	25.00	25.21	ug/L	1	30	
1,2-Dichloropropane	0.7792	0.7805	25.00	25.04	ug/L	0	20	
Bromodichloromethane	0.8640	0.9085	25.00	26.29	ug/L	5	30	
Dibromomethane	0.4927	0.4967	25.00	25.20	ug/L	1	30	
2-Chloroethylvinylether	0.2942	0.3296	25.00	28.01	ug/L	12	40	
4-Methyl-2-Pentanone	0.7442	0.7396	25.00	24.84	ug/L	-1	40	
Tetramethyl THF	1.3947	1.3757	25.00	24.66	ug/L	-1	30	
cis-1,3-Dichloropropene	1.1472	1.1625	25.00	25.33	ug/L	1	30	
Toluene	1.6021	1.6226	25.00	25.32	ug/L	1	20	
trans-1,3-Dichloropropene	0.9950	0.9623	25.00	24.18	ug/L	-3	30	
1,1,2-Trichloroethane	0.3494	0.3684	25.00	26.36	ug/L	5	30	
2-Hexanone	0.6248	0.5894	25.00	23.58	ug/L	-6	40	
1,3-Dichloropropane	1.3691	1.4388	25.00	26.27	ug/L	5	30	
Tetrachloroethene	0.6915	0.7132	25.00	25.78	ug/L	3	30	
Dibromochloromethane	0.8482	0.9204	25.00	27.13	ug/L	9	30	
1,2-Dibromoethane	0.7115	0.7489	25.00	26.31	ug/L	5	30	
Chlorobenzene	2.2545	2.2596	25.00	25.06	ug/L	0	30	
1,1,1,2-Tetrachloroethane	0.7446	0.7678	25.00	25.78	ug/L	3	30	
Ethylbenzene	3.5927	3.6324	25.00	25.28	ug/L	1	20	
m,p-Xylenes	1.3333	1.3871	50.00	52.02	ug/L	4	30	
o-Xylene	1.3520	1.4131	25.00	26.13	ug/L	5	30	
Styrene	2.3364	2.4388	25.00	26.10	ug/L	4	30	
Bromoform	0.6160	0.6328	25.00	25.68	ug/L	3	30	
Isopropylbenzene	7.0825	6.6825	25.00	23.59	ug/L	-6	30	
1,1,2,2-Tetrachloroethane	2.4844	2.5486	25.00	25.65	ug/L	3	30	
1,2,3-Trichloropropane	0.6147	0.6325	25.00	25.73	ug/L	3	30	
Propylbenzene	8.9430	9.2544	25.00	25.87	ug/L	3	30	
Bromobenzene	2.0132	1.9974	25.00	24.80	ug/L	-1	30	
1,3,5-Trimethylbenzene	5.7711	6.0255	25.00	26.10	ug/L	4	30	
2-Chlorotoluene	6.1658	6.3096	25.00	25.58	ug/L	2	30	

03/20/07

8260/6A5DX W ICMC

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
4-Chlorotoluene	5.8270	5.8092	25.00	24.92	ug/L	0	30	
tert-Butylbenzene	4.5522	4.8890	25.00	26.85	ug/L	7	30	
1,2,4-Trimethylbenzene	5.8579	6.0393	25.00	25.77	ug/L	3	30	
sec-Butylbenzene	7.0559	7.8400	25.00	27.78	ug/L	11	30	
para-Isopropyl Toluene	5.3578	5.6803	25.00	26.51	ug/L	6	30	
1,3-Dichlorobenzene	3.5204	3.6376	25.00	25.83	ug/L	3	30	
1,4-Dichlorobenzene	3.6559	3.7539	25.00	25.67	ug/L	3	30	
n-Butylbenzene	4.9201	5.3852	25.00	27.36	ug/L	9	30	
1,2-Dichlorobenzene	3.3290	3.4779	25.00	26.12	ug/L	4	30	
1,2-Dibromo-3-Chloropropane	0.3471	0.3651	25.00	26.29	ug/L	5	30	
1,2,4-Trichlorobenzene	1.4560	1.7125	25.00	26.05	ug/L	4	30	
Hexachlorobutadiene	0.5167	0.6416	25.00	33.53	ug/L	**34**	30	v+ ***
Naphthalene	3.4020	4.0956	25.00	24.88	ug/L	0	30	
1,2,3-Trichlorobenzene	1.2641	1.5481	25.00	25.65	ug/L	3	30	
tert-Butyl Alcohol (TBA)	0.1024	0.1142	125.0	122.8	ug/L	-2	30	m
Isopropyl Ether (DIPE)	5.0586	4.3053	25.00	21.28	ug/L	-15	30	
Ethyl tert-Butyl Ether (ETBE)	3.7283	3.5049	25.00	23.50	ug/L	-6	30	
Methyl tert-Amyl Ether (TAME)	1.9326	1.7991	25.00	23.27	ug/L	-7	30	
Cyclohexanone	0.2099	0.0313	250.0	42.85	ug/L	**-83**	30	v- ***
Ethanol	0.0194	0.0174	2500	2239	ug/L	-10	30	
Isopropanol	0.0859	0.0731	250.0	212.8	ug/L	-15	30	
Tetrahydrofuran	0.3823	0.3413	250.0	223.2	ug/L	-11	30	

ISTD (ICAL ich14)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	451410	496829	10.06	11.19	11.19	0.00
1,4-Difluorobenzene	765948	824740	7.68	12.43	12.43	0.00
Chlorobenzene-d5	614102	663872	8.10	16.99	16.99	0.00
1,4-Dichlorobenzene-d4	274931	301491	9.66	19.81	19.80	-0.01

!=warning +=high bias -=low bias m=manual integration v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA05 Run Name: 25PPB IDF : 1.0
Seqnum : 446117121003 File : ecm03 Time : 22-MAR-2006 08:52
Cal : 446110313001 Caldate : 17-MAR-2006 Caltype : WATER
Standards: S2783 (20000X), S2844 (20000X), S2410 (40000X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.7566	0.7502	25.00	24.79	ug/L	-1	30	0.0500	m
Chloromethane	0.9272	0.7849	25.00	21.16	ug/L	-15	30	0.1000	m
Vinyl Chloride	0.7321	0.5945	25.00	20.30	ug/L	-19	20	0.0500	m
Bromomethane	0.5108	0.2666	25.00	13.05	ug/L	**-48**	30	0.0500	c- m ***
Chloroethane	0.3645	0.3091	25.00	21.20	ug/L	-15	30	0.0500	
Trichlorofluoromethane	0.9270	0.9139	25.00	24.64	ug/L	-1	30	0.0500	
Acetone	0.3180	0.2960	25.00	23.28	ug/L	-7	40	0.0500	
Freon 113	0.4339	0.4328	25.00	24.94	ug/L	0	30	0.0500	
1,1-Dichloroethene	0.4322	0.3732	25.00	21.59	ug/L	-14	20	0.0500	
Methylene Chloride	0.5839	0.5134	25.00	21.98	ug/L	-12	30	0.0500	
Carbon Disulfide	1.8224	1.4988	25.00	20.56	ug/L	-18	30	0.0500	
MTBE	1.8695	1.7282	25.00	23.11	ug/L	-8	30	0.0500	
trans-1,2-Dichloroethene	0.5355	0.4695	25.00	21.92	ug/L	-12	30	0.0500	
Vinyl Acetate	2.1116	1.9795	25.00	23.43	ug/L	-6	40	0.0500	
1,1-Dichloroethane	1.1796	1.0615	25.00	22.50	ug/L	-10	30	0.1000	
2-Butanone	0.4949	0.4594	25.00	23.20	ug/L	-7	40	0.0500	
2,2-Dichloropropane	0.7743	0.9001	25.00	29.06	ug/L	16	30	0.0500	
cis-1,2-Dichloroethene	0.6608	0.5618	25.00	21.25	ug/L	-15	30	0.0500	
Chloroform	1.1891	1.1021	25.00	23.17	ug/L	-7	20	0.0500	
Bromochloromethane	0.2797	0.2664	25.00	23.82	ug/L	-5	30	0.0500	
1,1,1-Trichloroethane	0.8559	0.8413	25.00	24.57	ug/L	-2	30	0.0500	
1,1-Dichloropropene	0.4138	0.3883	25.00	23.46	ug/L	-6	30	0.0500	
Carbon Tetrachloride	0.3559	0.3725	25.00	26.16	ug/L	5	30	0.0500	
1,2-Dichloroethane	0.5890	0.5993	25.00	25.44	ug/L	2	30	0.0500	
Benzene	1.2748	1.0723	25.00	21.03	ug/L	-16	30	0.0500	
Trichloroethene	0.3416	0.3036	25.00	22.21	ug/L	-11	30	0.0500	
1,2-Dichloropropane	0.3774	0.3331	25.00	22.06	ug/L	-12	20	0.0500	
Bromodichloromethane	0.5189	0.4670	25.00	22.50	ug/L	-10	30	0.0500	
Dibromomethane	0.2837	0.2500	25.00	22.03	ug/L	-12	30	0.0500	
2-Chloroethylvinylether	0.2267	0.1964	25.00	21.66	ug/L	-13	40	0.0500	
4-Methyl-2-Pentanone	0.5862	0.5076	25.00	21.65	ug/L	-13	40	0.0500	
Tetramethyl THF	1.1051	0.9663	25.00	21.86	ug/L	-13	30	0.0500	
cis-1,3-Dichloropropene	0.5998	0.5277	25.00	22.00	ug/L	-12	30	0.0500	
Toluene	0.7475	0.6563	25.00	21.95	ug/L	-12	20	0.0500	
trans-1,3-Dichloropropene	0.5760	0.5334	25.00	23.15	ug/L	-7	30	0.0500	
1,1,2-Trichloroethane	0.1869	0.1580	25.00	21.14	ug/L	-15	30	0.0500	
2-Hexanone	0.4633	0.4328	25.00	23.36	ug/L	-7	40	0.0500	
1,3-Dichloropropane	0.6642	0.5938	25.00	22.35	ug/L	-11	30	0.0500	
Tetrachloroethene	0.2714	0.2489	25.00	22.93	ug/L	-8	30	0.0500	
Dibromochloromethane	0.3951	0.3653	25.00	23.11	ug/L	-8	30	0.0500	
1,2-Dibromoethane	0.3585	0.3335	25.00	23.25	ug/L	-7	30	0.0500	
Chlorobenzene	0.9252	0.8588	25.00	23.21	ug/L	-7	30	0.3000	
1,1,1,2-Tetrachloroethane	0.3149	0.3143	25.00	24.95	ug/L	0	30	0.0500	
Ethylbenzene	1.6244	1.4883	25.00	22.91	ug/L	-8	20	0.0500	
m,p-Xylenes	0.5816	0.5522	50.00	47.48	ug/L	-5	30	0.0500	
o-Xylene	0.5847	0.5477	25.00	23.42	ug/L	-6	30	0.0500	
Styrene	1.0352	0.9874	25.00	23.84	ug/L	-5	30	0.0500	
Bromoform	0.3034	0.2881	25.00	23.74	ug/L	-5	30	0.1000	
Isopropylbenzene	2.6775	2.6303	25.00	24.56	ug/L	-2	30	0.0500	

03/28/06

03/22/06

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.1536	1.0429	25.00	22.60	ug/L	-10	30	0.3000	
1,2,3-Trichloropropane	1.0755	0.9938	25.00	23.10	ug/L	-8	30	0.0500	
Propylbenzene	3.6506	3.2365	25.00	22.16	ug/L	-11	30	0.0500	
Bromobenzene	0.7487	0.6551	25.00	21.88	ug/L	-12	30	0.0500	
1,3,5-Trimethylbenzene	2.3982	2.3378	25.00	24.37	ug/L	-3	30	0.0500	
2-Chlorotoluene	2.6817	2.4727	25.00	23.05	ug/L	-8	30	0.0500	
4-Chlorotoluene	2.5158	2.3918	25.00	23.77	ug/L	-5	30	0.0500	
tert-Butylbenzene	1.7521	1.7040	25.00	24.31	ug/L	-3	30	0.0500	
1,2,4-Trimethylbenzene	2.5522	2.4675	25.00	24.17	ug/L	-3	30	0.0500	
sec-Butylbenzene	2.8209	2.6327	25.00	23.33	ug/L	-7	30	0.0500	
para-Isopropyl Toluene	2.1354	2.1718	25.00	25.43	ug/L	2	30	0.0500	
1,3-Dichlorobenzene	1.3222	1.2360	25.00	23.37	ug/L	-7	30	0.0500	
1,4-Dichlorobenzene	1.3780	1.2908	25.00	23.42	ug/L	-6	30	0.0500	
n-Butylbenzene	2.3687	2.1851	25.00	23.06	ug/L	-8	30	0.0500	
1,2-Dichlorobenzene	1.2918	1.1769	25.00	22.78	ug/L	-9	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.2294	0.2368	25.00	25.81	ug/L	3	30	0.0500	
1,2,4-Trichlorobenzene	0.7933	0.7922	25.00	23.82	ug/L	-5	30	0.0500	
Hexachlorobutadiene	0.2009	0.2488	25.00	31.78	ug/L	**27**	30	0.0500	!c+
Naphthalene	1.8511	1.9188	25.00	23.41	ug/L	-6	30	0.0500	
1,2,3-Trichlorobenzene	0.7698	0.7750	25.00	25.17	ug/L	1	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0733	0.0792	250.0	270.3	ug/L	8	30	0.0050	
Isopropyl Ether (DIPE)	3.1555	2.5816	25.00	20.45	ug/L	-18	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	2.1864	2.0821	25.00	23.81	ug/L	-5	30	0.0500	
Methyl tert-Amyl Ether (TAME)	1.0760	0.9330	25.00	21.68	ug/L	-13	30	0.0500	
Cyclohexanone	0.0942	0.0364	250.0	96.72	ug/L	**-61**	30	0.0050	c- rsd ***
Ethanol	0.0099	0.0092	2500	2334	ug/L	-7	30	5.0E-4	
Isopropanol	0.0562	0.0586	250.0	260.7	ug/L	4	30	0.0050	
Tetrahydrofuran	0.2668	0.2384	250.0	223.4	ug/L	-11	30	0.0050	
Dibromofluoromethane	0.6797	0.6952	50.00	51.14	ug/L	2	30	0.0500	
1,2-Dichloroethane-d4	0.5267	0.5762	50.00	54.70	ug/L	9	30	0.0500	
Trifluorotoluene	0.3183	0.3223	25.00	25.32	ug/L	1	30	0.0500	
Toluene-d8	1.1388	1.0441	50.00	45.84	ug/L	-8	30	0.0500	
Bromofluorobenzene	1.3230	1.3176	50.00	49.79	ug/L	0	30	0.0500	

ISTD (ICAL ech10)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	533288	521677	-2.18	10.24	10.23	-0.01
1,4-Difluorobenzene	942862	934947	-0.84	11.37	11.37	0.00
Chlorobenzene-d5	845304	801132	-5.23	15.40	15.40	0.00
1,4-Dichlorobenzene-d4	434480	392582	-9.64	18.12	18.12	0.00

!=warning +=high bias -=low bias c=CCV m=manual integration rsd=ICAL %RSD failure

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA06 Run Name: 25PPB IDF : 1.0
Seqnum : 456117120003 File : fcm03 Time : 22-MAR-2006 08:50
Cal : 456098395001 Caldate : 09-MAR-2006 Caltype : WATER
Standards: S2844 (20000X), S2783 (20000X), S2410 (40000X), S2740 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.8758	0.8727	25.00	24.91	ug/L	0	30	0.0500	
Chloromethane	0.8831	0.6992	25.00	19.79	ug/L	-21	30	0.1000	!c-
Vinyl Chloride	0.7006	0.5881	25.00	20.99	ug/L	-16	20	0.0500	
Bromomethane	0.4629	0.3805	25.00	20.55	ug/L	-18	30	0.0500	
Chloroethane	0.3861	0.3211	25.00	20.79	ug/L	-17	30	0.0500	
Trichlorofluoromethane	0.9702	0.9249	25.00	23.83	ug/L	-5	30	0.0500	m
Acetone	0.3588	0.3719	25.00	25.91	ug/L	4	40	0.0500	
Freon 113	0.4860	0.5099	25.00	24.29	ug/L	-3	30	0.0500	
1,1-Dichloroethene	0.5785	0.5140	25.00	22.21	ug/L	-11	20	0.0500	
Methylene Chloride	0.8432	0.7803	25.00	23.14	ug/L	-7	30	0.0500	
Carbon Disulfide	2.3558	2.2001	25.00	23.35	ug/L	-7	30	0.0500	
MTBE	2.3661	2.2518	25.00	23.79	ug/L	-5	30	0.0500	
trans-1,2-Dichloroethene	0.7174	0.6581	25.00	22.94	ug/L	-8	30	0.0500	
Vinyl Acetate	2.1122	2.1371	25.00	25.29	ug/L	1	40	0.0500	
1,1-Dichloroethane	1.3283	1.2336	25.00	23.22	ug/L	-7	30	0.1000	
2-Butanone	0.5094	0.5188	25.00	25.46	ug/L	2	40	0.0500	
2,2-Dichloropropane	0.8606	0.9012	25.00	26.18	ug/L	5	30	0.0500	
cis-1,2-Dichloroethene	0.8444	0.7491	25.00	22.18	ug/L	-11	30	0.0500	
Chloroform	1.3107	1.2360	25.00	23.58	ug/L	-6	20	0.0500	
Bromochloromethane	0.3941	0.3947	25.00	25.04	ug/L	0	30	0.0500	
1,1,1-Trichloroethane	0.8608	0.8117	25.00	23.58	ug/L	-6	30	0.0500	
1,1-Dichloropropene	0.4704	0.4550	25.00	24.18	ug/L	-3	30	0.0500	
Carbon Tetrachloride	0.3261	0.3402	25.00	26.08	ug/L	4	30	0.0500	
1,2-Dichloroethane	0.5232	0.5138	25.00	24.55	ug/L	-2	30	0.0500	
Benzene	1.5622	1.4213	25.00	22.75	ug/L	-9	30	0.0500	
Trichloroethene	0.3692	0.3376	25.00	22.86	ug/L	-9	30	0.0500	
1,2-Dichloropropane	0.4513	0.4184	25.00	23.18	ug/L	-7	20	0.0500	
Bromodichloromethane	0.5305	0.5193	25.00	24.47	ug/L	-2	30	0.0500	
Dibromomethane	0.3124	0.3046	25.00	24.38	ug/L	-2	30	0.0500	
2-Chloroethylvinylether	0.0301	0.0122	25.00	10.15	ug/L	-59	40	0.0500	c- crf irf rsd ***
4-Methyl-2-Pentanone	0.5545	0.5415	25.00	24.41	ug/L	-2	40	0.0500	
Tetramethyl THF	0.9678	0.9158	25.00	23.66	ug/L	-5	30	0.0500	
cis-1,3-Dichloropropene	0.6778	0.6683	25.00	24.65	ug/L	-1	30	0.0500	
Toluene	0.8800	0.8226	25.00	23.37	ug/L	-7	20	0.0500	
trans-1,3-Dichloropropene	0.6256	0.6285	25.00	25.12	ug/L	0	30	0.0500	
1,1,2-Trichloroethane	0.2283	0.2183	25.00	23.90	ug/L	-4	30	0.0500	
2-Hexanone	0.4698	0.4582	25.00	24.39	ug/L	-2	40	0.0500	
1,3-Dichloropropane	0.8366	0.7924	25.00	23.68	ug/L	-5	30	0.0500	
Tetrachloroethene	0.3445	0.3418	25.00	24.80	ug/L	-1	30	0.0500	
Dibromochloromethane	0.4736	0.4860	25.00	25.66	ug/L	3	30	0.0500	
1,2-Dibromoethane	0.4288	0.4166	25.00	24.29	ug/L	-3	30	0.0500	
Chlorobenzene	1.0998	1.0425	25.00	23.70	ug/L	-5	30	0.3000	
1,1,1,2-Tetrachloroethane	0.4076	0.3864	25.00	23.70	ug/L	-5	30	0.0500	
Ethylbenzene	1.8069	1.7487	25.00	24.19	ug/L	-3	20	0.0500	
m,p-Xylenes	0.6428	0.5997	50.00	46.65	ug/L	-7	30	0.0500	
o-Xylene	0.6565	0.6146	25.00	23.41	ug/L	-6	30	0.0500	
Styrene	1.1624	1.1136	25.00	23.95	ug/L	-4	30	0.0500	
Bromoform	0.3842	0.3774	25.00	24.56	ug/L	-2	30	0.1000	
Isopropylbenzene	3.0248	2.8501	25.00	23.56	ug/L	-6	30	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.4808	1.4657	25.00	24.75	ug/L	-1	30	0.3000	
1,2,3-Trichloropropane	1.2054	1.1496	25.00	23.84	ug/L	-5	30	0.0500	
Propylbenzene	3.7416	3.4772	25.00	23.23	ug/L	-7	30	0.0500	
Bromobenzene	1.0284	0.9755	25.00	23.71	ug/L	-5	30	0.0500	
1,3,5-Trimethylbenzene	2.1948	2.0801	25.00	23.69	ug/L	-5	30	0.0500	
2-Chlorotoluene	2.8627	2.6461	25.00	23.11	ug/L	-8	30	0.0500	
4-Chlorotoluene	2.6572	2.4453	25.00	23.01	ug/L	-8	30	0.0500	
tert-Butylbenzene	1.7779	1.6640	25.00	23.40	ug/L	-6	30	0.0500	
1,2,4-Trimethylbenzene	2.0875	2.0044	25.00	24.00	ug/L	-4	30	0.0500	
sec-Butylbenzene	2.4829	2.4043	25.00	24.21	ug/L	-3	30	0.0500	
para-Isopropyl Toluene	1.7295	1.7030	25.00	24.62	ug/L	-2	30	0.0500	
1,3-Dichlorobenzene	1.5895	1.5282	25.00	24.04	ug/L	-4	30	0.0500	
1,4-Dichlorobenzene	1.6202	1.5655	25.00	24.16	ug/L	-3	30	0.0500	
n-Butylbenzene	1.3453	1.4081	25.00	26.17	ug/L	5	30	0.0500	m
1,2-Dichlorobenzene	1.5850	1.5529	25.00	24.49	ug/L	-2	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.2746	0.2420	25.00	23.06	ug/L	-8	30	0.0500	
1,2,4-Trichlorobenzene	0.3669	0.4382	25.00	26.39	ug/L	6	30	0.0500	
Hexachlorobutadiene	0.1698	0.2188	25.00	28.00	ug/L	12	30	0.0500	
Naphthalene	1.3059	1.5570	25.00	27.13	ug/L	9	30	0.0500	
1,2,3-Trichlorobenzene	0.3141	0.4223	25.00	26.31	ug/L	5	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0759	0.0770	250.0	253.9	ug/L	2	30	0.0050	
Isopropyl Ether (DIPE)	3.2114	2.9089	25.00	22.65	ug/L	-9	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	2.3697	2.1842	25.00	23.04	ug/L	-8	30	0.0500	
Methyl tert-Amyl Ether (TAME)	1.2404	1.1756	25.00	23.69	ug/L	-5	30	0.0500	
Ethanol	0.0103	0.0107	2500	2595	ug/L	4	30	5.0E-4	
Isopropanol	0.0549	0.0569	250.0	258.9	ug/L	4	30	0.0050	
Tetrahydrofuran	0.2787	0.2614	250.0	234.5	ug/L	-6	30	0.0050	
Dibromofluoromethane	0.6665	0.6656	50.00	49.93	ug/L	0	30	0.0500	
1,2-Dichloroethane-d4	0.4034	0.4195	50.00	51.99	ug/L	4	30	0.0500	
Trifluorotoluene	0.4068	0.4149	25.00	25.50	ug/L	2	30	0.0500	
Toluene-d8	1.0888	1.0789	50.00	49.54	ug/L	-1	30	0.0500	
Bromofluorobenzene	1.1972	1.1562	50.00	48.29	ug/L	-3	30	0.0500	

ISTD (ICAL fc921)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	957753	896569	-6.39	12.35	12.31	-0.04
1,4-Difluorobenzene	1704082	1612296	-5.39	13.66	13.62	-0.04
Chlorobenzene-d5	1422227	1345668	-5.38	18.32	18.29	-0.03
1,4-Dichlorobenzene-d4	701343	654016	-6.75	21.16	21.13	-0.03

!=warning -=low bias c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA09 Run Name: 25PPB IDF : 1.0
Seqnum : 486117105003 File : icm03 Time : 22-MAR-2006 08:35
Cal : 486109916001 Caldate : 17-MAR-2006 Caltype : WATER
Standards: S2783 (20000X), S2844 (20000X), S2410 (40000X), S2743 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	1.4365	1.5043	25.00	26.18	ug/L	5	30	0.0500	
Chloromethane	2.1612	1.9581	25.00	22.65	ug/L	-9	30	0.1000	
Vinyl Chloride	1.7031	1.6029	25.00	23.53	ug/L	-6	20	0.0500	
Bromomethane	0.6595	0.3377	25.00	11.56	ug/L	**-54**	30	0.0500	c- ***
Chloroethane	0.9451	0.9104	25.00	24.08	ug/L	-4	30	0.0500	
Trichlorofluoromethane	1.7287	1.7056	25.00	24.67	ug/L	-1	30	0.0500	
Acetone	0.4709	0.5025	25.00	26.68	ug/L	7	40	0.0500	
Freon 113	1.0231	0.9286	25.00	22.69	ug/L	-9	30	0.0500	
1,1-Dichloroethene	0.9965	0.9134	25.00	22.92	ug/L	-8	20	0.0500	
Methylene Chloride	1.3775	1.3339	25.00	24.21	ug/L	-3	30	0.0500	
Carbon Disulfide	4.3656	3.9583	25.00	22.67	ug/L	-9	30	0.0500	
MTBE	3.4925	3.5099	25.00	25.12	ug/L	0	30	0.0500	
trans-1,2-Dichloroethene	1.2317	1.1678	25.00	23.70	ug/L	-5	30	0.0500	
Vinyl Acetate	3.0384	3.2896	25.00	27.07	ug/L	8	40	0.0500	
1,1-Dichloroethane	2.2257	2.1649	25.00	24.32	ug/L	-3	30	0.1000	
2-Butanone	0.6669	0.6960	25.00	26.09	ug/L	4	40	0.0500	
2,2-Dichloropropane	1.3257	1.4077	25.00	26.55	ug/L	6	30	0.0500	
cis-1,2-Dichloroethene	1.3556	1.3040	25.00	24.05	ug/L	-4	30	0.0500	
Chloroform	2.0806	1.9803	25.00	23.79	ug/L	-5	20	0.0500	
Bromochloromethane	0.6496	0.6499	25.00	25.01	ug/L	0	30	0.0500	
1,1,1-Trichloroethane	1.4044	1.2859	25.00	22.89	ug/L	-8	30	0.0500	
1,1-Dichloropropene	0.8558	0.7875	25.00	23.00	ug/L	-8	30	0.0500	
Carbon Tetrachloride	0.6433	0.5918	25.00	23.00	ug/L	-8	30	0.0500	
1,2-Dichloroethane	0.8153	0.8312	25.00	25.49	ug/L	2	30	0.0500	
Benzene	2.8066	2.6136	25.00	23.28	ug/L	-7	30	0.0500	
Trichloroethene	0.6712	0.6154	25.00	22.92	ug/L	-8	30	0.0500	
1,2-Dichloropropane	0.7792	0.7734	25.00	24.81	ug/L	-1	20	0.0500	
Bromodichloromethane	0.8640	0.8714	25.00	25.21	ug/L	1	30	0.0500	
Dibromomethane	0.4927	0.4978	25.00	25.26	ug/L	1	30	0.0500	
2-Chloroethylvinylether	0.2942	0.3446	25.00	29.29	ug/L	17	40	0.0500	
4-Methyl-2-Pentanone	0.7442	0.7726	25.00	25.95	ug/L	4	40	0.0500	
Tetramethyl THF	1.3947	1.4534	25.00	26.05	ug/L	4	30	0.0500	
cis-1,3-Dichloropropene	1.1472	1.1693	25.00	25.48	ug/L	2	30	0.0500	
Toluene	1.6021	1.5014	25.00	23.43	ug/L	-6	20	0.0500	
trans-1,3-Dichloropropene	0.9950	1.0213	25.00	25.66	ug/L	3	30	0.0500	
1,1,2-Trichloroethane	0.3494	0.3461	25.00	24.77	ug/L	-1	30	0.0500	
2-Hexanone	0.6248	0.6590	25.00	26.37	ug/L	5	40	0.0500	
1,3-Dichloropropane	1.3691	1.4198	25.00	25.92	ug/L	4	30	0.0500	
Tetrachloroethene	0.6915	0.6228	25.00	22.52	ug/L	-10	30	0.0500	
Dibromochloromethane	0.8482	0.8636	25.00	25.45	ug/L	2	30	0.0500	
1,2-Dibromoethane	0.7115	0.7148	25.00	25.11	ug/L	0	30	0.0500	
Chlorobenzene	2.2545	2.1685	25.00	24.05	ug/L	-4	30	0.3000	
1,1,1,2-Tetrachloroethane	0.7446	0.7334	25.00	24.62	ug/L	-2	30	0.0500	
Ethylbenzene	3.5927	3.4157	25.00	23.77	ug/L	-5	20	0.0500	
m,p-Xylenes	1.3333	1.2723	50.00	47.71	ug/L	-5	30	0.0500	
o-Xylene	1.3520	1.2916	25.00	23.88	ug/L	-4	30	0.0500	
Styrene	2.3364	2.3552	25.00	25.20	ug/L	1	30	0.0500	
Bromoform	0.6160	0.5999	25.00	24.35	ug/L	-3	30	0.1000	
Isopropylbenzene	7.0825	6.3134	25.00	22.29	ug/L	-11	30	0.0500	

03/23/06

3/22/06

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	2.4844	2.5332	25.00	25.49	ug/L	2	30	0.3000	
1,2,3-Trichloropropane	0.6147	0.6252	25.00	25.43	ug/L	2	30	0.0500	
Propylbenzene	8.9430	8.1268	25.00	22.72	ug/L	-9	30	0.0500	
Bromobenzene	2.0132	1.9349	25.00	24.03	ug/L	-4	30	0.0500	
1,3,5-Trimethylbenzene	5.7711	5.4375	25.00	23.55	ug/L	-6	30	0.0500	
2-Chlorotoluene	6.1658	5.9326	25.00	24.05	ug/L	-4	30	0.0500	
4-Chlorotoluene	5.8270	5.5556	25.00	23.84	ug/L	-5	30	0.0500	
tert-Butylbenzene	4.5522	4.0344	25.00	22.16	ug/L	-11	30	0.0500	
1,2,4-Trimethylbenzene	5.8579	5.6443	25.00	24.09	ug/L	-4	30	0.0500	
sec-Butylbenzene	7.0559	6.2987	25.00	22.32	ug/L	-11	30	0.0500	
para-Isopropyl Toluene	5.3578	4.9771	25.00	23.22	ug/L	-7	30	0.0500	
1,3-Dichlorobenzene	3.5204	3.4069	25.00	24.19	ug/L	-3	30	0.0500	
1,4-Dichlorobenzene	3.6559	3.4873	25.00	23.85	ug/L	-5	30	0.0500	
n-Butylbenzene	4.9201	4.7289	25.00	24.03	ug/L	-4	30	0.0500	
1,2-Dichlorobenzene	3.3290	3.2748	25.00	24.59	ug/L	-2	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.3471	0.3655	25.00	26.32	ug/L	5	30	0.0500	
1,2,4-Trichlorobenzene	1.4560	1.6788	25.00	25.54	ug/L	2	30	0.0500	
Hexachlorobutadiene	0.5167	0.4592	25.00	19.95	ug/L	-20	30	0.0500	
Naphthalene	3.4020	4.3108	25.00	26.15	ug/L	5	30	0.0500	
1,2,3-Trichlorobenzene	1.2641	1.5277	25.00	25.32	ug/L	1	30	0.0500	
tert-Butyl Alcohol (TBA)	0.1024	0.1199	250.0	254.1	ug/L	2	30	0.0050	m
Isopropyl Ether (DIPE)	5.0586	5.0862	25.00	25.14	ug/L	1	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	3.7283	3.7353	25.00	25.05	ug/L	0	30	0.0500	
Methyl tert-Amyl Ether (TAME)	1.9326	1.9588	25.00	25.34	ug/L	1	30	0.0500	
Cyclohexanone	0.2099	0.2550	250.0	261.3	ug/L	5	30	0.0050	
Ethanol	0.0194	0.0198	2500	2560	ug/L	2	30	5.0E-4	
Isopropanol	0.0859	0.0845	250.0	246.0	ug/L	-2	30	0.0050	
Tetrahydrofuran	0.3823	0.3744	250.0	244.8	ug/L	-2	30	0.0050	
Dibromofluoromethane	0.5737	0.5916	50.00	51.56	ug/L	3	30	0.0500	
1,2-Dichloroethane-d4	0.3071	0.3288	50.00	53.53	ug/L	7	30	0.0500	
Trifluorotoluene	0.8484	0.7482	25.00	22.05	ug/L	-12	30	0.0500	
Toluene-d8	0.9636	0.9507	50.00	49.33	ug/L	-1	30	0.0500	
Bromofluorobenzene	1.1428	1.1466	50.00	50.17	ug/L	0	30	0.0500	

ISTD (ICAL ich14)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	451410	462599	2.48	11.19	11.17	-0.02
1,4-Difluorobenzene	765948	790607	3.22	12.43	12.41	-0.02
Chlorobenzene-d5	614102	615433	0.22	16.99	16.97	-0.02
1,4-Dichlorobenzene-d4	274931	276854	0.70	19.81	19.79	-0.02

-=low bias c=CCV m=manual integration

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 22-MAR-2006
Sequence: 446117121 (ecm)
Instrument ID: MSVOA05

ICAL Filename: ech10
Date Analyzed: 17-MAR-2006
Time Analyzed: 20:20

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	533288	10.24	942862	11.37	845304	15.40	434480	18.12
LOWER LIMIT	266644	9.74	471431	10.87	422652	14.90	217240	17.62
UPPER LIMIT	1066576	10.74	1885724	11.87	1690608	15.90	868960	18.62

TYPE	SAMPLE	#								
CCV	25PPB	003	521677	10.23	934947	11.37	801132	15.40	392582	18.12
BS	QC332468	004	527980	10.23	957279	11.37	825657	15.40	391424	18.12
BSD	QC332469	007	530954	10.24	945234	11.37	830815	15.40	397501	18.12
BLANK	QC332470	010	535853	10.24	954260	11.36	784655	15.41	365511	18.12
SAMPLE	185622-020	011	524856	10.24	946948	11.36	815018	15.40	378940	18.12
SAMPLE	185622-021	012	541129	10.23	946540	11.37	823780	15.40	372967	18.12
SAMPLE	185622-022	013	533328	10.24	940755	11.37	819046	15.40	371098	18.12
SAMPLE	185622-023	014	530877	10.23	932775	11.36	830685	15.41	369529	18.12
SAMPLE	185622-024	015	531433	10.24	979033	11.36	814301	15.40	372583	18.12
SAMPLE	185622-025	016	529265	10.23	934268	11.36	822318	15.40	365533	18.11
SAMPLE	185622-026	017	525004	10.23	956007	11.36	828565	15.40	391134	18.12
SAMPLE	185622-027	018	641840	10.24	1121213	11.36	985463	15.40	463439	18.12
SAMPLE	185622-033	019	697953	10.24	1228170	11.37	1062117	15.40	484795	18.12
SAMPLE	185622-034	020	653353	10.24	1165827	11.36	1018489	15.40	441681	18.11
SAMPLE	185622-035	021	574644	10.24	1047498	11.36	875004	15.40	398995	18.12
SAMPLE	185622-019	022	549867	10.23	981971	11.37	829986	15.40	377691	18.12
SAMPLE	185622-032	023	549121	10.23	967870	11.36	840763	15.41	380276	18.12
SAMPLE	185489-008	024	554928	10.23	960375	11.36	833713	15.41	384412	18.12

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 22-MAR-2006
Sequence: 456117120 (fcm)
Instrument ID: MSVOA06

ICAL Filename: fc921
Date Analyzed: 09-MAR-2006
Time Analyzed: 19:47

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	957753	12.35	1704082	13.66	1422227	18.32	701343	21.16
LOWER LIMIT	478877	11.85	852041	13.16	711114	17.82	350672	20.66
UPPER LIMIT	1915506	12.85	3408164	14.16	2844454	18.82	1402686	21.66

TYPE	SAMPLE	#								
CCV	25PPB	003	896569	12.31	1612296	13.62	1345668	18.29	654016	21.13
BS	QC332465	004	903185	12.31	1586611	13.63	1325659	18.29	649028	21.14
BSD	QC332466	005	900733	12.30	1608928	13.62	1327074	18.29	650997	21.14
BLANK	QC332467	007	897169	12.31	1615758	13.62	1318390	18.29	581229	21.14
SAMPLE	185574-038	008	863194	12.30	1535756	13.62	1305364	18.29	592710	21.13
SAMPLE	185626-003	009	865442	12.30	1569438	13.62	1278837	18.29	568659	21.14
SAMPLE	185638-008	010	841579	12.30	1519962	13.62	1252975	18.29	545525	21.14
SAMPLE	185638-005	011	833212	12.30	1529184	13.62	1279081	18.29	550938	21.13
SAMPLE	185638-007	012	839626	12.31	1533467	13.63	1254734	18.30	538277	21.13
SAMPLE	185626-001	013	845940	12.30	1496900	13.62	1253387	18.29	544018	21.14
SAMPLE	185626-002	014	860560	12.32	1560105	13.63	1268418	18.30	524919	21.14
SAMPLE	185622-001	015	811382	12.31	1498629	13.63	1207506	18.30	522757	21.14
SAMPLE	185622-002	016	800741	12.31	1492866	13.63	1241760	18.30	539216	21.13
SAMPLE	185622-003	017	806910	12.31	1486554	13.62	1255718	18.29	534826	21.14
SAMPLE	185622-004	018	801447	12.31	1468687	13.63	1206045	18.29	537759	21.14
SAMPLE	185622-005	019	801254	12.31	1470228	13.63	1218605	18.30	525056	21.14
SAMPLE	185622-006	020	793567	12.31	1459873	13.62	1202195	18.29	523382	21.14
SAMPLE	185622-007	021	795700	12.30	1405937	13.62	1211122	18.29	511249	21.14
SAMPLE	185625-001	022	785274	12.31	1441252	13.62	1193595	18.30	505475	21.14

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 22-MAR-2006
Sequence: 486117105 (icm)
Instrument ID: MSVOA09

ICAL Filename: ich14
Date Analyzed: 17-MAR-2006
Time Analyzed: 16:48

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	451410	11.19	765948	12.43	614102	16.99	274931	19.81
LOWER LIMIT	225705	10.69	382974	11.93	307051	16.49	137466	19.31
UPPER LIMIT	902820	11.69	1531896	12.93	1228204	17.49	549862	20.31

TYPE	SAMPLE	#								
CCV	25PPB	003	462599	11.17	790607	12.41	615433	16.97	276854	19.79
BS	QC332462	004	489519	11.17	831554	12.41	646646	16.97	289241	19.79
BSD	QC332463	005	470970	11.16	807410	12.40	627092	16.97	285532	19.79
BLANK	QC332464	007	471656	11.16	806802	12.40	629886	16.97	269869	19.79
SAMPLE	185622-009	008	456023	11.17	797195	12.41	620152	16.97	258711	19.79
SAMPLE	185622-010	009	438783	11.16	773005	12.40	595253	16.96	252201	19.79
SAMPLE	185622-011	010	432856	11.16	755036	12.41	578023	16.97	248357	19.79
SAMPLE	185622-012	011	428453	11.17	751421	12.41	580093	16.97	250271	19.79
SAMPLE	185622-015	012	422530	11.16	746248	12.41	577948	16.97	247706	19.79
SAMPLE	185636-009	013	433665	11.16	750714	12.40	581685	16.97	246843	19.79
SAMPLE	185567-004	014	429679	11.17	752836	12.40	583452	16.97	250047	19.79
SAMPLE	185636-004	015	427316	11.16	734688	12.41	587947	16.96	262236	19.79
SAMPLE	185636-005	016	463466	11.16	789687	12.40	615373	16.97	276342	19.79
SAMPLE	185636-006	017	491684	11.17	820272	12.41	643583	16.97	286885	19.79
SAMPLE	185636-007	018	484275	11.17	808662	12.41	627200	16.96	290126	19.79
SAMPLE	185636-008	019	478813	11.17	785073	12.41	612531	16.97	276981	19.79
SAMPLE	185693-001	020	495763	11.17	809657	12.41	639897	16.97	281812	19.79
SAMPLE	185693-002	021	456047	11.16	753082	12.40	589040	16.97	258719	19.79
SAMPLE	185693-003	022	487427	11.16	825523	12.41	634774	16.96	271907	19.78

8260/6A 5DX W ICAL

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

equence: 456098395 Instrument: MSVOA06 HP GCMS VOA 06 Begun: 09-MAR-2006

nalytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
01	fc901	X	IB			09-MAR-2006 07:55	1.0						1	
02	fc902	TUN	BFB			09-MAR-2006 08:30	1.0						2	
03	fc903	CCV	25PPB			09-MAR-2006 08:47	1.0			5000			3 4 1	
04	fc904	BS	QC330702	111122	Soil	09-MAR-2006 09:36	1.0			5000			5 6 7 1	
05	fc905	BSD	QC330703	111122	Soil	09-MAR-2006 10:10	1.0			5000			5 6 7 1	
06	fc906	X	IB			09-MAR-2006 10:45	1.0						1	
07	fc907	BLANK	QC330704	111122	Soil	09-MAR-2006 11:28	1.0		1	5000			1	
08	fc908	MSS	185333-015	111122	Soil	09-MAR-2006 12:03	5.0	1	1	5000	A		1	1:ACE=135.352
09	fc909	MS	QC330769	111122	Soil	09-MAR-2006 12:38	5.0		1	5000			5 6 7 1	1:ACE=169.810
10	fc910	MSD	QC330770	111122	Soil	09-MAR-2006 13:13	5.0			5000			5 6 7 1	1:ACE=167.878
11	fc911	TUN	BFB			09-MAR-2006 13:59	1.0						2	
12	fc912	X	IB			09-MAR-2006 14:32	1.0						1	
13	fc913	X	IB			09-MAR-2006 15:06	1.0						1	
14	fc914	X	CALIB IB			09-MAR-2006 15:42	1.0						1	
15	fc915	ICAL	0.25/0.5PPB			09-MAR-2006 16:16	1.0						4 3 8 1	
16	fc916	ICAL	0.5/1PPB			09-MAR-2006 16:52	1.0						4 3 8 1	
17	fc917	ICAL	2PPB			09-MAR-2006 17:27	1.0						4 3 8 1	
18	fc918	ICAL	5PPB			09-MAR-2006 18:02	1.0						4 3 8 1	
19	fc919	ICAL	10PPB			09-MAR-2006 18:37	1.0						4 3 8 1	
20	fc920	ICAL	20PPB			09-MAR-2006 19:12	1.0						4 3 8 1	
21	fc921	ICAL	50PPB			09-MAR-2006 19:47	1.0						4 3 8 1	
22	fc922	ICAL	75PPB			09-MAR-2006 20:21	1.0						4 3 8 1	
23	fc923	ICAL	100PPB			09-MAR-2006 20:56	1.0						4 3 8 1	
24	fc924	ICV	25PPB			09-MAR-2006 21:30	1.0			5000			6 1	
25	fc925	ICV	25PPB			09-MAR-2006 22:05	1.0			5000			5 7 1	
26	fc926	X	IB			09-MAR-2006 22:39	1.0						1	
27	fc927	X	IB			09-MAR-2006 23:14	1.0						1	
28	fc928	X	IB			09-MAR-2006 23:48	1.0						1	

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* ICAL - 2CCLEVE fails %KSD

+ ICV - OK, USACE - sec-butbenz↑, n-butbenz↑, Hxdlbenz↑

Stds used: 1=S2740 2=S2327 3=S2844 4=S2783 5=S2829 6=S2807 7=S2616 8=S2410

Analyst: [illegible] Date: 3/10/06

03/13/06

8260/6ADA w ICAL

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 446110313 Instrument: MSVOA05 HP GCMS VOA 05 Begun: 17-MAR-2006

Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	ech01	TUN	BFB			17-MAR-2006 14:33	1.0					1	
002	ech02	X	IB			17-MAR-2006 16:06	1.0					2	
003	ech03	X	CALIB IB			17-MAR-2006 16:38	1.0					2	
004	ech04	ICAL	0.25/0.5PPB			17-MAR-2006 17:10	1.0					3 4 5 2	
005	ech05	ICAL	0.5/1PPB			17-MAR-2006 17:41	1.0					3 4 5 2	
006	ech06	ICAL	2PPB			17-MAR-2006 18:13	1.0					3 4 5 2	
007	ech07	ICAL	5PPB			17-MAR-2006 18:45	1.0					3 4 5 2	
008	ech08	ICAL	10PPB			17-MAR-2006 19:16	1.0					3 4 5 2	
009	ech09	ICAL	20PPB			17-MAR-2006 19:48	1.0					3 4 5 2	
010	ech10	ICAL	50PPB			17-MAR-2006 20:20	1.0					3 4 5 2	
011	ech11	ICAL	75PPB			17-MAR-2006 20:52	1.0					3 4 5 2	
012	ech12	ICAL	100PPB			17-MAR-2006 21:23	1.0					3 4 5 2	
013	ech13	ICV	25PPB			17-MAR-2006 21:55	1.0		5000			6 2 not used	
014	ech14	ICV	25PPB			17-MAR-2006 22:27	1.0	2	5000			7 8 2	
015	ech15	X	IB			17-MAR-2006 22:58	1.0					2	236
016	ech16	X	IB			17-MAR-2006 23:30	1.0					2	
017	ech17	X	IB			18-MAR-2006 00:02	1.0					2	

* ICAL - Cyclohex fails % RSD
  - high pt dropped for NAPH
  - 2 high pts dropped for Hexchlbenz
* ICV - cyclohex ↓
  NAPH - BENZENE ↑, Hexchlbenz ↑, Etoh ↓

Stds used: 1=S2327 2=S2707 3=S2783 4=S2844 5=S2410 6=S2953 7=S2902 8=S2616

Analyst: RB Date: 3/20/06

03/20/06

8260/6A5DX w 1 OAL

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 486109916 Instrument: MSVOA09 HP GCMS VOA 09 Begun: 17-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	ich01	X	IB			17-MAR-2006 07:56	1.0					1	
002	ich02	TUN	BFB			17-MAR-2006 09:20	1.0					2	
003	ich03	X	LOW PT			17-MAR-2006 09:37	1.0					1	
004	ich04	X	LOW PT			17-MAR-2006 10:11	1.0					1	
005	ich05	X	IB			17-MAR-2006 11:17	1.0					1	
006	ich06	TUN	BFB			17-MAR-2006 12:08	1.0					2	
007	ich07	X	CALIB IB			17-MAR-2006 12:44	1.0					1	
008	ich08	ICAL	0.25/0.5PPB			17-MAR-2006 13:19	1.0					3 4 5 1	
009	ich09	ICAL	0.5/1PPB			17-MAR-2006 13:53	1.0					3 4 5 1	
010	ich10	ICAL	2PPB			17-MAR-2006 14:29	1.0					3 4 5 1	
011	ich11	ICAL	5PPB			17-MAR-2006 15:04	1.0					3 4 5 1	
012	ich12	ICAL	10PPB			17-MAR-2006 15:39	1.0					3 4 5 1	
013	ich13	ICAL	20PPB			17-MAR-2006 16:14	1.0					3 4 5 1	
014	ich14	ICAL	50PPB			17-MAR-2006 16:48	1.0					3 4 5 1	
015	ich15	ICAL	75PPB			17-MAR-2006 17:25	1.0					3 4 5 1	237
016	ich16	ICAL	100PPB			17-MAR-2006 17:59	1.0					3 4 5 1	
017	ich17	ICV	25PPB			17-MAR-2006 18:33	1.0		5000			6 1	
018	ich18	ICV	25PPB			17-MAR-2006 19:07	1.0	2	5000			7 8 1	
019	ich19	X	IB			17-MAR-2006 19:42	1.0					1	
020	ich20	X	IB			17-MAR-2006 20:17	1.0					1	
021	ich21	X	IB			17-MAR-2006 20:52	1.0					1	

* ICAL - OK
- high pt dropped for TBA
- 2 high pts dropped for Hexclbzn

* ICV - Hexclbzn ↑, Cisclbzn ↓
isAct - CS2 ↓

(k) no secondary ion for TBA in low pt

03/20/06

Stds used: 1=S2743 2=S2327 3=S2844 4=S2783 5=S2410 6=S2953 7=S2902 8=S2616

Analyst: [signature] Date: 3/20/06

8260/6200 w ICV

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 446114231 Instrument: MSVOA05 HP GCMS VOA 05 Begun: 20-MAR-2006

Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	eck01	X	IB			20-MAR-2006 07:51	1.0						1	
002	eck02	TUN	BFB			20-MAR-2006 08:24	1.0						2	
003	eck03	CCV	20PPB			20-MAR-2006 08:57	1.0	1		5000			3 4 5 1	
004	eck04	BS	QC332117	111452	Water	20-MAR-2006 09:44	1.0	2	1	5000			6 7 8 1	
005	eck05	ICV	25PPB			20-MAR-2006 10:15	1.0	1		5000			6 7 8 1	

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Stds used: 1=S2707 2=S2327 3=S2783 4=S2844 5=S2410 6=S2953 7=S2902 8=S2616

Analyst: BR Date: 3/20/06

03/20/06

19-27
32-35

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 446117121 Instrument: MSVOA05 HP GCMS VOA 05 Begun: 22-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	ecm01	X	IB			22-MAR-2006 08:01	1.0						1	
002	ecm02	TUN	BFB			22-MAR-2006 08:36	1.0						2	
003	ecm03	CCV	25PPB			22-MAR-2006 08:52	1.0	2		5000			3 4 5 1	
004	ecm04	BS	QC332468	111544	Water	22-MAR-2006 09:38	1.0	2	1	5000			6 7 8 1	
005	ecm05	X	QC332469	111544	Water	22-MAR-2006 10:10	1.0	2	3	5000			6 7 8 1	
006	ecm06	X	IB			22-MAR-2006 10:42	1.0						1	
007	ecm07	BSD	QC332469	111544	Water	22-MAR-2006 11:13	1.0	2	1	5000			6 7 8 1	
008	ecm08	X	QC332469	111544	Water	22-MAR-2006 11:45	1.0	2	15	5000			6 7 8 1 spk	
009	ecm09	X	IB			22-MAR-2006 12:16	1.0						1	
010	ecm10	BLANK	QC332470	111544	Water	22-MAR-2006 12:48	1.0	1	1	5000			1	
011	ecm11	SAMPLE	185622-020	111544	Water	22-MAR-2006 13:19	1.0			5000	B	C2	1	
012	ecm12	SAMPLE	185622-021	111544	Water	22-MAR-2006 13:51	1.0		1	5000			1 12DCA↑ - NOOK	
013	ecm13	SAMPLE	185622-022	111544	Water	22-MAR-2006 14:23	1.0			5000			1	
014	ecm14	SAMPLE	185622-023	111544	Water	22-MAR-2006 14:54	1.0			5000	A		1	
015	ecm15	SAMPLE	185622-024	111544	Water	22-MAR-2006 15:26	1.0			5000	B		1	
016	ecm16	SAMPLE	185622-025	111544	Water	22-MAR-2006 15:57	1.0		1	5000			1 12DCA↑ - NO OK	
017	ecm17	SAMPLE	185622-026	111544	Water	22-MAR-2006 16:29	1.0			5000			1	
018	ecm18	SAMPLE	185622-027	111544	Water	22-MAR-2006 17:01	1.0			5000			1	
019	ecm19	SAMPLE	185622-033	111544	Water	22-MAR-2006 17:32	1.0			5000	A		1	
020	ecm20	SAMPLE	185622-034	111544	Water	22-MAR-2006 18:04	1.0			5000			1	
021	ecm21	SAMPLE	185622-035	111544	Water	22-MAR-2006 18:35	1.0			5000			1	
022	ecm22	SAMPLE	185622-019	111544	Water	22-MAR-2006 19:07	1.0			5000	A		1	
023	ecm23	SAMPLE	185622-032	111544	Water	22-MAR-2006 19:38	1.0			5000			1	
024	ecm24	SAMPLE	185489-008	111544	Water	22-MAR-2006 20:10	1.0			5000			1	
025	ecm25	X	IB			22-MAR-2006 20:42	1.0						1	
026	ecm26	X	IB			22-MAR-2006 21:13	1.0						1	
027	ecm27	X	IB			22-MAR-2006 21:45	1.0						1	

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Stds used: 1=S2707 2=S2327 3=S2783 4=S2844 5=S2410 6=S2902 7=S2953 8=S2616
Flags used: spk=5% spike rule

Analyst: [signature] Date: 3/23/06

3/23/06

1 - 7

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 456117120 Instrument: MSVOA06 HP GCMS VOA 06 Begun: 22-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	fcm01	X	IB			22-MAR-2006 08:00	1.0						1	
002	fcm02	TUN	BFB			22-MAR-2006 08:31	1.0						2	
003	fcm03	CCV	25PPB			22-MAR-2006 08:50	1.0	1		5000			3 4 5 1	
004	fcm04	BS	QC332465	111543	Water	22-MAR-2006 09:41	1.0	1		5000			6 7 8 1	
005	fcm05	BSD	QC332466	111543	Water	22-MAR-2006 10:16	1.0	1		5000			6 7 8 1	
006	fcm06	X	IB			22-MAR-2006 10:52	1.0						1	
007	fcm07	BLANK	QC332467	111543	Water	22-MAR-2006 11:27	1.0	1	1	5000			1	
008	fcm08	SAMPLE	185574-038	111543	Water	22-MAR-2006 12:02	2.0			5000	B	L2	1	
009	fcm09	SAMPLE	185626-003	111543	Water	22-MAR-2006 12:37	1.0			5000	A		1	
010	fcm10	SAMPLE	185638-008	111543	Water	22-MAR-2006 13:13	1.0			5000			1	
011	fcm11	SAMPLE	185638-005	111543	Water	22-MAR-2006 13:48	1.0			5000	C		1	
012	fcm12	SAMPLE	185638-007	111543	Water	22-MAR-2006 14:23	1.0			5000			1	
013	fcm13	SAMPLE	185626-001	111543	Water	22-MAR-2006 14:58	1.0			5000	A		1	
014	fcm14	SAMPLE	185626-002	111543	Water	22-MAR-2006 15:32	1.0			5000			1	
015	fcm15	SAMPLE	185622-001	111543	Water	22-MAR-2006 16:07	1.0			5000	A		1	240
016	fcm16	SAMPLE	185622-002	111543	Water	22-MAR-2006 16:43	1.0			5000			1	
017	fcm17	SAMPLE	185622-003	111543	Water	22-MAR-2006 17:18	1.0			5000			1	
018	fcm18	SAMPLE	185622-004	111543	Water	22-MAR-2006 17:53	1.0			5000			1	
019	fcm19	SAMPLE	185622-005	111543	Water	22-MAR-2006 18:28	1.0			5000			1	
020	fcm20	SAMPLE	185622-006	111543	Water	22-MAR-2006 19:03	1.0			5000	A		1	
021	fcm21	SAMPLE	185622-007	111543	Water	22-MAR-2006 19:39	1.0			5000			1	
022	fcm22	SAMPLE	185625-001	111543	Water	22-MAR-2006 20:14	1.0			5000	A	4	1	
023	fcm23	X	IB			22-MAR-2006 20:48	1.0						1	
024	fcm24	X	IB			22-MAR-2006 21:24	1.0						1	
025	fcm25	X	IB			22-MAR-2006 21:59	1.0						1	

3/23/06

Stds used: 1=S2740 2=S2327 3=S2844 4=S2783 5=S2410 6=S2902 7=S2953 8=S2616

Analyst: [illegible] Date: 3/22/06

9-12, 15

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 486117105 Instrument: MSVOA09 HP GCMS VOA 09 Begun: 22-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	icm01	X	IB			22-MAR-2006 07:45	1.0						1	
002	icm02	TUN	BFB			22-MAR-2006 08:19	1.0						2	
003	icm03	CCV	25PPB			22-MAR-2006 08:35	1.0	1		5000			3 4 5 1	
004	icm04	BS	QC332462	111542	Water	22-MAR-2006 09:21	1.0	3	1	5000			6 7 8 1	
005	icm05	BSD	QC332463	111542	Water	22-MAR-2006 09:58	1.0	3	1	5000			6 7 8 1	
006	icm06	X	IB			22-MAR-2006 10:34	1.0						1	
007	icm07	BLANK	QC332464	111542	Water	22-MAR-2006 11:10	1.0	1	1	5000			1	
008	icm08	SAMPLE	185622-009	111542	Water	22-MAR-2006 11:44	1.0			5000	B	L2	1	
009	icm09	SAMPLE	185622-010	111542	Water	22-MAR-2006 12:19	1.0			5000			1	
010	icm10	SAMPLE	185622-011	111542	Water	22-MAR-2006 12:54	1.0			5000			1	
011	icm11	SAMPLE	185622-012	111542	Water	22-MAR-2006 13:28	1.0	1		5000			1	
012	icm12	SAMPLE	185622-015	111542	Water	22-MAR-2006 14:03	1.0	1		5000			1	
013	icm13	SAMPLE	185636-009	111542	Water	22-MAR-2006 14:38	1.0			5000	C		1 Bubble	
014	icm14	SAMPLE	185567-004	111542	Water	22-MAR-2006 15:12	5.0	1		5000			1	
015	icm15	SAMPLE	185636-004	111542	Water	22-MAR-2006 15:46	125.0			5000	B		1	2:ACE=281.104
016	icm16	SAMPLE	185636-005	111542	Water	22-MAR-2006 16:20	71.43			5000			1	2:ACE=225.192
017	icm17	SAMPLE	185636-006	111542	Water	22-MAR-2006 16:55	200.0			5000			1	1:ACE=239.830
018	icm18	SAMPLE	185636-007	111542	Water	22-MAR-2006 17:29	100.0			5000			1	2:ACE=243.305
019	icm19	SAMPLE	185636-008	111542	Water	22-MAR-2006 18:03	625.0			5000			1	
020	icm20	SAMPLE	185693-001	111542	Water	22-MAR-2006 18:37	1.0			5000			1	
021	icm21	SAMPLE	185693-002	111542	Water	22-MAR-2006 19:12	1.0			5000			1	
022	icm22	SAMPLE	185693-003	111542	Water	22-MAR-2006 19:46	1.0			5000			1	
023	icm23	X	IB			22-MAR-2006 20:20	1.0						1	
024	icm24	X	IB			22-MAR-2006 20:55	1.0						1	
025	icm25	X	IB			22-MAR-2006 21:29	1.0						1	

Stds used: 1=S2743 2=S2327 3=S2783 4=S2844 5=S2410 6=S2902 7=S2953 8=S2616

Analyst: [signature] Date: 3/22/06

03/23/06

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185622 8260 Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CVBCADMCMDVDMDTTCDBTDBMDBDTHPDCEXXTSTPDDBB	LCRLCCTDTCACEC CTCZCCDICZCCXCBLBYYOTBCBCZR	MMEEE LSBE ACEL ACA EPCBPMPAOECBZLLTYMAFAM4	EA 1N E1 1 1M1L1 AMKZ1E1122 MZ MOX E MF1E F	2 3 2	
185622-001	MSVOA06	03/22/06 16:07	1.0						
185622-002	MSVOA06	03/22/06 16:43	1.0						
185622-003	MSVOA06	03/22/06 17:18	1.0						
185622-004	MSVOA06	03/22/06 17:53	1.0						
185622-005	MSVOA06	03/22/06 18:28	1.0						
185622-006	MSVOA06	03/22/06 19:03	1.0						
185622-007	MSVOA06	03/22/06 19:39	1.0						
185622-009	MSVOA09	03/22/06 11:44	1.0						
185622-010	MSVOA09	03/22/06 12:19	1.0						
185622-011	MSVOA09	03/22/06 12:54	1.0						
185622-012	MSVOA09	03/22/06 13:28	1.0						
185622-015	MSVOA09	03/22/06 14:03	1.0						
185622-019	MSVOA05	03/22/06 19:07	1.0						
185622-020	MSVOA05	03/22/06 13:19	1.0						
185622-021	MSVOA05	03/22/06 13:51	1.0						
185622-022	MSVOA05	03/22/06 14:23	1.0						
185622-023	MSVOA05	03/22/06 14:54	1.0						
185622-024	MSVOA05	03/22/06 15:26	1.0						
185622-025	MSVOA05	03/22/06 15:57	1.0						
185622-026	MSVOA05	03/22/06 16:29	1.0						
185622-027	MSVOA05	03/22/06 17:01	1.0						
185622-032	MSVOA05	03/22/06 19:38	1.0						
185622-033	MSVOA05	03/22/06 17:32	1.0						

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185622 8260 Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CLM	VCM	BRE	CLE	ACE	DCT	MTS	DCC	MAC	DVA	DAC	MCT	DCC	TCC	TCT	CCC	DCA	BCZ	TCC	DCD	BEI	MPC	DBK	BPM	DCZ	BPM	DCP	TAO	HCX	PEC	DCB	CMB	EBZ	XLM	XLO	TTX	STY	TEM	PBA	DCF	DCA	BCM	BCC	BZ3	RM2	4E	F
185622-034	MSVOA05	03/22/06 18:04	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185622-035	MSVOA05	03/22/06 18:35	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC332462	MSVOA09	03/22/06 09:21	1.0						+													+	+					+						+											+	+	+	+				
QC332463	MSVOA09	03/22/06 09:58	1.0						+													+	+					+						+											+	+	+	+				
QC332464	MSVOA09	03/22/06 11:10	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC332465	MSVOA06	03/22/06 09:41	1.0	+	+	+	+		+	+			+		+		+	+	+	+	+	+	+	+	+		+	+	+	+		+	+	+	+								+	+	+	+	+	+	+	
QC332466	MSVOA06	03/22/06 10:16	1.0	+	+	+	+		+	+			+		+		+	+	+	+	+	+	+	+	+		+	+	+	+		+	+	+	+								+	+	+	+	+	+	+	
QC332467	MSVOA06	03/22/06 11:27	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC332468	MSVOA05	03/22/06 09:38	1.0						+													+	+					+						+											+	+	+	+				
QC332469	MSVOA05	03/22/06 11:13	1.0						+													+	+					+						+											+	+	+	+				
QC332470	MSVOA05	03/22/06 12:48	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 3/22/96

PREPPED BY.

111542 WATER

	SAMPLE NUM	AMT o/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	185636 - 4		B	<2			9	125x	
2	- 5			<2				71.4x	
3	- 6							200x	
4	- 7							100x	
5	- 8							625x	
6	- 9		~~B~~ C		Tiny Bubble			EB	
7	185567 - 4		C	<2				PH 5x, Bzn c.o.	
8	185693 - 1							1x	
9	- 2								
0	- 3							1x	
1	185622 - 9		B						
2	- 10								
3	- 11								
4	- 12								
5	- 15								
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									

PREPFORM.3

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 3/22/06

PREPPED BY.

111543

WATER

	SAMPLE NUM	AMT o/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
			B	<2			6	RR 2x TCE OR	
1	185574 -38 *		A	4				1x	
2	185625 -1			<2					
3	185626 -1								
4	-2							TB	
5	-3							1x	
6	185638 -5		C					1x	
7	-7							TB	
8	-8		A					1x	
9	185622 -1								
0	-2								
1	-3								
2	-4								
3	-5								
4	-6		B						
15	-7								
16									
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PREPFORM.

7/21/95

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 3/22/06

PREPPED BY: [illegible]

ITI 544

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	185662-23		A	—			5	TB pir cxk.	
2	185489-8		A	<2				TB	
3	185622-19		A					TB	
4	-20		B					1x	
5	-21								
6	-22								
7	-23		A						
8	-24		B						
9	-25								
10	-26								
11	-27							TB	
12	-32		A					1x	
13	-33								
14	-34								
15	-35		B						
16									
17									
18									
19									
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PREPFORM.>

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water
As of 04/13/06

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
1,1-Dichloroethene	ug/L	0.27	0.22	0.062	0.17	0.10	0.085	0.089
Benzene	ug/L	0.11	0.041	0.060	0.061	0.12	0.044	0.027
Trichloroethene	ug/L	0.21	0.076	0.18	0.17	0.11	0.072	0.087
Toluene	ug/L	0.083	0.083	0.12	0.092	0.062	0.063	0.053
Chlorobenzene	ug/L	0.10	0.090	0.11	0.16	0.16	0.079	0.050
Freon 12	ug/L	0.18	0.099	0.22	0.062	0.15	0.24	0.18
Chloromethane	ug/L	0.12	0.16	0.12	0.18	0.13	0.16	0.089
Vinyl Chloride	ug/L	0.19	0.23	0.10	0.066	0.10	0.17	0.16
Bromomethane	ug/L	0.29	0.30	0.31	0.13	0.31	0.23	0.20
Chloroethane	ug/L	0.33	0.33	0.15	0.16	0.13	0.16	0.12
Trichlorofluoromethane	ug/L	0.16	0.057	0.17	0.10	0.080	0.089	0.10
Acetone	ug/L	0.39	0.87	0.21	0.85	0.16	0.26	0.49
Freon 113	ug/L	0.062	0.12	0.13	0.25	0.071	0.20	0.091
Methylene Chloride	ug/L	0.15	0.21	0.11	0.12	0.16	0.099	0.22
MTBE	ug/L	0.069	0.074	0.065	0.045	0.040	0.051	0.052
Carbon Disulfide	ug/L	0.039	0.031	0.086	0.076	0.11	0.058	0.037
trans-1,2-Dichloroethene	ug/L	0.37	0.13	0.18	0.051	0.064	0.11	0.093
Vinyl Acetate	ug/L	0.076	0.36	0.084	0.99	0.40	0.080	0.10
1,1-Dichloroethane	ug/L	0.088	0.061	0.048	0.090	0.11	0.063	0.063
2-Butanone	ug/L	0.16	0.17	0.20	0.50	0.099	0.17	0.26
cis-1,2-Dichloroethene	ug/L	0.26	0.18	0.083	0.12	0.042	0.096	0.11
2,2-Dichloropropane	ug/L	0.093	0.17	0.077	0.12	0.066	0.084	0.083
Chloroform	ug/L	0.082	0.055	0.086	0.060	0.11	0.030	0.044
Bromochloromethane	ug/L	0.091	0.090	0.10	0.18	0.11	0.20	0.15
1,1,1-Trichloroethane	ug/L	0.084	0.066	0.14	0.11	0.061	0.045	0.041
1,1-Dichloropropene	ug/L	0.12	0.11	0.081	0.16	0.16	0.052	0.055
Carbon Tetrachloride	ug/L	0.089	0.11	0.098	0.17	0.15	0.095	0.056
1,2-Dichloroethane	ug/L	0.090	0.088	0.099	0.096	0.12	0.058	0.056
1,2-Dichloropropane	ug/L	0.093	0.060	0.079	0.071	0.14	0.072	0.12
Bromodichloromethane	ug/L	0.086	0.039	0.067	0.074	0.10	0.081	0.069
Dibromomethane	ug/L	0.16	0.061	0.092	0.16	0.11	0.065	0.13
4-Methyl-2-Pentanone	ug/L	0.044	0.076	0.057	0.20	0.13	0.092	0.25
cis-1,3-Dichloropropene	ug/L	0.068	0.065	0.056	0.20	0.16	0.042	0.044
trans-1,3-Dichloropropene	ug/L	0.074	0.074	0.044	0.073	0.14	0.071	0.060
1,1,2-Trichloroethane	ug/L	0.12	0.12	0.14	0.19	0.15	0.094	0.058
2-Hexanone	ug/L	0.043	0.31	0.047	0.34	0.11	0.13	0.14
1,3-Dichloropropane	ug/L	0.064	0.067	0.061	0.063	0.10	0.045	0.068
Tetrachloroethene	ug/L	0.13	0.14	0.12	0.22	0.14	0.090	0.093
Dibromochloromethane	ug/L	0.099	0.054	0.10	0.085	0.056	0.077	0.063
1,2-Dibromoethane	ug/L	0.16	0.061	0.10	0.073	0.11	0.053	0.070
2-Chloroethylvinylether	ug/L	0.093	0.18	0.24	0.17	0.14	0.20	0.23
1,1,1,2-Tetrachloroethane	ug/L	0.11	0.087	0.10	0.11	0.14	0.046	0.088
Ethylbenzene	ug/L	0.059	0.076	0.075	0.17	0.041	0.060	0.11
m,p-Xylenes	ug/L	0.24	0.22	0.14	0.27	0.17	0.13	0.20
o-Xylene	ug/L	0.10	0.058	0.092	0.11	0.16	0.11	0.13

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water
As of 04/13/06

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
Styrene	ug/L	0.12	0.092	0.098	0.085	0.16	0.075	0.061
Bromoform	ug/L	0.12	0.088	0.11	0.18	0.094	0.079	0.15
Isopropylbenzene	ug/L	0.12	0.059	0.090	0.18	0.059	0.053	0.10
1,1,2,2-Tetrachloroethane	ug/L	0.13	0.096	0.086	0.047	0.13	0.070	0.055
1,2,3-Trichloropropane	ug/L	0.31	0.28	0.074	0.11	0.17	0.20	0.16
Propylbenzene	ug/L	0.075	0.10	0.063	0.21	0.023	0.055	0.11
Bromobenzene	ug/L	0.12	0.12	0.10	0.19	0.12	0.073	0.085
1,3,5-Trimethylbenzene	ug/L	0.060	0.095	0.047	0.14	0.057	0.077	0.13
2-Chlorotoluene	ug/L	0.12	0.11	0.068	0.15	0.025	0.047	0.12
4-Chlorotoluene	ug/L	0.079	0.069	0.043	0.14	0.037	0.032	0.069
tert-Butylbenzene	ug/L	0.11	0.15	0.075	0.19	0.038	0.042	0.079
1,2,4-Trimethylbenzene	ug/L	0.091	0.088	0.066	0.12	0.069	0.077	0.10
sec-Butylbenzene	ug/L	0.11	0.12	0.062	0.17	0.088	0.041	0.076
para-Isopropyl Toluene	ug/L	0.058	0.12	0.12	0.14	0.056	0.055	0.045
1,3-Dichlorobenzene	ug/L	0.080	0.16	0.097	0.18	0.060	0.071	0.10
1,4-Dichlorobenzene	ug/L	0.068	0.14	0.095	0.18	0.038	0.092	0.17
n-Butylbenzene	ug/L	0.12	0.15	0.11	0.18	0.21	0.048	0.12
1,2-Dichlorobenzene	ug/L	0.072	0.14	0.080	0.14	0.16	0.068	0.061
1,2-Dibromo-3-Chloropropane	ug/L	0.39	0.25	0.21	0.22	0.13	0.26	0.098
1,2,4-Trichlorobenzene	ug/L	0.12	0.17	0.14	0.16	0.10	0.16	0.17
Hexachlorobutadiene	ug/L	0.19	0.19	0.29	0.21	0.11	0.24	0.25
Naphthalene	ug/L	0.12	0.13	0.060	0.10	0.091	0.20	0.16
1,2,3-Trichlorobenzene	ug/L	0.063	0.17	0.10	0.20	0.095	0.18	0.29
tert-Butyl Alcohol (TBA)	ug/L	1.3	1.6	0.83	2.5	1.3	0.94	1.3
Isopropyl Ether (DIPE)	ug/L	0.068	0.070	0.063	0.027	0.030	0.053	0.027
Ethyl tert-Butyl Ether (ETBE)	ug/L	0.089	0.045	0.024	0.20	0.033	0.075	0.034
Methyl tert-Amyl Ether (TAME)	ug/L	0.094	0.13	0.055	0.054	0.048	0.032	0.057
Isopropanol	ug/L	4.6	2.7	1.6	6.6	1.5	1.4	1.1
Ethanol	ug/L	55	22	23	50	11	7.9	36
Hexane	ug/L				0.33		0.15	
Cyclohexanone	ug/L	3.8	2.4	0.21	1.6	1.6	2.5	
Tetrahydrofuran	ug/L	0.64	1.2	1.1	0.79	1.4	1.7	3.5
Tetramethyl THF	ug/L	0.067	0.061	0.062	0.20	0.10	0.055	0.078
Gasoline C6-C10	ug/L		15		4.8	15	8.5	
Gasoline C7-C12	ug/L		18		2.4	13	7.7	
Dibromofluoromethane	ug/L	3.1	2.9	1.8	2.4	1.5		3.2
1,2-Dichloroethane-d4	ug/L	3.0	3.9		2.4	1.2		3.0
Toluene-d8	ug/L	1.7	3.8		1.1	1.0		1.1
Bromofluorobenzene	ug/L	2.5	2.6		1.2	1.2		1.5
Trifluorotoluene	ug/L	0.12	0.43	0.065	0.21	0.13		0.14

PESTICIDES

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	LF08GW02B	Batch#:	111622
Lab ID:	185622-003	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/23/06
Diln Fac:	1.000	Analyzed:	03/24/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.09
4,4'-DDE	ND	0.09
Endrin	ND	0.09
Endosulfan II	ND	0.09
Endosulfan sulfate	ND	0.09
4,4'-DDD	ND	0.09
4,4'-DDT	ND	0.09
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.09
Toxaphene	ND	0.9

Surrogate	%REC	Limits
TCMX	81	65-135
Decachlorobiphenyl	85	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	LF08GW03	Batch#:	111622
Lab ID:	185622-004	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/23/06
Diln Fac:	1.000	Analyzed:	03/24/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	87	65-135
Decachlorobiphenyl	94	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	LF08GW04	Batch#:	111622
Lab ID:	185622-005	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/23/06
Diln Fac:	1.000	Analyzed:	03/24/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	89	65-135
Decachlorobiphenyl	86	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	DUP0316064A	Batch#:	111622
Lab ID:	185622-006	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/23/06
Diln Fac:	1.000	Analyzed:	03/24/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	80	65-135
Decachlorobiphenyl	75	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	DAEGW101	Batch#:	111622
Lab ID:	185622-020	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/23/06
Diln Fac:	1.000	Analyzed:	03/24/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	81	65-135
Decachlorobiphenyl	71	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	DAEGW102	Batch#:	111622
Lab ID:	185622-021	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/23/06
Diln Fac:	1.000	Analyzed:	03/24/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	85	65-135
Decachlorobiphenyl	75	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	DAEGW104	Batch#:	111622
Lab ID:	185622-022	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/23/06
Diln Fac:	1.000	Analyzed:	03/25/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	76	65-135
Decachlorobiphenyl	79	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	1349MW01	Batch#:	111622
Lab ID:	185622-024	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/23/06
Diln Fac:	1.000	Analyzed:	03/25/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	83	65-135
Decachlorobiphenyl	78	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	1349MW03R	Batch#:	111622
Lab ID:	185622-025	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/23/06
Diln Fac:	1.000	Analyzed:	03/25/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	82	65-135
Decachlorobiphenyl	88	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	1349MW100	Batch#:	111622
Lab ID:	185622-026	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/23/06
Diln Fac:	1.000	Analyzed:	03/25/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	0.1 C	0.05
Heptachlor	0.8 C	0.05
Aldrin	0.3	0.05
Heptachlor epoxide	0.2	0.05
Endosulfan I	ND	0.05
Dieldrin	0.4 C	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	0.9 C	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	0.9 C	0.05
gamma-Chlordane	0.7 C	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	92	65-135
Decachlorobiphenyl	64 *	65-135

*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	1349MW101	Batch#:	111622
Lab ID:	185622-027	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/23/06
Diln Fac:	1.000	Analyzed:	03/25/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	77	65-135
Decachlorobiphenyl	78	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	LF6GW101	Batch#:	111666
Lab ID:	185622-030	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/24/06
Diln Fac:	1.000	Analyzed:	03/27/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	84	65-135
Decachlorobiphenyl	74	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	LF08GW01	Batch#:	111666
Lab ID:	185622-033	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/24/06
Diln Fac:	1.000	Analyzed:	03/27/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	84	65-135
Decachlorobiphenyl	84	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	LF08GW06	Batch#:	111666
Lab ID:	185622-034	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/24/06
Diln Fac:	1.000	Analyzed:	03/27/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.09
4,4'-DDE	ND	0.09
Endrin	ND	0.09
Endosulfan II	ND	0.09
Endosulfan sulfate	ND	0.09
4,4'-DDD	ND	0.09
4,4'-DDT	ND	0.09
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.09
Toxaphene	ND	0.9

Surrogate	%REC	Limits
TCMX	80	65-135
Decachlorobiphenyl	74	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	LF08GW06RB01	Batch#:	111666
Lab ID:	185622-035	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/24/06
Diln Fac:	1.000	Analyzed:	03/27/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	89	65-135
Decachlorobiphenyl	75	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	LF6GW100	Batch#:	111666
Lab ID:	185622-036	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/24/06
Diln Fac:	1.000	Analyzed:	03/27/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.09
4,4'-DDE	ND	0.09
Endrin	ND	0.09
Endosulfan II	ND	0.09
Endosulfan sulfate	ND	0.09
4,4'-DDD	ND	0.09
4,4'-DDT	ND	0.09
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.09
Toxaphene	ND	0.9

Surrogate	%REC	Limits
TCMX	75	65-135
Decachlorobiphenyl	47 *	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	LF6GW103	Batch#:	111666
Lab ID:	185622-037	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/24/06
Diln Fac:	1.000	Analyzed:	03/27/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.09
4,4'-DDE	ND	0.09
Endrin	ND	0.09
Endosulfan II	ND	0.09
Endosulfan sulfate	ND	0.09
4,4'-DDD	ND	0.09
4,4'-DDT	ND	0.09
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.09
Toxaphene	ND	0.9

Surrogate	%REC	Limits
TCMX	73	65-135
Decachlorobiphenyl	59 *	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332805	Batch#:	111622
Matrix:	Water	Prepared:	03/23/06
Units:	ug/L	Analyzed:	03/24/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	65	65-135
Decachlorobiphenyl	97	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332987	Batch#:	111666
Matrix:	Water	Prepared:	03/24/06
Units:	ug/L	Analyzed:	03/27/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	78	65-135
Decachlorobiphenyl	75	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Matrix:	Water	Batch#:	111622
Units:	ug/L	Prepared:	03/23/06
Diln Fac:	1.000	Analyzed:	03/24/06

Type: BS Lab ID: QC332806

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	0.2000	0.1772	89	65-135
Heptachlor	0.2000	0.1895	95	65-135
Aldrin	0.2000	0.1708	85	65-135
Dieldrin	0.4000	0.3344	84	65-135
Endrin	0.4000	0.3468	87	65-135
4,4'-DDT	0.4000	0.3405	85	65-135

Surrogate	%REC	Limits
TCMX	76	65-135
Decachlorobiphenyl	77	65-135

Type: BSD Lab ID: QC332807

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	0.2000	0.1861	93	65-135	5	35
Heptachlor	0.2000	0.1989	99	65-135	5	35
Aldrin	0.2000	0.1799	90	65-135	5	35
Dieldrin	0.4000	0.3549	89	65-135	6	35
Endrin	0.4000	0.3657	91	65-135	5	35
4,4'-DDT	0.4000	0.3621	91	65-135	6	35

Surrogate	%REC	Limits
TCMX	83	65-135
Decachlorobiphenyl	84	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Matrix:	Water	Batch#:	111666
Units:	ug/L	Prepared:	03/24/06
Diln Fac:	1.000	Analyzed:	03/27/06

Type: BS Lab ID: QC332988

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	0.2000	0.1805	90	65-135
Heptachlor	0.2000	0.1847	92	65-135
Aldrin	0.2000	0.1804	90	65-135
Dieldrin	0.4000	0.3879	97	65-135
Endrin	0.4000	0.3788	95	65-135
4,4'-DDT	0.4000	0.3654	91	65-135

Surrogate	%REC	Limits
TCMX	85	65-135
Decachlorobiphenyl	62 *	65-135

Type: BSD Lab ID: QC332989

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	0.2000	0.1652	83	65-135	9	35
Heptachlor	0.2000	0.1733	87	65-135	6	35
Aldrin	0.2000	0.1685	84	65-135	7	35
Dieldrin	0.4000	0.3582	90	65-135	8	35
Endrin	0.4000	0.3492	87	65-135	8	35
4,4'-DDT	0.4000	0.3368	84	65-135	8	35

Surrogate	%REC	Limits
TCMX	78	65-135
Decachlorobiphenyl	79	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Confirmation Report for 185622 PEST Water
Curtis & Tompkins Laboratories

Units: ug/L

Lab ID	Client ID	Analyte	Result	Confirmation	RPD	%D
185622-026	1349MW100	delta-BHC	0.1197 C	0.06832	55	-43
185622-026	1349MW100	Heptachlor	0.8068 C	0.1224	147	-85
185622-026	1349MW100	Aldrin	0.2589	0.2231	15	-14
185622-026	1349MW100	Heptachlor epoxide	0.2281	0.1725	28	-24
185622-026	1349MW100	Dieldrin	0.4493 C	0.2653	52	-41
185622-026	1349MW100	4,4'-DDD	0.8557 C	0.4750	57	-44
185622-026	1349MW100	alpha-Chlordane	0.9085 C	0.3837	81	-58
185622-026	1349MW100	gamma-Chlordane	0.7456 C	0.1654	127	-78

C=RPD between columns exceeds 40%

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185622 PEST Water: EPA 8081A

Inst : GC21
Calnum : 246090289001
Units : pg

Name : gc21pest062
Date : 03-MAR-2006 16:49
X Axis : R

Reviewer: MCH
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	062_007	246090289007	pest_1	03-MAR-2006 16:49	S2827
L2	062_008	246090289008	pest_2	03-MAR-2006 17:06	S2039
L3	062_009	246090289009	pest_3	03-MAR-2006 17:23	S2824
L4	062_010	246090289010	pest_4	03-MAR-2006 17:41	S2372
L5	062_011	246090289011	pest_5	03-MAR-2006 17:58	S2663
L6	062_012	246090289012	pest_6	03-MAR-2006 18:15	S2828
L7	062_013	246090289013	pest_7	03-MAR-2006 18:33	S2823

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
alpha-BHC	A	15186	14539	13770	13435	13877	13587	12182	AVRG		7.25E-5		13797	7	0.995	20	
gamma-BHC	A	13643	13740	12750	12639	13116	12334	11010	AVRG		7.84E-5		12747	7	0.995	20	
beta-BHC	A	6074.0	5916.8	5452.9	5253.8	5350.0	4961.6	4654.6	AVRG		1.86E-4		5380.5	9	0.995	20	
delta-BHC	A	13337	13643	12559	12818	13276	12231	10744	AVRG		7.90E-5		12658	8	0.995	20	
Heptachlor	A	10866	11505	10481	10418	10788	10390	9314.6	AVRG		9.49E-5		10537	6	0.995	20	
Aldrin	A	12810	12326	11449	11178	11611	10900	9480.2	AVRG		8.78E-5		11393	9	0.995	20	
Heptachlor epoxide	A	12074	11243	10575	9936.1	10310	9809.4	8521.4	AVRG		9.66E-5		10353	11	0.995	20	
gamma-Chlordane	A	12339	11468	10697	10265	10505	10142	8952.6	AVRG		9.41E-5		10624	10	0.995	20	
alpha-Chlordane	A	11835	11323	10033	10187	10465	9843.6	8590.7	AVRG		9.69E-5		10325	10	0.995	20	
4,4'-DDE	A	10909	10533	9864.5	9844.3	10154	9164.7	7141.4	AVRG		1.04E-4		9658.6	13	0.995	20	
Endosulfan I	A	11137	10504	9917.9	9314.5	9441.6	8769.4	7936.7	AVRG		1.04E-4		9574.3	11	0.995	20	
Dieldrin	A	11073	10842	10062	9943.8	10271	8910.0	6764.0	AVRG		1.03E-4		9695.0	15	0.995	20	
Endrin	A	8177.0	8056.5	7341.1	7247.0	7555.2	6952.4	5679.6	AVRG		1.37E-4		7287.0	11	0.995	20	
4,4'-DDD	A	7826.3	7569.7	7076.6	7277.2	7582.4	7258.7	5892.4	AVRG		1.39E-4		7211.9	9	0.995	20	
Endosulfan II	A	10051	9217.4	9179.9	8407.1	8568.4	7805.6	6275.6	AVRG		1.18E-4		8500.7	14	0.995	20	
4,4'-DDT	A	6746.5	7434.6	6874.2	7358.5	7640.4	7280.7	6117.6	AVRG		1.42E-4		7064.6	7	0.995	20	
Methoxychlor	A	2967.5	3121.2	2829.9	2955.0	2972.0	2393.2	1649.9	AVRG		3.71E-4		2698.4	19	0.995	20	
Endosulfan sulfate	A	7977.8	7549.4	6979.8	6805.1	7016.6	6480.9	5376.7	AVRG		1.45E-4		6883.8	12	0.995	20	
Endrin ketone	A	9050.3	8688.4	8066.8	8050.9	8307.8	7525.3	5795.7	AVRG		1.26E-4		7926.5	13	0.995	20	
TCMX	A	9987.5	9445.7	9184.7	8499.5	8783.5	8716.9	7804.2	AVRG		1.12E-4		8917.4	8	0.995	20	
Decachlorobiphenyl	A	6698.3	6152.3	5656.9	5471.6	5472.9	5372.8	4736.6	AVRG		1.77E-4		5651.6	11	0.995	20	
alpha-BHC	B	12960	12479	11566	14001	11683	12352	9907.9	AVRG		8.24E-5		12135	11	0.995	20	
gamma-BHC	B	11425	11317	10400	12744	10523	10745	8653.7	AVRG		9.23E-5		10830	11	0.995	20	
beta-BHC	B	5298.5	5149.6	4866.2	5714.7	4656.5	4774.8	3997.1	AVRG		2.03E-4		4922.5	11	0.995	20	
delta-BHC	B	10979	10445	10059	12433	10100	9924.9	7848.8	AVRG		9.75E-5		10256	13	0.995	20	
Heptachlor	B	8923.0	9901.0	9368.3	10671	8989.3	9374.4	7943.6	AVRG		1.07E-4		9310.0	9	0.995	20	

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Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aldrin	B	10566	10190	9440.4	11353	9413.9	9545.6	7800.9	AVRG		1.02E-4		9758.5	11	0.995	20	
Heptachlor epoxide	B	9735.0	9166.8	8693.1	9743.8	8194.6	8363.1	6836.3	AVRG		1.15E-4		8676.1	12	0.995	20	
gamma-Chlordane	B	10110	9445.8	8913.8	10212	8563.1	8689.4	7255.0	AVRG		1.11E-4		9027.0	11	0.995	20	
alpha-Chlordane	B	9705.0	9115.8	8403.5	10025	8247.7	8117.4	6950.3	AVRG		1.16E-4		8652.2	12	0.995	20	
4,4'-DDE	B	9225.5	8789.5	8210.6	9760.2	8133.7	7623.4	5655.7	AVRG		1.22E-4		8199.8	16	0.995	20	
Endosulfan I	B	9121.0	8979.2	8079.0	9304.9	7972.6	7794.9	6304.0	AVRG		1.22E-4		8222.2	13	0.995	20	
Dieldrin	B	9476.0	8938.0	8308.9	9777.3	8202.1	7472.2	5471.0	AVRG		1.21E-4		8235.1	18	0.995	20	
Endrin	B	6817.5	6531.9	6317.0	6753.9	5672.9	5407.8	4269.0	AVRG		1.68E-4		5967.1	15	0.995	20	
4,4'-DDD	B	7643.8	7095.7	6969.9	7942.8	6780.7	6366.8	4844.0	AVRG		1.47E-4		6806.2	15	0.995	20	
Endosulfan II	B	8202.0	7617.0	7029.2	7927.5	6804.8	6286.1	4757.7	AVRG		1.44E-4		6946.3	17	0.995	20	
4,4'-DDT	B	6763.3	7110.2	6353.1	7660.4	6434.1	6168.2	4824.1	AVRG		1.54E-4		6473.3	14	0.995	20	
Methoxychlor	B	2590.3	2574.9	2427.1	2529.4	2186.1	1792.2		AVRG		4.26E-4		2350.0	13	0.995	20	
Endosulfan sulfate	B	7470.0	6948.4	6335.6	6982.9	5972.4	5538.0	4346.8	AVRG		1.61E-4		6227.7	17	0.995	20	
Endrin ketone	B	9058.0	8221.9	7840.7	8581.4	7436.5	6589.5	4878.0	AVRG		1.33E-4		7515.1	19	0.995	20	
TCMX	B	8856.0	8219.7	7837.4	9077.1	7510.3	8110.1	6413.1	AVRG		1.25E-4		8003.4	11	0.995	20	
Decachlorobiphenyl	B	7380.0	6391.6	6027.9	6418.6	5533.5	5391.2	4346.5	AVRG		1.69E-4		5927.0	16	0.995	20	
Average EPA 8081A	A												(n=22)	11		20	
Average EPA 8081A	B												(n=22)	14		20	

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AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185622 PEST Water
EPA 8081A

Inst : GC21 Name : gc21pest062
Calnum : 246090289001 Cal Date: 03-MAR-2006

ICV 246090289015 (062_015 03-MAR-2006) stds: S2502

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
alpha-BHC	A	25.00	24.41	pg	-2	15	
gamma-BHC	A	25.00	24.17	pg	-3	15	
beta-BHC	A	25.00	23.72	pg	-5	15	
delta-BHC	A	25.00	24.90	pg	0	15	
Heptachlor	A	25.00	24.55	pg	-2	15	
Aldrin	A	25.00	23.91	pg	-4	15	
Heptachlor epoxide	A	25.00	23.60	pg	-6	15	
gamma-Chlordane	A	25.00	23.06	pg	-8	15	
alpha-Chlordane	A	25.00	23.17	pg	-7	15	
4,4'-DDE	A	25.00	25.01	pg	0	15	
Endosulfan I	A	25.00	23.79	pg	-5	15	
Dieldrin	A	25.00	25.17	pg	1	15	
Endrin	A	25.00	25.34	pg	1	15	
4,4'-DDD	A	25.00	24.28	pg	-3	15	
Endosulfan II	A	25.00	26.12	pg	4	15	
4,4'-DDT	A	25.00	25.76	pg	3	15	
Methoxychlor	A	25.00	32.12	pg	**28**	15	v+ ***
Endosulfan sulfate	A	25.00	25.52	pg	2	15	
Endrin ketone	A	25.00	26.09	pg	4	15	
alpha-BHC	B	25.00	26.88	pg	8	15	
gamma-BHC	B	25.00	26.54	pg	6	15	
beta-BHC	B	25.00	26.52	pg	6	15	
delta-BHC	B	25.00	25.95	pg	4	15	
Heptachlor	B	25.00	28.59	pg	14	15	
Aldrin	B	25.00	26.24	pg	5	15	
Heptachlor epoxide	B	25.00	26.31	pg	5	15	
gamma-Chlordane	B	25.00	25.47	pg	2	15	
alpha-Chlordane	B	25.00	25.66	pg	3	15	
4,4'-DDE	B	25.00	27.82	pg	11	15	
Endosulfan I	B	25.00	25.99	pg	4	15	
Dieldrin	B	25.00	27.52	pg	10	15	
Endrin	B	25.00	27.43	pg	10	15	
4,4'-DDD	B	25.00	27.80	pg	11	15	
Endosulfan II	B	25.00	28.03	pg	12	15	
4,4'-DDT	B	25.00	27.30	pg	9	15	
Methoxychlor	B	25.00	32.58	pg	**30**	15	v+ ***
Endosulfan sulfate	B	25.00	27.76	pg	11	15	
Endrin ketone	B	25.00	28.99	pg	**16**	15	v+ ***
Average EPA 8081A	A	n=20			5	15	
Average EPA 8081A	B	n=20			10	15	

+=high bias v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185622 PEST Water: EPA 8081A

Inst : GC23
Calnum : 806115774001
Units : pg

Name : gc23pest080
Date : 21-MAR-2006 19:44
X Axis : R

Reviewer: MCH
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	080_013	806115774013	pest_1	21-MAR-2006 19:44	S2827
L2	080_014	806115774014	pest_2	21-MAR-2006 20:12	S2039
L3	080_015	806115774015	pest_3	21-MAR-2006 20:41	S2824
L4	080_016	806115774016	pest_4	21-MAR-2006 21:10	S2372
L5	080_017	806115774017	pest_5	21-MAR-2006 21:39	S2663
L6	080_018	806115774018	pest_6	21-MAR-2006 22:08	S2828
L7	080_019	806115774019	pest_7	21-MAR-2006 22:37	S2823

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
alpha-BHC	A	14116	16979	13190	15277	13846	14275	17441	AVRG		6.66E-5		15018	11	0.995	20	
gamma-BHC	A	12559	15533	11765	13983	12630	12500	15374	AVRG		7.42E-5		13478	11	0.995	20	
beta-BHC	A	6658.5	6732.8	5112.0	5630.3	5039.8	4840.0	5548.9	AVRG		1.77E-4		5651.8	14	0.995	20	
delta-BHC	A	16182	16877	12435	14387	12935	12428	15348	AVRG		6.96E-5		14370	13	0.995	20	
Heptachlor	A	11267	14108	10746	12619	11259	11286	13729	AVRG		8.23E-5		12145	11	0.995	20	
Aldrin	A	11641	13944	10826	12380	11073	10998	13313	AVRG		8.32E-5		12025	10	0.995	20	
Heptachlor epoxide	A	10914	12897	10296	11109	9897.6	9937.7	11722	AVRG		9.12E-5		10968	10	0.995	20	
gamma-Chlordane	A	10704	12894	10322	11340	9988.1	10006	12142	AVRG		9.04E-5		11057	10	0.995	20	
alpha-Chlordane	A	10543	12596	9863.5	11037	9740.8	9597.4	11537	AVRG		9.34E-5		10702	10	0.995	20	
4,4'-DDE	A	9870.5	12070	9556.1	10799	9620.4	10062	11640	AVRG		9.51E-5		10517	10	0.995	20	
Endosulfan I	A	9842.5	12041	9361.4	10608	9390.4	9185.2	10820	AVRG		9.82E-5		10178	10	0.995	20	
Dieldrin	A	10231	12258	9852.4	11148	9971.1	10260	11647	AVRG		9.29E-5		10767	9	0.995	20	
Endrin	A	8579.0	10798	8535.9	9525.0	8449.8	8675.3	10023	AVRG		1.08E-4		9226.6	10	0.995	20	
4,4'-DDD	A	8435.0	9838.9	8362.8	8899.2	7978.8	8239.5	9909.7	AVRG		1.14E-4		8809.1	9	0.995	20	
Endosulfan II	A	8956.0	10551	8595.3	9327.9	8296.5	8426.4	9907.7	AVRG		1.09E-4		9151.6	9	0.995	20	
4,4'-DDT	A	7244.5	10339	7597.2	8958.1	7780.2	8280.1	10037	AVRG		1.16E-4		8605.2	14	0.995	20	
Methoxychlor	A	3191.1	4425.7	3374.9	3932.8	3409.8	3430.3	3202.1	AVRG		2.80E-4		3566.7	13	0.995	20	
Endosulfan sulfate	A	8460.3	9822.0	7689.0	8144.7	7225.7	7128.7	8248.6	AVRG		1.23E-4		8102.7	11	0.995	20	
Endrin ketone	A	10081	11670	9423.1	10033	8853.7	8988.9	10333	AVRG		1.01E-4		9911.8	10	0.995	20	
TCMX	A	9214.8	10667	8332.5	9382.1	8555.9	9114.1	10788	AVRG		1.06E-4		9436.4	10	0.995	20	
Decachlorobiphenyl	A	6217.3	7710.9	6446.6	6617.1	5603.2	5992.0	6824.1	AVRG		1.54E-4		6487.3	10	0.995	20	
alpha-BHC	B	14238	15238	13595	15202	15291	15899	16217	AVRG		6.62E-5		15097	6	0.995	20	
gamma-BHC	B	13155	14073	12125	14056	14075	14120	14306	AVRG		7.30E-5		13702	6	0.995	20	
beta-BHC	B	6625.5	6386.4	5272.1	5910.0	5800.4	5574.4	5203.7	AVRG		1.72E-4		5824.6	9	0.995	20	
delta-BHC	B	15797	15450	12211	14814	14637	14484	14422	AVRG		6.88E-5		14545	8	0.995	20	
Heptachlor	B	8757.5	10392	8652.0	10770	10700	10784	11019	AVRG		9.85E-5		10153	10	0.995	20	

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Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aldrin	B	12016	12751	10862	12600	12466	12427	12421	AVRG		8.18E-5		12220	5	0.995	20	
Heptachlor epoxide	B	11413	11690	10194	11486	11245	11237	10904	AVRG		8.95E-5		11167	4	0.995	20	
gamma-Chlordane	B	11317	12046	10177	11873	11604	11772	11775	AVRG		8.69E-5		11509	5	0.995	20	
alpha-Chlordane	B	11034	12008	9800.2	11774	11429	11281	11198	AVRG		8.91E-5		11218	6	0.995	20	
4,4'-DDE	B	10786	11533	9627.1	12081	11666	12404	11763	AVRG		8.77E-5		11409	8	0.995	20	
Endosulfan I	B	10388	11264	9294.3	10938	10618	10279	10006	AVRG		9.62E-5		10398	6	0.995	20	
Dieldrin	B	10825	11800	9740.8	11986	11798	12025	11212	AVRG		8.82E-5		11341	7	0.995	20	
Endrin	B	8027.8	8924.1	7081.1	8755.4	8554.3	8628.2	8152.8	AVRG		1.20E-4		8303.4	8	0.995	20	
4,4'-DDD	B	9009.0	9217.7	7846.3	9395.6	9131.8	9593.0	9306.9	AVRG		1.10E-4		9071.5	6	0.995	20	
Endosulfan II	B	10001	10551	8685.6	10380	10170	10296	9753.6	AVRG		1.00E-4		9976.5	6	0.995	20	
4,4'-DDT	B	7044.3	8953.8	6959.8	9531.9	9135.7	9652.2	9650.8	AVRG		1.15E-4		8704.1	14	0.995	20	
Methoxychlor	B	2759.2	3388.9	2532.9	3451.1	3318.5	3225.6	2721.3	AVRG		3.27E-4		3056.8	12	0.995	20	
Endosulfan sulfate	B	9228.5	9397.7	7592.8	9006.6	8711.1	8561.3	8149.7	AVRG		1.15E-4		8663.9	7	0.995	20	
Endrin ketone	B	11322	11780	9456.3	11489	11185	11162	10259	AVRG		9.13E-5		10950	7	0.995	20	
TCMX	B	9591.5	9389.9	8688.5	9160.8	9358.1	9975.3	10348	AVRG		1.05E-4		9501.7	6	0.995	20	
Decachlorobiphenyl	B	8735.5	8828.6	7310.9	8746.5	8456.9	8784.7	8774.3	AVRG		1.17E-4		8519.6	6	0.995	20	
Average EPA 8081A	A												(n=22)	11		20	
Average EPA 8081A	B												(n=22)	7		20	

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AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185622 PEST Water
EPA 8081A

Inst : GC23 Name : gc23pest080
Calnum : 806115774001 Cal Date: 21-MAR-2006

ICV 806115774022 (080_022 22-MAR-2006) stds: S2502

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
alpha-BHC	A	25.00	26.28	pg	5	15	
gamma-BHC	A	25.00	26.16	pg	5	15	
beta-BHC	A	25.00	25.09	pg	0	15	
delta-BHC	A	25.00	25.22	pg	1	15	
Heptachlor	A	25.00	26.24	pg	5	15	
Aldrin	A	25.00	25.39	pg	2	15	
Heptachlor epoxide	A	25.00	25.24	pg	1	15	
gamma-Chlordane	A	25.00	24.52	pg	-2	15	
alpha-Chlordane	A	25.00	24.89	pg	0	15	
4,4'-DDE	A	25.00	25.08	pg	0	15	
Endosulfan I	A	25.00	24.94	pg	0	15	
Dieldrin	A	25.00	24.89	pg	0	15	
Endrin	A	25.00	26.20	pg	5	15	
4,4'-DDD	A	25.00	24.93	pg	0	15	
Endosulfan II	A	25.00	25.47	pg	2	15	
4,4'-DDT	A	25.00	25.39	pg	2	15	
Methoxychlor	A	25.00	30.37	pg	**21**	15	v+ ***
Endosulfan sulfate	A	25.00	25.92	pg	4	15	
Endrin ketone	A	25.00	26.40	pg	6	15	
alpha-BHC	B	25.00	23.45	pg	-6	15	
gamma-BHC	B	25.00	22.99	pg	-8	15	
beta-BHC	B	25.00	22.34	pg	-11	15	
delta-BHC	B	25.00	22.61	pg	-10	15	
Heptachlor	B	25.00	23.68	pg	-5	15	
Aldrin	B	25.00	22.71	pg	-9	15	
Heptachlor epoxide	B	25.00	22.58	pg	-10	15	
gamma-Chlordane	B	25.00	21.96	pg	-12	15	
alpha-Chlordane	B	25.00	22.19	pg	-11	15	
4,4'-DDE	B	25.00	22.15	pg	-11	15	
Endosulfan I	B	25.00	22.60	pg	-10	15	
Dieldrin	B	25.00	22.11	pg	-12	15	
Endrin	B	25.00	23.21	pg	-7	15	
4,4'-DDD	B	25.00	22.46	pg	-10	15	
Endosulfan II	B	25.00	22.84	pg	-9	15	
4,4'-DDT	B	25.00	22.29	pg	-11	15	
Methoxychlor	B	25.00	26.66	pg	7	15	
Endosulfan sulfate	B	25.00	23.25	pg	-7	15	
Endrin ketone	B	25.00	23.76	pg	-5	15	
Average EPA 8081A	A	n=20			3	15	
Average EPA 8081A	B	n=20			9	15	

+=high bias v=ICV

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 185622 PEST Water
EPA 8081A

Inst : GC23 Run Name: pem IDF : 1.0
Seqnum : 806120179002 File : 083_002 Time : 24-MAR-2006 11:28

Standards: S2963

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	795817	1	15	
4,4'-DDE	A	2991			
4,4'-DDD	A	3486			
Endrin	A	410697	6	15	
Endrin aldehyde	A	7778			
Endrin ketone	A	18889			
4,4'-DDT	B	990792	3	15	
4,4'-DDE	B	3529			
4,4'-DDD	B	29698			
Endrin	B	415779	6	15	
Endrin aldehyde	B	843			
Endrin ketone	B	26032			

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 185622 PEST Water
EPA 8081A

Inst : GC23 Run Name: pem IDF : 1.0
Seqnum : 806120179017 File : 083_017 Time : 24-MAR-2006 21:36

Standards: S2963

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	630414	4	15	
4,4'-DDE	A	2150			
4,4'-DDD	A	25441			
Endrin	A	350872	4	15	
Endrin aldehyde	A	3503			
Endrin ketone	A	12417			
4,4'-DDT	B	863667	4	15	
4,4'-DDE	B	2714			
4,4'-DDD	B	34352			
Endrin	B	409068	7	15	
Endrin aldehyde	B	7833			
Endrin ketone	B	24031			

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 185622 PEST Water
EPA 8081A

Inst : GC23 Run Name: pem IDF : 1.0
Seqnum : 806120179028 File : 083_028 Time : 25-MAR-2006 02:52

Standards: S2963

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	730885	4	15	
4,4'-DDE	A	2026			
4,4'-DDD	A	29153			
Endrin	A	397287	3	15	
Endrin aldehyde	A	2722			
Endrin ketone	A	10856			
4,4'-DDT	B	859376	5	15	
4,4'-DDE	B	2832			
4,4'-DDD	B	44932			
Endrin	B	437338	6	15	
Endrin aldehyde	B	4900			
Endrin ketone	B	22310			

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 185622 PEST Water
EPA 8081A

Inst : GC21 Run Name: pem IDF : 1.0
Seqnum : 246124667006 File : 086_006 Time : 27-MAR-2006 14:11

Standards: S2963

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	594921	6	15	
4,4'-DDE	A	7520			
4,4'-DDD	A	30253			
Endrin	A	324283	12	15	
Endrin aldehyde	A	16648			
Endrin ketone	A	28661			
4,4'-DDT	B	513553	8	15	
4,4'-DDE	B	3552			
4,4'-DDD	B	40536			
Endrin	B	243908	**19**	15	
Endrin aldehyde	B	22396			
Endrin ketone	B	35228			

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 185622 PEST Water
EPA 8081A

Inst : GC21 Run Name: pem IDF : 1.0
Seqnum : 246124667018 File : 086_018 Time : 27-MAR-2006 19:04

Standards: S2963

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	586237	7	15	
4,4'-DDE	A	6984			
4,4'-DDD	A	40484			
Endrin	A	332784	9	15	
Endrin aldehyde	A	9070			
Endrin ketone	A	22601			
4,4'-DDT	B	484491	10	15	
4,4'-DDE	B	2583			
4,4'-DDD	B	50699			
Endrin	B	258154	14	15	
Endrin aldehyde	B	12144			
Endrin ketone	B	30659			

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185622 PEST Water
EPA 8081A

Inst : GC23 Run Name: pest_3 IDF : 1.0
Seqnum : 806120179003 File : 083_003 Time : 24-MAR-2006 11:57
Cal : 806115774001 Caldate : 21-MAR-2006
Standards: S2824

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	15018	14064	10.00	9.365	pg	-6	15	
gamma-BHC	A	13478	12618	10.00	9.362	pg	-6	15	
beta-BHC	A	5651.8	5266.9	10.00	9.319	pg	-7	15	
delta-BHC	A	14370	12584	10.00	8.757	pg	-12	15	
Heptachlor	A	12145	11167	10.00	9.195	pg	-8	15	
Aldrin	A	12025	11338	10.00	9.428	pg	-6	15	
Heptachlor epoxide	A	10968	10501	10.00	9.574	pg	-4	15	
gamma-Chlordane	A	11057	10412	10.00	9.417	pg	-6	15	
alpha-Chlordane	A	10702	9818.5	10.00	9.174	pg	-8	15	
4,4'-DDE	A	10517	9641.9	20.00	18.34	pg	-8	15	
Endosulfan I	A	10178	9750.6	10.00	9.580	pg	-4	15	
Dieldrin	A	10767	10097	20.00	18.76	pg	-6	15	
Endrin	A	9226.6	8439.1	20.00	18.29	pg	-9	15	
4,4'-DDD	A	8809.1	8219.2	20.00	18.66	pg	-7	15	
Endosulfan II	A	9151.6	8634.1	20.00	18.87	pg	-6	15	
4,4'-DDT	A	8605.2	7813.2	20.00	18.16	pg	-9	15	
Methoxychlor	A	3566.7	3285.4	100.0	92.12	pg	-8	15	
Endosulfan sulfate	A	8102.7	7532.8	20.00	18.59	pg	-7	15	
Endrin ketone	A	9911.8	9306.4	20.00	18.78	pg	-6	15	
TCMX	A	9436.4	9012.4	20.00	19.10	pg	-4	15	
Decachlorobiphenyl	A	6487.3	6137.1	20.00	18.92	pg	-5	15	
alpha-BHC	B	15097	14655	10.00	9.707	pg	-3	15	
gamma-BHC	B	13702	13111	10.00	9.569	pg	-4	15	
beta-BHC	B	5824.6	5617.7	10.00	9.645	pg	-4	15	
delta-BHC	B	14545	13169	10.00	9.054	pg	-9	15	
Heptachlor	B	10153	9646.5	10.00	9.501	pg	-5	15	
Aldrin	B	12220	11880	10.00	9.721	pg	-3	15	
Heptachlor epoxide	B	11167	11105	10.00	9.944	pg	-1	15	
gamma-Chlordane	B	11509	11227	10.00	9.754	pg	-2	15	
alpha-Chlordane	B	11218	10843	10.00	9.666	pg	-3	15	
4,4'-DDE	B	11409	10756	20.00	18.86	pg	-6	15	
Endosulfan I	B	10398	10212	10.00	9.821	pg	-2	15	
Dieldrin	B	11341	10724	20.00	18.91	pg	-5	15	
Endrin	B	8303.4	7613.9	20.00	18.34	pg	-8	15	
4,4'-DDD	B	9071.5	8587.7	20.00	18.93	pg	-5	15	
Endosulfan II	B	9976.5	9655.4	20.00	19.36	pg	-3	15	
4,4'-DDT	B	8704.1	7962.7	20.00	18.30	pg	-9	15	
Methoxychlor	B	3056.8	2855.3	100.0	93.41	pg	-7	15	
Endosulfan sulfate	B	8663.9	8321.9	20.00	19.21	pg	-4	15	
Endrin ketone	B	10950	10665	20.00	19.48	pg	-3	15	
TCMX	B	9501.7	9460.5	20.00	19.91	pg	0	15	
Decachlorobiphenyl	B	8519.6	8332.9	20.00	19.56	pg	-2	15	
Average EPA 8081A	A	(n=22)					7	15	
Average EPA 8081A	B	(n=22)					4	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185622 PEST Water
EPA 8081A

Inst : GC23 Run Name: pest_4 IDF : 1.0
Seqnum : 806120179018 File : 083_018 Time : 24-MAR-2006 22:04
Cal : 806115774001 Caldate : 21-MAR-2006
Standards: S2372

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	15018	14891	20.00	19.83	pg	-1	15	
gamma-BHC	A	13478	13506	20.00	20.04	pg	0	15	
beta-BHC	A	5651.8	5258.8	20.00	18.61	pg	-7	15	
delta-BHC	A	14370	13268	20.00	18.47	pg	-8	15	
Heptachlor	A	12145	12319	20.00	20.29	pg	1	15	
Aldrin	A	12025	11826	20.00	19.67	pg	-2	15	
Heptachlor epoxide	A	10968	10460	20.00	19.08	pg	-5	15	
gamma-Chlordane	A	11057	10477	20.00	18.95	pg	-5	15	
alpha-Chlordane	A	10702	10168	20.00	19.00	pg	-5	15	
4,4'-DDE	A	10517	9826.2	40.00	37.37	pg	-7	15	
Endosulfan I	A	10178	9840.0	20.00	19.34	pg	-3	15	
Dieldrin	A	10767	10296	40.00	38.25	pg	-4	15	
Endrin	A	9226.6	8886.6	40.00	38.53	pg	-4	15	
4,4'-DDD	A	8809.1	8035.3	40.00	36.49	pg	-9	15	
Endosulfan II	A	9151.6	8451.5	40.00	36.94	pg	-8	15	
4,4'-DDT	A	8605.2	8218.6	40.00	38.20	pg	-4	15	
Methoxychlor	A	3566.7	3585.5	200.0	201.1	pg	1	15	
Endosulfan sulfate	A	8102.7	7321.0	40.00	36.14	pg	-10	15	
Endrin ketone	A	9911.8	8999.7	40.00	36.32	pg	-9	15	
TCMX	A	9436.4	9192.6	40.00	38.97	pg	-3	15	
Decachlorobiphenyl	A	6487.3	5806.9	40.00	35.80	pg	-10	15	
alpha-BHC	B	15097	14638	20.00	19.39	pg	-3	15	
gamma-BHC	B	13702	13946	20.00	20.36	pg	2	15	
beta-BHC	B	5824.6	5775.6	20.00	19.83	pg	-1	15	
delta-BHC	B	14545	14374	20.00	19.76	pg	-1	15	
Heptachlor	B	10153	11535	20.00	22.72	pg	14	15	
Aldrin	B	12220	12484	20.00	20.43	pg	2	15	
Heptachlor epoxide	B	11167	11344	20.00	20.32	pg	2	15	
gamma-Chlordane	B	11509	11726	20.00	20.38	pg	2	15	
alpha-Chlordane	B	11218	11515	20.00	20.53	pg	3	15	
4,4'-DDE	B	11409	11644	40.00	40.83	pg	2	15	
Endosulfan I	B	10398	10776	20.00	20.73	pg	4	15	
Dieldrin	B	11341	11807	40.00	41.65	pg	4	15	
Endrin	B	8303.4	9141.6	40.00	44.04	pg	10	15	
4,4'-DDD	B	9071.5	9279.1	40.00	40.92	pg	2	15	
Endosulfan II	B	9976.5	10213	40.00	40.95	pg	2	15	
4,4'-DDT	B	8704.1	9180.8	40.00	42.19	pg	5	15	
Methoxychlor	B	3056.8	3553.5	200.0	232.5	pg	**16**	15	c+ ***
Endosulfan sulfate	B	8663.9	8816.8	40.00	40.71	pg	2	15	
Endrin ketone	B	10950	11153	40.00	40.74	pg	2	15	
TCMX	B	9501.7	8932.6	40.00	37.60	pg	-6	15	
Decachlorobiphenyl	B	8519.6	8397.5	40.00	39.43	pg	-1	15	
Average EPA 8081A	A	(n=22)					5	15	
Average EPA 8081A	B	(n=22)					4	15	

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185622 PEST Water
EPA 8081A

Inst : GC23 Run Name: pest_5 IDF : 1.0
Seqnum : 806120179029 File : 083_029 Time : 25-MAR-2006 03:21
Cal : 806115774001 Caldate : 21-MAR-2006
Standards: S2663

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	15018	13754	25.00	22.90	pg	-8	15	
gamma-BHC	A	13478	12689	25.00	23.54	pg	-6	15	
beta-BHC	A	5651.8	5103.0	25.00	22.57	pg	-10	15	
delta-BHC	A	14370	13168	25.00	22.91	pg	-8	15	
Heptachlor	A	12145	11657	25.00	24.00	pg	-4	15	
Aldrin	A	12025	11412	25.00	23.72	pg	-5	15	
Heptachlor epoxide	A	10968	10299	25.00	23.48	pg	-6	15	
gamma-Chlordane	A	11057	10520	25.00	23.79	pg	-5	15	
alpha-Chlordane	A	10702	10331	25.00	24.13	pg	-3	15	
4,4'-DDE	A	10517	10460	50.00	49.73	pg	-1	15	
Endosulfan I	A	10178	9995.0	25.00	24.55	pg	-2	15	
Dieldrin	A	10767	10791	50.00	50.11	pg	0	15	
Endrin	A	9226.6	9452.0	50.00	51.22	pg	2	15	
4,4'-DDD	A	8809.1	8802.8	50.00	49.96	pg	0	15	
Endosulfan II	A	9151.6	8958.3	50.00	48.94	pg	-2	15	
4,4'-DDT	A	8605.2	8706.6	50.00	50.59	pg	1	15	
Methoxychlor	A	3566.7	3976.2	250.0	278.7	pg	11	15	
Endosulfan sulfate	A	8102.7	7733.5	50.00	47.72	pg	-5	15	
Endrin ketone	A	9911.8	9582.2	50.00	48.34	pg	-3	15	
TCMX	A	9436.4	8361.6	50.00	44.30	pg	-11	15	
Decachlorobiphenyl	A	6487.3	6261.3	50.00	48.26	pg	-3	15	
alpha-BHC	B	15097	15035	25.00	24.90	pg	0	15	
gamma-BHC	B	13702	13889	25.00	25.34	pg	1	15	
beta-BHC	B	5824.6	5690.8	25.00	24.43	pg	-2	15	
delta-BHC	B	14545	14535	25.00	24.98	pg	0	15	
Heptachlor	B	10153	11169	25.00	27.50	pg	10	15	
Aldrin	B	12220	12347	25.00	25.26	pg	1	15	
Heptachlor epoxide	B	11167	11037	25.00	24.71	pg	-1	15	
gamma-Chlordane	B	11509	11488	25.00	24.95	pg	0	15	
alpha-Chlordane	B	11218	11287	25.00	25.16	pg	1	15	
4,4'-DDE	B	11409	11795	50.00	51.69	pg	3	15	
Endosulfan I	B	10398	10520	25.00	25.29	pg	1	15	
Dieldrin	B	11341	11853	50.00	52.26	pg	5	15	
Endrin	B	8303.4	8997.9	50.00	54.18	pg	8	15	
4,4'-DDD	B	9071.5	9795.5	50.00	53.99	pg	8	15	
Endosulfan II	B	9976.5	10153	50.00	50.88	pg	2	15	
4,4'-DDT	B	8704.1	8378.7	50.00	48.13	pg	-4	15	
Methoxychlor	B	3056.8	3413.5	250.0	279.2	pg	12	15	
Endosulfan sulfate	B	8663.9	8679.1	50.00	50.09	pg	0	15	
Endrin ketone	B	10950	11149	50.00	50.90	pg	2	15	
TCMX	B	9501.7	9397.3	50.00	49.45	pg	-1	15	
Decachlorobiphenyl	B	8519.6	8135.9	50.00	47.75	pg	-5	15	
Average EPA 8081A	A	(n=22)					5	15	
Average EPA 8081A	B	(n=22)					3	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185622 PEST Water
EPA 8081A

Inst : GC21 Run Name: pest_3 IDF : 1.0
Seqnum : 246124667005 File : 086_005 Time : 27-MAR-2006 13:47
Cal : 246090289001 Caldate : 03-MAR-2006
Standards: S2824

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	13797	13312	10.00	9.649	pg	-4	15	
gamma-BHC	A	12747	12091	10.00	9.485	pg	-5	15	
beta-BHC	A	5380.5	5223.3	10.00	9.708	pg	-3	15	
delta-BHC	A	12658	12020	10.00	9.496	pg	-5	15	
Heptachlor	A	10537	10013	10.00	9.503	pg	-5	15	
Aldrin	A	11393	10921	10.00	9.585	pg	-4	15	
Heptachlor epoxide	A	10353	10141	10.00	9.795	pg	-2	15	
gamma-Chlordane	A	10624	10152	10.00	9.556	pg	-4	15	
alpha-Chlordane	A	10325	9809.8	10.00	9.501	pg	-5	15	
4,4'-DDE	A	9658.6	9357.3	20.00	19.38	pg	-3	15	
Endosulfan I	A	9574.3	9174.6	10.00	9.582	pg	-4	15	
Dieldrin	A	9695.0	9619.2	20.00	19.84	pg	-1	15	
Endrin	A	7287.0	6867.3	20.00	18.85	pg	-6	15	
4,4'-DDD	A	7211.9	6518.8	20.00	18.08	pg	-10	15	
Endosulfan II	A	8500.7	9244.0	20.00	21.75	pg	9	15	
4,4'-DDT	A	7064.6	5988.3	20.00	16.95	pg	-15	15	
Methoxychlor	A	2698.4	2618.0	100.0	97.02	pg	-3	15	
Endosulfan sulfate	A	6883.8	6976.1	20.00	20.27	pg	1	15	
Endrin ketone	A	7926.5	8095.7	20.00	20.43	pg	2	15	
TCMX	A	8917.4	8786.5	20.00	19.71	pg	-1	15	
Decachlorobiphenyl	A	5651.6	5647.0	20.00	19.98	pg	0	15	
alpha-BHC	B	12135	13407	10.00	11.05	pg	10	15	
gamma-BHC	B	10830	11983	10.00	11.06	pg	11	15	
beta-BHC	B	4922.5	5536.1	10.00	11.25	pg	12	15	
delta-BHC	B	10256	10577	10.00	10.31	pg	3	15	
Heptachlor	B	9310.0	11384	10.00	12.23	pg	**22**	15	c+ ***
Aldrin	B	9758.5	10838	10.00	11.11	pg	11	15	
Heptachlor epoxide	B	8676.1	9807.3	10.00	11.30	pg	13	15	
gamma-Chlordane	B	9027.0	9931.2	10.00	11.00	pg	10	15	
alpha-Chlordane	B	8652.2	9478.8	10.00	10.96	pg	10	15	
4,4'-DDE	B	8199.8	9038.2	20.00	22.04	pg	10	15	
Endosulfan I	B	8222.2	9016.1	10.00	10.97	pg	10	15	
Dieldrin	B	8235.1	9269.2	20.00	22.51	pg	13	15	
Endrin	B	5967.1	6129.9	20.00	20.55	pg	3	15	
4,4'-DDD	B	6806.2	7476.8	20.00	21.97	pg	10	15	
Endosulfan II	B	6946.3	8031.1	20.00	23.12	pg	**16**	15	c+ ***
4,4'-DDT	B	6473.3	6350.1	20.00	19.62	pg	-2	15	
Methoxychlor	B	2350.0	2473.0	100.0	105.2	pg	5	15	
Endosulfan sulfate	B	6227.7	6717.5	20.00	21.57	pg	8	15	
Endrin ketone	B	7515.1	8480.8	20.00	22.57	pg	13	15	
TCMX	B	8003.4	8967.3	20.00	22.41	pg	12	15	
Decachlorobiphenyl	B	5927.0	6170.5	20.00	20.82	pg	4	15	
Average EPA 8081A	A	(n=22)					4	15	
Average EPA 8081A	B	(n=22)					10	15	

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185622 PEST Water
EPA 8081A

Inst : GC21 Run Name: pest_4 IDF : 1.0
Seqnum : 246124667019 File : 086_019 Time : 27-MAR-2006 19:22
Cal : 246090289001 Caldate : 03-MAR-2006
Standards: S2372

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	13797	14098	20.00	20.44	pg	2	15	
gamma-BHC	A	12747	13164	20.00	20.65	pg	3	15	
beta-BHC	A	5380.5	5423.0	20.00	20.16	pg	1	15	
delta-BHC	A	12658	12990	20.00	20.52	pg	3	15	
Heptachlor	A	10537	11374	20.00	21.59	pg	8	15	
Aldrin	A	11393	11634	20.00	20.42	pg	2	15	
Heptachlor epoxide	A	10353	10313	20.00	19.92	pg	0	15	
gamma-Chlordane	A	10624	10598	20.00	19.95	pg	0	15	
alpha-Chlordane	A	10325	10175	20.00	19.71	pg	-1	15	
4,4'-DDE	A	9658.6	10048	40.00	41.61	pg	4	15	
Endosulfan I	A	9574.3	9890.3	20.00	20.66	pg	3	15	
Dieldrin	A	9695.0	10330	40.00	42.62	pg	7	15	
Endrin	A	7287.0	8010.7	40.00	43.97	pg	10	15	
4,4'-DDD	A	7211.9	7425.1	40.00	41.18	pg	3	15	
Endosulfan II	A	8500.7	8771.8	40.00	41.28	pg	3	15	
4,4'-DDT	A	7064.6	7450.6	40.00	42.19	pg	5	15	
Methoxychlor	A	2698.4	3128.1	200.0	231.9	pg	**16**	15	c+ ***
Endosulfan sulfate	A	6883.8	7238.2	40.00	42.06	pg	5	15	
Endrin ketone	A	7926.5	8518.7	40.00	42.99	pg	7	15	
TCMX	A	8917.4	8825.8	40.00	39.59	pg	-1	15	
Decachlorobiphenyl	A	5651.6	5710.7	40.00	40.42	pg	1	15	
alpha-BHC	B	12135	12094	20.00	19.93	pg	0	15	
gamma-BHC	B	10830	10956	20.00	20.23	pg	1	15	
beta-BHC	B	4922.5	4893.1	20.00	19.88	pg	-1	15	
delta-BHC	B	10256	10266	20.00	20.02	pg	0	15	
Heptachlor	B	9310.0	10570	20.00	22.71	pg	14	15	
Aldrin	B	9758.5	9846.8	20.00	20.18	pg	1	15	
Heptachlor epoxide	B	8676.1	8659.7	20.00	19.96	pg	0	15	
gamma-Chlordane	B	9027.0	8980.2	20.00	19.90	pg	-1	15	
alpha-Chlordane	B	8652.2	8622.9	20.00	19.93	pg	0	15	
4,4'-DDE	B	8199.8	8464.8	40.00	41.29	pg	3	15	
Endosulfan I	B	8222.2	8335.2	20.00	20.27	pg	1	15	
Dieldrin	B	8235.1	8625.4	40.00	41.90	pg	5	15	
Endrin	B	5967.1	6336.4	40.00	42.48	pg	6	15	
4,4'-DDD	B	6806.2	6993.6	40.00	41.10	pg	3	15	
Endosulfan II	B	6946.3	7158.2	40.00	41.22	pg	3	15	
4,4'-DDT	B	6473.3	6209.9	40.00	38.37	pg	-4	15	
Methoxychlor	B	2350.0	2442.5	200.0	207.9	pg	4	15	
Endosulfan sulfate	B	6227.7	6038.4	40.00	38.78	pg	-3	15	
Endrin ketone	B	7515.1	7508.6	40.00	39.97	pg	0	15	
TCMX	B	8003.4	7796.7	40.00	38.97	pg	-3	15	
Decachlorobiphenyl	B	5927.0	5487.4	40.00	37.03	pg	-7	15	
Average EPA 8081A	A	(n=22)					4	15	
Average EPA 8081A	B	(n=22)					3	15	

+=high bias c=CCV

SEQUENCE SUMMARY FOR 185622 PEST Water
Curtis & Tompkins Laboratories

Sequence: 246090289 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 03-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	062_001	X	primer			03-MAR-2006 15:05	1.0							
002	062_002	X	primer			03-MAR-2006 15:22	1.0							
003	062_003	X	primer			03-MAR-2006 15:40	1.0							
004	062_004	X	hex			03-MAR-2006 15:57	1.0							
005	062_005	PEM	pem			03-MAR-2006 16:14	1.0			1			1	
006	062_006	X	hex			03-MAR-2006 16:31	1.0							
007	062_007	ICAL	pest_1			03-MAR-2006 16:49	1.0						2	
008	062_008	ICAL	pest_2			03-MAR-2006 17:06	1.0						3	
009	062_009	ICAL	pest_3			03-MAR-2006 17:23	1.0						4	
010	062_010	ICAL	pest_4			03-MAR-2006 17:41	1.0						5	
011	062_011	ICAL	pest_5			03-MAR-2006 17:58	1.0						6	
012	062_012	ICAL	pest_6			03-MAR-2006 18:15	1.0						7	
013	062_013	ICAL	pest_7			03-MAR-2006 18:33	1.0						8	
014	062_014	X	hex			03-MAR-2006 18:50	1.0							
015	062_015	ICV	icv			03-MAR-2006 19:07	1.0	3		1			9	288
016	062_016	X	icv			03-MAR-2006 19:24	1.0						9	
017	062_017	X	hex			03-MAR-2006 19:42	1.0							

Stds used: 1=S2664 2=S2827 3=S2039 4=S2824 5=S2372 6=S2663 7=S2828 8=S2823 9=S2502

SEQUENCE SUMMARY FOR 185622 PEST Water
Curtis & Tompkins Laboratories

Sequence: 806115774 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 21-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	080_001	X	hex			21-MAR-2006 09:34	1.0							
002	080_002	X	pem			21-MAR-2006 10:03	1.0						1	
003	080_003	X	pest_3			21-MAR-2006 10:32	1.0						2	
004	080_004	X	pest_3			21-MAR-2006 11:36	1.0						2	
005	080_005	X	pest_3			21-MAR-2006 12:04	1.0						2	
006	080_006	X	primer			21-MAR-2006 16:22	1.0							
007	080_007	X	primer			21-MAR-2006 16:51	1.0							
008	080_008	X	primer			21-MAR-2006 17:20	1.0							
009	080_009	X	primer			21-MAR-2006 17:48	1.0							
010	080_010	X	hex			21-MAR-2006 18:17	1.0							
011	080_011	PEM	pem			21-MAR-2006 18:46	1.0			1			3	
012	080_012	X	hex			21-MAR-2006 19:15	1.0							
013	080_013	ICAL	pest_1			21-MAR-2006 19:44	1.0						4	
014	080_014	ICAL	pest_2			21-MAR-2006 20:12	1.0						5	
015	080_015	ICAL	pest_3			21-MAR-2006 20:41	1.0						2	
016	080_016	ICAL	pest_4			21-MAR-2006 21:10	1.0						6	
017	080_017	ICAL	pest_5			21-MAR-2006 21:39	1.0						7	
018	080_018	ICAL	pest_6			21-MAR-2006 22:08	1.0						8	
019	080_019	ICAL	pest_7			21-MAR-2006 22:37	1.0						9	
020	080_020	X	hex			21-MAR-2006 23:05	1.0							
021	080_021	X	icv			21-MAR-2006 23:34	1.0						10	
022	080_022	ICV	icv			22-MAR-2006 00:03	1.0	1		1			10	
023	080_023	X	hex			22-MAR-2006 00:32	1.0							

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Stds used: 1=S2664 2=S2824 3=S2963 4=S2827 5=S2039 6=S2372 7=S2663 8=S2828 9=S2823 10=S2502

SEQUENCE SUMMARY FOR 185622 PEST Water
Curtis & Tompkins Laboratories

Sequence: 806120179 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 24-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	083_001	X	hex			24-MAR-2006 10:59	1.0						
002	083_002	PEM	pem			24-MAR-2006 11:28	1.0	1.0			1	1	
003	083_003	CCV	pest_3			24-MAR-2006 11:57	1.0	1.0			1	2	
004	083_004	X	pest_3			24-MAR-2006 12:26	1.0					2	
005	083_005	X	hex			24-MAR-2006 13:26	1.0						
006	083_006	BLANK	QC332805	111622	Water	24-MAR-2006 16:19	1.0	0.01		1	1		
007	083_007	BS	QC332806	111622	Water	24-MAR-2006 16:48	1.0	0.01	1	1	1		
008	083_008	BSD	QC332807	111622	Water	24-MAR-2006 17:17	1.0	0.01	1	1	1		
009	083_009	SAMPLE	185690-001	111622	Water	24-MAR-2006 17:45	5.0	0.009434			1		
010	083_010	SAMPLE	185622-003	111622	Water	24-MAR-2006 18:14	1.0	0.009434			1		
011	083_011	SAMPLE	185622-004	111622	Water	24-MAR-2006 18:43	1.0	0.009524			1		
012	083_012	SAMPLE	185622-005	111622	Water	24-MAR-2006 19:12	1.0	0.009524			1		
013	083_013	SAMPLE	185622-006	111622	Water	24-MAR-2006 19:41	1.0	0.009615		1	1		
014	083_014	SAMPLE	185622-020	111622	Water	24-MAR-2006 20:09	1.0	0.009615		2	1		
015	083_015	SAMPLE	185622-021	111622	Water	24-MAR-2006 20:38	1.0	0.009901		2	1		290
016	083_016	X	hex			24-MAR-2006 21:07	1.0						
017	083_017	PEM	pem			24-MAR-2006 21:36	1.0	1.0			1	1	
018	083_018	CCV	pest_4			24-MAR-2006 22:04	1.0	1.0	1		1	3	
019	083_019	X	pest_4			24-MAR-2006 22:33	1.0					3	
020	083_020	X	pem			24-MAR-2006 23:02	1.0					1	
021	083_021	X	hex			24-MAR-2006 23:31	1.0						
022	083_022	SAMPLE	185622-022	111622	Water	25-MAR-2006 00:00	1.0	0.009709		2	1		
023	083_023	SAMPLE	185622-024	111622	Water	25-MAR-2006 00:29	1.0	0.009901			1		
024	083_024	SAMPLE	185622-025	111622	Water	25-MAR-2006 00:57	1.0	0.009709		2	1		
025	083_025	SAMPLE	185622-026	111622	Water	25-MAR-2006 01:26	1.0	0.009709		3	1	2:BHCBET=597.536	
026	083_026	SAMPLE	185622-027	111622	Water	25-MAR-2006 01:55	1.0	0.009709		1	1		
027	083_027	X	hex			25-MAR-2006 02:24	1.0						
028	083_028	PEM	pem			25-MAR-2006 02:52	1.0	1.0			1	1	
029	083_029	CCV	pest_5			25-MAR-2006 03:21	1.0	1.0			1	4	
030	083_030	X	pest_5			25-MAR-2006 03:50	1.0					4	
031	083_031	X	pem			25-MAR-2006 04:19	1.0					1	

Stds used: 1=S2963 2=S2824 3=S2372 4=S2663

SEQUENCE SUMMARY FOR 185622 PEST Water
Curtis & Tompkins Laboratories

Sequence: 806120179 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 24-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	083_032	X	hex			25-MAR-2006 04:48	1.0					

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Stds used: 1=S2963 2=S2824 3=S2372 4=S2663

SEQUENCE SUMMARY FOR 185622 PEST Water
Curtis & Tompkins Laboratories

Sequence: 246124667 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 27-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	086_001	X	hex			27-MAR-2006 12:37	1.0						
002	086_002	X	pem			27-MAR-2006 12:54	1.0						
003	086_003	X	pest_3			27-MAR-2006 13:11	1.0					1	
004	086_004	X	pest_3			27-MAR-2006 13:28	1.0					2	
005	086_005	CCV	pest_3			27-MAR-2006 13:47	1.0	1.0	2		1	2	
006	086_006	PEM	pem			27-MAR-2006 14:11	1.0	1.0			1	1	
007	086_007	X	hex			27-MAR-2006 14:29	1.0						
008	086_008	BLANK	QC332987	111666	Water	27-MAR-2006 16:12	1.0	0.01			1		
009	086_009	BS	QC332988	111666	Water	27-MAR-2006 16:29	1.0	0.01	3	2	1		
010	086_010	BSD	QC332989	111666	Water	27-MAR-2006 16:47	1.0	0.01	3		1		
011	086_011	SAMPLE	185622-030	111666	Water	27-MAR-2006 17:04	1.0	0.009524			1		
012	086_012	SAMPLE	185622-033	111666	Water	27-MAR-2006 17:21	1.0	0.009524			1		
013	086_013	SAMPLE	185622-034	111666	Water	27-MAR-2006 17:38	1.0	0.009434			1		
014	086_014	SAMPLE	185622-035	111666	Water	27-MAR-2006 17:55	1.0	0.009615			1		
015	086_015	SAMPLE	185622-036	111666	Water	27-MAR-2006 18:13	1.0	0.009434		3	1		292
016	086_016	SAMPLE	185622-037	111666	Water	27-MAR-2006 18:30	1.0	0.009434		2	1		
017	086_017	X	hex			27-MAR-2006 18:47	1.0						
018	086_018	PEM	pem			27-MAR-2006 19:04	1.0	1.0			1	1	
019	086_019	CCV	pest_4			27-MAR-2006 19:22	1.0	1.0	1		1	3	
020	086_020	X	pest_4			27-MAR-2006 19:39	1.0					3	
021	086_021	X	pem			27-MAR-2006 19:56	1.0					1	
022	086_022	X	toxaphene			27-MAR-2006 20:13	1.0					4	
023	086_023	CCV	toxaphene			27-MAR-2006 20:30	1.0	1.0			1	4	
024	086_024	X	hex			27-MAR-2006 20:48	1.0						
025	086_025	SAMPLE	185699-004	111620	Soil	27-MAR-2006 21:05	10.0	0.6645			1		
026	086_026	SAMPLE	185699-007	111620	Soil	27-MAR-2006 21:22	10.0	0.6745			1		
027	086_027	X	hex			27-MAR-2006 21:40	1.0						
028	086_028	PEM	pem			27-MAR-2006 21:57	1.0	1.0			1	1	
029	086_029	CCV	pest_5			27-MAR-2006 22:14	1.0	1.0	1		1	5	
030	086_030	X	pest_5			27-MAR-2006 22:31	1.0					5	
031	086_031	X	pem			27-MAR-2006 22:48	1.0					1	

Stds used: 1=S2963 2=S2824 3=S2372 4=S2633 5=S2663

SEQUENCE SUMMARY FOR 185622 PEST Water
Curtis & Tompkins Laboratories

Sequence: 246124667 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 27-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	086_032	CCV	toxaphene			27-MAR-2006 23:06	1.0	1.0		1	4	
033	086_033	X	toxaphene			27-MAR-2006 23:23	1.0				4	
034	086_034	X	hex			27-MAR-2006 23:40	1.0					

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Stds used: 1=S2963 2=S2824 3=S2372 4=S2633 5=S2663

REPORTING SUMMARY FOR 185622 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185622-003	alpha-BHC	GC23	B	03/24/06 18:14
185622-003	beta-BHC	GC23	B	03/24/06 18:14
185622-003	gamma-BHC	GC23	B	03/24/06 18:14
185622-003	delta-BHC	GC23	B	03/24/06 18:14
185622-003	Heptachlor	GC23	B	03/24/06 18:14
185622-003	Aldrin	GC23	B	03/24/06 18:14
185622-003	Heptachlor epoxide	GC23	B	03/24/06 18:14
185622-003	Endosulfan I	GC23	B	03/24/06 18:14
185622-003	Dieldrin	GC23	B	03/24/06 18:14
185622-003	4,4'-DDE	GC23	B	03/24/06 18:14
185622-003	Endrin	GC23	B	03/24/06 18:14
185622-003	Endosulfan II	GC23	B	03/24/06 18:14
185622-003	Endosulfan sulfate	GC23	B	03/24/06 18:14
185622-003	4,4'-DDD	GC23	B	03/24/06 18:14
185622-003	4,4'-DDT	GC23	B	03/24/06 18:14
185622-003	alpha-Chlordane	GC23	B	03/24/06 18:14
185622-003	gamma-Chlordane	GC23	B	03/24/06 18:14
185622-003	Methoxychlor	GC23	B	03/24/06 18:14
185622-003	Endrin ketone	GC23	B	03/24/06 18:14
185622-003	Toxaphene	GC23	A	03/24/06 18:14
185622-003	TCMX	GC23	B	03/24/06 18:14
185622-003	Decachlorobiphenyl	GC23	B	03/24/06 18:14
185622-004	alpha-BHC	GC23	B	03/24/06 18:43
185622-004	beta-BHC	GC23	B	03/24/06 18:43
185622-004	gamma-BHC	GC23	B	03/24/06 18:43
185622-004	delta-BHC	GC23	B	03/24/06 18:43
185622-004	Heptachlor	GC23	B	03/24/06 18:43
185622-004	Aldrin	GC23	B	03/24/06 18:43
185622-004	Heptachlor epoxide	GC23	B	03/24/06 18:43
185622-004	Endosulfan I	GC23	B	03/24/06 18:43
185622-004	Dieldrin	GC23	B	03/24/06 18:43
185622-004	4,4'-DDE	GC23	B	03/24/06 18:43
185622-004	Endrin	GC23	B	03/24/06 18:43
185622-004	Endosulfan II	GC23	B	03/24/06 18:43
185622-004	Endosulfan sulfate	GC23	B	03/24/06 18:43
185622-004	4,4'-DDD	GC23	B	03/24/06 18:43
185622-004	4,4'-DDT	GC23	B	03/24/06 18:43
185622-004	alpha-Chlordane	GC23	B	03/24/06 18:43
185622-004	gamma-Chlordane	GC23	B	03/24/06 18:43
185622-004	Methoxychlor	GC23	B	03/24/06 18:43
185622-004	Endrin ketone	GC23	B	03/24/06 18:43
185622-004	Toxaphene	GC23	A	03/24/06 18:43
185622-004	TCMX	GC23	B	03/24/06 18:43
185622-004	Decachlorobiphenyl	GC23	B	03/24/06 18:43
185622-005	alpha-BHC	GC23	B	03/24/06 19:12
185622-005	beta-BHC	GC23	B	03/24/06 19:12
185622-005	gamma-BHC	GC23	B	03/24/06 19:12
185622-005	delta-BHC	GC23	B	03/24/06 19:12
185622-005	Heptachlor	GC23	B	03/24/06 19:12
185622-005	Aldrin	GC23	B	03/24/06 19:12
185622-005	Heptachlor epoxide	GC23	B	03/24/06 19:12
185622-005	Endosulfan I	GC23	B	03/24/06 19:12

REPORTING SUMMARY FOR 185622 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185622-005	Dieldrin	GC23	B	03/24/06 19:12
185622-005	4,4'-DDE	GC23	B	03/24/06 19:12
185622-005	Endrin	GC23	B	03/24/06 19:12
185622-005	Endosulfan II	GC23	B	03/24/06 19:12
185622-005	Endosulfan sulfate	GC23	B	03/24/06 19:12
185622-005	4,4'-DDD	GC23	B	03/24/06 19:12
185622-005	4,4'-DDT	GC23	B	03/24/06 19:12
185622-005	alpha-Chlordane	GC23	B	03/24/06 19:12
185622-005	gamma-Chlordane	GC23	B	03/24/06 19:12
185622-005	Methoxychlor	GC23	B	03/24/06 19:12
185622-005	Endrin ketone	GC23	B	03/24/06 19:12
185622-005	Toxaphene	GC23	A	03/24/06 19:12
185622-005	TCMX	GC23	B	03/24/06 19:12
185622-005	Decachlorobiphenyl	GC23	B	03/24/06 19:12
185622-006	alpha-BHC	GC23	B	03/24/06 19:41
185622-006	beta-BHC	GC23	B	03/24/06 19:41
185622-006	gamma-BHC	GC23	B	03/24/06 19:41
185622-006	delta-BHC	GC23	B	03/24/06 19:41
185622-006	Heptachlor	GC23	B	03/24/06 19:41
185622-006	Aldrin	GC23	B	03/24/06 19:41
185622-006	Heptachlor epoxide	GC23	B	03/24/06 19:41
185622-006	Endosulfan I	GC23	B	03/24/06 19:41
185622-006	Dieldrin	GC23	B	03/24/06 19:41
185622-006	4,4'-DDE	GC23	B	03/24/06 19:41
185622-006	Endrin	GC23	B	03/24/06 19:41
185622-006	Endosulfan II	GC23	B	03/24/06 19:41
185622-006	Endosulfan sulfate	GC23	B	03/24/06 19:41
185622-006	4,4'-DDD	GC23	B	03/24/06 19:41
185622-006	4,4'-DDT	GC23	B	03/24/06 19:41
185622-006	alpha-Chlordane	GC23	B	03/24/06 19:41
185622-006	gamma-Chlordane	GC23	B	03/24/06 19:41
185622-006	Methoxychlor	GC23	B	03/24/06 19:41
185622-006	Endrin ketone	GC23	B	03/24/06 19:41
185622-006	Toxaphene	GC23	A	03/24/06 19:41
185622-006	TCMX	GC23	B	03/24/06 19:41
185622-006	Decachlorobiphenyl	GC23	B	03/24/06 19:41
185622-020	alpha-BHC	GC23	B	03/24/06 20:09
185622-020	beta-BHC	GC23	B	03/24/06 20:09
185622-020	gamma-BHC	GC23	B	03/24/06 20:09
185622-020	delta-BHC	GC23	B	03/24/06 20:09
185622-020	Heptachlor	GC23	B	03/24/06 20:09
185622-020	Aldrin	GC23	B	03/24/06 20:09
185622-020	Heptachlor epoxide	GC23	B	03/24/06 20:09
185622-020	Endosulfan I	GC23	B	03/24/06 20:09
185622-020	Dieldrin	GC23	B	03/24/06 20:09
185622-020	4,4'-DDE	GC23	B	03/24/06 20:09
185622-020	Endrin	GC23	B	03/24/06 20:09
185622-020	Endosulfan II	GC23	B	03/24/06 20:09
185622-020	Endosulfan sulfate	GC23	B	03/24/06 20:09
185622-020	4,4'-DDD	GC23	B	03/24/06 20:09
185622-020	4,4'-DDT	GC23	B	03/24/06 20:09
185622-020	alpha-Chlordane	GC23	B	03/24/06 20:09

REPORTING SUMMARY FOR 185622 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185622-020	gamma-Chlordane	GC23	B	03/24/06 20:09
185622-020	Methoxychlor	GC23	B	03/24/06 20:09
185622-020	Endrin ketone	GC23	B	03/24/06 20:09
185622-020	Toxaphene	GC23	A	03/24/06 20:09
185622-020	TCMX	GC23	B	03/24/06 20:09
185622-020	Decachlorobiphenyl	GC23	B	03/24/06 20:09
185622-021	alpha-BHC	GC23	B	03/24/06 20:38
185622-021	beta-BHC	GC23	B	03/24/06 20:38
185622-021	gamma-BHC	GC23	B	03/24/06 20:38
185622-021	delta-BHC	GC23	B	03/24/06 20:38
185622-021	Heptachlor	GC23	B	03/24/06 20:38
185622-021	Aldrin	GC23	B	03/24/06 20:38
185622-021	Heptachlor epoxide	GC23	B	03/24/06 20:38
185622-021	Endosulfan I	GC23	B	03/24/06 20:38
185622-021	Dieldrin	GC23	B	03/24/06 20:38
185622-021	4,4'-DDE	GC23	B	03/24/06 20:38
185622-021	Endrin	GC23	B	03/24/06 20:38
185622-021	Endosulfan II	GC23	B	03/24/06 20:38
185622-021	Endosulfan sulfate	GC23	B	03/24/06 20:38
185622-021	4,4'-DDD	GC23	B	03/24/06 20:38
185622-021	4,4'-DDT	GC23	B	03/24/06 20:38
185622-021	alpha-Chlordane	GC23	B	03/24/06 20:38
185622-021	gamma-Chlordane	GC23	B	03/24/06 20:38
185622-021	Methoxychlor	GC23	B	03/24/06 20:38
185622-021	Endrin ketone	GC23	B	03/24/06 20:38
185622-021	Toxaphene	GC23	A	03/24/06 20:38
185622-021	TCMX	GC23	B	03/24/06 20:38
185622-021	Decachlorobiphenyl	GC23	B	03/24/06 20:38
185622-022	alpha-BHC	GC23	B	03/25/06 00:00
185622-022	beta-BHC	GC23	B	03/25/06 00:00
185622-022	gamma-BHC	GC23	B	03/25/06 00:00
185622-022	delta-BHC	GC23	B	03/25/06 00:00
185622-022	Heptachlor	GC23	B	03/25/06 00:00
185622-022	Aldrin	GC23	B	03/25/06 00:00
185622-022	Heptachlor epoxide	GC23	B	03/25/06 00:00
185622-022	Endosulfan I	GC23	B	03/25/06 00:00
185622-022	Dieldrin	GC23	B	03/25/06 00:00
185622-022	4,4'-DDE	GC23	B	03/25/06 00:00
185622-022	Endrin	GC23	B	03/25/06 00:00
185622-022	Endosulfan II	GC23	B	03/25/06 00:00
185622-022	Endosulfan sulfate	GC23	B	03/25/06 00:00
185622-022	4,4'-DDD	GC23	B	03/25/06 00:00
185622-022	4,4'-DDT	GC23	B	03/25/06 00:00
185622-022	alpha-Chlordane	GC23	B	03/25/06 00:00
185622-022	gamma-Chlordane	GC23	B	03/25/06 00:00
185622-022	Methoxychlor	GC23	B	03/25/06 00:00
185622-022	Endrin ketone	GC23	B	03/25/06 00:00
185622-022	Toxaphene	GC23	A	03/25/06 00:00
185622-022	TCMX	GC23	B	03/25/06 00:00
185622-022	Decachlorobiphenyl	GC23	B	03/25/06 00:00
185622-024	alpha-BHC	GC23	B	03/25/06 00:29

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Sample ID	Analyte	Inst ID	Ch	Date & Time
185622-024	beta-BHC	GC23	B	03/25/06 00:29
185622-024	gamma-BHC	GC23	B	03/25/06 00:29
185622-024	delta-BHC	GC23	B	03/25/06 00:29
185622-024	Heptachlor	GC23	B	03/25/06 00:29
185622-024	Aldrin	GC23	B	03/25/06 00:29
185622-024	Heptachlor epoxide	GC23	B	03/25/06 00:29
185622-024	Endosulfan I	GC23	B	03/25/06 00:29
185622-024	Dieldrin	GC23	B	03/25/06 00:29
185622-024	4,4'-DDE	GC23	B	03/25/06 00:29
185622-024	Endrin	GC23	B	03/25/06 00:29
185622-024	Endosulfan II	GC23	B	03/25/06 00:29
185622-024	Endosulfan sulfate	GC23	B	03/25/06 00:29
185622-024	4,4'-DDD	GC23	B	03/25/06 00:29
185622-024	4,4'-DDT	GC23	B	03/25/06 00:29
185622-024	alpha-Chlordane	GC23	B	03/25/06 00:29
185622-024	gamma-Chlordane	GC23	B	03/25/06 00:29
185622-024	Methoxychlor	GC23	B	03/25/06 00:29
185622-024	Endrin ketone	GC23	B	03/25/06 00:29
185622-024	Toxaphene	GC23	A	03/25/06 00:29
185622-024	TCMX	GC23	B	03/25/06 00:29
185622-024	Decachlorobiphenyl	GC23	B	03/25/06 00:29
185622-025	alpha-BHC	GC23	B	03/25/06 00:57
185622-025	beta-BHC	GC23	B	03/25/06 00:57
185622-025	gamma-BHC	GC23	B	03/25/06 00:57
185622-025	delta-BHC	GC23	B	03/25/06 00:57
185622-025	Heptachlor	GC23	B	03/25/06 00:57
185622-025	Aldrin	GC23	B	03/25/06 00:57
185622-025	Heptachlor epoxide	GC23	B	03/25/06 00:57
185622-025	Endosulfan I	GC23	B	03/25/06 00:57
185622-025	Dieldrin	GC23	B	03/25/06 00:57
185622-025	4,4'-DDE	GC23	B	03/25/06 00:57
185622-025	Endrin	GC23	B	03/25/06 00:57
185622-025	Endosulfan II	GC23	B	03/25/06 00:57
185622-025	Endosulfan sulfate	GC23	B	03/25/06 00:57
185622-025	4,4'-DDD	GC23	B	03/25/06 00:57
185622-025	4,4'-DDT	GC23	B	03/25/06 00:57
185622-025	alpha-Chlordane	GC23	B	03/25/06 00:57
185622-025	gamma-Chlordane	GC23	B	03/25/06 00:57
185622-025	Methoxychlor	GC23	B	03/25/06 00:57
185622-025	Endrin ketone	GC23	B	03/25/06 00:57
185622-025	Toxaphene	GC23	A	03/25/06 00:57
185622-025	TCMX	GC23	B	03/25/06 00:57
185622-025	Decachlorobiphenyl	GC23	B	03/25/06 00:57
185622-026	alpha-BHC	GC23	B	03/25/06 01:26
185622-026	beta-BHC	GC23	B	03/25/06 01:26
185622-026	gamma-BHC	GC23	B	03/25/06 01:26
185622-026	delta-BHC	GC23	B	03/25/06 01:26
185622-026	Heptachlor	GC23	B	03/25/06 01:26
185622-026	Aldrin	GC23	B	03/25/06 01:26
185622-026	Heptachlor epoxide	GC23	B	03/25/06 01:26
185622-026	Endosulfan I	GC23	B	03/25/06 01:26
185622-026	Dieldrin	GC23	B	03/25/06 01:26

REPORTING SUMMARY FOR 185622 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185622-026	4,4'-DDE	GC23	B	03/25/06 01:26
185622-026	Endrin	GC23	B	03/25/06 01:26
185622-026	Endosulfan II	GC23	B	03/25/06 01:26
185622-026	Endosulfan sulfate	GC23	B	03/25/06 01:26
185622-026	4,4'-DDD	GC23	A	03/25/06 01:26
185622-026	4,4'-DDT	GC23	B	03/25/06 01:26
185622-026	alpha-Chlordane	GC23	B	03/25/06 01:26
185622-026	gamma-Chlordane	GC23	B	03/25/06 01:26
185622-026	Methoxychlor	GC23	B	03/25/06 01:26
185622-026	Endrin ketone	GC23	B	03/25/06 01:26
185622-026	Toxaphene	GC23	B	03/25/06 01:26
185622-026	TCMX	GC23	A	03/25/06 01:26
185622-026	Decachlorobiphenyl	GC23	A	03/25/06 01:26
185622-027	alpha-BHC	GC23	B	03/25/06 01:55
185622-027	beta-BHC	GC23	B	03/25/06 01:55
185622-027	gamma-BHC	GC23	B	03/25/06 01:55
185622-027	delta-BHC	GC23	B	03/25/06 01:55
185622-027	Heptachlor	GC23	B	03/25/06 01:55
185622-027	Aldrin	GC23	B	03/25/06 01:55
185622-027	Heptachlor epoxide	GC23	B	03/25/06 01:55
185622-027	Endosulfan I	GC23	B	03/25/06 01:55
185622-027	Dieldrin	GC23	B	03/25/06 01:55
185622-027	4,4'-DDE	GC23	B	03/25/06 01:55
185622-027	Endrin	GC23	B	03/25/06 01:55
185622-027	Endosulfan II	GC23	B	03/25/06 01:55
185622-027	Endosulfan sulfate	GC23	B	03/25/06 01:55
185622-027	4,4'-DDD	GC23	B	03/25/06 01:55
185622-027	4,4'-DDT	GC23	B	03/25/06 01:55
185622-027	alpha-Chlordane	GC23	B	03/25/06 01:55
185622-027	gamma-Chlordane	GC23	B	03/25/06 01:55
185622-027	Methoxychlor	GC23	B	03/25/06 01:55
185622-027	Endrin ketone	GC23	B	03/25/06 01:55
185622-027	Toxaphene	GC23	A	03/25/06 01:55
185622-027	TCMX	GC23	B	03/25/06 01:55
185622-027	Decachlorobiphenyl	GC23	B	03/25/06 01:55
185622-030	alpha-BHC	GC21	A	03/27/06 17:04
185622-030	beta-BHC	GC21	A	03/27/06 17:04
185622-030	gamma-BHC	GC21	A	03/27/06 17:04
185622-030	delta-BHC	GC21	A	03/27/06 17:04
185622-030	Heptachlor	GC21	A	03/27/06 17:04
185622-030	Aldrin	GC21	A	03/27/06 17:04
185622-030	Heptachlor epoxide	GC21	A	03/27/06 17:04
185622-030	Endosulfan I	GC21	A	03/27/06 17:04
185622-030	Dieldrin	GC21	A	03/27/06 17:04
185622-030	4,4'-DDE	GC21	A	03/27/06 17:04
185622-030	Endrin	GC21	A	03/27/06 17:04
185622-030	Endosulfan II	GC21	A	03/27/06 17:04
185622-030	Endosulfan sulfate	GC21	A	03/27/06 17:04
185622-030	4,4'-DDD	GC21	A	03/27/06 17:04
185622-030	4,4'-DDT	GC21	A	03/27/06 17:04
185622-030	alpha-Chlordane	GC21	A	03/27/06 17:04
185622-030	gamma-Chlordane	GC21	A	03/27/06 17:04

REPORTING SUMMARY FOR 185622 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185622-030	Methoxychlor	GC21	A	03/27/06 17:04
185622-030	Endrin ketone	GC21	A	03/27/06 17:04
185622-030	Toxaphene	GC21	A	03/27/06 17:04
185622-030	TCMX	GC21	A	03/27/06 17:04
185622-030	Decachlorobiphenyl	GC21	A	03/27/06 17:04
185622-033	alpha-BHC	GC21	A	03/27/06 17:21
185622-033	beta-BHC	GC21	A	03/27/06 17:21
185622-033	gamma-BHC	GC21	A	03/27/06 17:21
185622-033	delta-BHC	GC21	A	03/27/06 17:21
185622-033	Heptachlor	GC21	A	03/27/06 17:21
185622-033	Aldrin	GC21	A	03/27/06 17:21
185622-033	Heptachlor epoxide	GC21	A	03/27/06 17:21
185622-033	Endosulfan I	GC21	A	03/27/06 17:21
185622-033	Dieldrin	GC21	A	03/27/06 17:21
185622-033	4,4'-DDE	GC21	A	03/27/06 17:21
185622-033	Endrin	GC21	A	03/27/06 17:21
185622-033	Endosulfan II	GC21	A	03/27/06 17:21
185622-033	Endosulfan sulfate	GC21	A	03/27/06 17:21
185622-033	4,4'-DDD	GC21	A	03/27/06 17:21
185622-033	4,4'-DDT	GC21	A	03/27/06 17:21
185622-033	alpha-Chlordane	GC21	A	03/27/06 17:21
185622-033	gamma-Chlordane	GC21	A	03/27/06 17:21
185622-033	Methoxychlor	GC21	A	03/27/06 17:21
185622-033	Endrin ketone	GC21	A	03/27/06 17:21
185622-033	Toxaphene	GC21	A	03/27/06 17:21
185622-033	TCMX	GC21	A	03/27/06 17:21
185622-033	Decachlorobiphenyl	GC21	A	03/27/06 17:21
185622-034	alpha-BHC	GC21	A	03/27/06 17:38
185622-034	beta-BHC	GC21	A	03/27/06 17:38
185622-034	gamma-BHC	GC21	A	03/27/06 17:38
185622-034	delta-BHC	GC21	A	03/27/06 17:38
185622-034	Heptachlor	GC21	A	03/27/06 17:38
185622-034	Aldrin	GC21	A	03/27/06 17:38
185622-034	Heptachlor epoxide	GC21	A	03/27/06 17:38
185622-034	Endosulfan I	GC21	A	03/27/06 17:38
185622-034	Dieldrin	GC21	A	03/27/06 17:38
185622-034	4,4'-DDE	GC21	A	03/27/06 17:38
185622-034	Endrin	GC21	A	03/27/06 17:38
185622-034	Endosulfan II	GC21	A	03/27/06 17:38
185622-034	Endosulfan sulfate	GC21	A	03/27/06 17:38
185622-034	4,4'-DDD	GC21	A	03/27/06 17:38
185622-034	4,4'-DDT	GC21	A	03/27/06 17:38
185622-034	alpha-Chlordane	GC21	A	03/27/06 17:38
185622-034	gamma-Chlordane	GC21	A	03/27/06 17:38
185622-034	Methoxychlor	GC21	A	03/27/06 17:38
185622-034	Endrin ketone	GC21	A	03/27/06 17:38
185622-034	Toxaphene	GC21	A	03/27/06 17:38
185622-034	TCMX	GC21	A	03/27/06 17:38
185622-034	Decachlorobiphenyl	GC21	A	03/27/06 17:38
185622-035	alpha-BHC	GC21	A	03/27/06 17:55
185622-035	beta-BHC	GC21	A	03/27/06 17:55

REPORTING SUMMARY FOR 185622 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185622-035	gamma-BHC	GC21	A	03/27/06 17:55
185622-035	delta-BHC	GC21	A	03/27/06 17:55
185622-035	Heptachlor	GC21	A	03/27/06 17:55
185622-035	Aldrin	GC21	A	03/27/06 17:55
185622-035	Heptachlor epoxide	GC21	A	03/27/06 17:55
185622-035	Endosulfan I	GC21	A	03/27/06 17:55
185622-035	Dieldrin	GC21	A	03/27/06 17:55
185622-035	4,4'-DDE	GC21	A	03/27/06 17:55
185622-035	Endrin	GC21	A	03/27/06 17:55
185622-035	Endosulfan II	GC21	A	03/27/06 17:55
185622-035	Endosulfan sulfate	GC21	A	03/27/06 17:55
185622-035	4,4'-DDD	GC21	A	03/27/06 17:55
185622-035	4,4'-DDT	GC21	A	03/27/06 17:55
185622-035	alpha-Chlordane	GC21	A	03/27/06 17:55
185622-035	gamma-Chlordane	GC21	A	03/27/06 17:55
185622-035	Methoxychlor	GC21	A	03/27/06 17:55
185622-035	Endrin ketone	GC21	A	03/27/06 17:55
185622-035	Toxaphene	GC21	A	03/27/06 17:55
185622-035	TCMX	GC21	A	03/27/06 17:55
185622-035	Decachlorobiphenyl	GC21	A	03/27/06 17:55
185622-036	alpha-BHC	GC21	A	03/27/06 18:13
185622-036	beta-BHC	GC21	A	03/27/06 18:13
185622-036	gamma-BHC	GC21	A	03/27/06 18:13
185622-036	delta-BHC	GC21	A	03/27/06 18:13
185622-036	Heptachlor	GC21	A	03/27/06 18:13
185622-036	Aldrin	GC21	A	03/27/06 18:13
185622-036	Heptachlor epoxide	GC21	A	03/27/06 18:13
185622-036	Endosulfan I	GC21	A	03/27/06 18:13
185622-036	Dieldrin	GC21	A	03/27/06 18:13
185622-036	4,4'-DDE	GC21	A	03/27/06 18:13
185622-036	Endrin	GC21	A	03/27/06 18:13
185622-036	Endosulfan II	GC21	A	03/27/06 18:13
185622-036	Endosulfan sulfate	GC21	A	03/27/06 18:13
185622-036	4,4'-DDD	GC21	A	03/27/06 18:13
185622-036	4,4'-DDT	GC21	A	03/27/06 18:13
185622-036	alpha-Chlordane	GC21	A	03/27/06 18:13
185622-036	gamma-Chlordane	GC21	A	03/27/06 18:13
185622-036	Methoxychlor	GC21	A	03/27/06 18:13
185622-036	Endrin ketone	GC21	A	03/27/06 18:13
185622-036	Toxaphene	GC21	A	03/27/06 18:13
185622-036	TCMX	GC21	B	03/27/06 18:13
185622-036	Decachlorobiphenyl	GC21	B	03/27/06 18:13
185622-037	alpha-BHC	GC21	A	03/27/06 18:30
185622-037	beta-BHC	GC21	A	03/27/06 18:30
185622-037	gamma-BHC	GC21	A	03/27/06 18:30
185622-037	delta-BHC	GC21	A	03/27/06 18:30
185622-037	Heptachlor	GC21	A	03/27/06 18:30
185622-037	Aldrin	GC21	A	03/27/06 18:30
185622-037	Heptachlor epoxide	GC21	A	03/27/06 18:30
185622-037	Endosulfan I	GC21	A	03/27/06 18:30
185622-037	Dieldrin	GC21	A	03/27/06 18:30
185622-037	4,4'-DDE	GC21	A	03/27/06 18:30

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Sample ID	Analyte	Inst ID	Ch	Date & Time
185622-037	Endrin	GC21	A	03/27/06 18:30
185622-037	Endosulfan II	GC21	A	03/27/06 18:30
185622-037	Endosulfan sulfate	GC21	A	03/27/06 18:30
185622-037	4,4'-DDD	GC21	A	03/27/06 18:30
185622-037	4,4'-DDT	GC21	A	03/27/06 18:30
185622-037	alpha-Chlordane	GC21	A	03/27/06 18:30
185622-037	gamma-Chlordane	GC21	A	03/27/06 18:30
185622-037	Methoxychlor	GC21	A	03/27/06 18:30
185622-037	Endrin ketone	GC21	A	03/27/06 18:30
185622-037	Toxaphene	GC21	A	03/27/06 18:30
185622-037	TCMX	GC21	A	03/27/06 18:30
185622-037	Decachlorobiphenyl	GC21	A	03/27/06 18:30
QC332805	alpha-BHC	GC23	B	03/24/06 16:19
QC332805	beta-BHC	GC23	B	03/24/06 16:19
QC332805	gamma-BHC	GC23	B	03/24/06 16:19
QC332805	delta-BHC	GC23	B	03/24/06 16:19
QC332805	Heptachlor	GC23	B	03/24/06 16:19
QC332805	Aldrin	GC23	B	03/24/06 16:19
QC332805	Heptachlor epoxide	GC23	B	03/24/06 16:19
QC332805	Endosulfan I	GC23	B	03/24/06 16:19
QC332805	Dieldrin	GC23	B	03/24/06 16:19
QC332805	4,4'-DDE	GC23	B	03/24/06 16:19
QC332805	Endrin	GC23	B	03/24/06 16:19
QC332805	Endosulfan II	GC23	B	03/24/06 16:19
QC332805	Endosulfan sulfate	GC23	B	03/24/06 16:19
QC332805	4,4'-DDD	GC23	B	03/24/06 16:19
QC332805	4,4'-DDT	GC23	B	03/24/06 16:19
QC332805	alpha-Chlordane	GC23	B	03/24/06 16:19
QC332805	gamma-Chlordane	GC23	B	03/24/06 16:19
QC332805	Methoxychlor	GC23	B	03/24/06 16:19
QC332805	Endrin ketone	GC23	B	03/24/06 16:19
QC332805	Toxaphene	GC23	B	03/24/06 16:19
QC332805	TCMX	GC23	A	03/24/06 16:19
QC332805	Decachlorobiphenyl	GC23	A	03/24/06 16:19
QC332806	gamma-BHC	GC23	B	03/24/06 16:48
QC332806	Heptachlor	GC23	B	03/24/06 16:48
QC332806	Aldrin	GC23	B	03/24/06 16:48
QC332806	Dieldrin	GC23	B	03/24/06 16:48
QC332806	Endrin	GC23	B	03/24/06 16:48
QC332806	4,4'-DDT	GC23	B	03/24/06 16:48
QC332806	TCMX	GC23	B	03/24/06 16:48
QC332806	Decachlorobiphenyl	GC23	B	03/24/06 16:48
QC332807	gamma-BHC	GC23	B	03/24/06 17:17
QC332807	Heptachlor	GC23	B	03/24/06 17:17
QC332807	Aldrin	GC23	B	03/24/06 17:17
QC332807	Dieldrin	GC23	B	03/24/06 17:17
QC332807	Endrin	GC23	B	03/24/06 17:17
QC332807	4,4'-DDT	GC23	B	03/24/06 17:17
QC332807	TCMX	GC23	B	03/24/06 17:17
QC332807	Decachlorobiphenyl	GC23	B	03/24/06 17:17

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Sample ID	Analyte	Inst ID	Ch	Date & Time
QC332987	alpha-BHC	GC21	A	03/27/06 16:12
QC332987	beta-BHC	GC21	A	03/27/06 16:12
QC332987	gamma-BHC	GC21	A	03/27/06 16:12
QC332987	delta-BHC	GC21	A	03/27/06 16:12
QC332987	Heptachlor	GC21	A	03/27/06 16:12
QC332987	Aldrin	GC21	A	03/27/06 16:12
QC332987	Heptachlor epoxide	GC21	A	03/27/06 16:12
QC332987	Endosulfan I	GC21	A	03/27/06 16:12
QC332987	Dieldrin	GC21	A	03/27/06 16:12
QC332987	4,4'-DDE	GC21	A	03/27/06 16:12
QC332987	Endrin	GC21	A	03/27/06 16:12
QC332987	Endosulfan II	GC21	A	03/27/06 16:12
QC332987	Endosulfan sulfate	GC21	A	03/27/06 16:12
QC332987	4,4'-DDD	GC21	A	03/27/06 16:12
QC332987	4,4'-DDT	GC21	A	03/27/06 16:12
QC332987	alpha-Chlordane	GC21	A	03/27/06 16:12
QC332987	gamma-Chlordane	GC21	A	03/27/06 16:12
QC332987	Methoxychlor	GC21	A	03/27/06 16:12
QC332987	Endrin ketone	GC21	A	03/27/06 16:12
QC332987	Toxaphene	GC21	A	03/27/06 16:12
QC332987	TCMX	GC21	A	03/27/06 16:12
QC332987	Decachlorobiphenyl	GC21	A	03/27/06 16:12
QC332988	gamma-BHC	GC21	A	03/27/06 16:29
QC332988	Heptachlor	GC21	A	03/27/06 16:29
QC332988	Aldrin	GC21	A	03/27/06 16:29
QC332988	Dieldrin	GC21	A	03/27/06 16:29
QC332988	Endrin	GC21	A	03/27/06 16:29
QC332988	4,4'-DDT	GC21	A	03/27/06 16:29
QC332988	TCMX	GC21	A	03/27/06 16:29
QC332988	Decachlorobiphenyl	GC21	A	03/27/06 16:29
QC332989	gamma-BHC	GC21	A	03/27/06 16:47
QC332989	Heptachlor	GC21	A	03/27/06 16:47
QC332989	Aldrin	GC21	A	03/27/06 16:47
QC332989	Dieldrin	GC21	A	03/27/06 16:47
QC332989	Endrin	GC21	A	03/27/06 16:47
QC332989	4,4'-DDT	GC21	A	03/27/06 16:47
QC332989	TCMX	GC21	A	03/27/06 16:47
QC332989	Decachlorobiphenyl	GC21	A	03/27/06 16:47

Curtis & Tompkins Laboratories **Sample Preparation Summary** **24-MAR-2006 15:40**

Batch Number : 111622
Date Extracted: 23-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : 8081
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2984A
Spike #2 ID : S2744G
Spike #3 ID :
SOP Version : 8081w_rv14

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185622-003		Treadwell & Rollo	Water	1060	mL	10	0.009434	1	6	.02	0		8081		
185622-004		Treadwell & Rollo	Water	1050	mL	10	0.009524	1	6	.02	0		8081		
185622-005		Treadwell & Rollo	Water	1050	mL	10	0.009524	1	6	.02	0		8081		
185622-006		Treadwell & Rollo	Water	1040	mL	10	0.009615	1	6	.02	0		8081		
185622-020		Treadwell & Rollo	Water	1040	mL	10	0.009615	1	6	.02	0		8081		
185622-021		Treadwell & Rollo	Water	1010	mL	10	0.009901	1	6	.02	0		8081		
185622-022		Treadwell & Rollo	Water	1030	mL	10	0.009709	1	6	.02	0		8081		
185622-024		Treadwell & Rollo	Water	1010	mL	10	0.009901	1	6	.02	0		8081		
185622-025		Treadwell & Rollo	Water	1030	mL	10	0.009709	1	6	.02	0		8081		
185622-026		Treadwell & Rollo	Water	1030	mL	10	0.009709	1	6	.02	0		8081		
185622-027		Treadwell & Rollo	Water	1030	mL	10	0.009709	1	6	.02	0		8081		
185690-001		CH2M Hill Constructors Inc.	Water	1060	mL	10	0.009434	1	6	.02	0		8081		
QC332805	BLANK		Water	1000	mL	10	0.010000	1		.02	0		8081		
QC332806	BS		Water	1000	mL	10	0.010000	1		.02	.025		8081		
QC332807	BSD		Water	1000	mL	10	0.010000	1		.02	.025		8081		

303

Prep Chemist: SAK for JBM Reviewed By: [signature] Date: 3/24/06

Relinquished By: [signature] Received By: [signature] Date: 03/24/06

Curtis & Tompkins, Ltd

8081 WATER PREP LOG

BK2210

LIMS Batch No: 111622
LIMS Analysis: 8081
Extracted by: JDM
Date Extracted: 23 Mar 06

Extraction Method:
- ☐ EPA 3510c sep. funnel
- ☒ EPA 3520c cont. L/L
- ☐ _____

Cleanup Method (if needed):
- ☐ EPA 3640a GPC
- ☐ EPA 3620b Florisil
- ☐ _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185622-003 H	1060	6	10.0		
04 K	1050				
05 J	1050				
06 J	1040				
20 N	1040				
21 J	1010				
22 J	1030				
24 K	1010				
25 M	1030				
26 H					
27 J					
185690-001 F	1060				
MB QC332805	1000	NA			
BS 06					
BSD 07					

SHO 3/24/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.02 mL of surrogate solution was added to all samples	S2964A	JDM 3/23/06
0.025 mL of matrix spike solution was added to all spikes	S2744G	
☒ Samples continuously extracted with about 450 mL of CH_2Cl_2	EM46060	
Extraction Start Time:	1155	
Extraction End Time:	0725	DLM 3/24/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	SHO 3/24/06
Extracts filtered through baked, CH_2Cl_2-rinsed ~~powdered~~ granular Na_2SO_4	EM 45118532	
Exchanged 2x with Hexane	CP 890	
Concentrated: ☒ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Florisil	NA	

Jessie Mee 3/23/06
Extraction Chemist Date

Contined from Page —
Continued on Page _____

Phil D 3/24/06
Reviewed by Date

Curtis & Tompkins Laboratories **Sample Preparation Summary** **26-MAR-2006 15:50**

Batch Number : 111666
Date Extracted: 24-MAR-2006
Extracted by : Sandra Felipe Luna
Prep Method : 3520C

Analysis : 8081
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2984A
Spike #2 ID : S2744G
Spike #3 ID :
SOP Version : 8081w_rv14

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185622-030		Treadwell & Rollo	Water	1050	mL	10	0.009524	1	7	.02	0		8081		
185622-033		Treadwell & Rollo	Water	1050	mL	10	0.009524	1	7	.02	0		8081		
185622-034		Treadwell & Rollo	Water	1060	mL	10	0.009434	1	7	.02	0		8081		
185622-035		Treadwell & Rollo	Water	1040	mL	10	0.009615	1	6	.02	0		8081		
185622-036		Treadwell & Rollo	Water	1060	mL	10	0.009434	1	7	.02	0		8081		
185622-037		Treadwell & Rollo	Water	1060	mL	10	0.009434	1	7	.02	0		8081		
QC332987	BLANK		Water	1000	mL	10	0.010000	1		.02	0		8081		
QC332988	BS		Water	1000	mL	10	0.010000	1		.02	.025		8081		
QC332989	BSD		Water	1000	mL	10	0.010000	1		.02	.025		8081		

Prep Chemist: _____ Reviewed By: _____ Date: 3/27/06

Relinquished By: _____ Received By: _____ Date: 03/27/06

Curtis & Tompkins, Ltd

8081 WATER PREP LOG

BK2210

LIMS Batch No: 111666
LIMS Analysis: 8081
Extracted by: SFL
Date Extracted: 3/24/06

Extraction Method:
- ☐ EPA 3510c sep. funnel
- ☑ EPA 3520c cont. L/L
- ☐ _____

Cleanup Method (if needed):
- ☐ EPA 3640a GPC
- ☐ EPA 3620b Florisil
- ☐ _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
186022-030 K	1050	7	10.0		
-033 I	1050				
-034 J	1060				
-035 K	1040				
-036 K	1060	7			
-037 J	1060				
MB QC 332987	1000	N/A			
BS 88					
BSD 89					

3/24/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.02 mL of surrogate solution was added to all samples	529844	SFL 3/24/06
0.025 mL of matrix spiking solution was added to all spikes	527446	
☑ Samples continuously extracted with about 450 mL of CH_2Cl_2	EM460600	
Extraction Start Time:	1350	
Extraction End Time:	1020	3/25/06 KD
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	N/A	JCM 3/26/06
Extracts filtered through baked, CH_2Cl_2-rinsed ~~powdered~~ granular Na_2SO_4	EM451185632	
Exchanged 2x with Hexane	CP890	
Concentrated: ☑ to volumes as noted above ☐ to clean-up volume	✓	SFL 3/26/06
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Florisil	N/A	

3/24/06

Extraction Chemist **Date**

Contined from Page _____
Continued on Page _____

3/27/06

Reviewed by **Date**

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8081A Water
As of 04/13/06

Analyte	Units	GC21 A	GC21 B	GC16 A	GC16 B	GC23 A	GC23 B
gamma-BHC	ug/L	0.0065	0.0039	0.0032	0.0025	0.0029	0.0039
Heptachlor	ug/L	0.0083	0.0056	0.0057	0.0061	0.0029	0.0055
Aldrin	ug/L	0.0094	0.0070	0.0066	0.0066	0.0062	0.0077
Dieldrin	ug/L	0.011	0.0051	0.0074	0.0070	0.0041	0.0097
Endrin	ug/L	0.012	0.011	0.0095	0.0083	0.0054	0.011
4,4'-DDT	ug/L	0.012	0.0071	0.011	0.0099	0.0088	0.0087
alpha-BHC	ug/L	0.0063	0.0040	0.0029	0.0027	0.0032	0.0049
beta-BHC	ug/L	0.0061	0.011	0.0033	0.0052	0.0029	0.0055
delta-BHC	ug/L	0.0065	0.0023	0.0040	0.0026	0.0018	0.0041
Heptachlor epoxide	ug/L	0.0066	0.0097	0.0033	0.0032	0.0028	0.0044
gamma-Chlordane	ug/L	0.0064	0.011	0.0041	0.0037	0.0020	0.0042
alpha-Chlordane	ug/L	0.010	0.0052	0.0045	0.0036	0.0023	0.0052
Endosulfan I	ug/L	0.0062	0.0033	0.0043	0.0032	0.0026	0.0048
4,4'-DDE	ug/L	0.011	0.0057	0.010	0.0082	0.0045	0.0097
Endosulfan II	ug/L	0.013	0.0077	0.0088	0.0073	0.0066	0.0097
Endosulfan sulfate	ug/L	0.0096	0.0054	0.015	0.0087	0.0054	0.0093
4,4'-DDD	ug/L	0.011	0.0096	0.0088	0.0090	0.0033	0.010
Endrin aldehyde	ug/L	0.010	0.0092	0.0084	0.0086	0.0052	0.0088
Chlordane (Technical)	ug/L	0.26	0.21	0.19	0.19	0.17	0.21
Methoxychlor	ug/L	0.050	0.018	0.057	0.080	0.043	0.051
Endrin ketone	ug/L	0.0083	0.023	0.027	0.0095	0.0051	0.015
Toxaphene	ug/L	0.47	0.32	0.39	0.34	0.54	0.29

PCBs

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Received:	03/17/06

Field ID:	LF08GW02B	Sampled:	03/16/06
Type:	SAMPLE	Prepared:	03/22/06
Lab ID:	185622-003	Analyzed:	03/23/06
Batch#:	111570	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.48
Aroclor-1221	ND	0.95
Aroclor-1232	ND	0.48
Aroclor-1242	ND	0.48
Aroclor-1248	ND	0.48
Aroclor-1254	ND	0.48
Aroclor-1260	ND	0.48

Surrogate	%REC	Limits
TCMX	106	65-135
Decachlorobiphenyl	113	65-135

Field ID:	LF08GW03	Sampled:	03/16/06
Type:	SAMPLE	Prepared:	03/22/06
Lab ID:	185622-004	Analyzed:	03/23/06
Batch#:	111570	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.47
Aroclor-1221	ND	0.94
Aroclor-1232	ND	0.47
Aroclor-1242	ND	0.47
Aroclor-1248	ND	0.47
Aroclor-1254	ND	0.47
Aroclor-1260	ND	0.47

Surrogate	%REC	Limits
TCMX	108	65-135
Decachlorobiphenyl	110	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Received:	03/17/06

Field ID:	LF08GW04	Sampled:	03/16/06
Type:	SAMPLE	Prepared:	03/22/06
Lab ID:	185622-005	Analyzed:	03/23/06
Batch#:	111570	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.48
Aroclor-1221	ND	0.96
Aroclor-1232	ND	0.48
Aroclor-1242	ND	0.48
Aroclor-1248	ND	0.48
Aroclor-1254	ND	0.48
Aroclor-1260	ND	0.48

Surrogate	%REC	Limits
TCMX	115	65-135
Decachlorobiphenyl	119	65-135

Field ID:	DUP0316064A	Sampled:	03/16/06
Type:	SAMPLE	Prepared:	03/22/06
Lab ID:	185622-006	Analyzed:	03/23/06
Batch#:	111570	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.48
Aroclor-1221	ND	0.96
Aroclor-1232	ND	0.48
Aroclor-1242	ND	0.48
Aroclor-1248	ND	0.48
Aroclor-1254	ND	0.48
Aroclor-1260	ND	0.48

Surrogate	%REC	Limits
TCMX	115	65-135
Decachlorobiphenyl	122	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Received:	03/17/06

Field ID:	DAEGW101	Sampled:	03/16/06
Type:	SAMPLE	Prepared:	03/22/06
Lab ID:	185622-020	Analyzed:	03/23/06
Batch#:	111570	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.49
Aroclor-1221	ND	0.97
Aroclor-1232	ND	0.49
Aroclor-1242	ND	0.49
Aroclor-1248	ND	0.49
Aroclor-1254	ND	0.49
Aroclor-1260	ND	0.49

Surrogate	%REC	Limits
TCMX	108	65-135
Decachlorobiphenyl	113	65-135

Field ID:	DAEGW102	Sampled:	03/16/06
Type:	SAMPLE	Prepared:	03/22/06
Lab ID:	185622-021	Analyzed:	03/24/06
Batch#:	111570	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.48
Aroclor-1221	ND	0.96
Aroclor-1232	ND	0.48
Aroclor-1242	ND	0.48
Aroclor-1248	ND	0.48
Aroclor-1254	ND	0.48
Aroclor-1260	ND	0.48

Surrogate	%REC	Limits
TCMX	117	65-135
Decachlorobiphenyl	129	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Received:	03/17/06

Field ID:	DAEGW104	Sampled:	03/16/06
Type:	SAMPLE	Prepared:	03/22/06
Lab ID:	185622-022	Analyzed:	03/24/06
Batch#:	111570	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.48
Aroclor-1221	ND	0.96
Aroclor-1232	ND	0.48
Aroclor-1242	ND	0.48
Aroclor-1248	ND	0.48
Aroclor-1254	ND	0.48
Aroclor-1260	ND	0.48

Surrogate	%REC	Limits
TCMX	109	65-135
Decachlorobiphenyl	113	65-135

Field ID:	1349MW03R	Sampled:	03/16/06
Type:	SAMPLE	Prepared:	03/22/06
Lab ID:	185622-025	Analyzed:	03/24/06
Batch#:	111570	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.49
Aroclor-1221	ND	0.97
Aroclor-1232	ND	0.49
Aroclor-1242	ND	0.49
Aroclor-1248	ND	0.49
Aroclor-1254	ND	0.49
Aroclor-1260	ND	0.49

Surrogate	%REC	Limits
TCMX	110	65-135
Decachlorobiphenyl	114	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Received:	03/17/06

Field ID:	1349MW100	Sampled:	03/16/06
Type:	SAMPLE	Prepared:	03/22/06
Lab ID:	185622-026	Analyzed:	03/24/06
Batch#:	111570	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.49
Aroclor-1221	ND	0.97
Aroclor-1232	ND	0.49
Aroclor-1242	ND	0.49
Aroclor-1248	ND	0.49
Aroclor-1254	ND	0.49
Aroclor-1260	ND	0.49

Surrogate	%REC	Limits
TCMX	96	65-135
Decachlorobiphenyl	124	65-135

Field ID:	1349MW101	Sampled:	03/16/06
Type:	SAMPLE	Prepared:	03/22/06
Lab ID:	185622-027	Analyzed:	03/24/06
Batch#:	111570	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	103	65-135
Decachlorobiphenyl	106	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Received:	03/17/06

Field ID:	LF6GW101	Sampled:	03/17/06
Type:	SAMPLE	Prepared:	03/24/06
Lab ID:	185622-030	Analyzed:	03/27/06
Batch#:	111667	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.49
Aroclor-1221	ND	0.97
Aroclor-1232	ND	0.49
Aroclor-1242	ND	0.49
Aroclor-1248	ND	0.49
Aroclor-1254	ND	0.49
Aroclor-1260	ND	0.49

Surrogate	%REC	Limits
TCMX	83	65-135
Decachlorobiphenyl	39 *	65-135

Field ID:	LF08GW01	Sampled:	03/17/06
Type:	SAMPLE	Prepared:	03/24/06
Lab ID:	185622-033	Analyzed:	03/27/06
Batch#:	111667	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.47
Aroclor-1221	ND	0.94
Aroclor-1232	ND	0.47
Aroclor-1242	ND	0.47
Aroclor-1248	ND	0.47
Aroclor-1254	ND	0.47
Aroclor-1260	ND	0.47

Surrogate	%REC	Limits
TCMX	84	65-135
Decachlorobiphenyl	40 *	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Received:	03/17/06

Field ID:	LF08GW06	Sampled:	03/17/06
Type:	SAMPLE	Prepared:	03/24/06
Lab ID:	185622-034	Analyzed:	03/27/06
Batch#:	111667	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.49
Aroclor-1221	ND	0.97
Aroclor-1232	ND	0.49
Aroclor-1242	ND	0.49
Aroclor-1248	ND	0.49
Aroclor-1254	ND	0.49
Aroclor-1260	ND	0.49

Surrogate	%REC	Limits
TCMX	84	65-135
Decachlorobiphenyl	40 *	65-135

Field ID:	LF08GW06RB01	Sampled:	03/17/06
Type:	SAMPLE	Prepared:	03/24/06
Lab ID:	185622-035	Analyzed:	03/28/06
Batch#:	111667	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.49
Aroclor-1221	ND	0.98
Aroclor-1232	ND	0.49
Aroclor-1242	ND	0.49
Aroclor-1248	ND	0.49
Aroclor-1254	ND	0.49
Aroclor-1260	ND	0.49

Surrogate	%REC	Limits
TCMX	92	65-135
Decachlorobiphenyl	39 *	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Received:	03/17/06

Field ID:	LF6GW100	Sampled:	03/17/06
Type:	SAMPLE	Prepared:	03/24/06
Lab ID:	185622-036	Analyzed:	03/28/06
Batch#:	111667	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.47
Aroclor-1221	ND	0.94
Aroclor-1232	ND	0.47
Aroclor-1242	ND	0.47
Aroclor-1248	ND	0.47
Aroclor-1254	ND	0.47
Aroclor-1260	ND	0.47

Surrogate	%REC	Limits
TCMX	72	65-135
Decachlorobiphenyl	32 *	65-135

Field ID:	LF6GW103	Sampled:	03/17/06
Type:	SAMPLE	Prepared:	03/24/06
Lab ID:	185622-037	Analyzed:	03/28/06
Batch#:	111667	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.47
Aroclor-1221	ND	0.94
Aroclor-1232	ND	0.47
Aroclor-1242	ND	0.47
Aroclor-1248	ND	0.47
Aroclor-1254	ND	0.47
Aroclor-1260	ND	0.47

Surrogate	%REC	Limits
TCMX	73	65-135
Decachlorobiphenyl	37 *	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Received:	03/17/06

Type:	BLANK	Prepared:	03/22/06
Lab ID:	QC332578	Analyzed:	03/23/06
Batch#:	111570	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	97	65-135
Decachlorobiphenyl	124	65-135

Type:	BLANK	Prepared:	03/24/06
Lab ID:	QC332990	Analyzed:	03/27/06
Batch#:	111667	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	72	65-135
Decachlorobiphenyl	76	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Matrix:	Water	Batch#:	111570
Units:	ug/L	Prepared:	03/22/06
Diln Fac:	1.000	Analyzed:	03/23/06

Type: BS
Lab ID: QC332579
Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	10.00	9.098	91	60-140

Surrogate	%REC	Limits
TCMX	98	65-135
Decachlorobiphenyl	109	65-135

Type: BSD
Lab ID: QC332580
Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1221	10.00	9.540	95	60-140	5	20

Surrogate	%REC	Limits
TCMX	105	65-135
Decachlorobiphenyl	123	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Matrix:	Water	Batch#:	111667
Units:	ug/L	Prepared:	03/24/06
Diln Fac:	1.000		

Type: BS
Lab ID: QC332991
Analyzed: 03/27/06
Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	10.00	8.119	81	60-140

Surrogate	%REC	Limits
TCMX	72	65-135
Decachlorobiphenyl	77	65-135

Type: BSD
Lab ID: QC332992
Analyzed: 03/28/06
Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1221	10.00	8.898	89	60-140	9	20

Surrogate	%REC	Limits
TCMX	78	65-135
Decachlorobiphenyl	80	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185622 PCBS Water: EPA 8082

Inst : GC06
Calnum : 206117620001
Units : pg

Name : ar1660
Date : 22-MAR-2006 22:15
X Axis : R

Reviewer: MCH
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	081_013	206117620013	pcb10_2	22-MAR-2006 22:15	S2097
L2	081_014	206117620014	pcb25_5	22-MAR-2006 22:42	S2098
L3	081_015	206117620015	pcb100_20	22-MAR-2006 23:10	S2099
L4	081_016	206117620016	pcb250_50	22-MAR-2006 23:37	S2770
L5	081_017	206117620017	pcb500_100	23-MAR-2006 00:05	S2771
L6	081_018	206117620018	pcb750_150	23-MAR-2006 00:32	S2102
L7	081_019	206117620019	pcb1000_200	23-MAR-2006 00:59	S2103

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aroclor-1016 Peak # 1	A	161.10	214.68	164.64	160.69	140.34	140.96	130.68	AVRG		0.00629		159.01	17	.99	20	
Aroclor-1016 Peak # 2	A	344.10	378.84	338.63	317.66	272.70	266.91	247.35	AVRG		0.00323		309.46	16	.99	20	
Aroclor-1016 Peak # 3	A	175.20	198.24	190.96	191.24	168.03	170.42	160.64	AVRG		0.00558		179.25	8	.99	20	
Aroclor-1016 Peak # 4	A	78.300	105.52	109.53	108.60	99.590	100.45	96.738	AVRG		0.01002		99.819	11	.99	20	
Aroclor-1016 Peak # 5	A	174.80	191.20	173.69	172.72	150.28	153.29	143.14	AVRG		0.00604		165.59	10	.99	20	
Aroclor-1260 Peak # 1	A	346.20	383.08	347.91	335.49	293.25	287.40	269.90	AVRG		0.00309		323.32	13	.99	20	
Aroclor-1260 Peak # 2	A	460.40	505.00	468.79	464.00	403.99	399.35	373.50	AVRG		0.00228		439.29	11	.99	20	
Aroclor-1260 Peak # 3	A	318.80	381.96	380.92	400.58	354.45	370.70	355.35	AVRG		0.00273		366.11	7	.99	20	
Aroclor-1260 Peak # 4	A	451.20	495.40	463.85	482.55	424.66	436.06	421.26	AVRG		0.00220		453.57	6	.99	20	
Aroclor-1260 Peak # 5	A	224.00	277.56	234.65	237.76	214.54	226.81	222.11	AVRG		0.00427		233.92	9	.99	20	
TCMX	A	4800.0	5240.4	5162.3	5631.4	5410.8	5769.9	5481.3	AVRG		1.87E-4		5356.6	6	.99	20	
Decachlorobiphenyl	A	6320.0	6740.8	6261.5	6347.4	5537.4	5468.6	5220.2	AVRG		1.67E-4		5985.1	10	.99	20	
Aroclor-1016 Peak # 1	B	97.600	104.84	108.01	108.16	93.588	96.617	90.110	AVRG		0.01002		99.846	7	.99	20	
Aroclor-1016 Peak # 2	B	135.40	147.40	133.98	132.30	117.47	118.57	111.54	AVRG		0.00781		128.09	10	.99	20	
Aroclor-1016 Peak # 3	B	277.80	324.32	290.89	305.06	283.12	297.89	290.10	AVRG		0.00338		295.60	5	.99	20	
Aroclor-1016 Peak # 4	B	135.80	160.68	153.44	152.94	136.58	139.54	132.75	AVRG		0.00692		144.53	8	.99	20	
Aroclor-1016 Peak # 5	B	88.100	101.52	97.810	96.364	83.932	83.989	78.398	AVRG		0.01111		90.016	10	.99	20	
Aroclor-1260 Peak # 1	B	254.70	279.76	268.00	262.93	227.54	224.71	212.88	AVRG		0.00405		247.22	10	.99	20	
Aroclor-1260 Peak # 2	B	148.20	167.44	166.62	150.73	148.17	146.92	141.17	AVRG		0.00655		152.75	7	.99	20	
Aroclor-1260 Peak # 3	B	160.70	176.40	164.31	160.61	144.27	146.89	141.63	AVRG		0.00639		156.40	8	.99	20	
Aroclor-1260 Peak # 4	B	330.40	334.64	323.80	335.38	307.21	322.16	314.39	AVRG		0.00309		324.00	3	.99	20	
Aroclor-1260 Peak # 5	B	125.60	159.36	159.09	166.87	150.54	159.67	157.44	AVRG		0.00649		154.08	9	.99	20	
TCMX	B	3207.5	3489.6	3493.7	4054.7	3965.5	4310.7	4118.4	AVRG		2.63E-4		3805.7	11	.99	20	
Decachlorobiphenyl	B	4731.5	4868.4	4530.1	4583.0	4093.2	4147.1	3969.2	AVRG		2.26E-4		4417.5	8	.99	20	

320

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185622 PCBS Water: EPA 8082

Inst : GC06
Calnum : 206124448001
Units : pg

Name : ar2154
Date : 27-MAR-2006 20:43
X Axis : R

Reviewer: MCH
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	086_013	206124448013	ar2154	27-MAR-2006 20:43	S2665

Analyte	Ch	L1	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aroclor-1221 Peak # 1	A	69.392	AVRG		0.01441		69.392	0	.99	20	
Aroclor-1221 Peak # 2	A	51.300	AVRG		0.01949		51.300	0	.99	20	
Aroclor-1221 Peak # 3	A	204.47	AVRG		0.00489		204.47	0	.99	20	
Aroclor-1221 Peak # 4	A	25.648	AVRG		0.03899		25.648	0	.99	20	
Aroclor-1221 Peak # 5	A	23.592	AVRG		0.04239		23.592	0	.99	20	
Aroclor-1254 Peak # 1	A	224.52	AVRG		0.00445		224.52	0	.99	20	
Aroclor-1254 Peak # 2	A	283.35	AVRG		0.00353		283.35	0	.99	20	
Aroclor-1254 Peak # 3	A	195.88	AVRG		0.00511		195.88	0	.99	20	
Aroclor-1254 Peak # 4	A	330.82	AVRG		0.00302		330.82	0	.99	20	
Aroclor-1254 Peak # 5	A	221.98	AVRG		0.00450		221.98	0	.99	20	
Aroclor-1221 Peak # 1	B	51.908	AVRG		0.01926		51.908	0	.99	20	
Aroclor-1221 Peak # 2	B	46.984	AVRG		0.02128		46.984	0	.99	20	322
Aroclor-1221 Peak # 3	B	39.836	AVRG		0.02510		39.836	0	.99	20	
Aroclor-1221 Peak # 4	B	141.71	AVRG		0.00706		141.71	0	.99	20	
Aroclor-1221 Peak # 5	B	9.9880	AVRG		0.10012		9.9880	0	.99	20	
Aroclor-1254 Peak # 1	B	189.46	AVRG		0.00528		189.46	0	.99	20	
Aroclor-1254 Peak # 2	B	213.36	AVRG		0.00469		213.36	0	.99	20	
Aroclor-1254 Peak # 3	B	124.26	AVRG		0.00805		124.26	0	.99	20	
Aroclor-1254 Peak # 4	B	253.73	AVRG		0.00394		253.73	0	.99	20	
Aroclor-1254 Peak # 5	B	168.55	AVRG		0.00593		168.55	0	.99	20	

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185622 PCBS Water: EPA 8082

Inst : GC22
Calnum : 256088718001
Units : pg

Name : ar1660
Date : 02-MAR-2006 21:02
X Axis : R

Reviewer: CW
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	061_009	256088718009	pcb10_2	02-MAR-2006 21:02	S2097
L2	061_010	256088718010	pcb25_5	02-MAR-2006 21:28	S2098
L3	061_011	256088718011	pcb100_20	02-MAR-2006 21:54	S2099
L4	061_012	256088718012	pcb250_50	02-MAR-2006 22:20	S2100
L5	061_013	256088718013	pcb500_100	02-MAR-2006 22:47	S2101
L6	061_014	256088718014	pcb750_150	02-MAR-2006 23:13	S2102

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aroclor-1016 Peak # 1	A	421.30	414.60	369.96	344.52	305.87	306.59	AVRG		0.00277		360.47	14	.99	20	
Aroclor-1016 Peak # 2	A	763.60	777.36	663.77	604.25	527.67	523.68	AVRG		0.00155		643.39	17	.99	20	
Aroclor-1016 Peak # 3	A	1066.2	1011.0	858.73	804.16	717.97	738.96	AVRG		0.00115		866.18	17	.99	20	
Aroclor-1016 Peak # 4	A	766.40	715.68	596.91	560.24	488.42	493.44	AVRG		0.00166		603.52	19	.99	20	
Aroclor-1016 Peak # 5	A	496.10	506.40	424.50	401.42	341.80	347.38	AVRG		0.00238		419.60	17	.99	20	
Aroclor-1260 Peak # 1	A	1411.7	1405.8	1114.5	1102.8	958.73	1027.2	AVRG		8.55E-4		1170.1	17	.99	20	
Aroclor-1260 Peak # 2	A	924.50	908.88	740.00	720.90	614.64	647.33	AVRG		0.00132		759.37	17	.99	20	
Aroclor-1260 Peak # 3	A	854.70	765.40	662.93	680.13	580.88	612.37	AVRG		0.00144		692.73	15	.99	20	
Aroclor-1260 Peak # 4	A	2064.3	2105.4	1677.9	1695.3	1520.3	1629.5	AVRG		5.61E-4		1782.1	14	.99	20	
Aroclor-1260 Peak # 5	A	1053.2	1083.4	878.12	868.16	753.42	803.62	AVRG		0.00110		906.65	15	.99	20	
TCMX	A	19933	19773	16836	16636	15555	15367	AVRG		5.76E-5		17350	12	.99	20	
Decachlorobiphenyl	A	16543	16382	12404	12709	11421	12375	AVRG		7.33E-5		13639	16	.99	20	
Aroclor-1016 Peak # 1	B	301.30	236.84	227.64	205.21	203.82	195.27	AVRG		0.00438		228.35	17	.99	20	
Aroclor-1016 Peak # 2	B	310.60	256.56	234.21	217.18	205.11	197.89	AVRG		0.00422		236.92	18	.99	20	
Aroclor-1016 Peak # 3	B	381.80	304.96	295.73	269.08	259.13	248.12	AVRG		0.00341		293.14	17	.99	20	
Aroclor-1016 Peak # 4	B	461.90	399.64	375.99	339.54	327.88	313.78	AVRG		0.00270		369.79	15	.99	20	
Aroclor-1016 Peak # 5	B	286.70	242.80	244.57	223.86	215.56	202.75	AVRG		0.00424		236.04	13	.99	20	
Aroclor-1260 Peak # 1	B	872.90	688.28	658.08	582.40	593.89	565.53	AVRG		0.00151		660.18	17	.99	20	
Aroclor-1260 Peak # 2	B	926.40	698.92	687.26	636.64	645.03	616.74	AVRG		0.00142		701.83	16	.99	20	
Aroclor-1260 Peak # 3	B	591.70	475.84	467.11	415.59	421.56	398.71	AVRG		0.00217		461.75	15	.99	20	
Aroclor-1260 Peak # 4	B	507.70	411.40	401.38	359.13	364.76	344.58	AVRG		0.00251		398.16	15	.99	20	
Aroclor-1260 Peak # 5	B	649.50	507.92	528.32	475.67	487.42	461.06	AVRG		0.00193		518.31	13	.99	20	
TCMX	B	15229	13075	11352	10325	10190	9735.7	AVRG		8.58E-5		11651	18	.99	20	
Decachlorobiphenyl	B	10285	7146.4	7252.6	6540.6	6895.1	6632.8	AVRG		1.34E-4		7458.7	19	.99	20	

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185622 PCBS Water: EPA 8082

Inst : GC22
Calnum : 256094285001
Units : pg

Name : ar2154
Date : 06-MAR-2006 20:00
X Axis : R

Reviewer: MCH
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	065_007	256094285007	ar2154	06-MAR-2006 20:00	S2479

Analyte	Ch	L1	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aroclor-1221 Peak # 1	A	112.47	AVRG		0.00889		112.47	0	.99	20	
Aroclor-1221 Peak # 2	A	191.40	AVRG		0.00522		191.40	0	.99	20	
Aroclor-1221 Peak # 3	A	118.28	AVRG		0.00845		118.28	0	.99	20	
Aroclor-1221 Peak # 4	A	489.26	AVRG		0.00204		489.26	0	.99	20	
Aroclor-1221 Peak # 5	A	68.104	AVRG		0.01468		68.104	0	.99	20	
Aroclor-1254 Peak # 1	A	558.96	AVRG		0.00179		558.96	0	.99	20	
Aroclor-1254 Peak # 2	A	751.14	AVRG		0.00133		751.14	0	.99	20	
Aroclor-1254 Peak # 3	A	606.46	AVRG		0.00165		606.46	0	.99	20	
Aroclor-1254 Peak # 4	A	1020.5	AVRG		9.80E-4		1020.5	0	.99	20	
Aroclor-1254 Peak # 5	A	844.88	AVRG		0.00118		844.88	0	.99	20	
Aroclor-1221 Peak # 1	B	80.836	AVRG		0.01237		80.836	0	.99	20	
Aroclor-1221 Peak # 2	B	128.79	AVRG		0.00776		128.79	0	.99	20	324
Aroclor-1221 Peak # 3	B	92.708	AVRG		0.01079		92.708	0	.99	20	
Aroclor-1221 Peak # 4	B	309.13	AVRG		0.00323		309.13	0	.99	20	
Aroclor-1221 Peak # 5	B	62.300	AVRG		0.01605		62.300	0	.99	20	
Aroclor-1254 Peak # 1	B	424.80	AVRG		0.00235		424.80	0	.99	20	
Aroclor-1254 Peak # 2	B	498.76	AVRG		0.00200		498.76	0	.99	20	
Aroclor-1254 Peak # 3	B	396.55	AVRG		0.00252		396.55	0	.99	20	
Aroclor-1254 Peak # 4	B	678.46	AVRG		0.00147		678.46	0	.99	20	
Aroclor-1254 Peak # 5	B	595.12	AVRG		0.00168		595.12	0	.99	20	

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185622 PCBS Water: EPA 8082

Inst : GC25
Calnum : 826105803001
Units : pg

Date : 14-MAR-2006 19:47
X Axis : R

Reviewer: MCH
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	073_011	826105803011	pcb10_2	14-MAR-2006 19:47	S2097
L2	073_012	826105803012	pcb25_5	14-MAR-2006 20:13	S2098
L3	073_013	826105803013	pcb100_20	14-MAR-2006 20:38	S2099
L4	073_014	826105803014	pcb250_50	14-MAR-2006 21:04	S2770
L5	073_015	826105803015	pcb500_100	14-MAR-2006 21:30	S2771
L6	073_016	826105803016	pcb750_150	14-MAR-2006 21:55	S2102
L7	073_017	826105803017	pcb1000_200	14-MAR-2006 22:21	S2103

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aroclor-1016 Peak # 1	A	33.400	40.360	39.150	38.968	37.154	38.760	36.630	AVRG		0.02647		37.775	6	.99	20	
Aroclor-1016 Peak # 2	A	54.000	59.800	57.560	54.936	52.164	54.271	50.628	AVRG		0.01826		54.766	6	.99	20	
Aroclor-1016 Peak # 3	A	93.500	94.240	92.020	88.548	88.802	96.364	94.268	AVRG		0.01081		92.535	3	.99	20	
Aroclor-1016 Peak # 4	A	60.800	66.960	66.210	62.000	61.006	64.040	59.447	AVRG		0.01589		62.923	5	.99	20	
Aroclor-1016 Peak # 5	A	56.500	45.360	46.320	41.840	40.626	42.693	38.529	AVRG		0.02245		44.553	13	.99	20	
Aroclor-1260 Peak # 1	A	320.20	283.68	261.10	255.48	267.36	319.91	315.83	AVRG		0.00346		289.08	10	.99	20	
Aroclor-1260 Peak # 2	A	303.10	251.96	237.18	229.53	240.73	269.77	278.74	AVRG		0.00387		258.72	10	.99	20	
Aroclor-1260 Peak # 3	A	189.60	163.40	149.80	141.60	141.34	157.49	150.55	AVRG		0.00640		156.25	11	.99	20	
Aroclor-1260 Peak # 4	A	476.70	436.24	423.53	450.15	561.07	679.23	619.43	AVRG		0.00192		520.91	19	.99	20	
Aroclor-1260 Peak # 5	A	251.10	209.12	198.80	194.20	203.02	248.90	251.88	AVRG		0.00450		222.43	12	.99	20	
TCMX	A	2361.5	2222.8	2193.3	2220.9	2293.6	2523.1	2372.9	AVRG		4.32E-4		2312.6	5	.99	20	
Decachlorobiphenyl	A	4304.5	3751.0	3582.8	4469.1	5375.1	5729.7	5038.1	AVRG		2.17E-4		4607.2	18	.99	20	
Aroclor-1016 Peak # 1	B	64.900	77.640	75.160	80.588	75.960	78.269	75.242	AVRG		0.01326		75.394	7	.99	20	
Aroclor-1016 Peak # 2	B	122.60	107.04	102.68	100.74	97.330	103.47	96.539	AVRG		0.00958		104.34	8	.99	20	
Aroclor-1016 Peak # 3	B	374.90	334.32	333.10	330.23	334.10	358.29	334.86	AVRG		0.00292		342.83	5	.99	20	
Aroclor-1016 Peak # 4	B	162.10	145.60	142.29	138.30	133.16	142.69	132.90	AVRG		0.00702		142.44	7	.99	20	
Aroclor-1016 Peak # 5	B	93.300	83.760	84.660	79.956	78.524	84.943	79.448	AVRG		0.01197		83.513	6	.99	20	
Aroclor-1260 Peak # 1	B	491.60	431.76	395.37	355.83	374.69	412.15	376.28	AVRG		0.00247		405.38	11	.99	20	
Aroclor-1260 Peak # 2	B	308.20	260.16	232.75	224.79	234.82	268.64	248.78	AVRG		0.00394		254.02	11	.99	20	
Aroclor-1260 Peak # 3	B	207.70	211.32	198.29	191.04	193.28	216.41	196.51	AVRG		0.00495		202.08	5	.99	20	
Aroclor-1260 Peak # 4	B	640.10	599.28	584.41	618.46	655.65	675.16	597.91	AVRG		0.00160		624.42	5	.99	20	
Aroclor-1260 Peak # 5	B	312.70	282.92	271.54	265.75	287.71	319.29	296.77	AVRG		0.00344		290.95	7	.99	20	
TCMX	B	4711.5	4548.4	4465.2	4439.2	4019.2	3848.1	3638.8	AVRG		2.36E-4		4238.6	9	.99	20	
Decachlorobiphenyl	B	5228.0	4817.4	5064.3	5689.3	5614.3	5455.8	4704.7	AVRG		1.91E-4		5224.8	7	.99	20	

325

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185622 PCBS Water
EPA 8082

Inst : GC06 Name : ar1660
Calnum : 206117620001 Cal Date: 22-MAR-2006

ICV 206117620021 (081_021 23-MAR-2006) stds: S2181

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Aroclor-1016	A	250.0	225.9	pg	-10	15	
Aroclor-1260	A	250.0	228.8	pg	-8	15	
Aroclor-1016	B	250.0	226.3	pg	-9	15	
Aroclor-1260	B	250.0	252.8	pg	1	15	

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185622 PCBS Water
EPA 8082

Inst : GC22 Name : ar1660
Calnum : 256088718001 Cal Date: 02-MAR-2006

ICV 256088718017 (061_017 03-MAR-2006) stds: S2181

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Aroclor-1016	A	250.0	233.1	pg	-7	15	
Aroclor-1260	A	250.0	254.7	pg	2	15	
Aroclor-1016	B	250.0	226.9	pg	-9	15	
Aroclor-1260	B	250.0	245.2	pg	-2	15	

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185622 PCBS Water
EPA 8082

Inst : GC25
Calnum : 826105803001 Cal Date: 14-MAR-2006

ICV 826105803019 (073_019 14-MAR-2006) stds: S2181

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Aroclor-1016	A	250.0	238.9	pg	-4	15	
Aroclor-1260	A	250.0	220.4	pg	-12	15	
Aroclor-1016	B	250.0	226.6	pg	-9	15	
Aroclor-1260	B	250.0	243.5	pg	-3	15	

CONTINUING CALIBRATION SUMMARY FOR 185622 PCBS Water
Curtis & Tompkins Laboratories

Analyte: Aroclor-1016

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	206124448004	27-MAR-2006 11:48	206117620001	22-MAR-2006			100.00	107.88	pg	8	15	
GC06	B	206124448004	27-MAR-2006 11:48	206117620001	22-MAR-2006			100.00	107.56	pg	8	15	
GC06	A	206124448024	28-MAR-2006 01:45	206117620001	22-MAR-2006			500.00	457.67	pg	-8	15	
GC06	B	206124448024	28-MAR-2006 01:45	206117620001	22-MAR-2006			500.00	464.48	pg	-7	15	
GC22	A	256119063003	23-MAR-2006 17:16	256088718001	02-MAR-2006			500.00	443.51	pg	-11	15	
GC22	B	256119063003	23-MAR-2006 17:16	256088718001	02-MAR-2006			500.00	445.15	pg	-11	15	
GC22	A	256119063020	24-MAR-2006 00:54	256088718001	02-MAR-2006			250.00	236.43	pg	-5	15	
GC22	B	256119063020	24-MAR-2006 00:54	256088718001	02-MAR-2006			250.00	245.79	pg	-2	15	
GC22	A	256119063034	24-MAR-2006 07:01	256088718001	02-MAR-2006			100.00	96.918	pg	-3	15	
GC22	B	256119063034	24-MAR-2006 07:01	256088718001	02-MAR-2006			100.00	91.638	pg	-8	15	
GC25	A	826125073002	27-MAR-2006 20:59	826105803001	14-MAR-2006			500.00	429.64	pg	-14	15	
GC25	B	826125073002	27-MAR-2006 20:59	826105803001	14-MAR-2006			500.00	465.98	pg	-7	15	
GC25	A	826125073018	28-MAR-2006 03:49	826105803001	14-MAR-2006			250.00	283.81	pg	14	15	
GC25	B	826125073018	28-MAR-2006 03:49	826105803001	14-MAR-2006			250.00	249.74	pg	0	15	

CONTINUING CALIBRATION SUMMARY FOR 185622 PCBS Water
Curtis & Tompkins Laboratories

Analyte: Aroclor-1221

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	206124448026	28-MAR-2006 02:40	206124448001	27-MAR-2006			250.00	247.91	pg	-1	15	
GC06	B	206124448026	28-MAR-2006 02:40	206124448001	27-MAR-2006			250.00	246.06	pg	-2	15	
GC22	A	256119063004	23-MAR-2006 17:54	256094285001	06-MAR-2006			250.00	242.37	pg	-3	15	
GC22	B	256119063004	23-MAR-2006 17:54	256094285001	06-MAR-2006			250.00	226.89	pg	-9	15	
GC22	A	256119063022	24-MAR-2006 01:46	256094285001	06-MAR-2006			250.00	237.66	pg	-5	15	
GC22	B	256119063022	24-MAR-2006 01:46	256094285001	06-MAR-2006			250.00	271.17	pg	8	15	

CONTINUING CALIBRATION SUMMARY FOR 185622 PCBS Water
Curtis & Tompkins Laboratories

Analyte: Aroclor-1254

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	206124448026	28-MAR-2006 02:40	206124448001	27-MAR-2006			250.00	245.06	pg	-2	15	
GC06	B	206124448026	28-MAR-2006 02:40	206124448001	27-MAR-2006			250.00	250.29	pg	0	15	
GC22	A	256119063004	23-MAR-2006 17:54	256094285001	06-MAR-2006			250.00	246.79	pg	-1	15	
GC22	B	256119063004	23-MAR-2006 17:54	256094285001	06-MAR-2006			250.00	231.23	pg	-8	15	
GC22	A	256119063022	24-MAR-2006 01:46	256094285001	06-MAR-2006			250.00	239.54	pg	-4	15	
GC22	B	256119063022	24-MAR-2006 01:46	256094285001	06-MAR-2006			250.00	269.04	pg	8	15	

CONTINUING CALIBRATION SUMMARY FOR 185622 PCBS Water
Curtis & Tompkins Laboratories

Analyte: Aroclor-1260

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	206124448004	27-MAR-2006 11:48	206117620001	22-MAR-2006			100.00	114.40	pg	14	15	
GC06	B	206124448004	27-MAR-2006 11:48	206117620001	22-MAR-2006			100.00	113.81	pg	14	15	
GC06	A	206124448024	28-MAR-2006 01:45	206117620001	22-MAR-2006			500.00	468.34	pg	-6	15	
GC06	B	206124448024	28-MAR-2006 01:45	206117620001	22-MAR-2006			500.00	488.81	pg	-2	15	
GC22	A	256119063003	23-MAR-2006 17:16	256088718001	02-MAR-2006			500.00	477.02	pg	-5	15	
GC22	B	256119063003	23-MAR-2006 17:16	256088718001	02-MAR-2006			500.00	561.93	pg	12	15	
GC22	A	256119063020	24-MAR-2006 00:54	256088718001	02-MAR-2006			250.00	244.32	pg	-2	15	
GC22	B	256119063020	24-MAR-2006 00:54	256088718001	02-MAR-2006			250.00	293.25	pg	**17**	15	c+ ***
GC22	A	256119063034	24-MAR-2006 07:01	256088718001	02-MAR-2006			100.00	100.28	pg	0	15	
GC22	B	256119063034	24-MAR-2006 07:01	256088718001	02-MAR-2006			100.00	113.71	pg	14	15	
GC25	A	826125073002	27-MAR-2006 20:59	826105803001	14-MAR-2006			500.00	485.31	pg	-3	15	
GC25	B	826125073002	27-MAR-2006 20:59	826105803001	14-MAR-2006			500.00	465.06	pg	-7	15	
GC25	A	826125073018	28-MAR-2006 03:49	826105803001	14-MAR-2006			250.00	229.63	pg	-8	15	
GC25	B	826125073018	28-MAR-2006 03:49	826105803001	14-MAR-2006			250.00	234.30	pg	-6	15	

+=high bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 185622 PCBS Water
Curtis & Tompkins Laboratories

Analyte: TCMX

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	206124448004	27-MAR-2006 11:48	206117620001	22-MAR-2006	5356.6	5206.4	20.000	19.439	pg	-3	15	
GC06	B	206124448004	27-MAR-2006 11:48	206117620001	22-MAR-2006	3805.7	3529.7	20.000	18.549	pg	-7	15	
GC06	A	206124448024	28-MAR-2006 01:45	206117620001	22-MAR-2006	5356.6	5252.9	100.00	98.064	pg	-2	15	
GC06	B	206124448024	28-MAR-2006 01:45	206117620001	22-MAR-2006	3805.7	3845.7	100.00	101.05	pg	1	15	
GC22	A	256119063003	23-MAR-2006 17:16	256088718001	02-MAR-2006	17350	16723	100.00	96.388	pg	-4	15	
GC22	B	256119063003	23-MAR-2006 17:16	256088718001	02-MAR-2006	11651	9948.4	100.00	85.384	pg	-15	15	
GC22	A	256119063020	24-MAR-2006 00:54	256088718001	02-MAR-2006	17350	16962	50.000	48.880	pg	-2	15	
GC22	B	256119063020	24-MAR-2006 00:54	256088718001	02-MAR-2006	11651	10749	50.000	46.129	pg	-8	15	
GC22	A	256119063034	24-MAR-2006 07:01	256088718001	02-MAR-2006	17350	16366	20.000	18.866	pg	-6	15	
GC22	B	256119063034	24-MAR-2006 07:01	256088718001	02-MAR-2006	11651	9923.8	20.000	17.035	pg	-15	15	
GC25	A	826125073002	27-MAR-2006 20:59	826105803001	14-MAR-2006	2312.6	2149.0	100.00	92.928	pg	-7	15	
GC25	B	826125073002	27-MAR-2006 20:59	826105803001	14-MAR-2006	4238.6	4000.7	100.00	94.386	pg	-6	15	
GC25	A	826125073018	28-MAR-2006 03:49	826105803001	14-MAR-2006	2312.6	2302.7	50.000	49.787	pg	0	15	
GC25	B	826125073018	28-MAR-2006 03:49	826105803001	14-MAR-2006	4238.6	4448.6	50.000	52.477	pg	5	15	

CONTINUING CALIBRATION SUMMARY FOR 185622 PCBS Water
Curtis & Tompkins Laboratories

Analyte: Decachlorobiphenyl

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	206124448004	27-MAR-2006 11:48	206117620001	22-MAR-2006	5985.1	6760.3	20.000	22.590	pg	13	15	
GC06	B	206124448004	27-MAR-2006 11:48	206117620001	22-MAR-2006	4417.5	4892.1	20.000	22.149	pg	11	15	
GC06	A	206124448024	28-MAR-2006 01:45	206117620001	22-MAR-2006	5985.1	5638.7	100.00	94.212	pg	-6	15	
GC06	B	206124448024	28-MAR-2006 01:45	206117620001	22-MAR-2006	4417.5	4295.4	100.00	97.235	pg	-3	15	
GC22	A	256119063003	23-MAR-2006 17:16	256088718001	02-MAR-2006	13639	12008	100.00	88.039	pg	-12	15	
GC22	B	256119063003	23-MAR-2006 17:16	256088718001	02-MAR-2006	7458.7	8896.8	100.00	119.28	pg	**19**	15	c+
GC22	A	256119063020	24-MAR-2006 00:54	256088718001	02-MAR-2006	13639	12386	50.000	45.406	pg	-9	15	
GC22	B	256119063020	24-MAR-2006 00:54	256088718001	02-MAR-2006	7458.7	8842.1	50.000	59.274	pg	**19**	15	c+
GC22	A	256119063034	24-MAR-2006 07:01	256088718001	02-MAR-2006	13639	11861	20.000	17.394	pg	-13	15	
GC22	B	256119063034	24-MAR-2006 07:01	256088718001	02-MAR-2006	7458.7	8566.9	20.000	22.972	pg	15	15	
GC25	A	826125073002	27-MAR-2006 20:59	826105803001	14-MAR-2006	4607.2	3077.5	100.00	66.798	pg	**-33**	15	c-
GC25	B	826125073002	27-MAR-2006 20:59	826105803001	14-MAR-2006	5224.8	4409.7	100.00	84.398	pg	**-16**	15	c-
GC25	A	826125073018	28-MAR-2006 03:49	826105803001	14-MAR-2006	4607.2	2366.6	50.000	25.684	pg	**-49**	15	c-
GC25	B	826125073018	28-MAR-2006 03:49	826105803001	14-MAR-2006	5224.8	3962.9	50.000	37.924	pg	**-24**	15	c-

+=high bias -=low bias c=CCV

SEQUENCE SUMMARY FOR 185622 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206117620 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 22-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	081_001	X	hex			22-MAR-2006 16:20	1.0						
002	081_002	CCV	pcb500_100			22-MAR-2006 16:47	1.0					1	
003	081_003	CCV	pcb500_100			22-MAR-2006 17:15	1.0					1	
004	081_004	CCV	pcb500_100			22-MAR-2006 17:42	1.0					1	
005	081_005	CCV	pcb500_100			22-MAR-2006 18:10	1.0					1	
006	081_006	X	primer			22-MAR-2006 19:03	1.0						
007	081_007	X	primer			22-MAR-2006 19:30	1.0						
008	081_008	X	primer			22-MAR-2006 19:58	1.0						
009	081_009	X	primer			22-MAR-2006 20:25	1.0						
010	081_010	X	primer			22-MAR-2006 20:52	1.0						
011	081_011	X	hex			22-MAR-2006 21:20	1.0						
012	081_012	X	hex			22-MAR-2006 21:47	1.0						
013	081_013	ICAL	pcb10_2			22-MAR-2006 22:15	1.0					2	
014	081_014	ICAL	pcb25_5			22-MAR-2006 22:42	1.0					3	
015	081_015	ICAL	pcb100_20			22-MAR-2006 23:10	1.0					4	336
016	081_016	ICAL	pcb250_50			22-MAR-2006 23:37	1.0					5	
017	081_017	ICAL	pcb500_100			23-MAR-2006 00:05	1.0					6	
018	081_018	ICAL	pcb750_150			23-MAR-2006 00:32	1.0					7	
019	081_019	ICAL	pcb1000_200			23-MAR-2006 00:59	1.0					8	
020	081_020	X	hex			23-MAR-2006 01:27	1.0						
021	081_021	ICV	ultra_1660			23-MAR-2006 01:54	1.0		1			9	
022	081_022	ICV	ultra_1660			23-MAR-2006 02:22	1.0					9	
023	081_023	X	hex			23-MAR-2006 02:49	1.0						

Stds used: 1=S2101 2=S2097 3=S2098 4=S2099 5=S2770 6=S2771 7=S2102 8=S2103 9=S2181

SEQUENCE SUMMARY FOR 185622 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206124448 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 27-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	086_001	X	hex			27-MAR-2006 10:08	1.0						
002	086_002	X	pcb100_20			27-MAR-2006 10:35	1.0	1.0	4		1	1	
003	086_003	X	pcb100_20			27-MAR-2006 11:03	1.0	1.0	4		1	1	
004	086_004	CCV	pcb100_20			27-MAR-2006 11:48	1.0	1.0			1	1	
005	086_005	X	pcb100_20			27-MAR-2006 12:16	1.0					1	
006	086_006	CCV	ar1268			27-MAR-2006 12:43	1.0	1.0			1	2	
007	086_007	X	ccv			27-MAR-2006 13:10	1.0					2	
008	086_008	X	hex			27-MAR-2006 13:38	1.0						
009	086_009	SAMPLE	185575-006	111620	Soil	27-MAR-2006 14:05	5.0	0.6633		2	1		
010	086_010	SAMPLE	185575-010	111620	Soil	27-MAR-2006 14:33	10.0	0.6711			1		
011	086_011	SAMPLE	185609-024	111496	Soil	27-MAR-2006 15:01	40.0	0.8262			1		
012	086_012	X	hex			27-MAR-2006 20:15	1.0						
013	086_013	ICAL	ar2154			27-MAR-2006 20:43	1.0	1.0				3	
014	086_014	X	ar2154			27-MAR-2006 21:10	1.0	1.0				3	
015	086_015	X	hex			27-MAR-2006 21:38	1.0						337
016	086_016	LCS	QC332287	111496	Soil	27-MAR-2006 22:05	1.0	0.842			1		
017	086_017	BLANK	QC333208	111727	Soil	27-MAR-2006 22:32	1.0	0.844			1		
018	086_018	LCS	QC333209	111727	Soil	27-MAR-2006 23:00	1.0	0.8344			1		
019	086_019	BLANK	QC332990	111667	Water	27-MAR-2006 23:27	1.0	0.025			1		
020	086_020	BS	QC332991	111667	Water	27-MAR-2006 23:55	1.0	0.025			1		
021	086_021	BSD	QC332992	111667	Water	28-MAR-2006 00:22	1.0	0.025			1		
022	086_022	BLANK	QC333077	111693	Water	28-MAR-2006 00:50	1.0	0.025			1		
023	086_023	X	hex			28-MAR-2006 01:17	1.0						
024	086_024	CCV	pcb500_100			28-MAR-2006 01:45	1.0	1.0			1	4	
025	086_025	X	pcb500_100			28-MAR-2006 02:12	1.0					4	
026	086_026	CCV	ar2154			28-MAR-2006 02:40	1.0	1.0			1	3	
027	086_027	X	ccv			28-MAR-2006 03:07	1.0					3	
028	086_028	X	ccv			28-MAR-2006 03:34	1.0					2	
029	086_029	CCV	ar1268			28-MAR-2006 04:02	1.0	1.0			1	2	
030	086_030	X	hex			28-MAR-2006 04:29	1.0						
031	086_031	BS	QC333078	111693	Water	28-MAR-2006 04:57	1.0	0.025	1		1		

Stds used: 1=S2099 2=S2638 3=S2665 4=S2101 5=S2770

SEQUENCE SUMMARY FOR 185622 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 206124448 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 27-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	086_032	BSD	QC333079	111693	Water	28-MAR-2006 05:24	1.0	0.025	1	2	1		
033	086_033	PREPBLK	QC333080	111693	WET Le	28-MAR-2006 05:52	1.0	0.025			1		
034	086_034	SAMPLE	185750-002	111727	Soil	28-MAR-2006 06:19	1.0	0.8443			1		
035	086_035	MSS	185698-016	111727	Soil	28-MAR-2006 06:47	1.0	0.8303	9	2	1	10:PCB126=2360.23	
036	086_036	MS	QC333210	111727	Soil	28-MAR-2006 07:14	1.0	0.8409	1	4	1	1:PCB126=1187.85	
037	086_037	MSD	QC333211	111727	Soil	28-MAR-2006 07:42	1.0	0.8289	1	1	1	4:PCB126=2110.59	
038	086_038	MSS	185698-001	111620	Soil	28-MAR-2006 08:10	1.0	0.6649	4	2	1	2:PCB126=3195.28	
039	086_039	MS	QC332797	111620	Soil	28-MAR-2006 08:37	1.0	0.6723	1		1	2:PCB126=2674.06	
040	086_040	MSD	QC332798	111620	Soil	28-MAR-2006 09:05	1.0	0.6568	1	2	1	4:PCB126=3952.30	
041	086_041	X	hex			28-MAR-2006 09:33	1.0						
042	086_042	CCV	pcb250_50			28-MAR-2006 10:00	1.0	1.0			1	5	
043	086_043	X	ccv			28-MAR-2006 10:28	1.0					5	
044	086_044	CCV	ar2154			28-MAR-2006 10:55	1.0	1.0	3		1	3	
045	086_045	X	ccv			28-MAR-2006 11:23	1.0					3	
046	086_046	X	ccv			28-MAR-2006 11:50	1.0					2	

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Stds used: 1=S2099 2=S2638 3=S2665 4=S2101 5=S2770

SEQUENCE SUMMARY FOR 185622 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 256088718 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 02-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6
Analytical Method: EPA 8082 SOP Version: 8082_congeners_rv0

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	061_001	X	primer			02-MAR-2006 14:38	1.0						
002	061_002	X	primer			02-MAR-2006 15:04	1.0						
003	061_003	X	primer			02-MAR-2006 15:31	1.0						
004	061_004	X	primer			02-MAR-2006 15:57	1.0						
005	061_005	X	primer			02-MAR-2006 16:23	1.0						
006	061_006	X	primer			02-MAR-2006 16:49	1.0						
007	061_007	X	hex			02-MAR-2006 20:09	1.0						
008	061_008	X	hex			02-MAR-2006 20:35	1.0						
009	061_009	ICAL	pcb10_2			02-MAR-2006 21:02	1.0					1	
010	061_010	ICAL	pcb25_5			02-MAR-2006 21:28	1.0					2	
011	061_011	ICAL	pcb100_20			02-MAR-2006 21:54	1.0					3	
012	061_012	ICAL	pcb250_50			02-MAR-2006 22:20	1.0					4	
013	061_013	ICAL	pcb500_100			02-MAR-2006 22:47	1.0					5	
014	061_014	ICAL	pcb750_150			02-MAR-2006 23:13	1.0					6	339
015	061_015	ICAL	pcb1000_200			02-MAR-2006 23:39	1.0					7	
016	061_016	X	hex			03-MAR-2006 00:06	1.0						
017	061_017	ICV	ultra_1660			03-MAR-2006 00:32	1.0		1			8	
018	061_018	X	icv			03-MAR-2006 00:58	1.0					8	
019	061_019	X	hex			03-MAR-2006 01:25	1.0						

Stds used: 1=S2097 2=S2098 3=S2099 4=S2100 5=S2101 6=S2102 7=S2103 8=S2181

SEQUENCE SUMMARY FOR 185622 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 256094285 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 06-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	065_001	X	hex			06-MAR-2006 11:25	1.0						
002	065_002	X	ccv			06-MAR-2006 11:51	1.0					1	
003	065_003	X	pcb500_100			06-MAR-2006 12:17	1.0					1	
004	065_004	X	ccv			06-MAR-2006 12:43	1.0					2	
005	065_005	X	ccv			06-MAR-2006 13:10	1.0					2	
006	065_006	CCV	pcb500_100			06-MAR-2006 14:44	1.0	1.0			1	1	
007	065_007	ICAL	ar2154			06-MAR-2006 20:00	1.0	1.0				2	
008	065_008	X	ccv			06-MAR-2006 20:27	1.0					2	
009	065_009	X	hex			06-MAR-2006 20:53	1.0						
010	065_010	BLANK	QC330147	110982	Soil	06-MAR-2006 21:19	1.0	0.6667			1		
011	065_011	LCS	QC330148	110982	Soil	06-MAR-2006 21:45	1.0	0.6667			1		
012	065_012	SAMPLE	185130-001	110982	Soil	06-MAR-2006 22:12	1.0	0.6761		1	1		
013	065_013	SAMPLE	185130-002	110982	Soil	06-MAR-2006 22:38	1.0	0.6636			1		
014	065_014	SAMPLE	185130-003	110982	Soil	06-MAR-2006 23:04	1.0	0.6711			1		
015	065_015	SAMPLE	185131-001	110982	Soil	06-MAR-2006 23:30	1.0	0.6702			1		340
016	065_016	SAMPLE	185131-002	110982	Soil	06-MAR-2006 23:56	1.0	0.6645	10		1	12:PCB126=5217.78	
017	065_017	MSS	185171-001	110982	Soil	07-MAR-2006 00:23	1.0	0.6716		1	1		
018	065_018	MS	QC330149	110982	Soil	07-MAR-2006 00:49	1.0	0.6658		1	1		
019	065_019	MSD	QC330150	110982	Soil	07-MAR-2006 01:15	1.0	0.6662		2	1		
020	065_020	X	hex			07-MAR-2006 01:41	1.0						
021	065_021	CCV	pcb250_50			07-MAR-2006 02:08	1.0	1.0			1	3	
022	065_022	X	ccv			07-MAR-2006 02:34	1.0					3	
023	065_023	CCV	ar2154			07-MAR-2006 03:00	1.0	1.0			1	2	
024	065_024	X	ccv			07-MAR-2006 03:26	1.0					2	
025	065_025	X	hex			07-MAR-2006 03:53	1.0						
026	065_026	SAMPLE	185131-003	110982	Soil	07-MAR-2006 04:19	1.0	0.6752			1		
027	065_027	SAMPLE	185132-001	110982	Soil	07-MAR-2006 04:45	1.0	0.6566	1		1		
028	065_028	SAMPLE	185132-002	110982	Soil	07-MAR-2006 05:11	1.0	0.6653			1		
029	065_029	SAMPLE	185132-003	110982	Soil	07-MAR-2006 05:38	1.0	0.668			1		
030	065_030	SAMPLE	185082-001	110928	Soil	07-MAR-2006 06:04	1.0						
031	065_031	SAMPLE	185082-002	110928	Soil	07-MAR-2006 06:30	1.0						

Stds used: 1=S2101 2=S2479 3=S2100 4=S2099

SEQUENCE SUMMARY FOR 185622 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 256094285 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 06-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	065_032	SAMPLE	185082-003	110928	Soil	07-MAR-2006 06:56	1.0	0.6748			1		
033	065_033	SAMPLE	185082-004	110928	Soil	07-MAR-2006 07:23	1.0	0.657			1		
034	065_034	SAMPLE	185082-005	110928	Soil	07-MAR-2006 07:49	1.0						
035	065_035	SAMPLE	185082-006	110928	Soil	07-MAR-2006 08:15	1.0	0.6575	1		1		
036	065_036	X	hex			07-MAR-2006 08:41	1.0						
037	065_037	CCV	pcb100_20			07-MAR-2006 09:08	1.0	1.0	1		1	4	
038	065_038	X	ccv			07-MAR-2006 09:34	1.0					4	
039	065_039	CCV	ar2154			07-MAR-2006 10:00	1.0	1.0			1	2	
040	065_040	X	ccv			07-MAR-2006 10:26	1.0					2	
041	065_041	X	hex			07-MAR-2006 10:52	1.0						
042	065_042	SAMPLE	185082-007	110928	Soil	07-MAR-2006 11:19	1.0						
043	065_043	SAMPLE	185082-008	110928	Soil	07-MAR-2006 11:45	1.0	0.6734			1		
044	065_044	SAMPLE	185082-009	110928	Soil	07-MAR-2006 12:11	1.0	0.6667			1		
045	065_045	SAMPLE	185082-010	110928	Soil	07-MAR-2006 12:37	1.0						
046	065_046	SAMPLE	185082-011	110928	Soil	07-MAR-2006 13:03	1.0	0.6698	1		1		
047	065_047	SAMPLE	185082-012	110928	Soil	07-MAR-2006 13:29	1.0						
048	065_048	SAMPLE	185082-013	110928	Soil	07-MAR-2006 13:55	1.0	0.6618			1		
049	065_049	SAMPLE	185082-014	110928	Soil	07-MAR-2006 14:22	1.0	0.668			1		
050	065_050	X	hex			07-MAR-2006 14:48	1.0						
051	065_051	X	pcb500_100			07-MAR-2006 15:14	1.0	1.0	1		1	1	
052	065_052	CCV	pcb500_100			07-MAR-2006 15:40	1.0	1.0			1	1	
053	065_053	CCV	ar2154			07-MAR-2006 16:07	1.0	1.0			1	2	
054	065_054	X	ccv			07-MAR-2006 16:33	1.0					2	
055	065_055	X	hex			07-MAR-2006 16:59	1.0						

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Stds used: 1=S2101 2=S2479 3=S2100 4=S2099

SEQUENCE SUMMARY FOR 185622 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 256119063 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 23-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	082_001	X	hex			23-MAR-2006 16:23	1.0						
002	082_002	X	pcb500_100			23-MAR-2006 16:50	1.0					1	
003	082_003	CCV	pcb500_100			23-MAR-2006 17:16	1.0	1.0			1	1	
004	082_004	CCV	ar2154			23-MAR-2006 17:54	1.0	1.0			1	2	
005	082_005	X	ccv			23-MAR-2006 18:20	1.0					2	
006	082_006	X	ccv			23-MAR-2006 18:46	1.0					3	
007	082_007	X	ccv			23-MAR-2006 19:13	1.0					3	
008	082_008	X	hex			23-MAR-2006 19:39	1.0						
009	082_009	BLANK	QC332578	111570	Water	23-MAR-2006 20:05	1.0	0.025		1	1		
010	082_010	BS	QC332579	111570	Water	23-MAR-2006 20:31	1.0	0.025		1	1		
011	082_011	BSD	QC332580	111570	Water	23-MAR-2006 20:58	1.0	0.025		1	1		
012	082_012	SAMPLE	185586-009	111570	Water	23-MAR-2006 21:24	1.0	0.02381		1	1		
013	082_013	SAMPLE	185622-003	111570	Water	23-MAR-2006 21:50	1.0	0.02381		1	1		
014	082_014	SAMPLE	185622-004	111570	Water	23-MAR-2006 22:16	1.0	0.02358		1	1		
015	082_015	SAMPLE	185622-005	111570	Water	23-MAR-2006 22:42	1.0	0.02404		1	1		342
016	082_016	SAMPLE	185622-006	111570	Water	23-MAR-2006 23:09	1.0	0.02404		1	1		
017	082_017	SAMPLE	185622-020	111570	Water	23-MAR-2006 23:35	1.0	0.02427		1	1		
018	082_018	SAMPLE	185622-021	111570	Water	24-MAR-2006 00:01	1.0	0.02404			1		
019	082_019	X	hex			24-MAR-2006 00:28	1.0						
020	082_020	CCV	pcb250_50			24-MAR-2006 00:54	1.0	1.0	1		1	4	
021	082_021	X	pcb250_50			24-MAR-2006 01:20	1.0	1.0	1		1	4	
022	082_022	CCV	ar2154			24-MAR-2006 01:46	1.0	1.0			1	5	
023	082_023	X	ccv			24-MAR-2006 02:12	1.0					5	
024	082_024	X	ccv			24-MAR-2006 02:39	1.0					3	
025	082_025	X	ccv			24-MAR-2006 03:05	1.0					3	
026	082_026	X	hex			24-MAR-2006 03:31	1.0						
027	082_027	SAMPLE	185622-022	111570	Water	24-MAR-2006 03:57	1.0	0.02404			1		
028	082_028	SAMPLE	185622-025	111570	Water	24-MAR-2006 04:24	1.0	0.02427			1		
029	082_029	SAMPLE	185622-026	111570	Water	24-MAR-2006 04:50	1.0	0.02427		1	1		
030	082_030	SAMPLE	185622-027	111570	Water	24-MAR-2006 05:16	1.0	0.025			1		
031	082_031	SAMPLE	185690-001	111570	Water	24-MAR-2006 05:42	1.0	0.025	1	1	1		

Stds used: 1=S2101 2=S2665 3=S2638 4=S2100 5=S2479 6=S2099

SEQUENCE SUMMARY FOR 185622 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 256119063 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 23-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	082_032	X	hex			24-MAR-2006 06:08	1.0						
033	082_033	X	pcb100_20			24-MAR-2006 06:35	1.0	1.0	2		1	6	
034	082_034	CCV	pcb100_20			24-MAR-2006 07:01	1.0	1.0			1	6	
035	082_035	X	ccv			24-MAR-2006 07:27	1.0					5	
036	082_036	X	ccv			24-MAR-2006 07:54	1.0					5	
037	082_037	X	ccv			24-MAR-2006 08:20	1.0					3	
038	082_038	X	ccv			24-MAR-2006 08:46	1.0					3	
039	082_039	X	hex			24-MAR-2006 09:12	1.0						

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Stds used: 1=S2101 2=S2665 3=S2638 4=S2100 5=S2479 6=S2099

SEQUENCE SUMMARY FOR 185622 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 826105803 Instrument: GC25 Gas Chromatograph #25 ECD Begun: 14-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
002	073_002	X	hex			14-MAR-2006 11:23	1.0						
003	073_003	X	low pt.			14-MAR-2006 11:49	1.0						
004	073_004	X	low pt.			14-MAR-2006 12:14	1.0						
005	073_005	X	high pt.			14-MAR-2006 12:40	1.0						
006	073_006	X	high pt.			14-MAR-2006 13:06	1.0						
007	073_007	X	low pt.			14-MAR-2006 13:35	1.0						
008	073_008	X	high pt.			14-MAR-2006 14:01	1.0						
009	073_009	X	hex			14-MAR-2006 18:56	1.0						
010	073_010	X	hex			14-MAR-2006 19:21	1.0						
011	073_011	ICAL	pcb10_2			14-MAR-2006 19:47	1.0					1	
012	073_012	ICAL	pcb25_5			14-MAR-2006 20:13	1.0					2	
013	073_013	ICAL	pcb100_20			14-MAR-2006 20:38	1.0					3	
014	073_014	ICAL	pcb250_50			14-MAR-2006 21:04	1.0					4	
015	073_015	ICAL	pcb500_100			14-MAR-2006 21:30	1.0					5	
016	073_016	ICAL	pcb750_150			14-MAR-2006 21:55	1.0					6	344
017	073_017	ICAL	pcb1000_200			14-MAR-2006 22:21	1.0					7	
018	073_018	X	hex			14-MAR-2006 22:46	1.0						
019	073_019	ICV	ultra_1660			14-MAR-2006 23:12	1.0		1			8	
020	073_020	X	icv			14-MAR-2006 23:38	1.0					8	
021	073_021	X	hex			15-MAR-2006 00:03	1.0						

Stds used: 1=S2097 2=S2098 3=S2099 4=S2770 5=S2771 6=S2102 7=S2103 8=S2181

SEQUENCE SUMMARY FOR 185622 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 826125073 Instrument: GC25 Gas Chromatograph #25 ECD Begun: 27-MAR-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	086_001	X	hex			27-MAR-2006 20:33	1.0						
002	086_002	CCV	pcb500_100			27-MAR-2006 20:59	1.0	1.0			1	1	
003	086_003	X	pcb500_100			27-MAR-2006 21:24	1.0	1.0			1	1	
004	086_004	X	ccv			27-MAR-2006 21:50	1.0					2	
005	086_005	X	ccv			27-MAR-2006 22:16	1.0					2	
006	086_006	X	hex			27-MAR-2006 22:41	1.0						
007	086_007	SAMPLE	185622-030	111667	Water	27-MAR-2006 23:07	1.0	0.02427		2	1		
008	086_008	SAMPLE	185622-033	111667	Water	27-MAR-2006 23:33	1.0	0.02358		1	1		
009	086_009	SAMPLE	185622-034	111667	Water	27-MAR-2006 23:58	1.0	0.02427		2	1		
010	086_010	SAMPLE	185622-035	111667	Water	28-MAR-2006 00:24	1.0	0.02451		2	1		
011	086_011	SAMPLE	185622-036	111667	Water	28-MAR-2006 00:49	1.0	0.02358		2	1		
012	086_012	SAMPLE	185622-037	111667	Water	28-MAR-2006 01:15	1.0	0.02358		2	1		
013	086_013	SAMPLE	185698-004	111727	Soil	28-MAR-2006 01:41	1.0						
014	086_014	SAMPLE	185698-005	111727	Soil	28-MAR-2006 02:06	1.0						
015	086_015	SAMPLE	185698-006	111727	Soil	28-MAR-2006 02:32	1.0						345
016	086_016	SAMPLE	185698-007	111727	Soil	28-MAR-2006 02:58	1.0						
017	086_017	X	hex			28-MAR-2006 03:23	1.0						
018	086_018	CCV	pcb250_50			28-MAR-2006 03:49	1.0	1.0			1	3	
019	086_019	X	ccv			28-MAR-2006 04:14	1.0	1.0			1	3	
020	086_020	X	ccv			28-MAR-2006 04:40	1.0					2	
021	086_021	X	ccv			28-MAR-2006 05:06	1.0					2	
022	086_022	X	hex			28-MAR-2006 05:31	1.0						
023	086_023	SAMPLE	185698-008	111727	Soil	28-MAR-2006 05:57	1.0						
024	086_024	SAMPLE	185698-009	111727	Soil	28-MAR-2006 06:23	1.0						
025	086_025	SAMPLE	185698-010	111727	Soil	28-MAR-2006 06:48	1.0						
026	086_026	SAMPLE	185698-011	111727	Soil	28-MAR-2006 07:14	1.0						
027	086_027	SAMPLE	185698-012	111727	Soil	28-MAR-2006 07:39	1.0						
028	086_028	SAMPLE	185698-013	111727	Soil	28-MAR-2006 08:05	1.0						
029	086_029	SAMPLE	185698-014	111727	Soil	28-MAR-2006 08:31	1.0						
030	086_030	SAMPLE	185698-015	111727	Soil	28-MAR-2006 08:56	1.0						

Stds used: 1=S2771 2=S2665 3=S2770

REPORTING SUMMARY FOR 185622 PCBS Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185622-003	Aroclor-1016	GC22	A	03/23/06 21:50
185622-003	Aroclor-1221	GC22	A	03/23/06 21:50
185622-003	Aroclor-1232	GC22	A	03/23/06 21:50
185622-003	Aroclor-1242	GC22	A	03/23/06 21:50
185622-003	Aroclor-1248	GC22	A	03/23/06 21:50
185622-003	Aroclor-1254	GC22	A	03/23/06 21:50
185622-003	Aroclor-1260	GC22	A	03/23/06 21:50
185622-003	TCMX	GC22	A	03/23/06 21:50
185622-003	Decachlorobiphenyl	GC22	A	03/23/06 21:50
185622-004	Aroclor-1016	GC22	A	03/23/06 22:16
185622-004	Aroclor-1221	GC22	A	03/23/06 22:16
185622-004	Aroclor-1232	GC22	A	03/23/06 22:16
185622-004	Aroclor-1242	GC22	A	03/23/06 22:16
185622-004	Aroclor-1248	GC22	A	03/23/06 22:16
185622-004	Aroclor-1254	GC22	A	03/23/06 22:16
185622-004	Aroclor-1260	GC22	A	03/23/06 22:16
185622-004	TCMX	GC22	A	03/23/06 22:16
185622-004	Decachlorobiphenyl	GC22	A	03/23/06 22:16
185622-005	Aroclor-1016	GC22	A	03/23/06 22:42
185622-005	Aroclor-1221	GC22	A	03/23/06 22:42
185622-005	Aroclor-1232	GC22	A	03/23/06 22:42
185622-005	Aroclor-1242	GC22	A	03/23/06 22:42
185622-005	Aroclor-1248	GC22	A	03/23/06 22:42
185622-005	Aroclor-1254	GC22	A	03/23/06 22:42
185622-005	Aroclor-1260	GC22	A	03/23/06 22:42
185622-005	TCMX	GC22	A	03/23/06 22:42
185622-005	Decachlorobiphenyl	GC22	A	03/23/06 22:42
185622-006	Aroclor-1016	GC22	A	03/23/06 23:09
185622-006	Aroclor-1221	GC22	A	03/23/06 23:09
185622-006	Aroclor-1232	GC22	A	03/23/06 23:09
185622-006	Aroclor-1242	GC22	A	03/23/06 23:09
185622-006	Aroclor-1248	GC22	A	03/23/06 23:09
185622-006	Aroclor-1254	GC22	A	03/23/06 23:09
185622-006	Aroclor-1260	GC22	A	03/23/06 23:09
185622-006	TCMX	GC22	A	03/23/06 23:09
185622-006	Decachlorobiphenyl	GC22	A	03/23/06 23:09
185622-020	Aroclor-1016	GC22	A	03/23/06 23:35
185622-020	Aroclor-1221	GC22	A	03/23/06 23:35
185622-020	Aroclor-1232	GC22	A	03/23/06 23:35
185622-020	Aroclor-1242	GC22	A	03/23/06 23:35
185622-020	Aroclor-1248	GC22	A	03/23/06 23:35
185622-020	Aroclor-1254	GC22	A	03/23/06 23:35
185622-020	Aroclor-1260	GC22	A	03/23/06 23:35
185622-020	TCMX	GC22	A	03/23/06 23:35
185622-020	Decachlorobiphenyl	GC22	A	03/23/06 23:35
185622-021	Aroclor-1016	GC22	A	03/24/06 00:01
185622-021	Aroclor-1221	GC22	A	03/24/06 00:01
185622-021	Aroclor-1232	GC22	A	03/24/06 00:01
185622-021	Aroclor-1242	GC22	A	03/24/06 00:01

REPORTING SUMMARY FOR 185622 PCBS Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185622-021	Aroclor-1248	GC22	A	03/24/06 00:01
185622-021	Aroclor-1254	GC22	A	03/24/06 00:01
185622-021	Aroclor-1260	GC22	A	03/24/06 00:01
185622-021	TCMX	GC22	A	03/24/06 00:01
185622-021	Decachlorobiphenyl	GC22	A	03/24/06 00:01
185622-022	Aroclor-1016	GC22	A	03/24/06 03:57
185622-022	Aroclor-1221	GC22	A	03/24/06 03:57
185622-022	Aroclor-1232	GC22	A	03/24/06 03:57
185622-022	Aroclor-1242	GC22	A	03/24/06 03:57
185622-022	Aroclor-1248	GC22	A	03/24/06 03:57
185622-022	Aroclor-1254	GC22	A	03/24/06 03:57
185622-022	Aroclor-1260	GC22	A	03/24/06 03:57
185622-022	TCMX	GC22	A	03/24/06 03:57
185622-022	Decachlorobiphenyl	GC22	A	03/24/06 03:57
185622-025	Aroclor-1016	GC22	A	03/24/06 04:24
185622-025	Aroclor-1221	GC22	A	03/24/06 04:24
185622-025	Aroclor-1232	GC22	A	03/24/06 04:24
185622-025	Aroclor-1242	GC22	A	03/24/06 04:24
185622-025	Aroclor-1248	GC22	A	03/24/06 04:24
185622-025	Aroclor-1254	GC22	A	03/24/06 04:24
185622-025	Aroclor-1260	GC22	A	03/24/06 04:24
185622-025	TCMX	GC22	A	03/24/06 04:24
185622-025	Decachlorobiphenyl	GC22	A	03/24/06 04:24
185622-026	Aroclor-1016	GC22	A	03/24/06 04:50
185622-026	Aroclor-1221	GC22	A	03/24/06 04:50
185622-026	Aroclor-1232	GC22	A	03/24/06 04:50
185622-026	Aroclor-1242	GC22	A	03/24/06 04:50
185622-026	Aroclor-1248	GC22	A	03/24/06 04:50
185622-026	Aroclor-1254	GC22	A	03/24/06 04:50
185622-026	Aroclor-1260	GC22	A	03/24/06 04:50
185622-026	TCMX	GC22	A	03/24/06 04:50
185622-026	Decachlorobiphenyl	GC22	A	03/24/06 04:50
185622-027	Aroclor-1016	GC22	A	03/24/06 05:16
185622-027	Aroclor-1221	GC22	A	03/24/06 05:16
185622-027	Aroclor-1232	GC22	A	03/24/06 05:16
185622-027	Aroclor-1242	GC22	A	03/24/06 05:16
185622-027	Aroclor-1248	GC22	A	03/24/06 05:16
185622-027	Aroclor-1254	GC22	A	03/24/06 05:16
185622-027	Aroclor-1260	GC22	A	03/24/06 05:16
185622-027	TCMX	GC22	A	03/24/06 05:16
185622-027	Decachlorobiphenyl	GC22	A	03/24/06 05:16
185622-030	Aroclor-1016	GC25	A	03/27/06 23:07
185622-030	Aroclor-1221	GC25	A	03/27/06 23:07
185622-030	Aroclor-1232	GC25	A	03/27/06 23:07
185622-030	Aroclor-1242	GC25	A	03/27/06 23:07
185622-030	Aroclor-1248	GC25	A	03/27/06 23:07
185622-030	Aroclor-1254	GC25	A	03/27/06 23:07
185622-030	Aroclor-1260	GC25	A	03/27/06 23:07
185622-030	TCMX	GC25	A	03/27/06 23:07

REPORTING SUMMARY FOR 185622 PCBS Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185622-030	Decachlorobiphenyl	GC25	A	03/27/06 23:07
185622-033	Aroclor-1016	GC25	A	03/27/06 23:33
185622-033	Aroclor-1221	GC25	A	03/27/06 23:33
185622-033	Aroclor-1232	GC25	A	03/27/06 23:33
185622-033	Aroclor-1242	GC25	A	03/27/06 23:33
185622-033	Aroclor-1248	GC25	A	03/27/06 23:33
185622-033	Aroclor-1254	GC25	A	03/27/06 23:33
185622-033	Aroclor-1260	GC25	A	03/27/06 23:33
185622-033	TCMX	GC25	A	03/27/06 23:33
185622-033	Decachlorobiphenyl	GC25	A	03/27/06 23:33
185622-034	Aroclor-1016	GC25	A	03/27/06 23:58
185622-034	Aroclor-1221	GC25	A	03/27/06 23:58
185622-034	Aroclor-1232	GC25	A	03/27/06 23:58
185622-034	Aroclor-1242	GC25	A	03/27/06 23:58
185622-034	Aroclor-1248	GC25	A	03/27/06 23:58
185622-034	Aroclor-1254	GC25	A	03/27/06 23:58
185622-034	Aroclor-1260	GC25	A	03/27/06 23:58
185622-034	TCMX	GC25	A	03/27/06 23:58
185622-034	Decachlorobiphenyl	GC25	A	03/27/06 23:58
185622-035	Aroclor-1016	GC25	A	03/28/06 00:24
185622-035	Aroclor-1221	GC25	A	03/28/06 00:24
185622-035	Aroclor-1232	GC25	A	03/28/06 00:24
185622-035	Aroclor-1242	GC25	A	03/28/06 00:24
185622-035	Aroclor-1248	GC25	A	03/28/06 00:24
185622-035	Aroclor-1254	GC25	A	03/28/06 00:24
185622-035	Aroclor-1260	GC25	A	03/28/06 00:24
185622-035	TCMX	GC25	A	03/28/06 00:24
185622-035	Decachlorobiphenyl	GC25	A	03/28/06 00:24
185622-036	Aroclor-1016	GC25	A	03/28/06 00:49
185622-036	Aroclor-1221	GC25	A	03/28/06 00:49
185622-036	Aroclor-1232	GC25	A	03/28/06 00:49
185622-036	Aroclor-1242	GC25	A	03/28/06 00:49
185622-036	Aroclor-1248	GC25	A	03/28/06 00:49
185622-036	Aroclor-1254	GC25	A	03/28/06 00:49
185622-036	Aroclor-1260	GC25	A	03/28/06 00:49
185622-036	TCMX	GC25	A	03/28/06 00:49
185622-036	Decachlorobiphenyl	GC25	A	03/28/06 00:49
185622-037	Aroclor-1016	GC25	A	03/28/06 01:15
185622-037	Aroclor-1221	GC25	A	03/28/06 01:15
185622-037	Aroclor-1232	GC25	A	03/28/06 01:15
185622-037	Aroclor-1242	GC25	A	03/28/06 01:15
185622-037	Aroclor-1248	GC25	A	03/28/06 01:15
185622-037	Aroclor-1254	GC25	A	03/28/06 01:15
185622-037	Aroclor-1260	GC25	A	03/28/06 01:15
185622-037	TCMX	GC25	A	03/28/06 01:15
185622-037	Decachlorobiphenyl	GC25	A	03/28/06 01:15
QC332578	Aroclor-1016	GC22	A	03/23/06 20:05
QC332578	Aroclor-1221	GC22	A	03/23/06 20:05

REPORTING SUMMARY FOR 185622 PCBS Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC332578	Aroclor-1232	GC22	A	03/23/06 20:05
QC332578	Aroclor-1242	GC22	A	03/23/06 20:05
QC332578	Aroclor-1248	GC22	A	03/23/06 20:05
QC332578	Aroclor-1254	GC22	A	03/23/06 20:05
QC332578	Aroclor-1260	GC22	A	03/23/06 20:05
QC332578	TCMX	GC22	A	03/23/06 20:05
QC332578	Decachlorobiphenyl	GC22	A	03/23/06 20:05
QC332990	Aroclor-1016	GC06	A	03/27/06 23:27
QC332990	Aroclor-1221	GC06	A	03/27/06 23:27
QC332990	Aroclor-1232	GC06	A	03/27/06 23:27
QC332990	Aroclor-1242	GC06	A	03/27/06 23:27
QC332990	Aroclor-1248	GC06	A	03/27/06 23:27
QC332990	Aroclor-1254	GC06	A	03/27/06 23:27
QC332990	Aroclor-1260	GC06	A	03/27/06 23:27
QC332990	TCMX	GC06	A	03/27/06 23:27
QC332990	Decachlorobiphenyl	GC06	A	03/27/06 23:27
QC332579	Aroclor-1221	GC22	A	03/23/06 20:31
QC332579	TCMX	GC22	A	03/23/06 20:31
QC332579	Decachlorobiphenyl	GC22	A	03/23/06 20:31
QC332580	Aroclor-1221	GC22	A	03/23/06 20:58
QC332580	TCMX	GC22	A	03/23/06 20:58
QC332580	Decachlorobiphenyl	GC22	A	03/23/06 20:58
QC332991	Aroclor-1221	GC06	A	03/27/06 23:55
QC332991	TCMX	GC06	A	03/27/06 23:55
QC332991	Decachlorobiphenyl	GC06	A	03/27/06 23:55
QC332992	Aroclor-1221	GC06	A	03/28/06 00:22
QC332992	TCMX	GC06	A	03/28/06 00:22
QC332992	Decachlorobiphenyl	GC06	A	03/28/06 00:22

Curtis & Tompkins Laboratories Sample Preparation Summary 23-MAR-2006 15:00

Batch Number : 111570
Date Extracted: 22-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : PCB
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2719B
Spike #2 ID : S2797A
Spike #3 ID :
SOP Version : PCB_w_rv7

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185586-009		Treadwell & Rollo	Water	1050	mL	25	0.023810	1	6	.05	0		PCB	3665A	
185622-003		Treadwell & Rollo	Water	1050	mL	25	0.023810	1	6	.05	0		PCB	3665A	
185622-004		Treadwell & Rollo	Water	1060	mL	25	0.023585	1	6	.05	0		PCB	3665A	
185622-005		Treadwell & Rollo	Water	1040	mL	25	0.024038	1	6	.05	0		PCB	3665A	
185622-006		Treadwell & Rollo	Water	1040	mL	25	0.024038	1	6	.05	0		PCB	3665A	
185622-020		Treadwell & Rollo	Water	1030	mL	25	0.024272	1	6	.05	0		PCB	3665A	
185622-021		Treadwell & Rollo	Water	1040	mL	25	0.024038	1	6	.05	0		PCB	3665A	
185622-022		Treadwell & Rollo	Water	1040	mL	25	0.024038	1	6	.05	0		PCB	3665A	
185622-025		Treadwell & Rollo	Water	1030	mL	25	0.024272	1	6	.05	0		PCB	3665A	
185622-026		Treadwell & Rollo	Water	1030	mL	25	0.024272	1	6	.05	0		PCB	3665A	
185622-027		Treadwell & Rollo	Water	1000	mL	25	0.025000	1	6	.05	0		PCB	3665A	
185690-001		CH2M Hill Constructors Inc.	Water	1000	mL	25	0.025000	1	6	.05	0		PCB	3665A	
QC332578	BLANK		Water	1000	mL	25	0.025000	1		.05	0		PCB	3665A	
QC332579	BS		Water	1000	mL	25	0.025000	1		.05	.05		PCB	3665A	
QC332580	BSD		Water	1000	mL	25	0.025000	1		.05	.05		PCB	3665A	

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Prep Chemist: SFK FOL JM Reviewed By: [signature] Date: 3/23/06

Relinquished By: Dan McG Received By: Jennifer Gargan Date: 3/24/06

Curtis & Tompkins, Ltd

PCB WATER PREP LOG

BK 2231
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LIMS Batch No: 111570
LIMS Analysis: PCB
Extracted by: JCM
Date Extracted: 22 Mar 06

Extraction Method:
- ☐ EPA 3510c Sep. Funnel
- ☒ EPA 3520c Continuous L/L
- ☐ Other _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Comments
185586-009J	1050	6	25.0	
185622-003I	1050			
04	1060			
05	1040			
06	1040			
20M	1030			
21M	1040			
22N	1040			
25L	1030			
26L	1030			
27I	1000			
185690-001E				
MB QC332578		NA		
BS 79				
BSD 80				
				DLM 3/23/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.05 mL of surrogate solution was added to all samples	527196	SPK 03/22/06
0.05 mL of spike solution AR1221 was added to all spikes	527199	
☒ Samples were continuously extracted with about 450 mL CH_2Cl_2	EM4460	
Extraction Start Time:	1330	
Extraction End Time:	0730	DLM 3/23/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM4511 8532	
Concentrated to volumes noted above after 2x exchange w/ Hexane lot#	CP890	
EPA 3665A Clean-up: Vortexed w/ 10mL H_2SO_4 lot #	JTB B24063	
Centrifuged for 1min; 10mL transferred to labelled vial	✓	

Extraction Chemist Date

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Continued on Page

Reviewed by Date

Curtis & Tompkins Laboratories **Sample Preparation Summary** **26-MAR-2006 15:50**

Batch Number : 111667
Date Extracted: 24-MAR-2006
Extracted by : Sandra Felipe Luna
Prep Method : 3520C

Analysis : PCB
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2984A
Spike #2 ID : S2797A
Spike #3 ID :
SOP Version : PCB_w_rv7

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185622-030		Treadwell & Rollo	Water	1030	mL	25	0.024272	1	7	.05	0		PCB	3665A	
185622-033		Treadwell & Rollo	Water	1060	mL	25	0.023585	1	7	.05	0		PCB	3665A	
185622-034		Treadwell & Rollo	Water	1030	mL	25	0.024272	1	7	.05	0		PCB	3665A	
185622-035		Treadwell & Rollo	Water	1020	mL	25	0.024510	1	6	.05	0		PCB	3665A	
185622-036		Treadwell & Rollo	Water	1060	mL	25	0.023585	1	7	.05	0		PCB	3665A	
185622-037		Treadwell & Rollo	Water	1060	mL	25	0.023585	1	7	.05	0		PCB	3665A	
185654-001		URS Corporation	Water	1060	mL	25	0.023585	1	7	.05	0		PCB	3665A	
185654-002		URS Corporation	Water	1060	mL	25	0.023585	1	7	.05	0		PCB	3665A	
185654-003		URS Corporation	Water	1060	mL	25	0.023585	1	7	.05	0		PCB	3665A	
185654-004		URS Corporation	Water	1060	mL	25	0.023585	1	7	.05	0		PCB	3665A	
185654-005		URS Corporation	Water	1050	mL	25	0.023810	1	7	.05	0		PCB	3665A	
QC332990	BLANK		Water	1000	mL	25	0.025000	1		.05	0		PCB	3665A	
QC332991	BS		Water	1000	mL	25	0.025000	1		.05	.05		PCB	3665A	
QC332992	BSD		Water	1000	mL	25	0.025000	1		.05	.05		PCB	3665A	

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Prep Chemist: _____ Reviewed By: _____ Date: 3/27/06

Relinquished By: _____ Received By: _____ Date: 3/28/06

Curtis & Tompkins, Ltd

PCB WATER PREP LOG

BK 2231
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LIMS Batch No: 111667
LIMS Analysis: PCB
Extracted by: SFL
Date Extracted: 3/24/06

Extraction Method:
- ☐ EPA 3510c Sep. Funnel
- ☑ EPA 3520c Continuous L/L
- ☐ Other _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Comments
185622-030	1030	7	25.0	
-033	1000	↓	↓	
-034	1030	↓	↓	
-035	1020	6	↓	
-036	1000	7	↓	
-037	↓	↓	↓	
185654-001	↓	↓	↓	
-002	↓	↓	↓	
-003	↓	↓	↓	
-004	↓	↓	↓	
-005	1050	↓	↓	
MB QC 332090	1000	N/A	↓	
BS 91	↓	↓	↓	
BSD 92	↓	↓	↓	

SFL 3/24/06

Mfg & Lot# / LIMS # / Time	Date/ Initials
S2984A	SFL 3/24/06
~~S2984A~~ ~~SFL 3/24/06~~ S2797A	↓
EM46060	↓
1412	↓
1020	3/25/06 12:12
N/A	SFL 3/24/06
EM451 85532	↓
CP890	↓
JTB B24663	↓
✓	↓

0.05 mL of surrogate solution was added to all samples

0.05 mL of spike solution AT 122 was added to all spikes

☑ Samples were continuously extracted with about 450 mL CH_2Cl_2

Extraction Start Time:

Extraction End Time:

☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2

Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4

Concentrated to volumes noted above after 2x exchange w/ Hexane lot#

EPA 3665A Clean-up: Vortexed w/ 10mL H_2SO_4 lot #

Centrifuged for 1min; 10mL transferred to labelled vial

3/24/06

Extraction Chemist **Date**

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Contined from Page _____

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3/27/06

Reviewed by **Date**

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8082 Water
As of 04/13/06

Analyte	Units	GC06 A	GC06 B	GC22 A	GC22 B	GC25 A	GC25 B
Aroclor-1016	ug/L	0.054	0.054	0.058	0.029	0.11	0.12
Aroclor-1221	ug/L	0.31	0.29	0.41	0.33	0.37	0.63
Aroclor-1232	ug/L	0.11	0.088	0.19	0.34	0.16	0.087
Aroclor-1242	ug/L	0.15	0.16	0.24	0.22	0.14	0.15
Aroclor-1248	ug/L	0.30	0.34	0.097	0.061	0.038	0.051
Aroclor-1254	ug/L	0.086	0.11	0.11	0.14	0.12	0.13
Aroclor-1260	ug/L	0.079	0.14	0.059	0.037	0.097	0.12

POLYAROMATIC HYDROCARBONS

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	LF08GW02B	Batch#:	111569
Lab ID:	185622-003	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/22/06
Diln Fac:	1.000	Analyzed:	03/24/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	91	65-135
1-Methylnaphthalene (F)	85	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	LF08GW03	Batch#:	111569
Lab ID:	185622-004	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/22/06
Diln Fac:	1.000	Analyzed:	03/25/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	91	65-135
1-Methylnaphthalene (F)	84	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	LF08GW04	Batch#:	111569
Lab ID:	185622-005	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/22/06
Diln Fac:	1.000	Analyzed:	03/25/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.95	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.95	
Fluorene	ND	0.95	
Phenanthrene	ND	0.48	
Anthracene	ND	0.48	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	90	65-135
1-Methylnaphthalene (F)	83	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	DUP0316064A	Batch#:	111569
Lab ID:	185622-006	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/22/06
Diln Fac:	1.000	Analyzed:	03/25/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.96	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.96	
Fluorene	ND	0.96	
Phenanthrene	ND	0.48	
Anthracene	ND	0.48	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	86	65-135
1-Methylnaphthalene (F)	80	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	DAEGW101	Batch#:	111569
Lab ID:	185622-020	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/22/06
Diln Fac:	1.000	Analyzed:	03/25/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.97	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.97	
Fluorene	ND	0.97	
Phenanthrene	ND	0.49	
Anthracene	ND	0.49	0.008
Fluoranthene	ND	0.39	0.02
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	88	65-135
1-Methylnaphthalene (F)	82	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	DAEGW102	Batch#:	111623
Lab ID:	185622-021	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/23/06
Diln Fac:	1.000	Analyzed:	03/24/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.96	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.96	
Fluorene	ND	0.96	
Phenanthrene	ND	0.48	
Anthracene	ND	0.48	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	89	65-135
1-Methylnaphthalene (F)	84	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	DAEGW104	Batch#:	111623
Lab ID:	185622-022	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/23/06
Diln Fac:	1.000	Analyzed:	03/24/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.96	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.96	
Fluorene	ND	0.96	
Phenanthrene	ND	0.48	
Anthracene	ND	0.48	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	90	65-135
1-Methylnaphthalene (F)	85	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	DAEGW06	Batch#:	111623
Lab ID:	185622-023	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/23/06
Diln Fac:	1.000	Analyzed:	03/24/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.97	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.97	
Fluorene	ND	0.97	
Phenanthrene	ND	0.49	
Anthracene	ND	0.49	0.008
Fluoranthene	ND	0.39	0.02
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	92	65-135
1-Methylnaphthalene (F)	87	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	1349MW01	Batch#:	111623
Lab ID:	185622-024	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/23/06
Diln Fac:	1.000	Analyzed:	03/24/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.98	
Acenaphthylene	ND	2.0	
Acenaphthene	ND	0.98	
Fluorene	ND	0.98	
Phenanthrene	ND	0.49	
Anthracene	ND	0.49	0.008
Fluoranthene	ND	0.39	0.02
Pyrene	ND	0.20	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	91	65-135
1-Methylnaphthalene (F)	86	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	1349MW03R	Batch#:	111623
Lab ID:	185622-025	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/23/06
Diln Fac:	1.000	Analyzed:	03/24/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.97	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.97	
Fluorene	ND	0.97	
Phenanthrene	ND	0.49	
Anthracene	ND	0.49	0.008
Fluoranthene	ND	0.39	0.02
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	93	65-135
1-Methylnaphthalene (F)	88	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	1349MW100	Batch#:	111623
Lab ID:	185622-026	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/23/06
Diln Fac:	1.000	Analyzed:	03/25/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.96	
Acenaphthylene	ND	1.9	
Acenaphthene	6.6	0.96	
Fluorene	10	0.96	
Phenanthrene	9.0	0.48	
Anthracene	0.36 J	0.48	0.008
Fluoranthene	2.3	0.38	0.01
Pyrene	0.75	0.19	
Benzo(a)anthracene	0.35	0.10	
Chrysene	0.29	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	131	65-135
1-Methylnaphthalene (F)	114	65-135

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	1349MW101	Batch#:	111623
Lab ID:	185622-027	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/23/06
Diln Fac:	1.000	Analyzed:	03/24/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.96	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.96	
Fluorene	ND	0.96	
Phenanthrene	ND	0.48	
Anthracene	ND	0.48	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	95	65-135
1-Methylnaphthalene (F)	89	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	LF6GW101	Batch#:	111665
Lab ID:	185622-030	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/24/06
Diln Fac:	1.000	Analyzed:	03/27/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.95	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.95	
Fluorene	ND	0.95	
Phenanthrene	ND	0.48	
Anthracene	ND	0.48	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	92	65-135
1-Methylnaphthalene (F)	87	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	LF6GW104	Batch#:	111665
Lab ID:	185622-031	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/24/06
Diln Fac:	1.000	Analyzed:	03/27/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.95	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.95	
Fluorene	ND	0.95	
Phenanthrene	ND	0.48	
Anthracene	ND	0.48	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	87	65-135
1-Methylnaphthalene (F)	81	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	LF08GW01	Batch#:	111665
Lab ID:	185622-033	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/24/06
Diln Fac:	1.000	Analyzed:	03/28/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	91	65-135
1-Methylnaphthalene (F)	86	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	LF08GW06	Batch#:	111665
Lab ID:	185622-034	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/24/06
Diln Fac:	1.000	Analyzed:	03/27/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.95	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.95	
Fluorene	ND	0.95	
Phenanthrene	ND	0.48	
Anthracene	ND	0.48	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	89	65-135
1-Methylnaphthalene (F)	84	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	LF08GW06RB01	Batch#:	111665
Lab ID:	185622-035	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/24/06
Diln Fac:	1.000	Analyzed:	03/27/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.99	
Acenaphthylene	ND	2.0	
Acenaphthene	ND	0.99	
Fluorene	ND	0.99	
Phenanthrene	ND	0.50	
Anthracene	ND	0.50	0.008
Fluoranthene	ND	0.40	0.02
Pyrene	ND	0.20	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	90	65-135
1-Methylnaphthalene (F)	85	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	LF6GW100	Batch#:	111665
Lab ID:	185622-036	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/24/06
Diln Fac:	1.000	Analyzed:	03/27/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	85	65-135
1-Methylnaphthalene (F)	80	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	LF6GW103	Batch#:	111665
Lab ID:	185622-037	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/24/06
Diln Fac:	1.000	Analyzed:	03/27/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	85	65-135
1-Methylnaphthalene (F)	81	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332575	Batch#:	111569
Matrix:	Water	Prepared:	03/22/06
Units:	ug/L	Analyzed:	03/23/06

Analyte	Result	RL	MDL
Naphthalene	ND	1.0	
Acenaphthylene	ND	2.0	
Acenaphthene	ND	1.0	
Fluorene	ND	1.0	
Phenanthrene	ND	0.50	
Anthracene	ND	0.50	0.008
Fluoranthene	ND	0.40	0.02
Pyrene	ND	0.20	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	89	65-135
1-Methylnaphthalene (F)	85	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332808	Batch#:	111623
Matrix:	Water	Prepared:	03/23/06
Units:	ug/L	Analyzed:	03/24/06

Analyte	Result	RL	MDL
Naphthalene	ND	1.0	
Acenaphthylene	ND	2.0	
Acenaphthene	ND	1.0	
Fluorene	ND	1.0	
Phenanthrene	ND	0.50	
Anthracene	ND	0.50	0.008
Fluoranthene	ND	0.40	0.02
Pyrene	ND	0.20	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	95	65-135
1-Methylnaphthalene (F)	89	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332984	Batch#:	111665
Matrix:	Water	Prepared:	03/24/06
Units:	ug/L	Analyzed:	03/27/06

Analyte	Result	RL	MDL
Naphthalene	ND	1.0	
Acenaphthylene	ND	2.0	
Acenaphthene	ND	1.0	
Fluorene	ND	1.0	
Phenanthrene	ND	0.50	
Anthracene	ND	0.50	0.008
Fluoranthene	ND	0.40	0.02
Pyrene	ND	0.20	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	80	65-135
1-Methylnaphthalene (F)	76	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Matrix:	Water	Batch#:	111569
Units:	ug/L	Prepared:	03/22/06
Diln Fac:	1.000	Analyzed:	03/23/06

Type: BS Lab ID: QC332576

Analyte	Spiked	Result	%REC	Limits
Naphthalene	10.00	8.706	87	50-135
Fluorene	2.000	1.818	91	65-135
Pyrene	1.000	0.9276	93	65-135
Benzo(a)pyrene	1.000	0.8554	86	65-135

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	85	65-135
1-Methylnaphthalene (F)	80	65-135

Type: BSD Lab ID: QC332577

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Naphthalene	10.00	8.722	87	50-135	0	35
Fluorene	2.000	1.807	90	65-135	1	35
Pyrene	1.000	0.9420	94	65-135	2	35
Benzo(a)pyrene	1.000	0.9142	91	65-135	7	35

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	84	65-135
1-Methylnaphthalene (F)	80	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Matrix:	Water	Batch#:	111623
Units:	ug/L	Prepared:	03/23/06
Diln Fac:	1.000	Analyzed:	03/24/06

Type: BS Lab ID: QC332809

Analyte	Spiked	Result	%REC	Limits
Naphthalene	10.00	9.060	91	50-135
Fluorene	2.000	1.887	94	65-135
Pyrene	1.000	0.9616	96	65-135
Benzo(a)pyrene	1.000	0.9338	93	65-135

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	91	65-135
1-Methylnaphthalene (F)	86	65-135

Type: BSD Lab ID: QC332810

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Naphthalene	10.00	9.179	92	50-135	1	35
Fluorene	2.000	1.884	94	65-135	0	35
Pyrene	1.000	0.9712	97	65-135	1	35
Benzo(a)pyrene	1.000	0.9291	93	65-135	1	35

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	91	65-135
1-Methylnaphthalene (F)	85	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Matrix:	Water	Batch#:	111665
Units:	ug/L	Prepared:	03/24/06
Diln Fac:	1.000	Analyzed:	03/27/06

Type: BS Lab ID: QC332985

Analyte	Spiked	Result	%REC	Limits
Naphthalene	10.00	9.459	95	50-135
Fluorene	2.000	1.932	97	65-135
Pyrene	1.000	0.9083	91	65-135
Benzo(a)pyrene	1.000	0.9237	92	65-135

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	92	65-135
1-Methylnaphthalene (F)	87	65-135

Type: BSD Lab ID: QC332986

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Naphthalene	10.00	9.288	93	50-135	2	35
Fluorene	2.000	1.870	93	65-135	3	35
Pyrene	1.000	0.8832	88	65-135	3	35
Benzo(a)pyrene	1.000	0.8894	89	65-135	4	35

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	90	65-135
1-Methylnaphthalene (F)	85	65-135

RPD= Relative Percent Difference

Confirmation Report for 185622 HPLC Water
Curtis & Tompkins Laboratories

Units: ug/L

Lab ID	Client ID	Analyte	Result	Confirmation	RPD	%D
185622-026	1349MW100	Acenaphthene	6.638	4.099	47	-38
185622-026	1349MW100	Fluorene	10.47	6.561	46	-37
185622-026	1349MW100	Phenanthrene	9.003	6.777	28	-25
185622-026	1349MW100	Anthracene	0.3618 J	1.397	118	286
185622-026	1349MW100	Fluoranthene	2.288	9.800	124	328
185622-026	1349MW100	Pyrene	0.7482	25.11	188	3256
185622-026	1349MW100	Benzo(a)anthracene	0.3470	1.895	138	446
185622-026	1349MW100	Chrysene	0.2946	0.8097	93	175

J=estimated

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185622 HPLC Water: EPA 8310

Inst : HPLC04
Calnum : 295454249001
Units : ug/L

Date : 11-NOV-2005 13:27
X Axis : R

Reviewer: MCH
Inj Vol : 10 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	31500006	295454249006		11-NOV-2005 13:27	S1620
L2	31500007	295454249007		11-NOV-2005 13:58	S1619
L3	31500008	295454249008		11-NOV-2005 14:30	S1618
L4	31500009	295454249009		11-NOV-2005 15:02	S1617
L5	31500010	295454249010		11-NOV-2005 15:33	S1616
L6	31500011	295454249011		11-NOV-2005 16:05	S1615
L7	31500012	295454249012		11-NOV-2005 16:36	S1614

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Naphthalene	1	0.0130	0.0130	0.0130	0.0132	0.0131	0.0129	0.0130	LINR	-24.714	77.1181		0.0130	1.000	0.99	20	
Acenaphthylene	1	0.0092	0.0091	0.0093	0.0095	0.0094	0.0092	0.0091	LINR	-214.44	109.425		0.0093	1.000	0.99	20	
Acenaphthene	1	0.0049	0.0049	0.0051	0.0052	0.0051	0.0050	0.0050	LINR	-85.609	200.350		0.0050	1.000	0.99	20	
Fluorene	1	0.0623	0.0618	0.0631	0.0639	0.0633	0.0627	0.0629	LINR	-2.8635	15.9062		0.0629	1.000	0.99	20	
Phenanthrene	1	0.1801	0.1766	0.1803	0.1826	0.1801	0.1784	0.1795	LINR	-1.3045	5.57871		0.1797	1.000	0.99	20	
Anthracene	1	0.4031	0.4032	0.4080	0.4134	0.4084	0.4043	0.4050	LINR	-3.4533	2.47159		0.4065	1.000	0.99	20	
Fluoranthene	1	0.0405	0.0401	0.0407	0.0416	0.0411	0.0407	0.0412	LINR	4.76117	24.3260		0.0408	1.000	0.99	20	
Pyrene	1	0.0324	0.0319	0.0332	0.0334	0.0330	0.0331	0.0336	LINR	8.56100	29.7835		0.0329	1.000	0.99	20	
Benzo(a)anthracene	1	0.0846	0.0904	0.0906	0.0917	0.0910	0.0903	0.0918	LINR	6.16312	10.9120		0.0901	1.000	0.99	20	
Chrysene	1	0.1299	0.1298	0.1319	0.1351	0.1332	0.1321	0.1335	LINR	2.64524	7.49865		0.1322	1.000	0.99	20	
Benzo(b)fluoranthene	1	0.0989	0.1025	0.1054	0.1076	0.1069	0.1059	0.1068	LINR	5.37165	9.37329		0.1049	1.000	0.99	20	
Benzo(k)fluoranthene	1	0.0806	0.0758	0.0785	0.0804	0.0803	0.0803	0.0814	LINR	9.05452	12.2962		0.0796	1.000	0.99	20	
Benzo(a)pyrene	1	0.0781	0.0812	0.0842	0.0867	0.0863	0.0861	0.0870	LINR	8.12100	11.4914		0.0842	1.000	0.99	20	
Dibenz(a,h)anthracene	1	0.0174	0.0209	0.0203	0.0209	0.0211	0.0213	0.0216	LINR	28.9418	46.3202		0.0205	1.000	0.99	20	
Benzo(g,h,i)perylene	1	0.0332	0.0346	0.0347	0.0354	0.0353	0.0353	0.0357	LINR	17.3259	27.9927		0.0349	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	1	0.0843	0.0838	0.0916	0.0948	0.0947	0.0946	0.0953	LINR	8.70680	10.4860		0.0913	1.000	0.99	20	
1-Methylnaphthalene (UV)	1	0.0084	0.0085	0.0086	0.0086	0.0085	0.0084	0.0084	LINR	-262.66	119.128		0.0085	1.000	0.99	20	
Acenaphthylene	2	0.0273	0.0273	0.0279	0.0282	0.0280	0.0277	0.0279	LINR	7.54152	35.8750		0.0277	1.000	0.99	20	
1-Methylnaphthalene (UV)	2	0.0030	0.0030	0.0031	0.0031	0.0031	0.0030	0.0030	LINR	-125.29	329.273		0.0031	1.000	0.99	20	
Naphthalene	3	0.0118	0.0118	0.0118	0.0119	0.0119	0.0117	0.0116	LINR	-94.622	86.2298		0.0118	1.000	0.99	20	
Acenaphthene	3	0.0242	0.0241	0.0242	0.0246	0.0244	0.0239		LINR	-65.047	41.8154		0.0242	1.000	0.99	20	
Fluorene	3	0.1329	0.1328	0.1337	0.1349	0.1333	0.1303		LINR	-17.920	7.68242		0.1330	1.000	0.99	20	
Phenanthrene	3	0.1403	0.1414	0.1416	0.1432	0.1419	0.1386	0.1387	LINR	-8.7849	7.22392		0.1408	1.000	0.99	20	
Anthracene	3	0.4105	0.4089	0.4142	0.4203	0.4141	0.4106	0.4119	LINR	-2.5156	2.43034		0.4129	1.000	0.99	20	
Fluoranthene	3	0.0408	0.0402	0.0409	0.0415	0.0411	0.0406	0.0409	LINR	-2.6821	24.5038		0.0409	1.000	0.99	20	
Pyrene	3	0.1357	0.1319	0.1342	0.1369	0.1342	0.1312	0.1332	LINR	-2.1762	7.53143		0.1339	1.000	0.99	20	

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295454249001

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Benzo(a)anthracene	3	0.1507	0.1492	0.1525	0.1551	0.1526	0.1506	0.1519	LINR	-1.3548	6.59583		0.1518	1.000	0.99	20	
Chrysene	3	0.1830	0.1826	0.1864	0.1898	0.1872	0.1843	0.1845	LINR	-5.3078	5.42554		0.1854	1.000	0.99	20	
Benzo(b)fluoranthene	3	0.0661	0.0655	0.0671	0.0681	0.0672	0.0664	0.0670	LINR	-0.3738	14.9546		0.0668	1.000	0.99	20	
Benzo(k)fluoranthene	3	0.3904	0.3881	0.3960	0.4014	0.3974	0.3923	0.3904	LINR	-7.1975	2.56238		0.3937	1.000	0.99	20	
Benzo(a)pyrene	3	0.2124	0.2112	0.2162	0.2193	0.2168	0.2137	0.2143	LINR	-3.8765	4.67175		0.2148	1.000	0.99	20	
Dibenz(a,h)anthracene	3	0.0298	0.0299	0.0311	0.0319	0.0317	0.0316	0.0320	LINR	14.7159	31.2756		0.0311	1.000	0.99	20	
Benzo(g,h,i)perylene	3	0.0617	0.0613	0.0626	0.0641	0.0636	0.0633	0.0639	LINR	8.49542	15.6646		0.0629	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	3	0.0928	0.0930	0.0946	0.0968	0.0967	0.0963	0.0973	LINR	6.16011	10.2852		0.0953	1.000	0.99	20	
1-Methylnaphthalene (F)	3	0.0132	0.0131	0.0132	0.0133	0.0132	0.0128		LINR	-457.43	78.4104		0.0131	1.000	0.99	20	

LINR=Linear regression

Instrument amount = a0 + response * a1 + response^2 * a2

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Calibration Table

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NEW ICAL. Jm 14 NOV 2005

HPLC04 METHOD 8310

Calib. Data Modified : 11/14/2005 4:07:02 PM

Calculate : External Standard
Based on : Peak Area

mcs 11/15/05

Rel. Reference Window : 1.000 %
Abs. Reference Window : 0.200 min
Rel. Non-ref. Window : 1.000 %
Abs. Non-ref. Window : 0.250 min
Do not use Multiplier & Dilution Factor with ISTDs
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Signal 1: DAD1 A, Sig=254,4 Ref=480,80
Signal 2: DAD1 B, Sig=305,4 Ref=480,80
Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
4.798	1	1	500.00000	6.51225	76.77836			Naphthalene
		2	1000.00000	13.02439	76.77905			
		3	2500.00000	32.45070	77.03995			
		4	5000.00000	65.81794	75.96713			
		5	1.00000e4	130.82538	76.43777			
		6	2.50000e4	323.61371	77.25260			
		7	5.00000e4	648.90906	77.05240			
4.839	3	1	500.00000	5.89779	84.77755			Naphthalene
		2	1000.00000	11.75017	85.10517			
		3	2500.00000	29.52386	84.67727			
		4	5000.00000	59.72798	83.71286			
		5	1.00000e4	118.70710	84.24096			
		6	2.50000e4	292.13416	85.57712			
		7	5.00000e4	580.05115	86.19930			
6.052	1	1	1000.00000	9.19383	108.76859			Acenaphthylene
		2	2000.00000	18.17297	110.05354			
		3	5000.00000	46.41474	107.72440			
		4	1.00000e4	94.72365	105.57026			
		5	2.00000e4	187.69478	106.55597			
		6	5.00000e4	461.84637	108.26111			
		7	1.00000e5	913.74396	109.43985			
6.053	2	1	1000.00000	27.33126	36.58814			Acenaphthylene
		2	2000.00000	54.50918	36.69107			
		3	5000.00000	139.26938	35.90165			

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		4	1.00000e4	281.69171	35.49980			
		5	2.00000e4	559.80969	35.72643			
		6	5.00000e4	1386.26819	36.06806			
		7	1.00000e5	2790.07104	35.84138			
6.831	1	1	2000.00000	16.88634	118.43892			1-Methylnaphthalene (UV)
		2	4000.00000	33.87627	118.07677			
		3	1.00000e4	85.59682	116.82676			
		4	2.00000e4	172.90190	115.67253			
		5	4.00000e4	341.59979	117.09609			
		6	1.00000e5	839.73962	119.08453			
		7	2.00000e5	1681.10107	118.96965			
6.832	2	1	2000.00000	6.07634	329.14529			1-Methylnaphthalene (UV)
		2	4000.00000	12.02570	332.62101			
		3	1.00000e4	30.92526	323.36029			
		4	2.00000e4	62.05173	322.31170			
		5	4.00000e4	122.53880	326.42721			
		6	1.00000e5	302.71973	330.33856			
		7	2.00000e5	608.23541	328.82005			
6.872	3	1	2000.00000	26.32489	75.97373			1-Methylnaphthalene (F)
		2	4000.00000	52.31355	76.46202			
		3	1.00000e4	131.50134	76.04485			
		4	2.00000e4	266.55655	75.03098			
		5	4.00000e4	526.67639	75.94796			
		6	1.00000e5	1276.22900	78.35584			
7.280	1	1	500.00000	5.56723	89.81128			2-Methylnaphthalene
		2	1000.00000	11.21599	89.15845			
		3	2500.00000	28.88600	86.54713			
		4	5000.00000	58.62328	85.29035			
		5	1.00000e4	116.21339	86.04861			
		6	2.50000e4	286.22339	87.34436			
7.335	3	1	500.00000	7.99274	62.55677			2-Methylnaphthalene
		2	1000.00000	15.91236	62.84423			
		3	2500.00000	40.03383	62.44718			
		4	5000.00000	81.15388	61.61135			
		5	1.00000e4	161.03452	62.09849			
		6	2.50000e4	395.10352	63.27456			
7.672	1	1	500.00000	2.42577	206.12028			Acenaphthene
		2	1000.00000	4.86201	205.67637			
		3	2500.00000	12.71169	196.66929			
		4	5000.00000	25.83322	193.54924			
		5	1.00000e4	51.07816	195.77838			
		6	2.50000e4	125.66128	198.94752			
		7	5.00000e4	249.59686	200.32303			
7.712	3	1	500.00000	12.09695	41.33272			Acenaphthene
		2	1000.00000	24.11610	41.46607			
		3	2500.00000	60.52220	41.30716			
		4	5000.00000	122.93717	40.67118			
		5	1.00000e4	243.99982	40.98364			
		6	2.50000e4	597.90503	41.81266			
8.199	1	1	100.00000	6.23287	16.04397			Fluorene
		2	200.00000	12.36933	16.16903			
		3	500.00000	31.54358	15.85108			
		4	1000.00000	63.90393	15.64849			
		5	2000.00000	126.50168	15.81007			
		6	5000.00000	313.40030	15.95404			
		7	1.00000e4	629.23938	15.89220			
8.239	3	1	100.00000	13.29075	7.52403			Fluorene
		2	200.00000	26.56478	7.52876			
		3	500.00000	66.85545	7.47882			
		4	1000.00000	134.87556	7.41424			
		5	2000.00000	266.58530	7.50229			
		6	5000.00000	651.29639	7.67700			
9.318	1	1	50.00000	9.00343	5.55344			Phenanthrene

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	100.00000	17.66359	5.66136			
		3	250.00000	45.08168	5.54549			
		4	500.00000	91.29965	5.47647			
		5	1000.00000	180.14212	5.55117			
		6	2500.00000	446.01529	5.60519			
		7	5000.00000	897.40991	5.57159			
9.358	3	1	50.00000	7.01743	7.12511			Phenanthrene
		2	100.00000	14.14166	7.07130			
		3	250.00000	35.38944	7.06425			
		4	500.00000	71.59289	6.98393			
		5	1000.00000	141.86461	7.04897			
		6	2500.00000	346.48584	7.21530			
		7	5000.00000	693.25409	7.21236			
10.346	1	1	50.00000	20.15521	2.48075			Anthracene
		2	100.00000	40.32065	2.48012			
		3	250.00000	101.99684	2.45106			
		4	500.00000	206.70654	2.41889			
		5	1000.00000	408.35837	2.44883			
		6	2500.00000	1010.66217	2.47363			
		7	5000.00000	2024.80078	2.46938			
10.386	3	1	50.00000	20.52480	2.43608			Anthracene
		2	100.00000	40.89180	2.44548			
		3	250.00000	103.54391	2.41443			
		4	500.00000	210.14381	2.37932			
		5	1000.00000	414.05106	2.41516			
		6	2500.00000	1026.49353	2.43548			
		7	5000.00000	2059.37134	2.42793			
11.504	1	1	100.00000	4.05160	24.68162			Fluoranthene
		2	200.00000	8.01856	24.94213			
		3	500.00000	20.35011	24.56989			
		4	1000.00000	41.57235	24.05445			
		5	2000.00000	82.13621	24.34980			
		6	5000.00000	203.73349	24.54187			
		7	1.00000e4	411.60339	24.29523			
11.543	3	1	100.00000	4.08160	24.50019			Fluoranthene
		2	200.00000	8.04222	24.86875			
		3	500.00000	20.46036	24.43750			
		4	1000.00000	41.54289	24.07151			
		5	2000.00000	82.12543	24.35299			
		6	5000.00000	203.17122	24.60978			
		7	1.00000e4	408.57028	24.47559			
12.274	1	1	50.00000	1.62059	30.85291			Pyrene
		2	100.00000	3.19098	31.33834			
		3	250.00000	8.29422	30.14147			
		4	500.00000	16.68730	29.96290			
		5	1000.00000	32.97289	30.32795			
		6	2500.00000	82.77225	30.20336			
		7	5000.00000	168.06082	29.75113			
12.313	3	1	50.00000	6.78313	7.37123			Pyrene
		2	100.00000	13.19262	7.58000			
		3	250.00000	33.54156	7.45344			
		4	500.00000	68.45862	7.30368			
		5	1000.00000	134.23868	7.44942			
		6	2500.00000	328.05682	7.62063			
		7	5000.00000	665.85370	7.50916			
15.125	1	1	50.00000	4.23180	11.81530			Benzo(a)anthracene
		2	100.00000	9.04188	11.05964			
		3	250.00000	22.65013	11.03746			
		4	500.00000	45.84408	10.90653			
		5	1000.00000	91.03773	10.98446			
		6	2500.00000	225.67519	11.07787			
		7	5000.00000	459.00107	10.89322			
15.164	3	1	50.00000	7.53349	6.63703			Benzo(a)anthracene

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	100.00000	14.92142	6.70177			
		3	250.00000	38.11910	6.55839			
		4	500.00000	77.56648	6.44608			
		5	1000.00000	152.59743	6.55319			
		6	2500.00000	376.53439	6.63950			
		7	5000.00000	759.30841	6.58494			
15.624	1	1	50.00000	6.49550	7.69764			Chrysene
		2	100.00000	12.97757	7.70560			
		3	250.00000	32.97633	7.58119			
		4	500.00000	67.56745	7.40001			
		5	1000.00000	133.20935	7.50698			
		6	2500.00000	330.15082	7.57230			
		7	5000.00000	667.71228	7.48826			
15.664	3	1	50.00000	9.15220	5.46317			Chrysene
		2	100.00000	18.25678	5.47742			
		3	250.00000	46.59403	5.36549			
		4	500.00000	94.90897	5.26821			
		5	1000.00000	187.15659	5.34312			
		6	2500.00000	460.78613	5.42551			
		7	5000.00000	922.53937	5.41982			
17.842	1	1	100.00000	9.89154	10.10965			Benzo(b)fluoranthene
		2	200.00000	20.49215	9.75983			
		3	500.00000	52.71000	9.48587			
		4	1000.00000	107.62183	9.29180			
		5	2000.00000	213.82385	9.35349			
		6	5000.00000	529.55377	9.44191			
		7	1.00000e4	1067.59534	9.36684			
17.883	3	1	100.00000	6.61389	15.11970			Benzo(b)fluoranthene
		2	200.00000	13.10739	15.25857			
		3	500.00000	33.56808	14.89510			
		4	1000.00000	68.05548	14.69389			
		5	2000.00000	134.33257	14.88842			
		6	5000.00000	331.92670	15.06357			
		7	1.00000e4	669.70776	14.93189			
18.796	1	1	50.00000	4.03241	12.39953			Benzo(k)fluoranthene
		2	100.00000	7.57503	13.20127			
		3	250.00000	19.62153	12.74110			
		4	500.00000	40.20050	12.43765			
		5	1000.00000	80.29658	12.45383			
		6	2500.00000	200.76387	12.45244			
		7	5000.00000	406.82126	12.29041			
18.837	3	1	50.00000	19.52037	2.56143			Benzo(k)fluoranthene
		2	100.00000	38.80871	2.57674			
		3	250.00000	99.01035	2.52499			
		4	500.00000	200.72287	2.49100			
		5	1000.00000	397.35812	2.51662			
		6	2500.00000	980.66785	2.54928			
		7	5000.00000	1952.04028	2.56142			
19.734	1	1	50.00000	3.90437	12.80616			Benzo(a)pyrene
		2	100.00000	8.12252	12.31145			
		3	250.00000	21.05889	11.87147			
		4	500.00000	43.33799	11.53722			
		5	1000.00000	86.29072	11.58873			
		6	2500.00000	215.14328	11.62016			
		7	5000.00000	435.20081	11.48895			
19.774	3	1	50.00000	10.62241	4.70703			Benzo(a)pyrene
		2	100.00000	21.12371	4.73402			
		3	250.00000	54.04917	4.62542			
		4	500.00000	109.65622	4.55970			
		5	1000.00000	216.76112	4.61337			
		6	2500.00000	534.25336	4.67943			
		7	5000.00000	1071.43713	4.66663			
21.335	1	1	100.00000	1.74457	57.32080			Dibenz(a,h)anthracene

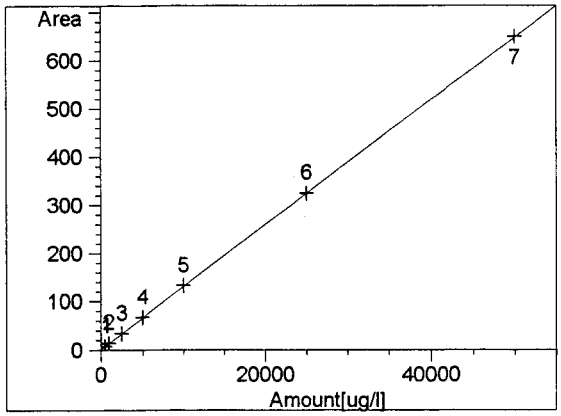
Method G:\HPLC4\METHODS\8310-315.M

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	200.00000	4.18672	47.77004			
		3	500.00000	10.15091	49.25669			
		4	1000.00000	20.86957	47.91665			
		5	2000.00000	42.28377	47.29947			
		6	5000.00000	106.57118	46.91700			
		7	1.00000e4	215.69028	46.36278			
21.376	3	1	100.00000	2.98045	33.55199			Dibenz(a,h)anthracene
		2	200.00000	5.97678	33.46283			
		3	500.00000	15.56407	32.12527			
		4	1000.00000	31.90387	31.34416			
		5	2000.00000	63.43048	31.53058			
		6	5000.00000	158.05646	31.63427			
		7	1.00000e4	319.90201	31.25957			
22.099	1	1	100.00000	3.32142	30.10762			Benzo(g,h,i)perylene
		2	200.00000	6.91262	28.93260			
		3	500.00000	17.35672	28.80728			
		4	1000.00000	35.38666	28.25924			
		5	2000.00000	70.51058	28.36454			
		6	5000.00000	176.29678	28.36127			
		7	1.00000e4	357.48672	27.97307			
22.140	3	1	100.00000	6.17302	16.19953			Benzo(g,h,i)perylene
		2	200.00000	12.25580	16.31880			
		3	500.00000	31.30061	15.97413			
		4	1000.00000	64.07645	15.60636			
		5	2000.00000	127.25459	15.71653			
		6	5000.00000	316.47900	15.79884			
		7	1.00000e4	638.82190	15.65382			
22.620	1	1	50.00000	4.21460	11.86352			Indeno(1,2,3-cd)pyrene
		2	100.00000	8.38093	11.93185			
		3	250.00000	22.88771	10.92289			
		4	500.00000	47.41936	10.54422			
		5	1000.00000	94.73141	10.55616			
		6	2500.00000	236.57013	10.56769			
		7	5000.00000	476.41440	10.49506			
22.661	3	1	50.00000	4.64120	10.77307			Indeno(1,2,3-cd)pyrene
		2	100.00000	9.29544	10.75796			
		3	250.00000	23.65410	10.56899			
		4	500.00000	48.39191	10.33231			
		5	1000.00000	96.65224	10.34637			
		6	2500.00000	240.76752	10.38346			
		7	5000.00000	486.34088	10.28085			

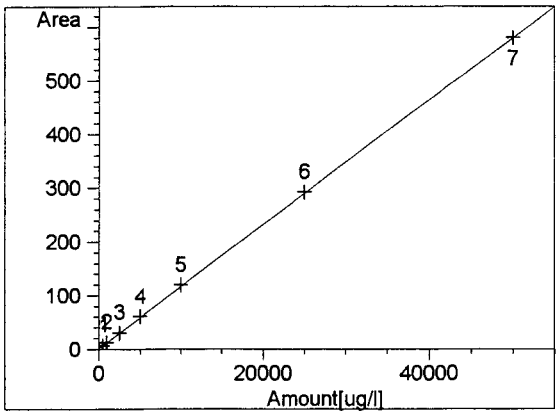
Peak Sum Table

No Entries in table

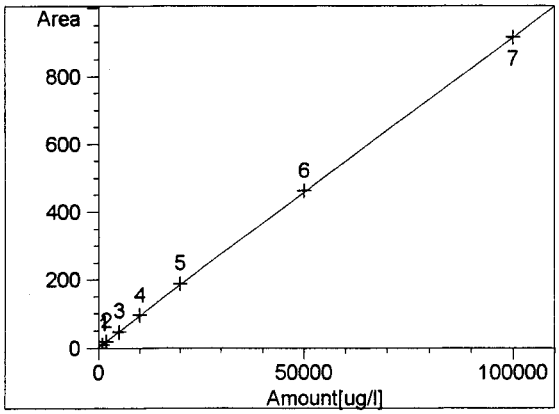
Calibration Curves



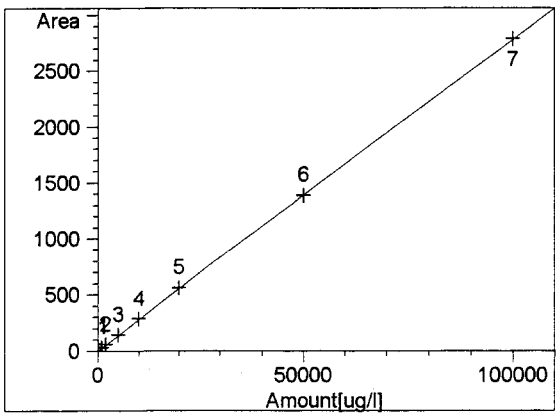
Naphthalene at exp. RT: 4.798
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.66440
Formula: y = mx + b
m: 1.29671e-2
b: 3.20474e-1
x: Amount[ug/l]
y: Area



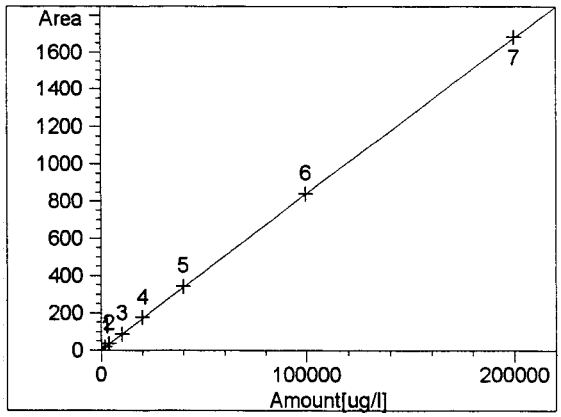
Naphthalene at exp. RT: 4.839
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.21267
Formula: y = mx + b
m: 1.15969e-2
b: 1.09732
x: Amount[ug/l]
y: Area



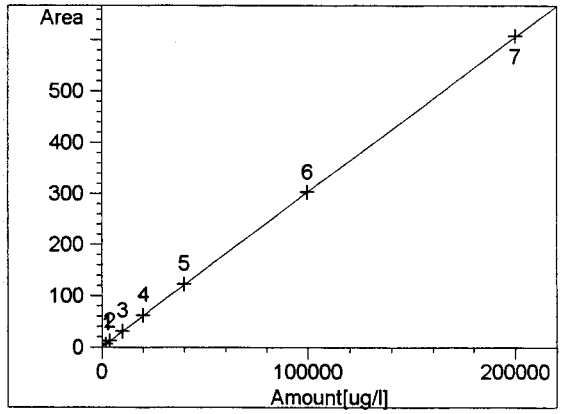
Acenaphthylene at exp. RT: 6.052
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 2.57482
Formula: y = mx + b
m: 9.13868e-3
b: 1.95971
x: Amount[ug/l]
y: Area



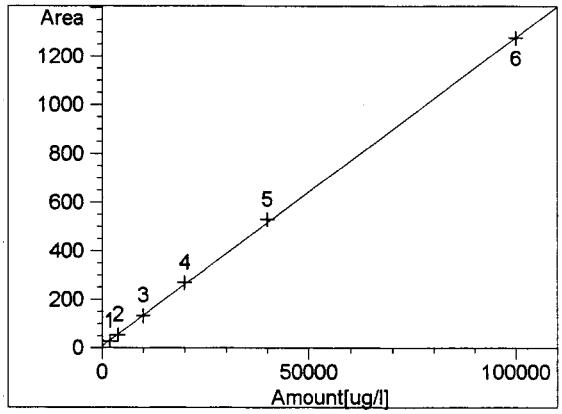
Acenaphthylene at exp. RT: 6.053
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 3.95166
Formula: y = mx + b
m: 2.78746e-2
b: -2.10217e-1
x: Amount[ug/l]
y: Area



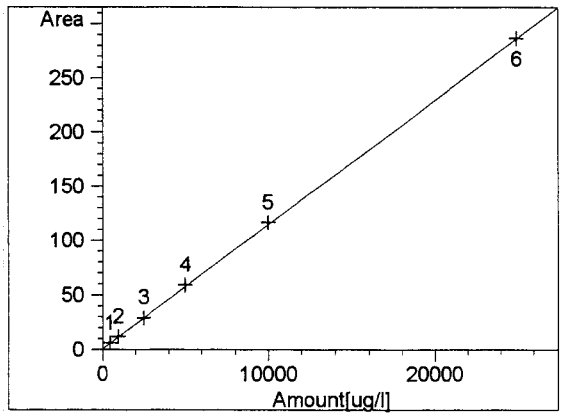
1-Methylnaphthalene (UV) at exp. RT: 6.831
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 2.56891
Formula: y = mx + b
m: 8.39433e-3
b: 2.20489
x: Amount[ug/l]
y: Area



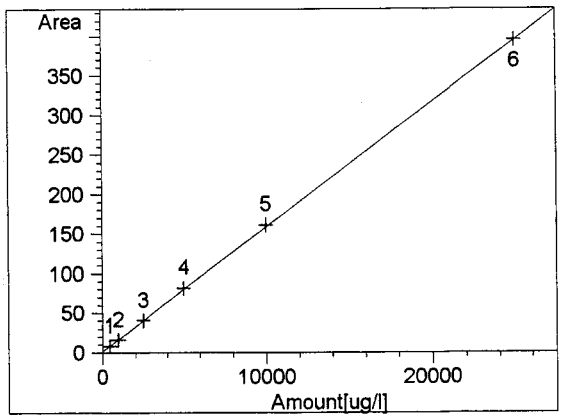
1-Methylnaphthalene (UV) at exp. RT: 6.832
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.87319
Formula: y = mx + b
m: 3.03699e-3
b: 3.80514e-1
x: Amount[ug/l]
y: Area



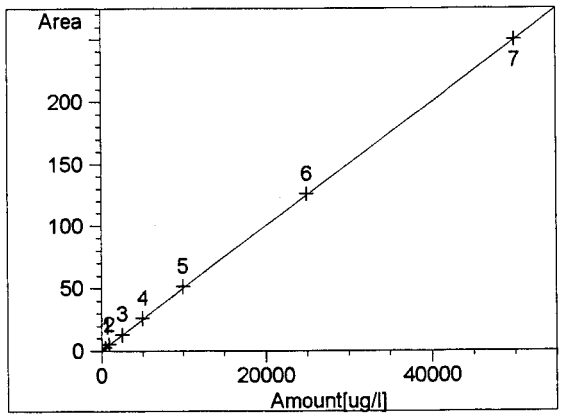
1-Methylnaphthalene (F) at exp. RT: 6.872
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99990
Residual Std. Dev.: 7.42050
Formula: y = mx + b
m: 1.27534e-2
b: 5.83375
x: Amount[ug/l]
y: Area



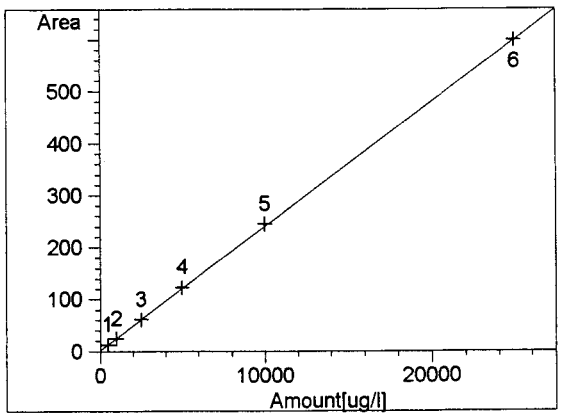
2-Methylnaphthalene at exp. RT: 7.280
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 0.93927
Formula: y = mx + b
m: 1.14550e-2
b: 4.51222e-1
x: Amount[ug/l]
y: Area



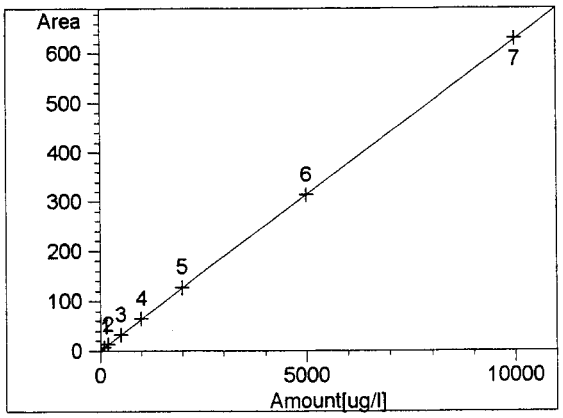
2-Methylnaphthalene at exp. RT: 7.335
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 1.42306
Formula: y = mx + b
m: 1.58022e-2
b: 9.88789e-1
x: Amount[ug/l]
y: Area



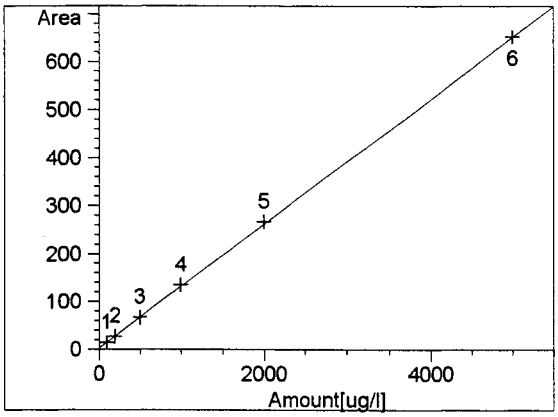
Acenaphthene at exp. RT: 7.672
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.58330
Formula: y = mx + b
m: 4.99125e-3
b: 4.27298e-1
x: Amount[ug/l]
y: Area



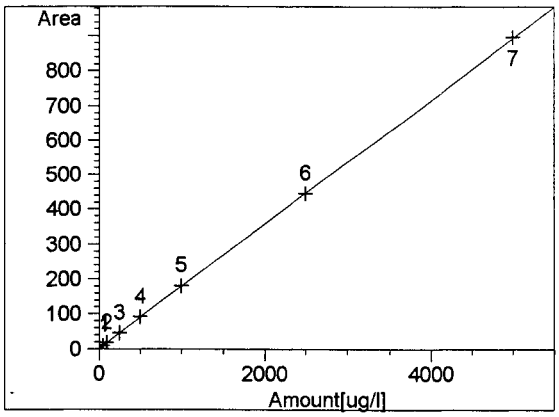
Acenaphthene at exp. RT: 7.712
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 2.28893
Formula: y = mx + b
m: 2.39146e-2
b: 1.55557
x: Amount[ug/l]
y: Area



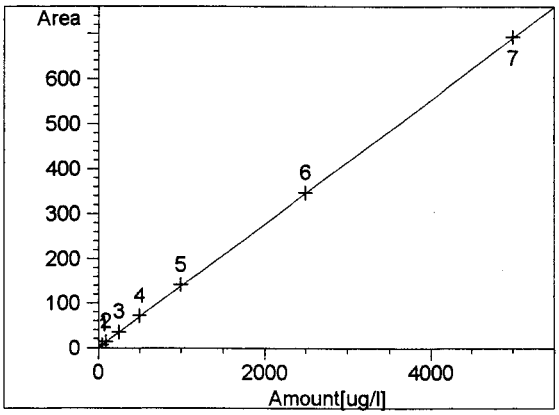
Fluorene at exp. RT: 8.199
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.73220
Formula: y = mx + b
m: 6.28687e-2
b: 1.80023e-1
x: Amount[ug/l]
y: Area



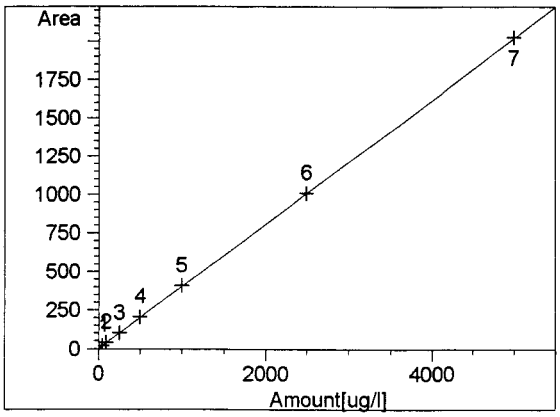
Fluorene at exp. RT: 8.239
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99995
Residual Std. Dev.: 2.84162
Formula: y = mx + b
m: 1.30167e-1
b: 2.33256
x: Amount[ug/l]
y: Area



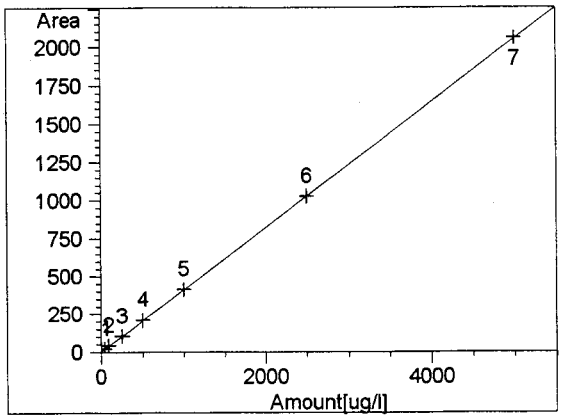
Phenanthrene at exp. RT: 9.318
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 1.35222
Formula: y = mx + b
m: 1.79253e-1
b: 2.33836e-1
x: Amount[ug/l]
y: Area



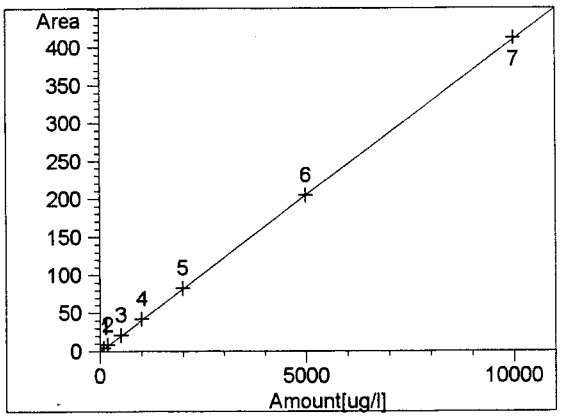
Phenanthrene at exp. RT: 9.358
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.35775
Formula: y = mx + b
m: 1.38429e-1
b: 1.21609
x: Amount[ug/l]
y: Area



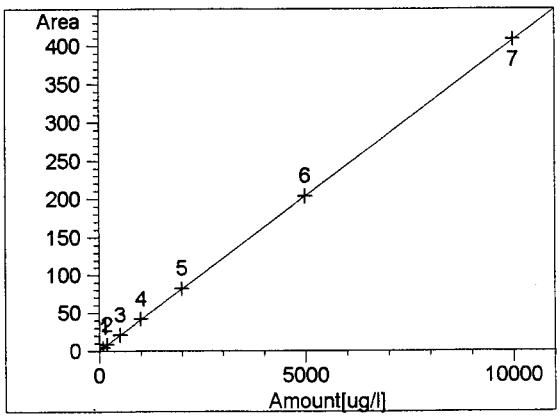
Anthracene at exp. RT: 10.346
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 2.21901
Formula: y = mx + b
m: 4.04598e-1
b: 1.39720
x: Amount[ug/l]
y: Area



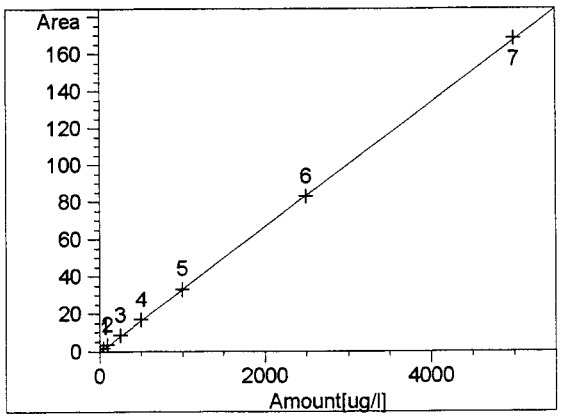
Anthracene at exp. RT: 10.386
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 2.36890
Formula: y = mx + b
m: 4.11465e-1
b: 1.03508
x: Amount[ug/l]
y: Area



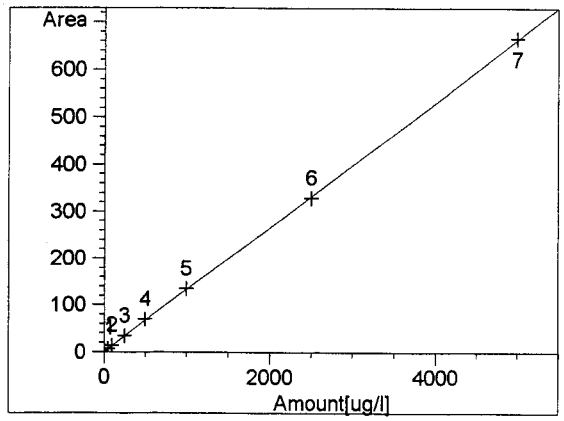
Fluoranthene at exp. RT: 11.504
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.84613
Formula: y = mx + b
m: 4.11083e-2
b: -1.95725e-1
x: Amount[ug/l]
y: Area



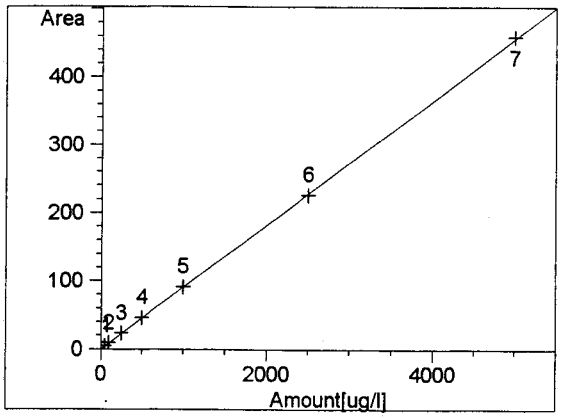
Fluoranthene at exp. RT: 11.543
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.58645
Formula: y = mx + b
m: 4.08100e-2
b: 1.09457e-1
x: Amount[ug/l]
y: Area



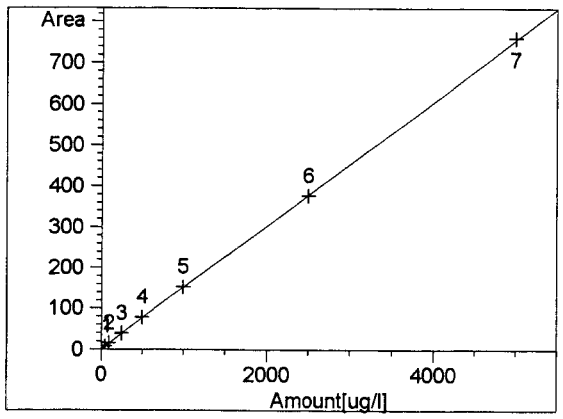
Pyrene at exp. RT: 12.274
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 0.49621
Formula: y = mx + b
m: 3.35757e-2
b: -2.87441e-1
x: Amount[ug/l]
y: Area



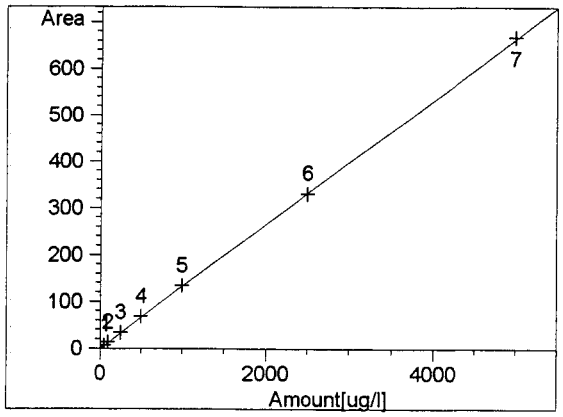
Pyrene at exp. RT: 12.313
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 2.23433
Formula: y = mx + b
m: 1.32777e-1
b: 2.88948e-1
x: Amount[ug/l]
y: Area



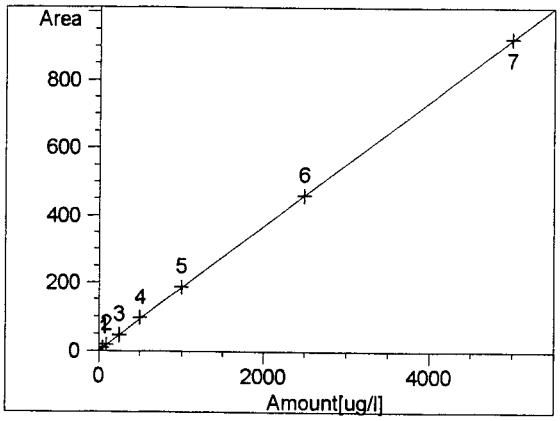
Benzo(a)anthracene at exp. RT: 15.125
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 1.46481
Formula: y = mx + b
m: 9.16421e-2
b: -5.64799e-1
x: Amount[ug/l]
y: Area



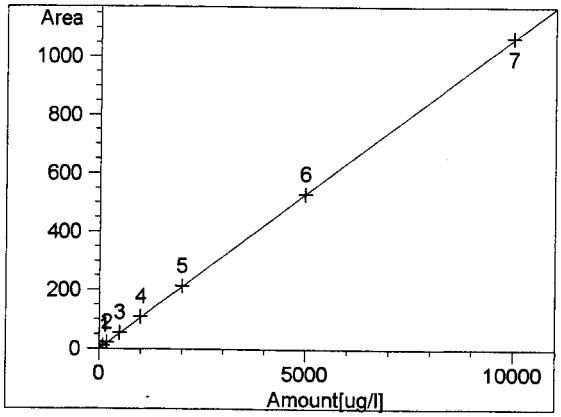
Benzo(a)anthracene at exp. RT: 15.164
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.52788
Formula: y = mx + b
m: 1.51611e-1
b: 2.05410e-1
x: Amount[ug/l]
y: Area



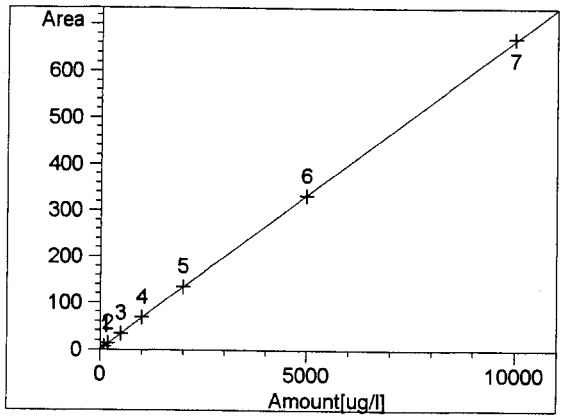
Chrysene at exp. RT: 15.624
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 1.52322
Formula: y = mx + b
m: 1.33357e-1
b: -3.52762e-1
x: Amount[ug/l]
y: Area



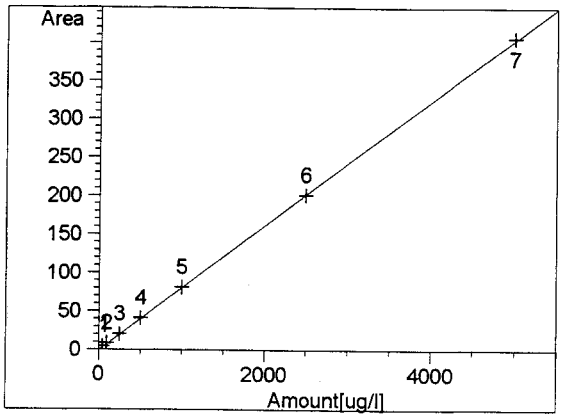
Chrysene at exp. RT: 15.664
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.42864
Formula: y = mx + b
m: 1.84313e-1
b: 9.78301e-1
x: Amount[ug/l]
y: Area



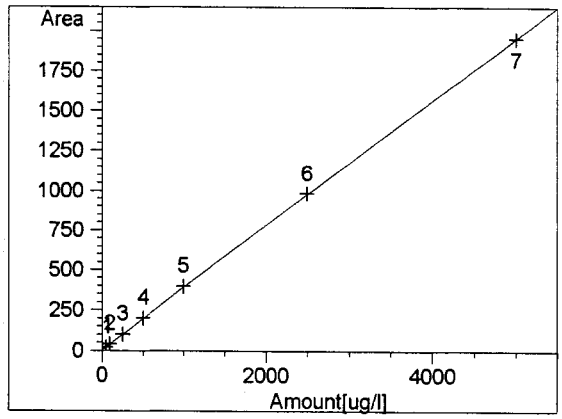
Benzo(b)fluoranthene at exp. RT: 17.842
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 1.79272
Formula: y = mx + b
m: 1.06686e-1
b: -5.73080e-1
x: Amount[ug/l]
y: Area



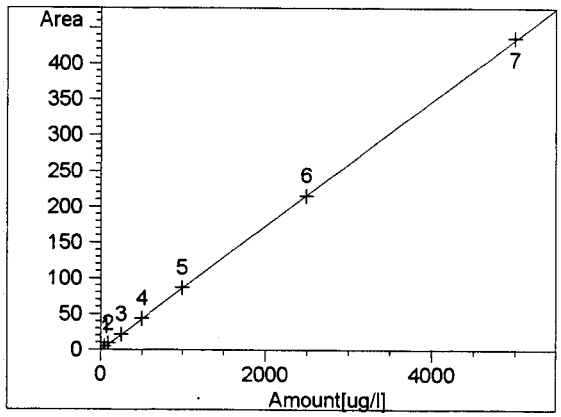
Benzo(b)fluoranthene at exp. RT: 17.883
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.32175
Formula: y = mx + b
m: 6.68690e-2
b: 2.49898e-2
x: Amount[ug/l]
y: Area



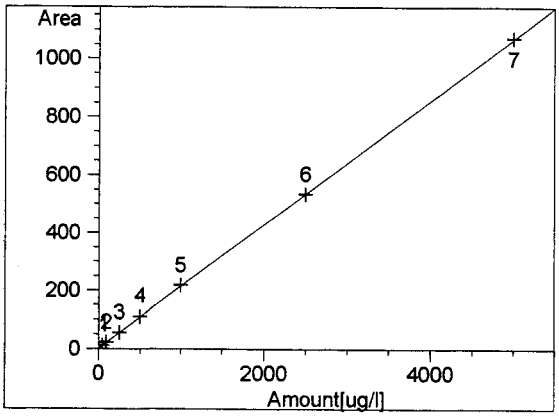
Benzo(k)fluoranthene at exp. RT: 18.796
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.98396
Formula: y = mx + b
m: 8.13261e-2
b: -7.36369e-1
x: Amount[ug/l]
y: Area



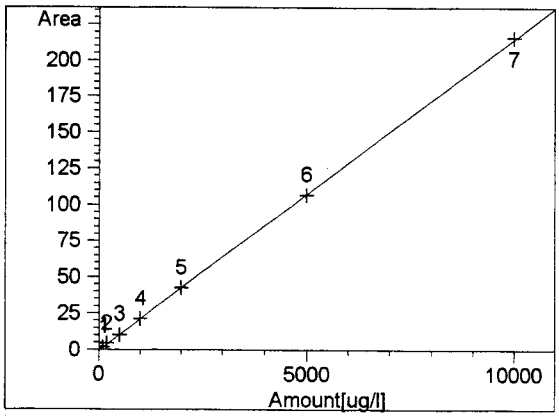
Benzo(k)fluoranthene at exp. RT: 18.837
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 3.29157
Formula: y = mx + b
m: 3.90262e-1
b: 2.80891
x: Amount[ug/l]
y: Area



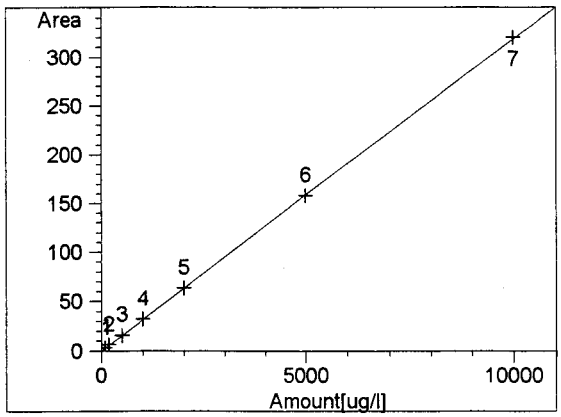
Benzo(a)pyrene at exp. RT: 19.734
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.88457
Formula: y = mx + b
m: 8.70219e-2
b: -7.06704e-1
x: Amount[ug/l]
y: Area



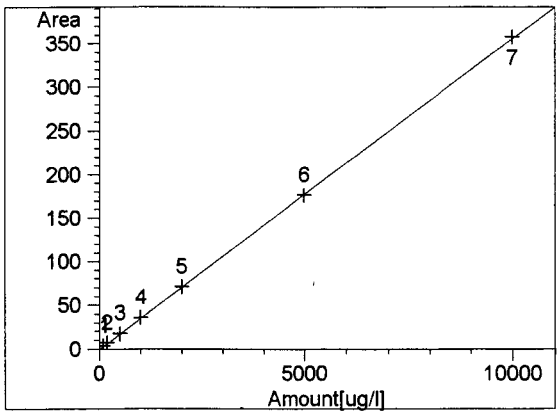
Benzo(a)pyrene at exp. RT: 19.774
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.54630
Formula: y = mx + b
m: 2.14053e-1
b: 8.29784e-1
x: Amount[ug/l]
y: Area



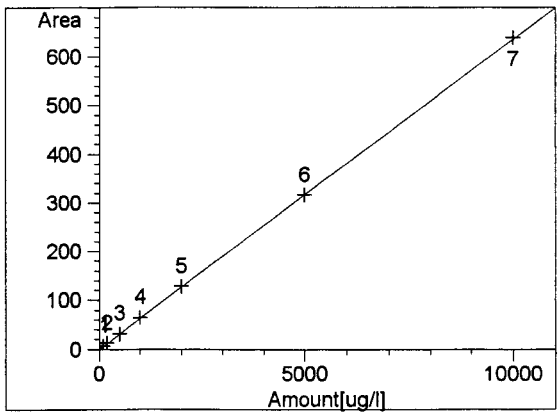
Dibenz(a,h)anthracene at exp. RT: 21.335
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.47152
Formula: y = mx + b
m: 2.15889e-2
b: -6.24820e-1
x: Amount[ug/l]
y: Area



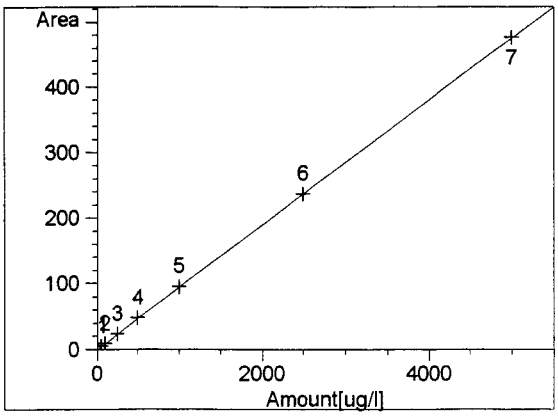
Dibenz(a,h)anthracene at exp. RT: 21.376
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.69795
Formula: y = mx + b
m: 3.19738e-2
b: -4.70523e-1
x: Amount[ug/l]
y: Area



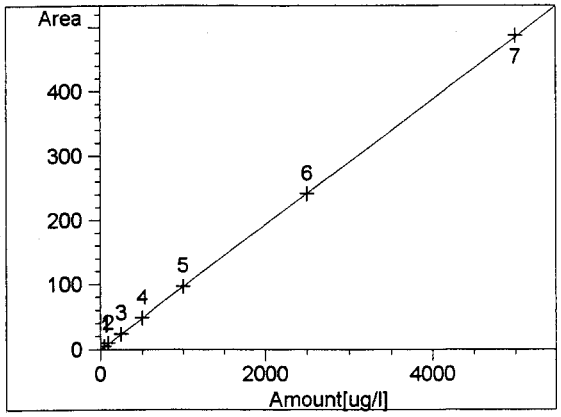
Benzo(g,h,i)perylene at exp. RT: 22.099
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.90912
Formula: y = mx + b
m: 3.57236e-2
b: -6.18946e-1
x: Amount[ug/l]
y: Area



Benzo(g,h,i)perylene at exp. RT: 22.140
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.13249
Formula: y = mx + b
m: 6.38382e-2
b: -5.42335e-1
x: Amount[ug/l]
y: Area



Indeno(1,2,3-cd)pyrene at exp. RT: 22.620
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.59301
Formula: y = mx + b
m: 9.53650e-2
b: -8.30323e-1
x: Amount[ug/l]
y: Area



Indeno(1,2,3-cd)pyrene at exp. RT: 22.661
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.87865
Formula: y = mx + b
m: 9.72272e-2
b: -5.98930e-1
x: Amount[ug/l]
y: Area

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CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185622 HPLC Water
EPA 8310

Inst : HPLC04
Calnum : 295454249001 Cal Date: 11-NOV-2005

ICV 295454249015 (31500015 11-NOV-2005) stds: S1859

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1	5000	5429	ug/L	9	15	
Acenaphthylene	1	10000	11450	ug/L	14	15	
Acenaphthene	1	5000	5731	ug/L	15	15	
Fluorene	1	1000	1083	ug/L	8	15	
Phenanthrene	1	500.0	527.1	ug/L	5	15	
Anthracene	1	500.0	541.6	ug/L	8	15	
Fluoranthene	1	1000	1095	ug/L	9	15	
Pyrene	1	500.0	544.7	ug/L	9	15	
Benzo(a)anthracene	1	500.0	539.7	ug/L	8	15	
Chrysene	1	500.0	541.3	ug/L	8	15	
Benzo(b)fluoranthene	1	1000	1079	ug/L	8	15	
Benzo(k)fluoranthene	1	500.0	541.4	ug/L	8	15	
Benzo(a)pyrene	1	500.0	528.7	ug/L	6	15	
Dibenz(a,h)anthracene	1	1000	1083	ug/L	8	15	
Benzo(g,h,i)perylene	1	1000	1068	ug/L	7	15	
Indeno(1,2,3-cd)pyrene	1	500.0	543.1	ug/L	9	15	
Acenaphthylene	2	10000	10910	ug/L	9	15	
Naphthalene	3	5000	5415	ug/L	8	15	
Acenaphthene	3	5000	5652	ug/L	13	15	
Fluorene	3	1000	1080	ug/L	8	15	
Phenanthrene	3	500.0	519.8	ug/L	4	15	
Anthracene	3	500.0	542.4	ug/L	8	15	
Fluoranthene	3	1000	1101	ug/L	10	15	
Pyrene	3	500.0	543.9	ug/L	9	15	
Benzo(a)anthracene	3	500.0	536.6	ug/L	7	15	
Chrysene	3	500.0	537.3	ug/L	7	15	
Benzo(b)fluoranthene	3	1000	1079	ug/L	8	15	
Benzo(k)fluoranthene	3	500.0	544.4	ug/L	9	15	
Benzo(a)pyrene	3	500.0	526.8	ug/L	5	15	
Dibenz(a,h)anthracene	3	1000	1078	ug/L	8	15	
Benzo(g,h,i)perylene	3	1000	1049	ug/L	5	15	
Indeno(1,2,3-cd)pyrene	3	500.0	542.2	ug/L	8	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185622 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: L IDF : 1.0
Seqnum : 296118730002 File : 08200002 Time : 23-MAR-2006 11:22
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2256

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0145	2500	2764	ug/L	11	15	
Acenaphthylene	1	0.0093	0.0098	5000	5133	ug/L	3	15	
Acenaphthene	1	0.0050	0.0058	2500	2807	ug/L	12	15	
Fluorene	1	0.0629	0.0665	500.0	526.0	ug/L	5	15	
Phenanthrene	1	0.1797	0.1893	250.0	262.7	ug/L	5	15	
Anthracene	1	0.4065	0.4565	250.0	278.6	ug/L	11	15	
Fluoranthene	1	0.0408	0.0426	500.0	523.4	ug/L	5	15	
Pyrene	1	0.0329	0.0364	250.0	279.9	ug/L	12	15	
Benzo(a)anthracene	1	0.0901	0.1026	250.0	286.0	ug/L	14	15	
Chrysene	1	0.1322	0.1430	250.0	270.8	ug/L	8	15	
Benzo(b)fluoranthene	1	0.1049	0.1126	500.0	533.0	ug/L	7	15	
Benzo(k)fluoranthene	1	0.0796	0.0884	250.0	280.7	ug/L	12	15	
Benzo(a)pyrene	1	0.0842	0.0946	250.0	279.8	ug/L	12	15	
Dibenz(a,h)anthracene	1	0.0205	0.0223	500.0	545.5	ug/L	9	15	
Benzo(g,h,i)perylene	1	0.0349	0.0377	500.0	545.5	ug/L	9	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.1059	250.0	286.3	ug/L	15	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0084	50000	49700	ug/L	-1	15	
Acenaphthylene	2	0.0277	0.0296	5000	5314	ug/L	6	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	49130	ug/L	-2	15	
Naphthalene	3	0.0118	0.0121	2500	2517	ug/L	1	15	
Acenaphthene	3	0.0242	0.0253	2500	2575	ug/L	3	15	
Fluorene	3	0.1330	0.1361	500.0	504.8	ug/L	1	15	
Phenanthrene	3	0.1408	0.1461	250.0	255.0	ug/L	2	15	
Anthracene	3	0.4129	0.4554	250.0	274.2	ug/L	10	15	
Fluoranthene	3	0.0409	0.0413	500.0	503.7	ug/L	1	15	
Pyrene	3	0.1339	0.1482	250.0	276.8	ug/L	11	15	
Benzo(a)anthracene	3	0.1518	0.1676	250.0	274.9	ug/L	10	15	
Chrysene	3	0.1854	0.1957	250.0	260.2	ug/L	4	15	
Benzo(b)fluoranthene	3	0.0668	0.0688	500.0	514.0	ug/L	3	15	
Benzo(k)fluoranthene	3	0.3937	0.4186	250.0	260.9	ug/L	4	15	
Benzo(a)pyrene	3	0.2148	0.2336	250.0	269.0	ug/L	8	15	
Dibenz(a,h)anthracene	3	0.0311	0.0337	500.0	541.1	ug/L	8	15	
Benzo(g,h,i)perylene	3	0.0629	0.0661	500.0	526.5	ug/L	5	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.1042	250.0	274.1	ug/L	10	15	
1-Methylnaphthalene (F)	3	0.0131	0.0123	50000	47960	ug/L	-4	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185622 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: M IDF : 1.0
Seqnum : 296118730017 File : 08200017 Time : 23-MAR-2006 19:16
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2255

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0138	5000	5288	ug/L	6	15	
Acenaphthylene	1	0.0093	0.0097	10000	10380	ug/L	4	15	
Acenaphthene	1	0.0050	0.0055	5000	5396	ug/L	8	15	
Fluorene	1	0.0629	0.0652	1000	1035	ug/L	3	15	
Phenanthrene	1	0.1797	0.1864	500.0	518.6	ug/L	4	15	
Anthracene	1	0.4065	0.4481	500.0	550.3	ug/L	10	15	
Fluoranthene	1	0.0408	0.0418	1000	1023	ug/L	2	15	
Pyrene	1	0.0329	0.0355	500.0	537.4	ug/L	7	15	
Benzo(a)anthracene	1	0.0901	0.1014	500.0	559.2	ug/L	12	15	
Chrysene	1	0.1322	0.1418	500.0	534.4	ug/L	7	15	
Benzo(b)fluoranthene	1	0.1049	0.1118	1000	1053	ug/L	5	15	
Benzo(k)fluoranthene	1	0.0796	0.0863	500.0	539.7	ug/L	8	15	
Benzo(a)pyrene	1	0.0842	0.0938	500.0	546.8	ug/L	9	15	
Dibenz(a,h)anthracene	1	0.0205	0.0222	1000	1055	ug/L	6	15	
Benzo(g,h,i)perylene	1	0.0349	0.0374	1000	1064	ug/L	6	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.1063	500.0	565.9	ug/L	13	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0082	50000	48860	ug/L	-2	15	
Acenaphthylene	2	0.0277	0.0294	10000	10550	ug/L	5	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	48520	ug/L	-3	15	
Naphthalene	3	0.0118	0.0117	5000	4956	ug/L	-1	15	
Acenaphthene	3	0.0242	0.0245	5000	5049	ug/L	1	15	
Fluorene	3	0.1330	0.1333	1000	1006	ug/L	1	15	
Phenanthrene	3	0.1408	0.1401	500.0	497.4	ug/L	-1	15	
Anthracene	3	0.4129	0.4466	500.0	540.2	ug/L	8	15	
Fluoranthene	3	0.0409	0.0397	1000	971.2	ug/L	-3	15	
Pyrene	3	0.1339	0.1382	500.0	518.1	ug/L	4	15	
Benzo(a)anthracene	3	0.1518	0.1623	500.0	533.9	ug/L	7	15	
Chrysene	3	0.1854	0.1899	500.0	509.7	ug/L	2	15	
Benzo(b)fluoranthene	3	0.0668	0.0676	1000	1010	ug/L	1	15	
Benzo(k)fluoranthene	3	0.3937	0.4117	500.0	520.2	ug/L	4	15	
Benzo(a)pyrene	3	0.2148	0.2284	500.0	529.7	ug/L	6	15	
Dibenz(a,h)anthracene	3	0.0311	0.0330	1000	1047	ug/L	5	15	
Benzo(g,h,i)perylene	3	0.0629	0.0656	1000	1035	ug/L	4	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.1040	500.0	540.9	ug/L	8	15	
1-Methylnaphthalene (F)	3	0.0131	0.0118	50000	45990	ug/L	-8	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185622 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: H IDF : 1.0
Seqnum : 296118730034 File : 08200034 Time : 24-MAR-2006 04:13
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2954

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0131	10000	10060	ug/L	1	15	
Acenaphthylene	1	0.0093	0.0094	20000	20370	ug/L	2	15	
Acenaphthene	1	0.0050	0.0053	10000	10480	ug/L	5	15	
Fluorene	1	0.0629	0.0640	2000	2033	ug/L	2	15	
Phenanthrene	1	0.1797	0.1830	1000	1019	ug/L	2	15	
Anthracene	1	0.4065	0.4363	1000	1075	ug/L	7	15	
Fluoranthene	1	0.0408	0.0415	2000	2023	ug/L	1	15	
Pyrene	1	0.0329	0.0344	1000	1034	ug/L	3	15	
Benzo(a)anthracene	1	0.0901	0.0969	1000	1063	ug/L	6	15	
Chrysene	1	0.1322	0.1373	1000	1032	ug/L	3	15	
Benzo(b)fluoranthene	1	0.1049	0.1086	2000	2041	ug/L	2	15	
Benzo(k)fluoranthene	1	0.0796	0.0848	1000	1051	ug/L	5	15	
Benzo(a)pyrene	1	0.0842	0.0899	1000	1042	ug/L	4	15	
Dibenz(a,h)anthracene	1	0.0205	0.0225	2000	2110	ug/L	6	15	
Benzo(g,h,i)perylene	1	0.0349	0.0374	2000	2113	ug/L	6	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.1016	1000	1074	ug/L	7	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0085	50000	50350	ug/L	1	15	
Acenaphthylene	2	0.0277	0.0285	20000	20460	ug/L	2	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	49840	ug/L	0	15	
Naphthalene	3	0.0118	0.0110	10000	9394	ug/L	-6	15	
Acenaphthene	3	0.0242	0.0234	10000	9713	ug/L	-3	15	
Fluorene	3	0.1330	0.1293	2000	1969	ug/L	-2	15	
Phenanthrene	3	0.1408	0.1350	1000	966.7	ug/L	-3	15	
Anthracene	3	0.4129	0.4359	1000	1057	ug/L	6	15	
Fluoranthene	3	0.0409	0.0395	2000	1935	ug/L	-3	15	
Pyrene	3	0.1339	0.1309	1000	983.6	ug/L	-2	15	
Benzo(a)anthracene	3	0.1518	0.1534	1000	1010	ug/L	1	15	
Chrysene	3	0.1854	0.1823	1000	983.9	ug/L	-2	15	
Benzo(b)fluoranthene	3	0.0668	0.0652	2000	1951	ug/L	-2	15	
Benzo(k)fluoranthene	3	0.3937	0.3992	1000	1016	ug/L	2	15	
Benzo(a)pyrene	3	0.2148	0.2153	1000	1002	ug/L	0	15	
Dibenz(a,h)anthracene	3	0.0311	0.0317	2000	2000	ug/L	0	15	
Benzo(g,h,i)perylene	3	0.0629	0.0630	2000	1982	ug/L	-1	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.0994	1000	1029	ug/L	3	15	
1-Methylnaphthalene (F)	3	0.0131	0.0121	50000	46930	ug/L	-6	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185622 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: M IDF : 1.0
Seqnum : 296118730049 File : 08200049 Time : 24-MAR-2006 12:07
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2255

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0138	5000	5302	ug/L	6	15	
Acenaphthylene	1	0.0093	0.0098	10000	10490	ug/L	5	15	
Acenaphthene	1	0.0050	0.0055	5000	5436	ug/L	9	15	
Fluorene	1	0.0629	0.0662	1000	1050	ug/L	5	15	
Phenanthrene	1	0.1797	0.1889	500.0	525.7	ug/L	5	15	
Anthracene	1	0.4065	0.4545	500.0	558.2	ug/L	12	15	
Fluoranthene	1	0.0408	0.0423	1000	1035	ug/L	3	15	
Pyrene	1	0.0329	0.0364	500.0	551.1	ug/L	10	15	
Benzo(a)anthracene	1	0.0901	0.1029	500.0	567.6	ug/L	14	15	
Chrysene	1	0.1322	0.1433	500.0	540.0	ug/L	8	15	
Benzo(b)fluoranthene	1	0.1049	0.1127	1000	1062	ug/L	6	15	
Benzo(k)fluoranthene	1	0.0796	0.0875	500.0	547.2	ug/L	9	15	
Benzo(a)pyrene	1	0.0842	0.0945	500.0	551.1	ug/L	10	15	
Dibenz(a,h)anthracene	1	0.0205	0.0229	1000	1090	ug/L	9	15	
Benzo(g,h,i)perylene	1	0.0349	0.0385	1000	1094	ug/L	9	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.1076	500.0	573.0	ug/L	15	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0083	50000	49260	ug/L	-1	15	
Acenaphthylene	2	0.0277	0.0296	10000	10640	ug/L	6	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	48740	ug/L	-3	15	
Naphthalene	3	0.0118	0.0119	5000	5030	ug/L	1	15	
Acenaphthene	3	0.0242	0.0250	5000	5169	ug/L	3	15	
Fluorene	3	0.1330	0.1351	1000	1020	ug/L	2	15	
Phenanthrene	3	0.1408	0.1453	500.0	516.1	ug/L	3	15	
Anthracene	3	0.4129	0.4546	500.0	549.9	ug/L	10	15	
Fluoranthene	3	0.0409	0.0411	1000	1005	ug/L	0	15	
Pyrene	3	0.1339	0.1453	500.0	545.1	ug/L	9	15	
Benzo(a)anthracene	3	0.1518	0.1670	500.0	549.3	ug/L	10	15	
Chrysene	3	0.1854	0.1944	500.0	522.0	ug/L	4	15	
Benzo(b)fluoranthene	3	0.0668	0.0688	1000	1028	ug/L	3	15	
Benzo(k)fluoranthene	3	0.3937	0.4182	500.0	528.6	ug/L	6	15	
Benzo(a)pyrene	3	0.2148	0.2329	500.0	540.1	ug/L	8	15	
Dibenz(a,h)anthracene	3	0.0311	0.0338	1000	1071	ug/L	7	15	
Benzo(g,h,i)perylene	3	0.0629	0.0678	1000	1071	ug/L	7	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.1055	500.0	548.7	ug/L	10	15	
1-Methylnaphthalene (F)	3	0.0131	0.0121	50000	47130	ug/L	-6	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185622 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: L IDF : 1.0
Seqnum : 296120490002 File : 08300002 Time : 24-MAR-2006 16:41
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2256

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0147	2500	2807	ug/L	12	15	
Acenaphthylene	1	0.0093	0.0098	5000	5122	ug/L	2	15	
Acenaphthene	1	0.0050	0.0058	2500	2821	ug/L	13	15	
Fluorene	1	0.0629	0.0664	500.0	525.6	ug/L	5	15	
Phenanthrene	1	0.1797	0.1896	250.0	263.1	ug/L	5	15	
Anthracene	1	0.4065	0.4556	250.0	278.0	ug/L	11	15	
Fluoranthene	1	0.0408	0.0429	500.0	526.4	ug/L	5	15	
Pyrene	1	0.0329	0.0368	250.0	282.5	ug/L	13	15	
Benzo(a)anthracene	1	0.0901	0.1026	250.0	286.0	ug/L	14	15	
Chrysene	1	0.1322	0.1431	250.0	271.0	ug/L	8	15	
Benzo(b)fluoranthene	1	0.1049	0.1117	500.0	529.1	ug/L	6	15	
Benzo(k)fluoranthene	1	0.0796	0.0884	250.0	280.8	ug/L	12	15	
Benzo(a)pyrene	1	0.0842	0.0930	250.0	275.2	ug/L	10	15	
Dibenz(a,h)anthracene	1	0.0205	0.0226	500.0	551.7	ug/L	10	15	
Benzo(g,h,i)perylene	1	0.0349	0.0378	500.0	546.2	ug/L	9	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.1028	250.0	278.1	ug/L	11	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0084	50000	49680	ug/L	-1	15	
Acenaphthylene	2	0.0277	0.0295	5000	5306	ug/L	6	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	49320	ug/L	-1	15	
Naphthalene	3	0.0118	0.0118	2500	2456	ug/L	-2	15	
Acenaphthene	3	0.0242	0.0249	2500	2540	ug/L	2	15	
Fluorene	3	0.1330	0.1348	500.0	499.9	ug/L	0	15	
Phenanthrene	3	0.1408	0.1426	250.0	248.8	ug/L	0	15	
Anthracene	3	0.4129	0.4551	250.0	274.0	ug/L	10	15	
Fluoranthene	3	0.0409	0.0408	500.0	496.8	ug/L	-1	15	
Pyrene	3	0.1339	0.1426	250.0	266.3	ug/L	7	15	
Benzo(a)anthracene	3	0.1518	0.1658	250.0	272.0	ug/L	9	15	
Chrysene	3	0.1854	0.1925	250.0	255.8	ug/L	2	15	
Benzo(b)fluoranthene	3	0.0668	0.0679	500.0	507.0	ug/L	1	15	
Benzo(k)fluoranthene	3	0.3937	0.4131	250.0	257.5	ug/L	3	15	
Benzo(a)pyrene	3	0.2148	0.2303	250.0	265.1	ug/L	6	15	
Dibenz(a,h)anthracene	3	0.0311	0.0327	500.0	525.9	ug/L	5	15	
Benzo(g,h,i)perylene	3	0.0629	0.0653	500.0	519.6	ug/L	4	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.1033	250.0	271.7	ug/L	9	15	
1-Methylnaphthalene (F)	3	0.0131	0.0121	50000	46870	ug/L	-6	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185622 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: M IDF : 1.0
Seqnum : 296120490016 File : 08300016 Time : 25-MAR-2006 00:04
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2255

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0138	5000	5305	ug/L	6	15	
Acenaphthylene	1	0.0093	0.0098	10000	10460	ug/L	5	15	
Acenaphthene	1	0.0050	0.0055	5000	5449	ug/L	9	15	
Fluorene	1	0.0629	0.0658	1000	1043	ug/L	4	15	
Phenanthrene	1	0.1797	0.1876	500.0	521.9	ug/L	4	15	
Anthracene	1	0.4065	0.4502	500.0	552.9	ug/L	11	15	
Fluoranthene	1	0.0408	0.0420	1000	1026	ug/L	3	15	
Pyrene	1	0.0329	0.0355	500.0	537.0	ug/L	7	15	
Benzo(a)anthracene	1	0.0901	0.1026	500.0	566.1	ug/L	13	15	
Chrysene	1	0.1322	0.1419	500.0	534.7	ug/L	7	15	
Benzo(b)fluoranthene	1	0.1049	0.1116	1000	1052	ug/L	5	15	
Benzo(k)fluoranthene	1	0.0796	0.0857	500.0	536.2	ug/L	7	15	
Benzo(a)pyrene	1	0.0842	0.0930	500.0	542.4	ug/L	8	15	
Dibenz(a,h)anthracene	1	0.0205	0.0227	1000	1081	ug/L	8	15	
Benzo(g,h,i)perylene	1	0.0349	0.0380	1000	1081	ug/L	8	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.1063	500.0	566.1	ug/L	13	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0083	50000	49150	ug/L	-2	15	
Acenaphthylene	2	0.0277	0.0295	10000	10580	ug/L	6	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	48770	ug/L	-2	15	
Naphthalene	3	0.0118	0.0117	5000	4934	ug/L	-1	15	
Acenaphthene	3	0.0242	0.0245	5000	5063	ug/L	1	15	
Fluorene	3	0.1330	0.1334	1000	1007	ug/L	1	15	
Phenanthrene	3	0.1408	0.1407	500.0	499.6	ug/L	0	15	
Anthracene	3	0.4129	0.4510	500.0	545.5	ug/L	9	15	
Fluoranthene	3	0.0409	0.0404	1000	987.9	ug/L	-1	15	
Pyrene	3	0.1339	0.1376	500.0	515.9	ug/L	3	15	
Benzo(a)anthracene	3	0.1518	0.1630	500.0	536.1	ug/L	7	15	
Chrysene	3	0.1854	0.1896	500.0	509.1	ug/L	2	15	
Benzo(b)fluoranthene	3	0.0668	0.0676	1000	1010	ug/L	1	15	
Benzo(k)fluoranthene	3	0.3937	0.4118	500.0	520.4	ug/L	4	15	
Benzo(a)pyrene	3	0.2148	0.2277	500.0	528.1	ug/L	6	15	
Dibenz(a,h)anthracene	3	0.0311	0.0329	1000	1043	ug/L	4	15	
Benzo(g,h,i)perylene	3	0.0629	0.0650	1000	1027	ug/L	3	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.1047	500.0	544.4	ug/L	9	15	
1-Methylnaphthalene (F)	3	0.0131	0.0119	50000	46090	ug/L	-8	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185622 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: H IDF : 1.0
Seqnum : 296120490030 File : 08300030 Time : 25-MAR-2006 07:26
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2954

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0129	10000	9900	ug/L	-1	15	
Acenaphthylene	1	0.0093	0.0091	20000	19750	ug/L	-1	15	
Acenaphthene	1	0.0050	0.0051	10000	10140	ug/L	1	15	
Fluorene	1	0.0629	0.0620	2000	1970	ug/L	-2	15	
Phenanthrene	1	0.1797	0.1768	1000	985.1	ug/L	-1	15	
Anthracene	1	0.4065	0.4228	1000	1042	ug/L	4	15	
Fluoranthene	1	0.0408	0.0399	2000	1948	ug/L	-3	15	
Pyrene	1	0.0329	0.0333	1000	1001	ug/L	0	15	
Benzo(a)anthracene	1	0.0901	0.0937	1000	1028	ug/L	3	15	
Chrysene	1	0.1322	0.1331	1000	1001	ug/L	0	15	
Benzo(b)fluoranthene	1	0.1049	0.1051	2000	1976	ug/L	-1	15	
Benzo(k)fluoranthene	1	0.0796	0.0817	1000	1014	ug/L	1	15	
Benzo(a)pyrene	1	0.0842	0.0869	1000	1007	ug/L	1	15	
Dibenz(a,h)anthracene	1	0.0205	0.0215	2000	2018	ug/L	1	15	
Benzo(g,h,i)perylene	1	0.0349	0.0363	2000	2052	ug/L	3	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.0980	1000	1036	ug/L	4	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0083	50000	49180	ug/L	-2	15	
Acenaphthylene	2	0.0277	0.0277	20000	19850	ug/L	-1	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	48850	ug/L	-2	15	
Naphthalene	3	0.0118	0.0108	10000	9188	ug/L	-8	15	
Acenaphthene	3	0.0242	0.0227	10000	9428	ug/L	-6	15	
Fluorene	3	0.1330	0.1253	2000	1907	ug/L	-5	15	
Phenanthrene	3	0.1408	0.1322	1000	946.2	ug/L	-5	15	
Anthracene	3	0.4129	0.4228	1000	1025	ug/L	2	15	
Fluoranthene	3	0.0409	0.0380	2000	1862	ug/L	-7	15	
Pyrene	3	0.1339	0.1267	1000	951.9	ug/L	-5	15	
Benzo(a)anthracene	3	0.1518	0.1482	1000	975.9	ug/L	-2	15	
Chrysene	3	0.1854	0.1761	1000	950.1	ug/L	-5	15	
Benzo(b)fluoranthene	3	0.0668	0.0632	2000	1891	ug/L	-5	15	
Benzo(k)fluoranthene	3	0.3937	0.3862	1000	982.3	ug/L	-2	15	
Benzo(a)pyrene	3	0.2148	0.2087	1000	971.1	ug/L	-3	15	
Dibenz(a,h)anthracene	3	0.0311	0.0305	2000	1924	ug/L	-4	15	
Benzo(g,h,i)perylene	3	0.0629	0.0609	2000	1917	ug/L	-4	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.0947	1000	980.7	ug/L	-2	15	
1-Methylnaphthalene (F)	3	0.0131	0.0118	50000	45610	ug/L	-9	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185622 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: M IDF : 1.0
Seqnum : 296120490046 File : 08300046 Time : 25-MAR-2006 15:52
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2255

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0138	5000	5305	ug/L	6	15	
Acenaphthylene	1	0.0093	0.0098	10000	10490	ug/L	5	15	
Acenaphthene	1	0.0050	0.0055	5000	5460	ug/L	9	15	
Fluorene	1	0.0629	0.0662	1000	1051	ug/L	5	15	
Phenanthrene	1	0.1797	0.1881	500.0	523.4	ug/L	5	15	
Anthracene	1	0.4065	0.4522	500.0	555.3	ug/L	11	15	
Fluoranthene	1	0.0408	0.0421	1000	1030	ug/L	3	15	
Pyrene	1	0.0329	0.0359	500.0	542.7	ug/L	9	15	
Benzo(a)anthracene	1	0.0901	0.1024	500.0	564.9	ug/L	13	15	
Chrysene	1	0.1322	0.1427	500.0	537.8	ug/L	8	15	
Benzo(b)fluoranthene	1	0.1049	0.1121	1000	1056	ug/L	6	15	
Benzo(k)fluoranthene	1	0.0796	0.0874	500.0	546.6	ug/L	9	15	
Benzo(a)pyrene	1	0.0842	0.0943	500.0	550.0	ug/L	10	15	
Dibenz(a,h)anthracene	1	0.0205	0.0236	1000	1124	ug/L	12	15	
Benzo(g,h,i)perylene	1	0.0349	0.0386	1000	1099	ug/L	10	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.1070	500.0	569.7	ug/L	14	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0083	50000	49200	ug/L	-2	15	
Acenaphthylene	2	0.0277	0.0296	10000	10630	ug/L	6	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	48790	ug/L	-2	15	
Naphthalene	3	0.0118	0.0116	5000	4923	ug/L	-2	15	
Acenaphthene	3	0.0242	0.0246	5000	5076	ug/L	2	15	
Fluorene	3	0.1330	0.1342	1000	1013	ug/L	1	15	
Phenanthrene	3	0.1408	0.1423	500.0	505.3	ug/L	1	15	
Anthracene	3	0.4129	0.4528	500.0	547.7	ug/L	10	15	
Fluoranthene	3	0.0409	0.0408	1000	998.1	ug/L	0	15	
Pyrene	3	0.1339	0.1386	500.0	519.9	ug/L	4	15	
Benzo(a)anthracene	3	0.1518	0.1625	500.0	534.4	ug/L	7	15	
Chrysene	3	0.1854	0.1888	500.0	507.0	ug/L	1	15	
Benzo(b)fluoranthene	3	0.0668	0.0677	1000	1011	ug/L	1	15	
Benzo(k)fluoranthene	3	0.3937	0.4138	500.0	523.0	ug/L	5	15	
Benzo(a)pyrene	3	0.2148	0.2268	500.0	525.8	ug/L	5	15	
Dibenz(a,h)anthracene	3	0.0311	0.0328	1000	1040	ug/L	4	15	
Benzo(g,h,i)perylene	3	0.0629	0.0647	1000	1023	ug/L	2	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.1046	500.0	543.9	ug/L	9	15	
1-Methylnaphthalene (F)	3	0.0131	0.0119	50000	46010	ug/L	-8	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185622 HPLC Water
EPA 8310

Inst : HPLC04
Seqnum : 296124782002
Cal : 295454249001
Standards: S2256

Run Name: L
File : 08600002
Caldate : 11-NOV-2005

IDF : 1.0
Time : 27-MAR-2006 16:13

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0150	2500	2863	ug/L	15	15	
Acenaphthylene	1	0.0093	0.0098	5000	5167	ug/L	3	15	
Acenaphthene	1	0.0050	0.0057	2500	2787	ug/L	11	15	
Fluorene	1	0.0629	0.0674	500.0	533.0	ug/L	7	15	
Phenanthrene	1	0.1797	0.1923	250.0	266.8	ug/L	7	15	
Anthracene	1	0.4065	0.4214	250.0	256.9	ug/L	3	15	
Fluoranthene	1	0.0408	0.0426	500.0	522.9	ug/L	5	15	
Pyrene	1	0.0329	0.0331	250.0	255.3	ug/L	2	15	
Benzo(a)anthracene	1	0.0901	0.0965	250.0	269.4	ug/L	8	15	
Chrysene	1	0.1322	0.1441	250.0	272.8	ug/L	9	15	
Benzo(b)fluoranthene	1	0.1049	0.1119	500.0	529.9	ug/L	6	15	
Benzo(k)fluoranthene	1	0.0796	0.0856	250.0	272.2	ug/L	9	15	
Benzo(a)pyrene	1	0.0842	0.0901	250.0	266.9	ug/L	7	15	
Dibenz(a,h)anthracene	1	0.0205	0.0214	500.0	524.8	ug/L	5	15	
Benzo(g,h,i)perylene	1	0.0349	0.0360	500.0	520.6	ug/L	4	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.0978	250.0	265.2	ug/L	6	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0085	50000	50150	ug/L	0	15	
Acenaphthylene	2	0.0277	0.0299	5000	5378	ug/L	8	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	49750	ug/L	-1	15	
Naphthalene	3	0.0118	0.0120	2500	2493	ug/L	0	15	
Acenaphthene	3	0.0242	0.0246	2500	2505	ug/L	0	15	
Fluorene	3	0.1330	0.1363	500.0	505.6	ug/L	1	15	
Phenanthrene	3	0.1408	0.1453	250.0	253.6	ug/L	1	15	
Anthracene	3	0.4129	0.4203	250.0	252.9	ug/L	1	15	
Fluoranthene	3	0.0409	0.0414	500.0	505.0	ug/L	1	15	
Pyrene	3	0.1339	0.1342	250.0	250.5	ug/L	0	15	
Benzo(a)anthracene	3	0.1518	0.1557	250.0	255.4	ug/L	2	15	
Chrysene	3	0.1854	0.1932	250.0	256.7	ug/L	3	15	
Benzo(b)fluoranthene	3	0.0668	0.0682	500.0	509.7	ug/L	2	15	
Benzo(k)fluoranthene	3	0.3937	0.4072	250.0	253.6	ug/L	1	15	
Benzo(a)pyrene	3	0.2148	0.2191	250.0	252.1	ug/L	1	15	
Dibenz(a,h)anthracene	3	0.0311	0.0318	500.0	512.0	ug/L	2	15	
Benzo(g,h,i)perylene	3	0.0629	0.0613	500.0	488.8	ug/L	-2	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.0974	250.0	256.7	ug/L	3	15	
1-Methylnaphthalene (F)	3	0.0131	0.0122	50000	47420	ug/L	-5	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185622 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: M IDF : 1.0
Seqnum : 296124782016 File : 08600016 Time : 27-MAR-2006 23:36
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2255

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0138	5000	5293	ug/L	6	15	
Acenaphthylene	1	0.0093	0.0097	10000	10410	ug/L	4	15	
Acenaphthene	1	0.0050	0.0054	5000	5277	ug/L	6	15	
Fluorene	1	0.0629	0.0654	1000	1038	ug/L	4	15	
Phenanthrene	1	0.1797	0.1864	500.0	518.5	ug/L	4	15	
Anthracene	1	0.4065	0.4094	500.0	502.5	ug/L	0	15	
Fluoranthene	1	0.0408	0.0417	1000	1019	ug/L	2	15	
Pyrene	1	0.0329	0.0332	500.0	503.3	ug/L	1	15	
Benzo(a)anthracene	1	0.0901	0.0960	500.0	529.7	ug/L	6	15	
Chrysene	1	0.1322	0.1416	500.0	533.5	ug/L	7	15	
Benzo(b)fluoranthene	1	0.1049	0.1114	1000	1049	ug/L	5	15	
Benzo(k)fluoranthene	1	0.0796	0.0856	500.0	535.0	ug/L	7	15	
Benzo(a)pyrene	1	0.0842	0.0897	500.0	523.7	ug/L	5	15	
Dibenz(a,h)anthracene	1	0.0205	0.0216	1000	1029	ug/L	3	15	
Benzo(g,h,i)perylene	1	0.0349	0.0351	1000	1000	ug/L	0	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.0978	500.0	521.7	ug/L	4	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0083	50000	49000	ug/L	-2	15	
Acenaphthylene	2	0.0277	0.0294	10000	10540	ug/L	5	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0029	50000	48310	ug/L	-3	15	
Naphthalene	3	0.0118	0.0117	5000	4948	ug/L	-1	15	
Acenaphthene	3	0.0242	0.0240	5000	4944	ug/L	-1	15	
Fluorene	3	0.1330	0.1332	1000	1005	ug/L	1	15	
Phenanthrene	3	0.1408	0.1408	500.0	499.8	ug/L	0	15	
Anthracene	3	0.4129	0.4117	500.0	497.7	ug/L	0	15	
Fluoranthene	3	0.0409	0.0406	1000	991.8	ug/L	-1	15	
Pyrene	3	0.1339	0.1300	500.0	487.5	ug/L	-2	15	
Benzo(a)anthracene	3	0.1518	0.1522	500.0	500.5	ug/L	0	15	
Chrysene	3	0.1854	0.1883	500.0	505.6	ug/L	1	15	
Benzo(b)fluoranthene	3	0.0668	0.0673	1000	1005	ug/L	1	15	
Benzo(k)fluoranthene	3	0.3937	0.4057	500.0	512.6	ug/L	3	15	
Benzo(a)pyrene	3	0.2148	0.2159	500.0	500.4	ug/L	0	15	
Dibenz(a,h)anthracene	3	0.0311	0.0320	1000	1016	ug/L	2	15	
Benzo(g,h,i)perylene	3	0.0629	0.0601	1000	950.5	ug/L	-5	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.0965	500.0	502.3	ug/L	0	15	
1-Methylnaphthalene (F)	3	0.0131	0.0119	50000	46050	ug/L	-8	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185622 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: L IDF : 1.0
Seqnum : 296126206002 File : 08700002 Time : 28-MAR-2006 15:58
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2256

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0149	2500	2846	ug/L	14	15	
Acenaphthylene	1	0.0093	0.0098	5000	5156	ug/L	3	15	
Acenaphthene	1	0.0050	0.0058	2500	2802	ug/L	12	15	
Fluorene	1	0.0629	0.0667	500.0	527.4	ug/L	5	15	
Phenanthrene	1	0.1797	0.1915	250.0	265.7	ug/L	6	15	
Anthracene	1	0.4065	0.4553	250.0	277.9	ug/L	11	15	
Fluoranthene	1	0.0408	0.0430	500.0	528.2	ug/L	6	15	
Pyrene	1	0.0329	0.0367	250.0	282.2	ug/L	13	15	
Benzo(a)anthracene	1	0.0901	0.1014	250.0	282.7	ug/L	13	15	
Chrysene	1	0.1322	0.1447	250.0	274.0	ug/L	10	15	
Benzo(b)fluoranthene	1	0.1049	0.1116	500.0	528.5	ug/L	6	15	
Benzo(k)fluoranthene	1	0.0796	0.0858	250.0	272.8	ug/L	9	15	
Benzo(a)pyrene	1	0.0842	0.0933	250.0	276.3	ug/L	11	15	
Dibenz(a,h)anthracene	1	0.0205	0.0223	500.0	545.0	ug/L	9	15	
Benzo(g,h,i)perylene	1	0.0349	0.0374	500.0	540.4	ug/L	8	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.1018	250.0	275.6	ug/L	10	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0084	50000	50020	ug/L	0	15	
Acenaphthylene	2	0.0277	0.0298	5000	5347	ug/L	7	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	49610	ug/L	-1	15	
Naphthalene	3	0.0118	0.0120	2500	2488	ug/L	0	15	
Acenaphthene	3	0.0242	0.0252	2500	2564	ug/L	3	15	
Fluorene	3	0.1330	0.1370	500.0	508.3	ug/L	2	15	
Phenanthrene	3	0.1408	0.1452	250.0	253.4	ug/L	1	15	
Anthracene	3	0.4129	0.4564	250.0	274.8	ug/L	10	15	
Fluoranthene	3	0.0409	0.0413	500.0	503.1	ug/L	1	15	
Pyrene	3	0.1339	0.1430	250.0	267.1	ug/L	7	15	
Benzo(a)anthracene	3	0.1518	0.1649	250.0	270.6	ug/L	8	15	
Chrysene	3	0.1854	0.1937	250.0	257.4	ug/L	3	15	
Benzo(b)fluoranthene	3	0.0668	0.0682	500.0	509.6	ug/L	2	15	
Benzo(k)fluoranthene	3	0.3937	0.4147	250.0	258.4	ug/L	3	15	
Benzo(a)pyrene	3	0.2148	0.2313	250.0	266.3	ug/L	7	15	
Dibenz(a,h)anthracene	3	0.0311	0.0320	500.0	515.7	ug/L	3	15	
Benzo(g,h,i)perylene	3	0.0629	0.0633	500.0	504.6	ug/L	1	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.0997	250.0	262.6	ug/L	5	15	
1-Methylnaphthalene (F)	3	0.0131	0.0122	50000	47420	ug/L	-5	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185622 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: H IDF : 1.0
Seqnum : 296126206010 File : 08700010 Time : 28-MAR-2006 20:11
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2954

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0129	10000	9911	ug/L	-1	15	
Acenaphthylene	1	0.0093	0.0091	20000	19690	ug/L	-2	15	
Acenaphthene	1	0.0050	0.0051	10000	10130	ug/L	1	15	
Fluorene	1	0.0629	0.0618	2000	1962	ug/L	-2	15	
Phenanthrene	1	0.1797	0.1757	1000	978.6	ug/L	-2	15	
Anthracene	1	0.4065	0.4201	1000	1035	ug/L	3	15	
Fluoranthene	1	0.0408	0.0398	2000	1940	ug/L	-3	15	
Pyrene	1	0.0329	0.0329	1000	987.0	ug/L	-1	15	
Benzo(a)anthracene	1	0.0901	0.0934	1000	1026	ug/L	3	15	
Chrysene	1	0.1322	0.1325	1000	996.2	ug/L	0	15	
Benzo(b)fluoranthene	1	0.1049	0.1047	2000	1969	ug/L	-2	15	
Benzo(k)fluoranthene	1	0.0796	0.0814	1000	1010	ug/L	1	15	
Benzo(a)pyrene	1	0.0842	0.0862	1000	998.8	ug/L	0	15	
Dibenz(a,h)anthracene	1	0.0205	0.0214	2000	2009	ug/L	0	15	
Benzo(g,h,i)perylene	1	0.0349	0.0352	2000	1986	ug/L	-1	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.0970	1000	1026	ug/L	3	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0083	50000	49110	ug/L	-2	15	
Acenaphthylene	2	0.0277	0.0276	20000	19780	ug/L	-1	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	48770	ug/L	-2	15	
Naphthalene	3	0.0118	0.0109	10000	9272	ug/L	-7	15	
Acenaphthene	3	0.0242	0.0228	10000	9458	ug/L	-5	15	
Fluorene	3	0.1330	0.1246	2000	1897	ug/L	-5	15	
Phenanthrene	3	0.1408	0.1329	1000	951.5	ug/L	-5	15	
Anthracene	3	0.4129	0.4217	1000	1022	ug/L	2	15	
Fluoranthene	3	0.0409	0.0381	2000	1864	ug/L	-7	15	
Pyrene	3	0.1339	0.1289	1000	968.7	ug/L	-3	15	
Benzo(a)anthracene	3	0.1518	0.1487	1000	979.1	ug/L	-2	15	
Chrysene	3	0.1854	0.1768	1000	953.7	ug/L	-5	15	
Benzo(b)fluoranthene	3	0.0668	0.0634	2000	1895	ug/L	-5	15	
Benzo(k)fluoranthene	3	0.3937	0.3851	1000	979.6	ug/L	-2	15	
Benzo(a)pyrene	3	0.2148	0.2101	1000	977.7	ug/L	-2	15	
Dibenz(a,h)anthracene	3	0.0311	0.0306	2000	1926	ug/L	-4	15	
Benzo(g,h,i)perylene	3	0.0629	0.0601	2000	1891	ug/L	-5	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.0946	1000	978.9	ug/L	-2	15	
1-Methylnaphthalene (F)	3	0.0131	0.0118	50000	45900	ug/L	-8	15	

SEQUENCE SUMMARY FOR 185622 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 295454249 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 11-NOV-2005
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	31500001	X	PRIMER - 315			11-NOV-2005 10:49	1.0						
002	31500002	X	PRIMER			11-NOV-2005 11:20	1.0						
003	31500003	X	IB - 315			11-NOV-2005 11:52	1.0						
004	31500004	X	IB			11-NOV-2005 12:24	1.0						
005	31500005	X	IB			11-NOV-2005 12:55	1.0						
006	31500006	ICAL				11-NOV-2005 13:27	1.0					1	
007	31500007	ICAL				11-NOV-2005 13:58	1.0					2	
008	31500008	ICAL				11-NOV-2005 14:30	1.0					3	
009	31500009	ICAL				11-NOV-2005 15:02	1.0					4	
010	31500010	ICAL				11-NOV-2005 15:33	1.0					5	
011	31500011	ICAL				11-NOV-2005 16:05	1.0					6	
012	31500012	ICAL				11-NOV-2005 16:36	1.0					7	
013	31500013	X	IB			11-NOV-2005 17:08	1.0						
014	31500014	X	IB			11-NOV-2005 17:40	1.0						
015	31500015	ICV				11-NOV-2005 18:11	1.0		10			8	412
016	31500016	X	ICV			11-NOV-2005 18:43	1.0					8	
017	31500017	X	IB			11-NOV-2005 19:14	1.0						

Stds used: 1=S1620 2=S1619 3=S1618 4=S1617 5=S1616 6=S1615 7=S1614 8=S1859

SEQUENCE SUMMARY FOR 185622 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296118730 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 23-MAR-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	08200001	X	IB - 082			23-MAR-2006 10:50	1.0						
002	08200002	CCV	L			23-MAR-2006 11:22	1.0	1.0			10	1	
003	08200003	X	CCV			23-MAR-2006 11:54	1.0					1	
004	08200004	X	IB			23-MAR-2006 12:25	1.0						
005	08200005	SAMPLE	185590-009	111515	Water	23-MAR-2006 12:57	5.0	0.001887			10		
006	08200006	SAMPLE	185590-010	111515	Water	23-MAR-2006 13:28	10.0	0.001887			10		
007	08200007	SAMPLE	185590-004	111515	Water	23-MAR-2006 14:00	100.0	0.001887			10		
008	08200008	SAMPLE	185590-005	111515	Water	23-MAR-2006 14:32	100.0	0.001887			10		
009	08200009	SAMPLE	185590-006	111515	Water	23-MAR-2006 15:03	100.0	0.001887			10		
010	08200010	SAMPLE	185590-007	111515	Water	23-MAR-2006 15:35	100.0	0.001887			10		
011	08200011	SAMPLE	185590-008	111515	Water	23-MAR-2006 16:06	100.0	0.001887			10		
012	08200012	X	IB			23-MAR-2006 16:38	1.0						
013	08200013	BS	QC332576	111569	Water	23-MAR-2006 17:10	1.0	0.002			10		
014	08200014	BSD	QC332577	111569	Water	23-MAR-2006 17:41	1.0	0.002			10		
015	08200015	BLANK	QC332575	111569	Water	23-MAR-2006 18:13	1.0	0.002			10		413
016	08200016	X	IB			23-MAR-2006 18:45	1.0						
017	08200017	CCV	M			23-MAR-2006 19:16	1.0	1.0			10	2	
018	08200018	X	CCV			23-MAR-2006 19:48	1.0					2	
019	08200019	X	IB			23-MAR-2006 20:19	1.0						
020	08200020	SAMPLE	185590-011	111569	Water	23-MAR-2006 20:51	1.0	0.001887			10		
021	08200021	SAMPLE	185590-012	111569	Water	23-MAR-2006 21:22	1.0	0.001887			10		
022	08200022	SAMPLE	185590-014	111569	Water	23-MAR-2006 21:54	1.0	0.001887			10		
023	08200023	SAMPLE	185590-016	111569	Water	23-MAR-2006 22:26	1.0	0.001887			10		
024	08200024	SAMPLE	185590-021	111569	Water	23-MAR-2006 22:57	1.0	0.001887			10		
025	08200025	X	IB			23-MAR-2006 23:29	1.0						
026	08200026	LCS	QC332785	111617	Miscel	24-MAR-2006 00:00	1.0	0.06572			10		
027	08200027	BLANK	QC332784	111617	Miscel	24-MAR-2006 00:32	1.0	0.06693	2		10		
028	08200028	MSS	185540-006	111617	Miscel	24-MAR-2006 01:04	1.0	0.06743	2		10		
029	08200029	MS	QC332786	111617	Miscel	24-MAR-2006 01:35	1.0	0.06651		2	10		
030	08200030	MSD	QC332787	111617	Miscel	24-MAR-2006 02:07	1.0	0.06725		3	10		
031	08200031	X	IB			24-MAR-2006 02:38	1.0						

Stds used: 1=S2256 2=S2255 3=S2954

SEQUENCE SUMMARY FOR 185622 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296118730 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 23-MAR-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	08200032	X	IB			24-MAR-2006 03:10	1.0						
033	08200033	X	IB			24-MAR-2006 03:42	1.0						
034	08200034	CCV	H			24-MAR-2006 04:13	1.0	1.0			10	3	
035	08200035	X	CCV			24-MAR-2006 04:45	1.0					3	
036	08200036	X	IB			24-MAR-2006 05:16	1.0						
037	08200037	SAMPLE	185622-003	111569	Water	24-MAR-2006 05:48	1.0	0.001887			10		
038	08200038	SAMPLE	185590-022	111569	Water	24-MAR-2006 06:20	1.0	0.001887	3		10		3:NAPH=72447.9
039	08200039	SAMPLE	185590-013	111569	Water	24-MAR-2006 06:51	5.0	0.001887			10		
040	08200040	SAMPLE	185590-015	111569	Water	24-MAR-2006 07:23	5.0	0.001887	2	3	10		2:PHAN=7051.67
041	08200041	SAMPLE	185590-017	111569	Water	24-MAR-2006 07:54	5.0	0.001887		1	10		
042	08200042	SAMPLE	185590-024	111569	Water	24-MAR-2006 08:26	10.0	0.001887	3		10		3:NAPH=187958
043	08200043	SAMPLE	185590-019	111569	Water	24-MAR-2006 08:58	20.0	0.001887			10		
044	08200044	SAMPLE	185590-020	111569	Water	24-MAR-2006 09:29	20.0	0.001887			10		
045	08200045	SAMPLE	185590-018	111569	Water	24-MAR-2006 10:01	50.0	0.001887			10		
046	08200046	SAMPLE	185590-023	111569	Water	24-MAR-2006 10:33	50.0	0.001887			10		414
047	08200047	X	IB			24-MAR-2006 11:04	1.0						
048	08200048	X	IB			24-MAR-2006 11:36	1.0						
049	08200049	CCV	M			24-MAR-2006 12:07	1.0	1.0			10	2	
050	08200050	X	CCV			24-MAR-2006 12:39	1.0					2	
051	08200051	X	IB			24-MAR-2006 13:11	1.0						

Stds used: 1=S2256 2=S2255 3=S2954

SEQUENCE SUMMARY FOR 185622 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296120490 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 24-MAR-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	08300001	X	IB - 083			24-MAR-2006 16:10	1.0					
002	08300002	CCV	L			24-MAR-2006 16:41	1.0	1.0		10	1	
003	08300003	X	CCV			24-MAR-2006 17:13	1.0				1	
004	08300004	X	IB			24-MAR-2006 17:45	1.0					
005	08300005	BS	QC332809	111623	Water	24-MAR-2006 18:16	1.0	0.002		10		
006	08300006	BSD	QC332810	111623	Water	24-MAR-2006 18:48	1.0	0.002		10		
007	08300007	BLANK	QC332808	111623	Water	24-MAR-2006 19:19	1.0	0.002		10		
008	08300008	SAMPLE	185622-021	111623	Water	24-MAR-2006 19:51	1.0	0.001923		10		
009	08300009	SAMPLE	185622-022	111623	Water	24-MAR-2006 20:23	1.0	0.001923		10		
010	08300010	SAMPLE	185622-023	111623	Water	24-MAR-2006 20:54	1.0	0.001942		10		
011	08300011	SAMPLE	185622-024	111623	Water	24-MAR-2006 21:26	1.0	0.001961		10		
012	08300012	SAMPLE	185622-025	111623	Water	24-MAR-2006 21:57	1.0	0.001942		10		
013	08300013	SAMPLE	185622-027	111623	Water	24-MAR-2006 22:29	1.0	0.001923		10		
014	08300014	SAMPLE	185629-001	111623	Water	24-MAR-2006 23:01	1.0	0.001887	2	10		2:FL=11278.5
015	08300015	X	IB			24-MAR-2006 23:32	1.0					
016	08300016	CCV	M			25-MAR-2006 00:04	1.0	1.0		10	2	
017	08300017	X	CCV			25-MAR-2006 00:35	1.0				2	
018	08300018	X	IB			25-MAR-2006 01:07	1.0					
019	08300019	SAMPLE	185629-002	111623	Water	25-MAR-2006 01:39	1.0	0.001887		10		
020	08300020	SAMPLE	185629-006	111623	Water	25-MAR-2006 02:10	1.0	0.001887		10		
021	08300021	SAMPLE	185629-007	111623	Water	25-MAR-2006 02:42	1.0	0.001887		10		
022	08300022	SAMPLE	185629-008	111623	Water	25-MAR-2006 03:13	1.0	0.001887		10		
023	08300023	SAMPLE	185629-009	111623	Water	25-MAR-2006 03:45	1.0	0.001887	1	10		1:FL=7784.30
024	08300024	SAMPLE	185629-010	111623	Water	25-MAR-2006 04:17	1.0	0.001887		10		
025	08300025	SAMPLE	185629-012	111623	Water	25-MAR-2006 04:48	1.0	0.001887		10		
026	08300026	SAMPLE	185629-013	111623	Water	25-MAR-2006 05:20	1.0	0.001887		10		
027	08300027	SAMPLE	185629-014	111623	Water	25-MAR-2006 05:51	1.0	0.001887		10		
028	08300028	SAMPLE	185629-015	111623	Water	25-MAR-2006 06:23	1.0	0.001905		10		
029	08300029	X	IB			25-MAR-2006 06:55	1.0					
030	08300030	CCV	H			25-MAR-2006 07:26	1.0	1.0		10	3	
031	08300031	X	CCV			25-MAR-2006 07:58	1.0				3	

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Stds used: 1=S2256 2=S2255 3=S2954

SEQUENCE SUMMARY FOR 185622 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296120490 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 24-MAR-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	08300032	X	IB			25-MAR-2006 08:29	1.0						
033	08300033	SAMPLE	185622-004	111569	Water	25-MAR-2006 09:01	1.0	0.001887			10		
034	08300034	SAMPLE	185622-005	111569	Water	25-MAR-2006 09:33	1.0	0.001905			10		
035	08300035	SAMPLE	185622-006	111569	Water	25-MAR-2006 10:04	1.0	0.001923			10		
036	08300036	SAMPLE	185622-020	111569	Water	25-MAR-2006 10:36	1.0	0.001942			10		
037	08300037	SAMPLE	185629-005	111623	Water	25-MAR-2006 11:08	1.0	0.001887	7	2	10	9:NAPH=223846	
038	08300038	SAMPLE	185629-011	111623	Water	25-MAR-2006 11:39	1.0	0.001887	8		10	8:ACNP=67227.7	
039	08300039	SAMPLE	185622-026	111623	Water	25-MAR-2006 12:11	1.0	0.001923	1		10	1:PYR=13056.9	
040	08300040	X	IB			25-MAR-2006 12:43	1.0						
041	08300041	SAMPLE	185590-022	111569	Water	25-MAR-2006 13:14	5.0	0.001887			10		
042	08300042	SAMPLE	185590-015	111569	Water	25-MAR-2006 13:46	20.0	0.001887			10		
043	08300043	SAMPLE	185590-024	111569	Water	25-MAR-2006 14:17	100.0	0.001887			10		
044	08300044	X	IB			25-MAR-2006 14:49	1.0						
045	08300045	X	IB			25-MAR-2006 15:21	1.0						
046	08300046	CCV	M			25-MAR-2006 15:52	1.0	1.0			10	2	416
047	08300047	X	CCV			25-MAR-2006 16:24	1.0					2	
048	08300048	X	IB			25-MAR-2006 16:55	1.0						

Stds used: 1=S2256 2=S2255 3=S2954

SEQUENCE SUMMARY FOR 185622 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296124782 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 27-MAR-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	08600001	X	IB - 086			27-MAR-2006 15:42	1.0						
002	08600002	CCV	L			27-MAR-2006 16:13	1.0	1.0			10	1	
003	08600003	X	CCV			27-MAR-2006 16:45	1.0					1	
004	08600004	X	IB			27-MAR-2006 17:16	1.0						
005	08600005	BS	QC332985	111665	Water	27-MAR-2006 17:48	1.0	0.002			10		
006	08600006	BSD	QC332986	111665	Water	27-MAR-2006 18:20	1.0	0.002			10		
007	08600007	BLANK	QC332984	111665	Water	27-MAR-2006 18:51	1.0	0.002			10		
008	08600008	SAMPLE	185622-030	111665	Water	27-MAR-2006 19:23	1.0	0.001905			10		
009	08600009	SAMPLE	185622-031	111665	Water	27-MAR-2006 19:55	1.0	0.001905			10		
010	08600010	SAMPLE	185622-033	111665	Water	27-MAR-2006 20:26	1.0	0.001887		1	10		
011	08600011	SAMPLE	185622-034	111665	Water	27-MAR-2006 20:58	1.0	0.001905			10		
012	08600012	SAMPLE	185622-035	111665	Water	27-MAR-2006 21:29	1.0	0.00198			10		
013	08600013	SAMPLE	185622-036	111665	Water	27-MAR-2006 22:01	1.0	0.001887			10		
014	08600014	SAMPLE	185622-037	111665	Water	27-MAR-2006 22:33	1.0	0.001887			10		
015	08600015	X	IB			27-MAR-2006 23:04	1.0						
016	08600016	CCV	M			27-MAR-2006 23:36	1.0	1.0			10	2	417
017	08600017	X	CCV			28-MAR-2006 00:07	1.0					2	
018	08600018	X	IB			28-MAR-2006 00:39	1.0						
019	08600019	SAMPLE	185638-001	111665	Water	28-MAR-2006 01:11	1.0						
020	08600020	SAMPLE	185638-002	111665	Water	28-MAR-2006 01:42	1.0						
021	08600021	SAMPLE	185638-003	111665	Water	28-MAR-2006 02:14	1.0						
022	08600022	SAMPLE	185638-005	111665	Water	28-MAR-2006 02:45	1.0						
023	08600023	SAMPLE	185638-006	111665	Water	28-MAR-2006 03:17	1.0						
024	08600024	SAMPLE	185638-007	111665	Water	28-MAR-2006 03:49	1.0						
025	08600025	SAMPLE	185638-004	111665	Water	28-MAR-2006 04:20	1.0						
026	08600026	X	IB			28-MAR-2006 04:52	1.0						
027	08600027	SAMPLE	185590-013	111569	Water	28-MAR-2006 05:23	1.0	0.001887			10		
028	08600028	X	IB			28-MAR-2006 05:55	1.0						
029	08600029	CCV	H			28-MAR-2006 06:27	1.0	1.0			10	3	
030	08600030	X	CCV			28-MAR-2006 06:58	1.0					3	
031	08600031	X	IB			28-MAR-2006 07:30	1.0						

Stds used: 1=S2256 2=S2255 3=S2954

SEQUENCE SUMMARY FOR 185622 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296126206 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 28-MAR-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	08700001	X	IB - 087			28-MAR-2006 15:26	1.0						
002	08700002	CCV	L			28-MAR-2006 15:58	1.0	1.0			10	1	
003	08700003	X	CCV			28-MAR-2006 16:29	1.0					2	
004	08700004	X	IB			28-MAR-2006 17:01	1.0						
005	08700005	SAMPLE	185622-033	111665	Water	28-MAR-2006 17:32	1.0	0.001887			10		
006	08700006	SAMPLE	185629-001	111623	Water	28-MAR-2006 18:04	4.0	0.001887			10		
007	08700007	SAMPLE	185629-011	111623	Water	28-MAR-2006 18:36	5.0	0.001887	1		10		1:FL=5164.83
008	08700008	SAMPLE	185629-005	111623	Water	28-MAR-2006 19:07	10.0	0.001887			10		
009	08700009	X	IB			28-MAR-2006 19:39	1.0						
010	08700010	CCV	H			28-MAR-2006 20:11	1.0	1.0			10	3	
011	08700011	X	CCV			28-MAR-2006 20:42	1.0					3	
012	08700012	X	IB			28-MAR-2006 21:14	1.0						

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Stds used: 1=S2256 2=S2255 3=S2954

REPORTING SUMMARY FOR 185622 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185622-003	Naphthalene	HPLC04	1	03/24/06 05:48
185622-003	Acenaphthylene	HPLC04	1	03/24/06 05:48
185622-003	Acenaphthene	HPLC04	1	03/24/06 05:48
185622-003	Fluorene	HPLC04	1	03/24/06 05:48
185622-003	Phenanthrene	HPLC04	3	03/24/06 05:48
185622-003	Anthracene	HPLC04	3	03/24/06 05:48
185622-003	Fluoranthene	HPLC04	3	03/24/06 05:48
185622-003	Pyrene	HPLC04	3	03/24/06 05:48
185622-003	Benzo(a)anthracene	HPLC04	3	03/24/06 05:48
185622-003	Chrysene	HPLC04	3	03/24/06 05:48
185622-003	Benzo(b)fluoranthene	HPLC04	3	03/24/06 05:48
185622-003	Benzo(k)fluoranthene	HPLC04	3	03/24/06 05:48
185622-003	Benzo(a)pyrene	HPLC04	3	03/24/06 05:48
185622-003	Dibenz(a,h)anthracene	HPLC04	3	03/24/06 05:48
185622-003	Benzo(g,h,i)perylene	HPLC04	3	03/24/06 05:48
185622-003	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/24/06 05:48
185622-003	1-Methylnaphthalene (UV)	HPLC04	1	03/24/06 05:48
185622-003	1-Methylnaphthalene (F)	HPLC04	3	03/24/06 05:48
185622-004	Naphthalene	HPLC04	1	03/25/06 09:01
185622-004	Acenaphthylene	HPLC04	1	03/25/06 09:01
185622-004	Acenaphthene	HPLC04	1	03/25/06 09:01
185622-004	Fluorene	HPLC04	1	03/25/06 09:01
185622-004	Phenanthrene	HPLC04	3	03/25/06 09:01
185622-004	Anthracene	HPLC04	3	03/25/06 09:01
185622-004	Fluoranthene	HPLC04	3	03/25/06 09:01
185622-004	Pyrene	HPLC04	3	03/25/06 09:01
185622-004	Benzo(a)anthracene	HPLC04	3	03/25/06 09:01
185622-004	Chrysene	HPLC04	3	03/25/06 09:01
185622-004	Benzo(b)fluoranthene	HPLC04	3	03/25/06 09:01
185622-004	Benzo(k)fluoranthene	HPLC04	3	03/25/06 09:01
185622-004	Benzo(a)pyrene	HPLC04	3	03/25/06 09:01
185622-004	Dibenz(a,h)anthracene	HPLC04	3	03/25/06 09:01
185622-004	Benzo(g,h,i)perylene	HPLC04	3	03/25/06 09:01
185622-004	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/25/06 09:01
185622-004	1-Methylnaphthalene (UV)	HPLC04	1	03/25/06 09:01
185622-004	1-Methylnaphthalene (F)	HPLC04	3	03/25/06 09:01
185622-005	Naphthalene	HPLC04	1	03/25/06 09:33
185622-005	Acenaphthylene	HPLC04	1	03/25/06 09:33
185622-005	Acenaphthene	HPLC04	1	03/25/06 09:33
185622-005	Fluorene	HPLC04	1	03/25/06 09:33
185622-005	Phenanthrene	HPLC04	3	03/25/06 09:33
185622-005	Anthracene	HPLC04	3	03/25/06 09:33
185622-005	Fluoranthene	HPLC04	3	03/25/06 09:33
185622-005	Pyrene	HPLC04	3	03/25/06 09:33
185622-005	Benzo(a)anthracene	HPLC04	3	03/25/06 09:33
185622-005	Chrysene	HPLC04	3	03/25/06 09:33
185622-005	Benzo(b)fluoranthene	HPLC04	3	03/25/06 09:33
185622-005	Benzo(k)fluoranthene	HPLC04	3	03/25/06 09:33
185622-005	Benzo(a)pyrene	HPLC04	3	03/25/06 09:33
185622-005	Dibenz(a,h)anthracene	HPLC04	3	03/25/06 09:33
185622-005	Benzo(g,h,i)perylene	HPLC04	3	03/25/06 09:33
185622-005	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/25/06 09:33

REPORTING SUMMARY FOR 185622 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185622-005	1-Methylnaphthalene (UV)	HPLC04	1	03/25/06 09:33
185622-005	1-Methylnaphthalene (F)	HPLC04	3	03/25/06 09:33
185622-006	Naphthalene	HPLC04	1	03/25/06 10:04
185622-006	Acenaphthylene	HPLC04	1	03/25/06 10:04
185622-006	Acenaphthene	HPLC04	1	03/25/06 10:04
185622-006	Fluorene	HPLC04	1	03/25/06 10:04
185622-006	Phenanthrene	HPLC04	3	03/25/06 10:04
185622-006	Anthracene	HPLC04	3	03/25/06 10:04
185622-006	Fluoranthene	HPLC04	3	03/25/06 10:04
185622-006	Pyrene	HPLC04	3	03/25/06 10:04
185622-006	Benzo(a)anthracene	HPLC04	3	03/25/06 10:04
185622-006	Chrysene	HPLC04	3	03/25/06 10:04
185622-006	Benzo(b)fluoranthene	HPLC04	3	03/25/06 10:04
185622-006	Benzo(k)fluoranthene	HPLC04	3	03/25/06 10:04
185622-006	Benzo(a)pyrene	HPLC04	3	03/25/06 10:04
185622-006	Dibenz(a,h)anthracene	HPLC04	3	03/25/06 10:04
185622-006	Benzo(g,h,i)perylene	HPLC04	3	03/25/06 10:04
185622-006	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/25/06 10:04
185622-006	1-Methylnaphthalene (UV)	HPLC04	1	03/25/06 10:04
185622-006	1-Methylnaphthalene (F)	HPLC04	3	03/25/06 10:04
185622-020	Naphthalene	HPLC04	1	03/25/06 10:36
185622-020	Acenaphthylene	HPLC04	1	03/25/06 10:36
185622-020	Acenaphthene	HPLC04	1	03/25/06 10:36
185622-020	Fluorene	HPLC04	1	03/25/06 10:36
185622-020	Phenanthrene	HPLC04	3	03/25/06 10:36
185622-020	Anthracene	HPLC04	3	03/25/06 10:36
185622-020	Fluoranthene	HPLC04	3	03/25/06 10:36
185622-020	Pyrene	HPLC04	3	03/25/06 10:36
185622-020	Benzo(a)anthracene	HPLC04	3	03/25/06 10:36
185622-020	Chrysene	HPLC04	3	03/25/06 10:36
185622-020	Benzo(b)fluoranthene	HPLC04	3	03/25/06 10:36
185622-020	Benzo(k)fluoranthene	HPLC04	3	03/25/06 10:36
185622-020	Benzo(a)pyrene	HPLC04	3	03/25/06 10:36
185622-020	Dibenz(a,h)anthracene	HPLC04	3	03/25/06 10:36
185622-020	Benzo(g,h,i)perylene	HPLC04	3	03/25/06 10:36
185622-020	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/25/06 10:36
185622-020	1-Methylnaphthalene (UV)	HPLC04	1	03/25/06 10:36
185622-020	1-Methylnaphthalene (F)	HPLC04	3	03/25/06 10:36
185622-021	Naphthalene	HPLC04	1	03/24/06 19:51
185622-021	Acenaphthylene	HPLC04	1	03/24/06 19:51
185622-021	Acenaphthene	HPLC04	1	03/24/06 19:51
185622-021	Fluorene	HPLC04	1	03/24/06 19:51
185622-021	Phenanthrene	HPLC04	3	03/24/06 19:51
185622-021	Anthracene	HPLC04	3	03/24/06 19:51
185622-021	Fluoranthene	HPLC04	3	03/24/06 19:51
185622-021	Pyrene	HPLC04	3	03/24/06 19:51
185622-021	Benzo(a)anthracene	HPLC04	3	03/24/06 19:51
185622-021	Chrysene	HPLC04	3	03/24/06 19:51
185622-021	Benzo(b)fluoranthene	HPLC04	3	03/24/06 19:51
185622-021	Benzo(k)fluoranthene	HPLC04	3	03/24/06 19:51
185622-021	Benzo(a)pyrene	HPLC04	3	03/24/06 19:51

REPORTING SUMMARY FOR 185622 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185622-021	Dibenz(a,h)anthracene	HPLC04	3	03/24/06 19:51
185622-021	Benzo(g,h,i)perylene	HPLC04	3	03/24/06 19:51
185622-021	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/24/06 19:51
185622-021	1-Methylnaphthalene (UV)	HPLC04	1	03/24/06 19:51
185622-021	1-Methylnaphthalene (F)	HPLC04	3	03/24/06 19:51
185622-022	Naphthalene	HPLC04	1	03/24/06 20:23
185622-022	Acenaphthylene	HPLC04	1	03/24/06 20:23
185622-022	Acenaphthene	HPLC04	1	03/24/06 20:23
185622-022	Fluorene	HPLC04	1	03/24/06 20:23
185622-022	Phenanthrene	HPLC04	3	03/24/06 20:23
185622-022	Anthracene	HPLC04	3	03/24/06 20:23
185622-022	Fluoranthene	HPLC04	3	03/24/06 20:23
185622-022	Pyrene	HPLC04	3	03/24/06 20:23
185622-022	Benzo(a)anthracene	HPLC04	3	03/24/06 20:23
185622-022	Chrysene	HPLC04	3	03/24/06 20:23
185622-022	Benzo(b)fluoranthene	HPLC04	3	03/24/06 20:23
185622-022	Benzo(k)fluoranthene	HPLC04	3	03/24/06 20:23
185622-022	Benzo(a)pyrene	HPLC04	3	03/24/06 20:23
185622-022	Dibenz(a,h)anthracene	HPLC04	3	03/24/06 20:23
185622-022	Benzo(g,h,i)perylene	HPLC04	3	03/24/06 20:23
185622-022	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/24/06 20:23
185622-022	1-Methylnaphthalene (UV)	HPLC04	1	03/24/06 20:23
185622-022	1-Methylnaphthalene (F)	HPLC04	3	03/24/06 20:23
185622-023	Naphthalene	HPLC04	1	03/24/06 20:54
185622-023	Acenaphthylene	HPLC04	1	03/24/06 20:54
185622-023	Acenaphthene	HPLC04	1	03/24/06 20:54
185622-023	Fluorene	HPLC04	1	03/24/06 20:54
185622-023	Phenanthrene	HPLC04	3	03/24/06 20:54
185622-023	Anthracene	HPLC04	3	03/24/06 20:54
185622-023	Fluoranthene	HPLC04	3	03/24/06 20:54
185622-023	Pyrene	HPLC04	3	03/24/06 20:54
185622-023	Benzo(a)anthracene	HPLC04	3	03/24/06 20:54
185622-023	Chrysene	HPLC04	3	03/24/06 20:54
185622-023	Benzo(b)fluoranthene	HPLC04	3	03/24/06 20:54
185622-023	Benzo(k)fluoranthene	HPLC04	3	03/24/06 20:54
185622-023	Benzo(a)pyrene	HPLC04	3	03/24/06 20:54
185622-023	Dibenz(a,h)anthracene	HPLC04	3	03/24/06 20:54
185622-023	Benzo(g,h,i)perylene	HPLC04	3	03/24/06 20:54
185622-023	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/24/06 20:54
185622-023	1-Methylnaphthalene (UV)	HPLC04	1	03/24/06 20:54
185622-023	1-Methylnaphthalene (F)	HPLC04	3	03/24/06 20:54
185622-024	Naphthalene	HPLC04	1	03/24/06 21:26
185622-024	Acenaphthylene	HPLC04	1	03/24/06 21:26
185622-024	Acenaphthene	HPLC04	1	03/24/06 21:26
185622-024	Fluorene	HPLC04	1	03/24/06 21:26
185622-024	Phenanthrene	HPLC04	3	03/24/06 21:26
185622-024	Anthracene	HPLC04	3	03/24/06 21:26
185622-024	Fluoranthene	HPLC04	3	03/24/06 21:26
185622-024	Pyrene	HPLC04	3	03/24/06 21:26
185622-024	Benzo(a)anthracene	HPLC04	3	03/24/06 21:26
185622-024	Chrysene	HPLC04	3	03/24/06 21:26

REPORTING SUMMARY FOR 185622 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185622-024	Benzo(b)fluoranthene	HPLC04	3	03/24/06 21:26
185622-024	Benzo(k)fluoranthene	HPLC04	3	03/24/06 21:26
185622-024	Benzo(a)pyrene	HPLC04	3	03/24/06 21:26
185622-024	Dibenz(a,h)anthracene	HPLC04	3	03/24/06 21:26
185622-024	Benzo(g,h,i)perylene	HPLC04	3	03/24/06 21:26
185622-024	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/24/06 21:26
185622-024	1-Methylnaphthalene (UV)	HPLC04	1	03/24/06 21:26
185622-024	1-Methylnaphthalene (F)	HPLC04	3	03/24/06 21:26
185622-025	Naphthalene	HPLC04	1	03/24/06 21:57
185622-025	Acenaphthylene	HPLC04	1	03/24/06 21:57
185622-025	Acenaphthene	HPLC04	1	03/24/06 21:57
185622-025	Fluorene	HPLC04	1	03/24/06 21:57
185622-025	Phenanthrene	HPLC04	3	03/24/06 21:57
185622-025	Anthracene	HPLC04	3	03/24/06 21:57
185622-025	Fluoranthene	HPLC04	3	03/24/06 21:57
185622-025	Pyrene	HPLC04	3	03/24/06 21:57
185622-025	Benzo(a)anthracene	HPLC04	3	03/24/06 21:57
185622-025	Chrysene	HPLC04	3	03/24/06 21:57
185622-025	Benzo(b)fluoranthene	HPLC04	3	03/24/06 21:57
185622-025	Benzo(k)fluoranthene	HPLC04	3	03/24/06 21:57
185622-025	Benzo(a)pyrene	HPLC04	3	03/24/06 21:57
185622-025	Dibenz(a,h)anthracene	HPLC04	3	03/24/06 21:57
185622-025	Benzo(g,h,i)perylene	HPLC04	3	03/24/06 21:57
185622-025	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/24/06 21:57
185622-025	1-Methylnaphthalene (UV)	HPLC04	1	03/24/06 21:57
185622-025	1-Methylnaphthalene (F)	HPLC04	3	03/24/06 21:57
185622-026	Naphthalene	HPLC04	1	03/25/06 12:11
185622-026	Acenaphthylene	HPLC04	1	03/25/06 12:11
185622-026	Acenaphthene	HPLC04	1	03/25/06 12:11
185622-026	Fluorene	HPLC04	1	03/25/06 12:11
185622-026	Phenanthrene	HPLC04	3	03/25/06 12:11
185622-026	Anthracene	HPLC04	3	03/25/06 12:11
185622-026	Fluoranthene	HPLC04	3	03/25/06 12:11
185622-026	Pyrene	HPLC04	3	03/25/06 12:11
185622-026	Benzo(a)anthracene	HPLC04	3	03/25/06 12:11
185622-026	Chrysene	HPLC04	3	03/25/06 12:11
185622-026	Benzo(b)fluoranthene	HPLC04	3	03/25/06 12:11
185622-026	Benzo(k)fluoranthene	HPLC04	3	03/25/06 12:11
185622-026	Benzo(a)pyrene	HPLC04	3	03/25/06 12:11
185622-026	Dibenz(a,h)anthracene	HPLC04	3	03/25/06 12:11
185622-026	Benzo(g,h,i)perylene	HPLC04	3	03/25/06 12:11
185622-026	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/25/06 12:11
185622-026	1-Methylnaphthalene (UV)	HPLC04	1	03/25/06 12:11
185622-026	1-Methylnaphthalene (F)	HPLC04	3	03/25/06 12:11
185622-027	Naphthalene	HPLC04	1	03/24/06 22:29
185622-027	Acenaphthylene	HPLC04	1	03/24/06 22:29
185622-027	Acenaphthene	HPLC04	1	03/24/06 22:29
185622-027	Fluorene	HPLC04	1	03/24/06 22:29
185622-027	Phenanthrene	HPLC04	3	03/24/06 22:29
185622-027	Anthracene	HPLC04	3	03/24/06 22:29
185622-027	Fluoranthene	HPLC04	3	03/24/06 22:29

REPORTING SUMMARY FOR 185622 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185622-027	Pyrene	HPLC04	3	03/24/06 22:29
185622-027	Benzo(a)anthracene	HPLC04	3	03/24/06 22:29
185622-027	Chrysene	HPLC04	3	03/24/06 22:29
185622-027	Benzo(b)fluoranthene	HPLC04	3	03/24/06 22:29
185622-027	Benzo(k)fluoranthene	HPLC04	3	03/24/06 22:29
185622-027	Benzo(a)pyrene	HPLC04	3	03/24/06 22:29
185622-027	Dibenz(a,h)anthracene	HPLC04	3	03/24/06 22:29
185622-027	Benzo(g,h,i)perylene	HPLC04	3	03/24/06 22:29
185622-027	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/24/06 22:29
185622-027	1-Methylnaphthalene (UV)	HPLC04	1	03/24/06 22:29
185622-027	1-Methylnaphthalene (F)	HPLC04	3	03/24/06 22:29
185622-030	Naphthalene	HPLC04	1	03/27/06 19:23
185622-030	Acenaphthylene	HPLC04	1	03/27/06 19:23
185622-030	Acenaphthene	HPLC04	1	03/27/06 19:23
185622-030	Fluorene	HPLC04	1	03/27/06 19:23
185622-030	Phenanthrene	HPLC04	3	03/27/06 19:23
185622-030	Anthracene	HPLC04	3	03/27/06 19:23
185622-030	Fluoranthene	HPLC04	3	03/27/06 19:23
185622-030	Pyrene	HPLC04	3	03/27/06 19:23
185622-030	Benzo(a)anthracene	HPLC04	3	03/27/06 19:23
185622-030	Chrysene	HPLC04	3	03/27/06 19:23
185622-030	Benzo(b)fluoranthene	HPLC04	3	03/27/06 19:23
185622-030	Benzo(k)fluoranthene	HPLC04	3	03/27/06 19:23
185622-030	Benzo(a)pyrene	HPLC04	3	03/27/06 19:23
185622-030	Dibenz(a,h)anthracene	HPLC04	3	03/27/06 19:23
185622-030	Benzo(g,h,i)perylene	HPLC04	3	03/27/06 19:23
185622-030	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/27/06 19:23
185622-030	1-Methylnaphthalene (UV)	HPLC04	1	03/27/06 19:23
185622-030	1-Methylnaphthalene (F)	HPLC04	3	03/27/06 19:23
185622-031	Naphthalene	HPLC04	1	03/27/06 19:55
185622-031	Acenaphthylene	HPLC04	1	03/27/06 19:55
185622-031	Acenaphthene	HPLC04	1	03/27/06 19:55
185622-031	Fluorene	HPLC04	1	03/27/06 19:55
185622-031	Phenanthrene	HPLC04	3	03/27/06 19:55
185622-031	Anthracene	HPLC04	3	03/27/06 19:55
185622-031	Fluoranthene	HPLC04	3	03/27/06 19:55
185622-031	Pyrene	HPLC04	3	03/27/06 19:55
185622-031	Benzo(a)anthracene	HPLC04	3	03/27/06 19:55
185622-031	Chrysene	HPLC04	3	03/27/06 19:55
185622-031	Benzo(b)fluoranthene	HPLC04	3	03/27/06 19:55
185622-031	Benzo(k)fluoranthene	HPLC04	3	03/27/06 19:55
185622-031	Benzo(a)pyrene	HPLC04	3	03/27/06 19:55
185622-031	Dibenz(a,h)anthracene	HPLC04	3	03/27/06 19:55
185622-031	Benzo(g,h,i)perylene	HPLC04	3	03/27/06 19:55
185622-031	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/27/06 19:55
185622-031	1-Methylnaphthalene (UV)	HPLC04	1	03/27/06 19:55
185622-031	1-Methylnaphthalene (F)	HPLC04	3	03/27/06 19:55
185622-033	Naphthalene	HPLC04	1	03/28/06 17:32
185622-033	Acenaphthylene	HPLC04	1	03/28/06 17:32
185622-033	Acenaphthene	HPLC04	1	03/28/06 17:32
185622-033	Fluorene	HPLC04	1	03/28/06 17:32

REPORTING SUMMARY FOR 185622 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185622-033	Phenanthrene	HPLC04	3	03/28/06 17:32
185622-033	Anthracene	HPLC04	3	03/28/06 17:32
185622-033	Fluoranthene	HPLC04	3	03/28/06 17:32
185622-033	Pyrene	HPLC04	3	03/28/06 17:32
185622-033	Benzo(a)anthracene	HPLC04	3	03/28/06 17:32
185622-033	Chrysene	HPLC04	3	03/28/06 17:32
185622-033	Benzo(b)fluoranthene	HPLC04	3	03/28/06 17:32
185622-033	Benzo(k)fluoranthene	HPLC04	3	03/28/06 17:32
185622-033	Benzo(a)pyrene	HPLC04	3	03/28/06 17:32
185622-033	Dibenz(a,h)anthracene	HPLC04	3	03/28/06 17:32
185622-033	Benzo(g,h,i)perylene	HPLC04	3	03/28/06 17:32
185622-033	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/28/06 17:32
185622-033	1-Methylnaphthalene (UV)	HPLC04	1	03/28/06 17:32
185622-033	1-Methylnaphthalene (F)	HPLC04	3	03/28/06 17:32
185622-034	Naphthalene	HPLC04	1	03/27/06 20:58
185622-034	Acenaphthylene	HPLC04	1	03/27/06 20:58
185622-034	Acenaphthene	HPLC04	1	03/27/06 20:58
185622-034	Fluorene	HPLC04	1	03/27/06 20:58
185622-034	Phenanthrene	HPLC04	3	03/27/06 20:58
185622-034	Anthracene	HPLC04	3	03/27/06 20:58
185622-034	Fluoranthene	HPLC04	3	03/27/06 20:58
185622-034	Pyrene	HPLC04	3	03/27/06 20:58
185622-034	Benzo(a)anthracene	HPLC04	3	03/27/06 20:58
185622-034	Chrysene	HPLC04	3	03/27/06 20:58
185622-034	Benzo(b)fluoranthene	HPLC04	3	03/27/06 20:58
185622-034	Benzo(k)fluoranthene	HPLC04	3	03/27/06 20:58
185622-034	Benzo(a)pyrene	HPLC04	3	03/27/06 20:58
185622-034	Dibenz(a,h)anthracene	HPLC04	3	03/27/06 20:58
185622-034	Benzo(g,h,i)perylene	HPLC04	3	03/27/06 20:58
185622-034	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/27/06 20:58
185622-034	1-Methylnaphthalene (UV)	HPLC04	1	03/27/06 20:58
185622-034	1-Methylnaphthalene (F)	HPLC04	3	03/27/06 20:58
185622-035	Naphthalene	HPLC04	1	03/27/06 21:29
185622-035	Acenaphthylene	HPLC04	1	03/27/06 21:29
185622-035	Acenaphthene	HPLC04	1	03/27/06 21:29
185622-035	Fluorene	HPLC04	1	03/27/06 21:29
185622-035	Phenanthrene	HPLC04	3	03/27/06 21:29
185622-035	Anthracene	HPLC04	3	03/27/06 21:29
185622-035	Fluoranthene	HPLC04	3	03/27/06 21:29
185622-035	Pyrene	HPLC04	3	03/27/06 21:29
185622-035	Benzo(a)anthracene	HPLC04	3	03/27/06 21:29
185622-035	Chrysene	HPLC04	3	03/27/06 21:29
185622-035	Benzo(b)fluoranthene	HPLC04	3	03/27/06 21:29
185622-035	Benzo(k)fluoranthene	HPLC04	3	03/27/06 21:29
185622-035	Benzo(a)pyrene	HPLC04	3	03/27/06 21:29
185622-035	Dibenz(a,h)anthracene	HPLC04	3	03/27/06 21:29
185622-035	Benzo(g,h,i)perylene	HPLC04	3	03/27/06 21:29
185622-035	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/27/06 21:29
185622-035	1-Methylnaphthalene (UV)	HPLC04	1	03/27/06 21:29
185622-035	1-Methylnaphthalene (F)	HPLC04	3	03/27/06 21:29
185622-036	Naphthalene	HPLC04	1	03/27/06 22:01

REPORTING SUMMARY FOR 185622 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185622-036	Acenaphthylene	HPLC04	1	03/27/06 22:01
185622-036	Acenaphthene	HPLC04	1	03/27/06 22:01
185622-036	Fluorene	HPLC04	1	03/27/06 22:01
185622-036	Phenanthrene	HPLC04	3	03/27/06 22:01
185622-036	Anthracene	HPLC04	3	03/27/06 22:01
185622-036	Fluoranthene	HPLC04	3	03/27/06 22:01
185622-036	Pyrene	HPLC04	3	03/27/06 22:01
185622-036	Benzo(a)anthracene	HPLC04	3	03/27/06 22:01
185622-036	Chrysene	HPLC04	3	03/27/06 22:01
185622-036	Benzo(b)fluoranthene	HPLC04	3	03/27/06 22:01
185622-036	Benzo(k)fluoranthene	HPLC04	3	03/27/06 22:01
185622-036	Benzo(a)pyrene	HPLC04	3	03/27/06 22:01
185622-036	Dibenz(a,h)anthracene	HPLC04	3	03/27/06 22:01
185622-036	Benzo(g,h,i)perylene	HPLC04	3	03/27/06 22:01
185622-036	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/27/06 22:01
185622-036	1-Methylnaphthalene (UV)	HPLC04	1	03/27/06 22:01
185622-036	1-Methylnaphthalene (F)	HPLC04	3	03/27/06 22:01
185622-037	Naphthalene	HPLC04	1	03/27/06 22:33
185622-037	Acenaphthylene	HPLC04	1	03/27/06 22:33
185622-037	Acenaphthene	HPLC04	1	03/27/06 22:33
185622-037	Fluorene	HPLC04	1	03/27/06 22:33
185622-037	Phenanthrene	HPLC04	3	03/27/06 22:33
185622-037	Anthracene	HPLC04	3	03/27/06 22:33
185622-037	Fluoranthene	HPLC04	3	03/27/06 22:33
185622-037	Pyrene	HPLC04	3	03/27/06 22:33
185622-037	Benzo(a)anthracene	HPLC04	3	03/27/06 22:33
185622-037	Chrysene	HPLC04	3	03/27/06 22:33
185622-037	Benzo(b)fluoranthene	HPLC04	3	03/27/06 22:33
185622-037	Benzo(k)fluoranthene	HPLC04	3	03/27/06 22:33
185622-037	Benzo(a)pyrene	HPLC04	3	03/27/06 22:33
185622-037	Dibenz(a,h)anthracene	HPLC04	3	03/27/06 22:33
185622-037	Benzo(g,h,i)perylene	HPLC04	3	03/27/06 22:33
185622-037	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/27/06 22:33
185622-037	1-Methylnaphthalene (UV)	HPLC04	1	03/27/06 22:33
185622-037	1-Methylnaphthalene (F)	HPLC04	3	03/27/06 22:33
QC332575	Naphthalene	HPLC04	1	03/23/06 18:13
QC332575	Acenaphthylene	HPLC04	1	03/23/06 18:13
QC332575	Acenaphthene	HPLC04	1	03/23/06 18:13
QC332575	Fluorene	HPLC04	1	03/23/06 18:13
QC332575	Phenanthrene	HPLC04	3	03/23/06 18:13
QC332575	Anthracene	HPLC04	3	03/23/06 18:13
QC332575	Fluoranthene	HPLC04	3	03/23/06 18:13
QC332575	Pyrene	HPLC04	3	03/23/06 18:13
QC332575	Benzo(a)anthracene	HPLC04	3	03/23/06 18:13
QC332575	Chrysene	HPLC04	3	03/23/06 18:13
QC332575	Benzo(b)fluoranthene	HPLC04	3	03/23/06 18:13
QC332575	Benzo(k)fluoranthene	HPLC04	3	03/23/06 18:13
QC332575	Benzo(a)pyrene	HPLC04	3	03/23/06 18:13
QC332575	Dibenz(a,h)anthracene	HPLC04	3	03/23/06 18:13
QC332575	Benzo(g,h,i)perylene	HPLC04	3	03/23/06 18:13
QC332575	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/23/06 18:13
QC332575	1-Methylnaphthalene (UV)	HPLC04	1	03/23/06 18:13

REPORTING SUMMARY FOR 185622 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC332575	1-Methylnaphthalene (F)	HPLC04	3	03/23/06 18:13
QC332576	Naphthalene	HPLC04	1	03/23/06 17:10
QC332576	Fluorene	HPLC04	1	03/23/06 17:10
QC332576	Pyrene	HPLC04	3	03/23/06 17:10
QC332576	Benzo(a)pyrene	HPLC04	3	03/23/06 17:10
QC332576	1-Methylnaphthalene (UV)	HPLC04	1	03/23/06 17:10
QC332576	1-Methylnaphthalene (F)	HPLC04	3	03/23/06 17:10
QC332577	Naphthalene	HPLC04	1	03/23/06 17:41
QC332577	Fluorene	HPLC04	1	03/23/06 17:41
QC332577	Pyrene	HPLC04	3	03/23/06 17:41
QC332577	Benzo(a)pyrene	HPLC04	3	03/23/06 17:41
QC332577	1-Methylnaphthalene (UV)	HPLC04	1	03/23/06 17:41
QC332577	1-Methylnaphthalene (F)	HPLC04	3	03/23/06 17:41
QC332808	Naphthalene	HPLC04	1	03/24/06 19:19
QC332808	Acenaphthylene	HPLC04	1	03/24/06 19:19
QC332808	Acenaphthene	HPLC04	1	03/24/06 19:19
QC332808	Fluorene	HPLC04	1	03/24/06 19:19
QC332808	Phenanthrene	HPLC04	3	03/24/06 19:19
QC332808	Anthracene	HPLC04	3	03/24/06 19:19
QC332808	Fluoranthene	HPLC04	3	03/24/06 19:19
QC332808	Pyrene	HPLC04	3	03/24/06 19:19
QC332808	Benzo(a)anthracene	HPLC04	3	03/24/06 19:19
QC332808	Chrysene	HPLC04	3	03/24/06 19:19
QC332808	Benzo(b)fluoranthene	HPLC04	3	03/24/06 19:19
QC332808	Benzo(k)fluoranthene	HPLC04	3	03/24/06 19:19
QC332808	Benzo(a)pyrene	HPLC04	3	03/24/06 19:19
QC332808	Dibenz(a,h)anthracene	HPLC04	3	03/24/06 19:19
QC332808	Benzo(g,h,i)perylene	HPLC04	3	03/24/06 19:19
QC332808	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/24/06 19:19
QC332808	1-Methylnaphthalene (UV)	HPLC04	1	03/24/06 19:19
QC332808	1-Methylnaphthalene (F)	HPLC04	3	03/24/06 19:19
QC332809	Naphthalene	HPLC04	1	03/24/06 18:16
QC332809	Fluorene	HPLC04	1	03/24/06 18:16
QC332809	Pyrene	HPLC04	3	03/24/06 18:16
QC332809	Benzo(a)pyrene	HPLC04	3	03/24/06 18:16
QC332809	1-Methylnaphthalene (UV)	HPLC04	1	03/24/06 18:16
QC332809	1-Methylnaphthalene (F)	HPLC04	3	03/24/06 18:16
QC332810	Naphthalene	HPLC04	1	03/24/06 18:48
QC332810	Fluorene	HPLC04	1	03/24/06 18:48
QC332810	Pyrene	HPLC04	3	03/24/06 18:48
QC332810	Benzo(a)pyrene	HPLC04	3	03/24/06 18:48
QC332810	1-Methylnaphthalene (UV)	HPLC04	1	03/24/06 18:48
QC332810	1-Methylnaphthalene (F)	HPLC04	3	03/24/06 18:48
QC332984	Naphthalene	HPLC04	1	03/27/06 18:51
QC332984	Acenaphthylene	HPLC04	1	03/27/06 18:51
QC332984	Acenaphthene	HPLC04	1	03/27/06 18:51
QC332984	Fluorene	HPLC04	1	03/27/06 18:51
QC332984	Phenanthrene	HPLC04	3	03/27/06 18:51

REPORTING SUMMARY FOR 185622 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC332984	Anthracene	HPLC04	3	03/27/06 18:51
QC332984	Fluoranthene	HPLC04	3	03/27/06 18:51
QC332984	Pyrene	HPLC04	3	03/27/06 18:51
QC332984	Benzo(a)anthracene	HPLC04	3	03/27/06 18:51
QC332984	Chrysene	HPLC04	3	03/27/06 18:51
QC332984	Benzo(b)fluoranthene	HPLC04	3	03/27/06 18:51
QC332984	Benzo(k)fluoranthene	HPLC04	3	03/27/06 18:51
QC332984	Benzo(a)pyrene	HPLC04	3	03/27/06 18:51
QC332984	Dibenz(a,h)anthracene	HPLC04	3	03/27/06 18:51
QC332984	Benzo(g,h,i)perylene	HPLC04	3	03/27/06 18:51
QC332984	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/27/06 18:51
QC332984	1-Methylnaphthalene (UV)	HPLC04	1	03/27/06 18:51
QC332984	1-Methylnaphthalene (F)	HPLC04	3	03/27/06 18:51
QC332985	Naphthalene	HPLC04	1	03/27/06 17:48
QC332985	Fluorene	HPLC04	1	03/27/06 17:48
QC332985	Pyrene	HPLC04	3	03/27/06 17:48
QC332985	Benzo(a)pyrene	HPLC04	3	03/27/06 17:48
QC332985	1-Methylnaphthalene (UV)	HPLC04	1	03/27/06 17:48
QC332985	1-Methylnaphthalene (F)	HPLC04	3	03/27/06 17:48
QC332986	Naphthalene	HPLC04	1	03/27/06 18:20
QC332986	Fluorene	HPLC04	1	03/27/06 18:20
QC332986	Pyrene	HPLC04	3	03/27/06 18:20
QC332986	Benzo(a)pyrene	HPLC04	3	03/27/06 18:20
QC332986	1-Methylnaphthalene (UV)	HPLC04	1	03/27/06 18:20
QC332986	1-Methylnaphthalene (F)	HPLC04	3	03/27/06 18:20

Curtis & Tompkins Laboratories Sample Preparation Summary 23-MAR-2006 14:07

Batch Number : 111569
Date Extracted: 22-MAR-2006
Extracted by : Matthew Josh McManus
Prep Method : 3520C

Analysis : 8310
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2841N
Spike #2 ID : S2884A
Spike #3 ID :
SOP Version : 8310w_rv6

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185590-011		Arcadis G&M	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185590-012		Arcadis G&M	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185590-013		Arcadis G&M	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185590-014		Arcadis G&M	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185590-015		Arcadis G&M	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185590-016		Arcadis G&M	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185590-017		Arcadis G&M	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185590-018		Arcadis G&M	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185590-019		Arcadis G&M	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185590-020		Arcadis G&M	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185590-021		Arcadis G&M	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185590-022		Arcadis G&M	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185590-023		Arcadis G&M	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185590-024		Arcadis G&M	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185622-003		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185622-004		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185622-005		Treadwell & Rollo	Water	1050	mL	2	0.001905	1	6	.1	0		8310		
185622-006		Treadwell & Rollo	Water	1040	mL	2	0.001923	1	6	.1	0		8310		
185622-020		Treadwell & Rollo	Water	1030	mL	2	0.001942	1	6	.1	0		8310		
QC332575	BLANK		Water	1000	mL	2	0.002000	1		.1	0		8310		
QC332576	BS		Water	1000	mL	2	0.002000	1		.1	1		8310		
QC332577	BSD		Water	1000	mL	2	0.002000	1		.1	1		8310		

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Prep Chemist: _____ Reviewed By: _____ Date: 3/23/06

Relinquished By: _____ Received By: _____ Date: 23MAR2006

Curtis & Tompkins, Ltd

8310 WATER PREP LOG

BK2190

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LIMS Batch No: 11569
LIMS Analysis: 8310
Extracted by: MJM
Date Extracted: 22 Mar 06

Extraction Method:
- ☐ EPA 3510c sep. funnel
- ☒ EPA 3520c cont. L/L
- ☐ _____

Cleanup Method (if needed):
- ☐ EPA 3640a GPC
- ☐ EPA 3630c Silica Gel

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185590-011 E	1060	6	20		★
012 D					
013					
14 E					
15					
16					
17					
18 B					△
19 E					
20 K					
21 E					
22					
23					
24 K					
185622-003 H					
04					
05	1050				
06	1040				
20 L	1030				★
MB QC332575	1006	NA			
BS 76					
BSD 77					

3/23/06

Mfg & Lot# / LIMS # / Time	Date/ Initials
S2841N ★, O △	3/22/06 MJM
S2884A	
EM46060	
1351	
0755	MJM 3/23/06
N/A	SFL 3/23/06
EM451185372	
EM45216	
✓	
N/A	
WHATMAN K435	

0.1 mL of surrogate solution was added to all samples
1.0 mL of matrix spiking solution was added to all spikes
☒ Samples continuously extracted with about 450 mL of CH_2Cl_2
Extraction Start Time: 1351
Extraction End Time: 0755
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2
Extracts filtered through baked, CH2Cl2-rinsed ~~powdered~~ GRANULAR Na2SO4
Exchanged 2x with Acetonitrile
Concentrated: ☑ to volumes as noted above ☐ to clean-up volume
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Silica Gel
Extracts filtered with 0.45 um PTFE syringe filter

MJM 3/22/06
Extraction Chemist **Date**

Contined from Page ___
Continued on Page ___

3/23/06
Reviewed by **Date**

Curtis & Tompkins Laboratories **Sample Preparation Summary** **24-MAR-2006 13:37**

Batch Number : 111623
Date Extracted: 23-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : 8310
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2841U
Spike #2 ID : S2884B
Spike #3 ID :
SOP Version : 8310w_rv6

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185622-021		Treadwell & Rollo	Water	1040	mL	2	0.001923	1	7	.1	0		8310		
185622-022		Treadwell & Rollo	Water	1040	mL	2	0.001923	1	7	.1	0		8310		
185622-023		Treadwell & Rollo	Water	1030	mL	2	0.001942	1	7	.1	0		8310		
185622-024		Treadwell & Rollo	Water	1020	mL	2	0.001961	1	7	.1	0		8310		
185622-025		Treadwell & Rollo	Water	1030	mL	2	0.001942	1	7	.1	0		8310		
185622-026		Treadwell & Rollo	Water	1040	mL	2	0.001923	1	7	.1	0		8310		
185622-027		Treadwell & Rollo	Water	1040	mL	2	0.001923	1	7	.1	0		8310		
185629-001		Arcadis G&M	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185629-002		Arcadis G&M	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185629-005		Arcadis G&M	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185629-006		Arcadis G&M	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185629-007		Arcadis G&M	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185629-008		Arcadis G&M	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185629-009		Arcadis G&M	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185629-010		Arcadis G&M	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185629-011		Arcadis G&M	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185629-012		Arcadis G&M	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185629-013		Arcadis G&M	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185629-014		Arcadis G&M	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
185629-015		Arcadis G&M	Water	1050	mL	2	0.001905	1	6	.1	0		8310		
QC332808	BLANK		Water	1000	mL	2	0.002000	1		.1	0		8310		
QC332809	BS		Water	1000	mL	2	0.002000	1		.1	1		8310		
QC332810	BSD		Water	1000	mL	2	0.002000	1		.1	1		8310		

Prep Chemist: SK SR JM Reviewed By: [signature] Date: 3/24/06

Relinquished By: [signature] Received By: [signature] Date: 24MAR2006

Curtis & Tompkins, Ltd

8310 WATER PREP LOG

BK2190

LIMS Batch No: 111623
LIMS Analysis: 8310
Extracted by: JDM
Date Extracted: 23 Mar 06

Extraction Method:
☐ EPA 3510c sep. funnel
☒ EPA 3520c cont. L/L
☐ _____

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Cleanup Method (if needed):
☐ EPA 3640a GPC
☐ EPA 3630c Silica Gel

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185622-021 K	1040	7	2.0		
22 K	1040				
23 F	1030				
24 L	1020				
25 I	1030				
26 I	1040				
27 K	1040				
185629-001 D	1060	6			
02					
05				*	
06					
07					
08					
09					
10					
11					
12					
13					
14					
15	1050				
MB QC 332808	1000	NA			
BS 09					
BSD 10					
					BHD 3/24/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.1 mL of surrogate solution was added to all samples	S2841 U / * P	JDM 3/23/06
1.0 mL of matrix spiking solution was added to all spikes	S2884B	
☒ Samples continuously extracted with about 450 mL of CH_2Cl_2	EM46060	
Extraction Start Time:	1230	
Extraction End Time:	0725	DLM 3/24/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	BHD 3/24/06
Extracts filtered through baked, CH2Cl2-rinsed powdered Na2SO4		
Exchanged 2x with Acetonitrile	EM45216	
Concentrated: ☒ to volumes as noted above ☐ to clean-up volume		
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Silica Gel	NA	
Extracts filtered with 0.45 um PTFE syringe filter	Whatman L227	

Jessie Nee 3/23/06
Extraction Chemist | Date

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Contined from Page _____
Continued on Page _____

3/24/06
Reviewed by | Date

Curtis & Tompkins Laboratories Sample Preparation Summary 27-MAR-2006 14:15

Batch Number : 111665
Date Extracted: 24-MAR-2006
Extracted by : Sandra Felipe Luna
Prep Method : 3520C

Analysis : 8310
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2841V
Spike #2 ID : S2884A
Spike #3 ID :
SOP Version : 8310w_rv6

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185622-030		Treadwell & Rollo	Water	1050	mL	2	0.001905	1	7	.1	0		8310		
185622-031		Treadwell & Rollo	Water	1050	mL	2	0.001905	1	7	.1	0		8310		
185622-033		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	7	.1	0		8310		
185622-034		Treadwell & Rollo	Water	1050	mL	2	0.001905	1	7	.1	0		8310		
185622-035		Treadwell & Rollo	Water	1010	mL	2	0.001980	1	6	.1	0		8310		
185622-036		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	7	.1	0		8310		
185622-037		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	7	.1	0		8310		
185638-001		Treadwell & Rollo	Water	900	mL	2	0.002222	1	7	.1	0		8310		
185638-002		Treadwell & Rollo	Water	1050	mL	2	0.001905	1	7	.1	0		8310		
185638-003		Treadwell & Rollo	Water	1050	mL	2	0.001905	1	7	.1	0		8310		
185638-004		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	7	.1	0		8310		
185638-005		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	7	.1	0		8310		
185638-006		Treadwell & Rollo	Water	1020	mL	2	0.001961	1	7	.1	0		8310		
185638-007		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	7	.1	0		8310		
QC332984	BLANK		Water	1000	mL	2	0.002000	1		.1	0		8310		
QC332985	BS		Water	1000	mL	2	0.002000	1		.1	1		8310		
QC332986	BSD		Water	1000	mL	2	0.002000	1		.1	1		8310		

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Prep Chemist: _____ Reviewed By: _____ Date: 3/27/06

Relinquished By: _____ Received By: _____ Date: 27MAR2006

Curtis & Tompkins, Ltd

8310 WATER PREP LOG

BK2190

LIMS Batch No: 111665
LIMS Analysis: 8310
Extracted by: SFL
Date Extracted: 3/24/06

Extraction Method:
☐ EPA 3510c sep. funnel
☑ EPA 3520c cont. L/L
☐

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Cleanup Method (if needed):
☐ EPA 3640a GPC
☐ EPA 3630c Silica Gel

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
186022-030 I	1050	7	2.0		
-031 G	↓				
-032 K	1060				☆
-034 H	1050	↓			*
-035 I	1010	6			
-036 I	1060	7			
-037 M	1060				
185638-001 D	900				
-002	1050				
-003	1050				
-004	1060				
-005 G	1060				
-006 D	1070				
-007 G	1060	↓			
MB QC 332984	1000	N/A			☆
BS 85	↓				↓
BSD 86	↓	↓	↓		

XN 3/27/06

* lady receives lost ~5 mls of total volume

	Mfg & Lot#/ LIMS # / Time	Date/ Initials
0.1 mL of surrogate solution was added to all samples	S2841 ✓ / IN*	SFL 3/24/
1.0 mL of matrix spiking solution was added to all spikes	S2884A	↓
☑ Samples continuously extracted with about 450 mL of CH_2Cl_2	EM460160	
Extraction Start Time:	1317	
Extraction End Time:	1020	3/25/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	
Extracts filtered through baked, CH2Cl2-rinsed ~~powdered~~ granular Na2SO4	EM451853 2	
Exchanged 2x with Acetonitrile	EM45216	
Concentrated: ☑ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Silica Gel	NA	
Extracts filtered with 0.45 um PTFE syringe filter	WHATMAN K435	↓

SFL 3/24/06
Extraction Chemist Date

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Contined from Page
Continued on Page

3/27/06
Reviewed by Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8310 Water 3520C
As of 04/13/06

Analyte	Units	HPLC02 1	HPLC02 2	HPLC02 3	HPLC04 1	HPLC04 2	HPLC04 3
Naphthalene	ug/L	0.16		0.069	0.097		0.10
Acenaphthylene	ug/L	0.37	0.29		0.24	0.16	
2-Methylnaphthalene	ug/L				0.072		0.10
Acenaphthene	ug/L	0.36		0.098	0.33		0.085
Fluorene	ug/L	0.051		0.054	0.028		0.017
Phenanthrene	ug/L	0.030		0.0086	0.0082		0.0078
Anthracene	ug/L	0.021		0.0077	0.024		0.023
Fluoranthene	ug/L	0.13		0.011	0.042		0.013
Pyrene	ug/L	0.066		0.0048	0.036		0.010
Benzo(a)anthracene	ug/L	0.044		0.0046	0.022		0.013
Chrysene	ug/L	0.036		0.0059	0.021		0.0096
Benzo(b)fluoranthene	ug/L	0.032		0.0081	0.015		0.013
Benzo(k)fluoranthene	ug/L	0.037		0.0044	0.013		0.0080
Benzo(a)pyrene	ug/L	0.055		0.0045	0.017		0.025
Dibenz(a,h)anthracene	ug/L	0.12		0.026	0.037		0.025
Benzo(g,h,i)perylene	ug/L	0.066		0.014	0.047		0.017
Indeno(1,2,3-cd)pyrene	ug/L	0.065		0.011	0.013		0.0096
1-Methylnaphthalene (UV)	ug/L	1.2	1.9		9.0	9.1	
1-Methylnaphthalene (F)	ug/L			0.72			9.8

METALS

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF08GW02B	Batch#:	111807
Lab ID:	185622-003	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/03/06	EPA 6010B
Antimony	ND	1.0	04/04/06	EPA 6020
Arsenic	ND	5.0	04/03/06	EPA 6010B
Barium	41	10	04/03/06	EPA 6010B
Beryllium	ND	2.0	04/03/06	EPA 6010B
Cadmium	ND	1.0	04/04/06	EPA 6020
Calcium	22,000	500	04/03/06	EPA 6010B
Chromium	33	10	04/03/06	EPA 6010B
Cobalt	ND	10	04/03/06	EPA 6010B
Copper	ND	1.0	04/04/06	EPA 6020
Iron	ND	100	04/03/06	EPA 6010B
Lead	ND	3.0	04/03/06	EPA 6010B
Magnesium	30,000	500	04/03/06	EPA 6010B
Manganese	ND	10	04/03/06	EPA 6010B
Nickel	ND	20	04/03/06	EPA 6010B
Potassium	890	500	04/03/06	EPA 6010B
Selenium	ND	5.0	04/03/06	EPA 6010B
Silver	ND	1.0	04/04/06	EPA 6020
Sodium	32,000	500	04/03/06	EPA 6010B
Thallium	ND	1.0	04/04/06	EPA 6020
Vanadium	ND	10	04/04/06	EPA 6020
Zinc	ND	20	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF08GW03	Batch#:	111807
Lab ID:	185622-004	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/03/06	EPA 6010B
Antimony	ND	1.0	04/04/06	EPA 6020
Arsenic	ND	5.0	04/03/06	EPA 6010B
Barium	140	10	04/03/06	EPA 6010B
Beryllium	ND	2.0	04/03/06	EPA 6010B
Cadmium	ND	1.0	04/04/06	EPA 6020
Calcium	20,000	500	04/03/06	EPA 6010B
Chromium	23	10	04/03/06	EPA 6010B
Cobalt	ND	10	04/03/06	EPA 6010B
Copper	ND	1.0	04/04/06	EPA 6020
Iron	ND	100	04/03/06	EPA 6010B
Lead	ND	3.0	04/03/06	EPA 6010B
Magnesium	52,000	500	04/03/06	EPA 6010B
Manganese	ND	10	04/03/06	EPA 6010B
Nickel	ND	20	04/03/06	EPA 6010B
Potassium	610	500	04/03/06	EPA 6010B
Selenium	ND	5.0	04/03/06	EPA 6010B
Silver	ND	1.0	04/04/06	EPA 6020
Sodium	59,000	500	04/03/06	EPA 6010B
Thallium	ND	1.0	04/04/06	EPA 6020
Vanadium	ND	10	04/04/06	EPA 6020
Zinc	ND	20	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF08GW04	Batch#:	111807
Lab ID:	185622-005	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/03/06	EPA 6010B
Antimony	ND	1.0	04/04/06	EPA 6020
Arsenic	ND	5.0	04/03/06	EPA 6010B
Barium	16	10	04/03/06	EPA 6010B
Beryllium	ND	2.0	04/03/06	EPA 6010B
Cadmium	ND	1.0	04/04/06	EPA 6020
Calcium	32,000	500	04/03/06	EPA 6010B
Chromium	ND	10	04/03/06	EPA 6010B
Cobalt	ND	10	04/03/06	EPA 6010B
Copper	ND	1.0	04/04/06	EPA 6020
Iron	ND	100	04/03/06	EPA 6010B
Lead	ND	3.0	04/03/06	EPA 6010B
Magnesium	5,300	500	04/03/06	EPA 6010B
Manganese	ND	10	04/03/06	EPA 6010B
Nickel	ND	20	04/03/06	EPA 6010B
Potassium	2,700	500	04/03/06	EPA 6010B
Selenium	ND	5.0	04/03/06	EPA 6010B
Silver	ND	1.0	04/04/06	EPA 6020
Sodium	15,000	500	04/03/06	EPA 6010B
Thallium	ND	1.0	04/04/06	EPA 6020
Vanadium	ND	10	04/04/06	EPA 6020
Zinc	ND	20	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	DUP0316064A	Batch#:	111807
Lab ID:	185622-006	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/03/06	EPA 6010B
Antimony	ND	1.0	04/04/06	EPA 6020
Arsenic	ND	5.0	04/03/06	EPA 6010B
Barium	17	10	04/03/06	EPA 6010B
Beryllium	ND	2.0	04/03/06	EPA 6010B
Cadmium	ND	1.0	04/04/06	EPA 6020
Calcium	32,000	500	04/03/06	EPA 6010B
Chromium	ND	10	04/03/06	EPA 6010B
Cobalt	ND	10	04/03/06	EPA 6010B
Copper	ND	1.0	04/04/06	EPA 6020
Iron	ND	100	04/03/06	EPA 6010B
Lead	ND	3.0	04/03/06	EPA 6010B
Magnesium	5,300	500	04/03/06	EPA 6010B
Manganese	ND	10	04/03/06	EPA 6010B
Nickel	ND	20	04/03/06	EPA 6010B
Potassium	2,700	500	04/03/06	EPA 6010B
Selenium	ND	5.0	04/03/06	EPA 6010B
Silver	ND	1.0	04/04/06	EPA 6020
Sodium	16,000	500	04/03/06	EPA 6010B
Thallium	ND	1.0	04/04/06	EPA 6020
Vanadium	ND	10	04/04/06	EPA 6020
Zinc	ND	20	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF08GW02BRB03	Batch#:	111807
Lab ID:	185622-007	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/03/06	EPA 6010B
Antimony	ND	1.0	04/04/06	EPA 6020
Arsenic	ND	5.0	04/03/06	EPA 6010B
Barium	ND	10	04/03/06	EPA 6010B
Beryllium	ND	2.0	04/03/06	EPA 6010B
Cadmium	ND	1.0	04/04/06	EPA 6020
Calcium	ND	500	04/03/06	EPA 6010B
Chromium	ND	10	04/03/06	EPA 6010B
Cobalt	ND	10	04/03/06	EPA 6010B
Copper	ND	1.0	04/04/06	EPA 6020
Iron	ND	100	04/03/06	EPA 6010B
Lead	ND	3.0	04/03/06	EPA 6010B
Magnesium	ND	500	04/03/06	EPA 6010B
Manganese	ND	10	04/03/06	EPA 6010B
Nickel	ND	20	04/03/06	EPA 6010B
Potassium	ND	500	04/03/06	EPA 6010B
Selenium	ND	5.0	04/03/06	EPA 6010B
Silver	ND	1.0	04/04/06	EPA 6020
Sodium	1,300	500	04/03/06	EPA 6010B
Thallium	ND	1.0	04/04/06	EPA 6020
Vanadium	ND	10	04/04/06	EPA 6020
Zinc	ND	20	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF01GW02	Batch#:	111807
Lab ID:	185622-008	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/03/06	EPA 6010B
Antimony	ND	1.0	04/04/06	EPA 6020
Arsenic	ND	5.0	04/03/06	EPA 6010B
Barium	62	10	04/03/06	EPA 6010B
Beryllium	ND	2.0	04/03/06	EPA 6010B
Cadmium	ND	1.0	04/04/06	EPA 6020
Calcium	36,000	500	04/03/06	EPA 6010B
Chromium	17	10	04/03/06	EPA 6010B
Cobalt	ND	10	04/03/06	EPA 6010B
Copper	ND	1.0	04/04/06	EPA 6020
Iron	ND	100	04/03/06	EPA 6010B
Lead	ND	3.0	04/03/06	EPA 6010B
Magnesium	70,000	500	04/03/06	EPA 6010B
Manganese	ND	10	04/03/06	EPA 6010B
Nickel	ND	20	04/03/06	EPA 6010B
Potassium	4,000	500	04/03/06	EPA 6010B
Selenium	ND	5.0	04/03/06	EPA 6010B
Silver	ND	1.0	04/04/06	EPA 6020
Sodium	47,000	500	04/03/06	EPA 6010B
Thallium	ND	1.0	04/04/06	EPA 6020
Vanadium	ND	10	04/04/06	EPA 6020
Zinc	ND	20	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	231GW26	Batch#:	111807
Lab ID:	185622-009	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/03/06	EPA 6010B
Arsenic	ND	5.0	04/03/06	EPA 6010B
Cadmium	ND	1.0	04/04/06	EPA 6020
Calcium	27,000	500	04/03/06	EPA 6010B
Chromium	ND	10	04/03/06	EPA 6010B
Copper	ND	1.0	04/04/06	EPA 6020
Iron	ND	100	04/03/06	EPA 6010B
Lead	ND	3.0	04/03/06	EPA 6010B
Magnesium	43,000	500	04/03/06	EPA 6010B
Manganese	ND	10	04/03/06	EPA 6010B
Nickel	ND	20	04/03/06	EPA 6010B
Potassium	1,600	500	04/03/06	EPA 6010B
Sodium	60,000	500	04/03/06	EPA 6010B
Zinc	ND	20	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	231GW24	Batch#:	111807
Lab ID:	185622-010	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/03/06	EPA 6010B
Arsenic	ND	5.0	04/03/06	EPA 6010B
Cadmium	ND	1.0	04/04/06	EPA 6020
Calcium	25,000	500	04/03/06	EPA 6010B
Chromium	ND	10	04/03/06	EPA 6010B
Copper	ND	1.0	04/04/06	EPA 6020
Iron	810	100	04/03/06	EPA 6010B
Lead	ND	3.0	04/03/06	EPA 6010B
Magnesium	43,000	500	04/03/06	EPA 6010B
Manganese	170	10	04/03/06	EPA 6010B
Nickel	ND	20	04/03/06	EPA 6010B
Potassium	3,400	500	04/03/06	EPA 6010B
Sodium	44,000	500	04/03/06	EPA 6010B
Zinc	ND	20	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	231GW19	Batch#:	111807
Lab ID:	185622-011	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/03/06	EPA 6010B
Arsenic	9.2	5.0	04/03/06	EPA 6010B
Cadmium	ND	1.0	04/04/06	EPA 6020
Calcium	38,000	500	04/03/06	EPA 6010B
Chromium	ND	10	04/03/06	EPA 6010B
Copper	ND	1.0	04/04/06	EPA 6020
Iron	12,000	100	04/03/06	EPA 6010B
Lead	ND	3.0	04/03/06	EPA 6010B
Magnesium	29,000	500	04/03/06	EPA 6010B
Manganese	750	10	04/03/06	EPA 6010B
Nickel	ND	20	04/03/06	EPA 6010B
Potassium	5,200	500	04/03/06	EPA 6010B
Sodium	50,000	500	04/03/06	EPA 6010B
Zinc	ND	20	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	231GW29	Batch#:	111807
Lab ID:	185622-012	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/03/06	EPA 6010B
Arsenic	ND	5.0	04/03/06	EPA 6010B
Cadmium	ND	1.0	04/04/06	EPA 6020
Calcium	29,000	500	04/03/06	EPA 6010B
Chromium	ND	10	04/03/06	EPA 6010B
Copper	ND	1.0	04/04/06	EPA 6020
Iron	ND	100	04/03/06	EPA 6010B
Lead	ND	3.0	04/03/06	EPA 6010B
Magnesium	58,000	500	04/03/06	EPA 6010B
Manganese	130	10	04/03/06	EPA 6010B
Nickel	ND	20	04/03/06	EPA 6010B
Potassium	4,400	500	04/03/06	EPA 6010B
Sodium	51,000	500	04/03/06	EPA 6010B
Zinc	ND	20	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	BB3PZ101	Batch#:	111807
Lab ID:	185622-013	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/03/06	EPA 6010B
Antimony	ND	1.0	04/04/06	EPA 6020
Arsenic	ND	5.0	04/03/06	EPA 6010B
Barium	43	10	04/03/06	EPA 6010B
Beryllium	ND	2.0	04/03/06	EPA 6010B
Cadmium	ND	1.0	04/04/06	EPA 6020
Calcium	26,000	500	04/03/06	EPA 6010B
Chromium	ND	10	04/03/06	EPA 6010B
Cobalt	ND	10	04/03/06	EPA 6010B
Copper	1.8	1.0	04/04/06	EPA 6020
Iron	ND	100	04/03/06	EPA 6010B
Lead	ND	3.0	04/03/06	EPA 6010B
Magnesium	41,000	500	04/03/06	EPA 6010B
Manganese	ND	10	04/03/06	EPA 6010B
Nickel	ND	20	04/03/06	EPA 6010B
Potassium	2,400	500	04/03/06	EPA 6010B
Selenium	ND	5.0	04/03/06	EPA 6010B
Silver	ND	1.0	04/04/06	EPA 6020
Sodium	65,000	500	04/03/06	EPA 6010B
Thallium	ND	1.0	04/04/06	EPA 6020
Vanadium	ND	10	04/04/06	EPA 6020
Zinc	ND	20	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	BB3GW100	Batch#:	111807
Lab ID:	185622-014	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	ND	100	1.000	04/03/06	EPA 6010B
Antimony	ND	1.0	1.000	04/04/06	EPA 6020
Arsenic	ND	5.0	1.000	04/03/06	EPA 6010B
Barium	89	10	1.000	04/03/06	EPA 6010B
Beryllium	ND	2.0	1.000	04/03/06	EPA 6010B
Cadmium	ND	1.0	1.000	04/04/06	EPA 6020
Calcium	24,000	500	1.000	04/03/06	EPA 6010B
Chromium	ND	10	1.000	04/03/06	EPA 6010B
Cobalt	ND	10	1.000	04/03/06	EPA 6010B
Copper	ND	1.0	1.000	04/04/06	EPA 6020
Iron	ND	100	1.000	04/03/06	EPA 6010B
Lead	ND	3.0	1.000	04/03/06	EPA 6010B
Magnesium	81,000	500	1.000	04/03/06	EPA 6010B
Manganese	ND	10	1.000	04/03/06	EPA 6010B
Nickel	ND	20	1.000	04/03/06	EPA 6010B
Potassium	700	500	1.000	04/03/06	EPA 6010B
Selenium	ND	5.0	1.000	04/03/06	EPA 6010B
Silver	ND	1.0	1.000	04/04/06	EPA 6020
Sodium	100,000	1,000	2.000	04/03/06	EPA 6010B
Thallium	ND	1.0	1.000	04/04/06	EPA 6020
Vanadium	ND	10	1.000	04/04/06	EPA 6020
Zinc	ND	20	1.000	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	207GW03	Batch#:	111807
Lab ID:	185622-015	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	ND	100	1.000	04/03/06	EPA 6010B
Arsenic	ND	5.0	1.000	04/03/06	EPA 6010B
Cadmium	ND	1.0	1.000	04/04/06	EPA 6020
Calcium	20,000	500	1.000	04/03/06	EPA 6010B
Chromium	ND	10	1.000	04/03/06	EPA 6010B
Copper	ND	1.0	1.000	04/04/06	EPA 6020
Iron	ND	100	1.000	04/03/06	EPA 6010B
Lead	ND	3.0	1.000	04/03/06	EPA 6010B
Magnesium	35,000	500	1.000	04/03/06	EPA 6010B
Manganese	ND	10	1.000	04/03/06	EPA 6010B
Nickel	ND	20	1.000	04/03/06	EPA 6010B
Potassium	21,000	500	1.000	04/03/06	EPA 6010B
Sodium	170,000	2,500	5.000	04/03/06	EPA 6010B
Zinc	ND	20	1.000	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	1065MW10A	Batch#:	111807
Lab ID:	185622-016	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/03/06	EPA 6010B
Antimony	ND	1.0	04/04/06	EPA 6020
Arsenic	ND	5.0	04/03/06	EPA 6010B
Cadmium	ND	1.0	04/04/06	EPA 6020
Calcium	29,000	500	04/03/06	EPA 6010B
Chromium	ND	10	04/03/06	EPA 6010B
Copper	ND	1.0	04/04/06	EPA 6020
Iron	13,000	100	04/03/06	EPA 6010B
Lead	ND	3.0	04/03/06	EPA 6010B
Magnesium	35,000	500	04/03/06	EPA 6010B
Manganese	520	10	04/03/06	EPA 6010B
Nickel	ND	20	04/03/06	EPA 6010B
Potassium	1,900	500	04/03/06	EPA 6010B
Sodium	57,000	500	04/03/06	EPA 6010B
Vanadium	ND	10	04/04/06	EPA 6020
Zinc	ND	20	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF02GW01	Batch#:	111807
Lab ID:	185622-017	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/03/06	EPA 6010B
Antimony	ND	1.0	04/04/06	EPA 6020
Arsenic	ND	5.0	04/03/06	EPA 6010B
Barium	63	10	04/03/06	EPA 6010B
Beryllium	ND	2.0	04/03/06	EPA 6010B
Cadmium	ND	1.0	04/04/06	EPA 6020
Calcium	15,000	500	04/03/06	EPA 6010B
Chromium	ND	10	04/03/06	EPA 6010B
Cobalt	ND	10	04/03/06	EPA 6010B
Copper	ND	1.0	04/04/06	EPA 6020
Iron	ND	100	04/03/06	EPA 6010B
Lead	ND	3.0	04/03/06	EPA 6010B
Magnesium	55,000	500	04/03/06	EPA 6010B
Manganese	ND	10	04/03/06	EPA 6010B
Nickel	ND	20	04/03/06	EPA 6010B
Potassium	540	500	04/03/06	EPA 6010B
Selenium	ND	5.0	04/03/06	EPA 6010B
Silver	ND	1.0	04/04/06	EPA 6020
Sodium	28,000	500	04/03/06	EPA 6010B
Thallium	ND	1.0	04/04/06	EPA 6020
Vanadium	ND	10	04/04/06	EPA 6020
Zinc	ND	20	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	EPSP01	Batch#:	111808
Lab ID:	185622-018	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/03/06	EPA 6010B
Antimony	ND	1.0	04/05/06	EPA 6020
Arsenic	ND	5.0	04/03/06	EPA 6010B
Barium	75	10	04/03/06	EPA 6010B
Beryllium	ND	2.0	04/03/06	EPA 6010B
Cadmium	ND	1.0	04/05/06	EPA 6020
Calcium	13,000	500	04/03/06	EPA 6010B
Chromium	28	10	04/03/06	EPA 6010B
Cobalt	ND	10	04/03/06	EPA 6010B
Copper	1.2	1.0	04/05/06	EPA 6020
Iron	180	100	04/03/06	EPA 6010B
Lead	ND	3.0	04/03/06	EPA 6010B
Magnesium	74,000	500	04/03/06	EPA 6010B
Manganese	65	10	04/03/06	EPA 6010B
Nickel	ND	20	04/03/06	EPA 6010B
Potassium	ND	500	04/03/06	EPA 6010B
Selenium	ND	5.0	04/03/06	EPA 6010B
Silver	ND	1.0	04/05/06	EPA 6020
Sodium	27,000	500	04/03/06	EPA 6010B
Thallium	ND	1.0	04/05/06	EPA 6020
Vanadium	ND	10	04/05/06	EPA 6020
Zinc	ND	20	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	EPSP01	Batch#:	111807
Lab ID:	185622-018	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/03/06	EPA 6010B
Antimony	ND	1.0	04/04/06	EPA 6020
Arsenic	ND	5.0	04/03/06	EPA 6010B
Barium	75	10	04/03/06	EPA 6010B
Beryllium	ND	2.0	04/03/06	EPA 6010B
Cadmium	ND	1.0	04/04/06	EPA 6020
Calcium	15,000	500	04/03/06	EPA 6010B
Chromium	30	10	04/03/06	EPA 6010B
Cobalt	ND	10	04/03/06	EPA 6010B
Copper	ND	1.0	04/04/06	EPA 6020
Iron	ND	100	04/03/06	EPA 6010B
Lead	ND	3.0	04/03/06	EPA 6010B
Magnesium	87,000	500	04/03/06	EPA 6010B
Manganese	24	10	04/03/06	EPA 6010B
Nickel	ND	20	04/03/06	EPA 6010B
Potassium	ND	500	04/03/06	EPA 6010B
Selenium	ND	5.0	04/03/06	EPA 6010B
Silver	ND	1.0	04/04/06	EPA 6020
Sodium	31,000	500	04/03/06	EPA 6010B
Thallium	ND	1.0	04/04/06	EPA 6020
Vanadium	ND	10	04/04/06	EPA 6020
Zinc	ND	20	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	DAEGW101	Batch#:	111808
Lab ID:	185622-020	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06

Analyte	Result	RL	Dilu Fac	Analyzed	Analysis
Aluminum	ND	100	1.000	04/03/06	EPA 6010B
Antimony	ND	1.0	1.000	04/05/06	EPA 6020
Arsenic	ND	5.0	1.000	04/03/06	EPA 6010B
Barium	46	10	1.000	04/03/06	EPA 6010B
Beryllium	ND	2.0	1.000	04/03/06	EPA 6010B
Cadmium	ND	1.0	1.000	04/05/06	EPA 6020
Calcium	180,000	2,500	5.000	04/03/06	EPA 6010B
Chromium	ND	10	1.000	04/03/06	EPA 6010B
Cobalt	ND	10	1.000	04/03/06	EPA 6010B
Copper	1.0	1.0	1.000	04/05/06	EPA 6020
Iron	ND	100	1.000	04/03/06	EPA 6010B
Lead	ND	3.0	1.000	04/03/06	EPA 6010B
Magnesium	79,000	500	1.000	04/03/06	EPA 6010B
Manganese	310	10	1.000	04/03/06	EPA 6010B
Nickel	ND	20	1.000	04/03/06	EPA 6010B
Potassium	30,000	500	1.000	04/03/06	EPA 6010B
Selenium	ND	5.0	1.000	04/03/06	EPA 6010B
Silver	ND	1.0	1.000	04/05/06	EPA 6020
Sodium	51,000	500	1.000	04/03/06	EPA 6010B
Thallium	1.1	1.0	1.000	04/05/06	EPA 6020
Vanadium	ND	10	1.000	04/05/06	EPA 6020
Zinc	ND	20	1.000	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	DAEGW102	Batch#:	111808
Lab ID:	185622-021	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	ND	100	1.000	04/03/06	EPA 6010B
Antimony	ND	1.0	1.000	04/05/06	EPA 6020
Arsenic	ND	5.0	1.000	04/03/06	EPA 6010B
Barium	250	10	1.000	04/03/06	EPA 6010B
Beryllium	ND	2.0	1.000	04/03/06	EPA 6010B
Cadmium	ND	1.0	1.000	04/05/06	EPA 6020
Calcium	160,000	2,500	5.000	04/03/06	EPA 6010B
Chromium	ND	10	1.000	04/03/06	EPA 6010B
Cobalt	ND	10	1.000	04/03/06	EPA 6010B
Copper	ND	1.0	1.000	04/05/06	EPA 6020
Iron	ND	100	1.000	04/03/06	EPA 6010B
Lead	ND	3.0	1.000	04/03/06	EPA 6010B
Magnesium	210,000	2,500	5.000	04/03/06	EPA 6010B
Manganese	ND	10	1.000	04/03/06	EPA 6010B
Nickel	ND	20	1.000	04/03/06	EPA 6010B
Potassium	2,100	500	1.000	04/03/06	EPA 6010B
Selenium	ND	5.0	1.000	04/03/06	EPA 6010B
Silver	ND	1.0	1.000	04/05/06	EPA 6020
Sodium	120,000	2,500	5.000	04/03/06	EPA 6010B
Thallium	ND	1.0	1.000	04/05/06	EPA 6020
Vanadium	ND	10	1.000	04/05/06	EPA 6020
Zinc	ND	20	1.000	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	DAEGW104	Batch#:	111808
Lab ID:	185622-022	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/03/06	EPA 6010B
Antimony	ND	1.0	04/05/06	EPA 6020
Arsenic	ND	5.0	04/03/06	EPA 6010B
Barium	38	10	04/03/06	EPA 6010B
Beryllium	ND	2.0	04/03/06	EPA 6010B
Cadmium	ND	1.0	04/05/06	EPA 6020
Calcium	37,000	500	04/03/06	EPA 6010B
Chromium	ND	10	04/03/06	EPA 6010B
Cobalt	ND	10	04/03/06	EPA 6010B
Copper	ND	1.0	04/05/06	EPA 6020
Iron	ND	100	04/03/06	EPA 6010B
Lead	ND	3.0	04/03/06	EPA 6010B
Magnesium	41,000	500	04/03/06	EPA 6010B
Manganese	43	10	04/03/06	EPA 6010B
Nickel	ND	20	04/03/06	EPA 6010B
Potassium	960	500	04/03/06	EPA 6010B
Selenium	ND	5.0	04/03/06	EPA 6010B
Silver	ND	1.0	04/05/06	EPA 6020
Sodium	34,000	500	04/03/06	EPA 6010B
Thallium	ND	1.0	04/05/06	EPA 6020
Vanadium	ND	10	04/05/06	EPA 6020
Zinc	ND	20	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	DAEGW06	Batch#:	111808
Lab ID:	185622-023	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/03/06	EPA 6010B
Antimony	ND	1.0	04/05/06	EPA 6020
Arsenic	ND	5.0	04/03/06	EPA 6010B
Barium	51	10	04/03/06	EPA 6010B
Beryllium	ND	2.0	04/03/06	EPA 6010B
Cadmium	ND	1.0	04/05/06	EPA 6020
Calcium	30,000	500	04/03/06	EPA 6010B
Chromium	ND	10	04/03/06	EPA 6010B
Cobalt	ND	10	04/03/06	EPA 6010B
Copper	ND	1.0	04/05/06	EPA 6020
Iron	ND	100	04/03/06	EPA 6010B
Lead	ND	3.0	04/03/06	EPA 6010B
Magnesium	57,000	500	04/03/06	EPA 6010B
Manganese	ND	10	04/03/06	EPA 6010B
Nickel	ND	20	04/03/06	EPA 6010B
Potassium	870	500	04/03/06	EPA 6010B
Selenium	ND	5.0	04/03/06	EPA 6010B
Silver	ND	1.0	04/05/06	EPA 6020
Sodium	31,000	500	04/03/06	EPA 6010B
Thallium	ND	1.0	04/05/06	EPA 6020
Vanadium	ND	10	04/05/06	EPA 6020
Zinc	ND	20	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	1349MW01	Batch#:	111808
Lab ID:	185622-024	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	ND	100	1.000	04/03/06	EPA 6010B
Antimony	ND	1.0	1.000	04/05/06	EPA 6020
Arsenic	ND	5.0	1.000	04/03/06	EPA 6010B
Barium	32	10	1.000	04/03/06	EPA 6010B
Beryllium	ND	2.0	1.000	04/03/06	EPA 6010B
Cadmium	ND	1.0	1.000	04/05/06	EPA 6020
Calcium	110,000	2,500	5.000	04/03/06	EPA 6010B
Chromium	ND	10	1.000	04/03/06	EPA 6010B
Cobalt	ND	10	1.000	04/03/06	EPA 6010B
Copper	ND	1.0	1.000	04/05/06	EPA 6020
Iron	ND	100	1.000	04/03/06	EPA 6010B
Lead	ND	3.0	1.000	04/03/06	EPA 6010B
Magnesium	230,000	2,500	5.000	04/03/06	EPA 6010B
Manganese	ND	10	1.000	04/03/06	EPA 6010B
Nickel	ND	20	1.000	04/03/06	EPA 6010B
Potassium	1,900	500	1.000	04/03/06	EPA 6010B
Selenium	ND	5.0	1.000	04/03/06	EPA 6010B
Silver	ND	1.0	1.000	04/05/06	EPA 6020
Sodium	250,000	2,500	5.000	04/03/06	EPA 6010B
Thallium	ND	1.0	1.000	04/05/06	EPA 6020
Vanadium	ND	10	1.000	04/05/06	EPA 6020
Zinc	ND	20	1.000	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	1349MW03R	Batch#:	111808
Lab ID:	185622-025	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	ND	100	1.000	04/03/06	EPA 6010B
Antimony	ND	1.0	1.000	04/05/06	EPA 6020
Arsenic	ND	5.0	1.000	04/03/06	EPA 6010B
Barium	81	10	1.000	04/03/06	EPA 6010B
Beryllium	ND	2.0	1.000	04/03/06	EPA 6010B
Cadmium	ND	1.0	1.000	04/05/06	EPA 6020
Calcium	52,000	500	1.000	04/03/06	EPA 6010B
Chromium	120	10	1.000	04/03/06	EPA 6010B
Cobalt	ND	10	1.000	04/03/06	EPA 6010B
Copper	ND	1.0	1.000	04/05/06	EPA 6020
Iron	ND	100	1.000	04/03/06	EPA 6010B
Lead	ND	3.0	1.000	04/03/06	EPA 6010B
Magnesium	220,000	2,500	5.000	04/03/06	EPA 6010B
Manganese	ND	10	1.000	04/03/06	EPA 6010B
Nickel	ND	20	1.000	04/03/06	EPA 6010B
Potassium	1,300	500	1.000	04/03/06	EPA 6010B
Selenium	ND	5.0	1.000	04/03/06	EPA 6010B
Silver	ND	1.0	1.000	04/05/06	EPA 6020
Sodium	280,000	2,500	5.000	04/03/06	EPA 6010B
Thallium	ND	1.0	1.000	04/05/06	EPA 6020
Vanadium	ND	10	1.000	04/05/06	EPA 6020
Zinc	ND	20	1.000	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	1349MW100	Batch#:	111808
Lab ID:	185622-026	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	ND	100	1.000	04/03/06	EPA 6010B
Antimony	ND	1.0	1.000	04/05/06	EPA 6020
Arsenic	9.4	5.0	1.000	04/03/06	EPA 6010B
Barium	450	10	1.000	04/03/06	EPA 6010B
Beryllium	ND	2.0	1.000	04/03/06	EPA 6010B
Cadmium	ND	1.0	1.000	04/05/06	EPA 6020
Calcium	130,000	2,500	5.000	04/03/06	EPA 6010B
Chromium	ND	10	1.000	04/03/06	EPA 6010B
Cobalt	ND	10	1.000	04/03/06	EPA 6010B
Copper	ND	1.0	1.000	04/05/06	EPA 6020
Iron	27,000	100	1.000	04/03/06	EPA 6010B
Lead	ND	3.0	1.000	04/03/06	EPA 6010B
Magnesium	180,000	2,500	5.000	04/03/06	EPA 6010B
Manganese	14,000	50	5.000	04/03/06	EPA 6010B
Nickel	ND	20	1.000	04/03/06	EPA 6010B
Potassium	2,700	500	1.000	04/03/06	EPA 6010B
Selenium	10	5.0	1.000	04/03/06	EPA 6010B
Silver	ND	1.0	1.000	04/05/06	EPA 6020
Sodium	400,000	2,500	5.000	04/03/06	EPA 6010B
Thallium	ND	1.0	1.000	04/05/06	EPA 6020
Vanadium	ND	10	1.000	04/05/06	EPA 6020
Zinc	ND	20	1.000	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	1349MW101	Batch#:	111808
Lab ID:	185622-027	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/03/06	EPA 6010B
Antimony	ND	1.0	04/05/06	EPA 6020
Arsenic	ND	5.0	04/03/06	EPA 6010B
Barium	ND	10	04/03/06	EPA 6010B
Beryllium	ND	2.0	04/03/06	EPA 6010B
Cadmium	ND	1.0	04/05/06	EPA 6020
Calcium	15,000	500	04/03/06	EPA 6010B
Chromium	41	10	04/03/06	EPA 6010B
Cobalt	ND	10	04/03/06	EPA 6010B
Copper	ND	1.0	04/05/06	EPA 6020
Iron	ND	100	04/03/06	EPA 6010B
Lead	ND	3.0	04/03/06	EPA 6010B
Magnesium	58,000	500	04/03/06	EPA 6010B
Manganese	ND	10	04/03/06	EPA 6010B
Nickel	ND	20	04/03/06	EPA 6010B
Potassium	1,700	500	04/03/06	EPA 6010B
Selenium	ND	5.0	04/03/06	EPA 6010B
Silver	ND	1.0	04/05/06	EPA 6020
Sodium	94,000	500	04/03/06	EPA 6010B
Thallium	ND	1.0	04/05/06	EPA 6020
Vanadium	ND	10	04/05/06	EPA 6020
Zinc	ND	20	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF10GW03	Batch#:	111808
Lab ID:	185622-028	Sampled:	03/17/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/03/06	EPA 6010B
Antimony	ND	1.0	04/05/06	EPA 6020
Arsenic	ND	5.0	04/03/06	EPA 6010B
Barium	84	10	04/03/06	EPA 6010B
Beryllium	ND	2.0	04/03/06	EPA 6010B
Cadmium	ND	1.0	04/05/06	EPA 6020
Calcium	28,000	500	04/03/06	EPA 6010B
Chromium	ND	10	04/03/06	EPA 6010B
Cobalt	ND	10	04/03/06	EPA 6010B
Copper	1.1	1.0	04/05/06	EPA 6020
Iron	ND	100	04/03/06	EPA 6010B
Lead	ND	3.0	04/03/06	EPA 6010B
Magnesium	57,000	500	04/03/06	EPA 6010B
Manganese	ND	10	04/03/06	EPA 6010B
Nickel	37	20	04/03/06	EPA 6010B
Potassium	ND	500	04/03/06	EPA 6010B
Selenium	ND	5.0	04/03/06	EPA 6010B
Silver	ND	1.0	04/05/06	EPA 6020
Sodium	51,000	500	04/03/06	EPA 6010B
Thallium	ND	1.0	04/05/06	EPA 6020
Vanadium	ND	10	04/05/06	EPA 6020
Zinc	ND	20	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF10GW100	Batch#:	111808
Lab ID:	185622-029	Sampled:	03/17/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	ND	100	1.000	04/03/06	EPA 6010B
Antimony	ND	1.0	1.000	04/05/06	EPA 6020
Arsenic	ND	5.0	1.000	04/03/06	EPA 6010B
Barium	130	10	1.000	04/03/06	EPA 6010B
Beryllium	ND	2.0	1.000	04/03/06	EPA 6010B
Cadmium	ND	1.0	1.000	04/05/06	EPA 6020
Calcium	49,000	500	1.000	04/03/06	EPA 6010B
Chromium	ND	10	1.000	04/03/06	EPA 6010B
Cobalt	ND	10	1.000	04/03/06	EPA 6010B
Copper	ND	1.0	1.000	04/05/06	EPA 6020
Iron	ND	100	1.000	04/03/06	EPA 6010B
Lead	ND	3.0	1.000	04/03/06	EPA 6010B
Magnesium	87,000	500	1.000	04/03/06	EPA 6010B
Manganese	16	10	1.000	04/03/06	EPA 6010B
Nickel	ND	20	1.000	04/03/06	EPA 6010B
Potassium	ND	500	1.000	04/03/06	EPA 6010B
Selenium	ND	5.0	1.000	04/03/06	EPA 6010B
Silver	ND	1.0	1.000	04/05/06	EPA 6020
Sodium	180,000	2,500	5.000	04/03/06	EPA 6010B
Thallium	ND	1.0	1.000	04/05/06	EPA 6020
Vanadium	ND	10	1.000	04/05/06	EPA 6020
Zinc	ND	20	1.000	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF6GW101	Batch#:	111808
Lab ID:	185622-030	Sampled:	03/17/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/03/06	EPA 6010B
Antimony	ND	1.0	04/05/06	EPA 6020
Arsenic	ND	5.0	04/03/06	EPA 6010B
Barium	28	10	04/03/06	EPA 6010B
Beryllium	ND	2.0	04/03/06	EPA 6010B
Cadmium	ND	1.0	04/05/06	EPA 6020
Calcium	39,000	500	04/03/06	EPA 6010B
Chromium	17	10	04/03/06	EPA 6010B
Cobalt	ND	10	04/03/06	EPA 6010B
Copper	ND	1.0	04/05/06	EPA 6020
Iron	ND	100	04/03/06	EPA 6010B
Lead	ND	3.0	04/03/06	EPA 6010B
Magnesium	57,000	500	04/03/06	EPA 6010B
Manganese	ND	10	04/03/06	EPA 6010B
Nickel	ND	20	04/03/06	EPA 6010B
Potassium	ND	500	04/03/06	EPA 6010B
Selenium	ND	5.0	04/03/06	EPA 6010B
Silver	ND	1.0	04/05/06	EPA 6020
Sodium	52,000	500	04/03/06	EPA 6010B
Thallium	ND	1.0	04/05/06	EPA 6020
Vanadium	11	10	04/05/06	EPA 6020
Zinc	ND	20	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF6GW104	Batch#:	111808
Lab ID:	185622-031	Sampled:	03/17/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/03/06	EPA 6010B
Antimony	ND	1.0	04/05/06	EPA 6020
Arsenic	ND	5.0	04/03/06	EPA 6010B
Barium	46	10	04/03/06	EPA 6010B
Beryllium	ND	2.0	04/03/06	EPA 6010B
Cadmium	ND	1.0	04/05/06	EPA 6020
Calcium	41,000	500	04/03/06	EPA 6010B
Chromium	18	10	04/03/06	EPA 6010B
Cobalt	ND	10	04/03/06	EPA 6010B
Copper	ND	1.0	04/05/06	EPA 6020
Iron	ND	100	04/03/06	EPA 6010B
Lead	ND	3.0	04/03/06	EPA 6010B
Magnesium	65,000	500	04/03/06	EPA 6010B
Manganese	10	10	04/03/06	EPA 6010B
Nickel	ND	20	04/03/06	EPA 6010B
Potassium	ND	500	04/03/06	EPA 6010B
Selenium	ND	5.0	04/03/06	EPA 6010B
Silver	ND	1.0	04/05/06	EPA 6020
Sodium	69,000	500	04/03/06	EPA 6010B
Thallium	ND	1.0	04/05/06	EPA 6020
Vanadium	ND	10	04/05/06	EPA 6020
Zinc	ND	20	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF08GW01	Batch#:	111808
Lab ID:	185622-033	Sampled:	03/17/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	ND	100	1.000	04/03/06	EPA 6010B
Antimony	ND	1.0	1.000	04/05/06	EPA 6020
Arsenic	ND	5.0	1.000	04/03/06	EPA 6010B
Barium	310	10	1.000	04/03/06	EPA 6010B
Beryllium	ND	2.0	1.000	04/03/06	EPA 6010B
Cadmium	ND	1.0	1.000	04/05/06	EPA 6020
Calcium	43,000	500	1.000	04/03/06	EPA 6010B
Chromium	ND	10	1.000	04/03/06	EPA 6010B
Cobalt	ND	10	1.000	04/03/06	EPA 6010B
Copper	ND	1.0	1.000	04/05/06	EPA 6020
Iron	ND	100	1.000	04/03/06	EPA 6010B
Lead	ND	3.0	1.000	04/03/06	EPA 6010B
Magnesium	28,000	500	1.000	04/03/06	EPA 6010B
Manganese	ND	10	1.000	04/03/06	EPA 6010B
Nickel	ND	20	1.000	04/03/06	EPA 6010B
Potassium	1,700	500	1.000	04/03/06	EPA 6010B
Selenium	ND	5.0	1.000	04/03/06	EPA 6010B
Silver	ND	1.0	1.000	04/05/06	EPA 6020
Sodium	150,000	2,500	5.000	04/03/06	EPA 6010B
Thallium	ND	1.0	1.000	04/05/06	EPA 6020
Vanadium	ND	10	1.000	04/05/06	EPA 6020
Zinc	ND	20	1.000	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF08GW06	Batch#:	111808
Lab ID:	185622-034	Sampled:	03/17/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	ND	100	1.000	04/03/06	EPA 6010B
Antimony	ND	1.0	1.000	04/05/06	EPA 6020
Arsenic	ND	5.0	1.000	04/03/06	EPA 6010B
Barium	46	10	1.000	04/03/06	EPA 6010B
Beryllium	ND	2.0	1.000	04/03/06	EPA 6010B
Cadmium	ND	1.0	1.000	04/05/06	EPA 6020
Calcium	23,000	500	1.000	04/03/06	EPA 6010B
Chromium	ND	10	1.000	04/03/06	EPA 6010B
Cobalt	ND	10	1.000	04/03/06	EPA 6010B
Copper	ND	1.0	1.000	04/05/06	EPA 6020
Iron	ND	100	1.000	04/03/06	EPA 6010B
Lead	ND	3.0	1.000	04/03/06	EPA 6010B
Magnesium	22,000	500	1.000	04/03/06	EPA 6010B
Manganese	ND	10	1.000	04/03/06	EPA 6010B
Nickel	ND	20	1.000	04/03/06	EPA 6010B
Potassium	4,600	500	1.000	04/03/06	EPA 6010B
Selenium	ND	5.0	1.000	04/03/06	EPA 6010B
Silver	ND	1.0	1.000	04/05/06	EPA 6020
Sodium	140,000	2,500	5.000	04/03/06	EPA 6010B
Thallium	ND	1.0	1.000	04/05/06	EPA 6020
Vanadium	ND	10	1.000	04/05/06	EPA 6020
Zinc	ND	20	1.000	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF08GW06RB01	Batch#:	111808
Lab ID:	185622-035	Sampled:	03/17/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/03/06	EPA 6010B
Antimony	ND	1.0	04/05/06	EPA 6020
Arsenic	ND	5.0	04/03/06	EPA 6010B
Barium	ND	10	04/03/06	EPA 6010B
Beryllium	ND	2.0	04/03/06	EPA 6010B
Cadmium	ND	1.0	04/05/06	EPA 6020
Calcium	ND	500	04/03/06	EPA 6010B
Chromium	ND	10	04/03/06	EPA 6010B
Cobalt	ND	10	04/03/06	EPA 6010B
Copper	ND	1.0	04/05/06	EPA 6020
Iron	ND	100	04/03/06	EPA 6010B
Lead	ND	3.0	04/03/06	EPA 6010B
Magnesium	ND	500	04/03/06	EPA 6010B
Manganese	ND	10	04/03/06	EPA 6010B
Nickel	ND	20	04/03/06	EPA 6010B
Potassium	ND	500	04/03/06	EPA 6010B
Selenium	ND	5.0	04/03/06	EPA 6010B
Silver	ND	1.0	04/05/06	EPA 6020
Sodium	980	500	04/03/06	EPA 6010B
Thallium	ND	1.0	04/05/06	EPA 6020
Vanadium	ND	10	04/05/06	EPA 6020
Zinc	ND	20	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF6GW100	Batch#:	111808
Lab ID:	185622-036	Sampled:	03/17/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/03/06	EPA 6010B
Antimony	ND	1.0	04/05/06	EPA 6020
Arsenic	ND	5.0	04/03/06	EPA 6010B
Barium	18	10	04/03/06	EPA 6010B
Beryllium	ND	2.0	04/03/06	EPA 6010B
Cadmium	ND	1.0	04/05/06	EPA 6020
Calcium	31,000	500	04/03/06	EPA 6010B
Chromium	ND	10	04/03/06	EPA 6010B
Cobalt	ND	10	04/03/06	EPA 6010B
Copper	1.3	1.0	04/05/06	EPA 6020
Iron	ND	100	04/03/06	EPA 6010B
Lead	ND	3.0	04/03/06	EPA 6010B
Magnesium	41,000	500	04/03/06	EPA 6010B
Manganese	ND	10	04/03/06	EPA 6010B
Nickel	ND	20	04/03/06	EPA 6010B
Potassium	810	500	04/03/06	EPA 6010B
Selenium	ND	5.0	04/03/06	EPA 6010B
Silver	ND	1.0	04/05/06	EPA 6020
Sodium	27,000	500	04/03/06	EPA 6010B
Thallium	ND	1.0	04/05/06	EPA 6020
Vanadium	ND	10	04/05/06	EPA 6020
Zinc	ND	20	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF6GW103	Batch#:	111808
Lab ID:	185622-037	Sampled:	03/17/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/03/06	EPA 6010B
Antimony	ND	1.0	04/05/06	EPA 6020
Arsenic	ND	5.0	04/03/06	EPA 6010B
Barium	61	10	04/03/06	EPA 6010B
Beryllium	ND	2.0	04/03/06	EPA 6010B
Cadmium	ND	1.0	04/05/06	EPA 6020
Calcium	31,000	500	04/03/06	EPA 6010B
Chromium	26	10	04/03/06	EPA 6010B
Cobalt	ND	10	04/03/06	EPA 6010B
Copper	ND	1.0	04/05/06	EPA 6020
Iron	ND	100	04/03/06	EPA 6010B
Lead	ND	3.0	04/03/06	EPA 6010B
Magnesium	49,000	500	04/03/06	EPA 6010B
Manganese	ND	10	04/03/06	EPA 6010B
Nickel	ND	20	04/03/06	EPA 6010B
Potassium	ND	500	04/03/06	EPA 6010B
Selenium	ND	5.0	04/03/06	EPA 6010B
Silver	ND	1.0	04/05/06	EPA 6020
Sodium	59,000	500	04/03/06	EPA 6010B
Thallium	ND	1.0	04/05/06	EPA 6020
Vanadium	ND	10	04/05/06	EPA 6020
Zinc	ND	20	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC333515	Batch#:	111807
Matrix:	Filtrate	Prepared:	03/29/06
Units:	ug/L		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/03/06	EPA 6010B
Antimony	ND	1.0	04/04/06	EPA 6020
Arsenic	ND	5.0	04/03/06	EPA 6010B
Barium	ND	10	04/03/06	EPA 6010B
Beryllium	ND	2.0	04/03/06	EPA 6010B
Cadmium	ND	1.0	04/04/06	EPA 6020
Calcium	ND	500	04/03/06	EPA 6010B
Chromium	ND	10	04/03/06	EPA 6010B
Cobalt	ND	10	04/03/06	EPA 6010B
Copper	ND	1.0	04/04/06	EPA 6020
Iron	ND	100	04/03/06	EPA 6010B
Lead	ND	3.0	04/03/06	EPA 6010B
Magnesium	ND	500	04/03/06	EPA 6010B
Manganese	ND	10	04/03/06	EPA 6010B
Nickel	ND	20	04/03/06	EPA 6010B
Potassium	ND	500	04/03/06	EPA 6010B
Selenium	ND	5.0	04/03/06	EPA 6010B
Silver	ND	1.0	04/04/06	EPA 6020
Sodium	ND	500	04/03/06	EPA 6010B
Thallium	ND	1.0	04/04/06	EPA 6020
Vanadium	ND	10	04/04/06	EPA 6020
Zinc	ND	20	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC333522	Batch#:	111808
Matrix:	Filtrate	Prepared:	03/29/06
Units:	ug/L		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/03/06	EPA 6010B
Antimony	ND	1.0	04/05/06	EPA 6020
Arsenic	ND	5.0	04/03/06	EPA 6010B
Barium	ND	10	04/03/06	EPA 6010B
Beryllium	ND	2.0	04/03/06	EPA 6010B
Cadmium	ND	1.0	04/05/06	EPA 6020
Calcium	ND	500	04/03/06	EPA 6010B
Chromium	ND	10	04/03/06	EPA 6010B
Cobalt	ND	10	04/03/06	EPA 6010B
Copper	ND	1.0	04/05/06	EPA 6020
Iron	ND	100	04/03/06	EPA 6010B
Lead	ND	3.0	04/03/06	EPA 6010B
Magnesium	ND	500	04/03/06	EPA 6010B
Manganese	ND	10	04/03/06	EPA 6010B
Nickel	ND	20	04/03/06	EPA 6010B
Potassium	ND	500	04/03/06	EPA 6010B
Selenium	ND	5.0	04/03/06	EPA 6010B
Silver	ND	1.0	04/05/06	EPA 6020
Sodium	ND	500	04/03/06	EPA 6010B
Thallium	ND	1.0	04/05/06	EPA 6020
Vanadium	ND	10	04/05/06	EPA 6020
Zinc	ND	20	04/03/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Aluminum

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6010B
Analyte:	Aluminum	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000	Analyzed:	04/03/06

Field ID	Type	Lab ID	Result	RL	Batch#
BHWGW01	SAMPLE	185622-001	ND	100	111807
BHWGW05	SAMPLE	185622-002	ND	100	111807
	BLANK	QC333515	ND	100	111807
	BLANK	QC333522	ND	100	111808

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Chromium

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000	Analyzed:	04/03/06

Field ID	Type	Lab ID	Result	RL	Batch#
BHWGW01	SAMPLE	185622-001	110	10	111807
BHWGW05	SAMPLE	185622-002	ND	10	111807
	BLANK	QC333515	ND	10	111807
	BLANK	QC333522	ND	10	111808

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Iron

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6010B
Analyte:	Iron	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000	Analyzed:	04/03/06

Field ID	Type	Lab ID	Result	RL	Batch#
BHWGW01	SAMPLE	185622-001	ND	100	111807
BHWGW05	SAMPLE	185622-002	ND	100	111807
	BLANK	QC333515	ND	100	111807
	BLANK	QC333522	ND	100	111808

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Hardness (Total)

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	SM 2340B
Analyte:	Hardness as CaCO3	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	mg/L	Prepared:	03/29/06
Batch#:	111808	Analyzed:	04/03/06

Field ID	Type	Lab ID	Result	RL	Diln Fac
DAEGW101	SAMPLE	185622-020	780	3.3	5.000
DAEGW102	SAMPLE	185622-021	1,300	3.3	5.000
DAEGW104	SAMPLE	185622-022	260	3.3	1.000
	BLANK	QC333522	ND	3.3	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Molybdenum

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Analyte:	Molybdenum	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000	Analyzed:	04/05/06
Batch#:	111808		

Field ID	Type	Lab ID	Result	RL
DAEGW101	SAMPLE	185622-020	ND	5.0
DAEGW102	SAMPLE	185622-021	ND	5.0
DAEGW104	SAMPLE	185622-022	ND	5.0
	BLANK	QC333522	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Mercury by Cold Vapor AA

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L		

Field ID	Type	Lab ID	Result	RL	Batch#	Sampled	Prepared	Analyzed
LF08GW02B	SAMPLE	185622-003	ND	0.20	111500	03/16/06	03/21/06	03/21/06
LF08GW03	SAMPLE	185622-004	ND	0.20	111500	03/16/06	03/21/06	03/21/06
LF08GW04	SAMPLE	185622-005	ND	0.20	111500	03/16/06	03/21/06	03/21/06
DUP0316064A	SAMPLE	185622-006	ND	0.20	111468	03/16/06	03/20/06	03/20/06
LF08GW02BRB03	SAMPLE	185622-007	ND	0.20	111468	03/16/06	03/20/06	03/20/06
DAEGW101	SAMPLE	185622-020	ND	0.20	111468	03/16/06	03/20/06	03/20/06
DAEGW102	SAMPLE	185622-021	ND	0.20	111468	03/16/06	03/20/06	03/20/06
DAEGW104	SAMPLE	185622-022	ND	0.20	111468	03/16/06	03/20/06	03/20/06
1349MW01	SAMPLE	185622-024	ND	0.20	111468	03/16/06	03/20/06	03/20/06
1349MW03R	SAMPLE	185622-025	ND	0.20	111468	03/16/06	03/20/06	03/20/06
1349MW100	SAMPLE	185622-026	ND	0.20	111468	03/16/06	03/20/06	03/20/06
1349MW101	SAMPLE	185622-027	ND	0.20	111468	03/16/06	03/20/06	03/20/06
LF10GW03	SAMPLE	185622-028	ND	0.20	111468	03/17/06	03/20/06	03/20/06
LF10GW100	SAMPLE	185622-029	ND	0.20	111468	03/17/06	03/20/06	03/20/06
LF6GW101	SAMPLE	185622-030	ND	0.20	111468	03/17/06	03/20/06	03/20/06
LF6GW104	SAMPLE	185622-031	ND	0.20	111468	03/17/06	03/20/06	03/20/06
LF08GW01	SAMPLE	185622-033	ND	0.20	111468	03/17/06	03/20/06	03/20/06
LF08GW06	SAMPLE	185622-034	ND	0.20	111468	03/17/06	03/20/06	03/20/06
LF08GW06RB01	SAMPLE	185622-035	ND	0.20	111468	03/17/06	03/20/06	03/20/06
LF6GW100	SAMPLE	185622-036	ND	0.20	111468	03/17/06	03/20/06	03/20/06
LF6GW103	SAMPLE	185622-037	ND	0.20	111468	03/17/06	03/20/06	03/20/06
	BLANK	QC332184	ND	0.20	111468		03/20/06	03/20/06
	BLANK	QC332307	ND	0.20	111500		03/21/06	03/21/06

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Matrix:	Filtrate	Batch#:	111807
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Type: BS Lab ID: QC333516

Analyte	Spiked	Result	%REC	Limits	Analyzed	Analysis
Aluminum	100.0	79.79	80	80-120	04/03/06	EPA 6010B
Antimony	100.0	99.87	100	80-120	04/04/06	EPA 6020
Arsenic	100.0	107.4	107	80-120	04/03/06	EPA 6010B
Barium	100.0	103.8	104	80-120	04/03/06	EPA 6010B
Beryllium	100.0	104.1	104	80-120	04/03/06	EPA 6010B
Cadmium	100.0	100.3	100	80-120	04/04/06	EPA 6020
Calcium	10,000	9,758	98	80-120	04/03/06	EPA 6010B
Chromium	100.0	104.1	104	80-120	04/03/06	EPA 6010B
Cobalt	100.0	103.4	103	80-120	04/03/06	EPA 6010B
Copper	100.0	98.55	99	80-120	04/04/06	EPA 6020
Iron	10,000	10,160	102	80-120	04/03/06	EPA 6010B
Lead	100.0	104.4	104	80-120	04/03/06	EPA 6010B
Magnesium	10,000	10,030	100	80-120	04/03/06	EPA 6010B
Manganese	100.0	103.7	104	80-120	04/03/06	EPA 6010B
Nickel	100.0	105.4	105	80-120	04/03/06	EPA 6010B
Potassium	10,000	9,913	99	80-120	04/03/06	EPA 6010B
Selenium	100.0	110.1	110	80-120	04/03/06	EPA 6010B
Silver	100.0	106.0	106	80-120	04/04/06	EPA 6020
Sodium	10,000	9,777	98	80-120	04/03/06	EPA 6010B
Thallium	100.0	95.30	95	80-120	04/04/06	EPA 6020
Vanadium	100.0	98.30	98	80-120	04/04/06	EPA 6020
Zinc	100.0	118.8	119	80-120	04/03/06	EPA 6010B

Type: BSD Lab ID: QC333517

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed	Analysis
Aluminum	100.0	79.54	80	80-120	0	20	04/03/06	EPA 6010B
Antimony	100.0	98.81	99	80-120	1	20	04/04/06	EPA 6020
Arsenic	100.0	108.2	108	80-120	1	20	04/03/06	EPA 6010B
Barium	100.0	104.2	104	80-120	0	20	04/03/06	EPA 6010B
Beryllium	100.0	104.0	104	80-120	0	20	04/03/06	EPA 6010B
Cadmium	100.0	106.0	106	80-120	6	20	04/04/06	EPA 6020
Calcium	10,000	9,914	99	80-120	2	20	04/03/06	EPA 6010B
Chromium	100.0	105.3	105	80-120	1	20	04/03/06	EPA 6010B
Cobalt	100.0	104.5	104	80-120	1	20	04/03/06	EPA 6010B
Copper	100.0	96.72	97	80-120	2	20	04/04/06	EPA 6020
Iron	10,000	10,220	102	80-120	1	20	04/03/06	EPA 6010B
Lead	100.0	105.6	106	80-120	1	20	04/03/06	EPA 6010B
Magnesium	10,000	10,130	101	80-120	1	20	04/03/06	EPA 6010B
Manganese	100.0	103.6	104	80-120	0	20	04/03/06	EPA 6010B
Nickel	100.0	106.6	107	80-120	1	20	04/03/06	EPA 6010B
Potassium	10,000	10,090	101	80-120	2	20	04/03/06	EPA 6010B
Selenium	100.0	112.2	112	80-120	2	20	04/03/06	EPA 6010B
Silver	100.0	106.1	106	80-120	0	20	04/04/06	EPA 6020
Sodium	10,000	9,925	99	80-120	2	20	04/03/06	EPA 6010B
Thallium	100.0	95.91	96	80-120	1	20	04/04/06	EPA 6020
Vanadium	100.0	95.23	95	80-120	3	20	04/04/06	EPA 6020
Zinc	100.0	117.9	118	80-120	1	20	04/03/06	EPA 6010B

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Matrix:	Filtrate	Batch#:	111808
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Type: BS Lab ID: QC333523

Analyte	Spiked	Result	%REC	Limits	Analyzed	Analysis
Aluminum	100.0	86.77	87	80-120	04/03/06	EPA 6010B
Antimony	100.0	98.03	98	80-120	04/05/06	EPA 6020
Arsenic	100.0	97.34	97	80-120	04/03/06	EPA 6010B
Barium	100.0	96.43	96	80-120	04/03/06	EPA 6010B
Beryllium	100.0	100.8	101	80-120	04/03/06	EPA 6010B
Cadmium	100.0	101.2	101	80-120	04/05/06	EPA 6020
Calcium	10,000	9,220	92	80-120	04/03/06	EPA 6010B
Chromium	100.0	97.35	97	80-120	04/03/06	EPA 6010B
Cobalt	100.0	95.47	95	80-120	04/03/06	EPA 6010B
Copper	100.0	102.4	102	80-120	04/05/06	EPA 6020
Iron	10,000	8,964	90	80-120	04/03/06	EPA 6010B
Lead	100.0	98.63	99	80-120	04/03/06	EPA 6010B
Magnesium	10,000	9,318	93	80-120	04/03/06	EPA 6010B
Manganese	100.0	99.27	99	80-120	04/03/06	EPA 6010B
Nickel	100.0	93.77	94	80-120	04/03/06	EPA 6010B
Potassium	10,000	8,914	89	80-120	04/03/06	EPA 6010B
Selenium	100.0	102.8	103	80-120	04/03/06	EPA 6010B
Silver	100.0	106.5	107	80-120	04/05/06	EPA 6020
Sodium	10,000	9,156	92	80-120	04/03/06	EPA 6010B
Thallium	100.0	96.12	96	80-120	04/05/06	EPA 6020
Vanadium	100.0	100.5	101	80-120	04/05/06	EPA 6020
Zinc	100.0	97.90	98	80-120	04/03/06	EPA 6010B

Type: BSD Lab ID: QC333524

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed	Analysis
Aluminum	100.0	96.22	96	80-120	10	20	04/03/06	EPA 6010B
Antimony	100.0	97.95	98	80-120	0	20	04/05/06	EPA 6020
Arsenic	100.0	98.73	99	80-120	1	20	04/03/06	EPA 6010B
Barium	100.0	97.67	98	80-120	1	20	04/03/06	EPA 6010B
Beryllium	100.0	101.7	102	80-120	1	20	04/03/06	EPA 6010B
Cadmium	100.0	98.06	98	80-120	3	20	04/05/06	EPA 6020
Calcium	10,000	9,083	91	80-120	2	20	04/03/06	EPA 6010B
Chromium	100.0	97.64	98	80-120	0	20	04/03/06	EPA 6010B
Cobalt	100.0	96.76	97	80-120	1	20	04/03/06	EPA 6010B
Copper	100.0	104.5	105	80-120	2	20	04/05/06	EPA 6020
Iron	10,000	8,801	88	80-120	2	20	04/03/06	EPA 6010B
Lead	100.0	99.93	100	80-120	1	20	04/03/06	EPA 6010B
Magnesium	10,000	8,897	89	80-120	5	20	04/03/06	EPA 6010B
Manganese	100.0	98.37	98	80-120	1	20	04/03/06	EPA 6010B
Nickel	100.0	95.03	95	80-120	1	20	04/03/06	EPA 6010B
Potassium	10,000	8,782	88	80-120	1	20	04/03/06	EPA 6010B
Selenium	100.0	104.1	104	80-120	1	20	04/03/06	EPA 6010B
Silver	100.0	105.2	105	80-120	1	20	04/05/06	EPA 6020
Sodium	10,000	8,964	90	80-120	2	20	04/03/06	EPA 6010B
Thallium	100.0	93.61	94	80-120	3	20	04/05/06	EPA 6020
Vanadium	100.0	97.59	98	80-120	3	20	04/05/06	EPA 6020
Zinc	100.0	99.35	99	80-120	1	20	04/03/06	EPA 6010B

RPD= Relative Percent Difference

Batch QC Report

Dissolved Mercury by Cold Vapor AA

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Units:	ug/L
Matrix:	Filtrate	Diln Fac:	1.000

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Batch#	Sampled	Received	Prepared	Analyzed
	BS		QC332185		5.000	5.010	100	80-120			111468			03/20/06	03/20/06
	BSD		QC332186		5.000	4.800	96	80-120	4	20	111468			03/20/06	03/20/06
231GW09	MS	185586-017	QC332187	<0.07957	5.000	5.060	101	75-125			111468	03/15/06	03/16/06	03/20/06	03/20/06
231GW09	MSD	185586-017	QC332188		5.000	5.100	102	75-125	1	20	111468	03/15/06	03/16/06	03/20/06	03/20/06
	BS		QC332308		5.000	5.320	106	80-120			111500			03/21/06	03/21/06
	BSD		QC332309		5.000	5.160	103	80-120	3	20	111500			03/21/06	03/21/06
LF08GW02B	MS	185622-003	QC332310	<0.07957	5.000	5.240	105	75-125			111500	03/16/06	03/17/06	03/21/06	03/21/06
LF08GW02B	MSD	185622-003	QC332311		5.000	5.270	105	75-125	1	20	111500	03/16/06	03/17/06	03/21/06	03/21/06

480

RPD= Relative Percent Difference

193.0

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Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	BHWGW01	Batch#:	111807
MSS Lab ID:	185622-001	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Type: MS Lab ID: QC333518

Analyte	MSS Result	Spiked	Result	%REC	Limits	Analyzed	Analysis
Aluminum	<42.49	100.0	55.06	55 *	75-125	04/03/06	EPA 6010B
Antimony	0.1707	100.0	99.23	99	75-125	04/04/06	EPA 6020
Arsenic	<1.047	100.0	113.3	113	75-125	04/03/06	EPA 6010B
Barium	48.17	100.0	155.4	107	75-125	04/03/06	EPA 6010B
Beryllium	<0.2089	100.0	106.0	106	75-125	04/03/06	EPA 6010B
Cadmium	0.1714	100.0	96.40	96	75-125	04/04/06	EPA 6020
Calcium	16,960	10,000	26,380	94	75-125	04/03/06	EPA 6010B
Chromium	113.6	100.0	218.9	105	75-125	04/03/06	EPA 6010B
Cobalt	<0.4605	100.0	101.3	101	75-125	04/03/06	EPA 6010B
Copper	0.7210	100.0	91.03	90	75-125	04/04/06	EPA 6020
Iron	<17.23	10,000	10,170	102	75-125	04/03/06	EPA 6010B
Lead	<0.5698	100.0	99.64	100	75-125	04/03/06	EPA 6010B
Magnesium	81,000	10,000	90,390	94 NM	75-125	04/03/06	EPA 6010B
Manganese	<0.5991	100.0	105.7	106	75-125	04/03/06	EPA 6010B
Nickel	2.291	100.0	104.0	102	75-125	04/03/06	EPA 6010B
Potassium	255.8	10,000	10,300	100	75-125	04/03/06	EPA 6010B
Selenium	<1.575	100.0	113.5	114	75-125	04/03/06	EPA 6010B
Silver	0.05722	100.0	99.66	100	75-125	04/04/06	EPA 6020
Sodium	215,300	10,000	230,700 >LR	154 NM	75-125	04/03/06	EPA 6010B
Thallium	0.7788	100.0	97.97	97	75-125	04/04/06	EPA 6020
Vanadium	2.673	100.0	100.9	98	75-125	04/04/06	EPA 6020
Zinc	2.450	100.0	112.1	110	75-125	04/03/06	EPA 6010B

*= Value outside of QC limits; see narrative
NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	BHWGW01	Batch#:	111807
MSS Lab ID:	185622-001	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Type: MSD Lab ID: QC333519

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed	Analysis
Aluminum	100.0	79.90	80	75-125	37 *	20	04/03/06	EPA 6010B
Antimony	100.0	99.95	100	75-125	1	20	04/04/06	EPA 6020
Arsenic	100.0	113.3	113	75-125	0	20	04/03/06	EPA 6010B
Barium	100.0	155.2	107	75-125	0	20	04/03/06	EPA 6010B
Beryllium	100.0	106.7	107	75-125	1	20	04/03/06	EPA 6010B
Cadmium	100.0	95.63	95	75-125	1	20	04/04/06	EPA 6020
Calcium	10,000	26,490	95	75-125	0	20	04/03/06	EPA 6010B
Chromium	100.0	217.4	104	75-125	1	20	04/03/06	EPA 6010B
Cobalt	100.0	100.4	100	75-125	1	20	04/03/06	EPA 6010B
Copper	100.0	91.33	91	75-125	0	20	04/04/06	EPA 6020
Iron	10,000	9,979	100	75-125	2	20	04/03/06	EPA 6010B
Lead	100.0	98.54	99	75-125	1	20	04/03/06	EPA 6010B
Magnesium	10,000	91,030	100 NM	75-125	1	20	04/03/06	EPA 6010B
Manganese	100.0	105.5	106	75-125	0	20	04/03/06	EPA 6010B
Nickel	100.0	102.8	101	75-125	1	20	04/03/06	EPA 6010B
Potassium	10,000	10,350	101	75-125	0	20	04/03/06	EPA 6010B
Selenium	100.0	113.9	114	75-125	0	20	04/03/06	EPA 6010B
Silver	100.0	99.09	99	75-125	1	20	04/04/06	EPA 6020
Sodium	10,000	230,400 >LR	151 NM	75-125	NC	20	04/03/06	EPA 6010B
Thallium	100.0	100.1	99	75-125	2	20	04/04/06	EPA 6020
Vanadium	100.0	102.2	100	75-125	1	20	04/04/06	EPA 6020
Zinc	100.0	122.3	120	75-125	9	20	04/03/06	EPA 6010B

*= Value outside of QC limits; see narrative
NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	DAEGW101	Batch#:	111808
MSS Lab ID:	185622-020	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Type: MS Lab ID: QC333525

Analyte	MSS Result	Spiked	Result	%REC	Limits	Analyzed	Analysis
Aluminum	<28.42	100.0	102.3	102	75-125	04/03/06	EPA 6010B
Antimony	0.2203	100.0	102.7	102	75-125	04/05/06	EPA 6020
Arsenic	<0.8008	100.0	100.0	100	75-125	04/03/06	EPA 6010B
Barium	46.15	100.0	139.7	94	75-125	04/03/06	EPA 6010B
Beryllium	<0.6761	100.0	103.1	103	75-125	04/03/06	EPA 6010B
Cadmium	<0.1409	100.0	93.10	93	75-125	04/05/06	EPA 6020
Calcium	182,700	10,000	162,900 >LR	-198 NM	75-125	04/03/06	EPA 6010B
Chromium	<1.753	100.0	97.35	97	75-125	04/03/06	EPA 6010B
Cobalt	<1.505	100.0	93.59	94	75-125	04/03/06	EPA 6010B
Copper	1.022	100.0	99.50	98	75-125	04/05/06	EPA 6020
Iron	<39.10	10,000	8,670	87	75-125	04/03/06	EPA 6010B
Lead	<0.4605	100.0	97.26	97	75-125	04/03/06	EPA 6010B
Magnesium	79,320	10,000	81,560	22 NM	75-125	04/03/06	EPA 6010B
Manganese	305.7	100.0	392.4	87	75-125	04/03/06	EPA 6010B
Nickel	16.31	100.0	106.9	91	75-125	04/03/06	EPA 6010B
Potassium	29,580	10,000	36,140	66 *	75-125	04/03/06	EPA 6010B
Selenium	<2.560	100.0	107.0	107	75-125	04/03/06	EPA 6010B
Silver	0.04333	100.0	95.29	95	75-125	04/05/06	EPA 6020
Sodium	50,760	10,000	55,690	49 NM	75-125	04/03/06	EPA 6010B
Thallium	1.121	100.0	95.72	95	75-125	04/05/06	EPA 6020
Vanadium	2.870	100.0	107.0	104	75-125	04/05/06	EPA 6020
Zinc	<7.651	100.0	102.2	102	75-125	04/03/06	EPA 6010B

*= Value outside of QC limits; see narrative
NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	DAEGW101	Batch#:	111808
MSS Lab ID:	185622-020	Sampled:	03/16/06
Matrix:	Filtrate	Received:	03/17/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000		

Type: MSD Lab ID: QC333526

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed	Analysis
Aluminum	100.0	98.43	98	75-125	4	20	04/03/06	EPA 6010B
Antimony	100.0	102.6	102	75-125	0	20	04/05/06	EPA 6020
Arsenic	100.0	101.2	101	75-125	1	20	04/03/06	EPA 6010B
Barium	100.0	139.1	93	75-125	0	20	04/03/06	EPA 6010B
Beryllium	100.0	103.9	104	75-125	1	20	04/03/06	EPA 6010B
Cadmium	100.0	92.32	92	75-125	1	20	04/05/06	EPA 6020
Calcium	10,000	166,500 >LR	-162 NM	75-125	NC	20	04/03/06	EPA 6010B
Chromium	100.0	97.75	98	75-125	0	20	04/03/06	EPA 6010B
Cobalt	100.0	92.99	93	75-125	1	20	04/03/06	EPA 6010B
Copper	100.0	100.7	100	75-125	1	20	04/05/06	EPA 6020
Iron	10,000	8,746	87	75-125	1	20	04/03/06	EPA 6010B
Lead	100.0	96.10	96	75-125	1	20	04/03/06	EPA 6010B
Magnesium	10,000	83,180	39 NM	75-125	2	20	04/03/06	EPA 6010B
Manganese	100.0	397.2	92	75-125	1	20	04/03/06	EPA 6010B
Nickel	100.0	106.5	90	75-125	0	20	04/03/06	EPA 6010B
Potassium	10,000	36,970	74 *	75-125	2	20	04/03/06	EPA 6010B
Selenium	100.0	106.8	107	75-125	0	20	04/03/06	EPA 6010B
Silver	100.0	95.09	95	75-125	0	20	04/05/06	EPA 6020
Sodium	10,000	56,920	62 NM	75-125	2	20	04/03/06	EPA 6010B
Thallium	100.0	99.44	98	75-125	4	20	04/05/06	EPA 6020
Vanadium	100.0	105.6	103	75-125	1	20	04/05/06	EPA 6020
Zinc	100.0	102.5	103	75-125	0	20	04/03/06	EPA 6010B

*= Value outside of QC limits; see narrative
NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	BHWGW01	Units:	ug/L
Type:	Serial Dilution	Batch#:	111807
MSS Lab ID:	185622-001	Sampled:	03/16/06
Lab ID:	QC333520	Received:	03/17/06
Matrix:	Filtrate		

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Dilu Fac	Analyzed	Analysis
Aluminum	ND	100.0	ND	500.0		10	5.000	04/03/06	EPA 6010B
Antimony	ND	1.000	ND	5.000		10	5.000	04/04/06	EPA 6020
Arsenic	ND	5.000	ND	25.00		10	5.000	04/03/06	EPA 6010B
Barium	48.17	10.00	49.13 J	50.00	2	10	5.000	04/03/06	EPA 6010B
Beryllium	ND	2.000	ND	10.00		10	5.000	04/03/06	EPA 6010B
Cadmium	ND	1.000	ND	5.000		10	5.000	04/04/06	EPA 6020
Calcium	16,960	500.0	18,010	2,500	6	10	5.000	04/03/06	EPA 6010B
Chromium	113.6	10.00	115.8	50.00	2	10	5.000	04/03/06	EPA 6010B
Cobalt	ND	10.00	ND	50.00		10	5.000	04/03/06	EPA 6010B
Copper	ND	1.000	3.784 J	5.000		10	5.000	04/04/06	EPA 6020
Iron	ND	100.0	ND	500.0		10	5.000	04/03/06	EPA 6010B
Lead	ND	3.000	ND	15.00		10	5.000	04/03/06	EPA 6010B
Magnesium	81,000	500.0	87,170	2,500	8	10	5.000	04/03/06	EPA 6010B
Manganese	ND	10.00	ND	50.00		10	5.000	04/03/06	EPA 6010B
Nickel	ND	20.00	ND	100.0		10	5.000	04/03/06	EPA 6010B
Potassium	ND	500.0	ND	2,500		10	5.000	04/03/06	EPA 6010B
Selenium	ND	5.000	ND	25.00		10	5.000	04/03/06	EPA 6010B
Silver	ND	1.000	ND	5.000		10	5.000	04/04/06	EPA 6020
Sodium	215,300	2,500	238,800	12,500	11 *	10	25.00	04/04/06	EPA 6010B
Thallium	ND	1.000	0.9230 J	5.000		10	5.000	04/04/06	EPA 6020
Vanadium	ND	10.00	2.068 J	50.00		10	5.000	04/04/06	EPA 6020
Zinc	ND	20.00	ND	100.0		10	5.000	04/03/06	EPA 6010B

*= Value outside of QC limits; see narrative
J= Estimated value
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	DAEGW101	Units:	ug/L
Type:	Serial Dilution	Batch#:	111808
MSS Lab ID:	185622-020	Sampled:	03/16/06
Lab ID:	QC333527	Received:	03/17/06
Matrix:	Filtrate		

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Diln Fac	Analyzed	Analysis
Aluminum	ND	100.0	ND	500.0		10	5.000	04/03/06	EPA 6010B
Antimony	ND	1.000	ND	5.000		10	5.000	04/05/06	EPA 6020
Arsenic	ND	5.000	ND	25.00		10	5.000	04/03/06	EPA 6010B
Barium	46.15	10.00	46.33 J	50.00		10	5.000	04/03/06	EPA 6010B
Beryllium	ND	2.000	ND	10.00		10	5.000	04/03/06	EPA 6010B
Cadmium	ND	1.000	ND	5.000		10	5.000	04/05/06	EPA 6020
Calcium	182,700	2,500	192,000	12,500	5	10	25.00	04/03/06	EPA 6010B
Chromium	ND	10.00	ND	50.00		10	5.000	04/03/06	EPA 6010B
Cobalt	ND	10.00	ND	50.00		10	5.000	04/03/06	EPA 6010B
Copper	1.022	1.000	22.73	5.000		10	5.000	04/05/06	EPA 6020
Iron	ND	100.0	ND	500.0		10	5.000	04/03/06	EPA 6010B
Lead	ND	3.000	ND	15.00		10	5.000	04/03/06	EPA 6010B
Magnesium	79,320	500.0	89,470	2,500	13 *	10	5.000	04/03/06	EPA 6010B
Manganese	305.7	10.00	317.1	50.00	4	10	5.000	04/03/06	EPA 6010B
Nickel	ND	20.00	14.38 J	100.0		10	5.000	04/03/06	EPA 6010B
Potassium	29,580	500.0	32,310	2,500	9	10	5.000	04/03/06	EPA 6010B
Selenium	ND	5.000	ND	25.00		10	5.000	04/03/06	EPA 6010B
Silver	ND	1.000	0.2303 J	5.000		10	5.000	04/05/06	EPA 6020
Sodium	50,760	500.0	55,160	2,500	9	10	5.000	04/03/06	EPA 6010B
Thallium	1.121	1.000	1.534 J	5.000		10	5.000	04/05/06	EPA 6020
Vanadium	ND	10.00	2.759 J	50.00		10	5.000	04/05/06	EPA 6020
Zinc	ND	20.00	ND	100.0		10	5.000	04/03/06	EPA 6010B

*= Value outside of QC limits; see narrative
J= Estimated value
ND= Not Detected
RL= Reporting Limit

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : MSS
Inst : MET08
Seqnum: 86134731042
File : 040306ar.txt
IDF : 1.0
Lab ID: 185622-001
Matrix: Filtrate
Batch : 111807
Time : 03-APR-2006 17:07
Cal : 86134731001
Units : ug/L

Type : PDS
Inst : MET08
Seqnum: 86134731052
File : 040306ar.txt
IDF : 1.0
Lab ID: QC333521
Matrix: Filtrate
Batch : 111807
Time : 03-APR-2006 17:48
Cal : 86134731001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (100X)

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Aluminum	ND	R	100.0	84.02	R	84	75-125	
Antimony	ND	A	100.0	106.5	A	107	75-125	
Arsenic	ND	A	100.0	112.9	A	113	75-125	
Barium	48.17	A	100.0	152.7	A	105	75-125	
Beryllium	ND	A	100.0	105.2	A	105	75-125	
Cadmium	ND	A	100.0	105.7	A	106	75-125	
Calcium	16960	R	10000	26790	R	98	75-125	
Chromium	113.6	A	100.0	217.9	A	104	75-125	
Cobalt	ND	A	100.0	100.8	A	101	75-125	
Copper	0.8031	A	100.0	104.5	A	104	75-125	
Iron	ND	R	10000	10030	R	100	75-125	
Lead	ND	A	100.0	98.68	A	99	75-125	
Magnesium	81000	R	10000	91440	R	104	75-125	:
Manganese	ND	A	100.0	104.0	A	104	75-125	
Molybdenum	0.7900	A	100.0	107.7	A	107	75-125	
Nickel	2.291	A	100.0	103.4	A	101	75-125	
Potassium	255.8	R	10000	10170	R	99	75-125	
Selenium	ND	A	100.0	114.6	A	115	75-125	
Silver	ND	A	100.0	102.4	A	102	75-125	
Thallium	2.605	A	100.0	100.9	A	98	75-125	
Vanadium	2.722	A	100.0	107.2	A	105	75-125	
Zinc	2.450	A	100.0	122.7	A	120	75-125	
Boron	48.18	A	1000	1155	A	111	75-125	
Tin	ND	A	1000	1078	A	108	75-125	
Titanium	ND	A	1000	1048	A	105	75-125	

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	2090870	2040114	-2.43

:=recovery not meaningful

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : PDS
Inst : MET05
Seqnum: 56136078052
File : d0411052
IDF : 1.0
Lab ID: QC333521
Matrix: Filtrate
Batch : 111807
Time : 04-APR-2006 17:18
Cal : 56136078001
MSS : 185622-001
Units : ug/L

PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (100X), 05WS0207

Analyte	MSS Seqnum	Result	Spiked	PDS	%Rec	Limits	Flags
Aluminum	56135296080	11.14	100.0	92.79	82	75-125	<c- **b***
Antimony	56136078048	0.1707	100.0	100.7	101	75-125	
Arsenic	56136078048	0.9274	100.0	92.06	91	75-125	
Barium	56136078048	47.41	100.0	157.6	110	75-125	
Beryllium	56136078048	ND	100.0	95.50	96	75-125	
Cadmium	56136078048	0.1714	100.0	97.02	97	75-125	
Calcium	56136078048	16990	10000	26210 >LR	92	75-125	>LR **b***
Chromium	56136078048	113.0	100.0	218.9 >LR	106	75-125	>LR **b***
Cobalt	56136078048	0.1165	100.0	92.51	92	75-125	
Copper	56135296080	0.9352	100.0	92.74	92	75-125	
Iron	56136078048	30.39	10000	10260	102	75-125	
Lead	56136078048	ND	100.0	108.9	109	75-125	
Manganese	56136078048	0.7227	100.0	98.37	98	75-125	
Molybdenum	56136078048	0.5817	100.0	104.2	104	75-125	
Nickel	56136078048	3.880	100.0	95.53	92	75-125	
Potassium	56136078048	174.6	10000	9587	94	75-125	
Selenium	56136078048	0.9936	100.0	84.98	84	75-125	
Silver	56136078048	0.05722	100.0	101.0	101	75-125	
Thallium	56136078048	0.7788	100.0	98.13	97	75-125	
Vanadium	56136078048	2.673	100.0	104.8	102	75-125	
Zinc	56136078048	6.668	100.0	94.48	88	75-125	

ISTD (ICALBLK d0411003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	362929	302054	-16.77
Scandium	131427	108972	-17.09
Germanium	30176	22408	-25.74
Indium	208225	153469	-26.30
Bismuth	301976	219311	-27.37

MISSING READINGS: **MG NA**

-=low bias <=opening >LR=overrange b=noncompliant c=CCV

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : MSS
Inst : MET09
Seqnum: 96134643087
File : 040306ar.txt
IDF : 1.0
Lab ID: 185622-020
Matrix: Filtrate
Batch : 111808
Time : 03-APR-2006 18:23
Cal : 96134643001
Units : ug/L

Type : PDS
Inst : MET09
Seqnum: 96134643093
File : 040306ar.txt
IDF : 1.0
Lab ID: QC333528
Matrix: Filtrate
Batch : 111808
Time : 03-APR-2006 18:49
Cal : 96134643001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (100X)

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Aluminum	ND	R	100.0	97.90	R	98	75-125	r **b***
Antimony	7.062	A	100.0	109.6	A	103	75-125	
Arsenic	ND	A	100.0	101.6	A	102	75-125	
Barium	46.15	A	100.0	141.1	A	95	75-125	
Beryllium	ND	A	100.0	103.6	A	104	75-125	
Cadmium	ND	A	100.0	96.81	A	97	75-125	
Chromium	ND	A	100.0	97.98	A	98	75-125	
Cobalt	ND	A	100.0	94.46	A	94	75-125	
Copper	ND	A	100.0	99.68	A	100	75-125	
Iron	ND	R	10000	9094	R	91	75-125	
Lead	ND	A	100.0	95.74	A	96	75-125	
Magnesium	79320	R	10000	86400	R	71	75-125	:
Manganese	305.7	A	100.0	394.8	A	89	75-125	
Molybdenum	ND	A	100.0	102.9	A	103	75-125	
Nickel	16.31	A	100.0	107.9	A	92	75-125	
Potassium	29580	R	10000	38230	R	87	75-125	
Selenium	ND	A	100.0	109.7	A	110	75-125	
Silver	ND	A	100.0	102.1	A	102	75-125	
Sodium	50760	R	10000	58970	R	82	75-125	:
Thallium	10.11	A	100.0	105.5	A	95	75-125	
Vanadium	2.271	A	100.0	104.1	A	102	75-125	
Zinc	ND	A	100.0	103.3	A	103	75-125	
Boron	1376	A	1000	2375	A	100	75-125	
Tin	ND	A	1000	982.3	A	98	75-125	
Titanium	ND	A	1000	1015	A	102	75-125	

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	3356249	3388209	0.95

:=recovery not meaningful b=noncompliant r=RSD out

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : MSS
Inst : MET09
Seqnum: 96134643087
File : 040306ar.txt
IDF : 1.0
Lab ID: 185622-020
Matrix: Filtrate
Batch : 111808
Time : 03-APR-2006 18:23
Cal : 96134643001
Units : ug/L

Type : PDS
Inst : MET09
Seqnum: 96134643101
File : 040306ar.txt
IDF : 1.0
Lab ID: QC333528
Matrix: Filtrate
Batch : 111808
Time : 03-APR-2006 19:18
Cal : 96134643001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (100X)

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Aluminum	ND	R	100.0	97.90	R	98	75-125	
Antimony	7.062	A	100.0	108.8	A	102	75-125	
Arsenic	ND	A	100.0	101.7	A	102	75-125	
Barium	46.15	A	100.0	141.3	A	95	75-125	
Beryllium	ND	A	100.0	103.0	A	103	75-125	
Cadmium	ND	A	100.0	97.18	A	97	75-125	
Chromium	ND	A	100.0	97.62	A	98	75-125	
Cobalt	ND	A	100.0	94.40	A	94	75-125	
Copper	ND	A	100.0	99.20	A	99	75-125	
Iron	ND	R	10000	8590	R	86	75-125	
Lead	ND	A	100.0	97.86	A	98	75-125	
Magnesium	79320	R	10000	81830	R	25	75-125	:
Manganese	305.7	A	100.0	393.6	A	88	75-125	
Molybdenum	ND	A	100.0	102.8	A	103	75-125	
Nickel	16.31	A	100.0	108.0	A	92	75-125	
Potassium	29580	R	10000	36300	R	**67***	75-125	
Selenium	ND	A	100.0	107.3	A	107	75-125	
Silver	ND	A	100.0	102.5	A	103	75-125	
Sodium	50760	R	10000	55940	R	52	75-125	:
Thallium	10.11	A	100.0	104.5	A	94	75-125	
Vanadium	2.271	A	100.0	103.1	A	101	75-125	
Zinc	ND	A	100.0	103.5	A	104	75-125	
Boron	1376	A	1000	2356	A	98	75-125	
Tin	ND	A	1000	984.2	A	98	75-125	
Titanium	ND	A	1000	1010	A	101	75-125	

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	3356249	3381175	0.74

:=recovery not meaningful

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : PDS
Inst : MET05
Seqnum: 56136737028
File : d0422028
IDF : 1.0
Lab ID: QC333528
Matrix: Filtrate
Batch : 111808
Time : 05-APR-2006 01:28
Cal : 56136737001
MSS : 185622-020
Units : ug/L

PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (100X)

Analyte	MSS Seqnum	Result	Spiked	PDS	%Rec	Limits	Flags
Aluminum	56131695171	3.928	100.0	87.30	83	75-125	<c- b*
Antimony	56136737020	0.2203	100.0	104.0	104	75-125	
Arsenic	56136737020	1.547	100.0	94.32	93	75-125	
Barium	56136737020	48.90	100.0	169.0	120	75-125	
Cadmium	56136737020	ND	100.0	88.53	89	75-125	
Chromium	56136737020	0.4366	100.0	107.9	107	75-125	
Cobalt	56136737020	0.5448	100.0	106.1	106	75-125	
Copper	56136737020	1.022	100.0	102.9	102	75-125	
Iron	56136737020	332.8	10000	11730	114	75-125	
Lead	56131695171	ND	100.0	101.9	102	75-125	<c- b*
Molybdenum	56136737020	0.9006	100.0	97.21	96	75-125	
Nickel	56136737020	19.00	100.0	124.1	105	75-125	
Selenium	56136737020	0.8018	100.0	82.97	82	75-125	
Silver	56136737020	0.04333	100.0	92.55	93	75-125	
Thallium	56136737020	1.121	100.0	92.65	92	75-125	
Vanadium	56136737020	2.870	100.0	107.3	104	75-125	
Zinc	56136737020	6.044	100.0	98.63	93	75-125	

ISTD (ICALBLK d0422003)	ICALBLK Abund	PDS Abund	%Drift
Scandium	262316	110882	-57.73
Germanium	62044	25113	-59.52
Indium	450084	165439	-63.24
Bismuth	474799	228749	-51.82

MISSING READINGS: **BE CA MG MN K NA**

-=low bias <=opening b=noncompliant c=CCV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET09
Calnum : 96134643001
Units : ug/L

Date : 03-APR-2006 12:03
X Axis : R

Reviewer: ---
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	040306ar.txt	96134643002	CRIM08	03-APR-2006 12:07	S2544
L2	040306ar.txt	96134643003	CS100	03-APR-2006 12:10	S2568
L3	040306ar.txt	96134643004	CS1K	03-APR-2006 12:13	S2567
L4	040306ar.txt	96134643005	CS10K	03-APR-2006 12:15	S2569
L5	040306ar.txt	96134643006	CS100K	03-APR-2006 12:18	S2556

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	45.002	32.463	31.332	32.212		LOR0	0.00000	0.03105		35.252	1.000	0.995	
Arsenic	A	15.962	14.801	14.225	14.553		LOR0	0.00000	0.06873		14.885	1.000	0.995	
Barium	A	128.85	126.17	123.53	122.11		LOR0	0.00000	0.00819		125.16	1.000	0.995	
Beryllium	A	4634.2	4640.1	4515.1			LOR0	0.00000	2.21E-4		4596.5	1.000	0.995	
Boron	A	249.53		246.60	255.66		LOR0	0.00000	0.00391		250.60	1.000	0.995	
Cadmium	A	234.42	232.10	231.05	225.85		LOR0	0.00000	0.00443		230.85	1.000	0.995	
Chromium	A	241.13	224.87	219.57	219.39		LOR0	0.00000	0.00456		226.24	1.000	0.995	
Cobalt	A	78.776	79.080	78.790	78.867		LOR0	0.00000	0.01268		78.878	1.000	0.995	
Copper	A	689.19	684.03	680.65	687.31		LOR0	0.00000	0.00146		685.29	1.000	0.995	
Lead	A	83.971	86.897	83.943	83.670		LOR0	0.00000	0.01195		84.620	1.000	0.995	
Manganese	A	773.11	817.73	800.28	762.91		LOR0	0.00000	0.00131		788.51	1.000	0.995	
Molybdenum	A	59.211	58.209	56.186	56.519		LOR0	0.00000	0.01769		57.531	1.000	0.995	
Nickel	A	125.70	121.98	121.90	122.26		LOR0	0.00000	0.00818		122.96	1.000	0.995	
Selenium	A	25.744	20.220	19.574	19.984		LOR0	0.00000	0.05005		21.381	1.000	0.995	
Silver	A	640.62	645.03	630.71	627.37		LOR0	0.00000	0.00159		635.93	1.000	0.995	
Thallium	A	17.740	17.254	16.764	16.567		LOR0	0.00000	0.06035		17.081	1.000	0.995	
Tin	A	31.706	31.379	30.551	30.480		LOR0	0.00000	0.03281		31.029	1.000	0.995	
Titanium	A	758.09	783.29	768.09	758.28		LOR0	0.00000	0.00132		766.94	1.000	0.995	
Vanadium	A	200.41	207.16	203.62	207.03		LOR0	0.00000	0.00483		204.55	1.000	0.995	
Zinc	A	155.88	139.12	135.51	136.84		LOR0	0.00000	0.00731		141.84	1.000	0.995	
Aluminum	R	0.7061		0.9512	0.9324	0.9533	LOR0	0.00000	1.04922		0.8858	1.000	0.995	
Calcium	R	9.8144		10.307	10.206	10.154	LOR0	0.00000	0.09848		10.120	1.000	0.995	
Iron	R	12.174		12.553	12.126	12.032	LOR0	0.00000	0.08311		12.221	1.000	0.995	
Magnesium	R	2.2669		2.0403	1.9632	1.9488	LOR0	0.00000	0.51310		2.0548	1.000	0.995	
Potassium	R	3.8395		3.8999	3.3823	3.4667	LOR0	0.00000	0.28852		3.6471	1.000	0.995	
Sodium	R	12.355		12.301	11.650	11.658	LOR0	0.00000	0.08578		11.991	1.000	0.995	

492

LOR0=Linear regression forced thru origin, including 0,0 point

Instrument amount = a0 + response * a1 + response^2 * a2

Reprocessing Begun
Logged In Analyst: met09 Technique: ICP Continuous

Results Data Set (original): 040306a
Results Library (original): C:\pe\Optima 5300DV\Results\Results.mdb
Results Data Set (reprocessed): 040306ar
Results Library (reprocessed): C:\pe\Optima 5300DV\Results\Results.mdb

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 4/3/2006 12:03:47 PM
Data Type: Reprocessed on 4/3/2006 12:52:26 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	-540.3	118.23	21.88%	[0.00]	ug/L
Al 308.215 R	-29.4	2.57	8.74%	[0.00]	ug/L
As 188.979	18.9	16.36	86.50%	[0.00]	ug/L
B 249.677	521.6	16.37	3.14%	[0.00]	ug/L
Ba 233.527	16.1	5.84	36.21%	[0.00]	ug/L
Be 313.107	-759.0	73.51	9.69%	[0.00]	ug/L
Ca 315.887 R	1045.5	12.60	1.21%	[0.00]	ug/L
Cd 214.440	33.8	4.04	11.97%	[0.00]	ug/L
Co 228.616	-33.0	6.29	19.08%	[0.00]	ug/L
Cr 267.716	499.2	16.31	3.27%	[0.00]	ug/L
Cu 324.752	976.3	131.48	13.47%	[0.00]	ug/L
Fe 238.204 R	230.0	0.91	0.40%	[0.00]	ug/L
K 766.490 R	1895.3	269.56	14.22%	[0.00]	ug/L
Mg 279.077 R	-41.0	9.45	23.07%	[0.00]	ug/L
Mn 257.610	700.1	9.70	1.39%	[0.00]	ug/L
Mo 202.031	8.7	3.87	44.46%	[0.00]	ug/L
Na 589.592 R	1080.2	104.55	9.68%	[0.00]	ug/L
Ni 231.604	936.5	2.92	0.31%	[0.00]	ug/L
Pb 220.353	13.4	42.35	315.15%	[0.00]	ug/L
Sb 206.836	-57.1	11.88	20.79%	[0.00]	ug/L
Se 196.026	-38.8	13.68	35.23%	[0.00]	ug/L
Ti 334.940 R	73.5	14.84	20.18%	[0.00]	ug/L
Tl 190.801	14.1	39.01	276.37%	[0.00]	ug/L
V 292.402	-1616.4	8.12	0.50%	[0.00]	ug/L
Zn 206.200	101.2	1.79	1.77%	[0.00]	ug/L
Sn 189.927	-5.1	4.10	80.42%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 4/3/2006 12:07:42 PM
Data Type: Reprocessed on 4/3/2006 12:52:29 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3356248.8	29522.62	0.88%	100.0	%
Y	283479.8	3849.27	1.36%	100.00	%
Ag 328.068†	3203.1	94.02	2.94%	[5.0]	ug/L
Al 308.215 R†	70.6	18.78	26.59%	[100]	ug/L
As 188.979†	79.8	16.64	20.85%	[5.0]	ug/L
B 249.677†	24952.5	237.87	0.95%	[100]	ug/L
Ba 233.527†	644.2	4.24	0.66%	[5.0]	ug/L
Be 313.107†	9268.5	88.48	0.95%	[2.0]	ug/L
Ca 315.887 R†	1962.9	169.75	8.65%	[200]	ug/L
Cd 214.440†	1172.1	14.24	1.22%	[5.0]	ug/L
Co 228.616†	393.9	11.16	2.83%	[5.0]	ug/L
Cr 267.716†	1205.6	20.22	1.68%	[5.0]	ug/L
Cu 324.752†	3445.9	301.89	8.76%	[5.0]	ug/L
Fe 238.204 R†	1217.4	33.52	2.75%	[100]	ug/L
K 766.490 R†	1919.8	31.74	1.65%	[500]	ug/L
Mg 279.077 R†	453.4	12.32	2.72%	[200]	ug/L
Mn 257.610†	3865.5	35.04	0.91%	[5.0]	ug/L
Mo 202.031†	296.1	8.45	2.85%	[5.0]	ug/L
Na 589.592 R†	6177.7	128.80	2.08%	[500]	ug/L
Ni 231.604†	628.5	10.76	1.71%	[5.0]	ug/L
Pb 220.353†	251.9	15.26	6.06%	[3.0]	ug/L
Sb 206.836†	225.0	30.52	13.57%	[5.0]	ug/L
Se 196.026†	128.7	27.09	21.05%	[5.0]	ug/L
Ti 334.940 R†	7580.9	194.12	2.56%	[10]	ug/L
Tl 190.801†	88.7	19.72	22.23%	[5.0]	ug/L
V 292.402†	1002.0	7.13	0.71%	[5.0]	ug/L
Zn 206.200†	3117.6	19.47	0.62%	[20]	ug/L
Sn 189.927†	1268.2	12.67	1.00%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 4/3/2006 12:10:42 PM
Data Type: Reprocessed on 4/3/2006 12:52:31 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3417044.6	42085.48	1.23%	101.8	%
Y	300355.3	7704.65	2.57%	106.0	%
Ag 328.068†	64503.3	981.57	1.52%	[100]	ug/L
As 188.979†	1480.1	45.53	3.08%	[100]	ug/L
Ba 233.527†	12617.4	158.79	1.26%	[100]	ug/L
Be 313.107†	464006.0	6641.55	1.43%	[100]	ug/L
Cd 214.440†	23209.6	272.16	1.17%	[100]	ug/L
Co 228.616†	7908.0	102.90	1.30%	[100]	ug/L
Cr 267.716†	22487.5	381.70	1.70%	[100]	ug/L
Cu 324.752†	68403.3	1059.35	1.55%	[100]	ug/L
Mn 257.610†	81772.6	937.88	1.15%	[100]	ug/L
Mo 202.031†	5820.9	84.34	1.45%	[100]	ug/L
Ni 231.604†	12197.7	152.63	1.25%	[100]	ug/L
Pb 220.353†	8689.7	86.89	1.00%	[100]	ug/L
Sb 206.836†	3246.3	70.22	2.16%	[100]	ug/L
Se 196.026†	2022.0	20.03	0.99%	[100]	ug/L
Ti 334.940 R†	78328.8	1011.19	1.29%	[100]	ug/L
Tl 190.801†	1725.4	39.62	2.30%	[100]	ug/L
V 292.402†	20715.9	349.57	1.69%	[100]	ug/L
Zn 206.200†	13912.1	171.22	1.23%	[100]	ug/L
Sn 189.927†	3137.9	49.74	1.59%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 4/3/2006 12:13:38 PM
Data Type: Reprocessed on 4/3/2006 12:52:32 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3437786.4	28493.61	0.83%	102.4	%
Y	288838.7	2191.01	0.76%	101.9	%
Ag 328.068†	630714.3	615.79	0.10%	[1000]	ug/L
Al 308.215 R†	951.2	23.37	2.46%	[1000]	ug/L
As 188.979†	14224.5	37.35	0.26%	[1000]	ug/L
B 249.677†	246602.8	305.42	0.12%	[1000]	ug/L
Ba 233.527†	123526.6	156.24	0.13%	[1000]	ug/L
Be 313.107†	4515087.5	7040.34	0.16%	[1000]	ug/L
Ca 315.887 R†	10307.1	267.02	2.59%	[1000]	ug/L
Cd 214.440†	231046.7	163.45	0.07%	[1000]	ug/L
Co 228.616†	78790.2	70.09	0.09%	[1000]	ug/L
Cr 267.716†	219572.1	179.92	0.08%	[1000]	ug/L
Cu 324.752†	680653.7	571.34	0.08%	[1000]	ug/L
Fe 238.204 R†	12553.3	146.38	1.17%	[1000]	ug/L
K 766.490 R†	3899.9	141.55	3.63%	[1000]	ug/L
Mg 279.077 R†	2040.3	62.66	3.07%	[1000]	ug/L
Mn 257.610†	800280.9	312.53	0.04%	[1000]	ug/L
Mo 202.031†	56186.3	178.00	0.32%	[1000]	ug/L
Na 589.592 R†	12301.2	28.21	0.23%	[1000]	ug/L
Ni 231.604†	121900.4	94.59	0.08%	[1000]	ug/L
Pb 220.353†	83943.4	458.02	0.55%	[1000]	ug/L
Sb 206.836†	31332.5	258.39	0.82%	[1000]	ug/L
Se 196.026†	19573.6	108.30	0.55%	[1000]	ug/L
Ti 334.940 R†	768088.3	1264.34	0.16%	[1000]	ug/L
Tl 190.801†	16763.8	56.86	0.34%	[1000]	ug/L
V 292.402†	203622.5	205.89	0.10%	[1000]	ug/L
Zn 206.200†	135512.6	241.52	0.18%	[1000]	ug/L
Sn 189.927†	30551.0	53.17	0.17%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 4/3/2006 12:15:46 PM
Data Type: Reprocessed on 4/3/2006 12:52:34 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3322406.8	22425.35	0.67%	98.99	%
Y	285361.8	2321.46	0.81%	100.7	%
Ag 328.068†	1254737.2	7001.56	0.56%	[2000]	ug/L
Al 308.215 R†	9324.4	70.75	0.76%	[10000]	ug/L
As 188.979†	145526.1	1008.81	0.69%	[10000]	ug/L
B 249.677†	2556612.5	10038.64	0.39%	[10000]	ug/L
Ba 233.527†	1221054.5	3811.65	0.31%	[10000]	ug/L
Ca 315.887 R†	102056.9	387.70	0.38%	[10000]	ug/L
Cd 214.440†	2258518.1	8379.32	0.37%	[10000]	ug/L
Co 228.616†	788671.1	4131.61	0.52%	[10000]	ug/L
Cr 267.716†	2193942.5	5231.67	0.24%	[10000]	ug/L
Cu 324.752†	6873059.3	14997.34	0.22%	[10000]	ug/L
Fe 238.204 R†	121257.3	136.16	0.11%	[10000]	ug/L
K 766.490 R†	33822.6	171.72	0.51%	[10000]	ug/L
Mg 279.077 R†	19632.3	144.37	0.74%	[10000]	ug/L
Mn 257.610†	7629101.2	90350.44	1.18%	[10000]	ug/L
Mo 202.031†	565189.5	4796.77	0.85%	[10000]	ug/L
Na 589.592 R†	116498.0	247.15	0.21%	[10000]	ug/L
Ni 231.604†	1222616.3	4072.01	0.33%	[10000]	ug/L
Pb 220.353†	836701.8	8847.04	1.06%	[10000]	ug/L
Sb 206.836†	322115.4	1570.28	0.49%	[10000]	ug/L
Se 196.026†	199841.1	1269.04	0.64%	[10000]	ug/L
Ti 334.940 R†	7582809.1	62914.57	0.83%	[10000]	ug/L
Tl 190.801†	165674.0	1891.65	1.14%	[10000]	ug/L
V 292.402†	2070263.5	4726.75	0.23%	[10000]	ug/L
Zn 206.200†	1368401.7	7543.34	0.55%	[10000]	ug/L
Sn 189.927†	304804.6	2651.74	0.87%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : met09
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 4/3/2006 12:18:28 PM
Data Type: Reprocessed on 4/3/2006 12:52:35 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3117538.2	23630.31	0.76%	92.89	%
Y	276231.9	2424.98	0.88%	97.44	%
Al 308.215 Rt	95329.4	244.41	0.26%	[100000]	ug/L
Ca 315.887 Rt	1015385.3	1055.15	0.10%	[100000]	ug/L
Fe 238.204 Rt	1203196.8	34016.65	2.83%	[100000]	ug/L
K 766.490 Rt	346674.3	374.99	0.11%	[100000]	ug/L
Mg 279.077 Rt	194877.8	990.85	0.51%	[100000]	ug/L
Na 589.592 Rt	1165827.7	27716.25	2.38%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	628.1	0.00000	0.999997	
Al 308.215 R	4	Lin Thru 0	0.0	0.9531	0.00000	0.999998	
As 188.979	4	Lin Thru 0	0.0	14.55	0.00000	0.999997	
B 249.677	3	Lin Thru 0	0.0	255.6	0.00000	0.999994	
Ba 233.527	4	Lin Thru 0	0.0	122.1	0.00000	0.999999	
Be 313.107	3	Lin Thru 0	0.0	4516	0.00000	0.999996	
Ca 315.887 R	4	Lin Thru 0	0.0	10.15	0.00000	1.000000	
Cd 214.440	4	Lin Thru 0	0.0	225.9	0.00000	0.999997	
Co 228.616	4	Lin Thru 0	0.0	78.87	0.00000	1.000000	
Cr 267.716	4	Lin Thru 0	0.0	219.4	0.00000	1.000000	
Cu 324.752	4	Lin Thru 0	0.0	687.2	0.00000	1.000000	
Fe 238.204 R	4	Lin Thru 0	0.0	12.03	0.00000	1.000000	
K 766.490 R	4	Lin Thru 0	0.0	3.466	0.00000	0.999996	
Mg 279.077 R	4	Lin Thru 0	0.0	1.949	0.00000	1.000000	
Mn 257.610	4	Lin Thru 0	0.0	763.3	0.00000	0.999988	
Mo 202.031	4	Lin Thru 0	0.0	56.52	0.00000	1.000000	
Na 589.592 R	4	Lin Thru 0	0.0	11.66	0.00000	1.000000	
Ni 231.604	4	Lin Thru 0	0.0	122.3	0.00000	1.000000	
Pb 220.353	4	Lin Thru 0	0.0	83.67	0.00000	1.000000	
Sb 206.836	4	Lin Thru 0	0.0	32.20	0.00000	0.999996	
Se 196.026	4	Lin Thru 0	0.0	19.98	0.00000	0.999998	
Ti 334.940 R	4	Lin Thru 0	0.0	758.4	0.00000	0.999999	
Tl 190.801	4	Lin Thru 0	0.0	16.57	0.00000	0.999999	
V 292.402	4	Lin Thru 0	0.0	207.0	0.00000	0.999999	
Zn 206.200	4	Lin Thru 0	0.0	136.8	0.00000	0.999999	
Sn 189.927	4	Lin Thru 0	0.0	30.48	0.00000	1.000000	

Sequence No.: 7
Sample ID: S3049
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 4/3/2006 12:21:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: S3049

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3330413.2	99.23	%	0.746				0.75%
Y	286220.8	101.0	%	1.85				1.83%
Ag 328.068†	596037.1	949	ug/L	9.9	949	ug/L	9.9	1.04%
QC value within limits for Ag 328.068 Recovery = 94.90%								
Al 308.215 R†	18316.7	19200	ug/L	350.5	19200	ug/L	350.5	1.82%
QC value within limits for Al 308.215 R Recovery = 96.09%								
As 188.979†	71574.7	4920	ug/L	45.5	4920	ug/L	45.5	0.93%
QC value within limits for As 188.979 Recovery = 98.39%								
B 249.677†	1274335.8	4990	ug/L	8.7	4990	ug/L	8.7	0.17%
QC value within limits for B 249.677 Recovery = 99.72%								
Ba 233.527†	603724.8	4940	ug/L	14.7	4940	ug/L	14.7	0.30%
QC value within limits for Ba 233.527 Recovery = 98.87%								
Be 313.107†	2269591.0	503	ug/L	0.9	503	ug/L	0.9	0.19%
QC value within limits for Be 313.107 Recovery = 100.51%								
Ca 315.887 R†	199732.1	19700	ug/L	386.4	19700	ug/L	386.4	1.96%
QC value within limits for Ca 315.887 R Recovery = 98.35%								
Cd 214.440†	1127572.9	4990	ug/L	25.7	4990	ug/L	25.7	0.51%
QC value within limits for Cd 214.440 Recovery = 99.83%								
Co 228.616†	379620.5	4800	ug/L	17.8	4800	ug/L	17.8	0.37%
QC value within limits for Co 228.616 Recovery = 96.05%								
Cr 267.716†	1074152.6	4900	ug/L	6.4	4900	ug/L	6.4	0.13%
QC value within limits for Cr 267.716 Recovery = 97.92%								
Cu 324.752†	3338145.9	4860	ug/L	8.1	4860	ug/L	8.1	0.17%
QC value within limits for Cu 324.752 Recovery = 97.15%								
Fe 238.204 R†	236393.1	19600	ug/L	412.0	19600	ug/L	412.0	2.10%
QC value within limits for Fe 238.204 R Recovery = 98.23%								
K 766.490 R†	65884.2	19000	ug/L	283.8	19000	ug/L	283.8	1.49%
QC value within limits for K 766.490 R Recovery = 95.04%								
Mg 279.077 R†	38359.9	19700	ug/L	359.5	19700	ug/L	359.5	1.83%
QC value within limits for Mg 279.077 R Recovery = 98.41%								
Mn 257.610†	3775011.3	4950	ug/L	13.5	4950	ug/L	13.5	0.27%
QC value within limits for Mn 257.610 Recovery = 98.91%								
Mo 202.031†	282207.5	4990	ug/L	42.2	4990	ug/L	42.2	0.84%
QC value within limits for Mo 202.031 Recovery = 99.87%								
Na 589.592 R†	228646.2	19600	ug/L	348.5	19600	ug/L	348.5	1.78%
QC value within limits for Na 589.592 R Recovery = 98.06%								
Ni 231.604†	590095.4	4830	ug/L	11.6	4830	ug/L	11.6	0.24%
QC value within limits for Ni 231.604 Recovery = 96.53%								
Pb 220.353†	428923.1	4820	ug/L	59.5	4820	ug/L	59.5	1.23%
QC value within limits for Pb 220.353 Recovery = 96.47%								
Sb 206.836†	158044.7	4910	ug/L	58.5	4910	ug/L	58.5	1.19%
QC value within limits for Sb 206.836 Recovery = 98.16%								
Se 196.026†	98358.8	4920	ug/L	53.1	4920	ug/L	53.1	1.08%
QC value within limits for Se 196.026 Recovery = 98.36%								
Ti 334.940 R†	3706547.0	4890	ug/L	8.2	4890	ug/L	8.2	0.17%
QC value within limits for Ti 334.940 R Recovery = 97.75%								
Tl 190.801†	80542.0	4860	ug/L	26.8	4860	ug/L	26.8	0.55%
QC value within limits for Tl 190.801 Recovery = 97.22%								
V 292.402†	1010804.9	4880	ug/L	6.5	4880	ug/L	6.5	0.13%
QC value within limits for V 292.402 Recovery = 97.67%								
Zn 206.200†	668579.1	4880	ug/L	18.2	4880	ug/L	18.2	0.37%
QC value within limits for Zn 206.200 Recovery = 97.64%								
Sn 189.927†	148942.1	4890	ug/L	44.6	4890	ug/L	44.6	0.91%
QC value within limits for Sn 189.927 Recovery = 97.73%								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 4/3/2006 12:23:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3438357.2	102.4	%	1.87				1.83%
Y	286166.8	100.9	%	0.82				0.82%
Ag 328.068†	-321.4	-0.5	ug/L	0.18	-0.5	ug/L	0.18	35.42%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215 R†	-0.1	-0.1	ug/L	2.05	-0.1	ug/L	2.05	>999.9%
QC value within limits for Al 308.215 R Recovery = Not calculated								
As 188.979†	12.9	0.9	ug/L	1.16	0.9	ug/L	1.16	130.78%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	3253.7	12.7	ug/L	1.03	12.7	ug/L	1.03	8.10%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-17.1	-0.1	ug/L	0.05	-0.1	ug/L	0.05	34.25%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-45.4	0.0	ug/L	0.01	0.0	ug/L	0.01	94.92%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887 R†	-639.3	-63.0	ug/L	0.43	-63.0	ug/L	0.43	0.68%
QC value within limits for Ca 315.887 R Recovery = Not calculated								
Cd 214.440†	113.6	0.5	ug/L	0.05	0.5	ug/L	0.05	9.02%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	-2.2	0.0	ug/L	0.08	0.0	ug/L	0.08	313.56%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-50.0	-0.2	ug/L	0.05	-0.2	ug/L	0.05	21.85%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	7.8	0.0	ug/L	0.21	0.0	ug/L	0.21	>999.9%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.204 R†	-100.4	-8.3	ug/L	0.38	-8.3	ug/L	0.38	4.55%
QC value within limits for Fe 238.204 R Recovery = Not calculated								
K 766.490 R†	329.7	95.1	ug/L	90.78	95.1	ug/L	90.78	95.43%
QC value within limits for K 766.490 R Recovery = Not calculated								
Mg 279.077 R†	5.7	2.9	ug/L	4.88	2.9	ug/L	4.88	165.94%
QC value within limits for Mg 279.077 R Recovery = Not calculated								
Mn 257.610†	-356.8	-0.5	ug/L	0.00	-0.5	ug/L	0.00	0.63%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	13.7	0.2	ug/L	0.03	0.2	ug/L	0.03	13.06%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592 R†	-178.9	-15.3	ug/L	3.86	-15.3	ug/L	3.86	25.16%
QC value within limits for Na 589.592 R Recovery = Not calculated								
Ni 231.604†	-27.8	-0.2	ug/L	0.15	-0.2	ug/L	0.15	63.96%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	59.4	0.7	ug/L	1.01	0.7	ug/L	1.01	151.44%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	63.8	2.0	ug/L	1.52	2.0	ug/L	1.52	76.81%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	13.4	0.7	ug/L	2.11	0.7	ug/L	2.11	314.71%
QC value within limits for Se 196.026 Recovery = Not calculated								
Ti 334.940 R†	-115.1	-0.2	ug/L	0.02	-0.2	ug/L	0.02	15.79%
QC value within limits for Ti 334.940 R Recovery = Not calculated								
Tl 190.801†	44.3	2.7	ug/L	0.46	2.7	ug/L	0.46	17.08%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	61.3	0.3	ug/L	0.13	0.3	ug/L	0.13	44.13%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	27.0	0.2	ug/L	0.05	0.2	ug/L	0.05	25.32%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Sn 189.927†	53.8	1.8	ug/L	0.26	1.8	ug/L	0.26	14.54%
QC value within limits for Sn 189.927 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: S2555
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 4/3/2006 12:27:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: S2555

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2956005.8	88.07	%	0.606				0.69%
Y	261349.0	92.19	%	1.458				1.58%
Ag 328.068†	-975.1	-1.6	ug/L	0.46	-1.6	ug/L	0.46	29.85%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215 R†	492744.5	517000	ug/L	8968.6	517000	ug/L	8968.6	1.73%
QC value within limits for Al 308.215 R Recovery = 103.40%								
As 188.979†	81.0	5.6	ug/L	18.05	5.6	ug/L	18.05	324.06%
QC value greater than the upper limit for As 188.979 Recovery = Not calculated								
B 249.677†	-1330.8	-5.2	ug/L	2.32	-5.2	ug/L	2.32	44.61%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-254.5	-2.1	ug/L	0.09	-2.1	ug/L	0.09	4.22%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-4121.2	-0.9	ug/L	0.05	-0.9	ug/L	0.05	5.75%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887 R†	5096156.0	502000	ug/L	9559.8	502000	ug/L	9559.8	1.90%
QC value within limits for Ca 315.887 R Recovery = 100.37%								
Cd 214.440†	-1025.6	-4.5	ug/L	0.32	-4.5	ug/L	0.32	7.07%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	3554.5	1.3	ug/L	1.33	1.3	ug/L	1.33	100.81%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	4281384.7	19500	ug/L	44.1	19500	ug/L	44.1	0.23%
QC value within limits for Cr 267.716 Recovery = 97.57%								
Cu 324.752†	14588250.5	21200	ug/L	21.1	21200	ug/L	21.1	0.10%
QC value within limits for Cu 324.752 Recovery = 106.14%								
Fe 238.204 R†	2358463.7	196000	ug/L	3451.8	196000	ug/L	3451.8	1.76%
QC value within limits for Fe 238.204 R Recovery = 98.00%								
K 766.490 R†	439.1	127	ug/L	22.8	127	ug/L	22.8	17.97%
QC value within limits for K 766.490 R Recovery = Not calculated								
Mg 279.077 R†	999012.8	513000	ug/L	11273.7	513000	ug/L	11273.7	2.20%
QC value within limits for Mg 279.077 R Recovery = 102.52%								
Mn 257.610†	14560744.5	19100	ug/L	165.2	19100	ug/L	165.2	0.87%
QC value within limits for Mn 257.610 Recovery = 95.38%								
Mo 202.031†	-199.6	-3.5	ug/L	1.04	-3.5	ug/L	1.04	29.50%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592 R†	32.0	2.7	ug/L	5.96	2.7	ug/L	5.96	217.06%
QC value within limits for Na 589.592 R Recovery = Not calculated								
Ni 231.604†	2224436.8	18200	ug/L	48.9	18200	ug/L	48.9	0.27%
QC value within limits for Ni 231.604 Recovery = 90.97%								
Pb 220.353†	-382.7	-4.3	ug/L	11.20	-4.3	ug/L	11.20	260.33%
QC value less than the lower limit for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	636.3	19.8	ug/L	7.01	19.8	ug/L	7.01	35.49%
QC value greater than the upper limit for Sb 206.836 Recovery = Not calculated								
Se 196.026†	284.8	14.2	ug/L	8.53	14.2	ug/L	8.53	59.92%
QC value greater than the upper limit for Se 196.026 Recovery = Not calculated								
Ti 334.940 R†	15082639.2	19900	ug/L	160.1	19900	ug/L	160.1	0.81%
QC value within limits for Ti 334.940 R Recovery = 99.44%								
Tl 190.801†	221.7	13.4	ug/L	3.28	13.4	ug/L	3.28	24.54%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated								
V 292.402†	4220661.4	20400	ug/L	39.4	20400	ug/L	39.4	0.19%
QC value within limits for V 292.402 Recovery = 101.95%								
Zn 206.200†	3558.4	26.0	ug/L	1.10	26.0	ug/L	1.10	4.24%
QC value greater than the upper limit for Zn 206.200 Recovery = Not calculated								
Sn 189.927†	273.9	9.0	ug/L	2.42	9.0	ug/L	2.42	26.89%
QC value within limits for Sn 189.927 Recovery = Not calculated								

QC Failed. Stop the analysis.

User canceled analysis.

==========

Analysis Begun

Start Time: 4/3/2006 12:33:18 PM **Plasma On Time: 4/3/2006 7:14:45 AM**
Logged In Analyst: met09 **Technique: ICP Continuous**
Spectrometer Model: Optima 5300 DV, S/N 077N5033101Autosampler Model: AS-90

Sample Information File: C:\pe\Optima 5300DV\Sample Information\040306.sif
Batch ID: 111935
Results Data Set: 040306a
Results Library: C:\pe\Optima 5300DV\Results\Results.mdb

==========

Sequence No.: 9 **Autosampler Location: 9**
Sample ID: S2555 **Date Collected: 4/3/2006 12:33:18 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
User canceled analysis.

==========

Analysis Begun

Start Time: 4/3/2006 12:35:03 PM **Plasma On Time: 4/3/2006 7:14:45 AM**
Logged In Analyst: met09 **Technique: ICP Continuous**
Spectrometer Model: Optima 5300 DV, S/N 077N5033101Autosampler Model: AS-90

Sample Information File: C:\pe\Optima 5300DV\Sample Information\040306.sif
Batch ID: 111935
Results Data Set: 040306a
Results Library: C:\pe\Optima 5300DV\Results\Results.mdb

==========

Sequence No.: 9 **Autosampler Location: 9**
Sample ID: S2555 **Date Collected: 4/3/2006 12:35:03 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: S2555

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2926870.8	87.21	%	0.562				0.64%
Y	256396.6	90.45	%	0.994				1.10%
Ag 328.068†	-1143.6	-1.8	ug/L	0.60	-1.8	ug/L	0.60	32.91%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215 R†	489721.6	514000	ug/L	7867.1	514000	ug/L	7867.1	1.53%
QC value within limits for Al 308.215 R Recovery = 102.77%								
As 188.979†	21.0	1.4	ug/L	4.90	1.4	ug/L	4.90	339.86%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	-1582.6	-6.2	ug/L	3.51	-6.2	ug/L	3.51	56.69%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-321.0	-2.6	ug/L	0.44	-2.6	ug/L	0.44	16.59%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-4710.8	-1.0	ug/L	0.57	-1.0	ug/L	0.57	54.54%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887 R†	5160112.4	508000	ug/L	15598.0	508000	ug/L	15598.0	3.07%
QC value within limits for Ca 315.887 R Recovery = 101.63%								
Cd 214.440†	-1083.2	-4.8	ug/L	0.21	-4.8	ug/L	0.21	4.43%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	3627.2	2.2	ug/L	1.37	2.2	ug/L	1.37	62.17%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	4257258.1	19400	ug/L	78.6	19400	ug/L	78.6	0.40%
QC value within limits for Cr 267.716 Recovery = 97.02%								
Cu 324.752†	14439717.3	21000	ug/L	50.5	21000	ug/L	50.5	0.24%
QC value within limits for Cu 324.752 Recovery = 105.06%								
Fe 238.204 R†	2386627.3	198000	ug/L	5620.6	198000	ug/L	5620.6	2.83%
QC value within limits for Fe 238.204 R Recovery = 99.17%								
K 766.490 R†	728.8	210	ug/L	46.9	210	ug/L	46.9	22.31%

```
   QC value within limits for K 766.490 R  Recovery = Not calculated
Mg 279.077 R†        1019102.7      523000 ug/L       18013.6      523000 ug/L       18013.6   3.44%
   QC value within limits for Mg 279.077 R  Recovery = 104.58%
Mn 257.610†         14705907.1       19300 ug/L         227.4       19300 ug/L         227.4   1.18%
   QC value within limits for Mn 257.610  Recovery = 96.33%
Mo 202.031†             -206.9        -3.7 ug/L          0.61        -3.7 ug/L          0.61  16.59%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 R†             33.3         2.9 ug/L          5.53         2.9 ug/L          5.53 193.64%
   QC value within limits for Na 589.592 R  Recovery = Not calculated
Ni 231.604†          2219330.4       18200 ug/L          92.5       18200 ug/L          92.5   0.51%
   QC value within limits for Ni 231.604  Recovery = 90.76%
Pb 220.353†             -745.6        -8.4 ug/L          8.52        -8.4 ug/L          8.52 101.63%
   QC value less than the lower limit for Pb 220.353  Recovery = Not calculated
Sb 206.836†              106.7         3.3 ug/L          6.25         3.3 ug/L          6.25 188.71%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†              185.1         9.3 ug/L         14.63         9.3 ug/L         14.63 158.01%
   QC value greater than the upper limit for Se 196.026  Recovery = Not calculated
Ti 334.940 R†       15092089.4       19900 ug/L         255.4       19900 ug/L         255.4   1.28%
   QC value within limits for Ti 334.940 R  Recovery = 99.50%
Tl 190.801†                2.1         0.1 ug/L         11.17         0.1 ug/L         11.17 >999.9%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 292.402†           4186935.1       20200 ug/L          63.2       20200 ug/L          63.2   0.31%
   QC value within limits for V 292.402  Recovery = 101.14%
Zn 206.200†             3851.4        28.1 ug/L          1.64        28.1 ug/L          1.64   5.83%
   QC value greater than the upper limit for Zn 206.200  Recovery = Not calculated
Sn 189.927†              234.8         7.7 ug/L          0.92         7.7 ug/L          0.92  12.01%
   QC value within limits for Sn 189.927  Recovery = Not calculated
QC Failed.  Stop the analysis.
```

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET09
Seqnum : 96134643007 File : 040306ar.txt
Cal : 96134643001 Caldate: 03-APR-2006
Standards: S3049

IDF : 1.0
Time : 03-APR-2006 12:21

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	35.252	31.609	5000	4908	ug/L	-2	10	
Arsenic	A	14.885	14.315	5000	4919	ug/L	-2	10	
Barium	A	125.16	120.74	5000	4944	ug/L	-1	10	
Beryllium	A	4596.5	4539.2	500.0	502.5	ug/L	1	10	
Boron	A	250.60	254.87	5000	4986	ug/L	0	10	
Cadmium	A	230.85	225.51	5000	4991	ug/L	0	10	
Chromium	A	226.24	214.83	5000	4896	ug/L	-2	10	
Cobalt	A	78.878	75.924	5000	4803	ug/L	-4	10	
Copper	A	685.29	667.63	5000	4857	ug/L	-3	10	
Lead	A	84.620	80.566	5000	4814	ug/L	-4	10	
Manganese	A	788.51	755.00	5000	4946	ug/L	-1	10	
Molybdenum	A	57.531	56.442	5000	4993	ug/L	0	10	
Nickel	A	122.96	118.02	5000	4827	ug/L	-3	10	
Selenium	A	21.381	19.618	5000	4909	ug/L	-2	10	
Silver	A	635.93	596.04	1000	949.0	ug/L	-5	10	
Thallium	A	17.081	16.108	5000	4861	ug/L	-3	10	
Tin	A	31.029	29.788	5000	4886	ug/L	-2	10	
Titanium	A	766.94	741.31	5000	4887	ug/L	-2	10	
Vanadium	A	204.55	202.16	5000	4883	ug/L	-2	10	
Zinc	A	141.84	133.61	5000	4882	ug/L	-2	10	
Aluminum	R	0.8858	0.9158	20000	19220	ug/L	-4	10	
Calcium	R	10.120	9.9866	20000	19670	ug/L	-2	10	
Iron	R	12.221	11.820	20000	19650	ug/L	-2	10	
Magnesium	R	2.0548	1.9180	20000	19680	ug/L	-2	10	
Potassium	R	3.6471	3.2942	20000	19010	ug/L	-5	10	
Sodium	R	11.991	11.432	20000	19610	ug/L	-2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3356249	3330413	-0.77

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 96134643022 File : 040306ar.txt Time : 03-APR-2006 13:36
Cal : 96134643001 Caldate: 03-APR-2006
Standards: S3050

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	35.252	31.563	5000	4901	ug/L	-2	10	
Arsenic	A	14.885	14.346	5000	4930	ug/L	-1	10	
Barium	A	125.16	121.14	5000	4960	ug/L	-1	10	
Beryllium	A	4596.5	4545.6	500.0	503.2	ug/L	1	10	
Boron	A	250.60	255.34	5000	4995	ug/L	0	10	
Cadmium	A	230.85	225.73	5000	4996	ug/L	0	10	
Chromium	A	226.24	215.02	5000	4900	ug/L	-2	10	
Cobalt	A	78.878	76.318	5000	4828	ug/L	-3	10	
Copper	A	685.29	669.29	5000	4869	ug/L	-3	10	
Lead	A	84.620	85.584	5000	5114	ug/L	2	10	
Manganese	A	788.51	757.40	5000	4961	ug/L	-1	10	
Molybdenum	A	57.531	56.543	5000	5002	ug/L	0	10	
Nickel	A	122.96	118.23	5000	4835	ug/L	-3	10	
Selenium	A	21.381	19.618	5000	4909	ug/L	-2	10	
Silver	A	635.93	597.90	1000	952.0	ug/L	-5	10	
Thallium	A	17.081	16.140	5000	4870	ug/L	-3	10	
Tin	A	31.029	29.765	5000	4883	ug/L	-2	10	
Titanium	A	766.94	743.58	5000	4902	ug/L	-2	10	
Vanadium	A	204.55	202.36	5000	4888	ug/L	-2	10	
Zinc	A	141.84	133.93	5000	4894	ug/L	-2	10	
Aluminum	R	0.8858	0.9219	20000	19350	ug/L	-3	10	
Calcium	R	10.120	10.088	20000	19870	ug/L	-1	10	
Iron	R	12.221	11.811	20000	19630	ug/L	-2	10	
Magnesium	R	2.0548	1.9358	20000	19870	ug/L	-1	10	
Potassium	R	3.6471	3.3215	20000	19170	ug/L	-4	10	
Sodium	R	11.991	11.515	20000	19750	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3356249	3309348	-1.40

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 96134643032
Cal : 96134643001
Standards: S3050

File : 040306ar.txt
Caldate: 03-APR-2006

IDF : 1.0
Time : 03-APR-2006 14:11

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	35.252	32.124	5000	4988	ug/L	0	10	
Arsenic	A	14.885	14.574	5000	5009	ug/L	0	10	
Barium	A	125.16	121.30	5000	4966	ug/L	-1	10	
Beryllium	A	4596.5	4564.0	500.0	505.3	ug/L	1	10	
Boron	A	250.60	258.62	5000	5060	ug/L	1	10	
Cadmium	A	230.85	226.27	5000	5008	ug/L	0	10	
Chromium	A	226.24	216.00	5000	4923	ug/L	-2	10	
Cobalt	A	78.878	76.611	5000	4846	ug/L	-3	10	
Copper	A	685.29	668.18	5000	4861	ug/L	-3	10	
Lead	A	84.620	85.911	5000	5134	ug/L	3	10	
Manganese	A	788.51	756.96	5000	4959	ug/L	-1	10	
Molybdenum	A	57.531	57.298	5000	5069	ug/L	1	10	
Nickel	A	122.96	118.69	5000	4854	ug/L	-3	10	
Selenium	A	21.381	19.937	5000	4989	ug/L	0	10	
Silver	A	635.93	599.94	1000	955.2	ug/L	-4	10	
Thallium	A	17.081	16.529	5000	4988	ug/L	0	10	
Tin	A	31.029	30.231	5000	4959	ug/L	-1	10	
Titanium	A	766.94	744.23	5000	4907	ug/L	-2	10	
Vanadium	A	204.55	202.86	5000	4900	ug/L	-2	10	
Zinc	A	141.84	134.71	5000	4923	ug/L	-2	10	
Aluminum	R	0.8858	0.9068	20000	19030	ug/L	-5	10	
Calcium	R	10.120	10.013	20000	19720	ug/L	-1	10	
Iron	R	12.221	11.580	20000	19250	ug/L	-4	10	
Magnesium	R	2.0548	1.9390	20000	19900	ug/L	-1	10	
Potassium	R	3.6471	3.2789	20000	18920	ug/L	-5	10	
Sodium	R	11.991	11.108	20000	19060	ug/L	-5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3356249	3366359	0.30

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 96134643045
Cal : 96134643001
Standards: S3050

File : 040306ar.txt
Caldate: 03-APR-2006

IDF : 1.0
Time : 03-APR-2006 14:57

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	35.252	31.896	5000	4952	ug/L	-1	10	
Arsenic	A	14.885	14.492	5000	4980	ug/L	0	10	
Barium	A	125.16	119.53	5000	4894	ug/L	-2	10	
Beryllium	A	4596.5	4486.2	500.0	496.7	ug/L	-1	10	
Boron	A	250.60	252.23	5000	4935	ug/L	-1	10	
Cadmium	A	230.85	221.45	5000	4901	ug/L	-2	10	
Chromium	A	226.24	212.99	5000	4854	ug/L	-3	10	
Cobalt	A	78.878	75.404	5000	4770	ug/L	-5	10	
Copper	A	685.29	659.27	5000	4797	ug/L	-4	10	
Lead	A	84.620	84.682	5000	5060	ug/L	1	10	
Manganese	A	788.51	742.72	5000	4865	ug/L	-3	10	
Molybdenum	A	57.531	57.137	5000	5055	ug/L	1	10	
Nickel	A	122.96	116.75	5000	4775	ug/L	-5	10	
Selenium	A	21.381	19.781	5000	4950	ug/L	-1	10	
Silver	A	635.93	598.55	1000	953.0	ug/L	-5	10	
Thallium	A	17.081	16.590	5000	5006	ug/L	0	10	
Tin	A	31.029	30.086	5000	4935	ug/L	-1	10	
Titanium	A	766.94	734.81	5000	4845	ug/L	-3	10	
Vanadium	A	204.55	200.11	5000	4834	ug/L	-3	10	
Zinc	A	141.84	132.10	5000	4827	ug/L	-3	10	
Aluminum	R	0.8858	0.8860	20000	18590	ug/L	-7	10	
Calcium	R	10.120	9.7236	20000	19150	ug/L	-4	10	
Iron	R	12.221	11.109	20000	18460	ug/L	-8	10	
Magnesium	R	2.0548	1.8783	20000	19280	ug/L	-4	10	
Potassium	R	3.6471	3.2100	20000	18520	ug/L	-7	10	
Sodium	R	11.991	11.163	20000	19150	ug/L	-4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3356249	3345899	-0.31

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 96134643059 File : 040306ar.txt IDF : 1.0
Cal : 96134643001 Caldate: 03-APR-2006 Time : 03-APR-2006 15:45
Standards: S3050

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	35.252	31.638	5000	4912	ug/L	-2	10	
Arsenic	A	14.885	14.382	5000	4943	ug/L	-1	10	
Barium	A	125.16	121.12	5000	4959	ug/L	-1	10	
Beryllium	A	4596.5	4548.8	500.0	503.6	ug/L	1	10	
Boron	A	250.60	257.93	5000	5046	ug/L	1	10	
Cadmium	A	230.85	224.12	5000	4960	ug/L	-1	10	
Chromium	A	226.24	215.30	5000	4907	ug/L	-2	10	
Cobalt	A	78.878	76.632	5000	4848	ug/L	-3	10	
Copper	A	685.29	675.04	5000	4911	ug/L	-2	10	
Lead	A	84.620	82.979	5000	4959	ug/L	-1	10	
Manganese	A	788.51	752.23	5000	4928	ug/L	-1	10	
Molybdenum	A	57.531	56.815	5000	5026	ug/L	1	10	
Nickel	A	122.96	118.22	5000	4835	ug/L	-3	10	
Selenium	A	21.381	19.625	5000	4911	ug/L	-2	10	
Silver	A	635.93	598.24	1000	952.5	ug/L	-5	10	
Thallium	A	17.081	16.558	5000	4997	ug/L	0	10	
Tin	A	31.029	29.759	5000	4882	ug/L	-2	10	
Titanium	A	766.94	745.10	5000	4912	ug/L	-2	10	
Vanadium	A	204.55	202.42	5000	4890	ug/L	-2	10	
Zinc	A	141.84	134.23	5000	4905	ug/L	-2	10	
Aluminum	R	0.8858	0.9185	20000	19270	ug/L	-4	10	
Calcium	R	10.120	10.050	20000	19790	ug/L	-1	10	
Iron	R	12.221	11.434	20000	19000	ug/L	-5	10	
Magnesium	R	2.0548	1.9429	20000	19940	ug/L	0	10	
Potassium	R	3.6471	3.3411	20000	19280	ug/L	-4	10	
Sodium	R	11.991	11.599	20000	19900	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3356249	3330003	-0.78

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 96134643072 File : 040306ar.txt Time : 03-APR-2006 16:36
Cal : 96134643001 Caldate: 03-APR-2006
Standards: S3050

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	35.252	31.469	5000	4886	ug/L	-2	10	
Arsenic	A	14.885	14.258	5000	4900	ug/L	-2	10	
Barium	A	125.16	118.48	5000	4851	ug/L	-3	10	
Beryllium	A	4596.5	4441.7	500.0	491.7	ug/L	-2	10	
Boron	A	250.60	248.53	5000	4862	ug/L	-3	10	
Cadmium	A	230.85	217.17	5000	4807	ug/L	-4	10	
Chromium	A	226.24	211.04	5000	4809	ug/L	-4	10	
Cobalt	A	78.878	74.517	5000	4714	ug/L	-6	10	
Copper	A	685.29	656.61	5000	4777	ug/L	-4	10	
Lead	A	84.620	83.178	5000	4970	ug/L	-1	10	
Manganese	A	788.51	733.95	5000	4808	ug/L	-4	10	
Molybdenum	A	57.531	56.480	5000	4997	ug/L	0	10	
Nickel	A	122.96	115.28	5000	4714	ug/L	-6	10	
Selenium	A	21.381	19.465	5000	4871	ug/L	-3	10	
Silver	A	635.93	591.99	1000	942.5	ug/L	-6	10	
Thallium	A	17.081	16.382	5000	4943	ug/L	-1	10	
Tin	A	31.029	29.542	5000	4846	ug/L	-3	10	
Titanium	A	766.94	731.32	5000	4822	ug/L	-4	10	
Vanadium	A	204.55	198.67	5000	4799	ug/L	-4	10	
Zinc	A	141.84	129.68	5000	4739	ug/L	-5	10	
Aluminum	R	0.8858	0.9170	20000	19240	ug/L	-4	10	
Calcium	R	10.120	9.9546	20000	19610	ug/L	-2	10	
Iron	R	12.221	11.296	20000	18780	ug/L	-6	10	
Magnesium	R	2.0548	1.9188	20000	19690	ug/L	-2	10	
Potassium	R	3.6471	3.2983	20000	19030	ug/L	-5	10	
Sodium	R	11.991	11.348	20000	19470	ug/L	-3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3356249	3448799	2.76

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 96134643083 File : 040306ar.txt IDF : 1.0
Cal : 96134643001 Caldate: 03-APR-2006 Time : 03-APR-2006 18:09
Standards: S3050

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	35.252	32.176	5000	4996	ug/L	0	10	
Arsenic	A	14.885	14.590	5000	5014	ug/L	0	10	
Barium	A	125.16	120.44	5000	4931	ug/L	-1	10	
Beryllium	A	4596.5	4528.0	500.0	501.3	ug/L	0	10	
Boron	A	250.60	253.13	5000	4952	ug/L	-1	10	
Cadmium	A	230.85	221.13	5000	4894	ug/L	-2	10	
Chromium	A	226.24	214.36	5000	4885	ug/L	-2	10	
Cobalt	A	78.878	75.906	5000	4802	ug/L	-4	10	
Copper	A	685.29	664.96	5000	4838	ug/L	-3	10	
Lead	A	84.620	85.194	5000	5091	ug/L	2	10	
Manganese	A	788.51	746.69	5000	4891	ug/L	-2	10	
Molybdenum	A	57.531	57.595	5000	5095	ug/L	2	10	
Nickel	A	122.96	117.44	5000	4803	ug/L	-4	10	
Selenium	A	21.381	20.165	5000	5046	ug/L	1	10	
Silver	A	635.93	604.91	1000	963.1	ug/L	-4	10	
Thallium	A	17.081	16.757	5000	5057	ug/L	1	10	
Tin	A	31.029	30.245	5000	4961	ug/L	-1	10	
Titanium	A	766.94	742.37	5000	4894	ug/L	-2	10	
Vanadium	A	204.55	201.78	5000	4874	ug/L	-3	10	
Zinc	A	141.84	132.35	5000	4836	ug/L	-3	10	
Aluminum	R	0.8858	0.9972	20000	20930	ug/L	5	10	
Calcium	R	10.120	10.857	20000	21380	ug/L	7	10	
Iron	R	12.221	12.390	20000	20590	ug/L	3	10	
Magnesium	R	2.0548	2.0908	20000	21460	ug/L	7	10	
Potassium	R	3.6471	3.5928	20000	20730	ug/L	4	10	
Sodium	R	11.991	12.515	20000	21470	ug/L	7	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3356249	3402388	1.37

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 96134643096 File : 040306ar.txt IDF : 1.0
Cal : 96134643001 Caldate: 03-APR-2006 Time : 03-APR-2006 19:00
Standards: S3050

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	35.252	31.513	5000	4893	ug/L	-2	10	
Arsenic	A	14.885	14.402	5000	4949	ug/L	-1	10	
Barium	A	125.16	120.33	5000	4927	ug/L	-1	10	
Beryllium	A	4596.5	4526.8	500.0	501.2	ug/L	0	10	
Boron	A	250.60	252.94	5000	4949	ug/L	-1	10	
Cadmium	A	230.85	223.96	5000	4957	ug/L	-1	10	
Chromium	A	226.24	213.90	5000	4875	ug/L	-3	10	
Cobalt	A	78.878	76.104	5000	4814	ug/L	-4	10	
Copper	A	685.29	660.40	5000	4805	ug/L	-4	10	
Lead	A	84.620	83.217	5000	4973	ug/L	-1	10	
Manganese	A	788.51	748.08	5000	4900	ug/L	-2	10	
Molybdenum	A	57.531	56.443	5000	4994	ug/L	0	10	
Nickel	A	122.96	117.77	5000	4816	ug/L	-4	10	
Selenium	A	21.381	19.798	5000	4954	ug/L	-1	10	
Silver	A	635.93	589.51	1000	938.6	ug/L	-6	10	
Thallium	A	17.081	16.445	5000	4963	ug/L	-1	10	
Tin	A	31.029	29.752	5000	4880	ug/L	-2	10	
Titanium	A	766.94	738.36	5000	4868	ug/L	-3	10	
Vanadium	A	204.55	200.82	5000	4851	ug/L	-3	10	
Zinc	A	141.84	133.85	5000	4891	ug/L	-2	10	
Aluminum	R	0.8858	0.8927	20000	18730	ug/L	-6	10	
Calcium	R	10.120	9.8451	20000	19390	ug/L	-3	10	
Iron	R	12.221	11.164	20000	18560	ug/L	-7	10	
Magnesium	R	2.0548	1.9168	20000	19670	ug/L	-2	10	
Potassium	R	3.6471	3.2249	20000	18610	ug/L	-7	10	
Sodium	R	11.991	11.241	20000	19280	ug/L	-4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3356249	3471075	3.42

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 96134643111 File : 040306ar.txt Time : 03-APR-2006 19:53
Cal : 96134643001 Caldate: 03-APR-2006
Standards: S3050

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	35.252	31.451	5000	4883	ug/L	-2	10	
Arsenic	A	14.885	14.294	5000	4912	ug/L	-2	10	
Barium	A	125.16	120.52	5000	4934	ug/L	-1	10	
Beryllium	A	4596.5	4525.0	500.0	501.0	ug/L	0	10	
Boron	A	250.60	253.63	5000	4962	ug/L	-1	10	
Cadmium	A	230.85	221.92	5000	4912	ug/L	-2	10	
Chromium	A	226.24	214.31	5000	4884	ug/L	-2	10	
Cobalt	A	78.878	76.081	5000	4813	ug/L	-4	10	
Copper	A	685.29	665.02	5000	4838	ug/L	-3	10	
Lead	A	84.620	82.932	5000	4956	ug/L	-1	10	
Manganese	A	788.51	743.62	5000	4871	ug/L	-3	10	
Molybdenum	A	57.531	56.485	5000	4997	ug/L	0	10	
Nickel	A	122.96	117.63	5000	4811	ug/L	-4	10	
Selenium	A	21.381	19.522	5000	4885	ug/L	-2	10	
Silver	A	635.93	591.35	1000	941.5	ug/L	-6	10	
Thallium	A	17.081	16.418	5000	4954	ug/L	-1	10	
Tin	A	31.029	29.657	5000	4865	ug/L	-3	10	
Titanium	A	766.94	741.71	5000	4890	ug/L	-2	10	
Vanadium	A	204.55	201.62	5000	4870	ug/L	-3	10	
Zinc	A	141.84	132.98	5000	4859	ug/L	-3	10	
Aluminum	R	0.8858	0.9313	20000	19540	ug/L	-2	10	
Calcium	R	10.120	10.189	20000	20070	ug/L	0	10	
Iron	R	12.221	11.615	20000	19310	ug/L	-3	10	
Magnesium	R	2.0548	1.9638	20000	20150	ug/L	1	10	
Potassium	R	3.6471	3.3787	20000	19500	ug/L	-3	10	
Sodium	R	11.991	11.968	20000	20530	ug/L	3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3356249	3382806	0.79

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 96134643125 File : 040306ar.txt IDF : 1.0
Cal : 96134643001 Caldate: 03-APR-2006 Time : 03-APR-2006 20:46
Standards: S3050

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	35.252	31.488	5000	4889	ug/L	-2	10	
Arsenic	A	14.885	14.329	5000	4924	ug/L	-2	10	
Barium	A	125.16	119.83	5000	4906	ug/L	-2	10	
Beryllium	A	4596.5	4509.7	500.0	499.3	ug/L	0	10	
Boron	A	250.60	252.45	5000	4939	ug/L	-1	10	
Cadmium	A	230.85	222.16	5000	4917	ug/L	-2	10	
Chromium	A	226.24	213.31	5000	4861	ug/L	-3	10	
Cobalt	A	78.878	75.808	5000	4795	ug/L	-4	10	
Copper	A	685.29	660.84	5000	4808	ug/L	-4	10	
Lead	A	84.620	82.780	5000	4947	ug/L	-1	10	
Manganese	A	788.51	742.68	5000	4865	ug/L	-3	10	
Molybdenum	A	57.531	56.482	5000	4997	ug/L	0	10	
Nickel	A	122.96	117.15	5000	4791	ug/L	-4	10	
Selenium	A	21.381	19.635	5000	4914	ug/L	-2	10	
Silver	A	635.93	590.33	1000	939.9	ug/L	-6	10	
Thallium	A	17.081	16.562	5000	4998	ug/L	0	10	
Tin	A	31.029	29.696	5000	4871	ug/L	-3	10	
Titanium	A	766.94	737.03	5000	4859	ug/L	-3	10	
Vanadium	A	204.55	200.42	5000	4841	ug/L	-3	10	
Zinc	A	141.84	132.85	5000	4855	ug/L	-3	10	
Aluminum	R	0.8858	0.9277	20000	19470	ug/L	-3	10	
Calcium	R	10.120	10.175	20000	20040	ug/L	0	10	
Iron	R	12.221	11.526	20000	19160	ug/L	-4	10	
Magnesium	R	2.0548	1.9654	20000	20170	ug/L	1	10	
Potassium	R	3.6471	3.3701	20000	19450	ug/L	-3	10	
Sodium	R	11.991	11.819	20000	20280	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3356249	3437912	2.43

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET09
Seqnum : 96134643136
Cal : 96134643001
Standards: S3050

File : 040306ar.txt
Caldate: 03-APR-2006

IDF : 1.0
Time : 03-APR-2006 21:26

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	35.252	31.881	5000	4950	ug/L	-1	10	
Arsenic	A	14.885	14.571	5000	5007	ug/L	0	10	
Barium	A	125.16	121.08	5000	4957	ug/L	-1	10	
Beryllium	A	4596.5	4552.3	500.0	504.0	ug/L	1	10	
Boron	A	250.60	253.95	5000	4968	ug/L	-1	10	
Cadmium	A	230.85	224.07	5000	4959	ug/L	-1	10	
Chromium	A	226.24	215.66	5000	4915	ug/L	-2	10	
Cobalt	A	78.878	76.536	5000	4841	ug/L	-3	10	
Copper	A	685.29	667.04	5000	4853	ug/L	-3	10	
Lead	A	84.620	82.990	5000	4959	ug/L	-1	10	
Manganese	A	788.51	748.79	5000	4905	ug/L	-2	10	
Molybdenum	A	57.531	57.327	5000	5072	ug/L	1	10	
Nickel	A	122.96	118.23	5000	4835	ug/L	-3	10	
Selenium	A	21.381	19.919	5000	4985	ug/L	0	10	
Silver	A	635.93	598.60	1000	953.1	ug/L	-5	10	
Thallium	A	17.081	16.705	5000	5041	ug/L	1	10	
Tin	A	31.029	30.155	5000	4946	ug/L	-1	10	
Titanium	A	766.94	744.28	5000	4907	ug/L	-2	10	
Vanadium	A	204.55	202.64	5000	4895	ug/L	-2	10	
Zinc	A	141.84	134.02	5000	4898	ug/L	-2	10	
Aluminum	R	0.8858	0.9151	20000	19200	ug/L	-4	10	
Calcium	R	10.120	9.9724	20000	19640	ug/L	-2	10	
Iron	R	12.221	11.292	20000	18770	ug/L	-6	10	
Magnesium	R	2.0548	1.9229	20000	19730	ug/L	-1	10	
Potassium	R	3.6471	3.3201	20000	19160	ug/L	-4	10	
Sodium	R	11.991	11.616	20000	19930	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3356249	3403705	1.41

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 96134643008 File : 040306ar.txt IDF : 1.0
Cal : 96134643001 Caldate: 03-APR-2006 Time : 03-APR-2006 12:23

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	4.325	ug/L	
Arsenic	A	[0.8877]	5.000	0.8008	ug/L	!ib
Barium	A	ND	5.000	1.593	ug/L	
Beryllium	A	ND	2.000	0.6761	ug/L	
Boron	A	[12.73]	100.0	12.29	ug/L	!ib
Cadmium	A	ND	5.000	1.677	ug/L	
Chromium	A	ND	5.000	1.753	ug/L	
Cobalt	A	ND	5.000	1.505	ug/L	
Copper	A	ND	5.000	2.012	ug/L	
Lead	A	[0.5768]	3.000	0.4605	ug/L	!ib
Manganese	A	ND	5.000	1.786	ug/L	
Molybdenum	A	ND	5.000	1.640	ug/L	
Nickel	A	ND	5.000	2.044	ug/L	
Selenium	A	ND	5.000	2.560	ug/L	
Silver	A	ND	5.000	1.169	ug/L	
Thallium	A	[2.671]	5.000	1.633	ug/L	!ib
Tin	A	ND	40.00	13.93	ug/L	
Titanium	A	ND	10.00	3.491	ug/L	
Vanadium	A	ND	5.000	1.500	ug/L	
Zinc	A	ND	20.00	7.651	ug/L	
Aluminum	R	ND	100.0	28.42	ug/L	
Calcium	R	ND	200.0	27.82	ug/L	
Iron	R	ND	100.0	39.10	ug/L	
Magnesium	R	ND	200.0	94.82	ug/L	
Potassium	R	ND	500.0	177.3	ug/L	
Sodium	R	ND	500.0	70.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3356249	3438357	2.45

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 96134643024 File : 040306ar.txt Time : 03-APR-2006 13:43
Cal : 96134643001 Caldate: 03-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	4.325	ug/L	
Arsenic	A	ND	5.000	0.8008	ug/L	
Barium	A	ND	5.000	1.593	ug/L	
Beryllium	A	ND	2.000	0.6761	ug/L	
Boron	A	ND	100.0	12.29	ug/L	
Cadmium	A	ND	5.000	1.677	ug/L	
Chromium	A	ND	5.000	1.753	ug/L	
Cobalt	A	ND	5.000	1.505	ug/L	
Copper	A	ND	5.000	2.012	ug/L	
Lead	A	ND	3.000	0.4605	ug/L	
Manganese	A	ND	5.000	1.786	ug/L	
Molybdenum	A	ND	5.000	1.640	ug/L	
Nickel	A	ND	5.000	2.044	ug/L	
Selenium	A	[4.054]	5.000	2.560	ug/L	!ib
Silver	A	ND	5.000	1.169	ug/L	
Thallium	A	ND	5.000	1.633	ug/L	
Tin	A	ND	40.00	13.93	ug/L	
Titanium	A	ND	10.00	3.491	ug/L	
Vanadium	A	ND	5.000	1.500	ug/L	
Zinc	A	ND	20.00	7.651	ug/L	
Aluminum	R	ND	100.0	28.42	ug/L	
Calcium	R	ND	200.0	27.82	ug/L	
Iron	R	ND	100.0	39.10	ug/L	
Magnesium	R	ND	200.0	94.82	ug/L	
Potassium	R	ND	500.0	177.3	ug/L	
Sodium	R	ND	500.0	70.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3356249	3505091	4.43

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 96134643035 File : 040306ar.txt
Cal : 96134643001 Caldate: 03-APR-2006
IDF : 1.0
Time : 03-APR-2006 14:24

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	4.325	ug/L	
Arsenic	A	ND	5.000	0.8008	ug/L	
Barium	A	ND	5.000	1.593	ug/L	
Beryllium	A	ND	2.000	0.6761	ug/L	
Boron	A	[39.01]	100.0	12.29	ug/L	!ib
Cadmium	A	ND	5.000	1.677	ug/L	
Chromium	A	ND	5.000	1.753	ug/L	
Cobalt	A	ND	5.000	1.505	ug/L	
Copper	A	ND	5.000	2.012	ug/L	
Lead	A	ND	3.000	0.4605	ug/L	
Manganese	A	ND	5.000	1.786	ug/L	
Molybdenum	A	ND	5.000	1.640	ug/L	
Nickel	A	ND	5.000	2.044	ug/L	
Selenium	A	ND	5.000	2.560	ug/L	
Silver	A	ND	5.000	1.169	ug/L	
Thallium	A	ND	5.000	1.633	ug/L	
Tin	A	ND	40.00	13.93	ug/L	
Titanium	A	ND	10.00	3.491	ug/L	
Vanadium	A	ND	5.000	1.500	ug/L	
Zinc	A	ND	20.00	7.651	ug/L	
Aluminum	R	ND	100.0	28.42	ug/L	
Calcium	R	ND	200.0	27.82	ug/L	
Iron	R	ND	100.0	39.10	ug/L	
Magnesium	R	ND	200.0	94.82	ug/L	
Potassium	R	ND	500.0	177.3	ug/L	
Sodium	R	ND	500.0	70.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3356249	3508574	4.54

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 96134643047 File : 040306ar.txt Time : 03-APR-2006 15:04
Cal : 96134643001 Caldate: 03-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	4.325	ug/L	
Arsenic	A	ND	5.000	0.8008	ug/L	
Barium	A	ND	5.000	1.593	ug/L	
Beryllium	A	ND	2.000	0.6761	ug/L	
Boron	A	[20.85]	100.0	12.29	ug/L	!ib
Cadmium	A	ND	5.000	1.677	ug/L	
Chromium	A	ND	5.000	1.753	ug/L	
Cobalt	A	ND	5.000	1.505	ug/L	
Copper	A	ND	5.000	2.012	ug/L	
Lead	A	ND	3.000	0.4605	ug/L	
Manganese	A	ND	5.000	1.786	ug/L	
Molybdenum	A	ND	5.000	1.640	ug/L	
Nickel	A	ND	5.000	2.044	ug/L	
Selenium	A	ND	5.000	2.560	ug/L	
Silver	A	ND	5.000	1.169	ug/L	
Thallium	A	ND	5.000	1.633	ug/L	
Tin	A	ND	40.00	13.93	ug/L	
Titanium	A	ND	10.00	3.491	ug/L	
Vanadium	A	ND	5.000	1.500	ug/L	
Zinc	A	ND	20.00	7.651	ug/L	
Aluminum	R	ND	100.0	28.42	ug/L	
Calcium	R	ND	200.0	27.82	ug/L	
Iron	R	ND	100.0	39.10	ug/L	
Magnesium	R	ND	200.0	94.82	ug/L	
Potassium	R	ND	500.0	177.3	ug/L	
Sodium	R	ND	500.0	70.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3356249	3564078	6.19

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 96134643061 File : 040306ar.txt
Cal : 96134643001 Caldate: 03-APR-2006
IDF : 1.0
Time : 03-APR-2006 15:51

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	[4.847]	5.000	4.325	ug/L	!ib
Arsenic	A	[2.241]	5.000	0.8008	ug/L	!ib
Barium	A	[2.190]	5.000	1.593	ug/L	!ib
Beryllium	A	ND	2.000	0.6761	ug/L	
Boron	A	[37.83]	100.0	12.29	ug/L	!ib
Cadmium	A	[2.687]	5.000	1.677	ug/L	!ib
Chromium	A	[2.027]	5.000	1.753	ug/L	!ib
Cobalt	A	[2.197]	5.000	1.505	ug/L	!ib
Copper	A	[2.781]	5.000	2.012	ug/L	!ib
Lead	A	[1.625]	3.000	0.4605	ug/L	!ib
Manganese	A	[1.857]	5.000	1.786	ug/L	!ib
Molybdenum	A	[4.089]	5.000	1.640	ug/L	!ib
Nickel	A	ND	5.000	2.044	ug/L	
Selenium	A	[2.822]	5.000	2.560	ug/L	!ib
Silver	A	ND	5.000	1.169	ug/L	
Thallium	A	7.404	5.000	1.633	ug/L	ib ***
Tin	A	ND	40.00	13.93	ug/L	
Titanium	A	ND	10.00	3.491	ug/L	
Vanadium	A	[2.472]	5.000	1.500	ug/L	!ib
Zinc	A	ND	20.00	7.651	ug/L	
Aluminum	R	[79.56]	100.0	28.42	ug/L	!ib
Calcium	R	ND	200.0	27.82	ug/L	
Iron	R	[64.98]	100.0	39.10	ug/L	!ib
Magnesium	R	ND	200.0	94.82	ug/L	
Potassium	R	ND	500.0	177.3	ug/L	
Sodium	R	[127.9]	500.0	70.18	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3356249	3414974	1.75

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 96134643074 File : 040306ar.txt Time : 03-APR-2006 16:42
Cal : 96134643001 Caldate: 03-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	4.325	ug/L	
Arsenic	A	ND	5.000	0.8008	ug/L	
Barium	A	ND	5.000	1.593	ug/L	
Beryllium	A	ND	2.000	0.6761	ug/L	
Boron	A	ND	100.0	12.29	ug/L	
Cadmium	A	ND	5.000	1.677	ug/L	
Chromium	A	ND	5.000	1.753	ug/L	
Cobalt	A	ND	5.000	1.505	ug/L	
Copper	A	ND	5.000	2.012	ug/L	
Lead	A	[0.7018]	3.000	0.4605	ug/L	!ib
Manganese	A	ND	5.000	1.786	ug/L	
Molybdenum	A	ND	5.000	1.640	ug/L	
Nickel	A	ND	5.000	2.044	ug/L	
Selenium	A	ND	5.000	2.560	ug/L	
Silver	A	ND	5.000	1.169	ug/L	
Thallium	A	[1.987]	5.000	1.633	ug/L	!ib
Tin	A	ND	40.00	13.93	ug/L	
Titanium	A	ND	10.00	3.491	ug/L	
Vanadium	A	ND	5.000	1.500	ug/L	
Zinc	A	ND	20.00	7.651	ug/L	
Aluminum	R	ND	100.0	28.42	ug/L	
Calcium	R	ND	200.0	27.82	ug/L	
Iron	R	ND	100.0	39.10	ug/L	
Magnesium	R	ND	200.0	94.82	ug/L	
Potassium	R	ND	500.0	177.3	ug/L	
Sodium	R	ND	500.0	70.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3356249	3571174	6.40

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09
Seqnum : 96134643085 File : 040306ar.txt
Cal : 96134643001 Caldate: 03-APR-2006
IDF : 1.0
Time : 03-APR-2006 18:16

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	4.325	ug/L	
Arsenic	A	[1.286]	5.000	0.8008	ug/L	!ib
Barium	A	ND	5.000	1.593	ug/L	
Beryllium	A	ND	2.000	0.6761	ug/L	
Boron	A	ND	100.0	12.29	ug/L	
Cadmium	A	ND	5.000	1.677	ug/L	
Chromium	A	ND	5.000	1.753	ug/L	
Cobalt	A	ND	5.000	1.505	ug/L	
Copper	A	ND	5.000	2.012	ug/L	
Lead	A	ND	3.000	0.4605	ug/L	
Manganese	A	ND	5.000	1.786	ug/L	
Molybdenum	A	ND	5.000	1.640	ug/L	
Nickel	A	ND	5.000	2.044	ug/L	
Selenium	A	[2.848]	5.000	2.560	ug/L	!ib
Silver	A	ND	5.000	1.169	ug/L	
Thallium	A	ND	5.000	1.633	ug/L	
Tin	A	ND	40.00	13.93	ug/L	
Titanium	A	ND	10.00	3.491	ug/L	
Vanadium	A	ND	5.000	1.500	ug/L	
Zinc	A	ND	20.00	7.651	ug/L	
Aluminum	R	ND	100.0	28.42	ug/L	
Calcium	R	ND	200.0	27.82	ug/L	
Iron	R	ND	100.0	39.10	ug/L	
Magnesium	R	ND	200.0	94.82	ug/L	
Potassium	R	ND	500.0	177.3	ug/L	
Sodium	R	ND	500.0	70.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3356249	3572690	6.45

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 96134643098 File : 040306ar.txt Time : 03-APR-2006 19:06
Cal : 96134643001 Caldate: 03-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	4.325	ug/L	
Arsenic	A	[1.808]	5.000	0.8008	ug/L	!ib
Barium	A	ND	5.000	1.593	ug/L	
Beryllium	A	ND	2.000	0.6761	ug/L	
Boron	A	ND	100.0	12.29	ug/L	
Cadmium	A	ND	5.000	1.677	ug/L	
Chromium	A	ND	5.000	1.753	ug/L	
Cobalt	A	ND	5.000	1.505	ug/L	
Copper	A	ND	5.000	2.012	ug/L	
Lead	A	ND	3.000	0.4605	ug/L	
Manganese	A	ND	5.000	1.786	ug/L	
Molybdenum	A	ND	5.000	1.640	ug/L	
Nickel	A	ND	5.000	2.044	ug/L	
Selenium	A	ND	5.000	2.560	ug/L	
Silver	A	ND	5.000	1.169	ug/L	
Thallium	A	ND	5.000	1.633	ug/L	
Tin	A	ND	40.00	13.93	ug/L	
Titanium	A	ND	10.00	3.491	ug/L	
Vanadium	A	ND	5.000	1.500	ug/L	
Zinc	A	ND	20.00	7.651	ug/L	
Aluminum	R	ND	100.0	28.42	ug/L	
Calcium	R	ND	200.0	27.82	ug/L	
Iron	R	ND	100.0	39.10	ug/L	
Magnesium	R	ND	200.0	94.82	ug/L	
Potassium	R	ND	500.0	177.3	ug/L	
Sodium	R	ND	500.0	70.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3356249	3595997	7.14

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 96134643113 File : 040306ar.txt Time : 03-APR-2006 20:00
Cal : 96134643001 Caldate: 03-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	4.325	ug/L	
Arsenic	A	[1.121]	5.000	0.8008	ug/L	!ib
Barium	A	ND	5.000	1.593	ug/L	
Beryllium	A	ND	2.000	0.6761	ug/L	
Boron	A	ND	100.0	12.29	ug/L	
Cadmium	A	ND	5.000	1.677	ug/L	
Chromium	A	ND	5.000	1.753	ug/L	
Cobalt	A	ND	5.000	1.505	ug/L	
Copper	A	ND	5.000	2.012	ug/L	
Lead	A	ND	3.000	0.4605	ug/L	
Manganese	A	ND	5.000	1.786	ug/L	
Molybdenum	A	ND	5.000	1.640	ug/L	
Nickel	A	ND	5.000	2.044	ug/L	
Selenium	A	[3.264]	5.000	2.560	ug/L	!ib
Silver	A	ND	5.000	1.169	ug/L	
Thallium	A	ND	5.000	1.633	ug/L	
Tin	A	ND	40.00	13.93	ug/L	
Titanium	A	ND	10.00	3.491	ug/L	
Vanadium	A	ND	5.000	1.500	ug/L	
Zinc	A	ND	20.00	7.651	ug/L	
Aluminum	R	ND	100.0	28.42	ug/L	
Calcium	R	ND	200.0	27.82	ug/L	
Iron	R	ND	100.0	39.10	ug/L	
Magnesium	R	ND	200.0	94.82	ug/L	
Potassium	R	ND	500.0	177.3	ug/L	
Sodium	R	ND	500.0	70.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3356249	3605753	7.43

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 96134643127 File : 040306ar.txt Time : 03-APR-2006 20:53
Cal : 96134643001 Caldate: 03-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	4.325	ug/L	
Arsenic	A	ND	5.000	0.8008	ug/L	
Barium	A	ND	5.000	1.593	ug/L	
Beryllium	A	ND	2.000	0.6761	ug/L	
Boron	A	ND	100.0	12.29	ug/L	
Cadmium	A	ND	5.000	1.677	ug/L	
Chromium	A	ND	5.000	1.753	ug/L	
Cobalt	A	ND	5.000	1.505	ug/L	
Copper	A	ND	5.000	2.012	ug/L	
Lead	A	ND	3.000	0.4605	ug/L	
Manganese	A	ND	5.000	1.786	ug/L	
Molybdenum	A	ND	5.000	1.640	ug/L	
Nickel	A	ND	5.000	2.044	ug/L	
Selenium	A	ND	5.000	2.560	ug/L	
Silver	A	ND	5.000	1.169	ug/L	
Thallium	A	ND	5.000	1.633	ug/L	
Tin	A	ND	40.00	13.93	ug/L	
Titanium	A	ND	10.00	3.491	ug/L	
Vanadium	A	ND	5.000	1.500	ug/L	
Zinc	A	ND	20.00	7.651	ug/L	
Aluminum	R	ND	100.0	28.42	ug/L	
Calcium	R	ND	200.0	27.82	ug/L	
Iron	R	ND	100.0	39.10	ug/L	
Magnesium	R	ND	200.0	94.82	ug/L	
Potassium	R	ND	500.0	177.3	ug/L	
Sodium	R	ND	500.0	70.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3356249	3587468	6.89

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 96134643138 File : 040306ar.txt Time : 03-APR-2006 21:33
Cal : 96134643001 Caldate: 03-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	4.325	ug/L	
Arsenic	A	[1.281]	5.000	0.8008	ug/L	!ib
Barium	A	ND	5.000	1.593	ug/L	
Beryllium	A	ND	2.000	0.6761	ug/L	
Boron	A	ND	100.0	12.29	ug/L	
Cadmium	A	ND	5.000	1.677	ug/L	
Chromium	A	ND	5.000	1.753	ug/L	
Cobalt	A	ND	5.000	1.505	ug/L	
Copper	A	ND	5.000	2.012	ug/L	
Lead	A	ND	3.000	0.4605	ug/L	
Manganese	A	ND	5.000	1.786	ug/L	
Molybdenum	A	ND	5.000	1.640	ug/L	
Nickel	A	ND	5.000	2.044	ug/L	
Selenium	A	[2.808]	5.000	2.560	ug/L	!ib
Silver	A	ND	5.000	1.169	ug/L	
Thallium	A	ND	5.000	1.633	ug/L	
Tin	A	ND	40.00	13.93	ug/L	
Titanium	A	ND	10.00	3.491	ug/L	
Vanadium	A	ND	5.000	1.500	ug/L	
Zinc	A	ND	20.00	7.651	ug/L	
Aluminum	R	ND	100.0	28.42	ug/L	
Calcium	R	ND	200.0	27.82	ug/L	
Iron	R	ND	100.0	39.10	ug/L	
Magnesium	R	ND	200.0	94.82	ug/L	
Potassium	R	ND	500.0	177.3	ug/L	
Sodium	R	ND	500.0	70.18	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3356249	3558322	6.02

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET09
Seqnum : 96134643009 File : 040306ar.txt IDF : 1.0
Cal : 96134643001 Caldate: 03-APR-2006 Time : 03-APR-2006 12:35
Standards: S2555

Analyte	Ch	Quant	RL	Units	Flags
Antimony	A	[3.313]	5.000	ug/L	
Arsenic	A	[1.441]	5.000	ug/L	
Barium	A	[-2.629]	5.000	ug/L	
Beryllium	A	[-1.043]	2.000	ug/L	
Boron	A	[-6.192]	100.0	ug/L	
Cadmium	A	[-4.795]	5.000	ug/L	
Cobalt	A	[2.211]	5.000	ug/L	
Lead	A	[-0.6044]	3.000	ug/L	
Molybdenum	A	[-3.661]	5.000	ug/L	
Selenium	A	[4.861]	5.000	ug/L	
Silver	A	[-1.821]	5.000	ug/L	
Thallium	A	[0.1266]	5.000	ug/L	
Tin	A	[7.702]	40.00	ug/L	
Zinc	A	[9.314]	20.00	ug/L	
Potassium	R	[210.3]	500.0	ug/L	
Sodium	R	[2.857]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19400	ug/L	97
Copper	A	20000	21010	ug/L	105
Manganese	A	20000	19270	ug/L	96
Nickel	A	20000	18150	ug/L	91
Titanium	A	20000	19900	ug/L	100
Vanadium	A	20000	20230	ug/L	101
Aluminum	R	500000	513800	ug/L	103
Calcium	R	500000	508200	ug/L	102
Iron	R	200000	198300	ug/L	99
Magnesium	R	500000	522900	ug/L	105

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3356249	2926871	-12.79

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 96134643010 File : 040306ar.txt Time : 03-APR-2006 12:54
Cal : 96134643001 Caldate: 03-APR-2006
Standards: S2570

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	515.6	ug/L	3	20	
Arsenic	A	500.0	526.6	ug/L	5	20	
Barium	A	500.0	524.5	ug/L	5	20	
Beryllium	A	500.0	521.0	ug/L	4	20	
Cadmium	A	1000	993.2	ug/L	-1	20	
Chromium	A	500.0	508.7	ug/L	2	20	
Cobalt	A	500.0	468.2	ug/L	-6	20	
Copper	A	500.0	511.8	ug/L	2	20	
Lead	A	1000	1047	ug/L	5	20	
Manganese	A	500.0	526.7	ug/L	5	20	
Molybdenum	A	500.0	510.7	ug/L	2	20	
Nickel	A	1000	929.1	ug/L	-7	20	
Selenium	A	500.0	556.2	ug/L	11	20	
Silver	A	1000	1084	ug/L	8	20	
Thallium	A	500.0	459.1	ug/L	-8	20	
Titanium	A	20000	19850	ug/L	-1		
Vanadium	A	500.0	524.4	ug/L	5	20	
Zinc	A	1000	968.1	ug/L	-3	20	
Aluminum	R	500000	513900	ug/L	3		
Calcium	R	500000	517000	ug/L	3		
Iron	R	200000	202300	ug/L	1		
Magnesium	R	500000	528700	ug/L	6		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3356249	2903872	-13.48

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09
Seqnum : 96134643029
Cal : 96134643001
Standards: S2570

File : 040306ar.txt
Caldate: 03-APR-2006

IDF : 1.0
Time : 03-APR-2006 14:01

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	517.1	ug/L	3	20	
Arsenic	A	500.0	530.0	ug/L	6	20	
Barium	A	500.0	522.4	ug/L	4	20	
Beryllium	A	500.0	524.4	ug/L	5	20	
Cadmium	A	1000	997.9	ug/L	0	20	
Chromium	A	500.0	504.0	ug/L	1	20	
Cobalt	A	500.0	466.5	ug/L	-7	20	
Copper	A	500.0	514.1	ug/L	3	20	
Lead	A	1000	1037	ug/L	4	20	
Manganese	A	500.0	528.4	ug/L	6	20	
Molybdenum	A	500.0	508.0	ug/L	2	20	
Nickel	A	1000	926.1	ug/L	-7	20	
Selenium	A	500.0	554.3	ug/L	11	20	
Silver	A	1000	1089	ug/L	9	20	
Thallium	A	500.0	451.9	ug/L	-10	20	
Titanium	A	20000	19640	ug/L	-2		
Vanadium	A	500.0	521.7	ug/L	4	20	
Zinc	A	1000	970.9	ug/L	-3	20	
Aluminum	R	500000	498000	ug/L	0		
Calcium	R	500000	502500	ug/L	0		
Iron	R	200000	193700	ug/L	-3		
Magnesium	R	500000	516400	ug/L	3		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3356249	2917052	-13.09

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 96134643070 File : 040306ar.txt Time : 03-APR-2006 16:29
Cal : 96134643001 Caldate: 03-APR-2006
Standards: S2570

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	516.7	ug/L	3	20	
Arsenic	A	500.0	511.2	ug/L	2	20	
Barium	A	500.0	517.9	ug/L	4	20	
Beryllium	A	500.0	516.7	ug/L	3	20	
Cadmium	A	1000	975.6	ug/L	-2	20	
Chromium	A	500.0	500.3	ug/L	0	20	
Cobalt	A	500.0	461.5	ug/L	-8	20	
Copper	A	500.0	505.8	ug/L	1	20	
Lead	A	1000	985.6	ug/L	-1	20	
Manganese	A	500.0	516.1	ug/L	3	20	
Molybdenum	A	500.0	505.2	ug/L	1	20	
Nickel	A	1000	913.3	ug/L	-9	20	
Selenium	A	500.0	535.4	ug/L	7	20	
Silver	A	1000	1066	ug/L	7	20	
Thallium	A	500.0	481.3	ug/L	-4	20	
Titanium	A	20000	19480	ug/L	-3		
Vanadium	A	500.0	518.4	ug/L	4	20	
Zinc	A	1000	952.3	ug/L	-5	20	
Aluminum	R	500000	502500	ug/L	1		
Calcium	R	500000	492600	ug/L	-1		
Iron	R	200000	186100	ug/L	-7		
Magnesium	R	500000	504900	ug/L	1		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3356249	3011532	-10.27

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET09 IDF : 1.0
Seqnum : 96134643134 File : 040306ar.txt Time : 03-APR-2006 21:20
Cal : 96134643001 Caldate: 03-APR-2006
Standards: S2570

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	521.8	ug/L	4	20	
Arsenic	A	500.0	524.0	ug/L	5	20	
Barium	A	500.0	518.0	ug/L	4	20	
Beryllium	A	500.0	517.5	ug/L	3	20	
Cadmium	A	1000	976.9	ug/L	-2	20	
Chromium	A	500.0	501.6	ug/L	0	20	
Cobalt	A	500.0	464.3	ug/L	-7	20	
Copper	A	500.0	507.7	ug/L	2	20	
Lead	A	1000	991.8	ug/L	-1	20	
Manganese	A	500.0	514.3	ug/L	3	20	
Molybdenum	A	500.0	505.1	ug/L	1	20	
Nickel	A	1000	914.5	ug/L	-9	20	
Selenium	A	500.0	532.3	ug/L	6	20	
Silver	A	1000	1069	ug/L	7	20	
Thallium	A	500.0	479.0	ug/L	-4	20	
Titanium	A	20000	19360	ug/L	-3		
Vanadium	A	500.0	518.1	ug/L	4	20	
Zinc	A	1000	961.0	ug/L	-4	20	
Aluminum	R	500000	509800	ug/L	2		
Calcium	R	500000	489600	ug/L	-2		
Iron	R	200000	185000	ug/L	-8		
Magnesium	R	500000	502100	ug/L	0		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	3356249	3018167	-10.07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 96134643 Instrument: MET09 PE ICP MET09 Begun: 03-APR-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	040306ar	ICALBLK				03-APR-2006 12:03	1.0	1.0					
002	040306ar	ICAL	CRIM08			03-APR-2006 12:07	1.0	1.0				1	
003	040306ar	ICAL	CS100			03-APR-2006 12:10	1.0	1.0				2	
004	040306ar	ICAL	CS1K			03-APR-2006 12:13	1.0	1.0				3	
005	040306ar	ICAL	CS10K			03-APR-2006 12:15	1.0	1.0				4	
006	040306ar	ICAL	CS100K			03-APR-2006 12:18	1.0	1.0				5	
007	040306ar	ICV				03-APR-2006 12:21	1.0	1.0			5000	6	
008	040306ar	ICB				03-APR-2006 12:23	1.0	1.0			5000		
009	040306ar	ICSA				03-APR-2006 12:35	1.0	1.0			5000	7	10:MG=522903
010	040306ar	ICSAB				03-APR-2006 12:54	1.0	1.0			5000	8	5:MG=528699
011	040306ar	BLANK	QC334076	111948	Water	03-APR-2006 13:01	1.0	1.0			5000		
012	040306ar	BS	QC334077	111948	Water	03-APR-2006 13:05	1.0	1.0			5000		
013	040306ar	BSD	QC334078	111948	Water	03-APR-2006 13:08	1.0	1.0			5000		
014	040306ar	MSS	185892-004	111948	Water	03-APR-2006 13:11	1.0	1.0	2		5000		1:NA=106596
015	040306ar	MS	QC334079	111948	Water	03-APR-2006 13:14	1.0	1.0		1	5000		1:NA=121822
016	040306ar	MSD	QC334080	111948	Water	03-APR-2006 13:17	1.0	1.0			5000		2:NA=123413
017	040306ar	PDS	QC334081	111948	Water	03-APR-2006 13:20	1.0	1.0			5000	9 10	2:NA=130688
018	040306ar	SAMPLE	185864-001	111948	Water	03-APR-2006 13:23	1.0	1.0			5000		1:NA=139293
019	040306ar	X	RINSE			03-APR-2006 13:26	1.0						
020	040306ar	X				03-APR-2006 13:30	1.0	1.0			5000	11	
021	040306ar	X	FLUSH			03-APR-2006 13:33	1.0						
022	040306ar	CCV				03-APR-2006 13:36	1.0	1.0			5000	11	
023	040306ar	X	FLUSH			03-APR-2006 13:39	1.0						
024	040306ar	CCB				03-APR-2006 13:43	1.0	1.0			5000		
025	040306ar	SAMPLE	185933-001	111948	Water	03-APR-2006 13:47	1.0	1.0	1		5000		
026	040306ar	SAMPLE	185934-003	111948	Water	03-APR-2006 13:50	1.0	1.0			5000		3:K=1701666
027	040306ar	MSS	185892-004	111948	Water	03-APR-2006 13:55	1.0	1.0	2		5000		1:NA=105158
028	040306ar	SAMPLE	185933-001	111948	Water	03-APR-2006 13:58	1.0	1.0			5000		
029	040306ar	ICSAB				03-APR-2006 14:01	1.0	1.0			5000	8	5:MG=516445
030	040306ar	X	RINSE			03-APR-2006 14:03	1.0						

Stds used: 1=S2544 2=S2568 3=S2567 4=S2569 5=S2556 6=S3049 7=S2555 8=S2570 9=S1792 10=S1793 11=S3050 12=S2309
Flags used: spk=5% spike rule

Analyst: KCarlyn Date: 4/3/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 96134643 Instrument: MET09 PE ICP MET09 Begun: 03-APR-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
031	040306ar	X				03-APR-2006 14:07	1.0						
032	040306ar	CCV				03-APR-2006 14:11	1.0	1.0			5000	11	
033	040306ar	X	FLUSH			03-APR-2006 14:14	1.0					11	
034	040306ar	X				03-APR-2006 14:18	1.0						
035	040306ar	CCB				03-APR-2006 14:24	1.0	1.0			5000		
036	040306ar	BLANK	QC333127	111706	Water	03-APR-2006 14:28	1.0	1.0			5000		
037	040306ar	BS	QC333128	111706	Water	03-APR-2006 14:32	1.0	1.0	1		5000		
038	040306ar	BSD	QC333129	111706	Water	03-APR-2006 14:35	1.0	1.0	2	2	5000	spk	
039	040306ar	MSS	185668-001	111706	Water	03-APR-2006 14:38	1.0	1.0			5000	spk	
040	040306ar	MS	QC333130	111706	Water	03-APR-2006 14:41	1.0	1.0			5000		
041	040306ar	MSD	QC333131	111706	Water	03-APR-2006 14:44	1.0	1.0		1	5000		
042	040306ar	SAMPLE	185668-002	111706	Water	03-APR-2006 14:47	1.0	1.0			5000	spk	
043	040306ar	SAMPLE	185668-003	111706	Water	03-APR-2006 14:50	1.0	1.0			5000	spk	1:NA=230862
044	040306ar	X	RINSE			03-APR-2006 14:53	1.0						
045	040306ar	CCV				03-APR-2006 14:57	1.0	1.0			5000	11	
046	040306ar	X	FLUSH			03-APR-2006 15:00	1.0						
047	040306ar	CCB				03-APR-2006 15:04	1.0	1.0			5000		
048	040306ar	SAMPLE	185668-004	111706	Water	03-APR-2006 15:08	1.0	1.0	1		5000	spk	2:CA=228278
049	040306ar	SAMPLE	185668-005	111706	Water	03-APR-2006 15:11	1.0	1.0			5000	spk	
050	040306ar	SAMPLE	185668-006	111706	Water	03-APR-2006 15:14	1.0	1.0			5000	spk	
051	040306ar	SAMPLE	185668-007	111706	Water	03-APR-2006 15:17	1.0	1.0			5000	spk	
052	040306ar	SAMPLE	185668-008	111706	Water	03-APR-2006 15:20	1.0	1.0			5000	spk	
053	040306ar	SAMPLE	185668-009	111706	Water	03-APR-2006 15:23	1.0	1.0			5000	spk	
054	040306ar	SAMPLE	185668-010	111706	Water	03-APR-2006 15:26	1.0	1.0			5000	spk	
055	040306ar	SAMPLE	185668-001	111706	Filtra	03-APR-2006 15:29	1.0	1.0			5000		
056	040306ar	SAMPLE	185668-002	111706	Filtra	03-APR-2006 15:33	1.0	1.0			5000		
057	040306ar	SAMPLE	185668-003	111706	Filtra	03-APR-2006 15:37	1.0	1.0			5000		1:NA=204164
058	040306ar	X	RINSE			03-APR-2006 15:41	1.0						
059	040306ar	CCV				03-APR-2006 15:45	1.0	1.0			5000	11	
060	040306ar	X	FLUSH			03-APR-2006 15:47	1.0						

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Stds used: 1=S2544 2=S2568 3=S2567 4=S2569 5=S2556 6=S3049 7=S2555 8=S2570 9=S1792 10=S1793 11=S3050 12=S2309
Flags used: spk=5% spike rule

Analyst: K Carlyn Date: 4/3/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 96134643 Instrument: MET09 PE ICP MET09 Begun: 03-APR-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
061	040306ar	CCB				03-APR-2006 15:51	1.0	1.0	1		5000		
062	040306ar	X				03-APR-2006 15:53	1.0						
063	040306ar	SAMPLE	185668-004	111706	Filtra	03-APR-2006 15:57	1.0	1.0			5000		2:CA=204455
064	040306ar	SAMPLE	185668-005	111706	Filtra	03-APR-2006 16:01	1.0	1.0			5000		
065	040306ar	SAMPLE	185668-006	111706	Filtra	03-APR-2006 16:11	1.0	1.0			5000		
066	040306ar	SAMPLE	185668-007	111706	Filtra	03-APR-2006 16:14	1.0	1.0			5000		
067	040306ar	SAMPLE	185668-008	111706	Filtra	03-APR-2006 16:17	1.0	1.0			5000		
068	040306ar	SAMPLE	185668-009	111706	Filtra	03-APR-2006 16:21	1.0	1.0			5000		
069	040306ar	SAMPLE	185668-010	111706	Filtra	03-APR-2006 16:25	1.0	1.0			5000		
070	040306ar	ICSAB				03-APR-2006 16:29	1.0	1.0			5000	8	5:MG=504938
071	040306ar	X	RINSE			03-APR-2006 16:32	1.0						
072	040306ar	CCV				03-APR-2006 16:36	1.0	1.0			5000	11	
073	040306ar	X	FLUSH			03-APR-2006 16:39	1.0						
074	040306ar	CCB				03-APR-2006 16:42	1.0	1.0			5000		
075	040306ar	SAMPLE	185668-004	111706	Water	03-APR-2006 17:37	1.0	1.0			5000	spk	
076	040306ar	X	rinse			03-APR-2006 17:40	1.0						
077	040306ar	BLANK	QC333522	111808	Filtra	03-APR-2006 17:44	1.0	1.0			5000		
078	040306ar	BS	QC333523	111808	Filtra	03-APR-2006 17:48	1.0	1.0	1	1	5000		
079	040306ar	BS	QC333523	111808	Filtra	03-APR-2006 17:51	1.0	1.0			5000		
080	040306ar	X	no sample	111808	Filtra	03-APR-2006 17:54	1.0						
081	040306ar	BSD	QC333524	111808	Filtra	03-APR-2006 18:01	1.0	1.0			5000		
082	040306ar	X	RINSE			03-APR-2006 18:05	1.0						
083	040306ar	CCV				03-APR-2006 18:09	1.0	1.0			5000	11	
084	040306ar	X	FLUSH			03-APR-2006 18:12	1.0						
085	040306ar	CCB				03-APR-2006 18:16	1.0	1.0			5000		
086	040306ar	BSD	QC333524	111808	Filtra	03-APR-2006 18:19	1.0	1.0			5000		
087	040306ar	MSS	185622-020	111808	Filtra	03-APR-2006 18:23	1.0	1.0	1		5000		1:CA=168056
088	040306ar	SER	QC333527	111808	Filtra	03-APR-2006 18:27	5.0	1.0		1	5000		
089	040306ar	MSS	185622-020	111808	Filtra	03-APR-2006 18:35	5.0	1.0	1		5000		
090	040306ar	SER	QC333527	111808	Filtra	03-APR-2006 18:39	25.0	1.0			5000		

534

Stds used: 1=S2544 2=S2568 3=S2567 4=S2569 5=S2556 6=S3049 7=S2555 8=S2570 9=S1792 10=S1793 11=S3050 12=S2309
Flags used: spk=5% spike rule

Analyst: [signature] Date: 4/3/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 96134643 Instrument: MET09 PE ICP MET09 Begun: 03-APR-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
091	040306ar	MS	QC333525	111808	Filtra	03-APR-2006 18:43	1.0	1.0	1	1	5000		1:CA=160193
092	040306ar	MSD	QC333526	111808	Filtra	03-APR-2006 18:46	1.0	1.0			5000		1:CA=177446
093	040306ar	PDS	QC333528	111808	Filtra	03-APR-2006 18:49	1.0	1.0	1		5000	12	1:CA=172564
094	040306ar	SAMPLE	185622-021	111808	Filtra	03-APR-2006 18:52	1.0	1.0	3		5000		3:MG=196546
095	040306ar	X	RINSE			03-APR-2006 18:56	1.0						
096	040306ar	CCV				03-APR-2006 19:00	1.0	1.0			5000	11	
097	040306ar	X	FLUSH			03-APR-2006 19:03	1.0						
098	040306ar	CCB				03-APR-2006 19:06	1.0	1.0			5000		
099	040306ar	SAMPLE	185622-022	111808	Filtra	03-APR-2006 19:10	1.0	1.0			5000		
100	040306ar	SAMPLE	185622-021	111808	Filtra	03-APR-2006 19:14	5.0	1.0			5000		
101	040306ar	PDS	QC333528	111808	Filtra	03-APR-2006 19:18	1.0	1.0		1	5000	12	1:CA=163237
102	040306ar	MS	QC333525	111808	Filtra	03-APR-2006 19:21	1.0	1.0		1	5000		1:CA=162884
103	040306ar	MSD	QC333526	111808	Filtra	03-APR-2006 19:24	1.0	1.0		1	5000		1:CA=166510
104	040306ar	SAMPLE	185622-023	111808	Filtra	03-APR-2006 19:27	1.0	1.0			5000		
105	040306ar	SAMPLE	185622-024	111808	Filtra	03-APR-2006 19:31	1.0	1.0	3		5000		3:NA=234119
106	040306ar	SAMPLE	185622-025	111808	Filtra	03-APR-2006 19:35	1.0	1.0	2		5000		2:NA=254091
107	040306ar	SAMPLE	185622-026	111808	Filtra	03-APR-2006 19:40	1.0	1.0	4		5000		4:NA=393733
108	040306ar	SAMPLE	185622-027	111808	Filtra	03-APR-2006 19:43	1.0	1.0			5000		
109	040306ar	X	RINSE			03-APR-2006 19:47	1.0						
110	040306ar	X				03-APR-2006 19:50	1.0					11	
111	040306ar	CCV				03-APR-2006 19:53	1.0	1.0			5000	11	
112	040306ar	X	FLUSH			03-APR-2006 19:56	1.0						
113	040306ar	CCB				03-APR-2006 20:00	1.0	1.0			5000		
114	040306ar	SAMPLE	185622-028	111808	Filtra	03-APR-2006 20:04	1.0	1.0			5000		
115	040306ar	SAMPLE	185622-029	111808	Filtra	03-APR-2006 20:08	1.0	1.0	1		5000		1:NA=167192
116	040306ar	SAMPLE	185622-030	111808	Filtra	03-APR-2006 20:12	1.0	1.0			5000		
117	040306ar	SAMPLE	185622-031	111808	Filtra	03-APR-2006 20:16	1.0	1.0			5000		
118	040306ar	SAMPLE	185622-033	111808	Filtra	03-APR-2006 20:20	1.0	1.0	1		5000		1:NA=134676
119	040306ar	SAMPLE	185622-034	111808	Filtra	03-APR-2006 20:23	1.0	1.0	1		5000		1:NA=134657
120	040306ar	SAMPLE	185622-035	111808	Filtra	03-APR-2006 20:27	1.0	1.0			5000		

Stds used: 1=S2544 2=S2568 3=S2567 4=S2569 5=S2556 6=S3049 7=S2555 8=S2570 9=S1792 10=S1793 11=S3050 12=S2309
Flags used: spk=5% spike rule

Analyst: KCarlson Date: 4/3/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 96134643 Instrument: MET09 PE ICP MET09 Begun: 03-APR-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
121	040306ar	SAMPLE	185622-036	111808	Filtra	03-APR-2006 20:31	1.0	1.0	5000		
122	040306ar	SAMPLE	185622-037	111808	Filtra	03-APR-2006 20:35	1.0	1.0	5000		
123	040306ar	SAMPLE	185622-018	111808	Water	03-APR-2006 20:39	1.0	1.0	5000		
124	040306ar	X	RINSE			03-APR-2006 20:42	1.0				
125	040306ar	CCV				03-APR-2006 20:46	1.0	1.0	5000	11	
126	040306ar	X	FLUSH			03-APR-2006 20:49	1.0				
127	040306ar	CCB				03-APR-2006 20:53	1.0	1.0	5000		
128	040306ar	SAMPLE	185622-024	111808	Filtra	03-APR-2006 20:57	5.0				
129	040306ar	SAMPLE	185622-025	111808	Filtra	03-APR-2006 21:01	5.0				
130	040306ar	SAMPLE	185622-026	111808	Filtra	03-APR-2006 21:05	5.0				
131	040306ar	SAMPLE	185622-029	111808	Filtra	03-APR-2006 21:08	5.0				
132	040306ar	SAMPLE	185622-033	111808	Filtra	03-APR-2006 21:12	5.0				
133	040306ar	SAMPLE	185622-034	111808	Filtra	03-APR-2006 21:16	5.0				
134	040306ar	ICSAB				03-APR-2006 21:20	1.0			8	
135	040306ar	X	RINSE			03-APR-2006 21:23	1.0				
136	040306ar	CCV				03-APR-2006 21:26	1.0			11	536
137	040306ar	X	FLUSH			03-APR-2006 21:29	1.0				
138	040306ar	CCB				03-APR-2006 21:33	1.0				

Stds used: 1=S2544 2=S2568 3=S2567 4=S2569 5=S2556 6=S3049 7=S2555 8=S2570 9=S1792 10=S1793 11=S3050 12=S2309
Flags used: spk=5% spike rule

Analyst: Carlyn Date: 4/3/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET08
Calnum : 86134731001
Units : ug/L

Date : 03-APR-2006 13:31
X Axis : R

Reviewer: ---
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	040306ar.txt	86134731002	CRIM08	03-APR-2006 13:35	S2544
L2	040306ar.txt	86134731003	CS100	03-APR-2006 13:39	S2568
L3	040306ar.txt	86134731004	CS1K	03-APR-2006 13:42	S2567
L4	040306ar.txt	86134731005	CS10K	03-APR-2006 13:45	S2569
L5	040306ar.txt	86134731006	CS100K	03-APR-2006 13:47	S2556

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	34.246	45.559	44.877	44.696		LOR0	0.00000	0.02237		42.345	1.000	0.995	
Arsenic	A	20.257	21.907	21.316	21.014		LOR0	0.00000	0.04758		21.124	1.000	0.995	
Barium	A	405.48	396.92	392.68	385.16		LOR0	0.00000	0.00260		395.06	1.000	0.995	
Beryllium	A	3766.0	3798.4	3736.5			LOR0	0.00000	2.68E-4		3767.0	1.000	0.995	
Boron	A	162.17		158.35	162.78		LOR0	0.00000	0.00614		161.10	1.000	0.995	
Cadmium	A	342.43	345.80	343.06	328.93		LOR0	0.00000	0.00304		340.05	1.000	0.995	
Chromium	A	123.13	104.46	101.08	99.985		LOR0	0.00000	0.01000		107.16	1.000	0.995	
Cobalt	A	113.37	114.99	113.95	113.05		LOR0	0.00000	0.00885		113.84	1.000	0.995	
Copper	A	696.86	709.73	727.87	735.20		LOR0	0.00000	0.00136		717.41	1.000	0.995	537
Lead	A	44.445	52.852	52.020	50.451		LOR0	0.00000	0.01982		49.942	1.000	0.995	
Manganese	A	911.65	918.62	914.90	877.23		LOR0	0.00000	0.00114		905.60	1.000	0.995	
Molybdenum	A	46.694	46.962	45.888	44.751		LOR0	0.00000	0.02234		46.074	1.000	0.995	
Nickel	A	58.884	63.833	63.413	61.481		LOR0	0.00000	0.01626		61.903	1.000	0.995	
Selenium	A	17.595	21.732	20.821	20.769		LOR0	0.00000	0.04815		20.229	1.000	0.995	
Silver	A	442.15	472.69	470.14	465.83		LOR0	0.00000	0.00214		462.71	1.000	0.995	
Thallium	A	20.556	21.889	21.741	21.452		LOR0	0.00000	0.04661		21.409	1.000	0.995	
Tin	A	20.778	21.718	21.674	21.504		LOR0	0.00000	0.04650		21.419	1.000	0.995	
Titanium	A	1078.7	1111.5	1094.1	1069.5		LOR0	0.00000	9.35E-4		1088.4	1.000	0.995	
Vanadium	A	141.60	140.66	137.43	139.11		LOR0	0.00000	0.00719		139.70	1.000	0.995	
Zinc	A	120.25	115.07	114.55	113.12		LOR0	0.00000	0.00884		115.75	1.000	0.995	
Aluminum	R	1.2357		1.3820	1.4311	1.4968	LOR0	0.00000	0.66839		1.3864	1.000	0.995	
Calcium	R	11.325		11.169	11.170	11.299	LOR0	0.00000	0.08851		11.241	1.000	0.995	
Iron	R	8.9938		8.7294	8.5467	8.4221	LOR0	0.00000	0.11872		8.6730	1.000	0.995	
Magnesium	R	1.9237		1.8730	1.8355	1.8331	LOR0	0.00000	0.54550		1.8663	1.000	0.995	
Potassium	R	4.1381		4.7766	4.6692	4.7664	LOR0	0.00000	0.20985		4.5876	1.000	0.995	
Sodium	R	9.9823		9.7339	9.6024	9.5735	LOR0	0.00000	0.10445		9.7231	1.000	0.995	

LOR0=Linear regression forced thru origin, including 0,0 point

Instrument amount = a0 + response * a1 + response^2 * a2

Reprocessing Begun
Logged In Analyst: Curtis and Tompkins Technique: ICP Continuous

Results Data Set (original): 040306a
Results Library (original): C:\pe\Curtis and Tompkins\Results\Results.mdb
Results Data Set (reprocessed): 040306ar
Results Library (reprocessed): C:\pe\Curtis and Tompkins\Results\Results.mdb

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 4/3/2006 1:31:34 PM
Data Type: Reprocessed on 4/3/2006 2:17:54 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	133.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	-1845.3	132.15	7.16%	[0.00]	ug/L
Al 308.215 R	151.3	22.75	15.04%	[0.00]	ug/L
As 188.979	-147.1	14.89	10.13%	[0.00]	ug/L
B 249.677	309.8	27.82	8.98%	[0.00]	ug/L
Ba 233.527	-296.3	3.92	1.32%	[0.00]	ug/L
Be 313.107	632.5	174.27	27.55%	[0.00]	ug/L
Ca 315.887 R	659.9	19.36	2.93%	[0.00]	ug/L
Cd 214.440	15.6	8.79	56.26%	[0.00]	ug/L
Co 228.616	-168.3	19.75	11.73%	[0.00]	ug/L
Cr 267.716	151.4	17.06	11.27%	[0.00]	ug/L
Cu 324.752	4985.3	153.99	3.09%	[0.00]	ug/L
Fe 238.204 R	152.8	4.93	3.23%	[0.00]	ug/L
K 766.490 R	-4040.1	220.21	5.45%	[0.00]	ug/L
Mg 279.077 R	-132.9	2.22	1.67%	[0.00]	ug/L
Mn 257.610	1670.2	22.44	1.34%	[0.00]	ug/L
Mo 202.031	-2.5	4.91	193.78%	[0.00]	ug/L
Na 589.592 R	1042.1	103.58	9.94%	[0.00]	ug/L
Ni 231.604	354.1	7.76	2.19%	[0.00]	ug/L
Pb 220.353	83.3	32.39	38.87%	[0.00]	ug/L
Sb 206.836	362.9	37.46	10.32%	[0.00]	ug/L
Se 196.026	-9.5	18.48	194.76%	[0.00]	ug/L
Ti 334.940 R	580.2	111.15	19.16%	[0.00]	ug/L
Tl 190.801	21.8	9.34	42.89%	[0.00]	ug/L
V 292.402	-1116.0	2.70	0.24%	[0.00]	ug/L
Zn 206.200	-490.9	4.55	0.93%	[0.00]	ug/L
Sn 189.927	79.7	7.22	9.06%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 4/3/2006 1:35:37 PM
Data Type: Reprocessed on 4/3/2006 2:17:58 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2090870.1	26883.00	1.29%	100.0	%
Y	292036.7	4027.23	1.38%	100.0	%
Ag 328.068†	2210.8	119.49	5.40%	[5.0]	ug/L
Al 308.215 R†	123.6	2.62	2.12%	[100]	ug/L
As 188.979†	101.3	25.02	24.70%	[5.0]	ug/L
B 249.677†	16217.3	281.54	1.74%	[100]	ug/L
Ba 233.527†	2027.4	32.13	1.58%	[5.0]	ug/L
Be 313.107†	7532.0	64.22	0.85%	[2.0]	ug/L
Ca 315.887 R†	2265.0	22.82	1.01%	[200]	ug/L
Cd 214.440†	1712.1	28.10	1.64%	[5.0]	ug/L
Co 228.616†	566.8	5.98	1.05%	[5.0]	ug/L
Cr 267.716†	615.6	8.80	1.43%	[5.0]	ug/L
Cu 324.752†	3484.3	17.10	0.49%	[5.0]	ug/L
Fe 238.204 R†	899.4	13.54	1.51%	[100]	ug/L
K 766.490 R†	2069.1	115.91	5.60%	[500]	ug/L
Mg 279.077 R†	384.7	3.37	0.88%	[200]	ug/L
Mn 257.610†	4558.3	97.00	2.13%	[5.0]	ug/L
Mo 202.031†	233.5	4.29	1.84%	[5.0]	ug/L
Na 589.592 R†	4991.2	32.89	0.66%	[500]	ug/L
Ni 231.604†	294.4	22.26	7.56%	[5.0]	ug/L
Pb 220.353†	133.3	14.54	10.91%	[3.0]	ug/L
Sb 206.836†	171.2	19.59	11.44%	[5.0]	ug/L
Se 196.026†	88.0	25.33	28.79%	[5.0]	ug/L
Ti 334.940 R†	10786.5	76.98	0.71%	[10]	ug/L
Tl 190.801†	102.8	17.79	17.31%	[5.0]	ug/L
V 292.402†	708.0	9.77	1.38%	[5.0]	ug/L
Zn 206.200†	2405.0	29.26	1.22%	[20]	ug/L
Sn 189.927†	831.1	14.93	1.80%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 4/3/2006 1:39:41 PM
Data Type: Reprocessed on 4/3/2006 2:17:59 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2121358.5	19672.45	0.93%	101.5	%
Y	307945.9	3546.73	1.15%	105.4	%
Ag 328.068†	47269.5	216.37	0.46%	[100]	ug/L
As 188.979†	2190.7	8.80	0.40%	[100]	ug/L
Ba 233.527†	39691.7	65.53	0.17%	[100]	ug/L
Be 313.107†	379841.6	1840.58	0.48%	[100]	ug/L
Cd 214.440†	34580.2	58.25	0.17%	[100]	ug/L
Co 228.616†	11498.7	78.31	0.68%	[100]	ug/L
Cr 267.716†	10445.7	58.75	0.56%	[100]	ug/L
Cu 324.752†	70972.9	445.59	0.63%	[100]	ug/L
Mn 257.610†	91861.6	333.99	0.36%	[100]	ug/L
Mo 202.031†	4696.2	33.90	0.72%	[100]	ug/L
Ni 231.604†	6383.3	45.37	0.71%	[100]	ug/L
Pb 220.353†	5285.2	60.94	1.15%	[100]	ug/L
Sb 206.836†	4555.9	21.05	0.46%	[100]	ug/L
Se 196.026†	2173.2	37.24	1.71%	[100]	ug/L
Ti 334.940 R†	111150.1	520.81	0.47%	[100]	ug/L
Tl 190.801†	2188.9	38.34	1.75%	[100]	ug/L
V 292.402†	14065.9	64.41	0.46%	[100]	ug/L
Zn 206.200†	11507.2	75.44	0.66%	[100]	ug/L
Sn 189.927†	2171.8	20.69	0.95%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 4/3/2006 1:42:52 PM
Data Type: Reprocessed on 4/3/2006 2:18:00 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	133.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2162539.4	26284.84	1.22%	103.4	%
Y	300723.9	5451.33	1.81%	103.0	%
Ag 328.068†	470140.4	490.24	0.10%	[1000]	ug/L
Al 308.215 R†	1382.0	32.99	2.39%	[1000]	ug/L
As 188.979†	21316.2	470.60	2.21%	[1000]	ug/L
B 249.677†	158349.2	3203.97	2.02%	[1000]	ug/L
Ba 233.527†	392676.3	444.85	0.11%	[1000]	ug/L
Be 313.107†	3736472.3	5113.87	0.14%	[1000]	ug/L
Ca 315.887 R†	11169.1	188.11	1.68%	[1000]	ug/L
Cd 214.440†	343062.2	553.97	0.16%	[1000]	ug/L
Co 228.616†	113947.3	2433.17	2.14%	[1000]	ug/L
Cr 267.716†	101081.6	1884.81	1.86%	[1000]	ug/L
Cu 324.752†	727872.2	1869.66	0.26%	[1000]	ug/L
Fe 238.204 R†	8729.4	163.90	1.88%	[1000]	ug/L
K 766.490 R†	4776.6	122.26	2.56%	[1000]	ug/L
Mg 279.077 R†	1873.0	26.88	1.43%	[1000]	ug/L
Mn 257.610†	914900.8	1288.91	0.14%	[1000]	ug/L
Mo 202.031†	45888.0	853.79	1.86%	[1000]	ug/L
Na 589.592 R†	9733.9	217.59	2.24%	[1000]	ug/L
Ni 231.604†	63413.5	1388.56	2.19%	[1000]	ug/L
Pb 220.353†	52020.3	1376.71	2.65%	[1000]	ug/L
Sb 206.836†	44877.0	1023.87	2.28%	[1000]	ug/L
Se 196.026†	20821.0	415.29	1.99%	[1000]	ug/L
Ti 334.940 R†	1094062.1	1980.21	0.18%	[1000]	ug/L
Tl 190.801†	21741.4	470.26	2.16%	[1000]	ug/L
V 292.402†	137428.7	2666.89	1.94%	[1000]	ug/L
Zn 206.200†	114551.3	2615.04	2.28%	[1000]	ug/L
Sn 189.927†	21673.9	654.62	3.02%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 4/3/2006 1:45:05 PM
Data Type: Reprocessed on 4/3/2006 2:18:01 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2105667.6	21413.38	1.02%	100.7	%
Y	305235.4	3983.84	1.31%	104.5	%
Ag 328.068†	931665.7	8794.64	0.94%	[2000]	ug/L
Al 308.215 R†	14311.1	54.89	0.38%	[10000]	ug/L
As 188.979†	210141.2	1518.52	0.72%	[10000]	ug/L
B 249.677†	1627834.5	2187.90	0.13%	[10000]	ug/L
Ba 233.527†	3851606.8	66218.13	1.72%	[10000]	ug/L
Ca 315.887 R†	111695.5	1027.87	0.92%	[10000]	ug/L
Cd 214.440†	3289263.1	63765.97	1.94%	[10000]	ug/L
Co 228.616†	1130470.6	4043.65	0.36%	[10000]	ug/L
Cr 267.716†	999850.5	2232.27	0.22%	[10000]	ug/L
Cu 324.752†	7351961.4	112549.26	1.53%	[10000]	ug/L
Fe 238.204 R†	85467.4	783.96	0.92%	[10000]	ug/L
K 766.490 R†	46692.3	298.92	0.64%	[10000]	ug/L
Mg 279.077 R†	18355.4	109.25	0.60%	[10000]	ug/L
Mn 257.610†	8772308.7	163594.02	1.86%	[10000]	ug/L
Mo 202.031†	447511.8	5379.56	1.20%	[10000]	ug/L
Na 589.592 R†	96024.4	866.49	0.90%	[10000]	ug/L
Ni 231.604†	614809.6	6571.91	1.07%	[10000]	ug/L
Pb 220.353†	504509.7	5956.64	1.18%	[10000]	ug/L
Sb 206.836†	446964.3	3657.78	0.82%	[10000]	ug/L
Se 196.026†	207689.2	1826.38	0.88%	[10000]	ug/L
Ti 334.940 R†	10694893.6	178942.30	1.67%	[10000]	ug/L
Tl 190.801†	214516.7	2373.16	1.11%	[10000]	ug/L
V 292.402†	1391115.2	2574.01	0.19%	[10000]	ug/L
Zn 206.200†	1131188.2	6068.55	0.54%	[10000]	ug/L
Sn 189.927†	215044.0	2136.83	0.99%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 4/3/2006 1:47:53 PM
Data Type: Reprocessed on 4/3/2006 2:18:02 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	133.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2011688.8	9229.62	0.46%	96.21	%
Y	292377.9	8432.45	2.88%	100.1	%
Al 308.215 R†	149678.8	1751.63	1.17%	[100000]	ug/L
Ca 315.887 R†	1129907.8	11272.33	1.00%	[100000]	ug/L
Fe 238.204 R†	842205.0	8840.20	1.05%	[100000]	ug/L
K 766.490 R†	476636.6	4558.21	0.96%	[100000]	ug/L
Mg 279.077 R†	183314.8	1581.94	0.86%	[100000]	ug/L
Na 589.592 R†	957353.2	9630.19	1.01%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	466.7	0.00000	0.999993	
Al 308.215 R	4	Lin Thru 0	0.0	1.496	0.00000	0.999990	
As 188.979	4	Lin Thru 0	0.0	21.02	0.00000	0.999999	
B 249.677	3	Lin Thru 0	0.0	162.7	0.00000	0.999996	
Ba 233.527	4	Lin Thru 0	0.0	385.2	0.00000	0.999998	
Be 313.107	3	Lin Thru 0	0.0	3737	0.00000	0.999999	
Ca 315.887 R	4	Lin Thru 0	0.0	11.30	0.00000	0.999999	
Cd 214.440	4	Lin Thru 0	0.0	329.1	0.00000	0.999991	
Co 228.616	4	Lin Thru 0	0.0	113.1	0.00000	1.000000	
Cr 267.716	4	Lin Thru 0	0.0	100.00	0.00000	0.999999	
Cu 324.752	4	Lin Thru 0	0.0	735.1	0.00000	0.999999	
Fe 238.204 R	4	Lin Thru 0	0.0	8.423	0.00000	0.999999	
K 766.490 R	4	Lin Thru 0	0.0	4.765	0.00000	0.999998	
Mg 279.077 R	4	Lin Thru 0	0.0	1.833	0.00000	1.000000	
Mn 257.610	4	Lin Thru 0	0.0	877.6	0.00000	0.999991	
Mo 202.031	4	Lin Thru 0	0.0	44.76	0.00000	0.999997	
Na 589.592 R	4	Lin Thru 0	0.0	9.574	0.00000	1.000000	
Ni 231.604	4	Lin Thru 0	0.0	61.50	0.00000	0.999995	
Pb 220.353	4	Lin Thru 0	0.0	50.47	0.00000	0.999995	
Sb 206.836	4	Lin Thru 0	0.0	44.70	0.00000	1.000000	
Se 196.026	4	Lin Thru 0	0.0	20.77	0.00000	1.000000	
Ti 334.940 R	4	Lin Thru 0	0.0	1070	0.00000	0.999997	
Tl 190.801	4	Lin Thru 0	0.0	21.45	0.00000	0.999999	
V 292.402	4	Lin Thru 0	0.0	139.1	0.00000	0.999999	
Zn 206.200	4	Lin Thru 0	0.0	113.1	0.00000	0.999999	
Sn 189.927	4	Lin Thru 0	0.0	21.51	0.00000	1.000000	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86134731007 File : 040306ar.txt Time : 03-APR-2006 13:50
Cal : 86134731001 Caldate: 03-APR-2006
Standards: S3049

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	42.345	44.089	5000	4932	ug/L	-1	10	
Arsenic	A	21.124	20.646	5000	4912	ug/L	-2	10	
Barium	A	395.06	380.20	5000	4935	ug/L	-1	10	
Beryllium	A	3767.0	3626.5	500.0	485.2	ug/L	-3	10	
Boron	A	161.10	160.24	5000	4923	ug/L	-2	10	
Cadmium	A	340.05	325.00	5000	4938	ug/L	-1	10	
Chromium	A	107.16	96.605	5000	4830	ug/L	-3	10	
Cobalt	A	113.84	108.41	5000	4785	ug/L	-4	10	
Copper	A	717.41	708.12	5000	4816	ug/L	-4	10	
Lead	A	49.942	48.444	5000	4800	ug/L	-4	10	
Manganese	A	905.60	859.73	5000	4898	ug/L	-2	10	
Molybdenum	A	46.074	44.508	5000	4972	ug/L	-1	10	
Nickel	A	61.903	59.264	5000	4818	ug/L	-4	10	
Selenium	A	20.229	20.115	5000	4842	ug/L	-3	10	
Silver	A	462.71	435.92	1000	934.0	ug/L	-7	10	
Thallium	A	21.409	20.956	5000	4884	ug/L	-2	10	
Tin	A	21.419	20.315	5000	4723	ug/L	-6	10	
Titanium	A	1088.4	1030.5	5000	4816	ug/L	-4	10	
Vanadium	A	139.70	134.39	5000	4831	ug/L	-3	10	
Zinc	A	115.75	110.32	5000	4876	ug/L	-2	10	
Aluminum	R	1.3864	1.3775	20000	18410	ug/L	-8	10	
Calcium	R	11.241	10.688	20000	18920	ug/L	-5	10	
Iron	R	8.6730	8.1473	20000	19340	ug/L	-3	10	
Magnesium	R	1.8663	1.7541	20000	19140	ug/L	-4	10	
Potassium	R	4.5876	4.4855	20000	18830	ug/L	-6	10	
Sodium	R	9.7231	9.1261	20000	19060	ug/L	-5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2090870	2120673	1.43

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86134731020 File : 040306ar.txt Time : 03-APR-2006 14:49
Cal : 86134731001 Caldate: 03-APR-2006
Standards: S3050

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	42.345	45.211	5000	5057	ug/L	1	10	
Arsenic	A	21.124	21.189	5000	5041	ug/L	1	10	
Barium	A	395.06	379.19	5000	4921	ug/L	-2	10	
Beryllium	A	3767.0	3625.4	500.0	485.1	ug/L	-3	10	
Boron	A	161.10	158.80	5000	4879	ug/L	-2	10	
Cadmium	A	340.05	325.07	5000	4939	ug/L	-1	10	
Chromium	A	107.16	96.603	5000	4830	ug/L	-3	10	
Cobalt	A	113.84	108.21	5000	4776	ug/L	-4	10	
Copper	A	717.41	704.15	5000	4789	ug/L	-4	10	
Lead	A	49.942	49.569	5000	4911	ug/L	-2	10	
Manganese	A	905.60	857.72	5000	4887	ug/L	-2	10	
Molybdenum	A	46.074	45.373	5000	5068	ug/L	1	10	
Nickel	A	61.903	60.682	5000	4933	ug/L	-1	10	
Selenium	A	20.229	20.635	5000	4968	ug/L	-1	10	
Silver	A	462.71	443.41	1000	950.1	ug/L	-5	10	
Thallium	A	21.409	21.470	5000	5004	ug/L	0	10	
Tin	A	21.419	20.749	5000	4824	ug/L	-4	10	
Titanium	A	1088.4	1027.4	5000	4802	ug/L	-4	10	
Vanadium	A	139.70	134.26	5000	4826	ug/L	-3	10	
Zinc	A	115.75	110.44	5000	4881	ug/L	-2	10	
Aluminum	R	1.3864	1.3715	20000	18330	ug/L	-8	10	
Calcium	R	11.241	10.751	20000	19030	ug/L	-5	10	
Iron	R	8.6730	8.1227	20000	19290	ug/L	-4	10	
Magnesium	R	1.8663	1.7669	20000	19280	ug/L	-4	10	
Potassium	R	4.5876	4.4842	20000	18820	ug/L	-6	10	
Sodium	R	9.7231	9.0879	20000	18980	ug/L	-5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2090870	2094938	0.19

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86134731027 File : 040306ar.txt Time : 03-APR-2006 15:22
Cal : 86134731001 Caldate: 03-APR-2006
Standards: S3050

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	42.345	44.062	5000	4929	ug/L	-1	10	
Arsenic	A	21.124	20.803	5000	4949	ug/L	-1	10	
Barium	A	395.06	380.97	5000	4945	ug/L	-1	10	
Beryllium	A	3767.0	3631.4	500.0	485.9	ug/L	-3	10	
Boron	A	161.10	160.79	5000	4940	ug/L	-1	10	
Cadmium	A	340.05	327.21	5000	4972	ug/L	-1	10	
Chromium	A	107.16	97.011	5000	4851	ug/L	-3	10	
Cobalt	A	113.84	108.79	5000	4802	ug/L	-4	10	
Copper	A	717.41	704.10	5000	4789	ug/L	-4	10	
Lead	A	49.942	48.884	5000	4843	ug/L	-3	10	
Manganese	A	905.60	860.52	5000	4903	ug/L	-2	10	
Molybdenum	A	46.074	44.664	5000	4989	ug/L	0	10	
Nickel	A	61.903	59.766	5000	4859	ug/L	-3	10	
Selenium	A	20.229	20.275	5000	4881	ug/L	-2	10	
Silver	A	462.71	436.89	1000	936.1	ug/L	-6	10	
Thallium	A	21.409	21.089	5000	4915	ug/L	-2	10	
Tin	A	21.419	20.429	5000	4750	ug/L	-5	10	
Titanium	A	1088.4	1029.4	5000	4812	ug/L	-4	10	
Vanadium	A	139.70	134.89	5000	4849	ug/L	-3	10	
Zinc	A	115.75	111.36	5000	4922	ug/L	-2	10	
Aluminum	R	1.3864	1.3648	20000	18240	ug/L	-9	10	
Calcium	R	11.241	10.707	20000	18950	ug/L	-5	10	
Iron	R	8.6730	8.0695	20000	19160	ug/L	-4	10	
Magnesium	R	1.8663	1.7641	20000	19250	ug/L	-4	10	
Potassium	R	4.5876	4.5158	20000	18950	ug/L	-5	10	
Sodium	R	9.7231	9.0036	20000	18810	ug/L	-6	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2090870	2138303	2.27

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86134731034 File : 040306ar.txt Time : 03-APR-2006 15:50
Cal : 86134731001 Caldate: 03-APR-2006
Standards: S3050

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	42.345	44.366	5000	4963	ug/L	-1	10	
Arsenic	A	21.124	20.988	5000	4993	ug/L	0	10	
Barium	A	395.06	382.61	5000	4966	ug/L	-1	10	
Beryllium	A	3767.0	3648.9	500.0	488.2	ug/L	-2	10	
Boron	A	161.10	160.20	5000	4922	ug/L	-2	10	
Cadmium	A	340.05	328.45	5000	4991	ug/L	0	10	
Chromium	A	107.16	97.368	5000	4869	ug/L	-3	10	
Cobalt	A	113.84	109.20	5000	4820	ug/L	-4	10	
Copper	A	717.41	708.18	5000	4817	ug/L	-4	10	
Lead	A	49.942	49.258	5000	4880	ug/L	-2	10	
Manganese	A	905.60	864.45	5000	4925	ug/L	-1	10	
Molybdenum	A	46.074	44.963	5000	5022	ug/L	0	10	
Nickel	A	61.903	60.049	5000	4882	ug/L	-2	10	
Selenium	A	20.229	20.452	5000	4923	ug/L	-2	10	
Silver	A	462.71	438.48	1000	939.5	ug/L	-6	10	
Thallium	A	21.409	21.219	5000	4945	ug/L	-1	10	
Tin	A	21.419	20.460	5000	4757	ug/L	-5	10	
Titanium	A	1088.4	1035.0	5000	4837	ug/L	-3	10	
Vanadium	A	139.70	135.43	5000	4868	ug/L	-3	10	
Zinc	A	115.75	111.69	5000	4936	ug/L	-1	10	
Aluminum	R	1.3864	1.3870	20000	18540	ug/L	-7	10	
Calcium	R	11.241	10.740	20000	19010	ug/L	-5	10	
Iron	R	8.6730	8.1846	20000	19430	ug/L	-3	10	
Magnesium	R	1.8663	1.7713	20000	19320	ug/L	-3	10	
Potassium	R	4.5876	4.5336	20000	19030	ug/L	-5	10	
Sodium	R	9.7231	9.0952	20000	19000	ug/L	-5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2090870	2117299	1.26

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86134731046 File : 040306ar.txt Time : 03-APR-2006 17:27
Cal : 86134731001 Caldate: 03-APR-2006
Standards: S3050

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	42.345	43.695	5000	4888	ug/L	-2	10	
Arsenic	A	21.124	20.673	5000	4918	ug/L	-2	10	
Barium	A	395.06	381.33	5000	4949	ug/L	-1	10	
Beryllium	A	3767.0	3641.0	500.0	487.1	ug/L	-3	10	
Boron	A	161.10	159.48	5000	4900	ug/L	-2	10	
Cadmium	A	340.05	328.08	5000	4985	ug/L	0	10	
Chromium	A	107.16	96.962	5000	4848	ug/L	-3	10	
Cobalt	A	113.84	108.97	5000	4810	ug/L	-4	10	
Copper	A	717.41	705.54	5000	4799	ug/L	-4	10	
Lead	A	49.942	48.628	5000	4818	ug/L	-4	10	
Manganese	A	905.60	863.93	5000	4922	ug/L	-2	10	
Molybdenum	A	46.074	44.440	5000	4964	ug/L	-1	10	
Nickel	A	61.903	59.162	5000	4810	ug/L	-4	10	
Selenium	A	20.229	20.150	5000	4851	ug/L	-3	10	
Silver	A	462.71	431.94	1000	925.5	ug/L	-7	10	
Thallium	A	21.409	21.024	5000	4900	ug/L	-2	10	
Tin	A	21.419	20.307	5000	4721	ug/L	-6	10	
Titanium	A	1088.4	1029.9	5000	4814	ug/L	-4	10	
Vanadium	A	139.70	134.65	5000	4840	ug/L	-3	10	
Zinc	A	115.75	111.57	5000	4931	ug/L	-1	10	
Aluminum	R	1.3864	1.3690	20000	18300	ug/L	-8	10	
Calcium	R	11.241	10.552	20000	18680	ug/L	-7	10	
Iron	R	8.6730	8.1462	20000	19340	ug/L	-3	10	
Magnesium	R	1.8663	1.7578	20000	19180	ug/L	-4	10	
Potassium	R	4.5876	4.4895	20000	18840	ug/L	-6	10	
Sodium	R	9.7231	8.9126	20000	18620	ug/L	-7	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2090870	2132017	1.97

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86134731061 File : 040306ar.txt Time : 03-APR-2006 18:21
Cal : 86134731001 Caldate: 03-APR-2006
Standards: S3050

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	42.345	43.924	5000	4913	ug/L	-2	10	
Arsenic	A	21.124	20.903	5000	4973	ug/L	-1	10	
Barium	A	395.06	379.44	5000	4925	ug/L	-2	10	
Beryllium	A	3767.0	3632.4	500.0	486.0	ug/L	-3	10	
Boron	A	161.10	161.38	5000	4958	ug/L	-1	10	
Cadmium	A	340.05	327.55	5000	4977	ug/L	0	10	
Chromium	A	107.16	96.598	5000	4830	ug/L	-3	10	
Cobalt	A	113.84	108.46	5000	4787	ug/L	-4	10	
Copper	A	717.41	700.99	5000	4768	ug/L	-5	10	
Lead	A	49.942	49.369	5000	4891	ug/L	-2	10	
Manganese	A	905.60	861.46	5000	4908	ug/L	-2	10	
Molybdenum	A	46.074	45.074	5000	5035	ug/L	1	10	
Nickel	A	61.903	59.912	5000	4871	ug/L	-3	10	
Selenium	A	20.229	20.440	5000	4921	ug/L	-2	10	
Silver	A	462.71	436.97	1000	936.3	ug/L	-6	10	
Thallium	A	21.409	21.350	5000	4976	ug/L	0	10	
Tin	A	21.419	20.782	5000	4832	ug/L	-3	10	
Titanium	A	1088.4	1021.9	5000	4777	ug/L	-4	10	
Vanadium	A	139.70	134.26	5000	4826	ug/L	-3	10	
Zinc	A	115.75	111.63	5000	4934	ug/L	-1	10	
Aluminum	R	1.3864	1.3934	20000	18630	ug/L	-7	10	
Calcium	R	11.241	10.833	20000	19180	ug/L	-4	10	
Iron	R	8.6730	8.2980	20000	19700	ug/L	-1	10	
Magnesium	R	1.8663	1.7954	20000	19590	ug/L	-2	10	
Potassium	R	4.5876	4.6050	20000	19330	ug/L	-3	10	
Sodium	R	9.7231	9.1359	20000	19090	ug/L	-5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2090870	2156438	3.14

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 86134731075 File : 040306ar.txt IDF : 1.0
Cal : 86134731001 Caldate: 03-APR-2006 Time : 03-APR-2006 19:13
Standards: S3050

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	42.345	44.097	5000	4933	ug/L	-1	10	
Arsenic	A	21.124	20.951	5000	4984	ug/L	0	10	
Barium	A	395.06	380.08	5000	4933	ug/L	-1	10	
Beryllium	A	3767.0	3632.0	500.0	485.9	ug/L	-3	10	
Boron	A	161.10	159.67	5000	4906	ug/L	-2	10	
Cadmium	A	340.05	327.26	5000	4972	ug/L	-1	10	
Chromium	A	107.16	96.741	5000	4837	ug/L	-3	10	
Cobalt	A	113.84	108.54	5000	4791	ug/L	-4	10	
Copper	A	717.41	705.26	5000	4797	ug/L	-4	10	
Lead	A	49.942	49.381	5000	4892	ug/L	-2	10	
Manganese	A	905.60	862.49	5000	4914	ug/L	-2	10	
Molybdenum	A	46.074	45.108	5000	5039	ug/L	1	10	
Nickel	A	61.903	60.180	5000	4893	ug/L	-2	10	
Selenium	A	20.229	20.466	5000	4927	ug/L	-1	10	
Silver	A	462.71	439.32	1000	941.3	ug/L	-6	10	
Thallium	A	21.409	21.357	5000	4977	ug/L	0	10	
Tin	A	21.419	20.839	5000	4845	ug/L	-3	10	
Titanium	A	1088.4	1026.0	5000	4795	ug/L	-4	10	
Vanadium	A	139.70	134.37	5000	4830	ug/L	-3	10	
Zinc	A	115.75	111.52	5000	4929	ug/L	-1	10	
Aluminum	R	1.3864	1.3961	20000	18660	ug/L	-7	10	
Calcium	R	11.241	10.761	20000	19050	ug/L	-5	10	
Iron	R	8.6730	8.3185	20000	19750	ug/L	-1	10	
Magnesium	R	1.8663	1.7852	20000	19480	ug/L	-3	10	
Potassium	R	4.5876	4.5523	20000	19110	ug/L	-4	10	
Sodium	R	9.7231	9.1219	20000	19060	ug/L	-5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2090870	2132832	2.01

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86134731086 File : 040306ar.txt Time : 03-APR-2006 19:55
Cal : 86134731001 Caldate: 03-APR-2006
Standards: S3050

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	42.345	42.865	5000	4795	ug/L	-4	10	
Arsenic	A	21.124	20.515	5000	4880	ug/L	-2	10	
Barium	A	395.06	378.10	5000	4907	ug/L	-2	10	
Beryllium	A	3767.0	3619.8	500.0	484.3	ug/L	-3	10	
Boron	A	161.10	158.50	5000	4870	ug/L	-3	10	
Cadmium	A	340.05	325.81	5000	4951	ug/L	-1	10	
Chromium	A	107.16	96.081	5000	4804	ug/L	-4	10	
Cobalt	A	113.84	107.92	5000	4764	ug/L	-5	10	
Copper	A	717.41	700.71	5000	4766	ug/L	-5	10	
Lead	A	49.942	48.406	5000	4796	ug/L	-4	10	
Manganese	A	905.60	860.00	5000	4900	ug/L	-2	10	
Molybdenum	A	46.074	44.161	5000	4933	ug/L	-1	10	
Nickel	A	61.903	58.712	5000	4773	ug/L	-5	10	
Selenium	A	20.229	20.057	5000	4828	ug/L	-3	10	
Silver	A	462.71	429.87	1000	921.1	ug/L	-8	10	
Thallium	A	21.409	20.999	5000	4894	ug/L	-2	10	
Tin	A	21.419	20.226	5000	4702	ug/L	-6	10	
Titanium	A	1088.4	1019.0	5000	4763	ug/L	-5	10	
Vanadium	A	139.70	133.58	5000	4802	ug/L	-4	10	
Zinc	A	115.75	111.03	5000	4907	ug/L	-2	10	
Aluminum	R	1.3864	1.4041	20000	18770	ug/L	-6	10	
Calcium	R	11.241	10.735	20000	19000	ug/L	-5	10	
Iron	R	8.6730	8.3324	20000	19780	ug/L	-1	10	
Magnesium	R	1.8663	1.7843	20000	19470	ug/L	-3	10	
Potassium	R	4.5876	4.5326	20000	19020	ug/L	-5	10	
Sodium	R	9.7231	9.1811	20000	19180	ug/L	-4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2090870	2153210	2.98

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86134731009 File : 040306ar.txt Time : 03-APR-2006 14:00
Cal : 86134731001 Caldate: 03-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	[1.705]	5.000	0.7122	ug/L	!ib
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	ND	5.000	0.4303	ug/L	
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[0.9648]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2090870	2057488	-1.60

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86134731022 File : 040306ar.txt Time : 03-APR-2006 14:55
Cal : 86134731001 Caldate: 03-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	[2.714]	5.000	0.7122	ug/L	!ib
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	ND	5.000	0.4303	ug/L	
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2090870	2093161	0.11

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86134731029 File : 040306ar.txt Time : 03-APR-2006 15:29
Cal : 86134731001 Caldate: 03-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	[1.267]	5.000	1.047	ug/L	!ib
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	[3.918]	5.000	0.7122	ug/L	!ib
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[0.4409]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[1.535]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2090870	2106811	0.76

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86134731036 File : 040306ar.txt Time : 03-APR-2006 15:56
Cal : 86134731001 Caldate: 03-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	[1.743]	5.000	0.7122	ug/L	!ib
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	ND	5.000	0.4303	ug/L	
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2090870	2127645	1.76

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86134731048 File : 040306ar.txt Time : 03-APR-2006 17:33
Cal : 86134731001 Caldate: 03-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	ND	5.000	0.4303	ug/L	
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[1.391]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2090870	2119885	1.39

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86134731063 File : 040306ar.txt Time : 03-APR-2006 18:27
Cal : 86134731001 Caldate: 03-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	[1.872]	5.000	0.7122	ug/L	!ib
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	ND	5.000	0.4303	ug/L	
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2090870	2121812	1.48

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86134731077 File : 040306ar.txt Time : 03-APR-2006 19:20
Cal : 86134731001 Caldate: 03-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	ND	5.000	0.4303	ug/L	
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2090870	2050760	-1.92

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86134731088 File : 040306ar.txt Time : 03-APR-2006 20:01
Cal : 86134731001 Caldate: 03-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	ND	5.000	0.4303	ug/L	
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2090870	2143625	2.52

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86134731010 File : 040306ar.txt Time : 03-APR-2006 14:04
Cal : 86134731001 Caldate: 03-APR-2006
Standards: S2555

Analyte	Ch	Quant	RL	Units	Flags
Antimony	A	[0.2302]	5.000	ug/L	
Arsenic	A	[3.690]	5.000	ug/L	
Barium	A	[1.004]	5.000	ug/L	
Beryllium	A	[-0.4988]	2.000	ug/L	
Boron	A	[20.70]	100.0	ug/L	
Cadmium	A	[0.8087]	5.000	ug/L	
Cobalt	A	[0.5544]	5.000	ug/L	
Lead	A	[-0.3285]	3.000	ug/L	
Molybdenum	A	[-0.4922]	5.000	ug/L	
Selenium	A	[4.796]	5.000	ug/L	
Silver	A	[-1.848]	5.000	ug/L	
Thallium	A	[3.593]	5.000	ug/L	
Tin	A	[11.49]	40.00	ug/L	
Zinc	A	[3.971]	20.00	ug/L	
Potassium	R	[56.03]	500.0	ug/L	
Sodium	R	[19.06]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19160	ug/L	96
Copper	A	20000	20920	ug/L	105
Manganese	A	20000	18610	ug/L	93
Nickel	A	20000	17670	ug/L	88
Titanium	A	20000	19690	ug/L	98
Vanadium	A	20000	20050	ug/L	100
Aluminum	R	500000	506300	ug/L	101
Calcium	R	500000	485200	ug/L	97
Iron	R	200000	188600	ug/L	94
Magnesium	R	500000	494600	ug/L	99

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2090870	1878018	-10.18

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86134731011 File : 040306ar.txt Time : 03-APR-2006 14:20
Cal : 86134731001 Caldate: 03-APR-2006
Standards: S2570

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	518.4	ug/L	4	20	
Arsenic	A	500.0	532.8	ug/L	7	20	
Barium	A	500.0	540.6	ug/L	8	20	
Beryllium	A	500.0	525.8	ug/L	5	20	
Cadmium	A	1000	995.0	ug/L	-1	20	
Chromium	A	500.0	518.9	ug/L	4	20	
Cobalt	A	500.0	466.7	ug/L	-7	20	
Copper	A	500.0	545.5	ug/L	9	20	
Lead	A	1000	959.4	ug/L	-4	20	
Manganese	A	500.0	539.9	ug/L	8	20	
Molybdenum	A	500.0	515.6	ug/L	3	20	
Nickel	A	1000	936.8	ug/L	-6	20	
Selenium	A	500.0	527.5	ug/L	5	20	
Silver	A	1000	1103	ug/L	10	20	
Thallium	A	500.0	476.6	ug/L	-5	20	
Titanium	A	20000	20450	ug/L	2		
Vanadium	A	500.0	543.5	ug/L	9	20	
Zinc	A	1000	937.8	ug/L	-6	20	
Aluminum	R	500000	520400	ug/L	4		
Calcium	R	500000	498600	ug/L	0		
Iron	R	200000	193000	ug/L	-4		
Magnesium	R	500000	508400	ug/L	2		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2090870	1876974	-10.23

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86134731018 File : 040306ar.txt Time : 03-APR-2006 14:43
Cal : 86134731001 Caldate: 03-APR-2006
Standards: S2570

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	533.5	ug/L	7	20	
Arsenic	A	500.0	539.6	ug/L	8	20	
Barium	A	500.0	544.0	ug/L	9	20	
Beryllium	A	500.0	528.3	ug/L	6	20	
Cadmium	A	1000	1003	ug/L	0	20	
Chromium	A	500.0	528.5	ug/L	6	20	
Cobalt	A	500.0	474.5	ug/L	-5	20	
Copper	A	500.0	546.7	ug/L	9	20	
Lead	A	1000	977.6	ug/L	-2	20	
Manganese	A	500.0	542.2	ug/L	8	20	
Molybdenum	A	500.0	525.9	ug/L	5	20	
Nickel	A	1000	952.9	ug/L	-5	20	
Selenium	A	500.0	535.0	ug/L	7	20	
Silver	A	1000	1108	ug/L	11	20	
Thallium	A	500.0	490.2	ug/L	-2	20	
Titanium	A	20000	20730	ug/L	4		
Vanadium	A	500.0	553.2	ug/L	11	20	
Zinc	A	1000	957.3	ug/L	-4	20	
Aluminum	R	500000	518700	ug/L	4		
Calcium	R	500000	496700	ug/L	-1		
Iron	R	200000	192800	ug/L	-4		
Magnesium	R	500000	507500	ug/L	2		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2090870	1844656	-11.78

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86134731024 File : 040306ar.txt Time : 03-APR-2006 15:14
Cal : 86134731001 Caldate: 03-APR-2006
Standards: S2570

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	535.9	ug/L	7	20	
Arsenic	A	500.0	550.9	ug/L	10	20	
Barium	A	500.0	545.4	ug/L	9	20	
Beryllium	A	500.0	530.0	ug/L	6	20	
Cadmium	A	1000	1005	ug/L	0	20	
Chromium	A	500.0	535.4	ug/L	7	20	
Cobalt	A	500.0	483.7	ug/L	-3	20	
Copper	A	500.0	544.2	ug/L	9	20	
Lead	A	1000	987.4	ug/L	-1	20	
Manganese	A	500.0	545.9	ug/L	9	20	
Molybdenum	A	500.0	533.2	ug/L	7	20	
Nickel	A	1000	968.1	ug/L	-3	20	
Selenium	A	500.0	531.6	ug/L	6	20	
Silver	A	1000	1112	ug/L	11	20	
Thallium	A	500.0	497.2	ug/L	-1	20	
Titanium	A	20000	20790	ug/L	4		
Vanadium	A	500.0	559.0	ug/L	12	20	
Zinc	A	1000	973.8	ug/L	-3	20	
Aluminum	R	500000	520700	ug/L	4		
Calcium	R	500000	499900	ug/L	0		
Iron	R	200000	192700	ug/L	-4		
Magnesium	R	500000	509400	ug/L	2		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2090870	1840341	-11.98

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86134731032 File : 040306ar.txt Time : 03-APR-2006 15:43
Cal : 86134731001 Caldate: 03-APR-2006
Standards: S2570

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	529.3	ug/L	6	20	
Arsenic	A	500.0	548.4	ug/L	10	20	
Barium	A	500.0	547.2	ug/L	9	20	
Beryllium	A	500.0	529.3	ug/L	6	20	
Cadmium	A	1000	1010	ug/L	1	20	
Chromium	A	500.0	525.3	ug/L	5	20	
Cobalt	A	500.0	472.4	ug/L	-6	20	
Copper	A	500.0	543.7	ug/L	9	20	
Lead	A	1000	970.5	ug/L	-3	20	
Manganese	A	500.0	544.9	ug/L	9	20	
Molybdenum	A	500.0	523.7	ug/L	5	20	
Nickel	A	1000	950.6	ug/L	-5	20	
Selenium	A	500.0	527.5	ug/L	6	20	
Silver	A	1000	1113	ug/L	11	20	
Thallium	A	500.0	496.7	ug/L	-1	20	
Titanium	A	20000	20800	ug/L	4		
Vanadium	A	500.0	549.4	ug/L	10	20	
Zinc	A	1000	957.1	ug/L	-4	20	
Aluminum	R	500000	520400	ug/L	4		
Calcium	R	500000	498800	ug/L	0		
Iron	R	200000	193200	ug/L	-3		
Magnesium	R	500000	511700	ug/L	2		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2090870	1854062	-11.33

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86134731084 File : 040306ar.txt Time : 03-APR-2006 19:48
Cal : 86134731001 Caldate: 03-APR-2006
Standards: S2570

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	535.7	ug/L	7	20	
Arsenic	A	500.0	548.1	ug/L	10	20	
Barium	A	500.0	543.9	ug/L	9	20	
Beryllium	A	500.0	529.9	ug/L	6	20	
Cadmium	A	1000	1006	ug/L	1	20	
Chromium	A	500.0	528.5	ug/L	6	20	
Cobalt	A	500.0	477.8	ug/L	-4	20	
Copper	A	500.0	542.1	ug/L	8	20	
Lead	A	1000	982.9	ug/L	-2	20	
Manganese	A	500.0	544.3	ug/L	9	20	
Molybdenum	A	500.0	528.3	ug/L	6	20	
Nickel	A	1000	958.6	ug/L	-4	20	
Selenium	A	500.0	544.4	ug/L	9	20	
Silver	A	1000	1108	ug/L	11	20	
Thallium	A	500.0	495.6	ug/L	-1	20	
Titanium	A	20000	20630	ug/L	3		
Vanadium	A	500.0	551.5	ug/L	10	20	
Zinc	A	1000	968.0	ug/L	-3	20	
Aluminum	R	500000	536300	ug/L	7		
Calcium	R	500000	504500	ug/L	1		
Iron	R	200000	199800	ug/L	0		
Magnesium	R	500000	518900	ug/L	4		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2090870	1862934	-10.90

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86134731 Instrument: MET08 PE ICP Begun: 03-APR-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	040306ar	ICALBLK				03-APR-2006 13:31	1.0	1.0					
002	040306ar	ICAL	CRIM08			03-APR-2006 13:35	1.0	1.0				1	
003	040306ar	ICAL	CS100			03-APR-2006 13:39	1.0	1.0				2	
004	040306ar	ICAL	CS1K			03-APR-2006 13:42	1.0	1.0				3	
005	040306ar	ICAL	CS10K			03-APR-2006 13:45	1.0	1.0				4	
006	040306ar	ICAL	CS100K			03-APR-2006 13:47	1.0	1.0				5	
007	040306ar	ICV				03-APR-2006 13:50	1.0	1.0			5000	6	
008	040306ar	X				03-APR-2006 13:53	1.0	1.0	1		5000		
009	040306ar	ICB				03-APR-2006 14:00	1.0	1.0			5000		
010	040306ar	ICSA				03-APR-2006 14:04	1.0	1.0			5000	7	10:AL=506345
011	040306ar	ICSAB				03-APR-2006 14:20	1.0	1.0			5000	8	5:AL=520407
012	040306ar	BLANK	QC334108	111956	TCLP L	03-APR-2006 14:23	10.0	1.0	2		5000		1:NA=149484
013	040306ar	BS	QC334109	111956	TCLP L	03-APR-2006 14:27	1.0	1.0		1	5000		
014	040306ar	BSD	QC334110	111956	TCLP L	03-APR-2006 14:29	1.0	1.0		1	5000		
015	040306ar	MSS	185870-001	111956	TCLP L	03-APR-2006 14:31	10.0	1.0	1		5000		1:NA=139833
016	040306ar	SDUP	QC334111	111956	TCLP L	03-APR-2006 14:36	10.0	1.0	1		5000		1:NA=134432
017	040306ar	SSPIKE	QC334112	111956	TCLP L	03-APR-2006 14:40	10.0	1.0		1	5000		1:NA=140893
018	040306ar	ICSAB				03-APR-2006 14:43	1.0	1.0			5000	8	5:AL=518719
019	040306ar	X	RINSE			03-APR-2006 14:46	1.0						
020	040306ar	CCV				03-APR-2006 14:49	1.0	1.0			5000	9	
021	040306ar	X	FLUSH			03-APR-2006 14:52	1.0						
022	040306ar	CCB				03-APR-2006 14:55	1.0	1.0			5000		
023	040306ar	SAMPLE	185741-021	111701	Soil	03-APR-2006 15:11	1.0	48.08			5000		3:CA=3075460
024	040306ar	ICSAB				03-APR-2006 15:14	1.0	1.0			5000	8	5:AL=520654
025	040306ar	X	RINSE			03-APR-2006 15:17	1.0						
026	040306ar	X				03-APR-2006 15:20	1.0					9	
027	040306ar	CCV				03-APR-2006 15:22	1.0	1.0			5000	9	
028	040306ar	X	FLUSH			03-APR-2006 15:25	1.0						
029	040306ar	CCB				03-APR-2006 15:29	1.0	1.0			5000		
030	040306ar	BLANK	QC334108	111956	TCLP L	03-APR-2006 15:36	10.0	1.0	1		5000		1:NA=162772
031	040306ar	MSS	185892-004	111948	Water	03-APR-2006 15:40	1.0	1.0	1		5000		1:NA=114129

Stds used: 1=S2544 2=S2568 3=S2567 4=S2569 5=S2556 6=S3049 7=S2555 8=S2570 9=S3050 10=S2309 11=S2838 12=S2839

Analyst: P Carlyon Date: 4/4/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86134731 Instrument: MET08 PE ICP Begun: 03-APR-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	040306ar	ICSAB				03-APR-2006 15:43	1.0	1.0			5000	8	5:AL=520426
033	040306ar	X	RINSE			03-APR-2006 15:46	1.0						
034	040306ar	CCV				03-APR-2006 15:50	1.0	1.0			5000	9	
035	040306ar	X	FLUSH			03-APR-2006 15:53	1.0						
036	040306ar	CCB				03-APR-2006 15:56	1.0	1.0			5000		
037	040306ar	BLANK	QC333515	111807	Filtra	03-APR-2006 16:29	1.0	1.0			5000		
038	040306ar	X	QC333516	111807	Filtra	03-APR-2006 16:34	1.0						
039	040306ar	BS	QC333516	111807	Filtra	03-APR-2006 16:37	1.0	1.0			5000		
040	040306ar	BSD	QC333517	111807	Filtra	03-APR-2006 16:59	1.0	1.0	1	1	5000		
041	040306ar	BSD	QC333517	111807	Filtra	03-APR-2006 17:02	1.0	1.0			5000		
042	040306ar	MSS	185622-001	111807	Filtra	03-APR-2006 17:07	1.0	1.0	1		5000		1:NA=223382
043	040306ar	SER	QC333520	111807	Filtra	03-APR-2006 17:12	5.0	1.0			5000		
044	040306ar	X	185622-001	111807	Filtra	03-APR-2006 17:20	5.0	1.0			5000		
045	040306ar	X	RINSE			03-APR-2006 17:23	1.0						
046	040306ar	CCV				03-APR-2006 17:27	1.0	1.0			5000	9	
047	040306ar	X	FLUSH			03-APR-2006 17:29	1.0						
048	040306ar	CCB				03-APR-2006 17:33	1.0	1.0			5000		
049	040306ar	X	QC333520	111807	Filtra	03-APR-2006 17:37	25.0	1.0			5000		
050	040306ar	MS	QC333518	111807	Filtra	03-APR-2006 17:41	1.0	1.0		1	5000		1:NA=230737
051	040306ar	MSD	QC333519	111807	Filtra	03-APR-2006 17:44	1.0	1.0		1	5000		1:NA=230417
052	040306ar	PDS	QC333521	111807	Filtra	03-APR-2006 17:48	1.0	1.0			5000	10	1:NA=233015
053	040306ar	SAMPLE	185622-002	111807	Filtra	03-APR-2006 17:51	1.0	1.0			5000		1:NA=207107
054	040306ar	SAMPLE	185622-003	111807	Filtra	03-APR-2006 17:55	1.0	1.0			5000		
055	040306ar	SAMPLE	185622-004	111807	Filtra	03-APR-2006 17:59	1.0	1.0			5000		
056	040306ar	SAMPLE	185622-005	111807	Filtra	03-APR-2006 18:03	1.0	1.0			5000		
057	040306ar	SAMPLE	185622-006	111807	Filtra	03-APR-2006 18:08	1.0	1.0			5000		
058	040306ar	SAMPLE	185622-002	111807	Filtra	03-APR-2006 18:12	5.0	1.0			5000		
059	040306ar	X	RINSE			03-APR-2006 18:16	1.0						
060	040306ar	X				03-APR-2006 18:20	1.0					9	
061	040306ar	CCV				03-APR-2006 18:21	1.0	1.0			5000	9	
062	040306ar	X	FLUSH			03-APR-2006 18:23	1.0						

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Stds used: 1=S2544 2=S2568 3=S2567 4=S2569 5=S2556 6=S3049 7=S2555 8=S2570 9=S3050 10=S2309 11=S2838 12=S2839

Analyst: K Carlyon Date: 4/4/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86134731 Instrument: MET08 PE ICP Begun: 03-APR-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
063	040306ar	CCB				03-APR-2006 18:27	1.0	1.0			5000		
064	040306ar	SAMPLE	185622-007	111807	Filtra	03-APR-2006 18:31	1.0	1.0			5000		
065	040306ar	SAMPLE	185622-008	111807	Filtra	03-APR-2006 18:35	1.0	1.0			5000		
066	040306ar	SAMPLE	185622-009	111807	Filtra	03-APR-2006 18:40	1.0	1.0			5000		
067	040306ar	SAMPLE	185622-010	111807	Filtra	03-APR-2006 18:44	1.0	1.0			5000		
068	040306ar	SAMPLE	185622-011	111807	Filtra	03-APR-2006 18:47	1.0	1.0			5000		
069	040306ar	SAMPLE	185622-012	111807	Filtra	03-APR-2006 18:50	1.0	1.0			5000		
070	040306ar	SAMPLE	185622-013	111807	Filtra	03-APR-2006 18:54	1.0	1.0			5000		
071	040306ar	MS	QC333518	111807	Filtra	03-APR-2006 18:58	1.0	1.0			5000		1:NA=227043
072	040306ar	MSD	QC333519	111807	Filtra	03-APR-2006 19:02	1.0	1.0		1	5000		1:NA=233760
073	040306ar	SAMPLE	185622-014	111807	Filtra	03-APR-2006 19:05	1.0	1.0	1		5000		1:NA=103197
074	040306ar	X	RINSE			03-APR-2006 19:09	1.0						
075	040306ar	CCV				03-APR-2006 19:13	1.0	1.0			5000	9	
076	040306ar	X	FLUSH			03-APR-2006 19:16	1.0						
077	040306ar	CCB				03-APR-2006 19:20	1.0	1.0			5000		569
078	040306ar	SAMPLE	185622-015	111807	Filtra	03-APR-2006 19:24	1.0	1.0	1		5000		1:NA=169962
079	040306ar	SAMPLE	185622-016	111807	Filtra	03-APR-2006 19:28	1.0	1.0			5000		
080	040306ar	SAMPLE	185622-017	111807	Filtra	03-APR-2006 19:31	1.0	1.0			5000		
081	040306ar	SAMPLE	185622-018	111807	Filtra	03-APR-2006 19:35	1.0	1.0			5000		
082	040306ar	SAMPLE	185622-015	111807	Filtra	03-APR-2006 19:40	5.0	1.0			5000		
083	040306ar	SAMPLE	185622-014	111807	Filtra	03-APR-2006 19:44	2.0	1.0			5000		
084	040306ar	ICSAB				03-APR-2006 19:48	1.0	1.0			5000	8	5:AL=536298
085	040306ar	X	RINSE			03-APR-2006 19:51	1.0						
086	040306ar	CCV				03-APR-2006 19:55	1.0	1.0			5000	9	
087	040306ar	X	FLUSH			03-APR-2006 19:57	1.0						
088	040306ar	CCB				03-APR-2006 20:01	1.0	1.0			5000		
089	040306ar	BLANK	QC334031	111936	Soil	03-APR-2006 20:10	1.0	50.0			5000		
090	040306ar	BS	QC334032	111936	Soil	03-APR-2006 20:14	1.0	50.0			5000		
091	040306ar	BSD	QC334033	111936	Soil	03-APR-2006 20:16	1.0	50.0			5000		
092	040306ar	MSS	185890-014	111936	Soil	03-APR-2006 20:18	1.0	46.30	1		5000		1:FE=197594
093	040306ar	SER	QC334036	111936	Soil	03-APR-2006 20:20	5.0	46.30			5000		

Stds used: 1=S2544 2=S2568 3=S2567 4=S2569 5=S2556 6=S3049 7=S2555 8=S2570 9=S3050 10=S2309 11=S2838 12=S2839

Analyst: K Carlyon Date: 4/4/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86134731 Instrument: MET08 PE ICP Begun: 03-APR-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
094	040306ar	MS	QC334034	111936	Soil	03-APR-2006 20:23	1.0	48.54		5000		2:FE=204124
095	040306ar	MSD	QC334035	111936	Soil	03-APR-2006 20:26	1.0	47.62		5000		2:FE=188689
096	040306ar	PDS	QC334037	111936	Soil	03-APR-2006 20:28	1.0	46.30		5000	11 12	2:FE=208115
097	040306ar	X	RINSE			03-APR-2006 20:30	1.0					
098	040306ar	CCV				03-APR-2006 20:33	1.0	1.0		5000	9	
099	040306ar	X	FLUSH			03-APR-2006 20:36	1.0					
100	040306ar	CCB				03-APR-2006 20:40	1.0	1.0		5000		
101	040306ar	SAMPLE	185889-001	111936	Soil	03-APR-2006 20:44	1.0	44.64	2	5000		4:FE=281713
102	040306ar	SAMPLE	185889-002	111936	Soil	03-APR-2006 20:46	1.0	45.45	1	5000		3:FE=947485
103	040306ar	SAMPLE	185889-003	111936	Soil	03-APR-2006 20:49	1.0	37.88	1	5000		5:FE=858734
104	040306ar	SAMPLE	185890-005	111936	Soil	03-APR-2006 20:51	1.0	43.10	1	5000		5:FE=402335
105	040306ar	SAMPLE	185890-012	111936	Soil	03-APR-2006 20:54	1.0	46.73	1	5000		3:FE=340610
106	040306ar	SAMPLE	185890-013	111936	Soil	03-APR-2006 20:56	1.0	43.48		5000		3:FE=356158
107	040306ar	SAMPLE	185896-001	111936	Soil	03-APR-2006 20:58	1.0	45.87	2	5000		5:MG=3116993
108	040306ar	SAMPLE	185896-002	111936	Soil	03-APR-2006 21:01	1.0	47.17	2	5000		6:CA=782432
109	040306ar	SAMPLE	185896-003	111936	Soil	03-APR-2006 21:04	1.0	50.51	2	5000		4:MG=3329211
110	040306ar	SAMPLE	185925-001	111936	Soil	03-APR-2006 21:06	1.0	46.73		5000		5:FE=677126
111	040306ar	X	RINSE			03-APR-2006 21:09	1.0					
112	040306ar	CCV				03-APR-2006 21:12	1.0	1.0		5000	9	
113	040306ar	X	FLUSH			03-APR-2006 21:14	1.0					
114	040306ar	X				03-APR-2006 21:22	1.0					
115	040306ar	CCB				03-APR-2006 21:37	1.0	1.0		5000		
116	040306ar	SAMPLE	185896-003	111936	Soil	03-APR-2006 21:41	1.0	50.51	3	5000		4:MG=3323967
117	040306ar	SAMPLE	185896-001	111936	Soil	03-APR-2006 21:44	1.0	45.87	2	5000		5:MG=3132464
118	040306ar	SAMPLE	185890-012	111936	Soil	03-APR-2006 21:46	1.0	46.73		5000		3:FE=348762
119	040306ar	SAMPLE	185890-005	111936	Soil	03-APR-2006 21:48	1.0	43.10		5000		5:FE=408818
120	040306ar	SAMPLE	185889-001	111936	Soil	03-APR-2006 21:51	1.0	44.64	2	5000		4:FE=283952
121	040306ar	SAMPLE	185889-003	111936	Soil	03-APR-2006 21:53	10.0	37.88		5000		1:FE=105112
122	040306ar	SAMPLE	185889-002	111936	Soil	03-APR-2006 21:56	5.0	45.45		5000		1:FE=237187
123	040306ar	SAMPLE	185889-001	111936	Soil	03-APR-2006 22:00	10.0	44.64		5000		
124	040306ar	SAMPLE	185896-001	111936	Soil	03-APR-2006 22:03	10.0	45.87		5000		1:MG=337038

Stds used: 1=S2544 2=S2568 3=S2567 4=S2569 5=S2556 6=S3049 7=S2555 8=S2570 9=S3050 10=S2309 11=S2838 12=S2839

Analyst: K Carlyn Date: 4/4/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86134731 Instrument: MET08 PE ICP Begun: 03-APR-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
125	040306ar	SAMPLE	185925-002	111936	Soil	03-APR-2006 22:06	1.0	51.02	1		5000		6:FE=671796
126	040306ar	X	RINSE			03-APR-2006 22:09	1.0						
127	040306ar	CCV				03-APR-2006 22:12	1.0	1.0			5000	9	
128	040306ar	X	FLUSH			03-APR-2006 22:14	1.0						
129	040306ar	X	FLUSH			03-APR-2006 22:24	1.0						
130	040306ar	CCB				03-APR-2006 22:28	1.0	1.0	1		5000		
131	040306ar	SAMPLE	185925-003	111936	Soil	03-APR-2006 22:33	1.0	45.45	1		5000		5:FE=714501
132	040306ar	SAMPLE	185929-001	111936	Soil	03-APR-2006 22:36	1.0	51.55			5000		4:FE=663437
133	040306ar	SAMPLE	185929-002	111936	Soil	03-APR-2006 22:39	1.0	53.19			5000		4:FE=655589
134	040306ar	SAMPLE	185929-003	111936	Soil	03-APR-2006 22:42	1.0	50.51			5000		4:FE=634225
135	040306ar	SAMPLE	185929-004	111936	Soil	03-APR-2006 22:45	1.0	37.04			5000		5:FE=830915
136	040306ar	SAMPLE	185929-005	111936	Soil	03-APR-2006 22:48	1.0	43.10			5000		4:FE=715664
137	040306ar	SAMPLE	185929-006	111936	Soil	03-APR-2006 22:51	1.0	48.54			5000		3:FE=575373
138	040306ar	SAMPLE	185896-002	111936	Soil	03-APR-2006 22:54	5.0	47.17			5000		2:CA=166711
139	040306ar	SAMPLE	185896-003	111936	Soil	03-APR-2006 22:56	5.0	50.51			5000		2:MG=731053
140	040306ar	SAMPLE	185925-002	111936	Soil	03-APR-2006 23:00	10.0	51.02			5000		
141	040306ar	X	RINSE			03-APR-2006 23:03	1.0						
142	040306ar	CCV				03-APR-2006 23:06	1.0	1.0			5000	9	
143	040306ar	X	FLUSH			03-APR-2006 23:08	1.0						
144	040306ar	X	FLUSH			03-APR-2006 23:15	1.0						
145	040306ar	CCB				03-APR-2006 23:19	1.0	1.0			5000		
146	040306ar	SAMPLE	185925-003	111936	Soil	03-APR-2006 23:23	100.0	45.45			5000		
147	040306ar	ICSAB				03-APR-2006 23:26	1.0	1.0			5000	8	5:AL=551471
148	040306ar	X	RINSE			03-APR-2006 23:29	1.0						
149	040306ar	CCV				03-APR-2006 23:32	1.0	1.0			5000	9	
150	040306ar	X	FLUSH			03-APR-2006 23:35	1.0						
151	040306ar	CCB				03-APR-2006 23:39	1.0	1.0			5000		

Stds used: 1=S2544 2=S2568 3=S2567 4=S2569 5=S2556 6=S3049 7=S2555 8=S2570 9=S3050 10=S2309 11=S2838 12=S2839

Analyst: K Carlyon Date: 4/4/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56136737001
Units : ug/L

Date : 04-APR-2006 23:09
X Axis : R

Reviewer: ---
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	d0422004	56136737004	CS1	04-APR-2006 23:14	S2889
L2	d0422005	56136737005	CS2	04-APR-2006 23:20	S2890
L3	d0422006	56136737006	CS3	04-APR-2006 23:25	S2891
L4	d0422007	56136737007	CS4	04-APR-2006 23:31	S2892
L5	d0422008	56136737008	CS5	04-APR-2006 23:37	S2886
L6	d0422009	56136737009	CS6	04-APR-2006 23:42	S2887

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		14.384	9.3845	3.5464	1.7169	1.6474	BLNK	-3.3537	0.61302		6.1359	0.997	0.995	
Antimony	0.5098	0.4917	0.4723	0.4761	0.4647	0.4704	BLNK	-0.0197	2.13109		0.4808	1.000	0.995	
Arsenic		1.0072	0.9459	0.8768	0.8389	0.8277	BLNK	-0.1216	1.20567		0.8993	1.000	0.995	
Barium	0.2248	0.1948	0.1802	0.1586	0.1540	0.1546	BLNK	-0.0352	6.47475		0.1778	1.000	0.995	
Beryllium	0.3189	0.3023	0.3021	0.3018	0.2992	0.2949	BLNK	-0.0216	3.38186		0.3032	1.000	0.995	
Cadmium	1.4254	1.2721	1.1492	1.0965	1.0564	1.0376	BLNK	-0.0717	0.96059		1.1729	1.000	0.995	
Calcium		0.0685	0.0548	0.0387	0.0368	0.0356	BLNK	-31.667	27.9220		0.0469	1.000	0.995	
Chromium		11.346	9.0239	5.7993	5.4894	5.5252	BLNK	-0.3162	0.18156		7.4367	1.000	0.995	
Cobalt	7.4825	6.9791	7.1643	6.8402	6.7083	6.6068	BLNK	-0.0280	0.15091		6.9635	1.000	0.995	
Copper		2.2161	2.1357	1.8919	1.7708	1.7109	BLNK	-0.0945	0.58066		1.9451	1.000	0.995	
Iron		0.2295	0.1954	0.1632	0.1576	0.1512	BLNK	-22.558	6.56760		0.1794	1.000	0.995	
Lead	2.1342	2.0841	2.0809	2.0770	1.9660	1.9278	BLNK	-0.0232	0.51667		2.0450	1.000	0.995	
Magnesium		0.2405	0.2288	0.2310	0.2044	0.2004	BLNK	-12.634	4.97270		0.2210	1.000	0.995	
Manganese	10.934	9.5418	8.4018	7.5499	7.3314	7.2493	BLNK	-0.1073	0.13771		8.5014	1.000	0.995	
Molybdenum		2.2395	1.9938	1.9470	1.8870	1.8544	BLNK	-0.1194	0.53771		1.9843	1.000	0.995	
Nickel	3.1429	2.2811	1.9720	1.5846	1.4514	1.4126	BLNK	-0.1009	0.70431		1.9741	1.000	0.995	
Potassium		2.8805	2.1419	1.3497	1.2105	1.1895	BLNK	-61.001	0.84066		1.7544	1.000	0.995	
Selenium		0.1343	0.1091	0.0824	0.0746	0.0721	BLNK	-0.4326	13.8117		0.0945	1.000	0.995	
Silver	5.8465	5.7201	5.6145	5.5708	4.9859	5.1492	BLNK	-0.0196	0.19543		5.4812	1.000	0.995	
Sodium		3.4547	2.9280	2.2449	2.0082	1.9810	BLNK	-33.124	0.50432		2.5234	1.000	0.995	
Thallium		1.3963	1.3839	1.3719	1.4546	1.4504	BLNK	-0.0539	0.68937		1.4114	1.000	0.995	
Vanadium		7.4395	7.1069	6.2265	6.2377	6.2643	BLNK	-0.1670	0.15994		6.6550	1.000	0.995	
Zinc		3.4536	2.4132	1.1953	0.9788	0.9294	BLNK	-0.5074	1.06736		1.7940	0.999	0.995	

572

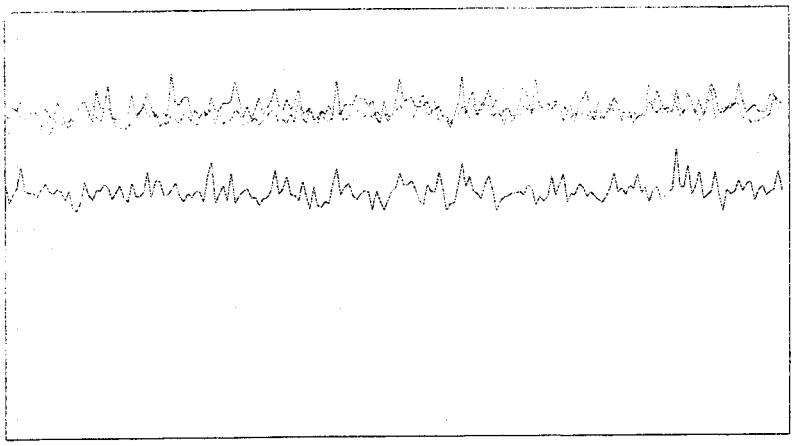
BLNK=Y=aX+[blank]

Instrument amount = a0 + response * a1 + response^2 * a2

56136737001

Tune Report

Tune File : Autotune.u



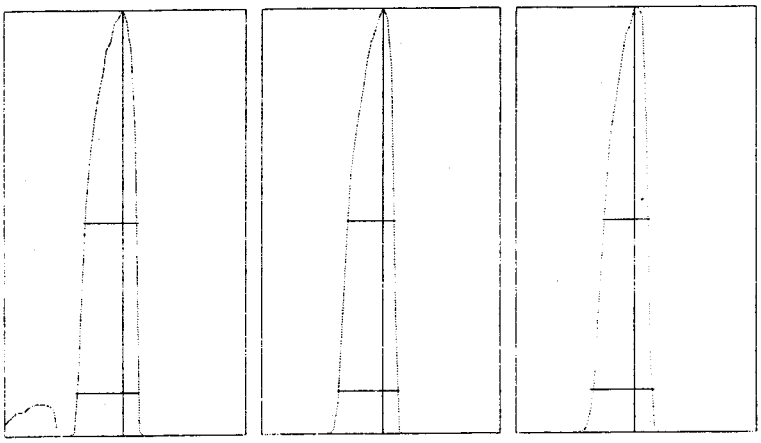
m/z:	7	89	205
Range:	50,000	20,000	20,000
Count:	28,499	15,489	15,159
Mean:	28725.6	15462.7	15067.5
RSD%:	4.20	3.05	2.15
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.36%
Doubly Charged:	70/140	0.92%

Background:

m/z:	7	89	205
Cps:	10.5	6.2	6.7



m/z:	7	89	205
Height:	28,862	15,665	14,962
Axis:	7.00	89.05	205.00
W-50%:	0.70	0.60	0.60
W-10%:	0.800	0.7500	0.800

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1320 W	Extract 1:	-100.6 V	AMU Gain:	131
RF Matching:	1.62 V	Extract 2:	-164 V	AMU Offset:	125
Smpl Depth:	6.1 mm	Einzel 1,3:	-182 V	Axis Gain:	0.9996
Torch-H:	0 mm	Einzel 2:	6 V	Axis Offset:	-0.06
Torch-V:	0.4 mm	Omega Bias:	-74 V	QP Bias:	1.5 V
Carrier Gas:	1.08 L/min	Omega (+):	1.2 V		
Makeup Gas:	0 L/min	Omega (-):	-4 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	4.4 V	Discriminator:	8.7 mV
PeriPump1:	0.1 rps	Plate Bias:	-43.2 V	Analog HV:	1790 V
PeriPump2:	--- rps			Pulse HV:	1260 V
S/C Temp:	2 degC				

Generated : Apr 04, 2006 11:34:56
Printed : Apr 04, 2006 11:35:02

P/A Factor Tuning Report

Acquired:Apr 4 2006 11:43 am

Mass[amu]	Element	P/A Factor
6	Li	0.066668
9	Be	0.075027
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.091432
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.095594
45	Sc	Sensitivity too low
51	V	0.095391
52	Cr	0.097391
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.099758
57	Fe	0.102900
59	Co	0.103248
60	Ni	Sensitivity too low
63	Cu	0.105141
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	Sensitivity too low
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.109560
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	Sensitivity too low
118	(In)	0.112414
121	Sb	Sensitivity too low
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	Sensitivity too low
166	Er	Sensitivity too low

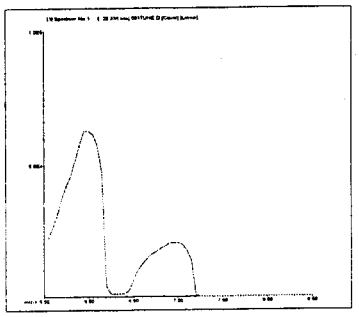
```
205        Tl    0.120759
206      (Pb)    0.117064
207      (Pb)  Sensitivity too low
208        Pb    0.120044
209        Bi  Sensitivity too low

===Detector Parameters===
  Discriminator: 8.7 mV
      Analog HV: 1790 V
       Pulse HV: 1260 V
```

6020 QC Tune Report

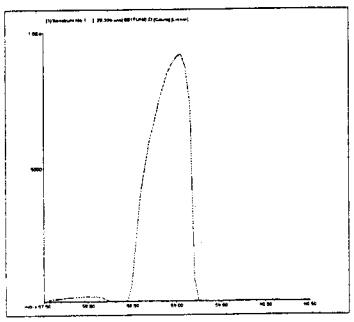
Data File: C:\ICPCHEM\1\DATA\06D0422a.B\001TUNE.D
Date Acquired: Apr 4 2006 10:57 pm
Acq. Method: TN6020.M
Operator:
Sample Name: TUN,S2898
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

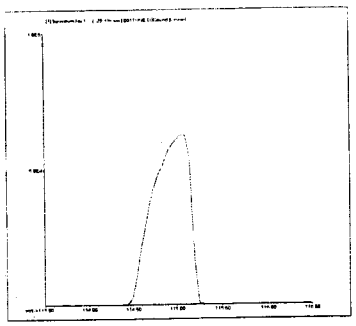
Element	Actual	Required	Flag
7 Li	2.15	5.00	
59 Co	0.96	5.00	
115 In	0.35	5.00	
205 Tl	1.98	5.00	



7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



115 In

Mass Calib.

Actual: 115.10

Required: 114.90 - 115.10

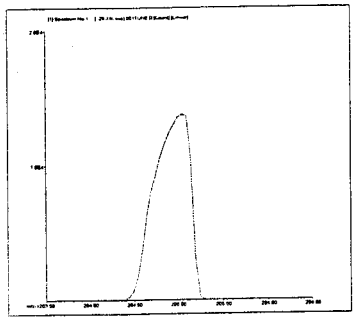
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



205 Tl

Mass Calib.

Actual: 205.05

Required: 204.90 - 205.10

Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06D0422a.B\002BLNK.D\002BLNK.D#
Date Acquired: Apr 4 2006 11:03 pm
Acq. Method: 60200111.M
Operator:
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update: Apr 04 2006 00:48 pm
Sample Type: 6-Blank
Dilution Factor: 1.00

QC Elements

Element	Corr. Conc.		RSD(%)	Raw Conc.	High Limit	Flag
9 Be	0.008917	ppb	65.71	0.008917	1.00	
23 Na	-1.621	ppb	30.61	-1.621	1.00	
26 Mg	6.819	ppb	2.58	6.819	1.00	
27 Al	-0.3057	ppb	29.03	-0.3057	1.00	
39 K	10.28	ppb	11.68	10.28	1.00	
44 Ca	6.874	ppb	9.68	6.874	1.00	
51 V	-0.0006347	ppb	4358.00	-0.000635	1.00	
52 Cr	0.02324	ppb	25.39	0.02324	1.00	
55 Mn	0.05211	ppb	1.04	0.05211	1.00	
57 Fe	1.555	ppb	31.88	1.555	1.00	
59 Co	0.01264	ppb	18.73	0.01264	1.00	
60 Ni	0.009352	ppb	117.62	0.009352	1.00	
65 Cu	-0.03807	ppb	12.25	-0.03807	1.00	
66 Zn	-0.1035	ppb	29.65	-0.1035	1.00	
75 As	-0.04573	ppb	61.21	-0.04573	1.00	
82 Se	-0.6723	ppb	6.74	-0.6723	1.00	
95 Mo	0.02389	ppb	47.59	0.02389	1.00	
109 Ag	-0.002404	ppb	212.15	-0.002404	1.00	
111 Cd	0.04103	ppb	24.88	0.04103	1.00	
121 Sb	-0.00544	ppb	52.30	-0.00544	1.00	
137 Ba	0.02084	ppb	30.59	0.02084	1.00	
205 Tl	0.03771	ppb	43.28	0.03771	1.00	
208 Pb	0.008092	ppb	19.62	0.008092	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	611433.13	0.99	---	#VALUE!	80 - 120	
45 Sc	263466.66	0.79	---	#VALUE!	80 - 120	
72 Ge	62621.78	0.45	---	#VALUE!	80 - 120	
115 In	449489.09	0.05	---	#VALUE!	80 - 120	
209 Bi	471278.88	0.49	---	#VALUE!	80 - 120	

ISTD Ref File : ---

4 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Fail
ISTD: Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06D0422a.B\003CAL
Date Acquired:	Apr 4 2006 11:09 pm
Operator:	
Sample Name:	std-blk
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Apr 04 2006 00:48 pm
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	591971.19	A	13000.00	2.20
9	Be	75.56	P	10.72	14.19
23	Na	344558.91	P	18300.00	5.31
26	Mg	13327.78	P	1069.00	8.02
27	Al	28697.78	P	2878.00	10.03
39	K	380684.41	P	4233.00	1.11
44	Ca	5949.82	P	295.60	4.97
45	Sc	262315.50	P	530.30	0.20
51	V	1297.02	P	348.50	26.87
52	Cr	2161.11	P	28.74	1.33
55	Mn	966.67	P	109.10	11.29
57	Fe	4262.22	P	140.10	3.29
59	Co	230.00	P	29.63	12.88
60	Ni	177.78	P	16.78	9.44
65	Cu	202.16	P	51.02	25.24
66	Zn	589.93	P	23.09	3.91
72	Ge	62043.56	P	306.10	0.49
75	As	125.39	P	85.67	68.32
82	Se	38.89	P	31.17	80.15
95	Mo	275.56	P	47.65	17.29
109	Ag	124.44	P	22.19	17.83
111	Cd	92.70	P	13.83	14.92
115	In	450083.91	P	1932.00	0.43
121	Sb	83.33	P	5.77	6.93
137	Ba	48.89	P	8.39	17.16
205	Tl	742.22	P	44.39	5.98
208	Pb	426.67	P	6.67	1.56
209	Bi	474798.91	P	5134.00	1.08

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D0422a.B\004CALI.D\004CALI.D#
Date Acquired: Apr 4 2006 11:14 pm
Operator:
Sample Name: CS1,S2889
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 04 2006 11:10 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	593169.81	A	11260.00	1.90
9 Be	945.56	P	9.62	1.02
23 Na	488985.59	P	18040.00	3.69
26 Mg	33163.33	P	578.40	1.74
27 Al	25667.78	P	1742.00	6.79
39 K	534918.88	P	5400.00	1.01
44 Ca	12156.50	P	450.60	3.71
45 Sc	260493.30	P	566.30	0.22
51 V	2920.81	P	315.10	10.79
52 Cr	6182.22	P	40.73	0.66
55 Mn	3378.89	P	46.71	1.38
57 Fe	8753.33	P	321.30	3.67
59 Co	2312.22	P	61.49	2.66
60 Ni	971.11	P	48.57	5.00
65 Cu	926.52	P	78.81	8.51
66 Zn	2353.17	P	73.71	3.13
72 Ge	61804.00	P	181.30	0.29
75 As	378.26	P	143.90	38.04
82 Se	61.11	P	27.34	44.74
95 Mo	813.33	P	62.27	7.66
109 Ag	1806.67	P	11.55	0.64
111 Cd	440.57	P	60.29	13.69
115 In	447730.81	P	1571.00	0.35
121 Sb	1141.11	P	31.51	2.76
137 Ba	503.33	P	48.42	9.62
205 Tl	3835.55	P	70.74	1.84
208 Pb	5066.67	P	266.10	5.25
209 Bi	474645.59	P	7374.00	1.55

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	593169.75	1.90	591971.19	100.2	80 - 120	

45	Sc	260493.33	0.22	262315.53	99.3	80 -	120
72	Ge	61804.00	0.29	62043.56	99.6	80 -	120
115	In	447730.75	0.35	450083.94	99.5	80 -	120
209	Bi	474645.56	1.55	474798.88	100.0	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0422a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D0422a.B\005CALI.D\005CALI.D#
Date Acquired: Apr 4 2006 11:20 pm
Operator:
Sample Name: CS2,S2890
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 04 2006 11:16 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	589803.50	A	20870.00	3.54
9 Be	1782.22	P	74.26	4.17
23 Na	888278.81	A	31890.00	3.59
26 Mg	61835.55	P	1773.00	2.87
27 Al	36980.00	P	5022.00	13.58
39 K	740677.38	A	8527.00	1.15
44 Ca	17623.32	P	731.40	4.15
45 Sc	257134.41	P	596.70	0.23
51 V	4603.18	P	308.60	6.70
52 Cr	7018.89	P	223.40	3.18
55 Mn	5903.33	P	186.80	3.16
57 Fe	14200.00	P	423.20	2.98
59 Co	4317.78	P	147.70	3.42
60 Ni	1411.11	P	18.36	1.30
65 Cu	1370.84	P	26.93	1.96
66 Zn	2136.36	P	69.35	3.25
72 Ge	61862.89	P	362.10	0.59
75 As	622.83	P	57.86	9.29
82 Se	83.11	P	14.05	16.91
95 Mo	1385.56	P	87.58	6.32
109 Ag	3538.89	P	100.80	2.85
111 Cd	786.96	P	7.07	0.90
115 In	447134.31	P	5903.00	1.32
121 Sb	2198.89	P	92.16	4.19
137 Ba	871.11	P	43.50	4.99
205 Tl	6617.78	P	95.59	1.44
208 Pb	9880.00	P	186.70	1.89
209 Bi	474070.00	P	7294.00	1.54

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	589803.50	3.54	591971.19	99.6	80 - 120	

45 Sc	257134.44	0.23	262315.53	98.0	80 -	120
72 Ge	61862.89	0.59	62043.56	99.7	80 -	120
115 In	447134.31	1.32	450083.94	99.3	80 -	120
209 Bi	474069.97	1.54	474798.88	99.8	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0422a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D0422a.B\006CALI.D\006CALI.D#
Date Acquired: Apr 4 2006 11:25 pm
Operator:
Sample Name: CS3,S2891
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 04 2006 11:22 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	576165.00	A	5081.00	0.88
9 Be	3481.11	P	57.38	1.65
23 Na	1503089.00	A	19460.00	1.29
26 Mg	117436.70	P	1550.00	1.32
27 Al	48176.66	P	1203.00	2.50
39 K	1099464.00	A	9143.00	0.83
44 Ca	28123.12	P	397.90	1.41
45 Sc	256670.00	P	1758.00	0.68
51 V	8619.63	P	722.20	8.38
52 Cr	10953.33	P	167.40	1.53
55 Mn	10196.67	P	282.60	2.77
57 Fe	23718.89	P	270.20	1.14
59 Co	8696.67	P	120.10	1.38
60 Ni	2394.44	P	127.40	5.32
65 Cu	2592.82	P	106.80	4.12
66 Zn	2929.41	P	56.95	1.94
72 Ge	60694.00	P	791.10	1.30
75 As	1148.17	P	200.00	17.42
82 Se	132.44	P	22.43	16.94
95 Mo	2420.00	P	100.40	4.15
109 Ag	6815.56	P	183.80	2.70
111 Cd	1394.76	P	14.08	1.01
115 In	441143.81	P	925.10	0.21
121 Sb	4166.67	P	52.92	1.27
137 Ba	1590.00	P	112.90	7.10
205 Tl	12927.78	P	240.20	1.86
208 Pb	19437.78	P	18.95	0.10
209 Bi	467054.41	P	2482.00	0.53

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	576165.00	0.88	591971.19	97.3	80 - 120	

45	Sc	256669.98	0.68	262315.53	97.8	80 -	120
72	Ge	60694.00	1.30	62043.56	97.8	80 -	120
115	In	441143.78	0.21	450083.94	98.0	80 -	120
209	Bi	467054.41	0.53	474798.88	98.4	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0422a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D0422a.B\007CALI.D\007CALI.D#
Date Acquired: Apr 4 2006 11:31 pm
Operator:
Sample Name: CS4,S2892
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 04 2006 11:27 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	574415.00	A	5522.00	0.96
9 Be	34664.44	P	532.60	1.54
23 Na	11458610.00	A	233800.00	2.04
26 Mg	1179016.00	A	9825.00	0.83
27 Al	180987.80	P	2984.00	1.65
39 K	6888973.00	A	20800.00	0.30
44 Ca	197396.00	P	1773.00	0.90
45 Sc	255214.41	P	2332.00	0.91
51 V	76052.57	P	2249.00	2.96
52 Cr	70827.78	P	1201.00	1.70
55 Mn	92207.78	P	1739.00	1.89
57 Fe	199330.00	P	2519.00	1.26
59 Co	83540.00	P	569.80	0.68
60 Ni	19354.44	P	484.80	2.50
65 Cu	23104.88	P	118.50	0.51
66 Zn	14598.55	P	156.50	1.07
72 Ge	61065.33	P	431.30	0.71
75 As	10709.03	P	196.90	1.84
82 Se	1006.22	P	30.44	3.03
95 Mo	23777.78	P	84.74	0.36
109 Ag	68037.78	P	684.30	1.01
111 Cd	13390.55	P	108.20	0.81
115 In	442571.69	P	2698.00	0.61
121 Sb	42140.00	P	225.10	0.53
137 Ba	14037.78	P	434.90	3.10
205 Tl	129486.70	P	4629.00	3.57
208 Pb	196061.09	P	3304.00	1.69
209 Bi	471984.41	P	2523.00	0.53

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	574415.00	0.96	591971.19	97.0	80 - 120	

45	Sc	255214.44	0.91	262315.53	97.3	80 -	120
72	Ge	61065.33	0.71	62043.56	98.4	80 -	120
115	In	442571.69	0.61	450083.94	98.3	80 -	120
209	Bi	471984.41	0.53	474798.88	99.4	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0422a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D0422a.B\008CALI.D\008CALI.D#
Date Acquired: Apr 4 2006 11:37 pm
Operator:
Sample Name: CS5,S2886
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 04 2006 11:33 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	547390.50	A	6239.00	1.14
9	Be	327518.91	P	1688.00	0.52
23	Na	100943900.00	A	1028000.00	1.02
26	Mg	10276330.00	A	47820.00	0.47
27	Al	863039.38	A	11570.00	1.34
39	K	60847500.00	A	82170.00	0.14
44	Ca	1850418.00	A	19410.00	1.05
45	Sc	251335.50	P	857.60	0.34
51	V	743043.38	A	8373.00	1.13
52	Cr	653916.63	P	4503.00	0.69
55	Mn	873280.63	A	4497.00	0.51
57	Fe	1876963.00	A	8023.00	0.43
59	Co	799034.50	A	5033.00	0.63
60	Ni	172885.59	P	2598.00	1.50
65	Cu	210965.80	P	3679.00	1.74
66	Zn	116599.70	P	1520.00	1.30
72	Ge	59566.22	P	796.10	1.34
75	As	99935.31	P	1635.00	1.64
82	Se	8890.22	P	70.21	0.79
95	Mo	224788.91	P	2752.00	1.22
109	Ag	593956.63	P	5039.00	0.85
111	Cd	125841.20	P	593.70	0.47
115	In	428558.00	P	4658.00	1.09
121	Sb	398314.41	P	4507.00	1.13
137	Ba	132015.59	P	692.50	0.52
205	Tl	1352400.00	A	17360.00	1.28
208	Pb	1827799.00	M	27630.00	1.51
209	Bi	464874.41	P	6365.00	1.37

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	547390.50	1.14	591971.19	92.5	80 - 120	

45 Sc	251335.53	0.34	262315.53	95.8	80 -	120
72 Ge	59566.22	1.34	62043.56	96.0	80 -	120
115 In	428557.97	1.09	450083.94	95.2	80 -	120
209 Bi	464874.41	1.37	474798.88	97.9	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0422a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D0422a.B\009CALI.D\009CALI.D#
Date Acquired: Apr 4 2006 11:42 pm
Operator:
Sample Name: CS6,S2887
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 04 2006 11:38 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	546970.38	M	8720.00	1.59
9	Be	645015.31	A	5642.00	0.87
23	Na	195904400.00	A	3779000.00	1.93
26	Mg	19817270.00	A	71700.00	0.36
27	Al	1629208.00	A	7746.00	0.48
39	K	117632000.00	A	872700.00	0.74
44	Ca	3525145.00	A	27520.00	0.78
45	Sc	247243.30	P	1797.00	0.73
51	V	1463514.00	A	11400.00	0.78
52	Cr	1290790.00	A	14300.00	1.11
55	Mn	1693540.00	A	2337.00	0.14
57	Fe	3531362.00	A	51320.00	1.45
59	Co	1543336.00	A	17260.00	1.12
60	Ni	330010.00	P	1321.00	0.40
65	Cu	399675.00	P	6902.00	1.73
66	Zn	217125.30	P	1979.00	0.91
72	Ge	58407.78	P	581.60	1.00
75	As	193361.30	P	2998.00	1.55
82	Se	16835.78	P	122.00	0.72
95	Mo	433235.50	P	5178.00	1.20
109	Ag	1203029.00	A	15570.00	1.29
111	Cd	242408.00	P	575.60	0.24
115	In	414598.31	P	1753.00	0.42
121	Sb	780130.00	P	6414.00	0.82
137	Ba	256351.09	P	1810.00	0.71
205	Tl	2576378.00	A	21910.00	0.85
208	Pb	3424953.00	A	13000.00	0.38
209	Bi	444236.59	P	8828.00	1.99

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6	Li	546970.38	1.59	591971.19	92.4	80 -	120	

45	Sc	247243.33	0.73	262315.53	94.3	80 -	120
72	Ge	58407.78	1.00	62043.56	94.1	80 -	120
115	In	414598.31	0.42	450083.94	92.1	80 -	120
209	Bi	444236.66	1.99	474798.88	93.6	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0422a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Summary

Calibration : C:\ICPCHEM\1\CALIB\60200111.C
Last Calib: Apr 04, 2006 23:44
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\06d0422a.b\003calb.d\	003calb.d#	Apr 4 2006 11:09 pm
2	...hem\1\data\06d0422a.b\004cali.d\	004cali.d#	Apr 4 2006 11:14 pm
3	...hem\1\data\06d0422a.b\005cali.d\	005cali.d#	Apr 4 2006 11:20 pm
4	...hem\1\data\06d0422a.b\006cali.d\	006cali.d#	Apr 4 2006 11:25 pm
5	...hem\1\data\06d0422a.b\007cali.d\	007cali.d#	Apr 4 2006 11:31 pm
6	...hem\1\data\06d0422a.b\008cali.d\	008cali.d#	Apr 4 2006 11:37 pm
7	...hem\1\data\06d0422a.b\009cali.d\	009cali.d#	Apr 4 2006 11:42 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	Excluded	---	ppb
Be	9	6	Y = 2.957E-1*X +6.379E-3(blank)	---	ppb
Na	23	45	Y = 1.983E+0*X +6.568E+1(blank)	---	ppb
Mg	25	45	Excluded	---	ppb
Mg	26	45	Y = 2.011E-1*X +2.541E+0(blank)	---	ppb
Al	27	45	Y = 1.631E+0*X +5.471E+0(blank)	---	ppb
K	39	45	Y = 1.190E+0*X +7.256E+1(blank)	---	ppb
Ca	43	45	Excluded	---	ppb
Ca	44	45	Y = 3.581E-2*X +1.134E+0(blank)	---	ppb
Sc	45	---	Excluded	---	ppb
V	51	72	Y = 6.252E+0*X +1.044E+0(blank)	---	ppb
Cr	52	72	Y = 5.508E+0*X +1.742E+0(blank)	---	ppb
Cr	53	72	Excluded	---	ppb
Fe	54	72	Excluded	---	ppb
Mn	55	72	Y = 7.261E+0*X +7.791E-1(blank)	---	ppb
Fe	57	72	Y = 1.523E-1*X +3.435E+0(blank)	---	ppb
Co	59	72	Y = 6.626E+0*X +1.854E-1(blank)	---	ppb
Ni	60	72	Y = 1.420E+0*X +1.433E-1(blank)	---	ppb
Cu	63	72	Excluded	---	ppb
Cu	65	72	Y = 1.722E+0*X +1.628E-1(blank)	---	ppb
Zn	66	72	Y = 9.369E-1*X +4.754E-1(blank)	---	ppb
Ge	72	---	Excluded	---	ppb
As	75	72	Y = 8.294E-1*X +1.008E-1(blank)	---	ppb
(As)	77	72	Excluded	---	ppb
Se	82	72	Y = 7.240E-2*X +3.132E-2(blank)	---	ppb
(As)	83	72	Excluded	---	ppb
(Ca)	88	72	Excluded	---	ppb
Y	89	72	Excluded	---	ppb
Mo	95	72	Y = 1.860E+0*X +2.220E-1(blank)	---	ppb
Mo	98	72	Excluded	---	ppb
(Mo)	99	72	Excluded	---	ppb
(Cd)	106	72	Excluded	---	ppb
(Cd)	108	72	Excluded	---	ppb
Ag	109	72	Y = 5.117E+0*X +1.003E-1(blank)	---	ppb
Cd	111	72	Y = 1.041E+0*X +7.467E-2(blank)	---	ppb
Cd	114	72	Excluded	---	ppb
In	115	---	Excluded	---	ppb
(In)	118	---	Excluded	---	ppb
Sb	121	115	Y = 4.692E-1*X +9.259E-3(blank)	---	ppb
Ba	135	115	Excluded	---	ppb
Ba	137	115	Y = 1.544E-1*X +5.429E-3(blank)	---	ppb
Tb	159	---	Excluded	---	ppb
Er	166	115	Excluded	---	ppb
Tl	205	209	Y = 1.451E+0*X +7.816E-2(blank)	---	ppb
(Pb)	206	209	Excluded	---	ppb
(Pb)	207	209	Excluded	---	ppb
Pb	208	209	Y = 1.935E+0*X +4.494E-2(blank)	---	ppb
Bi	209	---	Excluded	---	ppb
Th	232	209	--------	---	ppb
U	238	209	--------	---	ppb

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05
Seqnum : 56136737010 File : d0422010
Cal : 56136737001 Caldate: 04-APR-2006
Standards: S2895

IDF : 1.0
Time : 04-APR-2006 23:47

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	6.1359	1.6775	100.0	99.48	ug/L	-1	10	
Antimony	0.4808	0.4543	100.0	96.79	ug/L	-3	10	
Arsenic	0.8993	0.8189	100.0	98.61	ug/L	-1	10	
Barium	0.1778	0.1487	100.0	96.22	ug/L	-4	10	
Beryllium	0.3032	0.2887	100.0	97.61	ug/L	-2	10	
Cadmium	1.1729	1.0477	100.0	100.6	ug/L	1	10	
Calcium	0.0469	0.0356	10000	9912	ug/L	-1	10	
Chromium	7.4367	5.3323	100.0	96.49	ug/L	-4	10	
Cobalt	6.9635	6.5079	100.0	98.18	ug/L	-2	10	
Copper	1.9451	1.7030	100.0	98.79	ug/L	-1	10	
Iron	0.1794	0.1536	10000	10060	ug/L	1	10	
Lead	2.0450	1.9298	100.0	99.68	ug/L	0	10	
Magnesium	0.2210	0.1958	10000	9723	ug/L	-3	10	
Manganese	8.5014	7.2074	100.0	99.15	ug/L	-1	10	
Molybdenum	1.9843	1.8300	100.0	98.28	ug/L	-2	10	
Nickel	1.9741	1.4259	100.0	100.3	ug/L	0	10	
Potassium	1.7544	1.1750	10000	9816	ug/L	-2	10	
Selenium	0.0945	0.0726	100.0	99.79	ug/L	0	10	
Silver	5.4812	5.1200	100.0	100.0	ug/L	0	10	
Sodium	2.5234	1.9359	10000	9730	ug/L	-3	10	
Thallium	1.4114	1.4451	100.0	99.57	ug/L	0	10	
Vanadium	6.6550	5.9397	100.0	94.83	ug/L	-5	10	
Zinc	1.7940	0.9405	100.0	99.88	ug/L	0	10	

ISTD (ICALBLK d0422003)	ICALBLK Abund	Abund	%Drift
Lithium	591971	553322	-6.53
Scandium	262316	250846	-4.37
Germanium	62044	58796	-5.23
Indium	450084	426718	-5.19
Bismuth	474799	453243	-4.54

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56136737025
Cal : 56136737001
Standards: S2897

File : d0422025
Caldate: 04-APR-2006

IDF : 1.0
Time : 05-APR-2006 01:11

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	6.1359	1.4955	150.0	134.2	ug/L	**-11**	10	c- ***
Antimony	0.4808	0.4667	150.0	149.2	ug/L	-1	10	
Arsenic	0.8993	0.7757	150.0	140.2	ug/L	-7	10	
Barium	0.1778	0.1642	150.0	159.5	ug/L	6	10	
Beryllium	0.3032	0.2458	150.0	124.7	ug/L	**-17**	10	c- ***
Cadmium	1.1729	0.9619	150.0	138.5	ug/L	-8	10	
Calcium	0.0469	0.0353	15000	14740	ug/L	-2	10	
Chromium	7.4367	5.5967	150.0	152.1	ug/L	1	10	
Cobalt	6.9635	6.8934	150.0	156.0	ug/L	4	10	
Copper	1.9451	1.7821	150.0	155.1	ug/L	3	10	
Iron	0.1794	0.1667	15000	16400	ug/L	9	10	
Lead	2.0450	1.7265	150.0	133.8	ug/L	**-11**	10	c- ***
Magnesium	0.2210	0.1946	15000	14500	ug/L	-3	10	
Manganese	8.5014	7.5496	150.0	155.8	ug/L	4	10	
Molybdenum	1.9843	1.7042	150.0	137.3	ug/L	-8	10	
Nickel	1.9741	1.5017	150.0	158.5	ug/L	6	10	
Potassium	1.7544	1.0889	15000	13670	ug/L	-9	10	
Selenium	0.0945	0.0663	150.0	137.0	ug/L	-9	10	
Silver	5.4812	4.8142	150.0	141.1	ug/L	-6	10	
Sodium	2.5234	2.0714	15000	15640	ug/L	4	10	
Thallium	1.4114	1.3023	150.0	134.6	ug/L	-10	10	
Vanadium	6.6550	6.0714	150.0	145.5	ug/L	-3	10	
Zinc	1.7940	0.9842	150.0	157.1	ug/L	5	10	

ISTD (ICALBLK d0422003)	ICALBLK Abund	Abund	%Drift
Lithium	591971	339167	-42.71
Scandium	262316	114326	-56.42
Germanium	62044	28516	-54.04
Indium	450084	196498	-56.34
Bismuth	474799	298957	-37.04

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56136737039
Cal : 56136737001
Standards: S2897

File : d0422039
Caldate: 04-APR-2006

IDF : 1.0
Time : 05-APR-2006 02:30

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	6.1359	1.5954	150.0	143.4	ug/L	-4	10	
Antimony	0.4808	0.4565	150.0	145.9	ug/L	-3	10	
Arsenic	0.8993	0.7778	150.0	140.5	ug/L	-6	10	
Barium	0.1778	0.1571	150.0	152.6	ug/L	2	10	
Beryllium	0.3032	0.2619	150.0	132.8	ug/L	**-11**	10	c- ***
Cadmium	1.1729	0.9659	150.0	139.1	ug/L	-7	10	
Calcium	0.0469	0.0355	15000	14820	ug/L	-1	10	
Chromium	7.4367	5.2660	150.0	143.1	ug/L	-5	10	
Cobalt	6.9635	6.6934	150.0	151.5	ug/L	1	10	
Copper	1.9451	1.6772	150.0	146.0	ug/L	-3	10	
Iron	0.1794	0.1560	15000	15340	ug/L	2	10	
Lead	2.0450	1.8059	150.0	139.9	ug/L	-7	10	
Magnesium	0.2210	0.2001	15000	14910	ug/L	-1	10	
Manganese	8.5014	7.3621	150.0	152.0	ug/L	1	10	
Molybdenum	1.9843	1.7028	150.0	137.2	ug/L	-9	10	
Nickel	1.9741	1.4111	150.0	149.0	ug/L	-1	10	
Potassium	1.7544	1.1282	15000	14170	ug/L	-6	10	
Selenium	0.0945	0.0677	150.0	139.8	ug/L	-7	10	
Silver	5.4812	4.7516	150.0	139.3	ug/L	-7	10	
Sodium	2.5234	2.0722	15000	15640	ug/L	4	10	
Thallium	1.4114	1.3582	150.0	140.4	ug/L	-6	10	
Vanadium	6.6550	5.9088	150.0	141.6	ug/L	-6	10	
Zinc	1.7940	0.9507	150.0	151.7	ug/L	1	10	

ISTD (ICALBLK d0422003)	ICALBLK Abund	Abund	%Drift
Lithium	591971	454400	-23.24
Scandium	262316	181564	-30.78
Germanium	62044	46530	-25.00
Indium	450084	317930	-29.36
Bismuth	474799	411518	-13.33

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56136737055
Cal : 56136737001
Standards: S2897

File : d0422055
Caldate: 04-APR-2006

IDF : 1.0
Time : 05-APR-2006 04:00

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	6.1359	1.4285	150.0	128.0	ug/L	**-15**	10	c- ***
Antimony	0.4808	0.4592	150.0	146.8	ug/L	-2	10	
Arsenic	0.8993	0.7650	150.0	138.2	ug/L	-8	10	
Barium	0.1778	0.1638	150.0	159.1	ug/L	6	10	
Beryllium	0.3032	0.2473	150.0	125.4	ug/L	**-16**	10	c- ***
Cadmium	1.1729	0.9329	150.0	134.4	ug/L	-10	10	
Calcium	0.0469	0.0351	15000	14670	ug/L	-2	10	
Chromium	7.4367	5.8180	150.0	158.1	ug/L	5	10	
Cobalt	6.9635	6.9868	150.0	158.1	ug/L	5	10	
Copper	1.9451	1.8174	150.0	158.2	ug/L	5	10	
Iron	0.1794	0.1751	15000	17230	ug/L	**15**	10	c+ ***
Lead	2.0450	1.7774	150.0	137.7	ug/L	-8	10	
Magnesium	0.2210	0.1987	15000	14810	ug/L	-1	10	
Manganese	8.5014	7.6972	150.0	158.9	ug/L	6	10	
Molybdenum	1.9843	1.6271	150.0	131.1	ug/L	**-13**	10	c- ***
Nickel	1.9741	1.5571	150.0	164.4	ug/L	10	10	
Potassium	1.7544	1.0588	15000	13290	ug/L	**-11**	10	c- ***
Selenium	0.0945	0.0644	150.0	132.9	ug/L	**-11**	10	c- ***
Silver	5.4812	4.6996	150.0	137.7	ug/L	-8	10	
Sodium	2.5234	2.0893	15000	15770	ug/L	5	10	
Thallium	1.4114	1.2707	150.0	131.3	ug/L	**-12**	10	c- ***
Vanadium	6.6550	6.2034	150.0	148.7	ug/L	-1	10	
Zinc	1.7940	0.9774	150.0	156.0	ug/L	4	10	

ISTD (ICALBLK d0422003)	ICALBLK Abund	Abund	%Drift
Lithium	591971	282684	-52.25
Scandium	262316	85971	-67.23
Germanium	62044	19999	-67.77
Indium	450084	135649	-69.86
Bismuth	474799	199462	-57.99

+=high bias -=low bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56136737012 File : d0422012 Time : 04-APR-2006 23:59
Cal : 56136737001 Caldate: 04-APR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.04062]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01048]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	[7.930]	50.00	6.379	ug/L	!ib
Selenium	[0.2577]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.3092]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK d0422003)	ICALBLK Abund	Abund	%Drift
Lithium	591971	541927	-8.45
Scandium	262316	241523	-7.93
Germanium	62044	56237	-9.36
Indium	450084	418215	-7.08
Bismuth	474799	455893	-3.98

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56136737027 File : d0422027
Cal : 56136737001 Caldate: 04-APR-2006

IDF : 1.0
Time : 05-APR-2006 01:23

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.04798]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.3877]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2941]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK d0422003)	ICALBLK Abund	Abund	%Drift
Lithium	591971	337503	-42.99
Scandium	262316	106412	-59.43
Germanium	62044	25727	-58.53
Indium	450084	185416	-58.80
Bismuth	474799	296650	-37.52

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56136737041 File : d0422041 Time : 05-APR-2006 02:41
Cal : 56136737001 Caldate: 04-APR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.03518]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.07446]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2345]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2244]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK d0422003)	ICALBLK Abund	Abund	%Drift
Lithium	591971	432402	-26.96
Scandium	262316	169226	-35.49
Germanium	62044	42595	-31.35
Indium	450084	301395	-33.04
Bismuth	474799	409637	-13.72

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56136737057 File : d0422057
Cal : 56136737001 Caldate: 04-APR-2006

IDF : 1.0
Time : 05-APR-2006 04:11

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	[0.1839]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.005551]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	1.299	0.5000	0.1891	ug/L	ib ***
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2163]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK d0422003)	ICALBLK Abund	Abund	%Drift
Lithium	591971	290698	-50.89
Scandium	262316	84926	-67.62
Germanium	62044	19704	-68.24
Indium	450084	138487	-69.23
Bismuth	474799	207107	-56.38

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56136737013 File : d0422013 Time : 05-APR-2006 00:04
Cal : 56136737001 Caldate: 04-APR-2006
Standards: S2893, 05WS0207

Analyte	Quant	RL	Units	Flags
Antimony	2.049	0.2500	ug/L	
Arsenic	[0.3346]	0.5000	ug/L	
Barium	0.9006	0.2500	ug/L	
Beryllium	[0.008976]	0.2500	ug/L	
Cadmium	[0.03942]	0.2500	ug/L	
Chromium	1.022	0.5000	ug/L	
Cobalt	2.508	0.2500	ug/L	
Copper	1.200	0.5000	ug/L	
Lead	1.138	0.2500	ug/L	
Manganese	0.9501	0.2500	ug/L	
Nickel	1.303	0.2500	ug/L	
Selenium	[0]	0.5000	ug/L	
Silver	[0.1197]	0.2500	ug/L	
Thallium	[0.2460]	0.5000	ug/L	
Vanadium	[0.06105]	1.000	ug/L	
Zinc	1.650	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	91070	ug/L	91
Calcium	300000	299700	ug/L	100
Iron	250000	225500	ug/L	90
Magnesium	100000	97220	ug/L	97
Molybdenum	2000	1944	ug/L	97
Potassium	100000	95750	ug/L	96
Sodium	250000	232600	ug/L	93

ISTD (ICALBLK d0422003)	ICALBLK Abund	Abund	%Drift
Lithium	591971	459544	-22.37
Scandium	262316	213061	-18.78
Germanium	62044	56121	-9.55
Indium	450084	355500	-21.01
Bismuth	474799	378921	-20.19

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56136737014 File : d0422014 Time : 05-APR-2006 00:10
Cal : 56136737001 Caldate: 04-APR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	90550	ug/L	-9		
Arsenic	100.0	94.27	ug/L	-6	20	
Cadmium	100.0	84.08	ug/L	-16	20	
Calcium	300000	299200	ug/L	0		
Chromium	200.0	201.6	ug/L	1	20	
Cobalt	200.0	197.9	ug/L	-1	20	
Copper	200.0	178.9	ug/L	-11	20	
Iron	250000	221100	ug/L	-12		
Magnesium	100000	96290	ug/L	-4		
Manganese	200.0	205.1	ug/L	3	20	
Molybdenum	2000	1912	ug/L	-4		
Nickel	200.0	185.2	ug/L	-7	20	
Potassium	100000	96340	ug/L	-4		
Selenium	100.0	84.12	ug/L	-16	20	
Silver	50.00	42.50	ug/L	-15	20	
Sodium	250000	231900	ug/L	-7		
Vanadium	200.0	205.8	ug/L	3	20	
Zinc	100.0	84.96	ug/L	-15	20	

ISTD (ICALBLK d0422003)	ICALBLK Abund	Abund	%Drift
Scandium	262316	229204	-12.62
Germanium	62044	60329	-2.76

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56136737058 File : d0422058 Time : 05-APR-2006 04:17
Cal : 56136737001 Caldate: 04-APR-2006
Standards: S2893, 05WS0207

Analyte	Quant	RL	Units	Flags
Antimony	2.003	0.2500	ug/L	i-
Arsenic	[0.4801]	0.5000	ug/L	i-
Barium	0.8872	0.2500	ug/L	i-
Beryllium	[0.008413]	0.2500	ug/L	
Cadmium	[0.1124]	0.2500	ug/L	i-
Chromium	1.167	0.5000	ug/L	i-
Cobalt	2.866	0.2500	ug/L	i-
Copper	1.166	0.5000	ug/L	i-
Lead	1.237	0.2500	ug/L	i-
Manganese	0.9673	0.2500	ug/L	i-
Nickel	1.262	0.2500	ug/L	i-
Selenium	[0.4168]	0.5000	ug/L	i-
Silver	[0.09669]	0.2500	ug/L	i-
Thallium	[0.1896]	0.5000	ug/L	i-
Vanadium	[0.1156]	1.000	ug/L	i-
Zinc	1.699	1.000	ug/L	i-

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	86560	ug/L	87
Calcium	300000	293700	ug/L	98
Iron	250000	256700	ug/L	103
Magnesium	100000	94900	ug/L	95
Molybdenum	2000	1921	ug/L	96
Potassium	100000	89300	ug/L	89
Sodium	250000	260800	ug/L	104

ISTD (ICALBLK d0422003)	ICALBLK Abund	Abund	%Drift
Lithium	591971	225542	-61.90
Scandium	262316	71621	-72.70 *
Germanium	62044	17575	-71.67 *
Indium	450084	110382	-75.48 *
Bismuth	474799	142012	-70.09 *

-=low bias i=ISTD failure

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56136737059 File : d0422059 Time : 05-APR-2006 04:22
Cal : 56136737001 Caldate: 04-APR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	90440	ug/L	-10		
Arsenic	100.0	93.93	ug/L	-6	20	
Cadmium	100.0	82.72	ug/L	-17	20	
Calcium	300000	294500	ug/L	-2		
Chromium	200.0	228.6	ug/L	14	20	
Cobalt	200.0	221.4	ug/L	11	20	
Copper	200.0	204.9	ug/L	2	20	
Iron	250000	258200	ug/L	3		
Magnesium	100000	97840	ug/L	-2		
Manganese	200.0	226.2	ug/L	13	20	
Molybdenum	2000	1898	ug/L	-5		
Nickel	200.0	217.7	ug/L	9	20	
Potassium	100000	91080	ug/L	-9		
Selenium	100.0	79.65	ug/L	-20	20	
Silver	50.00	42.21	ug/L	-16	20	
Sodium	250000	262900	ug/L	5		
Vanadium	200.0	224.8	ug/L	12	20	
Zinc	100.0	95.56	ug/L	-4	20	

ISTD (ICALBLK d0422003)	ICALBLK Abund	Abund	%Drift
Scandium	262316	71891	-72.59 *
Germanium	62044	17611	-71.62 *

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56136737 Instrument: MET05 Agilent ICP-MS Begun: 04-APR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	d0422001	TUN				04-APR-2006 22:57	1.0	1.0				1	
003	d0422003	ICALBLK	std-blk			04-APR-2006 23:09	1.0	1.0				2	
004	d0422004	ICAL	CS1			04-APR-2006 23:14	1.0	1.0				3	
005	d0422005	ICAL	CS2			04-APR-2006 23:20	1.0	1.0				4	
006	d0422006	ICAL	CS3			04-APR-2006 23:25	1.0	1.0				5	
007	d0422007	ICAL	CS4			04-APR-2006 23:31	1.0	1.0				6	
008	d0422008	ICAL	CS5			04-APR-2006 23:37	1.0	1.0				7	
009	d0422009	ICAL	CS6			04-APR-2006 23:42	1.0	1.0				8	
010	d0422010	ICV				04-APR-2006 23:47	1.0	1.0			1	9	
012	d0422012	ICB				04-APR-2006 23:59	1.0	1.0			1	2	
013	d0422013	ICSA				05-APR-2006 00:04	1.0	1.0			1	10 2	7:CA=299700
014	d0422014	ICSAB				05-APR-2006 00:10	1.0	1.0			1	11 2	10:CA=299200
017	d0422017	BLANK	QC333522	111808	Filtra	05-APR-2006 00:27	1.0	1.0	3		1	2	
018	d0422018	BS	QC333523	111808	Filtra	05-APR-2006 00:32	1.0	1.0	3		1	2	
019	d0422019	BSD	QC333524	111808	Filtra	05-APR-2006 00:38	1.0	1.0	3		1	2	
020	d0422020	MSS	185622-020	111808	Filtra	05-APR-2006 00:44	1.0	1.0	8		1	2	5:CA=170500
021	d0422021	SER	QC333527	111808	Filtra	05-APR-2006 00:49	5.0	1.0	2	2	1	2	1:CA=35260.0
022	d0422022	MS	QC333525	111808	Filtra	05-APR-2006 00:55	1.0	1.0	2		1	2	5:CA=176200
023	d0422023	MSD	QC333526	111808	Filtra	05-APR-2006 01:00	1.0	1.0	2		1	2	5:CA=175000
025	d0422025	CCV				05-APR-2006 01:11	1.0	1.0	3		1	12	
027	d0422027	CCB				05-APR-2006 01:23	1.0	1.0			1	2	
028	d0422028	PDS	QC333528	111808	Filtra	05-APR-2006 01:28	1.0	1.0	2		1	13	5:CA=177200
029	d0422029	SAMPLE	185622-021	111808	Filtra	05-APR-2006 01:34	1.0	1.0	7		1	2	4:MG=194500
030	d0422030	SAMPLE	185622-022	111808	Filtra	05-APR-2006 01:39	1.0	1.0	6		1	2	3:MG=41740.0
031	d0422031	SAMPLE	185622-023	111808	Filtra	05-APR-2006 01:45	1.0	1.0	6		1	2	3:MG=59260.0
032	d0422032	SAMPLE	185622-024	111808	Filtra	05-APR-2006 01:51	1.0	1.0	6		1	2	3:NA=224200
033	d0422033	SAMPLE	185622-025	111808	Filtra	05-APR-2006 01:56	1.0	1.0	6		1	2	3:NA=243000
034	d0422034	SAMPLE	185622-026	111808	Filtra	05-APR-2006 02:02	1.0	1.0	9		1	2	6:NA=351200
035	d0422035	SAMPLE	185622-027	111808	Filtra	05-APR-2006 02:07	1.0	1.0	5		1	2	2:NA=98210.0
036	d0422036	SAMPLE	185622-028	111808	Filtra	05-APR-2006 02:13	1.0	1.0	6		1	2	3:MG=54960.0
037	d0422037	SAMPLE	185622-029	111808	Filtra	05-APR-2006 02:19	1.0	1.0	6		1	2	3:NA=163300

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [illegible] Date: 4/4/6

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56136737 Instrument: MET05 Agilent ICP-MS Begun: 04-APR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
039	d0422039	CCV				05-APR-2006 02:30	1.0	1.0	1		1	12	
041	d0422041	CCB				05-APR-2006 02:41	1.0	1.0			1	2	
046	d0422046	SAMPLE	185622-030	111808	Filtra	05-APR-2006 03:09	1.0	1.0	8		1	2	3:MG=54250.0
047	d0422047	SAMPLE	185622-031	111808	Filtra	05-APR-2006 03:15	1.0	1.0	8		1	2	3:NA=72730.0
048	d0422048	SAMPLE	185622-033	111808	Filtra	05-APR-2006 03:20	1.0	1.0	9		1	2	4:NA=144600
049	d0422049	SAMPLE	185622-034	111808	Filtra	05-APR-2006 03:26	1.0	1.0	8		1	2	3:NA=140700
050	d0422050	SAMPLE	185622-035	111808	Filtra	05-APR-2006 03:32	1.0	1.0	5		1	2	
051	d0422051	SAMPLE	185622-036	111808	Filtra	05-APR-2006 03:37	1.0	1.0	8		1	2	3:MG=38200.0
052	d0422052	SAMPLE	185622-037	111808	Filtra	05-APR-2006 03:43	1.0	1.0	8		1	2	3:NA=64420.0
053	d0422053	SAMPLE	185622-018	111808	Water	05-APR-2006 03:48	1.0	1.0	8		1	2	2:MG=74390.0
055	d0422055	CCV				05-APR-2006 04:00	1.0	1.0	7		1	12	
057	d0422057	CCB				05-APR-2006 04:11	1.0	1.0	1		1	2	
058	d0422058	ICSA				05-APR-2006 04:17	1.0	1.0			1	10 2	7:CA=293700
059	d0422059	ICSAB				05-APR-2006 04:22	1.0	1.0			1	11 2	13:CA=294500

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Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: Mesu Date: 4/4/6

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET08
Calnum : 86136397001
Units : ug/L

Date : 04-APR-2006 17:17
X Axis : R

Reviewer: ---
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	040406ar.txt	86136397002	CRIM08	04-APR-2006 17:21	S2544
L2	040406ar.txt	86136397003	CS100	04-APR-2006 17:24	S2568
L3	040406ar.txt	86136397004	CS1K	04-APR-2006 17:28	S2567
L4	040406ar.txt	86136397005	CS10K	04-APR-2006 17:30	S2569
L5	040406ar.txt	86136397006	CS100K	04-APR-2006 17:33	S2556

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	37.914	42.153	42.544	42.082		LOR0	0.00000	0.02376		41.173	1.000	0.995	
Arsenic	A	23.709	22.151	22.199	22.046		LOR0	0.00000	0.04536		22.526	1.000	0.995	
Barium	A	442.91	436.17	430.15	421.43		LOR0	0.00000	0.00237		432.67	1.000	0.995	
Beryllium	A	3889.6	3897.5	3825.4			LOR0	0.00000	2.61E-4		3870.8	1.000	0.995	
Boron	A	161.41		162.12	166.91		LOR0	0.00000	0.00599		163.48	1.000	0.995	
Cadmium	A	376.70	386.75	381.84	369.68		LOR0	0.00000	0.00270		378.75	1.000	0.995	
Chromium	A	130.78	108.76	107.70	105.98		LOR0	0.00000	0.00943		113.31	1.000	0.995	
Cobalt	A	119.77	120.46	123.96	121.11		LOR0	0.00000	0.00826		121.32	1.000	0.995	609
Copper	A	758.86	733.63	745.76	745.69		LOR0	0.00000	0.00134		745.98	1.000	0.995	
Lead	A	59.072	59.915	60.178	58.248		LOR0	0.00000	0.01716		59.353	1.000	0.995	
Manganese	A	1041.6	1027.8	1014.1	970.75		LOR0	0.00000	0.00103		1013.6	1.000	0.995	
Molybdenum	A	49.134	49.693	49.700	48.886		LOR0	0.00000	0.02045		49.353	1.000	0.995	
Nickel	A	62.337	66.569	68.234	66.168		LOR0	0.00000	0.01511		65.827	1.000	0.995	
Selenium	A	23.141	21.612	21.619	21.607		LOR0	0.00000	0.04628		21.995	1.000	0.995	
Silver	A	449.42	487.09	481.61	481.84		LOR0	0.00000	0.00208		474.99	1.000	0.995	
Thallium	A	23.028	24.029	24.620	24.080		LOR0	0.00000	0.04152		23.939	1.000	0.995	
Tin	A	23.205	23.710	24.094	23.804		LOR0	0.00000	0.04200		23.704	1.000	0.995	
Titanium	A	1124.3	1148.6	1119.7	1098.3		LOR0	0.00000	9.10E-4		1122.7	1.000	0.995	
Vanadium	A	145.01	142.23	142.53	144.28		LOR0	0.00000	0.00693		143.51	1.000	0.995	
Zinc	A	134.38	128.22	129.06	129.23		LOR0	0.00000	0.00774		130.22	1.000	0.995	
Aluminum	R	1.4568		1.6407	1.7362	1.7965	LOR0	0.00000	0.55683		1.6576	1.000	0.995	
Calcium	R	12.247		12.001	12.480	12.583	LOR0	0.00000	0.07948		12.328	1.000	0.995	
Iron	R	12.721		12.139	12.231	12.216	LOR0	0.00000	0.08186		12.327	1.000	0.995	
Magnesium	R	2.0748		2.1420	2.1437	2.1262	LOR0	0.00000	0.47029		2.1217	1.000	0.995	
Potassium	R	5.0882		4.9980	5.2211	5.2561	LOR0	0.00000	0.19027		5.1409	1.000	0.995	
Sodium	R	11.551		11.131	11.289	11.244	LOR0	0.00000	0.08894		11.304	1.000	0.995	

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LOR0=Linear regression forced thru origin, including 0,0 point

Instrument amount = a0 + response * a1 + response^2 * a2

86136397001

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 4/4/2006 5:17:18 PM
Data Type: Reprocessed on 4/4/2006 6:09:03 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	-2216.3	221.82	10.01%	[0.00]	ug/L
Al 308.215 R	157.3	3.58	2.28%	[0.00]	ug/L
As 188.979	-229.4	7.16	3.12%	[0.00]	ug/L
B 249.677	4.0	8.05	201.02%	[0.00]	ug/L
Ba 233.527	-282.8	9.23	3.27%	[0.00]	ug/L
Be 313.107	-779.2	114.32	14.67%	[0.00]	ug/L
Ca 315.887 R	718.4	8.65	1.20%	[0.00]	ug/L
Cd 214.440	-7.5	5.05	67.14%	[0.00]	ug/L
Co 228.616	-198.6	4.30	2.16%	[0.00]	ug/L
Cr 267.716	68.3	19.05	27.89%	[0.00]	ug/L
Cu 324.752	-337.0	54.74	16.24%	[0.00]	ug/L
Fe 238.204 R	131.8	3.35	2.55%	[0.00]	ug/L
K 766.490 R	-4357.2	166.76	3.83%	[0.00]	ug/L
Mg 279.077 R	-159.9	6.52	4.08%	[0.00]	ug/L
Mn 257.610	323.1	3.31	1.03%	[0.00]	ug/L
Mo 202.031	-13.5	7.74	57.43%	[0.00]	ug/L
Na 589.592 R	4618.1	83.22	1.80%	[0.00]	ug/L
Ni 231.604	333.4	14.87	4.46%	[0.00]	ug/L
Pb 220.353	108.1	33.04	30.55%	[0.00]	ug/L
Sb 206.836	757.2	14.11	1.86%	[0.00]	ug/L
Se 196.026	-138.0	5.57	4.03%	[0.00]	ug/L
Ti 334.940 R	398.4	60.51	15.19%	[0.00]	ug/L
Tl 190.801	205.0	2.30	1.12%	[0.00]	ug/L
V 292.402	-1127.4	13.07	1.16%	[0.00]	ug/L
Zn 206.200	-551.2	4.10	0.74%	[0.00]	ug/L
Sn 189.927	5.6	9.04	160.25%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 4/4/2006 5:21:47 PM
Data Type: Reprocessed on 4/4/2006 6:09:04 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2321860.1	27784.77	1.20%	100.0	%
Y	319959.2	3682.53	1.15%	100.0	%
Ag 328.068†	2247.1	105.17	4.68%	[5.0]	ug/L
Al 308.215 R†	145.7	60.33	41.41%	[100]	ug/L
As 188.979†	118.5	1.83	1.55%	[5.0]	ug/L
B 249.677†	16140.5	316.89	1.96%	[100]	ug/L
Ba 233.527†	2214.6	35.81	1.62%	[5.0]	ug/L
Be 313.107†	7779.3	179.41	2.31%	[2.0]	ug/L
Ca 315.887 R†	2449.5	76.35	3.12%	[200]	ug/L
Cd 214.440†	1883.5	27.42	1.46%	[5.0]	ug/L
Co 228.616†	598.8	9.58	1.60%	[5.0]	ug/L
Cr 267.716†	653.9	16.86	2.58%	[5.0]	ug/L
Cu 324.752†	3794.3	136.68	3.60%	[5.0]	ug/L
Fe 238.204 R†	1272.1	32.15	2.53%	[100]	ug/L
K 766.490 R†	2544.1	64.86	2.55%	[500]	ug/L
Mg 279.077 R†	415.0	34.39	8.29%	[200]	ug/L
Mn 257.610†	5208.1	70.09	1.35%	[5.0]	ug/L
Mo 202.031†	245.7	4.18	1.70%	[5.0]	ug/L
Na 589.592 R†	5775.5	157.36	2.72%	[500]	ug/L
Ni 231.604†	311.7	21.69	6.96%	[5.0]	ug/L
Pb 220.353†	177.2	9.39	5.30%	[3.0]	ug/L
Sb 206.836†	189.6	41.74	22.02%	[5.0]	ug/L
Se 196.026†	115.7	25.46	22.01%	[5.0]	ug/L
Ti 334.940 R†	11242.6	293.29	2.61%	[10]	ug/L
Tl 190.801†	115.1	10.39	9.02%	[5.0]	ug/L
V 292.402†	725.1	3.25	0.45%	[5.0]	ug/L
Zn 206.200†	2687.5	29.03	1.08%	[20]	ug/L
Sn 189.927†	928.2	9.93	1.07%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 4/4/2006 5:24:57 PM
Data Type: Reprocessed on 4/4/2006 6:09:05 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2344942.0	15277.31	0.65%	101.0	%
Y	327004.0	4704.04	1.44%	102.2	%
Ag 328.068†	48709.5	236.62	0.49%	[100]	ug/L
As 188.979†	2215.1	21.23	0.96%	[100]	ug/L
Ba 233.527†	43616.7	312.09	0.72%	[100]	ug/L
Be 313.107†	389745.9	2114.47	0.54%	[100]	ug/L
Cd 214.440†	38675.4	331.22	0.86%	[100]	ug/L
Co 228.616†	12045.9	73.79	0.61%	[100]	ug/L
Cr 267.716†	10876.3	55.64	0.51%	[100]	ug/L
Cu 324.752†	73362.8	829.13	1.13%	[100]	ug/L
Mn 257.610†	102782.9	704.94	0.69%	[100]	ug/L
Mo 202.031†	4969.3	30.35	0.61%	[100]	ug/L
Ni 231.604†	6656.9	39.38	0.59%	[100]	ug/L
Pb 220.353†	5991.5	59.66	1.00%	[100]	ug/L
Sb 206.836†	4215.3	27.55	0.65%	[100]	ug/L
Se 196.026†	2161.2	41.34	1.91%	[100]	ug/L
Ti 334.940 R†	114857.7	942.30	0.82%	[100]	ug/L
Tl 190.801†	2402.9	24.20	1.01%	[100]	ug/L
V 292.402†	14223.2	58.19	0.41%	[100]	ug/L
Zn 206.200†	12821.9	60.11	0.47%	[100]	ug/L
Sn 189.927†	2371.0	26.35	1.11%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 4/4/2006 5:28:03 PM
Data Type: Reprocessed on 4/4/2006 6:09:05 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2344499.5	8011.59	0.34%	101.0	%
Y	318435.7	7365.44	2.31%	99.52	%
Ag 328.068†	481606.4	993.48	0.21%	[1000]	ug/L
Al 308.215 R†	1640.7	61.15	3.73%	[1000]	ug/L
As 188.979†	22199.0	104.71	0.47%	[1000]	ug/L
B 249.677†	162120.5	885.42	0.55%	[1000]	ug/L
Ba 233.527†	430152.2	3005.27	0.70%	[1000]	ug/L
Be 313.107†	3825368.0	11822.75	0.31%	[1000]	ug/L
Ca 315.887 R†	12000.8	118.37	0.99%	[1000]	ug/L
Cd 214.440†	381843.6	2559.16	0.67%	[1000]	ug/L
Co 228.616†	123955.1	877.97	0.71%	[1000]	ug/L
Cr 267.716†	107699.9	682.26	0.63%	[1000]	ug/L
Cu 324.752†	745762.3	3120.35	0.42%	[1000]	ug/L
Fe 238.204 R†	12139.1	165.84	1.37%	[1000]	ug/L
K 766.490 R†	4998.0	194.34	3.89%	[1000]	ug/L
Mg 279.077 R†	2142.0	56.82	2.65%	[1000]	ug/L
Mn 257.610†	1014143.8	5726.37	0.56%	[1000]	ug/L
Mo 202.031†	49699.6	296.43	0.60%	[1000]	ug/L
Na 589.592 R†	11130.7	294.05	2.64%	[1000]	ug/L
Ni 231.604†	68234.2	324.92	0.48%	[1000]	ug/L
Pb 220.353†	60177.8	208.32	0.35%	[1000]	ug/L
Sb 206.836†	42544.3	328.64	0.77%	[1000]	ug/L
Se 196.026†	21619.1	234.54	1.08%	[1000]	ug/L
Ti 334.940 R†	1119743.6	6201.36	0.55%	[1000]	ug/L
Tl 190.801†	24620.3	144.08	0.59%	[1000]	ug/L
V 292.402†	142527.8	772.11	0.54%	[1000]	ug/L
Zn 206.200†	129061.5	784.20	0.61%	[1000]	ug/L
Sn 189.927†	24094.3	242.68	1.01%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 4/4/2006 5:30:16 PM
Data Type: Reprocessed on 4/4/2006 6:09:06 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2266771.6	5880.93	0.26%	97.63	%
Y	306655.7	2871.28	0.94%	95.84	%
Ag 328.068†	963676.1	3353.62	0.35%	[2000]	ug/L
Al 308.215 R†	17362.4	30.05	0.17%	[10000]	ug/L
As 188.979†	220459.9	626.64	0.28%	[10000]	ug/L
B 249.677†	1669145.9	9905.66	0.59%	[10000]	ug/L
Ba 233.527†	4214312.8	36786.28	0.87%	[10000]	ug/L
Ca 315.887 R†	124801.4	248.88	0.20%	[10000]	ug/L
Cd 214.440†	3696839.7	36964.46	1.00%	[10000]	ug/L
Co 228.616†	1211077.3	4636.43	0.38%	[10000]	ug/L
Cr 267.716†	1059842.0	3739.25	0.35%	[10000]	ug/L
Cu 324.752†	7456864.4	56922.85	0.76%	[10000]	ug/L
Fe 238.204 R†	122314.1	222.51	0.18%	[10000]	ug/L
K 766.490 R†	52211.0	155.59	0.30%	[10000]	ug/L
Mg 279.077 R†	21437.3	59.10	0.28%	[10000]	ug/L
Mn 257.610†	9707450.0	85673.17	0.88%	[10000]	ug/L
Mo 202.031†	488861.8	637.62	0.13%	[10000]	ug/L
Na 589.592 R†	112894.7	487.83	0.43%	[10000]	ug/L
Ni 231.604†	661675.5	1869.75	0.28%	[10000]	ug/L
Pb 220.353†	582482.1	995.77	0.17%	[10000]	ug/L
Sb 206.836†	420821.8	1680.44	0.40%	[10000]	ug/L
Se 196.026†	216073.9	279.48	0.13%	[10000]	ug/L
Ti 334.940 R†	10982976.2	96876.58	0.88%	[10000]	ug/L
Tl 190.801†	240796.5	501.02	0.21%	[10000]	ug/L
V 292.402†	1442838.9	5056.47	0.35%	[10000]	ug/L
Zn 206.200†	1292284.8	3151.63	0.24%	[10000]	ug/L
Sn 189.927†	238041.9	440.31	0.18%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 4/4/2006 5:33:04 PM
Data Type: Reprocessed on 4/4/2006 6:09:07 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2147923.6	14463.36	0.67%	92.51	%
Y	301466.0	3325.98	1.10%	94.22	%
Al 308.215 R†	179649.8	1000.15	0.56%	[100000]	ug/L
Ca 315.887 R†	1258268.1	3633.51	0.29%	[100000]	ug/L
Fe 238.204 R†	1221596.7	5743.79	0.47%	[100000]	ug/L
K 766.490 R†	525611.9	3278.16	0.62%	[100000]	ug/L
Mg 279.077 R†	212619.2	433.46	0.20%	[100000]	ug/L
Na 589.592 R†	1124353.6	6389.13	0.57%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	481.8	0.00000	1.000000	
Al 308.215 R	4	Lin Thru 0	0.0	1.796	0.00000	0.999994	
As 188.979	4	Lin Thru 0	0.0	22.05	0.00000	1.000000	
B 249.677	3	Lin Thru 0	0.0	166.9	0.00000	0.999996	
Ba 233.527	4	Lin Thru 0	0.0	421.5	0.00000	0.999998	
Be 313.107	3	Lin Thru 0	0.0	3826	0.00000	0.999998	
Ca 315.887 R	4	Lin Thru 0	0.0	12.58	0.00000	1.000000	
Cd 214.440	4	Lin Thru 0	0.0	369.8	0.00000	0.999995	
Co 228.616	4	Lin Thru 0	0.0	121.1	0.00000	0.999997	
Cr 267.716	4	Lin Thru 0	0.0	106.0	0.00000	0.999999	
Cu 324.752	4	Lin Thru 0	0.0	745.7	0.00000	1.000000	
Fe 238.204 R	4	Lin Thru 0	0.0	12.22	0.00000	1.000000	
K 766.490 R	4	Lin Thru 0	0.0	5.256	0.00000	1.000000	
Mg 279.077 R	4	Lin Thru 0	0.0	2.126	0.00000	1.000000	
Mn 257.610	4	Lin Thru 0	0.0	971.2	0.00000	0.999990	
Mo 202.031	4	Lin Thru 0	0.0	48.89	0.00000	0.999999	
Na 589.592 R	4	Lin Thru 0	0.0	11.24	0.00000	1.000000	
Ni 231.604	4	Lin Thru 0	0.0	66.19	0.00000	0.999995	
Pb 220.353	4	Lin Thru 0	0.0	58.27	0.00000	0.999995	
Sb 206.836	4	Lin Thru 0	0.0	42.09	0.00000	0.999999	
Se 196.026	4	Lin Thru 0	0.0	21.61	0.00000	1.000000	
Ti 334.940 R	4	Lin Thru 0	0.0	1099	0.00000	0.999998	
Tl 190.801	4	Lin Thru 0	0.0	24.08	0.00000	0.999998	
V 292.402	4	Lin Thru 0	0.0	144.3	0.00000	0.999999	
Zn 206.200	4	Lin Thru 0	0.0	129.2	0.00000	1.000000	
Sn 189.927	4	Lin Thru 0	0.0	23.81	0.00000	0.999999	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397007 File : 040406ar.txt Time : 04-APR-2006 17:35
Cal : 86136397001 Caldate: 04-APR-2006
Standards: S3049

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	41.173	41.801	5000	4966	ug/L	-1	10	
Arsenic	A	22.526	21.803	5000	4945	ug/L	-1	10	
Barium	A	432.67	416.65	5000	4942	ug/L	-1	10	
Beryllium	A	3870.8	3779.2	500.0	493.9	ug/L	-1	10	
Boron	A	163.48	164.32	5000	4924	ug/L	-2	10	
Cadmium	A	378.75	365.76	5000	4945	ug/L	-1	10	
Chromium	A	113.31	102.59	5000	4839	ug/L	-3	10	
Cobalt	A	121.32	115.97	5000	4777	ug/L	-4	10	
Copper	A	745.98	705.84	5000	4733	ug/L	-5	10	
Lead	A	59.353	55.972	5000	4803	ug/L	-4	10	
Manganese	A	1013.6	950.91	5000	4896	ug/L	-2	10	
Molybdenum	A	49.353	49.040	5000	5015	ug/L	0	10	
Nickel	A	65.827	64.181	5000	4848	ug/L	-3	10	
Selenium	A	21.995	21.083	5000	4879	ug/L	-2	10	
Silver	A	474.99	453.62	1000	941.5	ug/L	-6	10	
Thallium	A	23.939	23.532	5000	4885	ug/L	-2	10	
Tin	A	23.704	23.001	5000	4831	ug/L	-3	10	
Titanium	A	1122.7	1066.7	5000	4855	ug/L	-3	10	
Vanadium	A	143.51	139.98	5000	4851	ug/L	-3	10	
Zinc	A	130.22	125.34	5000	4850	ug/L	-3	10	
Aluminum	R	1.6576	1.6487	20000	18360	ug/L	-8	10	
Calcium	R	12.328	11.770	20000	18710	ug/L	-6	10	
Iron	R	12.327	11.522	20000	18860	ug/L	-6	10	
Magnesium	R	2.1217	2.0112	20000	18920	ug/L	-5	10	
Potassium	R	5.1409	4.9323	20000	18770	ug/L	-6	10	
Sodium	R	11.304	10.585	20000	18830	ug/L	-6	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	2257273	-2.78

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397020 File : 040406ar.txt Time : 04-APR-2006 18:53
Cal : 86136397001 Caldate: 04-APR-2006
Standards: S3050

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	41.173	42.813	5000	5086	ug/L	2	10	
Arsenic	A	22.526	22.068	5000	5005	ug/L	0	10	
Barium	A	432.67	419.91	5000	4981	ug/L	0	10	
Beryllium	A	3870.8	3815.1	500.0	498.6	ug/L	0	10	
Boron	A	163.48	165.20	5000	4950	ug/L	-1	10	
Cadmium	A	378.75	368.30	5000	4980	ug/L	0	10	
Chromium	A	113.31	103.65	5000	4889	ug/L	-2	10	
Cobalt	A	121.32	117.02	5000	4820	ug/L	-4	10	
Copper	A	745.98	711.69	5000	4772	ug/L	-5	10	
Lead	A	59.353	56.425	5000	4842	ug/L	-3	10	
Manganese	A	1013.6	954.91	5000	4916	ug/L	-2	10	
Molybdenum	A	49.353	49.244	5000	5036	ug/L	1	10	
Nickel	A	65.827	64.950	5000	4907	ug/L	-2	10	
Selenium	A	21.995	21.220	5000	4910	ug/L	-2	10	
Silver	A	474.99	458.66	1000	952.0	ug/L	-5	10	
Thallium	A	23.939	23.535	5000	4886	ug/L	-2	10	
Tin	A	23.704	23.266	5000	4886	ug/L	-2	10	
Titanium	A	1122.7	1076.9	5000	4902	ug/L	-2	10	
Vanadium	A	143.51	141.56	5000	4906	ug/L	-2	10	
Zinc	A	130.22	126.29	5000	4886	ug/L	-2	10	
Aluminum	R	1.6576	1.6660	20000	18550	ug/L	-7	10	
Calcium	R	12.328	12.100	20000	19230	ug/L	-4	10	
Iron	R	12.327	11.771	20000	19270	ug/L	-4	10	
Magnesium	R	2.1217	2.0663	20000	19440	ug/L	-3	10	
Potassium	R	5.1409	4.9626	20000	18880	ug/L	-6	10	
Sodium	R	11.304	10.669	20000	18980	ug/L	-5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	2254103	-2.92

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397034 File : 040406ar.txt Time : 04-APR-2006 19:45
Cal : 86136397001 Caldate: 04-APR-2006
Standards: S3050

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	41.173	41.983	5000	4988	ug/L	0	10	
Arsenic	A	22.526	21.678	5000	4916	ug/L	-2	10	
Barium	A	432.67	417.86	5000	4957	ug/L	-1	10	
Beryllium	A	3870.8	3787.4	500.0	494.9	ug/L	-1	10	
Boron	A	163.48	163.62	5000	4903	ug/L	-2	10	
Cadmium	A	378.75	365.55	5000	4942	ug/L	-1	10	
Chromium	A	113.31	101.20	5000	4774	ug/L	-5	10	
Cobalt	A	121.32	116.31	5000	4791	ug/L	-4	10	
Copper	A	745.98	710.60	5000	4765	ug/L	-5	10	
Lead	A	59.353	55.272	5000	4743	ug/L	-5	10	
Manganese	A	1013.6	951.32	5000	4898	ug/L	-2	10	
Molybdenum	A	49.353	48.518	5000	4962	ug/L	-1	10	
Nickel	A	65.827	63.720	5000	4814	ug/L	-4	10	
Selenium	A	21.995	20.826	5000	4819	ug/L	-4	10	
Silver	A	474.99	451.79	1000	937.7	ug/L	-6	10	
Thallium	A	23.939	23.217	5000	4820	ug/L	-4	10	
Tin	A	23.704	22.953	5000	4821	ug/L	-4	10	
Titanium	A	1122.7	1073.8	5000	4887	ug/L	-2	10	
Vanadium	A	143.51	140.68	5000	4876	ug/L	-2	10	
Zinc	A	130.22	125.31	5000	4848	ug/L	-3	10	
Aluminum	R	1.6576	1.6749	20000	18650	ug/L	-7	10	
Calcium	R	12.328	12.141	20000	19300	ug/L	-4	10	
Iron	R	12.327	11.828	20000	19360	ug/L	-3	10	
Magnesium	R	2.1217	2.0563	20000	19340	ug/L	-3	10	
Potassium	R	5.1409	4.9948	20000	19010	ug/L	-5	10	
Sodium	R	11.304	10.796	20000	19200	ug/L	-4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	2242873	-3.40

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397048 File : 040406ar.txt Time : 04-APR-2006 20:40
Cal : 86136397001 Caldate: 04-APR-2006
Standards: S3050

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	41.173	42.053	5000	4996	ug/L	0	10	
Arsenic	A	22.526	21.663	5000	4913	ug/L	-2	10	
Barium	A	432.67	417.84	5000	4956	ug/L	-1	10	
Beryllium	A	3870.8	3785.6	500.0	494.7	ug/L	-1	10	
Boron	A	163.48	163.70	5000	4905	ug/L	-2	10	
Cadmium	A	378.75	364.85	5000	4933	ug/L	-1	10	
Chromium	A	113.31	103.01	5000	4859	ug/L	-3	10	
Cobalt	A	121.32	116.28	5000	4790	ug/L	-4	10	
Copper	A	745.98	711.17	5000	4769	ug/L	-5	10	
Lead	A	59.353	55.477	5000	4761	ug/L	-5	10	
Manganese	A	1013.6	948.57	5000	4884	ug/L	-2	10	
Molybdenum	A	49.353	48.674	5000	4977	ug/L	0	10	
Nickel	A	65.827	63.951	5000	4831	ug/L	-3	10	
Selenium	A	21.995	20.735	5000	4798	ug/L	-4	10	
Silver	A	474.99	453.05	1000	940.3	ug/L	-6	10	
Thallium	A	23.939	23.141	5000	4804	ug/L	-4	10	
Tin	A	23.704	22.994	5000	4829	ug/L	-3	10	
Titanium	A	1122.7	1073.9	5000	4888	ug/L	-2	10	
Vanadium	A	143.51	140.82	5000	4881	ug/L	-2	10	
Zinc	A	130.22	125.04	5000	4838	ug/L	-3	10	
Aluminum	R	1.6576	1.6673	20000	18570	ug/L	-7	10	
Calcium	R	12.328	12.177	20000	19360	ug/L	-3	10	
Iron	R	12.327	11.821	20000	19350	ug/L	-3	10	
Magnesium	R	2.1217	2.0674	20000	19450	ug/L	-3	10	
Potassium	R	5.1409	4.9899	20000	18990	ug/L	-5	10	
Sodium	R	11.304	10.797	20000	19210	ug/L	-4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	2256138	-2.83

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397054 File : 040406ar.txt Time : 04-APR-2006 20:59
Cal : 86136397001 Caldate: 04-APR-2006
Standards: S3050

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	41.173	42.139	5000	5006	ug/L	0	10	
Arsenic	A	22.526	21.651	5000	4910	ug/L	-2	10	
Barium	A	432.67	419.84	5000	4980	ug/L	0	10	
Beryllium	A	3870.8	3804.0	500.0	497.1	ug/L	-1	10	
Boron	A	163.48	164.44	5000	4927	ug/L	-1	10	
Cadmium	A	378.75	366.28	5000	4952	ug/L	-1	10	
Chromium	A	113.31	103.52	5000	4883	ug/L	-2	10	
Cobalt	A	121.32	116.73	5000	4808	ug/L	-4	10	
Copper	A	745.98	715.23	5000	4796	ug/L	-4	10	
Lead	A	59.353	55.551	5000	4767	ug/L	-5	10	
Manganese	A	1013.6	953.12	5000	4907	ug/L	-2	10	
Molybdenum	A	49.353	48.672	5000	4977	ug/L	0	10	
Nickel	A	65.827	64.067	5000	4840	ug/L	-3	10	
Selenium	A	21.995	20.786	5000	4810	ug/L	-4	10	
Silver	A	474.99	453.49	1000	941.2	ug/L	-6	10	
Thallium	A	23.939	23.195	5000	4815	ug/L	-4	10	
Tin	A	23.704	22.930	5000	4816	ug/L	-4	10	
Titanium	A	1122.7	1080.8	5000	4919	ug/L	-2	10	
Vanadium	A	143.51	141.73	5000	4912	ug/L	-2	10	
Zinc	A	130.22	125.44	5000	4854	ug/L	-3	10	
Aluminum	R	1.6576	1.6613	20000	18500	ug/L	-7	10	
Calcium	R	12.328	12.160	20000	19330	ug/L	-3	10	
Iron	R	12.327	11.777	20000	19280	ug/L	-4	10	
Magnesium	R	2.1217	2.0598	20000	19370	ug/L	-3	10	
Potassium	R	5.1409	4.9122	20000	18690	ug/L	-7	10	
Sodium	R	11.304	10.656	20000	18950	ug/L	-5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	2240680	-3.50

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397008 File : 040406ar.txt Time : 04-APR-2006 17:38
Cal : 86136397001 Caldate: 04-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	[1.975]	5.000	1.047	ug/L	!ib
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	[38.71]	100.0	13.57	ug/L	!ib
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	[0.7796]	3.000	0.5698	ug/L	!ib
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[2.356]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[4.105]	5.000	0.9317	ug/L	!ib
Tin	A	[7.790]	40.00	4.403	ug/L	!ib
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	2332529	0.46

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397022 File : 040406ar.txt Time : 04-APR-2006 18:59
Cal : 86136397001 Caldate: 04-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[0.5127]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[0.9562]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	2326797	0.21

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397036 File : 040406ar.txt Time : 04-APR-2006 19:51
Cal : 86136397001 Caldate: 04-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	ND	5.000	0.4303	ug/L	
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[1.763]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	2304221	-0.76

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397050 File : 040406ar.txt Time : 04-APR-2006 20:46
Cal : 86136397001 Caldate: 04-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	[0.7003]	3.000	0.5698	ug/L	!ib
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	ND	5.000	0.4303	ug/L	
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	2309286	-0.54

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397056 File : 040406ar.txt Time : 04-APR-2006 21:05
Cal : 86136397001 Caldate: 04-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	[1.050]	5.000	1.047	ug/L	!ib
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[0.4456]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[1.185]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	2309831	-0.52

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397009 File : 040406ar.txt Time : 04-APR-2006 17:42
Cal : 86136397001 Caldate: 04-APR-2006
Standards: S2555

Analyte	Ch	Quant	RL	Units	Flags
Antimony	A	[1.530]	5.000	ug/L	
Arsenic	A	[-4.750]	5.000	ug/L	
Barium	A	[0.1347]	5.000	ug/L	
Beryllium	A	[0.04481]	2.000	ug/L	
Boron	A	[9.002]	100.0	ug/L	
Cadmium	A	[3.433]	5.000	ug/L	
Cobalt	A	[-1.900]	5.000	ug/L	
Lead	A	[-1.150]	3.000	ug/L	
Molybdenum	A	[-0.7944]	5.000	ug/L	
Selenium	A	[2.916]	5.000	ug/L	
Silver	A	[2.449]	5.000	ug/L	
Thallium	A	[-2.042]	5.000	ug/L	
Tin	A	[14.18]	40.00	ug/L	
Zinc	A	[6.483]	20.00	ug/L	
Potassium	R	[-1.318]	500.0	ug/L	
Sodium	R	[13.12]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19580	ug/L	98
Copper	A	20000	20620	ug/L	103
Manganese	A	20000	18910	ug/L	95
Nickel	A	20000	17770	ug/L	89
Titanium	A	20000	20350	ug/L	102
Vanadium	A	20000	20580	ug/L	103
Aluminum	R	500000	495500	ug/L	99
Calcium	R	500000	479400	ug/L	96
Iron	R	200000	186400	ug/L	93
Magnesium	R	500000	483700	ug/L	97

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	1951400	-15.96

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397010 File : 040406ar.txt Time : 04-APR-2006 18:17
Cal : 86136397001 Caldate: 04-APR-2006
Standards: S2570

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	534.9	ug/L	7	20	
Arsenic	A	500.0	518.4	ug/L	4	20	
Barium	A	500.0	526.3	ug/L	5	20	
Beryllium	A	500.0	522.8	ug/L	5	20	
Cadmium	A	1000	977.0	ug/L	-2	20	
Chromium	A	500.0	512.8	ug/L	3	20	
Cobalt	A	500.0	450.8	ug/L	-10	20	
Copper	A	500.0	499.4	ug/L	0	20	
Lead	A	1000	928.4	ug/L	-7	20	
Manganese	A	500.0	515.3	ug/L	3	20	
Molybdenum	A	500.0	509.8	ug/L	2	20	
Nickel	A	1000	915.9	ug/L	-8	20	
Selenium	A	500.0	502.8	ug/L	1	20	
Silver	A	1000	1065	ug/L	6	20	
Thallium	A	500.0	482.2	ug/L	-4	20	
Titanium	A	20000	20150	ug/L	1		
Vanadium	A	500.0	543.8	ug/L	9	20	
Zinc	A	1000	938.0	ug/L	-6	20	
Aluminum	R	500000	499600	ug/L	0		
Calcium	R	500000	484000	ug/L	-3		
Iron	R	200000	186600	ug/L	-7		
Magnesium	R	500000	483100	ug/L	-3		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	1936249	-16.61

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397052 File : 040406ar.txt Time : 04-APR-2006 20:53
Cal : 86136397001 Caldate: 04-APR-2006
Standards: S2570

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	542.9	ug/L	9	20	
Arsenic	A	500.0	517.1	ug/L	3	20	
Barium	A	500.0	530.1	ug/L	6	20	
Beryllium	A	500.0	525.3	ug/L	5	20	
Cadmium	A	1000	981.8	ug/L	-2	20	
Chromium	A	500.0	514.9	ug/L	3	20	
Cobalt	A	500.0	454.5	ug/L	-9	20	
Copper	A	500.0	501.5	ug/L	0	20	
Lead	A	1000	927.8	ug/L	-7	20	
Manganese	A	500.0	517.3	ug/L	3	20	
Molybdenum	A	500.0	507.9	ug/L	2	20	
Nickel	A	1000	919.4	ug/L	-8	20	
Selenium	A	500.0	496.8	ug/L	-1	20	
Silver	A	1000	1068	ug/L	7	20	
Thallium	A	500.0	483.1	ug/L	-3	20	
Titanium	A	20000	20360	ug/L	2		
Vanadium	A	500.0	544.9	ug/L	9	20	
Zinc	A	1000	939.4	ug/L	-6	20	
Aluminum	R	500000	503800	ug/L	1		
Calcium	R	500000	488500	ug/L	-2		
Iron	R	200000	189700	ug/L	-5		
Magnesium	R	500000	488900	ug/L	-2		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	1947093	-16.14

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86136397 Instrument: MET08 PE ICP Begun: 04-APR-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	040406ar	ICALBLK				04-APR-2006 17:17	1.0	1.0					
002	040406ar	ICAL	CRIM08			04-APR-2006 17:21	1.0	1.0				1	
003	040406ar	ICAL	CS100			04-APR-2006 17:24	1.0	1.0				2	
004	040406ar	ICAL	CS1K			04-APR-2006 17:28	1.0	1.0				3	
005	040406ar	ICAL	CS10K			04-APR-2006 17:30	1.0	1.0				4	
006	040406ar	ICAL	CS100K			04-APR-2006 17:33	1.0	1.0				5	
007	040406ar	ICV				04-APR-2006 17:35	1.0	1.0			5000	6	
008	040406ar	ICB				04-APR-2006 17:38	1.0	1.0			5000		
009	040406ar	ICSA				04-APR-2006 17:42	1.0	1.0			5000	7	10:AL=495477
010	040406ar	ICSAB				04-APR-2006 18:17	1.0	1.0			5000	8	5:AL=499628
011	040406ar	MSS	185622-001	111807	Filtra	04-APR-2006 18:20	5.0	1.0			5000		
012	040406ar	SER	QC333520	111807	Filtra	04-APR-2006 18:24	25.0	1.0		1	5000		
013	040406ar	BLANK	QC333690	111849	Filtra	04-APR-2006 18:28	1.0	1.0			5000		
014	040406ar	BS	QC333691	111849	Filtra	04-APR-2006 18:32	1.0	1.0	1		5000		
015	040406ar	BS	QC333691	111849	Filtra	04-APR-2006 18:35	1.0	1.0			5000		
016	040406ar	BSD	QC333692	111849	Filtra	04-APR-2006 18:38	1.0	1.0	1	1	5000		630
017	040406ar	BSD	QC333692	111849	Filtra	04-APR-2006 18:43	1.0	1.0			5000		
018	040406ar	MSS	185679-011	111849	Filtra	04-APR-2006 18:46	1.0	1.0			5000		
019	040406ar	X	RINSE			04-APR-2006 18:49	1.0						
020	040406ar	CCV				04-APR-2006 18:53	1.0	1.0			5000	9	
021	040406ar	X	FLUSH			04-APR-2006 18:55	1.0						
022	040406ar	CCB				04-APR-2006 18:59	1.0	1.0			5000		
023	040406ar	X	rinse			04-APR-2006 19:03	1.0						
024	040406ar	SER	QC333695	111849	Filtra	04-APR-2006 19:07	5.0	1.0			5000		
025	040406ar	MS	QC333693	111849	Filtra	04-APR-2006 19:11	1.0	1.0			5000		
026	040406ar	MSD	QC333694	111849	Filtra	04-APR-2006 19:14	1.0	1.0			5000		
027	040406ar	PDS	QC333696	111849	Filtra	04-APR-2006 19:18	1.0	1.0			5000	10	
028	040406ar	SAMPLE	185679-001	111849	Filtra	04-APR-2006 19:21	1.0	1.0			5000		
029	040406ar	SAMPLE	185679-002	111849	Filtra	04-APR-2006 19:25	1.0	1.0			5000		
030	040406ar	SAMPLE	185679-003	111849	Filtra	04-APR-2006 19:29	1.0	1.0			5000		
031	040406ar	SAMPLE	185679-004	111849	Filtra	04-APR-2006 19:33	1.0	1.0			5000		

Stds used: 1=S2544 2=S2568 3=S2567 4=S2569 5=S2556 6=S3049 7=S2555 8=S2570 9=S3050 10=S2309

Analyst: K Carlyn Date: 4/4/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86136397 Instrument: MET08 PE ICP Begun: 04-APR-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	040406ar	SAMPLE	185679-005	111849	Filtra	04-APR-2006 19:37	1.0	1.0		5000		
033	040406ar	X	RINSE			04-APR-2006 19:41	1.0					
034	040406ar	CCV				04-APR-2006 19:45	1.0	1.0		5000	9	
035	040406ar	X	FLUSH			04-APR-2006 19:48	1.0					
036	040406ar	CCB				04-APR-2006 19:51	1.0	1.0		5000		
037	040406ar	SAMPLE	185679-006	111849	Filtra	04-APR-2006 19:56	1.0	1.0		5000		
038	040406ar	SAMPLE	185679-007	111849	Filtra	04-APR-2006 20:00	1.0	1.0		5000		
039	040406ar	SAMPLE	185679-008	111849	Filtra	04-APR-2006 20:04	1.0	1.0	2	5000		2:MG=133293
040	040406ar	SAMPLE	185679-010	111849	Filtra	04-APR-2006 20:07	1.0	1.0		5000		
041	040406ar	SAMPLE	185679-012	111849	Filtra	04-APR-2006 20:11	1.0	1.0		5000		
042	040406ar	SAMPLE	185679-013	111849	Filtra	04-APR-2006 20:15	1.0	1.0		5000		
043	040406ar	SAMPLE	185679-014	111849	Filtra	04-APR-2006 20:19	1.0	1.0		5000		
044	040406ar	SAMPLE	185679-015	111849	Filtra	04-APR-2006 20:24	1.0	1.0		5000		
045	040406ar	SAMPLE	185679-016	111849	Filtra	04-APR-2006 20:28	1.0	1.0	1	5000		1:MG=129387
046	040406ar	SAMPLE	185679-017	111849	Filtra	04-APR-2006 20:32	1.0	1.0		5000		
047	040406ar	X	RINSE			04-APR-2006 20:36	1.0					
048	040406ar	CCV				04-APR-2006 20:40	1.0	1.0		5000	9	
049	040406ar	X	FLUSH			04-APR-2006 20:42	1.0					
050	040406ar	CCB				04-APR-2006 20:46	1.0	1.0		5000		
051	040406ar	SAMPLE	185679-019	111849	Filtra	04-APR-2006 20:50	1.0	1.0		5000		
052	040406ar	ICSAB				04-APR-2006 20:53	1.0	1.0		5000	8	5:AL=503777
053	040406ar	X	RINSE			04-APR-2006 20:56	1.0					
054	040406ar	CCV				04-APR-2006 20:59	1.0	1.0		5000	9	
055	040406ar	X	FLUSH			04-APR-2006 21:02	1.0					
056	040406ar	CCB				04-APR-2006 21:05	1.0	1.0		5000		
057	040406ar	SAMPLE	185679-008	111849	Filtra	04-APR-2006 21:12	2.0					
058	040406ar	SAMPLE	185679-016	111849	Filtra	04-APR-2006 21:16	2.0					
059	040406ar	ICSAB				04-APR-2006 21:20	1.0				8	
060	040406ar	X	rinse			04-APR-2006 21:23	1.0					

631

Stds used: 1=S2544 2=S2568 3=S2567 4=S2569 5=S2556 6=S3049 7=S2555 8=S2570 9=S3050 10=S2309

Analyst: K Carlyn Date: 4/4/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56136078001
Units : ug/L

Date : 04-APR-2006 12:10
X Axis : R

Reviewer: ---
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	d0411004	56136078004	CS1	04-APR-2006 12:16	S2889
L2	d0411005	56136078005	CS2	04-APR-2006 12:21	S2890
L3	d0411006	56136078006	CS3	04-APR-2006 12:27	S2891
L4	d0411007	56136078007	CS4	04-APR-2006 12:32	S2892
L5	d0411008	56136078008	CS5	04-APR-2006 12:41	S2886
L6	d0411009	56136078009	CS6	04-APR-2006 12:47	S2887

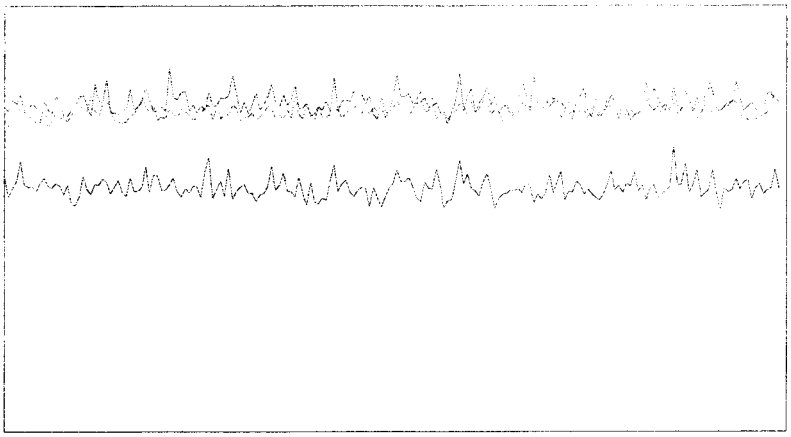
Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		5.0296	4.3560	3.1038	1.5614	1.5596	BLNK	-2.4255	0.64939		3.1221	0.998	0.995	
Antimony	0.5346	0.5068	0.5178	0.5062	0.5044	0.4919	BLNK	-0.0259	2.02293		0.5103	1.000	0.995	
Arsenic		1.2088	1.0066	0.9167	0.8770	0.8421	BLNK	-0.1268	1.17849		0.9702	1.000	0.995	
Barium	0.2461	0.2161	0.1906	0.1777	0.1764	0.1741	BLNK	-0.0153	5.72907		0.1968	1.000	0.995	
Beryllium	0.2940	0.2906	0.2791	0.2775	0.2754	0.2640	BLNK	-0.0092	3.75516		0.2801	1.000	0.995	
Cadmium	1.1519	1.2232	1.1942	1.0760	1.0152	0.9716	BLNK	-0.0360	1.02010		1.1053	1.000	0.995	
Calcium		0.0593	0.0496	0.0382	0.0380	0.0360	BLNK	-19.375	27.4925		0.0442	0.999	0.995	
Chromium		13.635	10.788	6.9876	6.5163	6.2611	BLNK	-0.2561	0.15864		8.8376	1.000	0.995	632
Cobalt	8.5911	8.5418	8.7928	8.4037	8.0237	8.0322	BLNK	-0.0078	0.12452		8.3976	1.000	0.995	
Copper		2.6287	2.4701	2.2670	2.1217	2.0067	BLNK	-0.1089	0.49290		2.2989	0.999	0.995	
Iron		0.2284	0.2125	0.1955	0.1924	0.1840	BLNK	-13.557	5.39041		0.2026	0.999	0.995	
Lead	1.9880	1.8867	1.8843	1.8797	1.9293	1.8090	BLNK	-0.0189	0.54556		1.8962	0.999	0.995	
Magnesium		0.2122	0.2150	0.2199	0.2082	0.1988	BLNK	-2.4832	4.98206		0.2108	0.999	0.995	
Manganese	11.895	10.397	9.9155	9.0354	8.6247	8.6211	BLNK	-0.0389	0.11600		9.7481	1.000	0.995	
Molybdenum		2.0809	1.9020	1.8335	1.7570	1.7239	BLNK	-0.1054	0.57816		1.8595	1.000	0.995	
Nickel	3.6157	2.6866	2.4190	1.9474	1.7943	1.7040	BLNK	-0.0695	0.58078		2.3612	0.999	0.995	
Potassium		2.3419	1.7872	1.2796	1.1471	1.0892	BLNK	-54.033	0.91119		1.5290	0.999	0.995	
Selenium		0.2315	0.1450	0.0879	0.0758	0.0713	BLNK	-1.0731	13.9401		0.1223	0.999	0.995	
Silver	5.6577	5.6829	5.5372	5.3932	4.8046	4.8200	BLNK	-0.0210	0.20758		5.3159	1.000	0.995	
Sodium		3.3090	3.1501	2.4693	2.2593	2.1230	BLNK	-25.550	0.46566		2.6621	0.999	0.995	
Thallium		1.2799	1.2567	1.3015	1.3947	1.3721	BLNK	-0.0768	0.72684		1.3210	1.000	0.995	
Vanadium		8.4326	7.8373	7.3224	6.9946	7.0372	BLNK	-0.1178	0.14237		7.5248	1.000	0.995	
Zinc		3.9548	3.0075	1.4671	1.1793	1.1079	BLNK	-0.5396	0.89354		2.1433	0.999	0.995	

BLNK=Y=aX+[blank]

Instrument amount = a0 + response * a1 + response^2 * a2

Tune Report

Tune File : Autotune.u



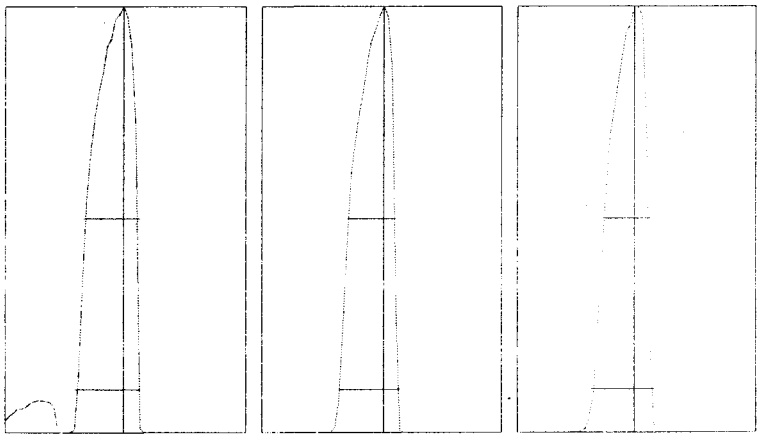
m/z:	7	89	205
Range:	50,000	20,000	20,000
Count:	28,499	15,489	15,159
Mean:	28725.6	15462.7	15067.5
RSD%:	4.20	3.05	2.15
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.36%
Doubly Charged:	70/140	0.92%

Background:

m/z:	7	89	205
Cps:	10.5	6.2	6.7



m/z:	7	89	205
Height:	28,862	15,665	14,962
Axis:	7.00	89.05	205.00
W-50%:	0.70	0.60	0.60
W-10%:	0.800	0.7500	0.800

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1320 W	Extract 1:	-100.6 V	AMU Gain:	131
RF Matching:	1.62 V	Extract 2:	-164 V	AMU Offset:	125
Smpl Depth:	6.1 mm	Einzel 1,3:	-182 V	Axis Gain:	0.9996
Torch-H:	0 mm	Einzel 2:	6 V	Axis Offset:	-0.06
Torch-V:	0.4 mm	Omega Bias:	-74 V	QP Bias:	1.5 V
Carrier Gas:	1.08 L/min	Omega (+):	1.2 V		
Makeup Gas:	0 L/min	Omega (-):	-4 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	4.4 V	Discriminator:	8.7 mV
PeriPump1:	0.1 rps	Plate Bias:	-43.2 V	Analog HV:	1790 V
PeriPump2:	--- rps			Pulse HV:	1260 V
S/C Temp:	2 degC				

Generated : Apr 04, 2006 11:34:56
Printed : Apr 04, 2006 11:35:02

P/A Factor Tuning Report

Acquired:Apr 4 2006 11:43 am

Mass[amu]	Element	P/A Factor
6	Li	0.066668
9	Be	0.075027
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.091432
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.095594
45	Sc	Sensitivity too low
51	V	0.095391
52	Cr	0.097391
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.099758
57	Fe	0.102900
59	Co	0.103248
60	Ni	Sensitivity too low
63	Cu	0.105141
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	Sensitivity too low
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.109560
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	Sensitivity too low
118	(In)	0.112414
121	Sb	Sensitivity too low
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	Sensitivity too low
166	Er	Sensitivity too low

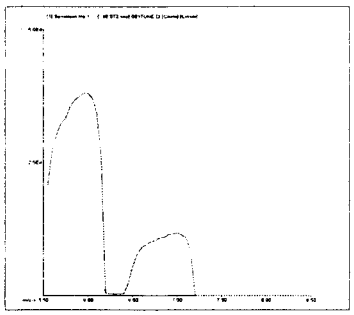
```
205        Tl    0.120759
206      (Pb)    0.117064
207      (Pb)  Sensitivity too low
208        Pb    0.120044
209        Bi  Sensitivity too low

===Detector Parameters===
  Discriminator: 8.7 mV
      Analog HV: 1790 V
       Pulse HV: 1260 V
```

6020 QC Tune Report

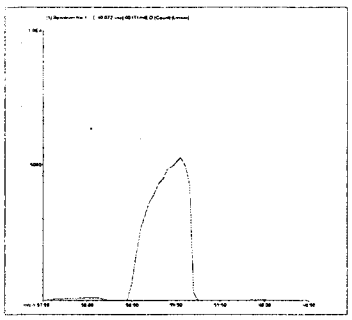
Data File: C:\ICPCHEM\1\DATA\06D0411a.B\001TUNE.D
Date Acquired: Apr 4 2006 11:58 am
Acq. Method: TN6020.M
Operator:
Sample Name: TUN,S2898
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

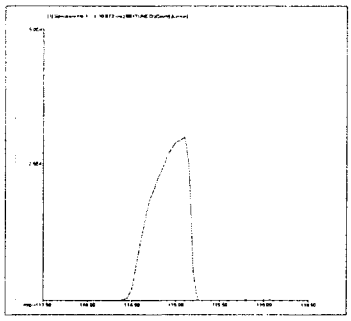
Element	Actual	Required	Flag
7 Li	0.76	5.00	
59 Co	0.94	5.00	
115 In	0.52	5.00	
205 Tl	0.67	5.00	



7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



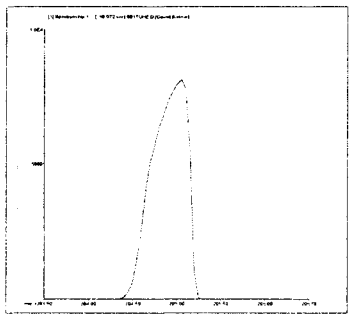
115 In

Mass Calib.

Actual:	115.10	
Required:	114.90 -	115.10
Flag:		

Peak Width

Actual:	0.60
Required:	0.90
Flag:	



205 Tl

Mass Calib.

Actual:	205.05	
Required:	204.90 -	205.10
Flag:		

Peak Width

Actual:	0.60
Required:	0.90
Flag:	

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06D0411a.B\002BLNK.D\002BLNK.D#
Date Acquired: Apr 4 2006 12:04 pm
Acq. Method: 60200111.M
Operator:
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update: Apr 03 2006 11:43 pm
Sample Type: 6-Blank
Dilution Factor: 1.00

QC Elements

Element	Corr. Conc.		RSD(%)	Raw Conc.	High Limit	Flag
9 Be	0.005976	ppb	51.14	0.005976	1.00	
23 Na	15.01	ppb	3.75	15.01	1.00	
26 Mg	-0.1356	ppb	171.31	-0.1356	1.00	
27 Al	-2.176	ppb	2.91	-2.176	1.00	
39 K	13.1	ppb	3.83	13.1	1.00	
44 Ca	3.621	ppb	6.72	3.621	1.00	
51 V	-0.2222	ppb	9.21	-0.2222	1.00	
52 Cr	-0.287	ppb	8.85	-0.287	1.00	
55 Mn	-0.02683	ppb	21.26	-0.02683	1.00	
57 Fe	-4.338	ppb	4.65	-4.338	1.00	
59 Co	0.00498	ppb	45.18	0.00498	1.00	
60 Ni	0.01561	ppb	33.09	0.01561	1.00	
65 Cu	0.064	ppb	33.73	0.064	1.00	
66 Zn	0.0586	ppb	222.87	0.0586	1.00	
75 As	-0.2772	ppb	27.72	-0.2772	1.00	
82 Se	-0.5575	ppb	37.26	-0.5575	1.00	
95 Mo	0.03426	ppb	67.72	0.03426	1.00	
109 Ag	0.02438	ppb	24.16	0.02438	1.00	
111 Cd	-0.06507	ppb	33.63	-0.06507	1.00	
121 Sb	0.02963	ppb	35.64	0.02963	1.00	
137 Ba	-0.02749	ppb	19.33	-0.02749	1.00	
205 Tl	0.07521	ppb	17.41	0.07521	1.00	
208 Pb	-0.01161	ppb	26.03	-0.01161	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	360162.19	0.40	---	#VALUE!	80 - 120	
45 Sc	132392.22	0.59	---	#VALUE!	80 - 120	
72 Ge	30246.89	0.47	---	#VALUE!	80 - 120	
115 In	208415.06	1.08	---	#VALUE!	80 - 120	
209 Bi	296492.19	2.84	---	#VALUE!	80 - 120	

ISTD Ref File : ---

3 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Fail
ISTD: Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06D0411a.B\003CAL
Date Acquired: Apr 4 2006 12:10 pm
Operator:
Sample Name: std-blk
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 03 2006 11:43 pm
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	362929.31	M	5452.00	1.50
9	Be	17.78	P	10.18	57.26
23	Na	144226.70	P	4403.00	3.05
26	Mg	1310.00	P	122.00	9.31
27	Al	9818.89	P	1121.00	11.42
39	K	155868.91	P	939.10	0.60
44	Ca	1852.76	P	76.34	4.12
45	Sc	131426.70	P	1138.00	0.87
51	V	499.64	P	193.00	38.63
52	Cr	974.44	P	40.18	4.12
55	Mn	202.22	P	8.39	4.15
57	Fe	1517.78	P	39.77	2.62
59	Co	37.78	P	6.94	18.37
60	Ni	72.22	P	9.62	13.32
65	Cu	133.33	P	12.02	9.02
66	Zn	364.44	P	39.77	10.91
72	Ge	30176.00	P	46.26	0.15
75	As	64.88	P	60.71	93.57
82	Se	46.44	P	13.73	29.56
95	Mo	110.00	P	27.28	24.80
109	Ag	61.11	P	5.09	8.33
111	Cd	21.30	P	11.30	53.04
115	In	208224.59	P	1434.00	0.69
121	Sb	53.33	P	17.64	33.08
137	Ba	11.11	P	1.93	17.33
205	Tl	637.78	P	36.72	5.76
208	Pb	208.89	P	17.11	8.19
209	Bi	301975.50	P	10060.00	3.33

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D0411a.B\004CALI.D\004CALI.D#
Date Acquired: Apr 4 2006 12:16 pm
Operator:
Sample Name: CS1,S2889
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 04 2006 00:12 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	362894.41	P	6822.00	1.88
9 Be	533.33	P	30.55	5.73
23 Na	272130.00	P	2869.00	1.05
26 Mg	13722.22	P	253.70	1.85
27 Al	4444.44	P	200.80	4.52
39 K	228656.70	P	2822.00	1.23
44 Ca	4909.51	P	89.10	1.81
45 Sc	128931.10	P	1400.00	1.09
51 V	1601.16	P	250.70	15.66
52 Cr	3290.00	P	232.40	7.06
55 Mn	1780.00	P	148.00	8.31
57 Fe	3848.89	P	113.60	2.95
59 Co	1285.56	P	16.44	1.28
60 Ni	541.11	P	42.47	7.85
65 Cu	504.38	P	15.03	2.98
66 Zn	1355.49	P	56.21	4.15
72 Ge	29927.33	P	80.25	0.27
75 As	239.64	P	31.26	13.04
82 Se	76.22	P	6.54	8.58
95 Mo	316.67	P	31.80	10.04
109 Ag	846.67	P	43.59	5.15
111 Cd	172.40	P	15.61	9.05
115 In	204132.09	P	2100.00	1.03
121 Sb	545.56	P	15.03	2.76
137 Ba	251.11	P	8.39	3.34
205 Tl	2310.00	P	95.04	4.11
208 Pb	2867.78	P	159.00	5.54
209 Bi	288421.09	P	2910.00	1.01

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	362894.44	1.88	362929.34	100.0	80 - 120	

45	Sc	128931.10	1.09	131426.66	98.1	80 - 120
72	Ge	29927.33	0.27	30176.00	99.2	80 - 120
115	In	204132.11	1.03	208224.56	98.0	80 - 120
209	Bi	288421.09	1.01	301975.53	95.5	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0411a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D0411a.B\005CALI.D\005CALI.D#
Date Acquired: Apr 4 2006 12:21 pm
Operator:
Sample Name: CS2,S2890
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 04 2006 00:17 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	351022.19	P	2586.00	0.74
9 Be	1020.00	P	40.41	3.96
23 Na	418280.00	P	6766.00	1.62
26 Mg	26828.89	P	203.50	0.76
27 Al	6357.78	P	59.29	0.93
39 K	296036.69	P	488.20	0.16
44 Ca	7491.19	P	45.94	0.61
45 Sc	126410.00	P	860.70	0.68
51 V	2444.85	P	221.20	9.05
52 Cr	3953.33	P	80.90	2.05
55 Mn	3014.44	P	114.20	3.79
57 Fe	6621.11	P	167.60	2.53
59 Co	2476.67	P	61.10	2.47
60 Ni	778.89	P	45.50	5.84
65 Cu	762.10	P	54.80	7.19
66 Zn	1146.53	P	87.18	7.60
72 Ge	28993.78	P	64.70	0.22
75 As	350.41	P	44.45	12.69
82 Se	67.11	P	7.78	11.60
95 Mo	603.33	P	6.67	1.11
109 Ag	1647.78	P	81.81	4.96
111 Cd	354.60	P	38.37	10.82
115 In	198430.00	P	81.10	0.04
121 Sb	1005.56	P	49.14	4.89
137 Ba	428.89	P	48.34	11.27
205 Tl	3710.00	P	105.40	2.84
208 Pb	5466.67	P	236.70	4.33
209 Bi	290377.81	P	11410.00	3.93

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	351022.19	0.74	362929.34	96.7	80 - 120	

45	Sc	126409.99	0.68	131426.66	96.2	80 - 120
72	Ge	28993.78	0.22	30176.00	96.1	80 - 120
115	In	198429.97	0.04	208224.56	95.3	80 - 120
209	Bi	290377.78	3.93	301975.53	96.2	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0411a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D0411a.B\006CALI.D\006CALI.D#
Date Acquired: Apr 4 2006 12:27 pm
Operator:
Sample Name: CS3,S2891
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 04 2006 00:23 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	359291.09	P	2633.00	0.73
9 Be	2005.56	P	28.35	1.41
23 Na	798481.50	A	15540.00	1.95
26 Mg	54490.00	P	213.70	0.39
27 Al	11041.11	P	166.00	1.50
39 K	452977.69	P	5915.00	1.31
44 Ca	12572.57	P	34.20	0.27
45 Sc	126741.10	P	832.50	0.66
51 V	4538.04	P	323.70	7.13
52 Cr	6244.44	P	183.00	2.93
55 Mn	5738.89	P	16.44	0.29
57 Fe	12298.89	P	232.70	1.89
59 Co	5087.78	P	214.60	4.22
60 Ni	1400.00	P	69.28	4.95
65 Cu	1429.76	P	17.64	1.23
66 Zn	1740.84	P	33.56	1.93
72 Ge	28941.33	P	286.40	0.99
75 As	583.30	P	110.00	18.86
82 Se	84.00	P	13.32	15.86
95 Mo	1101.11	P	38.63	3.51
109 Ag	3204.44	P	67.03	2.09
111 Cd	691.29	P	16.58	2.40
115 In	198588.80	P	1900.00	0.96
121 Sb	2056.67	P	16.67	0.81
137 Ba	756.67	P	81.45	10.76
205 Tl	7155.56	P	280.20	3.92
208 Pb	10724.44	P	126.30	1.18
209 Bi	284652.19	P	4534.00	1.59

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	359291.09	0.73	362929.34	99.0	80 - 120	

45	Sc	126741.10	0.66	131426.66	96.4	80 -	120
72	Ge	28941.33	0.99	30176.00	95.9	80 -	120
115	In	198588.84	0.96	208224.56	95.4	80 -	120
209	Bi	284652.19	1.59	301975.53	94.3	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0411a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D0411a.B\007CALI.D\007CALI.D#
Date Acquired: Apr 4 2006 12:32 pm
Operator:
Sample Name: CS4,S2892
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 04 2006 00:28 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	364568.91	P	5268.00	1.45
9	Be	20224.44	P	361.80	1.79
23	Na	6328169.00	A	107900.00	1.71
26	Mg	563525.31	M	22160.00	3.93
27	Al	79542.22	P	609.60	0.77
39	K	3279256.00	A	3128.00	0.10
44	Ca	97779.42	P	1560.00	1.60
45	Sc	128135.60	P	827.90	0.65
51	V	43182.60	P	765.90	1.77
52	Cr	41203.33	P	180.20	0.44
55	Mn	53277.77	P	280.30	0.53
57	Fe	115311.10	P	624.50	0.54
59	Co	49560.00	P	1059.00	2.14
60	Ni	11482.22	P	216.50	1.89
65	Cu	13369.80	P	291.70	2.18
66	Zn	8652.74	P	259.00	2.99
72	Ge	29485.11	P	280.40	0.95
75	As	5406.49	P	164.20	3.04
82	Se	518.67	P	26.69	5.15
95	Mo	10811.11	P	93.41	0.86
109	Ag	31803.33	P	300.20	0.94
111	Cd	6345.41	P	153.00	2.41
115	In	198469.50	P	1054.00	0.53
121	Sb	20092.22	P	605.40	3.01
137	Ba	7054.44	P	150.60	2.13
205	Tl	73561.11	P	2853.00	3.88
208	Pb	106246.70	P	2712.00	2.55
209	Bi	282584.41	P	3864.00	1.37

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	364568.88	1.45	362929.34	100.5	80 - 120	

45	Sc	128135.55	0.65	131426.66	97.5	80 - 120
72	Ge	29485.11	0.95	30176.00	97.7	80 - 120
115	In	198469.50	0.53	208224.56	95.3	80 - 120
209	Bi	282584.44	1.37	301975.53	93.6	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0411a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D0411a.B\008CALI.D\008CALI.D#
Date Acquired: Apr 4 2006 12:41 pm
Operator:
Sample Name: CS5,S2886
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 04 2006 00:34 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	350654.41	P	5654.00	1.61
9 Be	193092.20	P	1401.00	0.73
23 Na	56753440.00	A	416400.00	0.73
26 Mg	5229956.00	A	51630.00	0.99
27 Al	392275.50	P	7957.00	2.03
39 K	28819250.00	A	601200.00	2.09
44 Ca	955211.00	A	12810.00	1.34
45 Sc	125616.70	P	1551.00	1.23
51 V	410985.69	P	2751.00	0.67
52 Cr	382883.31	P	2389.00	0.62
55 Mn	506771.09	P	4563.00	0.90
57 Fe	1130799.00	A	8393.00	0.74
59 Co	471456.59	P	3068.00	0.65
60 Ni	105430.00	P	1427.00	1.35
65 Cu	124670.20	P	1353.00	1.09
66 Zn	69294.96	P	664.30	0.96
72 Ge	29379.11	P	174.10	0.59
75 As	51533.46	P	338.40	0.66
82 Se	4451.78	P	130.90	2.94
95 Mo	103236.70	P	695.00	0.67
109 Ag	282305.50	P	1379.00	0.49
111 Cd	59643.43	P	1119.00	1.88
115 In	190295.59	P	1142.00	0.60
121 Sb	191984.41	P	836.10	0.44
137 Ba	67121.11	P	947.20	1.41
205 Tl	731493.31	P	6506.00	0.89
208 Pb	1011848.00	P	5218.00	0.52
209 Bi	262270.00	P	3852.00	1.47

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	350654.44	1.61	362929.34	96.6	80 - 120	

45	Sc	125616.66	1.23	131426.66	95.6	80 - 120
72	Ge	29379.11	0.59	30176.00	97.4	80 - 120
115	In	190295.61	0.60	208224.56	91.4	80 - 120
209	Bi	262270.00	1.47	301975.53	86.9	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0411a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D0411a.B\009CALI.D\009CALI.D#
Date Acquired: Apr 4 2006 12:47 pm
Operator:
Sample Name: CS6,S2887
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 04 2006 00:43 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	348284.41	P	3287.00	0.94
9 Be	367808.91	P	1697.00	0.46
23 Na	107732700.00	A	1632000.00	1.51
26 Mg	10092860.00	A	55040.00	0.55
27 Al	791537.19	A	5025.00	0.63
39 K	55282380.00	A	127900.00	0.23
44 Ca	1827785.00	A	16720.00	0.91
45 Sc	126906.70	P	1998.00	1.57
51 V	838465.63	A	2551.00	0.30
52 Cr	746038.88	P	10940.00	1.47
55 Mn	1027209.00	A	8585.00	0.84
57 Fe	2191739.00	A	24590.00	1.12
59 Co	956980.13	A	5644.00	0.59
60 Ni	203021.09	P	2024.00	1.00
65 Cu	239098.91	P	1950.00	0.82
66 Zn	132002.91	P	1077.00	0.82
72 Ge	29787.78	P	246.00	0.83
75 As	100334.10	P	858.10	0.86
82 Se	8493.55	P	55.21	0.65
95 Mo	205400.00	P	294.80	0.14
109 Ag	574317.69	P	7192.00	1.25
111 Cd	115766.40	P	584.60	0.50
115 In	193343.30	P	1444.00	0.75
121 Sb	380386.69	P	498.30	0.13
137 Ba	134655.59	P	1901.00	1.41
205 Tl	1498306.00	A	11130.00	0.74
208 Pb	1975679.00	A	10080.00	0.51
209 Bi	273263.31	P	10580.00	3.87

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	348284.44	0.94	362929.34	96.0	80 - 120	

45	Sc	126906.66	1.57	131426.66	96.6	80 - 120
72	Ge	29787.78	0.83	30176.00	98.7	80 - 120
115	In	193343.28	0.75	208224.56	92.9	80 - 120
209	Bi	273263.31	3.87	301975.53	90.5	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0411a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Summary

Calibration : C:\ICPCHEM\1\CALIB\60200111.C
Last Calib: Apr 04, 2006 12:49
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\06d0411a.b\003calb.d\	003calb.d#	Apr 4 2006 12:10 pm
2	...hem\1\data\06d0411a.b\004cali.d\	004cali.d#	Apr 4 2006 12:16 pm
3	...hem\1\data\06d0411a.b\005cali.d\	005cali.d#	Apr 4 2006 12:21 pm
4	...hem\1\data\06d0411a.b\006cali.d\	006cali.d#	Apr 4 2006 12:27 pm
5	...hem\1\data\06d0411a.b\007cali.d\	007cali.d#	Apr 4 2006 12:32 pm
6	...hem\1\data\06d0411a.b\008cali.d\	008cali.d#	Apr 4 2006 12:41 pm
7	...hem\1\data\06d0411a.b\009cali.d\	009cali.d#	Apr 4 2006 12:47 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	Excluded	---	ppb
Be	9	6	Y = 2.663E-1*X +2.437E-3(blank)	---	ppb
Na	23	45	Y = 2.147E+0*X +5.487E+1(blank)	---	ppb
Mg	25	45	Excluded	---	ppb
Mg	26	45	Y = 2.007E-1*X +4.984E-1(blank)	---	ppb
Al	27	45	Y = 1.540E+0*X +3.735E+0(blank)	---	ppb
K	39	45	Y = 1.097E+0*X +5.930E+1(blank)	---	ppb
Ca	43	45	Excluded	---	ppb
Ca	44	45	Y = 3.637E-2*X +7.047E-1(blank)	---	ppb
Sc	45	---	Excluded	---	ppb
V	51	72	Y = 7.024E+0*X +8.276E-1(blank)	---	ppb
Cr	52	72	Y = 6.304E+0*X +1.615E+0(blank)	---	ppb
Cr	53	72	Excluded	---	ppb
Fe	54	72	Excluded	---	ppb
Mn	55	72	Y = 8.621E+0*X +3.351E-1(blank)	---	ppb
Fe	57	72	Y = 1.855E-1*X +2.515E+0(blank)	---	ppb
Co	59	72	Y = 8.031E+0*X +6.258E-2(blank)	---	ppb
Ni	60	72	Y = 1.722E+0*X +1.197E-1(blank)	---	ppb
Cu	63	72	Excluded	---	ppb
Cu	65	72	Y = 2.029E+0*X +2.209E-1(blank)	---	ppb
Zn	66	72	Y = 1.119E+0*X +6.039E-1(blank)	---	ppb
Ge	72	---	Excluded	---	ppb
As	75	72	Y = 8.485E-1*X +1.076E-1(blank)	---	ppb
(As)	77	72	Excluded	---	ppb
Se	82	72	Y = 7.174E-2*X +7.698E-2(blank)	---	ppb
(As)	83	72	Excluded	---	ppb
(Ca)	88	72	Excluded	---	ppb
Y	89	72	Excluded	---	ppb
Mo	95	72	Y = 1.730E+0*X +1.822E-1(blank)	---	ppb
Mo	98	72	Excluded	---	ppb
(Mo)	99	72	Excluded	---	ppb
(Cd)	106	72	Excluded	---	ppb
(Cd)	108	72	Excluded	---	ppb
Ag	109	72	Y = 4.817E+0*X +1.013E-1(blank)	---	ppb
Cd	111	72	Y = 9.803E-1*X +3.531E-2(blank)	---	ppb
Cd	114	72	Excluded	---	ppb
In	115	---	Excluded	---	ppb
(In)	118	---	Excluded	---	ppb
Sb	121	115	Y = 4.943E-1*X +1.282E-2(blank)	---	ppb
Ba	135	115	Excluded	---	ppb
Ba	137	115	Y = 1.745E-1*X +2.666E-3(blank)	---	ppb
Tb	159	---	Excluded	---	ppb
Er	166	115	Excluded	---	ppb
Tl	205	209	Y = 1.376E+0*X +1.056E-1(blank)	---	ppb
(Pb)	206	209	Excluded	---	ppb
(Pb)	207	209	Excluded	---	ppb
Pb	208	209	Y = 1.833E+0*X +3.467E-2(blank)	---	ppb
Bi	209	---	Excluded	---	ppb
Th	232	209	--------	---	ppb
U	238	209	--------	---	ppb

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56136078010 File : d0411010 Time : 04-APR-2006 12:52
Cal : 56136078001 Caldate: 04-APR-2006
Standards: S2895, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	3.1221	1.4855	100.0	94.04	ug/L	-6	10	
Antimony	0.5103	0.4749	100.0	96.05	ug/L	-4	10	
Arsenic	0.9702	0.8262	100.0	97.24	ug/L	-3	10	
Barium	0.1968	0.1685	100.0	96.54	ug/L	-3	10	
Beryllium	0.2801	0.2582	100.0	96.97	ug/L	-3	10	
Cadmium	1.1053	0.9786	100.0	99.79	ug/L	0	10	
Calcium	0.0442	0.0354	10000	9719	ug/L	-3	10	
Chromium	8.8376	6.1491	100.0	97.29	ug/L	-3	10	
Cobalt	8.3976	7.4723	100.0	93.04	ug/L	-7	10	
Copper	2.2989	1.9614	100.0	96.57	ug/L	-3	10	
Iron	0.2026	0.1828	10000	9840	ug/L	-2	10	
Lead	1.8962	1.7697	100.0	96.53	ug/L	-3	10	
Magnesium	0.2108	0.1984	10000	9881	ug/L	-1	10	
Manganese	9.7481	8.1127	100.0	94.07	ug/L	-6	10	
Molybdenum	1.8595	1.6731	100.0	96.63	ug/L	-3	10	
Nickel	2.3612	1.6802	100.0	97.51	ug/L	-2	10	
Potassium	1.5290	1.0608	10000	9612	ug/L	-4	10	
Selenium	0.1223	0.0736	100.0	101.5	ug/L	2	10	
Silver	5.3159	4.8796	100.0	101.3	ug/L	1	10	
Sodium	2.6621	2.0945	10000	9728	ug/L	-3	10	
Thallium	1.3210	1.2834	100.0	93.21	ug/L	-7	10	
Vanadium	7.5248	6.6382	100.0	94.39	ug/L	-6	10	
Zinc	2.1433	1.1112	100.0	98.75	ug/L	-1	10	

ISTD (ICALBLK d0411003)	ICALBLK Abund	Abund	%Drift
Lithium	362929	365528	0.72
Scandium	131427	130664	-0.58
Germanium	30176	30222	0.15
Indium	208225	202509	-2.74
Bismuth	301976	292374	-3.18

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56136078024 File : d0411024 Time : 04-APR-2006 14:10
Cal : 56136078001 Caldate: 04-APR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	3.1221	1.4601	150.0	139.8	ug/L	-7	10	
Antimony	0.5103	0.4705	150.0	142.8	ug/L	-5	10	
Arsenic	0.9702	0.8154	150.0	144.0	ug/L	-4	10	
Barium	0.1968	0.1701	150.0	146.2	ug/L	-3	10	
Beryllium	0.2801	0.2546	150.0	143.4	ug/L	-4	10	
Cadmium	1.1053	0.9632	150.0	147.3	ug/L	-2	10	
Calcium	0.0442	0.0353	15000	14550	ug/L	-3	10	
Chromium	8.8376	6.0779	150.0	144.4	ug/L	-4	10	
Cobalt	8.3976	7.5097	150.0	140.3	ug/L	-6	10	
Copper	2.2989	1.8959	150.0	140.1	ug/L	-7	10	
Iron	0.2026	0.1785	15000	14420	ug/L	-4	10	
Lead	1.8962	1.7707	150.0	144.9	ug/L	-3	10	
Magnesium	0.2108	0.1924	15000	14380	ug/L	-4	10	
Manganese	9.7481	8.0431	150.0	139.9	ug/L	-7	10	
Molybdenum	1.8595	1.6533	150.0	143.3	ug/L	-4	10	
Nickel	2.3612	1.6344	150.0	142.3	ug/L	-5	10	
Potassium	1.5290	1.0832	15000	14750	ug/L	-2	10	
Selenium	0.1223	0.0701	150.0	145.5	ug/L	-3	10	
Silver	5.3159	4.7837	150.0	148.9	ug/L	-1	10	
Sodium	2.6621	2.0703	15000	14440	ug/L	-4	10	
Thallium	1.3210	1.3240	150.0	144.3	ug/L	-4	10	
Vanadium	7.5248	6.5919	150.0	140.7	ug/L	-6	10	
Zinc	2.1433	1.0755	150.0	143.6	ug/L	-4	10	

ISTD (ICALBLK d0411003)	ICALBLK Abund	Abund	%Drift
Lithium	362929	352764	-2.80
Scandium	131427	122689	-6.65
Germanium	30176	28496	-5.57
Indium	208225	191253	-8.15
Bismuth	301976	272839	-9.65

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56136078041 File : d0411041 Time : 04-APR-2006 16:16
Cal : 56136078001 Caldate: 04-APR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	3.1221	1.3755	150.0	131.6	ug/L	**-12**	10	c- ***
Antimony	0.5103	0.4589	150.0	139.2	ug/L	-7	10	
Arsenic	0.9702	0.8007	150.0	141.4	ug/L	-6	10	
Barium	0.1968	0.1639	150.0	140.8	ug/L	-6	10	
Beryllium	0.2801	0.2490	150.0	140.3	ug/L	-6	10	
Cadmium	1.1053	0.9760	150.0	149.3	ug/L	0	10	
Calcium	0.0442	0.0348	15000	14330	ug/L	-4	10	
Chromium	8.8376	6.1546	150.0	146.2	ug/L	-3	10	
Cobalt	8.3976	7.4036	150.0	138.3	ug/L	-8	10	
Copper	2.2989	1.9027	150.0	140.6	ug/L	-6	10	
Iron	0.2026	0.1813	15000	14640	ug/L	-2	10	
Lead	1.8962	1.7828	150.0	145.9	ug/L	-3	10	
Magnesium	0.2108	0.1900	15000	14190	ug/L	-5	10	
Manganese	9.7481	8.0736	150.0	140.4	ug/L	-6	10	
Molybdenum	1.8595	1.6476	150.0	142.8	ug/L	-5	10	
Nickel	2.3612	1.6351	150.0	142.4	ug/L	-5	10	
Potassium	1.5290	1.0376	15000	14130	ug/L	-6	10	
Selenium	0.1223	0.0693	150.0	143.8	ug/L	-4	10	
Silver	5.3159	4.7964	150.0	149.3	ug/L	0	10	
Sodium	2.6621	2.0432	15000	14250	ug/L	-5	10	
Thallium	1.3210	1.3277	150.0	144.7	ug/L	-4	10	
Vanadium	7.5248	6.6794	150.0	142.5	ug/L	-5	10	
Zinc	2.1433	1.0811	150.0	144.4	ug/L	-4	10	

ISTD (ICALBLK d0411003)	ICALBLK Abund	Abund	%Drift
Lithium	362929	357601	-1.47
Scandium	131427	118076	-10.16
Germanium	30176	25986	-13.89
Indium	208225	178472	-14.29
Bismuth	301976	250819	-16.94

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56136078054 File : d0411054 Time : 04-APR-2006 17:29
Cal : 56136078001 Caldate: 04-APR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	3.1221	1.5261	150.0	146.2	ug/L	-3	10	
Antimony	0.5103	0.4833	150.0	146.6	ug/L	-2	10	
Arsenic	0.9702	0.8256	150.0	145.8	ug/L	-3	10	
Barium	0.1968	0.1742	150.0	149.7	ug/L	0	10	
Beryllium	0.2801	0.2586	150.0	145.7	ug/L	-3	10	
Cadmium	1.1053	0.9978	150.0	152.6	ug/L	2	10	
Calcium	0.0442	0.0365	15000	15040	ug/L	0	10	
Chromium	8.8376	6.2308	150.0	148.0	ug/L	-1	10	
Cobalt	8.3976	7.6358	150.0	142.6	ug/L	-5	10	
Copper	2.2989	1.9421	150.0	143.5	ug/L	-4	10	
Iron	0.2026	0.1839	15000	14850	ug/L	-1	10	
Lead	1.8962	1.8071	150.0	147.9	ug/L	-1	10	
Magnesium	0.2108	0.2004	15000	14980	ug/L	0	10	
Manganese	9.7481	8.4048	150.0	146.2	ug/L	-3	10	
Molybdenum	1.8595	1.7185	150.0	148.9	ug/L	-1	10	
Nickel	2.3612	1.6560	150.0	144.2	ug/L	-4	10	
Potassium	1.5290	1.1068	15000	15070	ug/L	0	10	
Selenium	0.1223	0.0716	150.0	148.6	ug/L	-1	10	
Silver	5.3159	4.9365	150.0	153.7	ug/L	2	10	
Sodium	2.6621	2.1235	15000	14810	ug/L	-1	10	
Thallium	1.3210	1.3539	150.0	147.5	ug/L	-2	10	
Vanadium	7.5248	6.7488	150.0	144.0	ug/L	-4	10	
Zinc	2.1433	1.0751	150.0	143.6	ug/L	-4	10	

ISTD (ICALBLK d0411003)	ICALBLK Abund	Abund	%Drift
Lithium	362929	356217	-1.85
Scandium	131427	117358	-10.70
Germanium	30176	26847	-11.03
Indium	208225	183317	-11.96
Bismuth	301976	273583	-9.40

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56136078072 File : d0411072 Time : 04-APR-2006 19:35
Cal : 56136078001 Caldate: 04-APR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	3.1221	1.3951	150.0	133.5	ug/L	**-11**	10	c- ***
Antimony	0.5103	0.4842	150.0	146.9	ug/L	-2	10	
Arsenic	0.9702	0.8032	150.0	141.9	ug/L	-5	10	
Barium	0.1968	0.1719	150.0	147.7	ug/L	-2	10	
Beryllium	0.2801	0.2518	150.0	141.8	ug/L	-5	10	
Cadmium	1.1053	1.0010	150.0	153.1	ug/L	2	10	
Calcium	0.0442	0.0364	15000	15000	ug/L	0	10	
Chromium	8.8376	6.1739	150.0	146.7	ug/L	-2	10	
Cobalt	8.3976	7.4315	150.0	138.8	ug/L	-7	10	
Copper	2.2989	1.9171	150.0	141.6	ug/L	-6	10	
Iron	0.2026	0.1841	15000	14880	ug/L	-1	10	
Lead	1.8962	1.8123	150.0	148.3	ug/L	-1	10	
Magnesium	0.2108	0.1894	15000	14150	ug/L	-6	10	
Manganese	9.7481	8.2177	150.0	143.0	ug/L	-5	10	
Molybdenum	1.8595	1.7333	150.0	150.2	ug/L	0	10	
Nickel	2.3612	1.6435	150.0	143.1	ug/L	-5	10	
Potassium	1.5290	1.0677	15000	14540	ug/L	-3	10	
Selenium	0.1223	0.0677	150.0	140.6	ug/L	-6	10	
Silver	5.3159	4.9670	150.0	154.6	ug/L	3	10	
Sodium	2.6621	2.0176	15000	14070	ug/L	-6	10	
Thallium	1.3210	1.3604	150.0	148.2	ug/L	-1	10	
Vanadium	7.5248	6.6680	150.0	142.3	ug/L	-5	10	
Zinc	2.1433	1.0552	150.0	140.9	ug/L	-6	10	

ISTD (ICALBLK d0411003)	ICALBLK Abund	Abund	%Drift
Lithium	362929	320901	-11.58
Scandium	131427	119819	-8.83
Germanium	30176	27963	-7.33
Indium	208225	195565	-6.08
Bismuth	301976	279911	-7.31

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56136078086 File : d0411086 Time : 04-APR-2006 20:53
Cal : 56136078001 Caldate: 04-APR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	3.1221	1.3468	150.0	128.8	ug/L	**-14**	10	c- ***
Antimony	0.5103	0.4822	150.0	146.3	ug/L	-2	10	
Arsenic	0.9702	0.7870	150.0	139.0	ug/L	-7	10	
Barium	0.1968	0.1738	150.0	149.4	ug/L	0	10	
Beryllium	0.2801	0.2483	150.0	139.8	ug/L	-7	10	
Cadmium	1.1053	1.0189	150.0	155.9	ug/L	4	10	
Calcium	0.0442	0.0364	15000	14990	ug/L	0	10	
Chromium	8.8376	5.9602	150.0	141.6	ug/L	-6	10	
Cobalt	8.3976	7.2035	150.0	134.5	ug/L	-10	10	
Copper	2.2989	1.8870	150.0	139.4	ug/L	-7	10	
Iron	0.2026	0.1803	15000	14570	ug/L	-3	10	
Lead	1.8962	1.7631	150.0	144.3	ug/L	-4	10	
Magnesium	0.2108	0.1843	15000	13770	ug/L	-8	10	
Manganese	9.7481	7.9423	150.0	138.2	ug/L	-8	10	
Molybdenum	1.8595	1.7292	150.0	149.9	ug/L	0	10	
Nickel	2.3612	1.5975	150.0	139.1	ug/L	-7	10	
Potassium	1.5290	1.0768	15000	14660	ug/L	-2	10	
Selenium	0.1223	0.0659	150.0	136.7	ug/L	-9	10	
Silver	5.3159	5.0473	150.0	157.1	ug/L	5	10	
Sodium	2.6621	1.9852	15000	13840	ug/L	-8	10	
Thallium	1.3210	1.3267	150.0	144.6	ug/L	-4	10	
Vanadium	7.5248	6.4635	150.0	137.9	ug/L	-8	10	
Zinc	2.1433	1.0197	150.0	136.1	ug/L	-9	10	

ISTD (ICALBLK d0411003)	ICALBLK Abund	Abund	%Drift
Lithium	362929	319038	-12.09
Scandium	131427	108517	-17.43
Germanium	30176	25606	-15.14
Indium	208225	184435	-11.42
Bismuth	301976	278306	-7.84

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56136078097 File : d0411097 Time : 04-APR-2006 21:58
Cal : 56136078001 Caldate: 04-APR-2006
Standards: S2897, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	3.1221	1.4318	150.0	137.0	ug/L	-9	10	
Antimony	0.5103	0.4884	150.0	148.2	ug/L	-1	10	
Arsenic	0.9702	0.8108	150.0	143.2	ug/L	-5	10	
Barium	0.1968	0.1753	150.0	150.6	ug/L	0	10	
Beryllium	0.2801	0.2493	150.0	140.4	ug/L	-6	10	
Cadmium	1.1053	1.0001	150.0	153.0	ug/L	2	10	
Calcium	0.0442	0.0368	15000	15170	ug/L	1	10	
Chromium	8.8376	6.1609	150.0	146.4	ug/L	-2	10	
Cobalt	8.3976	7.4521	150.0	139.2	ug/L	-7	10	
Copper	2.2989	1.9119	150.0	141.3	ug/L	-6	10	
Iron	0.2026	0.1832	15000	14800	ug/L	-1	10	
Lead	1.8962	1.7566	150.0	143.7	ug/L	-4	10	
Magnesium	0.2108	0.1927	15000	14390	ug/L	-4	10	
Manganese	9.7481	8.1224	150.0	141.3	ug/L	-6	10	
Molybdenum	1.8595	1.7479	150.0	151.5	ug/L	1	10	
Nickel	2.3612	1.6484	150.0	143.5	ug/L	-4	10	
Potassium	1.5290	1.0980	15000	14950	ug/L	0	10	
Selenium	0.1223	0.0677	150.0	140.4	ug/L	-6	10	
Silver	5.3159	5.0254	150.0	156.5	ug/L	4	10	
Sodium	2.6621	2.0713	15000	14440	ug/L	-4	10	
Thallium	1.3210	1.3225	150.0	144.1	ug/L	-4	10	
Vanadium	7.5248	6.6509	150.0	141.9	ug/L	-5	10	
Zinc	2.1433	1.0416	150.0	139.1	ug/L	-7	10	

ISTD (ICALBLK d0411003)	ICALBLK Abund	Abund	%Drift
Lithium	362929	340737	-6.11
Scandium	131427	109847	-16.42
Germanium	30176	25478	-15.57
Indium	208225	177898	-14.56
Bismuth	301976	272389	-9.80

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56136078012 File : d0411012 Time : 04-APR-2006 13:03
Cal : 56136078001 Caldate: 04-APR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01273]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2494]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK d0411003)	ICALBLK Abund	Abund	%Drift
Lithium	362929	360378	-0.70
Scandium	131427	122784	-6.58
Germanium	30176	28244	-6.40
Indium	208225	194314	-6.68
Bismuth	301976	281539	-6.77

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56136078026 File : d0411026 Time : 04-APR-2006 14:21
Cal : 56136078001 Caldate: 04-APR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.005350]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.4501]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1112]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK d0411003)	ICALBLK Abund	Abund	%Drift
Lithium	362929	346085	-4.64
Scandium	131427	117513	-10.59
Germanium	30176	27051	-10.36
Indium	208225	188715	-9.37
Bismuth	301976	279916	-7.31

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56136078043 File : d0411043 Time : 04-APR-2006 16:27
Cal : 56136078001 Caldate: 04-APR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	[0.1058]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.005757]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1256]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK d0411003)	ICALBLK Abund	Abund	%Drift
Lithium	362929	349460	-3.71
Scandium	131427	111780	-14.95
Germanium	30176	25070	-16.92
Indium	208225	174043	-16.42
Bismuth	301976	255032	-15.55

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56136078074 File : d0411074 Time : 04-APR-2006 19:46
Cal : 56136078001 Caldate: 04-APR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.007425]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2295]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK d0411003)	ICALBLK Abund	Abund	%Drift
Lithium	362929	319904	-11.86
Scandium	131427	112790	-14.18
Germanium	30176	25930	-14.07
Indium	208225	190032	-8.74
Bismuth	301976	279218	-7.54

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56136078088 File : d0411088 Time : 04-APR-2006 21:07
Cal : 56136078001 Caldate: 04-APR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	[0.3032]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	0.5451	0.5000	0.1891	ug/L	ib ***
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1033]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK d0411003)	ICALBLK Abund	Abund	%Drift
Lithium	362929	319718	-11.91
Scandium	131427	103061	-21.58
Germanium	30176	23923	-20.72
Indium	208225	181403	-12.88
Bismuth	301976	270333	-10.48

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56136078099 File : d0411099 Time : 04-APR-2006 22:10
Cal : 56136078001 Caldate: 04-APR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.006625]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1543]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK d0411003)	ICALBLK Abund	Abund	%Drift
Lithium	362929	337933	-6.89
Scandium	131427	106508	-18.96
Germanium	30176	24488	-18.85
Indium	208225	177914	-14.56
Bismuth	301976	263798	-12.64

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56136078013 File : d0411013 Time : 04-APR-2006 13:09
Cal : 56136078001 Caldate: 04-APR-2006
Standards: S2893, 05WS0207

Analyte	Quant	RL	Units	Flags
Antimony	2.090	0.2500	ug/L	
Arsenic	[0.4308]	0.5000	ug/L	
Barium	0.9553	0.2500	ug/L	
Beryllium	[0.007620]	0.2500	ug/L	
Cadmium	[0.02971]	0.2500	ug/L	
Chromium	1.094	0.5000	ug/L	
Cobalt	2.511	0.2500	ug/L	
Copper	1.097	0.5000	ug/L	
Lead	1.285	0.2500	ug/L	
Manganese	0.9251	0.2500	ug/L	
Nickel	1.074	0.2500	ug/L	
Selenium	[0.2328]	0.5000	ug/L	
Silver	[0.1381]	0.2500	ug/L	
Thallium	[0.1941]	0.5000	ug/L	
Vanadium	[0.08644]	1.000	ug/L	
Zinc	1.310	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	86400	ug/L	86
Calcium	300000	299200	ug/L	100
Iron	250000	225700	ug/L	90
Magnesium	100000	89220	ug/L	89
Molybdenum	2000	2177	ug/L	109
Potassium	100000	98100	ug/L	98
Sodium	250000	218600	ug/L	87

ISTD (ICALBLK d0411003)	ICALBLK Abund	Abund	%Drift
Lithium	362929	274421	-24.39
Scandium	131427	107446	-18.25
Germanium	30176	25651	-15.00
Indium	208225	170256	-18.23
Bismuth	301976	216774	-28.21

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56136078014 File : d0411014 Time : 04-APR-2006 13:14
Cal : 56136078001 Caldate: 04-APR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	84800	ug/L	-15		
Arsenic	100.0	95.48	ug/L	-5	20	
Cadmium	100.0	97.06	ug/L	-3	20	
Calcium	300000	306200	ug/L	2		
Chromium	200.0	205.6	ug/L	3	20	
Cobalt	200.0	188.2	ug/L	-6	20	
Copper	200.0	179.7	ug/L	-10	20	
Iron	250000	228300	ug/L	-9		
Magnesium	100000	86920	ug/L	-13		
Manganese	200.0	208.2	ug/L	4	20	
Molybdenum	2000	2238	ug/L	12		
Nickel	200.0	183.4	ug/L	-8	20	
Potassium	100000	98580	ug/L	-1		
Selenium	100.0	87.00	ug/L	-13	20	
Silver	50.00	49.49	ug/L	-1	20	
Sodium	250000	216300	ug/L	-13		
Vanadium	200.0	209.8	ug/L	5	20	
Zinc	100.0	85.23	ug/L	-15	20	

ISTD (ICALBLK d0411003)	ICALBLK Abund	Abund	%Drift
Scandium	131427	99978	-23.93
Germanium	30176	23958	-20.61

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56136078057 File : d0411057 Time : 04-APR-2006 17:46
Cal : 56136078001 Caldate: 04-APR-2006
Standards: S2893, 05WS0207

Analyte	Quant	RL	Units	Flags
Antimony	2.077	0.2500	ug/L	
Arsenic	[0.2762]	0.5000	ug/L	
Barium	0.9564	0.2500	ug/L	
Beryllium	[0.02052]	0.2500	ug/L	
Cadmium	[0.07163]	0.2500	ug/L	
Chromium	1.075	0.5000	ug/L	
Cobalt	2.529	0.2500	ug/L	
Copper	1.040	0.5000	ug/L	
Lead	1.287	0.2500	ug/L	
Manganese	0.9235	0.2500	ug/L	
Nickel	1.126	0.2500	ug/L	
Selenium	[0.1637]	0.5000	ug/L	
Silver	[0.1383]	0.2500	ug/L	
Thallium	[0.1932]	0.5000	ug/L	
Vanadium	[0.08262]	1.000	ug/L	
Zinc	1.464	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	87090	ug/L	87
Calcium	300000	308800	ug/L	103
Iron	250000	224600	ug/L	90
Magnesium	100000	89890	ug/L	90
Molybdenum	2000	2237	ug/L	112
Potassium	100000	100700	ug/L	101
Sodium	250000	223600	ug/L	89

ISTD (ICALBLK d0411003)	ICALBLK Abund	Abund	%Drift
Lithium	362929	247250	-31.87
Scandium	131427	87192	-33.66
Germanium	30176	20907	-30.72
Indium	208225	143688	-30.99
Bismuth	301976	199254	-34.02

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56136078058 File : d0411058 Time : 04-APR-2006 17:51
Cal : 56136078001 Caldate: 04-APR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	82670	ug/L	-17		
Arsenic	100.0	96.04	ug/L	-4	20	
Cadmium	100.0	104.4	ug/L	4	20	
Calcium	300000	306400	ug/L	2		
Chromium	200.0	202.4	ug/L	1	20	
Cobalt	200.0	183.8	ug/L	-8	20	
Copper	200.0	175.4	ug/L	-12	20	
Iron	250000	221100	ug/L	-12		
Magnesium	100000	84460	ug/L	-16		
Manganese	200.0	199.0	ug/L	-1	20	
Molybdenum	2000	2267	ug/L	13		
Nickel	200.0	178.6	ug/L	-11	20	
Potassium	100000	98890	ug/L	-1		
Selenium	100.0	88.82	ug/L	-11	20	
Silver	50.00	51.51	ug/L	3	20	
Sodium	250000	213300	ug/L	-15		
Vanadium	200.0	202.1	ug/L	1	20	
Zinc	100.0	84.72	ug/L	-15	20	

ISTD (ICALBLK d0411003)	ICALBLK Abund	Abund	%Drift
Scandium	131427	74721	-43.15
Germanium	30176	17861	-40.81

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56136078089 File : d0411089 Time : 04-APR-2006 21:13
Cal : 56136078001 Caldate: 04-APR-2006
Standards: S2893, 05WS0207

Analyte	Quant	RL	Units	Flags
Antimony	2.041	0.2500	ug/L	
Arsenic	[0.2002]	0.5000	ug/L	
Barium	0.8846	0.2500	ug/L	
Beryllium	[0.01850]	0.2500	ug/L	
Cadmium	[0.1211]	0.2500	ug/L	
Chromium	1.098	0.5000	ug/L	
Cobalt	2.460	0.2500	ug/L	
Copper	1.007	0.5000	ug/L	
Lead	1.281	0.2500	ug/L	
Manganese	0.9097	0.2500	ug/L	
Nickel	0.9886	0.2500	ug/L	
Selenium	[0]	0.5000	ug/L	
Silver	[0.1316]	0.2500	ug/L	
Thallium	[0.1138]	0.5000	ug/L	
Vanadium	[0.09554]	1.000	ug/L	
Zinc	1.528	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	85500	ug/L	86
Calcium	300000	302100	ug/L	101
Iron	250000	219900	ug/L	88
Magnesium	100000	86550	ug/L	87
Molybdenum	2000	2196	ug/L	110
Potassium	100000	97240	ug/L	97
Sodium	250000	219000	ug/L	88

ISTD (ICALBLK d0411003)	ICALBLK Abund	Abund	%Drift
Lithium	362929	249207	-31.33
Scandium	131427	90974	-30.78
Germanium	30176	22204	-26.42
Indium	208225	152571	-26.73
Bismuth	301976	201596	-33.24

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56136078090 File : d0411090 Time : 04-APR-2006 21:19
Cal : 56136078001 Caldate: 04-APR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	87720	ug/L	-12		
Arsenic	100.0	93.35	ug/L	-7	20	
Cadmium	100.0	95.89	ug/L	-4	20	
Calcium	300000	304400	ug/L	1		
Chromium	200.0	201.3	ug/L	1	20	
Cobalt	200.0	184.0	ug/L	-8	20	
Copper	200.0	175.3	ug/L	-12	20	
Iron	250000	219900	ug/L	-12		
Magnesium	100000	88750	ug/L	-11		
Manganese	200.0	206.1	ug/L	3	20	
Molybdenum	2000	2150	ug/L	8		
Nickel	200.0	179.9	ug/L	-10	20	
Potassium	100000	99760	ug/L	0		
Selenium	100.0	82.50	ug/L	-18	20	
Silver	50.00	48.26	ug/L	-3	20	
Sodium	250000	220700	ug/L	-12		
Vanadium	200.0	200.8	ug/L	0	20	
Zinc	100.0	82.04	ug/L	-18	20	

ISTD (ICALBLK d0411003)	ICALBLK Abund	Abund	%Drift
Scandium	131427	85357	-35.05
Germanium	30176	21108	-30.05

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56136078100 File : d0411100 Time : 04-APR-2006 22:15
Cal : 56136078001 Caldate: 04-APR-2006
Standards: S2893, 05WS0207

Analyte	Quant	RL	Units	Flags
Antimony	2.050	0.2500	ug/L	
Arsenic	[0.3220]	0.5000	ug/L	
Barium	0.9636	0.2500	ug/L	
Beryllium	[0.01446]	0.2500	ug/L	
Cadmium	[0.1898]	0.2500	ug/L	
Chromium	1.097	0.5000	ug/L	
Cobalt	2.397	0.2500	ug/L	
Copper	1.013	0.5000	ug/L	
Lead	1.274	0.2500	ug/L	
Manganese	0.8794	0.2500	ug/L	
Nickel	1.058	0.2500	ug/L	
Selenium	[0]	0.5000	ug/L	
Silver	[0.1201]	0.2500	ug/L	
Thallium	[0.1390]	0.5000	ug/L	
Vanadium	[0.09248]	1.000	ug/L	
Zinc	1.346	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	91770	ug/L	92
Calcium	300000	296100	ug/L	99
Iron	250000	210500	ug/L	84
Magnesium	100000	92760	ug/L	93
Molybdenum	2000	2087	ug/L	104
Potassium	100000	98630	ug/L	99
Sodium	250000	226600	ug/L	91

ISTD (ICALBLK d0411003)	ICALBLK Abund	Abund	%Drift
Lithium	362929	288944	-20.39
Scandium	131427	109041	-17.03
Germanium	30176	27569	-8.64
Indium	208225	172604	-17.11
Bismuth	301976	210497	-30.29

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56136078101 File : d0411101 Time : 04-APR-2006 22:21
Cal : 56136078001 Caldate: 04-APR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	89420	ug/L	-11		
Arsenic	100.0	93.80	ug/L	-6	20	
Cadmium	100.0	92.13	ug/L	-8	20	
Calcium	300000	295500	ug/L	-2		
Chromium	200.0	204.3	ug/L	2	20	
Cobalt	200.0	188.2	ug/L	-6	20	
Copper	200.0	180.1	ug/L	-10	20	
Iron	250000	221300	ug/L	-11		
Magnesium	100000	91920	ug/L	-8		
Manganese	200.0	204.0	ug/L	2	20	
Molybdenum	2000	2120	ug/L	6		
Nickel	200.0	183.6	ug/L	-8	20	
Potassium	100000	96660	ug/L	-3		
Selenium	100.0	83.50	ug/L	-17	20	
Silver	50.00	46.53	ug/L	-7	20	
Sodium	250000	228800	ug/L	-8		
Vanadium	200.0	204.4	ug/L	2	20	
Zinc	100.0	82.37	ug/L	-18	20	

ISTD (ICALBLK d0411003)	ICALBLK Abund	Abund	%Drift
Scandium	131427	84626	-35.61
Germanium	30176	20394	-32.42

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56136078 Instrument: MET05 Agilent ICP-MS Begun: 04-APR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	d0411001	TUN				04-APR-2006 11:58	1.0	1.0			1	
003	d0411003	ICALBLK	std-blk			04-APR-2006 12:10	1.0	1.0			2	
004	d0411004	ICAL	CS1			04-APR-2006 12:16	1.0	1.0			3	
005	d0411005	ICAL	CS2			04-APR-2006 12:21	1.0	1.0			4	
006	d0411006	ICAL	CS3			04-APR-2006 12:27	1.0	1.0			5	
007	d0411007	ICAL	CS4			04-APR-2006 12:32	1.0	1.0			6	
008	d0411008	ICAL	CS5			04-APR-2006 12:41	1.0	1.0			7	
009	d0411009	ICAL	CS6			04-APR-2006 12:47	1.0	1.0			8	
010	d0411010	ICV				04-APR-2006 12:52	1.0	1.0		1	9 2	
012	d0411012	ICB				04-APR-2006 13:03	1.0	1.0		1	2	
013	d0411013	ICSA				04-APR-2006 13:09	1.0	1.0		1	10 2	7:CA=299200
014	d0411014	ICSAB				04-APR-2006 13:14	1.0	1.0		1	11 2	10:CA=306200
016	d0411016	SAMPLE	185668-007	111706	Water	04-APR-2006 13:25	2.0	1.0		1	2	1:AL=639.500
017	d0411017	SAMPLE	185668-008	111706	Water	04-APR-2006 13:31	2.0	1.0	1	1	2	2:CA=21205.0
018	d0411018	SAMPLE	185668-007	111706	Filtra	04-APR-2006 13:37	1.0	1.0	1	1	2	1:MN=272.600
019	d0411019	SAMPLE	185668-007	111706	Filtra	04-APR-2006 13:42	2.0	1.0		1	2	
020	d0411020	SAMPLE	185668-008	111706	Filtra	04-APR-2006 13:48	1.0	1.0		1	2	2:CA=38570.0
021	d0411021	SAMPLE	185668-009	111706	Filtra	04-APR-2006 13:53	1.0	1.0		1	2	3:NA=46060.0
022	d0411022	SAMPLE	185668-010	111706	Filtra	04-APR-2006 13:59	1.0	1.0		1	2	3:NA=48300.0
024	d0411024	CCV				04-APR-2006 14:10	1.0	1.0		1	12 2	
026	d0411026	CCB				04-APR-2006 14:21	1.0	1.0		1	2	
028	d0411028	BLANK	QC334199	111981	Water	04-APR-2006 14:32	1.0	1.0	1	1	2	
029	d0411029	BS	QC334200	111981	Water	04-APR-2006 14:38	1.0	1.0	1	1	2	
030	d0411030	BSD	QC334201	111981	Water	04-APR-2006 14:44	1.0	1.0	1	1	2	
032	d0411032	MSS	185952-001	111981	Water	04-APR-2006 14:55	1.0	1.0	6	1	2	6:NA=113800
033	d0411033	MS	QC334202	111981	Water	04-APR-2006 15:00	1.0	1.0		1	2	6:NA=118100
034	d0411034	MSD	QC334203	111981	Water	04-APR-2006 15:06	1.0	1.0		1	2	6:NA=117700
036	d0411036	SAMPLE	185952-002	111981	Water	04-APR-2006 15:17	1.0	1.0		1	2	4:NA=112300
038	d0411038	SAMPLE	185952-001	111981	Filtra	04-APR-2006 15:59	1.0	1.0		1	2	5:NA=86890.0
039	d0411039	SAMPLE	185952-002	111981	Filtra	04-APR-2006 16:05	1.0	1.0		1	2	3:NA=98090.0
041	d0411041	CCV				04-APR-2006 16:16	1.0	1.0	1	1	12 2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: K Carlyn Date: 4/4/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56136078 Instrument: MET05 Agilent ICP-MS Begun: 04-APR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
043	d0411043	CCB				04-APR-2006 16:27	1.0	1.0			1	2	
044	d0411044	BLANK	QC333515	111807	Filtra	04-APR-2006 16:33	1.0	1.0	1		1	2	
046	d0411046	BS	QC333516	111807	Filtra	04-APR-2006 16:44	1.0	1.0	1		1	2	
047	d0411047	BSD	QC333517	111807	Filtra	04-APR-2006 16:49	1.0	1.0	1		1	2	
048	d0411048	MSS	185622-001	111807	Filtra	04-APR-2006 16:56	1.0	1.0	3		1	2	2:NA=203900
049	d0411049	SER	QC333520	111807	Filtra	04-APR-2006 17:01	5.0	1.0	1		1	2	1:NA=42600.0
050	d0411050	MS	QC333518	111807	Filtra	04-APR-2006 17:07	1.0	1.0	3		1	2	4:NA=209700
051	d0411051	MSD	QC333519	111807	Filtra	04-APR-2006 17:12	1.0	1.0	3		1	2	4:NA=206400
052	d0411052	PDS	QC333521	111807	Filtra	04-APR-2006 17:18	1.0	1.0	3		1	13 2	4:NA=212300
054	d0411054	CCV				04-APR-2006 17:29	1.0	1.0			1	12 2	
055	d0411055	X	RINSE	111706		04-APR-2006 17:35	1.0					2	
056	d0411056	CCB				04-APR-2006 17:40	1.0	1.0			1	2	
057	d0411057	ICSA				04-APR-2006 17:46	1.0	1.0			1	10 2	7:CA=308800
058	d0411058	ICSAB				04-APR-2006 17:51	1.0	1.0			1	11 2	9:CA=306400
059	d0411059	X	RINSE	111706		04-APR-2006 17:57	1.0					2	
060	d0411060	SAMPLE	185622-002	111807	Filtra	04-APR-2006 18:03	1.0	1.0	1		1	2	4:NA=182000
061	d0411061	SAMPLE	185622-003	111807	Filtra	04-APR-2006 18:08	1.0	1.0	4		1	2	3:NA=29260.0
062	d0411062	SAMPLE	185622-004	111807	Filtra	04-APR-2006 18:14	1.0	1.0	3		1	2	2:NA=51720.0
063	d0411063	SAMPLE	185622-005	111807	Filtra	04-APR-2006 18:19	1.0	1.0	2		1	2	1:CA=31900.0
064	d0411064	SAMPLE	185622-006	111807	Filtra	04-APR-2006 18:25	1.0	1.0	2		1	2	1:CA=32210.0
065	d0411065	SAMPLE	185622-007	111807	Filtra	04-APR-2006 18:31	1.0	1.0	1		1	2	
072	d0411072	CCV				04-APR-2006 19:35	1.0	1.0	1		1	12 2	
073	d0411073	X	RINSE			04-APR-2006 19:40	1.0					2	
074	d0411074	CCB				04-APR-2006 19:46	1.0	1.0			1	2	
075	d0411075	SAMPLE	185622-008	111807	Filtra	04-APR-2006 19:52	1.0	1.0	4		1	2	3:MG=59220.0
076	d0411076	SAMPLE	185622-009	111807	Filtra	04-APR-2006 19:57	1.0	1.0	4		1	2	3:NA=52130.0
077	d0411077	SAMPLE	185622-010	111807	Filtra	04-APR-2006 20:03	1.0	1.0	4		1	2	3:NA=38250.0
078	d0411078	SAMPLE	185622-011	111807	Filtra	04-APR-2006 20:08	1.0	1.0	5		1	2	4:NA=44690.0
079	d0411079	SAMPLE	185622-012	111807	Filtra	04-APR-2006 20:14	1.0	1.0	4		1	2	3:MG=46920.0
080	d0411080	SAMPLE	185622-013	111807	Filtra	04-APR-2006 20:20	1.0	1.0	4		1	2	3:NA=54960.0
081	d0411081	SAMPLE	185622-014	111807	Filtra	04-APR-2006 20:25	1.0	1.0	4		1	2	3:NA=87330.0

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: K Carlson Date: 4/4/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56136078 Instrument: MET05 Agilent ICP-MS Begun: 04-APR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

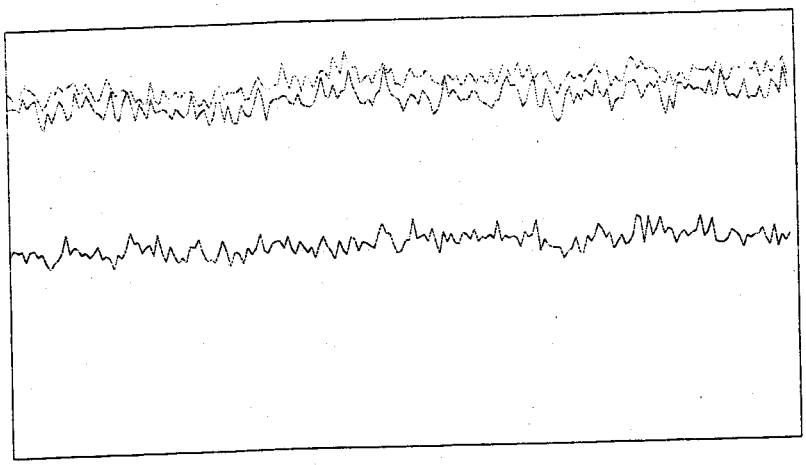
#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
085	d0411085	X	RINSE			04-APR-2006 20:48	1.0					2	
086	d0411086	CCV				04-APR-2006 20:53	1.0	1.0	1		1	12 2	
087	d0411087	X	RINSE			04-APR-2006 21:02	1.0					2	
088	d0411088	CCB				04-APR-2006 21:07	1.0	1.0	1		1	2	
089	d0411089	ICSA				04-APR-2006 21:13	1.0	1.0			1	10 2	7:CA=302100
090	d0411090	ICSAB				04-APR-2006 21:19	1.0	1.0			1	11 2	10:CA=304400
092	d0411092	SAMPLE	185622-018	111807	Filtra	04-APR-2006 21:30	1.0	1.0	3		1	2	2:MG=78270.0
093	d0411093	SAMPLE	185622-015	111807	Filtra	04-APR-2006 21:36	1.0	1.0	3		1	2	2:NA=147600
094	d0411094	SAMPLE	185622-016	111807	Filtra	04-APR-2006 21:41	1.0	1.0	5		1	2	4:NA=50750.0
095	d0411095	SAMPLE	185622-017	111807	Filtra	04-APR-2006 21:47	1.0	1.0	3		1	2	2:MG=48550.0
096	d0411096	X	RINSE	111706		04-APR-2006 21:53	1.0					2	
097	d0411097	CCV				04-APR-2006 21:58	1.0	1.0			1	12 2	
098	d0411098	X	RINSE	111706		04-APR-2006 22:04	1.0					2	
099	d0411099	CCB				04-APR-2006 22:10	1.0	1.0			1	2	
100	d0411100	ICSA				04-APR-2006 22:15	1.0	1.0			1	10 2	7:CA=296100
101	d0411101	ICSAB				04-APR-2006 22:21	1.0	1.0			1	11 2	10:CA=295800
103	d0411103	TUN				04-APR-2006 22:34	1.0	1.0				1	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: K Carlyn Date: 4/4/06

Tune Report

Tune File : ATUNE.U



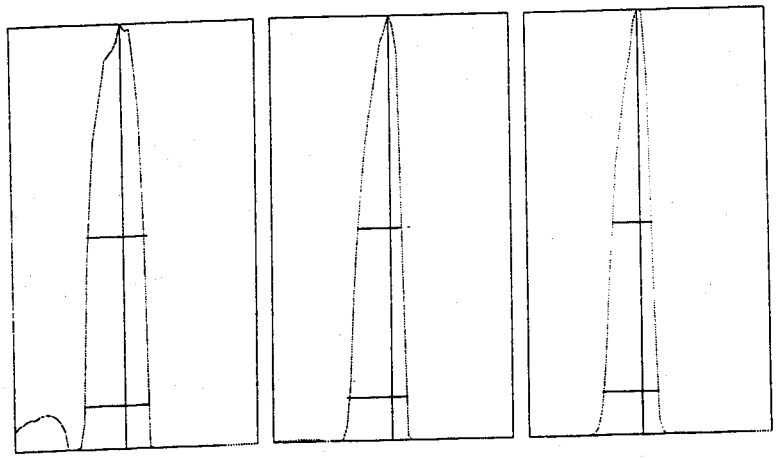
m/z:	7	89	205
Range:	50,000	20,000	20,000
Count:	23,982	16,344	16,955
Mean:	23825.5	16255.7	17155.4
RSD%:	4.26	2.99	2.44
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.32%
Doubly Charged:	70/140	2.09%

Background:

m/z:	7	89	205
Cps:	10.7	6.0	6.9



m/z:	7	89	205
Height:	24,756	15,876	16,830
Axis:	6.90	89.00	204.95
W-50%:	0.75	0.55	0.50
W-10%:	0.800	0.7500	0.700

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===

RF Power:	1320 W
RF Matching:	1.62 V
Smpl Depth:	6.1 mm
Torch-H:	0 mm
Torch-V:	0.4 mm
Carrier Gas:	1.08 L/min
Makeup Gas:	0 L/min
Optional Gas:	--- %
PeriPump1:	0.1 rps
PeriPump2:	--- rps
S/C Temp:	2 degC

===Ion Lenses===

Extract 1:	-101.6 V
Extract 2:	-164 V
Einzel 1,3:	-182 V
Einzel 2:	6 V
Omega Bias:	-74 V
Omega (+):	1.2 V
Omega (-):	-4 V
QP Focus:	4.4 V
Plate Bias:	-43.2 V

===Q-Pole Parameters===

AMU Gain:	131
AMU Offset:	125
Axis Gain:	0.9996
Axis Offset:	-0.06
QP Bias:	1.5 V

===Detector Parameters===

Discriminator:	8.7 mV
Analog HV:	1790 V
Pulse HV:	1260 V

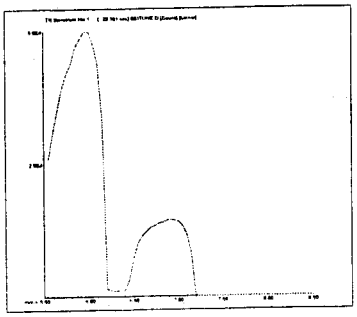
Generated : Apr 05, 2006 10:25:28
Printed : Apr 05, 2006 10:25:34

6020 QC Tune Report

Data File:	C:\ICPCHEM\1\DATA\06D0510a.B\001TUNE.D
Date Acquired:	Apr 5 2006 10:59 am
Acq. Method:	TN6020.M
Operator:	
Sample Name:	TUN,S2898
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

Element	Actual	Required	Flag
7 Li	3.12	5.00	
59 Co	2.11	5.00	
115 In	0.55	5.00	
205 Tl	2.02	5.00	



7 Li

Mass Calib.

Actual: 6.90

Required: 6.90 - 7.10

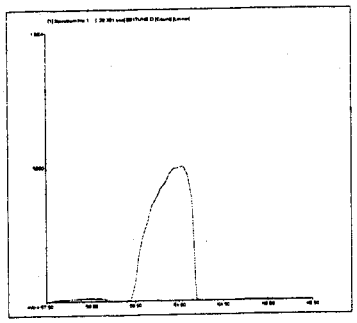
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



59 Co

Mass Calib.

Actual: 59.05

Required: 58.90 - 59.10

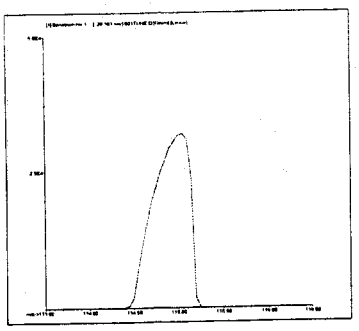
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



115 In

Mass Calib.

Actual: 115.05

Required: 114.90 - 115.10

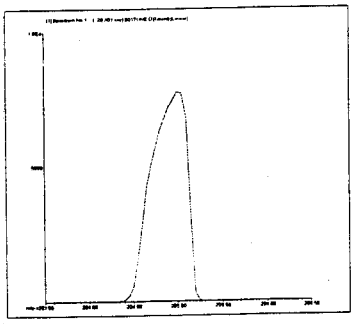
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



205 Tl

Mass Calib.

Actual: 205.00

Required: 204.90 - 205.10

Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06D0510a.B\002BLNK.D\002BLNK.D#
Date Acquired:	Apr 5 2006 11:05 am
Acq. Method:	60200111.M
Operator:	
Sample Name:	RINSE
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update:	Apr 04 2006 11:44 pm
Sample Type:	6-Blank
Dilution Factor:	1.00

QC Elements

Element	Corr. Conc.	RSD(%)	Raw Conc.	High Limit	Flag
9 Be	-0.01804 ppb	11.26	-0.01804	1.00	
23 Na	38.83 ppb	4.09	38.83	1.00	
26 Mg	-12.36 ppb	0.05	-12.36	1.00	
27 Al	-2.8 ppb	0.98	-2.8	1.00	
39 K	-15.24 ppb	3.37	-15.24	1.00	
44 Ca	-23.21 ppb	1.97	-23.21	1.00	
51 V	-0.09645 ppb	85.33	-0.09645	1.00	
52 Cr	-0.02934 ppb	71.44	-0.02934	1.00	
55 Mn	-0.05082 ppb	6.67	-0.05082	1.00	
57 Fe	-13.85 ppb	4.87	-13.85	1.00	
59 Co	-0.01676 ppb	12.69	-0.01676	1.00	
60 Ni	0.06924 ppb	55.33	0.06924	1.00	
65 Cu	0.1445 ppb	18.36	0.1445	1.00	
66 Zn	0.1102 ppb	105.99	0.1102	1.00	
75 As	0.05789 ppb	20.80	0.05789	1.00	
82 Se	0.3533 ppb	82.96	0.3533	1.00	
95 Mo	-0.1077 ppb	2.68	-0.1077	1.00	
109 Ag	0.00853 ppb	43.18	0.00853	1.00	
111 Cd	-0.02017 ppb	41.12	-0.02017	1.00	
121 Sb	-0.01135 ppb	52.40	-0.01135	1.00	
137 Ba	-0.003654 ppb	566.78	-0.003654	1.00	
205 Tl	0.04698 ppb	42.02	0.04698	1.00	
208 Pb	-0.006648 ppb	23.93	-0.006648	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	479160.19	2.19	---	#VALUE!	80 - 120	
45 Sc	154083.33	0.59	---	#VALUE!	80 - 120	
72 Ge	35897.56	0.40	---	#VALUE!	80 - 120	
115 In	240269.31	0.49	---	#VALUE!	80 - 120	
209 Bi	349945.53	1.36	---	#VALUE!	80 - 120	

ISTD Ref File : ---

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Fail
ISTD: Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06D0510a.B\003CAL
Date Acquired:	Apr 5 2006 11:11 am
Operator:	
Sample Name:	std-blk
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Apr 04 2006 11:44 pm
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	484978.41	A	11370.00	2.34
9	Be	13.33	P	10.00	75.00
23	Na	418993.31	P	8477.00	2.02
26	Mg	154.44	P	10.72	6.94
27	Al	2908.89	P	208.30	7.16
39	K	168212.20	P	895.40	0.53
44	Ca	918.40	P	44.56	4.85
45	Sc	154632.20	P	1303.00	0.84
51	V	319.90	P	209.90	65.61
52	Cr	1103.33	P	50.44	4.57
55	Mn	254.44	P	28.74	11.30
57	Fe	951.11	P	80.58	8.47
59	Co	40.00	P	15.28	38.20
60	Ni	182.22	P	20.37	11.18
65	Cu	316.67	P	11.55	3.65
66	Zn	428.89	P	45.01	10.50
72	Ge	35997.33	P	650.70	1.81
75	As	112.19	P	64.22	57.24
82	Se	41.78	P	8.04	19.24
95	Mo	23.33	P	5.77	24.75
109	Ag	83.33	P	3.33	4.00
111	Cd	32.03	P	20.68	64.56
115	In	242377.00	P	1383.00	0.57
121	Sb	31.11	P	10.72	34.46
137	Ba	24.44	P	3.85	15.75
205	Tl	276.67	P	29.06	10.50
208	Pb	212.22	P	10.72	5.05
209	Bi	351202.19	P	4038.00	1.15

	Type	Vial	Data File	Method	Sample	Comment	Dil/Lvl	Action on Failure	Skip	Result
1	Sample	3408		60200111	185622-030	111808,1	1			
2	Sample	3409		60200111	185622-031	111808,1	1			
3	Sample	3410		60200111	185622-033	111808,1	1			
4	Sample	3411		60200111	185622-034	111808,1	1			
5	Sample	3412		60200111	185622-035	111808,1	1			
6	Sample	3501		60200111	185622-036	111808,1	1			
7	Sample	3502		60200111	185622-037	111808,1	1			
8	Sample	3503		60200111	185622-018	111808,1	1			
9	6-ICSA	1204		60200111	ICSA,S2893		1			
10	6-ICSAB	1205		60200111	ICSAB,S2894		1			
11	6-Blank	3		60200111	RINSE		1			
12	Sample	2101		60200111	QC333690	111849,1	1			
13	Sample	2102		60200111	QC333691	111849,1	1			
14	Sample	2103		60200111	QC333692	111849,1	1			
15	Sample	2104		60200111	185679-011	111849,1	5			
16	Sample	2105		60200111	QC333695	111849,5	1			
17	Sample	2106		60200111	QC333693	111849,1	1			
18	Sample	2107		60200111	QC333694	111849,1	1			
19	Sample	2108		60200111	QC333696	111849,S2309,0.1/10	1			
20	Sample	2109		60200111	185679-001	111849,1	1			
21	Sample	2110		60200111	185679-002	111849,1	1			
22	Sample	2111		60200111	185679-003	111849,1	1			
23	Sample	2112		60200111	185679-004	111849,1	1			
24	Sample	2201		60200111	185679-005	111849,1	1			
25	Sample	2202		60200111	185679-006	111849,1	1			
26	Sample	2203		60200111	185679-007	111849,1	1			
27	Sample	2204		60200111	185679-008	111849,1	1			
28	Sample	2205		60200111	185679-010	111849,1	1			
29	Sample	2206		60200111	185679-012	111849,1	1			
30	Sample	2207		60200111	185679-013	111849,1	1			
31	Sample	2208		60200111	185679-014	111849,1	1			
32	Sample	2209		60200111	185679-015	111849,1	1			
33	Sample	2210		60200111	185679-016	111849,1	1			
34	Sample	2211		60200111	185679-017	111849,1	1			
35	Sample	2212		60200111	185679-019	111849,1	1			

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D0510a.B\004CALI.D\004CALI.D#
Date Acquired: Apr 5 2006 11:16 am
Operator:
Sample Name: CS1,S2889
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 05 2006 11:12 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean	SD	RSD(%)
6 Li	472774.09 A	15120.00	3.20
9 Be	666.67 P	69.28	10.39
23 Na	645354.63 A	12170.00	1.89
26 Mg	15464.44 P	303.00	1.96
27 Al	6571.11 P	62.75	0.95
39 K	250087.80 P	1129.00	0.45
44 Ca	4735.09 P	63.40	1.34
45 Sc	155346.70 P	1521.00	0.98
51 V	1513.52 P	363.10	23.99
52 Cr	3344.44 P	135.00	4.04
55 Mn	1776.67 P	32.15	1.81
57 Fe	3906.67 P	118.60	3.04
59 Co	1258.89 P	63.36	5.03
60 Ni	546.67 P	37.12	6.79
65 Cu	539.93 P	89.88	16.65
66 Zn	1469.92 P	23.33	1.59
72 Ge	35934.00 P	278.50	0.78
75 As	226.05 P	28.36	12.55
82 Se	50.67 P	4.37	8.63
95 Mo	317.78 P	21.69	6.83
109 Ag	827.78 P	30.97	3.74
111 Cd	201.91 P	2.74	1.36
115 In	241627.41 P	517.30	0.21
121 Sb	516.67 P	63.60	12.31
137 Ba	222.22 P	25.24	11.36
205 Tl	2081.11 P	65.18	3.13
208 Pb	3073.33 P	172.40	5.61
209 Bi	350752.19 P	4461.00	1.27

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	472774.16	3.20	484978.41	97.5	80 - 120	

45	Sc	155346.66	0.98	154632.22	100.5	80 -	120
72	Ge	35934.00	0.78	35997.33	99.8	80 -	120
115	In	241627.36	0.21	242377.02	99.7	80 -	120
209	Bi	350752.19	1.27	351202.19	99.9	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0510a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D0510a.B\005CALI.D\005CALI.D#
Date Acquired: Apr 5 2006 11:22 am
Operator:
Sample Name: CS2,S2890
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 05 2006 11:18 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean	SD	RSD(%)
6 Li	482627.50 A	17350.00	3.59
9 Be	1215.56 P	80.71	6.64
23 Na	805435.81 A	16350.00	2.03
26 Mg	30395.56 P	275.00	0.90
27 Al	8420.00 P	52.39	0.62
39 K	328562.19 P	2804.00	0.85
44 Ca	7422.59 P	329.60	4.44
45 Sc	156265.59 P	760.00	0.49
51 V	2568.29 P	305.60	11.90
52 Cr	3948.89 P	38.63	0.98
55 Mn	3190.00 P	173.20	5.43
57 Fe	6752.22 P	132.70	1.97
59 Co	2535.56 P	46.23	1.82
60 Ni	746.67 P	67.41	9.03
65 Cu	862.09 P	65.18	7.56
66 Zn	1338.74 P	93.35	6.97
72 Ge	36076.89 P	271.90	0.75
75 As	366.39 P	66.26	18.09
82 Se	76.67 P	10.41	13.58
95 Mo	584.44 P	34.69	5.94
109 Ag	1698.89 P	127.60	7.51
111 Cd	384.91 P	14.55	3.78
115 In	244248.00 P	2888.00	1.18
121 Sb	1027.78 P	30.97	3.01
137 Ba	397.78 P	19.25	4.84
205 Tl	3590.00 P	266.10	7.41
208 Pb	5887.78 P	281.50	4.78
209 Bi	355720.00 P	2505.00	0.70

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	482627.47	3.59	484978.41	99.5	80 -	120	

45	Sc	156265.55	0.49	154632.22	101.1	80 -	120
72	Ge	36076.89	0.75	35997.33	100.2	80 -	120
115	In	244247.95	1.18	242377.02	100.8	80 -	120
209	Bi	355720.00	0.70	351202.19	101.3	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0510a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D0510a.B\006CALI.D\006CALI.D#
Date Acquired: Apr 5 2006 11:27 am
Operator:
Sample Name: CS3,S2891
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 05 2006 11:23 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean	SD	RSD(%)
6 Li	483112.81 A	8167.00	1.69
9 Be	2501.11 P	26.94	1.08
23 Na	1150341.00 A	11040.00	0.96
26 Mg	60430.00 P	495.70	0.82
27 Al	13730.00 P	112.60	0.82
39 K	491364.41 P	2019.00	0.41
44 Ca	12485.68 P	443.10	3.55
45 Sc	153610.00 P	689.80	0.45
51 V	4593.96 P	141.00	3.07
52 Cr	6385.56 P	59.66	0.93
55 Mn	5704.44 P	90.51	1.59
57 Fe	12341.11 P	111.70	0.91
59 Co	5055.56 P	48.80	0.97
60 Ni	1305.56 P	84.61	6.48
65 Cu	1539.73 P	122.40	7.95
66 Zn	1915.25 P	58.91	3.08
72 Ge	35990.67 P	170.70	0.47
75 As	672.86 P	51.16	7.60
82 Se	101.33 P	2.31	2.28
95 Mo	1197.78 P	56.80	4.74
109 Ag	3350.00 P	80.07	2.39
111 Cd	725.42 P	58.47	8.06
115 In	243729.09 P	1711.00	0.70
121 Sb	2054.44 P	128.10	6.24
137 Ba	823.33 P	58.12	7.06
205 Tl	7025.56 P	165.00	2.35
208 Pb	11571.11 P	282.20	2.44
209 Bi	352864.41 P	3585.00	1.02

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	483112.78	1.69	484978.41	99.6	80 - 120	

45	Sc	153610.00	0.45	154632.22	99.3	80 -	120
72	Ge	35990.67	0.47	35997.33	100.0	80 -	120
115	In	243729.11	0.70	242377.02	100.6	80 -	120
209	Bi	352864.44	1.02	351202.19	100.5	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0510a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D0510a.B\007CALI.D\007CALI.D#
Date Acquired: Apr 5 2006 11:33 am
Operator:
Sample Name: CS4,S2892
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 05 2006 11:29 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean	SD	RSD(%)
6 Li	490188.00 A	10910.00	2.23
9 Be	24373.33 P	352.60	1.45
23 Na	7393363.00 A	81850.00	1.11
26 Mg	667136.38 A	18860.00	2.83
27 Al	90110.00 P	2978.00	3.30
39 K	3615090.00 A	84850.00	2.35
44 Ca	101866.60 P	972.20	0.95
45 Sc	157722.20 P	2278.00	1.44
51 V	43653.36 P	1012.00	2.32
52 Cr	41165.56 P	1304.00	3.17
55 Mn	53705.55 P	544.10	1.01
57 Fe	115585.60 P	1876.00	1.62
59 Co	50445.55 P	1416.00	2.81
60 Ni	11430.00 P	315.40	2.76
65 Cu	13813.85 P	287.00	2.08
66 Zn	9068.89 P	175.10	1.93
72 Ge	37022.00 P	648.50	1.75
75 As	5989.05 P	80.17	1.34
82 Se	577.11 P	33.28	5.77
95 Mo	11913.33 P	505.80	4.25
109 Ag	33115.56 P	1292.00	3.90
111 Cd	6641.54 P	339.80	5.12
115 In	249008.70 P	6823.00	2.74
121 Sb	20604.44 P	430.10	2.09
137 Ba	7481.11 P	217.50	2.91
205 Tl	76102.22 P	4015.00	5.28
208 Pb	118125.60 P	3221.00	2.73
209 Bi	366107.81 P	6454.00	1.76

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	490188.00	2.23	484978.41	101.1	80 - 120	

45	Sc	157722.22	1.44	154632.22	102.0	80 -	120
72	Ge	37022.00	1.75	35997.33	102.8	80 -	120
115	In	249008.73	2.74	242377.02	102.7	80 -	120
209	Bi	366107.78	1.76	351202.19	104.2	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0510a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06D0510a.B\008CALI.D\008CALI.D#
Date Acquired:	Apr 5 2006 11:39 am
Operator:	
Sample Name:	CS5,S2886
Misc Info:	
Vial Number:	1106
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Apr 05 2006 11:35 am
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	465899.09	A	10550.00	2.26
9 Be	231901.09	P	4141.00	1.79
23 Na	64135768.00	A	1418000.00	2.21
26 Mg	5978198.00	A	97330.00	1.63
27 Al	446724.41	P	6100.00	1.37
39 K	31396650.00	A	1048000.00	3.34
44 Ca	986703.63	A	13090.00	1.33
45 Sc	152606.70	P	2277.00	1.49
51 V	411713.69	P	4860.00	1.18
52 Cr	377186.69	P	4351.00	1.15
55 Mn	496748.91	P	5385.00	1.08
57 Fe	1116479.00	A	8361.00	0.75
59 Co	471566.59	P	6405.00	1.36
60 Ni	105937.80	P	1552.00	1.47
65 Cu	125342.40	P	428.20	0.34
66 Zn	69066.77	P	556.30	0.81
72 Ge	35789.55	P	392.50	1.10
75 As	55457.29	P	486.30	0.88
82 Se	4848.00	P	105.90	2.18
95 Mo	110001.10	P	840.30	0.76
109 Ag	291110.00	P	3465.00	1.19
111 Cd	60668.94	P	428.90	0.71
115 In	236118.09	P	1120.00	0.47
121 Sb	190797.80	P	562.10	0.29
137 Ba	69350.00	P	658.20	0.95
205 Tl	778007.69	P	4005.00	0.51
208 Pb	1086697.00	P	4203.00	0.39
209 Bi	349251.09	P	2114.00	0.61

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	465899.09	2.26	484978.41	96.1	80 -	120	

45	Sc	152606.66	1.49	154632.22	98.7	80 -	120
72	Ge	35789.56	1.10	35997.33	99.4	80 -	120
115	In	236118.11	0.47	242377.02	97.4	80 -	120
209	Bi	349251.09	0.61	351202.19	99.4	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0510a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D0510a.B\009CALI.D\009CALI.D#
Date Acquired: Apr 5 2006 11:44 am
Operator:
Sample Name: CS6,S2887
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 05 2006 11:40 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	457895.50	A	9953.00	2.17
9	Be	430825.50	P	3399.00	0.79
23	Na	118788200.00	A	2368000.00	1.99
26	Mg	11131080.00	A	97250.00	0.87
27	Al	875572.50	A	13130.00	1.50
39	K	59744220.00	A	668500.00	1.12
44	Ca	1862805.00	A	32690.00	1.75
45	Sc	149653.30	P	1986.00	1.33
51	V	856783.50	A	17840.00	2.08
52	Cr	753507.38	A	13020.00	1.73
55	Mn	997785.88	A	20050.00	2.01
57	Fe	2136878.00	A	56000.00	2.62
59	Co	947376.50	A	14830.00	1.57
60	Ni	200514.41	P	4376.00	2.18
65	Cu	236147.20	P	2219.00	0.94
66	Zn	129907.70	P	495.30	0.38
72	Ge	34950.22	P	372.40	1.07
75	As	104632.00	P	1591.00	1.52
82	Se	9003.33	P	75.65	0.84
95	Mo	212844.41	P	3527.00	1.66
109	Ag	575764.38	P	5220.00	0.91
111	Cd	116873.40	P	1319.00	1.13
115	In	232428.41	P	895.30	0.39
121	Sb	372866.69	P	4871.00	1.31
137	Ba	137295.59	P	2180.00	1.59
205	Tl	1622084.00	A	13360.00	0.82
208	Pb	2141639.00	A	11820.00	0.55
209	Bi	336402.19	P	5926.00	1.76

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6	Li	457895.50	2.17	484978.41	94.4	80 -	120	

45	Sc	149653.33	1.33	154632.22	96.8	80 -	120
72	Ge	34950.22	1.07	35997.33	97.1	80 -	120
115	In	232428.34	0.39	242377.02	95.9	80 -	120
209	Bi	336402.19	1.76	351202.19	95.8	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0510a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Summary

Calibration : C:\ICPCHEM\1\CALIB\60200111.C
Last Calib: Apr 05, 2006 11:46
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\06d0510a.b\003calb.d\	003calb.d#	Apr 5 2006 11:11 am
2	...hem\1\data\06d0510a.b\004cali.d\	004cali.d#	Apr 5 2006 11:16 am
3	...hem\1\data\06d0510a.b\005cali.d\	005cali.d#	Apr 5 2006 11:22 am
4	...hem\1\data\06d0510a.b\006cali.d\	006cali.d#	Apr 5 2006 11:27 am
5	...hem\1\data\06d0510a.b\007cali.d\	007cali.d#	Apr 5 2006 11:33 am
6	...hem\1\data\06d0510a.b\008cali.d\	008cali.d#	Apr 5 2006 11:39 am
7	...hem\1\data\06d0510a.b\009cali.d\	009cali.d#	Apr 5 2006 11:44 am
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	Excluded	---	ppb
Be	9	6	Y = 2.380E-1*X +1.388E-3(blank)	---	ppb
Na	23	45	Y = 2.000E+0*X +1.355E+2(blank)	---	ppb
Mg	25	45	Excluded	---	ppb
Mg	26	45	Y = 1.880E-1*X +4.994E-2(blank)	---	ppb
Al	27	45	Y = 1.460E+0*X +9.410E-1(blank)	---	ppb
K	39	45	Y = 1.001E+0*X +5.439E+1(blank)	---	ppb
Ca	43	45	Excluded	---	ppb
Ca	44	45	Y = 3.134E-2*X +2.969E-1(blank)	---	ppb
Sc	45	---	Excluded	---	ppb
V	51	72	Y = 6.050E+0*X +4.469E-1(blank)	---	ppb
Cr	52	72	Y = 5.357E+0*X +1.532E+0(blank)	---	ppb
Cr	53	72	Excluded	---	ppb
Fe	54	72	Excluded	---	ppb
Mn	55	72	Y = 7.096E+0*X +3.539E-1(blank)	---	ppb
Fe	57	72	Y = 1.534E-1*X +1.321E+0(blank)	---	ppb
Co	59	72	Y = 6.739E+0*X +5.556E-2(blank)	---	ppb
Ni	60	72	Y = 1.442E+0*X +2.535E-1(blank)	---	ppb
Cu	63	72	Excluded	---	ppb
Cu	65	72	Y = 1.699E+0*X +4.401E-1(blank)	---	ppb
Zn	66	72	Y = 9.333E-1*X +5.964E-1(blank)	---	ppb
Ge	72	---	Excluded	---	ppb
As	75	72	Y = 7.528E-1*X +1.568E-1(blank)	---	ppb
(As)	77	72	Excluded	---	ppb
Se	82	72	Y = 6.474E-2*X +5.817E-2(blank)	---	ppb
(As)	83	72	Excluded	---	ppb
(Ca)	88	72	Excluded	---	ppb
Y	89	72	Excluded	---	ppb
Mo	95	72	Y = 1.525E+0*X +3.248E-2(blank)	---	ppb
Mo	98	72	Excluded	---	ppb
(Mo)	99	72	Excluded	---	ppb
(Cd)	106	72	Excluded	---	ppb
(Cd)	108	72	Excluded	---	ppb
Ag	109	72	Y = 4.108E+0*X +1.158E-1(blank)	---	ppb
Cd	111	72	Y = 8.382E-1*X +4.474E-2(blank)	---	ppb
Cd	114	72	Excluded	---	ppb
In	115	---	Excluded	---	ppb
(In)	118	---	Excluded	---	ppb
Sb	121	115	Y = 4.016E-1*X +6.412E-3(blank)	---	ppb
Ba	135	115	Excluded	---	ppb
Ba	137	115	Y = 1.475E-1*X +5.043E-3(blank)	---	ppb
Tb	159	---	Excluded	---	ppb
Er	166	115	Excluded	---	ppb
Tl	205	209	Y = 1.187E+0*X +3.942E-2(blank)	---	ppb
(Pb)	206	209	Excluded	---	ppb
(Pb)	207	209	Excluded	---	ppb
Pb	208	209	Y = 1.584E+0*X +3.022E-2(blank)	---	ppb
Bi	209	---	Excluded	---	ppb
Th	232	209	--------	---	ppb
U	238	209	--------	---	ppb

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05
Seqnum : 56137459010
Cal : 56137459001
Standards: S2895

File : d0510010
Caldate: 05-APR-2006

IDF : 1.0
Time : 05-APR-2006 11:50

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	3.1281	1.3356	100.0	90.83	ug/L	-9	10	
Antimony	0.4148	0.3950	100.0	98.34	ug/L	-2	10	
Arsenic	0.8566	0.7529	100.0	99.80	ug/L	0	10	
Barium	0.1601	0.1453	100.0	98.50	ug/L	-2	10	
Beryllium	0.2542	0.2278	100.0	95.69	ug/L	-4	10	
Cadmium	0.9631	0.8480	100.0	101.1	ug/L	1	10	
Calcium	0.0368	0.0311	10000	9911	ug/L	-1	10	
Chromium	7.2071	5.1468	100.0	95.80	ug/L	-4	10	
Cobalt	6.8729	6.3423	100.0	94.11	ug/L	-6	10	
Copper	1.9669	1.6910	100.0	99.26	ug/L	-1	10	
Iron	0.1647	0.1520	10000	9900	ug/L	-1	10	
Lead	1.6347	1.5400	100.0	97.17	ug/L	-3	10	
Magnesium	0.1969	0.1833	10000	9752	ug/L	-2	10	
Manganese	7.9977	6.7531	100.0	95.12	ug/L	-5	10	
Molybdenum	1.5903	1.4972	100.0	98.14	ug/L	-2	10	
Nickel	1.8973	1.4165	100.0	98.05	ug/L	-2	10	
Potassium	1.3750	0.9692	10000	9626	ug/L	-4	10	
Selenium	0.1126	0.0680	100.0	104.2	ug/L	4	10	
Silver	4.4375	4.1726	100.0	101.5	ug/L	2	10	
Sodium	3.0658	1.9497	10000	9679	ug/L	-3	10	
Thallium	1.0727	1.1070	100.0	93.24	ug/L	-7	10	
Vanadium	6.2547	5.5520	100.0	91.70	ug/L	-8	10	
Zinc	1.8980	0.9628	100.0	102.5	ug/L	3	10	

ISTD (ICALBLK d0510003)	ICALBLK Abund	Abund	%Drift
Lithium	484978	459927	-5.17
Scandium	154632	150446	-2.71
Germanium	35997	34993	-2.79
Indium	242377	236235	-2.53
Bismuth	351202	349290	-0.54

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56137459027 File : d0510027
Cal : 56137459001 Caldate: 05-APR-2006
Standards: S2897, 05WS0207

IDF : 1.0
Time : 05-APR-2006 13:28

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	3.1281	1.1289	150.0	115.3	ug/L	**-23**	10	c- ***
Antimony	0.4148	0.4165	150.0	155.5	ug/L	4	10	
Arsenic	0.8566	0.7064	150.0	140.5	ug/L	-6	10	
Barium	0.1601	0.1591	150.0	161.7	ug/L	8	10	
Beryllium	0.2542	0.2222	150.0	140.0	ug/L	-7	10	
Cadmium	0.9631	0.9986	150.0	178.7	ug/L	**19**	10	c+ ***
Calcium	0.0368	0.0323	15000	15440	ug/L	3	10	
Chromium	7.2071	5.1988	150.0	145.3	ug/L	-3	10	
Cobalt	6.8729	6.3368	150.0	141.0	ug/L	-6	10	
Copper	1.9669	1.6582	150.0	146.1	ug/L	-3	10	
Iron	0.1647	0.1585	15000	15490	ug/L	3	10	
Lead	1.6347	1.6299	150.0	154.3	ug/L	3	10	
Magnesium	0.1969	0.1529	15000	12200	ug/L	**-19**	10	c- ***
Manganese	7.9977	7.0844	150.0	149.7	ug/L	0	10	
Molybdenum	1.5903	1.6605	150.0	163.3	ug/L	9	10	
Nickel	1.8973	1.3691	150.0	142.2	ug/L	-5	10	
Potassium	1.3750	0.9660	15000	14420	ug/L	-4	10	
Selenium	0.1126	0.0606	150.0	139.6	ug/L	-7	10	
Silver	4.4375	4.9360	150.0	180.2	ug/L	**20**	10	c+ ***
Sodium	3.0658	1.6452	15000	12270	ug/L	**-18**	10	c- ***
Thallium	1.0727	1.2240	150.0	154.7	ug/L	3	10	
Vanadium	6.2547	5.6126	150.0	139.1	ug/L	-7	10	
Zinc	1.8980	0.9096	150.0	145.5	ug/L	-3	10	

ISTD (ICALBLK d0510003)	ICALBLK Abund	Abund	%Drift
Lithium	484978	315479	-34.95
Scandium	154632	116374	-24.74
Germanium	35997	26780	-25.61
Indium	242377	218610	-9.81
Bismuth	351202	347603	-1.02

+=high bias -=low bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56137459012
Cal : 56137459001

File : d0510012
Caldate: 05-APR-2006

IDF : 1.0
Time : 05-APR-2006 12:01

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.04281]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01254]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.3724]	0.5000	0.1891	ug/L	!ib
Silver	[0.04527]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.3290]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK d0510003)	ICALBLK Abund	Abund	%Drift
Lithium	484978	455922	-5.99
Scandium	154632	146260	-5.41
Germanium	35997	34431	-4.35
Indium	242377	237538	-2.00
Bismuth	351202	352258	0.30

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56137459029 File : d0510029
Cal : 56137459001 Caldate: 05-APR-2006

IDF : 1.0
Time : 05-APR-2006 13:39

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.005786]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	0.5282	0.5000	0.1891	ug/L	ib ***
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1985]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK d0510003)	ICALBLK Abund	Abund	%Drift
Lithium	484978	304859	-37.14
Scandium	154632	107266	-30.63
Germanium	35997	24452	-32.07
Indium	242377	207853	-14.24
Bismuth	351202	345916	-1.51

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05
Seqnum : 56137459013 File : d0510013
Cal : 56137459001 Caldate: 05-APR-2006
Standards: S2893, 05WS0207

IDF : 1.0
Time : 05-APR-2006 12:06

Analyte	Quant	RL	Units	Flags
Antimony	2.116	0.2500	ug/L	
Arsenic	[0.3678]	0.5000	ug/L	
Barium	0.9233	0.2500	ug/L	
Beryllium	[0.01184]	0.2500	ug/L	
Cadmium	[0.1185]	0.2500	ug/L	
Chromium	1.068	0.5000	ug/L	
Cobalt	2.503	0.2500	ug/L	
Copper	0.9201	0.5000	ug/L	
Lead	1.226	0.2500	ug/L	
Manganese	0.8959	0.2500	ug/L	
Nickel	0.9257	0.2500	ug/L	
Selenium	[0.3017]	0.5000	ug/L	
Silver	[0.2386]	0.2500	ug/L	
Thallium	[0.2661]	0.5000	ug/L	
Vanadium	[0.1606]	1.000	ug/L	
Zinc	1.532	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	82540	ug/L	83
Calcium	300000	295200	ug/L	98
Iron	250000	226300	ug/L	91
Magnesium	100000	84480	ug/L	84
Molybdenum	2000	2175	ug/L	109
Potassium	100000	93800	ug/L	94
Sodium	250000	212100	ug/L	85

ISTD (ICALBLK d0510003)	ICALBLK Abund	Abund	%Drift
Lithium	484978	328194	-32.33
Scandium	154632	121178	-21.63
Germanium	35997	29342	-18.49
Indium	242377	200254	-17.38
Bismuth	351202	277004	-21.13

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05
Seqnum : 56137459015 File : d0510015
Cal : 56137459001 Caldate: 05-APR-2006
Standards: S2894, 05WS0207

IDF : 1.0
Time : 05-APR-2006 12:21

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	75470	ug/L	-25		
Arsenic	100.0	101.9	ug/L	2	20	
Cadmium	100.0	114.9	ug/L	15	20	
Calcium	300000	304600	ug/L	2		
Chromium	200.0	212.1	ug/L	6	20	
Cobalt	200.0	200.4	ug/L	0	20	
Copper	200.0	192.4	ug/L	-4	20	
Iron	250000	233300	ug/L	-7		
Magnesium	100000	77410	ug/L	-23		
Manganese	200.0	228.6	ug/L	14	20	
Molybdenum	2000	2390	ug/L	20		
Nickel	200.0	195.7	ug/L	-2	20	
Potassium	100000	93870	ug/L	-6		
Selenium	100.0	92.89	ug/L	-7	20	
Silver	50.00	57.49	ug/L	15	20	
Sodium	250000	193800	ug/L	-22		
Vanadium	200.0	213.5	ug/L	7	20	
Zinc	100.0	92.74	ug/L	-7	20	

ISTD (ICALBLK d0510003)	ICALBLK Abund	Abund	%Drift
Scandium	154632	101474	-34.38
Germanium	35997	24921	-30.77

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05
Seqnum : 56137459030 File : d0510030
Cal : 56137459001 Caldate: 05-APR-2006
Standards: S2893, 05WS0207

IDF : 1.0
Time : 05-APR-2006 13:45

Analyte	Quant	RL	Units	Flags
Antimony	2.155	0.2500	ug/L	
Arsenic	[0.09297]	0.5000	ug/L	
Barium	0.9442	0.2500	ug/L	
Beryllium	[0.02051]	0.2500	ug/L	
Cadmium	[0.09836]	0.2500	ug/L	
Chromium	1.044	0.5000	ug/L	
Cobalt	2.476	0.2500	ug/L	
Copper	0.8623	0.5000	ug/L	
Lead	1.259	0.2500	ug/L	
Manganese	0.9693	0.2500	ug/L	
Nickel	0.9474	0.2500	ug/L	
Selenium	[0]	0.5000	ug/L	
Silver	[0.1456]	0.2500	ug/L	
Thallium	[0.1618]	0.5000	ug/L	
Vanadium	[0.1607]	1.000	ug/L	
Zinc	1.437	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	73510	ug/L	74
Calcium	300000	299100	ug/L	100
Iron	250000	236000	ug/L	94
Magnesium	100000	76570	ug/L	77
Molybdenum	2000	2341	ug/L	117
Potassium	100000	92580	ug/L	93
Sodium	250000	189900	ug/L	76

ISTD (ICALBLK d0510003)	ICALBLK Abund	Abund	%Drift
Lithium	484978	273133	-43.68
Scandium	154632	106174	-31.34
Germanium	35997	24544	-31.82
Indium	242377	192209	-20.70
Bismuth	351202	273946	-22.00

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05
Seqnum : 56137459031 File : d0510031
Cal : 56137459001 Caldate: 05-APR-2006
Standards: S2894, 05WS0207

IDF : 1.0
Time : 05-APR-2006 13:51

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	74070	ug/L	-26		
Arsenic	100.0	97.72	ug/L	-2	20	
Cadmium	100.0	114.1	ug/L	14	20	
Calcium	300000	301800	ug/L	1		
Chromium	200.0	215.4	ug/L	8	20	
Cobalt	200.0	201.7	ug/L	1	20	
Copper	200.0	190.6	ug/L	-5	20	
Iron	250000	235800	ug/L	-6		
Magnesium	100000	75860	ug/L	-24		
Manganese	200.0	233.6	ug/L	17	20	
Molybdenum	2000	2371	ug/L	19		
Nickel	200.0	193.0	ug/L	-4	20	
Potassium	100000	93340	ug/L	-7		
Selenium	100.0	88.09	ug/L	-12	20	
Silver	50.00	57.60	ug/L	15	20	
Sodium	250000	190300	ug/L	-24		
Vanadium	200.0	216.7	ug/L	8	20	
Zinc	100.0	89.52	ug/L	-10	20	

ISTD (ICALBLK d0510003)	ICALBLK Abund	Abund	%Drift
Scandium	154632	106473	-31.14
Germanium	35997	24855	-30.95

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185622 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	ALB	SBS	ABA	BBE	CDA	CCR	COU	FEB	PBG	MNI	NIK	SEG	ANA	TL	V	ZN
185622-018	MET05	04/02/06 06:48	1.0																
185622-018	MET09	04/03/06 20:39	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+			+
185622-018	MET05	04/05/06 03:48	1.0		+			+			+					+		+	
185622-018	MET05	04/05/06 13:17	1.0														+		
QC333522	MET05	04/02/06 03:49	1.0																
QC333522	MET09	04/03/06 17:44	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+			+
QC333522	MET05	04/05/06 00:27	1.0		+			+			+					+	+	+	
QC333523	MET05	04/02/06 03:55	1.0																
QC333523	MET09	04/03/06 17:48	1.0																
QC333523	MET09	04/03/06 17:51	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+			+
QC333523	MET05	04/05/06 00:32	1.0		+			+			+					+	+	+	
QC333524	MET05	04/02/06 04:00	1.0																
QC333524	MET09	04/03/06 18:01	1.0		+	+	+	+	+	+	+	+		+	+	+			+
QC333524	MET09	04/03/06 18:19	1.0	+									+						
QC333524	MET05	04/05/06 00:38	1.0		+			+			+					+	+	+	
QC333525	MET05	04/02/06 04:17	1.0																
QC333525	MET09	04/03/06 18:43	1.0																
QC333525	MET09	04/03/06 19:21	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+			+
QC333525	MET05	04/05/06 00:55	1.0		+			+			+					+	+	+	
QC333526	MET05	04/02/06 04:23	1.0																
QC333526	MET09	04/03/06 18:46	1.0																
QC333526	MET09	04/03/06 19:24	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+			+
QC333526	MET05	04/05/06 01:00	1.0		+			+			+					+	+	+	
QC333527	MET05	04/02/06 04:11	5.0																
QC333527	MET09	04/03/06 18:27	5.0	+	+	+	+		+	+	+	+	+	+	+	+			+
QC333527	MET09	04/03/06 18:39	25.0					+											
QC333527	MET05	04/05/06 00:49	5.0		+			+			+					+	+	+	
QC333528	MET05	04/02/06 04:28	1.0	+	+	+	+	+				+			+	+	+		+
QC333528	MET09	04/03/06 18:49	1.0				+		+	+	+		+	+			+	+	
QC333528	MET09	04/03/06 19:18	1.0																
QC333528	MET05	04/05/06 01:28	1.0							+									

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185622 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	HARD	ALB	ASA	BAE	BED	CCA	CCR	CCO	CCU	FEB	PBG	MGN	MHG	MOI	NK	SE	AGA	NAL	TV	ZN
185622-001	MET05	04/02/06 00:17	1.0																				
185622-001	MET08	04/03/06 17:07	1.0		+	+	+	+	+	+	+		+	+	+	+	+	+	+				+
185622-001	MET05	04/04/06 06:18	1.0																				
185622-001	MET05	04/04/06 16:56	1.0			+			+			+								+		+	+
185622-001	MET08	04/04/06 18:20	5.0																		+		
185622-002	MET05	04/02/06 01:07	1.0																				
185622-002	MET08	04/03/06 17:51	1.0		+					+			+										
185622-002	MET08	04/03/06 18:12	5.0																				
185622-002	MET05	04/04/06 07:09	1.0																				
185622-002	MET05	04/04/06 18:03	1.0																				
185622-003	MET04	03/21/06 13:42	1.0													+							
185622-003	MET05	04/02/06 01:13	1.0																				
185622-003	MET08	04/03/06 17:55	1.0		+	+	+	+	+	+	+		+	+	+	+	+	+	+		+		+
185622-003	MET05	04/04/06 07:14	1.0																				
185622-003	MET05	04/04/06 18:08	1.0			+			+			+								+		+	+
185622-004	MET04	03/21/06 13:49	1.0													+							
185622-004	MET05	04/02/06 01:18	1.0																				
185622-004	MET08	04/03/06 17:59	1.0		+	+	+	+	+	+	+		+	+	+	+	+	+	+		+		+
185622-004	MET05	04/04/06 07:20	1.0																				
185622-004	MET05	04/04/06 18:14	1.0			+			+			+								+		+	+
185622-005	MET04	03/21/06 13:50	1.0													+							
185622-005	MET05	04/02/06 01:24	1.0																				
185622-005	MET08	04/03/06 18:03	1.0		+	+	+	+	+	+	+		+	+	+	+	+	+	+		+		+
185622-005	MET05	04/04/06 07:26	1.0																				
185622-005	MET05	04/04/06 18:19	1.0			+			+			+								+		+	+
185622-006	MET04	03/20/06 16:17	1.0													+							
185622-006	MET05	04/02/06 01:30	1.0																				
185622-006	MET08	04/03/06 18:08	1.0		+	+	+	+	+	+	+		+	+	+	+	+	+	+		+		+
185622-006	MET05	04/04/06 07:31	1.0																				
185622-006	MET05	04/04/06 18:25	1.0			+			+			+								+		+	+
185622-007	MET04	03/20/06 16:19	1.0													+							
185622-007	MET05	04/02/06 01:35	1.0																				
185622-007	MET08	04/03/06 18:31	1.0		+	+	+	+	+	+	+		+	+	+	+	+	+	+		+		+
185622-007	MET05	04/04/06 07:37	1.0																				
185622-007	MET05	04/04/06 18:31	1.0			+			+			+								+		+	+
185622-008	MET05	04/02/06 01:41	1.0																				
185622-008	MET08	04/03/06 18:35	1.0		+	+	+	+	+	+	+		+	+	+	+	+	+	+		+		+
185622-008	MET05	04/04/06 07:43	1.0																				
185622-008	MET05	04/04/06 19:52	1.0			+			+			+								+		+	+

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185622 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	HARD	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	MO	NI	K	SE	AG	NA	TL	V	ZN
185622-009	MET05	04/02/06 01:46	1.0																									
185622-009	MET08	04/03/06 18:40	1.0		+		+				+	+			+	+	+	+			+	+			+			+
185622-009	MET05	04/04/06 07:48	1.0																									
185622-009	MET05	04/04/06 19:57	1.0							+				+														
185622-010	MET05	04/02/06 02:14	1.0																									
185622-010	MET08	04/03/06 18:44	1.0		+		+				+	+			+	+	+	+			+	+			+			+
185622-010	MET05	04/04/06 08:16	1.0																									
185622-010	MET05	04/04/06 20:03	1.0							+				+														
185622-011	MET05	04/02/06 02:20	1.0																									
185622-011	MET08	04/03/06 18:47	1.0		+		+				+	+			+	+	+	+			+	+			+			+
185622-011	MET05	04/04/06 08:22	1.0																									
185622-011	MET05	04/04/06 20:08	1.0							+				+														
185622-012	MET05	04/02/06 02:25	1.0																									
185622-012	MET08	04/03/06 18:50	1.0		+		+				+	+			+	+	+	+			+	+			+			+
185622-012	MET05	04/04/06 08:28	1.0																									
185622-012	MET05	04/04/06 20:14	1.0							+				+														
185622-013	MET05	04/02/06 02:31	1.0																									
185622-013	MET08	04/03/06 18:54	1.0		+		+	+	+		+	+	+		+	+	+	+			+	+	+		+			+
185622-013	MET05	04/04/06 08:33	1.0																									
185622-013	MET05	04/04/06 20:20	1.0			+				+				+										+		+	+	
185622-014	MET05	04/02/06 02:37	1.0																									
185622-014	MET08	04/03/06 19:05	1.0		+		+	+	+		+	+	+		+	+	+	+			+	+	+					+
185622-014	MET08	04/03/06 19:44	2.0																						+			
185622-014	MET05	04/04/06 08:39	1.0																									
185622-014	MET05	04/04/06 20:25	1.0			+				+				+										+		+	+	
185622-015	MET05	04/02/06 02:42	1.0																									
185622-015	MET08	04/03/06 19:24	1.0		+		+				+	+			+	+	+	+			+	+						+
185622-015	MET08	04/03/06 19:40	5.0																						+			
185622-015	MET05	04/04/06 08:45	1.0																									
185622-015	MET05	04/04/06 21:36	1.0							+				+														
185622-016	MET05	04/02/06 02:48	1.0																									
185622-016	MET08	04/03/06 19:28	1.0		+		+				+	+			+	+	+	+			+	+			+			+
185622-016	MET05	04/04/06 08:50	1.0																									
185622-016	MET05	04/04/06 21:41	1.0			+				+				+													+	
185622-017	MET05	04/02/06 02:53	1.0																									
185622-017	MET08	04/03/06 19:31	1.0		+		+	+	+		+	+	+		+	+	+	+			+	+	+		+			+
185622-017	MET05	04/04/06 08:56	1.0																									

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185622 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	HARD	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	MO	NI	K	SE	AG	NA	TL	V	ZN
185622-017	MET05	04/04/06 21:47	1.0			+				+				+										+		+	+	
185622-018	MET05	04/02/06 02:59	1.0																									
185622-018	MET08	04/03/06 19:35	1.0		+		+	+	+		+	+	+		+	+	+	+			+	+	+		+			+
185622-018	MET05	04/04/06 09:01	1.0																									
185622-018	MET05	04/04/06 21:30	1.0			+				+				+										+		+	+	
185622-020	MET04	03/20/06 16:21	1.0																+									
185622-020	MET05	04/02/06 04:06	1.0																									
185622-020	MET09	04/03/06 18:23	1.0		+		+	+	+			+	+		+	+	+	+			+	+	+		+			+
185622-020	MET09	04/03/06 18:35	5.0								+																	
185622-020	MET05	04/05/06 00:44	1.0			+				+				+						+				+		+	+	
185622-021	MET04	03/20/06 16:27	1.0																+									
185622-021	MET05	04/02/06 04:56	1.0																									
185622-021	MET09	04/03/06 18:52	1.0		+		+	+	+			+	+		+	+		+			+	+	+					+
185622-021	MET09	04/03/06 19:14	5.0								+						+								+			
185622-021	MET05	04/05/06 01:34	1.0			+				+				+						+				+		+	+	
185622-022	MET04	03/20/06 16:29	1.0																+									
185622-022	MET05	04/02/06 05:02	1.0																									
185622-022	MET09	04/03/06 19:10	1.0		+		+	+	+		+	+	+		+	+	+	+			+	+	+		+			+
185622-022	MET05	04/05/06 01:39	1.0			+				+				+						+				+		+	+	
185622-023	MET05	04/02/06 05:07	1.0																									
185622-023	MET09	04/03/06 19:27	1.0		+		+	+	+		+	+	+		+	+	+	+			+	+	+		+			+
185622-023	MET05	04/05/06 01:45	1.0			+				+				+										+		+	+	
185622-024	MET04	03/20/06 16:31	1.0																+									
185622-024	MET05	04/02/06 05:13	1.0																									
185622-024	MET09	04/03/06 19:31	1.0		+		+	+	+			+	+		+	+		+			+	+	+					+
185622-024	MET09	04/03/06 20:57	5.0								+						+								+			
185622-024	MET05	04/05/06 01:51	1.0			+				+				+										+		+	+	
185622-025	MET04	03/20/06 16:33	1.0																+									
185622-025	MET05	04/02/06 05:18	1.0																									
185622-025	MET09	04/03/06 19:35	1.0		+		+	+	+		+	+	+		+	+		+			+	+	+					+
185622-025	MET09	04/03/06 21:01	5.0														+								+			
185622-025	MET05	04/05/06 01:56	1.0			+				+				+										+		+	+	
185622-026	MET04	03/20/06 16:35	1.0																+									
185622-026	MET05	04/02/06 05:24	1.0																									
185622-026	MET09	04/03/06 19:40	1.0		+		+	+	+			+	+		+	+					+	+	+					+
185622-026	MET09	04/03/06 21:05	5.0								+						+	+							+			
185622-026	MET05	04/05/06 02:02	1.0			+				+				+										+		+	+	

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185622 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	HARD	ALB	SB	ASA	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	MO	NI	K	SE	AG	NA	TL	V	ZN
185622-027	MET04	03/20/06 16:36	1.0																+									
185622-027	MET05	04/02/06 05:30	1.0																									
185622-027	MET09	04/03/06 19:43	1.0		+		+	+	+		+	+	+		+	+	+	+			+	+	+		+			+
185622-027	MET05	04/05/06 02:07	1.0			+				+				+										+		+	+	
185622-028	MET04	03/20/06 16:38	1.0																+									
185622-028	MET05	04/02/06 05:35	1.0																									
185622-028	MET09	04/03/06 20:04	1.0		+		+	+	+		+	+	+		+	+	+	+			+	+	+		+			+
185622-028	MET05	04/05/06 02:13	1.0			+				+				+										+		+	+	
185622-029	MET04	03/20/06 16:40	1.0																+									
185622-029	MET05	04/02/06 05:41	1.0																									
185622-029	MET09	04/03/06 20:08	1.0		+		+	+	+		+	+	+		+	+	+	+			+	+	+					+
185622-029	MET09	04/03/06 21:08	5.0																						+			
185622-029	MET05	04/05/06 02:19	1.0			+				+				+										+		+	+	
185622-030	MET04	03/20/06 16:42	1.0																+									
185622-030	MET05	04/02/06 06:09	1.0																									
185622-030	MET09	04/03/06 20:12	1.0		+		+	+	+		+	+	+		+	+	+	+			+	+	+		+			+
185622-030	MET05	04/05/06 03:09	1.0																									
185622-030	MET05	04/05/06 12:32	1.0			+				+				+										+		+	+	
185622-031	MET04	03/20/06 16:44	1.0																+									
185622-031	MET05	04/02/06 06:14	1.0																									
185622-031	MET09	04/03/06 20:16	1.0		+		+	+	+		+	+	+		+	+	+	+			+	+	+		+			+
185622-031	MET05	04/05/06 03:15	1.0																									
185622-031	MET05	04/05/06 12:37	1.0			+				+				+										+		+	+	
185622-033	MET04	03/20/06 16:50	1.0																+									
185622-033	MET05	04/02/06 06:20	1.0																									
185622-033	MET09	04/03/06 20:20	1.0		+		+	+	+		+	+	+		+	+	+	+			+	+	+					+
185622-033	MET09	04/03/06 21:12	5.0																						+			
185622-033	MET05	04/05/06 03:20	1.0																									
185622-033	MET05	04/05/06 12:43	1.0			+				+				+										+		+	+	
185622-034	MET04	03/20/06 16:52	1.0																+									
185622-034	MET05	04/02/06 06:26	1.0																									
185622-034	MET09	04/03/06 20:23	1.0		+		+	+	+		+	+	+		+	+	+	+			+	+	+					+
185622-034	MET09	04/03/06 21:16	5.0																						+			
185622-034	MET05	04/05/06 03:26	1.0																									
185622-034	MET05	04/05/06 12:49	1.0			+				+				+										+		+	+	
185622-035	MET04	03/20/06 16:54	1.0																+									
185622-035	MET05	04/02/06 06:31	1.0																									
185622-035	MET09	04/03/06 20:27	1.0		+		+	+	+		+	+	+		+	+	+	+			+	+	+		+			+
185622-035	MET05	04/05/06 03:32	1.0																									

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185622 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	HARD	ALB	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	MO	NI	K	SE	AG	NA	TL	V	ZN
185622-035	MET05	04/05/06 12:54	1.0			+				+				+										+		+	+	
185622-036	MET04	03/20/06 16:56	1.0																+									
185622-036	MET05	04/02/06 06:37	1.0																									
185622-036	MET09	04/03/06 20:31	1.0		+		+	+	+		+	+	+		+	+	+	+			+	+	+		+			+
185622-036	MET05	04/05/06 03:37	1.0																									
185622-036	MET05	04/05/06 13:00	1.0			+				+				+										+		+	+	
185622-037	MET04	03/20/06 16:59	1.0																+									
185622-037	MET05	04/02/06 06:43	1.0																									
185622-037	MET09	04/03/06 20:35	1.0		+		+	+	+		+	+	+		+	+	+	+			+	+	+		+			+
185622-037	MET05	04/05/06 03:43	1.0																									
185622-037	MET05	04/05/06 13:06	1.0			+				+				+										+		+	+	
QC332184	MET04	03/20/06 16:01	1.0																+									
QC332185	MET04	03/20/06 16:04	1.0																+									
QC332186	MET04	03/20/06 16:06	1.0																+									
QC332187	MET04	03/20/06 16:10	1.0																+									
QC332188	MET04	03/20/06 16:13	1.0																+									
QC332307	MET04	03/21/06 13:36	1.0																+									
QC332308	MET04	03/21/06 13:38	1.0																+									
QC332309	MET04	03/21/06 13:40	1.0																+									
QC332310	MET04	03/21/06 13:44	1.0																+									
QC332311	MET04	03/21/06 13:47	1.0																+									
QC333515	MET05	04/02/06 00:00	1.0																									
QC333515	MET08	04/03/06 16:29	1.0		+		+	+	+		+	+	+		+	+	+	+			+	+	+		+			+
QC333515	MET05	04/04/06 06:02	1.0																									
QC333515	MET05	04/04/06 16:33	1.0			+				+				+						+				+		+	+	
QC333516	MET05	04/02/06 00:06	1.0																									
QC333516	MET08	04/03/06 16:37	1.0		+		+	+	+		+	+	+		+	+	+	+			+	+	+		+			+
QC333516	MET05	04/04/06 06:07	1.0																									
QC333516	MET05	04/04/06 16:44	1.0			+				+				+						+				+		+	+	
QC333517	MET05	04/02/06 00:11	1.0																									
QC333517	MET08	04/03/06 16:59	1.0																									

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185622 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	HARD	ALB	SBS	ABA	BBE	CDA	CCR	CCO	CCU	FEB	PBG	MGN	MHG	MMO	NIK	SE	AGA	NAL	TV	ZN
QC333517	MET08	04/03/06 17:02	1.0		+		+	+	+		+	+	+		+	+	+	+			+	+	+		+			+
QC333517	MET05	04/04/06 06:13	1.0																									
QC333517	MET05	04/04/06 16:49	1.0			+				+				+						+					+		+	+	
QC333518	MET05	04/02/06 00:28	1.0																										
QC333518	MET08	04/03/06 17:41	1.0		+		+	+	+		+	+	+		+	+	+	+			+	+	+		+			+
QC333518	MET08	04/03/06 18:58	1.0																									
QC333518	MET05	04/04/06 06:30	1.0																									
QC333518	MET05	04/04/06 17:07	1.0			+				+				+						+					+		+	+	
QC333519	MET05	04/02/06 00:34	1.0																										
QC333519	MET08	04/03/06 17:44	1.0		+		+	+	+		+	+	+		+	+	+	+			+	+	+		+			+
QC333519	MET08	04/03/06 19:02	1.0																									
QC333519	MET05	04/04/06 06:35	1.0																									
QC333519	MET05	04/04/06 17:12	1.0			+				+				+						+					+		+	+	
QC333520	MET05	04/02/06 00:22	5.0																										
QC333520	MET08	04/03/06 17:12	5.0		+		+	+	+		+	+	+		+	+	+	+			+	+	+					+
QC333520	MET05	04/04/06 06:24	5.0																									
QC333520	MET05	04/04/06 17:01	5.0			+				+				+						+					+		+	+	
QC333520	MET08	04/04/06 18:24	25.0																			+						
QC333521	MET05	04/02/06 01:01	1.0			+	+	+		+						+							+	+			+		+
QC333521	MET08	04/03/06 17:48	1.0		+				+		+	+	+		+		+	+			+	+						+	
QC333521	MET05	04/04/06 07:03	1.0											+															
QC333521	MET05	04/04/06 17:18	1.0																										
QC333522	MET05	04/02/06 03:49	1.0																										
QC333522	MET09	04/03/06 17:44	1.0		+		+	+	+		+	+	+		+	+	+	+			+	+	+		+			+
QC333522	MET05	04/05/06 00:27	1.0			+				+				+						+					+		+	+	
QC333523	MET05	04/02/06 03:55	1.0																										
QC333523	MET09	04/03/06 17:48	1.0																										
QC333523	MET09	04/03/06 17:51	1.0		+		+	+	+		+	+	+		+	+	+	+			+	+	+		+			+
QC333523	MET05	04/05/06 00:32	1.0			+				+				+						+					+		+	+	
QC333524	MET05	04/02/06 04:00	1.0																										
QC333524	MET09	04/03/06 18:01	1.0				+	+	+		+	+	+		+	+	+				+	+	+		+			+
QC333524	MET09	04/03/06 18:19	1.0		+													+										
QC333524	MET05	04/05/06 00:38	1.0			+				+				+						+					+		+	+	
QC333525	MET05	04/02/06 04:17	1.0																										
QC333525	MET09	04/03/06 18:43	1.0																										
QC333525	MET09	04/03/06 19:21	1.0		+		+	+	+		+	+	+		+	+	+	+			+	+	+		+			+
QC333525	MET05	04/05/06 00:55	1.0			+				+				+						+					+		+	+	

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185622 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	HARD	ALB	SB	ASA	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	MO	NI	K	SE	AG	NA	TL	V	ZN
QC333526	MET05	04/02/06 04:23	1.0																									
QC333526	MET09	04/03/06 18:46	1.0																									
QC333526	MET09	04/03/06 19:24	1.0		+		+	+	+		+	+	+		+	+	+	+			+	+	+		+			+
QC333526	MET05	04/05/06 01:00	1.0			+				+				+						+				+		+	+	
QC333527	MET05	04/02/06 04:11	5.0																									
QC333527	MET09	04/03/06 18:27	5.0		+		+	+	+			+	+		+	+	+	+			+	+	+		+			+
QC333527	MET09	04/03/06 18:39	25.0								+																	
QC333527	MET05	04/05/06 00:49	5.0			+				+				+						+				+		+	+	
QC333528	MET05	04/02/06 04:28	1.0		+	+	+	+		+						+				+			+	+		+		+
QC333528	MET09	04/03/06 18:49	1.0						+			+	+		+		+	+			+	+			+		+	
QC333528	MET09	04/03/06 19:18	1.0																									
QC333528	MET05	04/05/06 01:28	1.0											+														

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56137459 Instrument: MET05 Agilent ICP-MS Begun: 05-APR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	d0510001	TUN				05-APR-2006 10:59	1.0	1.0			1	
003	d0510003	ICALBLK	std-blk			05-APR-2006 11:11	1.0	1.0			2	
004	d0510004	ICAL	CS1			05-APR-2006 11:16	1.0	1.0			3	
005	d0510005	ICAL	CS2			05-APR-2006 11:22	1.0	1.0			4	
006	d0510006	ICAL	CS3			05-APR-2006 11:27	1.0	1.0			5	
007	d0510007	ICAL	CS4			05-APR-2006 11:33	1.0	1.0			6	
008	d0510008	ICAL	CS5			05-APR-2006 11:39	1.0	1.0			7	
009	d0510009	ICAL	CS6			05-APR-2006 11:44	1.0	1.0			8	
010	d0510010	ICV				05-APR-2006 11:50	1.0	1.0		1	9	
012	d0510012	ICB				05-APR-2006 12:01	1.0	1.0		1	2	
013	d0510013	ICSA				05-APR-2006 12:06	1.0	1.0		1	10 2	7:CA=295200
015	d0510015	ICSAB				05-APR-2006 12:21	1.0	1.0		1	11 2	11:CA=304600
017	d0510017	SAMPLE	185622-030	111808	Filtra	05-APR-2006 12:32	1.0	1.0	4	1	2	3:MG=46190.0
018	d0510018	SAMPLE	185622-031	111808	Filtra	05-APR-2006 12:37	1.0	1.0	4	1	2	3:NA=56430.0
019	d0510019	SAMPLE	185622-033	111808	Filtra	05-APR-2006 12:43	1.0	1.0	5	1	2	4:NA=114200
020	d0510020	SAMPLE	185622-034	111808	Filtra	05-APR-2006 12:49	1.0	1.0	4	1	2	2:NA=108400
021	d0510021	SAMPLE	185622-035	111808	Filtra	05-APR-2006 12:54	1.0	1.0	3	1	2	
022	d0510022	SAMPLE	185622-036	111808	Filtra	05-APR-2006 13:00	1.0	1.0	4	1	2	3:MG=33160.0
023	d0510023	SAMPLE	185622-037	111808	Filtra	05-APR-2006 13:06	1.0	1.0	4	1	2	3:NA=49290.0
025	d0510025	SAMPLE	185622-018	111808	Water	05-APR-2006 13:17	1.0	1.0	3	1	2	2:MG=67660.0
027	d0510027	CCV				05-APR-2006 13:28	1.0	1.0	5	1	12 2	
029	d0510029	CCB				05-APR-2006 13:39	1.0	1.0	1	1	2	
030	d0510030	ICSA				05-APR-2006 13:45	1.0	1.0		1	10 2	7:CA=299100
031	d0510031	ICSAB				05-APR-2006 13:51	1.0				11 2	

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897

Analyst: Mewu Date: 4/5/6

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 04-APR-2006
Sequence: 56136078 (d0411)
Instrument ID: MET05

ICALBLK Filename: d0411003
Date Analyzed: 04-APR-2006
Time Analyzed: 12:10

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD	362929	131427	30176	208225	301976	357633
LOWER LIMIT	108879	39428	9053	62467	90593	107290
UPPER LIMIT	435515	157712	36211	249870	362371	429160

TYPE	SAMPLE	#						
ICB		012	360378	122784	28244	194314	281539	333457
ICSA		013	274421	107446	25651	170256	216774	306707
SAMPLE	185668-007	016	306283	110831	25045	181190	263904	324698
SAMPLE	185668-008	017	307557	110370	25099	180049	252064	321987
SAMPLE	185668-007	018	330701	110367	24606	173231	243142	307703
SAMPLE	185668-007	019	327457	111783	25618	178811	256438	315703
SAMPLE	185668-008	020	320129	108388	24574	166734	232819	300134
SAMPLE	185668-009	021	338050	113494	25432	172420	238833	312480
SAMPLE	185668-010	022	336054	113141	25668	171806	233561	314258
CCV		024	352764	122689	28496	191253	272839	344718
CCB		026	346085	117513	27051	188715	279916	330331
BLANK	QC334199	028	342256	117254	26963	190216	280952	332171
BS	QC334200	029	308672	107919	24540	158076	227649	289399
BSD	QC334201	030	321992	105780	23738	152524	212257	280161
MSS	185952-001	032	277429	101296	21458	147395	191241	273292
MS	QC334202	033	274758	102153	21775	146047	194083	280089
MSD	QC334203	034	282938	104122	21986	148522	201041	291122
SAMPLE	185952-002	036	283139	106911	22954	161105	218910	303147
SAMPLE	185952-001	038	237541	131040	30147	196175	223537	320851
SAMPLE	185952-002	039	210888	90164	20594	148646	198220	283103
CCV		041	357601	118076	25986	178472	250819	325333
CCB		043	349460	111780	25070	174043	255032	306609
BLANK	QC333515	044	345283	112428	25260	177058	265719	313004
BS	QC333516	046	339831	107939	24835	164253	246229	308944
BSD	QC333517	047	337277	112756	25932	182910	272758	335787
MSS	185622-001	048	286614	103152	21981	154390	215666	294879
SER	QC333520	049	305120	106808	24519	177733	261843	331302
MS	QC333518	050	270702	99630	21261	147123	207922	287786

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 04-APR-2006
Sequence: 56136078 (d0411)
Instrument ID: MET05

ICALBLK Filename: d0411003
Date Analyzed: 04-APR-2006
Time Analyzed: 12:10

TYPE	SAMPLE	#						
MSD	QC333519	051	281693	104558	21972	150240	209093	294113
PDS	QC333521	052	302054	108972	22408	153469	219311	304131
CCV		054	356217	117358	26847	183317	273583	337269
CCB		056	352539	112788	25524	184528	278753	331217
ICSA		057	247250	87192	20907	143688	199254	267791
SAMPLE	185622-002	060	288307	103329	21085	151947	217183	289994
SAMPLE	185622-003	061	291333	99391	20923	157092	231526	296156
SAMPLE	185622-004	062	260559	93694	19682	149584	223500	288004
SAMPLE	185622-005	063	273419	93340	20430	159553	241854	299096
SAMPLE	185622-006	064	268623	89039	19738	155444	237088	289261
SAMPLE	185622-007	065	280271	89760	20452	158125	244673	290578
CCV		072	320901	119819	27963	195565	279911	354937
CCB		074	319904	112790	25930	190032	279218	335339
SAMPLE	185622-008	075	288602	106631	22904	162233	222338	302172
SAMPLE	185622-009	076	285820	105853	22590	163793	231860	305607
SAMPLE	185622-010	077	276141	105864	22674	166772	235882	313464
SAMPLE	185622-011	078	285618	109876	23786	171929	237288	321732
SAMPLE	185622-012	079	290420	109443	23260	173092	238069	326193
SAMPLE	185622-013	080	281441	108819	23471	177029	242786	329872
SAMPLE	185622-014	081	268382	102547	21948	163353	218992	311306
CCV		086	319038	108517	25606	184435	278306	344074
CCB		088	319718	103061	23923	181403	270333	328863
ICSA		089	249207	90974	22204	152571	201596	283408
SAMPLE	185622-018	092	289898	99466	21549	150871	215682	286243
SAMPLE	185622-015	093	287671	101373	21692	153917	210767	290871
SAMPLE	185622-016	094	286404	101004	21843	157951	227791	295590
SAMPLE	185622-017	095	295380	104950	22689	164123	236782	310953
CCV		097	340737	109847	25478	177898	272389	329970
CCB		099	337933	106508	24488	177914	263798	318272
ICSA		100	288944	109041	27569	172604	210497	294651

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 04-APR-2006
Sequence: 56136737 (d0422)
Instrument ID: MET05

ICALBLK Filename: d0422003
Date Analyzed: 04-APR-2006
Time Analyzed: 23:09

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD	591971	262316	62044	450084	474799	641839
LOWER LIMIT	177591	78695	18613	135025	142440	192552
UPPER LIMIT	710365	314779	74452	540101	569759	770207

TYPE	SAMPLE	#						
ICB		012	541927	241523	56237	418215	455893	597233
ICSA		013	459544	213061	56121	355500	378921	534220
BLANK	QC333522	017	518500	229134	54504	402534	447090	578381
BS	QC333523	018	479239	225496	50544	367298	407798	544994
BSD	QC333524	019	431064	182490	43178	306649	376088	485680
MSS	185622-020	020	347550	139052	32072	225962	301167	392891
SER	QC333527	021	425700	167306	41973	293680	396998	497343
MS	QC333525	022	383943	165728	36916	252893	316220	428481
MSD	QC333526	023	342449	134932	30499	209244	271571	377713
CCV		025	339167	114326	28516	196498	298957	354406
CCB		027	337503	106412	25727	185416	296650	331987
PDS	QC333528	028	297516	110882	25113	165439	228749	309622
SAMPLE	185622-021	029	486391	226012	49641	345464	378846	533919
SAMPLE	185622-022	030	527701	226303	50677	361085	404480	542078
SAMPLE	185622-023	031	511986	224643	50849	354311	399010	541281
SAMPLE	185622-024	032	529015	228221	50828	345272	377978	545032
SAMPLE	185622-025	033	450531	210067	44653	307250	356181	505668
SAMPLE	185622-026	034	446786	199171	43672	302005	345638	487950
SAMPLE	185622-027	035	446663	199543	46248	317843	377274	500604
SAMPLE	185622-028	036	456662	205517	46296	320996	388160	511957
SAMPLE	185622-029	037	459078	214002	46817	317462	369958	519423
CCV		039	454400	181564	46530	317930	411518	519433
CCB		041	432402	169226	42595	301395	409637	494116
SAMPLE	185622-030	046	267320	86120	18698	128805*	186012	243869
SAMPLE	185622-031	047	253547	84814	18430*	133315*	195371	254468
SAMPLE	185622-033	048	274042	87939	18695	133335*	188550	251534

* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 04-APR-2006
Sequence: 56136737 (d0422)
Instrument ID: MET05

ICALBLK Filename: d0422003
Date Analyzed: 04-APR-2006
Time Analyzed: 23:09

TYPE	SAMPLE	#						
SAMPLE	185622-034	049	294007	94904	19927	142270	199691	267118
SAMPLE	185622-035	050	404244	161873	39368	283229	362056	445520
SAMPLE	185622-036	051	430187	186686	42139	291829	349818	469384
SAMPLE	185622-037	052	268761	87919	18638	132165*	188074	252652
SAMPLE	185622-018	053	231389	76670*	16366*	119215*	170678	228043
CCV		055	282684	85971	19999	135649	199462	249724
CCB		057	290698	84926	19704	138487	207107	246048
ICSA		058	225542	71621*	17575*	110382*	142012*	201398

720

* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 05-APR-2006
Sequence: 56137459 (d0510)
Instrument ID: MET05

ICALBLK Filename: d0510003
Date Analyzed: 05-APR-2006
Time Analyzed: 11:11

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD	484978	154632	35997	242377	351202	413059
LOWER LIMIT	145494	46390	10799	72713	105361	123918
UPPER LIMIT	581974	185559	43197	290852	421443	495671

TYPE	SAMPLE	#					
ICB		012	455922	146260	34431	237538	352258	412286
ICSA		013	328194	121178	29342	200254	277004	375869
SAMPLE	185622-030	017	291439	109490	24080	184712	295706	368892
SAMPLE	185622-031	018	283341	109876	24642	196796	310356	397856
SAMPLE	185622-033	019	318100	118872	25746	201541	305891	399273
SAMPLE	185622-034	020	286927	107410	23839	197001	309874	392070
SAMPLE	185622-035	021	261846	88793	20560	178675	304780	346503
SAMPLE	185622-036	022	252866	88818	19812	167697	273479	339564
SAMPLE	185622-037	023	232760	89664	20170	174046	281580	357856
SAMPLE	185622-018	025	342708	124573	26212	209616	327767	415906
CCV		027	315479	116374	26780	218610	347603	429543
CCB		029	304859	107266	24452	207853	345916	399830
ICSA		030	273133	106174	24544	192209	273946	373971

Curtis & Tompkins Laboratories Sample Preparation Summary 29-MAR-2006 09:36

Batch Number : 111807
Date Extracted: 29-MAR-2006
Extracted by : Kevin Gaines
Prep Method : 200.8

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S2309
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185622-001			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					AL, CR, FE		
185622-002			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					AL, CR, FE		
185622-003			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185622-004			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185622-005			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185622-006			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185622-007			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185622-008			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185622-009			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185622-010			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185622-011			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185622-012			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185622-013			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185622-014			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185622-015			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185622-016			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
185622-017			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185622-018			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
QC333515	BLANK			Filtrate	50	mL	50	1.000000	1					ICAP		
QC333516	BS			Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC333517	BSD			Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC333518	MS	of 185622-001		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC333519	MSD	of 185622-001		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC333520	SER	of 185622-001		Filtrate	50	mL	50	1.000000	1					ICAP		
QC333521	PDS	of 185622-001		Filtrate	50	mL	50	1.000000	1					ICAP		

722

Prep Chemist: [signature] 3/29/06 Reviewed By: K Carlyon Date: 4/3/06

Relinquished By: [signature] 3/29/06 Received By: K Carlyon Date: 4/3/06

Water Digestion for ICP-MS Curtis & Tompkins, Ltd

LIMS Batch #: 111807
Date Digested: 3/29/04
Digested by: [illegible]

Digestion Method
☑ EPA 200.8 for ICP-MS
☐ _____

BK 2288
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Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BLK	50	50		
BSD				
BS				
MS-01D				FIRST FILTERED
MSD-01				
185622-01				
-02				
-03				
-04				
-05				
-06				
-07				
-08A				
-09T				
-10				
-11				
-12				
-13D				
-14				
-15T				
-16D				
-17A				
-18D				

	Reagent ID or LIMS #	Initials / Date
2 digestion temperature (90-95 degrees C)	95	[illegible] 3/29
2 mL of spike solution was added to all spikes	32309	
concentrated HCl	C02031 BARKER	
concentrated HNO3	B49053	
☐ filtered thru' Whatman # 541		

[illegible] 3/29/04
Extraction Chemist / Date

Continued from page ___
Continued on page 1

[illegible] 3/29/04
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Preparation Summary 29-MAR-2006 09:39

Batch Number : 111808
Date Extracted: 29-MAR-2006
Extracted by : Kevin Gaines
Prep Method : 200.8

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S2309
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185622-018			Treadwell & Rollo	Water	50	mL	50	1.000000	1					TAL/ICP		
185622-020			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HARDNESS, MO(more)		
185622-021			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HARDNESS, MO(more)		
185622-022			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HARDNESS, MO(more)		
185622-023			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185622-024			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185622-025			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185622-026			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185622-027			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185622-028			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185622-029			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185622-030			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185622-031			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185622-033			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185622-034			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185622-035			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185622-036			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
185622-037			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
QC333522	BLANK			Filtrate	50	mL	50	1.000000	1					ICAP		
QC333523	BS			Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC333524	BSD			Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC333525	MS	of 185622-020		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC333526	MSD	of 185622-020		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC333527	SER	of 185622-020		Filtrate	50	mL	50	1.000000	1					ICAP		
QC333528	PDS	of 185622-020		Filtrate	50	mL	50	1.000000	1					ICAP		

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Prep Chemist: [illegible] 3/29/06 Reviewed By: [illegible] Date: 4/3/06

Relinquished By: [illegible] 3/29/06 Received By: [illegible] Date: 4/3/06

Ltd.

Water Digestion for ICP-MS

Curtis & Tompkins, Ltd.

LIMS Batch #: 111808
Date Digested: 3/29/06
Digested by: [illegible]

Digestion Method
☒ EPA 200.8 for ICP-MS
☐ _____

BK 2288
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Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BLK	50	50	N	
BS				
BSD				
MS - 20G				FILTERED FILTERED
MSD - 20				
185622 - 20				
- 21				
- 22				
- 23D				
- 24G				
- 25				
- 26 7				
- 27G				
- 28D				
- 29				
- 30 7				
- 31C				
- 33D				
- 34				
- 35				
- 36 7				
- 37				
622 - 18A				

	Reagent ID or LIMS #	Initials / Date
.5 digestion temperature (90-95 degrees C)	95	KLL 3/29
.5 mL of spike solution was added to all spikes	52309	
concentrated HCl	C02031 / BAKER	
concentrated HNO3	B45053	
☐ filtered thru' Whatman # 541		

Continued from page ____
Continued on page ____

3/29/06
Extraction Chemist / Date

3/29/06
Review Initials / Date

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

Inst : MET04
Calnum : 46114615001
Units : ug/L

Date : 20-MAR-2006 14:15
X Axis : R

Type : WATER

Reviewer: ---
Inj Vol : 2000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	111455	46114615002	Std02Rep1	20-MAR-2006 14:17	S2955 (500X)
L2	111455	46114615003	Std03Rep1	20-MAR-2006 14:19	S2955 (200X)
L3	111455	46114615004	Std04Rep1	20-MAR-2006 14:21	S2955 (50X)
L4	111455	46114615005	Std05Rep1	20-MAR-2006 14:23	S2955 (20X)
L5	111455	46114615006	Std06Rep1	20-MAR-2006 14:25	S2955 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Mercury	70360	62562	58767	55668	54295	LINR	-0.0864	1.85E-5		60330	1.000	.99	

726

LINR=Linear regression
Instrument amount = a0 + response * a1 + response^2 * a2

46114615001

WinHg Database 1.3

File Utility Help

RN RN

Protocol hgppb

Dataset/Proto 032006 /hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.84885e-5

C -8.63739e-2

Rho .999882

Type Linear

☑ Calibrated

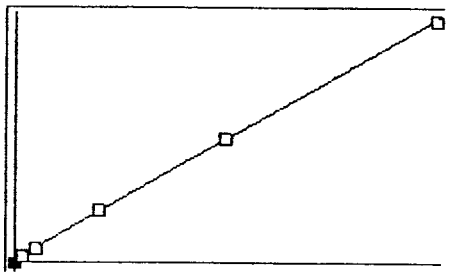
☑ Accepted

Accept

Rel. Abs.
542947

Accepted

New



Conc. 10.0

Include S1 Rep 1 ☑

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.064	-.064	1208	1	1207		
02	.20000	.174	-.026	14072	0%	14072		
03	.50000	.492	-.008	31281	0%	31281		
04	2.0000	2.09	.087	117535	0%	117534		
05	5.0000	5.06	.060	278342	0%	278342		
06	10.000	9.95	-.048	542947	0%	542947		

Ready NUM

```
Line    Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Standard: 1 Rep: 1              Seq:  3       14:15:53 20 Mar 06   HG

Hg     .000    ppb       1207
               Bkgd 1    9993408

*** Standard: 2 Rep: 1              Seq:  4       14:17:39 20 Mar 06   HG

Hg     .200    ppb       14072
               Bkgd 1    9992269

*** Standard: 3 Rep: 1              Seq:  5       14:19:35 20 Mar 06   HG

Hg     .500    ppb       31281
               Bkgd 1    9990201

*** Standard: 4 Rep: 1              Seq:  6       14:21:17 20 Mar 06   HG

Hg     2.00    ppb       117534
               Bkgd 1    9989031

*** Standard: 5 Rep: 1              Seq:  7       14:23:02 20 Mar 06   HG

Hg     5.00    ppb       278342
               Bkgd 1    9988639

*** Standard: 6 Rep: 1              Seq:  8       14:25:01 20 Mar 06   HG

Hg     10.0    ppb       542947
               Bkgd 1    9988543

*** Check Standard: 2  Ck2s2957     Seq:  9       14:28:26 20 Mar 06   HG
Line  Flag             Intensities
Hg                     292365
               Bkgd 1  9986790

*** Check Standard: 1  Ck1ICB       Seq:  10      14:30:36 20 Mar 06   HG
Line  Flag             Intensities
Hg                     463
               Bkgd 1  9981903

*** Sample ID: qc332126             Seq:  11      14:32:18 20 Mar 06   HG
                          111455,1
Hg    -.069    ppb       936
               Bkgd 1    9980605

=============================================================================
```

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 46114717 Instrument: MET04 HydraAA HG Analyzer Begun: 20-MAR-2006
Analytical Method: EPA 7470A SOP Version: HG_water_rv7
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flag
001	111468	CCV					20-MAR-2006 15:57	1.0	1.0	1	5.000	46114615001	5.180		ug/L	104		
002	111468	CCB					20-MAR-2006 15:59	1.0	1.0			46114615001	ND	0.20	ug/L			
003	111468	BLANK	QC332184		111468	Filtra	20-MAR-2006 16:01	1.0	1.0			46114615001	ND	0.20	ug/L			
004	111468	BS	QC332185		111468	Filtra	20-MAR-2006 16:04	1.0	1.0		5.000	46114615001	5.010	0.20	ug/L	100		
005	111468	BSD	QC332186		111468	Filtra	20-MAR-2006 16:06	1.0	1.0		5.000	46114615001	4.800	0.20	ug/L	96	4	
006	111468	MSS	185586-017		111468	Filtra	20-MAR-2006 16:08	1.0	1.0			46114615001	ND	0.20	ug/L			
007	111468	MS	QC332187	185586-017	111468	Filtra	20-MAR-2006 16:10	1.0	1.0		5.000	46114615001	5.060	0.20	ug/L	101		
008	111468	MSD	QC332188	185586-017	111468	Filtra	20-MAR-2006 16:13	1.0	1.0		5.000	46114615001	5.100	0.20	ug/L	102	1	
009	111468	SAMPLE	185589-002		111468	Water	20-MAR-2006 16:15	1.0	1.0			46114615001	ND	0.20	ug/L			
010	111468	SAMPLE	185622-006		111468	Filtra	20-MAR-2006 16:17	1.0	1.0			46114615001	ND	0.20	ug/L			
011	111468	SAMPLE	185622-007		111468	Filtra	20-MAR-2006 16:19	1.0	1.0			46114615001	ND	0.20	ug/L			
012	111468	SAMPLE	185622-020		111468	Filtra	20-MAR-2006 16:21	1.0	1.0			46114615001	ND	0.20	ug/L			
013	111468	CCV					20-MAR-2006 16:23	1.0	1.0	2	7.500	46114615001	7.690		ug/L	103		
014	111468	CCB					20-MAR-2006 16:25	1.0	1.0			46114615001	ND	0.20	ug/L			
015	111468	SAMPLE	185622-021		111468	Filtra	20-MAR-2006 16:27	1.0	1.0			46114615001	ND	0.20	ug/L			
016	111468	SAMPLE	185622-022		111468	Filtra	20-MAR-2006 16:29	1.0	1.0			46114615001	ND	0.20	ug/L			
017	111468	SAMPLE	185622-024		111468	Filtra	20-MAR-2006 16:31	1.0	1.0			46114615001	ND	0.20	ug/L			
018	111468	SAMPLE	185622-025		111468	Filtra	20-MAR-2006 16:33	1.0	1.0			46114615001	ND	0.20	ug/L			
019	111468	SAMPLE	185622-026		111468	Filtra	20-MAR-2006 16:35	1.0	1.0			46114615001	ND	0.20	ug/L			
020	111468	SAMPLE	185622-027		111468	Filtra	20-MAR-2006 16:36	1.0	1.0			46114615001	ND	0.20	ug/L			
021	111468	SAMPLE	185622-028		111468	Filtra	20-MAR-2006 16:38	1.0	1.0			46114615001	ND	0.20	ug/L			
022	111468	SAMPLE	185622-029		111468	Filtra	20-MAR-2006 16:40	1.0	1.0			46114615001	ND	0.20	ug/L			
023	111468	SAMPLE	185622-030		111468	Filtra	20-MAR-2006 16:42	1.0	1.0			46114615001	ND	0.20	ug/L			
024	111468	SAMPLE	185622-031		111468	Filtra	20-MAR-2006 16:44	1.0	1.0			46114615001	ND	0.20	ug/L			
025	111468	CCV					20-MAR-2006 16:46	1.0	1.0	3	2.500	46114615001	2.610		ug/L	104		
026	111468	CCB					20-MAR-2006 16:48	1.0	1.0			46114615001	ND	0.20	ug/L			
027	111468	SAMPLE	185622-033		111468	Filtra	20-MAR-2006 16:50	1.0	1.0			46114615001	ND	0.20	ug/L			
028	111468	SAMPLE	185622-034		111468	Filtra	20-MAR-2006 16:52	1.0	1.0			46114615001	ND	0.20	ug/L			
029	111468	SAMPLE	185622-035		111468	Filtra	20-MAR-2006 16:54	1.0	1.0			46114615001	ND	0.20	ug/L			
030	111468	SAMPLE	185622-036		111468	Filtra	20-MAR-2006 16:56	1.0	1.0			46114615001	ND	0.20	ug/L			
031	111468	SAMPLE	185622-037		111468	Filtra	20-MAR-2006 16:59	1.0	1.0			46114615001	ND	0.20	ug/L			
032	111468	CCV					20-MAR-2006 17:00	1.0	1.0	1	5.000	46114615001	5.240		ug/L	105		
033	111468	CCB					20-MAR-2006 17:02	1.0	1.0			46114615001	ND	0.20	ug/L			

729

Stds used: 1=S2959 2=S2960 3=S2958

Analyst: [signature] Date: 3/20/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 46114615 Instrument: MET04 HydraAA HG Analyzer Begun: 20-MAR-2006
Analytical Method: EPA 7470A SOP Version: HG_water_rv7
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	111455	ICALBLK	Std01Rep1				20-MAR-2006 14:15	1.0	1.0									
002	111455	ICAL	Std02Rep1				20-MAR-2006 14:17	1.0	1.0									
003	111455	ICAL	Std03Rep1				20-MAR-2006 14:19	1.0	1.0									
004	111455	ICAL	Std04Rep1				20-MAR-2006 14:21	1.0	1.0									
005	111455	ICAL	Std05Rep1				20-MAR-2006 14:23	1.0	1.0									
006	111455	ICAL	Std06Rep1				20-MAR-2006 14:25	1.0	1.0									
007	111455	ICV					20-MAR-2006 14:28	1.0	1.0	2	5.000	46114615001	5.320		ug/L	106		
008	111455	ICB					20-MAR-2006 14:30	1.0	1.0			46114615001	ND	0.20	ug/L			
009	111455	BLANK	QC332126		111455	Filtra	20-MAR-2006 14:32	1.0	1.0			46114615001	ND	0.20	ug/L			
010	111455	BLANK	QC332127		111455	TCLP L	20-MAR-2006 14:34	1.0	5.0			46114615001	ND	1.0	ug/L			
011	111455	BS	QC332128		111455	Filtra	20-MAR-2006 14:35	1.0	1.0		5.000	46114615001	5.360	0.20	ug/L	107		
012	111455	BSD	QC332129		111455	Filtra	20-MAR-2006 14:37	1.0	1.0		5.000	46114615001	5.170	0.20	ug/L	103	4	
013	111455	MSS	185516-003		111455	TCLP L	20-MAR-2006 14:39	1.0	5.0			46114615001	5.3	1.0	ug/L			
014	111455	MS	QC332130	185516-003	111455	TCLP L	20-MAR-2006 14:41	1.0	5.0		25.00	46114615001	31.60	1.0	ug/L	105		
015	111455	MSD	QC332131	185516-003	111455	TCLP L	20-MAR-2006 14:43	1.0	5.0		25.00	46114615001	32.05	1.0	ug/L	107	1	
016	111455	MSS	185598-010		111455	Filtra	20-MAR-2006 14:45	1.0	1.0			46114615001	ND	0.20	ug/L			
017	111455	MS	QC332132	185598-010	111455	Filtra	20-MAR-2006 14:47	1.0	1.0		5.000	46114615001	5.540	0.20	ug/L	111		
018	111455	MSD	QC332133	185598-010	111455	Filtra	20-MAR-2006 14:48	1.0	1.0		5.000	46114615001	5.510	0.20	ug/L	110	1	
019	111455	CCV					20-MAR-2006 14:50	1.0	1.0	3	2.500	46114615001	2.600		ug/L	104		
020	111455	CCB					20-MAR-2006 14:52	1.0	1.0			46114615001	ND	0.20	ug/L			
021	111455	SAMPLE	185516-001		111455	TCLP L	20-MAR-2006 14:54	1.0	5.0			46114615001	96 >LR	1.0	ug/L			>LR ca
022	111455	SAMPLE	185516-002		111455	TCLP L	20-MAR-2006 14:56	1.0	5.0			46114615001	5.3	1.0	ug/L			
023	111455	SAMPLE	185598-005		111455	Water	20-MAR-2006 14:58	1.0	1.0			46114615001	ND	0.20	ug/L			
024	111455	SAMPLE	185598-006		111455	Water	20-MAR-2006 15:00	1.0	1.0			46114615001	ND	0.20	ug/L			
025	111455	SAMPLE	185598-007		111455	Water	20-MAR-2006 15:01	1.0	1.0			46114615001	ND	0.20	ug/L			
026	111455	SAMPLE	185598-012		111455	Water	20-MAR-2006 15:03	1.0	1.0			46114615001	ND	0.20	ug/L			
027	111455	SAMPLE	185598-005		111455	Filtra	20-MAR-2006 15:05	1.0	1.0			46114615001	ND	0.20	ug/L			
028	111455	SAMPLE	185598-006		111455	Filtra	20-MAR-2006 15:07	1.0	1.0			46114615001	ND	0.20	ug/L			
029	111455	SAMPLE	185598-007		111455	Filtra	20-MAR-2006 15:09	1.0	1.0			46114615001	ND	0.20	ug/L			
030	111455	SAMPLE	185598-009		111455	Filtra	20-MAR-2006 15:11	1.0	1.0			46114615001	ND	0.20	ug/L			
031	111455	CCV					20-MAR-2006 15:13	1.0	1.0	4	5.000	46114615001	5.300		ug/L	106		
032	111455	CCB					20-MAR-2006 15:16	1.0	1.0			46114615001	ND	0.20	ug/L			
033	111455	SAMPLE	185598-011		111455	Filtra	20-MAR-2006 15:17	1.0	1.0			46114615001	ND	0.20	ug/L			
034	111455	SAMPLE	185598-012		111455	Filtra	20-MAR-2006 15:20	1.0	1.0			46114615001	ND	0.20	ug/L			
035	111455	SAMPLE	185618-003		111455	Water	20-MAR-2006 15:21	1.0	1.0			46114615001	ND	0.20	ug/L			
036	111455	SAMPLE	185627-002		111455	Water	20-MAR-2006 15:23	1.0	1.0			46114615001	ND	0.20	ug/L			
037	111455	SAMPLE	185635-001		111455	Water	20-MAR-2006 15:25	1.0	1.0			46114615001	ND	0.20	ug/L			
038	111455	SAMPLE	185516-001		111455	TCLP L	20-MAR-2006 15:27	4.0	5.0			46114615001	88	4.0	ug/L			
039	111455	CCV					20-MAR-2006 15:30	1.0	1.0	5	7.500	46114615001	7.660		ug/L	102		
040	111455	CCB					20-MAR-2006 15:32	1.0	1.0			46114615001	ND	0.20	ug/L			

730

Stds used: 1=S2955 2=S2957 3=S2958 4=S2959 5=S2960
Flags used: >LR=overrange b=noncompliant calc=check quantitation

Analyst: [signature] Date: 3/20/06

Curtis & Tompkins Laboratories **Sample Preparation Summary** **20-MAR-2006 13:04**

Batch Number : 111468
Date Extracted: 20-MAR-2006
Extracted by : Kale Clauson
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : mL
Clean-up :

Spike #1 ID : S2955
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185586-017			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185589-002			Polymatrix	Water	50	mL	50	1.000000	1					HG		
185622-006			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185622-007			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185622-020			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185622-021			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185622-022			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185622-024			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185622-025			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185622-026			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185622-027			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185622-028			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185622-029			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185622-030			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185622-031			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185622-033			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185622-034			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185622-035			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185622-036			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185622-037			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
QC332184	BLANK			Filtrate	50	mL	50	1.000000	1					HG		
QC332185	BS			Filtrate	50	mL	50	1.000000	1		2.5			HG		
QC332186	BSD			Filtrate	50	mL	50	1.000000	1		2.5			HG		
QC332187	MS	of 185586-017		Filtrate	50	mL	50	1.000000	1		2.5			HG		
QC332188	MSD	of 185586-017		Filtrate	50	mL	50	1.000000	1		2.5			HG		

Prep Chemist: [signature] Reviewed By: K Carlyon Date: 3/20/06

Relinquished By: [signature] Received By: [signature] Date: 3/20/06

Water Digestion for Mercury

Curtis & Tompkins, Ltd

LIMS Batch #: ~~111466~~ KMC 3/20 111465

Date Digested: 3/20/06

Digested by: KMC

Digestion Method

☒ EPA 7470A/ EPA 245.1

☐ _____

BK 2277

Page 24

Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
185586 - 017 MSSJ	50	50	N	FILTRATE
185589 - 002 A				WATER
185622 - 006 D				FILTRATE
007 ↓				
020 G				
021				
022				
024				
025 ↓				
026 F				
027 G				
028 D				
029 ↓				
030 F				
031 C				
033 D				
034				
035 ↓				
036 F				
037 ↓				
BLANK				
BS				
BSD				
MS 185586 - 017				
MSD 185586 - 017				

	Reagent ID/ LIMS# / Time	Initials / Date
2.5 mL of spike solution was added to all spikes	529155	KMC 3/20
ICAL Source WS#	529155	
ICV / CCV WS#	529157/58/59/60	
Digestion of Samples & Standards: Time ON / Temperature ON	1230 / 95°C	
Time OFF/ Temperature OFF	230 / 95°C	
concentrated H_2SO_4	B03032	
concentrated HNO_3	B491053	
5% $KMnO_4$	K 031006	
5% $K_2S_2O_8$	K_2 021906	
NaCl.hydroxylamine hydrochloride	Hy 022806	
Stannous Chloride	$SnCl_2$ 031606	
☐ filtered thru' 0.45 um syringe filter		

3/20/06

Prep Chemist / Date

Continued from page ____

Continued on page ____

Carlyn 3/20/06

Reviewed by / Date

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

Inst : MET04
Calnum : 46116001001 Date : 21-MAR-2006 13:21 Type : WATER Reviewer: ---
Units : ug/L X Axis : R Inj Vol : 2000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	111500	46116001002	Std02Rep1	21-MAR-2006 13:23	S2955 (500X)
L2	111500	46116001003	Std03Rep1	21-MAR-2006 13:25	S2955 (200X)
L3	111500	46116001004	Std04Rep1	21-MAR-2006 13:27	S2955 (50X)
L4	111500	46116001005	Std05Rep1	21-MAR-2006 13:28	S2955 (20X)
L5	111500	46116001006	Std06Rep1	21-MAR-2006 13:31	S2955 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Mercury	63630	60000	54034	54325	52201	LINR	-0.0689	1.92E-5		56838	1.000	.99	

733

LINR=Linear regression

Instrument amount = a0 + response * a1 + response^2 * a2

46116001001

WinHg Database 1.3

File Utility Help

RN RN

Protocol hgppb BUSY Dataset/Proto 032106 /hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.91552e-5

C -6.89031e-2

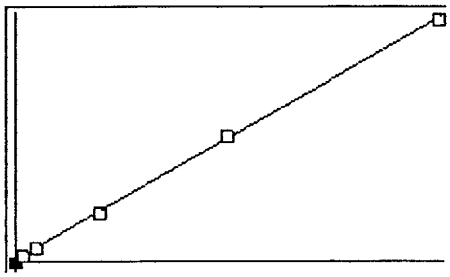
Rho .999834

Type

Rel. Abs.
522012

Accepted

New



Include S1 Rep 1

Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.046	-.046	1182	0	1182		
02	.20000	.175	-.025	12726	0%	12726		
03	.50000	.506	.006	30001	0%	30000		
04	2.0000	2.00	.001	108069	0%	108068		
05	5.0000	5.13	.134	271624	0%	271624		
06	10.000	9.93	-.070	522012	0%	522012		

Ready NUM

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Standard: 1 Rep: 1              Seq:  8       13:21:43 21 Mar 06   HG

Hg     .000   ppb       1182
              Bkgd 1    9999217

*** Standard: 2 Rep: 1              Seq:  9       13:23:38 21 Mar 06   HG

Hg     .200   ppb       12726
              Bkgd 1    9999346

*** Standard: 3 Rep: 1              Seq:  10      13:25:23 21 Mar 06   HG

Hg     .500   ppb       30000
              Bkgd 1    9997602

*** Standard: 4 Rep: 1              Seq:  11      13:27:11 21 Mar 06   HG

Hg     2.00   ppb       108068
              Bkgd 1    9995605

*** Standard: 5 Rep: 1              Seq:  12      13:28:57 21 Mar 06   HG

Hg     5.00   ppb       271624
              Bkgd 1    9997005

*** Standard: 6 Rep: 1              Seq:  13      13:31:02 21 Mar 06   HG

Hg     10.0   ppb       522012
              Bkgd 1    9992066

*** Check Standard: 2  Ck2s2957     Seq:  14      13:32:49 21 Mar 06   HG
Line   Flag            Intensities
Hg                     275235
              Bkgd 1   9992087

*** Check Standard: 1  Ck1ICB       Seq:  15      13:34:49 21 Mar 06   HG
Line   Flag            Intensities
Hg                     899
              Bkgd 1   9994369

*** Sample ID: qc332307             Seq:  16      13:36:38 21 Mar 06   HG
                           111500,1
Hg    -.055   ppb       717
              Bkgd 1    9996846

=============================================================================
```

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 46116001 Instrument: MET04 HydraAA HG Analyzer Begun: 21-MAR-2006
Analytical Method: EPA 7470A SOP Version: HG_water_rv7
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	111500	ICALBLK	Std01Rep1				21-MAR-2006 13:21	1.0	1.0									
002	111500	ICAL	Std02Rep1				21-MAR-2006 13:23	1.0	1.0									
003	111500	ICAL	Std03Rep1				21-MAR-2006 13:25	1.0	1.0									
004	111500	ICAL	Std04Rep1				21-MAR-2006 13:27	1.0	1.0									
005	111500	ICAL	Std05Rep1				21-MAR-2006 13:28	1.0	1.0									
006	111500	ICAL	Std06Rep1				21-MAR-2006 13:31	1.0	1.0									
007	111500	ICV					21-MAR-2006 13:32	1.0	1.0	2	5.000	46116001001	5.200		ug/L	104		
008	111500	ICB					21-MAR-2006 13:34	1.0	1.0			46116001001	ND	0.20	ug/L			
009	111500	BLANK	QC332307		111500	Filtra	21-MAR-2006 13:36	1.0	1.0			46116001001	ND	0.20	ug/L			
010	111500	BS	QC332308		111500	Filtra	21-MAR-2006 13:38	1.0	1.0		5.000	46116001001	5.320	0.20	ug/L	106		
011	111500	BSD	QC332309		111500	Filtra	21-MAR-2006 13:40	1.0	1.0		5.000	46116001001	5.160	0.20	ug/L	103	3	
012	111500	MSS	185622-003		111500	Filtra	21-MAR-2006 13:42	1.0	1.0			46116001001	ND	0.20	ug/L			
013	111500	MS	QC332310	185622-003	111500	Filtra	21-MAR-2006 13:44	1.0	1.0		5.000	46116001001	5.240	0.20	ug/L	105		
014	111500	MSD	QC332311	185622-003	111500	Filtra	21-MAR-2006 13:47	1.0	1.0		5.000	46116001001	5.270	0.20	ug/L	105	1	
015	111500	SAMPLE	185622-004		111500	Filtra	21-MAR-2006 13:49	1.0	1.0			46116001001	ND	0.20	ug/L			
016	111500	SAMPLE	185622-005		111500	Filtra	21-MAR-2006 13:50	1.0	1.0			46116001001	ND	0.20	ug/L			
017	111500	SAMPLE	185624-001		111500	Water	21-MAR-2006 13:52	1.0	1.0			46116001001	ND	0.20	ug/L			
018	111500	SAMPLE	185644-001		111500	Water	21-MAR-2006 13:54	1.0	1.0			46116001001	0.69	0.20	ug/L			
019	111500	CCV					21-MAR-2006 13:56	1.0	1.0	3	2.500	46116001001	2.690		ug/L	108		
020	111500	CCB					21-MAR-2006 13:57	1.0	1.0			46116001001	ND	0.20	ug/L			
021	111500	SAMPLE	185648-001		111500	Water	21-MAR-2006 13:59	1.0	1.0			46116001001	0.56	0.20	ug/L			736
022	111500	SAMPLE	185651-001		111500	Water	21-MAR-2006 14:01	1.0	1.0			46116001001	ND	0.20	ug/L			
023	111500	SAMPLE	185651-002		111500	Water	21-MAR-2006 14:03	1.0	1.0			46116001001	0.21	0.20	ug/L			
024	111500	SAMPLE	185651-001		111500	Filtra	21-MAR-2006 14:05	1.0	1.0			46116001001	ND	0.20	ug/L			
025	111500	SAMPLE	185651-002		111500	Filtra	21-MAR-2006 14:07	1.0	1.0			46116001001	ND	0.20	ug/L			
026	111500	SAMPLE	185655-001		111500	Filtra	21-MAR-2006 14:09	1.0	1.0			46116001001	ND	0.20	ug/L			
027	111500	SAMPLE	185659-001		111500	Water	21-MAR-2006 14:11	1.0	2.500			46116001001	1.8	0.50	ug/L			
028	111500	SAMPLE	185659-002		111500	Water	21-MAR-2006 14:13	1.0	2.500			46116001001	ND	0.50	ug/L			
029	111500	SAMPLE	185659-003		111500	Water	21-MAR-2006 14:15	1.0	2.500			46116001001	ND	0.50	ug/L			
030	111500	SAMPLE	185659-004		111500	Water	21-MAR-2006 14:17	1.0	2.500			46116001001	ND	0.50	ug/L			
031	111500	CCV					21-MAR-2006 14:19	1.0	1.0	4	5.000	46116001001	5.330		ug/L	107		
032	111500	CCB					21-MAR-2006 14:21	1.0	1.0			46116001001	ND	0.20	ug/L			

Stds used: 1=S2955 2=S2957 3=S2958 4=S2959

Analyst: [signature] Date: 3/21/06

Curtis & Tompkins Laboratories **Sample Preparation Summary** **21-MAR-2006 10:32**

Batch Number : 111500
Date Extracted: 21-MAR-2006
Extracted by : Kale Clauson
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : mL
Clean-up :

Spike #1 ID : S2955
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185622-003			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185622-004			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185622-005			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185624-001			Award Metals	Water	50	mL	50	1.000000	1					T26/HG		
185644-001			City of Berkeley - Toxics	Water	50	mL	50	1.000000	1					HG		
185648-001			City of Berkeley - Toxics	Water	50	mL	50	1.000000	1					HG		
185651-001			Iris Environmental	Filtrate	50	mL	50	1.000000	1					T26/HG		
185651-001			Iris Environmental	Water	50	mL	50	1.000000	1					T26/HG		
185651-002			Iris Environmental	Filtrate	50	mL	50	1.000000	1					T26/HG		
185651-002			Iris Environmental	Water	50	mL	50	1.000000	1					T26/HG		
185655-001			Tetra Tech EC, Inc.	Filtrate	50	mL	50	1.000000	1					T26/HG		
185659-001			Alco Iron & Metal	Water	20	mL	50	2.500000	1					HG		
185659-002			Alco Iron & Metal	Water	20	mL	50	2.500000	1					HG		
185659-003			Alco Iron & Metal	Water	20	mL	50	2.500000	1					HG		
185659-004			Alco Iron & Metal	Water	20	mL	50	2.500000	1					HG		
QC332307	BLANK			Filtrate	50	mL	50	1.000000	1					HG		
QC332308	BS			Filtrate	50	mL	50	1.000000	1		2.5			HG		
QC332309	BSD			Filtrate	50	mL	50	1.000000	1		2.5			HG		
QC332310	MS	of 185622-003		Filtrate	50	mL	50	1.000000	1		2.5			HG		
QC332311	MSD	of 185622-003		Filtrate	50	mL	50	1.000000	1		2.5			HG		

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Prep Chemist: [signature] 3/21 Reviewed By: [signature] Date: 3-21-06

Relinquished By: [signature] Received By: [signature] Date: 3/21/06

Water Digestion for Mercury Curtis & Tompkins, Ltd.

LIMS Batch #: 111500
Date Digested: 3/21/06
Digested by: KMC

Digestion Method
☒ EPA 7470A/ EPA 245.1
☐ _____

BK 2277
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Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
185622 - 003 MSS D	50	50	N	FILTRATE (F.F.)
004				
005				
185624 - 001 A				WATER
185644 - 001 D				
185648 - 001				
185651 - 001 B				
002				
185651 - 001 A				FILTRATE
002				
185655 - 001 A				(F.F.)
185659 - 001 C	KMC 3/21 - 20			WATER - DILUTED DUE TO
002	- 20			LIMITED AMT. OF
003	- 20			SAMPLE.
004	- 20			
BLANK				
BS				
BSD				
MS 185622 - 003				
MSD 185622 - 003				

	Reagent ID/ LIMS# / Time	Initials / Date
25 mL of spike solution was added to all spikes	S2955	KMC 3/21/06
ICAL Source WS#	S2955	
ICV / CCV WS#	S2957/58/59/60	
Digestion of Samples & Standards: Time ON / Temperature ON	1030 / 95°C	
Time OFF/ Temperature OFF	1230 / 95°C	
concentrated H_2SO_4	B03032	
concentrated HNO_3	B49053	
5% $KMnO_4$	K 031006	
5% $K_2S_2O_8$	K_2 021406	
NaCl.hydroxylamine hydrochloride	Hy 022806	
Stannous Chloride	$SnCl_2$ 031606	
☐ filtered thru' 0.45 um syringe filter		

3/21/06
Prep Chemist / Date

Continued from page 738
Continued on page

3-21-06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 6020 Water 200.8
As of 04/13/06

Analyte	Units	MET06 A	MET06 E	MET06 H	MET05
Aluminum	ug/L	0.40			1.0
Antimony	ug/L	0.0093			0.078
Arsenic	ug/L		0.034		0.65
Barium	ug/L	0.023			0.23
Beryllium	ug/L	0.017			0.055
Cadmium	ug/L	0.0058			0.14
Calcium	ug/L	5.6			15
Chromium	ug/L		0.038		0.085
Cobalt	ug/L		0.0072		0.034
Copper	ug/L		0.028		0.31
Iron	ug/L			1.9	4.2
Lead	ug/L	0.013			0.24
Magnesium	ug/L	0.73			2.1
Manganese	ug/L		0.011		0.082
Molybdenum	ug/L	0.0063			0.062
Nickel	ug/L		0.029		0.16
Potassium	ug/L	5.3			8.9
Selenium	ug/L			0.027	0.35
Silver	ug/L	0.0079			0.041
Sodium	ug/L		2.7		15
Thallium	ug/L	0.030			0.073
Vanadium	ug/L		0.026		0.15
Zinc	ug/L		0.062		0.52

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 6010B Water
As of 04/13/06

Analyte	Units	MET01	MET07	MET09 A	MET09 R	MET08 A	MET08 R
Aluminum	ug/L	33	19		28		42
Antimony	ug/L	21	3.9	4.3		3.6	
Arsenic	ug/L	120	2.8	0.80		1.0	
Barium	ug/L	2.7	0.13	1.6		0.41	0.61
Beryllium	ug/L	0.45	0.48	0.68		0.21	
Cadmium	ug/L	2.2	0.29	1.7		0.55	
Calcium	ug/L	64	9.7		28		51
Chromium	ug/L	3.2	0.50	1.8		0.56	
Cobalt	ug/L	7.0	0.68	1.5		0.46	
Copper	ug/L	2.6	0.62	2.0		0.71	
Iron	ug/L	22	24		39		17
Lead	ug/L	71	1.9	0.46		0.57	
Magnesium	ug/L	47	16		95		15
Manganese	ug/L	2.6	0.57	1.8		0.60	1.2
Molybdenum	ug/L	8.3	2.4	1.6		0.43	
Nickel	ug/L	15	0.74	2.0		0.92	
Potassium	ug/L	300		.	180		130
Selenium	ug/L	85	4.2	2.6		1.6	
Silver	ug/L	3.5	0.77	1.2		1.4	
Sodium	ug/L	100			70		39
Thallium	ug/L	200	3.5	1.6		0.93	
Vanadium	ug/L	2.4	0.57	1.5		0.42	
Zinc	ug/L	5.8	1.1	7.7		1.5	1.6
Boron	ug/L	52		12		14	
Tin	ug/L	22		14		4.4	
Titanium	ug/L	2.1		3.5		1.0	1.3

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 7470A Water
As of 04/13/06

Analyte	Units	MET04
Mercury	ug/L	0.080

GENERAL CHEMISTRY

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Received:	03/17/06
Units:	mg/L	Analyzed:	03/30/06
Diln Fac:	1.000		

Field ID: BHWGW01 Batch#: 111870
Type: SAMPLE Sampled: 03/16/06
Lab ID: 185622-001

Analyte	Result	RL
Alkalinity, Bicarbonate	520	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	520	1.0

Field ID: BHWGW05 Batch#: 111870
Type: SAMPLE Sampled: 03/16/06
Lab ID: 185622-002

Analyte	Result	RL
Alkalinity, Bicarbonate	790	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	790	1.0

Field ID: LF08GW02B Batch#: 111870
Type: SAMPLE Sampled: 03/16/06
Lab ID: 185622-003

Analyte	Result	RL
Alkalinity, Bicarbonate	150	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	150	1.0

Field ID: LF08GW03 Batch#: 111870
Type: SAMPLE Sampled: 03/16/06
Lab ID: 185622-004

Analyte	Result	RL
Alkalinity, Bicarbonate	290	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	290	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Received:	03/17/06
Units:	mg/L	Analyzed:	03/30/06
Diln Fac:	1.000		

Field ID: LF08GW04 Batch#: 111870
Type: SAMPLE Sampled: 03/16/06
Lab ID: 185622-005

Analyte	Result	RL
Alkalinity, Bicarbonate	130	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	130	1.0

Field ID: DUP0316064A Batch#: 111870
Type: SAMPLE Sampled: 03/16/06
Lab ID: 185622-006

Analyte	Result	RL
Alkalinity, Bicarbonate	86	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	86	1.0

Field ID: LF01GW02 Batch#: 111870
Type: SAMPLE Sampled: 03/16/06
Lab ID: 185622-008

Analyte	Result	RL
Alkalinity, Bicarbonate	280	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	280	1.0

Field ID: 231GW26 Batch#: 111870
Type: SAMPLE Sampled: 03/16/06
Lab ID: 185622-009

Analyte	Result	RL
Alkalinity, Bicarbonate	290	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	290	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Received:	03/17/06
Units:	mg/L	Analyzed:	03/30/06
Diln Fac:	1.000		

Field ID: 231GW24 Batch#: 111870
Type: SAMPLE Sampled: 03/16/06
Lab ID: 185622-010

Analyte	Result	RL
Alkalinity, Bicarbonate	330	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	330	1.0

Field ID: 231GW19 Batch#: 111870
Type: SAMPLE Sampled: 03/16/06
Lab ID: 185622-011

Analyte	Result	RL
Alkalinity, Bicarbonate	270	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	270	1.0

Field ID: 231GW29 Batch#: 111870
Type: SAMPLE Sampled: 03/16/06
Lab ID: 185622-012

Analyte	Result	RL
Alkalinity, Bicarbonate	300	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	300	1.0

Field ID: BB3PZ101 Batch#: 111870
Type: SAMPLE Sampled: 03/16/06
Lab ID: 185622-013

Analyte	Result	RL
Alkalinity, Bicarbonate	150	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	150	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Received:	03/17/06
Units:	mg/L	Analyzed:	03/30/06
Diln Fac:	1.000		

Field ID: BB3GW100 Batch#: 111870
Type: SAMPLE Sampled: 03/16/06
Lab ID: 185622-014

Analyte	Result	RL
Alkalinity, Bicarbonate	250	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	250	1.0

Field ID: 207GW03 Batch#: 111870
Type: SAMPLE Sampled: 03/16/06
Lab ID: 185622-015

Analyte	Result	RL
Alkalinity, Bicarbonate	460	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	460	1.0

Field ID: 1065MW10A Batch#: 111870
Type: SAMPLE Sampled: 03/16/06
Lab ID: 185622-016

Analyte	Result	RL
Alkalinity, Bicarbonate	260	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	260	1.0

Field ID: LF02GW01 Batch#: 111870
Type: SAMPLE Sampled: 03/16/06
Lab ID: 185622-017

Analyte	Result	RL
Alkalinity, Bicarbonate	230	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	230	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Received:	03/17/06
Units:	mg/L	Analyzed:	03/30/06
Diln Fac:	1.000		

Field ID: EPSP01 Batch#: 111884
Type: SAMPLE Sampled: 03/16/06
Lab ID: 185622-018

Analyte	Result	RL
Alkalinity, Bicarbonate	330	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	330	1.0

Field ID: DAEGW101 Batch#: 111884
Type: SAMPLE Sampled: 03/16/06
Lab ID: 185622-020

Analyte	Result	RL
Alkalinity, Bicarbonate	870	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	870	1.0

Field ID: DAEGW102 Batch#: 111884
Type: SAMPLE Sampled: 03/16/06
Lab ID: 185622-021

Analyte	Result	RL
Alkalinity, Bicarbonate	800	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	800	1.0

Field ID: DAEGW104 Batch#: 111884
Type: SAMPLE Sampled: 03/16/06
Lab ID: 185622-022

Analyte	Result	RL
Alkalinity, Bicarbonate	340	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	340	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Received:	03/17/06
Units:	mg/L	Analyzed:	03/30/06
Diln Fac:	1.000		

Field ID: DAEGW06 Batch#: 111884
Type: SAMPLE Sampled: 03/16/06
Lab ID: 185622-023

Analyte	Result	RL
Alkalinity, Bicarbonate	200	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	200	1.0

Field ID: 1349MW01 Batch#: 111884
Type: SAMPLE Sampled: 03/16/06
Lab ID: 185622-024

Analyte	Result	RL
Alkalinity, Bicarbonate	310	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	310	1.0

Field ID: 1349MW03R Batch#: 111884
Type: SAMPLE Sampled: 03/16/06
Lab ID: 185622-025

Analyte	Result	RL
Alkalinity, Bicarbonate	440	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	440	1.0

Field ID: 1349MW100 Batch#: 111884
Type: SAMPLE Sampled: 03/16/06
Lab ID: 185622-026

Analyte	Result	RL
Alkalinity, Bicarbonate	930	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	930	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Received:	03/17/06
Units:	mg/L	Analyzed:	03/30/06
Diln Fac:	1.000		

Field ID: 1349MW101 Batch#: 111884
Type: SAMPLE Sampled: 03/16/06
Lab ID: 185622-027

Analyte	Result	RL
Alkalinity, Bicarbonate	330	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	330	1.0

Field ID: LF10GW03 Batch#: 111884
Type: SAMPLE Sampled: 03/17/06
Lab ID: 185622-028

Analyte	Result	RL
Alkalinity, Bicarbonate	250	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	250	1.0

Field ID: LF10GW100 Batch#: 111884
Type: SAMPLE Sampled: 03/17/06
Lab ID: 185622-029

Analyte	Result	RL
Alkalinity, Bicarbonate	450	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	450	1.0

Field ID: LF6GW101 Batch#: 111884
Type: SAMPLE Sampled: 03/17/06
Lab ID: 185622-030

Analyte	Result	RL
Alkalinity, Bicarbonate	420	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	420	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Received:	03/17/06
Units:	mg/L	Analyzed:	03/30/06
Diln Fac:	1.000		

Field ID: LF6GW104 Batch#: 111884
Type: SAMPLE Sampled: 03/17/06
Lab ID: 185622-031

Analyte	Result	RL
Alkalinity, Bicarbonate	260	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	260	1.0

Field ID: LF08GW01 Batch#: 111884
Type: SAMPLE Sampled: 03/17/06
Lab ID: 185622-033

Analyte	Result	RL
Alkalinity, Bicarbonate	220	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	220	1.0

Field ID: LF08GW06 Batch#: 111884
Type: SAMPLE Sampled: 03/17/06
Lab ID: 185622-034

Analyte	Result	RL
Alkalinity, Bicarbonate	220	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	220	1.0

Field ID: LF08GW06RB01 Batch#: 111884
Type: SAMPLE Sampled: 03/17/06
Lab ID: 185622-035

Analyte	Result	RL
Alkalinity, Bicarbonate	ND	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	2.8	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Received:	03/17/06
Units:	mg/L	Analyzed:	03/30/06
Diln Fac:	1.000		

Field ID: LF6GW100 Batch#: 111884
Type: SAMPLE Sampled: 03/17/06
Lab ID: 185622-036

Analyte	Result	RL
Alkalinity, Bicarbonate	310	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	310	1.0

Field ID: LF6GW103 Batch#: 111884
Type: SAMPLE Sampled: 03/17/06
Lab ID: 185622-037

Analyte	Result	RL
Alkalinity, Bicarbonate	320	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	320	1.0

Type: BLANK Batch#: 111870
Lab ID: QC333778

Analyte	Result	RL
Alkalinity, Bicarbonate	ND	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	ND	1.0

Type: BLANK Batch#: 111884
Lab ID: QC333824

Analyte	Result	RL
Alkalinity, Bicarbonate	ND	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Units:	mg/L
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC333779	Batch#:	111870
Matrix:	Water	Analyzed:	03/30/06

Spiked	Result	%REC	Limits
200.0	189.7	95	90-110

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Units:	mg/L
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC333825	Batch#:	111884
Matrix:	Water	Analyzed:	03/30/06

Spiked	Result	%REC	Limits
200.0	191.6	96	90-110

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Diln Fac:	1.000
Field ID:	LF02GW01	Batch#:	111870
MSS Lab ID:	185622-017	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	mg/L	Analyzed:	03/30/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC333780	225.1	200.0	412.9	94	69-112		
MSD	QC333781		200.0	407.3	91	69-112	1	25

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Diln Fac:	1.000
Field ID:	DAEGW06	Batch#:	111884
MSS Lab ID:	185622-023	Sampled:	03/16/06
Matrix:	Water	Received:	03/17/06
Units:	mg/L	Analyzed:	03/30/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC333826	204.6	200.0	372.0	84	69-112		
MSD	QC333827		200.0	377.6	86	69-112	1	25

RPD= Relative Percent Difference

Analysis: **Alkalinity** Analysis Date: **03/30/06** H_2SO_4 Normality = **0.0186**

Method: **EPA 310.1** / SMWW 2320B Batch No: **111870** conc.(mg/L) Na_2CO_3 for QC = **200**

SOP#: Alkalinity_rv 6.doc Analyst: JKS

SAMPLE	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alkalinity Volume (4.5-4.2) (mL)	**Low Alkalinity** as $CaCO_3$ (mg/L)	Reporting Limit (mg/L)
185763-2	6.97	25	0.00	37.75	1404.30		n/a	1.0
185763-3	6.76	25	0.00	39.90	1484.28		n/a	1.0
185763-4	6.74	25	0.00	51.20	1904.64		n/a	1.0
185763-5	6.90	25	0.00	34.15	1270.38		n/a	1.0
185622-1	7.80	25	0.00	14.10	524.52		n/a	1.0
185622-2	7.23	25	0.00	21.20	788.64		n/a	1.0
185622-3	6.91	25	0.00	4.10	152.52		n/a	1.0
185622-4	7.27	25	0.00	7.90	293.88		n/a	1.0
185622-5	6.56	25	0.00	3.40	126.48		n/a	1.0
185622-6	6.43	25	0.00	2.30	85.56		n/a	1.0
185622-8	6.82	25	0.00	7.50	279.00		n/a	1.0
185622-9	7.11	25	0.00	7.75	288.30		n/a	1.0
185622-10	7.27	25	0.00	8.80	327.36		n/a	1.0
185622-11	7.05	25	0.00	7.30	271.56		n/a	1.0
185622-12	7.14	25	0.00	8.10	301.32		n/a	1.0
185622-13	6.73	25	0.00	4.05	150.66		n/a	1.0
185622-14	6.78	25	0.00	6.80	252.96		n/a	1.0
185622-15	8.00	25	0.00	12.30	457.56		n/a	1.0
185622-16	6.70	25	0.00	7.00	260.40		n/a	1.0
185622-17	7.44	25	0.00	6.05	225.06		n/a	1.0

QC DATA	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alk Vol (mL)	**Low Alk** as $CaCO_3$ (mg/L)	RL (mg/L)	% Rec.	% RPD
MB	5.33	25	0.00	0.00	ND			1.0		
LCS	9.24	25	2.10	5.10	189.72			1.0	95	
185622-17	7.44	25	0.00	6.05	225.06		n/a	1.0		
MS	8.7	25	1.05	11.10	412.92			1.0	94	
MSD	8.7	25	0.85	10.95	407.34			1.0	91	1

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	25	80 - 120

Reviewed by/ Date: PSeiffa 3-31-06

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Curtis Tompkins, Ltd.

Template: F:\inorgan\wetstuff\alkalinity.xls
Ver.8.3, Effective 6/03/04

Analysis: **Alkalinity** Analysis Date: 03/30/06 H_2SO_4 Normality = 0.0186

Method: **EPA 310.1** Batch No: 111870 Analyst: JKS

SAMPLE	(P)	(T-P)	Total Alkalinty as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity	Carbonate Alkalinity	Hydroxide Alkalinity
				as $CaCO_3$ (mg/L)		
185763-2	0.0	1404.3	1404.3	1404.300	0.000	0.000
185763-3	0.0	1484.3	1484.28	1484.280	0.000	0.000
185763-4	0.0	1904.6	1904.64	1904.640	0.000	0.000
185763-5	0.0	1270.4	1270.38	1270.380	0.000	0.000
185622-1	0.0	524.5	524.52	524.520	0.000	0.000
185622-2	0.0	788.6	788.64	788.640	0.000	0.000
185622-3	0.0	152.5	152.52	152.520	0.000	0.000
185622-4	0.0	293.9	293.88	293.880	0.000	0.000
185622-5	0.0	126.5	126.48	126.480	0.000	0.000
185622-6	0.0	85.6	85.56	85.560	0.000	0.000
185622-8	0.0	279.0	279	279.000	0.000	0.000
185622-9	0.0	288.3	288.3	288.300	0.000	0.000
185622-10	0.0	327.4	327.36	327.360	0.000	0.000
185622-11	0.0	271.6	271.56	271.560	0.000	0.000
185622-12	0.0	301.3	301.32	301.320	0.000	0.000
185622-13	0.0	150.7	150.66	150.660	0.000	0.000
185622-14	0.0	253.0	252.96	252.960	0.000	0.000
185622-15	0.0	457.6	457.56	457.560	0.000	0.000
185622-16	0.0	260.4	260.4	260.400	0.000	0.000
185622-17	0.0	225.1	225.06	225.060	0.000	0.000

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P: Phenolphthalein Alkalinity (using volume to pH 8.3)
T-P: Total Alkalinity minus Phenolphthalein Alkalinity

Carbonate Alkalinity = 2x the smaller of P or (T-P)
Bicarbonate Alkalinity = (T-2P) when P < (T-P)
Hydroxide Alkalinity = (2P-T) when (T-P) < P

Analysis: **Alkalinity** Analysis Date: 03/30/06 H_2SO_4 Normality = 0.0186
Method: **EPA 310.1** Batch No: 111870 Analyst: JKS

SAMPLE	**Total Alkalinty** as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity **as HCO_3^- (mg/L)**	Carbonate Alkalinity **as CO_3^{2-} (mg/L)**	Hydroxide Alkalinity **as OH^- (mg/L)**
185763-2	1404.3	1712.19	0.000	0.00
185763-3	1484.28	1809.70	0.000	0.00
185763-4	1904.64	2322.23	0.000	0.00
185763-5	1270.38	1548.91	0.000	0.00
185622-1	524.52	639.52	0.000	0.00
185622-2	788.64	961.55	0.000	0.00
185622-3	152.52	185.96	0.000	0.00
185622-4	293.88	358.31	0.000	0.00
185622-5	126.48	154.21	0.000	0.00
185622-6	85.56	104.32	0.000	0.00
185622-8	279	340.17	0.000	0.00
185622-9	288.3	351.51	0.000	0.00
185622-10	327.36	399.13	0.000	0.00
185622-11	271.56	331.10	0.000	0.00
185622-12	301.32	367.38	0.000	0.00
185622-13	150.66	183.69	0.000	0.00
185622-14	252.96	308.42	0.000	0.00
185622-15	457.56	557.88	0.000	0.00
185622-16	260.4	317.49	0.000	0.00
185622-17	225.06	274.40	0.000	0.00

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Alkalinity Benchbook EPA 310.1 / SMWW 2320B Curtis & Tompkins, Ltd.

LIMS Batch #: 111870 Date: 3-30-6 Benchbook#: **BK 2255**
Matrix: Water Time: 11:00 Page: **23**

CAL-ph 4.0: SS#: 055514
CAL-ph 7.0: SS#: 5177
CAL-ph 10.0: SS#: 51169
Slope: 99.1
(slope limits: 92 - 102)

$CaCO_3$ Vol (mgL) Spiked: 5ml
$CaCO_3$ Conc (mg/L): 1000
$CaCO_3$ WS#: 51576
H_2SO_4 Normality: 0.0186
H_2SO_4 Reagent ID: 7-27-6

Sample # / Letter	Sample Vol. Titrated (mL)	Initial pH (S.U.)	H_2SO_4 Vol (mL) to pH 8.3	H_2SO_4 Vol (mL) to pH 4.5 *	Low Alk TotalVol (mL)	Comments
MB	25	5.33	—	<0.05		
LCS		9.24	2.10	5.10		
185763-2J		6.97	—	37.75		
-3		6.76	—	39.90		
-4		6.74	—	51.20		
-5		6.90	—	34.15		
185622-1E		7.80	—	14.10		
-2E		7.23	—	21.20		
-3G		6.91	—	4.10		
-4G		7.27	—	7.90		
-5G		6.56	—	3.40		
-6G		6.43	—	2.30		
-8C		6.82	—	7.50		
-9K		7.11	—	7.75		
-10K		7.27	—	8.80		
-11K		7.05	—	7.30		
-12K		7.14	—	8.10		
-13E		6.73	—	4.05		
-14E		6.78	—	6.80		
-15K		8.00	—	12.30		
-16F		6.70	—	7.00		
-17C 3-30-06		7.44	—	6.05		
~~-18~~ 17C MS		8.70	1.05	11.10		
-17C MSD		8.70	0.85	10.95		

* If Acid Vol to 4.5 is < 2.0mL, redo using 100mL sample volume. If still < 2.0mL, go on to Low Alkalinity.

Jason Greene 3-30-6
Analyst / Date

RSCliffe 3/30/06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111870
Date Started: 30-MAR-2006
Batched by : Jason K. Spence

Analysis : ALKALINITY
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185622-001			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-002			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-003			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-004			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-005			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-006			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-008			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-009			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-010			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-011			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-012			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-013			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-014			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-015			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-016			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-017			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185763-002			Geomatrix Consulta	Water	ALKALINITY	29-MAR-2006
185763-003			Geomatrix Consulta	Water	ALKALINITY	29-MAR-2006
185763-004			Geomatrix Consulta	Water	ALKALINITY	29-MAR-2006
185763-005			Geomatrix Consulta	Water	ALKALINITY	29-MAR-2006
QC333778	BLANK			Water	ALKALINITY	
QC333779	LCS			Water	ALKALINITY	
QC333780	MS	of 185622-017		Water	ALKALINITY	
QC333781	MSD	of 185622-017		Water	ALKALINITY	

Analysis: **Alkalinity** Analysis Date: **03/30/06** H_2SO_4 Normality = **0.0186**

Method: **EPA 310.1** / SMWW 2320B Batch No: **111884** conc.(mg/L) Na_2CO_3 for QC = **200**

SOP#: Alkalinity_rv 6.doc Analyst: JKS

SAMPLE	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alkalinity Volume (4.5-4.2) (mL)	**Low Alkalinity** as $CaCO_3$ (mg/L)	Reporting Limit (mg/L)
185622-18	7.89	25	0.00	8.80	327.36		n/a	1.0
185622-20	6.89	25	0.00	23.40	870.48		n/a	1.0
185622-21	7.22	25	0.00	21.60	803.52		n/a	1.0
185622-22	7.36	25	0.00	9.05	336.66		n/a	1.0
185622-23	7.24	25	0.00	5.50	204.60		n/a	1.0
185622-24	6.65	25	0.00	8.30	308.76		n/a	1.0
185622-25	7.75	25	0.00	11.80	438.96		n/a	1.0
185622-26	6.59	25	0.00	25.00	930.00		n/a	1.0
185622-27	7.83	25	0.00	8.95	332.94		n/a	1.0
185622-28	6.55	25	0.00	6.60	245.52		n/a	1.0
185622-29	7.00	25	0.00	12.20	453.84		n/a	1.0
185622-30	6.98	25	0.00	11.40	424.08		n/a	1.0
185622-31	6.92	25	0.00	7.00	260.40		n/a	1.0
185622-33	7.22	25	0.00	5.95	221.34		n/a	1.0
185622-34	7.11	25	0.00	5.80	215.76		n/a	1.0
185622-35	6.13	100	0.00	0.400	rpt low alk	0.500	2.790	1.0
185622-36	6.97	25	0.00	8.35	310.62		n/a	1.0
185622-37	7.05	25	0.00	8.70	323.64		n/a	1.0
185644-2	9.98	25	25.90	153.40	5706.48		n/a	1.0

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QC DATA	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alk Vol (mL)	**Low Alk** as $CaCO_3$ (mg/L)	RL (mg/L)	% Rec.	% RPD
MB	5.64	25	0.00	0.00	ND			1.0		
LCS	9.91	25	2.05	5.15	191.58			1.0	96	
185622-23	7.24	25	0.00	5.50	204.60		n/a	1.0		
MS	8.18	25	0.00	10.00	372.00			1.0	84	
MSD	8.22	25	0.00	10.15	377.58			1.0	86	1

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	25	80 - 120

Reviewed by/ Date: RSchiffer 3-31-06

Method: **EPA 310.1** Batch No: 111884 Analyst: JKS

SAMPLE	(P)	(T-P)	Total Alkalinty as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity	Carbonate Alkalinity	Hydroxide Alkalinity
				as $CaCO_3$ (mg/L)		
185622-18	0.0	327.4	327.36	327.360	0.000	0.000
185622-20	0.0	870.5	870.48	870.480	0.000	0.000
185622-21	0.0	803.5	803.52	803.520	0.000	0.000
185622-22	0.0	336.7	336.66	336.660	0.000	0.000
185622-23	0.0	204.6	204.6	204.600	0.000	0.000
185622-24	0.0	308.8	308.76	308.760	0.000	0.000
185622-25	0.0	439.0	438.96	438.960	0.000	0.000
185622-26	0.0	930.0	930	930.000	0.000	0.000
185622-27	0.0	332.9	332.94	332.940	0.000	0.000
185622-28	0.0	245.5	245.52	245.520	0.000	0.000
185622-29	0.0	453.8	453.84	453.840	0.000	0.000
185622-30	0.0	424.1	424.08	424.080	0.000	0.000
185622-31	0.0	260.4	260.4	260.400	0.000	0.000
185622-33	0.0	221.3	221.34	221.340	0.000	0.000
185622-34	0.0	215.8	215.76	215.760	0.000	0.000
185622-35	0.0	#VALUE!	2.79	not applicable	not applicable	not applicable
185622-36	0.0	310.6	310.62	310.620	0.000	0.000
185622-37	0.0	323.6	323.64	323.640	0.000	0.000
185644-2	963.5	4743.0	5706.48	3779.520	1926.960	0.000

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P: Phenolphthalein Alkalinity (using volume to pH 8.3)
T-P: Total Alkalinity minus Phenolphthalein Alkalinity

Carbonate Alkalinity = 2x the smaller of P or (T-P)
Bicarbonate Alkalinity = (T-2P) when P < (T-P)
Hydroxide Alkalinity = (2P-T) when (T-P) < P

Analysis: **Alkalinity** Analysis Date: 03/30/06 H_2SO_4 Normality = 0.0186

Method: **EPA 310.1** Batch No: 111884 Analyst: JKS

SAMPLE	Total Alkalinty as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity as HCO_3^- (mg/L)	Carbonate Alkalinity as CO_3^{2-} (mg/L)	Hydroxide Alkalinity as OH^- (mg/L)
185622-18	327.36	399.13	0.000	0.00
185622-20	870.48	1061.33	0.000	0.00
185622-21	803.52	979.69	0.000	0.00
185622-22	336.66	410.47	0.000	0.00
185622-23	204.6	249.46	0.000	0.00
185622-24	308.76	376.45	0.000	0.00
185622-25	438.96	535.20	0.000	0.00
185622-26	930	1133.90	0.000	0.00
185622-27	332.94	405.94	0.000	0.00
185622-28	245.52	299.35	0.000	0.00
185622-29	453.84	553.34	0.000	0.00
185622-30	424.08	517.06	0.000	0.00
185622-31	260.4	317.49	0.000	0.00
185622-33	221.34	269.87	0.000	0.00
185622-34	215.76	263.06	0.000	0.00
185622-35	2.79	not applicable	not applicable	not applicable
185622-36	310.62	378.72	0.000	0.00
185622-37	323.64	394.60	0.000	0.00
185644-2	5706.48	4608.17	1155.540	0.00

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Alkalinity Benchbook EPA 310.1 / SMWW 2320B Curtis & Tompkins, Ltd.

LIMS Batch #: 111884 Date: 3-30-6 Benchbook#: **BK 2255**
Matrix: Water Time: 16:00 Page: **24**

CAL-ph 4.0: SS#: 055514 $CaCO_3$ Vol (mgL) Spiked: 5ml
CAL-ph 7.0: SS#: S177 $CaCO_3$ Conc (mg/L): 1000
CAL-ph 10.0: SS#: S1169 $CaCO_3$ WS#: S1576
Slope: 99.1 H_2SO_4 Normality: 0.0186
(slope limits: 92 - 102) H_2SO_4 Reagent ID: 7-27-6

Sample # / Letter	Sample Vol. Titrated (mL)	Initial pH (S.U.)	H_2SO_4 Vol (mL) to pH 8.3	H_2SO_4 Vol (mL) to pH 4.5 *	Low Alk TotalVol (mL)	Comments
MB	25	5.64	–	<0.05		
LCS 3-30-6	↓	9.91	2.05	5.15		
185622-18 AC	↓	7.89	–	8.80		
~~-19 26~~ 3-30-6	—	—	—	—		
-20 I	25	~~6.59~~ 6.89	–	~~25.00~~ 23.40		
-21 I	↓	7.22	–	21.60		
-22 H	↓	7.36	–	9.05		
-23 E	↓	7.24	–	5.50		
-24 H	↓	6.65	–	8.30		
-25 H	↓	7.75	–	11.80		
-26 G	↓	6.59	–	25.00		
-27 H	↓	7.83	–	8.95		
-28 E	↓	6.55	–	6.60		
-29 E	↓	7.00	–	12.20		
-30 H	↓	6.98	–	11.40		
-31 E	↓	6.92	–	7.00		
-33 G	↓	7.22	–	5.95		
-34 G	↓	7.11	–	5.80		
-35 G	100	6.13	–	0.400 (pH=4.57)	0.500 (pH=4.20)	
-36 H	25	6.97	–	8.35		
-37 H	↓	7.05	–	8.70		
185664-2 D	↓	9.98	~~26.40~~ 25.90	153.40		
~~185679-2~~ 185622-23 MS	↓	~~8.18~~ 7.18	8.18	10.00		
~~0~~ 185622-23 MSD 3-30-6	↓	~~8.22~~ 7.22	8.22	10.15		

* If Acid Vol to 4.5 is < 2.0mL, redo using 100mL sample volume. If still < 2.0mL, go on to Low Alkalinity.

Jason Apen 3-30-6
Analyst / Date

RSCiFFa 3/30/06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111884
Date Started: 30-MAR-2006
Batched by : Jason K. Spence

Analysis : ALKALINITY
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185622-018			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-020			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-021			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-022			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-023			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-024			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-025			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-026			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-027			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-028			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-029			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-030			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-031			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-033			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-034			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-035			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-036			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185622-037			Treadwell & Rollo	Water	ALKALINITY	29-MAR-2006
185664-002			New Logic Research	Water	ALKALINITY	31-MAR-2006
QC333824	BLANK			Water	ALKALINITY	
QC333825	LCS			Water	ALKALINITY	
QC333826	MS	of 185622-023		Water	ALKALINITY	
QC333827	MSD	of 185622-023		Water	ALKALINITY	

Curtis & Tompkins, Ltd.

Chloride

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Units:	mg/L
Matrix:	Water	Received:	03/17/06

Field ID	Type	Lab ID	Result	RL	Diln Fac	Batch#	Sampled	Analyzed
BHWGW01	SAMPLE	185622-001	210	5.0	25.00	111464	03/16/06 10:15	03/17/06 22:43
BHWGW05	SAMPLE	185622-002	100	5.0	25.00	111464	03/16/06 09:20	03/18/06 02:48
LF08GW02B	SAMPLE	185622-003	44	1.0	5.000	111464	03/16/06 14:00	03/18/06 04:16
LF08GW03	SAMPLE	185622-004	72	2.0	10.00	111464	03/16/06 15:15	03/18/06 04:34
LF08GW04	SAMPLE	185622-005	30	1.0	5.000	111464	03/16/06 11:45	03/18/06 04:51
DUP0316064A	SAMPLE	185622-006	30	1.0	5.000	111464	03/16/06	03/18/06 00:11
LF01GW02	SAMPLE	185622-008	100	2.0	10.00	111464	03/16/06 16:10	03/18/06 02:31
231GW26	SAMPLE	185622-009	44	2.0	10.00	111464	03/16/06 14:10	03/18/06 01:38
231GW24	SAMPLE	185622-010	30	2.0	10.00	111464	03/16/06 12:20	03/18/06 05:09
231GW19	SAMPLE	185622-011	32	2.0	10.00	111464	03/16/06 10:55	03/18/06 05:26
231GW29	SAMPLE	185622-012	53	2.0	10.00	111464	03/16/06 10:10	03/18/06 05:44
BB3PZ101	SAMPLE	185622-013	91	2.0	10.00	111464	03/16/06 10:30	03/18/06 01:21
BB3GW100	SAMPLE	185622-014	220	5.0	25.00	111464	03/16/06 11:15	03/18/06 01:03
207GW03	SAMPLE	185622-015	150	5.0	25.00	111464	03/16/06 13:50	03/18/06 06:01
1065MW10A	SAMPLE	185622-016	55	2.0	10.00	111464	03/16/06 14:50	03/18/06 01:56
LF02GW01	SAMPLE	185622-017	76	2.0	10.00	111464	03/16/06 15:40	03/18/06 02:13
EPSP01	SAMPLE	185622-018	85	2.0	10.00	111462	03/16/06 16:10	03/18/06 04:49
DAEGW101	SAMPLE	185622-020	19	0.20	1.000	111462	03/16/06 10:30	03/17/06 18:41
DAEGW102	SAMPLE	185622-021	370	10	50.00	111462	03/16/06 12:20	03/17/06 19:00
DAEGW104	SAMPLE	185622-022	72	2.0	10.00	111462	03/16/06 11:18	03/18/06 04:12
DAEGW06	SAMPLE	185622-023	140	2.0	10.00	111462	03/16/06 09:12	03/18/06 05:07
1349MW01	SAMPLE	185622-024	850	10	50.00	111462	03/16/06 13:52	03/17/06 19:55
1349MW03R	SAMPLE	185622-025	860	10	50.00	111462	03/16/06 14:48	03/17/06 20:13
1349MW100	SAMPLE	185622-026	760	10	50.00	111462	03/16/06 16:15	03/17/06 20:32
1349MW101	SAMPLE	185622-027	180	5.0	25.00	111462	03/16/06 16:15	03/18/06 04:31
LF10GW03	SAMPLE	185622-028	64	2.0	10.00	111462	03/17/06 10:20	03/18/06 09:25
LF10GW100	SAMPLE	185622-029	44	5.0	25.00	111462	03/17/06 09:40	03/18/06 10:57
LF6GW101	SAMPLE	185622-030	44	2.0	10.00	111462	03/17/06 09:28	03/18/06 11:16
LF6GW104	SAMPLE	185622-031	33	5.0	25.00	111462	03/17/06 10:30	03/18/06 11:34
LF08GW01	SAMPLE	185622-033	240	5.0	25.00	111462	03/17/06 10:15	03/18/06 11:52
LF08GW06	SAMPLE	185622-034	140	5.0	25.00	111462	03/17/06 08:55	03/18/06 12:11
LF08GW06RB01	SAMPLE	185622-035	ND	0.20	1.000	111462	03/17/06 09:15	03/18/06 06:39
LF6GW100	SAMPLE	185622-036	34	1.0	5.000	111462	03/17/06 09:40	03/18/06 12:29
LF6GW103	SAMPLE	185622-037	41	2.0	10.00	111462	03/17/06 10:55	03/18/06 12:48
	BLANK	QC332159	ND	0.20	1.000	111462		03/17/06 15:14
	BLANK	QC332168	ND	0.20	1.000	111464		03/17/06 15:33

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Fluoride

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Diln Fac:	1.000
Matrix:	Water	Received:	03/17/06
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Batch#	Sampled	Analyzed
BHWGW01	SAMPLE	185622-001	0.11	0.10	111464	03/16/06 10:15	03/17/06 18:56
BHWGW05	SAMPLE	185622-002	0.13	0.10	111464	03/16/06 09:20	03/17/06 18:38
LF08GW02B	SAMPLE	185622-003	ND	0.10	111464	03/16/06 14:00	03/17/06 18:21
LF08GW03	SAMPLE	185622-004	ND	0.10	111464	03/16/06 15:15	03/17/06 18:03
LF08GW04	SAMPLE	185622-005	ND	0.10	111464	03/16/06 11:45	03/17/06 17:46
DUP0316064A	SAMPLE	185622-006	ND	0.10	111464	03/16/06	03/17/06 17:28
LF01GW02	SAMPLE	185622-008	ND	0.10	111464	03/16/06 16:10	03/17/06 22:26
231GW26	SAMPLE	185622-009	ND	0.10	111464	03/16/06 14:10	03/17/06 21:33
231GW24	SAMPLE	185622-010	ND	0.10	111464	03/16/06 12:20	03/17/06 20:58
231GW19	SAMPLE	185622-011	0.17	0.10	111464	03/16/06 10:55	03/17/06 20:23
231GW29	SAMPLE	185622-012	ND	0.10	111464	03/16/06 10:10	03/17/06 19:13
BB3PZ101	SAMPLE	185622-013	ND	0.10	111464	03/16/06 10:30	03/17/06 20:06
BB3GW100	SAMPLE	185622-014	ND	0.10	111464	03/16/06 11:15	03/17/06 20:41
207GW03	SAMPLE	185622-015	0.29	0.10	111464	03/16/06 13:50	03/17/06 21:16
1065MW10A	SAMPLE	185622-016	ND	0.10	111464	03/16/06 14:50	03/17/06 21:51
LF02GW01	SAMPLE	185622-017	ND	0.10	111464	03/16/06 15:40	03/17/06 22:08
EPSP01	SAMPLE	185622-018	ND	0.10	111462	03/16/06 16:10	03/17/06 18:23
DAEGW101	SAMPLE	185622-020	ND	0.10	111462	03/16/06 10:30	03/17/06 18:41
DAEGW102	SAMPLE	185622-021	0.56	0.10	111462	03/16/06 12:20	03/17/06 22:04
DAEGW104	SAMPLE	185622-022	0.27	0.10	111462	03/16/06 11:18	03/17/06 22:22
DAEGW06	SAMPLE	185622-023	0.24	0.10	111462	03/16/06 09:12	03/17/06 21:46
1349MW01	SAMPLE	185622-024	ND	0.10	111462	03/16/06 13:52	03/18/06 00:13
1349MW03R	SAMPLE	185622-025	ND	0.10	111462	03/16/06 14:48	03/18/06 01:26
1349MW100	SAMPLE	185622-026	0.24	0.10	111462	03/16/06 16:15	03/18/06 03:17
1349MW101	SAMPLE	185622-027	ND	0.10	111462	03/16/06 16:15	03/17/06 22:41
LF10GW03	SAMPLE	185622-028	ND	0.10	111462	03/17/06 10:20	03/18/06 06:58
LF10GW100	SAMPLE	185622-029	ND	0.10	111462	03/17/06 09:40	03/18/06 07:16
LF6GW101	SAMPLE	185622-030	ND	0.10	111462	03/17/06 09:28	03/18/06 07:35
LF6GW104	SAMPLE	185622-031	ND	0.10	111462	03/17/06 10:30	03/18/06 07:53
LF08GW01	SAMPLE	185622-033	0.17	0.10	111462	03/17/06 10:15	03/18/06 08:11
LF08GW06	SAMPLE	185622-034	0.24	0.10	111462	03/17/06 08:55	03/18/06 08:30
LF08GW06RB01	SAMPLE	185622-035	ND	0.10	111462	03/17/06 09:15	03/18/06 06:39
LF6GW100	SAMPLE	185622-036	0.11	0.10	111462	03/17/06 09:40	03/18/06 08:48
LF6GW103	SAMPLE	185622-037	ND	0.10	111462	03/17/06 10:55	03/18/06 09:07
	BLANK	QC332159	ND	0.10	111462		03/17/06 15:14
	BLANK	QC332168	ND	0.10	111464		03/17/06 15:33

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrate Nitrogen

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Units:	mg/L
Matrix:	Water	Received:	03/17/06

Field ID	Type	Lab ID	Result	RL	Diln Fac	Batch#	Sampled	Analyzed
BHWGW01	SAMPLE	185622-001	5.2	1.3	25.00	111464	03/16/06 10:15	03/17/06 22:43
BHWGW05	SAMPLE	185622-002	ND	0.05	1.000	111464	03/16/06 09:20	03/17/06 18:38
LF08GW02B	SAMPLE	185622-003	4.5	0.05	1.000	111464	03/16/06 14:00	03/17/06 18:21
LF08GW03	SAMPLE	185622-004	4.4	0.05	1.000	111464	03/16/06 15:15	03/17/06 18:03
LF08GW04	SAMPLE	185622-005	1.6	0.05	1.000	111464	03/16/06 11:45	03/17/06 17:46
DUP0316064A	SAMPLE	185622-006	1.5	0.05	1.000	111464	03/16/06	03/17/06 17:28
LF01GW02	SAMPLE	185622-008	10	0.50	10.00	111464	03/16/06 16:10	03/18/06 02:31
231GW26	SAMPLE	185622-009	3.2	0.05	1.000	111464	03/16/06 14:10	03/17/06 21:33
231GW24	SAMPLE	185622-010	0.06	0.05	1.000	111464	03/16/06 12:20	03/17/06 20:58
231GW19	SAMPLE	185622-011	ND	0.05	1.000	111464	03/16/06 10:55	03/17/06 20:23
231GW29	SAMPLE	185622-012	1.0	0.05	1.000	111464	03/16/06 10:10	03/17/06 19:13
BB3PZ101	SAMPLE	185622-013	14	0.50	10.00	111464	03/16/06 10:30	03/18/06 01:21
BB3GW100	SAMPLE	185622-014	8.1	1.3	25.00	111464	03/16/06 11:15	03/18/06 01:03
207GW03	SAMPLE	185622-015	ND	0.05	1.000	111464	03/16/06 13:50	03/17/06 21:16
1065MW10A	SAMPLE	185622-016	ND	0.05	1.000	111464	03/16/06 14:50	03/17/06 21:51
LF02GW01	SAMPLE	185622-017	0.90	0.05	1.000	111464	03/16/06 15:40	03/17/06 22:08
EPSP01	SAMPLE	185622-018	1.1	0.05	1.000	111462	03/16/06 16:10	03/17/06 18:23
DAEGW101	SAMPLE	185622-020	ND	0.05	1.000	111462	03/16/06 10:30	03/17/06 18:41
DAEGW102	SAMPLE	185622-021	0.11	0.05	1.000	111462	03/16/06 12:20	03/17/06 22:04
DAEGW104	SAMPLE	185622-022	ND	0.05	1.000	111462	03/16/06 11:18	03/17/06 22:22
DAEGW06	SAMPLE	185622-023	ND	0.05	1.000	111462	03/16/06 09:12	03/17/06 21:46
1349MW01	SAMPLE	185622-024	1.7	0.05	1.000	111462	03/16/06 13:52	03/18/06 00:13
1349MW03R	SAMPLE	185622-025	6.3	0.10	2.000	111462	03/16/06 14:48	03/18/06 02:03
1349MW100	SAMPLE	185622-026	ND	0.05	1.000	111462	03/16/06 16:15	03/18/06 03:17
1349MW101	SAMPLE	185622-027	2.8	0.05	1.000	111462	03/16/06 16:15	03/17/06 22:41
LF10GW03	SAMPLE	185622-028	8.1	0.50	10.00	111462	03/17/06 10:20	03/18/06 09:25
LF10GW100	SAMPLE	185622-029	36	1.3	25.00	111462	03/17/06 09:40	03/18/06 10:57
LF6GW101	SAMPLE	185622-030	0.64	0.05	1.000	111462	03/17/06 09:28	03/18/06 07:35
LF6GW104	SAMPLE	185622-031	6.9	1.3	25.00	111462	03/17/06 10:30	03/18/06 11:34
LF08GW01	SAMPLE	185622-033	1.1	0.05	1.000	111462	03/17/06 10:15	03/18/06 08:11
LF08GW06	SAMPLE	185622-034	1.1	0.05	1.000	111462	03/17/06 08:55	03/18/06 08:30
LF08GW06RB01	SAMPLE	185622-035	ND	0.05	1.000	111462	03/17/06 09:15	03/18/06 06:39
LF6GW100	SAMPLE	185622-036	0.42	0.05	1.000	111462	03/17/06 09:40	03/18/06 08:48
LF6GW103	SAMPLE	185622-037	2.4	0.05	1.000	111462	03/17/06 10:55	03/18/06 09:07
	BLANK	QC332159	ND	0.05	1.000	111462		03/17/06 15:14
	BLANK	QC332168	ND	0.05	1.000	111464		03/17/06 15:33

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrite Nitrogen

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Units:	mg/L
Matrix:	Water	Received:	03/17/06

Field ID	Type	Lab ID	Result	RL	Diln Fac	Batch#	Sampled	Analyzed
BHWGW01	SAMPLE	185622-001	ND	0.05	1.000	111464	03/16/06 10:15	03/17/06 18:56
BHWGW05	SAMPLE	185622-002	ND	0.05	1.000	111464	03/16/06 09:20	03/17/06 18:38
LF08GW02B	SAMPLE	185622-003	ND	0.05	1.000	111464	03/16/06 14:00	03/17/06 18:21
LF08GW03	SAMPLE	185622-004	ND	0.05	1.000	111464	03/16/06 15:15	03/17/06 18:03
LF08GW04	SAMPLE	185622-005	ND	0.05	1.000	111464	03/16/06 11:45	03/17/06 17:46
DUP0316064A	SAMPLE	185622-006	ND	0.05	1.000	111464	03/16/06	03/17/06 17:28
LF01GW02	SAMPLE	185622-008	ND	0.05	1.000	111464	03/16/06 16:10	03/17/06 22:26
231GW26	SAMPLE	185622-009	ND	0.05	1.000	111464	03/16/06 14:10	03/17/06 21:33
231GW24	SAMPLE	185622-010	ND	0.05	1.000	111464	03/16/06 12:20	03/17/06 20:58
231GW19	SAMPLE	185622-011	ND	0.05	1.000	111464	03/16/06 10:55	03/17/06 20:23
231GW29	SAMPLE	185622-012	ND	0.05	1.000	111464	03/16/06 10:10	03/17/06 19:13
BB3PZ101	SAMPLE	185622-013	ND	0.05	1.000	111464	03/16/06 10:30	03/17/06 20:06
BB3GW100	SAMPLE	185622-014	ND	0.05	1.000	111464	03/16/06 11:15	03/17/06 20:41
207GW03	SAMPLE	185622-015	ND	0.05	1.000	111464	03/16/06 13:50	03/17/06 21:16
1065MW10A	SAMPLE	185622-016	ND	0.05	1.000	111464	03/16/06 14:50	03/17/06 21:51
LF02GW01	SAMPLE	185622-017	ND	0.05	1.000	111464	03/16/06 15:40	03/17/06 22:08
EPSP01	SAMPLE	185622-018	ND	0.05	1.000	111462	03/16/06 16:10	03/17/06 18:23
DAEGW101	SAMPLE	185622-020	ND	0.05	1.000	111462	03/16/06 10:30	03/17/06 18:41
DAEGW102	SAMPLE	185622-021	ND	0.05	1.000	111462	03/16/06 12:20	03/17/06 22:04
DAEGW104	SAMPLE	185622-022	ND	0.05	1.000	111462	03/16/06 11:18	03/17/06 22:22
DAEGW06	SAMPLE	185622-023	ND	0.05	1.000	111462	03/16/06 09:12	03/17/06 21:46
1349MW01	SAMPLE	185622-024	ND	0.10	2.000	111462	03/16/06 13:52	03/18/06 00:50
1349MW03R	SAMPLE	185622-025	ND	0.10	2.000	111462	03/16/06 14:48	03/18/06 02:03
1349MW100	SAMPLE	185622-026	ND	0.10	2.000	111462	03/16/06 16:15	03/18/06 02:40
1349MW101	SAMPLE	185622-027	ND	0.05	1.000	111462	03/16/06 16:15	03/17/06 22:41
LF10GW03	SAMPLE	185622-028	ND	0.05	1.000	111462	03/17/06 10:20	03/18/06 06:58
LF10GW100	SAMPLE	185622-029	ND	0.05	1.000	111462	03/17/06 09:40	03/18/06 07:16
LF6GW101	SAMPLE	185622-030	ND	0.05	1.000	111462	03/17/06 09:28	03/18/06 07:35
LF6GW104	SAMPLE	185622-031	ND	0.05	1.000	111462	03/17/06 10:30	03/18/06 07:53
LF08GW01	SAMPLE	185622-033	ND	0.05	1.000	111462	03/17/06 10:15	03/18/06 08:11
LF08GW06	SAMPLE	185622-034	ND	0.05	1.000	111462	03/17/06 08:55	03/18/06 08:30
LF08GW06RB01	SAMPLE	185622-035	ND	0.05	1.000	111462	03/17/06 09:15	03/18/06 06:39
LF6GW100	SAMPLE	185622-036	ND	0.05	1.000	111462	03/17/06 09:40	03/18/06 08:48
LF6GW103	SAMPLE	185622-037	ND	0.05	1.000	111462	03/17/06 10:55	03/18/06 09:07
	BLANK	QC332159	ND	0.05	1.000	111462		03/17/06 15:14
	BLANK	QC332168	ND	0.05	1.000	111464		03/17/06 15:33

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Sulfate

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Units:	mg/L
Matrix:	Water	Received:	03/17/06

Field ID	Type	Lab ID	Result	RL	Diln Fac	Batch#	Sampled	Analyzed
BHWGW01	SAMPLE	185622-001	66	13	25.00	111464	03/16/06 10:15	03/17/06 22:43
BHWGW05	SAMPLE	185622-002	87	13	25.00	111464	03/16/06 09:20	03/18/06 02:48
LF08GW02B	SAMPLE	185622-003	29	0.50	1.000	111464	03/16/06 14:00	03/17/06 18:21
LF08GW03	SAMPLE	185622-004	49	0.50	1.000	111464	03/16/06 15:15	03/17/06 18:03
LF08GW04	SAMPLE	185622-005	17	0.50	1.000	111464	03/16/06 11:45	03/17/06 17:46
DUP0316064A	SAMPLE	185622-006	17	0.50	1.000	111464	03/16/06	03/17/06 17:28
LF01GW02	SAMPLE	185622-008	50	5.0	10.00	111464	03/16/06 16:10	03/18/06 02:31
231GW26	SAMPLE	185622-009	63	5.0	10.00	111464	03/16/06 14:10	03/18/06 01:38
231GW24	SAMPLE	185622-010	40	0.50	1.000	111464	03/16/06 12:20	03/17/06 20:58
231GW19	SAMPLE	185622-011	38	0.50	1.000	111464	03/16/06 10:55	03/17/06 20:23
231GW29	SAMPLE	185622-012	69	5.0	10.00	111464	03/16/06 10:10	03/18/06 05:44
BB3PZ101	SAMPLE	185622-013	43	0.50	1.000	111464	03/16/06 10:30	03/17/06 20:06
BB3GW100	SAMPLE	185622-014	49	13	25.00	111464	03/16/06 11:15	03/18/06 01:03
207GW03	SAMPLE	185622-015	1.7	0.50	1.000	111464	03/16/06 13:50	03/17/06 21:16
1065MW10A	SAMPLE	185622-016	45	0.50	1.000	111464	03/16/06 14:50	03/17/06 21:51
LF02GW01	SAMPLE	185622-017	17	0.50	1.000	111464	03/16/06 15:40	03/17/06 22:08
EPSP01	SAMPLE	185622-018	17	0.50	1.000	111462	03/16/06 16:10	03/17/06 18:23
DAEGW101	SAMPLE	185622-020	87	2.5	5.000	111462	03/16/06 10:30	03/17/06 20:50
DAEGW102	SAMPLE	185622-021	240	25	50.00	111462	03/16/06 12:20	03/17/06 19:00
DAEGW104	SAMPLE	185622-022	11	0.50	1.000	111462	03/16/06 11:18	03/17/06 22:22
DAEGW06	SAMPLE	185622-023	7.6	0.50	1.000	111462	03/16/06 09:12	03/17/06 21:46
1349MW01	SAMPLE	185622-024	300	25	50.00	111462	03/16/06 13:52	03/17/06 19:55
1349MW03R	SAMPLE	185622-025	120	25	50.00	111462	03/16/06 14:48	03/17/06 20:13
1349MW100	SAMPLE	185622-026	50	1.0	2.000	111462	03/16/06 16:15	03/18/06 02:40
1349MW101	SAMPLE	185622-027	16	0.50	1.000	111462	03/16/06 16:15	03/17/06 22:41
LF10GW03	SAMPLE	185622-028	83	5.0	10.00	111462	03/17/06 10:20	03/18/06 09:25
LF10GW100	SAMPLE	185622-029	280	13	25.00	111462	03/17/06 09:40	03/18/06 10:57
LF6GW101	SAMPLE	185622-030	50	5.0	10.00	111462	03/17/06 09:28	03/18/06 11:16
LF6GW104	SAMPLE	185622-031	270	13	25.00	111462	03/17/06 10:30	03/18/06 11:34
LF08GW01	SAMPLE	185622-033	41	0.50	1.000	111462	03/17/06 10:15	03/18/06 08:11
LF08GW06	SAMPLE	185622-034	78	13	25.00	111462	03/17/06 08:55	03/18/06 12:11
LF08GW06RB01	SAMPLE	185622-035	ND	0.50	1.000	111462	03/17/06 09:15	03/18/06 06:39
LF6GW100	SAMPLE	185622-036	37	0.50	1.000	111462	03/17/06 09:40	03/18/06 08:48
LF6GW103	SAMPLE	185622-037	77	5.0	10.00	111462	03/17/06 10:55	03/18/06 12:48
	BLANK	QC332159	ND	0.50	1.000	111462		03/17/06 15:14
	BLANK	QC332168	ND	0.50	1.000	111464		03/17/06 15:33

ND= Not Detected
RL= Reporting Limit

Batch QC Report

Chloride

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Units:	mg/L
Matrix:	Water	Received:	03/17/06

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Sampled	Analyzed
	BS		QC332160		4.000	3.786	95	80-120			1.000	111462		03/17/06 15:33
	BSD		QC332161		4.000	4.122	103	80-120	8	20	1.000	111462		03/17/06 15:51
DAEGW101	MS	185622-020	QC332162	18.80	10.00	27.86	91	80-120			5.000	111462	03/16/06 10:30	03/17/06 21:09
DAEGW101	MSD	185622-020	QC332163		10.00	27.81	90	80-120	0	25	5.000	111462	03/16/06 10:30	03/17/06 21:27
	BS		QC332169		4.000	4.016	100	80-120			1.000	111464		03/17/06 15:50
	BSD		QC332170		4.000	4.048	101	80-120	1	20	1.000	111464		03/17/06 16:08
DUP0316064A	MS	185622-006	QC332171	29.98	10.00	40.50	105	80-120			5.000	111464	03/16/06	03/18/06 00:28
DUP0316064A	MSD	185622-006	QC332172		10.00	40.48	105	80-120	0	25	5.000	111464	03/16/06	03/18/06 00:46

771

RPD= Relative Percent Difference

58.0

Curtis & Tompkins, Ltd.

Batch QC Report

Fluoride

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Units:	mg/L
Matrix:	Water	Received:	03/17/06

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Sampled	Analyzed
	BS		QC332160		2.000	1.969	98	80-120			1.000	111462		03/17/06 15:33
	BSD		QC332161		2.000	2.135	107	80-120	8	20	1.000	111462		03/17/06 15:51
DAEGW101	MS	185622-020	QC332162	0.08503	5.000	4.902	96	77-120			5.000	111462	03/16/06 10:30	03/17/06 21:09
DAEGW101	MSD	185622-020	QC332163		5.000	4.923	97	77-120	0	20	5.000	111462	03/16/06 10:30	03/17/06 21:27
	BS		QC332169		2.000	1.957	98	80-120			1.000	111464		03/17/06 15:50
	BSD		QC332170		2.000	1.984	99	80-120	1	20	1.000	111464		03/17/06 16:08
DUP0316064A	MS	185622-006	QC332171	0.03641	5.000	4.772	95	77-120			5.000	111464	03/16/06	03/18/06 00:28
DUP0316064A	MSD	185622-006	QC332172		5.000	4.798	95	77-120	1	20	5.000	111464	03/16/06	03/18/06 00:46

772

RPD= Relative Percent Difference

60.0

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrate Nitrogen

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Units:	mg/L
Matrix:	Water	Received:	03/17/06

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Sampled	Analyzed
	BS		QC332160		1.000	0.9688	97	80-120			1.000	111462		03/17/06 15:33
	BSD		QC332161		1.000	1.060	106	80-120	9	20	1.000	111462		03/17/06 15:51
DAEGW101	MS	185622-020	QC332162	<0.008826	2.500	2.416	97	80-120			5.000	111462	03/16/06 10:30	03/17/06 21:09
DAEGW101	MSD	185622-020	QC332163		2.500	2.433	97	80-120	1	25	5.000	111462	03/16/06 10:30	03/17/06 21:27
	BS		QC332169		1.000	1.022	102	80-120			1.000	111464		03/17/06 15:50
	BSD		QC332170		1.000	1.027	103	80-120	0	20	1.000	111464		03/17/06 16:08
DUP0316064A	MS	185622-006	QC332171	1.541	2.500	4.117	103	80-120			5.000	111464	03/16/06	03/18/06 00:28
DUP0316064A	MSD	185622-006	QC332172		2.500	4.112	103	80-120	0	25	5.000	111464	03/16/06	03/18/06 00:46

773

RPD= Relative Percent Difference

62.0

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrite Nitrogen

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Units:	mg/L
Matrix:	Water	Received:	03/17/06

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Sampled	Analyzed
	BS		QC332160		1.000	0.9551	96	80-120			1.000	111462		03/17/06 15:33
	BSD		QC332161		1.000	1.011	101	80-120	6	20	1.000	111462		03/17/06 15:51
DAEGW101	MS	185622-020	QC332162	<0.01206	2.500	2.597	104	80-120			5.000	111462	03/16/06 10:30	03/17/06 21:09
DAEGW101	MSD	185622-020	QC332163		2.500	2.540	102	80-120	2	25	5.000	111462	03/16/06 10:30	03/17/06 21:27
	BS		QC332169		1.000	0.9952	100	80-120			1.000	111464		03/17/06 15:50
	BSD		QC332170		1.000	0.9905	99	80-120	0	20	1.000	111464		03/17/06 16:08
DUP0316064A	MS	185622-006	QC332171	<0.006664	2.500	2.543	102	80-120			5.000	111464	03/16/06	03/18/06 00:28
DUP0316064A	MSD	185622-006	QC332172		2.500	2.472	99	80-120	3	25	5.000	111464	03/16/06	03/18/06 00:46

774

RPD= Relative Percent Difference

64.0

Curtis & Tompkins, Ltd.

Batch QC Report

Sulfate

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Units:	mg/L
Matrix:	Water	Received:	03/17/06

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Sampled	Analyzed
	BS		QC332160		10.00	9.683	97	80-120			1.000	111462		03/17/06 15:33
	BSD		QC332161		10.00	10.35	103	80-120	7	20	1.000	111462		03/17/06 15:51
DAEGW101	MS	185622-020	QC332162	87.36	25.00	112.0	98	80-120			5.000	111462	03/16/06 10:30	03/17/06 21:09
DAEGW101	MSD	185622-020	QC332163		25.00	112.3	100	80-120	0	25	5.000	111462	03/16/06 10:30	03/17/06 21:27
	BS		QC332169		10.00	10.10	101	80-120			1.000	111464		03/17/06 15:50
	BSD		QC332170		10.00	10.25	103	80-120	2	20	1.000	111464		03/17/06 16:08
DUP0316064A	MS	185622-006	QC332171	16.84	25.00	42.26	102	80-120			5.000	111464	03/16/06	03/18/06 00:28
DUP0316064A	MSD	185622-006	QC332172		25.00	42.00	101	80-120	1	25	5.000	111464	03/16/06	03/18/06 00:46

775

RPD= Relative Percent Difference

66.0

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185622 IC Water: EPA 300.0

Inst : IC01
Calnum : 606046871001
Units : mg/L

Date : 01-FEB-2006 13:28
X Axis : A

Reviewer: MCH
Inj Vol : 25 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	032_2.000	606046871002	L1	01-FEB-2006 13:28	S1888 (500X)
L2	032_3.000	606046871003	L2	01-FEB-2006 13:46	S1888 (100X)
L3	032_4.000	606046871004	L3	01-FEB-2006 14:03	S1888 (25X)
L4	032_5.000	606046871005	L4	01-FEB-2006 14:21	S1888 (10X)
L5	032_6.000	606046871006	L5	01-FEB-2006 14:38	S1888 (5X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Fluoride	0.2528	0.2613	0.2883	0.2940	0.3105	QORG		0.27855	0.003187	0.2814	1.000	0.990	
Chloride	0.1745	0.1698	0.1822	0.1890	0.2055	QORG		0.17357	0.001594	0.1842	1.000	0.990	
Nitrogen, Nitrite	0.3864	0.3575	0.3722	0.3676	0.3830	QORG		0.35745	0.005065	0.3733	1.000	0.990	
Nitrogen, Nitrate	0.4498	0.4302	0.4579	0.4590	0.4824	QORG		0.44011	0.008413	0.4558	1.000	0.990	
Sulfate	0.1233	0.1237	0.1314	0.1331	0.1412	QORG		0.12610	3.005E-4	0.1305	1.000	0.990	

776

QORG=Quadratic regression forced through origin

Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

606046871001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 300.0

Inst : IC01
Calnum : 606046871001 Date : 01-FEB-2006 13:28 Inj Vol: 25 uL

MAS 2/2/06

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	032_2.000	606046871002	L1	01-FEB-2006 13:28	S1888 (500X)
L2	032_3.000	606046871003	L2	01-FEB-2006 13:46	S1888 (100X)
L3	032_4.000	606046871004	L3	01-FEB-2006 14:03	S1888 (25X)
L4	032_5.000	606046871005	L4	01-FEB-2006 14:21	S1888 (10X)
L5	032_6.000	606046871006	L5	01-FEB-2006 14:38	S1888 (5X)

Analyte	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MnR^2	Flags
Fluoride	0.2528	0.2613	0.2883	0.2940	0.3105	QORG	A		0.278548	0.003187	mg/L	0.2814	1.000	0.990	
Chloride	0.1745	0.1698	0.1822	0.1890	0.2055	QORG	A		0.173571	0.001594	mg/L	0.1842	1.000	0.990	
Nitrogen, Nitrite	0.3864	0.3575	0.3722	0.3676	0.3830	QORG	A		0.357447	0.005065	mg/L	0.3733	1.000	0.990	
Bromide	0.0765	0.0774	0.0807	0.0787	0.0812	QORG	A		0.077484	1.818E-4	mg/L	0.0789	1.000	0.990	
Nitrogen, Nitrate	0.4498	0.4302	0.4579	0.4590	0.4824	QORG	A		0.440113	0.008413	mg/L	0.4558	1.000	0.990	
Orthophosphate (as P)	0.1717	0.2172	0.2560	0.2220	0.2112	QORG	A		0.242367	-0.00158	mg/L	0.2156	0.999	0.990	NT
Sulfate	0.1233	0.1237	0.1314	0.1331	0.1412	QORG	A		0.126102	3.005E-4	mg/L	0.1305	1.000	0.990	

MAS 2/1/06

777

NT = non-target

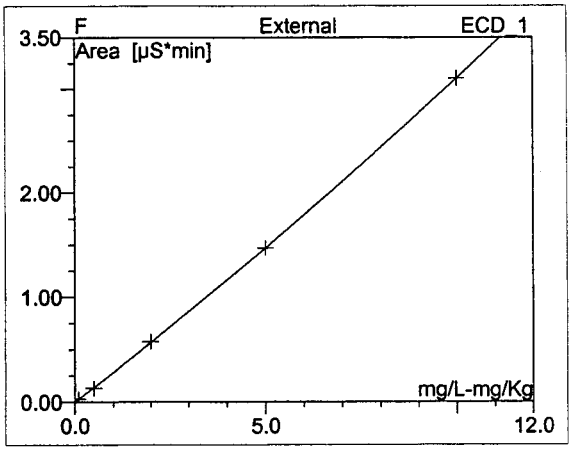
QORG=Quadratic regression forced through origin

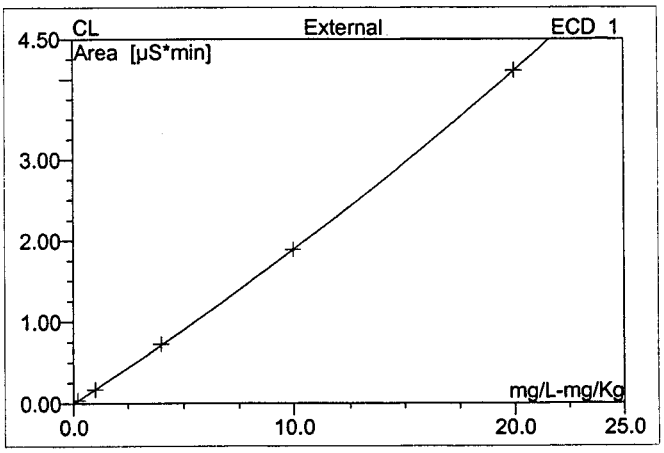
Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

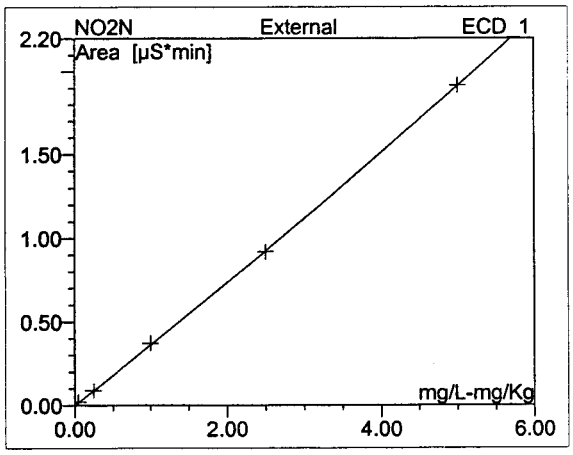
606046871001

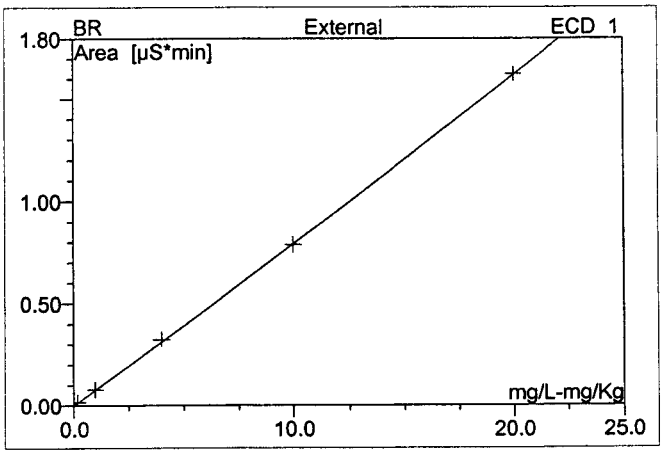
IC01 Calibration Batch Report

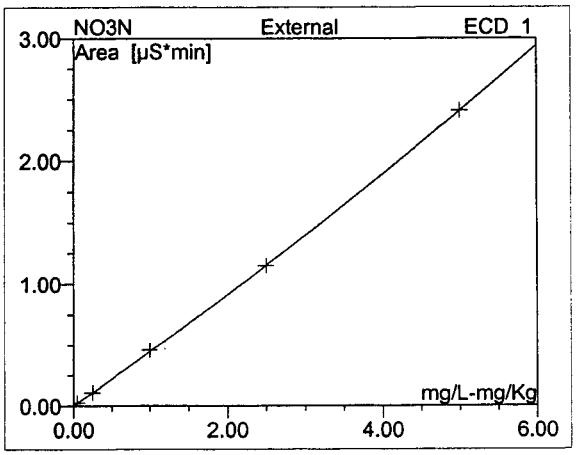
Sequence:	032	Inj. Vol.:	25.0
Program:	IC01-7AN	Operator:	PC_NEWIC
Inj. Date/Time:	02/01/06 14:03	Run Time:	15.00

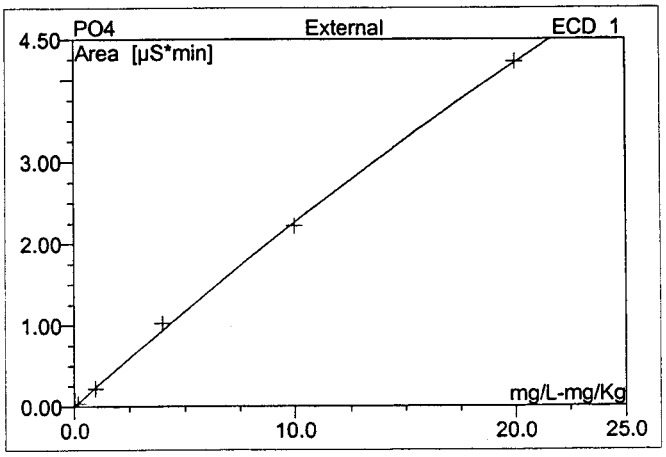




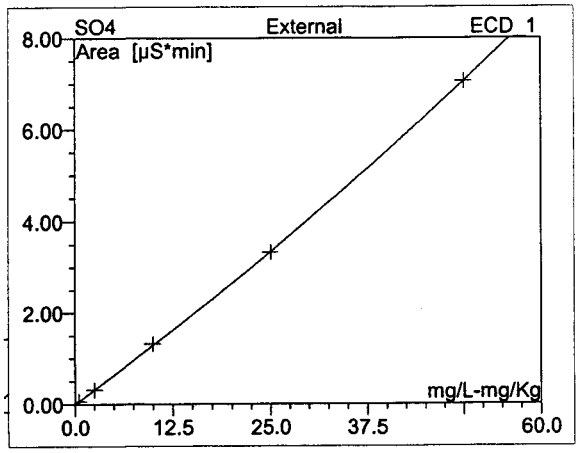








Sequence:	032	*Inj. Vol.:*	25.0
Program:	IC01-7AN	*Operator:*	n.a.
Inj. Date/Time:	02/01/06 14:03	*Run Time:*	15.00



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	3.37	F	Quad	5	0.000000	0.278548	0.003187	99.966068
2	4.89	CL	Quad	5	0.000000	0.173571	0.001594	99.916153
4	5.79	NO2N	Quad	5	0.000000	0.357447	0.005065	99.979455
5	7.33	BR	Quad	5	0.000000	0.077484	0.000182	99.987414
6	8.26	NO3N	Quad	5	0.000000	0.440112	0.008413	99.970779
7	10.28	PO4	Quad	5	0.000000	0.242367	-0.001578	99.885417
8	12.17	SO4	Quad	5	0.000000	0.126102	0.000301	99.958961
AVERAGE:					0.000000	0.242233	0.002452	99.952035

No.	Name	Area µS*min F ECD_1	Area µS*min CL ECD_1	Area µS*min NO2N ECD_1	Area µS*min BR ECD_1	Area µS*min NO3N ECD_1	Area µS*min PO4 ECD_1	Area µS*min SO4 ECD_1
2	ICAL,L1,S188	0.025275	0.034903	0.019321	0.015298	0.022490	0.034330	0.061629
3	ICAL,L2,S188	0.130653	0.169780	0.089380	0.077435	0.107540	0.217220	0.309323
4	ICAL,L3,S188	0.576603	0.728921	0.372151	0.322907	0.457889	1.024032	1.314019
5	ICAL,L4,S188	1.469972	1.890327	0.919106	0.786634	1.147425	2.219833	3.327253
6	ICAL,L5,S188	3.104502	4.110030	1.915021	1.623599	2.411883	4.224545	7.058845

No.	Name	Height µS F ECD_1	Height µS CL ECD_1	Height µS NO2N ECD_1	Height µS BR ECD_1	Height µS NO3N ECD_1	Height µS PO4 ECD_1	Height µS SO4 ECD_1
2	ICAL,L1,S188	0.214888	0.258158	0.107142	0.073826	0.090044	0.092472	0.173918
3	ICAL,L2,S188	1.091262	1.255538	0.520346	0.357736	0.437902	0.520594	0.860712
4	ICAL,L3,S188	4.846146	5.414854	2.167724	1.511584	1.866278	2.566166	3.696382
5	ICAL,L4,S188	12.797028	14.219142	5.393734	3.770806	4.728312	6.027548	9.511224
6	ICAL,L5,S188	27.169356	31.375536	11.293560	7.962244	10.100652	12.291378	20.783882

No.	Name	Amount mg/L-mg/Kg F ECD_1	Amount mg/L-mg/Kg CL ECD_1	Amount mg/L-mg/Kg NO2N ECD_1	Amount mg/L-mg/Kg BR ECD_1	Amount mg/L-mg/Kg NO3N ECD_1	Amount mg/L-mg/Kg PO4 ECD_1	Amount mg/L-mg/Kg SO4 ECD_1
2	ICAL,L1,S188	0.090645	0.200718	0.054011	0.197347	0.051052	0.141776	0.488153
3	ICAL,L2,S188	0.466559	0.969523	0.249171	0.997037	0.243215	0.901538	2.438779
4	ICAL,L3,S188	2.023200	4.048958	1.026211	4.127423	1.020484	4.348224	10.173592
5	ICAL,L4,S188	4.992160	9.976525	2.483881	9.921246	2.488719	9.781943	24.906875
6	ICAL,L5,S188	10.001057	20.003598	5.002836	20.014099	5.001893	20.046763	50.015285

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Inhibit Integration	On	ECD_1
2	3.000	Inhibit Integration	Off	ECD_1
3	3.010	Minimum Area	0.001 "[Signal]*min"	ECD_1
4	3.011	Peak Slice	0.05 s	ECD_1

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Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Comment	Amount ICAL,L1,S1888,500
1	F	3.347 min	5.000 RG	External	Area	Quad	Auto			0.100000
2	*CL*	*4.800 min*	*5.000 RG*	*External*	*Area*	*Quad*	*Auto*			*0.200000*
3	NO2N	5.653 min	5.000 RG	External	Area	Quad	Auto			0.050000
4	BR	7.107 min	5.000 RG	External	Area	Quad	Auto			0.200000
5	NO3N	7.997 min	10.000 RG	External	Area	Quad	Auto			0.050000
6	PO4	9.950 min	10.000 RG	External	Area	Quad	Auto			0.200000
7	SO4	11.803 min	10.000 RG	External	Area	Quad	Auto			0.500000

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Amount ICAL,L2,S1888,100	Amount ICAL,L3,S1888,25	Amount ICAL,L4,S1888,10	Amount ICAL,L5,S1888,5
1	F	3.347 min	0.500000	2.000000	5.000000	10.000000
2	*CL*	*4.800 min*	*1.000000*	*4.000000*	*10.000000*	*20.000000*
3	NO2N	5.653 min	0.250000	1.000000	2.500000	5.000000
4	BR	7.107 min	1.000000	4.000000	10.000000	20.000000
5	NO3N	7.997 min	0.250000	1.000000	2.500000	5.000000
6	PO4	9.950 min	1.000000	4.000000	10.000000	20.000000
7	SO4	11.803 min	2.500000	10.000000	25.000000	50.000000

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Resp.Fact.	Comment	Amount ICAL,L1,S1888,500	Amount ICAL,L2,S1888,100	Amount ICAL,L3,S1888,25	Amount ICAL,L4,S1888,10
1	F	3.347 min	1.000000		0.100000	0.500000	2.000000	5.000000
2	*CL*	*4.800 min*	*1.000000*		*0.200000*	*1.000000*	*4.000000*	*10.000000*
3	NO2N	5.653 min	1.000000		0.050000	0.250000	1.000000	2.500000
4	BR	7.107 min	1.000000		0.200000	1.000000	4.000000	10.000000
5	NO3N	7.997 min	1.000000		0.050000	0.250000	1.000000	2.500000
6	PO4	9.950 min	1.000000		0.200000	1.000000	4.000000	10.000000
7	SO4	11.803 min	1.000000		0.500000	2.500000	10.000000	25.000000

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Amount ICAL,L5,S1888,5
1	F	3.347 min	10.000000
2	*CL*	*4.800 min*	*20.000000*
3	NO2N	5.653 min	5.000000
4	BR	7.107 min	20.000000
5	NO3N	7.997 min	5.000000
6	PO4	9.950 min	20.000000
7	SO4	11.803 min	50.000000

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

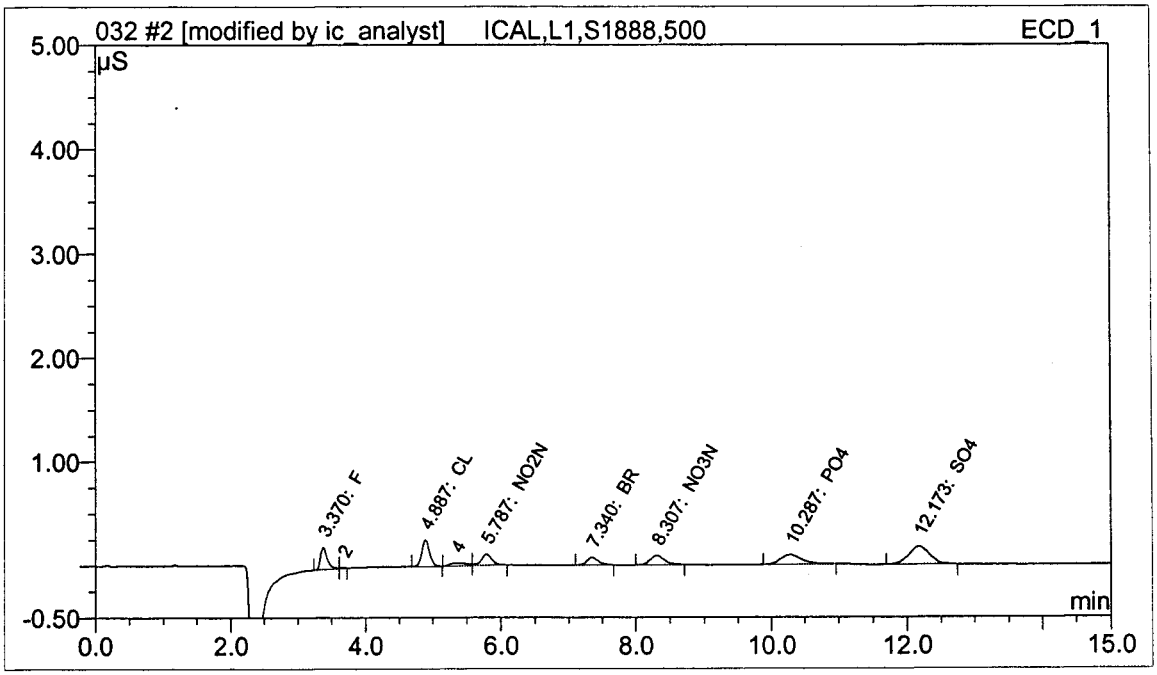
No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time	Calib. Comment
1	☒	ICAL,L1,S1888,500	2	70	25.0	1.0000	1.0000	1.0000	2/1/2006 1:28:35 PM	Ok
2	☒	ICAL,L2,S1888,100	3	35	25.0	1.0000	1.0000	1.0000	2/1/2006 1:46:06 PM	Ok
3	☒	ICAL,L3,S1888,25	4	35	25.0	1.0000	1.0000	1.0000	2/1/2006 2:03:37 PM	Ok
4	☒	ICAL,L4,S1888,10	5	36	25.0	1.0000	1.0000	1.0000	2/1/2006 2:21:08 PM	Ok
5	☒	ICAL,L5,S1888,5	6	37	25.0	1.0000	1.0000	1.0000	2/1/2006 2:38:38 PM	Ok

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L1,S1888,500	**Sample No.:**	2
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:28 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	0.025275	0.0906	0.0906	
3	CL	4.887	0.034903	0.2007	0.2007	
5	NO2N	5.787	0.019321	0.0540	0.0540	
6	BR	7.340	0.015298	0.1973	0.1973	
7	NO3N	8.307	0.022490	0.0511	0.0511	
8	PO4	10.287	0.034330	0.1418	0.1418	
9	SO4	12.173	0.061629	0.4882	0.4882	



ANALYZED BY: _____

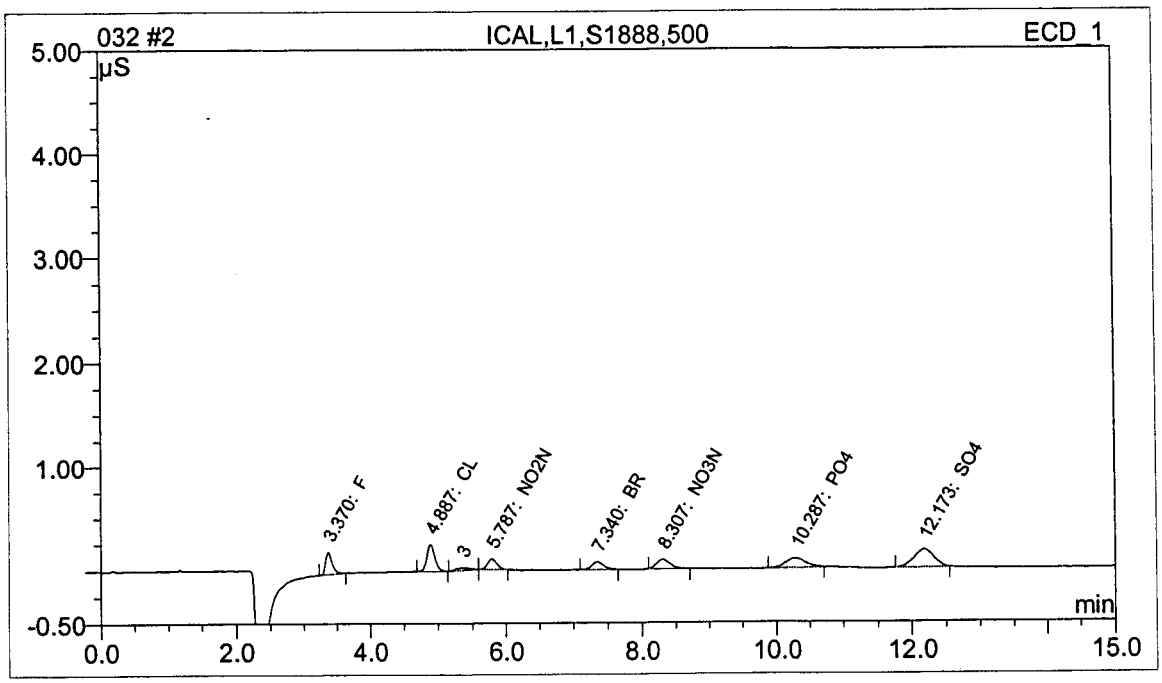
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L1,S1888,500	**Sample No.:**	2
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:28 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	0.024236	0.0869	0.0869	
2	CL	4.887	0.034903	0.2007	0.2007	
4	NO2N	5.787	0.015698	0.0439	0.0439	
5	BR	7.340	0.015043	0.1941	0.1941	
6	NO3N	8.307	0.020103	0.0456	0.0456	
7	PO4	10.287	0.031075	0.1283	0.1283	
8	SO4	12.173	0.056768	0.4497	0.4497	



ANALYZED BY: _____

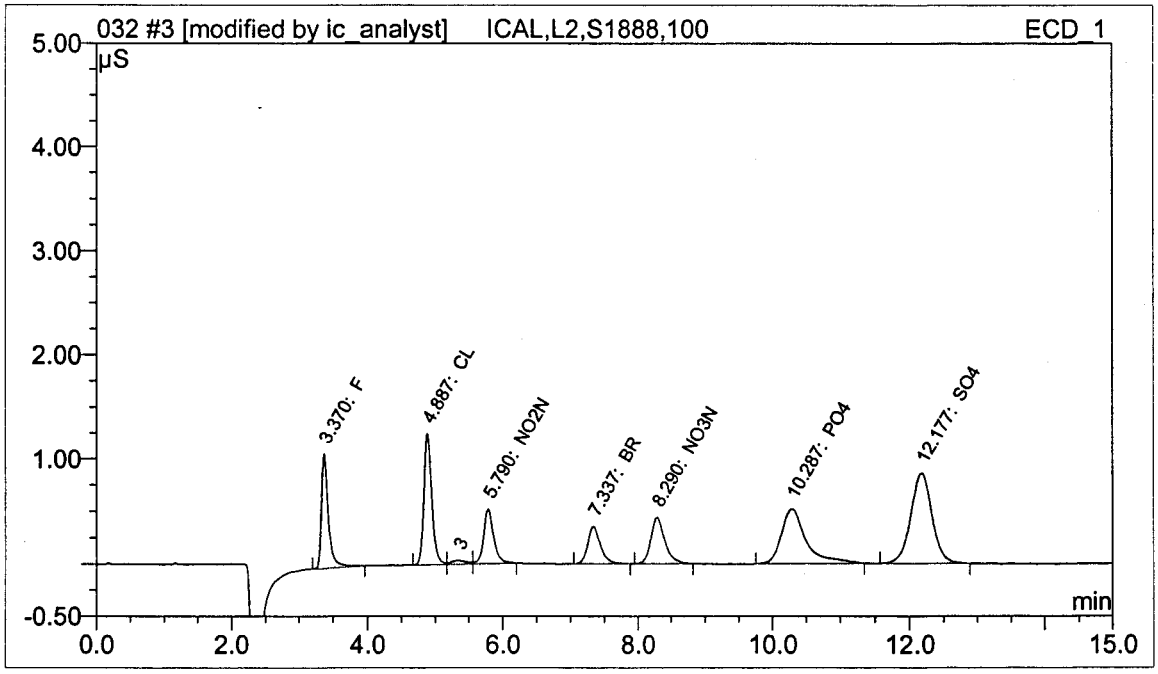
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L2,S1888,100	**Sample No.:**	3
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:46 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	0.130653	0.4666	0.4666	
2	CL	4.887	0.169780	0.9695	0.9695	
4	NO2N	5.790	0.089380	0.2492	0.2492	
5	BR	7.337	0.077435	0.9970	0.9970	
6	NO3N	8.290	0.107540	0.2432	0.2432	
7	PO4	10.287	0.217220	0.9015	0.9015	
8	SO4	12.177	0.309323	2.4388	2.4388	



ANALYZED BY: _____

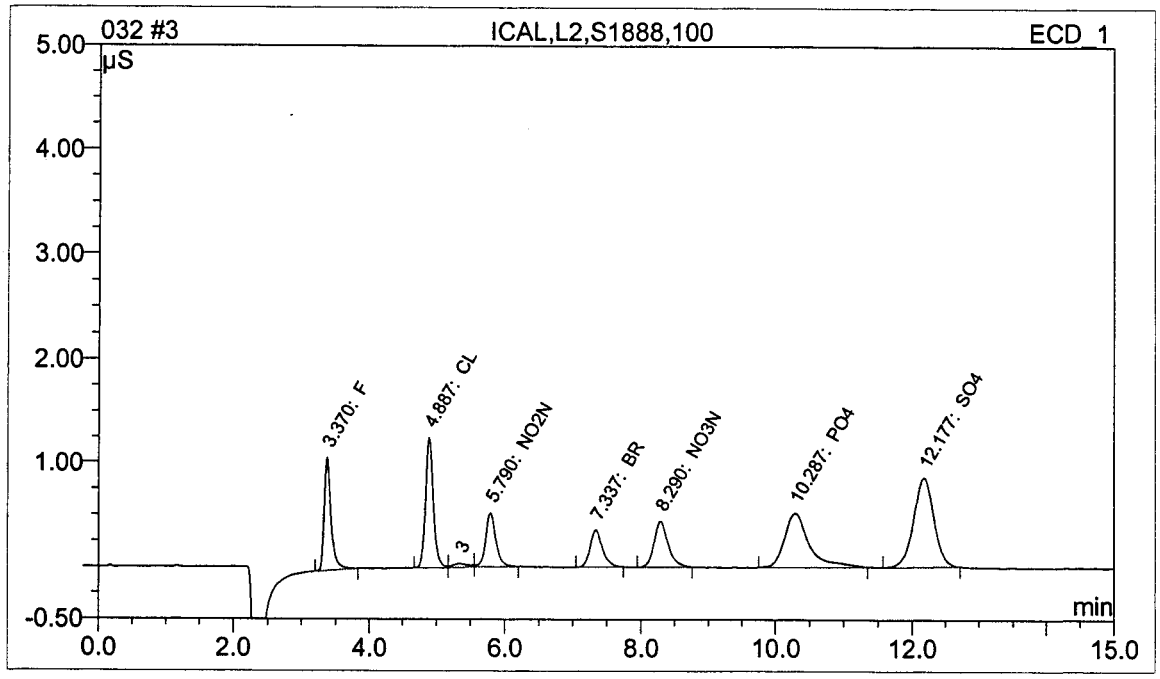
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L2,S1888,100	**Sample No.:**	3
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:46 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	0.127500	0.4556	0.4556	
2	CL	4.887	0.169780	0.9695	0.9695	
4	NO2N	5.790	0.089380	0.2492	0.2492	
5	BR	7.337	0.075668	0.9749	0.9749	
6	NO3N	8.290	0.106521	0.2410	0.2410	
7	PO4	10.287	0.217220	0.9015	0.9015	
8	SO4	12.177	0.303977	2.3979	2.3979	



ANALYZED BY: _____

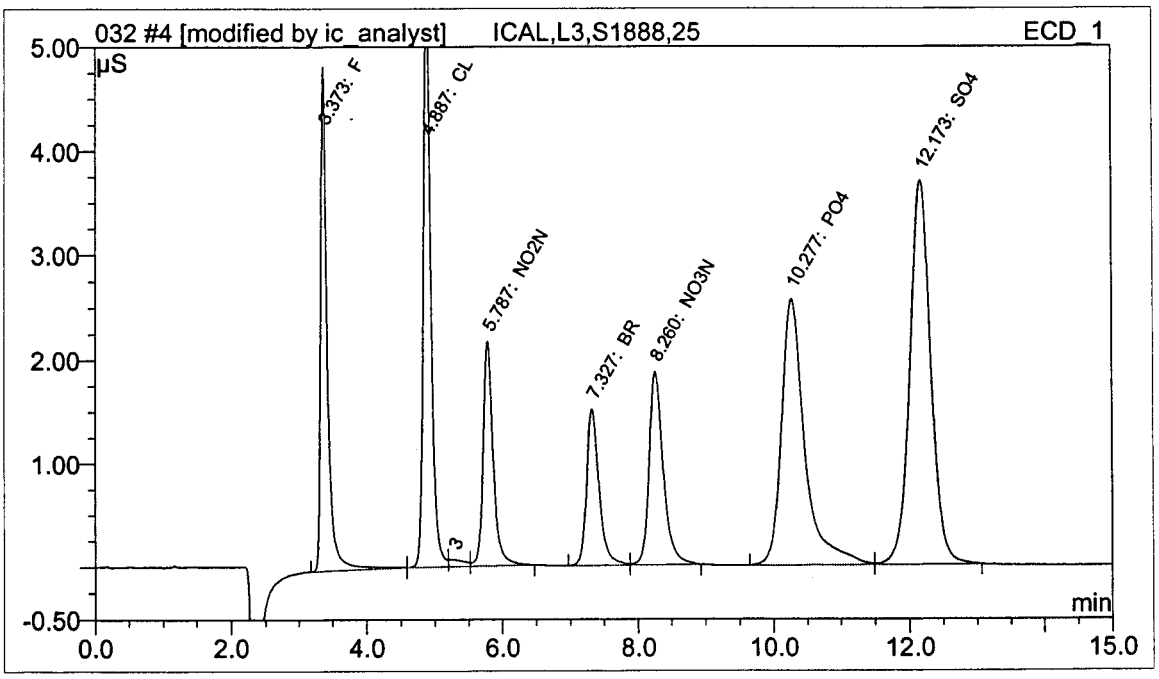
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L3,S1888,25	**Sample No.:**	4
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:03 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.373	0.576603	2.0232	2.0232	
2	CL	4.887	0.728921	4.0490	4.0490	
4	NO2N	5.787	0.372151	1.0262	1.0262	
5	BR	7.327	0.322907	4.1274	4.1274	
6	NO3N	8.260	0.457889	1.0205	1.0205	
7	PO4	10.277	1.024032	4.3482	4.3482	
8	SO4	12.173	1.314019	10.1736	10.1736	



ANALYZED BY: _____

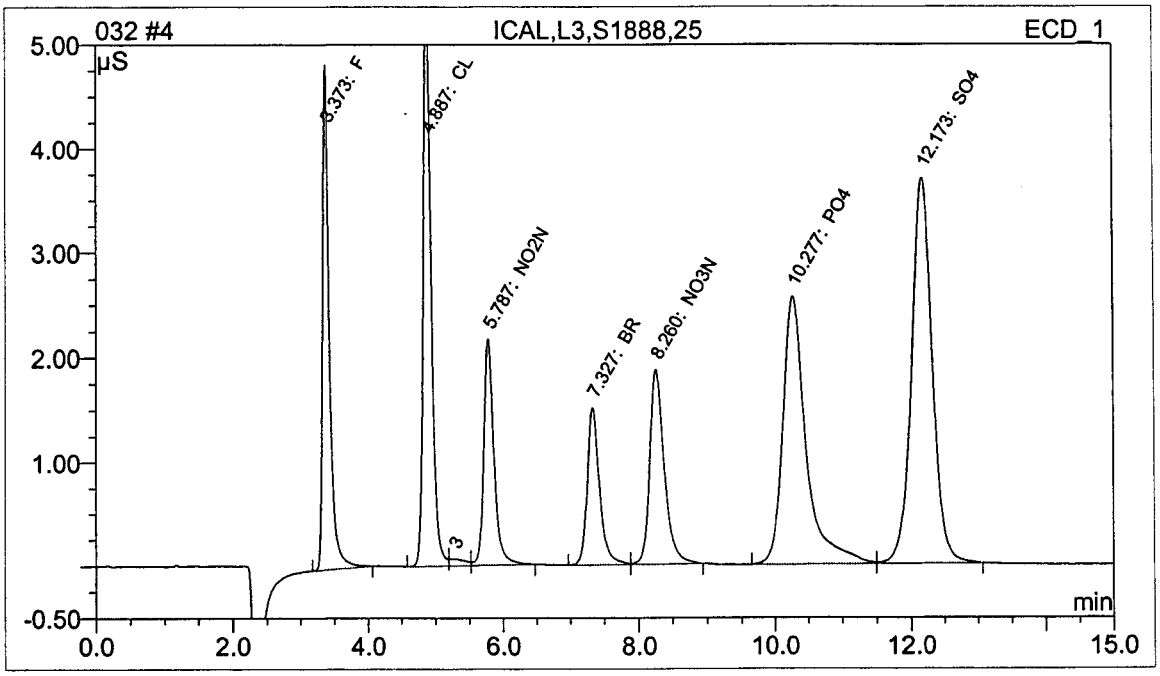
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L3,S1888,25	**Sample No.:**	4
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:03 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.373	0.560194	1.9831	1.9831	
2	CL	4.887	0.728921	4.0490	4.0490	
4	NO2N	5.787	0.372151	1.0262	1.0262	
5	BR	7.327	0.322907	4.1274	4.1274	
6	NO3N	8.260	0.457889	1.0205	1.0205	
7	PO4	10.277	1.024032	4.3482	4.3482	
8	SO4	12.173	1.314019	10.1736	10.1736	



ANALYZED BY: _____

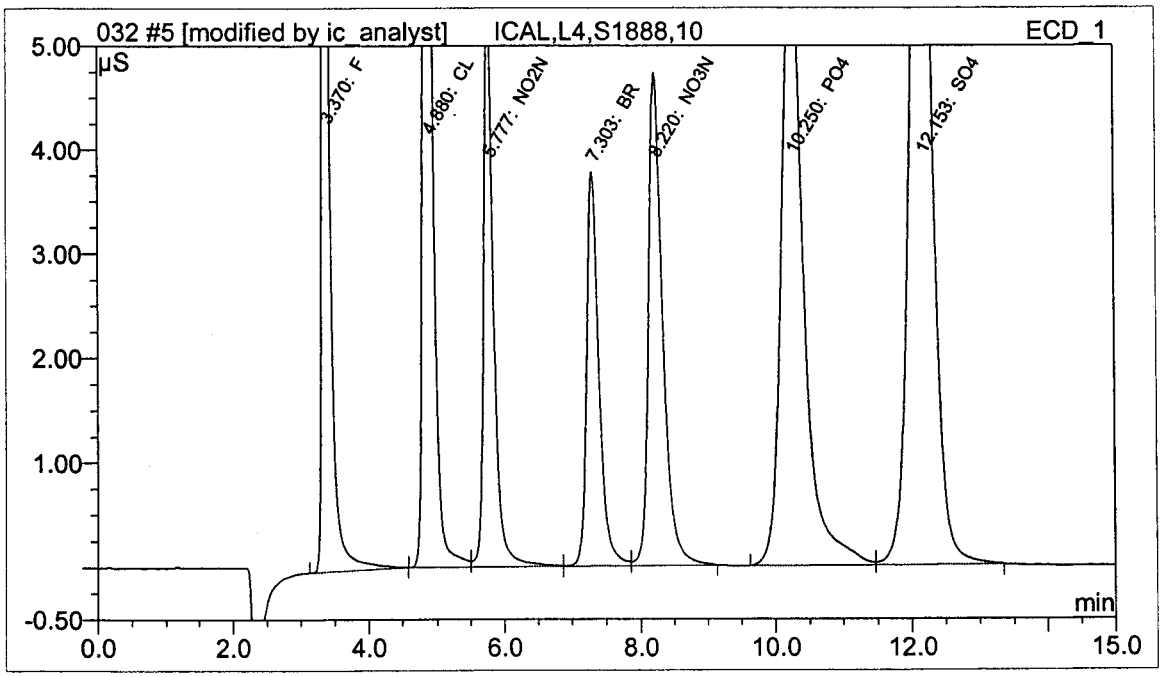
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L4,S1888,10	**Sample No.:**	5
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:21 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	1.469972	4.9922	4.9922	
2	CL	4.880	1.890327	9.9765	9.9765	
3	NO2N	5.777	0.919106	2.4839	2.4839	
4	BR	7.303	0.786634	9.9212	9.9212	
5	NO3N	8.220	1.147425	2.4887	2.4887	
6	PO4	10.250	2.219833	9.7819	9.7819	
7	SO4	12.153	3.327253	24.9069	24.9069	



ANALYZED BY: _____

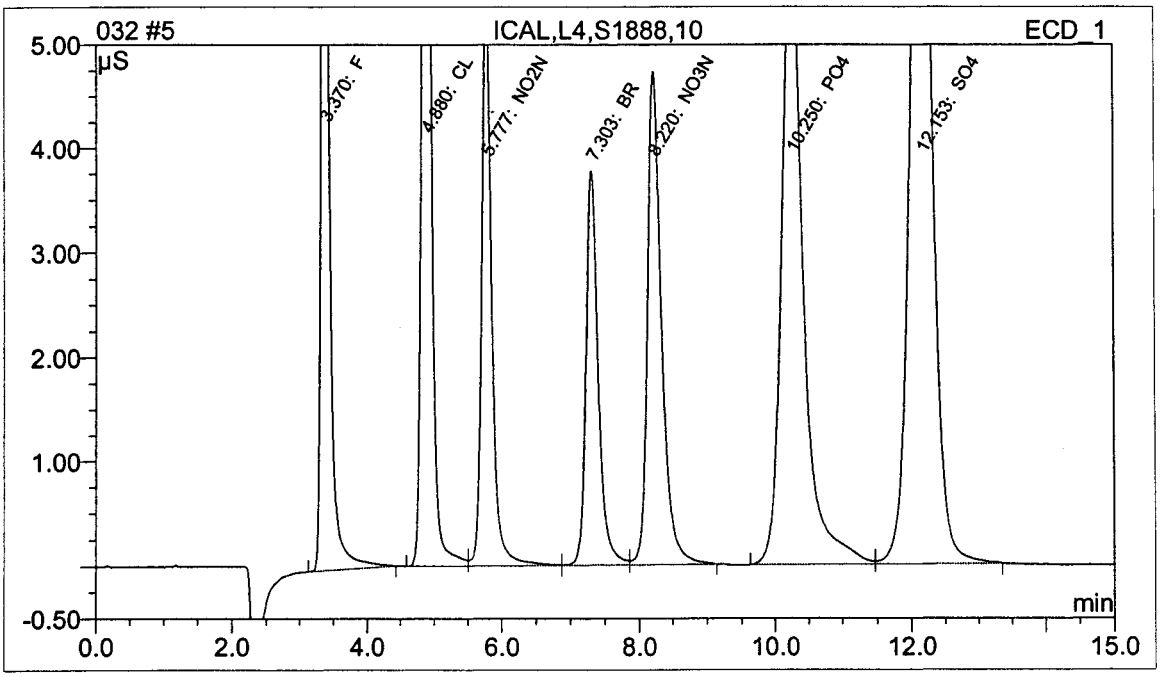
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L4,S1888,10	**Sample No.:**	5
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:21 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	1.463674	4.9860	4.9860	
2	CL	4.880	1.890327	9.9765	9.9765	
3	NO2N	5.777	0.919106	2.4839	2.4839	
4	BR	7.303	0.786634	9.9212	9.9212	
5	NO3N	8.220	1.147425	2.4887	2.4887	
6	PO4	10.250	2.219833	9.7819	9.7819	
7	SO4	12.153	3.327253	24.9069	24.9069	



ANALYZED BY: _____

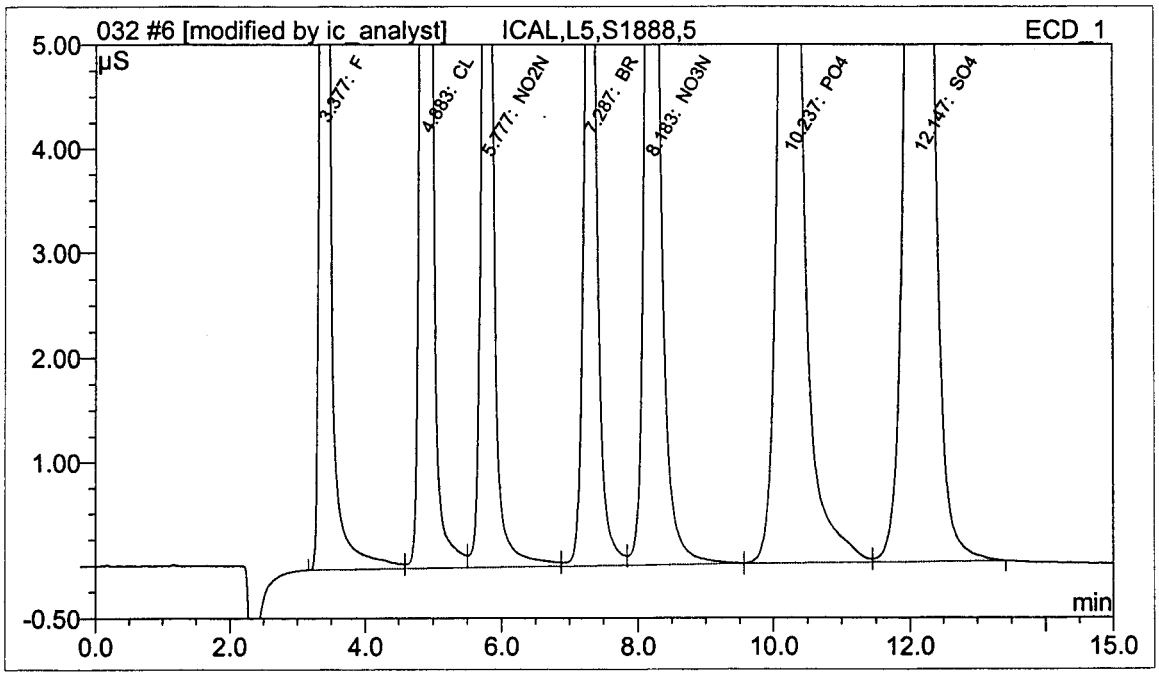
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L5,S1888,5	**Sample No.:**	6
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:38 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.377	3.104502	10.0011	10.0011	
2	CL	4.883	4.110030	20.0036	20.0036	
3	NO2N	5.777	1.915021	5.0028	5.0028	
4	BR	7.287	1.623599	20.0141	20.0141	
5	NO3N	8.183	2.411883	5.0019	5.0019	
6	PO4	10.237	4.224545	20.0468	20.0468	
7	SO4	12.147	7.058845	50.0153	50.0153	



ANALYZED BY: _____

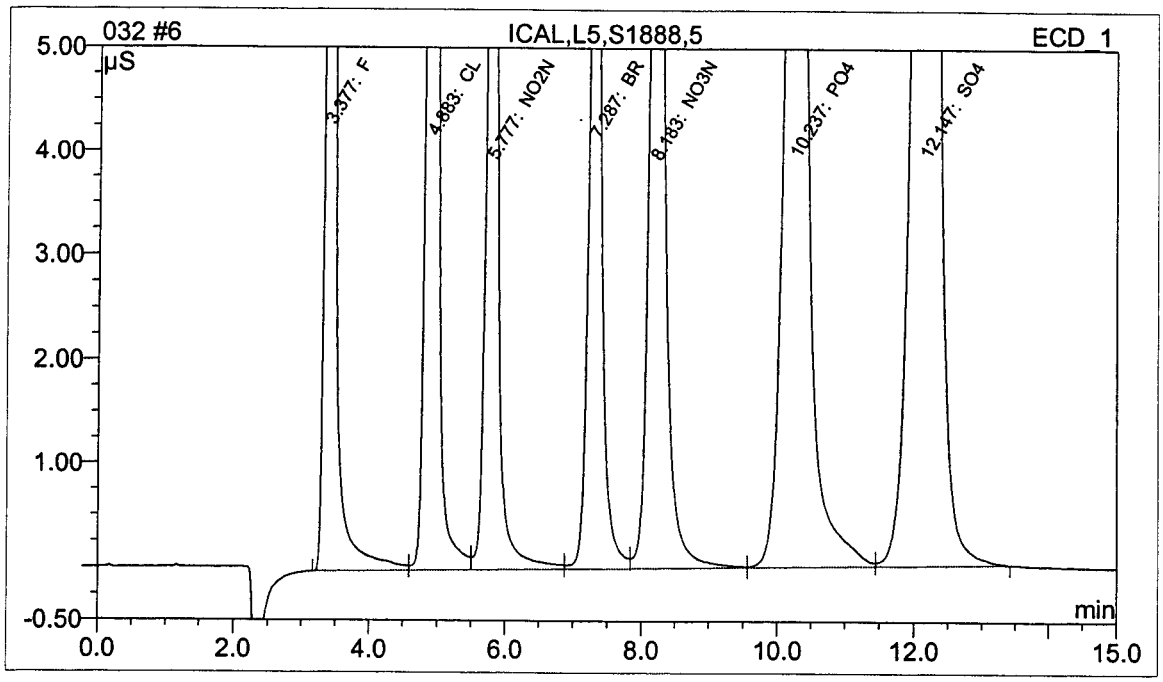
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L5,S1888,5	**Sample No.:**	6
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:38 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.377	3.105467	10.0011	10.0011	
2	CL	4.883	4.111657	20.0037	20.0037	
3	NO2N	5.777	1.918949	5.0029	5.0029	
4	BR	7.287	1.627431	20.0145	20.0145	
5	NO3N	8.183	2.420882	5.0021	5.0021	
6	PO4	10.237	4.233171	20.0470	20.0470	
7	SO4	12.147	7.061876	50.0155	50.0155	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185622 IC Water
EPA 300.0

Inst : IC01
Calnum : 606046871001 Cal Date: 01-FEB-2006

ICV 606046871007 (032_7.000 01-FEB-2006) stds: S1085 (5X)

Analyte	Spiked	Quant	Units	%D	Max	Flags
Fluoride	1.000	0.9085	mg/L	-9	10	
Chloride	2.000	1.856	mg/L	-7	10	
Nitrogen, Nitrite	0.5000	0.4846	mg/L	-3	10	
Nitrogen, Nitrate	0.5000	0.4506	mg/L	-10	10	
Sulfate	5.000	4.911	mg/L	-2	10	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606046871007 File : 032_7.000 Time : 01-FEB-2006 14:56
Cal : 606046871001 Caldate: 01-FEB-2006

Standards: S1085 (5X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Fluoride	0.2814	0.2557	1.000	0.9085	mg/L	-9	10	
Chloride	0.1842	0.1638	2.000	1.856	mg/L	-7	10	
Nitrogen, Nitrite	0.3733	0.3488	0.5000	0.4846	mg/L	-3	10	
Bromide	0.0789	0.0774	2.000	1.990	mg/L	-1	10	
Nitrogen, Nitrate	0.4558	0.4001	0.5000	0.4506	mg/L	-10	10	
Orthophosphate (as P)	0.2156	0.2973	2.000	2.494	mg/L	**25**	10	v+ *** NT
Sulfate	0.1305	0.1253	5.000	4.911	mg/L	-2	10	

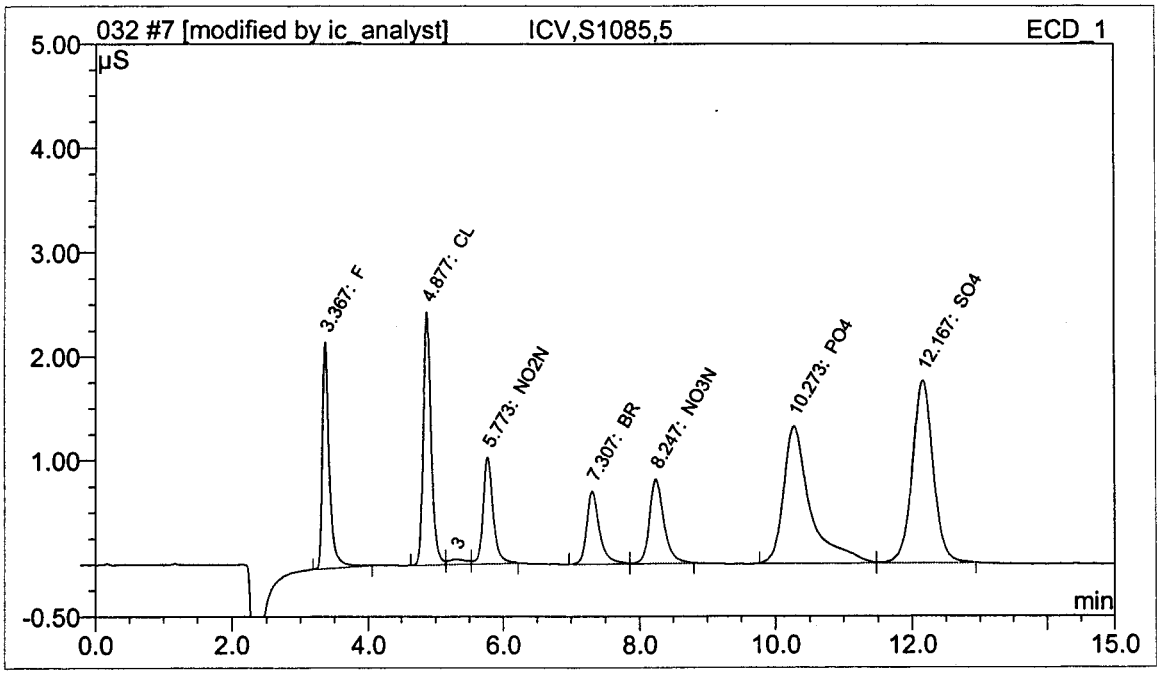
MAS 2/1/06

+=high bias v=ICV

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:56 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.367	0.255692	0.9085	0.9085	
2	CL	4.877	0.327591	1.8557	1.8557	
4	NO2N	5.773	0.174392	0.4846	0.4846	
5	BR	7.307	0.154881	1.9896	1.9896	
6	NO3N	8.247	0.200041	0.4506	0.4506	
7	PO4	10.273	0.594629	2.4939	2.4939	
8	SO4	12.167	0.626486	4.9106	4.9106	



ANALYZED BY: _____

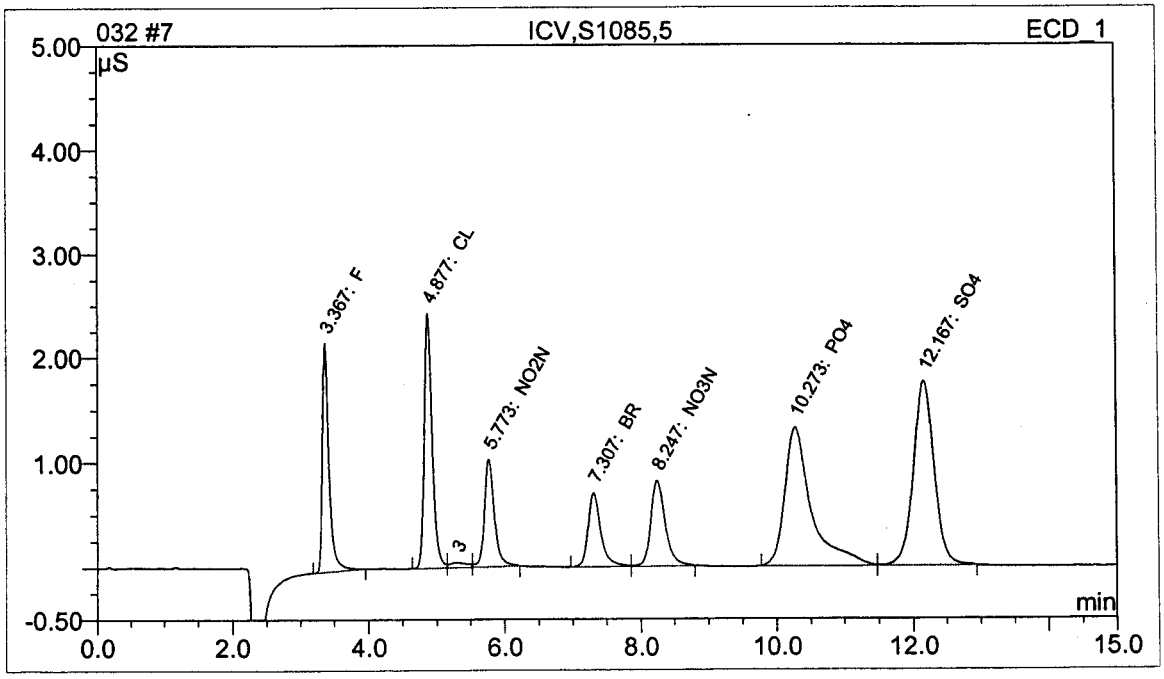
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:56 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.367	0.253367	0.9003	0.9003	
2	CL	4.877	0.327591	1.8557	1.8557	
4	NO2N	5.773	0.174392	0.4846	0.4846	
5	BR	7.307	0.154881	1.9896	1.9896	
6	NO3N	8.247	0.200041	0.4506	0.4506	
7	PO4	10.273	0.594629	2.4939	2.4939	
8	SO4	12.167	0.626486	4.9106	4.9106	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185622 IC Water: EPA 300.0

Inst : IC03
Calnum : 626087283001
Units : mg/L

Date : 01-MAR-2006 15:02
X Axis : A

Reviewer: MCH
Inj Vol : 25 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	060_2.000	626087283002	L1	01-MAR-2006 15:02	S1888 (500X)
L2	060_3.000	626087283003	L2	01-MAR-2006 15:20	S1888 (100X)
L3	060_4.000	626087283004	L3	01-MAR-2006 15:39	S1888 (25X)
L4	060_5.000	626087283005	L4	01-MAR-2006 15:57	S1888 (10X)
L5	060_6.000	626087283006	L5	01-MAR-2006 16:15	S1888 (5X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Fluoride	0.1716	0.1970	0.2011	0.2058	0.2193	QORG		0.19367	0.002557	0.1990	1.000	0.990	
Chloride	0.2004	0.1474	0.1573	0.1617	0.1760	QORG		0.14901	0.001346	0.1686	1.000	0.990	
Nitrogen, Nitrite	0.2691	0.2776	0.3037	0.3039	0.3170	QORG		0.29330	0.004711	0.2943	1.000	0.990	
Nitrogen, Nitrate	0.3560	0.3834	0.3978	0.3870	0.4128	QORG		0.37136	0.008191	0.3874	1.000	0.990	
Sulfate	0.1066	0.1006	0.1099	0.1118	0.1203	QORG		0.10436	3.187E-4	0.1099	1.000	0.990	

801

QORG=Quadratic regression forced through origin

Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

626087283001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 300.0

Inst : IC03
Calnum : 626087283001 Date : 01-MAR-2006 15:02 Inj Vol: 25 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	060_2.000	626087283002	L1	01-MAR-2006 15:02	S1888 (500X)
L2	060_3.000	626087283003	L2	01-MAR-2006 15:20	S1888 (100X)
L3	060_4.000	626087283004	L3	01-MAR-2006 15:39	S1888 (25X)
L4	060_5.000	626087283005	L4	01-MAR-2006 15:57	S1888 (10X)
L5	060_6.000	626087283006	L5	01-MAR-2006 16:15	S1888 (5X)

Mar 3/2/06

Analyte	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MnR^2	Flg
Fluoride	0.1716	0.1970	0.2011	0.2058	0.2193	QORG	A		0.19367	0.002557	mg/L	0.1990	1.000	0.990	
Chloride	0.2004	0.1474	0.1573	0.1617	0.1760	QORG	A		0.14901	0.001346	mg/L	0.1686	1.000	0.990	
Nitrogen, Nitrite	0.2691	0.2776	0.3037	0.3039	0.3170	QORG	A		0.29330	0.004711	mg/L	0.2943	1.000	0.990	
Bromide	0.0471	0.0627	0.0663	0.0635	0.0673	QORG	A		0.06168	2.750E-4	mg/L	0.0614	1.000	0.990	
Nitrogen, Nitrate	0.3560	0.3834	0.3978	0.3870	0.4128	QORG	A		0.37136	0.008191	mg/L	0.3874	1.000	0.990	
Orthophosphate (as P)	0.0986	0.1086	0.1241	0.1248	0.1349	QORG	A		0.11651	9.164E-4	mg/L	0.1182	1.000	0.990	NA
Sulfate	0.1066	0.1006	0.1099	0.1118	0.1203	QORG	A		0.10436	3.187E-4	mg/L	0.1099	1.000	0.990	

MKS 3/2/06

802

QORG=Quadratic regression forced through origin

Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

626087283001

Sequence: 060
Operator: ic_analyst

Printed: 3/2/2006 11:25:27 AM

Title: Anions
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006
Timebase: IC3_DX120
#Samples: 8

Created: 8/1/2003 11:03:14 AM by ic_analyst
Last Update: 3/1/2006 4:23:55 PM by ic_analyst

No.	*Batch	Name	Comment	Dil. Factor	Program	Status	Inj. Date/Time
1	CAL-060	IB		1.0000	IC03-7AN	Finished	3/1/2006 2:43:54 PM
2	CAL-060	ICAL, L1,S1888,500		1.0000	IC03-7AN	Finished	3/1/2006 3:02:19 PM
3	CAL-060	ICAL, L2,S1888,100		1.0000	IC03-7AN	Finished	3/1/2006 3:20:44 PM
4	CAL-060	ICAL, L3,S1888,25		1.0000	IC03-7AN	Finished	3/1/2006 3:39:08 PM
5	CAL-060	ICAL, L4,S1888,10		1.0000	IC03-7AN	Finished	3/1/2006 3:57:33 PM
6	CAL-060	ICAL, L5,S1888,5		1.0000	IC03-7AN	Finished	3/1/2006 4:15:58 PM
7	CAL-060	ICV,S1085,5		1.0000	IC03-7AN	Finished	3/1/2006 4:34:23 PM
8	CAL-060	ICB		1.0000	IC03-7AN	Finished	3/1/2006 4:52:47 PM

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Sequence: 060
Operator: ic_analyst

Printed: 3/2/2006 11:25:27 AM

Title: Anions
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006
Timebase: IC3_DX120
#Samples: 8

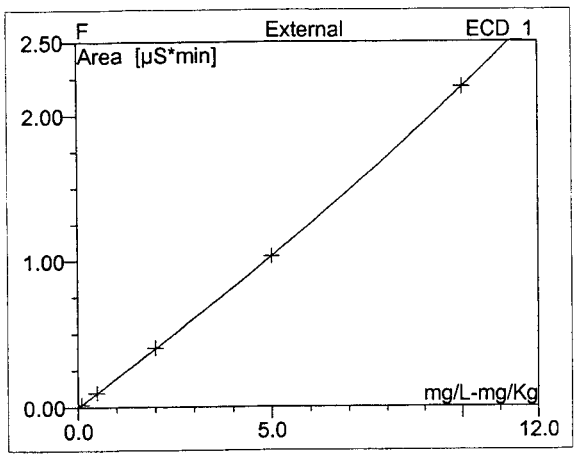
Created: 8/1/2003 11:03:14 AM by ic_analyst
Last Update: 3/1/2006 4:23:55 PM by ic_analyst

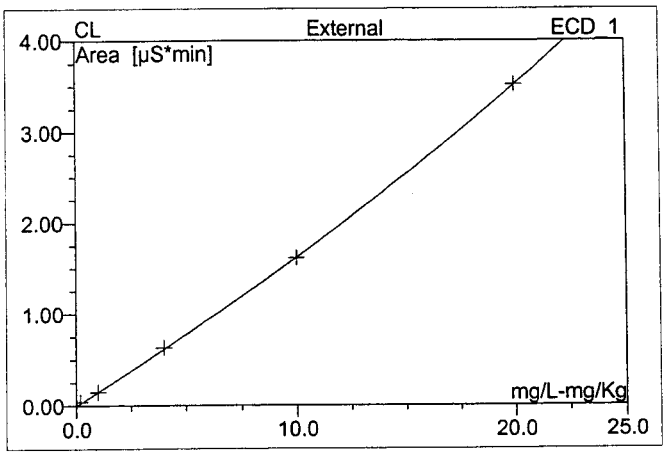
No.	*Batch	Name	Comment	Method	Type	Inj. Vol.	*operator	*PDF
1	CAL-060	IB		IC03-7AN_CAL	Unknown	25.0	MRS	1
2	CAL-060	ICAL, L1,S1888,500		IC03-7AN_CAL	Standard	25.0	MRS	1
3	CAL-060	ICAL, L2,S1888,100		IC03-7AN_CAL	Standard	25.0	MRS	1
4	CAL-060	ICAL, L3,S1888,25		IC03-7AN_CAL	Standard	25.0	MRS	1
5	CAL-060	ICAL, L4,S1888,10		IC03-7AN_CAL	Standard	25.0	MRS	1
6	CAL-060	ICAL, L5,S1888,5		IC03-7AN_CAL	Standard	25.0	MRS	1
7	CAL-060	ICV,S1085,5		IC03-7AN_CAL	Unknown	25.0	MRS	1
8	CAL-060	ICB		IC03-7AN_CAL	Unknown	25.0	MRS	1

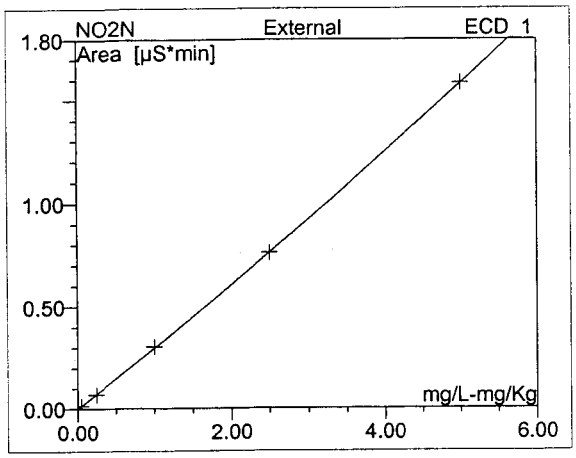
Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

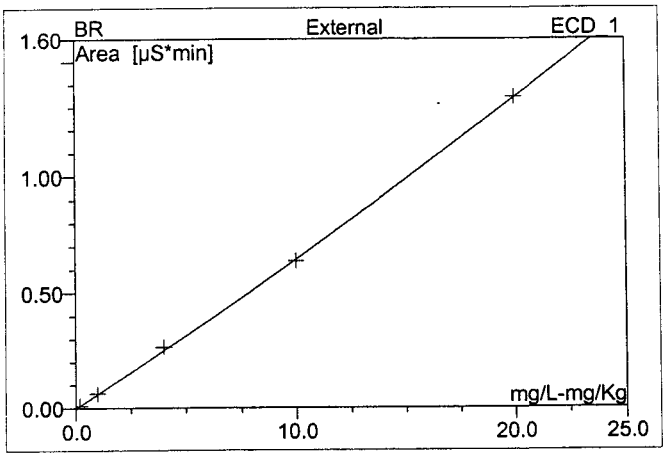
IC03 Calibration Batch Report

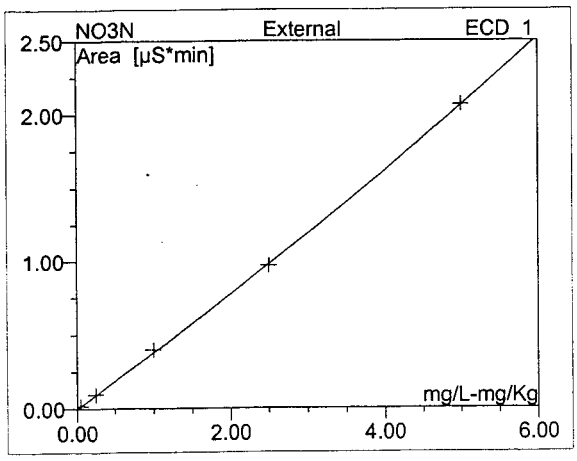
Sequence:	060	Inj. Vol.:	25.0
Program:	IC03-7AN	Operator:	PC_NEWIC
Inj. Date/Time:	03/01/06 15:39	Run Time:	16.00

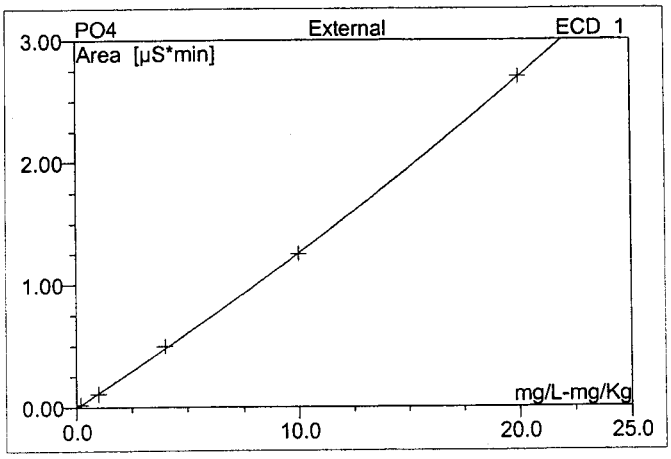




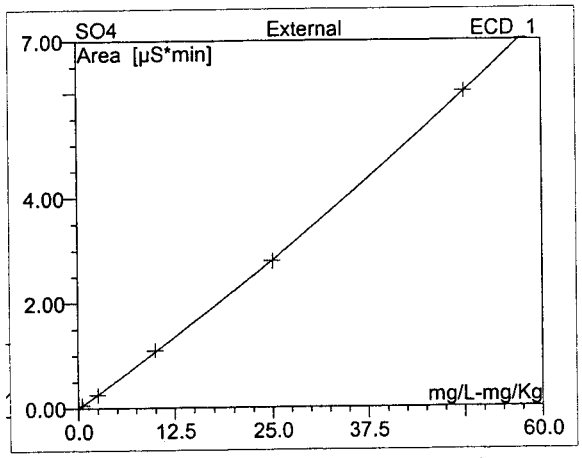








Sequence:	**060**	*Inj. Vol.:*	**25.0**
Program:	**IC03-7AN**	*Operator:*	**n.a.**
Inj. Date/Time:	**03/01/06 15:39**	*Run Time:*	**16.00**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	2.870	F	Quad	5	0.000000	0.193669	0.002557	99.951556
2	4.217	CL	Quad	5	0.000000	0.149009	0.001346	99.909274
3	5.010	NO2N	Quad	5	0.000000	0.293301	0.004711	99.980499
4	6.363	BR	Quad	5	0.000000	0.061677	0.000275	99.961186
5	7.183	NO3N	Quad	5	0.000000	0.371363	0.008191	99.950755
6	9.350	PO4	Quad	5	0.000000	0.116513	0.000916	99.934448
7	11.167	SO4	Quad	5	0.000000	0.104363	0.000319	99.936780
AVERAGE:					0.000000	0.184271	0.002616	99.946357

No.	Name	Area µS*min F ECD_1	Area µS*min CL ECD_1	Area µS*min NO2N ECD_1	Area µS*min BR ECD_1	Area µS*min NO3N ECD_1	Area µS*min PO4 ECD_1	Area µS*min SO4 ECD_1
2	ICAL, L1,S18	0.017161	0.040074	0.013455	0.009416	0.017801	0.019729	0.053320
3	ICAL, L2,S18	0.098503	0.147367	0.069403	0.062700	0.095842	0.108648	0.251558
4	ICAL, L3,S18	0.402286	0.629116	0.303748	0.265105	0.397785	0.496547	1.098657
5	ICAL, L4,S18	1.029135	1.617474	0.759872	0.635291	0.967493	1.248459	2.795566
6	ICAL, L5,S18	2.192959	3.519967	1.584757	1.345233	2.063887	2.698316	6.017213

No.	Name	Height µS F ECD_1	Height µS CL ECD_1	Height µS NO2N ECD_1	Height µS BR ECD_1	Height µS NO3N ECD_1	Height µS PO4 ECD_1	Height µS SO4 ECD_1
2	ICAL, L1,S18	0.119928	0.332400	0.084748	0.057026	0.074652	0.061912	0.150120
3	ICAL, L2,S18	0.624736	1.151678	0.427428	0.312212	0.389908	0.332100	0.786078
4	ICAL, L3,S18	2.934282	5.019222	1.815278	1.334402	1.670152	1.537158	3.389914
5	ICAL, L4,S18	7.925782	12.944296	4.498282	3.261344	4.151488	4.029644	8.663126
6	ICAL, L5,S18	18.187422	28.959684	9.537670	7.026382	9.031478	9.108810	19.245860

No.	Name	Amount mg/L-mg/Kg F ECD_1	Amount mg/L-mg/Kg CL ECD_1	Amount mg/L-mg/Kg NO2N ECD_1	Amount mg/L-mg/Kg BR ECD_1	Amount mg/L-mg/Kg NO3N ECD_1	Amount mg/L-mg/Kg PO4 ECD_1	Amount mg/L-mg/Kg SO4 ECD_1
2	ICAL, L1,S18	0.088509	0.268287	0.045841	0.152565	0.047883	0.169101	0.510110
3	ICAL, L2,S18	0.505245	0.980298	0.235735	1.012006	0.256628	0.925752	2.392929
4	ICAL, L3,S18	2.023146	4.072203	1.018944	4.218898	1.046971	4.127700	10.208976
5	ICAL, L4,S18	4.985728	9.958921	2.491093	9.866203	2.470614	9.938275	24.894346
6	ICAL, L5,S18	10.002414	20.006659	5.001430	20.023174	5.005056	20.009590	50.016725

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\073.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/14/2006 3:49:55 PM by ic_analyst

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Inhibit Integration	On	ECD_1
2	2.250	Sensitivity	0.001 "[Signal]"	ECD_1
3	2.250	Minimum Area	0.001 "[Signal]*min"	ECD_1
4	2.250	Peak Slice	0.50 s	ECD_1
5	2.500	Inhibit Integration	Off	ECD_1

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\073.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/14/2006 3:49:55 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Amount ICAL, L1,S1888,500
1	F	2.860 min	5.000 RG	External	Area	Quad	Auto		0.100000
2	CL	4.200 min	5.000 RG	External	Area	Quad	Auto		0.200000
3	NO2N	5.000 min	5.000 RG	External	Area	Quad	Auto		0.050000
4	BR	6.377 min	5.000 RG	External	Area	Quad	Auto		0.200000
5	NO3N	7.207 min	10.000 RG	External	Area	Quad	Auto		0.050000
6	*PO4*	*9.213 min*	*10.000 RG*	*External*	*Area*	*Quad*	*Auto*		*0.200000*
7	SO4	10.970 min	10.000 RG	External	Area	Quad	Auto		0.500000

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\073.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/14/2006 3:49:55 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Amount ICAL, L2,S1888,100	Amount ICAL, L3,S1888,25	Amount ICAL, L4,S1888,10	Amount ICAL, L5,S1888,5	Comment
1	F	2.860 min	0.500000	2.000000	5.000000	10.000000	
2	CL	4.200 min	1.000000	4.000000	10.000000	20.000000	
3	NO2N	5.000 min	0.250000	1.000000	2.500000	5.000000	
4	BR	6.377 min	1.000000	4.000000	10.000000	20.000000	
5	NO3N	7.207 min	0.250000	1.000000	2.500000	5.000000	
6	*PO4*	*9.213 min*	*1.000000*	*4.000000*	*10.000000*	*20.000000*	
7	SO4	10.970 min	2.500000	10.000000	25.000000	50.000000	

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\073.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/14/2006 3:49:55 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Resp.Fact.	Amount ICAL, L1,S1888,500	Amount ICAL, L2,S1888,100	Amount ICAL, L3,S1888,25	Amount ICAL, L4,S1888,10
1	F	2.860 min	1.000000	0.100000	0.500000	2.000000	5.000000
2	CL	4.200 min	1.000000	0.200000	1.000000	4.000000	10.000000
3	NO2N	5.000 min	1.000000	0.050000	0.250000	1.000000	2.500000
4	BR	6.377 min	1.000000	0.200000	1.000000	4.000000	10.000000
5	NO3N	7.207 min	1.000000	0.050000	0.250000	1.000000	2.500000
6	*PO4*	*9.213 min*	*1.000000*	*0.200000*	*1.000000*	*4.000000*	*10.000000*
7	SO4	10.970 min	1.000000	0.500000	2.500000	10.000000	25.000000

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\073.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/14/2006 3:49:55 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Amount	Comment
			ICAL, L5,S1888,5	
1	F	2.860 min	10.000000	
2	CL	4.200 min	20.000000	
3	NO2N	5.000 min	5.000000	
4	BR	6.377 min	20.000000	
5	NO3N	7.207 min	5.000000	
6	*PO4*	*9.213 min*	*20.000000*	
7	SO4	10.970 min	50.000000	

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\073.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/14/2006 3:49:55 PM by ic_analyst

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time
1	☒	ICAL, L1,S1888,500	2	179	25.0	1.0000	1.0000	1.0000	3/1/2006 3:02:19 PM
2	☒	ICAL, L2,S1888,100	3	179	25.0	1.0000	1.0000	1.0000	3/1/2006 3:20:44 PM
3	☒	ICAL, L3,S1888,25	4	180	25.0	1.0000	1.0000	1.0000	3/1/2006 3:39:08 PM
4	☒	ICAL, L4,S1888,10	5	181	25.0	1.0000	1.0000	1.0000	3/1/2006 3:57:33 PM
5	☒	ICAL, L5,S1888,5	6	182	25.0	1.0000	1.0000	1.0000	3/1/2006 4:15:58 PM

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\073.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/14/2006 3:49:55 PM by ic_analyst

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Calib. Comment
1	☒	ICAL, L1,S1888,500	Ok
2	☒	ICAL, L2,S1888,100	Ok
3	☒	ICAL, L3,S1888,25	Ok
4	☒	ICAL, L4,S1888,10	Ok
5	☒	ICAL, L5,S1888,5	Ok

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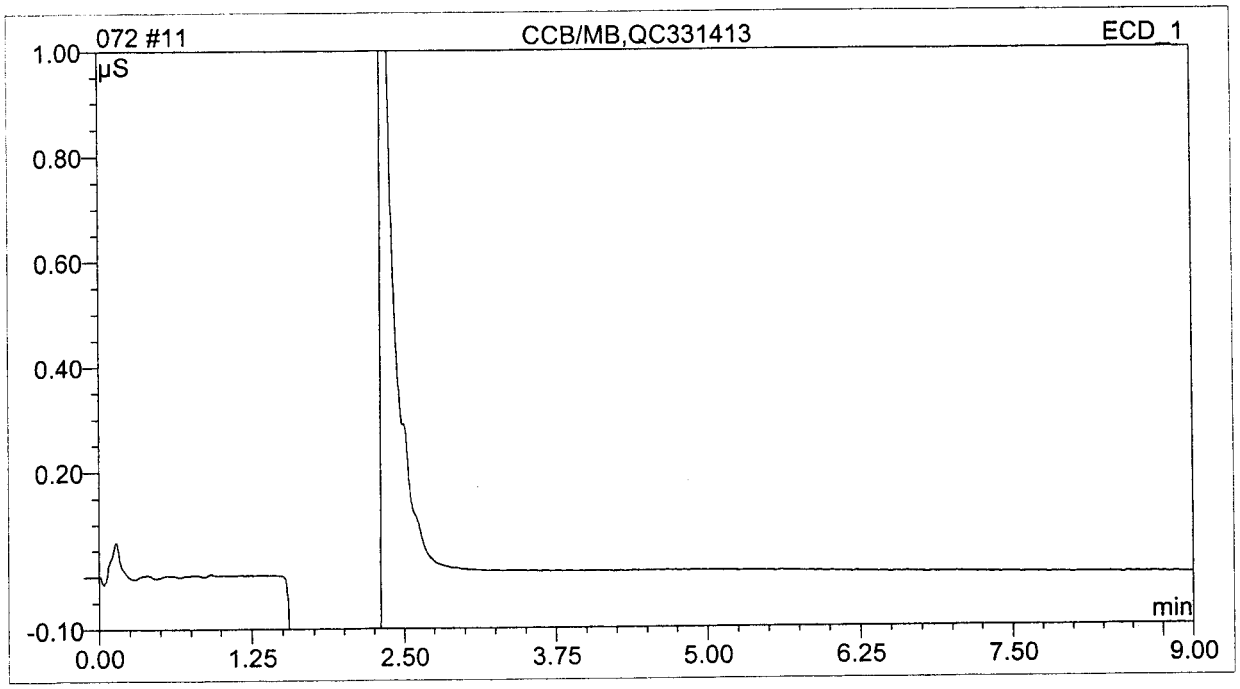
PERCHLORATE ANALYSIS REPORT DX320 - IC02

Sample Name:	CCB/MB,QC331413	**Sample No.:**	11
Sequence Name:	072	**Batch #:**	111285
Program Method:	IC02-CLO4	**Injection vol.:**	750.0
Quantitation Method:	IC02-CLO4_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC02-CLO4_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/13/2006 12:13 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount ug/L-ug/Kg	Amount ug/L-ug/Kg	Comment
n.a.	Perchlorate	n.a.	n.a.	n.a.	n.a.	ft s a10539346



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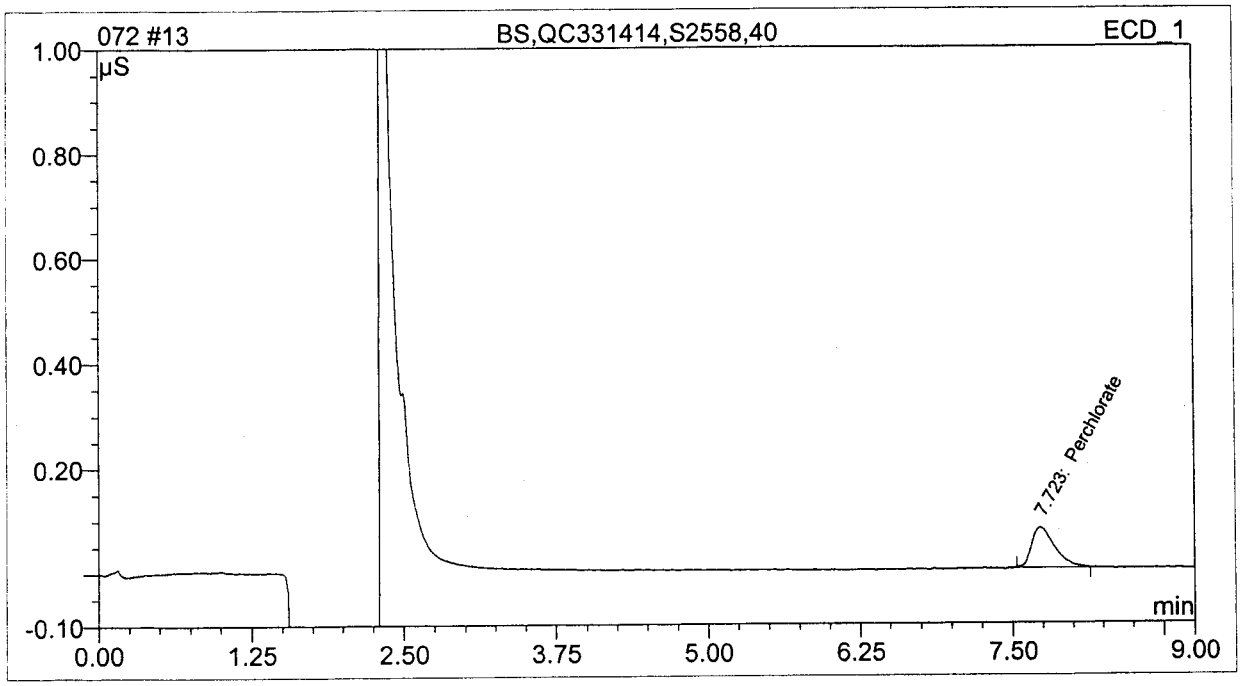
Curtis & Tompkins, Ltd.

PERCHLORATE ANALYSIS REPORT DX320 - IC02

Sample Name:	BS,QC331414,S2558,40	**Sample No.:**	13
Sequence Name:	072	**Batch #:**	111285
Program Method:	IC02-CLO4	**Injection vol.:**	750.0
Quantitation Method:	IC02-CLO4_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC02-CLO4_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/13/2006 12:40 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount ug/L-ug/Kg	Amount ug/L-ug/Kg	Comment
1	Perchlorate	7.723	0.017205	27.2991	27.2991	ft s a01539346



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REVIEWED BY:

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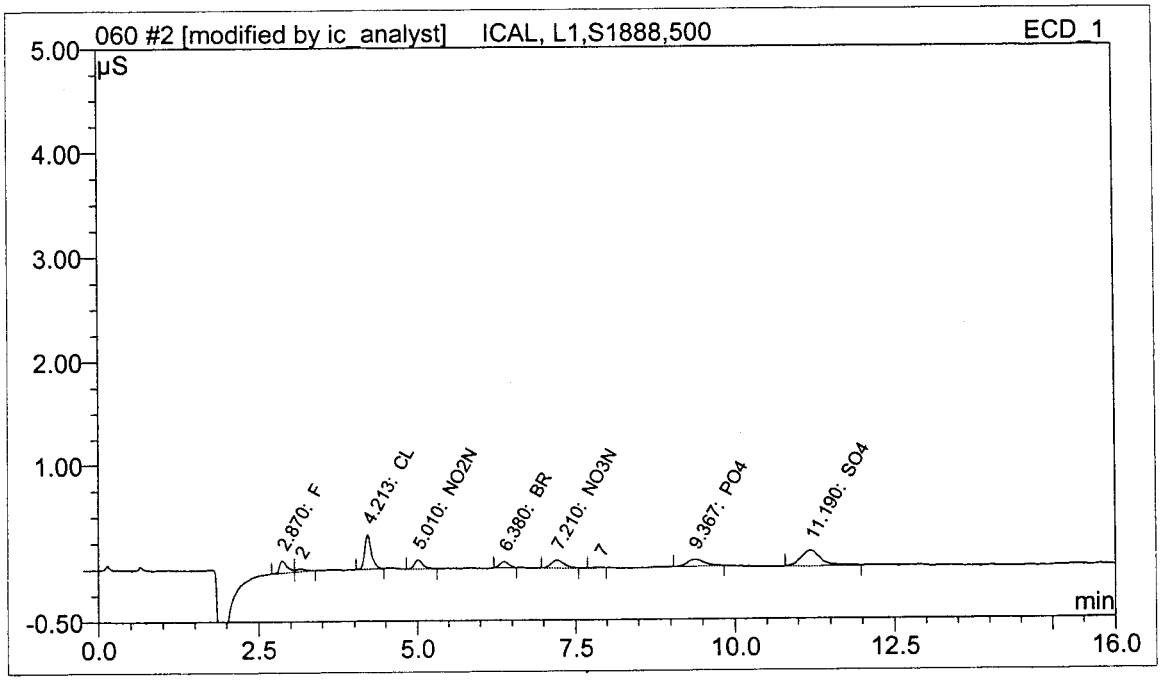
ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L1,S1888,500	**Sample No.:**	2
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:02 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.017161	0.0885	0.0885	
3	CL	4.213	0.040074	0.2683	0.2683	
4	NO2N	5.010	0.013455	0.0458	0.0458	
5	BR	6.380	0.009416	0.1526	0.1526	
6	NO3N	7.210	0.017801	0.0479	0.0479	
8	PO4	9.367	0.019729	0.1691	0.1691	
9	SO4	11.190	0.053320	0.5101	0.5101	



ANALYZED BY: _____

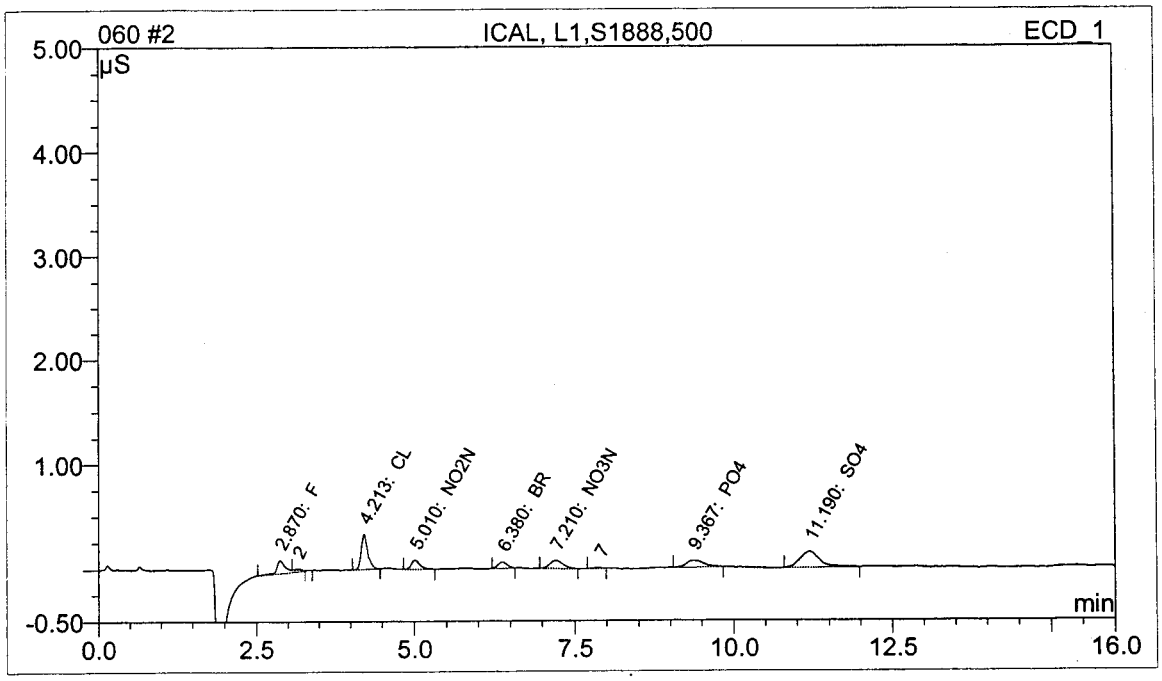
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L1,S1888,500	**Sample No.:**	2
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:02 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.023606	0.1216	0.1216	
3	CL	4.213	0.040074	0.2683	0.2683	
4	NO2N	5.010	0.013455	0.0458	0.0458	
5	BR	6.380	0.009416	0.1526	0.1526	
6	NO3N	7.210	0.017801	0.0479	0.0479	
8	PO4	9.367	0.019729	0.1691	0.1691	
9	SO4	11.190	0.053320	0.5101	0.5101	



ANALYZED BY: _____

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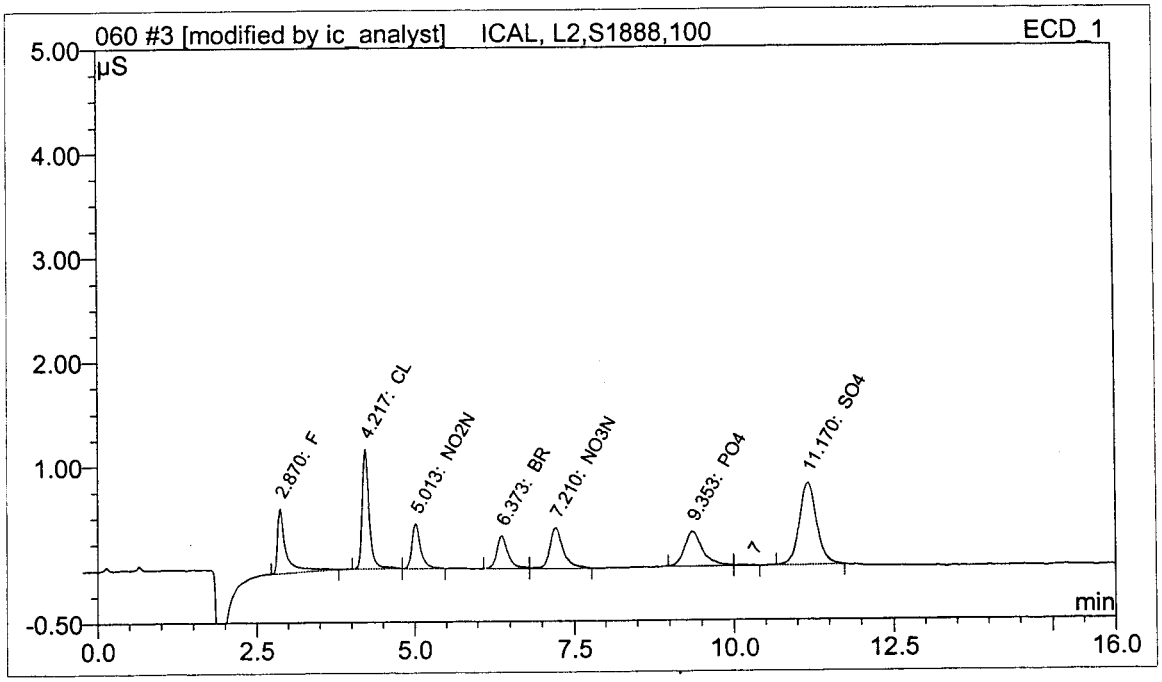
Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L2,S1888,100	**Sample No.:**	3
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:20 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.098503	0.5052	0.5052	
2	CL	4.217	0.147367	0.9803	0.9803	
3	NO2N	5.013	0.069403	0.2357	0.2357	
4	BR	6.373	0.062700	1.0120	1.0120	
5	NO3N	7.210	0.095842	0.2566	0.2566	
6	PO4	9.353	0.108648	0.9258	0.9258	
8	SO4	11.170	0.251558	2.3929	2.3929	



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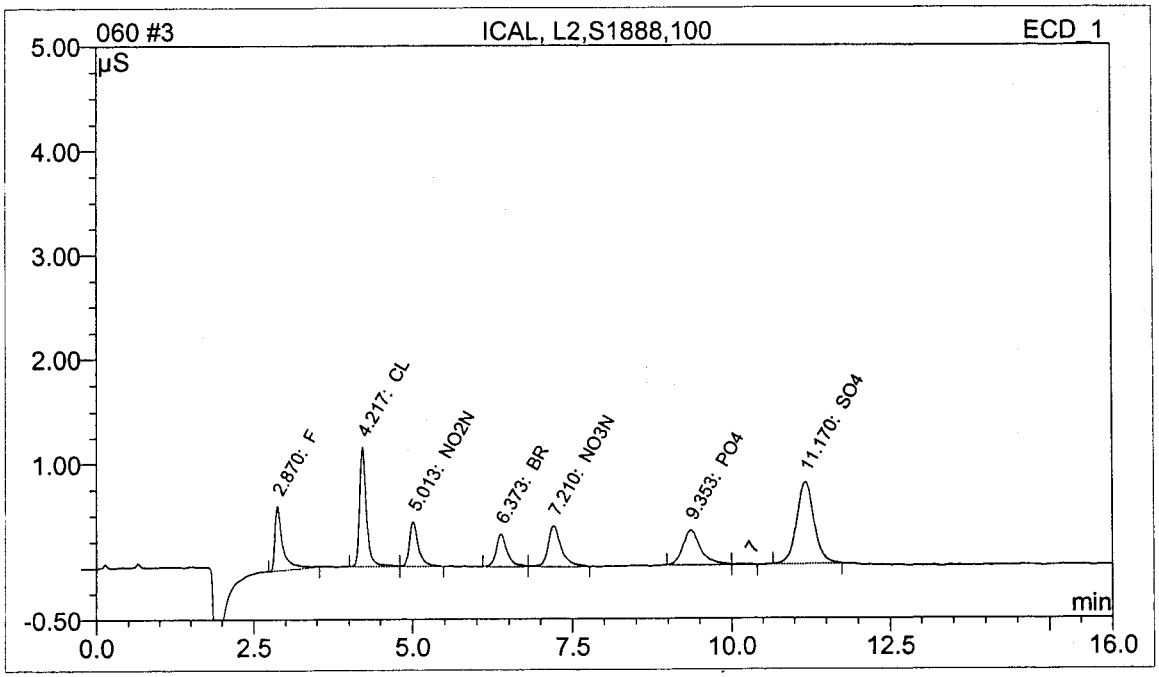
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L2,S1888,100	**Sample No.:**	3
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:20 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.089672	0.4613	0.4613	
2	CL	4.217	0.147367	0.9803	0.9803	
3	NO2N	5.013	0.069403	0.2357	0.2357	
4	BR	6.373	0.062700	1.0120	1.0120	
5	NO3N	7.210	0.095842	0.2566	0.2566	
6	PO4	9.353	0.108648	0.9258	0.9258	
8	SO4	11.170	0.251558	2.3929	2.3929	



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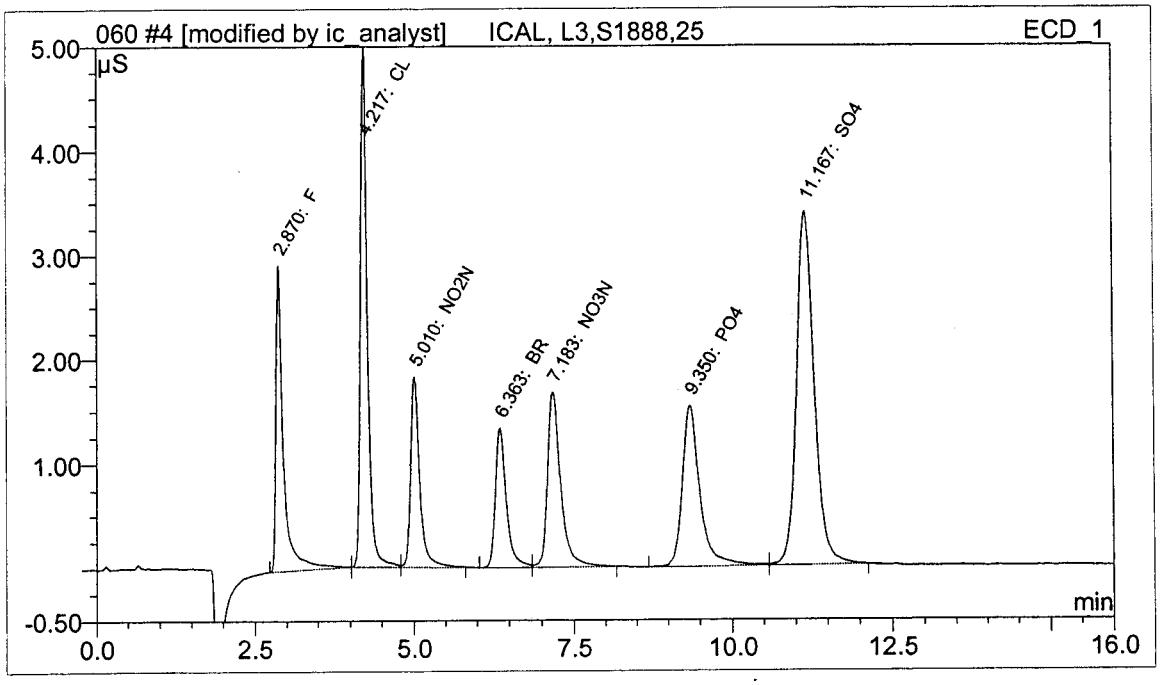
ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L3,S1888,25	**Sample No.:**	4
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:39 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.402286	2.0231	2.0231	
2	CL	4.217	0.629116	4.0722	4.0722	
3	NO2N	5.010	0.303748	1.0189	1.0189	
4	BR	6.363	0.265105	4.2189	4.2189	
5	NO3N	7.183	0.397785	1.0470	1.0470	
6	PO4	9.350	0.496547	4.1277	4.1277	
7	SO4	11.167	1.098657	10.2090	10.2090	



ANALYZED BY: _____

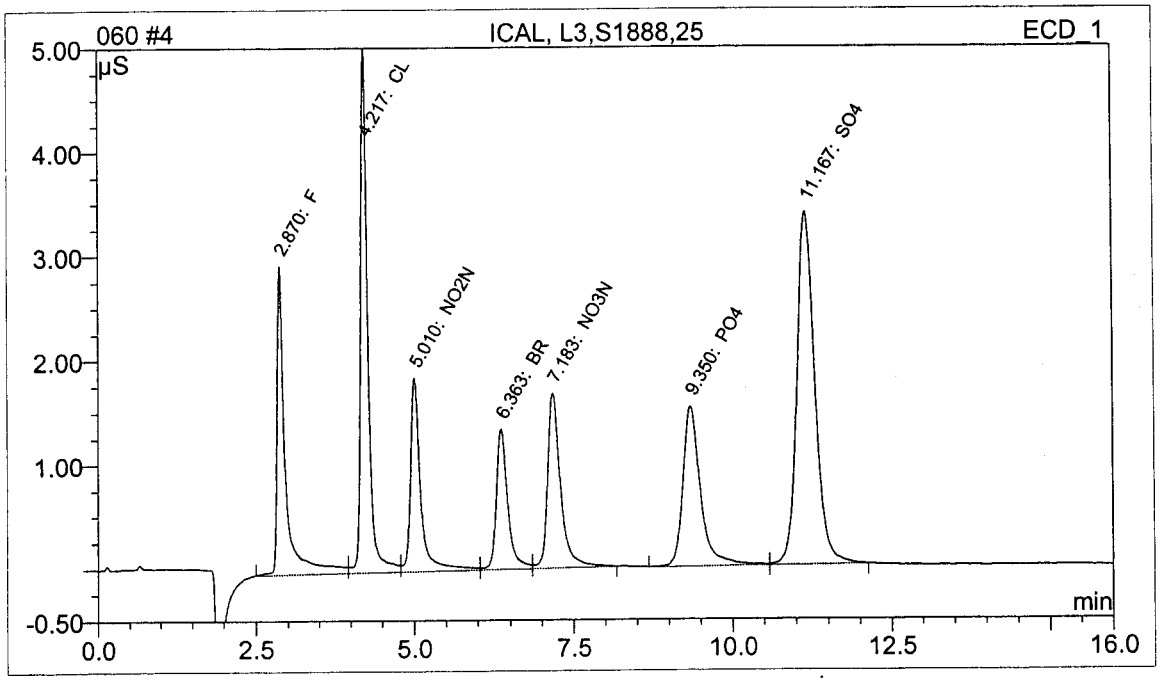
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L3,S1888,25	**Sample No.:**	4
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:39 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.455269	2.2018	2.2018	
2	CL	4.217	0.670131	4.2507	4.2507	
3	NO2N	5.010	0.344377	1.1110	1.1110	
4	BR	6.363	0.276408	4.3412	4.3412	
5	NO3N	7.183	0.404782	1.0595	1.0595	
6	PO4	9.350	0.496547	4.1277	4.1277	
7	SO4	11.167	1.098657	10.2090	10.2090	



ANALYZED BY: _____

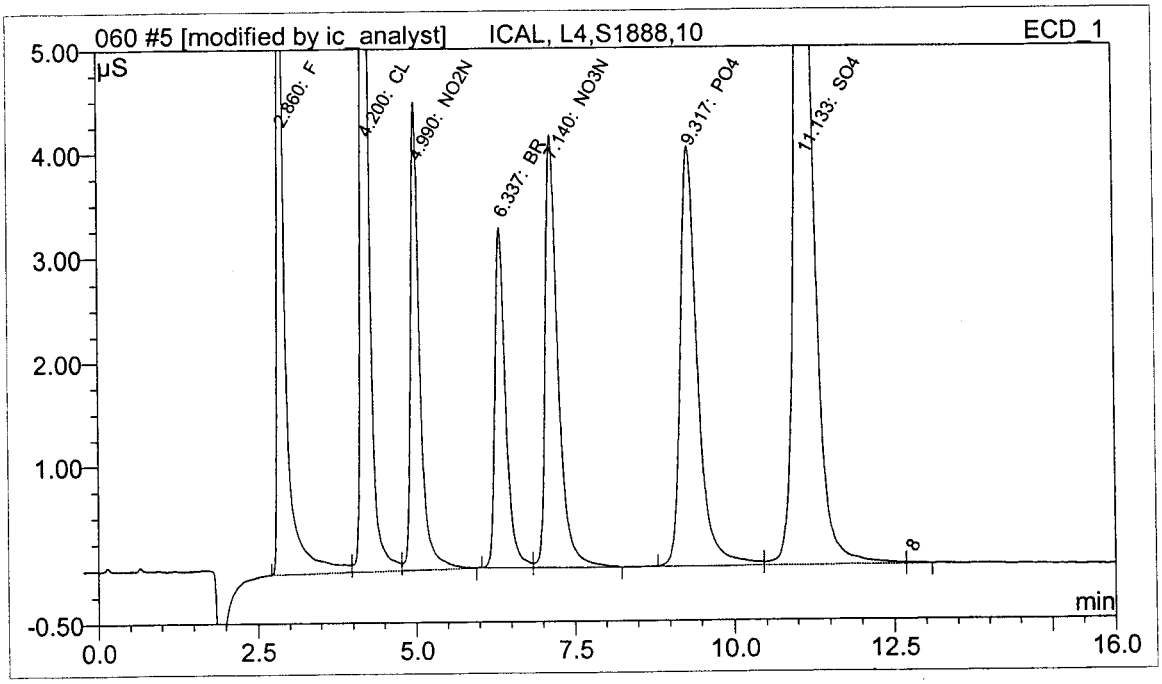
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L4,S1888,10	**Sample No.:**	5
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:57 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.860	1.029135	4.9857	4.9857	
2	CL	4.200	1.617474	9.9589	9.9589	
3	NO2N	4.990	0.759872	2.4911	2.4911	
4	BR	6.337	0.635291	9.8662	9.8662	
5	NO3N	7.140	0.967493	2.4706	2.4706	
6	PO4	9.317	1.248459	9.9383	9.9383	
7	SO4	11.133	2.795566	24.8943	24.8943	



ANALYZED BY: _____

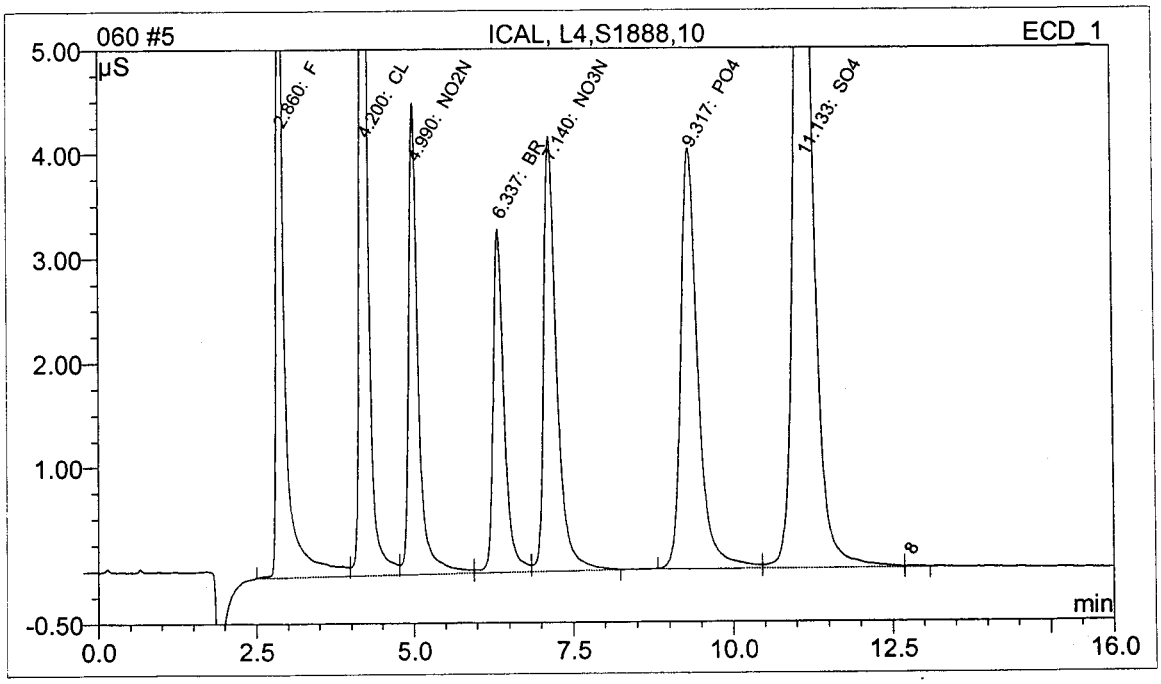
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L4,S1888,10	**Sample No.:**	5
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:57 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.860	1.056871	5.0244	5.0244	
2	CL	4.200	1.636258	9.9916	9.9916	
3	NO2N	4.990	0.792664	2.5227	2.5227	
4	BR	6.337	0.658007	9.9696	9.9696	
5	NO3N	7.140	0.980796	2.4805	2.4805	
6	PO4	9.317	1.248459	9.9383	9.9383	
7	SO4	11.133	2.795566	24.8943	24.8943	



ANALYZED BY: _____

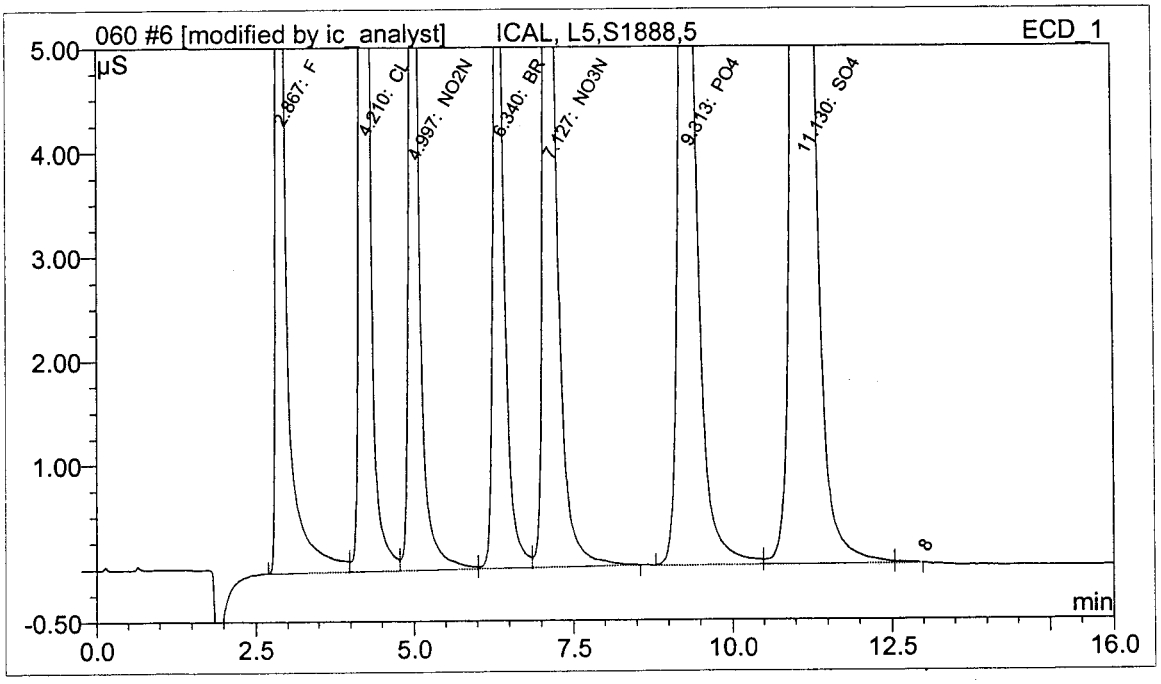
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L5,S1888,5	**Sample No.:**	6
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:15 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.867	2.192959	10.0024	10.0024	
2	CL	4.210	3.519967	20.0067	20.0067	
3	NO2N	4.997	1.584757	5.0014	5.0014	
4	BR	6.340	1.345233	20.0232	20.0232	
5	NO3N	7.127	2.063887	5.0051	5.0051	
6	PO4	9.313	2.698316	20.0096	20.0096	
7	SO4	11.130	6.017213	50.0167	50.0167	



ANALYZED BY: _____

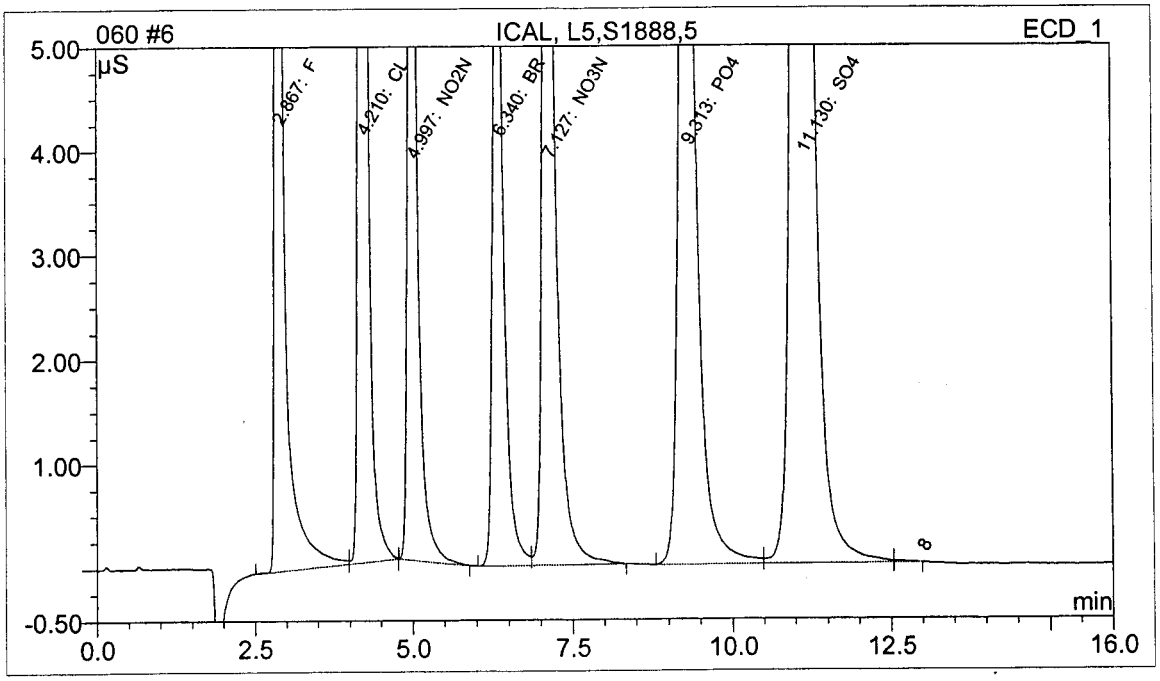
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L5,S1888,5	**Sample No.:**	6
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:15 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.867	2.155657	10.0007	10.0007	
2	CL	4.210	3.453075	20.0031	20.0031	
3	NO2N	4.997	1.510616	4.9988	4.9988	
4	BR	6.340	1.331781	20.0216	20.0216	
5	NO3N	7.127	2.045893	5.0047	5.0047	
6	PO4	9.313	2.698316	20.0096	20.0096	
7	SO4	11.130	6.017213	50.0167	50.0167	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185622 IC Water
EPA 300.0

Inst : IC03
Calnum : 626087283001 Cal Date: 01-MAR-2006

ICV 626087283007 (060_7.000 01-MAR-2006) stds: S1085 (5X)

Analyte	Spiked	Quant	Units	%D	Max	Flags
Fluoride	1.000	0.9473	mg/L	-5	10	
Chloride	2.000	1.920	mg/L	-4	10	
Nitrogen, Nitrite	0.5000	0.4860	mg/L	-3	10	
Nitrogen, Nitrate	0.5000	0.4606	mg/L	-8	10	
Sulfate	5.000	5.047	mg/L	1	10	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 300.0

Inst : IC03
Seqnum : 626087283007
Cal : 626087283001
Standards: S1085 (5X)

File : 060_7.000
Caldate: 01-MAR-2006

IDF : 1.0
Time : 01-MAR-2006 16:34

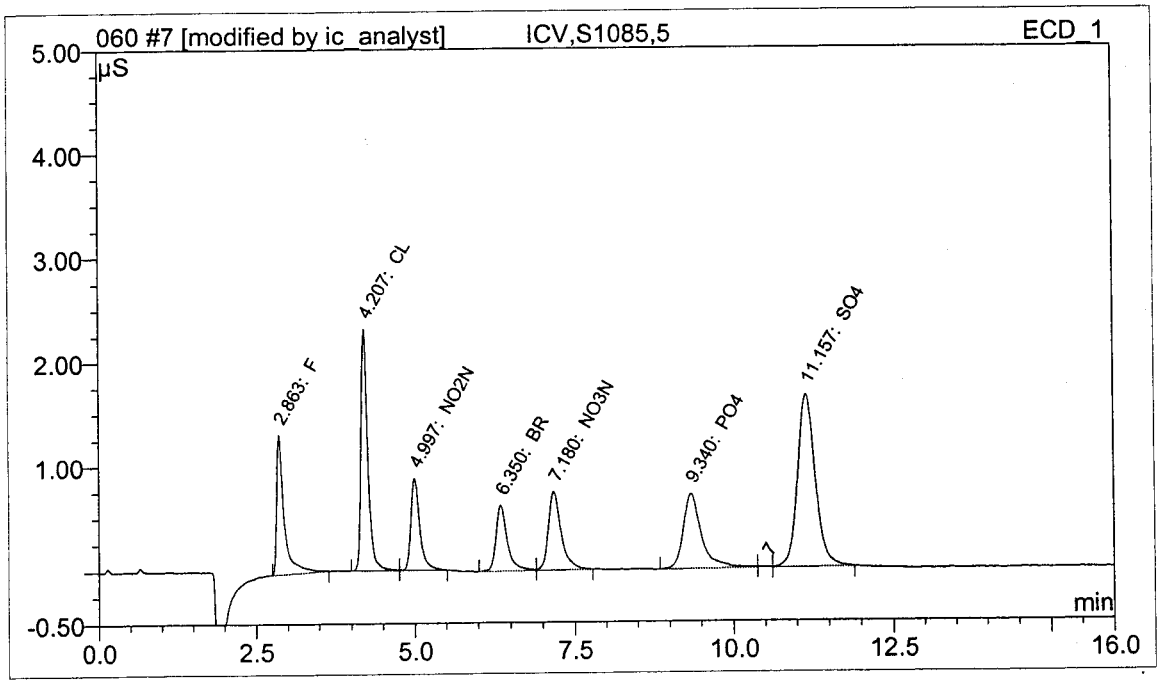
Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Fluoride	0.1990	0.1858	1.000	0.9473	mg/L	-5	10	
Chloride	0.1686	0.1455	2.000	1.920	mg/L	-4	10	
Nitrogen, Nitrite	0.2943	0.2873	0.5000	0.4860	mg/L	-3	10	
Bromide	0.0614	0.0638	2.000	2.050	mg/L	2	10	
Nitrogen, Nitrate	0.3874	0.3456	0.5000	0.4606	mg/L	-8	10	
Orthophosphate (as P)	0.1182	0.1201	2.000	2.029	mg/L	1	10	
Sulfate	0.1099	0.1070	5.000	5.047	mg/L	1	10	

MRS 3/2/06

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:34 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.863	0.185760	0.9473	0.9473	
2	CL	4.207	0.291093	1.9202	1.9202	
3	NO2N	4.997	0.143651	0.4860	0.4860	
4	BR	6.350	0.127568	2.0496	2.0496	
5	NO3N	7.180	0.172776	0.4606	0.4606	
6	PO4	9.340	0.240207	2.0292	2.0292	
8	SO4	11.157	0.534812	5.0468	5.0468	



ANALYZED BY: _____

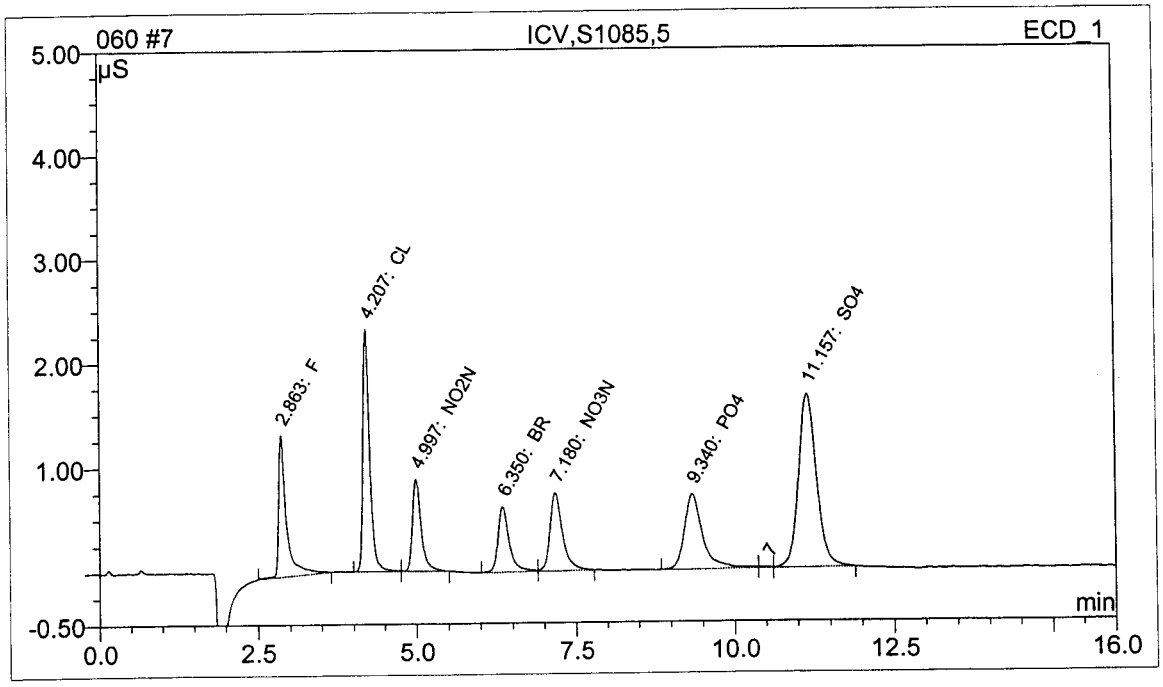
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:34 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.863	0.193974	0.9887	0.9887	
2	CL	4.207	0.291093	1.9202	1.9202	
3	NO2N	4.997	0.143651	0.4860	0.4860	
4	BR	6.350	0.127568	2.0496	2.0496	
5	NO3N	7.180	0.172776	0.4606	0.4606	
6	PO4	9.340	0.240207	2.0292	2.0292	
8	SO4	11.157	0.534812	5.0468	5.0468	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CONTINUING CALIBRATION SUMMARY FOR 185622 IC Water
Curtis & Tompkins Laboratories

Analyte: Fluoride

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606110408007	17-MAR-2006 15:15	606046871001	01-FEB-2006	0.2814	0.2524	0.5000	0.4507	mg/L	-10	10	
IC01	P	606110408018	17-MAR-2006 19:31	606046871001	01-FEB-2006	0.2814	0.2661	2.0000	1.8702	mg/L	-6	10	
IC01	P	606110408030	17-MAR-2006 23:01	606046871001	01-FEB-2006	0.2814	0.2947	5.0000	5.0031	mg/L	0	10	
IC01	P	606110408044	18-MAR-2006 03:06	606046871001	01-FEB-2006	0.2814	0.2647	0.5000	0.4726	mg/L	-5	10	
IC03	P	626110354009	17-MAR-2006 14:56	626087283001	01-MAR-2006	0.1990	0.1873	0.5000	0.4804	mg/L	-4	10	
IC03	P	626110354020	17-MAR-2006 19:18	626087283001	01-MAR-2006	0.1990	0.1965	2.0000	1.9772	mg/L	-1	10	
IC03	P	626110354032	17-MAR-2006 22:59	626087283001	01-MAR-2006	0.1990	0.2156	5.0000	5.2073	mg/L	4	10	
IC03	P	626110354053	18-MAR-2006 05:26	626087283001	01-MAR-2006	0.1990	0.1838	0.5000	0.4716	mg/L	-6	10	
IC03	P	626110354067	18-MAR-2006 09:43	626087283001	01-MAR-2006	0.1990	0.2050	2.0000	2.0613	mg/L	3	10	

CONTINUING CALIBRATION SUMMARY FOR 185622 IC Water
Curtis & Tompkins Laboratories

Analyte: Chloride

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606110408007	17-MAR-2006 15:15	606046871001	01-FEB-2006	0.1842	0.1694	1.0000	0.9676	mg/L	-3	10	
IC01	P	606110408018	17-MAR-2006 19:31	606046871001	01-FEB-2006	0.1842	0.1756	4.0000	3.9071	mg/L	-2	10	
IC01	P	606110408030	17-MAR-2006 23:01	606046871001	01-FEB-2006	0.1842	0.1958	10.000	10.304	mg/L	3	10	
IC01	P	606110408044	18-MAR-2006 03:06	606046871001	01-FEB-2006	0.1842	0.1735	1.0000	0.9904	mg/L	-1	10	
IC01	P	606110408055	18-MAR-2006 06:19	606046871001	01-FEB-2006	0.1842	0.1867	4.0000	4.1443	mg/L	4	10	
IC03	P	626110354009	17-MAR-2006 14:56	626087283001	01-MAR-2006	0.1686	0.1397	1.0000	0.9299	mg/L	-7	10	
IC03	P	626110354020	17-MAR-2006 19:18	626087283001	01-MAR-2006	0.1686	0.1476	4.0000	3.8305	mg/L	-4	10	
IC03	P	626110354032	17-MAR-2006 22:59	626087283001	01-MAR-2006	0.1686	0.1641	10.000	10.091	mg/L	1	10	
IC03	P	626110354053	18-MAR-2006 05:26	626087283001	01-MAR-2006	0.1686	0.1466	1.0000	0.9752	mg/L	-2	10	
IC03	P	626110354067	18-MAR-2006 09:43	626087283001	01-MAR-2006	0.1686	0.1544	4.0000	4.0011	mg/L	0	10	
IC03	P	626110354078	18-MAR-2006 13:06	626087283001	01-MAR-2006	0.1686	0.1638	10.000	10.074	mg/L	1	10	

CONTINUING CALIBRATION SUMMARY FOR 185622 IC Water
Curtis & Tompkins Laboratories

Analyte: Nitrogen, Nitrite

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606110408007	17-MAR-2006 15:15	606046871001	01-FEB-2006	0.3733	0.3600	0.2500	0.2509	mg/L	0	10	
IC01	P	606110408018	17-MAR-2006 19:31	606046871001	01-FEB-2006	0.3733	0.3478	1.0000	0.9598	mg/L	-4	10	
IC01	P	606110408030	17-MAR-2006 23:01	606046871001	01-FEB-2006	0.3733	0.3746	2.5000	2.5295	mg/L	1	10	
IC01	P	606110408044	18-MAR-2006 03:06	606046871001	01-FEB-2006	0.3733	0.3505	0.2500	0.2443	mg/L	-2	10	
IC03	P	626110354009	17-MAR-2006 14:56	626087283001	01-MAR-2006	0.2943	0.2760	0.2500	0.2344	mg/L	-6	10	
IC03	P	626110354020	17-MAR-2006 19:18	626087283001	01-MAR-2006	0.2943	0.2830	1.0000	0.9504	mg/L	-5	10	
IC03	P	626110354032	17-MAR-2006 22:59	626087283001	01-MAR-2006	0.2943	0.3098	2.5000	2.5374	mg/L	1	10	
IC03	P	626110354053	18-MAR-2006 05:26	626087283001	01-MAR-2006	0.2943	0.2877	0.2500	0.2443	mg/L	-2	10	
IC03	P	626110354067	18-MAR-2006 09:43	626087283001	01-MAR-2006	0.2943	0.3025	1.0000	1.0150	mg/L	1	10	

CONTINUING CALIBRATION SUMMARY FOR 185622 IC Water
Curtis & Tompkins Laboratories

Analyte: Nitrogen, Nitrate

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606110408007	17-MAR-2006 15:15	606046871001	01-FEB-2006	0.4558	0.4425	0.2500	0.2502	mg/L	0	10	
IC01	P	606110408018	17-MAR-2006 19:31	606046871001	01-FEB-2006	0.4558	0.4438	1.0000	0.9895	mg/L	-1	10	
IC01	P	606110408030	17-MAR-2006 23:01	606046871001	01-FEB-2006	0.4558	0.4834	2.5000	2.6150	mg/L	5	10	
IC01	P	606110408044	18-MAR-2006 03:06	606046871001	01-FEB-2006	0.4558	0.4432	0.2500	0.2506	mg/L	0	10	
IC03	P	626110354009	17-MAR-2006 14:56	626087283001	01-MAR-2006	0.3874	0.3541	0.2500	0.2371	mg/L	-5	10	
IC03	P	626110354020	17-MAR-2006 19:18	626087283001	01-MAR-2006	0.3874	0.3694	1.0000	0.9737	mg/L	-3	10	
IC03	P	626110354032	17-MAR-2006 22:59	626087283001	01-MAR-2006	0.3874	0.3933	2.5000	2.5091	mg/L	0	10	
IC03	P	626110354053	18-MAR-2006 05:26	626087283001	01-MAR-2006	0.3874	0.3702	0.2500	0.2479	mg/L	-1	10	
IC03	P	626110354067	18-MAR-2006 09:43	626087283001	01-MAR-2006	0.3874	0.3858	1.0000	1.0161	mg/L	2	10	
IC03	P	626110354078	18-MAR-2006 13:06	626087283001	01-MAR-2006	0.3874	0.4044	2.5000	2.5762	mg/L	3	10	

CONTINUING CALIBRATION SUMMARY FOR 185622 IC Water
Curtis & Tompkins Laboratories

Analyte: Sulfate

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606110408007	17-MAR-2006 15:15	606046871001	01-FEB-2006	0.1305	0.1187	2.5000	2.3403	mg/L	-6	10	
IC01	P	606110408018	17-MAR-2006 19:31	606046871001	01-FEB-2006	0.1305	0.1282	10.000	9.9312	mg/L	-1	10	
IC01	P	606110408030	17-MAR-2006 23:01	606046871001	01-FEB-2006	0.1305	0.1394	25.000	26.014	mg/L	4	10	
IC01	P	606110408044	18-MAR-2006 03:06	606046871001	01-FEB-2006	0.1305	0.1234	2.5000	2.4330	mg/L	-3	10	
IC01	P	606110408055	18-MAR-2006 06:19	606046871001	01-FEB-2006	0.1305	0.1355	10.000	10.480	mg/L	5	10	
IC03	P	626110354009	17-MAR-2006 14:56	626087283001	01-MAR-2006	0.1099	0.0990	2.5000	2.3551	mg/L	-6	10	
IC03	P	626110354020	17-MAR-2006 19:18	626087283001	01-MAR-2006	0.1099	0.1046	10.000	9.7352	mg/L	-3	10	
IC03	P	626110354032	17-MAR-2006 22:59	626087283001	01-MAR-2006	0.1099	0.1130	25.000	25.144	mg/L	1	10	
IC03	P	626110354053	18-MAR-2006 05:26	626087283001	01-MAR-2006	0.1099	0.1065	2.5000	2.5326	mg/L	1	10	
IC03	P	626110354067	18-MAR-2006 09:43	626087283001	01-MAR-2006	0.1099	0.1091	10.000	10.138	mg/L	1	10	
IC03	P	626110354078	18-MAR-2006 13:06	626087283001	01-MAR-2006	0.1099	0.1141	25.000	25.359	mg/L	1	10	

CURTIS & TOMPKINS BLANK USER REPORT FOR 185622 IC Water
EPA 300.0

Inst	: IC01	Lab ID	: QC332168		
Seqnum	: 606110408008.1	Matrix	: Water		
File	: 076_8.000	Batch	: 111464	Time	: 17-MAR-2006 15:33
IDF	: 1.0	PDF	: 1.0	Units	: mg/L
Cal	: 606046871001	Caldate	: 01-FEB-2006		

Analyte	Result	RL	Flags
Fluoride	ND	0.10	
Chloride	ND	0.20	
Nitrogen, Nitrite	ND	0.05	
Nitrogen, Nitrate	ND	0.05	
Sulfate	ND	0.50	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185622 IC Water
EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606110408019 File : 076_19.000 Time : 17-MAR-2006 19:48
Cal : 606046871001 Caldate: 01-FEB-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.006664	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185622 IC Water
EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606110408031 File : 076_31.000 Time : 17-MAR-2006 23:18
Cal : 606046871001 Caldate: 01-FEB-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.006664	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185622 IC Water
EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606110408045 File : 076_45.000 Time : 18-MAR-2006 03:23
Cal : 606046871001 Caldate: 01-FEB-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.006664	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185622 IC Water
EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606110408056 File : 076_56.000 Time : 18-MAR-2006 06:36
Cal : 606046871001 Caldate: 01-FEB-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	[0.006758]	0.05000	0.006664	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

CURTIS & TOMPKINS BLANK USER REPORT FOR 185622 IC Water
EPA 300.0

Inst	: IC03	Lab ID	: QC332159		
Seqnum	: 626110354010.2	Matrix	: Water		
File	: 076_10.000	Batch	: 111462	Time	: 17-MAR-2006 15:14
IDF	: 1.0	PDF	: 1.0	Units	: mg/L
Cal	: 626087283001	Caldate	: 01-MAR-2006		

Analyte	Result	RL	Flags
Fluoride	ND	0.10	
Chloride	ND	0.20	
Nitrogen, Nitrite	ND	0.05	
Nitrogen, Nitrate	ND	0.05	
Sulfate	ND	0.50	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185622 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626110354021 File : 076_21.000 Time : 17-MAR-2006 19:37
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185622 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626110354033 File : 076_33.000 Time : 17-MAR-2006 23:18
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185622 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626110354054 File : 076_54.000 Time : 18-MAR-2006 05:44
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	[0.01633]	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185622 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626110354068 File : 076_68.000 Time : 18-MAR-2006 10:02
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185622 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626110354079 File : 076_79.000 Time : 18-MAR-2006 13:24
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

SEQUENCE SUMMARY FOR 185622 IC Water
Curtis & Tompkins Laboratories

Sequence: 606046871 Instrument: IC01 Ion Chromatograph Begun: 01-FEB-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	032_1.00	IB				01-FEB-2006 13:11	1.0			25				
002	032_2.00	ICAL	L1			01-FEB-2006 13:28	1.0						1	
003	032_3.00	ICAL	L2			01-FEB-2006 13:46	1.0						1	
004	032_4.00	ICAL	L3			01-FEB-2006 14:03	1.0						1	
005	032_5.00	ICAL	L4			01-FEB-2006 14:21	1.0						1	
006	032_6.00	ICAL	L5			01-FEB-2006 14:38	1.0						1	
007	032_7.00	ICV				01-FEB-2006 14:56	1.0	1		25			2	
008	032_8.00	ICB/MB	QC326493	110078	Water	01-FEB-2006 15:13	1.0	1		25				
009	032_9.00	BS	QC326494	110078	Water	01-FEB-2006 15:31	1.0	1		25			1	
010	032_10.0	BSD	QC326495	110078	Water	01-FEB-2006 15:48	1.0	1		25			1	
011	032_11.0	SAMPLE	184665-001	110078	Water	01-FEB-2006 16:19	1.0	1		25				1:CL=32.4397
012	032_12.0	SAMPLE	184665-005	110078	Water	01-FEB-2006 16:37	1.0	1		25				1:CL=32.5432
013	032_13.0	MSS	184665-006	110078	Water	01-FEB-2006 16:54	1.0	2		25				1:CL=34.9403
014	032_14.0	SAMPLE	184665-007	110078	Water	01-FEB-2006 17:12	1.0			25				
015	032_15.0	SAMPLE	184646-001	110078	Water	01-FEB-2006 17:29	100.0			25				
016	032_16.0	SAMPLE	184646-002	110078	Water	01-FEB-2006 17:47	100.0			25				847
017	032_17.0	SAMPLE	184646-003	110078	Water	01-FEB-2006 18:04	100.0			25				
018	032_18.0	CCV	M	110078		01-FEB-2006 18:22	1.0			25			1	
019	032_19.0	CCB		110078		01-FEB-2006 18:39	1.0			25				
020	032_20.0	SAMPLE	184646-004	110078	Water	01-FEB-2006 18:57	100.0			25				
021	032_21.0	SAMPLE	184606-003	110078	Water	01-FEB-2006 19:14	1.0			25				1:CL=67.2883
022	032_22.0	SAMPLE	184606-006	110078	Water	01-FEB-2006 19:32	1.0	1		25				3:SO4=258.533
023	032_23.0	X	BLK	110078		01-FEB-2006 19:49	1.0							
024	032_24.0	SAMPLE	184665-008	110078	Water	01-FEB-2006 20:07	1.0			25				
025	032_25.0	SAMPLE	184665-009	110078	Water	01-FEB-2006 20:24	1.0	1		25				1:CL=23.2597
026	032_26.0	SAMPLE	184665-001	110078	Water	01-FEB-2006 20:42	2.0			25				
027	032_27.0	SAMPLE	184665-005	110078	Water	01-FEB-2006 20:59	2.0			25				
028	032_28.0	MSS	184665-006	110078	Water	01-FEB-2006 21:17	2.0	1		25				
029	032_29.0	MS	QC326496	110078	Water	01-FEB-2006 21:34	5.0	1		25			1	
030	032_30.0	MSD	QC326497	110078	Water	01-FEB-2006 21:52	5.0	1		25			1	
031	032_31.0	CCV	H	110078		01-FEB-2006 22:10	1.0	1		25			1	

Stds used: 1=S1888 2=S1085

SEQUENCE SUMMARY FOR 185622 IC Water
Curtis & Tompkins Laboratories

Sequence: 606046871 Instrument: IC01 Ion Chromatograph Begun: 01-FEB-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
032	032_32.0	CCB		110078		01-FEB-2006 22:27	1.0	1		25				
033	032_33.0	X	CCV	110078		01-FEB-2006 22:45	1.0						1	
034	032_34.0	X	CCB	110078		01-FEB-2006 23:02	1.0							
035	032_35.0	SAMPLE	184665-009	110078	Water	01-FEB-2006 23:20	2.0			25				
036	032_36.0	SAMPLE	184669-006	110078	Water	01-FEB-2006 23:37	100.0			25				
037	032_37.0	SAMPLE	184669-006	110078	Water	01-FEB-2006 23:55	10.0	1		25				1:NO3N=9.88433
038	032_38.0	X	BLK	110078		02-FEB-2006 00:12	1.0							
039	032_39.0	SAMPLE	184606-006	110078	Water	02-FEB-2006 00:30	2.0			25				2:SO4=142.830
040	032_40.0	X	BLK	110078		02-FEB-2006 00:47	1.0							
041	032_41.0	SAMPLE	184646-001	110078	Water	02-FEB-2006 01:05	1.0			25				
042	032_42.0	X	BLK	110078		02-FEB-2006 01:22	1.0							
043	032_43.0	SAMPLE	184646-002	110078	Water	02-FEB-2006 01:40	1.0			25				
044	032_44.0	X	BLK	110078		02-FEB-2006 01:57	1.0							
045	032_45.0	SAMPLE	184646-003	110078	Water	02-FEB-2006 02:15	1.0			25				
046	032_46.0	X	BLK	110078		02-FEB-2006 02:32	1.0							
047	032_47.0	SAMPLE	184646-004	110078	Water	02-FEB-2006 02:50	1.0			25				848
048	032_48.0	X	BLK	110078		02-FEB-2006 03:07	1.0							
049	032_49.0	X	BLK	110078		02-FEB-2006 03:25	1.0							
050	032_50.0	X	CCV	110078		02-FEB-2006 03:42	1.0						1	
051	032_51.0	X	CCB	110078		02-FEB-2006 04:00	1.0							
052	032_52.0	CCV	L	110078		02-FEB-2006 04:17	1.0	2		25			1	
053	032_53.0	CCB		110078		02-FEB-2006 04:35	1.0			25				
054	032_54.0	X	SHUTDOWN	110078		02-FEB-2006 04:52	1.0							

Stds used: 1=S1888 2=S1085

SEQUENCE SUMMARY FOR 185622 IC Water
Curtis & Tompkins Laboratories

Sequence: 626087283 Instrument: IC03 Ion Chromatograph Begun: 01-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	060_1.00	IB				01-MAR-2006 14:43	1.0		25				
002	060_2.00	ICAL	L1			01-MAR-2006 15:02	1.0					1	
003	060_3.00	ICAL	L2			01-MAR-2006 15:20	1.0					1	
004	060_4.00	ICAL	L3			01-MAR-2006 15:39	1.0					1	
005	060_5.00	ICAL	L4			01-MAR-2006 15:57	1.0					1	
006	060_6.00	ICAL	L5			01-MAR-2006 16:15	1.0					1	
007	060_7.00	ICV				01-MAR-2006 16:34	1.0		25			2	
008	060_8.00	ICB				01-MAR-2006 16:52	1.0		25				

849

Stds used: 1=S1888 2=S1085

SEQUENCE SUMMARY FOR 185622 IC Water
Curtis & Tompkins Laboratories

Sequence: 606110408 Instrument: IC01 Ion Chromatograph Begun: 17-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
007	076_7.00	CCV	L	111464		17-MAR-2006 15:15	1.0	1	25			1	
008	076_8.00	CCB/MB	QC332168	111464	Water	17-MAR-2006 15:33	1.0		25				
009	076_9.00	BS	QC332169	111464	Water	17-MAR-2006 15:50	1.0		25			1	
010	076_10.0	BSD	QC332170	111464	Water	17-MAR-2006 16:08	1.0		25			1	
011	076_11.0	MSS	185622-006	111464	Water	17-MAR-2006 17:28	1.0	2	25				1:CL=29.1656
012	076_12.0	SAMPLE	185622-005	111464	Water	17-MAR-2006 17:46	1.0	1	25				1:CL=29.2645
013	076_13.0	SAMPLE	185622-004	111464	Water	17-MAR-2006 18:03	1.0	1	25				1:CL=61.8640
014	076_14.0	SAMPLE	185622-003	111464	Water	17-MAR-2006 18:21	1.0	1	25				1:CL=41.0519
015	076_15.0	SAMPLE	185622-002	111464	Water	17-MAR-2006 18:38	1.0	2	25				2:SO4=91.4513
016	076_16.0	SAMPLE	185622-001	111464	Water	17-MAR-2006 18:56	1.0	3	25				3:CL=144.909
017	076_17.0	SAMPLE	185622-012	111464	Water	17-MAR-2006 19:13	1.0	2	25				2:SO4=68.7365
018	076_18.0	CCV	M	111464		17-MAR-2006 19:31	1.0	1	25			1	
019	076_19.0	CCB		111464		17-MAR-2006 19:48	1.0		25				
020	076_20.0	SAMPLE	185622-013	111464	Water	17-MAR-2006 20:06	1.0	2	25				2:CL=75.6799
021	076_21.0	SAMPLE	185622-011	111464	Water	17-MAR-2006 20:23	1.0	1	25				1:CL=30.6925
022	076_22.0	SAMPLE	185622-014	111464	Water	17-MAR-2006 20:41	1.0	3	25				3:CL=109.906
023	076_23.0	SAMPLE	185622-010	111464	Water	17-MAR-2006 20:58	1.0	1	25				1:CL=28.8092
024	076_24.0	SAMPLE	185622-015	111464	Water	17-MAR-2006 21:16	1.0	1	25				1:CL=109.470
025	076_25.0	SAMPLE	185622-009	111464	Water	17-MAR-2006 21:33	1.0	2	25				2:SO4=64.6311
026	076_26.0	SAMPLE	185622-016	111464	Water	17-MAR-2006 21:51	1.0	1	25				1:CL=49.8644
027	076_27.0	SAMPLE	185622-017	111464	Water	17-MAR-2006 22:08	1.0	1	25				1:CL=65.1751
028	076_28.0	SAMPLE	185622-008	111464	Water	17-MAR-2006 22:26	1.0	3	25				3:CL=81.9085
029	076_29.0	SAMPLE	185622-001	111464	Water	17-MAR-2006 22:43	25.0		25				
030	076_30.0	CCV	H	111464		17-MAR-2006 23:01	1.0	1	25			1	
031	076_31.0	CCB		111464		17-MAR-2006 23:18	1.0		25				
032	076_32.0	X	CCV	111464		17-MAR-2006 23:36	1.0					1	
033	076_33.0	X	CCB	111464		17-MAR-2006 23:53	1.0						
034	076_34.0	MSS	185622-006	111464	Water	18-MAR-2006 00:11	5.0	2	25				
035	076_35.0	MS	QC332171	111464	Water	18-MAR-2006 00:28	5.0		25			1	
036	076_36.0	MSD	QC332172	111464	Water	18-MAR-2006 00:46	5.0		25			1	
037	076_37.0	SAMPLE	185622-014	111464	Water	18-MAR-2006 01:03	25.0		25				

Stds used: 1=S1888

SEQUENCE SUMMARY FOR 185622 IC Water
Curtis & Tompkins Laboratories

Sequence: 606110408 Instrument: IC01 Ion Chromatograph Begun: 17-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
038	076_38.0	SAMPLE	185622-013	111464	Water	18-MAR-2006 01:21	10.0		25				
039	076_39.0	SAMPLE	185622-009	111464	Water	18-MAR-2006 01:38	10.0		25				
040	076_40.0	SAMPLE	185622-016	111464	Water	18-MAR-2006 01:56	10.0		25				
041	076_41.0	SAMPLE	185622-017	111464	Water	18-MAR-2006 02:13	10.0		25				
042	076_42.0	SAMPLE	185622-008	111464	Water	18-MAR-2006 02:31	10.0		25				
043	076_43.0	SAMPLE	185622-002	111464	Water	18-MAR-2006 02:48	25.0		25				
044	076_44.0	CCV	L	111464		18-MAR-2006 03:06	1.0	1	25			1	
045	076_45.0	CCB		111464		18-MAR-2006 03:23	1.0		25				
046	076_46.0	X	CCV	111464		18-MAR-2006 03:41	1.0					1	
047	076_47.0	X	CCB	111464		18-MAR-2006 03:59	1.0						
048	076_48.0	SAMPLE	185622-003	111464	Water	18-MAR-2006 04:16	5.0	1	25				
049	076_49.0	SAMPLE	185622-004	111464	Water	18-MAR-2006 04:34	10.0	1	25				
050	076_50.0	SAMPLE	185622-005	111464	Water	18-MAR-2006 04:51	5.0	1	25				
051	076_51.0	SAMPLE	185622-010	111464	Water	18-MAR-2006 05:09	10.0	1	25				
052	076_52.0	SAMPLE	185622-011	111464	Water	18-MAR-2006 05:26	10.0	1	25				
053	076_53.0	SAMPLE	185622-012	111464	Water	18-MAR-2006 05:44	10.0	1	25				851
054	076_54.0	SAMPLE	185622-015	111464	Water	18-MAR-2006 06:01	25.0	1	25				
055	076_55.0	CCV	M	111464		18-MAR-2006 06:19	1.0	3	25			1	
056	076_56.0	CCB		111464		18-MAR-2006 06:36	1.0		25				
057	076_57.0	X	CCV	111464		18-MAR-2006 06:54	1.0					1	
058	076_58.0	X	CCB	111464		18-MAR-2006 07:11	1.0						
059	076_59.0	X	SHUTDOWN	111464		18-MAR-2006 07:29	1.0						

Stds used: 1=S1888

SEQUENCE SUMMARY FOR 185622 IC Water
Curtis & Tompkins Laboratories

Sequence: 626110354 Instrument: IC03 Ion Chromatograph Begun: 17-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
007	076_7.00	X	PRIMER	111462		17-MAR-2006 14:19	1.0							
008	076_8.00	X	BLK	111462		17-MAR-2006 14:37	1.0							
009	076_9.00	CCV	L	111462		17-MAR-2006 14:56	1.0	1		25			1	
010	076_10.0	CCB/MB	QC332159	111462	Water	17-MAR-2006 15:14	1.0			25				
011	076_11.0	BS	QC332160	111462	Water	17-MAR-2006 15:33	1.0			25			1	
012	076_12.0	BSD	QC332161	111462	Water	17-MAR-2006 15:51	1.0			25			1	
013	076_13.0	SAMPLE	185610-001	111462	Water	17-MAR-2006 16:10	10.0			25				
014	076_14.0	SAMPLE	185610-002	111462	Water	17-MAR-2006 17:25	10.0			25				
015	076_15.0	SAMPLE	185610-001	111462	Water	17-MAR-2006 17:44	1.0	1		25				1:CL=21.1410
016	076_16.0	SAMPLE	185610-002	111462	Water	17-MAR-2006 18:02	1.0			25				
017	076_17.0	SAMPLE	185622-018	111462	Water	17-MAR-2006 18:23	1.0	1		25				1:CL=72.0696
018	076_18.0	MSS	185622-020	111462	Water	17-MAR-2006 18:41	1.0	2		25				1:SO4=85.9562
019	076_19.0	SAMPLE	185622-021	111462	Water	17-MAR-2006 19:00	50.0			25				
020	076_20.0	CCV	M	111462		17-MAR-2006 19:18	1.0			25			1	
021	076_21.0	CCB		111462		17-MAR-2006 19:37	1.0			25				
022	076_22.0	SAMPLE	185622-024	111462	Water	17-MAR-2006 19:55	50.0			25				852
023	076_23.0	SAMPLE	185622-025	111462	Water	17-MAR-2006 20:13	50.0			25				
024	076_24.0	SAMPLE	185622-026	111462	Water	17-MAR-2006 20:32	50.0			25				
025	076_25.0	MSS	185622-020	111462	Water	17-MAR-2006 20:50	5.0			25				
026	076_26.0	MS	QC332162	111462	Water	17-MAR-2006 21:09	5.0			25			1	
027	076_27.0	MSD	QC332163	111462	Water	17-MAR-2006 21:27	5.0			25			1	
028	076_28.0	SAMPLE	185622-023	111462	Water	17-MAR-2006 21:46	1.0	1		25				1:CL=104.379
029	076_29.0	SAMPLE	185622-021	111462	Water	17-MAR-2006 22:04	1.0	1		25				1:SO4=210.359
030	076_30.0	SAMPLE	185622-022	111462	Water	17-MAR-2006 22:22	1.0	1		25				1:CL=62.4641
031	076_31.0	SAMPLE	185622-027	111462	Water	17-MAR-2006 22:41	1.0	1		25				1:CL=70.3281
032	076_32.0	CCV	H	111462		17-MAR-2006 22:59	1.0			25			1	
033	076_33.0	CCB		111462		17-MAR-2006 23:18	1.0			25				
034	076_34.0	X	CCV	111462		17-MAR-2006 23:36	1.0						1	
035	076_35.0	X	CCB	111462		17-MAR-2006 23:54	1.0							
036	076_36.0	SAMPLE	185622-024	111462	Water	18-MAR-2006 00:13	1.0	2		25				2:SO4=253.430
037	076_37.0	X	BLK	111462		18-MAR-2006 00:31	1.0							

Stds used: 1=S1888

SEQUENCE SUMMARY FOR 185622 IC Water
Curtis & Tompkins Laboratories

Sequence: 626110354 Instrument: IC03 Ion Chromatograph Begun: 17-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
038	076_38.0	SAMPLE	185622-024	111462	Water	18-MAR-2006 00:50	2.0	2	25			2:CL=197.151	
039	076_39.0	X	BLK	111462		18-MAR-2006 01:08	1.0						
040	076_40.0	SAMPLE	185622-025	111462	Water	18-MAR-2006 01:26	1.0	3	25			3:CL=240.608	
041	076_41.0	X	BLK	111462		18-MAR-2006 01:45	1.0						
042	076_42.0	SAMPLE	185622-025	111462	Water	18-MAR-2006 02:03	2.0	2	25			2:CL=189.811	
043	076_43.0	X	BLK	111462		18-MAR-2006 02:22	1.0						
044	076_44.0	SAMPLE	185622-026	111462	Water	18-MAR-2006 02:40	2.0		25				
045	076_45.0	X	BLK	111462		18-MAR-2006 02:59	1.0						
046	076_46.0	SAMPLE	185622-026	111462	Water	18-MAR-2006 03:17	1.0	1	25			1:SO4=50.0742	
047	076_47.0	X	BLK	111462		18-MAR-2006 03:35	1.0						
048	076_48.0	X	BLK	111462		18-MAR-2006 03:54	1.0						
049	076_49.0	SAMPLE	185622-022	111462	Water	18-MAR-2006 04:12	10.0		25				
050	076_50.0	SAMPLE	185622-027	111462	Water	18-MAR-2006 04:31	25.0		25				
051	076_51.0	SAMPLE	185622-018	111462	Water	18-MAR-2006 04:49	10.0		25				
052	076_52.0	SAMPLE	185622-023	111462	Water	18-MAR-2006 05:07	10.0		25				
053	076_53.0	CCV	L	111462		18-MAR-2006 05:26	1.0	1	25			1	853
054	076_54.0	CCB		111462		18-MAR-2006 05:44	1.0		25				
055	076_55.0	X	CCV	111462		18-MAR-2006 06:03	1.0					1	
056	076_56.0	X	CCB	111462		18-MAR-2006 06:21	1.0						
057	076_57.0	SAMPLE	185622-035	111462	Water	18-MAR-2006 06:39	1.0		25				
058	076_58.0	SAMPLE	185622-028	111462	Water	18-MAR-2006 06:58	1.0	2	25			2:SO4=80.3732	
059	076_59.0	SAMPLE	185622-029	111462	Water	18-MAR-2006 07:16	1.0	2	25			2:SO4=242.865	
060	076_60.0	SAMPLE	185622-030	111462	Water	18-MAR-2006 07:35	1.0	1	25			1:SO4=50.6490	
061	076_61.0	SAMPLE	185622-031	111462	Water	18-MAR-2006 07:53	1.0	2	25			2:SO4=239.268	
062	076_62.0	SAMPLE	185622-033	111462	Water	18-MAR-2006 08:11	1.0		25				
063	076_63.0	SAMPLE	185622-034	111462	Water	18-MAR-2006 08:30	1.0	1	25			1:SO4=80.7806	
064	076_64.0	SAMPLE	185622-036	111462	Water	18-MAR-2006 08:48	1.0		25				
065	076_65.0	SAMPLE	185622-037	111462	Water	18-MAR-2006 09:07	1.0	1	25			1:SO4=76.2243	
066	076_66.0	SAMPLE	185622-028	111462	Water	18-MAR-2006 09:25	10.0		25				
067	076_67.0	CCV	M	111462		18-MAR-2006 09:43	1.0	1	25			1	
068	076_68.0	CCB		111462		18-MAR-2006 10:02	1.0		25				

Stds used: 1=S1888

SEQUENCE SUMMARY FOR 185622 IC Water
Curtis & Tompkins Laboratories

Sequence: 626110354 Instrument: IC03 Ion Chromatograph Begun: 17-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC SPK uL	VL	pH	Stds Used	>LR
069	076_69.0	X	CCV	111462		18-MAR-2006 10:20	1.0				1	
070	076_70.0	X	CCB	111462		18-MAR-2006 10:39	1.0					
071	076_71.0	SAMPLE	185622-029	111462	Water	18-MAR-2006 10:57	25.0	25				
072	076_72.0	SAMPLE	185622-030	111462	Water	18-MAR-2006 11:16	10.0	25				
073	076_73.0	SAMPLE	185622-031	111462	Water	18-MAR-2006 11:34	25.0	25				
074	076_74.0	SAMPLE	185622-033	111462	Water	18-MAR-2006 11:52	25.0	25				
075	076_75.0	SAMPLE	185622-034	111462	Water	18-MAR-2006 12:11	25.0	25				
076	076_76.0	SAMPLE	185622-036	111462	Water	18-MAR-2006 12:29	5.0	25				
077	076_77.0	SAMPLE	185622-037	111462	Water	18-MAR-2006 12:48	10.0	25				
078	076_78.0	CCV	H	111462		18-MAR-2006 13:06	1.0	25			1	
079	076_79.0	CCB		111462		18-MAR-2006 13:24	1.0	25				
080	076_80.0	X	CCV	111462		18-MAR-2006 13:43	1.0				1	
081	076_81.0	X	CCB	111462		18-MAR-2006 14:01	1.0					
082	076_82.0	X	SHUTDOWN	111462		18-MAR-2006 14:20	1.0					

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Stds used: 1=S1888

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185622 IC Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	CL	NO2N	NO3N	SO4
185622-001	IC01	03/17/06 18:56	1.0	+		+		
185622-001	IC01	03/17/06 22:43	25.0		+		+	+
185622-002	IC01	03/17/06 18:38	1.0	+		+	+	
185622-002	IC01	03/18/06 02:48	25.0		+			+
185622-003	IC01	03/17/06 18:21	1.0	+		+	+	+
185622-003	IC01	03/18/06 04:16	5.0		+			
185622-004	IC01	03/17/06 18:03	1.0	+		+	+	+
185622-004	IC01	03/18/06 04:34	10.0		+			
185622-005	IC01	03/17/06 17:46	1.0	+		+	+	+
185622-005	IC01	03/18/06 04:51	5.0		+			
185622-006	IC01	03/17/06 17:28	1.0	+		+	+	+
185622-006	IC01	03/18/06 00:11	5.0		+			
185622-008	IC01	03/17/06 22:26	1.0	+		+		
185622-008	IC01	03/18/06 02:31	10.0		+		+	+
185622-009	IC01	03/17/06 21:33	1.0	+		+	+	
185622-009	IC01	03/18/06 01:38	10.0		+			+
185622-010	IC01	03/17/06 20:58	1.0	+		+	+	+
185622-010	IC01	03/18/06 05:09	10.0		+			
185622-011	IC01	03/17/06 20:23	1.0	+		+	+	+
185622-011	IC01	03/18/06 05:26	10.0		+			
185622-012	IC01	03/17/06 19:13	1.0	+		+	+	
185622-012	IC01	03/18/06 05:44	10.0		+			+
185622-013	IC01	03/17/06 20:06	1.0	+		+		+
185622-013	IC01	03/18/06 01:21	10.0		+		+	
185622-014	IC01	03/17/06 20:41	1.0	+		+		
185622-014	IC01	03/18/06 01:03	25.0		+		+	+
185622-015	IC01	03/17/06 21:16	1.0	+		+	+	+
185622-015	IC01	03/18/06 06:01	25.0		+			
185622-016	IC01	03/17/06 21:51	1.0	+		+	+	+
185622-016	IC01	03/18/06 01:56	10.0		+			
185622-017	IC01	03/17/06 22:08	1.0	+		+	+	+

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185622 IC Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	CL	NO2N	NO3N	SO4	
185622-017	IC01	03/18/06 02:13	10.0		+				
185622-018	IC03	03/17/06 18:23	1.0	+		+	+	+	
185622-018	IC03	03/18/06 04:49	10.0		+				
185622-020	IC03	03/17/06 18:41	1.0	+	+	+	+		
185622-020	IC03	03/17/06 20:50	5.0					+	
185622-021	IC03	03/17/06 19:00	50.0		+			+	
185622-021	IC03	03/17/06 22:04	1.0	+		+	+		
185622-022	IC03	03/17/06 22:22	1.0	+		+	+	+	
185622-022	IC03	03/18/06 04:12	10.0		+				
185622-023	IC03	03/17/06 21:46	1.0	+		+	+	+	
185622-023	IC03	03/18/06 05:07	10.0		+				
185622-024	IC03	03/17/06 19:55	50.0		+			+	
185622-024	IC03	03/18/06 00:13	1.0	+			+		
185622-024	IC03	03/18/06 00:50	2.0			+			
185622-025	IC03	03/17/06 20:13	50.0		+			+	
185622-025	IC03	03/18/06 01:26	1.0	+					
185622-025	IC03	03/18/06 02:03	2.0			+	+		
185622-026	IC03	03/17/06 20:32	50.0		+				
185622-026	IC03	03/18/06 02:40	2.0			+		+	
185622-026	IC03	03/18/06 03:17	1.0	+			+		
185622-027	IC03	03/17/06 22:41	1.0	+		+	+	+	
185622-027	IC03	03/18/06 04:31	25.0		+				
185622-028	IC03	03/18/06 06:58	1.0	+		+			
185622-028	IC03	03/18/06 09:25	10.0		+		+	+	
185622-029	IC03	03/18/06 07:16	1.0	+		+			
185622-029	IC03	03/18/06 10:57	25.0		+		+	+	
185622-030	IC03	03/18/06 07:35	1.0	+		+	+		
185622-030	IC03	03/18/06 11:16	10.0		+			+	
185622-031	IC03	03/18/06 07:53	1.0	+		+			
185622-031	IC03	03/18/06 11:34	25.0		+		+	+	
185622-033	IC03	03/18/06 08:11	1.0	+		+	+	+	
185622-033	IC03	03/18/06 11:52	25.0		+				

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185622 IC Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	CL	NO2N	NO3N	SO4	
185622-034	IC03	03/18/06 08:30	1.0	+		+	+		
185622-034	IC03	03/18/06 12:11	25.0		+			+	
185622-035	IC03	03/18/06 06:39	1.0	+	+	+	+	+	
185622-036	IC03	03/18/06 08:48	1.0	+		+	+	+	
185622-036	IC03	03/18/06 12:29	5.0		+				
185622-037	IC03	03/18/06 09:07	1.0	+		+	+		
185622-037	IC03	03/18/06 12:48	10.0		+			+	
QC332159	IC03	03/17/06 15:14	1.0	+	+	+	+	+	
QC332160	IC03	03/17/06 15:33	1.0	+	+	+	+	+	
QC332161	IC03	03/17/06 15:51	1.0	+	+	+	+	+	
QC332162	IC03	03/17/06 21:09	5.0	+	+	+	+	+	
QC332163	IC03	03/17/06 21:27	5.0	+	+	+	+	+	
QC332168	IC01	03/17/06 15:33	1.0	+	+	+	+	+	
QC332169	IC01	03/17/06 15:50	1.0	+	+	+	+	+	
QC332170	IC01	03/17/06 16:08	1.0	+	+	+	+	+	
QC332171	IC01	03/18/06 00:28	5.0	+	+	+	+	+	
QC332172	IC01	03/18/06 00:46	5.0	+	+	+	+	+	

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111462
Date Started: 17-MAR-2006
Batched by : Micah Smith

Analysis : N/A
Bgroup : IC
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185610-001			Mactec, Inc.	Water	CHLORIDE, SULFATE	24-MAR-2006
185610-002			Mactec, Inc.	Water	CHLORIDE, SULFATE	24-MAR-2006
185622-018			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-020			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-021			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-022			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-023			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-024			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-025			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-026			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-027			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-028			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-029			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-030			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-031			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-033			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-034			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-035			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-036			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-037			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
QC332159	BLANK			Water		
QC332160	BS			Water		
QC332161	BSD			Water		
QC332162	MS	of 185622-020		Water		
QC332163	MSD	of 185622-020		Water		

Curtis & Tompkins, Ltd. **Water Prep Log** Ion Chromatography

Analysis: ☒ Anions EPA 300 / EPA 9056
☐ Perchlorate (ClO_4) EPA 314
☐ Cr6+ EPA 7199

Batch#: 111462
Date Started: 3/17/06
Prep Chemist: MKS

BK 2267
Page 67

	Sample #	Conductivity	Estimated Dilution Factor	Filters Used	Comments
1	185610-001 I	0.80	10x / 1x	S	
2	↓ -002 I	0.92	10x / 1x	↓	
3	185622-018 C	0.84	10x / 1x		
4	-020 H	1.56	5x / 1x		MSS
5	-021	2.79	50x / 1x		
6	-022 ↓	0.78	10x / 1x		
7	-023 E	0.85	10x / 1x		
8	-024 H	3.45	50x / 2x / 1x		
9	-025 H	3.42	50x / 2x / 1x		
10	-026 G	3.88	50x / 2x / 1x		
11	-027 H	1.10	25x / 1x		
12	-028 E	0.88	10x / 1x		
13	-029 E	1.68	25x / 1x		
14	-030 H	0.87	10x / 1x		
15	-031 E	1.06	25x / 1x		
16	-033 G	1.21	25x / 1x		
17	-034	1.01	25x / 1x		
18	-035 ↓	0.05	1x		
19	-036 H	0.61	5x / 1x		
20	↓ -037 H	0.82	10x / 1x	↓	
	Blank QC372159	N/A	1x	N/A	
	BS QC372160		↓	↓	
	BSD QC372161				
	MS QC372162 H		5x	S	
	MSD QC372163 H	↓	5x	S	

		Mfg & Lot # / Time / Program	Initials / Date
	Eluent Reagent ID	100x CP 12/6/05	MKS 3/17/06
BS/BSD Spiked with	0.2 mL of :	S1888	↓
MS/MSD Spiked with	0.1 mL of :	S1888	
Filters Used:	Ag: OnGuard II Ag	N/A	
	Na: OnGuard II Na	↓	
	P: OnGuard II P		
	RP: OnGuard II RP		
	S: 0.20um/0.45um	Acrodisc lot # A1059346	

MKS 3/17/06
Extraction Chemist / Date

Continued from page ___
Continued on page ___

CP 3/20/06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111464
Date Started: 17-MAR-2006
Batched by : Micah Smith

Analysis : N/A
Bgroup : IC
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185622-001			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-002			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-003			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-004			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-005			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-006			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-008			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-009			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-010			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-011			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-012			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-013			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-014			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-015			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-016			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
185622-017			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	29-MAR-2006
QC332168	BLANK			Water		
QC332169	BS			Water		
QC332170	BSD			Water		
QC332171	MS	of 185622-006		Water		
QC332172	MSD	of 185622-006		Water		

Curtis & Tompkins, Ltd. **Water Prep Log** Ion Chromatography

Analysis: ☒ Anions EPA 300 / EPA 9056
☐ Perchlorate (ClO_4) EPA 314
☐ Cr6+ EPA 7199

Batch#: 111464
Date Started: 2/17/06
Prep Chemist: MRS

BK 2267
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	Sample #	Conductivity	Estimated Dilution Factor	Filters Used	Comments
1	185622-001 E	1.70	25x/1x	S	
2	-002 E	1.70	25x/1x		
3	-003 G	0.53	5x/1x		
4	-004	0.74	10x/1x		
5	-005	0.32	5x/1x		
6	-006	0.31	5x/1x		MSS
7	-008 C	0.94	10x/1x		
8	-009 K	0.73	10x/1x		
9	-010	0.64	10x/1x		
10	-011	0.66	10x/1x		
11	-012	0.79	10x/1x		
12	-013 E	0.76	10x/1x		
13	-014 E	1.23	25x/1x		
14	-015 K	1.26	25x/1x		
15	-016 F	0.72	10x/1x		
16	-017 C	0.65	10x/1x		
17	Blank QC332168	N/A	1x	N/A	
18	~~QC~~ MRS 3/17/06 BS QC332169				
19	BSD QC332170				
20	MS QC332171 G		5x	S	
	MSD QC332172 G		5x	S	

		Mfg & Lot # / Time / Program	Initials / Date
Eluent Reagent ID		100x CP 12/6/05	MRS 3/17/06
BS/BSD Spiked with	0.2 mL of :	51888	
MS/MSD Spiked with	0.1 mL of :	51888	
Filters Used:	Ag: OnGuard II Ag	N/A	
	Na: OnGuard II Na		
	P: OnGuard II P		
	RP: OnGuard II RP		
	S: 0.20um/0.45um	Acrodisc lot #A1053946	

MRS 3/17/06
Extraction Chemist / Date

Continued from page ___
Continued on page ___

CP 3/20/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 300.0 Water
As of 04/13/06

Analyte	Units	IC03	IC01
Fluoride	mg/L	0.023	0.018
Chloride	mg/L	0.032	0.026
Nitrogen, Nitrite	mg/L	0.012	0.0067
Bromide	mg/L	0.028	0.058
Nitrogen, Nitrate	mg/L	0.0088	0.018
Orthophosphate (as P)	mg/L	0.037	0.045
Sulfate	mg/L	0.079	0.046

Curtis & Tompkins, Ltd.

Total Cyanide

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 335.2
Analyte:	Cyanide	Batch#:	111826
Matrix:	Water	Received:	03/17/06
Units:	mg/L	Analyzed:	03/29/06
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL	Sampled
LF08GW02B	SAMPLE	185622-003	ND	0.01	03/16/06
LF08GW03	SAMPLE	185622-004	ND	0.01	03/16/06
LF08GW04	SAMPLE	185622-005	ND	0.01	03/16/06
DUP0316064A	SAMPLE	185622-006	0.03	0.01	03/16/06
LF01GW02	SAMPLE	185622-008	0.01	0.01	03/16/06
LF02GW01	SAMPLE	185622-017	ND	0.01	03/16/06
EPSP01	SAMPLE	185622-018	ND	0.01	03/16/06
LF08GW01	SAMPLE	185622-033	ND	0.01	03/17/06
LF08GW06	SAMPLE	185622-034	ND	0.01	03/17/06
LF08GW06RB01	SAMPLE	185622-035	ND	0.01	03/17/06
	BLANK	QC333599	ND	0.01	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Cyanide

Lab #:	185622	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 335.2
Analyte:	Cyanide	Diln Fac:	1.000
Field ID:	LF08GW06RB01	Batch#:	111826
MSS Lab ID:	185622-035	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	mg/L	Analyzed:	03/29/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC333600	<0.01000	0.2020	0.2127	105	65-135		
MSD	QC333601		0.2020	0.2231	110	65-135	5	20
LCS	QC333602		0.2020	0.2208	109	75-125		
LCS	QC333603		0.1010	0.1067	106	75-125		

RPD= Relative Percent Difference

Analysis:	**Cyanide**	Matrix:	Water
Method:	**EPA 335.2** / SMWW 4500CN-E	Batch:	**111826**
Instrument:	HP UV-VIS Spectrometer	Prep Date:	**3/29/2006**
Wavelength:	578 nm	Analysis Date:	**3/29/2006**
SOP#:	CN_335_rv8.doc	Analyst:	DMc

INITIAL CALIBRATION DATA

Calibration Date: 7/5/05

Conc (mg/L)	ABS	RF
0.00000	-0.0009	
0.00884	0.0086	0.972851
0.01768	0.0195	1.102941
0.05304	0.0618	1.165158
0.08840	0.1033	1.168552
0.14144	0.1679	1.187076
0.17680	0.2081	1.177036
0.26520	0.3195	1.204751

Correlation Coefficient (r):	0.9999
Avg Rf:	1.139766
%RSD:	7.0

Note: Average Rf used to calculate sample results.

CONTINUING CALIBRATION DATA

	ABS	Conc (mg/L)	True (mg/L)	Recovery	CV Limits
ICV	0.1940	0.1702	0.1620	105%	90 - 110%
ICB	0.0002	0.0002	0.0000		
CCV	0.1898	0.1665	0.1620	103%	90 - 110%
CCB	0.0005	0.0004	0.0000		
CCV	0.1876	0.1646	0.1620	102%	90 - 110%
CCB	0.0005	0.0004	0.0000		

865

Analysis: **Cyanide**
Method: **EPA 335.2** / SMWW 4500CN-E
Instrument: HP UV-VIS Spectrometer
Wavelength: 578 nm

Matrix: Water
Batch: **111826**
Prep Date: **3/29/2006**
Analysis Date: **3/29/2006**
Analyst: DMc

SAMPLE & BATCH QC DATA

Sample ID	Vol (mL) Distilled	Final Distill Vol (mL)	Distillate Colored (mL)	Instrument Dilution	ABS	**Report mg/L**	Reporting Limit (mg/L)	Vol Spike Added (mL)	Std Conc. (mg/L)	Spiked @ (mg/L)	**% Rec**	**% RPD**
MB	50.0	50.0	20.0	1.00	0.0004	**ND**	0.010					
LCS	50.0	50.0	20.0	1.00	0.2517	**0.2208**	0.010	0.5	20.2	0.202	**109**	
LCS	50.0	50.0	20.0	1.00	0.1216	**0.1067**	0.010	0.250	20.2	0.101	**106**	
185662-35	50.0	50.0	20.0	1.00	-0.0014	**ND**	0.010					
185662-35ms	50.0	50.0	20.0	1.00	0.2424	**0.2127**	0.010	0.5	20.2	0.202	**105**	
185622-35ms	50.0	50.0	20.0	1.00	0.2543	**0.2231**	0.010	0.5	20.2	0.202	**110**	**5**
185622-3	50.0	50.0	20.0	1.00	0.0039	**ND**	0.010					
185622-4	50.0	50.0	20.0	1.00	-0.0018	**ND**	0.010					
185622-5	50.0	50.0	20.0	1.00	0.0013	**ND**	0.010					
185622-6	50.0	50.0	20.0	1.00	0.0349	**0.0306**	0.010					
185622-8	50.0	50.0	20.0	1.00	0.0145	**0.0127**	0.010					
185622-17	50.0	50.0	20.0	1.00	0.0030	**ND**	0.010					
185622-18	50.0	50.0	20.0	1.00	0.0043	**ND**	0.010					
185622-33	50.0	50.0	20.0	1.00	0.0003	**ND**	0.010					
185622-34	50.0	50.0	20.0	1.00	0.0008	**ND**	0.010					

866

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	80 - 120
MS/ MSD	20	69 - 120

Reviewed by/ Date: 3.29.06

---> Quantitation Results Report <---

Date : 03-29-2006
Time : 13:26:49
Operator : Not Entered

File Name : Data not stored yet

Sample Name : cyanide
Solvent Name : CAL 7/5/05
Conc Units : mg/L
Dil. Factor : 1.00

Analytical Wavelength : 578 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selecte
Integration Time : 1 seconds

SAMPLE #	Sample Name	Wavelength	Func. Res.	Concentra
1	ICB	Analytical	+0.0002	1.664E-04
2	ICV	Analytical	+0.1940	0.16267
3	185622-3	Analytical	+0.0039	0.00326
4	185622-4	Analytical	-0.0018	0.00000
5	185622-5	Analytical	+0.0013	0.00106
6	185622-6	Analytical	+0.0349	0.02930
7	185622-8	Analytical	+0.0145	0.01212
8	185622-17	Analytical	+0.0030	0.00252
9	185622-18	Analytical	+0.0043	0.00357
10	185622-33	Analytical	+0.0003	2.303E-04
11	185622-34	Analytical	+0.0008	6.782E-04
12	185622-35	Analytical	-0.0014	0.00000
13	CCV	Analytical	+0.1898	0.15919
14	CCB	Analytical	+0.0005	4.479E-04
15	185622-35MS	Analytical	+0.2424	0.20325
16	185622-35MSD	Analytical	+0.2543	0.21326
17	LCS	Analytical	+0.2517	0.21106
18	LCS	Analytical	+0.1216	0.10198
19	MB	Analytical	+0.0004	3.711E-04
20	CCV	Analytical	+0.1876	0.15732

21 CCB Analytical +0.0005 4.479E-04

---> **Standard Calibration Report** <---

Date : 03-~~22~~ 29-2006
Time : 13:37:~~12~~ 09 pm
Operator : Not Entered

File Name : C:\UV\DATA\mdcn705.STD

Sample Name : cyanide
Solvent Name : CAL 7/5/05
Conc Units : mg/L

Analytical Wavelength : 578 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selecte
Integration Time : 1 seconds

Analytical Function Concentration = +0.387E-01 * Absorbance

STD #	Concentration	Absorbance	% Error
1	0.00000	-.0009	*****
2	0.00884	0.0086	+22.699 %
3	0.01768	0.0195	+8.106 %
4	0.05304	0.0618	+2.340 %
5	0.08840	0.1033	+2.023 %
6	0.14144	0.1679	+0.471 %
7	0.17680	0.2081	+1.290 %
8	0.26520	0.3195	-1.022 %

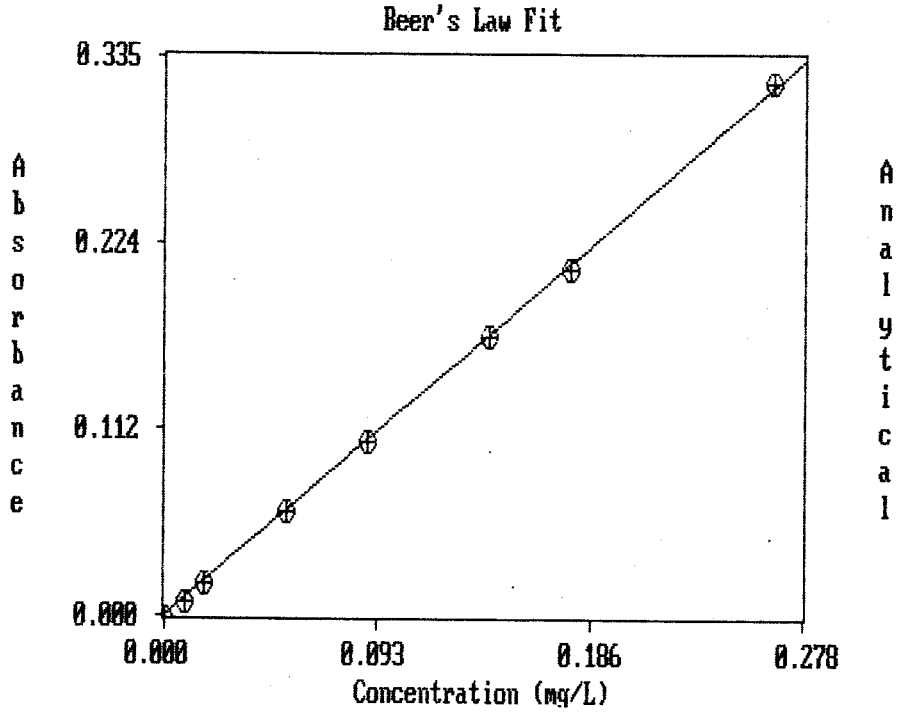
---> Standard Calibration Report <---

Date : 03-~~22~~ 29-2006
Time : 13:37:14 3:29 06 pm
Operator : Not Entered

File Name : C:\UV\DATA\mdcn705.STD

Sample Name : cyanide
Solvent Name : CAL 7/5/05
Conc Units : mg/L

Analytical Wavelength : 578 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selecte
Integration Time : 1 seconds



CN - EPA 335.2M / 9010-9014 B111826

Sample	Vol (ml)	Final Vol (ml)	Vol (ml) for Color	Abs
185622-3	50	50	20	.0039
-4				-.0018
-5				.0013
-6				.0349
-8				.0145
-17				.0030
-18				.0043
-33				.0003
-34				.0004
-35				-.0014
-35MS	+.5ml (20.2ug/ml dil no FS2649, 1ml → 5ml)			.2424
-35MSD	same as MS			.2543
LCS	same as MS			.2517
LCS	same as MS ÷ 2			.1216
MB				.0004
ICB				.0002
ICV	2ml (20.2ug/ml dil no FS2649) 250 - 20ml			.1940
CCV				.1898
CCB				.0005
CCV				.1876
CCB				.0005

TV. 162ug/L

tests for Cl & $S^{=}$ negative
pH all >12
Sulfamic acid added to all samples.

Continued on Page

Read and Understood By

Signed	Date	Signed	Date
[illegible]	3-29-06 870	[illegible]	3-29-06

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111826
Date Started: 29-MAR-2006
Batched by : Dennis McCanna

Analysis : CYANIDE
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185622-003			Treadwell & Rollo	Water	CYANIDE	29-MAR-2006
185622-004			Treadwell & Rollo	Water	CYANIDE	29-MAR-2006
185622-005			Treadwell & Rollo	Water	CYANIDE	29-MAR-2006
185622-006			Treadwell & Rollo	Water	CYANIDE	29-MAR-2006
185622-008			Treadwell & Rollo	Water	CYANIDE	29-MAR-2006
185622-017			Treadwell & Rollo	Water	CYANIDE	29-MAR-2006
185622-018			Treadwell & Rollo	Water	CYANIDE	29-MAR-2006
185622-033			Treadwell & Rollo	Water	CYANIDE	29-MAR-2006
185622-034			Treadwell & Rollo	Water	CYANIDE	29-MAR-2006
185622-035			Treadwell & Rollo	Water	CYANIDE	29-MAR-2006
QC333599	BLANK			Water	CYANIDE	
QC333600	MS	of 185622-035		Water	CYANIDE	
QC333601	MSD	of 185622-035		Water	CYANIDE	
QC333602	LCS			Water	CYANIDE	
QC333603	LCS			Water	CYANIDE	

Method Detection Limit Study

Analysis:	**Cyanide**	Matrix:	**Water**
Method:	EPA 335.2 mod*	Analysis Date:	8/24/2005
Instrument:	HP UV/VIS Spectrometer	Analyst:	DMc
	* using the midi-distillation apparatus		

Concentration:	0.0195	mg/L
1	0.0215	
2	0.0173	
3	0.0192	
4	0.0197	
5	0.0200	
6	0.0199	
7	0.0183	
8		
Average	0.0194	
STDEVP	0.00124	
Student's t	2.998	

(Student-T value for 7 replicates = 3.143, for 8 replicates = 2.998)

MDL = Student T * StdDev:	**0.0037**	mg/L
Reporting Limit:	0.0100	mg/L
Status:	PASS	>1/3 RL

f:\inorgan\forms\cn-mdl-h2o.xls
ver.2 effective 7/14/04

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 185638

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.04.51
Location: Presidio

Sample ID	Lab ID
514AGW101	185638-001
FM14EX07GW102	185638-002
1221GW101	185638-003
1221GW102	185638-004
1213GW101	185638-005
FM14EX07GW101	185638-006
DUP0317062A	185638-007
TB0317062A	185638-008

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 4/10/06
Operations Manager

Signature: _____ Date: 4/8/06
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**185638**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**03/17/06**
Samples Received:	**03/17/06**

This hardcopy data package contains sample and QC results for eight water samples, requested for the above referenced project on 03/17/06. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):
High surrogate recovery was observed for trifluorotoluene (FID) in 1221GW102 (lab # 185638-004); the corresponding bromofluorobenzene (FID) surrogate recovery was within limits. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

Polynuclear Aromatics by HPLC (EPA 8310):
No analytical problems were encountered.

Chain of Custody

Treadwell&Rollo

Environmental and Geotechnical Consultants

555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

185638

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2054
Page: ___ of ___

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTS / J. Dejong, P. Cornish, P. Reynal
Recorder (signature required):
Sent to Laboratory (Name):

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260), MTBE	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	BTEX, MTBE						COMMENTS / NOTES
1	514AGW101	3/17/06	1355			X		3				3	X	X	X							X	X						
2	FM14EX07GW102		1310			X		3				3	X	X	X							X	X						
3	122GW101		1242			X		3				3	X	X	X							X	X						
4	122GW102		1240			X		3				3	X	X	X							X	X						
5	123GW101		~~1340~~ 1340			X		6				3	X	X	X	X						X							
6	FM14EX07GW101		1345			X		3				3	X	X	X							X	X						
7	DUP031706ZA		1350			X		6				3	X	X	X	X						X							
8	TB031706ZA					X		2								X													

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY: [signature]	DATE: 3/17/06	RECEIVED BY: [signature]	DATE: 3/17/06
PRINT NAME: P. Cornish	FIRM: BTS / TIME: 1430	PRINT NAME: Tony Rojas	FIRM: C&T / TIME: 1430
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME:	FIRM: / TIME:	PRINT NAME:	FIRM: / TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

White Copy - Original **Yellow Copy** - Laboratory **Pink Copy** - Field

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 185638 Date Received: 3-17-96 Number of Coolers: 2
Client: Treadwell & Rollo Project: Presidio

A. Preliminary Examination Phase
Date Opened: 3-17-96 By (print): Troy Windsor (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.)?..... YES (NO)
   If YES, enter carrier name and airbill number:
2. Were custody seals on outside of cooler?..... (YES) NO
   How many and where? 1 per over cooler lip Seal date: 3-17-96 Seal name: Illegible
3. Were custody seals unbroken and intact at the date and time of arrival?..... (YES) NO
4. Were custody papers dry and intact when received?..... (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)?..... (YES) NO
6. Did you sign the custody papers in the appropriate place?..... (YES) NO
7. Was project identifiable from custody papers?..... (YES) NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... (YES) NO
   Type of ice: wet Temperature: 4.7 2.8

B. Login Phase
Date Logged In: 3-17-96 By (print): Troy Windsor (sign) [signature]

1. Describe type of packing in cooler: In ziploc type bags
2. Did all bottles arrive unbroken?..... (YES) NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)?..... (YES) NO
4. Did bottle labels agree with custody papers?..... (YES) NO
5. Were appropriate containers used for the tests indicated?..... (YES) NO
6. Were correct preservatives added to samples?..... (YES) NO
7. Was sufficient amount of sample sent for tests indicated?..... (YES) NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below..... (YES) NO
9. Was the client contacted concerning this sample delivery?..... YES NO
   If YES, give details below.
   Who was called? By whom? Date:

Additional Comments:

TOTAL VOLATILE HYDROCARBONS/

BTXE

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185638	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	514AGW101	Batch#:	111476
Lab ID:	185638-001	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/20/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	3.6	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	112	65-135	EPA 8015B
Bromofluorobenzene (FID)	105	65-135	EPA 8015B
Trifluorotoluene (PID)	107	65-135	EPA 8021B
Bromofluorobenzene (PID)	103	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185638	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	FM14EX07GW102	Batch#:	111476
Lab ID:	185638-002	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/20/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	2.3	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	112	65-135	EPA 8015B
Bromofluorobenzene (FID)	104	65-135	EPA 8015B
Trifluorotoluene (PID)	108	65-135	EPA 8021B
Bromofluorobenzene (PID)	102	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185638	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1221GW101	Batch#:	111476
Lab ID:	185638-003	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/20/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	112	65-135	EPA 8015B
Bromofluorobenzene (FID)	103	65-135	EPA 8015B
Trifluorotoluene (PID)	107	65-135	EPA 8021B
Bromofluorobenzene (PID)	100	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185638	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1221GW102	Batch#:	111476
Lab ID:	185638-004	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/20/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	230 L Y	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	141 *	65-135	EPA 8015B
Bromofluorobenzene (FID)	112	65-135	EPA 8015B
Trifluorotoluene (PID)	116	65-135	EPA 8021B
Bromofluorobenzene (PID)	107	65-135	EPA 8021B

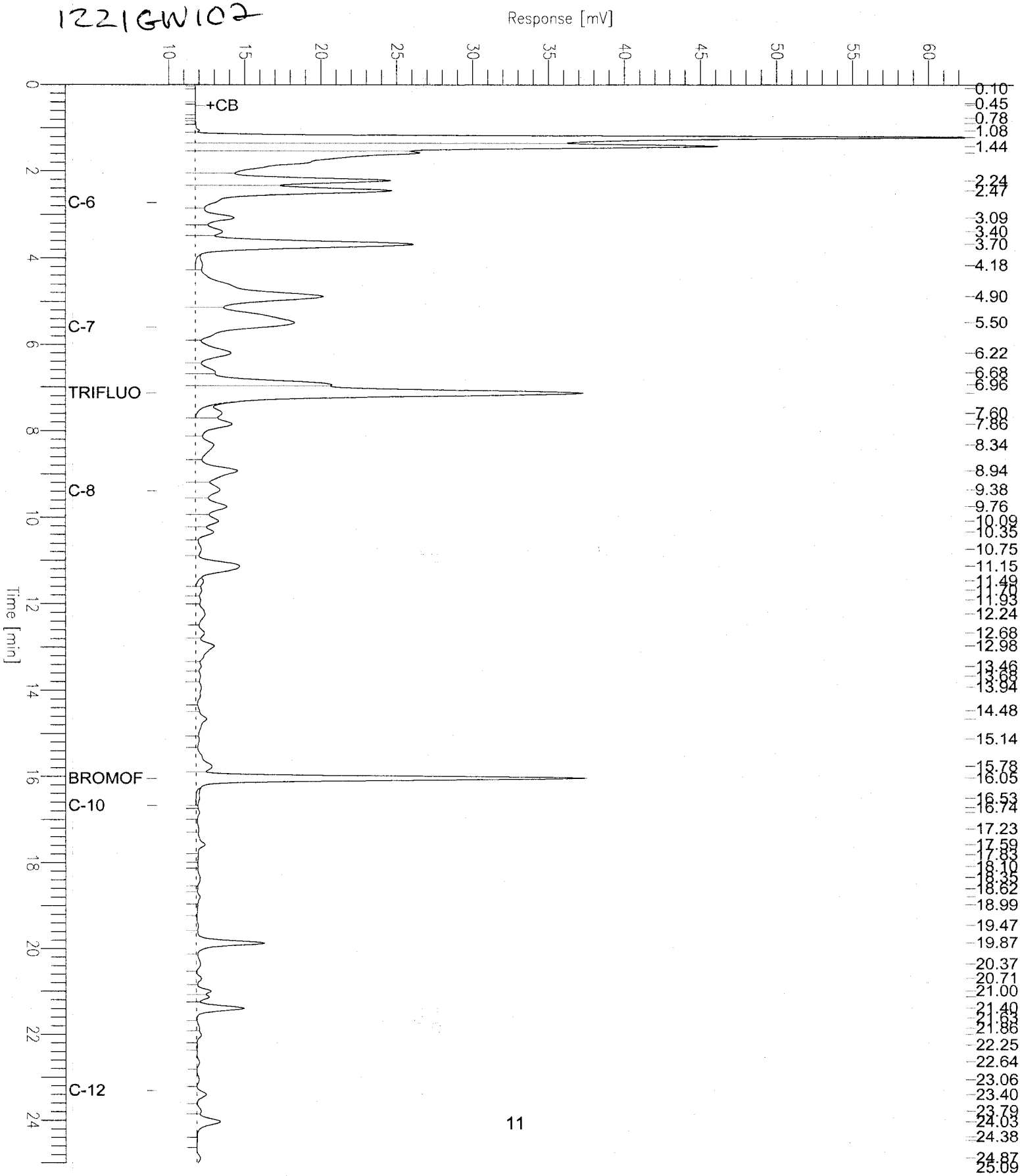
*= Value outside of QC limits; see narrative
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

GC19 TVH 'X' Data File (FID)

Sample Name : 185638-004,111476,mbtxe+tvh
FileName : G:\GC19\DATA\079X009.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 25.00 min
Scale Factor: 1.0 Plot Offset: 9 mV

Sample #: a1.3
Date : 3/21/06 12:02 AM
Time of Injection: 3/20/06 11:35 PM
Low Point : 9.20 mV High Point : 62.41 mV
Plot Scale: 53.2 mV

1221GW102



Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185638	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1213GW101	Batch#:	111476
Lab ID:	185638-005	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	87 L Y	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	129	65-135
Bromofluorobenzene (FID)	102	65-135

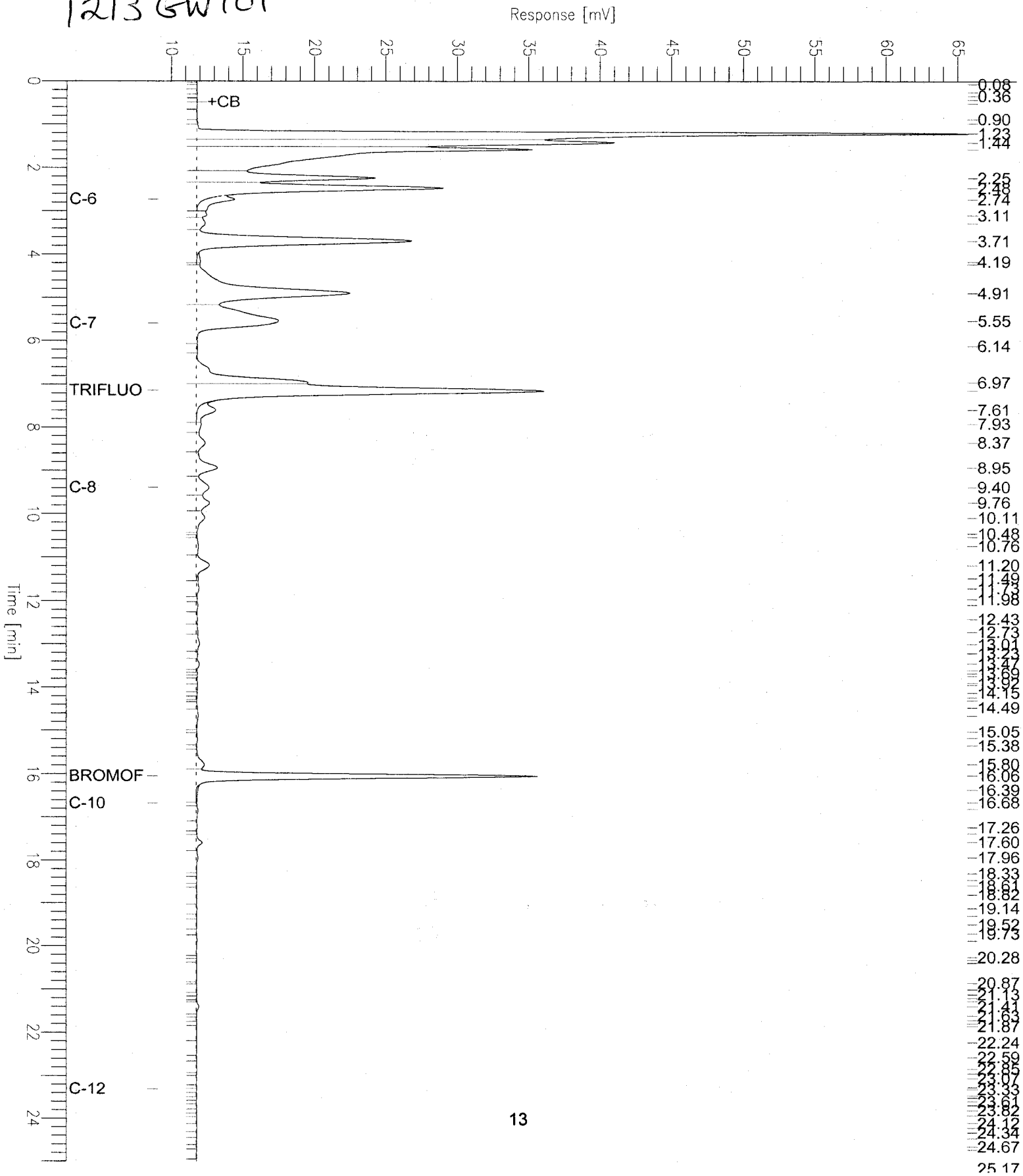
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
RL= Reporting Limit

GC19 TVH 'X' Data File (FID)

Sample Name : 185638-005,111476,tvh only
FileName : G:\GC19\DATA\079X015.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 25.00 min
Scale Factor: 1.0 Plot Offset: 9 mV

Sample #: a1.3
Date : 3/21/06 03:24 AM
Time of Injection: 3/21/06 02:57 AM
Low Point : 9.08 mV High Point : 65.72 mV
Plot Scale: 56.6 mV

1213 GW101



Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185638	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	FM14EX07GW101	Batch#:	111476
Lab ID:	185638-006	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	115	65-135	EPA 8015B
Bromofluorobenzene (FID)	109	65-135	EPA 8015B
Trifluorotoluene (PID)	110	65-135	EPA 8021B
Bromofluorobenzene (PID)	108	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185638	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	DUP0317062A	Batch#:	111476
Lab ID:	185638-007	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	61 L Y	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	120	65-135
Bromofluorobenzene (FID)	99	65-135

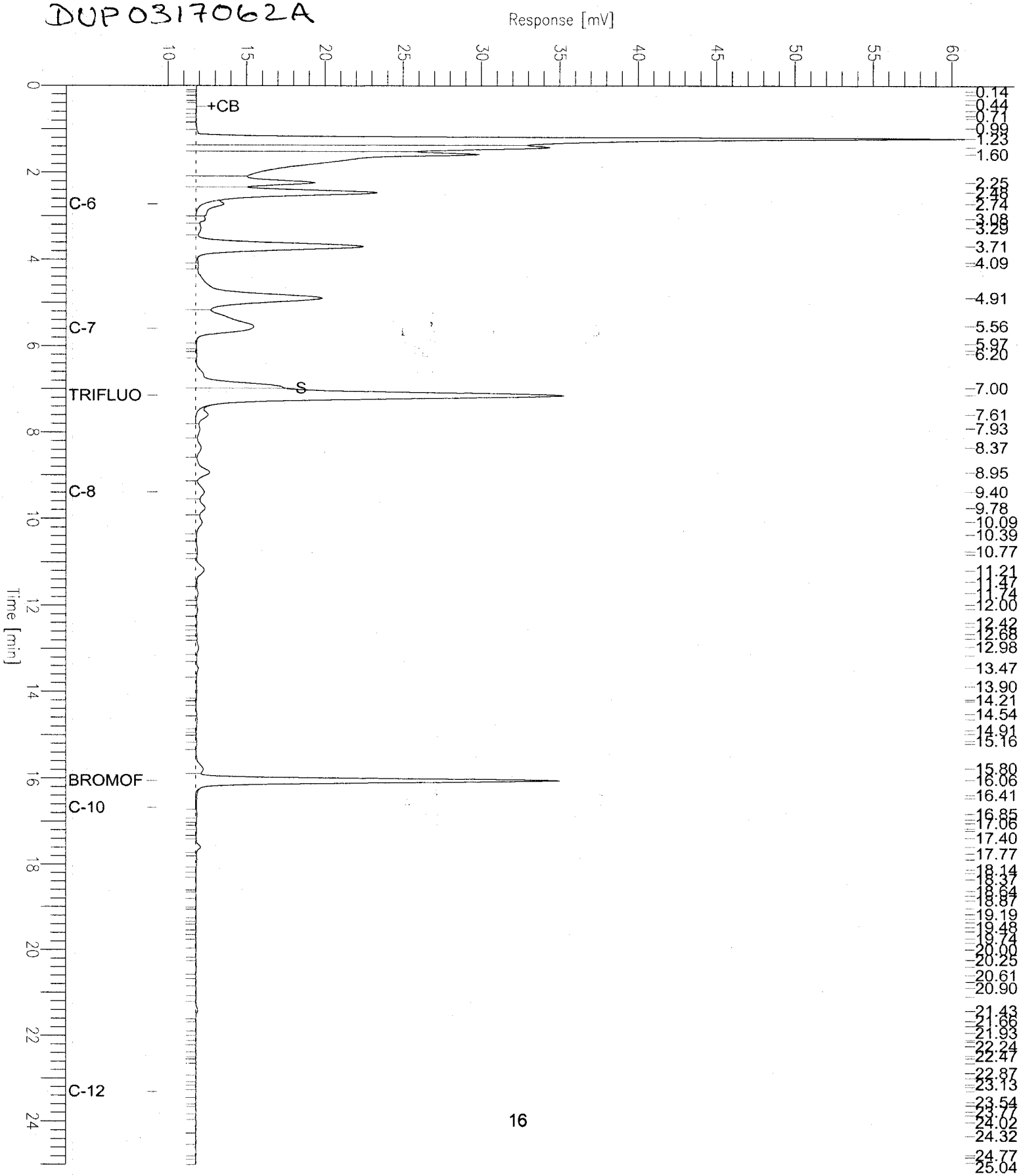
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
RL= Reporting Limit

GC19 TVH 'X' Data File (FID)

Sample Name : 185638-007,111476,tvh only
FileName : G:\GC19\DATA\079X016.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 25.00 min
Scale Factor: 1.0 Plot Offset: 9 mV

Sample #: a1.3
Date : 3/21/06 01:19 PM
Time of Injection: 3/21/06 03:30 AM
Low Point : 9.32 mV High Point : 60.90 mV
Plot Scale: 51.6 mV

DUP0317062A



Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185638	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332213	Batch#:	111476
Matrix:	Water	Analyzed:	03/20/06
Units:	ug/L		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	109	65-135	EPA 8015B
Bromofluorobenzene (FID)	100	65-135	EPA 8015B
Trifluorotoluene (PID)	104	65-135	EPA 8021B
Bromofluorobenzene (PID)	97	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

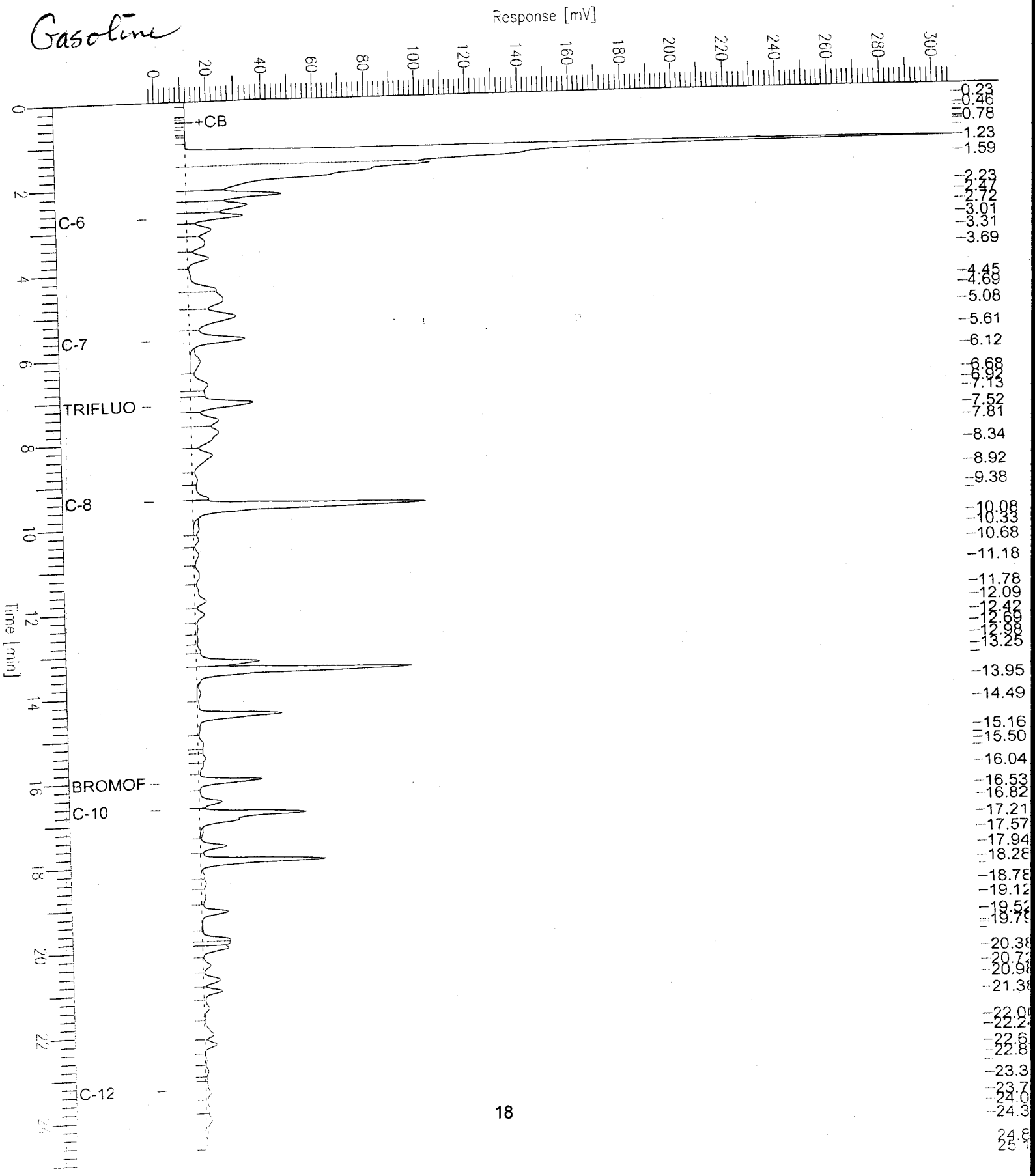
GC19 TVH 'X' Data File (FID)

ample Name : ccv/lcs,qc332215,111476,s2869,5/5000
ileName : G:\GC19\DATA\079X002.raw
ethod : TVHBTXE
tart Time : 0.00 min
cale Factor: 1.0

End Time : 25.00 min
Plot Offset: -3 mV

Sample #:
Date : 3/20/06 06:11 PM
Time of Injection: 3/20/06 05:44 PM
Low Point : -3.14 mV
High Point : 307.29 mV
Plot Scale: 310.4 mV

Gasoline



Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185638	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8021B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC332214	Batch#:	111476
Matrix:	Water	Analyzed:	03/20/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
MTBE	20.00	21.56	108	65-135
Benzene	20.00	21.88	109	65-135
Toluene	20.00	22.08	110	65-135
Ethylbenzene	20.00	21.99	110	65-135

Surrogate	%REC	Limits
Trifluorotoluene (PID)	105	65-135
Bromofluorobenzene (PID)	101	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185638	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC332215	Batch#:	111476
Matrix:	Water	Analyzed:	03/20/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	1,839	92	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	126	65-135
Bromofluorobenzene (FID)	110	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185638	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	514AGW101	Batch#:	111476
MSS Lab ID:	185638-001	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/20/06
Diln Fac:	1.000		

Type: MS Lab ID: QC332250

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	<27.03	2,000	1,920	96	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	130	65-135
Bromofluorobenzene (FID)	129	65-135

Type: MSD Lab ID: QC332251

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,840	92	65-135	4	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	127	65-135
Bromofluorobenzene (FID)	110	65-135

RPD= Relative Percent Difference

Confirmation Report for 185638 MBTXE Water
Curtis & Tompkins Laboratories

Units: ug/L

Lab ID	Client ID	Analyte	Result	Confirmation	RPD	%D
185638-001	514AGW101	MTBE	3.592	4.203	16	17
185638-002	FM14EX07GW102	MTBE	2.285	2.336	2	2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185638 GCVOA Water: EPA 8015B

Inst : GC19
Calnum : 345499226002
Units : ng

Name : tvh
Date : 13-DEC-2005 00:57
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	346_016	345499226016	tvh 1	13-DEC-2005 00:57	S1367 (1000X), S1895 (5000X)
L2	346_017	345499226017	tvh 2	13-DEC-2005 01:31	S1368 (1000X), S1895 (5000X)
L3	346_018	345499226018	tvh 3	13-DEC-2005 02:05	S1369 (1000X), S1895 (5000X)
L4	346_019	345499226019	tvh 4	13-DEC-2005 02:39	S1370 (2000X), S1895 (5000X)
L5	346_020	345499226020	tvh 5	13-DEC-2005 03:13	S1370 (1000X), S1895 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	X	641.76	620.02	560.35	524.50	528.99	AVRG		0.00174		575.12	9	0.995	20	

23

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185638 GCVOA Water: EPA 8015B / EPA 8021B

Inst : GC19
Calnum : 346094312001
Units : ng

Name : TFT/BFB
Date : 06-MAR-2006 12:26
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	065_002	346094312002	tft/bfb 1	06-MAR-2006 12:26	S2572 (5000X)
L2	065_003	346094312003	tft/bfb 2	06-MAR-2006 13:02	S2573 (5000X)
L3	065_004	346094312004	tft/bfb 3	06-MAR-2006 13:36	S2574 (5000X)
L4	065_005	346094312005	tft/bfb 4	06-MAR-2006 15:06	S2575 (5000X)
L5	065_006	346094312006	tft/bfb 5	06-MAR-2006 15:39	S2576 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	X	508.60	475.91	507.41	450.67	516.53	AVRG		0.00203		491.82	6	0.995	20	
Bromofluorobenzene (FID)	X	407.38	365.69	358.49	313.79	357.80	AVRG		0.00277		360.63	9	0.995	20	
Trifluorotoluene (PID)	Y	353.57	340.49	349.89	315.56	357.16	AVRG		0.00291		343.33	5	0.995	20	
Bromofluorobenzene (PID)	Y	918.57	801.91	797.73	700.85	797.75	AVRG		0.00124		803.36	10	0.995	20	
Trifluorotoluene (PID)	Z	203.03	191.11	214.72	192.58	226.08	AVRG		0.00487		205.51	7	0.995	20	
Bromofluorobenzene (PID)	Z	563.93	499.82	502.80	441.99	503.45	AVRG		0.00199		502.40	9	0.995	20	

24

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

346094312001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185638 GCVOA Water: EPA 8021B

Inst : GC19
Calnum : 346094312002
Units : ng

Name : MBTXE
Date : 06-MAR-2006 17:10
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	065_008	346094312008	btxe 1	06-MAR-2006 17:10	S2850 (1000X), S2543 (5000X)
L2	065_009	346094312009	mtbe 1	06-MAR-2006 17:44	S2849 (1250X), S2543 (5000X)
L3	065_010	346094312010	btxe 2	06-MAR-2006 18:18	S2849 (500X), S2543 (5000X)
L4	065_011	346094312011	btxe 3	06-MAR-2006 18:52	S2849 (125X), S2543 (5000X)
L5	065_012	346094312012	btxe 4	06-MAR-2006 19:26	S2848 (1000X), S2543 (5000X)
L6	065_013	346094312013	btxe 5	06-MAR-2006 20:00	S2848 (500X), S2543 (5000X)
L7	065_014	346094312014	btxe 6	06-MAR-2006 20:34	S2848 (250X), S2543 (5000X)
L8	065_015	346094312015	mtbe 7	06-MAR-2006 21:08	S2847 (500X), S2543 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
MTBE	Y		289.00	289.20	269.05	260.82	271.10	251.62	250.00	AVRG		0.00372		268.68	6	0.995	20	
Benzene	Y	1220.0		1152.8	1109.0	1148.8	1146.7	1111.3		AVRG		8.71E-4		1148.1	4	0.995	20	
Toluene	Y	1084.0		1040.8	1038.1	1056.8	1038.5	1005.2		AVRG		9.58E-4		1043.9	2	0.995	20	
Ethylbenzene	Y	963.43		904.51	926.97	938.81	920.90	927.83		AVRG		0.00107		930.41	2	0.995	20	
m,p-Xylenes	Y	1307.6		1202.1	1201.0	1217.2	1211.5	1142.8		AVRG		8.24E-4		1213.7	4	0.995	20	
o-Xylene	Y	978.00		922.40	893.30	918.21	910.13	877.21		AVRG		0.00109		916.54	4	0.995	20	
MTBE	Z		253.00	255.60	260.15	273.49	291.73	276.42	271.78	AVRG		0.00372		268.88	5	0.995	20	
Benzene	Z	540.00		606.60	672.00	735.01	741.20	724.89		AVRG		0.00149		669.95	12	0.995	20	
Toluene	Z	528.00		576.80	625.60	675.42	680.46	666.76		AVRG		0.00160		625.51	10	0.995	20	
Ethylbenzene	Z	448.00		515.08	561.10	602.50	606.62	595.10		AVRG		0.00180		554.73	11	0.995	20	
m,p-Xylenes	Z	564.00		694.12	726.00	779.98	782.85	768.45		AVRG		0.00139		719.23	12	0.995	20	
o-Xylene	Z	392.00		508.80	544.60	600.12	608.23	595.43		AVRG		0.00185		541.53	15	0.995	20	

25

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

346094312002

CURTIS & TOMPKINS SPIKE USER REPORT FOR EPA 8015B / EPA 8021B

Inst : GC19 Run Name: QC332214 IDF : 1.0
Seqnum : 346114789001 File : 079_001 Time : 20-MAR-2006 17:09
Standards: S2915 (1000X), S2543 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
MTBE	Y	346094312002	06-MAR-2006	289.60	100.0	110	ng	8	15	
MTBE	Z	346094312002	06-MAR-2006	245.40	100.0	91	ng	-9	15	
Benzene	Y	346094312002	06-MAR-2006	1256.2	100.0	110	ng	9	15	
Benzene	Z	346094312002	06-MAR-2006	695.50	100.0	100	ng	4	15	
Toluene	Y	346094312002	06-MAR-2006	1152.4	100.0	110	ng	10	15	
Toluene	Z	346094312002	06-MAR-2006	652.40	100.0	100	ng	4	15	
Ethylbenzene	Y	346094312002	06-MAR-2006	1022.8	100.0	110	ng	10	15	
Ethylbenzene	Z	346094312002	06-MAR-2006	573.60	100.0	100	ng	3	15	
m,p-Xylenes	Y	346094312002	06-MAR-2006	1234.4	100.0	100	ng	2	15	
m,p-Xylenes	Z	346094312002	06-MAR-2006	670.90	100.0	93	ng	-7	15	
o-Xylene	Y	346094312002	06-MAR-2006	1010.0	100.0	110	ng	10	15	
o-Xylene	Z	346094312002	06-MAR-2006	562.50	100.0	100	ng	4	15	
Trifluorotoluene (FID)	X	346094312001	06-MAR-2006	545.34	450.0	500	ng	11	15	
Bromofluorobenzene (FID)	X	346094312001	06-MAR-2006	376.56	450.0	470	ng	4	15	
Trifluorotoluene (PID)	Y	346094312001	06-MAR-2006	360.96	450.0	470	ng	5	15	
Trifluorotoluene (PID)	Z	346094312001	06-MAR-2006	200.36	450.0	440	ng	-3	15	
Bromofluorobenzene (PID)	Y	346094312001	06-MAR-2006	808.44	450.0	450	ng	1	15	
Bromofluorobenzene (PID)	Z	346094312001	06-MAR-2006	459.80	450.0	410	ng	-8	15	

CURTIS & TOMPKINS SPIKE USER REPORT FOR EPA 8015B / EPA 8021B

Inst : GC19 Run Name: QC332215 IDF : 1.0
Seqnum : 346114789002 File : 079_002 Time : 20-MAR-2006 17:44
Standards: S2869 (1000X), S2543 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	X	345499226002	13-DEC-2005	528.94	10000	9200	ng	-8	15	
Trifluorotoluene (FID)	X	346094312001	06-MAR-2006	622.10	450.0	570	ng	**26** PASS	15	c+
Bromofluorobenzene (FID)	X	346094312001	06-MAR-2006	395.81	450.0	490	ng	10	15	
Trifluorotoluene (PID)	Y	346094312001	06-MAR-2006	416.20	450.0	550	ng	**21** N/A	15	c+
Trifluorotoluene (PID)	Z	346094312001	06-MAR-2006	270.82	450.0	590	ng	**32**	15	c+
Bromofluorobenzene (PID)	Y	346094312001	06-MAR-2006	827.98	450.0	460	ng	3	15	
Bromofluorobenzene (PID)	Z	346094312001	06-MAR-2006	473.12	450.0	420	ng	-6	15	

AW 3/21/06

IN-House QC Limits:

TFT-FID-W:
69-137 % Rec.

[illegible] 3/22/06

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8015B / EPA 8021B

Inst : GC19 Run Name: btxe IDF : 1.0
Seqnum : 346114789011 File : 079_011 Time : 21-MAR-2006 00:43
Standards: S2915 (666.7X), S2543 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Trifluorotoluene (FID)	X	346094312001	06-MAR-2006	547.68	450.0	501.1	ng	11	15	
Bromofluorobenzene (FID)	X	346094312001	06-MAR-2006	369.62	450.0	461.2	ng	2	15	
MTBE	Y	346094312002	06-MAR-2006	300.71	150.0	167.9	ng	12	15	
Benzene	Y	346094312002	06-MAR-2006	1227.1	150.0	160.3	ng	7	15	
Toluene	Y	346094312002	06-MAR-2006	1125.4	150.0	161.7	ng	8	15	
Ethylbenzene	Y	346094312002	06-MAR-2006	996.43	150.0	160.6	ng	7	15	
m,p-Xylenes	Y	346094312002	06-MAR-2006	1160.5	150.0	143.4	ng	-4	15	
o-Xylene	Y	346094312002	06-MAR-2006	968.33	150.0	158.5	ng	6	15	
Trifluorotoluene (PID)	Y	346094312001	06-MAR-2006	371.01	450.0	486.3	ng	8	15	
Bromofluorobenzene (PID)	Y	346094312001	06-MAR-2006	808.36	450.0	452.8	ng	1	15	
MTBE	Z	346094312002	06-MAR-2006	239.47	150.0	133.6	ng	-11	15	
Benzene	Z	346094312002	06-MAR-2006	687.37	150.0	153.9	ng	3	15	
Toluene	Z	346094312002	06-MAR-2006	642.33	150.0	154.0	ng	3	15	
Ethylbenzene	Z	346094312002	06-MAR-2006	552.47	150.0	149.4	ng	0	15	
m,p-Xylenes	Z	346094312002	06-MAR-2006	639.97	150.0	133.5	ng	-11	15	
o-Xylene	Z	346094312002	06-MAR-2006	541.33	150.0	149.9	ng	0	15	
Trifluorotoluene (PID)	Z	346094312001	06-MAR-2006	202.71	450.0	443.9	ng	-1	15	
Bromofluorobenzene (PID)	Z	346094312001	06-MAR-2006	453.69	450.0	406.4	ng	-10	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8015B / EPA 8021B

Inst : GC19 Run Name: btxe IDF : 1.0
Seqnum : 346114789012 File : 079_012 Time : 21-MAR-2006 01:16
Standards: S2915 (666.7X), S2543 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Trifluorotoluene (FID)	X	346094312001	06-MAR-2006	541.02	450.0	495.0	ng	10	15	
Bromofluorobenzene (FID)	X	346094312001	06-MAR-2006	370.36	450.0	462.1	ng	3	15	
MTBE	Y	346094312002	06-MAR-2006	280.27	150.0	156.5	ng	4	15	
Benzene	Y	346094312002	06-MAR-2006	1244.3	150.0	162.6	ng	8	15	
Toluene	Y	346094312002	06-MAR-2006	1162.2	150.0	167.0	ng	11	15	
Ethylbenzene	Y	346094312002	06-MAR-2006	1024.4	150.0	165.2	ng	10	15	
m,p-Xylenes	Y	346094312002	06-MAR-2006	1213.8	150.0	150.0	ng	0	15	
o-Xylene	Y	346094312002	06-MAR-2006	1014.3	150.0	166.0	ng	11	15	
Trifluorotoluene (PID)	Y	346094312001	06-MAR-2006	365.18	450.0	478.6	ng	6	15	
Bromofluorobenzene (PID)	Y	346094312001	06-MAR-2006	808.47	450.0	452.9	ng	1	15	
MTBE	Z	346094312002	06-MAR-2006	247.73	150.0	138.2	ng	-8	15	
Benzene	Z	346094312002	06-MAR-2006	699.93	150.0	156.7	ng	4	15	
Toluene	Z	346094312002	06-MAR-2006	663.73	150.0	159.2	ng	6	15	
Ethylbenzene	Z	346094312002	06-MAR-2006	574.80	150.0	155.4	ng	4	15	
m,p-Xylenes	Z	346094312002	06-MAR-2006	668.90	150.0	139.5	ng	-7	15	
o-Xylene	Z	346094312002	06-MAR-2006	568.13	150.0	157.4	ng	5	15	
Trifluorotoluene (PID)	Z	346094312001	06-MAR-2006	202.38	450.0	443.2	ng	-2	15	
Bromofluorobenzene (PID)	Z	346094312001	06-MAR-2006	454.00	450.0	406.6	ng	-10	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8015B / EPA 8021B

Inst : GC19 Run Name: tvh IDF : 1.0
Seqnum : 346114789013 File : 079_013 Time : 21-MAR-2006 01:50
Standards: S2869 (666.7X), S2543 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C6-C10	X	345499226002	13-DEC-2005	474.34	15000	13270	ng	-12	15	
Gasoline C6-C12	X	345499226002	13-DEC-2005	635.11	15000	13470	ng	-10	15	
Gasoline C7-C12	X	345499226002	13-DEC-2005	527.49	15000	13760	ng	-8	15	
Trifluorotoluene (FID)	X	346094312001	06-MAR-2006	632.85	450.0	579.0	ng	**29**	Pass 15	c+
Bromofluorobenzene (FID)	X	346094312001	06-MAR-2006	390.47	450.0	487.2	ng	8	15	
Trifluorotoluene (PID)	Y	346094312001	06-MAR-2006	440.65	450.0	577.6	ng	**28**	N/A 15	c+
Bromofluorobenzene (PID)	Y	346094312001	06-MAR-2006	775.18	450.0	434.2	ng	-4	15	
Trifluorotoluene (PID)	Z	346094312001	06-MAR-2006	314.60	450.0	688.9	ng	**53**	N/A 15	c+
Bromofluorobenzene (PID)	Z	346094312001	06-MAR-2006	464.02	450.0	415.6	ng	-8	15	

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CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8015B / EPA 8021B

Inst : GC19 Run Name: tvh IDF : 1.0
Seqnum : 346114789014 File : 079_014 Time : 21-MAR-2006 02:23
Standards: S2869 (666.7X), S2543 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C6-C10	X	345499226002	13-DEC-2005	467.89	15000	13090	ng	-13	15	
Gasoline C6-C12	X	345499226002	13-DEC-2005	626.22	15000	13280	ng	-11	15	
Gasoline C7-C12	X	345499226002	13-DEC-2005	520.12	15000	13570	ng	-10	15	
Trifluorotoluene (FID)	X	346094312001	06-MAR-2006	634.74	450.0	580.8	ng	**29**	Pass 15	c+
Bromofluorobenzene (FID)	X	346094312001	06-MAR-2006	388.76	450.0	485.1	ng	8	15	
Trifluorotoluene (PID)	Y	346094312001	06-MAR-2006	438.57	450.0	574.8	ng	**28**	N/A 15	c+
Bromofluorobenzene (PID)	Y	346094312001	06-MAR-2006	779.62	450.0	436.7	ng	-3	15	
Trifluorotoluene (PID)	Z	346094312001	06-MAR-2006	314.99	450.0	689.7	ng	**53**	N/A 15	c+
Bromofluorobenzene (PID)	Z	346094312001	06-MAR-2006	472.51	450.0	423.2	ng	-6	15	

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CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8015B / EPA 8021B

Inst : GC19 Run Name: tvh IDF : 1.0
Seqnum : 346114789017 File : 079_017 Time : 21-MAR-2006 04:04
Standards: S2869 (2000X), S2543 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C6-C10	X	345499226002	13-DEC-2005	490.49	5000	4573	ng	-9	15	
Gasoline C6-C12	X	345499226002	13-DEC-2005	654.11	5000	4623	ng	-8	15	
Gasoline C7-C12	X	345499226002	13-DEC-2005	540.15	5000	4696	ng	-6	15	
Trifluorotoluene (FID)	X	346094312001	06-MAR-2006	631.35	450.0	577.7	ng	28	15	c+
Bromofluorobenzene (FID)	X	346094312001	06-MAR-2006	369.51	450.0	461.1	ng	2	15	
Trifluorotoluene (PID)	Y	346094312001	06-MAR-2006	377.17	450.0	494.3	ng	10	15	
Bromofluorobenzene (PID)	Y	346094312001	06-MAR-2006	788.11	450.0	441.5	ng	-2	15	
Trifluorotoluene (PID)	Z	346094312001	06-MAR-2006	229.17	450.0	501.8	ng	12	15	
Bromofluorobenzene (PID)	Z	346094312001	06-MAR-2006	451.81	450.0	404.7	ng	-10	15	

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CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8015B / EPA 8021B

Inst : GC19 Run Name: tvh IDF : 1.0
Seqnum : 346114789018 File : 079_018 Time : 21-MAR-2006 04:37
Standards: S2869 (2000X), S2543 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C6-C10	X	345499226002	13-DEC-2005	487.18	5000	4542	ng	-9	15	
Gasoline C6-C12	X	345499226002	13-DEC-2005	648.99	5000	4587	ng	-8	15	
Gasoline C7-C12	X	345499226002	13-DEC-2005	538.04	5000	4678	ng	-6	15	
Trifluorotoluene (FID)	X	346094312001	06-MAR-2006	630.87	450.0	577.2	ng	**28**	PASS 15	c+
Bromofluorobenzene (FID)	X	346094312001	06-MAR-2006	402.41	450.0	502.1	ng	12	15	
Trifluorotoluene (PID)	Y	346094312001	06-MAR-2006	413.81	450.0	542.4	ng	**21**	N/A 15	c+
Bromofluorobenzene (PID)	Y	346094312001	06-MAR-2006	854.29	450.0	478.5	ng	6	15	
Trifluorotoluene (PID)	Z	346094312001	06-MAR-2006	247.70	450.0	542.4	ng	**21**	N/A 15	c+
Bromofluorobenzene (PID)	Z	346094312001	06-MAR-2006	497.31	450.0	445.4	ng	-1	15	

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PROJECT GCMS Sequence by BK

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 12-DEC-2005

Sequence: 345499226 Instrument: GC19
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #19 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	346_001	X	ib			12-DEC-2005 16:26	1.0					1	
002	346_002	X	ib			12-DEC-2005 17:00	1.0					1	
003	346_003	ICAL	btxe 1			12-DEC-2005 17:35	1.0					2 1 pass	
004	346_004	ICAL	mtbe 1			12-DEC-2005 18:09	1.0					3 1	
005	346_005	ICAL	btxe 2			12-DEC-2005 18:43	1.0					3 1	
006	346_006	ICAL	btxe 3			12-DEC-2005 19:17	1.0					3 1	
007	346_007	ICAL	btxe 4			12-DEC-2005 19:51	1.0					4 1	
008	346_008	ICAL	btxe 5			12-DEC-2005 20:25	1.0					4 1	
009	346_009	ICAL	btxe 6			12-DEC-2005 20:59	1.0					4 1	
010	346_010	ICAL	mtbe 7			12-DEC-2005 21:33	1.0					5 1	
011	346_011	X	ib			12-DEC-2005 22:07	1.0					1	
012	346_012	X	mbtxe			12-DEC-2005 22:41	1.0					6 1 not used	
013	346_013	ICV	mbtxe			12-DEC-2005 23:15	1.0	1	5000			6 1 pass	
014	346_014	X	ib			12-DEC-2005 23:49	1.0					1	
015	346_015	X	ib			13-DEC-2005 00:23	1.0					1	
016	346_016	ICAL	tvh 1			13-DEC-2005 00:57	1.0					7 1 pass	
017	346_017	ICAL	tvh 2			13-DEC-2005 01:31	1.0					8 1	
018	346_018	ICAL	tvh 3			13-DEC-2005 02:05	1.0					9 1	
019	346_019	ICAL	tvh 4			13-DEC-2005 02:39	1.0					10 1	
020	346_020	ICAL	tvh 5			13-DEC-2005 03:13	1.0					10 1	
021	346_021	X	ib			13-DEC-2005 03:47	1.0					1	
022	346_022	X	tvh			13-DEC-2005 04:21	1.0					11 1 Not used	
023	346_023	ICV	tvh			13-DEC-2005 04:55	1.0		5000			11 1 pass	
024	346_024	X	ib			13-DEC-2005 05:29	1.0					1	
025	346_025	X	carbmark			13-DEC-2005 06:03	1.0					12 13 1 use	

Stds used: 1=S1895 2=S1489 3=S1490 4=S1491 5=S1492 6=S2157 7=S1367 8=S1368 9=S1369 10=S1370 11=S2241 12=S1645 13=S1646

Analyst: Date: 12/14/05

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 346094312 Instrument: GC19 Gas Chromatograph #19 TVH/BTXE Begun: 06-MAR-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC SPK uL	VL	pH	Stds Used	>LR
001	065_001	X	ib			06-MAR-2006 11:52	1.0				1	
002	065_002	ICAL	tft/bfb 1			06-MAR-2006 12:26	1.0				2 PASS/USE	
003	065_003	ICAL	tft/bfb 2			06-MAR-2006 13:02	1.0				3	
004	065_004	ICAL	tft/bfb 3			06-MAR-2006 13:36	1.0				4	
005	065_005	ICAL	tft/bfb 4			06-MAR-2006 15:06	1.0				5	
006	065_006	ICAL	tft/bfb 5			06-MAR-2006 15:39	1.0				6	
007	065_007	X	ib			06-MAR-2006 16:36	1.0				1	
008	065_008	ICAL	btxe 1			06-MAR-2006 17:10	1.0				7 1 PASS/USE	
009	065_009	ICAL	mtbe 1			06-MAR-2006 17:44	1.0				8 1	
010	065_010	ICAL	btxe 2			06-MAR-2006 18:18	1.0				8 1	
011	065_011	ICAL	btxe 3			06-MAR-2006 18:52	1.0				8 1	
012	065_012	ICAL	btxe 4			06-MAR-2006 19:26	1.0				9 1	
013	065_013	ICAL	btxe 5			06-MAR-2006 20:00	1.0				9 1	
014	065_014	ICAL	btxe 6			06-MAR-2006 20:34	1.0				9 1	
015	065_015	ICAL	mtbe 7			06-MAR-2006 21:08	1.0				10 1	
016	065_016	X	ib			06-MAR-2006 21:42	1.0				1	
017	065_017	ICV	mbtxe			06-MAR-2006 22:16	1.0	5000			11 1 PASS/USE	
018	065_018	X	mbtxe			06-MAR-2006 22:50	1.0				11 1 Not used	

Stds used: 1=S2543 2=S2572 3=S2573 4=S2574 5=S2575 6=S2576 7=S2850 8=S2849 9=S2848 10=S2847 11=S2157

Analyst: Micah [signature] Date: 03/07/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 346114789 Instrument: GC19 Gas Chromatograph #19 TVH/BTXE Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	079_001	CCV/LCS	QC332214	111476	Water	20-MAR-2006 17:09	1.0			5000			1 2	pass/use
002	079_002	CCV/LCS	QC332215	111476	Water	20-MAR-2006 17:44	1.0			5000			3 2	↓
003	079_003	BLANK	QC332213	111476	Water	20-MAR-2006 18:18	1.0	2		5000			2	≤ ½ RL
004	079_004	MS	QC332250	111476	Water	20-MAR-2006 20:46	1.0		2	5000	A	1.3	3 2	pass/use
005	079_005	MSD	QC332251	111476	Water	20-MAR-2006 21:20	1.0		1	5000	A	1.3	3 2	↓
006	079_006	MSS	185638-001	111476	Water	20-MAR-2006 21:54	1.0	2		5000			2	
007	079_007	SAMPLE	185638-002	111476	Water	20-MAR-2006 22:28	1.0	1		5000			2	
008	079_008	SAMPLE	185638-003	111476	Water	20-MAR-2006 23:02	1.0	1		5000			2	
009	079_009	SAMPLE	185638-004	111476	Water	20-MAR-2006 23:35	1.0	1	1	5000			2	
010	079_010	SAMPLE	185638-006	111476	Water	21-MAR-2006 00:09	1.0	1		5000	A	1.3	2	
011	079_011	CCV	btxe	111476		21-MAR-2006 00:43	1.0			5000			1 2	pass/use
012	079_012	CCV	btxe	111476		21-MAR-2006 01:16	1.0			5000			1 2	↓
013	079_013	CCV	tvh	111476		21-MAR-2006 01:50	1.0			5000			3 2	
014	079_014	CCV	tvh	111476		21-MAR-2006 02:23	1.0			5000			3 2	pass/use
015	079_015	SAMPLE	185638-005	111476	Water	21-MAR-2006 02:57	1.0	1		5000	A	1.3	2	
016	079_016	SAMPLE	185638-007	111476	Water	21-MAR-2006 03:30	1.0	1		5000	A	1.3	2	
017	079_017	CCV	tvh	111476		21-MAR-2006 04:04	1.0			5000			3 2	pass/use
018	079_018	CCV	tvh	111476		21-MAR-2006 04:37	1.0			5000			3 2	pass/use

Stds used: 1=S2915 2=S2543 3=S2869

Analyst: AW Date: 3/21/06

AW 3/21/06

Signed AW 3/21/06 Date

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REPORTING SUMMARY FOR 185638 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185638-001	Gasoline C7-C12	GC19	X	03/20/06 21:54
185638-001	MTBE	GC19	Y	03/20/06 21:54
185638-001	Benzene	GC19	Y	03/20/06 21:54
185638-001	Toluene	GC19	Y	03/20/06 21:54
185638-001	Ethylbenzene	GC19	Y	03/20/06 21:54
185638-001	Trifluorotoluene (FID)	GC19	X	03/20/06 21:54
185638-001	Bromofluorobenzene (FID)	GC19	X	03/20/06 21:54
185638-001	Trifluorotoluene (PID)	GC19	Y	03/20/06 21:54
185638-001	Bromofluorobenzene (PID)	GC19	Y	03/20/06 21:54
185638-001	Xylene (total)	GC19	Y	03/20/06 21:54
185638-002	Gasoline C7-C12	GC19	X	03/20/06 22:28
185638-002	MTBE	GC19	Y	03/20/06 22:28
185638-002	Benzene	GC19	Y	03/20/06 22:28
185638-002	Toluene	GC19	Y	03/20/06 22:28
185638-002	Ethylbenzene	GC19	Y	03/20/06 22:28
185638-002	Trifluorotoluene (FID)	GC19	X	03/20/06 22:28
185638-002	Bromofluorobenzene (FID)	GC19	X	03/20/06 22:28
185638-002	Trifluorotoluene (PID)	GC19	Y	03/20/06 22:28
185638-002	Bromofluorobenzene (PID)	GC19	Y	03/20/06 22:28
185638-002	Xylene (total)	GC19	Y	03/20/06 22:28
185638-003	Gasoline C7-C12	GC19	X	03/20/06 23:02
185638-003	MTBE	GC19	Y	03/20/06 23:02
185638-003	Benzene	GC19	Y	03/20/06 23:02
185638-003	Toluene	GC19	Y	03/20/06 23:02
185638-003	Ethylbenzene	GC19	Y	03/20/06 23:02
185638-003	Trifluorotoluene (FID)	GC19	X	03/20/06 23:02
185638-003	Bromofluorobenzene (FID)	GC19	X	03/20/06 23:02
185638-003	Trifluorotoluene (PID)	GC19	Y	03/20/06 23:02
185638-003	Bromofluorobenzene (PID)	GC19	Y	03/20/06 23:02
185638-003	Xylene (total)	GC19	Y	03/20/06 23:02
185638-004	Gasoline C7-C12	GC19	X	03/20/06 23:35
185638-004	MTBE	GC19	Y	03/20/06 23:35
185638-004	Benzene	GC19	Y	03/20/06 23:35
185638-004	Toluene	GC19	Y	03/20/06 23:35
185638-004	Ethylbenzene	GC19	Y	03/20/06 23:35
185638-004	Trifluorotoluene (FID)	GC19	X	03/20/06 23:35
185638-004	Bromofluorobenzene (FID)	GC19	X	03/20/06 23:35
185638-004	Trifluorotoluene (PID)	GC19	Y	03/20/06 23:35
185638-004	Bromofluorobenzene (PID)	GC19	Y	03/20/06 23:35
185638-004	Xylene (total)	GC19	Y	03/20/06 23:35
185638-005	Gasoline C7-C12	GC19	X	03/21/06 02:57
185638-005	Trifluorotoluene (FID)	GC19	X	03/21/06 02:57
185638-005	Bromofluorobenzene (FID)	GC19	X	03/21/06 02:57
185638-006	Gasoline C7-C12	GC19	X	03/21/06 00:09
185638-006	MTBE	GC19	Y	03/21/06 00:09
185638-006	Benzene	GC19	Y	03/21/06 00:09
185638-006	Toluene	GC19	Y	03/21/06 00:09
185638-006	Ethylbenzene	GC19	Y	03/21/06 00:09
185638-006	Trifluorotoluene (FID)	GC19	X	03/21/06 00:09

REPORTING SUMMARY FOR 185638 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185638-006	Bromofluorobenzene (FID)	GC19	X	03/21/06 00:09
185638-006	Trifluorotoluene (PID)	GC19	Y	03/21/06 00:09
185638-006	Bromofluorobenzene (PID)	GC19	Y	03/21/06 00:09
185638-006	Xylene (total)	GC19	Y	03/21/06 00:09
185638-007	Gasoline C7-C12	GC19	X	03/21/06 03:30
185638-007	Trifluorotoluene (FID)	GC19	X	03/21/06 03:30
185638-007	Bromofluorobenzene (FID)	GC19	X	03/21/06 03:30
QC332213	Gasoline C7-C12	GC19	X	03/20/06 18:18
QC332213	MTBE	GC19	Y	03/20/06 18:18
QC332213	Benzene	GC19	Y	03/20/06 18:18
QC332213	Toluene	GC19	Y	03/20/06 18:18
QC332213	Ethylbenzene	GC19	Y	03/20/06 18:18
QC332213	Trifluorotoluene (FID)	GC19	X	03/20/06 18:18
QC332213	Bromofluorobenzene (FID)	GC19	X	03/20/06 18:18
QC332213	Trifluorotoluene (PID)	GC19	Y	03/20/06 18:18
QC332213	Bromofluorobenzene (PID)	GC19	Y	03/20/06 18:18
QC332213	Xylene (total)	GC19	Y	03/20/06 18:18
QC332214	MTBE	GC19	Y	03/20/06 17:09
QC332214	Benzene	GC19	Y	03/20/06 17:09
QC332214	Toluene	GC19	Y	03/20/06 17:09
QC332214	Ethylbenzene	GC19	Y	03/20/06 17:09
QC332214	Trifluorotoluene (PID)	GC19	Y	03/20/06 17:09
QC332214	Bromofluorobenzene (PID)	GC19	Y	03/20/06 17:09
QC332215	Gasoline C7-C12	GC19	X	03/20/06 17:44
QC332215	Trifluorotoluene (FID)	GC19	X	03/20/06 17:44
QC332215	Bromofluorobenzene (FID)	GC19	X	03/20/06 17:44
QC332250	Gasoline C7-C12	GC19	X	03/20/06 20:46
QC332250	Trifluorotoluene (FID)	GC19	X	03/20/06 20:46
QC332250	Bromofluorobenzene (FID)	GC19	X	03/20/06 20:46
QC332251	Gasoline C7-C12	GC19	X	03/20/06 21:20
QC332251	Trifluorotoluene (FID)	GC19	X	03/20/06 21:20
QC332251	Bromofluorobenzene (FID)	GC19	X	03/20/06 21:20

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111476
Date Started: 20-MAR-2006
Batched by : Micaela M. Perpetuo

Analysis : N/A
Bgroup : TVH
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185638-001			Treadwell & Rollo	Water	MBTXE, TVH	29-MAR-2006
185638-002			Treadwell & Rollo	Water	MBTXE, TVH	29-MAR-2006
185638-003			Treadwell & Rollo	Water	MBTXE, TVH	29-MAR-2006
185638-004			Treadwell & Rollo	Water	MBTXE, TVH	29-MAR-2006
185638-005			Treadwell & Rollo	Water	TVH	29-MAR-2006
185638-006			Treadwell & Rollo	Water	MBTXE, TVH	29-MAR-2006
185638-007			Treadwell & Rollo	Water	TVH	29-MAR-2006
QC332213	BLANK			Water		
QC332214	LCS			Water		
QC332215	LCS			Water		
QC332250	MS	of 185638-001		Water		
QC332251	MSD	of 185638-001		Water		

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water
As of 04/08/06

Analyte	Units	GC19 X	GC04 A	GC04 J	GC05 G	GC07 A
Gasoline C6-C10	ug/L	21	6.7	6.2	4.8	10
Gasoline C6-C12	ug/L	21	5.5	6.8	4.5	14
Gasoline C7-C12	ug/L	27	4.8	7.2	4.2	15
JP-4 C7-C12	ug/L	4.6		12	9.9	19
Gasoline C6-C8	ug/L					7.0
Gasoline C8-C10	ug/L					12
Trifluorotoluene (FID)	ug/L		3.9			9.8
Bromofluorobenzene (FID)	ug/L		5.2			7.5

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8021B Water
As of 04/08/06

Analyte	Units	GC19 Y	GC19 Z	GC04 K	GC04 L	GC05 H	GC05 I	GC07 B	GC07 C
MTBE	ug/L	0.49	0.18	0.45	0.83	0.30	0.62	0.35	0.23
Benzene	ug/L	0.073	0.033	0.094	0.16	0.034	0.057	0.23	0.035
Toluene	ug/L	0.13	0.025	0.14	0.11	0.048	0.15	0.069	0.024
Ethylbenzene	ug/L	0.14	0.024	0.038	0.12	0.036	0.17	0.084	0.056
m,p-Xylenes	ug/L	0.13	0.039	0.10	0.21	0.030	0.17	0.090	0.027
o-Xylene	ug/L	0.15	0.015	0.12	0.10	0.083	0.19	0.13	0.040

TOTAL EXTRACTABLE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185638	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/17/06
Units:	ug/L	Received:	03/17/06
Diln Fac:	1.000	Prepared:	03/26/06
Batch#:	111695		

Field ID:	514AGW101	Analyzed:	03/28/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	185638-001		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	86	65-135

Field ID:	FM14EX07GW102	Analyzed:	03/28/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	185638-002		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	87	65-135

Field ID:	1221GW101	Analyzed:	03/28/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	185638-003		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	85	65-135

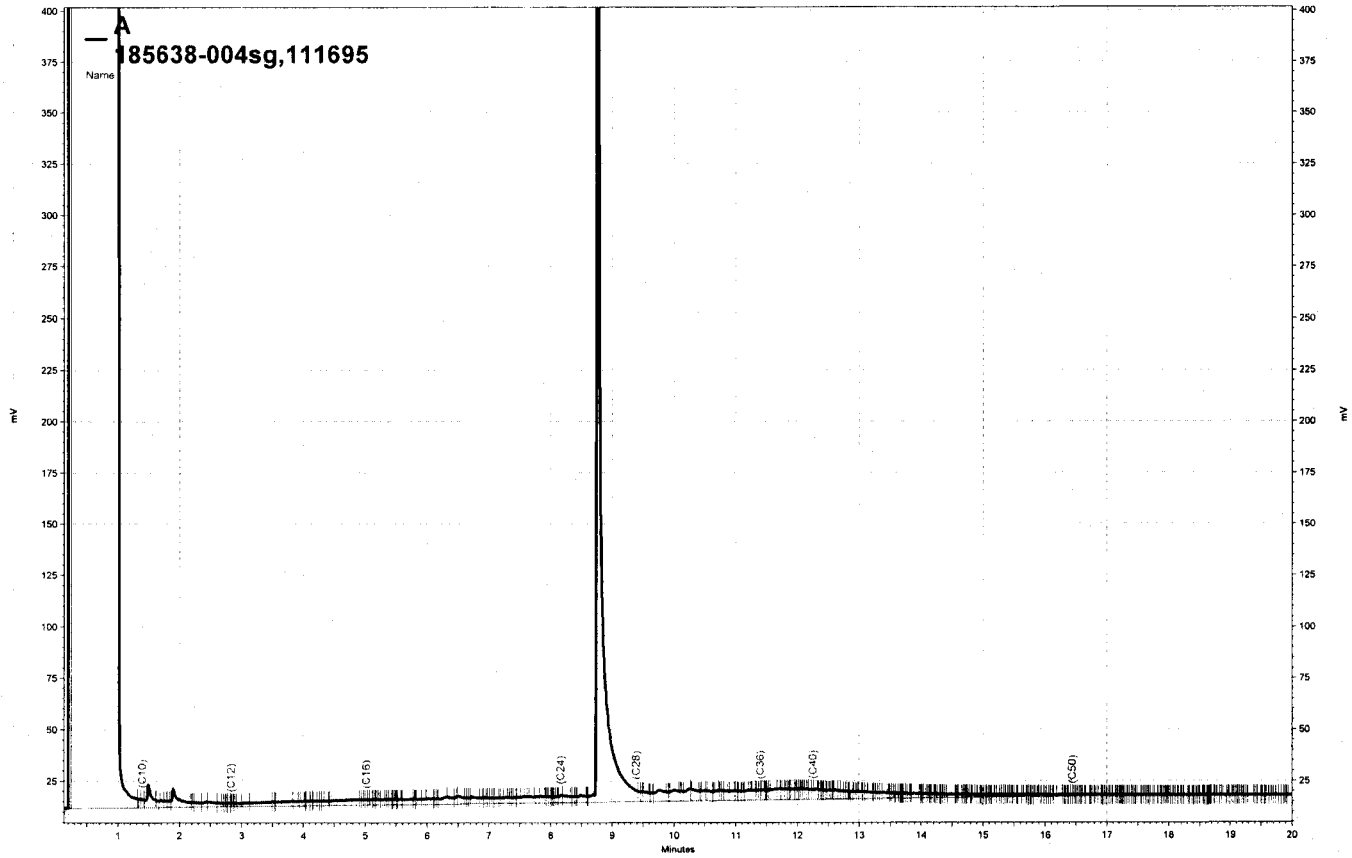
Field ID:	1221GW102	Analyzed:	03/29/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	185638-004		

Analyte	Result	RL
Diesel C12-C24	53 Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	80	65-135

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

1221GW102



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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185638	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/17/06
Units:	ug/L	Received:	03/17/06
Diln Fac:	1.000	Prepared:	03/26/06
Batch#:	111695		

Field ID:	1213GW101	Analyzed:	03/29/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	185638-005		

Analyte	Result	RL
Diesel C12-C24	61 Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	85	65-135

Field ID:	FM14EX07GW101	Analyzed:	03/29/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	185638-006		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	90	65-135

Field ID:	DUP0317062A	Analyzed:	03/29/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	185638-007		

Analyte	Result	RL
Diesel C12-C24	57 Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	86	65-135

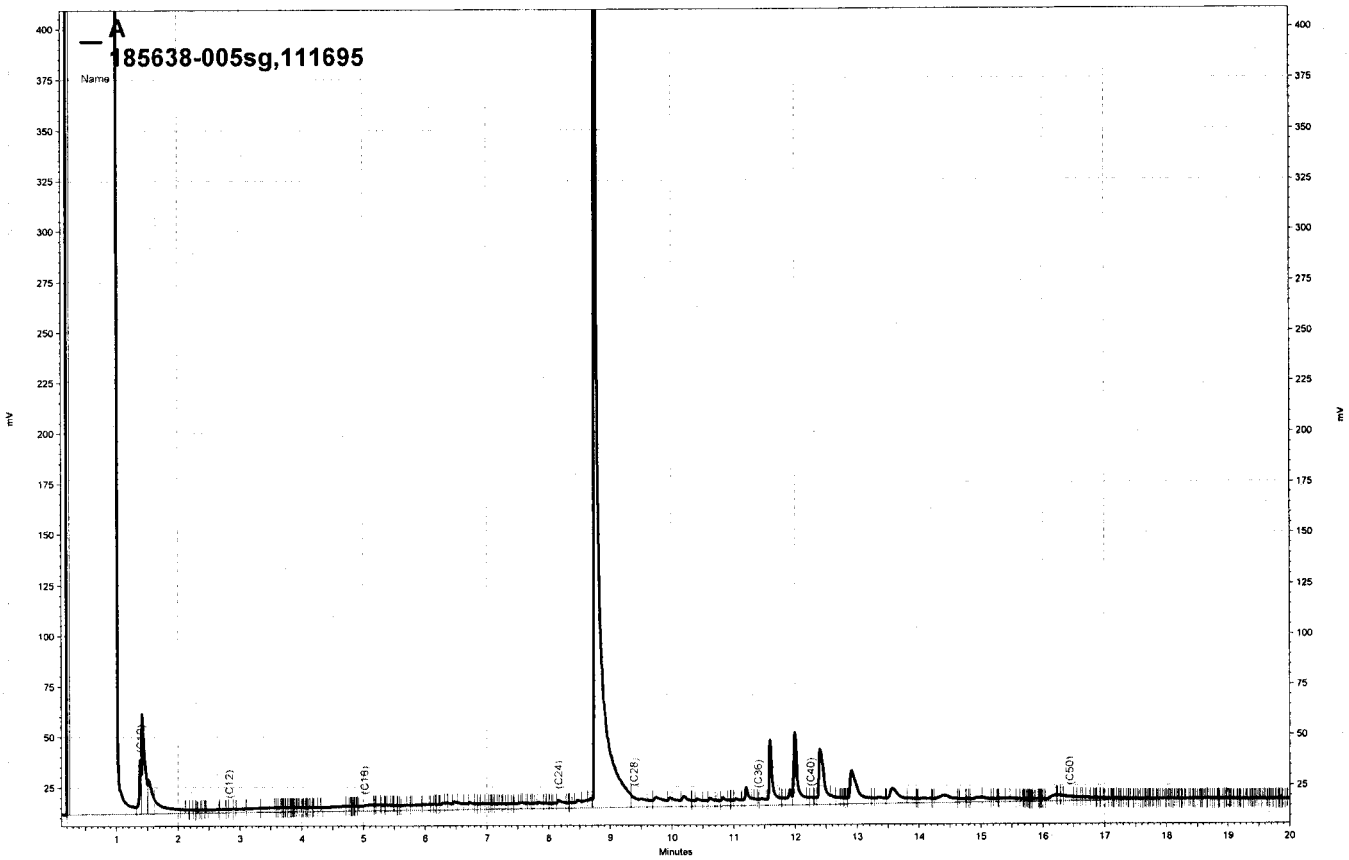
Type:	BLANK	Analyzed:	03/27/06
Lab ID:	QC333084	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	90	65-135

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

1213GW101



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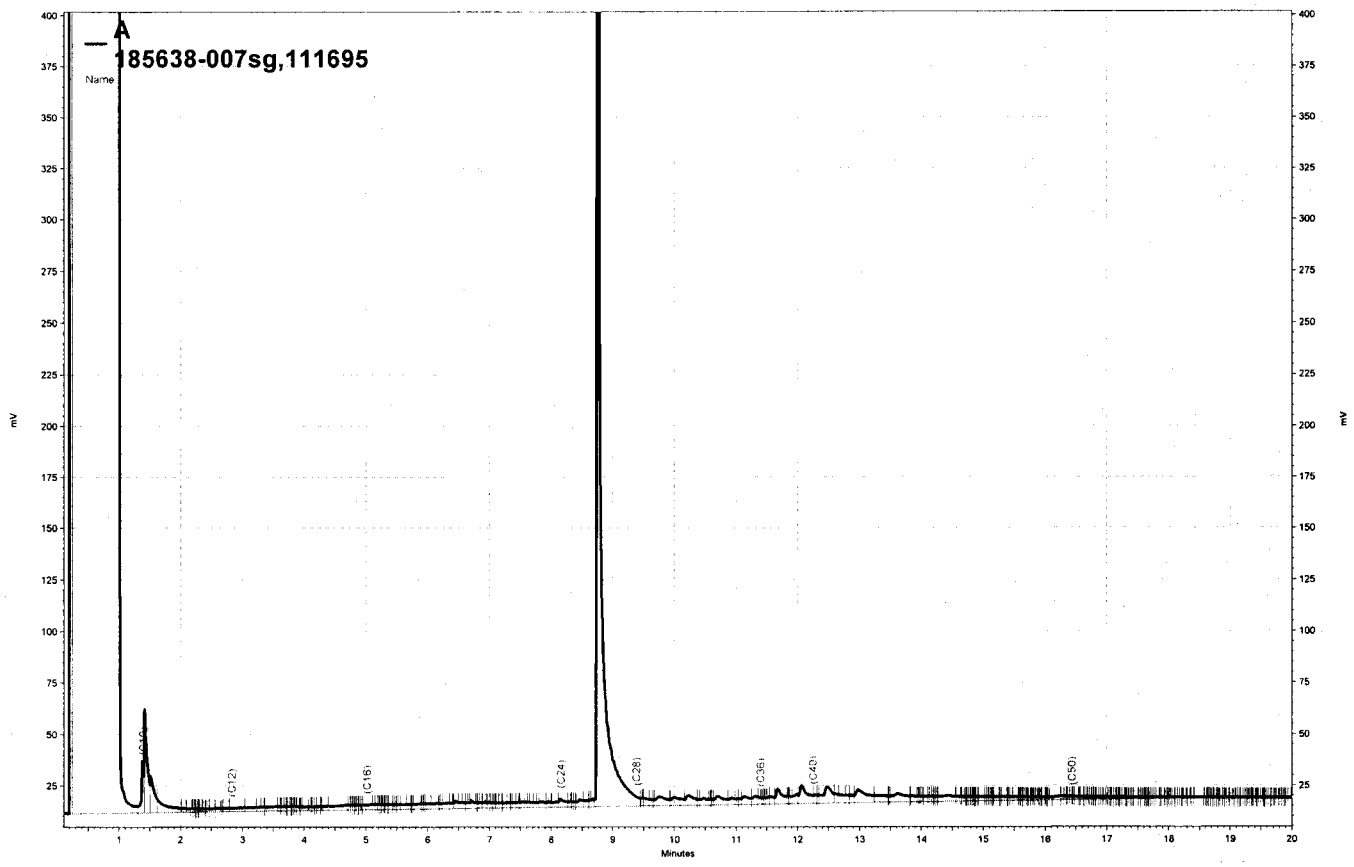
DUP0317062A



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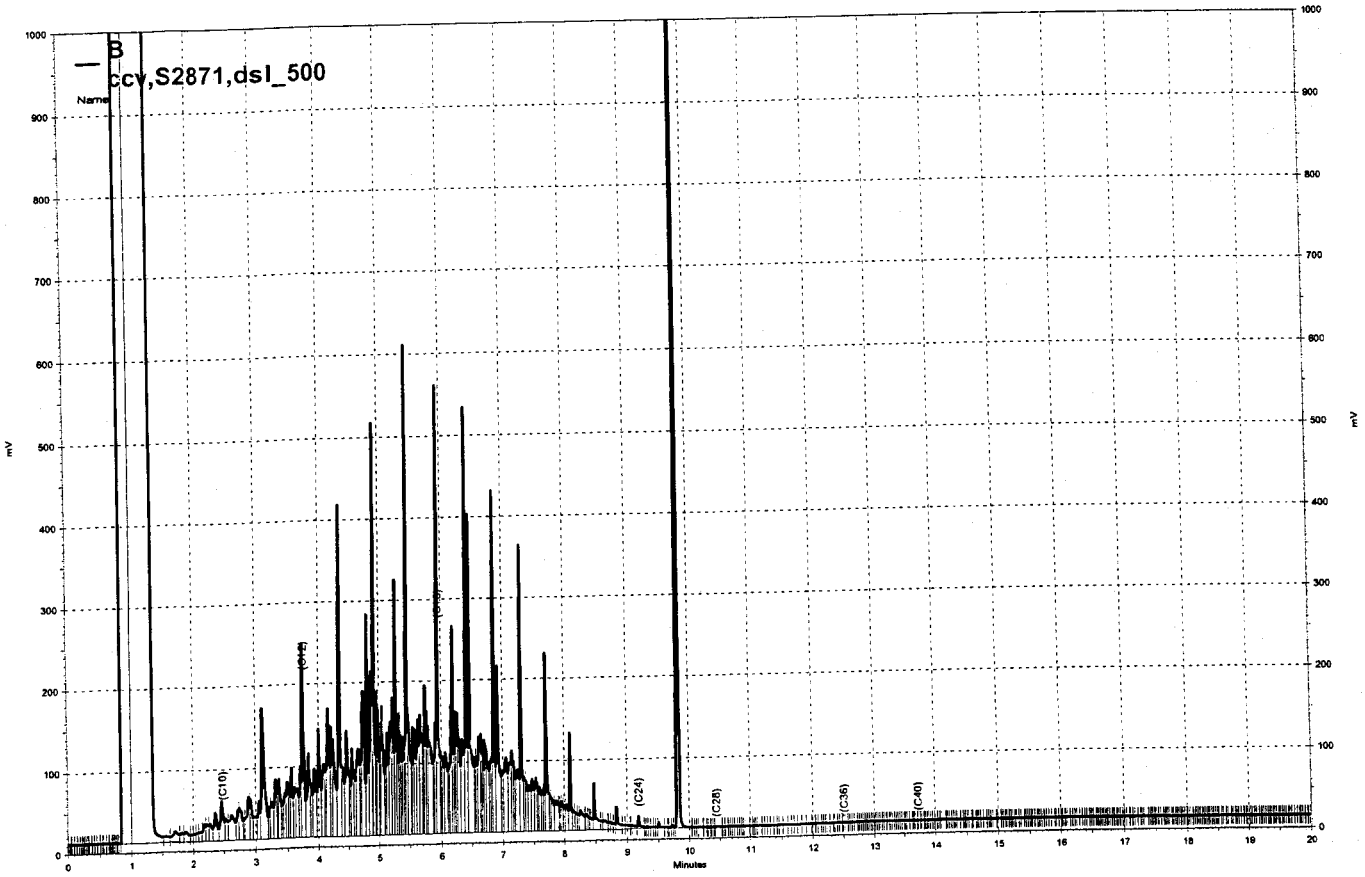
Diesel



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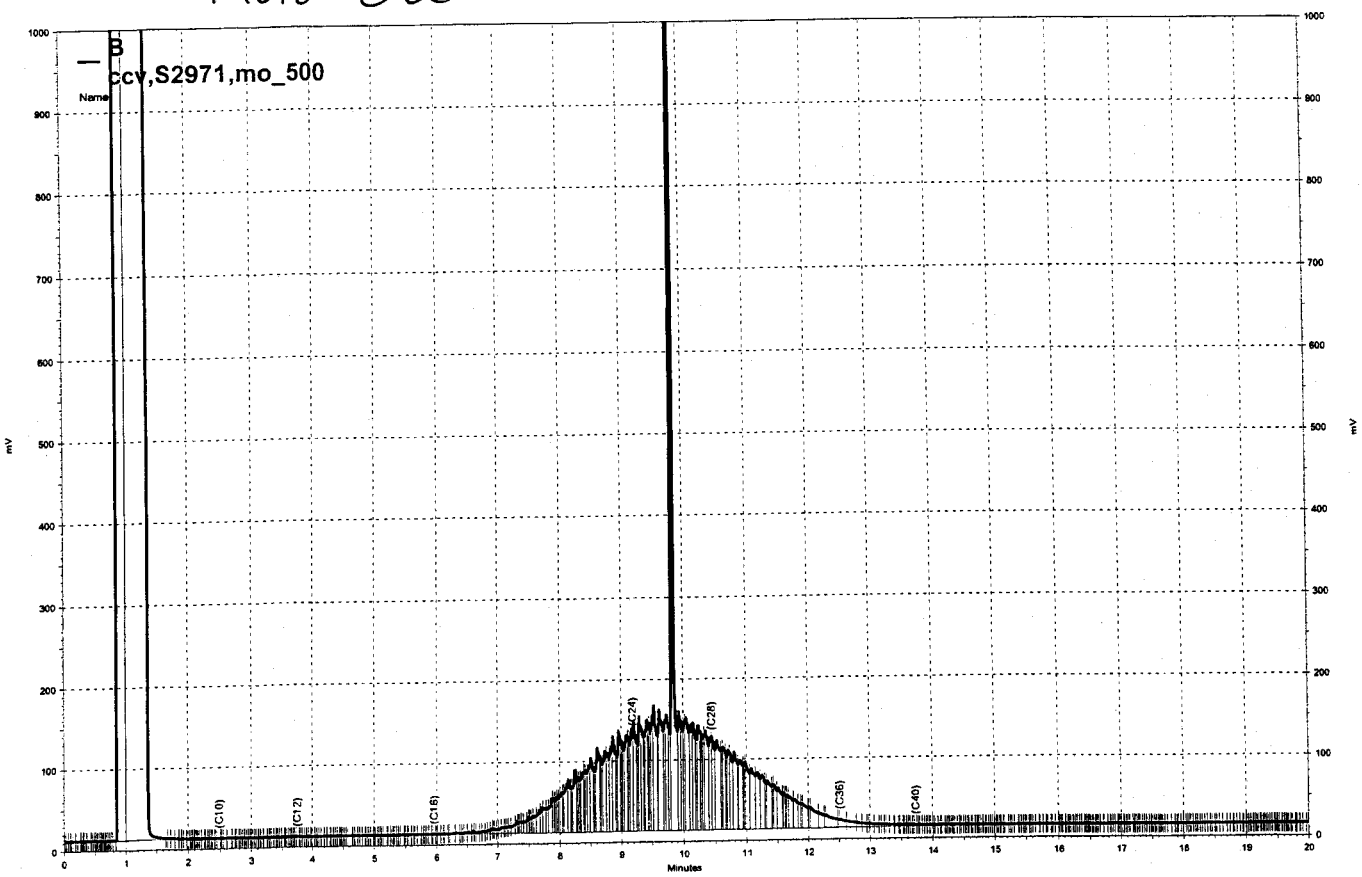
Motor Oil



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Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	185638	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	111695
Units:	ug/L	Prepared:	03/26/06
Diln Fac:	1.000	Analyzed:	03/27/06

Type: BS Cleanup Method: EPA 3630C
Lab ID: QC333085

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	2,500	2,274	91	65-135

Surrogate	%REC	Limits
Hexacosane	91	65-135

Type: BSD Cleanup Method: EPA 3630C
Lab ID: QC333086

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,615	105	65-135	14	35

Surrogate	%REC	Limits
Hexacosane	105	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185638 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 115446255002
Units : mg/L

Name : DIESEL
Date : 05-NOV-2005 23:53
X Axis : R

Reviewer: RH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	309a011	115446255011	dsl_10	05-NOV-2005 23:53	S1732
L2	309a013	115446255013	dsl_250	06-NOV-2005 00:49	S1734
L3	309a014	115446255014	dsl_500	06-NOV-2005 01:17	S1735
L4	309a015	115446255015	dsl_1000	06-NOV-2005 01:45	S1736
L5	309a016	115446255016	dsl_2500	06-NOV-2005 02:12	S1737
L6	309a017	115446255017	dsl_5000	06-NOV-2005 02:40	S1731
L7	309a039	115446255039	dsl_100	06-NOV-2005 22:23	S1733

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	66564	67471	67989	68804	69120	69411	70464	AVRG		1.46E-5		68546	2	0.995	20	

51

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185638 GCSV Water
EPA 8015B

Inst : GC11A
Calnum : 115446255002

Name : DIESEL
Cal Date: 05-NOV-2005

ICV 115446255040 (309a040 06-NOV-2005) stds: S1178

Analyte	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	500.0	498.6	mg/L	0	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185638 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 116049801004
Units : mg/L

Date : 04-FEB-2006 00:18
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	034a023	116049801023	mo_50	04-FEB-2006 00:18	S2118
L2	034a024	116049801024	mo_250	04-FEB-2006 00:46	S2119
L3	034a025	116049801025	mo_500	04-FEB-2006 01:14	S2120
L4	034a026	116049801026	mo_1000	04-FEB-2006 01:42	S2121
L5	034a027	116049801027	mo_2500	04-FEB-2006 02:10	S2122
L6	034a028	116049801028	mo_5000	04-FEB-2006 02:39	S2117

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	40103	42997	43448	44594	44247	45696	AVRG		2.30E-5		43514	4	0.995	20	

53

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185638 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 115446255001
Units : mg/L

Name : Hexacosane
Date : 05-NOV-2005 21:35
X Axis : R

Reviewer: RH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	309a006	115446255006	hex_5	05-NOV-2005 21:35	S1469
L2	309a007	115446255007	hex_10	05-NOV-2005 22:02	S1470
L3	309a008	115446255008	hex_25	05-NOV-2005 22:30	S1471
L4	309a009	115446255009	hex_50	05-NOV-2005 22:58	S1472
L5	309a010	115446255010	hex_75	05-NOV-2005 23:25	S1473

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	78300	78621	78154	81971	77951	AVRG		1.27E-5		78999	2	0.995	20	

54

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185638 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166117087001
Units : mg/L

Date : 22-MAR-2006 12:39
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	081b006	166117087006	dsl_10	22-MAR-2006 12:39	S2961
L2	081b007	166117087007	dsl_100	22-MAR-2006 13:07	S2938
L3	081b008	166117087008	dsl_250	22-MAR-2006 13:34	S2939
L4	081b009	166117087009	dsl_500	22-MAR-2006 14:02	S2940
L5	081b010	166117087010	dsl_1000	22-MAR-2006 14:30	S2941
L6	081b011	166117087011	dsl_2500	22-MAR-2006 14:57	S2942
L7	081b012	166117087012	dsl_5000	22-MAR-2006 15:25	S2936

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	60107	59785	55253	54313	53973	54874	53381	AVRG		1.79E-5		55955	5	0.995	20	

55

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

166117087001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185638 GCSV Water
EPA 8015B

Inst : GC15B
Calnum : 166117087001 Cal Date: 22-MAR-2006

ICV 166117087014 (081b014 22-MAR-2006) stds: S2708

Analyte	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	500.0	480.4	mg/L	-4	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185638 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166115824002
Units : mg/L

Date : 21-MAR-2006 14:52
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	080b006	166115824006	mo_50	21-MAR-2006 14:52	S2118
L2	080b007	166115824007	mo_250	21-MAR-2006 15:20	S2119
L3	080b008	166115824008	mo_500	21-MAR-2006 15:49	S2120
L4	080b009	166115824009	mo_1000	21-MAR-2006 16:17	S2121
L5	080b010	166115824010	mo_2500	21-MAR-2006 16:46	S2122
L6	080b011	166115824011	mo_5000	21-MAR-2006 17:15	S2117

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	35689	35718	36071	34029	27094	20672	AVRG		3.17E-5		31546	20	0.995	20	

57

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185638 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166114247001
Units : mg/L

Date : 20-MAR-2006 14:52
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	079b007	166114247007	hex_5	20-MAR-2006 14:52	S2694
L2	079b008	166114247008	hex_10	20-MAR-2006 15:20	S2695
L3	079b009	166114247009	hex_25	20-MAR-2006 15:49	S2696
L4	079b010	166114247010	hex_50	20-MAR-2006 16:17	S2697
L5	079b011	166114247011	hex_75	20-MAR-2006 16:45	S2698

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	64028	62636	61750	60993	60763	AVRG		1.61E-5		62034	2	0.995	20	

58

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185638 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176085452001
Units : mg/L

Date : 01-MAR-2006 07:43
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	059a013	176085452013	dsl_50	01-MAR-2006 07:43	S1732
L2	059a014	176085452014	dsl_100	01-MAR-2006 08:10	S1733
L3	059a015	176085452015	dsl_250	01-MAR-2006 08:37	S1734
L4	059a016	176085452016	dsl_500	01-MAR-2006 09:04	S1735
L5	059a017	176085452017	dsl_1000	01-MAR-2006 09:32	S1736
L6	059a018	176085452018	dsl_2500	01-MAR-2006 10:00	S1737
L7	059a019	176085452019	dsl_5000	01-MAR-2006 10:27	S1731

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	55630	52210	52572	55087	56497	58583	60304	AVRG		1.79E-5		55841	5	0.995	20	

59

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185638 GCSV Water
EPA 8015B

Inst : GC17A
Calnum : 176085452001 Cal Date: 01-MAR-2006

ICV 176085452021 (059a021 01-MAR-2006) stds: S2708

Analyte	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	500.0	454.9	mg/L	-9	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185638 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176093018001
Units : mg/L

Date : 05-MAR-2006 18:11
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	064a007	176093018007	mo_50	05-MAR-2006 18:11	S2118
L2	064a008	176093018008	mo_250	05-MAR-2006 18:38	S2119
L3	064a009	176093018009	mo_500	05-MAR-2006 19:05	S2120
L4	064a010	176093018010	mo_1000	05-MAR-2006 19:32	S2121
L5	064a011	176093018011	mo_2500	05-MAR-2006 20:00	S2122
L6	064a012	176093018012	mo_5000	05-MAR-2006 20:27	S2117

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	35446	41492	40972	42562	41512	41334	AVRG		2.47E-5		40553	6	0.995	20	

61

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185638 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176098515001
Units : mg/L

Name : hexagc17cal
Date : 09-MAR-2006 19:42
X Axis : R

Reviewer: CW
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	068a015	176098515015	hex_5	09-MAR-2006 19:42	S2694
L2	068a016	176098515016	hex_10	09-MAR-2006 20:09	S2695
L3	068a017	176098515017	hex_25	09-MAR-2006 20:37	S2696
L4	068a018	176098515018	hex_50	09-MAR-2006 21:04	S2697
L5	068a019	176098515019	hex_75	09-MAR-2006 21:31	S2698

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	81036	80318	79162	79599	78325	AVRG		1.25E-5		79688	1	0.995	20	

62

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION SUMMARY FOR 185638 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116127194004	29-MAR-2006 09:18	115446255002	05-NOV-2005	68546	63484	500.00	463.07	mg/L	-7	15	
GC11A	A	116127194015	29-MAR-2006 14:53	115446255002	05-NOV-2005	68546	64789	1000.0	945.18	mg/L	-5	15	
GC15B	B	166123373054	27-MAR-2006 19:12	166117087001	22-MAR-2006	55955	50439	250.00	225.36	mg/L	-10	15	
GC15B	B	166123373069	28-MAR-2006 02:13	166117087001	22-MAR-2006	55955	47538	250.00	212.39	mg/L	-15	15	
GC17A	A	176126174004	28-MAR-2006 16:16	176085452001	01-MAR-2006	55841	58501	250.00	261.91	mg/L	5	15	
GC17A	A	176126174018	28-MAR-2006 23:06	176085452001	01-MAR-2006	55841	61216	500.00	548.13	mg/L	10	15	

CONTINUING CALIBRATION SUMMARY FOR 185638 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116127194003	29-MAR-2006 08:50	116049801004	04-FEB-2006	43514	38956	500.00	447.62	mg/L	-10	15	
GC11A	A	116127194014	29-MAR-2006 14:25	116049801004	04-FEB-2006	43514	38702	500.00	444.70	mg/L	-11	15	
GC15B	B	166123373055	27-MAR-2006 19:40	166115824002	21-MAR-2006	31546	29907	500.00	474.02	mg/L	-5	15	
GC15B	B	166123373068	28-MAR-2006 01:45	166115824002	21-MAR-2006	31546	28607	500.00	453.42	mg/L	-9	15	
GC17A	A	176126174003	28-MAR-2006 15:49	176093018001	05-MAR-2006	40553	36113	500.00	445.26	mg/L	-11	15	
GC17A	A	176126174017	28-MAR-2006 22:39	176093018001	05-MAR-2006	40553	37150	500.00	458.04	mg/L	-8	15	

CONTINUING CALIBRATION SUMMARY FOR 185638 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116127194003	29-MAR-2006 08:50	115446255001	05-NOV-2005	78999	69191	50.000	43.792	mg/L	-12	15	
GC11A	A	116127194014	29-MAR-2006 14:25	115446255001	05-NOV-2005	78999	68906	50.000	43.612	mg/L	-13	15	
GC15B	B	166123373054	27-MAR-2006 19:12	166114247001	20-MAR-2006	62034	62267	50.000	50.188	mg/L	0	15	
GC15B	B	166123373068	28-MAR-2006 01:45	166114247001	20-MAR-2006	62034	60102	50.000	48.442	mg/L	-3	15	
GC17A	A	176126174003	28-MAR-2006 15:49	176098515001	09-MAR-2006	79688	71751	50.000	45.020	mg/L	-10	15	
GC17A	A	176126174017	28-MAR-2006 22:39	176098515001	09-MAR-2006	79688	74484	50.000	46.735	mg/L	-7	15	

SEQUENCE SUMMARY FOR 185638 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 115446255 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 05-NOV-2005
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
003	309a003	X	c12-60			05-NOV-2005 20:11	1.0						
004	309a004	X	c50			05-NOV-2005 20:39	1.0						
005	309a005	X	ib			05-NOV-2005 21:07	1.0						
006	309a006	ICAL	hex_5			05-NOV-2005 21:35	1.0					1	
007	309a007	ICAL	hex_10			05-NOV-2005 22:02	1.0					2	
008	309a008	ICAL	hex_25			05-NOV-2005 22:30	1.0					3	
009	309a009	ICAL	hex_50			05-NOV-2005 22:58	1.0					4	
010	309a010	ICAL	hex_75			05-NOV-2005 23:25	1.0					5	
011	309a011	ICAL	dsl_10			05-NOV-2005 23:53	1.0					6	
013	309a013	ICAL	dsl_250			06-NOV-2005 00:49	1.0					7	
014	309a014	ICAL	dsl_500			06-NOV-2005 01:17	1.0					8	
015	309a015	ICAL	dsl_1000			06-NOV-2005 01:45	1.0					9	
016	309a016	ICAL	dsl_2500			06-NOV-2005 02:12	1.0					10	
017	309a017	ICAL	dsl_5000			06-NOV-2005 02:40	1.0					11	
039	309a039	ICAL	dsl_100			06-NOV-2005 22:23	1.0					12	99
040	309a040	ICV	dsl			06-NOV-2005 23:18	1.0		3			13	
041	309a041	ICAL	mo_50			06-NOV-2005 23:46	1.0					14	
042	309a042	ICAL	mo_250			07-NOV-2005 00:14	1.0					15	
043	309a043	ICAL	mo_500			07-NOV-2005 00:42	1.0					16	
044	309a044	ICAL	mo_1000			07-NOV-2005 01:10	1.0					17	
045	309a045	ICAL	mo_2500			07-NOV-2005 01:38	1.0					18	
046	309a046	ICAL	mo_5000			07-NOV-2005 02:06	1.0					19	

Stds used: 1=S1469 2=S1470 3=S1471 4=S1472 5=S1473 6=S1732 7=S1734 8=S1735 9=S1736 10=S1737 11=S1731 12=S1733 13=S1178 14=S693 15=S694 16=S695 17=S696 18=S697 19=S691

SEQUENCE SUMMARY FOR 185638 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116049801 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 03-FEB-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	034a001	X	primer			03-FEB-2006 14:01	1.0							
002	034a002	X	ib			03-FEB-2006 14:29	1.0							
003	034a003	CCV	dsl_250			03-FEB-2006 14:57	1.0			3			1	
004	034a004	X	ib			03-FEB-2006 15:25	1.0							
005	034a005	CCV	mo_500			03-FEB-2006 15:53	1.0	6		3			2	
006	034a006	?SAMPLE	184620-007			03-FEB-2006 16:21	1.0							
007	034a007	?SAMPLE	184620-008			03-FEB-2006 16:49	1.0							
008	034a008	?SAMPLE	184620-009			03-FEB-2006 17:17	1.0							
009	034a009	?SAMPLE	184620-010			03-FEB-2006 17:45	1.0							
010	034a010	X	ib			03-FEB-2006 18:13	1.0							
011	034a011	?SAMPLE	184620-006			03-FEB-2006 18:41	1.0							
012	034a012	?SAMPLE	184620-004			03-FEB-2006 19:09	1.0							
013	034a013	?SAMPLE	184620-005			03-FEB-2006 19:37	1.0							
014	034a014	X	ib			03-FEB-2006 20:05	1.0							
015	034a015	?SAMPLE	184620-001			03-FEB-2006 20:33	1.0							
016	034a016	?SAMPLE	184620-002			03-FEB-2006 21:01	1.0							
017	034a017	?SAMPLE	184620-003			03-FEB-2006 21:29	1.0							
018	034a018	X	ib			03-FEB-2006 21:57	1.0							
019	034a019	CCV	dsl_500			03-FEB-2006 22:25	1.0						3	
020	034a020	X	ib			03-FEB-2006 22:54	1.0							
021	034a021	X	ib			03-FEB-2006 23:22	1.0							
022	034a022	X	ib			03-FEB-2006 23:50	1.0							
023	034a023	ICAL	mo_50			04-FEB-2006 00:18	1.0						4	
024	034a024	ICAL	mo_250			04-FEB-2006 00:46	1.0						5	
025	034a025	ICAL	mo_500			04-FEB-2006 01:14	1.0						6	
026	034a026	ICAL	mo_1000			04-FEB-2006 01:42	1.0						7	
027	034a027	ICAL	mo_2500			04-FEB-2006 02:10	1.0						8	
028	034a028	ICAL	mo_5000			04-FEB-2006 02:39	1.0						9	
029	034a029	X	ib			04-FEB-2006 03:07	1.0							

Stds used: 1=S2505 2=S2577 3=S2504 4=S2118 5=S2119 6=S2120 7=S2121 8=S2122 9=S2117

SEQUENCE SUMMARY FOR 185638 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176085452 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 28-FEB-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	059a001	X	primer			28-FEB-2006 08:12	1.0							
002	059a002	X	primer			28-FEB-2006 11:01	1.0							
003	059a003	X	ib			28-FEB-2006 11:28	1.0							
004	059a004	CCV	S2662.dsl_50			28-FEB-2006 11:56	1.0							
005	059a005	CCV	mo_500			28-FEB-2006 12:23	1.0						1	
006	059a006	X	ccv			28-FEB-2006 14:08	1.0						1	
007	059a007	CCV	dsl_500			28-FEB-2006 16:04	1.0			3			2	
008	059a008	CCV	mo_500			28-FEB-2006 18:04	1.0	6		3			1	
009	059a009	X	ib			28-FEB-2006 22:27	1.0							
010	059a010	X	c 10-16			28-FEB-2006 22:54	20.0							
011	059a011	X	c 12-60			28-FEB-2006 23:21	1.0							
012	059a012	X	ib			01-MAR-2006 07:15	1.0							
013	059a013	ICAL	dsl_50			01-MAR-2006 07:43	1.0						3	
014	059a014	ICAL	dsl_100			01-MAR-2006 08:10	1.0						4	
015	059a015	ICAL	dsl_250			01-MAR-2006 08:37	1.0						5	
016	059a016	ICAL	dsl_500			01-MAR-2006 09:04	1.0						6	
017	059a017	ICAL	dsl_1000			01-MAR-2006 09:32	1.0						7	
018	059a018	ICAL	dsl_2500			01-MAR-2006 10:00	1.0						8	
019	059a019	ICAL	dsl_5000			01-MAR-2006 10:27	1.0						9	
020	059a020	X	ib			01-MAR-2006 10:54	1.0							
021	059a021	ICV	dsl_500			01-MAR-2006 11:22	1.0			3			10	
022	059a022	X	dsl_500			01-MAR-2006 11:49	1.0						10	
023	059a023	X	ib			01-MAR-2006 12:16	1.0							
024	059a024	ICAL	mo_50			01-MAR-2006 12:44	1.0						11	
025	059a025	ICAL	mo_250			01-MAR-2006 13:11	1.0						12	
026	059a026	ICAL	mo_500			01-MAR-2006 13:38	1.0						13	
027	059a027	ICAL	mo_1000			01-MAR-2006 14:06	1.0						14	
028	059a028	ICAL	mo_2500			01-MAR-2006 14:33	1.0						15	
029	059a029	ICAL	mo_5000			01-MAR-2006 15:01	1.0						16	
030	059a030	X	ib			01-MAR-2006 15:28	1.0							

Stds used: 1=S2741 2=S2662 3=S1732 4=S1733 5=S1734 6=S1735 7=S1736 8=S1737 9=S1731 10=S2708 11=S2118 12=S2119 13=S2120 14=S2121 15=S2122 16=S2117 17=S2694 18=S2695 19=S2696 20=S2697 21=S2698

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SEQUENCE SUMMARY FOR 185638 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176085452 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 28-FEB-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
031	059a031	ICAL	hex_5			01-MAR-2006 15:55	1.0					17	
032	059a032	ICAL	hex_10			01-MAR-2006 16:23	1.0					18	
033	059a033	ICAL	hex_25			01-MAR-2006 16:50	1.0					19	
034	059a034	ICAL	hex_50			01-MAR-2006 17:17	1.0					20	
035	059a035	ICAL	hex_75			01-MAR-2006 17:44	1.0					21	
036	059a036	X	ib			01-MAR-2006 18:11	1.0						

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Stds used: 1=S2741 2=S2662 3=S1732 4=S1733 5=S1734 6=S1735 7=S1736 8=S1737 9=S1731 10=S2708 11=S2118 12=S2119 13=S2120 14=S2121 15=S2122 16=S2117 17=S2694 18=S2695 19=S2696 20=S2697 21=S2698

SEQUENCE SUMMARY FOR 185638 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176093018 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 05-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	064a001	X	primer			05-MAR-2006 14:18	1.0						
002	064a002	X	ib			05-MAR-2006 14:45	1.0						
003	064a003	CCV	dsl_500			05-MAR-2006 15:13	1.0	1.0			3	1	
004	064a004	CCV	mo_500			05-MAR-2006 15:40	1.0	1.0	5		3	2	
005	064a005	CCV	bunk_1250			05-MAR-2006 16:07	1.0	1.0			3	3	
006	064a006	CCV	mo_500			05-MAR-2006 17:21	1.0	1.0	4		3	4	
007	064a007	ICAL	mo_50			05-MAR-2006 18:11	1.0	1.0				5	
008	064a008	ICAL	mo_250			05-MAR-2006 18:38	1.0	1.0				6	
009	064a009	ICAL	mo_500			05-MAR-2006 19:05	1.0	1.0				7	
010	064a010	ICAL	mo_1000			05-MAR-2006 19:32	1.0	1.0				8	
011	064a011	ICAL	mo_2500			05-MAR-2006 20:00	1.0	1.0				9	
012	064a012	ICAL	mo_5000			05-MAR-2006 20:27	1.0	1.0				10	
013	064a013	X	ib			05-MAR-2006 20:54	1.0						
014	064a014	X	ib			05-MAR-2006 21:21	1.0						
015	064a015	CCV	dsl_1000			05-MAR-2006 21:48	1.0					11	
016	064a016	CCV	mo_500			05-MAR-2006 22:16	1.0					4	
017	064a017	CCV	bunk_1250			05-MAR-2006 22:43	1.0					3	
018	064a018	X	xccv			05-MAR-2006 23:10	1.0					11	
019	064a019	BLANK	QC329822 S	110900	Water	05-MAR-2006 23:38	1.0						
020	064a020	BLANK	QC329951 S	110935	Soil	06-MAR-2006 00:05	1.0						
021	064a021	BLANK	QC330003 S	110946	Soil	06-MAR-2006 00:32	1.0						
022	064a022	LCS	QC329823 S	110900	Water	06-MAR-2006 00:59	1.0						
023	064a023	LCS	QC329952 S	110935	Soil	06-MAR-2006 01:27	1.0						
024	064a024	LCS	QC330004 S	110946	Soil	06-MAR-2006 01:55	1.0						
025	064a025	MS	QC329824	110900	Water	06-MAR-2006 02:22	1.0						
026	064a026	MSD	QC329825	110900	Water	06-MAR-2006 02:50	1.0						
027	064a027	MS	QC330005 S	110946	Soil	06-MAR-2006 03:17	2.0						
028	064a028	MSD	QC330006 S	110946	Soil	06-MAR-2006 03:44	2.0						
029	064a029	X	ib			06-MAR-2006 04:11	1.0						
030	064a030	CCV	dsl_250			06-MAR-2006 04:39	1.0					12	
031	064a031	CCV	mo_500			06-MAR-2006 05:06	1.0					4	

Stds used: 1=S2662 2=S2741 3=S2401 4=S2843 5=S2118 6=S2119 7=S2120 8=S2121 9=S2122 10=S2117 11=S2647 12=S2755

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SEQUENCE SUMMARY FOR 185638 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176093018 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 05-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	064a032	CCV	bunk_1250			06-MAR-2006 05:33	1.0				3	
033	064a033	X	xccv			06-MAR-2006 06:00	1.0				12	
034	064a034	SAMPLE	185049-005	110845	Water	06-MAR-2006 06:28	1.0					
035	064a035	SAMPLE	185057-001	110845	Water	06-MAR-2006 06:55	1.0					
036	064a036	SAMPLE	185021-004	110845	Water	06-MAR-2006 07:33	1.0					
037	064a037	SAMPLE	185096-003	110851	Water	06-MAR-2006 08:01	1.0					
038	064a038	?SAMPLE	185095-003	110851		06-MAR-2006 08:28	1.0					
039	064a039	MSS	185082-015 S	110946	Soil	06-MAR-2006 08:56	2.0	0.1008	5	3		
040	064a040	?MS	QC329951	110935		06-MAR-2006 09:23	2.0					
041	064a041	?MSD	QC329952	110935		06-MAR-2006 09:50	2.0					
042	064a042	MS	QC329764	110886	Soil	06-MAR-2006 10:18	5.0					
043	064a043	?MSD	QC329764	110886		06-MAR-2006 10:45	5.0					
044	064a044	X	ib			06-MAR-2006 11:12	1.0					
045	064a045	X	ib			06-MAR-2006 11:40	1.0					
046	064a046	CCV	dsl_500			06-MAR-2006 12:07	1.0				2	
047	064a047	CCV	mo_500			06-MAR-2006 12:35	1.0				4	
048	064a048	CCV	bunk_1250			06-MAR-2006 13:02	1.0				3	
049	064a049	X	xccv			06-MAR-2006 13:29	1.0				2	

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Stds used: 1=S2662 2=S2741 3=S2401 4=S2843 5=S2118 6=S2119 7=S2120 8=S2121 9=S2122 10=S2117 11=S2647 12=S2755

SEQUENCE SUMMARY FOR 185638 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176098515 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 09-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	068a001	X	ib			09-MAR-2006 09:55	1.0					
002	068a002	?SAMPLE	185382-001			09-MAR-2006 10:22	10.0					
003	068a003	?SAMPLE	185382-002			09-MAR-2006 10:49	10.0					
004	068a004	?SAMPLE	185382-003			09-MAR-2006 11:17	10.0					
005	068a005	?SAMPLE	185382-004			09-MAR-2006 11:44	10.0					
006	068a006	?SAMPLE	185382-005			09-MAR-2006 12:12	10.0					
007	068a007	X	ib			09-MAR-2006 12:39	1.0					
008	068a008	X	mb fingerpri			09-MAR-2006 13:06	1.0					
009	068a009	CCV	jet_250			09-MAR-2006 13:34	1.0				1	
010	068a010	X	ib			09-MAR-2006 16:37	1.0					
011	068a011	CCV	dsl_500			09-MAR-2006 17:05	1.0	1.0		3	2	
012	068a012	CCV	mo_500			09-MAR-2006 17:32	1.0	1.0	2	3	3	
013	068a013	CCV	bunk_1250			09-MAR-2006 18:23	1.0	1.0		3	4	
014	068a014	X	ib			09-MAR-2006 19:15	1.0					
015	068a015	ICAL	hex_5			09-MAR-2006 19:42	1.0	1.0			5	
016	068a016	ICAL	hex_10			09-MAR-2006 20:09	1.0	1.0			6	
017	068a017	ICAL	hex_25			09-MAR-2006 20:37	1.0	1.0			7	
018	068a018	ICAL	hex_50			09-MAR-2006 21:04	1.0	1.0			8	
019	068a019	ICAL	hex_75			09-MAR-2006 21:31	1.0	1.0			9	
020	068a020	X	ib			09-MAR-2006 21:59	1.0					
021	068a021	CCV	dsl_1000			09-MAR-2006 22:26	1.0	1.0		3	10	
022	068a022	CCV	mo_500			09-MAR-2006 22:53	1.0	1.0	2	3	3	
023	068a023	X	dsl_1000			09-MAR-2006 23:20	1.0				10	
024	068a024	CCV	bunk_1250			09-MAR-2006 23:48	1.0	1.0		3	4	
025	068a025	SAMPLE	185247-003 S	111034	Water	10-MAR-2006 00:15	1.0	0.005		3		
026	068a026	SAMPLE	185271-008 S	111034	Water	10-MAR-2006 00:42	1.0	0.005		3		
027	068a027	SAMPLE	185334-001 S	111055	Water	10-MAR-2006 01:10	1.0	0.005		3		
028	068a028	SAMPLE	185271-009 S	111034	Water	10-MAR-2006 01:37	1.0	0.005		3		
029	068a029	SAMPLE	185271-010 S	111034	Water	10-MAR-2006 02:04	1.0	0.005		3		
030	068a030	SAMPLE	185350-001 S	111055	Water	10-MAR-2006 02:31	1.0	0.005		3		
031	068a031	SAMPLE	185333-014 S	111062	Soil	10-MAR-2006 02:58	1.0	0.1000		3		

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Stds used: 1=S2432 2=S2871 3=S2741 4=S2872 5=S2694 6=S2695 7=S2696 8=S2697 9=S2698 10=S2885 11=S2755 12=S2843

SEQUENCE SUMMARY FOR 185638 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176098515 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 09-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used >LR
032	068a032	SAMPLE	185247-005 S	111034	Water	10-MAR-2006 03:25	1.0	0.005	2	1	3	17:BUNKC:=50672.4
033	068a033	MS	QC330414 S	111050	Soil	10-MAR-2006 03:52	1.0	0.1009		1	3	3:BUNKC:=7224.34
034	068a034	MSD	QC330415 S	111050	Soil	10-MAR-2006 04:20	1.0	0.1001			3	1:BUNKC:=5003.11
035	068a035	CCV	dsl_250			10-MAR-2006 04:47	1.0	1.0			3	11
036	068a036	CCV	mo_500			10-MAR-2006 05:14	1.0	1.0	2		3	3
037	068a037	X	xccv			10-MAR-2006 05:42	1.0					11
038	068a038	CCV	bunk_1250			10-MAR-2006 06:09	1.0	1.0			3	4
039	068a039	SAMPLE	185333-022 S	111062	Soil	10-MAR-2006 06:36	1.0	0.1006			3	
040	068a040	SAMPLE	185333-023 S	111062	Soil	10-MAR-2006 07:03	1.0	0.1004			3	
041	068a041	SAMPLE	185211-001	111002	Water	10-MAR-2006 07:30	1.0	0.005			3	
042	068a042	SAMPLE	185211-002	111002	Water	10-MAR-2006 07:58	1.0	0.005			3	
043	068a043	SAMPLE	185229-030	111002	Water	10-MAR-2006 08:24	1.0	0.005		1	3	
044	068a044	SAMPLE	185229-031	111002	Water	10-MAR-2006 08:52	1.0	0.005			3	
045	068a045	SAMPLE	185229-033	111002	Water	10-MAR-2006 09:19	1.0	0.005			3	
046	068a046	SAMPLE	185279-001	111034	Water	10-MAR-2006 09:46	1.0	0.005	1		3	1:HXCS=104.673620
047	068a047	SAMPLE	185339-001	111055	Water	10-MAR-2006 10:13	1.0	0.005			3	
048	068a048	SAMPLE	185339-002	111055	Water	10-MAR-2006 10:40	5.0	0.005			3	
049	068a049	CCV	dsl_500			10-MAR-2006 11:08	1.0	1.0			3	2
050	068a050	CCV	mo_500			10-MAR-2006 11:36	1.0	1.0	2		3	12
051	068a051	X	dsl_500			10-MAR-2006 12:03	1.0					2
052	068a052	CCV	bunk_1250			10-MAR-2006 12:30	1.0	1.0			3	4

Stds used: 1=S2432 2=S2871 3=S2741 4=S2872 5=S2694 6=S2695 7=S2696 8=S2697 9=S2698 10=S2885 11=S2755 12=S2843

SEQUENCE SUMMARY FOR 185638 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166114247 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	079b001	X	primer			20-MAR-2006 08:07	1.0						
002	079b002	X	ib			20-MAR-2006 08:34	1.0						
003	079b003	CCV	dsl_500			20-MAR-2006 09:02	1.0	1.0			3	1	
004	079b004	CCV	mo_500			20-MAR-2006 11:26	1.0					2	
005	079b005	CCV	dsl_500			20-MAR-2006 11:53	1.0					1	
006	079b006	X	ib			20-MAR-2006 14:24	1.0						
007	079b007	ICAL	hex_5			20-MAR-2006 14:52	1.0	1.0				3	
008	079b008	ICAL	hex_10			20-MAR-2006 15:20	1.0	1.0				4	
009	079b009	ICAL	hex_25			20-MAR-2006 15:49	1.0	1.0				5	
010	079b010	ICAL	hex_50			20-MAR-2006 16:17	1.0	1.0				6	
011	079b011	ICAL	hex_75			20-MAR-2006 16:45	1.0	1.0				7	
012	079b012	CCV	dsl_1000			20-MAR-2006 17:14	1.0	1.0			3	8	
013	079b013	CCV	mo_500			20-MAR-2006 17:42	1.0	1.0			3	2	
014	079b014	SAMPLE	185385-001 S	111346	Water	20-MAR-2006 18:23	1.0	0.005			3		
015	079b015	SAMPLE	185385-002 S	111346	Water	20-MAR-2006 18:52	1.0	0.005			3		
016	079b016	SAMPLE	185385-003 S	111346	Water	20-MAR-2006 19:20	1.0	0.005			3		
017	079b017	SAMPLE	185385-004 S	111346	Water	20-MAR-2006 19:48	1.0	0.005			3		
018	079b018	SAMPLE	185385-005 S	111346	Water	20-MAR-2006 20:16	1.0	0.005			3		
019	079b019	X	ib			20-MAR-2006 20:45	1.0						
020	079b020	SAMPLE	185385-006 S	111346	Water	20-MAR-2006 21:13	1.0	0.005			3		
021	079b021	SAMPLE	185385-007 S	111346	Water	20-MAR-2006 21:41	1.0	0.005			3		
022	079b022	SAMPLE	185385-008 S	111346	Water	20-MAR-2006 22:09	1.0	0.005			3		
023	079b023	SAMPLE	185385-009 S	111346	Water	20-MAR-2006 22:37	1.0	0.005			3		
024	079b024	SAMPLE	185385-011 S	111346	Water	20-MAR-2006 23:05	1.0	0.005			3		
025	079b025	X	ib			20-MAR-2006 23:33	1.0						
026	079b026	X	ib			21-MAR-2006 00:01	1.0						
027	079b027	CCV	dsl_250			21-MAR-2006 00:29	1.0	1.0			3	9	
028	079b028	CCV	mo_500			21-MAR-2006 00:57	1.0	1.0	3		3	2	
029	079b029	X	ccv			21-MAR-2006 01:25	1.0					2	
030	079b030	X	ccv			21-MAR-2006 01:52	1.0					9	
031	079b031	SAMPLE	185414-001 S	111437	Water	21-MAR-2006 02:20	1.0	0.005			3		

Stds used: 1=S2871 2=S2843 3=S2694 4=S2695 5=S2696 6=S2697 7=S2698 8=S2885 9=S2755

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SEQUENCE SUMMARY FOR 185638 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166114247 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	079b032	SAMPLE	185525-004 S	111348	Water	21-MAR-2006 02:48	1.0	0.005		3		
033	079b033	SAMPLE	185525-001 S	111348	Water	21-MAR-2006 03:15	1.0	0.005		3		
034	079b034	SAMPLE	185525-005 S	111348	Water	21-MAR-2006 03:43	1.0	0.005		3		
035	079b035	SAMPLE	185525-008 S	111348	Water	21-MAR-2006 04:11	1.0	0.005		3		
036	079b036	SAMPLE	185525-011 S	111348	Water	21-MAR-2006 04:38	1.0	0.005		3		
037	079b037	SAMPLE	185525-007 S	111348	Water	21-MAR-2006 05:06	1.0	0.005		3		
038	079b038	SAMPLE	185525-010 S	111348	Water	21-MAR-2006 05:34	1.0	0.005		3		
039	079b039	SAMPLE	185525-012 S	111348	Water	21-MAR-2006 06:02	1.0	0.005		3		
040	079b040	X	ib			21-MAR-2006 06:30	1.0					
041	079b041	CCV	dsl_1000			21-MAR-2006 06:57	1.0	1.0	7	3	8	
042	079b042	CCV	mo_500			21-MAR-2006 07:25	1.0	1.0	4	3	2	
043	079b043	X	ccv			21-MAR-2006 07:53	1.0				2	
044	079b044	X	ccv			21-MAR-2006 08:20	1.0				8	

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Stds used: 1=S2871 2=S2843 3=S2694 4=S2695 5=S2696 6=S2697 7=S2698 8=S2885 9=S2755

SEQUENCE SUMMARY FOR 185638 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166115824 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 21-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	080b001	ICAL	dsl_10			21-MAR-2006 10:24	1.0					1	
002	080b002	X	ib			21-MAR-2006 11:50	1.0						
003	080b003	CCV	dsl_500			21-MAR-2006 12:18	1.0	1.0			3	2	
004	080b004	CCV	mo_500			21-MAR-2006 12:46	1.0	1.0	2		3	3	
005	080b005	X	ib			21-MAR-2006 14:24	1.0						
006	080b006	ICAL	mo_50			21-MAR-2006 14:52	1.0	1.0				4	
007	080b007	ICAL	mo_250			21-MAR-2006 15:20	1.0	1.0				5	
008	080b008	ICAL	mo_500			21-MAR-2006 15:49	1.0	1.0				6	
009	080b009	ICAL	mo_1000			21-MAR-2006 16:17	1.0	1.0				7	
010	080b010	ICAL	mo_2500			21-MAR-2006 16:46	1.0	1.0				8	
011	080b011	ICAL	mo_5000			21-MAR-2006 17:15	1.0	1.0				9	
012	080b012	X	ib			21-MAR-2006 17:52	1.0						
013	080b013	CCV	dsl_1000			21-MAR-2006 18:21	1.0	1.0			3	10	
014	080b014	X	mo_500			21-MAR-2006 18:49	1.0	1.0	3		3	3	
015	080b015	CCV	mo_500			21-MAR-2006 19:27	1.0	1.0	2		3	11	
016	080b016	SAMPLE	185580-002	111477	Water	21-MAR-2006 21:34	1.0	0.005			3		
017	080b017	SAMPLE	185580-010	111477	Water	21-MAR-2006 22:02	1.0	0.005			3		
018	080b018	SAMPLE	185457-011 S	111478	Water	21-MAR-2006 22:30	1.0	0.005			3		
019	080b019	SAMPLE	185457-012 S	111478	Water	21-MAR-2006 22:58	1.0	0.005			3		
020	080b020	SAMPLE	185457-013 S	111478	Water	21-MAR-2006 23:26	1.0	0.005			3		
021	080b021	SAMPLE	185457-014 S	111478	Water	21-MAR-2006 23:54	1.0	0.005			3		
022	080b022	MSS	185457-016 S	111478	Water	22-MAR-2006 00:22	1.0	0.005	8		3		
023	080b023	SAMPLE	185457-017 S	111478	Water	22-MAR-2006 00:50	1.0	0.005			3		
024	080b024	SAMPLE	185457-019 S	111478	Water	22-MAR-2006 01:18	1.0	0.005			3		
025	080b025	MSS	185457-020 S	111478	Water	22-MAR-2006 01:46	1.0	0.005	8		3		
026	080b026	X	ib			22-MAR-2006 02:14	1.0						
027	080b027	CCV	dsl_250			22-MAR-2006 02:41	1.0	1.0			3	12	
028	080b028	CCV	mo_500			22-MAR-2006 03:09	1.0	1.0	2		3	13	
029	080b029	X	ccv			22-MAR-2006 03:37	1.0					12	
030	080b030	X	ccv			22-MAR-2006 04:05	1.0					13	

Stds used: 1=S2964 2=S2871 3=S2843 4=S2118 5=S2119 6=S2120 7=S2121 8=S2122 9=S2117 10=S2885 11=S2972 12=S2755 13=S2971

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SEQUENCE SUMMARY FOR 185638 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166117087 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	081b001	X	primer			22-MAR-2006 07:27	1.0					
002	081b002	X	ib			22-MAR-2006 07:55	1.0					
003	081b003	CCV	dsl_500			22-MAR-2006 08:27	1.0	1.0	6	3	1	
004	081b004	CCV	mo_500			22-MAR-2006 08:55	1.0	1.0	2	3	2	
005	081b005	X	ib			22-MAR-2006 12:12	1.0					
006	081b006	ICAL	dsl_10			22-MAR-2006 12:39	1.0	1.0			3	
007	081b007	ICAL	dsl_100			22-MAR-2006 13:07	1.0	1.0			4	
008	081b008	ICAL	dsl_250			22-MAR-2006 13:34	1.0	1.0			5	
009	081b009	ICAL	dsl_500			22-MAR-2006 14:02	1.0	1.0			6	
010	081b010	ICAL	dsl_1000			22-MAR-2006 14:30	1.0	1.0			7	
011	081b011	ICAL	dsl_2500			22-MAR-2006 14:57	1.0	1.0			8	
012	081b012	ICAL	dsl_5000			22-MAR-2006 15:25	1.0	1.0			9	
013	081b013	X	ib			22-MAR-2006 15:53	1.0					
014	081b014	ICV	dsl_500			22-MAR-2006 16:21	1.0	1.0		3	10	
015	081b015	X	ib			22-MAR-2006 16:49	1.0					
016	081b016	CCV	dsl_500			22-MAR-2006 17:17	1.0	1.0		3	1	
017	081b017	CCV	mo_500			22-MAR-2006 17:45	1.0	1.0	2	3	2	
018	081b018	CCV	ker_250			22-MAR-2006 18:43	1.0	1.0		3	11	
019	081b019	LCS	QC332247 S	111483	Soil	22-MAR-2006 19:18	1.0	0.09921		3		
020	081b020	BLANK	QC332246 S	111483	Soil	22-MAR-2006 19:45	1.0	0.1007	7	3		
021	081b021	MSS	185620-003 S	111483	Soil	22-MAR-2006 20:13	1.0	0.1001	9	3		
022	081b022	MS	QC332248 S	111483	Soil	22-MAR-2006 20:41	1.0	0.1006		3		
023	081b023	MSD	QC332249 S	111483	Soil	22-MAR-2006 21:09	1.0	0.1004		3		
024	081b024	X	ib			22-MAR-2006 21:37	1.0					
025	081b025	SAMPLE	185463-003 S	111513	Water	22-MAR-2006 22:05	1.0	0.005		3		
026	081b026	SAMPLE	185463-004 S	111513	Water	22-MAR-2006 22:33	1.0	0.005		3		
027	081b027	SAMPLE	185639-002	111483	Soil	22-MAR-2006 23:01	1.0	0.1002		3		
028	081b028	SAMPLE	185640-001	111483	Soil	22-MAR-2006 23:29	3.0	0.09974	3	3		19:BUNKC:=35667.6
029	081b029	SAMPLE	185640-002	111483	Soil	22-MAR-2006 23:57	20.0	0.2001	2	3		12:BUNKC:=30917.1
030	081b030	X	ib			23-MAR-2006 00:24	1.0					
031	081b031	CCV	dsl_1000			23-MAR-2006 00:52	1.0	1.0		3	12	

Stds used: 1=S2871 2=S2971 3=S2961 4=S2938 5=S2939 6=S2940 7=S2941 8=S2942 9=S2936 10=S2708 11=S2806 12=S2885

SEQUENCE SUMMARY FOR 185638 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166117087 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	081b032	CCV	mo_500			23-MAR-2006 01:20	1.0	1.0	2		3	2	
033	081b033	X	ccv			23-MAR-2006 01:48	1.0					12	
034	081b034	CCV	ker_250			23-MAR-2006 02:16	1.0	1.0			3	11	

Stds used: 1=S2871 2=S2971 3=S2961 4=S2938 5=S2939 6=S2940 7=S2941 8=S2942 9=S2936 10=S2708 11=S2806 12=S2885

SEQUENCE SUMMARY FOR 185638 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166123373 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 26-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	085b001	X	primer			26-MAR-2006 16:13	1.0					
002	085b002	X	ib			26-MAR-2006 16:41	1.0					
003	085b003	CCV	dsl_500			26-MAR-2006 17:08	1.0	1.0		3	1	
004	085b004	CCV	mo_500			26-MAR-2006 17:35	1.0	1.0	2	3	2	
005	085b005	SAMPLE	185558-001 S	111662	Water	26-MAR-2006 18:35	1.0	0.005		3		
006	085b006	SAMPLE	185558-002 S	111662	Water	26-MAR-2006 19:03	1.0	0.005		3		
007	085b007	SAMPLE	185558-003 S	111662	Water	26-MAR-2006 19:31	1.0	0.005		3		
008	085b008	SAMPLE	185558-004 S	111662	Water	26-MAR-2006 19:58	1.0	0.005		3		
009	085b009	SAMPLE	185558-005 S	111662	Water	26-MAR-2006 20:26	1.0	0.005		3		
010	085b010	SAMPLE	185558-006 S	111662	Water	26-MAR-2006 20:54	1.0	0.005		3		
011	085b011	SAMPLE	185558-007 S	111662	Water	26-MAR-2006 21:22	1.0	0.005		3		
012	085b012	SAMPLE	185558-008 S	111662	Water	26-MAR-2006 21:50	1.0	0.005		3		
013	085b013	SAMPLE	185558-009 S	111662	Water	26-MAR-2006 22:18	1.0	0.005		3		
014	085b014	SAMPLE	185558-011 S	111662	Water	26-MAR-2006 22:46	1.0	0.005		3		
015	085b015	X	ib			26-MAR-2006 23:14	1.0					
016	085b016	CCV	dsl_1000			26-MAR-2006 23:41	1.0	1.0		3	3	
017	085b017	CCV	mo_500			27-MAR-2006 00:09	1.0	1.0	2	3	2	
018	085b018	X	ccv			27-MAR-2006 00:37	1.0				3	
019	085b019	SAMPLE	185562-003 S	111685	Water	27-MAR-2006 01:05	1.0	0.005		3		
020	085b020	SAMPLE	185558-022 S	111685	Water	27-MAR-2006 01:33	1.0	0.005		3		
021	085b021	SAMPLE	185558-023 S	111685	Water	27-MAR-2006 02:01	1.0	0.005		3		
022	085b022	SAMPLE	185558-024 S	111685	Water	27-MAR-2006 02:28	1.0	0.005		3		
023	085b023	SAMPLE	185558-025 S	111685	Water	27-MAR-2006 02:56	1.0	0.005		3		
024	085b024	SAMPLE	185558-026 S	111685	Water	27-MAR-2006 03:24	1.0	0.005		3		
025	085b025	SAMPLE	185558-027 S	111685	Water	27-MAR-2006 03:51	1.0	0.005		3		
026	085b026	SAMPLE	185695-001	111632	Soil	27-MAR-2006 04:19	2.0	0.1003		3		1:BUNKC:=5098.84
027	085b027	SAMPLE	185695-002	111632	Soil	27-MAR-2006 04:47	3.0	0.0999		3		1:BUNKC:=6432.21
028	085b028	SAMPLE	185695-003	111632	Soil	27-MAR-2006 05:14	10.0	0.09988		3		3:BUNKC:=11311.3
029	085b029	X	ib			27-MAR-2006 05:42	1.0					
030	085b030	CCV	dsl_500			27-MAR-2006 06:09	1.0	1.0		3	1	

Stds used: 1=S2871 2=S2971 3=S2885 4=S2755
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 185638 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166123373 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 26-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
031	085b031	CCV	mo_500			27-MAR-2006 06:37	1.0	1.0	2		3	2	
032	085b032	X	ccv			27-MAR-2006 07:05	1.0					1	
033	085b033	BS	QC333045 S	111684	Water	27-MAR-2006 07:57	1.0	0.005			3		
034	085b034	BSD	QC333046 S	111684	Water	27-MAR-2006 08:25	1.0	0.005			3		
035	085b035	BLANK	QC333044 S	111684	Water	27-MAR-2006 08:53	1.0	0.005	8		3		
036	085b036	SAMPLE	185672-001 S	111684	Water	27-MAR-2006 09:21	1.0	0.005	2		3	sh	
037	085b037	SAMPLE	185672-002 S	111684	Water	27-MAR-2006 09:49	1.0	0.005	2		3	sh	
038	085b038	SAMPLE	185672-003 S	111684	Water	27-MAR-2006 10:16	1.0	0.005	2		3	sh	
039	085b039	SAMPLE	185672-004 S	111684	Water	27-MAR-2006 10:44	1.0	0.005	2		3	sh	
040	085b040	X	ib			27-MAR-2006 11:12	1.0						
041	085b041	CCV	dsl_1000			27-MAR-2006 11:41	1.0	1.0			3	3	
042	085b042	CCV	mo_500			27-MAR-2006 12:08	1.0	1.0	2		3	2	
043	085b043	SAMPLE	185749-001	111632	Soil	27-MAR-2006 12:43	5.0	0.09905	1		3		1:BUNKC:=7070.75
044	085b044	X	ib			27-MAR-2006 14:21	1.0						
045	085b045	LCS	QC333051 S	111686	Water	27-MAR-2006 14:49	1.0	0.005			3		
046	085b046	BLANK	QC333050 S	111686	Water	27-MAR-2006 15:16	1.0	0.005	8		3		
047	085b047	MS	QC333052 S	111686	Water	27-MAR-2006 15:44	1.0	0.005			3		
048	085b048	MSD	QC333053 S	111686	Water	27-MAR-2006 16:12	1.0	0.005			3		
049	085b049	MSS	185586-015 S	111686	Water	27-MAR-2006 16:54	1.0	0.005	8		3		
050	085b050	SAMPLE	185586-016 S	111686	Water	27-MAR-2006 17:22	1.0	0.005			3		
051	085b051	SAMPLE	185586-017 S	111686	Water	27-MAR-2006 17:49	1.0	0.005			3		
052	085b052	SAMPLE	185586-018 S	111686	Water	27-MAR-2006 18:17	1.0	0.005			3		
053	085b053	SAMPLE	185586-019 S	111686	Water	27-MAR-2006 18:45	1.0	0.005			3		
054	085b054	CCV	dsl_250			27-MAR-2006 19:12	1.0	1.0			3	4	
055	085b055	CCV	mo_500			27-MAR-2006 19:40	1.0	1.0	2		3	2	
056	085b056	SAMPLE	185586-008 S	111685	Water	27-MAR-2006 20:11	1.0	0.005			3		
057	085b057	SAMPLE	185586-009 S	111685	Water	27-MAR-2006 20:39	1.0	0.005			3		
058	085b058	SAMPLE	185586-010 S	111685	Water	27-MAR-2006 21:06	1.0	0.005			3		
059	085b059	SAMPLE	185586-011 S	111685	Water	27-MAR-2006 21:34	1.0	0.005			3		
060	085b060	X	ib			27-MAR-2006 22:02	1.0						

Stds used: 1=S2871 2=S2971 3=S2885 4=S2755
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 185638 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166123373 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 26-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
061	085b061	BS	QC333085 S	111695	Water	27-MAR-2006 22:30	1.0	0.005		3		
062	085b062	BSD	QC333086 S	111695	Water	27-MAR-2006 22:58	1.0	0.005		3		
063	085b063	BLANK	QC333084 S	111695	Water	27-MAR-2006 23:25	1.0	0.005		3		
064	085b064	SAMPLE	185602-016	111695	Water	27-MAR-2006 23:53	1.0	0.005		3		
065	085b065	SAMPLE	185602-020	111695	Water	28-MAR-2006 00:21	1.0	0.005		3		
066	085b066	SAMPLE	185602-024	111695	Water	28-MAR-2006 00:49	1.0	0.005		3		
067	085b067	X	dsl_250			28-MAR-2006 01:17	1.0	1.0	7	3	4	
068	085b068	CCV	mo_500			28-MAR-2006 01:45	1.0	1.0	2	3	2	
069	085b069	CCV	dsl_250			28-MAR-2006 02:13	1.0	1.0		3	4	
070	085b070	X	ccv			28-MAR-2006 02:41	1.0				2	
071	085b071	BS	QC333082 S	111694	Water	28-MAR-2006 03:09	1.0	0.005		3		
072	085b072	BSD	QC333083 S	111694	Water	28-MAR-2006 03:37	1.0	0.005		3		
073	085b073	BLANK	QC333081 S	111694	Water	28-MAR-2006 04:05	1.0	0.005	8	3		
074	085b074	SAMPLE	185602-028	111695	Water	28-MAR-2006 04:33	1.0	0.005		3		
075	085b075	SAMPLE	185703-001 S	111694	Water	28-MAR-2006 05:01	1.0	0.005		3		
076	085b076	SAMPLE	185703-002 S	111694	Water	28-MAR-2006 05:29	1.0	0.005		3		
077	085b077	SAMPLE	185703-003 S	111694	Water	28-MAR-2006 05:57	1.0	0.005		3		
078	085b078	X	ib			28-MAR-2006 06:25	1.0					
079	085b079	CCV	dsl_500			28-MAR-2006 06:53	1.0	1.0		3	1	
080	085b080	CCV	mo_500			28-MAR-2006 07:21	1.0	1.0	2	3	2	
081	085b081	X	ccv			28-MAR-2006 07:49	1.0				1	
082	085b082	X	ccv			28-MAR-2006 08:17	1.0				2	
083	085b083	MSS	185761-001 S	111718	Soil	28-MAR-2006 09:13	1.0	0.1003	10	3		
084	085b084	CCV	dsl_1000			28-MAR-2006 10:27	1.0	1.0		3	3	
085	085b085	CCV	mo_500			28-MAR-2006 10:54	1.0	1.0	2	3	2	
086	085b086	X	tc			28-MAR-2006 13:35	1.0					
087	085b087	X	tc			28-MAR-2006 14:02	1.0					
088	085b088	X	tc			28-MAR-2006 14:30	1.0					

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Stds used: 1=S2871 2=S2971 3=S2885 4=S2755
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 185638 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176126174 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 28-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	087a001	X	Primer			28-MAR-2006 14:54	1.0					
002	087a002	X	ib			28-MAR-2006 15:21	1.0					
003	087a003	CCV	mo_500			28-MAR-2006 15:49	1.0	1.0		3	1	
004	087a004	CCV	dsl_250			28-MAR-2006 16:16	1.0	1.0		3	2	
005	087a005	SAMPLE	185797-001 S	111718	Soil	28-MAR-2006 17:10	1.0	0.0999		3		
006	087a006	SAMPLE	185797-002 S	111718	Soil	28-MAR-2006 17:38	1.0	0.09982		3		
007	087a007	SAMPLE	185622-030 S	111695	Water	28-MAR-2006 18:05	1.0	0.005		3		
008	087a008	SAMPLE	185622-036 S	111695	Water	28-MAR-2006 18:33	1.0	0.005		3		
009	087a009	SAMPLE	185622-037 S	111695	Water	28-MAR-2006 19:00	1.0	0.005		3		
010	087a010	SAMPLE	185745-010	111632	Soil	28-MAR-2006 19:27	5.0	0.1006		3		
011	087a011	X	ib			28-MAR-2006 19:54	1.0					
012	087a012	SAMPLE	185638-001 S	111695	Water	28-MAR-2006 20:22	1.0	0.005		3		
013	087a013	SAMPLE	185638-002 S	111695	Water	28-MAR-2006 20:49	1.0	0.005		3		
014	087a014	SAMPLE	185638-003 S	111695	Water	28-MAR-2006 21:16	1.0	0.005		3		
015	087a015	SAMPLE	185745-006	111632	Soil	28-MAR-2006 21:44	1.0	0.09964		3		82
016	087a016	X	ib			28-MAR-2006 22:11	1.0					
017	087a017	CCV	mo_500			28-MAR-2006 22:39	1.0	1.0		3	1	
018	087a018	CCV	dsl_500			28-MAR-2006 23:06	1.0	1.0		3	3	
019	087a019	X	ccv			28-MAR-2006 23:33	1.0				1	
020	087a020	X	ccv			29-MAR-2006 00:01	1.0				3	
021	087a021	SAMPLE	185622-025 S	111728	Water	29-MAR-2006 00:28	1.0	0.005		3		
022	087a022	SAMPLE	185622-026 S	111728	Water	29-MAR-2006 00:55	1.0	0.005		3		
023	087a023	SAMPLE	185622-027 S	111728	Water	29-MAR-2006 01:23	1.0	0.005		3		
024	087a024	SAMPLE	185622-029 S	111728	Water	29-MAR-2006 01:50	1.0	0.005		3		
025	087a025	SAMPLE	185622-031 S	111728	Water	29-MAR-2006 02:18	1.0	0.005		3		
026	087a026	SAMPLE	185751-001	111728	Water	29-MAR-2006 02:45	3.0	0.005		3		
027	087a027	X	ib			29-MAR-2006 03:12	1.0					
028	087a028	CCV	mo_500			29-MAR-2006 03:39	1.0	1.0	2	3	1	
029	087a029	CCV	dsl_250			29-MAR-2006 04:06	1.0	1.0		3	2	
030	087a030	X	ccv			29-MAR-2006 04:33	1.0				1	
031	087a031	X	ccv			29-MAR-2006 05:01	1.0				2	

Stds used: 1=S2971 2=S2755 3=S2871

SEQUENCE SUMMARY FOR 185638 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116127194 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 29-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	088a001	X	primer			29-MAR-2006 07:54	1.0						
002	088a002	X	ib			29-MAR-2006 08:22	1.0						
003	088a003	CCV	mo_500			29-MAR-2006 08:50	1.0	1.0			3	1	
004	088a004	CCV	dsl_500			29-MAR-2006 09:18	1.0	1.0			3	2	
005	088a005	SAMPLE	185622-021 S	111728	Water	29-MAR-2006 10:12	1.0	0.005		1	3		
006	088a006	SAMPLE	185638-004 S	111695	Water	29-MAR-2006 10:40	1.0	0.005			3		
007	088a007	SAMPLE	185638-005 S	111695	Water	29-MAR-2006 11:08	1.0	0.005			3		
008	088a008	SAMPLE	185829-001	111785	Water	29-MAR-2006 11:36	1.0	0.005			3		
009	088a009	SAMPLE	185829-002	111785	Water	29-MAR-2006 12:04	1.0	0.005		1	3		
010	088a010	SAMPLE	185829-003	111785	Water	29-MAR-2006 12:32	1.0	0.005			3		
011	088a011	SAMPLE	185638-007 S	111695	Water	29-MAR-2006 13:00	1.0	0.005			3		
012	088a012	SAMPLE	185638-006 S	111695	Water	29-MAR-2006 13:28	1.0	0.005			3		
013	088a013	SAMPLE	185622-021 S	111728	Water	29-MAR-2006 13:56	1.0	0.005			3		
014	088a014	CCV	mo_500			29-MAR-2006 14:25	1.0	1.0			3	1	
015	088a015	CCV	dsl_1000			29-MAR-2006 14:53	1.0	1.0			3	3	
016	088a016	SAMPLE	185645-001 S	111782	Water	29-MAR-2006 16:01	1.0	0.005			3		
017	088a017	SAMPLE	185645-005 S	111782	Water	29-MAR-2006 16:28	1.0	0.005			3		
018	088a018	SAMPLE	185645-004 S	111782	Water	29-MAR-2006 16:56	1.0	0.005			3		
019	088a019	SAMPLE	185645-003 S	111782	Water	29-MAR-2006 17:24	1.0	0.005			3		
020	088a020	SAMPLE	185645-002 S	111782	Water	29-MAR-2006 17:52	1.0	0.005	1		3		14:JP8:10=32715.3
021	088a021	X	ib			29-MAR-2006 18:20	1.0						
022	088a022	SAMPLE	185761-002 S	111718	Soil	29-MAR-2006 18:48	1.0	0.09907			3		
023	088a023	SAMPLE	185761-003 S	111718	Soil	29-MAR-2006 19:16	1.0	0.1005		1	3		
024	088a024	SAMPLE	185681-004 S	111632	Miscel	29-MAR-2006 19:44	20.0	0.1007			3		2:BUNKC:=5678.94
025	088a025	SAMPLE	185644-001	111782	Water	29-MAR-2006 20:12	3.0	0.005208			3		
026	088a026	SAMPLE	185648-001	111782	Water	29-MAR-2006 20:40	2.0	0.005			3		
027	088a027	X	ib			29-MAR-2006 21:07	1.0						
028	088a028	CCV	mo_500			29-MAR-2006 21:35	1.0	1.0	1		3	1	
029	088a029	CCV	dsl_250			29-MAR-2006 22:03	1.0	1.0			3	4	
030	088a030	CCV	mo_500			29-MAR-2006 22:31	1.0					1	
031	088a031	X	ccv			29-MAR-2006 22:59	1.0					4	

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Stds used: 1=S2971 2=S2871 3=S2885 4=S2755

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185638 TEHM Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	MO:2	HXCS	
185638-001	GC17A	03/28/06 20:22	1.0	+	+	+	
185638-002	GC17A	03/28/06 20:49	1.0	+	+	+	
185638-003	GC17A	03/28/06 21:16	1.0	+	+	+	
185638-004	GC15B	03/28/06 17:16	1.0				
185638-004	GC11A	03/29/06 10:40	1.0	+	+	+	
185638-005	GC15B	03/28/06 17:43	1.0				
185638-005	GC11A	03/29/06 11:08	1.0	+	+	+	
185638-006	GC15B	03/28/06 18:11	1.0				
185638-006	GC11A	03/29/06 13:28	1.0	+	+	+	
185638-007	GC15B	03/28/06 18:39	1.0				
185638-007	GC11A	03/29/06 13:00	1.0	+	+	+	
QC333084	GC15B	03/27/06 23:25	1.0	+	+	+	
QC333085	GC15B	03/27/06 22:30	1.0	+		+	
QC333086	GC15B	03/27/06 22:58	1.0	+		+	

Curtis & Tompkins Laboratories **Sample Preparation Summary** **27-MAR-2006 19:52**

Batch Number : 111695
Date Extracted: 26-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : N/A
Bgroup : TEH
Units : mL
Clean-up :

Spike #1 ID : S2903E
Spike #2 ID : S2826A
Spike #3 ID :
SOP Version : TEH50LL_rv10

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185602-016		Geologica	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM		
185602-020		Geologica	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM		
185602-024		Geologica	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM		
185602-028		Geologica	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM		
185622-030		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEH	3630C	
185622-036		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEH	3630C	
185622-037		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEH	3630C	
185638-001		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185638-002		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185638-003		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185638-004		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185638-005		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185638-006		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185638-007		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
QC333084	BLANK		Water	500	mL	2.5	0.005000	1		.5	0		TEH	3630C	
QC333085	BS		Water	500	mL	2.5	0.005000	1		.5	.5		TEH	3630C	
QC333086	BSD		Water	500	mL	2.5	0.005000	1		.5	.5		TEH	3630C	

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Prep Chemist: Jessie Mee Reviewed By: [illegible] Date: 3/27/06

Relinquished By: [illegible] Received By: MSB Date: 3/28/06

Curtis & Tompkins, Ltd

TEH WATER PREP LOG

BK2279

LIMS Batch No: 111695
LIMS Analysis: TEH/M
Extracted by: JDM
Date Extracted: 26 Mar 06

Extraction Method:
☐ mod. EPA 3510 sep. funnel
☒ mod. EPA 3520 cont. L/L
☐ _____

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Cleanup Method (if needed):
☒ EPA 3630 Silica Gel
☐ Other _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185602-016 E	500	7	2.5		
20					
24					
28					
185622-030 L				X	
36 L					
37 K					
185638-001 E		6			
02					
03					
04					
05 I					
06 E					
07 H		7			
MB QC333084		NA			
BS 85					
BSD 86					

KMH 3/27/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.5 mL of TEH_SURR was added to all samples	S4135E	JDM 3/2
0.5 mL of TEH_SP was added to all spikes	S2026A	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	JTB24063	
☒ Samples were continually extracted about 450 mL of CH_2Cl_2	EM4060	
Extraction Start Time:	1630	
Extraction End Time:	1130	JDM 3/2
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	KMH 3/27/06
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM45118532	
Concentrated to volumes as noted above	✓	✓

Jessica Theo 3/26/06
Extraction Chemist Date

Contined from Page —
Continued on Page —

Kat 3/27/06
Reviewed by Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: KMH
Cleanup Date: 3/27/06

Benchbook # **BK 2297**
Page 6

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
185622-086	111695	1.0	1.0	
37				
185638-001				
2				
3				
4				
5				
6				
7				
MBQC 333084				
BS 5				
BSD 6				
				KMH 3/27/06

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ____ g columns	NA	KMH 3/27/06
☒ Extracts were cleaned up using 1.0 g cartridges	SP 7028	
Extracts were eluted with 4.0 mL CH_2Cl_2	EM 46060	
Concentrated to volumes as noted above	✓	✓

3/27/06
Extraction Chemist / Date

Continued from page ____
Continued on page ____

3/27/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water
As of 04/08/06

Analyte	Units	GC11A	GC13B	GC15B	GC17A
JP-5 C10-C16	ug/L	17	16	7.9	5.4
Jet Fuel A C10-C16	ug/L	14	30	24	33
Diesel C10-C20	ug/L		16	13	19
Diesel C10-C22	ug/L	21	18	19	27
Diesel C10-C28	ug/L	18	11	22	37
Diesel C10-C24	ug/L	21	15	18	33
Diesel C12-C24	ug/L	20	13	20	33
Diesel C12-C32	ug/L	22	14	25	23
Diesel C12-C36	ug/L	13	17		
Diesel C12-C28	ug/L		31		
Diesel C12-C22	ug/L	19	17	20	25
Motor Oil C20-C36	ug/L	40	50	29	53
Motor Oil C28-C36	ug/L	42	55	33	76
Motor Oil C24-C36	ug/L	42	55	33	76
Motor Oil C22-C32	ug/L	36	51	21	50
Motor Oil C22-C36	ug/L	41	52	30	51
Hexacosane	ug/L	4.5	3.4	4.2	3.1

VOLATILE ORGANIC COMPOUNDS

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185638	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	1213GW101	Batch#:	111543
Lab ID:	185638-005	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	8.9	0.5	
Benzene	1.5	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	105	76-114
Toluene-d8	98	88-110
Bromofluorobenzene	106	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185638	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DUP0317062A	Batch#:	111543
Lab ID:	185638-007	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	5.8	0.5	
Benzene	0.8	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	105	76-114
Toluene-d8	97	88-110
Bromofluorobenzene	110	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185638	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	TB0317062A	Batch#:	111543
Lab ID:	185638-008	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	105	76-114
Toluene-d8	97	88-110
Bromofluorobenzene	106	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185638	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332467	Batch#:	111543
Matrix:	Water	Analyzed:	03/22/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	103	76-114
Toluene-d8	97	88-110
Bromofluorobenzene	107	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185638	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	111543
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Type: BS Lab ID: QC332465

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	26.88	108	65-135
Benzene	25.00	24.73	99	65-135
Trichloroethene	25.00	27.25	109	65-135
Toluene	25.00	25.74	103	65-135
Chlorobenzene	25.00	26.68	107	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-120
1,2-Dichloroethane-d4	100	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	95	86-115

Type: BSD Lab ID: QC332466

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	24.38	98	65-135	10	35
Benzene	25.00	23.15	93	65-135	7	35
Trichloroethene	25.00	25.27	101	65-135	8	35
Toluene	25.00	23.61	94	65-135	9	35
Chlorobenzene	25.00	24.85	99	65-135	7	35

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-120
1,2-Dichloroethane-d4	102	76-114
Toluene-d8	97	88-110
Bromofluorobenzene	95	86-115

RPD= Relative Percent Difference

8260/624SA W ICAL

Data File: \\Gcmsserver\DD\chem\MSVOA06.i\030906.b\FC911.D

Date : 09-MAR-2006 13:59

Client ID: bfb tune std

Instrument: MSVOA06.i

Sample Info: BFB,S2327

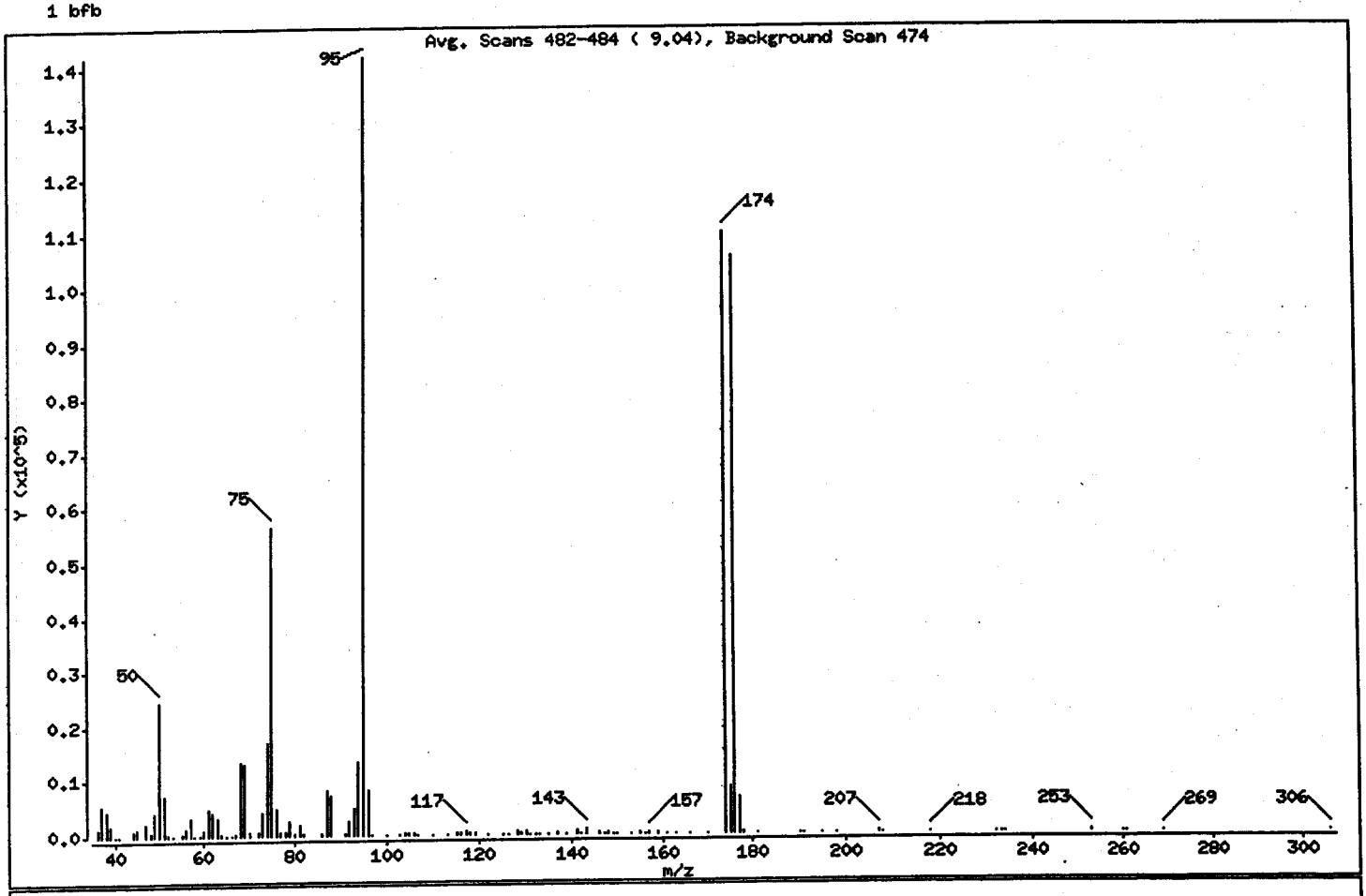
Volume Injected (uL): 1.0

Operator: BO

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.25
75	30.00 - 60.00% of mass 95	39.81
96	5.00 - 9.00% of mass 95	5.74
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	77.30
175	5.00 - 9.00% of mass 174	5.89 (7.62)
176	95.01 - 100.99% of mass 174	74.45 (96.32)
177	5.00 - 9.00% of mass 176	4.70 (6.32)

R 3/10/06

3/13/06

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\032206.b\FCM02.D

Date : 22-MAR-2006 08:31

Client ID: bfb tune std

Instrument: MSVOA06.i

Sample Info: BFB,S2327

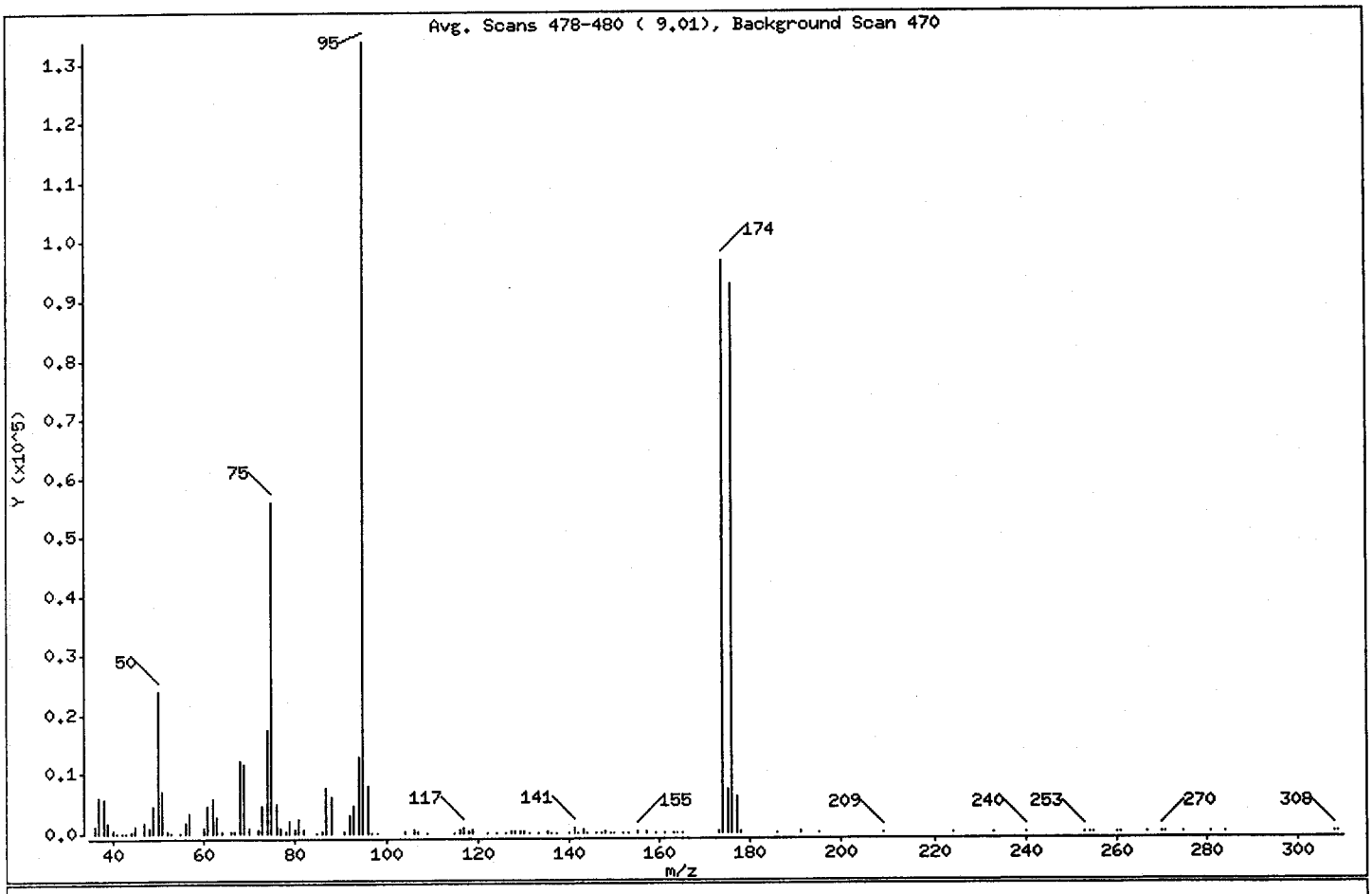
Volume Injected (uL): 1.0

Operator: BO

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.99
75	30.00 - 60.00% of mass 95	41.82
96	5.00 - 9.00% of mass 95	6.08
173	Less than 2.00% of mass 174	0.15 (0.20)
174	50.00 - 99.99% of mass 95	72.43
175	5.00 - 9.00% of mass 174	5.58 (7.71)
176	95.01 - 100.99% of mass 174	69.39 (95.81)
177	5.00 - 9.00% of mass 176	4.54 (6.54)

M 3/22/06

03/28/06

8260/6A50X W IAL

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 8260B

nst : MSVOA06 Name : 826GOX6W
alnum : 456098395001 Date : 09-MAR-2006 16:16 Type : WATER Inj Vol: 5000 uL
nits : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	fc915	456098395015	0.25/0.5PPB	09-MAR-2006 16:16	S2783 (1000000X), S2844 (2000000X), S2410 (2000000X), S2740 (1000X)
L2	fc916	456098395016	0.5/1PPB	09-MAR-2006 16:52	S2783 (500000X), S2844 (1000000X), S2410 (1000000X), S2740 (1000X)
L3	fc917	456098395017	2PPB	09-MAR-2006 17:27	S2783 (250000X), S2844 (250000X), S2410 (500000X), S2740 (1000X)
L4	fc918	456098395018	5PPB	09-MAR-2006 18:02	S2783 (100000X), S2844 (100000X), S2410 (200000X), S2740 (1000X)
L5	fc919	456098395019	10PPB	09-MAR-2006 18:37	S2783 (50000X), S2844 (50000X), S2410 (100000X), S2740 (1000X)
L6	fc920	456098395020	20PPB	09-MAR-2006 19:12	S2783 (25000X), S2844 (25000X), S2410 (50000X), S2740 (1000X)
L7	fc921	456098395021	50PPB	09-MAR-2006 19:47	S2783 (10000X), S2844 (10000X), S2410 (20000X), S2740 (1000X)
L8	fc922	456098395022	75PPB	09-MAR-2006 20:21	S2783 (6667X), S2844 (6667X), S2410 (13330X), S2740 (1000X)
L9	fc923	456098395023	100PPB	09-MAR-2006 20:56	S2783 (5000X), S2844 (5000X), S2410 (10000X), S2740 (1000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12	0.8680m	0.9680	0.5765m	0.8744	0.8792	0.9150	0.8965	0.9524	0.9525	AVRG		1.14177		0.8758	13	15	0.050	0.99	
Chloromethane		1.0407	0.8197	0.8861	0.8718	0.8601	0.8426	0.8646	0.8790	AVRG		1.13239		0.8831	8	15	0.10	0.99	
Vinyl Chloride		0.7171	0.6051	0.6632	0.7163	0.7452	0.6887	0.7352	0.7344	AVRG		1.42726		0.7006	7	15	0.050	0.99	
Bromomethane		0.6024	0.4323	0.3774m	0.4453	0.4379	0.4506	0.4719	0.4856	AVRG		2.16027		0.4629	14	15	0.050	0.99	97
Chloroethane		0.4613m	0.3695	0.3667	0.3963	0.3751	0.3702	0.3794	0.3705	AVRG		2.58977		0.3861	8	15	0.050	0.99	
Trichlorofluoromethane	0.9028	1.0932	0.6600	0.9526	1.0108	1.0176	0.9709	1.0589	1.0651	AVRG		1.03072		0.9702	13	15	0.050	0.99	
Acetone			0.4219	0.3756	0.3368	0.3359	0.3388	0.3409	0.3619	AVRG		2.78684		0.3588	9	15	0.050	0.99	
Freon 113	0.2691m	0.5570	0.4360	0.4137	0.3677	0.6318	0.5175	0.5803	0.6012	QUAD	0.47698	1.92489	-0.00450	0.4860	0.997	15	0.050	0.99	
1,1-Dichloroethene		0.7352	0.5763	0.5128	0.5011	0.6118	0.5362	0.5891	0.5653	AVRG		1.72864		0.5785	13	15	0.050	0.99	
Methylene Chloride			0.9139	0.8434	0.8800	0.8331	0.8253	0.8177	0.7888	AVRG		1.18602		0.8432	5	15	0.050	0.99	
Carbon Disulfide	2.2837	2.6686	2.2949	2.2764	2.2065	2.5367	2.2333	2.3902	2.3117	AVRG		0.42449		2.3558	6	15	0.050	0.99	
MTBE	2.3719	2.6069	2.3672	2.3297	2.4759	2.3751	2.2817	2.2760	2.2110	AVRG		0.42263		2.3661	5	15	0.050	0.99	
trans-1,2-Dichloroethene	0.8087	0.8602	0.7243	0.6502	0.6899	0.7306	0.6509	0.6857	0.6557	AVRG		1.39398		0.7174	10	15	0.050	0.99	
Vinyl Acetate			1.9969	2.0862	2.3777	2.3751	2.1802	2.1010	1.6685	AVRG		0.47343		2.1122	12	15	0.050	0.99	
1,1-Dichloroethane	1.3957	1.3639	1.3232	1.2979	1.3981	1.3860	1.2808	1.2798	1.2290	AVRG		0.75287		1.3283	5	15	0.10	0.99	
2-Butanone			0.5173	0.5270	0.5376	0.5134	0.5002	0.4880	0.4823	AVRG		1.96307		0.5094	4	15	0.050	0.99	
2,2-Dichloropropane	0.9564	0.9889	0.8727	0.8184	0.8080	0.8908	0.8009	0.8201	0.7889	AVRG		1.16202		0.8606	8	15	0.050	0.99	
cis-1,2-Dichloroethene	0.9107	1.1319	0.8972	0.7496	0.8309	0.8146	0.7717	0.7577	0.7354	AVRG		1.18426		0.8444	15	15	0.050	0.99	
Chloroform	1.3805	1.3756	1.3398	1.2327	1.3778	1.3326	1.2646	1.2664	1.2263	AVRG		0.76295		1.3107	5	15	0.050	0.99	
Bromochloromethane	0.4203	0.4021	0.3837	0.3777	0.4174	0.4032	0.3915	0.3833	0.3676	AVRG		2.53746		0.3941	5	15	0.050	0.99	
1,1,1-Trichloroethane		1.0081	0.8067	0.8058	0.8046	0.9240	0.8224	0.8722	0.8424	AVRG		1.16175		0.8608	8	15	0.050	0.99	
1,1-Dichloropropene	0.4858	0.5312	0.4502	0.4425	0.3977	0.5194	0.4552	0.4808	0.4704	AVRG		2.12606		0.4704	9	15	0.050	0.99	
Carbon Tetrachloride		0.3073	0.2921	0.2937	0.2606	0.3804	0.3380	0.3706	0.3665	AVRG		3.06619		0.3261	13	15	0.050	0.99	
1,2-Dichloroethane	0.4942	0.5146	0.5630	0.5277	0.5457	0.5374	0.5191	0.5090	0.4981	AVRG		1.91131		0.5232	4	15	0.050	0.99	

456098395001

* ICAL - 2CLEVE fails min RF

* ICV - OK, USACE - sec-butbenz↑, n-butbenz↑, Hxclbenz↑

PR 7/10/06

03/13/06

8260/624SA w ICAL

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene	1.6327	1.7415	1.5949	1.5390	1.5479	1.6182	1.4706	1.4944	1.4202	AVRG		0.64014		1.5622	6	15	0.050	0.99	
Trichloroethene	0.3756	0.3562	0.3979	0.3748	0.3444	0.3855	0.3552	0.3686	0.3644	AVRG		2.70866		0.3692	4	15	0.050	0.99	
1,2-Dichloropropane	0.4914	0.4838	0.4456	0.4445	0.4699	0.4661	0.4333	0.4225	0.4047	AVRG		2.21578		0.4513	6	15	0.050	0.99	
Bromodichloromethane	0.4830	0.5465	0.5319	0.5177	0.5563	0.5546	0.5379	0.5303	0.5163	AVRG		1.88501		0.5305	4	15	0.050	0.99	
Dibromomethane	0.3219	0.2846	0.3084	0.3282	0.3310	0.3215	0.3095	0.3076	0.2984	AVRG		3.20146		0.3124	5	15	0.050	0.99	
2-Chloroethylvinylether				0.0290	0.0425	0.0536	0.0254	0.0156	0.0146	AVRG		33.2104		0.0301	51	15	0.050	0.99	irf rsd ***
4-Methyl-2-Pentanone			0.5392	0.5694	0.5708	0.5734	0.5627	0.5453	0.5209	AVRG		1.80333		0.5545	4	15	0.050	0.99	
Tetramethyl THF	0.9159	0.9813	0.9650	1.0086	1.0453	1.0237	0.9698	0.9221	0.8787	AVRG		1.03322		0.9678	6	15	0.050	0.99	
cis-1,3-Dichloropropene	0.6435	0.6884	0.7029	0.6696	0.7113	0.7213	0.6799	0.6556	0.6275	AVRG		1.47543		0.6778	5	15	0.050	0.99	
Toluene	0.9220	0.9482	0.8704	0.8678	0.8594	0.9253	0.8658	0.8502	0.8110	AVRG		1.13637		0.8800	5	15	0.050	0.99	
trans-1,3-Dichloropropene	0.6287	0.5668	0.6534	0.6399	0.6423	0.6569	0.6248	0.6181	0.5994	AVRG		1.59850		0.6256	5	15	0.050	0.99	
1,1,2-Trichloroethane	0.2389	0.2273	0.2398	0.2266	0.2371	0.2267	0.2268	0.2233	0.2084	AVRG		4.37964		0.2283	4	15	0.050	0.99	
2-Hexanone			0.4755	0.4579	0.4988	0.4708	0.4743	0.4590	0.4522	AVRG		2.12866		0.4698	3	15	0.050	0.99	
1,3-Dichloropropane	0.8071	0.8843	0.8389	0.8337	0.8725	0.8567	0.8344	0.8163	0.7853	AVRG		1.19534		0.8366	4	15	0.050	0.99	
Tetrachloroethene	0.2946	0.3850	0.3426	0.3281	0.2957	0.3734	0.3402	0.3726	0.3683	AVRG		2.90285		0.3445	10	15	0.050	0.99	
Dibromochloromethane		0.4320	0.4554	0.4456	0.4904	0.4897	0.4855	0.5015	0.4889	AVRG		2.11142		0.4736	5	15	0.050	0.99	
1,2-Dibromoethane	0.4131	0.4720	0.4227	0.4372	0.4254	0.4444	0.4276	0.4156	0.4013	AVRG		2.33205		0.4288	5	15	0.050	0.99	
Chlorobenzene	1.1003	1.1189	1.1375	1.0887	1.1030	1.1325	1.0837	1.0870	1.0463	AVRG		0.90929		1.0998	3	15	0.30	0.99	
1,1,1,2-Tetrachloroethane	0.4216	0.4183	0.4392	0.3942	0.4086	0.4121	0.3960	0.3993	0.3792	AVRG		2.45334		0.4076	4	15	0.050	0.99	
Ethylbenzene	1.7509	1.9418	1.7223	1.7955	1.8120	1.9422	1.7826	1.8095	1.7055	AVRG		0.55342		1.8069	5	15	0.050	0.99	
m,p-Xylenes	0.6465	0.6812	0.6719	0.6486	0.6238	0.6676	0.6196	0.6283	0.5981	AVRG		1.55558		0.6428	4	15	0.050	0.99	
o-Xylene	0.6716	0.6655	0.6582	0.6666	0.6714	0.6702	0.6379	0.6472	0.6196	AVRG		1.52326		0.6565	3	15	0.050	0.99	
Styrene	1.1253	1.1203	1.1839	1.1608	1.2220	1.1939	1.1716	1.1703	1.1136	AVRG		0.86028		1.1624	3	15	0.050	0.99	
Bromoform		0.4158	0.3725	0.3668	0.3776	0.3781	0.3815	0.3951	0.3865	AVRG		2.60262		0.3842	4	15	0.10	0.99	
Isopropylbenzene	3.0450	3.7105	2.9352	2.9640	2.6546	3.1567	2.9111	2.9636	2.8824	AVRG		0.33060		3.0248	10	15	0.050	0.99	
1,1,2,2-Tetrachloroethane	1.4511	1.5750	1.5714	1.5398	1.5179	1.5289	1.4592	1.4001	1.2839	AVRG		0.67530		1.4808	6	15	0.30	0.99	
1,2,3-Trichloropropane		1.3699	1.2860	1.3461	1.2292	1.1989	1.1012	1.1063	1.0055	AVRG		0.82961		1.2054	11	15	0.050	0.99	
Propylbenzene	4.0372	4.5130	3.7305	3.6589	3.2640	3.9504	3.4912	3.6230	3.4066	AVRG		0.26726		3.7416	10	15	0.050	0.99	
Bromobenzene		1.1139	1.0469	1.0733	1.0018	1.0426	0.9966	0.9976	0.9548	AVRG		0.97236		1.0284	5	15	0.050	0.99	
1,3,5-Trimethylbenzene	2.2600	2.1966	2.2475	2.1688	2.0293	2.3001	2.1633	2.2516	2.1361	AVRG		0.45562		2.1948	4	15	0.050	0.99	
2-Chlorotoluene		3.4188	3.0168	2.8451	2.7407	2.8866	2.6995	2.7496	2.5443	AVRG		0.34932		2.8627	9	15	0.050	0.99	
4-Chlorotoluene		3.0431	2.7497	2.6703	2.5756	2.6852	2.5424	2.5817	2.4097	AVRG		0.37633		2.6572	7	15	0.050	0.99	
tert-Butylbenzene	1.8662	1.9510	1.7346	1.7486	1.5081	1.8648	1.7394	1.8192	1.7691	AVRG		0.56246		1.7779	7	15	0.050	0.99	
1,2,4-Trimethylbenzene	2.1543	1.9648	2.0970	2.0597	1.9258	2.1315	2.1157	2.2225	2.1158	AVRG		0.47905		2.0875	4	15	0.050	0.99	
sec-Butylbenzene	2.3308	2.6293	2.4399	2.3495	2.0214	2.7492	2.5343	2.6894	2.6025	AVRG		0.40275		2.4829	9	15	0.050	0.99	
para-Isopropyl Toluene	1.5801	1.7641	1.6028	1.6276	1.4714	1.8970	1.7755	1.9361	1.9108	AVRG		0.57820		1.7295	10	15	0.050	0.99	
1,3-Dichlorobenzene		1.6988	1.5733	1.5941	1.5727	1.5986	1.5691	1.5947	1.5144	AVRG		0.62914		1.5895	3	15	0.050	0.99	
1,4-Dichlorobenzene		1.7472	1.6169	1.6416	1.5713	1.6334	1.5981	1.6118	1.5410	AVRG		0.61722		1.6202	4	15	0.050	0.99	
n-Butylbenzene	1.2556m	1.2680	1.1694	1.2384	1.1150	1.5480	1.4932	1.6751		AVRG		0.74330		1.3453	15	15	0.050	0.99	
1,2-Dichlorobenzene	1.6166	1.5880	1.6074	1.5255	1.5923	1.6263	1.5827	1.6034	1.5227	AVRG		0.63091		1.5850	2	15	0.050	0.99	
1,2-Dibromo-3-Chloropropane		0.4470	0.2579	0.2564	0.2580	0.2398	0.2539	0.2490	0.2346	QUAD	0.47192	3.56985	0.026979	0.2746	0.999	15	0.050	0.99	

8260/GASDA W ICAL

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,4-Trichlorobenzene		0.2944	0.2500	0.3087	0.3271	0.4092	0.4596	0.5190		QUAD	0.92464	2.49106	-0.01515	0.3669	1.000	15	0.050	0.99	
Hexachlorobutadiene		0.1187	0.1187	0.1651	0.1497	0.2176	0.1989	0.2202		QUAD	0.60549	5.24561	-0.04346	0.1698	0.998	15	0.050	0.99	
Naphthalene		0.9088	1.1015	1.2352	1.2876	1.4547	1.5128	1.6406		QUAD	0.38280	0.72437	-0.00095	1.3059	1.000	15	0.050	0.99	
1,2,3-Trichlorobenzene		0.0995	0.1978	0.2610	0.3083	0.3840	0.4492	0.4988		QUAD	1.33161	2.52321	-0.01492	0.3141	0.999	15	0.050	0.99	
tert-Butyl Alcohol (TBA)		0.0818	0.0805	0.0738	0.0815	0.0735	0.0736	0.0724	0.0699	AVRG		13.1818		0.0759	6	15	0.005	0.99	
Isopropyl Ether (DIPE)	3.2567	3.3956	3.2417	3.2117	3.3782	3.2997	3.1147	3.0586	2.9453	AVRG		0.31139		3.2114	5	15	0.050	0.99	
Ethyl tert-Butyl Ether (ETBE)	2.3188	2.6225	2.2969	2.3394	2.5024	2.4089	2.3275	2.2862	2.2246	AVRG		0.42200		2.3697	5	15	0.050	0.99	
Methyl tert-Amyl Ether (TAME)	1.2958	1.2847	1.2257	1.2293	1.2872	1.2825	1.2181	1.1963	1.1444	AVRG		0.80616		1.2404	4	15	0.050	0.99	
Ethanol			0.0110	0.0102	0.0106	0.0105	0.0104	0.0099	0.0093	AVRG		97.4264		0.0103	5	15	0.0005	0.99	
Isopropanol			0.0559	0.0548	0.0603	0.0557	0.0549	0.0526	0.0503	AVRG		18.2030		0.0549	6	15	0.005	0.99	
Tetrahydrofuran		0.3409	0.3051	0.2903	0.2975	0.2769	0.2565	0.2379	0.2247	AVRG		3.58787		0.2787	14	15	0.005	0.99	
Dibromofluoromethane	0.6644	0.6697	0.6638	0.6731	0.6917	0.6728	0.6624	0.6531	0.6477	AVRG		1.50037		0.6665	2	15	0.050	0.99	
1,2-Dichloroethane-d4	0.4089	0.4041	0.4036	0.4047	0.4117	0.4195	0.3956	0.3924	0.3907	AVRG		2.47863		0.4034	2	15	0.050	0.99	
Trifluorotoluene	0.3443	0.4122	0.3901	0.3862	0.3403	0.4826	0.4069	0.4535	0.4452	AVRG		2.45821		0.4068	12	15	0.050	0.99	
Toluene-d8	1.0901	1.0831	1.0992	1.0967	1.0656	1.1116	1.0928	1.0808	1.0799	AVRG		0.91840		1.0888	1	15	0.050	0.99	
Bromofluorobenzene	1.2572	1.2682	1.1891	1.2097	1.1794	1.1768	1.1763	1.1778	1.1406	AVRG		0.83526		1.1972	3	15	0.050	0.99	

for incomplete integration in target

lrf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure

AVRG=Average response factor QUAD=Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

456098395001

8260/645X w/ICAL

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA06 Run Name: 25PPB IDF : 1.0
Seqnum : 456098395024 File : fc924 Time : 09-MAR-2006 21:30
Cal : 456098395001 Caldate : 09-MAR-2006 Caltype : WATER
Standards: S2807 (10000X), S2740 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	0.8758	0.7055	25.00	20.14	ug/L	-19	30	
Chloromethane	0.8831	0.8040	25.00	22.76	ug/L	-9	30	
Vinyl Chloride	0.7006	0.6130	25.00	21.87	ug/L	-13	20	
Bromomethane	0.4629	0.4255	25.00	22.98	ug/L	-8	30	
Chloroethane	0.3861	0.3493	25.00	22.61	ug/L	-10	30	
Trichlorofluoromethane	0.9702	0.8571	25.00	22.09	ug/L	-12	30	

ISTD (ICAL fc921)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	957753	1022053	6.71	12.35	12.35	0.00
1,4-Difluorobenzene	1704082	1828587	7.31	13.66	13.67	0.01
1,4-Dichlorobenzene-d4	701343	686381	-2.13	21.16	21.17	0.01

3/10/06

03/13/07

8260/6010A w 10x

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA06 Run Name: 25PPB IDF : 1.0
Seqnum : 456098395025 File : fc925 Time : 09-MAR-2006 22:05
Cal : 456098395001 Caldate : 09-MAR-2006 Caltype : WATER
Standards: S2829 (10000X), S2616 (10000X), S2740 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Acetone	0.3588	0.3207	25.00	22.34	ug/L	-11	40	
Freon 113	0.4860	0.5646	25.00	26.75	ug/L	7	30	
1,1-Dichloroethene	0.5785	0.6442	25.00	27.84	ug/L	11	20	
Methylene Chloride	0.8432	0.8715	25.00	25.84	ug/L	3	30	
Carbon Disulfide	2.3558	2.0922	25.00	22.20	ug/L	-11	30	
MTBE	2.3661	2.0964	25.00	22.15	ug/L	-11	30	
trans-1,2-Dichloroethene	0.7174	0.7242	25.00	25.24	ug/L	1	30	
Vinyl Acetate	2.1122	1.8626	25.00	22.05	ug/L	-12	40	
1,1-Dichloroethane	1.3283	1.3711	25.00	25.81	ug/L	3	30	
2-Butanone	0.5094	0.4759	25.00	23.36	ug/L	-7	40	
2,2-Dichloropropane	0.8606	0.8416	25.00	24.45	ug/L	-2	30	
cis-1,2-Dichloroethene	0.8444	0.8337	25.00	24.68	ug/L	-1	30	
Chloroform	1.3107	1.3268	25.00	25.31	ug/L	1	20	
Bromochloromethane	0.3941	0.4178	25.00	26.51	ug/L	6	30	
1,1,1-Trichloroethane	0.8608	0.9237	25.00	26.83	ug/L	7	30	
1,1-Dichloropropene	0.4704	0.5267	25.00	28.00	ug/L	12	30	
Carbon Tetrachloride	0.3261	0.3791	25.00	29.06	ug/L	16	30	
1,2-Dichloroethane	0.5232	0.5577	25.00	26.65	ug/L	7	30	
Benzene	1.5622	1.6037	25.00	25.67	ug/L	3	30	
Trichloroethene	0.3692	0.4055	25.00	27.46	ug/L	10	30	
1,2-Dichloropropane	0.4513	0.4670	25.00	25.87	ug/L	3	20	
Bromodichloromethane	0.5305	0.5960	25.00	28.09	ug/L	12	30	
Dibromomethane	0.3124	0.3284	25.00	26.28	ug/L	5	30	
2-Chloroethylvinylether	0.0301	0.0373	25.00	30.98	ug/L	24	40	
4-Methyl-2-Pentanone	0.5545	0.5477	25.00	24.69	ug/L	-1	40	
Tetramethyl THF	0.9678	0.9678	25.00	25.00	ug/L	0	30	
cis-1,3-Dichloropropene	0.6778	0.7226	25.00	26.65	ug/L	7	30	
Toluene	0.8800	0.9281	25.00	26.37	ug/L	5	20	
trans-1,3-Dichloropropene	0.6256	0.6188	25.00	24.73	ug/L	-1	30	
1,1,2-Trichloroethane	0.2283	0.2384	25.00	26.10	ug/L	4	30	
2-Hexanone	0.4698	0.4572	25.00	24.33	ug/L	-3	40	
1,3-Dichloropropane	0.8366	0.8871	25.00	26.51	ug/L	6	30	
Tetrachloroethene	0.3445	0.4018	25.00	29.16	ug/L	17	30	
Dibromochloromethane	0.4736	0.5292	25.00	27.93	ug/L	12	30	
1,2-Dibromoethane	0.4288	0.4408	25.00	25.70	ug/L	3	30	
Chlorobenzene	1.0998	1.2031	25.00	27.35	ug/L	9	30	
1,1,1,2-Tetrachloroethane	0.4076	0.4291	25.00	26.32	ug/L	5	30	
Ethylbenzene	1.8069	1.9826	25.00	27.43	ug/L	10	20	
m,p-Xylenes	0.6428	0.7003	50.00	54.46	ug/L	9	30	
o-Xylene	0.6565	0.7345	25.00	27.97	ug/L	12	30	
Styrene	1.1624	1.2711	25.00	27.34	ug/L	9	30	
Bromoform	0.3842	0.3988	25.00	25.95	ug/L	4	30	
Isopropylbenzene	3.0248	3.1560	25.00	26.08	ug/L	4	30	
1,1,2,2-Tetrachloroethane	1.4808	1.5428	25.00	26.05	ug/L	4	30	
1,2,3-Trichloropropane	1.2054	1.2151	25.00	25.20	ug/L	1	30	
Propylbenzene	3.7416	4.1461	25.00	27.70	ug/L	11	30	
Bromobenzene	1.0284	1.0770	25.00	26.18	ug/L	5	30	
1,3,5-Trimethylbenzene	2.1948	2.4158	25.00	27.52	ug/L	10	30	
2-Chlorotoluene	2.8627	3.1165	25.00	27.22	ug/L	9	30	

8260/6450D w ICAL

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
4-Chlorotoluene	2.6572	2.7919	25.00	26.27	ug/L	5	30	
tert-Butylbenzene	1.7779	2.0905	25.00	29.40	ug/L	18	30	
1,2,4-Trimethylbenzene	2.0875	2.2982	25.00	27.52	ug/L	10	30	
sec-Butylbenzene	2.4829	3.0149	25.00	30.36	ug/L	21	30	!v+
para-Isopropyl Toluene	1.7295	1.9878	25.00	28.73	ug/L	15	30	
1,3-Dichlorobenzene	1.5895	1.7328	25.00	27.25	ug/L	9	30	
1,4-Dichlorobenzene	1.6202	1.7428	25.00	26.89	ug/L	8	30	
n-Butylbenzene	1.3453	1.7100	25.00	31.78	ug/L	27	30	!v+
1,2-Dichlorobenzene	1.5850	1.7149	25.00	27.05	ug/L	8	30	
1,2-Dibromo-3-Chloropropane	0.2746	0.2574	25.00	24.56	ug/L	-2	30	
1,2,4-Trichlorobenzene	0.3669	0.4580	25.00	27.46	ug/L	10	30	
Hexachlorobutadiene	0.1698	0.2538	25.00	32.14	ug/L	29	30	!v+
Naphthalene	1.3059	1.4870	25.00	25.99	ug/L	4	30	
1,2,3-Trichlorobenzene	0.3141	0.4352	25.00	27.02	ug/L	8	30	
tert-Butyl Alcohol (TBA)	0.0759	0.0664	125.0	109.5	ug/L	-12	30	
Isopropyl Ether (DIPE)	3.2114	2.9536	25.00	22.99	ug/L	-8	30	
Ethyl tert-Butyl Ether (ETBE)	2.3697	2.4151	25.00	25.48	ug/L	2	30	
Methyl tert-Amyl Ether (TAME)	1.2404	1.2070	25.00	24.33	ug/L	-3	30	
Ethanol	0.0103	0.0087	2500	2113	ug/L	-15	30	
Isopropanol	0.0549	0.0484	250.0	220.2	ug/L	-12	30	
Tetrahydrofuran	0.2787	0.2617	250.0	234.8	ug/L	-6	30	

ISTD (ICAL fc921)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	957753	988539	3.21	12.35	12.36	0.01
1,4-Difluorobenzene	1704082	1746226	2.47	13.66	13.67	0.01
Chlorobenzene-d5	1422227	1446564	1.71	18.32	18.33	0.01
1,4-Dichlorobenzene-d4	701343	702193	0.12	21.16	21.17	0.01

03/13/06

12-31/13/06

!=warning +=high bias v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA06 Run Name: 25PPB IDF : 1.0
Seqnum : 456117120003 File : fcm03 Time : 22-MAR-2006 08:50
Cal : 456098395001 Caldate : 09-MAR-2006 Caltype : WATER
Standards: S2844 (20000X), S2783 (20000X), S2410 (40000X), S2740 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.8758	0.8727	25.00	24.91	ug/L	0	30	0.0500	
Chloromethane	0.8831	0.6992	25.00	19.79	ug/L	**-21**	30	0.1000	!c-
Vinyl Chloride	0.7006	0.5881	25.00	20.99	ug/L	-16	20	0.0500	
Bromomethane	0.4629	0.3805	25.00	20.55	ug/L	-18	30	0.0500	
Chloroethane	0.3861	0.3211	25.00	20.79	ug/L	-17	30	0.0500	
Trichlorofluoromethane	0.9702	0.9249	25.00	23.83	ug/L	-5	30	0.0500	m
Acetone	0.3588	0.3719	25.00	25.91	ug/L	4	40	0.0500	
Freon 113	0.4860	0.5099	25.00	24.29	ug/L	-3	30	0.0500	
1,1-Dichloroethene	0.5785	0.5140	25.00	22.21	ug/L	-11	20	0.0500	
Methylene Chloride	0.8432	0.7803	25.00	23.14	ug/L	-7	30	0.0500	
Carbon Disulfide	2.3558	2.2001	25.00	23.35	ug/L	-7	30	0.0500	
MTBE	2.3661	2.2518	25.00	23.79	ug/L	-5	30	0.0500	
trans-1,2-Dichloroethene	0.7174	0.6581	25.00	22.94	ug/L	-8	30	0.0500	
Vinyl Acetate	2.1122	2.1371	25.00	25.29	ug/L	1	40	0.0500	
1,1-Dichloroethane	1.3283	1.2336	25.00	23.22	ug/L	-7	30	0.1000	
2-Butanone	0.5094	0.5188	25.00	25.46	ug/L	2	40	0.0500	
2,2-Dichloropropane	0.8606	0.9012	25.00	26.18	ug/L	5	30	0.0500	
cis-1,2-Dichloroethene	0.8444	0.7491	25.00	22.18	ug/L	-11	30	0.0500	
Chloroform	1.3107	1.2360	25.00	23.58	ug/L	-6	20	0.0500	
Bromochloromethane	0.3941	0.3947	25.00	25.04	ug/L	0	30	0.0500	
1,1,1-Trichloroethane	0.8608	0.8117	25.00	23.58	ug/L	-6	30	0.0500	
1,1-Dichloropropene	0.4704	0.4550	25.00	24.18	ug/L	-3	30	0.0500	
Carbon Tetrachloride	0.3261	0.3402	25.00	26.08	ug/L	4	30	0.0500	
1,2-Dichloroethane	0.5232	0.5138	25.00	24.55	ug/L	-2	30	0.0500	
Benzene	1.5622	1.4213	25.00	22.75	ug/L	-9	30	0.0500	
Trichloroethene	0.3692	0.3376	25.00	22.86	ug/L	-9	30	0.0500	
1,2-Dichloropropane	0.4513	0.4184	25.00	23.18	ug/L	-7	20	0.0500	
Bromodichloromethane	0.5305	0.5193	25.00	24.47	ug/L	-2	30	0.0500	
Dibromomethane	0.3124	0.3046	25.00	24.38	ug/L	-2	30	0.0500	
2-Chloroethylvinylether	0.0301	0.0122	25.00	10.15	ug/L	**-59**	40	0.0500	c- crf irf rsd ***
4-Methyl-2-Pentanone	0.5545	0.5415	25.00	24.41	ug/L	-2	40	0.0500	
Tetramethyl THF	0.9678	0.9158	25.00	23.66	ug/L	-5	30	0.0500	
cis-1,3-Dichloropropene	0.6778	0.6683	25.00	24.65	ug/L	-1	30	0.0500	
Toluene	0.8800	0.8226	25.00	23.37	ug/L	-7	20	0.0500	
trans-1,3-Dichloropropene	0.6256	0.6285	25.00	25.12	ug/L	0	30	0.0500	
1,1,2-Trichloroethane	0.2283	0.2183	25.00	23.90	ug/L	-4	30	0.0500	
2-Hexanone	0.4698	0.4582	25.00	24.39	ug/L	-2	40	0.0500	
1,3-Dichloropropane	0.8366	0.7924	25.00	23.68	ug/L	-5	30	0.0500	
Tetrachloroethene	0.3445	0.3418	25.00	24.80	ug/L	-1	30	0.0500	
Dibromochloromethane	0.4736	0.4860	25.00	25.66	ug/L	3	30	0.0500	
1,2-Dibromoethane	0.4288	0.4166	25.00	24.29	ug/L	-3	30	0.0500	
Chlorobenzene	1.0998	1.0425	25.00	23.70	ug/L	-5	30	0.3000	
1,1,1,2-Tetrachloroethane	0.4076	0.3864	25.00	23.70	ug/L	-5	30	0.0500	
Ethylbenzene	1.8069	1.7487	25.00	24.19	ug/L	-3	20	0.0500	
m,p-Xylenes	0.6428	0.5997	50.00	46.65	ug/L	-7	30	0.0500	
o-Xylene	0.6565	0.6146	25.00	23.41	ug/L	-6	30	0.0500	
Styrene	1.1624	1.1136	25.00	23.95	ug/L	-4	30	0.0500	
Bromoform	0.3842	0.3774	25.00	24.56	ug/L	-2	30	0.1000	
Isopropylbenzene	3.0248	2.8501	25.00	23.56	ug/L	-6	30	0.0500	

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Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.4808	1.4657	25.00	24.75	ug/L	-1	30	0.3000	
1,2,3-Trichloropropane	1.2054	1.1496	25.00	23.84	ug/L	-5	30	0.0500	
Propylbenzene	3.7416	3.4772	25.00	23.23	ug/L	-7	30	0.0500	
Bromobenzene	1.0284	0.9755	25.00	23.71	ug/L	-5	30	0.0500	
1,3,5-Trimethylbenzene	2.1948	2.0801	25.00	23.69	ug/L	-5	30	0.0500	
2-Chlorotoluene	2.8627	2.6461	25.00	23.11	ug/L	-8	30	0.0500	
4-Chlorotoluene	2.6572	2.4453	25.00	23.01	ug/L	-8	30	0.0500	
tert-Butylbenzene	1.7779	1.6640	25.00	23.40	ug/L	-6	30	0.0500	
1,2,4-Trimethylbenzene	2.0875	2.0044	25.00	24.00	ug/L	-4	30	0.0500	
sec-Butylbenzene	2.4829	2.4043	25.00	24.21	ug/L	-3	30	0.0500	
para-Isopropyl Toluene	1.7295	1.7030	25.00	24.62	ug/L	-2	30	0.0500	
1,3-Dichlorobenzene	1.5895	1.5282	25.00	24.04	ug/L	-4	30	0.0500	
1,4-Dichlorobenzene	1.6202	1.5655	25.00	24.16	ug/L	-3	30	0.0500	
n-Butylbenzene	1.3453	1.4081	25.00	26.17	ug/L	5	30	0.0500	m
1,2-Dichlorobenzene	1.5850	1.5529	25.00	24.49	ug/L	-2	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.2746	0.2420	25.00	23.06	ug/L	-8	30	0.0500	
1,2,4-Trichlorobenzene	0.3669	0.4382	25.00	26.39	ug/L	6	30	0.0500	
Hexachlorobutadiene	0.1698	0.2188	25.00	28.00	ug/L	12	30	0.0500	
Naphthalene	1.3059	1.5570	25.00	27.13	ug/L	9	30	0.0500	
1,2,3-Trichlorobenzene	0.3141	0.4223	25.00	26.31	ug/L	5	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0759	0.0770	250.0	253.9	ug/L	2	30	0.0050	
Isopropyl Ether (DIPE)	3.2114	2.9089	25.00	22.65	ug/L	-9	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	2.3697	2.1842	25.00	23.04	ug/L	-8	30	0.0500	
Methyl tert-Amyl Ether (TAME)	1.2404	1.1756	25.00	23.69	ug/L	-5	30	0.0500	
Ethanol	0.0103	0.0107	2500	2595	ug/L	4	30	5.0E-4	
Isopropanol	0.0549	0.0569	250.0	258.9	ug/L	4	30	0.0050	
Tetrahydrofuran	0.2787	0.2614	250.0	234.5	ug/L	-6	30	0.0050	
Dibromofluoromethane	0.6665	0.6656	50.00	49.93	ug/L	0	30	0.0500	
1,2-Dichloroethane-d4	0.4034	0.4195	50.00	51.99	ug/L	4	30	0.0500	
Trifluorotoluene	0.4068	0.4149	25.00	25.50	ug/L	2	30	0.0500	
Toluene-d8	1.0888	1.0789	50.00	49.54	ug/L	-1	30	0.0500	
Bromofluorobenzene	1.1972	1.1562	50.00	48.29	ug/L	-3	30	0.0500	

ISTD (ICAL fc921)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	957753	896569	-6.39	12.35	12.31	-0.04
1,4-Difluorobenzene	1704082	1612296	-5.39	13.66	13.62	-0.04
Chlorobenzene-d5	1422227	1345668	-5.38	18.32	18.29	-0.03
1,4-Dichlorobenzene-d4	701343	654016	-6.75	21.16	21.13	-0.03

!=warning -=low bias c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 22-MAR-2006
Sequence: 456117120 (fcm)
Instrument ID: MSVOA06

ICAL Filename: fc921
Date Analyzed: 09-MAR-2006
Time Analyzed: 19:47

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	957753	12.35	1704082	13.66	1422227	18.32	701343	21.16
LOWER LIMIT	478877	11.85	852041	13.16	711114	17.82	350672	20.66
UPPER LIMIT	1915506	12.85	3408164	14.16	2844454	18.82	1402686	21.66

TYPE	SAMPLE	#								
CCV	25PPB	003	896569	12.31	1612296	13.62	1345668	18.29	654016	21.13
BS	QC332465	004	903185	12.31	1586611	13.63	1325659	18.29	649028	21.14
BSD	QC332466	005	900733	12.30	1608928	13.62	1327074	18.29	650997	21.14
BLANK	QC332467	007	897169	12.31	1615758	13.62	1318390	18.29	581229	21.14
SAMPLE	185574-038	008	863194	12.30	1535756	13.62	1305364	18.29	592710	21.13
SAMPLE	185626-003	009	865442	12.30	1569438	13.62	1278837	18.29	568659	21.14
SAMPLE	185638-008	010	841579	12.30	1519962	13.62	1252975	18.29	545525	21.14
SAMPLE	185638-005	011	833212	12.30	1529184	13.62	1279081	18.29	550938	21.13
SAMPLE	185638-007	012	839626	12.31	1533467	13.63	1254734	18.30	538277	21.13
SAMPLE	185626-001	013	845940	12.30	1496900	13.62	1253387	18.29	544018	21.14
SAMPLE	185626-002	014	860560	12.32	1560105	13.63	1268418	18.30	524919	21.14
SAMPLE	185622-001	015	811382	12.31	1498629	13.63	1207506	18.30	522757	21.14
SAMPLE	185622-002	016	800741	12.31	1492866	13.63	1241760	18.30	539216	21.13
SAMPLE	185622-003	017	806910	12.31	1486554	13.62	1255718	18.29	534826	21.14
SAMPLE	185622-004	018	801447	12.31	1468687	13.63	1206045	18.29	537759	21.14
SAMPLE	185622-005	019	801254	12.31	1470228	13.63	1218605	18.30	525056	21.14
SAMPLE	185622-006	020	793567	12.31	1459873	13.62	1202195	18.29	523382	21.14
SAMPLE	185622-007	021	795700	12.30	1405937	13.62	1211122	18.29	511249	21.14
SAMPLE	185625-001	022	785274	12.31	1441252	13.62	1193595	18.30	505475	21.14

8260/6A SDX W ICAL

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

equence: 456098395 Instrument: MSVOA06 HP GCMS VOA 06 Begun: 09-MAR-2006

nalytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
01	fc901	X	IB			09-MAR-2006 07:55	1.0						1	
02	fc902	TUN	BFB			09-MAR-2006 08:30	1.0						2	
03	fc903	CCV	25PPB			09-MAR-2006 08:47	1.0			5000			3 4 1	
04	fc904	BS	QC330702	111122	Soil	09-MAR-2006 09:36	1.0			5000			5 6 7 1	
05	fc905	BSD	QC330703	111122	Soil	09-MAR-2006 10:10	1.0			5000			5 6 7 1	
06	fc906	X	IB			09-MAR-2006 10:45	1.0						1	
07	fc907	BLANK	QC330704	111122	Soil	09-MAR-2006 11:28	1.0		1	5000			1	
08	fc908	MSS	185333-015	111122	Soil	09-MAR-2006 12:03	5.0	1	1	5000			1	1:ACE=135.352
09	fc909	MS	QC330769	111122	Soil	09-MAR-2006 12:38	5.0		1	5000			5 6 7 1	1:ACE=169.810
10	fc910	MSD	QC330770	111122	Soil	09-MAR-2006 13:13	5.0			5000			5 6 7 1	1:ACE=167.878
11	fc911	TUN	BFB			09-MAR-2006 13:59	1.0						2	
12	fc912	X	IB			09-MAR-2006 14:32	1.0						1	
13	fc913	X	IB			09-MAR-2006 15:06	1.0						1	
14	fc914	X	CALIB IB			09-MAR-2006 15:42	1.0						1	
15	fc915	ICAL	0.25/0.5PPB			09-MAR-2006 16:16	1.0						4 3 8 1	
16	fc916	ICAL	0.5/1PPB			09-MAR-2006 16:52	1.0						4 3 8 1	
17	fc917	ICAL	2PPB			09-MAR-2006 17:27	1.0						4 3 8 1	
18	fc918	ICAL	5PPB			09-MAR-2006 18:02	1.0						4 3 8 1	
19	fc919	ICAL	10PPB			09-MAR-2006 18:37	1.0						4 3 8 1	
20	fc920	ICAL	20PPB			09-MAR-2006 19:12	1.0						4 3 8 1	
21	fc921	ICAL	50PPB			09-MAR-2006 19:47	1.0						4 3 8 1	
22	fc922	ICAL	75PPB			09-MAR-2006 20:21	1.0						4 3 8 1	
23	fc923	ICAL	100PPB			09-MAR-2006 20:56	1.0						4 3 8 1	
24	fc924	ICV	25PPB			09-MAR-2006 21:30	1.0			5000			6 1	
25	fc925	ICV	25PPB			09-MAR-2006 22:05	1.0			5000			5 7 1	
26	fc926	X	IB			09-MAR-2006 22:39	1.0						1	
27	fc927	X	IB			09-MAR-2006 23:14	1.0						1	
28	fc928	X	IB			09-MAR-2006 23:48	1.0						1	

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* ICAL - 2CCEVE fails %RSD
* ICV - OK, USACE - sec-butbenz↑, n-butbenz↑, Hexbenz↑

Stds used: 1=S2740 2=S2327 3=S2844 4=S2783 5=S2829 6=S2807 7=S2616 8=S2410

Analyst: RRO Date: 3/10/06

03/13/06

5, 7, 8

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 456117120 Instrument: MSVOA06 HP GCMS VOA 06 Begun: 22-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	fcm01	X	IB			22-MAR-2006 08:00	1.0						1	
002	fcm02	TUN	BFB			22-MAR-2006 08:31	1.0						2	
003	fcm03	CCV	25PPB			22-MAR-2006 08:50	1.0	1		5000			3 4 5 1	
004	fcm04	BS	QC332465	111543	Water	22-MAR-2006 09:41	1.0	1		5000			6 7 8 1	
005	fcm05	BSD	QC332466	111543	Water	22-MAR-2006 10:16	1.0	1		5000			6 7 8 1	
006	fcm06	X	IB			22-MAR-2006 10:52	1.0						1	
007	fcm07	BLANK	QC332467	111543	Water	22-MAR-2006 11:27	1.0	1	1	5000			1	
008	fcm08	SAMPLE	185574-038	111543	Water	22-MAR-2006 12:02	2.0			5000	B	L2	1	
009	fcm09	SAMPLE	185626-003	111543	Water	22-MAR-2006 12:37	1.0			5000	A		1	
010	fcm10	SAMPLE	185638-008	111543	Water	22-MAR-2006 13:13	1.0			5000			1	
011	fcm11	SAMPLE	185638-005	111543	Water	22-MAR-2006 13:48	1.0			5000	C		1	
012	fcm12	SAMPLE	185638-007	111543	Water	22-MAR-2006 14:23	1.0			5000			1	
013	fcm13	SAMPLE	185626-001	111543	Water	22-MAR-2006 14:58	1.0			5000	A		1	
014	fcm14	SAMPLE	185626-002	111543	Water	22-MAR-2006 15:32	1.0			5000			1	
015	fcm15	SAMPLE	185622-001	111543	Water	22-MAR-2006 16:07	1.0			5000	A		1	107
016	fcm16	SAMPLE	185622-002	111543	Water	22-MAR-2006 16:43	1.0			5000			1	
017	fcm17	SAMPLE	185622-003	111543	Water	22-MAR-2006 17:18	1.0			5000			1	
018	fcm18	SAMPLE	185622-004	111543	Water	22-MAR-2006 17:53	1.0			5000			1	
019	fcm19	SAMPLE	185622-005	111543	Water	22-MAR-2006 18:28	1.0			5000			1	
020	fcm20	SAMPLE	185622-006	111543	Water	22-MAR-2006 19:03	1.0			5000	A		1	
021	fcm21	SAMPLE	185622-007	111543	Water	22-MAR-2006 19:39	1.0			5000			1	
022	fcm22	SAMPLE	185625-001	111543	Water	22-MAR-2006 20:14	1.0			5000	A	4	1	
023	fcm23	X	IB			22-MAR-2006 20:48	1.0						1	
024	fcm24	X	IB			22-MAR-2006 21:24	1.0						1	
025	fcm25	X	IB			22-MAR-2006 21:59	1.0						1	

A 3/23/06

Stds used: 1=S2740 2=S2327 3=S2844 4=S2783 5=S2410 6=S2902 7=S2953 8=S2616

Analyst: Rob Date: 3/22/06

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185638 8260 Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CLM	VCM	BRE	CLE	AC1	DCE	MTS	CCE	DTB	TCL	TCC	DCB	CCA	TCC	DCA	BTC	CZC	DCC	BEL	MTC	DIC	DBP	BZC	DCC	BLA	TCC	HXC	PBL	DYL	CBL	EBZ	XYL	XOL	TTY	SOM	TEE	PMA	DFA	DM1	BE4	BF
185638-005	MSVOA06	03/22/06 13:48	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185638-007	MSVOA06	03/22/06 14:23	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185638-008	MSVOA06	03/22/06 13:13	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC332465	MSVOA06	03/22/06 09:41	1.0	+	+	+	+		+	+		+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						+	+	+	+	+	+	+	
QC332466	MSVOA06	03/22/06 10:16	1.0	+	+	+	+		+	+		+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						+	+	+	+	+	+	+	
QC332467	MSVOA06	03/22/06 11:27	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 3/22/06

PREPPED BY.

111543

WATER

	SAMPLE NUM	AMT o/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
			B	<2			6	RR 2x, TCE o.R.	
1	185574 -38 *		A	4				1x	
2	185625 -1			<2					
3	185626 -1								
4	-2							TB	
5	-3		C					1x	
6	185638 -5							1x	
7	-7		A					TB	
8	-8							1x	
9	185622 -1								
0	-2								
1	-3								
2	-4								
3	-5		B						
4	-6								
15	-7								
16									
17									
18									
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PREPFORM.3

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water
As of 04/08/06

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
1,1-Dichloroethene	ug/L	0.27	0.22	0.062	0.17	0.10	0.085	0.089
Benzene	ug/L	0.11	0.041	0.060	0.061	0.12	0.044	0.027
Trichloroethene	ug/L	0.21	0.076	0.18	0.17	0.11	0.072	0.087
Toluene	ug/L	0.083	0.083	0.12	0.092	0.062	0.063	0.053
Chlorobenzene	ug/L	0.10	0.090	0.11	0.16	0.16	0.079	0.050
Freon 12	ug/L	0.18	0.099	0.22	0.062	0.15	0.24	0.18
Chloromethane	ug/L	0.12	0.16	0.12	0.18	0.13	0.16	0.089
Vinyl Chloride	ug/L	0.19	0.23	0.10	0.066	0.10	0.17	0.16
Bromomethane	ug/L	0.29	0.30	0.31	0.13	0.31	0.23	0.20
Chloroethane	ug/L	0.33	0.33	0.15	0.16	0.13	0.16	0.12
Trichlorofluoromethane	ug/L	0.16	0.057	0.17	0.10	0.080	0.089	0.10
Acetone	ug/L	0.39	0.87	0.21	0.85	0.16	0.26	0.49
Freon 113	ug/L	0.062	0.12	0.13	0.25	0.071	0.20	0.091
Methylene Chloride	ug/L	0.15	0.21	0.11	0.12	0.16	0.099	0.22
MTBE	ug/L	0.069	0.074	0.065	0.045	0.040	0.051	0.052
Carbon Disulfide	ug/L	0.039	0.031	0.086	0.076	0.11	0.058	0.037
trans-1,2-Dichloroethene	ug/L	0.37	0.13	0.18	0.051	0.064	0.11	0.093
Vinyl Acetate	ug/L	0.076	0.36	0.084	0.99	0.40	0.080	0.10
1,1-Dichloroethane	ug/L	0.088	0.061	0.048	0.090	0.11	0.063	0.063
2-Butanone	ug/L	0.16	0.17	0.20	0.50	0.099	0.17	0.26
cis-1,2-Dichloroethene	ug/L	0.26	0.18	0.083	0.12	0.042	0.096	0.11
2,2-Dichloropropane	ug/L	0.093	0.17	0.077	0.12	0.066	0.084	0.083
Chloroform	ug/L	0.082	0.055	0.086	0.060	0.11	0.030	0.044
Bromochloromethane	ug/L	0.091	0.090	0.10	0.18	0.11	0.20	0.15
1,1,1-Trichloroethane	ug/L	0.084	0.066	0.14	0.11	0.061	0.045	0.041
1,1-Dichloropropene	ug/L	0.12	0.11	0.081	0.16	0.16	0.052	0.055
Carbon Tetrachloride	ug/L	0.089	0.11	0.098	0.17	0.15	0.095	0.056
1,2-Dichloroethane	ug/L	0.090	0.088	0.099	0.096	0.12	0.058	0.056
1,2-Dichloropropane	ug/L	0.093	0.060	0.079	0.071	0.14	0.072	0.12
Bromodichloromethane	ug/L	0.086	0.039	0.067	0.074	0.10	0.081	0.069
Dibromomethane	ug/L	0.16	0.061	0.092	0.16	0.11	0.065	0.13
4-Methyl-2-Pentanone	ug/L	0.044	0.076	0.057	0.20	0.13	0.092	0.25
cis-1,3-Dichloropropene	ug/L	0.068	0.065	0.056	0.20	0.16	0.042	0.044
trans-1,3-Dichloropropene	ug/L	0.074	0.074	0.044	0.073	0.14	0.071	0.060
1,1,2-Trichloroethane	ug/L	0.12	0.12	0.14	0.19	0.15	0.094	0.058
2-Hexanone	ug/L	0.043	0.31	0.047	0.34	0.11	0.13	0.14
1,3-Dichloropropane	ug/L	0.064	0.067	0.061	0.063	0.10	0.045	0.068
Tetrachloroethene	ug/L	0.13	0.14	0.12	0.22	0.14	0.090	0.093
Dibromochloromethane	ug/L	0.099	0.054	0.10	0.085	0.056	0.077	0.063
1,2-Dibromoethane	ug/L	0.16	0.061	0.10	0.073	0.11	0.053	0.070
2-Chloroethylvinylether	ug/L	0.093	0.18	0.24	0.17	0.14	0.20	0.23
1,1,1,2-Tetrachloroethane	ug/L	0.11	0.087	0.10	0.11	0.14	0.046	0.088
Ethylbenzene	ug/L	0.059	0.076	0.075	0.17	0.041	0.060	0.11
m,p-Xylenes	ug/L	0.24	0.22	0.14	0.27	0.17	0.13	0.20
o-Xylene	ug/L	0.10	0.058	0.092	0.11	0.16	0.11	0.13

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water
As of 04/08/06

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
Styrene	ug/L	0.12	0.092	0.098	0.085	0.16	0.075	0.061
Bromoform	ug/L	0.12	0.088	0.11	0.18	0.094	0.079	0.15
Isopropylbenzene	ug/L	0.12	0.059	0.090	0.18	0.059	0.053	0.10
1,1,2,2-Tetrachloroethane	ug/L	0.13	0.096	0.086	0.047	0.13	0.070	0.055
1,2,3-Trichloropropane	ug/L	0.31	0.28	0.074	0.11	0.17	0.20	0.16
Propylbenzene	ug/L	0.075	0.10	0.063	0.21	0.023	0.055	0.11
Bromobenzene	ug/L	0.12	0.12	0.10	0.19	0.12	0.073	0.085
1,3,5-Trimethylbenzene	ug/L	0.060	0.095	0.047	0.14	0.057	0.077	0.13
2-Chlorotoluene	ug/L	0.12	0.11	0.068	0.15	0.025	0.047	0.12
4-Chlorotoluene	ug/L	0.079	0.069	0.043	0.14	0.037	0.032	0.069
tert-Butylbenzene	ug/L	0.11	0.15	0.075	0.19	0.038	0.042	0.079
1,2,4-Trimethylbenzene	ug/L	0.091	0.088	0.066	0.12	0.069	0.077	0.10
sec-Butylbenzene	ug/L	0.11	0.12	0.062	0.17	0.088	0.041	0.076
para-Isopropyl Toluene	ug/L	0.058	0.12	0.12	0.14	0.056	0.055	0.045
1,3-Dichlorobenzene	ug/L	0.080	0.16	0.097	0.18	0.060	0.071	0.10
1,4-Dichlorobenzene	ug/L	0.068	0.14	0.095	0.18	0.038	0.092	0.17
n-Butylbenzene	ug/L	0.12	0.15	0.11	0.18	0.21	0.048	0.12
1,2-Dichlorobenzene	ug/L	0.072	0.14	0.080	0.14	0.16	0.068	0.061
1,2-Dibromo-3-Chloropropane	ug/L	0.39	0.25	0.21	0.22	0.13	0.26	0.098
1,2,4-Trichlorobenzene	ug/L	0.12	0.17	0.14	0.16	0.10	0.16	0.17
Hexachlorobutadiene	ug/L	0.19	0.19	0.29	0.21	0.11	0.24	0.25
Naphthalene	ug/L	0.12	0.13	0.060	0.10	0.091	0.20	0.16
1,2,3-Trichlorobenzene	ug/L	0.063	0.17	0.10	0.20	0.095	0.18	0.29
tert-Butyl Alcohol (TBA)	ug/L	1.3	1.6	0.83	2.5	1.3	0.94	1.3
Isopropyl Ether (DIPE)	ug/L	0.068	0.070	0.063	0.027	0.030	0.053	0.027
Ethyl tert-Butyl Ether (ETBE)	ug/L	0.089	0.045	0.024	0.20	0.033	0.075	0.034
Methyl tert-Amyl Ether (TAME)	ug/L	0.094	0.13	0.055	0.054	0.048	0.032	0.057
Isopropanol	ug/L	4.6	2.7	1.6	6.6	1.5	1.4	1.1
Ethanol	ug/L	55	22	23	50	11	7.9	36
Hexane	ug/L				0.33		0.15	
Cyclohexanone	ug/L	3.8	2.4	0.21	1.6	1.6	2.5	
Tetrahydrofuran	ug/L	0.64	1.2	1.1	0.79	1.4	1.7	3.5
Tetramethyl THF	ug/L	0.067	0.061	0.062	0.20	0.10	0.055	0.078
Gasoline C6-C10	ug/L		15		4.8	15	8.5	
Gasoline C7-C12	ug/L		18		2.4	13	7.7	
Dibromofluoromethane	ug/L	3.1	2.9	1.8	2.4	1.5		3.2
1,2-Dichloroethane-d4	ug/L	3.0	3.9		2.4	1.2		3.0
Toluene-d8	ug/L	1.7	3.8		1.1	1.0		1.1
Bromofluorobenzene	ug/L	2.5	2.6		1.2	1.2		1.5
Trifluorotoluene	ug/L	0.12	0.43	0.065	0.21	0.13		0.14

POLYAROMATIC HYDROCARBONS

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185638	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	514AGW101	Batch#:	111665
Lab ID:	185638-001	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/24/06
Diln Fac:	1.000	Analyzed:	03/28/06

Analyte	Result	RL	MDL
Naphthalene	ND	1.1	
Acenaphthylene	ND	2.2	
Acenaphthene	ND	1.1	
Fluorene	ND	1.1	
Phenanthrene	ND	0.56	
Anthracene	ND	0.56	0.009
Fluoranthene	0.12 J	0.44	0.02
Pyrene	ND	0.22	
Benzo(a)anthracene	ND	0.11	
Chrysene	ND	0.11	
Benzo(b)fluoranthene	ND	0.22	
Benzo(k)fluoranthene	ND	0.11	
Benzo(a)pyrene	ND	0.11	
Dibenz(a,h)anthracene	ND	0.22	
Benzo(g,h,i)perylene	ND	0.22	
Indeno(1,2,3-cd)pyrene	ND	0.16	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	89	65-135
1-Methylnaphthalene (F)	80	65-135

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185638	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	FM14EX07GW102	Batch#:	111665
Lab ID:	185638-002	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/24/06
Diln Fac:	1.000	Analyzed:	03/28/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.95	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.95	
Fluorene	ND	0.95	
Phenanthrene	ND	0.48	
Anthracene	ND	0.48	0.008
Fluoranthene	0.09 J	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	83	65-135
1-Methylnaphthalene (F)	77	65-135

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185638	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	1221GW101	Batch#:	111665
Lab ID:	185638-003	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/24/06
Diln Fac:	1.000	Analyzed:	03/28/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.95	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.95	
Fluorene	ND	0.95	
Phenanthrene	ND	0.48	
Anthracene	ND	0.48	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	87	65-135
1-Methylnaphthalene (F)	81	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185638	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	1221GW102	Batch#:	111665
Lab ID:	185638-004	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/24/06
Diln Fac:	1.000	Analyzed:	03/28/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	91	65-135
1-Methylnaphthalene (F)	84	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185638	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	1213GW101	Batch#:	111665
Lab ID:	185638-005	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/24/06
Diln Fac:	1.000	Analyzed:	03/28/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	91	65-135
1-Methylnaphthalene (F)	85	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185638	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	FM14EX07GW101	Batch#:	111665
Lab ID:	185638-006	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/24/06
Diln Fac:	1.000	Analyzed:	03/28/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.98	
Acenaphthylene	ND	2.0	
Acenaphthene	ND	0.98	
Fluorene	ND	0.98	
Phenanthrene	ND	0.49	
Anthracene	ND	0.49	0.008
Fluoranthene	ND	0.39	0.02
Pyrene	ND	0.20	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	90	65-135
1-Methylnaphthalene (F)	84	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185638	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	DUP0317062A	Batch#:	111665
Lab ID:	185638-007	Sampled:	03/17/06
Matrix:	Water	Received:	03/17/06
Units:	ug/L	Prepared:	03/24/06
Diln Fac:	1.000	Analyzed:	03/28/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	88	65-135
1-Methylnaphthalene (F)	82	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185638	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332984	Batch#:	111665
Matrix:	Water	Prepared:	03/24/06
Units:	ug/L	Analyzed:	03/27/06

Analyte	Result	RL	MDL
Naphthalene	ND	1.0	
Acenaphthylene	ND	2.0	
Acenaphthene	ND	1.0	
Fluorene	ND	1.0	
Phenanthrene	ND	0.50	
Anthracene	ND	0.50	0.008
Fluoranthene	ND	0.40	0.02
Pyrene	ND	0.20	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	80	65-135
1-Methylnaphthalene (F)	76	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185638	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Matrix:	Water	Batch#:	111665
Units:	ug/L	Prepared:	03/24/06
Diln Fac:	1.000	Analyzed:	03/27/06

Type: BS Lab ID: QC332985

Analyte	Spiked	Result	%REC	Limits
Naphthalene	10.00	9.459	95	50-135
Fluorene	2.000	1.932	97	65-135
Pyrene	1.000	0.9083	91	65-135
Benzo(a)pyrene	1.000	0.9237	92	65-135

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	92	65-135
1-Methylnaphthalene (F)	87	65-135

Type: BSD Lab ID: QC332986

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Naphthalene	10.00	9.288	93	50-135	2	35
Fluorene	2.000	1.870	93	65-135	3	35
Pyrene	1.000	0.8832	88	65-135	3	35
Benzo(a)pyrene	1.000	0.8894	89	65-135	4	35

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	90	65-135
1-Methylnaphthalene (F)	85	65-135

RPD= Relative Percent Difference

Confirmation Report for 185638 HPLC Water
Curtis & Tompkins Laboratories

Units: ug/L

Lab ID	Client ID	Analyte	Result	Confirmation	RPD	%D
185638-001	514AGW101	Fluoranthene	0.1168 J	0.6535	139	459
185638-002	FM14EX07GW102	Fluoranthene	0.09037 J	0.04241	72	-53

J=estimated

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185638 HPLC Water: EPA 8310

Inst : HPLC04
Calnum : 295454249001
Units : ug/L

Date : 11-NOV-2005 13:27
X Axis : R

Reviewer: MCH
Inj Vol : 10 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	31500006	295454249006		11-NOV-2005 13:27	S1620
L2	31500007	295454249007		11-NOV-2005 13:58	S1619
L3	31500008	295454249008		11-NOV-2005 14:30	S1618
L4	31500009	295454249009		11-NOV-2005 15:02	S1617
L5	31500010	295454249010		11-NOV-2005 15:33	S1616
L6	31500011	295454249011		11-NOV-2005 16:05	S1615
L7	31500012	295454249012		11-NOV-2005 16:36	S1614

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Naphthalene	1	0.0130	0.0130	0.0130	0.0132	0.0131	0.0129	0.0130	LINR	-24.714	77.1181		0.0130	1.000	0.99	20	
Acenaphthylene	1	0.0092	0.0091	0.0093	0.0095	0.0094	0.0092	0.0091	LINR	-214.44	109.425		0.0093	1.000	0.99	20	
Acenaphthene	1	0.0049	0.0049	0.0051	0.0052	0.0051	0.0050	0.0050	LINR	-85.609	200.350		0.0050	1.000	0.99	20	
Fluorene	1	0.0623	0.0618	0.0631	0.0639	0.0633	0.0627	0.0629	LINR	-2.8635	15.9062		0.0629	1.000	0.99	20	
Phenanthrene	1	0.1801	0.1766	0.1803	0.1826	0.1801	0.1784	0.1795	LINR	-1.3045	5.57871		0.1797	1.000	0.99	20	
Anthracene	1	0.4031	0.4032	0.4080	0.4134	0.4084	0.4043	0.4050	LINR	-3.4533	2.47159		0.4065	1.000	0.99	20	
Fluoranthene	1	0.0405	0.0401	0.0407	0.0416	0.0411	0.0407	0.0412	LINR	4.76117	24.3260		0.0408	1.000	0.99	20	
Pyrene	1	0.0324	0.0319	0.0332	0.0334	0.0330	0.0331	0.0336	LINR	8.56100	29.7835		0.0329	1.000	0.99	20	
Benzo(a)anthracene	1	0.0846	0.0904	0.0906	0.0917	0.0910	0.0903	0.0918	LINR	6.16312	10.9120		0.0901	1.000	0.99	20	
Chrysene	1	0.1299	0.1298	0.1319	0.1351	0.1332	0.1321	0.1335	LINR	2.64524	7.49865		0.1322	1.000	0.99	20	
Benzo(b)fluoranthene	1	0.0989	0.1025	0.1054	0.1076	0.1069	0.1059	0.1068	LINR	5.37165	9.37329		0.1049	1.000	0.99	20	
Benzo(k)fluoranthene	1	0.0806	0.0758	0.0785	0.0804	0.0803	0.0803	0.0814	LINR	9.05452	12.2962		0.0796	1.000	0.99	20	
Benzo(a)pyrene	1	0.0781	0.0812	0.0842	0.0867	0.0863	0.0861	0.0870	LINR	8.12100	11.4914		0.0842	1.000	0.99	20	
Dibenz(a,h)anthracene	1	0.0174	0.0209	0.0203	0.0209	0.0211	0.0213	0.0216	LINR	28.9418	46.3202		0.0205	1.000	0.99	20	
Benzo(g,h,i)perylene	1	0.0332	0.0346	0.0347	0.0354	0.0353	0.0353	0.0357	LINR	17.3259	27.9927		0.0349	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	1	0.0843	0.0838	0.0916	0.0948	0.0947	0.0946	0.0953	LINR	8.70680	10.4860		0.0913	1.000	0.99	20	
1-Methylnaphthalene (UV)	1	0.0084	0.0085	0.0086	0.0086	0.0085	0.0084	0.0084	LINR	-262.66	119.128		0.0085	1.000	0.99	20	
Acenaphthylene	2	0.0273	0.0273	0.0279	0.0282	0.0280	0.0277	0.0279	LINR	7.54152	35.8750		0.0277	1.000	0.99	20	
1-Methylnaphthalene (UV)	2	0.0030	0.0030	0.0031	0.0031	0.0031	0.0030	0.0030	LINR	-125.29	329.273		0.0031	1.000	0.99	20	
Naphthalene	3	0.0118	0.0118	0.0118	0.0119	0.0119	0.0117	0.0116	LINR	-94.622	86.2298		0.0118	1.000	0.99	20	
Acenaphthene	3	0.0242	0.0241	0.0242	0.0246	0.0244	0.0239		LINR	-65.047	41.8154		0.0242	1.000	0.99	20	
Fluorene	3	0.1329	0.1328	0.1337	0.1349	0.1333	0.1303		LINR	-17.920	7.68242		0.1330	1.000	0.99	20	
Phenanthrene	3	0.1403	0.1414	0.1416	0.1432	0.1419	0.1386	0.1387	LINR	-8.7849	7.22392		0.1408	1.000	0.99	20	
Anthracene	3	0.4105	0.4089	0.4142	0.4203	0.4141	0.4106	0.4119	LINR	-2.5156	2.43034		0.4129	1.000	0.99	20	
Fluoranthene	3	0.0408	0.0402	0.0409	0.0415	0.0411	0.0406	0.0409	LINR	-2.6821	24.5038		0.0409	1.000	0.99	20	
Pyrene	3	0.1357	0.1319	0.1342	0.1369	0.1342	0.1312	0.1332	LINR	-2.1762	7.53143		0.1339	1.000	0.99	20	

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Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Benzo(a)anthracene	3	0.1507	0.1492	0.1525	0.1551	0.1526	0.1506	0.1519	LINR	-1.3548	6.59583		0.1518	1.000	0.99	20	
Chrysene	3	0.1830	0.1826	0.1864	0.1898	0.1872	0.1843	0.1845	LINR	-5.3078	5.42554		0.1854	1.000	0.99	20	
Benzo(b)fluoranthene	3	0.0661	0.0655	0.0671	0.0681	0.0672	0.0664	0.0670	LINR	-0.3738	14.9546		0.0668	1.000	0.99	20	
Benzo(k)fluoranthene	3	0.3904	0.3881	0.3960	0.4014	0.3974	0.3923	0.3904	LINR	-7.1975	2.56238		0.3937	1.000	0.99	20	
Benzo(a)pyrene	3	0.2124	0.2112	0.2162	0.2193	0.2168	0.2137	0.2143	LINR	-3.8765	4.67175		0.2148	1.000	0.99	20	
Dibenz(a,h)anthracene	3	0.0298	0.0299	0.0311	0.0319	0.0317	0.0316	0.0320	LINR	14.7159	31.2756		0.0311	1.000	0.99	20	
Benzo(g,h,i)perylene	3	0.0617	0.0613	0.0626	0.0641	0.0636	0.0633	0.0639	LINR	8.49542	15.6646		0.0629	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	3	0.0928	0.0930	0.0946	0.0968	0.0967	0.0963	0.0973	LINR	6.16011	10.2852		0.0953	1.000	0.99	20	
1-Methylnaphthalene (F)	3	0.0132	0.0131	0.0132	0.0133	0.0132	0.0128		LINR	-457.43	78.4104		0.0131	1.000	0.99	20	

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LINR=Linear regression

Instrument amount = a0 + response * a1 + response^2 * a2

295454249001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185638 HPLC Water
EPA 8310

Inst : HPLC04
Calnum : 295454249001 Cal Date: 11-NOV-2005

ICV 295454249015 (31500015 11-NOV-2005) stds: S1859

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1	5000	5429	ug/L	9	15	
Acenaphthylene	1	10000	11450	ug/L	14	15	
Acenaphthene	1	5000	5731	ug/L	15	15	
Fluorene	1	1000	1083	ug/L	8	15	
Phenanthrene	1	500.0	527.1	ug/L	5	15	
Anthracene	1	500.0	541.6	ug/L	8	15	
Fluoranthene	1	1000	1095	ug/L	9	15	
Pyrene	1	500.0	544.7	ug/L	9	15	
Benzo(a)anthracene	1	500.0	539.7	ug/L	8	15	
Chrysene	1	500.0	541.3	ug/L	8	15	
Benzo(b)fluoranthene	1	1000	1079	ug/L	8	15	
Benzo(k)fluoranthene	1	500.0	541.4	ug/L	8	15	
Benzo(a)pyrene	1	500.0	528.7	ug/L	6	15	
Dibenz(a,h)anthracene	1	1000	1083	ug/L	8	15	
Benzo(g,h,i)perylene	1	1000	1068	ug/L	7	15	
Indeno(1,2,3-cd)pyrene	1	500.0	543.1	ug/L	9	15	
Acenaphthylene	2	10000	10910	ug/L	9	15	
Naphthalene	3	5000	5415	ug/L	8	15	
Acenaphthene	3	5000	5652	ug/L	13	15	
Fluorene	3	1000	1080	ug/L	8	15	
Phenanthrene	3	500.0	519.8	ug/L	4	15	
Anthracene	3	500.0	542.4	ug/L	8	15	
Fluoranthene	3	1000	1101	ug/L	10	15	
Pyrene	3	500.0	543.9	ug/L	9	15	
Benzo(a)anthracene	3	500.0	536.6	ug/L	7	15	
Chrysene	3	500.0	537.3	ug/L	7	15	
Benzo(b)fluoranthene	3	1000	1079	ug/L	8	15	
Benzo(k)fluoranthene	3	500.0	544.4	ug/L	9	15	
Benzo(a)pyrene	3	500.0	526.8	ug/L	5	15	
Dibenz(a,h)anthracene	3	1000	1078	ug/L	8	15	
Benzo(g,h,i)perylene	3	1000	1049	ug/L	5	15	
Indeno(1,2,3-cd)pyrene	3	500.0	542.2	ug/L	8	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185638 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: L IDF : 1.0
Seqnum : 296124782002 File : 08600002 Time : 27-MAR-2006 16:13
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2256

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0150	2500	2863	ug/L	15	15	
Acenaphthylene	1	0.0093	0.0098	5000	5167	ug/L	3	15	
Acenaphthene	1	0.0050	0.0057	2500	2787	ug/L	11	15	
Fluorene	1	0.0629	0.0674	500.0	533.0	ug/L	7	15	
Phenanthrene	1	0.1797	0.1923	250.0	266.8	ug/L	7	15	
Anthracene	1	0.4065	0.4214	250.0	256.9	ug/L	3	15	
Fluoranthene	1	0.0408	0.0426	500.0	522.9	ug/L	5	15	
Pyrene	1	0.0329	0.0331	250.0	255.3	ug/L	2	15	
Benzo(a)anthracene	1	0.0901	0.0965	250.0	269.4	ug/L	8	15	
Chrysene	1	0.1322	0.1441	250.0	272.8	ug/L	9	15	
Benzo(b)fluoranthene	1	0.1049	0.1119	500.0	529.9	ug/L	6	15	
Benzo(k)fluoranthene	1	0.0796	0.0856	250.0	272.2	ug/L	9	15	
Benzo(a)pyrene	1	0.0842	0.0901	250.0	266.9	ug/L	7	15	
Dibenz(a,h)anthracene	1	0.0205	0.0214	500.0	524.8	ug/L	5	15	
Benzo(g,h,i)perylene	1	0.0349	0.0360	500.0	520.6	ug/L	4	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.0978	250.0	265.2	ug/L	6	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0085	50000	50150	ug/L	0	15	
Acenaphthylene	2	0.0277	0.0299	5000	5378	ug/L	8	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	49750	ug/L	-1	15	
Naphthalene	3	0.0118	0.0120	2500	2493	ug/L	0	15	
Acenaphthene	3	0.0242	0.0246	2500	2505	ug/L	0	15	
Fluorene	3	0.1330	0.1363	500.0	505.6	ug/L	1	15	
Phenanthrene	3	0.1408	0.1453	250.0	253.6	ug/L	1	15	
Anthracene	3	0.4129	0.4203	250.0	252.9	ug/L	1	15	
Fluoranthene	3	0.0409	0.0414	500.0	505.0	ug/L	1	15	
Pyrene	3	0.1339	0.1342	250.0	250.5	ug/L	0	15	
Benzo(a)anthracene	3	0.1518	0.1557	250.0	255.4	ug/L	2	15	
Chrysene	3	0.1854	0.1932	250.0	256.7	ug/L	3	15	
Benzo(b)fluoranthene	3	0.0668	0.0682	500.0	509.7	ug/L	2	15	
Benzo(k)fluoranthene	3	0.3937	0.4072	250.0	253.6	ug/L	1	15	
Benzo(a)pyrene	3	0.2148	0.2191	250.0	252.1	ug/L	1	15	
Dibenz(a,h)anthracene	3	0.0311	0.0318	500.0	512.0	ug/L	2	15	
Benzo(g,h,i)perylene	3	0.0629	0.0613	500.0	488.8	ug/L	-2	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.0974	250.0	256.7	ug/L	3	15	
1-Methylnaphthalene (F)	3	0.0131	0.0122	50000	47420	ug/L	-5	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185638 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: M IDF : 1.0
Seqnum : 296124782016 File : 08600016 Time : 27-MAR-2006 23:36
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2255

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0138	5000	5293	ug/L	6	15	
Acenaphthylene	1	0.0093	0.0097	10000	10410	ug/L	4	15	
Acenaphthene	1	0.0050	0.0054	5000	5277	ug/L	6	15	
Fluorene	1	0.0629	0.0654	1000	1038	ug/L	4	15	
Phenanthrene	1	0.1797	0.1864	500.0	518.5	ug/L	4	15	
Anthracene	1	0.4065	0.4094	500.0	502.5	ug/L	0	15	
Fluoranthene	1	0.0408	0.0417	1000	1019	ug/L	2	15	
Pyrene	1	0.0329	0.0332	500.0	503.3	ug/L	1	15	
Benzo(a)anthracene	1	0.0901	0.0960	500.0	529.7	ug/L	6	15	
Chrysene	1	0.1322	0.1416	500.0	533.5	ug/L	7	15	
Benzo(b)fluoranthene	1	0.1049	0.1114	1000	1049	ug/L	5	15	
Benzo(k)fluoranthene	1	0.0796	0.0856	500.0	535.0	ug/L	7	15	
Benzo(a)pyrene	1	0.0842	0.0897	500.0	523.7	ug/L	5	15	
Dibenz(a,h)anthracene	1	0.0205	0.0216	1000	1029	ug/L	3	15	
Benzo(g,h,i)perylene	1	0.0349	0.0351	1000	1000	ug/L	0	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.0978	500.0	521.7	ug/L	4	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0083	50000	49000	ug/L	-2	15	
Acenaphthylene	2	0.0277	0.0294	10000	10540	ug/L	5	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0029	50000	48310	ug/L	-3	15	
Naphthalene	3	0.0118	0.0117	5000	4948	ug/L	-1	15	
Acenaphthene	3	0.0242	0.0240	5000	4944	ug/L	-1	15	
Fluorene	3	0.1330	0.1332	1000	1005	ug/L	1	15	
Phenanthrene	3	0.1408	0.1408	500.0	499.8	ug/L	0	15	
Anthracene	3	0.4129	0.4117	500.0	497.7	ug/L	0	15	
Fluoranthene	3	0.0409	0.0406	1000	991.8	ug/L	-1	15	
Pyrene	3	0.1339	0.1300	500.0	487.5	ug/L	-2	15	
Benzo(a)anthracene	3	0.1518	0.1522	500.0	500.5	ug/L	0	15	
Chrysene	3	0.1854	0.1883	500.0	505.6	ug/L	1	15	
Benzo(b)fluoranthene	3	0.0668	0.0673	1000	1005	ug/L	1	15	
Benzo(k)fluoranthene	3	0.3937	0.4057	500.0	512.6	ug/L	3	15	
Benzo(a)pyrene	3	0.2148	0.2159	500.0	500.4	ug/L	0	15	
Dibenz(a,h)anthracene	3	0.0311	0.0320	1000	1016	ug/L	2	15	
Benzo(g,h,i)perylene	3	0.0629	0.0601	1000	950.5	ug/L	-5	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.0965	500.0	502.3	ug/L	0	15	
1-Methylnaphthalene (F)	3	0.0131	0.0119	50000	46050	ug/L	-8	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185638 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: H IDF : 1.0
Seqnum : 296124782029 File : 08600029 Time : 28-MAR-2006 06:27
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2954

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0129	10000	9924	ug/L	-1	15	
Acenaphthylene	1	0.0093	0.0091	20000	19790	ug/L	-1	15	
Acenaphthene	1	0.0050	0.0050	10000	9992	ug/L	0	15	
Fluorene	1	0.0629	0.0619	2000	1966	ug/L	-2	15	
Phenanthrene	1	0.1797	0.1768	1000	984.7	ug/L	-2	15	
Anthracene	1	0.4065	0.3894	1000	958.9	ug/L	-4	15	
Fluoranthene	1	0.0408	0.0400	2000	1951	ug/L	-2	15	
Pyrene	1	0.0329	0.0314	1000	943.9	ug/L	-6	15	
Benzo(a)anthracene	1	0.0901	0.0901	1000	989.5	ug/L	-1	15	
Chrysene	1	0.1322	0.1333	1000	1002	ug/L	0	15	
Benzo(b)fluoranthene	1	0.1049	0.1050	2000	1975	ug/L	-1	15	
Benzo(k)fluoranthene	1	0.0796	0.0815	1000	1011	ug/L	1	15	
Benzo(a)pyrene	1	0.0842	0.0827	1000	958.3	ug/L	-4	15	
Dibenz(a,h)anthracene	1	0.0205	0.0214	2000	2012	ug/L	1	15	
Benzo(g,h,i)perylene	1	0.0349	0.0336	2000	1899	ug/L	-5	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.0937	1000	990.8	ug/L	-1	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0083	50000	49320	ug/L	-1	15	
Acenaphthylene	2	0.0277	0.0277	20000	19910	ug/L	0	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	48950	ug/L	-2	15	
Naphthalene	3	0.0118	0.0108	10000	9215	ug/L	-8	15	
Acenaphthene	3	0.0242	0.0225	10000	9358	ug/L	-6	15	
Fluorene	3	0.1330	0.1252	2000	1906	ug/L	-5	15	
Phenanthrene	3	0.1408	0.1321	1000	945.5	ug/L	-5	15	
Anthracene	3	0.4129	0.3914	1000	948.8	ug/L	-5	15	
Fluoranthene	3	0.0409	0.0380	2000	1861	ug/L	-7	15	
Pyrene	3	0.1339	0.1200	1000	901.8	ug/L	-10	15	
Benzo(a)anthracene	3	0.1518	0.1423	1000	936.9	ug/L	-6	15	
Chrysene	3	0.1854	0.1754	1000	946.4	ug/L	-5	15	
Benzo(b)fluoranthene	3	0.0668	0.0632	2000	1890	ug/L	-6	15	
Benzo(k)fluoranthene	3	0.3937	0.3847	1000	978.6	ug/L	-2	15	
Benzo(a)pyrene	3	0.2148	0.1987	1000	924.5	ug/L	-8	15	
Dibenz(a,h)anthracene	3	0.0311	0.0302	2000	1907	ug/L	-5	15	
Benzo(g,h,i)perylene	3	0.0629	0.0562	2000	1770	ug/L	-12	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.0916	1000	948.2	ug/L	-5	15	
1-Methylnaphthalene (F)	3	0.0131	0.0118	50000	45830	ug/L	-8	15	

SEQUENCE SUMMARY FOR 185638 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 295454249 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 11-NOV-2005
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC SPK uL	VL	pH	Stds Used	>LR
001	31500001	X	PRIMER - 315			11-NOV-2005 10:49	1.0					
002	31500002	X	PRIMER			11-NOV-2005 11:20	1.0					
003	31500003	X	IB - 315			11-NOV-2005 11:52	1.0					
004	31500004	X	IB			11-NOV-2005 12:24	1.0					
005	31500005	X	IB			11-NOV-2005 12:55	1.0					
006	31500006	ICAL				11-NOV-2005 13:27	1.0				1	
007	31500007	ICAL				11-NOV-2005 13:58	1.0				2	
008	31500008	ICAL				11-NOV-2005 14:30	1.0				3	
009	31500009	ICAL				11-NOV-2005 15:02	1.0				4	
010	31500010	ICAL				11-NOV-2005 15:33	1.0				5	
011	31500011	ICAL				11-NOV-2005 16:05	1.0				6	
012	31500012	ICAL				11-NOV-2005 16:36	1.0				7	
013	31500013	X	IB			11-NOV-2005 17:08	1.0					
014	31500014	X	IB			11-NOV-2005 17:40	1.0					
015	31500015	ICV				11-NOV-2005 18:11	1.0	10			8	129
016	31500016	X	ICV			11-NOV-2005 18:43	1.0				8	
017	31500017	X	IB			11-NOV-2005 19:14	1.0					

Stds used: 1=S1620 2=S1619 3=S1618 4=S1617 5=S1616 6=S1615 7=S1614 8=S1859

SEQUENCE SUMMARY FOR 185638 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296124782 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 27-MAR-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	08600001	X	IB - 086			27-MAR-2006 15:42	1.0						
002	08600002	CCV	L			27-MAR-2006 16:13	1.0	1.0			10	1	
003	08600003	X	CCV			27-MAR-2006 16:45	1.0					1	
004	08600004	X	IB			27-MAR-2006 17:16	1.0						
005	08600005	BS	QC332985	111665	Water	27-MAR-2006 17:48	1.0	0.002			10		
006	08600006	BSD	QC332986	111665	Water	27-MAR-2006 18:20	1.0	0.002			10		
007	08600007	BLANK	QC332984	111665	Water	27-MAR-2006 18:51	1.0	0.002			10		
008	08600008	SAMPLE	185622-030	111665	Water	27-MAR-2006 19:23	1.0	0.001905			10		
009	08600009	SAMPLE	185622-031	111665	Water	27-MAR-2006 19:55	1.0	0.001905			10		
010	08600010	SAMPLE	185622-033	111665	Water	27-MAR-2006 20:26	1.0	0.001887		1	10		
011	08600011	SAMPLE	185622-034	111665	Water	27-MAR-2006 20:58	1.0	0.001905			10		
012	08600012	SAMPLE	185622-035	111665	Water	27-MAR-2006 21:29	1.0	0.00198			10		
013	08600013	SAMPLE	185622-036	111665	Water	27-MAR-2006 22:01	1.0	0.001887			10		
014	08600014	SAMPLE	185622-037	111665	Water	27-MAR-2006 22:33	1.0	0.001887			10		
015	08600015	X	IB			27-MAR-2006 23:04	1.0						130
016	08600016	CCV	M			27-MAR-2006 23:36	1.0	1.0			10	2	
017	08600017	X	CCV			28-MAR-2006 00:07	1.0					2	
018	08600018	X	IB			28-MAR-2006 00:39	1.0						
019	08600019	SAMPLE	185638-001	111665	Water	28-MAR-2006 01:11	1.0	0.002222			10		
020	08600020	SAMPLE	185638-002	111665	Water	28-MAR-2006 01:42	1.0	0.001905			10		
021	08600021	SAMPLE	185638-003	111665	Water	28-MAR-2006 02:14	1.0	0.001905			10		
022	08600022	SAMPLE	185638-005	111665	Water	28-MAR-2006 02:45	1.0	0.001887			10		
023	08600023	SAMPLE	185638-006	111665	Water	28-MAR-2006 03:17	1.0	0.001961			10		
024	08600024	SAMPLE	185638-007	111665	Water	28-MAR-2006 03:49	1.0	0.001887			10		
025	08600025	SAMPLE	185638-004	111665	Water	28-MAR-2006 04:20	1.0	0.001887			10		
026	08600026	X	IB			28-MAR-2006 04:52	1.0						
027	08600027	SAMPLE	185590-013	111569	Water	28-MAR-2006 05:23	1.0	0.001887			10		
028	08600028	X	IB			28-MAR-2006 05:55	1.0						
029	08600029	CCV	H			28-MAR-2006 06:27	1.0	1.0			10	3	
030	08600030	X	CCV			28-MAR-2006 06:58	1.0					3	
031	08600031	X	IB			28-MAR-2006 07:30	1.0						

Stds used: 1=S2256 2=S2255 3=S2954

REPORTING SUMMARY FOR 185638 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185638-001	Naphthalene	HPLC04	1	03/28/06 01:11
185638-001	Acenaphthylene	HPLC04	1	03/28/06 01:11
185638-001	Acenaphthene	HPLC04	1	03/28/06 01:11
185638-001	Fluorene	HPLC04	1	03/28/06 01:11
185638-001	Phenanthrene	HPLC04	3	03/28/06 01:11
185638-001	Anthracene	HPLC04	3	03/28/06 01:11
185638-001	Fluoranthene	HPLC04	3	03/28/06 01:11
185638-001	Pyrene	HPLC04	3	03/28/06 01:11
185638-001	Benzo(a)anthracene	HPLC04	3	03/28/06 01:11
185638-001	Chrysene	HPLC04	3	03/28/06 01:11
185638-001	Benzo(b)fluoranthene	HPLC04	3	03/28/06 01:11
185638-001	Benzo(k)fluoranthene	HPLC04	3	03/28/06 01:11
185638-001	Benzo(a)pyrene	HPLC04	3	03/28/06 01:11
185638-001	Dibenz(a,h)anthracene	HPLC04	3	03/28/06 01:11
185638-001	Benzo(g,h,i)perylene	HPLC04	3	03/28/06 01:11
185638-001	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/28/06 01:11
185638-001	1-Methylnaphthalene (UV)	HPLC04	1	03/28/06 01:11
185638-001	1-Methylnaphthalene (F)	HPLC04	3	03/28/06 01:11
185638-002	Naphthalene	HPLC04	1	03/28/06 01:42
185638-002	Acenaphthylene	HPLC04	1	03/28/06 01:42
185638-002	Acenaphthene	HPLC04	1	03/28/06 01:42
185638-002	Fluorene	HPLC04	1	03/28/06 01:42
185638-002	Phenanthrene	HPLC04	3	03/28/06 01:42
185638-002	Anthracene	HPLC04	3	03/28/06 01:42
185638-002	Fluoranthene	HPLC04	3	03/28/06 01:42
185638-002	Pyrene	HPLC04	3	03/28/06 01:42
185638-002	Benzo(a)anthracene	HPLC04	3	03/28/06 01:42
185638-002	Chrysene	HPLC04	3	03/28/06 01:42
185638-002	Benzo(b)fluoranthene	HPLC04	3	03/28/06 01:42
185638-002	Benzo(k)fluoranthene	HPLC04	3	03/28/06 01:42
185638-002	Benzo(a)pyrene	HPLC04	3	03/28/06 01:42
185638-002	Dibenz(a,h)anthracene	HPLC04	3	03/28/06 01:42
185638-002	Benzo(g,h,i)perylene	HPLC04	3	03/28/06 01:42
185638-002	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/28/06 01:42
185638-002	1-Methylnaphthalene (UV)	HPLC04	1	03/28/06 01:42
185638-002	1-Methylnaphthalene (F)	HPLC04	3	03/28/06 01:42
185638-003	Naphthalene	HPLC04	1	03/28/06 02:14
185638-003	Acenaphthylene	HPLC04	1	03/28/06 02:14
185638-003	Acenaphthene	HPLC04	1	03/28/06 02:14
185638-003	Fluorene	HPLC04	1	03/28/06 02:14
185638-003	Phenanthrene	HPLC04	3	03/28/06 02:14
185638-003	Anthracene	HPLC04	3	03/28/06 02:14
185638-003	Fluoranthene	HPLC04	3	03/28/06 02:14
185638-003	Pyrene	HPLC04	3	03/28/06 02:14
185638-003	Benzo(a)anthracene	HPLC04	3	03/28/06 02:14
185638-003	Chrysene	HPLC04	3	03/28/06 02:14
185638-003	Benzo(b)fluoranthene	HPLC04	3	03/28/06 02:14
185638-003	Benzo(k)fluoranthene	HPLC04	3	03/28/06 02:14
185638-003	Benzo(a)pyrene	HPLC04	3	03/28/06 02:14
185638-003	Dibenz(a,h)anthracene	HPLC04	3	03/28/06 02:14
185638-003	Benzo(g,h,i)perylene	HPLC04	3	03/28/06 02:14
185638-003	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/28/06 02:14

REPORTING SUMMARY FOR 185638 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185638-003	1-Methylnaphthalene (UV)	HPLC04	1	03/28/06 02:14
185638-003	1-Methylnaphthalene (F)	HPLC04	3	03/28/06 02:14
185638-004	Naphthalene	HPLC04	1	03/28/06 04:20
185638-004	Acenaphthylene	HPLC04	1	03/28/06 04:20
185638-004	Acenaphthene	HPLC04	1	03/28/06 04:20
185638-004	Fluorene	HPLC04	1	03/28/06 04:20
185638-004	Phenanthrene	HPLC04	3	03/28/06 04:20
185638-004	Anthracene	HPLC04	3	03/28/06 04:20
185638-004	Fluoranthene	HPLC04	3	03/28/06 04:20
185638-004	Pyrene	HPLC04	3	03/28/06 04:20
185638-004	Benzo(a)anthracene	HPLC04	3	03/28/06 04:20
185638-004	Chrysene	HPLC04	3	03/28/06 04:20
185638-004	Benzo(b)fluoranthene	HPLC04	3	03/28/06 04:20
185638-004	Benzo(k)fluoranthene	HPLC04	3	03/28/06 04:20
185638-004	Benzo(a)pyrene	HPLC04	3	03/28/06 04:20
185638-004	Dibenz(a,h)anthracene	HPLC04	3	03/28/06 04:20
185638-004	Benzo(g,h,i)perylene	HPLC04	3	03/28/06 04:20
185638-004	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/28/06 04:20
185638-004	1-Methylnaphthalene (UV)	HPLC04	1	03/28/06 04:20
185638-004	1-Methylnaphthalene (F)	HPLC04	3	03/28/06 04:20
185638-005	Naphthalene	HPLC04	1	03/28/06 02:45
185638-005	Acenaphthylene	HPLC04	1	03/28/06 02:45
185638-005	Acenaphthene	HPLC04	1	03/28/06 02:45
185638-005	Fluorene	HPLC04	1	03/28/06 02:45
185638-005	Phenanthrene	HPLC04	3	03/28/06 02:45
185638-005	Anthracene	HPLC04	3	03/28/06 02:45
185638-005	Fluoranthene	HPLC04	3	03/28/06 02:45
185638-005	Pyrene	HPLC04	3	03/28/06 02:45
185638-005	Benzo(a)anthracene	HPLC04	3	03/28/06 02:45
185638-005	Chrysene	HPLC04	3	03/28/06 02:45
185638-005	Benzo(b)fluoranthene	HPLC04	3	03/28/06 02:45
185638-005	Benzo(k)fluoranthene	HPLC04	3	03/28/06 02:45
185638-005	Benzo(a)pyrene	HPLC04	3	03/28/06 02:45
185638-005	Dibenz(a,h)anthracene	HPLC04	3	03/28/06 02:45
185638-005	Benzo(g,h,i)perylene	HPLC04	3	03/28/06 02:45
185638-005	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/28/06 02:45
185638-005	1-Methylnaphthalene (UV)	HPLC04	1	03/28/06 02:45
185638-005	1-Methylnaphthalene (F)	HPLC04	3	03/28/06 02:45
185638-006	Naphthalene	HPLC04	1	03/28/06 03:17
185638-006	Acenaphthylene	HPLC04	1	03/28/06 03:17
185638-006	Acenaphthene	HPLC04	1	03/28/06 03:17
185638-006	Fluorene	HPLC04	1	03/28/06 03:17
185638-006	Phenanthrene	HPLC04	3	03/28/06 03:17
185638-006	Anthracene	HPLC04	3	03/28/06 03:17
185638-006	Fluoranthene	HPLC04	3	03/28/06 03:17
185638-006	Pyrene	HPLC04	3	03/28/06 03:17
185638-006	Benzo(a)anthracene	HPLC04	3	03/28/06 03:17
185638-006	Chrysene	HPLC04	3	03/28/06 03:17
185638-006	Benzo(b)fluoranthene	HPLC04	3	03/28/06 03:17
185638-006	Benzo(k)fluoranthene	HPLC04	3	03/28/06 03:17
185638-006	Benzo(a)pyrene	HPLC04	3	03/28/06 03:17

REPORTING SUMMARY FOR 185638 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185638-006	Dibenz(a,h)anthracene	HPLC04	3	03/28/06 03:17
185638-006	Benzo(g,h,i)perylene	HPLC04	3	03/28/06 03:17
185638-006	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/28/06 03:17
185638-006	1-Methylnaphthalene (UV)	HPLC04	1	03/28/06 03:17
185638-006	1-Methylnaphthalene (F)	HPLC04	3	03/28/06 03:17
185638-007	Naphthalene	HPLC04	1	03/28/06 03:49
185638-007	Acenaphthylene	HPLC04	1	03/28/06 03:49
185638-007	Acenaphthene	HPLC04	1	03/28/06 03:49
185638-007	Fluorene	HPLC04	1	03/28/06 03:49
185638-007	Phenanthrene	HPLC04	3	03/28/06 03:49
185638-007	Anthracene	HPLC04	3	03/28/06 03:49
185638-007	Fluoranthene	HPLC04	3	03/28/06 03:49
185638-007	Pyrene	HPLC04	3	03/28/06 03:49
185638-007	Benzo(a)anthracene	HPLC04	3	03/28/06 03:49
185638-007	Chrysene	HPLC04	3	03/28/06 03:49
185638-007	Benzo(b)fluoranthene	HPLC04	3	03/28/06 03:49
185638-007	Benzo(k)fluoranthene	HPLC04	3	03/28/06 03:49
185638-007	Benzo(a)pyrene	HPLC04	3	03/28/06 03:49
185638-007	Dibenz(a,h)anthracene	HPLC04	3	03/28/06 03:49
185638-007	Benzo(g,h,i)perylene	HPLC04	3	03/28/06 03:49
185638-007	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/28/06 03:49
185638-007	1-Methylnaphthalene (UV)	HPLC04	1	03/28/06 03:49
185638-007	1-Methylnaphthalene (F)	HPLC04	3	03/28/06 03:49
QC332984	Naphthalene	HPLC04	1	03/27/06 18:51
QC332984	Acenaphthylene	HPLC04	1	03/27/06 18:51
QC332984	Acenaphthene	HPLC04	1	03/27/06 18:51
QC332984	Fluorene	HPLC04	1	03/27/06 18:51
QC332984	Phenanthrene	HPLC04	3	03/27/06 18:51
QC332984	Anthracene	HPLC04	3	03/27/06 18:51
QC332984	Fluoranthene	HPLC04	3	03/27/06 18:51
QC332984	Pyrene	HPLC04	3	03/27/06 18:51
QC332984	Benzo(a)anthracene	HPLC04	3	03/27/06 18:51
QC332984	Chrysene	HPLC04	3	03/27/06 18:51
QC332984	Benzo(b)fluoranthene	HPLC04	3	03/27/06 18:51
QC332984	Benzo(k)fluoranthene	HPLC04	3	03/27/06 18:51
QC332984	Benzo(a)pyrene	HPLC04	3	03/27/06 18:51
QC332984	Dibenz(a,h)anthracene	HPLC04	3	03/27/06 18:51
QC332984	Benzo(g,h,i)perylene	HPLC04	3	03/27/06 18:51
QC332984	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/27/06 18:51
QC332984	1-Methylnaphthalene (UV)	HPLC04	1	03/27/06 18:51
QC332984	1-Methylnaphthalene (F)	HPLC04	3	03/27/06 18:51
QC332985	Naphthalene	HPLC04	1	03/27/06 17:48
QC332985	Fluorene	HPLC04	1	03/27/06 17:48
QC332985	Pyrene	HPLC04	3	03/27/06 17:48
QC332985	Benzo(a)pyrene	HPLC04	3	03/27/06 17:48
QC332985	1-Methylnaphthalene (UV)	HPLC04	1	03/27/06 17:48
QC332985	1-Methylnaphthalene (F)	HPLC04	3	03/27/06 17:48
QC332986	Naphthalene	HPLC04	1	03/27/06 18:20
QC332986	Fluorene	HPLC04	1	03/27/06 18:20
QC332986	Pyrene	HPLC04	3	03/27/06 18:20

REPORTING SUMMARY FOR 185638 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC332986	Benzo(a)pyrene	HPLC04	3	03/27/06 18:20
QC332986	1-Methylnaphthalene (UV)	HPLC04	1	03/27/06 18:20
QC332986	1-Methylnaphthalene (F)	HPLC04	3	03/27/06 18:20

Curtis & Tompkins Laboratories **Sample Preparation Summary** **27-MAR-2006 14:15**

Batch Number : 111665
Date Extracted: 24-MAR-2006
Extracted by : Sandra Felipe Luna
Prep Method : 3520C

Analysis : 8310
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2841V
Spike #2 ID : S2884A
Spike #3 ID :
SOP Version : 8310w_rv6

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185622-030		Treadwell & Rollo	Water	1050	mL	2	0.001905	1	7	.1	0		8310		
185622-031		Treadwell & Rollo	Water	1050	mL	2	0.001905	1	7	.1	0		8310		
185622-033		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	7	.1	0		8310		
185622-034		Treadwell & Rollo	Water	1050	mL	2	0.001905	1	7	.1	0		8310		
185622-035		Treadwell & Rollo	Water	1010	mL	2	0.001980	1	6	.1	0		8310		
185622-036		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	7	.1	0		8310		
185622-037		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	7	.1	0		8310		
185638-001		Treadwell & Rollo	Water	900	mL	2	0.002222	1	7	.1	0		8310		
185638-002		Treadwell & Rollo	Water	1050	mL	2	0.001905	1	7	.1	0		8310		
185638-003		Treadwell & Rollo	Water	1050	mL	2	0.001905	1	7	.1	0		8310		
185638-004		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	7	.1	0		8310		
185638-005		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	7	.1	0		8310		
185638-006		Treadwell & Rollo	Water	1020	mL	2	0.001961	1	7	.1	0		8310		
185638-007		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	7	.1	0		8310		
QC332984	BLANK		Water	1000	mL	2	0.002000	1		.1	0		8310		
QC332985	BS		Water	1000	mL	2	0.002000	1		.1	1		8310		
QC332986	BSD		Water	1000	mL	2	0.002000	1		.1	1		8310		

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Prep Chemist: _____ Reviewed By: _____ Date: 3/27/06

Relinquished By: _____ Received By: _____ Date: 27MAR2006

Curtis & Tompkins, Ltd

8310 WATER PREP LOG

BK2190

LIMS Batch No: 111665
LIMS Analysis: 8310.
Extracted by: SFL
Date Extracted: 3/24/06

Extraction Method:
☐ EPA 3510c sep. funnel
☑ EPA 3520c cont. L/L
☐ _____

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Cleanup Method (if needed):
☐ EPA 3640a GPC
☐ EPA 3630c Silica Gel

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185022-030 I	1050	7	2.0		
-031 G	↓	↓	↓		
-032 K	1060				☆
-034 H	1050	↓			*
-035 I	1010	6			
-036 I	1060	7			
-037 M	1060				
185638-001 D	900				
-002	1050				
-003	1050				
-004	1060				
-005 G	1060				
-006 D	1070				
-007 G	1060	↓		↓	
MB QC332984	1000	N/A			☆
BS 85					↓
BSD 86	↓	↓	↓		

XMH 3/27/06

* lady receives lost ~5 mls of total volume

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.1 mL of surrogate solution was added to all samples	S2841 ✓ / IN*	SFL 3/24
1.0 mL of matrix spiking solution was added to all spikes	S2884A	
☑ Samples continuously extracted with about 450 mL of CH_2Cl_2	EM460100	
Extraction Start Time:	1317	↓
Extraction End Time:	1020	3/25/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	3/27/06
Extracts filtered through baked, CH2Cl2-rinsed ~~powdered~~ granular Na2SO4	EM451185 32	
Exchanged 2x with Acetonitrile	EM45211	
Concentrated: ☑ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Silica Gel	NA	
Extracts filtered with 0.45 um PTFE syringe filter	WHATMAN K435	↓

SFL 3/24/06
Extraction Chemist Date

Contined from Page ____
Continued on Page ____

3/27/06
Reviewed by Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8310 Water 3520C
As of 04/08/06

Analyte	Units	HPLC02 1	HPLC02 2	HPLC02 3	HPLC04 1	HPLC04 2	HPLC04 3
Naphthalene	ug/L	0.16		0.069	0.097		0.10
Acenaphthylene	ug/L	0.37	0.29		0.24	0.16	
2-Methylnaphthalene	ug/L				0.072		0.10
Acenaphthene	ug/L	0.36		0.098	0.33		0.085
Fluorene	ug/L	0.051		0.054	0.028		0.017
Phenanthrene	ug/L	0.030		0.0086	0.0082		0.0078
Anthracene	ug/L	0.021		0.0077	0.024		0.023
Fluoranthene	ug/L	0.13		0.011	0.042		0.013
Pyrene	ug/L	0.066		0.0048	0.036		0.010
Benzo(a)anthracene	ug/L	0.044		0.0046	0.022		0.013
Chrysene	ug/L	0.036		0.0059	0.021		0.0096
Benzo(b)fluoranthene	ug/L	0.032		0.0081	0.015		0.013
Benzo(k)fluoranthene	ug/L	0.037		0.0044	0.013		0.0080
Benzo(a)pyrene	ug/L	0.055		0.0045	0.017		0.025
Dibenz(a,h)anthracene	ug/L	0.12		0.026	0.037		0.025
Benzo(g,h,i)perylene	ug/L	0.066		0.014	0.047		0.017
Indeno(1,2,3-cd)pyrene	ug/L	0.065		0.011	0.013		0.0096
1-Methylnaphthalene (UV)	ug/L	1.2	1.9		9.0	9.1	
1-Methylnaphthalene (F)	ug/L			0.72			9.8

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 185679

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.04.51
Location: Presidio

Sample ID	Lab ID
NKGW02	185679-001
NKGW05	185679-002
NKGW01	185679-003
NKGW04	185679-004
DUP0320061A	185679-005
LF6GW105	185679-006
LF6GW106	185679-007
1349MW105	185679-008
600GW107	185679-009
LF01GW06	185679-010
LF02GW04	185679-011
LF01GW07	185679-012
LF01GW04	185679-013
LF01GW03	185679-014
LF01GW05	185679-015
LF02GW02	185679-016
LF10GW01	185679-017
TB0320063A	185679-018
LF5SP100	185679-019
610SP01	185679-020
610SP02	185679-021
TB0321063A	185679-022

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 4/22/06
Operations Manager

Signature: _____ Date: 4/29/06
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**185679**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**03/21/06**
Samples Received:	**03/21/06**

This hardcopy data package contains sample and QC results for twenty two water samples, requested for the above referenced project on 03/21/06. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):
No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
Low response was observed for bromomethane in the CCV analyzed 03/23/06 09:19; this analyte met minimum response criteria. No other analytical problems were encountered.

Pesticides (EPA 8081A):
High response was observed for methoxychlor in the ICV analyzed 03/25/06 02:24; average ICV drift met method requirements, and this analyte was not detected at or above the RL in the associated samples. Low responses were observed for 4,4'-DDT and methoxychlor in the CCV analyzed 03/28/06 23:28; average CCV drift met method requirements. Low surrogate recoveries were observed for TCMX in the method blank/BS/BSD for batch 111733; the corresponding decachlorobiphenyl surrogate recoveries were within limits. No other analytical problems were encountered.

Polynuclear Aromatics by HPLC (EPA 8310):
No analytical problems were encountered.

Metals (EPA 6010B, EPA 6020, and EPA 7470A) Water:
Response exceeding the instrument's linear range was observed for calcium in the MS/MSD of 600GW107 (lab # 185679-009). High RPD was observed for aluminum in the MS/MSD of 600GW107 (lab # 185679-009); the RPD was acceptable in the BS/BSD. No other analytical problems were encountered.

Metals (EPA 6010B, EPA 6020, and EPA 7470A) Filtrate:
No analytical problems were encountered.

Ion Chromatography (EPA 300.0):
Response exceeding the instrument's linear range was observed for chloride in the matrix spike for batch 111578. No other analytical problems were encountered.

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**185679**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**03/21/06**
Samples Received:	**03/21/06**

Total Cyanide (EPA 335.2):
No analytical problems were encountered.

Alkalinity (EPA 310.1):
No analytical problems were encountered.

Sulfide (EPA 376.2):
No analytical problems were encountered.

Total Dissolved Solids (TDS) (EPA 160.1):
An analytical error was detected for sample 610SP01 (lab # 185679-020) during package review. The sample was reanalyzed confirming an error had occurred during the original analysis. The reanalysis result has been reported, however, the reanalysis was performed 27 days past the EPA recommended hold time. The result for this sample may be used for informational purposes only. No analytical problems were encountered.

Total Organic Carbon (TOC) (EPA 415.2):
No analytical problems were encountered.

NDMA (EPA 1625):
Pacific Analytical, Inc. in Carlsbad, CA performed the analysis. Please see the Pacific Analytical, Inc. case narrative.

Chain of Custody

185679

Treadwell&Rollo

Environmental and Geotechnical Consultants

555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2055
Page: ___ of ___

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): Picarnish/BTS
Recorder (signature required): [signature]
Sent to Laboratory (Name): C&T

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) / MTBE	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23) 22, 13, 9, 8, 7, 3, Other)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	Metals/pH	TOC	Total sulfide	NDMA	Cyanide	TOC	COMMENTS / NOTES
1	NKGW02	3/20/06	900			X		6		1	1	4	X	X	X	X			X		X					X	X		
2	NKGW05		938			X		6		1	1	4	X	X	X	X			X		X					X	X		
3	NKGW01		1028			X		6		1	1	4	X	X	X	X			X		X					X	X		
4	NKGW04		1122			X		6		1	1	4	X	X	X	X			X		X					X	X		
5	DUP032006 1A		1132			X		6		1	1	4	X	X	X	X			X		X					X	X		
6	LF66W105		1250			X			2	1		2			~~X~~		X		X		X	~~X~~ 2	X	X					
7	LF66W106		1340			X			2	1		45	X	X	X	X			X		X	X		~~X~~	X			X	
8	1349MW105		1440			X		6		1		6	X	X	X	X	X	X	X		X	X							
9	600GW107		1550			X		6	2	1		5	X	X	X	X	X				X	X	X	X	X				

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists (23** - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (**13** - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (**9** - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (**8** - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (**7** - As, Cr, Cd, Cu, Pb, Ni and Zn) (**3** - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY: [signature]	DATE: 3/21/06	RECEIVED BY: [signature]	DATE: 3/21/06
PRINT NAME: FIRM:	TIME: 1230	PRINT NAME: AARON CRENIER FIRM: Curtis Tompkins	TIME: 1230
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

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185679

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2107
Page: ____ of ____

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTS, John De Jong
Recorder (signature required):
Sent to Laboratory (Name): C+T

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260)	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	Cyanide	Metals Diss (23)	BTEX, MTBE				COMMENTS / NOTES
-10	LF01GW06	3/20/06	1430			X				1	1	1					X		X		X		X						
-11	LF02GW04		1550			X				3	3	3					X		X		X		X						MS/MSD
-12	LF01GW07		1340			X				1	1	1					X		X		X		X						
-13	LF01GW04		1300			X				1	1	1					X		X		X		X						
-14	LF01GW03		1205			X				1	1	1					X		X		X		X						
-15	LF01GW05		1120			X				1	1	1					X		X		X		X						
-16	LF02GW02		1035			X				1	1	1	•			•	X		X		X		X						
-17	LF10GW01		0900			X		3		1		1					X				X			X	X				
-18	TB032006 3A		—			X		2																					

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists (23** - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (**22** - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (**13** - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (**9** - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (**8** - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (**7** - As, Cr, Cd, Cu, Pb, Ni and Zn) (**3** - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY:	DATE: 3/21/06	RECEIVED BY:	DATE: 3/21/06
PRINT NAME: FIRM:	TIME: 1230	PRINT NAME: Aaron Greuler FIRM: Curtis+Tompkins	TIME: 1230
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

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CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. 0P 2108
Page: ___ of ___

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTS, John DeJong
Recorder (signature required): John DeJong
Sent to Laboratory (Name): ET

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) MTBE	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other) 14	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other) 14	TDS (160.1)	PAHs (8310)	TOC	BTEX MTBE	Total Solids 23	Metals Total 23	Diss. Metals 23	COMMENTS / NOTES
-19	LF55P100	3/21/06	0910			X		3		2		3				X	X	X			X				X	X		
-20	6105P01	↓	1010					3	2	2		3	X	X	X		X		X	X	X		X	X	X			
-21	6105P02		1030					3	2	2		3	X	X	X		X		X	X	X		X	X	X			
-22	TB032106 3A		—			X		2								X												

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (Other -

RELINQUISHED BY:	DATE: 3/21/06	RECEIVED BY:	DATE: 3/21/06
PRINT NAME: John DeJ. FIRM:	TIME: 1230	PRINT NAME: AARON GRENIER FIRM: Curtis Dauphins	TIME: 1230
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

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CURTIS & TOMPKINS, LTD. BERKELEY LOGIN CHANGE FORM

Reason for change: X Client Request By: J.Graber Date/Time: 3/22/06 12:22 Initials: SES

Login Review Data Review

Current Lab ID	Previous Lab ID	Client ID	Matrix	Add/Cancel	Analysis	Duedate
185679-018		TB0320063A	Water	Add	8260	3/31

Steven Stanley

From: "Joshua Graber" <jdgraber@treadwellrollo.com>
To: "Steve Stanley" <steve@ctberk.com>
Cc: "Carole Nuttall" <cnuttall@treadwellrollo.com>; "Gil Shenker" <gshenker@treadwellrollo.com>; "Greg Johnson" <gejohnson@treadwellrollo.com>; <bjones@blainetech.com>; <dataval@msn.com>
Sent: Wednesday, March 22, 2006 11:35 AM
Subject: RE: 2893.04.51 - C&T Login Summary (185679)

Please analyze TB0320063A (185679-018) for VOCs only.

Thanks!

Joshua D. Graber
Senior Project Manager / Scientist
Treadwell & Rollo, Inc.

****
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****

From: Steve Stanley [mailto:steve@ctberk.com]
Sent: Wednesday, March 22, 2006 11:33 AM
To: Joshua Graber
Cc: Carole Nuttall; Gil Shenker; Greg Johnson; bjones@blainetech.com; dataval@msn.com
Subject: 2893.04.51 - C&T Login Summary (185679)

NOTE: No analyis checked for sample TB0320063A (185679-018); this sample was placed on hold. Please advise ASAP if you need this sample analyzed.

C&T Login Summary for 185679

Project:

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 185679 Date Received: 3-21-06 Number of Coolers: 5
Client: Treadwell + Rollo Project: Presidio

A. Preliminary Examination Phase
Date Opened: 3-21-06 By (print): Tray Windsor (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES (NO)
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... (YES) NO
   How many and where? 1 per over cooler lip Seal date: 3-21-06 Seal name: Illegible
3. Were custody seals unbroken and intact at the date and time of arrival? ..... (YES) NO
4. Were custody papers dry and intact when received? ..... (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO
6. Did you sign the custody papers in the appropriate place? ..... (YES) NO
7. Was project identifiable from custody papers? ..... (YES) NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... (YES) NO
   Type of ice: Wet Temperature: 3.2 2.6 2.8 2.4 2.3

B. Login Phase
Date Logged In: 3-21-06 By (print): Tray Windsor (sign) [signature]

1. Describe type of packing in cooler: In ziploc type bags
2. Did all bottles arrive unbroken? ..... (YES) NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... (YES) NO
4. Did bottle labels agree with custody papers? ..... YES (NO)
5. Were appropriate containers used for the tests indicated? ..... (YES) NO
6. Were correct preservatives added to samples? ..... (YES) NO
7. Was sufficient amount of sample sent for tests indicated? ..... (YES) NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... (YES) NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:
B4 - Sample -021 ID on COC = 6105P02 labels = LF10 5P02
↓ -022 ↓ ↓ ↓ ↓ TB TRW 3-21-06

TOTAL VOLATILE HYDROCARBONS/

BTXE

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	NKGW02	Batch#:	111486
Lab ID:	185679-001	Sampled:	03/20/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	107	65-135
Bromofluorobenzene (FID)	107	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	NKGW05	Batch#:	111486
Lab ID:	185679-002	Sampled:	03/20/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	65-135
Bromofluorobenzene (FID)	100	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	NKGW01	Batch#:	111486
Lab ID:	185679-003	Sampled:	03/20/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	65-135
Bromofluorobenzene (FID)	98	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	NKGW04	Batch#:	111486
Lab ID:	185679-004	Sampled:	03/20/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	107	65-135
Bromofluorobenzene (FID)	109	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	DUP0320061A	Batch#:	111486
Lab ID:	185679-005	Sampled:	03/20/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	107	65-135
Bromofluorobenzene (FID)	112	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1349MW105	Batch#:	111486
Lab ID:	185679-008	Sampled:	03/20/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	113	65-135
Bromofluorobenzene (FID)	116	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	600GW107	Batch#:	111486
Lab ID:	185679-009	Sampled:	03/20/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	110	65-135
Bromofluorobenzene (FID)	107	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8021B
Field ID:	LF10GW01	Batch#:	111486
Lab ID:	185679-017	Sampled:	03/20/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL
MTBE	3.6 C	2.0
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
Xylene (total)	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (PID)	81	65-135
Bromofluorobenzene (PID)	86	65-135

C= Presence confirmed, but RPD between columns exceeds 40%
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	610SP01	Batch#:	111486
Lab ID:	185679-020	Sampled:	03/21/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	83 Y	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	110	65-135	EPA 8015B
Bromofluorobenzene (FID)	116	65-135	EPA 8015B
Trifluorotoluene (PID)	90	65-135	EPA 8021B
Bromofluorobenzene (PID)	93	65-135	EPA 8021B

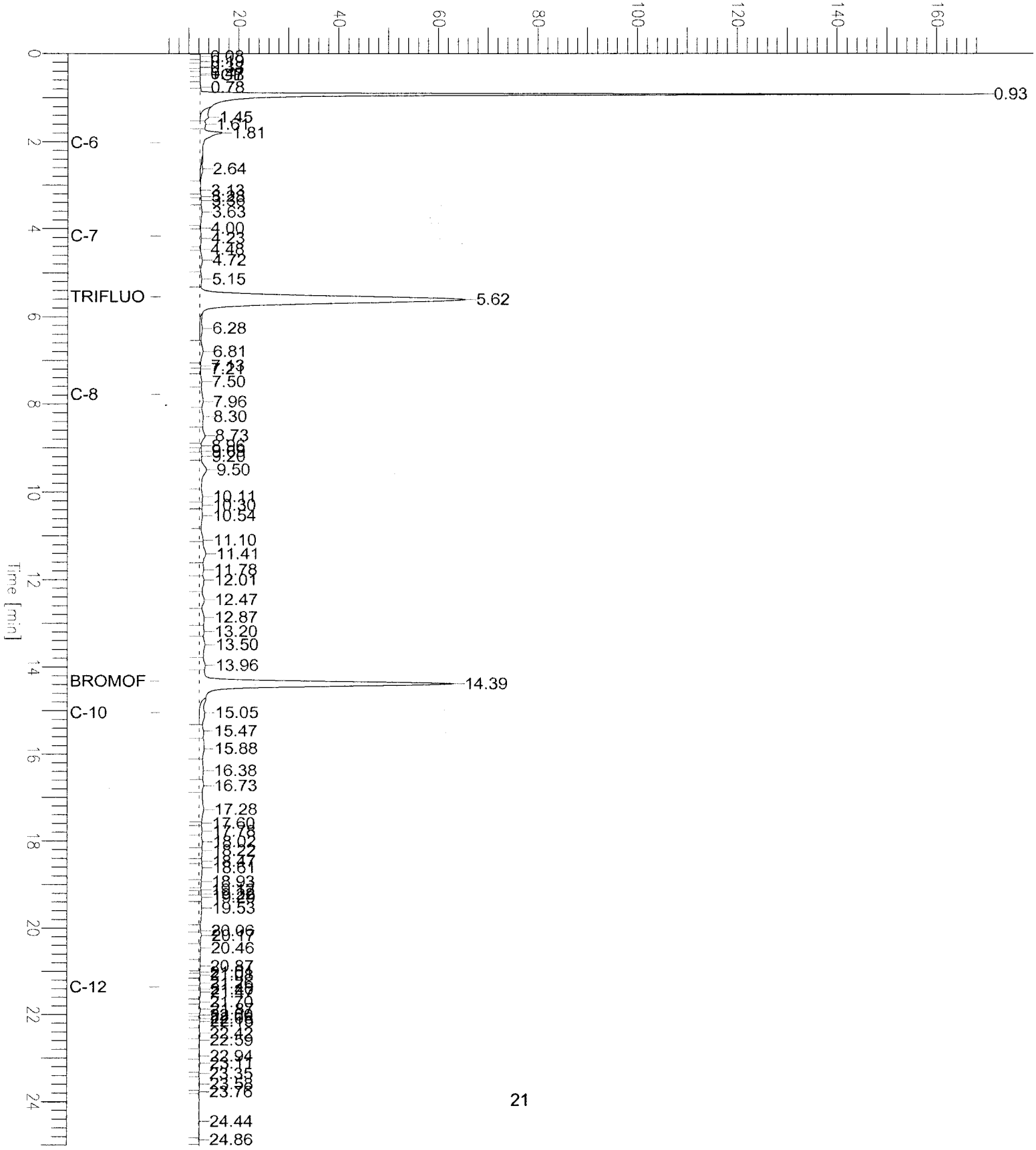
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Chromatogram

Sample Name : 185679-020,111486,mbtxe+tvh
FileName : G:\GC05\DATA\080G010.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 25.00 min
Scale Factor: 1.0 Plot Offset: 4 mV

Sample #: a1.3 Page 1 of 1
Date : 3/21/06 07:28 PM
Time of Injection: 3/21/06 07:03 PM
Low Point : 4.35 mV High Point : 169.47 mV
Plot Scale: 165.1 mV

610SP01



Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	610SP02	Batch#:	111486
Lab ID:	185679-021	Sampled:	03/21/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	66 Y	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	108	65-135	EPA 8015B
Bromofluorobenzene (FID)	113	65-135	EPA 8015B
Trifluorotoluene (PID)	91	65-135	EPA 8021B
Bromofluorobenzene (PID)	93	65-135	EPA 8021B

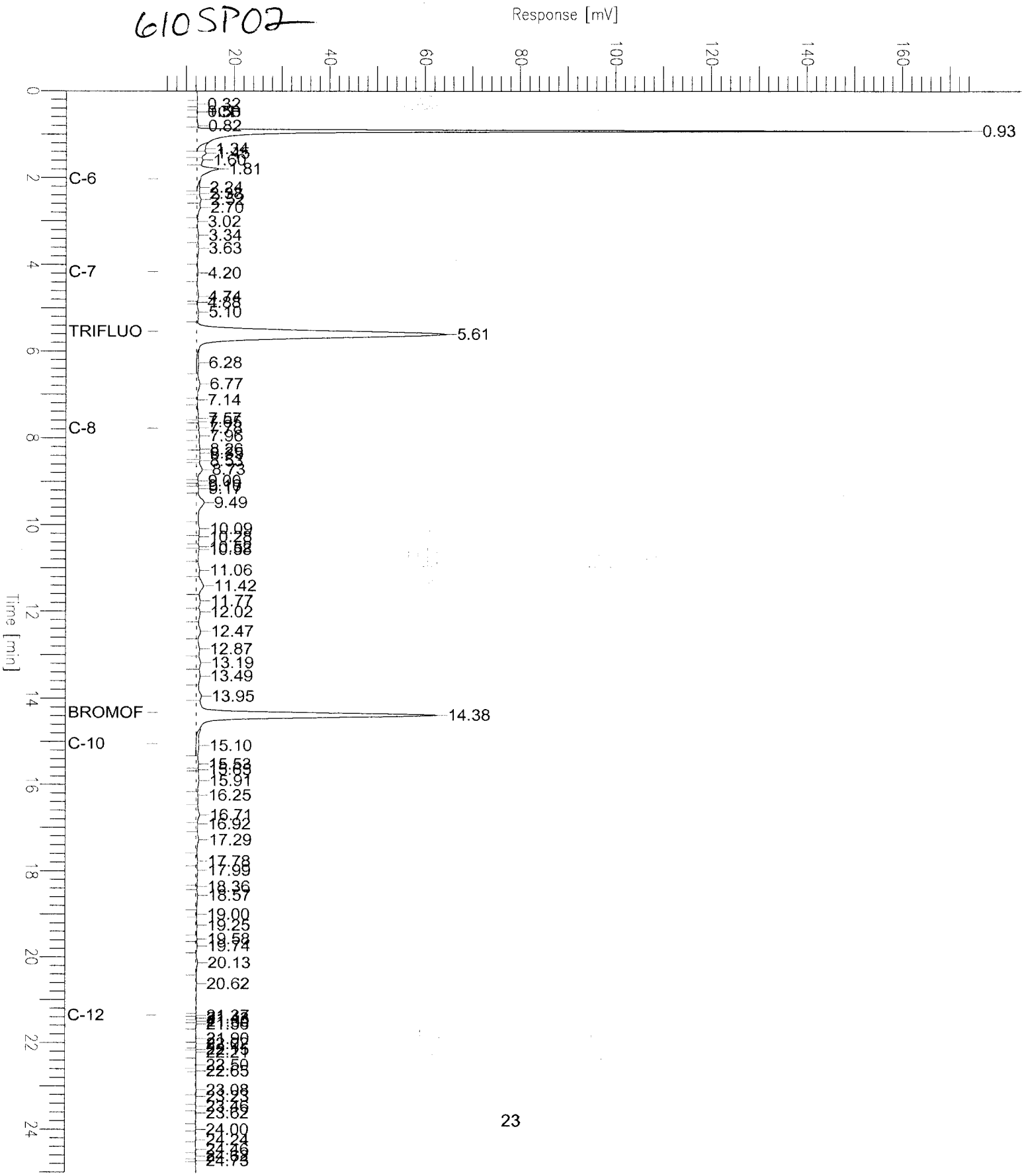
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Chromatogram

Sample Name : 185679-021,111486,mbtxe+tvh
FileName : G:\GC05\DATA\080G011.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 25.00 min
Scale Factor: 1.0 Plot Offset: 4 mV

Sample #: a1.3 Page 1 of 1
Date : 3/21/06 08:00 PM
Time of Injection: 3/21/06 07:35 PM
Low Point : 4.08 mV High Point : 174.74 mV
Plot Scale: 170.7 mV

610SP02



Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332256	Batch#:	111486
Matrix:	Water	Analyzed:	03/21/06
Units:	ug/L		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID).	105	65-135	EPA 8015B
Bromofluorobenzene (FID)	101	65-135	EPA 8015B
Trifluorotoluene (PID)	89	65-135	EPA 8021B
Bromofluorobenzene (PID)	86	65-135	EPA 8021B

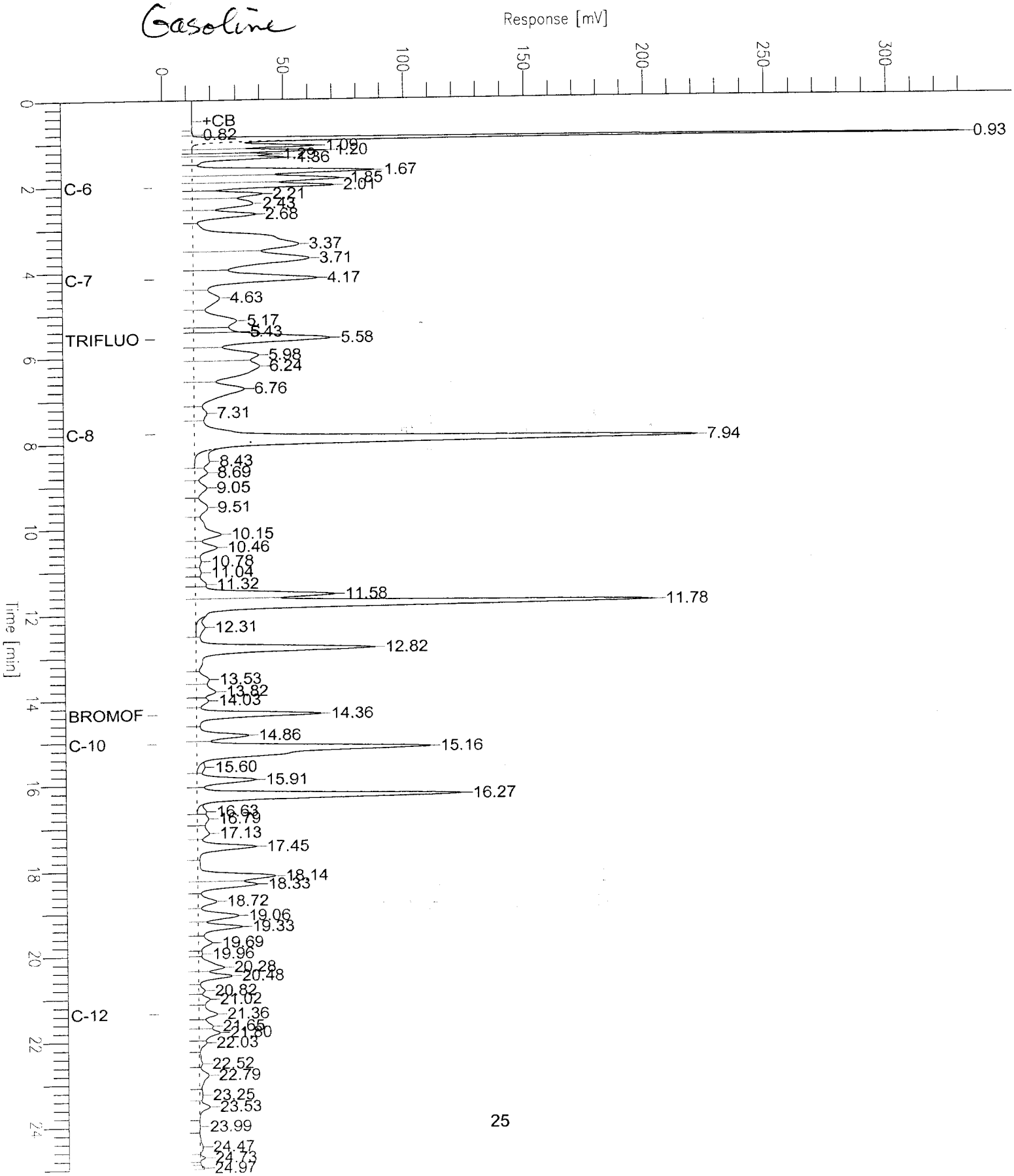
ND= Not Detected
RL= Reporting Limit

Chromatogram

Sample Name : ccv/lcs,qc332258,111486,s29869,5/5000
FileName : G:\GC05\DATA\080G003.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 25.00 min
Scale Factor: 1.0 Plot Offset: -4 mV

Sample #:
Date : 3/21/06 03:06 PM
Time of Injection: 3/21/06 09:20 AM
Low Point : -3.53 mV High Point : 332.18 mV
Plot Scale: 335.7 mV

Gasoline



Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8021B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC332257	Batch#:	111486
Matrix:	Water	Analyzed:	03/21/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
MTBE	20.00	20.53	103	65-135
Benzene	20.00	20.41	102	65-135
Toluene	20.00	20.56	103	65-135
Ethylbenzene	20.00	20.52	103	65-135

Surrogate	%REC	Limits
Trifluorotoluene (PID)	90	65-135
Bromofluorobenzene (PID)	90	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC332258	Batch#:	111486
Matrix:	Water	Analyzed:	03/21/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	1,923	96	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	128	65-135
Bromofluorobenzene (FID)	114	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	111486
MSS Lab ID:	185667-002	Sampled:	03/17/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Analyzed:	03/21/06
Diln Fac:	1.000		

Type: MS Lab ID: QC332342

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	119.2	2,000	1,989	93	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	131	65-135
Bromofluorobenzene (FID)	121	65-135

Type: MSD Lab ID: QC332343

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,001	94	65-135	1	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	130	65-135
Bromofluorobenzene (FID)	120	65-135

RPD= Relative Percent Difference

Confirmation Report for 185679 MBTXE Water
Curtis & Tompkins Laboratories

Units: ug/L

Lab ID	Client ID	Analyte	Result	Confirmation	RPD	%D
185679-017	LF10GW01	MTBE	3.586 C	1.982	58	-45

C=RPD between columns exceeds 40%

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185679 GCVOA Water: EPA 8015B

Inst : GC05
Calnum : 315497353001
Units : ng

Name : tvh
Date : 11-DEC-2005 10:16
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	345_003	315497353003	tvh 1	11-DEC-2005 10:16	S1367 (1000X), S1895 (5000X)
L2	345_004	315497353004	tvh 2	11-DEC-2005 10:48	S1368 (1000X), S1895 (5000X)
L3	345_005	315497353005	tvh 3	11-DEC-2005 11:19	S1369 (1000X), S1895 (5000X)
L4	345_006	315497353006	tvh 4	11-DEC-2005 11:51	S1370 (2000X), S1895 (5000X)
L5	345_007	315497353007	tvh 5	11-DEC-2005 12:23	S1370 (1000X), S1895 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	G	1693.0	1307.5	1282.8	1171.1	1217.8	AVRG		7.49E-4		1334.5	16	0.995	20	

30

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

315497353001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185679 GCVOA Water
EPA 8015B

Inst : GC05 Name : tvh
Calnum : 315497353001 Cal Date: 11-DEC-2005

ICV 315497353010 (345_010 11-DEC-2005) stds: S2241 (1000X), S1895 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	G	10000	9115	ng	-9	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185679 GCVOA Water: EPA 8021B

Inst : GC05
Calnum : 316062601001
Units : ng

Name : MBTXE
Date : 12-FEB-2006 14:34
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	043_005	316062601005	btxe 1	12-FEB-2006 14:34	S2368 (1000X), S2543 (5000X)
L2	043_006	316062601006	mtbe 1	12-FEB-2006 15:06	S2367 (1250X), S2543 (5000X)
L3	043_007	316062601007	mbtxe 2	12-FEB-2006 15:38	S2367 (500X), S2543 (5000X)
L4	043_008	316062601008	mbtxe 3	12-FEB-2006 16:10	S2367 (125X), S2543 (5000X)
L5	043_009	316062601009	mbtxe 4	12-FEB-2006 16:42	S2366 (1000X), S2543 (5000X)
L6	043_010	316062601010	mbtxe 5	12-FEB-2006 17:13	S2366 (500X), S2543 (5000X)
L7	043_011	316062601011	mbtxe 6	12-FEB-2006 17:45	S2366 (250X), S2543 (5000X)
L8	043_012	316062601012	mtbe 7	12-FEB-2006 18:17	S1492 (500X), S2543 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	%RSD	r^2 MnR^2	MxRSD	Flg
MTBE	H		500.50	507.40	495.60	549.62	570.21	548.04	496.84	AVRG		0.00191		524.03	6	0.995	20	
Benzene	H	1636.0		1390.9	1369.3	1430.7	1444.7	1442.5		AVRG		6.89E-4		1452.4	7	0.995	20	
Toluene	H	1558.0		1351.6	1324.7	1322.4	1342.2	1335.2		AVRG		7.29E-4		1372.3	7	0.995	20	
Ethylbenzene	H	1196.0		1171.3	1134.0	1149.3	1152.6	1141.2		AVRG		8.64E-4		1157.4	2	0.995	20	
m,p-Xylenes	H	1636.0		1404.5	1425.6	1414.8	1407.6	1395.4		AVRG		6.91E-4		1447.3	6	0.995	20	
o-Xylene	H	1328.0		1159.0	1154.6	1142.8	1149.6	1128.8		AVRG		8.50E-4		1177.1	6	0.995	20	
MTBE	I		134.10	153.84	165.11	209.16	228.42	230.46	215.86	AVRG		0.00524		190.99	20	0.995	20	
Benzene	I	424.80		443.80	505.67	580.08	602.82	619.99		AVRG		0.00189		529.53	16	0.995	20	
Toluene	I	342.00		413.68	471.62	538.20	562.15	579.48		AVRG		0.00206		484.52	19	0.995	20	
Ethylbenzene	I	315.26		373.81	422.87	485.20	502.89	521.53		AVRG		0.00229		436.93	19	0.995	20	
m,p-Xylenes	I	463.32		427.11	496.13	565.88	587.17	611.29		AVRG		0.00190		525.15	14	0.995	20	
o-Xylene	I	306.48		357.56	411.56	471.31	495.69	514.60		AVRG		0.00235		426.20	19	0.995	20	

32

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

316062601001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185679 GCVOA Water
EPA 8021B

Inst : GC05 Name : MBTXE
Calnum : 316062601001 Cal Date: 12-FEB-2006

ICV 316062601015 (043_015 12-FEB-2006) stds: S2157 (1000X), S2543 (5000X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
MTBE	H	100.0	84.56	ng	-15	15	
Benzene	H	100.0	100.9	ng	1	15	
Toluene	H	100.0	101.7	ng	2	15	
Ethylbenzene	H	100.0	100.4	ng	0	15	
m,p-Xylenes	H	200.0	205.6	ng	3	15	
o-Xylene	H	100.0	101.2	ng	1	15	
MTBE	I	100.0	87.71	ng	-12	15	
Benzene	I	100.0	111.3	ng	11	15	
Toluene	I	100.0	108.2	ng	8	15	
Ethylbenzene	I	100.0	107.9	ng	8	15	
m,p-Xylenes	I	200.0	217.8	ng	9	15	
o-Xylene	I	100.0	103.0	ng	3	15	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185679 GCVOA Water: EPA 8015B / EPA 8021B

Inst : GC05
Calnum : 316013420001
Units : ng

Name : TFT/BFB
Date : 09-JAN-2006 12:00
X Axis : R

Reviewer: MCH
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	009_006	316013420006	tft/bfb 1	09-JAN-2006 12:00	S1889 (5000X)
L2	009_007	316013420007	tft/bfb 2	09-JAN-2006 12:32	S1890 (5000X)
L3	009_008	316013420008	tft/bfb 3	09-JAN-2006 13:04	S1891 (5000X)
L4	009_009	316013420009	tft/bfb 4	09-JAN-2006 13:42	S1892 (5000X)
L5	009_010	316013420010	tft/bfb 5	09-JAN-2006 14:13	S1893 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	G	1339.7	1422.7	1133.8	1120.9	1121.5	AVRG		8.15E-4		1227.7	12	0.995	20	
Bromofluorobenzene (FID)	G	858.52	958.51	732.70	751.93	754.50	AVRG		0.00123		811.23	12	0.995	20	
Trifluorotoluene (PID)	H	455.13	504.69	437.53	455.86	452.98	AVRG		0.00217		461.24	6	0.995	20	
Bromofluorobenzene (PID)	H	901.33	1032.5	919.64	956.84	945.96	AVRG		0.00105		951.26	5	0.995	20	
Trifluorotoluene (PID)	I	138.14	152.07	139.19	147.34	149.65	AVRG		0.00688		145.28	4	0.995	20	
Bromofluorobenzene (PID)	I	287.49	334.84	315.38	332.14	331.18	AVRG		0.00312		320.20	6	0.995	20	

34

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

316013420001

CURTIS & TOMPKINS SPIKE USER REPORT FOR 185679 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC05 Run Name: QC332257 IDF : 1.0
Seqnum : 316115698002.1 File : 080_002 Time : 21-MAR-2006 08:49
Standards: S2915 (1000X), S2543 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
MTBE	H	316062601001	12-FEB-2006	537.80	100.0	100	ng	3	15	
MTBE	I	316062601001	12-FEB-2006	166.88	100.0	87	ng	-13	15	
Benzene	H	316062601001	12-FEB-2006	1482.2	100.0	100	ng	2	15	
Benzene	I	316062601001	12-FEB-2006	505.60	100.0	95	ng	-5	15	
Toluene	H	316062601001	12-FEB-2006	1410.7	100.0	100	ng	3	15	
Toluene	I	316062601001	12-FEB-2006	453.51	100.0	94	ng	-6	15	
Ethylbenzene	H	316062601001	12-FEB-2006	1187.6	100.0	100	ng	3	15	
Ethylbenzene	I	316062601001	12-FEB-2006	404.42	100.0	93	ng	-7	15	
m,p-Xylenes	H	316062601001	12-FEB-2006	1494.5	100.0	100	ng	3	15	
m,p-Xylenes	I	316062601001	12-FEB-2006	473.49	100.0	90	ng	-10	15	
o-Xylene	H	316062601001	12-FEB-2006	1211.5	100.0	100	ng	3	15	
o-Xylene	I	316062601001	12-FEB-2006	389.40	100.0	91	ng	-9	15	
Trifluorotoluene (FID)	G	316013420001	09-JAN-2006	1324.3	450.0	490	ng	8	15	
Bromofluorobenzene (FID)	G	316013420001	09-JAN-2006	843.89	450.0	470	ng	4	15	
Trifluorotoluene (PID)	H	316013420001	09-JAN-2006	417.38	450.0	410	ng	-10	15	
Trifluorotoluene (PID)	I	316013420001	09-JAN-2006	136.78	450.0	420	ng	-6	15	
Bromofluorobenzene (PID)	H	316013420001	09-JAN-2006	859.13	450.0	410	ng	-10	15	
Bromofluorobenzene (PID)	I	316013420001	09-JAN-2006	302.16	450.0	420	ng	-6	15	

CURTIS & TOMPKINS SPIKE USER REPORT FOR 185679 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC05 Run Name: QC332258 IDF : 1.0
Seqnum : 316115698003.2 File : 080_003 Time : 21-MAR-2006 09:20
Standards: S2869 (1000X), S2543 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	G	315497353001	11-DEC-2005	1282.9	10000	9600	ng	-4	15	
Trifluorotoluene (FID)	G	316013420001	09-JAN-2006	1573.1	450.0	580	ng	**28**	15	c+
Bromofluorobenzene (FID)	G	316013420001	09-JAN-2006	924.71	450.0	510	ng	14	15	
Trifluorotoluene (PID)	H	316013420001	09-JAN-2006	519.64	450.0	510	ng	13	15	
Trifluorotoluene (PID)	I	316013420001	09-JAN-2006	134.18	450.0	420	ng	-8	15	
Bromofluorobenzene (PID)	H	316013420001	09-JAN-2006	866.10	450.0	410	ng	-9	15	
Bromofluorobenzene (PID)	I	316013420001	09-JAN-2006	335.52	450.0	470	ng	5	15	

IN-House
QC Limits

TFT- FID- H_2O:

69-137% Rec.

3/31/2

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185679 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC05 Run Name: btxe IDF : 1.0
Seqnum : 316115698012 File : 080_012 Time : 21-MAR-2006 20:06
Standards: S2915 (666.7X), S2543 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Trifluorotoluene (FID)	G	316013420001	09-JAN-2006	1309.0	450.0	479.8	ng	7	15	
Bromofluorobenzene (FID)	G	316013420001	09-JAN-2006	856.50	450.0	475.1	ng	6	15	
MTBE	H	316062601001	12-FEB-2006	546.07	150.0	156.3	ng	4	15	
Benzene	H	316062601001	12-FEB-2006	1501.1	150.0	155.0	ng	3	15	
Toluene	H	316062601001	12-FEB-2006	1411.3	150.0	154.3	ng	3	15	
Ethylbenzene	H	316062601001	12-FEB-2006	1214.4	150.0	157.4	ng	5	15	
m,p-Xylenes	H	316062601001	12-FEB-2006	1494.1	150.0	154.9	ng	3	15	
o-Xylene	H	316062601001	12-FEB-2006	1223.2	150.0	155.9	ng	4	15	
Trifluorotoluene (PID)	H	316013420001	09-JAN-2006	429.78	450.0	419.3	ng	-7	15	
Bromofluorobenzene (PID)	H	316013420001	09-JAN-2006	869.36	450.0	411.3	ng	-9	15	
MTBE	I	316062601001	12-FEB-2006	174.28	150.0	136.9	ng	-9	15	
Benzene	I	316062601001	12-FEB-2006	525.60	150.0	148.9	ng	-1	15	
Toluene	I	316062601001	12-FEB-2006	479.80	150.0	148.5	ng	-1	15	
Ethylbenzene	I	316062601001	12-FEB-2006	428.22	150.0	147.0	ng	-2	15	
m,p-Xylenes	I	316062601001	12-FEB-2006	500.00	150.0	142.8	ng	-5	15	
o-Xylene	I	316062601001	12-FEB-2006	419.43	150.0	147.6	ng	-2	15	
Trifluorotoluene (PID)	I	316013420001	09-JAN-2006	139.64	450.0	432.5	ng	-4	15	
Bromofluorobenzene (PID)	I	316013420001	09-JAN-2006	313.41	450.0	440.4	ng	-2	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185679 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC05 Run Name: tvh IDF : 1.0
Seqnum : 316115698014 File : 080_014 Time : 21-MAR-2006 21:09
Standards: S2869 (666.7X), S2543 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	G	315497353001	11-DEC-2005	1231.6	15000	13840	ng	-8	15	
Trifluorotoluene (FID)	G	316013420001	09-JAN-2006	1562.0	450.0	572.5	ng	**27**	15	c+
Bromofluorobenzene (FID)	G	316013420001	09-JAN-2006	931.82	450.0	516.9	ng	15	15	
Trifluorotoluene (PID)	H	316013420001	09-JAN-2006	558.22	450.0	544.6	ng	**21**	15	c+
Bromofluorobenzene (PID)	H	316013420001	09-JAN-2006	854.71	450.0	404.3	ng	-10	15	
Trifluorotoluene (PID)	I	316013420001	09-JAN-2006	182.04	450.0	563.9	ng	**25**	15	c+
Bromofluorobenzene (PID)	I	316013420001	09-JAN-2006	343.22	450.0	482.3	ng	7	15	

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185679 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC05 Run Name: tvh IDF : 1.0
Seqnum : 316115698015 File : 080_015 Time : 21-MAR-2006 21:41
Standards: S2869 (666.7X), S2543 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	G	315497353001	11-DEC-2005	1228.7	15000	13810	ng	-8	15	
Trifluorotoluene (FID)	G	316013420001	09-JAN-2006	1548.0	450.0	567.4	ng	**26**	15	c+
Bromofluorobenzene (FID)	G	316013420001	09-JAN-2006	922.95	450.0	512.0	ng	14	15	
Trifluorotoluene (PID)	H	316013420001	09-JAN-2006	560.34	450.0	546.7	ng	**21**	15	c+
Bromofluorobenzene (PID)	H	316013420001	09-JAN-2006	837.69	450.0	396.3	ng	-12	15	
Trifluorotoluene (PID)	I	316013420001	09-JAN-2006	185.30	450.0	574.0	ng	**28**	15	c+
Bromofluorobenzene (PID)	I	316013420001	09-JAN-2006	343.28	450.0	482.4	ng	7	15	

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185679 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC05 Run Name: tvh IDF : 1.0
Seqnum : 316115698026 File : 080_026 Time : 22-MAR-2006 03:29
Standards: S2869 (2000X), S2543 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	G	315497353001	11-DEC-2005	1261.0	5000	4725	ng	-6	15	
Trifluorotoluene (FID)	G	316013420001	09-JAN-2006	1555.5	450.0	570.2	ng	**27**	15	c+
Bromofluorobenzene (FID)	G	316013420001	09-JAN-2006	883.89	450.0	490.3	ng	9	15	
Trifluorotoluene (PID)	H	316013420001	09-JAN-2006	475.84	450.0	464.2	ng	3	15	
Bromofluorobenzene (PID)	H	316013420001	09-JAN-2006	854.64	450.0	404.3	ng	-10	15	
Trifluorotoluene (PID)	I	316013420001	09-JAN-2006	168.23	450.0	521.1	ng	**16**	15	c+
Bromofluorobenzene (PID)	I	316013420001	09-JAN-2006	324.25	450.0	455.7	ng	1	15	

+=high bias c=CCV

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 11-DEC-2005

Sequence: 315497353 Instrument: GC05
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #5 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC SPK uL	VL	pH	Stds Used	>LR
001	345_001	X	ib			11-DEC-2005 09:13	1.0				1	
002	345_002	X	ib			11-DEC-2005 09:44	1.0				1	
003	345_003	ICAL	tvh 1			11-DEC-2005 10:16	1.0				2 1 pass	
004	345_004	ICAL	tvh 2			11-DEC-2005 10:48	1.0				3 1	
005	345_005	ICAL	tvh 3			11-DEC-2005 11:19	1.0				4 1	
006	345_006	ICAL	tvh 4			11-DEC-2005 11:51	1.0				5 1	
007	345_007	ICAL	tvh 5			11-DEC-2005 12:23	1.0				5 1	
008	345_008	X	ib			11-DEC-2005 12:55	1.0				1	
009	345_009	X	tvh			11-DEC-2005 13:26	1.0	5000			6 1 Not used	
010	345_010	ICV	tvh			11-DEC-2005 13:58	1.0	5000			7 1 pass	
011	345_011	X	ib			11-DEC-2005 14:30	1.0				1	
012	345_012	X	carbmark			11-DEC-2005 15:02	1.0				8 9 1	

Stds used: 1=S1895 2=S1367 3=S1368 4=S1369 5=S1370 6=S2152 7=S2241 8=S1645 9=S1646

Analyst: Date: 12/13/05

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316013420 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 09-JAN-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL (LEVEL)	pH	Stds Used	>LR
001	009_001	X	ib			09-JAN-2006 07:40	1.0						1	
002	009_002	X	mbtxe		Water	09-JAN-2006 08:11	1.0						2 1 Not used	
003	009_003	X	gas		Water	09-JAN-2006 08:43	1.0						3 1	
004	009_004	X	ib			09-JAN-2006 09:14	1.0						1	
005	009_005	X	ib			09-JAN-2006 11:29	1.0						1	
006	009_006	ICAL	tft/bfb 1			09-JAN-2006 12:00	1.0						4 PASS/USE	
007	009_007	ICAL	tft/bfb 2			09-JAN-2006 12:32	1.0						5	
008	009_008	ICAL	tft/bfb 3			09-JAN-2006 13:04	1.0						6	
009	009_009	ICAL	tft/bfb 4			09-JAN-2006 13:42	1.0						7	
010	009_010	ICAL	tft/bfb 5			09-JAN-2006 14:13	1.0						8	
011	009_011	X	ib			09-JAN-2006 15:31	1.0						1	
012	009_012	CCV/LCS	QC323487	109331	Soil	09-JAN-2006 16:03	1.0			5000			2 1 PASS/USE	
013	009_013	CCV/LCS	QC323488	109331	Soil	09-JAN-2006 16:35	1.0		1	5000			3 1	
014	009_014	BLANK	QC323486	109331	Soil	09-JAN-2006 17:06	1.0	4		5000			1 ≤ 1/2 RL	
015	009_015	MSS	184210-025	109331	Soil	09-JAN-2006 18:44	1.0	1		5000			1	
016	009_016	MS	QC323558	109331	Soil	09-JAN-2006 19:15	1.0		2	5000			3 1 PASS/USE	
017	009_017	MSD	QC323559	109331	Soil	09-JAN-2006 19:47	1.0		2	5000			3 1	
018	009_018	SAMPLE	184210-019	109331	Soil	09-JAN-2006 20:18	1.0			5000			1	
019	009_019	SAMPLE	184210-020	109331	Soil	09-JAN-2006 20:50	1.0			5000			1	
020	009_020	SAMPLE	184210-021	109331	Soil	09-JAN-2006 21:22	1.0			5000			1	
021	009_021	SAMPLE	184210-022	109331	Soil	09-JAN-2006 21:53	1.0			5000			1	
022	009_022	CCV	btxe	109331		09-JAN-2006 22:25	1.0			5000			2 1 PASS/USE	
023	009_023	CCV	btxe	109331		09-JAN-2006 22:56	1.0			5000			2 1	
024	009_024	CCV	tvh	109331		09-JAN-2006 23:28	1.0			5000			3 1	
025	009_025	CCV	tvh	109331		09-JAN-2006 23:59	1.0			5000			3 1	
026	009_026	SAMPLE	184210-023	109331	Soil	10-JAN-2006 00:31	1.0			5000			1	
027	009_027	SAMPLE	184210-024	109331	Soil	10-JAN-2006 01:03	1.0		6	5000			1	
028	009_028	SAMPLE	184210-024	109331	Soil	10-JAN-2006 07:38	1.0			5000			1	
029	009_029	SAMPLE	184210-026	109331	Soil	10-JAN-2006 08:09	1.0	1	2	5000			1	1:BR4FBZ=1175.89
030	009_030	SAMPLE	184210-027	109331	Soil	10-JAN-2006 08:41	1.0			5000			1	

Stds used: 1=S1895 2=S2369 3=S2400 4=S1889 5=S1890 6=S1891 7=S1892 8=S1893

Analyst: [signature] Date: 01/10/06
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Sent used in QC EM 128974-M104164

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316013420 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 09-JAN-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL (LEVEL)	pH	Stds Used	>LR
031	009_031	CCV	btxe	109331		10-JAN-2006 09:12	1.0			5000			2 1 PASS/USE	
032	009_032	CCV	tvh	109331		10-JAN-2006 09:44	1.0			5000			3 1	

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Stds used: 1=S1895 2=S2369 3=S2400 4=S1889 5=S1890 6=S1891 7=S1892 8=S1893

Analyst: [signature] Date: 01/10/06
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Notebook No. BL 2266

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316062601 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 12-FEB-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC SPK uL	VL	pH	Stds Used	>LR
001	043_001	X	ib			12-FEB-2006 11:21	1.0				1	
002	043_002	X	mbtxe check			12-FEB-2006 11:52	1.0				2 1 Not used	
003	043_003	X	ib			12-FEB-2006 12:24	1.0				1	
004	043_004	X	ib			12-FEB-2006 14:02	1.0				1	
005	043_005	ICAL	btxe 1			12-FEB-2006 14:34	1.0				3 1 Pass/use	
006	043_006	ICAL	mtbe 1			12-FEB-2006 15:06	1.0				4 1	
007	043_007	ICAL	mbtxe 2			12-FEB-2006 15:38	1.0				4 1	
008	043_008	ICAL	mbtxe 3			12-FEB-2006 16:10	1.0				4 1	
009	043_009	ICAL	mbtxe 4			12-FEB-2006 16:42	1.0				5 1	
010	043_010	ICAL	mbtxe 5			12-FEB-2006 17:13	1.0				5 1	
011	043_011	ICAL	mbtxe 6			12-FEB-2006 17:45	1.0				5 1	
012	043_012	ICAL	mtbe 7			12-FEB-2006 18:17	1.0				6 1	
013	043_013	X	ib			12-FEB-2006 18:49	1.0				1	
014	043_014	X	mbtxe			12-FEB-2006 19:21	1.0				7 1 Not used	
015	043_015	ICV	mbtxe			12-FEB-2006 19:53	1.0	5000			7 1 Pass/use	

Stds used: 1=S2543 2=S2650 3=S2368 4=S2367 5=S2366 6=S1492 7=S2157

Analyst: [signature] Date: 02/13/06

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Signed [signature] Date 2/13/06

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Notebook No. BK 2266

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316115698 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 21-MAR-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv13

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	080_001	X	ib			21-MAR-2006 08:18	1.0					1	
002	080_002	CCV/LCS	QC332257	111486	Water	21-MAR-2006 08:49	1.0		5000			2 1 PASS	
003	080_003	CCV/LCS	QC332258	111486	Water	21-MAR-2006 09:20	1.0		5000			3 1 ↓	
004	080_004	BLANK	QC332256	111486	Water	21-MAR-2006 09:52	1.0	2	5000			1 < 1/2 RL	
005	080_005	MS	QC332342	111486	Water	21-MAR-2006 12:59	1.0		5000	A	7.0	3 1 PASS	
006	080_006	MSD	QC332343	111486	Water	21-MAR-2006 13:30	1.0		5000			3 1 ↓	
007	080_007	MSS	185667-002	111486	Water	21-MAR-2006 14:02	1.0	1	5000			1	
008	080_008	SAMPLE	185667-001	111486	Water	21-MAR-2006 14:35	1.0		5000		↓	1	
009	080_009	SAMPLE	185679-017	111486	Water	21-MAR-2006 18:31	1.0		5000		1.3	1	
010	080_010	SAMPLE	185679-020	111486	Water	21-MAR-2006 19:03	1.0	1	5000			1	
011	080_011	SAMPLE	185679-021	111486	Water	21-MAR-2006 19:35	1.0	1	5000	↓	↓	1	
012	080_012	CCV	btxe	111486		21-MAR-2006 20:06	1.0		5000			2 1 PASS	
013	080_013	CCV	btxe	111486		21-MAR-2006 20:38	1.0		5000			2 1	
014	080_014	CCV	tvh	111486		21-MAR-2006 21:09	1.0		5000			3 1	
015	080_015	CCV	tvh	111486		21-MAR-2006 21:41	1.0		5000			3 1 ↓	
016	080_016	SAMPLE	185679-001	111486	Water	21-MAR-2006 22:13	1.0	1	5000	A	1.3	1	
017	080_017	SAMPLE	185679-002	111486	Water	21-MAR-2006 22:44	1.0	1	5000		1.6	1	
018	080_018	SAMPLE	185679-003	111486	Water	21-MAR-2006 23:16	1.0	1	5000		1.3	1	
019	080_019	SAMPLE	185679-004	111486	Water	21-MAR-2006 23:48	1.0	1	5000			1	
020	080_020	SAMPLE	185679-005	111486	Water	22-MAR-2006 00:20	1.0	1	5000			1	
021	080_021	SAMPLE	185679-008	111486	Water	22-MAR-2006 00:51	1.0	1	5000		↓	1	
022	080_022	SAMPLE	185679-009	111486	Water	22-MAR-2006 01:23	1.0	1	5000		1.6	1	
023	080_023	SAMPLE	185693-001	111486	Water	22-MAR-2006 01:54	1.0		5000		1.3	1	
024	080_024	SAMPLE	185693-002	111486	Water	22-MAR-2006 02:26	1.0		5000		1.0	1	
025	080_025	SAMPLE	185693-003	111486	Water	22-MAR-2006 02:57	1.0		5000	↓	1.3	1	
026	080_026	CCV	tvh	111486		22-MAR-2006 03:29	1.0		5000			3 1 PASS	
027	080_027	CCV	tvh	111486		22-MAR-2006 04:00	1.0		5000			3 1 ↓	

Stds used: 1=S2543 2=S2915 3=S2869

Analyst: TJP Date: 3/22/06

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Julian J. Perez 3/22/06

Signed: Julian J. Perez

Date: 3/22/06

Read and Understood By

Signed: Michael Bryant

Date: 3/22/06

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REPORTING SUMMARY FOR 185679 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185679-001	Gasoline C7-C12	GC05	G	03/21/06 22:13
185679-001	Trifluorotoluene (FID)	GC05	G	03/21/06 22:13
185679-001	Bromofluorobenzene (FID)	GC05	G	03/21/06 22:13
185679-002	Gasoline C7-C12	GC05	G	03/21/06 22:44
185679-002	Trifluorotoluene (FID)	GC05	G	03/21/06 22:44
185679-002	Bromofluorobenzene (FID)	GC05	G	03/21/06 22:44
185679-003	Gasoline C7-C12	GC05	G	03/21/06 23:16
185679-003	Trifluorotoluene (FID)	GC05	G	03/21/06 23:16
185679-003	Bromofluorobenzene (FID)	GC05	G	03/21/06 23:16
185679-004	Gasoline C7-C12	GC05	G	03/21/06 23:48
185679-004	Trifluorotoluene (FID)	GC05	G	03/21/06 23:48
185679-004	Bromofluorobenzene (FID)	GC05	G	03/21/06 23:48
185679-005	Gasoline C7-C12	GC05	G	03/22/06 00:20
185679-005	Trifluorotoluene (FID)	GC05	G	03/22/06 00:20
185679-005	Bromofluorobenzene (FID)	GC05	G	03/22/06 00:20
185679-008	Gasoline C7-C12	GC05	G	03/22/06 00:51
185679-008	Trifluorotoluene (FID)	GC05	G	03/22/06 00:51
185679-008	Bromofluorobenzene (FID)	GC05	G	03/22/06 00:51
185679-009	Gasoline C7-C12	GC05	G	03/22/06 01:23
185679-009	Trifluorotoluene (FID)	GC05	G	03/22/06 01:23
185679-009	Bromofluorobenzene (FID)	GC05	G	03/22/06 01:23
185679-017	MTBE	GC05	H	03/21/06 18:31
185679-017	Benzene	GC05	H	03/21/06 18:31
185679-017	Toluene	GC05	H	03/21/06 18:31
185679-017	Ethylbenzene	GC05	H	03/21/06 18:31
185679-017	Trifluorotoluene (PID)	GC05	H	03/21/06 18:31
185679-017	Bromofluorobenzene (PID)	GC05	H	03/21/06 18:31
185679-017	Xylene (total)	GC05	H	03/21/06 18:31
185679-020	Gasoline C7-C12	GC05	G	03/21/06 19:03
185679-020	MTBE	GC05	H	03/21/06 19:03
185679-020	Benzene	GC05	H	03/21/06 19:03
185679-020	Toluene	GC05	H	03/21/06 19:03
185679-020	Ethylbenzene	GC05	H	03/21/06 19:03
185679-020	Trifluorotoluene (FID)	GC05	G	03/21/06 19:03
185679-020	Bromofluorobenzene (FID)	GC05	G	03/21/06 19:03
185679-020	Trifluorotoluene (PID)	GC05	H	03/21/06 19:03
185679-020	Bromofluorobenzene (PID)	GC05	H	03/21/06 19:03
185679-020	Xylene (total)	GC05	H	03/21/06 19:03
185679-021	Gasoline C7-C12	GC05	G	03/21/06 19:35
185679-021	MTBE	GC05	H	03/21/06 19:35
185679-021	Benzene	GC05	H	03/21/06 19:35
185679-021	Toluene	GC05	H	03/21/06 19:35
185679-021	Ethylbenzene	GC05	H	03/21/06 19:35
185679-021	Trifluorotoluene (FID)	GC05	G	03/21/06 19:35
185679-021	Bromofluorobenzene (FID)	GC05	G	03/21/06 19:35

REPORTING SUMMARY FOR 185679 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185679-021	Trifluorotoluene (PID)	GC05	H	03/21/06 19:35
185679-021	Bromofluorobenzene (PID)	GC05	H	03/21/06 19:35
185679-021	Xylene (total)	GC05	H	03/21/06 19:35
QC332256	Gasoline C7-C12	GC05	G	03/21/06 09:52
QC332256	MTBE	GC05	H	03/21/06 09:52
QC332256	Benzene	GC05	H	03/21/06 09:52
QC332256	Toluene	GC05	H	03/21/06 09:52
QC332256	Ethylbenzene	GC05	H	03/21/06 09:52
QC332256	Trifluorotoluene (FID)	GC05	G	03/21/06 09:52
QC332256	Bromofluorobenzene (FID)	GC05	G	03/21/06 09:52
QC332256	Trifluorotoluene (PID)	GC05	H	03/21/06 09:52
QC332256	Bromofluorobenzene (PID)	GC05	H	03/21/06 09:52
QC332256	Xylene (total)	GC05	H	03/21/06 09:52
QC332257	MTBE	GC05	H	03/21/06 08:49
QC332257	Benzene	GC05	H	03/21/06 08:49
QC332257	Toluene	GC05	H	03/21/06 08:49
QC332257	Ethylbenzene	GC05	H	03/21/06 08:49
QC332257	Trifluorotoluene (PID)	GC05	H	03/21/06 08:49
QC332257	Bromofluorobenzene (PID)	GC05	H	03/21/06 08:49
QC332258	Gasoline C7-C12	GC05	G	03/21/06 09:20
QC332258	Trifluorotoluene (FID)	GC05	G	03/21/06 09:20
QC332258	Bromofluorobenzene (FID)	GC05	G	03/21/06 09:20
QC332342	Gasoline C7-C12	GC05	G	03/21/06 12:59
QC332342	Trifluorotoluene (FID)	GC05	G	03/21/06 12:59
QC332342	Bromofluorobenzene (FID)	GC05	G	03/21/06 12:59
QC332343	Gasoline C7-C12	GC05	G	03/21/06 13:30
QC332343	Trifluorotoluene (FID)	GC05	G	03/21/06 13:30
QC332343	Bromofluorobenzene (FID)	GC05	G	03/21/06 13:30

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111486
Date Started: 21-MAR-2006
Batched by : Thelma Perez

Analysis : N/A
Bgroup : TVH
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185667-001			SHN	Water	MBTXE, TVH	31-MAR-2006
185667-002			SHN	Water	MBTXE, TVH	31-MAR-2006
185679-001			Treadwell & Rollo	Water	TVH	31-MAR-2006
185679-002			Treadwell & Rollo	Water	TVH	31-MAR-2006
185679-003			Treadwell & Rollo	Water	TVH	31-MAR-2006
185679-004			Treadwell & Rollo	Water	TVH	31-MAR-2006
185679-005			Treadwell & Rollo	Water	TVH	31-MAR-2006
185679-008			Treadwell & Rollo	Water	TVH	31-MAR-2006
185679-009			Treadwell & Rollo	Water	TVH	31-MAR-2006
185679-017			Treadwell & Rollo	Water	MBTXE	31-MAR-2006
185679-020			Treadwell & Rollo	Water	MBTXE, TVH	31-MAR-2006
185679-021			Treadwell & Rollo	Water	MBTXE, TVH	31-MAR-2006
185693-001			Treadwell & Rollo	Water	TVH	27-MAR-2006
185693-002			Treadwell & Rollo	Water	TVH	27-MAR-2006
185693-003			Treadwell & Rollo	Water	TVH	27-MAR-2006
QC332256	BLANK			Water		
QC332257	LCS			Water		
QC332258	LCS			Water		
QC332342	MS	of 185667-002		Water		
QC332343	MSD	of 185667-002		Water		

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Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water
As of 04/29/06

Analyte	Units	GC19 X	GC04 A	GC04 J	GC05 G	GC07 A
Gasoline C6-C10	ug/L	21	6.7	6.2	4.8	10
Gasoline C6-C12	ug/L	21	5.5	6.8	4.5	14
Gasoline C7-C12	ug/L	27	4.8	7.2	4.2	15
JP-4 C7-C12	ug/L	4.6		12	9.9	19
Gasoline C6-C8	ug/L					7.0
Gasoline C8-C10	ug/L					12
Trifluorotoluene (FID)	ug/L		3.9			9.8
Bromofluorobenzene (FID)	ug/L		5.2			7.5

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8021B Water
As of 04/29/06

Analyte	Units	GC19 Y	GC19 Z	GC04 K	GC04 L	GC05 H	GC05 I	GC07 B	GC07 C
MTBE	ug/L	0.49	0.18	0.45	0.83	0.30	0.62	0.35	0.23
Benzene	ug/L	0.073	0.033	0.094	0.16	0.034	0.057	0.23	0.035
Toluene	ug/L	0.13	0.025	0.14	0.11	0.048	0.15	0.069	0.024
Ethylbenzene	ug/L	0.14	0.024	0.038	0.12	0.036	0.17	0.084	0.056
m,p-Xylenes	ug/L	0.13	0.039	0.10	0.21	0.030	0.17	0.090	0.027
o-Xylene	ug/L	0.15	0.015	0.12	0.10	0.083	0.19	0.13	0.040

TOTAL EXTRACTABLE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	111828
Units:	ug/L	Received:	03/21/06
Diln Fac:	1.000	Prepared:	03/29/06

Field ID:	NKGW02	Sampled:	03/20/06
Type:	SAMPLE	Analyzed:	03/30/06
Lab ID:	185679-001	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	109	65-135

Field ID:	NKGW05	Sampled:	03/20/06
Type:	SAMPLE	Analyzed:	03/30/06
Lab ID:	185679-002	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	94	65-135

Field ID:	NKGW01	Sampled:	03/20/06
Type:	SAMPLE	Analyzed:	03/30/06
Lab ID:	185679-003	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	104	65-135

Field ID:	NKGW04	Sampled:	03/20/06
Type:	SAMPLE	Analyzed:	03/30/06
Lab ID:	185679-004	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	99	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	111828
Units:	ug/L	Received:	03/21/06
Diln Fac:	1.000	Prepared:	03/29/06

Field ID:	DUP0320061A	Sampled:	03/20/06
Type:	SAMPLE	Analyzed:	03/30/06
Lab ID:	185679-005	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	99	65-135

Field ID:	LF6GW106	Sampled:	03/20/06
Type:	SAMPLE	Analyzed:	03/30/06
Lab ID:	185679-007	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	115	65-135

Field ID:	1349MW105	Sampled:	03/20/06
Type:	SAMPLE	Analyzed:	03/30/06
Lab ID:	185679-008	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	106	65-135

Field ID:	600GW107	Sampled:	03/20/06
Type:	SAMPLE	Analyzed:	03/30/06
Lab ID:	185679-009	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	99	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	111828
Units:	ug/L	Received:	03/21/06
Diln Fac:	1.000	Prepared:	03/29/06

Field ID:	610SP01	Sampled:	03/21/06
Type:	SAMPLE	Analyzed:	03/30/06
Lab ID:	185679-020	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	96	65-135

Field ID:	610SP02	Sampled:	03/21/06
Type:	SAMPLE	Analyzed:	03/31/06
Lab ID:	185679-021	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	107	65-135

Type:	BLANK	Analyzed:	03/30/06
Lab ID:	QC333610	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	91	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	111828
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000	Analyzed:	03/30/06

Type: BS Cleanup Method: EPA 3630C
Lab ID: QC333611

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	2,500	2,429	97	65-135

Surrogate	%REC	Limits
Hexacosane	94	65-135

Type: BSD Cleanup Method: EPA 3630C
Lab ID: QC333612

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,206	88	65-135	10	35

Surrogate	%REC	Limits
Hexacosane	82	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185679 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 115446255002
Units : mg/L

Name : DIESEL
Date : 05-NOV-2005 23:53
X Axis : R

Reviewer: RH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	309a011	115446255011	dsl_10	05-NOV-2005 23:53	S1732
L2	309a013	115446255013	dsl_250	06-NOV-2005 00:49	S1734
L3	309a014	115446255014	dsl_500	06-NOV-2005 01:17	S1735
L4	309a015	115446255015	dsl_1000	06-NOV-2005 01:45	S1736
L5	309a016	115446255016	dsl_2500	06-NOV-2005 02:12	S1737
L6	309a017	115446255017	dsl_5000	06-NOV-2005 02:40	S1731
L7	309a039	115446255039	dsl_100	06-NOV-2005 22:23	S1733

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	66564	67471	67989	68804	69120	69411	70464	AVRG		1.46E-5		68546	2	0.995	20	

55

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

115446255002

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185679 GCSV Water
EPA 8015B

Inst : GC11A
Calnum : 115446255002

Name : DIESEL
Cal Date: 05-NOV-2005

ICV 115446255040 (309a040 06-NOV-2005) stds: S1178

Analyte	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	500.0	498.6	mg/L	0	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185679 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 116049801004
Units : mg/L

Date : 04-FEB-2006 00:18
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	034a023	116049801023	mo_50	04-FEB-2006 00:18	S2118
L2	034a024	116049801024	mo_250	04-FEB-2006 00:46	S2119
L3	034a025	116049801025	mo_500	04-FEB-2006 01:14	S2120
L4	034a026	116049801026	mo_1000	04-FEB-2006 01:42	S2121
L5	034a027	116049801027	mo_2500	04-FEB-2006 02:10	S2122
L6	034a028	116049801028	mo_5000	04-FEB-2006 02:39	S2117

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	40103	42997	43448	44594	44247	45696	AVRG		2.30E-5		43514	4	0.995	20	

57

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185679 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 115446255001
Units : mg/L

Name : Hexacosane
Date : 05-NOV-2005 21:35
X Axis : R

Reviewer: RH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	309a006	115446255006	hex_5	05-NOV-2005 21:35	S1469
L2	309a007	115446255007	hex_10	05-NOV-2005 22:02	S1470
L3	309a008	115446255008	hex_25	05-NOV-2005 22:30	S1471
L4	309a009	115446255009	hex_50	05-NOV-2005 22:58	S1472
L5	309a010	115446255010	hex_75	05-NOV-2005 23:25	S1473

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	78300	78621	78154	81971	77951	AVRG		1.27E-5		78999	2	0.995	20	

58

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

115446255001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185679 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166117087001
Units : mg/L

Date : 22-MAR-2006 12:39
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	081b006	166117087006	dsl_10	22-MAR-2006 12:39	S2961
L2	081b007	166117087007	dsl_100	22-MAR-2006 13:07	S2938
L3	081b008	166117087008	dsl_250	22-MAR-2006 13:34	S2939
L4	081b009	166117087009	dsl_500	22-MAR-2006 14:02	S2940
L5	081b010	166117087010	dsl_1000	22-MAR-2006 14:30	S2941
L6	081b011	166117087011	dsl_2500	22-MAR-2006 14:57	S2942
L7	081b012	166117087012	dsl_5000	22-MAR-2006 15:25	S2936

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	60107	59785	55253	54313	53973	54874	53381	AVRG		1.79E-5		55955	5	0.995	20	

59

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

166117087001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185679 GCSV Water
EPA 8015B

Inst : GC15B
Calnum : 166117087001 Cal Date: 22-MAR-2006

ICV 166117087014 (081b014 22-MAR-2006) stds: S2708

Analyte	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	500.0	480.4	mg/L	-4	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185679 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166115824002
Units : mg/L

Date : 21-MAR-2006 14:52
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	080b006	166115824006	mo_50	21-MAR-2006 14:52	S2118
L2	080b007	166115824007	mo_250	21-MAR-2006 15:20	S2119
L3	080b008	166115824008	mo_500	21-MAR-2006 15:49	S2120
L4	080b009	166115824009	mo_1000	21-MAR-2006 16:17	S2121
L5	080b010	166115824010	mo_2500	21-MAR-2006 16:46	S2122
L6	080b011	166115824011	mo_5000	21-MAR-2006 17:15	S2117

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	35689	35718	36071	34029	27094	20672	AVRG		3.17E-5		31546	20	0.995	20	

61

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

166115824002

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185679 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166114247001
Units : mg/L

Date : 20-MAR-2006 14:52
X Axis : R

Reviewer: MCH
Inj Vol : 3 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	079b007	166114247007	hex_5	20-MAR-2006 14:52	S2694
L2	079b008	166114247008	hex_10	20-MAR-2006 15:20	S2695
L3	079b009	166114247009	hex_25	20-MAR-2006 15:49	S2696
L4	079b010	166114247010	hex_50	20-MAR-2006 16:17	S2697
L5	079b011	166114247011	hex_75	20-MAR-2006 16:45	S2698

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	64028	62636	61750	60993	60763	AVRG		1.61E-5		62034	2	0.995	20	

62

AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

166114247001

CONTINUING CALIBRATION SUMMARY FOR 185679 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116128618004	30-MAR-2006 09:03	115446255002	05-NOV-2005	68546	63739	500.00	464.93	mg/L	-7	15	
GC11A	A	116128618017	30-MAR-2006 15:37	115446255002	05-NOV-2005	68546	63903	1000.0	932.26	mg/L	-7	15	
GC15B	B	166128609014	30-MAR-2006 15:16	166117087001	22-MAR-2006	55955	48567	250.00	216.99	mg/L	-13	15	
GC15B	B	166128609030	30-MAR-2006 23:41	166117087001	22-MAR-2006	55955	47488	500.00	424.34	mg/L	-15	15	
GC15B	B	166128609040	31-MAR-2006 04:20	166117087001	22-MAR-2006	55955	49639	1000.0	887.12	mg/L	-11	15	

CONTINUING CALIBRATION SUMMARY FOR 185679 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116128618005	30-MAR-2006 09:55	116049801004	04-FEB-2006	43514	36950	500.00	424.58	mg/L	-15	15	
GC11A	A	116128618016	30-MAR-2006 15:08	116049801004	04-FEB-2006	43514	36820	500.00	423.08	mg/L	-15	15	
GC15B	B	166128609015	30-MAR-2006 15:44	166115824002	21-MAR-2006	31546	31559	500.00	500.22	mg/L	0	15	
GC15B	B	166128609031	31-MAR-2006 00:09	166115824002	21-MAR-2006	31546	31323	500.00	496.47	mg/L	-1	15	
GC15B	B	166128609041	31-MAR-2006 04:47	166115824002	21-MAR-2006	31546	32956	500.00	522.35	mg/L	4	15	

CONTINUING CALIBRATION SUMMARY FOR 185679 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116128618004	30-MAR-2006 09:03	115446255001	05-NOV-2005	78999	68082	50.000	43.090	mg/L	-14	15	
GC11A	A	116128618016	30-MAR-2006 15:08	115446255001	05-NOV-2005	78999	66953	50.000	42.376	mg/L	-15	15	
GC15B	B	166128609014	30-MAR-2006 15:16	166114247001	20-MAR-2006	62034	61426	50.000	49.510	mg/L	-1	15	
GC15B	B	166128609030	30-MAR-2006 23:41	166114247001	20-MAR-2006	62034	61282	50.000	49.394	mg/L	-1	15	
GC15B	B	166128609040	31-MAR-2006 04:20	166114247001	20-MAR-2006	62034	57403	50.000	46.267	mg/L	-7	15	

SEQUENCE SUMMARY FOR 185679 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 115446255 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 05-NOV-2005
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
003	309a003	X	c12-60			05-NOV-2005 20:11	1.0						
004	309a004	X	c50			05-NOV-2005 20:39	1.0						
005	309a005	X	ib			05-NOV-2005 21:07	1.0						
006	309a006	ICAL	hex_5			05-NOV-2005 21:35	1.0					1	
007	309a007	ICAL	hex_10			05-NOV-2005 22:02	1.0					2	
008	309a008	ICAL	hex_25			05-NOV-2005 22:30	1.0					3	
009	309a009	ICAL	hex_50			05-NOV-2005 22:58	1.0					4	
010	309a010	ICAL	hex_75			05-NOV-2005 23:25	1.0					5	
011	309a011	ICAL	dsl_10			05-NOV-2005 23:53	1.0					6	
013	309a013	ICAL	dsl_250			06-NOV-2005 00:49	1.0					7	
014	309a014	ICAL	dsl_500			06-NOV-2005 01:17	1.0					8	
015	309a015	ICAL	dsl_1000			06-NOV-2005 01:45	1.0					9	
016	309a016	ICAL	dsl_2500			06-NOV-2005 02:12	1.0					10	
017	309a017	ICAL	dsl_5000			06-NOV-2005 02:40	1.0					11	
039	309a039	ICAL	dsl_100			06-NOV-2005 22:23	1.0					12	66
040	309a040	ICV	dsl			06-NOV-2005 23:18	1.0		3			13	
041	309a041	ICAL	mo_50			06-NOV-2005 23:46	1.0					14	
042	309a042	ICAL	mo_250			07-NOV-2005 00:14	1.0					15	
043	309a043	ICAL	mo_500			07-NOV-2005 00:42	1.0					16	
044	309a044	ICAL	mo_1000			07-NOV-2005 01:10	1.0					17	
045	309a045	ICAL	mo_2500			07-NOV-2005 01:38	1.0					18	
046	309a046	ICAL	mo_5000			07-NOV-2005 02:06	1.0					19	

Stds used: 1=S1469 2=S1470 3=S1471 4=S1472 5=S1473 6=S1732 7=S1734 8=S1735 9=S1736 10=S1737 11=S1731 12=S1733 13=S1178 14=S693 15=S694 16=S695 17=S696 18=S697 19=S691

SEQUENCE SUMMARY FOR 185679 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116049801 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 03-FEB-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	034a001	X	primer			03-FEB-2006 14:01	1.0							
002	034a002	X	ib			03-FEB-2006 14:29	1.0							
003	034a003	CCV	dsl_250			03-FEB-2006 14:57	1.0			3			1	
004	034a004	X	ib			03-FEB-2006 15:25	1.0							
005	034a005	CCV	mo_500			03-FEB-2006 15:53	1.0	6		3			2	
006	034a006	?SAMPLE	184620-007			03-FEB-2006 16:21	1.0							
007	034a007	?SAMPLE	184620-008			03-FEB-2006 16:49	1.0							
008	034a008	?SAMPLE	184620-009			03-FEB-2006 17:17	1.0							
009	034a009	?SAMPLE	184620-010			03-FEB-2006 17:45	1.0							
010	034a010	X	ib			03-FEB-2006 18:13	1.0							
011	034a011	?SAMPLE	184620-006			03-FEB-2006 18:41	1.0							
012	034a012	?SAMPLE	184620-004			03-FEB-2006 19:09	1.0							
013	034a013	?SAMPLE	184620-005			03-FEB-2006 19:37	1.0							
014	034a014	X	ib			03-FEB-2006 20:05	1.0							
015	034a015	?SAMPLE	184620-001			03-FEB-2006 20:33	1.0							
016	034a016	?SAMPLE	184620-002			03-FEB-2006 21:01	1.0							
017	034a017	?SAMPLE	184620-003			03-FEB-2006 21:29	1.0							
018	034a018	X	ib			03-FEB-2006 21:57	1.0							
019	034a019	CCV	dsl_500			03-FEB-2006 22:25	1.0						3	
020	034a020	X	ib			03-FEB-2006 22:54	1.0							
021	034a021	X	ib			03-FEB-2006 23:22	1.0							
022	034a022	X	ib			03-FEB-2006 23:50	1.0							
023	034a023	ICAL	mo_50			04-FEB-2006 00:18	1.0						4	
024	034a024	ICAL	mo_250			04-FEB-2006 00:46	1.0						5	
025	034a025	ICAL	mo_500			04-FEB-2006 01:14	1.0						6	
026	034a026	ICAL	mo_1000			04-FEB-2006 01:42	1.0						7	
027	034a027	ICAL	mo_2500			04-FEB-2006 02:10	1.0						8	
028	034a028	ICAL	mo_5000			04-FEB-2006 02:39	1.0						9	
029	034a029	X	ib			04-FEB-2006 03:07	1.0							

Stds used: 1=S2505 2=S2577 3=S2504 4=S2118 5=S2119 6=S2120 7=S2121 8=S2122 9=S2117

SEQUENCE SUMMARY FOR 185679 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166114247 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	079b001	X	primer			20-MAR-2006 08:07	1.0					
002	079b002	X	ib			20-MAR-2006 08:34	1.0					
003	079b003	CCV	dsl_500			20-MAR-2006 09:02	1.0	1.0		3	1	
004	079b004	CCV	mo_500			20-MAR-2006 11:26	1.0				2	
005	079b005	CCV	dsl_500			20-MAR-2006 11:53	1.0				1	
006	079b006	X	ib			20-MAR-2006 14:24	1.0					
007	079b007	ICAL	hex_5			20-MAR-2006 14:52	1.0	1.0			3	
008	079b008	ICAL	hex_10			20-MAR-2006 15:20	1.0	1.0			4	
009	079b009	ICAL	hex_25			20-MAR-2006 15:49	1.0	1.0			5	
010	079b010	ICAL	hex_50			20-MAR-2006 16:17	1.0	1.0			6	
011	079b011	ICAL	hex_75			20-MAR-2006 16:45	1.0	1.0			7	
012	079b012	CCV	dsl_1000			20-MAR-2006 17:14	1.0	1.0		3	8	
013	079b013	CCV	mo_500			20-MAR-2006 17:42	1.0	1.0		3	2	
014	079b014	SAMPLE	185385-001	S 111346	Water	20-MAR-2006 18:23	1.0	0.005		3		
015	079b015	SAMPLE	185385-002	S 111346	Water	20-MAR-2006 18:52	1.0	0.005		3		
016	079b016	SAMPLE	185385-003	S 111346	Water	20-MAR-2006 19:20	1.0	0.005		3		
017	079b017	SAMPLE	185385-004	S 111346	Water	20-MAR-2006 19:48	1.0	0.005		3		
018	079b018	SAMPLE	185385-005	S 111346	Water	20-MAR-2006 20:16	1.0	0.005		3		
019	079b019	X	ib			20-MAR-2006 20:45	1.0					
020	079b020	SAMPLE	185385-006	S 111346	Water	20-MAR-2006 21:13	1.0	0.005		3		
021	079b021	SAMPLE	185385-007	S 111346	Water	20-MAR-2006 21:41	1.0	0.005		3		
022	079b022	SAMPLE	185385-008	S 111346	Water	20-MAR-2006 22:09	1.0	0.005		3		
023	079b023	SAMPLE	185385-009	S 111346	Water	20-MAR-2006 22:37	1.0	0.005		3		
024	079b024	SAMPLE	185385-011	S 111346	Water	20-MAR-2006 23:05	1.0	0.005		3		
025	079b025	X	ib			20-MAR-2006 23:33	1.0					
026	079b026	X	ib			21-MAR-2006 00:01	1.0					
027	079b027	CCV	dsl_250			21-MAR-2006 00:29	1.0	1.0		3	9	
028	079b028	CCV	mo_500			21-MAR-2006 00:57	1.0	1.0	3	3	2	
029	079b029	X	ccv			21-MAR-2006 01:25	1.0				2	
030	079b030	X	ccv			21-MAR-2006 01:52	1.0				9	
031	079b031	SAMPLE	185414-001	S 111437	Water	21-MAR-2006 02:20	1.0	0.005		3		

Stds used: 1=S2871 2=S2843 3=S2694 4=S2695 5=S2696 6=S2697 7=S2698 8=S2885 9=S2755

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SEQUENCE SUMMARY FOR 185679 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166114247 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 20-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	079b032	SAMPLE	185525-004 S	111348	Water	21-MAR-2006 02:48	1.0	0.005			3		
033	079b033	SAMPLE	185525-001 S	111348	Water	21-MAR-2006 03:15	1.0	0.005			3		
034	079b034	SAMPLE	185525-005 S	111348	Water	21-MAR-2006 03:43	1.0	0.005			3		
035	079b035	SAMPLE	185525-008 S	111348	Water	21-MAR-2006 04:11	1.0	0.005			3		
036	079b036	SAMPLE	185525-011 S	111348	Water	21-MAR-2006 04:38	1.0	0.005			3		
037	079b037	SAMPLE	185525-007 S	111348	Water	21-MAR-2006 05:06	1.0	0.005			3		
038	079b038	SAMPLE	185525-010 S	111348	Water	21-MAR-2006 05:34	1.0	0.005			3		
039	079b039	SAMPLE	185525-012 S	111348	Water	21-MAR-2006 06:02	1.0	0.005			3		
040	079b040	X	ib			21-MAR-2006 06:30	1.0						
041	079b041	CCV	dsl_1000			21-MAR-2006 06:57	1.0	1.0	7		3	8	
042	079b042	CCV	mo_500			21-MAR-2006 07:25	1.0	1.0	4		3	2	
043	079b043	X	ccv			21-MAR-2006 07:53	1.0					2	
044	079b044	X	ccv			21-MAR-2006 08:20	1.0					8	

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Stds used: 1=S2871 2=S2843 3=S2694 4=S2695 5=S2696 6=S2697 7=S2698 8=S2885 9=S2755

SEQUENCE SUMMARY FOR 185679 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166115824 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 21-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	080b001	ICAL	dsl_10			21-MAR-2006 10:24	1.0					1	
002	080b002	X	ib			21-MAR-2006 11:50	1.0						
003	080b003	CCV	dsl_500			21-MAR-2006 12:18	1.0	1.0			3	2	
004	080b004	CCV	mo_500			21-MAR-2006 12:46	1.0	1.0	2		3	3	
005	080b005	X	ib			21-MAR-2006 14:24	1.0						
006	080b006	ICAL	mo_50			21-MAR-2006 14:52	1.0	1.0				4	
007	080b007	ICAL	mo_250			21-MAR-2006 15:20	1.0	1.0				5	
008	080b008	ICAL	mo_500			21-MAR-2006 15:49	1.0	1.0				6	
009	080b009	ICAL	mo_1000			21-MAR-2006 16:17	1.0	1.0				7	
010	080b010	ICAL	mo_2500			21-MAR-2006 16:46	1.0	1.0				8	
011	080b011	ICAL	mo_5000			21-MAR-2006 17:15	1.0	1.0				9	
012	080b012	X	ib			21-MAR-2006 17:52	1.0						
013	080b013	CCV	dsl_1000			21-MAR-2006 18:21	1.0	1.0			3	10	
014	080b014	X	mo_500			21-MAR-2006 18:49	1.0	1.0	3		3	3	
015	080b015	CCV	mo_500			21-MAR-2006 19:27	1.0	1.0	2		3	11	70
016	080b016	SAMPLE	185580-002	111477	Water	21-MAR-2006 21:34	1.0	0.005			3		
017	080b017	SAMPLE	185580-010	111477	Water	21-MAR-2006 22:02	1.0	0.005			3		
018	080b018	SAMPLE	185457-011 S	111478	Water	21-MAR-2006 22:30	1.0	0.005			3		
019	080b019	SAMPLE	185457-012 S	111478	Water	21-MAR-2006 22:58	1.0	0.005			3		
020	080b020	SAMPLE	185457-013 S	111478	Water	21-MAR-2006 23:26	1.0	0.005			3		
021	080b021	SAMPLE	185457-014 S	111478	Water	21-MAR-2006 23:54	1.0	0.005			3		
022	080b022	MSS	185457-016 S	111478	Water	22-MAR-2006 00:22	1.0	0.005	8		3		
023	080b023	SAMPLE	185457-017 S	111478	Water	22-MAR-2006 00:50	1.0	0.005			3		
024	080b024	SAMPLE	185457-019 S	111478	Water	22-MAR-2006 01:18	1.0	0.005			3		
025	080b025	MSS	185457-020 S	111478	Water	22-MAR-2006 01:46	1.0	0.005	8		3		
026	080b026	X	ib			22-MAR-2006 02:14	1.0						
027	080b027	CCV	dsl_250			22-MAR-2006 02:41	1.0	1.0			3	12	
028	080b028	CCV	mo_500			22-MAR-2006 03:09	1.0	1.0	2		3	13	
029	080b029	X	ccv			22-MAR-2006 03:37	1.0					12	
030	080b030	X	ccv			22-MAR-2006 04:05	1.0					13	

Stds used: 1=S2964 2=S2871 3=S2843 4=S2118 5=S2119 6=S2120 7=S2121 8=S2122 9=S2117 10=S2885 11=S2972 12=S2755 13=S2971

SEQUENCE SUMMARY FOR 185679 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166117087 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	081b001	X	primer			22-MAR-2006 07:27	1.0						
002	081b002	X	ib			22-MAR-2006 07:55	1.0						
003	081b003	CCV	dsl_500			22-MAR-2006 08:27	1.0	1.0	6		3	1	
004	081b004	CCV	mo_500			22-MAR-2006 08:55	1.0	1.0	2		3	2	
005	081b005	X	ib			22-MAR-2006 12:12	1.0						
006	081b006	ICAL	dsl_10			22-MAR-2006 12:39	1.0	1.0				3	
007	081b007	ICAL	dsl_100			22-MAR-2006 13:07	1.0	1.0				4	
008	081b008	ICAL	dsl_250			22-MAR-2006 13:34	1.0	1.0				5	
009	081b009	ICAL	dsl_500			22-MAR-2006 14:02	1.0	1.0				6	
010	081b010	ICAL	dsl_1000			22-MAR-2006 14:30	1.0	1.0				7	
011	081b011	ICAL	dsl_2500			22-MAR-2006 14:57	1.0	1.0				8	
012	081b012	ICAL	dsl_5000			22-MAR-2006 15:25	1.0	1.0				9	
013	081b013	X	ib			22-MAR-2006 15:53	1.0						
014	081b014	ICV	dsl_500			22-MAR-2006 16:21	1.0	1.0			3	10	
015	081b015	X	ib			22-MAR-2006 16:49	1.0						71
016	081b016	CCV	dsl_500			22-MAR-2006 17:17	1.0	1.0			3	1	
017	081b017	CCV	mo_500			22-MAR-2006 17:45	1.0	1.0	2		3	2	
018	081b018	CCV	ker_250			22-MAR-2006 18:43	1.0	1.0			3	11	
019	081b019	LCS	QC332247 S	111483	Soil	22-MAR-2006 19:18	1.0	0.09921			3		
020	081b020	BLANK	QC332246 S	111483	Soil	22-MAR-2006 19:45	1.0	0.1007	7		3		
021	081b021	MSS	185620-003 S	111483	Soil	22-MAR-2006 20:13	1.0	0.1001	9		3		
022	081b022	MS	QC332248 S	111483	Soil	22-MAR-2006 20:41	1.0	0.1006			3		
023	081b023	MSD	QC332249 S	111483	Soil	22-MAR-2006 21:09	1.0	0.1004			3		
024	081b024	X	ib			22-MAR-2006 21:37	1.0						
025	081b025	SAMPLE	185463-003 S	111513	Water	22-MAR-2006 22:05	1.0	0.005			3		
026	081b026	SAMPLE	185463-004 S	111513	Water	22-MAR-2006 22:33	1.0	0.005			3		
027	081b027	SAMPLE	185639-002	111483	Soil	22-MAR-2006 23:01	1.0	0.1002			3		
028	081b028	SAMPLE	185640-001	111483	Soil	22-MAR-2006 23:29	3.0	0.09974	3		3		19:BUNKC:=35667.6
029	081b029	SAMPLE	185640-002	111483	Soil	22-MAR-2006 23:57	20.0	0.2001	2		3		12:BUNKC:=30917.1
030	081b030	X	ib			23-MAR-2006 00:24	1.0						
031	081b031	CCV	dsl_1000			23-MAR-2006 00:52	1.0	1.0			3	12	

Stds used: 1=S2871 2=S2971 3=S2961 4=S2938 5=S2939 6=S2940 7=S2941 8=S2942 9=S2936 10=S2708 11=S2806 12=S2885

SEQUENCE SUMMARY FOR 185679 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166117087 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	081b032	CCV	mo_500			23-MAR-2006 01:20	1.0	1.0	2		3	2	
033	081b033	X	ccv			23-MAR-2006 01:48	1.0					12	
034	081b034	CCV	ker_250			23-MAR-2006 02:16	1.0	1.0			3	11	

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Stds used: 1=S2871 2=S2971 3=S2961 4=S2938 5=S2939 6=S2940 7=S2941 8=S2942 9=S2936 10=S2708 11=S2806 12=S2885

SEQUENCE SUMMARY FOR 185679 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116128618 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 30-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	089a001	X	primer			30-MAR-2006 07:38	1.0					
002	089a002	X	ib			30-MAR-2006 08:06	1.0					
003	089a003	X	mo_500			30-MAR-2006 08:35	1.0	1.0	1	3	1	
004	089a004	CCV	dsl_500			30-MAR-2006 09:03	1.0	1.0		3	2	
005	089a005	CCV	mo_500			30-MAR-2006 09:55	1.0	1.0	1	3	1	
006	089a006	X	ib			30-MAR-2006 10:28	1.0					
007	089a007	SAMPLE	185854-001	111828	Water	30-MAR-2006 10:56	1.0	0.005		3		
008	089a008	SAMPLE	185854-002	111828	Water	30-MAR-2006 11:24	1.0	0.005		3		
009	089a009	SAMPLE	185854-004	111836	Soil	30-MAR-2006 11:52	50.0	0.09966		3	2:BUNKC:=5850.69	
010	089a010	BS	QC333430 S	111782	Water	30-MAR-2006 12:20	1.0	0.005		3		
011	089a011	BSD	QC333431 S	111782	Water	30-MAR-2006 12:48	1.0	0.005		3		
012	089a012	BS	QC333611 S	111828	Water	30-MAR-2006 13:16	1.0	0.005		3		
013	089a013	BSD	QC333612 S	111828	Water	30-MAR-2006 13:44	1.0	0.005		3		
014	089a014	BLANK	QC333610 S	111828	Water	30-MAR-2006 14:12	1.0	0.005		3		
015	089a015	SAMPLE	185622-024 S	111728	Water	30-MAR-2006 14:40	1.0	0.005		3		73
016	089a016	CCV	mo_500			30-MAR-2006 15:08	1.0	1.0	3	3	1	
017	089a017	CCV	dsl_1000			30-MAR-2006 15:37	1.0	1.0		3	3	
018	089a018	CCV	mo_500			30-MAR-2006 17:34	1.0	1.0		3	1	
019	089a019	CCV	dsl_1000			30-MAR-2006 18:02	1.0	1.0		3	3	
020	089a020	X	ib			30-MAR-2006 19:59	1.0					
021	089a021	ICAL	hex_5			30-MAR-2006 20:27	1.0	1.0			4	
022	089a022	ICAL	hex_10			30-MAR-2006 20:55	1.0	1.0			5	
023	089a023	ICAL	hex_25			30-MAR-2006 21:23	1.0	1.0			6	
024	089a024	ICAL	hex_50			30-MAR-2006 21:51	1.0	1.0			7	
025	089a025	ICAL	hex_75			30-MAR-2006 22:19	1.0	1.0			8	
026	089a026	X	ib			30-MAR-2006 22:47	1.0					
027	089a027	ICAL	mo_50			30-MAR-2006 23:15	1.0	1.0			9	
028	089a028	ICAL	mo_250			30-MAR-2006 23:43	1.0	1.0			10	
029	089a029	ICAL	mo_500			31-MAR-2006 00:11	1.0	1.0			11	
030	089a030	ICAL	mo_1000			31-MAR-2006 00:40	1.0	1.0			12	

Stds used: 1=S2971 2=S2871 3=S2885 4=S2694 5=S2695 6=S2696 7=S2697 8=S2698 9=S2118 10=S2119 11=S2120 12=S2121 13=S2122 14=S2117 15=S2382 16=S2383 17=S2384 18=S2385 19=S2386 20=S2259 21=S2042 22=S2043 23=S2044 24=S2045 25=S1877

SEQUENCE SUMMARY FOR 185679 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116128618 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 30-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
031	089a031	ICAL	mo_2500			31-MAR-2006 01:08	1.0	1.0		13	
032	089a032	ICAL	mo_5000			31-MAR-2006 01:36	1.0	1.0		14	
033	089a033	X	ib			31-MAR-2006 02:04	1.0				
034	089a034	X	ib			31-MAR-2006 02:32	1.0				
035	089a035	ICAL	jp5_10			31-MAR-2006 03:00	1.0	1.0		15	
036	089a036	ICAL	jp5_100			31-MAR-2006 03:28	1.0	1.0		16	
037	089a037	ICAL	jp5_500			31-MAR-2006 03:56	1.0	1.0		17	
038	089a038	ICAL	jp5_1500			31-MAR-2006 04:24	1.0	1.0		18	
039	089a039	ICAL	jp5_3000			31-MAR-2006 04:52	1.0	1.0		19	
040	089a040	ICAL	jp5_5000			31-MAR-2006 05:20	1.0			20	
041	089a041	X	ib			31-MAR-2006 05:48	1.0				
042	089a042	X	ib			31-MAR-2006 06:16	1.0				
043	089a043	ICAL	bunk_50			31-MAR-2006 06:44	1.0	1.0		21	
044	089a044	ICAL	bunk_500			31-MAR-2006 07:12	1.0	1.0		22	
045	089a045	ICAL	bunk_1250			31-MAR-2006 07:40	1.0	1.0		23	
046	089a046	ICAL	bunk_2500			31-MAR-2006 08:09	1.0	1.0		24	
047	089a047	ICAL	bunk_5000			31-MAR-2006 08:37	1.0	1.0		25	
048	089a048	X	ib			31-MAR-2006 09:05	1.0				
049	089a049	X	ib			31-MAR-2006 09:33	1.0				
050	089a050	X	bunk_5000			31-MAR-2006 12:25	1.0			25	

Stds used: 1=S2971 2=S2871 3=S2885 4=S2694 5=S2695 6=S2696 7=S2697 8=S2698 9=S2118 10=S2119 11=S2120 12=S2121 13=S2122 14=S2117 15=S2382 16=S2383 17=S2384 18=S2385 19=S2386 20=S2259 21=S2042 22=S2043 23=S2044 24=S2045 25=S1877

SEQUENCE SUMMARY FOR 185679 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166128609 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 30-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	089b001	X	primer			30-MAR-2006 07:29	1.0					
002	089b002	X	ib			30-MAR-2006 07:57	1.0					
003	089b003	X	dsl_500			30-MAR-2006 08:25	1.0	1.0	3	3	1	
004	089b004	X	mo_500			30-MAR-2006 08:53	1.0	1.0	2	3	2	
005	089b005	X	QC333431 S	111782	Water	30-MAR-2006 09:21	1.0	0.005	8	3		
006	089b006	CCV	dsl_1000			30-MAR-2006 09:49	1.0	1.0	1	3	3	
007	089b007	CCV	mo_500			30-MAR-2006 10:16	1.0	1.0	2	3	2	
008	089b008	SAMPLE	185854-004	111836	Soil	30-MAR-2006 10:50	5.0	0.09966	2	3		11:BUNKC:=51278.5
009	089b009	X	ib			30-MAR-2006 11:37	1.0					
010	089b010	SAMPLE	185761-003 S	111718	Soil	30-MAR-2006 13:18	1.0	0.1005		3		
011	089b011	SAMPLE	185786-007 S	111684	Water	30-MAR-2006 13:52	5.0	0.005		3		
012	089b012	SAMPLE	185786-006 S	111684	Water	30-MAR-2006 14:20	5.0	0.005		3		
013	089b013	SAMPLE	185645-002	111782	Water	30-MAR-2006 14:48	20.0	0.005		3		
014	089b014	CCV	dsl_250			30-MAR-2006 15:16	1.0	1.0		3	4	
015	089b015	CCV	mo_500			30-MAR-2006 15:44	1.0	1.0	2	3	2	
016	089b016	X	ccv			30-MAR-2006 16:12	1.0				4	
017	089b017	CCV	jp5_250			30-MAR-2006 17:24	1.0	1.0		3	5	
018	089b018	CCV	bunk_1250			30-MAR-2006 17:52	1.0	1.0	1	3	6	
019	089b019	BLANK	QC333610 S	111828	Water	30-MAR-2006 18:34	1.0	0.005		3		
020	089b020	SAMPLE	185679-001 S	111828	Water	30-MAR-2006 19:02	1.0	0.005		3		
021	089b021	SAMPLE	185679-002 S	111828	Water	30-MAR-2006 19:30	1.0	0.005		3		
022	089b022	SAMPLE	185679-003 S	111828	Water	30-MAR-2006 19:58	1.0	0.005		3		
023	089b023	SAMPLE	185679-004 S	111828	Water	30-MAR-2006 20:26	1.0	0.005		3		
024	089b024	SAMPLE	185679-005 S	111828	Water	30-MAR-2006 20:53	1.0	0.005		3		
025	089b025	SAMPLE	185679-007 S	111828	Water	30-MAR-2006 21:21	1.0	0.005		3		
026	089b026	SAMPLE	185679-008 S	111828	Water	30-MAR-2006 21:49	1.0	0.005		3		
027	089b027	SAMPLE	185679-009 S	111828	Water	30-MAR-2006 22:17	1.0	0.005		3		
028	089b028	SAMPLE	185679-020 S	111828	Water	30-MAR-2006 22:45	1.0	0.005		3		
029	089b029	X	ib			30-MAR-2006 23:13	1.0					
030	089b030	CCV	dsl_500			30-MAR-2006 23:41	1.0	1.0		3	1	
031	089b031	CCV	mo_500			31-MAR-2006 00:09	1.0	1.0	2	3	2	

Stds used: 1=S2871 2=S2971 3=S2885 4=S3048 5=S2260 6=S2872

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SEQUENCE SUMMARY FOR 185679 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166128609 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 30-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	089b032	X	ccv			31-MAR-2006 00:37	1.0				1	
033	089b033	X	ccv			31-MAR-2006 01:05	1.0				2	
034	089b034	SAMPLE	185679-021 S	111828	Water	31-MAR-2006 01:32	1.0	0.005		3		
035	089b035	SAMPLE	185813-001 S	111828	Water	31-MAR-2006 02:00	1.0	0.005		3		
036	089b036	SAMPLE	185802-003	111828	Water	31-MAR-2006 02:28	1.0	0.005		3		
037	089b037	SAMPLE	185835-001	111828	Water	31-MAR-2006 02:56	1.0	0.005		3		
038	089b038	SAMPLE	185830-001	111828	Water	31-MAR-2006 03:24	1.0	0.005		3		
039	089b039	X	ib			31-MAR-2006 03:52	1.0					
040	089b040	CCV	dsl_1000			31-MAR-2006 04:20	1.0	1.0		3	3	
041	089b041	CCV	mo_500			31-MAR-2006 04:47	1.0	1.0	2	3	2	
042	089b042	X	ccv			31-MAR-2006 05:15	1.0				3	
043	089b043	X	ccv			31-MAR-2006 05:43	1.0				2	

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Stds used: 1=S2871 2=S2971 3=S2885 4=S3048 5=S2260 6=S2872

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185679 TEHM Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	MO:2	HXCS	
185679-001	GC15B	03/30/06 19:02	1.0	+	+	+	
185679-002	GC15B	03/30/06 19:30	1.0	+	+	+	
185679-003	GC15B	03/30/06 19:58	1.0	+	+	+	
185679-004	GC15B	03/30/06 20:26	1.0	+	+	+	
185679-005	GC15B	03/30/06 20:53	1.0	+	+	+	
185679-007	GC15B	03/30/06 21:21	1.0	+	+	+	
185679-008	GC15B	03/30/06 21:49	1.0	+	+	+	
185679-009	GC15B	03/30/06 22:17	1.0	+	+	+	
185679-020	GC15B	03/30/06 22:45	1.0	+	+	+	
185679-021	GC15B	03/31/06 01:32	1.0	+	+	+	
QC333610	GC11A	03/30/06 14:12	1.0	+	+	+	
QC333610	GC15B	03/30/06 18:34	1.0				
QC333610	GC17A	03/31/06 23:13	1.0				
QC333610	GC17A	04/03/06 18:15	1.0				
QC333611	GC11A	03/30/06 13:16	1.0	+		+	
QC333612	GC11A	03/30/06 13:44	1.0	+		+	

Curtis & Tompkins Laboratories **Sample Preparation Summary** **30-MAR-2006 14:58**

Batch Number : 111828
Date Extracted: 29-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : N/A
Bgroup : TEH
Units : mL
Clean-up :

Spike #1 ID : S2903E
Spike #2 ID : S3025B
Spike #3 ID :
SOP Version : TEH50LL_rv10

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185679-001		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	5	.5	0		TEHM	3630C	
185679-002		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	5	.5	0		TEHM	3630C	
185679-003		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185679-004		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	5	.5	0		TEHM	3630C	
185679-005		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	5	.5	0		TEHM	3630C	
185679-007		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185679-008		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185679-009		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185679-020		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185679-021		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185802-003		URS Corporation	Water	500	mL	2.5	0.005000	1	5	.5	0		TEH		
185813-001		Iris Environmental	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
185830-001		SOMA Environmental Engineering	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH		
185835-001		HydroAnalysis Inc	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH		
185842-002		Tetra Tech FW Inc.	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH		
185842-003		Tetra Tech FW Inc.	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH		
185854-001		Dawson Group	Water	500	mL	2.5	0.005000	1	5	.5	0		TEHM		
185854-002		Dawson Group	Water	500	mL	2.5	0.005000	1	5	.5	0		TEHM		
QC333610	BLANK		Water	500	mL	2.5	0.005000	1		.5	0		TEH	3630C	
QC333611	BS		Water	500	mL	2.5	0.005000	1		.5	.5		TEH	3630C	
QC333612	BSD		Water	500	mL	2.5	0.005000	1		.5	.5		TEH	3630C	

Prep Chemist: SFK FOR JOM Reviewed By: [signature] Date: 03/31/06

Relinquished By: Dan McL Received By: MSB Date: 3/31/06

Curtis & Tompkins, Ltd

TEH WATER PREP LOG

BK2279

LIMS Batch No: 111828
LIMS Analysis: TEH/M
Extracted by: JDM
Date Extracted: 29 Mar 06

Extraction Method:
☐ mod. EPA 3510 sep. funnel
☒ mod. EPA 3520 cont. L/L
☐ _____

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Cleanup Method (if needed):
☒ EPA 3630 Silica Gel
☐ Other _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185679-001 L	500	5	2.5	X	
02		5			
03		6			
04		5			
05		5			
07 F		6			
08 M I					**
09 I M					
20 J					
21 J					
185802-003 A		5			
185813-001 D		6		X	
185830-001 I					
185835-001 E					sample thick w/ sediment
185842-002 E					
03 E					
185854-001 A		5			*
02 A		5			
MB QC333610		NA		X	
BS 11					
BSD 12					

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.5 mL of TEH_SURR was added to all samples	S2403E	JDM 3/29/06
0.5 mL of TEH_SP was added to all spikes	S3025B	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	JTB B24063	
☒ Samples were continually extracted about 450 mL of CH_2Cl_2	EM4000	
Extraction Start Time:	1205* / 1325 / 1345**	
Extraction End Time:	0710* / 0730 / 0745**	DLM 3/30/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM 45118532	
Concentrated to volumes as noted above	✓	✓

Jennifer Ortiz 3/29/06
Extraction Chemist Date

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Contined from Page —
Continued on Page —

03/31/06
Reviewed by Date

Curtis & Tompkins, Ltd.

Silica Gel Cleanup

EPA 3630c

Prep Chemist: SFL
Cleanup Date: 3/30/06

Benchbook # **BK 2297**
Page 15

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
185679-001	111628	1.0	1.0	
-002				
-003				
-004				
-005				
-007				
-008				
-009				
-020				
-021				
185813-001				
				SF 3/30/06

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ____ g columns	N/A	SFL 3/30/06
☑ Extracts were cleaned up using 1.0 g cartridges	SP7028	
Extracts were eluted with 4.0 mL CH_2Cl_2	EM4600	
Concentrated to volumes as noted above	✓	

SF 3/30/06
Extraction Chemist / Date

Continued from page ____
Continued on page ____

Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: DLM
Cleanup Date: 3/30/06

Benchbook # **BK 2297**
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Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
MB QC333610	111828	1.0	1.0	
~~DC DLM 3/30/06 BS~~				DLM 3/30/06
BS QC333611	111828	1.0	1.0	
BSD ↓ 2	↓	↓	↓	
MB QC333641	111836			
LCS ↓ 2	↓	↓	↓	
MS 3				
MSD ↓ 4	↓	↓	↓	
				DLM 3/30/06

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ____ g columns	NA	DLM 3/30/06
☑ Extracts were cleaned up using 1.0 g cartridges	SP7028	↓
Extracts were eluted with 4.0 mL CH_2Cl_2	EM46060	
Concentrated to volumes as noted above	✓	

Dan Mela 3/30/06
Extraction Chemist / Date

Continued from page ____
Continued on page ____

Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water
As of 04/29/06

Analyte	Units	GC11A	GC13B	GC15B	GC17A
JP-5 C10-C16	ug/L	17	16	7.9	5.4
Jet Fuel A C10-C16	ug/L	14	30	24	33
Diesel C10-C20	ug/L		16	13	19
Diesel C10-C22	ug/L	21	18	19	27
Diesel C10-C28	ug/L	18	11	22	37
Diesel C10-C24	ug/L	21	15	18	33
Diesel C12-C24	ug/L	20	13	20	33
Diesel C12-C32	ug/L	22	14	25	23
Diesel C12-C36	ug/L	13	17		
Diesel C12-C28	ug/L		31		
Diesel C12-C22	ug/L	19	17	20	25
Motor Oil C20-C36	ug/L	40	50	29	53
Motor Oil C28-C36	ug/L	42	55	33	76
Motor Oil C24-C36	ug/L	42	55	33	76
Motor Oil C22-C32	ug/L	36	51	21	50
Motor Oil C22-C36	ug/L	41	52	30	51
Hexacosane	ug/L	4.5	3.4	4.2	3.1

VOLATILE ORGANIC COMPOUNDS

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	NKGW02	Batch#:	111610
Lab ID:	185679-001	Sampled:	03/20/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Analyzed:	03/23/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	91	80-120
1,2-Dichloroethane-d4	97	76-114
Toluene-d8	98	88-110
Bromofluorobenzene	101	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	NKGW05	Batch#:	111610
Lab ID:	185679-002	Sampled:	03/20/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Analyzed:	03/23/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-120
1,2-Dichloroethane-d4	98	76-114
Toluene-d8	98	88-110
Bromofluorobenzene	101	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	NKGW01	Batch#:	111610
Lab ID:	185679-003	Sampled:	03/20/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Analyzed:	03/23/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-120
1,2-Dichloroethane-d4	100	76-114
Toluene-d8	98	88-110
Bromofluorobenzene	100	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	NKGW04	Batch#:	111601
Lab ID:	185679-004	Sampled:	03/20/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Analyzed:	03/23/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	111	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	105	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DUP0320061A	Batch#:	111601
Lab ID:	185679-005	Sampled:	03/20/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Analyzed:	03/23/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-120
1,2-Dichloroethane-d4	109	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	107	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	1349MW105	Batch#:	111601
Lab ID:	185679-008	Sampled:	03/20/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Analyzed:	03/23/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-120
1,2-Dichloroethane-d4	112	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	105	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	600GW107	Batch#:	111601
Lab ID:	185679-009	Sampled:	03/20/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Analyzed:	03/23/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	108	76-114
Toluene-d8	98	88-110
Bromofluorobenzene	108	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	TB0320063A	Batch#:	111601
Lab ID:	185679-018	Sampled:	03/20/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Analyzed:	03/23/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	111	76-114
Toluene-d8	98	88-110
Bromofluorobenzene	105	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	LF5SP100	Batch#:	111601
Lab ID:	185679-019	Sampled:	03/21/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Analyzed:	03/23/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-120
1,2-Dichloroethane-d4	111	76-114
Toluene-d8	98	88-110
Bromofluorobenzene	106	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	TB0321063A	Batch#:	111601
Lab ID:	185679-022	Sampled:	03/21/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Analyzed:	03/23/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	112	76-114
Toluene-d8	98	88-110
Bromofluorobenzene	107	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332715	Batch#:	111601
Matrix:	Water	Analyzed:	03/23/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	106	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	105	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC332760	Batch#:	111610
Matrix:	Water	Analyzed:	03/23/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-120
1,2-Dichloroethane-d4	100	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	102	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	111601
Units:	ug/L	Analyzed:	03/23/06
Diln Fac:	1.000		

Type: BS Lab ID: QC332713

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	24.42	98	65-135
Benzene	25.00	22.86	91	65-135
Trichloroethene	25.00	23.95	96	65-135
Toluene	25.00	23.42	94	65-135
Chlorobenzene	25.00	24.70	99	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-120
1,2-Dichloroethane-d4	104	76-114
Toluene-d8	98	88-110
Bromofluorobenzene	99	86-115

Type: BSD Lab ID: QC332714

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	23.12	92	65-135	6	35
Benzene	25.00	21.51	86	65-135	6	35
Trichloroethene	25.00	22.75	91	65-135	5	35
Toluene	25.00	22.45	90	65-135	4	35
Chlorobenzene	25.00	23.08	92	65-135	7	35

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-120
1,2-Dichloroethane-d4	103	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	98	86-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	111610
Units:	ug/L	Analyzed:	03/23/06
Diln Fac:	1.000		

Type: BS Lab ID: QC332756

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	27.89	112	65-135
Benzene	25.00	25.32	101	65-135
Trichloroethene	25.00	26.69	107	65-135
Toluene	25.00	26.02	104	65-135
Chlorobenzene	25.00	26.34	105	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-120
1,2-Dichloroethane-d4	98	76-114
Toluene-d8	97	88-110
Bromofluorobenzene	93	86-115

Type: BSD Lab ID: QC332757

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	25.95	104	65-135	7	35
Benzene	25.00	24.12	96	65-135	5	35
Trichloroethene	25.00	25.51	102	65-135	5	35
Toluene	25.00	24.92	100	65-135	4	35
Chlorobenzene	25.00	25.06	100	65-135	5	35

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-120
1,2-Dichloroethane-d4	98	76-114
Toluene-d8	98	88-110
Bromofluorobenzene	93	86-115

RPD= Relative Percent Difference

8260 / 6450x w 1074

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH06.D

Date : 17-MAR-2006 12:08

Client ID: bfb tune std

Instrument: MSVOA09.i

Sample Info: BFB,S2327

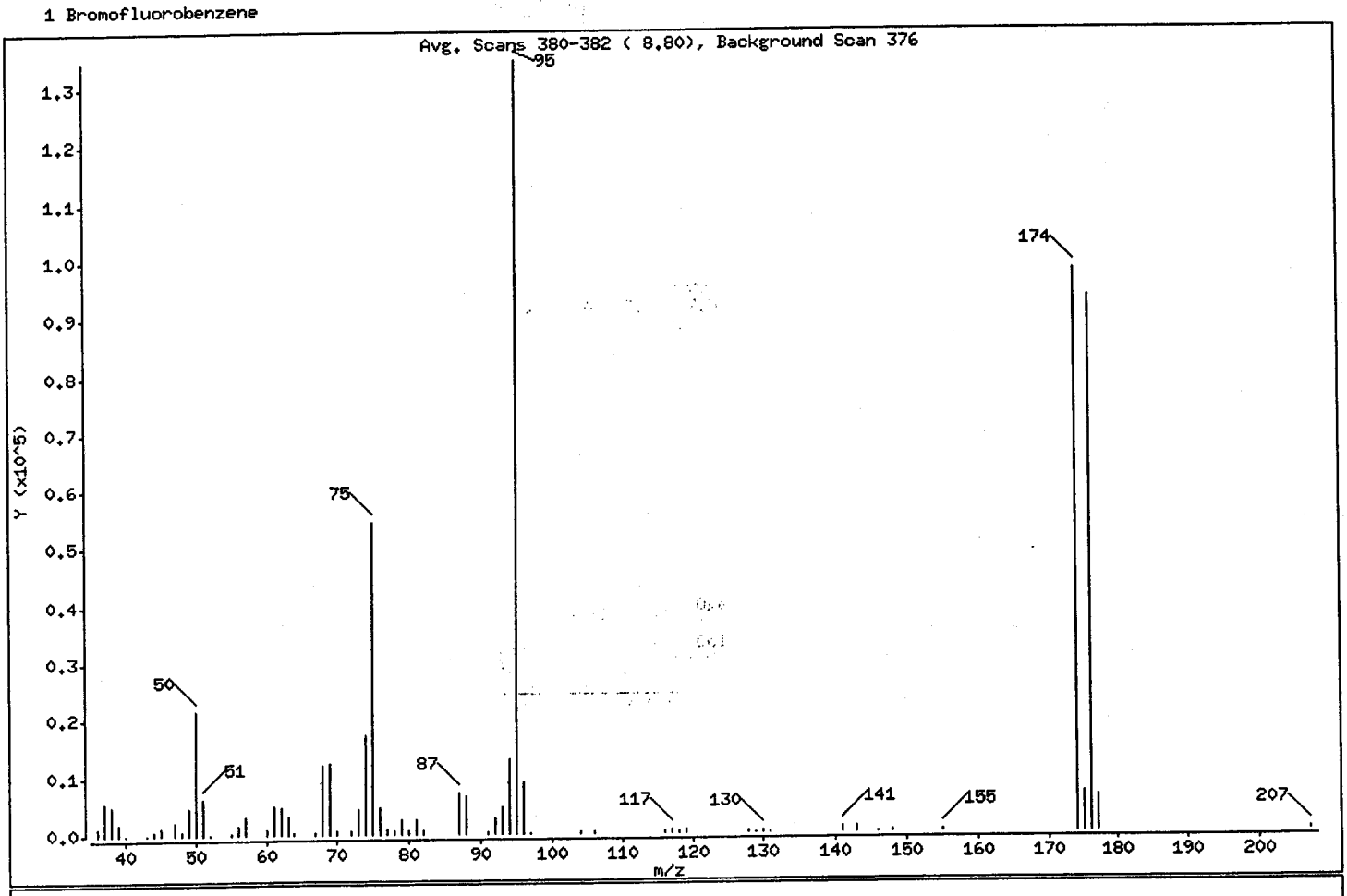
Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.06
75	30.00 - 60.00% of mass 95	40.39
96	5.00 - 9.00% of mass 95	6.77
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	72.78
175	5.00 - 9.00% of mass 174	5.12 (7.03)
176	95.01 - 100.99% of mass 174	69.49 (95.48)
177	5.00 - 9.00% of mass 176	4.49 (6.46)

m 3/20/06

Q 3/20/06

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\032306.b\ICN02.D

Date : 23-MAR-2006 08:16

Client ID: bfb tune std

Instrument: MSVOA09.i

Sample Info: BFB,S2327

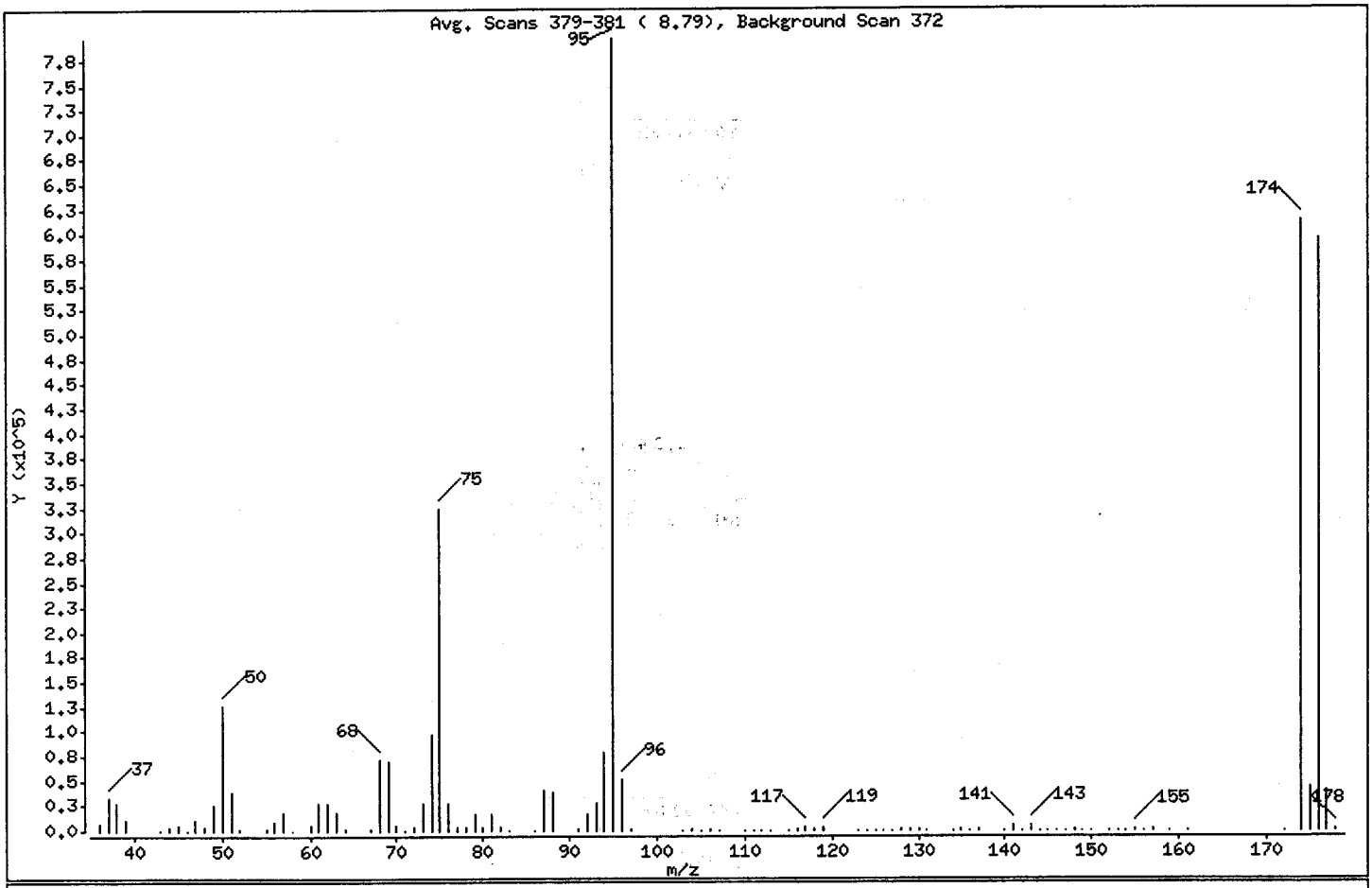
Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.93
75	30.00 - 60.00% of mass 95	40.60
96	5.00 - 9.00% of mass 95	6.45
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	77.08
175	5.00 - 9.00% of mass 174	5.55 (7.20)
176	95.01 - 100.99% of mass 174	74.69 (96.90)
177	5.00 - 9.00% of mass 176	5.00 (6.69)

AV 3/24/06

AV 03/24/06

MS VOA 10 8260X W. ICAL TUNE

Data File: \\GCMSSERVER\DD\chem\MSVOA10.i\031606.b\JCG06.D

Date : 16-MAR-2006 12:38

Client ID: bfb tune std

Instrument: MSVOA10.i

Sample Info: BFB,S2327

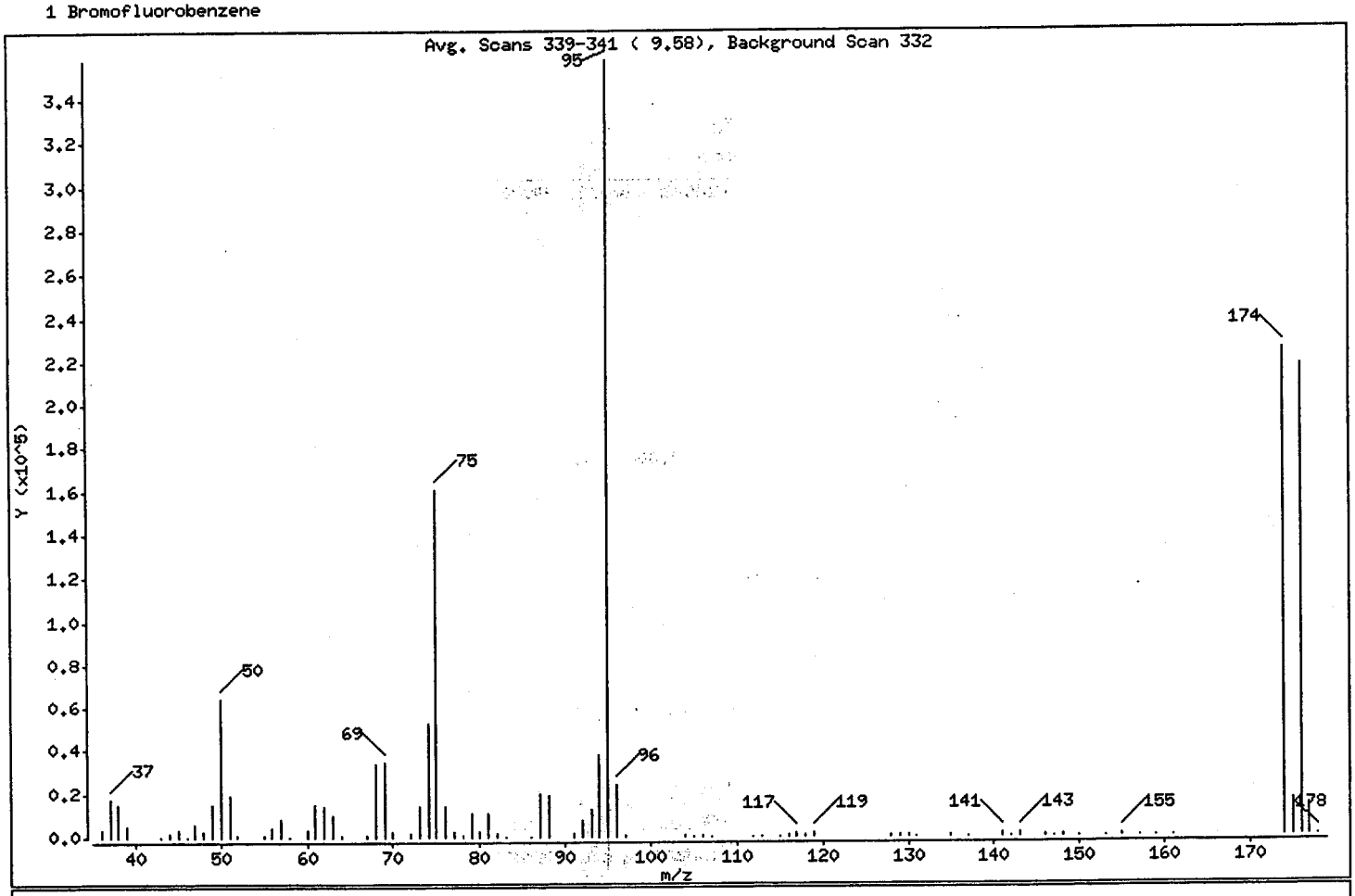
Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.02
75	30.00 - 60.00% of mass 95	44.93
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	62.83
175	5.00 - 9.00% of mass 174	4.55 (7.25)
176	95.01 - 100.99% of mass 174	60.80 (96.76)
177	5.00 - 9.00% of mass 176	3.85 (6.33)

03/17/06

3/17/06

Data File: \\GCMSSERVER\DD\chem\MSVOA10.i\032306.b\JCN01.D

Date : 23-MAR-2006 09:54

Client ID: bfb tune std

Instrument: MSVOA10.i

Sample Info: BFB,S2327

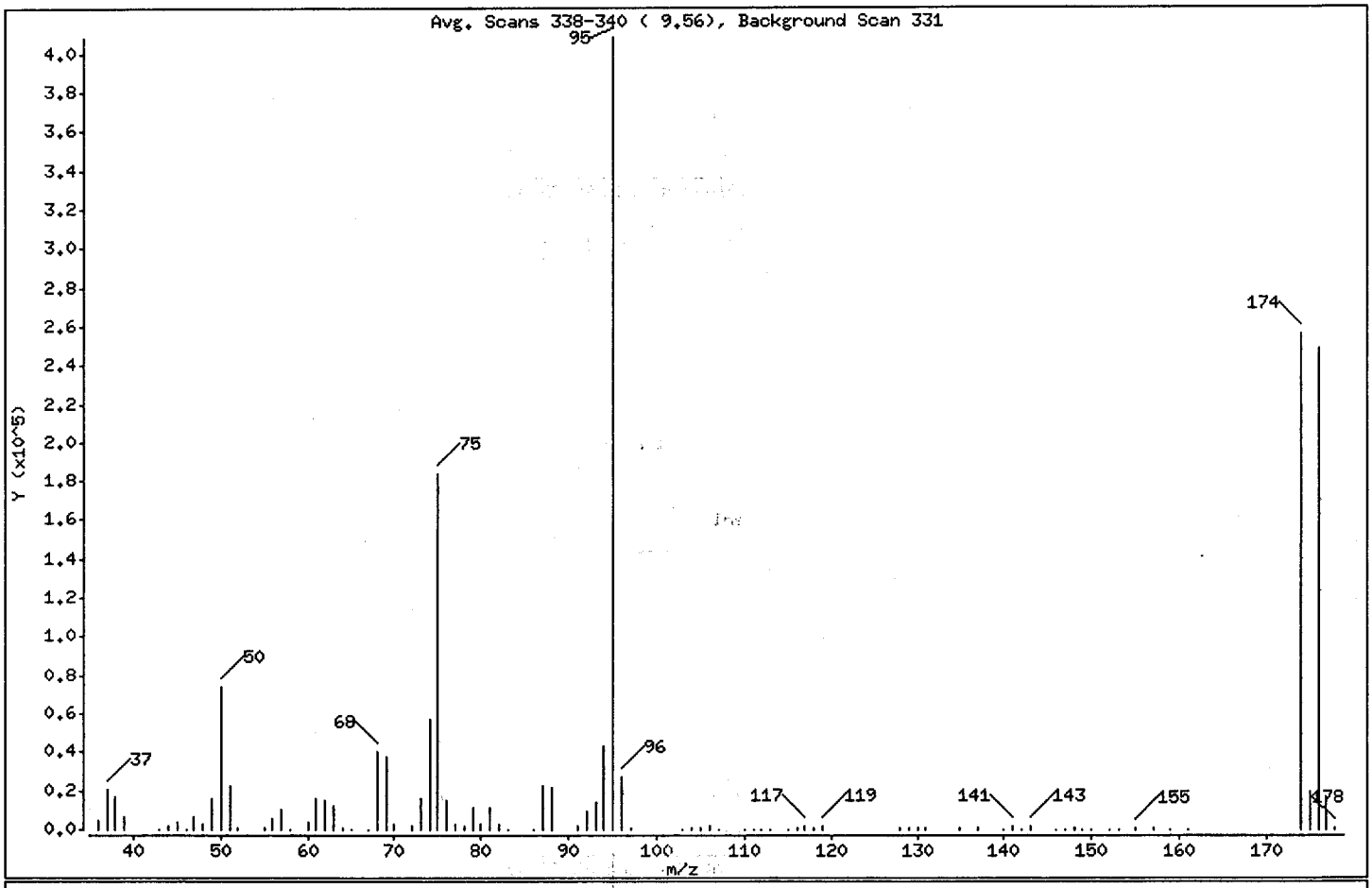
Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.13
75	30.00 - 60.00% of mass 95	45.13
96	5.00 - 9.00% of mass 95	6.74
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	62.88
175	5.00 - 9.00% of mass 174	4.74 (7.54)
176	95.01 - 100.99% of mass 174	61.00 (97.02)
177	5.00 - 9.00% of mass 176	4.07 (6.67)

03/24/06

Data File: \\GCMSSERVER\DD\chem\MSVOA10.i\032306.b\JCN08.D

Date : 23-MAR-2006 13:52

Client ID: bfb tune std

Instrument: MSVOA10.i

Sample Info: BFB,S2327

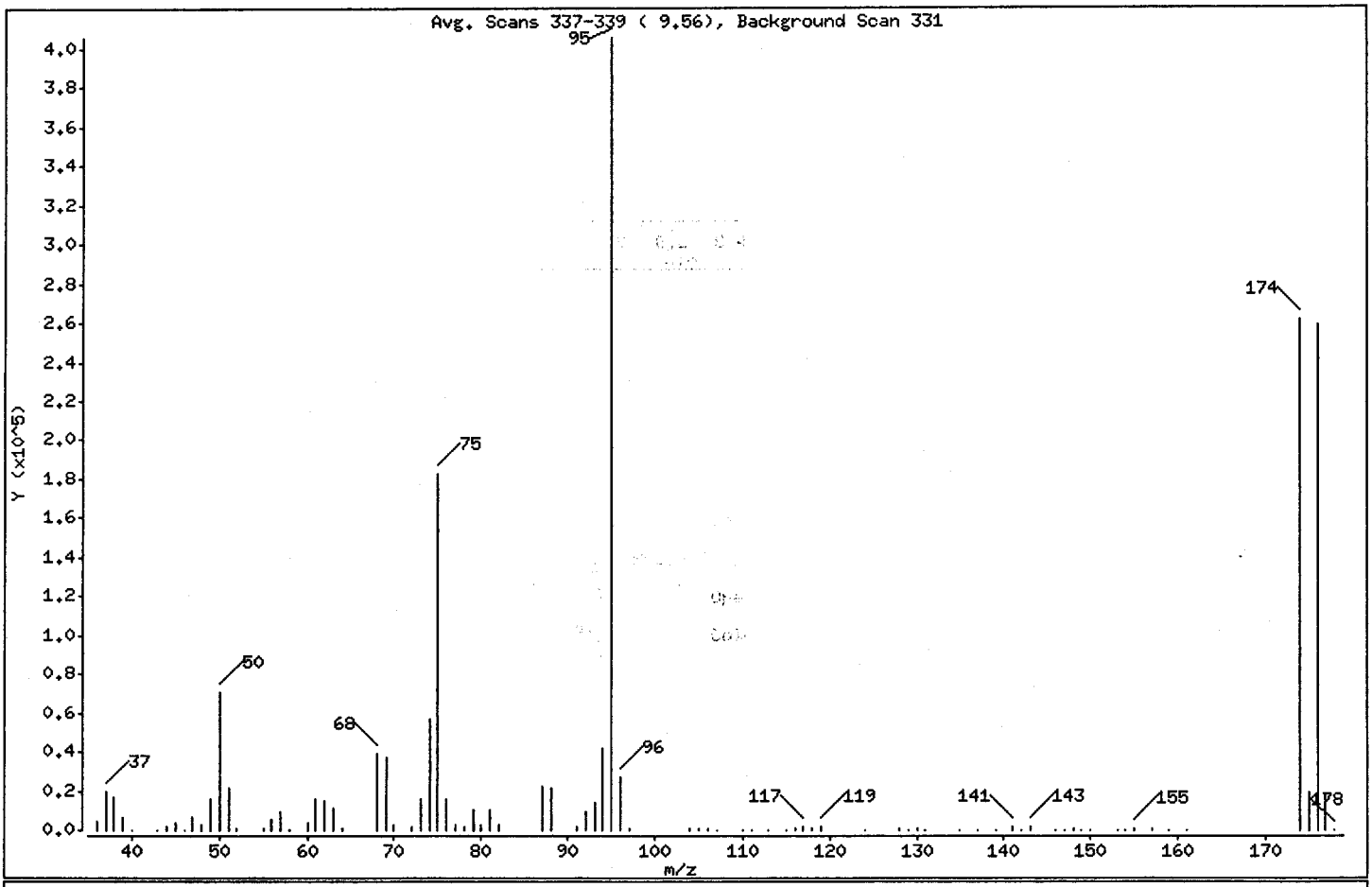
Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.40
75	30.00 - 60.00% of mass 95	44.99
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	64.64
175	5.00 - 9.00% of mass 174	4.76 (7.36)
176	95.01 - 100.99% of mass 174	63.79 (98.67)
177	5.00 - 9.00% of mass 176	4.30 (6.73)

8260/645x w ICAL

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 8260B

Inst : MSVOA09 Name : 826GOX9W
Calnum : 486109916001 Date : 17-MAR-2006 13:19 Type : WATER Inj Vol: 5000 uL
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	ich08	486109916008	0.25/0.5PPB	17-MAR-2006 13:19	S2844 (2000000X), S2783 (1000000X), S2410 (2000000X), S2743 (1000X)
L2	ich09	486109916009	0.5/1PPB	17-MAR-2006 13:53	S2844 (1000000X), S2783 (500000X), S2410 (1000000X), S2743 (1000X)
L3	ich10	486109916010	2PPB	17-MAR-2006 14:29	S2844 (250000X), S2783 (250000X), S2410 (500000X), S2743 (1000X)
L4	ich11	486109916011	5PPB	17-MAR-2006 15:04	S2844 (100000X), S2783 (100000X), S2410 (200000X), S2743 (1000X)
L5	ich12	486109916012	10PPB	17-MAR-2006 15:39	S2844 (50000X), S2783 (50000X), S2410 (100000X), S2743 (1000X)
L6	ich13	486109916013	20PPB	17-MAR-2006 16:14	S2844 (25000X), S2783 (25000X), S2410 (50000X), S2743 (1000X)
L7	ich14	486109916014	50PPB	17-MAR-2006 16:48	S2844 (10000X), S2783 (10000X), S2410 (20000X), S2743 (1000X)
L8	ich15	486109916015	75PPB	17-MAR-2006 17:25	S2844 (6667X), S2783 (6667X), S2410 (13330X), S2743 (1000X)
L9	ich16	486109916016	100PPB	17-MAR-2006 17:59	S2844 (5000X), S2783 (5000X), S2410 (10000X), S2743 (1000X)

* ICAL - OK
* - high pt dropped for TBA
- 2 for Hexclbdn (high pts)
* ICV - Hexclbdn↑, Cyclhxn↓
Acetone - CS2↓

12/3/2006

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12	1.4596m	1.4498m	1.1910m	1.2715	1.6658	1.4096	1.4677	1.5836	1.4301	AVRG		0.69612		1.4365	10	15	0.050	0.99	
Chloromethane	2.3742m	2.3055m	2.1986m	2.0721	2.4750	2.1663	2.0305	2.0099	1.8188	AVRG		0.46270		2.1612	9	15	0.10	0.99	
Vinyl Chloride	1.7412m	1.7331m	1.6110m	1.5496	1.9474	1.6941	1.6753	1.7787	1.5976	AVRG		0.58716		1.7031	7	15	0.050	0.99	
Bromomethane	0.4844m	0.4272m	0.5713m	0.5552m	0.6988	0.7023	0.7958	0.8590	0.8418	QUAD	1.01905	1.25796	-0.00114	0.6595	0.999	15	0.050	0.99	
Chloroethane	0.9810m	0.9439	0.8955	0.8852m	1.0739	0.9373	0.9346	0.9614	0.8931	AVRG		1.05809		0.9451	6	15	0.050	0.99	
Trichlorofluoromethane	1.8571	1.8811	1.5088	1.5055	1.9515	1.6730	1.6648	1.8109	1.7057	AVRG		0.57847		1.7287	9	15	0.050	0.99	
Acetone			0.4358	0.4592	0.5027	0.5056	0.4825	0.4590	0.4519	AVRG		2.12339		0.4709	6	15	0.050	0.99	
Freon 113		1.0297	0.9127	0.8376	1.1322	1.0349	0.8830	1.2389	1.1159	AVRG		0.97740		1.0231	13	15	0.050	0.99	
1,1-Dichloroethene		0.9900	0.9726	0.8985	1.1236	1.0100	0.9417	1.0375	0.9983	AVRG		1.00350		0.9965	7	15	0.050	0.99	
Methylene Chloride			1.4663	1.3637	1.4813	1.3892	1.3470	1.3132	1.2817	AVRG		0.72596		1.3775	5	15	0.050	0.99	
Carbon Disulfide	4.4291	4.4461	4.3851	3.9891	4.9212	4.4491	4.1226	4.3948	4.1535	AVRG		0.22906		4.3656	6	15	0.050	0.99	
MTBE	3.4380	3.3440	3.4755	3.3817	3.7561	3.5978	3.5509	3.4796	3.4088	AVRG		0.28633		3.4925	4	15	0.050	0.99	
trans-1,2-Dichloroethene	1.2411	1.2695	1.1800	1.1996	1.3984	1.2385	1.1784	1.1964	1.1839	AVRG		0.81185		1.2317	6	15	0.050	0.99	
Vinyl Acetate			3.2336m	3.0503	3.0576	3.2400	2.9773	3.0411	2.6690	AVRG		0.32912		3.0384	6	15	0.050	0.99	
1,1-Dichloroethane	2.1191	2.1683	2.3190	2.2072	2.5623	2.2861	2.1898	2.1154	2.0644	AVRG		0.44929		2.2257	7	15	0.10	0.99	
2-Butanone				0.6432	0.7104	0.6854	0.6847	0.6635	0.6142	AVRG		1.49944		0.6669	5	15	0.050	0.99	
2,2-Dichloropropane	1.2240	1.2916	1.3623	1.2996	1.4950	1.3931	1.2477	1.3378	1.2800	AVRG		0.75433		1.3257	6	15	0.050	0.99	
cis-1,2-Dichloroethene	1.3442	1.3485	1.4189	1.3069	1.4757	1.3885	1.3314	1.2948	1.2919	AVRG		0.73766		1.3556	5	15	0.050	0.99	
Chloroform	2.2842	2.1476	2.0973	1.9996	2.2676	2.0790	1.9852	1.9363	1.9285	AVRG		0.48063		2.0806	6	15	0.050	0.99	
Bromochloromethane	0.6067	0.5749	0.6691	0.6530	0.7179	0.6770	0.6630	0.6456	0.6395	AVRG		1.53933		0.6496	6	15	0.050	0.99	
1,1,1-Trichloroethane	1.5382	1.3380	1.4097	1.3123	1.5694	1.4183	1.2786	1.4150	1.3598	AVRG		0.71206		1.4044	7	15	0.050	0.99	
1,1-Dichloropropene		0.8464	0.8545	0.7844	0.9696	0.8772	0.7903	0.8906	0.8336	AVRG		1.16848		0.8558	7	15	0.050	0.99	
Carbon Tetrachloride	0.5885	0.6530	0.6242	0.6013	0.7160	0.6544	0.5918	0.7006	0.6596	AVRG		1.55457		0.6433	7	15	0.050	0.99	
1,2-Dichloroethane	0.8293	0.7986	0.8341	0.8131	0.8524	0.8401	0.8103	0.7864	0.7733	AVRG		1.22654		0.8153	3	15	0.050	0.99	

486109916001

03/20/06

8260/6400 w ICAL

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene	3.0139	2.9116	2.8380	2.6831	3.0934	2.8437	2.6781	2.6239	2.5732	AVRG		0.35631		2.8066	6	15	0.050	0.99	
Trichloroethene	0.6424	0.7013	0.6722	0.6397	0.7621	0.6744	0.6411	0.6550	0.6524	AVRG		1.48994		0.6712	6	15	0.050	0.99	
1,2-Dichloropropane	0.7500	0.7593	0.7931	0.7900	0.8703	0.8177	0.7816	0.7398	0.7111	AVRG		1.28334		0.7792	6	15	0.050	0.99	
Bromodichloromethane	0.8943	0.7953	0.8570	0.8382	0.9375	0.8949	0.8717	0.8475	0.8396	AVRG		1.15742		0.8640	5	15	0.050	0.99	
Dibromomethane		0.4906	0.4704	0.4889	0.5215	0.5072	0.5025	0.4835	0.4768	AVRG		2.02970		0.4927	3	15	0.050	0.99	
2-Chloroethylvinylether				0.2695	0.2943	0.3036	0.3038	0.3117	0.2821	AVRG		3.39941		0.2942	5	15	0.050	0.99	
4-Methyl-2-Pentanone				0.7157	0.7596	0.7684	0.7685	0.7654	0.6877	AVRG		1.34366		0.7442	5	15	0.050	0.99	
Tetramethyl THF	1.2705m	1.3148m	1.4218m	1.4064	1.4797	1.4998	1.4678	1.4003	1.2913	AVRG		0.71699		1.3947	6	15	0.050	0.99	
cis-1,3-Dichloropropene	1.1175	1.1143	1.1736	1.1236	1.2599	1.2038	1.1530	1.0983	1.0813	AVRG		0.87165		1.1472	5	15	0.050	0.99	
Toluene	1.6006	1.6032	1.5833	1.5613	1.7954	1.6527	1.5441	1.5705	1.5079	AVRG		0.62417		1.6021	5	15	0.050	0.99	
trans-1,3-Dichloropropene	0.9470	0.9700	0.9638	0.9784	1.0661	1.0496	1.0204	0.9928	0.9667	AVRG		1.00505		0.9950	4	15	0.050	0.99	
1,1,2-Trichloroethane	0.3316	0.3338	0.3538	0.3581	0.3725	0.3586	0.3529	0.3469	0.3364	AVRG		2.86210		0.3494	4	15	0.050	0.99	
2-Hexanone				0.5796	0.6335	0.6373	0.6542	0.6451	0.5993	AVRG		1.60042		0.6248	5	15	0.050	0.99	
1,3-Dichloropropane	1.3903	1.2848	1.3744	1.3693	1.4448	1.4144	1.3911	1.3378	1.3153	AVRG		0.73039		1.3691	4	15	0.050	0.99	
Tetrachloroethene	0.6198	0.7412	0.6500	0.6465	0.7799	0.6913	0.6285	0.7453	0.7215	AVRG		1.44603		0.6915	8	15	0.050	0.99	
Dibromochloromethane	0.8529	0.7490	0.8354	0.8527	0.8923	0.8714	0.8777	0.8489	0.8538	AVRG		1.17892		0.8482	5	15	0.050	0.99	
1,2-Dibromoethane	0.7080	0.6569	0.7022	0.7061	0.7459	0.7460	0.7333	0.7140	0.6910	AVRG		1.40548		0.7115	4	15	0.050	0.99	
Chlorobenzene	2.3658	2.3905	2.2882	2.1615	2.4230	2.2476	2.1710	2.1497	2.0933	AVRG		0.44355		2.2545	5	15	0.30	0.99	
1,1,1,2-Tetrachloroethane	0.7235	0.7582	0.7378	0.7465	0.8051	0.7601	0.7390	0.7205	0.7107	AVRG		1.34300		0.7446	4	15	0.050	0.99	
Ethylbenzene	3.6185	3.6820	3.6295	3.5753	4.0225	3.6497	3.3672	3.5124	3.2776	AVRG		0.27834		3.5927	6	15	0.050	0.99	
m,p-Xylenes	1.2131	1.3241	1.3859	1.3380	1.5192	1.3917	1.2771	1.3156	1.2349	AVRG		0.75002		1.3333	7	15	0.050	0.99	
o-Xylene	1.3537	1.3424	1.3738	1.3213	1.4941	1.3832	1.3124	1.3156	1.2719	AVRG		0.73963		1.3520	5	15	0.050	0.99	
Styrene	2.1298	2.1607	2.2832	2.3602	2.6155	2.4596	2.3903	2.3455	2.2826	AVRG		0.42801		2.3364	6	15	0.050	0.99	
Bromoform	0.6239	0.6283	0.5935	0.5888	0.6258	0.6248	0.6317	0.6176	0.6098	AVRG		1.62332		0.6160	3	15	0.10	0.99	
Isopropylbenzene	7.1021	7.3496	6.7485	6.6122	7.9115	7.1914	6.4550	7.4067	6.9653	AVRG		0.14119		7.0825	6	15	0.050	0.99	
1,1,2,2-Tetrachloroethane	2.4170	2.4824	2.5610	2.5053	2.5750	2.5306	2.4536	2.4768	2.3579	AVRG		0.40251		2.4844	3	15	0.30	0.99	
1,2,3-Trichloropropane		0.5796	0.6350	0.6042	0.6448	0.6337	0.6217	0.6148	0.5837	AVRG		1.62690		0.6147	4	15	0.050	0.99	
Propylbenzene	8.6272	9.5487	8.5541	8.5777	10.138	9.1856	8.0743	9.1880	8.5930	AVRG		0.11182		8.9430	7	15	0.050	0.99	
Bromobenzene	2.0653	2.1073	1.9658	1.9069	2.1252	2.0130	1.9683	1.9848	1.9819	AVRG		0.49673		2.0132	4	15	0.050	0.99	
1,3,5-Trimethylbenzene	5.4451	5.9822	5.5241	5.5387	6.4415	6.0374	5.4209	5.9357	5.6141	AVRG		0.17328		5.7711	6	15	0.050	0.99	
2-Chlorotoluene	6.0411	6.2109	6.2346	6.0006	6.8652	6.3441	5.9110	6.0647	5.8198	AVRG		0.16219		6.1658	5	15	0.050	0.99	
4-Chlorotoluene	6.0521	5.9535	5.8409	5.6779	6.3836	5.8608	5.5953	5.6436	5.4354	AVRG		0.17161		5.8270	5	15	0.050	0.99	
tert-Butylbenzene	4.6133	4.5704	4.3029	4.2818	5.0859	4.6801	3.9854	4.9093	4.5410	AVRG		0.21967		4.5522	7	15	0.050	0.99	
1,2,4-Trimethylbenzene	5.7529	5.4546	5.6523	5.7321	6.6000	6.1689	5.5963	5.9721	5.7916	AVRG		0.17071		5.8579	6	15	0.050	0.99	
sec-Butylbenzene	6.3269	7.1340	6.8308	6.4623	8.0864	7.4917	6.2483	7.8342	7.0884	AVRG		0.14173		7.0559	9	15	0.050	0.99	
para-Isopropyl Toluene	4.7325	5.0890	5.0645	5.0737	6.1937	5.7693	4.8890	5.9326	5.4757	AVRG		0.18664		5.3578	9	15	0.050	0.99	
1,3-Dichlorobenzene	3.6538	3.3866	3.4475	3.3958	3.7476	3.6270	3.4290	3.5404	3.4559	AVRG		0.28406		3.5204	4	15	0.050	0.99	
1,4-Dichlorobenzene	3.8617	3.4936	3.5871	3.5518	3.9129	3.7465	3.5556	3.6211	3.5730	AVRG		0.27353		3.6559	4	15	0.050	0.99	
n-Butylbenzene		4.4626	4.3192	4.5090	5.7479	5.3739	4.4574	5.4484	5.0420	AVRG		0.20325		4.9201	11	15	0.050	0.99	
1,2-Dichlorobenzene	3.5236	3.1587	3.2644	3.2004	3.5912	3.4082	3.2852	3.2980	3.2313	AVRG		0.30039		3.3290	4	15	0.050	0.99	
1,2-Dibromo-3-Chloropropane		0.2295	0.3467	0.3881	0.4033	0.3787	0.3535	0.3466	0.3306	AVRG		2.88076		0.3471	15	15	0.050	0.99	

8260 / 6450X LW 10/

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,4-Trichlorobenzene	1.0288	0.9366	1.1720	1.4340	1.7657	1.7322	1.6154	1.7073	1.7123	QUAD	0.08918	0.61412	-0.00018	1.4560	1.000	15	0.050	0.99	
Hexachlorobutadiene		0.4234	0.4849	0.5295	0.6576	0.5975	0.4074			QUAD	1.40058	0.64143	0.084895	0.5167	0.997	15	0.050	0.99	
Naphthalene	2.1084	1.8642	2.3828	3.1432	4.1607	4.1823	4.1587	4.2865	4.3310	QUAD	0.46551	0.24119	-2.65E-5	3.4020	1.000	15	0.050	0.99	
1,2,3-Trichlorobenzene	0.5461	0.8456	0.9142	1.2628	1.5665	1.5717	1.5047	1.5746	1.5909	QUAD	0.26613	0.66536	-0.00024	1.2641	1.000	15	0.050	0.99	
tert-Butyl Alcohol (TBA)		0.0358	0.0983m	0.1120m	0.1141m	0.1185m	0.1188m	0.1190m		LINR	3.33952	8.36346		0.1024	1.000	15	0.005	0.99	
Isopropyl Ether (DIPE)	4.9241	4.9064	5.0266	4.9688	5.5341	5.3384	5.1368	4.9361	4.7558	AVRG		0.19768		5.0586	5	15	0.050	0.99	
Ethyl tert-Butyl Ether (ETBE)	3.9775	3.5304	3.6401	3.5878	3.9811	3.8639	3.7349	3.6647	3.5747	AVRG		0.26822		3.7283	5	15	0.050	0.99	
Methyl tert-Amyl Ether (TAME)	1.9079	1.7981	1.9809	1.8300	2.0358	2.0396	1.9601	1.9399	1.9016	AVRG		0.51743		1.9326	4	15	0.050	0.99	
Cyclohexanone		0.1709	0.0901	0.1602	0.2641	0.2517	0.2532	0.2250	0.2640	LINR	12.2446	3.90681		0.2099	0.991	15	0.005	0.99	
Ethanol		0.0202m	0.0198m	0.0199	0.0194	0.0200	0.0195	0.0192	0.0170	AVRG		51.5867		0.0194	5	15	0.0005	0.99	
Isopropanol			0.0817m	0.0882m	0.0853	0.0887	0.0909	0.0874	0.0789	AVRG		11.6451		0.0859	5	15	0.005	0.99	
Tetrahydrofuran	0.4513	0.4187	0.3932	0.3752	0.4031	0.3829	0.3604	0.3470	0.3089	AVRG		2.61585		0.3823	11	15	0.005	0.99	
Dibromofluoromethane	0.5646	0.5804	0.5827	0.5747	0.5820	0.5753	0.5713	0.5714	0.5611	AVRG		1.74300		0.5737	1	15	0.050	0.99	
1,2-Dichloroethane-d4	0.3058	0.3161	0.3118	0.3122	0.3131	0.3134	0.3027	0.2992	0.2890	AVRG		3.25674		0.3071	3	15	0.050	0.99	
Trifluorotoluene	0.7919	0.8902	0.8251	0.7633	0.9175	0.8524	0.7623	0.9479	0.8847	AVRG		1.17875		0.8484	8	15	0.050	0.99	
Toluene-d8	0.9628	0.9588	0.9765	0.9666	0.9542	0.9636	0.9620	0.9744	0.9533	AVRG		1.03781		0.9636	1	15	0.050	0.99	
Bromofluorobenzene	1.1418	1.1407	1.1499	1.1360	1.1381	1.1495	1.1353	1.1453	1.1482	AVRG		0.87508		1.1428	0	15	0.050	0.99	

105

m=manual integration for incomplete integration in Target

AVRG=Average response factor LINR=Linear regression QUAD=Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

486109916001

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH08.D
Report Date: 20-Mar-2006 09:43

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH08.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-MAR-2006 13:19 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2844,0.0005/1000,S2783,0.001/1000
Misc Info : S2410,0.0005/1000,0.25/0.5PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\826GOX9W.m
Meth Date : 20-Mar-2006 09:43 target Quant Type: ISTD
Cal Date : 17-MAR-2006 13:19 Cal File: ICH08.D
Als bottle: 8 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.163	4.163	(0.372)	5779	0.50000	0.5280(M)
2 Chloromethane	50	4.656	4.656	(0.416)	9400	0.50000	0.6361(M)
3 Vinyl Chloride	62	4.824	4.824	(0.431)	6894	0.50000	0.5184(M)
4 Bromomethane	94	5.543	5.543	(0.496)	1918	0.50000	0.3988(aM)
5 Chloroethane	64	5.741	5.741	(0.513)	3884	0.50000	0.5445(M)
6 Trichlorofluoromethane	101	6.184	6.184	(0.553)	7353	0.50000	0.5371
7 Ethanol	45	6.628	6.628	(0.593)	3216	25.0000	22.2708(M)
8 Freon 113	101	7.161	7.161	(0.640)	1171	0.25000	0.1516(a)
9 1,1-Dichloroethene	96	7.220	7.220	(0.646)	1769	0.25000	0.2267(a)
10 Acetone	43	7.417	7.417	(0.663)	1722	0.25000	0.4080(a)
11 Isopropanol	45	7.605	7.605	(0.680)	602	2.50000	0.9381
12 Carbon Disulfide	76	7.654	7.654	(0.684)	8768	0.25000	0.2536(a)
13 Methylene Chloride	84	8.196	8.196	(0.733)	3093	0.25000	0.2788(a)
14 tert-Butyl Alcohol (TBA)	59	8.315	8.315	(0.743)	336	2.50000	0.6350(M)
15 MTBE	73	8.542	8.542	(0.764)	6806	0.25000	0.2460(a)
16 trans-1,2-Dichloroethene	96	8.591	8.591	(0.768)	2457	0.25000	0.2519(a)

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH08.D
Report Date: 20-Mar-2006 09:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	9.331	9.331	(0.834)	9748	0.25000	0.2433(a)
	18 1,1-Dichloroethane	63	9.390	9.390	(0.840)	4195	0.25000	0.2380(a)
	19 Vinyl Acetate	43	9.409	9.409	(0.841)	6276	0.25000	0.2638(a)
	20 Ethyl tert-Butyl Ether (ETBE)	59	9.952	9.952	(0.890)	7874	0.25000	0.2667(a)
	21 2,2-Dichloropropane	77	10.356	10.356	(0.926)	2423	0.25000	0.2308(a)
	22 cis-1,2-Dichloroethene	96	10.396	10.396	(0.929)	2661	0.25000	0.2478(a)
	23 2-Butanone	43	10.406	10.406	(0.930)	1129	0.25000	0.2137(aM) m3/20/06
	24 Bromochloromethane	128	10.800	10.800	(0.966)	1201	0.25000	0.2334(a)
	25 Tetrahydrofuran	42	10.830	10.830	(0.968)	8934	2.50000	2.9512
	26 Chloroform	83	10.879	10.879	(0.973)	4522	0.25000	0.2744(a)
$	27 Dibromofluoromethane	113	11.165	11.165	(0.998)	223523	50.0000	49.2006
	28 1,1,1-Trichloroethane	97	11.175	11.175	(0.999)	3045	0.25000	0.2738(a)
*	29 Pentafluorobenzene	168	11.185	11.185	(1.000)	395930	50.0000	
	30 Carbon Tetrachloride	117	11.392	11.392	(0.917)	1965	0.25000	0.2287(a)
	31 1,1-Dichloropropene	75	11.441	11.441	(0.921)	2376	0.25000	0.2118(a)
$	32 1,2-Dichloroethane-d4	65	11.786	11.786	(0.948)	204194	50.0000	49.7935
	33 Benzene	78	11.786	11.786	(0.948)	10063	0.25000	0.2684(a)
	34 Methyl tert-Amyl Ether (TAME)	73	11.875	11.875	(0.956)	6370	0.25000	0.2467(a)
	35 1,2-Dichloroethane	62	11.924	11.924	(0.960)	2769	0.25000	0.2543(a)
*	36 1,4-Difluorobenzene	114	12.427	12.427	(1.000)	667763	50.0000	
	37 Trichloroethene	95	12.851	12.851	(1.034)	2145	0.25000	0.2393(a)
	38 1,2-Dichloropropane	63	13.305	13.305	(1.071)	2504	0.25000	0.2406(a)
$	39 Trifluorotoluene	146	13.325	13.325	(1.072)	2644	0.25000	0.2333(a)
	40 Dibromomethane	93	13.522	13.522	(1.088)	1219	0.25000	0.1907(a)
	41 Bromodichloromethane	83	13.729	13.729	(1.105)	2986	0.25000	0.2587(a)
	42 2-Chloroethylvinylether	63	14.193	14.193	(1.142)	1416	0.25000	0.3604(a)
	43 Tetramethyl THF	43	14.459	14.459	(1.163)	4242	0.25000	0.2387(aM) m3/20/06
	44 cis-1,3-Dichloropropene	75	14.469	14.469	(1.164)	3731	0.25000	0.2435(a)
	45 4-Methyl-2-Pentanone	43	14.686	14.686	(1.182)	1489	0.25000	0.1498(aM)
$	46 Toluene-d8	98	14.844	14.844	(1.194)	642891	50.0000	49.9577
	47 Toluene	92	14.952	14.952	(1.203)	5344	0.25000	0.2497(a)
	48 trans-1,3-Dichloropropene	75	15.347	15.347	(1.235)	3162	0.25000	0.2379(a)
	49 1,1,2-Trichloroethane	85	15.642	15.642	(1.259)	1107	0.25000	0.2372(a)
	50 Tetrachloroethene	166	15.751	15.751	(0.927)	1662	0.25000	0.2240(a)
	51 1,3-Dichloropropane	76	15.899	15.899	(0.936)	3728	0.25000	0.2538(a)
	52 2-Hexanone	43	15.948	15.948	(0.939)	532	0.25000	0.0793(a)
	53 Dibromochloromethane	129	16.195	16.195	(0.954)	2287	0.25000	0.2513(a)
	54 1,2-Dibromoethane	107	16.402	16.402	(1.320)	2364	0.25000	0.2487(a)
*	55 Chlorobenzene-d5	117	16.984	16.984	(1.000)	536304	50.0000	
	56 Chlorobenzene	112	17.023	17.023	(1.002)	6344	0.25000	0.2623(a)
	57 Ethylbenzene	91	17.102	17.102	(1.007)	9703	0.25000	0.2517(a)
	58 1,1,1,2-Tetrachloroethane	131	17.122	17.122	(1.008)	1940	0.25000	0.2429(a)
	59 m,p-Xylenes	106	17.260	17.260	(1.016)	6506	0.50000	0.4549(a)
	60 o-Xylene	106	17.782	17.782	(1.047)	3630	0.25000	0.2503(a)
	61 Styrene	104	17.812	17.812	(1.049)	5711	0.25000	0.2278(a)
	62 Bromoform	173	18.098	18.098	(1.066)	1673	0.25000	0.2531(a)
	63 Isopropylbenzene	105	18.207	18.207	(0.919)	8401	0.25000	0.2506(a)

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH08.D
Report Date: 20-Mar-2006 09:43

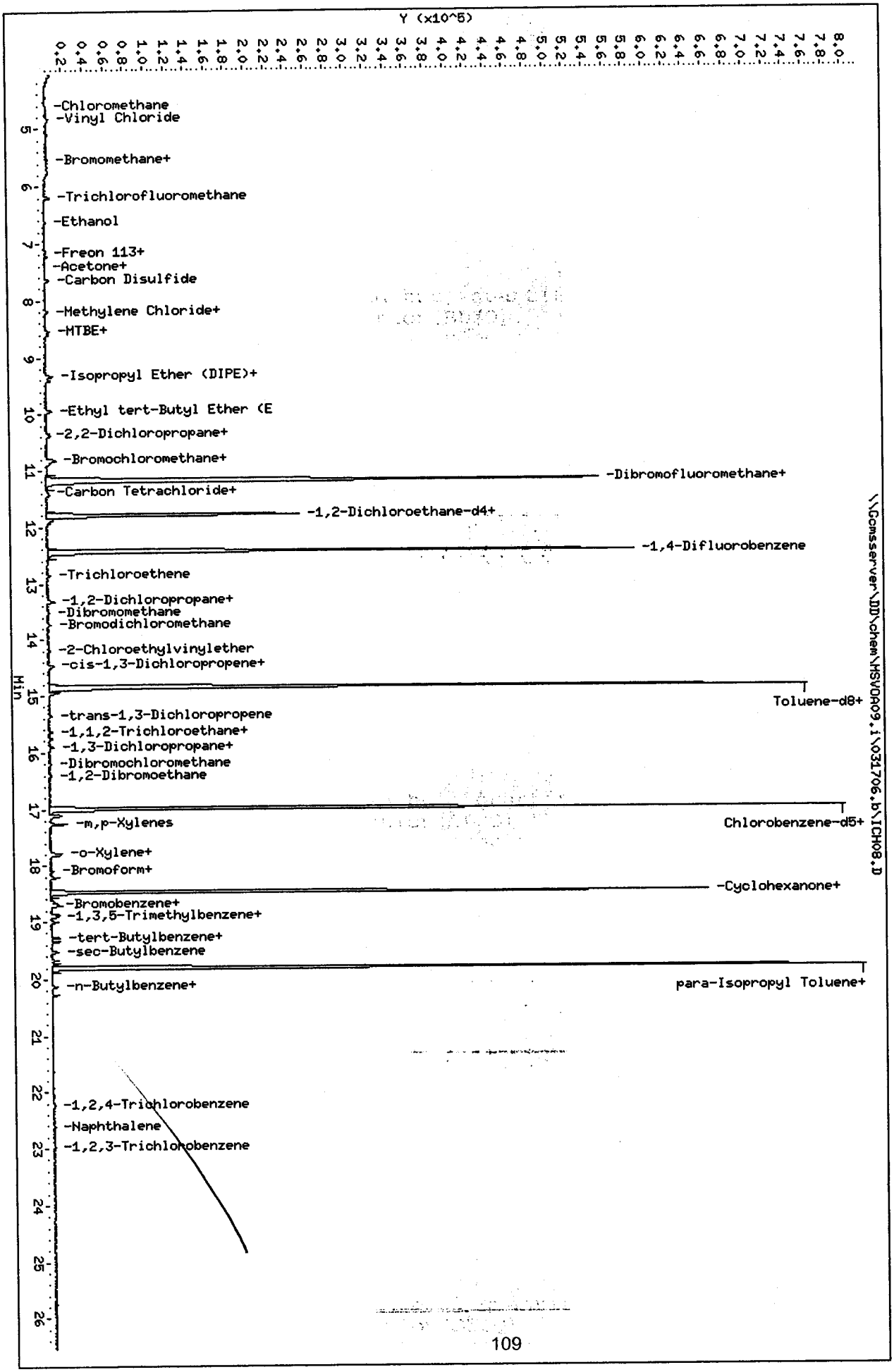
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone	55	18.463	18.463	(0.932)	2140	2.50000	2.1546
$ 65 Bromofluorobenzene	95	18.473	18.473	(0.933)	270125	50.0000	49.9581
66 1,1,2,2-Tetrachloroethane	83	18.631	18.631	(0.941)	2859	0.25000	0.2432(a)
67 Bromobenzene	156	18.680	18.680	(0.943)	2443	0.25000	0.2564(a)
68 Propylbenzene	91	18.710	18.710	(0.945)	10205	0.25000	0.2411(a)
69 1,2,3-Trichloropropane	110	18.710	18.710	(0.945)	584	0.25000	0.2052(a)
70 2-Chlorotoluene	91	18.867	18.867	(0.953)	7146	0.25000	0.2449(a)
71 1,3,5-Trimethylbenzene	105	18.907	18.907	(0.955)	6441	0.25000	0.2358(a)
72 4-Chlorotoluene	91	18.996	18.996	(0.959)	7159	0.25000	0.2596(a)
73 tert-Butylbenzene	119	19.282	19.282	(0.974)	5457	0.25000	0.2533(a)
74 1,2,4-Trimethylbenzene	105	19.341	19.341	(0.977)	6805	0.25000	0.2455(a)
75 sec-Butylbenzene	105	19.518	19.518	(0.986)	7484	0.25000	0.2241(a)
76 para-Isopropyl Toluene	119	19.666	19.666	(0.993)	5598	0.25000	0.2208(a)
77 1,3-Dichlorobenzene	146	19.725	19.725	(0.996)	4322	0.25000	0.2594(a)
* 78 1,4-Dichlorobenzene-d4	152	19.804	19.804	(1.000)	236578	50.0000	
79 1,4-Dichlorobenzene	146	19.834	19.834	(1.001)	4568	0.25000	0.2640(a)
80 n-Butylbenzene	91	20.130	20.130	(1.016)	4495	0.25000	0.1980(a)
81 1,2-Dichlorobenzene	146	20.278	20.278	(1.024)	4168	0.25000	0.2646(a)
83 1,2,4-Trichlorobenzene	180	22.220	22.220	(1.122)	1217	0.25000	0.1766(a)
85 Naphthalene	128	22.605	22.605	(1.141)	2494	0.25000	0.1549(a)
86 1,2,3-Trichlorobenzene	180	22.970	22.970	(1.160)	646	0.25000	0.1080(a)

QC Flag Legend

a - Target compound detected but quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\HSVOA09.i\031706.b\ICH08.D
Date : 17-MAR-2006 13:19
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.0005/1000,S2783,0.001/1000
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA09.i
Operator: VOC
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH09.D
Report Date: 20-Mar-2006 09:43

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH09.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-MAR-2006 13:53 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2844,0.001/1000,S2783,0.002/1000
Misc Info : S2410,0.001/1000,0.5/1PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\826GOX9W.m
Meth Date : 20-Mar-2006 09:43 target Quant Type: ISTD
Cal Date : 17-MAR-2006 13:19 Cal File: ICH08.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.160	4.160	(0.372)	11672	1.00000	1.0179(M)
2 Chloromethane	50	4.653	4.653	(0.416)	18561	1.00000	1.1390(M)
3 Vinyl Chloride	62	4.821	4.821	(0.431)	13953	1.00000	1.0247(M)
4 Bromomethane	94	5.551	5.551	(0.496)	3439	1.00000	0.6740(M)
5 Chloroethane	64	5.758	5.758	(0.515)	7599	1.00000	1.0478
6 Trichlorofluoromethane	101	6.192	6.192	(0.554)	15144	1.00000	1.0881
7 Ethanol	45	6.626	6.626	(0.593)	8132	50.0000	54.9319(M)
8 Freon 113	101	7.148	7.148	(0.639)	4145	0.50000	0.5279
9 1,1-Dichloroethene	96	7.227	7.227	(0.646)	3985	0.50000	0.5024
10 Acetone	43	7.395	7.395	(0.661)	2914	0.50000	0.6791
11 Isopropanol	45	7.602	7.602	(0.680)	2171	5.00000	3.3278(M)
12 Carbon Disulfide	76	7.651	7.651	(0.684)	17897	0.50000	0.5092
13 Methylene Chloride	84	8.194	8.194	(0.733)	5972	0.50000	0.5296
14 tert-Butyl Alcohol (TBA)	59	8.312	8.312	(0.743)	1443	5.00000	2.6823
15 MTBE	73	8.539	8.539	(0.764)	13461	0.50000	0.4787(a)
16 trans-1,2-Dichloroethene	96	8.588	8.588	(0.768)	5110	0.50000	0.5153

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Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH09.D
Report Date: 20-Mar-2006 09:43

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 Isopropyl Ether (DIPE)	45	9.318	9.318	(0.833)	19750	0.50000	0.4849(a)
18 1,1-Dichloroethane	63	9.397	9.397	(0.840)	8728	0.50000	0.4870(a)
19 Vinyl Acetate	43	9.407	9.407	(0.841)	11852	0.50000	0.4900(aM)
20 Ethyl tert-Butyl Ether (ETBE)	59	9.939	9.939	(0.889)	14211	0.50000	0.4734(a)
21 2,2-Dichloropropane	77	10.354	10.354	(0.926)	5199	0.50000	0.4871(a)
22 cis-1,2-Dichloroethene	96	10.383	10.383	(0.929)	5428	0.50000	0.4973(a)
23 2-Butanone	43	10.403	10.403	(0.930)	2361	0.50000	0.4397(a)
24 Bromochloromethane	128	10.797	10.797	(0.966)	2314	0.50000	0.4424(a)
25 Tetrahydrofuran	42	10.817	10.817	(0.967)	16853	5.00000	5.4759
26 Chloroform	83	10.886	10.886	(0.974)	8645	0.50000	0.5161
$ 27 Dibromofluoromethane	113	11.162	11.162	(0.998)	233617	50.0000	50.5786
28 1,1,1-Trichloroethane	97	11.172	11.172	(0.999)	5386	0.50000	0.4763(a)
* 29 Pentafluorobenzene	168	11.182	11.182	(1.000)	402536	50.0000	
30 Carbon Tetrachloride	117	11.399	11.399	(0.917)	4487	0.50000	0.5075
31 1,1-Dichloropropene	75	11.439	11.439	(0.921)	5816	0.50000	0.5039
$ 32 1,2-Dichloroethane-d4	65	11.784	11.784	(0.948)	217207	50.0000	51.4698
33 Benzene	78	11.794	11.794	(0.949)	20008	0.50000	0.5187
34 Methyl tert-Amyl Ether (TAME)	73	11.872	11.872	(0.956)	12356	0.50000	0.4651(a)
35 1,2-Dichloroethane	62	11.922	11.922	(0.960)	5488	0.50000	0.4897(a)
* 36 1,4-Difluorobenzene	114	12.425	12.425	(1.000)	687185	50.0000	
37 Trichloroethene	95	12.849	12.849	(1.034)	4819	0.50000	0.5224
38 1,2-Dichloropropane	63	13.312	13.312	(1.071)	5218	0.50000	0.4872(a)
$ 39 Trifluorotoluene	146	13.312	13.312	(1.071)	6117	0.50000	0.5246
40 Dibromomethane	93	13.519	13.519	(1.088)	3371	0.50000	0.5125
41 Bromodichloromethane	83	13.727	13.727	(1.105)	5465	0.50000	0.4602(a)
42 2-Chloroethylvinylether	63	14.190	14.190	(1.142)	3131	1.00000	0.7744
43 Tetramethyl THF	43	14.466	14.466	(1.164)	9035	0.50000	0.4888(aM)
44 cis-1,3-Dichloropropene	75	14.476	14.476	(1.165)	7657	0.50000	0.4856(a)
45 4-Methyl-2-Pentanone	43	14.693	14.693	(1.183)	4295	0.50000	0.4199(aM)
$ 46 Toluene-d8	98	14.841	14.841	(1.194)	658902	50.0000	49.7548
47 Toluene	92	14.949	14.949	(1.203)	11017	0.50000	0.5003
48 trans-1,3-Dichloropropene	75	15.354	15.354	(1.236)	6666	0.50000	0.4874(a)
49 1,1,2-Trichloroethane	85	15.630	15.630	(1.258)	2294	0.50000	0.4777(a)
50 Tetrachloroethene	166	15.748	15.748	(0.927)	4065	0.50000	0.5359
51 1,3-Dichloropropane	76	15.906	15.906	(0.937)	7046	0.50000	0.4691(a)
52 2-Hexanone	43	15.955	15.955	(0.940)	2649	0.50000	0.3865(a)
53 Dibromochloromethane	129	16.192	16.192	(0.954)	4108	0.50000	0.4415(a)
54 1,2-Dibromoethane	107	16.399	16.399	(1.320)	4514	0.50000	0.4616(a)
* 55 Chlorobenzene-d5	117	16.981	16.981	(1.000)	548430	50.0000	
56 Chlorobenzene	112	17.021	17.021	(1.002)	13110	0.50000	0.5301
57 Ethylbenzene	91	17.099	17.099	(1.007)	20193	0.50000	0.5124
58 1,1,1,2-Tetrachloroethane	131	17.129	17.129	(1.009)	4158	0.50000	0.5091
59 m,p-Xylenes	106	17.257	17.257	(1.016)	14523	1.00000	0.9930
60 o-Xylene	106	17.790	17.790	(1.048)	7362	0.50000	0.4964(a)
61 Styrene	104	17.810	17.810	(1.049)	11850	0.50000	0.4624(a)
62 Bromoform	173	18.096	18.096	(1.066)	3446	0.50000	0.5099
63 Isopropylbenzene	105	18.214	18.214	(0.920)	17930	0.50000	0.5188

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH09.D
Report Date: 20-Mar-2006 09:43

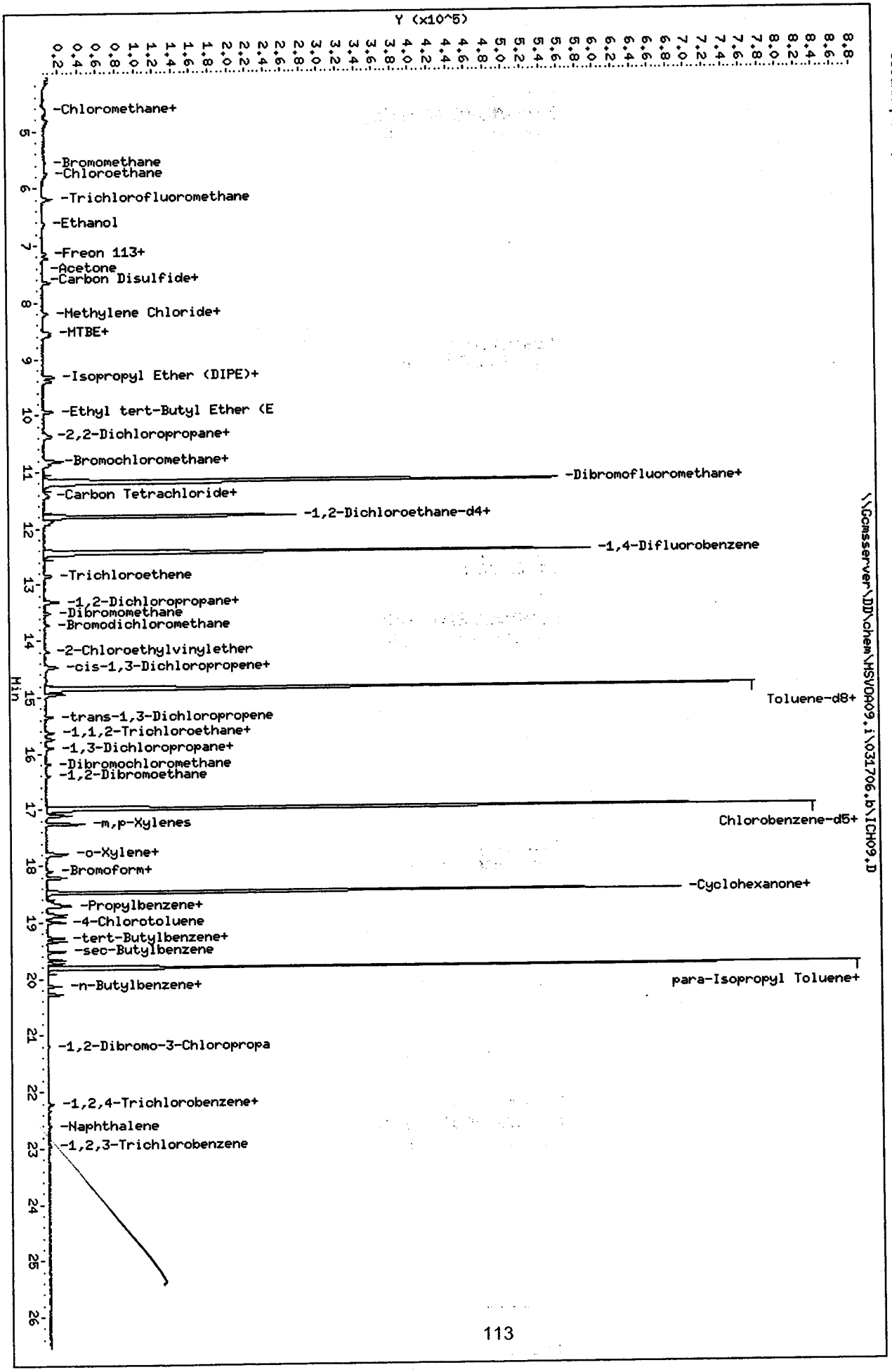
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone	55	18.460	18.460	(0.932)	4169	5.00000	4.0704
$ 65 Bromofluorobenzene	95	18.470	18.470	(0.933)	278287	50.0000	49.9105
66 1,1,2,2-Tetrachloroethane	83	18.628	18.628	(0.941)	6056	0.50000	0.4995(a)
67 Bromobenzene	156	18.668	18.668	(0.943)	5141	0.50000	0.5233
68 Propylbenzene	91	18.707	18.707	(0.945)	23295	0.50000	0.5338
69 1,2,3-Trichloropropane	110	18.717	18.717	(0.945)	1414	0.50000	0.4820(a)
70 2-Chlorotoluene	91	18.865	18.865	(0.953)	15152	0.50000	0.5036
71 1,3,5-Trimethylbenzene	105	18.904	18.904	(0.955)	14594	0.50000	0.5182
72 4-Chlorotoluene	91	19.003	19.003	(0.960)	14524	0.50000	0.5108
73 tert-Butylbenzene	119	19.279	19.279	(0.974)	11150	0.50000	0.5019
74 1,2,4-Trimethylbenzene	105	19.338	19.338	(0.977)	13307	0.50000	0.4655(a)
75 sec-Butylbenzene	105	19.516	19.516	(0.986)	17404	0.50000	0.5055
76 para-Isopropyl Toluene	119	19.664	19.664	(0.993)	12415	0.50000	0.4749(a)
77 1,3-Dichlorobenzene	146	19.733	19.733	(0.997)	8262	0.50000	0.4810(a)
* 78 1,4-Dichlorobenzene-d4	152	19.802	19.802	(1.000)	243959	50.0000	
79 1,4-Dichlorobenzene	146	19.831	19.831	(1.001)	8523	0.50000	0.4778(a)
80 n-Butylbenzene	91	20.127	20.127	(1.016)	10887	0.50000	0.4652(a)
81 1,2-Dichlorobenzene	146	20.275	20.275	(1.024)	7706	0.50000	0.4744(a)
82 1,2-Dibromo-3-Chloropropane	75	21.202	21.202	(1.071)	560	0.50000	0.3306(a)
83 1,2,4-Trichlorobenzene	180	22.218	22.218	(1.122)	2285	0.50000	0.3216(a)
84 Hexachlorobutadiene	225	22.336	22.336	(1.128)	1033	0.50000	0.4044(a)
85 Naphthalene	128	22.612	22.612	(1.142)	4548	0.50000	0.2739(a)
86 1,2,3-Trichlorobenzene	180	22.958	22.958	(1.159)	2063	0.50000	0.3344(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA09.i\031706.b\ICH09.D
Date : 17-MAR-2006 13:53
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.001/1000,S2783,0.002/1000
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: VOC
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH10.D
Report Date: 20-Mar-2006 09:43

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Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH10.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-MAR-2006 14:29 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2844,0.002/500,S2783,0.002/500
Misc Info : S2410,0.001/500,2PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\826GOX9W.m
Meth Date : 20-Mar-2006 09:43 target Quant Type: ISTD
Cal Date : 17-MAR-2006 13:19 Cal File: ICH08.D
Als bottle: 10 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.170	4.170	(0.373)	20080	2.00000	1.6582(M)
2 Chloromethane	50	4.653	4.653	(0.416)	37066	2.00000	2.0345(M)
3 Vinyl Chloride	62	4.821	4.821	(0.431)	27160	2.00000	1.8918(M)
4 Bromomethane	94	5.541	5.541	(0.496)	9632	2.00000	1.7630(M)
5 Chloroethane	64	5.758	5.758	(0.515)	15098	2.00000	1.9883
6 Trichlorofluoromethane	101	6.192	6.192	(0.554)	25437	2.00000	1.7455
7 Ethanol	45	6.626	6.626	(0.593)	33404	200.000	208.1704(M)
8 Freon 113	101	7.148	7.148	(0.639)	15388	2.00000	1.8719
9 1,1-Dichloroethene	96	7.227	7.227	(0.646)	16397	2.00000	1.9746
10 Acetone	43	7.405	7.405	(0.662)	7348	2.00000	1.6356
11 Isopropanol	45	7.592	7.592	(0.679)	13779	20.0000	19.5471(M)
12 Carbon Disulfide	76	7.651	7.651	(0.684)	73928	2.00000	2.0089
13 Methylene Chloride	84	8.194	8.194	(0.733)	24721	2.00000	2.0938
14 tert-Butyl Alcohol (TBA)	59	8.302	8.302	(0.742)	16576	20.0000	26.4092(M)
15 MTBE	73	8.539	8.539	(0.764)	58594	2.00000	1.9902
16 trans-1,2-Dichloroethene	96	8.598	8.598	(0.769)	19894	2.00000	1.9160

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Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH10.D
Report Date: 20-Mar-2006 09:43

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 Isopropyl Ether (DIPE)	45	9.328	9.328	(0.834)	84744	2.00000	1.9873
18 1,1-Dichloroethane	63	9.397	9.397	(0.840)	39097	2.00000	2.0838
19 Vinyl Acetate	43	9.407	9.407	(0.841)	54515	2.00000	2.1284 (M)
20 Ethyl tert-Butyl Ether (ETBE)	59	9.939	9.939	(0.889)	61368	2.00000	1.9526
21 2,2-Dichloropropane	77	10.354	10.354	(0.926)	22967	2.00000	2.0552
22 cis-1,2-Dichloroethene	96	10.383	10.383	(0.929)	23922	2.00000	2.0933
23 2-Butanone	43	10.403	10.403	(0.930)	10690	2.00000	1.9015
24 Bromochloromethane	128	10.807	10.807	(0.966)	11281	2.00000	2.0600
25 Tetrahydrofuran	42	10.817	10.817	(0.967)	66288	20.0000	20.5704
26 Chloroform	83	10.876	10.876	(0.973)	35358	2.00000	2.0160
$ 27 Dibromofluoromethane	113	11.162	11.162	(0.998)	245599	50.0000	50.7832
28 1,1,1-Trichloroethane	97	11.182	11.182	(1.000)	23767	2.00000	2.0076
* 29 Pentafluorobenzene	168	11.182	11.182	(1.000)	421477	50.0000	
30 Carbon Tetrachloride	117	11.399	11.399	(0.917)	17801	2.00000	1.9407
31 1,1-Dichloropropene	75	11.439	11.439	(0.921)	24368	2.00000	2.0349
$ 32 1,2-Dichloroethane-d4	65	11.784	11.784	(0.948)	222299	50.0000	50.7728
33 Benzene	78	11.794	11.794	(0.949)	80935	2.00000	2.0224
34 Methyl tert-Amyl Ether (TAME)	73	11.872	11.872	(0.956)	56491	2.00000	2.0499
35 1,2-Dichloroethane	62	11.922	11.922	(0.960)	23787	2.00000	2.0461
* 36 1,4-Difluorobenzene	114	12.425	12.425	(1.000)	712949	50.0000	
37 Trichloroethene	95	12.849	12.849	(1.034)	19169	2.00000	2.0029
38 1,2-Dichloropropane	63	13.312	13.312	(1.071)	22618	2.00000	2.0356
$ 39 Trifluorotoluene	146	13.322	13.322	(1.072)	23531	2.00000	1.9452
40 Dibromomethane	93	13.519	13.519	(1.088)	13415	2.00000	1.9661
41 Bromodichloromethane	83	13.727	13.727	(1.105)	24440	2.00000	1.9838
42 2-Chloroethylvinylether	63	14.200	14.200	(1.143)	7877	2.00000	1.8779
43 Tetramethyl THF	43	14.456	14.456	(1.164)	40547	2.00000	2.0388 (M)
44 cis-1,3-Dichloropropene	75	14.476	14.476	(1.165)	33470	2.00000	2.0460
45 4-Methyl-2-Pentanone	43	14.683	14.683	(1.182)	19189	2.00000	1.8082
$ 46 Toluene-d8	98	14.841	14.841	(1.194)	696190	50.0000	50.6707
47 Toluene	92	14.949	14.949	(1.203)	45153	2.00000	1.9765
48 trans-1,3-Dichloropropene	75	15.354	15.354	(1.236)	27485	2.00000	1.9372
49 1,1,2-Trichloroethane	85	15.630	15.630	(1.258)	10090	2.00000	2.0252
50 Tetrachloroethene	166	15.748	15.748	(0.927)	14769	2.00000	1.8797
51 1,3-Dichloropropane	76	15.906	15.906	(0.937)	31231	2.00000	2.0077
52 2-Hexanone	43	15.965	15.965	(0.940)	11682	2.00000	1.6455
53 Dibromochloromethane	129	16.192	16.192	(0.954)	18984	2.00000	1.9698
54 1,2-Dibromoethane	107	16.399	16.399	(1.320)	20026	2.00000	1.9739
* 55 Chlorobenzene-d5	117	16.981	16.981	(1.000)	568080	50.0000	
56 Chlorobenzene	112	17.021	17.021	(1.002)	51996	2.00000	2.0299
57 Ethylbenzene	91	17.099	17.099	(1.007)	82473	2.00000	2.0204
58 1,1,1,2-Tetrachloroethane	131	17.119	17.119	(1.008)	16766	2.00000	1.9818
59 m,p-Xylenes	106	17.257	17.257	(1.016)	62985	4.00000	4.1578
60 o-Xylene	106	17.780	17.780	(1.047)	31216	2.00000	2.0321
61 Styrene	104	17.810	17.810	(1.049)	51882	2.00000	1.9545
62 Bromoform	173	18.105	18.105	(1.066)	13486	2.00000	1.9268
63 Isopropylbenzene	105	18.214	18.214	(0.920)	68488	2.00000	1.9057

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH10.D
Report Date: 20-Mar-2006 09:43

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone	55	18.460	18.460	(0.932)	9140	20.0000	8.5808
$ 65 Bromofluorobenzene	95	18.470	18.470	(0.933)	291754	50.0000	50.3139
66 1,1,2,2-Tetrachloroethane	83	18.638	18.638	(0.941)	25990	2.00000	2.0616
67 Bromobenzene	156	18.677	18.677	(0.943)	19950	2.00000	1.9529
68 Propylbenzene	91	18.707	18.707	(0.945)	86812	2.00000	1.9130
69 1,2,3-Trichloropropane	110	18.717	18.717	(0.945)	6444	2.00000	2.1122
70 2-Chlorotoluene	91	18.865	18.865	(0.953)	63272	2.00000	2.0223
71 1,3,5-Trimethylbenzene	105	18.904	18.904	(0.955)	56062	2.00000	1.9144
72 4-Chlorotoluene	91	19.003	19.003	(0.960)	59277	2.00000	2.0047
73 tert-Butylbenzene	119	19.279	19.279	(0.974)	43668	2.00000	1.8904
74 1,2,4-Trimethylbenzene	105	19.348	19.348	(0.977)	57363	2.00000	1.9298
75 sec-Butylbenzene	105	19.526	19.526	(0.986)	69323	2.00000	1.9362
76 para-Isopropyl Toluene	119	19.664	19.664	(0.993)	51397	2.00000	1.8905
77 1,3-Dichlorobenzene	146	19.723	19.723	(0.996)	34987	2.00000	1.9585
* 78 1,4-Dichlorobenzene-d4	152	19.802	19.802	(1.000)	253714	50.0000	
79 1,4-Dichlorobenzene	146	19.831	19.831	(1.001)	36404	2.00000	1.9623
80 n-Butylbenzene	91	20.127	20.127	(1.016)	43834	2.00000	1.8013
81 1,2-Dichlorobenzene	146	20.275	20.275	(1.024)	33129	2.00000	1.9611
82 1,2-Dibromo-3-Chloropropane	75	21.202	21.202	(1.071)	3519	2.00000	1.9978
83 1,2,4-Trichlorobenzene	180	22.228	22.228	(1.123)	11894	2.00000	1.6098
84 Hexachlorobutadiene	225	22.346	22.346	(1.128)	4921	2.00000	1.8528
85 Naphthalene	128	22.612	22.612	(1.142)	24182	2.00000	1.4008
86 1,2,3-Trichlorobenzene	180	22.958	22.958	(1.159)	9278	2.00000	1.4463

QC Flag Legend

M - Compound response manually integrated.

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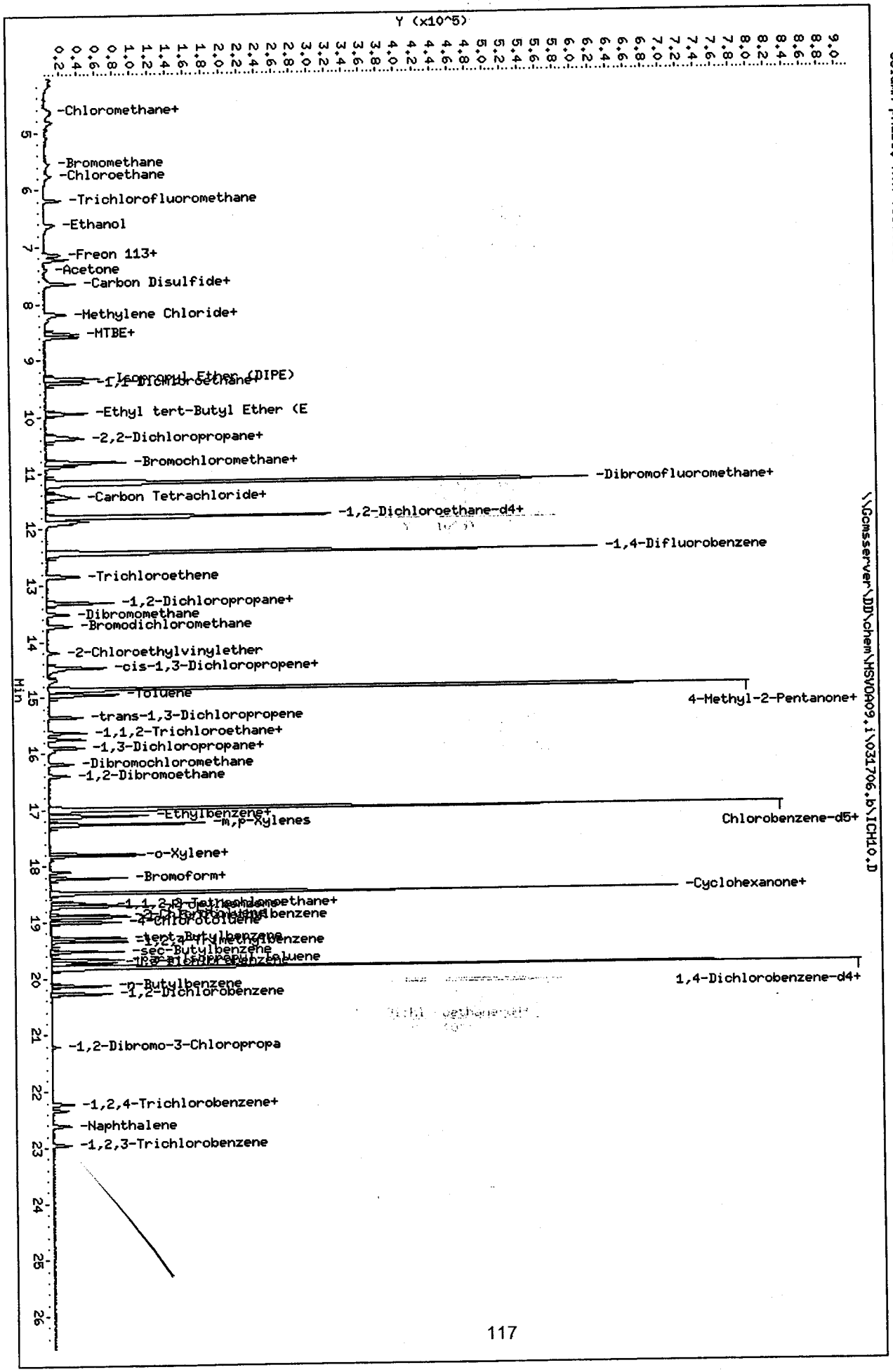
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: VOC
Column diameter: 0.25



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Report Date: 20-Mar-2006 09:43

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH11.D
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Inj Date : 17-MAR-2006 15:04 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2844,0.005/500,S2783,0.005/500
Misc Info : S2410,0.0025/500,5PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\826GOX9W.m
Meth Date : 20-Mar-2006 09:43 target Quant Type: ISTD
Cal Date : 17-MAR-2006 13:19 Cal File: ICH08.D
Als bottle: 11 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.160	4.160	(0.372)	54136	5.00000	4.4256
2 Chloromethane	50	4.663	4.663	(0.417)	88223	5.00000	4.7938
3 Vinyl Chloride	62	4.821	4.821	(0.431)	65977	5.00000	4.5493
4 Bromomethane	94	5.551	5.551	(0.496)	23639	5.00000	4.2091(M)
5 Chloroethane	64	5.758	5.758	(0.515)	37687	5.00000	4.6829(M)
6 Trichlorofluoromethane	101	6.192	6.192	(0.554)	64098	5.00000	4.3543
7 Ethanol	45	6.616	6.616	(0.592)	84616	500.000	522.0090
8 Freon 113	101	7.149	7.149	(0.639)	35661	5.00000	4.2945
9 1,1-Dichloroethene	96	7.228	7.228	(0.646)	38253	5.00000	4.5603
10 Acetone	43	7.405	7.405	(0.662)	19549	5.00000	4.3076
11 Isopropanol	45	7.592	7.592	(0.679)	37558	50.0000	51.3626(M)
12 Carbon Disulfide	76	7.652	7.652	(0.684)	169841	5.00000	4.5687
13 Methylene Chloride	84	8.194	8.194	(0.733)	58060	5.00000	4.8681
14 tert-Butyl Alcohol (TBA)	59	8.293	8.293	(0.742)	47687	50.0000	70.1060(M)
15 MTBE	73	8.539	8.539	(0.764)	143982	5.00000	4.8414
16 trans-1,2-Dichloroethene	96	8.589	8.589	(0.768)	51075	5.00000	4.8695

n 3/20/06

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH11.D
Report Date: 20-Mar-2006 09:43

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 Isopropyl Ether (DIPE)	45	9.318	9.318	(0.833)	211552	5.00000	4.9112
18 1,1-Dichloroethane	63	9.397	9.397	(0.840)	93974	5.00000	4.9583
19 Vinyl Acetate	43	9.397	9.397	(0.840)	129871	5.00000	5.0195
20 Ethyl tert-Butyl Ether (ETBE)	59	9.940	9.940	(0.889)	152756	5.00000	4.8115
21 2,2-Dichloropropane	77	10.354	10.354	(0.926)	55333	5.00000	4.9017
22 cis-1,2-Dichloroethene	96	10.383	10.383	(0.929)	55645	5.00000	4.8204
23 2-Butanone	43	10.403	10.403	(0.930)	27385	5.00000	4.8221
24 Bromochloromethane	128	10.798	10.798	(0.966)	27803	5.00000	5.0260
25 Tetrahydrofuran	42	10.817	10.817	(0.967)	159743	50.0000	49.0722
26 Chloroform	83	10.877	10.877	(0.973)	85134	5.00000	4.8052
$ 27 Dibromofluoromethane	113	11.163	11.163	(0.998)	244701	50.0000	50.0880
28 1,1,1-Trichloroethane	97	11.172	11.172	(0.999)	55874	5.00000	4.6722
* 29 Pentafluorobenzene	168	11.182	11.182	(1.000)	425764	50.0000	
30 Carbon Tetrachloride	117	11.399	11.399	(0.917)	43797	5.00000	4.6735
31 1,1-Dichloropropene	75	11.439	11.439	(0.921)	57136	5.00000	4.6701
$ 32 1,2-Dichloroethane-d4	65	11.784	11.784	(0.948)	227439	50.0000	50.8437
33 Benzene	78	11.794	11.794	(0.949)	195445	5.00000	4.7801
34 Methyl tert-Amyl Ether (TAME)	73	11.863	11.863	(0.955)	133300	5.00000	4.7344
35 1,2-Dichloroethane	62	11.912	11.912	(0.959)	59228	5.00000	4.9865
* 36 1,4-Difluorobenzene	114	12.425	12.425	(1.000)	728417	50.0000	
37 Trichloroethene	95	12.849	12.849	(1.034)	46596	5.00000	4.7654
38 1,2-Dichloropropane	63	13.303	13.303	(1.071)	57543	5.00000	5.0690
$ 39 Trifluorotoluene	146	13.322	13.322	(1.072)	55597	5.00000	4.4984
40 Dibromomethane	93	13.510	13.510	(1.087)	35615	5.00000	5.1089
41 Bromodichloromethane	83	13.727	13.727	(1.105)	61057	5.00000	4.8508
42 2-Chloroethylvinylether	63	14.190	14.190	(1.142)	19629	5.00000	4.5802
43 Tetramethyl THF	43	14.457	14.457	(1.164)	102441	5.00000	5.0417
44 cis-1,3-Dichloropropene	75	14.476	14.476	(1.165)	81848	5.00000	4.8971
45 4-Methyl-2-Pentanone	43	14.683	14.683	(1.182)	52132	5.00000	4.8082
$ 46 Toluene-d8	98	14.841	14.841	(1.194)	704054	50.0000	50.1549
47 Toluene	92	14.950	14.950	(1.203)	113728	5.00000	4.8726
48 trans-1,3-Dichloropropene	75	15.354	15.354	(1.236)	71271	5.00000	4.9168
49 1,1,2-Trichloroethane	85	15.630	15.630	(1.258)	26085	5.00000	5.1246
50 Tetrachloroethene	166	15.749	15.749	(0.927)	37456	5.00000	4.6741
51 1,3-Dichloropropane	76	15.896	15.896	(0.936)	79334	5.00000	5.0005
52 2-Hexanone	43	15.946	15.946	(0.939)	33582	5.00000	4.6381
53 Dibromochloromethane	129	16.192	16.192	(0.954)	49404	5.00000	5.0263
54 1,2-Dibromoethane	107	16.399	16.399	(1.320)	51437	5.00000	4.9623
* 55 Chlorobenzene-d5	117	16.981	16.981	(1.000)	579378	50.0000	
56 Chlorobenzene	112	17.021	17.021	(1.002)	125234	5.00000	4.7937
57 Ethylbenzene	91	17.100	17.100	(1.007)	207143	5.00000	4.9757
58 1,1,1,2-Tetrachloroethane	131	17.119	17.119	(1.008)	43251	5.00000	5.0127
59 m,p-Xylenes	106	17.257	17.257	(1.016)	155047	10.0000	10.0356
60 o-Xylene	106	17.780	17.780	(1.047)	76553	5.00000	4.8863
61 Styrene	104	17.810	17.810	(1.049)	136747	5.00000	5.0510
62 Bromoform	173	18.106	18.106	(1.066)	34111	5.00000	4.7786
63 Isopropylbenzene	105	18.214	18.214	(0.920)	175889	5.00000	4.6679

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH11.D
Report Date: 20-Mar-2006 09:43

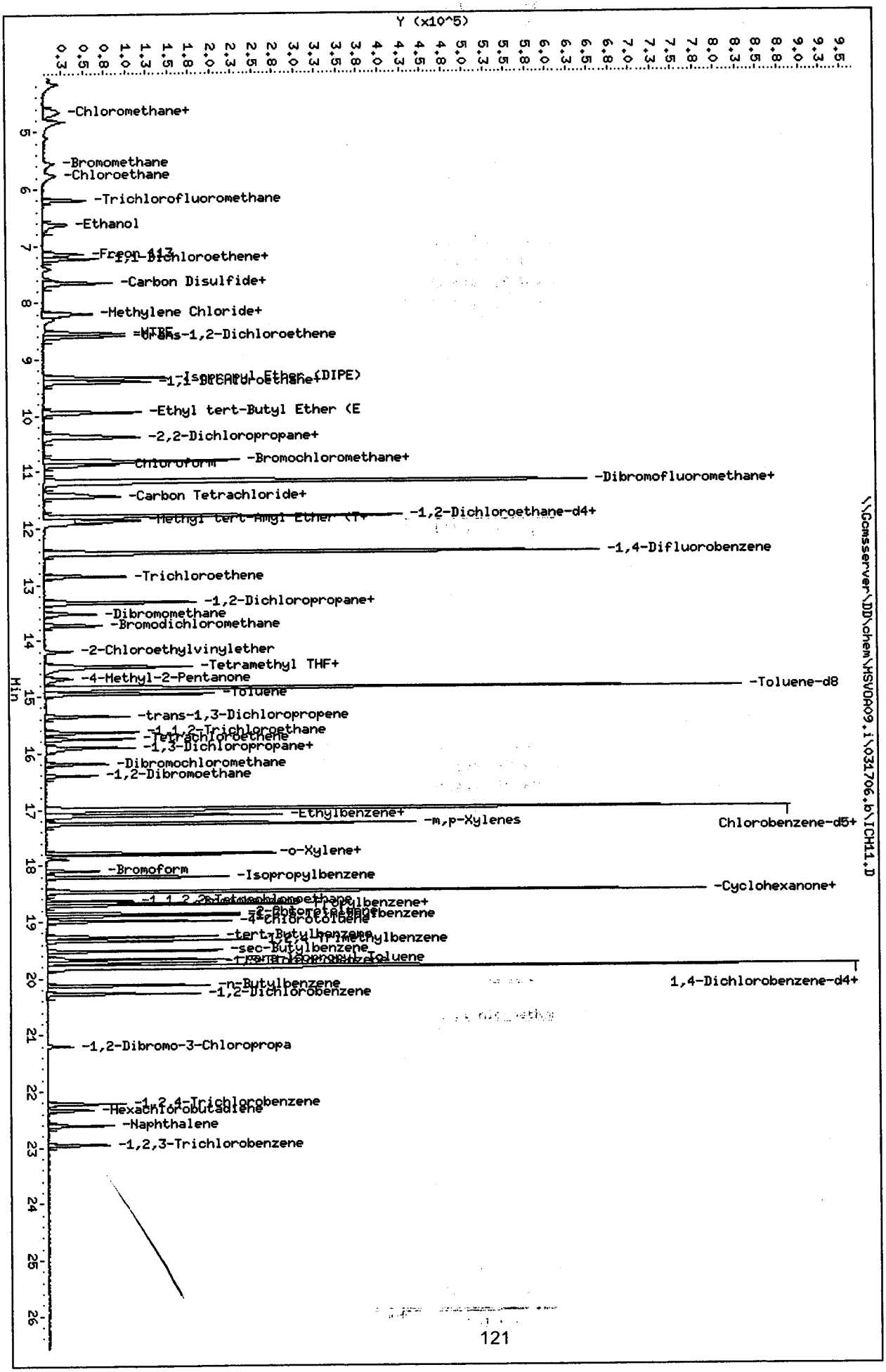
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone	55	18.461	18.461	(0.932)	42617	50.0000	38.1607
$ 65 Bromofluorobenzene	95	18.471	18.471	(0.933)	302187	50.0000	49.7046
66 1,1,2,2-Tetrachloroethane	83	18.628	18.628	(0.941)	66643	5.00000	5.0420
67 Bromobenzene	156	18.668	18.668	(0.943)	50725	5.00000	4.7360
68 Propylbenzene	91	18.707	18.707	(0.945)	228175	5.00000	4.7958
69 1,2,3-Trichloropropane	110	18.727	18.727	(0.946)	16071	5.00000	5.0243
70 2-Chlorotoluene	91	18.865	18.865	(0.953)	159620	5.00000	4.8660
71 1,3,5-Trimethylbenzene	105	18.904	18.904	(0.955)	147335	5.00000	4.7986
72 4-Chlorotoluene	91	18.993	18.993	(0.959)	151038	5.00000	4.8720
73 tert-Butylbenzene	119	19.279	19.279	(0.974)	113900	5.00000	4.7029
74 1,2,4-Trimethylbenzene	105	19.338	19.338	(0.977)	152479	5.00000	4.8926
75 sec-Butylbenzene	105	19.516	19.516	(0.986)	171902	5.00000	4.5793
76 para-Isopropyl Toluene	119	19.664	19.664	(0.993)	134965	5.00000	4.7349
77 1,3-Dichlorobenzene	146	19.723	19.723	(0.996)	90332	5.00000	4.8230
* 78 1,4-Dichlorobenzene-d4	152	19.802	19.802	(1.000)	266008	50.0000	
79 1,4-Dichlorobenzene	146	19.832	19.832	(1.001)	94482	5.00000	4.8576
80 n-Butylbenzene	91	20.127	20.127	(1.016)	119944	5.00000	4.7012
81 1,2-Dichlorobenzene	146	20.275	20.275	(1.024)	85133	5.00000	4.8068
82 1,2-Dibromo-3-Chloropropane	75	21.202	21.202	(1.071)	10324	5.00000	5.5902
83 1,2,4-Trichlorobenzene	180	22.218	22.218	(1.122)	38146	5.00000	4.9243
84 Hexachlorobutadiene	225	22.337	22.337	(1.128)	14086	5.00000	5.0585
85 Naphthalene	128	22.613	22.613	(1.142)	83612	5.00000	4.6196
86 1,2,3-Trichlorobenzene	180	22.958	22.958	(1.159)	33592	5.00000	4.9948

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\HSVOA09.i\031706.b\ICH11.D
Date : 17-MAR-2006 15:04
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.005/500,S2783,0.005/500
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA09.i
Operator: VOC
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH12.D
Report Date: 20-Mar-2006 09:44

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH12.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-MAR-2006 15:39 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2844,0.002/100,S2783,0.002/100
Misc Info : S2410,0.001/100,10PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\826GOX9W.m
Meth Date : 20-Mar-2006 09:43 target Quant Type: ISTD
Cal Date : 17-MAR-2006 13:19 Cal File: ICH08.D
Als bottle: 12 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.166	4.166	(0.372)	143649	10.0000	11.5961
2 Chloromethane	50	4.649	4.649	(0.416)	213424	10.0000	11.4517
3 Vinyl Chloride	62	4.826	4.826	(0.431)	167933	10.0000	11.4344
4 Bromomethane	94	5.546	5.546	(0.496)	60262	10.0000	10.5957
5 Chloroethane	64	5.754	5.754	(0.514)	92608	10.0000	11.3630
6 Trichlorofluoromethane	101	6.197	6.197	(0.554)	168285	10.0000	11.2888
7 Ethanol	45	6.621	6.621	(0.592)	167380	1000.00	1019.6533
8 Freon 113	101	7.144	7.144	(0.639)	97631	10.0000	11.6100
9 1,1-Dichloroethene	96	7.223	7.223	(0.646)	96890	10.0000	11.4060
10 Acetone	43	7.401	7.401	(0.661)	43350	10.0000	9.4325
11 Isopropanol	45	7.588	7.588	(0.678)	73558	100.000	99.3340
12 Carbon Disulfide	76	7.657	7.657	(0.684)	424368	10.0000	11.2725
13 Methylene Chloride	84	8.190	8.190	(0.732)	127736	10.0000	10.5760
14 tert-Butyl Alcohol (TBA)	59	8.308	8.308	(0.743)	98435	100.000	132.7518(M) K-3/20/06
15 MTBE	73	8.535	8.535	(0.763)	323902	10.0000	10.7548
16 trans-1,2-Dichloroethene	96	8.594	8.594	(0.768)	120587	10.0000	11.3527

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH12.D
Report Date: 20-Mar-2006 09:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	9.324	9.324	(0.833)	477225	10.0000	10.9400
	18 1,1-Dichloroethane	63	9.393	9.393	(0.840)	220953	10.0000	11.5120
	19 Vinyl Acetate	43	9.403	9.403	(0.840)	263666	10.0000	10.0631
	20 Ethyl tert-Butyl Ether (ETBE)	59	9.935	9.935	(0.888)	343304	10.0000	10.6779
	21 2,2-Dichloropropane	77	10.349	10.349	(0.925)	128921	10.0000	11.2774
	22 cis-1,2-Dichloroethene	96	10.389	10.389	(0.929)	127254	10.0000	10.8856
	23 2-Butanone	43	10.399	10.399	(0.929)	61263	10.0000	10.6525
	24 Bromochloromethane	128	10.803	10.803	(0.966)	61909	10.0000	11.0512
	25 Tetrahydrofuran	42	10.813	10.813	(0.967)	347594	100.000	105.4411
	26 Chloroform	83	10.882	10.882	(0.973)	195542	10.0000	10.8987
$	27 Dibromofluoromethane	113	11.158	11.158	(0.997)	250952	50.0000	50.7238
	28 1,1,1-Trichloroethane	97	11.178	11.178	(0.999)	135335	10.0000	11.1750
*	29 Pentafluorobenzene	168	11.188	11.188	(1.000)	431167	50.0000	
	30 Carbon Tetrachloride	117	11.395	11.395	(0.917)	106540	10.0000	11.1311
	31 1,1-Dichloropropene	75	11.444	11.444	(0.921)	144273	10.0000	11.5459
$	32 1,2-Dichloroethane-d4	65	11.789	11.789	(0.948)	232957	50.0000	50.9887
	33 Benzene	78	11.789	11.789	(0.948)	460275	10.0000	11.0219
	34 Methyl tert-Amyl Ether (TAME)	73	11.868	11.868	(0.955)	302908	10.0000	10.5336
	35 1,2-Dichloroethane	62	11.917	11.917	(0.959)	126831	10.0000	10.4550
*	36 1,4-Difluorobenzene	114	12.430	12.430	(1.000)	743967	50.0000	
	37 Trichloroethene	95	12.844	12.844	(1.033)	113391	10.0000	11.3543
	38 1,2-Dichloropropane	63	13.308	13.308	(1.071)	129497	10.0000	11.1690
$	39 Trifluorotoluene	146	13.318	13.318	(1.071)	136514	10.0000	10.8147
	40 Dibromomethane	93	13.515	13.515	(1.087)	77596	10.0000	10.8984
	41 Bromodichloromethane	83	13.722	13.722	(1.104)	139489	10.0000	10.8504
	42 2-Chloroethylvinylether	63	14.196	14.196	(1.142)	43792	10.0000	10.0049
	43 Tetramethyl THF	43	14.462	14.462	(1.163)	220164	10.0000	10.6090
	44 cis-1,3-Dichloropropene	75	14.472	14.472	(1.164)	187470	10.0000	10.9822
	45 4-Methyl-2-Pentanone	43	14.679	14.679	(1.181)	113029	10.0000	10.2069
$	46 Toluene-d8	98	14.847	14.847	(1.194)	709885	50.0000	49.5133
	47 Toluene	92	14.955	14.955	(1.203)	267150	10.0000	11.2066
	48 trans-1,3-Dichloropropene	75	15.349	15.349	(1.235)	158623	10.0000	10.7144
	49 1,1,2-Trichloroethane	85	15.636	15.636	(1.258)	55425	10.0000	10.6612
	50 Tetrachloroethene	166	15.744	15.744	(0.927)	92544	10.0000	11.2778
	51 1,3-Dichloropropane	76	15.902	15.902	(0.936)	171443	10.0000	10.5529
	52 2-Hexanone	43	15.941	15.941	(0.938)	75169	10.0000	10.1385
	53 Dibromochloromethane	129	16.188	16.188	(0.953)	105876	10.0000	10.5191
	54 1,2-Dibromoethane	107	16.395	16.395	(1.319)	110991	10.0000	10.4840
*	55 Chlorobenzene-d5	117	16.987	16.987	(1.000)	593292	50.0000	
	56 Chlorobenzene	112	17.026	17.026	(1.002)	287511	10.0000	10.7473
	57 Ethylbenzene	91	17.105	17.105	(1.007)	477309	10.0000	11.1963
	58 1,1,1,2-Tetrachloroethane	131	17.125	17.125	(1.008)	95535	10.0000	10.8128
	59 m,p-Xylenes	106	17.253	17.253	(1.016)	360533	20.0000	22.7886
	60 o-Xylene	106	17.785	17.785	(1.047)	177282	10.0000	11.0504
	61 Styrene	104	17.805	17.805	(1.048)	310347	10.0000	11.1945
	62 Bromoform	173	18.101	18.101	(1.066)	74256	10.0000	10.1587
	63 Isopropylbenzene	105	18.210	18.210	(0.919)	417743	10.0000	11.1705

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH12.D
Report Date: 20-Mar-2006 09:44

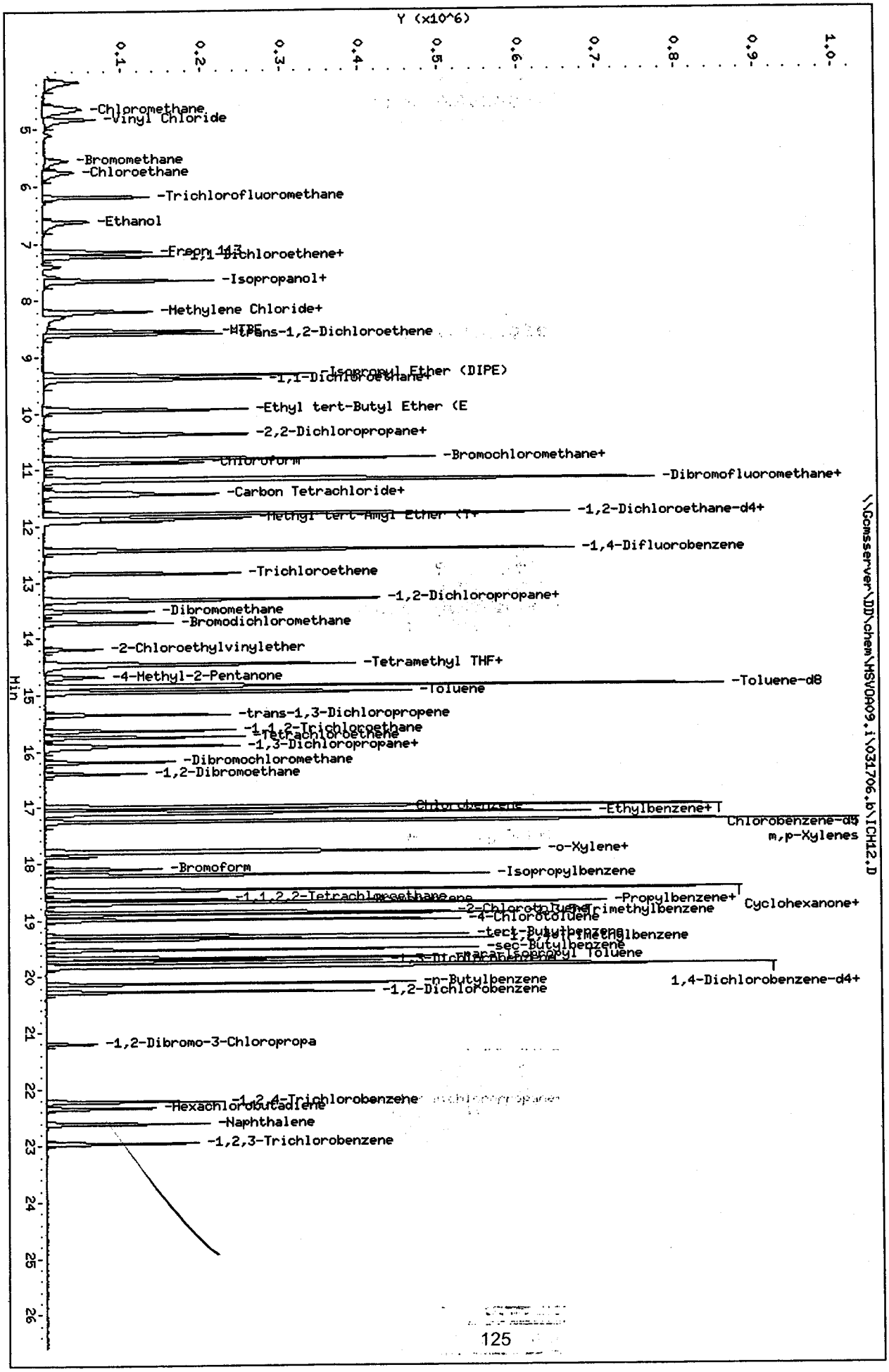
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone	55	18.456	18.456	(0.932)	139476	100.000	125.8364
$ 65 Bromofluorobenzene	95	18.466	18.466	(0.932)	300460	50.0000	49.7944
66 1,1,2,2-Tetrachloroethane	83	18.634	18.634	(0.941)	135967	10.0000	10.3648
67 Bromobenzene	156	18.673	18.673	(0.943)	112217	10.0000	10.5566
68 Propylbenzene	91	18.703	18.703	(0.944)	535315	10.0000	11.3364
69 1,2,3-Trichloropropane	110	18.722	18.722	(0.945)	34046	10.0000	10.7244
70 2-Chlorotoluene	91	18.870	18.870	(0.953)	362497	10.0000	11.1343
71 1,3,5-Trimethylbenzene	105	18.900	18.900	(0.954)	340127	10.0000	11.1617
72 4-Chlorotoluene	91	18.999	18.999	(0.959)	337070	10.0000	10.9552
73 tert-Butylbenzene	119	19.275	19.275	(0.973)	268546	10.0000	11.1722
74 1,2,4-Trimethylbenzene	105	19.344	19.344	(0.977)	348492	10.0000	11.2668
75 sec-Butylbenzene	105	19.521	19.521	(0.986)	426978	10.0000	11.4604
76 para-Isopropyl Toluene	119	19.659	19.659	(0.993)	327041	10.0000	11.5602
77 1,3-Dichlorobenzene	146	19.728	19.728	(0.996)	197884	10.0000	10.6455
* 78 1,4-Dichlorobenzene-d4	152	19.807	19.807	(1.000)	264011	50.0000	
79 1,4-Dichlorobenzene	146	19.827	19.827	(1.001)	206611	10.0000	10.7029
80 n-Butylbenzene	91	20.123	20.123	(1.016)	303501	10.0000	11.9857
81 1,2-Dichlorobenzene	146	20.271	20.271	(1.023)	189621	10.0000	10.7875
82 1,2-Dibromo-3-Chloropropane	75	21.198	21.198	(1.070)	21297	10.0000	11.6191
83 1,2,4-Trichlorobenzene	180	22.223	22.223	(1.122)	93234	10.0000	12.1268
84 Hexachlorobutadiene	225	22.342	22.342	(1.128)	34722	10.0000	12.5635
85 Naphthalene	128	22.608	22.608	(1.141)	219695	10.0000	12.2302
86 1,2,3-Trichlorobenzene	180	22.953	22.953	(1.159)	82714	10.0000	12.3917

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA09.i\031706.b\ICH12.D
Date : 17-MAR-2006 15:39
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.002/100,S2783,0.002/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: VOC
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH13.D
Report Date: 20-Mar-2006 09:44

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH13.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-MAR-2006 16:14 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2844,0.004/100,S2783,0.004/100
Misc Info : S2410,0.002/100,20PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\826GOX9W.m
Meth Date : 20-Mar-2006 09:44 target Quant Type: ISTD
Cal Date : 17-MAR-2006 13:19 Cal File: ICH08.D
Als bottle: 13 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.165	4.165	(0.372)	246635	20.0000	19.6250
2 Chloromethane	50	4.648	4.648	(0.416)	379029	20.0000	20.0468
3 Vinyl Chloride	62	4.826	4.826	(0.431)	296409	20.0000	19.8936
4 Bromomethane	94	5.556	5.556	(0.497)	122889	20.0000	21.2983
5 Chloroethane	64	5.753	5.753	(0.514)	164004	20.0000	19.8356
6 Trichlorofluoromethane	101	6.197	6.197	(0.554)	292719	20.0000	19.3552
7 Ethanol	45	6.621	6.621	(0.592)	349397	2000.00	2098.0364
8 Freon 113	101	7.143	7.143	(0.639)	181079	20.0000	21.2255
9 1,1-Dichloroethene	96	7.232	7.232	(0.647)	176716	20.0000	20.5057
10 Acetone	43	7.400	7.400	(0.661)	88464	20.0000	18.9737
11 Isopropanol	45	7.577	7.577	(0.677)	155205	200.000	206.5945
12 Carbon Disulfide	76	7.656	7.656	(0.684)	778461	20.0000	20.3827
13 Methylene Chloride	84	8.199	8.199	(0.733)	243069	20.0000	19.8374
14 tert-Butyl Alcohol (TBA)	59	8.287	8.287	(0.741)	207418	200.000	264.5381(M) 3/20/06
15 MTBE	73	8.534	8.534	(0.763)	629498	20.0000	20.6028
16 trans-1,2-Dichloroethene	96	8.593	8.593	(0.768)	216695	20.0000	20.1092

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH13.D
Report Date: 20-Mar-2006 09:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 Isopropyl Ether (DIPE)	45	9.323	9.323	(0.833)	934053	20.0000	21.1063
18 1,1-Dichloroethane	63	9.392	9.392	(0.840)	399995	20.0000	20.5425
19 Vinyl Acetate	43	9.402	9.402	(0.840)	566898	20.0000	21.3268
20 Ethyl tert-Butyl Ether (ETBE)	59	9.934	9.934	(0.888)	676058	20.0000	20.7271
21 2,2-Dichloropropane	77	10.349	10.349	(0.925)	243752	20.0000	21.0174
22 cis-1,2-Dichloroethene	96	10.388	10.388	(0.929)	242937	20.0000	20.4843
23 2-Butanone	43	10.398	10.398	(0.929)	119926	20.0000	20.5547
24 Bromochloromethane	128	10.802	10.802	(0.966)	118456	20.0000	20.8428
25 Tetrahydrofuran	42	10.812	10.812	(0.967)	669884	200.000	200.3006
26 Chloroform	83	10.881	10.881	(0.973)	363757	20.0000	19.9845
$ 27 Dibromofluoromethane	113	11.157	11.157	(0.997)	251670	50.0000	50.1416
28 1,1,1-Trichloroethane	97	11.177	11.177	(0.999)	248163	20.0000	20.1986
* 29 Pentafluorobenzene	168	11.187	11.187	(1.000)	437422	50.0000	
30 Carbon Tetrachloride	117	11.394	11.394	(0.917)	195894	20.0000	20.3458
31 1,1-Dichloropropene	75	11.443	11.443	(0.921)	262606	20.0000	20.8918
$ 32 1,2-Dichloroethane-d4	65	11.789	11.789	(0.948)	234573	50.0000	51.0394
33 Benzene	78	11.789	11.789	(0.948)	851262	20.0000	20.2644
34 Methyl tert-Amyl Ether (TAME)	73	11.867	11.867	(0.955)	610554	20.0000	21.1066
35 1,2-Dichloroethane	62	11.917	11.917	(0.959)	251480	20.0000	20.6078
* 36 1,4-Difluorobenzene	114	12.430	12.430	(1.000)	748384	50.0000	
37 Trichloroethene	95	12.844	12.844	(1.033)	201876	20.0000	20.0954
38 1,2-Dichloropropane	63	13.307	13.307	(1.071)	244785	20.0000	20.9880
$ 39 Trifluorotoluene	146	13.317	13.317	(1.071)	255179	20.0000	20.0961
40 Dibromomethane	93	13.514	13.514	(1.087)	151832	20.0000	21.1991
41 Bromodichloromethane	83	13.722	13.722	(1.104)	267894	20.0000	20.7156
42 2-Chloroethylvinylether	63	14.195	14.195	(1.142)	90896	20.0000	20.6439
43 Tetramethyl THF	43	14.451	14.451	(1.163)	448977	20.0000	21.5072
44 cis-1,3-Dichloropropene	75	14.471	14.471	(1.164)	360361	20.0000	20.9858
45 4-Methyl-2-Pentanone	43	14.678	14.678	(1.181)	230021	20.0000	20.6491
$ 46 Toluene-d8	98	14.846	14.846	(1.194)	721157	50.0000	50.0026
47 Toluene	92	14.954	14.954	(1.203)	494735	20.0000	20.6311
48 trans-1,3-Dichloropropene	75	15.349	15.349	(1.235)	314188	20.0000	21.0971
49 1,1,2-Trichloroethane	85	15.635	15.635	(1.258)	107334	20.0000	20.5242
50 Tetrachloroethene	166	15.753	15.753	(0.927)	166555	20.0000	19.9931
51 1,3-Dichloropropane	76	15.901	15.901	(0.936)	340772	20.0000	20.6616
52 2-Hexanone	43	15.931	15.931	(0.938)	153535	20.0000	20.3979
53 Dibromochloromethane	129	16.187	16.187	(0.953)	209951	20.0000	20.5469
54 1,2-Dibromoethane	107	16.394	16.394	(1.319)	223309	20.0000	20.9689
* 55 Chlorobenzene-d5	117	16.986	16.986	(1.000)	602316	50.0000	
56 Chlorobenzene	112	17.025	17.025	(1.002)	541502	20.0000	19.9384
57 Ethylbenzene	91	17.104	17.104	(1.007)	879299	20.0000	20.3169
58 1,1,1,2-Tetrachloroethane	131	17.124	17.124	(1.008)	183137	20.0000	20.4172
59 m,p-Xylenes	106	17.252	17.252	(1.016)	670618	40.0000	41.7534
60 o-Xylene	106	17.785	17.785	(1.047)	333251	20.0000	20.4611
61 Styrene	104	17.805	17.805	(1.048)	592582	20.0000	21.0548
62 Bromoform	173	18.100	18.100	(1.066)	150542	20.0000	20.2865
63 Isopropylbenzene	105	18.209	18.209	(0.919)	773902	20.0000	20.3075

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH13.D
Report Date: 20-Mar-2006 09:44

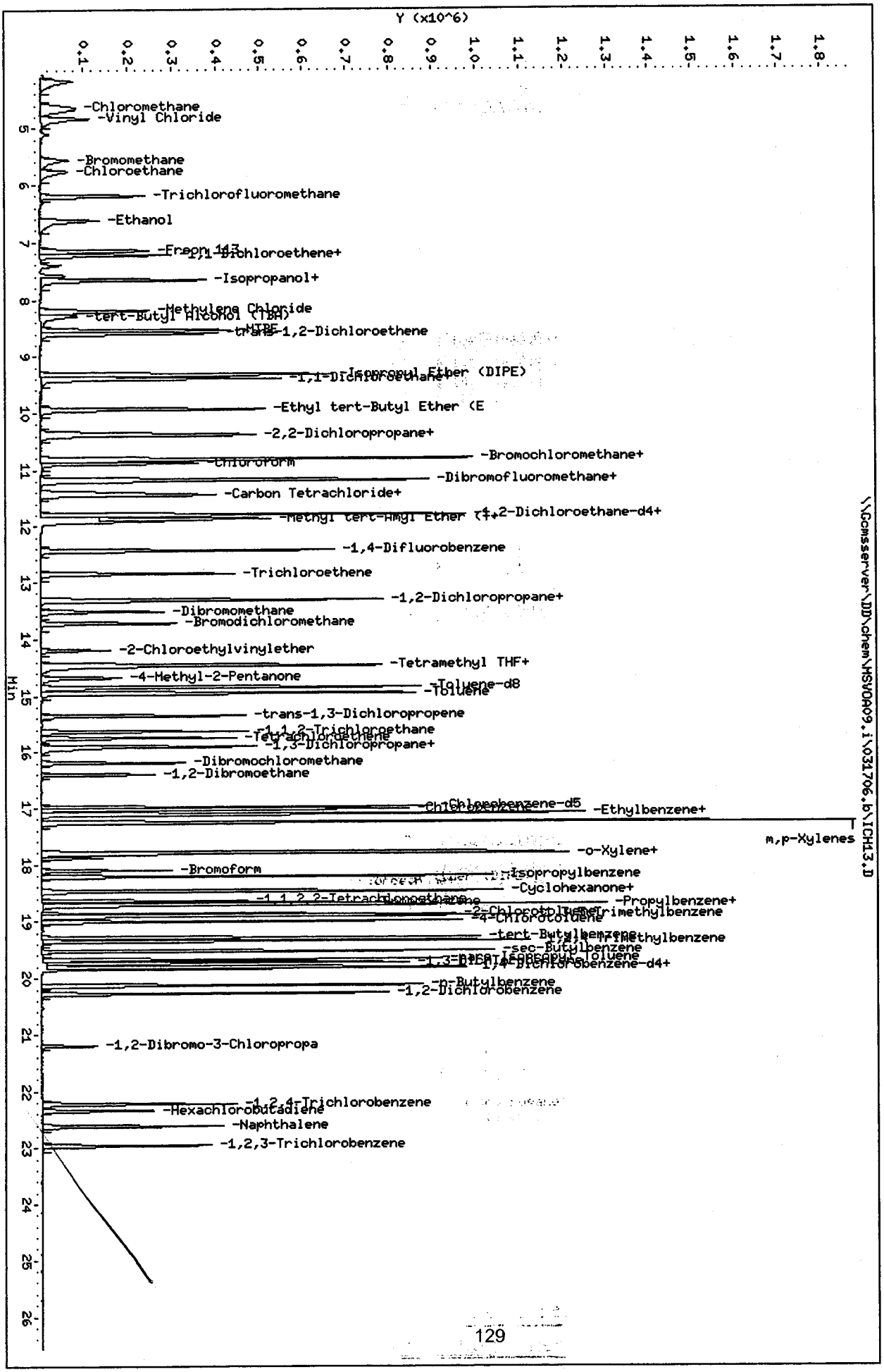
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone	55	18.455	18.455	(0.932)	270907	200.000	239.8467
$ 65 Bromofluorobenzene	95	18.465	18.465	(0.932)	309247	50.0000	50.2928
66 1,1,2,2-Tetrachloroethane	83	18.633	18.633	(0.941)	272334	20.0000	20.3721
67 Bromobenzene	156	18.672	18.672	(0.943)	216631	20.0000	19.9984
68 Propylbenzene	91	18.702	18.702	(0.944)	988510	20.0000	20.5425
69 1,2,3-Trichloropropane	110	18.722	18.722	(0.945)	68192	20.0000	21.0790
70 2-Chlorotoluene	91	18.870	18.870	(0.953)	682723	20.0000	20.5784
71 1,3,5-Trimethylbenzene	105	18.899	18.899	(0.954)	649717	20.0000	20.9228
72 4-Chlorotoluene	91	18.998	18.998	(0.959)	630712	20.0000	20.1159
73 tert-Butylbenzene	119	19.274	19.274	(0.973)	503654	20.0000	20.5618
74 1,2,4-Trimethylbenzene	105	19.343	19.343	(0.977)	663871	20.0000	21.0619
75 sec-Butylbenzene	105	19.521	19.521	(0.986)	806227	20.0000	21.2354
76 para-Isopropyl Toluene	119	19.659	19.659	(0.993)	620866	20.0000	21.5361
77 1,3-Dichlorobenzene	146	19.728	19.728	(0.996)	390318	20.0000	20.6054
* 78 1,4-Dichlorobenzene-d4	152	19.807	19.807	(1.000)	269039	50.0000	
79 1,4-Dichlorobenzene	146	19.826	19.826	(1.001)	403179	20.0000	20.4952
80 n-Butylbenzene	91	20.122	20.192	(1.016)	578316	20.0000	22.4117
81 1,2-Dichlorobenzene	146	20.270	20.270	(1.023)	366773	20.0000	20.4757
82 1,2-Dibromo-3-Chloropropane	75	21.197	21.197	(1.070)	40751	20.0000	21.8172
83 1,2,4-Trichlorobenzene	180	22.223	22.223	(1.122)	186408	20.0000	23.7926
84 Hexachlorobutadiene	225	22.341	22.341	(1.128)	64295	20.0000	22.8292
85 Naphthalene	128	22.607	22.607	(1.141)	450079	20.0000	24.5872
86 1,2,3-Trichlorobenzene	180	22.953	22.953	(1.159)	169139	20.0000	24.8659

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA09.i\031706.b\ICH13.D
Date : 17-MAR-2006 16:14
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.004/100,S2783,0.004/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: VOC
Column diameter: 0.25



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Report Date: 20-Mar-2006 09:44

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Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH14.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-MAR-2006 16:48 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2844,0.01/100,S2783,0.01/100
Misc Info : S2410,0.005/100,50PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\826GOX9W.m
Meth Date : 20-Mar-2006 09:44 target Quant Type: ISTD
Cal Date : 17-MAR-2006 13:19 Cal File: ICH08.D
Als bottle: 14 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.174	4.174	(0.373)	662528	50.0000	51.0845
2 Chloromethane	50	4.657	4.657	(0.416)	916581	50.0000	46.9757
3 Vinyl Chloride	62	4.825	4.825	(0.431)	756254	50.0000	49.1836
4 Bromomethane	94	5.555	5.555	(0.497)	359220	50.0000	60.3284
5 Chloroethane	64	5.762	5.762	(0.515)	421883	50.0000	49.4439
6 Trichlorofluoromethane	101	6.196	6.196	(0.554)	751501	50.0000	48.1511
7 Ethanol	45	6.610	6.610	(0.591)	882416	5000.00	5134.4825
8 Freon 113	101	7.143	7.143	(0.639)	398596	50.0000	45.2744
9 1,1-Dichloroethene	96	7.231	7.231	(0.646)	425109	50.0000	47.8002
10 Acetone	43	7.399	7.399	(0.661)	217794	50.0000	45.2649
11 Isopropanol	45	7.576	7.576	(0.677)	410113	500.000	528.9884
12 Carbon Disulfide	76	7.665	7.665	(0.685)	1860984	50.0000	47.2169
13 Methylene Chloride	84	8.198	8.198	(0.733)	608027	50.0000	48.0848
14 tert-Butyl Alcohol (TBA)	59	8.287	8.287	(0.741)	536291	500.000	651.2830(M)
15 MTBE	73	8.533	8.533	(0.763)	1602925	50.0000	50.8365
16 trans-1,2-Dichloroethene	96	8.592	8.592	(0.768)	531964	50.0000	47.8364

M 3/20/06

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH14.D
Report Date: 20-Mar-2006 09:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	9.322	9.322	(0.833)	2318807	50.0000	50.7733
	18 1,1-Dichloroethane	63	9.401	9.401	(0.840)	988497	50.0000	49.1930
	19 Vinyl Acetate	43	9.401	9.401	(0.840)	1343991	50.0000	48.9946
	20 Ethyl tert-Butyl Ether (ETBE)	59	9.934	9.934	(0.888)	1685990	50.0000	50.0886
	21 2,2-Dichloropropane	77	10.348	10.348	(0.925)	563238	50.0000	47.0601
	22 cis-1,2-Dichloroethene	96	10.387	10.387	(0.929)	600992	50.0000	49.1050
	23 2-Butanone	43	10.397	10.397	(0.929)	309065	50.0000	51.3309
	24 Bromochloromethane	128	10.801	10.801	(0.966)	299285	50.0000	51.0287
	25 Tetrahydrofuran	42	10.801	10.801	(0.966)	1626715	500.000	471.3284
	26 Chloroform	83	10.880	10.880	(0.973)	896140	50.0000	47.7075
$	27 Dibromofluoromethane	113	11.166	11.166	(0.998)	257910	50.0000	49.7925
	28 1,1,1-Trichloroethane	97	11.176	11.176	(0.999)	577184	50.0000	45.5228
*	29 Pentafluorobenzene	168	11.186	11.186	(1.000)	451410	50.0000	
	30 Carbon Tetrachloride	117	11.403	11.403	(0.917)	453292	50.0000	46.0000
	31 1,1-Dichloropropene	75	11.442	11.442	(0.921)	605316	50.0000	47.0522
$	32 1,2-Dichloroethane-d4	65	11.788	11.788	(0.948)	231890	50.0000	49.2986
	33 Benzene	78	11.788	11.788	(0.948)	2051306	50.0000	47.7118
	34 Methyl tert-Amyl Ether (TAME)	73	11.867	11.867	(0.955)	1501355	50.0000	50.7112
	35 1,2-Dichloroethane	62	11.916	11.916	(0.959)	620678	50.0000	49.6958
*	36 1,4-Difluorobenzene	114	12.429	12.429	(1.000)	765948	50.0000	
	37 Trichloroethene	95	12.843	12.843	(1.033)	491085	50.0000	47.7634
	38 1,2-Dichloropropane	63	13.306	13.306	(1.071)	598671	50.0000	50.1534
$	39 Trifluorotoluene	146	13.316	13.316	(1.071)	583863	50.0000	44.9266
	40 Dibromomethane	93	13.514	13.514	(1.087)	384883	50.0000	52.5061
	41 Bromodichloromethane	83	13.721	13.721	(1.104)	667666	50.0000	50.4452
	42 2-Chloroethylvinylether	63	14.194	14.194	(1.142)	232672	50.0000	51.6319
	43 Tetramethyl THF	43	14.450	14.450	(1.163)	1124290	50.0000	52.6216
	44 cis-1,3-Dichloropropene	75	14.470	14.470	(1.164)	883107	50.0000	50.2488
	45 4-Methyl-2-Pentanone	43	14.667	14.667	(1.180)	588648	50.0000	51.6315
$	46 Toluene-d8	98	14.845	14.845	(1.194)	736810	50.0000	49.9165
	47 Toluene	92	14.953	14.953	(1.203)	1182731	50.0000	48.1904
	48 trans-1,3-Dichloropropene	75	15.348	15.348	(1.235)	781551	50.0000	51.2761
	49 1,1,2-Trichloroethane	85	15.634	15.634	(1.258)	270298	50.0000	50.5007
	50 Tetrachloroethene	166	15.752	15.752	(0.927)	385935	50.0000	45.4381
	51 1,3-Dichloropropane	76	15.900	15.900	(0.936)	854276	50.0000	50.8021
	52 2-Hexanone	43	15.930	15.930	(0.938)	401771	50.0000	52.3530
	53 Dibromochloromethane	129	16.186	16.186	(0.953)	538976	50.0000	51.7347
	54 1,2-Dibromoethane	107	16.403	16.403	(1.320)	561694	50.0000	51.5342
*	55 Chlorobenzene-d5	117	16.985	16.985	(1.000)	614102	50.0000	
	56 Chlorobenzene	112	17.025	17.025	(1.002)	1333236	50.0000	48.1484
	57 Ethylbenzene	91	17.103	17.103	(1.007)	2067781	50.0000	46.8609
	58 1,1,1,2-Tetrachloroethane	131	17.123	17.123	(1.008)	453794	50.0000	49.6207
	59 m,p-Xylenes	106	17.251	17.251	(1.016)	1568512	100.000	95.7832
	60 o-Xylene	106	17.784	17.784	(1.047)	805939	50.0000	48.5338
	61 Styrene	104	17.813	17.813	(1.049)	1467871	50.0000	51.1536
	62 Bromoform	173	18.099	18.099	(1.066)	387898	50.0000	51.2687
	63 Isopropylbenzene	105	18.208	18.208	(0.919)	1774666	50.0000	45.5699

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH14.D
Report Date: 20-Mar-2006 09:44

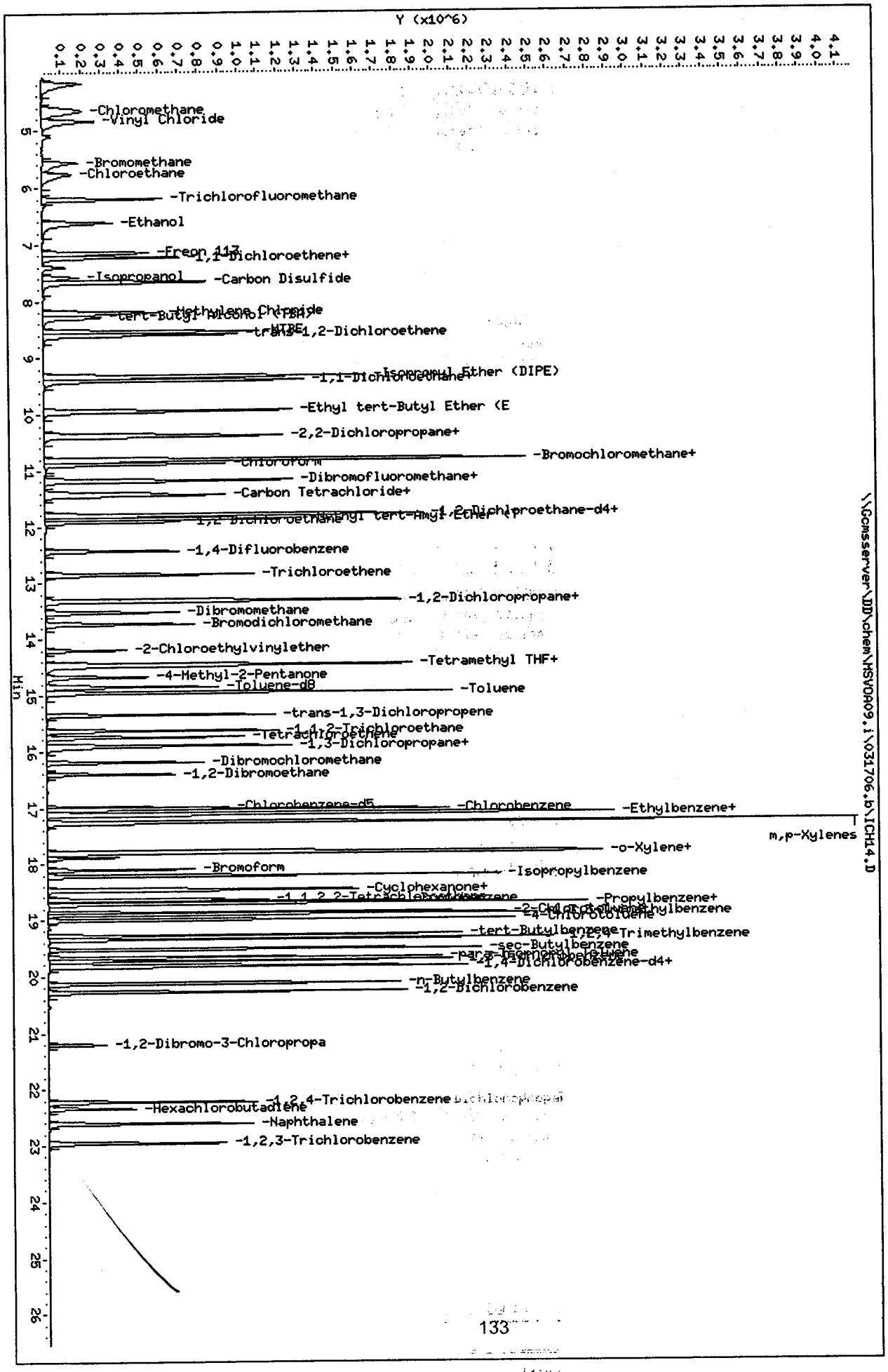
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone	55	18.455	18.455	(0.932)	696162	500.000	603.1362
$ 65 Bromofluorobenzene	95	18.474	18.474	(0.933)	312141	50.0000	49.6756
66 1,1,2,2-Tetrachloroethane	83	18.632	18.632	(0.941)	674563	50.0000	49.3797
67 Bromobenzene	156	18.671	18.671	(0.943)	541144	50.0000	48.8854
68 Propylbenzene	91	18.701	18.701	(0.944)	2219864	50.0000	45.1430
69 1,2,3-Trichloropropane	110	18.721	18.721	(0.945)	170918	50.0000	51.7006
70 2-Chlorotoluene	91	18.869	18.869	(0.953)	1625114	50.0000	47.9339
71 1,3,5-Trimethylbenzene	105	18.898	18.898	(0.954)	1490373	50.0000	46.9659
72 4-Chlorotoluene	91	18.997	18.997	(0.959)	1538315	50.0000	48.0115
73 tert-Butylbenzene	119	19.273	19.273	(0.973)	1095717	50.0000	43.7743
74 1,2,4-Trimethylbenzene	105	19.342	19.342	(0.977)	1538600	50.0000	47.7675
75 sec-Butylbenzene	105	19.520	19.520	(0.986)	1717838	50.0000	44.2769
76 para-Isopropyl Toluene	119	19.668	19.668	(0.993)	1344144	50.0000	45.6255
77 1,3-Dichlorobenzene	146	19.727	19.727	(0.996)	942725	50.0000	48.7012
* 78 1,4-Dichlorobenzene-d4	152	19.806	19.806	(1.000)	274931	50.0000	
79 1,4-Dichlorobenzene	146	19.835	19.835	(1.001)	977557	50.0000	48.6283
80 n-Butylbenzene	91	20.131	20.131	(1.016)	1225483	50.0000	46.4739
81 1,2-Dichlorobenzene	146	20.269	20.269	(1.023)	903198	50.0000	49.3420
82 1,2-Dibromo-3-Chloropropane	75	21.196	21.196	(1.070)	97175	50.0000	50.9105
83 1,2,4-Trichlorobenzene	180	22.222	22.222	(1.122)	444136	50.0000	55.4736
84 Hexachlorobutadiene	225	22.340	22.340	(1.128)	112000	50.0000	38.9155
85 Naphthalene	128	22.607	22.607	(1.141)	1143368	50.0000	61.1222
86 1,2,3-Trichlorobenzene	180	22.952	22.952	(1.159)	413686	50.0000	59.5147

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA09.i\031706.b\ICH14.D
Date : 17-MAR-2006 16:48
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.01/100,S2783,0.01/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: VOC
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH15.D
Report Date: 20-Mar-2006 09:44

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH15.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-MAR-2006 17:25 MS Autotune Date: 31-JAN-2006 15:03
Operator : VOC Inst ID: MSVOA09.i
Smp Info : ICAL,S2844,0.015/100,S2783,0.015/100
Misc Info : S2410,0.0075/100,75PPB,NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\826GOX9W.m
Meth Date : 20-Mar-2006 09:44 target Quant Type: ISTD
Cal Date : 17-MAR-2006 13:19 Cal File: ICH08.D
Als bottle: 15 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.165	4.165	(0.372)	1109762	75.0000	82.6790
2 Chloromethane	50	4.648	4.648	(0.416)	1408526	75.0000	69.7506
3 Vinyl Chloride	62	4.825	4.825	(0.431)	1246501	75.0000	78.3295
4 Bromomethane	94	5.555	5.555	(0.497)	601936	75.0000	97.6770
5 Chloroethane	64	5.752	5.752	(0.514)	673732	75.0000	76.2937
6 Trichlorofluoromethane	101	6.196	6.196	(0.554)	1269022	75.0000	78.5646
7 Ethanol	45	6.610	6.610	(0.591)	1348499	7500.00	7581.4864
8 Freon 113	101	7.143	7.143	(0.639)	868221	75.0000	95.2864
9 1,1-Dichloroethene	96	7.222	7.222	(0.646)	727053	75.0000	78.9908
10 Acetone	43	7.399	7.399	(0.661)	321635	75.0000	64.5891
11 Isopropanol	45	7.567	7.567	(0.676)	612754	750.000	763.6761
12 Carbon Disulfide	76	7.656	7.656	(0.684)	3079758	75.0000	75.5008
13 Methylene Chloride	84	8.188	8.188	(0.732)	920296	75.0000	70.3223
14 tert-Butyl Alcohol (TBA)	59	8.277	8.277	(0.740)	833749	750.000	966.8223 (M)
15 MTBE	73	8.534	8.534	(0.763)	2438411	75.0000	74.7223
16 trans-1,2-Dichloroethene	96	8.593	8.593	(0.768)	838385	75.0000	72.8451

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH15.D
Report Date: 20-Mar-2006 09:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	9.323	9.323	(0.833)	3459117	75.0000	73.1841
	18 1,1-Dichloroethane	63	9.392	9.392	(0.840)	1482447	75.0000	71.2833
	19 Vinyl Acetate	43	9.401	9.401	(0.840)	2131178	75.0000	75.0675
	20 Ethyl tert-Butyl Ether (ETBE)	59	9.934	9.934	(0.888)	2568128	75.0000	73.7193
	21 2,2-Dichloropropane	77	10.348	10.348	(0.925)	937528	75.0000	75.6878
	22 cis-1,2-Dichloroethene	96	10.388	10.388	(0.929)	907356	75.0000	71.6333
	23 2-Butanone	43	10.397	10.397	(0.929)	464998	75.0000	74.6209
	24 Bromochloromethane	128	10.802	10.802	(0.966)	452394	75.0000	74.5293
	25 Tetrahydrofuran	42	10.802	10.802	(0.966)	2431484	750.000	680.7129
	26 Chloroform	83	10.881	10.881	(0.973)	1356936	75.0000	69.7993
$	27 Dibromofluoromethane	113	11.157	11.157	(0.997)	266938	50.0000	49.7951
	28 1,1,1-Trichloroethane	97	11.177	11.177	(0.999)	991615	75.0000	75.5681
*	29 Pentafluorobenzene	168	11.186	11.186	(1.000)	467187	50.0000	
	30 Carbon Tetrachloride	117	11.403	11.403	(0.917)	843603	75.0000	81.6822
	31 1,1-Dichloropropene	75	11.443	11.443	(0.921)	1072411	75.0000	79.5369
$	32 1,2-Dichloroethane-d4	65	11.788	11.788	(0.948)	240214	50.0000	48.7260
	33 Benzene	78	11.788	11.788	(0.948)	3159615	75.0000	70.1197
	34 Methyl tert-Amyl Ether (TAME)	73	11.867	11.867	(0.955)	2335909	75.0000	75.2812
	35 1,2-Dichloroethane	62	11.916	11.916	(0.959)	946898	75.0000	72.3380
*	36 1,4-Difluorobenzene	114	12.429	12.429	(1.000)	802767	50.0000	
	37 Trichloroethene	95	12.843	12.843	(1.033)	788703	75.0000	73.1917
	38 1,2-Dichloropropane	63	13.307	13.307	(1.071)	890883	75.0000	71.2103
$	39 Trifluorotoluene	146	13.317	13.317	(1.071)	1141437	75.0000	83.8020
	40 Dibromomethane	93	13.514	13.514	(1.087)	582258	75.0000	75.7890
	41 Bromodichloromethane	83	13.721	13.721	(1.104)	1020481	75.0000	73.5657
	42 2-Chloroethylvinylether	63	14.194	14.194	(1.142)	375303	75.0000	79.4631
	43 Tetramethyl THF	43	14.441	14.441	(1.162)	1686175	75.0000	75.3006
	44 cis-1,3-Dichloropropene	75	14.471	14.471	(1.164)	1322511	75.0000	71.7996
	45 4-Methyl-2-Pentanone	43	14.668	14.668	(1.180)	921711	75.0000	77.1372
$	46 Toluene-d8	98	14.845	14.845	(1.194)	782190	50.0000	50.5604
	47 Toluene	92	14.954	14.954	(1.203)	1891146	75.0000	73.5207
	48 trans-1,3-Dichloropropene	75	15.348	15.348	(1.235)	1195447	75.0000	74.8339
	49 1,1,2-Trichloroethane	85	15.634	15.634	(1.258)	417778	75.0000	74.4749
	50 Tetrachloroethene	166	15.753	15.753	(0.927)	718552	75.0000	80.8285
	51 1,3-Dichloropropane	76	15.901	15.901	(0.936)	1289763	75.0000	73.2813
	52 2-Hexanone	43	15.920	15.920	(0.937)	621992	75.0000	77.4369
	53 Dibromochloromethane	129	16.187	16.187	(0.953)	818403	75.0000	75.0550
	54 1,2-Dibromoethane	107	16.404	16.404	(1.320)	859748	75.0000	75.2622
*	55 Chlorobenzene-d5	117	16.985	16.985	(1.000)	642748	50.0000	
	56 Chlorobenzene	112	17.025	17.025	(1.002)	2072617	75.0000	71.5145
	57 Ethylbenzene	91	17.104	17.104	(1.007)	3386347	75.0000	73.3225
	58 1,1,1,2-Tetrachloroethane	131	17.124	17.124	(1.008)	694635	75.0000	72.5706
	59 m,p-Xylenes	106	17.262	17.262	(1.016)	2536773	150.000	148.0072
	60 o-Xylene	106	17.784	17.784	(1.047)	1268411	75.0000	72.9797
	61 Styrene	104	17.814	17.814	(1.049)	2261336	75.0000	75.2927
	62 Bromoform	173	18.100	18.100	(1.066)	595489	75.0000	75.1983
	63 Isopropylbenzene	105	18.208	18.208	(0.919)	3161440	75.0000	78.4332

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH15.D
Report Date: 20-Mar-2006 09:44

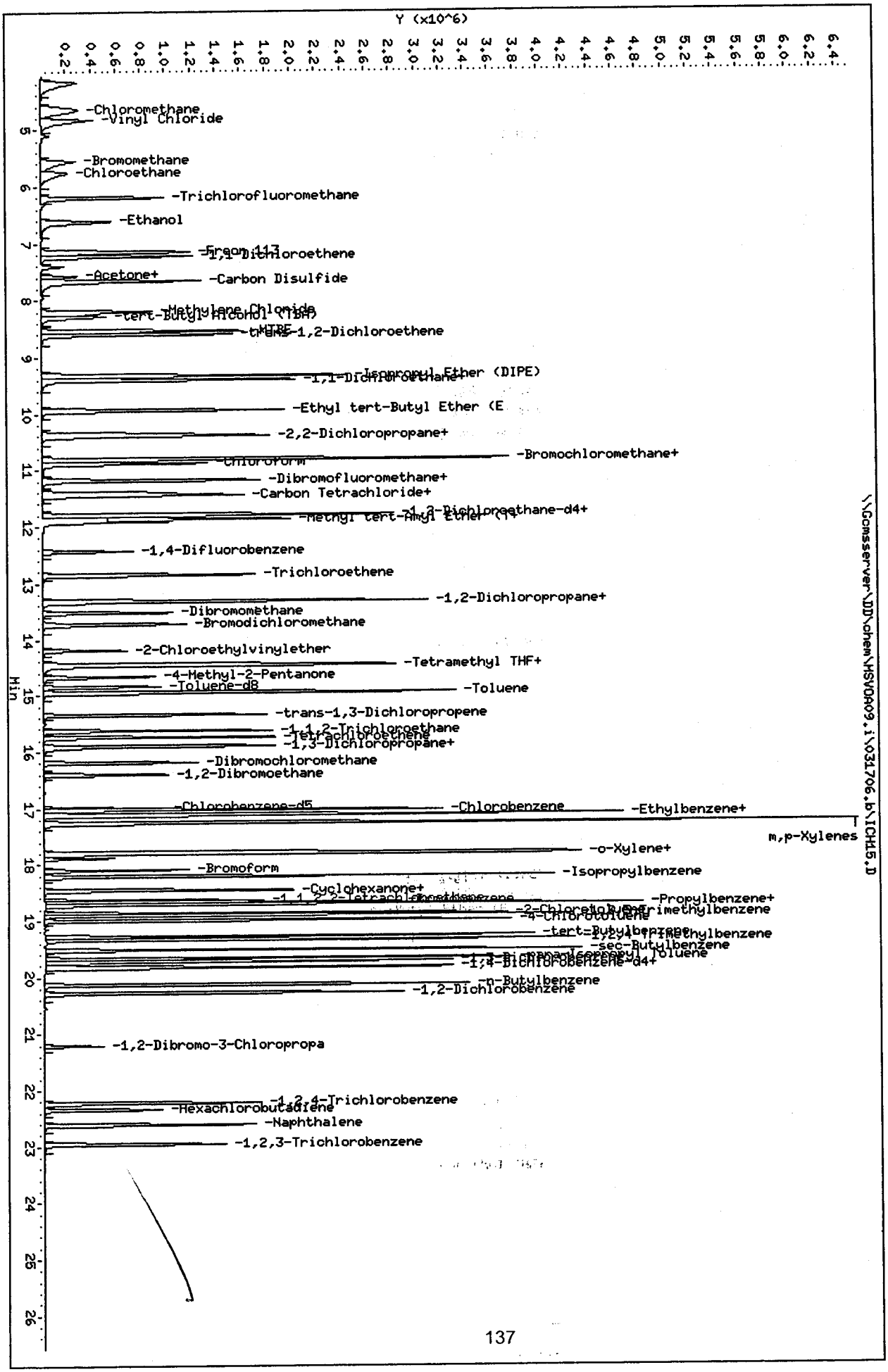
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone	55	18.455	18.455	(0.932)	960511	750.000	804.0080
$ 65 Bromofluorobenzene	95	18.475	18.475	(0.933)	325918	50.0000	50.1133
66 1,1,2,2-Tetrachloroethane	83	18.632	18.632	(0.941)	1057193	75.0000	74.7710
67 Bromobenzene	156	18.672	18.672	(0.943)	847191	75.0000	73.9436
68 Propylbenzene	91	18.701	18.701	(0.944)	3921762	75.0000	77.0546
69 1,2,3-Trichloropropane	110	18.721	18.721	(0.945)	262403	75.0000	76.6884
70 2-Chlorotoluene	91	18.869	18.869	(0.953)	2588628	75.0000	73.7702
71 1,3,5-Trimethylbenzene	105	18.899	18.899	(0.954)	2533573	75.0000	77.1391
72 4-Chlorotoluene	91	18.997	18.997	(0.959)	2408904	75.0000	72.6394
73 tert-Butylbenzene	119	19.274	19.274	(0.973)	2095489	75.0000	80.8833
74 1,2,4-Trimethylbenzene	105	19.343	19.343	(0.977)	2549095	75.0000	76.4620
75 sec-Butylbenzene	105	19.520	19.520	(0.986)	3343922	75.0000	83.2729
76 para-Isopropyl Toluene	119	19.668	19.668	(0.993)	2532253	75.0000	83.0467
77 1,3-Dichlorobenzene	146	19.727	19.727	(0.996)	1511176	75.0000	75.4263
* 78 1,4-Dichlorobenzene-d4	152	19.806	19.806	(1.000)	284558	50.0000	
79 1,4-Dichlorobenzene	146	19.836	19.836	(1.001)	1545632	75.0000	74.2858
80 n-Butylbenzene	91	20.122	20.122	(1.016)	2325589	75.0000	85.2095
81 1,2-Dichlorobenzene	146	20.279	20.279	(1.024)	1407697	75.0000	74.3012
82 1,2-Dibromo-3-Chloropropane	75	21.197	21.197	(1.070)	147928	75.0000	74.8784
83 1,2,4-Trichlorobenzene	180	22.222	22.222	(1.122)	728733	75.0000	87.9410
84 Hexachlorobutadiene	225	22.341	22.341	(1.128)	241758	75.0000	81.1594
85 Naphthalene	128	22.607	22.607	(1.141)	1829626	75.0000	94.4993
86 1,2,3-Trichlorobenzene	180	22.952	22.952	(1.159)	672099	75.0000	93.4199

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA09.i\031706.b\ICH15.D
Date : 17-MAR-2006 17:25
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.015/100,S2783,0.015/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: VOC
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH16.D
Report Date: 20-Mar-2006 09:44

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH16.D
Lab Smp Id:
Inj Date : 17-MAR-2006 17:59
Operator : VOC
Smp Info : ICAL,S2844,0.02/100,S2783,0.02/100
Misc Info : S2410,0.01/100,100PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\826GOX9W.m
Meth Date : 20-Mar-2006 09:44 target
Cal Date : 17-MAR-2006 17:59
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PC_MSVOA07

Client Smp ID: DYNA P&T
MS Autotune Date: 31-JAN-2006 15:03
Inst ID: MSVOA09.i
Quant Type: ISTD
Cal File: ICH16.D
Calibration Sample, Level: 8
Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.142	4.169	(0.373)	1412239	100.000	99.5505
2 Chloromethane	50	4.642	4.643	(0.415)	1796171	100.000	84.1589
3 Vinyl Chloride	62	4.830	4.830	(0.432)	1577680	100.000	93.8040
4 Bromomethane	94	5.550	5.550	(0.496)	831277	100.000	127.6314
5 Chloroethane	64	5.757	5.757	(0.514)	881934	100.000	94.4947
6 Trichlorofluoromethane	101	6.201	6.201	(0.554)	1684456	100.000	98.6704
7 Ethanol	45	6.615	6.615	(0.591)	1680692	10000.0	8940.4922
8 Freon 113	101	7.148	7.148	(0.639)	1101992	100.000	114.4323
9 1,1-Dichloroethene	96	7.226	7.226	(0.646)	985811	100.000	101.3383
10 Acetone	43	7.404	7.404	(0.662)	446236	100.000	84.7872
11 Isopropanol	45	7.572	7.572	(0.677)	778876	1000.00	918.4615
12 Carbon Disulfide	76	7.660	7.660	(0.685)	4101683	100.000	95.1408
13 Methylene Chloride	84	8.193	8.193	(0.732)	1265722	100.000	91.5110
14 tert-Butyl Alcohol (TBA)	59	8.282	8.282	(0.740)	1043625	1000.00	1133.2342(M)
15 MTBE	73	8.528	8.528	(0.762)	3366295	100.000	97.6034
16 trans-1,2-Dichloroethene	96	8.597	8.597	(0.768)	1169106	100.000	96.1126

N 03/20/06

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH16.D
Report Date: 20-Mar-2006 09:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 Isopropyl Ether (DIPE)	45	9.327	9.327	(0.833)	4696516	100.000	94.0150
	18 1,1-Dichloroethane	63	9.396	9.396	(0.840)	2038615	100.000	92.7499
	19 Vinyl Acetate	43	9.396	9.396	(0.840)	2635683	100.000	87.8406
	20 Ethyl tert-Butyl Ether (ETBE)	59	9.939	9.939	(0.888)	3530099	100.000	95.8785
	21 2,2-Dichloropropane	77	10.353	10.353	(0.925)	1263999	100.000	96.5512
	22 cis-1,2-Dichloroethene	96	10.382	10.382	(0.928)	1275768	100.000	95.2969
	23 2-Butanone	43	10.392	10.392	(0.929)	606571	100.000	92.1002
	24 Bromochloromethane	128	10.806	10.806	(0.966)	631558	100.000	98.4449
	25 Tetrahydrofuran	42	10.806	10.806	(0.966)	3050903	1000.00	808.1473
	26 Chloroform	83	10.885	10.885	(0.973)	1904503	100.000	92.6921
$	27 Dibromofluoromethane	113	11.161	11.161	(0.997)	277031	50.0000	48.8961
	28 1,1,1-Trichloroethane	97	11.181	11.181	(0.999)	1342826	100.000	96.8244
*	29 Pentafluorobenzene	168	11.191	11.191	(1.000)	493766	50.0000	
	30 Carbon Tetrachloride	117	11.398	11.398	(0.917)	1119821	100.000	102.5458
	31 1,1-Dichloropropene	75	11.438	11.438	(0.920)	1415066	100.000	99.2576
$	32 1,2-Dichloroethane-d4	65	11.783	11.783	(0.948)	245343	50.0000	47.0669
	33 Benzene	78	11.793	11.793	(0.948)	4368344	100.000	91.6858
	34 Methyl tert-Amyl Ether (TAME)	73	11.862	11.862	(0.954)	3228112	100.000	98.3918
	35 1,2-Dichloroethane	62	11.921	11.921	(0.959)	1312845	100.000	94.8542
*	36 1,4-Difluorobenzene	114	12.434	12.434	(1.000)	848809	50.0000	
	37 Trichloroethene	95	12.848	12.848	(1.033)	1107473	100.000	97.1989
	38 1,2-Dichloropropane	63	13.311	13.311	(1.071)	1207159	100.000	91.2570
$	39 Trifluorotoluene	146	13.321	13.321	(1.071)	1501812	100.000	104.2792
	40 Dibromomethane	93	13.519	13.519	(1.087)	809500	100.000	99.6523
	41 Bromodichloromethane	83	13.726	13.726	(1.104)	1425280	100.000	97.1740
	42 2-Chloroethylvinylether	63	14.189	14.189	(1.141)	478964	100.000	95.9105
	43 Tetramethyl THF	43	14.446	14.446	(1.162)	2192182	100.000	92.5874
	44 cis-1,3-Dichloropropene	75	14.475	14.475	(1.164)	1835550	100.000	94.2472
	45 4-Methyl-2-Pentanone	43	14.672	14.672	(1.180)	1167512	100.000	92.4081
$	46 Toluene-d8	98	14.850	14.850	(1.194)	809193	50.0000	49.4686
	47 Toluene	92	14.949	14.949	(1.202)	2559865	100.000	94.1199
	48 trans-1,3-Dichloropropene	75	15.353	15.353	(1.235)	1641113	100.000	97.1597
	49 1,1,2-Trichloroethane	85	15.629	15.629	(1.257)	571009	100.000	96.2691
	50 Tetrachloroethene	166	15.747	15.747	(0.927)	967367	100.000	104.3337
	51 1,3-Dichloropropane	76	15.905	15.905	(0.937)	1763535	100.000	96.0715
	52 2-Hexanone	43	15.925	15.925	(0.938)	803441	100.000	95.9056
	53 Dibromochloromethane	129	16.191	16.191	(0.954)	1144747	100.000	100.6581
	54 1,2-Dibromoethane	107	16.398	16.398	(1.319)	1173012	100.000	97.1153
*	55 Chlorobenzene-d5	117	16.980	16.980	(1.000)	670369	50.0000	
	56 Chlorobenzene	112	17.020	17.020	(1.002)	2806523	100.000	92.8475
	57 Ethylbenzene	91	17.099	17.099	(1.007)	4394342	100.000	91.2277
	58 1,1,1,2-Tetrachloroethane	131	17.128	17.128	(1.009)	952924	100.000	95.4529
	59 m,p-Xylenes	106	17.256	17.256	(1.016)	3311482	200.000	185.2467
	60 o-Xylene	106	17.779	17.779	(1.047)	1705283	100.000	94.0730
	61 Styrene	104	17.809	17.809	(1.049)	3060306	100.000	97.6966
	62 Bromoform	173	18.104	18.104	(1.066)	817519	100.000	98.9827
	63 Isopropylbenzene	105	18.213	18.213	(0.920)	4049896	100.000	98.3452

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\031706.b\ICH16.D
Report Date: 20-Mar-2006 09:44

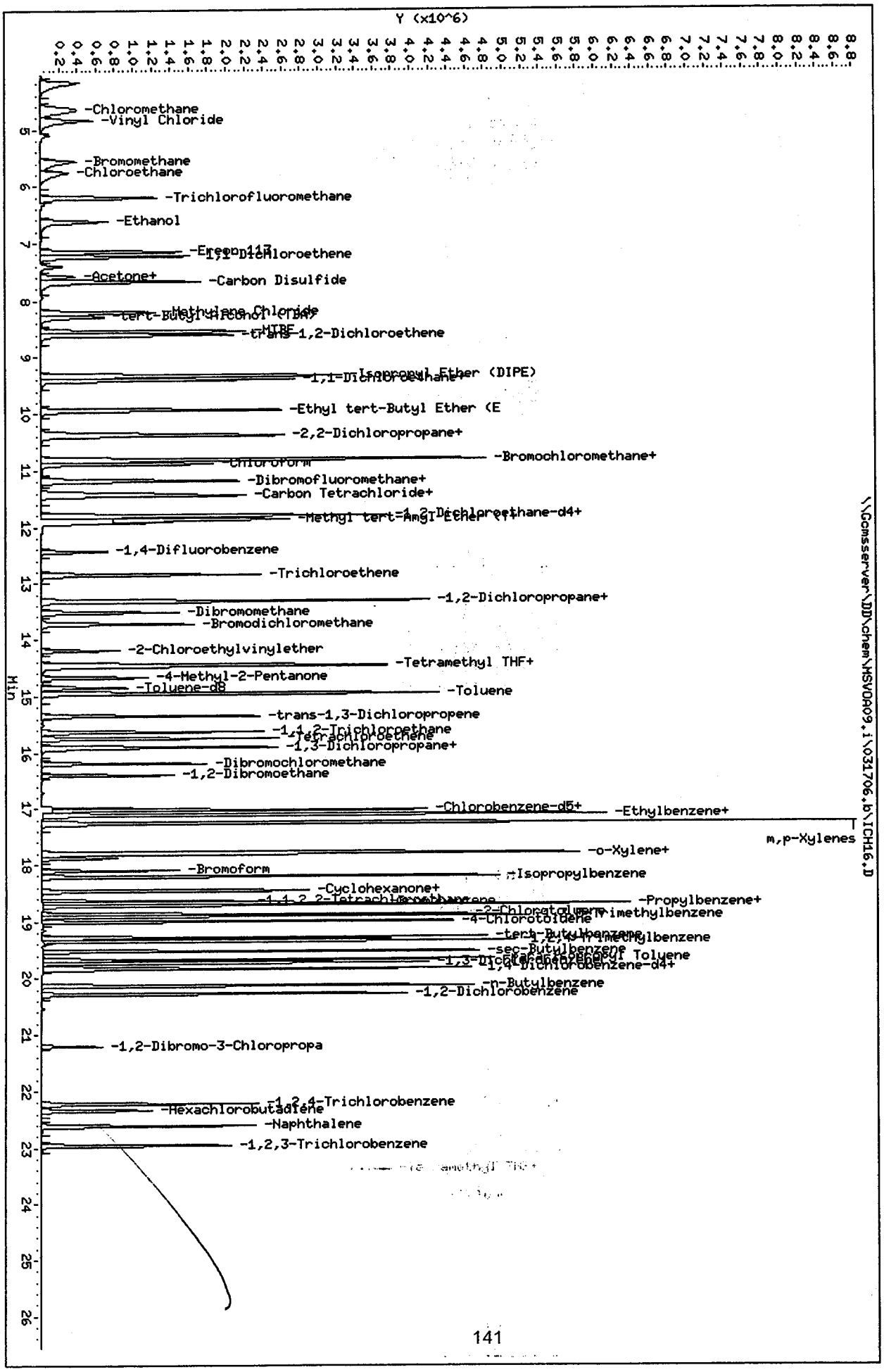
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Cyclohexanone	55	18.450	18.450	(0.932)	1535141	1000.00	1257.7684
$ 65 Bromofluorobenzene	95	18.469	18.469	(0.933)	333793	50.0000	50.2362
66 1,1,2,2-Tetrachloroethane	83	18.637	18.637	(0.941)	1370987	100.000	94.9088
67 Bromobenzene	156	18.676	18.676	(0.943)	1152332	100.000	98.4445
68 Propylbenzene	91	18.706	18.706	(0.945)	4996334	100.000	96.0867
69 1,2,3-Trichloropropane	110	18.726	18.726	(0.946)	339399	100.000	97.0881
70 2-Chlorotoluene	91	18.864	18.864	(0.953)	3383889	100.000	94.3892
71 1,3,5-Trimethylbenzene	105	18.903	18.903	(0.955)	3264289	100.000	97.2801
72 4-Chlorotoluene	91	19.002	19.002	(0.960)	3160356	100.000	93.2788
73 tert-Butylbenzene	119	19.278	19.278	(0.974)	2640316	100.000	99.7525
74 1,2,4-Trimethylbenzene	105	19.337	19.337	(0.977)	3367487	100.000	98.8690
75 sec-Butylbenzene	105	19.525	19.525	(0.986)	4121495	100.000	100.4609
76 para-Isopropyl Toluene	119	19.663	19.663	(0.993)	3183774	100.000	102.2002
77 1,3-Dichlorobenzene	146	19.722	19.722	(0.996)	2009378	100.000	98.1666
* 78 1,4-Dichlorobenzene-d4	152	19.801	19.801	(1.000)	290721	50.0000	
79 1,4-Dichlorobenzene	146	19.830	19.830	(1.001)	2077487	100.000	97.7310
80 n-Butylbenzene	91	20.126	20.126	(1.016)	2931602	100.000	105.1367
81 1,2-Dichlorobenzene	146	20.274	20.274	(1.024)	1878819	100.000	97.0658
82 1,2-Dibromo-3-Chloropropane	75	21.201	21.201	(1.071)	192232	100.000	95.2415
83 1,2,4-Trichlorobenzene	180	22.217	22.217	(1.122)	995628	100.000	117.6020
84 Hexachlorobutadiene	225	22.335	22.335	(1.128)	302700	100.000	99.4638
85 Naphthalene	128	22.612	22.612	(1.142)	2518230	100.000	127.3081
86 1,2,3-Trichlorobenzene	180	22.957	22.957	(1.159)	925031	100.000	125.8511

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA09.i\031706.b\ICH16.D
Date : 17-MAR-2006 17:59
Client ID: DYNA P&T
Sample Info: ICAL,S2844,0.02/100,S2783,0.02/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: VOC
Column diameter: 0.25



8260/6450X w ICAL

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA09 Run Name: 25PPB IDF : 1.0
Seqnum : 486109916017 File : ich17 Time : 17-MAR-2006 18:33
Cal : 486109916001 Caldate : 17-MAR-2006 Caltype : WATER
Standards: S2953 (10000X), S2743 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	1.4365	1.5313	25.00	26.65	ug/L	7	30	
Chloromethane	2.1612	1.9273	25.00	22.29	ug/L	-11	30	
Vinyl Chloride	1.7031	1.5359	25.00	22.55	ug/L	-10	20	
Bromomethane	0.6595	0.6641	25.00	21.59	ug/L	-14	30	
Chloroethane	0.9451	0.8791	25.00	23.25	ug/L	-7	30	
Trichlorofluoromethane	1.7287	1.6625	25.00	24.04	ug/L	-4	30	

ISTD (ICAL ich14)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	451410	489617	8.46	11.19	11.19	0.00
1,4-Difluorobenzene	765948	821860	7.30	12.43	12.43	0.00
1,4-Dichlorobenzene-d4	274931	292456	6.37	19.81	19.80	-0.01

8260/6250X w ICAL

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA09 Run Name: 25PPB IDF : 1.0
Seqnum : 486109916018 File : ich18 Time : 17-MAR-2006 19:07
Cal : 486109916001 Caldate : 17-MAR-2006 Caltype : WATER
Standards: S2902 (10000X), S2616 (10000X), S2743 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Acetone	0.4709	0.3759	25.00	19.96	ug/L	-20	40	
Freon 113	1.0231	0.9619	25.00	23.50	ug/L	-6	30	
1,1-Dichloroethene	0.9965	1.0014	25.00	25.12	ug/L	0	20	
Methylene Chloride	1.3775	1.3531	25.00	24.56	ug/L	-2	30	
Carbon Disulfide	4.3656	3.3761	25.00	19.33	ug/L	**-23**	30	!v-
MTBE	3.4925	2.9638	25.00	21.22	ug/L	-15	30	
trans-1,2-Dichloroethene	1.2317	1.1733	25.00	23.81	ug/L	-5	30	
Vinyl Acetate	3.0384	2.4509	25.00	20.17	ug/L	-19	40	
1,1-Dichloroethane	2.2257	2.1560	25.00	24.22	ug/L	-3	30	
2-Butanone	0.6669	0.6236	25.00	23.38	ug/L	-6	40	
2,2-Dichloropropane	1.3257	1.2315	25.00	23.22	ug/L	-7	30	
cis-1,2-Dichloroethene	1.3556	1.3418	25.00	24.75	ug/L	-1	30	
Chloroform	2.0806	1.9224	25.00	23.10	ug/L	-8	20	
Bromochloromethane	0.6496	0.6698	25.00	25.78	ug/L	3	30	
1,1,1-Trichloroethane	1.4044	1.3478	25.00	23.99	ug/L	-4	30	
1,1-Dichloropropene	0.8558	0.8547	25.00	24.97	ug/L	0	30	
Carbon Tetrachloride	0.6433	0.6610	25.00	25.69	ug/L	3	30	
1,2-Dichloroethane	0.8153	0.8245	25.00	25.28	ug/L	1	30	
Benzene	2.8066	2.7159	25.00	24.19	ug/L	-3	30	
Trichloroethene	0.6712	0.6768	25.00	25.21	ug/L	1	30	
1,2-Dichloropropane	0.7792	0.7805	25.00	25.04	ug/L	0	20	
Bromodichloromethane	0.8640	0.9085	25.00	26.29	ug/L	5	30	
Dibromomethane	0.4927	0.4967	25.00	25.20	ug/L	1	30	
2-Chloroethylvinylether	0.2942	0.3296	25.00	28.01	ug/L	12	40	
4-Methyl-2-Pentanone	0.7442	0.7396	25.00	24.84	ug/L	-1	40	
Tetramethyl THF	1.3947	1.3757	25.00	24.66	ug/L	-1	30	
cis-1,3-Dichloropropene	1.1472	1.1625	25.00	25.33	ug/L	1	30	
Toluene	1.6021	1.6226	25.00	25.32	ug/L	1	20	
trans-1,3-Dichloropropene	0.9950	0.9623	25.00	24.18	ug/L	-3	30	
1,1,2-Trichloroethane	0.3494	0.3684	25.00	26.36	ug/L	5	30	
2-Hexanone	0.6248	0.5894	25.00	23.58	ug/L	-6	40	
1,3-Dichloropropane	1.3691	1.4388	25.00	26.27	ug/L	5	30	
Tetrachloroethene	0.6915	0.7132	25.00	25.78	ug/L	3	30	
Dibromochloromethane	0.8482	0.9204	25.00	27.13	ug/L	9	30	
1,2-Dibromoethane	0.7115	0.7489	25.00	26.31	ug/L	5	30	
Chlorobenzene	2.2545	2.2596	25.00	25.06	ug/L	0	30	
1,1,1,2-Tetrachloroethane	0.7446	0.7678	25.00	25.78	ug/L	3	30	
Ethylbenzene	3.5927	3.6324	25.00	25.28	ug/L	1	20	
m,p-Xylenes	1.3333	1.3871	50.00	52.02	ug/L	4	30	
o-Xylene	1.3520	1.4131	25.00	26.13	ug/L	5	30	
Styrene	2.3364	2.4388	25.00	26.10	ug/L	4	30	
Bromoform	0.6160	0.6328	25.00	25.68	ug/L	3	30	
Isopropylbenzene	7.0825	6.6825	25.00	23.59	ug/L	-6	30	
1,1,2,2-Tetrachloroethane	2.4844	2.5486	25.00	25.65	ug/L	3	30	
1,2,3-Trichloropropane	0.6147	0.6325	25.00	25.73	ug/L	3	30	
Propylbenzene	8.9430	9.2544	25.00	25.87	ug/L	3	30	
Bromobenzene	2.0132	1.9974	25.00	24.80	ug/L	-1	30	
1,3,5-Trimethylbenzene	5.7711	6.0255	25.00	26.10	ug/L	4	30	
2-Chlorotoluene	6.1658	6.3096	25.00	25.58	ug/L	2	30	

12/3/2007

8260/6A50x w ICAL

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
4-Chlorotoluene	5.8270	5.8092	25.00	24.92	ug/L	0	30	
tert-Butylbenzene	4.5522	4.8890	25.00	26.85	ug/L	7	30	
1,2,4-Trimethylbenzene	5.8579	6.0393	25.00	25.77	ug/L	3	30	
sec-Butylbenzene	7.0559	7.8400	25.00	27.78	ug/L	11	30	
para-Isopropyl Toluene	5.3578	5.6803	25.00	26.51	ug/L	6	30	
1,3-Dichlorobenzene	3.5204	3.6376	25.00	25.83	ug/L	3	30	
1,4-Dichlorobenzene	3.6559	3.7539	25.00	25.67	ug/L	3	30	
n-Butylbenzene	4.9201	5.3852	25.00	27.36	ug/L	9	30	
1,2-Dichlorobenzene	3.3290	3.4779	25.00	26.12	ug/L	4	30	
1,2-Dibromo-3-Chloropropane	0.3471	0.3651	25.00	26.29	ug/L	5	30	
1,2,4-Trichlorobenzene	1.4560	1.7125	25.00	26.05	ug/L	4	30	
Hexachlorobutadiene	0.5167	0.6416	25.00	33.53	ug/L	**34**	30	v+ ***
Naphthalene	3.4020	4.0956	25.00	24.88	ug/L	0	30	
1,2,3-Trichlorobenzene	1.2641	1.5481	25.00	25.65	ug/L	3	30	
tert-Butyl Alcohol (TBA)	0.1024	0.1142	125.0	122.8	ug/L	-2	30	m
Isopropyl Ether (DIPE)	5.0586	4.3053	25.00	21.28	ug/L	-15	30	
Ethyl tert-Butyl Ether (ETBE)	3.7283	3.5049	25.00	23.50	ug/L	-6	30	
Methyl tert-Amyl Ether (TAME)	1.9326	1.7991	25.00	23.27	ug/L	-7	30	
Cyclohexanone	0.2099	0.0313	250.0	42.85	ug/L	**-83**	30	v- ***
Ethanol	0.0194	0.0174	2500	2239	ug/L	-10	30	
Isopropanol	0.0859	0.0731	250.0	212.8	ug/L	-15	30	
Tetrahydrofuran	0.3823	0.3413	250.0	223.2	ug/L	-11	30	

ISTD (ICAL ich14)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	451410	496829	10.06	11.19	11.19	0.00
1,4-Difluorobenzene	765948	824740	7.68	12.43	12.43	0.00
Chlorobenzene-d5	614102	663872	8.10	16.99	16.99	0.00
1,4-Dichlorobenzene-d4	274931	301491	9.66	19.81	19.80	-0.01

!=warning +=high bias -=low bias m=manual integration v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 8260B

Inst : MSVOA10
Calnum : 496108554002
Units : ug/L

Name : 826GOX10
Date : 16-MAR-2006 14:04
X Axis : R

Type : WATER

Inj Vol: 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	jcg09	496108554009	0.25/0.5PPB	16-MAR-2006 14:04	S2783 (1000000X), S2844 (2000000X), S2410 (2000000X), S2707 (5000X)
L2	jcg10	496108554010	0.5/1PPB	16-MAR-2006 14:39	S2783 (500000X), S2844 (1000000X), S2410 (1000000X), S2707 (5000X)
L3	jcg11	496108554011	2PPB	16-MAR-2006 15:14	S2783 (250000X), S2844 (250000X), S2410 (500000X), S2707 (5000X)
L4	jcg12	496108554012	5PPB	16-MAR-2006 15:49	S2783 (100000X), S2844 (100000X), S2410 (200000X), S2707 (5000X)
L5	jcg13	496108554013	10PPB	16-MAR-2006 16:25	S2783 (50000X), S2844 (50000X), S2410 (100000X), S2707 (5000X)
L6	jcg14	496108554014	20PPB	16-MAR-2006 17:00	S2783 (25000X), S2844 (25000X), S2410 (50000X), S2707 (5000X)
L7	jcg15	496108554015	50PPB	16-MAR-2006 17:35	S2783 (10000X), S2844 (10000X), S2410 (20000X), S2707 (5000X)
L8	jcg16	496108554016	75PPB	16-MAR-2006 18:10	S2783 (6667X), S2844 (6667X), S2410 (13330X), S2707 (5000X)
L9	jcg17	496108554017	100PPB	16-MAR-2006 18:45	S2783 (5000X), S2844 (5000X), S2410 (10000X), S2707 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.2982	0.2558	0.3105	0.2678	0.2775	0.3142	0.3641	0.3676	AVRG		3.25796		0.3069	14	15	0.050	0.99	
Chloromethane		0.5036	0.5587	0.5523	0.5340	0.5668	0.5302	0.5531	0.5574	AVRG		1.83656		0.5445	4	15	0.10	0.99	
Vinyl Chloride	0.4845	0.4583	0.4672	0.4864	0.4388	0.4667	0.4610	0.5206	0.5167	AVRG		2.09284		0.4778	6	15	0.050	0.99	
Bromomethane		0.1644	0.1484	0.1483	0.1796	0.2221	0.2239	0.2505	0.2584	QUAD	1.01569	4.58174	-0.02989	0.1994	0.999	15	0.050	0.99	
Chloroethane		0.2814	0.3257	0.3021	0.2840	0.3036	0.2821	0.3051	0.3031	AVRG		3.35148		0.2984	5	15	0.050	0.99	
Trichlorofluoromethane		0.4180	0.4229	0.4453	0.3934	0.3967	0.4274	0.5063	0.5066	AVRG		2.27489		0.4396	10	15	0.050	0.99	
Acetone			0.1408	0.1363	0.1458	0.1251	0.1451	0.1529	0.1118	AVRG		7.30721		0.1369	10	15	0.050	0.99	
Freon 113		0.2637	0.1751	0.2510	0.2646	0.3127	0.2738	0.2645	0.3149	QUAD	-0.8890	4.24472	-0.03178	0.2650	0.996	15	0.050	0.99	
1,1-Dichloroethene		0.3078	0.2590	0.2827	0.2896	0.3073	0.2730	0.2839	0.2911	AVRG		3.48676		0.2868	6	15	0.050	0.99	
Methylene Chloride		0.5447	0.4762	0.4367	0.4361	0.4548	0.4159	0.4043	0.4053	AVRG		2.23839		0.4467	10	15	0.050	0.99	
Carbon Disulfide		1.3646	1.2798	1.3156	1.2962	1.4229	1.2698	1.2904	1.2961	AVRG		0.75935		1.3169	4	15	0.050	0.99	
MTBE		1.0224	1.1074	1.1176	1.1271	1.1468	1.1093	1.1029	1.0703	AVRG		0.90871		1.1005	3	15	0.050	0.99	
trans-1,2-Dichloroethene		0.3754	0.3712	0.3704	0.3618	0.3822	0.3432	0.3491	0.3487	AVRG		2.75682		0.3627	4	15	0.050	0.99	
Vinyl Acetate		1.4636	1.0641m	1.0312m	0.9836m	1.0977m	0.9901m	0.9087m	1.0665m	LINR	0.45840	0.98001		1.0757	0.991	15	0.050	0.99	
1,1-Dichloroethane		0.6387	0.7187	0.6761	0.6777	0.7161	0.6267	0.6261	0.6172	AVRG		1.51022		0.6622	6	15	0.10	0.99	
2-Butanone			0.1933	0.2021	0.2067	0.2163	0.2263	0.2269	0.1868	AVRG		4.79943		0.2084	8	15	0.050	0.99	
2,2-Dichloropropane		0.4352	0.4250	0.4073	0.4092	0.4260	0.3797	0.3828	0.3893	AVRG		2.45811		0.4068	5	15	0.050	0.99	
cis-1,2-Dichloroethene		0.3830	0.4548	0.4111	0.4045	0.4356	0.3897	0.3941	0.3849	AVRG		2.45577		0.4072	6	15	0.050	0.99	
Chloroform		0.5805	0.6606	0.6458	0.6284	0.6656	0.5919	0.5978	0.5903	AVRG		1.61261		0.6201	6	15	0.050	0.99	
Bromochloromethane		0.1605	0.2118	0.2023	0.2037	0.2170	0.2027	0.2029	0.1971	AVRG		5.00651		0.1997	9	15	0.050	0.99	
1,1,1-Trichloroethane		0.3863	0.4092	0.4006	0.4033	0.4381	0.3821	0.3950	0.4113	AVRG		2.47996		0.4032	4	15	0.050	0.99	
1,1-Dichloropropene		0.2281	0.2040	0.2114	0.2111	0.2282	0.1975	0.2015	0.2174	AVRG		4.70828		0.2124	5	15	0.050	0.99	
Carbon Tetrachloride		0.1412	0.1293	0.1438	0.1440	0.1601	0.1395	0.1439	0.1627	AVRG		6.86962		0.1456	7	15	0.050	0.99	
1,2-Dichloroethane		0.2221	0.2406	0.2405	0.2324	0.2409	0.2276	0.2283	0.2269	AVRG		4.30249		0.2324	3	15	0.050	0.99	

No 2 Clave, ICAL - Good, ICV - HEBUT, + A.C. B. Lin - F12S

3/17/06

3/17/06

496108554002

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		0.6922	0.7259	0.7162	0.6915	0.7307	0.6459	0.6598	0.6582	AVRG		1.44916		0.6901	5	15	0.050	0.99	
Trichloroethene		0.1819	0.1754	0.1800	0.1707	0.1846	0.1610	0.1674	0.1677	AVRG		5.76141		0.1736	5	15	0.050	0.99	
1,2-Dichloropropane		0.1931	0.2210	0.2130	0.2139	0.2178	0.1990	0.1996	0.1991	AVRG		4.82949		0.2071	5	15	0.050	0.99	
Bromodichloromethane		0.2076	0.2278	0.2335	0.2330	0.2405	0.2257	0.2266	0.2289	AVRG		4.38714		0.2279	4	15	0.050	0.99	
Dibromomethane		0.1159	0.1296	0.1364	0.1399	0.1431	0.1356	0.1344	0.1343	AVRG		7.48190		0.1337	6	15	0.050	0.99	
2-Chloroethylvinylether						0.0014	0.0016	0.0016	0.0015	AVRG		649.900		**0.0015**	5	15	0.050	0.99	irf ***
4-Methyl-2-Pentanone			0.1948	0.2146	0.2208	0.2264	0.2429	0.2316	0.2091	AVRG		4.54532		0.2200	7	15	0.050	0.99	
Tetramethyl THF		0.3567	0.3989	0.4220	0.4184	0.4275	0.3872	0.4044	0.3898	AVRG		2.49615		0.4006	6	15	0.050	0.99	
cis-1,3-Dichloropropene		0.2710	0.3056	0.3016	0.3080	0.3155	0.2955	0.3011	0.2993	AVRG		3.33675		0.2997	4	15	0.050	0.99	
Toluene		0.3987	0.4174	0.3970	0.3926	0.4183	0.3729	0.3731	0.3809	AVRG		2.53912		0.3938	5	15	0.050	0.99	
trans-1,3-Dichloropropene		0.2166	0.2466	0.2536	0.2633	0.2745	0.2595	0.2628	0.2611	AVRG		3.92534		0.2548	7	15	0.050	0.99	
1,1,2-Trichloroethane		0.0910	0.0973	0.0999	0.0994	0.0999	0.0964	0.0979	0.0980	AVRG		10.2590		0.0975	3	15	0.050	0.99	
2-Hexanone			0.1253m	0.1420	0.1638	0.1660	0.1671	0.1686	0.1489	AVRG		6.47094		0.1545	11	15	0.050	0.99	
1,3-Dichloropropane		0.3024	0.3484	0.3546	0.3542	0.3531	0.3407	0.3359	0.3337	AVRG		2.93801		0.3404	5	15	0.050	0.99	
Tetrachloroethene		0.1288	0.1380	0.1386	0.1363	0.1516	0.1329	0.1339	0.1470	AVRG		7.22541		0.1384	5	15	0.050	0.99	
Dibromochloromethane		0.1810	0.1870	0.1898	0.2026	0.2034	0.1990	0.1999	0.2011	AVRG		5.11592		0.1955	4	15	0.050	0.99	
1,2-Dibromoethane		0.1723	0.1864	0.1908	0.1948	0.1983	0.1885	0.1922	0.1890	AVRG		5.28972		0.1890	4	15	0.050	0.99	
Chlorobenzene		0.4944	0.5381	0.5306	0.5175	0.5390	0.4889	0.4851	0.4962	AVRG		1.95610		0.5112	4	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.1416	0.1652	0.1667	0.1640	0.1724	0.1635	0.1616	0.1649	AVRG		6.15505		0.1625	6	15	0.050	0.99	
Ethylbenzene		0.8051	0.8649	0.8279	0.8106	0.8723	0.7676	0.7683	0.7931	AVRG		1.22891		0.8137	5	15	0.050	0.99	
m,p-Xylenes	0.2682	0.2607	0.3056	0.2800	0.2820	0.3052	0.2727	0.2758	0.2846	AVRG		3.55055		0.2816	5	15	0.050	0.99	
o-Xylene		0.2669	0.3019	0.2951	0.2829	0.2973	0.2715	0.2737	0.2797	AVRG		3.52569		0.2836	5	15	0.050	0.99	
Styrene		0.4221	0.5010	0.4786	0.4890	0.5181	0.4833	0.4943	0.4962	AVRG		2.06046		0.4853	6	15	0.050	0.99	
Bromoform		0.1431	0.1256	0.1180	0.1257	0.1307	0.1276	0.1279	0.1259	AVRG		7.80861		0.1281	6	15	0.10	0.99	
Isopropylbenzene		2.0473	2.1273	2.0789	1.9479	2.0892	1.7598	1.6960	1.7977	AVRG		0.51466		1.9430	9	15	0.050	0.99	
1,1,2,2-Tetrachloroethane		0.7809	0.8750	0.9154	0.8746	0.8857	0.8123	0.7803	0.7527	AVRG		1.19816		0.8346	7	15	0.30	0.99	
1,2,3-Trichloropropane		0.9039	0.7434	0.7944	0.7056	0.7028	0.6728	0.6424	0.6163	AVRG		1.38371		0.7227	13	15	0.050	0.99	
Propylbenzene		2.2472	2.3887	2.3005	2.2178	2.4317	2.0661	2.0321	2.1909	AVRG		0.44756		2.2344	6	15	0.050	0.99	
Bromobenzene		0.4645	0.5402	0.5394	0.5054	0.5272	0.4762	0.4590	0.4582	AVRG		2.01510		0.4963	7	15	0.050	0.99	
1,3,5-Trimethylbenzene		1.0795	1.2354	1.2121	1.1647	1.3008	1.1418	1.1755	1.2390	AVRG		0.83781		1.1936	6	15	0.050	0.99	
2-Chlorotoluene		1.6520	1.8649	1.7277	1.6195	1.7324	1.5188	1.4746	1.5008	AVRG		0.61112		1.6363	8	15	0.050	0.99	
4-Chlorotoluene		1.3979	1.6268	1.5009	1.4145	1.5415	1.3647	1.3471	1.3935	AVRG		0.69043		1.4484	7	15	0.050	0.99	
tert-Butylbenzene		1.1706	1.2910m	1.2420m	1.2077m	1.3331m	1.1440m	1.1340m	1.2274m	AVRG		0.82053		1.2187	6	15	0.050	0.99	
1,2,4-Trimethylbenzene		0.9480	1.0817	1.0568	1.0312	1.1540	1.0752	1.1153	1.1625	AVRG		0.92758		1.0781	6	15	0.050	0.99	
sec-Butylbenzene		1.6880	1.6151	1.6767	1.6378	1.8462	1.5581	1.5461	1.7300	AVRG		0.60159		1.6623	6	15	0.050	0.99	
para-Isopropyl Toluene		0.9554	1.0743	1.0175	1.0404	1.1996	1.0562	1.0761	1.1900	AVRG		0.92921		1.0762	8	15	0.050	0.99	
1,3-Dichlorobenzene		0.7714	0.9840	0.8644	0.8514	0.8828	0.7941	0.7826	0.7974	AVRG		1.18904		0.8410	8	15	0.050	0.99	
1,4-Dichlorobenzene		0.8266	0.8659	0.8574	0.8185	0.8503	0.7853	0.7889	0.7996	AVRG		1.21350		0.8241	4	15	0.050	0.99	
n-Butylbenzene		0.7337	0.7575	0.8089	0.8236	0.9921	0.8771	0.9123	1.0390	AVRG		1.15203		0.8680	12	15	0.050	0.99	
1,2-Dichlorobenzene		0.7133	0.8395	0.8392	0.8043	0.8647	0.7934	0.7670	0.7817	AVRG		1.24940		0.8004	6	15	0.050	0.99	
1,2-Dibromo-3-Chloropropane		0.0527	0.1103	0.1223	0.1353	0.1311	0.1279	0.1230	0.1163	LINR	-0.9022	8.40756		0.1149	0.997	15	0.050	0.99	

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Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,4-Trichlorobenzene		0.0961	0.1525	0.1732	0.1866	0.2340	0.2269	0.2433	0.2561	QUAD	0.61976	4.60093	-0.02813	0.1961	1.000	15	0.050	0.99	
Hexachlorobutadiene		0.0210	0.0940	0.1050	0.1107	0.1371	0.1122	0.1099	0.1273	QUAD	-0.8638	9.96564	-0.15167	0.1021	0.995	15	0.050	0.99	
Naphthalene		0.5645	0.5406	0.5028	0.5606	0.6250	0.6410	0.6817	0.6762	AVRG		1.66933		0.5990	11	15	0.050	0.99	
1,2,3-Trichlorobenzene		0.0472	0.1349	0.1570	0.1809	0.2189	0.2209	0.2361	0.2418	QUAD	0.95783	4.60892	-0.02168	0.1797	1.000	15	0.050	0.99	
tert-Butyl Alcohol (TBA)		0.0270	0.0332	0.0372	0.0376	0.0385	0.0378	0.0374	0.0344	AVRG		28.2523		0.0354	11	15	0.005	0.99	
Isopropyl Ether (DIPE)		1.4075	1.5448	1.5230	1.4943	1.5590	1.4397	1.4078	1.3721	AVRG		0.68094		1.4686	5	15	0.050	0.99	
Ethyl tert-Butyl Ether (ETBE)		1.0411	1.1762	1.1408	1.1471	1.1728	1.0916	1.0837	1.0348	AVRG		0.90007		1.1110	5	15	0.050	0.99	
Methyl tert-Amyl Ether (TAME)		0.4980	0.5364	0.5287	0.5299	0.5408	0.5132	0.5149	0.5007	AVRG		1.92186		0.5203	3	15	0.050	0.99	
Ethanol		0.0049	0.0054	0.0061	0.0058	0.0059	0.0060	0.0057	0.0055	AVRG		176.870		0.0057	7	15	0.0005	0.99	
Isopropanol		0.0204	0.0216	0.0269	0.0273	0.0273	0.0278	0.0272	0.0256	AVRG		39.1725		0.0255	11	15	0.005	0.99	
Tetrahydrofuran		0.1236	0.1218	0.1206	0.1247	0.1271	0.1209	0.1206	0.1066	AVRG		8.28139		0.1208	5	15	0.005	0.99	
Dibromofluoromethane	0.7181	0.7189	0.7259	0.7293	0.7319	0.7221	0.7249	0.7250	0.7113	AVRG		1.38305		0.7230	1	15	0.050	0.99	
1,2-Dichloroethane-d4	0.3744	0.3774	0.3791	0.3774	0.3796	0.3753	0.3745	0.3786	0.3715	AVRG		2.65656		0.3764	1	15	0.050	0.99	
Trifluorotoluene		0.1652	0.1543	0.1704	0.1740	0.1950	0.1671	0.1677	0.1887	AVRG		5.78716		0.1728	8	15	0.050	0.99	
Toluene-d8	1.0606	1.0544	1.0627	1.0763	1.0576	1.0651	1.0585	1.0757	1.0759	AVRG		0.93878		1.0652	1	15	0.050	0.99	
Bromofluorobenzene	1.5339	1.4707	1.4847	1.4935	1.4233	1.3978	1.3437	1.2993	1.3036	AVRG		0.70587		1.4167	6	15	0.050	0.99	

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irf=ICAL minimum RF failure m=manual integration

AVRG=Average response factor LINR=Linear regression QUAD=Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG09.D
Report Date: 17-Mar-2006 12:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG09.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-MAR-2006 14:04 MS Autotune Date: 27-JUL-1998 20:19
Operator : VOC Inst ID: MSVOA10.i
Smp Info : ICAL,S2783,0.001/1000,S2844,0.0005/1000
Misc Info : S2410,0.0005/1000,0.25/0.5PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\826GOX10.m
Meth Date : 17-Mar-2006 12:29 target Quant Type: ISTD
Cal Date : 16-MAR-2006 14:04 Cal File: JCG09.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

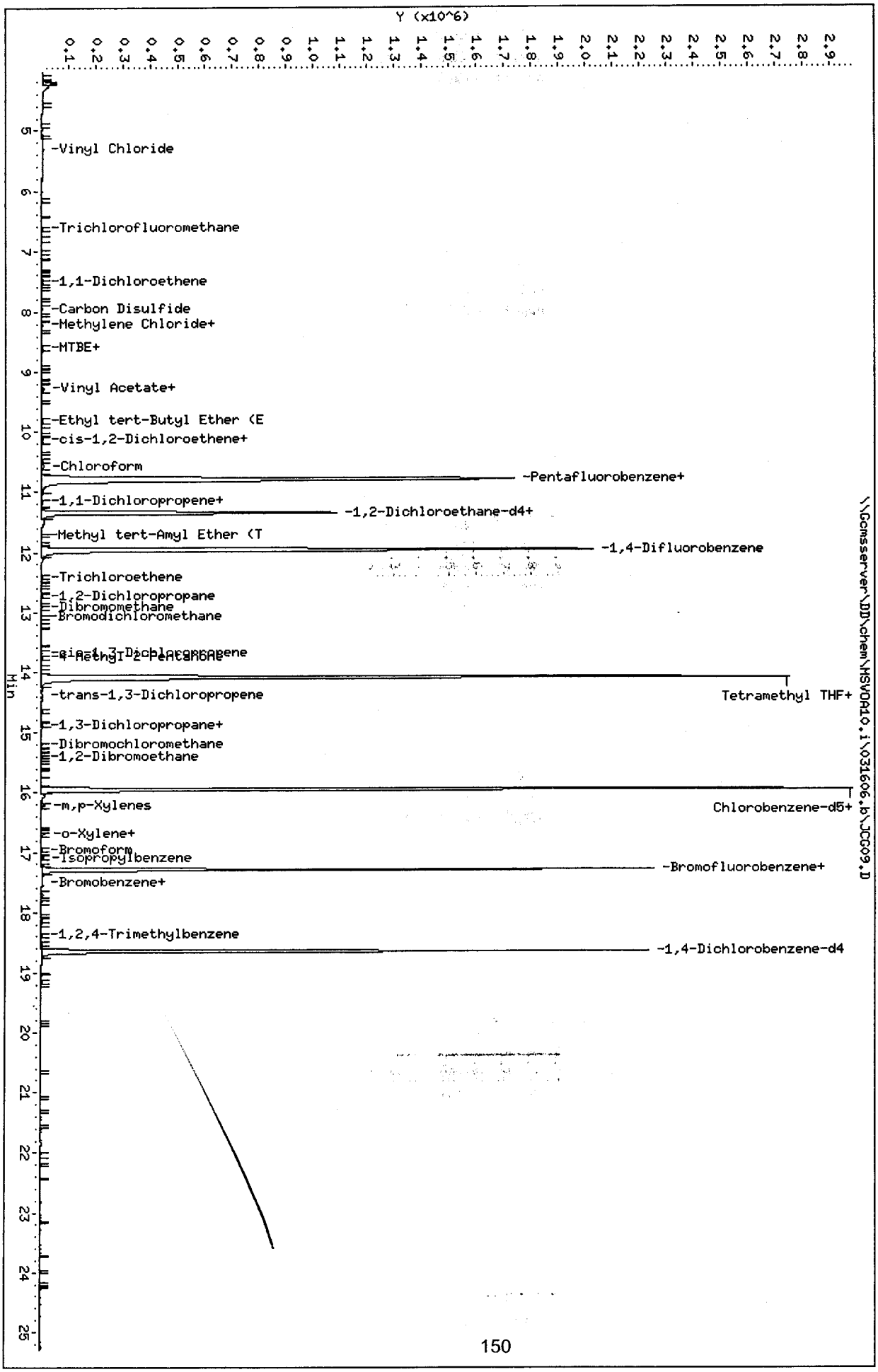
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	3 Vinyl Chloride	62	5.310	5.306	(0.493)	5963	0.50000	0.5070
	6 Trichlorofluoromethane	101	6.639	6.635	(0.616)	5796	0.50000	0.5356
	10 1,1-Dichloroethene	96	7.495	7.502	(0.696)	1682	0.25000	0.2382
	12 Carbon Disulfide	76	7.948	7.954	(0.738)	8532	0.25000	0.2632
	13 Methylene Chloride	84	8.204	8.210	(0.762)	4324	0.25000	0.3932
	14 tert-Butyl Alcohol (TBA)	59	8.224	8.220	(0.763)	1477	2.50000	1.6952
	15 MTBE	73	8.598	8.603	(0.798)	7006	0.25000	0.2586
	16 trans-1,2-Dichloroethene	96	8.647	8.653	(0.803)	2557	0.25000	0.2863
	18 Vinyl Acetate	43	9.268	9.244	(0.860)	10044	0.25000	0.8582
	19 1,1-Dichloroethane	63	9.268	9.274	(0.860)	4203	0.25000	0.2578
	20 Isopropyl Ether (DIPE)	45	9.287	9.284	(0.862)	8995	0.25000	0.2488
	21 Ethyl tert-Butyl Ether (ETBE)	59	9.819	9.825	(0.911)	6955	0.25000	0.2543
	23 cis-1,2-Dichloroethene	96	10.124	10.120	(0.940)	2397	0.25000	0.2391
	24 2,2-Dichloropropane	77	10.144	10.160	(0.942)	2701	0.25000	0.2697
	26 Chloroform	83	10.547	10.554	(0.979)	3742	0.25000	0.2451
*	28 Pentafluorobenzene	168	10.774	10.780	(1.000)	1230724	50.0000	
$	29 Dibromofluoromethane	113	10.794	10.800	(1.002)	883773	50.0000	49.6577
	30 1,1,1-Trichloroethane	97	10.922	10.938	(1.014)	2313	0.25000	0.2330
	31 1,1-Dichloropropene	75	11.158	11.164	(0.933)	2722	0.25000	0.2550
	32 Carbon Tetrachloride	117	11.197	11.213	(0.937)	1727	0.25000	0.2361
$	33 1,2-Dichloroethane-d4	65	11.345	11.341	(0.949)	940538	50.0000	49.7283
	34 1,2-Dichloroethane	62	11.453	11.459	(0.958)	2745	0.25000	0.2350

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG09.D
Report Date: 17-Mar-2006 12:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	35 Benzene	78	11.493	11.499	(0.961)	10060	0.25000	0.2901
	36 Methyl tert-Amyl Ether (TAME)	73	11.542	11.548	(0.965)	6713	0.25000	0.2567
*	37 1,4-Difluorobenzene	114	11.955	11.962	(1.000)	2512239	50.0000	
	38 Trichloroethene	95	12.398	12.414	(1.037)	2260	0.25000	0.2591
	40 1,2-Dichloropropane	63	12.723	12.739	(1.064)	2358	0.25000	0.2266
	41 Dibromomethane	93	12.910	12.907	(1.080)	1016	0.25000	0.1512
	42 Bromodichloromethane	83	13.078	13.074	(1.094)	2532	0.25000	0.2210
	44 cis-1,3-Dichloropropene	75	13.678	13.675	(1.144)	3211	0.25000	0.2132
	45 Tetramethyl THF	43	14.092	13.763	(1.179)	14307	0.25000	0.7107
	46 4-Methyl-2-Pentanone	43	13.826	13.812	(1.156)	2358	0.25000	0.2133
$	47 Toluene-d8	98	14.082	14.088	(1.178)	2664595	50.0000	49.7858
	48 Toluene	92	14.180	14.177	(1.186)	5271	0.25000	0.2663
	49 trans-1,3-Dichloropropene	75	14.387	14.383	(1.203)	3058	0.25000	0.2389
	51 1,3-Dichloropropane	76	14.879	14.876	(0.933)	3446	0.25000	0.2311
	53 Tetrachloroethene	166	14.929	14.925	(0.936)	1314	0.25000	0.2167
	54 Dibromochloromethane	129	15.204	15.201	(0.954)	1423	0.25000	0.1661
	55 1,2-Dibromoethane	107	15.401	15.388	(1.288)	2034	0.25000	0.2141
*	56 Chlorobenzene-d5	117	15.943	15.939	(1.000)	2190262	50.0000	
	57 Chlorobenzene	112	15.982	15.978	(1.002)	5734	0.25000	0.2560
	58 1,1,1,2-Tetrachloroethane	131	16.041	16.047	(1.006)	1523	0.25000	0.2139
	59 Ethylbenzene	91	16.071	16.067	(1.008)	8884	0.25000	0.2492
	60 m,p-Xylenes	106	16.209	16.195	(1.017)	5874	0.50000	0.4761
	61 o-Xylene	106	16.681	16.687	(1.046)	2880	0.25000	0.2317
	62 Styrene	104	16.691	16.687	(1.047)	4988	0.25000	0.2346
	63 Bromoform	173	16.957	16.953	(1.064)	1809	0.25000	0.3224
	64 Isopropylbenzene	105	17.085	17.081	(0.917)	7177	0.25000	0.2650
$	66 Bromofluorobenzene	95	17.292	17.288	(0.928)	1068934	50.0000	54.1354
	67 1,1,2,2-Tetrachloroethane	83	17.380	17.376	(0.932)	3009	0.25000	0.2586
	68 1,2,3-Trichloropropane	75	17.469	17.465	(0.937)	2039	0.25000	0.2024
	69 Bromobenzene	156	17.508	17.504	(0.939)	1882	0.25000	0.2720
	73 4-Chlorotoluene	91	17.557	17.810	(0.942)	7916	0.25000	0.3921
	75 1,2,4-Trimethylbenzene	105	18.374	18.174	(0.986)	6314	0.25000	0.4202
*	79 1,4-Dichlorobenzene-d4	152	18.640	18.646	(1.000)	696885	50.0000	

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG09.D
Date : 16-MAR-2006 14:04
Client ID: DYNA P&T
Sample Info: ICAL,S2783,0.001/1000,S2844,0.0005/1000
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA10.i\031606.b\JCG10.D
Report Date: 17-Mar-2006 16:19

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA10.i\031606.b\JCG10.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-MAR-2006 14:39 MS Autotune Date: 27-JUL-1998 20:19
Operator : VOC Inst ID: MSVOA10.i
Smp Info : ICAL,S2783,0.002/1000,S2844,0.001/1000
Misc Info : S2410,0.001/1000,0.5/1PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA10.i\031606.b\826GOX10.m
Meth Date : 17-Mar-2006 16:08 target Quant Type: ISTD
Cal Date : 16-MAR-2006 14:39 Cal File: JCG10.D
Als bottle: 10 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.646	4.646	(0.431)	7366	1.00000	0.9713
2 Chloromethane	50	5.118	5.119	(0.475)	12441	1.00000	0.9248
3 Vinyl Chloride	62	5.315	5.306	(0.494)	11323	1.00000	0.9591
4 Bromomethane	94	5.985	5.985	(0.556)	4061	1.00000	1.7680
5 Chloroethane	64	6.172	6.163	(0.573)	6953	1.00000	0.9432
6 Trichlorofluoromethane	101	6.635	6.635	(0.616)	10326	1.00000	0.9508
7 Ethanol	45	6.792	6.783	(0.631)	6078	50.0000	43.5135
8 Freon 113	101	7.462	7.472	(0.693)	3258	0.50000	
10 1,1-Dichloroethene	96	7.501	7.502	(0.696)	3802	0.50000	0.5365
11 Isopropanol	45	7.619	7.600	(0.707)	2523	5.00000	4.0004
12 Carbon Disulfide	76	7.944	7.954	(0.738)	16856	0.50000	0.5180
13 Methylene Chloride	84	8.220	8.210	(0.763)	6728	0.50000	0.6095
14 tert-Butyl Alcohol (TBA)	59	8.229	8.220	(0.764)	3339	5.00000	3.8183
15 MTBE	73	8.604	8.604	(0.799)	12630	0.50000	0.4645
16 trans-1,2-Dichloroethene	96	8.653	8.653	(0.803)	4637	0.50000	0.5174
18 Vinyl Acetate	43	9.273	9.244	(0.861)	18080	0.50000	1.1755

Data File: \\GCMSSERVER\DD\chem\MSVOA10.i\031606.b\JCG10.D
Report Date: 17-Mar-2006 16:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	19 1,1-Dichloroethane	63	9.273	9.274	(0.861)	7890	0.50000	0.4823
	20 Isopropyl Ether (DIPE)	45	9.283	9.284	(0.862)	17387	0.50000	0.4792
	21 Ethyl tert-Butyl Ether (ETBE)	59	9.824	9.825	(0.912)	12861	0.50000	0.4685
	22 2-Butanone	43	10.090	10.052	(0.937)	2570	0.50000	0.4992
	23 cis-1,2-Dichloroethene	96	10.130	10.120	(0.941)	4731	0.50000	0.4702
	24 2,2-Dichloropropane	77	10.149	10.160	(0.942)	5376	0.50000	0.5348
	25 Bromochloromethane	128	10.504	10.495	(0.975)	1983	0.50000	0.4018
	26 Chloroform	83	10.553	10.554	(0.980)	7171	0.50000	0.4680
	27 Tetrahydrofuran	42	10.573	10.563	(0.982)	15270	5.00000	5.1185
*	28 Pentafluorobenzene	168	10.770	10.780	(1.000)	1235269	50.0000	
$	29 Dibromofluoromethane	113	10.799	10.800	(1.003)	888045	50.0000	49.7142
	30 1,1,1-Trichloroethane	97	10.927	10.938	(1.015)	4772	0.50000	0.4790
	31 1,1-Dichloropropene	75	11.163	11.164	(0.934)	5752	0.50000	0.5370
	32 Carbon Tetrachloride	117	11.193	11.213	(0.937)	3559	0.50000	0.4848
$	33 1,2-Dichloroethane-d4	65	11.341	11.341	(0.949)	951614	50.0000	50.1334
	34 1,2-Dichloroethane	62	11.459	11.459	(0.959)	5599	0.50000	0.4777
	35 Benzene	78	11.488	11.499	(0.961)	17453	0.50000	0.5015
	36 Methyl tert-Amyl Ether (TAME)	73	11.547	11.548	(0.966)	12555	0.50000	0.4785
*	37 1,4-Difluorobenzene	114	11.951	11.962	(1.000)	2521286	50.0000	
	38 Trichloroethene	95	12.404	12.414	(1.038)	4585	0.50000	0.5238
$	39 Trifluorotoluene	146	12.719	12.720	(1.064)	4164	0.50000	0.4778
	40 1,2-Dichloropropane	63	12.729	12.739	(1.065)	4868	0.50000	0.4662
	41 Dibromomethane	93	12.906	12.907	(1.080)	2923	0.50000	0.4336
	42 Bromodichloromethane	83	13.073	13.074	(1.094)	5233	0.50000	0.4552
	44 cis-1,3-Dichloropropene	75	13.684	13.675	(1.145)	6832	0.50000	0.4520
	45 Tetramethyl THF	43	13.763	13.763	(1.152)	8993	0.50000	0.4451
	46 4-Methyl-2-Pentanone	43	13.822	13.812	(1.157)	4656	0.50000	0.4196
$	47 Toluene-d8	98	14.087	14.088	(1.179)	2658550	50.0000	49.4946
	48 Toluene	92	14.176	14.177	(1.186)	10052	0.50000	0.5061
	49 trans-1,3-Dichloropropene	75	14.383	14.383	(1.203)	5462	0.50000	0.4251
	50 1,1,2-Trichloroethane	85	14.639	14.649	(1.225)	2294	0.50000	0.4667
	51 1,3-Dichloropropane	76	14.875	14.876	(0.933)	6605	0.50000	0.4442
	53 Tetrachloroethene	166	14.924	14.925	(0.936)	2814	0.50000	0.4654
	54 Dibromochloromethane	129	15.210	15.201	(0.954)	3953	0.50000	0.4629
	55 1,2-Dibromoethane	107	15.397	15.388	(1.288)	4345	0.50000	0.4557
*	56 Chlorobenzene-d5	117	15.938	15.939	(1.000)	2184281	50.0000	
	57 Chlorobenzene	112	15.978	15.978	(1.002)	10798	0.50000	0.4835
	58 1,1,1,2-Tetrachloroethane	131	16.047	16.047	(1.007)	3092	0.50000	0.4356
	59 Ethylbenzene	91	16.066	16.067	(1.008)	17586	0.50000	0.4947
	60 m,p-Xylenes	106	16.194	16.195	(1.016)	11387	1.00000	0.9254
	61 o-Xylene	106	16.687	16.687	(1.047)	5829	0.50000	0.4704
	62 Styrene	104	16.696	16.687	(1.048)	9219	0.50000	0.4348
	63 Bromoform	173	16.952	16.953	(1.064)	3126	0.50000	0.5587
	64 Isopropylbenzene	105	17.090	17.081	(0.917)	14833	0.50000	0.5268
	65 Cyclohexanone_	55	17.228	17.219	(0.924)	5706	0.50000	0.4239
$	66 Bromofluorobenzene	95	17.287	17.288	(0.928)	1065532	50.0000	51.9056
	67 1,1,2,2-Tetrachloroethane	83	17.386	17.376	(0.933)	5658	0.50000	0.4678

Data File: \\GCMSSERVER\DD\chem\MSVOA10.i\031606.b\JCG10.D
Report Date: 17-Mar-2006 16:19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
68 1,2,3-Trichloropropane	75	17.464	17.465	(0.937)	6549	0.50000	0.6253
69 Bromobenzene	156	17.514	17.504	(0.940)	3365	0.50000	0.4679
70 Propylbenzene	91	17.553	17.544	(0.942)	16281	0.50000	0.5028
71 2-Chlorotoluene	91	17.701	17.701	(0.950)	11969	0.50000	0.5047
72 1,3,5-Trimethylbenzene	105	17.720	17.721	(0.951)	7821	0.50000	0.4522
73 4-Chlorotoluene	91	17.819	17.810	(0.956)	10128	0.50000	0.4825
74 tert-Butylbenzene	119	18.124	18.125	(0.973)	8481	0.50000	0.4802
75 1,2,4-Trimethylbenzene	105	18.173	18.174	(0.975)	6868	0.50000	0.4396
76 sec-Butylbenzene	105	18.380	18.371	(0.986)	12230	0.50000	0.5077
77 para-Isopropyl Toluene	119	18.518	18.518	(0.994)	6922	0.50000	0.4438
78 1,3-Dichlorobenzene	146	18.577	18.578	(0.997)	5589	0.50000	0.4586
* 79 1,4-Dichlorobenzene-d4	152	18.636	18.646	(1.000)	724509	50.0000	
80 1,4-Dichlorobenzene	146	18.666	18.676	(1.002)	5989	0.50000	0.5015
81 n-Butylbenzene	91	19.020	19.011	(1.021)	5316	0.50000	0.4226
82 1,2-Dichlorobenzene	146	19.158	19.149	(1.028)	5168	0.50000	0.4456
83 1,2-Dibromo-3-Chloropropane	75	20.152	20.123	(1.081)	382	0.50000	
84 1,2,4-Trichlorobenzene	180	21.393	21.374	(1.148)	696	0.50000	0.8406
85 Hexachlorobutadiene	225	21.580	21.590	(1.158)	152	0.50000	(M)
86 Naphthalene	128	21.846	21.817	(1.172)	4090	0.50000	0.4711
87 1,2,3-Trichlorobenzene	180	22.259	22.230	(1.194)	342	0.50000	1.0665

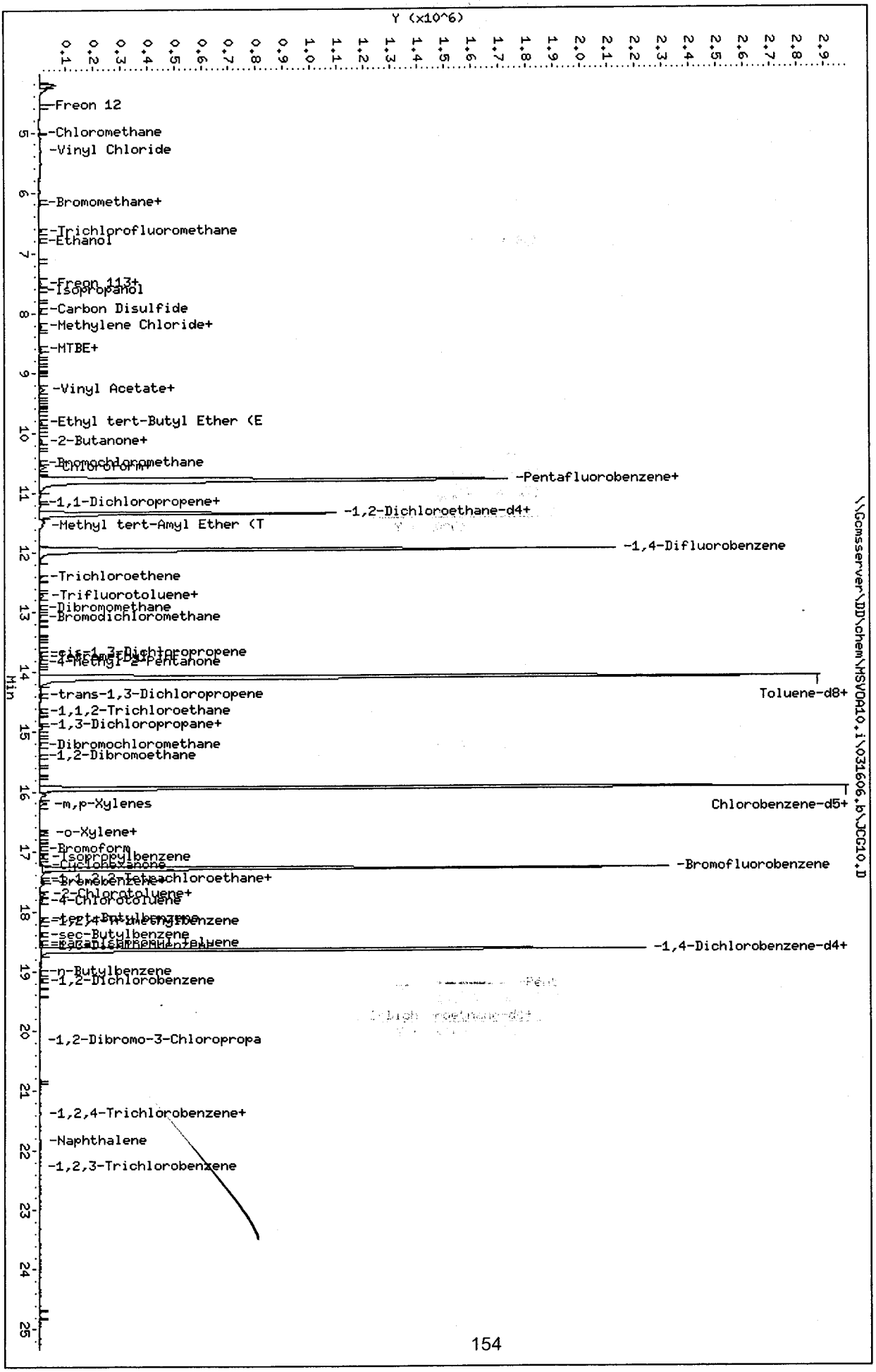
3/17/06

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCC10.D
Date : 16-MAR-2006 14:39
Client ID: DYNA P&T
Sample Info: ICAL,S2783,0.002/1000,S2844,0.001/1000
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG11.D
Report Date: 17-Mar-2006 12:38

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG11.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-MAR-2006 15:14 MS Autotune Date: 27-JUL-1998 20:19
Operator : VOC Inst ID: MSVOA10.i
Smp Info : ICAL,S2783,0.002/500,S2844,0.002/500
Misc Info : S2410,0.001/500,2PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\826GOX10.m
Meth Date : 17-Mar-2006 12:29 target Quant Type: ISTD
Cal Date : 16-MAR-2006 15:14 Cal File: JCG11.D
Als bottle: 11 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.645	4.646	(0.431)	12608	2.00000	1.6668
2 Chloromethane	50	5.108	5.119	(0.474)	27535	2.00000	2.0520
3 Vinyl Chloride	62	5.305	5.306	(0.492)	23028	2.00000	1.9556
4 Bromomethane	94	5.994	5.985	(0.556)	7316	2.00000	2.3732
5 Chloroethane	64	6.161	6.163	(0.572)	16051	2.00000	2.1829
6 Trichlorofluoromethane	101	6.624	6.635	(0.615)	20841	2.00000	1.9239
7 Ethanol	45	6.791	6.783	(0.630)	26521	200.000	190.3500
8 Freon 113	101	7.461	7.472	(0.692)	8631	2.00000	0.5937
9 Acetone	43	7.500	7.482	(0.696)	6940	2.00000	2.0578
10 1,1-Dichloroethene	96	7.500	7.502	(0.696)	12767	2.00000	1.8064
11 Isopropanol	45	7.618	7.600	(0.707)	10632	20.0000	16.9006
12 Carbon Disulfide	76	7.943	7.954	(0.737)	63077	2.00000	1.9436
13 Methylene Chloride	84	8.209	8.210	(0.762)	23472	2.00000	2.1320
14 tert-Butyl Alcohol (TBA)	59	8.219	8.220	(0.763)	16386	20.0000	18.7860
15 MTBE	73	8.603	8.603	(0.798)	54578	2.00000	2.0125
16 trans-1,2-Dichloroethene	96	8.652	8.653	(0.803)	18293	2.00000	2.0464
18 Vinyl Acetate	43	9.253	9.244	(0.858)	52447	2.00000	2.5441(M)
19 1,1-Dichloroethane	63	9.272	9.274	(0.860)	35422	2.00000	2.1708
20 Isopropyl Ether (DIPE)	45	9.282	9.284	(0.861)	76138	2.00000	2.1038
21 Ethyl tert-Butyl Ether (ETBE)	59	9.814	9.825	(0.910)	57971	2.00000	2.1173
22 2-Butanone	43	10.070	10.052	(0.934)	9526	2.00000	1.8552
23 cis-1,2-Dichloroethene	96	10.129	10.120	(0.940)	22413	2.00000	2.2335

7/17/06

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG11.D
Report Date: 17-Mar-2006 12:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	24 2,2-Dichloropropane	77	10.149	10.160	(0.942)	20948	2.00000	2.0895
	25 Bromochloromethane	128	10.493	10.495	(0.974)	10438	2.00000	2.1206
	26 Chloroform	83	10.562	10.554	(0.980)	32558	2.00000	2.1305
	27 Tetrahydrofuran	42	10.572	10.563	(0.981)	60020	20.0000	20.1700
*	28 Pentafluorobenzene	168	10.779	10.780	(1.000)	1232146	50.0000	
$	29 Dibromofluoromethane	113	10.798	10.800	(1.002)	894440	50.0000	50.1991
	30 1,1,1-Trichloroethane	97	10.926	10.938	(1.014)	20168	2.00000	2.0296
	31 1,1-Dichloropropene	75	11.163	11.164	(0.934)	20594	2.00000	1.9210
	32 Carbon Tetrachloride	117	11.202	11.213	(0.937)	13056	2.00000	1.7770
$	33 1,2-Dichloroethane-d4	65	11.340	11.341	(0.949)	956769	50.0000	50.3582
	34 1,2-Dichloroethane	62	11.468	11.459	(0.960)	24290	2.00000	2.0705
	35 Benzene	78	11.488	11.499	(0.961)	73273	2.00000	2.1037
	36 Methyl tert-Amyl Ether (TAME)	73	11.547	11.548	(0.966)	54151	2.00000	2.0619
*	37 1,4-Difluorobenzene	114	11.950	11.962	(1.000)	2523626	50.0000	
	38 Trichloroethene	95	12.413	12.414	(1.039)	17701	2.00000	2.0205
$	39 Trifluorotoluene	146	12.718	12.720	(1.064)	15571	2.00000	1.7853
	40 1,2-Dichloropropane	63	12.728	12.739	(1.065)	22310	2.00000	2.1347
	41 Dibromomethane	93	12.905	12.907	(1.080)	13078	2.00000	1.9386
	42 Bromodichloromethane	83	13.073	13.074	(1.094)	22994	2.00000	1.9986
	44 cis-1,3-Dichloropropene	75	13.683	13.675	(1.145)	30845	2.00000	2.0391
	45 Tetramethyl THF	43	13.752	13.763	(1.151)	40270	2.00000	1.9915
	46 4-Methyl-2-Pentanone	43	13.811	13.812	(1.156)	19666	2.00000	1.7710
$	47 Toluene-d8	98	14.087	14.088	(1.179)	2681784	50.0000	49.8809
	48 Toluene	92	14.175	14.177	(1.186)	42130	2.00000	2.1194
	49 trans-1,3-Dichloropropene	75	14.382	14.383	(1.203)	24891	2.00000	1.9358
	50 1,1,2-Trichloroethane	85	14.648	14.649	(1.226)	9826	2.00000	1.9972
	51 1,3-Dichloropropane	76	14.884	14.876	(0.934)	30660	2.00000	2.0473
	52 2-Hexanone	43	14.904	14.886	(0.935)	11030	2.00000	1.6221 (M)
	53 Tetrachloroethene	166	14.924	14.925	(0.936)	12143	2.00000	1.9940
	54 Dibromochloromethane	129	15.199	15.201	(0.954)	16458	2.00000	1.9136
	55 1,2-Dibromoethane	107	15.386	15.388	(1.288)	18816	2.00000	1.9719
*	56 Chlorobenzene-d5	117	15.938	15.939	(1.000)	2199950	50.0000	
	57 Chlorobenzene	112	15.977	15.978	(1.002)	47355	2.00000	2.1053
	58 1,1,1,2-Tetrachloroethane	131	16.046	16.047	(1.007)	14536	2.00000	2.0334
	59 Ethylbenzene	91	16.066	16.067	(1.008)	76106	2.00000	2.1256
	60 m,p-Xylenes	106	16.204	16.195	(1.017)	53790	4.00000	4.3406
	61 o-Xylene	106	16.686	16.687	(1.047)	26565	2.00000	2.1286
	62 Styrene	104	16.696	16.687	(1.048)	44084	2.00000	2.0644
	63 Bromoform	173	16.952	16.953	(1.064)	11049	2.00000	1.9608
	64 Isopropylbenzene	105	17.080	17.081	(0.917)	61172	2.00000	2.1896
	65 Cyclohexanone_	55	17.227	17.219	(0.924)	25436	2.00000	1.9047
$	66 Bromofluorobenzene	95	17.286	17.288	(0.928)	1067350	50.0000	52.3994
	67 1,1,2,2-Tetrachloroethane	83	17.375	17.376	(0.932)	25162	2.00000	2.0967
	68 1,2,3-Trichloropropane	75	17.464	17.465	(0.937)	21377	2.00000	2.0572
	69 Bromobenzene	156	17.503	17.504	(0.939)	15534	2.00000	2.1770
	70 Propylbenzene	91	17.552	17.544	(0.942)	68689	2.00000	2.1381
	71 2-Chlorotoluene	91	17.700	17.701	(0.950)	53628	2.00000	2.2793
	72 1,3,5-Trimethylbenzene	105	17.720	17.721	(0.951)	35525	2.00000	2.0700
	73 4-Chlorotoluene	91	17.818	17.810	(0.956)	46781	2.00000	2.2464
	74 tert-Butylbenzene	119	18.123	18.125	(0.973)	37123	2.00000	2.1185 (M)
	75 1,2,4-Trimethylbenzene	105	18.173	18.174	(0.975)	31107	2.00000	2.0068
	76 sec-Butylbenzene	105	18.369	18.371	(0.986)	46445	2.00000	1.9432
	77 para-Isopropyl Toluene	119	18.517	18.518	(0.994)	30893	2.00000	1.9965
	78 1,3-Dichlorobenzene	146	18.576	18.578	(0.997)	28295	2.00000	2.3399

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG11.D
Report Date: 17-Mar-2006 12:38

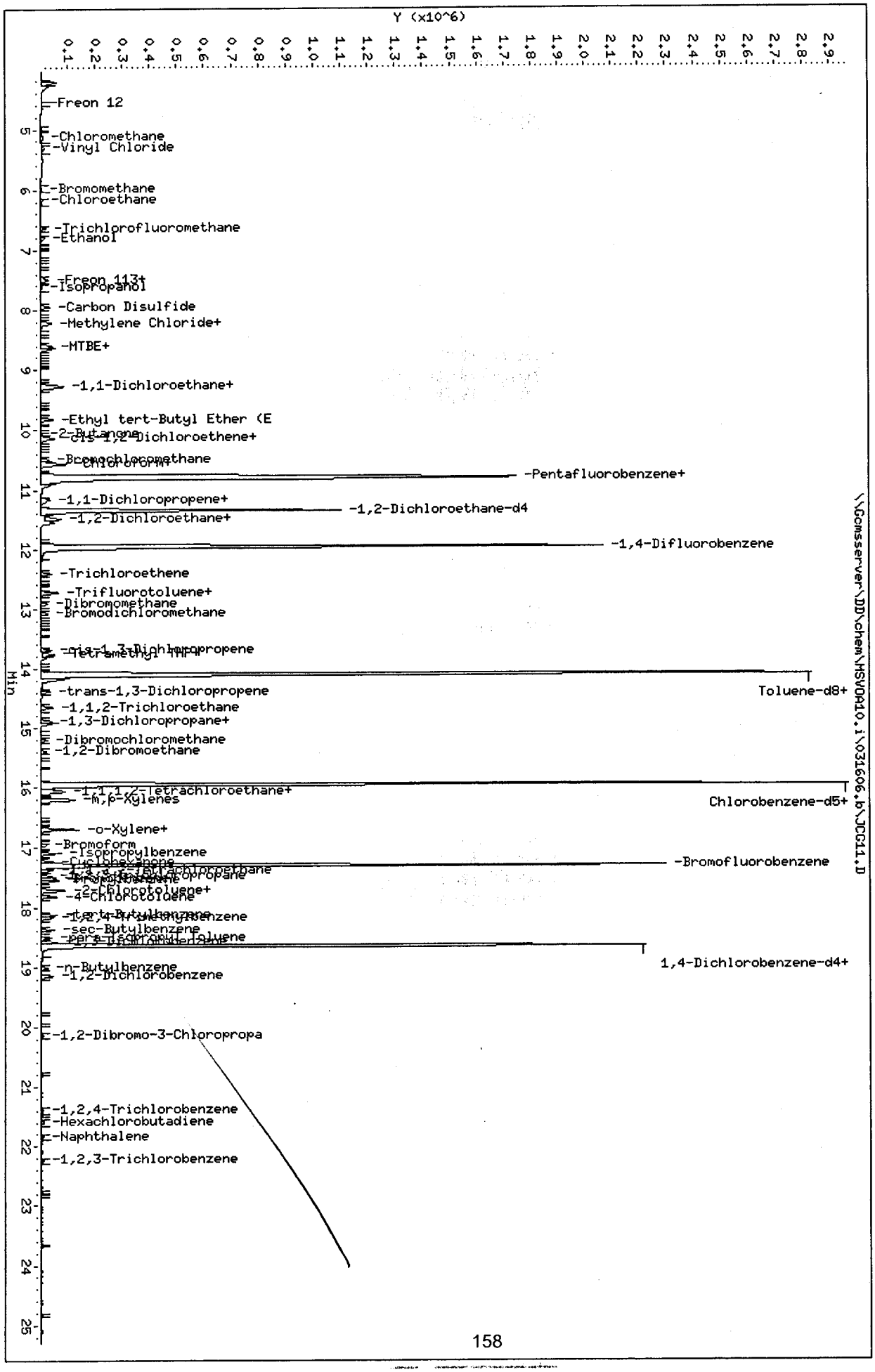
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 79 1,4-Dichlorobenzene-d4	152	18.635	18.646	(1.000)	718906	50.0000	
80 1,4-Dichlorobenzene	146	18.675	18.676	(1.002)	24900	2.00000	2.1015
81 n-Butylbenzene	91	19.009	19.011	(1.020)	21782	2.00000	1.7452
82 1,2-Dichlorobenzene	146	19.147	19.149	(1.027)	24142	2.00000	2.0978
83 1,2-Dibromo-3-Chloropropane	75	20.142	20.123	(1.081)	3171	2.00000	0.9520
84 1,2,4-Trichlorobenzene	180	21.392	21.374	(1.148)	4386	2.00000	2.0206
85 Hexachlorobutadiene	225	21.579	21.590	(1.158)	2703	2.00000	1.0043
86 Naphthalene	128	21.825	21.817	(1.171)	15545	2.00000	1.8048
87 1,2,3-Trichlorobenzene	180	22.239	22.230	(1.193)	3878	2.00000	2.1993

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG11.D
Date : 16-MAR-2006 15:14
Client ID: DYNA P&T
Sample Info: ICAL,S2783,0.002/500,S2844,0.002/500
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG12.D
Report Date: 17-Mar-2006 12:38

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG12.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-MAR-2006 15:49 MS Autotune Date: 27-JUL-1998 20:19
Operator : VOC Inst ID: MSVOA10.i
Smp Info : ICAL,S2783,0.005/500,S2844,0.005/500
Misc Info : S2410,0.0025/500,5PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\826GOX10.m
Meth Date : 17-Mar-2006 12:29 target Quant Type: ISTD
Cal Date : 16-MAR-2006 15:49 Cal File: JCG12.D
Als bottle: 12 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.658	4.646	(0.432)	37733	5.00000	5.0575
2 Chloromethane	50	5.110	5.119	(0.474)	67120	5.00000	5.0713
3 Vinyl Chloride	62	5.307	5.306	(0.493)	59117	5.00000	5.0900
4 Bromomethane	94	5.987	5.985	(0.556)	18018	5.00000	4.3955
5 Chloroethane	64	6.164	6.163	(0.572)	36719	5.00000	5.0628
6 Trichlorofluoromethane	101	6.627	6.635	(0.615)	54121	5.00000	5.0652
7 Ethanol	45	6.784	6.783	(0.630)	73568	500.000	535.3222
8 Freon 113	101	7.463	7.472	(0.693)	30505	5.00000	4.3879
9 Acetone	43	7.493	7.482	(0.696)	16569	5.00000	4.9810
10 1,1-Dichloroethene	96	7.493	7.502	(0.696)	34356	5.00000	4.9282
11 Isopropanol	45	7.611	7.600	(0.707)	32729	50.0000	52.7455
12 Carbon Disulfide	76	7.946	7.954	(0.738)	159892	5.00000	4.9950
13 Methylene Chloride	84	8.212	8.210	(0.762)	53079	5.00000	4.8879
14 tert-Butyl Alcohol (TBA)	59	8.222	8.220	(0.763)	45162	50.0000	52.4925
15 MTBE	73	8.596	8.603	(0.798)	135828	5.00000	5.0779
16 trans-1,2-Dichloroethene	96	8.655	8.653	(0.803)	45022	5.00000	5.1062
18 Vinyl Acetate	43	9.245	9.244	(0.858)	125330	5.00000	5.5114 (M)
19 1,1-Dichloroethane	63	9.265	9.274	(0.860)	82166	5.00000	5.1050
20 Isopropyl Ether (DIPE)	45	9.275	9.284	(0.861)	185098	5.00000	5.1854
21 Ethyl tert-Butyl Ether (ETBE)	59	9.816	9.825	(0.911)	138650	5.00000	5.1341
22 2-Butanone	43	10.063	10.052	(0.934)	24560	5.00000	4.8494
23 cis-1,2-Dichloroethene	96	10.122	10.120	(0.940)	49957	5.00000	5.0472

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG12.D
Report Date: 17-Mar-2006 12:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	24 2,2-Dichloropropane	77	10.151	10.160	(0.942)	49497	5.00000	5.0055
	25 Bromochloromethane	128	10.496	10.495	(0.974)	24584	5.00000	5.0635
	26 Chloroform	83	10.555	10.554	(0.980)	78481	5.00000	5.2067
	27 Tetrahydrofuran	42	10.565	10.563	(0.981)	146605	50.0000	49.9485
*	28 Pentafluorobenzene	168	10.771	10.780	(1.000)	1215343	50.0000	
$	29 Dibromofluoromethane	113	10.801	10.800	(1.003)	886359	50.0000	50.4333
	30 1,1,1-Trichloroethane	97	10.929	10.938	(1.015)	48688	5.00000	4.9674
	31 1,1-Dichloropropene	75	11.155	11.164	(0.933)	52631	5.00000	4.9764
	32 Carbon Tetrachloride	117	11.195	11.213	(0.937)	35799	5.00000	4.9387
$	33 1,2-Dichloroethane-d4	65	11.342	11.341	(0.949)	939679	50.0000	50.1318
	34 1,2-Dichloroethane	62	11.461	11.459	(0.959)	59868	5.00000	5.1728
	35 Benzene	78	11.490	11.499	(0.961)	178318	5.00000	5.1894
	36 Methyl tert-Amyl Ether (TAME)	73	11.549	11.548	(0.966)	131645	5.00000	5.0809
*	37 1,4-Difluorobenzene	114	11.953	11.962	(1.000)	2489745	50.0000	
	38 Trichloroethene	95	12.406	12.414	(1.038)	44809	5.00000	5.1845
$	39 Trifluorotoluene	146	12.721	12.720	(1.064)	42425	5.00000	4.9306
	40 1,2-Dichloropropane	63	12.731	12.739	(1.065)	53023	5.00000	5.1425
	41 Dibromomethane	93	12.908	12.907	(1.080)	33971	5.00000	5.1042
	42 Bromodichloromethane	83	13.075	13.074	(1.094)	58145	5.00000	5.1228
	44 cis-1,3-Dichloropropene	75	13.676	13.675	(1.144)	75091	5.00000	5.0318
	45 Tetramethyl THF	43	13.755	13.763	(1.151)	105072	5.00000	5.2671
	46 4-Methyl-2-Pentanone	43	13.814	13.812	(1.156)	53428	5.00000	4.8769
$	47 Toluene-d8	98	14.079	14.088	(1.178)	2679721	50.0000	50.5208
	48 Toluene	92	14.178	14.177	(1.186)	98847	5.00000	5.0403
	49 trans-1,3-Dichloropropene	75	14.375	14.383	(1.203)	63150	5.00000	4.9781
	50 1,1,2-Trichloroethane	85	14.651	14.649	(1.226)	24876	5.00000	5.1250
	51 1,3-Dichloropropane	76	14.877	14.876	(0.933)	77290	5.00000	5.2086
	52 2-Hexanone	43	14.897	14.886	(0.935)	30945	5.00000	4.5931
	53 Tetrachloroethene	166	14.926	14.925	(0.936)	30222	5.00000	5.0088
	54 Dibromochloromethane	129	15.202	15.201	(0.954)	41371	5.00000	4.8547
	55 1,2-Dibromoethane	107	15.389	15.388	(1.287)	47510	5.00000	5.0469
*	56 Chlorobenzene-d5	117	15.940	15.939	(1.000)	2179817	50.0000	
	57 Chlorobenzene	112	15.980	15.978	(1.002)	115651	5.00000	5.1890
	58 1,1,1,2-Tetrachloroethane	131	16.039	16.047	(1.006)	36340	5.00000	5.1305
	59 Ethylbenzene	91	16.068	16.067	(1.008)	180458	5.00000	5.0868
	60 m,p-Xylenes	106	16.196	16.195	(1.016)	122066	10.0000	9.9412
	61 o-Xylene	106	16.679	16.687	(1.046)	64333	5.00000	5.2026
	62 Styrene	104	16.688	16.687	(1.047)	104336	5.00000	4.9311
	63 Bromoform	173	16.954	16.953	(1.064)	25721	5.00000	4.6069
	64 Isopropylbenzene	105	17.082	17.081	(0.917)	148298	5.00000	5.3496
	65 Cyclohexanone_	55	17.220	17.219	(0.924)	74793	5.00000	5.6445
$	66 Bromofluorobenzene	95	17.289	17.288	(0.928)	1065372	50.0000	52.7099
	67 1,1,2,2-Tetrachloroethane	83	17.378	17.376	(0.932)	65297	5.00000	5.4837
	68 1,2,3-Trichloropropane	75	17.466	17.465	(0.937)	56669	5.00000	5.4961
	69 Bromobenzene	156	17.506	17.504	(0.939)	38478	5.00000	5.4347
	70 Propylbenzene	91	17.545	17.544	(0.941)	164102	5.00000	5.1479
	71 2-Chlorotoluene	91	17.703	17.701	(0.950)	123244	5.00000	5.2791
	72 1,3,5-Trimethylbenzene	105	17.722	17.721	(0.951)	86462	5.00000	5.0773
	73 4-Chlorotoluene	91	17.811	17.810	(0.956)	107065	5.00000	5.1812
	74 tert-Butylbenzene	119	18.126	18.125	(0.973)	88598	5.00000	5.0955(M)
	75 1,2,4-Trimethylbenzene	105	18.175	18.174	(0.975)	75385	5.00000	4.9012
	76 sec-Butylbenzene	105	18.372	18.371	(0.986)	119610	5.00000	5.0435
	77 para-Isopropyl Toluene	119	18.510	18.518	(0.993)	72583	5.00000	4.7273
	78 1,3-Dichlorobenzene	146	18.579	18.578	(0.997)	61659	5.00000	5.1388

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG12.D
Report Date: 17-Mar-2006 12:38

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 79 1,4-Dichlorobenzene-d4	152	18.638	18.646	(1.000)	713347	50.0000	
80 1,4-Dichlorobenzene	146	18.667	18.676	(1.002)	61165	5.00000	5.2024
81 n-Butylbenzene	91	19.012	19.011	(1.020)	57702	5.00000	4.6593
82 1,2-Dichlorobenzene	146	19.150	19.149	(1.027)	59863	5.00000	5.2423
83 1,2-Dibromo-3-Chloropropane	75	20.134	20.123	(1.080)	8727	5.00000	4.2406
84 1,2,4-Trichlorobenzene	180	21.375	21.374	(1.147)	12355	5.00000	4.5830
85 Hexachlorobutadiene	225	21.582	21.590	(1.158)	7489	5.00000	4.3255
86 Naphthalene	128	21.818	21.817	(1.171)	35868	5.00000	4.1968
87 1,2,3-Trichlorobenzene	180	22.241	22.230	(1.193)	11200	5.00000	4.5626

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG12.D
Date : 16-MAR-2006 15:49
Client ID: DYNA P&T
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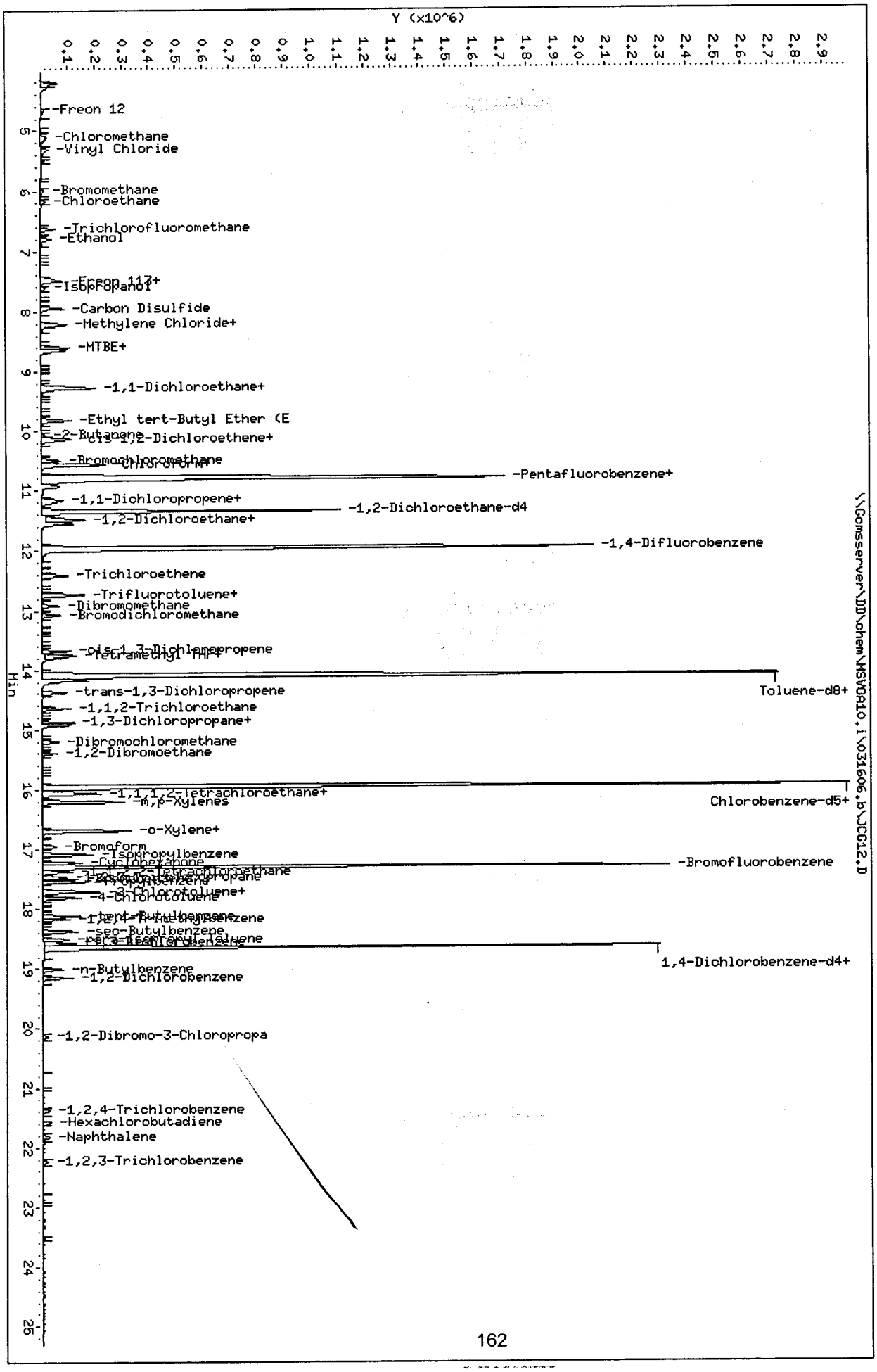
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG13.D
Report Date: 17-Mar-2006 12:38

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG13.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-MAR-2006 16:25 MS Autotune Date: 27-JUL-1998 20:19
Operator : VOC Inst ID: MSVOA10.i
Smp Info : ICAL,S2783,0.002/100,S2844,0.002/100
Misc Info : S2410,0.001/100,10PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\826GOX10.m
Meth Date : 17-Mar-2006 12:29 target Quant Type: ISTD
Cal Date : 16-MAR-2006 16:25 Cal File: JCG13.D
Als bottle: 13 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.646	4.646	(0.431)	66603	10.0000	8.7242
2 Chloromethane	50	5.118	5.119	(0.475)	132825	10.0000	9.8078
3 Vinyl Chloride	62	5.305	5.306	(0.493)	109142	10.0000	9.1837
4 Bromomethane	94	5.985	5.985	(0.556)	44667	10.0000	9.1475
5 Chloroethane	64	6.172	6.163	(0.573)	70628	10.0000	9.5170
6 Trichlorofluoromethane	101	6.635	6.635	(0.616)	97851	10.0000	8.9498
7 Ethanol	45	6.782	6.783	(0.630)	143364	1000.00	1019.4987
8 Freon 113	101	7.462	7.472	(0.693)	65814	10.0000	10.1204
9 Acetone	43	7.491	7.482	(0.696)	36262	10.0000	10.6535
10 1,1-Dichloroethene	96	7.501	7.502	(0.697)	72024	10.0000	10.0969
11 Isopropanol	45	7.599	7.600	(0.706)	67788	100.000	106.7642
12 Carbon Disulfide	76	7.944	7.954	(0.738)	322390	10.0000	9.8427
13 Methylene Chloride	84	8.210	8.210	(0.762)	108463	10.0000	9.7613
14 tert-Butyl Alcohol (TBA)	59	8.220	8.220	(0.763)	93642	100.000	106.3691
15 MTBE	73	8.604	8.603	(0.799)	280325	10.0000	10.2418
16 trans-1,2-Dichloroethene	96	8.653	8.653	(0.803)	89983	10.0000	9.9738
18 Vinyl Acetate	43	9.244	9.244	(0.858)	244650	10.0000	10.0981(M)
19 1,1-Dichloroethane	63	9.273	9.274	(0.861)	168562	10.0000	10.2350
20 Isopropyl Ether (DIPE)	45	9.283	9.284	(0.862)	371672	10.0000	10.1756
21 Ethyl tert-Butyl Ether (ETBE)	59	9.815	9.825	(0.911)	285306	10.0000	10.3246
22 2-Butanone	43	10.061	10.052	(0.934)	51421	10.0000	9.9225
23 cis-1,2-Dichloroethene	96	10.120	10.120	(0.940)	100597	10.0000	9.9326

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG13.D
Report Date: 17-Mar-2006 12:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	24 2,2-Dichloropropane	77	10.149	10.160	(0.942)	101785	10.0000	10.0595
	25 Bromochloromethane	128	10.494	10.495	(0.974)	50654	10.0000	10.1962
	26 Chloroform	83	10.553	10.554	(0.980)	156302	10.0000	10.1341
	27 Tetrahydrofuran	42	10.563	10.563	(0.981)	310179	100.000	103.2778
*	28 Pentafluorobenzene	168	10.770	10.780	(1.000)	1243594	50.0000	
$	29 Dibromofluoromethane	113	10.799	10.800	(1.003)	910145	50.0000	50.6103
	30 1,1,1-Trichloroethane	97	10.927	10.938	(1.015)	100314	10.0000	10.0022
	31 1,1-Dichloropropene	75	11.154	11.164	(0.933)	107450	10.0000	9.9376
	32 Carbon Tetrachloride	117	11.203	11.213	(0.937)	73309	10.0000	9.8924
$	33 1,2-Dichloroethane-d4	65	11.341	11.341	(0.949)	966332	50.0000	50.4265
	34 1,2-Dichloroethane	62	11.459	11.459	(0.959)	118334	10.0000	10.0010
	35 Benzene	78	11.488	11.499	(0.961)	352012	10.0000	10.0204
	36 Methyl tert-Amyl Ether (TAME)	73	11.547	11.548	(0.966)	269753	10.0000	10.1836
*	37 1,4-Difluorobenzene	114	11.951	11.962	(1.000)	2545398	50.0000	
	38 Trichloroethene	95	12.414	12.414	(1.039)	86906	10.0000	9.8354
$	39 Trifluorotoluene	146	12.719	12.720	(1.064)	88593	10.0000	10.0711
	40 1,2-Dichloropropane	63	12.729	12.739	(1.065)	108911	10.0000	10.3320
	41 Dibromomethane	93	12.906	12.907	(1.080)	71225	10.0000	10.4678
	42 Bromodichloromethane	83	13.073	13.074	(1.094)	118613	10.0000	10.2218
	44 cis-1,3-Dichloropropene	75	13.674	13.675	(1.144)	156813	10.0000	10.2782
	45 Tetramethyl THF	43	13.753	13.763	(1.151)	212999	10.0000	10.4438
	46 4-Methyl-2-Pentanone	43	13.812	13.812	(1.156)	112386	10.0000	10.0343
$	47 Toluene-d8	98	14.087	14.088	(1.179)	2691942	50.0000	49.6416
	48 Toluene	92	14.176	14.177	(1.186)	199840	10.0000	9.9673
	49 trans-1,3-Dichloropropene	75	14.383	14.383	(1.203)	134036	10.0000	10.3350
	50 1,1,2-Trichloroethane	85	14.649	14.649	(1.226)	50591	10.0000	10.1950
	51 1,3-Dichloropropane	76	14.875	14.876	(0.933)	156701	10.0000	10.4057
	52 2-Hexanone	43	14.895	14.886	(0.935)	72462	10.0000	10.5980
	53 Tetrachloroethene	166	14.924	14.925	(0.936)	60294	10.0000	9.8465
	54 Dibromochloromethane	129	15.200	15.201	(0.954)	89636	10.0000	10.3645
	55 1,2-Dibromoethane	107	15.387	15.388	(1.287)	99159	10.0000	10.3033
*	56 Chlorobenzene-d5	117	15.938	15.939	(1.000)	2212196	50.0000	
	57 Chlorobenzene	112	15.978	15.978	(1.002)	228979	10.0000	10.1235
	58 1,1,1,2-Tetrachloroethane	131	16.047	16.047	(1.007)	72556	10.0000	10.0937
	59 Ethylbenzene	91	16.066	16.067	(1.008)	358639	10.0000	9.9615
	60 m,p-Xylenes	106	16.204	16.195	(1.017)	249578	20.0000	20.0285
	61 o-Xylene	106	16.687	16.687	(1.047)	125185	10.0000	9.9756
	62 Styrene	104	16.687	16.687	(1.047)	216362	10.0000	10.0760
	63 Bromoform	173	16.952	16.953	(1.064)	55611	10.0000	9.8147
	64 Isopropylbenzene	105	17.080	17.081	(0.916)	297397	10.0000	10.0250
	65 Cyclohexanone_	55	17.218	17.219	(0.923)	185069	10.0000	13.0513
$	66 Bromofluorobenzene	95	17.287	17.288	(0.927)	1086519	50.0000	50.2323
	67 1,1,2,2-Tetrachloroethane	83	17.376	17.376	(0.932)	133528	10.0000	10.4787
	68 1,2,3-Trichloropropane	75	17.464	17.465	(0.937)	107727	10.0000	9.7632
	69 Bromobenzene	156	17.514	17.504	(0.939)	77165	10.0000	10.1845
	70 Propylbenzene	91	17.543	17.544	(0.941)	338607	10.0000	9.9258
	71 2-Chlorotoluene	91	17.701	17.701	(0.949)	247268	10.0000	9.8973
	72 1,3,5-Trimethylbenzene	105	17.720	17.721	(0.950)	177825	10.0000	9.7580
	73 4-Chlorotoluene	91	17.809	17.810	(0.955)	215968	10.0000	9.7664
	74 tert-Butylbenzene	119	18.124	18.125	(0.972)	184389	10.0000	9.9095 (M)
	75 1,2,4-Trimethylbenzene	105	18.173	18.174	(0.975)	157448	10.0000	9.5656
	76 sec-Butylbenzene	105	18.380	18.371	(0.986)	250057	10.0000	9.8528
	77 para-Isopropyl Toluene	119	18.518	18.518	(0.993)	158845	10.0000	9.6674
	78 1,3-Dichlorobenzene	146	18.577	18.578	(0.996)	129991	10.0000	10.1236

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG13.D
Report Date: 17-Mar-2006 12:38

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 79 1,4-Dichlorobenzene-d4	152	18.646	18.646	(1.000)	763389	50.0000	
80 1,4-Dichlorobenzene	146	18.675	18.676	(1.002)	124966	10.0000	9.9324
81 n-Butylbenzene	91	19.010	19.011	(1.020)	125746	10.0000	9.4881
82 1,2-Dichlorobenzene	146	19.148	19.149	(1.027)	122798	10.0000	10.0488
83 1,2-Dibromo-3-Chloropropane	75	20.132	20.123	(1.080)	20657	10.0000	10.4730
84 1,2,4-Trichlorobenzene	180	21.373	21.374	(1.146)	28493	10.0000	9.1081
85 Hexachlorobutadiene	225	21.590	21.590	(1.158)	16907	10.0000	9.9857
86 Naphthalene	128	21.826	21.817	(1.171)	85588	10.0000	9.3579
87 1,2,3-Trichlorobenzene	180	22.229	22.230	(1.192)	27627	10.0000	9.2266

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG13.D
Date : 16-MAR-2006 16:25
Client ID: DYNA P&T
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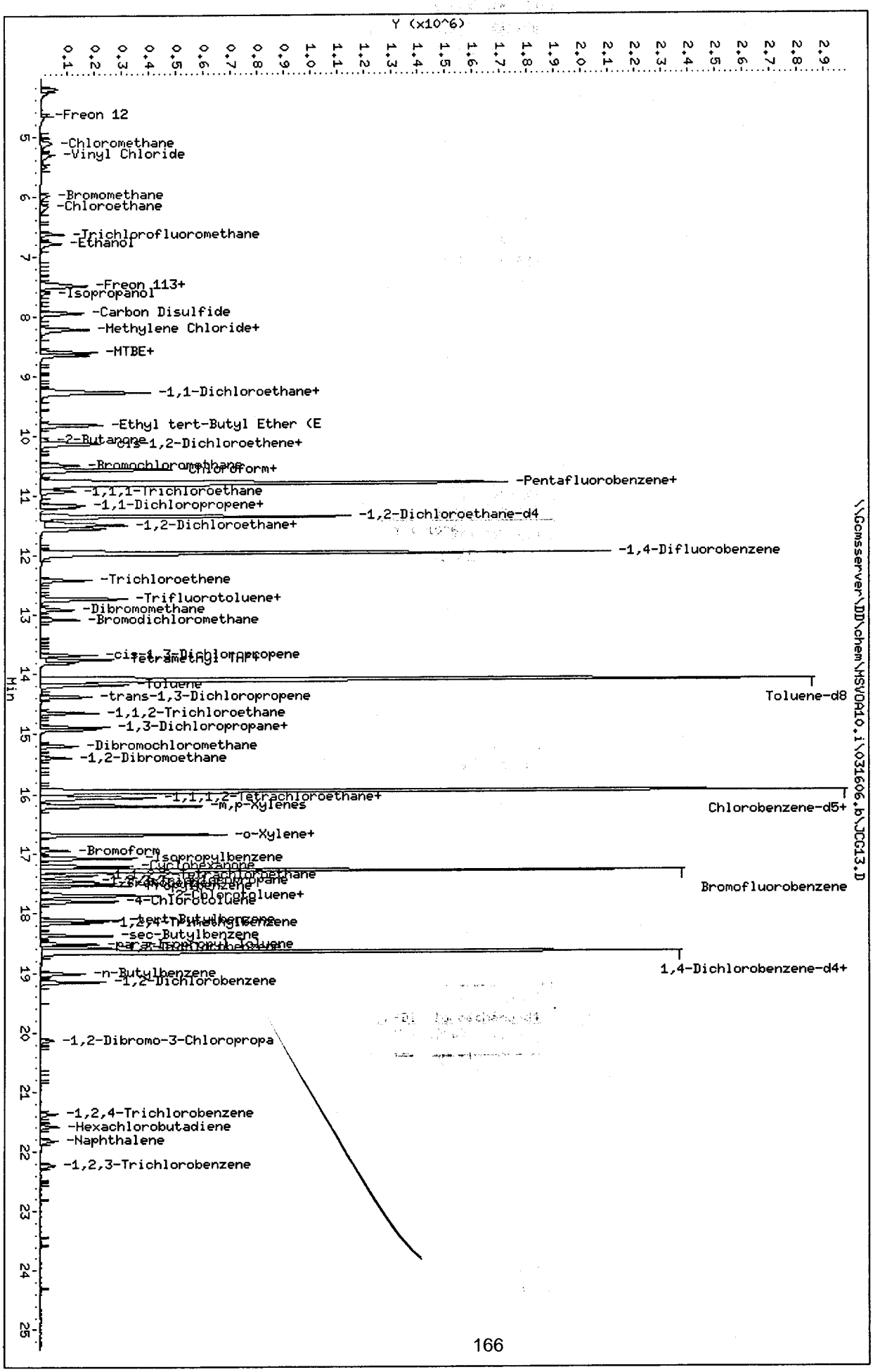
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG14.D
Report Date: 17-Mar-2006 12:38

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG14.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-MAR-2006 17:00 MS Autotune Date: 27-JUL-1998 20:19
Operator : VOC Inst ID: MSVOA10.i
Smp Info : ICAL,S2783,0.004/100,S2844,0.004/100
Misc Info : S2410,0.002/100,20PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\826GOX10.m
Meth Date : 17-Mar-2006 12:29 target Quant Type: ISTD
Cal Date : 16-MAR-2006 17:00 Cal File: JCG14.D
Als bottle: 14 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.647	4.646	(0.431)	138477	20.0000	18.0812
2 Chloromethane	50	5.109	5.119	(0.474)	282850	20.0000	20.8192
3 Vinyl Chloride	62	5.306	5.306	(0.493)	232908	20.0000	19.5354
4 Bromomethane	94	5.986	5.985	(0.556)	110842	20.0000	20.7793
5 Chloroethane	64	6.173	6.163	(0.573)	151500	20.0000	20.3494
6 Trichlorofluoromethane	101	6.635	6.635	(0.616)	197979	20.0000	18.0502
7 Ethanol	45	6.783	6.783	(0.630)	293197	2000.00	2078.3520
8 Freon 113	101	7.462	7.472	(0.693)	156034	20.0000	24.4124
9 Acetone	43	7.492	7.482	(0.696)	62447	20.0000	18.2880
10 1,1-Dichloroethene	96	7.502	7.502	(0.697)	153344	20.0000	21.4285
11 Isopropanol	45	7.610	7.600	(0.707)	136434	200.000	214.1947
12 Carbon Disulfide	76	7.945	7.954	(0.738)	710054	20.0000	21.6091
13 Methylene Chloride	84	8.211	8.210	(0.762)	226949	20.0000	20.3595
14 tert-Butyl Alcohol (TBA)	59	8.220	8.220	(0.763)	192089	200.000	217.5006
15 MTBE	73	8.604	8.603	(0.799)	572263	20.0000	20.8413
16 trans-1,2-Dichloroethene	96	8.654	8.653	(0.803)	190708	20.0000	21.0708
17 Hexane_	57	9.284	9.284	(0.862)	1835	20.0000	15.4589
18 Vinyl Acetate	43	9.235	9.244	(0.857)	547766	20.0000	21.9728 (M)
19 1,1-Dichloroethane	63	9.274	9.274	(0.861)	357360	20.0000	21.6296
20 Isopropyl Ether (DIPE)	45	9.284	9.284	(0.862)	778004	20.0000	21.2322
21 Ethyl tert-Butyl Ether (ETBE)	59	9.815	9.825	(0.911)	585273	20.0000	21.1123
22 2-Butanone	43	10.062	10.052	(0.934)	107958	20.0000	20.7657

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG14.D
Report Date: 17-Mar-2006 12:38

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 cis-1,2-Dichloroethene	96	10.121	10.120	(0.940)	217399	20.0000	21.3968
24 2,2-Dichloropropane	77	10.150	10.160	(0.942)	212596	20.0000	20.9440
25 Bromochloromethane	128	10.495	10.495	(0.974)	108286	20.0000	21.7275
26 Chloroform	83	10.554	10.554	(0.980)	332137	20.0000	21.4660
27 Tetrahydrofuran	42	10.564	10.563	(0.981)	634479	200.000	210.5837
* 28 Pentafluorobenzene	168	10.770	10.780	(1.000)	1247572	50.0000	
$ 29 Dibromofluoromethane	113	10.800	10.800	(1.003)	900868	50.0000	49.9347
30 1,1,1-Trichloroethane	97	10.928	10.938	(1.015)	218603	20.0000	21.7272
31 1,1-Dichloropropene	75	11.164	11.164	(0.934)	233356	20.0000	21.4845
32 Carbon Tetrachloride	117	11.204	11.213	(0.937)	163765	20.0000	21.9987
$ 33 1,2-Dichloroethane-d4	65	11.341	11.341	(0.949)	959599	50.0000	49.8486
34 1,2-Dichloroethane	62	11.460	11.459	(0.959)	246423	20.0000	20.7322
35 Benzene	78	11.489	11.499	(0.961)	747384	20.0000	21.1789
36 Methyl tert-Amyl Ether (TAME)	73	11.548	11.548	(0.966)	553159	20.0000	20.7881
* 37 1,4-Difluorobenzene	114	11.952	11.962	(1.000)	2556966	50.0000	
38 Trichloroethene	95	12.405	12.414	(1.038)	188784	20.0000	21.2686
$ 39 Trifluorotoluene	146	12.720	12.720	(1.064)	199487	20.0000	22.5748
40 1,2-Dichloropropane	63	12.730	12.739	(1.065)	222804	20.0000	21.0411
41 Dibromomethane	93	12.907	12.907	(1.080)	146378	20.0000	21.4157
42 Bromodichloromethane	83	13.074	13.074	(1.094)	245980	20.0000	21.1021
43 2-Chloroethylvinylether	63	13.675	13.684	(1.144)	1457	20.0000	18.5161
44 cis-1,3-Dichloropropene	75	13.675	13.675	(1.144)	322656	20.0000	21.0527
45 Tetramethyl THF	43	13.753	13.763	(1.151)	437262	20.0000	21.3430
46 4-Methyl-2-Pentanone	43	13.813	13.812	(1.156)	231523	20.0000	20.5780
$ 47 Toluene-d8	98	14.088	14.088	(1.179)	2723456	50.0000	49.9955
48 Toluene	92	14.177	14.177	(1.186)	427813	20.0000	21.2413
49 trans-1,3-Dichloropropene	75	14.384	14.383	(1.203)	280727	20.0000	21.5479
50 1,1,2-Trichloroethane	85	14.649	14.649	(1.226)	102167	20.0000	20.4955
51 1,3-Dichloropropane	76	14.876	14.876	(0.933)	315155	20.0000	20.7480
52 2-Hexanone	43	14.896	14.886	(0.935)	148182	20.0000	21.4862
53 Tetrachloroethene	166	14.925	14.925	(0.936)	135318	20.0000	21.9086
54 Dibromochloromethane	129	15.201	15.201	(0.954)	181552	20.0000	20.8124
55 1,2-Dibromoethane	107	15.388	15.388	(1.287)	202770	20.0000	20.9740
* 56 Chlorobenzene-d5	117	15.939	15.939	(1.000)	2231370	50.0000	
57 Chlorobenzene	112	15.979	15.978	(1.002)	481051	20.0000	21.0853
58 1,1,1,2-Tetrachloroethane	131	16.047	16.047	(1.007)	153842	20.0000	21.2180
59 Ethylbenzene	91	16.067	16.067	(1.008)	778592	20.0000	21.4402
60 m,p-Xylenes	106	16.205	16.195	(1.017)	544884	40.0000	43.3509
61 o-Xylene	106	16.687	16.687	(1.047)	265390	20.0000	20.9665
62 Styrene	104	16.687	16.687	(1.047)	462412	20.0000	21.3497
63 Bromoform	173	16.953	16.953	(1.064)	116663	20.0000	20.4129
64 Isopropylbenzene	105	17.081	17.081	(0.916)	651922	20.0000	21.5045
65 Cyclohexanone_	55	17.219	17.219	(0.923)	155098	20.0000	10.7032
$ 66 Bromofluorobenzene	95	17.288	17.288	(0.927)	1090424	50.0000	49.3320
67 1,1,2,2-Tetrachloroethane	83	17.377	17.376	(0.932)	276384	20.0000	21.2245
68 1,2,3-Trichloropropane	75	17.465	17.465	(0.937)	219303	20.0000	19.4491
69 Bromobenzene	156	17.514	17.504	(0.939)	164501	20.0000	21.2459
70 Propylbenzene	91	17.544	17.544	(0.941)	758793	20.0000	21.7661
71 2-Chlorotoluene	91	17.701	17.701	(0.949)	540582	20.0000	21.1738
72 1,3,5-Trimethylbenzene	105	17.721	17.721	(0.950)	405902	20.0000	21.7960
73 4-Chlorotoluene	91	17.810	17.810	(0.955)	481023	20.0000	21.2862
74 tert-Butylbenzene	119	18.125	18.125	(0.972)	415993	20.0000	21.8772(M)
75 1,2,4-Trimethylbenzene	105	18.174	18.174	(0.975)	360086	20.0000	21.4077
76 sec-Butylbenzene	105	18.381	18.371	(0.986)	576107	20.0000	22.2132

3/17/06

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG14.D
Report Date: 17-Mar-2006 12:38

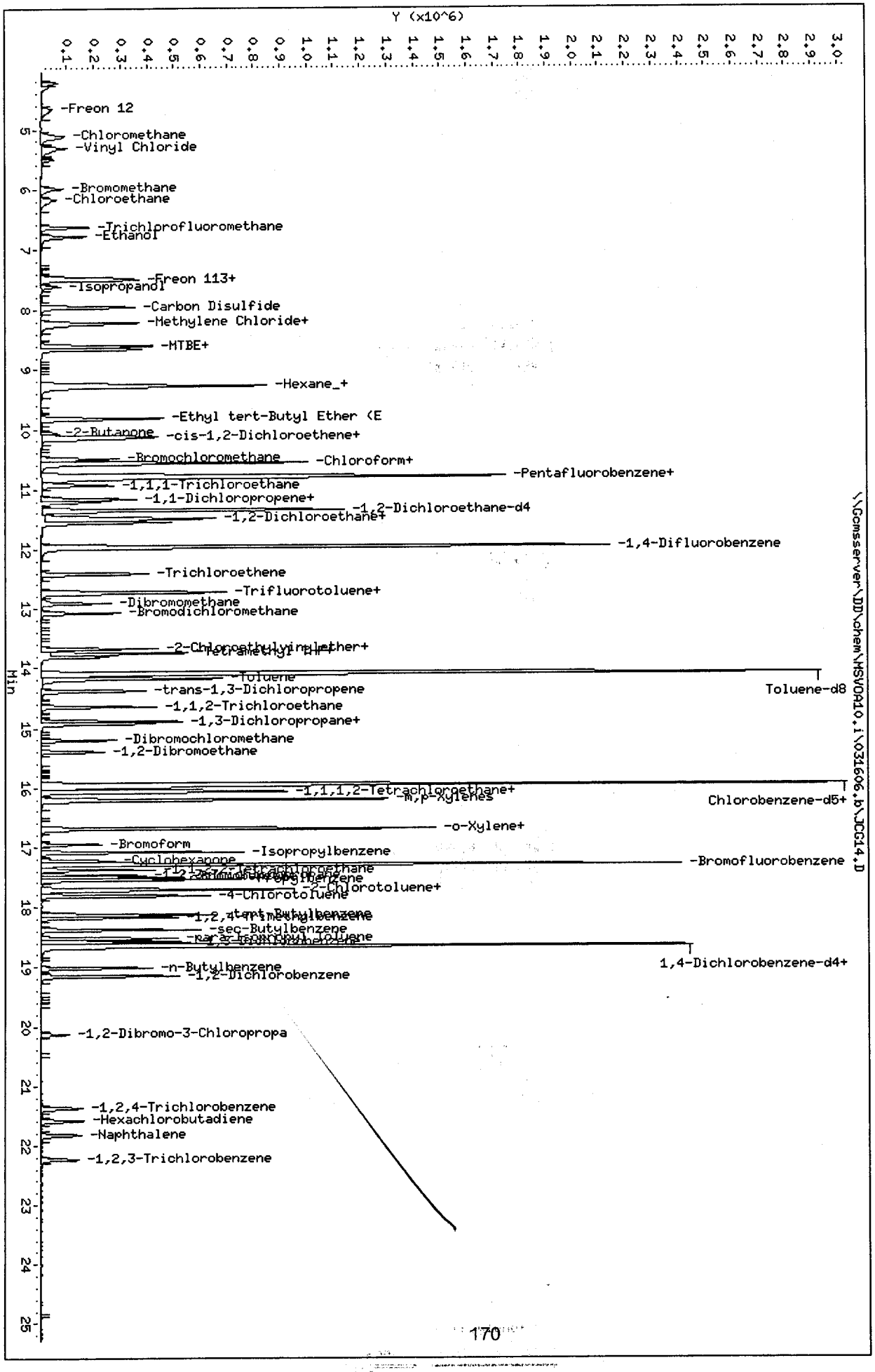
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 para-Isopropyl Toluene	119	18.519	18.518	(0.993)	374340	20.0000	22.2940
78 1,3-Dichlorobenzene	146	18.578	18.578	(0.996)	275479	20.0000	20.9941
* 79 1,4-Dichlorobenzene-d4	152	18.647	18.646	(1.000)	780115	50.0000	
80 1,4-Dichlorobenzene	146	18.676	18.676	(1.002)	265320	20.0000	20.6357
81 n-Butylbenzene	91	19.011	19.011	(1.020)	309572	20.0000	22.8579
82 1,2-Dichlorobenzene	146	19.149	19.149	(1.027)	269814	20.0000	21.6060
83 1,2-Dibromo-3-Chloropropane	75	20.133	20.123	(1.080)	40910	20.0000	21.1428
84 1,2,4-Trichlorobenzene	180	21.374	21.374	(1.146)	73030	20.0000	21.5391
85 Hexachlorobutadiene	225	21.590	21.590	(1.158)	42766	20.0000	25.3125
86 Naphthalene	128	21.817	21.817	(1.170)	195014	20.0000	20.8650
87 1,2,3-Trichlorobenzene	180	22.230	22.230	(1.192)	68318	20.0000	20.7232

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG14.D
Date : 16-MAR-2006 17:00
Client ID: DYNA P&T
Sample Info: ICAL,S2783,0.004/100,S2844,0.004/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG15.D
Report Date: 17-Mar-2006 12:38

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG15.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-MAR-2006 17:35 MS Autotune Date: 27-JUL-1998 20:19
Operator : VOC Inst ID: MSVOA10.i
Smp Info : ICAL,S2783,0.01/100,S2844,0.01/100
Misc Info : S2410,0.005/100,50PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\826GOX10.m
Meth Date : 17-Mar-2006 12:29 target Quant Type: ISTD
Cal Date : 16-MAR-2006 17:35 Cal File: JCG15.D
Als bottle: 15 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.651	4.646	(0.432)	384326	50.0000	51.1765
2 Chloromethane	50	5.123	5.119	(0.476)	648578	50.0000	48.6846
3 Vinyl Chloride	62	5.310	5.306	(0.493)	563980	50.0000	48.2419
4 Bromomethane	94	5.990	5.985	(0.556)	273859	50.0000	48.5548
5 Chloroethane	64	6.167	6.163	(0.572)	345056	50.0000	47.2663
6 Trichlorofluoromethane	101	6.629	6.635	(0.615)	522889	50.0000	48.6178
7 Ethanol	45	6.777	6.783	(0.629)	735521	5000.00	5317.1181
8 Freon 113	101	7.466	7.472	(0.693)	334905	50.0000	51.2585
9 Acetone	43	7.486	7.482	(0.695)	177566	50.0000	53.0319
10 1,1-Dichloroethene	96	7.496	7.502	(0.696)	333998	50.0000	47.5983
11 Isopropanol	45	7.604	7.600	(0.706)	340506	500.000	545.1707
12 Carbon Disulfide	76	7.949	7.954	(0.738)	1553369	50.0000	48.2106
13 Methylene Chloride	84	8.215	8.210	(0.762)	508804	50.0000	46.5492
14 tert-Butyl Alcohol (TBA)	59	8.224	8.220	(0.763)	462087	500.000	533.5846
15 MTBE	73	8.599	8.603	(0.798)	1356980	50.0000	50.3993
16 trans-1,2-Dichloroethene	96	8.648	8.653	(0.803)	419839	50.0000	47.3061
17 Hexane_	57	9.278	9.284	(0.861)	6841	50.0000	58.7741
18 Vinyl Acetate	43	9.238	9.244	(0.857)	1211261	50.0000	48.9755(M)
19 1,1-Dichloroethane	63	9.268	9.274	(0.860)	766610	50.0000	47.3194
20 Isopropyl Ether (DIPE)	45	9.278	9.284	(0.861)	1761267	50.0000	49.0186
21 Ethyl tert-Butyl Ether (ETBE)	59	9.819	9.825	(0.911)	1335435	50.0000	49.1273
22 2-Butanone	43	10.056	10.052	(0.933)	276895	50.0000	54.3163

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Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG15.D
Report Date: 17-Mar-2006 12:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	10.125	10.120	(0.940)	476752	50.0000	47.8526
	24 2,2-Dichloropropane	77	10.154	10.160	(0.942)	464463	50.0000	46.6636
	25 Bromochloromethane	128	10.489	10.495	(0.974)	248006	50.0000	50.7484
	26 Chloroform	83	10.558	10.554	(0.980)	724135	50.0000	47.7283
	27 Tetrahydrofuran	42	10.568	10.563	(0.981)	1479567	500.000	500.7995
*	28 Pentafluorobenzene	168	10.774	10.780	(1.000)	1223331	50.0000	
$	29 Dibromofluoromethane	113	10.794	10.800	(1.002)	886760	50.0000	50.1267
	30 1,1,1-Trichloroethane	97	10.932	10.938	(1.015)	467400	50.0000	47.3760
	31 1,1-Dichloropropene	75	11.158	11.164	(0.933)	500499	50.0000	46.5040
	32 Carbon Tetrachloride	117	11.208	11.213	(0.937)	353501	50.0000	47.9234
$	33 1,2-Dichloroethane-d4	65	11.345	11.341	(0.949)	948951	50.0000	49.7493
	34 1,2-Dichloroethane	62	11.463	11.459	(0.959)	576776	50.0000	48.9724
	35 Benzene	78	11.493	11.499	(0.961)	1636602	50.0000	46.8039
	36 Methyl tert-Amyl Ether (TAME)	73	11.552	11.548	(0.966)	1300178	50.0000	49.3115
*	37 1,4-Difluorobenzene	114	11.956	11.962	(1.000)	2533641	50.0000	
	38 Trichloroethene	95	12.409	12.414	(1.038)	407919	50.0000	46.3797
$	39 Trifluorotoluene	146	12.724	12.720	(1.064)	423462	50.0000	48.3620
	40 1,2-Dichloropropane	63	12.734	12.739	(1.065)	504246	50.0000	48.0582
	41 Dibromomethane	93	12.911	12.907	(1.080)	343610	50.0000	50.7343
	42 Bromodichloromethane	83	13.078	13.074	(1.094)	571821	50.0000	49.5069
	43 2-Chloroethylvinylether	63	13.679	13.684	(1.144)	4075	50.0000	52.2635
	44 cis-1,3-Dichloropropene	75	13.679	13.675	(1.144)	748591	50.0000	49.2939
	45 Tetramethyl THF	43	13.757	13.763	(1.151)	981071	50.0000	48.3276
	46 4-Methyl-2-Pentanone	43	13.807	13.812	(1.155)	615319	50.0000	55.1936
$	47 Toluene-d8	98	14.082	14.088	(1.178)	2681894	50.0000	49.6858
	48 Toluene	92	14.181	14.177	(1.186)	944707	50.0000	47.3375
	49 trans-1,3-Dichloropropene	75	14.378	14.383	(1.203)	657461	50.0000	50.9298
	50 1,1,2-Trichloroethane	85	14.644	14.649	(1.225)	244228	50.0000	49.4451
	51 1,3-Dichloropropane	76	14.880	14.876	(0.933)	748640	50.0000	50.0453
	52 2-Hexanone	43	14.890	14.886	(0.934)	367279	50.0000	54.0754
	53 Tetrachloroethene	166	14.919	14.925	(0.936)	292082	50.0000	48.0180
	54 Dibromochloromethane	129	15.205	15.201	(0.954)	437219	50.0000	50.8931
	55 1,2-Dibromoethane	107	15.392	15.388	(1.287)	477622	50.0000	49.8588
*	56 Chlorobenzene-d5	117	15.943	15.939	(1.000)	2197520	50.0000	
	57 Chlorobenzene	112	15.982	15.978	(1.002)	1074326	50.0000	47.8150
	58 1,1,1,2-Tetrachloroethane	131	16.042	16.047	(1.006)	359250	50.0000	50.3113
	59 Ethylbenzene	91	16.071	16.067	(1.008)	1686847	50.0000	47.1665
	60 m,p-Xylenes	106	16.199	16.195	(1.016)	1198447	100.000	96.8171
	61 o-Xylene	106	16.682	16.687	(1.046)	596603	50.0000	47.8593
	62 Styrene	104	16.691	16.687	(1.047)	1062137	50.0000	49.7945
	63 Bromoform	173	16.947	16.953	(1.063)	280439	50.0000	49.8252
	64 Isopropylbenzene	105	17.085	17.081	(0.917)	1404402	50.0000	45.2864
	65 Cyclohexanone_	55	17.223	17.219	(0.924)	941832	50.0000	63.5367
$	66 Bromofluorobenzene	95	17.292	17.288	(0.928)	1072288	50.0000	47.4227
	67 1,1,2,2-Tetrachloroethane	83	17.381	17.376	(0.932)	648257	50.0000	48.6646
	68 1,2,3-Trichloropropane	75	17.459	17.465	(0.937)	536873	50.0000	46.5445
	69 Bromobenzene	156	17.509	17.504	(0.939)	380046	50.0000	47.9827
	70 Propylbenzene	91	17.548	17.544	(0.941)	1648795	50.0000	46.2346
	71 2-Chlorotoluene	91	17.696	17.701	(0.949)	1212052	50.0000	46.4089
	72 1,3,5-Trimethylbenzene	105	17.725	17.721	(0.951)	911212	50.0000	47.8319
	73 4-Chlorotoluene	91	17.814	17.810	(0.956)	1089071	50.0000	47.1119
	74 tert-Butylbenzene	119	18.129	18.125	(0.973)	912937	50.0000	46.9341(M)
	75 1,2,4-Trimethylbenzene	105	18.168	18.174	(0.975)	858009	50.0000	49.8652
	76 sec-Butylbenzene	105	18.375	18.371	(0.986)	1243420	50.0000	46.8671

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Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG15.D
Report Date: 17-Mar-2006 12:38

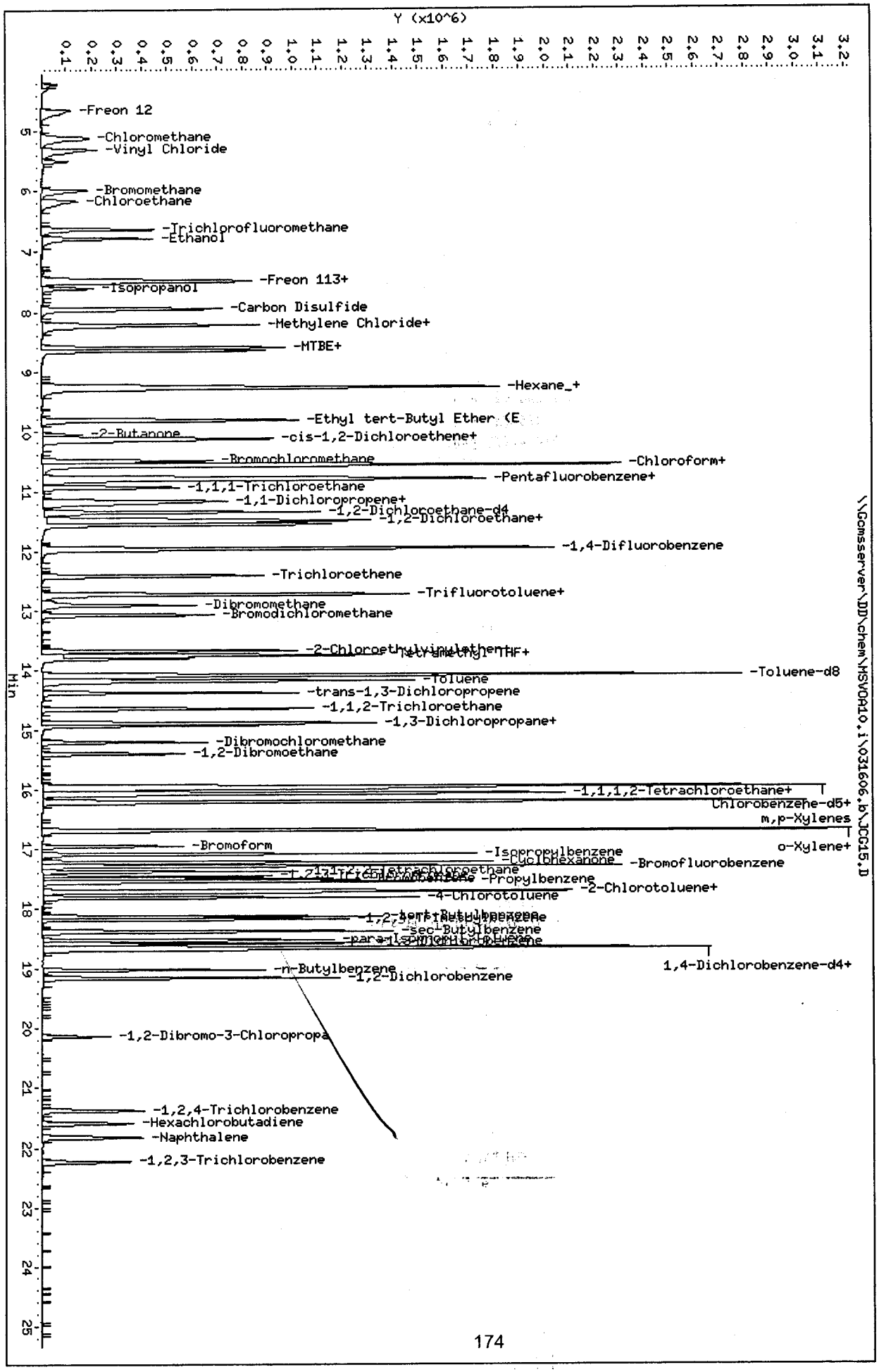
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 para-Isopropyl Toluene	119	18.513	18.518	(0.993)	842886	50.0000	49.0720
78 1,3-Dichlorobenzene	146	18.572	18.578	(0.996)	633714	50.0000	47.2110
* 79 1,4-Dichlorobenzene-d4	152	18.641	18.646	(1.000)	798026	50.0000	
80 1,4-Dichlorobenzene	146	18.670	18.676	(1.002)	626715	50.0000	47.6499
81 n-Butylbenzene	91	19.015	19.011	(1.020)	699976	50.0000	50.5243
82 1,2-Dichlorobenzene	146	19.153	19.149	(1.027)	633143	50.0000	49.5626
83 1,2-Dibromo-3-Chloropropane	75	20.127	20.123	(1.080)	102028	50.0000	52.8433
84 1,2,4-Trichlorobenzene	180	21.368	21.374	(1.146)	181089	50.0000	49.2009
85 Hexachlorobutadiene	225	21.584	21.590	(1.158)	89561	50.0000	50.2816
86 Naphthalene	128	21.821	21.817	(1.171)	511543	50.0000	53.5028
87 1,2,3-Trichlorobenzene	180	22.234	22.230	(1.193)	176308	50.0000	49.2244

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCC15.D
Date : 16-MAR-2006 17:35
Client ID: DYNA P&T
Sample Info: ICAL,S2783,0.01/100,S2844,0.01/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG16.D
Report Date: 17-Mar-2006 12:38

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG16.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-MAR-2006 18:10 MS Autotune Date: 27-JUL-1998 20:19
Operator : VOC Inst ID: MSVOA10.i
Smp Info : ICAL,S2783,0.015/100,S2844,0.015/100
Misc Info : S2410,0.0075/100,75PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\826GOX10.m
Meth Date : 17-Mar-2006 12:29 target Quant Type: ISTD
Cal Date : 16-MAR-2006 18:10 Cal File: JCG16.D
Als bottle: 16 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.646	4.646	(0.431)	673220	75.0000	88.9629
2 Chloromethane	50	5.118	5.119	(0.475)	1022702	75.0000	76.1833
3 Vinyl Chloride	62	5.305	5.306	(0.492)	962610	75.0000	81.7133
4 Bromomethane	94	5.985	5.985	(0.555)	463208	75.0000	76.5464
5 Chloroethane	64	6.172	6.163	(0.573)	564111	75.0000	76.6845
6 Trichlorofluoromethane	101	6.635	6.635	(0.615)	936277	75.0000	86.3915
7 Ethanol	45	6.782	6.783	(0.629)	1056263	7500.00	7577.6448
8 Freon 113	101	7.462	7.472	(0.692)	489034	75.0000	70.8025
9 Acetone	43	7.481	7.482	(0.694)	282722	75.0000	83.7950
10 1,1-Dichloroethene	96	7.501	7.502	(0.696)	524962	75.0000	74.2433
11 Isopropanol	45	7.599	7.600	(0.705)	503406	750.000	799.8473
12 Carbon Disulfide	76	7.944	7.954	(0.737)	2386001	75.0000	73.4885
13 Methylene Chloride	84	8.210	8.210	(0.762)	747539	75.0000	67.8698
14 tert-Butyl Alcohol (TBA)	59	8.220	8.220	(0.763)	692226	750.000	793.2470
15 MTBE	73	8.604	8.603	(0.798)	2039269	75.0000	75.1635
16 trans-1,2-Dichloroethene	96	8.653	8.653	(0.803)	645486	75.0000	72.1776
17 Hexane_	57	9.293	9.284	(0.862)	9741	75.0000	83.0521
18 Vinyl Acetate	43	9.234	9.244	(0.857)	1680247	75.0000	67.2483(M)
19 1,1-Dichloroethane	63	9.273	9.274	(0.860)	1157627	75.0000	70.9111
20 Isopropyl Ether (DIPE)	45	9.283	9.284	(0.861)	2603189	75.0000	71.8989
21 Ethyl tert-Butyl Ether (ETBE)	59	9.824	9.825	(0.911)	2003874	75.0000	73.1563
22 2-Butanone	43	10.061	10.052	(0.933)	419610	75.0000	81.6849

3/17/06

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG16.D
Report Date: 17-Mar-2006 12:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	10.120	10.120	(0.939)	728701	75.0000	72.5844
	24 2,2-Dichloropropane	77	10.159	10.160	(0.942)	707879	75.0000	70.5776
	25 Bromochloromethane	128	10.494	10.495	(0.974)	375136	75.0000	76.1781
	26 Chloroform	83	10.553	10.554	(0.979)	1105352	75.0000	72.2999
	27 Tetrahydrofuran	42	10.563	10.563	(0.980)	2230167	750.000	749.1135
*	28 Pentafluorobenzene	168	10.779	10.780	(1.000)	1232716	50.0000	
$	29 Dibromofluoromethane	113	10.799	10.800	(1.002)	893728	50.0000	50.1359
	30 1,1,1-Trichloroethane	97	10.937	10.938	(1.015)	730387	75.0000	73.4689
	31 1,1-Dichloropropene	75	11.163	11.164	(0.933)	761226	75.0000	71.1371
	32 Carbon Tetrachloride	117	11.213	11.213	(0.937)	543927	75.0000	74.1640
$	33 1,2-Dichloroethane-d4	65	11.341	11.341	(0.948)	953640	50.0000	50.2832
	34 1,2-Dichloroethane	62	11.459	11.459	(0.958)	862534	75.0000	73.6573
	35 Benzene	78	11.498	11.499	(0.961)	2493129	75.0000	71.7100
	36 Methyl tert-Amyl Ether (TAME)	73	11.547	11.548	(0.965)	1945725	75.0000	74.2203
*	37 1,4-Difluorobenzene	114	11.961	11.962	(1.000)	2519125	50.0000	
	38 Trichloroethene	95	12.414	12.414	(1.038)	632564	75.0000	72.3358
$	39 Trifluorotoluene	146	12.719	12.720	(1.063)	633636	75.0000	72.7822
	40 1,2-Dichloropropane	63	12.729	12.739	(1.064)	754068	75.0000	72.2822
	41 Dibromomethane	93	12.906	12.907	(1.079)	507786	75.0000	75.4071
	42 Bromodichloromethane	83	13.073	13.074	(1.093)	856135	75.0000	74.5493
	43 2-Chloroethylvinylether	63	13.684	13.684	(1.144)	5981	75.0000	77.1507
	44 cis-1,3-Dichloropropene	75	13.674	13.675	(1.143)	1137849	75.0000	75.3579
	45 Tetramethyl THF	43	13.753	13.763	(1.150)	1528106	75.0000	75.7083
	46 4-Methyl-2-Pentanone	43	13.812	13.812	(1.155)	875050	75.0000	78.9436
$	47 Toluene-d8	98	14.087	14.088	(1.178)	2709802	50.0000	50.4921
	48 Toluene	92	14.176	14.177	(1.185)	1409653	75.0000	71.0421
	49 trans-1,3-Dichloropropene	75	14.383	14.383	(1.202)	993007	75.0000	77.3659
	50 1,1,2-Trichloroethane	85	14.649	14.649	(1.225)	370122	75.0000	75.3648
	51 1,3-Dichloropropane	76	14.875	14.876	(0.933)	1113549	75.0000	74.0176
	52 2-Hexanone	43	14.895	14.886	(0.934)	558926	75.0000	81.8264
	53 Tetrachloroethene	166	14.924	14.925	(0.936)	443944	75.0000	72.5709
	54 Dibromochloromethane	129	15.200	15.201	(0.953)	662757	75.0000	76.7096
	55 1,2-Dibromoethane	107	15.387	15.388	(1.286)	726362	75.0000	76.2616
*	56 Chlorobenzene-d5	117	15.948	15.939	(1.000)	2210028	50.0000	
	57 Chlorobenzene	112	15.978	15.978	(1.002)	1608143	75.0000	71.1686
	58 1,1,1,2-Tetrachloroethane	131	16.047	16.047	(1.006)	535597	75.0000	74.5834
	59 Ethylbenzene	91	16.066	16.067	(1.007)	2546945	75.0000	70.8130
	60 m,p-Xylenes	106	16.204	16.195	(1.016)	1828341	150.000	146.8674
	61 o-Xylene	106	16.687	16.687	(1.046)	907388	75.0000	72.3785
	62 Styrene	104	16.687	16.687	(1.046)	1638565	75.0000	76.3836
	63 Bromoform	173	16.952	16.953	(1.063)	424059	75.0000	74.9156
	64 Isopropylbenzene	105	17.090	17.081	(0.917)	2127354	75.0000	65.4669
	65 Cyclohexanone_	55	17.218	17.219	(0.923)	1494311	75.0000	96.2050
$	66 Bromofluorobenzene	95	17.287	17.288	(0.927)	1086453	50.0000	45.8554
	67 1,1,2,2-Tetrachloroethane	83	17.376	17.376	(0.932)	978773	75.0000	70.1219
	68 1,2,3-Trichloropropane	75	17.464	17.465	(0.937)	805768	75.0000	66.6671
	69 Bromobenzene	156	17.514	17.504	(0.939)	575708	75.0000	69.3675
	70 Propylbenzene	91	17.553	17.544	(0.941)	2548848	75.0000	68.2103
	71 2-Chlorotoluene	91	17.701	17.701	(0.949)	1849585	75.0000	67.5864
	72 1,3,5-Trimethylbenzene	105	17.720	17.721	(0.950)	1474416	75.0000	73.8624
	73 4-Chlorotoluene	91	17.809	17.810	(0.955)	1689618	75.0000	69.7539
	74 tert-Butylbenzene	119	18.124	18.125	(0.972)	1422404	75.0000	69.7872(M)
	75 1,2,4-Trimethylbenzene	105	18.173	18.174	(0.975)	1398869	75.0000	77.5868
	76 sec-Butylbenzene	105	18.380	18.371	(0.986)	1939290	75.0000	69.7588

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG16.D
Report Date: 17-Mar-2006 12:38

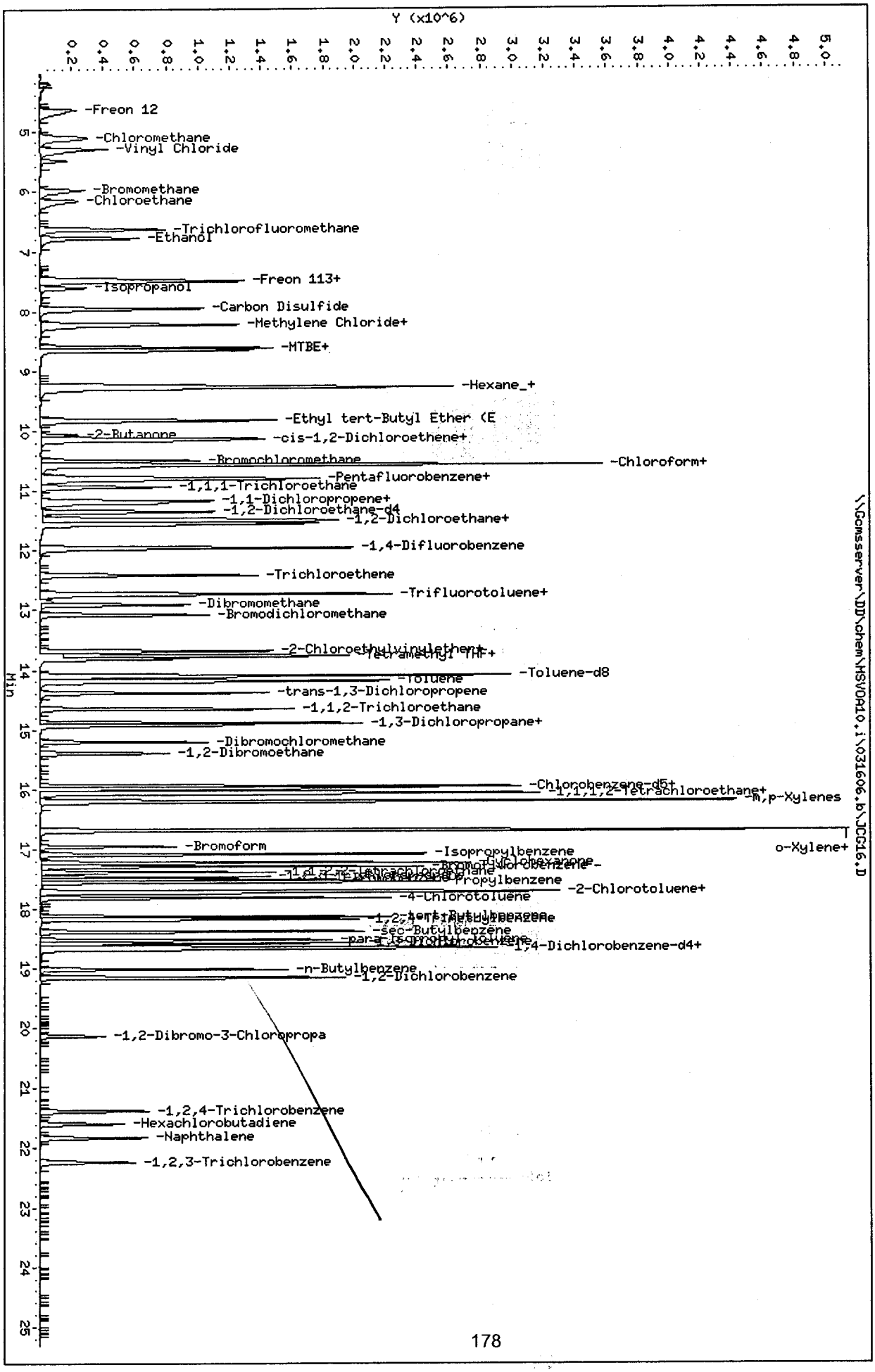
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 para-Isopropyl Toluene	119	18.518	18.518	(0.993)	1349695	75.0000	74.9904
78 1,3-Dichlorobenzene	146	18.577	18.578	(0.996)	981624	75.0000	69.7912
* 79 1,4-Dichlorobenzene-d4	152	18.646	18.646	(1.000)	836203	50.0000	
80 1,4-Dichlorobenzene	146	18.675	18.676	(1.002)	989506	75.0000	71.7986
81 n-Butylbenzene	91	19.010	19.011	(1.020)	1144323	75.0000	78.8263
82 1,2-Dichlorobenzene	146	19.148	19.149	(1.027)	962089	75.0000	71.8742
83 1,2-Dibromo-3-Chloropropane	75	20.132	20.123	(1.080)	154269	75.0000	76.6522
84 1,2,4-Trichlorobenzene	180	21.373	21.374	(1.146)	305116	75.0000	75.1966
85 Hexachlorobutadiene	225	21.590	21.590	(1.158)	137801	75.0000	70.9524
86 Naphthalene	128	21.816	21.817	(1.170)	855057	75.0000	85.3484
87 1,2,3-Trichlorobenzene	180	22.229	22.230	(1.192)	296106	75.0000	75.7634

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\HSVOA10.i\031606.b\JCG16.D
Date : 16-MAR-2006 18:10
Client ID: DYNA P&T
Sample Info: ICAL,S2783,0.015/100,S2844,0.015/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA10.i
Operator: VOC
Column diameter: 0.32



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Report Date: 17-Mar-2006 12:38

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG17.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-MAR-2006 18:45 MS Autotune Date: 27-JUL-1998 20:19
Operator : VOC Inst ID: MSVOA10.i
Smp Info : ICAL,S2783,0.02/100,S2844,0.02/100
Misc Info : S2410,0.01/100,100PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\826GOX10.m
Meth Date : 17-Mar-2006 12:29 target Quant Type: ISTD
Cal Date : 16-MAR-2006 18:45 Cal File: JCG17.D
Als bottle: 17 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.646	4.646	(0.431)	933416	100.000	119.7498
2 Chloromethane	50	5.119	5.119	(0.475)	1415394	100.000	102.3613
3 Vinyl Chloride	62	5.306	5.306	(0.492)	1312261	100.000	108.1459
4 Bromomethane	94	5.985	5.985	(0.555)	656084	100.000	99.4349
5 Chloroethane	64	6.162	6.163	(0.572)	769651	100.000	101.5744
6 Trichlorofluoromethane	101	6.635	6.635	(0.616)	1286472	100.000	115.2430
7 Ethanol	45	6.782	6.783	(0.629)	1399726	10000.0	9748.8358
8 Freon 113	101	7.472	7.472	(0.693)	799613	100.000	101.2541
9 Acetone	43	7.481	7.482	(0.694)	284000	100.000	81.7192
10 1,1-Dichloroethene	96	7.501	7.502	(0.696)	739206	100.000	101.4944
11 Isopropanol	45	7.600	7.600	(0.705)	651229	1000.00	1004.5463
12 Carbon Disulfide	76	7.954	7.954	(0.738)	3291409	100.000	98.4188
13 Methylene Chloride	84	8.210	8.210	(0.762)	1029232	100.000	90.7201
14 tert-Butyl Alcohol (TBA)	59	8.220	8.220	(0.763)	872925	1000.00	971.1471
15 MTBE	73	8.600	8.603	(0.798)	2718014	100.000	97.2595
16 trans-1,2-Dichloroethene	96	8.653	8.653	(0.803)	885452	100.000	96.1232
17 Hexane_	57	9.283	9.284	(0.861)	11407	100.000	94.4205
18 Vinyl Acetate	43	9.244	9.244	(0.858)	2708287	100.000	104.9738 (M)
19 1,1-Dichloroethane	63	9.273	9.274	(0.860)	1567376	100.000	93.2109
20 Isopropyl Ether (DIPE)	45	9.283	9.284	(0.861)	3484447	100.000	93.4325
21 Ethyl tert-Butyl Ether (ETBE)	59	9.825	9.825	(0.911)	2627733	100.000	93.1344
22 2-Butanone	43	10.051	10.052	(0.932)	474349	100.000	89.6482

3/17/06

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG17.D
Report Date: 17-Mar-2006 12:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	10.120	10.120	(0.939)	977510	100.000	94.5285
	24 2,2-Dichloropropane	77	10.159	10.160	(0.942)	988542	100.000	95.6865
	25 Bromochloromethane	128	10.494	10.495	(0.974)	500436	100.000	98.6592
	26 Chloroform	83	10.553	10.554	(0.979)	1499059	100.000	95.1927
	27 Tetrahydrofuran	42	10.563	10.563	(0.980)	2706771	1000.00	882.6922
*	28 Pentafluorobenzene	168	10.780	10.780	(1.000)	1269742	50.0000	
$	29 Dibromofluoromethane	113	10.799	10.800	(1.002)	903162	50.0000	49.1877
	30 1,1,1-Trichloroethane	97	10.937	10.938	(1.015)	1044445	100.000	101.9962
	31 1,1-Dichloropropene	75	11.164	11.164	(0.933)	1119308	100.000	102.3463
	32 Carbon Tetrachloride	117	11.213	11.213	(0.937)	837660	100.000	111.7534
$	33 1,2-Dichloroethane-d4	65	11.341	11.341	(0.948)	956360	50.0000	49.3401
	34 1,2-Dichloroethane	62	11.459	11.459	(0.958)	1168590	100.000	97.6432
	35 Benzene	78	11.498	11.499	(0.961)	3389281	100.000	95.3856
	36 Methyl tert-Amyl Ether (TAME)	73	11.548	11.548	(0.965)	2578115	100.000	96.2241
*	37 1,4-Difluorobenzene	114	11.961	11.962	(1.000)	2574598	50.0000	
	38 Trichloroethene	95	12.414	12.414	(1.038)	863391	100.000	96.6044
$	39 Trifluorotoluene	146	12.719	12.720	(1.063)	971526	100.000	109.1893
	40 1,2-Dichloropropane	63	12.739	12.739	(1.065)	1025113	100.000	96.1464
	41 Dibromomethane	93	12.906	12.907	(1.079)	691477	100.000	100.4731
	42 Bromodichloromethane	83	13.074	13.074	(1.093)	1178544	100.000	100.4124
	43 2-Chloroethylvinylether	63	13.684	13.684	(1.144)	7925	100.000	100.0244
	44 cis-1,3-Dichloropropene	75	13.674	13.675	(1.143)	1541254	100.000	99.8755
	45 Tetramethyl THF	43	13.763	13.763	(1.151)	2006998	100.000	97.2920
	46 4-Methyl-2-Pentanone	43	13.812	13.812	(1.155)	1076557	100.000	95.0302
$	47 Toluene-d8	98	14.088	14.088	(1.178)	2770050	50.0000	50.5026
	48 Toluene	92	14.176	14.177	(1.185)	1961258	100.000	96.7116
	49 trans-1,3-Dichloropropene	75	14.383	14.383	(1.202)	1344644	100.000	102.5050
	50 1,1,2-Trichloroethane	85	14.649	14.649	(1.225)	504387	100.000	100.4911
	51 1,3-Dichloropropane	76	14.875	14.876	(0.933)	1496040	100.000	98.0407
	52 2-Hexanone	43	14.885	14.886	(0.934)	667634	100.000	96.3640
	53 Tetrachloroethene	166	14.924	14.925	(0.936)	659127	100.000	106.2284
	54 Dibromochloromethane	129	15.200	15.201	(0.954)	901424	100.000	102.8636
	55 1,2-Dibromoethane	107	15.387	15.388	(1.286)	973409	100.000	99.9974
*	56 Chlorobenzene-d5	117	15.939	15.939	(1.000)	2241612	50.0000	
	57 Chlorobenzene	112	15.978	15.978	(1.002)	2224733	100.000	97.0687
	58 1,1,1,2-Tetrachloroethane	131	16.047	16.047	(1.007)	739249	100.000	101.4920
	59 Ethylbenzene	91	16.066	16.067	(1.008)	3555830	100.000	97.4702
	60 m,p-Xylenes	106	16.194	16.195	(1.016)	2551968	200.000	202.1067
	61 o-Xylene	106	16.687	16.687	(1.047)	1253934	100.000	98.6117
	62 Styrene	104	16.687	16.687	(1.047)	2224739	100.000	102.2475
	63 Bromoform	173	16.953	16.953	(1.064)	564461	100.000	98.3144
	64 Isopropylbenzene	105	17.081	17.081	(0.916)	3091114	100.000	92.5207
	65 Cyclohexanone_	55	17.218	17.219	(0.923)	1081081	100.000	67.6950
$	66 Bromofluorobenzene	95	17.287	17.288	(0.927)	1120726	50.0000	46.0067
	67 1,1,2,2-Tetrachloroethane	83	17.376	17.376	(0.932)	1294196	100.000	90.1807
	68 1,2,3-Trichloropropane	75	17.465	17.465	(0.937)	1059769	100.000	85.2816
	69 Bromobenzene	156	17.504	17.504	(0.939)	787842	100.000	92.3284
	70 Propylbenzene	91	17.543	17.544	(0.941)	3767258	100.000	98.0558
	71 2-Chlorotoluene	91	17.701	17.701	(0.949)	2580530	100.000	91.7141
	72 1,3,5-Trimethylbenzene	105	17.721	17.721	(0.950)	2130399	100.000	103.8022
	73 4-Chlorotoluene	91	17.809	17.810	(0.955)	2396127	100.000	96.2125
	74 tert-Butylbenzene	119	18.124	18.125	(0.972)	2110531	100.000	100.7133(M)
	75 1,2,4-Trimethylbenzene	105	18.173	18.174	(0.975)	1998853	100.000	107.8286
	76 sec-Butylbenzene	105	18.370	18.371	(0.985)	2974715	100.000	104.0743

B 3/17/06

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\031606.b\JCG17.D
Report Date: 17-Mar-2006 12:38

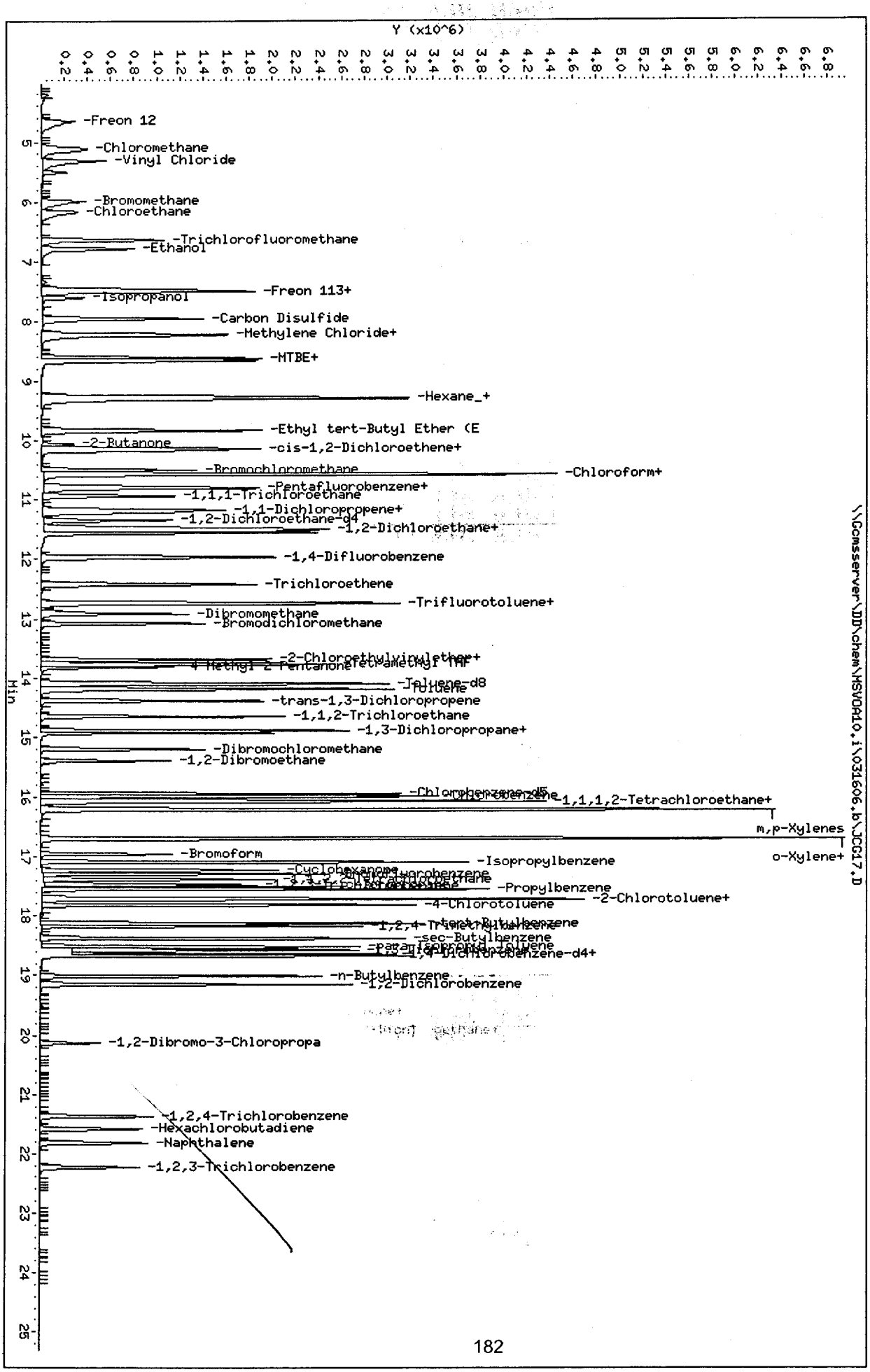
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 para-Isopropyl Toluene	119	18.518	18.518	(0.993)	2046186	100.000	110.5752
78 1,3-Dichlorobenzene	146	18.577	18.578	(0.996)	1371168	100.000	94.8175
* 79 1,4-Dichlorobenzene-d4	152	18.646	18.646	(1.000)	859745	50.0000	
80 1,4-Dichlorobenzene	146	18.675	18.676	(1.002)	1374844	100.000	97.0271
81 n-Butylbenzene	91	19.010	19.011	(1.020)	1786589	100.000	119.6987
82 1,2-Dichlorobenzene	146	19.148	19.149	(1.027)	1344105	100.000	97.6637
83 1,2-Dibromo-3-Chloropropane	75	20.123	20.123	(1.079)	199974	100.000	96.8763
84 1,2,4-Trichlorobenzene	180	21.373	21.374	(1.146)	440422	100.000	100.0108
85 Hexachlorobutadiene	225	21.590	21.590	(1.158)	218827	100.000	101.3969
86 Naphthalene	128	21.816	21.817	(1.170)	1162704	100.000	112.8785
87 1,2,3-Trichlorobenzene	180	22.230	22.230	(1.192)	415818	100.000	99.7336

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA10.i\031606.b\JCG17.D
Date : 16-MAR-2006 18:45
Client ID: DYNA P&T
Sample Info: ICAL,S2783,0.02/100,S2844,0.02/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA10
Seqnum : 496108554018 File : jcg18
Cal : 496108554002 Caldate: 16-MAR-2006
Standards: S2807 (10000X), S2707 (5000X)

IDF : 1.0
Time : 16-MAR-2006 19:20
Caltype: WATER

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	0.3069	0.2381	25.00	19.39	ug/L	-22	30	!v-
Chloromethane	0.5445	0.4520	25.00	20.75	ug/L	-17	30	
Vinyl Chloride	0.4778	0.4027	25.00	21.07	ug/L	-16	20	
Bromomethane	0.1994	0.1857	25.00	21.65	ug/L	-13	30	
Chloroethane	0.2984	0.2505	25.00	20.99	ug/L	-16	30	
Trichlorofluoromethane	0.4396	0.3630	25.00	20.64	ug/L	-17	30	

ISTD (ICAL jcg15)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1223331	1297417	6.06	10.78	10.77	-0.01
1,4-Difluorobenzene	2533641	2620519	3.43	11.96	11.95	-0.01
1,4-Dichlorobenzene-d4	798026	753268	-5.61	18.64	18.65	0.01

3/17/06

3/17/06

!=warning -=low bias v=ICV

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA10 Run Name: NP IDF : 1.0
Seqnum : 496108554019 File : jcg19 Time : 16-MAR-2006 19:55
Cal : 496108554002 Caldate : 16-MAR-2006 Caltype : WATER
Standards: S2902 (10000X), S2616 (10000X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Acetone	0.1369	0.1169	25.00	21.36	ug/L	-15	40	
Freon 113	0.2650	0.2553	25.00	24.90	ug/L	0	30	
1,1-Dichloroethene	0.2868	0.2821	25.00	24.59	ug/L	-2	20	
Methylene Chloride	0.4467	0.4393	25.00	24.58	ug/L	-2	30	
Carbon Disulfide	1.3169	1.0603	25.00	20.13	ug/L	-19	30	
MTBE	1.1005	0.9673	25.00	21.97	ug/L	-12	30	
trans-1,2-Dichloroethene	0.3627	0.3601	25.00	24.82	ug/L	-1	30	
Vinyl Acetate	1.0757	0.7210	25.00	18.12	ug/L	-28	40	
1,1-Dichloroethane	0.6622	0.6667	25.00	25.17	ug/L	1	30	
2-Butanone	0.2084	0.2030	25.00	24.36	ug/L	-3	40	
2,2-Dichloropropane	0.4068	0.3763	25.00	23.12	ug/L	-8	30	
cis-1,2-Dichloroethene	0.4072	0.4167	25.00	25.58	ug/L	2	30	
Chloroform	0.6201	0.6229	25.00	25.11	ug/L	0	20	
Bromochloromethane	0.1997	0.2110	25.00	26.40	ug/L	6	30	
1,1,1-Trichloroethane	0.4032	0.4050	25.00	25.11	ug/L	0	30	
1,1-Dichloropropene	0.2124	0.2181	25.00	25.68	ug/L	3	30	
Carbon Tetrachloride	0.1456	0.1536	25.00	26.37	ug/L	5	30	
1,2-Dichloroethane	0.2324	0.2371	25.00	25.50	ug/L	2	30	
Benzene	0.6901	0.6928	25.00	25.10	ug/L	0	30	
Trichloroethene	0.1736	0.1789	25.00	25.77	ug/L	3	30	
1,2-Dichloropropane	0.2071	0.2109	25.00	25.46	ug/L	2	20	
Bromodichloromethane	0.2279	0.2505	25.00	27.48	ug/L	10	30	
Dibromomethane	0.1337	0.1444	25.00	27.01	ug/L	8	30	
2-Chloroethylvinylether	0.0015	0.0015	25.00	24.05	ug/L	-4	40	
4-Methyl-2-Pentanone	0.2200	0.2326	25.00	26.44	ug/L	6	40	
Tetramethyl THF	0.4006	0.3816	25.00	23.81	ug/L	-5	30	
cis-1,3-Dichloropropene	0.2997	0.3178	25.00	26.51	ug/L	6	30	
Toluene	0.3938	0.4060	25.00	25.77	ug/L	3	20	
trans-1,3-Dichloropropene	0.2548	0.2556	25.00	25.08	ug/L	0	30	
1,1,2-Trichloroethane	0.0975	0.1036	25.00	26.56	ug/L	6	30	
2-Hexanone	0.1545	0.1516	25.00	24.52	ug/L	-2	40	
1,3-Dichloropropane	0.3404	0.3530	25.00	25.93	ug/L	4	30	
Tetrachloroethene	0.1384	0.1487	25.00	26.86	ug/L	7	30	
Dibromochloromethane	0.1955	0.2095	25.00	26.79	ug/L	7	30	
1,2-Dibromoethane	0.1890	0.1989	25.00	26.31	ug/L	5	30	
Chlorobenzene	0.5112	0.5289	25.00	25.86	ug/L	3	30	
1,1,1,2-Tetrachloroethane	0.1625	0.1726	25.00	26.56	ug/L	6	30	
Ethylbenzene	0.8137	0.8499	25.00	26.11	ug/L	4	20	
m,p-Xylenes	0.2816	0.2975	50.00	52.82	ug/L	6	30	
o-Xylene	0.2836	0.2965	25.00	26.14	ug/L	5	30	
Styrene	0.4853	0.5140	25.00	26.48	ug/L	6	30	
Bromoform	0.1281	0.1292	25.00	25.22	ug/L	1	30	
Isopropylbenzene	1.9430	1.9209	25.00	24.72	ug/L	-1	30	
1,1,2,2-Tetrachloroethane	0.8346	0.8274	25.00	24.79	ug/L	-1	30	
1,2,3-Trichloropropane	0.7227	0.7010	25.00	24.25	ug/L	-3	30	
Propylbenzene	2.2344	2.4259	25.00	27.14	ug/L	9	30	
Bromobenzene	0.4963	0.5083	25.00	25.61	ug/L	2	30	
1,3,5-Trimethylbenzene	1.1936	1.2832	25.00	26.88	ug/L	8	30	
2-Chlorotoluene	1.6363	1.7099	25.00	26.12	ug/L	4	30	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
4-Chlorotoluene	1.4484	1.4999	25.00	25.89	ug/L	4	30	
tert-Butylbenzene	1.2187	1.3511	25.00	27.72	ug/L	11	30	m
1,2,4-Trimethylbenzene	1.0781	1.1592	25.00	26.88	ug/L	8	30	
sec-Butylbenzene	1.6623	1.8956	25.00	28.51	ug/L	14	30	
para-Isopropyl Toluene	1.0762	1.1603	25.00	26.95	ug/L	8	30	
1,3-Dichlorobenzene	0.8410	0.8644	25.00	25.69	ug/L	3	30	
1,4-Dichlorobenzene	0.8241	0.8495	25.00	25.77	ug/L	3	30	
n-Butylbenzene	0.8680	0.9998	25.00	28.80	ug/L	15	30	
1,2-Dichlorobenzene	0.8004	0.8486	25.00	26.51	ug/L	6	30	
1,2-Dibromo-3-Chloropropane	0.1149	0.1225	25.00	24.85	ug/L	-1	30	
1,2,4-Trichlorobenzene	0.1961	0.2279	25.00	25.92	ug/L	4	30	
Hexachlorobutadiene	0.1021	0.1480	25.00	33.93	ug/L	**36**	30	v+ ***
Naphthalene	0.5990	0.6484	25.00	27.06	ug/L	8	30	
1,2,3-Trichlorobenzene	0.1797	0.2210	25.00	25.76	ug/L	3	30	
tert-Butyl Alcohol (TBA)	0.0354	0.0346	125.0	122.4	ug/L	-2	30	
Isopropyl Ether (DIPE)	1.4686	1.3234	25.00	22.53	ug/L	-10	30	
Ethyl tert-Butyl Ether (ETBE)	1.1110	1.0957	25.00	24.66	ug/L	-1	30	
Methyl tert-Amyl Ether (TAME)	0.5203	0.4999	25.00	24.02	ug/L	-4	30	
Ethanol	0.0057	0.0055	2500	2450	ug/L	-2	30	
Isopropanol	0.0255	0.0251	250.0	246.1	ug/L	-2	30	
Tetrahydrofuran	0.1208	0.1172	250.0	242.7	ug/L	-3	30	

ISTD (ICAL jcg15)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1223331	1288978	5.37	10.78	10.78	0.01
1,4-Difluorobenzene	2533641	2577506	1.73	11.96	11.96	0.00
Chlorobenzene-d5	2197520	2301719	4.74	15.94	15.94	0.00
1,4-Dichlorobenzene-d4	798026	813562	1.95	18.64	18.64	0.00

+=high bias m=manual integration v=ICV

CURTIS & TOMPKINS SPIKE USER REPORT FOR EPA 8260B

Inst : MSVOA09 Run Name: QC332713 IDF : 1.0
Seqnum : 486118544004 File : icn04 Time : 23-MAR-2006 09:19
Cal : 486109916001 Caldate : 17-MAR-2006 Caltype : WATER
Standards: S2902 (10000X), S2953 (10000X), S2616 (10000X), S2743 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1-Dichloroethene	0.9965	0.9735	25.00	24	ug/L	-2	20	0.0500	
Benzene	2.8066	2.5664	25.00	23	ug/L	-9	30	0.0500	
Trichloroethene	0.6712	0.6431	25.00	24	ug/L	-4	30	0.0500	
Toluene	1.6021	1.5009	25.00	23	ug/L	-6	20	0.0500	
Chlorobenzene	2.2545	2.2274	25.00	25	ug/L	-1	30	0.3000	
Freon 12	1.4365	1.3068	25.00	23	ug/L	-9	30	0.0500	
Chloromethane	2.1612	1.7938	25.00	21	ug/L	-17	30	0.1000	
Vinyl Chloride	1.7031	1.5112	25.00	22	ug/L	-11	20	0.0500	
Bromomethane	0.6595	0.5043	25.00	17	ug/L	**-33**	30	0.0500	c- ***
Chloroethane	0.9451	0.8401	25.00	22	ug/L	-11	30	0.0500	
Trichlorofluoromethane	1.7287	1.6024	25.00	23	ug/L	-7	30	0.0500	
Acetone	0.4709	0.3465	25.00	18	ug/L	-26	40	0.0500	
Freon 113	1.0231	0.9682	25.00	24	ug/L	-5	30	0.0500	
Methylene Chloride	1.3775	1.2961	25.00	24	ug/L	-6	30	0.0500	
MTBE	3.4925	3.1159	25.00	22	ug/L	-11	30	0.0500	
Carbon Disulfide	4.3656	3.3551	25.00	19	ug/L	**-23**	30	0.0500	!c- !v-
trans-1,2-Dichloroethene	1.2317	1.1487	25.00	23	ug/L	-7	30	0.0500	
Vinyl Acetate	3.0384	2.1549	25.00	18	ug/L	-29	40	0.0500	
1,1-Dichloroethane	2.2257	2.0607	25.00	23	ug/L	-7	30	0.1000	
2-Butanone	0.6669	0.5703	25.00	21	ug/L	-14	40	0.0500	
cis-1,2-Dichloroethene	1.3556	1.2738	25.00	23	ug/L	-6	30	0.0500	
2,2-Dichloropropane	1.3257	1.4029	25.00	26	ug/L	6	30	0.0500	
Chloroform	2.0806	1.9011	25.00	23	ug/L	-9	20	0.0500	
Bromochloromethane	0.6496	0.6326	25.00	24	ug/L	-3	30	0.0500	
1,1,1-Trichloroethane	1.4044	1.3173	25.00	23	ug/L	-6	30	0.0500	
1,1-Dichloropropene	0.8558	0.8464	25.00	25	ug/L	-1	30	0.0500	
Carbon Tetrachloride	0.6433	0.6514	25.00	25	ug/L	1	30	0.0500	
1,2-Dichloroethane	0.8153	0.8017	25.00	25	ug/L	-2	30	0.0500	
1,2-Dichloropropane	0.7792	0.7369	25.00	24	ug/L	-5	20	0.0500	
Bromodichloromethane	0.8640	0.8947	25.00	26	ug/L	4	30	0.0500	
Dibromomethane	0.4927	0.4760	25.00	24	ug/L	-3	30	0.0500	
4-Methyl-2-Pentanone	0.7442	0.6726	25.00	23	ug/L	-10	40	0.0500	
cis-1,3-Dichloropropene	1.1472	1.1533	25.00	25	ug/L	1	30	0.0500	
trans-1,3-Dichloropropene	0.9950	0.9445	25.00	24	ug/L	-5	30	0.0500	
1,1,2-Trichloroethane	0.3494	0.3438	25.00	25	ug/L	-2	30	0.0500	
2-Hexanone	0.6248	0.5716	25.00	23	ug/L	-9	40	0.0500	
1,3-Dichloropropane	1.3691	1.4129	25.00	26	ug/L	3	30	0.0500	
Tetrachloroethene	0.6915	0.7108	25.00	26	ug/L	3	30	0.0500	
Dibromochloromethane	0.8482	0.9129	25.00	27	ug/L	8	30	0.0500	
1,2-Dibromoethane	0.7115	0.6979	25.00	25	ug/L	-2	30	0.0500	
2-Chloroethylvinylether	0.2942	0.3284	25.00	28	ug/L	12	40	0.0500	
1,1,1,2-Tetrachloroethane	0.7446	0.7537	25.00	25	ug/L	1	30	0.0500	
Ethylbenzene	3.5927	3.6240	25.00	25	ug/L	1	20	0.0500	
m,p-Xylenes	1.3333	1.3791	50.00	52	ug/L	3	30	0.0500	
o-Xylene	1.3520	1.3642	25.00	25	ug/L	1	30	0.0500	
Styrene	2.3364	2.3900	25.00	26	ug/L	2	30	0.0500	
Bromoform	0.6160	0.6059	25.00	25	ug/L	-2	30	0.1000	
Isopropylbenzene	7.0825	6.7757	25.00	24	ug/L	-4	30	0.0500	
1,1,2,2-Tetrachloroethane	2.4844	2.4507	25.00	25	ug/L	-1	30	0.3000	

03/24/06 3/23/06

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.6147	0.6186	25.00	25	ug/L	1	30	0.0500	
Propylbenzene	8.9430	9.3564	25.00	26	ug/L	5	30	0.0500	
Bromobenzene	2.0132	1.9523	25.00	24	ug/L	-3	30	0.0500	
1,3,5-Trimethylbenzene	5.7711	5.9787	25.00	26	ug/L	4	30	0.0500	
2-Chlorotoluene	6.1658	6.2912	25.00	26	ug/L	2	30	0.0500	
4-Chlorotoluene	5.8270	5.8199	25.00	25	ug/L	0	30	0.0500	
tert-Butylbenzene	4.5522	4.7634	25.00	26	ug/L	5	30	0.0500	
1,2,4-Trimethylbenzene	5.8579	6.0039	25.00	26	ug/L	2	30	0.0500	
sec-Butylbenzene	7.0559	7.8126	25.00	28	ug/L	11	30	0.0500	
para-Isopropyl Toluene	5.3578	5.7162	25.00	27	ug/L	7	30	0.0500	
1,3-Dichlorobenzene	3.5204	3.5286	25.00	25	ug/L	0	30	0.0500	
1,4-Dichlorobenzene	3.6559	3.6928	25.00	25	ug/L	1	30	0.0500	
n-Butylbenzene	4.9201	5.6555	25.00	29	ug/L	15	30	0.0500	
1,2-Dichlorobenzene	3.3290	3.3970	25.00	26	ug/L	2	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.3471	0.3496	25.00	25	ug/L	1	30	0.0500	
1,2,4-Trichlorobenzene	1.4560	1.6926	25.00	26	ug/L	3	30	0.0500	
Hexachlorobutadiene	0.5167	0.6347	25.00	33	ug/L	**32**	30	0.0500	c+ v+ ***
Naphthalene	3.4020	4.0706	25.00	25	ug/L	-1	30	0.0500	
1,2,3-Trichlorobenzene	1.2641	1.5450	25.00	26	ug/L	2	30	0.0500	
tert-Butyl Alcohol (TBA)	0.1024	0.0878	125.0	95	ug/L	**-24**	30	0.0050	!c-
Isopropyl Ether (DIPE)	5.0586	4.6013	25.00	23	ug/L	-9	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	3.7283	3.7615	25.00	25	ug/L	1	30	0.0500	
Methyl tert-Amyl Ether (TAME)	1.9326	1.8937	25.00	24	ug/L	-2	30	0.0500	
Isopropanol	0.0859	0.0721	250.0	210	ug/L	-16	30	0.0050	
Ethanol	0.0194	0.0162	2500	2100	ug/L	-16	30	5.0E-4	
Cyclohexanone	0.2099	0.0549	250.0	66	ug/L	**-74**	30	0.0050	c- v- ***
Tetrahydrofuran	0.3823	0.3452	250.0	230	ug/L	-10	30	0.0050	
Tetramethyl THF	1.3947	1.2951	25.00	23	ug/L	-7	30	0.0500	
Dibromofluoromethane	0.5737	0.5633	50.00	49	ug/L	-2	30	0.0500	
1,2-Dichloroethane-d4	0.3071	0.3205	50.00	52	ug/L	4	30	0.0500	
Toluene-d8	0.9636	0.9483	50.00	49	ug/L	-2	30	0.0500	
Bromofluorobenzene	1.1428	1.1269	50.00	49	ug/L	-1	30	0.0500	

ISTD (ICAL ich14)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	451410	508109	12.56	11.19	11.16	-0.03
1,4-Difluorobenzene	765948	851213	11.13	12.43	12.41	-0.02
Chlorobenzene-d5	614102	647497	5.44	16.99	16.97	-0.02
1,4-Dichlorobenzene-d4	274931	293770	6.85	19.81	19.79	-0.02

!=warning +=high bias -=low bias c=CCV v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA10 Run Name: 20PPB IDF : 1.0
Seqnum : 496118674002 File : jcn02 Time : 23-MAR-2006 10:12
Cal : 496108554002 Caldate : 16-MAR-2006 Caltype : WATER
Standards: S2783 (25000X), S2844 (25000X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.3069	0.2929	20.00	19.09	ug/L	-5	30	0.0500	
Chloromethane	0.5445	0.5585	20.00	20.51	ug/L	3	30	0.1000	
Vinyl Chloride	0.4778	0.4852	20.00	20.31	ug/L	2	20	0.0500	
Bromomethane	0.1994	0.1722	20.00	16.44	ug/L	-18	30	0.0500	
Chloroethane	0.2984	0.2949	20.00	19.76	ug/L	-1	30	0.0500	
Trichlorofluoromethane	0.4396	0.4045	20.00	18.41	ug/L	-8	30	0.0500	
Acetone	0.1369	0.1375	20.00	20.09	ug/L	0	40	0.0500	
Freon 113	0.2650	0.2258	20.00	17.63	ug/L	-12	30	0.0500	
1,1-Dichloroethene	0.2868	0.2560	20.00	17.85	ug/L	-11	20	0.0500	
Methylene Chloride	0.4467	0.3887	20.00	17.40	ug/L	-13	30	0.0500	
Carbon Disulfide	1.3169	1.1243	20.00	17.07	ug/L	-15	30	0.0500	
MTBE	1.1005	1.0508	20.00	19.10	ug/L	-5	30	0.0500	
trans-1,2-Dichloroethene	0.3627	0.3349	20.00	18.47	ug/L	-8	30	0.0500	
Vinyl Acetate	1.0757	0.3875	20.00	8.054	ug/L	**-60**	40	0.0500	c- ***
1,1-Dichloroethane	0.6622	0.6273	20.00	18.95	ug/L	-5	30	0.1000	
2-Butanone	0.2084	0.1944	20.00	18.66	ug/L	-7	40	0.0500	
2,2-Dichloropropane	0.4068	0.2839	20.00	13.96	ug/L	**-30**	30	0.0500	!c-
cis-1,2-Dichloroethene	0.4072	0.3816	20.00	18.74	ug/L	-6	30	0.0500	
Chloroform	0.6201	0.5985	20.00	19.30	ug/L	-3	20	0.0500	
Bromochloromethane	0.1997	0.1969	20.00	19.72	ug/L	-1	30	0.0500	
1,1,1-Trichloroethane	0.4032	0.3862	20.00	19.15	ug/L	-4	30	0.0500	
1,1-Dichloropropene	0.2124	0.1998	20.00	18.81	ug/L	-6	30	0.0500	
Carbon Tetrachloride	0.1456	0.1422	20.00	19.54	ug/L	-2	30	0.0500	
1,2-Dichloroethane	0.2324	0.2269	20.00	19.52	ug/L	-2	30	0.0500	
Benzene	0.6901	0.6976	20.00	20.22	ug/L	1	30	0.0500	
Trichloroethene	0.1736	0.1821	20.00	20.98	ug/L	5	30	0.0500	
1,2-Dichloropropane	0.2071	0.2071	20.00	20.00	ug/L	0	20	0.0500	
Bromodichloromethane	0.2279	0.2258	20.00	19.82	ug/L	-1	30	0.0500	
Dibromomethane	0.1337	0.1304	20.00	19.51	ug/L	-2	30	0.0500	
4-Methyl-2-Pentanone	0.2200	0.2158	20.00	19.62	ug/L	-2	40	0.0500	
Tetramethyl THF	0.4006	0.3883	20.00	19.38	ug/L	-3	30	0.0500	
cis-1,3-Dichloropropene	0.2997	0.2878	20.00	19.20	ug/L	-4	30	0.0500	
Toluene	0.3938	0.4138	20.00	21.01	ug/L	5	20	0.0500	
trans-1,3-Dichloropropene	0.2548	0.2479	20.00	19.46	ug/L	-3	30	0.0500	
1,1,2-Trichloroethane	0.0975	0.0958	20.00	19.65	ug/L	-2	30	0.0500	
2-Hexanone	0.1545	0.1438	20.00	18.62	ug/L	-7	40	0.0500	
1,3-Dichloropropane	0.3404	0.3320	20.00	19.51	ug/L	-2	30	0.0500	
Tetrachloroethene	0.1384	0.1416	20.00	20.47	ug/L	2	30	0.0500	
Dibromochloromethane	0.1955	0.1937	20.00	19.82	ug/L	-1	30	0.0500	
1,2-Dibromoethane	0.1890	0.1953	20.00	20.66	ug/L	3	30	0.0500	
Chlorobenzene	0.5112	0.5101	20.00	19.96	ug/L	0	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1625	0.1714	20.00	21.10	ug/L	6	30	0.0500	
Ethylbenzene	0.8137	0.8113	20.00	19.94	ug/L	0	20	0.0500	
m,p-Xylenes	0.2816	0.2775	40.00	39.42	ug/L	-1	30	0.0500	
o-Xylene	0.2836	0.2841	20.00	20.03	ug/L	0	30	0.0500	
Styrene	0.4853	0.4745	20.00	19.56	ug/L	-2	30	0.0500	
Bromoform	0.1281	0.1260	20.00	19.68	ug/L	-2	30	0.1000	
Isopropylbenzene	1.9430	1.9735	20.00	20.31	ug/L	2	30	0.0500	
1,1,2,2-Tetrachloroethane	0.8346	0.7690	20.00	18.43	ug/L	-8	30	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.7227	0.6918	20.00	19.14	ug/L	-4	30	0.0500	
Propylbenzene	2.2344	2.1948	20.00	19.65	ug/L	-2	30	0.0500	
Bromobenzene	0.4963	0.5285	20.00	21.30	ug/L	6	30	0.0500	
1,3,5-Trimethylbenzene	1.1936	1.1503	20.00	19.27	ug/L	-4	30	0.0500	
2-Chlorotoluene	1.6363	1.6393	20.00	20.04	ug/L	0	30	0.0500	
4-Chlorotoluene	1.4484	1.4318	20.00	19.77	ug/L	-1	30	0.0500	
tert-Butylbenzene	1.2187	1.1432	20.00	18.76	ug/L	-6	30	0.0500	
1,2,4-Trimethylbenzene	1.0781	1.0554	20.00	19.58	ug/L	-2	30	0.0500	
sec-Butylbenzene	1.6623	1.6777	20.00	20.19	ug/L	1	30	0.0500	
para-Isopropyl Toluene	1.0762	1.0704	20.00	19.89	ug/L	-1	30	0.0500	
1,3-Dichlorobenzene	0.8410	0.8463	20.00	20.13	ug/L	1	30	0.0500	
1,4-Dichlorobenzene	0.8241	0.8139	20.00	19.75	ug/L	-1	30	0.0500	
n-Butylbenzene	0.8680	0.8287	20.00	19.09	ug/L	-5	30	0.0500	
1,2-Dichlorobenzene	0.8004	0.8381	20.00	20.94	ug/L	5	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1149	0.1242	20.00	19.98	ug/L	0	30	0.0500	
1,2,4-Trichlorobenzene	0.1961	0.2152	20.00	19.90	ug/L	0	30	0.0500	
Hexachlorobutadiene	0.1021	0.1119	20.00	20.67	ug/L	3	30	0.0500	
Naphthalene	0.5990	0.5586	20.00	18.65	ug/L	-7	30	0.0500	
1,2,3-Trichlorobenzene	0.1797	0.1945	20.00	18.56	ug/L	-7	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0354	0.0332	200.0	187.4	ug/L	-6	30	0.0050	
Isopropyl Ether (DIPE)	1.4686	1.3866	20.00	18.88	ug/L	-6	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.1110	1.0716	20.00	19.29	ug/L	-4	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.5203	0.5167	20.00	19.86	ug/L	-1	30	0.0500	
Ethanol	0.0057	0.0051	2000	1795	ug/L	-10	30	5.0E-4	
Isopropanol	0.0255	0.0245	200.0	191.6	ug/L	-4	30	0.0050	
Tetrahydrofuran	0.1208	0.1176	200.0	194.7	ug/L	-3	30	0.0050	
Dibromofluoromethane	0.7230	0.7094	50.00	49.06	ug/L	-2	30	0.0500	
1,2-Dichloroethane-d4	0.3764	0.3762	50.00	49.98	ug/L	0	30	0.0500	
Trifluorotoluene	0.1728	0.1735	20.00	20.09	ug/L	0	30	0.0500	
Toluene-d8	1.0652	1.0731	50.00	50.37	ug/L	1	30	0.0500	
Bromofluorobenzene	1.4167	1.4379	50.00	50.75	ug/L	1	30	0.0500	

ISTD (ICAL jcg15)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1223331	1320473	7.94	10.78	10.75	-0.03
1,4-Difluorobenzene	2533641	2635152	4.01	11.96	11.93	-0.03
Chlorobenzene-d5	2197520	2337329	6.36	15.94	15.93	-0.01
1,4-Dichlorobenzene-d4	798026	789547	-1.06	18.64	18.63	-0.01

3/24/02

3/24/02

!=warning -=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA10 Run Name: 15PPB IDF : 1.0
Seqnum : 496118674009 File : jcn09 Time : 23-MAR-2006 14:10
Cal : 496108554002 Caldate : 16-MAR-2006 Caltype : WATER
Standards: S2860 (33330X), S2844 (33330X), S2707 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.3069	0.3354	15.00	16.39	ug/L	9	30	0.0500	
Chloromethane	0.5445	0.5259	15.00	14.49	ug/L	-3	30	0.1000	
Vinyl Chloride	0.4778	0.4711	15.00	14.79	ug/L	-1	20	0.0500	
Bromomethane	0.1994	0.1635	15.00	12.07	ug/L	-20	30	0.0500	
Chloroethane	0.2984	0.2774	15.00	13.94	ug/L	-7	30	0.0500	
Trichlorofluoromethane	0.4396	0.4204	15.00	14.34	ug/L	-4	30	0.0500	
Acetone	0.1369	0.1093	15.00	11.98	ug/L	-20	40	0.0500	
Freon 113	0.2650	0.2145	15.00	12.44	ug/L	-17	30	0.0500	
1,1-Dichloroethene	0.2868	0.2369	15.00	12.39	ug/L	-17	20	0.0500	
Methylene Chloride	0.4467	0.3676	15.00	12.34	ug/L	-18	30	0.0500	
Carbon Disulfide	1.3169	1.0637	15.00	12.12	ug/L	-19	30	0.0500	
MTBE	1.1005	0.9730	15.00	13.26	ug/L	-12	30	0.0500	
trans-1,2-Dichloroethene	0.3627	0.3007	15.00	12.43	ug/L	-17	30	0.0500	
Vinyl Acetate	1.0757	0.9246	15.00	14.05	ug/L	-6	40	0.0500	m
1,1-Dichloroethane	0.6622	0.5595	15.00	12.67	ug/L	-16	30	0.1000	
2-Butanone	0.2084	0.1870	15.00	13.46	ug/L	-10	40	0.0500	
2,2-Dichloropropane	0.4068	0.3683	15.00	13.58	ug/L	-9	30	0.0500	
cis-1,2-Dichloroethene	0.4072	0.3480	15.00	12.82	ug/L	-15	30	0.0500	
Chloroform	0.6201	0.5453	15.00	13.19	ug/L	-12	20	0.0500	
Bromochloromethane	0.1997	0.1834	15.00	13.77	ug/L	-8	30	0.0500	
1,1,1-Trichloroethane	0.4032	0.3405	15.00	12.67	ug/L	-16	30	0.0500	
1,1-Dichloropropene	0.2124	0.1834	15.00	12.95	ug/L	-14	30	0.0500	
Carbon Tetrachloride	0.1456	0.1322	15.00	13.63	ug/L	-9	30	0.0500	
1,2-Dichloroethane	0.2324	0.2082	15.00	13.43	ug/L	-10	30	0.0500	
Benzene	0.6901	0.6161	15.00	13.39	ug/L	-11	30	0.0500	
Trichloroethene	0.1736	0.1540	15.00	13.31	ug/L	-11	30	0.0500	
1,2-Dichloropropane	0.2071	0.1837	15.00	13.30	ug/L	-11	20	0.0500	
Bromodichloromethane	0.2279	0.2075	15.00	13.65	ug/L	-9	30	0.0500	
Dibromomethane	0.1337	0.1270	15.00	14.25	ug/L	-5	30	0.0500	
4-Methyl-2-Pentanone	0.2200	0.2333	15.00	15.90	ug/L	6	40	0.0500	
Tetramethyl THF	0.4006	0.3504	15.00	13.12	ug/L	-13	30	0.0500	
cis-1,3-Dichloropropene	0.2997	0.2815	15.00	14.09	ug/L	-6	30	0.0500	
Toluene	0.3938	0.3662	15.00	13.95	ug/L	-7	20	0.0500	
trans-1,3-Dichloropropene	0.2548	0.2480	15.00	14.60	ug/L	-3	30	0.0500	
1,1,2-Trichloroethane	0.0975	0.0895	15.00	13.77	ug/L	-8	30	0.0500	
2-Hexanone	0.1545	0.1446	15.00	14.03	ug/L	-6	40	0.0500	
1,3-Dichloropropane	0.3404	0.3128	15.00	13.79	ug/L	-8	30	0.0500	
Tetrachloroethene	0.1384	0.1355	15.00	14.69	ug/L	-2	30	0.0500	
Dibromochloromethane	0.1955	0.1894	15.00	14.54	ug/L	-3	30	0.0500	
1,2-Dibromoethane	0.1890	0.1844	15.00	14.64	ug/L	-2	30	0.0500	
Chlorobenzene	0.5112	0.4762	15.00	13.97	ug/L	-7	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1625	0.1615	15.00	14.91	ug/L	-1	30	0.0500	
Ethylbenzene	0.8137	0.7606	15.00	14.02	ug/L	-7	20	0.0500	
m,p-Xylenes	0.2816	0.2626	30.00	27.98	ug/L	-7	30	0.0500	
o-Xylene	0.2836	0.2691	15.00	14.23	ug/L	-5	30	0.0500	
Styrene	0.4853	0.4675	15.00	14.45	ug/L	-4	30	0.0500	
Bromoform	0.1281	0.1265	15.00	14.81	ug/L	-1	30	0.1000	
Isopropylbenzene	1.9430	1.8051	15.00	13.94	ug/L	-7	30	0.0500	
1,1,2,2-Tetrachloroethane	0.8346	0.8103	15.00	14.56	ug/L	-3	30	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.7227	0.6596	15.00	13.69	ug/L	-9	30	0.0500	
Propylbenzene	2.2344	2.0270	15.00	13.61	ug/L	-9	30	0.0500	
Bromobenzene	0.4963	0.4869	15.00	14.72	ug/L	-2	30	0.0500	
1,3,5-Trimethylbenzene	1.1936	1.1130	15.00	13.99	ug/L	-7	30	0.0500	
2-Chlorotoluene	1.6363	1.5125	15.00	13.87	ug/L	-8	30	0.0500	
4-Chlorotoluene	1.4484	1.3191	15.00	13.66	ug/L	-9	30	0.0500	
tert-Butylbenzene	1.2187	1.0604	15.00	13.05	ug/L	-13	30	0.0500	
1,2,4-Trimethylbenzene	1.0781	1.0385	15.00	14.45	ug/L	-4	30	0.0500	
sec-Butylbenzene	1.6623	1.5413	15.00	13.91	ug/L	-7	30	0.0500	
para-Isopropyl Toluene	1.0762	1.0138	15.00	14.13	ug/L	-6	30	0.0500	
1,3-Dichlorobenzene	0.8410	0.8237	15.00	14.69	ug/L	-2	30	0.0500	
1,4-Dichlorobenzene	0.8241	0.7905	15.00	14.39	ug/L	-4	30	0.0500	
n-Butylbenzene	0.8680	0.8029	15.00	13.87	ug/L	-8	30	0.0500	
1,2-Dichlorobenzene	0.8004	0.7784	15.00	14.59	ug/L	-3	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1149	0.1167	15.00	13.82	ug/L	-8	30	0.0500	
1,2,4-Trichlorobenzene	0.1961	0.2152	15.00	15.18	ug/L	1	30	0.0500	
Hexachlorobutadiene	0.1021	0.1199	15.00	16.57	ug/L	10	30	0.0500	
Naphthalene	0.5990	0.5815	15.00	14.56	ug/L	-3	30	0.0500	
1,2,3-Trichlorobenzene	0.1797	0.1973	15.00	14.41	ug/L	-4	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0354	0.0337	150.0	143.0	ug/L	-5	30	0.0050	
Isopropyl Ether (DIPE)	1.4686	1.2408	15.00	12.67	ug/L	-16	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.1110	0.9803	15.00	13.24	ug/L	-12	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.5203	0.4875	15.00	14.05	ug/L	-6	30	0.0500	
Ethanol	0.0057	0.0050	1500	1315	ug/L	-12	30	5.0E-4	
Isopropanol	0.0255	0.0240	150.0	141.1	ug/L	-6	30	0.0050	
Tetrahydrofuran	0.1208	0.1047	150.0	130.1	ug/L	-13	30	0.0050	
Dibromofluoromethane	0.7230	0.6716	50.00	46.45	ug/L	-7	30	0.0500	
1,2-Dichloroethane-d4	0.3764	0.3664	50.00	48.67	ug/L	-3	30	0.0500	
Trifluorotoluene	0.1728	0.1664	15.00	14.45	ug/L	-4	30	0.0500	
Toluene-d8	1.0652	1.0426	50.00	48.94	ug/L	-2	30	0.0500	
Bromofluorobenzene	1.4167	1.3712	50.00	48.39	ug/L	-3	30	0.0500	

ISTD (ICAL jcg15)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1223331	1274214	4.16	10.78	10.76	-0.02
1,4-Difluorobenzene	2533641	2477478	-2.22	11.96	11.94	-0.02
Chlorobenzene-d5	2197520	2172863	-1.12	15.94	15.93	-0.01
1,4-Dichlorobenzene-d4	798026	773844	-3.03	18.64	18.63	-0.01

03/24/06

3/24/06

m=manual integration

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 23-MAR-2006
Sequence: 486118544 (icn)
Instrument ID: MSVOA09

ICAL Filename: ich14
Date Analyzed: 17-MAR-2006
Time Analyzed: 16:48

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	451410	11.19	765948	12.43	614102	16.99	274931	19.81
LOWER LIMIT	225705	10.69	382974	11.93	307051	16.49	137466	19.31
UPPER LIMIT	902820	11.69	1531896	12.93	1228204	17.49	549862	20.31

TYPE	SAMPLE	#								
CCV/BS	QC332713	004	508109	11.16	851213	12.41	647497	16.97	293770	19.79
BSD	QC332714	005	503134	11.17	843600	12.41	653509	16.97	293959	19.79
BLANK	QC332715	007	485326	11.18	829722	12.42	642552	16.97	273595	19.80
SAMPLE	185696-001	008	461677	11.16	795837	12.41	605984	16.97	257146	19.79
SAMPLE	185662-023	009	464250	11.17	796921	12.41	609439	16.97	253376	19.79
SAMPLE	185679-018	010	455906	11.17	793465	12.41	596775	16.97	257957	19.79
SAMPLE	185679-022	011	452288	11.17	776997	12.41	594220	16.98	252135	19.80
SAMPLE	185679-019	012	436797	11.17	764802	12.41	582282	16.97	248386	19.79
SAMPLE	185696-002	013	439221	11.17	772282	12.42	586581	16.97	247124	19.79
SAMPLE	185696-003	014	454014	11.17	797156	12.41	604412	16.97	258320	19.79
SAMPLE	185696-004	015	457389	11.18	793068	12.42	599157	16.98	250530	19.80
SAMPLE	185696-005	016	446663	11.17	774388	12.42	594918	16.97	247445	19.79
SAMPLE	185719-001	017	430364	11.17	750942	12.42	572699	16.97	255172	19.79
SAMPLE	185719-002	018	454321	11.17	782226	12.41	602208	16.97	260036	19.79
SAMPLE	185679-004	019	451424	11.18	779853	12.42	591590	16.98	252617	19.80
SAMPLE	185679-005	020	451275	11.17	781112	12.41	593783	16.97	251473	19.79
SAMPLE	185679-008	021	441144	11.17	765357	12.42	581257	16.97	251590	19.79
SAMPLE	185679-009	022	450579	11.18	786543	12.42	612983	16.98	254116	19.80

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 23-MAR-2006
Sequence: 496118674 (jcn)
Instrument ID: MSVOA10

ICAL Filename: jcg15
Date Analyzed: 16-MAR-2006
Time Analyzed: 17:35

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	1223331	10.78	2533641	11.96	2197520	15.94	798026	18.64
LOWER LIMIT	611666	10.28	1266821	11.46	1098760	15.44	399013	18.14
UPPER LIMIT	2446662	11.28	5067282	12.46	4395040	16.44	1596052	19.14

TYPE	SAMPLE	#								
CCV	20PPB	002	1320473	10.75	2635152	11.93	2337329	15.93	789547	18.63
BS	QC332756	004	1277323	10.76	2516249	11.94	2178231	15.93	808729	18.63
BSD	QC332757	005	1254672	10.76	2479842	11.94	2182394	15.93	811274	18.63
BS	QC332758	006	1247782	10.76	2441031	11.94	2159964	15.93	793177	18.64
BSD	QC332759	007	1271687	10.77	2475500	11.94	2171599	15.94	796694	18.63
CCV	15PPB	009	1274214	10.76	2477478	11.94	2172863	15.93	773844	18.63
BLANK	QC332760	012	1243149	10.75	2423490	11.94	2146405	15.93	717086	18.63
SAMPLE	185679-001	013	1260197	10.76	2413737	11.94	2117802	15.93	719749	18.64
SAMPLE	185679-002	014	1244359	10.76	2419051	11.94	2118531	15.93	723704	18.63
SAMPLE	185679-003	015	1238118	10.76	2404130	11.94	2097202	15.93	712879	18.63
SAMPLE	185630-005	016	1230615	10.76	2395249	11.94	2105505	15.94	729466	18.64
SAMPLE	185703-003	017	1202714	10.76	2322554	11.94	2061037	15.94	703734	18.64
SAMPLE	185703-004	018	1237056	10.76	2418646	11.94	2118990	15.93	695911	18.64
SAMPLE	185703-001	019	1187182	10.76	2288974	11.93	2026002	15.93	707085	18.63
SAMPLE	185703-002	020	1206354	10.75	2374294	11.93	2064035	15.93	703553	18.63
SAMPLE	185703-005	021	1256272	10.75	2430544	11.93	2108496	15.93	706025	18.63
SAMPLE	185703-006	022	1249522	10.75	2427971	11.93	2148205	15.93	707744	18.63
SAMPLE	185703-007	023	1259642	10.75	2420068	11.93	2128192	15.93	715529	18.63
SAMPLE	185742-004	024	1234543	10.76	2413337	11.94	2114282	15.94	706736	18.63
SAMPLE	185742-001	025	1207077	10.75	2355885	11.93	2103258	15.93	722234	18.64
SAMPLE	185742-002	026	1222687	10.76	2380319	11.94	2089697	15.93	784897	18.63
SAMPLE	185742-003	027	1255685	10.76	2416020	11.95	2123705	15.93	734407	18.63
SAMPLE	185610-001	028	1214411	10.76	2363477	11.95	2071401	15.93	715957	18.63
SAMPLE	185610-002	029	1219259	10.77	2348016	11.94	2074280	15.93	725543	18.63

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 496108554 Instrument: MSVOA10 HP GCMS VOA 10 Begun: 16-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	jcg01	TUN	BFB			16-MAR-2006 09:14	1.0					1	
002	jcg02	CCV	30PPB			16-MAR-2006 09:31	1.0	6	5000			2 3 4 5 cc-	
003	jcg03	X	IB			16-MAR-2006 10:41	1.0					5	
004	jcg04	X	IB			16-MAR-2006 11:16	1.0					5	
005	jcg05	X	IB			16-MAR-2006 11:51	1.0					5	
006	jcg06	TUN	BFB			16-MAR-2006 12:38	1.0					1	
007	jcg07	X	IB			16-MAR-2006 12:55	1.0					5	
008	jcg08	X	CALIB IB			16-MAR-2006 13:30	1.0					5	
009	jcg09	ICAL	0.25/0.5PPB			16-MAR-2006 14:04	1.0					2 3 4 5	
010	jcg10	ICAL	0.5/1PPB			16-MAR-2006 14:39	1.0					2 3 4 5	
011	jcg11	ICAL	2PPB			16-MAR-2006 15:14	1.0					2 3 4 5	
012	jcg12	ICAL	5PPB			16-MAR-2006 15:49	1.0					2 3 4 5	
013	jcg13	ICAL	10PPB			16-MAR-2006 16:25	1.0					2 3 4 5	
014	jcg14	ICAL	20PPB			16-MAR-2006 17:00	1.0					2 3 4 5	
015	jcg15	ICAL	50PPB			16-MAR-2006 17:35	1.0					2 3 4 5	194
016	jcg16	ICAL	75PPB			16-MAR-2006 18:10	1.0					2 3 4 5	
017	jcg17	ICAL	100PPB			16-MAR-2006 18:45	1.0					2 3 4 5	
018	jcg18	ICV				16-MAR-2006 19:20	1.0		5000			6 5	
019	jcg19	ICV	NP			16-MAR-2006 19:55	1.0	1	5000			7 8 5	
020	jcg20	X	IB			16-MAR-2006 20:30	1.0					5	

Stds used: 1=S2327 2=S2783 3=S2844 4=S2410 5=S2707 6=S2807 7=S2902 8=S2616
Flags used: -=low bias cc=CCV CCC failure

Analyst: _____ Date: 3/28/02

03/17/02

8260/6A5DX w 1 07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 486109916 Instrument: MSVOA09 HP GCMS VOA 09 Begun: 17-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	ich01	X	IB			17-MAR-2006 07:56	1.0					1	
002	ich02	TUN	BFB			17-MAR-2006 09:20	1.0					2	
003	ich03	X	LOW PT			17-MAR-2006 09:37	1.0					1	
004	ich04	X	LOW PT			17-MAR-2006 10:11	1.0					1	
005	ich05	X	IB			17-MAR-2006 11:17	1.0					1	
006	ich06	TUN	BFB			17-MAR-2006 12:08	1.0					2	
007	ich07	X	CALIB IB			17-MAR-2006 12:44	1.0					1	
008	ich08	ICAL	0.25/0.5PPB			17-MAR-2006 13:19	1.0					3 4 5 1	
009	ich09	ICAL	0.5/1PPB			17-MAR-2006 13:53	1.0					3 4 5 1	
010	ich10	ICAL	2PPB			17-MAR-2006 14:29	1.0					3 4 5 1	
011	ich11	ICAL	5PPB			17-MAR-2006 15:04	1.0					3 4 5 1	
012	ich12	ICAL	10PPB			17-MAR-2006 15:39	1.0					3 4 5 1	
013	ich13	ICAL	20PPB			17-MAR-2006 16:14	1.0					3 4 5 1	
014	ich14	ICAL	50PPB			17-MAR-2006 16:48	1.0					3 4 5 1	
015	ich15	ICAL	75PPB			17-MAR-2006 17:25	1.0					3 4 5 1	195
016	ich16	ICAL	100PPB			17-MAR-2006 17:59	1.0					3 4 5 1	
017	ich17	ICV	25PPB			17-MAR-2006 18:33	1.0		5000			6 1	
018	ich18	ICV	25PPB			17-MAR-2006 19:07	1.0	2	5000			7 8 1	
019	ich19	X	IB			17-MAR-2006 19:42	1.0					1	
020	ich20	X	IB			17-MAR-2006 20:17	1.0					1	
021	ich21	X	IB			17-MAR-2006 20:52	1.0					1	

* ICAL - OK
- high pt dropped for TBA
- 2 high pts dropped for Hexclbzn

* ICV - Hexclbzn ↑, Cisclbzn ↓
USACE - CS2 ↓

(*) no secondary ion for TBA in low pt

Stds used: 1=S2743 2=S2327 3=S2844 4=S2783 5=S2410 6=S2953 7=S2902 8=S2616

Analyst: [illegible] Date: 3/20/06

03/20/06

4, 5, 9, 18, 18, 22

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 486118544 Instrument: MSVOA09 HP GCMS VOA 09 Begun: 23-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	icn01	X	IB			23-MAR-2006 07:44	1.0						1	
002	icn02	TUN	BFB			23-MAR-2006 08:16	1.0						2	
003	icn03	X	40PPB			23-MAR-2006 08:33	1.0	2		5000			3 4 5 1	1:HCBU=51.7934
004	icn04	CCV/BS	QC332713	111601	Water	23-MAR-2006 09:19	1.0	3		5000			6 7 8 1	
005	icn05	BSD	QC332714	111601	Water	23-MAR-2006 09:53	1.0	3		5000			6 7 8 1	
006	icn06	X	IB			23-MAR-2006 10:28	1.0						1	
007	icn07	BLANK	QC332715	111601	Water	23-MAR-2006 11:07	1.0	3	1	5000			1	
008	icn08	SAMPLE	185696-001	111601	Water	23-MAR-2006 11:42	1.0	1		5000	A	<2	1	
009	icn09	SAMPLE	185662-023	111601	Water	23-MAR-2006 12:16	1.0	1		5000			1 10 min HS	
010	icn10	SAMPLE	185679-018	111601	Water	23-MAR-2006 12:51	1.0	1		5000	B		1	
011	icn11	SAMPLE	185679-022	111601	Water	23-MAR-2006 13:26	1.0			5000			1	
012	icn12	SAMPLE	185679-019	111601	Water	23-MAR-2006 14:01	1.0			5000			1	
013	icn13	SAMPLE	185696-002	111601	Water	23-MAR-2006 14:37	1.0			5000	B		1	
014	icn14	SAMPLE	185696-003	111601	Water	23-MAR-2006 15:15	1.0			5000			1	
015	icn15	SAMPLE	185696-004	111601	Water	23-MAR-2006 15:49	1.0			5000			1	
016	icn16	SAMPLE	185696-005	111601	Water	23-MAR-2006 16:24	1.0	1		5000	A		1	
017	icn17	SAMPLE	185719-001	111601	Water	23-MAR-2006 16:58	1.0			5000	B		1	
018	icn18	SAMPLE	185719-002	111601	Water	23-MAR-2006 17:32	1.0			5000			1	
019	icn19	SAMPLE	185679-004	111601	Water	23-MAR-2006 18:06	1.0	1		5000	C		1	
020	icn20	SAMPLE	185679-005	111601	Water	23-MAR-2006 18:41	1.0			5000			1	
021	icn21	SAMPLE	185679-008	111601	Water	23-MAR-2006 19:18	1.0			5000			1	
022	icn22	SAMPLE	185679-009	111601	Water	23-MAR-2006 19:52	1.0			5000			1	
023	icn23	X	IB			23-MAR-2006 20:26	1.0						1	
024	icn24	X	IB			23-MAR-2006 21:00	1.0						1	
025	icn25	X	IB			23-MAR-2006 21:35	1.0						1	

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03/24/06

Stds used: 1=S2743 2=S2327 3=S2783 4=S2844 5=S2410 6=S2902 7=S2953 8=S2616

Analyst: Bu Date: 3/24/06

1-3

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 496118674 Instrument: MSVOA10 HP GCMS VOA 10 Begun: 23-MAR-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	jcn01	TUN	BFB			23-MAR-2006 09:54	1.0						1	
002	jcn02	CCV	20PPB			23-MAR-2006 10:12	1.0	1		5000			2 3 4	
003	jcn03	CCV	TVH250PPB			23-MAR-2006 10:58	1.0			5000			5 4	
004	jcn04	BS	QC332756	111610	Water	23-MAR-2006 11:37	1.0	3	1	5000			6 7 8 4	
005	jcn05	BSD	QC332757	111610	Water	23-MAR-2006 12:12	1.0	3	1	5000			6 7 8 4	
006	jcn06	BS	QC332758	111610	Water	23-MAR-2006 12:47	1.0			5000			9 4	
007	jcn07	BSD	QC332759	111610	Water	23-MAR-2006 13:22	1.0			5000			9 4	
008	jcn08	TUN	BFB			23-MAR-2006 13:52	1.0						1	
009	jcn09	CCV	15PPB			23-MAR-2006 14:10	1.0			5000			10 3 4	
010	jcn10	CCV	TVH250PPB			23-MAR-2006 14:45	1.0			5000			5 4	
011	jcn11	X	IB			23-MAR-2006 15:20	1.0						4	
012	jcn12	BLANK	QC332760	111610	Water	23-MAR-2006 15:55	1.0	1	1	5000			4	
013	jcn13	SAMPLE	185679-001	111610	Water	23-MAR-2006 16:31	1.0			5000	C	<L	4	
014	jcn14	SAMPLE	185679-002	111610	Water	23-MAR-2006 17:06	1.0			5000			4	
015	jcn15	SAMPLE	185679-003	111610	Water	23-MAR-2006 17:41	1.0			5000			4	
016	jcn16	SAMPLE	185630-005	111610	Water	23-MAR-2006 18:16	12.50			5000	A		4 2ml H.S.	
017	jcn17	SAMPLE	185703-003	111610	Water	23-MAR-2006 18:51	1.0			5000			4	
018	jcn18	SAMPLE	185703-004	111610	Water	23-MAR-2006 19:26	1.0			5000			4	
019	jcn19	SAMPLE	185703-001	111610	Water	23-MAR-2006 20:01	12.50			5000			4 PR 3.7X OD	
020	jcn20	SAMPLE	185703-002	111610	Water	23-MAR-2006 20:37	4.0			5000			4 PR 1X OD	
021	jcn21	SAMPLE	185703-005	111610	Water	23-MAR-2006 21:12	125.0			5000			4	
022	jcn22	SAMPLE	185703-006	111610	Water	23-MAR-2006 21:47	100.0			5000			4	
023	jcn23	SAMPLE	185703-007	111610	Water	23-MAR-2006 22:22	100.0			5000			4 PR 50X OD	
024	jcn24	SAMPLE	185742-004	111610	Water	23-MAR-2006 22:57	1.0			5000	B		4	
025	jcn25	SAMPLE	185742-001	111610	Water	23-MAR-2006 23:33	5.0			5000			4 PR 1X OD	
026	jcn26	SAMPLE	185742-002	111610	Water	24-MAR-2006 00:08	4.0			5000			4	
027	jcn27	SAMPLE	185742-003	111610	Water	24-MAR-2006 00:43	12.50			5000			4 PR 3.7X OD	
028	jcn28	SAMPLE	185610-001	111610	Water	24-MAR-2006 01:18	200.0	1		5000	E		4	1:BZME=116.718
029	jcn29	SAMPLE	185610-002	111610	Water	24-MAR-2006 01:52	400.0			5000			4	
030	jcn30	X	IB			24-MAR-2006 02:28	1.0						4	
031	jcn31	X	IB			24-MAR-2006 03:03	1.0						4	

Stds used: 1=S2327 2=S2783 3=S2844 4=S2707 5=S2757 6=S2953 7=S2902 8=S2616 9=S1670 10=S2860

Analyst: [signature] Date: 3/24/06

03/24/06

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185679 8260 Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CVBCA	DMCMD	VDMDT	TCDBT	DBMDB	DTHPD	CEXXT	STPDD	BBCLC	RLCCT	DTCAC	EC CCT	CZCCD	ICZCC	XCBLB	LBYYO	TBCBC	ZRMEE	EEL1N	SBE1	1A KE	LA CA1	L1 1M1	L1 2	EPCBP	MPAOE	CBZLL	TYMAF	AMK1E	1122	MZ MO	X E M	1EF 32
185679-001	MSVOA10	03/22/06 15:26	1.0																																		
185679-001	MSVOA10	03/23/06 16:31	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185679-002	MSVOA10	03/22/06 16:02	1.0																																		
185679-002	MSVOA10	03/23/06 17:06	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185679-003	MSVOA10	03/22/06 16:37	1.0																																		
185679-003	MSVOA10	03/23/06 17:41	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185679-004	MSVOA10	03/22/06 17:12	1.0																																		
185679-004	MSVOA09	03/23/06 18:06	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185679-005	MSVOA10	03/22/06 17:47	1.0																																		
185679-005	MSVOA09	03/23/06 18:41	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185679-008	MSVOA10	03/22/06 18:23	1.0																																		
185679-008	MSVOA09	03/23/06 19:18	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185679-009	MSVOA10	03/22/06 18:58	1.0																																		
185679-009	MSVOA09	03/23/06 19:52	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185679-018	MSVOA10	03/22/06 13:40	1.0																																		
185679-018	MSVOA09	03/23/06 12:51	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185679-019	MSVOA10	03/22/06 19:33	1.0																																		
185679-019	MSVOA09	03/23/06 14:01	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
185679-022	MSVOA10	03/22/06 14:16	1.0																																		
185679-022	MSVOA09	03/23/06 13:26	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC332514	MSVOA10	03/22/06 11:19	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC332515	MSVOA10	03/22/06 11:54	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC332516	MSVOA10	03/22/06 13:05	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC332713	MSVOA09	03/23/06 09:19	1.0		+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC332714	MSVOA09	03/23/06 09:53	1.0		+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC332715	MSVOA09	03/23/06 11:07	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC332756	MSVOA10	03/23/06 11:37	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC332757	MSVOA10	03/23/06 12:12	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185679 8260 Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID Analyzed	IDF	CLME	VCR	BME	CLE	AC1	DC1	MT1	CL1N	MD1	DT1	VC1S	DA1	MC1E	DK1	DE1	TL1	TM1	CL1	DL1	BA1	TC1	DC1	BZ1	TC1	MD1	DE1	BP1	DM1	TP1	HK1	PE1	DM1	CE1	EC1	XB1	XL1	TB1	SZ1	TL1	PY1	DM1	DA1	BF1	BM1	BE1	BF1
QC332758	MSVOA10 03/23/06 12:47	1.0		

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 8/23/96

PREPPED BY.

111595 (5)

111601 (9) WATER

	SAMPLE NUM	AMT o/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
			B	<2			5	5X PUT OFF	
1	185731 -1		A					1X	
2	-2							TB	
3	-3							~~PUT OFF~~ 20X PUT OFF	
4	185732 -1		B	<2				2.5X PUT OFF	
5	185733 -1							1X	
6	-2		A	<2				1X PUT OFF	
7	-3		B					1X ~~PUT OFF~~ PUT OFF	
8	185732 -2		A		10mL/W			1X	
9	185714 -1								
0	-2								
1	-3								
2	-4						9	TB	
3	185696 -1		A	<2				1x	
4	-2		B						
15	-3								
16	-4		A						
17	-5		A	<2	10mL		9	MC 1x, TB, ORG CLEAN	TB
18	185662-23								
19									
20			B	<2			9	1X	
21	185719 -1								PUT OFF
22	-2								
23	-3							1X ~~PUT OFF~~	
24	185724 -1								
25	-2								
26	-3							PUT OFF	
27	-4								
28	-5								
29	-6								
30	-7			<2			5	50X	PUT OFF
31	185726 -1							5X	
32	-2							7.14X	
33	-3							2.5X	
34	-4							4X	
35	-5		B	<2	LW		9	TB	
36	185679 -18							1x	
37	-19				LW			TB	
38	-22		C	<2			9	MC 1x Bzn CLEAN	
39	185679 -4								
40	-5								
41	-8								
42	-9								

PREPFORM.

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 3/23/06

PREPPED BY.

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
								PR 1X ~~B2N~~	
1	~~185679-18~~							P	
2	~~20~~		C	<2			10	PR 1X ~~B2N~~	
3	185679-1								
4	2								
5	3								
6	~~4~~								
7	~~5~~								
8	~~8~~								
9	~~9~~								
0	~~10~~								
1	185630-5		A	<2	2mL			PR 12.5	
2	185610-1		E					PR 200X OD	
3	2							PR 400X OD	
14	185703-1		A <2	<2				12.5X TVH	
15	2							4X	
16	3		A	<2				1X	
17	4							1X	
18	5		A <2	<2				12.5X	
19	6							100X	
20	7							100X	
21	185742-1		B	<2				5X	
22	2							4X	
23	3		B	<2				12.5X	
24	4							1X	
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									

PREPFORM.

7/21/96

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water
As of 04/29/06

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
1,1-Dichloroethene	ug/L	0.27	0.22	0.062	0.17	0.10	0.085	0.089
Benzene	ug/L	0.11	0.041	0.060	0.061	0.12	0.044	0.027
Trichloroethene	ug/L	0.21	0.076	0.18	0.17	0.11	0.072	0.087
Toluene	ug/L	0.083	0.083	0.12	0.092	0.062	0.063	0.053
Chlorobenzene	ug/L	0.10	0.090	0.11	0.16	0.16	0.079	0.050
Freon 12	ug/L	0.18	0.099	0.22	0.062	0.15	0.24	0.18
Chloromethane	ug/L	0.12	0.16	0.12	0.18	0.13	0.16	0.089
Vinyl Chloride	ug/L	0.19	0.23	0.10	0.066	0.10	0.17	0.16
Bromomethane	ug/L	0.29	0.30	0.31	0.13	0.31	0.23	0.20
Chloroethane	ug/L	0.33	0.33	0.15	0.16	0.13	0.16	0.12
Trichlorofluoromethane	ug/L	0.16	0.057	0.17	0.10	0.080	0.089	0.10
Acetone	ug/L	0.39	0.87	0.21	0.85	0.16	0.26	0.49
Freon 113	ug/L	0.062	0.12	0.13	0.25	0.071	0.20	0.091
Methylene Chloride	ug/L	0.15	0.21	0.11	0.12	0.16	0.099	0.22
MTBE	ug/L	0.069	0.074	0.065	0.045	0.040	0.051	0.052
Carbon Disulfide	ug/L	0.039	0.031	0.086	0.076	0.11	0.058	0.037
trans-1,2-Dichloroethene	ug/L	0.37	0.13	0.18	0.051	0.064	0.11	0.093
Vinyl Acetate	ug/L	0.076	0.36	0.084	0.99	0.40	0.080	0.10
1,1-Dichloroethane	ug/L	0.088	0.061	0.048	0.090	0.11	0.063	0.063
2-Butanone	ug/L	0.16	0.17	0.20	0.50	0.099	0.17	0.26
cis-1,2-Dichloroethene	ug/L	0.26	0.18	0.083	0.12	0.042	0.096	0.11
2,2-Dichloropropane	ug/L	0.093	0.17	0.077	0.12	0.066	0.084	0.083
Chloroform	ug/L	0.082	0.055	0.086	0.060	0.11	0.030	0.044
Bromochloromethane	ug/L	0.091	0.090	0.10	0.18	0.11	0.20	0.15
1,1,1-Trichloroethane	ug/L	0.084	0.066	0.14	0.11	0.061	0.045	0.041
1,1-Dichloropropene	ug/L	0.12	0.11	0.081	0.16	0.16	0.052	0.055
Carbon Tetrachloride	ug/L	0.089	0.11	0.098	0.17	0.15	0.095	0.056
1,2-Dichloroethane	ug/L	0.090	0.088	0.099	0.096	0.12	0.058	0.056
1,2-Dichloropropane	ug/L	0.093	0.060	0.079	0.071	0.14	0.072	0.12
Bromodichloromethane	ug/L	0.086	0.039	0.067	0.074	0.10	0.081	0.069
Dibromomethane	ug/L	0.16	0.061	0.092	0.16	0.11	0.065	0.13
4-Methyl-2-Pentanone	ug/L	0.044	0.076	0.057	0.20	0.13	0.092	0.25
cis-1,3-Dichloropropene	ug/L	0.068	0.065	0.056	0.20	0.16	0.042	0.044
trans-1,3-Dichloropropene	ug/L	0.074	0.074	0.044	0.073	0.14	0.071	0.060
1,1,2-Trichloroethane	ug/L	0.12	0.12	0.14	0.19	0.15	0.094	0.058
2-Hexanone	ug/L	0.043	0.31	0.047	0.34	0.11	0.13	0.14
1,3-Dichloropropane	ug/L	0.064	0.067	0.061	0.063	0.10	0.045	0.068
Tetrachloroethene	ug/L	0.13	0.14	0.12	0.22	0.14	0.090	0.093
Dibromochloromethane	ug/L	0.099	0.054	0.10	0.085	0.056	0.077	0.063
1,2-Dibromoethane	ug/L	0.16	0.061	0.10	0.073	0.11	0.053	0.070
2-Chloroethylvinylether	ug/L	0.093	0.18	0.24	0.17	0.14	0.20	0.23
1,1,1,2-Tetrachloroethane	ug/L	0.11	0.087	0.10	0.11	0.14	0.046	0.088
Ethylbenzene	ug/L	0.059	0.076	0.075	0.17	0.041	0.060	0.11
m,p-Xylenes	ug/L	0.24	0.22	0.14	0.27	0.17	0.13	0.20
o-Xylene	ug/L	0.10	0.058	0.092	0.11	0.16	0.11	0.13

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water
As of 04/29/06

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
Styrene	ug/L	0.12	0.092	0.098	0.085	0.16	0.075	0.061
Bromoform	ug/L	0.12	0.088	0.11	0.18	0.094	0.079	0.15
Isopropylbenzene	ug/L	0.12	0.059	0.090	0.18	0.059	0.053	0.10
1,1,2,2-Tetrachloroethane	ug/L	0.13	0.096	0.086	0.047	0.13	0.070	0.055
1,2,3-Trichloropropane	ug/L	0.31	0.28	0.074	0.11	0.17	0.20	0.16
Propylbenzene	ug/L	0.075	0.10	0.063	0.21	0.023	0.055	0.11
Bromobenzene	ug/L	0.12	0.12	0.10	0.19	0.12	0.073	0.085
1,3,5-Trimethylbenzene	ug/L	0.060	0.095	0.047	0.14	0.057	0.077	0.13
2-Chlorotoluene	ug/L	0.12	0.11	0.068	0.15	0.025	0.047	0.12
4-Chlorotoluene	ug/L	0.079	0.069	0.043	0.14	0.037	0.032	0.069
tert-Butylbenzene	ug/L	0.11	0.15	0.075	0.19	0.038	0.042	0.079
1,2,4-Trimethylbenzene	ug/L	0.091	0.088	0.066	0.12	0.069	0.077	0.10
sec-Butylbenzene	ug/L	0.11	0.12	0.062	0.17	0.088	0.041	0.076
para-Isopropyl Toluene	ug/L	0.058	0.12	0.12	0.14	0.056	0.055	0.045
1,3-Dichlorobenzene	ug/L	0.080	0.16	0.097	0.18	0.060	0.071	0.10
1,4-Dichlorobenzene	ug/L	0.068	0.14	0.095	0.18	0.038	0.092	0.17
n-Butylbenzene	ug/L	0.12	0.15	0.11	0.18	0.21	0.048	0.12
1,2-Dichlorobenzene	ug/L	0.072	0.14	0.080	0.14	0.16	0.068	0.061
1,2-Dibromo-3-Chloropropane	ug/L	0.39	0.25	0.21	0.22	0.13	0.26	0.098
1,2,4-Trichlorobenzene	ug/L	0.12	0.17	0.14	0.16	0.10	0.16	0.17
Hexachlorobutadiene	ug/L	0.19	0.19	0.29	0.21	0.11	0.24	0.25
Naphthalene	ug/L	0.12	0.13	0.060	0.10	0.091	0.20	0.16
1,2,3-Trichlorobenzene	ug/L	0.063	0.17	0.10	0.20	0.095	0.18	0.29
tert-Butyl Alcohol (TBA)	ug/L	1.3	1.6	0.83	2.5	1.3	0.94	1.3
Isopropyl Ether (DIPE)	ug/L	0.068	0.070	0.063	0.027	0.030	0.053	0.027
Ethyl tert-Butyl Ether (ETBE)	ug/L	0.089	0.045	0.024	0.20	0.033	0.075	0.034
Methyl tert-Amyl Ether (TAME)	ug/L	0.094	0.13	0.055	0.054	0.048	0.032	0.057
Isopropanol	ug/L	4.6	2.7	1.6	6.6	1.5	1.4	1.1
Ethanol	ug/L	55	22	23	50	11	7.9	36
Hexane	ug/L				0.33		0.15	
Cyclohexanone	ug/L	3.8	2.4	0.21	1.6	1.6	2.5	
Tetrahydrofuran	ug/L	0.64	1.2	1.1	0.79	1.4	1.7	3.5
Tetramethyl THF	ug/L	0.067	0.061	0.062	0.20	0.10	0.055	0.078
Gasoline C6-C10	ug/L		15		4.8	15	8.5	
Gasoline C7-C12	ug/L		18		2.4	13	7.7	
Dibromofluoromethane	ug/L	3.1	2.9	1.8	2.4	1.5		3.2
1,2-Dichloroethane-d4	ug/L	3.0	3.9		2.4	1.2		3.0
Toluene-d8	ug/L	1.7	3.8		1.1	1.0		1.1
Bromofluorobenzene	ug/L	2.5	2.6		1.2	1.2		1.5
Trifluorotoluene	ug/L	0.12	0.43	0.065	0.21	0.13		0.14

PESTICIDES

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	1349MW105	Batch#:	111733
Lab ID:	185679-008	Sampled:	03/20/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Prepared:	03/27/06
Diln Fac:	1.000	Analyzed:	03/28/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND #	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND #	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	71	65-135
Decachlorobiphenyl	69	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	LF5SP100	Batch#:	111733
Lab ID:	185679-019	Sampled:	03/21/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Prepared:	03/27/06
Diln Fac:	1.000	Analyzed:	03/28/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND #	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND #	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	67	65-135
Decachlorobiphenyl	78	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC333239	Batch#:	111733
Matrix:	Water	Prepared:	03/27/06
Units:	ug/L	Analyzed:	03/28/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND #	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND #	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	54 *	65-135
Decachlorobiphenyl	65	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Matrix:	Water	Batch#:	111733
Units:	ug/L	Prepared:	03/27/06
Diln Fac:	1.000	Analyzed:	03/28/06

Type: BS Lab ID: QC333240

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	0.2000	0.1681	84	65-135
Heptachlor	0.2000	0.1611	81	65-135
Aldrin	0.2000	0.1659	83	65-135
Dieldrin	0.4000	0.3535	88	65-135
Endrin	0.4000	0.3708	93	65-135
4,4'-DDT	0.4000	0.3647 #	91	65-135

Surrogate	%REC	Limits
TCMX	64 *	65-135
Decachlorobiphenyl	82	65-135

Type: BSD Lab ID: QC333241

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	0.2000	0.1535	77	65-135	9	35
Heptachlor	0.2000	0.1475	74	65-135	9	35
Aldrin	0.2000	0.1527	76	65-135	8	35
Dieldrin	0.4000	0.3025	76	65-135	16	35
Endrin	0.4000	0.3072	77	65-135	19	35
4,4'-DDT	0.4000	0.2847 #	71	65-135	25	35

Surrogate	%REC	Limits
TCMX	58 *	65-135
Decachlorobiphenyl	69	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185679 PEST Water: EPA 8081A

Inst : GC16
Calnum : 236120498001
Units : pg

Name : gc16pest083
Date : 24-MAR-2006 22:04
X Axis : R

Reviewer: MCH
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	083_013	236120498013	pest_1	24-MAR-2006 22:04	S2827
L2	083_014	236120498014	pest_2	24-MAR-2006 22:33	S2039
L3	083_015	236120498015	pest_3	24-MAR-2006 23:02	S2824
L4	083_016	236120498016	pest_4	24-MAR-2006 23:31	S2372
L5	083_017	236120498017	pest_5	25-MAR-2006 00:00	S2663
L6	083_018	236120498018	pest_6	25-MAR-2006 00:29	S2828
L7	083_019	236120498019	pest_7	25-MAR-2006 00:58	S2823

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
alpha-BHC	A	9706.0	10134	10942	11071	13275	15075	16131	AVRG		8.11E-5		12333	20	0.995	20	
gamma-BHC	A	9631.0	10671	11037	11395	13372	14124	14578	AVRG		8.25E-5		12115	16	0.995	20	
beta-BHC	A	7482.5	7798.0	7658.3	7150.1	7822.9	7667.9	7428.9	AVRG		1.32E-4		7572.7	3	0.995	20	
delta-BHC	A	8318.0	8794.6	8650.0	9431.7	10947	12118	13221	AVRG		9.79E-5		10212	19	0.995	20	
Heptachlor	A	10450	11836	11104	11041	11910	11667	11339	AVRG		8.82E-5		11335	5	0.995	20	
Aldrin	A	10909	11461	11486	11310	12877	13169	13145	AVRG		8.30E-5		12051	8	0.995	20	
Heptachlor epoxide	A	13108	13064	13218	12171	13137	12975	12031	AVRG		7.80E-5		12815	4	0.995	20	
gamma-Chlordane	A	13378	14556	13884	13357	14297	14246	13617	AVRG		7.19E-5		13905	3	0.995	20	
alpha-Chlordane	A	13363	14168	14003	13837	14728	14278	13554	AVRG		7.15E-5		13990	3	0.995	20	
4,4'-DDE	A	7939.5	8790.8	9352.3	10226	11012	11767	11615	AVRG		9.90E-5		10100	14	0.995	20	
Endosulfan I	A	14899	15297	14871	14258	15143	14802	13611	AVRG		6.80E-5		14697	4	0.995	20	
Dieldrin	A	11018	11906	12106	12266	13017	12714	11824	AVRG		8.25E-5		12122	5	0.995	20	
Endrin	A	9309.3	10160	10187	10350	10513	10558	9805.0	AVRG		9.88E-5		10126	4	0.995	20	
4,4'-DDD	A	5775.0	6316.8	6794.6	7517.6	7714.9	8765.7	8760.4	AVRG		1.36E-4		7377.8	16	0.995	20	
Endosulfan II	A	10767	11531	11709	11527	11660	11515	10531	AVRG		8.83E-5		11320	4	0.995	20	
4,4'-DDT	A	4299.3	5268.5	5207.5	6010.9	5911.0	6756.4	7056.4	AVRG		1.73E-4		5787.1	16	0.995	20	
Methoxychlor	A	2788.9	3586.4	3466.1	3625.9	3279.6	3334.5	3135.8	AVRG		3.01E-4		3316.8	9	0.995	20	
Endosulfan sulfate	A	11069	11463	11296	10862	10733	10556	9574.1	AVRG		9.27E-5		10793	6	0.995	20	
Endrin ketone	A	9934.0	11014	11367	11631	11351	11544	10711	AVRG		9.03E-5		11079	5	0.995	20	
TCMX	A	12864	13380	14313	12781	13991	14105	13269	AVRG		7.39E-5		13529	5	0.995	20	
Decachlorobiphenyl	A	19805	15836	18805	12649	15190	13899	11394	AVRG		6.51E-5		15368	20	0.995	20	
alpha-BHC	B	115455	115276	114792	103181	113456	107046	100780	AVRG		9.09E-6		109998	6	0.995	20	
gamma-BHC	B	107130	107880	101857	92883	101363	91682	85222	AVRG		1.02E-5		98288	9	0.995	20	
beta-BHC	B	64539	60243	55679	47660	50696	45192	40257	AVRG		1.92E-5		52038	17	0.995	20	
delta-BHC	B	105827	105711	97086	92276	99808	90368	84992	AVRG		1.04E-5		96581	8	0.995	20	
Heptachlor	B	85172	85117	76426	68000	72161	63469	56985	AVRG		1.38E-5		72476	15	0.995	20	

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236120498001

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aldrin	B	111006	108965	103491	93193	100421	90312	81616	AVRG		1.02E-5		98429	11	0.995	20	
Heptachlor epoxide	B	106857	99783	94114	80897	83623	75392	65312	AVRG		1.16E-5		86568	17	0.995	20	
gamma-Chlordane	B	123010	112585	103633	90926	94782	86753	78952	AVRG		1.01E-5		98663	16	0.995	20	
alpha-Chlordane	B	119446	113091	102769	92326	95412	85416	77112	AVRG		1.02E-5		97939	15	0.995	20	
4,4'-DDE	B	86369	87913	85282	78088	82531	76739	70250	AVRG		1.23E-5		81025	8	0.995	20	
Endosulfan I	B	108571	101678	92429	81620	83911	73962	64048	AVRG		1.15E-5		86603	18	0.995	20	
Dieldrin	B	91573	89716	84781	77303	79556	70690	61671	AVRG		1.26E-5		79327	13	0.995	20	
Endrin	B	76530	73204	58552	54258	52957	53115	47541	AVRG		1.68E-5		59451	19	0.995	20	
4,4'-DDD	B	51820	44743	53507	47778	49058	47477	40350	AVRG		2.09E-5		47819	9	0.995	20	
Endosulfan II	B	84121	81129	76064	67529	66948	59764	51840	AVRG		1.44E-5		69628	17	0.995	20	
4,4'-DDT	B	39926	41873	40209	37645	37988	36695	34328	AVRG		2.61E-5		38380	7	0.995	20	
Methoxychlor	B	18771	18809	16291	15004	13553	12535	11252	AVRG		6.59E-5		15173	19	0.995	20	
Endosulfan sulfate	B	76916	69419	64934	57331	56569	51438	44661	AVRG		1.66E-5		60181	18	0.995	20	
Endrin ketone	B	70352	66574	62723	56590	54693	50634	44422	AVRG		1.72E-5		57998	16	0.995	20	
TCMX	B	103426	96257	93614	77895	83179	77325	70400	AVRG		1.16E-5		86014	14	0.995	20	
Decachlorobiphenyl	B	74495	68027	63958	54785	50889	49623	44387	AVRG		1.72E-5		58023	19	0.995	20	
Average EPA 8081A	A												(n=22)	9		20	
Average EPA 8081A	B												(n=22)	14		20	

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AVRG=Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185679 PEST Water
EPA 8081A

Inst : GC16 Name : gc16pest083
Calnum : 236120498001 Cal Date: 24-MAR-2006

ICV 236120498022 (083_022 25-MAR-2006) stds: S2502

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
alpha-BHC	A	25.00	26.56	pg	6	15	
gamma-BHC	A	25.00	26.09	pg	4	15	
beta-BHC	A	25.00	25.32	pg	1	15	
delta-BHC	A	25.00	26.69	pg	7	15	
Heptachlor	A	25.00	25.39	pg	2	15	
Aldrin	A	25.00	25.21	pg	1	15	
Heptachlor epoxide	A	25.00	25.12	pg	0	15	
gamma-Chlordane	A	25.00	24.60	pg	-2	15	
alpha-Chlordane	A	25.00	25.10	pg	0	15	
4,4'-DDE	A	25.00	22.50	pg	-10	15	
Endosulfan I	A	25.00	23.30	pg	-7	15	
Dieldrin	A	25.00	23.49	pg	-6	15	
Endrin	A	25.00	24.50	pg	-2	15	
4,4'-DDD	A	25.00	23.11	pg	-8	15	
Endosulfan II	A	25.00	25.13	pg	1	15	
4,4'-DDT	A	25.00	23.26	pg	-7	15	
Methoxychlor	A	25.00	25.07	pg	0	15	
Endosulfan sulfate	A	25.00	25.43	pg	2	15	
Endrin ketone	A	25.00	25.64	pg	3	15	
alpha-BHC	B	25.00	25.72	pg	3	15	
gamma-BHC	B	25.00	25.39	pg	2	15	
beta-BHC	B	25.00	24.28	pg	-3	15	
delta-BHC	B	25.00	26.25	pg	5	15	
Heptachlor	B	25.00	24.53	pg	-2	15	
Aldrin	B	25.00	24.66	pg	-1	15	
Heptachlor epoxide	B	25.00	24.38	pg	-2	15	
gamma-Chlordane	B	25.00	23.36	pg	-7	15	
alpha-Chlordane	B	25.00	23.74	pg	-5	15	
4,4'-DDE	B	25.00	25.43	pg	2	15	
Endosulfan I	B	25.00	24.17	pg	-3	15	
Dieldrin	B	25.00	25.39	pg	2	15	
Endrin	B	25.00	26.15	pg	5	15	
4,4'-DDD	B	25.00	27.25	pg	9	15	
Endosulfan II	B	25.00	26.45	pg	6	15	
4,4'-DDT	B	25.00	25.74	pg	3	15	
Methoxychlor	B	25.00	33.10	pg	**32**	15	v+ ***
Endosulfan sulfate	B	25.00	26.34	pg	5	15	
Endrin ketone	B	25.00	26.99	pg	8	15	
Average EPA 8081A	A	n=20			4	15	
Average EPA 8081A	B	n=20			6	15	

+=high bias v=ICV

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 185679 PEST Water
EPA 8081A

Inst : GC16 Run Name: pem IDF : 1.0
Seqnum : 236126126002 File : 087_002 Time : 28-MAR-2006 14:36

Standards: S2963

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	438920	8	15	
4,4'-DDE	A	2950			
4,4'-DDD	A	33117			
Endrin	A	375566	7	15	
Endrin aldehyde	A	7531			
Endrin ketone	A	19633			
4,4'-DDT	B	2767598	9	15	
4,4'-DDE	B	36896			
4,4'-DDD	B	232342			
Endrin	B	2229933	7	15	
Endrin aldehyde	B	49166			
Endrin ketone	B	127965			

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 185679 PEST Water
EPA 8081A

Inst : GC16 Run Name: pem IDF : 1.0
Seqnum : 236126126018 File : 087_018 Time : 28-MAR-2006 22:59

Standards: S2963

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	523667	12	15	
4,4'-DDE	A	3901			
4,4'-DDD	A	65630			
Endrin	A	481071	7	15	
Endrin aldehyde	A	7540			
Endrin ketone	A	30286			
4,4'-DDT	B	2997917	14	15	
4,4'-DDE	B	35622			
4,4'-DDD	B	441602			
Endrin	B	2643513	8	15	
Endrin aldehyde	B	44973			
Endrin ketone	B	174819			

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185679 PEST Water
EPA 8081A

Inst : GC16 Run Name: pest_3 IDF : 1.0
Seqnum : 236126126004 File : 087_004 Time : 28-MAR-2006 15:33
Cal : 236120498001 Caldate : 24-MAR-2006
Standards: S2996

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	12333	10084	10.00	8.176	pg	**-18**	15	c- ***
gamma-BHC	A	12115	10068	10.00	8.310	pg	**-17**	15	c- ***
beta-BHC	A	7572.7	7090.2	10.00	9.363	pg	-6	15	
delta-BHC	A	10212	8049.2	10.00	7.882	pg	**-21**	15	c- ***
Heptachlor	A	11335	9738.2	10.00	8.591	pg	-14	15	
Aldrin	A	12051	11097	10.00	9.208	pg	-8	15	
Heptachlor epoxide	A	12815	12277	10.00	9.581	pg	-4	15	
gamma-Chlordane	A	13905	13193	10.00	9.488	pg	-5	15	
alpha-Chlordane	A	13990	13315	10.00	9.518	pg	-5	15	
4,4'-DDE	A	10100	9054.1	20.00	17.93	pg	-10	15	
Endosulfan I	A	14697	14208	10.00	9.667	pg	-3	15	
Dieldrin	A	12122	11434	20.00	18.87	pg	-6	15	
Endrin	A	10126	9092.3	20.00	17.96	pg	-10	15	
4,4'-DDD	A	7377.8	6160.6	20.00	16.70	pg	**-16**	15	c- ***
Endosulfan II	A	11320	10827	20.00	19.13	pg	-4	15	
4,4'-DDT	A	5787.1	4370.1	20.00	15.10	pg	**-24**	15	c- ***
Methoxychlor	A	3316.8	2779.7	100.0	83.81	pg	**-16**	15	c- ***
Endosulfan sulfate	A	10793	10412	20.00	19.29	pg	-4	15	
Endrin ketone	A	11079	10119	20.00	18.27	pg	-9	15	
TCMX	A	13529	13738	20.00	20.31	pg	2	15	
Decachlorobiphenyl	A	15368	18311	20.00	23.83	pg	**19**	15	c+
alpha-BHC	B	109998	106458	10.00	9.678	pg	-3	15	
gamma-BHC	B	98288	92725	10.00	9.434	pg	-6	15	
beta-BHC	B	52038	51055	10.00	9.811	pg	-2	15	
delta-BHC	B	96581	88901	10.00	9.205	pg	-8	15	
Heptachlor	B	72476	70262	10.00	9.695	pg	-3	15	
Aldrin	B	98429	102460	10.00	10.41	pg	4	15	
Heptachlor epoxide	B	86568	88040	10.00	10.17	pg	2	15	
gamma-Chlordane	B	98663	101595	10.00	10.30	pg	3	15	
alpha-Chlordane	B	97939	101299	10.00	10.34	pg	3	15	
4,4'-DDE	B	81025	85467	20.00	21.10	pg	5	15	
Endosulfan I	B	86603	88883	10.00	10.26	pg	3	15	
Dieldrin	B	79327	81284	20.00	20.49	pg	2	15	
Endrin	B	59451	61530	20.00	20.70	pg	3	15	
4,4'-DDD	B	47819	46822	20.00	19.58	pg	-2	15	
Endosulfan II	B	69628	71871	20.00	20.64	pg	3	15	
4,4'-DDT	B	38380	35844	20.00	18.68	pg	-7	15	
Methoxychlor	B	15173	13831	100.0	91.15	pg	-9	15	
Endosulfan sulfate	B	60181	61743	20.00	20.52	pg	3	15	
Endrin ketone	B	57998	57014	20.00	19.66	pg	-2	15	
TCMX	B	86014	96749	20.00	22.50	pg	12	15	
Decachlorobiphenyl	B	58023	63836	20.00	22.00	pg	10	15	
Average EPA 8081A	A	(n=22)					10	15	
Average EPA 8081A	B	(n=22)					4	15	

+=high bias -=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185679 PEST Water
EPA 8081A

Inst : GC16 Run Name: pest_4 IDF : 1.0
Seqnum : 236126126019 File : 087_019 Time : 28-MAR-2006 23:28
Cal : 236120498001 Caldate : 24-MAR-2006
Standards: S2997

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	12333	12239	20.00	19.85	pg	-1	15	
gamma-BHC	A	12115	11765	20.00	19.42	pg	-3	15	
beta-BHC	A	7572.7	7542.1	20.00	19.92	pg	0	15	
delta-BHC	A	10212	9702.5	20.00	19.00	pg	-5	15	
Heptachlor	A	11335	10195	20.00	17.99	pg	-10	15	
Aldrin	A	12051	12097	20.00	20.08	pg	0	15	
Heptachlor epoxide	A	12815	13058	20.00	20.38	pg	2	15	
gamma-Chlordane	A	13905	13725	20.00	19.74	pg	-1	15	
alpha-Chlordane	A	13990	13992	20.00	20.00	pg	0	15	
4,4'-DDE	A	10100	10655	40.00	42.20	pg	5	15	
Endosulfan I	A	14697	14616	20.00	19.89	pg	-1	15	
Dieldrin	A	12122	12558	40.00	41.44	pg	4	15	
Endrin	A	10126	9918.7	40.00	39.18	pg	-2	15	
4,4'-DDD	A	7377.8	7906.1	40.00	42.86	pg	7	15	
Endosulfan II	A	11320	11674	40.00	41.25	pg	3	15	
4,4'-DDT	A	5787.1	4641.4	40.00	32.08	pg	**-20**	15	c- ***
Methoxychlor	A	3316.8	2875.7	200.0	173.4	pg	-13	15	
Endosulfan sulfate	A	10793	10948	40.00	40.57	pg	1	15	
Endrin ketone	A	11079	11100	40.00	40.07	pg	0	15	
TCMX	A	13529	14166	40.00	41.88	pg	5	15	
Decachlorobiphenyl	A	15368	17039	40.00	44.35	pg	11	15	
alpha-BHC	B	109998	110170	20.00	20.03	pg	0	15	
gamma-BHC	B	98288	94899	20.00	19.31	pg	-3	15	
beta-BHC	B	52038	49941	20.00	19.19	pg	-4	15	
delta-BHC	B	96581	93426	20.00	19.35	pg	-3	15	
Heptachlor	B	72476	65676	20.00	18.12	pg	-9	15	
Aldrin	B	98429	95423	20.00	19.39	pg	-3	15	
Heptachlor epoxide	B	86568	83838	20.00	19.37	pg	-3	15	
gamma-Chlordane	B	98663	91708	20.00	18.59	pg	-7	15	
alpha-Chlordane	B	97939	91140	20.00	18.61	pg	-7	15	
4,4'-DDE	B	81025	80712	40.00	39.85	pg	0	15	
Endosulfan I	B	86603	81125	20.00	18.74	pg	-6	15	
Dieldrin	B	79327	75724	40.00	38.18	pg	-5	15	
Endrin	B	59451	57255	40.00	38.52	pg	-4	15	
4,4'-DDD	B	47819	48801	40.00	40.82	pg	2	15	
Endosulfan II	B	69628	66456	40.00	38.18	pg	-5	15	
4,4'-DDT	B	38380	31381	40.00	32.71	pg	**-18**	15	c- ***
Methoxychlor	B	15173	12396	200.0	163.4	pg	**-18**	15	c- ***
Endosulfan sulfate	B	60181	55173	40.00	36.67	pg	-8	15	
Endrin ketone	B	57998	51622	40.00	35.60	pg	-11	15	
TCMX	B	86014	84652	40.00	39.37	pg	-2	15	
Decachlorobiphenyl	B	58023	54133	40.00	37.32	pg	-7	15	
Average EPA 8081A	A	(n=22)					5	15	
Average EPA 8081A	B	(n=22)					6	15	

-=low bias c=CCV

SEQUENCE SUMMARY FOR 185679 PEST Water
Curtis & Tompkins Laboratories

Sequence: 236120498 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 24-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	083_001	X	primer			24-MAR-2006 16:18	1.0							
002	083_002	X	primer			24-MAR-2006 16:47	1.0							
003	083_003	X	primer			24-MAR-2006 17:16	1.0							
004	083_004	X	primer			24-MAR-2006 17:45	1.0							
005	083_005	X	primer			24-MAR-2006 18:14	1.0							
006	083_006	X	primer			24-MAR-2006 18:43	1.0							
007	083_007	X	primer			24-MAR-2006 19:11	1.0							
008	083_008	X	primer			24-MAR-2006 19:40	1.0							
009	083_009	X	primer			24-MAR-2006 20:09	1.0							
010	083_010	X	hex			24-MAR-2006 20:38	1.0							
011	083_011	PEM	pem			24-MAR-2006 21:07	1.0			1			1	
012	083_012	X	hex			24-MAR-2006 21:36	1.0							
013	083_013	ICAL	pest_1			24-MAR-2006 22:04	1.0						2	
014	083_014	ICAL	pest_2			24-MAR-2006 22:33	1.0						3	
015	083_015	ICAL	pest_3			24-MAR-2006 23:02	1.0						4	216
016	083_016	ICAL	pest_4			24-MAR-2006 23:31	1.0						5	
017	083_017	ICAL	pest_5			25-MAR-2006 00:00	1.0						6	
018	083_018	ICAL	pest_6			25-MAR-2006 00:29	1.0						7	
019	083_019	ICAL	pest_7			25-MAR-2006 00:58	1.0						8	
020	083_020	X	hex			25-MAR-2006 01:26	1.0							
021	083_021	X	icv			25-MAR-2006 01:55	1.0						9	
022	083_022	ICV	icv			25-MAR-2006 02:24	1.0	1		1			9	
023	083_023	X	pem			25-MAR-2006 02:53	1.0						1	
024	083_024	X	hex			25-MAR-2006 03:22	1.0							

Stds used: 1=S2963 2=S2827 3=S2039 4=S2824 5=S2372 6=S2663 7=S2828 8=S2823 9=S2502

SEQUENCE SUMMARY FOR 185679 PEST Water
Curtis & Tompkins Laboratories

Sequence: 236126126 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 28-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	087_001	X	hex			28-MAR-2006 14:06	1.0						
002	087_002	PEM	pem			28-MAR-2006 14:36	1.0	1.0			1	1	
003	087_003	X	pest_3			28-MAR-2006 15:04	1.0					2	
004	087_004	CCV	pest_3			28-MAR-2006 15:33	1.0	1.0	6		1	2	
005	087_005	X	pest_3			28-MAR-2006 16:07	1.0					2	
006	087_006	X	hex			28-MAR-2006 17:13	1.0						
007	087_007	BLANK	QC333239	111733	Water	28-MAR-2006 17:42	1.0	0.01	8	2	1		
008	087_008	BS	QC333240	111733	Water	28-MAR-2006 18:11	1.0	0.01	8	1	1		
009	087_009	BSD	QC333241	111733	Water	28-MAR-2006 18:40	1.0	0.01	8	2	1		
010	087_010	SAMPLE	185679-008	111733	Water	28-MAR-2006 19:08	1.0	0.009709	8	2	1		
011	087_011	SAMPLE	185679-019	111733	Water	28-MAR-2006 19:37	1.0	0.009524	8	2	1		
012	087_012	SAMPLE	185738-021	111733	Water	28-MAR-2006 20:06	1.0	0.009901	8		1		
013	087_013	SAMPLE	185738-022	111733	Water	28-MAR-2006 20:35	5.0	0.009524	8		1		
014	087_014	SAMPLE	185738-023	111733	Water	28-MAR-2006 21:04	1.0	0.01282	8		1		
015	087_015	SAMPLE	185738-024	111733	Water	28-MAR-2006 21:33	1.0	0.0119	8		1		217
016	087_016	SAMPLE	185738-025	111733	Water	28-MAR-2006 22:02	5.0	0.009434	8		1		
017	087_017	X	hex			28-MAR-2006 22:31	1.0						
018	087_018	PEM	pem			28-MAR-2006 22:59	1.0	1.0			1	1	
019	087_019	CCV	pest_4			28-MAR-2006 23:28	1.0	1.0	3		1	3	
020	087_020	X	pest_4			28-MAR-2006 23:57	1.0					3	
021	087_021	X	pem			29-MAR-2006 00:26	1.0					1	
022	087_022	X	hex			29-MAR-2006 00:55	1.0						
023	087_023	SAMPLE	185738-026	111733	Water	29-MAR-2006 01:24	1.0	0.009434	4		1		
024	087_024	SAMPLE	185764-002	111733	Water	29-MAR-2006 01:53	1.0	0.009524	4		1		
025	087_025	SAMPLE	185764-003	111733	Water	29-MAR-2006 02:22	1.0	0.009804	4		1		
026	087_026	SAMPLE	185764-004	111733	Water	29-MAR-2006 02:50	1.0	0.009901	4		1		
027	087_027	SAMPLE	185764-005	111733	Water	29-MAR-2006 03:19	5.0	0.009615	4		1		
028	087_028	SAMPLE	185764-006	111733	Water	29-MAR-2006 03:48	1.0	0.009615	4		1		
029	087_029	SAMPLE	185787-011	111733	Water	29-MAR-2006 04:17	1.0	0.009709	4		1		
030	087_030	SAMPLE	185787-012	111733	Water	29-MAR-2006 04:47	1.0	0.009434	4		1		
031	087_031	SAMPLE	185787-013	111733	Water	29-MAR-2006 05:16	1.0	0.009524	4		1		

Stds used: 1=S2963 2=S2996 3=S2997 4=S2663

SEQUENCE SUMMARY FOR 185679 PEST Water
Curtis & Tompkins Laboratories

Sequence: 236126126 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 28-MAR-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	087_032	SAMPLE	185787-014	111733	Water	29-MAR-2006 05:45	1.0	0.009615	4		1		
033	087_033	X	hex			29-MAR-2006 06:14	1.0						
034	087_034	PEM	pem			29-MAR-2006 06:43	1.0	1.0			1	1	
035	087_035	CCV	pest_5			29-MAR-2006 07:12	1.0	1.0	4		1	4	
036	087_036	X	pest_5			29-MAR-2006 07:40	1.0					4	
037	087_037	X	pem			29-MAR-2006 08:09	1.0					1	
038	087_038	X	hex			29-MAR-2006 08:38	1.0						

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Stds used: 1=S2963 2=S2996 3=S2997 4=S2663

REPORTING SUMMARY FOR 185679 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185679-008	alpha-BHC	GC16	B	03/28/06 19:08
185679-008	beta-BHC	GC16	B	03/28/06 19:08
185679-008	gamma-BHC	GC16	B	03/28/06 19:08
185679-008	delta-BHC	GC16	B	03/28/06 19:08
185679-008	Heptachlor	GC16	B	03/28/06 19:08
185679-008	Aldrin	GC16	B	03/28/06 19:08
185679-008	Heptachlor epoxide	GC16	B	03/28/06 19:08
185679-008	Endosulfan I	GC16	B	03/28/06 19:08
185679-008	Dieldrin	GC16	B	03/28/06 19:08
185679-008	4,4'-DDE	GC16	B	03/28/06 19:08
185679-008	Endrin	GC16	B	03/28/06 19:08
185679-008	Endosulfan II	GC16	B	03/28/06 19:08
185679-008	Endosulfan sulfate	GC16	B	03/28/06 19:08
185679-008	4,4'-DDD	GC16	B	03/28/06 19:08
185679-008	4,4'-DDT	GC16	B	03/28/06 19:08
185679-008	alpha-Chlordane	GC16	B	03/28/06 19:08
185679-008	gamma-Chlordane	GC16	B	03/28/06 19:08
185679-008	Methoxychlor	GC16	B	03/28/06 19:08
185679-008	Endrin ketone	GC16	B	03/28/06 19:08
185679-008	Toxaphene	GC16	B	03/28/06 19:08
185679-008	TCMX	GC16	A	03/28/06 19:08
185679-008	Decachlorobiphenyl	GC16	A	03/28/06 19:08
185679-019	alpha-BHC	GC16	B	03/28/06 19:37
185679-019	beta-BHC	GC16	B	03/28/06 19:37
185679-019	gamma-BHC	GC16	B	03/28/06 19:37
185679-019	delta-BHC	GC16	B	03/28/06 19:37
185679-019	Heptachlor	GC16	B	03/28/06 19:37
185679-019	Aldrin	GC16	B	03/28/06 19:37
185679-019	Heptachlor epoxide	GC16	B	03/28/06 19:37
185679-019	Endosulfan I	GC16	B	03/28/06 19:37
185679-019	Dieldrin	GC16	B	03/28/06 19:37
185679-019	4,4'-DDE	GC16	B	03/28/06 19:37
185679-019	Endrin	GC16	B	03/28/06 19:37
185679-019	Endosulfan II	GC16	B	03/28/06 19:37
185679-019	Endosulfan sulfate	GC16	B	03/28/06 19:37
185679-019	4,4'-DDD	GC16	B	03/28/06 19:37
185679-019	4,4'-DDT	GC16	B	03/28/06 19:37
185679-019	alpha-Chlordane	GC16	B	03/28/06 19:37
185679-019	gamma-Chlordane	GC16	B	03/28/06 19:37
185679-019	Methoxychlor	GC16	B	03/28/06 19:37
185679-019	Endrin ketone	GC16	B	03/28/06 19:37
185679-019	Toxaphene	GC16	B	03/28/06 19:37
185679-019	TCMX	GC16	A	03/28/06 19:37
185679-019	Decachlorobiphenyl	GC16	A	03/28/06 19:37
QC333239	alpha-BHC	GC16	B	03/28/06 17:42
QC333239	beta-BHC	GC16	B	03/28/06 17:42
QC333239	gamma-BHC	GC16	B	03/28/06 17:42
QC333239	delta-BHC	GC16	B	03/28/06 17:42
QC333239	Heptachlor	GC16	B	03/28/06 17:42
QC333239	Aldrin	GC16	B	03/28/06 17:42
QC333239	Heptachlor epoxide	GC16	B	03/28/06 17:42
QC333239	Endosulfan I	GC16	B	03/28/06 17:42

REPORTING SUMMARY FOR 185679 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC333239	Dieldrin	GC16	B	03/28/06 17:42
QC333239	4,4'-DDE	GC16	B	03/28/06 17:42
QC333239	Endrin	GC16	B	03/28/06 17:42
QC333239	Endosulfan II	GC16	B	03/28/06 17:42
QC333239	Endosulfan sulfate	GC16	B	03/28/06 17:42
QC333239	4,4'-DDD	GC16	B	03/28/06 17:42
QC333239	4,4'-DDT	GC16	B	03/28/06 17:42
QC333239	alpha-Chlordane	GC16	B	03/28/06 17:42
QC333239	gamma-Chlordane	GC16	B	03/28/06 17:42
QC333239	Methoxychlor	GC16	B	03/28/06 17:42
QC333239	Endrin ketone	GC16	B	03/28/06 17:42
QC333239	Toxaphene	GC16	B	03/28/06 17:42
QC333239	TCMX	GC16	B	03/28/06 17:42
QC333239	Decachlorobiphenyl	GC16	B	03/28/06 17:42
QC333240	gamma-BHC	GC16	B	03/28/06 18:11
QC333240	Heptachlor	GC16	B	03/28/06 18:11
QC333240	Aldrin	GC16	B	03/28/06 18:11
QC333240	Dieldrin	GC16	B	03/28/06 18:11
QC333240	Endrin	GC16	B	03/28/06 18:11
QC333240	4,4'-DDT	GC16	B	03/28/06 18:11
QC333240	TCMX	GC16	B	03/28/06 18:11
QC333240	Decachlorobiphenyl	GC16	B	03/28/06 18:11
QC333241	gamma-BHC	GC16	B	03/28/06 18:40
QC333241	Heptachlor	GC16	B	03/28/06 18:40
QC333241	Aldrin	GC16	B	03/28/06 18:40
QC333241	Dieldrin	GC16	B	03/28/06 18:40
QC333241	Endrin	GC16	B	03/28/06 18:40
QC333241	4,4'-DDT	GC16	B	03/28/06 18:40
QC333241	TCMX	GC16	B	03/28/06 18:40
QC333241	Decachlorobiphenyl	GC16	B	03/28/06 18:40

Curtis & Tompkins Laboratories **Sample Preparation Summary** **28-MAR-2006 13:46**

Batch Number : 111733
Date Extracted: 27-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : 8081
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2984A
Spike #2 ID : S2744G
Spike #3 ID :
SOP Version : 8081w_rv14

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185679-008		Treadwell & Rollo	Water	1030	mL	10	0.009709	1	7	.02	0		8081		
185679-019		Treadwell & Rollo	Water	1050	mL	10	0.009524	1	6	.02	0		8081		
185738-021		LFR Levine Fricke	Water	1010	mL	10	0.009901	1	6	.02	0		8081		
185738-022		LFR Levine Fricke	Water	1050	mL	10	0.009524	1	6	.02	0		8081		
185738-023		LFR Levine Fricke	Water	780	mL	10	0.012821	1	6	.02	0		8081		
185738-024		LFR Levine Fricke	Water	840	mL	10	0.011905	1	6	.02	0		8081		
185738-025		LFR Levine Fricke	Water	1060	mL	10	0.009434	1	6	.02	0		8081		
185738-026		LFR Levine Fricke	Water	1060	mL	10	0.009434	1	5	.02	0		8081		
185764-002		LFR Levine Fricke	Water	1050	mL	10	0.009524	1	6	.02	0		8081		
185764-003		LFR Levine Fricke	Water	1020	mL	10	0.009804	1	6	.02	0		8081		
185764-004		LFR Levine Fricke	Water	1010	mL	10	0.009901	1	6	.02	0		8081		
185764-005		LFR Levine Fricke	Water	1040	mL	10	0.009615	1	6	.02	0		8081		
185764-006		LFR Levine Fricke	Water	1040	mL	10	0.009615	1	5	.02	0		8081		
185787-011		LFR Levine Fricke	Water	1030	mL	10	0.009709	1	6	.02	0		8081		
185787-012		LFR Levine Fricke	Water	1060	mL	10	0.009434	1	6	.02	0		8081		
185787-013		LFR Levine Fricke	Water	1050	mL	10	0.009524	1	6	.02	0		8081		
185787-014		LFR Levine Fricke	Water	1040	mL	10	0.009615	1	5	.02	0		8081		
185791-001		TRC Environmental Solutions, I	Water	1040	mL	10	0.009615	1	7	.02	0		8081		
QC333239	BLANK		Water	1000	mL	10	0.010000	1		.02	0		8081		
QC333240	BS		Water	1000	mL	10	0.010000	1		.02	.025		8081		
QC333241	BSD		Water	1000	mL	10	0.010000	1		.02	.025		8081		

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Prep Chemist: Jessie Mee Reviewed By: [signature] Date: 3/28/06

Relinquished By: [signature] Received By: [signature] Date: 03/28/06

Curtis & Tompkins, Ltd

8081 WATER PREP LOG

BK2210

LIMS Batch No: 111733 JOM 3/27/06
LIMS Analysis: ~~8310~~ 8081
Extracted by: JOM
Date Extracted: 27 Mar 06

Extraction Method:
- ☐ EPA 3510c sep. funnel
- ☒ EPA 3520c cont. L/L
- ☐ _____

Cleanup Method (if needed):
- ☐ EPA 3640a GPC
- ☐ EPA 3620b Florisil
- ☐ _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
~~185679-007~~					Not in batch JOM 3/27/06
↓ 08					
↓ 09					
MB BC333239	1000	NA	10.0		
BS ↓ 40	↓	↓	↓		
BSD ↓ 41	↓	↓	↓		
185679-008 K	1030	7	↓		
↓ 19 G	1050	6	↓		wood chips in sample
185738-021	1010	↓	↓		
↓ 22	1050	↓	↓		
↓ 23	780	↓	↓		limited sample
↓ 24	840	↓	↓		↓
↓ 25	1060	↓	↓		
↓ 26 H	1060	5	↓		
185764-002 H	1050	6	↓		
↓ 03 G	1020	↓	↓		
↓ 04 G	1010	↓	↓		
↓ 05 H	1040	↓	↓		
↓ 06 F	1040	5	↓		
185787-011 E	1030	6	↓		
↓ 12 E	1060	↓	↓		
↓ 13 F	1050	↓	↓		
↓ 14 F	1040	5	↓		
185791-001 G	1040	7	↓		JOM 3/27

JOM 3/27/06 ~~0.1~~ 0.02 mL of surrogate solution was added to all samples
0.025 ~~1.0~~ mL of matrix spike solution was added to all spikes
☒ Samples continuously extracted with about 450 mL of CH_2Cl_2
Extraction Start Time: 1751
Extraction End Time: 1155
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2
Extracts filtered through baked, CH_2Cl_2-rinsed ~~powdered~~ granular Na_2SO_4
Exchanged 2x with Hexane
Concentrated: ☒ to volumes as noted above ☐ to clean-up volume
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Florisil

Mfg & Lot# / LIMS # / Time	Date/ Initials
S2484A	JOM 3/27
S2744G	↓
EM46060	↓
1751	↓
1155	JOM 3/28
NA	KMM 3/28/06
EA45118532	↓
CD890	↓
✓	↓
NA	↓

Extraction Chemist 3/27/06 Date

Contined from Page —
Continued on Page —

Reviewed by 3/28/06 Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8081A Water
As of 04/29/06

Analyte	Units	GC21 A	GC21 B	GC16 A	GC16 B	GC23 A	GC23 B
gamma-BHC	ug/L	0.0065	0.0039	0.0032	0.0025	0.0029	0.0039
Heptachlor	ug/L	0.0083	0.0056	0.0057	0.0061	0.0029	0.0055
Aldrin	ug/L	0.0094	0.0070	0.0066	0.0066	0.0062	0.0077
Dieldrin	ug/L	0.011	0.0051	0.0074	0.0070	0.0041	0.0097
Endrin	ug/L	0.012	0.011	0.0095	0.0083	0.0054	0.011
4,4'-DDT	ug/L	0.012	0.0071	0.011	0.0099	0.0088	0.0087
alpha-BHC	ug/L	0.0063	0.0040	0.0029	0.0027	0.0032	0.0049
beta-BHC	ug/L	0.0061	0.011	0.0033	0.0052	0.0029	0.0055
delta-BHC	ug/L	0.0065	0.0023	0.0040	0.0026	0.0018	0.0041
Heptachlor epoxide	ug/L	0.0066	0.0097	0.0033	0.0032	0.0028	0.0044
gamma-Chlordane	ug/L	0.0064	0.011	0.0041	0.0037	0.0020	0.0042
alpha-Chlordane	ug/L	0.010	0.0052	0.0045	0.0036	0.0023	0.0052
Endosulfan I	ug/L	0.0062	0.0033	0.0043	0.0032	0.0026	0.0048
4,4'-DDE	ug/L	0.011	0.0057	0.010	0.0082	0.0045	0.0097
Endosulfan II	ug/L	0.013	0.0077	0.0088	0.0073	0.0066	0.0097
Endosulfan sulfate	ug/L	0.0096	0.0054	0.015	0.0087	0.0054	0.0093
4,4'-DDD	ug/L	0.011	0.0096	0.0088	0.0090	0.0033	0.010
Endrin aldehyde	ug/L	0.010	0.0092	0.0084	0.0086	0.0052	0.0088
Chlordane (Technical)	ug/L	0.26	0.21	0.19	0.19	0.17	0.21
Methoxychlor	ug/L	0.050	0.018	0.057	0.080	0.043	0.051
Endrin ketone	ug/L	0.0083	0.023	0.027	0.0095	0.0051	0.015
Toxaphene	ug/L	0.47	0.32	0.39	0.34	0.54	0.29

POLYAROMATIC HYDROCARBONS

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	LF6GW106	Batch#:	111729
Lab ID:	185679-007	Sampled:	03/20/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Prepared:	03/27/06
Diln Fac:	1.000	Analyzed:	03/29/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.97	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.97	
Fluorene	ND	0.97	
Phenanthrene	ND	0.49	
Anthracene	ND	0.49	0.008
Fluoranthene	ND	0.39	0.02
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	93	65-135
1-Methylnaphthalene (F)	89	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	1349MW105	Batch#:	111729
Lab ID:	185679-008	Sampled:	03/20/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Prepared:	03/27/06
Diln Fac:	1.000	Analyzed:	03/29/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.97	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.97	
Fluorene	ND	0.97	
Phenanthrene	ND	0.49	
Anthracene	ND	0.49	0.008
Fluoranthene	ND	0.39	0.02
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	92	65-135
1-Methylnaphthalene (F)	87	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	600GW107	Batch#:	111729
Lab ID:	185679-009	Sampled:	03/20/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Prepared:	03/27/06
Diln Fac:	1.000	Analyzed:	03/29/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.95	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.95	
Fluorene	ND	0.95	
Phenanthrene	ND	0.48	
Anthracene	ND	0.48	0.008
Fluoranthene	0.03 J	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	93	65-135
1-Methylnaphthalene (F)	88	65-135

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC333215	Batch#:	111729
Matrix:	Water	Prepared:	03/27/06
Units:	ug/L	Analyzed:	03/29/06

Analyte	Result	RL	MDL
Naphthalene	ND	1.0	
Acenaphthylene	ND	2.0	
Acenaphthene	ND	1.0	
Fluorene	ND	1.0	
Phenanthrene	ND	0.50	
Anthracene	ND	0.50	0.008
Fluoranthene	ND	0.40	0.02
Pyrene	ND	0.20	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	88	65-135
1-Methylnaphthalene (F)	84	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Matrix:	Water	Batch#:	111729
Units:	ug/L	Prepared:	03/27/06
Diln Fac:	1.000	Analyzed:	03/29/06

Type: BS Lab ID: QC333216

Analyte	Spiked	Result	%REC	Limits
Naphthalene	10.00	8.734	87	50-135
Fluorene	2.000	1.831	92	65-135
Pyrene	1.000	0.9349	93	65-135
Benzo(a)pyrene	1.000	0.9233	92	65-135

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	87	65-135
1-Methylnaphthalene (F)	83	65-135

Type: BSD Lab ID: QC333217

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Naphthalene	10.00	9.338	93	50-135	7	35
Fluorene	2.000	1.950	98	65-135	6	35
Pyrene	1.000	0.9897	99	65-135	6	35
Benzo(a)pyrene	1.000	0.9738	97	65-135	5	35

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	96	65-135
1-Methylnaphthalene (F)	90	65-135

RPD= Relative Percent Difference

Confirmation Report for 185679 HPLC Water
Curtis & Tompkins Laboratories

Units: ug/L

Lab ID	Client ID	Analyte	Result	Confirmation	RPD	%D
185679-009	600GW107	Fluoranthene	0.02708 J	0.1068	119	295

J=estimated

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185679 HPLC Water: EPA 8310

Inst : HPLC04
Calnum : 295454249001
Units : ug/L

Date : 11-NOV-2005 13:27
X Axis : R

Reviewer: MCH
Inj Vol : 10 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	31500006	295454249006		11-NOV-2005 13:27	S1620
L2	31500007	295454249007		11-NOV-2005 13:58	S1619
L3	31500008	295454249008		11-NOV-2005 14:30	S1618
L4	31500009	295454249009		11-NOV-2005 15:02	S1617
L5	31500010	295454249010		11-NOV-2005 15:33	S1616
L6	31500011	295454249011		11-NOV-2005 16:05	S1615
L7	31500012	295454249012		11-NOV-2005 16:36	S1614

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Naphthalene	1	0.0130	0.0130	0.0130	0.0132	0.0131	0.0129	0.0130	LINR	-24.714	77.1181		0.0130	1.000	0.99	20	
Acenaphthylene	1	0.0092	0.0091	0.0093	0.0095	0.0094	0.0092	0.0091	LINR	-214.44	109.425		0.0093	1.000	0.99	20	
Acenaphthene	1	0.0049	0.0049	0.0051	0.0052	0.0051	0.0050	0.0050	LINR	-85.609	200.350		0.0050	1.000	0.99	20	
Fluorene	1	0.0623	0.0618	0.0631	0.0639	0.0633	0.0627	0.0629	LINR	-2.8635	15.9062		0.0629	1.000	0.99	20	
Phenanthrene	1	0.1801	0.1766	0.1803	0.1826	0.1801	0.1784	0.1795	LINR	-1.3045	5.57871		0.1797	1.000	0.99	20	
Anthracene	1	0.4031	0.4032	0.4080	0.4134	0.4084	0.4043	0.4050	LINR	-3.4533	2.47159		0.4065	1.000	0.99	20	
Fluoranthene	1	0.0405	0.0401	0.0407	0.0416	0.0411	0.0407	0.0412	LINR	4.76117	24.3260		0.0408	1.000	0.99	20	
Pyrene	1	0.0324	0.0319	0.0332	0.0334	0.0330	0.0331	0.0336	LINR	8.56100	29.7835		0.0329	1.000	0.99	20	
Benzo(a)anthracene	1	0.0846	0.0904	0.0906	0.0917	0.0910	0.0903	0.0918	LINR	6.16312	10.9120		0.0901	1.000	0.99	20	
Chrysene	1	0.1299	0.1298	0.1319	0.1351	0.1332	0.1321	0.1335	LINR	2.64524	7.49865		0.1322	1.000	0.99	20	
Benzo(b)fluoranthene	1	0.0989	0.1025	0.1054	0.1076	0.1069	0.1059	0.1068	LINR	5.37165	9.37329		0.1049	1.000	0.99	20	
Benzo(k)fluoranthene	1	0.0806	0.0758	0.0785	0.0804	0.0803	0.0803	0.0814	LINR	9.05452	12.2962		0.0796	1.000	0.99	20	
Benzo(a)pyrene	1	0.0781	0.0812	0.0842	0.0867	0.0863	0.0861	0.0870	LINR	8.12100	11.4914		0.0842	1.000	0.99	20	
Dibenz(a,h)anthracene	1	0.0174	0.0209	0.0203	0.0209	0.0211	0.0213	0.0216	LINR	28.9418	46.3202		0.0205	1.000	0.99	20	
Benzo(g,h,i)perylene	1	0.0332	0.0346	0.0347	0.0354	0.0353	0.0353	0.0357	LINR	17.3259	27.9927		0.0349	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	1	0.0843	0.0838	0.0916	0.0948	0.0947	0.0946	0.0953	LINR	8.70680	10.4860		0.0913	1.000	0.99	20	
1-Methylnaphthalene (UV)	1	0.0084	0.0085	0.0086	0.0086	0.0085	0.0084	0.0084	LINR	-262.66	119.128		0.0085	1.000	0.99	20	
Acenaphthylene	2	0.0273	0.0273	0.0279	0.0282	0.0280	0.0277	0.0279	LINR	7.54152	35.8750		0.0277	1.000	0.99	20	
1-Methylnaphthalene (UV)	2	0.0030	0.0030	0.0031	0.0031	0.0031	0.0030	0.0030	LINR	-125.29	329.273		0.0031	1.000	0.99	20	
Naphthalene	3	0.0118	0.0118	0.0118	0.0119	0.0119	0.0117	0.0116	LINR	-94.622	86.2298		0.0118	1.000	0.99	20	
Acenaphthene	3	0.0242	0.0241	0.0242	0.0246	0.0244	0.0239		LINR	-65.047	41.8154		0.0242	1.000	0.99	20	
Fluorene	3	0.1329	0.1328	0.1337	0.1349	0.1333	0.1303		LINR	-17.920	7.68242		0.1330	1.000	0.99	20	
Phenanthrene	3	0.1403	0.1414	0.1416	0.1432	0.1419	0.1386	0.1387	LINR	-8.7849	7.22392		0.1408	1.000	0.99	20	
Anthracene	3	0.4105	0.4089	0.4142	0.4203	0.4141	0.4106	0.4119	LINR	-2.5156	2.43034		0.4129	1.000	0.99	20	
Fluoranthene	3	0.0408	0.0402	0.0409	0.0415	0.0411	0.0406	0.0409	LINR	-2.6821	24.5038		0.0409	1.000	0.99	20	
Pyrene	3	0.1357	0.1319	0.1342	0.1369	0.1342	0.1312	0.1332	LINR	-2.1762	7.53143		0.1339	1.000	0.99	20	

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Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Benzo(a)anthracene	3	0.1507	0.1492	0.1525	0.1551	0.1526	0.1506	0.1519	LINR	-1.3548	6.59583		0.1518	1.000	0.99	20	
Chrysene	3	0.1830	0.1826	0.1864	0.1898	0.1872	0.1843	0.1845	LINR	-5.3078	5.42554		0.1854	1.000	0.99	20	
Benzo(b)fluoranthene	3	0.0661	0.0655	0.0671	0.0681	0.0672	0.0664	0.0670	LINR	-0.3738	14.9546		0.0668	1.000	0.99	20	
Benzo(k)fluoranthene	3	0.3904	0.3881	0.3960	0.4014	0.3974	0.3923	0.3904	LINR	-7.1975	2.56238		0.3937	1.000	0.99	20	
Benzo(a)pyrene	3	0.2124	0.2112	0.2162	0.2193	0.2168	0.2137	0.2143	LINR	-3.8765	4.67175		0.2148	1.000	0.99	20	
Dibenz(a,h)anthracene	3	0.0298	0.0299	0.0311	0.0319	0.0317	0.0316	0.0320	LINR	14.7159	31.2756		0.0311	1.000	0.99	20	
Benzo(g,h,i)perylene	3	0.0617	0.0613	0.0626	0.0641	0.0636	0.0633	0.0639	LINR	8.49542	15.6646		0.0629	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	3	0.0928	0.0930	0.0946	0.0968	0.0967	0.0963	0.0973	LINR	6.16011	10.2852		0.0953	1.000	0.99	20	
1-Methylnaphthalene (F)	3	0.0132	0.0131	0.0132	0.0133	0.0132	0.0128		LINR	-457.43	78.4104		0.0131	1.000	0.99	20	

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LINR=Linear regression

Instrument amount = a0 + response * a1 + response^2 * a2

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Calibration Table

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NEW ICAL. [illegible] 14 NOV 2005

HPLC04 METHOD 8310

Calib. Data Modified : 11/14/2005 4:07:02 PM

Calculate : External Standard
Based on : Peak Area

[illegible] 11/15/05

Rel. Reference Window : 1.000 %
Abs. Reference Window : 0.200 min
Rel. Non-ref. Window : 1.000 %
Abs. Non-ref. Window : 0.250 min
Do not use Multiplier & Dilution Factor with ISTDs
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Signal 1: DAD1 A, Sig=254,4 Ref=480,80
Signal 2: DAD1 B, Sig=305,4 Ref=480,80
Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
4.798	1	1	500.00000	6.51225	76.77836			Naphthalene
		2	1000.00000	13.02439	76.77905			
		3	2500.00000	32.45070	77.03995			
		4	5000.00000	65.81794	75.96713			
		5	1.00000e4	130.82538	76.43777			
		6	2.50000e4	323.61371	77.25260			
		7	5.00000e4	648.90906	77.05240			
4.839	3	1	500.00000	5.89779	84.77755			Naphthalene
		2	1000.00000	11.75017	85.10517			
		3	2500.00000	29.52386	84.67727			
		4	5000.00000	59.72798	83.71286			
		5	1.00000e4	118.70710	84.24096			
		6	2.50000e4	292.13416	85.57712			
		7	5.00000e4	580.05115	86.19930			
6.052	1	1	1000.00000	9.19383	108.76859			Acenaphthylene
		2	2000.00000	18.17297	110.05354			
		3	5000.00000	46.41474	107.72440			
		4	1.00000e4	94.72365	105.57026			
		5	2.00000e4	187.69478	106.55597			
		6	5.00000e4	461.84637	108.26111			
		7	1.00000e5	913.74396	109.43985			
6.053	2	1	1000.00000	27.33126	36.58814			Acenaphthylene
		2	2000.00000	54.50918	36.69107			
		3	5000.00000	139.26938	35.90165			

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		4	1.00000e4	281.69171	35.49980			
		5	2.00000e4	559.80969	35.72643			
		6	5.00000e4	1386.26819	36.06806			
		7	1.00000e5	2790.07104	35.84138			
6.831	1	1	2000.00000	16.88634	118.43892			1-Methylnaphthalene (UV)
		2	4000.00000	33.87627	118.07677			
		3	1.00000e4	85.59682	116.82676			
		4	2.00000e4	172.90190	115.67253			
		5	4.00000e4	341.59979	117.09609			
		6	1.00000e5	839.73962	119.08453			
		7	2.00000e5	1681.10107	118.96965			
6.832	2	1	2000.00000	6.07634	329.14529			1-Methylnaphthalene (UV)
		2	4000.00000	12.02570	332.62101			
		3	1.00000e4	30.92526	323.36029			
		4	2.00000e4	62.05173	322.31170			
		5	4.00000e4	122.53880	326.42721			
		6	1.00000e5	302.71973	330.33856			
		7	2.00000e5	608.23541	328.82005			
6.872	3	1	2000.00000	26.32489	75.97373			1-Methylnaphthalene (F)
		2	4000.00000	52.31355	76.46202			
		3	1.00000e4	131.50134	76.04485			
		4	2.00000e4	266.55655	75.03098			
		5	4.00000e4	526.67639	75.94796			
		6	1.00000e5	1276.22900	78.35584			
7.280	1	1	500.00000	5.56723	89.81128			2-Methylnaphthalene
		2	1000.00000	11.21599	89.15845			
		3	2500.00000	28.88600	86.54713			
		4	5000.00000	58.62328	85.29035			
		5	1.00000e4	116.21339	86.04861			
		6	2.50000e4	286.22339	87.34436			
7.335	3	1	500.00000	7.99274	62.55677			2-Methylnaphthalene
		2	1000.00000	15.91236	62.84423			
		3	2500.00000	40.03383	62.44718			
		4	5000.00000	81.15388	61.61135			
		5	1.00000e4	161.03452	62.09849			
		6	2.50000e4	395.10352	63.27456			
7.672	1	1	500.00000	2.42577	206.12028			Acenaphthene
		2	1000.00000	4.86201	205.67637			
		3	2500.00000	12.71169	196.66929			
		4	5000.00000	25.83322	193.54924			
		5	1.00000e4	51.07816	195.77838			
		6	2.50000e4	125.66128	198.94752			
		7	5.00000e4	249.59686	200.32303			
7.712	3	1	500.00000	12.09695	41.33272			Acenaphthene
		2	1000.00000	24.11610	41.46607			
		3	2500.00000	60.52220	41.30716			
		4	5000.00000	122.93717	40.67118			
		5	1.00000e4	243.99982	40.98364			
		6	2.50000e4	597.90503	41.81266			
8.199	1	1	100.00000	6.23287	16.04397			Fluorene
		2	200.00000	12.36933	16.16903			
		3	500.00000	31.54358	15.85108			
		4	1000.00000	63.90393	15.64849			
		5	2000.00000	126.50168	15.81007			
		6	5000.00000	313.40030	15.95404			
		7	1.00000e4	629.23938	15.89220			
8.239	3	1	100.00000	13.29075	7.52403			Fluorene
		2	200.00000	26.56478	7.52876			
		3	500.00000	66.85545	7.47882			
		4	1000.00000	134.87556	7.41424			
		5	2000.00000	266.58530	7.50229			
		6	5000.00000	651.29639	7.67700			
9.318	1	1	50.00000	9.00343	5.55344			Phenanthrene

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RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	100.00000	17.66359	5.66136			
		3	250.00000	45.08168	5.54549			
		4	500.00000	91.29965	5.47647			
		5	1000.00000	180.14212	5.55117			
		6	2500.00000	446.01529	5.60519			
		7	5000.00000	897.40991	5.57159			
9.358	3	1	50.00000	7.01743	7.12511			Phenanthrene
		2	100.00000	14.14166	7.07130			
		3	250.00000	35.38944	7.06425			
		4	500.00000	71.59289	6.98393			
		5	1000.00000	141.86461	7.04897			
		6	2500.00000	346.48584	7.21530			
		7	5000.00000	693.25409	7.21236			
10.346	1	1	50.00000	20.15521	2.48075			Anthracene
		2	100.00000	40.32065	2.48012			
		3	250.00000	101.99684	2.45106			
		4	500.00000	206.70654	2.41889			
		5	1000.00000	408.35837	2.44883			
		6	2500.00000	1010.66217	2.47363			
		7	5000.00000	2024.80078	2.46938			
10.386	3	1	50.00000	20.52480	2.43608			Anthracene
		2	100.00000	40.89180	2.44548			
		3	250.00000	103.54391	2.41443			
		4	500.00000	210.14381	2.37932			
		5	1000.00000	414.05106	2.41516			
		6	2500.00000	1026.49353	2.43548			
		7	5000.00000	2059.37134	2.42793			
11.504	1	1	100.00000	4.05160	24.68162			Fluoranthene
		2	200.00000	8.01856	24.94213			
		3	500.00000	20.35011	24.56989			
		4	1000.00000	41.57235	24.05445			
		5	2000.00000	82.13621	24.34980			
		6	5000.00000	203.73349	24.54187			
		7	1.00000e4	411.60339	24.29523			
11.543	3	1	100.00000	4.08160	24.50019			Fluoranthene
		2	200.00000	8.04222	24.86875			
		3	500.00000	20.46036	24.43750			
		4	1000.00000	41.54289	24.07151			
		5	2000.00000	82.12543	24.35299			
		6	5000.00000	203.17122	24.60978			
		7	1.00000e4	408.57028	24.47559			
12.274	1	1	50.00000	1.62059	30.85291			Pyrene
		2	100.00000	3.19098	31.33834			
		3	250.00000	8.29422	30.14147			
		4	500.00000	16.68730	29.96290			
		5	1000.00000	32.97289	30.32795			
		6	2500.00000	82.77225	30.20336			
		7	5000.00000	168.06082	29.75113			
12.313	3	1	50.00000	6.78313	7.37123			Pyrene
		2	100.00000	13.19262	7.58000			
		3	250.00000	33.54156	7.45344			
		4	500.00000	68.45862	7.30368			
		5	1000.00000	134.23868	7.44942			
		6	2500.00000	328.05682	7.62063			
		7	5000.00000	665.85370	7.50916			
15.125	1	1	50.00000	4.23180	11.81530			Benzo(a)anthracene
		2	100.00000	9.04188	11.05964			
		3	250.00000	22.65013	11.03746			
		4	500.00000	45.84408	10.90653			
		5	1000.00000	91.03773	10.98446			
		6	2500.00000	225.67519	11.07787			
		7	5000.00000	459.00107	10.89322			
15.164	3	1	50.00000	7.53349	6.63703			Benzo(a)anthracene

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	100.00000	14.92142	6.70177			
		3	250.00000	38.11910	6.55839			
		4	500.00000	77.56648	6.44608			
		5	1000.00000	152.59743	6.55319			
		6	2500.00000	376.53439	6.63950			
		7	5000.00000	759.30841	6.58494			
15.624	1	1	50.00000	6.49550	7.69764			Chrysene
		2	100.00000	12.97757	7.70560			
		3	250.00000	32.97633	7.58119			
		4	500.00000	67.56745	7.40001			
		5	1000.00000	133.20935	7.50698			
		6	2500.00000	330.15082	7.57230			
		7	5000.00000	667.71228	7.48826			
15.664	3	1	50.00000	9.15220	5.46317			Chrysene
		2	100.00000	18.25678	5.47742			
		3	250.00000	46.59403	5.36549			
		4	500.00000	94.90897	5.26821			
		5	1000.00000	187.15659	5.34312			
		6	2500.00000	460.78613	5.42551			
		7	5000.00000	922.53937	5.41982			
17.842	1	1	100.00000	9.89154	10.10965			Benzo(b)fluoranthene
		2	200.00000	20.49215	9.75983			
		3	500.00000	52.71000	9.48587			
		4	1000.00000	107.62183	9.29180			
		5	2000.00000	213.82385	9.35349			
		6	5000.00000	529.55377	9.44191			
		7	1.00000e4	1067.59534	9.36684			
17.883	3	1	100.00000	6.61389	15.11970			Benzo(b)fluoranthene
		2	200.00000	13.10739	15.25857			
		3	500.00000	33.56808	14.89510			
		4	1000.00000	68.05548	14.69389			
		5	2000.00000	134.33257	14.88842			
		6	5000.00000	331.92670	15.06357			
		7	1.00000e4	669.70776	14.93189			
18.796	1	1	50.00000	4.03241	12.39953			Benzo(k)fluoranthene
		2	100.00000	7.57503	13.20127			
		3	250.00000	19.62153	12.74110			
		4	500.00000	40.20050	12.43765			
		5	1000.00000	80.29658	12.45383			
		6	2500.00000	200.76387	12.45244			
		7	5000.00000	406.82126	12.29041			
18.837	3	1	50.00000	19.52037	2.56143			Benzo(k)fluoranthene
		2	100.00000	38.80871	2.57674			
		3	250.00000	99.01035	2.52499			
		4	500.00000	200.72287	2.49100			
		5	1000.00000	397.35812	2.51662			
		6	2500.00000	980.66785	2.54928			
		7	5000.00000	1952.04028	2.56142			
19.734	1	1	50.00000	3.90437	12.80616			Benzo(a)pyrene
		2	100.00000	8.12252	12.31145			
		3	250.00000	21.05889	11.87147			
		4	500.00000	43.33799	11.53722			
		5	1000.00000	86.29072	11.58873			
		6	2500.00000	215.14328	11.62016			
		7	5000.00000	435.20081	11.48895			
19.774	3	1	50.00000	10.62241	4.70703			Benzo(a)pyrene
		2	100.00000	21.12371	4.73402			
		3	250.00000	54.04917	4.62542			
		4	500.00000	109.65622	4.55970			
		5	1000.00000	216.76112	4.61337			
		6	2500.00000	534.25336	4.67943			
		7	5000.00000	1071.43713	4.66663			
21.335	1	1	100.00000	1.74457	57.32080			Dibenz(a,h)anthracene

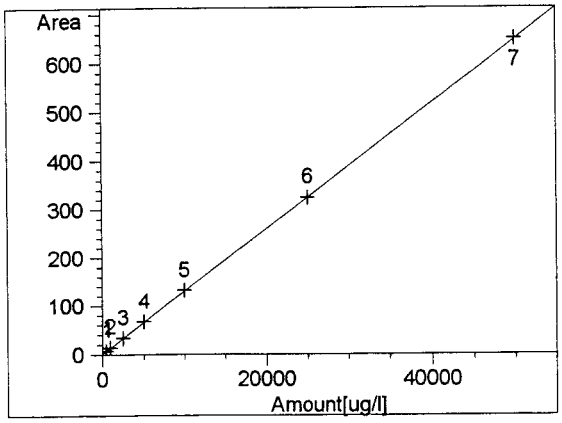
Method G:\HPLC4\METHODS\8310-315.M

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	200.00000	4.18672	47.77004			
		3	500.00000	10.15091	49.25669			
		4	1000.00000	20.86957	47.91665			
		5	2000.00000	42.28377	47.29947			
		6	5000.00000	106.57118	46.91700			
		7	1.00000e4	215.69028	46.36278			
21.376	3	1	100.00000	2.98045	33.55199			Dibenz(a,h)anthracene
		2	200.00000	5.97678	33.46283			
		3	500.00000	15.56407	32.12527			
		4	1000.00000	31.90387	31.34416			
		5	2000.00000	63.43048	31.53058			
		6	5000.00000	158.05646	31.63427			
		7	1.00000e4	319.90201	31.25957			
22.099	1	1	100.00000	3.32142	30.10762			Benzo(g,h,i)perylene
		2	200.00000	6.91262	28.93260			
		3	500.00000	17.35672	28.80728			
		4	1000.00000	35.38666	28.25924			
		5	2000.00000	70.51058	28.36454			
		6	5000.00000	176.29678	28.36127			
		7	1.00000e4	357.48672	27.97307			
22.140	3	1	100.00000	6.17302	16.19953			Benzo(g,h,i)perylene
		2	200.00000	12.25580	16.31880			
		3	500.00000	31.30061	15.97413			
		4	1000.00000	64.07645	15.60636			
		5	2000.00000	127.25459	15.71653			
		6	5000.00000	316.47900	15.79884			
		7	1.00000e4	638.82190	15.65382			
22.620	1	1	50.00000	4.21460	11.86352			Indeno(1,2,3-cd)pyrene
		2	100.00000	8.38093	11.93185			
		3	250.00000	22.88771	10.92289			
		4	500.00000	47.41936	10.54422			
		5	1000.00000	94.73141	10.55616			
		6	2500.00000	236.57013	10.56769			
		7	5000.00000	476.41440	10.49506			
22.661	3	1	50.00000	4.64120	10.77307			Indeno(1,2,3-cd)pyrene
		2	100.00000	9.29544	10.75796			
		3	250.00000	23.65410	10.56899			
		4	500.00000	48.39191	10.33231			
		5	1000.00000	96.65224	10.34637			
		6	2500.00000	240.76752	10.38346			
		7	5000.00000	486.34088	10.28085			

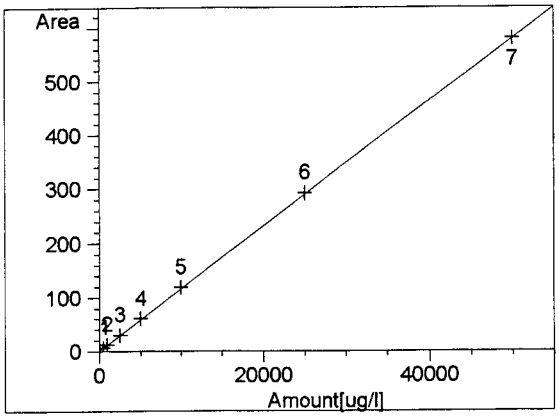
Peak Sum Table

No Entries in table

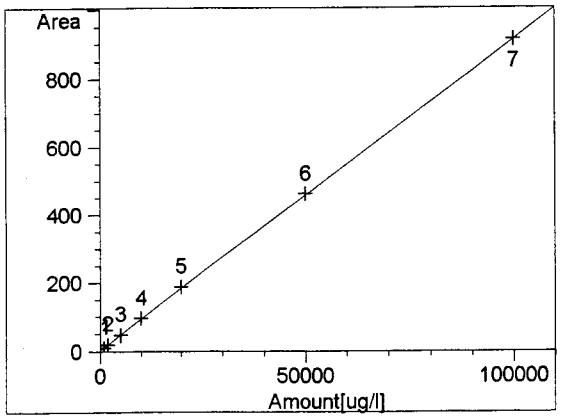
Calibration Curves



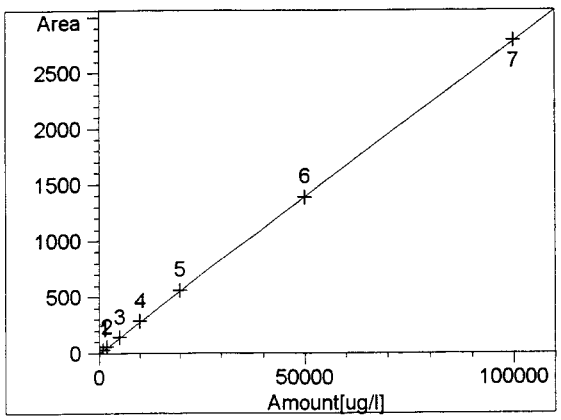
Naphthalene at exp. RT: 4.798
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.66440
Formula: y = mx + b
m: 1.29671e-2
b: 3.20474e-1
x: Amount[ug/l]
y: Area



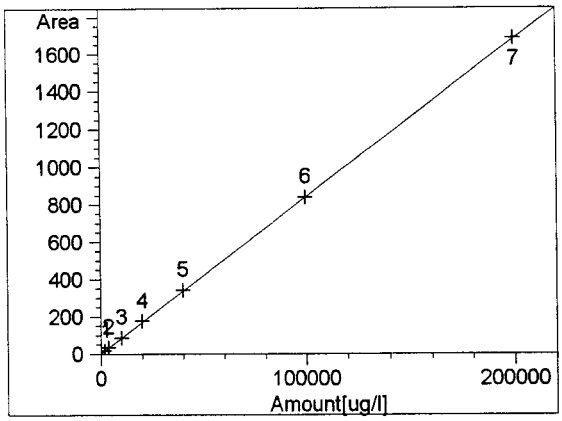
Naphthalene at exp. RT: 4.839
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.21267
Formula: y = mx + b
m: 1.15969e-2
b: 1.09732
x: Amount[ug/l]
y: Area



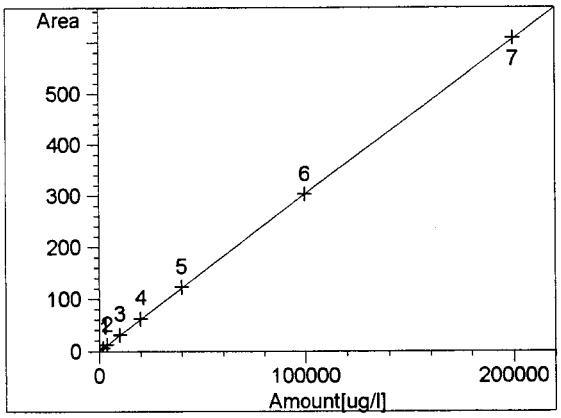
Acenaphthylene at exp. RT: 6.052
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 2.57482
Formula: y = mx + b
m: 9.13868e-3
b: 1.95971
x: Amount[ug/l]
y: Area



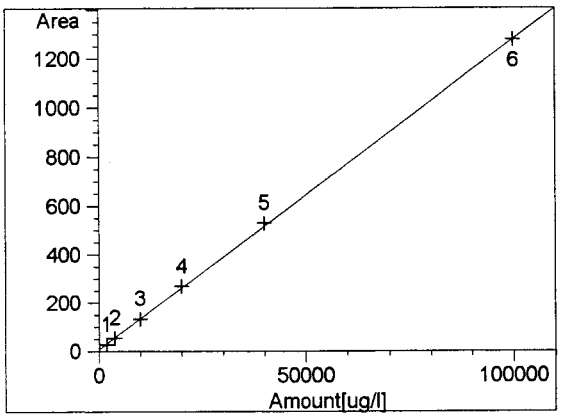
Acenaphthylene at exp. RT: 6.053
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 3.95166
Formula: y = mx + b
m: 2.78746e-2
b: -2.10217e-1
x: Amount[ug/l]
y: Area



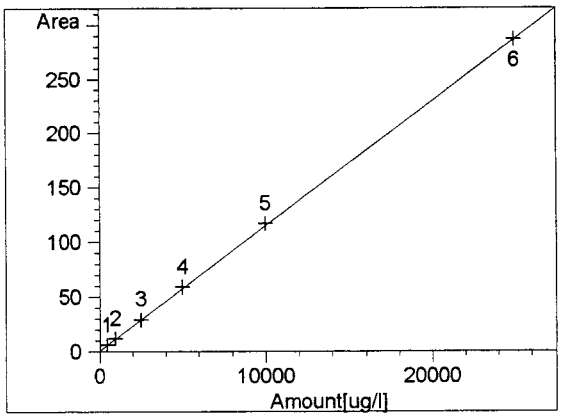
1-Methylnaphthalene (UV) at exp. RT: 6.831
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 2.56891
Formula: y = mx + b
m: 8.39433e-3
b: 2.20489
x: Amount[ug/l]
y: Area



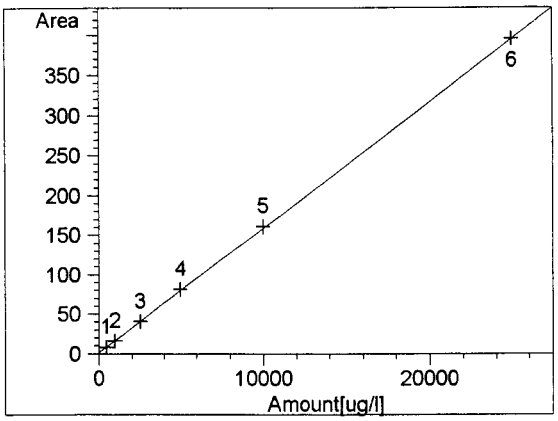
1-Methylnaphthalene (UV) at exp. RT: 6.832
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.87319
Formula: y = mx + b
m: 3.03699e-3
b: 3.80514e-1
x: Amount[ug/l]
y: Area



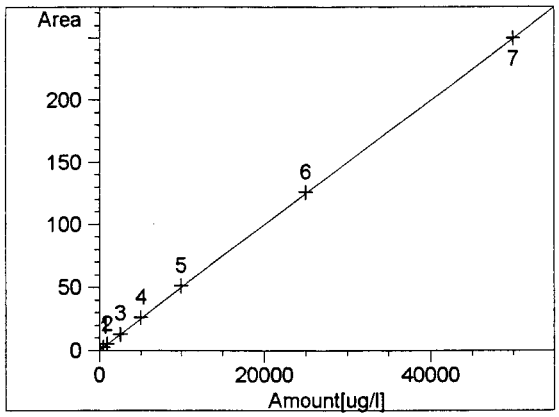
1-Methylnaphthalene (F) at exp. RT: 6.872
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99990
Residual Std. Dev.: 7.42050
Formula: y = mx + b
m: 1.27534e-2
b: 5.83375
x: Amount[ug/l]
y: Area



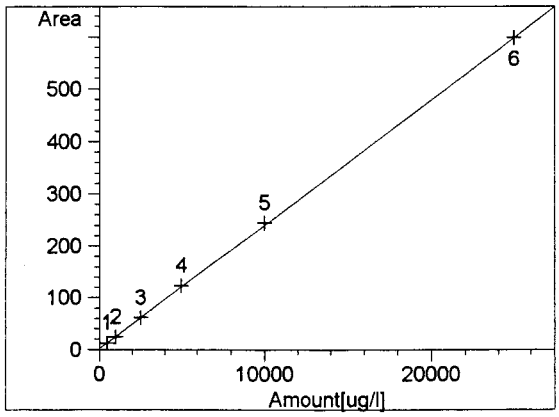
2-Methylnaphthalene at exp. RT: 7.280
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 0.93927
Formula: y = mx + b
m: 1.14550e-2
b: 4.51222e-1
x: Amount[ug/l]
y: Area



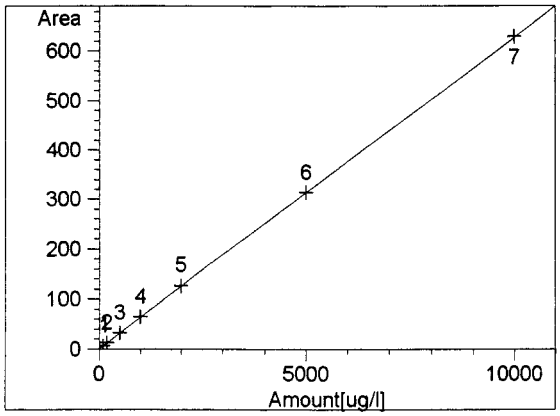
2-Methylnaphthalene at exp. RT: 7.335
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 1.42306
Formula: y = mx + b
m: 1.58022e-2
b: 9.88789e-1
x: Amount[ug/l]
y: Area



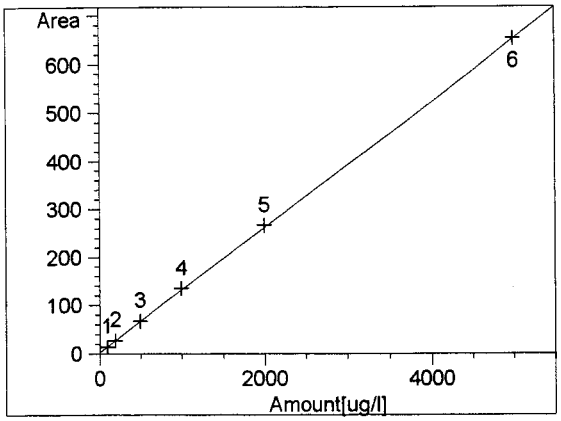
Acenaphthene at exp. RT: 7.672
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.58330
Formula: y = mx + b
m: 4.99125e-3
b: 4.27298e-1
x: Amount[ug/l]
y: Area



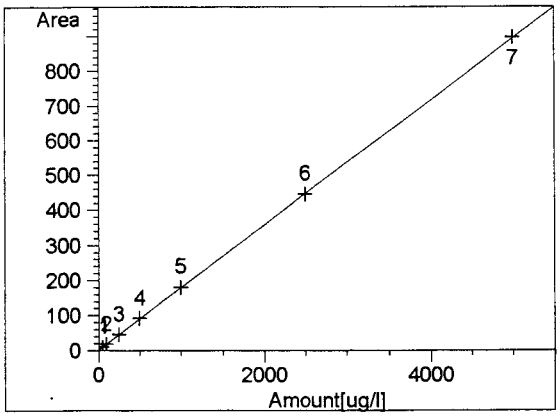
Acenaphthene at exp. RT: 7.712
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 2.28893
Formula: y = mx + b
m: 2.39146e-2
b: 1.55557
x: Amount[ug/l]
y: Area



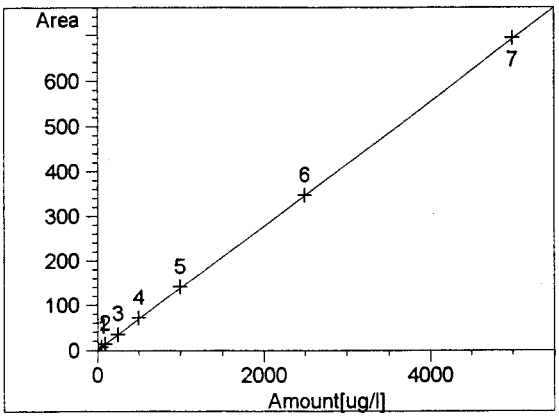
Fluorene at exp. RT: 8.199
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.73220
Formula: y = mx + b
m: 6.28687e-2
b: 1.80023e-1
x: Amount[ug/l]
y: Area



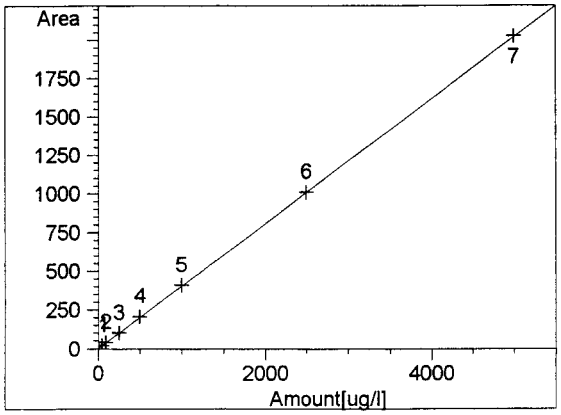
Fluorene at exp. RT: 8.239
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99995
Residual Std. Dev.: 2.84162
Formula: y = mx + b
m: 1.30167e-1
b: 2.33256
x: Amount[ug/l]
y: Area



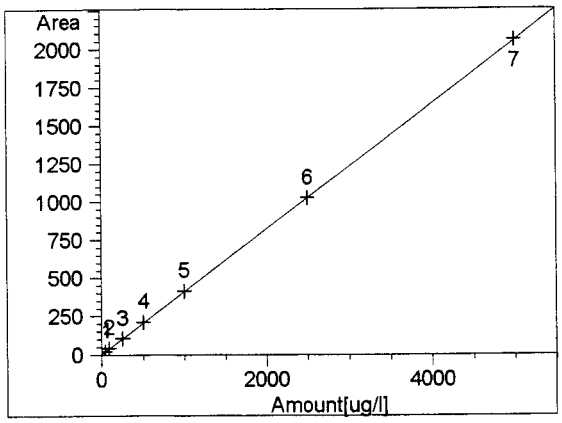
Phenanthrene at exp. RT: 9.318
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 1.35222
Formula: y = mx + b
m: 1.79253e-1
b: 2.33836e-1
x: Amount[ug/l]
y: Area



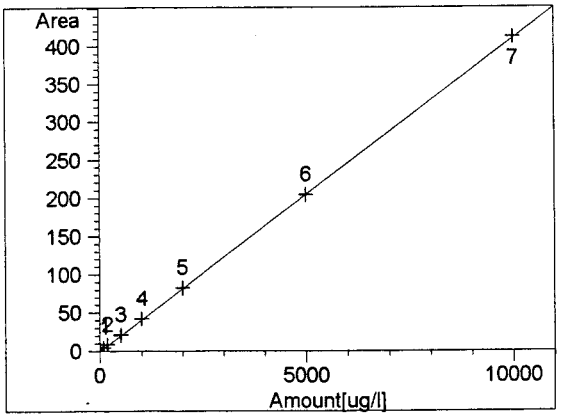
Phenanthrene at exp. RT: 9.358
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.35775
Formula: y = mx + b
m: 1.38429e-1
b: 1.21609
x: Amount[ug/l]
y: Area



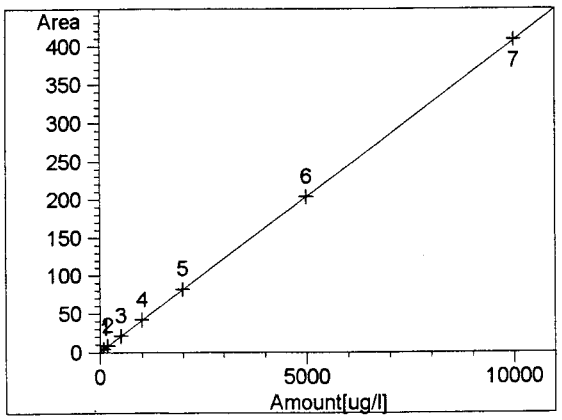
Anthracene at exp. RT: 10.346
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 2.21901
Formula: y = mx + b
m: 4.04598e-1
b: 1.39720
x: Amount[ug/l]
y: Area



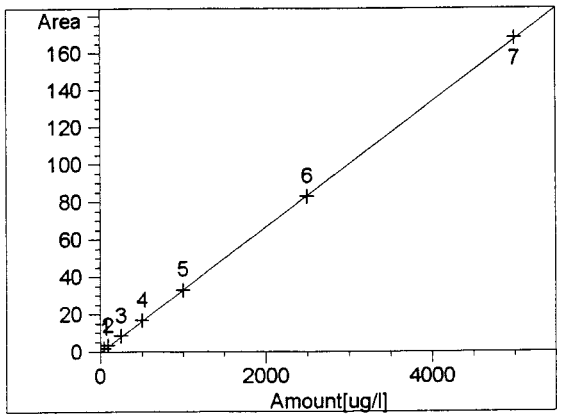
Anthracene at exp. RT: 10.386
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 2.36890
Formula: y = mx + b
m: 4.11465e-1
b: 1.03508
x: Amount[ug/l]
y: Area



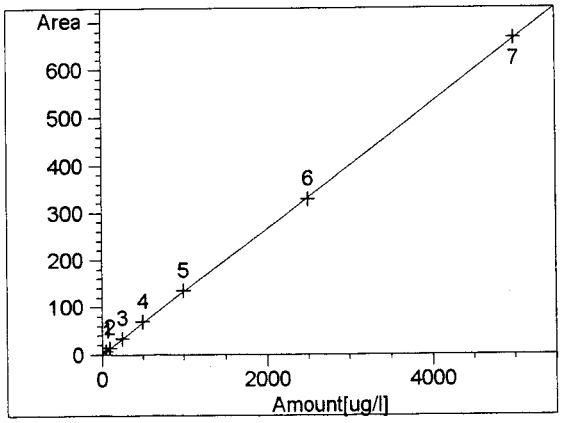
Fluoranthene at exp. RT: 11.504
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.84613
Formula: y = mx + b
m: 4.11083e-2
b: -1.95725e-1
x: Amount[ug/l]
y: Area



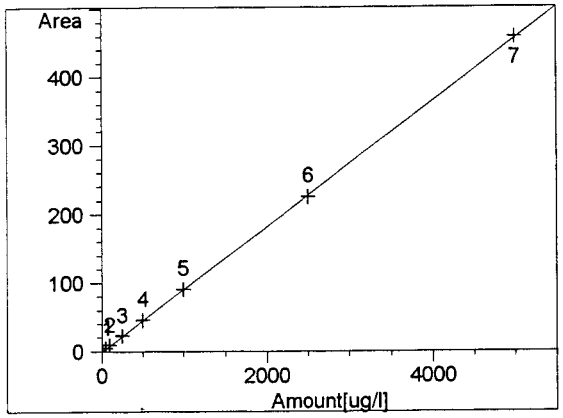
Fluoranthene at exp. RT: 11.543
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.58645
Formula: y = mx + b
m: 4.08100e-2
b: 1.09457e-1
x: Amount[ug/l]
y: Area



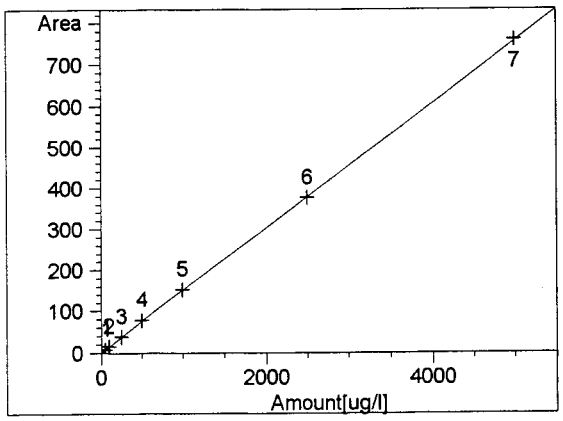
Pyrene at exp. RT: 12.274
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 0.49621
Formula: y = mx + b
m: 3.35757e-2
b: -2.87441e-1
x: Amount[ug/l]
y: Area



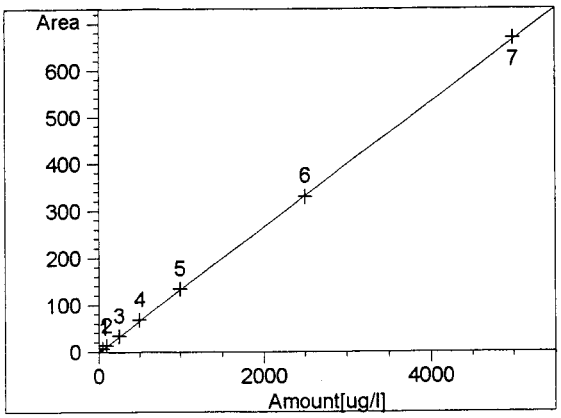
Pyrene at exp. RT: 12.313
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 2.23433
Formula: y = mx + b
m: 1.32777e-1
b: 2.88948e-1
x: Amount[ug/l]
y: Area



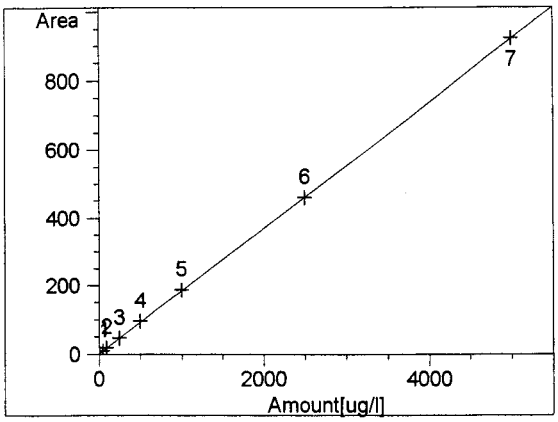
Benzo(a)anthracene at exp. RT: 15.125
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 1.46481
Formula: y = mx + b
m: 9.16421e-2
b: -5.64799e-1
x: Amount[ug/l]
y: Area



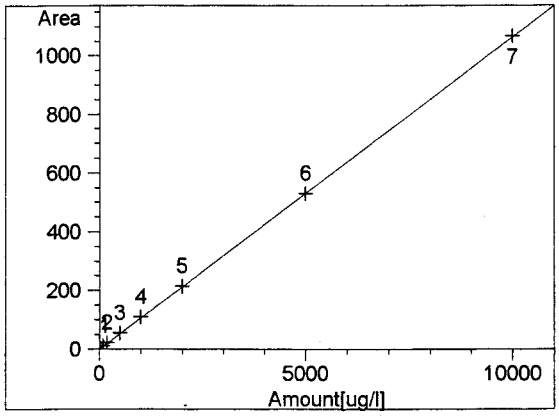
Benzo(a)anthracene at exp. RT: 15.164
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.52788
Formula: y = mx + b
m: 1.51611e-1
b: 2.05410e-1
x: Amount[ug/l]
y: Area



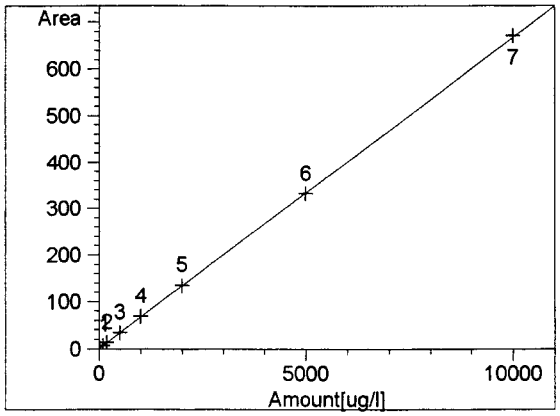
Chrysene at exp. RT: 15.624
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 1.52322
Formula: y = mx + b
m: 1.33357e-1
b: -3.52762e-1
x: Amount[ug/l]
y: Area



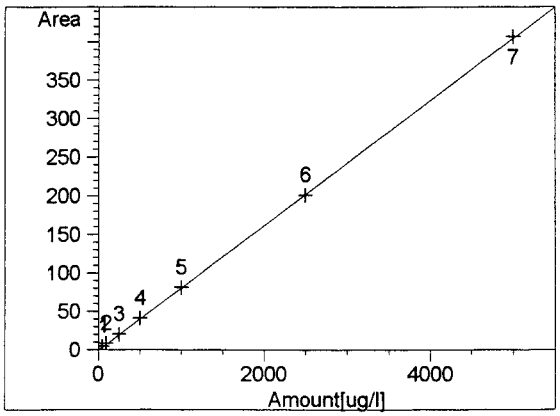
Chrysene at exp. RT: 15.664
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.42864
Formula: y = mx + b
m: 1.84313e-1
b: 9.78301e-1
x: Amount[ug/l]
y: Area



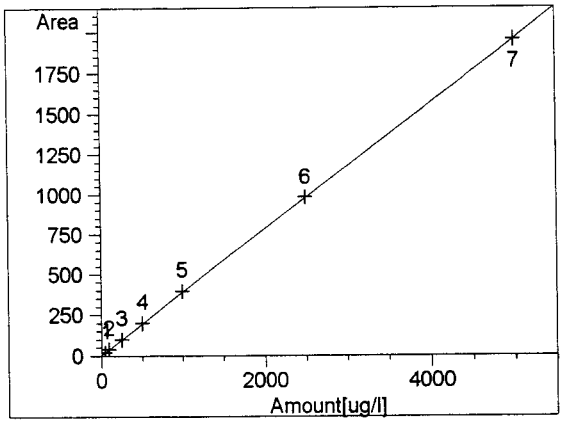
Benzo(b)fluoranthene at exp. RT: 17.842
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 1.79272
Formula: y = mx + b
m: 1.06686e-1
b: -5.73080e-1
x: Amount[ug/l]
y: Area



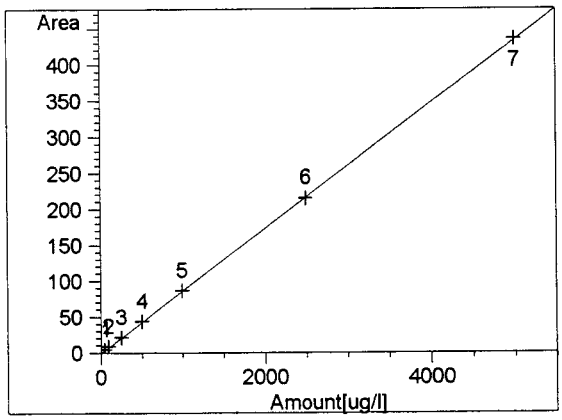
Benzo(b)fluoranthene at exp. RT: 17.883
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.32175
Formula: y = mx + b
m: 6.68690e-2
b: 2.49898e-2
x: Amount[ug/l]
y: Area



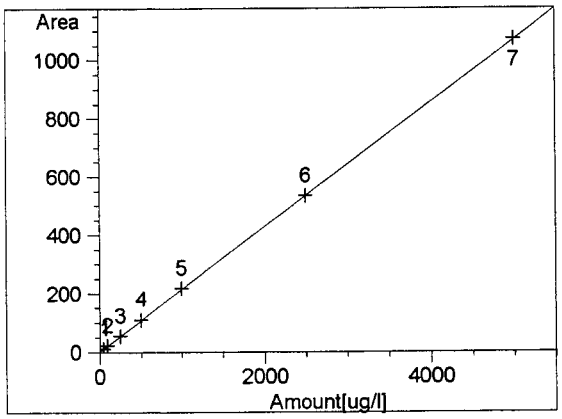
Benzo(k)fluoranthene at exp. RT: 18.796
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.98396
Formula: y = mx + b
m: 8.13261e-2
b: -7.36369e-1
x: Amount[ug/l]
y: Area



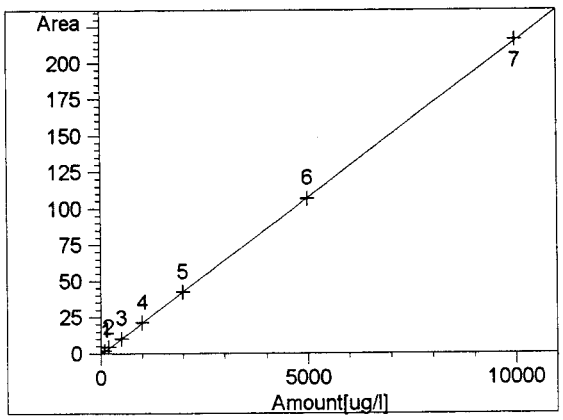
Benzo(k)fluoranthene at exp. RT: 18.837
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 3.29157
Formula: y = mx + b
m: 3.90262e-1
b: 2.80891
x: Amount[ug/l]
y: Area



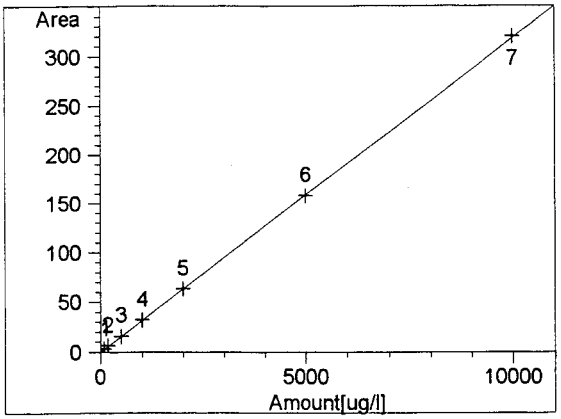
Benzo(a)pyrene at exp. RT: 19.734
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.88457
Formula: y = mx + b
m: 8.70219e-2
b: -7.06704e-1
x: Amount[ug/l]
y: Area



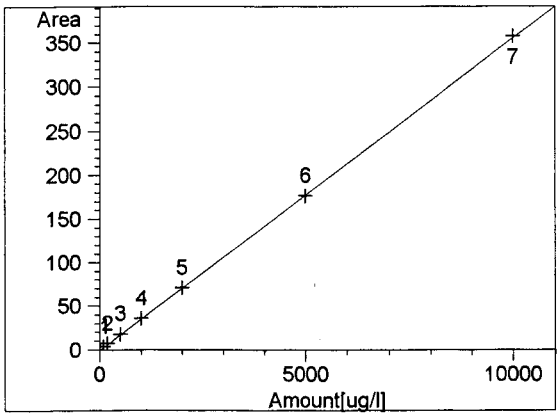
Benzo(a)pyrene at exp. RT: 19.774
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.54630
Formula: y = mx + b
m: 2.14053e-1
b: 8.29784e-1
x: Amount[ug/l]
y: Area



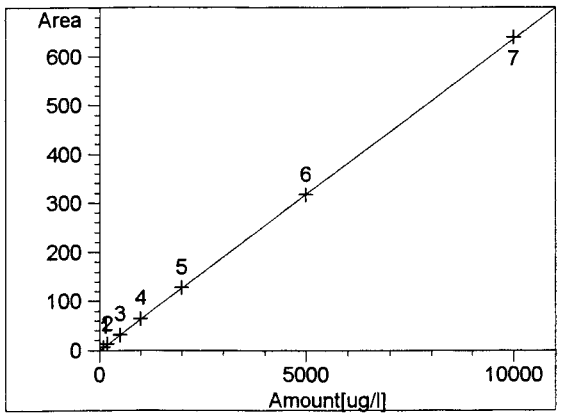
Dibenz(a,h)anthracene at exp. RT: 21.335
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.47152
Formula: y = mx + b
m: 2.15889e-2
b: -6.24820e-1
x: Amount[ug/l]
y: Area



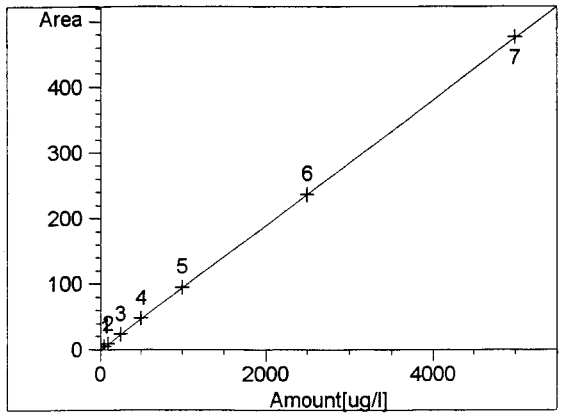
Dibenz(a,h)anthracene at exp. RT: 21.376
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.69795
Formula: y = mx + b
m: 3.19738e-2
b: -4.70523e-1
x: Amount[ug/l]
y: Area



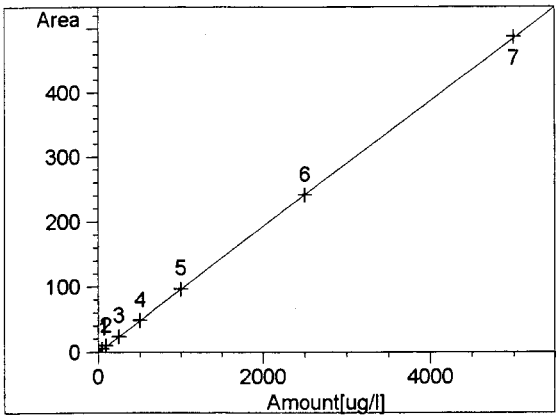
Benzo(g,h,i)perylene at exp. RT: 22.099
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.90912
Formula: y = mx + b
m: 3.57236e-2
b: -6.18946e-1
x: Amount[ug/l]
y: Area



Benzo(g,h,i)perylene at exp. RT: 22.140
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.13249
Formula: y = mx + b
m: 6.38382e-2
b: -5.42335e-1
x: Amount[ug/l]
y: Area



Indeno(1,2,3-cd)pyrene at exp. RT: 22.620
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.59301
Formula: y = mx + b
m: 9.53650e-2
b: -8.30323e-1
x: Amount[ug/l]
y: Area



Indeno(1,2,3-cd)pyrene at exp. RT: 22.661
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.87865
Formula: y = mx + b
m: 9.72272e-2
b: -5.98930e-1
x: Amount[ug/l]
y: Area

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CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185679 HPLC Water
EPA 8310

Inst : HPLC04
Calnum : 295454249001 Cal Date: 11-NOV-2005

ICV 295454249015 (31500015 11-NOV-2005) stds: S1859

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1	5000	5429	ug/L	9	15	
Acenaphthylene	1	10000	11450	ug/L	14	15	
Acenaphthene	1	5000	5731	ug/L	15	15	
Fluorene	1	1000	1083	ug/L	8	15	
Phenanthrene	1	500.0	527.1	ug/L	5	15	
Anthracene	1	500.0	541.6	ug/L	8	15	
Fluoranthene	1	1000	1095	ug/L	9	15	
Pyrene	1	500.0	544.7	ug/L	9	15	
Benzo(a)anthracene	1	500.0	539.7	ug/L	8	15	
Chrysene	1	500.0	541.3	ug/L	8	15	
Benzo(b)fluoranthene	1	1000	1079	ug/L	8	15	
Benzo(k)fluoranthene	1	500.0	541.4	ug/L	8	15	
Benzo(a)pyrene	1	500.0	528.7	ug/L	6	15	
Dibenz(a,h)anthracene	1	1000	1083	ug/L	8	15	
Benzo(g,h,i)perylene	1	1000	1068	ug/L	7	15	
Indeno(1,2,3-cd)pyrene	1	500.0	543.1	ug/L	9	15	
Acenaphthylene	2	10000	10910	ug/L	9	15	
Naphthalene	3	5000	5415	ug/L	8	15	
Acenaphthene	3	5000	5652	ug/L	13	15	
Fluorene	3	1000	1080	ug/L	8	15	
Phenanthrene	3	500.0	519.8	ug/L	4	15	
Anthracene	3	500.0	542.4	ug/L	8	15	
Fluoranthene	3	1000	1101	ug/L	10	15	
Pyrene	3	500.0	543.9	ug/L	9	15	
Benzo(a)anthracene	3	500.0	536.6	ug/L	7	15	
Chrysene	3	500.0	537.3	ug/L	7	15	
Benzo(b)fluoranthene	3	1000	1079	ug/L	8	15	
Benzo(k)fluoranthene	3	500.0	544.4	ug/L	9	15	
Benzo(a)pyrene	3	500.0	526.8	ug/L	5	15	
Dibenz(a,h)anthracene	3	1000	1078	ug/L	8	15	
Benzo(g,h,i)perylene	3	1000	1049	ug/L	5	15	
Indeno(1,2,3-cd)pyrene	3	500.0	542.2	ug/L	8	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185679 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: L IDF : 1.0
Seqnum : 296127555002 File : 08800002 Time : 29-MAR-2006 14:27
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2256

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0150	2500	2860	ug/L	14	15	
Acenaphthylene	1	0.0093	0.0098	5000	5170	ug/L	3	15	
Acenaphthene	1	0.0050	0.0058	2500	2811	ug/L	12	15	
Fluorene	1	0.0629	0.0667	500.0	527.3	ug/L	5	15	
Phenanthrene	1	0.1797	0.1919	250.0	266.4	ug/L	7	15	
Anthracene	1	0.4065	0.4538	250.0	276.9	ug/L	11	15	
Fluoranthene	1	0.0408	0.0425	500.0	522.0	ug/L	4	15	
Pyrene	1	0.0329	0.0362	250.0	278.1	ug/L	11	15	
Benzo(a)anthracene	1	0.0901	0.1018	250.0	283.8	ug/L	14	15	
Chrysene	1	0.1322	0.1450	250.0	274.5	ug/L	10	15	
Benzo(b)fluoranthene	1	0.1049	0.1115	500.0	528.1	ug/L	6	15	
Benzo(k)fluoranthene	1	0.0796	0.0868	250.0	275.9	ug/L	10	15	
Benzo(a)pyrene	1	0.0842	0.0939	250.0	277.9	ug/L	11	15	
Dibenz(a,h)anthracene	1	0.0205	0.0215	500.0	525.8	ug/L	5	15	
Benzo(g,h,i)perylene	1	0.0349	0.0364	500.0	527.3	ug/L	5	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.1005	250.0	272.2	ug/L	9	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0084	50000	50020	ug/L	0	15	
Acenaphthylene	2	0.0277	0.0299	5000	5366	ug/L	7	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	49650	ug/L	-1	15	
Naphthalene	3	0.0118	0.0122	2500	2537	ug/L	1	15	
Acenaphthene	3	0.0242	0.0255	2500	2603	ug/L	4	15	
Fluorene	3	0.1330	0.1379	500.0	512.0	ug/L	2	15	
Phenanthrene	3	0.1408	0.1480	250.0	258.5	ug/L	3	15	
Anthracene	3	0.4129	0.4581	250.0	275.8	ug/L	10	15	
Fluoranthene	3	0.0409	0.0417	500.0	508.4	ug/L	2	15	
Pyrene	3	0.1339	0.1456	250.0	271.9	ug/L	9	15	
Benzo(a)anthracene	3	0.1518	0.1656	250.0	271.6	ug/L	9	15	
Chrysene	3	0.1854	0.1953	250.0	259.6	ug/L	4	15	
Benzo(b)fluoranthene	3	0.0668	0.0685	500.0	512.0	ug/L	2	15	
Benzo(k)fluoranthene	3	0.3937	0.4173	250.0	260.2	ug/L	4	15	
Benzo(a)pyrene	3	0.2148	0.2344	250.0	269.9	ug/L	8	15	
Dibenz(a,h)anthracene	3	0.0311	0.0323	500.0	519.5	ug/L	4	15	
Benzo(g,h,i)perylene	3	0.0629	0.0636	500.0	506.5	ug/L	1	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.1007	250.0	265.1	ug/L	6	15	
1-Methylnaphthalene (F)	3	0.0131	0.0124	50000	48330	ug/L	-3	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185679 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: M IDF : 1.0
Seqnum : 296127555011 File : 08800011 Time : 29-MAR-2006 19:11
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2255

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0138	5000	5293	ug/L	6	15	
Acenaphthylene	1	0.0093	0.0097	10000	10400	ug/L	4	15	
Acenaphthene	1	0.0050	0.0055	5000	5415	ug/L	8	15	
Fluorene	1	0.0629	0.0655	1000	1038	ug/L	4	15	
Phenanthrene	1	0.1797	0.1868	500.0	519.7	ug/L	4	15	
Anthracene	1	0.4065	0.4442	500.0	545.5	ug/L	9	15	
Fluoranthene	1	0.0408	0.0418	1000	1022	ug/L	2	15	
Pyrene	1	0.0329	0.0353	500.0	533.8	ug/L	7	15	
Benzo(a)anthracene	1	0.0901	0.1016	500.0	560.7	ug/L	12	15	
Chrysene	1	0.1322	0.1414	500.0	532.9	ug/L	7	15	
Benzo(b)fluoranthene	1	0.1049	0.1113	1000	1048	ug/L	5	15	
Benzo(k)fluoranthene	1	0.0796	0.0864	500.0	540.5	ug/L	8	15	
Benzo(a)pyrene	1	0.0842	0.0928	500.0	541.5	ug/L	8	15	
Dibenz(a,h)anthracene	1	0.0205	0.0227	1000	1082	ug/L	8	15	
Benzo(g,h,i)perylene	1	0.0349	0.0369	1000	1050	ug/L	5	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.1050	500.0	559.4	ug/L	12	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0083	50000	49050	ug/L	-2	15	
Acenaphthylene	2	0.0277	0.0293	10000	10530	ug/L	5	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	48520	ug/L	-3	15	
Naphthalene	3	0.0118	0.0117	5000	4935	ug/L	-1	15	
Acenaphthene	3	0.0242	0.0245	5000	5062	ug/L	1	15	
Fluorene	3	0.1330	0.1333	1000	1007	ug/L	1	15	
Phenanthrene	3	0.1408	0.1414	500.0	501.9	ug/L	0	15	
Anthracene	3	0.4129	0.4475	500.0	541.3	ug/L	8	15	
Fluoranthene	3	0.0409	0.0408	1000	996.7	ug/L	0	15	
Pyrene	3	0.1339	0.1407	500.0	527.5	ug/L	5	15	
Benzo(a)anthracene	3	0.1518	0.1622	500.0	533.6	ug/L	7	15	
Chrysene	3	0.1854	0.1894	500.0	508.5	ug/L	2	15	
Benzo(b)fluoranthene	3	0.0668	0.0676	1000	1010	ug/L	1	15	
Benzo(k)fluoranthene	3	0.3937	0.4115	500.0	520.0	ug/L	4	15	
Benzo(a)pyrene	3	0.2148	0.2266	500.0	525.5	ug/L	5	15	
Dibenz(a,h)anthracene	3	0.0311	0.0327	1000	1039	ug/L	4	15	
Benzo(g,h,i)perylene	3	0.0629	0.0632	1000	999.2	ug/L	0	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.1027	500.0	534.2	ug/L	7	15	
1-Methylnaphthalene (F)	3	0.0131	0.0119	50000	46070	ug/L	-8	15	

SEQUENCE SUMMARY FOR 185679 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 295454249 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 11-NOV-2005
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	31500001	X	PRIMER - 315			11-NOV-2005 10:49	1.0						
002	31500002	X	PRIMER			11-NOV-2005 11:20	1.0						
003	31500003	X	IB - 315			11-NOV-2005 11:52	1.0						
004	31500004	X	IB			11-NOV-2005 12:24	1.0						
005	31500005	X	IB			11-NOV-2005 12:55	1.0						
006	31500006	ICAL				11-NOV-2005 13:27	1.0					1	
007	31500007	ICAL				11-NOV-2005 13:58	1.0					2	
008	31500008	ICAL				11-NOV-2005 14:30	1.0					3	
009	31500009	ICAL				11-NOV-2005 15:02	1.0					4	
010	31500010	ICAL				11-NOV-2005 15:33	1.0					5	
011	31500011	ICAL				11-NOV-2005 16:05	1.0					6	
012	31500012	ICAL				11-NOV-2005 16:36	1.0					7	
013	31500013	X	IB			11-NOV-2005 17:08	1.0						
014	31500014	X	IB			11-NOV-2005 17:40	1.0						
015	31500015	ICV				11-NOV-2005 18:11	1.0		10			8	251
016	31500016	X	ICV			11-NOV-2005 18:43	1.0					8	
017	31500017	X	IB			11-NOV-2005 19:14	1.0						

Stds used: 1=S1620 2=S1619 3=S1618 4=S1617 5=S1616 6=S1615 7=S1614 8=S1859

SEQUENCE SUMMARY FOR 185679 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296127555 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 29-MAR-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
001	08800001	X	IB - 088			29-MAR-2006 13:55	1.0				
002	08800002	CCV	L			29-MAR-2006 14:27	1.0	1.0	10	1	
003	08800003	X	IB			29-MAR-2006 14:58	1.0				
004	08800004	BLANK	QC333215	111729	Water	29-MAR-2006 15:30	1.0	0.002	10		
005	08800005	SAMPLE	185679-008	111729	Water	29-MAR-2006 16:02	1.0	0.001942	10		
006	08800006	SAMPLE	185679-007	111729	Water	29-MAR-2006 16:33	1.0	0.001942	10		
007	08800007	SAMPLE	185679-009	111729	Water	29-MAR-2006 17:05	1.0	0.001905	10		
008	08800008	BS	QC333216	111729	Water	29-MAR-2006 17:36	1.0	0.002	10		
009	08800009	BSD	QC333217	111729	Water	29-MAR-2006 18:08	1.0	0.002	10		
010	08800010	X	IB			29-MAR-2006 18:40	1.0				
011	08800011	CCV	M			29-MAR-2006 19:11	1.0	1.0	10	2	
012	08800012	X	CCV			29-MAR-2006 19:43	1.0			2	
013	08800013	X	IB			29-MAR-2006 20:15	1.0				

252

Stds used: 1=S2256 2=S2255

REPORTING SUMMARY FOR 185679 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185679-007	Naphthalene	HPLC04	1	03/29/06 16:33
185679-007	Acenaphthylene	HPLC04	1	03/29/06 16:33
185679-007	Acenaphthene	HPLC04	1	03/29/06 16:33
185679-007	Fluorene	HPLC04	1	03/29/06 16:33
185679-007	Phenanthrene	HPLC04	3	03/29/06 16:33
185679-007	Anthracene	HPLC04	3	03/29/06 16:33
185679-007	Fluoranthene	HPLC04	3	03/29/06 16:33
185679-007	Pyrene	HPLC04	3	03/29/06 16:33
185679-007	Benzo(a)anthracene	HPLC04	3	03/29/06 16:33
185679-007	Chrysene	HPLC04	3	03/29/06 16:33
185679-007	Benzo(b)fluoranthene	HPLC04	3	03/29/06 16:33
185679-007	Benzo(k)fluoranthene	HPLC04	3	03/29/06 16:33
185679-007	Benzo(a)pyrene	HPLC04	3	03/29/06 16:33
185679-007	Dibenz(a,h)anthracene	HPLC04	3	03/29/06 16:33
185679-007	Benzo(g,h,i)perylene	HPLC04	3	03/29/06 16:33
185679-007	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/29/06 16:33
185679-007	1-Methylnaphthalene (UV)	HPLC04	1	03/29/06 16:33
185679-007	1-Methylnaphthalene (F)	HPLC04	3	03/29/06 16:33
185679-008	Naphthalene	HPLC04	1	03/29/06 16:02
185679-008	Acenaphthylene	HPLC04	1	03/29/06 16:02
185679-008	Acenaphthene	HPLC04	1	03/29/06 16:02
185679-008	Fluorene	HPLC04	1	03/29/06 16:02
185679-008	Phenanthrene	HPLC04	3	03/29/06 16:02
185679-008	Anthracene	HPLC04	3	03/29/06 16:02
185679-008	Fluoranthene	HPLC04	3	03/29/06 16:02
185679-008	Pyrene	HPLC04	3	03/29/06 16:02
185679-008	Benzo(a)anthracene	HPLC04	3	03/29/06 16:02
185679-008	Chrysene	HPLC04	3	03/29/06 16:02
185679-008	Benzo(b)fluoranthene	HPLC04	3	03/29/06 16:02
185679-008	Benzo(k)fluoranthene	HPLC04	3	03/29/06 16:02
185679-008	Benzo(a)pyrene	HPLC04	3	03/29/06 16:02
185679-008	Dibenz(a,h)anthracene	HPLC04	3	03/29/06 16:02
185679-008	Benzo(g,h,i)perylene	HPLC04	3	03/29/06 16:02
185679-008	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/29/06 16:02
185679-008	1-Methylnaphthalene (UV)	HPLC04	1	03/29/06 16:02
185679-008	1-Methylnaphthalene (F)	HPLC04	3	03/29/06 16:02
185679-009	Naphthalene	HPLC04	1	03/29/06 17:05
185679-009	Acenaphthylene	HPLC04	1	03/29/06 17:05
185679-009	Acenaphthene	HPLC04	1	03/29/06 17:05
185679-009	Fluorene	HPLC04	1	03/29/06 17:05
185679-009	Phenanthrene	HPLC04	3	03/29/06 17:05
185679-009	Anthracene	HPLC04	3	03/29/06 17:05
185679-009	Fluoranthene	HPLC04	3	03/29/06 17:05
185679-009	Pyrene	HPLC04	3	03/29/06 17:05
185679-009	Benzo(a)anthracene	HPLC04	3	03/29/06 17:05
185679-009	Chrysene	HPLC04	3	03/29/06 17:05
185679-009	Benzo(b)fluoranthene	HPLC04	3	03/29/06 17:05
185679-009	Benzo(k)fluoranthene	HPLC04	3	03/29/06 17:05
185679-009	Benzo(a)pyrene	HPLC04	3	03/29/06 17:05
185679-009	Dibenz(a,h)anthracene	HPLC04	3	03/29/06 17:05
185679-009	Benzo(g,h,i)perylene	HPLC04	3	03/29/06 17:05
185679-009	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/29/06 17:05

REPORTING SUMMARY FOR 185679 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185679-009	1-Methylnaphthalene (UV)	HPLC04	1	03/29/06 17:05
185679-009	1-Methylnaphthalene (F)	HPLC04	3	03/29/06 17:05
QC333215	Naphthalene	HPLC04	1	03/29/06 15:30
QC333215	Acenaphthylene	HPLC04	1	03/29/06 15:30
QC333215	Acenaphthene	HPLC04	1	03/29/06 15:30
QC333215	Fluorene	HPLC04	1	03/29/06 15:30
QC333215	Phenanthrene	HPLC04	3	03/29/06 15:30
QC333215	Anthracene	HPLC04	3	03/29/06 15:30
QC333215	Fluoranthene	HPLC04	3	03/29/06 15:30
QC333215	Pyrene	HPLC04	3	03/29/06 15:30
QC333215	Benzo(a)anthracene	HPLC04	3	03/29/06 15:30
QC333215	Chrysene	HPLC04	3	03/29/06 15:30
QC333215	Benzo(b)fluoranthene	HPLC04	3	03/29/06 15:30
QC333215	Benzo(k)fluoranthene	HPLC04	3	03/29/06 15:30
QC333215	Benzo(a)pyrene	HPLC04	3	03/29/06 15:30
QC333215	Dibenz(a,h)anthracene	HPLC04	3	03/29/06 15:30
QC333215	Benzo(g,h,i)perylene	HPLC04	3	03/29/06 15:30
QC333215	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/29/06 15:30
QC333215	1-Methylnaphthalene (UV)	HPLC04	1	03/29/06 15:30
QC333215	1-Methylnaphthalene (F)	HPLC04	3	03/29/06 15:30
QC333216	Naphthalene	HPLC04	1	03/29/06 17:36
QC333216	Fluorene	HPLC04	1	03/29/06 17:36
QC333216	Pyrene	HPLC04	3	03/29/06 17:36
QC333216	Benzo(a)pyrene	HPLC04	3	03/29/06 17:36
QC333216	1-Methylnaphthalene (UV)	HPLC04	1	03/29/06 17:36
QC333216	1-Methylnaphthalene (F)	HPLC04	3	03/29/06 17:36
QC333217	Naphthalene	HPLC04	1	03/29/06 18:08
QC333217	Fluorene	HPLC04	1	03/29/06 18:08
QC333217	Pyrene	HPLC04	3	03/29/06 18:08
QC333217	Benzo(a)pyrene	HPLC04	3	03/29/06 18:08
QC333217	1-Methylnaphthalene (UV)	HPLC04	1	03/29/06 18:08
QC333217	1-Methylnaphthalene (F)	HPLC04	3	03/29/06 18:08

Curtis & Tompkins Laboratories **Sample Preparation Summary** **28-MAR-2006 19:07**

Batch Number : 111729
Date Extracted: 27-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : 8310
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2841X
Spike #2 ID : S2884A
Spike #3 ID :
SOP Version : 8310w_rv6

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185679-007		Treadwell & Rollo	Water	1030	mL	2	0.001942	1	6	.1	0		8310		
185679-008		Treadwell & Rollo	Water	1030	mL	2	0.001942	1	7	.1	0		8310		
185679-009		Treadwell & Rollo	Water	1050	mL	2	0.001905	1	6	.1	0		8310		
QC333215	BLANK		Water	1000	mL	2	0.002000	1		.1	0		8310		
QC333216	BS		Water	1000	mL	2	0.002000	1		.1	1		8310		
QC333217	BSD		Water	1000	mL	2	0.002000	1		.1	1		8310		

Prep Chemist: Jessie O'Mee Reviewed By: MOt Date: 3/28/06

Relinquished By: Kand Received By: Jm Date: 29MAR2006

Curtis & Tompkins, Ltd

8310 WATER PREP LOG

BK2190

LIMS Batch No: 111729
LIMS Analysis: 8310
Extracted by: JDM
Date Extracted: 27 Mar 06

Extraction Method:
- ☐ EPA 3510c sep. funnel
- ☒ EPA 3520c cont. L/L
- ☐ _____

Cleanup Method (if needed):
- ☐ EPA 3640a GPC
- ☐ EPA 3630c Silica Gel

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185679-007 G	1030	6	2.0		
↓ 08 M	1030	7	↓		
↓ 09 L	1050	6			
MB QC333215	1000	NA			
BS ↓ 16	↓	↓			
BSD ↓ 17	↓				
					MJM 3/28/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.1 mL of surrogate solution was added to all samples	S2841X	JDM 3/27/06
1.0 mL of matrix spiking solution was added to all spikes	S2884A	↓
☒ Samples continuously extracted with about 450 mL of CH_2Cl_2	EM46060	↓
Extraction Start Time:	1405	
Extraction End Time:	0815	JDM 3/28/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	N/A	~~JDM 3/28/06~~
Extracts filtered through baked, CH2Cl2-rinsed ~~powdered~~ granular Na2SO4	EM45118532	↓
Exchanged 2x with Acetonitrile	EM45216	↓
Concentrated: ☒ to volumes as noted above ☐ to clean-up volume	✓	↓
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Silica Gel	N/A	↓
Extracts filtered with 0.45 um PTFE syringe filter	Whatman L227	↓

[signature] 3/27/06
Extraction Chemist **Date**

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Continued on Page —

[signature] 3/28/06
Reviewed by **Date**

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8310 Water 3520C
As of 04/29/06

Analyte	Units	HPLC02 1	HPLC02 2	HPLC02 3	HPLC04 1	HPLC04 2	HPLC04 3
Naphthalene	ug/L	0.16		0.069	0.097		0.10
Acenaphthylene	ug/L	0.37	0.29		0.24	0.16	
2-Methylnaphthalene	ug/L				0.072		0.10
Acenaphthene	ug/L	0.36		0.098	0.33		0.085
Fluorene	ug/L	0.051		0.054	0.028		0.017
Phenanthrene	ug/L	0.030		0.0086	0.0082		0.0078
Anthracene	ug/L	0.021		0.0077	0.024		0.023
Fluoranthene	ug/L	0.13		0.011	0.042		0.013
Pyrene	ug/L	0.066		0.0048	0.036		0.010
Benzo(a)anthracene	ug/L	0.044		0.0046	0.022		0.013
Chrysene	ug/L	0.036		0.0059	0.021		0.0096
Benzo(b)fluoranthene	ug/L	0.032		0.0081	0.015		0.013
Benzo(k)fluoranthene	ug/L	0.037		0.0044	0.013		0.0080
Benzo(a)pyrene	ug/L	0.055		0.0045	0.017		0.025
Dibenz(a,h)anthracene	ug/L	0.12		0.026	0.037		0.025
Benzo(g,h,i)perylene	ug/L	0.066		0.014	0.047		0.017
Indeno(1,2,3-cd)pyrene	ug/L	0.065		0.011	0.013		0.0096
1-Methylnaphthalene (UV)	ug/L	1.2	1.9		9.0	9.1	
1-Methylnaphthalene (F)	ug/L			0.72			9.8

METALS

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	NKGW02	Batch#:	111849
Lab ID:	185679-001	Sampled:	03/20/06
Matrix:	Filtrate	Received:	03/21/06
Units:	ug/L	Prepared:	03/30/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/04/06	EPA 6010B
Antimony	ND	1.0	04/05/06	EPA 6020
Arsenic	ND	5.0	04/04/06	EPA 6010B
Barium	42	10	04/04/06	EPA 6010B
Beryllium	ND	2.0	04/04/06	EPA 6010B
Cadmium	ND	1.0	04/05/06	EPA 6020
Calcium	13,000	500	04/04/06	EPA 6010B
Chromium	ND	10	04/04/06	EPA 6010B
Cobalt	ND	10	04/04/06	EPA 6010B
Copper	ND	1.0	04/05/06	EPA 6020
Iron	ND	100	04/04/06	EPA 6010B
Lead	ND	3.0	04/04/06	EPA 6010B
Magnesium	23,000	500	04/04/06	EPA 6010B
Manganese	ND	10	04/04/06	EPA 6010B
Nickel	ND	20	04/04/06	EPA 6010B
Potassium	ND	500	04/04/06	EPA 6010B
Selenium	ND	5.0	04/04/06	EPA 6010B
Silver	ND	1.0	04/05/06	EPA 6020
Sodium	41,000	500	04/04/06	EPA 6010B
Thallium	ND	1.0	04/05/06	EPA 6020
Vanadium	ND	10	04/04/06	EPA 6010B
Zinc	ND	20	04/04/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	NKGW05	Batch#:	111849
Lab ID:	185679-002	Sampled:	03/20/06
Matrix:	Filtrate	Received:	03/21/06
Units:	ug/L	Prepared:	03/30/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/04/06	EPA 6010B
Antimony	ND	1.0	04/05/06	EPA 6020
Arsenic	ND	5.0	04/04/06	EPA 6010B
Barium	91	10	04/04/06	EPA 6010B
Beryllium	ND	2.0	04/04/06	EPA 6010B
Cadmium	1.6	1.0	04/05/06	EPA 6020
Calcium	27,000	500	04/04/06	EPA 6010B
Chromium	ND	10	04/04/06	EPA 6010B
Cobalt	ND	10	04/04/06	EPA 6010B
Copper	ND	1.0	04/05/06	EPA 6020
Iron	ND	100	04/04/06	EPA 6010B
Lead	ND	3.0	04/04/06	EPA 6010B
Magnesium	52,000	500	04/04/06	EPA 6010B
Manganese	140	10	04/04/06	EPA 6010B
Nickel	29	20	04/04/06	EPA 6010B
Potassium	1,800	500	04/04/06	EPA 6010B
Selenium	ND	5.0	04/04/06	EPA 6010B
Silver	ND	1.0	04/05/06	EPA 6020
Sodium	50,000	500	04/04/06	EPA 6010B
Thallium	ND	1.0	04/05/06	EPA 6020
Vanadium	ND	10	04/04/06	EPA 6010B
Zinc	ND	20	04/04/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	NKGW01	Batch#:	111849
Lab ID:	185679-003	Sampled:	03/20/06
Matrix:	Filtrate	Received:	03/21/06
Units:	ug/L	Prepared:	03/30/06
Dilu Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/04/06	EPA 6010B
Antimony	ND	1.0	04/05/06	EPA 6020
Arsenic	ND	5.0	04/04/06	EPA 6010B
Barium	120	10	04/04/06	EPA 6010B
Beryllium	ND	2.0	04/04/06	EPA 6010B
Cadmium	ND	1.0	04/05/06	EPA 6020
Calcium	31,000	500	04/04/06	EPA 6010B
Chromium	ND	10	04/04/06	EPA 6010B
Cobalt	ND	10	04/04/06	EPA 6010B
Copper	1.1	1.0	04/05/06	EPA 6020
Iron	ND	100	04/04/06	EPA 6010B
Lead	ND	3.0	04/04/06	EPA 6010B
Magnesium	68,000	500	04/04/06	EPA 6010B
Manganese	ND	10	04/04/06	EPA 6010B
Nickel	39	20	04/04/06	EPA 6010B
Potassium	800	500	04/04/06	EPA 6010B
Selenium	ND	5.0	04/04/06	EPA 6010B
Silver	ND	1.0	04/05/06	EPA 6020
Sodium	72,000	500	04/04/06	EPA 6010B
Thallium	ND	1.0	04/05/06	EPA 6020
Vanadium	ND	10	04/04/06	EPA 6010B
Zinc	ND	20	04/04/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	NKGW04	Batch#:	111849
Lab ID:	185679-004	Sampled:	03/20/06
Matrix:	Filtrate	Received:	03/21/06
Units:	ug/L	Prepared:	03/30/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/04/06	EPA 6010B
Antimony	ND	1.0	04/05/06	EPA 6020
Arsenic	ND	5.0	04/04/06	EPA 6010B
Barium	45	10	04/04/06	EPA 6010B
Beryllium	ND	2.0	04/04/06	EPA 6010B
Cadmium	18	1.0	04/05/06	EPA 6020
Calcium	31,000	500	04/04/06	EPA 6010B
Chromium	ND	10	04/04/06	EPA 6010B
Cobalt	ND	10	04/04/06	EPA 6010B
Copper	1.7	1.0	04/05/06	EPA 6020
Iron	ND	100	04/04/06	EPA 6010B
Lead	ND	3.0	04/04/06	EPA 6010B
Magnesium	22,000	500	04/04/06	EPA 6010B
Manganese	ND	10	04/04/06	EPA 6010B
Nickel	ND	20	04/04/06	EPA 6010B
Potassium	1,500	500	04/04/06	EPA 6010B
Selenium	ND	5.0	04/04/06	EPA 6010B
Silver	ND	1.0	04/05/06	EPA 6020
Sodium	23,000	500	04/04/06	EPA 6010B
Thallium	ND	1.0	04/05/06	EPA 6020
Vanadium	ND	10	04/04/06	EPA 6010B
Zinc	950	20	04/04/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	DUP0320061A	Batch#:	111849
Lab ID:	185679-005	Sampled:	03/20/06
Matrix:	Filtrate	Received:	03/21/06
Units:	ug/L	Prepared:	03/30/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/04/06	EPA 6010B
Antimony	ND	1.0	04/05/06	EPA 6020
Arsenic	ND	5.0	04/04/06	EPA 6010B
Barium	41	10	04/04/06	EPA 6010B
Beryllium	ND	2.0	04/04/06	EPA 6010B
Cadmium	16	1.0	04/05/06	EPA 6020
Calcium	29,000	500	04/04/06	EPA 6010B
Chromium	ND	10	04/04/06	EPA 6010B
Cobalt	ND	10	04/04/06	EPA 6010B
Copper	2.6	1.0	04/05/06	EPA 6020
Iron	ND	100	04/04/06	EPA 6010B
Lead	ND	3.0	04/04/06	EPA 6010B
Magnesium	21,000	500	04/04/06	EPA 6010B
Manganese	ND	10	04/04/06	EPA 6010B
Nickel	ND	20	04/04/06	EPA 6010B
Potassium	1,400	500	04/04/06	EPA 6010B
Selenium	ND	5.0	04/04/06	EPA 6010B
Silver	ND	1.0	04/05/06	EPA 6020
Sodium	23,000	500	04/04/06	EPA 6010B
Thallium	ND	1.0	04/05/06	EPA 6020
Vanadium	ND	10	04/04/06	EPA 6010B
Zinc	860	20	04/04/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF6GW105	Batch#:	111849
Lab ID:	185679-006	Sampled:	03/20/06
Matrix:	Filtrate	Received:	03/21/06
Units:	ug/L	Prepared:	03/30/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/04/06	EPA 6010B
Antimony	ND	1.0	04/05/06	EPA 6020
Arsenic	ND	5.0	04/04/06	EPA 6010B
Barium	51	10	04/04/06	EPA 6010B
Beryllium	ND	2.0	04/04/06	EPA 6010B
Cadmium	ND	1.0	04/05/06	EPA 6020
Calcium	45,000	500	04/04/06	EPA 6010B
Chromium	34	10	04/04/06	EPA 6010B
Cobalt	ND	10	04/04/06	EPA 6010B
Copper	ND	1.0	04/05/06	EPA 6020
Iron	ND	100	04/04/06	EPA 6010B
Lead	ND	3.0	04/04/06	EPA 6010B
Magnesium	67,000	500	04/04/06	EPA 6010B
Manganese	ND	10	04/04/06	EPA 6010B
Nickel	ND	20	04/04/06	EPA 6010B
Potassium	700	500	04/04/06	EPA 6010B
Selenium	ND	5.0	04/04/06	EPA 6010B
Silver	ND	1.0	04/05/06	EPA 6020
Sodium	85,000	500	04/04/06	EPA 6010B
Thallium	ND	1.0	04/05/06	EPA 6020
Vanadium	ND	10	04/04/06	EPA 6010B
Zinc	ND	20	04/04/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF6GW106	Batch#:	111849
Lab ID:	185679-007	Sampled:	03/20/06
Matrix:	Filtrate	Received:	03/21/06
Units:	ug/L	Prepared:	03/30/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/04/06	EPA 6010B
Antimony	ND	1.0	04/05/06	EPA 6020
Arsenic	ND	5.0	04/04/06	EPA 6010B
Barium	36	10	04/04/06	EPA 6010B
Beryllium	ND	2.0	04/04/06	EPA 6010B
Cadmium	ND	1.0	04/05/06	EPA 6020
Calcium	42,000	500	04/04/06	EPA 6010B
Chromium	23	10	04/04/06	EPA 6010B
Cobalt	ND	10	04/04/06	EPA 6010B
Copper	ND	1.0	04/05/06	EPA 6020
Iron	ND	100	04/04/06	EPA 6010B
Lead	ND	3.0	04/04/06	EPA 6010B
Magnesium	68,000	500	04/04/06	EPA 6010B
Manganese	ND	10	04/04/06	EPA 6010B
Nickel	ND	20	04/04/06	EPA 6010B
Potassium	710	500	04/04/06	EPA 6010B
Selenium	ND	5.0	04/04/06	EPA 6010B
Silver	ND	1.0	04/05/06	EPA 6020
Sodium	82,000	500	04/04/06	EPA 6010B
Thallium	ND	1.0	04/05/06	EPA 6020
Vanadium	ND	10	04/04/06	EPA 6010B
Zinc	ND	20	04/04/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	1349MW105	Batch#:	111849
Lab ID:	185679-008	Sampled:	03/20/06
Matrix:	Filtrate	Received:	03/21/06
Units:	ug/L	Prepared:	03/30/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	ND	100	1.000	04/04/06	EPA 6010B
Antimony	1.4	1.0	1.000	04/05/06	EPA 6020
Arsenic	10	5.0	1.000	04/04/06	EPA 6010B
Barium	47	10	1.000	04/04/06	EPA 6010B
Beryllium	ND	2.0	1.000	04/04/06	EPA 6010B
Cadmium	ND	1.0	1.000	04/05/06	EPA 6020
Calcium	56,000	500	1.000	04/04/06	EPA 6010B
Chromium	ND	10	1.000	04/04/06	EPA 6010B
Cobalt	ND	10	1.000	04/04/06	EPA 6010B
Copper	ND	1.0	1.000	04/05/06	EPA 6020
Iron	130	100	1.000	04/04/06	EPA 6010B
Lead	ND	3.0	1.000	04/04/06	EPA 6010B
Magnesium	140,000	1,000	2.000	04/04/06	EPA 6010B
Manganese	210	10	1.000	04/04/06	EPA 6010B
Nickel	ND	20	1.000	04/04/06	EPA 6010B
Potassium	9,100	500	1.000	04/04/06	EPA 6010B
Selenium	ND	5.0	1.000	04/04/06	EPA 6010B
Silver	ND	1.0	1.000	04/05/06	EPA 6020
Sodium	110,000	1,000	2.000	04/04/06	EPA 6010B
Thallium	ND	1.0	1.000	04/05/06	EPA 6020
Vanadium	ND	10	1.000	04/04/06	EPA 6010B
Zinc	ND	20	1.000	04/04/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	600GW107	Batch#:	111850
Lab ID:	185679-009	Sampled:	03/20/06
Matrix:	Filtrate	Received:	03/21/06
Units:	ug/L	Prepared:	03/30/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	ND	100	1.000	04/04/06	EPA 6010B
Arsenic	ND	5.0	1.000	04/04/06	EPA 6010B
Cadmium	ND	1.0	1.000	04/05/06	EPA 6020
Calcium	110,000	1,000	2.000	04/04/06	EPA 6010B
Chromium	ND	10	1.000	04/04/06	EPA 6010B
Copper	ND	1.0	1.000	04/05/06	EPA 6020
Iron	12,000	100	1.000	04/04/06	EPA 6010B
Lead	ND	3.0	1.000	04/04/06	EPA 6010B
Magnesium	53,000	500	1.000	04/04/06	EPA 6010B
Manganese	2,800	10	1.000	04/04/06	EPA 6010B
Nickel	ND	20	1.000	04/04/06	EPA 6010B
Potassium	5,900	500	1.000	04/04/06	EPA 6010B
Sodium	56,000	500	1.000	04/04/06	EPA 6010B
Zinc	ND	20	1.000	04/04/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF01GW06	Batch#:	111849
Lab ID:	185679-010	Sampled:	03/20/06
Matrix:	Filtrate	Received:	03/21/06
Units:	ug/L	Prepared:	03/30/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/04/06	EPA 6010B
Antimony	ND	1.0	04/05/06	EPA 6020
Arsenic	ND	5.0	04/04/06	EPA 6010B
Barium	22	10	04/04/06	EPA 6010B
Beryllium	ND	2.0	04/04/06	EPA 6010B
Cadmium	3.3	1.0	04/05/06	EPA 6020
Calcium	19,000	500	04/04/06	EPA 6010B
Chromium	ND	10	04/04/06	EPA 6010B
Cobalt	ND	10	04/04/06	EPA 6010B
Copper	4.2	1.0	04/05/06	EPA 6020
Iron	ND	100	04/04/06	EPA 6010B
Lead	ND	3.0	04/04/06	EPA 6010B
Magnesium	3,100	500	04/04/06	EPA 6010B
Manganese	ND	10	04/04/06	EPA 6010B
Nickel	ND	20	04/04/06	EPA 6010B
Potassium	3,400	500	04/04/06	EPA 6010B
Selenium	ND	5.0	04/04/06	EPA 6010B
Silver	ND	1.0	04/05/06	EPA 6020
Sodium	6,200	500	04/04/06	EPA 6010B
Thallium	ND	1.0	04/05/06	EPA 6020
Vanadium	ND	10	04/04/06	EPA 6010B
Zinc	460	20	04/04/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF02GW04	Batch#:	111849
Lab ID:	185679-011	Sampled:	03/20/06
Matrix:	Filtrate	Received:	03/21/06
Units:	ug/L	Prepared:	03/30/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	190	100	04/04/06	EPA 6010B
Antimony	ND	1.0	04/06/06	EPA 6020
Arsenic	ND	5.0	04/04/06	EPA 6010B
Barium	76	10	04/04/06	EPA 6010B
Beryllium	ND	2.0	04/04/06	EPA 6010B
Cadmium	ND	1.0	04/06/06	EPA 6020
Calcium	48,000	500	04/04/06	EPA 6010B
Chromium	ND	10	04/04/06	EPA 6010B
Cobalt	ND	10	04/04/06	EPA 6010B
Copper	6.2	1.0	04/06/06	EPA 6020
Iron	300	100	04/04/06	EPA 6010B
Lead	ND	3.0	04/04/06	EPA 6010B
Magnesium	14,000	500	04/04/06	EPA 6010B
Manganese	24	10	04/04/06	EPA 6010B
Nickel	68	20	04/04/06	EPA 6010B
Potassium	9,000	500	04/04/06	EPA 6010B
Selenium	ND	5.0	04/04/06	EPA 6010B
Silver	ND	1.0	04/06/06	EPA 6020
Sodium	30,000	500	04/04/06	EPA 6010B
Thallium	ND	1.0	04/06/06	EPA 6020
Vanadium	ND	10	04/04/06	EPA 6010B
Zinc	ND	20	04/04/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF01GW07	Batch#:	111849
Lab ID:	185679-012	Sampled:	03/20/06
Matrix:	Filtrate	Received:	03/21/06
Units:	ug/L	Prepared:	03/30/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/04/06	EPA 6010B
Antimony	ND	1.0	04/05/06	EPA 6020
Arsenic	ND	5.0	04/04/06	EPA 6010B
Barium	39	10	04/04/06	EPA 6010B
Beryllium	ND	2.0	04/04/06	EPA 6010B
Cadmium	ND	1.0	04/05/06	EPA 6020
Calcium	32,000	500	04/04/06	EPA 6010B
Chromium	23	10	04/04/06	EPA 6010B
Cobalt	ND	10	04/04/06	EPA 6010B
Copper	ND	1.0	04/05/06	EPA 6020
Iron	ND	100	04/04/06	EPA 6010B
Lead	ND	3.0	04/04/06	EPA 6010B
Magnesium	49,000	500	04/04/06	EPA 6010B
Manganese	ND	10	04/04/06	EPA 6010B
Nickel	ND	20	04/04/06	EPA 6010B
Potassium	640	500	04/04/06	EPA 6010B
Selenium	ND	5.0	04/04/06	EPA 6010B
Silver	ND	1.0	04/05/06	EPA 6020
Sodium	37,000	500	04/04/06	EPA 6010B
Thallium	ND	1.0	04/05/06	EPA 6020
Vanadium	ND	10	04/04/06	EPA 6010B
Zinc	ND	20	04/04/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF01GW04	Batch#:	111849
Lab ID:	185679-013	Sampled:	03/20/06
Matrix:	Filtrate	Received:	03/21/06
Units:	ug/L	Prepared:	03/30/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/04/06	EPA 6010B
Antimony	ND	1.0	04/05/06	EPA 6020
Arsenic	ND	5.0	04/04/06	EPA 6010B
Barium	42	10	04/04/06	EPA 6010B
Beryllium	ND	2.0	04/04/06	EPA 6010B
Cadmium	ND	1.0	04/05/06	EPA 6020
Calcium	33,000	500	04/04/06	EPA 6010B
Chromium	15	10	04/04/06	EPA 6010B
Cobalt	ND	10	04/04/06	EPA 6010B
Copper	ND	1.0	04/05/06	EPA 6020
Iron	ND	100	04/04/06	EPA 6010B
Lead	ND	3.0	04/04/06	EPA 6010B
Magnesium	38,000	500	04/04/06	EPA 6010B
Manganese	ND	10	04/04/06	EPA 6010B
Nickel	ND	20	04/04/06	EPA 6010B
Potassium	1,600	500	04/04/06	EPA 6010B
Selenium	ND	5.0	04/04/06	EPA 6010B
Silver	ND	1.0	04/05/06	EPA 6020
Sodium	46,000	500	04/04/06	EPA 6010B
Thallium	ND	1.0	04/05/06	EPA 6020
Vanadium	ND	10	04/04/06	EPA 6010B
Zinc	ND	20	04/04/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF01GW03	Batch#:	111849
Lab ID:	185679-014	Sampled:	03/20/06
Matrix:	Filtrate	Received:	03/21/06
Units:	ug/L	Prepared:	03/30/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/04/06	EPA 6010B
Antimony	ND	1.0	04/05/06	EPA 6020
Arsenic	ND	5.0	04/04/06	EPA 6010B
Barium	130	10	04/04/06	EPA 6010B
Beryllium	ND	2.0	04/04/06	EPA 6010B
Cadmium	ND	1.0	04/05/06	EPA 6020
Calcium	20,000	500	04/04/06	EPA 6010B
Chromium	43	10	04/04/06	EPA 6010B
Cobalt	ND	10	04/04/06	EPA 6010B
Copper	ND	1.0	04/05/06	EPA 6020
Iron	ND	100	04/04/06	EPA 6010B
Lead	ND	3.0	04/04/06	EPA 6010B
Magnesium	84,000	500	04/04/06	EPA 6010B
Manganese	ND	10	04/04/06	EPA 6010B
Nickel	ND	20	04/04/06	EPA 6010B
Potassium	2,200	500	04/04/06	EPA 6010B
Selenium	ND	5.0	04/04/06	EPA 6010B
Silver	ND	1.0	04/05/06	EPA 6020
Sodium	58,000	500	04/04/06	EPA 6010B
Thallium	ND	1.0	04/05/06	EPA 6020
Vanadium	ND	10	04/04/06	EPA 6010B
Zinc	ND	20	04/04/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF01GW05	Batch#:	111849
Lab ID:	185679-015	Sampled:	03/20/06
Matrix:	Filtrate	Received:	03/21/06
Units:	ug/L	Prepared:	03/30/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/04/06	EPA 6010B
Antimony	ND	1.0	04/05/06	EPA 6020
Arsenic	ND	5.0	04/04/06	EPA 6010B
Barium	78	10	04/04/06	EPA 6010B
Beryllium	ND	2.0	04/04/06	EPA 6010B
Cadmium	ND	1.0	04/05/06	EPA 6020
Calcium	32,000	500	04/04/06	EPA 6010B
Chromium	ND	10	04/04/06	EPA 6010B
Cobalt	ND	10	04/04/06	EPA 6010B
Copper	ND	1.0	04/05/06	EPA 6020
Iron	ND	100	04/04/06	EPA 6010B
Lead	ND	3.0	04/04/06	EPA 6010B
Magnesium	51,000	500	04/04/06	EPA 6010B
Manganese	ND	10	04/04/06	EPA 6010B
Nickel	ND	20	04/04/06	EPA 6010B
Potassium	ND	500	04/04/06	EPA 6010B
Selenium	ND	5.0	04/04/06	EPA 6010B
Silver	ND	1.0	04/05/06	EPA 6020
Sodium	37,000	500	04/04/06	EPA 6010B
Thallium	ND	1.0	04/05/06	EPA 6020
Vanadium	ND	10	04/04/06	EPA 6010B
Zinc	ND	20	04/04/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF02GW02	Batch#:	111849
Lab ID:	185679-016	Sampled:	03/20/06
Matrix:	Filtrate	Received:	03/21/06
Units:	ug/L	Prepared:	03/30/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	ND	100	1.000	04/04/06	EPA 6010B
Antimony	ND	1.0	1.000	04/05/06	EPA 6020
Arsenic	ND	5.0	1.000	04/04/06	EPA 6010B
Barium	220	10	1.000	04/04/06	EPA 6010B
Beryllium	ND	2.0	1.000	04/04/06	EPA 6010B
Cadmium	ND	1.0	1.000	04/05/06	EPA 6020
Calcium	34,000	500	1.000	04/04/06	EPA 6010B
Chromium	ND	10	1.000	04/04/06	EPA 6010B
Cobalt	ND	10	1.000	04/04/06	EPA 6010B
Copper	ND	1.0	1.000	04/05/06	EPA 6020
Iron	ND	100	1.000	04/04/06	EPA 6010B
Lead	ND	3.0	1.000	04/04/06	EPA 6010B
Magnesium	130,000	1,000	2.000	04/04/06	EPA 6010B
Manganese	12	10	1.000	04/04/06	EPA 6010B
Nickel	ND	20	1.000	04/04/06	EPA 6010B
Potassium	670	500	1.000	04/04/06	EPA 6010B
Selenium	ND	5.0	1.000	04/04/06	EPA 6010B
Silver	ND	1.0	1.000	04/05/06	EPA 6020
Sodium	62,000	500	1.000	04/04/06	EPA 6010B
Thallium	ND	1.0	1.000	04/05/06	EPA 6020
Vanadium	ND	10	1.000	04/04/06	EPA 6010B
Zinc	ND	20	1.000	04/04/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF10GW01	Batch#:	111849
Lab ID:	185679-017	Sampled:	03/20/06
Matrix:	Filtrate	Received:	03/21/06
Units:	ug/L	Prepared:	03/30/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/04/06	EPA 6010B
Antimony	ND	1.0	04/05/06	EPA 6020
Arsenic	ND	5.0	04/04/06	EPA 6010B
Barium	56	10	04/04/06	EPA 6010B
Beryllium	ND	2.0	04/04/06	EPA 6010B
Cadmium	ND	1.0	04/05/06	EPA 6020
Calcium	13,000	500	04/04/06	EPA 6010B
Chromium	79	10	04/04/06	EPA 6010B
Cobalt	ND	10	04/04/06	EPA 6010B
Copper	ND	1.0	04/05/06	EPA 6020
Iron	ND	100	04/04/06	EPA 6010B
Lead	ND	3.0	04/04/06	EPA 6010B
Magnesium	57,000	500	04/04/06	EPA 6010B
Manganese	ND	10	04/04/06	EPA 6010B
Nickel	ND	20	04/04/06	EPA 6010B
Potassium	ND	500	04/04/06	EPA 6010B
Selenium	ND	5.0	04/04/06	EPA 6010B
Silver	ND	1.0	04/05/06	EPA 6020
Sodium	38,000	500	04/04/06	EPA 6010B
Thallium	ND	1.0	04/05/06	EPA 6020
Vanadium	ND	10	04/04/06	EPA 6010B
Zinc	ND	20	04/04/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF5SP100	Batch#:	111850
Lab ID:	185679-019	Sampled:	03/21/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Prepared:	03/30/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	5,200	100	04/04/06	EPA 6010B
Antimony	ND	1.0	04/05/06	EPA 6020
Arsenic	ND	5.0	04/04/06	EPA 6010B
Barium	440	10	04/04/06	EPA 6010B
Beryllium	ND	2.0	04/04/06	EPA 6010B
Cadmium	ND	1.0	04/05/06	EPA 6020
Calcium	33,000	500	04/04/06	EPA 6010B
Chromium	10	10	04/04/06	EPA 6010B
Cobalt	26	10	04/04/06	EPA 6010B
Copper	ND	1.0	04/05/06	EPA 6020
Iron	3,400	100	04/04/06	EPA 6010B
Lead	180	3.0	04/04/06	EPA 6010B
Magnesium	32,000	500	04/04/06	EPA 6010B
Manganese	1,100	10	04/04/06	EPA 6010B
Nickel	110	20	04/04/06	EPA 6010B
Potassium	3,900	500	04/04/06	EPA 6010B
Selenium	ND	5.0	04/04/06	EPA 6010B
Silver	ND	1.0	04/05/06	EPA 6020
Sodium	43,000	500	04/04/06	EPA 6010B
Thallium	1.3	1.0	04/05/06	EPA 6020
Vanadium	38	10	04/04/06	EPA 6010B
Zinc	420	20	04/04/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF5SP100	Batch#:	111849
Lab ID:	185679-019	Sampled:	03/21/06
Matrix:	Filtrate	Received:	03/21/06
Units:	ug/L	Prepared:	03/30/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/04/06	EPA 6010B
Antimony	ND	1.0	04/05/06	EPA 6020
Arsenic	ND	5.0	04/04/06	EPA 6010B
Barium	42	10	04/04/06	EPA 6010B
Beryllium	ND	2.0	04/04/06	EPA 6010B
Cadmium	ND	1.0	04/05/06	EPA 6020
Calcium	13,000	500	04/04/06	EPA 6010B
Chromium	ND	10	04/04/06	EPA 6010B
Cobalt	ND	10	04/04/06	EPA 6010B
Copper	3.5	1.0	04/05/06	EPA 6020
Iron	220	100	04/04/06	EPA 6010B
Lead	ND	3.0	04/04/06	EPA 6010B
Magnesium	20,000	500	04/04/06	EPA 6010B
Manganese	ND	10	04/04/06	EPA 6010B
Nickel	ND	20	04/04/06	EPA 6010B
Potassium	3,000	500	04/04/06	EPA 6010B
Selenium	ND	5.0	04/04/06	EPA 6010B
Silver	ND	1.0	04/05/06	EPA 6020
Sodium	43,000	500	04/04/06	EPA 6010B
Thallium	ND	1.0	04/05/06	EPA 6020
Vanadium	ND	10	04/04/06	EPA 6010B
Zinc	ND	20	04/04/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	610SP01	Batch#:	111850
Lab ID:	185679-020	Sampled:	03/21/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Prepared:	03/30/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	170	100	1.000	04/06/06	EPA 6010B
Arsenic	ND	5.0	1.000	04/04/06	EPA 6010B
Cadmium	ND	1.0	1.000	04/05/06	EPA 6020
Calcium	52,000	500	1.000	04/04/06	EPA 6010B
Chromium	ND	10	1.000	04/04/06	EPA 6010B
Copper	ND	1.0	1.000	04/05/06	EPA 6020
Iron	1,800	100	1.000	04/04/06	EPA 6010B
Lead	ND	3.0	1.000	04/04/06	EPA 6010B
Magnesium	40,000	500	1.000	04/04/06	EPA 6010B
Manganese	1,600	10	1.000	04/04/06	EPA 6010B
Nickel	ND	20	1.000	04/04/06	EPA 6010B
Potassium	11,000	500	1.000	04/04/06	EPA 6010B
Sodium	140,000	1,000	2.000	04/04/06	EPA 6010B
Zinc	ND	20	1.000	04/04/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	610SP01	Batch#:	111850
Lab ID:	185679-020	Sampled:	03/21/06
Matrix:	Filtrate	Received:	03/21/06
Units:	ug/L	Prepared:	03/30/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	ND	100	1.000	04/04/06	EPA 6010B
Arsenic	ND	5.0	1.000	04/04/06	EPA 6010B
Cadmium	ND	1.0	1.000	04/05/06	EPA 6020
Calcium	52,000	500	1.000	04/04/06	EPA 6010B
Chromium	ND	10	1.000	04/04/06	EPA 6010B
Copper	ND	1.0	1.000	04/05/06	EPA 6020
Iron	780	100	1.000	04/04/06	EPA 6010B
Lead	ND	3.0	1.000	04/04/06	EPA 6010B
Magnesium	40,000	500	1.000	04/04/06	EPA 6010B
Manganese	1,600	10	1.000	04/04/06	EPA 6010B
Nickel	ND	20	1.000	04/04/06	EPA 6010B
Potassium	11,000	500	1.000	04/04/06	EPA 6010B
Sodium	140,000	1,000	2.000	04/04/06	EPA 6010B
Zinc	ND	20	1.000	04/04/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	610SP02	Batch#:	111850
Lab ID:	185679-021	Sampled:	03/21/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Prepared:	03/30/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	1,900	100	1.000	04/06/06	EPA 6010B
Arsenic	ND	5.0	1.000	04/04/06	EPA 6010B
Cadmium	ND	1.0	1.000	04/05/06	EPA 6020
Calcium	72,000	500	1.000	04/04/06	EPA 6010B
Chromium	ND	10	1.000	04/04/06	EPA 6010B
Copper	22	1.0	1.000	04/05/06	EPA 6020
Iron	6,700	100	1.000	04/04/06	EPA 6010B
Lead	ND	3.0	1.000	04/06/06	EPA 6010B
Magnesium	49,000	500	1.000	04/04/06	EPA 6010B
Manganese	1,000	10	1.000	04/04/06	EPA 6010B
Nickel	ND	20	1.000	04/04/06	EPA 6010B
Potassium	10,000	500	1.000	04/04/06	EPA 6010B
Sodium	140,000	1,000	2.000	04/04/06	EPA 6010B
Zinc	26	20	1.000	04/04/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	610SP02	Batch#:	111850
Lab ID:	185679-021	Sampled:	03/21/06
Matrix:	Filtrate	Received:	03/21/06
Units:	ug/L	Prepared:	03/30/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	ND	100	1.000	04/04/06	EPA 6010B
Arsenic	ND	5.0	1.000	04/04/06	EPA 6010B
Cadmium	ND	1.0	1.000	04/05/06	EPA 6020
Calcium	67,000	500	1.000	04/04/06	EPA 6010B
Chromium	ND	10	1.000	04/04/06	EPA 6010B
Copper	1.4	1.0	1.000	04/05/06	EPA 6020
Iron	370	100	1.000	04/04/06	EPA 6010B
Lead	ND	3.0	1.000	04/04/06	EPA 6010B
Magnesium	47,000	500	1.000	04/04/06	EPA 6010B
Manganese	860	10	1.000	04/04/06	EPA 6010B
Nickel	ND	20	1.000	04/04/06	EPA 6010B
Potassium	9,400	500	1.000	04/04/06	EPA 6010B
Sodium	140,000	1,000	2.000	04/04/06	EPA 6010B
Zinc	ND	20	1.000	04/04/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC333690	Batch#:	111849
Matrix:	Filtrate	Prepared:	03/30/06
Units:	ug/L		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/04/06	EPA 6010B
Antimony	ND	1.0	04/06/06	EPA 6020
Arsenic	ND	5.0	04/04/06	EPA 6010B
Barium	ND	10	04/04/06	EPA 6010B
Beryllium	ND	2.0	04/04/06	EPA 6010B
Cadmium	ND	1.0	04/06/06	EPA 6020
Calcium	ND	500	04/04/06	EPA 6010B
Chromium	ND	10	04/04/06	EPA 6010B
Cobalt	ND	10	04/04/06	EPA 6010B
Copper	ND	1.0	04/06/06	EPA 6020
Iron	ND	100	04/04/06	EPA 6010B
Lead	ND	3.0	04/04/06	EPA 6010B
Magnesium	ND	500	04/04/06	EPA 6010B
Manganese	ND	10	04/04/06	EPA 6010B
Nickel	ND	20	04/04/06	EPA 6010B
Potassium	ND	500	04/04/06	EPA 6010B
Selenium	ND	5.0	04/04/06	EPA 6010B
Silver	ND	1.0	04/06/06	EPA 6020
Sodium	ND	500	04/04/06	EPA 6010B
Thallium	ND	1.0	04/06/06	EPA 6020
Vanadium	ND	10	04/04/06	EPA 6010B
Zinc	ND	20	04/04/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC333697	Batch#:	111850
Matrix:	Filtrate	Prepared:	03/30/06
Units:	ug/L		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	04/04/06	EPA 6010B
Antimony	ND	1.0	04/05/06	EPA 6020
Arsenic	ND	5.0	04/04/06	EPA 6010B
Barium	ND	10	04/04/06	EPA 6010B
Beryllium	ND	2.0	04/04/06	EPA 6010B
Cadmium	ND	1.0	04/05/06	EPA 6020
Calcium	ND	500	04/04/06	EPA 6010B
Chromium	ND	10	04/04/06	EPA 6010B
Cobalt	ND	10	04/04/06	EPA 6010B
Copper	ND	1.0	04/05/06	EPA 6020
Iron	ND	100	04/04/06	EPA 6010B
Lead	ND	3.0	04/04/06	EPA 6010B
Magnesium	ND	500	04/04/06	EPA 6010B
Manganese	ND	10	04/04/06	EPA 6010B
Nickel	ND	20	04/04/06	EPA 6010B
Potassium	ND	500	04/04/06	EPA 6010B
Selenium	ND	5.0	04/04/06	EPA 6010B
Silver	ND	1.0	04/05/06	EPA 6020
Sodium	ND	500	04/04/06	EPA 6010B
Thallium	ND	1.0	04/05/06	EPA 6020
Vanadium	ND	10	04/04/06	EPA 6010B
Zinc	ND	20	04/04/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Mercury by Cold Vapor AA

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	111549
Field ID:	LF5SP100	Sampled:	03/21/06
Matrix:	Water	Received:	03/21/06
Units:	ug/L	Prepared:	03/22/06
Diln Fac:	1.000	Analyzed:	03/22/06

Type	Lab ID	Result	RL
SAMPLE	185679-019	0.25	0.20
BLANK	QC332499	ND	0.20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Mercury by Cold Vapor AA

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Received:	03/21/06
Units:	ug/L	Prepared:	03/22/06
Diln Fac:	1.000	Analyzed:	03/22/06
Batch#:	111549		

Field ID	Type	Lab ID	Matrix	Result	RL	Sampled
NKGW02	SAMPLE	185679-001	Filtrate	ND	0.20	03/20/06
NKGW05	SAMPLE	185679-002	Filtrate	ND	0.20	03/20/06
NKGW01	SAMPLE	185679-003	Filtrate	ND	0.20	03/20/06
NKGW04	SAMPLE	185679-004	Filtrate	ND	0.20	03/20/06
DUP0320061A	SAMPLE	185679-005	Filtrate	ND	0.20	03/20/06
LF6GW105	SAMPLE	185679-006	Filtrate	ND	0.20	03/20/06
LF6GW106	SAMPLE	185679-007	Filtrate	ND	0.20	03/20/06
1349MW105	SAMPLE	185679-008	Filtrate	ND	0.20	03/20/06
LF10GW01	SAMPLE	185679-017	Filtrate	ND	0.20	03/20/06
LF5SP100	SAMPLE	185679-019	Filtrate	ND	0.20	03/21/06
	BLANK	QC332499	Water	ND	0.20	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Matrix:	Filtrate	Batch#:	111849
Units:	ug/L	Prepared:	03/30/06
Diln Fac:	1.000		

Type: BS Lab ID: QC333691

Analyte	Spiked	Result	%REC	Limits	Analyzed	Analysis
Aluminum	100.0	88.26	88	80-120	04/04/06	EPA 6010B
Antimony	100.0	105.6	106	80-120	04/06/06	EPA 6020
Arsenic	100.0	104.7	105	80-120	04/04/06	EPA 6010B
Barium	100.0	103.2	103	80-120	04/04/06	EPA 6010B
Beryllium	100.0	106.6	107	80-120	04/04/06	EPA 6010B
Cadmium	100.0	97.58	98	80-120	04/06/06	EPA 6020
Calcium	10,000	9,885	99	80-120	04/04/06	EPA 6010B
Chromium	100.0	104.8	105	80-120	04/04/06	EPA 6010B
Cobalt	100.0	102.4	102	80-120	04/04/06	EPA 6010B
Copper	100.0	108.1	108	80-120	04/06/06	EPA 6020
Iron	10,000	10,100	101	80-120	04/04/06	EPA 6010B
Lead	100.0	101.6	102	80-120	04/04/06	EPA 6010B
Magnesium	10,000	9,934	99	80-120	04/04/06	EPA 6010B
Manganese	100.0	104.7	105	80-120	04/04/06	EPA 6010B
Nickel	100.0	103.6	104	80-120	04/04/06	EPA 6010B
Potassium	10,000	9,897	99	80-120	04/04/06	EPA 6010B
Selenium	100.0	105.7	106	80-120	04/04/06	EPA 6010B
Silver	100.0	103.7	104	80-120	04/06/06	EPA 6020
Sodium	10,000	9,935	99	80-120	04/04/06	EPA 6010B
Thallium	100.0	100.2	100	80-120	04/06/06	EPA 6020
Vanadium	100.0	105.0	105	80-120	04/04/06	EPA 6010B
Zinc	100.0	107.4	107	80-120	04/04/06	EPA 6010B

Type: BSD Lab ID: QC333692

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed	Analysis
Aluminum	100.0	96.70	97	80-120	9	20	04/04/06	EPA 6010B
Antimony	100.0	104.9	105	80-120	1	20	04/06/06	EPA 6020
Arsenic	100.0	105.2	105	80-120	0	20	04/04/06	EPA 6010B
Barium	100.0	103.2	103	80-120	0	20	04/04/06	EPA 6010B
Beryllium	100.0	105.5	106	80-120	1	20	04/04/06	EPA 6010B
Cadmium	100.0	98.19	98	80-120	1	20	04/06/06	EPA 6020
Calcium	10,000	9,858	99	80-120	0	20	04/04/06	EPA 6010B
Chromium	100.0	105.3	105	80-120	0	20	04/04/06	EPA 6010B
Cobalt	100.0	102.8	103	80-120	0	20	04/04/06	EPA 6010B
Copper	100.0	109.3	109	80-120	1	20	04/06/06	EPA 6020
Iron	10,000	11,160	112	80-120	10	20	04/04/06	EPA 6010B
Lead	100.0	102.7	103	80-120	1	20	04/04/06	EPA 6010B
Magnesium	10,000	10,120	101	80-120	2	20	04/04/06	EPA 6010B
Manganese	100.0	108.6	109	80-120	4	20	04/04/06	EPA 6010B
Nickel	100.0	104.2	104	80-120	1	20	04/04/06	EPA 6010B
Potassium	10,000	9,857	99	80-120	0	20	04/04/06	EPA 6010B
Selenium	100.0	105.4	105	80-120	0	20	04/04/06	EPA 6010B
Silver	100.0	103.0	103	80-120	1	20	04/06/06	EPA 6020
Sodium	10,000	9,891	99	80-120	0	20	04/04/06	EPA 6010B
Thallium	100.0	102.0	102	80-120	2	20	04/06/06	EPA 6020
Vanadium	100.0	105.8	106	80-120	1	20	04/04/06	EPA 6010B
Zinc	100.0	111.2	111	80-120	3	20	04/04/06	EPA 6010B

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Matrix:	Filtrate	Batch#:	111850
Units:	ug/L	Prepared:	03/30/06
Diln Fac:	1.000		

Type: BS Lab ID: QC333698

Analyte	Spiked	Result	%REC	Limits	Analyzed	Analysis
Aluminum	100.0	98.87	99	80-120	04/04/06	EPA 6010B
Antimony	100.0	94.96	95	80-120	04/05/06	EPA 6020
Arsenic	100.0	105.4	105	80-120	04/04/06	EPA 6010B
Barium	100.0	104.3	104	80-120	04/04/06	EPA 6010B
Beryllium	100.0	106.8	107	80-120	04/04/06	EPA 6010B
Cadmium	100.0	94.16	94	80-120	04/05/06	EPA 6020
Calcium	10,000	10,270	103	80-120	04/04/06	EPA 6010B
Chromium	100.0	105.4	105	80-120	04/04/06	EPA 6010B
Cobalt	100.0	103.4	103	80-120	04/04/06	EPA 6010B
Copper	100.0	96.13	96	80-120	04/05/06	EPA 6020
Iron	10,000	10,530	105	80-120	04/04/06	EPA 6010B
Lead	100.0	102.7	103	80-120	04/04/06	EPA 6010B
Magnesium	10,000	10,270	103	80-120	04/04/06	EPA 6010B
Manganese	100.0	105.4	105	80-120	04/04/06	EPA 6010B
Nickel	100.0	104.2	104	80-120	04/04/06	EPA 6010B
Potassium	10,000	10,050	100	80-120	04/04/06	EPA 6010B
Selenium	100.0	106.8	107	80-120	04/04/06	EPA 6010B
Silver	100.0	97.85	98	80-120	04/05/06	EPA 6020
Sodium	10,000	10,190	102	80-120	04/04/06	EPA 6010B
Thallium	100.0	84.54	85	80-120	04/05/06	EPA 6020
Vanadium	100.0	105.9	106	80-120	04/04/06	EPA 6010B
Zinc	100.0	104.6	105	80-120	04/04/06	EPA 6010B

Type: BSD Lab ID: QC333699

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed	Analysis
Aluminum	100.0	93.37	93	80-120	6	20	04/04/06	EPA 6010B
Antimony	100.0	93.19	93	80-120	2	20	04/05/06	EPA 6020
Arsenic	100.0	102.5	103	80-120	3	20	04/04/06	EPA 6010B
Barium	100.0	102.8	103	80-120	1	20	04/04/06	EPA 6010B
Beryllium	100.0	105.0	105	80-120	2	20	04/04/06	EPA 6010B
Cadmium	100.0	93.23	93	80-120	1	20	04/05/06	EPA 6020
Calcium	10,000	9,728	97	80-120	5	20	04/04/06	EPA 6010B
Chromium	100.0	103.7	104	80-120	2	20	04/04/06	EPA 6010B
Cobalt	100.0	101.7	102	80-120	2	20	04/04/06	EPA 6010B
Copper	100.0	94.50	95	80-120	2	20	04/05/06	EPA 6020
Iron	10,000	9,920	99	80-120	6	20	04/04/06	EPA 6010B
Lead	100.0	100.8	101	80-120	2	20	04/04/06	EPA 6010B
Magnesium	10,000	9,972	100	80-120	3	20	04/04/06	EPA 6010B
Manganese	100.0	103.8	104	80-120	2	20	04/04/06	EPA 6010B
Nickel	100.0	102.7	103	80-120	1	20	04/04/06	EPA 6010B
Potassium	10,000	9,751	98	80-120	3	20	04/04/06	EPA 6010B
Selenium	100.0	105.1	105	80-120	2	20	04/04/06	EPA 6010B
Silver	100.0	97.53	98	80-120	0	20	04/05/06	EPA 6020
Sodium	10,000	9,705	97	80-120	5	20	04/04/06	EPA 6010B
Thallium	100.0	86.60	87	80-120	2	20	04/05/06	EPA 6020
Vanadium	100.0	104.3	104	80-120	2	20	04/04/06	EPA 6010B
Zinc	100.0	103.6	104	80-120	1	20	04/04/06	EPA 6010B

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Mercury by Cold Vapor AA

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	111549
Field ID:	ZZZZZZZZZZ	Sampled:	03/16/06
MSS Lab ID:	185681-005	Received:	03/21/06
Matrix:	Water	Prepared:	03/22/06
Units:	ug/L	Analyzed:	03/22/06
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC332500		5.000	4.990	100	80-120		
BSD	QC332501		5.000	5.160	103	80-120	3	20
MS	QC332502	0.1440	5.000	5.530	108	75-125		
MSD	QC332503		5.000	5.500	107	75-125	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF02GW04	Batch#:	111849
MSS Lab ID:	185679-011	Sampled:	03/20/06
Matrix:	Filtrate	Received:	03/21/06
Units:	ug/L	Prepared:	03/30/06
Diln Fac:	1.000		

Type: MS Lab ID: QC333693

Analyte	MSS Result	Spiked	Result	%REC	Limits	Analyzed	Analysis
Aluminum	187.0	100.0	277.1	90	75-125	04/04/06	EPA 6010B
Antimony	0.6602	100.0	104.3	104	75-125	04/06/06	EPA 6020
Arsenic	<1.047	100.0	105.5	105	75-125	04/04/06	EPA 6010B
Barium	76.12	100.0	175.7	100	75-125	04/04/06	EPA 6010B
Beryllium	<0.2089	100.0	106.3	106	75-125	04/04/06	EPA 6010B
Cadmium	<0.1409	100.0	91.04	91	75-125	04/06/06	EPA 6020
Calcium	48,390	10,000	55,780	74 NM	75-125	04/04/06	EPA 6010B
Chromium	6.606	100.0	108.7	102	75-125	04/04/06	EPA 6010B
Cobalt	0.8379	100.0	102.0	101	75-125	04/04/06	EPA 6010B
Copper	6.168	100.0	109.8	104	75-125	04/06/06	EPA 6020
Iron	299.9	10,000	10,060	98	75-125	04/04/06	EPA 6010B
Lead	<0.5698	100.0	94.95	95	75-125	04/04/06	EPA 6010B
Magnesium	13,940	10,000	23,540	96	75-125	04/04/06	EPA 6010B
Manganese	23.74	100.0	126.7	103	75-125	04/04/06	EPA 6010B
Nickel	68.33	100.0	167.7	99	75-125	04/04/06	EPA 6010B
Potassium	9,019	10,000	18,340	93	75-125	04/04/06	EPA 6010B
Selenium	1.705	100.0	105.7	104	75-125	04/04/06	EPA 6010B
Silver	<0.04084	100.0	96.04	96	75-125	04/06/06	EPA 6020
Sodium	30,240	10,000	38,560	83	75-125	04/04/06	EPA 6010B
Thallium	0.2832	100.0	101.9	102	75-125	04/06/06	EPA 6020
Vanadium	4.132	100.0	108.3	104	75-125	04/04/06	EPA 6010B
Zinc	<1.533	100.0	102.8	103	75-125	04/04/06	EPA 6010B

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF02GW04	Batch#:	111849
MSS Lab ID:	185679-011	Sampled:	03/20/06
Matrix:	Filtrate	Received:	03/21/06
Units:	ug/L	Prepared:	03/30/06
Diln Fac:	1.000		

Type: MSD Lab ID: QC333694

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed	Analysis
Aluminum	100.0	272.5	85	75-125	2	20	04/04/06	EPA 6010B
Antimony	100.0	102.9	102	75-125	1	20	04/06/06	EPA 6020
Arsenic	100.0	101.7	102	75-125	4	20	04/04/06	EPA 6010B
Barium	100.0	173.8	98	75-125	1	20	04/04/06	EPA 6010B
Beryllium	100.0	103.3	103	75-125	3	20	04/04/06	EPA 6010B
Cadmium	100.0	91.98	92	75-125	1	20	04/06/06	EPA 6020
Calcium	10,000	56,520	81 NM	75-125	1	20	04/04/06	EPA 6010B
Chromium	100.0	105.9	99	75-125	3	20	04/04/06	EPA 6010B
Cobalt	100.0	99.38	99	75-125	3	20	04/04/06	EPA 6010B
Copper	100.0	109.6	103	75-125	0	20	04/06/06	EPA 6020
Iron	10,000	10,020	97	75-125	0	20	04/04/06	EPA 6010B
Lead	100.0	92.26	92	75-125	3	20	04/04/06	EPA 6010B
Magnesium	10,000	23,540	96	75-125	0	20	04/04/06	EPA 6010B
Manganese	100.0	125.0	101	75-125	1	20	04/04/06	EPA 6010B
Nickel	100.0	164.8	97	75-125	2	20	04/04/06	EPA 6010B
Potassium	10,000	18,440	94	75-125	1	20	04/04/06	EPA 6010B
Selenium	100.0	104.6	103	75-125	1	20	04/04/06	EPA 6010B
Silver	100.0	96.01	96	75-125	0	20	04/06/06	EPA 6020
Sodium	10,000	39,040	88	75-125	1	20	04/04/06	EPA 6010B
Thallium	100.0	103.0	103	75-125	1	20	04/06/06	EPA 6020
Vanadium	100.0	105.8	102	75-125	2	20	04/04/06	EPA 6010B
Zinc	100.0	99.97	100	75-125	3	20	04/04/06	EPA 6010B

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	600GW107	Batch#:	111850
MSS Lab ID:	185679-009	Sampled:	03/20/06
Matrix:	Filtrate	Received:	03/21/06
Units:	ug/L	Prepared:	03/30/06
Diln Fac:	1.000		

Type: MS Lab ID: QC333700

Analyte	MSS Result	Spiked	Result	%REC	Limits	Analyzed	Analysis
Aluminum	<42.49	100.0	108.6	109	75-125	04/04/06	EPA 6010B
Antimony	0.1697	100.0	99.76	100	75-125	04/05/06	EPA 6020
Arsenic	4.691	100.0	111.4	107	75-125	04/04/06	EPA 6010B
Barium	52.86	100.0	153.4	101	75-125	04/04/06	EPA 6010B
Beryllium	<0.2089	100.0	107.5	108	75-125	04/04/06	EPA 6010B
Cadmium	<0.1409	100.0	91.16	91	75-125	04/05/06	EPA 6020
Calcium	106,300	10,000	112,800 >LR	65 NM	75-125	04/04/06	EPA 6010B
Chromium	1.159	100.0	104.5	103	75-125	04/04/06	EPA 6010B
Cobalt	0.6840	100.0	97.50	97	75-125	04/04/06	EPA 6010B
Copper	<0.3124	100.0	94.81	95	75-125	04/05/06	EPA 6020
Iron	12,220	10,000	21,350	91	75-125	04/04/06	EPA 6010B
Lead	<0.5698	100.0	92.48	92	75-125	04/04/06	EPA 6010B
Magnesium	52,690	10,000	59,700	70 NM	75-125	04/04/06	EPA 6010B
Manganese	2,762	100.0	2,791	29 NM	75-125	04/04/06	EPA 6010B
Nickel	<0.9182	100.0	98.32	98	75-125	04/04/06	EPA 6010B
Potassium	5,926	10,000	15,510	96	75-125	04/04/06	EPA 6010B
Selenium	<1.575	100.0	109.0	109	75-125	04/04/06	EPA 6010B
Silver	<0.04084	100.0	94.32	94	75-125	04/05/06	EPA 6020
Sodium	55,570	10,000	61,980	64 NM	75-125	04/04/06	EPA 6010B
Thallium	1.153	100.0	88.73	88	75-125	04/05/06	EPA 6020
Vanadium	0.9736	100.0	107.3	106	75-125	04/04/06	EPA 6010B
Zinc	<1.533	100.0	99.78	100	75-125	04/04/06	EPA 6010B

*= Value outside of QC limits; see narrative
NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	600GW107	Batch#:	111850
MSS Lab ID:	185679-009	Sampled:	03/20/06
Matrix:	Filtrate	Received:	03/21/06
Units:	ug/L	Prepared:	03/30/06
Diln Fac:	1.000		

Type: MSD Lab ID: QC333701

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed	Analysis
Aluminum	100.0	87.97	88	75-125	21 *	20	04/04/06	EPA 6010B
Antimony	100.0	99.80	100	75-125	0	20	04/05/06	EPA 6020
Arsenic	100.0	114.6	110	75-125	3	20	04/04/06	EPA 6010B
Barium	100.0	154.6	102	75-125	1	20	04/04/06	EPA 6010B
Beryllium	100.0	107.9	108	75-125	0	20	04/04/06	EPA 6010B
Cadmium	100.0	89.73	90	75-125	2	20	04/05/06	EPA 6020
Calcium	10,000	117,500 >LR	112 NM	75-125	NC	20	04/04/06	EPA 6010B
Chromium	100.0	103.3	102	75-125	1	20	04/04/06	EPA 6010B
Cobalt	100.0	97.58	97	75-125	0	20	04/04/06	EPA 6010B
Copper	100.0	94.05	94	75-125	1	20	04/05/06	EPA 6020
Iron	10,000	22,010	98	75-125	3	20	04/04/06	EPA 6010B
Lead	100.0	93.05	93	75-125	1	20	04/04/06	EPA 6010B
Magnesium	10,000	61,690	90 NM	75-125	3	20	04/04/06	EPA 6010B
Manganese	100.0	2,833	71 NM	75-125	2	20	04/04/06	EPA 6010B
Nickel	100.0	97.89	98	75-125	0	20	04/04/06	EPA 6010B
Potassium	10,000	15,800	99	75-125	2	20	04/04/06	EPA 6010B
Selenium	100.0	108.9	109	75-125	0	20	04/04/06	EPA 6010B
Silver	100.0	92.82	93	75-125	2	20	04/05/06	EPA 6020
Sodium	10,000	64,450	89 NM	75-125	4	20	04/04/06	EPA 6010B
Thallium	100.0	89.61	88	75-125	1	20	04/05/06	EPA 6020
Vanadium	100.0	107.1	106	75-125	0	20	04/04/06	EPA 6010B
Zinc	100.0	100.2	100	75-125	0	20	04/04/06	EPA 6010B

*= Value outside of QC limits; see narrative
NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF02GW04	Units:	ug/L
Type:	Serial Dilution	Diln Fac:	5.000
MSS Lab ID:	185679-011	Batch#:	111849
Lab ID:	QC333695	Sampled:	03/20/06
Matrix:	Filtrate	Received:	03/21/06

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Analyzed	Analysis
Aluminum	187.0	100.0	269.4 J	500.0		10	04/04/06	EPA 6010B
Antimony	ND	1.000	0.7742 J	5.000		10	04/06/06	EPA 6020
Arsenic	ND	5.000	ND	25.00		10	04/04/06	EPA 6010B
Barium	76.12	10.00	75.79	50.00	0	10	04/04/06	EPA 6010B
Beryllium	ND	2.000	ND	10.00		10	04/04/06	EPA 6010B
Cadmium	ND	1.000	ND	5.000		10	04/06/06	EPA 6020
Calcium	48,390	500.0	51,030	2,500	5	10	04/04/06	EPA 6010B
Chromium	ND	10.00	6.649 J	50.00		10	04/04/06	EPA 6010B
Cobalt	ND	10.00	ND	50.00		10	04/04/06	EPA 6010B
Copper	6.168	1.000	5.885	5.000		10	04/06/06	EPA 6020
Iron	299.9	100.0	306.0 J	500.0		10	04/04/06	EPA 6010B
Lead	ND	3.000	ND	15.00		10	04/04/06	EPA 6010B
Magnesium	13,940	500.0	14,750	2,500	6	10	04/04/06	EPA 6010B
Manganese	23.74	10.00	23.27 J	50.00		10	04/04/06	EPA 6010B
Nickel	68.33	20.00	66.68 J	100.0	2	10	04/04/06	EPA 6010B
Potassium	9,019	500.0	9,354	2,500	4	10	04/04/06	EPA 6010B
Selenium	ND	5.000	ND	25.00		10	04/04/06	EPA 6010B
Silver	ND	1.000	ND	5.000		10	04/06/06	EPA 6020
Sodium	30,240	500.0	31,650	2,500	5	10	04/04/06	EPA 6010B
Thallium	ND	1.000	0.6882 J	5.000		10	04/06/06	EPA 6020
Vanadium	ND	10.00	4.041 J	50.00		10	04/04/06	EPA 6010B
Zinc	ND	20.00	10.69 J	100.0		10	04/04/06	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	600GW107	Units:	ug/L
Type:	Serial Dilution	Batch#:	111850
MSS Lab ID:	185679-009	Sampled:	03/20/06
Lab ID:	QC333702	Received:	03/21/06
Matrix:	Filtrate		

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Diln Fac	Analyzed	Analysis
Aluminum	ND	100.0	ND	500.0		10	5.000	04/04/06	EPA 6010B
Antimony	ND	1.000	ND	5.000		10	5.000	04/05/06	EPA 6020
Arsenic	ND	5.000	ND	25.00		10	5.000	04/04/06	EPA 6010B
Barium	52.86	10.00	56.59	50.00	7	10	5.000	04/04/06	EPA 6010B
Beryllium	ND	2.000	ND	10.00		10	5.000	04/04/06	EPA 6010B
Cadmium	ND	1.000	ND	5.000		10	5.000	04/05/06	EPA 6020
Calcium	106,300	1,000	113,200	5,000	7	10	10.00	04/04/06	EPA 6010B
Chromium	ND	10.00	ND	50.00		10	5.000	04/04/06	EPA 6010B
Cobalt	ND	10.00	ND	50.00		10	5.000	04/04/06	EPA 6010B
Copper	ND	1.000	2.527 J	5.000		10	5.000	04/05/06	EPA 6020
Iron	12,220	100.0	12,950	500.0	6	10	5.000	04/04/06	EPA 6010B
Lead	ND	3.000	ND	15.00		10	5.000	04/04/06	EPA 6010B
Magnesium	52,690	500.0	56,070	2,500	6	10	5.000	04/04/06	EPA 6010B
Manganese	2,762	10.00	2,943	50.00	7	10	5.000	04/04/06	EPA 6010B
Nickel	ND	20.00	ND	100.0		10	5.000	04/04/06	EPA 6010B
Potassium	5,926	500.0	5,902	2,500		10	5.000	04/04/06	EPA 6010B
Selenium	ND	5.000	ND	25.00		10	5.000	04/04/06	EPA 6010B
Silver	ND	1.000	ND	5.000		10	5.000	04/05/06	EPA 6020
Sodium	55,570	500.0	56,900	2,500	2	10	5.000	04/04/06	EPA 6010B
Thallium	1.153	1.000	1.492 J	5.000		10	5.000	04/05/06	EPA 6020
Vanadium	ND	10.00	ND	50.00		10	5.000	04/04/06	EPA 6010B
Zinc	ND	20.00	ND	100.0		10	5.000	04/04/06	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Mercury by Cold Vapor AA

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Units:	ug/L
Field ID:	ZZZZZZZZZZ	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	111549
MSS Lab ID:	185681-005	Sampled:	03/16/06
Lab ID:	QC332504	Received:	03/21/06
Matrix:	Water	Analyzed:	03/22/06

MSS Result	MSS RL	Result	RL	% Diff Lim
ND	0.2000	ND	1.000	10

ND= Not Detected
RL= Reporting Limit

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : MSS
Inst : MET08
Seqnum: 86136397018
File : 040406ar.txt
IDF : 1.0
Lab ID: 185679-011
Matrix: Filtrate
Batch : 111849
Time : 04-APR-2006 18:46
Cal : 86136397001
Units : ug/L

Type : PDS
Inst : MET08
Seqnum: 86136397027
File : 040406ar.txt
IDF : 1.0
Lab ID: QC333696
Matrix: Filtrate
Batch : 111849
Time : 04-APR-2006 19:18
Cal : 86136397001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (100X)

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Aluminum	187.0	R	100.0	288.6	R	102	75-125	
Antimony	ND	A	100.0	106.3	A	106	75-125	
Arsenic	ND	A	100.0	104.8	A	105	75-125	
Barium	76.12	A	100.0	177.5	A	101	75-125	
Beryllium	ND	A	100.0	107.4	A	107	75-125	
Cadmium	ND	A	100.0	105.0	A	105	75-125	
Calcium	48390	R	10000	57510	R	91	75-125	:
Chromium	6.606	A	100.0	109.2	A	103	75-125	
Cobalt	0.8379	A	100.0	102.3	A	101	75-125	
Copper	6.275	A	100.0	109.9	A	104	75-125	
Iron	299.9	R	10000	10300	R	100	75-125	
Lead	ND	A	100.0	95.34	A	95	75-125	
Magnesium	13940	R	10000	23700	R	98	75-125	
Manganese	23.74	A	100.0	127.5	A	104	75-125	
Molybdenum	0.8966	A	100.0	105.9	A	105	75-125	
Nickel	68.33	A	100.0	168.9	A	101	75-125	
Potassium	9019	R	10000	18700	R	97	75-125	
Selenium	1.705	A	100.0	106.3	A	105	75-125	
Silver	ND	A	100.0	100.8	A	101	75-125	
Sodium	30240	R	10000	39640	R	94	75-125	
Thallium	2.777	A	100.0	102.1	A	99	75-125	
Vanadium	4.132	A	100.0	108.7	A	105	75-125	
Zinc	ND	A	100.0	103.1	A	103	75-125	
Boron	118.6	A	1000	1205	A	109	75-125	
Tin	5.201	A	1000	1061	A	106	75-125	
Titanium	2.859	A	1000	1060	A	106	75-125	

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	2321860	2268790	-2.29

:=recovery not meaningful

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : MSS
Inst : MET08
Seqnum: 86136397065
File : 040406ar.txt
IDF : 1.0
Lab ID: 185679-009
Matrix: Filtrate
Batch : 111850
Time : 04-APR-2006 21:39
Cal : 86136397001
Units : ug/L

Type : PDS
Inst : MET08
Seqnum: 86136397077
File : 040406ar.txt
IDF : 1.0
Lab ID: QC333703
Matrix: Filtrate
Batch : 111850
Time : 04-APR-2006 22:17
Cal : 86136397001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (100X)

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Aluminum	ND	R	100.0	113.4	R	113	75-125	
Antimony	ND	A	100.0	108.2	A	108	75-125	
Arsenic	4.691	A	100.0	114.5	A	110	75-125	
Barium	52.86	A	100.0	153.4	A	101	75-125	
Beryllium	ND	A	100.0	107.0	A	107	75-125	
Cadmium	ND	A	100.0	101.0	A	101	75-125	
Chromium	1.159	A	100.0	102.6	A	101	75-125	
Cobalt	0.6840	A	100.0	95.26	A	95	75-125	
Copper	ND	A	100.0	98.12	A	98	75-125	
Iron	12220	R	10000	21820	R	96	75-125	
Lead	ND	A	100.0	89.77	A	90	75-125	
Magnesium	52690	R	10000	60780	R	81	75-125	:
Manganese	2762	A	100.0	2783	A	22	75-125	:
Molybdenum	1.275	A	100.0	103.3	A	102	75-125	
Nickel	ND	A	100.0	96.97	A	97	75-125	
Potassium	5926	R	10000	15640	R	97	75-125	
Selenium	ND	A	100.0	110.8	A	111	75-125	
Silver	ND	A	100.0	99.84	A	100	75-125	
Sodium	55570	R	10000	63320	R	78	75-125	:
Thallium	ND	A	100.0	88.00	A	88	75-125	
Vanadium	0.9736	A	100.0	106.0	A	105	75-125	
Zinc	ND	A	100.0	98.40	A	98	75-125	
Boron	258.0	A	1000	1337	A	108	75-125	
Tin	8.734	A	1000	1041	A	103	75-125	
Titanium	ND	A	1000	1060	A	106	75-125	

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	2321860	2239646	-3.54

:=recovery not meaningful

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET05
Seqnum: 56137652036
File : d0514036
IDF : 1.0
Lab ID: 185679-011
Matrix: Filtrate
Batch : 111849
Time : 05-APR-2006 17:27
Cal : 56137652001
Units : ug/L

Type : PDS
Inst : MET05
Seqnum: 56137652044
File : d0514044
IDF : 1.0
Lab ID: QC333696
Matrix: Filtrate
Batch : 111849
Time : 05-APR-2006 18:12
Cal : 56137652001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (100X)

Analyte	MSS	Spiked	PDS	%Rec	Limits	Flags
Antimony	0.6501	100.0	95.58	95	75-125	
Arsenic	1.087	100.0	92.30	91	75-125	
Barium	69.44	100.0	168.4	99	75-125	
Beryllium	0.06881	100.0	99.25	99	75-125	
Cadmium	ND	100.0	90.62	91	75-125	
Chromium	6.507	100.0	104.5	98	75-125	
Cobalt	0.8813	100.0	96.75	96	75-125	
Copper	5.510	100.0	101.8	96	75-125	
Iron	373.9	10000	10130	98	75-125	
Lead	ND	100.0	101.3	101	75-125	
Magnesium	13340	10000	22650 >LR	93	75-125	>LR **b***
Manganese	22.06	100.0	115.3	93	75-125	
Molybdenum	0.5384	100.0	97.67	97	75-125	
Nickel	67.87	100.0	162.4	95	75-125	
Potassium	8670	10000	18180	95	75-125	
Selenium	ND	100.0	84.83	85	75-125	
Silver	0.04351	100.0	94.00	94	75-125	
Vanadium	4.140	100.0	101.0	97	75-125	
Zinc	2.899	100.0	88.70	86	75-125	

ISTD (ICALBLK d0514003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	338234	327722	-3.11
Scandium	114358	115301	0.82
Germanium	25988	23691	-8.84
Indium	210721	176229	-16.37
Bismuth	348119	279423	-19.73

MISSING READINGS: **AL CA NA TL**

>LR=overrange b=noncompliant

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET05
Seqnum: 56137652075
File : d0514075
IDF : 1.0
Lab ID: 185679-009
Matrix: Filtrate
Batch : 111850
Time : 05-APR-2006 21:05
Cal : 56137652001
Units : ug/L

Type : PDS
Inst : MET05
Seqnum: 56137652079
File : d0514079
IDF : 1.0
Lab ID: QC333703
Matrix: Filtrate
Batch : 111850
Time : 05-APR-2006 21:28
Cal : 56137652001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (100X)

Analyte	MSS	Spiked	PDS	%Rec	Limits	Flags
Antimony	0.1697	100.0	101.3	101	75-125	
Arsenic	7.157	100.0	102.2	95	75-125	
Barium	51.44	100.0	155.5	104	75-125	
Beryllium	ND	100.0	103.0	103	75-125	
Cadmium	ND	100.0	95.89	96	75-125	
Chromium	0.7386	100.0	99.58	99	75-125	
Cobalt	0.8012	100.0	95.50	95	75-125	
Copper	ND	100.0	92.93	93	75-125	
Iron	12290	10000	22050 >LR	98	75-125	>LR **b***
Lead	ND	100.0	107.4	107	75-125	
Molybdenum	1.044	100.0	99.58	99	75-125	
Nickel	2.227	100.0	97.67	95	75-125	
Potassium	5949	10000	15420	95	75-125	
Selenium	ND	100.0	90.93	91	75-125	
Silver	ND	100.0	96.15	96	75-125	
Thallium	1.153	100.0	88.60	87	75-125	
Vanadium	0.6475	100.0	100.1	99	75-125	
Zinc	1.799	100.0	90.55	89	75-125	

ISTD (ICALBLK d0514003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	338234	272803	-19.34
Scandium	114358	91464	-20.02
Germanium	25988	18799	-27.66
Indium	210721	141775	-32.72
Bismuth	348119	234110	-32.75

MISSING READINGS: **AL CA MG MN NA**

>LR=overrange b=noncompliant

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 05-APR-2006
Sequence: 56137652 (d0514)
Instrument ID: MET05

ICALBLK Filename: d0514003
Date Analyzed: 05-APR-2006
Time Analyzed: 14:23

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD	338234	114358	25988	210721	348119	404861
LOWER LIMIT	101470	34307	7796	63216	104436	121458
UPPER LIMIT	405880	137229	31185	252866	417743	485833

TYPE	SAMPLE	#						
ICB		012	369238	120542	27145	212957	350660	402864
ICSA		013	319771	127206	29841	211200	300249	399607
BLANK	QC334392	017	357171	122140	27621	218824	359427	414084
BS	QC334393	018	349012	122078	28023	208982	345923	416778
BSD	QC334394	019	356828	125820	28375	211378	355488	420083
MSS	185980-001	020	313190	119078	25352	194533	273833	384007
SER	QC334397	021	345731	129409	28747	221222	341556	430830
MS	QC334395	022	291082	118769	25245	196421	279484	389914
MSD	QC334396	023	324937	129240	27075	210171	296748	419083
CCV		025	375382	141370*	31753*	243080	370548	458556
CCB		027	364717	128019	29030	229622	370460	429438
PDS	QC334398	028	319009	128166	26809	210414	300148	416330
ICSA		029	281942	103700	24287	178879	260711	345689
BLANK	QC333690	033	341040	115650	25260	205456	341449	389596
BS	QC333691	034	320611	109066	23511	179111	294488	359791
BSD	QC333692	035	343398	110714	24323	184617	315533	370823
MSS	185679-011	036	341052	116487	23359	184548	295780	357703
SER	QC333695	037	348853	117913	25778	206594	339942	393460
MS	QC333693	038	341192	121939	25298	185110	298626	374571
MSD	QC333694	039	329496	117981	23904	178576	285421	359552
CCV		041	359106	121726	26505	205689	335908	399522
CCB		043	352784	122738	27200	217586	357607	410774
PDS	QC333696	044	327722	115301	23691	176229	279423	351023
SAMPLE	185679-001	045	331079	112521	23702	184303	294324	360456
SAMPLE	185679-002	046	344328	110110	23035	179600	287489	359344
SAMPLE	185679-003	047	305546	111392	23116	179457	288060	361653

300

* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 05-APR-2006
Sequence: 56137652 (d0514)
Instrument ID: MET05

ICALBLK Filename: d0514003
Date Analyzed: 05-APR-2006
Time Analyzed: 14:23

TYPE	SAMPLE	#						
SAMPLE	185679-004	048	307229	104531	22379	180923	295170	363454
SAMPLE	185679-005	049	306096	104632	22345	179556	298312	356944
SAMPLE	185679-006	050	275023	99663	20464	167658	272202	344866
SAMPLE	185679-007	051	275833	96087	19863	165113	265247	340336
SAMPLE	185679-008	052	287676	96192	20023	161989	253178	336011
SAMPLE	185679-010	053	339421	127034	27906	215879	321442	393814
CCV		055	333430	119316	25717	195206	316653	376963
CCB		057	337238	110154	24161	195590	328719	374213
SAMPLE	185679-012	058	295169	101847	21108	164866	269341	331062
SAMPLE	185679-013	059	276557	93744	19577	157370	259734	319877
SAMPLE	185679-014	060	251918	89058	18379	154730	255213	321350
SAMPLE	185679-015	061	280011	99771	21071	175984	287591	364890
SAMPLE	185679-016	062	276827	96836	19662	162762	263031	337959
SAMPLE	185679-017	063	262887	95412	19391	170001	283501	348064
SAMPLE	185679-019	064	270131	92002	19076	167491	284159	344734
ICSA		065	244861	85809	19407	150161	218157	295587
BLANK	QC333697	068	306461	101559	21494	177933	304860	342759
CCV		070	305579	99851	21174	169395	284391	332159
CCB		072	320685	102778	21937	176793	309448	342087
BS	QC333698	073	305066	99409	20942	160049	272279	324722
BSD	QC333699	074	293942	95181	20192	155987	261416	313112
MSS	185679-009	075	290654	96468	19900	152825	247953	312053
SER	QC333702	076	320673	101048	21747	169490	285158	328457
MS	QC333700	077	295171	96299	19981	145711	231699	298069
MSD	QC333701	078	289293	96230	19989	145728	232443	299158
PDS	QC333703	079	272803	91464	18799	141775	234110	294928
SAMPLE	185679-019	080	289146	94841	19318	147469	224678	291861
SAMPLE	185679-020	081	275430	91141	18316	144912	219167	292090
SAMPLE	185679-021	082	325966	109539	21946	170542	274931	338626
CCV		084	345831	112036	23830	181654	295228	350409
CCB		086	359005	114356	24206	189790	324656	359186
SAMPLE	185679-020	087	291313	96357	19441	151388	241471	300990

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* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 05-APR-2006
Sequence: 56137652 (d0514)
Instrument ID: MET05

ICALBLK Filename: d0514003
Date Analyzed: 05-APR-2006
Time Analyzed: 14:23

TYPE	SAMPLE	#						
SAMPLE	185679-021	088	259597	84616	16815	135179	214069	276040
CCV		090	341753	109006	23794	177617	296452	341762
CCB		092	338365	104033	22670	173353	299404	327694
ICSA		093	259350	94532	22299	161542	231186	302097
CCV		097	316789	105770	22540	168340	276518	323416
CCB		099	317532	104518	22693	174491	295444	330187

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* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 06-APR-2006
Sequence: 56138973 (d0612)
Instrument ID: MET05

ICALBLK Filename: d0612003
Date Analyzed: 06-APR-2006
Time Analyzed: 12:25

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD	546793	293386	56751	371565	234039	415394
LOWER LIMIT	164038	88016	17025	111469	70212	124618
UPPER LIMIT	656152	352063	68101	445878	280847	498473

TYPE	SAMPLE	#						
ICB		012	586040	285046	57356	350753	232666	400109
ICSA		013	466509	259170	51333	305523	170140	356653
BLANK	QC333690	016	586374	275551	52718	335718	211957	377214
BS	QC333691	017	549170	253213	50838	288172	181240	341687
BSD	QC333692	018	579109	259544	50989	288444	179244	342043
MSS	185679-011	020	557272	261609	48601	281286	171098	324950
SER	QC333695	021	598450	272023	53176	314549	197301	361489
MS	QC333693	022	570807	266214	49794	273411	166719	330196
MSD	QC333694	023	573847	271626	50436	279769	167033	333817
BLANK	QC334590	025	619999	275372	55461	329413	211799	369713
CCV		026	593147	259146	53845	300625	185661	348208
CCB		028	597056	268009	54729	317084	203164	357542
ICSA		029	443326	224407	45220	254486	141738	294310

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CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET08
Calnum : 86136397001
Units : ug/L

Date : 04-APR-2006 17:17
X Axis : R

Reviewer: ---
Inj Vol : 5000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	040406ar.txt	86136397002	CRIM08	04-APR-2006 17:21	S2544
L2	040406ar.txt	86136397003	CS100	04-APR-2006 17:24	S2568
L3	040406ar.txt	86136397004	CS1K	04-APR-2006 17:28	S2567
L4	040406ar.txt	86136397005	CS10K	04-APR-2006 17:30	S2569
L5	040406ar.txt	86136397006	CS100K	04-APR-2006 17:33	S2556

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	37.914	42.153	42.544	42.082		LOR0	0.00000	0.02376		41.173	1.000	0.995	
Arsenic	A	23.709	22.151	22.199	22.046		LOR0	0.00000	0.04536		22.526	1.000	0.995	
Barium	A	442.91	436.17	430.15	421.43		LOR0	0.00000	0.00237		432.67	1.000	0.995	
Beryllium	A	3889.6	3897.5	3825.4			LOR0	0.00000	2.61E-4		3870.8	1.000	0.995	
Boron	A	161.41		162.12	166.91		LOR0	0.00000	0.00599		163.48	1.000	0.995	
Cadmium	A	376.70	386.75	381.84	369.68		LOR0	0.00000	0.00270		378.75	1.000	0.995	
Chromium	A	130.78	108.76	107.70	105.98		LOR0	0.00000	0.00943		113.31	1.000	0.995	
Cobalt	A	119.77	120.46	123.96	121.11		LOR0	0.00000	0.00826		121.32	1.000	0.995	
Copper	A	758.86	733.63	745.76	745.69		LOR0	0.00000	0.00134		745.98	1.000	0.995	304
Lead	A	59.072	59.915	60.178	58.248		LOR0	0.00000	0.01716		59.353	1.000	0.995	
Manganese	A	1041.6	1027.8	1014.1	970.75		LOR0	0.00000	0.00103		1013.6	1.000	0.995	
Molybdenum	A	49.134	49.693	49.700	48.886		LOR0	0.00000	0.02045		49.353	1.000	0.995	
Nickel	A	62.337	66.569	68.234	66.168		LOR0	0.00000	0.01511		65.827	1.000	0.995	
Selenium	A	23.141	21.612	21.619	21.607		LOR0	0.00000	0.04628		21.995	1.000	0.995	
Silver	A	449.42	487.09	481.61	481.84		LOR0	0.00000	0.00208		474.99	1.000	0.995	
Thallium	A	23.028	24.029	24.620	24.080		LOR0	0.00000	0.04152		23.939	1.000	0.995	
Tin	A	23.205	23.710	24.094	23.804		LOR0	0.00000	0.04200		23.704	1.000	0.995	
Titanium	A	1124.3	1148.6	1119.7	1098.3		LOR0	0.00000	9.10E-4		1122.7	1.000	0.995	
Vanadium	A	145.01	142.23	142.53	144.28		LOR0	0.00000	0.00693		143.51	1.000	0.995	
Zinc	A	134.38	128.22	129.06	129.23		LOR0	0.00000	0.00774		130.22	1.000	0.995	
Aluminum	R	1.4568		1.6407	1.7362	1.7965	LOR0	0.00000	0.55683		1.6576	1.000	0.995	
Calcium	R	12.247		12.001	12.480	12.583	LOR0	0.00000	0.07948		12.328	1.000	0.995	
Iron	R	12.721		12.139	12.231	12.216	LOR0	0.00000	0.08186		12.327	1.000	0.995	
Magnesium	R	2.0748		2.1420	2.1437	2.1262	LOR0	0.00000	0.47029		2.1217	1.000	0.995	
Potassium	R	5.0882		4.9980	5.2211	5.2561	LOR0	0.00000	0.19027		5.1409	1.000	0.995	
Sodium	R	11.551		11.131	11.289	11.244	LOR0	0.00000	0.08894		11.304	1.000	0.995	

LOR0=Linear regression forced thru origin, including 0,0 point

Instrument amount = a0 + response * a1 + response^2 * a2

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 4/4/2006 5:17:18 PM
Data Type: Reprocessed on 4/4/2006 6:09:03 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	-2216.3	221.82	10.01%	[0.00]	ug/L
Al 308.215 R	157.3	3.58	2.28%	[0.00]	ug/L
As 188.979	-229.4	7.16	3.12%	[0.00]	ug/L
B 249.677	4.0	8.05	201.02%	[0.00]	ug/L
Ba 233.527	-282.8	9.23	3.27%	[0.00]	ug/L
Be 313.107	-779.2	114.32	14.67%	[0.00]	ug/L
Ca 315.887 R	718.4	8.65	1.20%	[0.00]	ug/L
Cd 214.440	-7.5	5.05	67.14%	[0.00]	ug/L
Co 228.616	-198.6	4.30	2.16%	[0.00]	ug/L
Cr 267.716	68.3	19.05	27.89%	[0.00]	ug/L
Cu 324.752	-337.0	54.74	16.24%	[0.00]	ug/L
Fe 238.204 R	131.8	3.35	2.55%	[0.00]	ug/L
K 766.490 R	-4357.2	166.76	3.83%	[0.00]	ug/L
Mg 279.077 R	-159.9	6.52	4.08%	[0.00]	ug/L
Mn 257.610	323.1	3.31	1.03%	[0.00]	ug/L
Mo 202.031	-13.5	7.74	57.43%	[0.00]	ug/L
Na 589.592 R	4618.1	83.22	1.80%	[0.00]	ug/L
Ni 231.604	333.4	14.87	4.46%	[0.00]	ug/L
Pb 220.353	108.1	33.04	30.55%	[0.00]	ug/L
Sb 206.836	757.2	14.11	1.86%	[0.00]	ug/L
Se 196.026	-138.0	5.57	4.03%	[0.00]	ug/L
Ti 334.940 R	398.4	60.51	15.19%	[0.00]	ug/L
Tl 190.801	205.0	2.30	1.12%	[0.00]	ug/L
V 292.402	-1127.4	13.07	1.16%	[0.00]	ug/L
Zn 206.200	-551.2	4.10	0.74%	[0.00]	ug/L
Sn 189.927	5.6	9.04	160.25%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 4/4/2006 5:21:47 PM
Data Type: Reprocessed on 4/4/2006 6:09:04 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2321860.1	27784.77	1.20%	100.0	%
Y	319959.2	3682.53	1.15%	100.0	%
Ag 328.068†	2247.1	105.17	4.68%	[5.0]	ug/L
Al 308.215 R†	145.7	60.33	41.41%	[100]	ug/L
As 188.979†	118.5	1.83	1.55%	[5.0]	ug/L
B 249.677†	16140.5	316.89	1.96%	[100]	ug/L
Ba 233.527†	2214.6	35.81	1.62%	[5.0]	ug/L
Be 313.107†	7779.3	179.41	2.31%	[2.0]	ug/L
Ca 315.887 R†	2449.5	76.35	3.12%	[200]	ug/L
Cd 214.440†	1883.5	27.42	1.46%	[5.0]	ug/L
Co 228.616†	598.8	9.58	1.60%	[5.0]	ug/L
Cr 267.716†	653.9	16.86	2.58%	[5.0]	ug/L
Cu 324.752†	3794.3	136.68	3.60%	[5.0]	ug/L
Fe 238.204 R†	1272.1	32.15	2.53%	[100]	ug/L
K 766.490 R†	2544.1	64.86	2.55%	[500]	ug/L
Mg 279.077 R†	415.0	34.39	8.29%	[200]	ug/L
Mn 257.610†	5208.1	70.09	1.35%	[5.0]	ug/L
Mo 202.031†	245.7	4.18	1.70%	[5.0]	ug/L
Na 589.592 R†	5775.5	157.36	2.72%	[500]	ug/L
Ni 231.604†	311.7	21.69	6.96%	[5.0]	ug/L
Pb 220.353†	177.2	9.39	5.30%	[3.0]	ug/L
Sb 206.836†	189.6	41.74	22.02%	[5.0]	ug/L
Se 196.026†	115.7	25.46	22.01%	[5.0]	ug/L
Ti 334.940 R†	11242.6	293.29	2.61%	[10]	ug/L
Tl 190.801†	115.1	10.39	9.02%	[5.0]	ug/L
V 292.402†	725.1	3.25	0.45%	[5.0]	ug/L
Zn 206.200†	2687.5	29.03	1.08%	[20]	ug/L
Sn 189.927†	928.2	9.93	1.07%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 4/4/2006 5:24:57 PM
Data Type: Reprocessed on 4/4/2006 6:09:05 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2344942.0	15277.31	0.65%	101.0	%
Y	327004.0	4704.04	1.44%	102.2	%
Ag 328.068†	48709.5	236.62	0.49%	[100]	ug/L
As 188.979†	2215.1	21.23	0.96%	[100]	ug/L
Ba 233.527†	43616.7	312.09	0.72%	[100]	ug/L
Be 313.107†	389745.9	2114.47	0.54%	[100]	ug/L
Cd 214.440†	38675.4	331.22	0.86%	[100]	ug/L
Co 228.616†	12045.9	73.79	0.61%	[100]	ug/L
Cr 267.716†	10876.3	55.64	0.51%	[100]	ug/L
Cu 324.752†	73362.8	829.13	1.13%	[100]	ug/L
Mn 257.610†	102782.9	704.94	0.69%	[100]	ug/L
Mo 202.031†	4969.3	30.35	0.61%	[100]	ug/L
Ni 231.604†	6656.9	39.38	0.59%	[100]	ug/L
Pb 220.353†	5991.5	59.66	1.00%	[100]	ug/L
Sb 206.836†	4215.3	27.55	0.65%	[100]	ug/L
Se 196.026†	2161.2	41.34	1.91%	[100]	ug/L
Ti 334.940 R†	114857.7	942.30	0.82%	[100]	ug/L
Tl 190.801†	2402.9	24.20	1.01%	[100]	ug/L
V 292.402†	14223.2	58.19	0.41%	[100]	ug/L
Zn 206.200†	12821.9	60.11	0.47%	[100]	ug/L
Sn 189.927†	2371.0	26.35	1.11%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 4/4/2006 5:28:03 PM
Data Type: Reprocessed on 4/4/2006 6:09:05 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2344499.5	8011.59	0.34%	101.0	%
Y	318435.7	7365.44	2.31%	99.52	%
Ag 328.068†	481606.4	993.48	0.21%	[1000]	ug/L
Al 308.215 R†	1640.7	61.15	3.73%	[1000]	ug/L
As 188.979†	22199.0	104.71	0.47%	[1000]	ug/L
B 249.677†	162120.5	885.42	0.55%	[1000]	ug/L
Ba 233.527†	430152.2	3005.27	0.70%	[1000]	ug/L
Be 313.107†	3825368.0	11822.75	0.31%	[1000]	ug/L
Ca 315.887 R†	12000.8	118.37	0.99%	[1000]	ug/L
Cd 214.440†	381843.6	2559.16	0.67%	[1000]	ug/L
Co 228.616†	123955.1	877.97	0.71%	[1000]	ug/L
Cr 267.716†	107699.9	682.26	0.63%	[1000]	ug/L
Cu 324.752†	745762.3	3120.35	0.42%	[1000]	ug/L
Fe 238.204 R†	12139.1	165.84	1.37%	[1000]	ug/L
K 766.490 R†	4998.0	194.34	3.89%	[1000]	ug/L
Mg 279.077 R†	2142.0	56.82	2.65%	[1000]	ug/L
Mn 257.610†	1014143.8	5726.37	0.56%	[1000]	ug/L
Mo 202.031†	49699.6	296.43	0.60%	[1000]	ug/L
Na 589.592 R†	11130.7	294.05	2.64%	[1000]	ug/L
Ni 231.604†	68234.2	324.92	0.48%	[1000]	ug/L
Pb 220.353†	60177.8	208.32	0.35%	[1000]	ug/L
Sb 206.836†	42544.3	328.64	0.77%	[1000]	ug/L
Se 196.026†	21619.1	234.54	1.08%	[1000]	ug/L
Ti 334.940 R†	1119743.6	6201.36	0.55%	[1000]	ug/L
Tl 190.801†	24620.3	144.08	0.59%	[1000]	ug/L
V 292.402†	142527.8	772.11	0.54%	[1000]	ug/L
Zn 206.200†	129061.5	784.20	0.61%	[1000]	ug/L
Sn 189.927†	24094.3	242.68	1.01%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 4/4/2006 5:30:16 PM
Data Type: Reprocessed on 4/4/2006 6:09:06 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2266771.6	5880.93	0.26%	97.63	%
Y	306655.7	2871.28	0.94%	95.84	%
Ag 328.068†	963676.1	3353.62	0.35%	[2000]	ug/L
Al 308.215 R†	17362.4	30.05	0.17%	[10000]	ug/L
As 188.979†	220459.9	626.64	0.28%	[10000]	ug/L
B 249.677†	1669145.9	9905.66	0.59%	[10000]	ug/L
Ba 233.527†	4214312.8	36786.28	0.87%	[10000]	ug/L
Ca 315.887 R†	124801.4	248.88	0.20%	[10000]	ug/L
Cd 214.440†	3696839.7	36964.46	1.00%	[10000]	ug/L
Co 228.616†	1211077.3	4636.43	0.38%	[10000]	ug/L
Cr 267.716†	1059842.0	3739.25	0.35%	[10000]	ug/L
Cu 324.752†	7456864.4	56922.85	0.76%	[10000]	ug/L
Fe 238.204 R†	122314.1	222.51	0.18%	[10000]	ug/L
K 766.490 R†	52211.0	155.59	0.30%	[10000]	ug/L
Mg 279.077 R†	21437.3	59.10	0.28%	[10000]	ug/L
Mn 257.610†	9707450.0	85673.17	0.88%	[10000]	ug/L
Mo 202.031†	488861.8	637.62	0.13%	[10000]	ug/L
Na 589.592 R†	112894.7	487.83	0.43%	[10000]	ug/L
Ni 231.604†	661675.5	1869.75	0.28%	[10000]	ug/L
Pb 220.353†	582482.1	995.77	0.17%	[10000]	ug/L
Sb 206.836†	420821.8	1680.44	0.40%	[10000]	ug/L
Se 196.026†	216073.9	279.48	0.13%	[10000]	ug/L
Ti 334.940 R†	10982976.2	96876.58	0.88%	[10000]	ug/L
Tl 190.801†	240796.5	501.02	0.21%	[10000]	ug/L
V 292.402†	1442838.9	5056.47	0.35%	[10000]	ug/L
Zn 206.200†	1292284.8	3151.63	0.24%	[10000]	ug/L
Sn 189.927†	238041.9	440.31	0.18%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 4/4/2006 5:33:04 PM
Data Type: Reprocessed on 4/4/2006 6:09:07 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	134.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2147923.6	14463.36	0.67%	92.51	%
Y	301466.0	3325.98	1.10%	94.22	%
Al 308.215 R†	179649.8	1000.15	0.56%	[100000]	ug/L
Ca 315.887 R†	1258268.1	3633.51	0.29%	[100000]	ug/L
Fe 238.204 R†	1221596.7	5743.79	0.47%	[100000]	ug/L
K 766.490 R†	525611.9	3278.16	0.62%	[100000]	ug/L
Mg 279.077 R†	212619.2	433.46	0.20%	[100000]	ug/L
Na 589.592 R†	1124353.6	6389.13	0.57%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	481.8	0.00000	1.000000	
Al 308.215 R	4	Lin Thru 0	0.0	1.796	0.00000	0.999994	
As 188.979	4	Lin Thru 0	0.0	22.05	0.00000	1.000000	
B 249.677	3	Lin Thru 0	0.0	166.9	0.00000	0.999996	
Ba 233.527	4	Lin Thru 0	0.0	421.5	0.00000	0.999998	
Be 313.107	3	Lin Thru 0	0.0	3826	0.00000	0.999998	
Ca 315.887 R	4	Lin Thru 0	0.0	12.58	0.00000	1.000000	
Cd 214.440	4	Lin Thru 0	0.0	369.8	0.00000	0.999995	
Co 228.616	4	Lin Thru 0	0.0	121.1	0.00000	0.999997	
Cr 267.716	4	Lin Thru 0	0.0	106.0	0.00000	0.999999	
Cu 324.752	4	Lin Thru 0	0.0	745.7	0.00000	1.000000	
Fe 238.204 R	4	Lin Thru 0	0.0	12.22	0.00000	1.000000	
K 766.490 R	4	Lin Thru 0	0.0	5.256	0.00000	1.000000	
Mg 279.077 R	4	Lin Thru 0	0.0	2.126	0.00000	1.000000	
Mn 257.610	4	Lin Thru 0	0.0	971.2	0.00000	0.999990	
Mo 202.031	4	Lin Thru 0	0.0	48.89	0.00000	0.999999	
Na 589.592 R	4	Lin Thru 0	0.0	11.24	0.00000	1.000000	
Ni 231.604	4	Lin Thru 0	0.0	66.19	0.00000	0.999995	
Pb 220.353	4	Lin Thru 0	0.0	58.27	0.00000	0.999995	
Sb 206.836	4	Lin Thru 0	0.0	42.09	0.00000	0.999999	
Se 196.026	4	Lin Thru 0	0.0	21.61	0.00000	1.000000	
Ti 334.940 R	4	Lin Thru 0	0.0	1099	0.00000	0.999998	
Tl 190.801	4	Lin Thru 0	0.0	24.08	0.00000	0.999998	
V 292.402	4	Lin Thru 0	0.0	144.3	0.00000	0.999999	
Zn 206.200	4	Lin Thru 0	0.0	129.2	0.00000	1.000000	
Sn 189.927	4	Lin Thru 0	0.0	23.81	0.00000	0.999999	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397007 File : 040406ar.txt Time : 04-APR-2006 17:35
Cal : 86136397001 Caldate: 04-APR-2006
Standards: S3049

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	41.173	41.801	5000	4966	ug/L	-1	10	
Arsenic	A	22.526	21.803	5000	4945	ug/L	-1	10	
Barium	A	432.67	416.65	5000	4942	ug/L	-1	10	
Beryllium	A	3870.8	3779.2	500.0	493.9	ug/L	-1	10	
Boron	A	163.48	164.32	5000	4924	ug/L	-2	10	
Cadmium	A	378.75	365.76	5000	4945	ug/L	-1	10	
Chromium	A	113.31	102.59	5000	4839	ug/L	-3	10	
Cobalt	A	121.32	115.97	5000	4777	ug/L	-4	10	
Copper	A	745.98	705.84	5000	4733	ug/L	-5	10	
Lead	A	59.353	55.972	5000	4803	ug/L	-4	10	
Manganese	A	1013.6	950.91	5000	4896	ug/L	-2	10	
Molybdenum	A	49.353	49.040	5000	5015	ug/L	0	10	
Nickel	A	65.827	64.181	5000	4848	ug/L	-3	10	
Selenium	A	21.995	21.083	5000	4879	ug/L	-2	10	
Silver	A	474.99	453.62	1000	941.5	ug/L	-6	10	
Thallium	A	23.939	23.532	5000	4885	ug/L	-2	10	
Tin	A	23.704	23.001	5000	4831	ug/L	-3	10	
Titanium	A	1122.7	1066.7	5000	4855	ug/L	-3	10	
Vanadium	A	143.51	139.98	5000	4851	ug/L	-3	10	
Zinc	A	130.22	125.34	5000	4850	ug/L	-3	10	
Aluminum	R	1.6576	1.6487	20000	18360	ug/L	-8	10	
Calcium	R	12.328	11.770	20000	18710	ug/L	-6	10	
Iron	R	12.327	11.522	20000	18860	ug/L	-6	10	
Magnesium	R	2.1217	2.0112	20000	18920	ug/L	-5	10	
Potassium	R	5.1409	4.9323	20000	18770	ug/L	-6	10	
Sodium	R	11.304	10.585	20000	18830	ug/L	-6	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	2257273	-2.78

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397020 File : 040406ar.txt Time : 04-APR-2006 18:53
Cal : 86136397001 Caldate: 04-APR-2006
Standards: S3050

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	41.173	42.813	5000	5086	ug/L	2	10	
Arsenic	A	22.526	22.068	5000	5005	ug/L	0	10	
Barium	A	432.67	419.91	5000	4981	ug/L	0	10	
Beryllium	A	3870.8	3815.1	500.0	498.6	ug/L	0	10	
Boron	A	163.48	165.20	5000	4950	ug/L	-1	10	
Cadmium	A	378.75	368.30	5000	4980	ug/L	0	10	
Chromium	A	113.31	103.65	5000	4889	ug/L	-2	10	
Cobalt	A	121.32	117.02	5000	4820	ug/L	-4	10	
Copper	A	745.98	711.69	5000	4772	ug/L	-5	10	
Lead	A	59.353	56.425	5000	4842	ug/L	-3	10	
Manganese	A	1013.6	954.91	5000	4916	ug/L	-2	10	
Molybdenum	A	49.353	49.244	5000	5036	ug/L	1	10	
Nickel	A	65.827	64.950	5000	4907	ug/L	-2	10	
Selenium	A	21.995	21.220	5000	4910	ug/L	-2	10	
Silver	A	474.99	458.66	1000	952.0	ug/L	-5	10	
Thallium	A	23.939	23.535	5000	4886	ug/L	-2	10	
Tin	A	23.704	23.266	5000	4886	ug/L	-2	10	
Titanium	A	1122.7	1076.9	5000	4902	ug/L	-2	10	
Vanadium	A	143.51	141.56	5000	4906	ug/L	-2	10	
Zinc	A	130.22	126.29	5000	4886	ug/L	-2	10	
Aluminum	R	1.6576	1.6660	20000	18550	ug/L	-7	10	
Calcium	R	12.328	12.100	20000	19230	ug/L	-4	10	
Iron	R	12.327	11.771	20000	19270	ug/L	-4	10	
Magnesium	R	2.1217	2.0663	20000	19440	ug/L	-3	10	
Potassium	R	5.1409	4.9626	20000	18880	ug/L	-6	10	
Sodium	R	11.304	10.669	20000	18980	ug/L	-5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	2254103	-2.92

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397034 File : 040406ar.txt Time : 04-APR-2006 19:45
Cal : 86136397001 Caldate: 04-APR-2006
Standards: S3050

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	41.173	41.983	5000	4988	ug/L	0	10	
Arsenic	A	22.526	21.678	5000	4916	ug/L	-2	10	
Barium	A	432.67	417.86	5000	4957	ug/L	-1	10	
Beryllium	A	3870.8	3787.4	500.0	494.9	ug/L	-1	10	
Boron	A	163.48	163.62	5000	4903	ug/L	-2	10	
Cadmium	A	378.75	365.55	5000	4942	ug/L	-1	10	
Chromium	A	113.31	101.20	5000	4774	ug/L	-5	10	
Cobalt	A	121.32	116.31	5000	4791	ug/L	-4	10	
Copper	A	745.98	710.60	5000	4765	ug/L	-5	10	
Lead	A	59.353	55.272	5000	4743	ug/L	-5	10	
Manganese	A	1013.6	951.32	5000	4898	ug/L	-2	10	
Molybdenum	A	49.353	48.518	5000	4962	ug/L	-1	10	
Nickel	A	65.827	63.720	5000	4814	ug/L	-4	10	
Selenium	A	21.995	20.826	5000	4819	ug/L	-4	10	
Silver	A	474.99	451.79	1000	937.7	ug/L	-6	10	
Thallium	A	23.939	23.217	5000	4820	ug/L	-4	10	
Tin	A	23.704	22.953	5000	4821	ug/L	-4	10	
Titanium	A	1122.7	1073.8	5000	4887	ug/L	-2	10	
Vanadium	A	143.51	140.68	5000	4876	ug/L	-2	10	
Zinc	A	130.22	125.31	5000	4848	ug/L	-3	10	
Aluminum	R	1.6576	1.6749	20000	18650	ug/L	-7	10	
Calcium	R	12.328	12.141	20000	19300	ug/L	-4	10	
Iron	R	12.327	11.828	20000	19360	ug/L	-3	10	
Magnesium	R	2.1217	2.0563	20000	19340	ug/L	-3	10	
Potassium	R	5.1409	4.9948	20000	19010	ug/L	-5	10	
Sodium	R	11.304	10.796	20000	19200	ug/L	-4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	2242873	-3.40

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397048 File : 040406ar.txt Time : 04-APR-2006 20:40
Cal : 86136397001 Caldate: 04-APR-2006
Standards: S3050

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	41.173	42.053	5000	4996	ug/L	0	10	
Arsenic	A	22.526	21.663	5000	4913	ug/L	-2	10	
Barium	A	432.67	417.84	5000	4956	ug/L	-1	10	
Beryllium	A	3870.8	3785.6	500.0	494.7	ug/L	-1	10	
Boron	A	163.48	163.70	5000	4905	ug/L	-2	10	
Cadmium	A	378.75	364.85	5000	4933	ug/L	-1	10	
Chromium	A	113.31	103.01	5000	4859	ug/L	-3	10	
Cobalt	A	121.32	116.28	5000	4790	ug/L	-4	10	
Copper	A	745.98	711.17	5000	4769	ug/L	-5	10	
Lead	A	59.353	55.477	5000	4761	ug/L	-5	10	
Manganese	A	1013.6	948.57	5000	4884	ug/L	-2	10	
Molybdenum	A	49.353	48.674	5000	4977	ug/L	0	10	
Nickel	A	65.827	63.951	5000	4831	ug/L	-3	10	
Selenium	A	21.995	20.735	5000	4798	ug/L	-4	10	
Silver	A	474.99	453.05	1000	940.3	ug/L	-6	10	
Thallium	A	23.939	23.141	5000	4804	ug/L	-4	10	
Tin	A	23.704	22.994	5000	4829	ug/L	-3	10	
Titanium	A	1122.7	1073.9	5000	4888	ug/L	-2	10	
Vanadium	A	143.51	140.82	5000	4881	ug/L	-2	10	
Zinc	A	130.22	125.04	5000	4838	ug/L	-3	10	
Aluminum	R	1.6576	1.6673	20000	18570	ug/L	-7	10	
Calcium	R	12.328	12.177	20000	19360	ug/L	-3	10	
Iron	R	12.327	11.821	20000	19350	ug/L	-3	10	
Magnesium	R	2.1217	2.0674	20000	19450	ug/L	-3	10	
Potassium	R	5.1409	4.9899	20000	18990	ug/L	-5	10	
Sodium	R	11.304	10.797	20000	19210	ug/L	-4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	2256138	-2.83

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397054 File : 040406ar.txt Time : 04-APR-2006 20:59
Cal : 86136397001 Caldate: 04-APR-2006
Standards: S3050

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	41.173	42.139	5000	5006	ug/L	0	10	
Arsenic	A	22.526	21.651	5000	4910	ug/L	-2	10	
Barium	A	432.67	419.84	5000	4980	ug/L	0	10	
Beryllium	A	3870.8	3804.0	500.0	497.1	ug/L	-1	10	
Boron	A	163.48	164.44	5000	4927	ug/L	-1	10	
Cadmium	A	378.75	366.28	5000	4952	ug/L	-1	10	
Chromium	A	113.31	103.52	5000	4883	ug/L	-2	10	
Cobalt	A	121.32	116.73	5000	4808	ug/L	-4	10	
Copper	A	745.98	715.23	5000	4796	ug/L	-4	10	
Lead	A	59.353	55.551	5000	4767	ug/L	-5	10	
Manganese	A	1013.6	953.12	5000	4907	ug/L	-2	10	
Molybdenum	A	49.353	48.672	5000	4977	ug/L	0	10	
Nickel	A	65.827	64.067	5000	4840	ug/L	-3	10	
Selenium	A	21.995	20.786	5000	4810	ug/L	-4	10	
Silver	A	474.99	453.49	1000	941.2	ug/L	-6	10	
Thallium	A	23.939	23.195	5000	4815	ug/L	-4	10	
Tin	A	23.704	22.930	5000	4816	ug/L	-4	10	
Titanium	A	1122.7	1080.8	5000	4919	ug/L	-2	10	
Vanadium	A	143.51	141.73	5000	4912	ug/L	-2	10	
Zinc	A	130.22	125.44	5000	4854	ug/L	-3	10	
Aluminum	R	1.6576	1.6613	20000	18500	ug/L	-7	10	
Calcium	R	12.328	12.160	20000	19330	ug/L	-3	10	
Iron	R	12.327	11.777	20000	19280	ug/L	-4	10	
Magnesium	R	2.1217	2.0598	20000	19370	ug/L	-3	10	
Potassium	R	5.1409	4.9122	20000	18690	ug/L	-7	10	
Sodium	R	11.304	10.656	20000	18950	ug/L	-5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	2240680	-3.50

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397068 File : 040406ar.txt Time : 04-APR-2006 21:49
Cal : 86136397001 Caldate: 04-APR-2006
Standards: S3050

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	41.173	42.268	5000	5022	ug/L	0	10	
Arsenic	A	22.526	21.715	5000	4925	ug/L	-2	10	
Barium	A	432.67	419.68	5000	4978	ug/L	0	10	
Beryllium	A	3870.8	3799.1	500.0	496.5	ug/L	-1	10	
Boron	A	163.48	164.28	5000	4923	ug/L	-2	10	
Cadmium	A	378.75	366.93	5000	4961	ug/L	-1	10	
Chromium	A	113.31	103.47	5000	4881	ug/L	-2	10	
Cobalt	A	121.32	116.82	5000	4812	ug/L	-4	10	
Copper	A	745.98	712.64	5000	4778	ug/L	-4	10	
Lead	A	59.353	55.546	5000	4766	ug/L	-5	10	
Manganese	A	1013.6	953.75	5000	4910	ug/L	-2	10	
Molybdenum	A	49.353	48.626	5000	4973	ug/L	-1	10	
Nickel	A	65.827	63.939	5000	4830	ug/L	-3	10	
Selenium	A	21.995	20.960	5000	4850	ug/L	-3	10	
Silver	A	474.99	452.56	1000	939.3	ug/L	-6	10	
Thallium	A	23.939	23.238	5000	4824	ug/L	-4	10	
Tin	A	23.704	22.981	5000	4826	ug/L	-3	10	
Titanium	A	1122.7	1077.7	5000	4905	ug/L	-2	10	
Vanadium	A	143.51	141.34	5000	4899	ug/L	-2	10	
Zinc	A	130.22	125.74	5000	4865	ug/L	-3	10	
Aluminum	R	1.6576	1.7009	20000	18940	ug/L	-5	10	
Calcium	R	12.328	12.454	20000	19800	ug/L	-1	10	
Iron	R	12.327	12.100	20000	19810	ug/L	-1	10	
Magnesium	R	2.1217	2.1129	20000	19870	ug/L	-1	10	
Potassium	R	5.1409	5.0106	20000	19070	ug/L	-5	10	
Sodium	R	11.304	10.943	20000	19460	ug/L	-3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	2258318	-2.74

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397080 File : 040406ar.txt Time : 04-APR-2006 22:27
Cal : 86136397001 Caldate: 04-APR-2006
Standards: S3050

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	41.173	42.526	5000	5052	ug/L	1	10	
Arsenic	A	22.526	21.838	5000	4953	ug/L	-1	10	
Barium	A	432.67	421.91	5000	5005	ug/L	0	10	
Beryllium	A	3870.8	3814.8	500.0	498.5	ug/L	0	10	
Boron	A	163.48	165.07	5000	4946	ug/L	-1	10	
Cadmium	A	378.75	369.78	5000	5000	ug/L	0	10	
Chromium	A	113.31	103.99	5000	4905	ug/L	-2	10	
Cobalt	A	121.32	117.49	5000	4839	ug/L	-3	10	
Copper	A	745.98	715.67	5000	4799	ug/L	-4	10	
Lead	A	59.353	55.826	5000	4790	ug/L	-4	10	
Manganese	A	1013.6	958.30	5000	4934	ug/L	-1	10	
Molybdenum	A	49.353	48.808	5000	4991	ug/L	0	10	
Nickel	A	65.827	64.369	5000	4863	ug/L	-3	10	
Selenium	A	21.995	20.970	5000	4852	ug/L	-3	10	
Silver	A	474.99	455.35	1000	945.1	ug/L	-5	10	
Thallium	A	23.939	23.364	5000	4850	ug/L	-3	10	
Tin	A	23.704	23.166	5000	4865	ug/L	-3	10	
Titanium	A	1122.7	1084.3	5000	4935	ug/L	-1	10	
Vanadium	A	143.51	142.02	5000	4922	ug/L	-2	10	
Zinc	A	130.22	126.71	5000	4902	ug/L	-2	10	
Aluminum	R	1.6576	1.6950	20000	18880	ug/L	-6	10	
Calcium	R	12.328	12.400	20000	19710	ug/L	-1	10	
Iron	R	12.327	12.038	20000	19710	ug/L	-1	10	
Magnesium	R	2.1217	2.1109	20000	19850	ug/L	-1	10	
Potassium	R	5.1409	5.0327	20000	19150	ug/L	-4	10	
Sodium	R	11.304	10.902	20000	19390	ug/L	-3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	2249279	-3.13

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397093 File : 040406ar.txt Time : 04-APR-2006 23:09
Cal : 86136397001 Caldate: 04-APR-2006
Standards: S3050

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	41.173	42.551	5000	5055	ug/L	1	10	
Arsenic	A	22.526	21.740	5000	4930	ug/L	-1	10	
Barium	A	432.67	422.72	5000	5014	ug/L	0	10	
Beryllium	A	3870.8	3805.9	500.0	497.4	ug/L	-1	10	
Boron	A	163.48	164.30	5000	4923	ug/L	-2	10	
Cadmium	A	378.75	367.92	5000	4974	ug/L	-1	10	
Chromium	A	113.31	101.55	5000	4790	ug/L	-4	10	
Cobalt	A	121.32	117.43	5000	4837	ug/L	-3	10	
Copper	A	745.98	716.75	5000	4806	ug/L	-4	10	
Lead	A	59.353	55.661	5000	4776	ug/L	-4	10	
Manganese	A	1013.6	955.17	5000	4918	ug/L	-2	10	
Molybdenum	A	49.353	48.797	5000	4990	ug/L	0	10	
Nickel	A	65.827	64.268	5000	4855	ug/L	-3	10	
Selenium	A	21.995	20.892	5000	4834	ug/L	-3	10	
Silver	A	474.99	454.92	1000	944.2	ug/L	-6	10	
Thallium	A	23.939	23.269	5000	4831	ug/L	-3	10	
Tin	A	23.704	23.092	5000	4850	ug/L	-3	10	
Titanium	A	1122.7	1085.9	5000	4943	ug/L	-1	10	
Vanadium	A	143.51	141.77	5000	4914	ug/L	-2	10	
Zinc	A	130.22	126.00	5000	4875	ug/L	-2	10	
Aluminum	R	1.6576	1.6870	20000	18790	ug/L	-6	10	
Calcium	R	12.328	12.328	20000	19600	ug/L	-2	10	
Iron	R	12.327	11.954	20000	19570	ug/L	-2	10	
Magnesium	R	2.1217	2.0926	20000	19680	ug/L	-2	10	
Potassium	R	5.1409	4.9902	20000	18990	ug/L	-5	10	
Sodium	R	11.304	10.766	20000	19150	ug/L	-4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	2247203	-3.22

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397008 File : 040406ar.txt Time : 04-APR-2006 17:38
Cal : 86136397001 Caldate: 04-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	[1.975]	5.000	1.047	ug/L	!ib
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	[38.71]	100.0	13.57	ug/L	!ib
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	[0.7796]	3.000	0.5698	ug/L	!ib
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[2.356]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[4.105]	5.000	0.9317	ug/L	!ib
Tin	A	[7.790]	40.00	4.403	ug/L	!ib
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	2332529	0.46

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397022 File : 040406ar.txt Time : 04-APR-2006 18:59
Cal : 86136397001 Caldate: 04-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[0.5127]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[0.9562]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	2326797	0.21

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397036 File : 040406ar.txt Time : 04-APR-2006 19:51
Cal : 86136397001 Caldate: 04-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	ND	5.000	0.4303	ug/L	
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[1.763]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	2304221	-0.76

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397050 File : 040406ar.txt Time : 04-APR-2006 20:46
Cal : 86136397001 Caldate: 04-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	[0.7003]	3.000	0.5698	ug/L	!ib
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	ND	5.000	0.4303	ug/L	
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	2309286	-0.54

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397056 File : 040406ar.txt Time : 04-APR-2006 21:05
Cal : 86136397001 Caldate: 04-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	[1.050]	5.000	1.047	ug/L	!ib
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[0.4456]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[1.185]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	2309831	-0.52

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397070 File : 040406ar.txt Time : 04-APR-2006 21:56
Cal : 86136397001 Caldate: 04-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	[1.220]	5.000	1.047	ug/L	!ib
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	ND	5.000	0.4303	ug/L	
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[1.128]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	2321106	-0.03

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397082 File : 040406ar.txt Time : 04-APR-2006 22:33
Cal : 86136397001 Caldate: 04-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	[13.68]	100.0	13.57	ug/L	!ib
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	ND	5.000	0.4303	ug/L	
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[1.184]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	2282956	-1.68

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397095 File : 040406ar.txt Time : 04-APR-2006 23:15
Cal : 86136397001 Caldate: 04-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[0.4786]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[1.518]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	2308939	-0.56

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397009 File : 040406ar.txt Time : 04-APR-2006 17:42
Cal : 86136397001 Caldate: 04-APR-2006
Standards: S2555

Analyte	Ch	Quant	RL	Units	Flags
Antimony	A	[1.530]	5.000	ug/L	
Arsenic	A	[-4.750]	5.000	ug/L	
Barium	A	[0.1347]	5.000	ug/L	
Beryllium	A	[0.04481]	2.000	ug/L	
Boron	A	[9.002]	100.0	ug/L	
Cadmium	A	[3.433]	5.000	ug/L	
Cobalt	A	[-1.900]	5.000	ug/L	
Lead	A	[-1.150]	3.000	ug/L	
Molybdenum	A	[-0.7944]	5.000	ug/L	
Selenium	A	[2.916]	5.000	ug/L	
Silver	A	[2.449]	5.000	ug/L	
Thallium	A	[-2.042]	5.000	ug/L	
Tin	A	[14.18]	40.00	ug/L	
Zinc	A	[6.483]	20.00	ug/L	
Potassium	R	[-1.318]	500.0	ug/L	
Sodium	R	[13.12]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19580	ug/L	98
Copper	A	20000	20620	ug/L	103
Manganese	A	20000	18910	ug/L	95
Nickel	A	20000	17770	ug/L	89
Titanium	A	20000	20350	ug/L	102
Vanadium	A	20000	20580	ug/L	103
Aluminum	R	500000	495500	ug/L	99
Calcium	R	500000	479400	ug/L	96
Iron	R	200000	186400	ug/L	93
Magnesium	R	500000	483700	ug/L	97

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	1951400	-15.96

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397010 File : 040406ar.txt Time : 04-APR-2006 18:17
Cal : 86136397001 Caldate: 04-APR-2006
Standards: S2570

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	534.9	ug/L	7	20	
Arsenic	A	500.0	518.4	ug/L	4	20	
Barium	A	500.0	526.3	ug/L	5	20	
Beryllium	A	500.0	522.8	ug/L	5	20	
Cadmium	A	1000	977.0	ug/L	-2	20	
Chromium	A	500.0	512.8	ug/L	3	20	
Cobalt	A	500.0	450.8	ug/L	-10	20	
Copper	A	500.0	499.4	ug/L	0	20	
Lead	A	1000	928.4	ug/L	-7	20	
Manganese	A	500.0	515.3	ug/L	3	20	
Molybdenum	A	500.0	509.8	ug/L	2	20	
Nickel	A	1000	915.9	ug/L	-8	20	
Selenium	A	500.0	502.8	ug/L	1	20	
Silver	A	1000	1065	ug/L	6	20	
Thallium	A	500.0	482.2	ug/L	-4	20	
Titanium	A	20000	20150	ug/L	1		
Vanadium	A	500.0	543.8	ug/L	9	20	
Zinc	A	1000	938.0	ug/L	-6	20	
Aluminum	R	500000	499600	ug/L	0		
Calcium	R	500000	484000	ug/L	-3		
Iron	R	200000	186600	ug/L	-7		
Magnesium	R	500000	483100	ug/L	-3		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	1936249	-16.61

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397052 File : 040406ar.txt Time : 04-APR-2006 20:53
Cal : 86136397001 Caldate: 04-APR-2006
Standards: S2570

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	542.9	ug/L	9	20	
Arsenic	A	500.0	517.1	ug/L	3	20	
Barium	A	500.0	530.1	ug/L	6	20	
Beryllium	A	500.0	525.3	ug/L	5	20	
Cadmium	A	1000	981.8	ug/L	-2	20	
Chromium	A	500.0	514.9	ug/L	3	20	
Cobalt	A	500.0	454.5	ug/L	-9	20	
Copper	A	500.0	501.5	ug/L	0	20	
Lead	A	1000	927.8	ug/L	-7	20	
Manganese	A	500.0	517.3	ug/L	3	20	
Molybdenum	A	500.0	507.9	ug/L	2	20	
Nickel	A	1000	919.4	ug/L	-8	20	
Selenium	A	500.0	496.8	ug/L	-1	20	
Silver	A	1000	1068	ug/L	7	20	
Thallium	A	500.0	483.1	ug/L	-3	20	
Titanium	A	20000	20360	ug/L	2		
Vanadium	A	500.0	544.9	ug/L	9	20	
Zinc	A	1000	939.4	ug/L	-6	20	
Aluminum	R	500000	503800	ug/L	1		
Calcium	R	500000	488500	ug/L	-2		
Iron	R	200000	189700	ug/L	-5		
Magnesium	R	500000	488900	ug/L	-2		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	1947093	-16.14

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397059 File : 040406ar.txt Time : 04-APR-2006 21:20
Cal : 86136397001 Caldate: 04-APR-2006
Standards: S2570

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	532.0	ug/L	6	20	
Arsenic	A	500.0	510.5	ug/L	2	20	
Barium	A	500.0	531.2	ug/L	6	20	
Beryllium	A	500.0	524.0	ug/L	5	20	
Cadmium	A	1000	981.2	ug/L	-2	20	
Chromium	A	500.0	512.1	ug/L	2	20	
Cobalt	A	500.0	450.4	ug/L	-10	20	
Copper	A	500.0	501.3	ug/L	0	20	
Lead	A	1000	925.5	ug/L	-7	20	
Manganese	A	500.0	516.0	ug/L	3	20	
Molybdenum	A	500.0	506.5	ug/L	1	20	
Nickel	A	1000	915.6	ug/L	-8	20	
Selenium	A	500.0	501.4	ug/L	0	20	
Silver	A	1000	1068	ug/L	7	20	
Thallium	A	500.0	477.3	ug/L	-5	20	
Titanium	A	20000	20400	ug/L	2		
Vanadium	A	500.0	541.9	ug/L	8	20	
Zinc	A	1000	933.6	ug/L	-7	20	
Aluminum	R	500000	504100	ug/L	1		
Calcium	R	500000	494500	ug/L	-1		
Iron	R	200000	192100	ug/L	-4		
Magnesium	R	500000	487900	ug/L	-2		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	1937382	-16.56

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86136397091 File : 040406ar.txt Time : 04-APR-2006 23:03
Cal : 86136397001 Caldate: 04-APR-2006
Standards: S2570

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	539.0	ug/L	8	20	
Arsenic	A	500.0	516.3	ug/L	3	20	
Barium	A	500.0	534.1	ug/L	7	20	
Beryllium	A	500.0	526.1	ug/L	5	20	
Cadmium	A	1000	993.1	ug/L	-1	20	
Chromium	A	500.0	514.1	ug/L	3	20	
Cobalt	A	500.0	452.6	ug/L	-9	20	
Copper	A	500.0	504.3	ug/L	1	20	
Lead	A	1000	928.7	ug/L	-7	20	
Manganese	A	500.0	520.6	ug/L	4	20	
Molybdenum	A	500.0	506.2	ug/L	1	20	
Nickel	A	1000	916.1	ug/L	-8	20	
Selenium	A	500.0	501.1	ug/L	0	20	
Silver	A	1000	1075	ug/L	7	20	
Thallium	A	500.0	482.4	ug/L	-4	20	
Titanium	A	20000	20390	ug/L	2		
Vanadium	A	500.0	540.0	ug/L	8	20	
Zinc	A	1000	937.5	ug/L	-6	20	
Aluminum	R	500000	504500	ug/L	1		
Calcium	R	500000	492600	ug/L	-1		
Iron	R	200000	190500	ug/L	-5		
Magnesium	R	500000	495000	ug/L	-1		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2321860	1947731	-16.11

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86136397 Instrument: MET08 PE ICP Begun: 04-APR-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	040406ar	ICALBLK				04-APR-2006 17:17	1.0	1.0					
002	040406ar	ICAL	CRIM08			04-APR-2006 17:21	1.0	1.0				1	
003	040406ar	ICAL	CS100			04-APR-2006 17:24	1.0	1.0				2	
004	040406ar	ICAL	CS1K			04-APR-2006 17:28	1.0	1.0				3	
005	040406ar	ICAL	CS10K			04-APR-2006 17:30	1.0	1.0				4	
006	040406ar	ICAL	CS100K			04-APR-2006 17:33	1.0	1.0				5	
007	040406ar	ICV				04-APR-2006 17:35	1.0	1.0			5000	6	
008	040406ar	ICB				04-APR-2006 17:38	1.0	1.0			5000		
009	040406ar	ICSA				04-APR-2006 17:42	1.0	1.0			5000	7	10:AL=495477
010	040406ar	ICSAB				04-APR-2006 18:17	1.0	1.0			5000	8	5:AL=499628
011	040406ar	MSS	185622-001	111807	Filtra	04-APR-2006 18:20	5.0	1.0			5000		
012	040406ar	SER	QC333520	111807	Filtra	04-APR-2006 18:24	25.0	1.0		1	5000		
013	040406ar	BLANK	QC333690	111849	Filtra	04-APR-2006 18:28	1.0	1.0			5000		
014	040406ar	BS	QC333691	111849	Filtra	04-APR-2006 18:32	1.0	1.0	1		5000		
015	040406ar	BS	QC333691	111849	Filtra	04-APR-2006 18:35	1.0	1.0			5000		
016	040406ar	BSD	QC333692	111849	Filtra	04-APR-2006 18:38	1.0	1.0	1	1	5000		333
017	040406ar	BSD	QC333692	111849	Filtra	04-APR-2006 18:43	1.0	1.0			5000		
018	040406ar	MSS	185679-011	111849	Filtra	04-APR-2006 18:46	1.0	1.0			5000		
019	040406ar	X	RINSE			04-APR-2006 18:49	1.0						
020	040406ar	CCV				04-APR-2006 18:53	1.0	1.0			5000	9	
021	040406ar	X	FLUSH			04-APR-2006 18:55	1.0						
022	040406ar	CCB				04-APR-2006 18:59	1.0	1.0			5000		
023	040406ar	X	rinse			04-APR-2006 19:03	1.0						
024	040406ar	SER	QC333695	111849	Filtra	04-APR-2006 19:07	5.0	1.0			5000		
025	040406ar	MS	QC333693	111849	Filtra	04-APR-2006 19:11	1.0	1.0			5000		
026	040406ar	MSD	QC333694	111849	Filtra	04-APR-2006 19:14	1.0	1.0			5000		
027	040406ar	PDS	QC333696	111849	Filtra	04-APR-2006 19:18	1.0	1.0			5000	10	
028	040406ar	SAMPLE	185679-001	111849	Filtra	04-APR-2006 19:21	1.0	1.0			5000		
029	040406ar	SAMPLE	185679-002	111849	Filtra	04-APR-2006 19:25	1.0	1.0			5000		
030	040406ar	SAMPLE	185679-003	111849	Filtra	04-APR-2006 19:29	1.0	1.0			5000		
031	040406ar	SAMPLE	185679-004	111849	Filtra	04-APR-2006 19:33	1.0	1.0			5000		

Stds used: 1=S2544 2=S2568 3=S2567 4=S2569 5=S2556 6=S3049 7=S2555 8=S2570 9=S3050 10=S2309

Analyst: [signature] Date: 4/4/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86136397 Instrument: MET08 PE ICP Begun: 04-APR-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	040406ar	SAMPLE	185679-005	111849	Filtra	04-APR-2006 19:37	1.0	1.0			5000		
033	040406ar	X	RINSE			04-APR-2006 19:41	1.0						
034	040406ar	CCV				04-APR-2006 19:45	1.0	1.0			5000	9	
035	040406ar	X	FLUSH			04-APR-2006 19:48	1.0						
036	040406ar	CCB				04-APR-2006 19:51	1.0	1.0			5000		
037	040406ar	SAMPLE	185679-006	111849	Filtra	04-APR-2006 19:56	1.0	1.0			5000		
038	040406ar	SAMPLE	185679-007	111849	Filtra	04-APR-2006 20:00	1.0	1.0			5000		
039	040406ar	SAMPLE	185679-008	111849	Filtra	04-APR-2006 20:04	1.0	1.0	2		5000		2:MG=133293
040	040406ar	SAMPLE	185679-010	111849	Filtra	04-APR-2006 20:07	1.0	1.0			5000		
041	040406ar	SAMPLE	185679-012	111849	Filtra	04-APR-2006 20:11	1.0	1.0			5000		
042	040406ar	SAMPLE	185679-013	111849	Filtra	04-APR-2006 20:15	1.0	1.0			5000		
043	040406ar	SAMPLE	185679-014	111849	Filtra	04-APR-2006 20:19	1.0	1.0			5000		
044	040406ar	SAMPLE	185679-015	111849	Filtra	04-APR-2006 20:24	1.0	1.0			5000		
045	040406ar	SAMPLE	185679-016	111849	Filtra	04-APR-2006 20:28	1.0	1.0	1		5000		1:MG=129387
046	040406ar	SAMPLE	185679-017	111849	Filtra	04-APR-2006 20:32	1.0	1.0			5000		
047	040406ar	X	RINSE			04-APR-2006 20:36	1.0						
048	040406ar	CCV				04-APR-2006 20:40	1.0	1.0			5000	9	
049	040406ar	X	FLUSH			04-APR-2006 20:42	1.0						
050	040406ar	CCB				04-APR-2006 20:46	1.0	1.0			5000		
051	040406ar	SAMPLE	185679-019	111849	Filtra	04-APR-2006 20:50	1.0	1.0			5000		
052	040406ar	ICSAB				04-APR-2006 20:53	1.0	1.0			5000	8	5:AL=503777
053	040406ar	X	RINSE			04-APR-2006 20:56	1.0						
054	040406ar	CCV				04-APR-2006 20:59	1.0	1.0			5000	9	
055	040406ar	X	FLUSH			04-APR-2006 21:02	1.0						
056	040406ar	CCB				04-APR-2006 21:05	1.0	1.0			5000		
057	040406ar	SAMPLE	185679-008	111849	Filtra	04-APR-2006 21:12	2.0	1.0			5000		
058	040406ar	SAMPLE	185679-016	111849	Filtra	04-APR-2006 21:16	2.0	1.0			5000		
059	040406ar	ICSAB				04-APR-2006 21:20	1.0	1.0			5000	8	5:AL=504115
060	040406ar	X	rinse			04-APR-2006 21:23	1.0						
061	040406ar	BLANK	QC333697	111850	Filtra	04-APR-2006 21:26	1.0	1.0			5000		
062	040406ar	BS	QC333698	111850	Filtra	04-APR-2006 21:30	1.0	1.0	1		5000		

Stds used: 1=S2544 2=S2568 3=S2567 4=S2569 5=S2556 6=S3049 7=S2555 8=S2570 9=S3050 10=S2309

Analyst: K Carlson Date: 4/4/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86136397 Instrument: MET08 PE ICP Begun: 04-APR-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
063	040406ar	BS	QC333698	111850	Filtra	04-APR-2006 21:33	1.0	1.0			5000		
064	040406ar	BSD	QC333699	111850	Filtra	04-APR-2006 21:36	1.0	1.0			5000		
065	040406ar	MSS	185679-009	111850	Filtra	04-APR-2006 21:39	1.0	1.0	1		5000		1:CA=108951
066	040406ar	SER	QC333702	111850	Filtra	04-APR-2006 21:42	5.0	1.0			5000		
067	040406ar	X	RINSE			04-APR-2006 21:46	1.0						
068	040406ar	CCV				04-APR-2006 21:49	1.0	1.0			5000	9	
069	040406ar	X	FLUSH			04-APR-2006 21:52	1.0						
070	040406ar	CCB				04-APR-2006 21:56	1.0	1.0			5000		
071	040406ar	MSS	185679-009	111850	Filtra	04-APR-2006 22:00	2.0	1.0			5000		
072	040406ar	SER	QC333702	111850	Filtra	04-APR-2006 22:03	10.0	1.0			5000		
073	040406ar	MS	QC333700	111850	Filtra	04-APR-2006 22:06	1.0	1.0			5000		1:CA=115948
074	040406ar	MS	QC333700	111850	Filtra	04-APR-2006 22:10	1.0	1.0			5000		1:CA=112787
075	040406ar	MSD	QC333701	111850	Filtra	04-APR-2006 22:13	1.0	1.0	1		5000		1:CA=117566
076	040406ar	MSD	QC333701	111850	Filtra	04-APR-2006 22:15	1.0	1.0		1	5000		1:CA=117496
077	040406ar	PDS	QC333703	111850	Filtra	04-APR-2006 22:17	1.0	1.0			5000	10	1:CA=115182
078	040406ar	SAMPLE	185679-020	111850	Filtra	04-APR-2006 22:20	1.0	1.0	1		5000		1:NA=141005
079	040406ar	X	RINSE			04-APR-2006 22:23	1.0						
080	040406ar	CCV				04-APR-2006 22:27	1.0	1.0			5000	9	
081	040406ar	X	FLUSH			04-APR-2006 22:30	1.0						
082	040406ar	CCB				04-APR-2006 22:33	1.0	1.0			5000		
083	040406ar	SAMPLE	185679-020	111850	Filtra	04-APR-2006 22:38	2.0	1.0			5000		
084	040406ar	SAMPLE	185679-021	111850	Filtra	04-APR-2006 22:41	1.0	1.0	1		5000		1:NA=136980
085	040406ar	SAMPLE	185679-019	111850	Water	04-APR-2006 22:44	1.0						
086	040406ar	SAMPLE	185679-021	111850	Filtra	04-APR-2006 22:47	2.0	1.0			5000		
087	040406ar	SAMPLE	185679-020	111850	Water	04-APR-2006 22:50	1.0	1.0	2		5000		1:NA=142244
088	040406ar	SAMPLE	185679-021	111850	Water	04-APR-2006 22:53	1.0	1.0	2		5000		1:NA=138967
089	040406ar	SAMPLE	185679-020	111850	Water	04-APR-2006 22:57	2.0	1.0			5000		
090	040406ar	SAMPLE	185679-021	111850	Water	04-APR-2006 23:00	2.0	1.0			5000		
091	040406ar	ICSAB				04-APR-2006 23:03	1.0					8	
092	040406ar	X	RINSE			04-APR-2006 23:06	1.0						
093	040406ar	CCV				04-APR-2006 23:09	1.0					9	

Stds used: 1=S2544 2=S2568 3=S2567 4=S2569 5=S2556 6=S3049 7=S2555 8=S2570 9=S3050 10=S2309

Analyst: KCarlyn Date: 4/4/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86136397 Instrument: MET08 PE ICP Begun: 04-APR-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
094	040406ar	X	FLUSH			04-APR-2006 23:11	1.0				
095	040406ar	CCB				04-APR-2006 23:15	1.0				

336

Stds used: 1=S2544 2=S2568 3=S2567 4=S2569 5=S2556 6=S3049 7=S2555 8=S2570 9=S3050 10=S2309

Analyst: K Carlson Date: 4/4/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56137652001
Units : ug/L

Date : 05-APR-2006 14:23
X Axis : R

Reviewer: ---
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	d0514004	56137652004	CS1	05-APR-2006 14:29	S2889
L2	d0514005	56137652005	CS2	05-APR-2006 14:35	S2890
L3	d0514006	56137652006	CS3	05-APR-2006 14:40	S2891
L4	d0514007	56137652007	CS4	05-APR-2006 14:46	S2892
L5	d0514008	56137652008	CS5	05-APR-2006 14:51	S2886
L6	d0514009	56137652009	CS6	05-APR-2006 14:57	S2887

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		3.5049	3.3817	1.6389	1.1788	1.2399	BLNK	-1.4115	0.82110		2.1889	0.999	0.995	
Antimony	0.3985	0.4123	0.4298	0.4141	0.3964	0.4003	BLNK	-0.0099	2.50274		0.4086	1.000	0.995	
Arsenic		0.8691	0.8986	0.7469	0.6837	0.6930	BLNK	-0.2795	1.44908		0.7783	1.000	0.995	
Barium	0.2198	0.1990	0.1613	0.1567	0.1505	0.1546	BLNK	-0.0343	6.50342		0.1737	1.000	0.995	
Beryllium	0.2238	0.2073	0.2289	0.2244	0.2150	0.2149	BLNK	-0.0061	4.65297		0.2190	1.000	0.995	
Cadmium	1.2604	1.1271	1.0281	0.9912	0.9287	0.9154	BLNK	-0.0624	1.08951		1.0418	1.000	0.995	
Calcium		0.0415	0.0387	0.0310	0.0314	0.0308	BLNK	-10.950	32.3514		0.0347	1.000	0.995	337
Chromium		9.9954	7.7992	5.6063	5.1867	5.3355	BLNK	-0.2670	0.18876		6.7846	1.000	0.995	
Cobalt	6.6189	6.2905	6.7323	6.6747	6.2741	6.3909	BLNK	-0.0084	0.15704		6.4969	1.000	0.995	
Copper		2.0695	1.9944	1.7487	1.6183	1.6308	BLNK	-0.1681	0.61469		1.8124	1.000	0.995	
Iron		0.1779	0.1685	0.1549	0.1553	0.1561	BLNK	-7.0929	6.41594		0.1625	1.000	0.995	
Lead	1.6111	1.6231	1.6258	1.5773	1.5546	1.5600	BLNK	-0.0213	0.64152		1.5920	1.000	0.995	
Magnesium		0.1542	0.1654	0.1603	0.1631	0.1594	BLNK	-1.1271	6.24606		0.1605	1.000	0.995	
Manganese	9.2154	8.2743	8.1819	7.3261	6.9222	7.3350	BLNK	-0.0434	0.13792		7.8758	0.999	0.995	
Molybdenum		1.7805	1.7769	1.6539	1.5477	1.5718	BLNK	-0.0628	0.63836		1.6662	1.000	0.995	
Nickel	2.6803	2.0405	1.7952	1.4962	1.3676	1.3770	BLNK	-0.1539	0.72779		1.7928	1.000	0.995	
Potassium		1.6466	1.3638	1.0485	0.9518	0.9240	BLNK	-38.974	1.07811		1.1869	1.000	0.995	
Selenium		0.1657	0.1556	0.0701	0.0593	0.0597	BLNK	-1.5798	16.9229		0.1021	1.000	0.995	
Silver	5.2658	5.1398	5.6338	5.0294	4.6084	4.5569	BLNK	-0.0205	0.21894		5.0390	1.000	0.995	
Sodium		2.1988	2.0794	1.8343	1.7227	1.7061	BLNK	-20.358	0.58564		1.9083	1.000	0.995	
Thallium		0.9618	0.9874	1.0207	1.1189	1.1885	BLNK	-0.0483	0.85183		1.0555	0.999	0.995	
Vanadium		7.1273	6.3623	5.7862	5.5419	5.9410	BLNK	-0.1089	0.17073		6.1517	0.999	0.995	
Zinc		2.9271	2.1961	1.0819	0.9020	0.8900	BLNK	-0.6608	1.12465		1.5994	1.000	0.995	

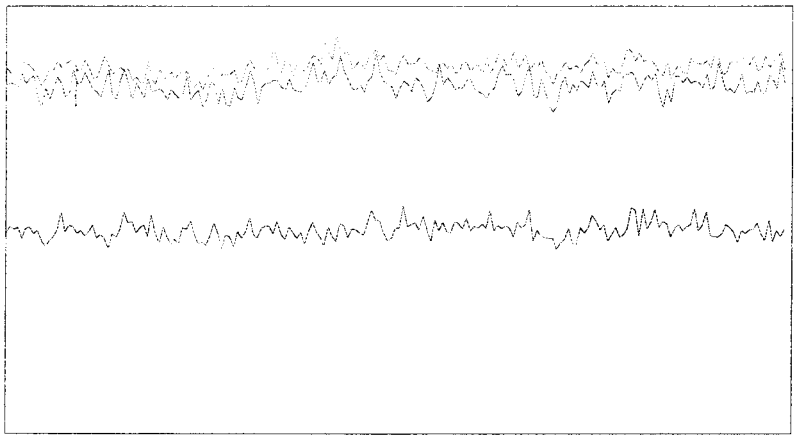
BLNK=Y=aX+[blank]

Instrument amount = a0 + response * a1 + response^2 * a2

56137652001

Tune Report

Tune File : ATUNE.U



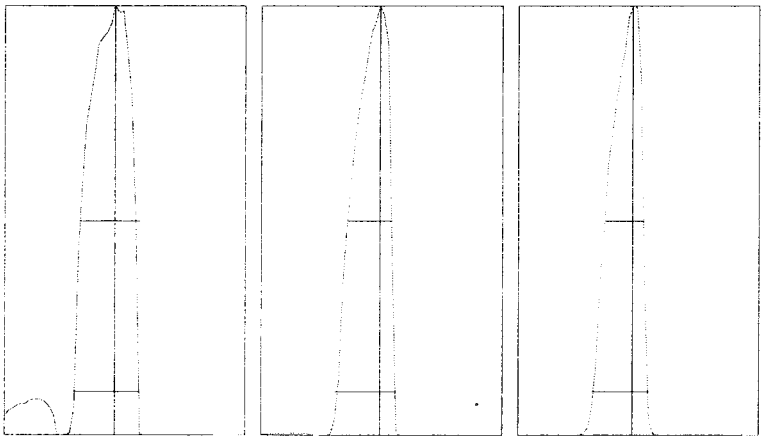
m/z:	7	89	205
Range:	50,000	20,000	20,000
Count:	23,982	16,344	16,955
Mean:	23825.5	16255.7	17155.4
RSD%:	4.26	2.99	2.44
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.32%
Doubly Charged:	70/140	2.09%

Background:

m/z:	7	89	205
Cps:	10.7	6.0	6.9



m/z:	7	89	205
Height:	24,756	15,876	16,830
Axis:	6.90	89.00	204.95
W-50%:	0.75	0.55	0.50
W-10%:	0.800	0.7500	0.700

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1320 W	Extract 1:	-101.6 V	AMU Gain:	131
RF Matching:	1.62 V	Extract 2:	-164 V	AMU Offset:	125
Smpl Depth:	6.1 mm	Einzel 1,3:	-182 V	Axis Gain:	0.9996
Torch-H:	0 mm	Einzel 2:	6 V	Axis Offset:	-0.06
Torch-V:	0.4 mm	Omega Bias:	-74 V	QP Bias:	1.5 V
Carrier Gas:	1.08 L/min	Omega (+):	1.2 V		
Makeup Gas:	0 L/min	Omega (-):	-4 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	4.4 V	Discriminator:	8.7 mV
PeriPump1:	0.1 rps	Plate Bias:	-43.2 V	Analog HV:	1790 V
PeriPump2:	--- rps			Pulse HV:	1260 V
S/C Temp:	2 degC				

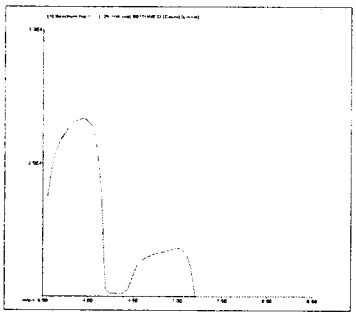
Generated : Apr 05, 2006 10:25:28
Printed : Apr 05, 2006 10:25:34

6020 QC Tune Report

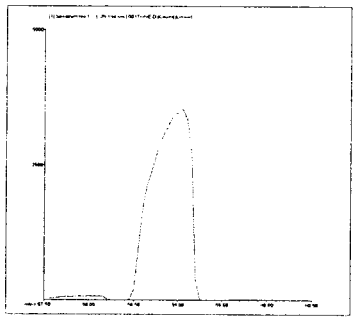
Data File: C:\ICPCHEM\1\DATA\06D0514a.B\001TUNE.D
Date Acquired: Apr 5 2006 02:12 pm
Acq. Method: TN6020.M
Operator:
Sample Name: TUN,S2898
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

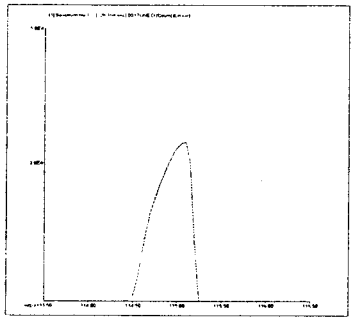
Element	Actual	Required	Flag
7 Li	3.20	5.00	
59 Co	1.37	5.00	
115 In	0.73	5.00	
205 Tl	0.42	5.00	



7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



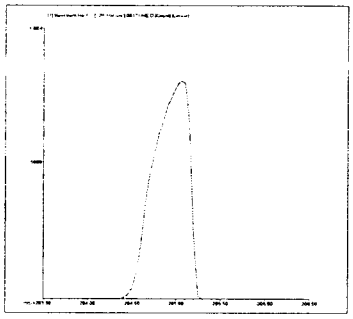
115 In

Mass Calib.

Actual:	115.10
Required:	114.90 - 115.10
Flag:	

Peak Width

Actual:	0.60
Required:	0.90
Flag:	



205 Tl

Mass Calib.

Actual:	205.05
Required:	204.90 - 205.10
Flag:	

Peak Width

Actual:	0.60
Required:	0.90
Flag:	

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06D0514a.B\002BLNK.D\002BLNK.D#
Date Acquired: Apr 5 2006 02:18 pm
Acq. Method: 60200111.M
Operator:
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update: Apr 05 2006 11:46 am
Sample Type: 6-Blank
Dilution Factor: 1.00

QC Elements

Element	Corr. Conc.		RSD(%)	Raw Conc.	High Limit	Flag
9 Be	0.001008	ppb	129.17	0.001008	1.00	
23 Na	-50.49	ppb	0.43	-50.49	1.00	
26 Mg	0.9909	ppb	12.93	0.9909	1.00	
27 Al	0.6359	ppb	18.53	0.6359	1.00	
39 K	-19.19	ppb	0.74	-19.19	1.00	
44 Ca	1.936	ppb	71.02	1.936	1.00	
51 V	0.04057	ppb	67.05	0.04057	1.00	
52 Cr	-0.01696	ppb	133.25	-0.01696	1.00	
55 Mn	-0.007278	ppb	20.89	-0.007278	1.00	
57 Fe	-1.541	ppb	44.46	-1.541	1.00	
59 Co	0.001767	ppb	88.85	0.001767	1.00	
60 Ni	-0.02806	ppb	70.06	-0.02806	1.00	
65 Cu	-0.07602	ppb	25.02	-0.07602	1.00	
66 Zn	0.02042	ppb	174.93	0.02042	1.00	
75 As	-0.1317	ppb	111.31	-0.1317	1.00	
82 Se	0.1449	ppb	575.09	0.1449	1.00	
95 Mo	0.07702	ppb	19.27	0.07702	1.00	
109 Ag	-0.002257	ppb	266.02	-0.002257	1.00	
111 Cd	-0.00515	ppb	714.17	-0.00515	1.00	
121 Sb	0.001289	ppb	621.10	0.001289	1.00	
137 Ba	0.003751	ppb	499.07	0.003751	1.00	
205 Tl	0.1174	ppb	27.01	0.1174	1.00	
208 Pb	-0.000881	ppb	73.63	-0.000881	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	341984.22	1.72	---	#VALUE!	80 - 120	
45 Sc	113773.33	0.75	---	#VALUE!	80 - 120	
72 Ge	25549.78	0.88	---	#VALUE!	80 - 120	
115 In	208273.03	0.30	---	#VALUE!	80 - 120	
209 Bi	346972.19	1.49	---	#VALUE!	80 - 120	

ISTD Ref File : ---

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Fail
ISTD: Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06D0514a.B\003CAL
Date Acquired:	Apr 5 2006 02:23 pm
Operator:	
Sample Name:	std-blk
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Apr 05 2006 11:46 am
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	338233.59	M	5347.00	1.58
9	Be	8.89	P	3.85	43.30
23	Na	79507.78	P	2094.00	2.63
26	Mg	413.33	P	60.09	14.54
27	Al	3931.11	P	148.40	3.78
39	K	82658.88	P	300.00	0.36
44	Ca	774.13	P	21.53	2.78
45	Sc	114357.80	P	2175.00	1.90
51	V	331.42	P	140.00	42.24
52	Cr	735.56	P	51.68	7.03
55	Mn	163.33	P	45.09	27.61
57	Fe	574.44	P	20.09	3.50
59	Co	27.78	P	10.72	38.59
60	Ni	110.00	P	26.67	24.25
65	Cu	142.22	P	38.63	27.16
66	Zn	305.55	P	30.97	10.14
72	Ge	25987.55	P	289.10	1.11
75	As	99.94	P	46.37	46.40
82	Se	48.44	P	10.36	21.39
95	Mo	51.11	P	5.09	9.96
109	Ag	48.89	P	18.95	38.76
111	Cd	29.75	P	8.70	29.26
115	In	210721.41	P	311.20	0.15
121	Sb	16.67	P	13.33	79.98
137	Ba	22.22	P	6.94	31.23
205	Tl	394.44	P	15.75	3.99
208	Pb	231.11	P	30.25	13.09
209	Bi	348118.91	P	4133.00	1.19

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D0514a.B\004CALI.D\004CALI.D#
Date Acquired: Apr 5 2006 02:29 pm
Operator:
Sample Name: CS1,S2889
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 05 2006 02:25 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	336628.91	P	3992.00	1.19
9	Be	376.67	P	17.64	4.68
23	Na	158564.41	P	1044.00	0.66
26	Mg	9111.11	P	278.50	3.06
27	Al	3000.00	P	104.80	3.49
39	K	136220.00	P	1301.00	0.96
44	Ca	3094.57	P	24.06	0.78
45	Sc	115155.60	P	2008.00	1.74
51	V	1003.11	P	154.10	15.36
52	Cr	1987.78	P	138.00	6.94
55	Mn	1195.56	P	44.76	3.74
57	Fe	2592.22	P	157.50	6.08
59	Co	858.89	P	103.30	12.03
60	Ni	347.78	P	24.57	7.06
65	Cu	353.29	P	15.27	4.32
66	Zn	809.95	P	53.65	6.62
72	Ge	25943.78	P	181.90	0.70
75	As	193.15	P	51.72	26.78
82	Se	53.78	P	11.08	20.60
95	Mo	273.33	P	25.17	9.21
109	Ag	683.33	P	63.60	9.31
111	Cd	163.55	P	33.84	20.69
115	In	211244.91	P	2014.00	0.95
121	Sb	421.11	P	36.72	8.72
137	Ba	232.22	P	11.71	5.04
205	Tl	1848.89	P	180.30	9.75
208	Pb	2813.33	P	67.66	2.41
209	Bi	349342.19	P	11510.00	3.29

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	336628.88	1.19	338233.63	99.5	80 - 120	

45	Sc	115155.55	1.74	114357.77	100.7	80 - 120
72	Ge	25943.78	0.70	25987.56	99.8	80 - 120
115	In	211244.89	0.95	210721.36	100.2	80 - 120
209	Bi	349342.19	3.29	348118.88	100.4	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0514a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D0514a.B\005CALI.D\005CALI.D#
Date Acquired: Apr 5 2006 02:35 pm
Operator:
Sample Name: CS2,S2890
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 05 2006 02:31 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	342717.81	P	4544.00	1.33
9	Be	710.00	P	62.27	8.77
23	Na	260834.41	P	9441.00	3.62
26	Mg	18282.22	P	515.90	2.82
27	Al	4156.67	P	309.00	7.43
39	K	195325.59	P	6817.00	3.49
44	Ca	4927.36	P	209.40	4.25
45	Sc	118608.90	P	3504.00	2.95
51	V	1882.12	P	322.70	17.15
52	Cr	2642.22	P	87.58	3.31
55	Mn	2185.56	P	44.39	2.03
57	Fe	4705.56	P	308.30	6.55
59	Co	1663.33	P	100.20	6.02
60	Ni	540.00	P	52.07	9.64
65	Cu	547.70	P	58.72	10.72
66	Zn	774.35	P	65.01	8.40
72	Ge	26431.78	P	734.90	2.78
75	As	228.83	P	47.88	20.92
82	Se	43.33	P	25.33	58.45
95	Mo	471.11	P	39.49	8.38
109	Ag	1357.78	P	10.72	0.79
111	Cd	297.81	P	41.72	14.01
115	In	215486.09	P	7542.00	3.50
121	Sb	887.78	P	18.36	2.07
137	Ba	428.89	P	28.35	6.61
205	Tl	3418.89	P	218.60	6.39
208	Pb	5764.44	P	258.20	4.48
209	Bi	355268.91	P	11750.00	3.31

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	342717.78	1.33	338233.63	101.3	80 - 120	

45	Sc	118608.89	2.95	114357.77	103.7	80 - 120
72	Ge	26431.78	2.78	25987.56	101.7	80 - 120
115	In	215486.11	3.50	210721.36	102.3	80 - 120
209	Bi	355268.88	3.31	348118.88	102.1	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0514a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D0514a.B\006CALI.D\006CALI.D#
Date Acquired: Apr 5 2006 02:40 pm
Operator:
Sample Name: CS3,S2891
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 05 2006 02:36 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	328493.50	M	5809.00	1.77
9	Be	1503.33	P	8.82	0.59
23	Na	480391.50	M	32680.00	6.80
26	Mg	38205.56	P	1173.00	3.07
27	Al	7808.89	P	67.11	0.86
39	K	314943.31	P	2483.00	0.79
44	Ca	8942.28	P	297.20	3.32
45	Sc	115472.20	P	1287.00	1.11
51	V	3355.90	P	164.30	4.90
52	Cr	4115.56	P	73.43	1.78
55	Mn	4317.78	P	151.20	3.50
57	Fe	8891.11	P	263.10	2.96
59	Co	3552.22	P	111.60	3.14
60	Ni	947.78	P	97.89	10.33
65	Cu	1052.06	P	77.27	7.34
66	Zn	1158.70	P	11.71	1.01
72	Ge	26383.11	P	264.90	1.00
75	As	474.02	P	49.72	10.49
82	Se	82.00	P	12.77	15.57
95	Mo	937.78	P	32.03	3.42
109	Ag	2972.22	P	65.43	2.20
111	Cd	542.30	P	27.00	4.98
115	In	211121.80	P	3340.00	1.58
121	Sb	1814.44	P	44.39	2.45
137	Ba	681.11	P	50.59	7.43
205	Tl	6816.67	P	489.90	7.19
208	Pb	11221.11	P	588.30	5.24
209	Bi	345295.50	P	4571.00	1.32

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	328493.47	1.77	338233.63	97.1	80 - 120	

45	Sc	115472.22	1.11	114357.77	101.0	80 -	120
72	Ge	26383.11	1.00	25987.56	101.5	80 -	120
115	In	211121.78	1.58	210721.36	100.2	80 -	120
209	Bi	345295.53	1.32	348118.88	99.2	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0514a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D0514a.B\007CALI.D\007CALI.D#
Date Acquired: Apr 5 2006 02:46 pm
Operator:
Sample Name: CS4,S2892
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 05 2006 02:42 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	351773.69	M	9113.00	2.59
9 Be	15778.89	P	70.03	0.44
23 Na	4361729.00	A	53420.00	1.22
26 Mg	381324.41	P	14370.00	3.77
27 Al	38981.11	P	1311.00	3.36
39 K	2493493.00	A	45780.00	1.84
44 Ca	73748.97	P	805.50	1.09
45 Sc	118908.90	P	2137.00	1.80
51 V	31090.72	P	791.10	2.54
52 Cr	30125.56	P	483.60	1.61
55 Mn	39366.67	P	756.80	1.92
57 Fe	83218.88	P	978.20	1.18
59 Co	35870.00	P	919.40	2.56
60 Ni	8041.11	P	251.90	3.13
65 Cu	9396.10	P	16.79	0.18
66 Zn	5813.65	P	69.89	1.20
72 Ge	26868.89	P	367.30	1.37
75 As	4012.83	P	13.45	0.34
82 Se	376.67	P	13.86	3.68
95 Mo	8886.67	P	29.63	0.33
109 Ag	27024.44	P	491.10	1.82
111 Cd	5326.15	P	69.90	1.31
115 In	212351.20	P	1230.00	0.58
121 Sb	17587.78	P	543.60	3.09
137 Ba	6653.33	P	38.44	0.58
205 Tl	72180.00	P	3658.00	5.07
208 Pb	111548.90	P	1606.00	1.44
209 Bi	353724.41	P	10050.00	2.84

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	351773.72	2.59	338233.63	104.0	80 - 120	

45	Sc	118908.89	1.80	114357.77	104.0	80 - 120
72	Ge	26868.89	1.37	25987.56	103.4	80 - 120
115	In	212351.16	0.58	210721.36	100.8	80 - 120
209	Bi	353724.44	2.84	348118.88	101.6	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0514a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D0514a.B\008CALI.D\008CALI.D#
Date Acquired: Apr 5 2006 02:51 pm
Operator:
Sample Name: CS5,S2886
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 05 2006 02:47 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	358551.09	P	13080.00	3.65
9	Be	154074.41	P	2836.00	1.84
23	Na	42069160.00	A	886100.00	2.11
26	Mg	3982057.00	A	50210.00	1.26
27	Al	287766.69	P	762.20	0.26
39	K	23238360.00	A	125100.00	0.54
44	Ca	767811.19	A	17120.00	2.23
45	Sc	122106.70	P	2727.00	2.23
51	V	308860.00	P	4456.00	1.44
52	Cr	289043.31	P	3980.00	1.38
55.	Mn	385782.19	P	3656.00	0.95
57	Fe	865640.38	A	7924.00	0.92
59	Co	349698.91	P	6982.00	2.00
60	Ni	76220.00	P	852.90	1.12
65	Cu	90172.51	P	563.20	0.62
66	Zn	50262.31	P	118.30	0.24
72	Ge	27867.55	P	447.50	1.61
75	As	38101.13	P	231.80	0.61
82	Se	3302.89	P	29.67	0.90
95	Mo	86252.22	P	1217.00	1.41
109	Ag	256802.20	P	4131.00	1.61
111	Cd	51758.55	P	690.60	1.33
115	In	214255.00	P	3367.00	1.57
121	Sb	169853.30	P	2553.00	1.50
137	Ba	64500.00	P	1518.00	2.35
205	Tl	764111.13	P	6325.00	0.83
208	Pb	1061725.00	P	15410.00	1.45
209	Bi	341467.81	P	3437.00	1.01

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	358551.09	3.65	338233.63	106.0	80 - 120	

45	Sc	122106.66	2.23	114357.77	106.8	80 -	120
72	Ge	27867.56	1.61	25987.56	107.2	80 -	120
115	In	214255.03	1.57	210721.36	101.7	80 -	120
209	Bi	341467.78	1.01	348118.88	98.1	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0514a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D0514a.B\009CALI.D\009CALI.D#
Date Acquired: Apr 5 2006 02:57 pm
Operator:
Sample Name: CS6,S2887
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 05 2006 02:53 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	350593.50	M	6759.00	1.93
9 Be	301234.41	P	1824.00	0.61
23 Na	81985400.00	A	1438000.00	1.75
26 Mg	7657483.00	A	70510.00	0.92
27 Al	595834.38	A	12250.00	2.06
39 K	44398200.00	A	1269000.00	2.86
44 Ca	1480203.00	A	29490.00	1.99
45 Sc	120130.00	P	533.60	0.44
51 V	638144.69	M	24440.00	3.83
52 Cr	573296.81	M	14020.00	2.45
55 Mn	788106.19	A	12060.00	1.53
57 Fe	1677064.00	A	26000.00	1.55
59 Co	686730.38	M	29190.00	4.25
60 Ni	147946.70	P	2107.00	1.42
65 Cu	175205.09	P	3676.00	2.10
66 Zn	95625.04	P	1773.00	1.85
72 Ge	26860.89	P	338.20	1.26
75 As	74465.01	P	1184.00	1.59
82 Se	6419.56	P	147.90	2.30
95 Mo	168874.41	P	1855.00	1.10
109 Ag	489554.41	P	3144.00	0.64
111 Cd	98341.44	P	466.40	0.47
115 In	204673.80	P	2705.00	1.32
121 Sb	327736.69	P	1495.00	0.46
137 Ba	126567.80	P	404.70	0.32
205 Tl	1555325.00	A	6041.00	0.39
208 Pb	2041452.00	A	11740.00	0.58
209 Bi	327178.91	P	3141.00	0.96

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	350593.50	1.93	338233.63	103.7	80 - 120	

45	Sc	120129.99	0.44	114357.77	105.0	80 -	120
72	Ge	26860.89	1.26	25987.56	103.4	80 -	120
115	In	204673.84	1.32	210721.36	97.1	80 -	120
209	Bi	327178.88	0.96	348118.88	94.0	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0514a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Summary

Calibration : C:\ICPCHEM\1\CALIB\60200111.C
Last Calib: Apr 05, 2006 14:58
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\06d0514a.b\003calb.d\	003calb.d#	Apr 5 2006 02:23 pm
2	...hem\1\data\06d0514a.b\004cali.d\	004cali.d#	Apr 5 2006 02:29 pm
3	...hem\1\data\06d0514a.b\005cali.d\	005cali.d#	Apr 5 2006 02:35 pm
4	...hem\1\data\06d0514a.b\006cali.d\	006cali.d#	Apr 5 2006 02:40 pm
5	...hem\1\data\06d0514a.b\007cali.d\	007cali.d#	Apr 5 2006 02:46 pm
6	...hem\1\data\06d0514a.b\008cali.d\	008cali.d#	Apr 5 2006 02:51 pm
7	...hem\1\data\06d0514a.b\009cali.d\	009cali.d#	Apr 5 2006 02:57 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	Excluded	---	ppb
Be	9	6	Y = 2.149E-1*X +1.309E-3(blank)	---	ppb
Na	23	45	Y = 1.708E+0*X +3.476E+1(blank)	---	ppb
Mg	25	45	Excluded	---	ppb
Mg	26	45	Y = 1.601E-1*X +1.804E-1(blank)	---	ppb
Al	27	45	Y = 1.218E+0*X +1.719E+0(blank)	---	ppb
K	39	45	Y = 9.275E-1*X +3.615E+1(blank)	---	ppb
Ca	43	45	Excluded	---	ppb
Ca	44	45	Y = 3.091E-2*X +3.385E-1(blank)	---	ppb
Sc	45	---	Excluded	---	ppb
V	51	72	Y = 5.857E+0*X +6.379E-1(blank)	---	ppb
Cr	52	72	Y = 5.298E+0*X +1.415E+0(blank)	---	ppb
Cr	53	72	Excluded	---	ppb
Fe	54	72	Excluded	---	ppb
Mn	55	72	Y = 7.251E+0*X +3.146E-1(blank)	---	ppb
Fe	57	72	Y = 1.559E-1*X +1.106E+0(blank)	---	ppb
Co	59	72	Y = 6.368E+0*X +5.332E-2(blank)	---	ppb
Ni	60	72	Y = 1.374E+0*X +2.114E-1(blank)	---	ppb
Cu	63	72	Excluded	---	ppb
Cu	65	72	Y = 1.627E+0*X +2.735E-1(blank)	---	ppb
Zn	66	72	Y = 8.892E-1*X +5.876E-1(blank)	---	ppb
Ge	72	---	Excluded	---	ppb
As	75	72	Y = 6.901E-1*X +1.929E-1(blank)	---	ppb
(As)	77	72	Excluded	---	ppb
Se	82	72	Y = 5.909E-2*X +9.335E-2(blank)	---	ppb
(As)	83	72	Excluded	---	ppb
(Ca)	88	72	Excluded	---	ppb
Y	89	72	Excluded	---	ppb
Mo	95	72	Y = 1.567E+0*X +9.842E-2(blank)	---	ppb
Mo	98	72	Excluded	---	ppb
(Mo)	99	72	Excluded	---	ppb
(Cd)	106	72	Excluded	---	ppb
(Cd)	108	72	Excluded	---	ppb
Ag	109	72	Y = 4.568E+0*X +9.380E-2(blank)	---	ppb
Cd	111	72	Y = 9.178E-1*X +5.731E-2(blank)	---	ppb
Cd	114	72	Excluded	---	ppb
In	115	---	Excluded	---	ppb
(In)	118	---	Excluded	---	ppb
Sb	121	115	Y = 3.996E-1*X +3.952E-3(blank)	---	ppb
Ba	135	115	Excluded	---	ppb
Ba	137	115	Y = 1.538E-1*X +5.271E-3(blank)	---	ppb
Tb	159	---	Excluded	---	ppb
Er	166	115	Excluded	---	ppb
Tl	205	209	Y = 1.174E+0*X +5.665E-2(blank)	---	ppb
(Pb)	206	209	Excluded	---	ppb
(Pb)	207	209	Excluded	---	ppb
Pb	208	209	Y = 1.559E+0*X +3.319E-2(blank)	---	ppb
Bi	209	---	Excluded	---	ppb
Th	232	209	--------	---	ppb
U	238	209	--------	---	ppb

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56137652010 File : d0514010 Time : 05-APR-2006 15:02
Cal : 56137652001 Caldate: 05-APR-2006
Standards: S2895

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	2.1889	1.2096	100.0	97.91	ug/L	-2	10	
Antimony	0.4086	0.4070	100.0	101.9	ug/L	2	10	
Arsenic	0.7783	0.6995	100.0	101.1	ug/L	1	10	
Barium	0.1737	0.1543	100.0	100.3	ug/L	0	10	
Beryllium	0.2190	0.2203	100.0	102.5	ug/L	3	10	
Cadmium	1.0418	0.9321	100.0	101.5	ug/L	2	10	
Calcium	0.0347	0.0318	10000	10270	ug/L	3	10	
Chromium	6.7846	5.3417	100.0	100.6	ug/L	1	10	
Cobalt	6.4969	6.3622	100.0	99.90	ug/L	0	10	
Copper	1.8124	1.6672	100.0	102.3	ug/L	2	10	
Iron	0.1625	0.1584	10000	10160	ug/L	2	10	
Lead	1.5920	1.5842	100.0	101.6	ug/L	2	10	
Magnesium	0.1605	0.1689	10000	10550	ug/L	6	10	
Manganese	7.8758	7.0721	100.0	97.49	ug/L	-3	10	
Molybdenum	1.6662	1.5760	100.0	100.5	ug/L	1	10	
Nickel	1.7928	1.4144	100.0	102.8	ug/L	3	10	
Potassium	1.1869	0.9612	10000	10320	ug/L	3	10	
Selenium	0.1021	0.0614	100.0	102.3	ug/L	2	10	
Silver	5.0390	4.5661	100.0	99.95	ug/L	0	10	
Sodium	1.9083	1.7688	10000	10340	ug/L	3	10	
Thallium	1.0555	1.1463	100.0	97.59	ug/L	-2	10	
Vanadium	6.1517	5.6983	100.0	97.18	ug/L	-3	10	
Zinc	1.5994	0.9184	100.0	102.6	ug/L	3	10	

ISTD (ICALBLK d0514003)	ICALBLK Abund	Abund	%Drift
Lithium	338234	357226	5.62
Scandium	114358	120060	4.99
Germanium	25988	27381	5.36
Indium	210721	208892	-0.87
Bismuth	348119	333593	-4.17

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56137652025 File : d0514025 Time : 05-APR-2006 16:26
Cal : 56137652001 Caldate: 05-APR-2006
Standards: S2897

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.1889	1.2515	150.0	152.7	ug/L	2	10	i+
Antimony	0.4086	0.3906	150.0	146.6	ug/L	-2	10	
Arsenic	0.7783	0.6890	150.0	149.5	ug/L	0	10	i+
Barium	0.1737	0.1462	150.0	142.6	ug/L	-5	10	
Beryllium	0.2190	0.2216	150.0	154.7	ug/L	3	10	
Cadmium	1.0418	0.8965	150.0	146.4	ug/L	-2	10	i+
Calcium	0.0347	0.0307	15000	14890	ug/L	-1	10	i+
Chromium	6.7846	5.1958	150.0	146.9	ug/L	-2	10	i+
Cobalt	6.4969	6.3629	150.0	149.9	ug/L	0	10	i+
Copper	1.8124	1.6037	150.0	147.7	ug/L	-2	10	i+
Iron	0.1625	0.1554	15000	14950	ug/L	0	10	i+
Lead	1.5920	1.5742	150.0	151.5	ug/L	1	10	
Magnesium	0.1605	0.1566	15000	14670	ug/L	-2	10	i+
Manganese	7.8758	7.0537	150.0	145.9	ug/L	-3	10	i+
Molybdenum	1.6662	1.5476	150.0	148.1	ug/L	-1	10	i+
Nickel	1.7928	1.3764	150.0	150.1	ug/L	0	10	i+
Potassium	1.1869	0.9315	15000	15030	ug/L	0	10	i+
Selenium	0.1021	0.0591	150.0	148.4	ug/L	-1	10	i+
Silver	5.0390	4.5891	150.0	150.7	ug/L	0	10	i+
Sodium	1.9083	1.6650	15000	14610	ug/L	-3	10	i+
Thallium	1.0555	1.1956	150.0	152.7	ug/L	2	10	
Vanadium	6.1517	5.7063	150.0	146.0	ug/L	-3	10	i+
Zinc	1.5994	0.8779	150.0	147.4	ug/L	-2	10	i+

ISTD (ICALBLK d0514003)	ICALBLK Abund	Abund	%Drift
Lithium	338234	375382	10.98
Scandium	114358	141370	**23.62** *
Germanium	25988	31753	**22.19** *
Indium	210721	243080	15.36
Bismuth	348119	370548	6.44

+=high bias i=ISTD failure

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56137652041 File : d0514041 Time : 05-APR-2006 17:55
Cal : 56137652001 Caldate: 05-APR-2006
Standards: S2897

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.1889	1.1586	150.0	141.3	ug/L	-6	10	
Antimony	0.4086	0.3813	150.0	143.1	ug/L	-5	10	
Arsenic	0.7783	0.6812	150.0	147.8	ug/L	-1	10	
Barium	0.1737	0.1463	150.0	142.7	ug/L	-5	10	
Beryllium	0.2190	0.2145	150.0	149.7	ug/L	0	10	
Cadmium	1.0418	0.8886	150.0	145.2	ug/L	-3	10	
Calcium	0.0347	0.0302	15000	14640	ug/L	-2	10	
Chromium	6.7846	5.1505	150.0	145.6	ug/L	-3	10	
Cobalt	6.4969	6.2152	150.0	146.4	ug/L	-2	10	
Copper	1.8124	1.6052	150.0	147.8	ug/L	-1	10	
Iron	0.1625	0.1549	15000	14900	ug/L	-1	10	
Lead	1.5920	1.4806	150.0	142.5	ug/L	-5	10	
Magnesium	0.1605	0.1576	15000	14760	ug/L	-2	10	
Manganese	7.8758	6.9108	150.0	142.9	ug/L	-5	10	
Molybdenum	1.6662	1.5293	150.0	146.4	ug/L	-2	10	
Nickel	1.7928	1.3600	150.0	148.3	ug/L	-1	10	
Potassium	1.1869	0.9067	15000	14620	ug/L	-3	10	
Selenium	0.1021	0.0584	150.0	146.6	ug/L	-2	10	
Silver	5.0390	4.4766	150.0	147.0	ug/L	-2	10	
Sodium	1.9083	1.6883	15000	14810	ug/L	-1	10	
Thallium	1.0555	1.1270	150.0	144.0	ug/L	-4	10	
Vanadium	6.1517	5.5742	150.0	142.6	ug/L	-5	10	
Zinc	1.5994	0.8772	150.0	147.3	ug/L	-2	10	

ISTD (ICALBLK d0514003)	ICALBLK Abund	Abund	%Drift
Lithium	338234	359106	6.17
Scandium	114358	121726	6.44
Germanium	25988	26505	1.99
Indium	210721	205689	-2.39
Bismuth	348119	335908	-3.51

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56137652055 File : d0514055 Time : 05-APR-2006 19:13
Cal : 56137652001 Caldate: 05-APR-2006
Standards: S2897

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.1889	1.1346	150.0	138.3	ug/L	-8	10	
Antimony	0.4086	0.3912	150.0	146.9	ug/L	-2	10	
Arsenic	0.7783	0.6819	150.0	147.9	ug/L	-1	10	
Barium	0.1737	0.1470	150.0	143.4	ug/L	-4	10	
Beryllium	0.2190	0.2172	150.0	151.6	ug/L	1	10	
Cadmium	1.0418	0.8926	150.0	145.8	ug/L	-3	10	
Calcium	0.0347	0.0304	15000	14730	ug/L	-2	10	
Chromium	6.7846	5.1779	150.0	146.3	ug/L	-2	10	
Cobalt	6.4969	6.2557	150.0	147.4	ug/L	-2	10	
Copper	1.8124	1.5936	150.0	146.8	ug/L	-2	10	
Iron	0.1625	0.1568	15000	15080	ug/L	1	10	
Lead	1.5920	1.4927	150.0	143.6	ug/L	-4	10	
Magnesium	0.1605	0.1550	15000	14520	ug/L	-3	10	
Manganese	7.8758	7.0353	150.0	145.5	ug/L	-3	10	
Molybdenum	1.6662	1.5356	150.0	147.0	ug/L	-2	10	
Nickel	1.7928	1.3693	150.0	149.3	ug/L	0	10	
Potassium	1.1869	0.9241	15000	14910	ug/L	-1	10	
Selenium	0.1021	0.0572	150.0	143.6	ug/L	-4	10	
Silver	5.0390	4.4647	150.0	146.6	ug/L	-2	10	
Sodium	1.9083	1.6537	15000	14510	ug/L	-3	10	
Thallium	1.0555	1.1422	150.0	145.9	ug/L	-3	10	
Vanadium	6.1517	5.6614	150.0	144.9	ug/L	-3	10	
Zinc	1.5994	0.8853	150.0	148.7	ug/L	-1	10	

ISTD (ICALBLK d0514003)	ICALBLK Abund	Abund	%Drift
Lithium	338234	333430	-1.42
Scandium	114358	119316	4.34
Germanium	25988	25717	-1.04
Indium	210721	195206	-7.36
Bismuth	348119	316653	-9.04

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56137652070 File : d0514070 Time : 05-APR-2006 20:37
Cal : 56137652001 Caldate: 05-APR-2006
Standards: S2897

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.1889	1.0949	150.0	133.4	ug/L	**-11**	10	c- ***
Antimony	0.4086	0.3759	150.0	141.1	ug/L	-6	10	
Arsenic	0.7783	0.6542	150.0	141.9	ug/L	-5	10	
Barium	0.1737	0.1434	150.0	139.8	ug/L	-7	10	
Beryllium	0.2190	0.2145	150.0	149.7	ug/L	0	10	
Cadmium	1.0418	0.8898	150.0	145.3	ug/L	-3	10	
Calcium	0.0347	0.0293	15000	14190	ug/L	-5	10	
Chromium	6.7846	5.0470	150.0	142.6	ug/L	-5	10	
Cobalt	6.4969	6.0267	150.0	142.0	ug/L	-5	10	
Copper	1.8124	1.5347	150.0	141.3	ug/L	-6	10	
Iron	0.1625	0.1496	15000	14390	ug/L	-4	10	
Lead	1.5920	1.4395	150.0	138.5	ug/L	-8	10	
Magnesium	0.1605	0.1518	15000	14220	ug/L	-5	10	
Manganese	7.8758	6.7139	150.0	138.9	ug/L	-7	10	
Molybdenum	1.6662	1.5163	150.0	145.1	ug/L	-3	10	
Nickel	1.7928	1.3166	150.0	143.6	ug/L	-4	10	
Potassium	1.1869	0.8956	15000	14440	ug/L	-4	10	
Selenium	0.1021	0.0567	150.0	142.2	ug/L	-5	10	
Silver	5.0390	4.4664	150.0	146.7	ug/L	-2	10	
Sodium	1.9083	1.5844	15000	13900	ug/L	-7	10	
Thallium	1.0555	1.0527	150.0	134.5	ug/L	-10	10	
Vanadium	6.1517	5.4632	150.0	139.8	ug/L	-7	10	
Zinc	1.5994	0.8491	150.0	142.6	ug/L	-5	10	

ISTD (ICALBLK d0514003)	ICALBLK Abund	Abund	%Drift
Lithium	338234	305579	-9.65
Scandium	114358	99851	-12.69
Germanium	25988	21174	-18.52
Indium	210721	169395	-19.61
Bismuth	348119	284391	-18.31

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56137652084 File : d0514084 Time : 05-APR-2006 21:56
Cal : 56137652001 Caldate: 05-APR-2006
Standards: S2897

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.1889	1.2217	150.0	149.1	ug/L	-1	10	
Antimony	0.4086	0.3715	150.0	139.5	ug/L	-7	10	
Arsenic	0.7783	0.6580	150.0	142.7	ug/L	-5	10	
Barium	0.1737	0.1432	150.0	139.7	ug/L	-7	10	
Beryllium	0.2190	0.2188	150.0	152.7	ug/L	2	10	
Cadmium	1.0418	0.8520	150.0	139.2	ug/L	-7	10	
Calcium	0.0347	0.0294	15000	14240	ug/L	-5	10	
Chromium	6.7846	5.0917	150.0	143.9	ug/L	-4	10	
Cobalt	6.4969	5.9734	150.0	140.7	ug/L	-6	10	
Copper	1.8124	1.5392	150.0	141.8	ug/L	-5	10	
Iron	0.1625	0.1504	15000	14470	ug/L	-4	10	
Lead	1.5920	1.4698	150.0	141.4	ug/L	-6	10	
Magnesium	0.1605	0.1618	15000	15160	ug/L	1	10	
Manganese	7.8758	6.6649	150.0	137.8	ug/L	-8	10	
Molybdenum	1.6662	1.4725	150.0	140.9	ug/L	-6	10	
Nickel	1.7928	1.3138	150.0	143.3	ug/L	-4	10	
Potassium	1.1869	0.9081	15000	14650	ug/L	-2	10	
Selenium	0.1021	0.0560	150.0	140.5	ug/L	-6	10	
Silver	5.0390	4.2270	150.0	138.8	ug/L	-7	10	
Sodium	1.9083	1.7270	15000	15150	ug/L	1	10	
Thallium	1.0555	1.1104	150.0	141.8	ug/L	-5	10	
Vanadium	6.1517	5.5613	150.0	142.3	ug/L	-5	10	
Zinc	1.5994	0.8555	150.0	143.7	ug/L	-4	10	

ISTD (ICALBLK d0514003)	ICALBLK Abund	Abund	%Drift
Lithium	338234	345831	2.25
Scandium	114358	112036	-2.03
Germanium	25988	23830	-8.30
Indium	210721	181654	-13.79
Bismuth	348119	295228	-15.19

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56137652090 File : d0514090 Time : 05-APR-2006 22:29
Cal : 56137652001 Caldate: 05-APR-2006
Standards: S2897

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.1889	1.2068	150.0	147.2	ug/L	-2	10	
Antimony	0.4086	0.3946	150.0	148.1	ug/L	-1	10	
Arsenic	0.7783	0.6751	150.0	146.5	ug/L	-2	10	
Barium	0.1737	0.1502	150.0	146.5	ug/L	-2	10	
Beryllium	0.2190	0.2210	150.0	154.2	ug/L	3	10	
Cadmium	1.0418	0.8892	150.0	145.3	ug/L	-3	10	
Calcium	0.0347	0.0312	15000	15120	ug/L	1	10	
Chromium	6.7846	5.2183	150.0	147.5	ug/L	-2	10	
Cobalt	6.4969	6.2154	150.0	146.4	ug/L	-2	10	
Copper	1.8124	1.5845	150.0	145.9	ug/L	-3	10	
Iron	0.1625	0.1562	15000	15020	ug/L	0	10	
Lead	1.5920	1.5112	150.0	145.4	ug/L	-3	10	
Magnesium	0.1605	0.1668	15000	15630	ug/L	4	10	
Manganese	7.8758	6.9607	150.0	144.0	ug/L	-4	10	
Molybdenum	1.6662	1.5234	150.0	145.8	ug/L	-3	10	
Nickel	1.7928	1.3579	150.0	148.1	ug/L	-1	10	
Potassium	1.1869	0.9446	15000	15240	ug/L	2	10	
Selenium	0.1021	0.0570	150.0	143.1	ug/L	-5	10	
Silver	5.0390	4.3949	150.0	144.3	ug/L	-4	10	
Sodium	1.9083	1.8046	15000	15830	ug/L	6	10	
Thallium	1.0555	1.1478	150.0	146.6	ug/L	-2	10	
Vanadium	6.1517	5.6577	150.0	144.8	ug/L	-3	10	
Zinc	1.5994	0.8690	150.0	145.9	ug/L	-3	10	

ISTD (ICALBLK d0514003)	ICALBLK Abund	Abund	%Drift
Lithium	338234	341753	1.04
Scandium	114358	109006	-4.68
Germanium	25988	23794	-8.44
Indium	210721	177617	-15.71
Bismuth	348119	296452	-14.84

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56137652097 File : d0514097 Time : 05-APR-2006 23:08
Cal : 56137652001 Caldate: 05-APR-2006
Standards: S2897

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.1889	1.1888	150.0	145.0	ug/L	-3	10	
Antimony	0.4086	0.3820	150.0	143.4	ug/L	-4	10	
Arsenic	0.7783	0.6609	150.0	143.4	ug/L	-4	10	
Barium	0.1737	0.1423	150.0	138.8	ug/L	-7	10	
Beryllium	0.2190	0.2194	150.0	153.1	ug/L	2	10	
Cadmium	1.0418	0.8581	150.0	140.2	ug/L	-7	10	
Calcium	0.0347	0.0296	15000	14340	ug/L	-4	10	
Chromium	6.7846	5.1412	150.0	145.3	ug/L	-3	10	
Cobalt	6.4969	6.1092	150.0	143.9	ug/L	-4	10	
Copper	1.8124	1.5672	150.0	144.3	ug/L	-4	10	
Iron	0.1625	0.1556	15000	14970	ug/L	0	10	
Lead	1.5920	1.4649	150.0	140.9	ug/L	-6	10	
Magnesium	0.1605	0.1580	15000	14800	ug/L	-1	10	
Manganese	7.8758	6.8814	150.0	142.3	ug/L	-5	10	
Molybdenum	1.6662	1.4980	150.0	143.4	ug/L	-4	10	
Nickel	1.7928	1.3187	150.0	143.8	ug/L	-4	10	
Potassium	1.1869	0.9090	15000	14660	ug/L	-2	10	
Selenium	0.1021	0.0565	150.0	141.8	ug/L	-5	10	
Silver	5.0390	4.3260	150.0	142.0	ug/L	-5	10	
Sodium	1.9083	1.7186	15000	15080	ug/L	1	10	
Thallium	1.0555	1.0959	150.0	140.0	ug/L	-7	10	
Vanadium	6.1517	5.5937	150.0	143.1	ug/L	-5	10	
Zinc	1.5994	0.8677	150.0	145.7	ug/L	-3	10	

ISTD (ICALBLK d0514003)	ICALBLK Abund	Abund	%Drift
Lithium	338234	316789	-6.34
Scandium	114358	105770	-7.51
Germanium	25988	22540	-13.27
Indium	210721	168340	-20.11
Bismuth	348119	276518	-20.57

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56137652012 File : d0514012 Time : 05-APR-2006 15:14
Cal : 56137652001 Caldate: 05-APR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.05220]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01337]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2764]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK d0514003)	ICALBLK Abund	Abund	%Drift
Lithium	338234	369238	9.17
Scandium	114358	120542	5.41
Germanium	25988	27145	4.45
Indium	210721	212957	1.06
Bismuth	348119	350660	0.73

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56137652027 File : d0514027 Time : 05-APR-2006 16:37
Cal : 56137652001 Caldate: 05-APR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.04166]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.007679]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	[14.23]	50.00	9.919	ug/L	!ib
Thallium	[0.2630]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK d0514003)	ICALBLK Abund	Abund	%Drift
Lithium	338234	364717	7.83
Scandium	114358	128019	11.95
Germanium	25988	29030	11.71
Indium	210721	229622	8.97
Bismuth	348119	370460	6.42

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56137652043 File : d0514043 Time : 05-APR-2006 18:06
Cal : 56137652001 Caldate: 05-APR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.04250]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01480]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2769]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK d0514003)	ICALBLK Abund	Abund	%Drift
Lithium	338234	352784	4.30
Scandium	114358	122738	7.33
Germanium	25988	27200	4.67
Indium	210721	217586	3.26
Bismuth	348119	357607	2.73

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56137652057 File : d0514057 Time : 05-APR-2006 19:25
Cal : 56137652001 Caldate: 05-APR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.01080]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.007310]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2124]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK d0514003)	ICALBLK Abund	Abund	%Drift
Lithium	338234	337238	-0.29
Scandium	114358	110154	-3.68
Germanium	25988	24161	-7.03
Indium	210721	195590	-7.18
Bismuth	348119	328719	-5.57

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56137652072 File : d0514072 Time : 05-APR-2006 20:49
Cal : 56137652001 Caldate: 05-APR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.04756]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2031]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK d0514003)	ICALBLK Abund	Abund	%Drift
Lithium	338234	320685	-5.19
Scandium	114358	102778	-10.13
Germanium	25988	21937	-15.59
Indium	210721	176793	-16.10
Bismuth	348119	309448	-11.11

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56137652086 File : d0514086 Time : 05-APR-2006 22:07
Cal : 56137652001 Caldate: 05-APR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.009300]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01593]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.1003]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2517]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK d0514003)	ICALBLK Abund	Abund	%Drift
Lithium	338234	359005	6.14
Scandium	114358	114356	0.00
Germanium	25988	24206	-6.86
Indium	210721	189790	-9.93
Bismuth	348119	324656	-6.74

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56137652092 File : d0514092 Time : 05-APR-2006 22:40
Cal : 56137652001 Caldate: 05-APR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.04385]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01659]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.08172]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	[12.86]	50.00	9.919	ug/L	!ib
Thallium	[0.2502]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK d0514003)	ICALBLK Abund	Abund	%Drift
Lithium	338234	338365	0.04
Scandium	114358	104033	-9.03
Germanium	25988	22670	-12.77
Indium	210721	173353	-17.73
Bismuth	348119	299404	-13.99

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56137652099 File : d0514099 Time : 05-APR-2006 23:19
Cal : 56137652001 Caldate: 05-APR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.04271]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	[0.02581]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.01746]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.01660]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01846]	0.2500	0.005283	ug/L	!ib
Magnesium	[5.169]	50.00	3.054	ug/L	!ib
Manganese	[0.07834]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2521]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK d0514003)	ICALBLK Abund	Abund	%Drift
Lithium	338234	317532	-6.12
Scandium	114358	104518	-8.60
Germanium	25988	22693	-12.68
Indium	210721	174491	-17.19
Bismuth	348119	295444	-15.13

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CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56137652013 File : d0514013 Time : 05-APR-2006 15:19
Cal : 56137652001 Caldate: 05-APR-2006
Standards: S2893, 05WS0207

Analyte	Quant	RL	Units	Flags
Antimony	2.147	0.2500	ug/L	
Arsenic	[0.1366]	0.5000	ug/L	
Barium	0.8550	0.2500	ug/L	
Beryllium	[0.02530]	0.2500	ug/L	
Cadmium	[0.07174]	0.2500	ug/L	
Chromium	1.072	0.5000	ug/L	
Cobalt	2.680	0.2500	ug/L	
Copper	1.140	0.5000	ug/L	
Lead	1.232	0.2500	ug/L	
Manganese	0.9026	0.2500	ug/L	
Nickel	1.070	0.2500	ug/L	
Selenium	[0]	0.5000	ug/L	
Silver	[0.1297]	0.2500	ug/L	
Thallium	[0.2492]	0.5000	ug/L	
Vanadium	[0.08379]	1.000	ug/L	
Zinc	1.725	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	94920	ug/L	95
Calcium	300000	301000	ug/L	100
Iron	250000	227800	ug/L	91
Magnesium	100000	95950	ug/L	96
Molybdenum	2000	2172	ug/L	109
Potassium	100000	100600	ug/L	101
Sodium	250000	236200	ug/L	94

ISTD (ICALBLK d0514003)	ICALBLK Abund	Abund	%Drift
Lithium	338234	319771	-5.46
Scandium	114358	127206	11.24
Germanium	25988	29841	14.83
Indium	210721	211200	0.23
Bismuth	348119	300249	-13.75

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56137652014 File : d0514014 Time : 05-APR-2006 15:25
Cal : 56137652001 Caldate: 05-APR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	91050	ug/L	-9		
Arsenic	100.0	104.7	ug/L	5	20	
Cadmium	100.0	100.2	ug/L	0	20	
Calcium	300000	304200	ug/L	1		
Chromium	200.0	219.0	ug/L	10	20	
Cobalt	200.0	210.4	ug/L	5	20	
Copper	200.0	197.2	ug/L	-1	20	
Iron	250000	229600	ug/L	-8		
Magnesium	100000	92260	ug/L	-8		
Manganese	200.0	226.5	ug/L	13	20	
Molybdenum	2000	2258	ug/L	13		
Nickel	200.0	203.5	ug/L	2	20	
Potassium	100000	100800	ug/L	1		
Selenium	100.0	92.32	ug/L	-8	20	
Silver	50.00	50.16	ug/L	0	20	
Sodium	250000	226600	ug/L	-9		
Vanadium	200.0	229.9	ug/L	15	20	
Zinc	100.0	93.18	ug/L	-7	20	

ISTD (ICALBLK d0514003)	ICALBLK Abund	Abund	%Drift
Scandium	114358	100548	-12.08
Germanium	25988	23255	-10.51

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56137652029 File : d0514029 Time : 05-APR-2006 16:49
Cal : 56137652001 Caldate: 05-APR-2006
Standards: S2893, 05WS0207

Analyte	Quant	RL	Units	Flags
Antimony	2.206	0.2500	ug/L	
Arsenic	[0.08732]	0.5000	ug/L	
Barium	1.045	0.2500	ug/L	
Beryllium	[0.03983]	0.2500	ug/L	
Cadmium	[0.1470]	0.2500	ug/L	
Chromium	1.105	0.5000	ug/L	
Cobalt	2.807	0.2500	ug/L	
Copper	1.109	0.5000	ug/L	
Lead	1.296	0.2500	ug/L	
Manganese	0.9884	0.2500	ug/L	
Nickel	1.118	0.2500	ug/L	
Selenium	[0]	0.5000	ug/L	
Silver	[0.1747]	0.2500	ug/L	
Thallium	0.7142	0.5000	ug/L	
Vanadium	[0.1218]	1.000	ug/L	
Zinc	1.575	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	93580	ug/L	94
Calcium	300000	304000	ug/L	101
Iron	250000	227400	ug/L	91
Magnesium	100000	94550	ug/L	95
Molybdenum	2000	2205	ug/L	110
Potassium	100000	102200	ug/L	102
Sodium	250000	233400	ug/L	93

ISTD (ICALBLK d0514003)	ICALBLK Abund	Abund	%Drift
Lithium	338234	281942	-16.64
Scandium	114358	103700	-9.32
Germanium	25988	24287	-6.54
Indium	210721	178879	-15.11
Bismuth	348119	260711	-25.11

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56137652030 File : d0514030 Time : 05-APR-2006 16:54
Cal : 56137652001 Caldate: 05-APR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	89330	ug/L	-11		
Arsenic	100.0	104.7	ug/L	5	20	
Cadmium	100.0	101.7	ug/L	2	20	
Calcium	300000	299300	ug/L	0		
Chromium	200.0	215.0	ug/L	8	20	
Cobalt	200.0	207.0	ug/L	4	20	
Copper	200.0	193.8	ug/L	-3	20	
Iron	250000	226900	ug/L	-9		
Magnesium	100000	90850	ug/L	-9		
Manganese	200.0	215.8	ug/L	8	20	
Molybdenum	2000	2249	ug/L	12		
Nickel	200.0	197.0	ug/L	-2	20	
Potassium	100000	99990	ug/L	0		
Selenium	100.0	94.22	ug/L	-6	20	
Silver	50.00	50.16	ug/L	0	20	
Sodium	250000	227600	ug/L	-9		
Vanadium	200.0	219.3	ug/L	10	20	
Zinc	100.0	91.27	ug/L	-9	20	

ISTD (ICALBLK d0514003)	ICALBLK Abund	Abund	%Drift
Scandium	114358	90008	-21.29
Germanium	25988	20870	-19.69

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56137652065 File : d0514065 Time : 05-APR-2006 20:10
Cal : 56137652001 Caldate: 05-APR-2006
Standards: S2893, 05WS0207

Analyte	Quant	RL	Units	Flags
Antimony	2.000	0.2500	ug/L	
Arsenic	[0.05204]	0.5000	ug/L	
Barium	0.9905	0.2500	ug/L	
Beryllium	[0.02231]	0.2500	ug/L	
Cadmium	[0.08117]	0.2500	ug/L	
Chromium	1.093	0.5000	ug/L	
Cobalt	2.549	0.2500	ug/L	
Copper	1.025	0.5000	ug/L	
Lead	1.247	0.2500	ug/L	
Manganese	0.9021	0.2500	ug/L	
Nickel	1.000	0.2500	ug/L	
Selenium	[0]	0.5000	ug/L	
Silver	[0.1223]	0.2500	ug/L	
Thallium	[0.06151]	0.5000	ug/L	
Vanadium	[0.1548]	1.000	ug/L	
Zinc	1.516	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	88740	ug/L	89
Calcium	300000	291000	ug/L	97
Iron	250000	219800	ug/L	88
Magnesium	100000	89630	ug/L	90
Molybdenum	2000	2133	ug/L	107
Potassium	100000	96810	ug/L	97
Sodium	250000	227600	ug/L	91

ISTD (ICALBLK d0514003)	ICALBLK Abund	Abund	%Drift
Lithium	338234	244861	-27.61
Scandium	114358	85809	-24.96
Germanium	25988	19407	-25.32
Indium	210721	150161	-28.74
Bismuth	348119	218157	-37.33

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56137652066 File : d0514066 Time : 05-APR-2006 20:15
Cal : 56137652001 Caldate: 05-APR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	89280	ug/L	-11		
Arsenic	100.0	99.83	ug/L	0	20	
Cadmium	100.0	95.15	ug/L	-5	20	
Calcium	300000	285400	ug/L	-5		
Chromium	200.0	209.8	ug/L	5	20	
Cobalt	200.0	199.5	ug/L	0	20	
Copper	200.0	186.0	ug/L	-7	20	
Iron	250000	219600	ug/L	-12		
Magnesium	100000	90220	ug/L	-10		
Manganese	200.0	209.2	ug/L	5	20	
Molybdenum	2000	2143	ug/L	7		
Nickel	200.0	192.2	ug/L	-4	20	
Potassium	100000	97290	ug/L	-3		
Selenium	100.0	90.03	ug/L	-10	20	
Silver	50.00	47.85	ug/L	-4	20	
Sodium	250000	228000	ug/L	-9		
Vanadium	200.0	211.7	ug/L	6	20	
Zinc	100.0	88.94	ug/L	-11	20	

ISTD (ICALBLK d0514003)	ICALBLK Abund	Abund	%Drift
Scandium	114358	82776	-27.62
Germanium	25988	18459	-28.97

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56137652093 File : d0514093 Time : 05-APR-2006 22:46
Cal : 56137652001 Caldate: 05-APR-2006
Standards: S2893, 05WS0207

Analyte	Quant	RL	Units	Flags
Antimony	2.005	0.2500	ug/L	
Arsenic	[0]	0.5000	ug/L	
Barium	0.9475	0.2500	ug/L	
Beryllium	[0.02143]	0.2500	ug/L	
Cadmium	[0.04576]	0.2500	ug/L	
Chromium	1.056	0.5000	ug/L	
Cobalt	2.507	0.2500	ug/L	
Copper	1.127	0.5000	ug/L	
Lead	1.279	0.2500	ug/L	
Manganese	0.9341	0.2500	ug/L	
Nickel	1.072	0.2500	ug/L	
Selenium	[0]	0.5000	ug/L	
Silver	[0.1382]	0.2500	ug/L	
Thallium	[0.2448]	0.5000	ug/L	
Vanadium	[0.1241]	1.000	ug/L	
Zinc	1.392	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	97050	ug/L	97
Calcium	300000	300700	ug/L	100
Iron	250000	218400	ug/L	87
Magnesium	100000	97220	ug/L	97
Molybdenum	2000	2162	ug/L	108
Potassium	100000	103100	ug/L	103
Sodium	250000	242500	ug/L	97

ISTD (ICALBLK d0514003)	ICALBLK Abund	Abund	%Drift
Lithium	338234	259350	-23.32
Scandium	114358	94532	-17.34
Germanium	25988	22299	-14.19
Indium	210721	161542	-23.34
Bismuth	348119	231186	-33.59

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56137652094 File : d0514094 Time : 05-APR-2006 22:51
Cal : 56137652001 Caldate: 05-APR-2006
Standards: S2894, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	98260	ug/L	-2		
Arsenic	100.0	103.0	ug/L	3	20	
Cadmium	100.0	98.04	ug/L	-2	20	
Calcium	300000	300200	ug/L	0		
Chromium	200.0	220.5	ug/L	10	20	
Cobalt	200.0	207.1	ug/L	4	20	
Copper	200.0	193.4	ug/L	-3	20	
Iron	250000	226800	ug/L	-9		
Magnesium	100000	100800	ug/L	1		
Manganese	200.0	222.6	ug/L	11	20	
Molybdenum	2000	2215	ug/L	11		
Nickel	200.0	197.8	ug/L	-1	20	
Potassium	100000	104200	ug/L	4		
Selenium	100.0	90.97	ug/L	-9	20	
Silver	50.00	48.74	ug/L	-3	20	
Sodium	250000	248900	ug/L	0		
Vanadium	200.0	221.6	ug/L	11	20	
Zinc	100.0	92.04	ug/L	-8	20	

ISTD (ICALBLK d0514003)	ICALBLK Abund	Abund	%Drift
Scandium	114358	78679	-31.20
Germanium	25988	18121	-30.27

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56137652 Instrument: MET05 Agilent ICP-MS Begun: 05-APR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	d0514001	TUN				05-APR-2006 14:12	1.0	1.0				1	
003	d0514003	ICALBLK	std-blk			05-APR-2006 14:23	1.0	1.0				2	
004	d0514004	ICAL	CS1			05-APR-2006 14:29	1.0	1.0				3	
005	d0514005	ICAL	CS2			05-APR-2006 14:35	1.0	1.0				4	
006	d0514006	ICAL	CS3			05-APR-2006 14:40	1.0	1.0				5	
007	d0514007	ICAL	CS4			05-APR-2006 14:46	1.0	1.0				6	
008	d0514008	ICAL	CS5			05-APR-2006 14:51	1.0	1.0				7	
009	d0514009	ICAL	CS6			05-APR-2006 14:57	1.0	1.0				8	
010	d0514010	ICV				05-APR-2006 15:02	1.0	1.0			1	9	
012	d0514012	ICB				05-APR-2006 15:14	1.0	1.0			1	2	
013	d0514013	ICSA				05-APR-2006 15:19	1.0	1.0			1	10 2	7:CA=301000
014	d0514014	ICSAB				05-APR-2006 15:25	1.0	1.0			1	11 2	12:CA=304200
017	d0514017	BLANK	QC334392	112027	Filtra	05-APR-2006 15:41	1.0	1.0			1	2	
018	d0514018	BS	QC334393	112027	Filtra	05-APR-2006 15:47	1.0	1.0			1	2	
019	d0514019	BSD	QC334394	112027	Filtra	05-APR-2006 15:53	1.0	1.0			1	2	
020	d0514020	MSS	185980-001	112027	Filtra	05-APR-2006 15:58	5.0	1.0	4		1	2	4:NA=673000
021	d0514021	SER	QC334397	112027	Filtra	05-APR-2006 16:04	25.0	1.0			1	2	1:NA=145640
022	d0514022	MS	QC334395	112027	Filtra	05-APR-2006 16:09	5.0	1.0		1	1	2	4:NA=666400
023	d0514023	MSD	QC334396	112027	Filtra	05-APR-2006 16:15	5.0	1.0		3	1	2	3:MG=92660.0
025	d0514025	CCV				05-APR-2006 16:26	1.0	1.0			1	12	
027	d0514027	CCB				05-APR-2006 16:37	1.0	1.0			1	2	
028	d0514028	PDS	QC334398	112027	Filtra	05-APR-2006 16:43	5.0	1.0		1	1	13	3:MG=93760.0
029	d0514029	ICSA				05-APR-2006 16:49	1.0	1.0			1	10 2	7:CA=304000
030	d0514030	ICSAB				05-APR-2006 16:54	1.0	1.0			1	11 2	11:CA=299300
033	d0514033	BLANK	QC333690	111849	Filtra	05-APR-2006 17:11	1.0	1.0			1	2	
034	d0514034	BS	QC333691	111849	Filtra	05-APR-2006 17:16	1.0	1.0			1	2	
035	d0514035	BSD	QC333692	111849	Filtra	05-APR-2006 17:22	1.0	1.0			1	2	
036	d0514036	MSS	185679-011	111849	Filtra	05-APR-2006 17:27	1.0	1.0	4		1	2	3:CA=45020.0
037	d0514037	SER	QC333695	111849	Filtra	05-APR-2006 17:33	5.0	1.0		1	1	2	
038	d0514038	MS	QC333693	111849	Filtra	05-APR-2006 17:39	1.0	1.0	1		1	2	4:CA=52180.0
039	d0514039	MSD	QC333694	111849	Filtra	05-APR-2006 17:44	1.0	1.0	1		1	2	4:CA=52910.0

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [illegible] Date: 4/5/6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56137652 Instrument: MET05 Agilent ICP-MS Begun: 05-APR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
041	d0514041	CCV				05-APR-2006 17:55	1.0	1.0			1	12	
043	d0514043	CCB				05-APR-2006 18:06	1.0	1.0			1	2	
044	d0514044	PDS	QC333696	111849	Filtra	05-APR-2006 18:12	1.0	1.0	1		1	13	4:CA=53930.0
045	d0514045	SAMPLE	185679-001	111849	Filtra	05-APR-2006 18:18	1.0	1.0	2		1	2	2:NA=39910.0
046	d0514046	SAMPLE	185679-002	111849	Filtra	05-APR-2006 18:23	1.0	1.0	3		1	2	3:MG=49000.0
047	d0514047	SAMPLE	185679-003	111849	Filtra	05-APR-2006 18:29	1.0	1.0	3		1	2	3:NA=67250.0
048	d0514048	SAMPLE	185679-004	111849	Filtra	05-APR-2006 18:34	1.0	1.0	3		1	2	3:CA=29650.0
049	d0514049	SAMPLE	185679-005	111849	Filtra	05-APR-2006 18:40	1.0	1.0	3		1	2	3:CA=28500.0
050	d0514050	SAMPLE	185679-006	111849	Filtra	05-APR-2006 18:46	1.0	1.0	3		1	2	3:NA=77010.0
051	d0514051	SAMPLE	185679-007	111849	Filtra	05-APR-2006 18:51	1.0	1.0	3		1	2	3:NA=73790.0
052	d0514052	SAMPLE	185679-008	111849	Filtra	05-APR-2006 18:57	1.0	1.0	3		1	2	3:MG=124500
053	d0514053	SAMPLE	185679-010	111849	Filtra	05-APR-2006 19:02	1.0	1.0	1		1	2	1:ZN=403.000
055	d0514055	CCV				05-APR-2006 19:13	1.0	1.0			1	12	
057	d0514057	CCB				05-APR-2006 19:25	1.0	1.0			1	2	
058	d0514058	SAMPLE	185679-012	111849	Filtra	05-APR-2006 19:30	1.0	1.0	4		1	2	3:MG=46050.0
059	d0514059	SAMPLE	185679-013	111849	Filtra	05-APR-2006 19:36	1.0	1.0	4		1	2	3:NA=42580.0
060	d0514060	SAMPLE	185679-014	111849	Filtra	05-APR-2006 19:41	1.0	1.0	3		1	2	2:MG=72600.0
061	d0514061	SAMPLE	185679-015	111849	Filtra	05-APR-2006 19:47	1.0	1.0	4		1	2	3:MG=44650.0
062	d0514062	SAMPLE	185679-016	111849	Filtra	05-APR-2006 19:53	1.0	1.0	5		1	2	4:MG=115700
063	d0514063	SAMPLE	185679-017	111849	Filtra	05-APR-2006 19:58	1.0	1.0	3		1	2	2:MG=46710.0
064	d0514064	SAMPLE	185679-019	111849	Filtra	05-APR-2006 20:04	1.0	1.0	2		1	2	1:NA=38940.0
065	d0514065	ICSA				05-APR-2006 20:10	1.0	1.0			1	10 2	7:CA=291000
066	d0514066	ICSAB				05-APR-2006 20:15	1.0	1.0			1	11 2	10:CA=285400
068	d0514068	BLANK	QC333697	111850	Filtra	05-APR-2006 20:26	1.0	1.0	1		1	2	
070	d0514070	CCV				05-APR-2006 20:37	1.0	1.0	1		1	12	
072	d0514072	CCB				05-APR-2006 20:49	1.0	1.0			1	2	
073	d0514073	BS	QC333698	111850	Filtra	05-APR-2006 20:54	1.0	1.0	1		1	2	
074	d0514074	BSD	QC333699	111850	Filtra	05-APR-2006 21:00	1.0	1.0	1		1	2	
075	d0514075	MSS	185679-009	111850	Filtra	05-APR-2006 21:05	1.0	1.0	5		1	2	4:CA=102100
076	d0514076	SER	QC333702	111850	Filtra	05-APR-2006 21:11	5.0	1.0			1	2	2:CA=21340.0
077	d0514077	MS	QC333700	111850	Filtra	05-APR-2006 21:17	1.0	1.0	1		1	2	5:CA=109700

Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: [signature] Date: 4/17/6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56137652 Instrument: MET05 Agilent ICP-MS Begun: 05-APR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
078	d0514078	MSD	QC333701	111850	Filtra	05-APR-2006 21:22	1.0	1.0	1		1	2	5:CA=110100
079	d0514079	PDS	QC333703	111850	Filtra	05-APR-2006 21:28	1.0	1.0	1		1	13	5:CA=111500
080	d0514080	SAMPLE	185679-019	111850	Water	05-APR-2006 21:33	1.0	1.0	5		1	2	4:NA=144300
081	d0514081	SAMPLE	185679-020	111850	Water	05-APR-2006 21:39	1.0	1.0	5		1	2	4:NA=133500
082	d0514082	SAMPLE	185679-021	111850	Water	05-APR-2006 21:44	1.0	1.0	6		1	2	7:NA=40680.0
084	d0514084	CCV				05-APR-2006 21:56	1.0	1.0			1	12	
086	d0514086	CCB				05-APR-2006 22:07	1.0	1.0			1	2	
087	d0514087	SAMPLE	185679-020	111850	Filtra	05-APR-2006 22:12	1.0	1.0	4		1	2	4:NA=140600
088	d0514088	SAMPLE	185679-021	111850	Filtra	05-APR-2006 22:18	1.0	1.0	5		1	2	5:NA=131700
090	d0514090	CCV				05-APR-2006 22:29	1.0	1.0			1	12	
092	d0514092	CCB				05-APR-2006 22:40	1.0	1.0			1	2	
093	d0514093	ICSA				05-APR-2006 22:46	1.0	1.0			1	10 2	7:CA=300700
094	d0514094	ICSAB				05-APR-2006 22:51	1.0	1.0			1	11 2	11:CA=300200
097	d0514097	CCV				05-APR-2006 23:08	1.0	1.0			1	12	
099	d0514099	CCB				05-APR-2006 23:19	1.0	1.0			1	2	

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Stds used: 1=S2898 2=05WS0207 3=S2889 4=S2890 5=S2891 6=S2892 7=S2886 8=S2887 9=S2895 10=S2893 11=S2894 12=S2897 13=S2309

Analyst: MeiWu Date: 4/5/6

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56138973001
Units : ug/L

Date : 06-APR-2006 12:25
X Axis : R

Reviewer: ---
Inj Vol : 1 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	d0612004	56138973004	CS1	06-APR-2006 12:31	S3096
L2	d0612005	56138973005	CS2	06-APR-2006 12:36	S3097
L3	d0612006	56138973006	CS3	06-APR-2006 12:42	S3098
L4	d0612007	56138973007	CS4	06-APR-2006 12:48	S3099
L5	d0612008	56138973008	CS5	06-APR-2006 12:53	S3093
L6	d0612009	56138973009	CS6	06-APR-2006 12:59	S3094

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		3.5502	3.3661	1.6324	1.2177	1.1901	BLNK	-4.4461	0.85882		2.1913	0.999	0.995	
Antimony	0.3647	0.3613	0.3679	0.3621	0.3551	0.3631	BLNK	-0.0119	2.76647		0.3624	1.000	0.995	
Arsenic		0.9374	0.8026	0.7366	0.6829	0.6908	BLNK	-0.0961	1.45149		0.7701	1.000	0.995	
Barium	0.1815	0.1881	0.1673	0.1648	0.1565	0.1585	BLNK	-0.0340	6.32481		0.1694	1.000	0.995	
Beryllium	0.2168	0.2198	0.2350	0.2480	0.2332	0.2410	BLNK	-0.0033	4.17608		0.2323	1.000	0.995	
Cadmium	0.8551	0.7829	0.7063	0.6793	0.6067	0.6288	BLNK	-0.1030	1.60231		0.7099	1.000	0.995	
Calcium		0.0432	0.0381	0.0310	0.0304	0.0301	BLNK	-24.525	33.2320		0.0346	1.000	0.995	
Chromium		15.096	10.164	5.9537	5.3093	5.5731	BLNK	-0.6394	0.18184		8.4193	0.999	0.995	385
Cobalt	7.0101	6.8490	6.7796	6.5990	6.4786	6.5183	BLNK	-0.0113	0.15361		6.7058	1.000	0.995	
Copper		2.0929	1.9197	1.6582	1.4891	1.5221	BLNK	-0.3644	0.66122		1.7364	1.000	0.995	
Iron		0.2202	0.1912	0.1584	0.1523	0.1540	BLNK	-28.673	6.51794		0.1752	1.000	0.995	
Lead	1.6472	1.5855	1.5210	1.5099	1.6051	1.5465	BLNK	-0.0243	0.64189		1.5692	1.000	0.995	
Magnesium		0.1456	0.1507	0.1626	0.1445	0.1408	BLNK	-3.6782	7.06535		0.1488	1.000	0.995	
Manganese	10.940	9.7121	8.9048	7.6428	7.4424	7.5354	BLNK	-0.0908	0.13311		8.6963	1.000	0.995	
Molybdenum		1.3904	1.2205	1.2268	1.1691	1.2037	BLNK	-0.1295	0.83622		1.2421	1.000	0.995	
Nickel	2.6319	2.0295	1.7787	1.5071	1.3515	1.3600	BLNK	-0.1133	0.73655		1.7765	1.000	0.995	
Potassium		2.5229	1.8438	1.1991	1.0607	1.0321	BLNK	-61.560	0.96692		1.5317	1.000	0.995	
Selenium		0.1216	0.0973	0.0613	0.0530	0.0529	BLNK	-0.5653	18.9633		0.0772	1.000	0.995	
Silver	3.4783	3.5288	3.3170	3.3168	3.0716	3.1233	BLNK	-0.0094	0.32121		3.3060	1.000	0.995	
Sodium		2.0629	1.9206	1.6863	1.5895	1.5590	BLNK	-15.845	0.63947		1.7637	1.000	0.995	
Thallium		1.0451	1.0325	1.0523	1.0913	1.1680	BLNK	-0.0562	0.86801		1.0778	0.999	0.995	
Vanadium		9.3195	7.9093	6.4619	6.4252	6.6835	BLNK	-0.2563	0.15103		7.3599	1.000	0.995	
Zinc		2.7281	2.1358	0.9435	0.7609	0.7543	BLNK	-0.7351	1.32879		1.4645	1.000	0.995	

Instrument amount = a0 + response * a1 + response^2 * a2; BLNK=Y=aX+[blank]

56138973001

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56138973 Instrument: MET05 Agilent ICP-MS Begun: 06-APR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	d0612001	TUN				06-APR-2006 12:13	1.0					1	
003	d0612003	ICALBLK	std-blk			06-APR-2006 12:25	1.0					2	
004	d0612004	ICAL	CS1			06-APR-2006 12:31	1.0					3	
005	d0612005	ICAL	CS2			06-APR-2006 12:36	1.0					4	
006	d0612006	ICAL	CS3			06-APR-2006 12:42	1.0					5	
007	d0612007	ICAL	CS4			06-APR-2006 12:48	1.0					6	
008	d0612008	ICAL	CS5			06-APR-2006 12:53	1.0					7	
009	d0612009	ICAL	CS6			06-APR-2006 12:59	1.0					8	
010	d0612010	ICV				06-APR-2006 13:04	1.0					9	22:MG=10630.0
012	d0612012	ICB				06-APR-2006 13:15	1.0					2	
013	d0612013	ICSA				06-APR-2006 13:21	1.0					10 2	7:CA=365400
015	d0612015	ICSAB				06-APR-2006 13:36	1.0					11 2	15:CA=317500

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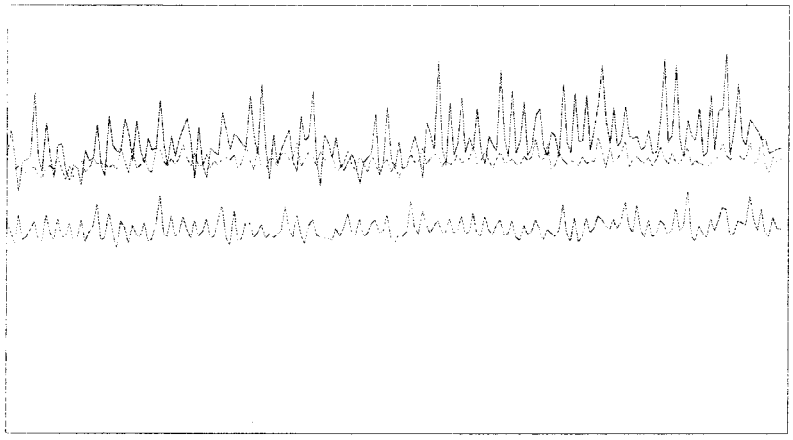
Stds used: 1=S3105 2=05WS0207 3=S3096 4=S3097 5=S3098 6=S3099 7=S3093 8=S3094 9=S3102 10=S3100 11=S3101

Analyst: _____ Date: _____

Tune Report

Tune File : ATUNE.U



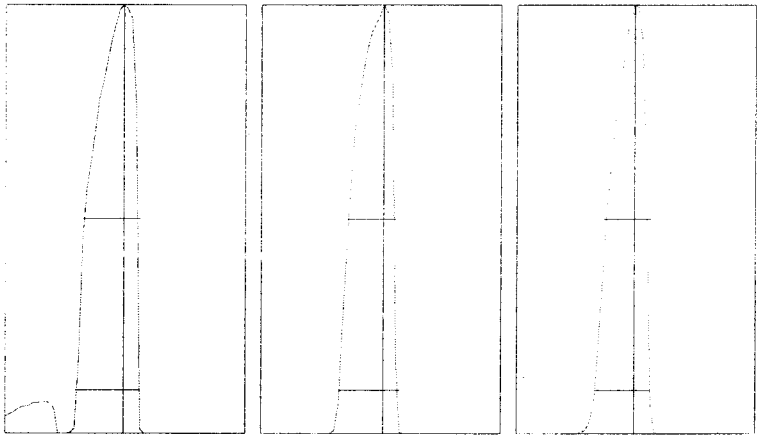
m/z:	7	89	205
Range:	50,000	50,000	20,000
Count:	33,342	23,923	12,847
Mean:	34312.2	24046.7	12747.9
RSD%:	8.87	5.12	2.95
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.45%
Doubly Charged:	70/140	1.12%

Background:

m/z:	7	89	205
Cps:	1.9	2.4	6.2



m/z:	7	89	205
Height:	35,692	24,224	12,636
Axis:	7.00	89.05	205.00
W-50%:	0.70	0.60	0.60
W-10%:	0.800	0.7500	0.700

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1250 W	Extract 1:	-123 V	AMU Gain:	131
RF Matching:	1.62 V	Extract 2:	-110 V	AMU Offset:	125
Smpl Depth:	6.5 mm	Einzel 1,3:	-106 V	Axis Gain:	0.9996
Torch-H:	0 mm	Einzel 2:	8 V	Axis Offset:	-0.06
Torch-V:	0.4 mm	Omega Bias:	-36 V	QP Bias:	1.5 V
Carrier Gas:	1.1 L/min	Omega (+):	3 V		
Makeup Gas:	0 L/min	Omega (-):	6 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	4.3 V	Discriminator:	8.7 mV
PeriPump1:	0.1 rps	Plate Bias:	-23 V	Analog HV:	1790 V
PeriPump2:	--- rps			Pulse HV:	1270 V
S/C Temp:	2 degC				

Generated : Apr 06, 2006 11:27:53
Printed : Apr 06, 2006 11:27:59

P/A Factor Tuning Report

Acquired:Apr 6 2006 11:51 am

Mass[amu]	Element	P/A Factor
6	Li	0.067564
9	Be	0.076194
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.092930
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.098095
45	Sc	Sensitivity too low
51	V	0.097042
52	Cr	0.099162
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.101469
57	Fe	0.104688
59	Co	0.104940
60	Ni	Sensitivity too low
63	Cu	0.107280
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	Sensitivity too low
95	Mo	Sensitivity too low
98	Mo	0.101700
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.110796
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	Sensitivity too low
118	(In)	0.114193
121	Sb	0.108749
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.111311
166	Er	Sensitivity too low

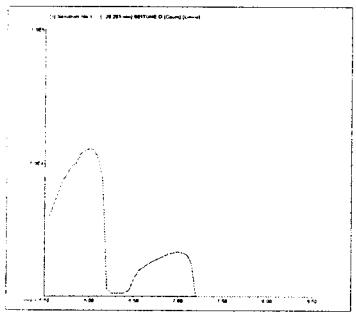
```
    205        Tl    0.120572
    206      (Pb)  Sensitivity too low
    207      (Pb)  Sensitivity too low
    208        Pb    0.119495
    209        Bi  Sensitivity too low

===Detector Parameters===
  Discriminator: 8.7 mV
      Analog HV: 1790 V
       Pulse HV: 1270 V
```

6020 QC Tune Report

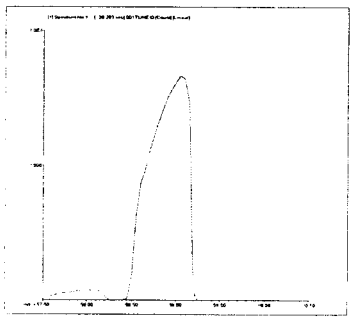
Data File: C:\ICPCHEM\1\DATA\06D0612a.B\001TUNE.D
Date Acquired: Apr 6 2006 12:13 pm
Acq. Method: TN6020.M
Operator:
Sample Name: TUN,S3105
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

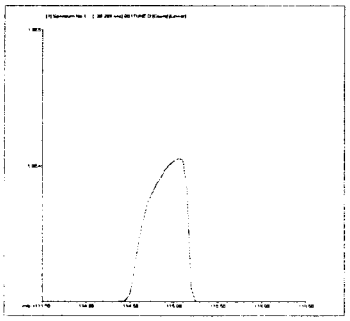
Element	Actual	Required	Flag
7 Li	2.57	5.00	
59 Co	0.89	5.00	
115 In	1.63	5.00	
205 Tl	1.44	5.00	



7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



115 In

Mass Calib.

Actual: 115.05

Required: 114.90 - 115.10

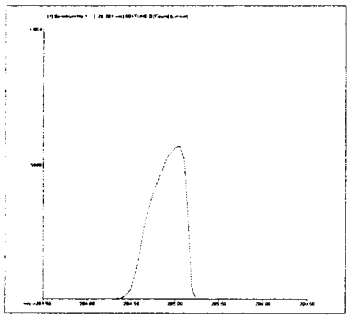
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



205 Tl

Mass Calib.

Actual: 205.05

Required: 204.90 - 205.10

Flag:

Peak Width

Actual: 0.55

Required: 0.90

Flag:

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06D0612a.B\002BLNK.D\002BLNK.D#
Date Acquired: Apr 6 2006 12:20 pm
Acq. Method: 60200111.M
Operator:
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update: Apr 05 2006 02:58 pm
Sample Type: 6-Blank
Dilution Factor: 1.00

QC Elements

Element	Corr. Conc.		RSD(%)	Raw Conc.	High Limit	Flag
9 Be	-0.003119	ppb	44.44	-0.003119	1.00	
23 Na	-8.137	ppb	21.77	-8.137	1.00	
26 Mg	0.6435	ppb	102.13	0.6435	1.00	
27 Al	1.117	ppb	41.32	1.117	1.00	
39 K	26.65	ppb	6.11	26.65	1.00	
44 Ca	9.943	ppb	14.51	9.943	1.00	
51 V	0.1233	ppb	7.40	0.1233	1.00	
52 Cr	0.4235	ppb	4.87	0.4235	1.00	
55 Mn	0.04387	ppb	27.06	0.04387	1.00	
57 Fe	16	ppb	8.55	16	1.00	
59 Co	0.003111	ppb	65.57	0.003111	1.00	
60 Ni	-0.03737	ppb	34.44	-0.03737	1.00	
65 Cu	0.25	ppb	6.35	0.25	1.00	
66 Zn	-0.07908	ppb	54.29	-0.07908	1.00	
75 As	-0.02751	ppb	973.46	-0.02751	1.00	
82 Se	-1.013	ppb	39.79	-1.013	1.00	
95 Mo	0.0306	ppb	64.28	0.0306	1.00	
109 Ag	-0.01198	ppb	22.04	-0.01198	1.00	
111 Cd	-0.002886	ppb	255.23	-0.002886	1.00	
121 Sb	0.0005066	ppb	569.09	0.0005066	1.00	
137 Ba	0.004307	ppb	285.58	0.004307	1.00	
205 Tl	0.09022	ppb	36.28	0.09022	1.00	
208 Pb	0.004374	ppb	38.62	0.004374	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	515278.88	4.86	---	#VALUE!	80 - 120	
45 Sc	295091.09	1.58	---	#VALUE!	80 - 120	
72 Ge	56933.11	0.61	---	#VALUE!	80 - 120	
115 In	375128.75	1.37	---	#VALUE!	80 - 120	
209 Bi	233414.44	3.57	---	#VALUE!	80 - 120	

ISTD Ref File : ---

4 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Fail
ISTD: Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06D0612A.B\003CAL
Date Acquired: Apr 6 2006 12:25 pm
Operator:
Sample Name: std-blk
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 06 2006 01:00 pm
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	546793.19	A	18920.00	3.46
9	Be	8.89	P	7.70	86.60
23	Na	145525.59	P	14900.00	10.24
26	Mg	3057.78	P	329.90	10.79
27	Al	30395.56	P	2209.00	7.27
39	K	373588.91	P	8474.00	2.27
44	Ca	4332.98	P	288.10	6.65
45	Sc	293385.50	P	5381.00	1.83
51	V	1927.76	P	295.60	15.33
52	Cr	3991.11	P	106.60	2.67
55	Mn	774.44	P	15.03	1.94
57	Fe	4991.11	P	322.30	6.46
59	Co	83.33	P	17.32	20.78
60	Ni	174.44	P	30.06	17.23
65	Cu	625.54	P	53.47	8.55
66	Zn	627.76	P	27.15	4.32
72	Ge	56750.67	P	538.40	0.95
75	As	75.15	P	20.78	27.65
82	Se	33.78	P	12.58	37.24
95	Mo	175.56	P	28.74	16.37
109	Ag	33.33	P	6.67	20.00
111	Cd	72.94	P	4.45	6.09
115	In	371564.91	P	4428.00	1.19
121	Sb	32.22	P	16.44	51.02
137	Ba	40.00	P	20.28	50.70
205	Tl	303.33	P	45.09	14.87
208	Pb	177.78	P	30.97	17.42
209	Bi	234038.91	P	2801.00	1.20

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06D0612A.B\004CALI.D\004CALI.D#
Date Acquired:	Apr 6 2006 12:31 pm
Operator:	
Sample Name:	CS1,S3096
Misc Info:	
Vial Number:	1102
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Apr 06 2006 01:00 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	508197.41	A	6866.00	1.35
9 Be	551.11	P	35.01	6.35
23 Na	295650.00	P	8129.00	2.75
26 Mg	20888.89	P	776.80	3.72
27 Al	8176.67	P	396.60	4.85
39 K	553321.31	M	45030.00	8.14
44 Ca	8650.24	P	421.90	4.88
45 Sc	295515.50	P	13200.00	4.47
51 V	3872.34	P	147.30	3.80
52 Cr	7004.44	P	226.30	3.23
55 Mn	3285.55	P	1.93	0.06
57 Fe	8488.89	P	43.50	0.51
59 Co	2106.67	P	125.30	5.95
60 Ni	791.11	P	63.36	8.01
65 Cu	1053.24	P	89.63	8.51
66 Zn	1759.90	P	113.70	6.46
72 Ge	60079.11	P	1194.00	1.99
75 As	620.31	P	101.90	16.43
82 Se	74.00	P	17.29	23.37
95 Mo	443.33	P	46.31	10.45
109 Ag	1045.56	P	72.44	6.93
111 Cd	256.86	P	24.46	9.52
115 In	375218.59	P	10950.00	2.92
121 Sb	684.44	P	65.77	9.61
137 Ba	340.00	P	20.00	5.88
205 Tl	1426.67	P	28.48	2.00
208 Pb	1928.89	P	38.35	1.99
209 Bi	234737.80	P	11750.00	5.01

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	508197.44	1.35	546793.13	92.9	80 - 120	

45	Sc	295515.53	4.47	293385.53	100.7	80 - 120
72	Ge	60079.11	1.99	56750.67	105.9	80 - 120
115	In	375218.56	2.92	371564.91	101.0	80 - 120
209	Bi	234737.78	5.01	234038.88	100.3	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0612A.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D0612A.B\005CALI.D\005CALI.D#
Date Acquired: Apr 6 2006 12:36 pm
Operator:
Sample Name: CS2,S3097
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 06 2006 01:00 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	570237.88	A	7167.00	1.26
9 Be	1253.33	P	25.17	2.01
23 Na	649589.69	A	27120.00	4.17
26 Mg	45840.00	P	1182.00	2.58
27 Al	11182.22	P	215.90	1.93
39 K	794660.13	A	8999.00	1.13
44 Ca	13619.30	P	252.40	1.85
45 Sc	314970.00	P	2274.00	0.72
51 V	5704.15	P	187.80	3.29
52 Cr	9240.00	P	146.80	1.59
55 Mn	5944.44	P	98.00	1.65
57 Fe	13481.11	P	523.20	3.88
59 Co	4192.22	P	130.20	3.11
60 Ni	1242.22	P	30.79	2.48
65 Cu	1280.91	P	92.51	7.22
66 Zn	1669.77	P	92.07	5.51
72 Ge	61207.78	P	94.50	0.15
75 As	573.92	P	144.00	25.09
82 Se	74.44	P	5.55	7.46
95 Mo	851.11	P	59.29	6.97
109 Ag	2160.00	P	122.90	5.69
111 Cd	479.18	P	10.78	2.25
115 In	388751.59	P	6242.00	1.61
121 Sb	1404.44	P	37.91	2.70
137 Ba	731.11	P	18.36	2.51
205 Tl	2474.44	P	70.42	2.85
208 Pb	3753.33	P	203.40	5.42
209 Bi	236757.80	P	3239.00	1.37

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	570237.94	1.26	546793.13	104.3	80 - 120	

45	Sc	314970.00	0.72	293385.53	107.4	80 -	120
72	Ge	61207.78	0.15	56750.67	107.9	80 -	120
115	In	388751.63	1.61	371564.91	104.6	80 -	120
209	Bi	236757.78	1.37	234038.88	101.2	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0612A.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D0612A.B\006CALI.D\006CALI.D#
Date Acquired: Apr 6 2006 12:42 pm
Operator:
Sample Name: CS3,S3098
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 06 2006 01:00 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	580044.50	A	30610.00	5.28
9 Be	2728.89	P	209.30	7.67
23 Na	1202761.00	A	40110.00	3.33
26 Mg	94365.55	P	3707.00	3.93
27 Al	21078.89	P	485.50	2.30
39 K	1154653.00	A	14490.00	1.25
44 Ca	23842.07	P	110.70	0.46
45 Sc	313123.31	P	1164.00	0.37
51 V	9742.34	P	216.00	2.22
52 Cr	12518.89	P	117.70	0.94
55 Mn	10967.78	P	159.40	1.45
57 Fe	23545.55	P	218.70	0.93
59 Co	8351.11	P	274.00	3.28
60 Ni	2191.11	P	90.21	4.12
65 Cu	2364.04	P	69.31	2.93
66 Zn	2630.64	P	35.96	1.37
72 Ge	61583.56	P	376.30	0.61
75 As	988.26	P	92.67	9.38
82 Se	119.78	P	3.29	2.75
95 Mo	1503.33	P	33.83	2.25
109 Ag	4085.55	P	56.99	1.39
111 Cd	869.70	P	38.21	4.39
115 In	383366.41	P	2306.00	0.60
121 Sb	2821.11	P	47.41	1.68
137 Ba	1282.22	P	60.03	4.68
205 Tl	4918.89	P	227.10	4.62
208 Pb	7247.78	P	195.50	2.70
209 Bi	238232.20	P	4866.00	2.04

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	580044.50	5.28	546793.13	106.1	80 - 120	

45	Sc	313123.31	0.37	293385.53	106.7	80 - 120
72	Ge	61583.56	0.61	56750.67	108.5	80 - 120
115	In	383366.41	0.60	371564.91	103.2	80 - 120
209	Bi	238232.20	2.04	234038.88	101.8	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0612A.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D0612A.B\007CALI.D\007CALI.D#
Date Acquired: Apr 6 2006 12:48 pm
Operator:
Sample Name: CS4,S3099
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 06 2006 01:00 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	518525.81	A	20140.00	3.88
9 Be	25713.33	P	711.00	2.77
23 Na	9670375.00	A	133100.00	1.38
26 Mg	932423.38	A	20970.00	2.25
27 Al	93624.44	P	2167.00	2.31
39 K	6877518.00	A	103600.00	1.51
44 Ca	177790.70	P	3146.00	1.77
45 Sc	286774.41	P	2993.00	1.04
51 V	76508.45	P	337.00	0.44
52 Cr	70502.22	P	1510.00	2.14
55 Mn	90501.11	P	1284.00	1.42
57 Fe	187585.59	P	3656.00	1.95
59 Co	78132.22	P	238.70	0.31
60 Ni	17850.00	P	498.50	2.79
65 Cu	19635.95	P	503.90	2.57
66 Zn	11170.89	P	69.30	0.62
72 Ge	59212.00	P	1116.00	1.88
75 As	8719.75	P	168.70	1.93
82 Se	725.56	P	12.55	1.73
95 Mo	14527.78	P	306.30	2.11
109 Ag	39267.78	P	637.60	1.62
111 Cd	8044.31	P	174.50	2.17
115 In	369435.19	P	5794.00	1.57
121 Sb	26758.89	P	709.60	2.65
137 Ba	12176.67	P	86.86	0.71
205 Tl	50646.66	P	2745.00	5.42
208 Pb	72596.66	P	1361.00	1.87
209 Bi	240578.91	P	10380.00	4.31

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	518525.75	3.88	546793.13	94.8	80 - 120	

45	Sc	286774.44	1.04	293385.53	97.7	80 - 120
72	Ge	59212.00	1.88	56750.67	104.3	80 - 120
115	In	369435.16	1.57	371564.91	99.4	80 - 120
209	Bi	240578.88	4.31	234038.88	102.8	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0612A.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D0612A.B\008CALI.D\008CALI.D#
Date Acquired: Apr 6 2006 12:53 pm
Operator:
Sample Name: CS5,S3093
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 06 2006 01:00 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	525027.50	A	3661.00	0.70
9 Be	244917.80	P	12330.00	5.03
23 Na	91794528.00	A	2465000.00	2.69
26 Mg	8346864.00	A	57600.00	0.69
27 Al	703028.19	A	12110.00	1.72
39 K	61239240.00	A	1265000.00	2.07
44 Ca	1753650.00	A	13090.00	0.75
45 Sc	288748.91	P	3574.00	1.24
51 V	776986.69	A	7120.00	0.92
52 Cr	642224.81	M	19850.00	3.09
55 Mn	899926.69	A	6571.00	0.73
57 Fe	1842000.00	A	16930.00	0.92
59 Co	783369.19	A	3956.00	0.51
60 Ni	163438.91	P	1465.00	0.90
65 Cu	180072.09	P	695.30	0.39
66 Zn	92008.26	P	476.50	0.52
72 Ge	60477.11	P	1258.00	2.08
75 As	82586.08	P	414.10	0.50
82 Se	6410.22	P	76.19	1.19
95 Mo	141372.20	P	1310.00	0.93
109 Ag	371492.19	P	6647.00	1.79
111 Cd	73387.20	P	2372.00	3.23
115 In	368198.00	P	6726.00	1.83
121 Sb	261504.41	P	5288.00	2.02
137 Ba	115236.70	P	2331.00	2.02
205 Tl	511692.19	P	10070.00	1.97
208 Pb	752598.88	P	16730.00	2.22
209 Bi	234462.20	P	4891.00	2.09

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	525027.50	0.70	546793.13	96.0	80 - 120	

45	Sc	288748.88	1.24	293385.53	98.4	80 - 120
72	Ge	60477.11	2.08	56750.67	106.6	80 - 120
115	In	368198.03	1.83	371564.91	99.1	80 - 120
209	Bi	234462.20	2.09	234038.88	100.2	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0612A.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D0612A.B\009CALI.D\009CALI.D#
Date Acquired: Apr 6 2006 12:59 pm
Operator:
Sample Name: CS6,S3094
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 06 2006 01:00 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	499986.69	A	13040.00	2.61
9 Be	482224.09	A	25550.00	5.30
23 Na	174914590.00	A	2548000.00	1.46
26 Mg	15794660.00	A	312100.00	1.98
27 Al	1335280.00	A	14620.00	1.09
39 K	115799000.00	A	1079000.00	0.93
44 Ca	3374644.00	A	34040.00	1.01
45 Sc	280523.31	P	4818.00	1.72
51 V	1507088.00	A	30810.00	2.04
52 Cr	1256738.00	A	20490.00	1.63
55 Mn	1699487.00	A	21630.00	1.27
57 Fe	3473636.00	A	25480.00	0.73
59 Co	1470062.00	A	9810.00	0.67
60 Ni	306695.50	P	3052.00	1.00
65 Cu	343262.69	P	1199.00	0.35
66 Zn	170105.50	P	1235.00	0.73
72 Ge	56382.89	P	505.60	0.90
75 As	155807.09	P	1653.00	1.06
82 Se	11924.89	P	99.96	0.84
95 Mo	271442.19	P	2175.00	0.80
109 Ag	704333.31	P	5551.00	0.79
111 Cd	141794.91	P	1842.00	1.30
115 In	348404.81	P	3428.00	0.98
121 Sb	506020.00	P	5793.00	1.14
137 Ba	220937.80	P	1791.00	0.81
205 Tl	1007299.00	M	19520.00	1.94
208 Pb	1333960.00	P	22660.00	1.70
209 Bi	215753.30	P	7470.00	3.46

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	499986.69	2.61	546793.13	91.4	80 - 120	

45	Sc	280523.31	1.72	293385.53	95.6	80 - 120
72	Ge	56382.89	0.90	56750.67	99.4	80 - 120
115	In	348404.81	0.98	371564.91	93.8	80 - 120
209	Bi	215753.33	3.46	234038.88	92.2	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D0612A.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Summary

Calibration : C:\ICPCHEM\1\CALIB\60200111.C
Last Calib: Apr 06, 2006 13:00
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\06d0612a.b\003calb.d\	003calb.d#	Apr 6 2006 12:25 pm
2	...hem\1\data\06d0612a.b\004cali.d\	004cali.d#	Apr 6 2006 12:31 pm
3	...hem\1\data\06d0612a.b\005cali.d\	005cali.d#	Apr 6 2006 12:36 pm
4	...hem\1\data\06d0612a.b\006cali.d\	006cali.d#	Apr 6 2006 12:42 pm
5	...hem\1\data\06d0612a.b\007cali.d\	007cali.d#	Apr 6 2006 12:48 pm
6	...hem\1\data\06d0612a.b\008cali.d\	008cali.d#	Apr 6 2006 12:53 pm
7	...hem\1\data\06d0612a.b\009cali.d\	009cali.d#	Apr 6 2006 12:59 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	Excluded	---	ppb
Be	9	6	Y = 2.395E-1*X +7.999E-4(blank)	---	ppb
Na	23	45	Y = 1.564E+0*X +2.478E+1(blank)	---	ppb
Mg	25	45	Excluded	---	ppb
Mg	26	45	Y = 1.415E-1*X +5.206E-1(blank)	---	ppb
Al	27	45	Y = 1.164E+0*X +5.177E+0(blank)	---	ppb
K	39	45	Y = 1.034E+0*X +6.367E+1(blank)	---	ppb
Ca	43	45	Excluded	---	ppb
Ca	44	45	Y = 3.009E-2*X +7.380E-1(blank)	---	ppb
Sc	45	---	Excluded	---	ppb
V	51	72	Y = 6.621E+0*X +1.697E+0(blank)	---	ppb
Cr	52	72	Y = 5.499E+0*X +3.516E+0(blank)	---	ppb
Cr	53	72	Excluded	---	ppb
Fe	54	72	Excluded	---	ppb
Mn	55	72	Y = 7.513E+0*X +6.824E-1(blank)	---	ppb
Fe	57	72	Y = 1.534E-1*X +4.399E+0(blank)	---	ppb
Co	59	72	Y = 6.510E+0*X +7.348E-2(blank)	---	ppb
Ni	60	72	Y = 1.358E+0*X +1.538E-1(blank)	---	ppb
Cu	63	72	Excluded	---	ppb
Cu	65	72	Y = 1.512E+0*X +5.512E-1(blank)	---	ppb
Zn	66	72	Y = 7.526E-1*X +5.532E-1(blank)	---	ppb
Ge	72	---	Excluded	---	ppb
As	75	72	Y = 6.889E-1*X +6.620E-2(blank)	---	ppb
(As)	77	72	Excluded	---	ppb
Se	82	72	Y = 5.273E-2*X +2.981E-2(blank)	---	ppb
(As)	83	72	Excluded	---	ppb
(Ca)	88	72	Excluded	---	ppb
Y	89	72	Excluded	---	ppb
Mo	95	72	Y = 1.196E+0*X +1.548E-1(blank)	---	ppb
Mo	98	72	Excluded	---	ppb
(Mo)	99	72	Excluded	---	ppb
(Cd)	106	72	Excluded	---	ppb
(Cd)	108	72	Excluded	---	ppb
Ag	109	72	Y = 3.113E+0*X +2.940E-2(blank)	---	ppb
Cd	111	72	Y = 6.241E-1*X +6.426E-2(blank)	---	ppb
Cd	114	72	Excluded	---	ppb
In	115	---	Excluded	---	ppb
(In)	118	---	Excluded	---	ppb
Sb	121	115	Y = 3.615E-1*X +4.319E-3(blank)	---	ppb
Ba	135	115	Excluded	---	ppb
Ba	137	115	Y = 1.581E-1*X +5.371E-3(blank)	---	ppb
Tb	159	---	Excluded	---	ppb
Er	166	115	Excluded	---	ppb
Tl	205	209	Y = 1.152E+0*X +6.475E-2(blank)	---	ppb
(Pb)	206	209	Excluded	---	ppb
(Pb)	207	209	Excluded	---	ppb
Pb	208	209	Y = 1.558E+0*X +3.793E-2(blank)	---	ppb
Bi	209	---	Excluded	---	ppb
Th	232	209	--------	---	ppb
U	238	209	--------	---	ppb

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56138973010 File : d0612010 Time : 06-APR-2006 13:04
Cal : 56138973001 Caldate: 06-APR-2006
Standards: S3102

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	2.1913	1.2507	100.0	103.0	ug/L	3	10	
Antimony	0.3624	0.3630	100.0	100.4	ug/L	0	10	
Arsenic	0.7701	0.7028	100.0	101.9	ug/L	2	10	
Barium	0.1694	0.1591	100.0	100.6	ug/L	1	10	
Beryllium	0.2323	0.2481	100.0	103.6	ug/L	4	10	
Cadmium	0.7099	0.6434	100.0	103.0	ug/L	3	10	
Calcium	0.0346	0.0311	10000	10320	ug/L	3	10	
Chromium	8.4193	5.5702	100.0	100.6	ug/L	1	10	
Cobalt	6.7058	6.7868	100.0	104.2	ug/L	4	10	
Copper	1.7364	1.5577	100.0	102.6	ug/L	3	10	
Iron	0.1752	0.1622	10000	10540	ug/L	5	10	
Lead	1.5692	1.6786	100.0	107.7	ug/L	8	10	
Magnesium	0.1488	0.1504	10000	10630	ug/L	6	10	
Manganese	8.6963	7.8927	100.0	105.0	ug/L	5	10	
Molybdenum	1.2421	1.2058	100.0	100.7	ug/L	1	10	
Nickel	1.7765	1.4136	100.0	104.0	ug/L	4	10	
Potassium	1.5317	1.0790	10000	10370	ug/L	4	10	
Selenium	0.0772	0.0550	100.0	103.7	ug/L	4	10	
Silver	3.3060	3.1234	100.0	100.3	ug/L	0	10	
Sodium	1.7637	1.6617	10000	10610	ug/L	6	10	
Thallium	1.0778	1.1453	100.0	99.35	ug/L	-1	10	
Vanadium	7.3599	6.7570	100.0	101.8	ug/L	2	10	
Zinc	1.4645	0.7871	100.0	103.9	ug/L	4	10	

ISTD (ICALBLK d0612003)	ICALBLK Abund	Abund	%Drift
Lithium	546793	547110	0.06
Scandium	293386	287761	-1.92
Germanium	56751	57942	2.10
Indium	371565	361246	-2.78
Bismuth	234039	226551	-3.20

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56138973026 File : d0612026 Time : 06-APR-2006 14:47
Cal : 56138973001 Caldate: 06-APR-2006
Standards: S3104, 05WS0207

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.1913	1.5178	150.0	191.1	ug/L	**27**	10	c+ ***
Antimony	0.3624	0.3885	150.0	161.2	ug/L	7	10	
Arsenic	0.7701	0.7264	150.0	158.1	ug/L	5	10	
Barium	0.1694	0.1688	150.0	160.2	ug/L	7	10	
Beryllium	0.2323	0.2631	150.0	164.8	ug/L	10	10	
Cadmium	0.7099	0.6130	150.0	147.2	ug/L	-2	10	
Calcium	0.0346	0.0332	15000	16540	ug/L	10	10	
Chromium	8.4193	5.9191	150.0	160.8	ug/L	7	10	
Cobalt	6.7058	7.1438	150.0	164.6	ug/L	10	10	
Copper	1.7364	1.6205	150.0	160.4	ug/L	7	10	
Iron	0.1752	0.1657	15000	16180	ug/L	8	10	
Lead	1.5692	1.6816	150.0	161.9	ug/L	8	10	
Magnesium	0.1488	0.1790	15000	18970	ug/L	**26**	10	c+ ***
Manganese	8.6963	7.9800	150.0	159.2	ug/L	6	10	
Molybdenum	1.2421	1.2141	150.0	152.2	ug/L	1	10	
Nickel	1.7765	1.4824	150.0	163.7	ug/L	9	10	
Potassium	1.5317	1.1950	15000	17270	ug/L	**15**	10	c+ ***
Selenium	0.0772	0.0553	150.0	156.8	ug/L	5	10	
Silver	3.3060	3.1104	150.0	149.9	ug/L	0	10	
Sodium	1.7637	1.9880	15000	19050	ug/L	**27**	10	c+ ***
Thallium	1.0778	1.2187	150.0	158.6	ug/L	6	10	
Vanadium	7.3599	7.1583	150.0	161.9	ug/L	8	10	
Zinc	1.4645	0.8005	150.0	158.8	ug/L	6	10	

ISTD (ICALBLK d0612003)	ICALBLK Abund	Abund	%Drift
Lithium	546793	593147	8.48
Scandium	293386	259146	-11.67
Germanium	56751	53845	-5.12
Indium	371565	300625	-19.09
Bismuth	234039	185661	-20.67

-=high bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56138973012 File : d0612012 Time : 06-APR-2006 13:15
Cal : 56138973001 Caldate: 06-APR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.05510]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1879]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.008153]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.3333]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2843]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK d0612003)	ICALBLK Abund	Abund	%Drift
Lithium	546793	586040	7.18
Scandium	293386	285046	-2.84
Germanium	56751	57356	1.07
Indium	371565	350753	-5.60
Bismuth	234039	232666	-0.59

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56138973028 File : d0612028 Time : 06-APR-2006 14:58
Cal : 56138973001 Caldate: 06-APR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	50.00	2.123	ug/L	
Antimony	[0.04084]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.2252]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.05153]	0.5000	0.03860	ug/L	!ib
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.009505]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1642]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	1.000	0.08283	ug/L	
Zinc	ND	1.000	0.09577	ug/L	

ISTD (ICALBLK d0612003)	ICALBLK Abund	Abund	%Drift
Lithium	546793	597056	9.19
Scandium	293386	268009	-8.65
Germanium	56751	54729	-3.56
Indium	371565	317084	-14.66
Bismuth	234039	203164	-13.19

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56138973013 File : d0612013 Time : 06-APR-2006 13:21
Cal : 56138973001 Caldate: 06-APR-2006
Standards: S3100, 05WS0207

Analyte	Quant	RL	Units	Flags
Antimony	2.539	0.2500	ug/L	
Arsenic	0.9416	0.5000	ug/L	
Barium	1.093	0.2500	ug/L	
Beryllium	[0.005078]	0.2500	ug/L	
Cadmium	[0.1300]	0.2500	ug/L	
Chromium	1.896	0.5000	ug/L	
Cobalt	3.232	0.2500	ug/L	
Copper	2.040	0.5000	ug/L	
Lead	1.612	0.2500	ug/L	
Manganese	1.314	0.2500	ug/L	
Nickel	1.751	0.2500	ug/L	
Selenium	0.8143	0.5000	ug/L	
Silver	[0.1685]	0.2500	ug/L	
Thallium	[0.2226]	0.5000	ug/L	
Vanadium	[0.2135]	1.000	ug/L	
Zinc	3.889	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	108900	ug/L	109
Calcium	300000	365400	ug/L	122
Iron	250000	283900	ug/L	114
Magnesium	100000	111900	ug/L	112
Molybdenum	2000	2447	ug/L	122
Potassium	100000	117500	ug/L	118
Sodium	250000	268500	ug/L	107

ISTD (ICALBLK d0612003)	ICALBLK Abund	Abund	%Drift
Lithium	546793	466509	-14.68
Scandium	293386	259170	-11.66
Germanium	56751	51333	-9.55
Indium	371565	305523	-17.77
Bismuth	234039	170140	-27.30

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56138973015 File : d0612015 Time : 06-APR-2006 13:36
Cal : 56138973001 Caldate: 06-APR-2006
Standards: S3101, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	84730	ug/L	-15		
Arsenic	100.0	103.7	ug/L	4	20	
Cadmium	100.0	101.5	ug/L	2	20	
Calcium	300000	317500	ug/L	6		
Chromium	200.0	228.0	ug/L	14	20	
Cobalt	200.0	211.9	ug/L	6	20	
Copper	200.0	190.7	ug/L	-5	20	
Iron	250000	240700	ug/L	-4		
Magnesium	100000	87490	ug/L	-13		
Manganese	200.0	224.2	ug/L	12	20	
Molybdenum	2000	2203	ug/L	10		
Nickel	200.0	197.6	ug/L	-1	20	
Potassium	100000	100200	ug/L	0		
Selenium	100.0	94.38	ug/L	-6	20	
Silver	50.00	50.57	ug/L	1	20	
Sodium	250000	213000	ug/L	-15		
Vanadium	200.0	232.8	ug/L	16	20	
Zinc	100.0	90.31	ug/L	-10	20	

ISTD (ICALBLK d0612003)	ICALBLK Abund	Abund	%Drift
Scandium	293386	235704	-19.66
Germanium	56751	46385	-18.27

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56138973029 File : d0612029 Time : 06-APR-2006 15:04
Cal : 56138973001 Caldate: 06-APR-2006
Standards: S3100, 05WS0207

Analyte	Quant	RL	Units	Flags
Antimony	2.674	0.2500	ug/L	
Arsenic	1.395	0.5000	ug/L	
Barium	1.272	0.2500	ug/L	
Beryllium	[0.01128]	0.2500	ug/L	
Cadmium	[0.08492]	0.2500	ug/L	
Chromium	2.063	0.5000	ug/L	
Cobalt	3.351	0.2500	ug/L	
Copper	2.091	0.5000	ug/L	
Lead	1.671	0.2500	ug/L	
Manganese	1.383	0.2500	ug/L	
Nickel	2.016	0.2500	ug/L	
Selenium	1.472	0.5000	ug/L	
Silver	[0.1599]	0.2500	ug/L	
Thallium	[0.1672]	0.5000	ug/L	
Vanadium	[0.3105]	1.000	ug/L	
Zinc	4.024	1.000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	116800	ug/L	117
Calcium	300000	391100	ug/L	130
Iron	250000	285900	ug/L	114
Magnesium	100000	122700	ug/L	123
Molybdenum	2000	2481	ug/L	124
Potassium	100000	124700	ug/L	125
Sodium	250000	294300	ug/L	118

ISTD (ICALBLK d0612003)	ICALBLK Abund	Abund	%Drift
Lithium	546793	443326	-18.92
Scandium	293386	224407	-23.51
Germanium	56751	45220	-20.32
Indium	371565	254486	-31.51
Bismuth	234039	141738	-39.44

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56138973031 File : d0612031 Time : 06-APR-2006 15:20
Cal : 56138973001 Caldate: 06-APR-2006
Standards: S3101, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	94470	ug/L	-6		
Arsenic	100.0	97.51	ug/L	-2	20	
Cadmium	100.0	89.10	ug/L	-11	20	
Calcium	300000	325200	ug/L	8		
Chromium	200.0	217.3	ug/L	9	20	
Cobalt	200.0	197.8	ug/L	-1	20	
Copper	200.0	181.1	ug/L	-9	20	
Iron	250000	242700	ug/L	-3		
Magnesium	100000	97560	ug/L	-2		
Manganese	200.0	206.6	ug/L	3	20	
Molybdenum	2000	2138	ug/L	7		
Nickel	200.0	188.8	ug/L	-6	20	
Potassium	100000	103900	ug/L	4		
Selenium	100.0	88.07	ug/L	-12	20	
Silver	50.00	44.93	ug/L	-10	20	
Sodium	250000	240500	ug/L	-4		
Vanadium	200.0	224.8	ug/L	12	20	
Zinc	100.0	85.19	ug/L	-15	20	

ISTD (ICALBLK d0612003)	ICALBLK Abund	Abund	%Drift
Scandium	293386	220690	-24.78
Germanium	56751	43285	-23.73

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56138973 Instrument: MET05 Agilent ICP-MS Begun: 06-APR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	d0612001	TUN				06-APR-2006 12:13	1.0	1.0				1	
003	d0612003	ICALBLK	std-blk			06-APR-2006 12:25	1.0	1.0				2	
004	d0612004	ICAL	CS1			06-APR-2006 12:31	1.0	1.0				3	
005	d0612005	ICAL	CS2			06-APR-2006 12:36	1.0	1.0				4	
006	d0612006	ICAL	CS3			06-APR-2006 12:42	1.0	1.0				5	
007	d0612007	ICAL	CS4			06-APR-2006 12:48	1.0	1.0				6	
008	d0612008	ICAL	CS5			06-APR-2006 12:53	1.0	1.0				7	
009	d0612009	ICAL	CS6			06-APR-2006 12:59	1.0	1.0				8	
010	d0612010	ICV				06-APR-2006 13:04	1.0	1.0			1	9	
012	d0612012	ICB				06-APR-2006 13:15	1.0	1.0			1	2	
013	d0612013	ICSA				06-APR-2006 13:21	1.0	1.0			1	10 2	7:CA=365400
015	d0612015	ICSAB				06-APR-2006 13:36	1.0	1.0			1	11 2	11:CA=317500
016	d0612016	BLANK	QC333690	111849	Filtra	06-APR-2006 13:51	1.0	1.0	3		1	2	
017	d0612017	BS	QC333691	111849	Filtra	06-APR-2006 13:57	1.0	1.0	4	1	1	2	
018	d0612018	BSD	QC333692	111849	Filtra	06-APR-2006 14:03	1.0	1.0	4	2	1	2 spk	
020	d0612020	MSS	185679-011	111849	Filtra	06-APR-2006 14:14	1.0	1.0	5		1	2 spk	3:CA=49920.0
021	d0612021	SER	QC333695	111849	Filtra	06-APR-2006 14:19	5.0	1.0	2	3	1	2	
022	d0612022	MS	QC333693	111849	Filtra	06-APR-2006 14:25	1.0	1.0	2		1	2	4:CA=56310.0
023	d0612023	MSD	QC333694	111849	Filtra	06-APR-2006 14:30	1.0	1.0	2		1	2	4:CA=55900.0
025	d0612025	BLANK	QC334590	112078	Filtra	06-APR-2006 14:41	1.0	1.0			1	2	
026	d0612026	CCV				06-APR-2006 14:47	1.0	1.0	4		1	12 2	
028	d0612028	CCB				06-APR-2006 14:58	1.0	1.0			1	2	
029	d0612029	ICSA				06-APR-2006 15:04	1.0	1.0			1	10 2	7:CA=391100
030	d0612030	X				06-APR-2006 15:09	1.0	1.0	1		1	2	12:CA=328900
031	d0612031	ICSAB				06-APR-2006 15:20	1.0	1.0			1	11 2	10:CA=325200

Stds used: 1=S3105 2=05WS0207 3=S3096 4=S3097 5=S3098 6=S3099 7=S3093 8=S3094 9=S3102 10=S3100 11=S3101 12=S3104
Flags used: spk=5% spike rule

Analyst: [signature] Date: 4/6/6

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 4/6/2006 3:02:31 PM
Data Type: Reprocessed on 4/6/2006 4:01:00 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	133.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	-1259.2	114.90	9.12%	[0.00]	ug/L
Al 308.215 R	293.6	112.56	38.34%	[0.00]	ug/L
As 188.979	-248.3	6.85	2.76%	[0.00]	ug/L
B 249.677	-227.0	1.37	0.60%	[0.00]	ug/L
Ba 233.527	-333.5	9.78	2.93%	[0.00]	ug/L
Be 313.107	-26.5	6.05	22.88%	[0.00]	ug/L
Ca 315.887 R	380.1	6.66	1.75%	[0.00]	ug/L
Cd 214.440	-12.3	8.40	68.08%	[0.00]	ug/L
Co 228.616	-199.8	4.96	2.48%	[0.00]	ug/L
Cr 267.716	74.6	17.83	23.91%	[0.00]	ug/L
Cu 324.752	791.2	94.59	11.96%	[0.00]	ug/L
Fe 238.204 R	196.4	94.84	48.28%	[0.00]	ug/L
K 766.490 R	-4779.3	325.01	6.80%	[0.00]	ug/L
Mg 279.077 R	-198.3	3.31	1.67%	[0.00]	ug/L
Mn 257.610	183.6	10.41	5.67%	[0.00]	ug/L
Mo 202.031	-40.7	4.07	10.01%	[0.00]	ug/L
Na 589.592 R	917.0	140.56	15.33%	[0.00]	ug/L
Ni 231.604	310.8	16.33	5.25%	[0.00]	ug/L
Pb 220.353	220.0	8.08	3.67%	[0.00]	ug/L
Sb 206.836	730.2	10.83	1.48%	[0.00]	ug/L
Se 196.026	-61.0	4.69	7.68%	[0.00]	ug/L
Ti 334.940 R	346.1	81.24	23.47%	[0.00]	ug/L
Tl 190.801	241.9	13.81	5.71%	[0.00]	ug/L
V 292.402	-1234.9	2.29	0.19%	[0.00]	ug/L
Zn 206.200	-933.2	7.19	0.77%	[0.00]	ug/L
Sn 189.927	46.9	4.90	10.45%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 4/6/2006 3:06:35 PM
Data Type: Reprocessed on 4/6/2006 4:01:03 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	133.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2212991.2	17957.78	0.81%	100.0	%
Y	283929.5	4783.47	1.68%	100.0	%
Ag 328.068†	2147.9	283.07	13.18%	[5.0]	ug/L
Al 308.215 R†	17.5	43.01	245.55%	[100]	ug/L
As 188.979†	106.2	6.98	6.58%	[5.0]	ug/L
B 249.677†	16917.3	28.51	0.17%	[100]	ug/L
Ba 233.527†	2337.8	7.04	0.30%	[5.0]	ug/L
Be 313.107†	7859.3	76.62	0.97%	[2.0]	ug/L
Ca 315.887 R†	2732.4	111.18	4.07%	[200]	ug/L
Cd 214.440†	2012.3	23.75	1.18%	[5.0]	ug/L
Co 228.616†	644.0	6.59	1.02%	[5.0]	ug/L
Cr 267.716†	676.6	24.26	3.59%	[5.0]	ug/L
Cu 324.752†	3853.8	69.80	1.81%	[5.0]	ug/L
Fe 238.204 R†	1175.7	39.40	3.35%	[100]	ug/L
K 766.490 R†	2268.7	404.39	17.83%	[500]	ug/L
Mg 279.077 R†	463.1	14.95	3.23%	[200]	ug/L
Mn 257.610†	5444.7	45.42	0.83%	[5.0]	ug/L
Mo 202.031†	267.4	2.74	1.03%	[5.0]	ug/L
Na 589.592 R†	5192.4	145.37	2.80%	[500]	ug/L
Ni 231.604†	370.8	14.05	3.79%	[5.0]	ug/L
Pb 220.353†	202.1	19.72	9.76%	[3.0]	ug/L
Sb 206.836†	215.2	29.99	13.94%	[5.0]	ug/L
Se 196.026†	153.7	23.75	15.45%	[5.0]	ug/L
Ti 334.940 R†	11563.5	36.89	0.32%	[10]	ug/L
Tl 190.801†	120.5	16.86	13.98%	[5.0]	ug/L
V 292.402†	760.7	8.07	1.06%	[5.0]	ug/L
Zn 206.200†	2958.3	16.39	0.55%	[20]	ug/L
Sn 189.927†	973.3	22.07	2.27%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 4/6/2006 3:09:43 PM
Data Type: Reprocessed on 4/6/2006 4:01:04 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	133.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2200181.7	16921.77	0.77%	99.42	%
Y	293554.3	472.17	0.16%	103.4	%
Ag 328.068†	49913.9	476.11	0.95%	[100]	ug/L
As 188.979†	2399.9	18.09	0.75%	[100]	ug/L
Ba 233.527†	45872.4	555.11	1.21%	[100]	ug/L
Be 313.107†	404685.1	4647.35	1.15%	[100]	ug/L
Cd 214.440†	40978.1	481.99	1.18%	[100]	ug/L
Co 228.616†	12996.7	35.67	0.27%	[100]	ug/L
Cr 267.716†	11880.8	39.35	0.33%	[100]	ug/L
Cu 324.752†	75693.9	756.83	1.00%	[100]	ug/L
Mn 257.610†	105774.6	1179.16	1.11%	[100]	ug/L
Mo 202.031†	5279.9	28.00	0.53%	[100]	ug/L
Ni 231.604†	7262.3	21.22	0.29%	[100]	ug/L
Pb 220.353†	6373.4	47.40	0.74%	[100]	ug/L
Sb 206.836†	4845.6	55.21	1.14%	[100]	ug/L
Se 196.026†	2383.0	33.61	1.41%	[100]	ug/L
Ti 334.940 R†	119572.2	1273.49	1.07%	[100]	ug/L
Tl 190.801†	2489.0	16.72	0.67%	[100]	ug/L
V 292.402†	15418.8	53.61	0.35%	[100]	ug/L
Zn 206.200†	14016.0	19.72	0.14%	[100]	ug/L
Sn 189.927†	2542.4	14.96	0.59%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 4/6/2006 3:12:51 PM
Data Type: Reprocessed on 4/6/2006 4:01:05 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	133.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2266383.5	12400.81	0.55%	102.4	%
Y	287409.1	975.19	0.34%	101.2	%
Ag 328.068†	489426.8	1857.55	0.38%	[1000]	ug/L
Al 308.215 R†	1468.8	32.59	2.22%	[1000]	ug/L
As 188.979†	23739.8	374.01	1.58%	[1000]	ug/L
B 249.677†	170816.4	2252.55	1.32%	[1000]	ug/L
Ba 233.527†	446410.2	1908.47	0.43%	[1000]	ug/L
Be 313.107†	3929270.0	7169.63	0.18%	[1000]	ug/L
Ca 315.887 R†	12901.3	158.64	1.23%	[1000]	ug/L
Cd 214.440†	400381.5	1159.96	0.29%	[1000]	ug/L
Co 228.616†	130715.8	1658.51	1.27%	[1000]	ug/L
Cr 267.716†	114553.0	1460.67	1.28%	[1000]	ug/L
Cu 324.752†	757230.6	2653.56	0.35%	[1000]	ug/L
Fe 238.204 R†	12292.4	89.44	0.73%	[1000]	ug/L
K 766.490 R†	4574.9	184.72	4.04%	[1000]	ug/L
Mg 279.077 R†	2278.7	36.72	1.61%	[1000]	ug/L
Mn 257.610†	1028275.8	3264.42	0.32%	[1000]	ug/L
Mo 202.031†	51290.7	695.42	1.36%	[1000]	ug/L
Na 589.592 R†	10146.9	109.89	1.08%	[1000]	ug/L
Ni 231.604†	72357.7	971.04	1.34%	[1000]	ug/L
Pb 220.353†	62498.9	1042.24	1.67%	[1000]	ug/L
Sb 206.836†	47483.0	1250.18	2.63%	[1000]	ug/L
Se 196.026†	23032.4	247.74	1.08%	[1000]	ug/L
Ti 334.940 R†	1150156.7	4586.26	0.40%	[1000]	ug/L
Tl 190.801†	25017.9	231.61	0.93%	[1000]	ug/L
V 292.402†	150925.1	2019.97	1.34%	[1000]	ug/L
Zn 206.200†	135941.5	514.05	0.38%	[1000]	ug/L
Sn 189.927†	25328.2	467.53	1.85%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 4/6/2006 3:28:20 PM
Data Type: Reprocessed on 4/6/2006 4:01:06 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	133.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2173820.1	29093.76	1.34%	98.23	%
Y	275357.4	4071.68	1.48%	96.98	%
Ag 328.068†	1027529.3	38443.07	3.74%	[2000]	ug/L
Al 308.215 R†	17334.6	177.49	1.02%	[10000]	ug/L
As 188.979†	244004.4	6590.62	2.70%	[10000]	ug/L
B 249.677†	1788293.1	5558.70	0.31%	[10000]	ug/L
Ba 233.527†	4478211.4	80831.70	1.80%	[10000]	ug/L
Ca 315.887 R†	134041.8	1859.59	1.39%	[10000]	ug/L
Cd 214.440†	3968697.5	70904.35	1.79%	[10000]	ug/L
Co 228.616†	1309727.7	9904.47	0.76%	[10000]	ug/L
Cr 267.716†	1148520.4	6037.53	0.53%	[10000]	ug/L
Cu 324.752†	7771743.7	136162.79	1.75%	[10000]	ug/L
Fe 238.204 R†	128271.3	1798.86	1.40%	[10000]	ug/L
K 766.490 R†	48229.7	800.78	1.66%	[10000]	ug/L
Mg 279.077 R†	23395.0	303.67	1.30%	[10000]	ug/L
Mn 257.610†	10073657.6	180290.25	1.79%	[10000]	ug/L
Mo 202.031†	520100.8	12409.04	2.39%	[10000]	ug/L
Na 589.592 R†	105330.7	1385.84	1.32%	[10000]	ug/L
Ni 231.604†	727233.5	19132.27	2.63%	[10000]	ug/L
Pb 220.353†	623818.8	16460.43	2.64%	[10000]	ug/L
Sb 206.836†	488295.8	11419.88	2.34%	[10000]	ug/L
Se 196.026†	239585.4	6571.74	2.74%	[10000]	ug/L
Ti 334.940 R†	11539649.7	198679.16	1.72%	[10000]	ug/L
Tl 190.801†	249922.2	6149.44	2.46%	[10000]	ug/L
V 292.402†	1552132.8	7746.75	0.50%	[10000]	ug/L
Zn 206.200†	1391850.9	10743.05	0.77%	[10000]	ug/L
Sn 189.927†	258560.9	6880.61	2.66%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 4/6/2006 3:31:08 PM
Data Type: Reprocessed on 4/6/2006 4:01:07 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	133.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2010867.5	13337.83	0.66%	90.87	%
Y	274612.9	1813.66	0.66%	96.72	%
Al 308.215 R†	164757.2	421.81	0.26%	[100000]	ug/L
Ca 315.887 R†	1226706.4	3853.62	0.31%	[100000]	ug/L
Fe 238.204 R†	1154999.5	3398.62	0.29%	[100000]	ug/L
K 766.490 R†	451736.0	1026.52	0.23%	[100000]	ug/L
Mg 279.077 R†	211287.5	920.75	0.44%	[100000]	ug/L
Na 589.592 R†	950451.0	3334.56	0.35%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	508.9	0.00000	0.999817	
Al 308.215 R	4	Lin Thru 0	0.0	1.648	0.00000	0.999986	
As 188.979	4	Lin Thru 0	0.0	24.39	0.00000	0.999996	
B 249.677	3	Lin Thru 0	0.0	178.7	0.00000	0.999990	
Ba 233.527	4	Lin Thru 0	0.0	447.8	0.00000	1.000000	
Be 313.107	3	Lin Thru 0	0.0	3930	0.00000	0.999996	
Ca 315.887 R	4	Lin Thru 0	0.0	12.28	0.00000	0.999958	
Cd 214.440	4	Lin Thru 0	0.0	396.9	0.00000	1.000000	
Co 228.616	4	Lin Thru 0	0.0	131.0	0.00000	1.000000	
Cr 267.716	4	Lin Thru 0	0.0	114.8	0.00000	1.000000	
Cu 324.752	4	Lin Thru 0	0.0	777.0	0.00000	0.999997	
Fe 238.204 R	4	Lin Thru 0	0.0	11.56	0.00000	0.999940	
K 766.490 R	4	Lin Thru 0	0.0	4.520	0.00000	0.999978	
Mg 279.077 R	4	Lin Thru 0	0.0	2.115	0.00000	0.999943	
Mn 257.610	4	Lin Thru 0	0.0	1008	0.00000	0.999998	
Mo 202.031	4	Lin Thru 0	0.0	52.00	0.00000	0.999999	
Na 589.592 R	4	Lin Thru 0	0.0	9.515	0.00000	0.999942	
Ni 231.604	4	Lin Thru 0	0.0	72.72	0.00000	1.000000	
Pb 220.353	4	Lin Thru 0	0.0	62.38	0.00000	1.000000	
Sb 206.836	4	Lin Thru 0	0.0	48.82	0.00000	0.999996	
Se 196.026	4	Lin Thru 0	0.0	23.95	0.00000	0.999993	
Ti 334.940 R	4	Lin Thru 0	0.0	1154	0.00000	1.000000	
Tl 190.801	4	Lin Thru 0	0.0	24.99	0.00000	1.000000	
V 292.402	4	Lin Thru 0	0.0	155.2	0.00000	0.999996	
Zn 206.200	4	Lin Thru 0	0.0	139.2	0.00000	0.999997	
Sn 189.927	4	Lin Thru 0	0.0	25.85	0.00000	0.999998	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86139142007 File : 040606br.txt Time : 06-APR-2006 15:33
Cal : 86139142001 Caldate: 06-APR-2006
Standards: S3125

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	46.950	50.315	5000	5153	ug/L	3	10	
Arsenic	A	23.344	24.826	5000	5089	ug/L	2	10	
Barium	A	455.13	456.82	5000	5101	ug/L	2	10	
Beryllium	A	3968.6	4093.6	500.0	520.8	ug/L	4	10	
Boron	A	172.94	181.05	5000	5064	ug/L	1	10	
Cadmium	A	402.37	404.63	5000	5097	ug/L	2	10	
Chromium	A	120.88	114.26	5000	4974	ug/L	-1	10	
Cobalt	A	130.11	128.78	5000	4906	ug/L	-2	10	
Copper	A	765.53	757.79	5000	4877	ug/L	-2	10	
Lead	A	63.992	60.964	5000	4886	ug/L	-2	10	
Manganese	A	1045.6	1016.3	5000	5043	ug/L	1	10	
Molybdenum	A	52.397	53.069	5000	5103	ug/L	2	10	
Nickel	A	72.965	71.897	5000	4943	ug/L	-1	10	
Selenium	A	25.391	23.880	5000	4986	ug/L	0	10	
Silver	A	482.98	487.17	1000	957.3	ug/L	-4	10	
Thallium	A	24.752	24.852	5000	4972	ug/L	-1	10	
Tin	A	25.235	25.198	5000	4874	ug/L	-3	10	
Titanium	A	1164.0	1153.2	5000	4997	ug/L	0	10	
Vanadium	A	153.12	154.69	5000	4984	ug/L	0	10	
Zinc	A	140.80	139.04	5000	4996	ug/L	0	10	
Aluminum	R	1.2563	1.6270	20000	19740	ug/L	-1	10	
Calcium	R	13.059	12.508	20000	20370	ug/L	2	10	
Iron	R	12.107	11.919	20000	20620	ug/L	3	10	
Magnesium	R	2.2617	2.1795	20000	20610	ug/L	3	10	
Potassium	R	4.6131	4.4882	20000	19860	ug/L	-1	10	
Sodium	R	10.142	9.7102	20000	20410	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2212991	2150620	-2.82

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86139142020 File : 040606br.txt Time : 06-APR-2006 16:35
Cal : 86139142001 Caldate: 06-APR-2006
Standards: S3126

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	46.950	48.199	5000	4937	ug/L	-1	10	
Arsenic	A	23.344	24.251	5000	4971	ug/L	-1	10	
Barium	A	455.13	453.81	5000	5067	ug/L	1	10	
Beryllium	A	3968.6	4099.6	500.0	521.5	ug/L	4	10	
Boron	A	172.94	179.51	5000	5021	ug/L	0	10	
Cadmium	A	402.37	406.37	5000	5119	ug/L	2	10	
Chromium	A	120.88	113.87	5000	4957	ug/L	-1	10	
Cobalt	A	130.11	128.28	5000	4888	ug/L	-2	10	
Copper	A	765.53	754.27	5000	4854	ug/L	-3	10	
Lead	A	63.992	60.366	5000	4838	ug/L	-3	10	
Manganese	A	1045.6	1020.9	5000	5066	ug/L	1	10	
Molybdenum	A	52.397	52.557	5000	5053	ug/L	1	10	
Nickel	A	72.965	70.629	5000	4856	ug/L	-3	10	
Selenium	A	25.391	23.491	5000	4904	ug/L	-2	10	
Silver	A	482.98	477.71	1000	938.8	ug/L	-6	10	
Thallium	A	24.752	24.800	5000	4961	ug/L	-1	10	
Tin	A	25.235	24.769	5000	4791	ug/L	-4	10	
Titanium	A	1164.0	1144.1	5000	4957	ug/L	-1	10	
Vanadium	A	153.12	154.27	5000	4971	ug/L	-1	10	
Zinc	A	140.80	140.01	5000	5031	ug/L	1	10	
Aluminum	R	1.2563	1.6426	20000	19930	ug/L	0	10	
Calcium	R	13.059	12.388	20000	20180	ug/L	1	10	
Iron	R	12.107	11.951	20000	20670	ug/L	3	10	
Magnesium	R	2.2617	2.1839	20000	20650	ug/L	3	10	
Potassium	R	4.6131	4.5685	20000	20210	ug/L	1	10	
Sodium	R	10.142	9.8521	20000	20710	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2212991	2191400	-0.98

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86139142008 File : 040606br.txt Time : 06-APR-2006 15:42
Cal : 86139142001 Caldate: 06-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	[1.383]	5.000	1.047	ug/L	!ib
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	[0.9715]	5.000	0.7122	ug/L	!ib
Lead	A	[2.752]	3.000	0.5698	ug/L	!ib
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[0.9634]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	[2.425]	5.000	1.575	ug/L	!ib
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[1.382]	5.000	0.9317	ug/L	!ib
Tin	A	[8.341]	40.00	4.403	ug/L	!ib
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2212991	2235517	1.02

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86139142022 File : 040606br.txt Time : 06-APR-2006 16:42
Cal : 86139142001 Caldate: 06-APR-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	[0.9106]	3.000	0.5698	ug/L	!ib
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[0.8178]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	[1.726]	5.000	1.575	ug/L	!ib
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[1.330]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	[93.24]	500.0	39.23	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2212991	2254739	1.89

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86139142009 File : 040606br.txt Time : 06-APR-2006 15:46
Cal : 86139142001 Caldate: 06-APR-2006
Standards: S2555

Analyte	Ch	Quant	RL	Units	Flags
Antimony	A	[4.767]	5.000	ug/L	
Arsenic	A	[-1.102]	5.000	ug/L	
Barium	A	[0.8441]	5.000	ug/L	
Beryllium	A	[0.01849]	2.000	ug/L	
Boron	A	[19.22]	100.0	ug/L	
Cadmium	A	[2.326]	5.000	ug/L	
Cobalt	A	[-0.1224]	5.000	ug/L	
Lead	A	[-2.900]	3.000	ug/L	
Molybdenum	A	[2.935]	5.000	ug/L	
Selenium	A	[4.770]	5.000	ug/L	
Silver	A	[-1.685]	5.000	ug/L	
Thallium	A	[0.5264]	5.000	ug/L	
Tin	A	[13.30]	40.00	ug/L	
Zinc	A	[17.76]	20.00	ug/L	
Potassium	R	[-16.89]	500.0	ug/L	
Sodium	R	[31.68]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19500	ug/L	97
Copper	A	20000	20790	ug/L	104
Manganese	A	20000	19100	ug/L	95
Nickel	A	20000	17570	ug/L	88
Titanium	A	20000	20100	ug/L	100
Vanadium	A	20000	20430	ug/L	102
Aluminum	R	500000	519700	ug/L	104
Calcium	R	500000	502400	ug/L	100
Iron	R	200000	197300	ug/L	99
Magnesium	R	500000	507600	ug/L	102

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2212991	1871884	-15.41

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86139142010 File : 040606br.txt Time : 06-APR-2006 16:02
Cal : 86139142001 Caldate: 06-APR-2006
Standards: S2570

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	534.7	ug/L	7	20	
Arsenic	A	500.0	529.4	ug/L	6	20	
Barium	A	500.0	538.4	ug/L	8	20	
Beryllium	A	500.0	547.1	ug/L	9	20	
Cadmium	A	1000	1012	ug/L	1	20	
Chromium	A	500.0	520.1	ug/L	4	20	
Cobalt	A	500.0	462.3	ug/L	-8	20	
Copper	A	500.0	513.3	ug/L	3	20	
Lead	A	1000	938.8	ug/L	-6	20	
Manganese	A	500.0	535.0	ug/L	7	20	
Molybdenum	A	500.0	515.6	ug/L	3	20	
Nickel	A	1000	918.8	ug/L	-8	20	
Selenium	A	500.0	530.3	ug/L	6	20	
Silver	A	1000	1062	ug/L	6	20	
Thallium	A	500.0	492.0	ug/L	-2	20	
Titanium	A	20000	20330	ug/L	2		
Vanadium	A	500.0	548.3	ug/L	10	20	
Zinc	A	1000	972.6	ug/L	-3	20	
Aluminum	R	500000	537700	ug/L	8		
Calcium	R	500000	495200	ug/L	-1		
Iron	R	200000	196700	ug/L	-2		
Magnesium	R	500000	513700	ug/L	3		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2212991	1849591	-16.42

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86139142018 File : 040606br.txt Time : 06-APR-2006 16:30
Cal : 86139142001 Caldate: 06-APR-2006
Standards: S2570

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	534.5	ug/L	7	20	
Arsenic	A	500.0	520.2	ug/L	4	20	
Barium	A	500.0	540.7	ug/L	8	20	
Beryllium	A	500.0	551.1	ug/L	10	20	
Cadmium	A	1000	1017	ug/L	2	20	
Chromium	A	500.0	517.1	ug/L	3	20	
Cobalt	A	500.0	458.2	ug/L	-8	20	
Copper	A	500.0	515.1	ug/L	3	20	
Lead	A	1000	927.6	ug/L	-7	20	
Manganese	A	500.0	537.6	ug/L	8	20	
Molybdenum	A	500.0	511.2	ug/L	2	20	
Nickel	A	1000	910.5	ug/L	-9	20	
Selenium	A	500.0	525.6	ug/L	5	20	
Silver	A	1000	1069	ug/L	7	20	
Thallium	A	500.0	487.0	ug/L	-3	20	
Titanium	A	20000	20380	ug/L	2		
Vanadium	A	500.0	543.8	ug/L	9	20	
Zinc	A	1000	965.0	ug/L	-3	20	
Aluminum	R	500000	534200	ug/L	7		
Calcium	R	500000	500200	ug/L	0		
Iron	R	200000	199100	ug/L	0		
Magnesium	R	500000	509700	ug/L	2		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2212991	1843192	-16.71

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86139142 Instrument: MET08 PE ICP Begun: 06-APR-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	040606br	ICALBLK				06-APR-2006 15:02	1.0	1.0				
002	040606br	ICAL	CRIM08			06-APR-2006 15:06	1.0	1.0			1	
003	040606br	ICAL	CS100			06-APR-2006 15:09	1.0	1.0			2	
004	040606br	ICAL	CS1K			06-APR-2006 15:12	1.0	1.0			3	
005	040606br	ICAL	CS10K			06-APR-2006 15:28	1.0	1.0			4	
006	040606br	ICAL	CS100K			06-APR-2006 15:31	1.0	1.0			5	
007	040606br	ICV				06-APR-2006 15:33	1.0	1.0		5000	6	
008	040606br	ICB				06-APR-2006 15:42	1.0	1.0		5000		
009	040606br	ICSA				06-APR-2006 15:46	1.0	1.0		5000	7	10:AL=519704
010	040606br	ICSAB				06-APR-2006 16:02	1.0	1.0		5000	8	5:AL=537703
011	040606br	MSS	185921-001	111935	Soil	06-APR-2006 16:07	1.0	53.76	4	5000		4:FE=673912
012	040606br	SAMPLE	185928-001	111954	Filtra	06-APR-2006 16:10	1.0	1.0		5000		2:CA=1547562
013	040606br	SAMPLE	185928-004	111954	Filtra	06-APR-2006 16:13	1.0	1.0	1	5000		4:NA=862670
014	040606br	SAMPLE	185928-002	111954	Filtra	06-APR-2006 16:16	1.0	1.0		5000		1:NA=104564
015	040606br	SAMPLE	185928-003	111954	Filtra	06-APR-2006 16:20	1.0	1.0		5000		3:NA=353867
016	040606br	SAMPLE	185679-020	111850	Water	06-APR-2006 16:23	1.0	1.0	1	5000		1:NA=146241
017	040606br	SAMPLE	185679-021	111850	Water	06-APR-2006 16:27	1.0	1.0	1	5000		1:NA=141693
018	040606br	ICSAB				06-APR-2006 16:30	1.0	1.0		5000	8	5:AL=534167
019	040606br	X	RINSE			06-APR-2006 16:32	1.0					
020	040606br	CCV				06-APR-2006 16:35	1.0	1.0		5000	9	
021	040606br	X	FLUSH			06-APR-2006 16:38	1.0					
022	040606br	CCB				06-APR-2006 16:42	1.0	1.0		5000		

Stds used: 1=S2544 2=S2568 3=S2567 4=S2569 5=S2556 6=S3125 7=S2555 8=S2570 9=S3126

Analyst: K Carley Date: 4/6/06

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185679 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
185679-019	MET04	03/22/06 13:54	1.0															+								
185679-019	MET08	04/04/06 22:44	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
185679-019	MET05	04/05/06 21:33	1.0		+				+				+									+		+		
185679-020	MET08	04/04/06 22:50	1.0			+				+	+			+	+	+	+		+	+						+
185679-020	MET08	04/04/06 22:57	2.0																				+			
185679-020	MET05	04/05/06 21:39	1.0						+				+													
185679-020	MET08	04/06/06 16:23	1.0	+																						
185679-021	MET08	04/04/06 22:53	1.0			+				+	+			+		+	+		+	+						+
185679-021	MET08	04/04/06 23:00	2.0																				+			
185679-021	MET05	04/05/06 21:44	1.0						+				+													
185679-021	MET08	04/06/06 16:27	1.0	+											+											
QC332499	MET04	03/22/06 13:41	1.0															+								
QC332500	MET04	03/22/06 13:44	1.0															+								
QC332501	MET04	03/22/06 13:45	1.0															+								
QC332502	MET04	03/22/06 13:51	1.0															+								
QC332503	MET04	03/22/06 13:52	1.0															+								
QC332504	MET04	03/22/06 13:49	5.0															+								
QC333697	MET08	04/04/06 21:26	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC333697	MET05	04/05/06 20:26	1.0		+				+				+									+		+		
QC333698	MET08	04/04/06 21:30	1.0																							
QC333698	MET08	04/04/06 21:33	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC333698	MET05	04/05/06 20:54	1.0		+				+				+									+		+		
QC333699	MET08	04/04/06 21:36	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC333699	MET05	04/05/06 21:00	1.0		+				+				+									+		+		
QC333700	MET08	04/04/06 22:06	1.0																							
QC333700	MET08	04/04/06 22:10	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC333700	MET05	04/05/06 21:17	1.0		+				+				+									+		+		
QC333701	MET08	04/04/06 22:13	1.0																							
QC333701	MET08	04/04/06 22:15	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC333701	MET05	04/05/06 21:22	1.0		+				+				+									+		+		
QC333702	MET08	04/04/06 21:42	5.0	+		+	+	+			+	+		+	+	+	+		+	+	+		+		+	+
QC333702	MET08	04/04/06 22:03	10.0							+																
QC333702	MET05	04/05/06 21:11	5.0		+				+				+									+		+		

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185679 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	ALBS	ASA	BAE	BED	CAR	CCO	CUE	FEB	PBG	MGN	HGI	NIE	KEG	SEA	NAL	TLN	VZN
QC333703	MET08	04/04/06 22:17	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC333703	MET05	04/05/06 21:28	1.0	+			+			+							+	+		

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185679 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
185679-001	MET04	03/22/06 13:57	1.0															+								
185679-001	MET08	04/04/06 19:21	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
185679-001	MET05	04/05/06 18:18	1.0		+				+				+									+		+		
185679-002	MET04	03/22/06 13:59	1.0															+								
185679-002	MET08	04/04/06 19:25	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
185679-002	MET05	04/05/06 18:23	1.0		+				+				+									+		+		
185679-003	MET04	03/22/06 14:05	1.0															+								
185679-003	MET08	04/04/06 19:29	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
185679-003	MET05	04/05/06 18:29	1.0		+				+				+									+		+		
185679-004	MET04	03/22/06 14:07	1.0															+								
185679-004	MET08	04/04/06 19:33	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
185679-004	MET05	04/05/06 18:34	1.0		+				+				+									+		+		
185679-005	MET04	03/22/06 14:09	1.0															+								
185679-005	MET08	04/04/06 19:37	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
185679-005	MET05	04/05/06 18:40	1.0		+				+				+									+		+		
185679-006	MET04	03/22/06 14:11	1.0															+								
185679-006	MET08	04/04/06 19:56	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
185679-006	MET05	04/05/06 18:46	1.0		+				+				+									+		+		
185679-007	MET04	03/22/06 14:13	1.0															+								
185679-007	MET08	04/04/06 20:00	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
185679-007	MET05	04/05/06 18:51	1.0		+				+				+									+		+		
185679-008	MET04	03/22/06 14:15	1.0															+								
185679-008	MET08	04/04/06 20:04	1.0	+		+	+	+		+	+	+		+	+		+		+	+	+				+	+
185679-008	MET08	04/04/06 21:12	2.0													+							+			
185679-008	MET05	04/05/06 18:57	1.0		+				+				+									+		+		
185679-009	MET08	04/04/06 21:39	1.0	+		+					+			+	+	+	+		+	+			+			+
185679-009	MET08	04/04/06 22:00	2.0							+																
185679-009	MET05	04/05/06 21:05	1.0						+				+													
185679-010	MET08	04/04/06 20:07	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
185679-010	MET05	04/05/06 19:02	1.0		+				+				+									+		+		
185679-011	MET08	04/04/06 18:46	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
185679-011	MET05	04/05/06 17:27	1.0																							
185679-011	MET05	04/06/06 14:14	1.0		+				+				+									+		+		
185679-012	MET08	04/04/06 20:11	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
185679-012	MET05	04/05/06 19:30	1.0		+				+				+									+		+		
185679-013	MET08	04/04/06 20:15	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185679 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
185679-013	MET05	04/05/06 19:36	1.0		+				+				+									+		+		
185679-014	MET08	04/04/06 20:19	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
185679-014	MET05	04/05/06 19:41	1.0		+				+				+									+		+		
185679-015	MET08	04/04/06 20:24	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
185679-015	MET05	04/05/06 19:47	1.0		+				+				+									+		+		
185679-016	MET08	04/04/06 20:28	1.0	+		+	+	+		+	+	+		+	+		+		+	+	+		+		+	+
185679-016	MET08	04/04/06 21:16	2.0													+										
185679-016	MET05	04/05/06 19:53	1.0		+				+				+									+		+		
185679-017	MET04	03/22/06 14:18	1.0															+								
185679-017	MET08	04/04/06 20:32	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
185679-017	MET05	04/05/06 19:58	1.0		+				+				+									+		+		
185679-019	MET04	03/22/06 14:20	1.0															+								
185679-019	MET08	04/04/06 20:50	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
185679-019	MET05	04/05/06 20:04	1.0		+				+				+									+		+		
185679-020	MET08	04/04/06 22:20	1.0	+		+				+	+			+	+	+	+		+	+						+
185679-020	MET08	04/04/06 22:38	2.0																				+			
185679-020	MET05	04/05/06 22:12	1.0						+				+													
185679-021	MET08	04/04/06 22:41	1.0	+		+				+	+			+	+	+	+		+	+						+
185679-021	MET08	04/04/06 22:47	2.0																				+			
185679-021	MET05	04/05/06 22:18	1.0						+				+													
QC332499	MET04	03/22/06 13:41	1.0															+								
QC332500	MET04	03/22/06 13:44	1.0															+								
QC332501	MET04	03/22/06 13:45	1.0															+								
QC332502	MET04	03/22/06 13:51	1.0															+								
QC332503	MET04	03/22/06 13:52	1.0															+								
QC332504	MET04	03/22/06 13:49	5.0															+								
QC333690	MET08	04/04/06 18:28	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC333690	MET05	04/05/06 17:11	1.0																							
QC333690	MET05	04/06/06 13:51	1.0		+				+				+									+		+		
QC333691	MET08	04/04/06 18:32	1.0																							
QC333691	MET08	04/04/06 18:35	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC333691	MET05	04/05/06 17:16	1.0																							
QC333691	MET05	04/06/06 13:57	1.0		+				+				+									+		+		

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185679 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
QC333692	MET08	04/04/06 18:38	1.0			+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC333692	MET08	04/04/06 18:43	1.0	+																						
QC333692	MET05	04/05/06 17:22	1.0																							
QC333692	MET05	04/06/06 14:03	1.0		+				+				+									+		+		
QC333693	MET08	04/04/06 19:11	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC333693	MET05	04/05/06 17:39	1.0																							
QC333693	MET05	04/06/06 14:25	1.0		+				+				+									+		+		
QC333694	MET08	04/04/06 19:14	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC333694	MET05	04/05/06 17:44	1.0																							
QC333694	MET05	04/06/06 14:30	1.0		+				+				+									+		+		
QC333695	MET08	04/04/06 19:07	5.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC333695	MET05	04/05/06 17:33	5.0																							
QC333695	MET05	04/06/06 14:19	5.0		+				+				+									+		+		
QC333696	MET08	04/04/06 19:18	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC333696	MET05	04/05/06 18:12	1.0		+				+				+									+				
QC333697	MET08	04/04/06 21:26	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC333697	MET05	04/05/06 20:26	1.0		+				+				+									+		+		
QC333698	MET08	04/04/06 21:30	1.0																							
QC333698	MET08	04/04/06 21:33	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC333698	MET05	04/05/06 20:54	1.0		+				+				+									+		+		
QC333699	MET08	04/04/06 21:36	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC333699	MET05	04/05/06 21:00	1.0		+				+				+									+		+		
QC333700	MET08	04/04/06 22:06	1.0																							
QC333700	MET08	04/04/06 22:10	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC333700	MET05	04/05/06 21:17	1.0		+				+				+									+		+		
QC333701	MET08	04/04/06 22:13	1.0																							
QC333701	MET08	04/04/06 22:15	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC333701	MET05	04/05/06 21:22	1.0		+				+				+									+		+		
QC333702	MET08	04/04/06 21:42	5.0	+		+	+	+			+	+		+	+	+	+		+	+	+		+		+	+
QC333702	MET08	04/04/06 22:03	10.0							+																
QC333702	MET05	04/05/06 21:11	5.0		+				+				+									+		+		
QC333703	MET08	04/04/06 22:17	1.0	+		+	+	+			+	+		+	+	+	+		+	+	+		+		+	+
QC333703	MET05	04/05/06 21:28	1.0		+				+				+									+		+		

Curtis & Tompkins Laboratories **Sample Preparation Summary** **31-MAR-2006 06:40**

Batch Number : 111849
Date Extracted: 30-MAR-2006
Extracted by : Kevin Gaines
Prep Method : 200.8

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S2309
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185679-001		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
185679-002		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
185679-003		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
185679-004		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
185679-005		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
185679-006		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
185679-007		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
185679-008		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
185679-010		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
185679-011		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
185679-012		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
185679-013		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
185679-014		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
185679-015		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
185679-016		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
185679-017		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
185679-019		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
QC333690	BLANK		Filtrate	50	mL	50	1.000000	1				ICAP		
QC333691	BS		Filtrate	50	mL	50	1.000000	1	.5			ICAP		
QC333692	BSD		Filtrate	50	mL	50	1.000000	1	.5			ICAP		
QC333693	MS	of 185679-011	Filtrate	50	mL	50	1.000000	1	.5			ICAP		
QC333694	MSD	of 185679-011	Filtrate	50	mL	50	1.000000	1	.5			ICAP		
QC333695	SER	of 185679-011	Filtrate	50	mL	50	1.000000	1				ICAP		
QC333696	PDS	of 185679-011	Filtrate	50	mL	50	1.000000	1				ICAP		

Prep Chemist: KC for K Gaines Reviewed By: K Carlyon Date: 4/4/06

Relinquished By: KC for K Gaines Received By: K Carlyon Date: 4/4/06

Water Digestion for ICP-MS Curtis & Tompkins, Ltd.

LIMS Batch #: 111845
Date Digested: 3/30/06
Digested by: [illegible]

Digestion Method
☑ EPA 200.8 for ICP-MS
☐ _____

BK 2288
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Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BLK	50	50	N	
BS				
BSD				
MS-11A				FIELD FILTERED
MSD-11				
185629 11				
-01G				
-02				
-03				
-04				
-05				
-06C				
-07				
-08G				
-10A				
-12				
-13				
-14				
-15				
-16				
-17D				
-19				

	Reagent ID or LIMS #	Initials / Date
5 digestion temperature (90-95 degrees C)	95	[illegible] 3/30
.5 mL of spike solution was added to all spikes	52309	
concentrated HCl	C02031 BAKER	
concentrated HNO3	B49053	
☐ filtered thru' Whatman # 541		

[illegible] 3/30/06
Extraction Chemist / Date

Continued from page ___
Continued on page ___

[illegible] 3/30/06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Preparation Summary 06-APR-2006 15:40

Batch Number : 111850
Date Extracted: 30-MAR-2006
Extracted by : Kevin Gaines
Prep Method : 200.8

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S2309
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185679-009			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185679-019			Treadwell & Rollo	Water	50	mL	50	1.000000	1					TAL/ICP		
185679-020			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185679-020			Treadwell & Rollo	Water	50	mL	50	1.000000	1					14MET		
185679-021			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
185679-021			Treadwell & Rollo	Water	50	mL	50	1.000000	1					14MET		
QC333697	BLANK			Filtrate	50	mL	50	1.000000	1					ICAP		
QC333698	BS			Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC333699	BSD			Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC333700	MS	of 185679-009		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC333701	MSD	of 185679-009		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC333702	SER	of 185679-009		Filtrate	50	mL	50	1.000000	1					ICAP		
QC333703	PDS	of 185679-009		Filtrate	50	mL	50	1.000000	1					ICAP		

Prep Chemist: [illegible] Reviewed By: [illegible] Date: 4/6/6

Relinquished By: [illegible] Received By: [illegible] Date: 4/6/6

Water Digestion for ICP-MS

Curtis & Tompkins, Ltd.

LIMS Batch #: 118850
Date Digested: 3/30/04
Digested by: [illegible]

Digestion Method
☒ EPA 200.8 for ICP-MS
☐ _____

BK 2288
Page 36

Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BLK	50	50		
BS				
BSD				
MS-09				FIELD FILTERED
MSD-09				
185679-09				
-20				
-21				
679-19				
-20				
-21				

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90-95 degrees C)	95	[illegible] 3/30
5 mL of spike solution was added to all spikes	52309	
concentrated HCl	C02031 BAKER	
concentrated HNO3	B49053	
☐ filtered thru' Whatman # 541		

[illegible] 3/30/04
Extraction Chemist / Date

Continued from page ___
Continued on page ___

[illegible] 3/30/04
Reviewed by / Date

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

Inst : MET04
Calnum : 46117445001 Date : 22-MAR-2006 13:25 Type : WATER Reviewer: ---
Units : ug/L X Axis : R Inj Vol : 2000 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	111549	46117445002	Std02Rep1	22-MAR-2006 13:27	S2973 (500X)
L2	111549	46117445003	Std03Rep1	22-MAR-2006 13:29	S2973 (200X)
L3	111549	46117445004	Std04Rep1	22-MAR-2006 13:31	S2973 (50X)
L4	111549	46117445005	Std05Rep1	22-MAR-2006 13:33	S2973 (20X)
L5	111549	46117445006	Std06Rep1	22-MAR-2006 13:36	S2973 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Mercury	62350	66294	68539	64851	61711	LINR	-0.0866	1.62E-5		64749	0.999	.99	

441

LINR=Linear regression

Instrument amount = a0 + response * a1 + response^2 * a2

46117445001

WinHg Database 1.3

File Utility Help

Protocol hgppb

Dataset/Proto 032206 /hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.61719e-5

C -8.66286e-2

Rho .999579

Type Linear

☑ Calibrated

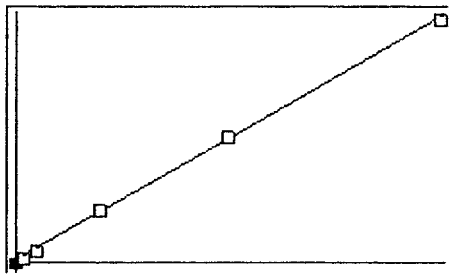
☑ Accepted

Accept

Rel. Abs.
617106

Accepted

New



Conc. 10.0

Include S1 Rep 1 ☑

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.045	-.045	2581	0	2580		
02	.20000	.115	-.085	12471	0%	12470		
03	.50000	.449	-.051	33148	0%	33147		
04	2.0000	2.13	.130	137078	0%	137077		
05	5.0000	5.16	.157	324253	0%	324253		
06	10.000	9.89	-.107	617107	0%	617106		

ner 1.3 | WinHG Rack Editor 1.0 - ... | WinHg Database 1.3 | VWR.COM - Product Pag... | 1:36 PM

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Standard: 1 Rep: 1              Seq:  9       13:25:53 22 Mar 06   HG

Hg    .000    ppb       2580
              Bkgd 1    9931092

*** Standard: 2 Rep: 1              Seq:  10      13:27:38 22 Mar 06   HG

Hg    .200    ppb       12470
              Bkgd 1    9931570

*** Standard: 3 Rep: 1              Seq:  11      13:29:56 22 Mar 06   HG

Hg    .500    ppb       33147
              Bkgd 1    9932196

*** Standard: 4 Rep: 1              Seq:  12      13:31:40 22 Mar 06   HG

Hg    2.00    ppb       137077
              Bkgd 1    9932560

*** Standard: 5 Rep: 1              Seq:  13      13:33:47 22 Mar 06   HG

Hg    5.00    ppb       324253
              Bkgd 1    9931671

*** Standard: 6 Rep: 1              Seq:  14      13:36:07 22 Mar 06   HG

Hg    10.0    ppb       617106
              Bkgd 1    9932453

*** Check Standard: 2  Ck2s2975     Seq:  15      13:37:55 22 Mar 06   HG
Line  Flag             Intensities
Hg                     318618
              Bkgd 1   9927314

*** Check Standard: 1  Ck1ICB       Seq:  16      13:39:41 22 Mar 06   HG
Line  Flag             Intensities
Hg                     -2798
              Bkgd 1   9926046

*** Sample ID: QC332499             Seq:  17      13:41:24 22 Mar 06   HG
                           111549,1
Hg   -.074    ppb       808
              Bkgd 1    9930519

=============================================================================
```

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 46117445 Instrument: MET04 HydraAA HG Analyzer Begun: 22-MAR-2006
Analytical Method: EPA 7470A SOP Version: HG_water_rv7
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	111549	ICALBLK	Std01Rep1				22-MAR-2006 13:25	1.0	1.0									
002	111549	ICAL	Std02Rep1				22-MAR-2006 13:27	1.0	1.0									
003	111549	ICAL	Std03Rep1				22-MAR-2006 13:29	1.0	1.0									
004	111549	ICAL	Std04Rep1				22-MAR-2006 13:31	1.0	1.0									
005	111549	ICAL	Std05Rep1				22-MAR-2006 13:33	1.0	1.0									
006	111549	ICAL	Std06Rep1				22-MAR-2006 13:36	1.0	1.0									
007	111549	ICV					22-MAR-2006 13:37	1.0	1.0	2	5.000	46117445001	5.070		ug/L	101		
008	111549	ICB					22-MAR-2006 13:39	1.0	1.0			46117445001	ND	0.20	ug/L			
009	111549	BLANK	QC332499		111549	Water	22-MAR-2006 13:41	1.0	1.0			46117445001	ND	0.20	ug/L			
010	111549	BS	QC332500		111549	Water	22-MAR-2006 13:44	1.0	1.0		5.000	46117445001	4.990	0.20	ug/L	100		
011	111549	BSD	QC332501		111549	Water	22-MAR-2006 13:45	1.0	1.0		5.000	46117445001	5.160	0.20	ug/L	103	3	
012	111549	MSS	185681-005		111549	Water	22-MAR-2006 13:47	1.0	1.0			46117445001	ND	0.20	ug/L			
013	111549	SER	QC332504	185681-005	111549	Water	22-MAR-2006 13:49	5.0	1.0			46117445001	ND	1.0	ug/L		--	
014	111549	MS	QC332502	185681-005	111549	Water	22-MAR-2006 13:51	1.0	1.0		5.000	46117445001	5.530	0.20	ug/L	108		
015	111549	MSD	QC332503	185681-005	111549	Water	22-MAR-2006 13:52	1.0	1.0		5.000	46117445001	5.500	0.20	ug/L	107	1	
016	111549	SAMPLE	185679-019		111549	Water	22-MAR-2006 13:54	1.0	1.0			46117445001	0.25	0.20	ug/L			
017	111549	SAMPLE	185679-001		111549	Filtra	22-MAR-2006 13:57	1.0	1.0			46117445001	ND	0.20	ug/L			
018	111549	SAMPLE	185679-002		111549	Filtra	22-MAR-2006 13:59	1.0	1.0			46117445001	ND	0.20	ug/L			
019	111549	CCV					22-MAR-2006 14:02	1.0	1.0	3	2.500	46117445001	2.530		ug/L	101		
020	111549	CCB					22-MAR-2006 14:03	1.0	1.0			46117445001	ND	0.20	ug/L			
021	111549	SAMPLE	185679-003		111549	Filtra	22-MAR-2006 14:05	1.0	1.0			46117445001	ND	0.20	ug/L			444
022	111549	SAMPLE	185679-004		111549	Filtra	22-MAR-2006 14:07	1.0	1.0			46117445001	ND	0.20	ug/L			
023	111549	SAMPLE	185679-005		111549	Filtra	22-MAR-2006 14:09	1.0	1.0			46117445001	ND	0.20	ug/L			
024	111549	SAMPLE	185679-006		111549	Filtra	22-MAR-2006 14:11	1.0	1.0			46117445001	ND	0.20	ug/L			
025	111549	SAMPLE	185679-007		111549	Filtra	22-MAR-2006 14:13	1.0	1.0			46117445001	ND	0.20	ug/L			
026	111549	SAMPLE	185679-008		111549	Filtra	22-MAR-2006 14:15	1.0	1.0			46117445001	ND	0.20	ug/L			
027	111549	SAMPLE	185679-017		111549	Filtra	22-MAR-2006 14:18	1.0	1.0			46117445001	ND	0.20	ug/L			
028	111549	SAMPLE	185679-019		111549	Filtra	22-MAR-2006 14:20	1.0	1.0			46117445001	ND	0.20	ug/L			
029	111549	SAMPLE	185681-002		111549	Water	22-MAR-2006 14:21	1.0	1.0			46117445001	3.7	0.20	ug/L			
030	111549	SAMPLE	185681-003		111549	Water	22-MAR-2006 14:23	1.0	1.0			46117445001	ND	0.20	ug/L			
031	111549	CCV					22-MAR-2006 14:25	1.0	1.0	4	5.000	46117445001	5.040		ug/L	101		
032	111549	CCB					22-MAR-2006 14:27	1.0	1.0			46117445001	ND	0.20	ug/L			
033	111549	SAMPLE	185690-001		111549	Filtra	22-MAR-2006 14:29	1.0	1.0			46117445001	ND	0.20	ug/L			
034	111549	SAMPLE	185691-001		111549	Filtra	22-MAR-2006 14:31	1.0	1.0			46117445001	ND	0.20	ug/L			
035	111549	SAMPLE	185692-001		111549	Filtra	22-MAR-2006 14:33	1.0	1.0			46117445001	ND	0.20	ug/L			
036	111549	SAMPLE	185693-001		111549	Filtra	22-MAR-2006 14:36	1.0	1.0			46117445001	ND	0.20	ug/L			
037	111549	SAMPLE	185693-002		111549	Filtra	22-MAR-2006 14:38	1.0	1.0			46117445001	ND	0.20	ug/L			
038	111549	SAMPLE	185693-003		111549	Filtra	22-MAR-2006 14:40	1.0	1.0			46117445001	ND	0.20	ug/L			
039	111549	CCV					22-MAR-2006 14:42	1.0	1.0	5	7.500	46117445001	7.610		ug/L	101		
040	111549	CCB					22-MAR-2006 14:44	1.0	1.0			46117445001	ND	0.20	ug/L			

Stds used: 1=S2973 2=S2975 3=S2976 4=S2977 5=S2978

Analyst: [signature] Date: 3/22/06

Curtis & Tompkins Laboratories Sample Preparation Summary 22-MAR-2006 10:26

Batch Number : 111549
Date Extracted: 22-MAR-2006
Extracted by : Kale Clauson
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : mL
Clean-up :

Spike #1 ID : S2973
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185679-001			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185679-002			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185679-003			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185679-004			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185679-005			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185679-006			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185679-007			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185679-008			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185679-017			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185679-019			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
185679-019			Treadwell & Rollo	Water	50	mL	50	1.000000	1					HG		
185681-002			Blasland, Bouck & Lee	Water	50	mL	50	1.000000	1					PP13/HG		
185681-003			Blasland, Bouck & Lee	Water	50	mL	50	1.000000	1					PP13/HG		
185681-005			Blasland, Bouck & Lee	Water	50	mL	50	1.000000	1					PP13/HG		
185690-001			CH2M Hill Constructors Inc.	Filtrate	50	mL	50	1.000000	1					T26/HG		
185691-001			Tetra Tech EC, Inc.	Filtrate	50	mL	50	1.000000	1					T26/HG		
185692-001			Tetra Tech EC, Inc.	Filtrate	50	mL	50	1.000000	1					T26/HG		
185693-001			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					T26/HG		
185693-002			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					T26/HG		
185693-003			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					T26/HG		
QC332499	BLANK			Water	50	mL	50	1.000000	1					HG		
QC332500	BS			Water	50	mL	50	1.000000	1		2.5			HG		
QC332501	BSD			Water	50	mL	50	1.000000	1		2.5			HG		
QC332502	MS	of 185681-005		Water	50	mL	50	1.000000	1		2.5			HG		
QC332503	MSD	of 185681-005		Water	50	mL	50	1.000000	1		2.5			HG		
QC332504	SER	of 185681-005		Water	50	mL	50	1.000000	1					HG		
QC332505	PDS	of 185681-005		Water	50	mL	50	1.000000	1					HG		

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Prep Chemist: _____ Reviewed By: _____ Date: 3/22/06

Relinquished By: _____ Received By: _____ Date: 3/22/06

Water Digestion for Mercury

LIMS Batch #: 111549
Date Digested: 22-MAR-06
Digested by: KMC

Digestion Method
☒ EPA 7470A/ EPA 245.1
☐ _____

Sample # and letter		Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
185679 - 019	E	50	50	N	WATER
185679 - 001	G				FILTRATE (F.F.)
002					
003					
004					
005					
006	C				
007					
008	G				
017	D				
019					
185681 - 002	A				WATER
003					
005 MSS					
185690 - 001	B				FILTRATE
185691 - 001	A				FILTRATE (F.F.)
185692 - 001					
185693 - 001	F				FILTRATE
002					
003					
BLANK					
BS					
BSD					
MS 185681 - 005					
MSD 185681 - 005					

	Reagent ID/ LIMS# / Time	Initials / Date
2.5 mL of spike solution was added to all spikes	S2973	KMC 3/22
ICAL Source WS#	S2973	
ICV / CCV WS#	S2975/76/77/78	
Digestion of Samples & Standards: Time ON / Temperature ON	1000 / 95°C	
Time OFF/ Temperature OFF	1200 / 95°C	
concentrated H_2SO_4	B03032	
concentrated HNO_3	B49053	
5% $KMnO_4$	K 031006	
5% $K_2S_2O_8$	K_2 021406	
NaCl.hydroxylamine hydrochloride	Hy 022806	
Stannous Chloride	$SnCl_2$ 031606	
☐ filtered thru' 0.45 um syringe filter		

3/22/06
Prep Chemist / Date

Continued from page _____
Continued on page _____

Carlyn 3/22/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 6010B Water
As of 04/29/06

Analyte	Units	MET01	MET07	MET09 A	MET09 R	MET08 A	MET08 R
Aluminum	ug/L	33	19		28		42
Antimony	ug/L	21	3.9	4.3		3.6	
Arsenic	ug/L	120	2.8	0.80		1.0	
Barium	ug/L	2.7	0.13	1.6		0.41	0.61
Beryllium	ug/L	0.45	0.48	0.68		0.21	
Cadmium	ug/L	2.2	0.29	1.7		0.55	
Calcium	ug/L	64	9.7		28		51
Chromium	ug/L	3.2	0.50	1.8		0.56	
Cobalt	ug/L	7.0	0.68	1.5		0.46	
Copper	ug/L	2.6	0.62	2.0		0.71	
Iron	ug/L	22	24		39		17
Lead	ug/L	71	1.9	0.46		0.57	
Magnesium	ug/L	47	16		95		15
Manganese	ug/L	2.6	0.57	1.8		0.60	1.2
Molybdenum	ug/L	8.3	2.4	1.6		0.43	
Nickel	ug/L	15	0.74	2.0		0.92	
Potassium	ug/L	300			180		130
Selenium	ug/L	85	4.2	2.6		1.6	
Silver	ug/L	3.5	0.77	1.2		1.4	
Sodium	ug/L	100			70		39
Thallium	ug/L	200	3.5	1.6		0.93	
Vanadium	ug/L	2.4	0.57	1.5		0.42	
Zinc	ug/L	5.8	1.1	7.7		1.5	1.6
Boron	ug/L	52		12		14	
Tin	ug/L	22		14		4.4	
Titanium	ug/L	2.1		3.5		1.0	1.3

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 6020 Water 200.8
As of 04/29/06

Analyte	Units	MET06 A	MET06 E	MET06 H	MET05
Aluminum	ug/L	0.40			1.0
Antimony	ug/L	0.0093			0.078
Arsenic	ug/L		0.034		0.65
Barium	ug/L	0.023			0.23
Beryllium	ug/L	0.017			0.055
Cadmium	ug/L	0.0058			0.14
Calcium	ug/L	5.6			15
Chromium	ug/L		0.038		0.085
Cobalt	ug/L		0.0072		0.034
Copper	ug/L		0.028		0.31
Iron	ug/L			1.9	4.2
Lead	ug/L	0.013			0.24
Magnesium	ug/L	0.73			2.1
Manganese	ug/L		0.011		0.082
Molybdenum	ug/L	0.0063			0.062
Nickel	ug/L		0.029		0.16
Potassium	ug/L	5.3			8.9
Selenium	ug/L			0.027	0.35
Silver	ug/L	0.0079			0.041
Sodium	ug/L		2.7		15
Thallium	ug/L	0.030			0.073
Vanadium	ug/L		0.026		0.15
Zinc	ug/L		0.062		0.52

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 7470A Water
As of 04/29/06

Analyte	Units	MET04
Mercury	ug/L	0.080

GENERAL CHEMISTRY

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Batch#:	111885
Units:	mg/L	Received:	03/21/06
Diln Fac:	1.000	Analyzed:	03/30/06

Field ID: LF6GW105 Lab ID: 185679-006
Type: SAMPLE Sampled: 03/20/06

Analyte	Result	RL
Alkalinity, Bicarbonate	310	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	310	1.0

Field ID: LF6GW106 Lab ID: 185679-007
Type: SAMPLE Sampled: 03/20/06

Analyte	Result	RL
Alkalinity, Bicarbonate	340	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	340	1.0

Field ID: 1349MW105 Lab ID: 185679-008
Type: SAMPLE Sampled: 03/20/06

Analyte	Result	RL
Alkalinity, Bicarbonate	300	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	300	1.0

Field ID: 600GW107 Lab ID: 185679-009
Type: SAMPLE Sampled: 03/20/06

Analyte	Result	RL
Alkalinity, Bicarbonate	590	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	590	1.0

Field ID: LF01GW06 Lab ID: 185679-010
Type: SAMPLE Sampled: 03/20/06

Analyte	Result	RL
Alkalinity, Bicarbonate	120	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	120	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Batch#:	111885
Units:	mg/L	Received:	03/21/06
Diln Fac:	1.000	Analyzed:	03/30/06

Field ID: LF02GW04 Lab ID: 185679-011
Type: SAMPLE Sampled: 03/20/06

Analyte	Result	RL
Alkalinity, Bicarbonate	150	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	150	1.0

Field ID: LF01GW07 Lab ID: 185679-012
Type: SAMPLE Sampled: 03/20/06

Analyte	Result	RL
Alkalinity, Bicarbonate	260	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	260	1.0

Field ID: LF01GW04 Lab ID: 185679-013
Type: SAMPLE Sampled: 03/20/06

Analyte	Result	RL
Alkalinity, Bicarbonate	160	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	160	1.0

Field ID: LF01GW03 Lab ID: 185679-014
Type: SAMPLE Sampled: 03/20/06

Analyte	Result	RL
Alkalinity, Bicarbonate	380	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	380	1.0

Field ID: LF01GW05 Lab ID: 185679-015
Type: SAMPLE Sampled: 03/20/06

Analyte	Result	RL
Alkalinity, Bicarbonate	240	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	240	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Batch#:	111885
Units:	mg/L	Received:	03/21/06
Diln Fac:	1.000	Analyzed:	03/30/06

Field ID: LF02GW02 Lab ID: 185679-016
Type: SAMPLE Sampled: 03/20/06

Analyte	Result	RL
Alkalinity, Bicarbonate	480	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	480	1.0

Field ID: LF10GW01 Lab ID: 185679-017
Type: SAMPLE Sampled: 03/20/06

Analyte	Result	RL
Alkalinity, Bicarbonate	250	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	250	1.0

Field ID: LF5SP100 Lab ID: 185679-019
Type: SAMPLE Sampled: 03/21/06

Analyte	Result	RL
Alkalinity, Bicarbonate	110	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	110	1.0

Field ID: 610SP01 Lab ID: 185679-020
Type: SAMPLE Sampled: 03/21/06

Analyte	Result	RL
Alkalinity, Bicarbonate	470	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	470	1.0

Field ID: 610SP02 Lab ID: 185679-021
Type: SAMPLE Sampled: 03/21/06

Analyte	Result	RL
Alkalinity, Bicarbonate	450	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	450	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Batch#:	111885
Units:	mg/L	Received:	03/21/06
Diln Fac:	1.000	Analyzed:	03/30/06

Type: BLANK Lab ID: QC333828

Analyte	Result	RL
Alkalinity, Bicarbonate	ND	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Units:	mg/L
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC333829	Batch#:	111885
Matrix:	Water	Analyzed:	03/30/06

Spiked	Result	%REC	Limits
200.0	189.7	95	90-110

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Diln Fac:	1.000
Field ID:	LF01GW05	Batch#:	111885
MSS Lab ID:	185679-015	Sampled:	03/20/06
Matrix:	Water	Received:	03/21/06
Units:	mg/L	Analyzed:	03/30/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC333830	239.9	200.0	409.2	85	69-112		
MSD	QC333831		200.0	401.8	81	69-112	2	25

RPD= Relative Percent Difference

Analysis: **Alkalinity** Analysis Date: **03/30/06** H_2SO_4 Normality = **0.0186**

Method: **EPA 310.1** / SMWW 2320B Batch No: **111885** conc.(mg/L) Na_2CO_3 for QC = **200**

SOP#: Alkalinity_rv 6.doc Analyst: JKS

SAMPLE	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alkalinity Volume (4.5-4.2) (mL)	**Low Alkalinity** as $CaCO_3$ (mg/L)	Reporting Limit (mg/L)
185679-6	6.92	25	0.00	8.45	314.34		n/a	1.0
185679-7	6.86	25	0.00	9.10	338.52		n/a	1.0
185679-8	7.83	25	0.00	8.05	299.46		n/a	1.0
185679-9	7.15	25	0.00	15.80	587.76		n/a	1.0
185679-10	6.74	25	0.00	3.30	122.76		n/a	1.0
185679-11	6.51	25	0.00	3.95	146.94		n/a	1.0
185679-12	7.06	25	0.00	6.90	256.68		n/a	1.0
185679-13	7.11	25	0.00	4.40	163.68		n/a	1.0
185679-14	6.77	25	0.00	10.10	375.72		n/a	1.0
185679-15	6.86	25	0.00	6.45	239.94		n/a	1.0
185679-16	7.77	25	0.00	12.95	481.74		n/a	1.0
185679-17	7.37	25	0.00	6.80	252.96		n/a	1.0
185679-19	6.99	25	0.00	2.95	109.74		n/a	1.0
185679-20	7.62	25	0.00	12.70	472.44		n/a	1.0
185679-21	7.51	25	0.00	12.20	453.84		n/a	1.0

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QC DATA	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alk Vol (mL)	**Low Alk** as $CaCO_3$ (mg/L)	RL (mg/L)	% Rec.	% RPD
MB	4.93	25	0.00	0.00	ND			1.0		
LCS	9.88	25	2.05	5.10	189.72			1.0	95	
185679-15	6.86	25	0.00	6.45	239.94		n/a	1.0		
MS	7.46	25	0.00	11.00	409.20			1.0	85	
MSD	7.53	25	0.00	10.80	401.76			1.0	81	2

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	25	80 - 120

Reviewed by/ Date: RSchiffa 3-31-06

Analysis: **Alkalinity** Analysis Date: 03/30/06 H_2SO_4 Normality = 0.0186

Method: **EPA 310.1** Batch No: 111885 Analyst: JKS

SAMPLE	(P)	(T-P)	Total Alkalinty as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity	Carbonate Alkalinity	Hydroxide Alkalinity
				as $CaCO_3$ (mg/L)		
185679-6	0.0	314.3	314.34	314.340	0.000	0.000
185679-7	0.0	338.5	338.52	338.520	0.000	0.000
185679-8	0.0	299.5	299.46	299.460	0.000	0.000
185679-9	0.0	587.8	587.76	587.760	0.000	0.000
185679-10	0.0	122.8	122.76	122.760	0.000	0.000
185679-11	0.0	146.9	146.94	146.940	0.000	0.000
185679-12	0.0	256.7	256.68	256.680	0.000	0.000
185679-13	0.0	163.7	163.68	163.680	0.000	0.000
185679-14	0.0	375.7	375.72	375.720	0.000	0.000
185679-15	0.0	239.9	239.94	239.940	0.000	0.000
185679-16	0.0	481.7	481.74	481.740	0.000	0.000
185679-17	0.0	253.0	252.96	252.960	0.000	0.000
185679-19	0.0	109.7	109.74	109.740	0.000	0.000
185679-20	0.0	472.4	472.44	472.440	0.000	0.000
185679-21	0.0	453.8	453.84	453.840	0.000	0.000

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P: Phenolphthalein Alkalinity (using volume to pH 8.3)
T-P: Total Alkalinity minus Phenolphthalein Alkalinity

Carbonate Alkalinity = 2x the smaller of P or (T-P)
Bicarbonate Alkalinity = (T-2P) when P < (T-P)
Hydroxide Alkalinity = (2P-T) when (T-P) < P

Analysis: **Alkalinity** Analysis Date: 03/30/06 H_2SO_4 Normality = 0.0186

Method: **EPA 310.1** Batch No: 111885 Analyst: JKS

SAMPLE	**Total Alkalinty** as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity **as HCO_3^- (mg/L)**	Carbonate Alkalinity **as CO_3^{2-} (mg/L)**	Hydroxide Alkalinity **as OH^- (mg/L)**
185679-6	314.34	383.26	0.000	0.00
185679-7	338.52	412.74	0.000	0.00
185679-8	299.46	365.12	0.000	0.00
185679-9	587.76	716.62	0.000	0.00
185679-10	122.76	149.67	0.000	0.00
185679-11	146.94	179.16	0.000	0.00
185679-12	256.68	312.96	0.000	0.00
185679-13	163.68	199.57	0.000	0.00
185679-14	375.72	458.10	0.000	0.00
185679-15	239.94	292.55	0.000	0.00
185679-16	481.74	587.36	0.000	0.00
185679-17	252.96	308.42	0.000	0.00
185679-19	109.74	133.80	0.000	0.00
185679-20	472.44	576.02	0.000	0.00
185679-21	453.84	553.34	0.000	0.00

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td.

Alkalinity Benchbook | EPA 310.1 / SMWW 2320B | Curtis & Tompkins, Ltd.

LIMS Batch #: 111885
Matrix: Water

Date: 3-30-6
Time: 17:30

Benchbook#: **BK 2255**
Page: **25**

CAL-ph 4.0: SS#: 055514
CAL-ph 7.0: SS#: 5177
CAL-ph 10.0: SS#: 51169
Slope: 99.1
(slope limits: 92 - 102)

$CaCO_3$ Vol (mgL) Spiked: 5ml
$CaCO_3$ Conc (mg/L): 1000
$CaCO_3$ WS#: 51576
H_2SO_4 Normality: 0.0186
H_2SO_4 Reagent ID: 7-27-6

	Sample # / Letter	Sample Vol. Titrated (mL)	Initial pH (S.U.)	H_2SO_4 Vol (mL) to pH 8.3	H_2SO_4 Vol (mL) to pH 4.5 *	Low Alk TotalVol (mL)	Comments
1	MB	25	4.93	—	<0.05		
	LCS		9.88	2.05	5.10		
	185679-6 E		6.92	—	8.45		
	-7 E		6.86	—	9.10		
5	-8 H		7.83	—	8.05		
	-9 K		7.15	—	15.80		
	-10 C		6.74	—	3.30		
	-11 H		6.51	—	3.95		
	-12 C		7.06	—	6.90		
10	-13 C		7.11	—	4.40		
	-14 C		6.77	—	10.10		
	-15 C		6.86	—	6.45		
	-16 C		7.77	—	12.95		
	-17 E		7.37	—	6.80		
15	-19 F		6.99	—	2.95		
	-20 I		7.62	—	12.70		
	-21 I		7.51	—	12.20		
	-15 C MS		7.46	—	11.00		
	-15 C MSD		7.53	—	10.80		
20							

* If Acid Vol to 4.5 is < 2.0mL, redo using 100mL sample volume. If still < 2.0mL, go on to Low Alkalinity.

3-30-6
Analyst / Date

RSCiffa 3/30/06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111885
Date Started: 30-MAR-2006
Batched by : Jason K. Spence

Analysis : ALKALINITY
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185679-006			Treadwell & Rollo	Water	ALKALINITY	31-MAR-2006
185679-007			Treadwell & Rollo	Water	ALKALINITY	31-MAR-2006
185679-008			Treadwell & Rollo	Water	ALKALINITY	31-MAR-2006
185679-009			Treadwell & Rollo	Water	ALKALINITY	31-MAR-2006
185679-010			Treadwell & Rollo	Water	ALKALINITY	31-MAR-2006
185679-011			Treadwell & Rollo	Water	ALKALINITY	31-MAR-2006
185679-012			Treadwell & Rollo	Water	ALKALINITY	31-MAR-2006
185679-013			Treadwell & Rollo	Water	ALKALINITY	31-MAR-2006
185679-014			Treadwell & Rollo	Water	ALKALINITY	31-MAR-2006
185679-015			Treadwell & Rollo	Water	ALKALINITY	31-MAR-2006
185679-016			Treadwell & Rollo	Water	ALKALINITY	31-MAR-2006
185679-017			Treadwell & Rollo	Water	ALKALINITY	31-MAR-2006
185679-019			Treadwell & Rollo	Water	ALKALINITY	31-MAR-2006
185679-020			Treadwell & Rollo	Water	ALKALINITY	31-MAR-2006
185679-021			Treadwell & Rollo	Water	ALKALINITY	31-MAR-2006
QC333828	BLANK			Water	ALKALINITY	
QC333829	LCS			Water	ALKALINITY	
QC333830	MS	of 185679-015		Water	ALKALINITY	
QC333831	MSD	of 185679-015		Water	ALKALINITY	

Curtis & Tompkins, Ltd.

Chloride

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Units:	mg/L
Matrix:	Water	Received:	03/21/06

Field ID	Type	Lab ID	Result	RL	Diln Fac	Batch#	Sampled	Analyzed
LF6GW105	SAMPLE	185679-006	95	5.0	25.00	111579	03/20/06 12:50	03/22/06 06:04
LF6GW106	SAMPLE	185679-007	90	5.0	25.00	111579	03/20/06 13:48	03/22/06 06:23
1349MW105	SAMPLE	185679-008	450	10	50.00	111579	03/20/06 14:40	03/22/06 06:41
600GW107	SAMPLE	185679-009	39	5.0	25.00	111579	03/20/06 15:50	03/22/06 06:59
LF01GW06	SAMPLE	185679-010	1.5	0.20	1.000	111579	03/20/06 14:30	03/21/06 19:01
LF02GW04	SAMPLE	185679-011	46	1.0	5.000	111579	03/20/06 15:50	03/22/06 05:09
LF01GW07	SAMPLE	185679-012	52	2.0	10.00	111579	03/20/06 13:40	03/22/06 07:36
LF01GW04	SAMPLE	185679-013	71	2.0	10.00	111579	03/20/06 13:00	03/22/06 10:22
LF01GW03	SAMPLE	185679-014	86	5.0	25.00	111579	03/20/06 12:05	03/22/06 09:27
LF01GW05	SAMPLE	185679-015	65	2.0	10.00	111579	03/20/06 11:20	03/22/06 09:45
LF02GW02	SAMPLE	185679-016	160	5.0	25.00	111579	03/20/06 10:35	03/22/06 10:04
LF10GW01	SAMPLE	185679-017	86	2.0	10.00	111579	03/20/06 09:00	03/22/06 07:55
LF5SP100	SAMPLE	185679-019	55	1.0	5.000	111579	03/21/06 09:10	03/22/06 10:40
610SP01	SAMPLE	185679-020	99	5.0	25.00	111578	03/21/06 10:10	03/21/06 19:11
610SP02	SAMPLE	185679-021	120	5.0	25.00	111578	03/21/06 10:30	03/21/06 20:04
	BLANK	QC332605	ND	0.20	1.000	111578		03/21/06 13:18
	BLANK	QC332611	ND	0.20	1.000	111579		03/21/06 13:19

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Fluoride

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Diln Fac:	1.000
Matrix:	Water	Received:	03/21/06
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Batch#	Sampled	Analyzed
LF6GW105	SAMPLE	185679-006	ND	0.10	111579	03/20/06 12:50	03/21/06 22:24
LF6GW106	SAMPLE	185679-007	ND	0.10	111579	03/20/06 13:48	03/21/06 22:06
1349MW105	SAMPLE	185679-008	0.29	0.10	111579	03/20/06 14:40	03/22/06 00:33
600GW107	SAMPLE	185679-009	ND	0.10	111579	03/20/06 15:50	03/21/06 23:56
LF01GW06	SAMPLE	185679-010	ND	0.10	111579	03/20/06 14:30	03/21/06 19:01
LF02GW04	SAMPLE	185679-011	ND	0.10	111579	03/20/06 15:50	03/21/06 19:20
LF01GW07	SAMPLE	185679-012	ND	0.10	111579	03/20/06 13:40	03/21/06 21:10
LF01GW04	SAMPLE	185679-013	ND	0.10	111579	03/20/06 13:00	03/21/06 20:52
LF01GW03	SAMPLE	185679-014	ND	0.10	111579	03/20/06 12:05	03/21/06 21:47
LF01GW05	SAMPLE	185679-015	ND	0.10	111579	03/20/06 11:20	03/21/06 21:29
LF02GW02	SAMPLE	185679-016	ND	0.10	111579	03/20/06 10:35	03/22/06 00:14
LF10GW01	SAMPLE	185679-017	ND	0.10	111579	03/20/06 09:00	03/21/06 20:34
LF5SP100	SAMPLE	185679-019	ND	0.10	111579	03/21/06 09:10	03/21/06 19:57
610SP01	SAMPLE	185679-020	0.24	0.10	111578	03/21/06 10:10	03/21/06 16:51
610SP02	SAMPLE	185679-021	0.26	0.10	111578	03/21/06 10:30	03/21/06 17:09
	BLANK	QC332605	ND	0.10	111578		03/21/06 13:18
	BLANK	QC332611	ND	0.10	111579		03/21/06 13:19

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrate Nitrogen

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Units:	mg/L
Matrix:	Water	Received:	03/21/06

Field ID	Type	Lab ID	Result	RL	Diln Fac	Batch#	Sampled	Analyzed
LF6GW105	SAMPLE	185679-006	4.6	0.05	1.000	111579	03/20/06 12:50	03/21/06 22:24
LF6GW106	SAMPLE	185679-007	4.4	0.05	1.000	111579	03/20/06 13:48	03/21/06 22:06
1349MW105	SAMPLE	185679-008	ND	0.05	1.000	111579	03/20/06 14:40	03/22/06 00:33
600GW107	SAMPLE	185679-009	0.29	0.05	1.000	111579	03/20/06 15:50	03/21/06 23:56
LF01GW06	SAMPLE	185679-010	0.16	0.05	1.000	111579	03/20/06 14:30	03/21/06 19:01
LF02GW04	SAMPLE	185679-011	8.2	0.25	5.000	111579	03/20/06 15:50	03/22/06 05:09
LF01GW07	SAMPLE	185679-012	7.3	0.50	10.00	111579	03/20/06 13:40	03/22/06 07:36
LF01GW04	SAMPLE	185679-013	9.2	0.50	10.00	111579	03/20/06 13:00	03/22/06 10:22
LF01GW03	SAMPLE	185679-014	4.9	1.3	25.00	111579	03/20/06 12:05	03/22/06 09:27
LF01GW05	SAMPLE	185679-015	1.8	0.05	1.000	111579	03/20/06 11:20	03/21/06 21:29
LF02GW02	SAMPLE	185679-016	ND	0.05	1.000	111579	03/20/06 10:35	03/22/06 00:14
LF10GW01	SAMPLE	185679-017	8.8	0.50	10.00	111579	03/20/06 09:00	03/22/06 07:55
LF5SP100	SAMPLE	185679-019	0.31	0.05	1.000	111579	03/21/06 09:10	03/21/06 19:57
610SP01	SAMPLE	185679-020	ND	0.05	1.000	111578	03/21/06 10:10	03/21/06 16:51
610SP02	SAMPLE	185679-021	ND	0.05	1.000	111578	03/21/06 10:30	03/21/06 17:09
	BLANK	QC332605	ND	0.05	1.000	111578		03/21/06 13:18
	BLANK	QC332611	ND	0.05	1.000	111579		03/21/06 13:19

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrite Nitrogen

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Diln Fac:	1.000
Matrix:	Water	Received:	03/21/06
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Batch#	Sampled	Analyzed
LF6GW105	SAMPLE	185679-006	ND	0.05	111579	03/20/06 12:50	03/21/06 22:24
LF6GW106	SAMPLE	185679-007	ND	0.05	111579	03/20/06 13:48	03/21/06 22:06
1349MW105	SAMPLE	185679-008	ND	0.05	111579	03/20/06 14:40	03/22/06 00:33
600GW107	SAMPLE	185679-009	ND	0.05	111579	03/20/06 15:50	03/21/06 23:56
LF01GW06	SAMPLE	185679-010	ND	0.05	111579	03/20/06 14:30	03/21/06 19:01
LF02GW04	SAMPLE	185679-011	ND	0.05	111579	03/20/06 15:50	03/21/06 19:20
LF01GW07	SAMPLE	185679-012	ND	0.05	111579	03/20/06 13:40	03/21/06 21:10
LF01GW04	SAMPLE	185679-013	ND	0.05	111579	03/20/06 13:00	03/21/06 20:52
LF01GW03	SAMPLE	185679-014	ND	0.05	111579	03/20/06 12:05	03/21/06 21:47
LF01GW05	SAMPLE	185679-015	ND	0.05	111579	03/20/06 11:20	03/21/06 21:29
LF02GW02	SAMPLE	185679-016	ND	0.05	111579	03/20/06 10:35	03/22/06 00:14
LF10GW01	SAMPLE	185679-017	ND	0.05	111579	03/20/06 09:00	03/21/06 20:34
LF5SP100	SAMPLE	185679-019	ND	0.05	111579	03/21/06 09:10	03/21/06 19:57
610SP01	SAMPLE	185679-020	ND	0.05	111578	03/21/06 10:10	03/21/06 16:51
610SP02	SAMPLE	185679-021	ND	0.05	111578	03/21/06 10:30	03/21/06 17:09
	BLANK	QC332605	ND	0.05	111578		03/21/06 13:18
	BLANK	QC332611	ND	0.05	111579		03/21/06 13:19

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Sulfate

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Units:	mg/L
Matrix:	Water	Received:	03/21/06

Field ID	Type	Lab ID	Result	RL	Diln Fac	Batch#	Sampled	Analyzed
LF6GW105	SAMPLE	185679-006	110	13	25.00	111579	03/20/06 12:50	03/22/06 06:04
LF6GW106	SAMPLE	185679-007	150	13	25.00	111579	03/20/06 13:48	03/22/06 06:23
1349MW105	SAMPLE	185679-008	76	25	50.00	111579	03/20/06 14:40	03/22/06 06:41
600GW107	SAMPLE	185679-009	29	0.50	1.000	111579	03/20/06 15:50	03/21/06 23:56
LF01GW06	SAMPLE	185679-010	1.2	0.50	1.000	111579	03/20/06 14:30	03/21/06 19:01
LF02GW04	SAMPLE	185679-011	24	0.50	1.000	111579	03/20/06 15:50	03/21/06 19:20
LF01GW07	SAMPLE	185679-012	45	0.50	1.000	111579	03/20/06 13:40	03/21/06 21:10
LF01GW04	SAMPLE	185679-013	46	0.50	1.000	111579	03/20/06 13:00	03/21/06 20:52
LF01GW03	SAMPLE	185679-014	37	0.50	1.000	111579	03/20/06 12:05	03/21/06 21:47
LF01GW05	SAMPLE	185679-015	42	0.50	1.000	111579	03/20/06 11:20	03/21/06 21:29
LF02GW02	SAMPLE	185679-016	72	13	25.00	111579	03/20/06 10:35	03/22/06 10:04
LF10GW01	SAMPLE	185679-017	49	0.50	1.000	111579	03/20/06 09:00	03/21/06 20:34
LF5SP100	SAMPLE	185679-019	24	0.50	1.000	111579	03/21/06 09:10	03/21/06 19:57
610SP01	SAMPLE	185679-020	62	13	25.00	111578	03/21/06 10:10	03/21/06 19:11
610SP02	SAMPLE	185679-021	73	13	25.00	111578	03/21/06 10:30	03/21/06 20:04
	BLANK	QC332605	ND	0.50	1.000	111578		03/21/06 13:18
	BLANK	QC332611	ND	0.50	1.000	111579		03/21/06 13:19

ND= Not Detected
RL= Reporting Limit

Batch QC Report

Chloride

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Units:	mg/L
Matrix:	Water	Received:	03/21/06

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Sampled	Analyzed
	BS		QC332606		4.000	3.937	98	80-120			1.000	111578		03/21/06 13:35
	BSD		QC332607		4.000	3.866	97	80-120	2	20	1.000	111578		03/21/06 13:53
610SP01	MS	185679-020	QC332608	98.87	50.00	149.4	101	80-120			25.00	111578	03/21/06 10:10	03/21/06 19:29
610SP01	MSD	185679-020	QC332609		50.00	148.6	100	80-120	1	25	25.00	111578	03/21/06 10:10	03/21/06 19:46
ZZZZZZZZZZ	SSPIKE	185664-002	QC332610	3,544 >LR	20.00	3,556 >LR	56 NM	80-120			10.00	111578	03/20/06 15:00	03/21/06 16:31
	BS		QC332612		4.000	3.952	99	80-120			1.000	111579		03/21/06 13:37
	BSD		QC332613		4.000	3.856	96	80-120	2	20	1.000	111579		03/21/06 13:56
LF02GW04	MS	185679-011	QC332614	46.17	10.00	56.24	101 NM	80-120			5.000	111579	03/20/06 15:50	03/22/06 05:27
LF02GW04	MSD	185679-011	QC332615		10.00	56.25	101 NM	80-120	0	25	5.000	111579	03/20/06 15:50	03/22/06 05:46

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NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

31.0

Curtis & Tompkins, Ltd.

Batch QC Report

Fluoride

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Units:	mg/L
Matrix:	Water	Received:	03/21/06

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Sampled	Analyzed
	BS		QC332606		2.000	1.891	95	80-120			1.000	111578		03/21/06 13:35
	BSD		QC332607		2.000	1.860	93	80-120	2	20	1.000	111578		03/21/06 13:53
610SP01	MS	185679-020	QC332608	0.2411	25.00	23.92	95	77-120			25.00	111578	03/21/06 10:10	03/21/06 19:29
610SP01	MSD	185679-020	QC332609		25.00	23.91	95	77-120	0	20	25.00	111578	03/21/06 10:10	03/21/06 19:46
ZZZZZZZZZZ	SSPIKE	185664-002	QC332610	0.5052	10.00	10.35	98	77-120			10.00	111578	03/20/06 15:00	03/21/06 16:31
	BS		QC332612		2.000	2.004	100	80-120			1.000	111579		03/21/06 13:37
	BSD		QC332613		2.000	1.927	96	80-120	4	20	1.000	111579		03/21/06 13:56
LF02GW04	MS	185679-011	QC332614	0.09626	5.000	4.844	95	77-120			5.000	111579	03/20/06 15:50	03/22/06 05:27
LF02GW04	MSD	185679-011	QC332615		5.000	4.803	94	77-120	1	20	5.000	111579	03/20/06 15:50	03/22/06 05:46

468

RPD= Relative Percent Difference

33.0

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrate Nitrogen

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Units:	mg/L
Matrix:	Water	Received:	03/21/06

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Sampled	Analyzed
	BS		QC332606		1.000	1.004	100	80-120			1.000	111578		03/21/06 13:35
	BSD		QC332607		1.000	0.9989	100	80-120	0	20	1.000	111578		03/21/06 13:53
610SP01	MS	185679-020	QC332608	<0.01819	12.50	12.52	100	80-120			25.00	111578	03/21/06 10:10	03/21/06 19:29
610SP01	MSD	185679-020	QC332609		12.50	12.51	100	80-120	0	25	25.00	111578	03/21/06 10:10	03/21/06 19:46
ZZZZZZZZZZ	SSPIKE	185664-002	QC332610	<0.1819	5.000	5.496	110	80-120			10.00	111578	03/20/06 15:00	03/21/06 16:31
	BS		QC332612		1.000	0.9833	98	80-120			1.000	111579		03/21/06 13:37
	BSD		QC332613		1.000	1.002	100	80-120	2	20	1.000	111579		03/21/06 13:56
LF02GW04	MS	185679-011	QC332614	8.216	2.500	10.73	101	80-120			5.000	111579	03/20/06 15:50	03/22/06 05:27
LF02GW04	MSD	185679-011	QC332615		2.500	10.82	104	80-120	1	25	5.000	111579	03/20/06 15:50	03/22/06 05:46

469

RPD= Relative Percent Difference

35.0

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrite Nitrogen

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Units:	mg/L
Matrix:	Water	Received:	03/21/06

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Sampled	Analyzed
	BS		QC332606		1.000	0.9461	95	80-120			1.000	111578		03/21/06 13:35
	BSD		QC332607		1.000	0.9496	95	80-120	0	20	1.000	111578		03/21/06 13:53
610SP01	MS	185679-020	QC332608	0.03721	12.50	12.27	98	80-120			25.00	111578	03/21/06 10:10	03/21/06 19:29
610SP01	MSD	185679-020	QC332609		12.50	12.30	98	80-120	0	25	25.00	111578	03/21/06 10:10	03/21/06 19:46
ZZZZZZZZZZ	SSPIKE	185664-002	QC332610	<0.06664	5.000	4.765	95	80-120			10.00	111578	03/20/06 15:00	03/21/06 16:31
	BS		QC332612		1.000	1.001	100	80-120			1.000	111579		03/21/06 13:37
	BSD		QC332613		1.000	0.9574	96	80-120	4	20	1.000	111579		03/21/06 13:56
LF02GW04	MS	185679-011	QC332614	<0.01206	2.500	2.500	100	80-120			5.000	111579	03/20/06 15:50	03/22/06 05:27
LF02GW04	MSD	185679-011	QC332615		2.500	2.527	101	80-120	1	25	5.000	111579	03/20/06 15:50	03/22/06 05:46

470

RPD= Relative Percent Difference

37.0

Curtis & Tompkins, Ltd.

Batch QC Report

Sulfate

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Units:	mg/L
Matrix:	Water	Received:	03/21/06

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Sampled	Analyzed
	BS		QC332606		10.00	9.994	100	80-120			1.000	111578		03/21/06 13:35
	BSD		QC332607		10.00	9.777	98	80-120	2	20	1.000	111578		03/21/06 13:53
610SP01	MS	185679-020	QC332608	61.80	125.0	188.3	101	80-120			25.00	111578	03/21/06 10:10	03/21/06 19:29
610SP01	MSD	185679-020	QC332609		125.0	186.8	100	80-120	1	25	25.00	111578	03/21/06 10:10	03/21/06 19:46
ZZZZZZZZZZ	SSPIKE	185664-002	QC332610	1.179	50.00	50.39	98	80-120			10.00	111578	03/20/06 15:00	03/21/06 16:31
	BS		QC332612		10.00	10.00	100	80-120			1.000	111579		03/21/06 13:37
	BSD		QC332613		10.00	9.777	98	80-120	2	20	1.000	111579		03/21/06 13:56
LF02GW04	MS	185679-011	QC332614	24.01	25.00	49.13	100	80-120			5.000	111579	03/20/06 15:50	03/22/06 05:27
LF02GW04	MSD	185679-011	QC332615		25.00	49.26	101	80-120	0	25	5.000	111579	03/20/06 15:50	03/22/06 05:46

471

RPD= Relative Percent Difference

39.0

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185679 IC Water: EPA 300.0

Inst : IC01
Calnum : 606046871001
Units : mg/L

Date : 01-FEB-2006 13:28
X Axis : A

Reviewer: MCH
Inj Vol : 25 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	032_2.000	606046871002	L1	01-FEB-2006 13:28	S1888 (500X)
L2	032_3.000	606046871003	L2	01-FEB-2006 13:46	S1888 (100X)
L3	032_4.000	606046871004	L3	01-FEB-2006 14:03	S1888 (25X)
L4	032_5.000	606046871005	L4	01-FEB-2006 14:21	S1888 (10X)
L5	032_6.000	606046871006	L5	01-FEB-2006 14:38	S1888 (5X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Fluoride	0.2528	0.2613	0.2883	0.2940	0.3105	QORG		0.27855	0.003187	0.2814	1.000	0.990	
Chloride	0.1745	0.1698	0.1822	0.1890	0.2055	QORG		0.17357	0.001594	0.1842	1.000	0.990	
Nitrogen, Nitrite	0.3864	0.3575	0.3722	0.3676	0.3830	QORG		0.35745	0.005065	0.3733	1.000	0.990	
Nitrogen, Nitrate	0.4498	0.4302	0.4579	0.4590	0.4824	QORG		0.44011	0.008413	0.4558	1.000	0.990	
Sulfate	0.1233	0.1237	0.1314	0.1331	0.1412	QORG		0.12610	3.005E-4	0.1305	1.000	0.990	

472

QORG=Quadratic regression forced through origin

Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

606046871001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 300.0

Inst : IC01
Calnum : 606046871001 Date : 01-FEB-2006 13:28 Inj Vol: 25 uL

mcs 2/2/06

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	032_2.000	606046871002	L1	01-FEB-2006 13:28	S1888 (500X)
L2	032_3.000	606046871003	L2	01-FEB-2006 13:46	S1888 (100X)
L3	032_4.000	606046871004	L3	01-FEB-2006 14:03	S1888 (25X)
L4	032_5.000	606046871005	L4	01-FEB-2006 14:21	S1888 (10X)
L5	032_6.000	606046871006	L5	01-FEB-2006 14:38	S1888 (5X)

Analyte	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MnR^2	Flags
Fluoride	0.2528	0.2613	0.2883	0.2940	0.3105	QORG	A		0.278548	0.003187	mg/L	0.2814	1.000	0.990	
Chloride	0.1745	0.1698	0.1822	0.1890	0.2055	QORG	A		0.173571	0.001594	mg/L	0.1842	1.000	0.990	
Nitrogen, Nitrite	0.3864	0.3575	0.3722	0.3676	0.3830	QORG	A		0.357447	0.005065	mg/L	0.3733	1.000	0.990	
Bromide	0.0765	0.0774	0.0807	0.0787	0.0812	QORG	A		0.077484	1.818E-4	mg/L	0.0789	1.000	0.990	
Nitrogen, Nitrate	0.4498	0.4302	0.4579	0.4590	0.4824	QORG	A		0.440113	0.008413	mg/L	0.4558	1.000	0.990	
Orthophosphate (as P)	0.1717	0.2172	0.2560	0.2220	0.2112	QORG	A		0.242367	-0.00158	mg/L	0.2156	0.999	0.990	NT
Sulfate	0.1233	0.1237	0.1314	0.1331	0.1412	QORG	A		0.126102	3.005E-4	mg/L	0.1305	1.000	0.990	

MAS 2/1/06

473

NT = non-target

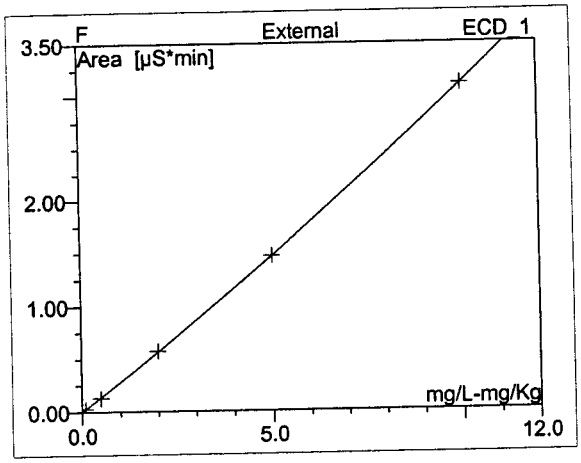
QORG=Quadratic regression forced through origin

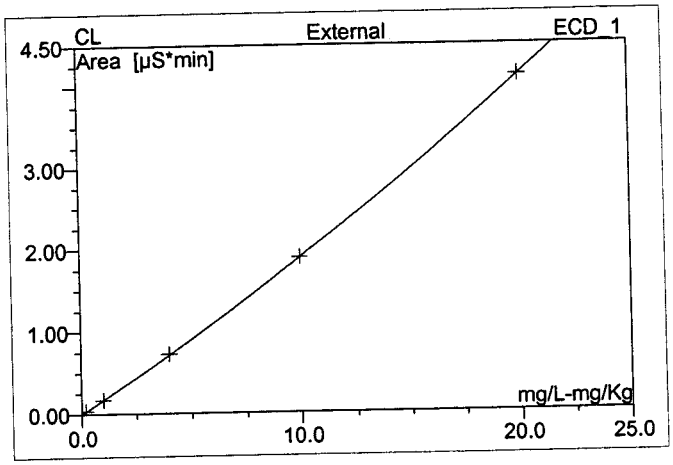
Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

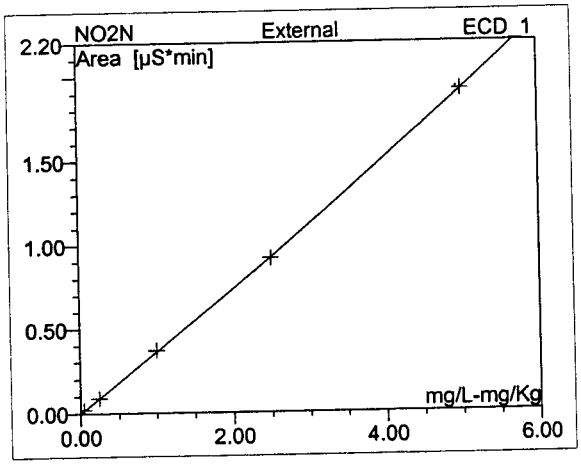
606046871001

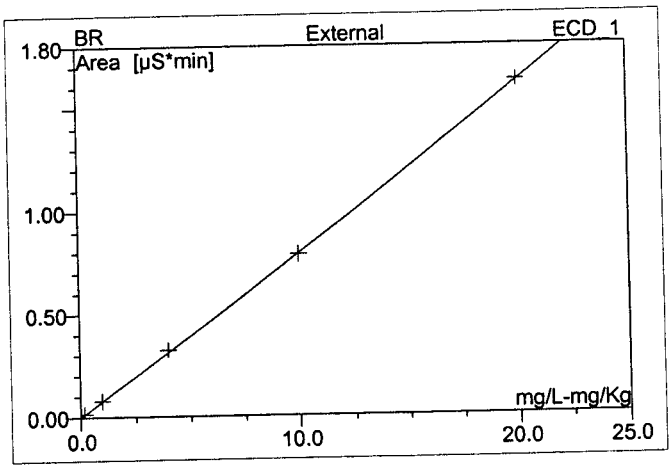
IC01 Calibration Batch Report

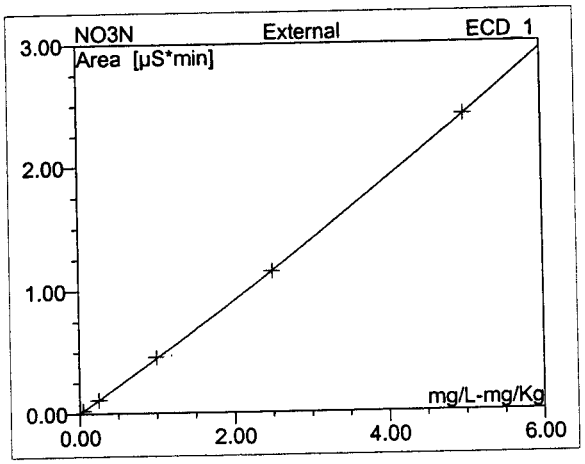
Sequence:	032	Inj. Vol.:	25.0
Program:	IC01-7AN	Operator:	PC_NEWIC
Inj. Date/Time:	02/01/06 14:03	Run Time:	15.00

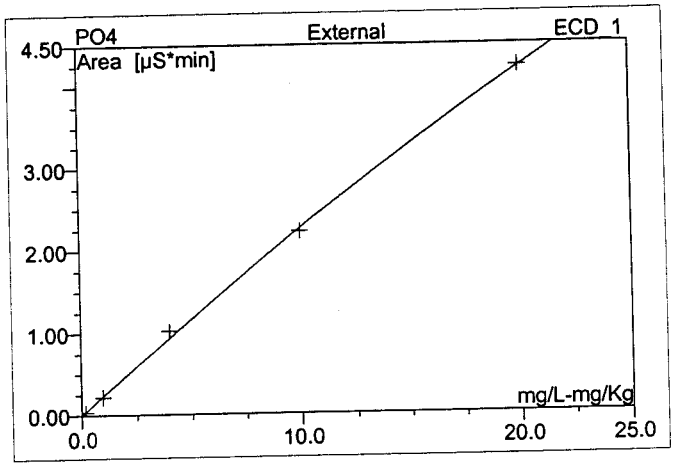




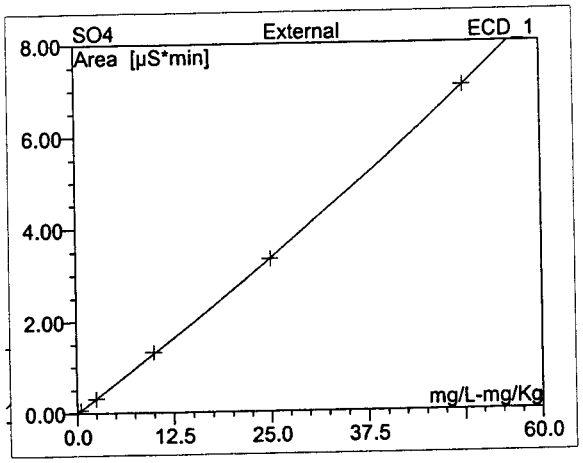








Sequence:	032	*Inj. Vol.:*	25.0
Program:	IC01-7AN	*Operator:*	n.a.
Inj. Date/Time:	02/01/06 14:03	*Run Time:*	15.00



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	3.37	F	Quad	5	0.000000	0.278548	0.003187	99.966068
2	4.89	CL	Quad	5	0.000000	0.173571	0.001594	99.916153
4	5.79	NO2N	Quad	5	0.000000	0.357447	0.005065	99.979455
5	7.33	BR	Quad	5	0.000000	0.077484	0.000182	99.987414
6	8.26	NO3N	Quad	5	0.000000	0.440112	0.008413	99.970779
7	10.28	PO4	Quad	5	0.000000	0.242367	-0.001578	99.885417
8	12.17	SO4	Quad	5	0.000000	0.126102	0.000301	99.958961
AVERAGE:					0.000000	0.242233	0.002452	99.952035

No.	Name	Area µS*min F ECD_1	Area µS*min CL ECD_1	Area µS*min NO2N ECD_1	Area µS*min BR ECD_1	Area µS*min NO3N ECD_1	Area µS*min PO4 ECD_1	Area µS*min SO4 ECD_1
2	ICAL,L1,S188	0.025275	0.034903	0.019321	0.015298	0.022490	0.034330	0.061629
3	ICAL,L2,S188	0.130653	0.169780	0.089380	0.077435	0.107540	0.217220	0.309323
4	ICAL,L3,S188	0.576603	0.728921	0.372151	0.322907	0.457889	1.024032	1.314019
5	ICAL,L4,S188	1.469972	1.890327	0.919106	0.786634	1.147425	2.219833	3.327253
6	ICAL,L5,S188	3.104502	4.110030	1.915021	1.623599	2.411883	4.224545	7.058845

No.	Name	Height µS F ECD_1	Height µS CL ECD_1	Height µS NO2N ECD_1	Height µS BR ECD_1	Height µS NO3N ECD_1	Height µS PO4 ECD_1	Height µS SO4 ECD_1
2	ICAL,L1,S188	0.214888	0.258158	0.107142	0.073826	0.090044	0.092472	0.173918
3	ICAL,L2,S188	1.091262	1.255538	0.520346	0.357736	0.437902	0.520594	0.860712
4	ICAL,L3,S188	4.846146	5.414854	2.167724	1.511584	1.866278	2.566166	3.696382
5	ICAL,L4,S188	12.797028	14.219142	5.393734	3.770806	4.728312	6.027548	9.511224
6	ICAL,L5,S188	27.169356	31.375536	11.293560	7.962244	10.100652	12.291378	20.783882

No.	Name	Amount mg/L-mg/Kg F ECD_1	Amount mg/L-mg/Kg CL ECD_1	Amount mg/L-mg/Kg NO2N ECD_1	Amount mg/L-mg/Kg BR ECD_1	Amount mg/L-mg/Kg NO3N ECD_1	Amount mg/L-mg/Kg PO4 ECD_1	Amount mg/L-mg/Kg SO4 ECD_1
2	ICAL,L1,S188	0.090645	0.200718	0.054011	0.197347	0.051052	0.141776	0.488153
3	ICAL,L2,S188	0.466559	0.969523	0.249171	0.997037	0.243215	0.901538	2.438779
4	ICAL,L3,S188	2.023200	4.048958	1.026211	4.127423	1.020484	4.348224	10.173592
5	ICAL,L4,S188	4.992160	9.976525	2.483881	9.921246	2.488719	9.781943	24.906875
6	ICAL,L5,S188	10.001057	20.003598	5.002836	20.014099	5.001893	20.046763	50.015285

Method File: IC01-7AN_CAL
Operator: ic_analyst

Printed: 3/22/2006 6:23:24 PM

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ

Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Inhibit Integration	On	ECD_1
2	3.000	Inhibit Integration	Off	ECD_1
3	3.010	Minimum Area	0.001 "[Signal]*min"	ECD_1
4	3.011	Peak Slice	0.05 s	ECD_1

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Method File: IC01-7AN_CAL
Operator: ic_analyst

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ

Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Comment	Amount ICAL,L1,S1888,500
1	F	3.347 min	5.000 RG	External	Area	Quad	Auto			0.100000
2	*CL*	*4.800 min*	*5.000 RG*	*External*	*Area*	*Quad*	*Auto*			*0.200000*
3	NO2N	5.653 min	5.000 RG	External	Area	Quad	Auto			0.050000
4	BR	7.107 min	5.000 RG	External	Area	Quad	Auto			0.200000
5	NO3N	7.997 min	10.000 RG	External	Area	Quad	Auto			0.050000
6	PO4	9.950 min	10.000 RG	External	Area	Quad	Auto			0.200000
7	SO4	11.803 min	10.000 RG	External	Area	Quad	Auto			0.500000

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Method File: IC01-7AN_CAL
Operator: ic_analyst

Printed: 3/22/2006 6:23:24 PM

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ

Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Amount ICAL,L2,S1888,100	Amount ICAL,L3,S1888,25	Amount ICAL,L4,S1888,10	Amount ICAL,L5,S1888,5
1	F	3.347 min	0.500000	2.000000	5.000000	10.000000
2	*CL*	*4.800 min*	*1.000000*	*4.000000*	*10.000000*	*20.000000*
3	NO2N	5.653 min	0.250000	1.000000	2.500000	5.000000
4	BR	7.107 min	1.000000	4.000000	10.000000	20.000000
5	NO3N	7.997 min	0.250000	1.000000	2.500000	5.000000
6	PO4	9.950 min	1.000000	4.000000	10.000000	20.000000
7	SO4	11.803 min	2.500000	10.000000	25.000000	50.000000

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Method File: IC01-7AN_CAL
Operator: ic_analyst

Printed: 3/22/2006 6:23:24 PM

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ

Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Resp.Fact.	Comment	Amount ICAL,L1,S1888,500	Amount ICAL,L2,S1888,100	Amount ICAL,L3,S1888,25	Amount ICAL,L4,S1888,10
1	F	3.347 min	1.000000		0.100000	0.500000	2.000000	5.000000
2	*CL*	*4.800 min*	*1.000000*		*0.200000*	*1.000000*	*4.000000*	*10.000000*
3	NO2N	5.653 min	1.000000		0.050000	0.250000	1.000000	2.500000
4	BR	7.107 min	1.000000		0.200000	1.000000	4.000000	10.000000
5	NO3N	7.997 min	1.000000		0.050000	0.250000	1.000000	2.500000
6	PO4	9.950 min	1.000000		0.200000	1.000000	4.000000	10.000000
7	SO4	11.803 min	1.000000		0.500000	2.500000	10.000000	25.000000

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Method File: IC01-7AN_CAL
Operator: ic_analyst

Printed: 3/22/2006 6:23:25 PM

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ

Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Amount ICAL,L5,S1888,5
1	F	3.347 min	10.000000
2	*CL*	*4.800 min*	*20.000000*
3	NO2N	5.653 min	5.000000
4	BR	7.107 min	20.000000
5	NO3N	7.997 min	5.000000
6	PO4	9.950 min	20.000000
7	SO4	11.803 min	50.000000

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

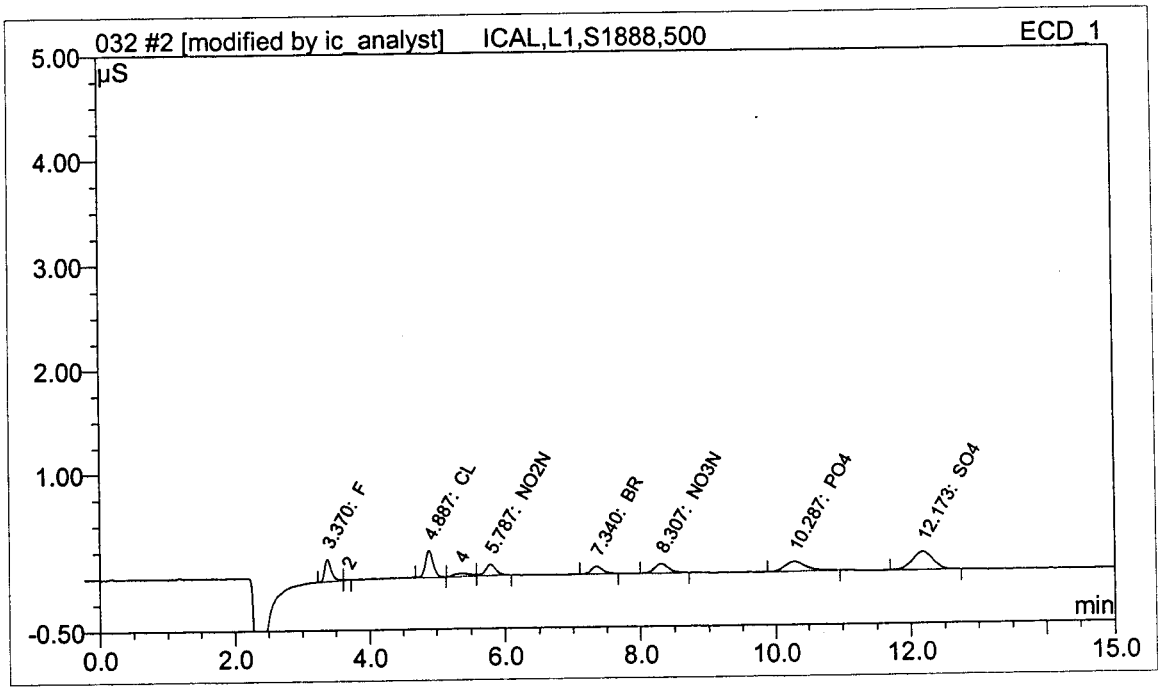
No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time	Calib. Comment
1	☒	ICAL,L1,S1888,500	2	70	25.0	1.0000	1.0000	1.0000	2/1/2006 1:28:35 PM	Ok
2	☒	ICAL,L2,S1888,100	3	35	25.0	1.0000	1.0000	1.0000	2/1/2006 1:46:06 PM	Ok
3	☒	ICAL,L3,S1888,25	4	35	25.0	1.0000	1.0000	1.0000	2/1/2006 2:03:37 PM	Ok
4	☒	ICAL,L4,S1888,10	5	36	25.0	1.0000	1.0000	1.0000	2/1/2006 2:21:08 PM	Ok
5	☒	ICAL,L5,S1888,5	6	37	25.0	1.0000	1.0000	1.0000	2/1/2006 2:38:38 PM	Ok

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L1,S1888,500	**Sample No.:**	2
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:28 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	0.025275	0.0906	0.0906	
3	CL	4.887	0.034903	0.2007	0.2007	
5	NO2N	5.787	0.019321	0.0540	0.0540	
6	BR	7.340	0.015298	0.1973	0.1973	
7	NO3N	8.307	0.022490	0.0511	0.0511	
8	PO4	10.287	0.034330	0.1418	0.1418	
9	SO4	12.173	0.061629	0.4882	0.4882	



ANALYZED BY: _____

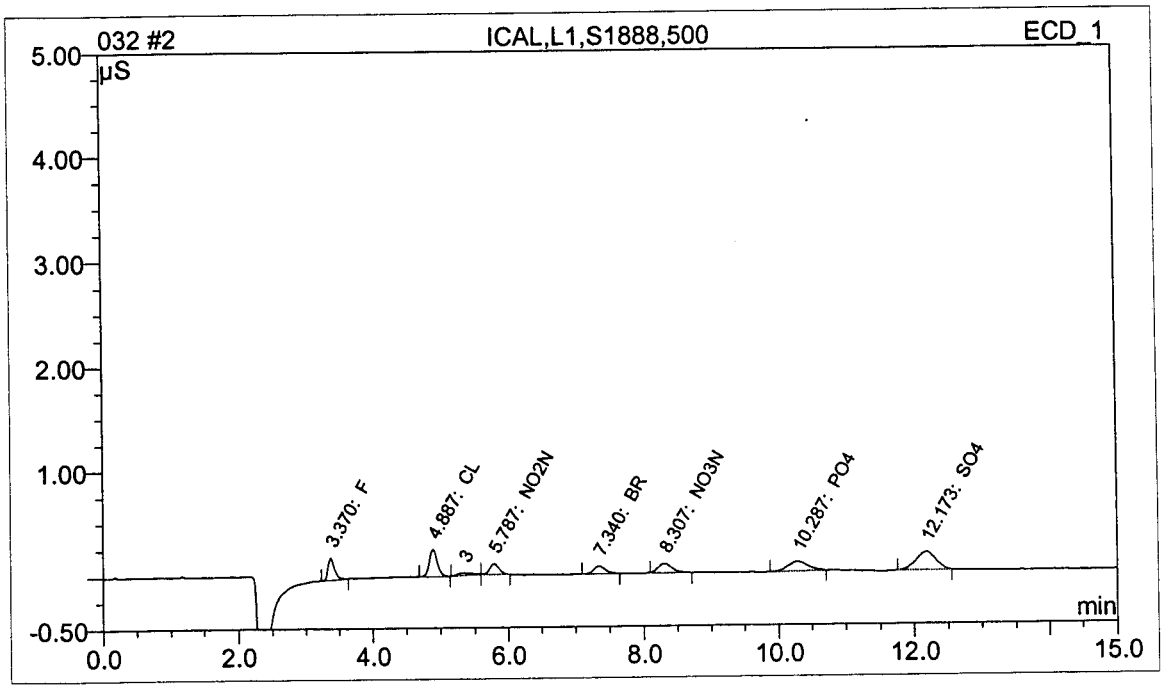
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L1,S1888,500	**Sample No.:**	2
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:28 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	0.024236	0.0869	0.0869	
2	CL	4.887	0.034903	0.2007	0.2007	
4	NO2N	5.787	0.015698	0.0439	0.0439	
5	BR	7.340	0.015043	0.1941	0.1941	
6	NO3N	8.307	0.020103	0.0456	0.0456	
7	PO4	10.287	0.031075	0.1283	0.1283	
8	SO4	12.173	0.056768	0.4497	0.4497	



ANALYZED BY: _____

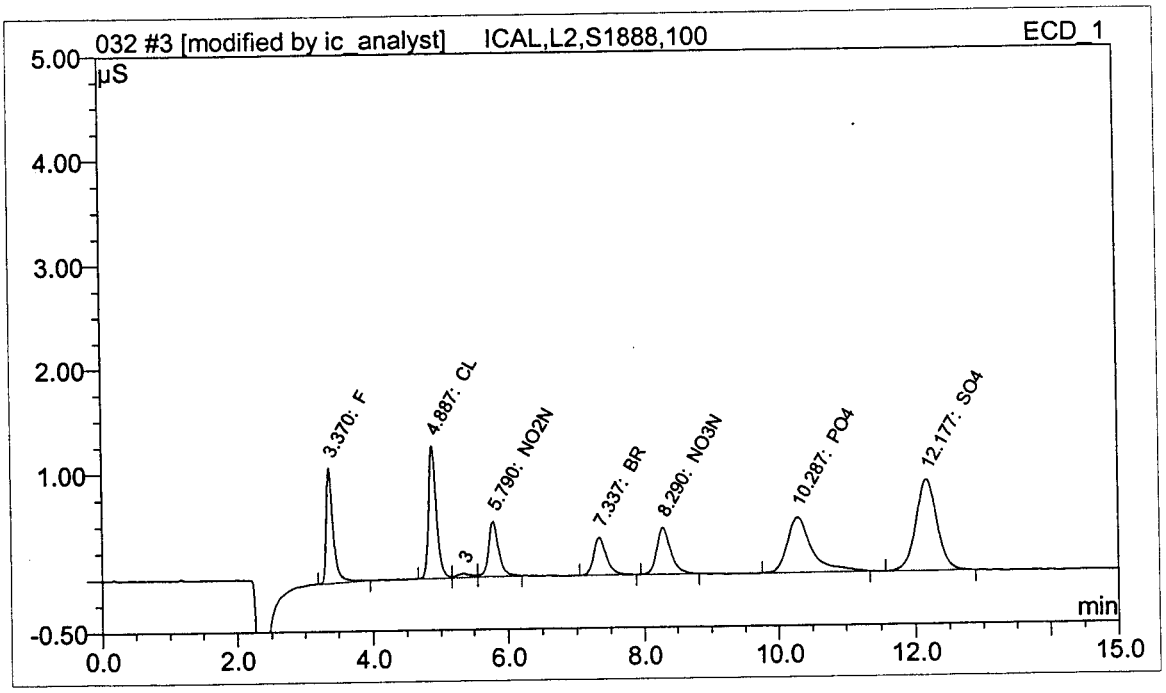
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L2,S1888,100	**Sample No.:**	3
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:46 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	0.130653	0.4666	0.4666	
2	CL	4.887	0.169780	0.9695	0.9695	
4	NO2N	5.790	0.089380	0.2492	0.2492	
5	BR	7.337	0.077435	0.9970	0.9970	
6	NO3N	8.290	0.107540	0.2432	0.2432	
7	PO4	10.287	0.217220	0.9015	0.9015	
8	SO4	12.177	0.309323	2.4388	2.4388	



ANALYZED BY: _____

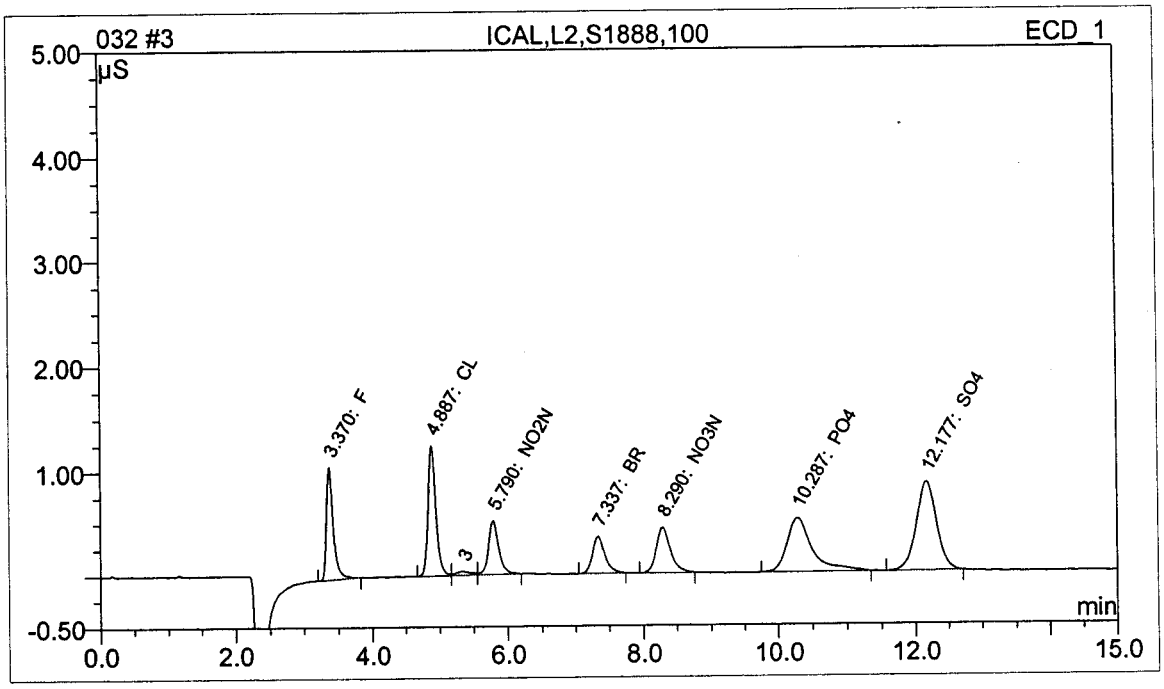
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L2,S1888,100	**Sample No.:**	3
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:46 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	0.127500	0.4556	0.4556	
2	CL	4.887	0.169780	0.9695	0.9695	
4	NO2N	5.790	0.089380	0.2492	0.2492	
5	BR	7.337	0.075668	0.9749	0.9749	
6	NO3N	8.290	0.106521	0.2410	0.2410	
7	PO4	10.287	0.217220	0.9015	0.9015	
8	SO4	12.177	0.303977	2.3979	2.3979	



ANALYZED BY: _____

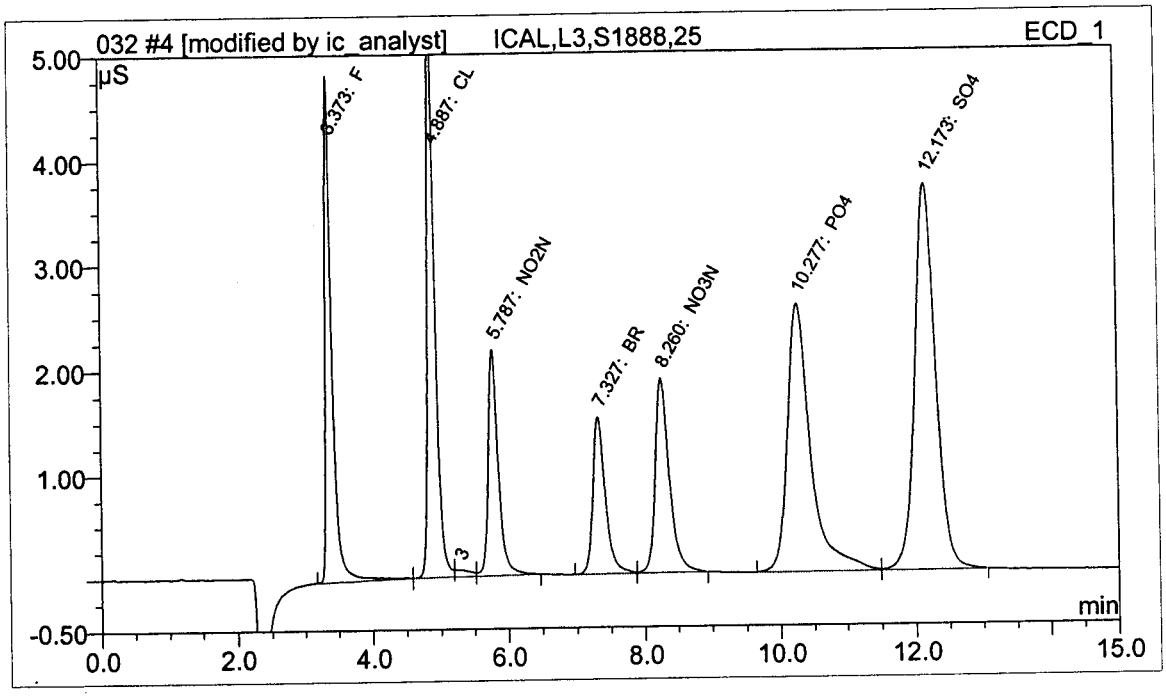
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L3,S1888,25	**Sample No.:**	4
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:03 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.373	0.576603	2.0232	2.0232	
2	CL	4.887	0.728921	4.0490	4.0490	
4	NO2N	5.787	0.372151	1.0262	1.0262	
5	BR	7.327	0.322907	4.1274	4.1274	
6	NO3N	8.260	0.457889	1.0205	1.0205	
7	PO4	10.277	1.024032	4.3482	4.3482	
8	SO4	12.173	1.314019	10.1736	10.1736	



ANALYZED BY: _____

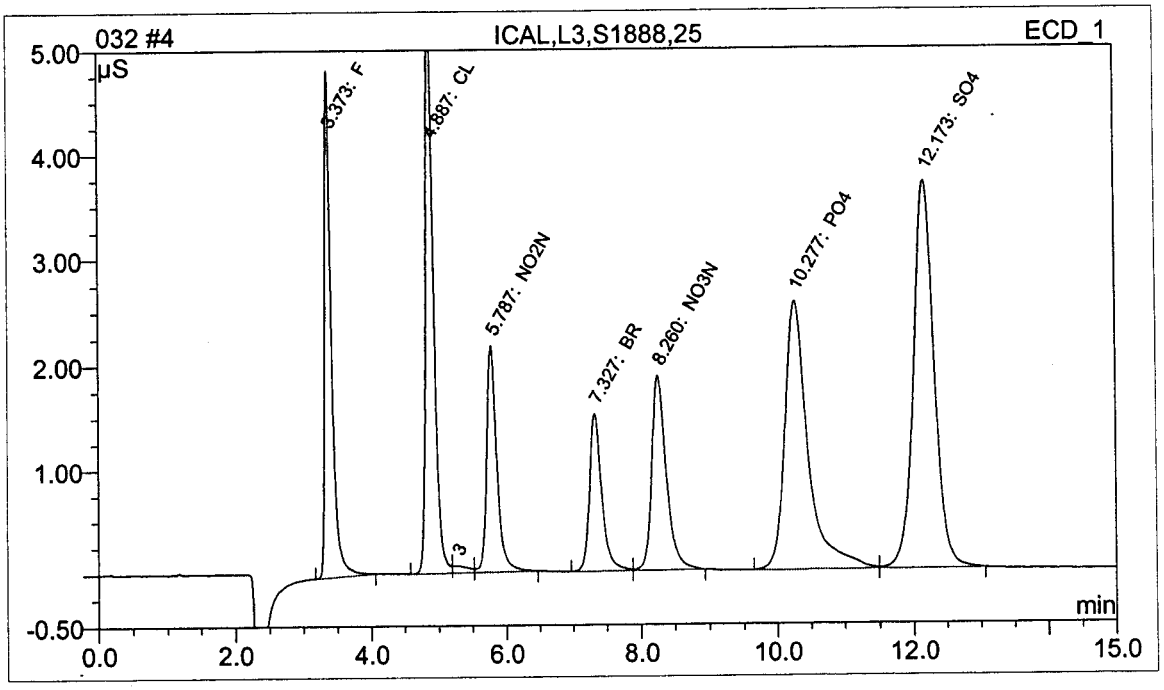
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L3,S1888,25	**Sample No.:**	4
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:03 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.373	0.560194	1.9831	1.9831	
2	CL	4.887	0.728921	4.0490	4.0490	
4	NO2N	5.787	0.372151	1.0262	1.0262	
5	BR	7.327	0.322907	4.1274	4.1274	
6	NO3N	8.260	0.457889	1.0205	1.0205	
7	PO4	10.277	1.024032	4.3482	4.3482	
8	SO4	12.173	1.314019	10.1736	10.1736	



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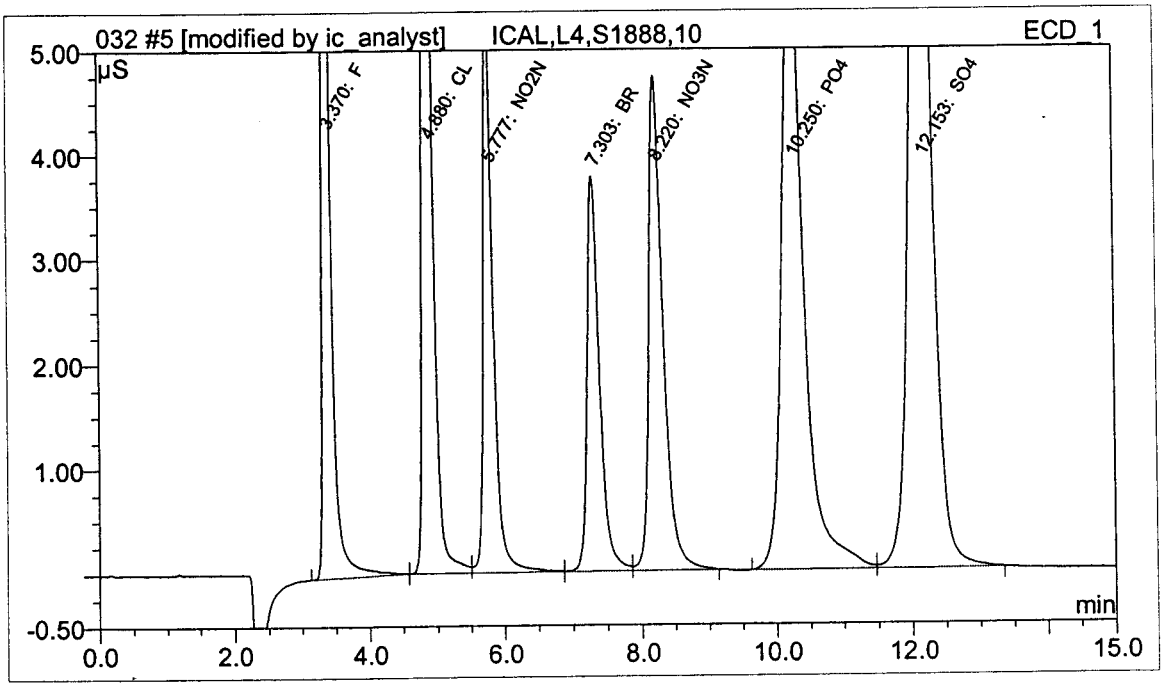
Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L4,S1888,10	**Sample No.:**	5
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:21 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	1.469972	4.9922	4.9922	
2	CL	4.880	1.890327	9.9765	9.9765	
3	NO2N	5.777	0.919106	2.4839	2.4839	
4	BR	7.303	0.786634	9.9212	9.9212	
5	NO3N	8.220	1.147425	2.4887	2.4887	
6	PO4	10.250	2.219833	9.7819	9.7819	
7	SO4	12.153	3.327253	24.9069	24.9069	



ANALYZED BY: _____

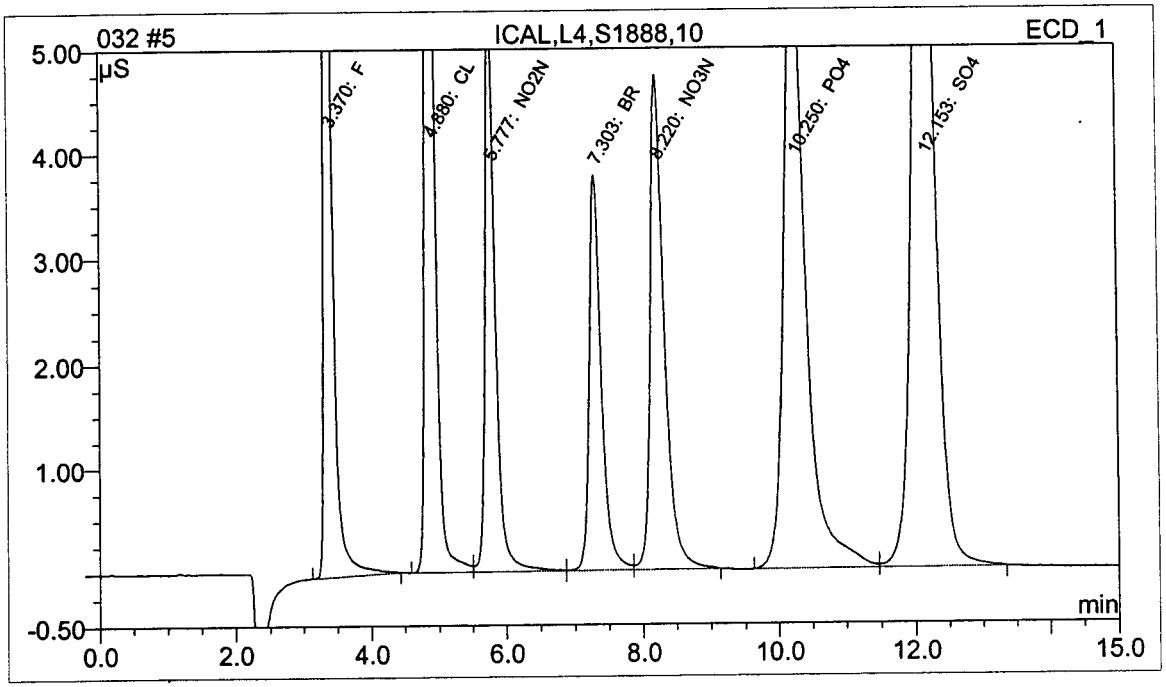
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L4,S1888,10	**Sample No.:**	5
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:21 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	1.463674	4.9860	4.9860	
2	CL	4.880	1.890327	9.9765	9.9765	
3	NO2N	5.777	0.919106	2.4839	2.4839	
4	BR	7.303	0.786634	9.9212	9.9212	
5	NO3N	8.220	1.147425	2.4887	2.4887	
6	PO4	10.250	2.219833	9.7819	9.7819	
7	SO4	12.153	3.327253	24.9069	24.9069	



ANALYZED BY: _____

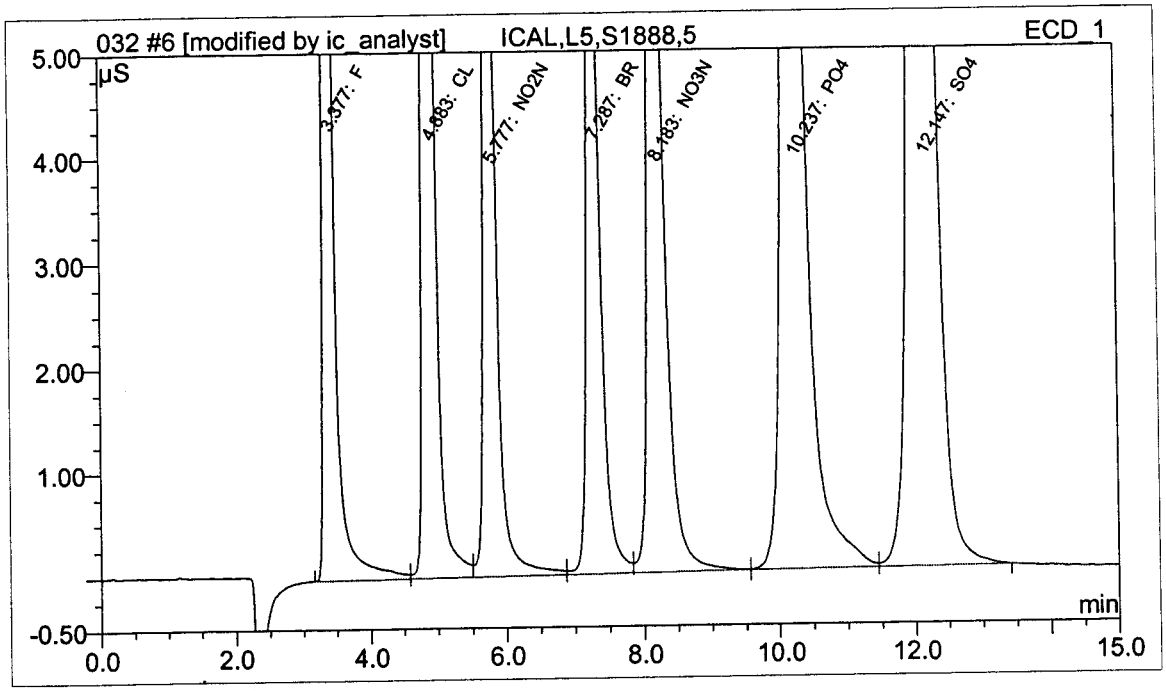
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L5,S1888,5	**Sample No.:**	6
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:38 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.377	3.104502	10.0011	10.0011	
2	CL	4.883	4.110030	20.0036	20.0036	
3	NO2N	5.777	1.915021	5.0028	5.0028	
4	BR	7.287	1.623599	20.0141	20.0141	
5	NO3N	8.183	2.411883	5.0019	5.0019	
6	PO4	10.237	4.224545	20.0468	20.0468	
7	SO4	12.147	7.058845	50.0153	50.0153	



ANALYZED BY: _____

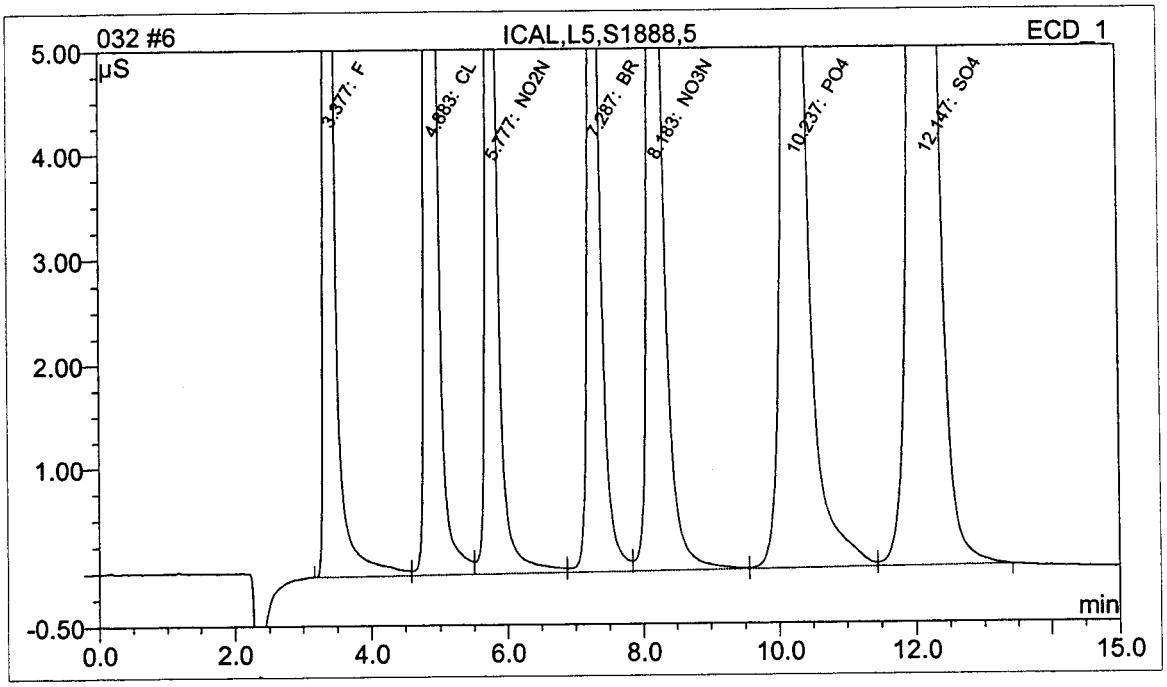
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L5,S1888,5	**Sample No.:**	6
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:38 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.377	3.105467	10.0011	10.0011	
2	CL	4.883	4.111657	20.0037	20.0037	
3	NO2N	5.777	1.918949	5.0029	5.0029	
4	BR	7.287	1.627431	20.0145	20.0145	
5	NO3N	8.183	2.420882	5.0021	5.0021	
6	PO4	10.237	4.233171	20.0470	20.0470	
7	SO4	12.147	7.061876	50.0155	50.0155	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185679 IC Water
EPA 300.0

Inst : IC01
Calnum : 606046871001 Cal Date: 01-FEB-2006

ICV 606046871007 (032_7.000 01-FEB-2006) stds: S1085 (5X)

Analyte	Spiked	Quant	Units	%D	Max	Flags
Fluoride	1.000	0.9085	mg/L	-9	10	
Chloride	2.000	1.856	mg/L	-7	10	
Nitrogen, Nitrite	0.5000	0.4846	mg/L	-3	10	
Nitrogen, Nitrate	0.5000	0.4506	mg/L	-10	10	
Sulfate	5.000	4.911	mg/L	-2	10	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 300.0

Inst : IC01
Seqnum : 606046871007
Cal : 606046871001

File : 032_7.000
Caldate: 01-FEB-2006

IDF : 1.0
Time : 01-FEB-2006 14:56

Standards: S1085 (5X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Fluoride	0.2814	0.2557	1.000	0.9085	mg/L	-9	10	
Chloride	0.1842	0.1638	2.000	1.856	mg/L	-7	10	
Nitrogen, Nitrite	0.3733	0.3488	0.5000	0.4846	mg/L	-3	10	
Bromide	0.0789	0.0774	2.000	1.990	mg/L	-1	10	
Nitrogen, Nitrate	0.4558	0.4001	0.5000	0.4506	mg/L	-10	10	
Orthophosphate (as P)	0.2156	0.2973	2.000	2.494	mg/L	**25**	10	v+ *** NT
Sulfate	0.1305	0.1253	5.000	4.911	mg/L	-2	10	

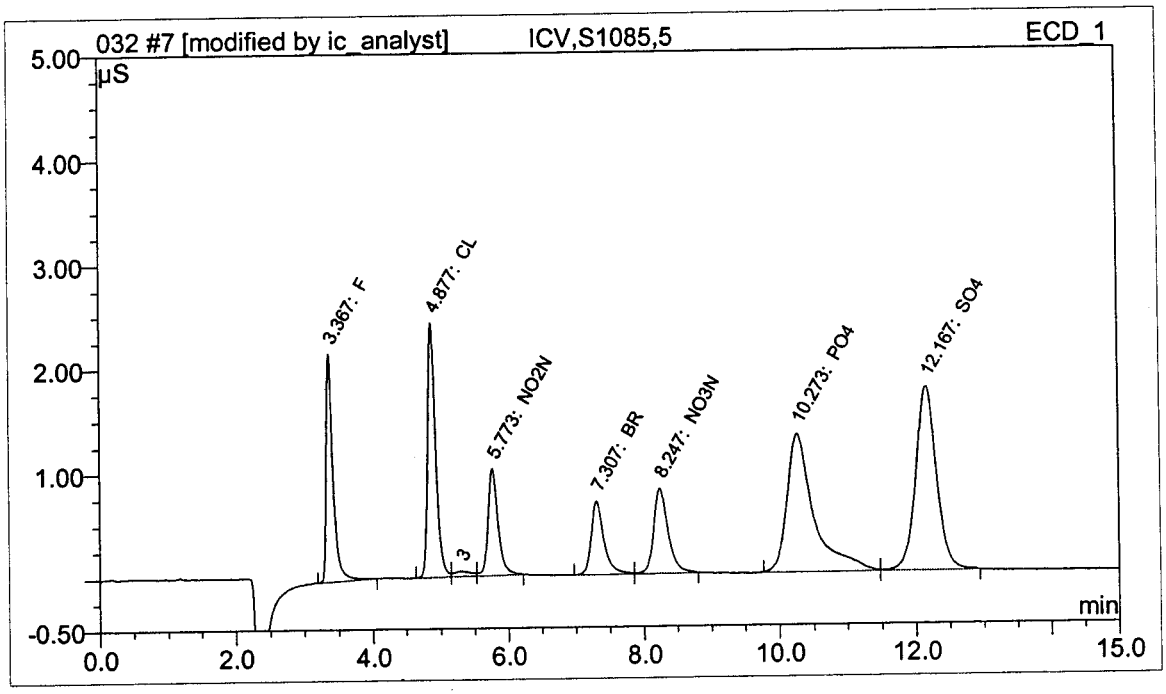
MAS 2/1/06

+=high bias v=ICV

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:56 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.367	0.255692	0.9085	0.9085	
2	CL	4.877	0.327591	1.8557	1.8557	
4	NO2N	5.773	0.174392	0.4846	0.4846	
5	BR	7.307	0.154881	1.9896	1.9896	
6	NO3N	8.247	0.200041	0.4506	0.4506	
7	PO4	10.273	0.594629	2.4939	2.4939	
8	SO4	12.167	0.626486	4.9106	4.9106	



ANALYZED BY: _____

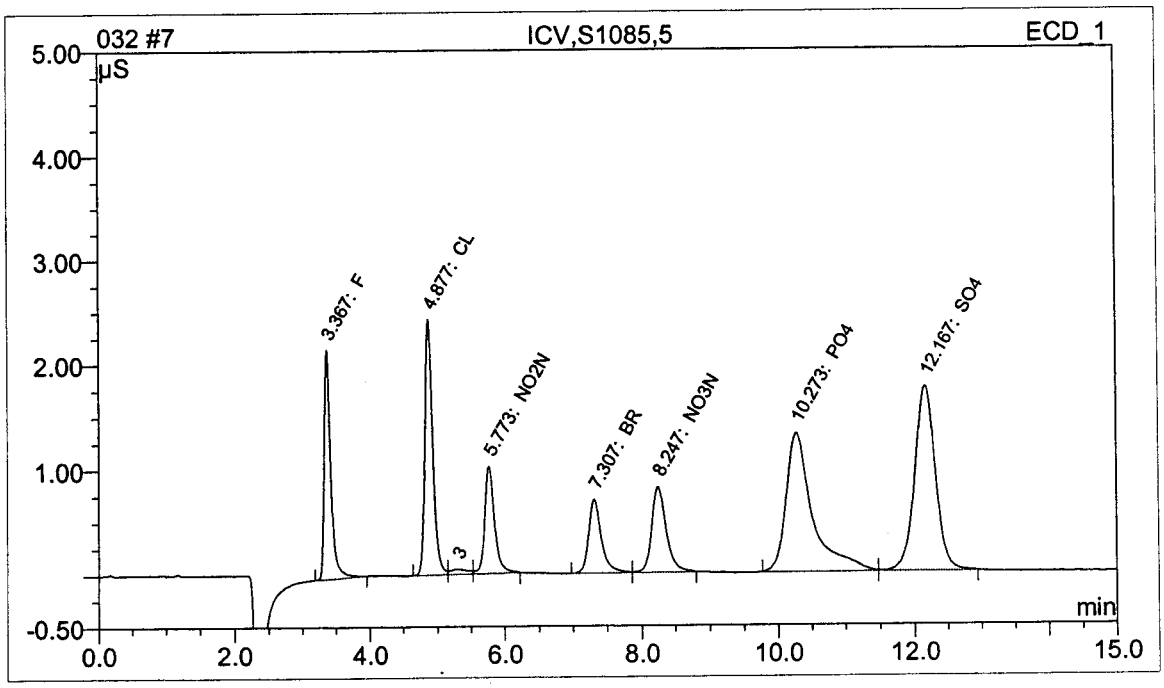
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:56 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.367	0.253367	0.9003	0.9003	
2	CL	4.877	0.327591	1.8557	1.8557	
4	NO2N	5.773	0.174392	0.4846	0.4846	
5	BR	7.307	0.154881	1.9896	1.9896	
6	NO3N	8.247	0.200041	0.4506	0.4506	
7	PO4	10.273	0.594629	2.4939	2.4939	
8	SO4	12.167	0.626486	4.9106	4.9106	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 185679 IC Water: EPA 300.0

Inst : IC03
Calnum : 626087283001
Units : mg/L

Date : 01-MAR-2006 15:02
X Axis : A

Reviewer: MCH
Inj Vol : 25 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	060_2.000	626087283002	L1	01-MAR-2006 15:02	S1888 (500X)
L2	060_3.000	626087283003	L2	01-MAR-2006 15:20	S1888 (100X)
L3	060_4.000	626087283004	L3	01-MAR-2006 15:39	S1888 (25X)
L4	060_5.000	626087283005	L4	01-MAR-2006 15:57	S1888 (10X)
L5	060_6.000	626087283006	L5	01-MAR-2006 16:15	S1888 (5X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Fluoride	0.1716	0.1970	0.2011	0.2058	0.2193	QORG		0.19367	0.002557	0.1990	1.000	0.990	
Chloride	0.2004	0.1474	0.1573	0.1617	0.1760	QORG		0.14901	0.001346	0.1686	1.000	0.990	
Nitrogen, Nitrite	0.2691	0.2776	0.3037	0.3039	0.3170	QORG		0.29330	0.004711	0.2943	1.000	0.990	
Nitrogen, Nitrate	0.3560	0.3834	0.3978	0.3870	0.4128	QORG		0.37136	0.008191	0.3874	1.000	0.990	
Sulfate	0.1066	0.1006	0.1099	0.1118	0.1203	QORG		0.10436	3.187E-4	0.1099	1.000	0.990	

497

QORG=Quadratic regression forced through origin

Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

626087283001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 300.0

Inst : IC03
Calnum : 626087283001 Date : 01-MAR-2006 15:02 Inj Vol: 25 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	060_2.000	626087283002	L1	01-MAR-2006 15:02	S1888 (500X)
L2	060_3.000	626087283003	L2	01-MAR-2006 15:20	S1888 (100X)
L3	060_4.000	626087283004	L3	01-MAR-2006 15:39	S1888 (25X)
L4	060_5.000	626087283005	L4	01-MAR-2006 15:57	S1888 (10X)
L5	060_6.000	626087283006	L5	01-MAR-2006 16:15	S1888 (5X)

Mar 3/2/06

Analyte	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MnR^2	Flg
Fluoride	0.1716	0.1970	0.2011	0.2058	0.2193	QORG	A		0.19367	0.002557	mg/L	0.1990	1.000	0.990	
Chloride	0.2004	0.1474	0.1573	0.1617	0.1760	QORG	A		0.14901	0.001346	mg/L	0.1686	1.000	0.990	
Nitrogen, Nitrite	0.2691	0.2776	0.3037	0.3039	0.3170	QORG	A		0.29330	0.004711	mg/L	0.2943	1.000	0.990	
Bromide	0.0471	0.0627	0.0663	0.0635	0.0673	QORG	A		0.06168	2.750E-4	mg/L	0.0614	1.000	0.990	
Nitrogen, Nitrate	0.3560	0.3834	0.3978	0.3870	0.4128	QORG	A		0.37136	0.008191	mg/L	0.3874	1.000	0.990	
Orthophosphate (as P)	0.0986	0.1086	0.1241	0.1248	0.1349	QORG	A		0.11651	9.164E-4	mg/L	0.1182	1.000	0.990	NA
Sulfate	0.1066	0.1006	0.1099	0.1118	0.1203	QORG	A		0.10436	3.187E-4	mg/L	0.1099	1.000	0.990	

MRS 3/2/06

498

QORG=Quadratic regression forced through origin

Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

626087283001

Sequence: 060
Operator: ic_analyst

Printed: 3/2/2006 11:25:27 AM

Title: Anions
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006
Timebase: IC3_DX120
#Samples: 8

Created: 8/1/2003 11:03:14 AM by ic_analyst
Last Update: 3/1/2006 4:23:55 PM by ic_analyst

No.	*Batch	Name	Comment	Dil. Factor	Program	Status	Inj. Date/Time
1	CAL-060	IB		1.0000	IC03-7AN	Finished	3/1/2006 2:43:54 PM
2	CAL-060	ICAL, L1,S1888,500		1.0000	IC03-7AN	Finished	3/1/2006 3:02:19 PM
3	CAL-060	ICAL, L2,S1888,100		1.0000	IC03-7AN	Finished	3/1/2006 3:20:44 PM
4	CAL-060	ICAL, L3,S1888,25		1.0000	IC03-7AN	Finished	3/1/2006 3:39:08 PM
5	CAL-060	ICAL, L4,S1888,10		1.0000	IC03-7AN	Finished	3/1/2006 3:57:33 PM
6	CAL-060	ICAL, L5,S1888,5		1.0000	IC03-7AN	Finished	3/1/2006 4:15:58 PM
7	CAL-060	ICV,S1085,5		1.0000	IC03-7AN	Finished	3/1/2006 4:34:23 PM
8	CAL-060	ICB		1.0000	IC03-7AN	Finished	3/1/2006 4:52:47 PM

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Sequence: 060
Operator: ic_analyst

Printed: 3/2/2006 11:25:27 AM

Title: Anions
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006
Timebase: IC3_DX120
#Samples: 8

Created: 8/1/2003 11:03:14 AM by ic_analyst
Last Update: 3/1/2006 4:23:55 PM by ic_analyst

No.	*Batch	Name	Comment	Method	Type	Inj. Vol.	*operator	*PDF
1	CAL-060	IB		IC03-7AN_CAL	Unknown	25.0	MRS	1
2	CAL-060	ICAL, L1,S1888,500		IC03-7AN_CAL	Standard	25.0	MRS	1
3	CAL-060	ICAL, L2,S1888,100		IC03-7AN_CAL	Standard	25.0	MRS	1
4	CAL-060	ICAL, L3,S1888,25		IC03-7AN_CAL	Standard	25.0	MRS	1
5	CAL-060	ICAL, L4,S1888,10		IC03-7AN_CAL	Standard	25.0	MRS	1
6	CAL-060	ICAL, L5,S1888,5		IC03-7AN_CAL	Standard	25.0	MRS	1
7	CAL-060	ICV,S1085,5		IC03-7AN_CAL	Unknown	25.0	MRS	1
8	CAL-060	ICB		IC03-7AN_CAL	Unknown	25.0	MRS	1

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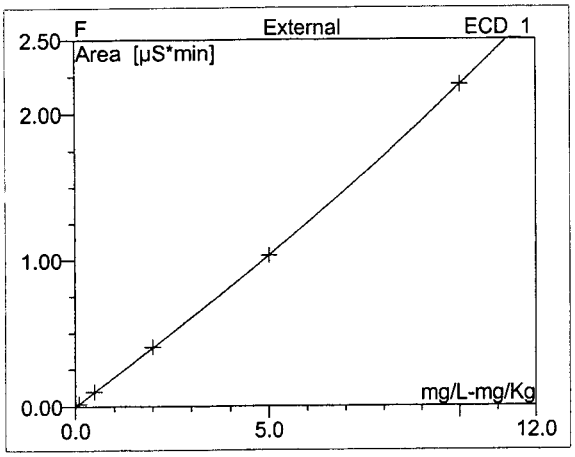
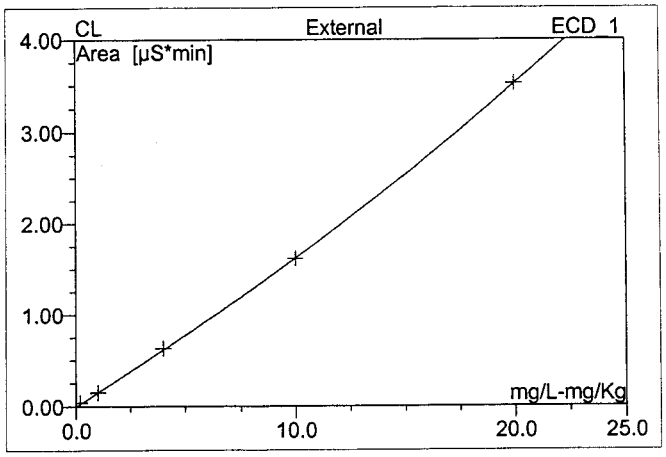
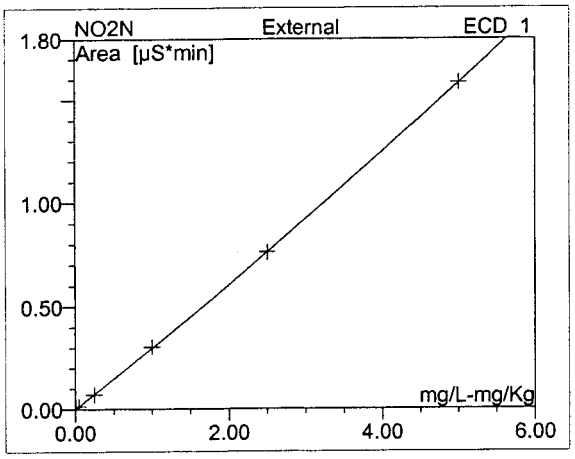
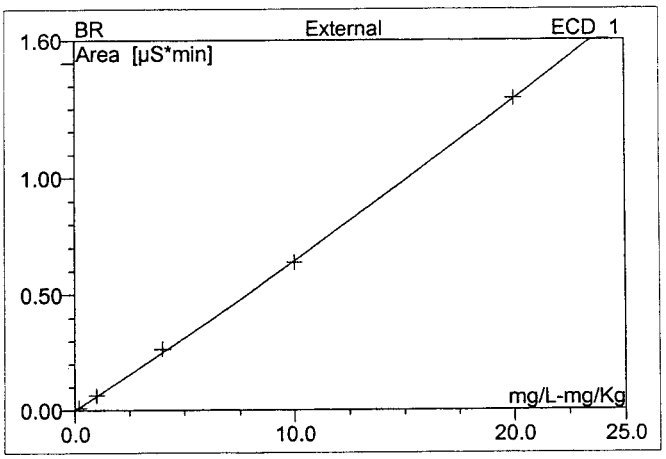
IC03 Calibration Batch Report

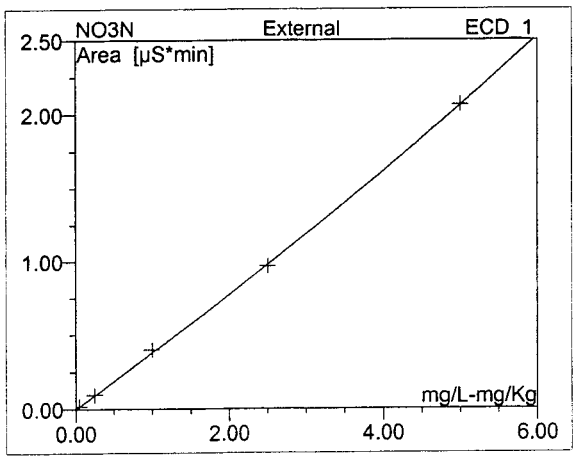
Sequence:	060	Inj. Vol.:	25.0
Program:	IC03-7AN	Operator:	PC_NEWIC
Inj. Date/Time:	03/01/06 15:39	Run Time:	16.00

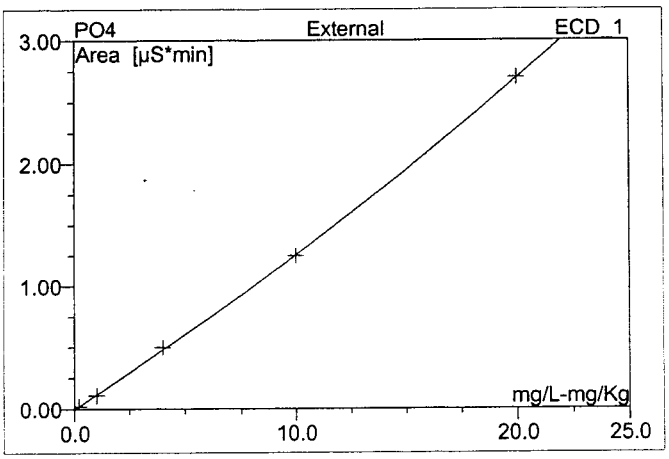




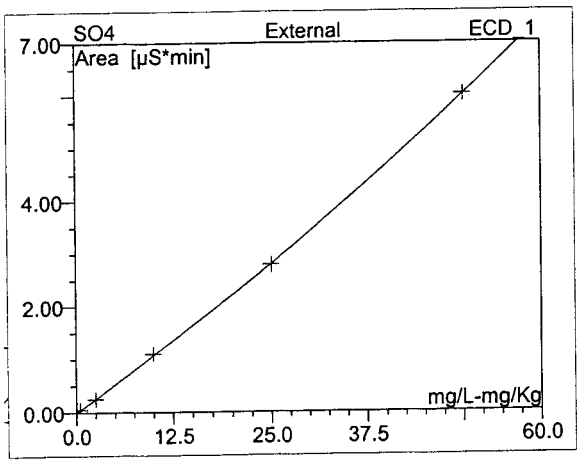








Sequence:	**060**	*Inj. Vol.:*	**25.0**
Program:	**IC03-7AN**	*Operator:*	**n.a.**
Inj. Date/Time:	**03/01/06 15:39**	*Run Time:*	**16.00**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	2.870	F	Quad	5	0.000000	0.193669	0.002557	99.951556
2	4.217	CL	Quad	5	0.000000	0.149009	0.001346	99.909274
3	5.010	NO2N	Quad	5	0.000000	0.293301	0.004711	99.980499
4	6.363	BR	Quad	5	0.000000	0.061677	0.000275	99.961186
5	7.183	NO3N	Quad	5	0.000000	0.371363	0.008191	99.950755
6	9.350	PO4	Quad	5	0.000000	0.116513	0.000916	99.934448
7	11.167	SO4	Quad	5	0.000000	0.104363	0.000319	99.936780
			AVERAGE:		0.000000	0.184271	0.002616	99.946357

No.	Name	Area µS*min F ECD_1	Area µS*min CL ECD_1	Area µS*min NO2N ECD_1	Area µS*min BR ECD_1	Area µS*min NO3N ECD_1	Area µS*min PO4 ECD_1	Area µS*min SO4 ECD_1
2	ICAL, L1,S18	0.017161	0.040074	0.013455	0.009416	0.017801	0.019729	0.053320
3	ICAL, L2,S18	0.098503	0.147367	0.069403	0.062700	0.095842	0.108648	0.251558
4	ICAL, L3,S18	0.402286	0.629116	0.303748	0.265105	0.397785	0.496547	1.098657
5	ICAL, L4,S18	1.029135	1.617474	0.759872	0.635291	0.967493	1.248459	2.795566
6	ICAL, L5,S18	2.192959	3.519967	1.584757	1.345233	2.063887	2.698316	6.017213

No.	Name	Height µS F ECD_1	Height µS CL ECD_1	Height µS NO2N ECD_1	Height µS BR ECD_1	Height µS NO3N ECD_1	Height µS PO4 ECD_1	Height µS SO4 ECD_1
2	ICAL, L1,S18	0.119928	0.332400	0.084748	0.057026	0.074652	0.061912	0.150120
3	ICAL, L2,S18	0.624736	1.151678	0.427428	0.312212	0.389908	0.332100	0.786078
4	ICAL, L3,S18	2.934282	5.019222	1.815278	1.334402	1.670152	1.537158	3.389914
5	ICAL, L4,S18	7.925782	12.944296	4.498282	3.261344	4.151488	4.029644	8.663126
6	ICAL, L5,S18	18.187422	28.959684	9.537670	7.026382	9.031478	9.108810	19.245860

No.	Name	Amount mg/L-mg/Kg F ECD_1	Amount mg/L-mg/Kg CL ECD_1	Amount mg/L-mg/Kg NO2N ECD_1	Amount mg/L-mg/Kg BR ECD_1	Amount mg/L-mg/Kg NO3N ECD_1	Amount mg/L-mg/Kg PO4 ECD_1	Amount mg/L-mg/Kg SO4 ECD_1
2	ICAL, L1,S18	0.088509	0.268287	0.045841	0.152565	0.047883	0.169101	0.510110
3	ICAL, L2,S18	0.505245	0.980298	0.235735	1.012006	0.256628	0.925752	2.392929
4	ICAL, L3,S18	2.023146	4.072203	1.018944	4.218898	1.046971	4.127700	10.208976
5	ICAL, L4,S18	4.985728	9.958921	2.491093	9.866203	2.470614	9.938275	24.894346
6	ICAL, L5,S18	10.002414	20.006659	5.001430	20.023174	5.005056	20.009590	50.016725

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\073.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/14/2006 3:49:55 PM by ic_analyst

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Inhibit Integration	On	ECD_1
2	2.250	Sensitivity	0.001 "[Signal]"	ECD_1
3	2.250	Minimum Area	0.001 "[Signal]*min"	ECD_1
4	2.250	Peak Slice	0.50 s	ECD_1
5	2.500	Inhibit Integration	Off	ECD_1

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Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\073.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/14/2006 3:49:55 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Amount ICAL, L1,S1888,500
1	F	2.860 min	5.000 RG	External	Area	Quad	Auto		0.100000
2	CL	4.200 min	5.000 RG	External	Area	Quad	Auto		0.200000
3	NO2N	5.000 min	5.000 RG	External	Area	Quad	Auto		0.050000
4	BR	6.377 min	5.000 RG	External	Area	Quad	Auto		0.200000
5	NO3N	7.207 min	10.000 RG	External	Area	Quad	Auto		0.050000
6	*PO4*	*9.213 min*	*10.000 RG*	*External*	*Area*	*Quad*	*Auto*		*0.200000*
7	SO4	10.970 min	10.000 RG	External	Area	Quad	Auto		0.500000

Method File: IC03-7AN_CAL
Operator: ic_analyst

Printed: 3/15/2006 11:11:19 AM

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\073.SEQ

Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/14/2006 3:49:55 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Amount ICAL, L2,S1888,100	Amount ICAL, L3,S1888,25	Amount ICAL, L4,S1888,10	Amount ICAL, L5,S1888,5	Comment
1	F	2.860 min	0.500000	2.000000	5.000000	10.000000	
2	CL	4.200 min	1.000000	4.000000	10.000000	20.000000	
3	NO2N	5.000 min	0.250000	1.000000	2.500000	5.000000	
4	BR	6.377 min	1.000000	4.000000	10.000000	20.000000	
5	NO3N	7.207 min	0.250000	1.000000	2.500000	5.000000	
6	*PO4*	*9.213 min*	*1.000000*	*4.000000*	*10.000000*	*20.000000*	
7	SO4	10.970 min	2.500000	10.000000	25.000000	50.000000	

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\073.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/14/2006 3:49:55 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Resp.Fact.	Amount ICAL, L1,S1888,500	Amount ICAL, L2,S1888,100	Amount ICAL, L3,S1888,25	Amount ICAL, L4,S1888,10
1	F	2.860 min	1.000000	0.100000	0.500000	2.000000	5.000000
2	CL	4.200 min	1.000000	0.200000	1.000000	4.000000	10.000000
3	NO2N	5.000 min	1.000000	0.050000	0.250000	1.000000	2.500000
4	BR	6.377 min	1.000000	0.200000	1.000000	4.000000	10.000000
5	NO3N	7.207 min	1.000000	0.050000	0.250000	1.000000	2.500000
6	*PO4*	*9.213 min*	*1.000000*	*0.200000*	*1.000000*	*4.000000*	*10.000000*
7	SO4	10.970 min	1.000000	0.500000	2.500000	10.000000	25.000000

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\073.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/14/2006 3:49:55 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Amount ICAL, L5,S1888,5	Comment
1	F	2.860 min	10.000000	
2	CL	4.200 min	20.000000	
3	NO2N	5.000 min	5.000000	
4	BR	6.377 min	20.000000	
5	NO3N	7.207 min	5.000000	
6	*PO4*	*9.213 min*	*20.000000*	
7	SO4	10.970 min	50.000000	

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\073.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/14/2006 3:49:55 PM by ic_analyst

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time
1	☒	ICAL, L1,S1888,500	2	179	25.0	1.0000	1.0000	1.0000	3/1/2006 3:02:19 PM
2	☒	ICAL, L2,S1888,100	3	179	25.0	1.0000	1.0000	1.0000	3/1/2006 3:20:44 PM
3	☒	ICAL, L3,S1888,25	4	180	25.0	1.0000	1.0000	1.0000	3/1/2006 3:39:08 PM
4	☒	ICAL, L4,S1888,10	5	181	25.0	1.0000	1.0000	1.0000	3/1/2006 3:57:33 PM
5	☒	ICAL, L5,S1888,5	6	182	25.0	1.0000	1.0000	1.0000	3/1/2006 4:15:58 PM

Method File: IC03-7AN_CAL
Operator: ic_analyst

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\073.SEQ

Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/14/2006 3:49:55 PM by ic_analyst

Calibration:

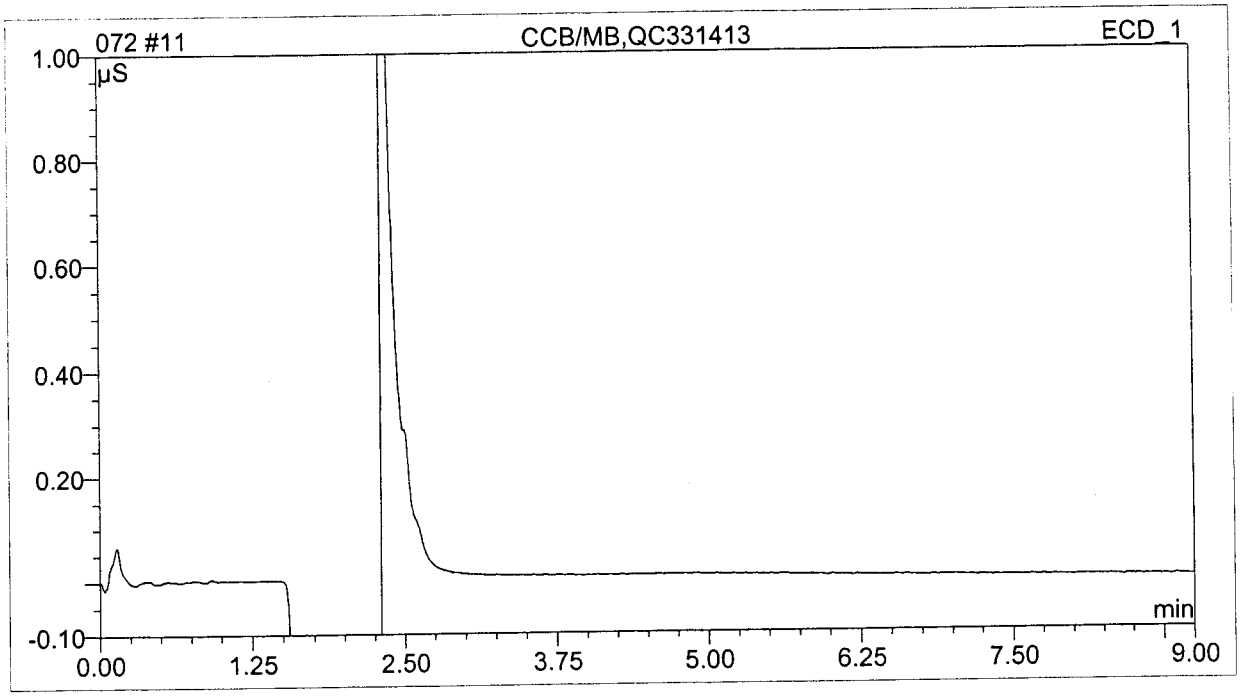
Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Calib. Comment
1	☒	ICAL, L1,S1888,500	Ok
2	☒	ICAL, L2,S1888,100	Ok
3	☒	ICAL, L3,S1888,25	Ok
4	☒	ICAL, L4,S1888,10	Ok
5	☒	ICAL, L5,S1888,5	Ok

PERCHLORATE ANALYSIS REPORT DX320 - IC02

Sample Name:	CCB/MB,QC331413	**Sample No.:**	11
Sequence Name:	072	**Batch #:**	111285
Program Method:	IC02-CLO4	**Injection vol.:**	750.0
Quantitation Method:	IC02-CLO4_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC02-CLO4_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/13/2006 12:13 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount ug/L-ug/Kg	Amount ug/L-ug/Kg	Comment
n.a.	Perchlorate	n.a.	n.a.	n.a.	n.a.	ft s a10539346



ANALYZED BY:

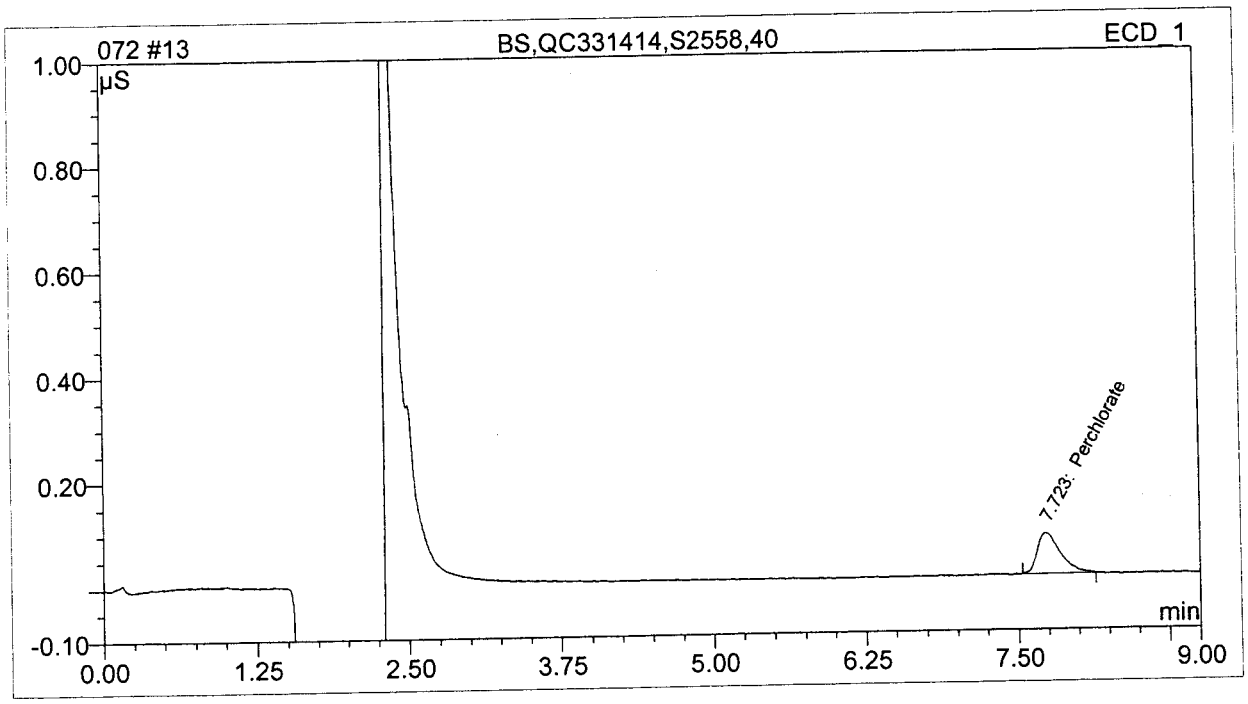
REVIEWED BY:

Curtis & Tompkins, Ltd.

PERCHLORATE ANALYSIS REPORT DX320 - IC02

Sample Name:	BS,QC331414,S2558,40	**Sample No.:**	13
Sequence Name:	072	**Batch #:**	111285
Program Method:	IC02-CLO4	**Injection vol.:**	750.0
Quantitation Method:	IC02-CLO4_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC02-CLO4_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/13/2006 12:40 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount ug/L-ug/Kg	Amount ug/L-ug/Kg	Comment
1	Perchlorate	7.723	0.017205	27.2991	27.2991	ft s a01539346



ANALYZED BY:

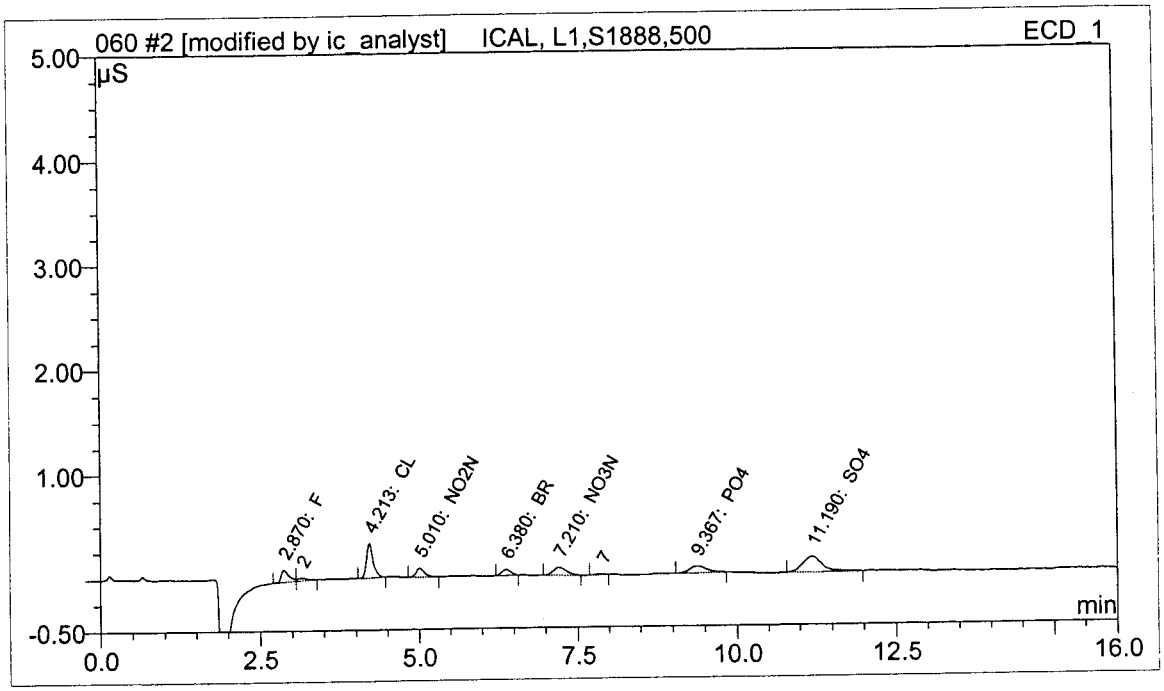
REVIEWED BY:

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L1,S1888,500	**Sample No.:**	2
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:02 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.017161	0.0885	0.0885	
3	CL	4.213	0.040074	0.2683	0.2683	
4	NO2N	5.010	0.013455	0.0458	0.0458	
5	BR	6.380	0.009416	0.1526	0.1526	
6	NO3N	7.210	0.017801	0.0479	0.0479	
8	PO4	9.367	0.019729	0.1691	0.1691	
9	SO4	11.190	0.053320	0.5101	0.5101	



ANALYZED BY: _____

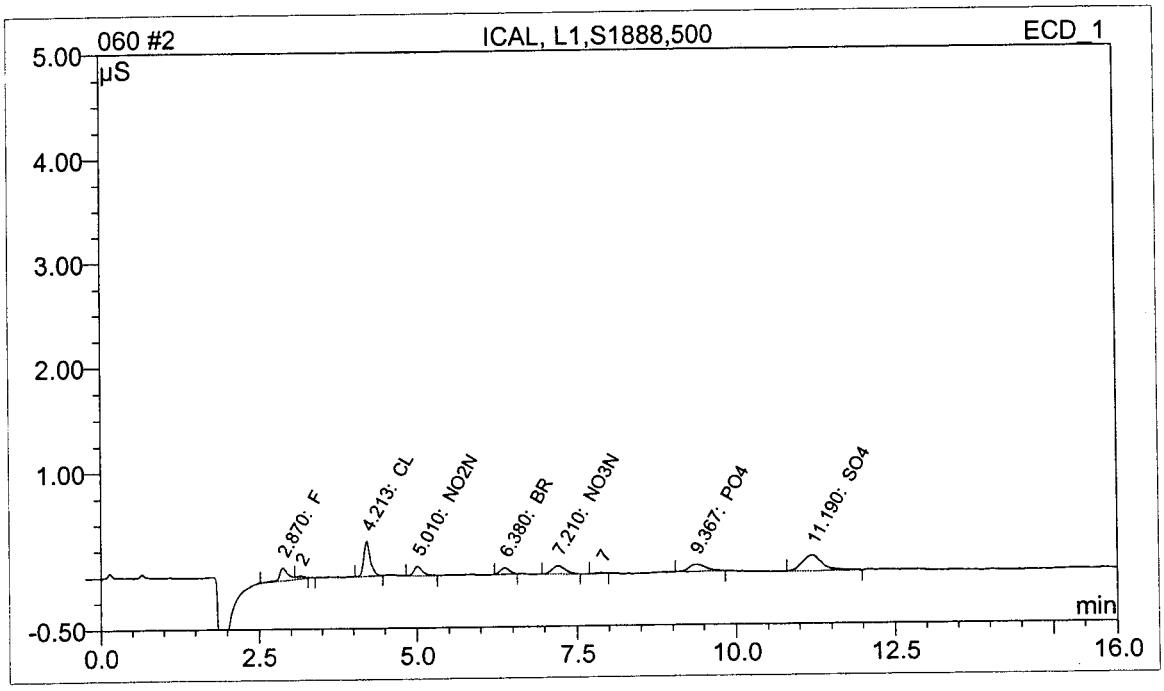
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L1,S1888,500	**Sample No.:**	2
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:02 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.023606	0.1216	0.1216	
3	CL	4.213	0.040074	0.2683	0.2683	
4	NO2N	5.010	0.013455	0.0458	0.0458	
5	BR	6.380	0.009416	0.1526	0.1526	
6	NO3N	7.210	0.017801	0.0479	0.0479	
8	PO4	9.367	0.019729	0.1691	0.1691	
9	SO4	11.190	0.053320	0.5101	0.5101	



ANALYZED BY:

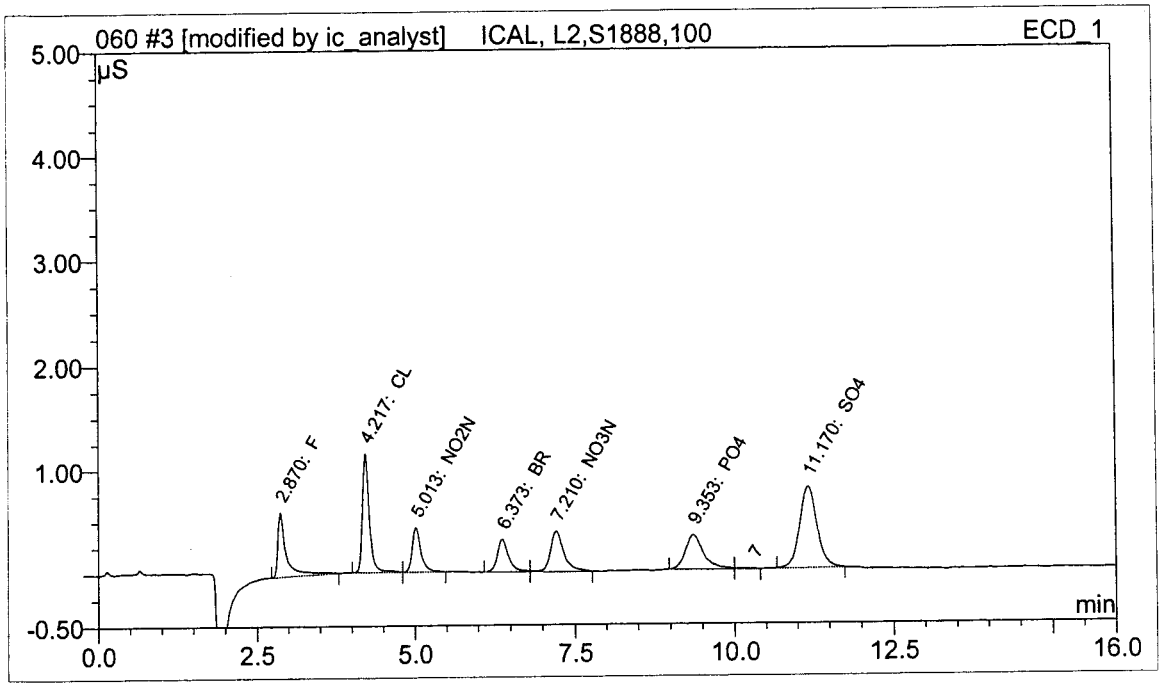
REVIEWED BY:

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L2,S1888,100	**Sample No.:**	3
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:20 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.098503	0.5052	0.5052	
2	CL	4.217	0.147367	0.9803	0.9803	
3	NO2N	5.013	0.069403	0.2357	0.2357	
4	BR	6.373	0.062700	1.0120	1.0120	
5	NO3N	7.210	0.095842	0.2566	0.2566	
6	PO4	9.353	0.108648	0.9258	0.9258	
8	SO4	11.170	0.251558	2.3929	2.3929	



ANALYZED BY: _____

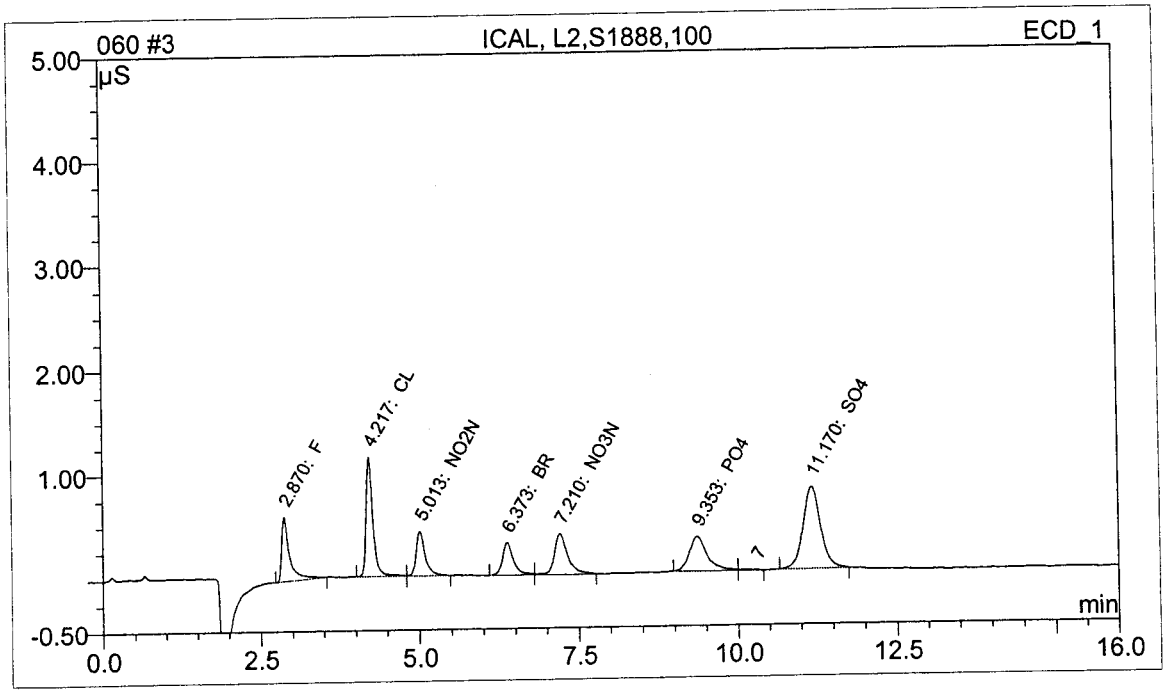
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L2,S1888,100	**Sample No.:**	3
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:20 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.089672	0.4613	0.4613	
2	CL	4.217	0.147367	0.9803	0.9803	
3	NO2N	5.013	0.069403	0.2357	0.2357	
4	BR	6.373	0.062700	1.0120	1.0120	
5	NO3N	7.210	0.095842	0.2566	0.2566	
6	PO4	9.353	0.108648	0.9258	0.9258	
8	SO4	11.170	0.251558	2.3929	2.3929	



ANALYZED BY: _____

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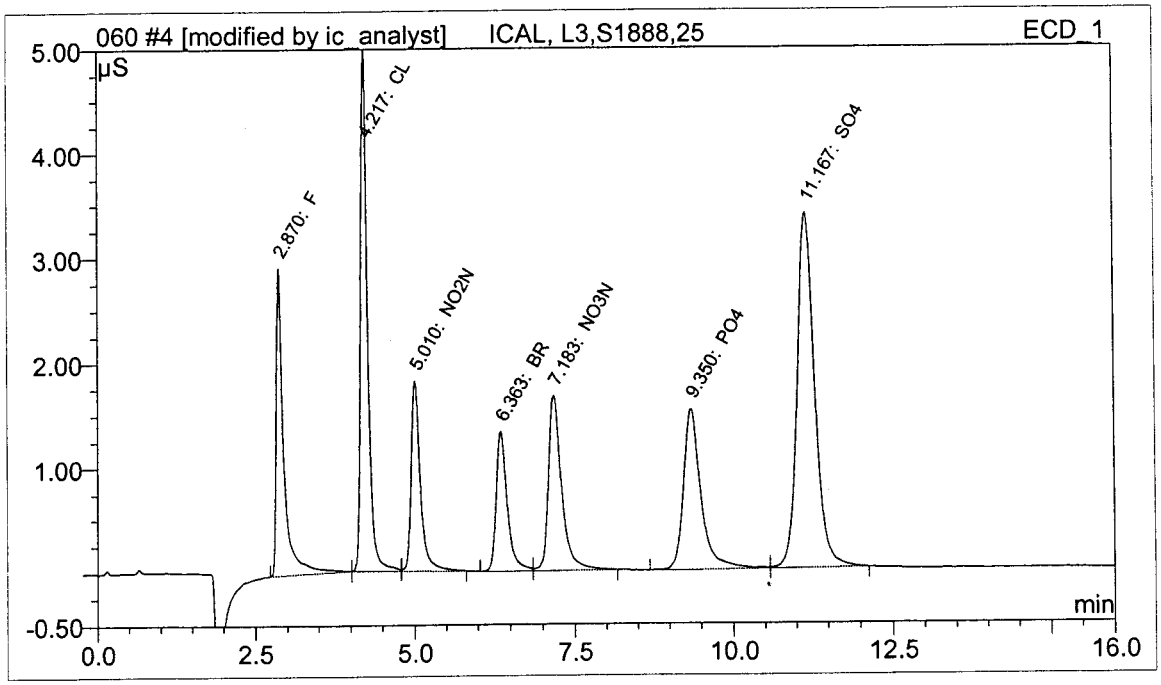
Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L3,S1888,25	**Sample No.:**	4
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:39 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.402286	2.0231	2.0231	
2	CL	4.217	0.629116	4.0722	4.0722	
3	NO2N	5.010	0.303748	1.0189	1.0189	
4	BR	6.363	0.265105	4.2189	4.2189	
5	NO3N	7.183	0.397785	1.0470	1.0470	
6	PO4	9.350	0.496547	4.1277	4.1277	
7	SO4	11.167	1.098657	10.2090	10.2090	



ANALYZED BY: _____

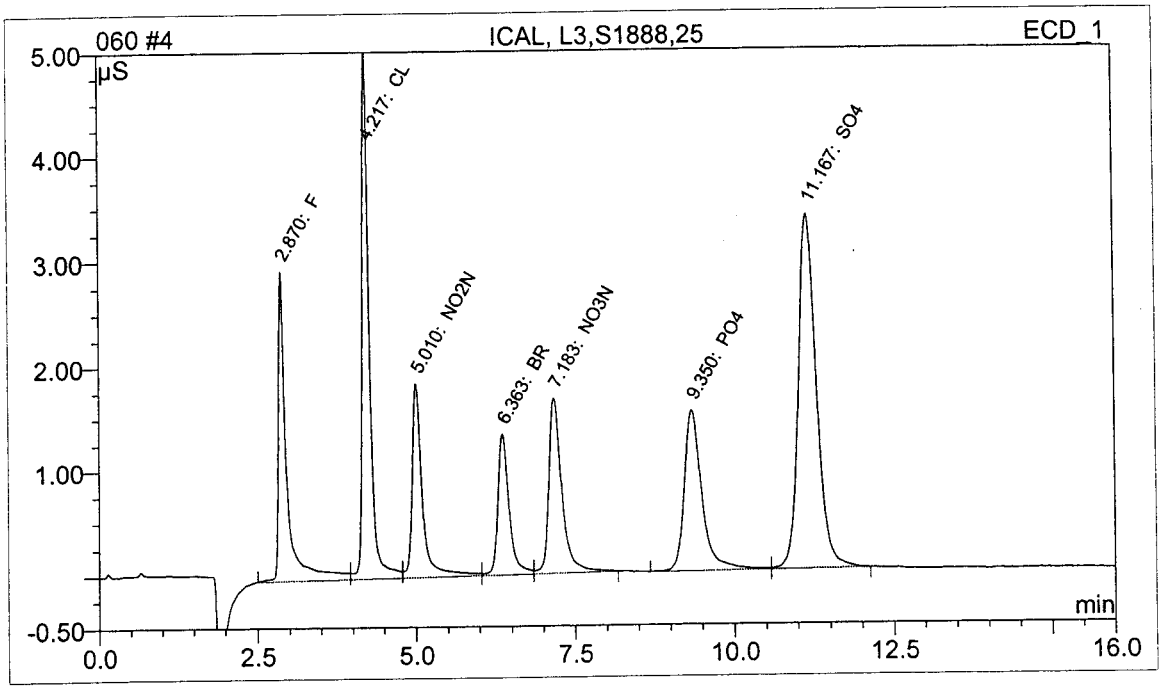
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L3,S1888,25	**Sample No.:**	4
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:39 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.455269	2.2018	2.2018	
2	CL	4.217	0.670131	4.2507	4.2507	
3	NO2N	5.010	0.344377	1.1110	1.1110	
4	BR	6.363	0.276408	4.3412	4.3412	
5	NO3N	7.183	0.404782	1.0595	1.0595	
6	PO4	9.350	0.496547	4.1277	4.1277	
7	SO4	11.167	1.098657	10.2090	10.2090	



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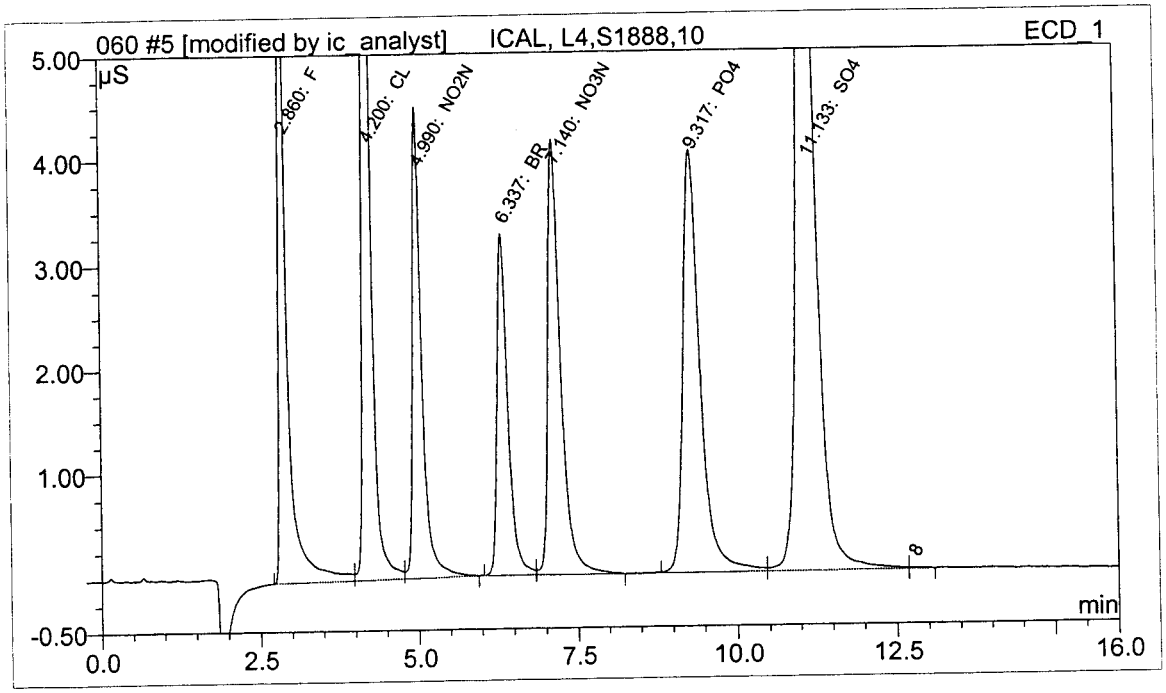
Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L4,S1888,10	**Sample No.:**	5
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:57 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.860	1.029135	4.9857	4.9857	
2	CL	4.200	1.617474	9.9589	9.9589	
3	NO2N	4.990	0.759872	2.4911	2.4911	
4	BR	6.337	0.635291	9.8662	9.8662	
5	NO3N	7.140	0.967493	2.4706	2.4706	
6	PO4	9.317	1.248459	9.9383	9.9383	
7	SO4	11.133	2.795566	24.8943	24.8943	



ANALYZED BY: _____

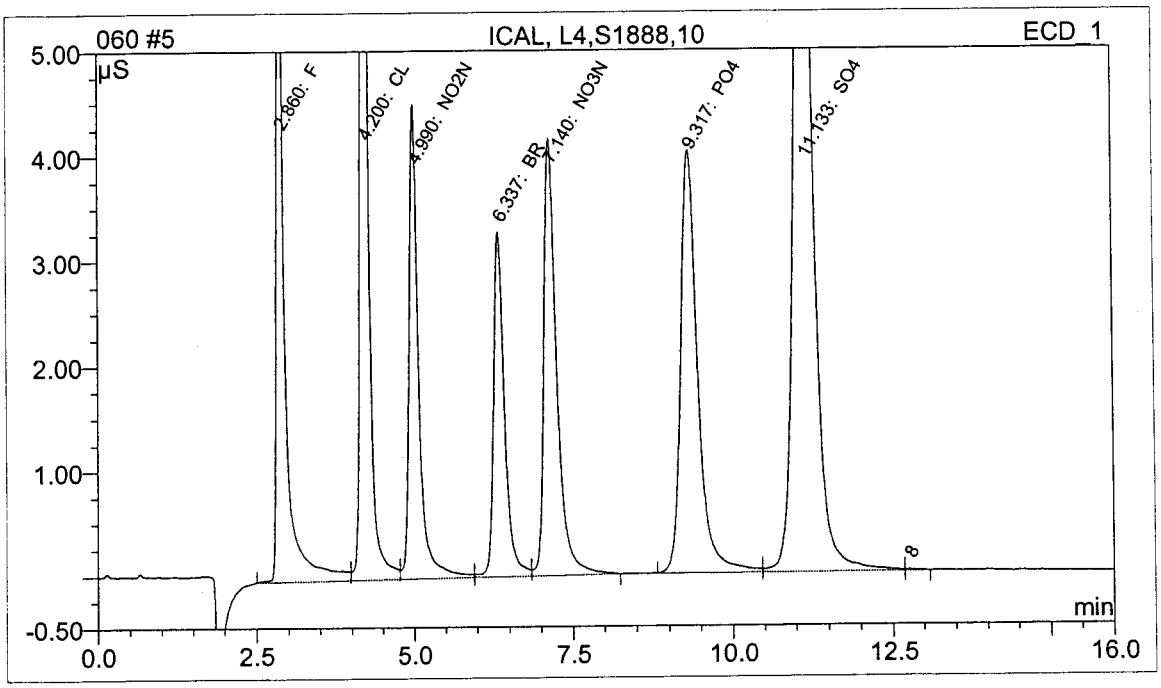
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L4,S1888,10	**Sample No.:**	5
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:57 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.860	1.056871	5.0244	5.0244	
2	CL	4.200	1.636258	9.9916	9.9916	
3	NO2N	4.990	0.792664	2.5227	2.5227	
4	BR	6.337	0.658007	9.9696	9.9696	
5	NO3N	7.140	0.980796	2.4805	2.4805	
6	PO4	9.317	1.248459	9.9383	9.9383	
7	SO4	11.133	2.795566	24.8943	24.8943	



ANALYZED BY: _____

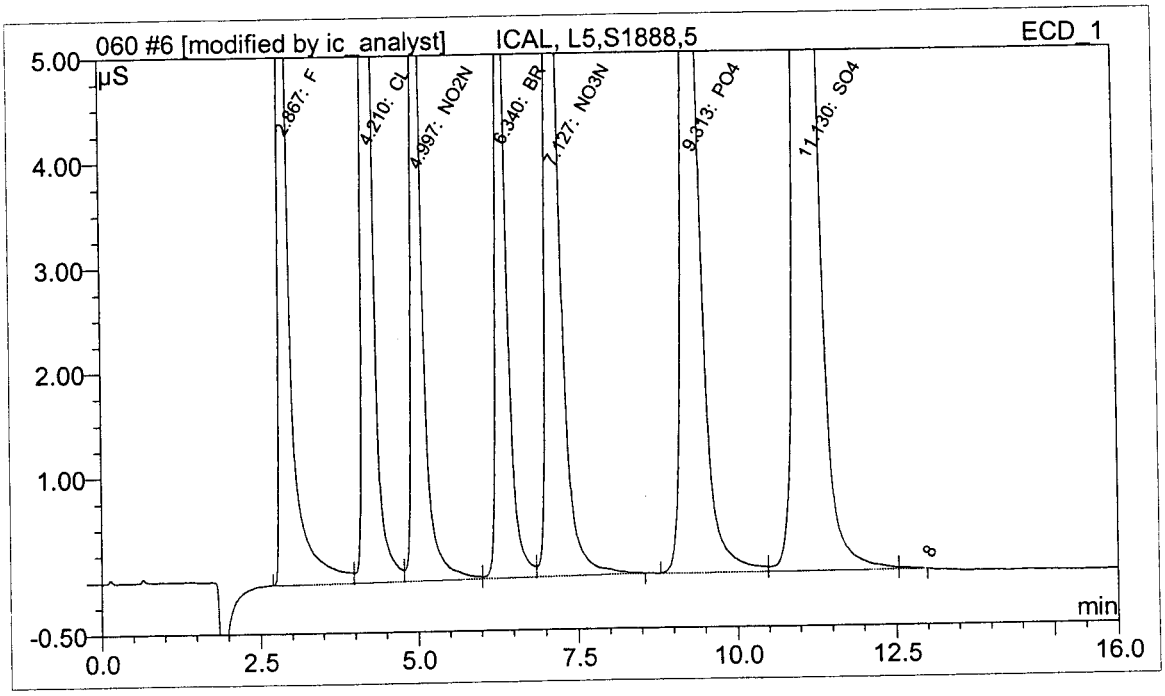
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L5,S1888,5	**Sample No.:**	6
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:15 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.867	2.192959	10.0024	10.0024	
2	CL	4.210	3.519967	20.0067	20.0067	
3	NO2N	4.997	1.584757	5.0014	5.0014	
4	BR	6.340	1.345233	20.0232	20.0232	
5	NO3N	7.127	2.063887	5.0051	5.0051	
6	PO4	9.313	2.698316	20.0096	20.0096	
7	SO4	11.130	6.017213	50.0167	50.0167	



ANALYZED BY:

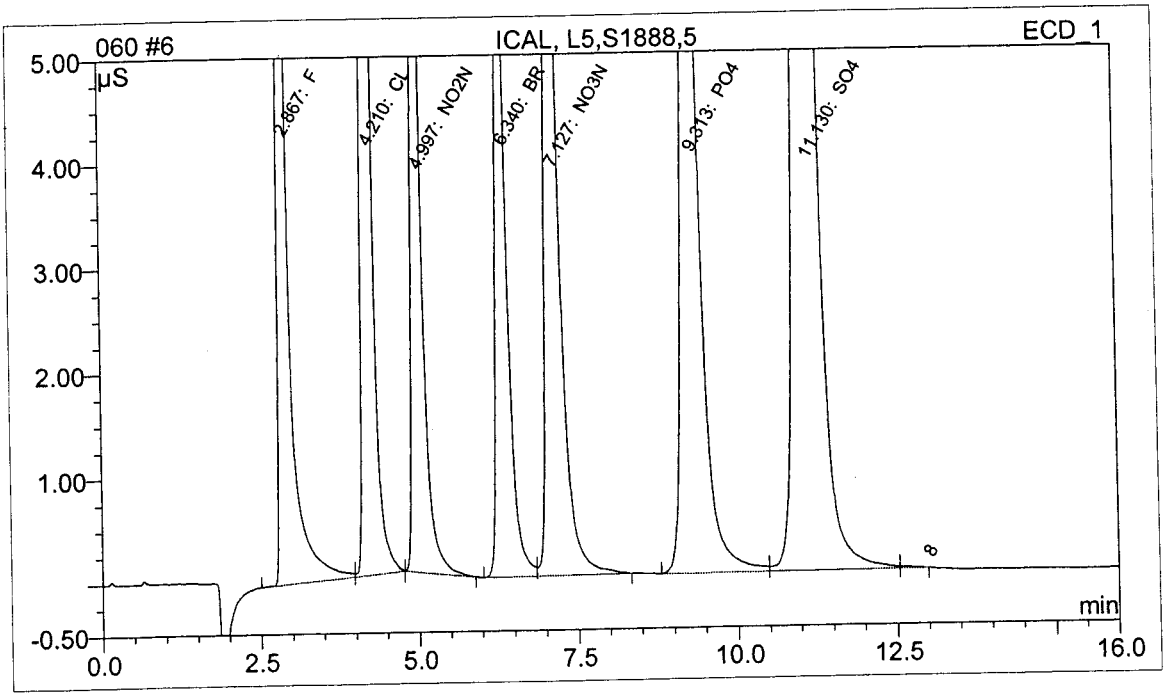
REVIEWED BY:

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L5,S1888,5	**Sample No.:**	6
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:15 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.867	2.155657	10.0007	10.0007	
2	CL	4.210	3.453075	20.0031	20.0031	
3	NO2N	4.997	1.510616	4.9988	4.9988	
4	BR	6.340	1.331781	20.0216	20.0216	
5	NO3N	7.127	2.045893	5.0047	5.0047	
6	PO4	9.313	2.698316	20.0096	20.0096	
7	SO4	11.130	6.017213	50.0167	50.0167	



ANALYZED BY: _____

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Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 185679 IC Water
EPA 300.0

Inst : IC03
Calnum : 626087283001 Cal Date: 01-MAR-2006

ICV 626087283007 (060_7.000 01-MAR-2006) stds: S1085 (5X)

Analyte	Spiked	Quant	Units	%D	Max	Flags
Fluoride	1.000	0.9473	mg/L	-5	10	
Chloride	2.000	1.920	mg/L	-4	10	
Nitrogen, Nitrite	0.5000	0.4860	mg/L	-3	10	
Nitrogen, Nitrate	0.5000	0.4606	mg/L	-8	10	
Sulfate	5.000	5.047	mg/L	1	10	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 300.0

Inst : IC03
Seqnum : 626087283007
Cal : 626087283001
Standards: S1085 (5X)

File : 060_7.000
Caldate: 01-MAR-2006

IDF : 1.0
Time : 01-MAR-2006 16:34

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Fluoride	0.1990	0.1858	1.000	0.9473	mg/L	-5	10	
Chloride	0.1686	0.1455	2.000	1.920	mg/L	-4	10	
Nitrogen, Nitrite	0.2943	0.2873	0.5000	0.4860	mg/L	-3	10	
Bromide	0.0614	0.0638	2.000	2.050	mg/L	2	10	
Nitrogen, Nitrate	0.3874	0.3456	0.5000	0.4606	mg/L	-8	10	
Orthophosphate (as P)	0.1182	0.1201	2.000	2.029	mg/L	1	10	
Sulfate	0.1099	0.1070	5.000	5.047	mg/L	1	10	

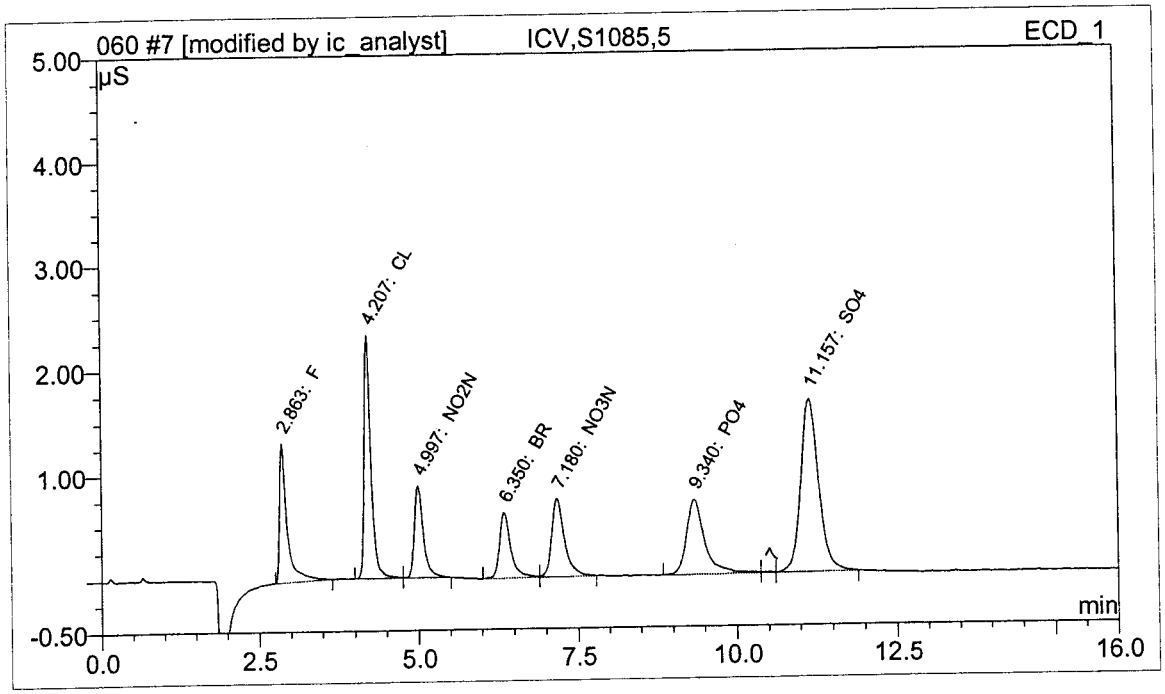
MRS 3/2/06

3/2/06

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:34 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.863	0.185760	0.9473	0.9473	
2	CL	4.207	0.291093	1.9202	1.9202	
3	NO2N	4.997	0.143651	0.4860	0.4860	
4	BR	6.350	0.127568	2.0496	2.0496	
5	NO3N	7.180	0.172776	0.4606	0.4606	
6	PO4	9.340	0.240207	2.0292	2.0292	
8	SO4	11.157	0.534812	5.0468	5.0468	



ANALYZED BY: _____

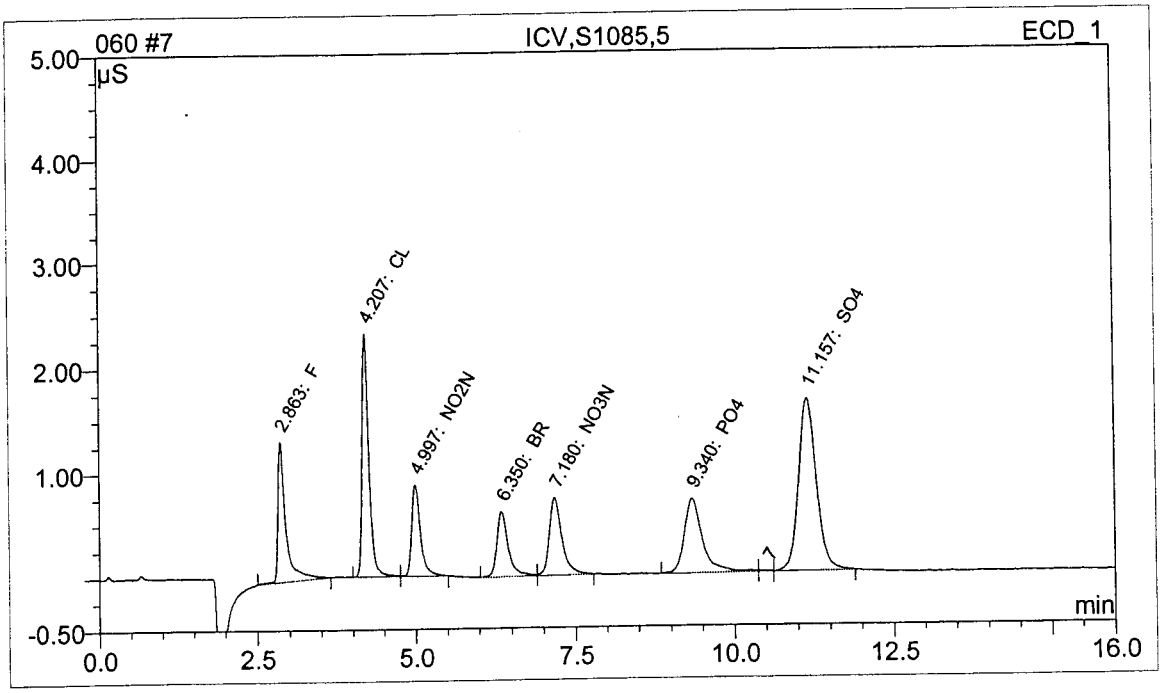
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:34 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.863	0.193974	0.9887	0.9887	
2	CL	4.207	0.291093	1.9202	1.9202	
3	NO2N	4.997	0.143651	0.4860	0.4860	
4	BR	6.350	0.127568	2.0496	2.0496	
5	NO3N	7.180	0.172776	0.4606	0.4606	
6	PO4	9.340	0.240207	2.0292	2.0292	
8	SO4	11.157	0.534812	5.0468	5.0468	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CONTINUING CALIBRATION SUMMARY FOR 185679 IC Water
Curtis & Tompkins Laboratories

Analyte: Fluoride

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606116191007	21-MAR-2006 13:00	606046871001	01-FEB-2006	0.2814	0.2557	0.5000	0.4566	mg/L	-9	10	
IC01	P	606116191019	21-MAR-2006 17:44	606046871001	01-FEB-2006	0.2814	0.2696	2.0000	1.8944	mg/L	-5	10	
IC01	P	606116191033	21-MAR-2006 21:49	606046871001	01-FEB-2006	0.2814	0.2878	5.0000	4.8926	mg/L	-2	10	
IC03	P	626116036007	21-MAR-2006 13:00	626087283001	01-MAR-2006	0.1990	0.1782	0.5000	0.4573	mg/L	-9	10	
IC03	P	626116036018	21-MAR-2006 17:48	626087283001	01-MAR-2006	0.1990	0.1911	2.0000	1.9247	mg/L	-4	10	
IC03	P	626116036034	21-MAR-2006 22:42	626087283001	01-MAR-2006	0.1990	0.2128	5.0000	5.1436	mg/L	3	10	
IC03	P	626116036051	22-MAR-2006 03:55	626087283001	01-MAR-2006	0.1990	0.1972	0.5000	0.5057	mg/L	1	10	
IC03	P	626116036065	22-MAR-2006 08:13	626087283001	01-MAR-2006	0.1990	0.1955	2.0000	1.9674	mg/L	-2	10	

CONTINUING CALIBRATION SUMMARY FOR 185679 IC Water
Curtis & Tompkins Laboratories

Analyte: Chloride

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606116191007	21-MAR-2006 13:00	606046871001	01-FEB-2006	0.1842	0.1643	1.0000	0.9386	mg/L	-6	10	
IC01	P	606116191019	21-MAR-2006 17:44	606046871001	01-FEB-2006	0.1842	0.1796	4.0000	3.9929	mg/L	0	10	
IC01	P	606116191033	21-MAR-2006 21:49	606046871001	01-FEB-2006	0.1842	0.1914	10.000	10.093	mg/L	1	10	
IC03	P	626116036007	21-MAR-2006 13:00	626087283001	01-MAR-2006	0.1686	0.1413	1.0000	0.9402	mg/L	-6	10	
IC03	P	626116036018	21-MAR-2006 17:48	626087283001	01-MAR-2006	0.1686	0.1491	4.0000	3.8683	mg/L	-3	10	
IC03	P	626116036034	21-MAR-2006 22:42	626087283001	01-MAR-2006	0.1686	0.1629	10.000	10.024	mg/L	0	10	
IC03	P	626116036051	22-MAR-2006 03:55	626087283001	01-MAR-2006	0.1686	0.1439	1.0000	0.9577	mg/L	-4	10	
IC03	P	626116036065	22-MAR-2006 08:13	626087283001	01-MAR-2006	0.1686	0.1515	4.0000	3.9280	mg/L	-2	10	
IC03	P	626116036074	22-MAR-2006 10:59	626087283001	01-MAR-2006	0.1686	0.1616	10.000	9.9478	mg/L	-1	10	

CONTINUING CALIBRATION SUMMARY FOR 185679 IC Water
Curtis & Tompkins Laboratories

Analyte: Nitrogen, Nitrite

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606116191007	21-MAR-2006 13:00	606046871001	01-FEB-2006	0.3733	0.3274	0.2500	0.2283	mg/L	-9	10	
IC01	P	606116191019	21-MAR-2006 17:44	606046871001	01-FEB-2006	0.3733	0.3598	1.0000	0.9926	mg/L	-1	10	
IC01	P	606116191033	21-MAR-2006 21:49	606046871001	01-FEB-2006	0.3733	0.3674	2.5000	2.4823	mg/L	-1	10	
IC03	P	626116036007	21-MAR-2006 13:00	626087283001	01-MAR-2006	0.2943	0.2820	0.2500	0.2394	mg/L	-4	10	
IC03	P	626116036018	21-MAR-2006 17:48	626087283001	01-MAR-2006	0.2943	0.2849	1.0000	0.9565	mg/L	-4	10	
IC03	P	626116036034	21-MAR-2006 22:42	626087283001	01-MAR-2006	0.2943	0.3071	2.5000	2.5156	mg/L	1	10	
IC03	P	626116036051	22-MAR-2006 03:55	626087283001	01-MAR-2006	0.2943	0.2700	0.2500	0.2293	mg/L	-8	10	
IC03	P	626116036065	22-MAR-2006 08:13	626087283001	01-MAR-2006	0.2943	0.2916	1.0000	0.9788	mg/L	-2	10	

CONTINUING CALIBRATION SUMMARY FOR 185679 IC Water
Curtis & Tompkins Laboratories

Analyte: Nitrogen, Nitrate

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606116191007	21-MAR-2006 13:00	606046871001	01-FEB-2006	0.4558	0.4207	0.2500	0.2379	mg/L	-5	10	
IC01	P	606116191019	21-MAR-2006 17:44	606046871001	01-FEB-2006	0.4558	0.4594	1.0000	1.0237	mg/L	2	10	
IC01	P	606116191033	21-MAR-2006 21:49	606046871001	01-FEB-2006	0.4558	0.4749	2.5000	2.5711	mg/L	3	10	
IC03	P	626116036007	21-MAR-2006 13:00	626087283001	01-MAR-2006	0.3874	0.3379	0.2500	0.2264	mg/L	-9	10	
IC03	P	626116036018	21-MAR-2006 17:48	626087283001	01-MAR-2006	0.3874	0.3741	1.0000	0.9858	mg/L	-1	10	
IC03	P	626116036034	21-MAR-2006 22:42	626087283001	01-MAR-2006	0.3874	0.3924	2.5000	2.5035	mg/L	0	10	
IC03	P	626116036051	22-MAR-2006 03:55	626087283001	01-MAR-2006	0.3874	0.3484	0.2500	0.2334	mg/L	-7	10	
IC03	P	626116036065	22-MAR-2006 08:13	626087283001	01-MAR-2006	0.3874	0.3813	1.0000	1.0044	mg/L	0	10	
IC03	P	626116036074	22-MAR-2006 10:59	626087283001	01-MAR-2006	0.3874	0.3954	2.5000	2.5215	mg/L	1	10	

CONTINUING CALIBRATION SUMMARY FOR 185679 IC Water
Curtis & Tompkins Laboratories

Analyte: Sulfate

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606116191007	21-MAR-2006 13:00	606046871001	01-FEB-2006	0.1305	0.1192	2.5000	2.3495	mg/L	-6	10	
IC01	P	606116191019	21-MAR-2006 17:44	606046871001	01-FEB-2006	0.1305	0.1287	10.000	9.9664	mg/L	0	10	
IC01	P	606116191033	21-MAR-2006 21:49	606046871001	01-FEB-2006	0.1305	0.1363	25.000	25.467	mg/L	2	10	
IC03	P	626116036007	21-MAR-2006 13:00	626087283001	01-MAR-2006	0.1099	0.1029	2.5000	2.4467	mg/L	-2	10	
IC03	P	626116036018	21-MAR-2006 17:48	626087283001	01-MAR-2006	0.1099	0.1031	10.000	9.5990	mg/L	-4	10	
IC03	P	626116036034	21-MAR-2006 22:42	626087283001	01-MAR-2006	0.1099	0.1122	25.000	24.971	mg/L	0	10	
IC03	P	626116036051	22-MAR-2006 03:55	626087283001	01-MAR-2006	0.1099	0.1000	2.5000	2.3791	mg/L	-5	10	
IC03	P	626116036065	22-MAR-2006 08:13	626087283001	01-MAR-2006	0.1099	0.1078	10.000	10.018	mg/L	0	10	
IC03	P	626116036074	22-MAR-2006 10:59	626087283001	01-MAR-2006	0.1099	0.1136	25.000	25.270	mg/L	1	10	

CURTIS & TOMPKINS BLANK USER REPORT FOR 185679 IC Water
EPA 300.0

Inst	: IC01	Lab ID	: QC332605		
Seqnum	: 606116191008.1	Matrix	: Water		
File	: 080_8.000	Batch	: 111578	Time	: 21-MAR-2006 13:18
IDF	: 1.0	PDF	: 1.0	Units	: mg/L
Cal	: 606046871001	Caldate	: 01-FEB-2006		

Analyte	Result	RL	Flags
Fluoride	ND	0.10	
Chloride	ND	0.20	
Nitrogen, Nitrite	ND	0.05	
Nitrogen, Nitrate	ND	0.05	
Sulfate	ND	0.50	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185679 IC Water
EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606116191020 File : 080_20.000 Time : 21-MAR-2006 18:01
Cal : 606046871001 Caldate: 01-FEB-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.006664	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185679 IC Water
EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606116191034 File : 080_34.000 Time : 21-MAR-2006 22:06
Cal : 606046871001 Caldate: 01-FEB-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.006664	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

CURTIS & TOMPKINS BLANK USER REPORT FOR 185679 IC Water
EPA 300.0

Inst	: IC03	Lab ID	: QC332611		
Seqnum	: 626116036008.1	Matrix	: Water		
File	: 080_8.000	Batch	: 111579	Time	: 21-MAR-2006 13:19
IDF	: 1.0	PDF	: 1.0	Units	: mg/L
Cal	: 626087283001	Caldate	: 01-MAR-2006		

Analyte	Result	RL	Flags
Fluoride	ND	0.10	
Chloride	ND	0.20	
Nitrogen, Nitrite	ND	0.05	
Nitrogen, Nitrate	ND	0.05	
Sulfate	ND	0.50	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185679 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626116036019 File : 080_19.000 Time : 21-MAR-2006 18:06
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185679 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626116036035 File : 080_35.000 Time : 21-MAR-2006 23:01
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185679 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626116036052 File : 080_52.000 Time : 22-MAR-2006 04:14
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185679 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626116036066 File : 080_66.000 Time : 22-MAR-2006 08:31
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 185679 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626116036075 File : 080_75.000 Time : 22-MAR-2006 11:17
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

SEQUENCE SUMMARY FOR 185679 IC Water
Curtis & Tompkins Laboratories

Sequence: 606046871 Instrument: IC01 Ion Chromatograph Begun: 01-FEB-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	032_1.00	IB				01-FEB-2006 13:11	1.0		25				
002	032_2.00	ICAL	L1			01-FEB-2006 13:28	1.0					1	
003	032_3.00	ICAL	L2			01-FEB-2006 13:46	1.0					1	
004	032_4.00	ICAL	L3			01-FEB-2006 14:03	1.0					1	
005	032_5.00	ICAL	L4			01-FEB-2006 14:21	1.0					1	
006	032_6.00	ICAL	L5			01-FEB-2006 14:38	1.0					1	
007	032_7.00	ICV				01-FEB-2006 14:56	1.0	1	25			2	
008	032_8.00	ICB/MB	QC326493	110078	Water	01-FEB-2006 15:13	1.0	1	25				
009	032_9.00	BS	QC326494	110078	Water	01-FEB-2006 15:31	1.0	1	25			1	
010	032_10.0	BSD	QC326495	110078	Water	01-FEB-2006 15:48	1.0	1	25			1	
011	032_11.0	SAMPLE	184665-001	110078	Water	01-FEB-2006 16:19	1.0	1	25				1:CL=32.4397
012	032_12.0	SAMPLE	184665-005	110078	Water	01-FEB-2006 16:37	1.0	1	25				1:CL=32.5432
013	032_13.0	MSS	184665-006	110078	Water	01-FEB-2006 16:54	1.0	2	25				1:CL=34.9403
014	032_14.0	SAMPLE	184665-007	110078	Water	01-FEB-2006 17:12	1.0		25				
015	032_15.0	SAMPLE	184646-001	110078	Water	01-FEB-2006 17:29	100.0		25				
016	032_16.0	SAMPLE	184646-002	110078	Water	01-FEB-2006 17:47	100.0		25				
017	032_17.0	SAMPLE	184646-003	110078	Water	01-FEB-2006 18:04	100.0		25				
018	032_18.0	CCV	M	110078		01-FEB-2006 18:22	1.0		25			1	
019	032_19.0	CCB		110078		01-FEB-2006 18:39	1.0		25				
020	032_20.0	SAMPLE	184646-004	110078	Water	01-FEB-2006 18:57	100.0		25				
021	032_21.0	SAMPLE	184606-003	110078	Water	01-FEB-2006 19:14	1.0		25				1:CL=67.2883
022	032_22.0	SAMPLE	184606-006	110078	Water	01-FEB-2006 19:32	1.0	1	25				3:SO4=258.533
023	032_23.0	X	BLK	110078		01-FEB-2006 19:49	1.0						
024	032_24.0	SAMPLE	184665-008	110078	Water	01-FEB-2006 20:07	1.0		25				
025	032_25.0	SAMPLE	184665-009	110078	Water	01-FEB-2006 20:24	1.0	1	25				1:CL=23.2597
026	032_26.0	SAMPLE	184665-001	110078	Water	01-FEB-2006 20:42	2.0		25				
027	032_27.0	SAMPLE	184665-005	110078	Water	01-FEB-2006 20:59	2.0		25				
028	032_28.0	MSS	184665-006	110078	Water	01-FEB-2006 21:17	2.0	1	25				
029	032_29.0	MS	QC326496	110078	Water	01-FEB-2006 21:34	5.0	1	25			1	
030	032_30.0	MSD	QC326497	110078	Water	01-FEB-2006 21:52	5.0	1	25			1	
031	032_31.0	CCV	H	110078		01-FEB-2006 22:10	1.0	1	25			1	

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Stds used: 1=S1888 2=S1085

SEQUENCE SUMMARY FOR 185679 IC Water
Curtis & Tompkins Laboratories

Sequence: 606046871 Instrument: IC01 Ion Chromatograph Begun: 01-FEB-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
032	032_32.0	CCB		110078		01-FEB-2006 22:27	1.0	1		25				
033	032_33.0	X	CCV	110078		01-FEB-2006 22:45	1.0						1	
034	032_34.0	X	CCB	110078		01-FEB-2006 23:02	1.0							
035	032_35.0	SAMPLE	184665-009	110078	Water	01-FEB-2006 23:20	2.0			25				
036	032_36.0	SAMPLE	184669-006	110078	Water	01-FEB-2006 23:37	100.0			25				
037	032_37.0	SAMPLE	184669-006	110078	Water	01-FEB-2006 23:55	10.0	1		25				1:NO3N=9.88433
038	032_38.0	X	BLK	110078		02-FEB-2006 00:12	1.0							
039	032_39.0	SAMPLE	184606-006	110078	Water	02-FEB-2006 00:30	2.0			25				2:SO4=142.830
040	032_40.0	X	BLK	110078		02-FEB-2006 00:47	1.0							
041	032_41.0	SAMPLE	184646-001	110078	Water	02-FEB-2006 01:05	1.0			25				
042	032_42.0	X	BLK	110078		02-FEB-2006 01:22	1.0							
043	032_43.0	SAMPLE	184646-002	110078	Water	02-FEB-2006 01:40	1.0			25				
044	032_44.0	X	BLK	110078		02-FEB-2006 01:57	1.0							
045	032_45.0	SAMPLE	184646-003	110078	Water	02-FEB-2006 02:15	1.0			25				
046	032_46.0	X	BLK	110078		02-FEB-2006 02:32	1.0							
047	032_47.0	SAMPLE	184646-004	110078	Water	02-FEB-2006 02:50	1.0			25				
048	032_48.0	X	BLK	110078		02-FEB-2006 03:07	1.0							
049	032_49.0	X	BLK	110078		02-FEB-2006 03:25	1.0							
050	032_50.0	X	CCV	110078		02-FEB-2006 03:42	1.0						1	
051	032_51.0	X	CCB	110078		02-FEB-2006 04:00	1.0							
052	032_52.0	CCV	L	110078		02-FEB-2006 04:17	1.0	2		25			1	
053	032_53.0	CCB		110078		02-FEB-2006 04:35	1.0			25				
054	032_54.0	X	SHUTDOWN	110078		02-FEB-2006 04:52	1.0							

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Stds used: 1=S1888 2=S1085

SEQUENCE SUMMARY FOR 185679 IC Water
Curtis & Tompkins Laboratories

Sequence: 626087283 Instrument: IC03 Ion Chromatograph Begun: 01-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC SPK uL	VL	pH	Stds Used	>LR
001	060_1.00	IB				01-MAR-2006 14:43	1.0	25				
002	060_2.00	ICAL	L1			01-MAR-2006 15:02	1.0				1	
003	060_3.00	ICAL	L2			01-MAR-2006 15:20	1.0				1	
004	060_4.00	ICAL	L3			01-MAR-2006 15:39	1.0				1	
005	060_5.00	ICAL	L4			01-MAR-2006 15:57	1.0				1	
006	060_6.00	ICAL	L5			01-MAR-2006 16:15	1.0				1	
007	060_7.00	ICV				01-MAR-2006 16:34	1.0	25			2	
008	060_8.00	ICB				01-MAR-2006 16:52	1.0	25				

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Stds used: 1=S1888 2=S1085

SEQUENCE SUMMARY FOR 185679 IC Water
Curtis & Tompkins Laboratories

Sequence: 606116191 Instrument: IC01 Ion Chromatograph Begun: 21-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
007	080_7.00	CCV	L	111578		21-MAR-2006 13:00	1.0			25			1	
008	080_8.00	CCB/MB	QC332605	111578	Water	21-MAR-2006 13:18	1.0			25				
009	080_9.00	BS	QC332606	111578	Water	21-MAR-2006 13:35	1.0			25			1	
010	080_10.0	BSD	QC332607	111578	Water	21-MAR-2006 13:53	1.0			25			1	
011	080_11.0	SAMPLE	185652-001	111578	Water	21-MAR-2006 14:32	1.0			25				
012	080_12.0	SAMPLE	185668-004	111578	Water	21-MAR-2006 15:39	1.0	1		25				2:SO4=612.048
013	080_13.0	X	BLK	111578		21-MAR-2006 15:56	1.0							
014	080_14.0	MSS	185664-002	111578	Water	21-MAR-2006 16:14	10.0	2		25				1:CL=354.445
015	080_15.0	SSPIKE	QC332610	111578	Water	21-MAR-2006 16:31	10.0			25			1	1:CL=355.566
016	080_16.0	MSS	185679-020	111578	Water	21-MAR-2006 16:51	1.0	3		25				2:CL=85.8219
017	080_17.0	SAMPLE	185679-021	111578	Water	21-MAR-2006 17:09	1.0	2		25				2:CL=98.7307
018	080_18.0	SAMPLE	185668-006	111578	Water	21-MAR-2006 17:26	1.0			25				
019	080_19.0	CCV	M	111578		21-MAR-2006 17:44	1.0	1		25			1	
020	080_20.0	CCB		111578		21-MAR-2006 18:01	1.0	1		25				
021	080_21.0	X	CCV	111578		21-MAR-2006 18:19	1.0						1	
022	080_22.0	X	CCB	111578		21-MAR-2006 18:36	1.0							
023	080_23.0	SAMPLE	185668-007	111578	Water	21-MAR-2006 18:54	1.0	1		25				2:SO4=53.5257
024	080_24.0	MSS	185679-020	111578	Water	21-MAR-2006 19:11	25.0	1		25				
025	080_25.0	MS	QC332608	111578	Water	21-MAR-2006 19:29	25.0			25			1	
026	080_26.0	MSD	QC332609	111578	Water	21-MAR-2006 19:46	25.0			25			1	
027	080_27.0	SAMPLE	185679-021	111578	Water	21-MAR-2006 20:04	25.0			25				
028	080_28.0	SAMPLE	185668-008	111578	Water	21-MAR-2006 20:21	1.0	1		25				2:SO4=128.099
029	080_29.0	SAMPLE	185668-009	111578	Water	21-MAR-2006 20:39	1.0	1		25				2:SO4=99.8190
030	080_30.0	SAMPLE	185668-010	111578	Water	21-MAR-2006 20:56	1.0	1		25				2:SO4=98.7238
031	080_31.0	SAMPLE	185668-005	111578	Water	21-MAR-2006 21:14	1.0	1		25				2:SO4=164.994
032	080_32.0	SAMPLE	185668-002	111578	Water	21-MAR-2006 21:31	1.0	1		25				2:SO4=181.082
033	080_33.0	CCV	H	111578		21-MAR-2006 21:49	1.0	1		25			1	
034	080_34.0	CCB		111578		21-MAR-2006 22:06	1.0			25				
035	080_35.0	X	CCV	111578		21-MAR-2006 22:24	1.0						1	
036	080_36.0	X	CCB	111578		21-MAR-2006 22:41	1.0							
037	080_37.0	SAMPLE	185668-001	111578	Water	21-MAR-2006 22:59	1.0	1		25				2:SO4=191.664

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Stds used: 1=S1888

SEQUENCE SUMMARY FOR 185679 IC Water
Curtis & Tompkins Laboratories

Sequence: 606116191 Instrument: IC01 Ion Chromatograph Begun: 21-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
038	080_38.0	SAMPLE	185668-003	111578	Water	21-MAR-2006 23:16	1.0	1		25			2:SO4=341.458	
039	080_39.0	X	BLK	111578		21-MAR-2006 23:34	1.0							
040	080_40.0	SAMPLE	185668-001	111578	Water	21-MAR-2006 23:51	10.0			25				
041	080_41.0	SAMPLE	185668-002	111578	Water	22-MAR-2006 00:09	10.0			25				
042	080_42.0	SAMPLE	185668-003	111578	Water	22-MAR-2006 00:26	10.0			25				
043	080_43.0	SAMPLE	185668-004	111578	Water	22-MAR-2006 00:44	25.0			25				
044	080_44.0	SAMPLE	185668-005	111578	Water	22-MAR-2006 01:01	5.0			25				
045	080_45.0	SAMPLE	185668-006	111578	Water	22-MAR-2006 01:19	2.0			25				
046	080_46.0	SAMPLE	185668-007	111578	Water	22-MAR-2006 01:36	2.0			25				
047	080_47.0	SAMPLE	185668-008	111578	Water	22-MAR-2006 01:54	5.0			25				
048	080_48.0	CCV	L	111578		22-MAR-2006 02:11	1.0			25			1	
049	080_49.0	CCB		111578		22-MAR-2006 02:29	1.0			25				
050	080_50.0	X	CCV	111578		22-MAR-2006 02:46	1.0						1	
051	080_51.0	X	CCB	111578		22-MAR-2006 03:04	1.0							
052	080_52.0	SAMPLE	185668-009	111578	Water	22-MAR-2006 03:21	5.0			25				545
053	080_53.0	SAMPLE	185668-010	111578	Water	22-MAR-2006 03:39	5.0			25				
054	080_54.0	CCV	M	111578		22-MAR-2006 03:56	1.0			25			1	
055	080_55.0	CCB		111578		22-MAR-2006 04:14	1.0			25				
056	080_56.0	X	CCV	111578		22-MAR-2006 04:31	1.0						1	
057	080_57.0	X	CCB	111578		22-MAR-2006 04:49	1.0							
058	080_58.0	X	SHUTDOWN	111578		22-MAR-2006 05:07	1.0							

Stds used: 1=S1888

SEQUENCE SUMMARY FOR 185679 IC Water
Curtis & Tompkins Laboratories

Sequence: 626116036 Instrument: IC03 Ion Chromatograph Begun: 21-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
007	080_7.00	CCV	L	111579		21-MAR-2006 13:00	1.0	1	25			1	
008	080_8.00	CCB/MB	QC332611	111579	Water	21-MAR-2006 13:19	1.0		25				
009	080_9.00	BS	QC332612	111579	Water	21-MAR-2006 13:37	1.0		25			1	
010	080_10.0	BSD	QC332613	111579	Water	21-MAR-2006 13:56	1.0		25			1	
011	080_11.0	SAMPLE	185664-002	111579	Water	21-MAR-2006 14:35	1000		25				
012	080_12.0	SAMPLE	185664-002	111579	Water	21-MAR-2006 15:32	10.0	1	25				1:CL=352.089
013	080_13.0	SAMPLE	185673-001	111579	Water	21-MAR-2006 16:16	1.0	1	25				2:SO4=159.446
014	080_14.0	SAMPLE	185673-002	111579	Water	21-MAR-2006 16:34	1.0	1	25				2:SO4=159.820
015	080_15.0	SAMPLE	185673-003	111579	Water	21-MAR-2006 16:53	1.0	1	25				2:SO4=150.924
016	080_16.0	SAMPLE	185673-004	111579	Water	21-MAR-2006 17:11	1.0	1	25				2:SO4=149.821
017	080_17.0	SAMPLE	185673-005	111579	Water	21-MAR-2006 17:29	1.0	1	25				2:SO4=175.810
018	080_18.0	CCV	M	111579		21-MAR-2006 17:48	1.0		25			1	
019	080_19.0	CCB		111579		21-MAR-2006 18:06	1.0		25				
020	080_20.0	X	CCV	111579		21-MAR-2006 18:25	1.0					1	
021	080_21.0	X	CCB	111579		21-MAR-2006 18:43	1.0						
022	080_22.0	SAMPLE	185679-010	111579	Water	21-MAR-2006 19:01	1.0		25				
023	080_23.0	MSS	185679-011	111579	Water	21-MAR-2006 19:20	1.0	2	25				2:CL=44.0742
024	080_24.0	X	BLK	111579		21-MAR-2006 19:38	1.0						
025	080_25.0	SAMPLE	185679-019	111579	Water	21-MAR-2006 19:57	1.0	1	25				1:CL=52.0158
026	080_26.0	X	BLK	111579		21-MAR-2006 20:15	1.0						
027	080_27.0	SAMPLE	185679-017	111579	Water	21-MAR-2006 20:34	1.0	2	25				2:CL=74.0745
028	080_28.0	SAMPLE	185679-013	111579	Water	21-MAR-2006 20:52	1.0	2	25				2:CL=63.4477
029	080_29.0	SAMPLE	185679-012	111579	Water	21-MAR-2006 21:10	1.0	2	25				2:CL=48.5501
030	080_30.0	SAMPLE	185679-015	111579	Water	21-MAR-2006 21:29	1.0	1	25				1:CL=59.2151
031	080_31.0	SAMPLE	185679-014	111579	Water	21-MAR-2006 21:47	1.0	2	25				2:CL=77.5587
032	080_32.0	SAMPLE	185679-007	111579	Water	21-MAR-2006 22:06	1.0	2	25				2:SO4=146.175
033	080_33.0	SAMPLE	185679-006	111579	Water	21-MAR-2006 22:24	1.0	2	25				2:SO4=114.490
034	080_34.0	CCV	H	111579		21-MAR-2006 22:42	1.0		25			1	
035	080_35.0	CCB		111579		21-MAR-2006 23:01	1.0		25				
036	080_36.0	X	CCV	111579		21-MAR-2006 23:19	1.0					1	
037	080_37.0	X	CCB	111579		21-MAR-2006 23:38	1.0						

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Stds used: 1=S1888

SEQUENCE SUMMARY FOR 185679 IC Water
Curtis & Tompkins Laboratories

Sequence: 626116036 Instrument: IC03 Ion Chromatograph Begun: 21-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
038	080_38.0	SAMPLE	185679-009	111579	Water	21-MAR-2006 23:56	1.0	1	25				1:CL=40.8877
039	080_39.0	SAMPLE	185679-016	111579	Water	22-MAR-2006 00:14	1.0	2	25				2:CL=123.162
040	080_40.0	SAMPLE	185679-008	111579	Water	22-MAR-2006 00:33	1.0	2	25				2:CL=181.496
041	080_41.0	X	BLK	111579		22-MAR-2006 00:51	1.0						
042	080_42.0	SAMPLE	185673-006	111579	Water	22-MAR-2006 01:10	1.0	1	25				2:SO4=134.405
043	080_43.0	X	BLK	111579		22-MAR-2006 01:28	1.0						
044	080_44.0	X	BLK	111579		22-MAR-2006 01:46	1.0						
045	080_45.0	SAMPLE	185673-001	111579	Water	22-MAR-2006 02:05	5.0		25				
046	080_46.0	SAMPLE	185673-002	111579	Water	22-MAR-2006 02:23	5.0		25				
047	080_47.0	SAMPLE	185673-003	111579	Water	22-MAR-2006 02:42	5.0		25				
048	080_48.0	SAMPLE	185673-004	111579	Water	22-MAR-2006 03:00	5.0		25				
049	080_49.0	SAMPLE	185673-005	111579	Water	22-MAR-2006 03:19	5.0		25				
050	080_50.0	SAMPLE	185673-006	111579	Water	22-MAR-2006 03:37	5.0		25				
051	080_51.0	CCV	L	111579		22-MAR-2006 03:55	1.0		25			1	
052	080_52.0	CCB		111579		22-MAR-2006 04:14	1.0		25				
053	080_53.0	X	CCV	111579		22-MAR-2006 04:32	1.0					1	
054	080_54.0	X	CCB	111579		22-MAR-2006 04:51	1.0						
055	080_55.0	MSS	185679-011	111579	Water	22-MAR-2006 05:09	5.0		25				
056	080_56.0	MS	QC332614	111579	Water	22-MAR-2006 05:27	5.0		25			1	
057	080_57.0	MSD	QC332615	111579	Water	22-MAR-2006 05:46	5.0		25			1	
058	080_58.0	SAMPLE	185679-006	111579	Water	22-MAR-2006 06:04	25.0		25				
059	080_59.0	SAMPLE	185679-007	111579	Water	22-MAR-2006 06:23	25.0		25				
060	080_60.0	SAMPLE	185679-008	111579	Water	22-MAR-2006 06:41	50.0		25				
061	080_61.0	SAMPLE	185679-009	111579	Water	22-MAR-2006 06:59	25.0		25				
062	080_62.0	SAMPLE	185679-010	111579	Water	22-MAR-2006 07:18	2.0		25				
063	080_63.0	SAMPLE	185679-012	111579	Water	22-MAR-2006 07:36	10.0		25				
064	080_64.0	SAMPLE	185679-017	111579	Water	22-MAR-2006 07:55	10.0		25				
065	080_65.0	CCV	M	111579		22-MAR-2006 08:13	1.0		25			1	
066	080_66.0	CCB		111579		22-MAR-2006 08:31	1.0		25				
067	080_67.0	X	CCV	111579		22-MAR-2006 08:50	1.0					1	
068	080_68.0	X	CCB	111579		22-MAR-2006 09:08	1.0						

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Stds used: 1=S1888

SEQUENCE SUMMARY FOR 185679 IC Water
Curtis & Tompkins Laboratories

Sequence: 626116036 Instrument: IC03 Ion Chromatograph Begun: 21-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC SPK uL	VL	pH	Stds Used	>LR
069	080_69.0	SAMPLE	185679-014	111579	Water	22-MAR-2006 09:27	25.0	25				
070	080_70.0	SAMPLE	185679-015	111579	Water	22-MAR-2006 09:45	10.0	25				
071	080_71.0	SAMPLE	185679-016	111579	Water	22-MAR-2006 10:04	25.0	25				
072	080_72.0	SAMPLE	185679-013	111579	Water	22-MAR-2006 10:22	10.0	25				
073	080_73.0	SAMPLE	185679-019	111579	Water	22-MAR-2006 10:40	5.0	25				
074	080_74.0	CCV	H	111579		22-MAR-2006 10:59	1.0	25			1	
075	080_75.0	CCB		111579		22-MAR-2006 11:17	1.0	25				
076	080_76.0	X	CCV	111579		22-MAR-2006 11:36	1.0				1	
077	080_77.0	X	CCB	111579		22-MAR-2006 11:54	1.0					
078	080_78.0	X	SHUTDOWN	111579		22-MAR-2006 12:12	1.0					

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Stds used: 1=S1888

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185679 IC Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	CL	NO2N	NO3N	SO4
185679-006	IC03	03/21/06 22:24	1.0	+		+	+	
185679-006	IC03	03/22/06 06:04	25.0		+			+
185679-007	IC03	03/21/06 22:06	1.0	+		+	+	
185679-007	IC03	03/22/06 06:23	25.0		+			+
185679-008	IC03	03/22/06 00:33	1.0	+		+	+	
185679-008	IC03	03/22/06 06:41	50.0		+			+
185679-009	IC03	03/21/06 23:56	1.0	+		+	+	+
185679-009	IC03	03/22/06 06:59	25.0		+			
185679-010	IC03	03/21/06 19:01	1.0	+	+	+	+	+
185679-010	IC03	03/22/06 07:18	2.0					
185679-011	IC03	03/21/06 19:20	1.0	+		+		+
185679-011	IC03	03/22/06 05:09	5.0		+		+	
185679-012	IC03	03/21/06 21:10	1.0	+		+		+
185679-012	IC03	03/22/06 07:36	10.0		+		+	
185679-013	IC03	03/21/06 20:52	1.0	+		+		+
185679-013	IC03	03/22/06 10:22	10.0		+		+	
185679-014	IC03	03/21/06 21:47	1.0	+		+		+
185679-014	IC03	03/22/06 09:27	25.0		+		+	
185679-015	IC03	03/21/06 21:29	1.0	+		+	+	+
185679-015	IC03	03/22/06 09:45	10.0		+			
185679-016	IC03	03/22/06 00:14	1.0	+		+	+	
185679-016	IC03	03/22/06 10:04	25.0		+			+
185679-017	IC03	03/21/06 20:34	1.0	+		+		+
185679-017	IC03	03/22/06 07:55	10.0		+		+	
185679-019	IC03	03/21/06 19:57	1.0	+		+	+	+
185679-019	IC03	03/22/06 10:40	5.0		+			
185679-020	IC01	03/21/06 16:51	1.0	+		+	+	
185679-020	IC01	03/21/06 19:11	25.0		+			+
185679-021	IC01	03/21/06 17:09	1.0	+		+	+	
185679-021	IC01	03/21/06 20:04	25.0		+			+
QC332605	IC01	03/21/06 13:18	1.0	+	+	+	+	+

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185679 IC Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	CL	NO2N	NO3N	SO4	
QC332606	IC01	03/21/06 13:35	1.0	+	+	+	+	+	
QC332607	IC01	03/21/06 13:53	1.0	+	+	+	+	+	
QC332608	IC01	03/21/06 19:29	25.0	+	+	+	+	+	
QC332609	IC01	03/21/06 19:46	25.0	+	+	+	+	+	
QC332610	IC01	03/21/06 16:31	10.0	+	+	+	+	+	
QC332611	IC03	03/21/06 13:19	1.0	+	+	+	+	+	
QC332612	IC03	03/21/06 13:37	1.0	+	+	+	+	+	
QC332613	IC03	03/21/06 13:56	1.0	+	+	+	+	+	
QC332614	IC03	03/22/06 05:27	5.0	+	+	+	+	+	
QC332615	IC03	03/22/06 05:46	5.0	+	+	+	+	+	

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111578
Date Started: 21-MAR-2006
Batched by : Micah Smith

Analysis : N/A
Bgroup : IC
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185652-001			Electro-Coatings	Water	NITRATE, NITRITE	30-MAR-2006
185664-002			New Logic Research	Water	FLUORIDE, NITRATE, SULFATE	31-MAR-2006
185668-001			GeoSyntec Consulta	Water	NITRATE, SULFATE	27-MAR-2006
185668-002			GeoSyntec Consulta	Water	NITRATE, SULFATE	27-MAR-2006
185668-003			GeoSyntec Consulta	Water	NITRATE, SULFATE	27-MAR-2006
185668-004			GeoSyntec Consulta	Water	NITRATE, SULFATE	27-MAR-2006
185668-005			GeoSyntec Consulta	Water	NITRATE, SULFATE	27-MAR-2006
185668-006			GeoSyntec Consulta	Water	NITRATE, SULFATE	27-MAR-2006
185668-007			GeoSyntec Consulta	Water	NITRATE, SULFATE	27-MAR-2006
185668-008			GeoSyntec Consulta	Water	NITRATE, SULFATE	27-MAR-2006
185668-009			GeoSyntec Consulta	Water	NITRATE, SULFATE	27-MAR-2006
185668-010			GeoSyntec Consulta	Water	NITRATE, SULFATE	27-MAR-2006
185679-020			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	31-MAR-2006
185679-021			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	31-MAR-2006
QC332605	BLANK			Water		
QC332606	BS			Water		
QC332607	BSD			Water		
QC332608	MS	of 185679-020		Water		
QC332609	MSD	of 185679-020		Water		
QC332610	SSPIKE	of 185664-002		Water		

Curtis & Tompkins, Ltd. **Water Prep Log** Ion Chromatography

Analysis: ☒ Anions EPA 300 / EPA 9056
☐ Perchlorate (ClO_4) EPA 314
☐ Cr6+ EPA 7199

Batch#: 111578
Date Started: 3/21/06
Prep Chemist: MRJ

BK 2267
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	Sample #	Conductivity	Estimated Dilution Factor	Filters Used	Comments
1	185652 -001 E	0.03	1X	S	
2	185664 -002 D	27.0	10X	S	SSPIKE sample
3	185668 -001 BCD	0.96	1X / 10X	S	Comp. 4ml of each Bottle B,C,D
4	-002	0.91	/ 10X		
5	-003	1.52	/ 10X		
6	-004	2.08	/ 25X		
7	-005	0.84	/ 5X		
8	-006	0.11	/ 2X		
9	-007	0.23	/ 2X		
10	-008	0.58	/ 5X		
11	-009	0.63	/ 5X		
12	-010	0.66	/ 5X		
13	185679 -020 I	1.20	1X / 25X	S	MSS
14	-021 I	1.31	1X / 25X	S	
15	Blank QC332605	N/A	1X	N/A	
16	BS QC332606				
17	BSD QC332607				
18	MS QC332608 I		25X	S	of 185679-020I
19	MSD QC332609 I		25X	S	of 185679-020I
20	SSPIKE QC332610 D		10X	S	of 185664-002D

		Mfg & Lot # / Time / Program	Initials / Date
Eluent Reagent ID		100X CP 12/6/05	MRJ 3/21/06
BS/BSD Spiked with	0.2 mL of :	S1888	
MS/MSD Spiked with	0.1 mL of :	S1888	
Filters Used:	Ag: OnGuard II Ag	N/A	
	Na: OnGuard II Na		
	P: OnGuard II P		
	RP: OnGuard II RP		
	S: 0.20um/0.45um	Acrodisc lot #A10539346	

MRJ 3/21/06
Extraction Chemist / Date

Continued from page ___
Continued on page ___

CP 3/22/06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111579
Date Started: 21-MAR-2006
Batched by : Micah Smith

Analysis : N/A
Bgroup : IC
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
185664-002			New Logic Research	Water	CHLORIDE	31-MAR-2006
185673-001			LFR Levine Fricke	Water	NITRATE, SULFATE	27-MAR-2006
185673-002			LFR Levine Fricke	Water	NITRATE, SULFATE	27-MAR-2006
185673-003			LFR Levine Fricke	Water	NITRATE, SULFATE	27-MAR-2006
185673-004			LFR Levine Fricke	Water	NITRATE, SULFATE	27-MAR-2006
185673-005			LFR Levine Fricke	Water	NITRATE, SULFATE	27-MAR-2006
185673-006			LFR Levine Fricke	Water	NITRATE, SULFATE	27-MAR-2006
185679-006			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	31-MAR-2006
185679-007			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	31-MAR-2006
185679-008			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	31-MAR-2006
185679-009			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	31-MAR-2006
185679-010			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	31-MAR-2006
185679-011			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	31-MAR-2006
185679-012			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	31-MAR-2006
185679-013			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	31-MAR-2006
185679-014			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	31-MAR-2006
185679-015			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	31-MAR-2006
185679-016			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	31-MAR-2006
185679-017			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	31-MAR-2006
185679-019			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	31-MAR-2006
QC332611	BLANK			Water		
QC332612	BS			Water		
QC332613	BSD			Water		
QC332614	MS	of 185679-011		Water		
QC332615	MSD	of 185679-011		Water		

Curtis & Tompkins, Ltd. **Water Prep Log** Ion Chromatography

Analysis: ☒ Anions EPA 300 / EPA 9056
☐ Perchlorate (ClO_4) EPA 314
☐ Cr6+ EPA 7199

Batch#: 111579
Date Started: 3/21/06
Prep Chemist: MRS

BK 2267
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	Sample #	Conductivity	Estimated Dilution Factor	Filters Used	Comments
1	185664-002 D	27.0	1000x	S	
2	185673-001 D	1.33	1x / 5x	S	
3	-002	1.32	/		
4	-003	1.08	/		
5	-004	1.09	/		
6	-005	1.08	/		
7	-006	1.18	/		
8	185679-006 E	1.08	1x / 25x	S	
9	-007 E	1.06	/ 25x		
10	-008 H	1.98	/ 50x		
11	-009 K	1.14	/ 25x		
12	-010 C	0.19	/ 2x		
13	-011 G	0.51	/ 5x		MSS
14	-012 C	0.71	/ 10x		
15	-013	0.70	/ 10x		
16	-014	1.00	/ 25x		
17	-015	0.73	/ 10x		
18	-016	MRS 3/21/06 ~~1.44~~ 1.41	/ 25x		
19	-017 E	0.71	/ 10x		
20	-019 F	0.45	/ 5x		
	Blank QC ~~332566~~ MRS 3/21/06 332611	N/A	1x	N/A	
	BS QC332612				
	BSD QC332613				
	MS QC332614 G		5x	S	
	MSD QC332615 G		5x	S	

	Mfg & Lot # / Time / Program	Initials / Date
Eluent Reagent ID	100x CP 12/6/05	MRS 3/21/06
BS/BSD Spiked with 0.2 mL of :	S1888	
MS/MSD Spiked with 0.1 mL of :	S1888	
Filters Used: Ag: OnGuard II Ag	N/A	
Na: OnGuard II Na		
P: OnGuard II P		
RP: OnGuard II RP		
S: 0.20um/0.45um	Acrodisc lot # A1053946	

MRS 3/21/06
Extraction Chemist / Date

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Continued from page ____
Continued on page ____

CP 3/22/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 300.0 Water
As of 04/29/06

Analyte	Units	IC03	IC01
Fluoride	mg/L	0.023	0.018
Chloride	mg/L	0.032	0.026
Nitrogen, Nitrite	mg/L	0.012	0.0067
Bromide	mg/L	0.028	0.058
Nitrogen, Nitrate	mg/L	0.0088	0.018
Orthophosphate (as P)	mg/L	0.037	0.045
Sulfate	mg/L	0.079	0.046

Curtis & Tompkins, Ltd.

Total Cyanide

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 335.2
Analyte:	Cyanide	Batch#:	111846
Matrix:	Water	Sampled:	03/20/06
Units:	mg/L	Received:	03/21/06
Diln Fac:	1.000	Analyzed:	03/30/06

Field ID	Type	Lab ID	Result	RL
NKGW02	SAMPLE	185679-001	ND	0.01
NKGW05	SAMPLE	185679-002	0.01	0.01
NKGW01	SAMPLE	185679-003	ND	0.01
NKGW04	SAMPLE	185679-004	ND	0.01
DUP0320061A	SAMPLE	185679-005	ND	0.01
LF01GW06	SAMPLE	185679-010	ND	0.01
LF02GW04	SAMPLE	185679-011	ND	0.01
LF01GW07	SAMPLE	185679-012	ND	0.01
LF01GW04	SAMPLE	185679-013	ND	0.01
LF01GW03	SAMPLE	185679-014	ND	0.01
LF01GW05	SAMPLE	185679-015	ND	0.01
LF02GW02	SAMPLE	185679-016	ND	0.01
	BLANK	QC333678	ND	0.01

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Cyanide

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 335.2
Analyte:	Cyanide	Diln Fac:	1.000
Field ID:	LF02GW04	Batch#:	111846
MSS Lab ID:	185679-011	Sampled:	03/20/06
Matrix:	Water	Received:	03/21/06
Units:	mg/L	Analyzed:	03/30/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC333679	<0.01000	0.2020	0.2168	107	65-135		
MSD	QC333680		0.2020	0.2152	107	65-135	1	20
LCS	QC333681		0.2020	0.2142	106	75-125		
LCS	QC333682		0.1010	0.1054	104	75-125		

RPD= Relative Percent Difference

Analysis: **Cyanide**
Method: **EPA 335.2** / SMWW 4500CN-E
Instrument: HP UV-VIS Spectrometer
Wavelength: 578 nm

Matrix: Water
Batch: **111846**
Prep Date: **3/30/2006**
Analysis Date: **3/30/2006**
Analyst: DMc

SAMPLE & BATCH QC DATA

Sample ID	Vol (mL) Distilled	Final Distill Vol (mL)	Distillate Colored (mL)	Instrument Dilution	ABS	**Report mg/L**	Reporting Limit (mg/L)	Vol Spike Added (mL)	Std Conc. (mg/L)	Spiked @ (mg/L)	**% Rec**	**% RPD**
MB	50.0	50.0	20.0	1.00	-0.0008	**ND**	0.010					
LCS	50.0	50.0	20.0	1.00	0.2441	**0.2142**	0.010	0.5	20.2	0.202	**106**	
LCS	50.0	50.0	20.0	1.00	0.1201	**0.1054**	0.010	0.250	20.2	0.101	**104**	
185679-11	50.0	50.0	20.0	1.00	0.0034	**ND**	0.010					
185679-11ms	50.0	50.0	20.0	1.00	0.2471	**0.2168**	0.010	0.5	20.2	0.202	**107**	558
185679-11ms	50.0	50.0	20.0	1.00	0.2453	**0.2152**	0.010	0.5	20.2	0.202	**107**	**1**
185679-1	50.0	50.0	20.0	1.00	0.0052	**ND**	0.010					
185679-2	50.0	50.0	20.0	1.00	0.0130	**0.0114**	0.010					
185679-3	50.0	50.0	20.0	1.00	0.0036	**ND**	0.010					
185679-4	50.0	50.0	20.0	1.00	0.0017	**ND**	0.010					
185679-5	50.0	50.0	20.0	1.00	0.0001	**ND**	0.010					
185679-10	50.0	50.0	20.0	1.00	0.0024	**ND**	0.010					
185679-12	50.0	50.0	20.0	1.00	0.0012	**ND**	0.010					
185679-13	50.0	50.0	20.0	1.00	0.0026	**ND**	0.010					
185679-14	50.0	50.0	20.0	1.00	0.0011	**ND**	0.010					
185679-15	50.0	50.0	20.0	1.00	0.0032	**ND**	0.010					
185679-16	50.0	50.0	20.0	1.00	0.0011	**ND**	0.010					
185791-1	50.0	50.0	20.0	1.00	0.0110	**ND**	0.010					

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	80 - 120
MS/ MSD	20	69 - 120

Reviewed by/ Date: 3.31.06

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13	CCV	Analytical	+0.1924	0.16137
14	CCB	Analytical	-0.0000	0.00000
15	185679-13	Analytical	+0.0026	0.00219
16	185679-14	Analytical	+0.0011	9.342E-04
17	185679-15	Analytical	+0.0032	0.00265
18	185679-16	Analytical	+0.0011	9.214E-04
19	185791-1	Analytical	+0.0110	0.00925
20	LCS	Analytical	+0.2441	0.20468
21	LCS	Analytical	+0.1201	0.10071
22	MB	Analytical	-0.0008	0.00000
23	CCV	Analytical	+0.1944	0.16301
24	CCB	Analytical	+0.0007	5.759E-04

Date : 03-~~23~~ 30-2006
Time : 14:01:23 3-30-06
Operator : Not Entered

---> **Standard Calibration Report** <---

File Name : C:\UV\DATA\MDCN705.STD

Sample Name : cyanide
Solvent Name : CAL 7/5/05
Conc Units : mg/L

Analytical Wavelength : 578 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

Analytical Function Concentration = +8.387E-01 * Absorbance

STD #	Concentration	Absorbance	% Error
1	0.00000	-.0009	*****
2	0.00884	0.0086	+22.699 %
3	0.01768	0.0195	+8.106 %
4	0.05304	0.0618	+2.340 %
5	0.08840	0.1033	+2.023 %
6	0.14144	0.1679	+0.471 %
7	0.17680	0.2081	+1.290 %
8	0.26520	0.3195	-1.022 %

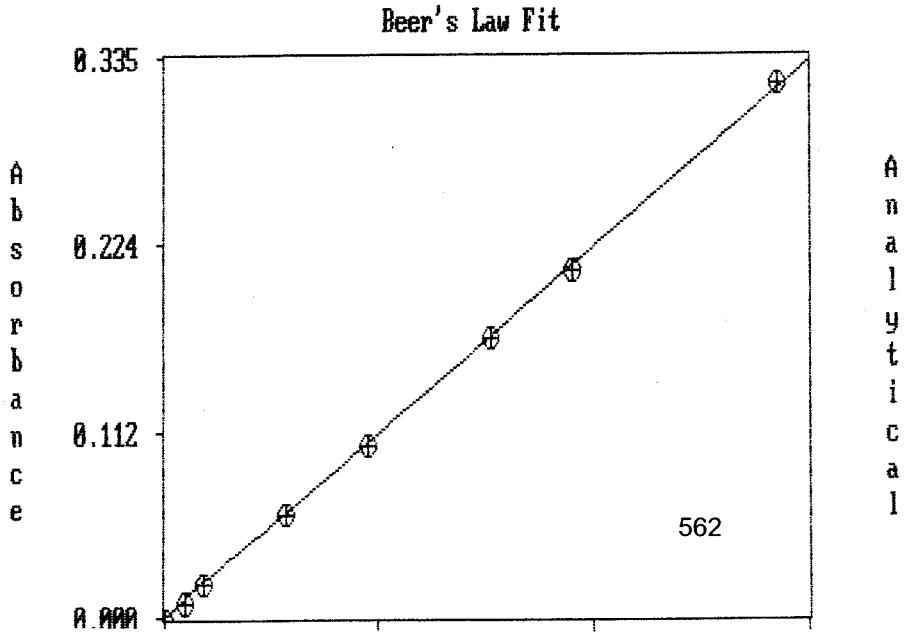
Date : 03-~~23~~ 30-2006
Time : 14:01:25 3-30-06
Operator : Not Entered

---> Standard Calibration Report <---

File Name : C:\UV\DATA\MDCN705.STD

Sample Name : cyanide
Solvent Name : CAL 7/5/05
Conc Units : mg/L

Analytical Wavelength : 578 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds



---> Quantitation Results Report <---

Date : 03-~~23~~ 30-2006
Time : 14:00:54
Operator : Not Entered

File Name : Data not stored yet

Sample Name : cyanide
Solvent Name : CAL 7/5/05
Conc Units : mg/L
Dil. Factor : 1.00

Analytical Wavelength : 578 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

SAMPLE #	Sample Name	Wavelength	Func. Res.	Concentration
1	ICB	Analytical	+0.0006	5.119E-04
2	ICV	Analytical	+0.1987	0.16663
3	185679-1	Analytical	+0.0052	0.00436
4	185679-2	Analytical	+0.0130	0.01094
5	185679-3	Analytical	+0.0036	0.00305
6	185679-4	Analytical	+0.0017	0.00141
7	185679-5	Analytical	+0.0001	7.678E-05
8	185679-10	Analytical	+0.0024	0.00202
9	185679-11	Analytical	+0.0034	0.00282
10	185679-11MS	Analytical	+0.2471	0.20722
11	185679-11MSD	Analytical	+0.2453	0.20571
12	185679-12	Analytical	+0.0012	0.00104

CN EPA 335.2M / 9010 - 9014 B 111846

Sample	Vol (ml)	Final Vol (ml)	Vol (ml) for Color	ABS
185679-1H	50	50	20	.0052
-2				.0130
-3				.0036
-4				.0017
-5				.0001
-10 B				.0024
-11 E				.0034
-11MS	+.5ml (20.2 ug/ml dilnof FS2649, 1ml → 50ml)			.2471
-11MSD	same as MS			.2453
-12 B				.0012
-13				.0026
-14				.0011
-15				.0032
-16				.0011
185791-1E				.0110
LCS	same as MS			.2441
LCS	same as MS ÷ 2			.1201
MB				-.0008
ICB				.0006
ICV	2ml (20.2 ug/ml dilnof S 2649) 750		20ml	.1987 TV: .162 mg/L
CCV				.1924
CCB				-.0000
CCV				.1944
CCB				.0007

Results for Cl2 S = negative; pH all >12 sulfamic acid added to all samples.

Continued on Page

Read and Understood By

Signed 3-30-06 Date Signed 3-31-06 Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111846
Date Started: 30-MAR-2006
Batched by : Dennis McCanna

Analysis : CYANIDE
Bgroup : N/A
Department : Wet Chemistry

Sample	Type	Client	Matrix	Analyses	Due Date
185679-001		Treadwell & Rollo	Water	CYANIDE	31-MAR-2006
185679-002		Treadwell & Rollo	Water	CYANIDE	31-MAR-2006
185679-003		Treadwell & Rollo	Water	CYANIDE	31-MAR-2006
185679-004		Treadwell & Rollo	Water	CYANIDE	31-MAR-2006
185679-005		Treadwell & Rollo	Water	CYANIDE	31-MAR-2006
185679-010		Treadwell & Rollo	Water	CYANIDE	31-MAR-2006
185679-011		Treadwell & Rollo	Water	CYANIDE	31-MAR-2006
185679-012		Treadwell & Rollo	Water	CYANIDE	31-MAR-2006
185679-013		Treadwell & Rollo	Water	CYANIDE	31-MAR-2006
185679-014		Treadwell & Rollo	Water	CYANIDE	31-MAR-2006
185679-015		Treadwell & Rollo	Water	CYANIDE	31-MAR-2006
185679-016		Treadwell & Rollo	Water	CYANIDE	31-MAR-2006
185791-001		TRC Environmental	Water	CYANIDE	31-MAR-2006
QC333678	BLANK		Water	CYANIDE	
QC333679	MS of 185679-011		Water	CYANIDE	
QC333680	MSD of 185679-011		Water	CYANIDE	
QC333681	LCS		Water	CYANIDE	
QC333682	LCS		Water	CYANIDE	

Method Detection Limit Study

Analysis:	**Cyanide**	Matrix:	**Water**
Method:	EPA 335.2 mod*	Analysis Date:	8/24/2005
Instrument:	HP UV/VIS Spectrometer	Analyst:	DMc
	* using the midi-distillation apparatus		

Concentration:	0.0195	mg/L
1	0.0215	
2	0.0173	
3	0.0192	
4	0.0197	
5	0.0200	
6	0.0199	
7	0.0183	
8		
Average	0.0194	
STDEVP	0.00124	
Student's t	2.998	

(Student-T value for 7 replicates = 3.143, for 8 replicates = 2.998)

MDL = Student T * StdDev:	**0.0037**	mg/L
Reporting Limit:	0.0100	mg/L
Status:	PASS	>1/3 RL

Curtis & Tompkins, Ltd.

Sulfide

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 376.2
Analyte:	Sulfide	Batch#:	111713
Matrix:	Water	Received:	03/21/06
Units:	mg/L	Analyzed:	03/27/06
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL	Sampled
LF6GW105	SAMPLE	185679-006	ND	0.04	03/20/06
LF6GW106	SAMPLE	185679-007	ND	0.04	03/20/06
600GW107	SAMPLE	185679-009	ND	0.04	03/20/06
610SP01	SAMPLE	185679-020	ND	0.04	03/21/06
610SP02	SAMPLE	185679-021	ND	0.04	03/21/06
	BLANK	QC333151	ND	0.04	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Sulfide

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 376.2
Analyte:	Sulfide	Diln Fac:	1.000
Field ID:	610SP02	Batch#:	111713
MSS Lab ID:	185679-021	Sampled:	03/21/06
Matrix:	Water	Received:	03/21/06
Units:	mg/L	Analyzed:	03/27/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC333152	<0.04000	0.2854	0	0 NM	75-125		
MSD	QC333153		0.2854	0	0 NM	75-125	0	20
LCS	QC333154		0.4282	0.4558	106	75-125		

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Analysis:	**SULFIDE**	Matrix:	Water
Method:	**EPA 376.2**	Batch:	**111713**
Instrument:	HP UV-VIS Spectrometer	Prep Date:	**3/27/2006**
Wavelength:	626 nm	Analysis Date:	**3/278/2006**
SOP#:	sulfide_376_rv 4.doc	Analyst:	DM

INITIAL CALIBRATION DATA

Calibration Date: 11/15/05

Conc (mg/L)	Absorb	RF
0.0000	0.0001	
0.0233	0.0090	0.3863
0.0466	0.0156	0.3348
0.1862	0.0555	0.2981
0.3725	0.1650	0.4430
0.7450	0.3293	0.4420
1.3040	0.5687	0.4361
1.6760	0.7467	0.4455

Correlation Coefficient (r):	0.9994
Avg Rf:	0.3980
%RSD:	15.1

Note: Average Rf used to calculate sample results.

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CONTINUING CALIBRATION DATA

	Absorb	Conc (mg/L)	True (mg/L)	Recovery	CV Limits
ICV	0.1814	0.4558	0.4282	106%	90 - 110%
ICB	0.0001	0.0003	0.0000		
CCV	0.1834	0.4609	0.4282	108%	90 - 110%
CCB	0.0001	0.0003	0.0000		

Analysis:	**SULFIDE**	Batch:	**1111713**
Method:	**EPA 376.2**	Prep Date:	**3/27/2006**
Instrument:	HP UV-VIS Spectrometer	Analysis Date:	**3/278/2006**
Wavelength:	626 nm	Analyst:	DM
Matrix:	Water		

SAMPLE & BATCH QC DATA

Sample ID	Sample Vol (mL)	D.F.	Sample Absorb	Color Blk Absorb	**Report mg/L**	Reporting Limit (mg/L)	Vol Spike Added (mL)	Std Conc. (mg/L)	Spiked @ (mg/L)	**% Rec**	**% RPD**
MB	7.5000	1.0000	0.0004		**ND**	0.040					
LCS	7.5000	1.0000	0.1814		**0.45583**	0.040	1.0000	42.8160	0.4282	**106**	
185679-21	7.5000	1.0000	0.0000		**ND**	0.040					
185679-21ms	7.5000	1.0000	0.0001		**ND**	0.040	0.0500	42.8160	0.2854	**0**	
185679-21-msc	7.5000	1.0000	0.0001		**ND**	0.040	0.0500	42.8160	0.2854	**0**	
185679-6	7.5000	1.0000	0.0006		**ND**	0.040					
185679-7	7.5000	1.0000	0.0002		**ND**	0.040					
185679-20	7.5000	1.0000	-0.0008		**ND**	0.040					
4/20/06 ~~185622-8~~ 185679-9	7.5000	1.0000	-0.0012		**ND**	0.040					

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QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	20	42 - 121

Reviewed by/ Date: 3.31.06

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---> **Quantitation Results Report** <---

Date : 03-20-2006
Time : 13:29:02
Operator : Not Entered

File Name : Data not stored yet

Sample Name : sulfide
Solvent Name : CAL11-15-05
Conc Units : mg/L
Dil. Factor : 1.00

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

SAMPLE #	Sample Name	Wavelength	Func. Res.	Concentratio
1	icb/mb	Analytical	+0.0001	1.729E-04
2	ivcv/lcs	Analytical	+0.1814	0.41103
3	185679-6	Analytical	+0.0006	0.00145
4	185679-7	Analytical	+0.0002	4.149E-04
5	185679-9	Analytical	-0.0008	0.00000
6	185679-20	Analytical	-0.0012	0.00000
7	185679-21	Analytical	+0.0000	0.00000
8	185679-21ms	Analytical	+0.0001	2.420E-04
9	185679-21msd	Analytical	+0.0001	3.112E-04
10	ccv	Analytical	+0.1834	0.41560
11	ccb	Analytical	+0.0001	1.729E-04

---) **Standard Calibration Report** (---

Date : 03-20-2006
Time : 13:29:20
Operator : Not Entered

File Name : C:\UV\DATA\ss1105.STD

Sample Name : sulfide
Solvent Name : CAL11-15-05
Conc Units : mg/L

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

Analytical Function Concentration = +2.266E+00 * Absorbance

STD #	Concentration	Absorbance	% Error
1	0.00000	0.0001	*****
2	0.37250	0.1650	-0.366 %
3	0.74500	0.3293	-0.135 %
4	1.30400	0.5687	+1.198 %
5	1.67600	0.7467	-0.933 %
6	0.02330	0.0090	+14.422 %
7	0.04660	0.0156	+31.758 %
8	0.18620	0.0555	+48.042 %

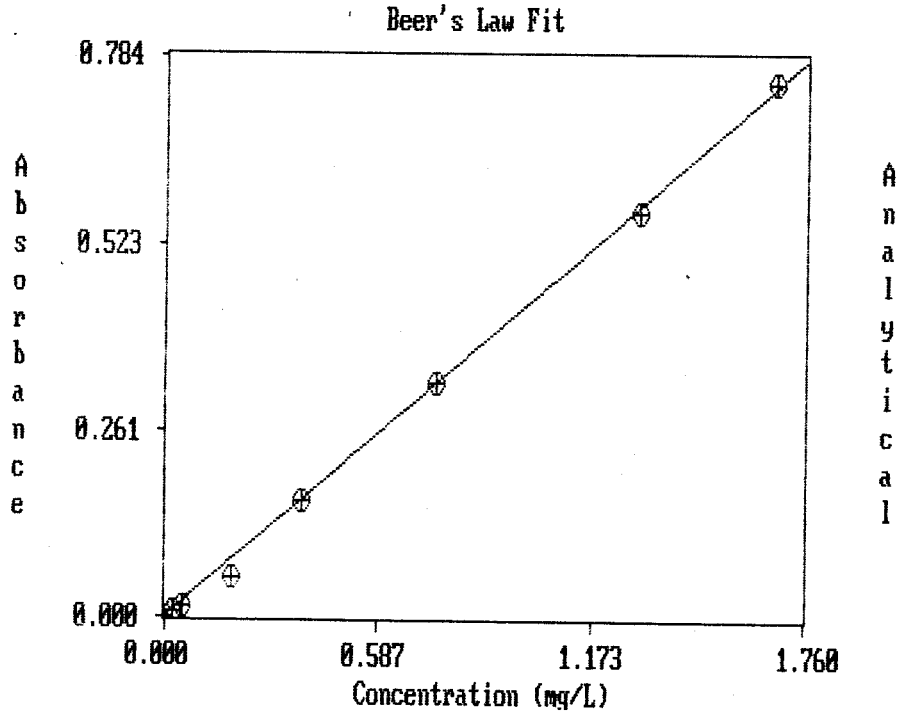
---> Standard Calibration Report <---

Date : 03-20-2006
Time : 13:29:22
Operator : Not Entered

File Name : C:\UV\DATA\ss1105.STD

Sample Name : sulfide
Solvent Name : CAL11-15-05
Conc Units : mg/L

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds



Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111713
Date Started: 27-MAR-2006
Batched by : Dennis McCanna

Analysis : SULFIDE
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185679-006			Treadwell & Rollo	Water	SULFIDE	31-MAR-2006
185679-007			Treadwell & Rollo	Water	SULFIDE	31-MAR-2006
185679-009			Treadwell & Rollo	Water	SULFIDE	31-MAR-2006
185679-020			Treadwell & Rollo	Water	SULFIDE	31-MAR-2006
185679-021			Treadwell & Rollo	Water	SULFIDE	31-MAR-2006
QC333151	BLANK			Water	SULFIDE	
QC333152	MS	of 185679-021		Water	SULFIDE	
QC333153	MSD	of 185679-021		Water	SULFIDE	
QC333154	LCS			Water	SULFIDE	

Analysis:	Sulfide	Analysis Date:	4/14/2005
Method:	EPA 376.2	Analyst:	DM
Instrument:	HP UV/Vis		
Wavelength:	626 nm		

Instrument Calibrated to report sample results in concentration: mg/L

Concentration:	0.1098	
Units:	mg/L	
1	0.100	
2	0.104	
3	0.105	
4	0.096	
5	0.096	
6	0.095	
7	0.092	
Average:	0.098	ug/L
Std Deviation:	0.004691	
Student T:	3.143	

(Student-T value for 7 replicates = 3.143, for 8 replicates = 2.998)

MDL = Student T * StdDev:	**0.0147**	mg/L
Reporting Limit:	0.04	mg/L
Status:	PASS	>1/3 RL

Curtis & Tompkins, Ltd.

Total Dissolved Solids (TDS)

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Units:	mg/L
Matrix:	Water	Received:	03/21/06

Field ID	Type	Lab ID	Result	RL	Diln Fac	Batch#	Sampled	Analyzed
NKGW02	SAMPLE	185679-001	330	50	5.000	111734	03/20/06	03/27/06
NKGW05	SAMPLE	185679-002	1,030	50	5.000	111734	03/20/06	03/27/06
NKGW01	SAMPLE	185679-003	540	50	5.000	111734	03/20/06	03/27/06
NKGW04	SAMPLE	185679-004	420	50	5.000	111734	03/20/06	03/27/06
DUP0320061A	SAMPLE	185679-005	760	50	5.000	111734	03/20/06	03/27/06
LF6GW105	SAMPLE	185679-006	610	50	5.000	111734	03/20/06	03/27/06
LF6GW106	SAMPLE	185679-007	600	50	5.000	111734	03/20/06	03/27/06
1349MW105	SAMPLE	185679-008	960	50	5.000	111734	03/20/06	03/27/06
600GW107	SAMPLE	185679-009	560	50	5.000	111734	03/20/06	03/27/06
LF01GW06	SAMPLE	185679-010	140	50	5.000	111734	03/20/06	03/27/06
LF02GW04	SAMPLE	185679-011	340	50	5.000	111734	03/20/06	03/27/06
LF01GW07	SAMPLE	185679-012	360	50	5.000	111734	03/20/06	03/27/06
LF01GW04	SAMPLE	185679-013	440	50	5.000	111734	03/20/06	03/27/06
LF01GW03	SAMPLE	185679-014	590	50	5.000	111734	03/20/06	03/27/06
LF01GW05	SAMPLE	185679-015	390	50	5.000	111734	03/20/06	03/27/06
LF02GW02	SAMPLE	185679-016	750	50	5.000	111734	03/20/06	03/27/06
LF10GW01	SAMPLE	185679-017	520	50	5.000	111734	03/20/06	03/27/06
LF5SP100	SAMPLE	185679-019	470	50	5.000	111734	03/21/06	03/27/06
610SP01	SAMPLE	185679-020	880 b	50	5.000	112689	03/21/06	04/24/06
610SP02	SAMPLE	185679-021	680	50	5.000	111734	03/21/06	03/27/06
	BLANK	QC333242	ND	10	1.000	111734		03/27/06
	BLANK	QC337011	ND	10	1.000	112689		04/24/06

b= See narrative
ND= Not Detected
RL= Reporting Limit

Batch QC Report

Total Dissolved Solids (TDS)

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Units:	mg/L
Matrix:	Water		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim	Diln Fac	Batch#	Sampled	Received	Analyzed
	BS		QC333243		100.0	112.0		112	79-121			1.000	111734			03/27/06
	BSD		QC333244		100.0	118.0		118	79-121	5	20	1.000	111734			03/27/06
LF02GW04	SDUP	185679-011	QC333245	340.0		410.0	50.00			19	20	5.000	111734	03/20/06	03/21/06	03/27/06
	BS		QC337012		100.0	94.00		94	79-121			1.000	112689			04/24/06
	BSD		QC337013		100.0	84.00		84	79-121	11	20	1.000	112689			04/24/06
ZZZZZZZZZZ	SDUP	186214-001	QC337014	950.0		940.0	50.00			1	20	5.000	112689	04/17/06	04/17/06	04/24/06

578

RL= Reporting Limit
RPD= Relative Percent Difference

55.1

Curtis & Tompkins, Ltd.

Analysis:	**Total Dissolved Solids**	Analysis Date:	**27-Mar-06**
Method:	**EPA160.1** / SMWW 2540c	Batch #:	**111734**
Matrix:	Water	Analyst:	RS
SOP#:	tds_rv 9.doc		

BATCH QC DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)	Spike Std Conc (mg/L)	Spike Vol.Used (mL)	Spiking Level (mg/L)	**Recovery,%**	**RPD,%**
MB	50	1	44.2186	44.2190	0.0004	ND	10					
BS	50	1	41.9008	41.9064	0.0056	112.0	10	1,000	5	100	**112**	
BSD	50	1	49.0752	49.0811	0.0059	118.0	10	1,000	5	100	**118**	**5.22**
185679-011	10	5	25.2293	25.2327	0.0034	340.0	50					
SDUP	10	5	25.7230	25.7271	0.0041	410.0	50					**18.67**

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	79 - 121
MS/ MSD	20	69 - 131

SAMPLE DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)
185679-001	10	5	45.3470	45.3503	0.0033	330.0	50
185679-002	10	5	49.1299	49.1402	0.0103	1,030.0	50
185679-003	10	5	51.2262	51.2316	0.0054	540.0	50
185679-004	10	5	29.5374	29.5416	0.0042	420.0	50
185679-005	10	5	26.3643	26.3719	0.0076	760.0	50
185679-006	10	5	25.4420	25.4481	0.0061	610.0	50
185679-007	10	5	24.7257	24.7317	0.0060	600.0	50
185679-008	10	5	27.1823	27.1919	0.0096	960.0	50
185679-009	10	5	25.4776	25.4832	0.0056	560.0	50
185679-010	10	5	27.1697	27.1711	0.0014	140.0	50
185679-012	10	5	27.4172	27.4208	0.0036	360.0	50
185679-013	10	5	25.0267	25.0311	0.0044	440.0	50
185679-014	10	5	25.0568	25.0627	0.0059	590.0	50
185679-015	10	5	25.9118	25.9157	0.0039	390.0	50
185679-016	10	5	29.2984	29.3059	0.0075	750.0	50
185679-017	10	5	24.1494	24.1546	0.0052	520.0	50
185679-019	10	5	24.8932	24.8979	0.0047	470.0	50
185679-020	10	5	25.5086	25.5068	-0.0018	ND	50
185679-021	10	5	26.6156	26.6224	0.0068	680.0	50

Note: Because the regulatory holding time is based on the prep date, the analysis date referenced above is the prep date.

Reviewed by/ Date: 3-30-6

TDS (Total Dissolved Solids)
EPA 160.1 / SMWW 2540C

Curtis & Tompkins, Ltd.

LIMS Batch #: 111734

Prep Date: 3-27-06
Prep Time: 18:50

Benchbook#: **BK2145**
Page: **93**

Filter Mfg/ Lot#: F1672870
Spike WS#: S2182

Spike WS Conc (mg/L): 1000
Spike Vol Added (mL): 5

	In	Out	In-2	Out-2	In-3	Out-3
Date:	3-27-06	3-28-06	3-28-06	3-28-06		
Time:	20:20	13:00	15:00	16:00		
Temp (C):	90°C	180°C	180°C	180°C		

	Sample # / Letter	EC Value (µS/cm)	Sample Vol. Filtered (mL)	Dish ID	Dish Wt (g)	1st Dry Wt.(g)	2nd Dry Wt (g)*	3rd Dry Wt (g)*
1	MB		50	3	44.2186	44.2190	44.2194	
	BS		↓	5	41.9008	41.9064 RS 3/28	41.9063 RS 3/28	
	BSD		↓	K	49.0752	49.0811	49.0809	
	185679-001I	376	10	4	45.3470	45.3503	45.3500	
5	-002	689	↓	4x	49.1299	49.1402	49.1400	
	-003	900		8	51.2262	51.2316	51.2318	
	-004	411		RS	29.5374	29.5416	29.5420	
	-005	442		RR	26.3643	26.3719	26.3718	
	-006 E	404		MX	25.4420	25.4481	25.4479	
10	-007	893		FKK	24.7257	24.7317	24.7320	
	-008 H	976		LM*	27.1823	27.1919	27.1917	
	-009 K	1,800		18	25.4776	25.4832	25.4831	
	-010 C	1,039		KK	27.1697	27.1711	27.1716	
	-011 G	142.8		SS	25.2293	25.2327	25.2329	
15	-012 B	↓		LX	25.7230	25.7271	25.7270	
	-012 C	686		17	27.4172	27.4208	27.4207	
	-013	600		LM	25.0267	25.0311	25.0314	
	-014	920		Z	25.0568	25.0627	25.0624	
	-015	642		LK	25.9118	25.9157	25.9157	
20	-016	1,270		MM	29.2984	29.3059	29.3060	
	-017 E	640		ΔX	24.1494	24.1546	24.1543	
	-019 F	397		∴	24.8932	24.8979	24.8980	
	-020 I	1,097		FM	25.5086	25.5068	25.5065	
	-021	1,150	↓	MSS	26.6156	26.6224	26.6221	
							RS 3/28/06	

* Constant weight must be within 0.0005 from previous reading.

RSCiffa 3/27/06
Analyst / Date

3-29-06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111734
Date Started: 27-MAR-2006
Batched by : Radia Shiffa

Analysis : TDS
Bgroup : N/A
Department : Wet Chemistry

Sample	Type	Client	Matrix	Analyses	Due Date
185679-001		Treadwell & Rollo	Water	TDS	31-MAR-2006
185679-002		Treadwell & Rollo	Water	TDS	31-MAR-2006
185679-003		Treadwell & Rollo	Water	TDS	31-MAR-2006
185679-004		Treadwell & Rollo	Water	TDS	31-MAR-2006
185679-005		Treadwell & Rollo	Water	TDS	31-MAR-2006
185679-006		Treadwell & Rollo	Water	TDS	31-MAR-2006
185679-007		Treadwell & Rollo	Water	TDS	31-MAR-2006
185679-008		Treadwell & Rollo	Water	TDS	31-MAR-2006
185679-009		Treadwell & Rollo	Water	TDS	31-MAR-2006
185679-010		Treadwell & Rollo	Water	TDS	31-MAR-2006
185679-011		Treadwell & Rollo	Water	TDS	31-MAR-2006
185679-012		Treadwell & Rollo	Water	TDS	31-MAR-2006
185679-013		Treadwell & Rollo	Water	TDS	31-MAR-2006
185679-014		Treadwell & Rollo	Water	TDS	31-MAR-2006
185679-015		Treadwell & Rollo	Water	TDS	31-MAR-2006
185679-016		Treadwell & Rollo	Water	TDS	31-MAR-2006
185679-017		Treadwell & Rollo	Water	TDS	31-MAR-2006
185679-019		Treadwell & Rollo	Water	TDS	31-MAR-2006
185679-021		Treadwell & Rollo	Water	TDS	31-MAR-2006
QC333242	BLANK		Water	TDS	
QC333243	BS		Water	TDS	
QC333244	BSD		Water	TDS	
QC333245	SDUP of 185679-011		Water	TDS	

Analysis: **Total Dissolved Solids**
Method: **EPA160.1** / SMWW 2540c
Matrix: Water
SOP#: tds_rv 9.doc

Analysis Date: **24-Apr-06**
Batch #: **112689**
Analyst: RS

BATCH QC DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)	Spike Std Conc (mg/L)	Spike Vol.Used (mL)	Spiking Level (mg/L)	**Recovery,%**	**RPD,%**
MB	50	1	49.3807	49.3811	0.0004	ND	10					
BS	50	1	50.3989	50.4036	0.0047	94.0	10	1,000	5	100	**94**	
BSD	50	1	53.0676	53.0718	0.0042	84.0	10	1,000	5	100	**84**	**11.24**
186214-001	10	5	27.8809	27.8904	0.0095	950.0	50					
SDUP	10	5	25.9609	25.9703	0.0094	940.0	50					**1.06**

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	79 - 121
MS/ MSD	20	69 - 131

SAMPLE DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)
186214-002	10	5	24.7239	24.7331	0.0092	920.0	50
186214-004	10	5	24.4250	24.4360	0.0110	1,100.0	50
186214-005	10	5	27.6506	27.6681	0.0175	1,750.0	50
186214-006	10	5	25.3780	25.3909	0.0129	1,290.0	50
186214-007	10	5	25.3618	25.3626	0.0008	80.0	50
186294-006	10	5	24.4127	24.4134	0.0007	70.0	50
186294-007	10	5	25.4861	25.4871	0.0010	100.0	50
186294-008	10	5	25.0626	25.0635	0.0009	90.0	50
186294-009	10	5	27.1903	27.1912	0.0009	90.0	50
186244-006	10	5	24.3558	24.3740	0.0182	1,820.0	50
186246-008	50	1	47.3434	47.3436	0.0002	ND	10
185679-020	10	5	28.5402	28.5490	0.0088	880.0	50

✓ TKW 4/27/06

Note: Because the regulatory holding time is based on the prep date, the analysis date referenced above is the prep date.

Reviewed by/ Date: TKW 4/27/06

TDS (Total Dissolved Solids)
EPA 160.1 / SMWW 2540C

Curtis & Tompkins, Ltd.

LIMS Batch #: 112689

Prep Date: 4-24-06
Prep Time: 15:30

Benchbook#: **BK2254**
Page: **4**

Filter Mfg/ Lot#: F1672870
Spike WS#: 52182

Spike WS Conc (mg/L): 1,000
Spike Vol Added (mL): 5

	In	Out	In-2	Out-2	In-3	Out-3
Date:	4-24-06	4-25-06	4-25-06	4-25-06		
Time:	21:40	15:00	17:00	18:00		
Temp (C):	90°C	180°C	180°C	180°C		

	Sample # / Letter	EC Value (µS/cm)	Sample Vol. Filtered (mL)	Dish ID	Dish Wt (g)	1st Dry Wt.(g)	2nd Dry Wt (g)*	3rd Dry Wt (g)*
1	MB		50	XXX	49.3807	49.3811	49.3813	
	BS			XL	50.3989	50.4036	50.4034	
	BSD			TT	53.0676	53.0718	53.0721	
	186214-001 M	988	10	LMK	27.8809	27.8904	27.8900	
5	SDUP -001			⊕	25.9609	25.9703	25.9702	
	-002	768		SJJ	24.7239	24.7331	24.7332	
	-004 G	943		DMT	24.4250	24.4360	24.4362	
	-005	1,606		AMT	27.6506	27.6681	27.6684	
	-006 H	1,422		SO	25.3780	25.3909	25.3909	
10	-007	12.48		NBZ	25.3618	25.3626	25.3625	
	186294-006 A	30.50		M	24.4127	24.4134	24.4138	
	-007	33.90		IB	25.4861	25.4871	25.4870	
	-008	50.90		MS	25.0626	25.0635	25.0635	
	-009	49.10		ZHB	27.1903	27.1912	27.1915	
15	186244-006C	303		UF	24.3558	24.3740	24.3741	
	186246-008	5.62	50	ZY	47.3434	47.3436	47.3437	
	185679-020I	844	10	ZCB	28.5402	28.5490	28.5492	
20								
				R2412				

* Constant weight must be within 0.0005 from previous reading.

R Sciffa 4/24/06
Analyst / Date

Jean K Morrow 4/27/06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 112689
Date Started: 24-APR-2006
Batched by : Radia Shiffa

Analysis : TDS
Bgroup : N/A
Department : Wet Chemistry

Sample	Type	Client	Matrix	Analyses	Due Date
185679-020		Treadwell & Rollo	Water	TDS	31-MAR-2006
186214-001		Ninyo & Moore	Water	TDS	27-APR-2006
186214-002		Ninyo & Moore	Water	TDS	27-APR-2006
186214-004		Ninyo & Moore	Water	TDS	27-APR-2006
186214-005		Ninyo & Moore	Water	TDS	27-APR-2006
186214-006		Ninyo & Moore	Water	TDS	27-APR-2006
186214-007		Ninyo & Moore	Water	TDS	27-APR-2006
186244-006		Innovative Technic	Water	TDS	28-APR-2006
186246-008		LFR Levine Fricke	Water	TDS	24-APR-2006
186294-006		U.S. Army Corps of	Water	TDS	02-MAY-2006
186294-007		U.S. Army Corps of	Water	TDS	02-MAY-2006
186294-008		U.S. Army Corps of	Water	TDS	02-MAY-2006
186294-009		U.S. Army Corps of	Water	TDS	02-MAY-2006
QC337011	BLANK		Water	TDS	
QC337012	BS		Water	TDS	
QC337013	BSD		Water	TDS	
QC337014	SDUP of 186214-001		Water	TDS	

Curtis & Tompkins, Ltd.

Total Organic Carbon (TOC)

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 415.2
Analyte:	Total Organic Carbon	Batch#:	112440
Matrix:	Water	Received:	03/21/06
Units:	mg/L	Analyzed:	04/17/06

Field ID	Type	Lab ID	Result	RL	Diln Fac	Sampled
LF6GW105	SAMPLE	185679-006	1.9	1.0	2.000	03/20/06
LF6GW106	SAMPLE	185679-007	3.0	2.0	4.000	03/20/06
600GW107	SAMPLE	185679-009	3.4	0.50	1.000	03/20/06
610SP01	SAMPLE	185679-020	5.1	0.50	1.000	03/21/06
610SP02	SAMPLE	185679-021	5.0	0.50	1.000	03/21/06
	BLANK	QC335979	ND	0.50	1.000	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Organic Carbon (TOC)

Lab #:	185679	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 415.2
Analyte:	Total Organic Carbon	Diln Fac:	1.000
Matrix:	Water	Batch#:	112440
Units:	mg/L	Analyzed:	04/17/06

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC335980	15.00	14.83	99	80-120		
BSD	QC335981	15.00	14.91	99	80-120	1	20

RPD= Relative Percent Difference

Analysis:	**Total Inorganic & Organic Carbon**	Date Analyzed:	**17-Apr-06**
Method:	**EPA 415.2 / SMWW 5310c**	Batch #:	**112440**
Matrix:	Water	Analyst:	SY
Instrument:	Tekmar-Dorman		
SOP#:	toc_415_rv 7.doc		

Calibration Range: **0.5- 20ppm** Calibration Date: 16-Feb-05

Standard Conc (mg/L)	Injection Size (mL)	Expected ug C	ABS	RF
0	4.0	0	285214	
0.5	4.0	2.0	1020522	510261
1.0	4.0	4.0	1372216	343054
5.0	4.0	20.0	5433587	271679
10.0	4.0	40.0	10544965	263624
20.0	4.0	80.0	22033950	275424

Correlation Coefficient (r):	0.9995	Slope:	269261
R-Square:	0.9989	Intercept:	229731

Calibration Verification Data

	TOC (mg/L) True Value	Instrument "ppm C"	TOC (mg/L) Report	Recovery	Recovery Limits
ICV	15.0	14.83	14.8314	99%	90% - 110%
ICB	0	0.12	ND		
CCV	15.0	14.79	14.7873	99%	90% - 110%
CCB	0	0.19	ND		

Analysis:	**Total Inorganic & Organic Carbon**	Date Analyzed:	**17-Apr-06**
Method:	**EPA 415.2 / SMWW 5310c**	Batch #:	**112440**
Matrix:	Water	Analyst:	SY
Instrument:	Tekmar-Dorman		

Batch QC Data

Sample	PDF	Instrument "ppm C"	**TOC (mg/L) Report**	Reporting Limit (mg/L)	TOC Spike Level (mg/L)	Recovery,%	%RPD
BLANK	1	0.1239	**ND**	0.5			
BS	1	14.8314	**14.8314**	0.5	15	98.9	
BSD	1	14.9060	**14.9060**	0.5	15	99.4	0.50

QC Limits	Recovery	RPD
LCS/ BS/ BSD	80 - 120	20
SSPIKE/ SDUP	80 - 135	20

Sample Data

Sample	IDF	Instrument "ppm C"	**TOC (mg/L) Report**	Reporting Limit (mg/L)
185679-6	2	0.95	**1.90**	1.0
185679-7	4	0.74	**2.97**	2.0
185679-9	1	3.38	**3.38**	0.5
185679-20	1	5.05	**5.05**	0.5
185679-21	1	5.04	**5.04**	0.5

4-17-6

Detailed Analysis Report Print Date/Time: 2006/04/17 12:08:21

Sample ID: blk
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 04170916
Timestamp: 04/17/2006 09:29
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1800	0.7202	322712	34.276	35.267	66
2	0.0641	0.2565	197858	34.436	35.432	51

<<<Statistics>>> Mean: 0.1221 Std Dev: 0.0820 RSD: 67.15

Sample ID: icb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 04170916
Timestamp: 04/17/2006 09:43
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1239	0.4955	262227	34.336	35.332	54
2	0.0709	0.2838	205212	34.291	35.279	52

<<<Statistics>>> Mean: 0.0974 Std Dev: 0.0375 RSD: 38.48

Sample ID: 15 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 04170916
Timestamp: 04/17/2006 10:07
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.8314	59.3254	16203741	34.229	35.228	479
2	14.8060	59.2240	16176439	34.545	35.545	321

<<<Statistics>>> Mean: 14.8187 Std Dev: 0.0180 RSD: 0.12

Sample ID: bsd
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 04170916
Timestamp: 04/17/2006 10:28
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.9060	59.6242	16183247	34.573	35.573	312
2	14.9468	59.7870	16227097	34.754	35.751	205

<<<Statistics>>> Mean: 14.9264 Std Dev: 0.0289 RSD: 0.19

Sample ID: 185679-6Ax2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 04170916
Timestamp: 04/17/2006 10:42
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.9486	3.7945	1150504	34.627	35.625	81
2	0.8199	3.2797	1011879	34.441	35.438	84

<<<Statistics>>> Mean: 0.8842 Std Dev: 0.0910 RSD: 10.29

Sample ID: 185679-7Ax4
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 04170916
Timestamp: 04/17/2006 10:56
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.7418	2.9674	927789	34.444	35.439	68
2	0.7246	2.8982	909172	34.482	35.482	72

<<<Statistics>>> Mean: 0.7332 Std Dev: 0.0122 RSD: 1.66

Sample ID: 185679-9G
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 04170916
Timestamp: 04/17/2006 11:12
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.3788	13.5154	3767961	34.595	35.594	135
2	3.4904	13.9616	3888115	34.521	35.520	173

<<<Statistics>>> Mean: 3.4346 Std Dev: 0.0789 RSD: 2.30

Sample ID: 185679-20D
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 04170916
Timestamp: 04/17/2006 11:30
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
	5.0539	20.2155	5572037	34.607	35.605	179
2	5.0966	20.3864	5618065	34.522	35.521	225

<<<Statistics>>> Mean: 5.0752 Std Dev: 0.0302 RSD: 0.59

Sample ID: 185679-21D
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 04170916
Timestamp: 04/17/2006 11:48
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.0417	20.1667	5558911	34.639	35.638	190
2	5.0116	20.0463	5526485	34.711	35.708	180

<<<Statistics>>> Mean: 5.0266 Std Dev: 0.0213 RSD: 0.42

Sample ID: 185729-1Jx2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY

Mode: TOC
Filename: 04170916
Timestamp: 04/17/2006 12:06
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	254.6818	1018.7270	274432064	34.607	36.298	747

Last Message: Over-range

Reinjected → overrange hence didn't want to run the sample undil

SY 4.17.06

(CS2952 Exp Jun 28-06)
Toc Std: 1000ppm
iw/BS, BSD
↓
3ml → 200ml
@ 15ppm

SY 4.17.06

Detailed Analysis Report Print Date/Time: 2006/04/17 13:08:07

Sample ID: 15 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 04171227
Timestamp: 04/17/2006 12:48
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	15.9373	63.7493	17394916	34.705	35.705	315
2	14.7873	59.1491	16156261	34.842	35.842	263

<<<Statistics>>> Mean: 15.3623 Std Dev: 0.8132 RSD: 5.29

Sample ID: ccb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 04171227
Timestamp: 04/17/2006 13:02
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1864	0.7456	329555	34.722	35.710	54
2	0.0924	0.3695	228275	34.629	35.628	54

<<<Statistics>>> Mean: 0.1394 Std Dev: 0.0665 RSD: 47.68

Sample ID: 15 ppm
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 04171227
Timestamp: 04/17/2006 12:48
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	15.9373	63.7493	17394916	34.705	35.705	315
2	14.7873	59.1491	16156261	34.842	35.842	263

<<<Statistics>>> Mean: 15.3623 Std Dev: 0.8132 RSD: 5.29

Sample ID: ccb
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: 1-20cal102405
Operator ID: SY
Mode: TOC
Filename: 04171227
Timestamp: 04/17/2006 13:02
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1864	0.7456	329555	34.722	35.710	54
2	0.0924	0.3695	228275	34.629	35.628	54

<<<Statistics>>> Mean: 0.1394 Std Dev: 0.0665 RSD: 47.68

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 112440
Date Started: 17-APR-2006
Batched by : Sunitha Yerragodula

Analysis : TOC
Bgroup : N/A
Department : Wet Chemistry

Sample	Type	Client	Matrix	Analyses	Due Date
185679-006		Treadwell & Rollo	Water	TOC	31-MAR-2006
185679-007		Treadwell & Rollo	Water	TOC	31-MAR-2006
185679-009		Treadwell & Rollo	Water	TOC	31-MAR-2006
185679-020		Treadwell & Rollo	Water	TOC	31-MAR-2006
185679-021		Treadwell & Rollo	Water	TOC	31-MAR-2006
QC335979	BLANK		Water	TOC	
QC335980	BS		Water	TOC	
QC335981	BSD		Water	TOC	

Total Organic Carbon
by Walkley-Black Method
Method Detection Limit Study

Analysis:	**Total Organic Carbon**	Analysis Date:	**6-May-05**
Method:	EPA 415.2 / SM 5310C	Batch:	101838
Matrix:	Water	Analyst:	DW

Conc. (mg/L)	0.500
1	0.6200
2	0.5500
3	0.5500
4	0.5800
5	0.6200
6	0.6300
7	0.5500
STDEVP	0.034166
Student's t-value	3.143
ML (mg/L)	**0.1074**
RL (mg/L)	0.50
Status	PASS

Note: Student-T value for 7 replicates = 3.143, for 8 replicates = 2.998

Filename: F:\inorgan\forms\tocwb_mdl.xls

NDMA

PACIFIC ANALYTICAL, INC.

6056 Corte Del Cedro • Carlsbad, CA 92011
(760) 496-2200 • FAX (760) 496-2211

NARRATIVE REPORT
Method 1625M Semivolatiles

Curtis & Tompkins
2323 Fifth Street
Berkeley, CA 94710

03/29/06

Attn: Steve Stanley

PA Reference: 2544

Samples: NKGW02, NKGW05, NKGW01, NKGW04, DUP0320061A

Semivolatiles analysis:

The samples were extracted and analyzed by Method 1625C, modified for the lowest possible detection limits. A 1000 mL aliquot was spiked with 0.01 ug of N-Nitrosodimethylamine-d6 and extracted with continuous liquid-liquid extractors for 24 hours. The sample extract was concentrated to a final volume of 0.10 mL and spiked with 0.01 ug of 2,2'-Difluorobiphenyl as an internal recovery standard. The extracts were analyzed by GC/MS with the mass spectrometer operating in the "Specific Ion Mode" for greater sensitivity and lower detection limits. The instrument was calibrated with five initial calibration standards ranging from 0.02 ug/mL to 1.00 ug/mL. A recent method detection limit study suggests the instrument is capable of detecting N-Nitrosodimethylamine (NNDMA) at a concentration of 0.0005 ug/L in a 1 liter sample. However our practical quantitation limit is 0.002 ug/L for a 1 liter sample. Any samples where NNDMA was detected at a concentration above 0.0005 ug/L but below 0.002 ug/L have an estimated concentration listed marked with a "J".

On-going Precision and Recovery

A laboratory blank (P&R) was spiked with 0.002 ug of NNDMA and 0.01 ug of its labeled analog, and extracted and analyzed like a sample for each extraction batch. Recoveries for NNDMA and its Label are within the method specified recovery limits for the P&R's associated with the samples.

Laboratory Blank

A laboratory blank was extracted and analyzed like the sample with each extraction batch. All of the laboratory blanks associated with the samples have no NNDMA detected at a concnetration which exceeds the detection limit.

1

Samples

Samples NKGW05, NKGW01, NKGW04 and DUP0320061A have NNDMA detected. Sample NKGW04 has a labeled NNDMA recovery out of the limits. No corrective action was taken because method hold times had expired.

Sample NKGW02 has no NNDMA detected at a concentration which exceeds the method detection limit.

This data package includes a summary page followed by a chromatogram and a close-up of the extracted ion current profile of NNDMA and its labeled analog. This is followed by a raw data printout with areas and scan numbers, an finally a "Quantitation Results" page which lists extract concentrations in ug/mL.

Please contact Chris Burbach or Steve Parsons at (760) 496-2200 if there are any questions concerning this data package.

Chris Burbach
GC/MS Supervisor

2

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900
(510) 486-0532

Project Number: 185679.
Site: Presidio

Subcontract Laboratory:
Pacific Analytical, Inc.
6056 Corte del Cedro
Carlsbad, CA 92009
(760) 496-2200
ATTN: Steve Parson

Results due: Report Level: III

Please send report to: Steve Stanley
*** Please report using Sample ID rather than C&T Lab #.

Sample ID	Sampled	Matrix	Analysis	C&T Lab #	Comments
NKGW02	03/20 09:00	Water	NDMA	185679-001	
NKGW05	03/20 09:38	Water	NDMA	185679-002	
[illegible]W01	03/20 10:28	Water	NDMA	185679-003	
[illegible]W04	03/20 11:22	Water	NDMA	185679-004	
DUP0320061A	03/20 11:32	Water	NDMA	185679-005	

Notes:	Relinquished By:	Received By:
	[signature]	[signature]
	Date/Time: 3/22/06 1654	Date/Time: 3/23/06 10:00

Signature on this form constitutes a firm Purchase Order for the services requested above.

EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

NKGW02

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000.000 ml
Concentrated Extract Volume: 100 ul
Injection Volume: 1 ul

Lab Sample ID: 2544-001
Lab File ID: 12C2831
Date Sampled: 03/20/06
Date Extracted: 03/27/06
Date Analyzed: 03/29/06
Time Analyzed: 0238

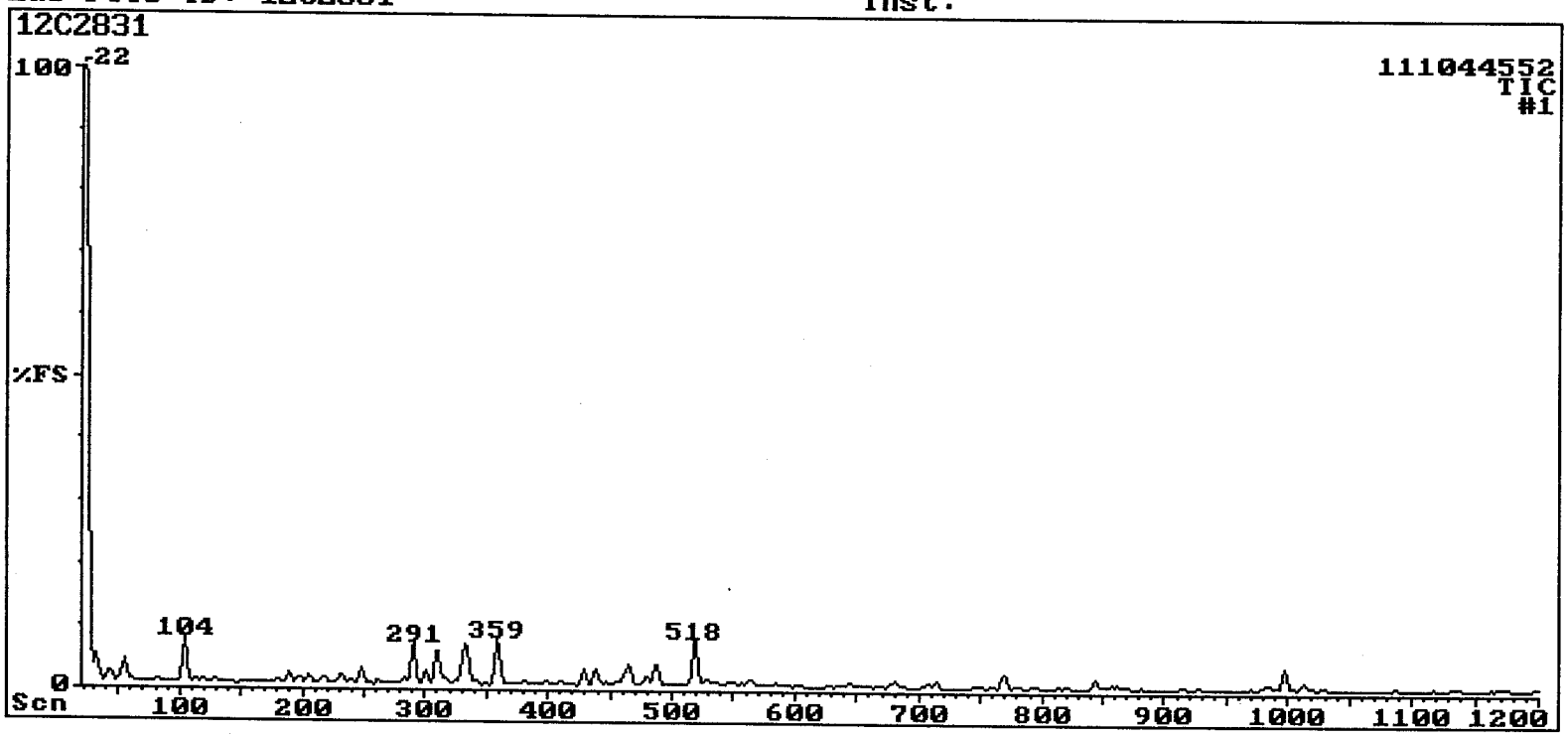
Compound	Sample Conc ug/L		PQL ug/L	Labeled Cpd. Recovery
N-Nitrosodimethylamine		U	0.0020	26 %

U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve
na = Compound has no corresponding labeled reference
PQL = Practical Quantitation Limit

NNDMA MDL = 0.0005 ug/L

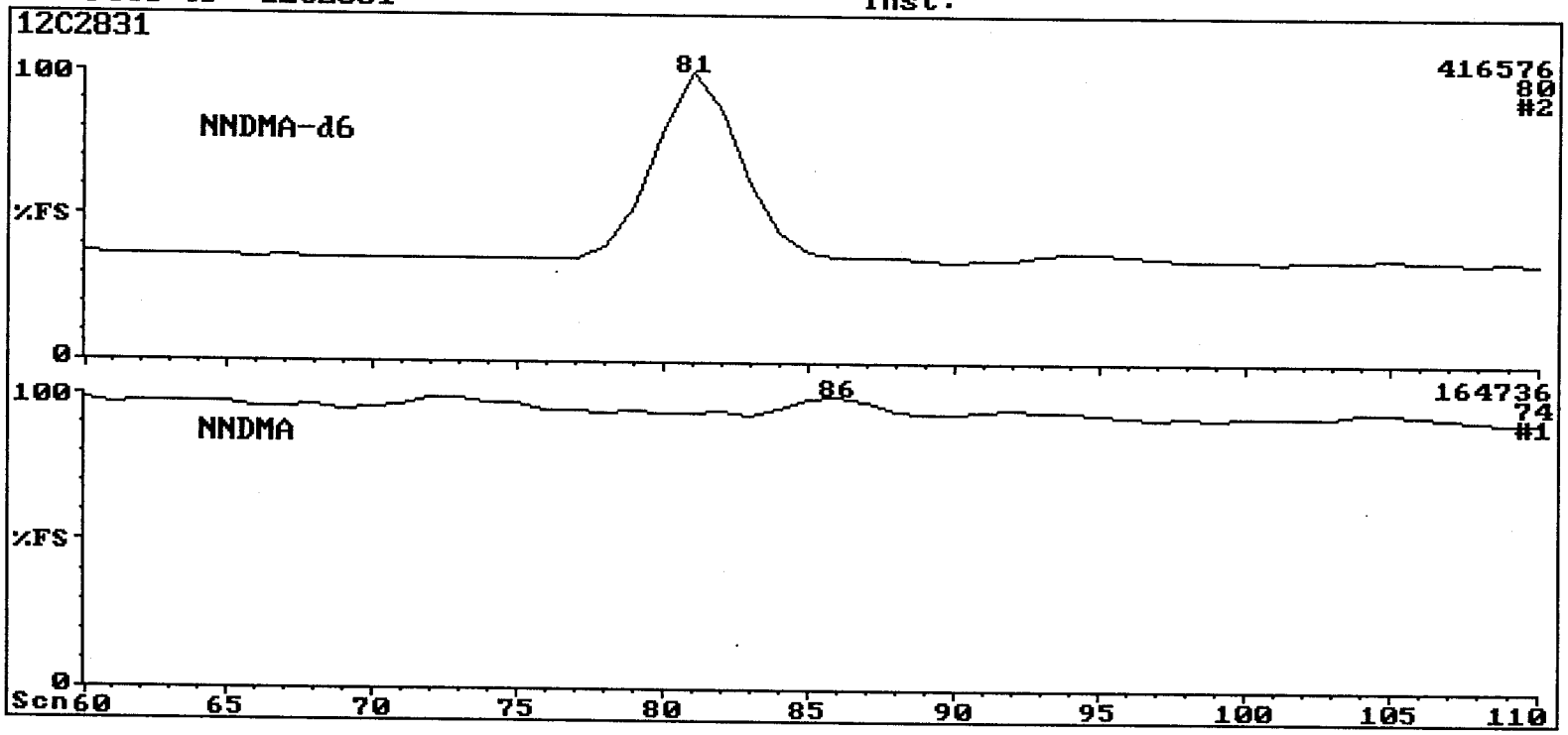
4

Sample: NKGW02 2544-001 Analyzed: 03/29/06 0238
Lab File ID: 12C2831 Inst:



5

Sample: NKGW02 2544-001 Analyzed: 03/29/06 0238
Lab File ID: 12C2831 Inst:



Sample No.: NKGW02 2544-001 Analyzed: 03/29/06 0238
File ID: 12C2831 Instrument ID: VG12

Interim Report LAB-BASE FIND 03/29/86 0526

0553/29/06

Raw Datafile : 12C2831 Quan DB : 12C2831
Find DB : NNDMA Scan DB :

No.	Spectrum MAT	FOR	REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	78	100	-1	13552224	bb	997	998	190	2,2'-Difluorobiphenyl
2	100	64	98	0	942095	vv	81	81	80	N-Nitrosodimethylamine-d6
3	65	35	69	0	35820	!!	86	86	74	N-Nitrosodimethylamine
	55	35	69	5	13536	!!	91			
	43	34	71	-9	1051	!!	77			

7

Quantitation Results

Sample: NKGW02 Lab ID: 2544-001 File: 12C2831
Instr: VG12 Acqu Date: 03/29/06 Acqu Time: 0238
Initial Size: 1000.0000 Final Size: 0.1000 ml

Compound	Target Conc ug/ml	Sample Conc ug/L	% Label Rec	Limits
N-Nitrosodimethylamine	~~0.00366~~	~~0.00037~~ BDL 03/29/06	26	25 - 175

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EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

NKGW05

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000.000 ml
Concentrated Extract Volume: 100 ul
Injection Volume: 1 ul

Lab Sample ID: 2544-002
Lab File ID: 12C2832
Date Sampled: 03/20/06
Date Extracted: 03/27/06
Date Analyzed: 03/29/06
Time Analyzed: 0319

Compound	Sample Conc ug/L	PQL ug/L	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.0032	0.0020	33 %

U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve
na = Compound has no corresponding labeled reference
PQL = Practical Quantitation Limit

NNDMA MDL = 0.0005 ug/L

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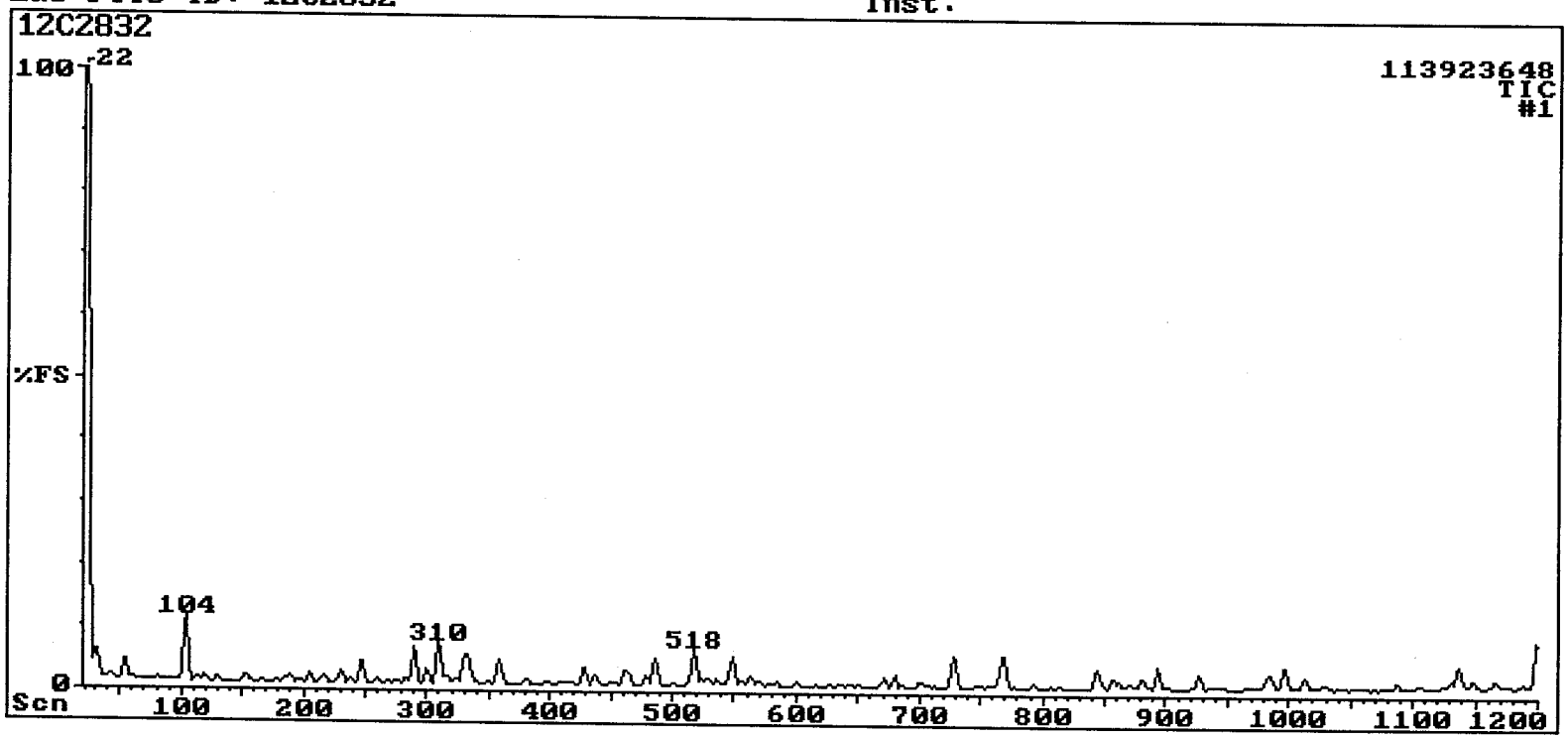
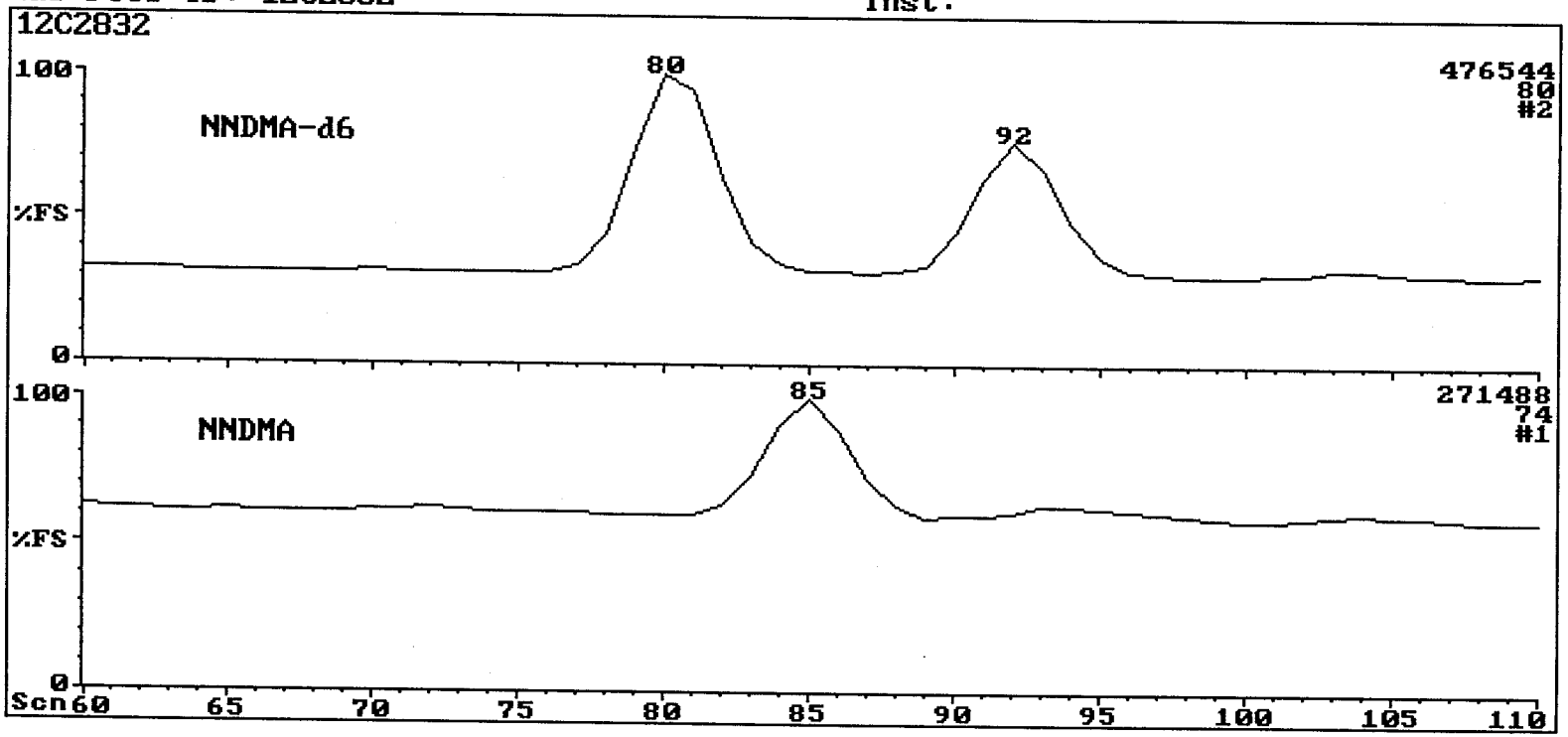
Sample: NKGW05 2544-002 Analyzed: 03/29/06 0319
Lab File ID: 12C2832 Inst:



Sample: NKGW05 2544-002 Analyzed: 03/29/06 0319
Lab File ID: 12C2832 Inst:



Sample No.: NKGW05 2544-002 Analyzed: 03/29/06 0319
File ID: 12C2832 Instrument ID: VG12

==========

Interim Report LAB-BASE FIND 03/29/~~05~~ 06 0527

==========

0353/29/04

Raw Datafile : 12C2832 Quan DB : 12C2832
Find DB : NNDMA Scan DB :

No.	Spectrum MAT	FOR	REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	67	100	0	13001216	bb	997	997	190	2,2'-Difluorobiphenyl
2	93	57	98	-1	1133504	bb	80	81	80	N-Nitrosodimethylamine-d6
3	68	43	70	-1	365616	!!	85	86	74	N-Nitrosodimethylamine
	42	33	64	8	59281	!!	94			

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Quantitation Results

Sample: NKGW05 Lab ID: 2544-002 File: 12C2832
Instr: VG12 Acqu Date: 03/29/06 Acqu Time: 0319
Initial Size: 1000.0000 Final Size: 0.1000 ml

Compound	Target Conc ug/ml	Sample Conc ug/L	% Label Rec	Limits
N-Nitrosodimethylamine	0.03177	0.00318	33	25 - 175

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EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

NKGW01

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000.000 ml
Concentrated Extract Volume: 100 ul
Injection Volume: 1 ul

Lab Sample ID: 2544-003
Lab File ID: 12C2833
Date Sampled: 03/20/06
Date Extracted: 03/27/06
Date Analyzed: 03/29/06
Time Analyzed: 0400

Compound	Sample Conc ug/L	PQL ug/L	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.0045	0.0020	26 %

U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve
na = Compound has no corresponding labeled reference
PQL = Practical Quantitation Limit

NNDMA MDL = 0.0005 ug/L

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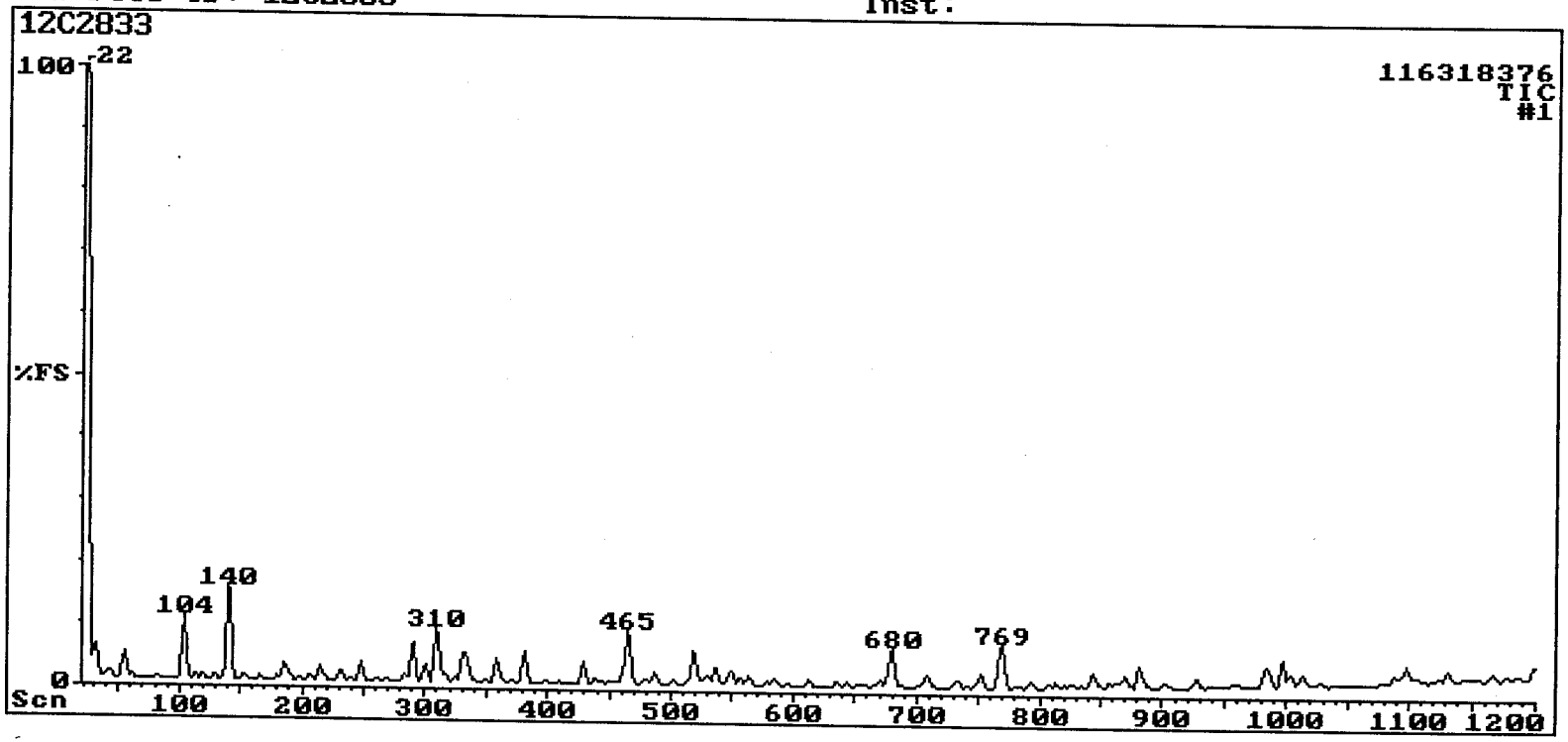
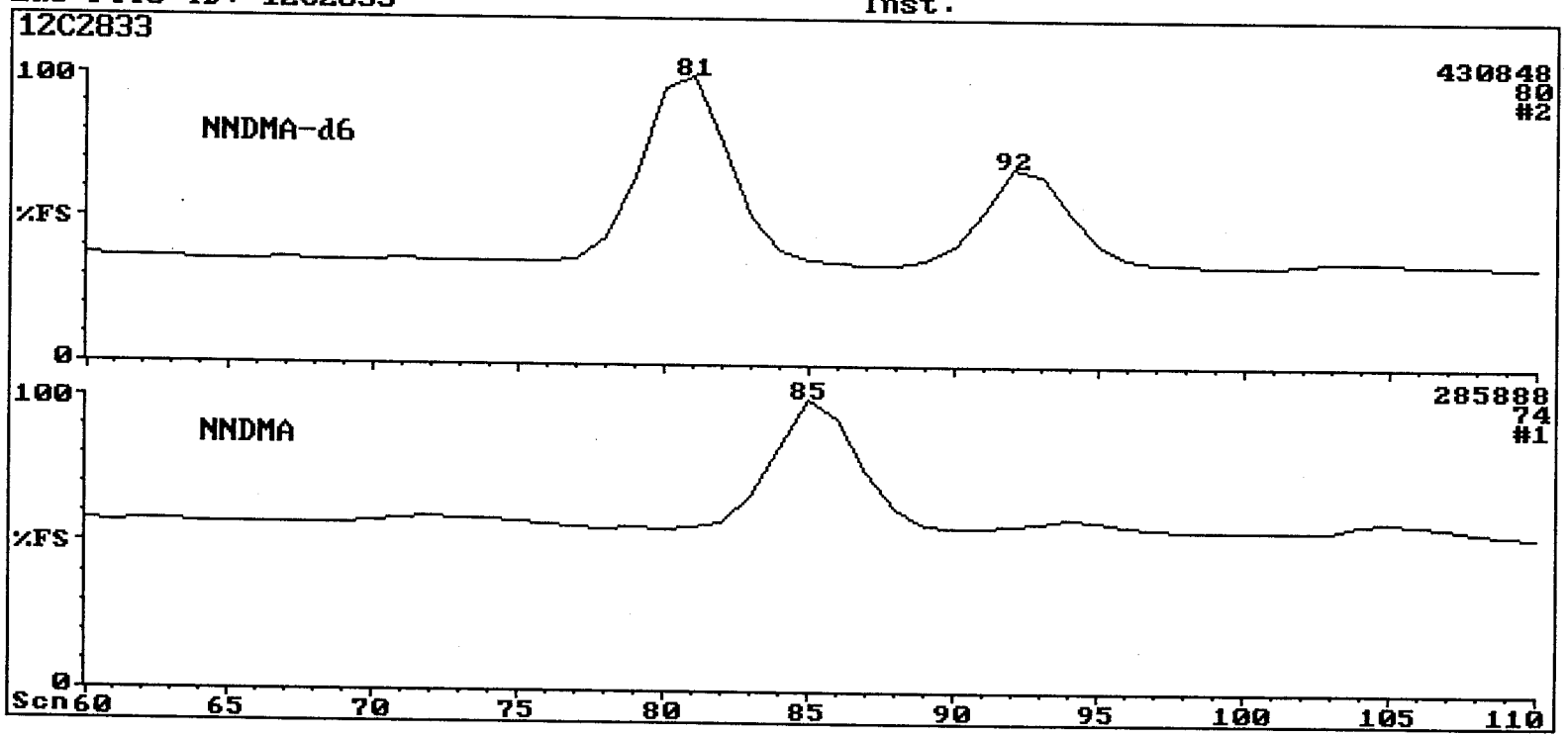
Sample: NKGW01 2544-003 Analyzed: 03/29/06 0400
Lab File ID: 12C2833 Inst:



Sample: NKGW01 2544-003 Analyzed: 03/29/06 0400
Lab File ID: 12C2833 Inst:



Sample No.: NKGW01 2544-003 Analyzed: 03/29/06 0400
File ID: 12C2833 Instrument ID: VG12

Interim Report LAB-BASE FIND 03/29/~~85~~ 06 0527

Raw Datafile : 12C2833 Quan DB : 12C2833
Find DB : NNDMA Scan DB :

No.	Spectrum MAT	Scan FOR	Scan REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	98	57	100	0	14662328	bb	997	997	190	2,2'-Difluorobiphenyl
2	100	63	98	0	989984	bb	81	81	80	N-Nitrosodimethylamine-d6
3	73	43	78	-1	447808	!!	85	86	74	N-Nitrosodimethylamine
	45	33	71	8	62186	!!	94			

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Quantitation Results

Sample: NKGW01 Lab ID: 2544-003 File: 12C2833
Instr: VG12 Acqu Date: 03/29/06 Acqu Time: 0400
Initial Size: 1000.0000 Final Size: 0.1000 ml

Compound	Target Conc ug/ml	Sample Conc ug/L	% Label Rec	Limits
N-Nitrosodimethylamine	0.04507	0.00451	26	25 - 175

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EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

NKGW04

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000.000 ml
Concentrated Extract Volume: 100 ul
Injection Volume: 1 ul

Lab Sample ID: 2544-004
Lab File ID: 12C2834
Date Sampled: 03/20/06
Date Extracted: 03/27/06
Date Analyzed: 03/29/06
Time Analyzed: 0441

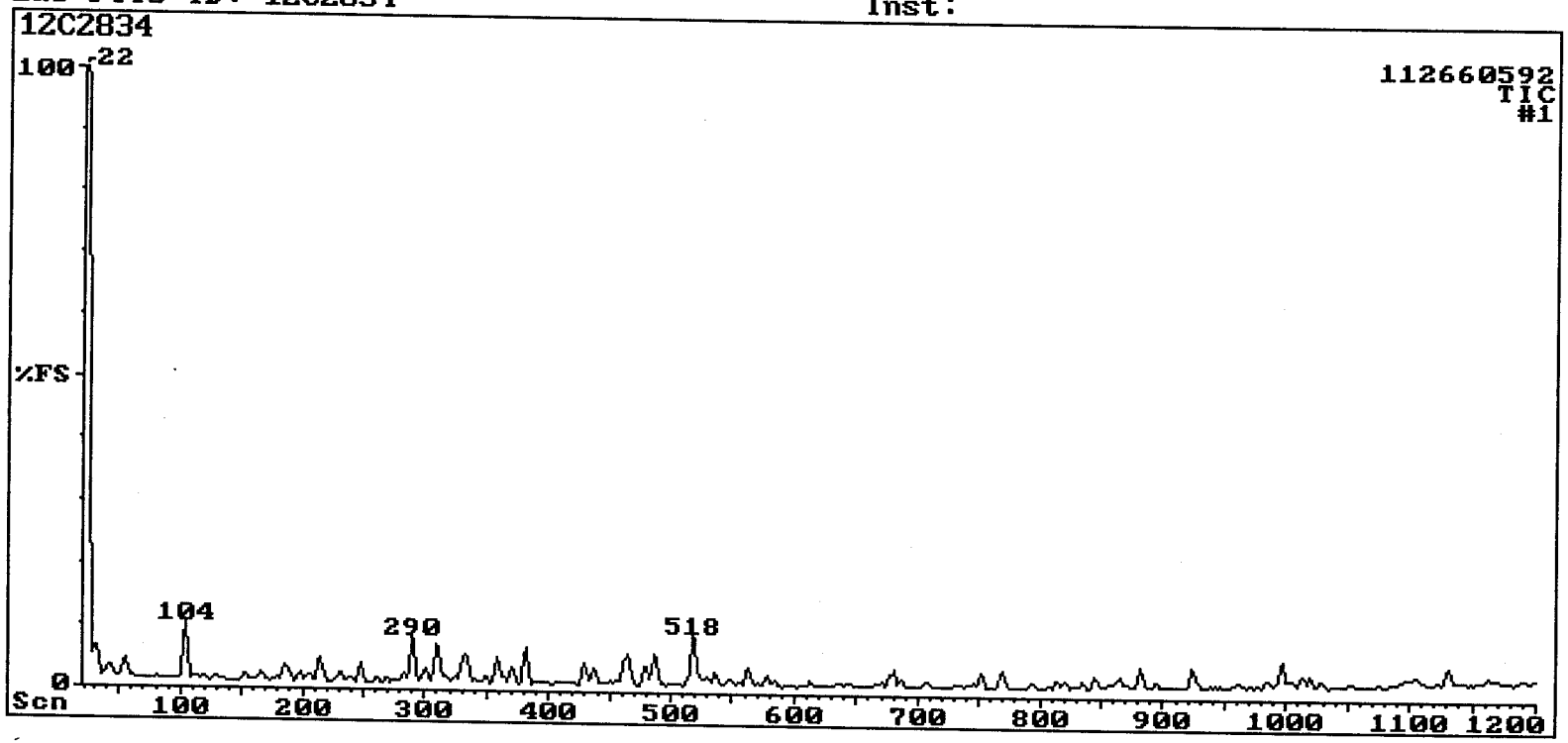
Compound	Sample Conc ug/L	PQL ug/L	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.0030	0.0020	23 %

U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve
na = Compound has no corresponding labeled reference
PQL = Practical Quantitation Limit

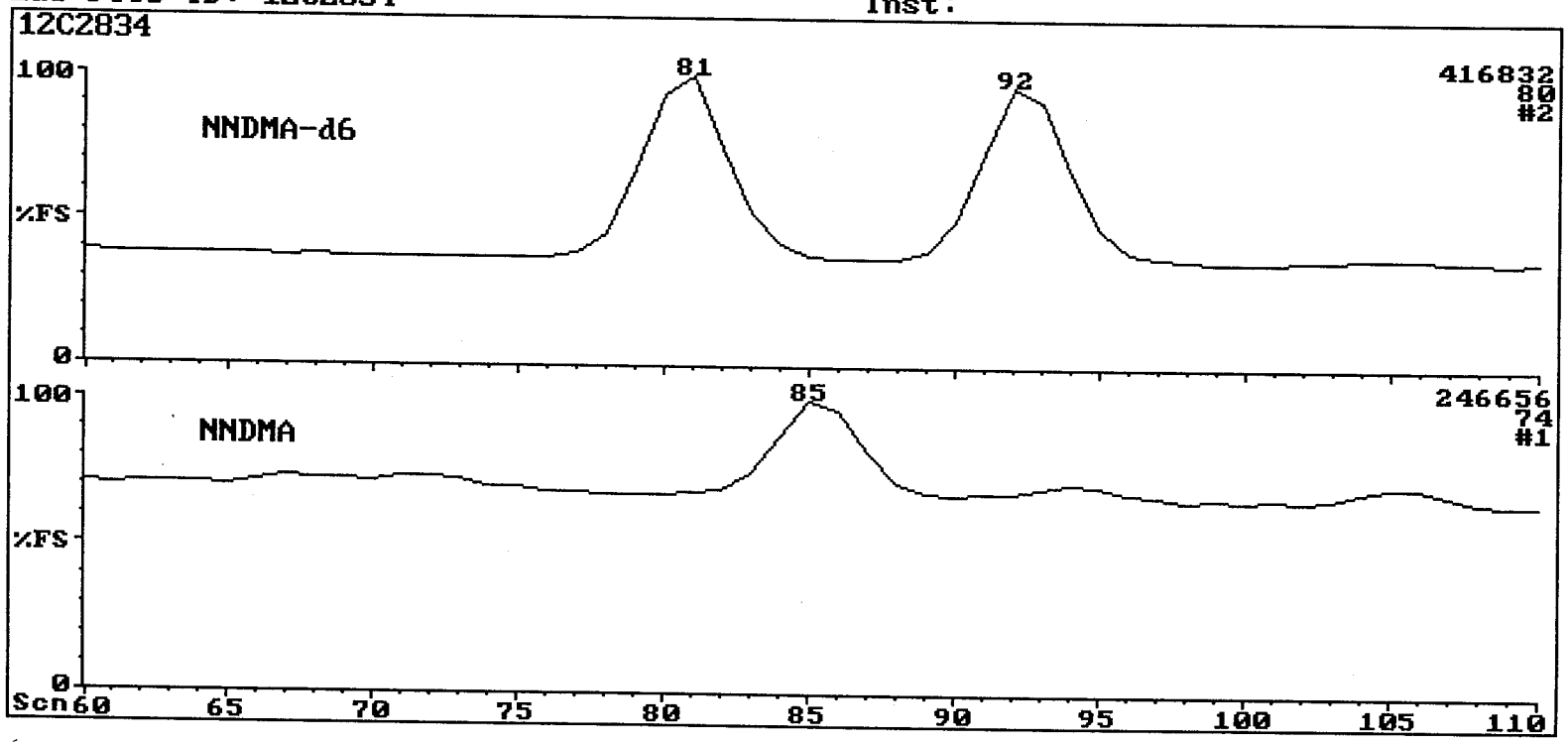
NNDMA MDL = 0.0005 ug/L

19

Sample: NKGW04 2544-004 Analyzed: 03/29/06 0441
Lab File ID: 12C2834 Inst:



Sample: NKGW04 2544-004 Analyzed: 03/29/06 0441
Lab File ID: 12C2834 Inst:



Sample No.: NKGW04 2544-004 Analyzed: 03/29/06 0441
File ID: 12C2834 Instrument ID: VG12

Interim Report LAB-BASE FIND 03/29/~~06~~ 06 0528
03/29/06

Raw Datafile : 12C2834 Quan DB : 12C2834
Find DB : NNDMA Scan DB :

No.	Spectrum MAT	FOR	REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	63	100	0	15512449	bv	997	997	190	2,2'-Difluorobiphenyl
2	96	54	99	0	925726	vb	81	81	80	N-Nitrosodimethylamine-d6
3	65	41	68	-1	286906	!!	85	86	74	N-Nitrosodimethylamine
	42	34	64	8	35277	!!	94			

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Quantitation Results

Sample: NKGW04 Lab ID: 2544-004 File: 12C2834
Instr: VG12 Acqu Date: 03/29/06 Acqu Time: 0441
Initial Size: 1000.0000 Final Size: 0.1000 ml

Compound	Target Conc ug/ml	Sample Conc ug/L	% Label Rec	Limits
N-Nitrosodimethylamine	0.03047	0.00305	23	25 - 175 *

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EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUP0320061A

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000.000 ml
Concentrated Extract Volume: 100 ul
Injection Volume: 1 ul

Lab Sample ID: 2544-005
Lab File ID: 12C2835
Date Sampled: 03/20/06
Date Extracted: 03/27/06
Date Analyzed: 03/29/06
Time Analyzed: 0523

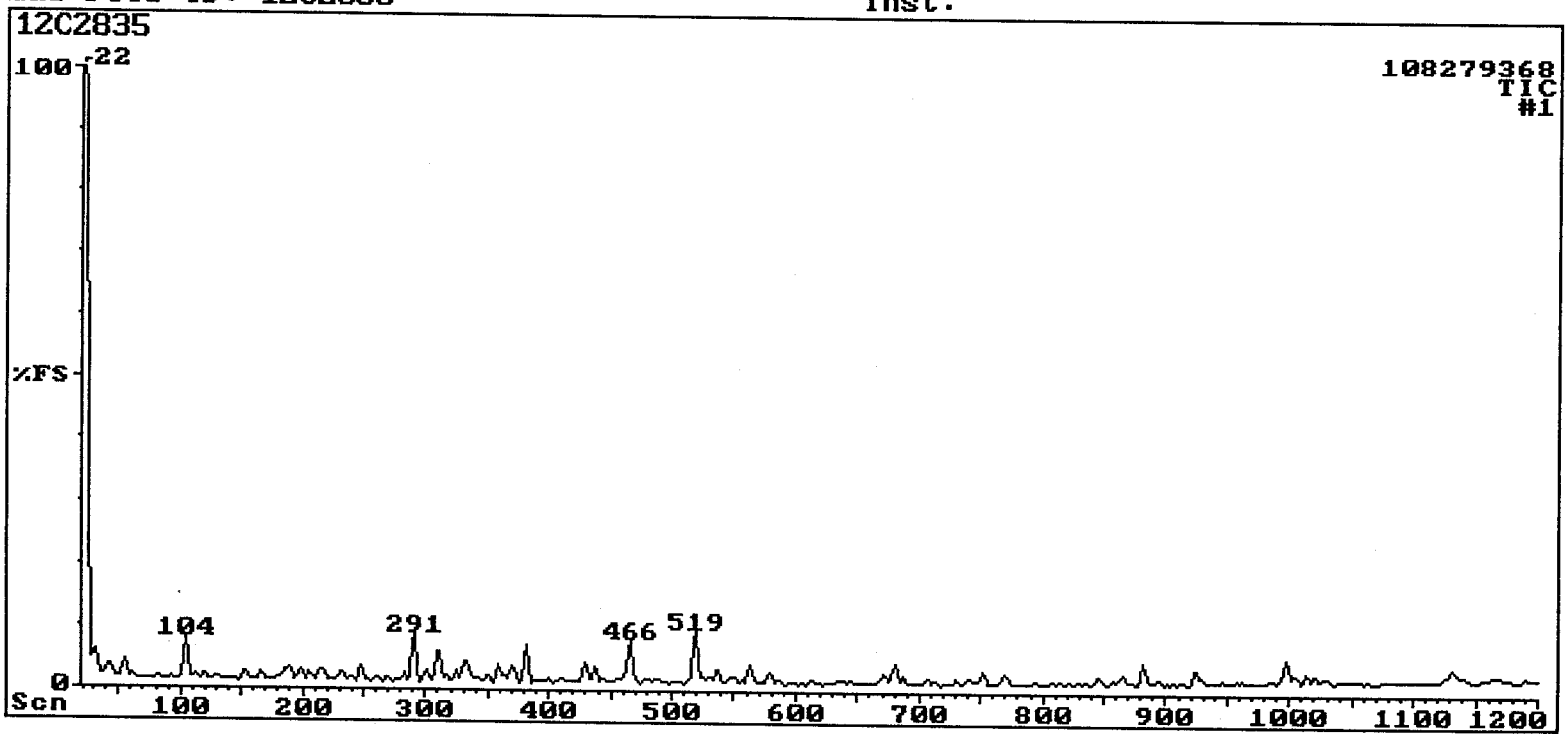
Compound	Sample Conc ug/L		PQL ug/L	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.0019	J	0.0020	25 %

U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve
na = Compound has no corresponding labeled reference
PQL = Practical Quantitation Limit

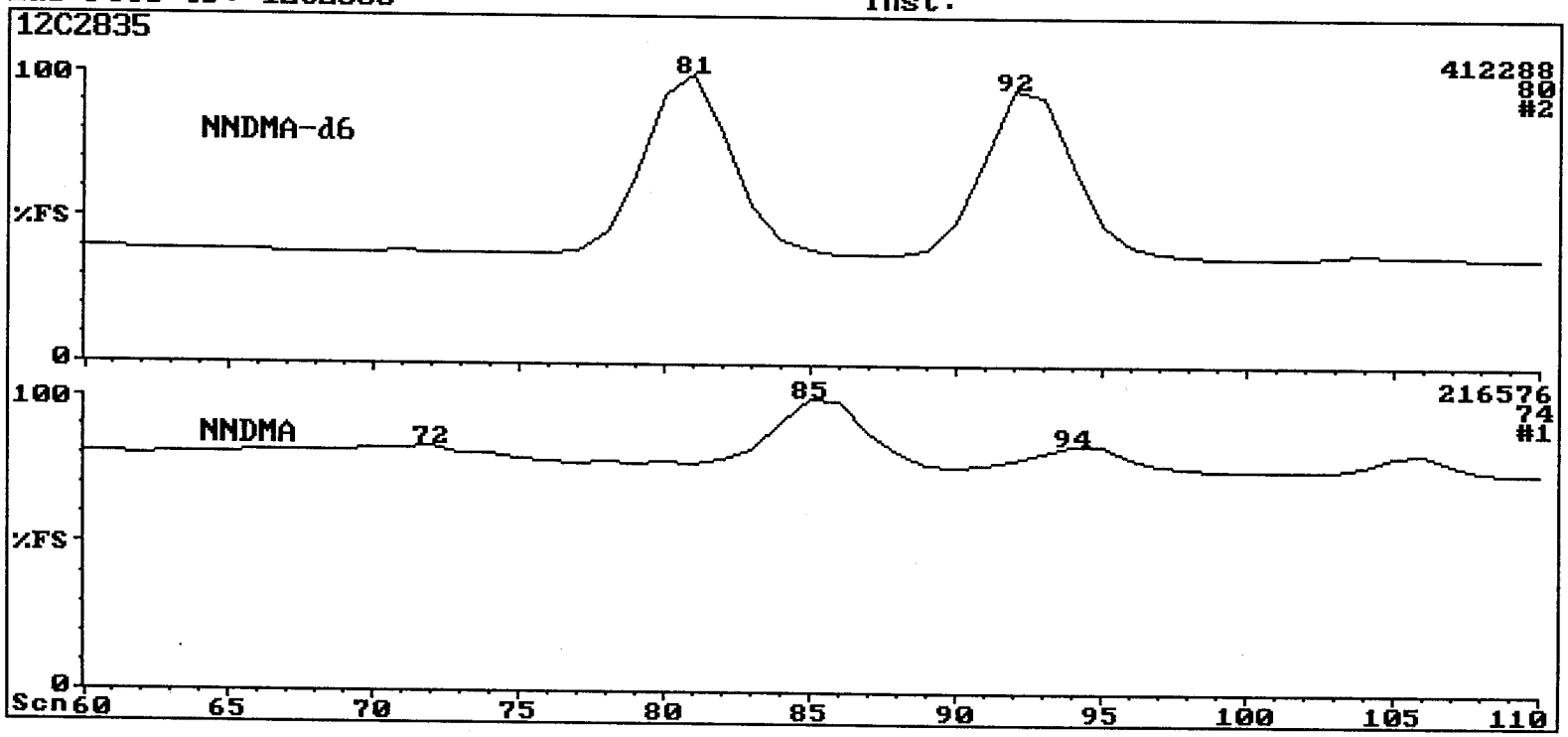
NNDMA MDL = 0.0005 ug/L

24

Sample: DUP0320061A 2544-005 Analyzed: 03/29/06 0523
Lab File ID: 12C2835 Inst:



Sample: DUP0320061A 2544-005 Analyzed: 03/29/06 0523
Lab File ID: 12C2835 Inst:



Sample No.: DUP0320061A 2544-005 Analyzed: 03/29/06 0523
File ID: 12C2835 Instrument ID: VG12

Interim Report LAB-BASE FIND 03/29/~~86~~ 06 0549

03/29/06

Raw Datafile : 12C2835 Quan DB : 12C2835
Find DB : NNDMA Scan DB :

No.	Spectrum MAT	FOR	REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	98	63	100	1	13662632	vb	998	997	190	2,2'-Difluorobiphenyl
2	94	52	98	0	901152	bb	81	81	80	N-Nitrosodimethylamine-d6
3	62	39	65	-1	181043	!!	85	86	74	N-Nitrosodimethylamine
	41	35	61	-8	364	!!	78			
	40	35	63	8	63859	!!	94			

27

Quantitation Results

Sample: DUP0320061A Lab ID: 2544-005 File: 12C2835
Instr: VG12 Acqu Date: 03/29/06 Acqu Time: 0523
Initial Size: 1000.0000 Final Size: 0.1000 ml

Compound	Target Conc ug/ml	Sample Conc ug/L	% Label Rec	Limits
N-Nitrosodimethylamine	0.01935	0.00193	25	25 - 175

28

METHOD 1625 ISOTOPE DILUTION
LABELED COMPOUNDS

Lab Name: PACIFIC ANALYTICAL Instr. ID: VG12 Cal. Date: 03/28/06

LAB FILE IDs: Conc1 = 12C2805
Conc2 = 12C2806
Conc3 = 12C2807
Conc4 = 12C2808
Conc5 = 12C2809

COMPOUND	RF Conc1	RF Conc2	RF Conc3	RF Conc4	RF Conc5	RF MEAN	% RSD
N-Nitrosodimethylamine-d6	0.273	0.265	0.262	0.258	0.256	0.263	2.6

29

METHOD 1625 ISOTOPE DILUTION
COMPOUNDS HAVING A LABELED REFERENCE

Lab Name: PACIFIC ANALYTICAL Instr. ID: VG12 Cal. Date: 03/28/06

LAB FILE IDs:
Conc1 = 12C2805
Conc2 = 12C2806
Conc3 = 12C2807
Conc4 = 12C2808
Conc5 = 12C2809

COMPOUND	RX	RR Conc1	RR Conc2	RR Conc3	RR Conc4	RR Conc5
N-Nitrosodimethylami	999999	0.208	0.500	0.971	4.774	9.131

30

CONCENTRATIONS OF CALIBRATION STANDARDS

	Compound	Ical Type	Resp Ref	Calibration Standards Conc1 ug/L	Conc2 ug/L	Conc3 ug/L	Conc4 ug/L	Conc5 ug/L
1	2,2'-Difluorobiphenyl	I	1	0.10	0.10	0.10	0.10	0.10
2	N-Nitrosodimethylamine	L	1	0.10	0.10	0.10	0.10	0.10
3	N-Nitrosodimethylamine	U	2	0.02	0.05	0.10	0.50	1.00

I = internal standard; L = labeled compound; U = unlabeled native
O = compound referenced to internal standard

31

Sample No.: 0.02 PPM STD NSTD0.02 Analyzed: 03/28/06 0846
File ID: 12C2805 Instrument ID: VG12

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Interim Report LAB-BASE FIND 03/28/~~85~~ 06 1212

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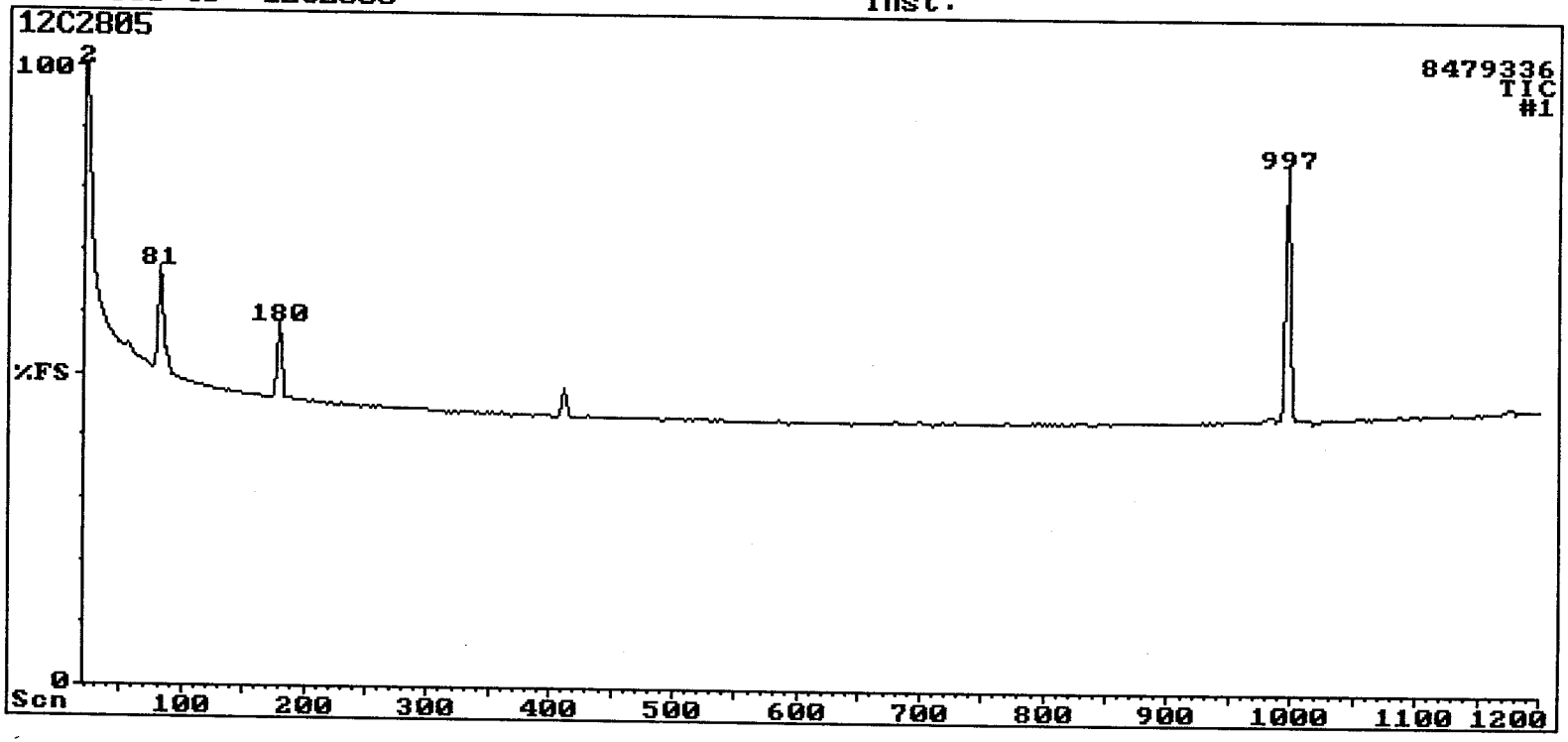
05 3/28/06

Raw Datafile : 12C2805 Quan DB : 12C2805
Find DB : NNDMA Scan DB :

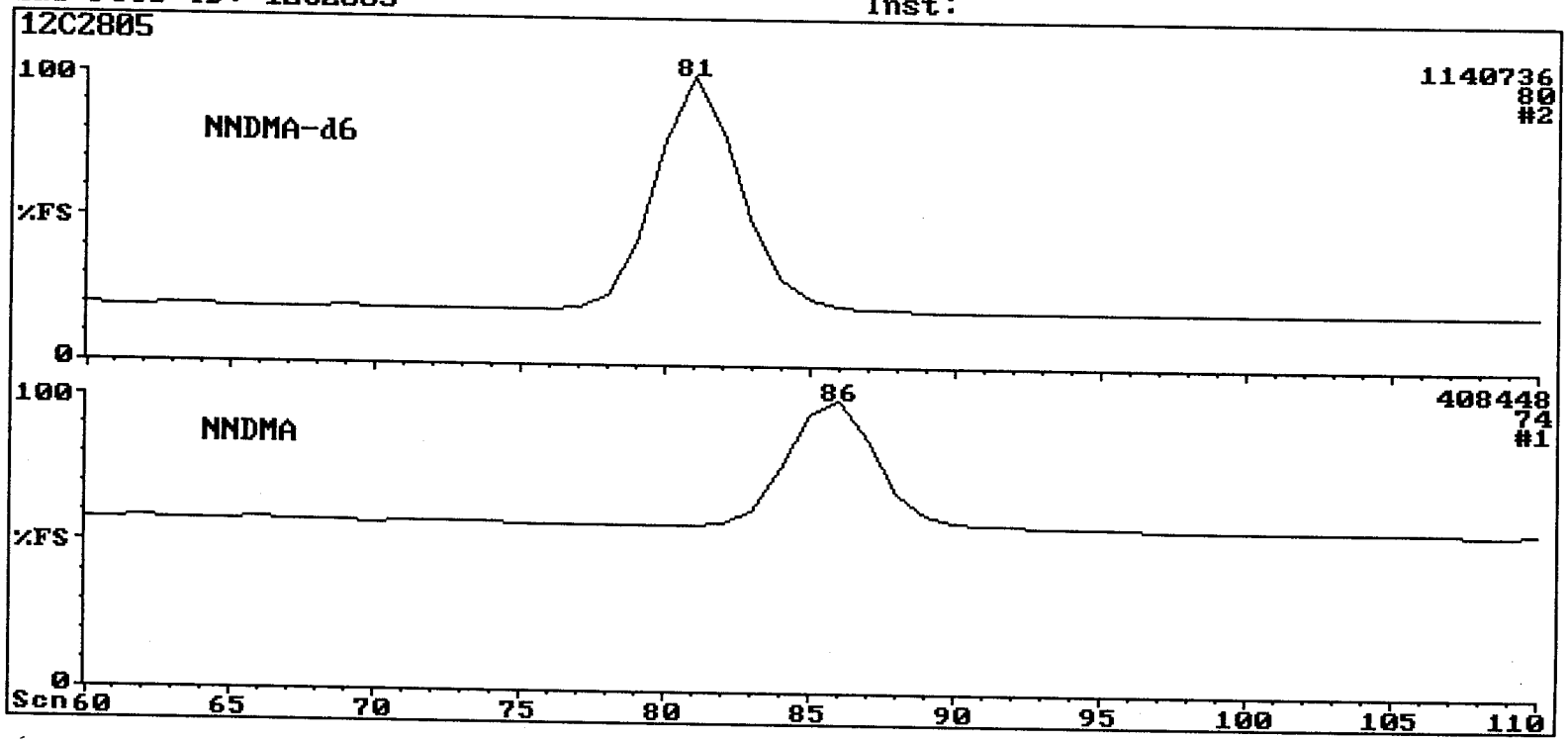
No.	Spectrum MAT	FOR	REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	92	47	100	0	11705333	bv	997	997	190	2,2'-Difluorobiphenyl
2	100	77	98	0	3197821	bv	81	81	80	N-Nitrosodimethylamine-d6
3	59	23	71	0	664128	!!	86	86	74	N-Nitrosodimethylamine
	39	18	64	6	15257	!!	92			
	35	18	64	8	11639	!!	94			

32

Sample: 0.02 PPM STD NSTD0.02 Analyzed: 03/28/06 0846
Lab File ID: 12C2805 Inst:



Sample: 0.02 PPM STD NSTD0.02 Analyzed: 03/28/06 0846
Lab File ID: 12C2805 Inst:



Sample No.: 0.05 PPM STD NSTD0.05 Analyzed: 03/28/06 0927
File ID: 12C2806 Instrument ID: VG12

Interim Report LAB-BASE FIND 03/28/~~86~~ 06 1213

03/28/06

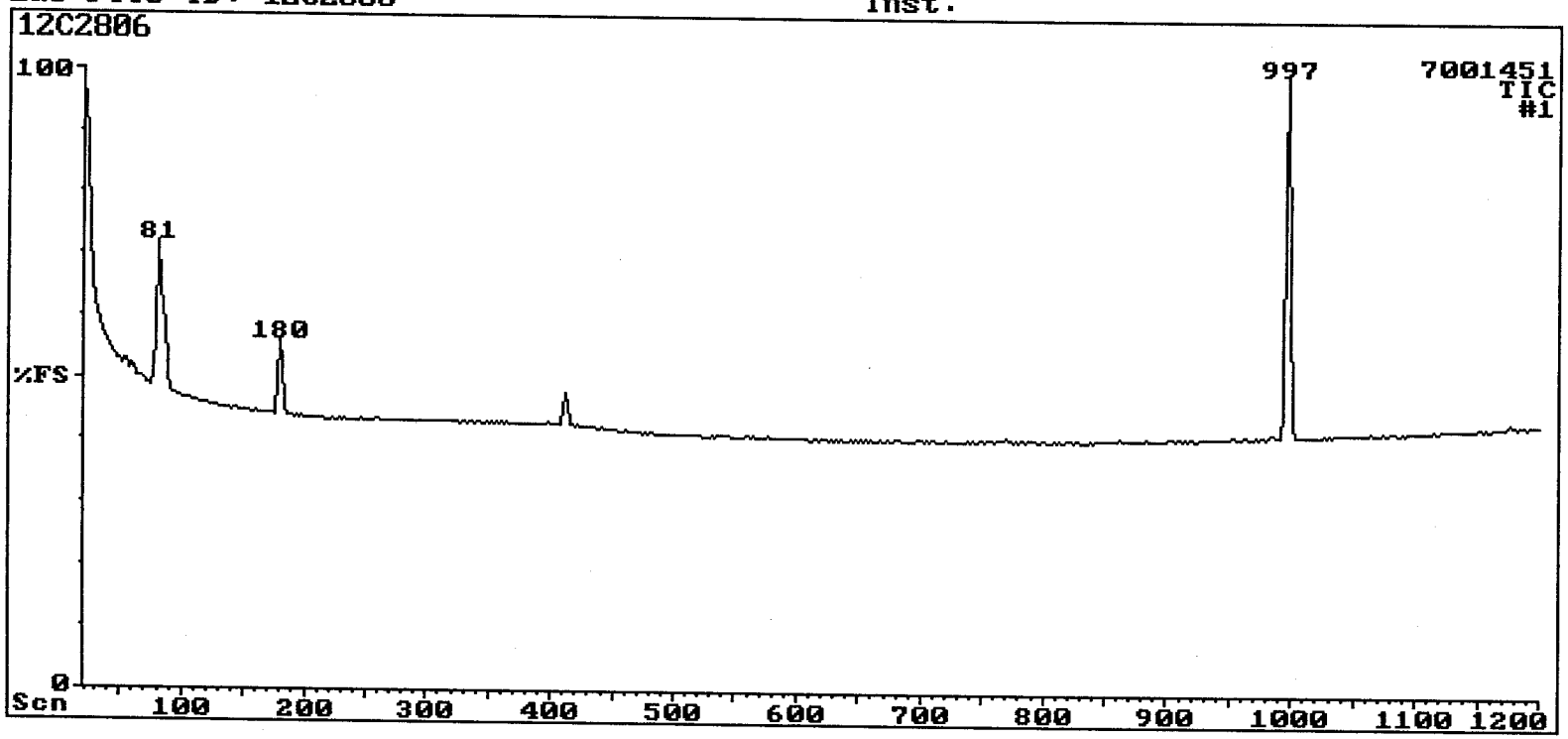
Raw Datafile : 12C2806
Find DB : NNDMA

Quan DB : 12C2806
Scan DB :

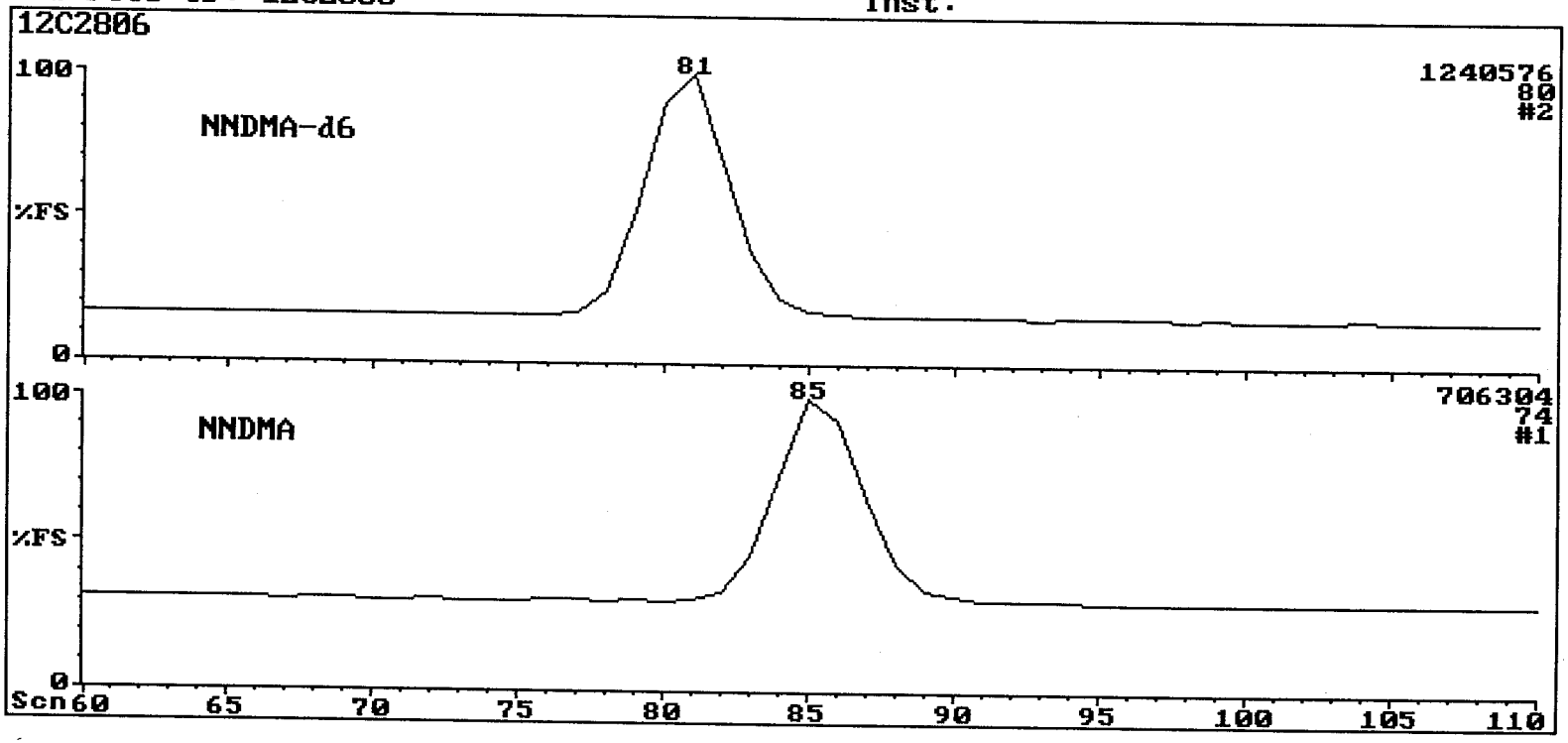
No.	Spectrum MAT	FOR	REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	94	57	100	-1	13624762	bv	997	998	190	2,2'-Difluorobiphenyl
2	100	78	99	0	3610834	bv	81	81	80	N-Nitrosodimethylamine-d6
3	70	35	81	-1	1807264	vv	85	86	74	N-Nitrosodimethylamine

35

Sample: 0.05 PPM STD NSTD0.05 Analyzed: 03/28/06 0927
Lab File ID: 12C2806 Inst:



Sample: 0.05 PPM STD NSTD0.05 Analyzed: 03/28/06 0927
Lab File ID: 12C2806 Inst:



Sample No.: 0.10 PPM STD NSTD0.10 Analyzed: 03/28/06 1009
File ID: 12C2807 Instrument ID: VG12

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Interim Report LAB-BASE FIND 03/28/~~86~~ 06 1214

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JS 3/28/06

Raw Datafile : 12C2807 Quan DB : 12C2807
Find DB : NNDMA Scan DB :

No.	Spectrum MAT	Scan FOR	Scan REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	97	61	100	-1	12963872	bb	997	998	190	2,2'-Difluorobiphenyl
2	100	78	100	0	3401352	bv	81	81	80	N-Nitrosodimethylamine-d6
3	80	47	86	-1	3302182	bv	85	86	74	N-Nitrosodimethylamine

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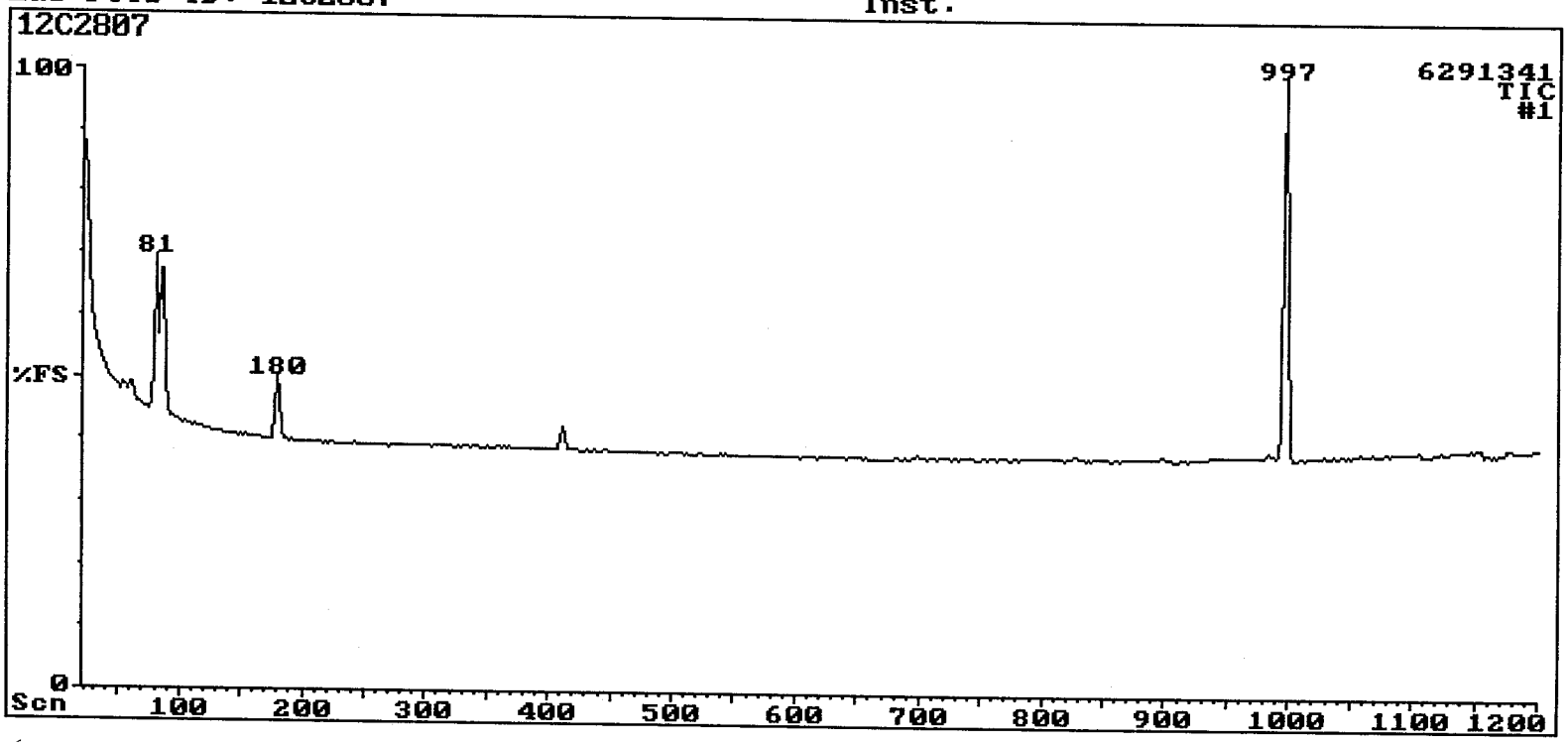
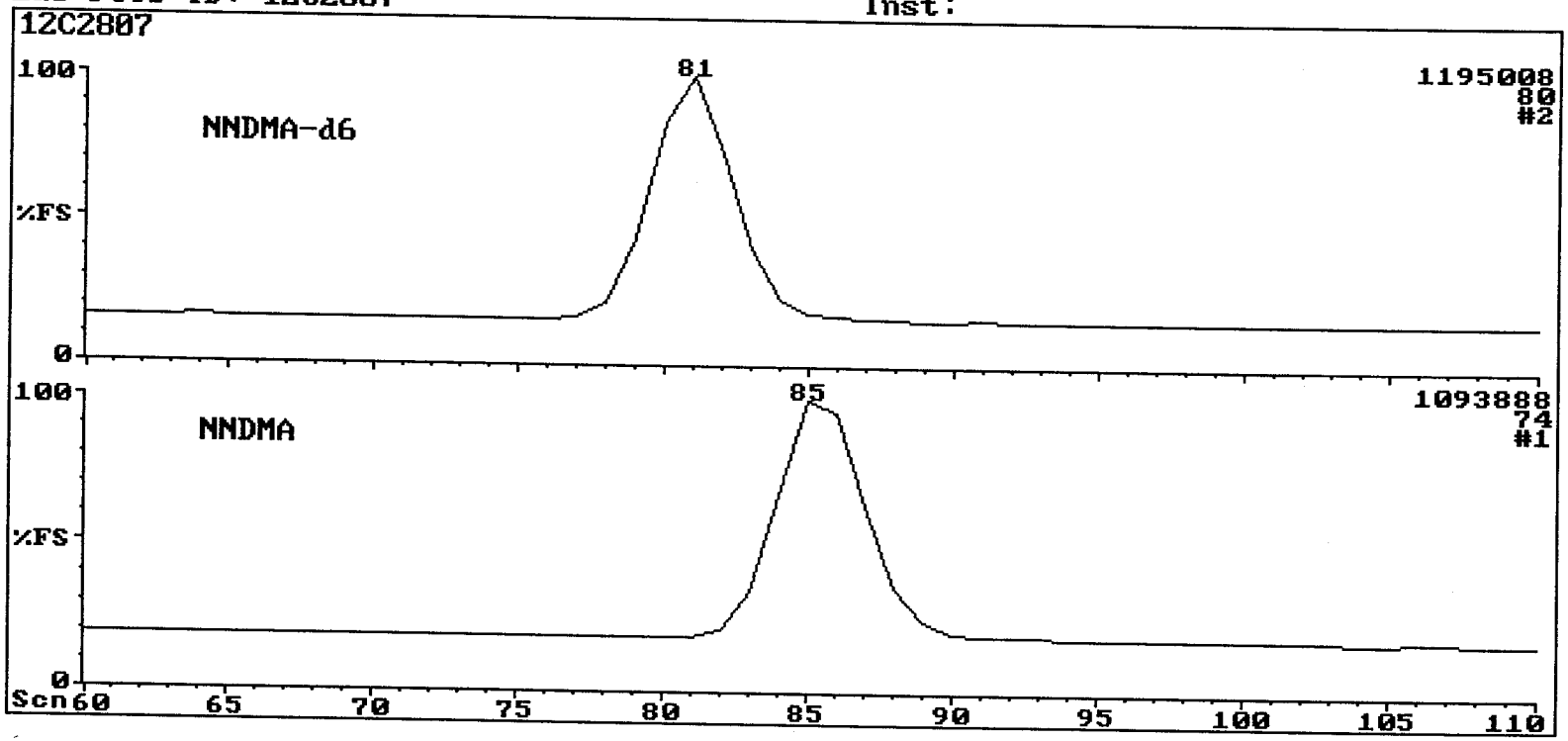
Sample: 0.10 PPM STD NSTD0.10 Analyzed: 03/28/06 1009
Lab File ID: 12C2807 Inst:



Sample: 0.10 PPM STD NSTD0.10 Analyzed: 03/28/06 1009
Lab File ID: 12C2807 Inst:



Sample No.: 0.50 PPM STD NSTD0.50 Analyzed: 03/28/06 1050
File ID: 12C2808 Instrument ID: VG12

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Interim Report LAB-BASE FIND 03/28/~~86~~ 06 1215

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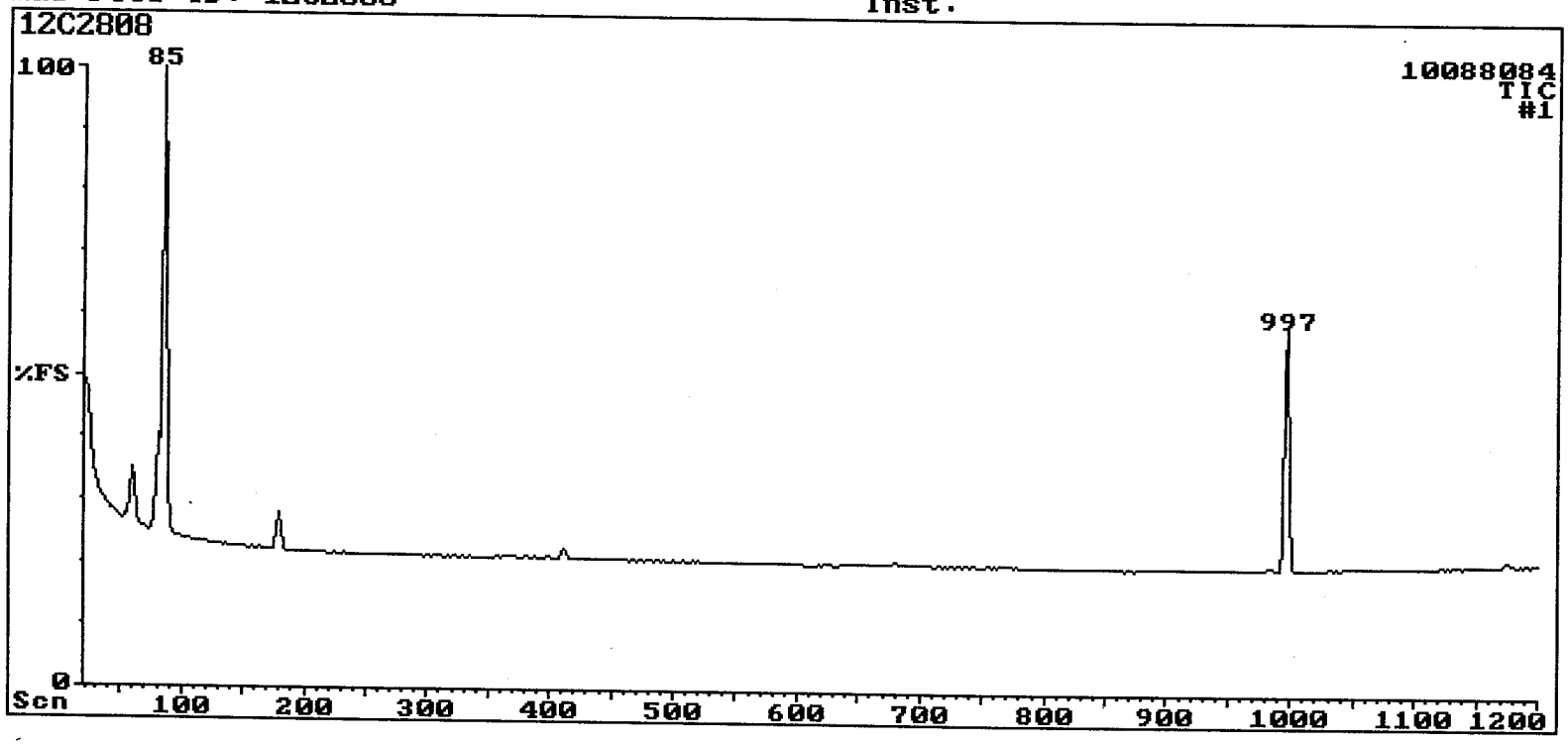
03/28/06

Raw Datafile : 12C2808 Quan DB : 12C2808
Find DB : NNDMA Scan DB :

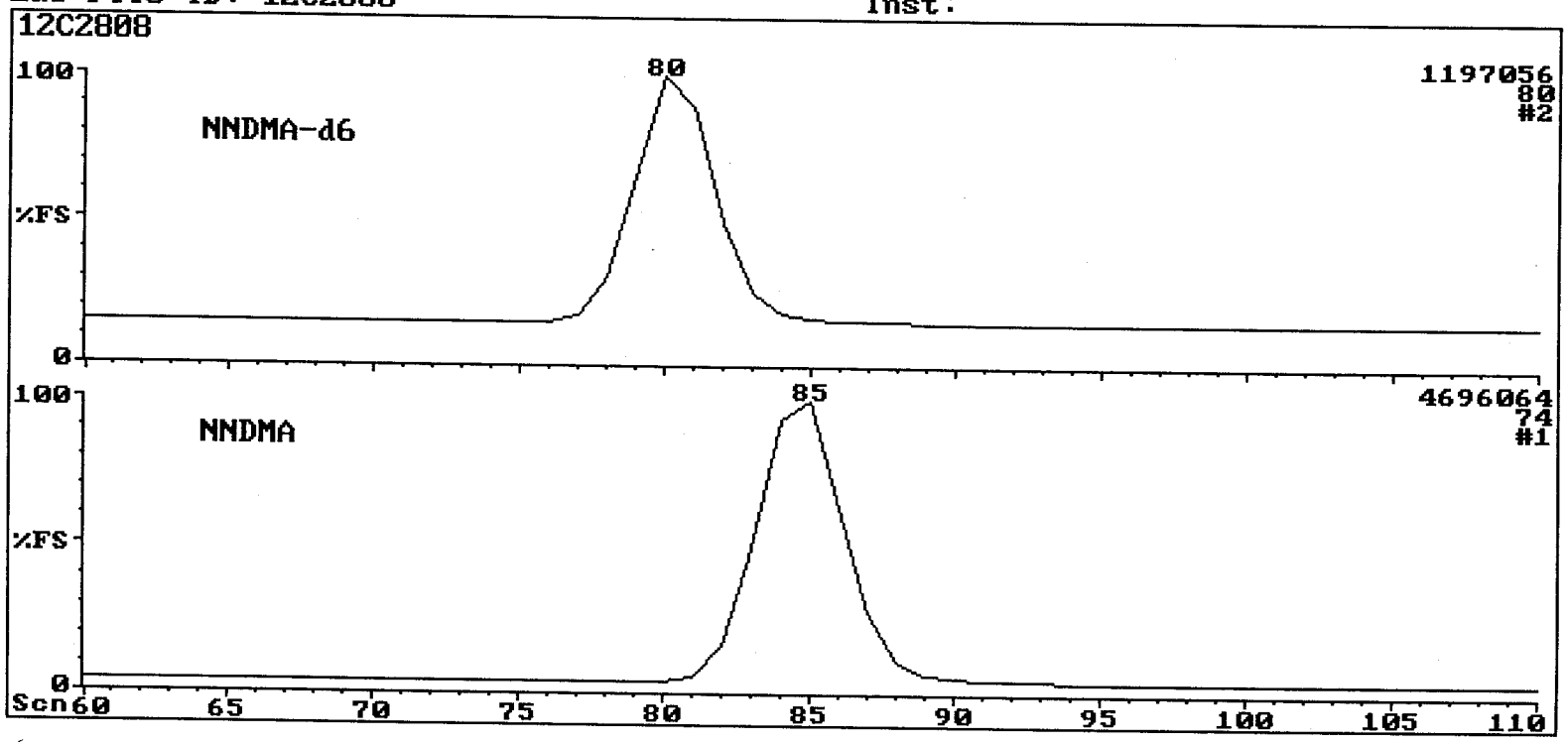
No.	Spectrum MAT	Scan FOR	Scan REV	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	QM	Compound Name
1	99	65	100	-1	13044297	vv	997	998	190	2,2'-Difluorobiphenyl
2	100	76	100	-1	3361353	bv	80	81	80	N-Nitrosodimethylamine-d6
3	100	76	90	-1	16048146	bv	85	86	74	N-Nitrosodimethylamine

41

Sample: 0.50 PPM STD NSTD0.50 Analyzed: 03/28/06 1050
Lab File ID: 12C2808 Inst:



Sample: 0.50 PPM STD NSTD0.50 Analyzed: 03/28/06 1050
Lab File ID: 12C2808 Inst:



Sample No.: 1.00 PPM STD NSTD1.00 Analyzed: 03/28/06 1131
File ID: 12C2809 Instrument ID: VG12

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Interim Report LAB-BASE FIND 03/28/~~86~~ 06 1215

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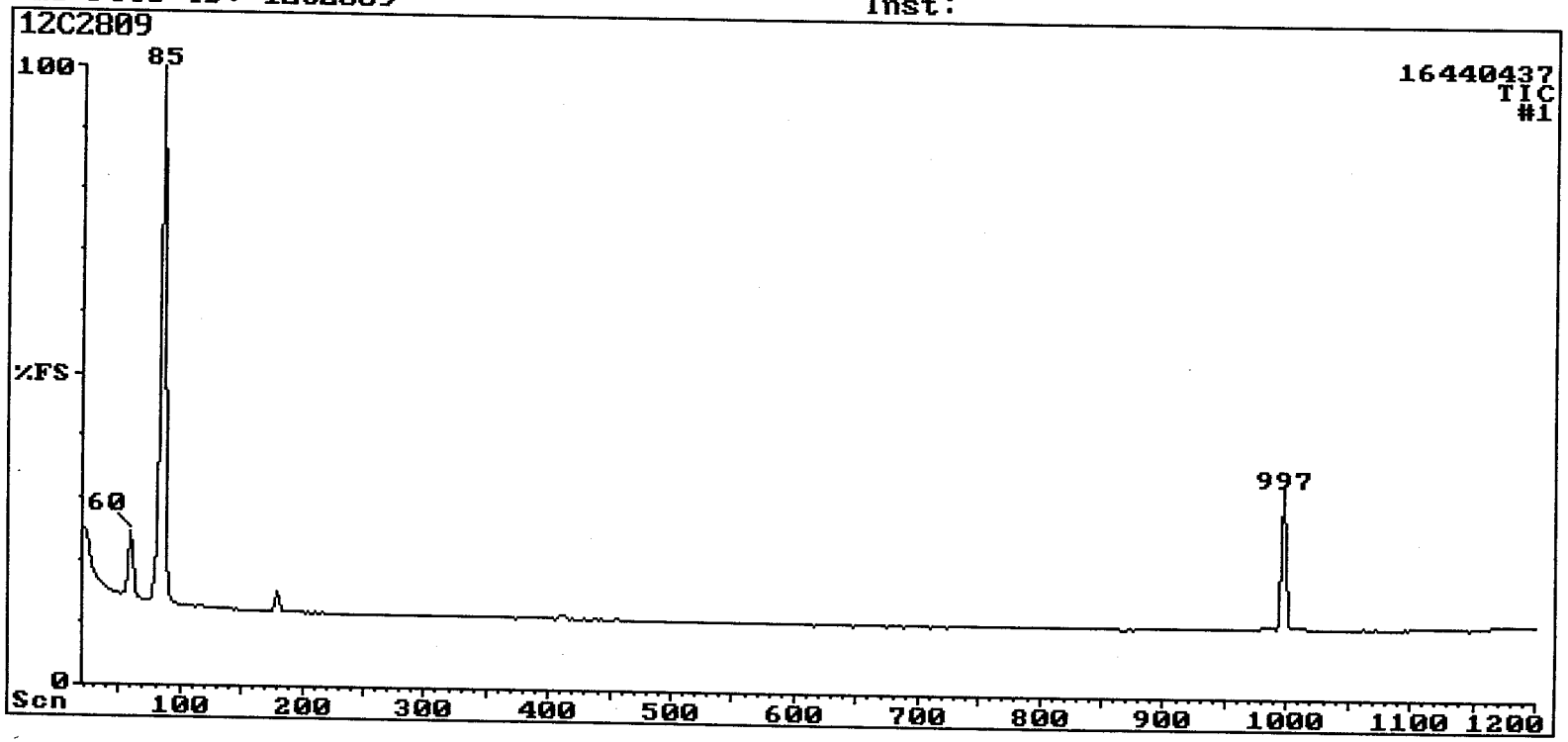
03/28/06

Raw Datafile : 12C2809 Quan DB : 12C2809
Find DB : NNDMA Scan DB :

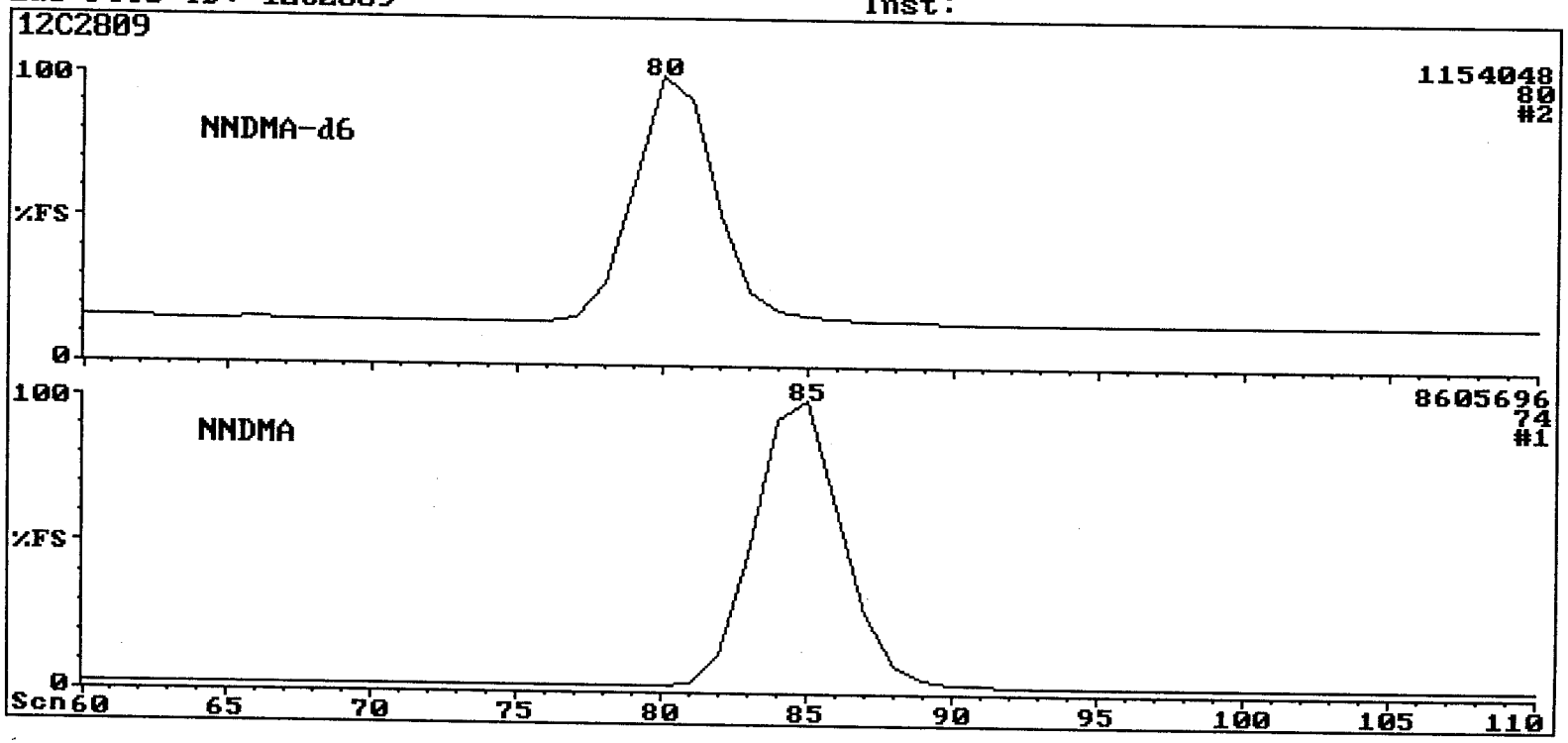
No.	Spectrum MAT	Spectrum FOR	Spectrum REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	65	100	0	12775864	bb	997	997	190	2,2'-Difluorobiphenyl
2	100	76	100	-1	3264154	vv	80	81	80	N-Nitrosodimethylamine-d6
3	100	83	91	-1	29804297	bv	85	86	74	N-Nitrosodimethylamine

44

Sample: 1.00 PPM STD NSTD1.00 Analyzed: 03/28/06 1131
Lab File ID: 12C2809 Inst:



Sample: 1.00 PPM STD NSTD1.00 Analyzed: 03/28/06 1131
Lab File ID: 12C2809 Inst:



Sample No.: 5.00 PPM STD NSTD5.00 Analyzed: 03/28/06 1212
File ID: 12C2810 Instrument ID: VG12

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Interim Report LAB-BASE FIND 03/28/~~05~~ 06 1235

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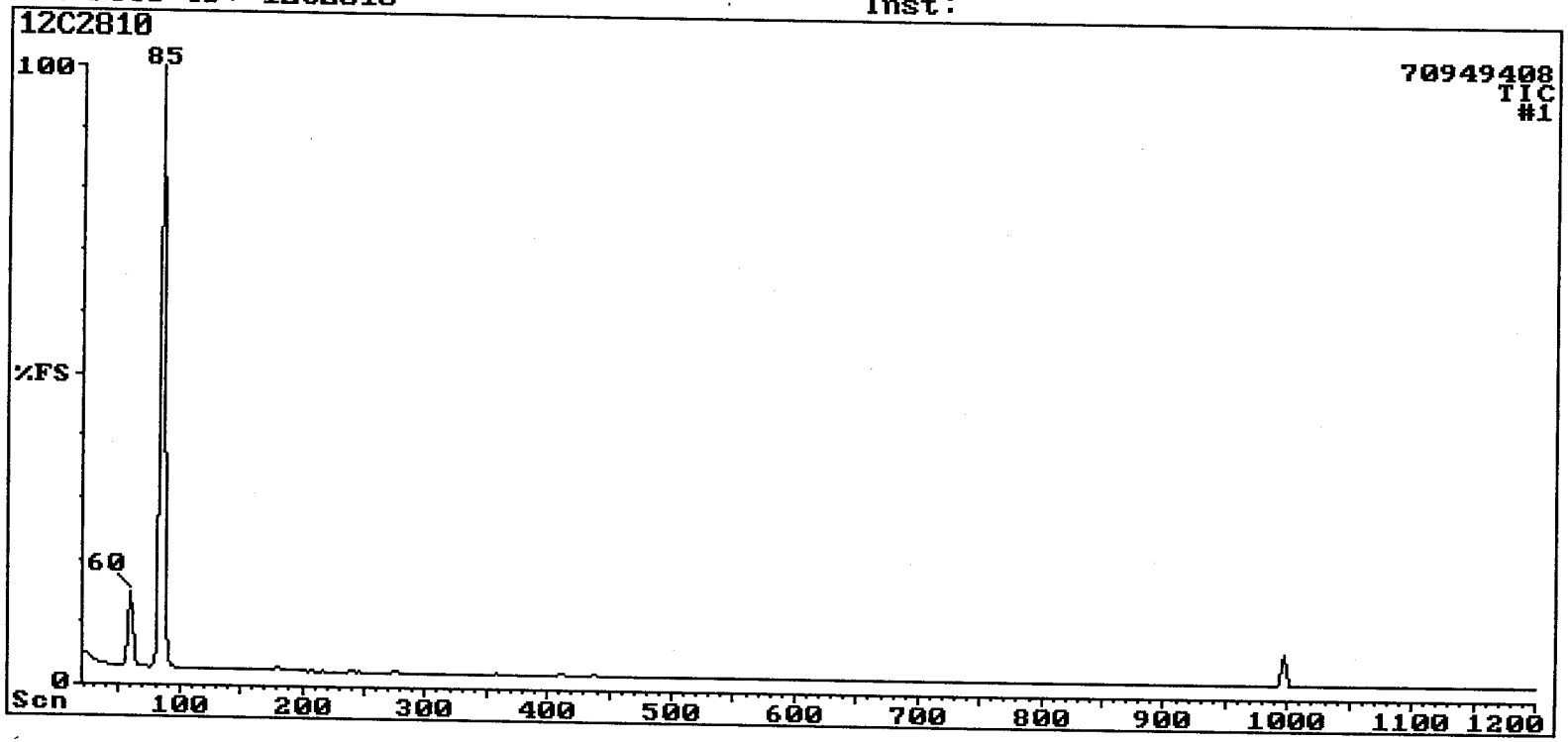
03/28/06

Raw Datafile : 12C2810 Quan DB : 12C2810
Find DB : NNDMA Scan DB :

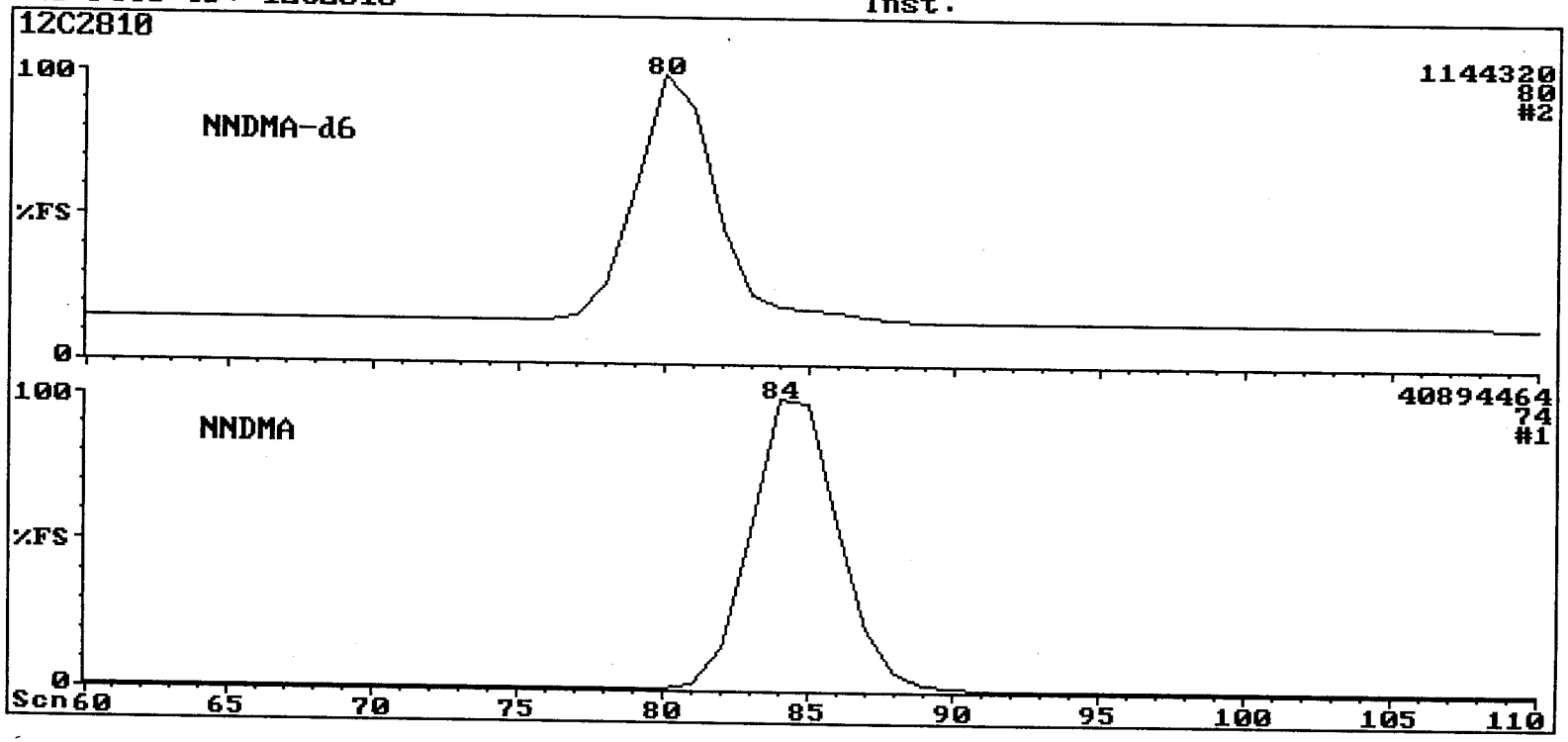
No.	Spectrum MAT	FOR	REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	67	100	0	12367912	bb	997	997	190	2,2'-Difluorobiphenyl
2	100	74	100	-1	3201472	bb	80	81	80	N-Nitrosodimethylamine-d6
3	100	91	93	-2	145586813	b?	84	86	74	N-Nitrosodimethylamine

47

Sample: 5.00 PPM STD NSTD5.00 Analyzed: 03/28/06 1212
Lab File ID: 12C2810 Inst:



Sample: 5.00 PPM STD NSTD5.00 Analyzed: 03/28/06 1212
Lab File ID: 12C2810 Inst:



EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0.0 PPM 2ND SRC DAIL

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: NA
Concentrated Extract Volume: NA
Injection Volume: 1 ul

Lab Sample ID: NSTD0.10
Lab File ID: 12C2823
Date Sampled:
Date Extracted:
Date Analyzed: 03/28/06
Time Analyzed: 2107

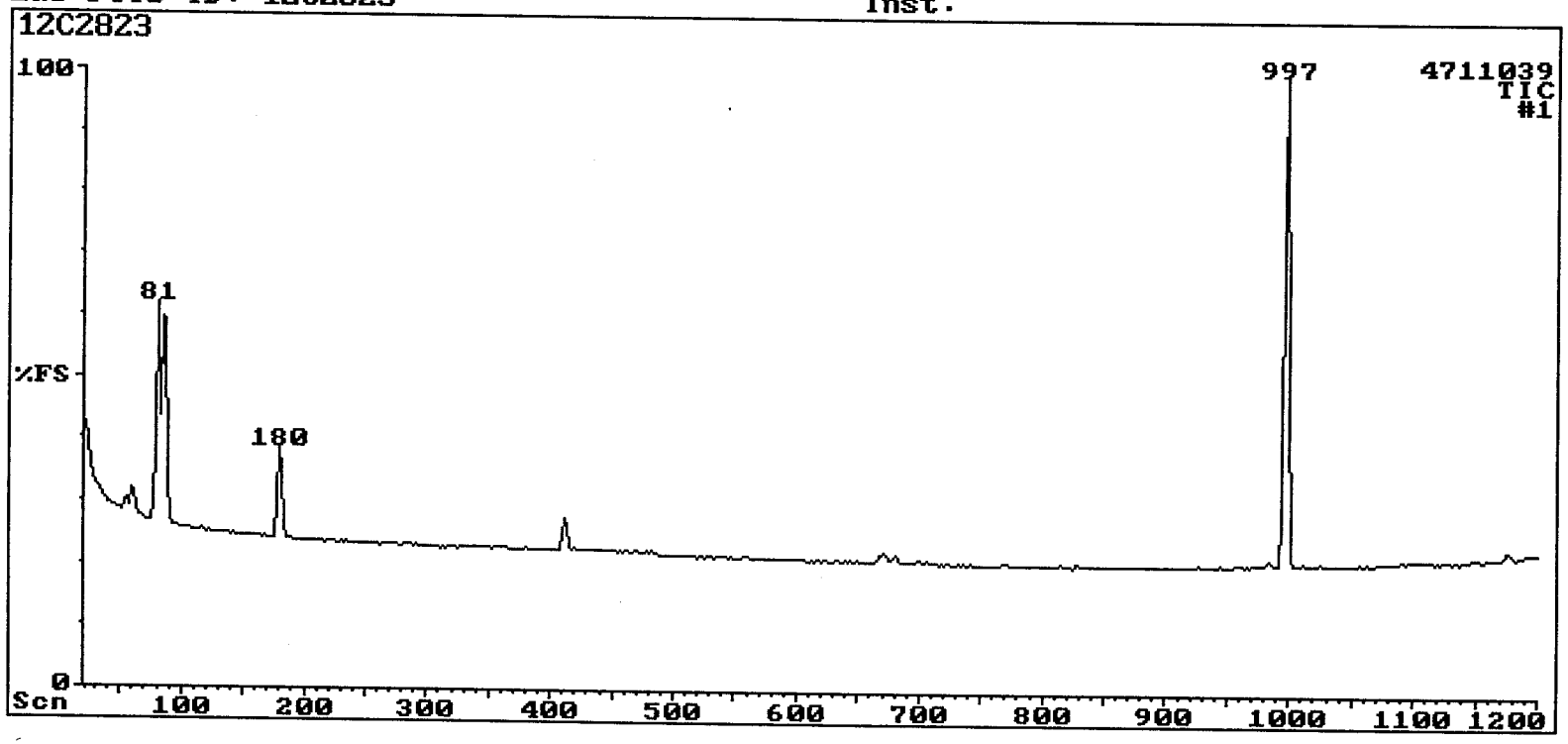
Compound	Daily Conc ug/mL	Daily Spike ug/mL	Recovery
N-Nitrosodimethylamine	0.0098	0.1000	98 %

U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve
na = Compound has no corresponding labeled reference
PQL = Practical Quantitation Limit

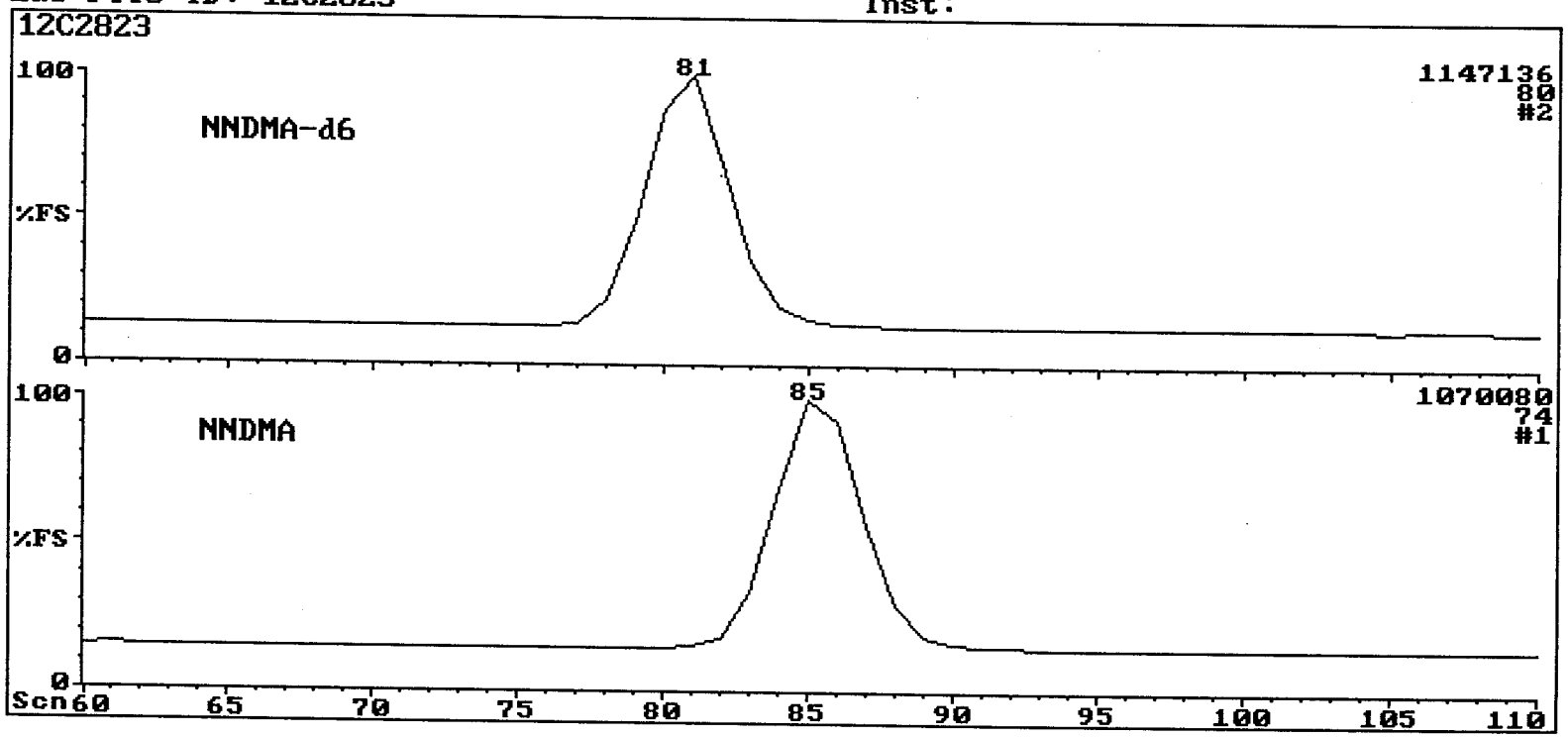
NNDMA MDL = 0.0005 ug/L

50

Sample: 0.0 PPM 2ND SRC DAILY NSTD0.10 Analyzed: 03/28/06 2107
Lab File ID: 12C2823 Inst:



Sample: 0.0 PPM 2ND SRC DAILY NSTD0.10 Analyzed: 03/28/06 2107
Lab File ID: 12C2823 Inst:



Sample No.: 0.0 PPM 2ND SRC NSTD0.10 Analyzed: 03/28/06 2107
File ID: 12C2823 Instrument ID: VG12

Interim Report LAB-BASE FIND 03/29/86 0520

Raw Datafile : 12C2823 Quan DB : 12C2823
Find DB : NNDMA Scan DB :

No.	Spectrum MAT	FOR	REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	77	100	0	12454422	vb	997	997	190	2,2'-Difluorobiphenyl
2	100	80	99	0	3447316	bv	81	81	80	N-Nitrosodimethylamine-d6
3	92	64	89	-1	3285197	bv	85	86	74	N-Nitrosodimethylamine

53

Daily Calibration Check

Sample: 0.0 PPM 2ND SRC DAIL Lab ID: NSTD0.10 File: 12C2823
Instr: VG12 Acqu Date: 03/28/06 Acqu Time: 2107
Initial Size: 1000.0000 Final Size: 0.1000 ml

Compound	Target Conc ug/ml	% Spike Rec	Limits	% Label Rec	Limits
N-Nitrosodimethylamine	0.09810	98	80 - 120	105	25 - 175

54

EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

P&R P56

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000.000 ml
Concentrated Extract Volume: 100 ul
Injection Volume: 1 ul

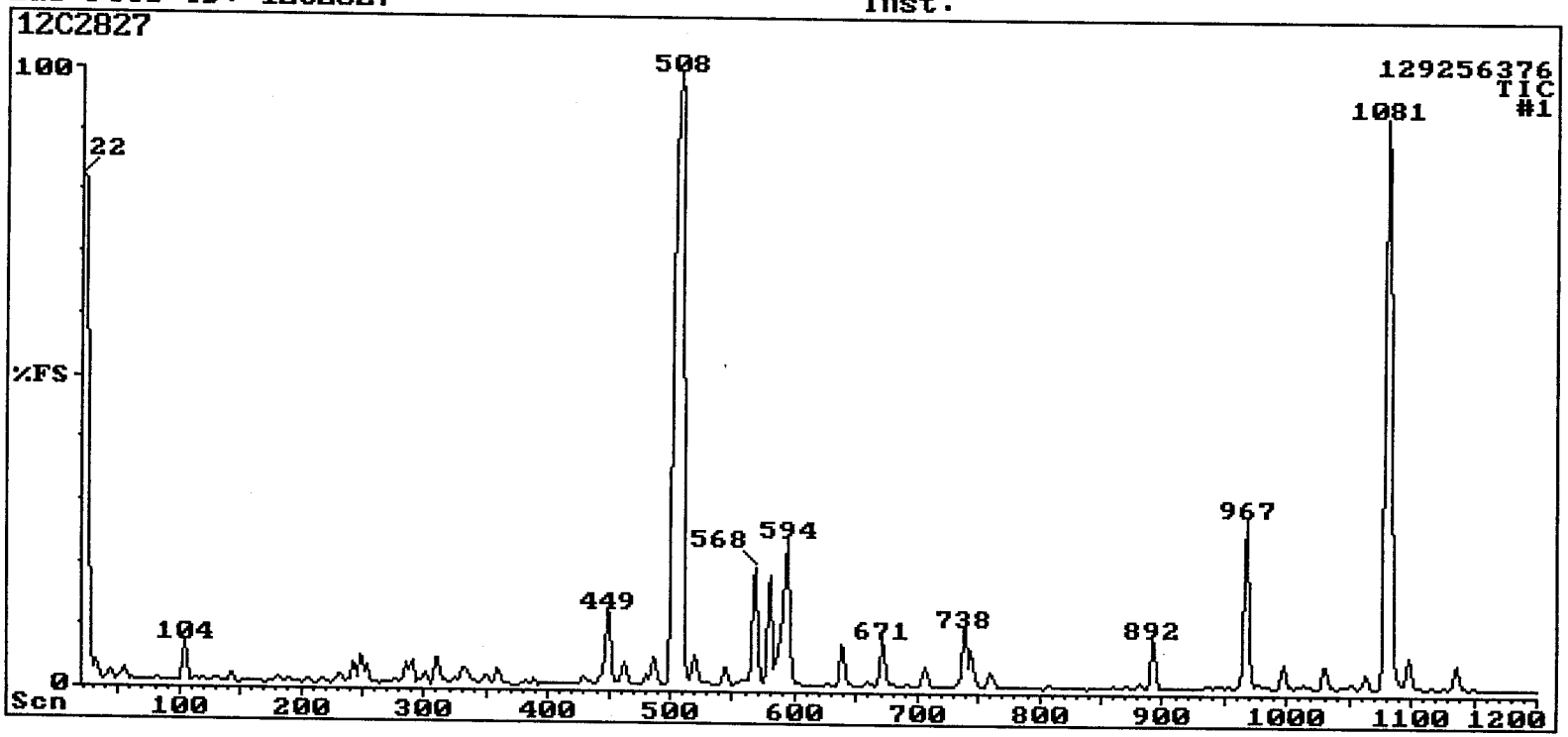
Lab Sample ID: P&R P56
Lab File ID: 12C2827
Date Sampled:
Date Extracted: 03/27/06
Date Analyzed: 03/28/06
Time Analyzed: 2353

Compound	Sample Conc ug/L	Spike Amt. ug/L	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.0020	0.0020	49 %

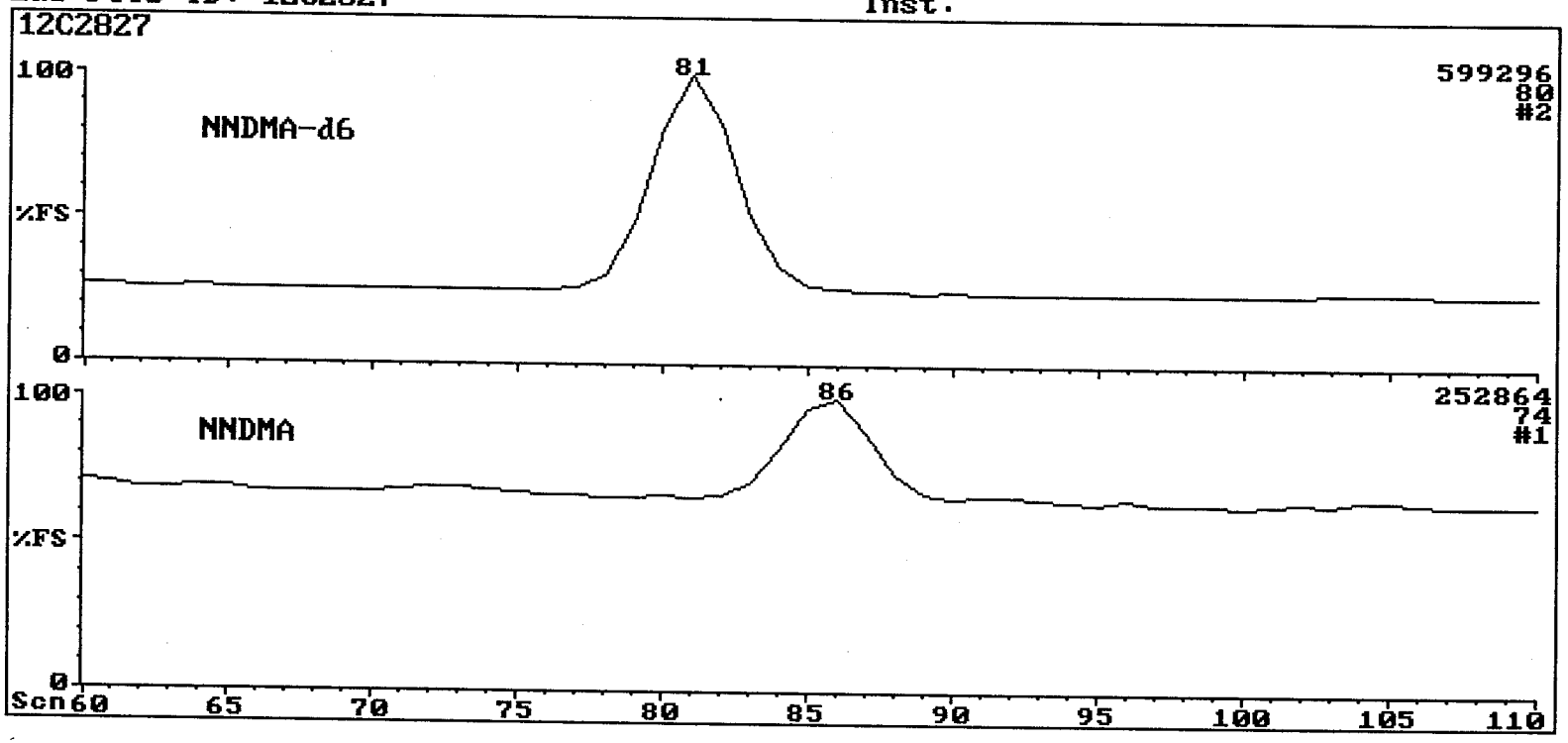
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve
na = Compound has no corresponding labeled reference
PQL = Practical Quantitation Limit

NNDMA MDL = 0.0005 ug/L

Sample: P&R P56 P&R P56 Analyzed: 03/28/06 2353
Lab File ID: 12C2827 Inst:



Sample: P&R P56 P&R P56 Analyzed: 03/28/06 2353
Lab File ID: 12C2827 Inst:



57

Sample No.: P&R P56 P&R P56 Analyzed: 03/28/06 2353
File ID: 12C2827 Instrument ID: VG12

Interim Report LAB-BASE FIND 03/29/~~86~~ 06 0523

0353/29/06

Raw Datafile : 12C2827 Quan DB : 12C2827
Find DB : NNDMA Scan DB :

No.	Spectrum MAT	Scan FOR	Scan REV	Scan Diff	Peak Area	Flgs	Scan Found	Scan Pred	QM	Compound Name
1	98	56	100	0	12222256	bb	997	997	190	2,2'-Difluorobiphenyl
2	100	69	99	0	1562784	vv	81	81	80	N-Nitrosodimethylamine-d6
3	71	40	74	0	326738	!!	86	86	74	N-Nitrosodimethylamine
	46	35	67	6	7520	!!	92			

58

On-going Accuracy (P&R) Check

Sample: P&R P56 Lab ID: P&R P56 File: 12C2827
Instr: VG12 Acqu Date: 03/28/06 Acqu Time: 2353
Initial Size: 1000.0000 Final Size: 0.1000 ml

Compound	Target Conc ug/ml	% Spike Rec	Limits	% Label Rec	Limits
N-Nitrosodimethylamine	0.02014	101	70 - 130	49	25 - 175

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EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

P&R P56DUP

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000.000 ml
Concentrated Extract Volume: 100 ul
Injection Volume: 1 ul

Lab Sample ID: P&R P56DUP
Lab File ID: 12C2828
Date Sampled:
Date Extracted: 03/27/06
Date Analyzed: 03/29/06
Time Analyzed: 0034

Compound	Sample Conc ug/L		Spike Amt. ug/L	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.0019	J	0.0020	45 %

U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve
na = Compound has no corresponding labeled reference
PQL = Practical Quantitation Limit

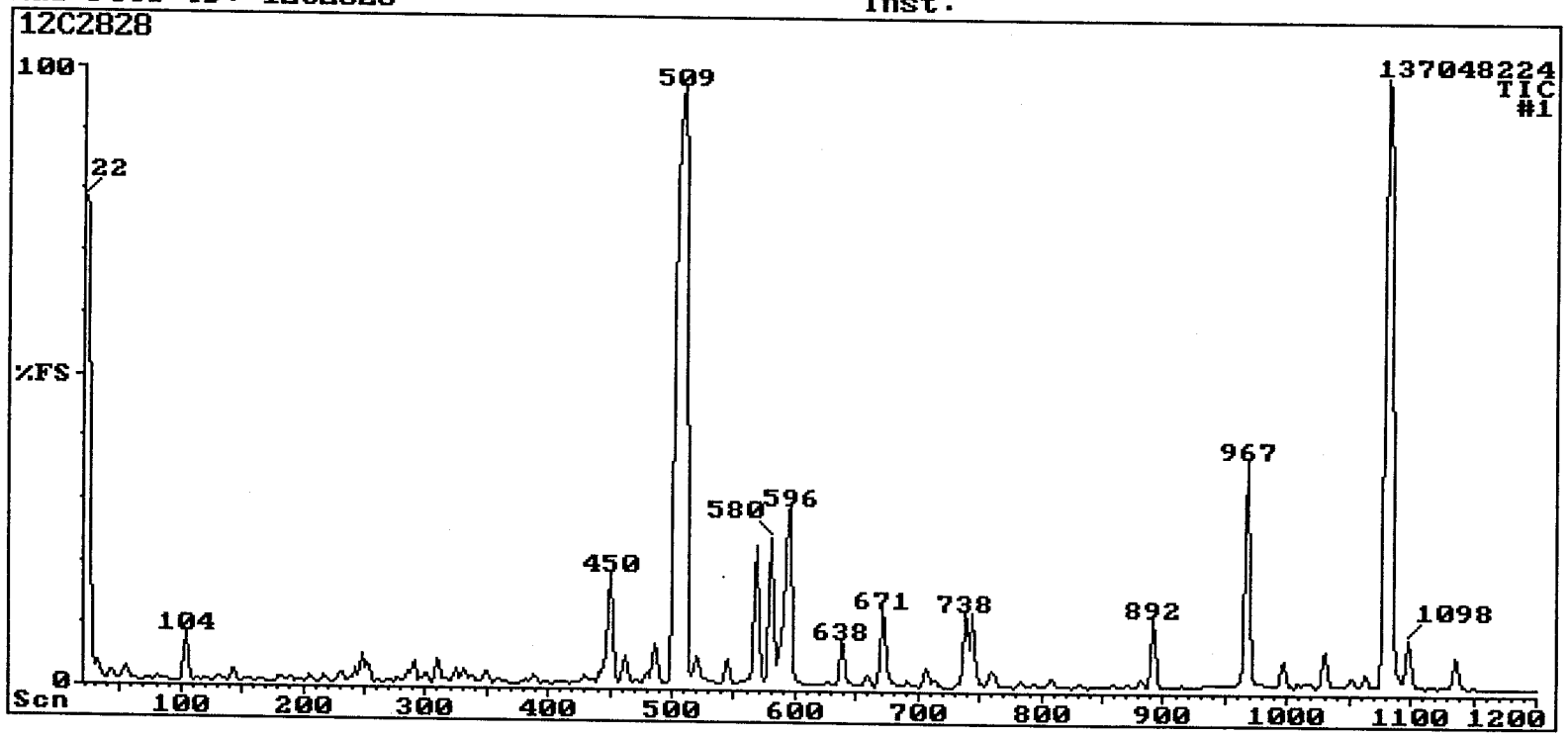
NNDMA MDL = 0.0005 ug/L

60

Sample: P&R P56DUP
Lab File ID: 12C2828

P&R P56DUP

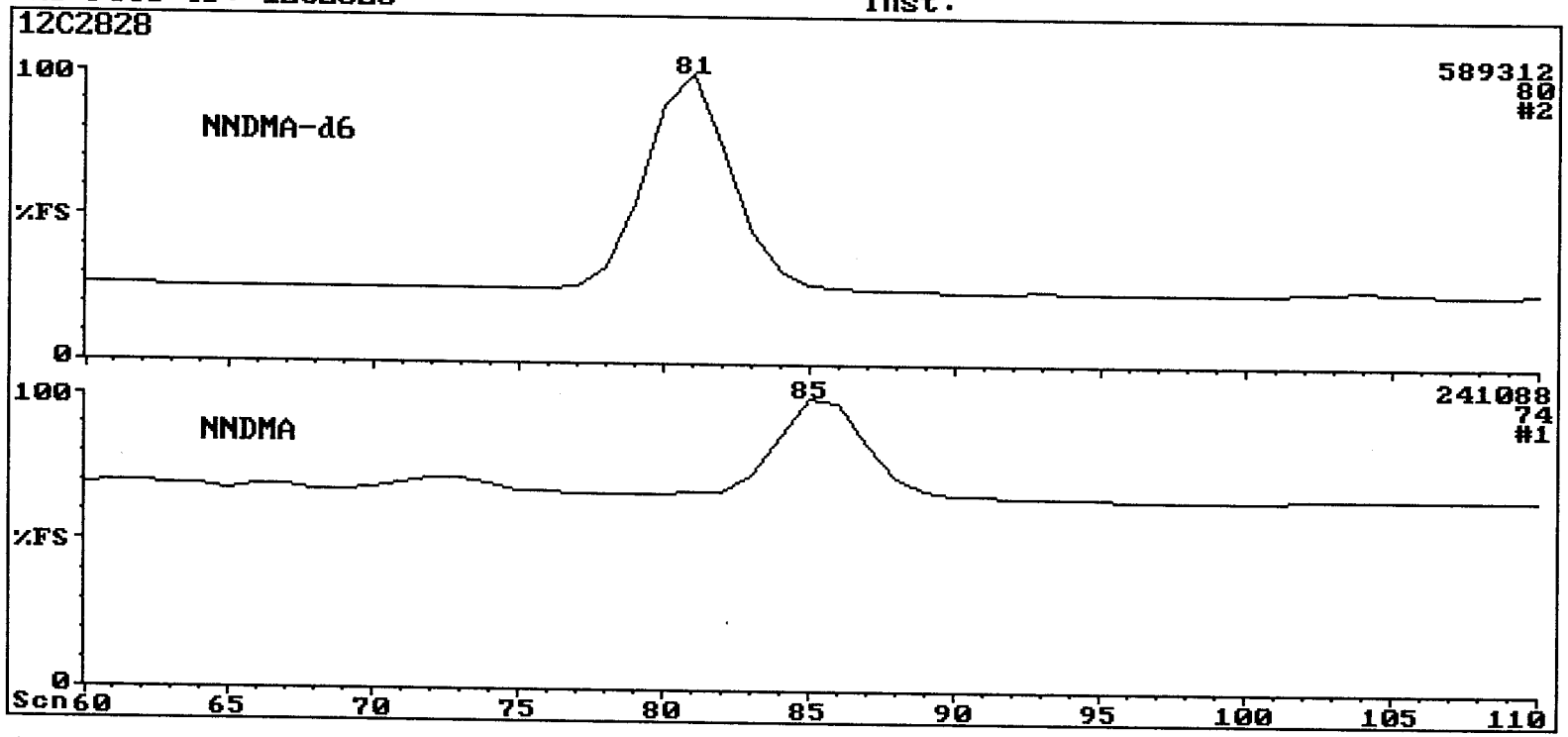
Analyzed: 03/29/06 0034
Inst:



Sample: P&R P56DUP
Lab File ID: 12C2828

P&R P56DUP

Analyzed: 03/29/06 0034
Inst:



Sample No.: P&R P56DUP P&R P56DUP Analyzed: 03/29/06 0034
File ID: 12C2828 Instrument ID: VG12

Interim Report LAB-BASE FIND 03/29/~~85~~ 06 0524

03/29/06

Raw Datafile : 12C2828
Find DB : NNDMA

Quan DB : 12C2828
Scan DB :

No.	Spectrum MAT	FOR	REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	94	51	100	0	12921768	bb	997	997	190	2,2'-Difluorobiphenyl
2	100	72	99	0	1531294	bv	81	81	80	N-Nitrosodimethylamine-d6
3	70	39	77	-1	298918	!!	85	86	74	N-Nitrosodimethylamine
	52	34	70	5	795	!!	91			
	47	34	70	7	1728	!!	93			

63

On-going Accuracy (P&R) Check

Sample: P&R P56DUP Lab ID: P&R P56DUP File: 12C2828
Instr: VG12 Acqu Date: 03/29/06 Acqu Time: 0034
Initial Size: 1000.0000 Final Size: 0.1000 ml

Compound	Target Conc ug/ml	% Spike Rec	Limits	% Label Rec	Limits
N-Nitrosodimethylamine	0.01880	94	70 - 130	45	25 - 175

64

EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B11625

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000.000 ml
Concentrated Extract Volume: 100 ul
Injection Volume: 1 ul

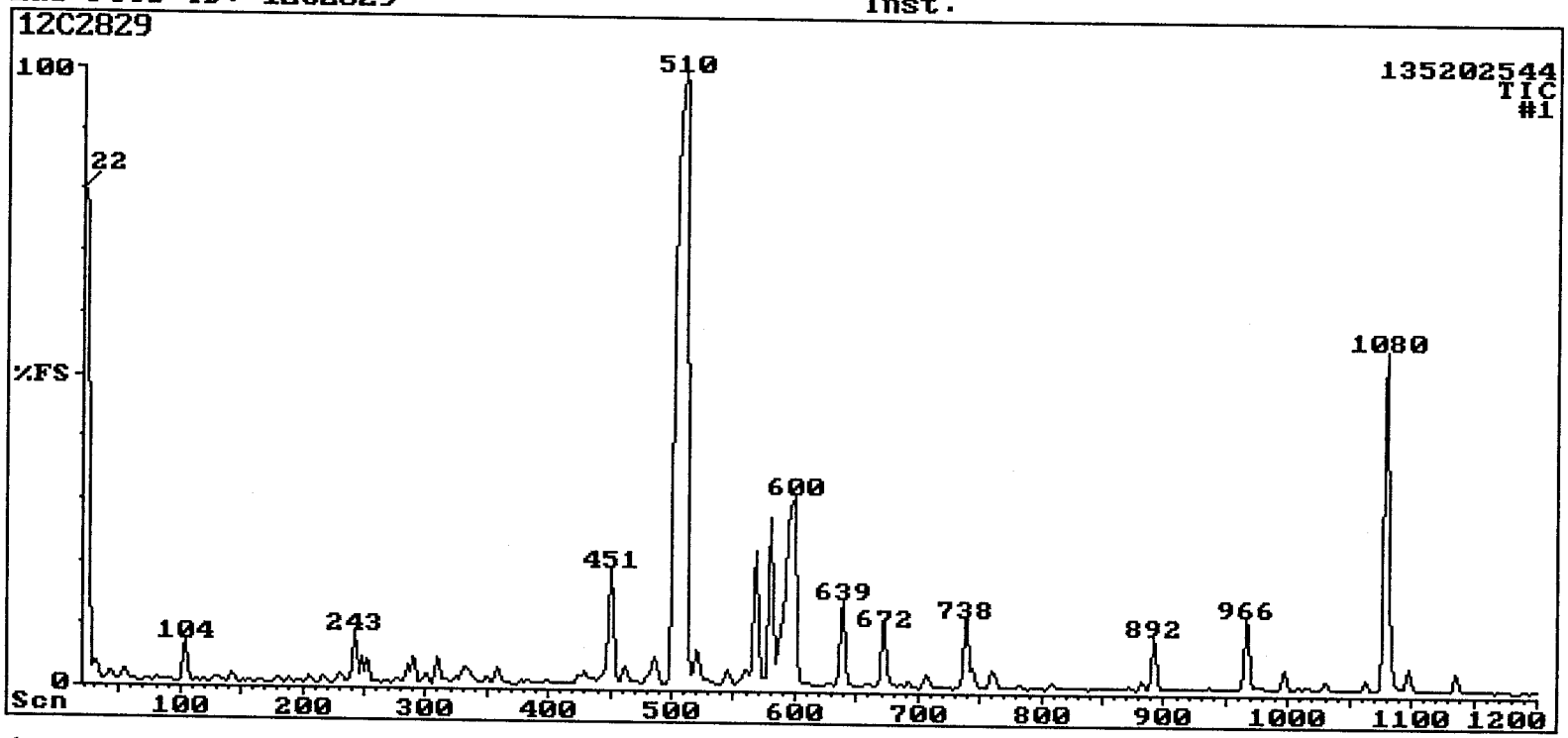
Lab Sample ID: 11625
Lab File ID: 12C2829
Date Sampled:
Date Extracted: 03/27/06
Date Analyzed: 03/29/06
Time Analyzed: 0116

Compound	Sample Conc ug/L		PQL ug/L	Labeled Cpd. Recovery
N-Nitrosodimethylamine		U	0.0020	52 %

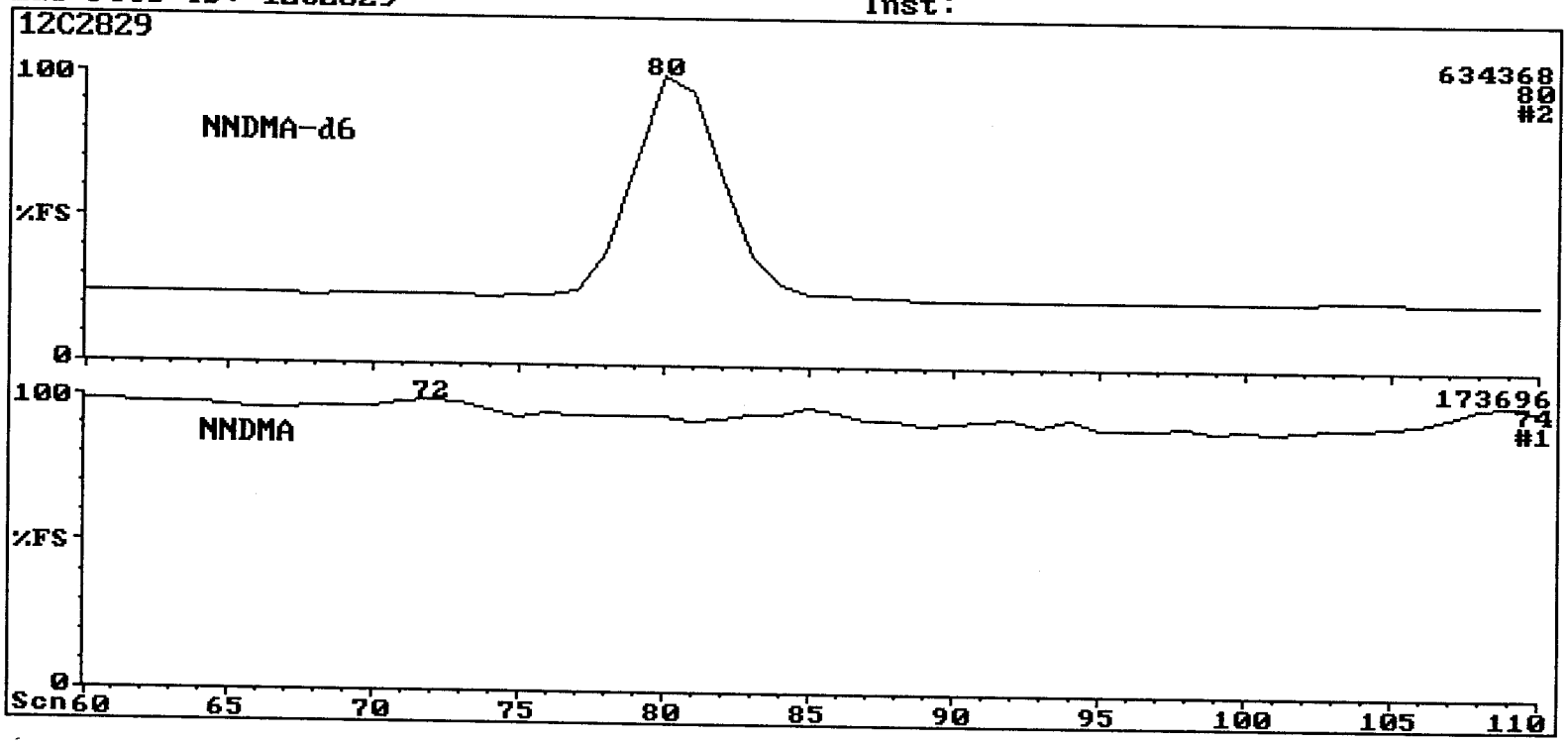
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve
na = Compound has no corresponding labeled reference
PQL = Practical Quantitation Limit

NNDMA MDL = 0.0005 ug/L

Sample: B11625 11625 Analyzed: 03/29/06 0116
Lab File ID: 12C2829 Inst:



Sample: B11625 11625 Analyzed: 03/29/06 0116
Lab File ID: 12C2829 Inst:



Sample No.: B11625 11625 Analyzed: 03/29/06 0116
File ID: 12C2829 Instrument ID: VG12

Interim Report LAB-BASE FIND 03/29/~~85~~ 06 0524

03/29/06

Raw Datafile : 12C2829
Find DB : NNDMA

Quan DB : 12C2829
Scan DB :

No.	Spectrum MAT	FOR	REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	67	100	-1	12936064	bb	997	998	190	2,2'-Difluorobiphenyl
2	100	71	99	-1	1777650	vb	80	81	80	N-Nitrosodimethylamine-d6
3	62	34	70	-1	29867	!!	85	86	74	N-Nitrosodimethylamine
	45	34	71	8	19392	!!	94			
	43	33	72	-10	6839	!!	76			

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Quantitation Results

Sample: B11625 Lab ID: 11625 File: 12C2829
Instr: VG12 Acqu Date: 03/29/06 Acqu Time: 0116
Initial Size: 1000.0000 Final Size: 0.1000 ml

Compound	Target Conc ug/ml	Sample Conc ug/L	% Label Rec	Limits
N-Nitrosodimethylamine	~~0.00162~~	~~0.00016~~	52	25 - 175

BDC
03/29/06

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EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B11626

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000.000 ml
Concentrated Extract Volume: 100 ul
Injection Volume: 1 ul

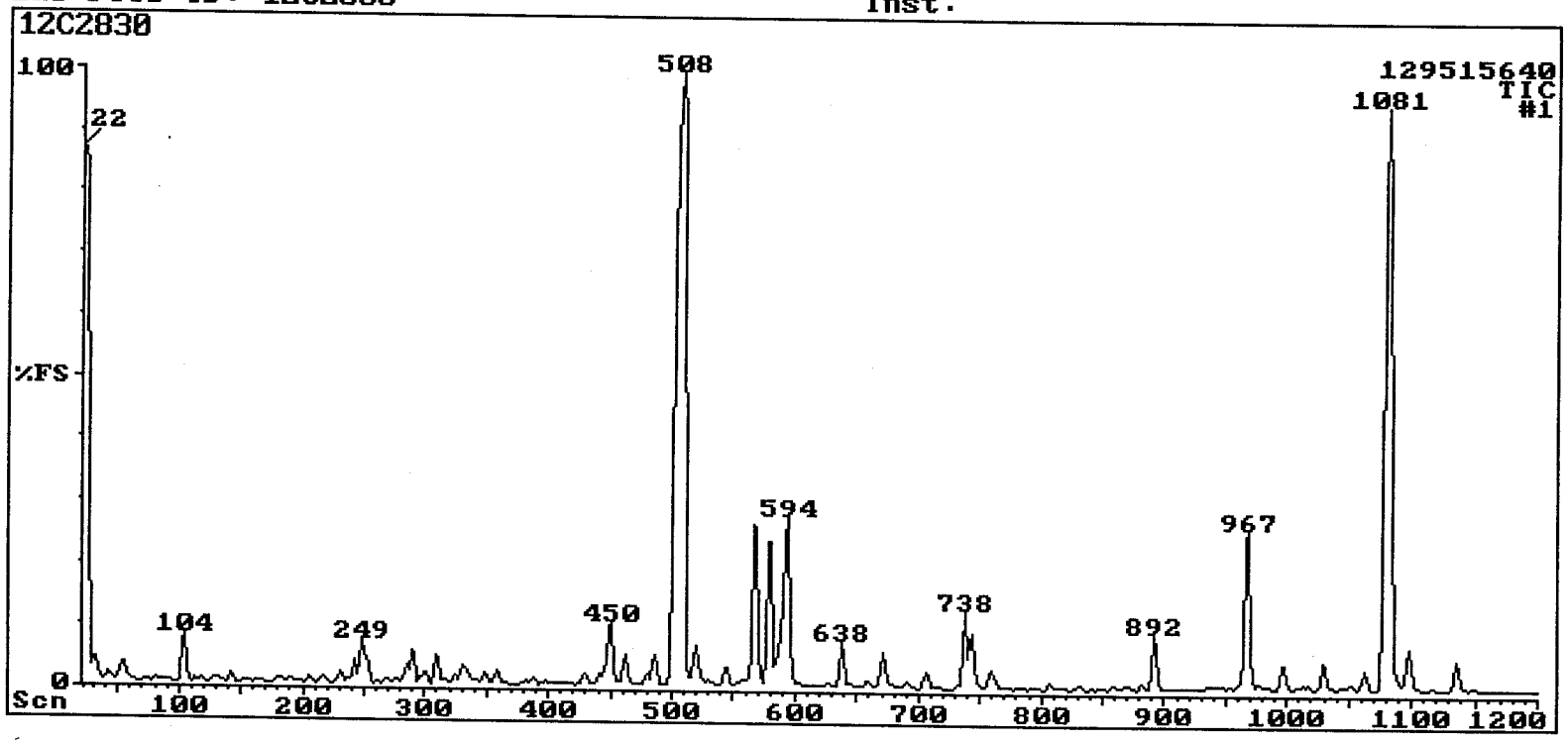
Lab Sample ID: 11626
Lab File ID: 12C2830
Date Sampled:
Date Extracted: 03/27/06
Date Analyzed: 03/29/06
Time Analyzed: 0157

Compound	Sample Conc ug/L		PQL ug/L	Labeled Cpd. Recovery
N-Nitrosodimethylamine		U	0.0020	47 %

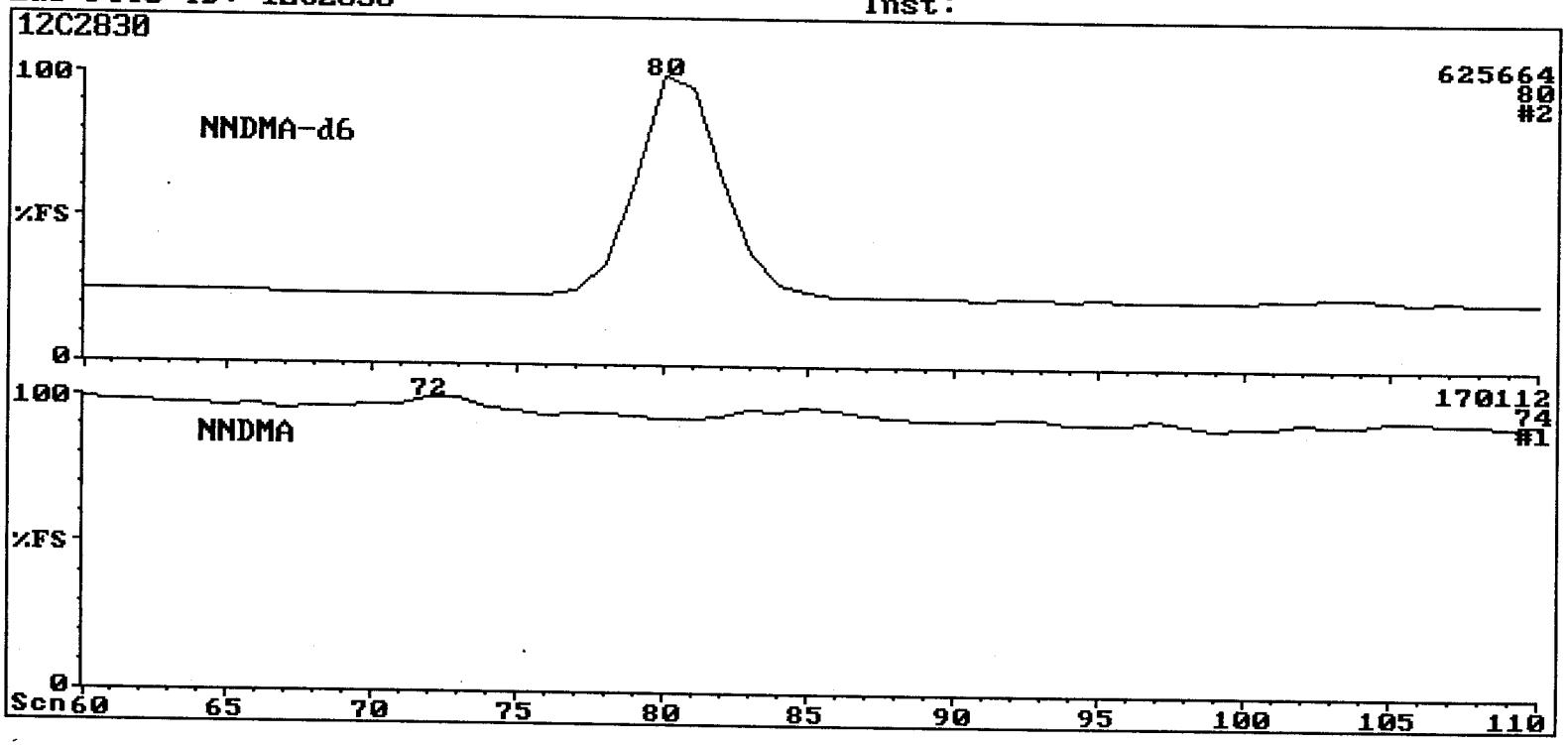
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve
na = Compound has no corresponding labeled reference
PQL = Practical Quantitation Limit

NNDMA MDL = 0.0005 ug/L

Sample: B11626 11626 Analyzed: 03/29/06 0157
Lab File ID: 12C2830 Inst:



Sample: B11626 11626 Analyzed: 03/29/06 0157
Lab File ID: 12C2830 Inst:



Sample No.: B11626 11626 Analyzed: 03/29/06 0157
File ID: 12C2830 Instrument ID: VG12

Interim Report LAB-BASE FIND 03/29/~~86~~ 0525
03/29/06

Raw Datafile : 12C2830 Quan DB : 12C2830
Find DB : NNDMA Scan DB :

No.	Spectrum MAT	FOR	REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	61	100	0	13756720	vb	997	997	190	2,2'-Difluorobiphenyl
2	100	71	98	-1	1682830	bv	80	81	80	N-Nitrosodimethylamine-d6
3	63	34	71	-1	44706	!!	85	86	74	N-Nitrosodimethylamine
	47	35	69	6	18179	!!	92			
	38	33	73	11	2650	!!	97			

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Quantitation Results

Sample: B11626 Lab ID: 11626 File: 12C2830
Instr: VG12 Acqu Date: 03/29/06 Acqu Time: 0157
Initial Size: 1000.0000 Final Size: 0.1000 ml

Compound	Target Conc ug/ml	Sample Conc ug/L	% Label Rec	Limits
N-Nitrosodimethylamine	~~0.00256~~	~~0.00026~~	47	25 - 175

BDC
05/29/06

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Pacific Analytical

GC/MS SEMI-VOLATILES RUN LOG

Instrument: V612 Page: 847

Cal File: 12C28 Date: 3/28/00

Notes: NDMA

Taped	Sample ID	File Name	OK	Description	OP
		12C2801		Warm-up	CB
		02			
		03			
		04			
	NSTD0.02	05		0.02 ug/ml NDMA Std	
	NSTD0.05	06		0.05	
	NSTD0.10	07		0.10	
	NSTD0.50	08		0.50	
	NSTD1.00	09		1.00	
	NSTD5.00	10		5.00	
	PtRP54	11		OPR	
	PtRP54Dup	12			
	PtRP55	13			
	PtRP55Dup	14			
	11621	15		Lab Blank	
	11622	16			
	11623	17			
	11624	18			
	2530-001	19			
	2530-002	20			
	2526-001	21			
	2532-001	22			
	NSTD0.10	23		0.10 ug/mL NDMA 2nd Std Daily	
	2532-002	24			
	2532-003	25			

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Reviewed by _____ on _____

Pacific Analytical

GC/MS SEMI-VOLATILES RUN LOG

Instrument: V612 Page: 848

Cal File: 12C28 Date: 3/28/06

Notes:

NPDMA

Taped	Sample ID	File Name	OK	Description	OP
	2532-004	12C2826			OB
	R+RP56	27		CPR	
	R+RP56Dup	28			
	116 25	29		Lab Blank	
	116 26	30			
	2544-001	31			
	2544-002	32			
	2544-003	33			
	2544-004	34			
	2544-005	35			
	2544-004	36			
	2530-001DL	37		100X	
	2530-002DL	38		100X	

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Reviewed by: _____ Date: _____

Client: Curtis & Tompkins, Ltd. NEOUS Job # 2544

Extraction Date: 3/27/06 Extraction Method: NNDMA by L/L Extraction Solvent: DCM Lot #: 45301 Initials: ML

Matrix: H_2O Other Reagents: ascorbic acid Lot #: 1mL

	Label:	Date Made:	Concentration:	Volume added:	Date Spiked:	Initials:	Comments:
1. Surrogate Spike	NDMA-1,4 Dioxane	6/05 2/28/06	0.02 µg/mL	500 µL	3/27/06	ML	
2. Matrix Spike	NDMA+1,4 Dioxane	12/12/05	0.02-0.10 µg/mL	100 µL	3/27/06	ML	
3. Internal Stndrd.	Nitrosamines IS	9/7/05	1 µg/mL	10 µL	3/27/06	ML	

Sample #:	Sample Size: Extracted:	% Moisture Solids:	Extraction pH	Standards (check) 1	2	3	Initial Extract Volume: A	Aliquot Removed for Prep: B	Volume After Prep: C	Calculated Final Volume: A/B x C =	Comments: (Cleanup Methods used and Information concerning unusual sample and extract behavior)
RRPS6	1000mL	N/A	6-8	X	X	X	100mL	10mL	100mL	100mL	
1 dup				X	X	X					
11625				X		X					
11626				X		X					
2544-01				X		X					
-02				X		X					
-03				X		X					
-04				X		X					
-05				X		X					

QA Review: _____

2544 Curtis & Tompkins, 5-NDMA (TAT: 30)

Lab ID	NDMA
2544-001	P
2544-002	P
2544-003	P
2544-004	P
2544-005	P

Lab ID	Cust ID	Sampled	Rec'vd	Login ID
2544-001	NKGW02	03/20/06	03/23/06	01763
2544-002	NKGW05	03/20/06	03/23/06	01763
2544-003	NKGW01	03/20/06	03/23/06	01763
2544-004	NKGW04	03/20/06	03/23/06	01763
2544-005	DUP0320061A	03/20/06	03/23/06	01763

Lab ID	Description	Comment
2544-001	2 AL x Water	ok
2544-002	2 AL x Water	ok
2544-003	2 AL x Water	ok
2544-004	2 AL x Water	ok
2544-005	2 AL x Water	ok

Login	Loggin by	Shipper	Shipper Code	CofC
01763	Mike Lewandowski	California Overnight	C10129000025349	OK

Pacific Analytical, inc.

SAMPLE LOG-IN SHEET -- *Initial*

JOB #	LOG-IN DATE
2544	3/23/06

Received By *(print name)*: Mike Wawrzkowski

Received By *(signature)*: Mike [illegible]

CLIENT	Curtis & Tompkins
Received From	–
Custody seals	*Present* (*Absent*) *Intact* *Broken*
Custody Seal #'s	N/A
Airbill	(*Airbill*) *Sticker* (*Present*) *Absent* *
Airbill #	C10129000025349/57
Date Rec'd	3/23/06
Time Rec'd	10:00
Chain of Custody or Traffic Reports	(*Present*) *Absent* *
Sample Label	(*Present*) *Absent* *
Sample ID #'s on COC	(*Listed*) *Not Listed*
Sample Condition	(*Intact*) *Broken* *Leaking*
Does information on Custody records, reports and sample tags agree?	(*Yes*) *No*

# of Coolers: 2

TEMP: 4°C

LAB ID #	SAMPLE #	ANALYSIS	# of Containers	CONTAINER TYPE	Matrix Code *(see table below)*	CONDITION
2544-001	NKGW02	NDMA	2	AL	Water	ok
-002	05					
-003	01					
-004	04					
-005	DUP032006 1A					

* COMMENTS

Matrix Codes: DW = Drinking Water WW = Wastewater S = Soil SL = Sludge O = Other

Container Types: AL = Amber Liter VOA = 40 mL vial SJ = Solid jar BT = Brass Tube OTC = Other Type Container

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 185778

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.04.51
Location: Presidio

Sample ID	Lab ID
WT032406	185778-001
1260GW101	185778-002
1260GW103	185778-003
1221GW104	185778-004
DAESP03	185778-005

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 4/13/06
Operations Manager

Signature: _____ Date: 4/13/06
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**185778**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**03/24/06**
Samples Received:	**03/24/06**

This hardcopy data package contains sample and QC results for four water samples, requested for the above referenced project on 03/24/06. The samples were received cold and intact.

Polynuclear Aromatics by HPLC (EPA 8310):
No analytical problems were encountered.

Surfactants (MBAS) (EPA 425.1):
No analytical problems were encountered.

Chain of Custody

Treadwell&Rollo

Environmental and Geotechnical Consultants

555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

185778

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2109
Page: ___ of ___

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTS, John D. Doany
Recorder (signature required): [signature]
Sent to Laboratory (Name): CTT

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M)[1]	TPHfo (8015M)[1]	VOCs (8260)	General Chemistry[2]	OCPs (8081)	Metals - Dissolved[3] (23, 22, 13, 9, 8, 7, 3, Other)	Metals - Total[3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	Cyanide	Diss Sulfide	Oil/grease total	phenolic Compd.	PH	Total recoverable oil & grease	MBAS	COMMENTS / NOTES
-1 WT032406	3/24/06	1040			X		1	1	1	2	4							X				X	X	X	X	X	X		run total recoverable
-2 1260GW101	↓	0840			X						2										X								oil & grease only if
-3 1260GW103		0910			X						2										X								oil/grease total is
-4 1221GW104		0950			X						2										X								above ND.
-5 DAESP03		1005			X						1																	X	
												•			•														
																													~~Only~~ CES

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists (23** - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (Other - As, Cd, Cr, Cu, Pb, Hg, Ni, Zn, Ag)

RELINQUISHED BY: [signature]	DATE: 3/24/06	RECEIVED BY: [signature]	DATE: 3/24/06
PRINT NAME: FIRM:	TIME: 1230	PRINT NAME: AARON GRENIER FIRM: CTT	TIME: 1230
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

White Copy - Original **Yellow Copy** - Laboratory **Pink Copy** - Field

CURTIS & TOMPKINS, LTD. BERKELEY

LOGIN CHANGE FORM

Reason for change: X Client Request By: J.Graber
Login Review Data Review

Date/Time: 3/24/06 13:34 Initials: SES

Current Lab ID	Previous Lab ID	Client ID	Matrix	Add/Cancel	Analysis	Duedate
185778-001		WT032406	Water	Cancel	1664T, ICP, Hg	4/5
					Cyanide, Diss Sulfide	
					pH, Phenol/Wet	

Steven Stanley

From: "Joshua Graber" <jdgraber@treadwellrollo.com>
To: "Steve Stanley" <steve@ctberk.com>
Cc: "Carole Nuttall" <cnuttall@treadwellrollo.com>; "Gil Shenker" <gshenker@treadwellrollo.com>; "Greg Johnson" <gejohnson@treadwellrollo.com>; <bjones@blainetech.com>; <dataval@msn.com>
Sent: Friday, March 24, 2006 1:27 PM
Subject: RE: 2893.04.51 - C&T Login Summary (185778)

Hey Steve,

Please cancel all the analyses associated with WT032406. We will re-sample next week.

Thanks.

Joshua D. Graber
Senior Project Manager / Scientist
Treadwell & Rollo, Inc.

****
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****

From: Steve Stanley [mailto:steve@ctberk.com]
Sent: Friday, March 24, 2006 1:00 PM
To: Joshua Graber
Cc: Carole Nuttall; Gil Shenker; Greg Johnson; bjones@blainetech.com; dataval@msn.com
Subject: 2893.04.51 - C&T Login Summary (185778)

C&T Login Summary for 185778

Project:

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 185778 Date Received: 3/24/06 Number of Coolers: 1
Client: Geomatrix Project: Presidio

A. Preliminary Examination Phase
Date Opened: 3/24/06 By (print): S. Stanley (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? 1 - Front Seal date: 3/24/06 Seal name: Unreadable
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: Wet Temperature: 4.6

B. Login Phase
Date Logged In: _____ By (print): _____ (sign) _____

1. Describe type of packing in cooler: Bagged in loose ice
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES ~~NO~~
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:
- Noted Sediment in sample WT032406. 8 bottles received instead of listed 9. Extra unpreserved 1L Polys received, not needed.

POLYAROMATIC HYDROCARBONS

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185778	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	1260GW101	Batch#:	111829
Lab ID:	185778-002	Sampled:	03/24/06
Matrix:	Water	Received:	03/24/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000	Analyzed:	03/30/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.95	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.95	
Fluorene	ND	0.95	
Phenanthrene	ND	0.48	
Anthracene	ND	0.48	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	80	65-135
1-Methylnaphthalene (F)	76	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185778	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	1260GW103	Batch#:	111829
Lab ID:	185778-003	Sampled:	03/24/06
Matrix:	Water	Received:	03/24/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000	Analyzed:	03/30/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.95	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.95	
Fluorene	ND	0.95	
Phenanthrene	ND	0.48	
Anthracene	ND	0.48	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	90	65-135
1-Methylnaphthalene (F)	85	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	185778	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	1221GW104	Batch#:	111829
Lab ID:	185778-004	Sampled:	03/24/06
Matrix:	Water	Received:	03/24/06
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000	Analyzed:	03/30/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.008
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	88	65-135
1-Methylnaphthalene (F)	83	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185778	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC333613	Batch#:	111829
Matrix:	Water	Prepared:	03/29/06
Units:	ug/L	Analyzed:	03/30/06

Analyte	Result	RL	MDL
Naphthalene	ND	1.0	
Acenaphthylene	ND	2.0	
Acenaphthene	ND	1.0	
Fluorene	ND	1.0	
Phenanthrene	ND	0.50	
Anthracene	ND	0.50	0.008
Fluoranthene	ND	0.40	0.02
Pyrene	ND	0.20	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	89	65-135
1-Methylnaphthalene (F)	85	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	185778	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Matrix:	Water	Batch#:	111829
Units:	ug/L	Prepared:	03/29/06
Diln Fac:	1.000	Analyzed:	03/30/06

Type: BS Lab ID: QC333614

Analyte	Spiked	Result	%REC	Limits
Naphthalene	10.00	8.855	89	50-135
Fluorene	2.000	1.944	97	65-135
Pyrene	1.000	1.013	101	65-135
Benzo(a)pyrene	1.000	0.9951	100	65-135

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	93	65-135
1-Methylnaphthalene (F)	89	65-135

Type: BSD Lab ID: QC333615

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Naphthalene	10.00	8.329	83	50-135	6	35
Fluorene	2.000	1.826	91	65-135	6	35
Pyrene	1.000	0.9312	93	65-135	8	35
Benzo(a)pyrene	1.000	0.9252	93	65-135	7	35

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	85	65-135
1-Methylnaphthalene (F)	81	65-135

RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Reviewed By: Mar 11/15/05
Calnum: 295454249001 Name: Type: (normal) Date: 11-NOV-2005 13:27 Inj Vol (uL): 10

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	31500006	295454249006		11-NOV-2005 13:27	S1620
2	31500007	295454249007		11-NOV-2005 13:58	S1619
3	31500008	295454249008		11-NOV-2005 14:30	S1618
4	31500009	295454249009		11-NOV-2005 15:02	S1617
5	31500010	295454249010		11-NOV-2005 15:33	S1616
6	31500011	295454249011		11-NOV-2005 16:05	S1615
7	31500012	295454249012		11-NOV-2005 16:36	S1614

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Naphthalene	1	0.0130	0.0130	0.0130	0.0132	0.0131	0.0129	0.0130	LINR	R	-24.7145	77.11807		ug/L	0.0130	1.000	0.99	20	
Acenaphthylene	1	0.0092	0.0091	0.0093	0.0095	0.0094	0.0092	0.0091	LINR	R	-214.441	109.4250		ug/L	0.0093	1.000	0.99	20	
2-Methylnaphthalene	1	0.0111	0.0112	0.0116	0.0117	0.0116	0.0114		LINR	R	-39.3909	87.29779		ug/L	0.0114	1.000	0.99	20	
Acenaphthene	1	0.0049	0.0049	0.0051	0.0052	0.0051	0.0050	0.0050	LINR	R	-85.6094	200.3504		ug/L	0.0050	1.000	0.99	20	
Fluorene	1	0.0623	0.0618	0.0631	0.0639	0.0633	0.0627	0.0629	LINR	R	-2.86348	15.90618		ug/L	0.0629	1.000	0.99	20	
Phenanthrene	1	0.1801	0.1766	0.1803	0.1826	0.1801	0.1784	0.1795	LINR	R	-1.30450	5.578705		ug/L	0.1797	1.000	0.99	20	
Anthracene	1	0.4031	0.4032	0.4080	0.4134	0.4084	0.4043	0.4050	LINR	R	-3.45329	2.471590		ug/L	0.4065	1.000	0.99	20	
Fluoranthene	1	0.0405	0.0401	0.0407	0.0416	0.0411	0.0407	0.0412	LINR	R	4.761168	24.32600		ug/L	0.0408	1.000	0.99	20	
Pyrene	1	0.0324	0.0319	0.0332	0.0334	0.0330	0.0331	0.0336	LINR	R	8.560996	29.78349		ug/L	0.0329	1.000	0.99	20	
Benzo(a)anthracene	1	0.0846	0.0904	0.0906	0.0917	0.0910	0.0903	0.0918	LINR	R	6.163122	10.91202		ug/L	0.0901	1.000	0.99	20	
Chrysene	1	0.1299	0.1298	0.1319	0.1351	0.1332	0.1321	0.1335	LINR	R	2.645243	7.498652		ug/L	0.1322	1.000	0.99	20	
Benzo(b)fluoranthene	1	0.0989	0.1025	0.1054	0.1076	0.1069	0.1059	0.1068	LINR	R	5.371647	9.373286		ug/L	0.1049	1.000	0.99	20	
Benzo(k)fluoranthene	1	0.0806	0.0758	0.0785	0.0804	0.0803	0.0803	0.0814	LINR	R	9.054523	12.29617		ug/L	0.0796	1.000	0.99	20	
Benzo(a)pyrene	1	0.0781	0.0812	0.0842	0.0867	0.0863	0.0861	0.0870	LINR	R	8.120996	11.49137		ug/L	0.0842	1.000	0.99	20	
Dibenz(a,h)anthracene	1	0.0174	0.0209	0.0203	0.0209	0.0211	0.0213	0.0216	LINR	R	28.94182	46.32017		ug/L	0.0205	1.000	0.99	20	
Benzo(g,h,i)perylene	1	0.0332	0.0346	0.0347	0.0354	0.0353	0.0353	0.0357	LINR	R	17.32595	27.99268		ug/L	0.0349	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	1	0.0843	0.0838	0.0916	0.0948	0.0947	0.0946	0.0953	LINR	R	8.706803	10.48603		ug/L	0.0913	1.000	0.99	20	
1-Methylnaphthalene (UV)	1	0.0084	0.0085	0.0086	0.0086	0.0085	0.0084	0.0084	LINR	R	-262.664	119.1280		ug/L	0.0085	1.000	0.99	20	
Acenaphthylene	2	0.0273	0.0273	0.0279	0.0282	0.0280	0.0277	0.0279	LINR	R	7.541521	35.87497		ug/L	0.0277	1.000	0.99	20	

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Curves: LINR: Linear regression
Instrument amount = a0 + response * a1 + response^2 * a2

JM 14 NOV 2005

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Reviewed By:
Calnum: 295454249001 Name: Type: (normal) Date: 11-NOV-2005 13:27 Inj Vol (uL): 10

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
1-Methylnaphthalene (UV)	2	0.0030	0.0030	0.0031	0.0031	0.0031	0.0030	0.0030	LINR	R	-125.293	329.2731		ug/L	0.0031	1.000	0.99	20	
Naphthalene	3	0.0118	0.0118	0.0118	0.0119	0.0119	0.0117	0.0116	LINR	R	-94.6221	86.22976		ug/L	0.0118	1.000	0.99	20	
2-Methylnaphthalene	3	0.0160	0.0159	0.0160	0.0162	0.0161	0.0158		LINR	R	-62.5727	63.28221		ug/L	0.0160	1.000	0.99	20	
Acenaphthene	3	0.0242	0.0241	0.0242	0.0246	0.0244	0.0239		LINR	R	-65.0465	41.81540		ug/L	0.0242	1.000	0.99	20	
Fluorene	3	0.1329	0.1328	0.1337	0.1349	0.1333	0.1303		LINR	R	-17.9197	7.682417		ug/L	0.1330	1.000	0.99	20	
Phenanthrene	3	0.1403	0.1414	0.1416	0.1432	0.1419	0.1386	0.1387	LINR	R	-8.78491	7.223916		ug/L	0.1408	1.000	0.99	20	
Anthracene	3	0.4105	0.4089	0.4142	0.4203	0.4141	0.4106	0.4119	LINR	R	-2.51560	2.430338		ug/L	0.4129	1.000	0.99	20	
Fluoranthene	3	0.0408	0.0402	0.0409	0.0415	0.0411	0.0406	0.0409	LINR	R	-2.68210	24.50380		ug/L	0.0409	1.000	0.99	20	
Pyrene	3	0.1357	0.1319	0.1342	0.1369	0.1342	0.1312	0.1332	LINR	R	-2.17620	7.531433		ug/L	0.1339	1.000	0.99	20	
Benzo(a)anthracene	3	0.1507	0.1492	0.1525	0.1551	0.1526	0.1506	0.1519	LINR	R	-1.35484	6.595830		ug/L	0.1518	1.000	0.99	20	
Chrysene	3	0.1830	0.1826	0.1864	0.1898	0.1872	0.1843	0.1845	LINR	R	-5.30781	5.425541		ug/L	0.1854	1.000	0.99	20	
Benzo(b)fluoranthene	3	0.0661	0.0655	0.0671	0.0681	0.0672	0.0664	0.0670	LINR	R	-0.37376	14.95462		ug/L	0.0668	1.000	0.99	20	
Benzo(k)fluoranthene	3	0.3904	0.3881	0.3960	0.4014	0.3974	0.3923	0.3904	LINR	R	-7.19750	2.562379		ug/L	0.3937	1.000	0.99	20	
Benzo(a)pyrene	3	0.2124	0.2112	0.2162	0.2193	0.2168	0.2137	0.2143	LINR	R	-3.87655	4.671748		ug/L	0.2148	1.000	0.99	20	
Dibenz(a,h)anthracene	3	0.0298	0.0299	0.0311	0.0319	0.0317	0.0316	0.0320	LINR	R	14.71588	31.27559		ug/L	0.0311	1.000	0.99	20	
Benzo(g,h,i)perylene	3	0.0617	0.0613	0.0626	0.0641	0.0636	0.0633	0.0639	LINR	R	8.495423	15.66461		ug/L	0.0629	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	3	0.0928	0.0930	0.0946	0.0968	0.0967	0.0963	0.0973	LINR	R	6.160114	10.28519		ug/L	0.0953	1.000	0.99	20	
1-Methylnaphthalene (F)	3	0.0132	0.0131	0.0132	0.0133	0.0132	0.0128		LINR	R	-457.427	78.41043		ug/L	0.0131	1.000	0.99	20	

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Curves: LINR: Linear regression

Instrument amount = a0 + response * a1 + response^2 * a2

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Calibration Table

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NEW ICAL. 14 NOV 2005

HPLC04 METHOD 8310

Calib. Data Modified : 11/14/2005 4:07:02 PM

Calculate : External Standard
Based on : Peak Area

mas 11/15/05

Rel. Reference Window : 1.000 %
Abs. Reference Window : 0.200 min
Rel. Non-ref. Window : 1.000 %
Abs. Non-ref. Window : 0.250 min
Do not use Multiplier & Dilution Factor with ISTDs
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Signal 1: DAD1 A, Sig=254,4 Ref=480,80
Signal 2: DAD1 B, Sig=305,4 Ref=480,80
Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Lvl Sig		Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
4.798	1	1	500.00000	6.51225	76.77836			Naphthalene
		2	1000.00000	13.02439	76.77905			
		3	2500.00000	32.45070	77.03995			
		4	5000.00000	65.81794	75.96713			
		5	1.00000e4	130.82538	76.43777			
		6	2.50000e4	323.61371	77.25260			
		7	5.00000e4	648.90906	77.05240			
4.839	3	1	500.00000	5.89779	84.77755			Naphthalene
		2	1000.00000	11.75017	85.10517			
		3	2500.00000	29.52386	84.67727			
		4	5000.00000	59.72798	83.71286			
		5	1.00000e4	118.70710	84.24096			
		6	2.50000e4	292.13416	85.57712			
		7	5.00000e4	580.05115	86.19930			
6.052	1	1	1000.00000	9.19383	108.76859			Acenaphthylene
		2	2000.00000	18.17297	110.05354			
		3	5000.00000	46.41474	107.72440			
		4	1.00000e4	94.72365	105.57026			
		5	2.00000e4	187.69478	106.55597			
		6	5.00000e4	461.84637	108.26111			
		7	1.00000e5	913.74396	109.43985			
6.053	2	1	1000.00000	27.33126	36.58814			Acenaphthylene
		2	2000.00000	54.50918	36.69107			
		3	5000.00000	139.26938	35.90165			

RetTime [min]	Lvl Sig		Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		4	1.00000e4	281.69171	35.49980			
		5	2.00000e4	559.80969	35.72643			
		6	5.00000e4	1386.26819	36.06806			
		7	1.00000e5	2790.07104	35.84138			
6.831	1	1	2000.00000	16.88634	118.43892			1-Methylnaphthalene (UV)
		2	4000.00000	33.87627	118.07677			
		3	1.00000e4	85.59682	116.82676			
		4	2.00000e4	172.90190	115.67253			
		5	4.00000e4	341.59979	117.09609			
		6	1.00000e5	839.73962	119.08453			
		7	2.00000e5	1681.10107	118.96965			
6.832	2	1	2000.00000	6.07634	329.14529			1-Methylnaphthalene (UV)
		2	4000.00000	12.02570	332.62101			
		3	1.00000e4	30.92526	323.36029			
		4	2.00000e4	62.05173	322.31170			
		5	4.00000e4	122.53880	326.42721			
		6	1.00000e5	302.71973	330.33856			
		7	2.00000e5	608.23541	328.82005			
6.872	3	1	2000.00000	26.32489	75.97373			1-Methylnaphthalene (F)
		2	4000.00000	52.31355	76.46202			
		3	1.00000e4	131.50134	76.04485			
		4	2.00000e4	266.55655	75.03098			
		5	4.00000e4	526.67639	75.94796			
		6	1.00000e5	1276.22900	78.35584			
7.280	1	1	500.00000	5.56723	89.81128			2-Methylnaphthalene
		2	1000.00000	11.21599	89.15845			
		3	2500.00000	28.88600	86.54713			
		4	5000.00000	58.62328	85.29035			
		5	1.00000e4	116.21339	86.04861			
		6	2.50000e4	286.22339	87.34436			
7.335	3	1	500.00000	7.99274	62.55677			2-Methylnaphthalene
		2	1000.00000	15.91236	62.84423			
		3	2500.00000	40.03383	62.44718			
		4	5000.00000	81.15388	61.61135			
		5	1.00000e4	161.03452	62.09849			
		6	2.50000e4	395.10352	63.27456			
7.672	1	1	500.00000	2.42577	206.12028			Acenaphthene
		2	1000.00000	4.86201	205.67637			
		3	2500.00000	12.71169	196.66929			
		4	5000.00000	25.83322	193.54924			
		5	1.00000e4	51.07816	195.77838			
		6	2.50000e4	125.66128	198.94752			
		7	5.00000e4	249.59686	200.32303			
7.712	3	1	500.00000	12.09695	41.33272			Acenaphthene
		2	1000.00000	24.11610	41.46607			
		3	2500.00000	60.52220	41.30716			
		4	5000.00000	122.93717	40.67118			
		5	1.00000e4	243.99982	40.98364			
		6	2.50000e4	597.90503	41.81266			
8.199	1	1	100.00000	6.23287	16.04397			Fluorene
		2	200.00000	12.36933	16.16903			
		3	500.00000	31.54358	15.85108			
		4	1000.00000	63.90393	15.64849			
		5	2000.00000	126.50168	15.81007			
		6	5000.00000	313.40030	15.95404			
		7	1.00000e4	629.23938	15.89220			
8.239	3	1	100.00000	13.29075	7.52403			Fluorene
		2	200.00000	26.56478	7.52876			
		3	500.00000	66.85545	7.47882			
		4	1000.00000	134.87556	7.41424			
		5	2000.00000	266.58530	7.50229			
		6	5000.00000	651.29639	7.67700			
9.318	1	1	50.00000	9.00343	5.55344			Phenanthrene

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	100.00000	17.66359	5.66136			
		3	250.00000	45.08168	5.54549			
		4	500.00000	91.29965	5.47647			
		5	1000.00000	180.14212	5.55117			
		6	2500.00000	446.01529	5.60519			
		7	5000.00000	897.40991	5.57159			
9.358	3	1	50.00000	7.01743	7.12511			Phenanthrene
		2	100.00000	14.14166	7.07130			
		3	250.00000	35.38944	7.06425			
		4	500.00000	71.59289	6.98393			
		5	1000.00000	141.86461	7.04897			
		6	2500.00000	346.48584	7.21530			
		7	5000.00000	693.25409	7.21236			
10.346	1	1	50.00000	20.15521	2.48075			Anthracene
		2	100.00000	40.32065	2.48012			
		3	250.00000	101.99684	2.45106			
		4	500.00000	206.70654	2.41889			
		5	1000.00000	408.35837	2.44883			
		6	2500.00000	1010.66217	2.47363			
		7	5000.00000	2024.80078	2.46938			
10.386	3	1	50.00000	20.52480	2.43608			Anthracene
		2	100.00000	40.89180	2.44548			
		3	250.00000	103.54391	2.41443			
		4	500.00000	210.14381	2.37932			
		5	1000.00000	414.05106	2.41516			
		6	2500.00000	1026.49353	2.43548			
		7	5000.00000	2059.37134	2.42793			
11.504	1	1	100.00000	4.05160	24.68162			Fluoranthene
		2	200.00000	8.01856	24.94213			
		3	500.00000	20.35011	24.56989			
		4	1000.00000	41.57235	24.05445			
		5	2000.00000	82.13621	24.34980			
		6	5000.00000	203.73349	24.54187			
		7	1.00000e4	411.60339	24.29523			
11.543	3	1	100.00000	4.08160	24.50019			Fluoranthene
		2	200.00000	8.04222	24.86875			
		3	500.00000	20.46036	24.43750			
		4	1000.00000	41.54289	24.07151			
		5	2000.00000	82.12543	24.35299			
		6	5000.00000	203.17122	24.60978			
		7	1.00000e4	408.57028	24.47559			
12.274	1	1	50.00000	1.62059	30.85291			Pyrene
		2	100.00000	3.19098	31.33834			
		3	250.00000	8.29422	30.14147			
		4	500.00000	16.68730	29.96290			
		5	1000.00000	32.97289	30.32795			
		6	2500.00000	82.77225	30.20336			
		7	5000.00000	168.06082	29.75113			
12.313	3	1	50.00000	6.78313	7.37123			Pyrene
		2	100.00000	13.19262	7.58000			
		3	250.00000	33.54156	7.45344			
		4	500.00000	68.45862	7.30368			
		5	1000.00000	134.23868	7.44942			
		6	2500.00000	328.05682	7.62063			
		7	5000.00000	665.85370	7.50916			
15.125	1	1	50.00000	4.23180	11.81530			Benzo(a)anthracene
		2	100.00000	9.04188	11.05964			
		3	250.00000	22.65013	11.03746			
		4	500.00000	45.84408	10.90653			
		5	1000.00000	91.03773	10.98446			
		6	2500.00000	225.67519	11.07787			
		7	5000.00000	459.00107	10.89322			
15.164	3	1	50.00000	7.53349	6.63703			Benzo(a)anthracene

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	100.00000	14.92142	6.70177			
		3	250.00000	38.11910	6.55839			
		4	500.00000	77.56648	6.44608			
		5	1000.00000	152.59743	6.55319			
		6	2500.00000	376.53439	6.63950			
		7	5000.00000	759.30841	6.58494			
15.624	1	1	50.00000	6.49550	7.69764			Chrysene
		2	100.00000	12.97757	7.70560			
		3	250.00000	32.97633	7.58119			
		4	500.00000	67.56745	7.40001			
		5	1000.00000	133.20935	7.50698			
		6	2500.00000	330.15082	7.57230			
		7	5000.00000	667.71228	7.48826			
15.664	3	1	50.00000	9.15220	5.46317			Chrysene
		2	100.00000	18.25678	5.47742			
		3	250.00000	46.59403	5.36549			
		4	500.00000	94.90897	5.26821			
		5	1000.00000	187.15659	5.34312			
		6	2500.00000	460.78613	5.42551			
		7	5000.00000	922.53937	5.41982			
17.842	1	1	100.00000	9.89154	10.10965			Benzo(b)fluoranthene
		2	200.00000	20.49215	9.75983			
		3	500.00000	52.71000	9.48587			
		4	1000.00000	107.62183	9.29180			
		5	2000.00000	213.82385	9.35349			
		6	5000.00000	529.55377	9.44191			
		7	1.00000e4	1067.59534	9.36684			
17.883	3	1	100.00000	6.61389	15.11970			Benzo(b)fluoranthene
		2	200.00000	13.10739	15.25857			
		3	500.00000	33.56808	14.89510			
		4	1000.00000	68.05548	14.69389			
		5	2000.00000	134.33257	14.88842			
		6	5000.00000	331.92670	15.06357			
		7	1.00000e4	669.70776	14.93189			
18.796	1	1	50.00000	4.03241	12.39953			Benzo(k)fluoranthene
		2	100.00000	7.57503	13.20127			
		3	250.00000	19.62153	12.74110			
		4	500.00000	40.20050	12.43765			
		5	1000.00000	80.29658	12.45383			
		6	2500.00000	200.76387	12.45244			
		7	5000.00000	406.82126	12.29041			
18.837	3	1	50.00000	19.52037	2.56143			Benzo(k)fluoranthene
		2	100.00000	38.80871	2.57674			
		3	250.00000	99.01035	2.52499			
		4	500.00000	200.72287	2.49100			
		5	1000.00000	397.35812	2.51662			
		6	2500.00000	980.66785	2.54928			
		7	5000.00000	1952.04028	2.56142			
19.734	1	1	50.00000	3.90437	12.80616			Benzo(a)pyrene
		2	100.00000	8.12252	12.31145			
		3	250.00000	21.05889	11.87147			
		4	500.00000	43.33799	11.53722			
		5	1000.00000	86.29072	11.58873			
		6	2500.00000	215.14328	11.62016			
		7	5000.00000	435.20081	11.48895			
19.774	3	1	50.00000	10.62241	4.70703			Benzo(a)pyrene
		2	100.00000	21.12371	4.73402			
		3	250.00000	54.04917	4.62542			
		4	500.00000	109.65622	4.55970			
		5	1000.00000	216.76112	4.61337			
		6	2500.00000	534.25336	4.67943			
		7	5000.00000	1071.43713	4.66663			
21.335	1	1	100.00000	1.74457	57.32080			Dibenz(a,h)anthracene

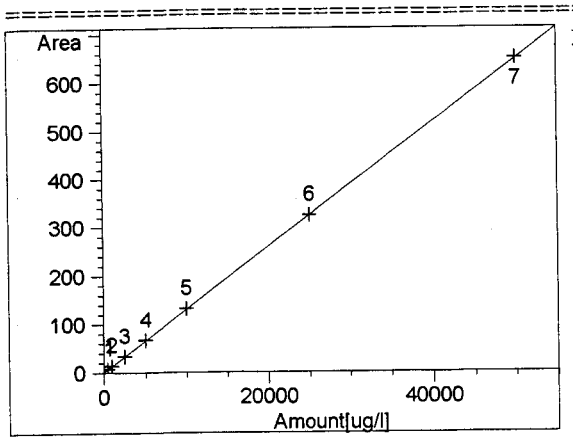
Method G:\HPLC4\METHODS\8310-315.M

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		2	200.00000	4.18672	47.77004			
		3	500.00000	10.15091	49.25669			
		4	1000.00000	20.86957	47.91665			
		5	2000.00000	42.28377	47.29947			
		6	5000.00000	106.57118	46.91700			
		7	1.00000e4	215.69028	46.36278			
21.376	3	1	100.00000	2.98045	33.55199			Dibenz(a,h)anthracene
		2	200.00000	5.97678	33.46283			
		3	500.00000	15.56407	32.12527			
		4	1000.00000	31.90387	31.34416			
		5	2000.00000	63.43048	31.53058			
		6	5000.00000	158.05646	31.63427			
		7	1.00000e4	319.90201	31.25957			
22.099	1	1	100.00000	3.32142	30.10762			Benzo(g,h,i)perylene
		2	200.00000	6.91262	28.93260			
		3	500.00000	17.35672	28.80728			
		4	1000.00000	35.38666	28.25924			
		5	2000.00000	70.51058	28.36454			
		6	5000.00000	176.29678	28.36127			
		7	1.00000e4	357.48672	27.97307			
22.140	3	1	100.00000	6.17302	16.19953			Benzo(g,h,i)perylene
		2	200.00000	12.25580	16.31880			
		3	500.00000	31.30061	15.97413			
		4	1000.00000	64.07645	15.60636			
		5	2000.00000	127.25459	15.71653			
		6	5000.00000	316.47900	15.79884			
		7	1.00000e4	638.82190	15.65382			
22.620	1	1	50.00000	4.21460	11.86352			Indeno(1,2,3-cd)pyrene
		2	100.00000	8.38093	11.93185			
		3	250.00000	22.88771	10.92289			
		4	500.00000	47.41936	10.54422			
		5	1000.00000	94.73141	10.55616			
		6	2500.00000	236.57013	10.56769			
		7	5000.00000	476.41440	10.49506			
22.661	3	1	50.00000	4.64120	10.77307			Indeno(1,2,3-cd)pyrene
		2	100.00000	9.29544	10.75796			
		3	250.00000	23.65410	10.56899			
		4	500.00000	48.39191	10.33231			
		5	1000.00000	96.65224	10.34637			
		6	2500.00000	240.76752	10.38346			
		7	5000.00000	486.34088	10.28085			

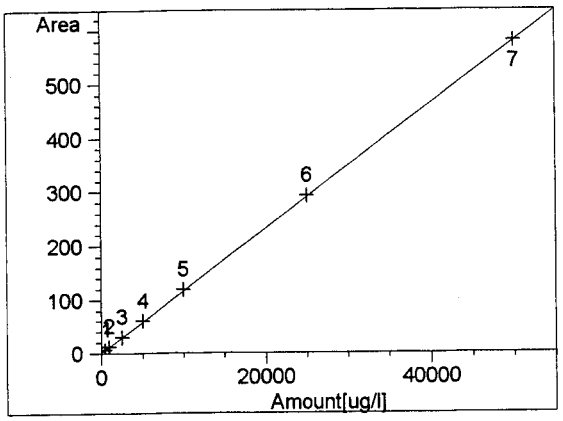
Peak Sum Table

No Entries in table

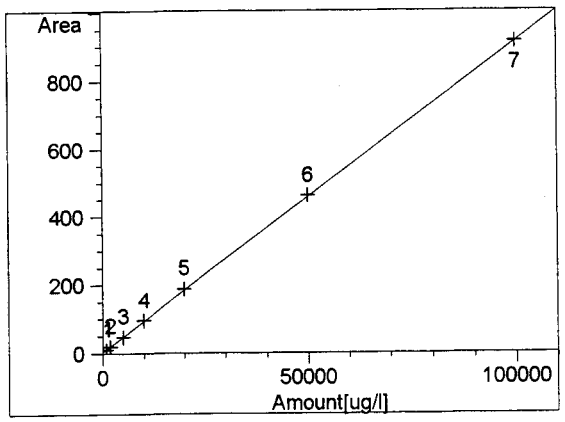
Calibration Curves



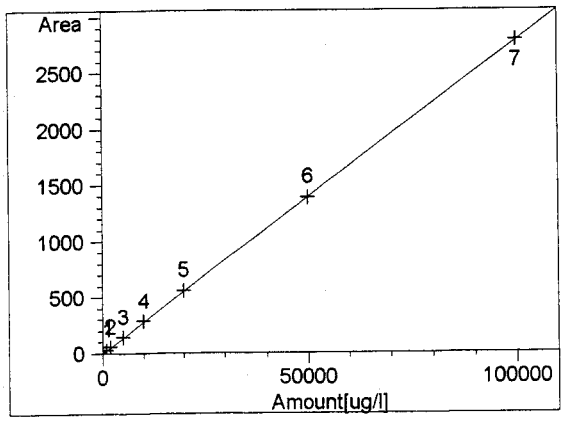
Naphthalene at exp. RT: 4.798
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.66440
Formula: y = mx + b
m: 1.29671e-2
b: 3.20474e-1
x: Amount[ug/l]
y: Area



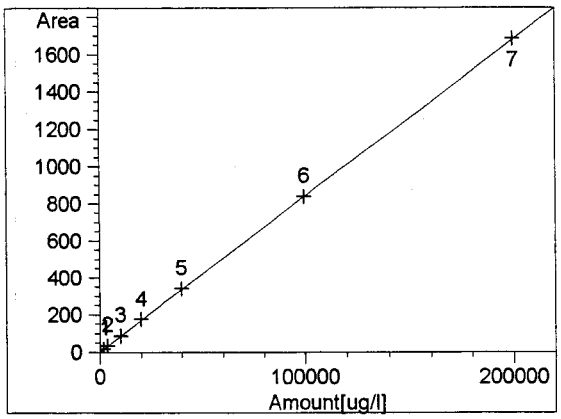
Naphthalene at exp. RT: 4.839
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.21267
Formula: y = mx + b
m: 1.15969e-2
b: 1.09732
x: Amount[ug/l]
y: Area



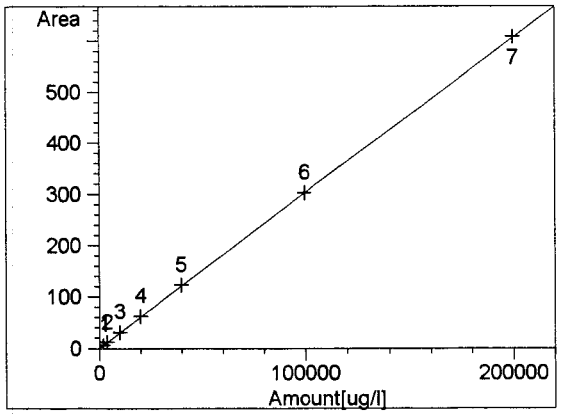
Acenaphthylene at exp. RT: 6.052
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 2.57482
Formula: y = mx + b
m: 9.13868e-3
b: 1.95971
x: Amount[ug/l]
y: Area



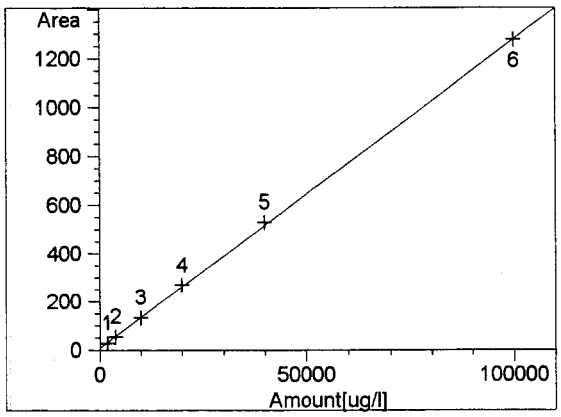
Acenaphthylene at exp. RT: 6.053
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 3.95166
Formula: y = mx + b
m: 2.78746e-2
b: -2.10217e-1
x: Amount[ug/l]
y: Area



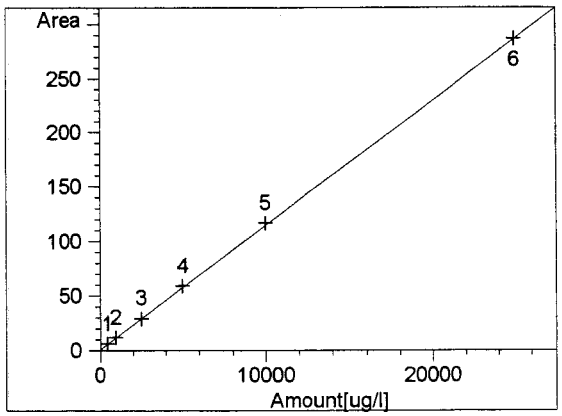
1-Methylnaphthalene (UV) at exp. RT: 6.831
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 2.56891
Formula: y = mx + b
m: 8.39433e-3
b: 2.20489
x: Amount[ug/l]
y: Area



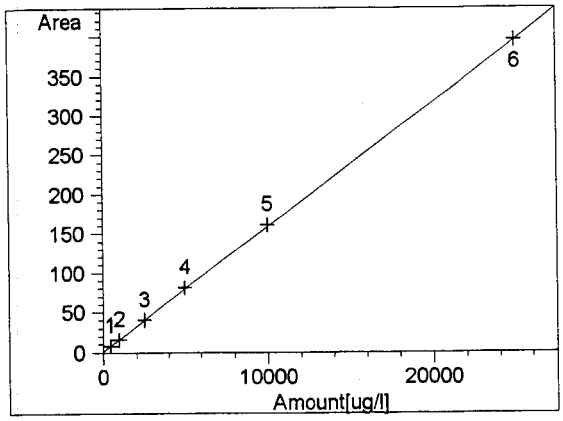
1-Methylnaphthalene (UV) at exp. RT: 6.832
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.87319
Formula: y = mx + b
m: 3.03699e-3
b: 3.80514e-1
x: Amount[ug/l]
y: Area



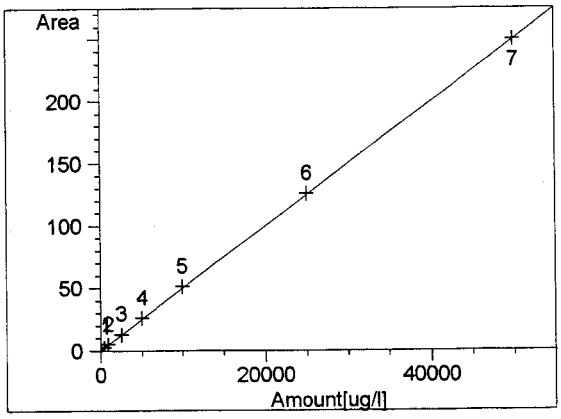
1-Methylnaphthalene (F) at exp. RT: 6.872
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99990
Residual Std. Dev.: 7.42050
Formula: y = mx + b
m: 1.27534e-2
b: 5.83375
x: Amount[ug/l]
y: Area



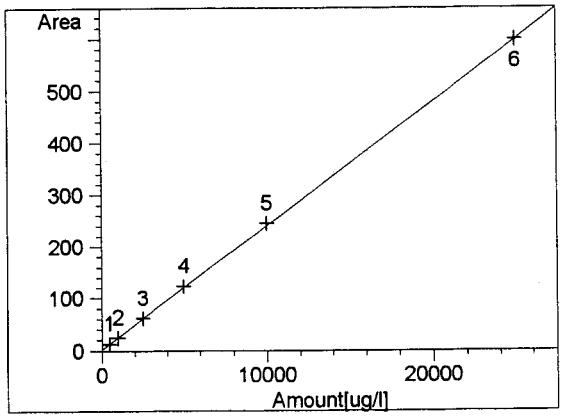
2-Methylnaphthalene at exp. RT: 7.280
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 0.93927
Formula: y = mx + b
m: 1.14550e-2
b: 4.51222e-1
x: Amount[ug/l]
y: Area



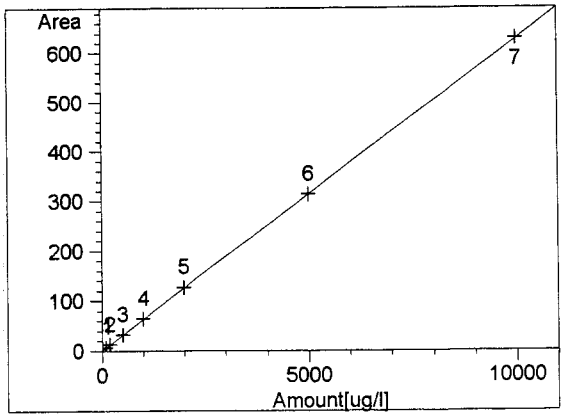
2-Methylnaphthalene at exp. RT: 7.335
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 1.42306
Formula: y = mx + b
m: 1.58022e-2
b: 9.88789e-1
x: Amount[ug/l]
y: Area



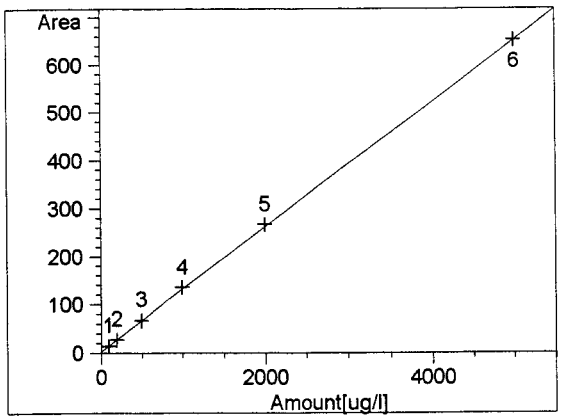
Acenaphthene at exp. RT: 7.672
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.58330
Formula: y = mx + b
m: 4.99125e-3
b: 4.27298e-1
x: Amount[ug/l]
y: Area



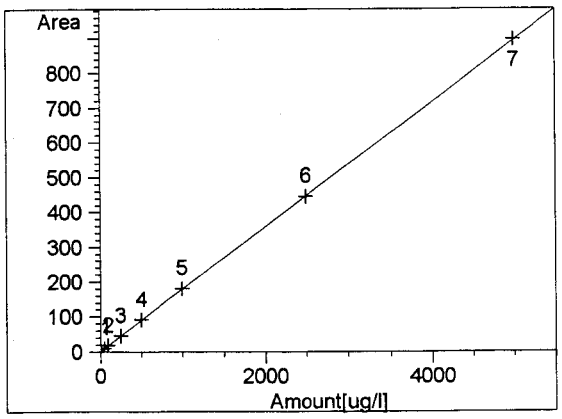
Acenaphthene at exp. RT: 7.712
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 2.28893
Formula: y = mx + b
m: 2.39146e-2
b: 1.55557
x: Amount[ug/l]
y: Area



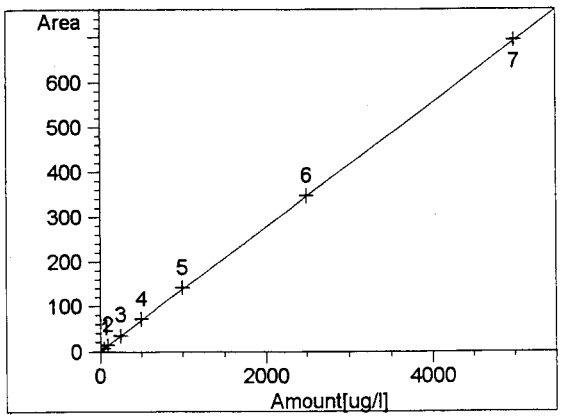
Fluorene at exp. RT: 8.199
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.73220
Formula: y = mx + b
m: 6.28687e-2
b: 1.80023e-1
x: Amount[ug/l]
y: Area



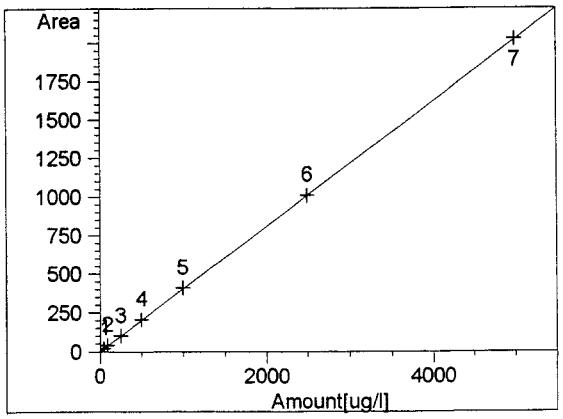
Fluorene at exp. RT: 8.239
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99995
Residual Std. Dev.: 2.84162
Formula: y = mx + b
m: 1.30167e-1
b: 2.33256
x: Amount[ug/l]
y: Area



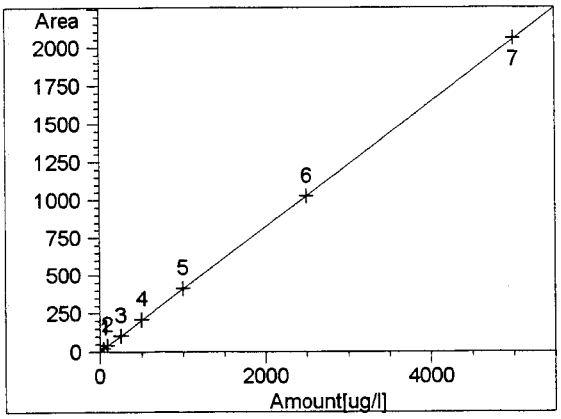
Phenanthrene at exp. RT: 9.318
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 1.35222
Formula: y = mx + b
m: 1.79253e-1
b: 2.33836e-1
x: Amount[ug/l]
y: Area



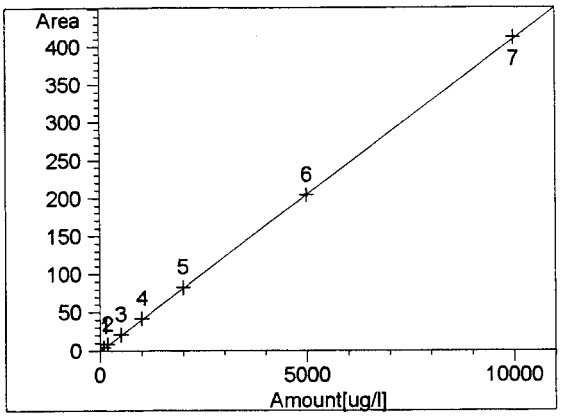
Phenanthrene at exp. RT: 9.358
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.35775
Formula: y = mx + b
m: 1.38429e-1
b: 1.21609
x: Amount[ug/l]
y: Area



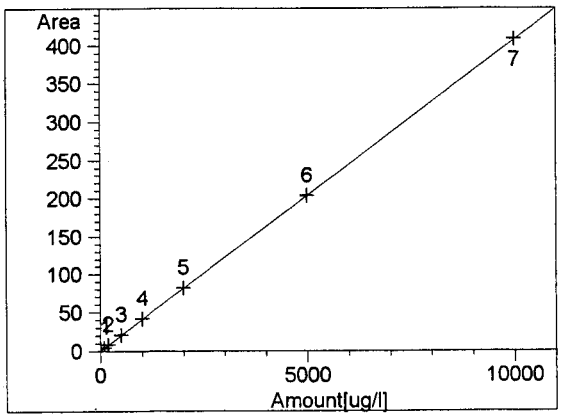
Anthracene at exp. RT: 10.346
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 2.21901
Formula: y = mx + b
m: 4.04598e-1
b: 1.39720
x: Amount[ug/l]
y: Area



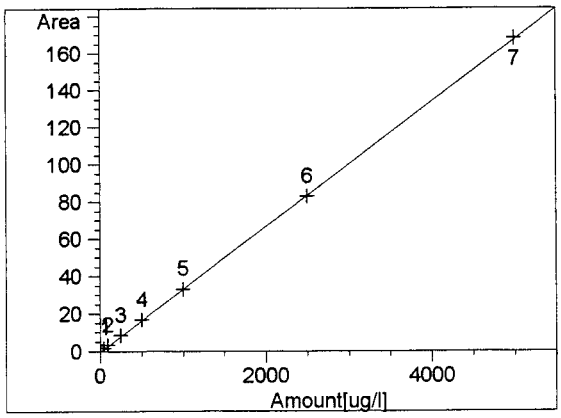
Anthracene at exp. RT: 10.386
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 2.36890
Formula: y = mx + b
m: 4.11465e-1
b: 1.03508
x: Amount[ug/l]
y: Area



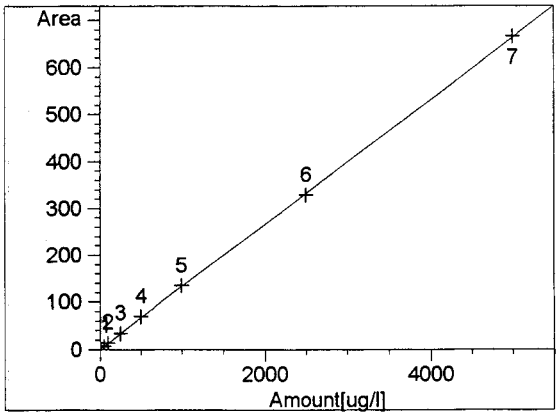
Fluoranthene at exp. RT: 11.504
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.84613
Formula: y = mx + b
m: 4.11083e-2
b: -1.95725e-1
x: Amount[ug/l]
y: Area



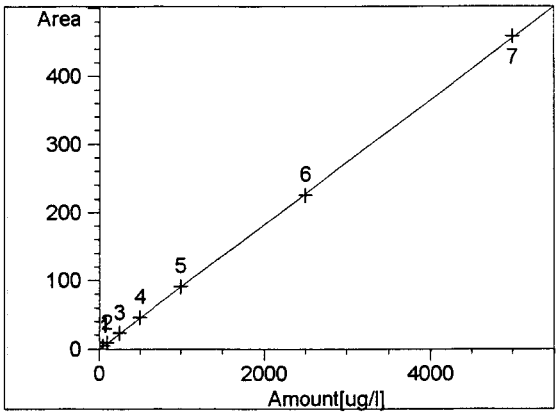
Fluoranthene at exp. RT: 11.543
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.58645
Formula: y = mx + b
m: 4.08100e-2
b: 1.09457e-1
x: Amount[ug/l]
y: Area



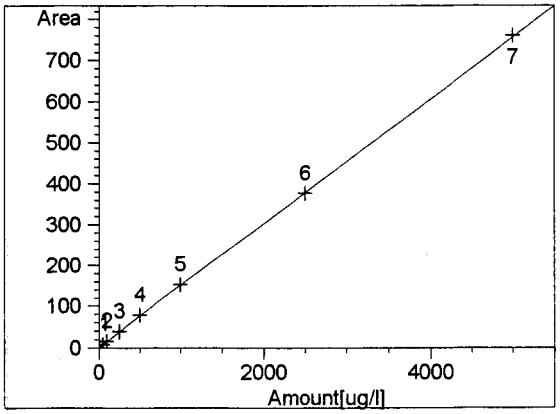
Pyrene at exp. RT: 12.274
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 0.49621
Formula: y = mx + b
m: 3.35757e-2
b: -2.87441e-1
x: Amount[ug/l]
y: Area



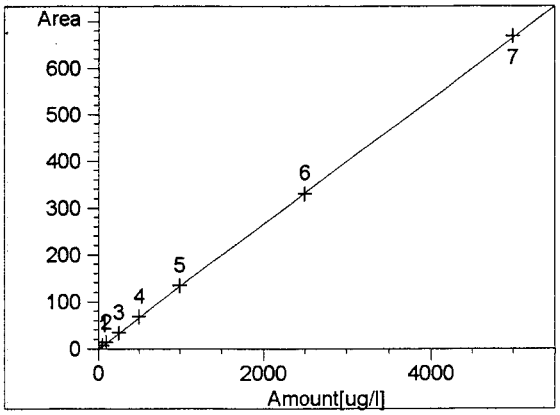
Pyrene at exp. RT: 12.313
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 2.23433
Formula: y = mx + b
m: 1.32777e-1
b: 2.88948e-1
x: Amount[ug/l]
y: Area



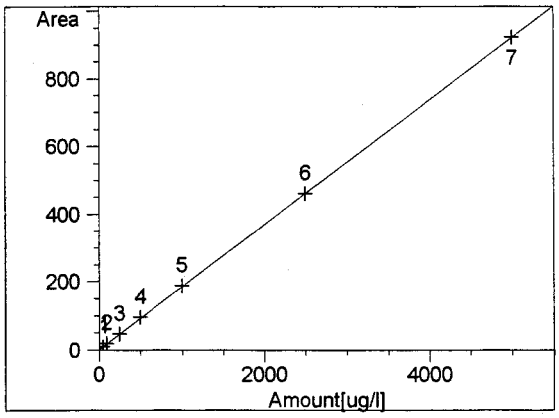
Benzo(a)anthracene at exp. RT: 15.125
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 1.46481
Formula: y = mx + b
m: 9.16421e-2
b: -5.64799e-1
x: Amount[ug/l]
y: Area



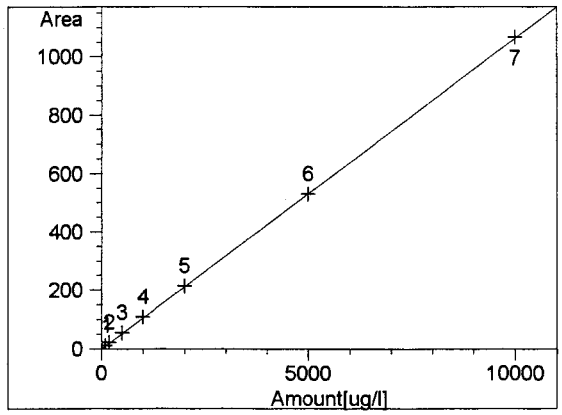
Benzo(a)anthracene at exp. RT: 15.164
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.52788
Formula: y = mx + b
m: 1.51611e-1
b: 2.05410e-1
x: Amount[ug/l]
y: Area



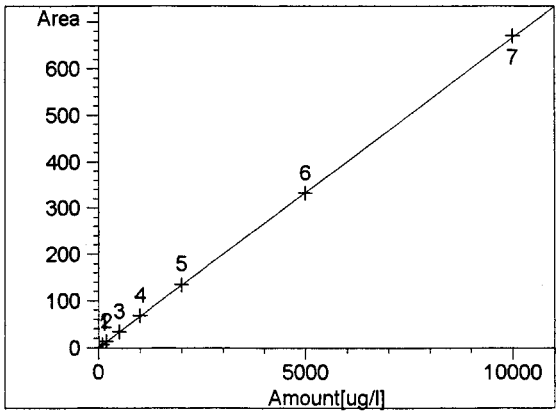
Chrysene at exp. RT: 15.624
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 1.52322
Formula: y = mx + b
m: 1.33357e-1
b: -3.52762e-1
x: Amount[ug/l]
y: Area



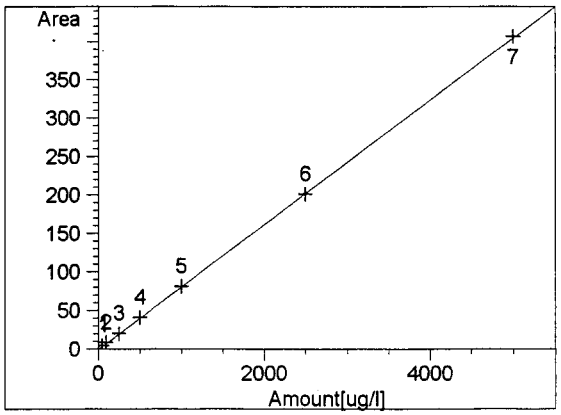
Chrysene at exp. RT: 15.664
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.42864
Formula: y = mx + b
m: 1.84313e-1
b: 9.78301e-1
x: Amount[ug/l]
y: Area



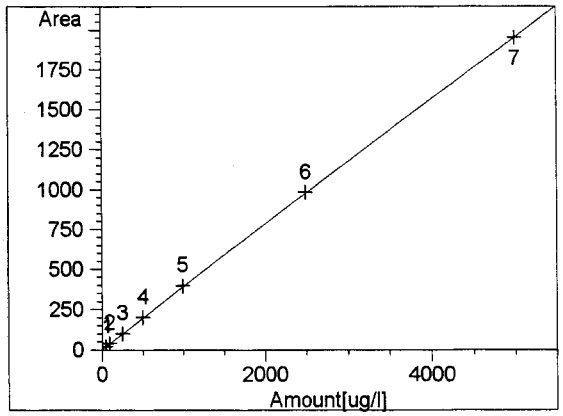
Benzo(b)fluoranthene at exp. RT: 17.842
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 1.79272
Formula: y = mx + b
m: 1.06686e-1
b: -5.73080e-1
x: Amount[ug/l]
y: Area



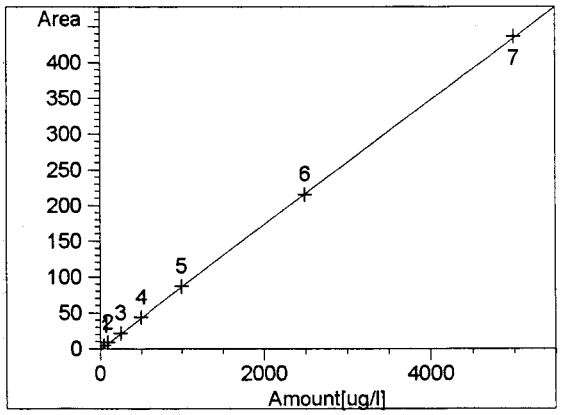
Benzo(b)fluoranthene at exp. RT: 17.883
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.32175
Formula: y = mx + b
m: 6.68690e-2
b: 2.49898e-2
x: Amount[ug/l]
y: Area



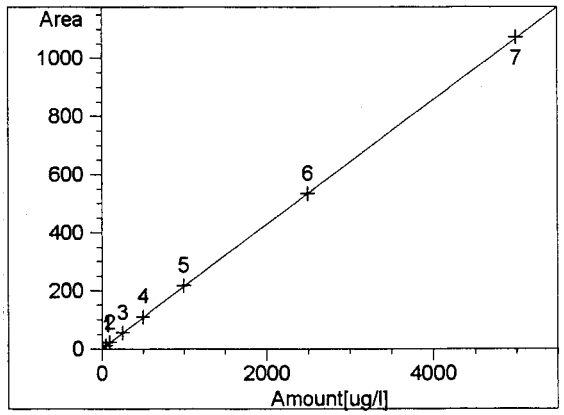
Benzo(k)fluoranthene at exp. RT: 18.796
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.98396
Formula: y = mx + b
m: 8.13261e-2
b: -7.36369e-1
x: Amount[ug/l]
y: Area



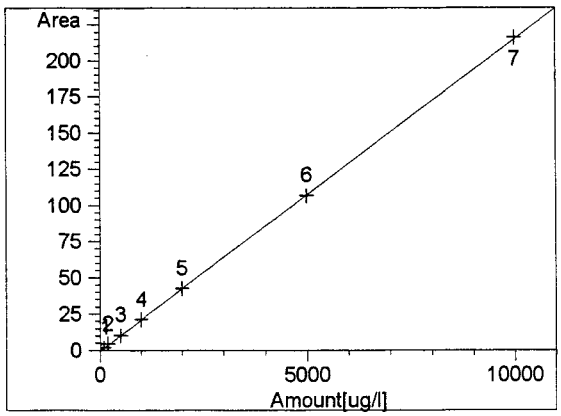
Benzo(k)fluoranthene at exp. RT: 18.837
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 3.29157
Formula: y = mx + b
m: 3.90262e-1
b: 2.80891
x: Amount[ug/l]
y: Area



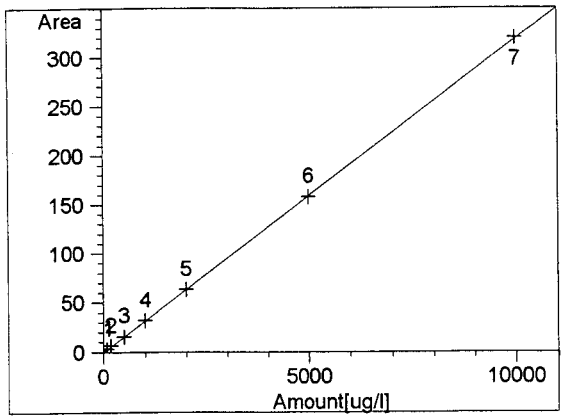
Benzo(a)pyrene at exp. RT: 19.734
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.88457
Formula: y = mx + b
m: 8.70219e-2
b: -7.06704e-1
x: Amount[ug/l]
y: Area



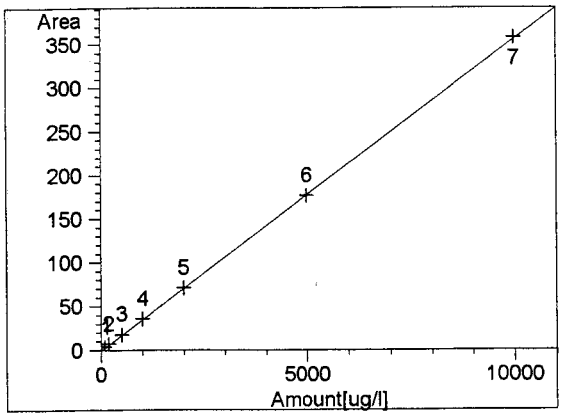
Benzo(a)pyrene at exp. RT: 19.774
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.54630
Formula: y = mx + b
m: 2.14053e-1
b: 8.29784e-1
x: Amount[ug/l]
y: Area



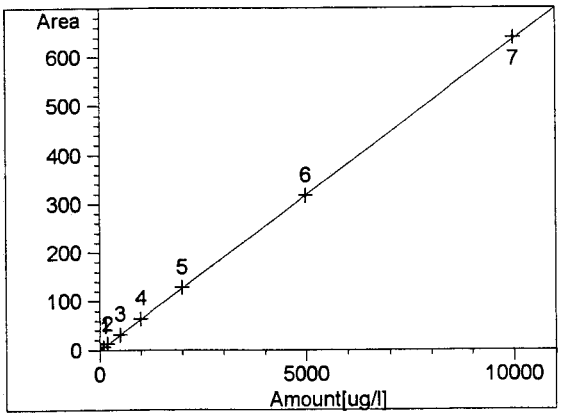
Dibenz(a,h)anthracene at exp. RT: 21.335
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.47152
Formula: y = mx + b
m: 2.15889e-2
b: -6.24820e-1
x: Amount[ug/l]
y: Area



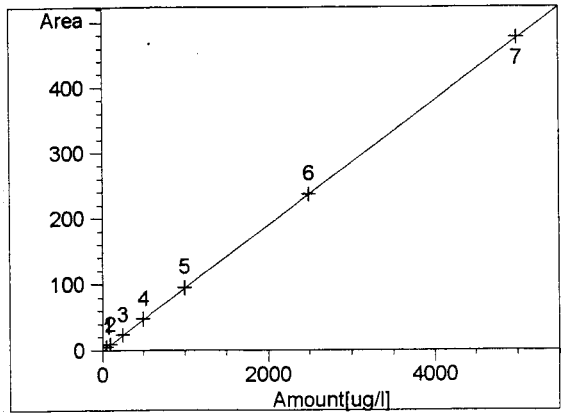
Dibenz(a,h)anthracene at exp. RT: 21.376
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.69795
Formula: y = mx + b
m: 3.19738e-2
b: -4.70523e-1
x: Amount[ug/l]
y: Area



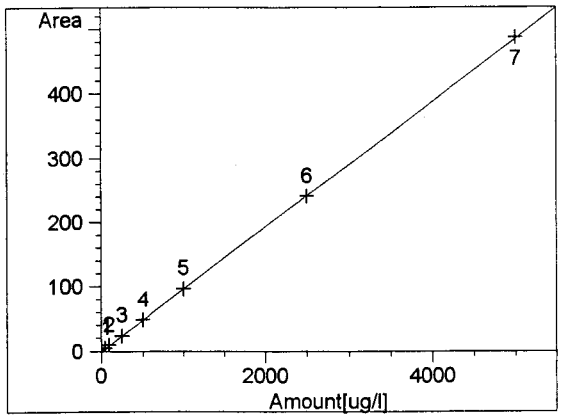
Benzo(g,h,i)perylene at exp. RT: 22.099
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.90912
Formula: y = mx + b
m: 3.57236e-2
b: -6.18946e-1
x: Amount[ug/l]
y: Area



Benzo(g,h,i)perylene at exp. RT: 22.140
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.13249
Formula: y = mx + b
m: 6.38382e-2
b: -5.42335e-1
x: Amount[ug/l]
y: Area



Indeno(1,2,3-cd)pyrene at exp. RT: 22.620
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.59301
Formula: y = mx + b
m: 9.53650e-2
b: -8.30323e-1
x: Amount[ug/l]
y: Area



Indeno(1,2,3-cd)pyrene at exp. RT: 22.661
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 0.87865
Formula: y = mx + b
m: 9.72272e-2
b: -5.98930e-1
x: Amount[ug/l]
y: Area

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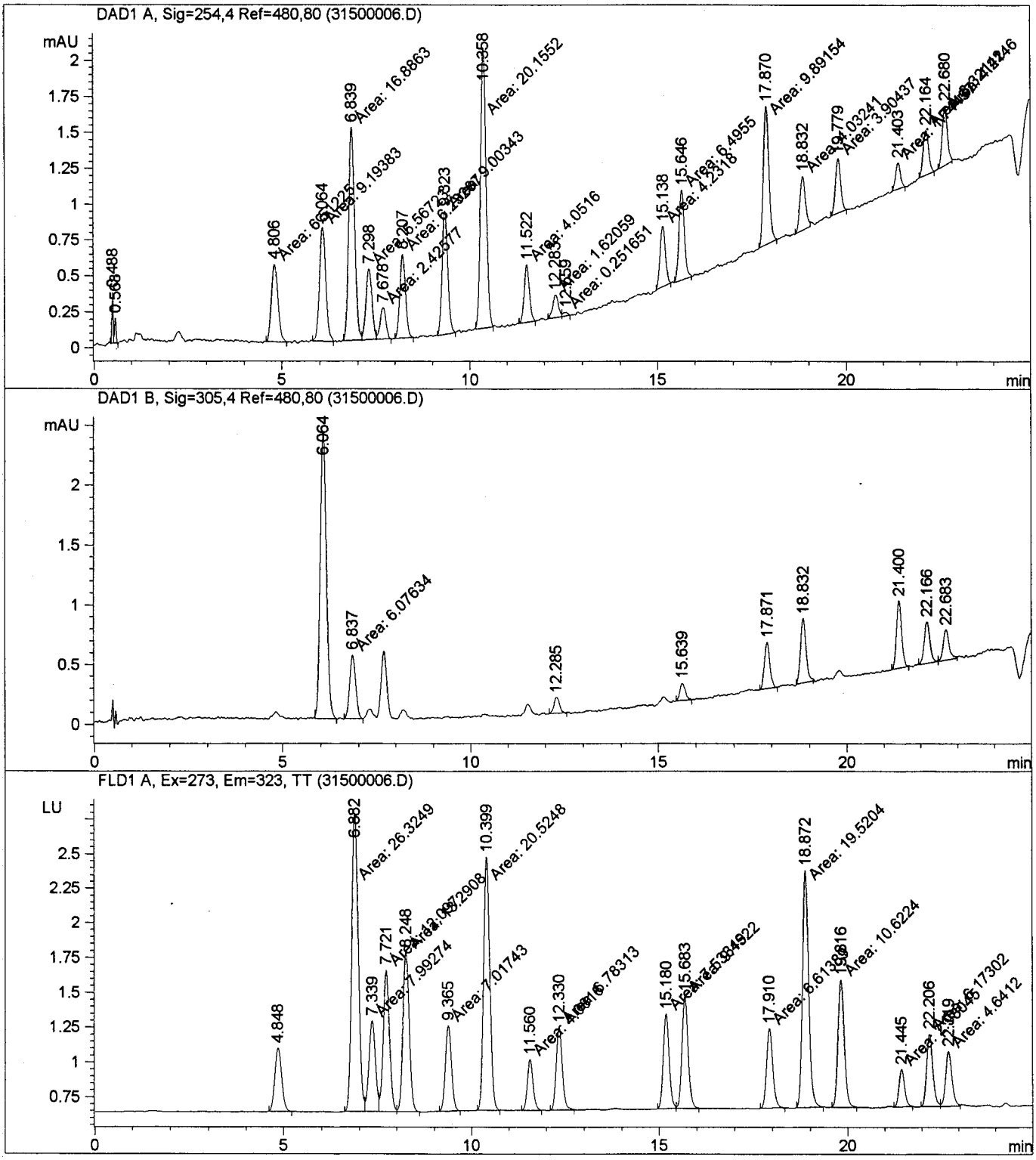
Injection Date	: 11/11/2005 1:27:15 PM	Seq. Line :	6
Sample Name	: ICAL,S1620	Location :	Vial 6
Acq. Operator	: HPL	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		

HPLC04 METHOD 8310



JM 14 NOV 2005

External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.806	MM	6.51225	56.86105	370.29343		Naphthalene
6.064	MM	9.19383	58.19914	535.07300		Acenaphthylene
6.839	MF	16.88634	73.04479	1233.45919		1-Methylnaphthalene (UV)
7.298	MF	5.56723	57.99403	322.86608		2-Methylnaphthalene
7.678	FM	2.42577	147.05712	356.72647		Acenaphthene
8.207	MM	6.23287	12.11196	75.49227		Fluorene
9.323	MM	9.00343	2.76923	24.93256		Phenanthrene
10.358	MM	20.15521	1.91776	38.65276		Anthracene
11.522	MM	4.05160	19.76988	80.09961		Fluoranthene
12.283	MF	1.62059	35.10247	56.88681		Pyrene
15.138	MM	4.23180	10.93045	46.25550		Benzo(a)anthracene
15.646	MM	6.49550	5.89676	38.30237		Chrysene
17.870	MM	9.89154	7.77704	76.92689		Benzo(b)fluoranthene
18.832	MF	4.03241	11.96373	48.24266		Benzo(k)fluoranthene
19.779	MM	3.90437	11.75763	45.90614		Benzo(a)pyrene
21.403	MM	1.74457	56.46976	98.51531		Dibenz(a,h)anthracene
22.164	MM	3.32142	28.03996	93.13242		Benzo(g,h,i)perylene
22.680	MM	4.21460	9.19393	38.74875		Indeno(1,2,3-cd)pyrene

Totals : 3580.51221

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.064	BP	27.33126	24.71319	675.44268		Acenaphthylene
6.837	MM	6.07634	213.49637	1297.27738		1-Methylnaphthalene (UV)

Totals : 1972.72006

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.848	BB	5.89779	49.41812	291.45757		Naphthalene
6.882	MF	26.32489	30.40977	800.53371		1-Methylnaphthalene (F)
7.339	MF	7.99274	39.37761	314.73504		2-Methylnaphthalene
7.721	MF	12.09695	29.44551	356.20097		Acenaphthene
8.248	FM	13.29075	4.05727	53.92417		Fluorene
9.365	MM	7.01743	3.35131	23.51756		Phenanthrene
10.399	MM	20.52480	1.63013	33.45802		Anthracene
11.560	MM	4.08160	20.52283	83.76600		Fluoranthene
12.330	MM	6.78313	7.86729	53.36481		Pyrene
15.180	MF	7.53349	5.17794	39.00797		Benzo(a)anthracene
15.683	FM	9.15220	2.67273	24.46138		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.910	MM	6.61389	10.62492	70.27206		Benzo(b)fluoranthene
18.872	MM	19.52037	1.78030	34.75221		Benzo(k)fluoranthene
19.816	MM	10.62241	3.35282	35.61502		Benzo(a)pyrene
21.445	MM	2.98045	33.40539	99.56307		Dibenz(a,h)anthracene
22.206	MF	6.17302	14.19328	87.61536		Benzo(g,h,i)perylene
22.719	MF	4.64120	9.78017	45.39175		Indeno(1,2,3-cd)pyrene

Totals : 2447.63667

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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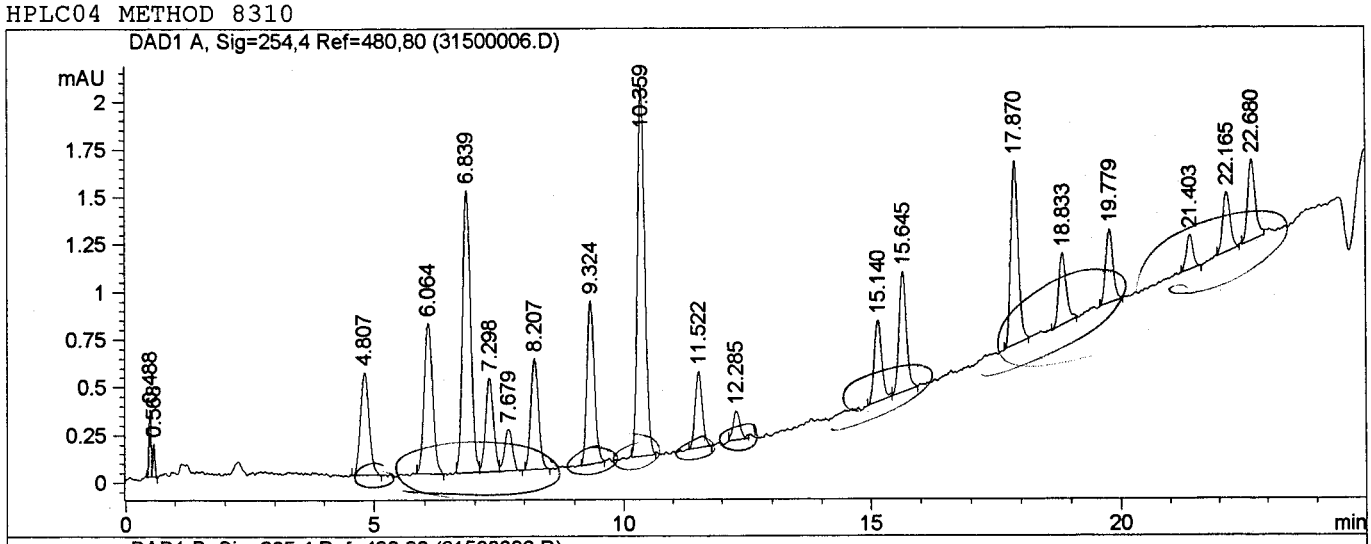
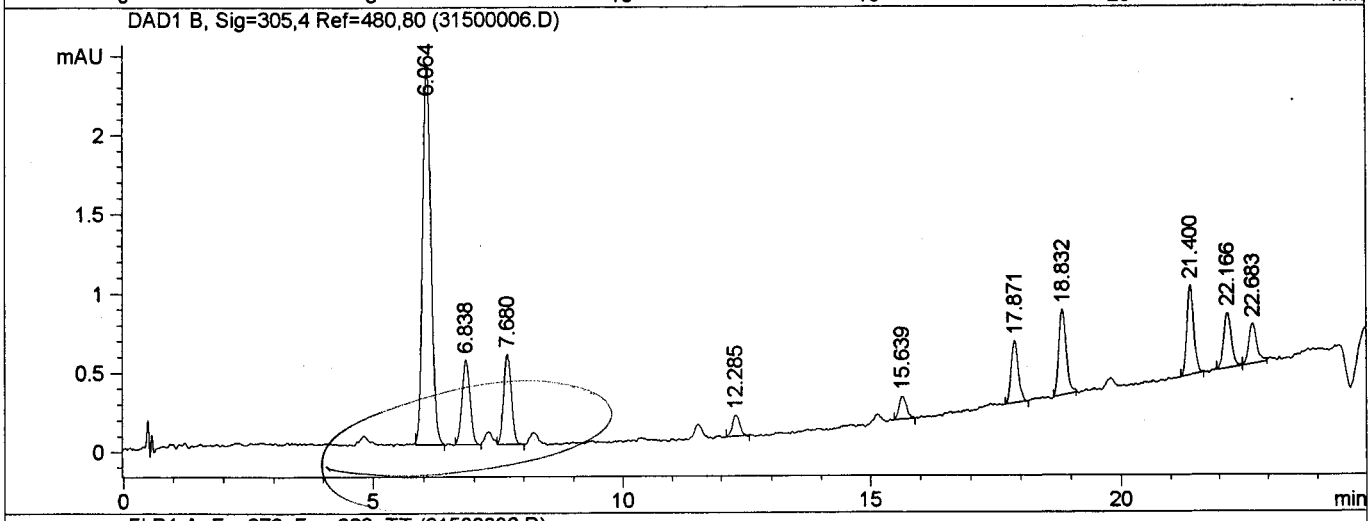
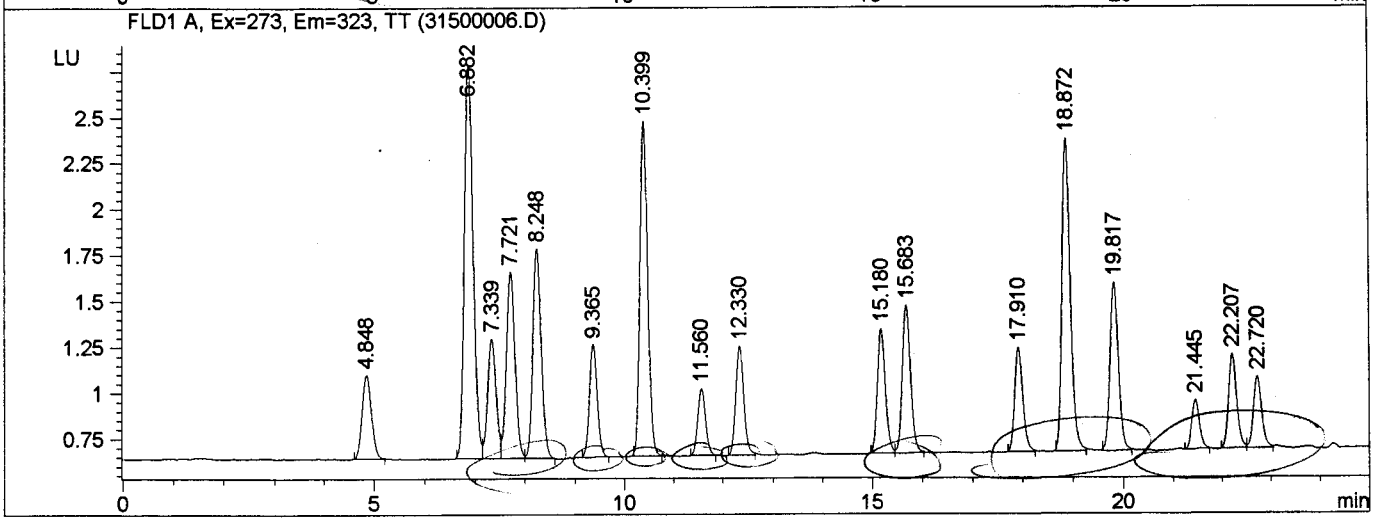
Injection Date	: 11/11/2005 1:27:15 PM	Seq. Line :	6
Sample Name	: ICAL,S1620	Location :	Vial 6
Acq. Operator	: HPL	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Sequence File	: G:\HPLC4\SEQUENCE\111105.S		
Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		

HPLC04 METHOD 8310







External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.807	BB	6.48843	56.79090	368.48387		Naphthalene
6.064	BP	9.08332	57.60331	523.22952		Acenaphthylene
6.839	BV	16.84054	72.92289	1228.06089		1-Methylnaphthalene (UV)
7.298	VV	5.53367	57.82593	319.98974		2-Methylnaphthalene
7.679	VP	2.37214	145.70353	345.62860		Acenaphthene
8.207	BP	6.18553	12.08387	74.74518		Fluorene
9.324	PB	9.00831	2.77079	24.96015		Phenanthrene
10.359	BB	20.20749	1.91976	38.79358		Anthracene
11.522	BP	3.99073	19.69836	78.61085		Fluoranthene
12.285	BB	1.55857	35.23862	54.92173		Pyrene
15.140	PB	4.45730	10.96271	48.86406		Benzo(a)anthracene
15.645	BB	6.62136	5.92577	39.23667		Chrysene
17.870	PB	9.93459	7.78333	77.32422		Benzo(b)fluoranthene
18.833	PB	4.02658	11.96323	48.17094		Benzo(k)fluoranthene
19.779	BB	3.97740	11.77272	46.82479		Benzo(a)pyrene
21.403	BP	1.79815	56.17209	101.00558		Dibenz(a,h)anthracene
22.165	BB	3.50165	28.13018	98.50199		Benzo(g,h,i)perylene
22.680	BB	4.68536	9.33797	43.75172		Indeno(1,2,3-cd)pyrene

Totals : 3561.10408

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.064	BP	27.33126	24.71319	675.44268		Acenaphthylene
6.838	BB	6.07096	213.39573	1295.51707		1-Methylnaphthalene (UV)

Totals : 1970.95975

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.848	BB	5.89779	49.41812	291.45757		Naphthalene
6.882	BV	26.27604	30.30604	796.32285		1-Methylnaphthalene (F)
7.339	VV	7.97189	39.30745	313.35471		2-Methylnaphthalene
7.721	VV	12.09099	29.43684	355.92065		Acenaphthene
8.248	VP	13.24561	4.04421	53.56798		Fluorene
9.365	BB	7.01924	3.35243	23.53151		Phenanthrene
10.399	BB	20.54425	1.63136	33.51512		Anthracene
11.560	BB	4.03565	20.46929	82.60681		Fluoranthene
12.330	BB	6.70945	7.86191	52.74905		Pyrene
15.180	BV	7.56173	5.18664	39.22003		Benzo(a)anthracene
15.683	VB	9.20633	2.69021	24.76698		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.910	BB	6.59814	10.61285	70.02508		Benzo(b)fluoranthene
18.872	BB	19.53803	1.78116	34.80030		Benzo(k)fluoranthene
19.817	BB	10.65707	3.35968	35.80430		Benzo(a)pyrene
21.445	BB	2.96583	33.41073	99.09071		Dibenz(a,h)anthracene
22.207	BV	6.13286	14.17284	86.92008		Benzo(g,h,i)perylene
22.720	VB	4.60901	9.77185	45.03854		Indeno(1,2,3-cd)pyrene

Totals : 2438.69226

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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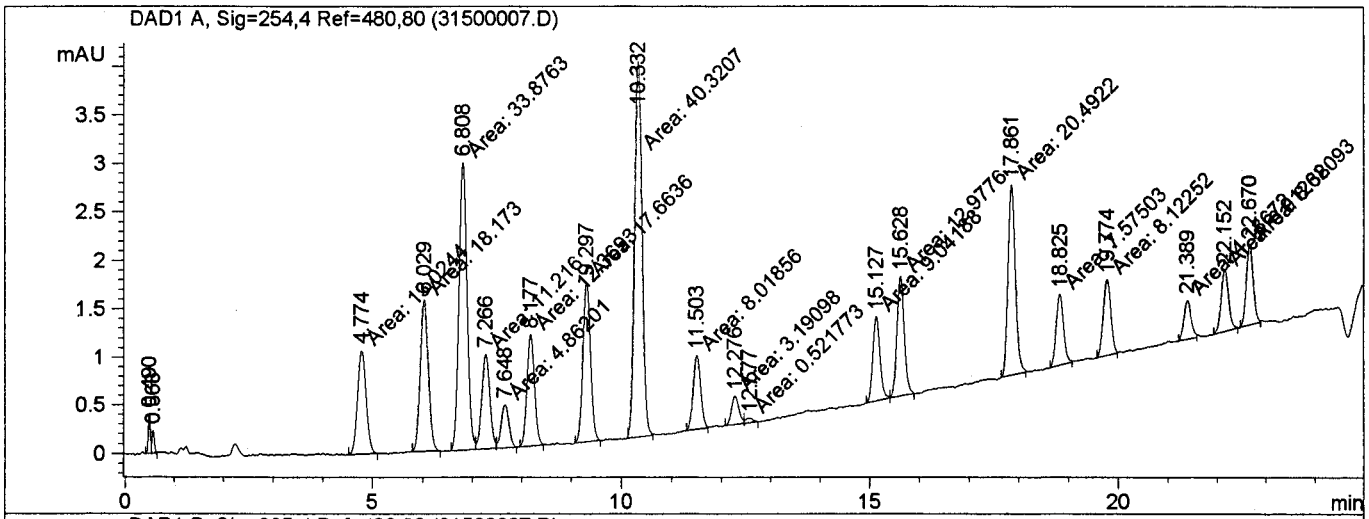
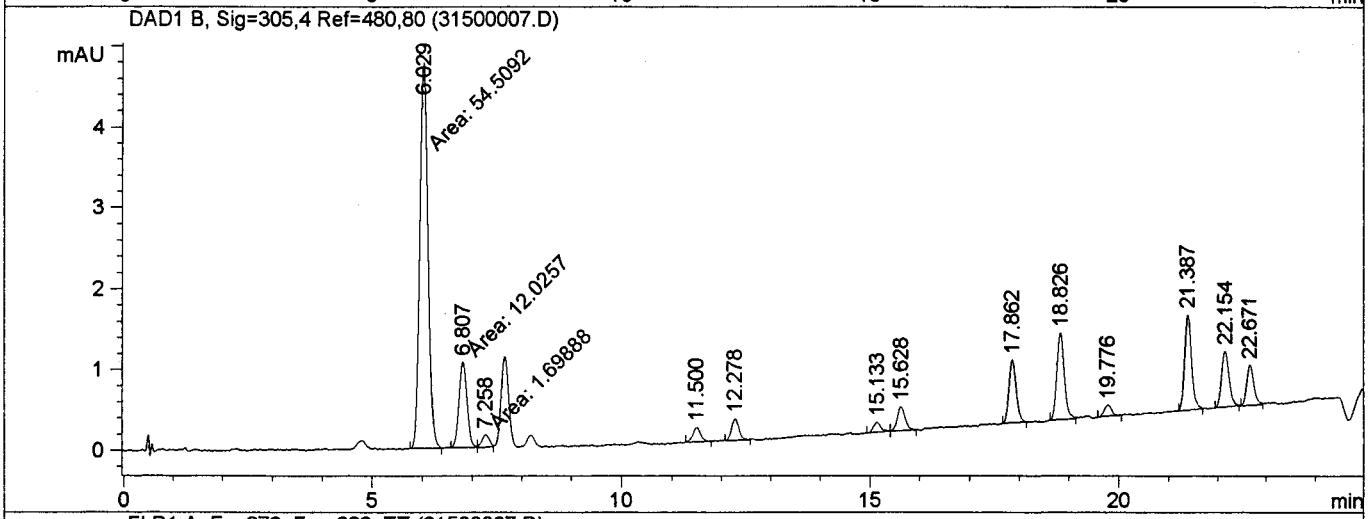
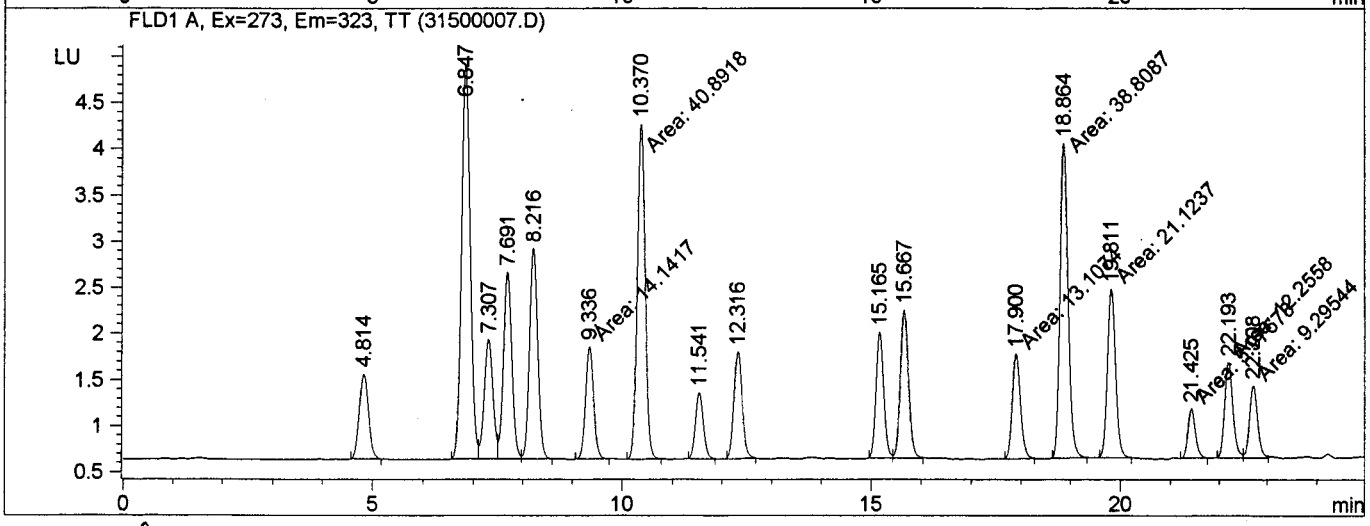
Injection Date	: 11/11/2005 1:58:51 PM	Seq. Line :	7
Sample Name	: ICAL,S1619	Location :	Vial 7
Acq. Operator	: HPL	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 11/14/2005 1:57:45 PM by HPL (modified after loading)		

HPLC04 METHOD 8310







JM 14 NOV 2005

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : Monday, November 14, 2005 1:57:34 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.774	MM	13.02439	66.99216	872.53169		Naphthalene
6.029	MM	18.17297	83.55352	1518.41598		Acenaphthylene
6.808	MF	33.87627	96.71765	3276.43283		1-Methylnaphthalene (UV)
7.266	FM	11.21599	73.32296	822.38937		2-Methylnaphthalene
7.648	FM	4.86201	178.86653	869.65035		Acenaphthene
8.177	MM	12.36933	14.06433	173.96632		Fluorene
9.297	MM	17.66359	4.22227	74.58050		Phenanthrene
10.332	MM	40.32065	2.29591	92.57274		Anthracene
11.503	MM	8.01856	22.16832	177.75807		Fluoranthene
12.276	MF	3.19098	32.73741	104.46441		Pyrene
15.127	MF	9.04188	11.28061	101.99799		Benzo(a)anthracene
15.628	FM	12.97757	6.69923	86.93967		Chrysene
17.861	MM	20.49215	8.60298	176.29366		Benzo(b)fluoranthene
18.825	MM	7.57503	12.17796	92.24839		Benzo(k)fluoranthene
19.774	MM	8.12252	12.03393	97.74582		Benzo(a)pyrene
21.389	MF	4.18672	51.13310	214.08023		Dibenz(a,h)anthracene
22.152	MM	6.91262	28.57869	197.55357		Benzo(g,h,i)perylene
22.670	MF	8.38093	10.03182	84.07599		Indeno(1,2,3-cd)pyrene

Totals : 9033.69759

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.029	MM	54.50918	30.31678	1652.54260		Acenaphthylene
6.807	MF	12.02570	272.17570	3273.10290		1-Methylnaphthalene (UV)

Totals : 4925.64550

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.814	BB	11.75017	70.01231	822.65631		Naphthalene
6.847	BV	52.31355	58.35180	3052.58985		1-Methylnaphthalene (F)
7.307	VV	15.91236	53.02456	843.74596		2-Methylnaphthalene
7.691	VV	24.11610	37.94756	915.14708		Acenaphthene
8.216	VB	26.56478	6.03100	160.21208		Fluorene
9.336	MF	14.14166	5.57014	78.77106		Phenanthrene
10.370	MF	40.89180	2.24842	91.94181		Anthracene
11.541	BB	8.04222	22.88283	184.02884		Fluoranthene
12.316	BB	13.19262	8.03945	106.06138		Pyrene
15.165	BV	14.92142	6.27323	93.60547		Benzo(a)anthracene
15.667	VB	18.25678	4.18510	76.40636		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.900	MM	13.10739	13.13570	172.17470		Benzo(b)fluoranthene
18.864	MM	38.80871	2.24549	87.14466		Benzo(k)fluoranthene
19.811	MM	21.12371	4.28178	90.44708		Benzo(a)pyrene
21.425	MM	5.97678	32.79226	195.99214		Dibenz(a,h)anthracene
22.193	MF	12.25580	15.52988	190.33112		Benzo(g,h,i)perylene
22.708	MF	9.29544	10.32540	95.97914		Indeno(1,2,3-cd)pyrene

Totals : 7257.23505

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

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*** End of Report ***

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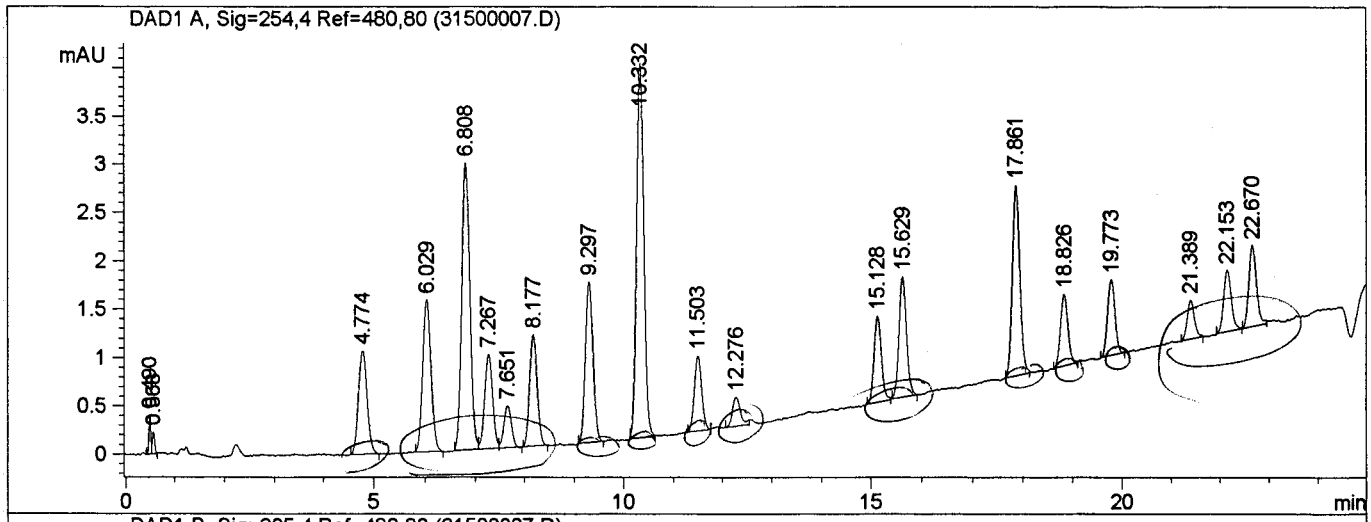
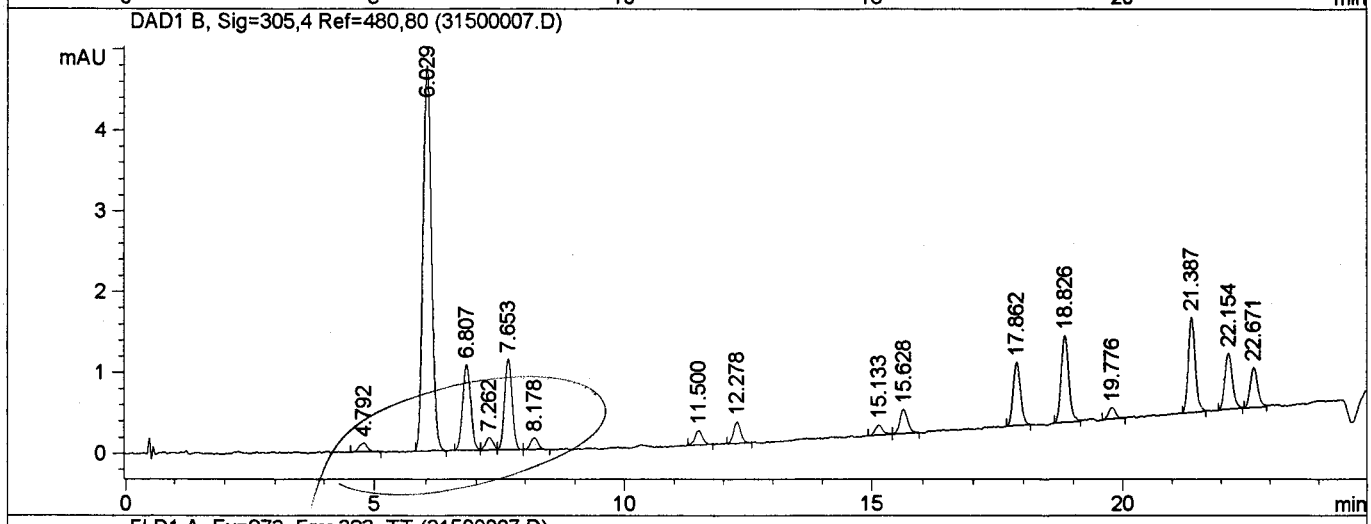
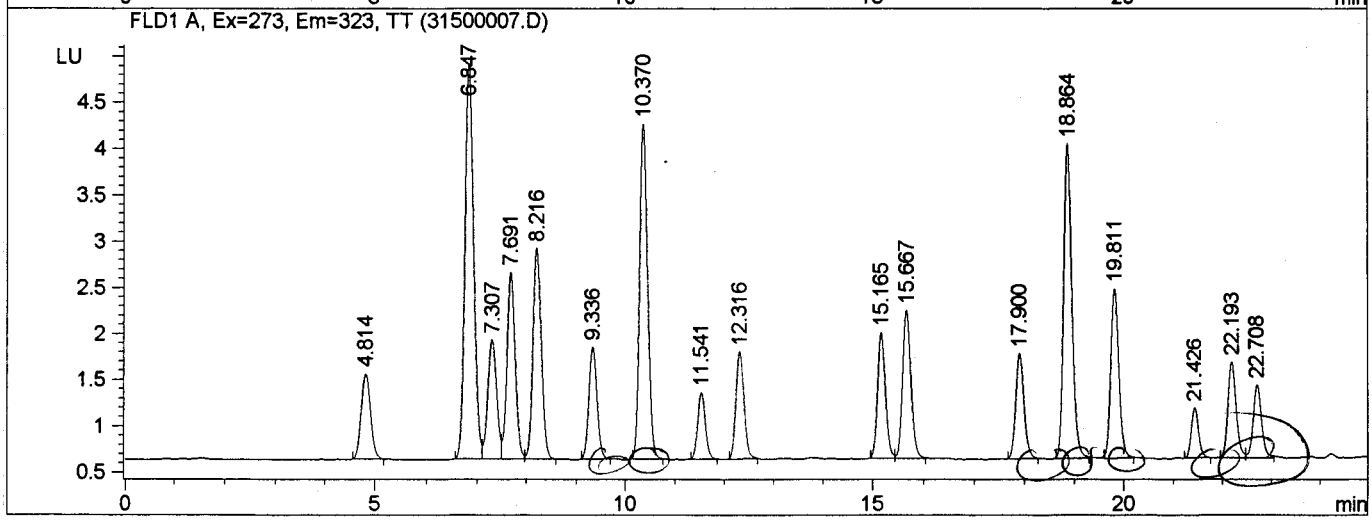
Injection Date	: 11/11/2005 1:58:51 PM	Seq. Line :	7
Sample Name	: ICAL,S1619	Location :	Vial 7
Acq. Operator	: HPL	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Sequence File	: G:\HPLC4\SEQUENCE\111105.S		
Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		

HPLC04 METHOD 8310







External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.774	BB	12.93610	66.34936	858.30216		Naphthalene
6.029	BP	18.10486	82.30406	1490.10338		Acenaphthylene
6.808	BV	33.69632	95.40349	3214.74658		1-Methylnaphthalene (UV)
7.267	VV	11.08442	71.79145	795.76654		2-Methylnaphthalene
7.651	VP	4.74731	176.33443	837.11399		Acenaphthene
8.177	BB	12.32529	13.92603	171.64236		Fluorene
9.297	BP	17.60023	4.17662	73.50957		Phenanthrene
10.332	BB	40.26488	2.30532	92.82361		Anthracene
11.503	BB	8.10875	22.11645	179.33672		Fluoranthene
12.276	BB	3.37576	33.32367	112.49269		Pyrene
15.128	BB	9.04709	11.26978	101.95875		Benzo(a)anthracene
15.629	BP	12.98439	6.65961	86.47095		Chrysene
17.861	BB	20.42125	8.52533	174.09794		Benzo(b)fluoranthene
18.826	PB	7.64667	12.12618	92.72493		Benzo(k)fluoranthene
19.773	PB	8.07857	12.18233	98.41584		Benzo(a)pyrene
21.389	PB	4.19752	50.63165	212.52734		Dibenz(a,h)anthracene
22.153	BB	6.92526	28.95217	200.50147		Benzo(g,h,i)perylene
22.670	BB	8.89846	9.94855	88.52670		Indeno(1,2,3-cd)pyrene

Totals : 8881.06150

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.029	BB	54.47855	29.93431	1630.77756		Acenaphthylene
6.807	BV	12.00962	269.56399	3237.36076		1-Methylnaphthalene (UV)

Totals : 4868.13833

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.814	BB	11.75017	69.75120	819.58829		Naphthalene
6.847	BV	52.31355	58.12799	3040.88144		1-Methylnaphthalene (F)
7.307	VV	15.91236	52.73126	839.07877		2-Methylnaphthalene
7.691	VV	24.11610	38.21651	921.63314		Acenaphthene
8.216	VB	26.56478	5.97242	158.65617		Fluorene
9.336	BB	14.06300	5.54162	77.93185		Phenanthrene
10.370	BB	40.76149	2.27821	92.86343		Anthracene
11.541	BB	8.04222	22.83820	183.66985		Fluoranthene
12.316	BB	13.19262	8.10517	106.92843		Pyrene
15.165	BV	14.92142	6.33121	94.47071		Benzo(a)anthracene
15.667	VB	18.25678	4.15561	75.86804		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.900	BB	13.14865	13.13871	172.75625		Benzo(b)fluoranthene
18.864	BB	38.92237	2.25029	87.58671		Benzo(k)fluoranthene
19.811	BB	21.28449	4.40834	93.82927		Benzo(a)pyrene
21.426	BB	5.97265	32.86253	196.27623		Dibenz(a,h)anthracene
22.193	BV	12.27477	15.74478	193.26353		Benzo(g,h,i)perylene
22.708	VB	9.31294	10.37773	96.64717		Indeno(1,2,3-cd)pyrene

Totals : 7251.92928

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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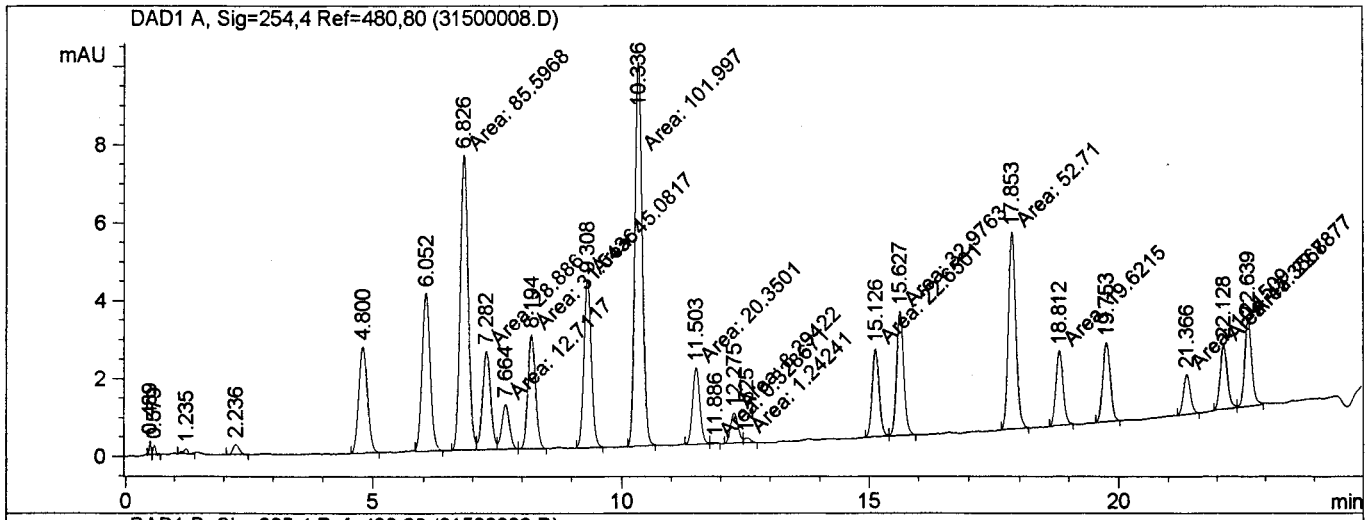
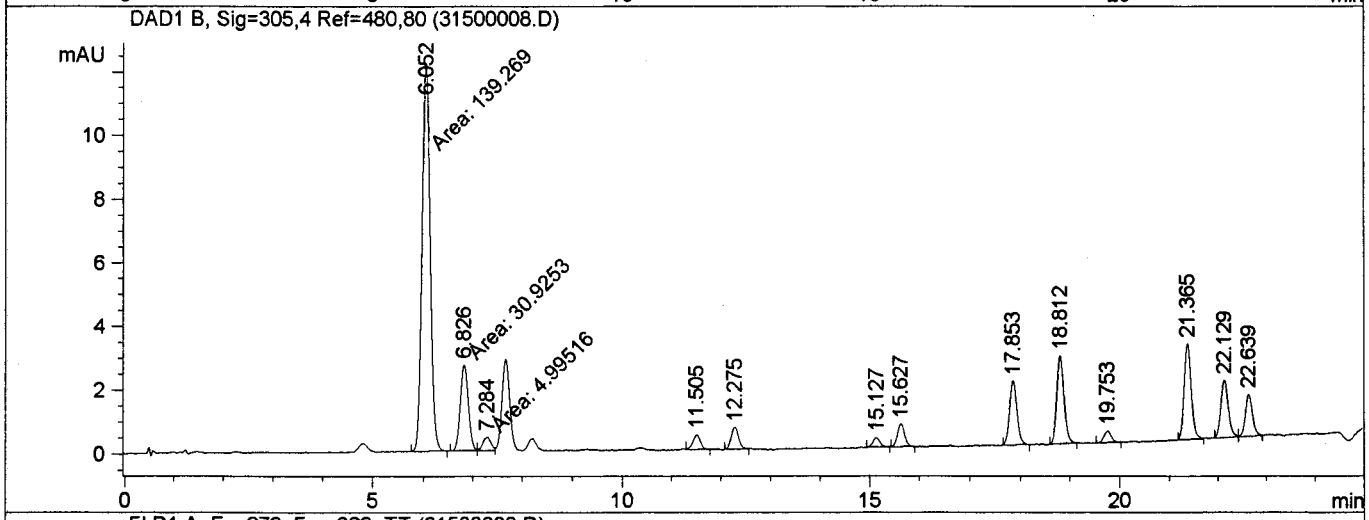
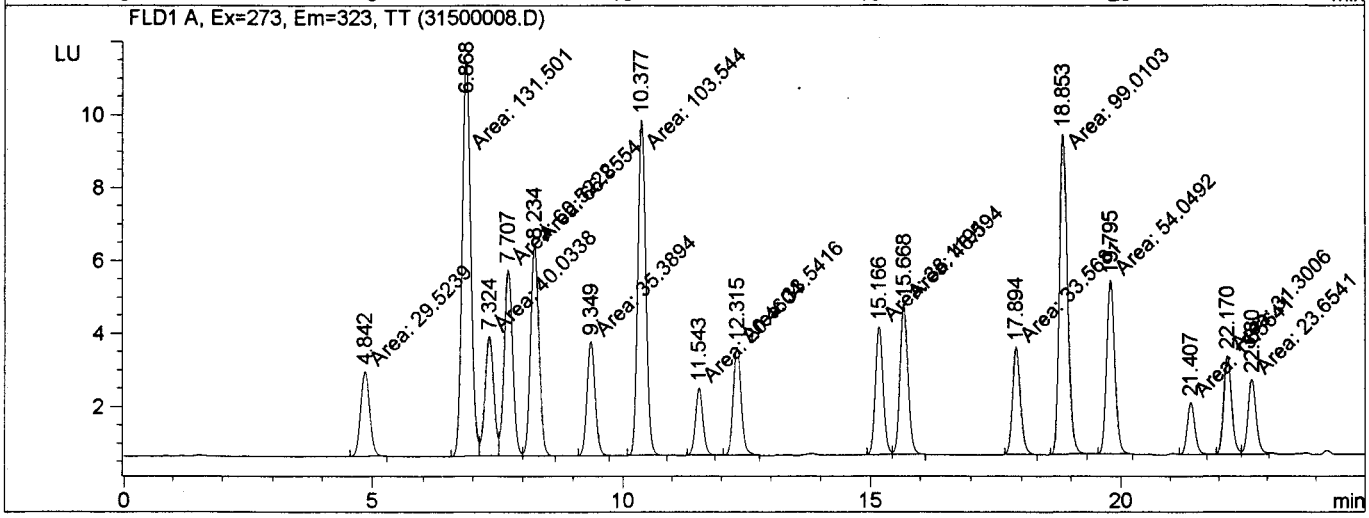
Injection Date	: 11/11/2005 2:30:29 PM	Seq. Line :	8
Sample Name	: ICAL,S1618	Location :	Vial 8
Acq. Operator	: HPL	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 11/14/2005 3:00:13 PM by HPL (modified after loading)		

HPLC04 METHOD 8310







Cfm 14 NOV 2005

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, November 14, 2005 3:00:10 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.800	BB	32.45070	72.70009	2359.16858		Naphthalene
6.052	BB	46.41474	98.73175	4582.60878		Acenaphthylene
6.826	MF	85.59682	110.17545	9430.66834		1-Methylnaphthalene (UV)
7.282	MF	28.88600	81.58671	2356.71340		2-Methylnaphthalene
7.664	MF	12.71169	197.23768	2507.22512		Acenaphthene
8.194	FM	31.54358	15.18195	478.89303		Fluorene
9.308	MM	45.08168	5.12333	230.96823		Phenanthrene
10.336	MM	101.99684	2.52989	258.04046		Anthracene
11.503	MF	20.35011	23.65285	481.33803		Fluoranthene
12.275	MF	8.29422	32.00940	265.49301		Pyrene
15.126	MF	22.65013	11.42245	258.72010		Benzo(a)anthracene
15.627	FM	32.97633	7.19471	237.25512		Chrysene
17.853	MM	52.71000	9.03563	476.26797		Benzo(b)fluoranthene
18.812	MM	19.62153	12.32258	241.78789		Benzo(k)fluoranthene
19.753	BB	21.05889	12.35024	260.08227		Benzo(a)pyrene
21.366	MM	10.15091	48.21422	489.41796		Dibenz(a,h)anthracene
22.128	MF	17.35672	29.29287	508.42823		Benzo(g,h,i)perylene
22.639	MF	22.88771	10.53760	241.18165		Indeno(1,2,3-cd)pyrene

Totals : 2.56643e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.052	MF	139.26938	33.52302	4668.72991		Acenaphthylene
6.826	MF	30.92526	307.37816	9505.74842		1-Methylnaphthalene (UV)

Totals : 1.41745e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.842	MM	29.52386	82.28063	2429.24189		Naphthalene
6.868	MF	131.50134	75.18472	9886.89193		1-Methylnaphthalene (F)
7.324	MF	40.03383	61.08019	2445.27424		2-Methylnaphthalene
7.707	MF	60.52220	43.21715	2615.59688		Acenaphthene
8.234	FM	66.85545	7.17540	479.71428		Fluorene
9.349	MF	35.38944	6.86115	242.81233		Phenanthrene
10.377	MF	103.54391	2.64167	273.52895		Anthracene
11.543	MF	20.46036	24.34715	498.15134		Fluoranthene
12.315	MM	33.54156	8.19409	274.84250		Pyrene
15.166	MF	38.11910	6.98704	266.33956		Benzo(a)anthracene
15.668	FM	46.59403	5.09200	237.25667		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.894	MM	33.56808	14.71074	493.81120		Benzo(b)fluoranthene
18.853	MM	99.01035	2.53583	251.07334		Benzo(k)fluoranthene
19.795	MM	54.04917	4.96313	268.25313		Benzo(a)pyrene
21.407	FM	15.56407	32.54079	506.46715		Dibenz(a,h)anthracene
22.170	MF	31.30061	16.54396	517.83608		Benzo(g,h,i)perylene
22.680	MF	23.65410	10.70895	253.31063		Indeno(1,2,3-cd)pyrene

Totals : 2.19404e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

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*** End of Report ***

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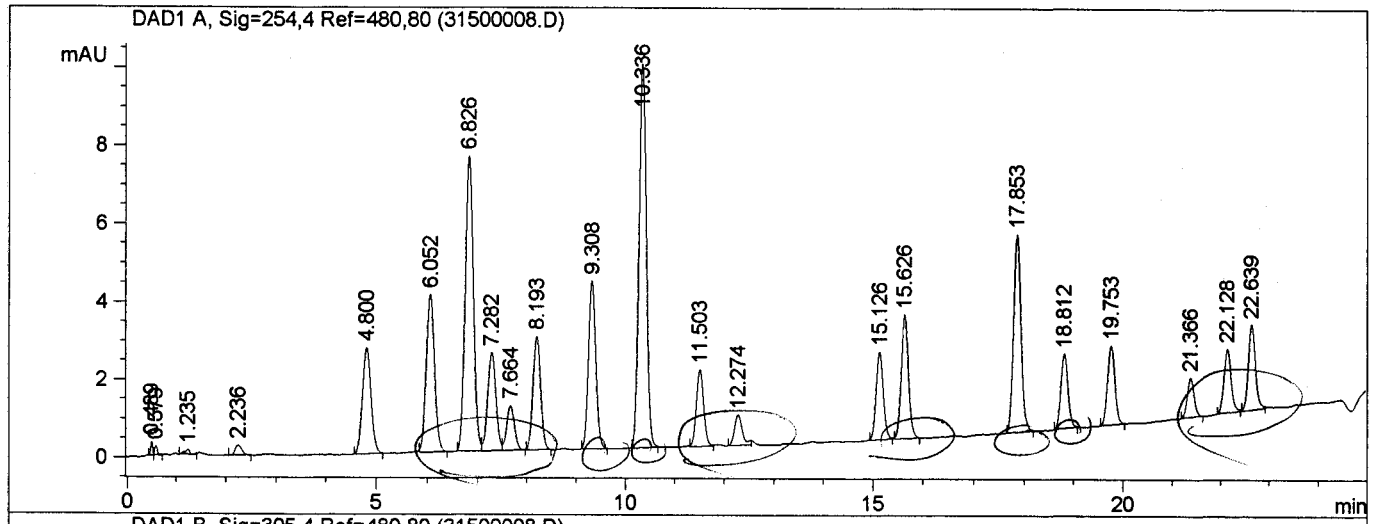
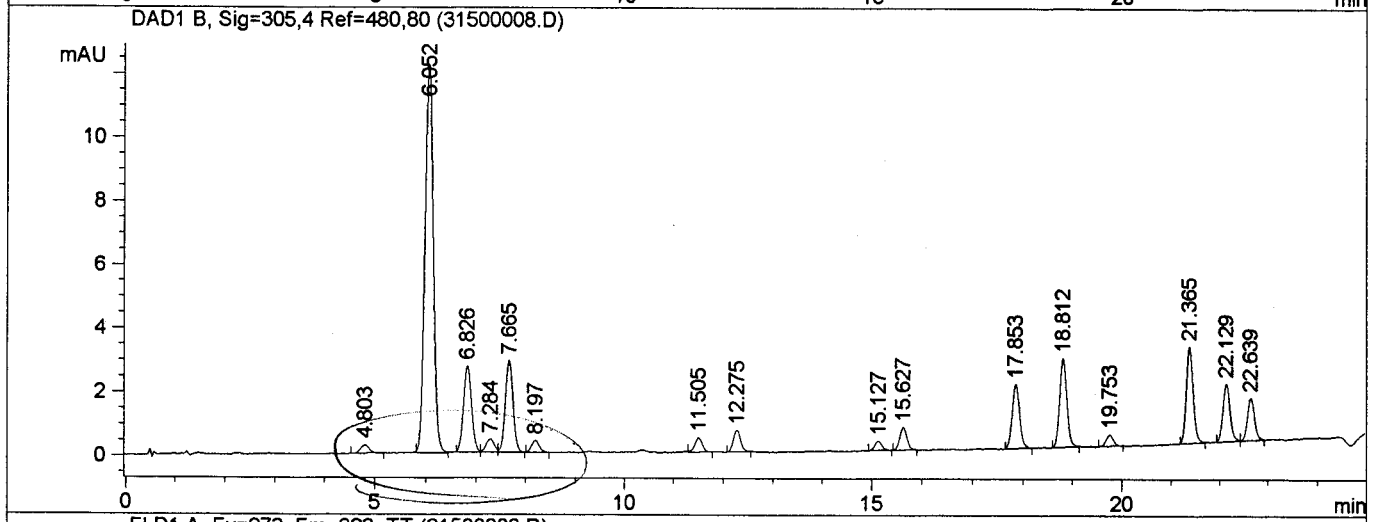
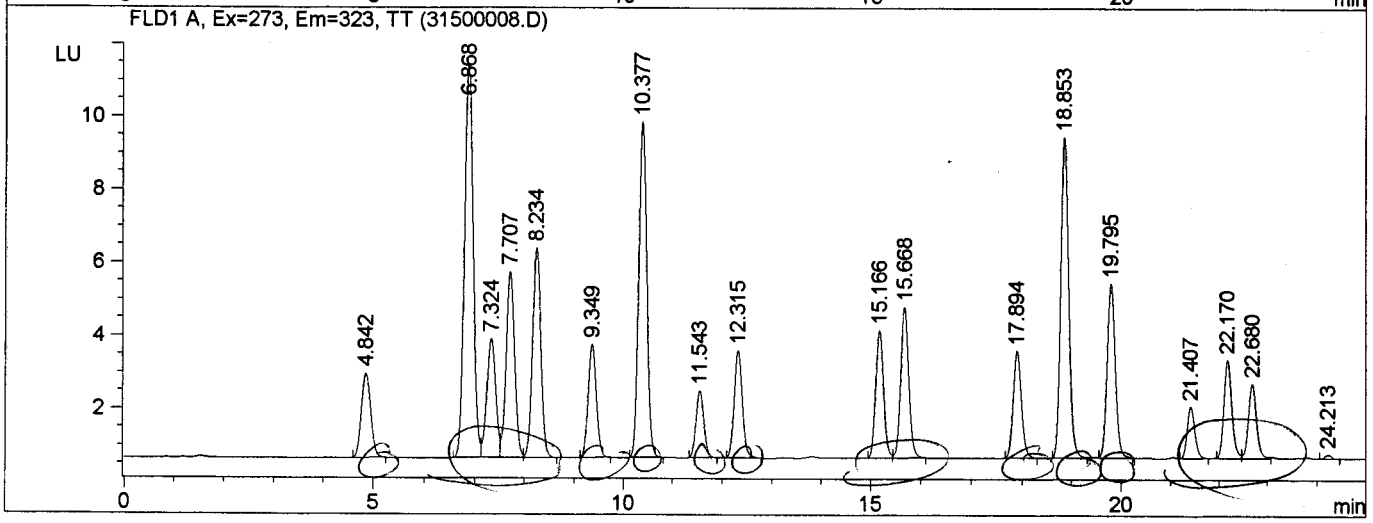
Injection Date	: 11/11/2005 2:30:29 PM	Seq. Line :	8
Sample Name	: ICAL,S1618	Location :	Vial 8
Acq. Operator	: HPL	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Sequence File	: G:\HPLC4\SEQUENCE\111105.S		
Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		

HPLC04 METHOD 8310







External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.800	BB	32.45070	72.13379	2340.79149		Naphthalene
6.052	BB	46.41474	97.47305	4524.18642		Acenaphthylene
6.826	BV	85.48909	109.01084	9319.23762		1-Methylnaphthalene (UV)
7.282	VV	28.86073	80.36683	2319.44495		2-Methylnaphthalene
7.664	VB	12.75819	195.54302	2494.77487		Acenaphthene
8.193	BP	31.35541	15.05241	471.97439		Fluorene
9.308	BB	44.95625	5.07354	228.08720		Phenanthrene
10.336	BB	101.81434	2.54015	258.62379		Anthracene
11.503	BB	20.25716	23.52177	476.48430		Fluoranthene
12.274	BB	8.86513	32.30667	286.40285		Pyrene
15.126	BB	22.58729	11.44855	258.59180		Benzo(a)anthracene
15.626	BB	32.85527	7.12145	233.97726		Chrysene
17.853	BB	52.60531	8.95539	471.10131		Benzo(b)fluoranthene
18.812	BB	19.49981	12.23636	238.60663		Benzo(k)fluoranthene
19.753	BB	21.05889	12.42719	261.70278		Benzo(a)pyrene
21.366	BB	9.82602	48.25325	474.13755		Dibenz(a,h)anthracene
22.128	BB	17.33887	29.45711	510.75295		Benzo(g,h,i)perylene
22.639	BB	22.90755	10.36379	237.40916		Indeno(1,2,3-cd)pyrene

Totals : 2.54063e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.052	BB	139.20410	33.13364	4612.33824		Acenaphthylene
6.826	BV	30.88276	304.65438	9408.56827		1-Methylnaphthalene (UV)

Totals : 1.40209e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.842	BB	29.54389	82.09246	2425.33050		Naphthalene
6.868	BV	131.35318	75.02275	9854.47696		1-Methylnaphthalene (F)
7.324	VV	39.92328	60.83664	2428.79830		2-Methylnaphthalene
7.707	VV	60.68877	43.53636	2642.16794		Acenaphthene
8.234	VP	66.88683	7.12841	476.79680		Fluorene
9.349	BB	35.33434	6.85493	242.21443		Phenanthrene
10.377	BB	103.36371	2.67632	276.63413		Anthracene
11.543	BB	20.42098	24.28460	495.91516		Fluoranthene
12.315	BP	33.42951	8.25757	276.04666		Pyrene
15.166	BV	38.16887	7.04747	268.99399		Benzo(a)anthracene
15.668	VB	46.75665	5.06420	236.78521		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.894	BB	33.65839	14.68903	494.40905		Benzo(b)fluoranthene
18.853	BB	99.28812	2.53778	251.97150		Benzo(k)fluoranthene
19.795	BB	54.40104	5.04849	274.64337		Benzo(a)pyrene
21.407	VB	15.67480	32.52783	509.86704		Dibenz(a,h)anthracene
22.170	BV	31.43434	16.70147	524.99978		Benzo(g,h,i)perylene
22.680	VB	23.90936	10.74014	256.78992		Indeno(1,2,3-cd)pyrene

Totals : 2.19368e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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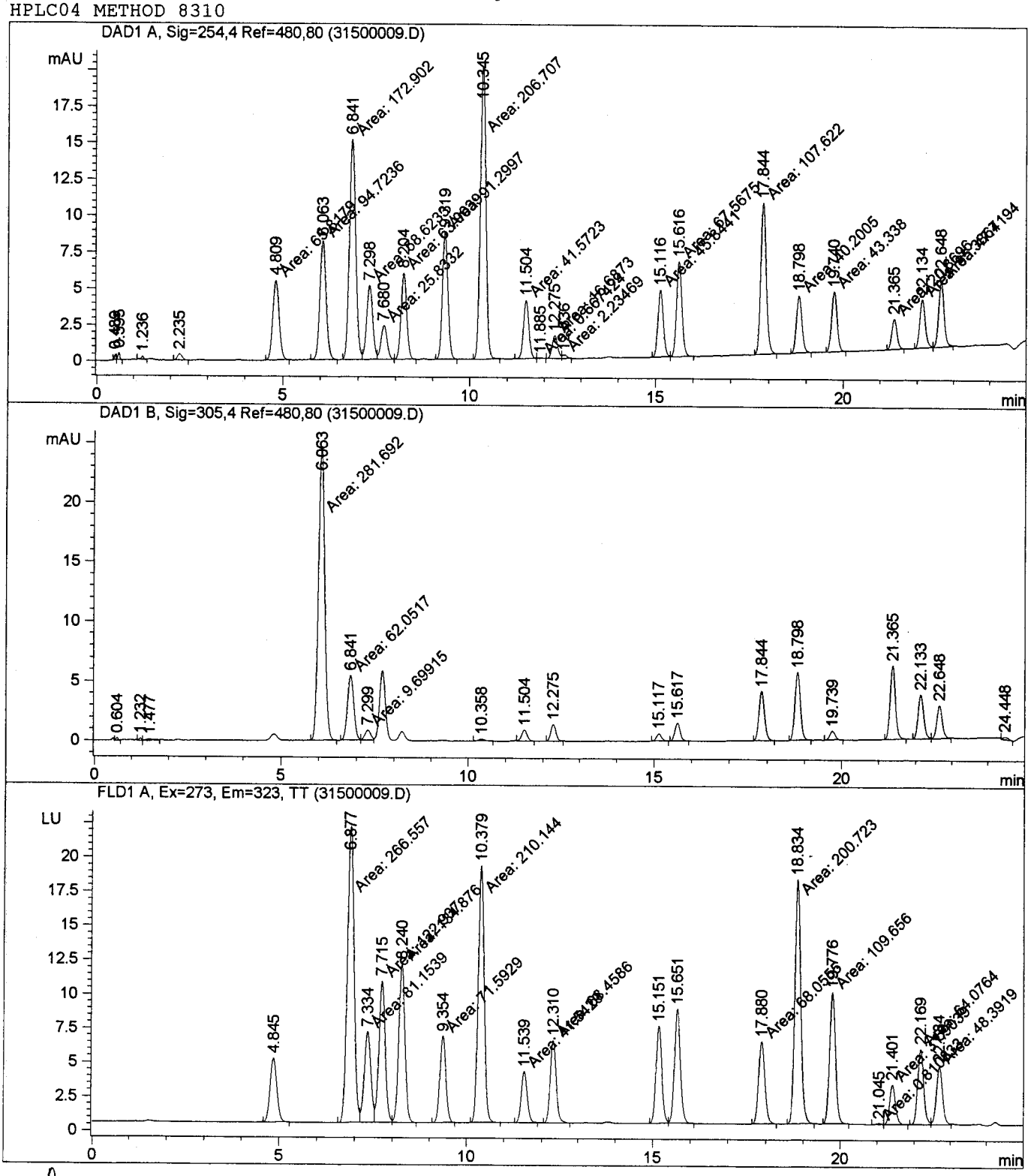
Injection Date	: 11/11/2005 3:02:07 PM	Seq. Line :	9
Sample Name	: ICAL,S1617	Location :	Vial 9
Acq. Operator	: HPL	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 11/14/2005 3:07:01 PM by HPL (modified after loading)		

HPLC04 METHOD 8310



Jm 14NOV2005

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, November 14, 2005 3:06:58 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.809	MM	65.81794	74.68990	4915.93565		Naphthalene
6.063	FM	94.72365	103.57941	9811.41968		Acenaphthylene
6.841	MF	172.90190	114.52772	1.98021e4		1-Methylnaphthalene (UV)
7.298	MF	58.62328	83.99525	4924.07679		2-Methylnaphthalene
7.680	FM	25.83322	201.74861	5211.81622		Acenaphthene
8.204	FM	63.90393	15.52644	992.20051		Fluorene
9.319	MM	91.29965	5.41015	493.94477		Phenanthrene
10.345	MF	206.70654	2.60142	537.73146		Anthracene
11.504	MF	41.57235	24.11833	1002.65548		Fluoranthene
12.275	MF	16.68730	31.70947	529.14556		Pyrene
15.116	MF	45.84408	11.45890	525.32273		Benzo(a)anthracene
15.616	FM	67.56745	7.34524	496.29920		Chrysene
17.844	MM	107.62183	9.16500	986.35375		Benzo(b)fluoranthene
18.798	MM	40.20050	12.34819	496.40329		Benzo(k)fluoranthene
19.740	MM	43.33799	12.39316	537.09448		Benzo(a)pyrene
21.365	MM	20.86957	47.48779	991.04990		Dibenz(a,h)anthracene
22.134	MF	35.38666	29.52447	1044.77234		Benzo(g,h,i)perylene
22.648	FM	47.41936	10.61514	503.36312		Indeno(1,2,3-cd)pyrene

Totals : 5.38016e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.063	MM	281.69171	34.54217	9730.24318		Acenaphthylene
6.841	MF	62.05173	318.05797	1.97360e4		1-Methylnaphthalene (UV)

Totals : 2.94663e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.845	BB	59.72798	86.28175	5153.43422		Naphthalene
6.877	MF	266.55655	80.64870	2.14974e4		1-Methylnaphthalene (F)
7.334	MF	81.15388	63.66615	5166.75506		2-Methylnaphthalene
7.715	MF	122.93717	44.89577	5519.35887		Acenaphthene
8.240	FM	134.87556	7.55029	1018.34974		Fluorene
9.354	MM	71.59289	7.28517	521.56619		Phenanthrene
10.379	MF	210.14381	2.76086	580.17705		Anthracene
11.539	MF	41.54289	24.76682	1028.88537		Fluoranthene
12.310	MM	68.45862	8.20594	561.76725		Pyrene
15.151	BV	77.56648	7.19253	557.89922		Benzo(a)anthracene
15.651	VB	94.90897	5.38216	510.81504		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.880	MM	68.05548	15.18983	1033.75095		Benzo(b)fluoranthene
18.834	MM	200.72287	2.62546	526.98894		Benzo(k)fluoranthene
19.776	MM	109.65622	5.16005	565.83140		Benzo(a)pyrene
21.401	FM	31.90387	32.38865	1033.32317		Dibenz(a,h)anthracene
22.169	MF	64.07645	16.84718	1079.50768		Benzo(g,h,i)perylene
22.684	MF	48.39191	10.82100	523.64893		Indeno(1,2,3-cd)pyrene

Totals : 4.68795e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

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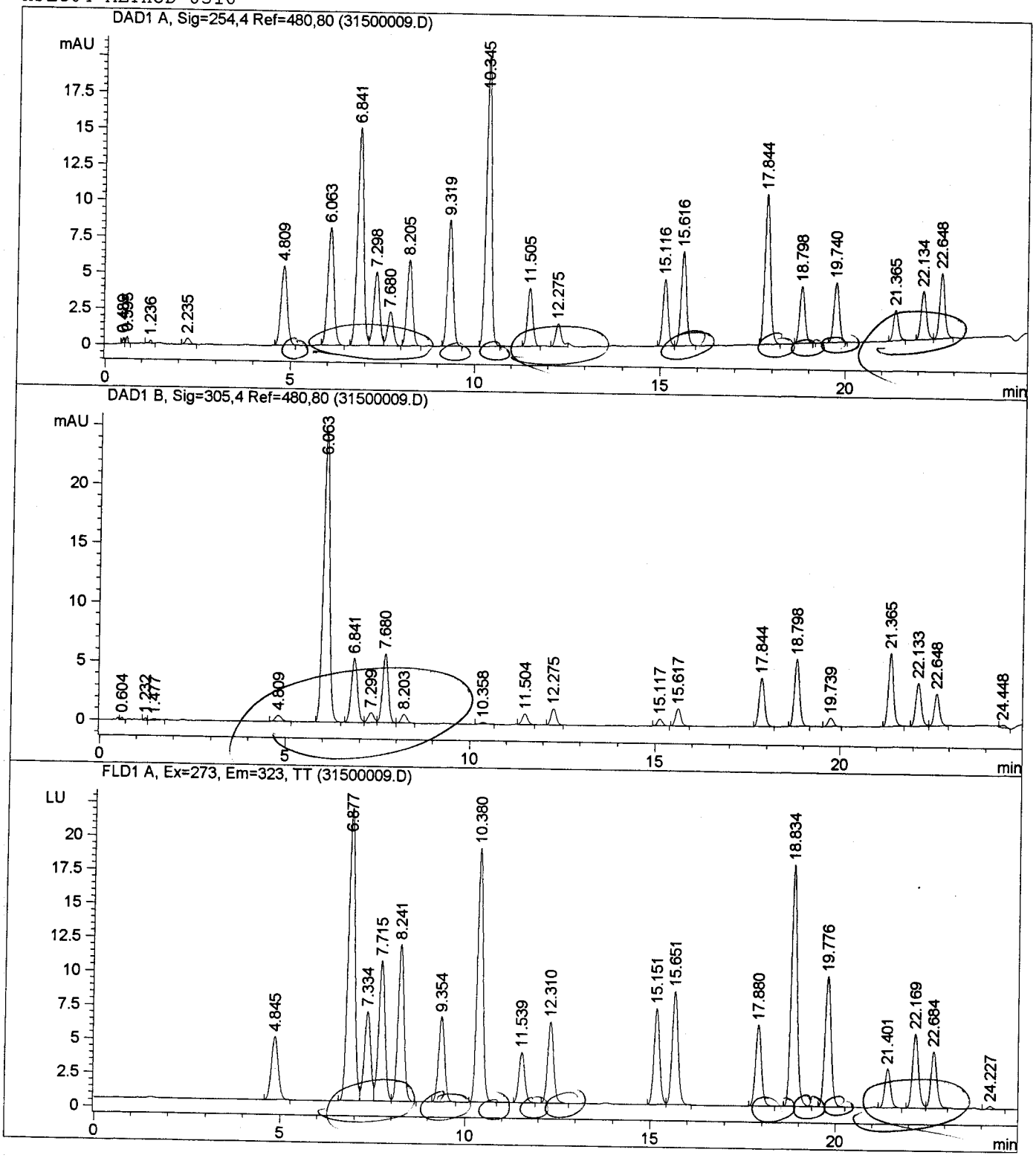
*** End of Report ***

Injection Date	: 11/11/2005 3:02:07 PM	Seq. Line :	9
Sample Name	: ICAL,S1617	Location :	Vial 9
Acq. Operator	: HPL	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Sequence File	: G:\HPLC4\SEQUENCE\111105.S		
Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		

HPLC04 METHOD 8310



External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.809	BB	65.71278	74.07469	4867.65345		Naphthalene
6.063	BP	94.12169	102.39011	9637.13016		Acenaphthylene
6.841	BV	172.73824	113.48241	1.96028e4		1-Methylnaphthalene (UV)
7.298	VV	58.57263	83.07927	4866.17115		2-Methylnaphthalene
7.680	VB	25.83042	201.30380	5199.76231		Acenaphthene
8.205	BP	63.65963	15.42261	981.79736		Fluorene
9.319	BB	90.98497	5.36546	488.17656		Phenanthrene
10.345	BB	206.27675	2.61795	540.02164		Anthracene
11.505	BB	41.39744	24.00079	993.57129		Fluoranthene
12.275	BB	17.62935	31.99576	564.06441		Pyrene
15.116	BV	45.72667	11.50900	526.26804		Benzo(a)anthracene
15.616	VB	67.40410	7.27614	490.44141		Chrysene
17.844	BB	107.38456	9.09460	976.61920		Benzo(b)fluoranthene
18.798	BP	39.85841	12.27266	489.16867		Benzo(k)fluoranthene
19.740	BB	43.09857	12.50512	538.95278		Benzo(a)pyrene
21.365	BB	20.85756	47.31513	986.87813		Dibenz(a,h)anthracene
22.134	BV	35.32772	29.62809	1046.69313		Benzo(g,h,i)perylene
22.648	VB	47.31700	10.49986	496.82201		Indeno(1,2,3-cd)pyrene

Totals : 5.32929e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.063	BB	282.09546	34.17567	9640.80043		Acenaphthylene
6.841	BV	62.37429	315.92794	1.97058e4		1-Methylnaphthalene (UV)

Totals : 2.93466e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.845	BB	59.72798	86.21093	5149.20472		Naphthalene
6.877	BV	266.22534	80.68768	2.14811e4		1-Methylnaphthalene (F)
7.334	VV	81.04146	63.56202	5151.15865		2-Methylnaphthalene
7.715	VV	123.21004	45.31641	5583.43619		Acenaphthene
8.241	VP	134.90443	7.51239	1013.45508		Fluorene
9.354	BB	71.58997	7.29465	522.22361		Phenanthrene
10.380	BB	209.99489	2.80794	589.65317		Anthracene
11.539	BB	41.48593	24.76174	1027.26370		Fluoranthene
12.310	BB	68.45389	8.30841	568.74285		Pyrene
15.151	BV	77.56648	7.28098	564.75992		Benzo(a)anthracene
15.651	VB	94.90897	5.35950	508.66493		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.880	BB	68.38180	15.19372	1038.97377		Benzo(b)fluoranthene
18.834	BB	201.39085	2.63176	530.01225		Benzo(k)fluoranthene
19.776	BB	110.50912	5.25739	580.98965		Benzo(a)pyrene
21.401	VB	31.95950	32.42284	1036.21768		Dibenz(a,h)anthracene
22.169	BV	64.03069	17.01349	1089.38566		Benzo(g,h,i)perylene
22.684	VB	48.75404	10.85798	529.37037		Indeno(1,2,3-cd)pyrene

Totals : 4.69646e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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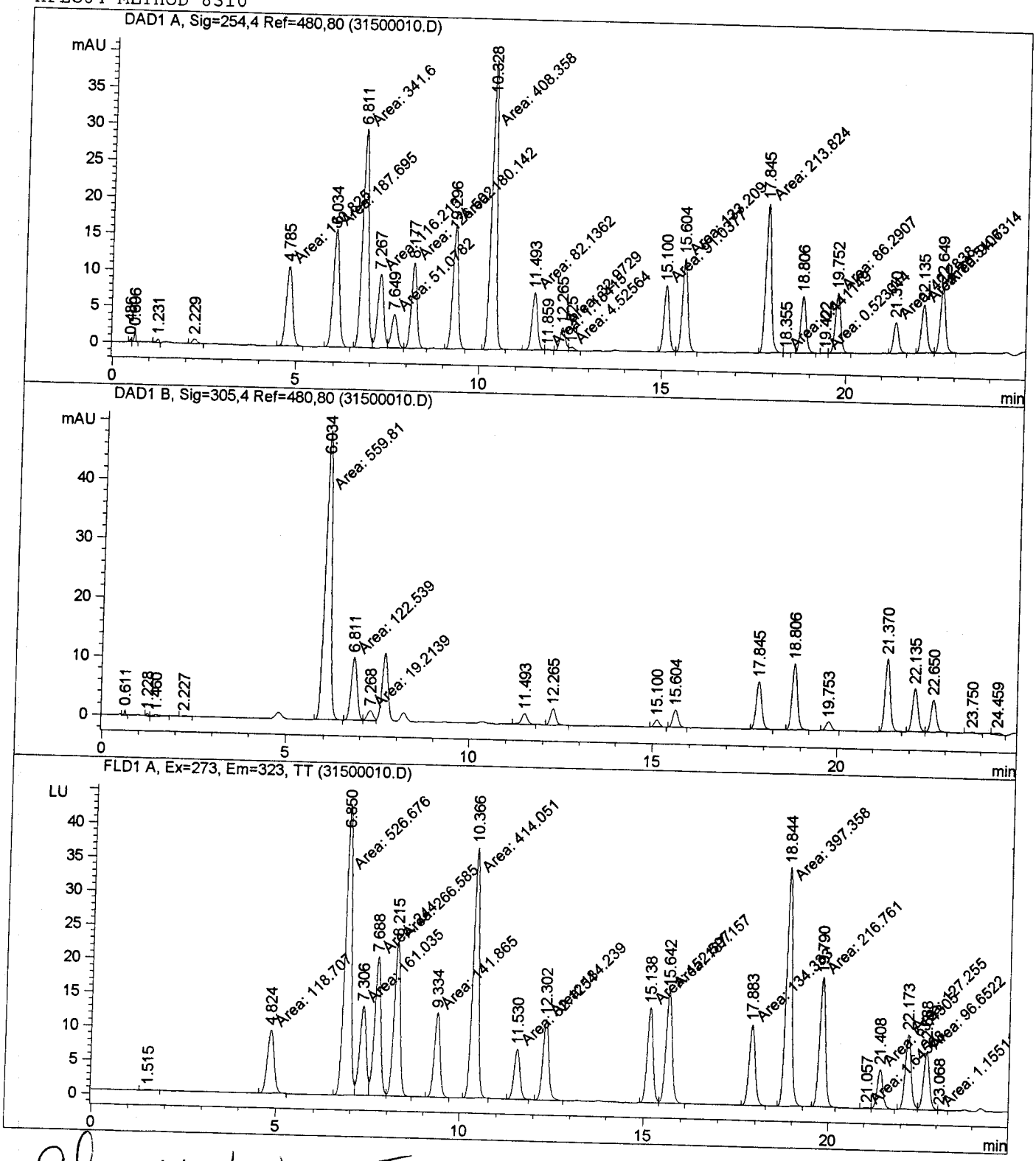
*** End of Report ***

Data File G:\HPLC4\DATA\31500010.D

Sample Name: ICAL,S1616

Injection Date	: 11/11/2005 3:33:43 PM	Seq. Line	: 10
Sample Name	: ICAL,S1616	Location	: Vial 10
Acq. Operator	: HPL	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 11/14/2005 3:14:51 PM by HPL (modified after loading)		

HPLC04 METHOD 8310



CJm 14NOV2005

HPLC 4 11/14/2005 3:22:39 PM HPL

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, November 14, 2005 3:14:48 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.785	MM	130.82538	75.54302	9882.94420		Naphthalene
6.034	FM	187.69478	105.70363	1.98400e4		Acenaphthylene
6.811	MF	341.59979	116.48709	3.97920e4		1-Methylnaphthalene (UV)
7.267	MF	116.21339	85.00920	9879.20684		2-Methylnaphthalene
7.649	FM	51.07816	203.87406	1.04135e4		Acenaphthene
8.177	FM	126.50168	15.68515	1984.19809		Fluorene
9.296	MM	180.14212	5.54173	998.29810		Phenanthrene
10.328	MM	408.35837	2.63616	1076.49807		Anthracene
11.493	MF	82.13621	24.31602	1997.22570		Fluoranthene
12.265	MF	32.97289	31.58154	1041.33440		Pyrene
15.100	MF	91.03773	11.47857	1044.98346		Benzo(a)anthracene
15.604	FM	133.20935	7.39809	985.49501		Chrysene
17.845	MF	213.82385	9.21996	1971.44655		Benzo(b)fluoranthene
18.806	BB	80.29658	12.34046	990.89709		Benzo(k)fluoranthene
19.752	FM	86.29072	12.40943	1070.81845		Benzo(a)pyrene
21.370	MM	42.28377	47.03858	1988.96843		Dibenz(a,h)anthracene
22.135	MF	70.51058	29.55885	2084.21172		Benzo(g,h,i)perylene
22.649	FM	94.73141	10.61609	1005.67688		Indeno(1,2,3-cd)pyrene

Totals : 1.08048e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.034	MM	559.80969	34.99729	1.95918e4		Acenaphthylene
6.811	MF	122.53880	323.25111	3.96108e4		1-Methylnaphthalene (UV)

Totals : 5.92026e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.824	MM	118.70710	88.18639	1.04684e4		Naphthalene
6.850	MF	526.67639	83.23390	4.38373e4		1-Methylnaphthalene (F)
7.306	MF	161.03452	64.87271	1.04467e4		2-Methylnaphthalene
7.688	MF	243.99982	45.76548	1.11668e4		Acenaphthene
8.215	FM	266.58530	7.72147	2058.43018		Fluorene
9.334	MM	141.86461	7.48991	1062.55291		Phenanthrene
10.366	MM	414.05106	2.82175	1168.34684		Anthracene
11.530	MF	82.12543	24.96775	2050.48763		Fluoranthene
12.302	FM	134.23868	8.22917	1104.67311		Pyrene
15.138	MF	152.59743	7.29908	1113.82089		Benzo(a)anthracene
15.642	FM	187.15659	5.51415	1032.00974		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.883	MM	134.33257	15.41683	2070.98167		Benzo(b)fluoranthene
18.844	MM	397.35812	2.66866	1060.41316		Benzo(k)fluoranthene
19.790	MM	216.76112	5.26196	1140.58923		Benzo(a)pyrene
21.408	FM	63.43048	32.29165	2048.27502		Dibenz(a,h)anthracene
22.173	MF	127.25459	16.99433	2162.60667		Benzo(g,h,i)perylene
22.688	FM	96.65224	10.86816	1050.43188		Indeno(1,2,3-cd)pyrene

Totals : 9.50428e4

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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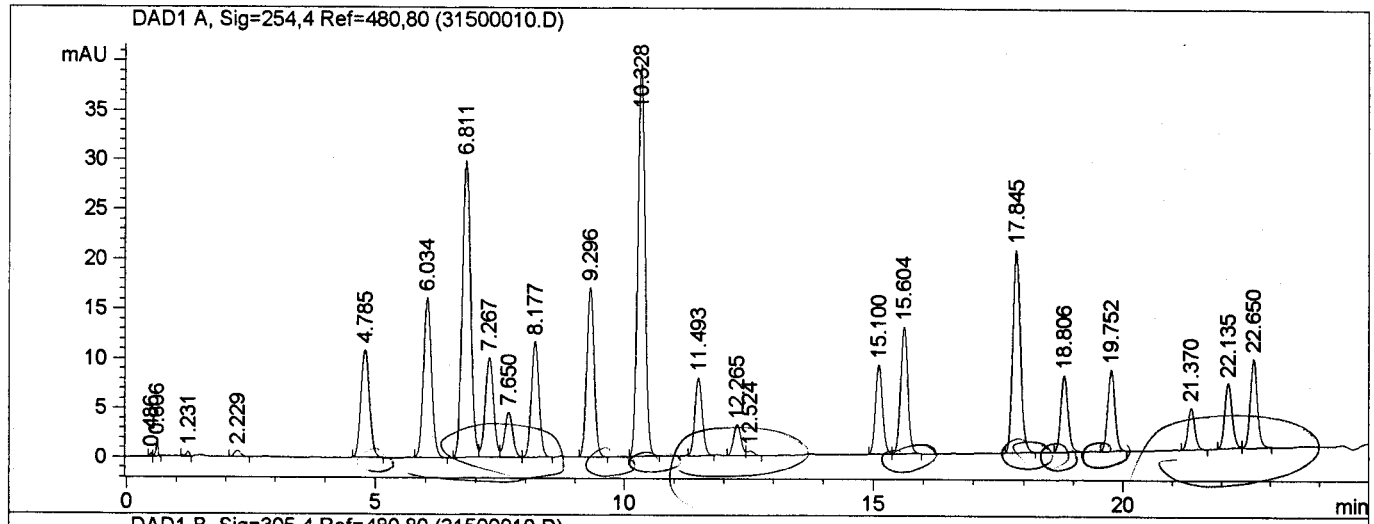
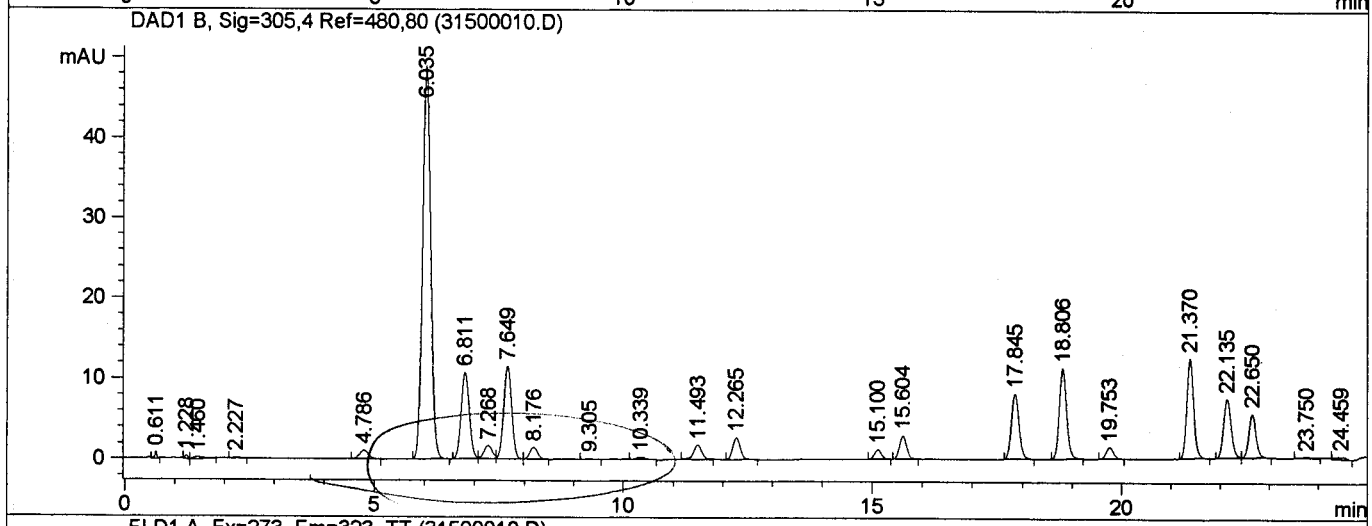
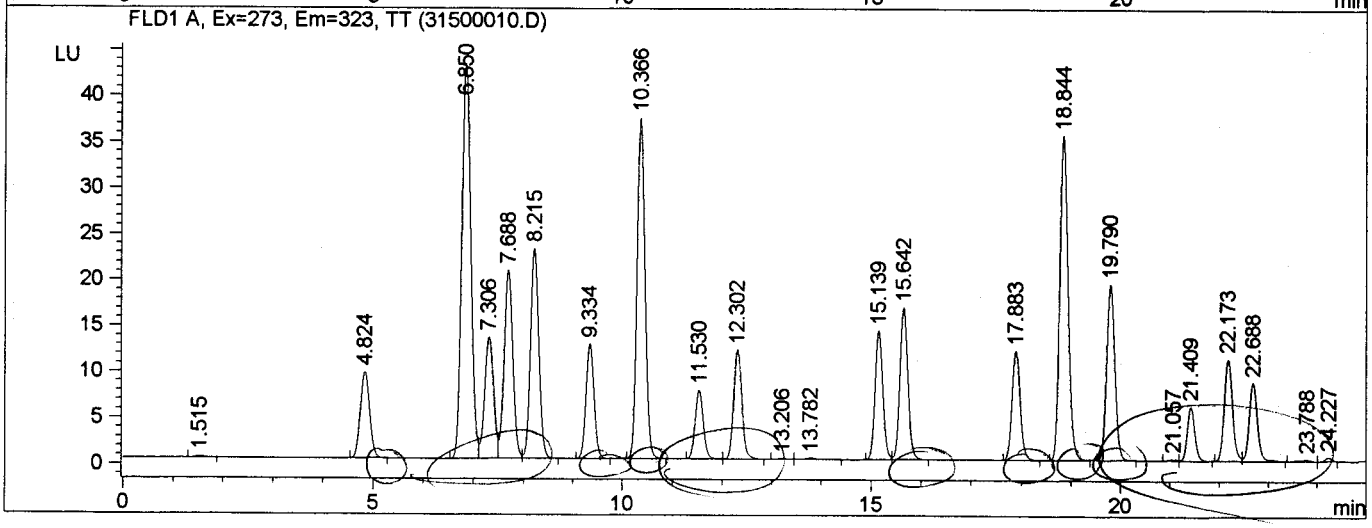
Injection Date : 11/11/2005 3:33:43 PM
Sample Name : ICAL,S1616
Acq. Operator : HPL
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\111105.S
Method : G:\HPLC4\METHODS\8310-279.M
Last changed : 10/6/2005 3:43:10 PM by HPL
HPLC04 METHOD 8310

Seq. Line : 10
Location : Vial 10
Inj : 1
Inj Volume : 10 µl







External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.785	BB	130.69728	75.01619	9804.41228		Naphthalene
6.034	BP	186.95413	104.76555	1.95864e4		Acenaphthylene
6.811	BV	341.22687	115.64580	3.94615e4		1-Methylnaphthalene (UV)
7.267	VV	116.13739	84.38521	9800.27753		2-Methylnaphthalene
7.650	VV	51.12721	204.08565	1.04343e4		Acenaphthene
8.177	VP	126.33327	15.60087	1970.90832		Fluorene
9.296	BB	179.98192	5.50645	991.06175		Phenanthrene
10.328	BB	407.93036	2.65543	1083.23037		Anthracene
11.493	BB	81.93497	24.22788	1985.11100		Fluoranthene
12.265	BV	33.02501	31.84914	1051.81825		Pyrene
15.100	BV	90.69476	11.53825	1046.45885		Benzo(a)anthracene
15.604	VB	133.16466	7.34878	978.59770		Chrysene
17.845	BB	213.27332	9.16097	1953.78962		Benzo(b)fluoranthene
18.806	BB	80.29658	12.29017	986.85871		Benzo(k)fluoranthene
19.752	BB	86.13814	12.54233	1080.37258		Benzo(a)pyrene
21.370	BB	42.19322	46.89259	1978.54929		Dibenz(a,h)anthracene
22.135	BV	70.71999	29.71057	2101.13127		Benzo(g,h,i)perylene
22.650	VB	94.98906	10.56395	1003.45958		Indeno(1,2,3-cd)pyrene

Totals : 1.07298e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.035	BB	560.25836	34.67967	1.94296e4		Acenaphthylene
6.811	BV	122.83937	321.36984	3.94769e4		1-Methylnaphthalene (UV)

Totals : 5.89064e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.824	BB	118.72701	88.21412	1.04734e4		Naphthalene
6.850	BV	526.30212	83.41401	4.39010e4		1-Methylnaphthalene (F)
7.306	VV	161.37877	64.87933	1.04701e4		2-Methylnaphthalene
7.688	VV	244.91475	46.17503	1.13089e4		Acenaphthene
8.215	VB	268.10632	7.69999	2064.41684		Fluorene
9.334	BB	143.65472	7.50963	1078.79354		Phenanthrene
10.366	BB	416.53885	2.87121	1195.96919		Anthracene
11.530	BV	84.56513	24.99737	2113.90598		Fluoranthene
12.302	VB	136.60251	8.33261	1138.25589		Pyrene
15.139	BV	152.71040	7.39230	1128.88063		Benzo(a)anthracene
15.642	VB	187.57530	5.50116	1031.88160		Chrysene

RetTime [min]	Type	Area LU	Amt/Area *s	Amount [ug/l]	Grp	Name
17.883	BB	134.70059	15.43458	2079.04669		Benzo(b)fluoranthene
18.844	BB	398.44977	2.67696	1066.63262		Benzo(k)fluoranthene
19.790	BB	217.90498	5.35721	1167.36365		Benzo(a)pyrene
21.409	VB	63.51436	32.37264	2056.12727		Dibenz(a,h)anthracene
22.173	BV	127.26810	17.16300	2184.30307		Benzo(g,h,i)perylene
22.688	VB	98.13403	10.91504	1071.13686		Indeno(1,2,3-cd)pyrene

Totals : 9.55302e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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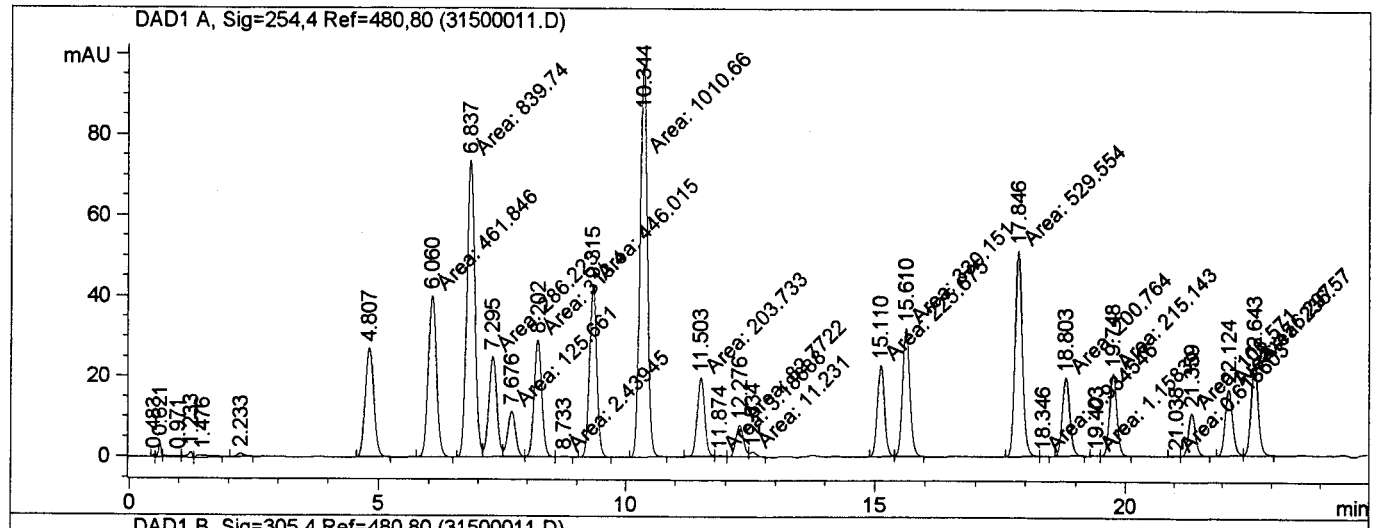
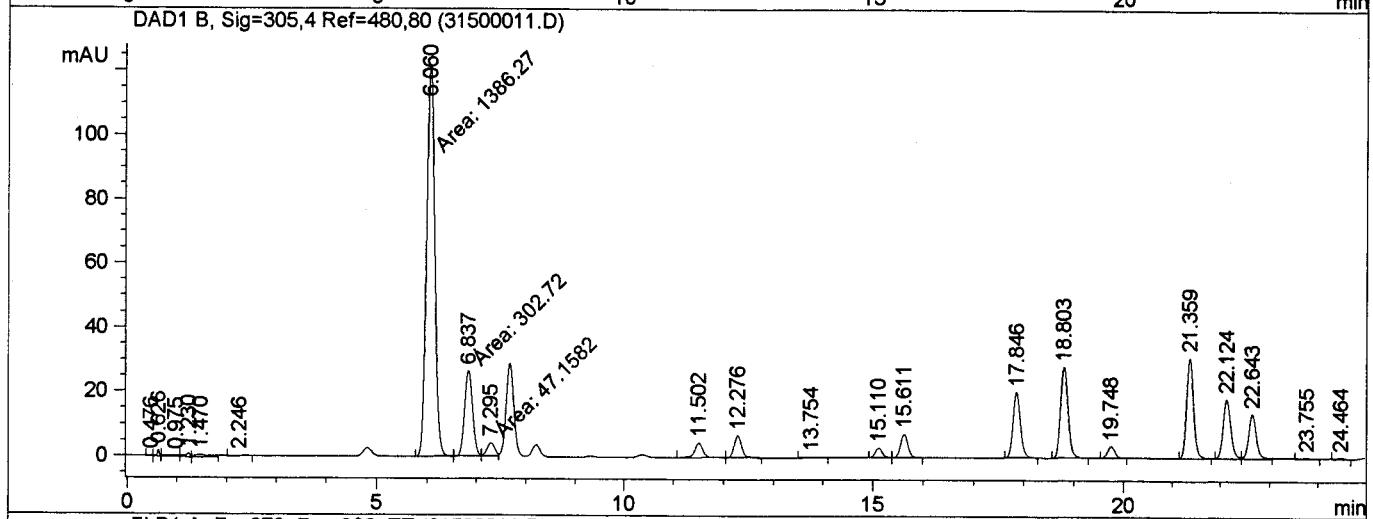
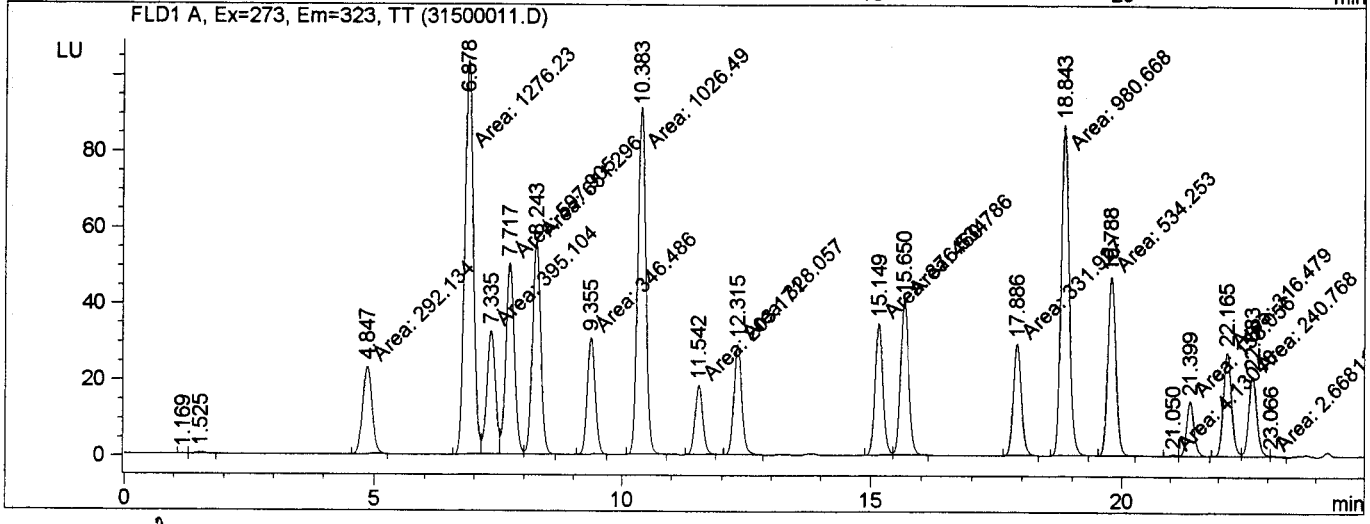
Injection Date	: 11/11/2005 4:05:21 PM	Seq. Line	: 11
Sample Name	: ICAL,S1615	Location	: Vial 11
Acq. Operator	: HPL	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 11/14/2005 3:24:02 PM by HPL (modified after loading)		

HPLC04 METHOD 8310







Chm 14 NOV 2005

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, November 14, 2005 3:23:59 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.807	BB	323.61371	75.88262	2.45567e4		Naphthalene
6.060	FM	461.84637	106.68358	4.92714e4		Acenaphthylene
6.837	MF	839.73962	117.40616	9.85906e4		1-Methylnaphthalene (UV)
7.295	FM	286.22339	85.64761	2.45143e4		2-Methylnaphthalene
7.676	FM	125.66128	205.56332	2.58313e4		Acenaphthene
8.202	FM	313.40030	15.75905	4938.89049		Fluorene
9.315	MM	446.01529	5.61246	2503.24489		Phenanthrene
10.344	MF	1010.66217	2.66779	2696.23356		Anthracene
11.503	MF	203.73349	24.42287	4975.75651		Fluoranthene
12.276	MF	82.77225	31.63674	2618.64393		Pyrene
15.110	MF	225.67519	11.52381	2600.63749		Benzo(a)anthracene
15.610	FM	330.15082	7.41885	2449.33971		Chrysene
17.846	MF	529.55377	9.23486	4890.35241		Benzo(b)fluoranthene
18.803	MM	200.76387	12.32753	2474.92318		Benzo(k)fluoranthene
19.748	FM	215.14328	12.51112	2691.68417		Benzo(a)pyrene
21.359	FM	106.57118	46.71340	4978.30186		Dibenz(a,h)anthracene
22.124	MF	176.29678	29.69153	5234.52195		Benzo(g,h,i)perylene
22.643	MF	236.57013	10.62343	2513.18679		Indeno(1,2,3-cd)pyrene

Totals : 2.68330e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.060	MF	1386.26819	35.15840	4.87390e4		Acenaphthylene
6.837	MF	302.71973	325.90068	9.86566e4		1-Methylnaphthalene (UV)

Totals : 1.47396e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.847	MM	292.13416	89.38284	2.61118e4		Naphthalene
6.878	MF	1276.22900	84.71264	1.08113e5		1-Methylnaphthalene (F)
7.335	MF	395.10352	65.63405	2.59322e4		2-Methylnaphthalene
7.717	FM	597.90503	46.27010	2.76651e4		Acenaphthene
8.243	FM	651.29639	7.82882	5098.88043		Fluorene
9.355	MM	346.48584	7.62343	2641.41109		Phenanthrene
10.383	MF	1026.49353	2.88463	2961.05835		Anthracene
11.542	MF	203.17122	25.12260	5104.18826		Fluoranthene
12.315	FM	328.05682	8.28614	2718.32530		Pyrene
15.149	MF	376.53439	7.41134	2790.62551		Benzo(a)anthracene
15.650	FM	460.78613	5.59125	2576.37103		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.886	MM	331.92670	15.57289	5169.05699		Benzo(b)fluoranthene
18.843	MM	980.66785	2.69598	2643.86535		Benzo(k)fluoranthene
19.788	MM	534.25336	5.37679	2872.56627		Benzo(a)pyrene
21.399	FM	158.05646	32.30976	5106.76669		Dibenz(a,h)anthracene
22.165	MF	316.47900	17.17133	5434.36481		Benzo(g,h,i)perylene
22.683	FM	240.76752	10.92160	2629.56726		Indeno(1,2,3-cd)pyrene

Totals : 2.35569e5

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

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*** End of Report ***

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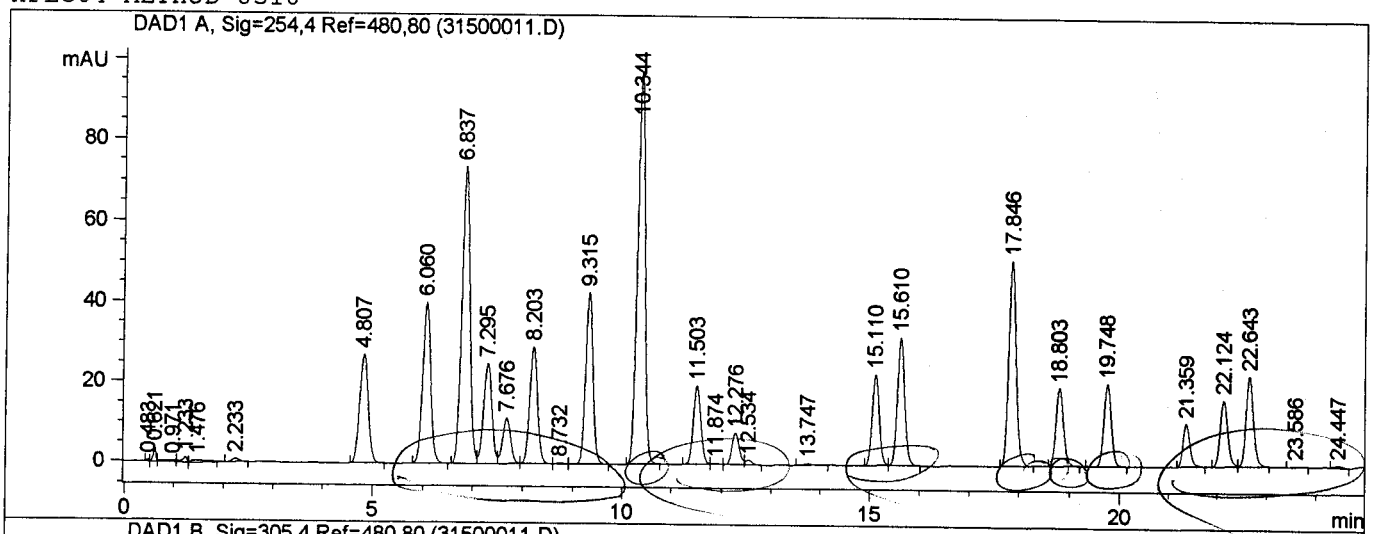
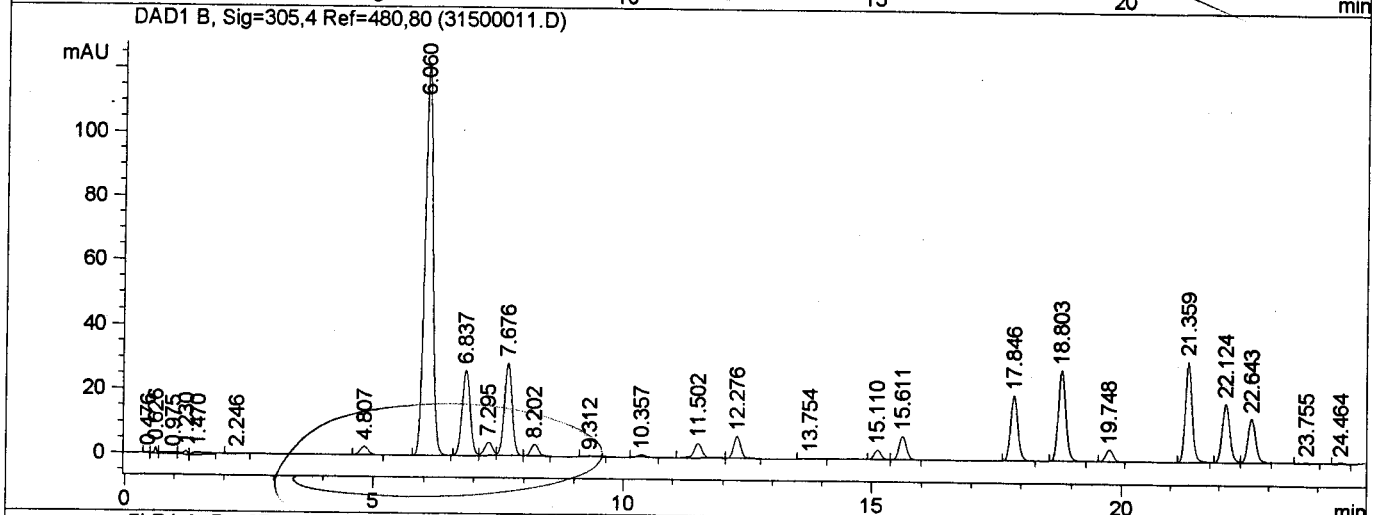
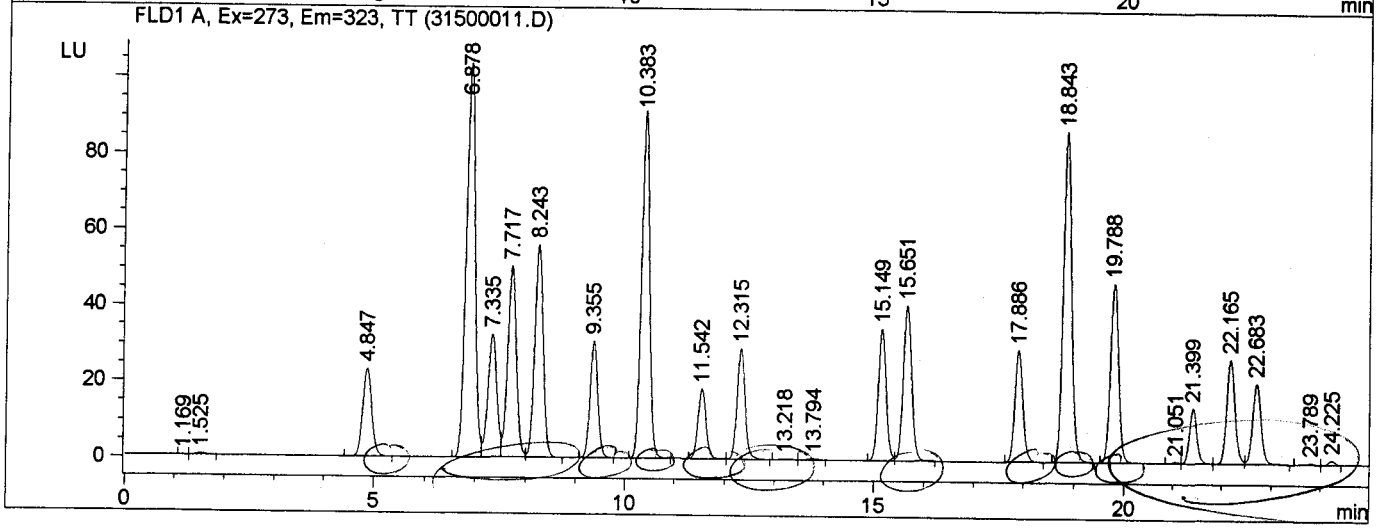
Injection Date	: 11/11/2005 4:05:21 PM	Seq. Line :	11
Sample Name	: ICAL,S1615	Location :	Vial 11
Acq. Operator	: HPL	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Sequence File	: G:\HPLC4\SEQUENCE\111105.S		
Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		

HPLC04 METHOD 8310







External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.807	BB	323.61371	75.58374	2.44599e4		Naphthalene
6.060	BP	460.62192	106.19647	4.89164e4		Acenaphthylene
6.837	BV	839.16504	116.96188	9.81503e4		1-Methylnaphthalene (UV)
7.295	VV	286.60989	85.17556	2.44122e4		2-Methylnaphthalene
7.676	VV	126.50960	205.77821	2.60329e4		Acenaphthene
8.203	VB	314.15155	15.70912	4935.04329		Fluorene
9.315	VP	446.43643	5.59248	2496.68672		Phenanthrene
10.344	PB	1008.37457	2.67826	2700.68981		Anthracene
11.503	BV	203.32158	24.36634	4954.20236		Fluoranthene
12.276	VV	82.54977	31.74842	2620.82491		Pyrene
15.110	BV	225.34038	11.55602	2604.03901		Benzo(a)anthracene
15.610	VB	330.47839	7.39324	2443.30457		Chrysene
17.846	BB	529.04700	9.20114	4867.83559		Benzo(b)fluoranthene
18.803	BB	201.21896	12.30054	2475.10275		Benzo(k)fluoranthene
19.748	BB	216.95140	12.56479	2725.94876		Benzo(a)pyrene
21.359	BP	105.96977	46.64399	4942.85308		Dibenz(a,h)anthracene
22.124	BV	176.37206	29.75989	5248.81290		Benzo(g,h,i)perylene
22.643	VB	236.87695	10.60205	2511.38140		Indeno(1,2,3-cd)pyrene

Totals : 2.67498e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.060	BB	1387.49243	34.98442	4.85406e4		Acenaphthylene
6.837	BV	303.13959	324.70876	9.84321e4		1-Methylnaphthalene (UV)

Totals : 1.46973e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.847	VB	292.85437	89.41991	2.61870e4		Naphthalene
6.878	BV	1275.37854	85.05315	1.08475e5		1-Methylnaphthalene (F)
7.335	VV	394.97131	65.66524	2.59359e4		2-Methylnaphthalene
7.717	VV	600.76691	46.68992	2.80498e4		Acenaphthene
8.243	VB	654.91974	7.81221	5116.37136		Fluorene
9.355	BB	350.65323	7.63570	2677.48265		Phenanthrene
10.383	BB	1033.24744	2.90960	3006.33583		Anthracene
11.542	BV	209.66335	25.13277	5269.41968		Fluoranthene
12.315	VB	334.40729	8.34700	2791.29599		Pyrene
15.149	BV	376.61612	7.46061	2809.78641		Benzo(a)anthracene
15.651	VB	461.88678	5.58732	2580.71093		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.886	BB	331.87186	15.58213	5171.26955		Benzo(b)fluoranthene
18.843	BB	982.09100	2.70441	2655.97343		Benzo(k)fluoranthene
19.788	BB	536.22577	5.41819	2905.37327		Benzo(a)pyrene
21.399	VP	158.06680	32.34222	5112.23135		Dibenz(a,h)anthracene
22.165	VV	316.20016	17.25346	5455.54666		Benzo(g,h,i)perylene
22.683	VB	243.49887	10.94867	2665.98932		Indeno(1,2,3-cd)pyrene

Totals : 2.36865e5

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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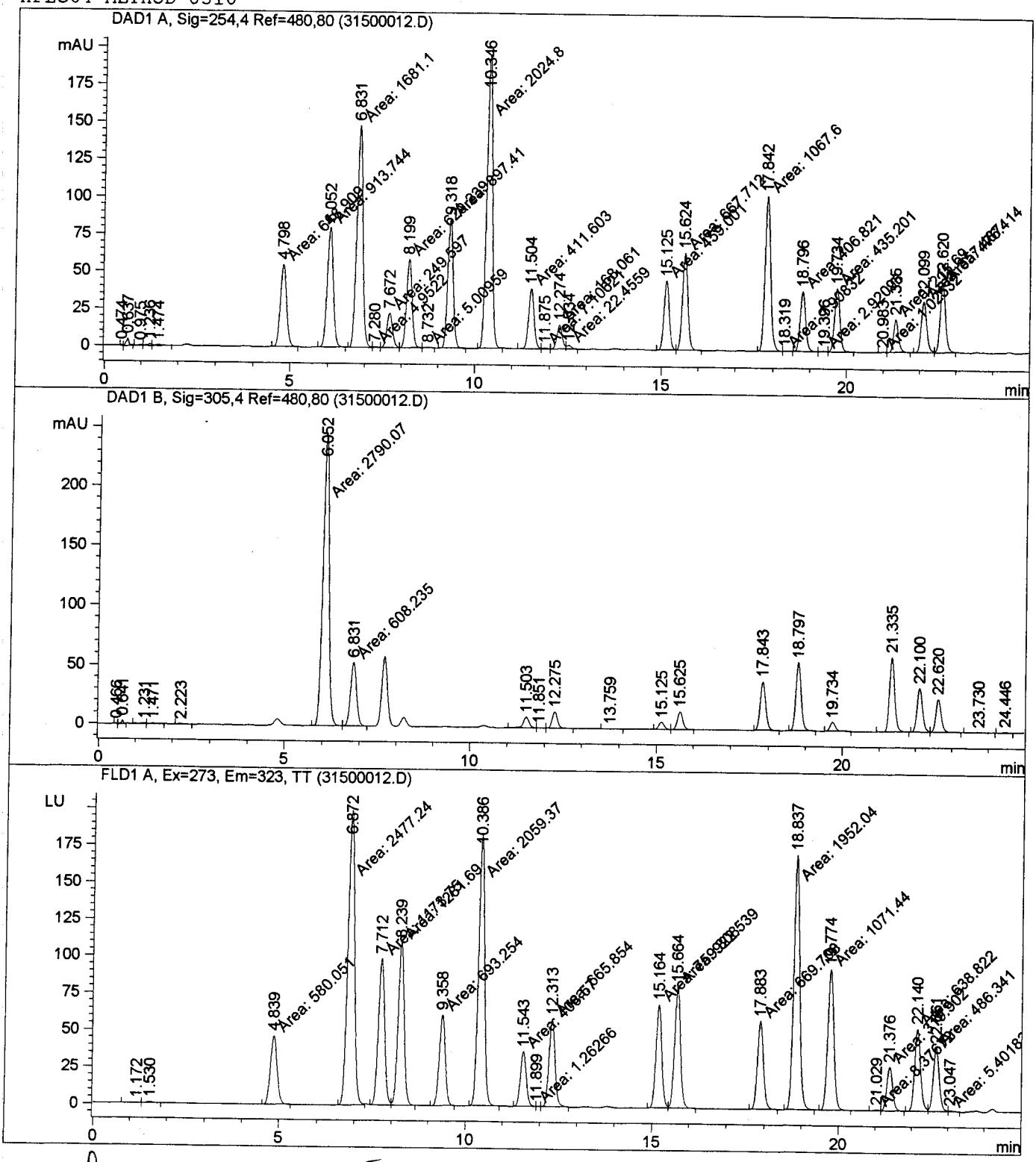
*** End of Report ***

Injection Date	: 11/11/2005 4:36:54 PM	Seq. Line	: 12
Sample Name	: ICAL,S1614	Location	: Vial 12
Acq. Operator	: HPL	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 10/6/2005 3:43:10 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-279.M		
Last changed	: 11/14/2005 4:04:39 PM by HPL (modified after loading)		

HPLC04 METHOD 8310



JM 14 NOV 2005

External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:04:38 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.798	FM	648.90906	77.07999	5.00179e4		Naphthalene
6.052	FM	913.74396	109.19028	9.97720e4		Acenaphthylene
6.831	MF	1681.10107	118.97180	2.00004e5		1-Methylnaphthalene (UV)
7.280	MF	4.95220	79.34361	392.92557		2-Methylnaphthalene
7.672	MF	249.59686	200.00745	4.99212e4		Acenaphthene
8.199	MF	629.23938	15.90162	1.00059e4		Fluorene
9.318	MM	897.40991	5.57725	5005.08079		Phenanthrene
10.346	MF	2024.80078	2.46988	5001.02354		Anthracene
11.504	MF	411.60339	24.33756	1.00174e4		Fluoranthene
12.274	MF	168.06082	29.83443	5013.99819		Pyrene
15.125	MF	459.00107	10.92545	5014.79131		Benzo(a)anthracene
15.624	FM	667.71228	7.50261	5009.58728		Chrysene
17.842	MF	1067.59534	9.37832	1.00122e4		Benzo(b)fluoranthene
18.796	MF	406.82126	12.31843	5011.39735		Benzo(k)fluoranthene
19.734	FM	435.20081	11.51003	5009.17240		Benzo(a)pyrene
21.335	FM	215.69028	46.45435	1.00198e4		Dibenz(a,h)anthracene
22.099	MF	357.48672	28.01144	1.00137e4		Benzo(g,h,i)perylene
22.620	FM	476.41440	10.47141	4988.73112		Indeno(1,2,3-cd)pyrene

Totals : 4.90230e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.052	MF	2790.07104	35.87768	1.00101e5		Acenaphthylene
6.831	MF	608.23541	329.06707	2.00150e5		1-Methylnaphthalene (UV)

Totals : 3.00252e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.839	MM	580.05115	86.06663	4.99230e4		Naphthalene
6.872	MF	2477.23877	78.22578	1.93784e5		1-Methylnaphthalene (F)
7.335		-	-	-		2-Methylnaphthalene
7.712	MF	1173.74512	41.75998	4.90156e4		Acenaphthene
8.239	FM	1281.69031	7.66844	9828.55957		Fluorene
9.358	MM	693.25409	7.21124	4999.22417		Phenanthrene
10.386	MF	2059.37134	2.42912	5002.45295		Anthracene
11.543	MF	408.57028	24.49724	1.00088e4		Fluoranthene
12.313	FM	665.85370	7.52816	5012.65617		Pyrene
15.164	MF	759.30841	6.59405	5006.91434		Benzo(a)anthracene
15.664	FM	922.53937	5.41979	4999.96781		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.883	MF	669.70776	14.95406	1.00148e4		Benzo(b)fluoranthene
18.837	MF	1952.04028	2.55869	4994.66919		Benzo(k)fluoranthene
19.774	FM	1071.43713	4.66813	5001.60824		Benzo(a)pyrene
21.376	FM	319.90201	31.32159	1.00198e4		Dibenz(a,h)anthracene
22.140	MF	638.82190	15.67791	1.00154e4		Benzo(g,h,i)perylene
22.661	MF	486.34088	10.29785	5008.26668		Indeno(1,2,3-cd)pyrene

Totals : 3.82636e5

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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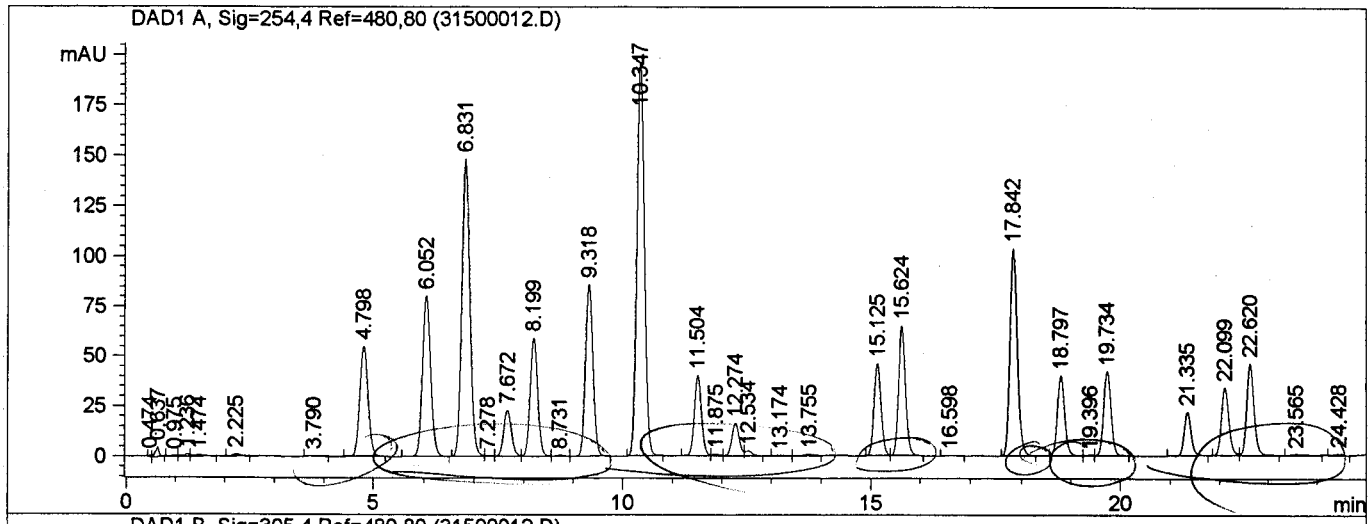
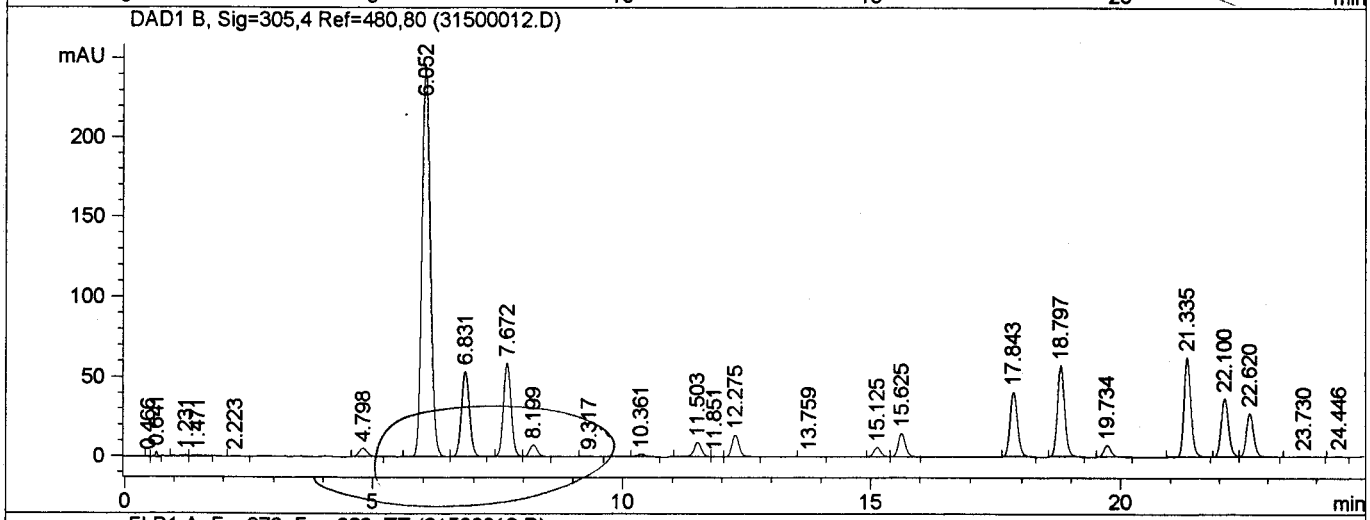
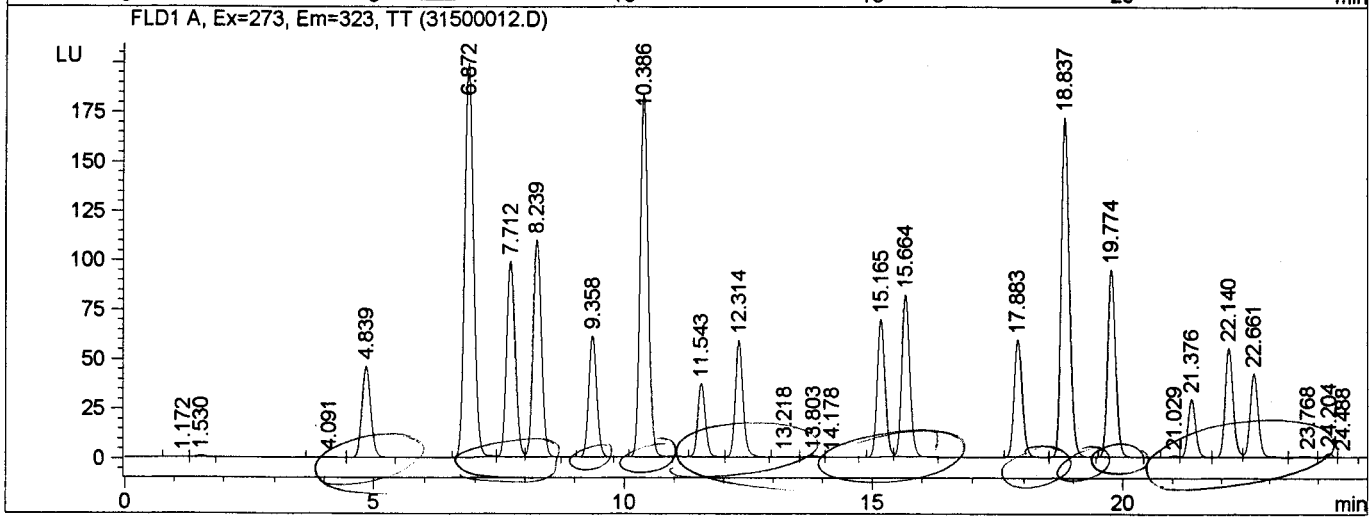
Injection Date : 11/11/2005 4:36:54 PM Seq. Line : 12
Sample Name : ICAL,S1614 Location : Vial 12
Acq. Operator : HPL Inj : 1
Acq. Instrument : HPLC 4 Inj Volume : 10 µl
Sequence File : G:\HPLC4\SEQUENCE\111105.S
Method : G:\HPLC4\METHODS\8310-279.M
Last changed : 10/6/2005 3:43:10 PM by HPL
HPLC04 METHOD 8310







External Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2005 3:37:57 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.798	BB	647.92590	75.77620	4.90974e4		Naphthalene
6.052	BP	914.91376	106.68185	9.76047e4		Acenaphthylene
6.831	BV	1681.13379	117.41358	1.97388e5		1-Methylnaphthalene (UV)
7.278	VV	5.24963	56.31698	295.64317		2-Methylnaphthalene
7.672	VV	250.17746	206.34568	5.16230e4		Acenaphthene
8.199	VV	630.32672	15.74564	9924.89767		Fluorene
9.318	VP	898.17737	5.62171	5049.28914		Phenanthrene
10.347	BB	2027.48340	2.68606	5445.93602		Anthracene
11.504	BV	416.99786	24.41423	1.01807e4		Fluoranthene
12.274	VV	170.79819	31.71372	5416.64596		Pyrene
15.125	BV	458.60211	11.56211	5302.41022		Benzo(a)anthracene
15.624	VB	667.24249	7.40838	4943.18470		Chrysene
17.842	BB	1067.14661	9.21482	9833.56607		Benzo(b)fluoranthene
18.797	BB	406.67978	12.30402	5003.79774		Benzo(k)fluoranthene
19.734	VB	434.84232	12.57220	5466.92541		Benzo(a)pyrene
21.335	BB	219.65565	46.55887	1.02269e4		Dibenz(a,h)anthracene
22.099	BV	363.46048	29.77688	1.08227e4		Benzo(g,h,i)perylene
22.620	VB	493.74603	10.61532	5241.27246		Indeno(1,2,3-cd)pyrene

Totals : 4.88867e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.052	BV	2789.97314	35.08817	9.78950e4		Acenaphthylene
6.831	VB	608.50012	325.85032	1.98280e5		1-Methylnaphthalene (UV)

Totals : 2.96175e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.839	VB	581.45532	89.82798	5.22310e4		Naphthalene
6.872	BV	2484.81372	85.61369	2.12734e5		1-Methylnaphthalene (F)
7.399		-	-	-		2-Methylnaphthalene
7.712	VV	1176.09302	46.86327	5.51156e4		Acenaphthene
8.239	VB	1287.53809	7.85043	1.01077e4		Fluorene
9.358	BB	701.78259	7.67948	5389.32199		Phenanthrene
10.386	BB	2072.21411	2.92260	6056.25380		Anthracene
11.543	BV	421.73749	25.17879	1.06188e4		Fluoranthene
12.314	VB	678.73724	8.35203	5668.83629		Pyrene
15.165	BV	759.86157	7.48411	5686.88802		Benzo(a)anthracene
15.664	VB	925.06207	5.61682	5195.91129		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.883	BV	670.50836	15.63304	1.04821e4		Benzo(b)fluoranthene
18.837	VB	1956.50098	2.71374	5309.43490		Benzo(k)fluoranthene
19.774	BB	1077.07507	5.43915	5858.37331		Benzo(a)pyrene
21.376	VV	323.55270	32.33177	1.04610e4		Dibenz(a,h)anthracene
22.140	VV	640.48981	17.28431	1.10704e4		Benzo(g,h,i)perylene
22.661	VV	493.75449	10.96018	5411.63807		Indeno(1,2,3-cd)pyrene

Totals : 4.17397e5

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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*** End of Report ***

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : HPLC04 Run Name :
Seqnum : 295454249015 Filename : 31500015 Injected : 11-NOV-2005 18:11
Calnum : 295454249001 Caldate : 11-NOV-2005 Caltype :
Standards: S1859

Analyte	Ch	SpkAmt	QuantAmt	Units	%D	Max	Flags
Naphthalene	1	5000.000	5429.003	ug/L	9	15	
Acenaphthylene	1	10000.00	11445.11	ug/L	14	15	
2-Methylnaphthalene	1	20000.00	19958.18	ug/L	0	15	
Acenaphthene	1	5000.000	5730.702	ug/L	15	15	
Fluorene	1	1000.000	1083.110	ug/L	8	15	
Phenanthrene	1	500.0000	527.0522	ug/L	5	15	
Anthracene	1	500.0000	541.6345	ug/L	8	15	
Fluoranthene	1	1000.000	1094.786	ug/L	9	15	
Pyrene	1	500.0000	544.7105	ug/L	9	15	
Benzo(a)anthracene	1	500.0000	539.7436	ug/L	8	15	
Chrysene	1	500.0000	541.2731	ug/L	8	15	
Benzo(b)fluoranthene	1	1000.000	1079.271	ug/L	8	15	
Benzo(k)fluoranthene	1	500.0000	541.4310	ug/L	8	15	
Benzo(a)pyrene	1	500.0000	528.6504	ug/L	6	15	
Dibenz(a,h)anthracene	1	1000.000	1083.391	ug/L	8	15	
Benzo(g,h,i)perylene	1	1000.000	1068.297	ug/L	7	15	
Indeno(1,2,3-cd)pyrene	1	500.0000	543.1120	ug/L	9	15	
Acenaphthylene	2	10000.00	10909.50	ug/L	9	15	
Naphthalene	3	5000.000	5415.454	ug/L	8	15	
2-Methylnaphthalene	3	20000.00	19883.89	ug/L	-1	15	
Acenaphthene	3	5000.000	5651.912	ug/L	13	15	
Fluorene	3	1000.000	1079.813	ug/L	8	15	
Phenanthrene	3	500.0000	519.7808	ug/L	4	15	
Anthracene	3	500.0000	542.4378	ug/L	8	15	
Fluoranthene	3	1000.000	1101.059	ug/L	10	15	
Pyrene	3	500.0000	543.9273	ug/L	9	15	
Benzo(a)anthracene	3	500.0000	536.5568	ug/L	7	15	
Chrysene	3	500.0000	537.3051	ug/L	7	15	
Benzo(b)fluoranthene	3	1000.000	1078.965	ug/L	8	15	
Benzo(k)fluoranthene	3	500.0000	544.3503	ug/L	9	15	
Benzo(a)pyrene	3	500.0000	526.8323	ug/L	5	15	
Dibenz(a,h)anthracene	3	1000.000	1078.278	ug/L	8	15	
Benzo(g,h,i)perylene	3	1000.000	1049.460	ug/L	5	15	
Indeno(1,2,3-cd)pyrene	3	500.0000	542.2205	ug/L	8	15	

ICV SATISFIES SOP. CJM

11/15/05

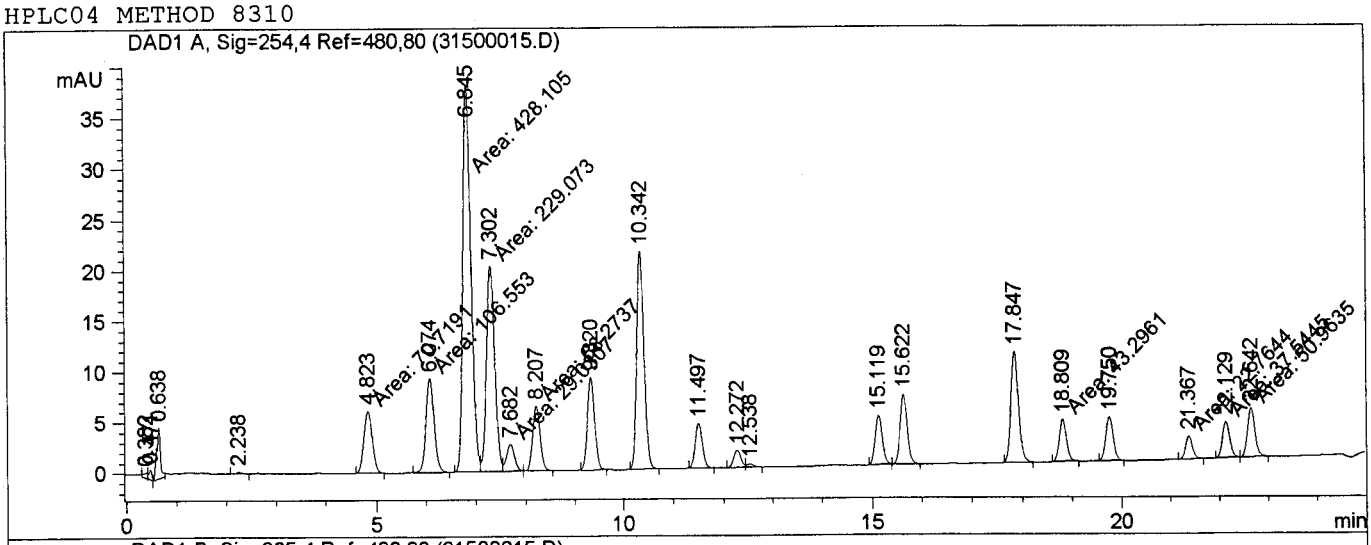
Data File G:\HPLC4\DATA\31500015.D

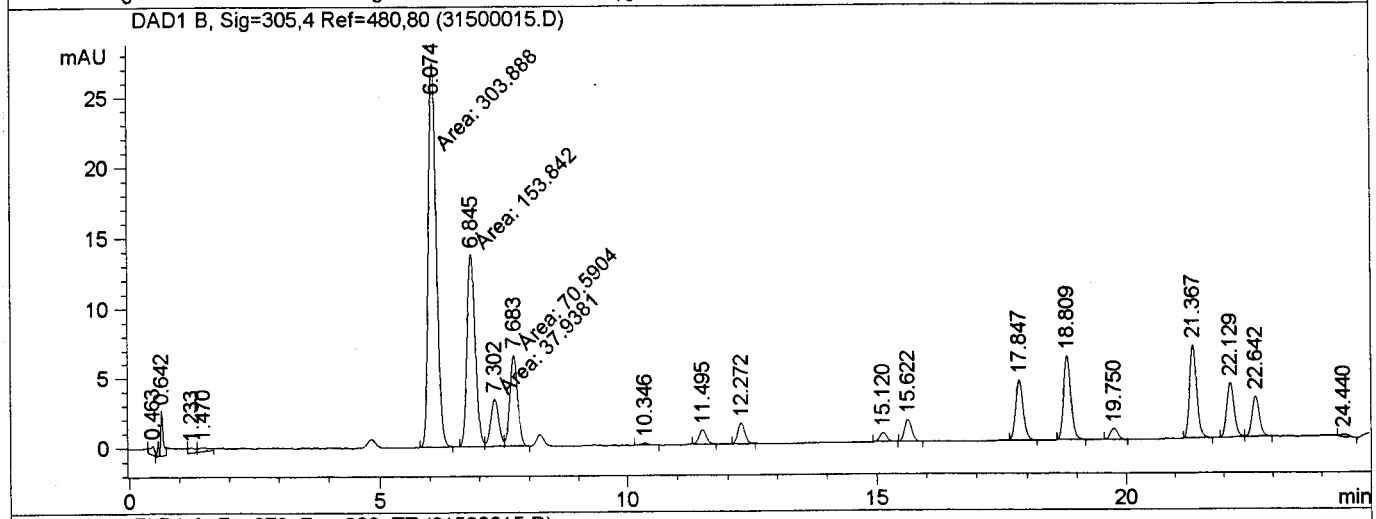
Sample Name: ~~IVC~~, S1859
ICU
14 NOV 2005

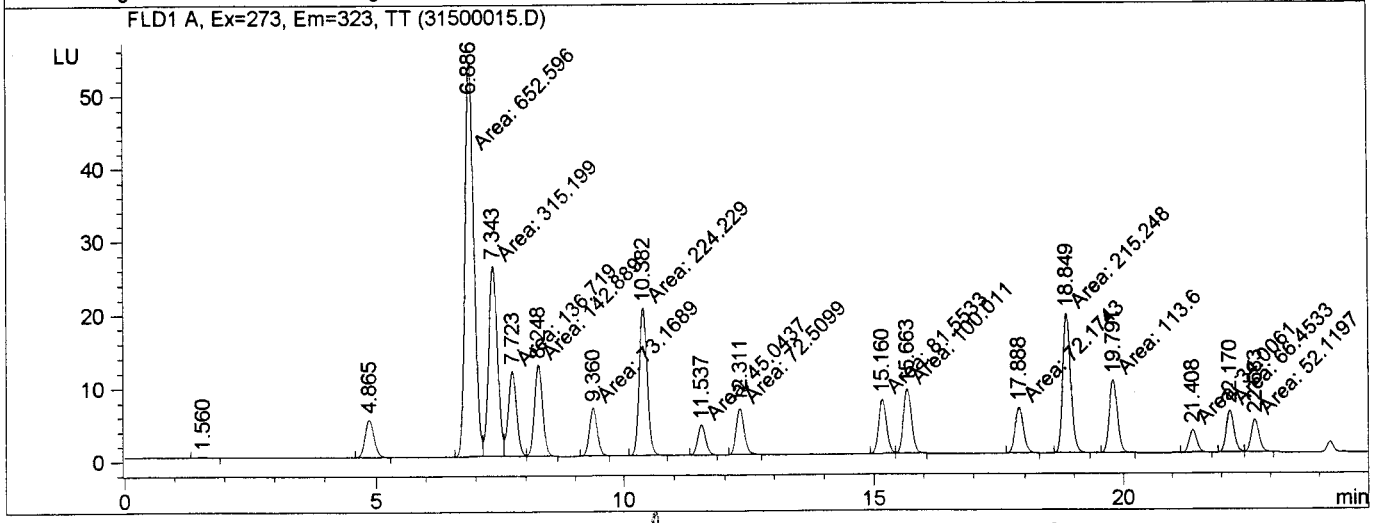
==========

Injection Date : 11/11/2005 6:11:49 PM
Sample Name : ~~IVC~~, S1859
Acq. Operator : HPL ICU
Acq. Instrument : HPLC 4
Acq. Method : G:\HPLC4\METHODS\8310-279.M
Last changed : 10/6/2005 3:43:10 PM by HPL
Analysis Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL
HPLC04 METHOD 8310

Seq. Line : 15
Location : Vial 15
Inj : 1
Inj Volume : 10 µl







ICU SATISFIES SOP. 14 NOV 2005

External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.823	MM	70.71906	76.76860	5429.00305		Naphthalene
6.074	FM	106.55293	107.41243	1.14451e4		Acenaphthylene
6.845	MF	428.10513	118.51450	5.07367e4		1-Methylnaphthalene (UV)
7.302	FM	229.07306	87.12583	1.99582e4		2-Methylnaphthalene
7.682	FM	29.03069	197.40151	5730.70197		Acenaphthene
8.207	FM	68.27369	15.86423	1083.10978		Fluorene
9.320	BB	94.70956	5.56493	527.05223		Phenanthrene
10.342	BB	220.54137	2.45593	541.63448		Anthracene
11.497	BB	44.80906	24.43225	1094.78619		Fluoranthene
12.272	BV	18.00157	30.25906	544.71057		Pyrene
15.119	BV	48.89842	11.03806	539.74359		Benzo(a)anthracene
15.622	VB	71.82996	7.53548	541.27309		Chrysene
17.847	BB	114.57022	9.42017	1079.27109		Benzo(b)fluoranthene
18.809	MM	43.29613	12.50530	541.43109		Benzo(k)fluoranthene
19.750	BB	45.29744	11.67065	528.65038		Benzo(a)pyrene
21.367	MM	22.76437	47.59153	1083.39098		Dibenz(a,h)anthracene
22.129	MF	37.54449	28.45416	1068.29690		Benzo(g,h,i)perylene
22.642	FM	50.96354	10.65687	543.11193		Indeno(1,2,3-cd)pyrene

Totals : 1.03016e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.074	MM	303.88770	35.89979	1.09095e4		Acenaphthylene
6.845	MF	153.84215	328.45864	5.05308e4		1-Methylnaphthalene (UV)

Totals : 6.14403e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.865	BB	63.89994	84.74897	5415.45399		Naphthalene
6.886	MF	652.59564	77.70950	5.07129e4		1-Methylnaphthalene (F)
7.343	MF	315.19867	63.08369	1.98839e4		2-Methylnaphthalene
7.723	FM	136.71896	41.33963	5651.91172		Acenaphthene
8.248	FM	142.88892	7.55701	1079.81251		Fluorene
9.360	MM	73.16887	7.10385	519.78082		Phenanthrene
10.382	MM	224.22946	2.41912	542.43779		Anthracene
11.537	MM	45.04365	24.44426	1101.05871		Fluoranthene
12.311	MM	72.50991	7.50142	543.92732		Pyrene
15.160	MF	81.55329	6.57922	536.55680		Benzo(a)anthracene
15.663	FM	100.01083	5.37247	537.30512		Chrysene

Data File G:\HPLC4\DATA\31500015.D

Sample Name: ~~IVC,~~ S1859
ICV

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.888	MM	72.17432	14.94944	1078.96559		Benzo(b)fluoranthene
18.849	MM	215.24835	2.52894	544.35032		Benzo(k)fluoranthene
19.791	MM	113.59962	4.63762	526.83233		Benzo(a)pyrene
21.408	FM	34.00614	31.70833	1078.27800		Dibenz(a,h)anthracene
22.170	MF	66.45330	15.79245	1049.46037		Benzo(g,h,i)perylene
22.683	MF	52.11966	10.40338	542.22048		Indeno(1,2,3-cd)pyrene

Totals : 9.13451e4

Results obtained with enhanced integrator!

*** End of Report ***

ICU
14NOV2005

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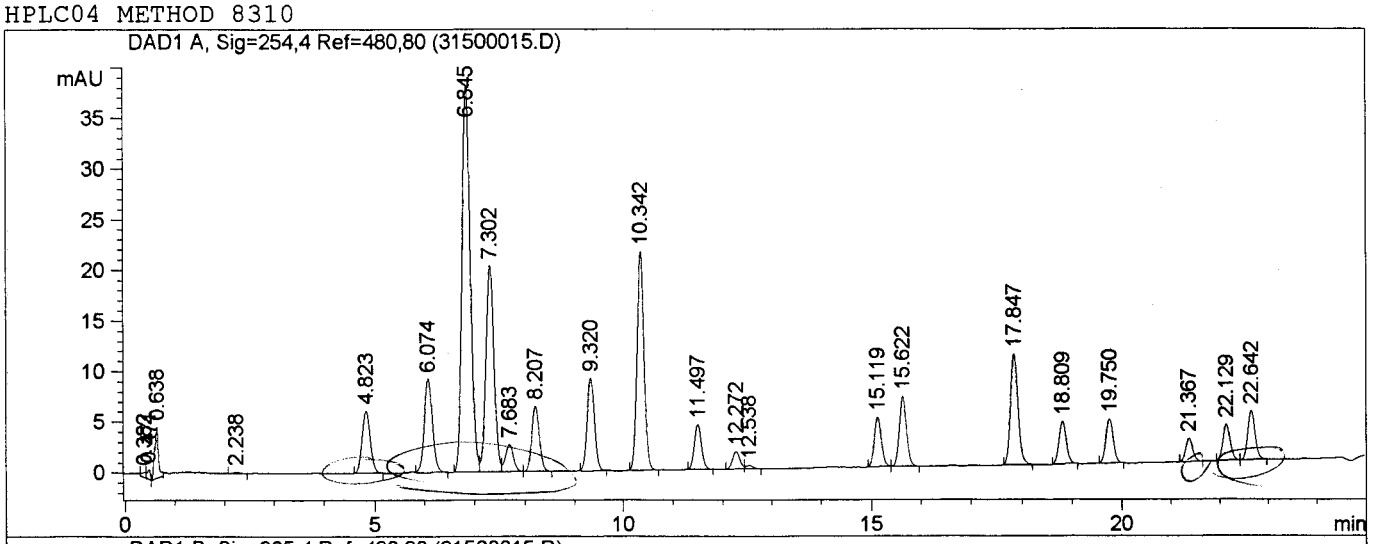
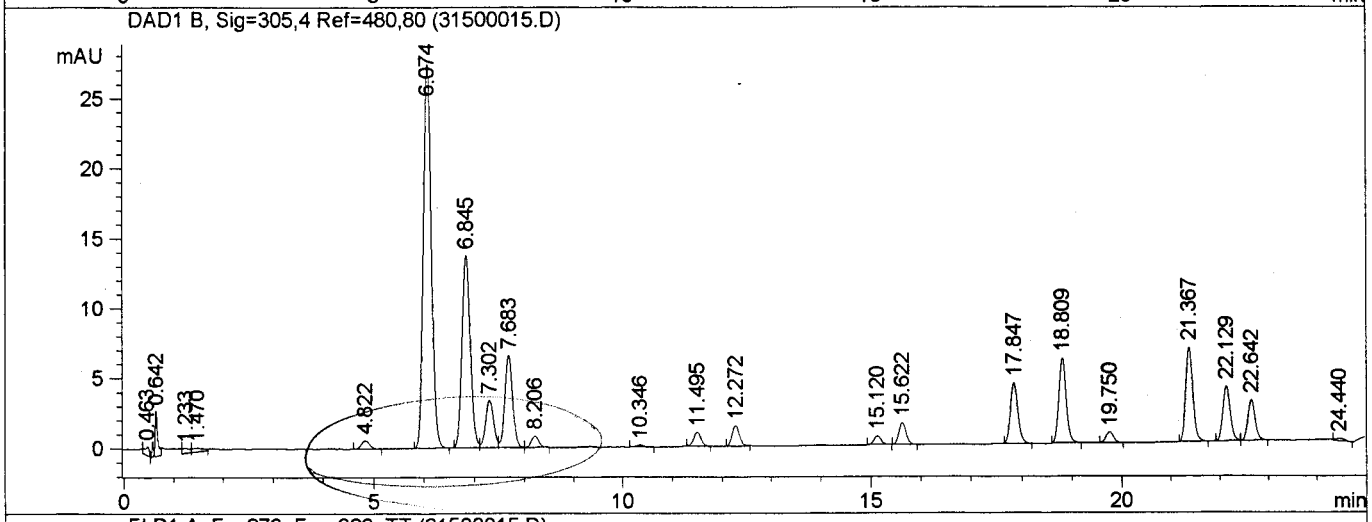
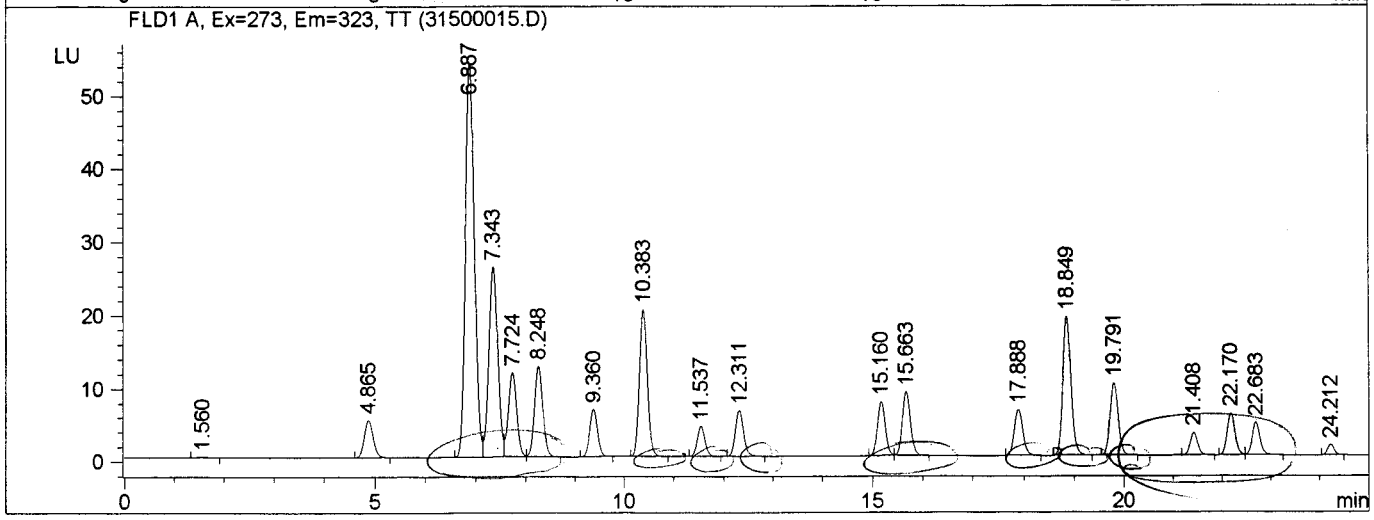
Injection Date : 11/11/2005 6:11:49 PM
Sample Name : ~~IVC~~, S1859
Acq. Operator : HPL ICU
Acq. Instrument : HPLC 4
Acq. Method : G:\HPLC4\METHODS\8310-279.M
Last changed : 10/6/2005 3:43:10 PM by HPL
Analysis Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL
HPLC04 METHOD 8310

Seq. Line : 15
Location : Vial 15
Inj : 1
Inj Volume : 10 µl







ICV

External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.823	BB	71.20418	76.77098	5466.41477		Naphthalene
6.074	BP	105.77290	107.39759	1.13598e4		Acenaphthylene
6.845	BV	427.91833	118.51423	5.07144e4		1-Methylnaphthalene (UV)
7.302	VV	229.16971	87.12590	1.99666e4		2-Methylnaphthalene
7.683	VV	29.39861	197.43842	5804.41603		Acenaphthene
8.207	VB	68.62818	15.86445	1088.74840		Fluorene
9.320	BB	94.70956	5.56493	527.05223		Phenanthrene
10.342	BB	220.54137	2.45593	541.63448		Anthracene
11.497	BB	44.80906	24.43225	1094.78619		Fluoranthene
12.272	BV	18.00157	30.25906	544.71057		Pyrene
15.119	BV	48.89842	11.03806	539.74359		Benzo(a)anthracene
15.622	VB	71.82996	7.53548	541.27309		Chrysene
17.847	BB	114.57022	9.42017	1079.27109		Benzo(b)fluoranthene
18.809	BB	42.82232	12.50761	535.60502		Benzo(k)fluoranthene
19.750	BB	45.29744	11.67065	528.65038		Benzo(a)pyrene
21.367	BP	22.40412	47.61197	1066.70412		Dibenz(a,h)anthracene
22.129	BV	37.21112	28.45829	1058.96487		Benzo(g,h,i)perylene
22.642	VB	50.79019	10.65746	541.29424		Indeno(1,2,3-cd)pyrene

Totals : 1.03000e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.074	BB	304.49255	35.89974	1.09312e4		Acenaphthylene
6.845	BV	154.18639	328.46046	5.06441e4		1-Methylnaphthalene (UV)

Totals : 6.15753e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.865	BB	63.89994	84.74897	5415.45399		Naphthalene
6.887	BV	652.01135	77.70887	5.06671e4		1-Methylnaphthalene (F)
7.343	VV	315.16345	63.08367	1.98817e4		2-Methylnaphthalene
7.724	VV	137.49896	41.34233	5684.52768		Acenaphthene
8.248	VB	143.32822	7.55739	1083.18740		Fluorene
9.360	BB	73.95461	7.10513	525.45697		Phenanthrene
10.383	BB	225.40056	2.41918	545.28395		Anthracene
11.537	BB	45.91750	24.44539	1122.47141		Fluoranthene
12.311	BB	73.37619	7.50177	550.45165		Pyrene
15.160	BV	81.46244	6.57920	535.95756		Benzo(a)anthracene
15.663	VB	100.24127	5.37259	538.55537		Chrysene

Data File G:\HPLC4\DATA\31500015.D Sample Name: ~~IVC~~, S1859
ICV

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.888	BB	72.39547	14.94945	1082.27273		Benzo(b)fluoranthene
18.849	BB	215.84348	2.52903	545.87525		Benzo(k)fluoranthene
19.791	BB	114.32867	4.63784	530.23827		Benzo(a)pyrene
21.408	VB	34.04706	31.70781	1079.55781		Dibenz(a,h)anthracene
22.170	BV	66.46594	15.79242	1049.65840		Benzo(g,h,i)perylene
22.683	VB	52.61345	10.40227	547.29920		Indeno(1,2,3-cd)pyrene
Totals :				9.13850e4		

Results obtained with enhanced integrator!

*** End of Report ***

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185778 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: L IDF : 1.0
Seqnum : 296128934005 File : 08900005 Time : 30-MAR-2006 16:23
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2256

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0153	2500	2924	ug/L	17	15	c+ ***
Acenaphthylene	1	0.0093	0.0100	5000	5234	ug/L	5	15	
Acenaphthene	1	0.0050	0.0059	2500	2887	ug/L	15	15	
Fluorene	1	0.0629	0.0676	500.0	534.8	ug/L	7	15	
Phenanthrene	1	0.1797	0.1935	250.0	268.6	ug/L	7	15	
Anthracene	1	0.4065	0.4596	250.0	280.5	ug/L	12	15	
Fluoranthene	1	0.0408	0.0430	500.0	528.4	ug/L	6	15	
Pyrene	1	0.0329	0.0365	250.0	280.1	ug/L	12	15	
Benzo(a)anthracene	1	0.0901	0.1033	250.0	288.0	ug/L	15	15	
Chrysene	1	0.1322	0.1457	250.0	275.7	ug/L	10	15	
Benzo(b)fluoranthene	1	0.1049	0.1129	500.0	534.6	ug/L	7	15	
Benzo(k)fluoranthene	1	0.0796	0.0870	250.0	276.4	ug/L	11	15	
Benzo(a)pyrene	1	0.0842	0.0935	250.0	276.7	ug/L	11	15	
Dibenz(a,h)anthracene	1	0.0205	0.0228	500.0	556.5	ug/L	11	15	
Benzo(g,h,i)perylene	1	0.0349	0.0365	500.0	528.3	ug/L	6	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.1042	250.0	281.9	ug/L	13	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0085	50000	50590	ug/L	1	15	
Acenaphthylene	2	0.0277	0.0302	5000	5428	ug/L	9	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	50040	ug/L	0	15	
Naphthalene	3	0.0118	0.0125	2500	2599	ug/L	4	15	
Acenaphthene	3	0.0242	0.0259	2500	2643	ug/L	6	15	
Fluorene	3	0.1330	0.1401	500.0	520.3	ug/L	4	15	
Phenanthrene	3	0.1408	0.1509	250.0	263.7	ug/L	5	15	
Anthracene	3	0.4129	0.4646	250.0	279.8	ug/L	12	15	
Fluoranthene	3	0.0409	0.0426	500.0	519.4	ug/L	4	15	
Pyrene	3	0.1339	0.1508	250.0	281.8	ug/L	13	15	
Benzo(a)anthracene	3	0.1518	0.1716	250.0	281.7	ug/L	13	15	
Chrysene	3	0.1854	0.2012	250.0	267.6	ug/L	7	15	
Benzo(b)fluoranthene	3	0.0668	0.0702	500.0	524.4	ug/L	5	15	
Benzo(k)fluoranthene	3	0.3937	0.4259	250.0	265.6	ug/L	6	15	
Benzo(a)pyrene	3	0.2148	0.2400	250.0	276.4	ug/L	11	15	
Dibenz(a,h)anthracene	3	0.0311	0.0338	500.0	542.7	ug/L	9	15	
Benzo(g,h,i)perylene	3	0.0629	0.0666	500.0	529.8	ug/L	6	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.1043	250.0	274.4	ug/L	10	15	
1-Methylnaphthalene (F)	3	0.0131	0.0127	50000	49280	ug/L	-1	15	

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 185778 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: M IDF : 1.0
Seqnum : 296128934016 File : 08900016 Time : 30-MAR-2006 22:11
Cal : 295454249001 Caldate : 11-NOV-2005
Standards: S2255

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0138	5000	5307	ug/L	6	15	
Acenaphthylene	1	0.0093	0.0098	10000	10470	ug/L	5	15	
Acenaphthene	1	0.0050	0.0055	5000	5425	ug/L	9	15	
Fluorene	1	0.0629	0.0660	1000	1047	ug/L	5	15	
Phenanthrene	1	0.1797	0.1875	500.0	521.6	ug/L	4	15	
Anthracene	1	0.4065	0.4442	500.0	545.5	ug/L	9	15	
Fluoranthene	1	0.0408	0.0421	1000	1028	ug/L	3	15	
Pyrene	1	0.0329	0.0360	500.0	544.8	ug/L	9	15	
Benzo(a)anthracene	1	0.0901	0.1015	500.0	560.2	ug/L	12	15	
Chrysene	1	0.1322	0.1420	500.0	535.1	ug/L	7	15	
Benzo(b)fluoranthene	1	0.1049	0.1115	1000	1051	ug/L	5	15	
Benzo(k)fluoranthene	1	0.0796	0.0860	500.0	537.5	ug/L	8	15	
Benzo(a)pyrene	1	0.0842	0.0925	500.0	539.4	ug/L	8	15	
Dibenz(a,h)anthracene	1	0.0205	0.0227	1000	1081	ug/L	8	15	
Benzo(g,h,i)perylene	1	0.0349	0.0369	1000	1050	ug/L	5	15	
Indeno(1,2,3-cd)pyrene	1	0.0913	0.1058	500.0	563.6	ug/L	13	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0083	50000	49180	ug/L	-2	15	
Acenaphthylene	2	0.0277	0.0295	10000	10600	ug/L	6	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	48610	ug/L	-3	15	
Naphthalene	3	0.0118	0.0117	5000	4957	ug/L	-1	15	
Acenaphthene	3	0.0242	0.0245	5000	5061	ug/L	1	15	
Fluorene	3	0.1330	0.1345	1000	1015	ug/L	2	15	
Phenanthrene	3	0.1408	0.1413	500.0	501.4	ug/L	0	15	
Anthracene	3	0.4129	0.4460	500.0	539.4	ug/L	8	15	
Fluoranthene	3	0.0409	0.0409	1000	999.4	ug/L	0	15	
Pyrene	3	0.1339	0.1388	500.0	520.4	ug/L	4	15	
Benzo(a)anthracene	3	0.1518	0.1630	500.0	536.1	ug/L	7	15	
Chrysene	3	0.1854	0.1904	500.0	511.1	ug/L	2	15	
Benzo(b)fluoranthene	3	0.0668	0.0679	1000	1014	ug/L	1	15	
Benzo(k)fluoranthene	3	0.3937	0.4142	500.0	523.4	ug/L	5	15	
Benzo(a)pyrene	3	0.2148	0.2281	500.0	529.0	ug/L	6	15	
Dibenz(a,h)anthracene	3	0.0311	0.0328	1000	1042	ug/L	4	15	
Benzo(g,h,i)perylene	3	0.0629	0.0631	1000	997.0	ug/L	0	15	
Indeno(1,2,3-cd)pyrene	3	0.0953	0.1041	500.0	541.4	ug/L	8	15	
1-Methylnaphthalene (F)	3	0.0131	0.0119	50000	46290	ug/L	-7	15	

SEQUENCE SUMMARY FOR 185778 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 295454249 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 11-NOV-2005
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	31500001	X	PRIMER - 315			11-NOV-2005 10:49	1.0						
002	31500002	X	PRIMER			11-NOV-2005 11:20	1.0						
003	31500003	X	IB - 315			11-NOV-2005 11:52	1.0						
004	31500004	X	IB			11-NOV-2005 12:24	1.0						
005	31500005	X	IB			11-NOV-2005 12:55	1.0						
006	31500006	ICAL				11-NOV-2005 13:27	1.0					1	
007	31500007	ICAL				11-NOV-2005 13:58	1.0					2	
008	31500008	ICAL				11-NOV-2005 14:30	1.0					3	
009	31500009	ICAL				11-NOV-2005 15:02	1.0					4	
010	31500010	ICAL				11-NOV-2005 15:33	1.0					5	
011	31500011	ICAL				11-NOV-2005 16:05	1.0					6	
012	31500012	ICAL				11-NOV-2005 16:36	1.0					7	
013	31500013	X	IB			11-NOV-2005 17:08	1.0						
014	31500014	X	IB			11-NOV-2005 17:40	1.0						
015	31500015	ICV				11-NOV-2005 18:11	1.0		10			8	82
016	31500016	X	ICV			11-NOV-2005 18:43	1.0					8	
017	31500017	X	IB			11-NOV-2005 19:14	1.0						

Stds used: 1=S1620 2=S1619 3=S1618 4=S1617 5=S1616 6=S1615 7=S1614 8=S1859

SEQUENCE SUMMARY FOR 185778 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296128934 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 30-MAR-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	08900001	X	IB - 089			30-MAR-2006 12:54	1.0						
002	08900002	X,CCV	L			30-MAR-2006 13:26	1.0	1.0	5		10	1	
003	08900003	X	IB			30-MAR-2006 15:20	1.0						
004	08900004	X	IB			30-MAR-2006 15:52	1.0						
005	08900005	CCV	L			30-MAR-2006 16:23	1.0	1.0	1		10	1	
006	08900006	X	CCV			30-MAR-2006 16:55	1.0	1.0	3		10	1	
007	08900007	X	IB			30-MAR-2006 17:26	1.0						
008	08900008	BS	QC333614	111829	Water	30-MAR-2006 17:58	1.0	0.002	1		10		
009	08900009	BSD	QC333615	111829	Water	30-MAR-2006 18:30	1.0	0.002	1		10		
010	08900010	BLANK	QC333613	111829	Water	30-MAR-2006 19:01	1.0	0.002			10		
011	08900011	SAMPLE	185778-002	111829	Water	30-MAR-2006 19:33	1.0	0.001905			10		
012	08900012	SAMPLE	185778-003	111829	Water	30-MAR-2006 20:05	1.0	0.001905			10		
013	08900013	SAMPLE	185778-004	111829	Water	30-MAR-2006 20:36	1.0	0.001887			10		
014	08900014	SAMPLE	185830-001	111829	Water	30-MAR-2006 21:08	1.0	0.001887			10		
015	08900015	X	IB			30-MAR-2006 21:39	1.0						83
016	08900016	CCV	M			30-MAR-2006 22:11	1.0	1.0			10	2	
017	08900017	X,CCV	M			30-MAR-2006 22:43	1.0	1.0			10	3	
018	08900018	X	IB			30-MAR-2006 23:14	1.0						

Stds used: 1=S2256 2=S2255 3=S3051

REPORTING SUMMARY FOR 185778 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185778-002	Naphthalene	HPLC04	3	03/30/06 19:33
185778-002	Acenaphthylene	HPLC04	1	03/30/06 19:33
185778-002	Acenaphthene	HPLC04	1	03/30/06 19:33
185778-002	Fluorene	HPLC04	1	03/30/06 19:33
185778-002	Phenanthrene	HPLC04	3	03/30/06 19:33
185778-002	Anthracene	HPLC04	3	03/30/06 19:33
185778-002	Fluoranthene	HPLC04	3	03/30/06 19:33
185778-002	Pyrene	HPLC04	3	03/30/06 19:33
185778-002	Benzo(a)anthracene	HPLC04	3	03/30/06 19:33
185778-002	Chrysene	HPLC04	3	03/30/06 19:33
185778-002	Benzo(b)fluoranthene	HPLC04	3	03/30/06 19:33
185778-002	Benzo(k)fluoranthene	HPLC04	3	03/30/06 19:33
185778-002	Benzo(a)pyrene	HPLC04	3	03/30/06 19:33
185778-002	Dibenz(a,h)anthracene	HPLC04	3	03/30/06 19:33
185778-002	Benzo(g,h,i)perylene	HPLC04	3	03/30/06 19:33
185778-002	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/30/06 19:33
185778-002	1-Methylnaphthalene (UV)	HPLC04	1	03/30/06 19:33
185778-002	1-Methylnaphthalene (F)	HPLC04	3	03/30/06 19:33
185778-003	Naphthalene	HPLC04	3	03/30/06 20:05
185778-003	Acenaphthylene	HPLC04	1	03/30/06 20:05
185778-003	Acenaphthene	HPLC04	1	03/30/06 20:05
185778-003	Fluorene	HPLC04	1	03/30/06 20:05
185778-003	Phenanthrene	HPLC04	3	03/30/06 20:05
185778-003	Anthracene	HPLC04	3	03/30/06 20:05
185778-003	Fluoranthene	HPLC04	3	03/30/06 20:05
185778-003	Pyrene	HPLC04	3	03/30/06 20:05
185778-003	Benzo(a)anthracene	HPLC04	3	03/30/06 20:05
185778-003	Chrysene	HPLC04	3	03/30/06 20:05
185778-003	Benzo(b)fluoranthene	HPLC04	3	03/30/06 20:05
185778-003	Benzo(k)fluoranthene	HPLC04	3	03/30/06 20:05
185778-003	Benzo(a)pyrene	HPLC04	3	03/30/06 20:05
185778-003	Dibenz(a,h)anthracene	HPLC04	3	03/30/06 20:05
185778-003	Benzo(g,h,i)perylene	HPLC04	3	03/30/06 20:05
185778-003	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/30/06 20:05
185778-003	1-Methylnaphthalene (UV)	HPLC04	1	03/30/06 20:05
185778-003	1-Methylnaphthalene (F)	HPLC04	3	03/30/06 20:05
185778-004	Naphthalene	HPLC04	3	03/30/06 20:36
185778-004	Acenaphthylene	HPLC04	1	03/30/06 20:36
185778-004	Acenaphthene	HPLC04	1	03/30/06 20:36
185778-004	Fluorene	HPLC04	1	03/30/06 20:36
185778-004	Phenanthrene	HPLC04	3	03/30/06 20:36
185778-004	Anthracene	HPLC04	3	03/30/06 20:36
185778-004	Fluoranthene	HPLC04	3	03/30/06 20:36
185778-004	Pyrene	HPLC04	3	03/30/06 20:36
185778-004	Benzo(a)anthracene	HPLC04	3	03/30/06 20:36
185778-004	Chrysene	HPLC04	3	03/30/06 20:36
185778-004	Benzo(b)fluoranthene	HPLC04	3	03/30/06 20:36
185778-004	Benzo(k)fluoranthene	HPLC04	3	03/30/06 20:36
185778-004	Benzo(a)pyrene	HPLC04	3	03/30/06 20:36
185778-004	Dibenz(a,h)anthracene	HPLC04	3	03/30/06 20:36
185778-004	Benzo(g,h,i)perylene	HPLC04	3	03/30/06 20:36
185778-004	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/30/06 20:36

REPORTING SUMMARY FOR 185778 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
185778-004	1-Methylnaphthalene (UV)	HPLC04	1	03/30/06 20:36
185778-004	1-Methylnaphthalene (F)	HPLC04	3	03/30/06 20:36
QC333613	Naphthalene	HPLC04	3	03/30/06 19:01
QC333613	Acenaphthylene	HPLC04	1	03/30/06 19:01
QC333613	Acenaphthene	HPLC04	1	03/30/06 19:01
QC333613	Fluorene	HPLC04	1	03/30/06 19:01
QC333613	Phenanthrene	HPLC04	3	03/30/06 19:01
QC333613	Anthracene	HPLC04	3	03/30/06 19:01
QC333613	Fluoranthene	HPLC04	3	03/30/06 19:01
QC333613	Pyrene	HPLC04	3	03/30/06 19:01
QC333613	Benzo(a)anthracene	HPLC04	3	03/30/06 19:01
QC333613	Chrysene	HPLC04	3	03/30/06 19:01
QC333613	Benzo(b)fluoranthene	HPLC04	3	03/30/06 19:01
QC333613	Benzo(k)fluoranthene	HPLC04	3	03/30/06 19:01
QC333613	Benzo(a)pyrene	HPLC04	3	03/30/06 19:01
QC333613	Dibenz(a,h)anthracene	HPLC04	3	03/30/06 19:01
QC333613	Benzo(g,h,i)perylene	HPLC04	3	03/30/06 19:01
QC333613	Indeno(1,2,3-cd)pyrene	HPLC04	3	03/30/06 19:01
QC333613	1-Methylnaphthalene (UV)	HPLC04	1	03/30/06 19:01
QC333613	1-Methylnaphthalene (F)	HPLC04	3	03/30/06 19:01
QC333614	Naphthalene	HPLC04	3	03/30/06 17:58
QC333614	Fluorene	HPLC04	1	03/30/06 17:58
QC333614	Pyrene	HPLC04	3	03/30/06 17:58
QC333614	Benzo(a)pyrene	HPLC04	3	03/30/06 17:58
QC333614	1-Methylnaphthalene (UV)	HPLC04	1	03/30/06 17:58
QC333614	1-Methylnaphthalene (F)	HPLC04	3	03/30/06 17:58
QC333615	Naphthalene	HPLC04	3	03/30/06 18:30
QC333615	Fluorene	HPLC04	1	03/30/06 18:30
QC333615	Pyrene	HPLC04	3	03/30/06 18:30
QC333615	Benzo(a)pyrene	HPLC04	3	03/30/06 18:30
QC333615	1-Methylnaphthalene (UV)	HPLC04	1	03/30/06 18:30
QC333615	1-Methylnaphthalene (F)	HPLC04	3	03/30/06 18:30

Curtis & Tompkins Laboratories **Sample Preparation Summary** **30-MAR-2006 12:29**

Batch Number : 111829
Date Extracted: 29-MAR-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : 8310
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S2842A
Spike #2 ID : S2884A
Spike #3 ID :
SOP Version : 8310w_rv6

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185778-002		Treadwell & Rollo	Water	1050	mL	2	0.001905	1	7	.1	0		8310		
185778-003		Treadwell & Rollo	Water	1050	mL	2	0.001905	1	7	.1	0		8310		
185778-004		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	7	.1	0		8310		
185830-001		SOMA Environmental Engineering	Water	1060	mL	2	0.001887	1	7	.1	0		8310		
QC333613	BLANK		Water	1000	mL	2	0.002000	1		.1	0		8310		
QC333614	BS		Water	1000	mL	2	0.002000	1		.1	1		8310		
QC333615	BSD		Water	1000	mL	2	0.002000	1		.1	1		8310		

Prep Chemist: [signature] Reviewed By: [signature] Date: 3/30/06

Relinquished By: [signature] Received By: [signature] Date: 30MAR2006

Curtis & Tompkins, Ltd

8310 WATER PREP LOG

BK2190

LIMS Batch No: 111829
LIMS Analysis: 8310
Extracted by: JDM
Date Extracted: 29 Mar 06

Extraction Method:
☐ EPA 3510c sep. funnel
☒ EPA 3520c cont. L/L
☐ _____

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Cleanup Method (if needed):
☐ EPA 3640a GPC
☐ EPA 3630c Silica Gel

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
185778-002A	1050	7	2.0		
03	1050				
04	1060				
185830-001J	1060				
MB QC333613	1000	NA			
BS 14					
BSD 15					

CL 3/31/06

0.1 mL of surrogate solution was added to all samples
1.0 mL of matrix spiking solution was added to all spikes
☒ Samples continuously extracted with about 450 mL of CH_2Cl_2
Extraction Start Time: 1346
Extraction End Time: 0746
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2
Extracts filtered through baked, CH2Cl2-rinsed powdered Na2SO4
Exchanged 2x with Acetonitrile
Concentrated: ☑ to volumes as noted above ☐ to clean-up volume
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Silica Gel
Extracts filtered with 0.45 um PTFE syringe filter

	Mfg & Lot# / LIMS # / Time	Date/ Initials
	S2842A	JDM 3/29/06
	S2884A	
	EM46060	
	1346	
	0746	DLM 3/30/06
	N/A	SFL 3/30/06
	EM45186332	
	EM46216	
	N/A	
	WHATMAN L727	

Jessica Chu 3/29/06
Extraction Chemist Date

Contined from Page ____
Continued on Page ____

CL 3/30/06
Reviewed by Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8310 Water 3520C
As of 04/13/06

Analyte	Units	HPLC02 1	HPLC02 2	HPLC02 3	HPLC04 1	HPLC04 2	HPLC04 3
Naphthalene	ug/L	0.16		0.069	0.097		0.10
Acenaphthylene	ug/L	0.37	0.29		0.24	0.16	
2-Methylnaphthalene	ug/L				0.072		0.10
Acenaphthene	ug/L	0.36		0.098	0.33		0.085
Fluorene	ug/L	0.051		0.054	0.028		0.017
Phenanthrene	ug/L	0.030		0.0086	0.0082		0.0078
Anthracene	ug/L	0.021		0.0077	0.024		0.023
Fluoranthene	ug/L	0.13		0.011	0.042		0.013
Pyrene	ug/L	0.066		0.0048	0.036		0.010
Benzo(a)anthracene	ug/L	0.044		0.0046	0.022		0.013
Chrysene	ug/L	0.036		0.0059	0.021		0.0096
Benzo(b)fluoranthene	ug/L	0.032		0.0081	0.015		0.013
Benzo(k)fluoranthene	ug/L	0.037		0.0044	0.013		0.0080
Benzo(a)pyrene	ug/L	0.055		0.0045	0.017		0.025
Dibenz(a,h)anthracene	ug/L	0.12		0.026	0.037		0.025
Benzo(g,h,i)perylene	ug/L	0.066		0.014	0.047		0.017
Indeno(1,2,3-cd)pyrene	ug/L	0.065		0.011	0.013		0.0096
1-Methylnaphthalene (UV)	ug/L	1.2	1.9		9.0	9.1	
1-Methylnaphthalene (F)	ug/L			0.72			9.8

GENERAL CHEMISTRY

Curtis & Tompkins, Ltd.

Surfactants (MBAS)

Lab #:	185778	Location:	Presidio
Client:	Treadwell & Rollo	Analysis:	EPA 425.1
Project#:	2893.04.51		
Analyte:	Surfactants (MBAS)	Batch#:	111664
Field ID:	DAESP03	Sampled:	03/24/06 09:50
Matrix:	Water	Received:	03/24/06
Units:	mg/L	Analyzed:	03/24/06 00:00

Type	Lab ID	Result	RL	Diln Fac
SAMPLE	185778-005	ND	1.0	10.00
BLANK	QC332981	ND	0.10	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Surfactants (MBAS)

Lab #:	185778	Location:	Presidio
Client:	Treadwell & Rollo	Analysis:	EPA 425.1
Project#:	2893.04.51		
Analyte:	Surfactants (MBAS)	Diln Fac:	1.000
Matrix:	Water	Batch#:	111664
Units:	mg/L	Analyzed:	03/24/06 00:00

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC332982	1.000	0.9436	94	80-120		
BSD	QC332983	1.000	0.9949	99	80-120	5	20

RPD= Relative Percent Difference

Analysis:	**Surfactants (MBAS)**	Batch#:	**111664**	Analyst:	SY
Method:	**EPA 425.1** / SMWW 5540c	Analysis Date:	**3/24/2006**	**Reviewed by/ Date:**	_____
Matrix:	Water	Instrument:	**Perkin-Elmer Spec**		
SOP#:	MBAS_rv4.doc				

Initial Calibration Data Calibrated: 2/09/06

ug/100mL	ABS	RF
0	0.0006	
9.6	0.0278	0.00290
28.8	0.0627	0.00218
48.0	0.1038	0.00216
67.2	0.1331	0.00198
105.6	0.2309	0.00219

Correlation Coefficient =	0.9962
Avg Response Factor =	0.00228
%RSD =	17.7

Note: Average response used to calculate sample results

Calibration Verification Data

	vol (mL)	IDF	ABS	Conc.(mg/L)	TV (mg/L)	Recovery	Limits
ICV	100	1	0.2152	0.9436	1	94.4%	90-110%
ICB	100	1	0.0009	ND			
CCV	100	1	0.2226	0.9761	1	97.6%	90-110%
CCB	100	1	0.0114	ND			

Analysis: **Surfactants (MBAS)**
Method: **EPA 425.1** / SMWW 5540c

Batch#: 111664
Analysis Date: 3/24/2006

Sample & Batch QC Data

C&T ID	vol (mL)	IDF	ABS	**Report** (mg/L)	RL (mg/L)	Spike Added (mL)	Spike Std Conc. (mg/L)	QC TV (mg/L)	**% Recovery**	**%RPD**
MB	100	1	0.0031	**ND**	0.1					
BS	100	1	0.2152	**0.9436**	0.1	10	10	1	**94**	
BSD	100	1	0.2269	**0.9949**	0.1	10	10	1	**99**	**5**
185778-005	100	10	0.0149	**ND**	1					

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	80 - 120
MS/ MSD	30	56 - 120

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Treadwell MBAS

Date : 3/24/2006 Time : 14:13:22

Concentration Results

Date: 3/24/2006 Time: 2:07:51 PM
Instrument: PerkinElmer Lambda 25 Serial No: 101N5091105
Method: MBAS1205
Ordinate mode: Single wavelength
Slit: UV/VIS: 1.00 nm
Baseline: No correction (0.00 0.00)
Result Filename: 185511.RCO
Autozero performed: 3/24/2006 2:07:48 PM
Analyst: 0.00 [analyst]

Wavelength(s)		Sample ID	Ordinate	Factor	Concentration		Sample Info
652.0	0.0	icb	0.0009	1.0000	0.4304	ug/100ml	
652.0	0.0	icv-bs	0.2152	1.0000	100.67	ug/100ml	
652.0	0.0	bsd	0.2269	1.0000	106.15	ug/100ml	
652.0	0.0	sample1	0.0149	1.0000	6.9935	ug/100ml	185778-1 ×10
652.0	0.0	mb	0.0031	1.0000	1.4689	ug/100ml	
652.0	0.0	ccv	0.2226	1.0000	104.15	ug/100ml	
652.0	0.0	ccb	0.0114	1.0000	5.3095	ug/100ml	

CALIBRATION

Date: 3/24/2006 Time: 2:01:33 PM
Instrument: PerkinElmer Lambda 25 Serial No: 101N5091105
Method: MBAS1205
Ordinate mode: Single wavelength
Baseline: No correction (0.00 0.00)
Analyst:

Wavelength(s)		Sample ID	Concentration		Ord. value	Comment
652.0	0.0	applic44.A01	0.0000	ug/100ml	0.0006	
652.0	0.0	applic44.A02	9.6000	ug/100ml	0.0278	
652.0	0.0	applic44.A03	28.800	ug/100ml	0.0627	
652.0	0.0	applic44.A04	48.000	ug/100ml	0.1038	
652.0	0.0	applic44.A05	67.200	ug/100ml	0.1331	
652.0	0.0	applic44.A06	105.60	ug/100ml	0.2309	

Equation: y = 2.137693e-03 * x

Residual error: 0.006236
Correlation coefficient: 0.997175

PROJECT MBAS Treadwell & Rollo

Notebook No. 2289

Continued From Page

Batch # 111644 Analyzed March-24-06

Sample ID	vol(ml)	Abs / CB
ICB/A	100	0.0009
MB	100	0.0031
BS / ICV	100	0.2152
BSD	100	0.2269
185778-5 x10	10	0.0149
CCV	100	0.2226
CCB	100	0.0114

ICV/BS, BSD → spiked with 10 ml of Linear Alkyl/Benzene Sulfonate LAS Std 10mg/ml (52805 Exp 30-Jun-06)

Continued on Page

Read and Understood By

4-5-06 — Signed — Date

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4-5-06 — Signed — Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 111664
Date Started: 24-MAR-2006
Batched by : Sunitha Yerragodula

Analysis : MBAS
Bgroup : N/A
Department : Wet Chemistry

Sample	Type	Client	Matrix	Analyses	Due Date
185778-005		Treadwell & Rollo	Water	MBAS	05-APR-2006
QC332981	BLANK		Water	MBAS	
QC332982	BS		Water	MBAS	
QC332983	BSD		Water	MBAS	

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 185866

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.04.51
Location: Presidio

Sample ID	Lab ID
WT032906	185866-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 4/24/06
Operations Manager

Signature: _____ Date: 4/21/06
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**185866**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**03/29/06**
Samples Received:	**03/29/06**

This hardcopy data package contains sample and QC results for one water sample, requested for the above referenced project on 03/29/06. The sample was received cold and intact.

Metals (EPA 6020 and EPA 7470A):
No analytical problems were encountered.

Total Cyanide (EPA 335.2):
No analytical problems were encountered.

Total Oil & Grease (HEM) (EPA 1664A):
Matrix spikes were not performed for this analysis due to insufficient sample volume. No analytical problems were encountered.

Dissolved Sulfide (EPA 376.2):
High recoveries were observed for dissolved sulfide in the MS/MSD of WT032906 (lab # 185866-001); the LCS was within limits, and this analyte was not detected at or above the RL in the associated sample. No other analytical problems were encountered.

pH (EPA 9040B):
No analytical problems were encountered.

Chain of Custody

185866

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415.955.9040/Fax: 415.955.9041
☐ 501 14th Street, Third Floor, Oakland CA 94612 Ph: 510.874.4500/Fax: 510.874.4507
☐ 777 Campus Commons Rd., Suite 200, Sacramento, CA 95825 Ph: 916.565.7412/Fax: 916.565.7412

Site Name: Fresno
Job Number: 2893
Project Manager\Contact: 316
Samplers: SAB
Recorder (Signature Required):

Turnaround Time: Standard

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: Total Metals	Cyanide	Hg	Dissolved Metals	Total Oil+Grease	Recoverable Oil+Grease					Silica gel clean-up	Hold	Remarks
-1 WT032906	3/29/06	1341			X					6		X	X	X	X	X	X							Don't run total Recoverable O+G if Total O+G is ND.

Relinquished by: (Signature)	Date 3/29/06	Time 1342	Received by: (Signature)	Date 3/29/06	Time 1342
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name):
Laboratory Comments/Notes: As, Cd, Cr, Cu, Pb, Hg, Ni, Silver, Zn

Method of Shipment: ☐ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS ☐ Hand Carried ☒ Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 003911

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 185866 Date Received: 3/29/06 Number of Coolers: 1
Client: Treadwell+Rollo Project: Presidio

A. Preliminary Examination Phase
Date Opened: 3/29/06 By (print): John P. (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.)?..... YES (NO)
   If YES, enter carrier name and airbill number:
2. Were custody seals on outside of cooler?..... YES (NO)
   How many and where? Seal date: Seal name:
3. Were custody seals unbroken and intact at the date and time of arrival?..... YES NO N/A
4. Were custody papers dry and intact when received?..... (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)?..... (YES) NO
6. Did you sign the custody papers in the appropriate place?..... (YES) NO
7. Was project identifiable from custody papers?..... (YES) NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... (YES) NO
   Type of ice: wet Temperature: 5.2°

B. Login Phase
Date Logged In: 3/29/06 By (print): John P. (sign) [signature]

1. Describe type of packing in cooler: Bubblewrap
2. Did all bottles arrive unbroken?..... (YES) NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)?..... (YES) NO
4. Did bottle labels agree with custody papers?..... (YES) NO
5. Were appropriate containers used for the tests indicated?..... (YES) NO
6. Were correct preservatives added to samples?..... (YES) NO
7. Was sufficient amount of sample sent for tests indicated?..... (YES) NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below..... YES NO N/A
9. Was the client contacted concerning this sample delivery?..... YES NO
   If YES, give details below.
   Who was called? By whom? Date:

Additional Comments:

METALS

Curtis & Tompkins, Ltd.

Metals Analytical Report

Lab #:	185866	Project#:	2893.04.51
Client:	Treadwell & Rollo	Location:	Presidio
Field ID:	WT032906	Diln Fac:	1.000
Lab ID:	185866-001	Sampled:	03/29/06
Matrix:	Water	Received:	03/29/06
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Arsenic	5.4	5.0	112168	04/08/06	04/13/06	200.8	EPA 6020
Cadmium	ND	1.0	112168	04/08/06	04/13/06	200.8	EPA 6020
Chromium	ND	10	112168	04/08/06	04/13/06	200.8	EPA 6020
Copper	4.7	1.0	112168	04/08/06	04/13/06	200.8	EPA 6020
Lead	ND	3.0	112168	04/08/06	04/13/06	200.8	EPA 6020
Mercury	ND	0.20	111955	04/03/06	04/03/06	METHOD	EPA 7470A
Nickel	ND	20	112168	04/08/06	04/13/06	200.8	EPA 6020
Silver	ND	1.0	112168	04/08/06	04/13/06	200.8	EPA 6020
Zinc	22	20	112168	04/08/06	04/13/06	200.8	EPA 6020

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Metals Analytical Report

Lab #:	185866	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC334951	Batch#:	112168
Matrix:	Water	Prepared:	04/08/06
Units:	ug/L	Analyzed:	04/13/06

Analyte	Result	RL
Arsenic	ND	5.0
Cadmium	ND	1.0
Chromium	ND	10
Copper	ND	1.0
Lead	ND	3.0
Nickel	ND	20
Silver	ND	1.0
Zinc	ND	20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Metals Analytical Report

Lab #:	185866	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	111955
Lab ID:	QC334113	Prepared:	04/03/06
Matrix:	Water	Analyzed:	04/03/06
Units:	ug/L		

Result	RL
ND	0.20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Metals Analytical Report

Lab #:	185866	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Matrix:	Water	Batch#:	112168
Units:	ug/L	Prepared:	04/08/06
Diln Fac:	1.000	Analyzed:	04/13/06

Type: BS Lab ID: QC334952

Analyte	Spiked	Result	%REC	Limits
Arsenic	100.0	95.25	95	80-120
Cadmium	100.0	101.3	101	80-120
Chromium	100.0	94.33	94	80-120
Copper	100.0	100.3	100	80-120
Lead	100.0	106.2	106	80-120
Nickel	100.0	99.11	99	80-120
Silver	100.0	104.5	105	80-120
Zinc	100.0	93.89	94	80-120

Type: BSD Lab ID: QC334953

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Arsenic	100.0	96.27	96	80-120	1	20
Cadmium	100.0	101.6	102	80-120	0	20
Chromium	100.0	95.73	96	80-120	1	20
Copper	100.0	102.3	102	80-120	2	20
Lead	100.0	108.1	108	80-120	2	20
Nickel	100.0	99.88	100	80-120	1	20
Silver	100.0	105.8	106	80-120	1	20
Zinc	100.0	94.83	95	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Metals Analytical Report

Lab #:	185866	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	111955
Matrix:	Water	Prepared:	04/03/06
Units:	ug/L	Analyzed:	04/03/06
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC334114	5.000	5.290	106	80-120		
BSD	QC334115	5.000	5.200	104	80-120	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Metals Analytical Report

Lab #:	185866	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	WT032906	Batch#:	112168
MSS Lab ID:	185866-001	Sampled:	03/29/06
Matrix:	Water	Received:	03/29/06
Units:	ug/L	Prepared:	04/08/06
Diln Fac:	1.000	Analyzed:	04/13/06

Type: MS Lab ID: QC334954

Analyte	MSS Result	Spiked	Result	%REC	Limits
Arsenic	5.382	100.0	102.3	97	75-125
Cadmium	<0.1409	100.0	99.22	99	75-125
Chromium	3.387	100.0	100.3	97	75-125
Copper	4.653	100.0	101.6	97	75-125
Lead	0.2610	100.0	116.2	116	75-125
Nickel	7.433	100.0	102.9	95	75-125
Silver	<0.04084	100.0	100.4	100	73-120
Zinc	21.71	100.0	114.4	93	75-125

Type: MSD Lab ID: QC334955

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Arsenic	100.0	101.0	96	75-125	1	20
Cadmium	100.0	99.28	99	75-125	0	20
Chromium	100.0	98.32	95	75-125	2	20
Copper	100.0	100.2	96	75-125	1	20
Lead	100.0	110.4	110	75-125	5	20
Nickel	100.0	100.9	93	75-125	2	20
Silver	100.0	100.8	101	73-120	0	20
Zinc	100.0	110.2	88	75-125	4	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Metals Analytical Report

Lab #:	185866	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	111955
Field ID:	ZZZZZZZZZZ	Sampled:	03/28/06
MSS Lab ID:	185861-011	Received:	03/29/06
Matrix:	Water	Prepared:	04/03/06
Units:	ug/L	Analyzed:	04/03/06
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC334116	<0.07957	5.000	5.180	104	75-125		
MSD	QC334117		5.000	5.070	101	75-125	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Metals Analytical Report

Lab #:	185866	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	WT032906	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	112168
MSS Lab ID:	185866-001	Sampled:	03/29/06
Lab ID:	QC334956	Received:	03/29/06
Matrix:	Water	Analyzed:	04/13/06
Units:	ug/L		

Analyte	MSS Result	MSS RL	Result	RL	% Diff Lim
Arsenic	5.382	5.000	5.989 J	25.00	10
Cadmium	ND	1.000	ND	5.000	10
Chromium	ND	10.00	3.520 J	50.00	10
Copper	4.653	1.000	4.693 J	5.000	10
Lead	ND	3.000	ND	15.00	10
Nickel	ND	20.00	6.916 J	100.0	10
Silver	ND	1.000	ND	5.000	10
Zinc	21.71	20.00	22.77 J	100.0	10

J= Estimated value
ND= Not Detected
RL= Reporting Limit

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET05
Seqnum: 56148292021
File : d1223021
IDF : 1.0
Lab ID: 185866-001
Matrix: Water
Batch : 112168
Time : 13-APR-2006 01:24
Cal : 56148292001
Units : ug/L

Type : PDS
Inst : MET05
Seqnum: 56148292025
File : d1223025
IDF : 1.0
Lab ID: QC334957
Matrix: Water
Batch : 112168
Time : 13-APR-2006 01:46
Cal : 56148292001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S2309 (100X)

Analyte	MSS	Spiked	PDS	%Rec	Limits	Flags
Aluminum	35.31	100.0	139.7	104	75-125	
Antimony	0.1821	100.0	102.9	103	75-125	y
Arsenic	5.382	100.0	101.8	96	75-125	y
Barium	41.05	100.0	150.5	109	75-125	y
Beryllium	ND	100.0	99.37	99	75-125	y
Cadmium	ND	100.0	98.13	98	75-125	y
Chromium	3.387	100.0	100.4	97	75-125	y
Cobalt	0.8275	100.0	93.40	93	75-125	y
Copper	4.653	100.0	101.4	97	75-125	y
Iron	161.0	10000	10470	103	75-125	
Lead	0.2610	100.0	114.9	115	75-125	y
Molybdenum	1.232	100.0	105.0	104	75-125	
Nickel	7.433	100.0	102.5	95	75-125	y
Potassium	8691	10000	19000	103	75-125	
Silver	ND	100.0	99.22	99	75-125	y
Vanadium	8.570	100.0	104.8	96	75-125	y
Zinc	21.71	100.0	111.8	90	75-125	y

ISTD (ICALBLK d1223003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	505366	368487	-27.09
Scandium	469790	369743	-21.30
Germanium	76302	57420	-24.75
Indium	421590	310456	-26.36
Bismuth	277303	194774	-29.76

MISSING READINGS: **CA MG MN SE NA TL**

y=RL raised

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56148292001
Units : ug/L

Date : 12-APR-2006 23:43
X Axis : R

Reviewer: ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	d1223004	56148292004	CS1	12-APR-2006 23:49	S3096
L2	d1223005	56148292005	CS2	12-APR-2006 23:55	S3097
L3	d1223006	56148292006	CS3	13-APR-2006 00:00	S3098
L4	d1223007	56148292007	CS4	13-APR-2006 00:06	S3099
L5	d1223008	56148292008	CS5	13-APR-2006 00:11	S3093
L6	d1223009	56148292009	CS6	13-APR-2006 00:17	S3094

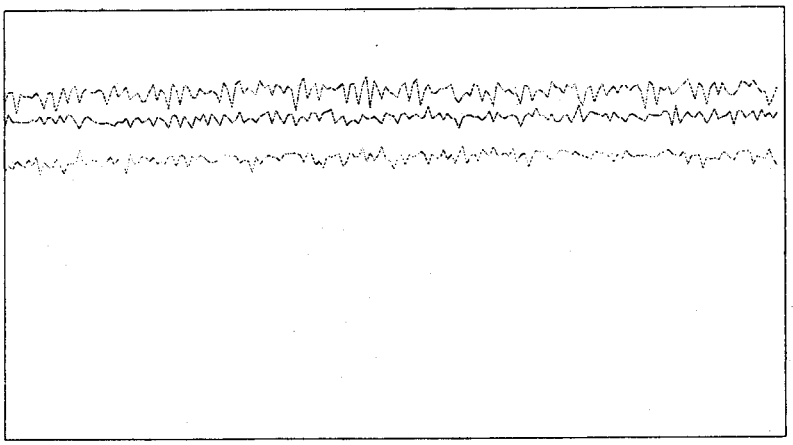
Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		5.3253	4.1581	0.9367	0.7270	0.7164	BLNK	-5.8680	1.44150		2.3727	1.000	0.995	
Antimony	0.2464	0.2431	0.2420	0.2424	0.2382	0.2425	BLNK	-0.0153	4.13863		0.2424	1.000	0.995	
Arsenic		0.6888	0.5474	0.4636	0.4410	0.4410	BLNK	-0.3191	2.27199		0.5163	1.000	0.995	
Barium	0.1274	0.1162	0.1096	0.0963	0.0943	0.0974	BLNK	-0.0503	10.3350		0.1069	1.000	0.995	
Beryllium	0.1588	0.1347	0.1496	0.1485	0.1472	0.1493	BLNK	-0.0133	6.71642		0.1480	1.000	0.995	
Cadmium	0.7039	0.5663	0.5111	0.4085	0.3855	0.3797	BLNK	-0.2042	2.62868		0.4925	1.000	0.995	
Calcium		0.0375	0.0317	0.0216	0.0207	0.0206	BLNK	-46.570	48.6783		0.0264	1.000	0.995	
Chromium		10.164	7.2486	4.3081	3.9086	4.1999	BLNK	-0.6698	0.24243		5.9659	0.999	0.995	
Cobalt	4.6228	4.5422	4.6513	4.4716	4.2575	4.6214	BLNK	-0.0211	0.21989		4.5278	0.999	0.995	
Copper		1.3223	1.1868	1.0788	1.0026	0.9927	BLNK	-0.1224	1.00595		1.1166	1.000	0.995	
Iron		0.1643	0.1397	0.1073	0.1093	0.1072	BLNK	-33.639	9.31052		0.1256	1.000	0.995	
Lead	1.1156	1.0642	1.0381	0.9744	1.0637	1.0127	BLNK	-0.0386	0.97797		1.0448	0.999	0.995	
Magnesium		0.1116	0.1070	0.0945	0.0848	0.0856	BLNK	-19.311	11.7169		0.0967	1.000	0.995	
Manganese	8.9735	6.9371	6.3969	5.2878	5.4440	5.4254	BLNK	-0.1771	0.18440		6.4108	1.000	0.995	
Molybdenum		0.8891	0.9286	0.8251	0.8265	0.8290	BLNK	-0.1241	1.20795		0.8597	1.000	0.995	
Nickel	1.6701	1.2596	1.1499	0.9957	0.9397	0.9352	BLNK	-0.1058	1.06879		1.1584	1.000	0.995	
Potassium		1.8686	1.3567	0.8097	0.7310	0.7344	BLNK	-72.984	1.36874		1.1001	1.000	0.995	
Selenium		0.0941	0.0497	0.0390	0.0351	0.0349	BLNK	-0.3726	28.6568		0.0506	1.000	0.995	
Silver	2.0871	2.0675	2.1425	2.0149	1.9245	1.8629	BLNK	-0.0272	0.53329		2.0166	1.000	0.995	
Sodium		3.0771	2.1796	1.0335	0.8919	0.8949	BLNK	-167.03	1.12944		1.6154	1.000	0.995	
Thallium		0.7398	0.7436	0.6914	0.7129	0.7570	BLNK	-0.0976	1.33760		0.7290	0.999	0.995	
Vanadium		7.4545	5.9999	4.8359	4.9703	5.1070	BLNK	-0.2822	0.19723		5.6735	1.000	0.995	
Zinc		1.7149	1.3906	0.5704	0.4846	0.4797	BLNK	-0.8587	2.09058		0.9280	1.000	0.995	

Instrument amount = a0 + response * a1 + response^2 * a2; BLNK=Y=aX+[blank]

56148292001

Tune Report

Tune File : Autotune.u



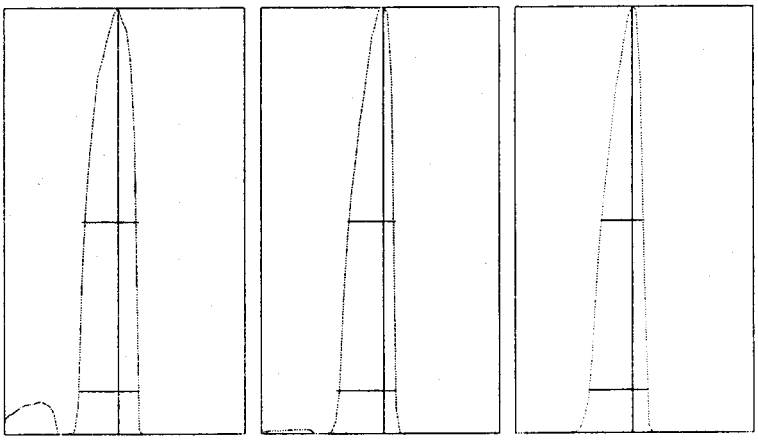
m/z:	7	89	205
Range:	50,000	50,000	20,000
Count:	37,824	40,766	12,650
Mean:	37406.5	40434.8	13080.1
RSD%:	1.42	2.16	1.92
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.45%
Doubly Charged:	70/140	1.82%

Background:

m/z:	7	89	205
Cps:	4.6	5.0	8.9



m/z:	7	89	205
Height:	37,516	39,605	12,869
Axis:	6.95	89.05	205.00
W-50%:	0.70	0.60	0.55
W-10%:	0.7500	0.7500	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1200 W	Extract 1:	-168.9 V	AMU Gain:	131
RF Matching:	1.65 V	Extract 2:	-76 V	AMU Offset:	125
Smpl Depth:	7 mm	Einzel 1,3:	-25 V	Axis Gain:	0.9994
Torch-H:	0.4 mm	Einzel 2:	8 V	Axis Offset:	-0.06
Torch-V:	0.2 mm	Omega Bias:	-15 V	QP Bias:	1.5 V
Carrier Gas:	1.09 L/min	Omega (+):	4.6 V		
Makeup Gas:	0 L/min	Omega (-):	-3.9 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	5 V	Discriminator:	8.7 mV
PeriPump1:	0.1 rps	Plate Bias:	-17.8 V	Analog HV:	1810 V
PeriPump2:	--- rps			Pulse HV:	1280 V
S/C Temp:	2 degC				

Generated : Apr 12, 2006 09:50:36
Printed : Apr 12, 2006 09:50:42

P/A Factor Tuning Report

Acquired:Apr 12 2006 10:01 am

Mass[amu]	Element	P/A Factor
6	Li	0.064497
9	Be	0.071592
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	Sensitivity too high
39	K	Sensitivity too high
43	Ca	0.087481
44	Ca	Sensitivity too high
45	Sc	0.087100
51	V	0.092393
52	Cr	0.094133
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	Sensitivity too high
57	Fe	Sensitivity too high
59	Co	0.099275
60	Ni	0.097420
63	Cu	0.100669
65	Cu	0.098963
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.095705
95	Mo	0.094635
98	Mo	0.096282
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.103645
111	Cd	Sensitivity too low
114	Cd	0.102205
115	In	0.102593
118	(In)	Sensitivity too high
121	Sb	0.102799
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.105101
166	Er	Sensitivity too low

205	Tl	0.111283
206	(Pb)	0.107988
207	(Pb)	Sensitivity too low
208	Pb	0.110269
209	Bi	Sensitivity too low

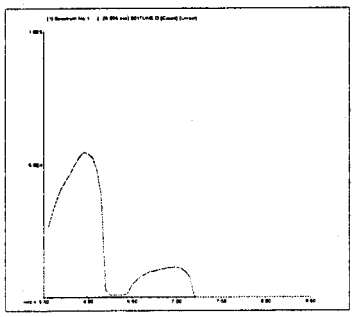
===Detector Parameters===
Discriminator: 8.7 mV
Analog HV: 1810 V
Pulse HV: 1280 V

6020 QC Tune Report

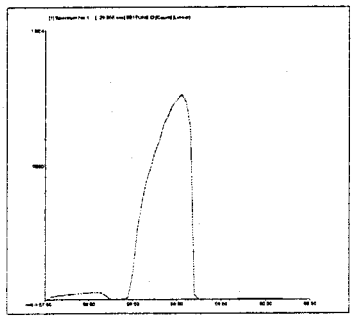
Data File: C:\ICPCHEM\1\DATA\06D1223a.B\001TUNE.D
Date Acquired: Apr 12 2006 11:32 pm
Acq. Method: TN6020.M
Operator:
Sample Name: TUN,S3105
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

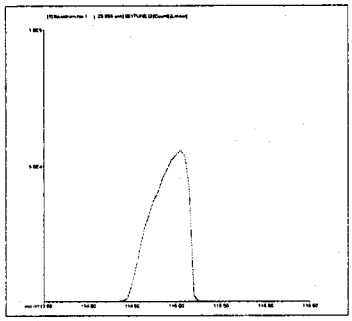
Element	Actual	Required	Flag
7 Li	1.24	5.00	
59 Co	2.15	5.00	
115 In	0.67	5.00	
205 Tl	2.99	5.00	



7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



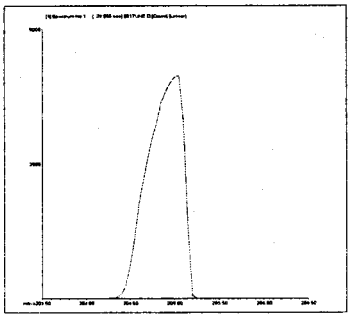
115 In

Mass Calib.

Actual: 115.05
Required: 114.90 - 115.10
Flag:

Peak Width

Actual: 0.60
Required: 0.90
Flag:



205 Tl

Mass Calib.

Actual: 205.05
Required: 204.90 - 205.10
Flag:

Peak Width

Actual: 0.60
Required: 0.90
Flag:

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06D1223a.B\002BLNK.D\002BLNK.D#
Date Acquired:	Apr 12 2006 11:38 pm
Acq. Method:	60200111.M
Operator:	
Sample Name:	RINSE
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update:	Apr 12 2006 05:56 pm
Sample Type:	6-Blank
Dilution Factor:	1.00

QC Elements

Element	Corr. Conc.		RSD(%)	Raw Conc.	High Limit	Flag
9 Be	0.007892	ppb	28.71	0.007892	1.00	
23 Na	93.5	ppb	3.42	93.5	1.00	
26 Mg	13.04	ppb	5.38	13.04	1.00	
27 Al	2.12	ppb	8.93	2.12	1.00	
39 K	9.146	ppb	23.32	9.146	1.00	
44 Ca	13.81	ppb	8.13	13.81	1.00	
51 V	0.05054	ppb	33.00	0.05054	1.00	
52 Cr	0.01299	ppb	15.88	0.01299	1.00	
55 Mn	0.03719	ppb	17.47	0.03719	1.00	
57 Fe	6.679	ppb	6.40	6.679	1.00	
59 Co	0.008746	ppb	22.59	0.008746	1.00	
60 Ni	0.05343	ppb	17.53	0.05343	1.00	
65 Cu	0.05277	ppb	28.84	0.05277	1.00	
66 Zn	-0.008806	ppb	345.33	-0.008806	1.00	
75 As	0.07738	ppb	236.24	0.07738	1.00	
82 Se	0.2408	ppb	238.70	0.2408	1.00	
95 Mo	0.07719	ppb	15.09	0.07719	1.00	
109 Ag	0.01868	ppb	10.78	0.01868	1.00	
111 Cd	0.03864	ppb	73.27	0.03864	1.00	
121 Sb	0.0004653	ppb	201.74	0.0004653	1.00	
137 Ba	0.004916	ppb	221.52	0.004916	1.00	
205 Tl	0.08604	ppb	56.35	0.08604	1.00	
208 Pb	0.005145	ppb	115.04	0.005145	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	501106.66	1.77	---	#VALUE!	80 - 120	
45 Sc	468954.41	3.15	---	#VALUE!	80 - 120	
72 Ge	76563.34	2.19	---	#VALUE!	80 - 120	
115 In	421953.56	3.37	---	#VALUE!	80 - 120	
209 Bi	279182.19	3.08	---	#VALUE!	80 - 120	

ISTD Ref File : ---

6 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Fail
ISTD: Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06D1223a.B\003CAL
Date Acquired: Apr 12 2006 11:43 pm
Operator:
Sample Name: std-blk
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 12 2006 05:56 pm
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	505365.81	M	4650.00	0.92
9	Be	20.00	P	5.77	28.87
23	Na	1388294.00	A	170800.00	12.30
26	Mg	15471.11	P	2479.00	16.02
27	Al	38208.89	P	5639.00	14.76
39	K	500816.59	P	12190.00	2.43
44	Ca	8986.50	P	494.90	5.51
45	Sc	469790.00	P	6767.00	1.44
51	V	2182.60	P	517.30	23.70
52	Cr	4215.56	P	141.90	3.37
55	Mn	1465.56	P	110.40	7.53
57	Fe	5512.22	P	324.60	5.89
59	Co	146.67	P	24.04	16.39
60	Ni	151.11	P	20.37	13.48
65	Cu	185.49	P	29.87	16.10
66	Zn	626.59	P	61.72	9.85
72	Ge	76301.56	P	470.30	0.62
75	As	214.17	P	43.61	20.36
82	Se	19.78	P	17.79	89.95
95	Mo	156.67	P	30.00	19.15
109	Ag	77.78	P	1.93	2.48
111	Cd	118.60	P	11.82	9.97
115	In	421590.31	P	4197.00	1.00
121	Sb	31.11	P	3.85	12.37
137	Ba	41.11	P	6.94	16.88
205	Tl	404.44	P	54.81	13.55
208	Pb	218.89	P	29.12	13.30
209	Bi	277303.31	P	2605.00	0.94

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D1223a.B\004CALI.D\004CALI.D#
Date Acquired: Apr 12 2006 11:49 pm
Operator:
Sample Name: CS1,S3096
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 12 2006 11:45 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	512307.69	M	4150.00	0.81
9	Be	406.67	P	3.33	0.82
23	Na	1379659.00	A	42150.00	3.06
26	Mg	33542.22	P	859.40	2.56
27	Al	26678.89	P	971.70	3.64
39	K	704278.00	A	7528.00	1.07
44	Ca	14424.20	P	443.30	3.07
45	Sc	475047.69	P	2012.00	0.42
51	V	3846.12	P	320.50	8.33
52	Cr	7115.56	P	100.00	1.41
55	Mn	3492.22	P	183.50	5.25
57	Fe	8957.78	P	140.50	1.57
59	Co	1798.89	P	34.21	1.90
60	Ni	650.00	P	51.96	7.99
65	Cu	675.41	P	34.69	5.14
66	Zn	1443.17	P	146.60	10.16
72	Ge	77825.56	P	270.70	0.35
75	As	395.29	P	115.80	29.30
82	Se	61.56	P	28.76	46.72
95	Mo	433.33	P	17.64	4.07
109	Ag	812.22	P	64.75	7.97
111	Cd	273.88	P	23.44	8.56
115	In	431648.31	P	5946.00	1.38
121	Sb	531.11	P	80.02	15.07
137	Ba	274.44	P	50.04	18.23
205	Tl	1164.44	P	40.05	3.44
208	Pb	1614.44	P	63.80	3.95
209	Bi	289534.41	P	5921.00	2.05

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6	Li	512307.69	0.81	505365.81	101.4	80 -	120	

45	Sc	475047.75	0.42	469789.97	101.1	80 -	120
72	Ge	77825.56	0.35	76301.56	102.0	80 -	120
115	In	431648.34	1.38	421590.28	102.4	80 -	120
209	Bi	289534.44	2.05	277303.31	104.4	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D1223a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D1223a.B\005CALI.D\005CALI.D#
Date Acquired: Apr 12 2006 11:55 pm
Operator:
Sample Name: CS2,S3097
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 12 2006 11:51 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	507250.09	M	10390.00	2.05
9	Be	682.22	P	48.57	7.12
23	Na	1464266.00	A	71860.00	4.91
26	Mg	53125.55	P	1285.00	2.42
27	Al	25336.67	P	2443.00	9.64
39	K	889249.50	A	14050.00	1.58
44	Ca	17843.92	P	682.50	3.82
45	Sc	475943.31	P	3471.00	0.73
51	V	5737.73	P	423.10	7.37
52	Cr	7821.11	P	180.00	2.30
55	Mn	5337.78	P	21.69	0.41
57	Fe	12640.00	P	105.90	0.84
59	Co	3495.55	P	128.50	3.68
60	Ni	968.89	P	77.05	7.95
65	Cu	1017.55	P	21.17	2.08
66	Zn	1319.73	P	64.29	4.87
72	Ge	76947.56	P	500.60	0.65
75	As	530.28	P	93.87	17.70
82	Se	72.44	P	13.68	18.88
95	Mo	684.44	P	77.63	11.34
109	Ag	1591.11	P	83.36	5.24
111	Cd	435.80	P	18.09	4.15
115	In	428360.00	P	2126.00	0.50
121	Sb	1041.11	P	16.78	1.61
137	Ba	497.78	P	21.69	4.36
205	Tl	2093.33	P	48.42	2.31
208	Pb	3011.11	P	80.37	2.67
209	Bi	282942.19	P	2059.00	0.73

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	507250.13	2.05	505365.81	100.4	80 - 120	

45	Sc	475943.31	0.73	469789.97	101.3	80 - 120
72	Ge	76947.56	0.65	76301.56	100.8	80 - 120
115	In	428359.97	0.50	421590.28	101.6	80 - 120
209	Bi	282942.19	0.73	277303.31	102.0	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D1223a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D1223a.B\006CALI.D\006CALI.D#
Date Acquired: Apr 13 2006 12:00 am
Operator:
Sample Name: CS3,S3098
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 12 2006 11:56 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	511859.41	M	12320.00	2.41
9	Be	1527.78	P	197.80	12.95
23	Na	2083928.00	A	69490.00	3.33
26	Mg	102331.10	P	1491.00	1.46
27	Al	39746.67	P	2344.00	5.90
39	K	1297571.00	A	12460.00	0.96
44	Ca	30275.04	P	575.10	1.90
45	Sc	478382.19	P	9846.00	2.06
51	V	9275.70	P	608.20	6.56
52	Cr	11198.89	P	112.40	1.00
55	Mn	9883.33	P	184.50	1.87
57	Fe	21576.67	P	354.30	1.64
59	Co	7186.67	P	115.70	1.61
60	Ni	1776.67	P	26.46	1.49
65	Cu	1834.00	P	41.95	2.29
66	Zn	2148.38	P	23.41	1.09
72	Ge	77266.89	P	1110.00	1.44
75	As	845.83	P	50.12	5.93
82	Se	76.67	P	13.48	17.58
95	Mo	1434.44	P	50.04	3.49
109	Ag	3310.00	P	194.60	5.88
111	Cd	790.10	P	37.12	4.70
115	In	431272.50	P	6848.00	1.59
121	Sb	2086.67	P	46.19	2.21
137	Ba	944.44	P	84.42	8.94
205	Tl	4170.00	P	227.50	5.46
208	Pb	5824.44	P	132.70	2.28
209	Bi	280581.09	P	6622.00	2.36

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	511859.41	2.41	505365.81	101.3	80 - 120	

45	Sc	478382.22	2.06	469789.97	101.8	80 - 120
72	Ge	77266.89	1.44	76301.56	101.3	80 - 120
115	In	431272.47	1.59	421590.28	102.3	80 - 120
209	Bi	280581.09	2.36	277303.31	101.2	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D1223a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D1223a.B\007CALI.D\007CALI.D#
Date Acquired: Apr 13 2006 12:06 am
Operator:
Sample Name: CS4,S3099
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 13 2006 00:02 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	514221.81	M	5021.00	0.98
9 Be	15275.55	P	233.30	1.53
23 Na	9967372.00	A	113700.00	1.14
26 Mg	911176.13	A	6718.00	0.74
27 Al	90333.33	P	928.40	1.03
39 K	7808842.00	A	48030.00	0.62
44 Ca	208225.30	P	920.20	0.44
45 Sc	482218.91	P	4207.00	0.87
51 V	76002.56	P	1210.00	1.59
52 Cr	67707.78	P	848.60	1.25
55 Mn	83104.44	P	922.90	1.11
57 Fe	168710.00	P	2241.00	1.33
59 Co	70276.66	P	1117.00	1.59
60 Ni	15647.78	P	79.05	0.51
65 Cu	16953.80	P	557.60	3.29
66 Zn	8965.44	P	292.40	3.26
72 Ge	78579.56	P	367.40	0.47
75 As	7285.68	P	211.80	2.91
82 Se	612.44	P	43.01	7.02
95 Mo	12967.78	P	290.40	2.24
109 Ag	31665.56	P	386.30	1.22
111 Cd	6420.36	P	94.52	1.47
115 In	432467.41	P	2577.00	0.60
121 Sb	20964.44	P	360.10	1.72
137 Ba	8328.89	P	115.30	1.38
205 Tl	40296.67	P	891.00	2.21
208 Pb	56774.44	P	1094.00	1.93
209 Bi	291410.00	P	7035.00	2.41

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	514221.81	0.98	505365.81	101.8	80 - 120	

45	Sc	482218.88	0.87	469789.97	102.6	80 - 120
72	Ge	78579.56	0.47	76301.56	103.0	80 - 120
115	In	432467.41	0.60	421590.28	102.6	80 - 120
209	Bi	291410.00	2.41	277303.31	105.1	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D1223a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D1223a.B\008CALI.D\008CALI.D#
Date Acquired: Apr 13 2006 12:11 am
Operator:
Sample Name: CS5,S3093
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 13 2006 00:08 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	486594.41	P	1735.00	0.36
9	Be	143212.20	P	1487.00	1.04
23	Na	83612920.00	A	960800.00	1.15
26	Mg	7953586.00	A	42480.00	0.53
27	Al	681516.50	A	5335.00	0.78
39	K	68528960.00	A	738100.00	1.08
44	Ca	1945155.00	A	9347.00	0.48
45	Sc	468736.59	P	2597.00	0.55
51	V	755820.88	A	2587.00	0.34
52	Cr	594374.38	P	3607.00	0.61
55	Mn	827855.13	A	9077.00	1.10
57	Fe	1662737.00	A	14660.00	0.88
59	Co	647428.88	P	2696.00	0.42
60	Ni	142901.09	P	2285.00	1.60
65	Cu	152468.30	P	2267.00	1.49
66	Zn	73695.78	P	403.20	0.55
72	Ge	76034.67	P	171.30	0.23
75	As	67060.65	P	918.10	1.37
82	Se	5336.44	P	64.61	1.21
95	Mo	125684.40	P	717.30	0.57
109	Ag	292668.91	P	3590.00	1.23
111	Cd	58628.71	P	716.50	1.22
115	In	416101.41	P	3860.00	0.93
121	Sb	198248.91	P	604.20	0.30
137	Ba	78498.88	P	1930.00	2.46
205	Tl	397325.50	P	4822.00	1.21
208	Pb	592877.69	P	5353.00	0.90
209	Bi	278697.81	P	2202.00	0.79

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	486594.41	0.36	505365.81	96.3	80 - 120	

45	Sc	468736.66	0.55	469789.97	99.8	80 -	120
72	Ge	76034.66	0.23	76301.56	99.7	80 -	120
115	In	416101.38	0.93	421590.28	98.7	80 -	120
209	Bi	278697.78	0.79	277303.31	100.5	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D1223a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06D1223a.B\009CALI.D\009CALI.D#
Date Acquired: Apr 13 2006 12:17 am
Operator:
Sample Name: CS6,S3094
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Apr 13 2006 00:13 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	463651.09	P	2643.00	0.57
9	Be	276960.00	P	992.90	0.36
23	Na	160743200.00	A	471500.00	0.29
26	Mg	15372120.00	A	199300.00	1.30
27	Al	1286836.00	A	9356.00	0.73
39	K	131921600.00	A	1196000.00	0.91
44	Ca	3693804.00	A	56920.00	1.54
45	Sc	449070.00	P	1946.00	0.43
51	V	1492486.00	A	10820.00	0.72
52	Cr	1227433.00	A	11120.00	0.91
55	Mn	1585781.00	A	29450.00	1.86
57	Fe	3133416.00	A	54490.00	1.74
59	Co	1350608.00	A	7503.00	0.56
60	Ni	273344.41	P	2280.00	0.83
65	Cu	290129.31	P	1844.00	0.64
66	Zn	140204.20	P	1269.00	0.91
72	Ge	73070.00	P	833.90	1.14
75	As	128885.20	P	1577.00	1.22
82	Se	10211.56	P	140.00	1.37
95	Mo	242297.80	P	2797.00	1.15
109	Ag	544448.88	P	3278.00	0.60
111	Cd	110963.90	P	1039.00	0.94
115	In	392423.81	P	2150.00	0.55
121	Sb	380648.91	P	2058.00	0.54
137	Ba	152896.70	P	1229.00	0.80
205	Tl	765470.00	P	6273.00	0.82
208	Pb	1023760.00	P	8059.00	0.79
209	Bi	253052.20	P	10930.00	4.32

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	463651.06	0.57	505365.81	91.7	80 - 120	

45	Sc	449069.97	0.43	469789.97	95.6	80 -	120
72	Ge	73070.00	1.14	76301.56	95.8	80 -	120
115	In	392423.78	0.55	421590.28	93.1	80 -	120
209	Bi	253052.20	4.32	277303.31	91.3	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06D1223a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Summary

Calibration : C:\ICPCHEM\1\CALIB\60200111.C
Last Calib: Apr 13, 2006 00:19
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\06d1223a.b\003calb.d\	003calb.d#	Apr 12 2006 11:43 pm
2	...hem\1\data\06d1223a.b\004cali.d\	004cali.d#	Apr 12 2006 11:49 pm
3	...hem\1\data\06d1223a.b\005cali.d\	005cali.d#	Apr 12 2006 11:55 pm
4	...hem\1\data\06d1223a.b\006cali.d\	006cali.d#	Apr 13 2006 12:00 am
5	...hem\1\data\06d1223a.b\007cali.d\	007cali.d#	Apr 13 2006 12:06 am
6	...hem\1\data\06d1223a.b\008cali.d\	008cali.d#	Apr 13 2006 12:11 am
7	...hem\1\data\06d1223a.b\009cali.d\	009cali.d#	Apr 13 2006 12:17 am
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	Excluded	---	ppb
Be	9	6	Y = 1.489E-1*X +1.982E-3(blank)	---	ppb
Na	23	45	Y = 8.854E-1*X +1.479E+2(blank)	---	ppb
Mg	25	45	Excluded	---	ppb
Mg	26	45	Y = 8.535E-2*X +1.648E+0(blank)	---	ppb
Al	27	45	Y = 6.937E-1*X +4.071E+0(blank)	---	ppb
K	39	45	Y = 7.306E-1*X +5.332E+1(blank)	---	ppb
Ca	43	45	Excluded	---	ppb
Ca	44	45	Y = 2.054E-2*X +9.567E-1(blank)	---	ppb
Sc	45	---	Excluded	---	ppb
V	51	72	Y = 5.070E+0*X +1.431E+0(blank)	---	ppb
Cr	52	72	Y = 4.125E+0*X +2.763E+0(blank)	---	ppb
Cr	53	72	Excluded	---	ppb
Fe	54	72	Excluded	---	ppb
Mn	55	72	Y = 5.423E+0*X +9.606E-1(blank)	---	ppb
Fe	57	72	Y = 1.074E-1*X +3.613E+0(blank)	---	ppb
Co	59	72	Y = 4.548E+0*X +9.617E-2(blank)	---	ppb
Ni	60	72	Y = 9.356E-1*X +9.901E-2(blank)	---	ppb
Cu	63	72	Excluded	---	ppb
Cu	65	72	Y = 9.941E-1*X +1.216E-1(blank)	---	ppb
Zn	66	72	Y = 4.783E-1*X +4.108E-1(blank)	---	ppb
Ge	72	---	Excluded	---	ppb
As	75	72	Y = 4.401E-1*X +1.404E-1(blank)	---	ppb
(As)	77	72	Excluded	---	ppb
Se	82	72	Y = 3.490E-2*X +1.300E-2(blank)	---	ppb
(As)	83	72	Excluded	---	ppb
(Ca)	88	72	Excluded	---	ppb
Y	89	72	Excluded	---	ppb
Mo	95	72	Y = 8.279E-1*X +1.027E-1(blank)	---	ppb
Mo	98	72	Excluded	---	ppb
(Mo)	99	72	Excluded	---	ppb
(Cd)	106	72	Excluded	---	ppb
(Cd)	108	72	Excluded	---	ppb
Ag	109	72	Y = 1.875E+0*X +5.097E-2(blank)	---	ppb
Cd	111	72	Y = 3.804E-1*X +7.769E-2(blank)	---	ppb
Cd	114	72	Excluded	---	ppb
In	115	---	Excluded	---	ppb
(In)	118	---	Excluded	---	ppb
Sb	121	115	Y = 2.416E-1*X +3.693E-3(blank)	---	ppb
Ba	135	115	Excluded	---	ppb
Ba	137	115	Y = 9.676E-2*X +4.871E-3(blank)	---	ppb
Tb	159	---	Excluded	---	ppb
Er	166	115	Excluded	---	ppb
Tl	205	209	Y = 7.476E-1*X +7.294E-2(blank)	---	ppb
(Pb)	206	209	Excluded	---	ppb
(Pb)	207	209	Excluded	---	ppb
Pb	208	209	Y = 1.023E+0*X +3.948E-2(blank)	---	ppb
Bi	209	---	Excluded	---	ppb
Th	232	209	--------	---	ppb
U	238	209	--------	---	ppb

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56148292010 File : d1223010 Time : 13-APR-2006 00:23
Cal : 56148292001 Caldate: 12-APR-2006
Standards: S3102

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	2.3727	0.7686	100.0	104.9	ug/L	5	10	
Antimony	0.2424	0.2491	100.0	103.1	ug/L	3	10	
Arsenic	0.5163	0.4520	100.0	102.4	ug/L	2	10	
Barium	0.1069	0.0991	100.0	102.4	ug/L	2	10	
Beryllium	0.1480	0.1508	100.0	101.3	ug/L	1	10	
Cadmium	0.4925	0.3871	100.0	101.5	ug/L	2	10	
Calcium	0.0264	0.0217	10000	10530	ug/L	5	10	
Chromium	5.9659	4.0966	100.0	98.64	ug/L	-1	10	
Cobalt	4.5278	4.4181	100.0	97.13	ug/L	-3	10	
Copper	1.1166	1.0418	100.0	104.7	ug/L	5	10	
Iron	0.1256	0.1141	10000	10590	ug/L	6	10	
Lead	1.0448	1.0871	100.0	106.3	ug/L	6	10	
Magnesium	0.0967	0.0902	10000	10550	ug/L	6	10	
Manganese	6.4108	5.6602	100.0	104.2	ug/L	4	10	
Molybdenum	0.8597	0.8413	100.0	101.5	ug/L	2	10	
Nickel	1.1584	0.9729	100.0	103.9	ug/L	4	10	
Potassium	1.1001	0.7760	10000	10550	ug/L	6	10	
Selenium	0.0506	0.0357	100.0	102.0	ug/L	2	10	
Silver	2.0166	1.9462	100.0	103.8	ug/L	4	10	
Sodium	1.6154	0.9483	10000	10540	ug/L	5	10	
Thallium	0.7290	0.7345	100.0	98.15	ug/L	-2	10	
Vanadium	5.6735	5.2174	100.0	102.6	ug/L	3	10	
Zinc	0.9280	0.5061	100.0	105.0	ug/L	5	10	

ISTD (ICALBLK d1223003)	ICALBLK Abund	Abund	%Drift
Lithium	505366	478393	-5.34
Scandium	469790	457283	-2.66
Germanium	76302	74981	-1.73
Indium	421590	399105	-5.33
Bismuth	277303	268694	-3.10

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56148292028
Cal : 56148292001
Standards: S3104

File : d1223028
Caldate: 12-APR-2006

IDF : 1.0
Time : 13-APR-2006 02:02

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.3727	0.6975	150.0	145.0	ug/L	-3	10	
Antimony	0.2424	0.2349	150.0	145.8	ug/L	-3	10	
Arsenic	0.5163	0.4292	150.0	146.0	ug/L	-3	10	
Barium	0.1069	0.0947	150.0	146.7	ug/L	-2	10	
Beryllium	0.1480	0.1433	150.0	144.3	ug/L	-4	10	
Cadmium	0.4925	0.3652	150.0	143.8	ug/L	-4	10	
Calcium	0.0264	0.0204	15000	14840	ug/L	-1	10	
Chromium	5.9659	4.1737	150.0	151.1	ug/L	1	10	
Cobalt	4.5278	4.6068	150.0	151.9	ug/L	1	10	
Copper	1.1166	0.9807	150.0	147.9	ug/L	-1	10	
Iron	0.1256	0.1073	15000	14950	ug/L	0	10	
Lead	1.0448	1.0455	150.0	153.3	ug/L	2	10	
Magnesium	0.0967	0.0837	15000	14680	ug/L	-2	10	
Manganese	6.4108	5.4201	150.0	149.7	ug/L	0	10	
Molybdenum	0.8597	0.7879	150.0	142.6	ug/L	-5	10	
Nickel	1.1584	0.9218	150.0	147.7	ug/L	-2	10	
Potassium	1.1001	0.7263	15000	14840	ug/L	-1	10	
Selenium	0.0506	0.0342	150.0	146.5	ug/L	-2	10	
Silver	2.0166	1.7994	150.0	143.9	ug/L	-4	10	
Sodium	1.6154	0.8808	15000	14760	ug/L	-2	10	
Thallium	0.7290	0.7372	150.0	147.8	ug/L	-1	10	
Vanadium	5.6735	5.0438	150.0	148.9	ug/L	-1	10	
Zinc	0.9280	0.4737	150.0	147.7	ug/L	-2	10	

ISTD (ICALBLK d1223003)	ICALBLK Abund	Abund	%Drift
Lithium	505366	448183	-11.32
Scandium	469790	435646	-7.27
Germanium	76302	71290	-6.57
Indium	421590	378365	-10.25
Bismuth	277303	240092	-13.42

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56148292012 File : d1223012 Time : 13-APR-2006 00:34
Cal : 56148292001 Caldate: 12-APR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	[0.1076]	0.2500	0.04566	ug/L	!ib
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.008936]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.3003]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.3245]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK d1223003)	ICALBLK Abund	Abund	%Drift
Lithium	505366	503674	-0.33
Scandium	469790	478232	1.80
Germanium	76302	76121	-0.24
Indium	421590	430840	2.19
Bismuth	277303	283691	2.30

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56148292030 File : d1223030 Time : 13-APR-2006 02:14
Cal : 56148292001 Caldate: 12-APR-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.05090]	0.5000	0.03860	ug/L	!ib
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.005290]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.4332]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.3263]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK d1223003)	ICALBLK Abund	Abund	%Drift
Lithium	505366	471881	-6.63
Scandium	469790	453292	-3.51
Germanium	76302	73312	-3.92
Indium	421590	392830	-6.82
Bismuth	277303	250297	-9.74

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56148292013 File : d1223013 Time : 13-APR-2006 00:39
Cal : 56148292001 Caldate: 12-APR-2006
Standards: S3100, 05WS0207

Analyte	Quant	RL	Units	Flags
Antimony	2.327	0.2500	ug/L	
Arsenic	0.9512	0.5000	ug/L	
Barium	1.040	0.2500	ug/L	
Beryllium	[0.03448]	0.2500	ug/L	
Cadmium	[0.09695]	0.2500	ug/L	
Chromium	1.489	0.5000	ug/L	
Cobalt	2.558	0.2500	ug/L	
Copper	1.883	0.5000	ug/L	
Lead	1.480	0.2500	ug/L	
Manganese	1.197	0.2500	ug/L	
Nickel	2.033	0.2500	ug/L	
Selenium	0.7927	0.5000	ug/L	
Silver	[0.1366]	0.2500	ug/L	
Thallium	[0.2641]	0.5000	ug/L	
Vanadium	[0.2098]	0.5000	ug/L	
Zinc	3.360	0.5000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	101800	ug/L	102
Calcium	300000	322600	ug/L	108
Iron	250000	225300	ug/L	90
Magnesium	100000	103000	ug/L	103
Molybdenum	2000	2011	ug/L	101
Potassium	100000	106700	ug/L	107
Sodium	250000	254400	ug/L	102

ISTD (ICALBLK d1223003)	ICALBLK Abund	Abund	%Drift
Lithium	505366	305478	-39.55
Scandium	469790	300272	-36.08
Germanium	76302	53355	-30.07
Indium	421590	259571	-38.43
Bismuth	277303	168899	-39.09

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56148292014 File : d1223014 Time : 13-APR-2006 00:45
Cal : 56148292001 Caldate: 12-APR-2006
Standards: S3101, 05WS0207

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	92130	ug/L	-8		
Arsenic	100.0	102.6	ug/L	3	20	
Cadmium	100.0	95.37	ug/L	-5	20	
Calcium	300000	294200	ug/L	-2		
Chromium	200.0	213.9	ug/L	7	20	
Cobalt	200.0	205.2	ug/L	3	20	
Copper	200.0	186.7	ug/L	-7	20	
Iron	250000	213400	ug/L	-15		
Magnesium	100000	93670	ug/L	-6		
Manganese	200.0	209.2	ug/L	5	20	
Molybdenum	2000	1884	ug/L	-6		
Nickel	200.0	191.9	ug/L	-4	20	
Potassium	100000	96870	ug/L	-3		
Selenium	100.0	93.99	ug/L	-6	20	
Silver	50.00	46.70	ug/L	-7	20	
Sodium	250000	230800	ug/L	-8		
Vanadium	200.0	217.6	ug/L	9	20	
Zinc	100.0	87.54	ug/L	-12	20	

ISTD (ICALBLK d1223003)	ICALBLK Abund	Abund	%Drift
Scandium	469790	321302	-31.61
Germanium	76302	55865	-26.78

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56148292 Instrument: MET05 Agilent ICP-MS Begun: 12-APR-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	d1223001	TUN				12-APR-2006 23:32	1.0	1.0				1	
003	d1223003	ICALBLK	std-blk			12-APR-2006 23:43	1.0	1.0				2	
004	d1223004	ICAL	CS1			12-APR-2006 23:49	1.0	1.0				3	
005	d1223005	ICAL	CS2			12-APR-2006 23:55	1.0	1.0				4	
006	d1223006	ICAL	CS3			13-APR-2006 00:00	1.0	1.0				5	
007	d1223007	ICAL	CS4			13-APR-2006 00:06	1.0	1.0				6	
008	d1223008	ICAL	CS5			13-APR-2006 00:11	1.0	1.0				7	
009	d1223009	ICAL	CS6			13-APR-2006 00:17	1.0	1.0				8	
010	d1223010	ICV				13-APR-2006 00:23	1.0	1.0			1	9	
012	d1223012	ICB				13-APR-2006 00:34	1.0	1.0			1	2	
013	d1223013	ICSA				13-APR-2006 00:39	1.0	1.0			1	10 2	7:CA=322600
014	d1223014	ICSAB				13-APR-2006 00:45	1.0	1.0			1	11 2	11:CA=294200
018	d1223018	BLANK	QC334951	112168	Water	13-APR-2006 01:07	1.0	1.0			1	2	
019	d1223019	BS	QC334952	112168	Water	13-APR-2006 01:13	1.0	1.0			1	2	
020	d1223020	BSD	QC334953	112168	Water	13-APR-2006 01:18	1.0	1.0			1	2	45
021	d1223021	MSS	185866-001	112168	Water	13-APR-2006 01:24	1.0	1.0	6		1	2	4:NA=141500
022	d1223022	SER	QC334956	112168	Water	13-APR-2006 01:29	5.0	1.0			1	2	1:NA=28560.0
023	d1223023	MS	QC334954	112168	Water	13-APR-2006 01:35	1.0	1.0			1	2	4:NA=151000
024	d1223024	MSD	QC334955	112168	Water	13-APR-2006 01:40	1.0	1.0			1	2	4:NA=147100
025	d1223025	PDS	QC334957	112168	Water	13-APR-2006 01:46	1.0	1.0			1	12	4:NA=155900
028	d1223028	CCV				13-APR-2006 02:02	1.0	1.0			1	13	
030	d1223030	CCB				13-APR-2006 02:14	1.0	1.0			1	2	

Stds used: 1=S3105 2=05WS0207 3=S3096 4=S3097 5=S3098 6=S3099 7=S3093 8=S3094 9=S3102 10=S3100 11=S3101 12=S2309 13=S3104

Analyst: Merwin Date: 4/17/6

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 13-APR-2006
Sequence: 56148292 (d1223)
Instrument ID: MET05

ICALBLK Filename: d1223003
Date Analyzed: 12-APR-2006
Time Analyzed: 23:43

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD	505366	469790	76302	421590	277303	472333
LOWER LIMIT	151610	140937	22890	126477	83191	141700
UPPER LIMIT	606439	563748	91562	505908	332764	566800

TYPE	SAMPLE	#						
ICB		012	503674	478232	76121	430840	283691	481558
ICSA		013	305478	300272	53355	259571	168899	325047
BLANK	QC334951	018	459248	432499	71160	390493	255832	442872
BS	QC334952	019	393100	368160	60602	335568	229053	403653
BSD	QC334953	020	393536	371917	60297	337793	222669	401724
MSS	185866-001	021	379562	377422	59071	319427	197418	385602
SER	QC334956	022	477173	457672	74031	402673	268972	468333
MS	QC334954	023	364379	362073	56115	304849	192662	378728
MSD	QC334955	024	364368	371432	56379	318890	204577	396801
PDS	QC334957	025	368487	369743	57420	310456	194774	384036
CCV		028	448183	435646	71290	378365	240092	436881
CCB		030	471881	453292	73312	392830	250297	439796

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Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 185866 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AS	CD	CR	CU	PB	HG	NI	AG	ZN	
185866-001	MET04	04/03/06 15:02	1.0						+				
185866-001	MET05	04/13/06 01:24	1.0	+	+	+	+	+		+	+	+	
QC334113	MET04	04/03/06 14:38	1.0						+				
QC334114	MET04	04/03/06 14:39	1.0						+				
QC334115	MET04	04/03/06 14:41	1.0						+				
QC334116	MET04	04/03/06 14:46	1.0						+				
QC334117	MET04	04/03/06 14:48	1.0						+				
QC334951	MET05	04/13/06 01:07	1.0										
QC334952	MET05	04/13/06 01:13	1.0	+	+	+	+	+		+	+	+	
QC334953	MET05	04/13/06 01:18	1.0	+	+	+	+	+		+	+	+	
QC334954	MET05	04/13/06 01:35	1.0	+	+	+	+	+		+	+	+	
QC334955	MET05	04/13/06 01:40	1.0	+	+	+	+	+		+	+	+	
QC334956	MET05	04/13/06 01:29	5.0	+	+	+	+	+		+	+	+	
QC334957	MET05	04/13/06 01:46	1.0	+	+	+	+	+		+	+	+	

Curtis & Tompkins Laboratories Sample Preparation Summary 08-APR-2006 14:03

Batch Number : 112168
Date Extracted: 08-APR-2006
Extracted by : Kevin Gaines
Prep Method : 200.8

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S2309
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185866-001		Treadwell & Rollo	Water	50	mL	50	1.000000	1				AG, AS, CD, (more)		
QC334951	BLANK		Water	50	mL	50	1.000000	1				ICAP		
QC334952	BS		Water	50	mL	50	1.000000	1	.5			ICAP		
QC334953	BSD		Water	50	mL	50	1.000000	1	.5			ICAP		
QC334954	MS	of 185866-001	Water	50	mL	50	1.000000	1	.5			ICAP		
QC334955	MSD	of 185866-001	Water	50	mL	50	1.000000	1	.5			ICAP		
QC334956	SER	of 185866-001	Water	50	mL	50	1.000000	1				ICAP		
QC334957	PDS	of 185866-001	Water	50	mL	50	1.000000	1				ICAP		

Prep Chemist: 4/8/06 Reviewed By: MW Date: 4/14/6

Relinquished By: 4/8/06 Received By: MW Date: 4/14/6

Water Digestion for ICP-MS Curtis & Tompkins, Ltd.

LIMS Batch #: 112168
Date Digested: 4/8/06
Digested by: KLA

Digestion Method
☒ EPA 200.8 for ICP-MS
☐ _____

BK 2288
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Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BLK	50	50		
B5				
B5D				
M3-01D				
M3D-01				
185866-01				

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90-95 degrees C)	95	KLA 4/8
.5 mL of spike solution was added to all spikes	92309	
concentrated HCl	02031 BAKER	
concentrated HNO3	B49053	
☐ filtered thru' Whatman # 541		

4/8/06
Extraction Chemist / Date

Continued from page ___
Continued on page ___

4/11/06
Reviewed by / Date

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

nst : MET04 Reviewer: ---
alnum : 46134704001 Date : 03-APR-2006 13:04 Type : WATER Inj Vol : 2000 uL
nits : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	111949	46134704002	Std02Rep1	03-APR-2006 13:06	S3072 (500X)
L2	111949	46134704003	Std03Rep1	03-APR-2006 13:08	S3072 (200X)
L3	111949	46134704004	Std04Rep1	03-APR-2006 13:09	S3072 (50X)
L4	111949	46134704005	Std05Rep1	03-APR-2006 13:12	S3072 (20X)
L5	111949	46134704006	Std06Rep1	03-APR-2006 13:13	S3072 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Mercury	51830	50726	47784	44961	43055	LINR	-0.0929	2.32E-5		47671	0.999	.99	

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INR=Linear regression
nstrument amount = a0 + response * a1 + response^2 * a2

46134704001

WinHg Database 1.3

File Utility Help

Protocol hgppb

Dataset/Proto 040306 /hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 2.32245e-5

C -9.28547e-2

Rho .999643

Type Linear

☑ Calibrated

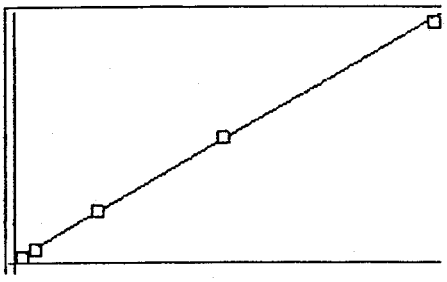
☑ Accepted

Accept

Rel. Abs.
430545

Accepted

New



Conc. 10.0

Include S1 Rep 1 ☑

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.105	-.105	-532	0	-531		
02	.20000	.148	-.052	10366	0%	10366		
03	.50000	.496	-.004	25364	0%	25363		
04	2.0000	2.13	.127	95568	0%	95567		
05	5.0000	5.13	.128	224806	0%	224805		
06	10.000	9.91	-.094	430546	0%	430545		

Ready NUM

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 4 13:04:32 03 Apr 06 HG

Hg .000 ppb -531
Bkgd 1 8943849

*** Standard: 2 Rep: 1 Seq: 5 13:06:17 03 Apr 06 HG

Hg .200 ppb 10366
Bkgd 1 8943843

*** Standard: 3 Rep: 1 Seq: 6 13:08:09 03 Apr 06 HG

Hg .500 ppb 25363
Bkgd 1 8942371

*** Standard: 4 Rep: 1 Seq: 7 13:09:58 03 Apr 06 HG

Hg 2.00 ppb 95567
Bkgd 1 8940124

*** Standard: 5 Rep: 1 Seq: 8 13:12:01 03 Apr 06 HG

Hg 5.00 ppb 224805
Bkgd 1 8937005

*** Standard: 6 Rep: 1 Seq: 9 13:13:45 03 Apr 06 HG

Hg 10.0 ppb 430545
Bkgd 1 8935794

*** Check Standard: 2 Ck2s3074 Seq: 10 13:19:05 03 Apr 06 HG
Line Flag Intensities
Hg 231417
Bkgd 1 8944482

*** Check Standard: 1 Ck1ICB Seq: 11 13:20:47 03 Apr 06 HG
Line Flag Intensities
Hg 81
Bkgd 1 8940777

*** Sample ID: qc334082 Seq: 12 13:22:33 03 Apr 06 HG
111949,1
Hg -.189 ppb -4152
Bkgd 1 8939647

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 46134793 Instrument: MET04 HydraAA HG Analyzer Begun: 03-APR-2006
Analytical Method: EPA 7470A SOP Version: HG_water_rv7
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	111955	CCV					03-APR-2006 14:33	1.0	1.0	1	5.000	46134704001	5.370		ug/L	107		
002	111955	CCB					03-APR-2006 14:35	1.0	1.0			46134704001	ND	0.20	ug/L			
003	111955	BLANK	QC334113		111955	Water	03-APR-2006 14:38	1.0	1.0			46134704001	ND	0.20	ug/L			
004	111955	BS	QC334114		111955	Water	03-APR-2006 14:39	1.0	1.0		5.000	46134704001	5.290	0.20	ug/L	106		
005	111955	BSD	QC334115		111955	Water	03-APR-2006 14:41	1.0	1.0		5.000	46134704001	5.200	0.20	ug/L	104	2	
006	111955	MSS	185861-011		111955	Water	03-APR-2006 14:43	1.0	1.0			46134704001	ND	0.20	ug/L			
007	111955	MS	QC334116	185861-011	111955	Water	03-APR-2006 14:46	1.0	1.0		5.000	46134704001	5.180	0.20	ug/L	104		
008	111955	MSD	QC334117	185861-011	111955	Water	03-APR-2006 14:48	1.0	1.0		5.000	46134704001	5.070	0.20	ug/L	101	2	
009	111955	SAMPLE	185861-008		111955	Water	03-APR-2006 14:50	1.0	1.0			46134704001	ND	0.20	ug/L			
010	111955	SAMPLE	185861-014		111955	Water	03-APR-2006 14:51	1.0	1.0			46134704001	ND	0.20	ug/L			
011	111955	SAMPLE	185862-001		111955	Water	03-APR-2006 14:53	1.0	1.0			46134704001	ND	0.20	ug/L			
012	111955	SAMPLE	185862-002		111955	Water	03-APR-2006 14:55	1.0	1.0			46134704001	3.2	0.20	ug/L			
013	111955	CCV					03-APR-2006 14:57	1.0	1.0	2	7.500	46134704001	7.800		ug/L	104		
014	111955	CCB					03-APR-2006 14:59	1.0	1.0			46134704001	ND	0.20	ug/L			
015	111955	SAMPLE	185864-001		111955	Water	03-APR-2006 15:01	1.0	1.0			46134704001	ND	0.20	ug/L			
016	111955	SAMPLE	185866-001		111955	Water	03-APR-2006 15:02	1.0	1.0			46134704001	ND	0.20	ug/L			
017	111955	SAMPLE	185890-001		111955	Water	03-APR-2006 15:04	1.0	1.0			46134704001	ND	0.20	ug/L			
018	111955	SAMPLE	185890-015		111955	Water	03-APR-2006 15:08	1.0	1.0			46134704001	ND	0.20	ug/L			
019	111955	SAMPLE	185890-016		111955	Water	03-APR-2006 15:10	1.0	1.0			46134704001	ND	0.20	ug/L			
020	111955	SAMPLE	185897-004		111955	Filtra	03-APR-2006 15:12	1.0	1.0			46134704001	ND	0.20	ug/L			
021	111955	SAMPLE	185897-006		111955	Filtra	03-APR-2006 15:14	1.0	1.0			46134704001	ND	0.20	ug/L			
022	111955	SAMPLE	185897-010		111955	Filtra	03-APR-2006 15:16	1.0	1.0			46134704001	ND	0.20	ug/L			
023	111955	SAMPLE	185897-013		111955	Filtra	03-APR-2006 15:18	1.0	1.0			46134704001	ND	0.20	ug/L			
024	111955	SAMPLE	185897-015		111955	Filtra	03-APR-2006 15:20	1.0	1.0			46134704001	ND	0.20	ug/L			
025	111955	CCV					03-APR-2006 15:21	1.0	1.0	3	2.500	46134704001	2.740		ug/L	110		
026	111955	CCB					03-APR-2006 15:24	1.0	1.0			46134704001	ND	0.20	ug/L			
027	111955	SAMPLE	185897-013		111955	Water	03-APR-2006 15:26	1.0	1.0			46134704001	ND	0.20	ug/L			
028	111955	SAMPLE	185897-015		111955	Water	03-APR-2006 15:28	1.0	1.0			46134704001	ND	0.20	ug/L			
029	111955	SAMPLE	185909-001		111955	Filtra	03-APR-2006 15:30	1.0	1.0			46134704001	0.25	0.20	ug/L			
030	111955	SAMPLE	185937-001		111955	Filtra	03-APR-2006 15:31	1.0	1.0			46134704001	ND	0.20	ug/L			
031	111955	SAMPLE	185937-001		111955	Water	03-APR-2006 15:33	1.0	1.0			46134704001	ND	0.20	ug/L			
032	111955	CCV					03-APR-2006 15:35	1.0	1.0	1	5.000	46134704001	5.450		ug/L	109		
033	111955	CCB					03-APR-2006 15:38	1.0	1.0			46134704001	ND	0.20	ug/L			

Stds used: 1=S3076 2=S3077 3=S3075

Analyst: [signature] Date: 4/3/2006

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

equence: 46134704 Instrument: MET04 HydraAA HG Analyzer Begun: 03-APR-2006
nalytical Method: EPA 7470A SOP Version: HG_water_rv7
nalyte: Mercury

	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
1	111949	ICALBLK	Std01Rep1				03-APR-2006 13:04	1.0	1.0									
2	111949	ICAL	Std02Rep1				03-APR-2006 13:06	1.0	1.0									
3	111949	ICAL	Std03Rep1				03-APR-2006 13:08	1.0	1.0									
4	111949	ICAL	Std04Rep1				03-APR-2006 13:09	1.0	1.0									
5	111949	ICAL	Std05Rep1				03-APR-2006 13:12	1.0	1.0									
6	111949	ICAL	Std06Rep1				03-APR-2006 13:13	1.0	1.0									
7	111949	ICV					03-APR-2006 13:19	1.0	1.0	2	5.000	46134704001	5.280		ug/L	106		
8	111949	ICB					03-APR-2006 13:20	1.0	1.0			46134704001	ND	0.20	ug/L			
9	111949	BLANK	QC334082		111949	Water	03-APR-2006 13:22	1.0	1.0			46134704001	ND	0.20	ug/L			
0	111949	BS	QC334083		111949	Water	03-APR-2006 13:24	1.0	1.0		5.000	46134704001	5.070	0.20	ug/L	101		
1	111949	BSD	QC334084		111949	Water	03-APR-2006 13:26	1.0	1.0		5.000	46134704001	5.190	0.20	ug/L	104	2	
2	111949	MSS	185939-001		111949	Filtra	03-APR-2006 13:27	1.0	1.0			46134704001	ND	0.20	ug/L			
3	111949	MS	QC334085	185939-001	111949	Filtra	03-APR-2006 13:30	1.0	1.0		5.000	46134704001	5.780	0.20	ug/L	116		
4	111949	MSD	QC334086	185939-001	111949	Filtra	03-APR-2006 13:32	1.0	1.0		5.000	46134704001	5.690	0.20	ug/L	114	2	
5	111949	SAMPLE	185885-001		111949	Filtra	03-APR-2006 13:34	1.0	1.0			46134704001	ND	0.20	ug/L			
6	111949	SAMPLE	185885-002		111949	Filtra	03-APR-2006 13:36	1.0	1.0			46134704001	ND	0.20	ug/L			
7	111949	SAMPLE	185885-003		111949	Filtra	03-APR-2006 13:38	1.0	1.0			46134704001	ND	0.20	ug/L			
8	111949	SAMPLE	185885-004		111949	Filtra	03-APR-2006 13:41	1.0	1.0			46134704001	ND	0.20	ug/L			
9	111949	CCV					03-APR-2006 13:43	1.0	1.0	3	2.500	46134704001	2.610		ug/L	104		
0	111949	CCB					03-APR-2006 13:45	1.0	1.0			46134704001	ND	0.20	ug/L			
1	111949	SAMPLE	185885-005		111949	Filtra	03-APR-2006 13:47	1.0	1.0			46134704001	ND	0.20	ug/L			
2	111949	SAMPLE	185885-006		111949	Filtra	03-APR-2006 13:49	1.0	1.0			46134704001	ND	0.20	ug/L			
3	111949	SAMPLE	185885-007		111949	Filtra	03-APR-2006 13:51	1.0	1.0			46134704001	ND	0.20	ug/L			
4	111949	SAMPLE	185905-003		111949	Filtra	03-APR-2006 13:52	1.0	1.0			46134704001	ND	0.20	ug/L			
5	111949	SAMPLE	185907-001		111949	Filtra	03-APR-2006 13:55	1.0	1.0			46134704001	ND	0.20	ug/L			
6	111949	SAMPLE	185907-002		111949	Filtra	03-APR-2006 13:57	1.0	1.0			46134704001	ND	0.20	ug/L			
7	111949	SAMPLE	185907-003		111949	Filtra	03-APR-2006 13:59	1.0	1.0			46134704001	ND	0.20	ug/L			
8	111949	SAMPLE	185907-004		111949	Filtra	03-APR-2006 14:01	1.0	1.0			46134704001	0.32	0.20	ug/L			
9	111949	SAMPLE	185907-006		111949	Filtra	03-APR-2006 14:03	1.0	1.0			46134704001	ND	0.20	ug/L			
0	111949	SAMPLE	185914-003		111949	Water	03-APR-2006 14:05	1.0	1.0			46134704001	ND	0.20	ug/L			
1	111949	CCV					03-APR-2006 14:07	1.0	1.0	4	5.000	46134704001	5.310		ug/L	106		
2	111949	CCB					03-APR-2006 14:09	1.0	1.0			46134704001	ND	0.20	ug/L			
3	111949	SAMPLE	185928-001		111949	Filtra	03-APR-2006 14:11	1.0	1.0			46134704001	ND	0.20	ug/L			
4	111949	SAMPLE	185928-002		111949	Filtra	03-APR-2006 14:13	1.0	1.0			46134704001	ND	0.20	ug/L			
5	111949	SAMPLE	185928-003		111949	Filtra	03-APR-2006 14:15	1.0	1.0			46134704001	ND	0.20	ug/L			
6	111949	SAMPLE	185928-004		111949	Filtra	03-APR-2006 14:17	1.0	1.0			46134704001	ND	0.20	ug/L			
7	111949	SAMPLE	185928-005		111949	Filtra	03-APR-2006 14:19	1.0	1.0			46134704001	ND	0.20	ug/L			
8	111949	CCV					03-APR-2006 14:21	1.0	1.0	5	7.500	46134704001	7.720		ug/L	103		
9	111949	CCB					03-APR-2006 14:24	1.0	1.0			46134704001	ND	0.20	ug/L			

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tds used: 1=S3073 2=S3074 3=S3075 4=S3076 5=S3077

nalyst: _____ Date: 4/3/2006

Curtis & Tompkins Laboratories Sample Preparation Summary 03-APR-2006 12:35

Batch Number : 111955
Date Extracted: 03-APR-2006
Extracted by : Kale Clauson
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : mL
Clean-up :

Spike #1 ID : S3072
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
185861-008			Blasland, Bouck & Lee	Water	50	mL	50	1.000000	1				T26/HG		
185861-011			Blasland, Bouck & Lee	Water	50	mL	50	1.000000	1				T26/HG		
185861-014			Blasland, Bouck & Lee	Water	50	mL	50	1.000000	1				T26/HG		
185862-001			Blasland, Bouck & Lee	Water	50	mL	50	1.000000	1				PP13/HG		
185862-002			Blasland, Bouck & Lee	Water	50	mL	50	1.000000	1				PP13/HG		
185864-001			Polymatrix	Water	50	mL	50	1.000000	1				HG		
185866-001			Treadwell & Rollo	Water	50	mL	50	1.000000	1				HG		
185890-001			Blasland, Bouck & Lee	Water	50	mL	50	1.000000	1				T26/HG		
185890-015			Blasland, Bouck & Lee	Water	50	mL	50	1.000000	1				T26/HG		
185890-016			Blasland, Bouck & Lee	Water	50	mL	50	1.000000	1				T26/HG		
185897-004			Montezuma Wetlands LLC	Filtrate	50	mL	50	1.000000	1				HG		
185897-006			Montezuma Wetlands LLC	Filtrate	50	mL	50	1.000000	1				HG		
185897-010			Montezuma Wetlands LLC	Filtrate	50	mL	50	1.000000	1				HG		
185897-013			Montezuma Wetlands LLC	Filtrate	50	mL	50	1.000000	1				HG		
185897-013			Montezuma Wetlands LLC	Water	50	mL	50	1.000000	1				HG		
185897-015			Montezuma Wetlands LLC	Filtrate	50	mL	50	1.000000	1				HG		
185897-015			Montezuma Wetlands LLC	Water	50	mL	50	1.000000	1				HG		
185909-001			Baseline Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
185937-001			Iris Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
185937-001			Iris Environmental	Water	50	mL	50	1.000000	1				T26/HG		
QC334113	BLANK			Water	50	mL	50	1.000000	1				HG		
QC334114	BS			Water	50	mL	50	1.000000	1	2.5			HG		
QC334115	BSD			Water	50	mL	50	1.000000	1	2.5			HG		
QC334116	MS	of 185861-011		Water	50	mL	50	1.000000	1	2.5			HG		
QC334117	MSD	of 185861-011		Water	50	mL	50	1.000000	1	2.5			HG		
QC334118	SER	of 185861-011		Water	50	mL	50	1.000000	1				HG		
QC334119	PDS	of 185861-011		Water	50	mL	50	1.000000	1				HG		

Prep Chemist: _____ Reviewed By: _____ Date: 4/3/06

Relinquished By: _____ Received By: _____ Date: 4/3/2006

Water Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: ~~111954~~ KMC 4/3 111955

Date Digested: 4/3/2006

Digested by: KMC

Digestion Method

☒ EPA 7470A/ EPA 245.1

☐ _____

BK 2277

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Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
185861 - 008 D	50	50	N	WATER
011 MSS A				
014 D				
185862 - 001 A				
002				
185864 - 001				
185866 - 001 D				
185890 - 001 D				
015 A				
016				
185897 - 004				FILTRATE COMP ABCD
006				ABCD
KMC 4/3 ~~010~~ 010				ABCD
013				GH
015				GH
185897 - 013				WATER COMP GH
015				GH
185909 - 001 B				FILTRATE
185937 - 001 D				
185937 - 001 B				WATER
BLANK				
BS				
BSD				
MS 185861 - 011				
MSD 185861 - 011				

	Reagent ID/ LIMS# / Time	Initials / Date
2.5 mL of spike solution was added to all spikes	S3072	KMC 4/3/06
ICAL Source WS#	S3072	
ICV / CCV WS#	S3074/75/76/77	
Digestion of Samples & Standards: Time ON / Temperature ON	1200 / 95°C	
Time OFF/ Temperature OFF	200 / 95°C	
concentrated H_2SO_4	B03032	
concentrated HNO_3	B49053	
5% $KMnO_4$	K 032206	
5% $K_2S_2O_8$	K_2 021406	
NaCl.hydroxylamine hydrochloride	Hy 032406	
Stannous Chloride	$SnCl_2$ 032806	
☐ filtered thru' 0.45 um syringe filter		

4/3/06

Prep Chemist / Date

Continued from page 56

Continued on page

4/3/06

Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 6020 Water 200.8
As of 04/21/06

Analyte	Units	MET06 A	MET06 E	MET06 H	MET05
Aluminum	ug/L	0.40			1.0
Antimony	ug/L	0.0093			0.078
Arsenic	ug/L		0.034		0.65
Barium	ug/L	0.023			0.23
Beryllium	ug/L	0.017			0.055
Cadmium	ug/L	0.0058			0.14
Calcium	ug/L	5.6			15
Chromium	ug/L		0.038		0.085
Cobalt	ug/L		0.0072		0.034
Copper	ug/L		0.028		0.31
Iron	ug/L			1.9	4.2
Lead	ug/L	0.013			0.24
Magnesium	ug/L	0.73			2.1
Manganese	ug/L		0.011		0.082
Molybdenum	ug/L	0.0063			0.062
Nickel	ug/L		0.029		0.16
Potassium	ug/L	5.3			8.9
Selenium	ug/L			0.027	0.35
Silver	ug/L	0.0079			0.041
Sodium	ug/L		2.7		15
Thallium	ug/L	0.030			0.073
Vanadium	ug/L		0.026		0.15
Zinc	ug/L		0.062		0.52

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 7470A Water
As of 04/21/06

Analyte	Units	MET04
Mercury	ug/L	0.080

GENERAL CHEMISTRY

Curtis & Tompkins, Ltd.

Total Oil & Grease (HEM)

Lab #:	185866	Location:	Presidio
Client:	Treadwell & Rollo	Analysis:	EPA 1664A
Project#:	2893.04.51		
Analyte:	Oil & Grease (HEM)	Batch#:	112354
Field ID:	WT032906	Sampled:	03/29/06
Matrix:	Water	Received:	03/29/06
Units:	mg/L	Analyzed:	04/13/06

Type	Lab ID	Result	RL	Diln Fac
SAMPLE	185866-001	ND	5.15	1.029
BLANK	QC335641	ND	5.00	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Oil & Grease (HEM)

Lab #:	185866	Location:	Presidio
Client:	Treadwell & Rollo	Analysis:	EPA 1664A
Project#:	2893.04.51		
Analyte:	Oil & Grease (HEM)	Diln Fac:	1.000
Matrix:	Water	Batch#:	112354
Units:	mg/L	Analyzed:	04/13/06

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC335642	40.00	41.50	104	78-114		
BSD	QC335643	40.00	40.60	102	78-114	2	18

RPD= Relative Percent Difference

Analysis: **Hexane Extractable Material (Total)**
Method: **EPA 1664A**
Matrix: Water
Silica Gel: No
SOP#: 1664_rv3.doc

Prep Date: **13-Apr-06**
Analysis Date: **13-Apr-06**
Batch #: **112354**
Analyst: SY

BATCH QC DATA

Sample	Sample Vol (mL)	Dil'n Factor (1000/vol)	Beaker Mass (g)	Total Mass (g)	Residue Mass (g)	**Report** (mg/L)	Reporting Limit (mg/L)	Spike Used (g)	**Recovery,%**	**RPD,%**
MB	1000	1.00	2.5153	2.5155	0.0002	ND	5.00			
BS	1000	1.00	2.5225	2.5640	0.0415	41.500	5.00	0.0400	104	
BSD	1000	1.00	2.5016	2.5422	0.0406	40.600	5.00	0.0400	102	2

SAMPLE DATA

Sample	Sample Vol (mL)	Dil'n Factor (1000/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report** (mg/L)	Reporting Limit (mg/L)	IDF (1000/Vs)
185814-1	1065	0.94	2.5398	2.5599	0.0201	18.873	4.69	0.939
185814-2	1030	0.94	2.5425	2.5455	0.0030	ND	4.85	0.971
185814-3	1060	0.94	2.5426	2.5626	0.0200	18.868	4.72	0.943
185847-1	1060	0.94	2.5554	2.5556	0.0002	ND	4.72	0.943
185847-2	1000	0.94	2.5473	2.5489	0.0016	ND	5.00	1.000
185859-1	1065	0.94	2.5444	2.5454	0.0010	ND	4.69	0.939
185860-1	1065	0.94	2.5598	2.5598	0.0000	ND	4.69	0.939
185866-1	972	0.94	2.5536	2.5541	0.0005	ND	5.14	1.029
185871-3	800	0.94	2.5447	2.5490	0.0043	ND	6.25	1.250
185941-1	1065	0.94	2.5423	2.5450	0.0027	ND	4.69	0.939
185946-3	1065	0.94	2.5541	2.5635	0.0094	8.826	4.69	0.939
185932-5	1000	0.94	2.5613	2.5789	0.0176	17.600	5.00	1.000
185961-1	505	0.94	2.5726	2.5876	0.0150	29.703	9.90	1.980
185961-2	250	4.00	2.5551	2.6620	0.1069	427.600	20.00	4.000
186064-1	1065	0.94	2.5549	2.5775	0.0226	21.221	4.69	0.939
186064-2	1060	0.94	2.4900	2.4917	0.0017	ND	4.72	0.943

VTCW 4/13/06

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Note: RPD calculation includes correction for different spiking levels.

Reviewed by/ Date: _____

QC Limits	RPD	Recovery
LCS/ BS/ BSD	18	78 - 114
MS/ MSD	28	68 - 124

Oil Grease (H.E.M.) Benchbook EPA 1664A Curtis & Tompkins, Ltd.

LIMS Batch #: 112354 Date: 4-13-06 Benchbook#: **BK 2256**
Matrix: Water Time: 8:00AM Page: **18**

Spike SS#: S29:2 Hexane Manufacturer & Lot# B42E31
Spike SS Conc (mg/L): 8000 Extraction Disc Lot#: 405100
Into Final Vol (mL): 1000 Silica Gel Cleanup Used (Y / N): N
Spike Conc (mg/L): 40 = I Silica Gel Manufacturer & Lot# NA

	Sample # / Letter	pH	Sample Vol (mL)	Mass (g)	Mass (g)*	Mass (g)*	Comments
1	MB	2	1000	2.5153	2.5155	2.5156	
	BS	↓	↓	2.5225	2.5640	2.5640	
	BSD		↓	2.5016	2.5422	2.5421	
	185859 -1 J		1065	2.5444	2.5454	2.5454	
5	185860 -1 J		1065	2.5598	2.5598	2.5599	
	185941 -1 K		1065	2.5423	2.5450	2.5450	
	185814 -1 D		1065	2.5398	2.5599	2.5599	
	185866 -1 F		962972	2.5536	2.5541	2.5540	
	185946 -3 A		1065	2.5541	2.5635	2.5634	
10	185814 -2 D		1030 ~~1065~~ SY 13	2.5425	2.5455	2.5457	
SY 185064	~~186064 -1 J~~ -3 SY		1065	2.5549	2.5775	2.5775	Sample no.: 186064-1
	~~186064 -1 SY~~		1060	2.5426	2.5626	2.5626	Sample: 185814-3
	186064 -2 F		1060	2.4900	2.4917	2.4917	
	185847 -1 F		1060	2.5554	2.5556	2.556	
15	185932 -5		1000	2.5613	2.5789	2.5788	
	185871 -3 A		800	2.5447	2.5490	2.5487	
	185847 -2 B		1000	2.5473	2.5489	2.5490	
	185961 -1 A		SY ~~530~~ 505	2.5726	2.5876	2.5874	
	*185961 -2 A	↓	250	2.5551	~~2.62~~	2.6620	2.6624
20	MB-SG	2	1000	2.5013	2.5618	2.5619	
	BS-SG	↓	↓	2.5201	2.5368	2.5363	
	BSD-SG		↓	2.5630	2.5803	2.5803	
	185961-2ASG	↓	250	2.5137	2.5158	2.5160	
	* 185961-1 →	505 ml	took 45	min to go	through →	sample too dirty, cloudy.	
	* 185961-2 →	only	250 ml	was used →	Sample very	dirty, thick, and had	
		all	chances of	clogging	the tubes	SY 4.13.06	

* Constant weight must be within ± 0.0005g from previous reading.

Weight Set Number: HEMI, 36806

	Openning Wt.	Ending Wt.	Limits
2 mg	0.0019	0.0019	(0.0018 to 0.0022 g)
1 g	1.0002	0.9998	(0.9950 to 1.0050 g)
5 g	4.9999	4.9999	(4.9750 to 5.0250 g)

SY 4.13.06
Analyst / Date

4-13-06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 112354
Date Started: 13-APR-2006
Batched by : Sunitha Yerragodula

Analysis : 1664T
Bgroup : N/A
Department : Wet Chemistry

Sample	Type	Client	Matrix	Analyses	Due Date
185814-001		Standard Iron & Me	Water	1664T	07-APR-2006
185814-002		Standard Iron & Me	Water	1664T	07-APR-2006
185814-003		Standard Iron & Me	Water	1664T	07-APR-2006
185847-001		Safeway Milk Plant	Water	1664T	07-APR-2006
185847-002		Safeway Milk Plant	Water	1664T	07-APR-2006
185859-001		Pacific Custom Mat	Water	1664T	10-APR-2006
185860-001		Pacific Custom Mat	Water	1664T	10-APR-2006
185866-001		Treadwell & Rollo	Water	1664T	10-APR-2006
185871-003		Union Sanitary Dis	Water	1664T	10-APR-2006
185932-005		Polymatrix	Water	1664T	12-APR-2006
185941-001		Cape Henry	Water	1664T	12-APR-2006
185946-003		IMTT	Water	1664T	13-APR-2006
185961-001		Union Sanitary Dis	Water	1664T	13-APR-2006
185961-002		Union Sanitary Dis	Water	1664T	13-APR-2006
186064-001		SAIC	Water	1664T	13-APR-2006
186064-002		SAIC	Water	1664T	13-APR-2006
QC335641	BLANK		Water	1664T	
QC335642	BS		Water	1664T	
QC335643	BSD		Water	1664T	

Hexane Extractable Material
EPA 1664
Method Detection Limit Study

Method Detection Limit Study

Analysis:	Oil & Grease	Prep Date:	3/21/2005
Method:	**EPA 1664** w/o silica gel	Analysis Date:	3/21/2005
Matrix:	Water	Analyst:	SY

Conc. (mg/L)	1.8
Analyzed	3/21/2005
1	1.9
2	1.8
3	2.0
4	1.7
5	1.3
6	2.0
7	1.9
8	
STDEVP	0.226779
Student-T value	3.14

(Student-T value for 7 replicates = 3.143, for 8 replicates = 2.998)

MDL (mg/L)	**0.7**
RL (mg/L)	5.0
Status	PASS

Curtis & Tompkins, Ltd.

pH

Lab #:	185866	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 9040B
Analyte:	pH	Diln Fac:	1.000
Field ID:	WT032906	Batch#:	111852
Lab ID:	185866-001	Sampled:	03/29/06 11:11
Matrix:	Water	Received:	03/29/06
Units:	SU	Analyzed:	03/30/06 10:30

Result	RL
7.4	1.0

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

pH

Lab #:	185866	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 9040B
Analyte:	pH	Units:	SU
Field ID:	WT032906	Diln Fac:	1.000
Type:	SDUP	Batch#:	111852
MSS Lab ID:	185866-001	Sampled:	03/29/06 11:11
Lab ID:	QC333709	Received:	03/29/06
Matrix:	Water	Analyzed:	03/30/06 10:30

MSS Result	Result	RL	RPD	Lim
7.360	7.280	1.000	1	20

RL= Reporting Limit
RPD= Relative Percent Difference

pH Analysis Benchbook **Curtis & Tompkins, Ltd.**

LIMS Batch #: M1852 ~~11871~~ RS3/30 Date: 3-30-06 Benchbook#: **BK 2294**
Matrix: H2O Time: 10:30 Page: **20**

Method (check one): ☑ Water (EPA 9040b/ 150.1) ☐ Soil (EPA 9045c)

Cal Std-1 ph: 4 SS#: 055514 Slope: 97.5
Cal Std-2 ph: 7 SS#: 5177 (slope limits: 92 - 102)
Cal Std-3 ph: 10 SS#: 31169

Run	Sample # / Letter	pH (S.U.)	2nd Reading* (water only)	*Comments
1	ICV	6.98		ICV/CCV => 0455381
	185866-001A	7.36	7.36	
	solvp -001 ↓	7.28	7.29	RPD=> 1.09 %
	185867-001 K	7.14	7.14	
5	-002	7.21	7.20	
	-003	7.30	7.30	
	-004	7.13	7.12	
	-005	7.16	7.18	
	-006	7.26	7.27	
10	-007	6.96	6.95	
	-008 ↓	7.15	7.16	
	CCV	7.06		
	185877-001 K1	8.35	8.37	
	185879-001 H	7.14	7.15	
15	-002 E	6.99	6.99	
	-003 E	7.00	6.99	
	-004 F	7.42	7.41	
	-005 E	6.59	6.60	
	-006	7.22	7.23	
20	-007 ↓	7.84	7.85	
	185867 ~~CCV~~ RS3/30 -009 K	7.18	7.20	
	~~185858 CCV~~ RS3/30 -010 K	~~7.10~~ RS 3/30 6.69	6.67	
	-011	6.99	6.98	
	-012	~~7.04~~	~~7.04~~	3/30/06
25	CCV	7.01		
			RS 3/30/06	

* 2nd aliquot must be within 0.1 SU

RS Ciffa 3/30/06
Analyst / Date

Jason Spa 3-30-6
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Curtis & Tompkins, Ltd.

Batch Number: 111852
Date Started: 30-MAR-2006
Batched by : Radia Shiffa

Analysis : PH
Bgroup : N/A
Department : Wet Chemistry

Sample	Type	Client	Matrix	Analyses	Due Date
185866-001		Treadwell & Rollo	Water	PH	10-APR-2006
185867-001		PES Environmental,	Water	PH	04-APR-2006
185867-002		PES Environmental,	Water	PH	04-APR-2006
185867-003		PES Environmental,	Water	PH	04-APR-2006
185867-004		PES Environmental,	Water	PH	04-APR-2006
185867-005		PES Environmental,	Water	PH	04-APR-2006
185867-006		PES Environmental,	Water	PH	04-APR-2006
185867-007		PES Environmental,	Water	PH	04-APR-2006
185867-008		PES Environmental,	Water	PH	04-APR-2006
185867-009		PES Environmental,	Water	PH	04-APR-2006
185867-010		PES Environmental,	Water	PH	04-APR-2006
185867-011		PES Environmental,	Water	PH	04-APR-2006
185867-012		PES Environmental,	Water	PH	04-APR-2006
185877-001		Tetra Tech EC, Inc	Water	PH	05-APR-2006
185879-001		LFR Levine Fricke	Water	PH	04-APR-2006
185879-002		LFR Levine Fricke	Water	PH	04-APR-2006
185879-003		LFR Levine Fricke	Water	PH	04-APR-2006
185879-004		LFR Levine Fricke	Water	PH	04-APR-2006
185879-005		LFR Levine Fricke	Water	PH	04-APR-2006
185879-006		LFR Levine Fricke	Water	PH	04-APR-2006
185879-007		LFR Levine Fricke	Water	PH	04-APR-2006
QC333709	SDUP of 185866-001		Water	PH	

Curtis & Tompkins, Ltd.

Total Cyanide

Lab #:	185866	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 335.2
Analyte:	Cyanide	Batch#:	112185
Field ID:	WT032906	Sampled:	03/29/06
Matrix:	Water	Received:	03/29/06
Units:	mg/L	Analyzed:	04/10/06
Diln Fac:	1.000		

Type	Lab ID	Result	RL
SAMPLE	185866-001	ND	0.01
BLANK	QC335034	ND	0.01

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Cyanide

Lab #:	185866	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 335.2
Analyte:	Cyanide	Diln Fac:	1.000
Field ID:	WT032906	Batch#:	112185
MSS Lab ID:	185866-001	Sampled:	03/29/06
Matrix:	Water	Received:	03/29/06
Units:	mg/L	Analyzed:	04/10/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC335035	<0.01000	0.2020	0.2290	107	65-135		
MSD	QC335036		0.2020	0.2094	97	65-135	9	20
LCS	QC335037		0.2020	0.2034	101	75-125		
LCS	QC335038		0.1010	0.09970	99	75-125		

RPD= Relative Percent Difference

Analysis:	**Cyanide**	Matrix:	Water
Method:	**EPA 335.2** / SMWW 4500CN-E	Batch:	**112185**
Instrument:	HP UV-VIS Spectrometer	Prep Date:	**4/10/2006**
Wavelength:	578 nm	Analysis Date:	**4/10/2006**
SOP#:	CN_335_rv8.doc	Analyst:	DMc

INITIAL CALIBRATION DATA

Calibration Date: 7/5/05

Conc (mg/L)	ABS	RF
0.00000	-0.0009	
0.00884	0.0086	0.972851
0.01768	0.0195	1.102941
0.05304	0.0618	1.165158
0.08840	0.1033	1.168552
0.14144	0.1679	1.187076
0.17680	0.2081	1.177036
0.26520	0.3195	1.204751

Correlation Coefficient (r):	0.9999
Avg Rf:	1.139766
%RSD:	7.0

Note: Average Rf used to calculate sample results.

CONTINUING CALIBRATION DATA

	ABS	Conc (mg/L)	True (mg/L)	Recovery	CV Limits
ICV	0.1378	0.1209	0.1210	100%	90 - 110%
ICB	-0.0001	-0.0001	0.0000		
CCV	0.1346	0.1181	0.1210	98%	90 - 110%
CCB	-0.0010	-0.0009	0.0000		

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Analysis: **Cyanide**
Method: **EPA 335.2** / SMWW 4500CN-E
Instrument: HP UV-VIS Spectrometer
Wavelength: 578 nm

Matrix: Water
Batch: **112185**
Prep Date: **4/10/2006**
Analysis Date: **4/10/2006**
Analyst: DMc

SAMPLE & BATCH QC DATA

Sample ID	Vol (mL) Distilled	Final Distill Vol (mL)	Distillate Colored (mL)	Instrument Dilution	ABS	**Report mg/L**	Reporting Limit (mg/L)	Vol Spike Added (mL)	Std Conc. (mg/L)	Spiked @ (mg/L)	**% Rec**	**% RPD**
MB	50.0	50.0	20.0	1.00	-0.0010	**ND**	0.010					
LCS	50.0	50.0	20.0	1.00	0.2318	**0.2034**	0.010	0.5	20.2	0.202	**101**	
LCS	50.0	50.0	20.0	1.00	0.1136	**0.0997**	0.010	0.250	20.2	0.101	**99**	
185866-1	50.0	50.0	20.0	1.00	0.0158	**0.0139**	0.010					
185866-1ms	50.0	50.0	20.0	1.00	0.2610	**0.2290**	0.010	0.5	20.2	0.202	**107**	
185866-1msd	50.0	50.0	20.0	1.00	0.2387	**0.2094**	0.010	0.5	20.2	0.202	**97**	**9**
185755-1	50.0	50.0	20.0	1.00	0.0044	**ND**	0.010					
185755-1am	50.0	50.0	20.0	1.00	0.0049	**ND**	0.010					
185932-5	50.0	50.0	20.0	1.00	0.0226	**0.0198**	0.010					
185941-1	50.0	50.0	20.0	1.00	0.0005	**ND**	0.010					

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QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	80 - 120
MS/ MSD	20	69 - 120

Reviewed by/ Date: 4.10.06

---) **Quantitation Results Report** (---

Date : ~~03-28~~-2006 4-10
Time : 12:59:01 4-10-06
Operator : Not Entered

File Name : Data not stored yet

Sample Name : cyanide
Solvent Name : CAL 7/5/05
Conc Units : mg/L
Dil. Factor : 1.00

Analytical Wavelength : 578 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

SAMPLE #	Sample Name	Wavelength	Func. Res.	Concentratio
1	ICB	Analytical	-0.0001	0.00000
2	ICV	Analytical	+0.1378	0.11554
3	185755-1	Analytical	+0.0044	0.00372
4	185755-1A	Analytical	+0.0049	0.00415
5	185866-1	Analytical	+0.0158	0.01322
6	185866-1MS	Analytical	+0.2610	0.21891
7	185866-1MSD	Analytical	+0.2387	0.20019
8	185932-5	Analytical	+0.0226	0.01896
9	185941-1	Analytical	+0.0005	4.223E-04
10	LCS	Analytical	+0.2318	0.19437
11	LCS	Analytical	+0.1136	0.09526
12	MB	Analytical	-0.0010	0.00000
13	CCV	Analytical	+0.1346	0.11284
14	CCB	Analytical	-0.0010	0.00000

---> Standard Calibration Report <---

Date : ~~03-28~~ 4-10-2006
Time : 13:00:00 4-10-06
Operator : Not Entered

File Name : C:\UV\DATA\MDCN705.STD

Sample Name : cyanide
Solvent Name : CAL 7/5/05
Conc Units : mg/L

Analytical Wavelength : 578 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

Analytical Function Concentration = +8.387E-01 * Absorbance

STD #	Concentration	Absorbance	% Error
1	0.00000	-.0009	*****
2	0.00884	0.0086	+22.699 %
3	0.01768	0.0195	+8.106 %
4	0.05304	0.0618	+2.340 %
5	0.08840	0.1033	+2.023 %
6	0.14144	0.1679	+0.471 %
7	0.17680	0.2081	+1.290 %
8	0.26520	0.3195	-1.022 %

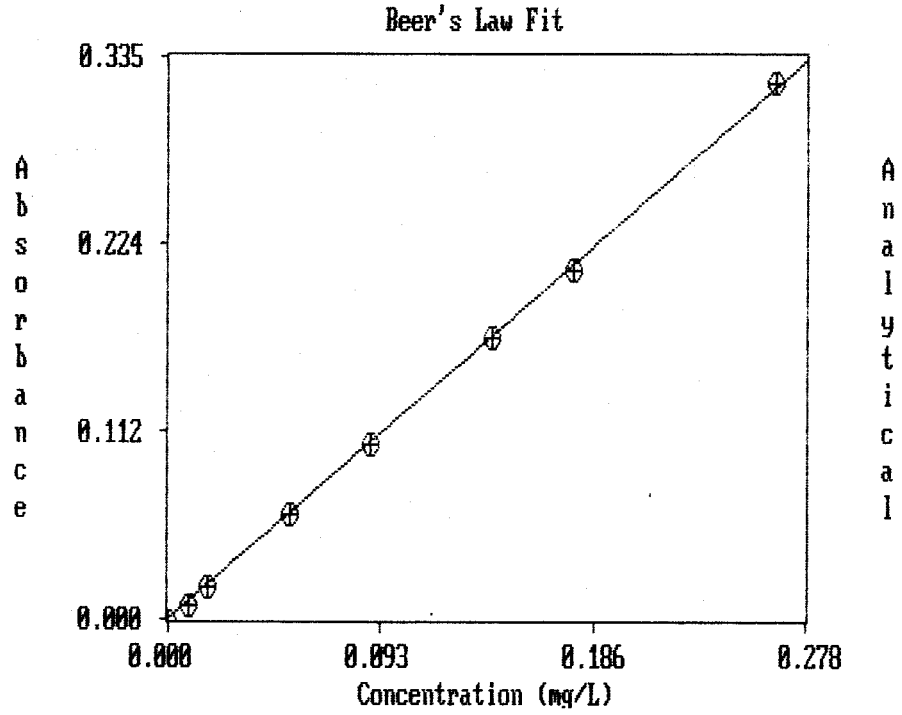
Date : ~~03-28~~ 4-10-2006
Time : 13:00:02 4-10-06 dm
Operator : Not Entered

---> Standard Calibration Report <---

File Name : C:\UV\DATA\MDCN705.STD

Sample Name : cyanide
Solvent Name : CAL 7/5/05
Conc Units : mg/L

Analytical Wavelength : 578 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds



CN - EPA 335.2M / 9010-9014 B112185

Sample	Vol (ml)	Final Vol (ml)	Vol (ml) for Color	ABS
185755-1A	50	50	20	.0044
-1AMEN				.0049
185866-1 B				.058
-1MS	+.5ml (20.2µg/ml dilu of 52649, 1ml → 50ml)			.260
-1MSD	same as MS			.2387
185932-5 DDCE				.0226
185941-1D				.0005
LCS	same as MS			.2358
LCS	same as MS + 2			.1136
MB				-.0010
ICB				-.0001
ICV	1.5ml (20.2ug/ml dilu of 82649)	-250	20	.1378 TU = .12 mg/L
CCV				.1346
CCB				-.0010

tests for Cl^- & $S^=$ negative
pH adj >12
Sulfamic acid added to all sample.

Continued on Page

Read and Understood By

Signed 4-10-06 Date 78 Signed 4.10.06 Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 112185
Date Started: 10-APR-2006
Batched by : Dennis McCanna

Analysis : AMENABLE CYANIDE
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
185755-001			METALCO	Water	AMENABLE CYANIDE	04-APR-2006
185866-001			Treadwell & Rollo	Water	CYANIDE	10-APR-2006
185932-005			Polymatrix	Water	CYANIDE	12-APR-2006
185941-001			Cape Henry	Water	CYANIDE	12-APR-2006
QC335034	BLANK			Water	CYANIDE	
QC335035	MS	of 185866-001		Water	CYANIDE	
QC335036	MSD	of 185866-001		Water	CYANIDE	
QC335037	LCS			Water	CYANIDE	
QC335038	LCS			Water	CYANIDE	

Method Detection Limit Study

Analysis:	**Cyanide**	Matrix:	**Water**
Method:	EPA 335.2 mod*	Analysis Date:	8/24/2005
Instrument:	HP UV/VIS Spectrometer	Analyst:	DMc
	* using the midi-distillation apparatus		

Concentration:	0.0195	mg/L
1	0.0215	
2	0.0173	
3	0.0192	
4	0.0197	
5	0.0200	
6	0.0199	
7	0.0183	
8		
Average	0.0194	
STDEVP	0.00124	
Student's t	2.998	

(Student-T value for 7 replicates = 3.143, for 8 replicates = 2.998)

MDL = Student T * StdDev:	**0.0037**	mg/L
Reporting Limit:	0.0100	mg/L
Status:	PASS	>1/3 RL

f:\inorgan\forms\cn-mdl-h2o.xls
ver.2 effective 7/14/04

Curtis & Tompkins, Ltd.

Dissolved Sulfide

Lab #:	185866	Location:	Presidio
Client:	Treadwell & Rollo	Analysis:	EPA 376.2
Project#:	2893.04.51		
Analyte:	Dissolved Sulfide	Batch#:	112001
Field ID:	WT032906	Sampled:	03/29/06
Matrix:	Water	Received:	03/29/06
Units:	mg/L	Analyzed:	04/05/06
Diln Fac:	1.000		

Type	Lab ID	Result	RL
SAMPLE	185866-001	ND	0.04
BLANK	QC334294	ND	0.04

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Sulfide

Lab #:	185866	Location:	Presidio
Client:	Treadwell & Rollo	Analysis:	EPA 376.2
Project#:	2893.04.51		
Analyte:	Dissolved Sulfide	Diln Fac:	1.000
Field ID:	WT032906	Batch#:	112001
MSS Lab ID:	185866-001	Sampled:	03/29/06
Matrix:	Water	Received:	03/29/06
Units:	mg/L	Analyzed:	04/05/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC334295		0.5195	0.5388	104	90-110		
MS	QC334296	<0.04000	0.3463	0.4561	132 *	42-123		
MSD	QC334297		0.3463	0.4541	131 *	42-123	0	20

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Analysis:	**SULFIDE**	Matrix:	Water
Method:	**EPA 376.2**	Batch:	**112001**
Instrument:	HP UV-VIS Spectrometer	Prep Date:	**4/5/2006**
Wavelength:	626 nm	Analysis Date:	**4/5/2006**
SOP#:	sulfide_376_rv 4.doc	Analyst:	DMc

INITIAL CALIBRATION DATA

Calibration Date: 11/15/05

Conc (mg/L)	Absorb	RF
0.0000	0.0001	
0.0233	0.0090	0.3863
0.0466	0.0156	0.3348
0.1862	0.0555	0.2981
0.3725	0.1650	0.4430
0.7450	0.3293	0.4420
1.3040	0.5687	0.4361
1.6760	0.7467	0.4455

Correlation Coefficient (r):	0.9994
Avg Rf:	0.3980
%RSD:	15.1

Note: Average Rf used to calculate sample results.

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CONTINUING CALIBRATION DATA

	Absorb	Conc (mg/L)	True (mg/L)	Recovery		CV Limits
ICV	0.2144	0.5387	0.5195	104%		90 - 110%
ICB	0.0005	0.0013	0.0000			
CCV	0.2081	0.5229	0.5195	101%		90 - 110%
CCB	0.0018	0.0045	0.0000			
CCV	0.2093	0.5259	0.0889	592%	**fail**	90 - 110%
CCB	0.0031	0.0078	0.0000			

Analysis: **SULFIDE**
Method: **EPA 376.2**
Instrument: HP UV-VIS Spectrometer
Wavelength: 626 nm
Matrix: Water

Batch: **112001**
Prep Date: **4/5/2006**
Analysis Date: **4/5/2006**
Analyst: DMc

SAMPLE & BATCH QC DATA

Sample ID	Sample Vol (mL)	D.F.	Sample Absorb	Color Blk Absorb	**Report mg/L**	Reporting Limit (mg/L)	Vol Spike Added (mL)	Std Conc. (mg/L)	Spiked @ (mg/L)	**% Rec**	**% RPD**
MB	7.5000	1.0000	0.0005		**ND**	0.040					
LCS	7.5000	1.0000	0.2144		**0.53875**	0.040	1.0000	51.9488	0.5195	**104**	
185866-1	7.5000	1.0000	0.0067		**ND**	0.040					
185866-1ms	7.5000	1.0000	0.1815		**0.45608**	0.040	0.0500	51.9488	0.3463	**132 ***	
185866-1msd	7.5000	1.0000	0.1807		**0.45407**	0.040	0.0500	51.9488	0.3463	**131 ***	**0**
185865-1	7.5000	1.0000	0.0118		**ND**	0.040					
185865-2	7.5000	1.0000	0.0002		**ND**	0.040					
185897-13	7.5000	1.0000	0.0141		**ND**	0.040					
185897-14	7.5000	1.0000	0.0112		**ND**	0.040					
185897-15	7.5000	1.0000	0.0096		**ND**	0.040					
185941-1	7.5000	1.0000	0.0068		**ND**	0.040					

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	20	42 - 121

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Reviewed by/ Date: 4.5.06

---> **Quantitation Results Report** <---

Date : ~~03-25~~ 4-5-2006
Time : 11:06:48 4-5-06
Operator : Not Entered

File Name : Data not stored yet

Sample Name : sulfide
Solvent Name : CAL11-15-05
Conc Units : mg/L
Dil. Factor : 1.00

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

SAMPLE #	Sample Name	Wavelength	Func. Res.	Concentrati
1	icb/mb	Analytical	+0.0005	0.00124
2	icv/lcs	Analytical	+0.2144	0.48588
3	185597-13	Analytical	+0.0141	0.03205
4	185597-14	Analytical	+0.0112	0.02534
5	185597-15	Analytical	+0.0096	0.02178
6	185941-1	Analytical	+0.0068	0.01535
7	185866-1	Analytical	+0.0067	0.01528
8	185866-1ms	Analytical	+0.1815	0.41131
9	185866-1msd	Analytical	+0.1807	0.40941
10	185865-1	Analytical	+0.0118	0.02669
11	ccv	Analytical	+0.2081	0.47157
12	ccb	Analytical	+0.0018	0.00418
13	185865-2	Analytical	+0.0002	4.149E-04
14	ccv	Analytical	+0.2093	0.47427
15	ccb	Analytical	+0.0031	0.00691

4-5-06

Date : ~~03~~-25-2006

Time : 11:07:12 4-5-06 BM

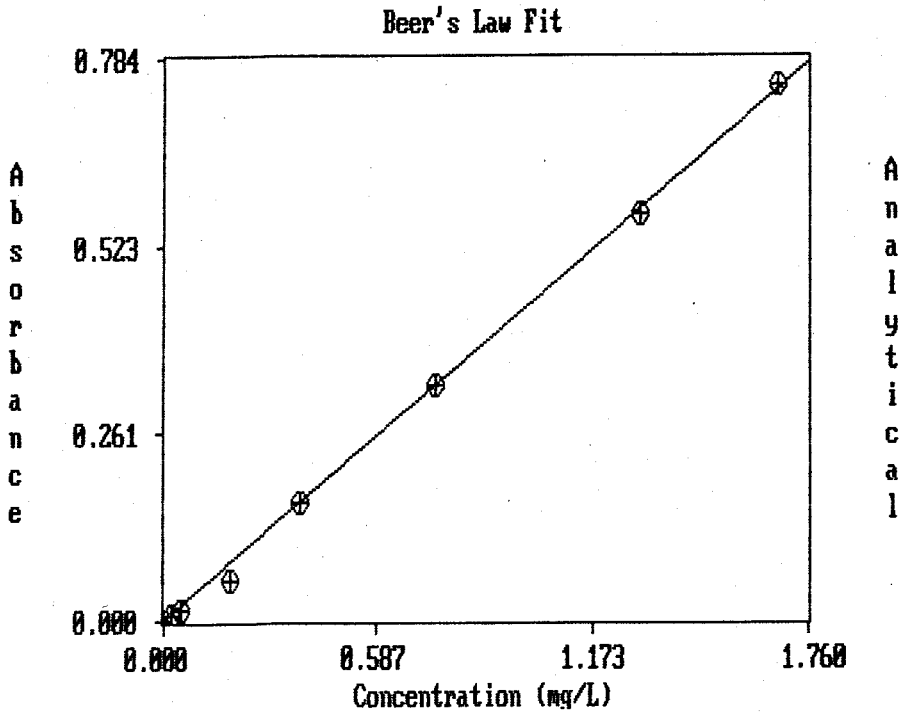
Operator : Not Entered

---> **Standard Calibration Report** <---

File Name : C:\UV\DATA\ss1105.STD

Sample Name : sulfide
Solvent Name : CAL11-15-05
Conc Units : mg/L

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds



---> **Standard Calibration Report** <---

Date : ~~03-25~~ 4-5-2006
Time : 11:07:10 4-5-06
Operator : Not Entered

File Name : C:\UV\DATA\ss1105.STD

Sample Name : sulfide
Solvent Name : CAL11-15-05
Conc Units : mg/L

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

Analytical Function. Concentration = +2.266E+00 * Absorbance

STD #	Concentration	Absorbance	% Error
1	0.00000	0.0001	*****
2	0.37250	0.1650	-0.366 %
3	0.74500	0.3293	-0.135 %
4	1.30400	0.5687	+1.198 %
5	1.67600	0.7467	-0.933 %
6	0.02330	0.0090	+14.422 %
7	0.04660	0.0156	+31.758 %
8	0.18620	0.0555	+48.042 %

PROJECT ZUMA — Treed well 185866, CODE HENRY 185941, 185897

Notebook No. BK 2289

Continued From Page

Sulfide/Diss Sulfide EPA 376.2 B

Sample	Vol (ml)	Final Vol (ml)	ABS
185597-13	75	75	0.0141
-14			0.0112
-15			0.0096
185941-1			0.0068
X 185866-1			0.0067
-1 MS			0.1815
-1 MSD			0.1807
185865-1			0.0118
-2			0.0002
ICB/MB			0.0005
ICV/LCS			0.2144
CCV			0.2081
CCB			0.0018
CCV			0.2093
CCB			0.0031

S⁻ std :-
5 ml I⁻ 0.0215 M x 5 (−)
1.2 ml SO_3 0.02194 x 1.2
= 1298.72 mg/L
1:25 dilu: 51.9488 mg/L

ICV: 1 ml of 100 dilu → 7.5 ml @ 0.5195 mg/L

MS, MSD:
0.05 ml → 7.5 ml @ 0.3463 mg/L

X = Filter thru WHATMAN 45μ Filter Cat 1039

Continued on Page

Read and Understood By

Signed: [illegible] Date: 4-5-06

Signed: [illegible] Date: 4.5.06

Analysis:	Sulfide	Analysis Date:	4/14/2005
Method:	EPA 376.2	Analyst:	DM
Instrument:	HP UV/Vis		
Wavelength:	626 nm		

Instrument Calibrated to report sample results in concentration: mg/L

Concentration:	0.1098	
Units:	mg/L	
1	0.100	
2	0.104	
3	0.105	
4	0.096	
5	0.096	
6	0.095	
7	0.092	
Average:	0.098	ug/L
Std Deviation:	0.004691	
Student T:	3.143	

(Student-T value for 7 replicates = 3.143, for 8 replicates = 2.998)

MDL = Student T * StdDev:	**0.0147**	mg/L
Reporting Limit:	0.04	mg/L
Status:	PASS	>1/3 RL

Table E-2
Curtis and Tompkins
Sample Delivery Group Index List
Second Quarter 2006
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

Location ID	Sample Date	SDG Number
Battery Howe/Wagner		
BHWGW01	5/25/2006	187112
BHWGW01 (DUP0525063A)	5/25/2006	187112
BHWGW04	5/25/2006	187112
BHWGW05	5/25/2006	187112
HWGW100	5/25/2006	187112
HWGW101	5/25/2006	187112
Commissary/PX		
600GW101	5/23/2006	187020
600GW105	5/23/2006	187020
600GW106	5/23/2006	187020
600GW108	5/23/2006	187020
610GW101	5/23/2006	187020
610GW102	5/23/2006	187020
610GW103	5/23/2006	187020
600GW103 (DUP0523061A)	5/23/2006	187020
Building 1047		
1047MW101	5/25/2006	187112
Building 1349/Fill Site 5		
1349MW100	5/24/2006	187065
1349MW100 (DUP0524063A)	5/24/2006	187065
Building 231/207 Area		
231GW09	5/24/2006	187065
Building 1065 Area		
1065MW9A	5/24/2006	187065
1065MW9A (DUP0524063B)	5/24/2006	187065
1065MW9B	5/25/2006	187112
1065MW101	5/24/2006	187065
1065MW102	5/24/2006	187065
1065PZ1A	5/24/2006	187065
1065PZ1B	5/24/2006	187065
1065PZ2A	5/24/2006	187065
1065PZ4A	5/24/2006	187065
1065PZ5AR	5/24/2006	187065

Table E-2
Curtis and Tompkins
Sample Delivery Group Index List
Second Quarter 2006
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

Location ID	Sample Date	SDG Number
Landfill 4		
LF04GW103	5/25/2006	187112
LF04GW104	5/25/2006	187112
Landfill 10		
LF10GW01	5/25/2006	187112
LF10GW03	5/25/2006	187112
Fill Site 6		
LF6GW103	5/23/2006	187020
LF6GW104	5/23/2006	187020
LF6GW105	5/23/2006	187020
LF6GW106	5/23/2006	187020
Baker Beach Disturbed Area 1 and 2A		
BB1PZ100	5/23/2006	187020
BB1PZ101	5/23/2006	187020
Baker Beach Disturbed Area 3		
BB3GW100	5/23/2006	187020
BB3GW100 (DUP0523063A)	5/23/2006	187020
BB3SW101	5/23/2006	187020
BB3SW102	5/23/2006	187020
BB3SW104	5/23/2006	187020
Mini-CAPs		
1213GW101	5/24/2006	187065
1213GW101 (DUP-05242006)	5/24/2006	187065
1221GW104	5/24/2006	187065
514AGW101	5/25/2006	187112
FM14EX07GW101	5/24/2006	187065
FM14EX07GW102	5/24/2006	187065
Rinsate Samples		
BHWGW04RB05	5/25/2006	187112
Trip Blanks		
TB0524063A	5/24/2006	187065
TB0525061A	5/25/2006	187112
Source Water Samples		
DW052506A	5/25/2006	187112
DW053006B	5/30/2006	187137
Purge Water Sample		
WT052506	5/25/2006	187112

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 187020

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.04.51
Location: Presidio

Sample ID	Lab ID
600GW101	187020-001
600GW105	187020-002
600GW106	187020-003
600GW108	187020-004
610GW101	187020-005
610GW102	187020-006
610GW103	187020-007
DUP0523061A	187020-008
BB3GW100	187020-009
DUP0523063A	187020-010
BB3SW101	187020-011
BB3SW104	187020-012
BB3SW102	187020-013
BB1PZ101	187020-014
BB1PZ100	187020-015
TB0523063A	187020-016
LF6GW103	187020-017
LF6GW104	187020-018
LF6GW105	187020-019
LF6GW106	187020-020

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 6/19/06
Operations Manager

Signature: _____ Date: 6/19/06
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**187020**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**05/24/06**
Samples Received:	**05/24/06**

This hardcopy data package contains sample and QC results for nineteen water samples, requested for the above referenced project on 05/24/06. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):
No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
High response was observed for motor oil C24-C36 in the CCV analyzed 06/07/06 01:34; this analyte was not detected at or above the RL in the associated samples. No other analytical problems were encountered.

Pesticides (EPA 8081A):
High response was observed for methoxychlor in the ICV analyzed 05/16/06 02:35; average ICV drift met method requirements, and this analyte was not detected at or above the RL in the associated samples. Low response was observed for delta-BHC in the CCV analyzed 05/30/06 22:38; average CCV drift met method requirements. No other analytical problems were encountered.

Polychlorinated Biphenyls (PCBs) (EPA 8082):
High recoveries were observed for Aroclor-1016 and Aroclor-1260 in the BS/BSD for batch 113812; the associated RPDs were within limits, and these analytes were not detected at or above the RL in the associated sample. No other analytical problems were encountered.

Polynuclear Aromatics by HPLC (EPA 8310):
No analytical problems were encountered.

Metals (EPA 6010B, EPA 6020, and EPA 7470A) Water:
Responses exceeding the instrument's linear range were observed for calcium and sodium in the MS/MSD of 600GW101 (lab # 187020-001). No other analytical problems were encountered.

Metals (EPA 6010B, EPA 6020, and EPA 7470A) Filtrate:
Low recoveries were observed for aluminum in the MS/MSD of 1065MW9B (lab # 187112-002); the BS/BSD were within limits. High RPD was also observed for aluminum; the RPD was acceptable in the BS/BSD, and this analyte was not detected at or above the RL in the associated samples. Responses exceeding the instrument's linear range were observed for calcium and sodium in the MS/MSD of 600GW101 (lab # 187020-001). No other analytical problems were encountered.

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**187020**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**05/24/06**
Samples Received:	**05/24/06**

Ion Chromatography (EPA 300.0):
No analytical problems were encountered.

Alkalinity (EPA 310.1):
No analytical problems were encountered.

Sulfide (EPA 376.2):
No analytical problems were encountered.

Total Dissolved Solids (TDS) (EPA 160.1):
No analytical problems were encountered.

Chain of Custody

Treadwell&Rollo
Environmental and Geotechnical Consultants
555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

187020

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2146
Page: ___ of ___

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTS / P. Cornish
Recorder (signature required): [signature]
Sent to Laboratory (Name): CET

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other ~~Zn Ac~~	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260)	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other) (14)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	BTEX, MTBE	Total Sulfide					COMMENTS / NOTES
-1 600GW101	5/23/06	1200			X		3		1	1	2	X	X	X		X		X		X		X	X					
-2 600GW105	↓	1456			X		3		1	1	2	X	X	X		X		X		X			X					
-3 600GW106		1350			X		3		1	1	2	X	X	X		X		X		X			X					
-4 600GW108		1255			X		3		1	1	2	X	X	X		X		X		X			X					
-5 610GW101		9:~~45~~ 1200			X		3		1	1	2	X	X	X		X		X		X		X	X					
-6 610GW102		1004			X		3		1	1	2	X	X	X		X		X		X		X	X					
-7 610GW103		1100			X		3		1	1	2	X	X	X		X		X		X		X	X					
-8 DUP0523061A		—			X		3		1	1	2	X	X	X		X		X		X		X	X					

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists (23** - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (**13** - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (**9** - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (**8** - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (**3** - Al, Fe, and Cr) (**Other -**)

RELINQUISHED BY: [signature]	DATE: 5/23/06	RECEIVED BY: [signature]	DATE: 5/24/06
PRINT NAME: FIRM:	TIME: 1200	PRINT NAME: AARON GRENIER FIRM: CET	TIME: 1200
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

White Copy - Original **Yellow Copy** - Laboratory **Pink Copy** - Field

Treadwell&Rollo
Environmental and Geotechnical Consultants
555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

187020

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2110
Page: ____ of ____

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): John DeJong, BTS
Recorder (signature required): [signature]
Sent to Laboratory (Name): CTT

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Water	Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260)	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	Diss Metals (23)	Total Metals (23)					COMMENTS / NOTES
-9	BB3GW100	5/23/06	1515			X		3		1		2	X	X	X		X		X		X								
-10	DUP0523063A		1520			X		3		1		2	X	X	X		X		X		X								
-11	BB3SW101		1345			X				2									X	X									
-12	BB3SW104		1330			X		3		2		2	X	X	X		X		X	X	X								
-13	BB3SW102		1250			X				2		1					X		X	X	X								
-14	BB1PZ101		1000			X				2		6		X	X		X	X				X	X	X					
-15	BB1PZ100		1035			X				2		6	·	X	X	·	X	X				X	X	X					
-16	TB0523063A		—			X						2	X																

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists (23** - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (**13** - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (**9** - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (**8** - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (**7** - As, Cr, Cd, Cu, Pb, Ni and Zn) (**3** - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY: [signature]	DATE: 5/24/06	RECEIVED BY: [signature]	DATE: 5/24/06
PRINT NAME: FIRM:	TIME: 1200	PRINT NAME: AARON GREVIER FIRM: CTT	TIME: 1200
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

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Treadwell&Rollo
Environmental and Geotechnical Consultants
555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

187020

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2147
Page: 1 of 1

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTS / D. Raynal
Recorder (signature required):
Sent to Laboratory (Name): CHT

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

REQUESTED ANALYSES

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260)	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (22, 13, 9, 8, 7, 3, Other)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	PCB's						COMMENTS / NOTES
-17	LF6GW 103	5/23/06	1050			X		3		1			X	X			X	X	X		X	X	X						10 bottles
-18	LF6GW 104	↓	1210			X				1				X	X		X		X		X	X							5
-19	LF6GW 105		1325			X				1							X		X		X								2
-20	LF6GW 106		1420			X				1				X	X		X		X		X	X							5

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY:	DATE: 5/24/06	RECEIVED BY:	DATE: 5/24/06
PRINT NAME: FIRM:	TIME: 1200	PRINT NAME: AARON GRENIER FIRM: CHT	TIME: 1200
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

White Copy - Original **Yellow Copy** - Laboratory **Pink Copy** - Field

Steven Stanley

From: "Joshua Graber" <jdgraber@treadwellrollo.com>
To: "Steve Stanley" <steve@ctberk.com>
Cc: "Carole Nuttall" <cnuttall@treadwellrollo.com>; "Gil Shenker" <gshenker@treadwellrollo.com>; "Greg Johnson" <gejohnson@treadwellrollo.com>; <bjones@blainetech.com>; <dataval@msn.com>
Sent: Thursday, June 01, 2006 3:17 PM
Subject: RE: 2893.04.51 - C&T Login Summary (187020)

Steve,

Please cancel the analysis for TB0523063A. This is a trip blank and no VOCs were submitted with this SDG and we don't run trips for TVH.

Thanks.

Joshua D. Graber
Senior Project Manager / Scientist
Treadwell & Rollo, Inc.

****
This information is intended solely for use by the individual or entity named as the recipient hereof and may be an attorney work product that is privileged and confidential or it may contain confidential company information. If you are not the intended recipient, be aware that any disclosure, copying, distribution, or use of the contents of this transmission is prohibited. If you have received this communication in error, please notify us immediately by return e-mail or by e-mail to info@treadwellrollo.com, and destroy this communication and all copies thereof, including attachments.
****

From: Steve Stanley [mailto:steve@ctberk.com]
Sent: Tuesday, May 30, 2006 9:30 AM
To: Joshua Graber
Cc: Carole Nuttall; Gil Shenker; Greg Johnson; bjones@blainetech.com; dataval@msn.com
Subject: 2893.04.51 - C&T Login Summary (187020)

C&T Login Summary for 187020

Project:

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 187020 Date Received: 5/24/06 Number of Coolers: 4
Client: Treadwell & Rollo Project: Presidio

A. Preliminary Examination Phase
Date Opened: 5/24/06 By (print): S. Stanley (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? 1-Front Seal date: 5/23/06 Seal name: C/S
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: Wet Temperature: 3.3, 2.1, 3.5, 2.6

B. Login Phase
Date Logged In: 5/24/06 By (print): Peter P. (sign) [illegible]

1. Describe type of packing in cooler: Bagged under loose ice
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

TOTAL VOLATILE HYDROCARBONS/

BTXE

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	600GW101	Batch#:	113740
Lab ID:	187020-001	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	ug/L	Analyzed:	05/24/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	390 Y	50	EPA 8015B
MTBE	3.3 C	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	105	65-135	EPA 8015B
Bromofluorobenzene (FID)	116	65-135	EPA 8015B
Trifluorotoluene (PID)	98	65-135	EPA 8021B
Bromofluorobenzene (PID)	113	65-135	EPA 8021B

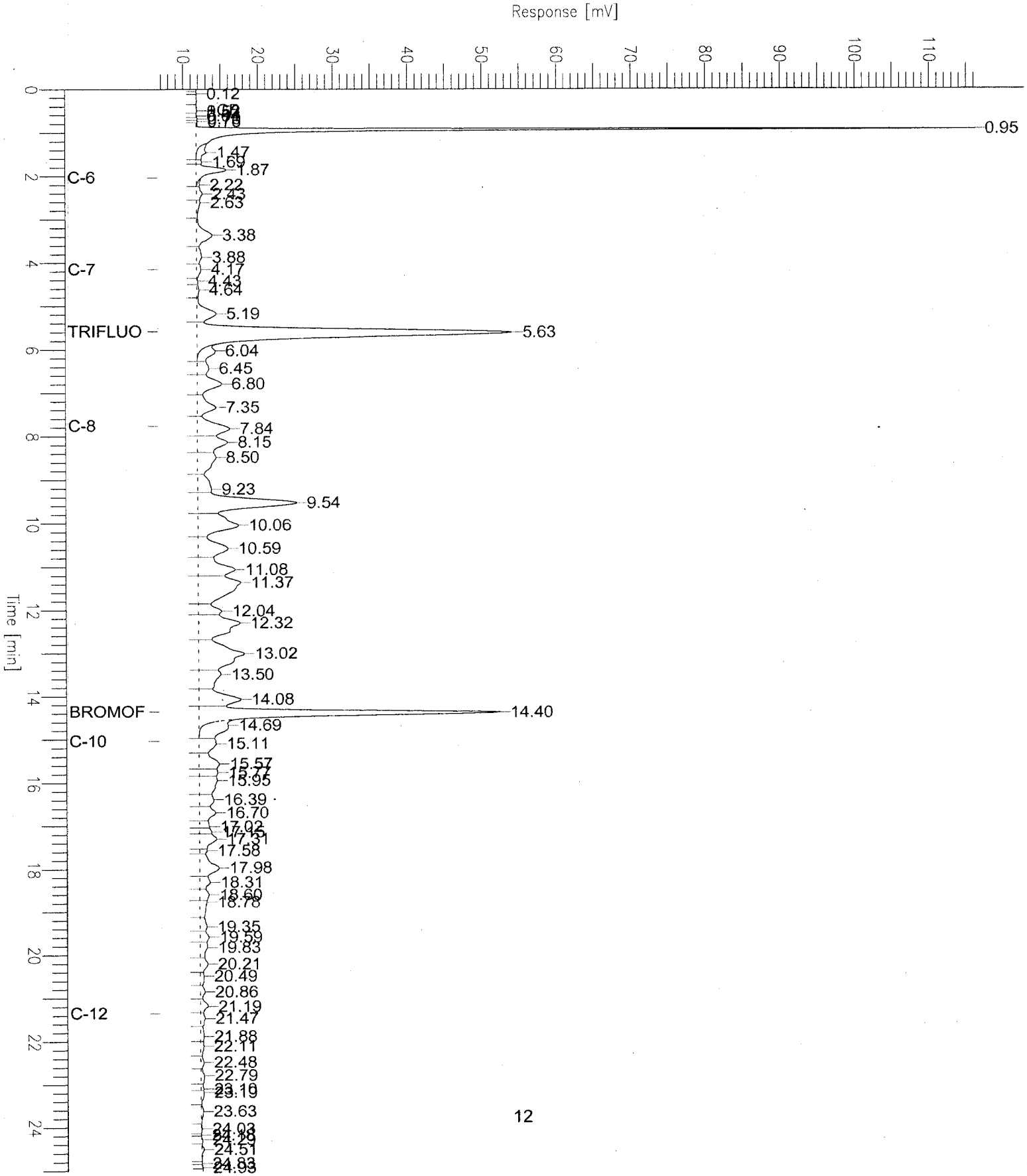
C= Presence confirmed, but RPD between columns exceeds 40%
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Chromatogram

600GW101

Sample Name : 187020-001,113740,tvh+mbtxe
FileName : G:\GC05\DATA\144G007.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 25.00 min
Scale Factor: 1.0 Plot Offset: 7 mV

Sample #: a1.3 Page 1 of 1
Date : 5/24/06 04:58 PM
Time of Injection: 5/24/06 04:33 PM
Low Point : 6.52 mV High Point : 116.21 mV
Plot Scale: 109.7 mV



Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	600GW105	Batch#:	113740
Lab ID:	187020-002	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	ug/L	Analyzed:	05/24/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	65-135
Bromofluorobenzene (FID)	101	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	600GW106	Batch#:	113740
Lab ID:	187020-003	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	ug/L	Analyzed:	05/24/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	88	65-135
Bromofluorobenzene (FID)	95	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	600GW108	Batch#:	113740
Lab ID:	187020-004	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	ug/L	Analyzed:	05/24/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	91	65-135
Bromofluorobenzene (FID)	99	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	610GW101	Batch#:	113740
Lab ID:	187020-005	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	ug/L	Analyzed:	05/24/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	90	65-135	EPA 8015B
Bromofluorobenzene (FID)	95	65-135	EPA 8015B
Trifluorotoluene (PID)	101	65-135	EPA 8021B
Bromofluorobenzene (PID)	106	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	610GW102	Batch#:	113740
Lab ID:	187020-006	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	ug/L	Analyzed:	05/24/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	50 L Y	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	96	65-135	EPA 8015B
Bromofluorobenzene (FID)	97	65-135	EPA 8015B
Trifluorotoluene (PID)	103	65-135	EPA 8021B
Bromofluorobenzene (PID)	106	65-135	EPA 8021B

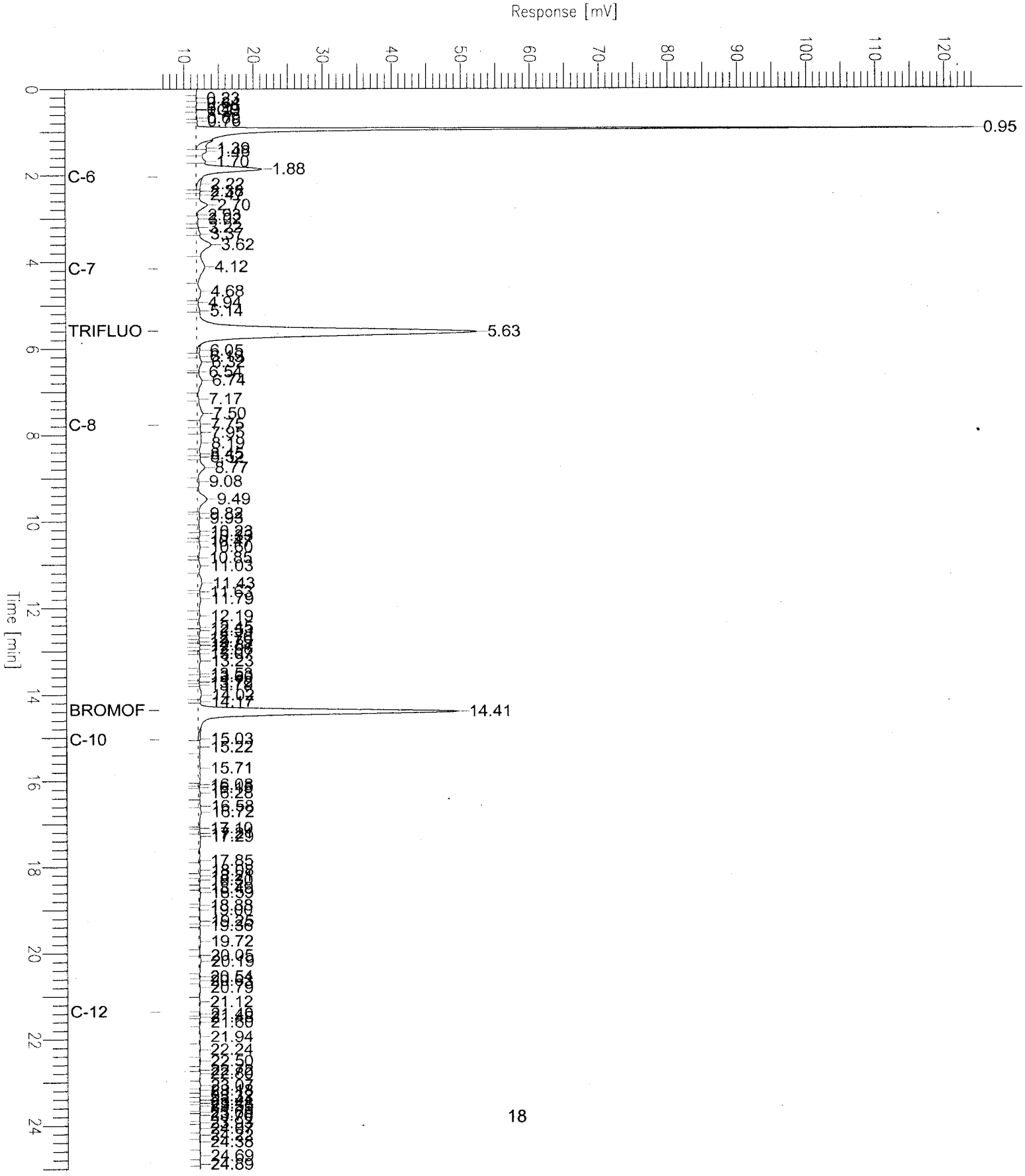
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

610GW102

Chromatogram

Sample Name : 187020-006,113740,tvh+mbtxe
FileName : G:\GC05\DATA\144G009.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 25.00 min
Scale Factor: 1.0 Plot Offset: 6 mV

Sample #: a1.3
Date : 5/24/06 06:03 PM
Time of Injection: 5/24/06 05:38 PM
Low Point : 6.12 mV High Point : 124.26 mV
Plot Scale: 118.1 mV



Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	610GW103	Batch#:	113740
Lab ID:	187020-007	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	ug/L	Analyzed:	05/24/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	3.2 C	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	90	65-135	EPA 8015B
Bromofluorobenzene (FID)	98	65-135	EPA 8015B
Trifluorotoluene (PID)	99	65-135	EPA 8021B
Bromofluorobenzene (PID)	104	65-135	EPA 8021B

C= Presence confirmed, but RPD between columns exceeds 40%
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	DUP0523061A	Batch#:	113740
Lab ID:	187020-008	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	ug/L	Analyzed:	05/24/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	91	65-135	EPA 8015B
Bromofluorobenzene (FID)	94	65-135	EPA 8015B
Trifluorotoluene (PID)	99	65-135	EPA 8021B
Bromofluorobenzene (PID)	104	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	BB3GW100	Batch#:	113740
Lab ID:	187020-009	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	ug/L	Analyzed:	05/25/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	88	65-135
Bromofluorobenzene (FID)	96	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	DUP0523063A	Batch#:	113740
Lab ID:	187020-010	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	ug/L	Analyzed:	05/25/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	87	65-135
Bromofluorobenzene (FID)	92	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	BB3SW104	Batch#:	113740
Lab ID:	187020-012	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	ug/L	Analyzed:	05/25/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	85	65-135
Bromofluorobenzene (FID)	94	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	LF6GW103	Batch#:	113740
Lab ID:	187020-017	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	ug/L	Analyzed:	05/25/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	86	65-135
Bromofluorobenzene (FID)	96	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC341232	Batch#:	113740
Matrix:	Water	Analyzed:	05/24/06
Units:	ug/L		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	88	65-135	EPA 8015B
Bromofluorobenzene (FID)	90	65-135	EPA 8015B
Trifluorotoluene (PID)	90	65-135	EPA 8021B
Bromofluorobenzene (PID)	98	65-135	EPA 8021B

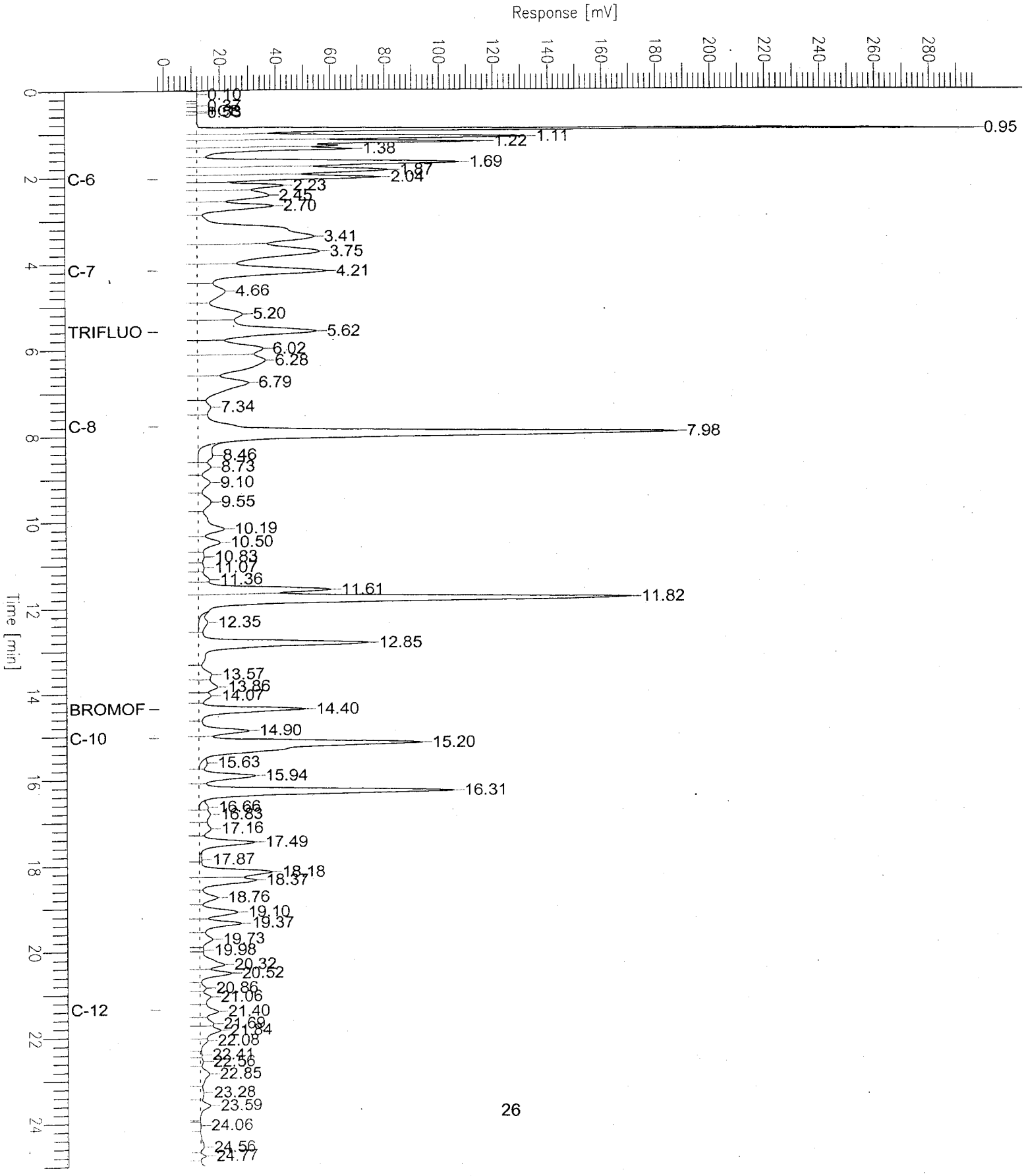
ND= Not Detected
RL= Reporting Limit

Gasoline

Chromatogram

Sample Name : ccv/lcs,qc341234,113740,s3323,5/5000
FileName : G:\GC05\DATA\144g005.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 25.00 min
Scale Factor: 1.0 Plot Offset: -2 mV

Sample #:
Date : 5/24/06 12:26 PM
Time of Injection: 5/24/06 11:55 AM
Low Point : -2.29 mV High Point : 296.51 mV
Plot Scale: 298.8 mV



Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8021B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC341233	Batch#:	113740
Matrix:	Water	Analyzed:	05/24/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
MTBE	20.00	18.94	95	65-135
Benzene	20.00	21.44	107	65-135
Toluene	20.00	22.48	112	65-135
Ethylbenzene	20.00	21.92	110	65-135

Surrogate	%REC	Limits
Trifluorotoluene (PID)	101	65-135
Bromofluorobenzene (PID)	103	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC341234	Batch#:	113740
Matrix:	Water	Analyzed:	05/24/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	2,088	104	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	130	65-135
Bromofluorobenzene (FID)	102	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	600GW101	Batch#:	113740
MSS Lab ID:	187020-001	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	ug/L	Analyzed:	05/24/06
Diln Fac:	1.000		

Type: MS Lab ID: QC341354

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	394.3	2,000	2,457	103	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	113	65-135
Bromofluorobenzene (FID)	119	65-135

Type: MSD Lab ID: QC341355

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,449	103	65-135	0	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	118	65-135
Bromofluorobenzene (FID)	121	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187020 GCVOA Water: EPA 8015B

Inst : GC05
Calnum : 316199245001
Units : ng

Name : GAS
Date : 18-MAY-2006 16:47
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	138_006	316199245006	tvh 1	18-MAY-2006 16:47	S3460 (1000X), S3248 (5000X)
L2	138_007	316199245007	tvh 2	18-MAY-2006 17:19	S3459 (1000X), S3248 (5000X)
L3	138_008	316199245008	tvh 3	18-MAY-2006 17:51	S3458 (1000X), S3248 (5000X)
L4	138_009	316199245009	tvh 4	18-MAY-2006 18:23	S3457 (2000X), S3248 (5000X)
L5	138_010	316199245010	tvh 5	18-MAY-2006 18:55	S3457 (1000X), S3248 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	G	1168.4	1143.2	1104.8	1017.7	1031.8	AVRG		9.15E-4		1093.2	6	0.995	20	

30

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

316199245001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 187020 GCVOA Water
EPA 8015B

Inst : GC05 Name : GAS
Calnum : 316199245001 Cal Date: 18-MAY-2006

ICV 316199245014 (138_014 18-MAY-2006) stds: S3323 (1000X), S3248 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	G	1093.2	1144.6	10000	10470	ng	5	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187020 GCVOA Water: EPA 8021B

Inst : GC05
Calnum : 316186669001
Units : ng

Name : MBTXE
Date : 09-MAY-2006 16:13
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	129_003	316186669003	btxe 1	09-MAY-2006 16:13	S2850 (1000X), S3248 (5000X)
L2	129_004	316186669004	mtbe 1	09-MAY-2006 16:46	S2849 (1250X), S3248 (5000X)
L3	129_005	316186669005	btxe 2	09-MAY-2006 17:18	S2849 (500X), S3248 (5000X)
L4	129_006	316186669006	btxe 3	09-MAY-2006 17:50	S2849 (125X), S3248 (5000X)
L5	129_007	316186669007	btxe 4	09-MAY-2006 18:22	S2848 (1000X), S3248 (5000X)
L6	129_008	316186669008	btxe 5	09-MAY-2006 18:54	S2848 (500X), S3248 (5000X)
L7	129_009	316186669009	btxe 6	09-MAY-2006 19:26	S2848 (250X), S3248 (5000X)
L8	129_010	316186669010	mtbe 7	09-MAY-2006 19:58	S2847 (500X), S3248 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
MTBE	H		674.00	750.00	649.81	577.26	550.89	553.71	552.89	AVRG		0.00162		615.51	13	0.995	20	
Benzene	H	1588.0		1480.5	1436.7	1487.1	1449.9	1427.2		AVRG		6.76E-4		1478.2	4	0.995	20	
Toluene	H	1518.0		1373.6	1401.2	1380.5	1328.1	1304.9		AVRG		7.22E-4		1384.4	5	0.995	20	
Ethylbenzene	H	1325.0		1226.3	1225.9	1221.7	1180.2	1160.8		AVRG		8.17E-4		1223.3	5	0.995	20	
m,p-Xylenes	H	1787.0		1689.5	1652.4	1640.3	1545.4	1497.1		AVRG		6.12E-4		1635.3	6	0.995	20	
o-Xylene	H	1240.0		1212.4	1244.9	1226.5	1161.1	1130.8		AVRG		8.32E-4		1202.6	4	0.995	20	
MTBE	I		33.500	43.080	41.450	45.719	47.111	50.549	54.038	AVRG		0.02219		45.064	15	0.995	20	
Benzene	I	121.60		109.20	109.17	132.36	136.60	139.77		AVRG		0.00801		124.78	11	0.995	20	
Toluene	I	132.00		101.72	99.470	121.30	124.80	127.83		AVRG		0.00849		117.85	12	0.995	20	
Ethylbenzene	I	76.584		92.935	92.425	110.69	112.97	116.85		AVRG		0.00996		100.41	16	0.995	20	
m,p-Xylenes	I	113.20		120.32	124.45	144.08	146.40	151.20		AVRG		0.00750		133.27	12	0.995	20	
o-Xylene	I	125.40		100.75	90.170	108.88	111.00	115.70		AVRG		0.00920		108.65	11	0.995	20	

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Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

316186669001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 187020 GCVOA Water
EPA 8021B

Inst : GC05 Name : MBTXE
Calnum : 316186669001 Cal Date: 09-MAY-2006

ICV 316186669013 (129_013 09-MAY-2006) stds: S3079 (1000X), S3248 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
MTBE	H	615.51	520.25	100.0	84.52	ng	-15	15	
Benzene	H	1478.2	1547.7	100.0	104.7	ng	5	15	
Toluene	H	1384.4	1514.6	100.0	109.4	ng	9	15	
Ethylbenzene	H	1223.3	1240.1	100.0	101.4	ng	1	15	
m,p-Xylenes	H	1635.3	1587.3	200.0	194.1	ng	-3	15	
o-Xylene	H	1202.6	1291.7	100.0	107.4	ng	7	15	
MTBE	I	45.064	39.100	100.0	86.77	ng	-13	15	
Benzene	I	124.78	129.01	100.0	103.4	ng	3	15	
Toluene	I	117.85	116.89	100.0	99.18	ng	-1	15	
Ethylbenzene	I	100.41	101.48	100.0	101.1	ng	1	15	
m,p-Xylenes	I	133.27	126.27	200.0	189.5	ng	-5	15	
o-Xylene	I	108.65	95.241	100.0	87.66	ng	-12	15	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187020 GCVOA Water: EPA 8015B / EPA 8021B

Inst : GC05
Calnum : 316186669002
Units : ng

Name : TFT/BFB
Date : 10-MAY-2006 11:15
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	129_015	316186669015	tft/bfb 1	10-MAY-2006 11:15	S3289 (5000X)
L2	129_016	316186669016	tft/bfb 2	10-MAY-2006 12:11	S3290 (5000X)
L3	129_017	316186669017	tft/bfb 3	10-MAY-2006 13:12	S3291 (5000X)
L4	129_018	316186669018	tft/bfb 4	10-MAY-2006 13:45	S3292 (5000X)
L5	129_019	316186669019	tft/bfb 5	10-MAY-2006 14:45	S3293 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	G	1190.1	1148.7	1073.7	1108.4	1076.2	AVRG		8.93E-4		1119.4	4	0.995	20	
Bromofluorobenzene (FID)	G	675.74	683.93	657.19	699.14	688.87	AVRG		0.00147		680.98	2	0.995	20	
Trifluorotoluene (PID)	H	423.80	417.58	405.42	426.43	415.41	AVRG		0.00239		417.73	2	0.995	20	
Bromofluorobenzene (PID)	H	776.27	805.56	789.36	864.10	858.49	AVRG		0.00122		818.75	5	0.995	20	
Trifluorotoluene (PID)	I	28.500	28.564	27.569	30.179	30.811	AVRG		0.03434		29.125	5	0.995	20	
Bromofluorobenzene (PID)	I	57.427	59.706	61.411	68.350	69.319	AVRG		0.01581		63.243	8	0.995	20	

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Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

316186669002

CURTIS & TOMPKINS SPIKE USER REPORT FOR 187020 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC05 Run Name: QC341233 IDF : 1.0
Seqnum : 316207934002.2 File : 144_002 Time : 24-MAY-2006 10:06
Standards: S3406 (1000X), S3248 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
MTBE	H	316186669001	09-MAY-2006	582.78	100.0	95	ng	-5	15	
MTBE	I	316186669001	09-MAY-2006	40.830	100.0	91	ng	-9	15	
Benzene	H	316186669001	09-MAY-2006	1585.0	100.0	110	ng	7	15	
Benzene	I	316186669001	09-MAY-2006	118.77	100.0	95	ng	-5	15	
Toluene	H	316186669001	09-MAY-2006	1556.3	100.0	110	ng	12	15	
Toluene	I	316186669001	09-MAY-2006	105.08	100.0	89	ng	-11	15	
Ethylbenzene	H	316186669001	09-MAY-2006	1340.5	100.0	110	ng	10	15	
Ethylbenzene	I	316186669001	09-MAY-2006	94.013	100.0	94	ng	-6	15	
m,p-Xylenes	H	316186669001	09-MAY-2006	1621.6	100.0	99	ng	-1	15	
m,p-Xylenes	I	316186669001	09-MAY-2006	110.26	100.0	83	ng	**-17**	15	c- ***
o-Xylene	H	316186669001	09-MAY-2006	1343.6	100.0	110	ng	12	15	
o-Xylene	I	316186669001	09-MAY-2006	96.044	100.0	88	ng	-12	15	
Trifluorotoluene (FID)	G	316186669002	10-MAY-2006	1297.8	450.0	520	ng	**16**	15	c+
Bromofluorobenzene (FID)	G	316186669002	10-MAY-2006	811.71	450.0	540	ng	**19**	15	c+
Trifluorotoluene (PID)	H	316186669002	10-MAY-2006	421.82	450.0	450	ng	1	15	
Trifluorotoluene (PID)	I	316186669002	10-MAY-2006	28.220	450.0	440	ng	-3	15	
Bromofluorobenzene (PID)	H	316186669002	10-MAY-2006	843.36	450.0	460	ng	3	15	
Bromofluorobenzene (PID)	I	316186669002	10-MAY-2006	65.142	450.0	460	ng	3	15	

Fail ↓, conf channel
Quant. channel is ok.
MW 5/25/06

CW 6/4/06

+=high bias -=low bias c=CCV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 187020 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC05 Run Name: QC341234 IDF : 1.0
Seqnum : 316207934005.2 File : 144_005 Time : 24-MAY-2006 11:55
Standards: S3323 (1000X), S3248 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	G	316199245001	18-MAY-2006	1141.4	10000	10000	ng	4	15	
Trifluorotoluene (FID)	G	316186669002	10-MAY-2006	1453.5	450.0	580	ng	30 Pass	15	c+
Bromofluorobenzene (FID)	G	316186669002	10-MAY-2006	694.80	450.0	460	ng	2	15	
Trifluorotoluene (PID)	H	316186669002	10-MAY-2006	525.68	450.0	570	ng	26 N/A	15	c+
Trifluorotoluene (PID)	I	316186669002	10-MAY-2006	25.770	450.0	400	ng	-12	15	
Bromofluorobenzene (PID)	H	316186669002	10-MAY-2006	836.15	450.0	460	ng	2	15	
Bromofluorobenzene (PID)	I	316186669002	10-MAY-2006	68.671	450.0	490	ng	9	15	

AW 5/25/06

Laboratory Limits:
TFT(FID): 69-137%
CW 6/4/06

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187020 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC05 Run Name: mbtxe IDF : 1.0
Seqnum : 316207934014 File : 144_014 Time : 24-MAY-2006 20:19
Standards: S3406 (666.7X), S3248 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Trifluorotoluene (FID)	G	316186669002	10-MAY-2006	963.82	450.0	387.4	ng	-14	15	
Bromofluorobenzene (FID)	G	316186669002	10-MAY-2006	610.91	450.0	403.7	ng	-10	15	
MTBE	H	316186669001	09-MAY-2006	602.00	150.0	146.7	ng	-2	15	
Benzene	H	316186669001	09-MAY-2006	1584.6	150.0	160.8	ng	7	15	
Toluene	H	316186669001	09-MAY-2006	1525.4	150.0	165.3	ng	10	15	
Ethylbenzene	H	316186669001	09-MAY-2006	1297.3	150.0	159.1	ng	6	15	
m,p-Xylenes	H	316186669001	09-MAY-2006	1598.5	150.0	146.6	ng	-2	15	
o-Xylene	H	316186669001	09-MAY-2006	1315.0	150.0	164.0	ng	9	15	
Trifluorotoluene (PID)	H	316186669002	10-MAY-2006	406.93	450.0	438.4	ng	-3	15	
Bromofluorobenzene (PID)	H	316186669002	10-MAY-2006	820.40	450.0	450.9	ng	0	15	
MTBE	I	316186669001	09-MAY-2006	40.833	150.0	135.9	ng	-9	15	
Benzene	I	316186669001	09-MAY-2006	121.16	150.0	145.6	ng	-3	15	
Toluene	I	316186669001	09-MAY-2006	111.49	150.0	141.9	ng	-5	15	
Ethylbenzene	I	316186669001	09-MAY-2006	99.000	150.0	147.9	ng	-1	15	
m,p-Xylenes	I	316186669001	09-MAY-2006	113.88	150.0	128.2	ng	-15	15	
o-Xylene	I	316186669001	09-MAY-2006	94.353	150.0	130.3	ng	-13	15	
Trifluorotoluene (PID)	I	316186669002	10-MAY-2006	28.758	450.0	444.3	ng	-1	15	
Bromofluorobenzene (PID)	I	316186669002	10-MAY-2006	64.925	450.0	462.0	ng	3	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187020 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC05 Run Name: tvh IDF : 1.0
Seqnum : 316207934016 File : 144_016 Time : 24-MAY-2006 21:23
Standards: S3323 (666.7X), S3248 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	G	316199245001	18-MAY-2006	1154.6	15000	15840	ng	6	15	
Trifluorotoluene (FID)	G	316186669002	10-MAY-2006	1244.7	450.0	500.3	ng	11	15	
Bromofluorobenzene (FID)	G	316186669002	10-MAY-2006	702.85	450.0	464.5	ng	3	15	
Trifluorotoluene (PID)	H	316186669002	10-MAY-2006	442.72	450.0	476.9	ng	6	15	
Bromofluorobenzene (PID)	H	316186669002	10-MAY-2006	804.53	450.0	442.2	ng	-2	15	
Trifluorotoluene (PID)	I	316186669002	10-MAY-2006	37.238	450.0	575.4	ng	**28**	N/A 15	c+
Bromofluorobenzene (PID)	I	316186669002	10-MAY-2006	67.540	450.0	480.6	ng	7	15	

AW 5·25·06

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187020 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC05 Run Name: tvh IDF : 1.0
Seqnum : 316207934017 File : 144_017 Time : 24-MAY-2006 21:55
Standards: S3323 (666.7X), S3248 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	G	316199245001	18-MAY-2006	1153.6	15000	15830	ng	6	15	
Trifluorotoluene (FID)	G	316186669002	10-MAY-2006	1306.5	450.0	525.2	ng	17	15	c+
Bromofluorobenzene (FID)	G	316186669002	10-MAY-2006	752.55	450.0	497.3	ng	11	15	
Trifluorotoluene (PID)	H	316186669002	10-MAY-2006	469.03	450.0	505.3	ng	12	15	
Bromofluorobenzene (PID)	H	316186669002	10-MAY-2006	864.84	450.0	475.3	ng	6	15	
Trifluorotoluene (PID)	I	316186669002	10-MAY-2006	40.082	450.0	619.3	ng	38	15	c+
Bromofluorobenzene (PID)	I	316186669002	10-MAY-2006	74.311	450.0	528.8	ng	18	15	c+

Pass

N/A

AN 525.0 U

Laboratory Limits:
TFT(FID): 69-137%
CW 6/4/06

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187020 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC05 Run Name: tvh IDF : 1.0
Seqnum : 316207934028 File : 144_028 Time : 25-MAY-2006 03:49
Standards: S3323 (1000X), S3248 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	G	316199245001	18-MAY-2006	1142.9	10000	10450	ng	5	15	
Trifluorotoluene (FID)	G	316186669002	10-MAY-2006	1429.2	450.0	574.5	ng	**28** Pass	15	c+
Bromofluorobenzene (FID)	G	316186669002	10-MAY-2006	675.76	450.0	446.6	ng	-1	15	
Trifluorotoluene (PID)	H	316186669002	10-MAY-2006	518.44	450.0	558.5	ng	**24** N/A	15	c+
Bromofluorobenzene (PID)	H	316186669002	10-MAY-2006	807.30	450.0	443.7	ng	-1	15	
Trifluorotoluene (PID)	I	316186669002	10-MAY-2006	33.419	450.0	516.3	ng	15	15	
Bromofluorobenzene (PID)	I	316186669002	10-MAY-2006	66.671	450.0	474.4	ng	5	15	

AN 525-06

Laboratory Limits:
TFT(FID): 69-137%
CW 6/4/06

+=high bias c=CCV

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316207934 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 24-MAY-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv13

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	144_001	X	ib			24-MAY-2006 09:34	1.0					1	
002	144_002	CCV/LCS	QC341233	113740	Water	24-MAY-2006 10:06	1.0	1	5000			2 1 PASS/USE	
003	144_003	X	ccv	113740		24-MAY-2006 10:38	1.0					3 1 NOT USED	
004	144_004	X	ib			24-MAY-2006 11:10	1.0					1	
005	144_005	CCV/LCS	QC341234	113740	Water	24-MAY-2006 11:55	1.0		5000			3 1 PASS/USE	
006	144_006	BLANK	QC341232	113740	Water	24-MAY-2006 12:41	1.0	4	5000			1 <1/2 RL	
007	144_007	MSS	187020-001	113740	Water	24-MAY-2006 16:33	1.0	4	5000	A	1.3	1	
008	144_008	SAMPLE	187020-005	113740	Water	24-MAY-2006 17:05	1.0	2	5000			1	
009	144_009	SAMPLE	187020-006	113740	Water	24-MAY-2006 17:38	1.0	2	5000			1	
010	144_010	SAMPLE	187020-007	113740	Water	24-MAY-2006 18:10	1.0	2	5000			1	
011	144_011	SAMPLE	187020-008	113740	Water	24-MAY-2006 18:42	1.0	2	5000			1	
012	144_012	SAMPLE	187020-002	113740	Water	24-MAY-2006 19:15	1.0	1	5000			1	
013	144_013	SAMPLE	187020-003	113740	Water	24-MAY-2006 19:47	1.0	1	5000			1	
014	144_014	CCV	mbtxe	113740		24-MAY-2006 20:19	1.0		5000			2 1 PASS/USE	
015	144_015	CCV	mbtxe	113740		24-MAY-2006 20:51	1.0		5000			2 1	
016	144_016	CCV	tvh	113740		24-MAY-2006 21:23	1.0		5000			3 1	
017	144_017	CCV	tvh	113740		24-MAY-2006 21:55	1.0		5000			3 1	
018	144_018	MS	QC341354	113740	Water	24-MAY-2006 22:27	1.0		5000	A	1.3	3 1	
019	144_019	MSD	QC341355	113740	Water	24-MAY-2006 22:59	1.0		5000			3 1	
020	144_020	SAMPLE	187020-004	113740	Water	24-MAY-2006 23:31	1.0	1	5000			1	
021	144_021	SAMPLE	187020-009	113740	Water	25-MAY-2006 00:04	1.0	1	5000			1	
022	144_022	SAMPLE	187020-010	113740	Water	25-MAY-2006 00:36	1.0	1	5000			1	
023	144_023	SAMPLE	187020-012	113740	Water	25-MAY-2006 01:08	1.0	1	5000			1	
024	144_024	SAMPLE	187020-016	113740	Water	25-MAY-2006 01:40	1.0	1	5000			1	
025	144_025	SAMPLE	187020-017	113740	Water	25-MAY-2006 02:12	1.0	1	5000			1	
026	144_026	SAMPLE	187019-001	113740	Water	25-MAY-2006 02:45	1.0		5000			1	
027	144_027	SAMPLE	187019-002	113740	Water	25-MAY-2006 03:17	1.0		5000			1	
028	144_028	CCV	tvh	113740		25-MAY-2006 03:49	1.0		5000			3 1 PASS/USE	
029	144_029	CCV	tvh	113740		25-MAY-2006 04:21	1.0		5000			3 1	
030	144_030	SAMPLE	187019-003	113740	Water	25-MAY-2006 04:53	1.0		5000	A	1.3	1	

Stds used: 1=S3248 2=S3406 3=S3323

Analyst: TJP Date: 5/25/06

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Dulce J. Perez 5/25/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316207934 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 24-MAY-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv13

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
031	144_031	CCV	tvh	113740		25-MAY-2006 05:25	1.0		5000			3 1 PASS/USE	
032	144_032	CCV	tvh	113740		25-MAY-2006 05:57	1.0		5000			3 1	

Dulce J. Perez 5/25/06

Stds used: 1=S3248 2=S3406 3=S3323

Analyst: TJP Date: 5/25/06

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Dulce J. Perez 5/25/06

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Read and Understood By

Dulce J. Perez 5/25/06 Signed Date

[illegible] 05/25/06 Signed Date

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PROJECT GC/MS Sequence Log Book

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316199245 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 18-MAY-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv13

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC SPK uL	VL	pH	Stds Used	>LR
001	138_001	X	ib			18-MAY-2006 08:45	1.0				1	
002	138_002	X	QC340572	113573	Water	18-MAY-2006 09:17	1.0				2 1 Not used	
003	138_003	X	QC340573	113573	Water	18-MAY-2006 09:49	1.0				3 1	
004	138_004	X	QC340571	113573	Water	18-MAY-2006 10:21	1.0				1	
005	138_005	X	ib			18-MAY-2006 16;15	1.0				1	
006	138_006	ICAL	tvh 1			18-MAY-2006 16:47	1.0				4 1 PASS/USE	
007	138_007	ICAL	tvh 2			18-MAY-2006 17:19	1.0				5 1	
008	138_008	ICAL	tvh 3			18-MAY-2006 17:51	1.0				6 1	
009	138_009	ICAL	tvh 4			18-MAY-2006 18:23	1.0				7 1	
010	138_010	ICAL	tvh 5			18-MAY-2006 18:55	1.0				7 1	
011	138_011	X	ib			18-MAY-2006 19:27	1.0				1	
012	138_012	X	carbmark			18-MAY-2006 19:58	1.0				8 9 1 USE	
013	138_013	X	ib			18-MAY-2006 20:30	1.0				1	
014	138_014	ICV	tvh			18-MAY-2006 21:02	1.0	5000			3 1 PASS/USE	

Stds used: 1=S3248 2=S3406 3=S3323 4=S3460 5=S3459 6=S3458 7=S3457 8=S1645 9=S1646

Analyst: [signature] Date: 05/22/06

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[signature] 05/22/06

Read and Understood By

Signed [signature] Date 05/22/06

Signed [signature] Date 5/22/06

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PROJECT GC 05 SEQUENCE LOG BOOK

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316186669 Instrument: GC05
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #5 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv13

Begun: 09-MAY-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	129_001	X	ib			09-MAY-2006 15:09	1.0					1	
002	129_002	X	ib			09-MAY-2006 15:41	1.0					1	
003	129_003	ICAL	btxe 1			09-MAY-2006 16:13	1.0					2 1 PASS/USE	
004	129_004	ICAL	mtbe 1			09-MAY-2006 16:46	1.0					3 1	
005	129_005	ICAL	btxe 2			09-MAY-2006 17:18	1.0					3 1	
006	129_006	ICAL	btxe 3			09-MAY-2006 17:50	1.0					3 1	
007	129_007	ICAL	btxe 4			09-MAY-2006 18:22	1.0					4 1	
008	129_008	ICAL	btxe 5			09-MAY-2006 18:54	1.0					4 1	
009	129_009	ICAL	btxe 6			09-MAY-2006 19:26	1.0					4 1	
010	129_010	ICAL	mtbe 7			09-MAY-2006 19:58	1.0					5 1	
011	129_011	X	ib			09-MAY-2006 20:30	1.0					1	
012	129_012	ICV	mbtxe			09-MAY-2006 21:02	1.0	1	5000			6 1 NOT USED	
013	129_013	ICV	mbtxe			09-MAY-2006 21:34	1.0		5000			6 1 PASS/USE	
014	129_014	X	ib			10-MAY-2006 10:43	1.0					1	
015	129_015	ICAL	tft/bfb 1			10-MAY-2006 11:15	1.0					7 PASS/USE	
016	129_016	ICAL	tft/bfb 2			10-MAY-2006 12:11	1.0					8	
017	129_017	ICAL	tft/bfb 3			10-MAY-2006 13:12	1.0					9	
018	129_018	ICAL	tft/bfb 4			10-MAY-2006 13:45	1.0					10	
019	129_019	ICAL	tft/bfb 5			10-MAY-2006 14:45	1.0					11	

Stds used: 1=S3248 2=S2850 3=S2849 4=S2848 5=S2847 6=S3079 7=S3289 8=S3290 9=S3291 10=S3292 11=S3293

Analyst: TJP Date: 5/11/06

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Dwelme D. Perry 5/11/06

Signed Dwelme D. Perry Date 5/11/06

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REPORTING SUMMARY FOR 187020 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
187020-001	Gasoline C7-C12	GC05	G	05/24/06 16:33
187020-001	MTBE	GC05	H	05/24/06 16:33
187020-001	Benzene	GC05	H	05/24/06 16:33
187020-001	Toluene	GC05	H	05/24/06 16:33
187020-001	Ethylbenzene	GC05	H	05/24/06 16:33
187020-001	Trifluorotoluene (FID)	GC05	G	05/24/06 16:33
187020-001	Bromofluorobenzene (FID)	GC05	G	05/24/06 16:33
187020-001	Trifluorotoluene (PID)	GC05	H	05/24/06 16:33
187020-001	Bromofluorobenzene (PID)	GC05	H	05/24/06 16:33
187020-001	Xylene (total)	GC05	H	05/24/06 16:33
187020-002	Gasoline C7-C12	GC05	G	05/24/06 19:15
187020-002	Trifluorotoluene (FID)	GC05	G	05/24/06 19:15
187020-002	Bromofluorobenzene (FID)	GC05	G	05/24/06 19:15
187020-003	Gasoline C7-C12	GC05	G	05/24/06 19:47
187020-003	Trifluorotoluene (FID)	GC05	G	05/24/06 19:47
187020-003	Bromofluorobenzene (FID)	GC05	G	05/24/06 19:47
187020-004	Gasoline C7-C12	GC05	G	05/24/06 23:31
187020-004	Trifluorotoluene (FID)	GC05	G	05/24/06 23:31
187020-004	Bromofluorobenzene (FID)	GC05	G	05/24/06 23:31
187020-005	Gasoline C7-C12	GC05	G	05/24/06 17:05
187020-005	MTBE	GC05	H	05/24/06 17:05
187020-005	Benzene	GC05	H	05/24/06 17:05
187020-005	Toluene	GC05	H	05/24/06 17:05
187020-005	Ethylbenzene	GC05	H	05/24/06 17:05
187020-005	Trifluorotoluene (FID)	GC05	G	05/24/06 17:05
187020-005	Bromofluorobenzene (FID)	GC05	G	05/24/06 17:05
187020-005	Trifluorotoluene (PID)	GC05	H	05/24/06 17:05
187020-005	Bromofluorobenzene (PID)	GC05	H	05/24/06 17:05
187020-005	Xylene (total)	GC05	H	05/24/06 17:05
187020-006	Gasoline C7-C12	GC05	G	05/24/06 17:38
187020-006	MTBE	GC05	H	05/24/06 17:38
187020-006	Benzene	GC05	H	05/24/06 17:38
187020-006	Toluene	GC05	H	05/24/06 17:38
187020-006	Ethylbenzene	GC05	H	05/24/06 17:38
187020-006	Trifluorotoluene (FID)	GC05	G	05/24/06 17:38
187020-006	Bromofluorobenzene (FID)	GC05	G	05/24/06 17:38
187020-006	Trifluorotoluene (PID)	GC05	H	05/24/06 17:38
187020-006	Bromofluorobenzene (PID)	GC05	H	05/24/06 17:38
187020-006	Xylene (total)	GC05	H	05/24/06 17:38
187020-007	Gasoline C7-C12	GC05	G	05/24/06 18:10
187020-007	MTBE	GC05	H	05/24/06 18:10
187020-007	Benzene	GC05	H	05/24/06 18:10
187020-007	Toluene	GC05	H	05/24/06 18:10
187020-007	Ethylbenzene	GC05	H	05/24/06 18:10
187020-007	Trifluorotoluene (FID)	GC05	G	05/24/06 18:10
187020-007	Bromofluorobenzene (FID)	GC05	G	05/24/06 18:10
187020-007	Trifluorotoluene (PID)	GC05	H	05/24/06 18:10
187020-007	Bromofluorobenzene (PID)	GC05	H	05/24/06 18:10

REPORTING SUMMARY FOR 187020 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
187020-007	Xylene (total)	GC05	H	05/24/06 18:10
187020-008	Gasoline C7-C12	GC05	G	05/24/06 18:42
187020-008	MTBE	GC05	H	05/24/06 18:42
187020-008	Benzene	GC05	H	05/24/06 18:42
187020-008	Toluene	GC05	H	05/24/06 18:42
187020-008	Ethylbenzene	GC05	H	05/24/06 18:42
187020-008	Trifluorotoluene (FID)	GC05	G	05/24/06 18:42
187020-008	Bromofluorobenzene (FID)	GC05	G	05/24/06 18:42
187020-008	Trifluorotoluene (PID)	GC05	H	05/24/06 18:42
187020-008	Bromofluorobenzene (PID)	GC05	H	05/24/06 18:42
187020-008	Xylene (total)	GC05	H	05/24/06 18:42
187020-009	Gasoline C7-C12	GC05	G	05/25/06 00:04
187020-009	Trifluorotoluene (FID)	GC05	G	05/25/06 00:04
187020-009	Bromofluorobenzene (FID)	GC05	G	05/25/06 00:04
187020-010	Gasoline C7-C12	GC05	G	05/25/06 00:36
187020-010	Trifluorotoluene (FID)	GC05	G	05/25/06 00:36
187020-010	Bromofluorobenzene (FID)	GC05	G	05/25/06 00:36
187020-012	Gasoline C7-C12	GC05	G	05/25/06 01:08
187020-012	Trifluorotoluene (FID)	GC05	G	05/25/06 01:08
187020-012	Bromofluorobenzene (FID)	GC05	G	05/25/06 01:08
187020-016	Gasoline C7-C12	GC05	G	05/25/06 01:40
187020-016	Trifluorotoluene (FID)	GC05	G	05/25/06 01:40
187020-016	Bromofluorobenzene (FID)	GC05	G	05/25/06 01:40
187020-017	Gasoline C7-C12	GC05	G	05/25/06 02:12
187020-017	Trifluorotoluene (FID)	GC05	G	05/25/06 02:12
187020-017	Bromofluorobenzene (FID)	GC05	G	05/25/06 02:12
QC341232	Gasoline C7-C12	GC05	G	05/24/06 12:41
QC341232	MTBE	GC05	H	05/24/06 12:41
QC341232	Benzene	GC05	H	05/24/06 12:41
QC341232	Toluene	GC05	H	05/24/06 12:41
QC341232	Ethylbenzene	GC05	H	05/24/06 12:41
QC341232	Trifluorotoluene (FID)	GC05	G	05/24/06 12:41
QC341232	Bromofluorobenzene (FID)	GC05	G	05/24/06 12:41
QC341232	Trifluorotoluene (PID)	GC05	H	05/24/06 12:41
QC341232	Bromofluorobenzene (PID)	GC05	H	05/24/06 12:41
QC341232	Xylene (total)	GC05	H	05/24/06 12:41
QC341233	MTBE	GC05	H	05/24/06 10:06
QC341233	Benzene	GC05	H	05/24/06 10:06
QC341233	Toluene	GC05	H	05/24/06 10:06
QC341233	Ethylbenzene	GC05	H	05/24/06 10:06
QC341233	Trifluorotoluene (PID)	GC05	H	05/24/06 10:06
QC341233	Bromofluorobenzene (PID)	GC05	H	05/24/06 10:06
QC341234	Gasoline C7-C12	GC05	G	05/24/06 11:55
QC341234	Trifluorotoluene (FID)	GC05	G	05/24/06 11:55
QC341234	Bromofluorobenzene (FID)	GC05	G	05/24/06 11:55

REPORTING SUMMARY FOR 187020 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC341354	Gasoline C7-C12	GC05	G	05/24/06 22:27
QC341354	Trifluorotoluene (FID)	GC05	G	05/24/06 22:27
QC341354	Bromofluorobenzene (FID)	GC05	G	05/24/06 22:27
QC341355	Gasoline C7-C12	GC05	G	05/24/06 22:59
QC341355	Trifluorotoluene (FID)	GC05	G	05/24/06 22:59
QC341355	Bromofluorobenzene (FID)	GC05	G	05/24/06 22:59

GC #05

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 113740
Date Started: 24-MAY-2006
Batched by : Thelma Perez

Analysis : N/A
Bgroup : TVH
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
187019-001			URS Corporation	Water	TVH	06-JUN-2006
187019-002			URS Corporation	Water	TVH	06-JUN-2006
187019-003			URS Corporation	Water	TVH	06-JUN-2006
187020-001			Treadwell & Rollo	Water	MBTXE, TVH	06-JUN-2006
187020-002			Treadwell & Rollo	Water	TVH	06-JUN-2006
187020-003			Treadwell & Rollo	Water	TVH	06-JUN-2006
187020-004			Treadwell & Rollo	Water	TVH	06-JUN-2006
187020-005			Treadwell & Rollo	Water	MBTXE, TVH	06-JUN-2006
187020-006			Treadwell & Rollo	Water	MBTXE, TVH	06-JUN-2006
187020-007			Treadwell & Rollo	Water	MBTXE, TVH	06-JUN-2006
187020-008			Treadwell & Rollo	Water	MBTXE, TVH	06-JUN-2006
187020-009			Treadwell & Rollo	Water	TVH	06-JUN-2006
187020-010			Treadwell & Rollo	Water	TVH	06-JUN-2006
187020-012			Treadwell & Rollo	Water	TVH	06-JUN-2006
187020-016			Treadwell & Rollo	Water	TVH	06-JUN-2006
187020-017			Treadwell & Rollo	Water	TVH	06-JUN-2006
QC341232	BLANK			Water		
QC341233	LCS			Water		
QC341234	LCS			Water		
QC341354	MS	of 187020-001		Water		
QC341355	MSD	of 187020-001		Water		

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Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water
As of 06/19/06

Analyte	Units	GC04 A	GC04 J	GC05 G	GC07 A	GC19 X
Gasoline C6-C10	ug/L	6.7	6.2	4.8	10	21
Gasoline C6-C12	ug/L	5.5	6.8	4.5	14	21
Gasoline C7-C12	ug/L	4.8	7.2	4.2	15	27
JP-4 C7-C12	ug/L		12	9.9	19	4.6
Gasoline C6-C8	ug/L				7.0	
Gasoline C8-C10	ug/L				12	
Trifluorotoluene (FID)	ug/L	3.9			9.8	
Bromofluorobenzene (FID)	ug/L	5.2			7.5	

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8021B Water
As of 06/19/06

Analyte	Units	GC04 K	GC04 L	GC05 H	GC05 I	GC07 B	GC07 C	GC19 Y	GC19 Z
MTBE	ug/L	0.45	0.83	0.30	0.62	0.35	0.23	0.49	0.18
Benzene	ug/L	0.094	0.16	0.034	0.057	0.23	0.035	0.073	0.033
Toluene	ug/L	0.14	0.11	0.048	0.15	0.069	0.024	0.13	0.025
Ethylbenzene	ug/L	0.038	0.12	0.036	0.17	0.084	0.056	0.14	0.024
m,p-Xylenes	ug/L	0.10	0.21	0.030	0.17	0.090	0.027	0.13	0.039
o-Xylene	ug/L	0.12	0.10	0.083	0.19	0.13	0.040	0.15	0.015

TOTAL EXTRACTABLE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	05/23/06
Units:	ug/L	Received:	05/24/06
Diln Fac:	1.000	Prepared:	06/03/06
Batch#:	114090		

Field ID: 600GW101
Type: SAMPLE
Lab ID: 187020-001
Analyzed: 06/07/06
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	93	65-135

Field ID: 600GW105
Type: SAMPLE
Lab ID: 187020-002
Analyzed: 06/07/06
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	96	65-135

Field ID: 600GW106
Type: SAMPLE
Lab ID: 187020-003
Analyzed: 06/07/06
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	84	65-135

Field ID: 600GW108
Type: SAMPLE
Lab ID: 187020-004
Analyzed: 06/07/06
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	105	65-135

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	05/23/06
Units:	ug/L	Received:	05/24/06
Diln Fac:	1.000	Prepared:	06/03/06
Batch#:	114090		

Field ID: 610GW101 Analyzed: 06/07/06
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 187020-005

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	102	65-135

Field ID: 610GW102 Analyzed: 06/07/06
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 187020-006

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	101	65-135

Field ID: 610GW103 Analyzed: 06/07/06
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 187020-007

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	101	65-135

Field ID: DUP0523061A Analyzed: 06/06/06
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 187020-008

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	103	65-135

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	05/23/06
Units:	ug/L	Received:	05/24/06
Diln Fac:	1.000	Prepared:	06/03/06
Batch#:	114090		

Field ID: BB3GW100 Analyzed: 06/06/06
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 187020-009

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	98	65-135

Field ID: DUP0523063A Analyzed: 06/06/06
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 187020-010

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	71	65-135

Field ID: BB3SW104 Analyzed: 06/06/06
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 187020-012

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

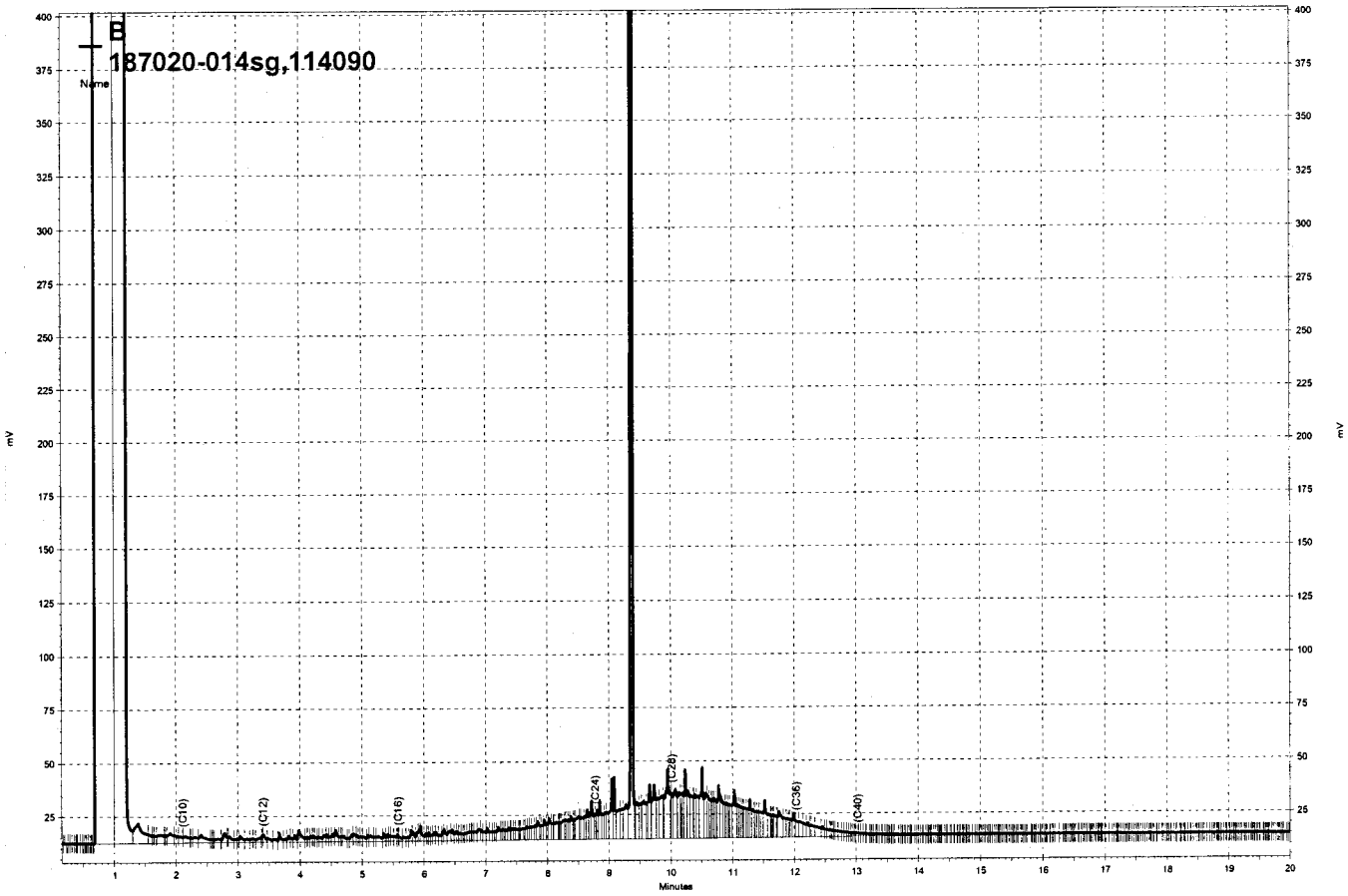
Surrogate	%REC	Limits
Hexacosane	96	65-135

Field ID: BB1PZ101 Analyzed: 06/07/06
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 187020-014

Analyte	Result	RL
Diesel C12-C24	120 H Y	50
Motor Oil C24-C36	420	300

Surrogate	%REC	Limits
Hexacosane	84	65-135

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit



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BB1PZ101

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	05/23/06
Units:	ug/L	Received:	05/24/06
Diln Fac:	1.000	Prepared:	06/03/06
Batch#:	114090		

Field ID:	BB1PZ100	Analyzed:	06/07/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	187020-015		

Analyte	Result	RL
Diesel C12-C24	130 H Y	50
Motor Oil C24-C36	630	300

Surrogate	%REC	Limits
Hexacosane	101	65-135

Field ID:	LF6GW104	Analyzed:	06/06/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	187020-018		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	97	65-135

Field ID:	LF6GW106	Analyzed:	06/06/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	187020-020		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

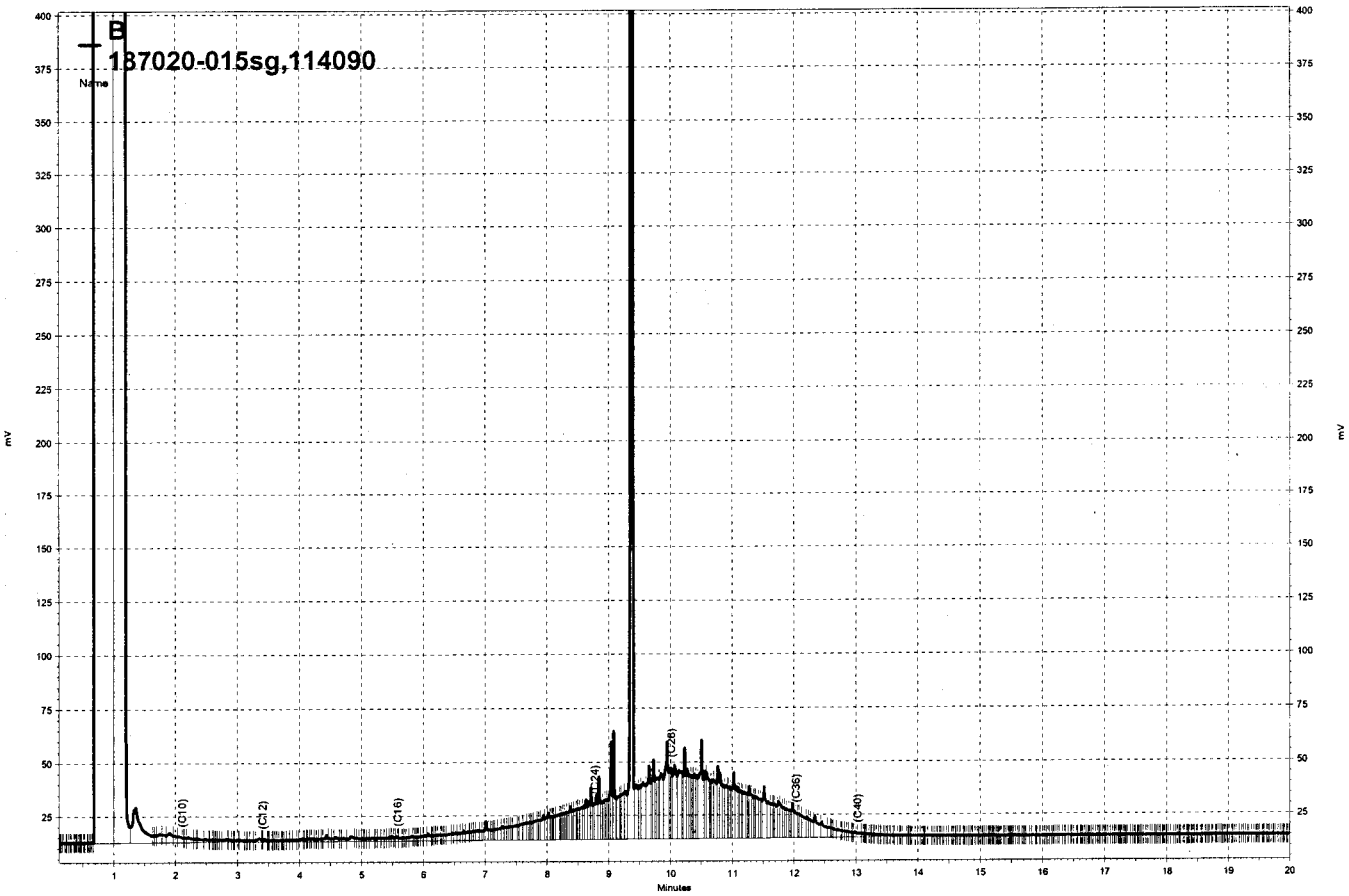
Surrogate	%REC	Limits
Hexacosane	94	65-135

Type:	BLANK	Analyzed:	06/07/06
Lab ID:	QC342633	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	90	65-135

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit



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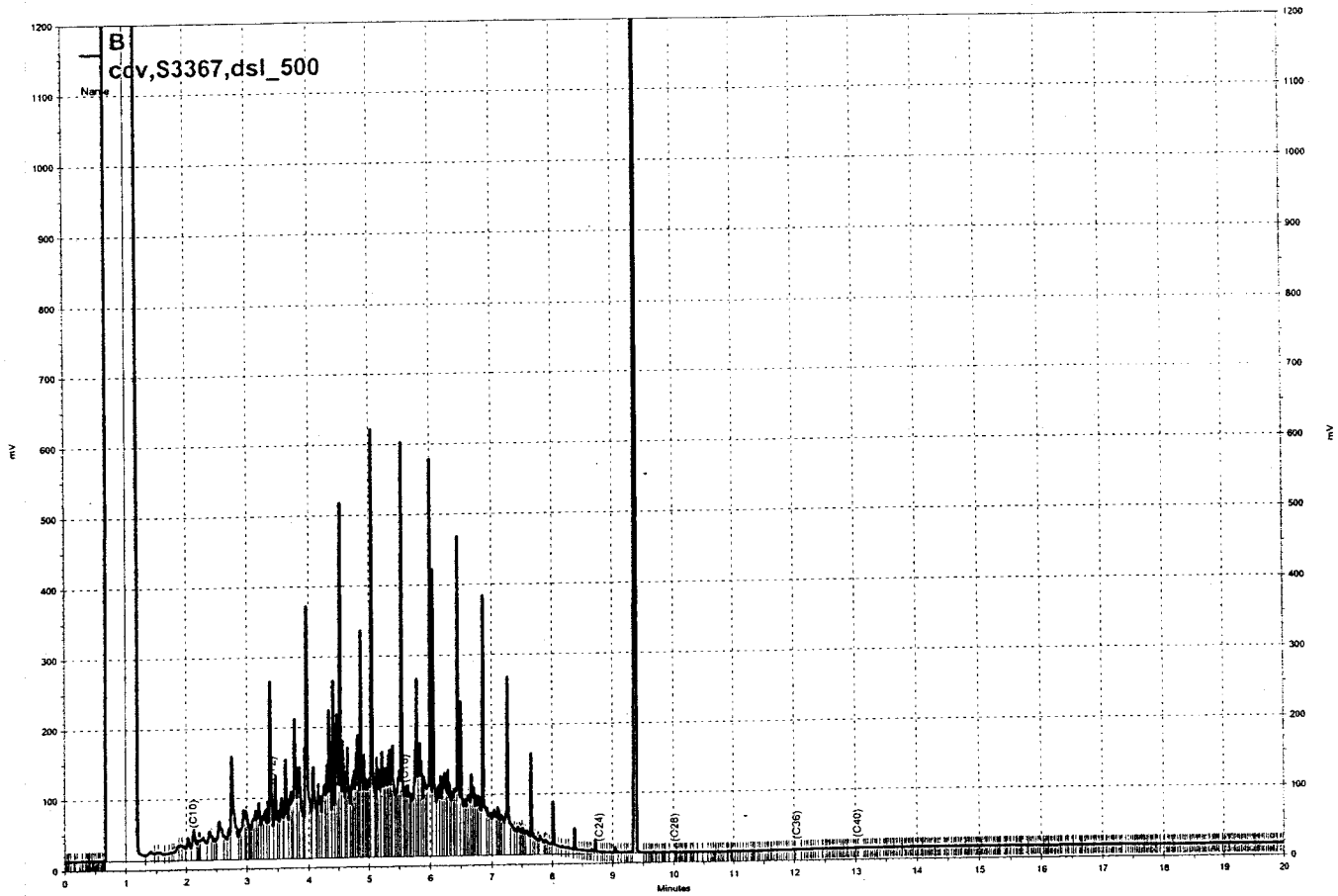
BB1PZ100



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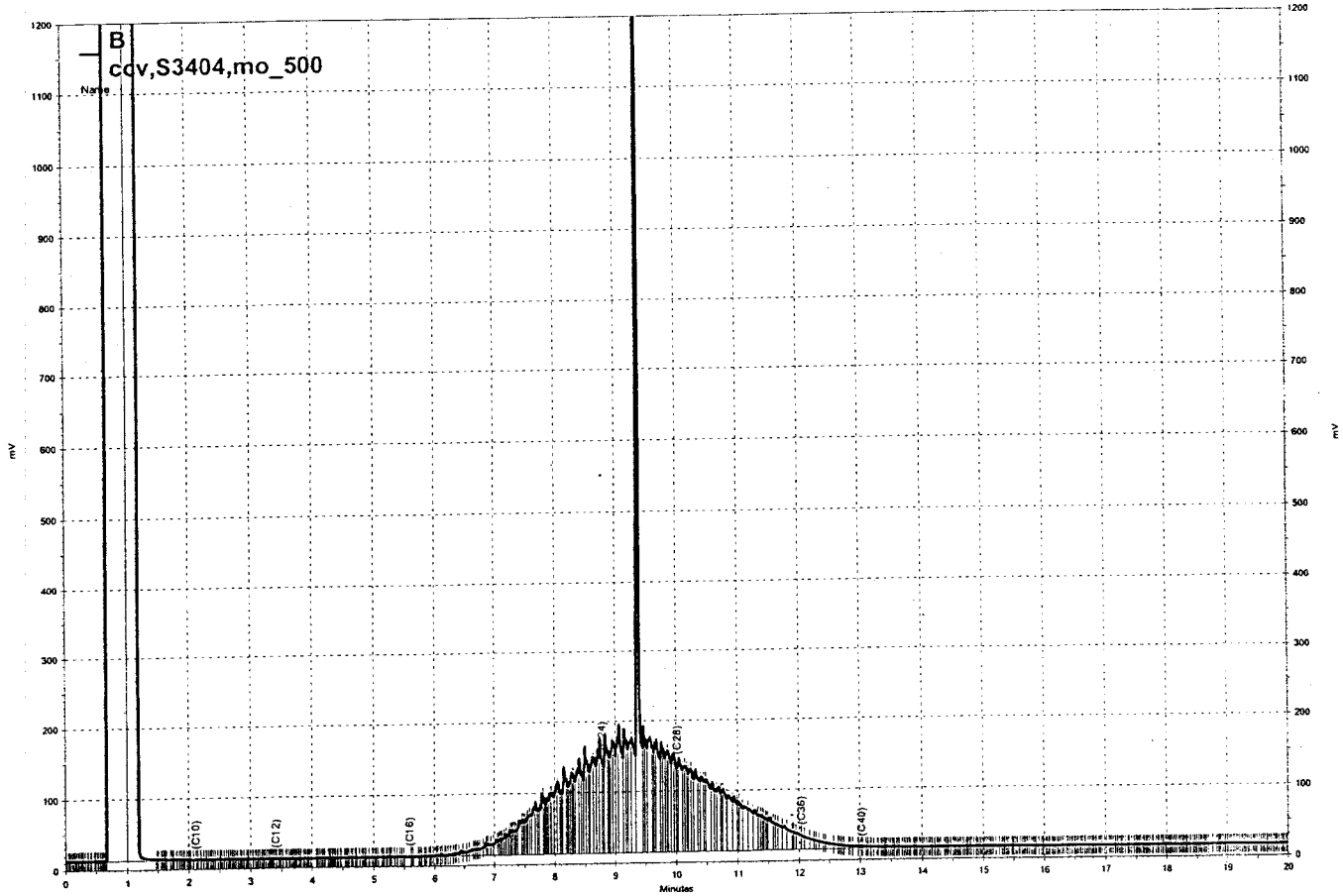
Diesel



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Motor Oil

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	LF6GW103	Batch#:	114090
Matrix:	Water	Sampled:	05/23/06
Units:	ug/L	Received:	05/24/06
Diln Fac:	1.000	Prepared:	06/03/06

Type:	SAMPLE	Analyzed:	06/06/06
Lab ID:	187020-017	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24 (SGCU)	76 Y	50

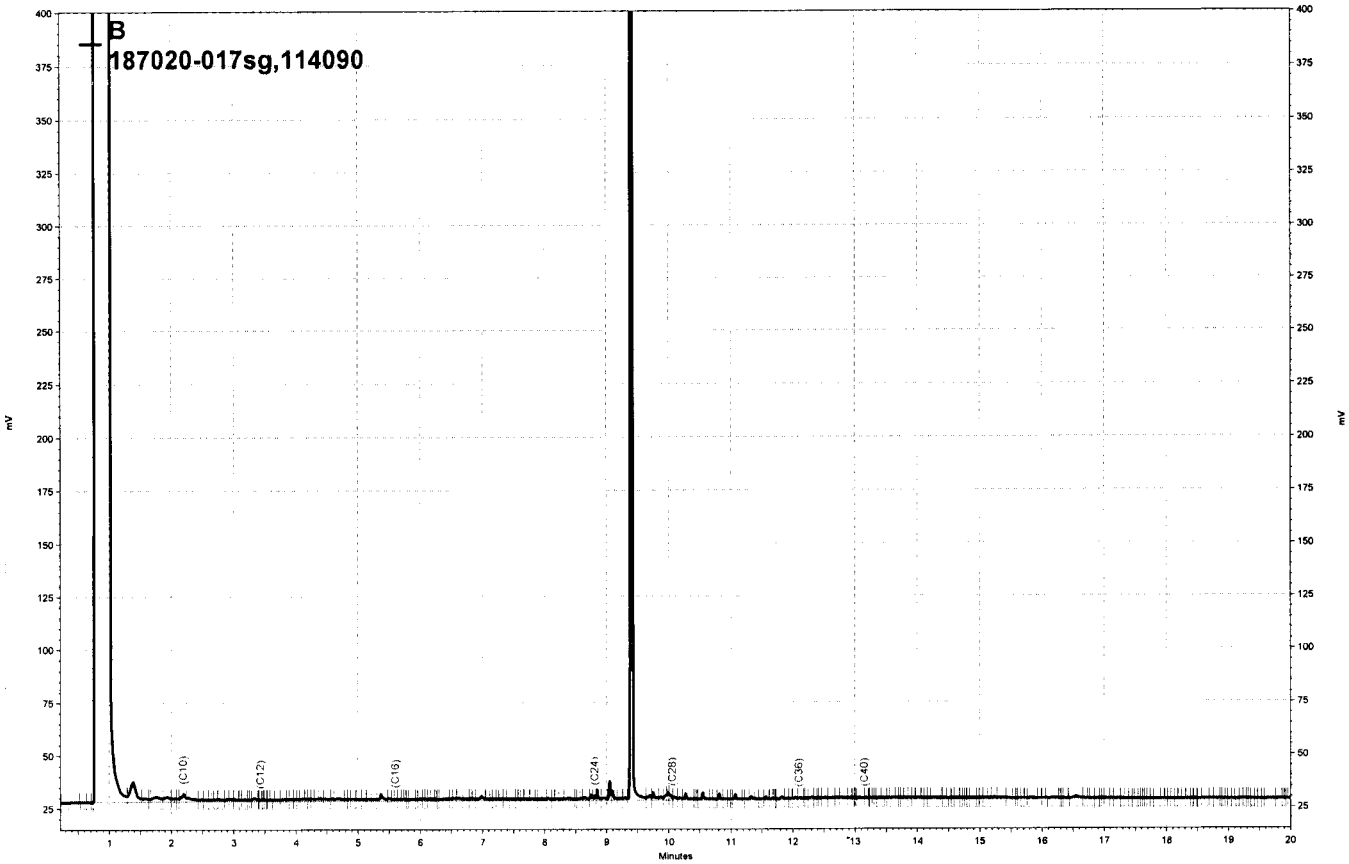
Surrogate	%REC	Limits
Hexacosane (SGCU)	109	65-135

Type:	BLANK	Analyzed:	06/07/06
Lab ID:	QC342633	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24 (SGCU)	ND	50

Surrogate	%REC	Limits
Hexacosane (SGCU)	90	65-135

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
SGCU= Silica gel cleanup



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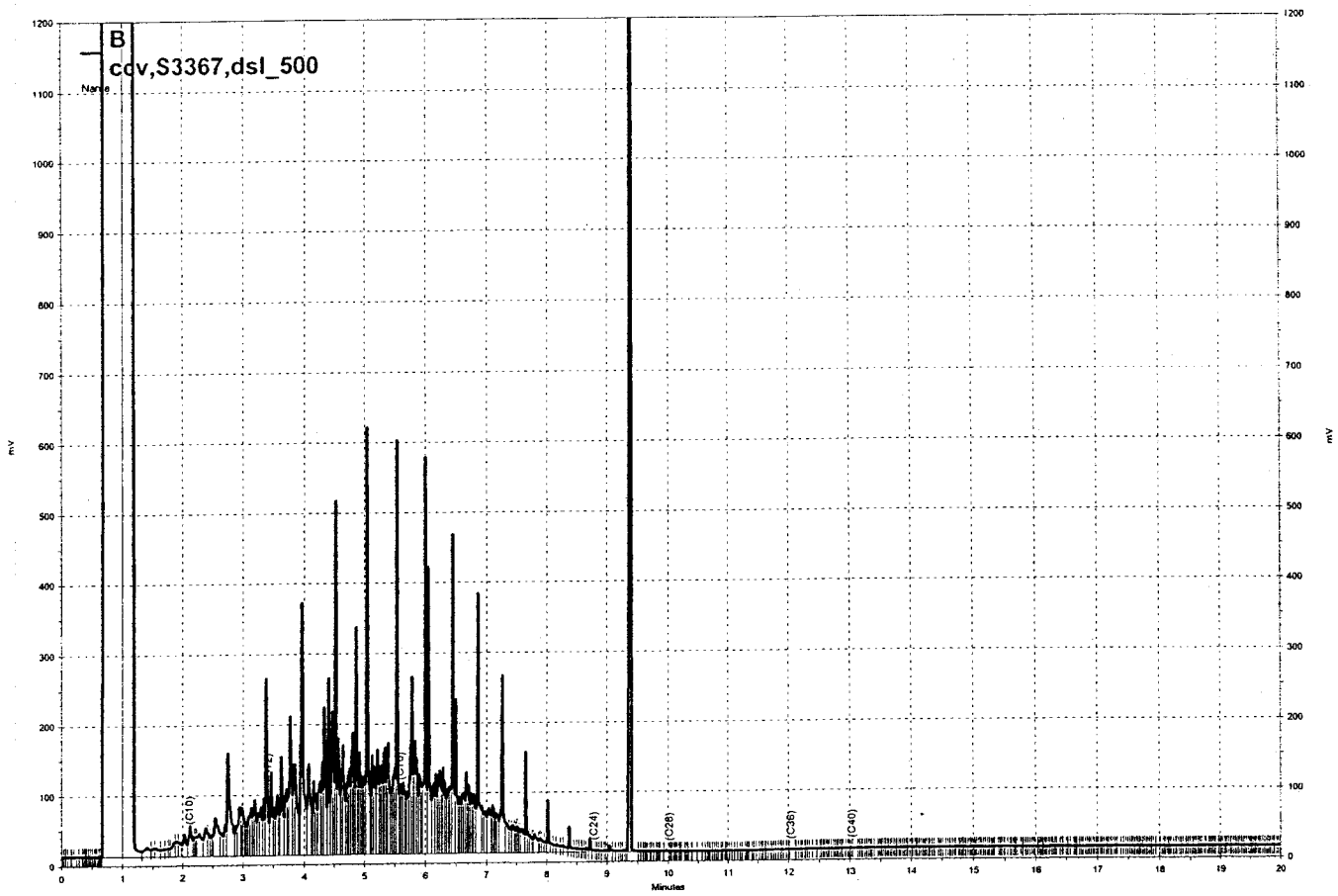
LF6GW103



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Diesel

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC342634	Batch#:	114090
Matrix:	Water	Prepared:	06/03/06
Units:	ug/L	Analyzed:	06/06/06

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	2,500	2,411	96	65-135

Surrogate	%REC	Limits
Hexacosane	101	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	114090
MSS Lab ID:	187061-013	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	ug/L	Prepared:	06/03/06
Diln Fac:	1.000	Analyzed:	06/06/06

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC342635

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	<32.78	2,500	2,404	96	65-135

Surrogate	%REC	Limits
Hexacosane	99	65-135

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC342636

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,580	103	65-135	7	35

Surrogate	%REC	Limits
Hexacosane	106	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187020 GCSV Water: EPA 8015B

Inst : GC13B
Calnum : 146209271001
Units : mg/L

Name : gc13dslcal5/26/06
Date : 25-MAY-2006 22:31
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	145_018	146209271018	dsl_10	25-MAY-2006 22:31	S3433
L2	145_019	146209271019	dsl_100	25-MAY-2006 23:00	S3434
L3	145_020	146209271020	dsl_250	25-MAY-2006 23:28	S3435
L4	145_021	146209271021	dsl_500	25-MAY-2006 23:57	S3436
L5	145_022	146209271022	dsl_1000	26-MAY-2006 00:25	S3437
L6	145_023	146209271023	dsl_2500	26-MAY-2006 00:53	S3438
L7	145_024	146209271024	dsl_5000	26-MAY-2006 01:22	S3432

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	%RSD	r^2 MnR^2	MxRSD	Flg
Diesel C12-C24	B	34482	22340	23238	23059	22420	23906	24230	AVRG		4.03E-5		24811	17	0.995	20	

64

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 187020 GCSV Water
EPA 8015B

Inst : GC13B
Calnum : 146209271001

Name : gc13dslcal5/26/06
Cal Date: 25-MAY-2006

ICV 146209271026 (145_026 26-MAY-2006) stds: S2708

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	B	24811	24223	500.0	488.2	mg/L	-2	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187020 GCSV Water: EPA 8015B

Inst : GC13B
Calnum : 146220820002
Units : mg/L

Name : Hex
Date : 02-JUN-2006 15:58
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	153_013	146220820013	HEX_5	02-JUN-2006 15:58	S2694
L2	153_014	146220820014	HEX_10	02-JUN-2006 16:26	S2695
L3	153_015	146220820015	HEX_25	02-JUN-2006 16:54	S2696
L4	153_016	146220820016	HEX_50	02-JUN-2006 17:23	S2697
L5	153_017	146220820017	HEX_75	02-JUN-2006 17:51	S2698

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	B	33036	33431	35121	31869	31768	AVRG		3.03E-5		33045	4	0.995	20	

99

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187020 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166117087001
Units : mg/L

Date : 22-MAR-2006 12:39
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	081b006	166117087006	dsl_10	22-MAR-2006 12:39	S2961
L2	081b007	166117087007	dsl_100	22-MAR-2006 13:07	S2938
L3	081b008	166117087008	dsl_250	22-MAR-2006 13:34	S2939
L4	081b009	166117087009	dsl_500	22-MAR-2006 14:02	S2940
L5	081b010	166117087010	dsl_1000	22-MAR-2006 14:30	S2941
L6	081b011	166117087011	dsl_2500	22-MAR-2006 14:57	S2942
L7	081b012	166117087012	dsl_5000	22-MAR-2006 15:25	S2936

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	60107	59785	55253	54313	53973	54874	53381	AVRG		1.79E-5		55955	5	0.995	20	

67

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

166117087001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 187020 GCSV Water
EPA 8015B

Inst : GC15B
Calnum : 166117087001 Cal Date: 22-MAR-2006

ICV 166117087014 (081b014 22-MAR-2006) stds: S2708

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	55955	53766	500.0	480.4	mg/L	-4	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187020 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166219336001
Units : mg/L

Name : motor oil
Date : 01-JUN-2006 17:48
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	152b010	166219336010	mo_50	01-JUN-2006 17:48	S3326
L2	152b011	166219336011	mo_250	01-JUN-2006 18:15	S3327
L3	152b012	166219336012	mo_500	01-JUN-2006 18:43	S3328
L4	152b013	166219336013	mo_1000	01-JUN-2006 19:10	S3329
L5	152b014	166219336014	mo_2500	01-JUN-2006 19:38	S3330
L6	152b015	166219336015	mo_5000	01-JUN-2006 20:05	S3325

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	36587	41619	41827	41070	34092	29342	AVRG		2.67E-5		37423	13	0.995	20	

69

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

166219336001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187020 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166158996002
Units : mg/L

Name : gc15hexcal4/21/06
Date : 20-APR-2006 16:22
X Axis : R

Reviewer: CW

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	110b013	166158996013	hex_5	20-APR-2006 16:22	S2694
L2	110b014	166158996014	hex_10	20-APR-2006 16:50	S2695
L3	110b015	166158996015	hex_25	20-APR-2006 17:19	S2696
L4	110b016	166158996016	hex_50	20-APR-2006 17:47	S2697
L5	110b017	166158996017	hex_75	20-APR-2006 18:15	S2698

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	73445	71655	70423	70811	69635	AVRG		1.40E-5		71194	2	0.995	20	

70

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

166158996002

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187020 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176147877001
Units : mg/L

Name : diesel
Date : 12-APR-2006 23:32
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	102a010	176147877010	dsl_10	12-APR-2006 23:32	S2961
L2	102a011	176147877011	dsl_100	12-APR-2006 23:59	S2938
L3	102a012	176147877012	dsl_250	13-APR-2006 00:27	S2939
L4	102a013	176147877013	dsl_500	13-APR-2006 00:54	S2983
L5	102a014	176147877014	dsl_1000	13-APR-2006 01:22	S2941
L6	102a015	176147877015	dsl_2500	13-APR-2006 01:49	S2942
L7	102a016	176147877016	dsl_5000	13-APR-2006 02:16	S2936

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	82591	74678	68711	62227	73614	66385	64708	AVRG		1.42E-5		70416	10	0.995	20	

71

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 187020 GCSV Water
EPA 8015B

Inst : GC17A
Calnum : 176147877001

Name : diesel
Cal Date: 12-APR-2006

ICV 176147877018 (102a018 13-APR-2006) stds: S2708

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	70416	64446	500.0	457.6	mg/L	-8	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187020 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176189135001
Units : mg/L

Name : Mo
Date : 11-MAY-2006 19:27
X Axis : R

Reviewer: CW

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	131a010	176189135010	mo_50	11-MAY-2006 19:27	S3326
L2	131a011	176189135011	mo_250	11-MAY-2006 19:55	S3327
L3	131a012	176189135012	mo_500	11-MAY-2006 20:22	S3328
L4	131a013	176189135013	mo_1000	11-MAY-2006 20:49	S3329
L5	131a014	176189135014	mo_2500	11-MAY-2006 21:16	S3330
L6	131a015	176189135015	mo_5000	11-MAY-2006 21:43	S3325

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	38300	44103	45195	50532	50230	46527	AVRG		2.18E-5		45815	10	0.995	20	

73

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187020 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176147877003
Units : mg/L

Name : hexacosane
Date : 13-APR-2006 07:43
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	102a028	176147877028	hex_5	13-APR-2006 07:43	S2694
L2	102a029	176147877029	hex_10	13-APR-2006 08:11	S2695
L3	102a030	176147877030	hex_25	13-APR-2006 08:38	S2696
L4	102a031	176147877031	hex_50	13-APR-2006 09:06	S2697
L5	102a032	176147877032	hex_75	13-APR-2006 09:33	S2698

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	80120	78656	87108	78721	84794	AVRG		1.22E-5		81880	5	0.995	20	

74

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CONTINUING CALIBRATION SUMMARY FOR 187020 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC13B	B	146226556006	06-JUN-2006 12:07	146209271001	25-MAY-2006	24811	27947	1000.0	1126.4	mg/L	13	15	
GC13B	B	146226556018	06-JUN-2006 22:38	146209271001	25-MAY-2006	24811	27173	250.00	273.80	mg/L	10	15	
GC15B	B	166226541033	06-JUN-2006 22:57	166117087001	22-MAR-2006	55955	56642	250.00	253.07	mg/L	1	15	
GC15B	B	166226541051	07-JUN-2006 07:12	166117087001	22-MAR-2006	55955	55039	500.00	491.81	mg/L	-2	15	
GC15B	B	166226541063	07-JUN-2006 13:08	166117087001	22-MAR-2006	55955	55271	1000.0	987.77	mg/L	-1	15	
GC17A	A	176227147003	06-JUN-2006 18:41	176147877001	12-APR-2006	70416	67363	500.00	478.32	mg/L	-4	15	
GC17A	A	176227147016	07-JUN-2006 01:07	176147877001	12-APR-2006	70416	73607	1000.0	1045.3	mg/L	5	15	

CONTINUING CALIBRATION SUMMARY FOR 187020 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC15B	B	166226541034	06-JUN-2006 23:24	166219336001	01-JUN-2006	37423	40840	500.00	545.65	mg/L	9	15	
GC15B	B	166226541052	07-JUN-2006 07:40	166219336001	01-JUN-2006	37423	40270	500.00	538.04	mg/L	8	15	
GC15B	B	166226541064	07-JUN-2006 13:36	166219336001	01-JUN-2006	37423	40710	500.00	543.91	mg/L	9	15	
GC17A	A	176227147004	06-JUN-2006 19:08	176189135001	11-MAY-2006	45815	50752	500.00	553.88	mg/L	11	15	
GC17A	A	176227147017	07-JUN-2006 01:34	176189135001	11-MAY-2006	45815	54087	500.00	590.29	mg/L	18	15	c+ ***

+=high bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 187020 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC13B	B	146226556006	06-JUN-2006 12:07	146220820002	02-JUN-2006	33045	34924	50.000	52.843	mg/L	6	15	
GC13B	B	146226556018	06-JUN-2006 22:38	146220820002	02-JUN-2006	33045	36245	50.000	54.842	mg/L	10	15	
GC15B	B	166226541033	06-JUN-2006 22:57	166158996002	20-APR-2006	71194	73023	50.000	51.284	mg/L	3	15	
GC15B	B	166226541051	07-JUN-2006 07:12	166158996002	20-APR-2006	71194	70770	50.000	49.702	mg/L	-1	15	
GC15B	B	166226541063	07-JUN-2006 13:08	166158996002	20-APR-2006	71194	71736	50.000	50.381	mg/L	1	15	
GC17A	A	176227147003	06-JUN-2006 18:41	176147877003	13-APR-2006	81880	85049	50.000	51.935	mg/L	4	15	
GC17A	A	176227147016	07-JUN-2006 01:07	176147877003	13-APR-2006	81880	90352	50.000	55.174	mg/L	10	15	

SEQUENCE SUMMARY FOR 187020 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166117087 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	081b001	X	primer			22-MAR-2006 07:27	1.0						
002	081b002	X	ib			22-MAR-2006 07:55	1.0						
003	081b003	CCV	dsl_500			22-MAR-2006 08:27	1.0	1.0	6		3	1	
004	081b004	CCV	mo_500			22-MAR-2006 08:55	1.0	1.0	2		3	2	
005	081b005	X	ib			22-MAR-2006 12:12	1.0						
006	081b006	ICAL	dsl_10			22-MAR-2006 12:39	1.0	1.0				3	
007	081b007	ICAL	dsl_100			22-MAR-2006 13:07	1.0	1.0				4	
008	081b008	ICAL	dsl_250			22-MAR-2006 13:34	1.0	1.0				5	
009	081b009	ICAL	dsl_500			22-MAR-2006 14:02	1.0	1.0				6	
010	081b010	ICAL	dsl_1000			22-MAR-2006 14:30	1.0	1.0				7	
011	081b011	ICAL	dsl_2500			22-MAR-2006 14:57	1.0	1.0				8	
012	081b012	ICAL	dsl_5000			22-MAR-2006 15:25	1.0	1.0				9	
013	081b013	X	ib			22-MAR-2006 15:53	1.0						
014	081b014	ICV	dsl_500			22-MAR-2006 16:21	1.0	1.0			3	10	
015	081b015	X	ib			22-MAR-2006 16:49	1.0						78
016	081b016	CCV	dsl_500			22-MAR-2006 17:17	1.0	1.0			3	1	
017	081b017	CCV	mo_500			22-MAR-2006 17:45	1.0	1.0	2		3	2	
018	081b018	CCV	ker_250			22-MAR-2006 18:43	1.0	1.0			3	11	
019	081b019	LCS	QC332247 S	111483	Soil	22-MAR-2006 19:18	1.0	0.09921			3		
020	081b020	BLANK	QC332246 S	111483	Soil	22-MAR-2006 19:45	1.0	0.1007	7		3		
021	081b021	MSS	185620-003 S	111483	Soil	22-MAR-2006 20:13	1.0	0.1001	9		3		
022	081b022	MS	QC332248 S	111483	Soil	22-MAR-2006 20:41	1.0	0.1006			3		
023	081b023	MSD	QC332249 S	111483	Soil	22-MAR-2006 21:09	1.0	0.1004			3		
024	081b024	X	ib			22-MAR-2006 21:37	1.0						
025	081b025	SAMPLE	185463-003 S	111513	Water	22-MAR-2006 22:05	1.0	0.005			3		
026	081b026	SAMPLE	185463-004 S	111513	Water	22-MAR-2006 22:33	1.0	0.005			3		
027	081b027	SAMPLE	185639-002	111483	Soil	22-MAR-2006 23:01	1.0	0.1002			3		
028	081b028	SAMPLE	185640-001	111483	Soil	22-MAR-2006 23:29	3.0	0.09974	3		3	19:BUNKC:=35667.6	
029	081b029	SAMPLE	185640-002	111483	Soil	22-MAR-2006 23:57	20.0	0.2001	2		3	12:BUNKC:=30917.1	
030	081b030	X	ib			23-MAR-2006 00:24	1.0						
031	081b031	CCV	dsl_1000			23-MAR-2006 00:52	1.0	1.0			3	12	

Stds used: 1=S2871 2=S2971 3=S2961 4=S2938 5=S2939 6=S2940 7=S2941 8=S2942 9=S2936 10=S2708 11=S2806 12=S2885

SEQUENCE SUMMARY FOR 187020 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166117087 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	081b032	CCV	mo_500			23-MAR-2006 01:20	1.0	1.0	2		3	2	
033	081b033	X	ccv			23-MAR-2006 01:48	1.0					12	
034	081b034	CCV	ker_250			23-MAR-2006 02:16	1.0	1.0			3	11	

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Stds used: 1=S2871 2=S2971 3=S2961 4=S2938 5=S2939 6=S2940 7=S2941 8=S2942 9=S2936 10=S2708 11=S2806 12=S2885

SEQUENCE SUMMARY FOR 187020 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176147877 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 12-APR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	102a001	X	Primer			12-APR-2006 16:37	1.0						
002	102a002	X	ib			12-APR-2006 17:04	1.0						
003	102a003	X	c10			12-APR-2006 17:32	1.0						
004	102a004	X	c12-50			12-APR-2006 18:00	1.0						
005	102a005	CCV	mo_500			12-APR-2006 18:27	1.0	1.0	3		3	1	
006	102a006	CCV	dsl_1000			12-APR-2006 18:55	1.0	1.0	3		3	2	
007	102a007	X	ib			12-APR-2006 22:10	1.0						
008	102a008	X	ib			12-APR-2006 22:37	1.0						
009	102a009	X	ib			12-APR-2006 23:04	1.0						
010	102a010	ICAL	dsl_10			12-APR-2006 23:32	1.0	1.0				3	
011	102a011	ICAL	dsl_100			12-APR-2006 23:59	1.0	1.0				4	
012	102a012	ICAL	dsl_250			13-APR-2006 00:27	1.0	1.0				5	
013	102a013	ICAL	dsl_500			13-APR-2006 00:54	1.0	1.0				6	
014	102a014	ICAL	dsl_1000			13-APR-2006 01:22	1.0	1.0				7	
015	102a015	ICAL	dsl_2500			13-APR-2006 01:49	1.0	1.0				8	80
016	102a016	ICAL	dsl_5000			13-APR-2006 02:16	1.0	1.0				9	
017	102a017	X	ib			13-APR-2006 02:43	1.0						
018	102a018	ICV				13-APR-2006 03:11	1.0	1.0			3	10	
019	102a019	X	ib			13-APR-2006 03:38	1.0						
020	102a020	ICAL	mo_50			13-APR-2006 04:05	1.0	1.0				11	
021	102a021	ICAL	mo_250			13-APR-2006 04:33	1.0	1.0				12	
022	102a022	ICAL	mo_500			13-APR-2006 05:00	1.0	1.0				13	
023	102a023	ICAL	mo_1000			13-APR-2006 05:27	1.0	1.0				14	
024	102a024	ICAL	mo_2500			13-APR-2006 05:54	1.0	1.0				15	
025	102a025	ICAL	mo_5000			13-APR-2006 06:22	1.0	1.0				16	
026	102a026	X	ib			13-APR-2006 06:49	1.0						
027	102a027	X	ib			13-APR-2006 07:16	1.0						
028	102a028	ICAL	hex_5			13-APR-2006 07:43	1.0	1.0				17	
029	102a029	ICAL	hex_10			13-APR-2006 08:11	1.0	1.0				18	
030	102a030	ICAL	hex_25			13-APR-2006 08:38	1.0	1.0				19	

Stds used: 1=S2971 2=S3158 3=S2961 4=S2938 5=S2939 6=S2983 7=S2941 8=S2942 9=S2936 10=S2708 11=S2118 12=S2119 13=S2120 14=S2121 15=S2122 16=S2117 17=S2694 18=S2695 19=S2696 20=S2697 21=S2698 22=S3131 23=S3048

SEQUENCE SUMMARY FOR 187020 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176147877 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 12-APR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
031	102a031	ICAL	hex_50			13-APR-2006 09:06	1.0	1.0				20	
032	102a032	ICAL	hex_75			13-APR-2006 09:33	1.0	1.0				21	
033	102a033	X	ib			13-APR-2006 10:01	1.0						
034	102a034	CCV	mo_500			13-APR-2006 10:28	1.0	1.0			3	1	
035	102a035	CCV	dsl_500			13-APR-2006 10:55	1.0	1.0			3	22	
036	102a036	SAMPLE	186067-001	112312	Soil	13-APR-2006 15:10	1.0	0.1008			3		
037	102a037	SAMPLE	186067-004	112312	Soil	13-APR-2006 15:37	1.0	0.1009			3		
038	102a038	SAMPLE	186067-006	112312	Soil	13-APR-2006 16:05	1.0	0.1001	1		3		14:BUNKC:=45721.0
039	102a039	X	ib			13-APR-2006 16:32	1.0						
040	102a040	SAMPLE	186067-008	112312	Soil	13-APR-2006 17:00	1.0	0.1000	1		3		14:BUNKC:=90714.4
041	102a041	SAMPLE	186067-007	112312	Soil	13-APR-2006 17:27	1.0	0.0995			3		3:BUNKC:=12142.2
042	102a042	SAMPLE	186067-009	112312	Soil	13-APR-2006 17:54	1.0	0.0995	1		3		14:BUNKC:=101945
043	102a043	SAMPLE	186067-012	112312	Soil	13-APR-2006 18:22	1.0	0.09929	1		3		14:BUNKC:=153174
044	102a044	X	ib			13-APR-2006 18:49	1.0						
045	102a045	SAMPLE	186067-011	112312	Soil	13-APR-2006 19:17	5.0	0.0998	1		3		14:BUNKC:=68574.0
046	102a046	SAMPLE	186067-010	112312	Soil	13-APR-2006 19:44	5.0	0.09923	1		3		14:BUNKC:=30825.7
047	102a047	SAMPLE	186067-005	112312	Soil	13-APR-2006 20:11	1.0	0.1006	2		3		20:BUNKC:=40037.7
048	102a048	X	ib			13-APR-2006 20:39	1.0						
049	102a049	CCV	mo_500			13-APR-2006 21:06	1.0	1.0			3	1	
050	102a050	CCV	dsl_1000			13-APR-2006 21:33	1.0	1.0			3	2	
051	102a051	X	dsl_1000			13-APR-2006 22:01	1.0					2	
052	102a052	X	mo_500			13-APR-2006 22:28	1.0	1.0		1	3	1	
053	102a053	SAMPLE	186067-003	112312	Soil	13-APR-2006 22:56	2.0	0.101	1		3		
054	102a054	SAMPLE	186045-005	112312	Soil	13-APR-2006 23:23	50.0	0.1003	1		3		
055	102a055	X	ib			13-APR-2006 23:50	1.0						
056	102a056	LCS	QC335509 S	112312	Soil	14-APR-2006 00:18	1.0	0.09994			3		
057	102a057	BLANK	QC335508 S	112312	Soil	14-APR-2006 00:46	1.0	0.09944	13		3		
058	102a058	X	185948-008 S	112312	Soil	14-APR-2006 01:13	1.0	0.0996	13		3		
059	102a059	MS	QC335510 S	112312	Soil	14-APR-2006 01:41	1.0	0.09984			3		
060	102a060	MSD	QC335511 S	112312	Soil	14-APR-2006 02:08	1.0	0.09962			3		

Stds used: 1=S2971 2=S3158 3=S2961 4=S2938 5=S2939 6=S2983 7=S2941 8=S2942 9=S2936 10=S2708 11=S2118 12=S2119 13=S2120 14=S2121 15=S2122 16=S2117 17=S2694 18=S2695 19=S2696 20=S2697 21=S2698 22=S3131 23=S3048

SEQUENCE SUMMARY FOR 187020 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176147877 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 12-APR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
061	102a061	X	ib			14-APR-2006 02:36	1.0					
062	102a062	SAMPLE	185948-004 S	112312	Soil	14-APR-2006 03:04	1.0	0.1000	1	3		
063	102a063	SAMPLE	185948-003 S	112312	Soil	14-APR-2006 03:31	1.0	0.1007	1	3		
064	102a064	SAMPLE	185948-002 S	112312	Soil	14-APR-2006 03:59	20.0	0.09952	1	3		
065	102a065	X	ib			14-APR-2006 04:26	1.0					
066	102a066	CCV	mo_500			14-APR-2006 04:53	1.0	1.0	6	3	1	
067	102a067	CCV	dsl_250			14-APR-2006 05:21	1.0	1.0		3	23	
068	102a068	X	mo_500			14-APR-2006 05:48	1.0	1.0	6	3	1	
069	102a069	X	ccv			14-APR-2006 06:16	1.0				23	
070	102a070	SAMPLE	185948-006 S	112312	Soil	14-APR-2006 06:43	20.0	0.1996	1	3		
071	102a071	SAMPLE	185948-007 S	112312	Soil	14-APR-2006 07:11	50.0	0.0994	1	3		
072	102a072	X	ib			14-APR-2006 07:38	1.0					

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Stds used: 1=S2971 2=S3158 3=S2961 4=S2938 5=S2939 6=S2983 7=S2941 8=S2942 9=S2936 10=S2708 11=S2118 12=S2119 13=S2120 14=S2121 15=S2122 16=S2117 17=S2694 18=S2695 19=S2696 20=S2697 21=S2698 22=S3131 23=S3048

SEQUENCE SUMMARY FOR 187020 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166158996 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 20-APR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	110b001	X	primer			20-APR-2006 09:56	1.0							
002	110b002	X	ib			20-APR-2006 10:24	1.0							
003	110b003	CCV	dsl_500			20-APR-2006 10:53	1.0			3			1	
004	110b004	CCV	mo_500			20-APR-2006 11:21	1.0	2		3			2	
005	110b005	X	ib			20-APR-2006 11:55	1.0							
006	110b006	ICAL	mo_50			20-APR-2006 13:06	1.0						3	
007	110b007	ICAL	mo_250			20-APR-2006 13:34	1.0						4	
008	110b008	ICAL	mo_500			20-APR-2006 14:02	1.0						5	
009	110b009	ICAL	mo_1000			20-APR-2006 14:30	1.0						6	
010	110b010	ICAL	mo_2500			20-APR-2006 14:58	1.0						7	
011	110b011	ICAL	mo_5000			20-APR-2006 15:26	1.0						8	
012	110b012	X	ib			20-APR-2006 15:54	1.0							
013	110b013	ICAL	hex_5			20-APR-2006 16:22	1.0						9	
014	110b014	ICAL	hex_10			20-APR-2006 16:50	1.0						10	
015	110b015	ICAL	hex_25			20-APR-2006 17:19	1.0						11	83
016	110b016	ICAL	hex_50			20-APR-2006 17:47	1.0						12	
017	110b017	ICAL	hex_75			20-APR-2006 18:15	1.0						13	
018	110b018	X	ib			20-APR-2006 18:43	1.0							
019	110b019	CCV	dsl_500			20-APR-2006 19:11	1.0						1	
020	110b020	CCV	mo_500			20-APR-2006 19:39	1.0						2	

Stds used: 1=S3131 2=S3188 3=S2118 4=S2119 5=S2120 6=S2121 7=S2122 8=S2117 9=S2694 10=S2695 11=S2696 12=S2697 13=S2698

SEQUENCE SUMMARY FOR 187020 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176189135 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 11-MAY-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	131a001	X	Primer			11-MAY-2006 08:15	1.0						
002	131a002	X	ib			11-MAY-2006 08:42	1.0						
003	131a003	X	mo_500			11-MAY-2006 09:09	1.0	1.0	3		3	1	
004	131a004	X	dsl_500			11-MAY-2006 09:37	1.0	1.0			3	2	
005	131a005	X	mo_500			11-MAY-2006 10:38	1.0	1.0			3	3	
006	131a006	X	mo_500			11-MAY-2006 17:17	1.0	1.0	3		3	3	
007	131a007	CCV	dsl_1000			11-MAY-2006 17:44	1.0	1.0			3	4	
008	131a008	CCV	mo_500			11-MAY-2006 18:20	1.0	1.0	3		3	3	
009	131a009	X	ib			11-MAY-2006 19:00	1.0						
010	131a010	ICAL	mo_50			11-MAY-2006 19:27	1.0	1.0				5	
011	131a011	ICAL	mo_250			11-MAY-2006 19:55	1.0	1.0				6	
012	131a012	ICAL	mo_500			11-MAY-2006 20:22	1.0	1.0				7	
013	131a013	ICAL	mo_1000			11-MAY-2006 20:49	1.0	1.0				8	
014	131a014	ICAL	mo_2500			11-MAY-2006 21:16	1.0	1.0				9	
015	131a015	ICAL	mo_5000			11-MAY-2006 21:43	1.0	1.0				10	84
016	131a016	X	ib			11-MAY-2006 22:11	1.0						
017	131a017	CCV	mo_500			11-MAY-2006 22:38	1.0	1.0			3	3	
018	131a018	CCV	dsl_250			11-MAY-2006 23:05	1.0	1.0			3	11	
019	131a019	SAMPLE	186609-002 S	113222	Water	11-MAY-2006 23:44	1.0	0.005			3		
020	131a020	SAMPLE	186575-001 S	113251	Soil	12-MAY-2006 00:12	1.0	0.1006			3		
021	131a021	SAMPLE	186575-002 S	113251	Soil	12-MAY-2006 00:39	1.0	0.1003			3		
022	131a022	SAMPLE	186575-003 S	113251	Soil	12-MAY-2006 01:06	1.0	0.1007		1	3		
023	131a023	SAMPLE	186575-004 S	113251	Soil	12-MAY-2006 01:34	1.0	0.09992			3		
024	131a024	SAMPLE	186575-005 S	113251	Soil	12-MAY-2006 02:01	1.0	0.101			3		
025	131a025	SAMPLE	186575-006 S	113251	Soil	12-MAY-2006 02:28	1.0	0.1000			3		
026	131a026	SAMPLE	186649-001	113307	Soil	12-MAY-2006 02:56	1.0	0.1005			3		
027	131a027	SAMPLE	186649-002	113307	Soil	12-MAY-2006 03:23	1.0	0.1007			3		
028	131a028	X	ib			12-MAY-2006 03:50	1.0						
029	131a029	CCV	mo_500			12-MAY-2006 04:18	1.0	1.0			3	3	
030	131a030	CCV	dsl_500			12-MAY-2006 04:45	1.0	1.0			3	2	

Stds used: 1=S3309 2=S3367 3=S3404 4=S3368 5=S3326 6=S3327 7=S3328 8=S3329 9=S3330 10=S3325 11=S3366

SEQUENCE SUMMARY FOR 187020 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 146209271 Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Begun: 25-MAY-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	145_001	X	primer			25-MAY-2006 07:51	1.0					
002	145_002	X	ib			25-MAY-2006 08:18	1.0					
003	145_003	CCV	dsl_500			25-MAY-2006 08:47	1.0	1.0		3	1	
004	145_004	CCV	mo_500			25-MAY-2006 09:15	1.0	1.0		3	2	
005	145_005	SAMPLE	186997-006	113771	Soil	25-MAY-2006 15:02	1.0	0.1001		3		
006	145_006	SAMPLE	186997-007	113771	Soil	25-MAY-2006 15:30	1.0	0.1002		3		
007	145_007	SAMPLE	186997-008	113771	Soil	25-MAY-2006 15:58	1.0	0.1002		3		
008	145_008	SAMPLE	186997-009	113771	Soil	25-MAY-2006 16:26	1.0	0.1003		3		
009	145_009	SAMPLE	186997-010	113771	Soil	25-MAY-2006 16:54	1.0	0.1003		3		
010	145_010	SAMPLE	186997-011	113771	Soil	25-MAY-2006 17:23	1.0	0.1005		3		
011	145_011	SAMPLE	186997-012	113771	Soil	25-MAY-2006 17:51	1.0	0.1002		3		
012	145_012	X	ib			25-MAY-2006 18:19	1.0					
013	145_013	CCV	dsl_250			25-MAY-2006 18:47	1.0	1.0	1	3	3	
014	145_014	CCV	mo_500			25-MAY-2006 19:15	1.0	1.0		3	2	
015	145_015	X	dsl_250			25-MAY-2006 19:43	1.0	1.0	1	3	3	85
016	145_016	X	ccv			25-MAY-2006 20:12	1.0				2	
017	145_017	X	ib			25-MAY-2006 22:03	1.0					
018	145_018	ICAL	dsl_10			25-MAY-2006 22:31	1.0	1.0			4	
019	145_019	ICAL	dsl_100			25-MAY-2006 23:00	1.0	1.0			5	
020	145_020	ICAL	dsl_250			25-MAY-2006 23:28	1.0	1.0			6	
021	145_021	ICAL	dsl_500			25-MAY-2006 23:57	1.0	1.0			7	
022	145_022	ICAL	dsl_1000			26-MAY-2006 00:25	1.0	1.0			8	
023	145_023	ICAL	dsl_2500			26-MAY-2006 00:53	1.0	1.0			9	
024	145_024	ICAL	dsl_5000			26-MAY-2006 01:22	1.0	1.0			10	
025	145_025	X	ib			26-MAY-2006 01:50	1.0					
026	145_026	ICV	dsl_500			26-MAY-2006 02:18	1.0	1.0		3	11	
027	145_027	X	ib			26-MAY-2006 02:47	1.0					

Stds used: 1=S3367 2=S3404 3=S3366 4=S3433 5=S3434 6=S3435 7=S3436 8=S3437 9=S3438 10=S3432 11=S2708

SEQUENCE SUMMARY FOR 187020 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166219336 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 01-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	152b001	X	primer			01-JUN-2006 07:36	1.0						
002	152b002	X	ib			01-JUN-2006 08:03	1.0						
003	152b003	CCV	dsl_500			01-JUN-2006 08:31	1.0		3			1	
004	152b004	CCV	mo_500			01-JUN-2006 08:59	1.0		3			2	
006	152b006	X	ib			01-JUN-2006 14:06	1.0						
007	152b007	ICAL	mo_50			01-JUN-2006 14:33	1.0					3	
008	152b008	X	ib			01-JUN-2006 16:52	1.0						
009	152b009	X	ib			01-JUN-2006 17:20	1.0						
010	152b010	ICAL	mo_50			01-JUN-2006 17:48	1.0					3	
011	152b011	ICAL	mo_250			01-JUN-2006 18:15	1.0					4	
012	152b012	ICAL	mo_500			01-JUN-2006 18:43	1.0					5	
013	152b013	ICAL	mo_1000			01-JUN-2006 19:10	1.0					6	
014	152b014	ICAL	mo_2500			01-JUN-2006 19:38	1.0					7	
015	152b015	ICAL	mo_5000			01-JUN-2006 20:05	1.0					8	
016	152b016	X	ib			01-JUN-2006 20:33	1.0						

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Stds used: 1=S3367 2=S3404 3=S3326 4=S3327 5=S3328 6=S3329 7=S3330 8=S3325

SEQUENCE SUMMARY FOR 187020 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 146220820 Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Begun: 02-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	153_001	X	primer			02-JUN-2006 08:20	1.0							
002	153_002	X	ib			02-JUN-2006 08:48	1.0							
003	153_003	CCV	DSL_500			02-JUN-2006 09:17	1.0	2		3			1	
004	153_004	CCV	MO_500			02-JUN-2006 09:45	1.0	3		3			2	
005	153_005	X	IB			02-JUN-2006 12:12	1.0							
006	153_006	ICAL	MO_50			02-JUN-2006 12:40	1.0						3	
007	153_007	ICAL	MO_250			02-JUN-2006 13:09	1.0						4	
008	153_008	ICAL	MO_500			02-JUN-2006 13:37	1.0						5	
009	153_009	ICAL	MO_1000			02-JUN-2006 14:05	1.0						6	
010	153_010	ICAL	MO_2500			02-JUN-2006 14:33	1.0						7	
011	153_011	ICAL	MO_5000			02-JUN-2006 15:01	1.0						8	
012	153_012	X	IB			02-JUN-2006 15:30	1.0							
013	153_013	ICAL	HEX_5			02-JUN-2006 15:58	1.0						9	
014	153_014	ICAL	HEX_10			02-JUN-2006 16:26	1.0						10	
015	153_015	ICAL	HEX_25			02-JUN-2006 16:54	1.0						11	
016	153_016	ICAL	HEX_50			02-JUN-2006 17:23	1.0						12	
017	153_017	ICAL	HEX_75			02-JUN-2006 17:51	1.0						13	
018	153_018	X	IB			02-JUN-2006 18:19	1.0							

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Stds used: 1=S3367 2=S3404 3=S3326 4=S3327 5=S3328 6=S3329 7=S3330 8=S3325 9=S2694 10=S2695 11=S2696 12=S2697 13=S2698

SEQUENCE SUMMARY FOR 187020 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 146226556 Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Begun: 06-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	157_001	X	PRIMER			06-JUN-2006 07:56	1.0					
002	157_002	X	IB			06-JUN-2006 08:24	1.0					
003	157_003	X	DSL_500			06-JUN-2006 08:52	1.0	1.0	2	3	1	
004	157_004	X	MO_500			06-JUN-2006 09:20	1.0	1.0		3	2	
005	157_005	X	IB			06-JUN-2006 11:39	1.0					
006	157_006	CCV	DSL_1000			06-JUN-2006 12:07	1.0	1.0	2	3	3	
007	157_007	CCV	MO_500			06-JUN-2006 12:36	1.0	1.0	6	3	2	
008	157_008	CCV	MO_500			06-JUN-2006 14:59	1.0	1.0	6	3	2	
009	157_009	LCS	QC342634 S	114090	Water	06-JUN-2006 15:28	1.0	0.005		3		
010	157_010	MS	QC342635 S	114090	Water	06-JUN-2006 15:56	1.0	0.005		3		
011	157_011	MSD	QC342636 S	114090	Water	06-JUN-2006 16:24	1.0	0.005		3		
012	157_012	SAMPLE	187020-017 S	114090	Water	06-JUN-2006 16:52	1.0	0.005		3		
013	157_013	SAMPLE	187050-001	113987	Water	06-JUN-2006 17:20	1.0	0.005		3		
014	157_014	SAMPLE	187050-002	113987	Water	06-JUN-2006 17:48	1.0	0.005		3		
015	157_015	SAMPLE	187050-003	113987	Water	06-JUN-2006 18:17	1.0	0.005		3		
016	157_016	SAMPLE	187050-004	113987	Water	06-JUN-2006 18:45	1.0	0.005		3		
017	157_017	X	IB			06-JUN-2006 19:13	1.0					
018	157_018	CCV	DSL_250			06-JUN-2006 22:38	1.0	1.0	2	3	4	
019	157_019	CCV	MO_500			06-JUN-2006 23:06	1.0	1.0	6	3	2	
020	157_020	X	CCV			06-JUN-2006 23:35	1.0				4	
021	157_021	X	CCV			07-JUN-2006 00:03	1.0				2	

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Stds used: 1=S3367 2=S3404 3=S3368 4=S3366

SEQUENCE SUMMARY FOR 187020 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166226541 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 06-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	157b001	X	PRIMER			06-JUN-2006 07:41	1.0					
002	157b002	X	IB			06-JUN-2006 08:08	1.0					
003	157b003	CCV	DSL_500			06-JUN-2006 08:36	1.0	1.0		3	1	
004	157b004	CCV	MO_500			06-JUN-2006 09:03	1.0	1.0		3	2	
005	157b005	CCV	JP5_250			06-JUN-2006 09:31	1.0	1.0		3	3	
006	157b006	CCV	JP8_250			06-JUN-2006 09:58	1.0	1.0		3	4	
007	157b007	BLANK	QC342753	114117	Soil	06-JUN-2006 10:48	1.0	0.1006	6	3		
008	157b008	SAMPLE	187048-001	114117	Soil	06-JUN-2006 11:16	1.0	0.1002		3		
009	157b009	SAMPLE	187048-002	114117	Soil	06-JUN-2006 11:43	1.0	0.1001		3		
010	157b010	SAMPLE	187048-004	114117	Soil	06-JUN-2006 12:11	1.0	0.1004		3		
011	157b011	SAMPLE	187048-006	114117	Soil	06-JUN-2006 12:39	1.0	0.1006		3		
012	157b012	SAMPLE	187048-008	114117	Soil	06-JUN-2006 13:06	1.0	0.1006		3		
013	157b013	SAMPLE	187048-009	114117	Soil	06-JUN-2006 13:34	1.0	0.1000		3		
014	157b014	SAMPLE	187048-007	114117	Soil	06-JUN-2006 14:01	2.0	0.1000		3		
015	157b015	MSS	187048-003	114117	Soil	06-JUN-2006 14:29	2.0	0.1004	6	3		89
016	157b016	SAMPLE	187048-005	114117	Soil	06-JUN-2006 14:56	10.0	0.1006		3		
017	157b017	X	IB			06-JUN-2006 15:24	1.0					
018	157b018	CCV	DSL_1000			06-JUN-2006 15:52	1.0	1.0		3	5	
019	157b019	CCV	MO_500			06-JUN-2006 16:20	1.0	1.0		3	6	
020	157b020	CCV	JP5_250			06-JUN-2006 16:47	1.0	1.0		3	3	
021	157b021	CCV	JP8_250			06-JUN-2006 17:15	1.0	1.0		3	4	
022	157b022	X	QC342633 S	114090	Water	06-JUN-2006 17:54	1.0	0.005	6	3		
023	157b023	SAMPLE	187040-001	114090	Water	06-JUN-2006 18:21	1.0	0.005		3		
024	157b024	SAMPLE	187040-002	114090	Water	06-JUN-2006 18:49	1.0	0.005		3		
025	157b025	SAMPLE	187040-003	114090	Water	06-JUN-2006 19:16	1.0	0.005		3		
026	157b026	SAMPLE	187046-001 S	113987	Water	06-JUN-2006 19:44	1.0	0.005		3		
027	157b027	SAMPLE	187046-002 S	113987	Water	06-JUN-2006 20:11	1.0	0.005		3		
028	157b028	SAMPLE	187046-003 S	113987	Water	06-JUN-2006 20:39	1.0	0.005		3		
029	157b029	SAMPLE	187046-004 S	113987	Water	06-JUN-2006 21:07	1.0	0.005		3		
030	157b030	SAMPLE	187046-005 S	113987	Water	06-JUN-2006 21:35	1.0	0.005		3		
031	157b031	SAMPLE	187046-006 S	113987	Water	06-JUN-2006 22:02	1.0	0.005	2	3		15:BUNKC:=49180.4

Stds used: 1=S3367 2=S3404 3=S3333 4=S3510 5=S3368 6=S3639 7=S3366

SEQUENCE SUMMARY FOR 187020 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166226541 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 06-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	157b032	X	IB			06-JUN-2006 22:29	1.0					
033	157b033	CCV	DSL_250			06-JUN-2006 22:57	1.0	1.0		3	7	
034	157b034	CCV	MO_500			06-JUN-2006 23:24	1.0	1.0		3	6	
035	157b035	CCV	JP5_250			06-JUN-2006 23:52	1.0	1.0		3	3	
036	157b036	CCV	JP8_250			07-JUN-2006 00:20	1.0	1.0		3	4	
037	157b037	X	CCV			07-JUN-2006 00:47	1.0				7	
038	157b038	X	CCV			07-JUN-2006 01:15	1.0				6	
039	157b039	SAMPLE	187077-002	114117	Soil	07-JUN-2006 01:42	3.0	0.1002		3		2:BUNKC:=7279.20
040	157b040	SAMPLE	187077-004	114117	Soil	07-JUN-2006 02:10	2.0	0.1006		3		5:BUNKC:=17526.2
041	157b041	SAMPLE	187077-007	114117	Soil	07-JUN-2006 02:37	5.0	0.1003		3		3:BUNKC:=7880.53
042	157b042	X	IB			07-JUN-2006 03:05	1.0					
043	157b043	SAMPLE	187020-001 S	114090	Water	07-JUN-2006 03:32	1.0	0.005		3		
044	157b044	SAMPLE	187020-002 S	114090	Water	07-JUN-2006 04:00	1.0	0.005		3		
045	157b045	SAMPLE	187020-003 S	114090	Water	07-JUN-2006 04:28	1.0	0.005		3		
046	157b046	SAMPLE	187020-004 S	114090	Water	07-JUN-2006 04:55	1.0	0.005		3		90
047	157b047	SAMPLE	187020-005 S	114090	Water	07-JUN-2006 05:23	1.0	0.005		3		
048	157b048	SAMPLE	187020-006 S	114090	Water	07-JUN-2006 05:50	1.0	0.005		3		
049	157b049	SAMPLE	187020-007 S	114090	Water	07-JUN-2006 06:18	1.0	0.005		3		
050	157b050	X	IB			07-JUN-2006 06:45	1.0					
051	157b051	CCV	DSL_500			07-JUN-2006 07:12	1.0	1.0		3	1	
052	157b052	CCV	MO_500			07-JUN-2006 07:40	1.0	1.0		3	6	
053	157b053	CCV	JP5_250			07-JUN-2006 08:07	1.0	1.0		3	3	
054	157b054	CCV	JP8_250			07-JUN-2006 08:35	1.0	1.0		3	4	
055	157b055	X	CCV			07-JUN-2006 09:02	1.0				1	
056	157b056	X	CCV			07-JUN-2006 09:30	1.0				6	
057	157b057	X	QC342633	114090	Water	07-JUN-2006 09:58	1.0	0.005	6	3		
058	157b058	SAMPLE	187020-015 S	114090	Water	07-JUN-2006 10:25	1.0	0.005		3		
059	157b059	SAMPLE	187020-014 S	114090	Water	07-JUN-2006 10:53	1.0	0.005		3		
060	157b060	SAMPLE	187046-006 S	113987	Water	07-JUN-2006 11:20	10.0	0.005		3		
061	157b061	X	IB			07-JUN-2006 11:47	1.0					
062	157b062	BLANK	QC342633 S	114090	Water	07-JUN-2006 12:15	1.0	0.005		3		

Stds used: 1=S3367 2=S3404 3=S3333 4=S3510 5=S3368 6=S3639 7=S3366

SEQUENCE SUMMARY FOR 187020 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166226541 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 06-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
063	157b063	CCV	DSL_1000			07-JUN-2006 13:08	1.0	1.0		3	5	
064	157b064	CCV	MO_500			07-JUN-2006 13:36	1.0	1.0		3	6	
065	157b065	CCV	JP5_250			07-JUN-2006 14:03	1.0	1.0		3	3	
066	157b066	CCV	JP8_250			07-JUN-2006 14:31	1.0	1.0		3	4	

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Stds used: 1=S3367 2=S3404 3=S3333 4=S3510 5=S3368 6=S3639 7=S3366

SEQUENCE SUMMARY FOR 187020 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176227147 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 06-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	157a001	X	PRIMER			06-JUN-2006 17:47	1.0					
002	157a002	X	IB			06-JUN-2006 18:14	1.0					
003	157a003	CCV	DSL_500			06-JUN-2006 18:41	1.0	1.0		3	1	
004	157a004	CCV	MO_500			06-JUN-2006 19:08	1.0	1.0		3	2	
005	157a005	BLANK	QC342633 S	114090	Water	06-JUN-2006 20:07	1.0	0.005	1	3		
006	157a006	SAMPLE	187020-008 S	114090	Water	06-JUN-2006 20:34	1.0	0.005		3		
007	157a007	SAMPLE	187020-009 S	114090	Water	06-JUN-2006 21:02	1.0	0.005		3		
008	157a008	SAMPLE	187020-010 S	114090	Water	06-JUN-2006 21:29	1.0	0.005		3		
009	157a009	SAMPLE	187020-012 S	114090	Water	06-JUN-2006 21:56	1.0	0.005		3		
010	157a010	SAMPLE	187020-014 S	114090	Water	06-JUN-2006 22:24	1.0	0.005	1	3		
011	157a011	SAMPLE	187020-015 S	114090	Water	06-JUN-2006 22:51	1.0	0.005	1	3		
012	157a012	SAMPLE	187020-018 S	114090	Water	06-JUN-2006 23:19	1.0	0.005		3		
013	157a013	SAMPLE	187020-020 S	114090	Water	06-JUN-2006 23:46	1.0	0.005		3		
014	157a014	MSS	187061-013 S	114090	Water	07-JUN-2006 00:13	1.0	0.005	7	3		
015	157a015	X	IB			07-JUN-2006 00:40	1.0					
016	157a016	CCV	DSL_1000			07-JUN-2006 01:07	1.0	1.0		3	3	
017	157a017	CCV	MO_500			07-JUN-2006 01:34	1.0	1.0	6	3	4	
018	157a018	X	CCV			07-JUN-2006 02:02	1.0				3	
019	157a019	X	MO_500			07-JUN-2006 02:29	1.0	1.0	6	3	4	
020	157a020	BLANK	QC342637 S	114091	Water	07-JUN-2006 02:56	1.0	0.005	7	3		
021	157a021	LCS	QC342638 S	114091	Water	07-JUN-2006 03:24	1.0	0.005		3		
022	157a022	MSS	187031-002 S	114091	Water	07-JUN-2006 03:52	1.0	0.005	7	3		
023	157a023	MS	QC342639 S	114091	Water	07-JUN-2006 04:19	1.0	0.005		3		
024	157a024	MSD	QC342640 S	114091	Water	07-JUN-2006 04:46	1.0	0.005		3		
025	157a025	X	IB			07-JUN-2006 05:14	1.0					
026	157a026	SAMPLE	187031-001 S	114091	Water	07-JUN-2006 05:41	1.0	0.005		3		
027	157a027	SAMPLE	187031-003 S	114091	Water	07-JUN-2006 06:08	1.0	0.005		3		
028	157a028	SAMPLE	187031-004 S	114091	Water	07-JUN-2006 06:35	1.0	0.005		3		
029	157a029	SAMPLE	187031-005 S	114091	Water	07-JUN-2006 07:02	1.0	0.005		3		
030	157a030	SAMPLE	187061-001 S	114091	Water	07-JUN-2006 07:30	1.0	0.005		3		
031	157a031	CCV	DSL_250			07-JUN-2006 07:57	1.0	1.0		3	5	

Stds used: 1=S3367 2=S3404 3=S3368 4=S3639 5=S3366

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SEQUENCE SUMMARY FOR 187020 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176227147 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 06-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	157a032	CCV	MO_500			07-JUN-2006 08:24	1.0	1.0		3	4	
033	157a033	X	CCV			07-JUN-2006 08:52	1.0				3	
034	157a034	X	CCV			07-JUN-2006 09:19	1.0				5	
035	157a035	SAMPLE	187061-002 S	114091	Water	07-JUN-2006 09:47	1.0	0.005		3		
036	157a036	SAMPLE	187061-003 S	114091	Water	07-JUN-2006 10:14	1.0	0.005		3		
037	157a037	SAMPLE	187061-004 S	114091	Water	07-JUN-2006 10:41	1.0	0.005		3		
038	157a038	SAMPLE	187061-005 S	114091	Water	07-JUN-2006 11:08	1.0	0.005		3		
039	157a039	SAMPLE	187061-006 S	114091	Water	07-JUN-2006 11:36	1.0	0.005		3		
040	157a040	SAMPLE	187061-007 S	114091	Water	07-JUN-2006 12:03	1.0	0.005		3		
041	157a041	SAMPLE	187061-008 S	114091	Water	07-JUN-2006 12:31	1.0	0.005		3		
042	157a042	SAMPLE	187061-009 S	114091	Water	07-JUN-2006 12:58	1.0	0.005		3		
043	157a043	SAMPLE	187061-010 S	114091	Water	07-JUN-2006 13:26	1.0	0.005		3		
044	157a044	SAMPLE	187061-011 S	114091	Water	07-JUN-2006 13:53	1.0	0.005		3		
045	157a045	CCV	DSL_500			07-JUN-2006 14:20	1.0	1.0		3	1	
046	157a046	CCV	MO_500			07-JUN-2006 14:48	1.0	1.0		3	4	

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Stds used: 1=S3367 2=S3404 3=S3368 4=S3639 5=S3366

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187020 TEH Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	HXCS	
187020-001	GC15B	06/07/06 03:32	1.0	+	+	
187020-002	GC15B	06/07/06 04:00	1.0	+	+	
187020-003	GC15B	06/07/06 04:28	1.0	+	+	
187020-004	GC15B	06/07/06 04:55	1.0	+	+	
187020-005	GC15B	06/07/06 05:23	1.0	+	+	
187020-006	GC15B	06/07/06 05:50	1.0	+	+	
187020-007	GC15B	06/07/06 06:18	1.0	+	+	
187020-008	GC17A	06/06/06 20:34	1.0	+	+	
187020-009	GC17A	06/06/06 21:02	1.0	+	+	
187020-010	GC17A	06/06/06 21:29	1.0	+	+	
187020-012	GC17A	06/06/06 21:56	1.0	+	+	
187020-014	GC17A	06/06/06 22:24	1.0			
187020-014	GC15B	06/07/06 10:53	1.0	+	+	
187020-015	GC17A	06/06/06 22:51	1.0			
187020-015	GC15B	06/07/06 10:25	1.0	+	+	
187020-017	GC13B	06/06/06 16:52	1.0	+	+	
187020-018	GC17A	06/06/06 23:19	1.0	+	+	
187020-020	GC17A	06/06/06 23:46	1.0	+	+	
QC342633	GC17A	06/06/06 20:07	1.0			
QC342633	GC15B	06/07/06 12:15	1.0	+	+	
QC342634	GC13B	06/06/06 15:28	1.0	+	+	
QC342635	GC13B	06/06/06 15:56	1.0	+	+	
QC342636	GC13B	06/06/06 16:24	1.0	+	+	

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187020 TEHM Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	MO:2	HXCS	
187020-001	GC15B	06/07/06 03:32	1.0	+	+	+	
187020-002	GC15B	06/07/06 04:00	1.0	+	+	+	
187020-003	GC15B	06/07/06 04:28	1.0	+	+	+	
187020-004	GC15B	06/07/06 04:55	1.0	+	+	+	
187020-005	GC15B	06/07/06 05:23	1.0	+	+	+	
187020-006	GC15B	06/07/06 05:50	1.0	+	+	+	
187020-007	GC15B	06/07/06 06:18	1.0	+	+	+	
187020-008	GC17A	06/06/06 20:34	1.0	+	+	+	
187020-009	GC17A	06/06/06 21:02	1.0	+	+	+	
187020-010	GC17A	06/06/06 21:29	1.0	+	+	+	
187020-012	GC17A	06/06/06 21:56	1.0	+	+	+	
187020-014	GC17A	06/06/06 22:24	1.0				
187020-014	GC15B	06/07/06 10:53	1.0	+	+	+	
187020-015	GC17A	06/06/06 22:51	1.0				
187020-015	GC15B	06/07/06 10:25	1.0	+	+	+	
187020-017	GC13B	06/06/06 16:52	1.0	+		+	
187020-018	GC17A	06/06/06 23:19	1.0	+	+	+	
187020-020	GC17A	06/06/06 23:46	1.0	+	+	+	
QC342633	GC17A	06/06/06 20:07	1.0				
QC342633	GC15B	06/07/06 12:15	1.0	+	+	+	
QC342634	GC13B	06/06/06 15:28	1.0	+		+	
QC342635	GC13B	06/06/06 15:56	1.0	+		+	
QC342636	GC13B	06/06/06 16:24	1.0	+		+	

Curtis & Tompkins Laboratories **Sample Preparation Summary** **06-JUN-2006 13:20**

Batch Number : 114090
Date Extracted: 03-JUN-2006
Extracted by : Kevin Riley
Prep Method : 3520C

Analysis : TEH
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S3417C
Spike #2 ID : S3587C
Spike #3 ID :
SOP Version : TEH50LL_rv10

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
187020-001		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
187020-002		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
187020-003		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
187020-004		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
187020-005		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
187020-006		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
187020-007		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
187020-008		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
187020-009		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
187020-010		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
187020-012		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
187020-014		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
187020-015		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
187020-017		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	8	.5	0		TEH	3630	
187020-018		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
187020-020		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	
187040-001		Tetra Tech EC, INC	Water	500	mL	2.5	0.005000	1	8	.5	0		TEH		
187040-002		Tetra Tech EC, INC	Water	500	mL	2.5	0.005000	1	8	.5	0		TEH		
187040-003		Tetra Tech EC, INC	Water	500	mL	2.5	0.005000	1	8	.5	0		TEH		
187061-013		Acton Mickelson Environmental	Water	500	mL	2.5	0.005000	1	8	.5	0		TEHM	3630	mss
QC342633	BLANK		Water	500	mL	2.5	0.005000	1		.5	0		TEHM	3630	
QC342634	LCS		Water	500	mL	2.5	0.005000	1		.5	.5		TEHM	3630	
QC342635	MS	of 187061-013	Water	500	mL	2.5	0.005000	1	8	.5	.5		TEHM	3630	
QC342636	MSD	of 187061-013	Water	500	mL	2.5	0.005000	1	8	.5	.5		TEHM	3630	

Prep Chemist: K Rey Reviewed By: [illegible] Date: 6/6/06

Relinquished By: [illegible] Received By: [illegible] Date: 6/6/06

Curtis & Tompkins, Ltd

TEH WATER PREP LOG

BK2279

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LIMS Batch No: 14090
LIMS Analysis: TEH/M
Extracted by: KR
Date Extracted: 3-JUN-06

Extraction Method:
☐ mod. EPA 3510 sep. funnel
☑ mod. EPA 3520 cont. L/L
☐ _____

Cleanup Method (if needed):
☑ EPA 3630 Silica Gel
☐ Other _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
187020-001:G	500	8	2.5	X	
2					
3					
4					
5					
6					
7					
8					
9:F					
10:F					
12:G					
14:D					
15:G					
17:J					
18:D					
20:D					
187040-001:H					
2					~2 mL lost before conc.
3					
187061-013:4				X	MSS
MB QC342633		NA			
LCS 34		NA			
MS 35 AK		8			
MSD 36 AK		8			

BD 6/6

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.5 mL of TEH_SURR was added to all samples	53417 C	6/3/06 KR
0.5 mL of TEH_SP was added to all spikes	53587 C	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	FS054522	
☑ Samples were continually extracted about 450 mL of CH_2Cl_2	EM45294	
Extraction Start Time:	1335	
Extraction End Time:	0935	SPL 6/4/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	REW 6/5/06
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM45091549	
Concentrated to volumes as noted above	✓	

K Rey 3 JUN 06
Extraction Chemist Date

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Contined from Page ~
Continued on Page ~

6/6/06
Reviewed by Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: SD
Cleanup Date: 6/6/06

Benchbook # **BK 2325**
Page 27

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
187093-001	114039	0.5	0.5	re-sg
-006				
187020-001	114090	1.0	1.0	
-002				
-003				
-004				
-005				
-006				
-007				
-008				
-009				
-010				
-012				
-014				
-015				
-017				
-018				
-020				
MB QC 342633				
LCS 34				
MS 35				
MSD 36				
187061-013				MSS

SD 6/6/06

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ____ g columns	N/A	SD 6/6/06
☑ Extracts were cleaned up using 1.0 g cartridges	SP7136	
Extracts were eluted with 4.0 mL CH_2Cl_2	EM 45294	
Concentrated to volumes as noted above	✓	

6/6/06
Extraction Chemist / Date

Continued from page #
Continued on page #

6/6/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water
As of 06/19/06

Analyte	Units	GC11A	GC13B B	GC15B	GC17A
JP-5 C10-C16	ug/L	17	16	7.9	5.4
Jet Fuel A C10-C16	ug/L	14	30	24	33
Diesel C12-C36	ug/L	13	17		
Diesel C12-C32	ug/L	22	14	25	23
Diesel C12-C28	ug/L		31		
Diesel C12-C24	ug/L	20	13	20	33
Diesel C12-C22	ug/L	19	17	20	25
Diesel C10-C28	ug/L	18	11	22	37
Diesel C10-C24	ug/L	21	15	18	33
Diesel C10-C22	ug/L	21	18	19	27
Diesel C10-C20	ug/L		16	13	19
Motor Oil C22-C36	ug/L	41	52	30	51
Motor Oil C22-C32	ug/L	36	51	21	50
Motor Oil C28-C36	ug/L	42	55	33	76
Motor Oil C20-C36	ug/L	40	50	29	53
Motor Oil C24-C36	ug/L	42	55	33	76
Hexacosane	ug/L	4.5	3.4	4.2	3.1

PESTICIDES

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	BB1PZ101	Batch#:	113870
Lab ID:	187020-014	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	ug/L	Prepared:	05/26/06
Diln Fac:	5.000	Analyzed:	05/30/06

Analyte	Result	RL
alpha-BHC	ND	0.2
beta-BHC	ND	0.2
gamma-BHC	ND	0.2
delta-BHC	ND #	0.2
Heptachlor	ND	0.2
Aldrin	ND	0.2
Heptachlor epoxide	ND	0.2
Endosulfan I	ND	0.2
Dieldrin	ND	0.5
4,4'-DDE	ND	0.5
Endrin	ND	0.5
Endosulfan II	ND	0.5
Endosulfan sulfate	ND	0.5
4,4'-DDD	ND	0.5
4,4'-DDT	ND	0.5
alpha-Chlordane	ND	0.2
gamma-Chlordane	ND	0.2
Methoxychlor	ND	2.4
Endrin ketone	ND	0.5
Toxaphene	ND	4.9

Surrogate	%REC	Limits
TCMX	79	65-135
Decachlorobiphenyl	97	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	BB1PZ100	Batch#:	113870
Lab ID:	187020-015	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	ug/L	Prepared:	05/26/06
Diln Fac:	1.000	Analyzed:	05/30/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND #	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	80	65-135
Decachlorobiphenyl	93	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	LF6GW103	Batch#:	113870
Lab ID:	187020-017	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	ug/L	Prepared:	05/26/06
Diln Fac:	1.000	Analyzed:	05/30/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND #	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.09
4,4'-DDE	ND	0.09
Endrin	ND	0.09
Endosulfan II	ND	0.09
Endosulfan sulfate	ND	0.09
4,4'-DDD	ND	0.09
4,4'-DDT	ND	0.09
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.09
Toxaphene	ND	0.9

Surrogate	%REC	Limits
TCMX	82	65-135
Decachlorobiphenyl	80	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC341755	Batch#:	113870
Matrix:	Water	Prepared:	05/26/06
Units:	ug/L	Analyzed:	05/30/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND #	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	66	65-135
Decachlorobiphenyl	106	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Matrix:	Water	Batch#:	113870
Units:	ug/L	Prepared:	05/26/06
Diln Fac:	1.000	Analyzed:	05/30/06

Type: BS Lab ID: QC341756

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	0.2000	0.1906	95	65-135
Heptachlor	0.2000	0.1826	91	65-135
Aldrin	0.2000	0.1858	93	65-135
Dieldrin	0.4000	0.3950	99	65-135
Endrin	0.4000	0.3895	97	65-135
4,4'-DDT	0.4000	0.4124	103	65-135

Surrogate	%REC	Limits
TCMX	71	65-135
Decachlorobiphenyl	97	65-135

Type: BSD Lab ID: QC341757

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	0.2000	0.1997	100	65-135	5	35
Heptachlor	0.2000	0.1945	97	65-135	6	35
Aldrin	0.2000	0.1943	97	65-135	4	35
Dieldrin	0.4000	0.4156	104	65-135	5	35
Endrin	0.4000	0.4163	104	65-135	7	35
4,4'-DDT	0.4000	0.4406	110	65-135	7	35

Surrogate	%REC	Limits
TCMX	71	65-135
Decachlorobiphenyl	100	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187020 PEST Water: EPA 8081A

Inst : GC23
Calnum : 806195056001
Units : pg

Name : gc23pest135
Date : 15-MAY-2006 22:44
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	135_015	806195056015	pest_1	15-MAY-2006 22:44	S2827
L2	135_016	806195056016	pest_2	15-MAY-2006 23:13	S3283
L3	135_017	806195056017	pest_3	15-MAY-2006 23:41	S2996
L4	135_018	806195056018	pest_4	16-MAY-2006 00:10	S2997
L5	135_019	806195056019	pest_5	16-MAY-2006 00:39	S3111
L6	135_020	806195056020	pest_6	16-MAY-2006 01:08	S2828
L7	135_021	806195056021	pest_7	16-MAY-2006 01:37	S2823

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
alpha-BHC	A	41010	39647	35893	35029	35814	41476	41106	AVRG		2.59E-5		38568	7	0.995	20	
gamma-BHC	A	37332	35688	31909	30880	31593	36440	36408	AVRG		2.91E-5		34321	8	0.995	20	
beta-BHC	A	15828	14501	12707	12090	12233	13095	13132	AVRG		7.48E-5		13369	10	0.995	20	
delta-BHC	A	35312	34359	31206	30395	31440	34863	35783	AVRG		3.00E-5		33337	7	0.995	20	
Heptachlor	A	29228	29334	27523	26750	27654	32089	31634	AVRG		3.43E-5		29173	7	0.995	20	
Aldrin	A	31722	30855	28151	27056	27992	32165	30942	AVRG		3.35E-5		29840	7	0.995	20	
Heptachlor epoxide	A	29777	28377	25604	24306	25043	28326	26743	AVRG		3.72E-5		26882	7	0.995	20	
gamma-Chlordane	A	29111	27452	25259	24251	25015	29179	28285	AVRG		3.71E-5		26936	8	0.995	20	
alpha-Chlordane	A	27524	26075	23939	23028	23587	27562	27039	AVRG		3.92E-5		25536	8	0.995	20	
4,4'-DDE	A	21974	20214	19670	20396	20677	25475		AVRG		4.67E-5		21401	10	0.995	20	
Endosulfan I	A	33757	33626	29657	27897	29953	31761	30690	AVRG		3.22E-5		31049	7	0.995	20	
Dieldrin	A	27145	26099	24796	25336	26307	27847		AVRG		3.81E-5		26255	4	0.995	20	
Endrin	A	22003	20253	20197	19473	19840	23258	19232	AVRG		4.85E-5		20608	7	0.995	20	
4,4'-DDD	A	21043	19475	18855	19180	19240	22815	21259	AVRG		4.93E-5		20267	7	0.995	20	
Endosulfan II	A	23597	21804	20673	20726	21217	23419	19587	AVRG		4.64E-5		21574	7	0.995	20	
4,4'-DDT	A	14501	14741	15473	16474	16302	20726	19242	AVRG		5.96E-5		16780	14	0.995	20	
Methoxychlor	A	6150.8	6078.2	6680.2	7754.5	7548.7	7672.5		AVRG		1.43E-4		6980.8	11	0.995	20	
Endosulfan sulfate	A	19448	18034	17059	17031	17026	18955	16897	AVRG		5.62E-5		17779	6	0.995	20	
Endrin ketone	A	24047	22167	20855	22121	22317	24107	20138	AVRG		4.49E-5		22250	7	0.995	20	
TCMX	A	23120	23357	22357	21979	22286	25325	25298	AVRG		4.28E-5		23389	6	0.995	20	
Decachlorobiphenyl	A	15643	14047	12328	14818	14189	14400	13119	AVRG		7.10E-5		14078	8	0.995	20	
alpha-BHC	B	19660	20230	19740	19214	18740	20144	22293	AVRG		5.00E-5		20003	6	0.995	20	
gamma-BHC	B	20099	18413	17797	17168	16806	17919	19873	AVRG		5.47E-5		18296	7	0.995	20	
beta-BHC	B	8587.5	7966.4	7603.7	7261.4	7039.2	7021.4	7223.7	AVRG		1.33E-4		7529.0	8	0.995	20	
delta-BHC	B	19826	16374	16317	15302	15261	16582	19050	AVRG		5.90E-5		16959	11	0.995	20	
Heptachlor	B	24215	16539	16270	15643	15378	16101	17793	AVRG		5.74E-5		17420	18	0.995	20	

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Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aldrin	B	19581	15936	15510	14582	14763	15383	17140	AVRG		6.20E-5		16128	11	0.995	20	
Heptachlor epoxide	B	19984	15097	14569	13345	13544	13787	14947	AVRG		6.65E-5		15039	15	0.995	20	
gamma-Chlordane	B	18815	15034	14414	13397	13784	14301	16130	AVRG		6.61E-5		15125	12	0.995	20	
alpha-Chlordane	B	17904	14301	13693	12721	13115	13525	15408	AVRG		6.95E-5		14381	12	0.995	20	
4,4'-DDE	B	16465	14087	13441	12994	13881	14703	14887	AVRG		6.97E-5		14351	8	0.995	20	
Endosulfan I	B	18190	13937	13262	12139	12366	12444	13685	AVRG		7.29E-5		13718	15	0.995	20	
Dieldrin	B	16818	14326	13933	13165	13937	14684	14385	AVRG		6.91E-5		14464	8	0.995	20	
Endrin	B	13821	11330	11494	10166	10556	11324	11648	AVRG		8.71E-5		11477	10	0.995	20	
4,4'-DDD	B	12360	10645	10530	9862.5	10476	11190	11932	AVRG		9.09E-5		10999	8	0.995	20	
Endosulfan II	B	15232	13138	12315	11491	12018	12473	12794	AVRG		7.82E-5		12780	9	0.995	20	
4,4'-DDT	B	12564	10979	9633.3	10551	11291	11206	11874	AVRG		8.96E-5		11157	8	0.995	20	
Methoxychlor	B	4864.6	4191.0	4257.9	4029.8	4222.6	3954.5		AVRG		2.35E-4		4253.4	8	0.995	20	
Endosulfan sulfate	B	12695	10945	10456	9656.6	10022	10171	10876	AVRG		9.36E-5		10689	9	0.995	20	
Endrin ketone	B	15424	13142	12714	11947	12612	12573	12733	AVRG		7.68E-5		13021	9	0.995	20	
TCMX	B	14044	13067	12577	12135	11968	12710	13812	AVRG		7.75E-5		12902	6	0.995	20	
Decachlorobiphenyl	B	12955	11090	10678	10247	10431	9908.3	11768	AVRG		9.08E-5		11011	10	0.995	20	
Average EPA 8081A	A												(n=22)	8		20	
Average EPA 8081A	B												(n=22)	10		20	

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Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 187020 PEST Water
EPA 8081A

Inst : GC23 Name : gc23pest135
Calnum : 806195056001 Cal Date: 15-MAY-2006

ICV 806195056023 (135_023 16-MAY-2006) stds: S3067

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
alpha-BHC	A	38568	35840	25.00	23.23	pg	-7	15	
gamma-BHC	A	34321	32025	25.00	23.33	pg	-7	15	
beta-BHC	A	13369	12171	25.00	22.76	pg	-9	15	
delta-BHC	A	33337	32308	25.00	24.23	pg	-3	15	
Heptachlor	A	29173	29371	25.00	25.17	pg	1	15	
Aldrin	A	29840	28658	25.00	24.01	pg	-4	15	
Heptachlor epoxide	A	26882	25186	25.00	23.42	pg	-6	15	
gamma-Chlordane	A	26936	24934	25.00	23.14	pg	-7	15	
alpha-Chlordane	A	25536	24090	25.00	23.58	pg	-6	15	
4,4'-DDE	A	21401	19304	25.00	22.55	pg	-10	15	
Endosulfan I	A	31049	26249	25.00	21.14	pg	-15	15	
Dieldrin	A	26255	24401	25.00	23.23	pg	-7	15	
Endrin	A	20608	20566	25.00	24.95	pg	0	15	
4,4'-DDD	A	20267	18609	25.00	22.96	pg	-8	15	
Endosulfan II	A	21574	20413	25.00	23.65	pg	-5	15	
4,4'-DDT	A	16780	15471	25.00	23.05	pg	-8	15	
Methoxychlor	A	6980.8	6487.9	25.00	23.23	pg	-7	15	
Endosulfan sulfate	A	17779	16910	25.00	23.78	pg	-5	15	
Endrin ketone	A	22250	20879	25.00	23.46	pg	-6	15	
alpha-BHC	B	20003	18806	25.00	23.50	pg	-6	15	
gamma-BHC	B	18296	16998	25.00	23.23	pg	-7	15	
beta-BHC	B	7529.0	6957.7	25.00	23.10	pg	-8	15	
delta-BHC	B	16959	16146	25.00	23.80	pg	-5	15	
Heptachlor	B	17420	16009	25.00	22.98	pg	-8	15	
Aldrin	B	16128	14878	25.00	23.06	pg	-8	15	
Heptachlor epoxide	B	15039	13591	25.00	22.59	pg	-10	15	
gamma-Chlordane	B	15125	13648	25.00	22.56	pg	-10	15	
alpha-Chlordane	B	14381	13303	25.00	23.13	pg	-7	15	
4,4'-DDE	B	14351	13739	25.00	23.93	pg	-4	15	
Endosulfan I	B	13718	12688	25.00	23.12	pg	-8	15	
Dieldrin	B	14464	13624	25.00	23.55	pg	-6	15	
Endrin	B	11477	11334	25.00	24.69	pg	-1	15	
4,4'-DDD	B	10999	10523	25.00	23.92	pg	-4	15	
Endosulfan II	B	12780	12238	25.00	23.94	pg	-4	15	
4,4'-DDT	B	11157	11404	25.00	25.55	pg	2	15	
Methoxychlor	B	4253.4	5037.7	25.00	29.61	pg	**18**	15	v+ ***
Endosulfan sulfate	B	10689	10535	25.00	24.64	pg	-1	15	
Endrin ketone	B	13021	13184	25.00	25.31	pg	1	15	
Average EPA 8081A	A	n=20					6	15	
Average EPA 8081A	B	n=20					6	15	

+=high bias v=ICV

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 187020 PEST Water
EPA 8081A

Inst : GC23 Run Name: pem IDF : 1.0
Seqnum : 806216555012 File : 150_012 Time : 30-MAY-2006 14:32

Standards: S3206

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	1827588	7	15	
4,4'-DDE	A	11090			
4,4'-DDD	A	123175			
Endrin	A	1033357	9	15	
Endrin aldehyde	A	35848			
Endrin ketone	A	67478			
4,4'-DDT	B	1128302	3	15	
4,4'-DDE	B	4630			
4,4'-DDD	B	34931			
Endrin	B	512216	6	15	
Endrin aldehyde	B	5558			
Endrin ketone	B	26480			

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 187020 PEST Water
EPA 8081A

Inst : GC23 Run Name: pem IDF : 1.0
Seqnum : 806216555026 File : 150_026 Time : 30-MAY-2006 21:41

Standards: S3206

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	1614783	9	15	
4,4'-DDE	A	4319			
4,4'-DDD	A	163064			
Endrin	A	984160	8	15	
Endrin aldehyde	A	21217			
Endrin ketone	A	59898			
4,4'-DDT	B	987580	4	15	
4,4'-DDE	B	2801			
4,4'-DDD	B	37034			
Endrin	B	493850	6	15	
Endrin aldehyde	B	4487			
Endrin ketone	B	24512			

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187020 PEST Water
EPA 8081A

Inst : GC23 Run Name: pest_3 IDF : 1.0
Seqnum : 806216555013 File : 150_013 Time : 30-MAY-2006 15:01
Cal : 806195056001 Caldate : 15-MAY-2006
Standards: S2996

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	38568	34169	10.00	8.859	pg	-11	15	
gamma-BHC	A	34321	30034	10.00	8.751	pg	-12	15	
beta-BHC	A	13369	11607	10.00	8.682	pg	-13	15	
delta-BHC	A	33337	28819	10.00	8.645	pg	-14	15	
Heptachlor	A	29173	26954	10.00	9.239	pg	-8	15	
Aldrin	A	29840	27563	10.00	9.237	pg	-8	15	
Heptachlor epoxide	A	26882	25567	10.00	9.511	pg	-5	15	
gamma-Chlordane	A	26936	25574	10.00	9.494	pg	-5	15	
alpha-Chlordane	A	25536	24349	10.00	9.535	pg	-5	15	
4,4'-DDE	A	21401	16657	20.00	15.57	pg	**-22**	15	c- ***
Endosulfan I	A	31049	35564	10.00	11.45	pg	15	15	
Dieldrin	A	26255	25819	20.00	19.67	pg	-2	15	
Endrin	A	20608	20931	20.00	20.31	pg	2	15	
4,4'-DDD	A	20267	20113	20.00	19.85	pg	-1	15	
Endosulfan II	A	21574	22739	20.00	21.08	pg	5	15	
4,4'-DDT	A	16780	16147	20.00	19.25	pg	-4	15	
Methoxychlor	A	6980.8	7232.8	100.0	103.6	pg	4	15	
Endosulfan sulfate	A	17779	18386	20.00	20.68	pg	3	15	
Endrin ketone	A	22250	23736	20.00	21.33	pg	7	15	
TCMX	A	23389	21038	20.00	17.99	pg	-10	15	
Decachlorobiphenyl	A	14078	15041	20.00	21.37	pg	7	15	
alpha-BHC	B	20003	18153	10.00	9.075	pg	-9	15	
gamma-BHC	B	18296	16306	10.00	8.912	pg	-11	15	
beta-BHC	B	7529.0	6910.3	10.00	9.178	pg	-8	15	
delta-BHC	B	16959	14575	10.00	8.594	pg	-14	15	
Heptachlor	B	17420	15242	10.00	8.750	pg	-12	15	
Aldrin	B	16128	14493	10.00	8.986	pg	-10	15	
Heptachlor epoxide	B	15039	13511	10.00	8.984	pg	-10	15	
gamma-Chlordane	B	15125	13677	10.00	9.042	pg	-10	15	
alpha-Chlordane	B	14381	13088	10.00	9.101	pg	-9	15	
4,4'-DDE	B	14351	13175	20.00	18.36	pg	-8	15	
Endosulfan I	B	13718	12526	10.00	9.131	pg	-9	15	
Dieldrin	B	14464	13217	20.00	18.28	pg	-9	15	
Endrin	B	11477	10697	20.00	18.64	pg	-7	15	
4,4'-DDD	B	10999	10046	20.00	18.27	pg	-9	15	
Endosulfan II	B	12780	12346	20.00	19.32	pg	-3	15	
4,4'-DDT	B	11157	10035	20.00	17.99	pg	-10	15	
Methoxychlor	B	4253.4	3962.2	100.0	93.15	pg	-7	15	
Endosulfan sulfate	B	10689	10332	20.00	19.33	pg	-3	15	
Endrin ketone	B	13021	12714	20.00	19.53	pg	-2	15	
TCMX	B	12902	12009	20.00	18.62	pg	-7	15	
Decachlorobiphenyl	B	11011	10480	20.00	19.04	pg	-5	15	
Average EPA 8081A	A	(n=22)					7	15	
Average EPA 8081A	B	(n=22)					8	15	

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187020 PEST Water
EPA 8081A

Inst : GC23 Run Name: pest_4 IDF : 1.0
Seqnum : 806216555028 File : 150_028 Time : 30-MAY-2006 22:38
Cal : 806195056001 Caldate : 15-MAY-2006
Standards: S2997

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	38568	33787	20.00	17.52	pg	-12	15	
gamma-BHC	A	34321	28944	20.00	16.87	pg	**-16**	15	c- ***
beta-BHC	A	13369	10764	20.00	16.10	pg	**-19**	15	c- ***
delta-BHC	A	33337	26915	20.00	16.15	pg	**-19**	15	c- ***
Heptachlor	A	29173	25614	20.00	17.56	pg	-12	15	
Aldrin	A	29840	25995	20.00	17.42	pg	-13	15	
Heptachlor epoxide	A	26882	23442	20.00	17.44	pg	-13	15	
gamma-Chlordane	A	26936	23234	20.00	17.25	pg	-14	15	
alpha-Chlordane	A	25536	22050	20.00	17.27	pg	-14	15	
4,4'-DDE	A	21401	16252	40.00	30.38	pg	**-24**	15	c- ***
Endosulfan I	A	31049	32984	20.00	21.25	pg	6	15	
Dieldrin	A	26255	24578	40.00	37.44	pg	-6	15	
Endrin	A	20608	19577	40.00	38.00	pg	-5	15	
4,4'-DDD	A	20267	19102	40.00	37.70	pg	-6	15	
Endosulfan II	A	21574	20332	40.00	37.70	pg	-6	15	
4,4'-DDT	A	16780	14818	40.00	35.32	pg	-12	15	
Methoxychlor	A	6980.8	6918.2	200.0	198.2	pg	-1	15	
Endosulfan sulfate	A	17779	16283	40.00	36.64	pg	-8	15	
Endrin ketone	A	22250	20586	40.00	37.01	pg	-7	15	
TCMX	A	23389	21216	40.00	36.28	pg	-9	15	
Decachlorobiphenyl	A	14078	12114	40.00	34.42	pg	-14	15	
alpha-BHC	B	20003	17347	20.00	17.34	pg	-13	15	
gamma-BHC	B	18296	15560	20.00	17.01	pg	-15	15	
beta-BHC	B	7529.0	6536.8	20.00	17.36	pg	-13	15	
delta-BHC	B	16959	14118	20.00	16.65	pg	**-17**	15	c- ***
Heptachlor	B	17420	14889	20.00	17.09	pg	-15	15	
Aldrin	B	16128	13868	20.00	17.20	pg	-14	15	
Heptachlor epoxide	B	15039	12896	20.00	17.15	pg	-14	15	
gamma-Chlordane	B	15125	13226	20.00	17.49	pg	-13	15	
alpha-Chlordane	B	14381	12714	20.00	17.68	pg	-12	15	
4,4'-DDE	B	14351	13285	40.00	37.03	pg	-7	15	
Endosulfan I	B	13718	12037	20.00	17.55	pg	-12	15	
Dieldrin	B	14464	13388	40.00	37.02	pg	-7	15	
Endrin	B	11477	10975	40.00	38.25	pg	-4	15	
4,4'-DDD	B	10999	10613	40.00	38.60	pg	-4	15	
Endosulfan II	B	12780	12001	40.00	37.56	pg	-6	15	
4,4'-DDT	B	11157	10390	40.00	37.25	pg	-7	15	
Methoxychlor	B	4253.4	4258.0	200.0	200.2	pg	0	15	
Endosulfan sulfate	B	10689	10230	40.00	38.28	pg	-4	15	
Endrin ketone	B	13021	12830	40.00	39.42	pg	-1	15	
TCMX	B	12902	11229	40.00	34.81	pg	-13	15	
Decachlorobiphenyl	B	11011	10264	40.00	37.29	pg	-7	15	
Average EPA 8081A	A	(n=22)					11	15	
Average EPA 8081A	B	(n=22)					9	15	

-=low bias c=CCV

SEQUENCE SUMMARY FOR 187020 PEST Water
Curtis & Tompkins Laboratories

Sequence: 806195056 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 15-MAY-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	135_001	X	primer			15-MAY-2006 10:56	1.0							
002	135_002	X	primer			15-MAY-2006 16:29	1.0							
003	135_003	X	primer			15-MAY-2006 16:58	1.0							
004	135_004	X	primer			15-MAY-2006 17:27	1.0							
005	135_005	X	primer			15-MAY-2006 17:56	1.0							
006	135_006	X	primer			15-MAY-2006 18:24	1.0							
007	135_007	X	primer			15-MAY-2006 18:53	1.0							
008	135_008	X	primer			15-MAY-2006 19:22	1.0							
009	135_009	X	primer			15-MAY-2006 19:51	1.0							
010	135_010	X	primer			15-MAY-2006 20:20	1.0							
011	135_011	X	hex			15-MAY-2006 20:48	1.0							
012	135_012	X	hex			15-MAY-2006 21:17	1.0							
013	135_013	PEM	pem			15-MAY-2006 21:46	1.0			1			1	
014	135_014	X	hex			15-MAY-2006 22:15	1.0							
015	135_015	ICAL	pest_1			15-MAY-2006 22:44	1.0						2	113
016	135_016	ICAL	pest_2			15-MAY-2006 23:13	1.0			1			3	
017	135_017	ICAL	pest_3			15-MAY-2006 23:41	1.0			1			4	
018	135_018	ICAL	pest_4			16-MAY-2006 00:10	1.0			1			5	
019	135_019	ICAL	pest_5			16-MAY-2006 00:39	1.0			1			6	
020	135_020	ICAL	pest_6			16-MAY-2006 01:08	1.0						7	
021	135_021	ICAL	pest_7			16-MAY-2006 01:37	1.0						8	
022	135_022	X	hex			16-MAY-2006 02:06	1.0							
023	135_023	ICV	icv			16-MAY-2006 02:35	1.0	1		1			9	
024	135_024	X	icv			16-MAY-2006 03:03	1.0						9	
025	135_025	X	pem			16-MAY-2006 03:32	1.0						1	
026	135_026	X	hex			16-MAY-2006 04:01	1.0							

Stds used: 1=S3206 2=S2827 3=S3283 4=S2996 5=S2997 6=S3111 7=S2828 8=S2823 9=S3067

SEQUENCE SUMMARY FOR 187020 PEST Water
Curtis & Tompkins Laboratories

Sequence: 806216555 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 30-MAY-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	150_002	PEM	pem			30-MAY-2006 09:15	1.0	1.0			1	1	
003	150_003	CCV	pest_2			30-MAY-2006 09:44	1.0	1.0	1		1	2	
004	150_004	X	hex			30-MAY-2006 10:20	1.0						
005	150_005	MSS	186997-002	113804	Soil	30-MAY-2006 10:49	2.0	0.6633	1		1		
006	150_006	SAMPLE	186997-004	113804	Soil	30-MAY-2006 11:18	5.0	0.6696	1		1		
007	150_007	SAMPLE	186997-001	113804	Soil	30-MAY-2006 11:46	10.0	0.6623	2		1	2:DDE44=306.944	
008	150_008	MSS	186997-003	113804	Soil	30-MAY-2006 12:16	10.0	0.6702	2		1	2:DDE44=310.398	
009	150_009	SAMPLE	186997-001	113804	Soil	30-MAY-2006 12:56	50.0	0.6623	1		1	1:DDE44=106.513	
010	150_010	SAMPLE	186997-001	113804	Soil	30-MAY-2006 13:35	100.0	0.6623	1		1		
011	150_011	SAMPLE	186997-003	113804	Soil	30-MAY-2006 14:03	100.0	0.6702	1		1		
012	150_012	PEM	pem			30-MAY-2006 14:32	1.0	1.0			1	1	
013	150_013	CCV	pest_3			30-MAY-2006 15:01	1.0	1.0	1		1	3	
014	150_014	X	hex			30-MAY-2006 15:55	1.0						
015	150_015	BLANK	QC341755	113870	Water	30-MAY-2006 16:24	1.0	0.01	5		1		
016	150_016	BS	QC341756	113870	Water	30-MAY-2006 16:53	1.0	0.01	5		1		114
017	150_017	BSD	QC341757	113870	Water	30-MAY-2006 17:22	1.0	0.01	5		1		
018	150_018	SAMPLE	187080-019	113870	Water	30-MAY-2006 17:51	1.0	0.009709	5		1		
019	150_019	SAMPLE	187076-003	113870	Water	30-MAY-2006 18:19	5.0	0.01176	5		1		
020	150_020	SAMPLE	187020-014	113870	Water	30-MAY-2006 18:48	5.0	0.009709	5		1		
021	150_021	SAMPLE	187020-015	113870	Water	30-MAY-2006 19:17	1.0	0.009709	5		1		
022	150_022	SAMPLE	187020-017	113870	Water	30-MAY-2006 19:45	1.0	0.009434	5		1		
023	150_023	SAMPLE	187065-012	113870	Water	30-MAY-2006 20:14	5.0	0.009524	6	2	1	1:BHCBET=159.018	
024	150_024	SAMPLE	187065-013	113870	Water	30-MAY-2006 20:43	5.0	0.009524	6	2	1	1:BHCBET=155.414	
025	150_025	X	hex			30-MAY-2006 21:12	1.0						
026	150_026	PEM	pem			30-MAY-2006 21:41	1.0	1.0			1	1	
027	150_027	X	pest_4			30-MAY-2006 22:09	1.0	1.0			1	4 ac	
028	150_028	CCV	pest_4			30-MAY-2006 22:38	1.0	1.0	5		1	4	
029	150_029	X	pem			30-MAY-2006 23:07	1.0					1	
030	150_030	X	hex			30-MAY-2006 23:36	1.0						
031	150_031	SAMPLE	187070-001	113870	Water	31-MAY-2006 00:05	10.0	0.009615	6		1		

Stds used: 1=S3206 2=S3283 3=S2996 4=S2997
Flags used: ac=average CCV drift out

SEQUENCE SUMMARY FOR 187020 PEST Water
Curtis & Tompkins Laboratories

Sequence: 806216555 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 30-MAY-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	150_032	SAMPLE	187070-002	113870	Water	31-MAY-2006 00:34	10.0	0.009524	6		1		
033	150_033	X	hex			31-MAY-2006 01:02	1.0						
034	150_034	PEM	pem			31-MAY-2006 01:31	1.0	1.0			1	1	
035	150_035	CCV	pest_2			31-MAY-2006 02:00	1.0	1.0	2		1	2	
036	150_036	X	pest_2			31-MAY-2006 02:29	1.0					2	
037	150_037	X	pem			31-MAY-2006 02:58	1.0					1	
038	150_038	X	hex			31-MAY-2006 03:27	1.0						

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Stds used: 1=S3206 2=S3283 3=S2996 4=S2997
Flags used: ac=average CCV drift out

REPORTING SUMMARY FOR 187020 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
187020-014	alpha-BHC	GC23	B	05/30/06 18:48
187020-014	beta-BHC	GC23	B	05/30/06 18:48
187020-014	gamma-BHC	GC23	B	05/30/06 18:48
187020-014	delta-BHC	GC23	B	05/30/06 18:48
187020-014	Heptachlor	GC23	B	05/30/06 18:48
187020-014	Aldrin	GC23	B	05/30/06 18:48
187020-014	Heptachlor epoxide	GC23	B	05/30/06 18:48
187020-014	Endosulfan I	GC23	B	05/30/06 18:48
187020-014	Dieldrin	GC23	B	05/30/06 18:48
187020-014	4,4'-DDE	GC23	B	05/30/06 18:48
187020-014	Endrin	GC23	B	05/30/06 18:48
187020-014	Endosulfan II	GC23	B	05/30/06 18:48
187020-014	Endosulfan sulfate	GC23	B	05/30/06 18:48
187020-014	4,4'-DDD	GC23	B	05/30/06 18:48
187020-014	4,4'-DDT	GC23	B	05/30/06 18:48
187020-014	alpha-Chlordane	GC23	B	05/30/06 18:48
187020-014	gamma-Chlordane	GC23	B	05/30/06 18:48
187020-014	Methoxychlor	GC23	B	05/30/06 18:48
187020-014	Endrin ketone	GC23	B	05/30/06 18:48
187020-014	Toxaphene	GC23	B	05/30/06 18:48
187020-014	TCMX	GC23	B	05/30/06 18:48
187020-014	Decachlorobiphenyl	GC23	B	05/30/06 18:48
187020-015	alpha-BHC	GC23	B	05/30/06 19:17
187020-015	beta-BHC	GC23	B	05/30/06 19:17
187020-015	gamma-BHC	GC23	B	05/30/06 19:17
187020-015	delta-BHC	GC23	B	05/30/06 19:17
187020-015	Heptachlor	GC23	B	05/30/06 19:17
187020-015	Aldrin	GC23	B	05/30/06 19:17
187020-015	Heptachlor epoxide	GC23	B	05/30/06 19:17
187020-015	Endosulfan I	GC23	B	05/30/06 19:17
187020-015	Dieldrin	GC23	B	05/30/06 19:17
187020-015	4,4'-DDE	GC23	B	05/30/06 19:17
187020-015	Endrin	GC23	B	05/30/06 19:17
187020-015	Endosulfan II	GC23	B	05/30/06 19:17
187020-015	Endosulfan sulfate	GC23	B	05/30/06 19:17
187020-015	4,4'-DDD	GC23	B	05/30/06 19:17
187020-015	4,4'-DDT	GC23	B	05/30/06 19:17
187020-015	alpha-Chlordane	GC23	B	05/30/06 19:17
187020-015	gamma-Chlordane	GC23	B	05/30/06 19:17
187020-015	Methoxychlor	GC23	B	05/30/06 19:17
187020-015	Endrin ketone	GC23	B	05/30/06 19:17
187020-015	Toxaphene	GC23	B	05/30/06 19:17
187020-015	TCMX	GC23	B	05/30/06 19:17
187020-015	Decachlorobiphenyl	GC23	B	05/30/06 19:17
187020-017	alpha-BHC	GC23	B	05/30/06 19:45
187020-017	beta-BHC	GC23	B	05/30/06 19:45
187020-017	gamma-BHC	GC23	B	05/30/06 19:45
187020-017	delta-BHC	GC23	B	05/30/06 19:45
187020-017	Heptachlor	GC23	B	05/30/06 19:45
187020-017	Aldrin	GC23	B	05/30/06 19:45
187020-017	Heptachlor epoxide	GC23	B	05/30/06 19:45
187020-017	Endosulfan I	GC23	B	05/30/06 19:45

REPORTING SUMMARY FOR 187020 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
187020-017	Dieldrin	GC23	B	05/30/06 19:45
187020-017	4,4'-DDE	GC23	B	05/30/06 19:45
187020-017	Endrin	GC23	B	05/30/06 19:45
187020-017	Endosulfan II	GC23	B	05/30/06 19:45
187020-017	Endosulfan sulfate	GC23	B	05/30/06 19:45
187020-017	4,4'-DDD	GC23	B	05/30/06 19:45
187020-017	4,4'-DDT	GC23	B	05/30/06 19:45
187020-017	alpha-Chlordane	GC23	B	05/30/06 19:45
187020-017	gamma-Chlordane	GC23	B	05/30/06 19:45
187020-017	Methoxychlor	GC23	B	05/30/06 19:45
187020-017	Endrin ketone	GC23	B	05/30/06 19:45
187020-017	Toxaphene	GC23	B	05/30/06 19:45
187020-017	TCMX	GC23	B	05/30/06 19:45
187020-017	Decachlorobiphenyl	GC23	B	05/30/06 19:45
QC341755	alpha-BHC	GC23	B	05/30/06 16:24
QC341755	beta-BHC	GC23	B	05/30/06 16:24
QC341755	gamma-BHC	GC23	B	05/30/06 16:24
QC341755	delta-BHC	GC23	B	05/30/06 16:24
QC341755	Heptachlor	GC23	B	05/30/06 16:24
QC341755	Aldrin	GC23	B	05/30/06 16:24
QC341755	Heptachlor epoxide	GC23	B	05/30/06 16:24
QC341755	Endosulfan I	GC23	B	05/30/06 16:24
QC341755	Dieldrin	GC23	B	05/30/06 16:24
QC341755	4,4'-DDE	GC23	B	05/30/06 16:24
QC341755	Endrin	GC23	B	05/30/06 16:24
QC341755	Endosulfan II	GC23	B	05/30/06 16:24
QC341755	Endosulfan sulfate	GC23	B	05/30/06 16:24
QC341755	4,4'-DDD	GC23	B	05/30/06 16:24
QC341755	4,4'-DDT	GC23	B	05/30/06 16:24
QC341755	alpha-Chlordane	GC23	B	05/30/06 16:24
QC341755	gamma-Chlordane	GC23	B	05/30/06 16:24
QC341755	Methoxychlor	GC23	B	05/30/06 16:24
QC341755	Endrin ketone	GC23	B	05/30/06 16:24
QC341755	Toxaphene	GC23	B	05/30/06 16:24
QC341755	TCMX	GC23	B	05/30/06 16:24
QC341755	Decachlorobiphenyl	GC23	B	05/30/06 16:24
QC341756	gamma-BHC	GC23	B	05/30/06 16:53
QC341756	Heptachlor	GC23	B	05/30/06 16:53
QC341756	Aldrin	GC23	B	05/30/06 16:53
QC341756	Dieldrin	GC23	B	05/30/06 16:53
QC341756	Endrin	GC23	B	05/30/06 16:53
QC341756	4,4'-DDT	GC23	B	05/30/06 16:53
QC341756	TCMX	GC23	B	05/30/06 16:53
QC341756	Decachlorobiphenyl	GC23	B	05/30/06 16:53
QC341757	gamma-BHC	GC23	B	05/30/06 17:22
QC341757	Heptachlor	GC23	B	05/30/06 17:22
QC341757	Aldrin	GC23	B	05/30/06 17:22
QC341757	Dieldrin	GC23	B	05/30/06 17:22
QC341757	Endrin	GC23	B	05/30/06 17:22
QC341757	4,4'-DDT	GC23	B	05/30/06 17:22
QC341757	TCMX	GC23	B	05/30/06 17:22

Curtis & Tompkins Laboratories **Sample Preparation Summary** **30-MAY-2006 15:16**

Batch Number : 113870
Date Extracted: 26-MAY-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : 8081
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S3509B
Spike #2 ID : S3083E
Spike #3 ID :
SOP Version : 8081w_rv14

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
187020-014		Treadwell & Rollo	Water	1030	mL	10	0.009709	1	7	.025	0		8081		
187020-015		Treadwell & Rollo	Water	1030	mL	10	0.009709	1	7	.025	0		8081		
187020-017		Treadwell & Rollo	Water	1060	mL	10	0.009434	1	7	.025	0		8081		
187065-012		Treadwell & Rollo	Water	1050	mL	10	0.009524	1	7	.025	0		8081		
187065-013		Treadwell & Rollo	Water	1050	mL	10	0.009524	1	7	.025	0		8081		
187070-001		Montezuma Wetlands LLC	Water	1040	mL	10	0.009615	1	7	.025	0		8081		
187070-002		Montezuma Wetlands LLC	Water	1050	mL	10	0.009524	1	7	.025	0		8081		
187076-003		CH2M Hill Constructors Inc.	Water	850	mL	10	0.011765	1	7	.025	0		8081		
187080-019		Treadwell & Rollo	Water	1030	mL	10	0.009709	1	7	.025	0		8081		
QC341755	BLANK		Water	1000	mL	10	0.010000	1		.025	0		8081		
QC341756	BS		Water	1000	mL	10	0.010000	1		.025	.025		8081		
QC341757	BSD		Water	1000	mL	10	0.010000	1		.025	.025		8081		

Prep Chemist: Jessie Mee Reviewed By: KRey Date: 30 MAY 06

Relinquished By: Julie Mizotta Received By: [illegible] Date: 5-31-06

Curtis & Tompkins, Ltd

8081 WATER PREP LOG

BK2210

LIMS Batch No: 113870
LIMS Analysis: 8081
Extracted by: JDM
Date Extracted: 26 May 06

Extraction Method:
- ☐ EPA 3510c sep. funnel
- ☒ EPA 3520c cont. L/L
- ☐ _____

Cleanup Method (if needed):
- ☐ EPA 3640a GPC
- ☐ EPA 3620b Florisil
- ☐ _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
187020-014 E	1030	7	10.0		
15 E	1030				
17 G	1060				
187065-012 L	1050				
13 L	1050				
187070-001 F	1040				
02 F	1050				
187076-003 D	1050				
187080-019 B	1030				
MB QC341755	1000	NA			
BS 56					
BSD 57					
					JZM 5/30/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.025 mL of surrogate solution was added to all samples	S3509B	JDM 5/26/06
0.025 mL of matrix spiking solution was added to all spikes	S3083E	
☒ Samples continuously extracted with about 450 mL of CH_2Cl_2	EM4610	
Extraction Start Time:	1635	
Extraction End Time:	10:35	MCBR 5/27/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	N/A	JZM 5/30/06
Extracts filtered through baked, CH_2Cl_2-rinsed ~~powdered~~ granular Na_2SO_4	EM45091549	
Exchanged 2x with Hexane	CQ108	
Concentrated: ☒ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Florisil	N/A	

Jeffrey Lee 5/26/06
Extraction Chemist Date

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Continued on Page —

K Ley 30 MAY 06
Reviewed by Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8081A Water
As of 06/19/06

Analyte	Units	GC16 A	GC16 B	GC21 A	GC21 B	GC23 A	GC23 B
gamma-BHC	ug/L	0.0032	0.0025	0.0065	0.0039	0.0029	0.0039
Heptachlor	ug/L	0.0057	0.0061	0.0083	0.0056	0.0029	0.0055
Aldrin	ug/L	0.0066	0.0066	0.0094	0.0070	0.0062	0.0077
Dieldrin	ug/L	0.0074	0.0070	0.011	0.0051	0.0041	0.0097
Endrin	ug/L	0.0095	0.0083	0.012	0.011	0.0054	0.011
4,4'-DDT	ug/L	0.011	0.0099	0.012	0.0071	0.0088	0.0087
alpha-BHC	ug/L	0.0029	0.0027	0.0063	0.0040	0.0032	0.0049
beta-BHC	ug/L	0.0033	0.0052	0.0061	0.011	0.0029	0.0055
delta-BHC	ug/L	0.0040	0.0026	0.0065	0.0023	0.0018	0.0041
Heptachlor epoxide	ug/L	0.0033	0.0032	0.0066	0.0097	0.0028	0.0044
gamma-Chlordane	ug/L	0.0041	0.0037	0.0064	0.011	0.0020	0.0042
alpha-Chlordane	ug/L	0.0045	0.0036	0.010	0.0052	0.0023	0.0052
Endosulfan I	ug/L	0.0043	0.0032	0.0062	0.0033	0.0026	0.0048
4,4'-DDE	ug/L	0.010	0.0082	0.011	0.0057	0.0045	0.0097
Endosulfan II	ug/L	0.0088	0.0073	0.013	0.0077	0.0066	0.0097
Endosulfan sulfate	ug/L	0.015	0.0087	0.0096	0.0054	0.0054	0.0093
4,4'-DDD	ug/L	0.0088	0.0090	0.011	0.0096	0.0033	0.010
Endrin aldehyde	ug/L	0.0084	0.0086	0.010	0.0092	0.0052	0.0088
Chlordane (Technical)	ug/L	0.19	0.19	0.26	0.21	0.17	0.21
Methoxychlor	ug/L	0.057	0.080	0.050	0.018	0.043	0.051
Endrin ketone	ug/L	0.027	0.0095	0.0083	0.023	0.0051	0.015
Toxaphene	ug/L	0.39	0.34	0.49	0.26	0.54	0.29

PCBs

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Field ID:	LF6GW103	Batch#:	113812
Matrix:	Water	Sampled:	05/23/06
Units:	ug/L	Received:	05/24/06
Diln Fac:	1.000	Prepared:	05/25/06

Type:	SAMPLE	Analyzed:	05/27/06
Lab ID:	187020-017	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.47
Aroclor-1221	ND	0.94
Aroclor-1232	ND	0.47
Aroclor-1242	ND	0.47
Aroclor-1248	ND	0.47
Aroclor-1254	ND	0.47
Aroclor-1260	ND	0.47

Surrogate	%REC	Limits
TCMX	93	65-135
Decachlorobiphenyl	89	65-135

Type:	BLANK	Analyzed:	05/30/06
Lab ID:	QC341528	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	92	65-135
Decachlorobiphenyl	96	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8082
Matrix:	Water	Batch#:	113812
Units:	ug/L	Prepared:	05/25/06
Diln Fac:	1.000	Analyzed:	05/30/06

Type: BS Cleanup Method: EPA 3665A
Lab ID: QC341529

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	5.000	6.844	137 *	77-131
Aroclor-1260	5.000	7.070	141 *	65-135

Surrogate	%REC	Limits
TCMX	94	65-135
Decachlorobiphenyl	109	65-135

Type: BSD Cleanup Method: EPA 3665A
Lab ID: QC341530

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	5.000	7.004	140 *	77-131	2	28
Aroclor-1260	5.000	7.096	142 *	65-135	0	35

Surrogate	%REC	Limits
TCMX	95	65-135
Decachlorobiphenyl	109	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187020 PCBS Water: EPA 8082

Inst : GC22
Calnum : 256206627001
Units : pg

Name : ar1660-143
Date : 23-MAY-2006 12:39
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	143_003	256206627003	pcb10_20	23-MAY-2006 12:39	S3538
L2	143_004	256206627004	pcb25_5	23-MAY-2006 13:06	S3537
L3	143_005	256206627005	pcb100_20	23-MAY-2006 13:32	S3535
L4	143_006	256206627006	pcb250_50	23-MAY-2006 13:58	S3525
L5	143_007	256206627007	pcb500_100	23-MAY-2006 14:25	S3524
L6	143_008	256206627008	pcb750_150	23-MAY-2006 14:51	S3511
L7	143_009	256206627009	pcb1000_200	23-MAY-2006 15:18	S3427

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aroclor-1016 Peak # 1	A	395.20	390.00	361.50	351.75	332.05	303.41	283.19	AVRG		0.00290		345.30	12	.99	20	
Aroclor-1016 Peak # 2	A	792.70	744.04	650.91	585.90	561.78	508.08	477.29	AVRG		0.00162		617.24	19	.99	20	
Aroclor-1016 Peak # 3	A	646.30	634.28	590.23	542.22	526.70	482.90	454.08	AVRG		0.00181		553.82	13	.99	20	
Aroclor-1016 Peak # 4	A	455.60	392.48	380.13	348.11	339.64	311.07	293.86	AVRG		0.00278		360.13	15	.99	20	
Aroclor-1016 Peak # 5	A	503.40	453.56	422.53	388.01	372.80	341.18	317.39	AVRG		0.00250		399.84	16	.99	20	
Aroclor-1260 Peak # 1	A	1636.8	1554.2	1265.8	1191.7	1207.5	1113.5	1044.6	AVRG		7.77E-4		1287.7	17	.99	20	
Aroclor-1260 Peak # 2	A	1391.5	1362.8	1107.0	1043.2	1048.5	974.19	911.28	AVRG		8.93E-4		1119.8	17	.99	20	
Aroclor-1260 Peak # 3	A	916.20	857.32	714.70	680.10	678.38	611.45	572.01	AVRG		0.00139		718.59	17	.99	20	
Aroclor-1260 Peak # 4	A	2097.8	2059.2	1661.6	1598.2	1665.1	1512.8	1408.9	AVRG		5.83E-4		1714.8	15	.99	20	
Aroclor-1260 Peak # 5	A	678.90	918.92	839.98	819.13	823.99	743.23	696.95	AVRG		0.00127		788.73	11	.99	20	
TCMX	A	19350	19108	17042	16486	16906	15416	14202	AVRG		5.91E-5		16930	11	.99	20	
Decachlorobiphenyl	A	14845	14896	12210	11915	12365	10812	10125	AVRG		8.03E-5		12452	15	.99	20	
Aroclor-1016 Peak # 1	B	240.60	256.68	213.68	164.15	193.51	168.54	162.32	AVRG		0.00500		199.93	19	.99	20	
Aroclor-1016 Peak # 2	B	195.60	225.40	179.33	170.52	167.44	155.56	158.14	AVRG		0.00559		178.86	14	.99	20	
Aroclor-1016 Peak # 3	B	278.80	330.12	272.84	257.31	245.78	232.45	199.20	AVRG		0.00385		259.50	16	.99	20	
Aroclor-1016 Peak # 4	B	293.00	305.36	308.00	335.58	314.37	297.68	292.22	AVRG		0.00326		306.60	5	.99	20	
Aroclor-1016 Peak # 5	B	221.10	256.68	223.53	214.80	203.25	187.91	188.28	AVRG		0.00468		213.65	11	.99	20	
Aroclor-1260 Peak # 1	B	746.50	741.28	655.75	580.98	539.50	511.72	545.77	AVRG		0.00162		617.36	16	.99	20	
Aroclor-1260 Peak # 2	B	728.90	796.36	688.31	619.48	577.22	549.25	578.36	AVRG		0.00154		648.27	14	.99	20	
Aroclor-1260 Peak # 3	B	510.40	525.04	462.85	414.71	383.39	357.68	382.37	AVRG		0.00231		433.78	15	.99	20	
Aroclor-1260 Peak # 4	B	430.50	456.48	387.52	350.02	324.08	301.46	325.51	AVRG		0.00272		367.94	16	.99	20	
Aroclor-1260 Peak # 5	B	550.40	556.20	508.78	444.53	418.40	388.77	426.66	AVRG		0.00213		470.53	14	.99	20	
TCMX	B	12331	12611	10112	9502.2	9527.0	9064.6	8723.1	AVRG		9.74E-5		10267	15	.99	20	
Decachlorobiphenyl	B	8064.5	8006.4	6804.8	5828.7	5635.6	5228.7	6018.2	AVRG		1.54E-4		6512.4	18	.99	20	

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187020 PCBS Water: EPA 8082

Inst : GC22
Calnum : 256206627003
Units : pg

Name : ar2154
Date : 24-MAY-2006 07:45
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	143_018	256206627018	ar2154	24-MAY-2006 07:45	S3539

Analyte	Ch	L1	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aroclor-1221 Peak # 1	A	90.380	AVRG		0.01106		90.380	0	.99	20	
Aroclor-1221 Peak # 2	A	201.99	AVRG		0.00495		201.99	0	.99	20	
Aroclor-1221 Peak # 3	A	126.96	AVRG		0.00788		126.96	0	.99	20	
Aroclor-1221 Peak # 4	A	531.06	AVRG		0.00188		531.06	0	.99	20	
Aroclor-1221 Peak # 5	A	74.700	AVRG		0.01339		74.700	0	.99	20	
Aroclor-1254 Peak # 1	A	581.00	AVRG		0.00172		581.00	0	.99	20	
Aroclor-1254 Peak # 2	A	780.28	AVRG		0.00128		780.28	0	.99	20	
Aroclor-1254 Peak # 3	A	594.08	AVRG		0.00168		594.08	0	.99	20	
Aroclor-1254 Peak # 4	A	1068.3	AVRG		9.36E-4		1068.3	0	.99	20	
Aroclor-1254 Peak # 5	A	874.97	AVRG		0.00114		874.97	0	.99	20	
Aroclor-1221 Peak # 1	B	67.180	AVRG		0.01489		67.180	0	.99	20	
Aroclor-1221 Peak # 2	B	127.46	AVRG		0.00785		127.46	0	.99	20	
Aroclor-1221 Peak # 3	B	105.20	AVRG		0.00951		105.20	0	.99	20	
Aroclor-1221 Peak # 4	B	309.29	AVRG		0.00323		309.29	0	.99	20	
Aroclor-1221 Peak # 5	B	60.996	AVRG		0.01639		60.996	0	.99	20	
Aroclor-1254 Peak # 1	B	373.19	AVRG		0.00268		373.19	0	.99	20	
Aroclor-1254 Peak # 2	B	504.49	AVRG		0.00198		504.49	0	.99	20	
Aroclor-1254 Peak # 3	B	365.21	AVRG		0.00274		365.21	0	.99	20	
Aroclor-1254 Peak # 4	B	654.90	AVRG		0.00153		654.90	0	.99	20	
Aroclor-1254 Peak # 5	B	453.16	AVRG		0.00221		453.16	0	.99	20	

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Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 187020 PCBS Water
EPA 8082

Inst : GC22
Calnum : 256206627001

Name : ar1660-143
Cal Date: 23-MAY-2006

ICV 256206627011 (143_011 23-MAY-2006) stds: S2181

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Aroclor-1016	A	345.30		250.0	240.6	pg	-4	15	
Aroclor-1260	A	1287.7		250.0	242.7	pg	-3	15	
Aroclor-1016	B	199.93		250.0	245.2	pg	-2	15	
Aroclor-1260	B	617.36		250.0	253.9	pg	2	15	

CONTINUING CALIBRATION SUMMARY FOR 187020 PCBS Water
Curtis & Tompkins Laboratories

Analyte: Aroclor-1016

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC22	A	256211044021	27-MAY-2006 03:32	256206627001	23-MAY-2006			500.00	483.30	pg	-3	15	
GC22	B	256211044021	27-MAY-2006 03:32	256206627001	23-MAY-2006			500.00	625.30	pg	**25**	15	c+ ***
GC22	A	256211044038	27-MAY-2006 11:02	256206627001	23-MAY-2006			750.00	640.88	pg	-15	15	
GC22	B	256211044038	27-MAY-2006 11:02	256206627001	23-MAY-2006			750.00	753.02	pg	0	15	
GC22	A	256216664003	30-MAY-2006 11:57	256206627001	23-MAY-2006			500.00	516.84	pg	3	15	
GC22	B	256216664003	30-MAY-2006 11:57	256206627001	23-MAY-2006			500.00	651.74	pg	**30**	15	c+ ***
GC22	A	256216664014	30-MAY-2006 17:25	256206627001	23-MAY-2006			250.00	265.85	pg	6	15	
GC22	B	256216664014	30-MAY-2006 17:25	256206627001	23-MAY-2006			250.00	304.75	pg	**22**	15	c+ ***

+=high bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 187020 PCBS Water
Curtis & Tompkins Laboratories

Analyte: Aroclor-1260

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC22	A	256211044021	27-MAY-2006 03:32	256206627001	23-MAY-2006			500.00	488.38	pg	-2	15	
GC22	B	256211044021	27-MAY-2006 03:32	256206627001	23-MAY-2006			500.00	732.76	pg	**47**	15	c+ ***
GC22	A	256211044038	27-MAY-2006 11:02	256206627001	23-MAY-2006			750.00	673.60	pg	-10	15	
GC22	B	256211044038	27-MAY-2006 11:02	256206627001	23-MAY-2006			750.00	865.43	pg	15	15	
GC22	A	256216664003	30-MAY-2006 11:57	256206627001	23-MAY-2006			500.00	553.58	pg	11	15	
GC22	B	256216664003	30-MAY-2006 11:57	256206627001	23-MAY-2006			500.00	798.20	pg	**60**	15	c+ ***
GC22	A	256216664014	30-MAY-2006 17:25	256206627001	23-MAY-2006			250.00	266.37	pg	7	15	
GC22	B	256216664014	30-MAY-2006 17:25	256206627001	23-MAY-2006			250.00	363.33	pg	**45**	15	c+ ***

+=high bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 187020 PCBS Water
Curtis & Tompkins Laboratories

Analyte: TCMX

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC22	A	256211044021	27-MAY-2006 03:32	256206627001	23-MAY-2006	16930	17293	100.00	102.15	pg	2	15	
GC22	B	256211044021	27-MAY-2006 03:32	256206627001	23-MAY-2006	10267	11989	100.00	116.77	pg	**17**	15	c+
GC22	A	256211044038	27-MAY-2006 11:02	256206627001	23-MAY-2006	16930	15478	150.00	137.13	pg	-9	15	
GC22	B	256211044038	27-MAY-2006 11:02	256206627001	23-MAY-2006	10267	9655.7	150.00	141.07	pg	-6	15	
GC22	A	256216664003	30-MAY-2006 11:57	256206627001	23-MAY-2006	16930	19026	100.00	112.38	pg	12	15	
GC22	B	256216664003	30-MAY-2006 11:57	256206627001	23-MAY-2006	10267	12367	100.00	120.45	pg	**20**	15	c+
GC22	A	256216664014	30-MAY-2006 17:25	256206627001	23-MAY-2006	16930	18332	50.000	54.141	pg	8	15	
GC22	B	256216664014	30-MAY-2006 17:25	256206627001	23-MAY-2006	10267	11211	50.000	54.596	pg	9	15	

+=high bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 187020 PCBS Water
Curtis & Tompkins Laboratories

Analyte: Decachlorobiphenyl

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC22	A	256211044021	27-MAY-2006 03:32	256206627001	23-MAY-2006	12452	12115	100.00	97.288	pg	-3	15	
GC22	B	256211044021	27-MAY-2006 03:32	256206627001	23-MAY-2006	6512.4	11128	100.00	170.88	pg	**71**	15	c+
GC22	A	256211044038	27-MAY-2006 11:02	256206627001	23-MAY-2006	12452	11092	150.00	133.61	pg	-11	15	
GC22	B	256211044038	27-MAY-2006 11:02	256206627001	23-MAY-2006	6512.4	8372.3	150.00	192.84	pg	**29**	15	c+
GC22	A	256216664003	30-MAY-2006 11:57	256206627001	23-MAY-2006	12452	14089	100.00	113.14	pg	13	15	
GC22	B	256216664003	30-MAY-2006 11:57	256206627001	23-MAY-2006	6512.4	12008	100.00	184.38	pg	**84**	15	c+
GC22	A	256216664014	30-MAY-2006 17:25	256206627001	23-MAY-2006	12452	13612	50.000	54.657	pg	9	15	
GC22	B	256216664014	30-MAY-2006 17:25	256206627001	23-MAY-2006	6512.4	10132	50.000	77.787	pg	**56**	15	c+

+=high bias c=CCV

SEQUENCE SUMMARY FOR 187020 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 256206627 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 23-MAY-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	143_001	X	hex			23-MAY-2006 11:47	1.0						
002	143_002	X	hex			23-MAY-2006 12:13	1.0						
003	143_003	ICAL	pcb10_20			23-MAY-2006 12:39	1.0	1.0				1	
004	143_004	ICAL	pcb25_5			23-MAY-2006 13:06	1.0	1.0				2	
005	143_005	ICAL	pcb100_20			23-MAY-2006 13:32	1.0	1.0				3	
006	143_006	ICAL	pcb250_50			23-MAY-2006 13:58	1.0	1.0				4	
007	143_007	ICAL	pcb500_100			23-MAY-2006 14:25	1.0	1.0				5	
008	143_008	ICAL	pcb750_150			23-MAY-2006 14:51	1.0	1.0				6	
009	143_009	ICAL	pcb1000_200			23-MAY-2006 15:18	1.0	1.0				7	
010	143_010	X	hex			23-MAY-2006 21:13	1.0						
011	143_011	ICV	ultra_1660			23-MAY-2006 21:39	1.0	1.0			1	8	
012	143_012	X	ultra_1660			23-MAY-2006 22:06	1.0					8	
013	143_013	X	hex			23-MAY-2006 22:32	1.0						
014	143_014	X	pcb250_50			23-MAY-2006 22:58	1.0					4	
015	143_015	X	ccv			23-MAY-2006 23:25	1.0					4	131
016	143_016	X	ccv			23-MAY-2006 23:51	1.0					4	
017	143_017	X	ccv			24-MAY-2006 00:17	1.0					4	
018	143_018	ICAL	ar2154			24-MAY-2006 07:45	1.0	1.0				9	
019	143_019	X	ccv			24-MAY-2006 08:23	1.0					9	
020	143_020	ICAL	ar1248			24-MAY-2006 08:49	1.0	1.0			1	10	
021	143_021	X	ccv			24-MAY-2006 09:16	1.0					10	
022	143_022	X	hex			24-MAY-2006 09:42	1.0						
023	143_023	MSS	186881-001	113630	Soil	24-MAY-2006 10:08	1.0	0.6702			1		
024	143_024	SAMPLE	186881-003	113630	Soil	24-MAY-2006 10:35	2.0	0.6676	1		1		1:PCB126=1014.36
025	143_025	SAMPLE	186881-004	113630	Soil	24-MAY-2006 11:01	1.0	0.6667			1		
026	143_026	SAMPLE	186881-005	113630	Soil	24-MAY-2006 11:27	100.0	0.6775			1		
027	143_027	SAMPLE	186881-006	113630	Soil	24-MAY-2006 11:54	100.0	0.6689			1		
028	143_028	SAMPLE	186881-007	113630	Soil	24-MAY-2006 12:20	100.0	0.677			1		
029	143_029	MSS	186874-001	113596	Soil	24-MAY-2006 12:46	10.0	0.6667			1		
030	143_030	SAMPLE	186874-002	113596	Soil	24-MAY-2006 13:13	1.0	0.6588			1		
031	143_031	SAMPLE	186874-021	113630	Soil	24-MAY-2006 13:39	1.0	0.6707		1	1		

Stds used: 1=S3538 2=S3537 3=S3535 4=S3525 5=S3524 6=S3511 7=S3427 8=S2181 9=S3539 10=S3251

SEQUENCE SUMMARY FOR 187020 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 256206627 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 23-MAY-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	143_032	SAMPLE	186879-001	113597	Soil	24-MAY-2006 14:05	1.0	0.6575		1	1		
033	143_033	X	hex			24-MAY-2006 14:32	1.0						
034	143_034	CCV	pcb500_100			24-MAY-2006 14:58	1.0	1.0			1	5	
035	143_035	X	ccv			24-MAY-2006 15:24	1.0					5	
036	143_036	X	ar2154			24-MAY-2006 15:51	1.0	1.0			1	9	
037	143_037	CCV	ar2154			24-MAY-2006 16:17	1.0	1.0	1		1	9	
038	143_038	X	ar1248			24-MAY-2006 16:43	1.0					10	
039	143_039	CCV	ar1248			24-MAY-2006 17:10	1.0	1.0			1	10	
040	143_040	X	hex			24-MAY-2006 17:36	1.0						
041	143_041	BLANK	QC340677	113597	Soil	24-MAY-2006 18:02	1.0						
042	143_042	SAMPLE	186879-002	113597	Soil	24-MAY-2006 18:33	1.0						

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Stds used: 1=S3538 2=S3537 3=S3535 4=S3525 5=S3524 6=S3511 7=S3427 8=S2181 9=S3539 10=S3251

SEQUENCE SUMMARY FOR 187020 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 256211044 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 26-MAY-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6
Analytical Method: EPA 8082 SOP Version: 8082_congeners_rv0

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	146_001	X	hex			26-MAY-2006 13:24	1.0						
002	146_002	CCV	pcb250_50			26-MAY-2006 13:51	1.0	1.0	1		1	1	
003	146_003	X	pcb250_50			26-MAY-2006 14:17	1.0	1.0	3		1	1	
004	146_004	CCV	ar2154			26-MAY-2006 20:04	1.0					2	
005	146_005	X	ccv			26-MAY-2006 20:30	1.0					2	
006	146_006	CCV	ar1248			26-MAY-2006 20:56	1.0					3	
007	146_007	X	ccv			26-MAY-2006 21:23	1.0					3	
008	146_008	X	hex			26-MAY-2006 21:49	1.0						
009	146_009	BLANK	QC341190	113729	Water	26-MAY-2006 22:15	1.0	0.025			1		
010	146_010	BS	QC341191	113729	Water	26-MAY-2006 22:42	1.0	0.025	2	2	1		
011	146_011	BSD	QC341192	113729	Water	26-MAY-2006 23:08	1.0	0.025	2	2	1		
012	146_012	SAMPLE	187034-126	113812	Water	26-MAY-2006 23:35	1.0	0.02475			1		
013	146_013	SAMPLE	187034-127	113812	Water	27-MAY-2006 00:01	1.0	0.02475		1	1		
014	146_014	SAMPLE	187034-128	113812	Water	27-MAY-2006 00:27	1.0	0.02427		1	1		
015	146_015	SAMPLE	186932-077	113729	Water	27-MAY-2006 00:54	1.0	0.02381			1		
016	146_016	SAMPLE	186932-078	113729	Water	27-MAY-2006 01:20	1.0	0.02475		1	1		
017	146_017	SAMPLE	186913-199	113729	Water	27-MAY-2006 01:47	1.0	0.02404		1	1		
018	146_018	SAMPLE	186913-200	113729	Water	27-MAY-2006 02:13	1.0	0.02404			1		
019	146_019	X	hex			27-MAY-2006 02:40	1.0						
020	146_020	X	pcb500_100			27-MAY-2006 03:06	1.0	1.0	3		1	4	
021	146_021	CCV	pcb500_100			27-MAY-2006 03:32	1.0	1.0	2		1	4	
022	146_022	CCV	ar2154			27-MAY-2006 03:59	1.0					2	
023	146_023	X	ccv			27-MAY-2006 04:25	1.0					2	
024	146_024	CCV	ar1248			27-MAY-2006 04:52	1.0					3	
025	146_025	X	ccv			27-MAY-2006 05:18	1.0					3	
026	146_026	X	hex			27-MAY-2006 05:45	1.0						
027	146_027	SAMPLE	186944-001	113729	Water	27-MAY-2006 06:11	1.0	0.02358			1		
028	146_028	SAMPLE	186944-006	113729	Water	27-MAY-2006 06:38	1.0	0.02381			1		
029	146_029	SAMPLE	186944-011	113729	Water	27-MAY-2006 07:04	1.0	0.02381			1		

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Stds used: 1=S3525 2=S3539 3=S3251 4=S3524 5=S3511 6=S3294 7=S3295 8=S3296 9=S3297 10=S3298 11=S3299 12=S3512 13=S3307
Flags used: >=closing ac=average CCV drift out

SEQUENCE SUMMARY FOR 187020 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 256211044 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 26-MAY-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6
Analytical Method: EPA 8082 SOP Version: 8082_congeners_rv0

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
030	146_030	SAMPLE	186967-124	113729	Water	27-MAY-2006 07:31	1.0	0.02381			1		
031	146_031	SAMPLE	186967-125	113729	Water	27-MAY-2006 07:57	1.0	0.02381		1	1		
032	146_032	SAMPLE	187005-082	113812	Water	27-MAY-2006 08:24	1.0	0.02381		1	1		
033	146_033	SAMPLE	187005-083	113812	Water	27-MAY-2006 08:50	1.0	0.02358		1	1		
034	146_034	SAMPLE	187005-084	113812	Water	27-MAY-2006 09:16	1.0	0.02404		1	1		
035	146_035	SAMPLE	187020-017	113812	Water	27-MAY-2006 09:43	1.0	0.02358		1	1		
036	146_036	X	hex			27-MAY-2006 10:09	1.0						
037	146_037	X	pcb750_150			27-MAY-2006 10:36	1.0	1.0	3		1	5	7:PCB126=1114.38
038	146_038	CCV	pcb750_150			27-MAY-2006 11:02	1.0	1.0			1	5	
039	146_039	CCV	ar2154			27-MAY-2006 11:28	1.0					2	
040	146_040	X	ccv			27-MAY-2006 11:55	1.0					2	
041	146_041	CCV	ar1248			27-MAY-2006 12:21	1.0					3	
042	146_042	X	ccv			27-MAY-2006 12:47	1.0					3	
043	146_043	X	hex			27-MAY-2006 13:14	1.0						
044	146_044	X	hex			27-MAY-2006 13:40	1.0						
045	146_045	X	hex			27-MAY-2006 14:07	1.0						
046	146_046	X,ICAL	cong_1			27-MAY-2006 14:50	1.0					6	
047	146_047	X,ICAL	cong_2			27-MAY-2006 15:33	1.0					7	
048	146_048	X,ICAL	cong_5			27-MAY-2006 16:16	1.0					8	
049	146_049	X,ICAL	cong_10			27-MAY-2006 16:59	1.0					9	
050	146_050	X,ICAL	cong_25			27-MAY-2006 17:42	1.0					10	
051	146_051	X,ICAL	cong_50			27-MAY-2006 18:25	1.0					11	
052	146_052	X,ICAL	cong_75			27-MAY-2006 19:08	1.0					12	
053	146_053	X	hex			27-MAY-2006 19:51	1.0						
054	146_054	X	cong_icv			27-MAY-2006 20:34	1.0					13	
055	146_055	CCV	cong_icv			27-MAY-2006 21:17	1.0	1.0	9		1	13	
056	146_056	X	hex			27-MAY-2006 22:00	1.0						
057	146_057	BLANK	QC341193	113730	Water	27-MAY-2006 22:43	1.0	0.025	7		1	>ac	1:BZ_205=70.0234
058	146_058	BS	QC341194	113730	Water	27-MAY-2006 23:26	1.0	0.025	35		1	>ac	23:BZ_189=65.3965

Stds used: 1=S3525 2=S3539 3=S3251 4=S3524 5=S3511 6=S3294 7=S3295 8=S3296 9=S3297 10=S3298 11=S3299 12=S3512 13=S3307
Flags used: >=closing ac=average CCV drift out

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SEQUENCE SUMMARY FOR 187020 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 256211044 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 26-MAY-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6
Analytical Method: EPA 8082 SOP Version: 8082_congeners_rv0

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
059	146_059	BSD	QC341195	113730	Water	28-MAY-2006 00:09	1.0	0.025	37		1	>ac	22:BZ_189=60.9963
060	146_060	SAMPLE	186873-001	113730	Water	28-MAY-2006 00:52	1.0	0.02427	7		1	>ac	1:BZ_205=54.7154
061	146_061	SAMPLE	186873-002	113730	Water	28-MAY-2006 01:35	1.0	0.02358	7		1	>ac	1:BZ_205=64.0095
062	146_062	SAMPLE	186873-004	113730	Water	28-MAY-2006 02:18	1.0	0.02381	7		1	>ac	1:BZ_205=72.1383
063	146_063	SAMPLE	186873-005	113730	Water	28-MAY-2006 03:01	1.0	0.02381	7		1	>ac	1:BZ_205=55.9154
064	146_064	SAMPLE	186894-001	113730	Water	28-MAY-2006 03:44	1.0	0.02381	7		1	>ac	1:BZ_205=64.0058
065	146_065	SAMPLE	186894-003	113730	Water	28-MAY-2006 04:27	1.0	0.02381	7		1	>ac	1:BZ_205=56.4528
066	146_066	X	hex			28-MAY-2006 05:10	1.0						
067	146_067	X	cong_10			28-MAY-2006 05:53	1.0	1.0			1	9 ac	
068	146_068	CCV	cong_10			28-MAY-2006 06:36	1.0	1.0	30		1	9 ac	
069	146_069	X	hex			28-MAY-2006 07:19	1.0						

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Stds used: 1=S3525 2=S3539 3=S3251 4=S3524 5=S3511 6=S3294 7=S3295 8=S3296 9=S3297 10=S3298 11=S3299 12=S3512 13=S3307
Flags used: >=closing ac=average CCV drift out

SEQUENCE SUMMARY FOR 187020 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 256216664 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 30-MAY-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	150_001	X	hex			30-MAY-2006 11:04	1.0						
002	150_002	X	pcb500_100			30-MAY-2006 11:31	1.0					1	
003	150_003	CCV	pcb500_100			30-MAY-2006 11:57	1.0	1.0	2		1	1	
004	150_004	X	ccv			30-MAY-2006 12:27	1.0					1	
005	150_005	SAMPLE	186880-003	113670	Soil	30-MAY-2006 12:54	5.0						
006	150_006	SAMPLE	186880-004	113670	Soil	30-MAY-2006 13:20	2.0	0.6689	3		1		2:PCB126=1277.06
007	150_007	LCS	QC341361	113769	Soil	30-MAY-2006 13:46	1.0	0.8361	2	3	1		
008	150_008	LCS	QC341493	113804	Soil	30-MAY-2006 14:13	1.0	0.6625	2	3	1		
009	150_009	BLANK	QC341528	113812	Water	30-MAY-2006 14:39	1.0	0.025		1	1		
010	150_010	BS	QC341529	113812	Water	30-MAY-2006 15:05	1.0	0.025	2	5	1		
011	150_011	BSD	QC341530	113812	Water	30-MAY-2006 15:32	1.0	0.025	2	5	1		
012	150_012	SAMPLE	186880-003	113670	Soil	30-MAY-2006 16:32	10.0	0.677	2		1		1:PCB126=1207.48
013	150_013	X	hex			30-MAY-2006 16:58	1.0						
014	150_014	CCV	pcb250_50			30-MAY-2006 17:25	1.0	1.0	2		1	2	
015	150_015	X	ccv			30-MAY-2006 17:51	1.0					2	
016	150_016	X	hex			30-MAY-2006 18:17	1.0						
017	150_017	SAMPLE	186993-002	113769	Soil	30-MAY-2006 18:44	1.0	0.835	1	1	1		
018	150_018	SAMPLE	186993-003	113769	Soil	30-MAY-2006 19:10	1.0	0.8347	1	1	1		
019	150_019	SAMPLE	186993-004	113769	Soil	30-MAY-2006 19:36	1.0	0.8372	1		1		
020	150_020	SAMPLE	186993-005	113769	Soil	30-MAY-2006 20:03	1.0	0.8375	1		1		
021	150_021	SAMPLE	186993-006	113769	Soil	30-MAY-2006 20:29	1.0	0.8381	1	1	1		
022	150_022	SAMPLE	186993-007	113769	Soil	30-MAY-2006 20:56	1.0	0.8381	1	1	1		
023	150_023	SAMPLE	186993-008	113769	Soil	30-MAY-2006 21:22	1.0	0.8361	1	1	1		
024	150_024	SAMPLE	186993-009	113769	Soil	30-MAY-2006 21:48	1.0	0.8333	1	1	1		
025	150_025	SAMPLE	186993-010	113769	Soil	30-MAY-2006 22:15	1.0	0.8336		1	1		
026	150_026	SAMPLE	186866-037	113597	Soil	30-MAY-2006 22:41	1.0	0.6667			1		
027	150_027	X	hex			30-MAY-2006 23:07	1.0						
028	150_028	CCV	pcb750_150			30-MAY-2006 23:33	1.0	1.0	3		1	3	4:PCB126=1057.19
029	150_029	X	ccv			31-MAY-2006 00:00	1.0					3	
030	150_030	X	hex			31-MAY-2006 00:26	1.0						
031	150_031	SAMPLE	186866-038	113597	Soil	31-MAY-2006 00:53	1.0	0.6645	1		1		

Stds used: 1=S3524 2=S3525 3=S3511

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SEQUENCE SUMMARY FOR 187020 PCBS Water
Curtis & Tompkins Laboratories

Sequence: 256216664 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 30-MAY-2006
Analytical Method: EPA 8082 SOP Version: 8082_rv.6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	150_032	SAMPLE	186866-039	113597	Soil	31-MAY-2006 01:19	1.0	0.6711			1		
033	150_033	SAMPLE	186866-040	113597	Soil	31-MAY-2006 01:45	1.0	0.6673	1		1		
034	150_034	MS	QC341362	113769	Soil	31-MAY-2006 02:12	1.0	0.8353	2	2	1		
035	150_035	MSD	QC341363	113769	Soil	31-MAY-2006 02:38	1.0	0.8353	2	2	1		
036	150_036	X	hex			31-MAY-2006 03:06	1.0						
037	150_037	X	pcb500_100			31-MAY-2006 03:33	1.0					1	
038	150_038	CCV	pcb500_100			31-MAY-2006 03:59	1.0	1.0	1		1	1	

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Stds used: 1=S3524 2=S3525 3=S3511

REPORTING SUMMARY FOR 187020 PCBS Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
187020-017	Aroclor-1016	GC22	A	05/27/06 09:43
187020-017	Aroclor-1221	GC22	A	05/27/06 09:43
187020-017	Aroclor-1232	GC22	A	05/27/06 09:43
187020-017	Aroclor-1242	GC22	A	05/27/06 09:43
187020-017	Aroclor-1248	GC22	A	05/27/06 09:43
187020-017	Aroclor-1254	GC22	A	05/27/06 09:43
187020-017	Aroclor-1260	GC22	A	05/27/06 09:43
187020-017	TCMX	GC22	A	05/27/06 09:43
187020-017	Decachlorobiphenyl	GC22	A	05/27/06 09:43
QC341528	Aroclor-1016	GC22	A	05/30/06 14:39
QC341528	Aroclor-1221	GC22	A	05/30/06 14:39
QC341528	Aroclor-1232	GC22	A	05/30/06 14:39
QC341528	Aroclor-1242	GC22	A	05/30/06 14:39
QC341528	Aroclor-1248	GC22	A	05/30/06 14:39
QC341528	Aroclor-1254	GC22	A	05/30/06 14:39
QC341528	Aroclor-1260	GC22	A	05/30/06 14:39
QC341528	TCMX	GC22	A	05/30/06 14:39
QC341528	Decachlorobiphenyl	GC22	A	05/30/06 14:39
QC341529	Aroclor-1016	GC22	A	05/30/06 15:05
QC341529	Aroclor-1260	GC22	A	05/30/06 15:05
QC341529	TCMX	GC22	A	05/30/06 15:05
QC341529	Decachlorobiphenyl	GC22	A	05/30/06 15:05
QC341530	Aroclor-1016	GC22	A	05/30/06 15:32
QC341530	Aroclor-1260	GC22	A	05/30/06 15:32
QC341530	TCMX	GC22	A	05/30/06 15:32
QC341530	Decachlorobiphenyl	GC22	A	05/30/06 15:32

Curtis & Tompkins Laboratories **Sample Preparation Summary** **26-MAY-2006 12:28**

Batch Number : 113812
Date Extracted: 25-MAY-2006
Extracted by : Daniel L. McGee
Prep Method : 3520C

Analysis : PCB
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S3509B
Spike #2 ID : S3311A
Spike #3 ID :
SOP Version : PCB_w_rv7

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
186986-118		Tetra Tech EMI	Water	1060	mL	25	0.023585	1	5	.05	0		PCB	3665A	
187005-082		Tetra Tech EMI	Water	1050	mL	25	0.023810	1	5	.05	0		PCB	3665A	
187005-083		Tetra Tech EMI	Water	1060	mL	25	0.023585	1	5	.05	0		PCB	3665A	
187005-084		Tetra Tech EMI	Water	1040	mL	25	0.024038	1	5	.05	0		PCB	3665A	
187020-017		Treadwell & Rollo	Water	1060	mL	25	0.023585	1	6	.05	0		PCB	3665A	
187034-126		Tetra Tech EMI	Water	1010	mL	25	0.024752	1	5	.05	0		PCB	3665A	
187034-127		Tetra Tech EMI	Water	1010	mL	25	0.024752	1	5	.05	0		PCB	3665A	
187034-128		Tetra Tech EMI	Water	1030	mL	25	0.024272	1	5	.05	0		PCB	3665A	
QC341528	BLANK		Water	1000	mL	25	0.025000	1		.05	0		PCB	3665A	
QC341529	BS		Water	1000	mL	25	0.025000	1		.05	.05		PCB	3665A	
QC341530	BSD		Water	1000	mL	25	0.025000	1		.05	.05		PCB	3665A	

Prep Chemist: Dan McGee Reviewed By: K Lilly Date: 27 MAY 06

Relinquished By: Julie [illegible] Received By: [illegible] Date: 5/[illegible]

Curtis & Tompkins, Ltd

PCB WATER PREP LOG

LIMS Batch No: 113812
LIMS Analysis: PCB
Extracted by: DLM
Date Extracted: 5/25/06

Extraction Method:
☐ EPA 3510c Sep. Funnel
☑ EPA 3520c Continuous L/L
☐ Other _____

BK 2231
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Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Comments
186986-118A	1060	5	25.00	
187005-082	1050			
-083	1060			
-084	1040			
187020-017H	1060	6		
187034-126A	1010	5		
-127				
-128	1030			
MB QC341528	1000	NA		
BS 29				
BSD 30				

JLM 5/26/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.05 mL of surrogate solution was added to all samples	S3509B	DLM 5/25/06
0.05 mL of spike solution AR 16/60 was added to all spikes	S3311A	
☑ Samples were continuously extracted with about 450 mL CH_2Cl_2	EM 46110	
Extraction Start Time:	1530	
Extraction End Time:	0930	JLM 5/26/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	N/A	
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM45091549	
Concentrated to volumes noted above after 2x exchange w/ Hexane lot#	CP633	
EPA 3665A Clean-up: Vortexed w/ 10mL H_2SO_4 lot #	EM44104	
Centrifuged for 1min; 10mL transferred to labelled vial	✓	

Dan McGr 5/25/06
Extraction Chemist **Date**

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Contined from Page ___
Continued on Page ___

Kelly 27 MAY 06
Reviewed by **Date**

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8082 Water
As of 06/19/06

Analyte	Units	GC06 A	GC06 B	GC22 A	GC22 B	GC25 A	GC25 B
Aroclor-1016	ug/L	0.054	0.054	0.058	0.029	0.11	0.12
Aroclor-1221	ug/L	0.31	0.29	0.41	0.33	0.37	0.63
Aroclor-1232	ug/L	0.11	0.088	0.19	0.34	0.16	0.087
Aroclor-1242	ug/L	0.15	0.16	0.24	0.22	0.14	0.15
Aroclor-1248	ug/L	0.30	0.34	0.097	0.061	0.038	0.051
Aroclor-1254	ug/L	0.086	0.11	0.11	0.14	0.12	0.13
Aroclor-1260	ug/L	0.079	0.14	0.059	0.037	0.097	0.12

POLYAROMATIC HYDROCARBONS

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	BB1PZ101	Batch#:	113927
Lab ID:	187020-014	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	ug/L	Prepared:	05/30/06
Diln Fac:	1.000	Analyzed:	06/02/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.99	
Acenaphthylene	ND	2.0	
Acenaphthene	ND	0.99	
Fluorene	ND	0.99	
Phenanthrene	ND	0.50	
Anthracene	ND	0.50	0.02
Fluoranthene	ND	0.40	0.01
Pyrene	ND	0.20	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	89	65-135
1-Methylnaphthalene (F)	91	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	BB1PZ100	Batch#:	113927
Lab ID:	187020-015	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	ug/L	Prepared:	05/30/06
Diln Fac:	1.000	Analyzed:	06/02/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.98	
Acenaphthylene	ND	2.0	
Acenaphthene	ND	0.98	
Fluorene	ND	0.98	
Phenanthrene	ND	0.49	
Anthracene	ND	0.49	0.02
Fluoranthene	ND	0.39	0.01
Pyrene	ND	0.20	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	93	65-135
1-Methylnaphthalene (F)	95	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	LF6GW103	Batch#:	113811
Lab ID:	187020-017	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	ug/L	Prepared:	05/25/06
Diln Fac:	1.000	Analyzed:	05/26/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.02
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	69	65-135
1-Methylnaphthalene (F)	70	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	LF6GW104	Batch#:	113811
Lab ID:	187020-018	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	ug/L	Prepared:	05/25/06
Diln Fac:	1.000	Analyzed:	05/26/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.02
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	86	65-135
1-Methylnaphthalene (F)	88	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	LF6GW106	Batch#:	113811
Lab ID:	187020-020	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	ug/L	Prepared:	05/25/06
Diln Fac:	1.000	Analyzed:	05/26/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.02
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	91	65-135
1-Methylnaphthalene (F)	93	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC341525	Batch#:	113811
Matrix:	Water	Prepared:	05/25/06
Units:	ug/L	Analyzed:	05/26/06

Analyte	Result	RL	MDL
Naphthalene	ND	1.0	
Acenaphthylene	ND	2.0	
Acenaphthene	ND	1.0	
Fluorene	ND	1.0	
Phenanthrene	ND	0.50	
Anthracene	ND	0.50	0.02
Fluoranthene	ND	0.40	0.01
Pyrene	ND	0.20	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	95	65-135
1-Methylnaphthalene (F)	99	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC341988	Batch#:	113927
Matrix:	Water	Prepared:	05/30/06
Units:	ug/L	Analyzed:	06/02/06

Analyte	Result	RL	MDL
Naphthalene	ND	1.0	
Acenaphthylene	ND	2.0	
Acenaphthene	ND	1.0	
Fluorene	ND	1.0	
Phenanthrene	ND	0.50	
Anthracene	ND	0.50	0.02
Fluoranthene	ND	0.40	0.01
Pyrene	ND	0.20	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	86	65-135
1-Methylnaphthalene (F)	88	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Matrix:	Water	Batch#:	113811
Units:	ug/L	Prepared:	05/25/06
Diln Fac:	1.000	Analyzed:	05/26/06

Type: BS Lab ID: QC341526

Analyte	Spiked	Result	%REC	Limits
Naphthalene	10.00	9.437	94	50-135
Fluorene	2.000	1.913	96	65-135
Pyrene	1.000	0.9746	97	65-135
Benzo(a)pyrene	1.000	0.9792	98	65-135

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	94	65-135
1-Methylnaphthalene (F)	98	65-135

Type: BSD Lab ID: QC341527

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Naphthalene	10.00	9.253	93	50-135	2	35
Fluorene	2.000	1.880	94	65-135	2	35
Pyrene	1.000	0.9665	97	65-135	1	35
Benzo(a)pyrene	1.000	0.9635	96	65-135	2	35

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	94	65-135
1-Methylnaphthalene (F)	97	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Matrix:	Water	Batch#:	113927
Units:	ug/L	Prepared:	05/30/06
Diln Fac:	1.000	Analyzed:	06/02/06

Type: BS Lab ID: QC341989

Analyte	Spiked	Result	%REC	Limits
Naphthalene	10.00	8.377	84	50-135
Fluorene	2.000	1.761	88	65-135
Pyrene	1.000	0.8905	89	65-135
Benzo(a)pyrene	1.000	0.8906	89	65-135

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	84	65-135
1-Methylnaphthalene (F)	86	65-135

Type: BSD Lab ID: QC341990

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Naphthalene	10.00	8.792	88	50-135	5	35
Fluorene	2.000	1.856	93	65-135	5	35
Pyrene	1.000	0.9116	91	65-135	2	35
Benzo(a)pyrene	1.000	0.9262	93	65-135	4	35

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	90	65-135
1-Methylnaphthalene (F)	92	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 8310

Inst : HPLC04
Calnum: 296199754001
Units : ug/L

Date : 18-MAY-2006 19:52
X Axis: R

mcs 5/23/06

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	13800006	296199754006		18-MAY-2006 19:52	S3065
L2	13800007	296199754007		18-MAY-2006 20:24	S3064
L3	13800008	296199754008		18-MAY-2006 20:56	S3063
L4	13800009	296199754009		18-MAY-2006 21:27	S3062
L5	13800010	296199754010		18-MAY-2006 21:59	S3061
L6	13800011	296199754011		18-MAY-2006 22:31	S3060
L7	13800012	296199754012		18-MAY-2006 23:02	S3059

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Naphthalene	1	0.0127	0.0132	0.0131	0.0132	0.0131	0.0130	0.0129	LINR	-52.228	77.4002		0.0130	1.000	0.99	20	
Acenaphthylene	1	0.0092	0.0093	0.0094	0.0095	0.0094	0.0092	0.0091	LINR	-269.75	109.800		0.0093	1.000	0.99	20	
2-Methylnaphthalene	1	0.0119	0.0120	0.0119	0.0122	0.0120	0.0119		LINR	-40.069	84.0456		0.0120	1.000	0.99	20	
Acenaphthene	1	0.0052	0.0052	0.0052	0.0054	0.0053	0.0052	0.0051	LINR	-189.44	195.810		0.0052	1.000	0.99	20	
Fluorene	1	0.0627	0.0624	0.0622	0.0635	0.0628	0.0627	0.0625	LINR	-5.8158	16.0057		0.0627	1.000	0.99	20	
Phenanthrene	1	0.1770	0.1795	0.1810	0.1828	0.1804	0.1795	0.1796	LINR	-2.6724	5.57221		0.1800	1.000	0.99	20	
Anthracene	1	0.4152	0.4253	0.4257	0.4310	0.4281	0.4249	0.4232	LINR	-4.5965	2.36313		0.4248	1.000	0.99	20	
Fluoranthene	1	0.0412	0.0411	0.0410	0.0412	0.0406	0.0406	0.0407	LINR	-3.4660	24.6116		0.0409	1.000	0.99	20	
Pyrene	1	0.0368	0.0344	0.0333	0.0343	0.0336	0.0336	0.0338	LINR	-0.0362	29.6394		0.0342	1.000	0.99	20	
Benzo(a)anthracene	1	0.0900	0.0968	0.0940	0.0956	0.0948	0.0945	0.0948	LINR	0.57638	10.5497		0.0943	1.000	0.99	20	
Chrysene	1	0.1270	0.1360	0.1344	0.1356	0.1346	0.1336	0.1335	LINR	-3.4437	7.49542		0.1335	1.000	0.99	20	
Benzo(b)fluoranthene	1	0.1037	0.1043	0.1063	0.1075	0.1067	0.1065	0.1063	LINR	-2.9110	9.40726		0.1059	1.000	0.99	20	
Benzo(k)fluoranthene	1	0.0788	0.0790	0.0823	0.0837	0.0837	0.0836	0.0835	LINR	1.73999	11.9711		0.0821	1.000	0.99	20	
Benzo(a)pyrene	1	0.0878	0.0823	0.0860	0.0884	0.0876	0.0881	0.0886	LINR	6.09778	11.2895		0.0870	1.000	0.99	20	
Dibenz(a,h)anthracene	1	0.0186	0.0202	0.0213	0.0218	0.0220	0.0221	0.0223	LINR	23.8574	44.7933		0.0212	1.000	0.99	20	
Benzo(g,h,i)perylene	1	0.0317	0.0340	0.0353	0.0359	0.0358	0.0363	0.0368	LINR	28.4784	27.1931		0.0351	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	1	0.0880	0.0965	0.0978	0.1005	0.0999	0.1003	0.1005	LINR	4.90163	9.94487		0.0976	1.000	0.99	20	
1-Methylnaphthalene (UV)	1	0.0086	0.0086	0.0086	0.0087	0.0085	0.0084	0.0084	LINR	-341.04	119.464		0.0085	1.000	0.99	20	
Acenaphthylene	2	0.0277	0.0280	0.0280	0.0283	0.0280	0.0278	0.0278	LINR	-84.965	36.0430		0.0279	1.000	0.99	20	
1-Methylnaphthalene (UV)	2	0.0030	0.0031	0.0031	0.0031	0.0031	0.0030	0.0030	LINR	-288.17	330.724		0.0031	1.000	0.99	20	
Naphthalene	3	0.0110	0.0111	0.0111	0.0112	0.0110	0.0110	0.0109	LINR	-50.394	91.4049		0.0110	1.000	0.99	20	
2-Methylnaphthalene	3	0.0155	0.0155	0.0155	0.0157	0.0155	0.0153		LINR	-54.966	65.4368		0.0155	1.000	0.99	20	
Acenaphthene	3	0.0234	0.0236	0.0235	0.0239	0.0233	0.0231	0.0226	LINR	-178.43	44.2064		0.0233	1.000	0.99	20	
Fluorene	3	0.1279	0.1273	0.1274	0.1284	0.1265	0.1243	0.1225	LINR	-32.341	8.16717		0.1263	1.000	0.99	20	
Phenanthrene	3	0.1354	0.1366	0.1364	0.1377	0.1361	0.1356	0.1354	LINR	-3.3588	7.38874		0.1362	1.000	0.99	20	
Anthracene	3	0.4199	0.4224	0.4266	0.4322	0.4290	0.4269	0.4268	LINR	-1.7330	2.34358		0.4263	1.000	0.99	20	

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Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Fluoranthene	3	0.0382	0.0384	0.0386	0.0392	0.0388	0.0387	0.0387	LINR	-1.5194	25.8283		0.0387	1.000	0.99	20	
Pyrene	3	0.1308	0.1311	0.1332	0.1355	0.1333	0.1340	0.1343	LINR	1.83815	7.44901		0.1332	1.000	0.99	20	
Benzo(a)anthracene	3	0.1489	0.1515	0.1523	0.1536	0.1520	0.1512	0.1508	LINR	-3.9150	6.63150		0.1515	1.000	0.99	20	
Chrysene	3	0.1787	0.1811	0.1815	0.1828	0.1806	0.1793	0.1780	LINR	-7.8225	5.62009		0.1803	1.000	0.99	20	
Benzo(b)fluoranthene	3	0.0628	0.0642	0.0647	0.0654	0.0646	0.0644	0.0641	LINR	-9.1941	15.6059		0.0643	1.000	0.99	20	
Benzo(k)fluoranthene	3	0.3857	0.3920	0.3949	0.3978	0.3926	0.3879	0.3820	LINR	-13.766	2.61710		0.3904	1.000	0.99	20	
Benzo(a)pyrene	3	0.2089	0.2127	0.2141	0.2165	0.2143	0.2129	0.2128	LINR	-3.0160	4.70028		0.2132	1.000	0.99	20	
Dibenz(a,h)anthracene	3	0.0303	0.0301	0.0308	0.0318	0.0315	0.0316	0.0317	LINR	9.18553	31.5065		0.0311	1.000	0.99	20	
Benzo(g,h,i)perylene	3	0.0608	0.0590	0.0602	0.0618	0.0617	0.0624	0.0631	LINR	24.3223	15.8303		0.0613	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	3	0.0962	0.0968	0.0965	0.0983	0.0975	0.0975	0.0971	LINR	-1.8455	10.2902		0.0971	1.000	0.99	20	
1-Methylnaphthalene (F)	3	0.0122	0.0123	0.0123	0.0124	0.0122	0.0120	0.0118	LINR	-661.87	84.7083		0.0122	1.000	0.99	20	

CJm 22 MAY 2006

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Instrument amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

296199754001

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Calibration Table

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NEW ICAL FOLLOWING REPLACEMENT OF UV LAMP. JM 22MAY2006

HPLC04 METHOD 8310

Mean 8/23/06

Calib. Data Modified : 5/22/2006 4:16:03 PM

Calculate : External Standard
Based on : Peak Area

Rel. Reference Window : 1.000 %
Abs. Reference Window : 0.200 min
Rel. Non-ref. Window : 1.000 %
Abs. Non-ref. Window : 0.250 min
Do not use Multiplier & Dilution Factor with ISTDs
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Signal 1: DAD1 A, Sig=254,4 Ref=480,80
Signal 2: DAD1 B, Sig=305,4 Ref=480,80
Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
4.752	1	1	500.00000	6.35383	78.69275			Naphthalene
		2	1000.00000	13.15704	76.00496			
		3	2500.00000	32.77972	76.26668			
		4	5000.00000	66.00784	75.74857			
		5	1.00000e4	130.71696	76.50116			
		6	2.50000e4	323.77454	77.21423			
		7	5.00000e4	646.40033	77.35145			
4.790	3	1	500.00000	5.48376	91.17835			Naphthalene
		2	1000.00000	11.08296	90.22864			
		3	2500.00000	27.68407	90.30465			
		4	5000.00000	55.85367	89.51963			
		5	1.00000e4	110.44406	90.54357			
		6	2.50000e4	274.47531	91.08287			
		7	5.00000e4	547.22638	91.36986			
6.004	1	1	1000.00000	9.18307	108.89603			Acenaphthylene
		2	2000.00000	18.68859	107.01715			
		3	5000.00000	46.93712	106.52549			
		4	1.00000e4	94.78723	105.49944			
		5	2.00000e4	187.08742	106.90190			
		6	5.00000e4	462.20984	108.17598			
		7	1.00000e5	910.50854	109.82873			
6.005	2	1	1000.00000	27.65381	36.16138			Acenaphthylene
		2	2000.00000	56.04304	35.68686			
		3	5000.00000	140.16672	35.67181			

Method G:\HPLC4\METHODS\8310-138.M

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		4	1.00000e4	282.77841	35.36338			
		5	2.00000e4	559.61334	35.73896			
		6	5.00000e4	1390.57104	35.95645			
		7	1.00000e5	2775.66528	36.02740			
6.773	1	1	2000.00000	17.19066	116.34227			1-Methylnaphthalene (UV)
		2	4000.00000	34.41462	116.22969			
		3	1.00000e4	85.94093	116.35899			
		4	2.00000e4	173.09207	115.54544			
		5	4.00000e4	340.84924	117.35394			
		6	1.00000e5	839.48529	119.12061			
		7	2.00000e5	1676.38977	119.30400			
6.774	2	1	2000.00000	6.06443	329.79188			1-Methylnaphthalene (UV)
		2	4000.00000	12.31411	324.83055			
		3	1.00000e4	30.67977	325.94769			
		4	2.00000e4	61.92251	322.98433			
		5	4.00000e4	122.83121	325.65012			
		6	1.00000e5	304.35931	328.55903			
		7	2.00000e5	604.82648	330.67335			
6.811	3	1	2000.00000	24.40978	81.93437			1-Methylnaphthalene (F)
		2	4000.00000	49.21495	81.27612			
		3	1.00000e4	122.94567	81.33674			
		4	2.00000e4	247.30377	80.87220			
		5	4.00000e4	488.69351	81.85089			
		6	1.00000e5	1199.20923	83.38828			
		7	2.00000e5	2361.67969	84.68549			
7.233	1	1	500.00000	5.96680	83.79698			2-Methylnaphthalene
		2	1000.00000	11.99022	83.40130			
		3	2500.00000	29.85911	83.72654			
		4	5000.00000	60.88431	82.12296			
		5	1.00000e4	120.14920	83.22985			
		6	2.50000e4	297.53644	84.02332			
7.269	3	1	500.00000	7.74911	64.52351			2-Methylnaphthalene
		2	1000.00000	15.52372	64.41757			
		3	2500.00000	38.81281	64.41172			
		4	5000.00000	78.28068	63.87272			
		5	1.00000e4	154.78474	64.60585			
		6	2.50000e4	382.29327	65.39482			
7.613	1	1	500.00000	2.59693	192.53514			Acenaphthene
		2	1000.00000	5.17957	193.06637			
		3	2500.00000	13.08239	191.09658			
		4	5000.00000	26.89059	185.93866			
		5	1.00000e4	53.03941	188.53907			
		6	2.50000e4	131.16444	190.60043			
		7	5.00000e4	254.87729	196.17283			
7.651	3	1	500.00000	11.70526	42.71583			Acenaphthene
		2	1000.00000	23.56936	42.42797			
		3	2500.00000	58.84945	42.48128			
		4	5000.00000	119.32713	41.90162			
		5	1.00000e4	233.17419	42.88639			
		6	2.50000e4	577.51837	43.28867			
		7	5.00000e4	1130.49866	44.22827			
8.138	1	1	100.00000	6.27447	15.93759			Fluorene
		2	200.00000	12.48572	16.01830			
		3	500.00000	31.10701	16.07355			
		4	1000.00000	63.54686	15.73642			
		5	2000.00000	125.67238	15.91440			
		6	5000.00000	313.25665	15.96135			
		7	1.00000e4	624.78467	16.00551			
8.176	3	1	100.00000	12.79477	7.81570			Fluorene
		2	200.00000	25.46982	7.85243			
		3	500.00000	63.67719	7.85210			
		4	1000.00000	128.43744	7.78589			
		5	2000.00000	252.91112	7.90792			

Method G:\HPLC4\METHODS\8310-138.M

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		6	5000.00000	621.43634	8.04588			
		7	1.00000e4	1224.89038	8.16400			
9.260	1	1	50.00000	8.85156	5.64872			Phenanthrene
		2	100.00000	17.94612	5.57224			
		3	250.00000	45.25932	5.52372			
		4	500.00000	91.37579	5.47191			
		5	1000.00000	180.36794	5.54422			
		6	2500.00000	448.64795	5.57230			
		7	5000.00000	897.85052	5.56886			
9.297	3	1	50.00000	6.77231	7.38301			Phenanthrene
		2	100.00000	13.66179	7.31969			
		3	250.00000	34.08815	7.33393			
		4	500.00000	68.83022	7.26425			
		5	1000.00000	136.09827	7.34763			
		6	2500.00000	338.96707	7.37535			
		7	5000.00000	676.96960	7.38586			
10.285	1	1	50.00000	20.75930	2.40856			Anthracene
		2	100.00000	42.52945	2.35131			
		3	250.00000	106.41690	2.34925			
		4	500.00000	215.48436	2.32035			
		5	1000.00000	428.09290	2.33594			
		6	2500.00000	1062.12512	2.35377			
		7	5000.00000	2115.98950	2.36296			
10.323	3	1	50.00000	20.99740	2.38125			Anthracene
		2	100.00000	42.23863	2.36750			
		3	250.00000	106.64105	2.34431			
		4	500.00000	216.08749	2.31388			
		5	1000.00000	428.97952	2.33111			
		6	2500.00000	1067.30798	2.34234			
		7	5000.00000	2133.87500	2.34316			
11.435	1	1	100.00000	4.12269	24.25600			Fluoranthene
		2	200.00000	8.21146	24.35620			
		3	500.00000	20.48045	24.41353			
		4	1000.00000	41.23911	24.24883			
		5	2000.00000	81.15630	24.64380			
		6	5000.00000	203.07642	24.62127			
		7	1.00000e4	406.56757	24.59616			
11.472	3	1	100.00000	3.82083	26.17234			Fluoranthene
		2	200.00000	7.68846	26.01302			
		3	500.00000	19.30645	25.89808			
		4	1000.00000	39.23374	25.48827			
		5	2000.00000	77.62599	25.76457			
		6	5000.00000	193.25951	25.87195			
		7	1.00000e4	387.35989	25.81579			
12.208	1	1	50.00000	1.83995	27.17468			Pyrene
		2	100.00000	3.43952	29.07386			
		3	250.00000	8.33079	30.00916			
		4	500.00000	17.14116	29.16955			
		5	1000.00000	33.56740	29.79081			
		6	2500.00000	83.91055	29.79363			
		7	5000.00000	168.92415	29.59908			
12.245	3	1	50.00000	6.53807	7.64751			Pyrene
		2	100.00000	13.11404	7.62541			
		3	250.00000	33.29245	7.50921			
		4	500.00000	67.75372	7.37967			
		5	1000.00000	133.33412	7.49996			
		6	2500.00000	334.87701	7.46543			
		7	5000.00000	671.27612	7.44850			
15.039	1	1	50.00000	4.49803	11.11598			Benzo(a)anthracene
		2	100.00000	9.67921	10.33142			
		3	250.00000	23.48936	10.64311			
		4	500.00000	47.78680	10.46314			
		5	1000.00000	94.79131	10.54949			

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		6	2500.00000	236.18423	10.58496			
		7	5000.00000	474.20624	10.54394			
15.077	3	1	50.00000	7.44724	6.71390			Benzo(a)anthracene
		2	100.00000	15.15430	6.59879			
		3	250.00000	38.07673	6.56569			
		4	500.00000	76.80959	6.50960			
		5	1000.00000	151.99316	6.57924			
		6	2500.00000	377.89438	6.61561			
		7	5000.00000	754.23340	6.62925			
15.539	1	1	50.00000	6.35061	7.87325			Chrysene
		2	100.00000	13.59609	7.35506			
		3	250.00000	33.59677	7.44119			
		4	500.00000	67.79062	7.37565			
		5	1000.00000	134.58353	7.43033			
		6	2500.00000	334.09467	7.48291			
		7	5000.00000	667.30255	7.49285			
15.577	3	1	50.00000	8.93709	5.59467			Chrysene
		2	100.00000	18.11283	5.52095			
		3	250.00000	45.37164	5.51005			
		4	500.00000	91.38473	5.47137			
		5	1000.00000	180.56219	5.53826			
		6	2500.00000	448.13257	5.57871			
		7	5000.00000	889.81403	5.61915			
17.772	1	1	100.00000	10.36747	9.64555			Benzo(b)fluoranthene
		2	200.00000	20.85804	9.58863			
		3	500.00000	53.17228	9.40340			
		4	1000.00000	107.52938	9.29978			
		5	2000.00000	213.44913	9.36991			
		6	5000.00000	532.37317	9.39191			
		7	1.00000e4	1062.87402	9.40845			
17.810	3	1	100.00000	6.27574	15.93439			Benzo(b)fluoranthene
		2	200.00000	12.83850	15.57814			
		3	500.00000	32.34958	15.45615			
		4	1000.00000	65.39377	15.29198			
		5	2000.00000	129.20119	15.47973			
		6	5000.00000	322.01157	15.52739			
		7	1.00000e4	640.72485	15.60732			
18.726	1	1	50.00000	3.94109	12.68686			Benzo(k)fluoranthene
		2	100.00000	7.89588	12.66483			
		3	250.00000	20.57043	12.15337			
		4	500.00000	41.83699	11.95115			
		5	1000.00000	83.72203	11.94429			
		6	2500.00000	208.88004	11.96859			
		7	5000.00000	417.35922	11.98009			
18.764	3	1	50.00000	19.28471	2.59273			Benzo(k)fluoranthene
		2	100.00000	39.20409	2.55075			
		3	250.00000	98.73430	2.53205			
		4	500.00000	198.87831	2.51410			
		5	1000.00000	392.59399	2.54716			
		6	2500.00000	969.84100	2.57774			
		7	5000.00000	1910.04431	2.61774			
19.676	1	1	50.00000	4.38903	11.39205			Benzo(a)pyrene
		2	100.00000	8.22974	12.15105			
		3	250.00000	21.51167	11.62160			
		4	500.00000	44.20454	11.31105			
		5	1000.00000	87.60189	11.41528			
		6	2500.00000	220.13969	11.35643			
		7	5000.00000	442.77490	11.29242			
19.714	3	1	50.00000	10.44253	4.78811			Benzo(a)pyrene
		2	100.00000	21.26584	4.70238			
		3	250.00000	53.53555	4.66979			
		4	500.00000	108.22565	4.61998			
		5	1000.00000	214.33957	4.66549			

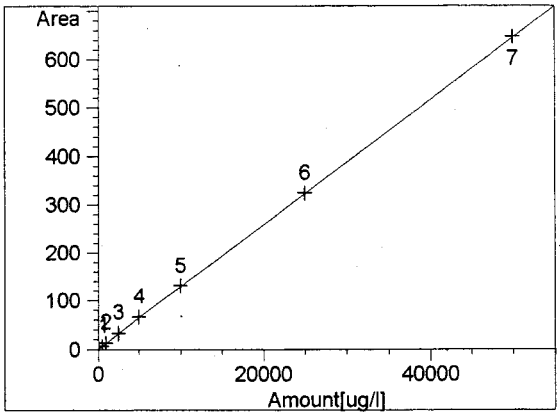
Method G:\HPLC4\METHODS\8310-138.M

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		6	2500.00000	532.33307	4.69631			
		7	5000.00000	1064.23083	4.69823			
21.294	1	1	100.00000	1.86005	53.76185			Dibenz(a,h)anthracene
		2	200.00000	4.03761	49.53425			
		3	500.00000	10.67297	46.84733			
		4	1000.00000	21.81421	45.84168			
		5	2000.00000	44.01789	45.43607			
		6	5000.00000	110.60422	45.20623			
		7	1.00000e4	222.97006	44.84907			
21.332	3	1	100.00000	3.03149	32.98710			Dibenz(a,h)anthracene
		2	200.00000	6.02086	33.21784			
		3	500.00000	15.37518	32.51994			
		4	1000.00000	31.83378	31.41317			
		5	2000.00000	63.06483	31.71339			
		6	5000.00000	158.06801	31.63195			
		7	1.00000e4	317.26797	31.51910			
22.074	1	1	100.00000	3.17288	31.51711			Benzo(g,h,i)perylene
		2	200.00000	6.79410	29.43731			
		3	500.00000	17.66954	28.29729			
		4	1000.00000	35.90152	27.85397			
		5	2000.00000	71.56614	27.94618			
		6	5000.00000	181.34886	27.57117			
		7	1.00000e4	367.56784	27.20586			
22.111	3	1	100.00000	6.08162	16.44298			Benzo(g,h,i)perylene
		2	200.00000	11.79889	16.95075			
		3	500.00000	30.11854	16.60107			
		4	1000.00000	61.84187	16.17027			
		5	2000.00000	123.34122	16.21518			
		6	5000.00000	312.19437	16.01566			
		7	1.00000e4	631.46387	15.83622			
22.588	1	1	50.00000	4.39845	11.36763			Indeno(1,2,3-cd)pyrene
		2	100.00000	9.64680	10.36613			
		3	250.00000	24.43922	10.22946			
		4	500.00000	50.25140	9.94997			
		5	1000.00000	99.94793	10.00521			
		6	2500.00000	250.73134	9.97083			
		7	5000.00000	502.34595	9.95330			
22.626	3	1	50.00000	4.81022	10.39454			Indeno(1,2,3-cd)pyrene
		2	100.00000	9.68046	10.33008			
		3	250.00000	24.11350	10.36764			
		4	500.00000	49.15816	10.17125			
		5	1000.00000	97.53080	10.25317			
		6	2500.00000	243.71762	10.25777			
		7	5000.00000	485.73682	10.29364			

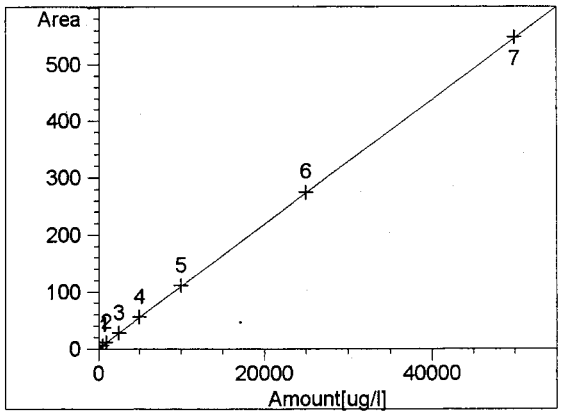
Peak Sum Table

No Entries in table

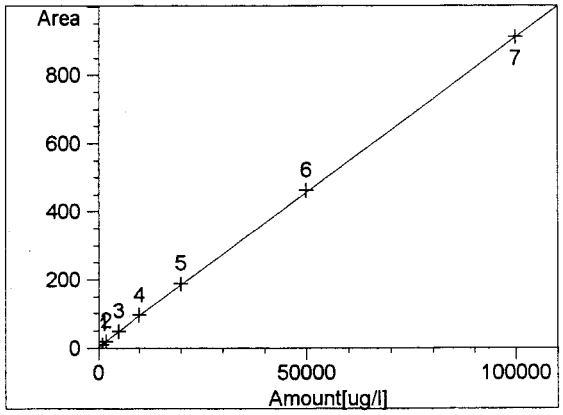
Calibration Curves



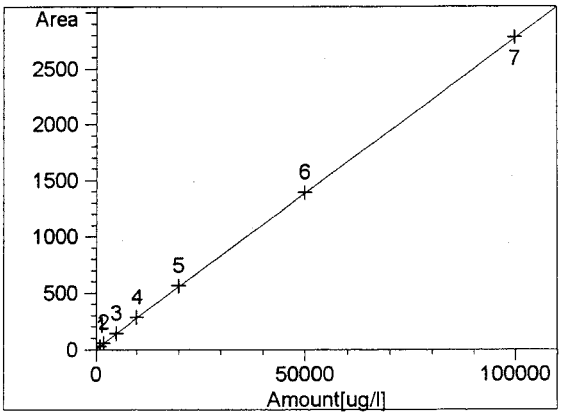
Naphthalene at exp. RT: 4.752
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.65900
Formula: y = mx + b
m: 1.29199e-2
b: 6.74777e-1
x: Amount[ug/l]
y: Area



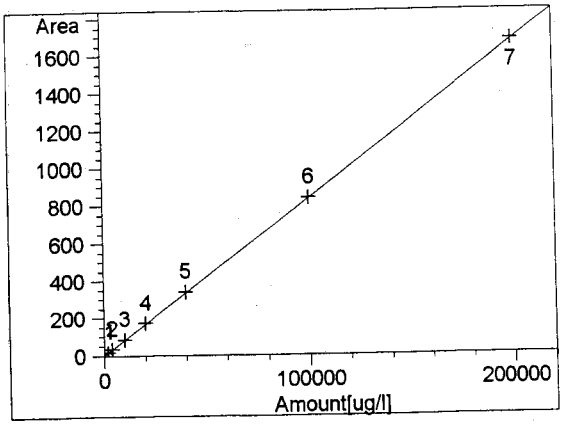
Naphthalene at exp. RT: 4.790
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.52793
Formula: y = mx + b
m: 1.09403e-2
b: 5.51329e-1
x: Amount[ug/l]
y: Area



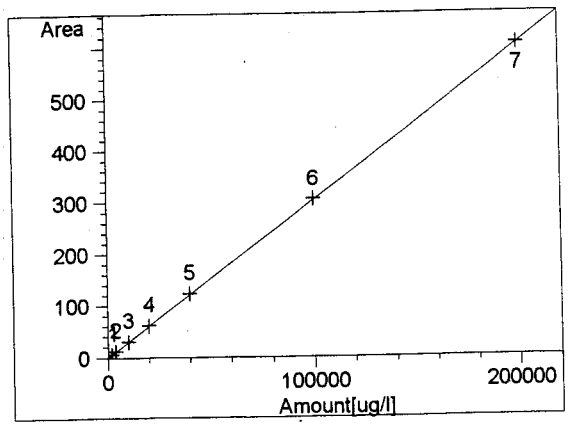
Acenaphthylene at exp. RT: 6.004
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 2.99661
Formula: y = mx + b
m: 9.10747e-3
b: 2.45677
x: Amount[ug/l]
y: Area



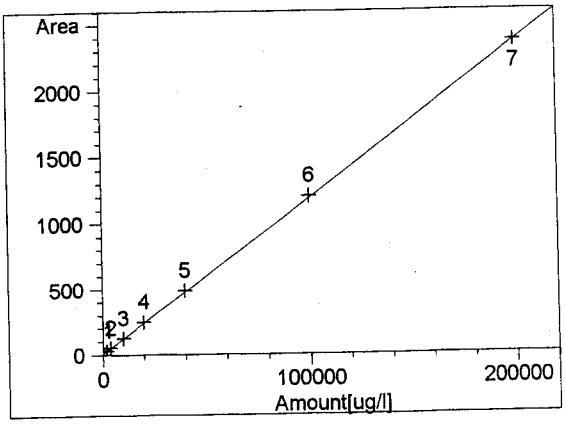
Acenaphthylene at exp. RT: 6.005
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 2.31582
Formula: y = mx + b
m: 2.77446e-2
b: 2.35731
x: Amount[ug/l]
y: Area



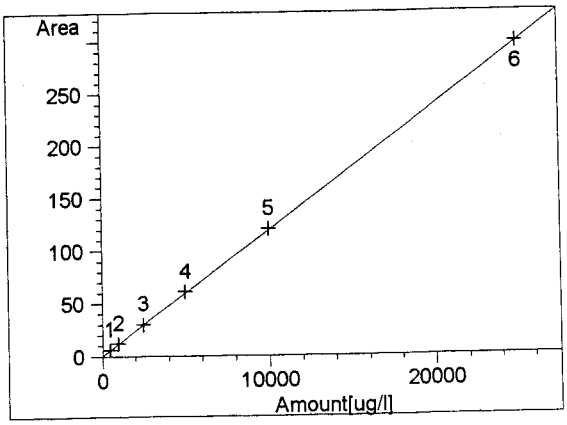
1-Methylnaphthalene (UV) at exp. RT: 6.773
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 2.38438
Formula: y = mx + b
m: 8.37069e-3
b: 2.85473
x: Amount[ug/l]
y: Area



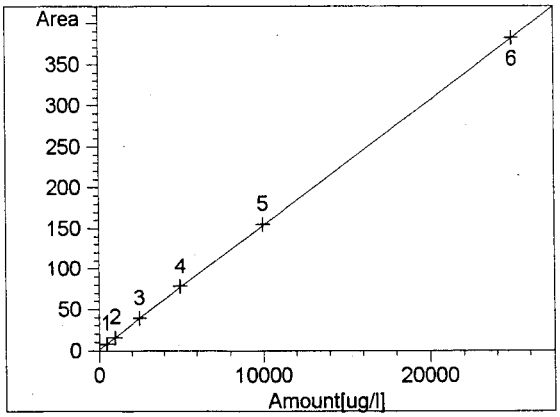
1-Methylnaphthalene (UV) at exp. RT: 6.774
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.95514
Formula: y = mx + b
m: 3.02367e-3
b: 8.71326e-1
x: Amount[ug/l]
y: Area



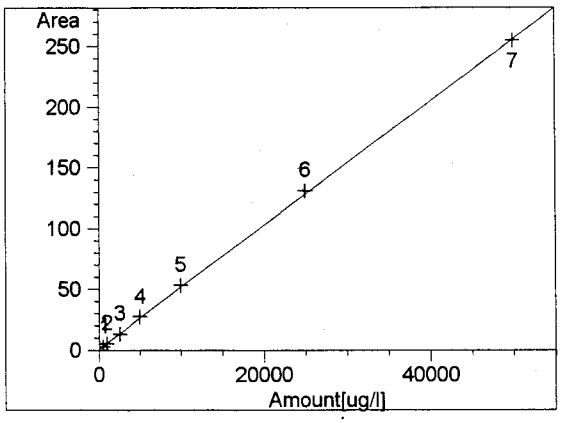
1-Methylnaphthalene (F) at exp. RT: 6.811
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 8.34271
Formula: y = mx + b
m: 1.18052e-2
b: 7.81357
x: Amount[ug/l]
y: Area



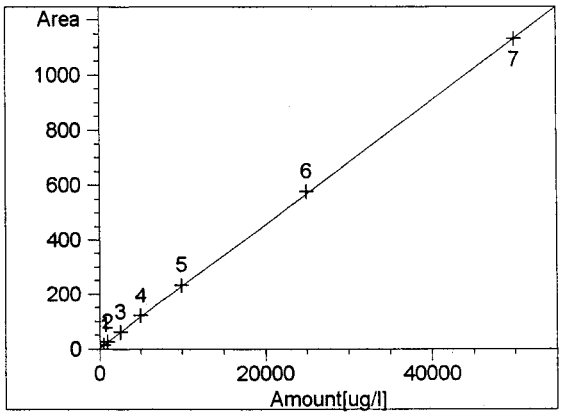
2-Methylnaphthalene at exp. RT: 7.233
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.70066
Formula: y = mx + b
m: 1.18983e-2
b: 4.76749e-1
x: Amount[ug/l]
y: Area



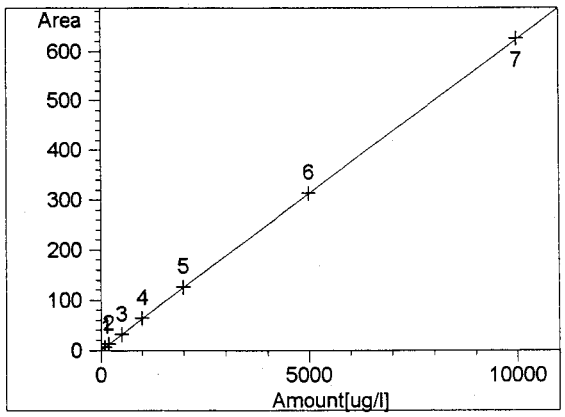
2-Methylnaphthalene at exp. RT: 7.269
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99998
Residual Std. Dev.: 0.95275
Formula: y = mx + b
m: 1.52819e-2
b: 8.39982e-1
x: Amount[ug/l]
y: Area



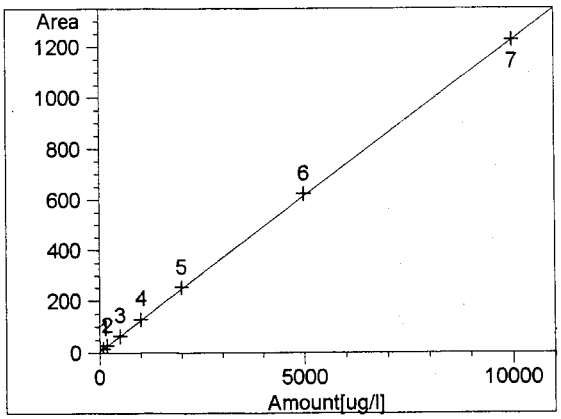
Acenaphthene at exp. RT: 7.613
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99989
Residual Std. Dev.: 1.52771
Formula: y = mx + b
m: 5.10700e-3
b: 9.67465e-1
x: Amount[ug/l]
y: Area



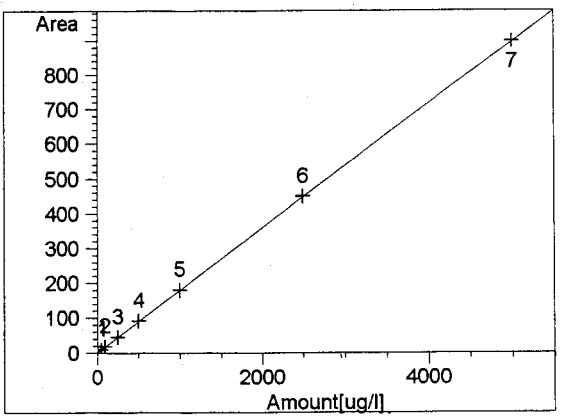
Acenaphthene at exp. RT: 7.651
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99994
Residual Std. Dev.: 4.97058
Formula: y = mx + b
m: 2.26212e-2
b: 4.03630
x: Amount[ug/l]
y: Area



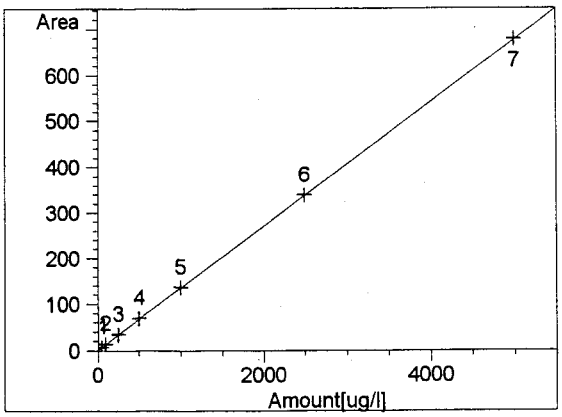
Fluorene at exp. RT: 8.138
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.54815
Formula: y = mx + b
m: 6.24779e-2
b: 3.63360e-1
x: Amount[ug/l]
y: Area



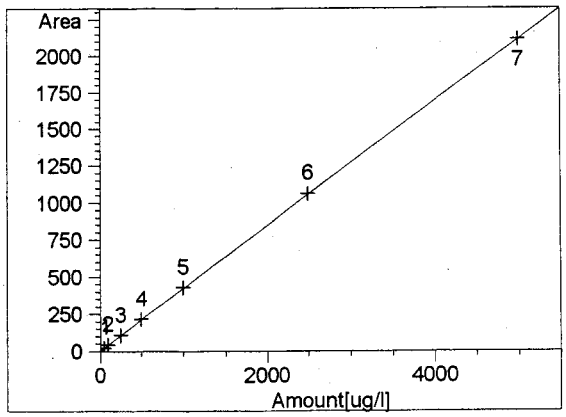
Fluorene at exp. RT: 8.176
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99997
Residual Std. Dev.: 4.08298
Formula: y = mx + b
m: 1.22441e-1
b: 3.95988
x: Amount[ug/l]
y: Area



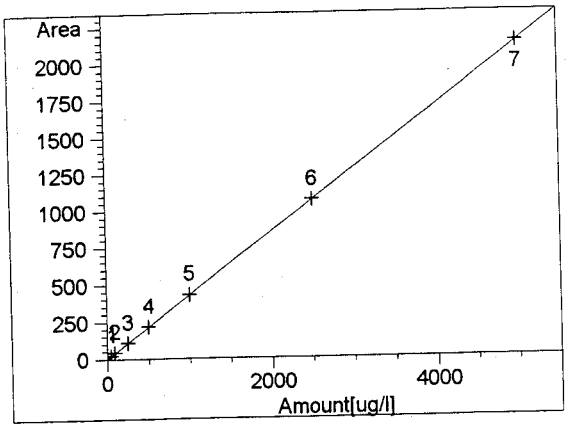
Phenanthrene at exp. RT: 9.260
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.68975
Formula: y = mx + b
m: 1.79462e-1
b: 4.79584e-1
x: Amount[ug/l]
y: Area



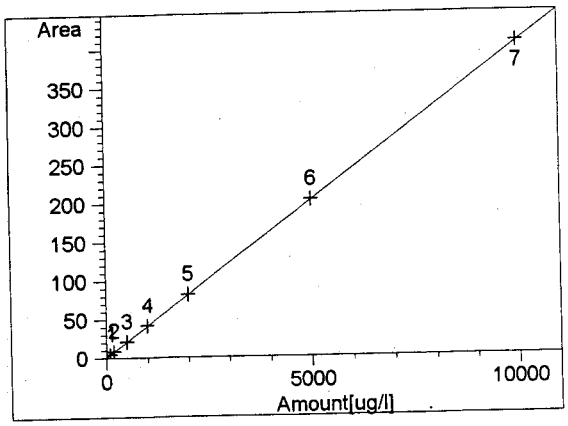
Phenanthrene at exp. RT: 9.297
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.44720
Formula: y = mx + b
m: 1.35341e-1
b: 4.54582e-1
x: Amount[ug/l]
y: Area



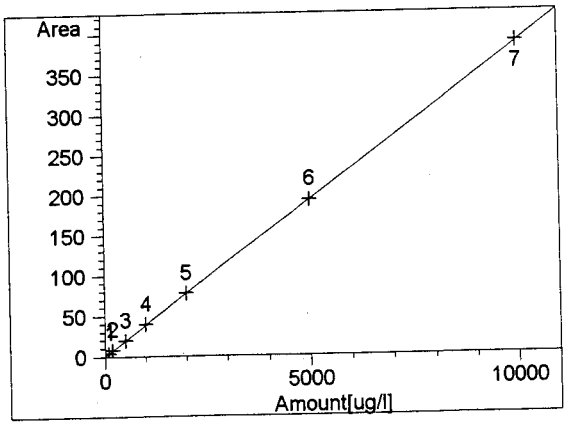
Anthracene at exp. RT: 10.285
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 2.50095
Formula: y = mx + b
m: 4.23168e-1
b: 1.94511
x: Amount[ug/l]
y: Area



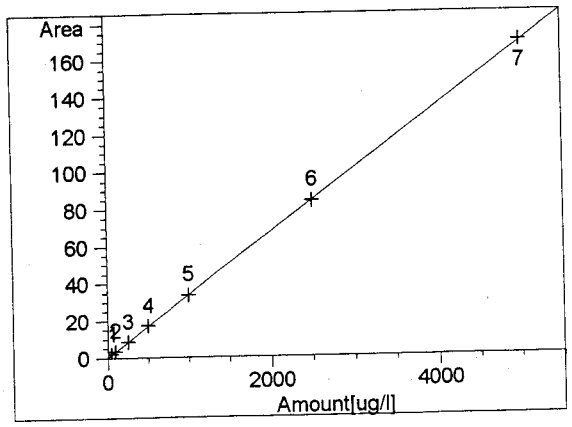
Anthracene at exp. RT: 10.323
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 1.38985
Formula: y = mx + b
m: 4.26697e-1
b: 7.39476e-1
x: Amount[ug/l]
y: Area



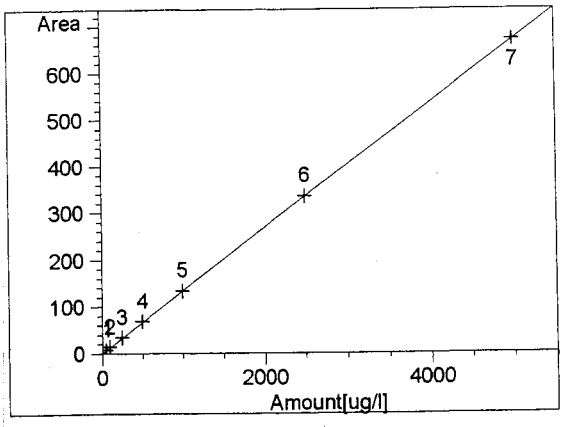
Fluoranthene at exp. RT: 11.435
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.26501
Formula: y = mx + b
m: 4.06313e-2
b: 1.40829e-1
x: Amount[ug/l]
y: Area



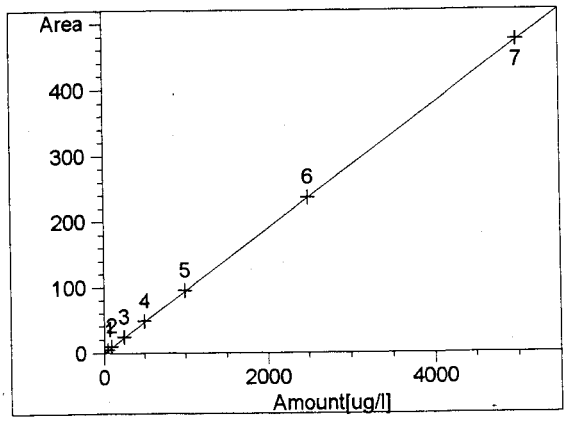
Fluoranthene at exp. RT: 11.472
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.29311
Formula: y = mx + b
m: 3.87172e-2
b: 5.88250e-2
x: Amount[ug/l]
y: Area



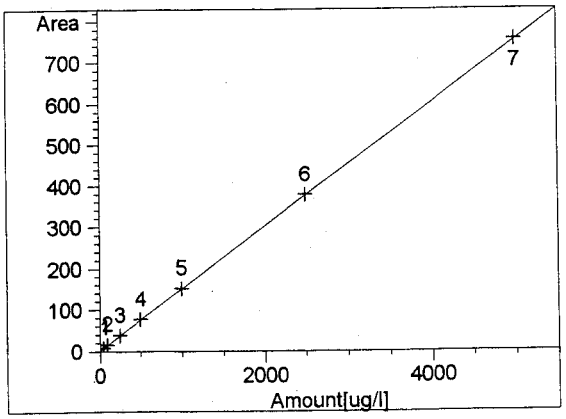
Pyrene at exp. RT: 12.208
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.27756
Formula: y = mx + b
m: 3.37388e-2
b: 1.22142e-3
x: Amount[ug/l]
y: Area



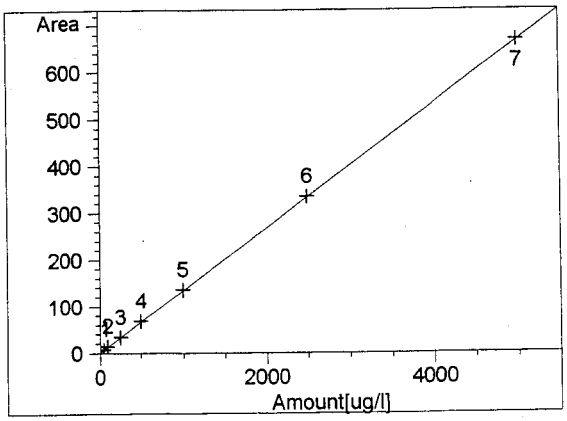
Pyrene at exp. RT: 12.245
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.55665
Formula: y = mx + b
m: 1.34246e-1
b: -2.46762e-1
x: Amount[ug/l]
y: Area



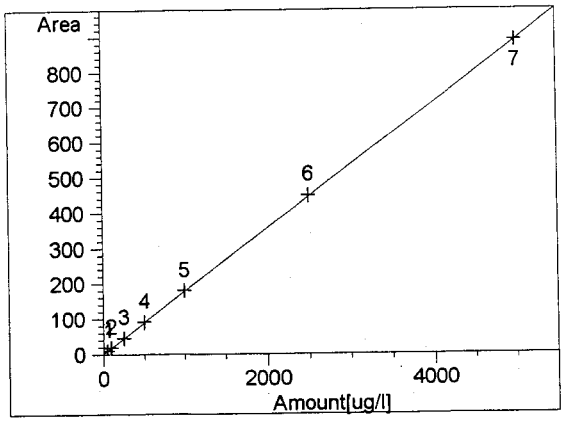
Benzo(a)anthracene at exp. RT: 15.039
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.43917
Formula: y = mx + b
m: 9.47891e-2
b: -5.46320e-2
x: Amount[ug/l]
y: Area



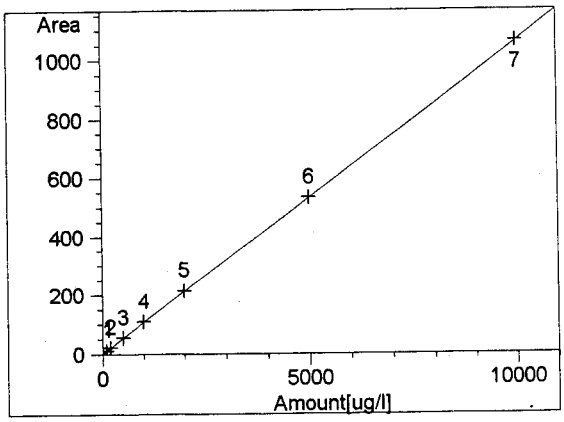
Benzo(a)anthracene at exp. RT: 15.077
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.63754
Formula: y = mx + b
m: 1.50795e-1
b: 5.90358e-1
x: Amount[ug/l]
y: Area



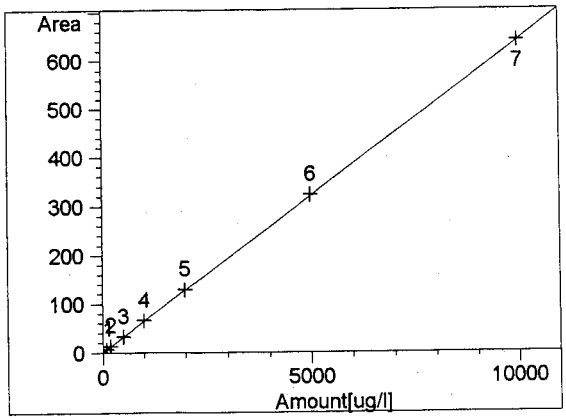
Chrysene at exp. RT: 15.539
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.57474
Formula: y = mx + b
m: 1.33415e-1
b: 4.59439e-1
x: Amount[ug/l]
y: Area



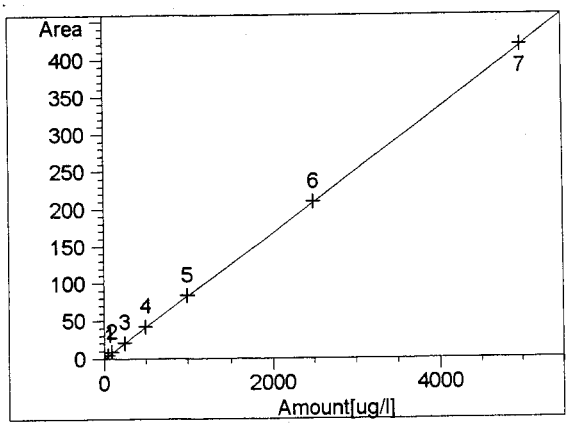
Chrysene at exp. RT: 15.577
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.48324
Formula: y = mx + b
m: 1.77933e-1
b: 1.39188
x: Amount[ug/l]
y: Area



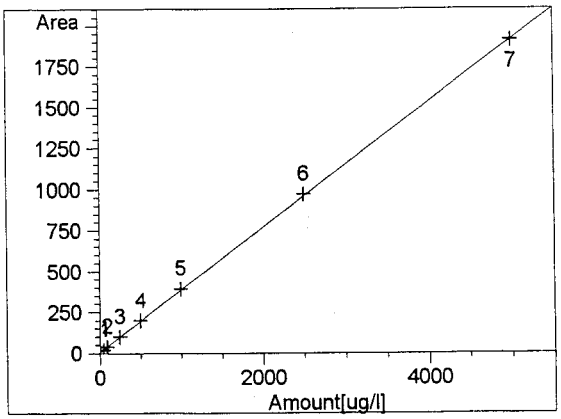
Benzo(b)fluoranthene at exp. RT: 17.772
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.71561
Formula: y = mx + b
m: 1.06301e-1
b: 3.09438e-1
x: Amount[ug/l]
y: Area



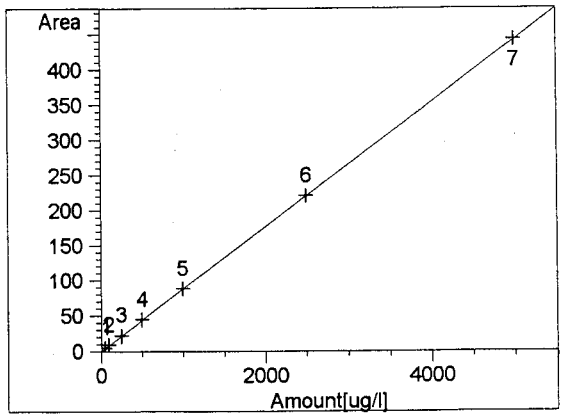
Benzo(b)fluoranthene at exp. RT: 17.810
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.79187
Formula: y = mx + b
m: 6.40783e-2
b: 5.89141e-1
x: Amount[ug/l]
y: Area



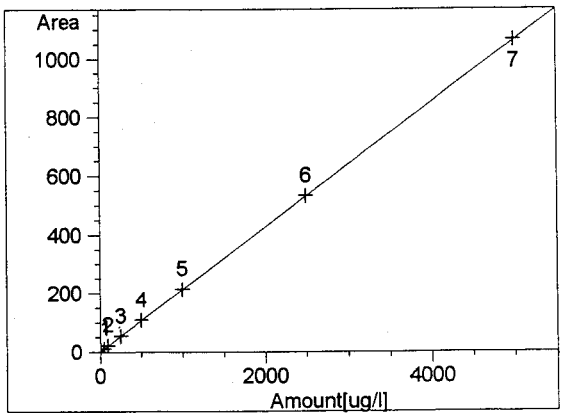
Benzo(k)fluoranthene at exp. RT: 18.726
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.26640
Formula: y = mx + b
m: 8.35344e-2
b: -1.45349e-1
x: Amount[ug/l]
y: Area



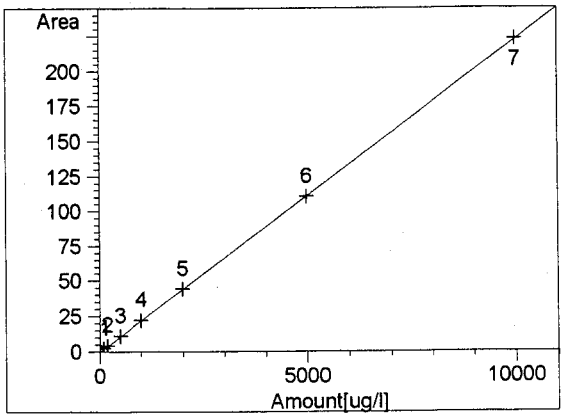
Benzo(k)fluoranthene at exp. RT: 18.764
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99997
Residual Std. Dev.: 6.35516
Formula: y = mx + b
m: 3.82102e-1
b: 5.25986
x: Amount[ug/l]
y: Area



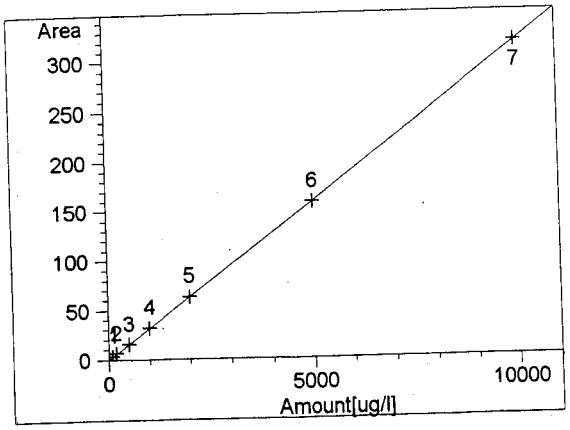
Benzo(a)pyrene at exp. RT: 19.676
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.53487
Formula: y = mx + b
m: 8.85779e-2
b: -5.40129e-1
x: Amount[ug/l]
y: Area



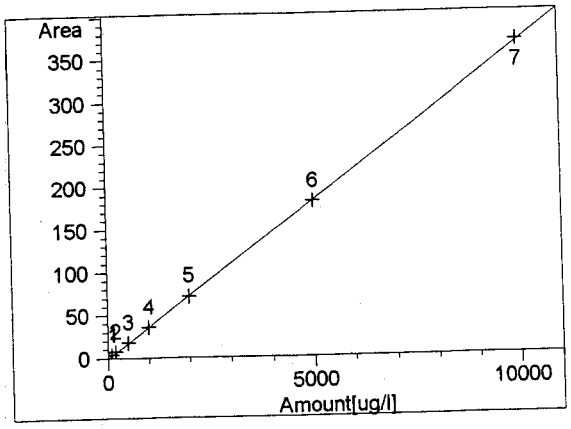
Benzo(a)pyrene at exp. RT: 19.714
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.85195
Formula: y = mx + b
m: 2.12753e-1
b: 6.41655e-1
x: Amount[ug/l]
y: Area



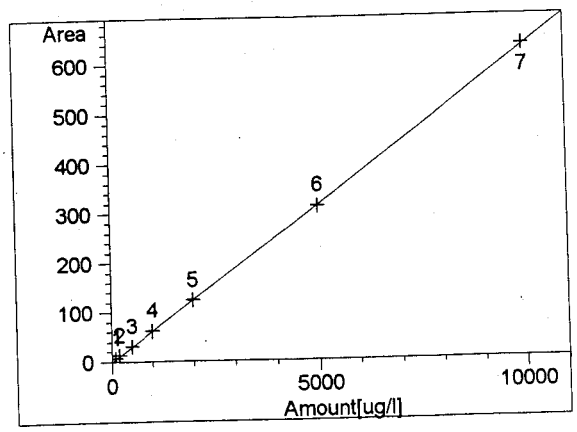
Dibenz(a,h)anthracene at exp. RT: 21.294
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.26499
Formula: y = mx + b
m: 2.23247e-2
b: -5.32610e-1
x: Amount[ug/l]
y: Area



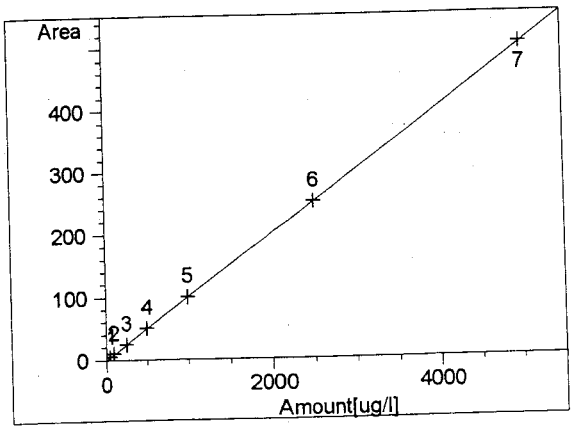
Dibenz(a,h)anthracene at exp. RT: 21.332
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.27198
Formula: y = mx + b
m: 3.17395e-2
b: -2.91544e-1
x: Amount[ug/l]
y: Area



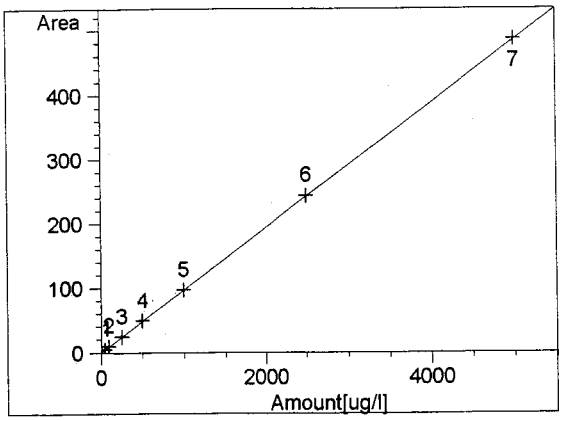
Benzo(g,h,i)perylene at exp. RT: 22.074
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.94681
Formula: y = mx + b
m: 3.67740e-2
b: -1.04727
x: Amount[ug/l]
y: Area



Benzo(g,h,i)perylene at exp. RT: 22.111
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99998
Residual Std. Dev.: 1.45280
Formula: y = mx + b
m: 6.31700e-2
b: -1.53644
x: Amount[ug/l]
y: Area



Indeno(1,2,3-cd)pyrene at exp. RT: 22.588
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.25692
Formula: y = mx + b
m: 1.00554e-1
b: -4.92879e-1
x: Amount[ug/l]
y: Area



Indeno(1,2,3-cd)pyrene at exp. RT: 22.626
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.41791
Formula: y = mx + b
m: 9.71800e-2
b: 1.79343e-1
x: Amount[ug/l]
y: Area

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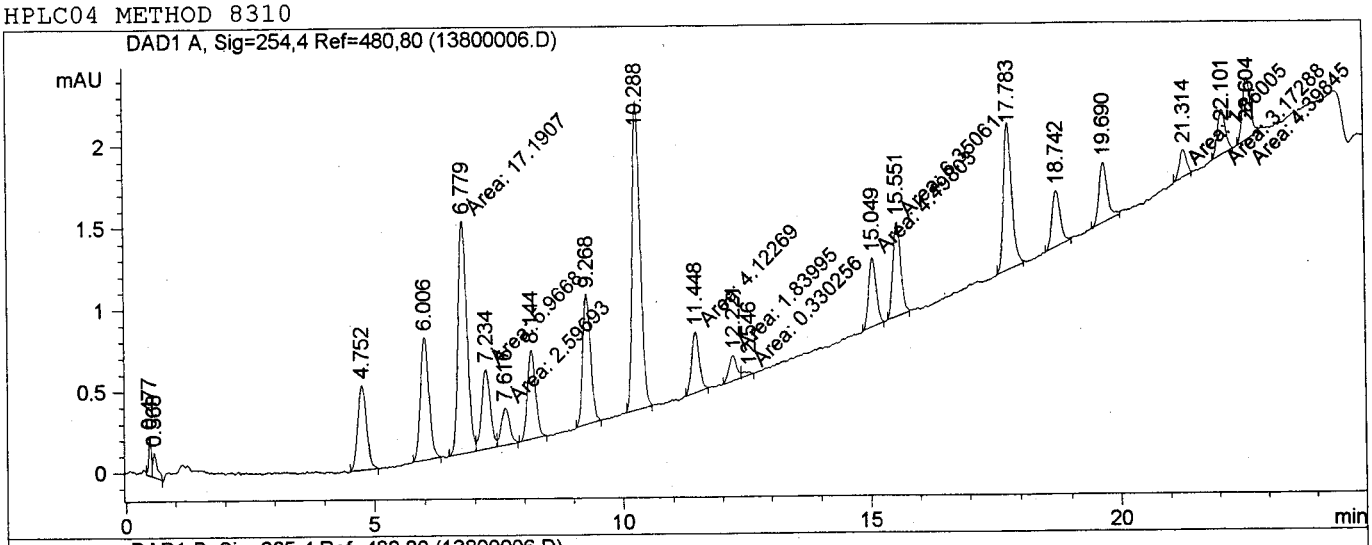
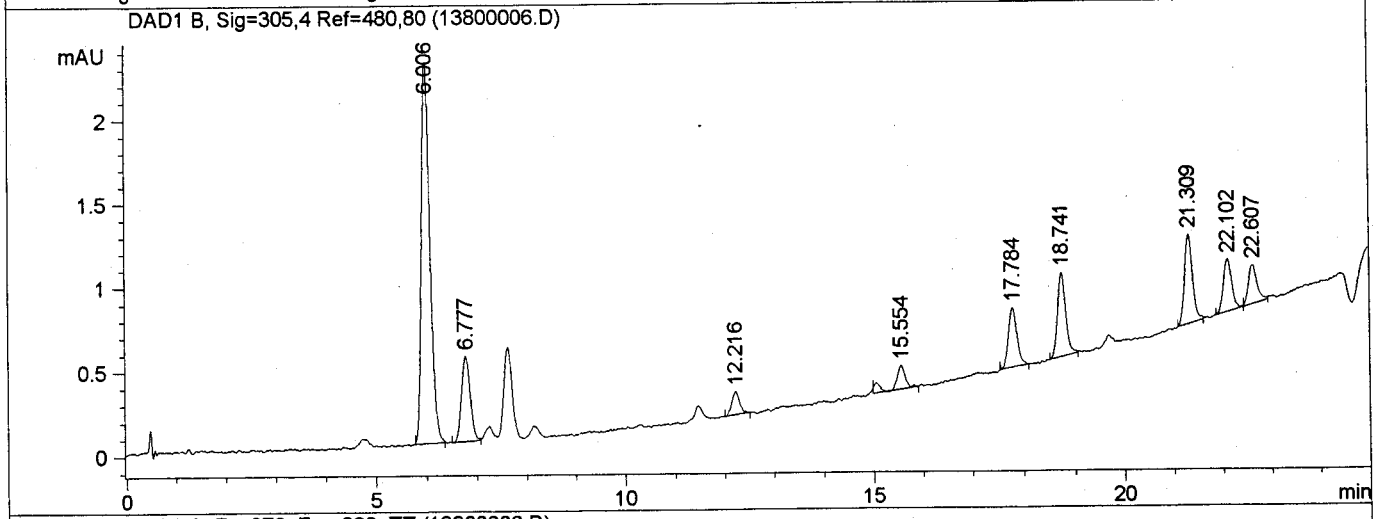
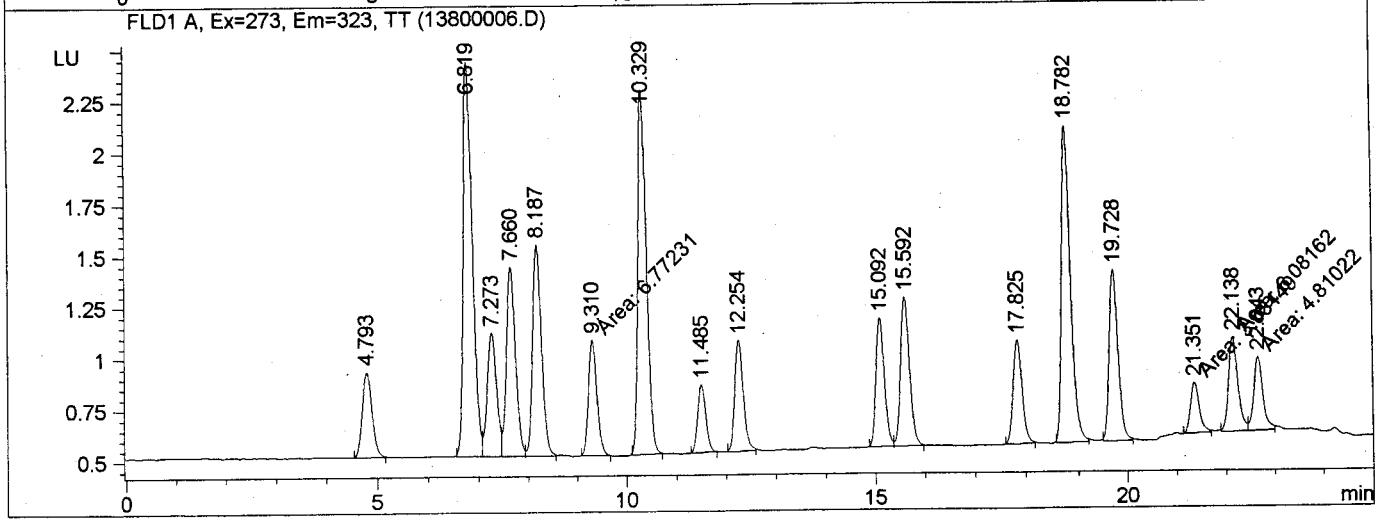
Injection Date : 5/18/2006 7:52:48 PM
Sample Name : ICAL,S3065
Acq. Operator :
Acq. Instrument : HPLC 4
Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL
HPLC04 METHOD 8310

Seq. Line : 6
Location : Vial 6
Inj : 1
Inj Volume : 10 µl







Jm 22MAY2006

External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.752	BP	6.35383	73.22840	465.28047		Naphthalene
6.006	BB	9.18307	86.07316	790.41598		Acenaphthylene
6.779	MF	17.19066	103.84860	1785.22554		1-Methylnaphthalene (UV)
7.234	MF	5.96680	80.69614	481.49793		2-Methylnaphthalene
7.616	FM	2.59693	167.38480	434.68637		Acenaphthene
8.144	VP	6.27447	15.44981	96.93942		Fluorene
9.268	BP	8.85156	5.43133	48.07574		Phenanthrene
10.288	BB	20.75930	2.30524	47.85517		Anthracene
11.448	MM	4.12269	25.48087	105.04978		Fluoranthene
12.221	MF	1.83995	34.43634	63.36108		Pyrene
15.049	MM	4.49803	12.28219	55.24568		Benzo(a)anthracene
15.551	MM	6.35061	7.91518	50.26628		Chrysene
17.783	BB	10.36747	9.89141	102.54895		Benzo(b)fluoranthene
18.742	PB	3.94109	14.59363	57.51478		Benzo(k)fluoranthene
19.690	PB	4.38903	13.34166	58.55689		Benzo(a)pyrene
21.314	MM	1.86005	61.87980	115.09983		Dibenz(a,h)anthracene
22.101	MM	3.17288	33.45332	106.14337		Benzo(g,h,i)perylene
22.604	MM	4.39845	12.46554	54.82910		Indeno(1,2,3-cd)pyrene
Totals :				4918.59235		

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.006	BB	27.65381	36.14769	999.62119		Acenaphthylene
6.777	PV	6.06443	308.61277	1871.56076		1-Methylnaphthalene (UV)
Totals :				2871.18195		

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.793	BB	5.48376	68.97480	378.24111		Naphthalene
6.819	BV	24.40978	59.67094	1456.55443		1-Methylnaphthalene (F)
7.273	VV	7.74911	55.20738	427.80829		2-Methylnaphthalene
7.660	VV	11.70526	36.25836	424.41367		Acenaphthene
8.187	VB	12.79477	6.28187	80.37502		Fluorene
9.310	MM	6.77231	5.92673	40.13766		Phenanthrene
10.329	BB	20.99740	2.31053	48.51518		Anthracene
11.485	BB	3.82083	23.80183	90.94271		Fluoranthene
12.254	BB	6.53807	7.19858	47.06487		Pyrene
15.092	BV	7.44724	6.41390	47.76587		Benzo(a)anthracene
15.592	VB	8.93709	4.83163	43.18071		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.825	BB	6.27574	14.89507	93.47751		Benzo(b)fluoranthene
18.782	BB	19.28471	2.18916	42.21724		Benzo(k)fluoranthene
19.728	BB	10.44253	4.30052	44.90832		Benzo(a)pyrene
21.351	MF	3.03149	36.12993	109.52744		Dibenz(a,h)anthracene
22.138	FM	6.08162	17.06152	103.76167		Benzo(g,h,i)perylene
22.643	MF	4.81022	11.56582	55.63411		Indeno(1,2,3-cd)pyrene
Totals :				3534.52582		

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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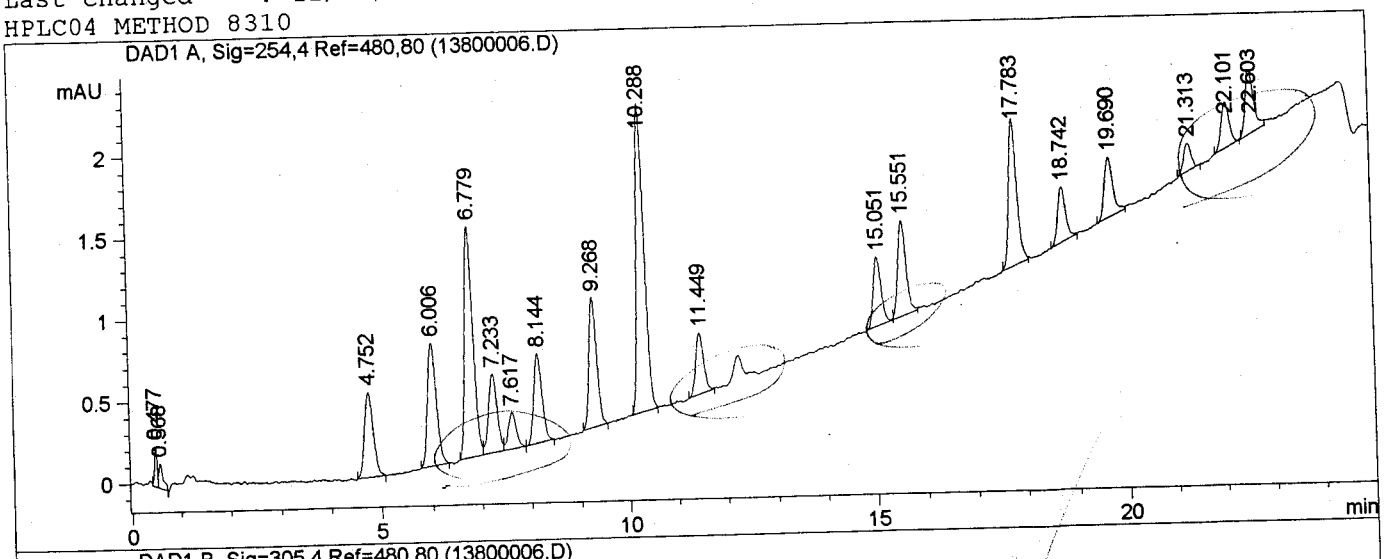
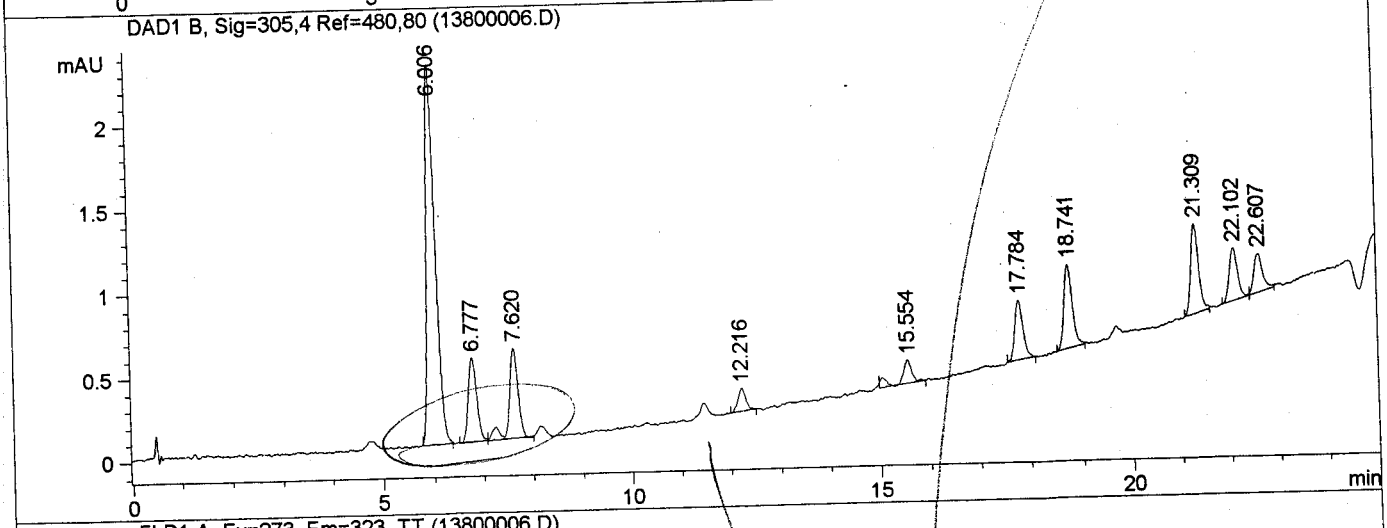
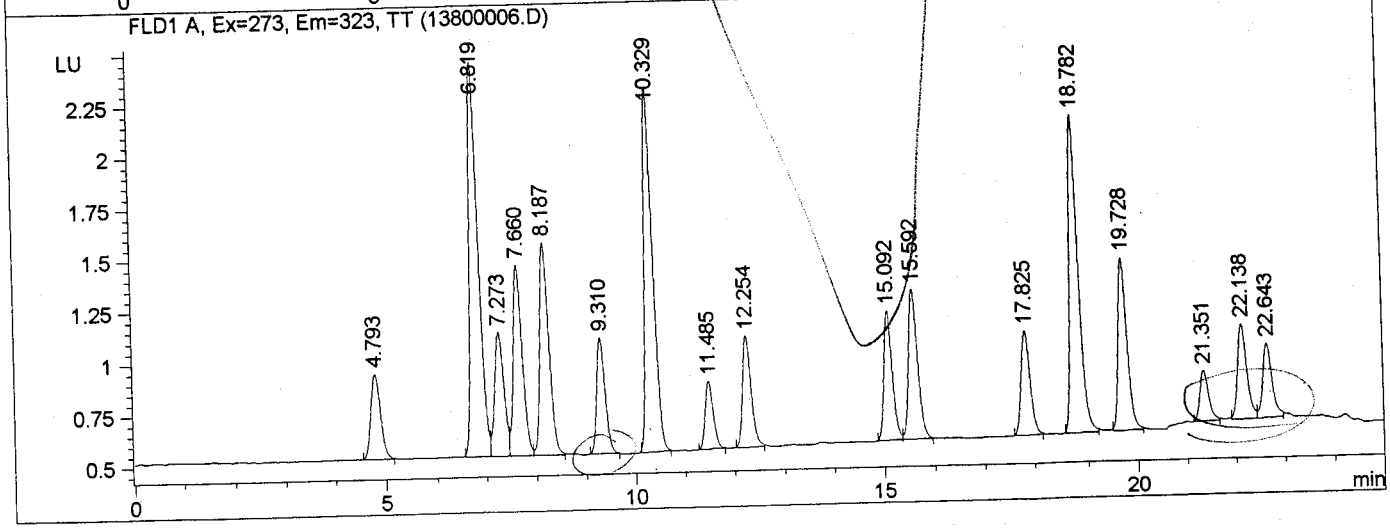
Injection Date : 5/18/2006 7:52:48 PM
Sample Name : ICAL,S3065
Acq. Operator :
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\051806.S
Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL

Seq. Line : 6
Location : Vial 6
Inj : 1
Inj Volume : 10 µl

HPLC04 METHOD 8310







External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.752	BP	6.35383	73.22840	465.28047		Naphthalene
6.006	BB	9.18307	86.07316	790.41598		Acenaphthylene
6.779	BV	16.96911	103.64911	1758.83363		1-Methylnaphthalene (UV)
7.233	VV	5.86789	80.58486	472.86303		2-Methylnaphthalene
7.617	VP	2.58632	167.24952	432.56006		Acenaphthene
8.144	VP	6.27447	15.44981	96.93942		Fluorene
9.268	BP	8.85156	5.43133	48.07574		Phenanthrene
10.288	BB	20.75930	2.30524	47.85517		Anthracene
11.449	BB	4.17647	25.46600	106.35808		Fluoranthene
12.274		-	-	-		Pyrene
15.051	PB	4.66044	12.23445	57.01786		Benzo(a)anthracene
15.551	BB	6.65766	7.89598	52.56868		Chrysene
17.783	BB	10.36747	9.89141	102.54895		Benzo(b)fluoranthene
18.742	PB	3.94109	14.59363	57.51478		Benzo(k)fluoranthene
19.690	PB	4.38903	13.34166	58.55689		Benzo(a)pyrene
21.313	BB	1.89148	61.62125	116.55565		Dibenz(a,h)anthracene
22.101	BB	3.27987	33.27520	109.13825		Benzo(g,h,i)perylene
22.603	BB	4.80412	12.29839	59.08288		Indeno(1,2,3-cd)pyrene

Totals : 4832.16552

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.006	BB	27.65381	36.14769	999.62119		Acenaphthylene
6.777	PV	6.06443	308.61277	1871.56076		1-Methylnaphthalene (UV)

Totals : 2871.18195

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.793	BB	5.48376	68.97480	378.24111		Naphthalene
6.819	BV	24.40978	59.67094	1456.55443		1-Methylnaphthalene (F)
7.273	VV	7.74911	55.20738	427.80829		2-Methylnaphthalene
7.660	VV	11.70526	36.25836	424.41367		Acenaphthene
8.187	VB	12.79477	6.28187	80.37502		Fluorene
9.310	BB	6.73184	5.91894	39.84533		Phenanthrene
10.329	BB	20.99740	2.31053	48.51518		Anthracene
11.485	BB	3.82083	23.80183	90.94271		Fluoranthene
12.254	BB	6.53807	7.19858	47.06487		Pyrene
15.092	BV	7.44724	6.41390	47.76587		Benzo(a)anthracene
15.592	VB	8.93709	4.83163	43.18071		Chrysene

Data File G:\HPLC4\DATA\13800006.D

Sample Name: ICAL,S3065

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.825	BB	6.27574	14.89507	93.47751		Benzo(b)fluoranthene
18.782	BB	19.28471	2.18916	42.21724		Benzo(k)fluoranthene
19.728	BB	10.44253	4.30052	44.90832		Benzo(a)pyrene
21.351	BB	3.01997	36.14844	109.16736		Dibenz(a,h)anthracene
22.138	BV	6.04372	17.07027	103.16802		Benzo(g,h,i)perylene
22.643	VB	4.78746	11.57190	55.40001		Indeno(1,2,3-cd)pyrene

Totals : 3533.04566

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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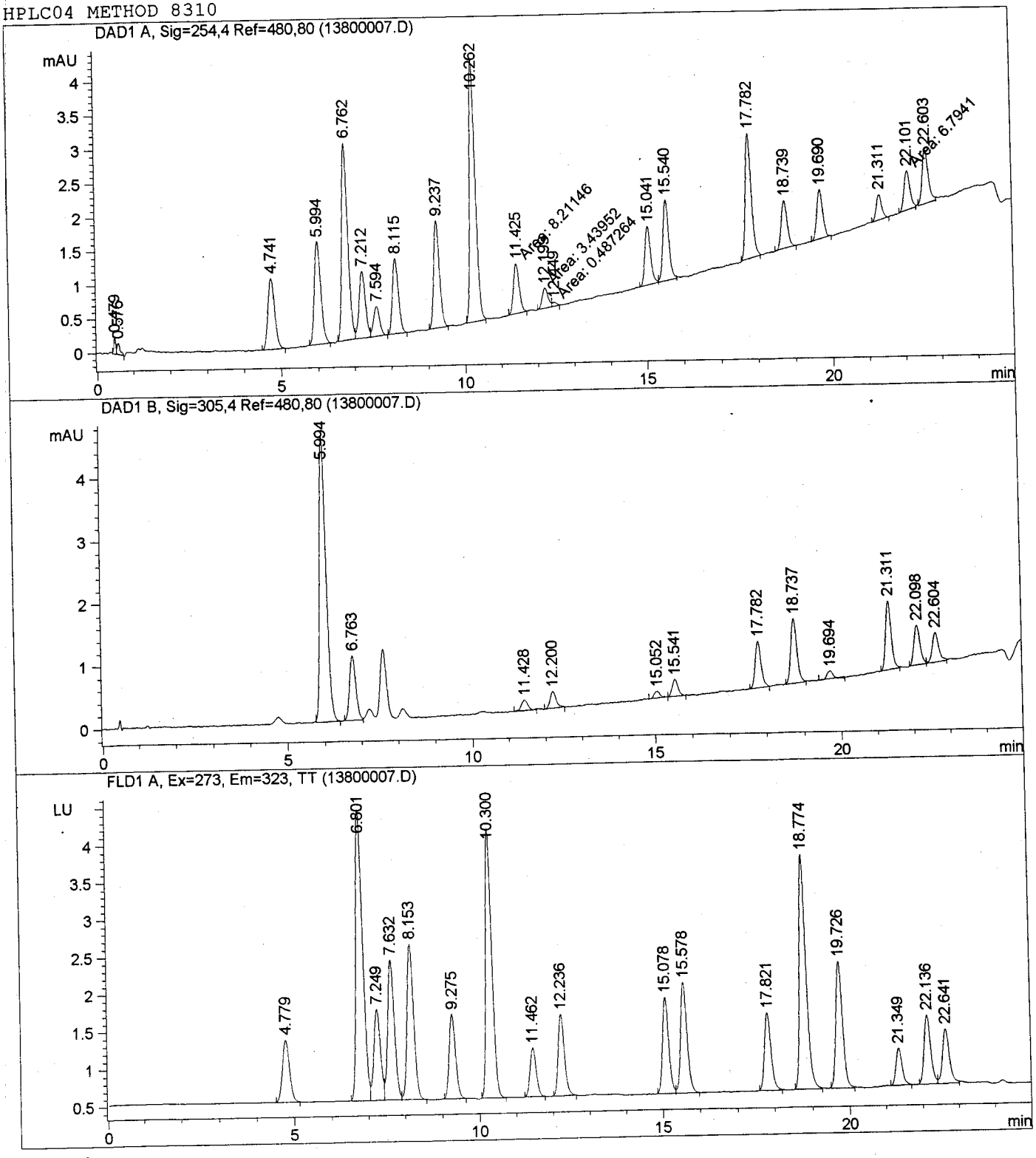
Injection Date : 5/18/2006 8:24:25 PM
Sample Name : ICAL,S3064
Acq. Operator :
Acq. Instrument : HPLC 4
Acq. Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL
Analysis Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 5/22/2006 3:04:09 PM
(modified after loading)

Seq. Line : 7
Location : Vial 7
Inj : 1
Inj Volume : 10 µl

HPLC04 METHOD 8310



JM 22MAY2006

175

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, May 22, 2006 3:04:08 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.741	PP	13.15704	75.44715	992.66081		Naphthalene
5.994	BB	18.68859	97.96462	1830.82099		Acenaphthylene
6.762	BV	34.41462	111.26010	3828.97360		1-Methylnaphthalene (UV)
7.212	VV	11.99022	83.23805	998.04267		2-Methylnaphthalene
7.594	VB	5.17957	182.34076	944.44598		Acenaphthene
8.115	BP	12.48572	15.66499	195.58864		Fluorene
9.237	BB	17.94612	5.51656	99.00091		Phenanthrene
10.262	BB	42.52945	2.38255	101.32866		Anthracene
11.425	MM	8.21146	24.85880	204.12706		Fluoranthene
12.199	MF	3.43952	31.84936	109.54636		Pyrene
15.041	BB	9.67921	11.48192	111.13591		Benzo(a)anthracene
15.540	BB	13.59609	7.71104	104.83992		Chrysene
17.782	BB	20.85804	9.58304	199.88339		Benzo(b)fluoranthene
18.739	PB	7.89588	13.47462	106.39401		Benzo(k)fluoranthene
19.690	BP	8.22974	12.32704	101.44830		Benzo(a)pyrene
21.311	PP	4.03761	53.19287	214.77209		Dibenz(a,h)anthracene
22.101	MF	6.79410	30.67938	208.43875		Benzo(g,h,i)perylene
22.603	BB	9.64680	11.34406	109.43393		Indeno(1,2,3-cd)pyrene

Totals : 1.04609e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
5.994	BP	56.04304	35.96343	2015.49979		Acenaphthylene
6.763	BV	12.31411	319.16952	3930.28943		1-Methylnaphthalene (UV)

Totals : 5945.78921

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.779	BB	11.08296	78.41449	869.06430		Naphthalene
6.801	BV	49.21495	69.93486	3441.84074		1-Methylnaphthalene (F)
7.249	VV	15.52372	59.51698	923.92465		2-Methylnaphthalene
7.632	VV	23.56936	39.24141	924.89482		Acenaphthene
8.153	VB	25.46982	7.01892	178.77070		Fluorene
9.275	BB	13.66179	6.60992	90.30337		Phenanthrene
10.300	BB	42.23863	2.36471	99.88196		Anthracene
11.462	BB	7.68846	24.34096	187.14448		Fluoranthene
12.236	BB	13.11404	7.39696	97.00398		Pyrene
15.078	BV	15.15430	6.51482	98.72748		Benzo(a)anthracene
15.578	VB	18.11283	5.14692	93.22533		Chrysene

Data File G:\HPLC4\DATA\13800007.D

Sample Name: ICAL,S3064

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.821	BB	12.83850	15.01359	192.75198		Benzo(b)fluoranthene
18.774	BB	39.20409	2.38224	93.39338		Benzo(k)fluoranthene
19.726	BB	21.26584	4.49830	95.66009		Benzo(a)pyrene
21.349	BB	6.02086	33.66053	202.66539		Dibenz(a,h)anthracene
22.136	BV	11.79889	16.41176	193.64051		Benzo(g,h,i)perylene
22.641	VB	9.68046	10.88148	105.33775		Indeno(1,2,3-cd)pyrene

Totals : 7888.23092

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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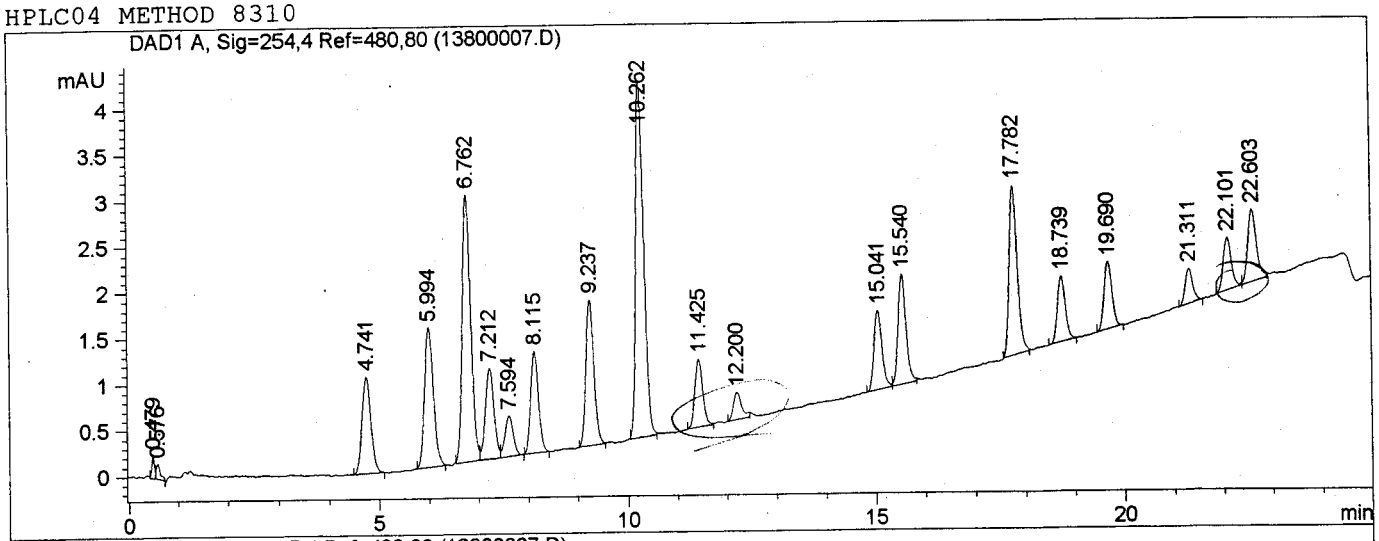
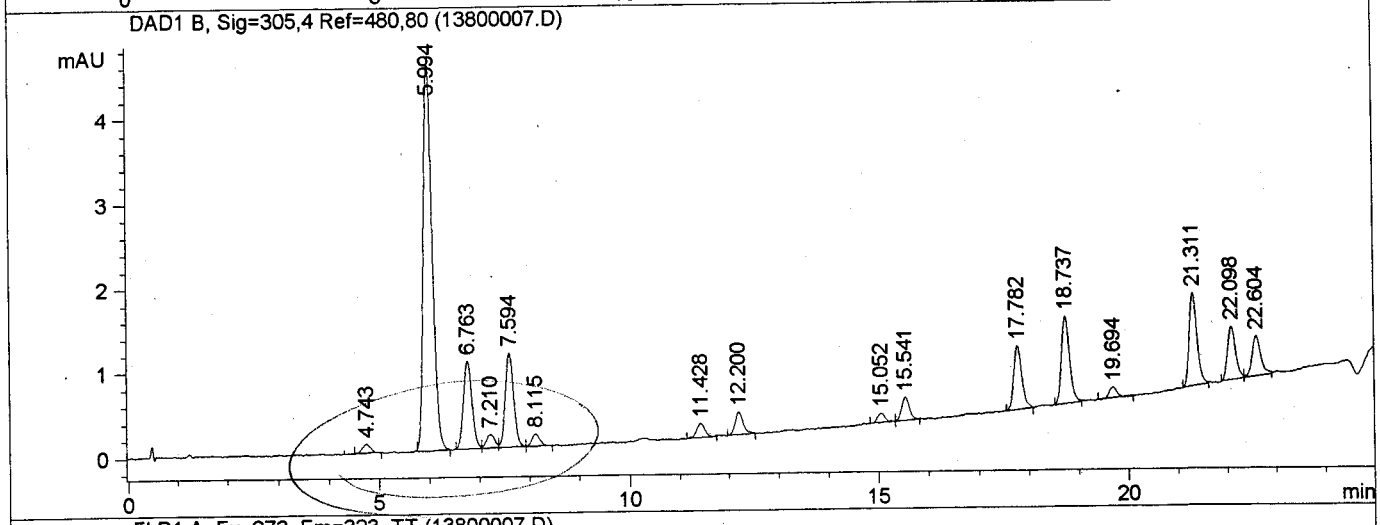
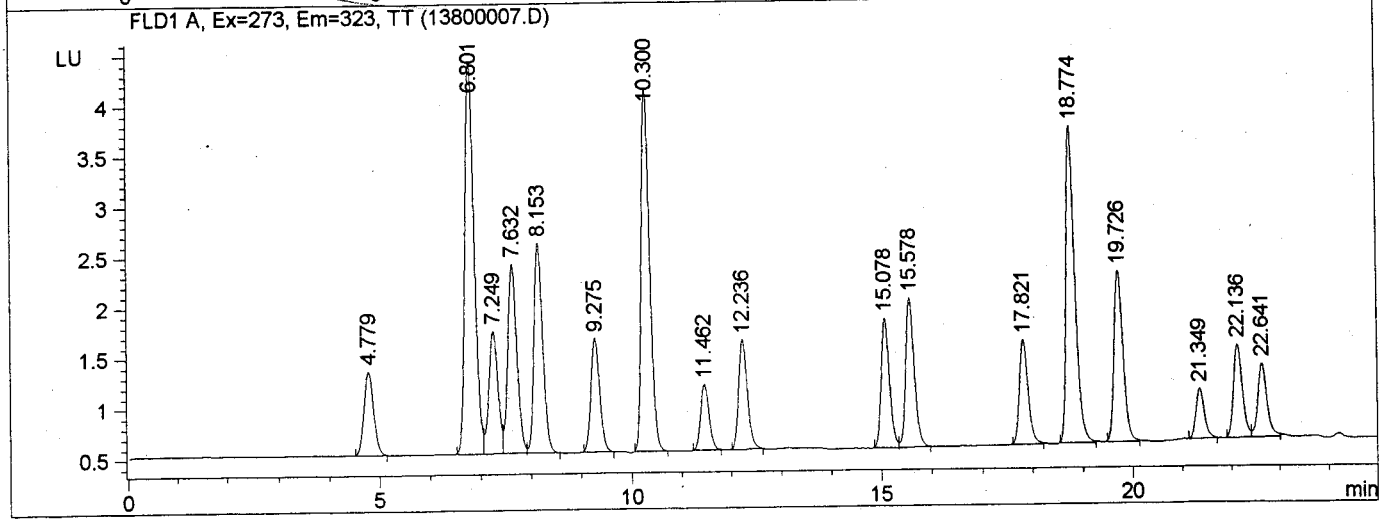
Injection Date : 5/18/2006 8:24:25 PM
Sample Name : ICAL,S3064
Acq. Operator :
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\051806.S
Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL

Seq. Line : 7
Location : Vial 7
Inj : 1
Inj Volume : 10 µl

HPLC04 METHOD 8310







External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.741	PP	13.15704	75.23966	989.93094		Naphthalene
5.994	BB	18.68859	97.95052	1830.55734		Acenaphthylene
6.762	BV	34.41462	111.49571	3837.08215		1-Methylnaphthalene (UV)
7.212	VV	11.99022	84.01255	1007.32908		2-Methylnaphthalene
7.594	VB	5.17957	183.82214	952.11889		Acenaphthene
8.115	BP	12.48572	15.67684	195.73657		Fluorene
9.237	BB	17.94612	5.50602	98.81159		Phenanthrene
10.262	BB	42.52945	2.39039	101.66206		Anthracene
11.425	BB	8.33177	24.89745	207.43969		Fluoranthene
12.200	BB	3.63215	32.14049	116.73924		Pyrene
15.041	BB	9.67921	11.54875	111.78279		Benzo(a)anthracene
15.540	BB	13.59609	7.69321	104.59755		Chrysene
17.782	BB	20.85804	9.63082	200.87998		Benzo(b)fluoranthene
18.739	PB	7.89588	13.44291	106.14363		Benzo(k)fluoranthene
19.690	BP	8.22974	12.47815	102.69193		Benzo(a)pyrene
21.311	PP	4.03761	53.48821	215.96454		Dibenz(a,h)anthracene
22.101	PB	6.88324	30.50981	210.00617		Benzo(g,h,i)perylene
22.603	BB	9.64680	11.38859	109.86342		Indeno(1,2,3-cd)pyrene

Totals : 1.04993e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
5.994	BP	56.04304	36.00954	2018.08416		Acenaphthylene
6.763	BV	12.31411	319.09832	3929.41268		1-Methylnaphthalene (UV)

Totals : 5947.49684

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.779	BB	11.08296	77.69214	861.05854		Naphthalene
6.801	BV	49.21495	69.11596	3401.53860		1-Methylnaphthalene (F)
7.249	VV	15.52372	59.25143	919.80224		2-Methylnaphthalene
7.632	VV	23.56936	39.05561	920.51559		Acenaphthene
8.153	VB	25.46982	6.97885	177.75006		Fluorene
9.275	BB	13.66179	6.58089	89.90669		Phenanthrene
10.300	BB	42.23863	2.37078	100.13855		Anthracene
11.462	BB	7.68846	24.15496	185.71436		Fluoranthene
12.236	BB	13.11404	7.36549	96.59133		Pyrene
15.078	BV	15.15430	6.50643	98.60035		Benzo(a)anthracene
15.578	VB	18.11283	5.13250	92.96409		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.821	BB	12.83850	14.92551	191.62111		Benzo(b)fluoranthene
18.774	BB	39.20409	2.37879	93.25822		Benzo(k)fluoranthene
19.726	BB	21.26584	4.48946	95.47213		Benzo(a)pyrene
21.349	BB	6.02086	33.71974	203.02184		Dibenz(a,h)anthracene
22.136	BV	11.79889	16.38463	193.32039		Benzo(g,h,i)perylene
22.641	VB	9.68046	10.92153	105.72548		Indeno(1,2,3-cd)pyrene
Totals :				7826.99958		

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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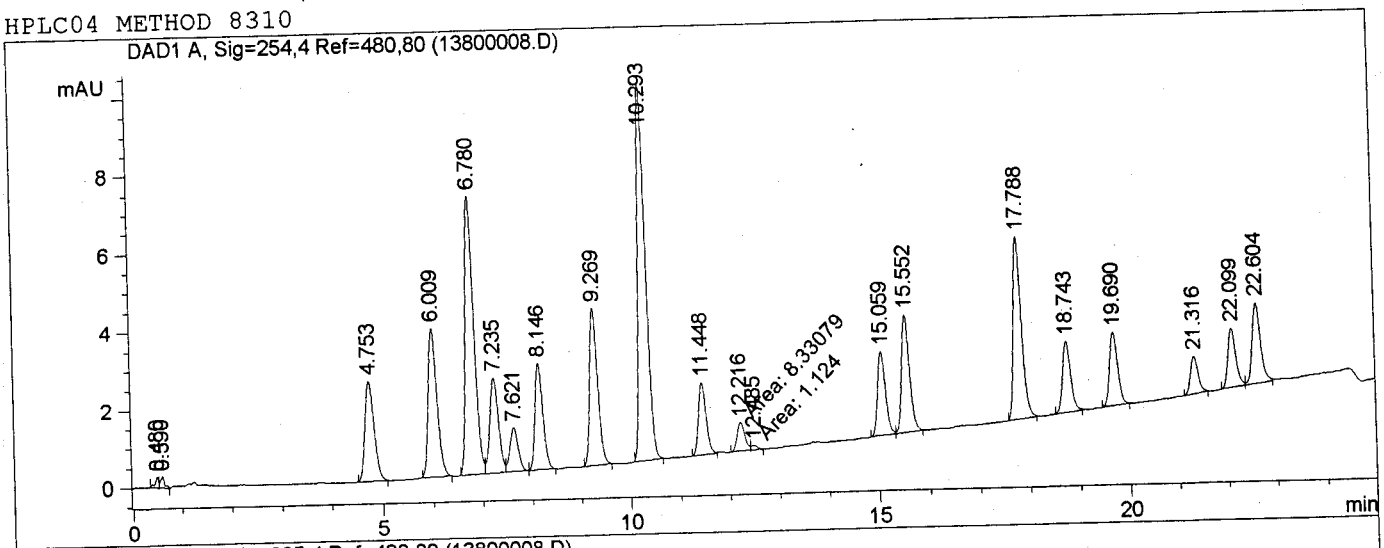
*** End of Report ***

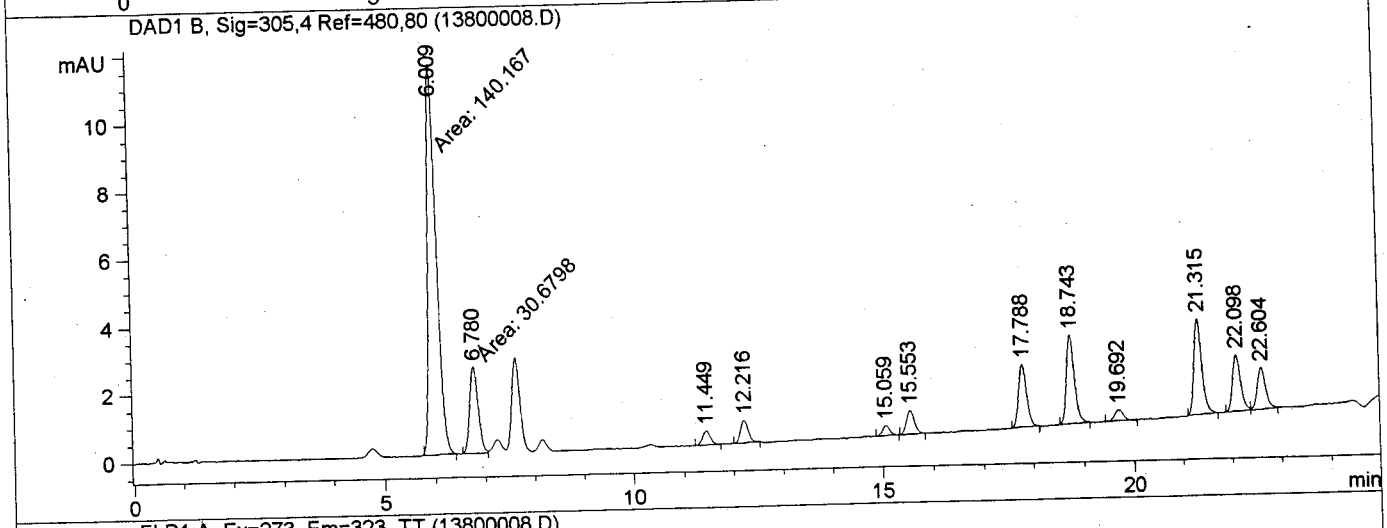
Data File G:\HPLC4\DATA\13800008.D

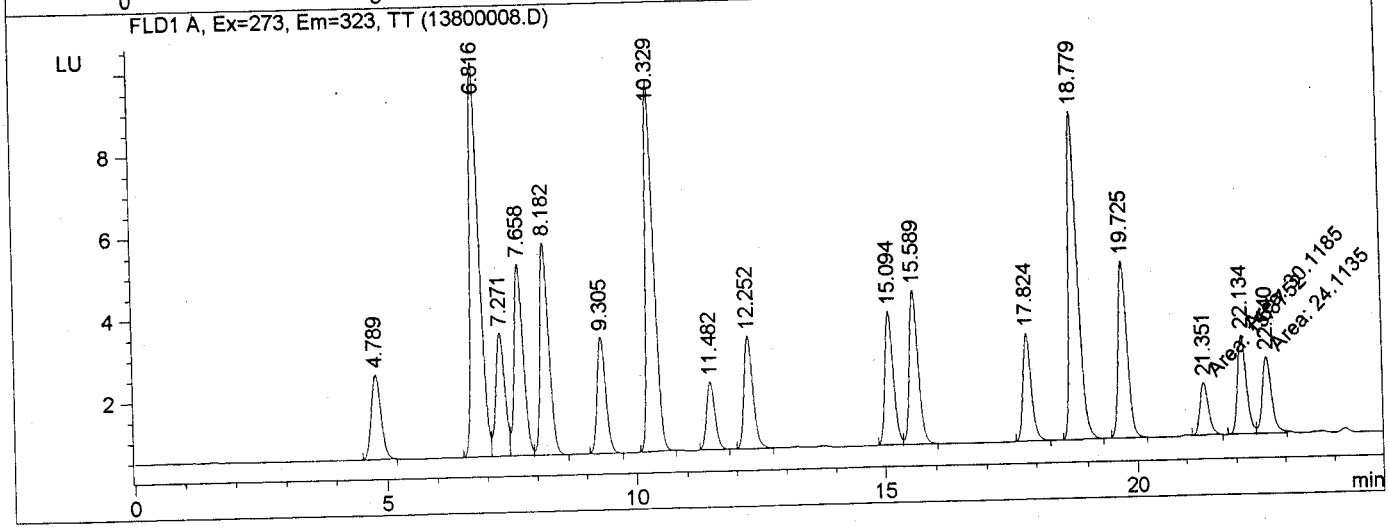
Sample Name: ICAL,S3063

Injection Date	: 5/18/2006 8:56:04 PM	Seq. Line	: 8
Sample Name	: ICAL,S3063	Location	: Vial 8
Acq. Operator	:	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 5/22/2006 3:08:40 PM (modified after loading)		

HPLC04 METHOD 8310







JM 22MAY2006

HPLC 4 5/22/2006 3:11:18 PM

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, May 22, 2006 3:08:39 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.753	BB	32.77972	76.37793	2503.64698		Naphthalene
6.009	BP	46.93712	104.60774	4909.98650		Acenaphthylene
6.780	BV	85.94093	115.82409	9954.03067		1-Methylnaphthalene (UV)
7.235	VV	29.85911	85.16072	2542.82320		2-Methylnaphthalene
7.621	VB	13.08239	192.22136	2514.71478		Acenaphthene
8.146	BP	31.10701	15.79700	491.39753		Fluorene
9.269	BB	45.25932	5.54654	251.03249		Phenanthrene
10.293	BB	106.41690	2.42535	258.09860		Anthracene
11.448	BB	20.48045	24.49211	501.60948		Fluoranthene
12.216	MF	8.33079	30.45653	253.72692		Pyrene
15.059	BV	23.48936	11.08579	260.39827		Benzo(a)anthracene
15.552	VB	33.59677	7.55520	253.83040		Chrysene
17.788	BB	53.17228	9.44279	502.09453		Benzo(b)fluoranthene
18.743	BB	20.57043	12.70764	261.40174		Benzo(k)fluoranthene
19.690	BB	21.51167	11.80156	253.87126		Benzo(a)pyrene
21.316	PB	10.67297	49.06117	523.62828		Dibenz(a,h)anthracene
22.099	BV	17.66954	29.06294	513.52874		Benzo(g,h,i)perylene
22.604	VB	24.43922	10.71133	261.77653		Indeno(1,2,3-cd)pyrene

Totals : 2.70116e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.009	MM	140.16672	35.82836	5021.94384		Acenaphthylene
6.780	MF	30.67977	324.56337	9957.52924		1-Methylnaphthalene (UV)

Totals : 1.49795e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.789	BB	27.68407	83.52975	2312.44313		Naphthalene
6.816	BV	122.94567	75.46335	9277.89216		1-Methylnaphthalene (F)
7.271	VV	38.81281	61.91813	2403.21689		2-Methylnaphthalene
7.658	VV	58.84945	40.87067	2405.21631		Acenaphthene
8.182	VP	63.67719	7.44721	474.21718		Fluorene
9.305	BP	34.08815	6.99887	238.57836		Phenanthrene
10.329	BB	106.64105	2.39799	255.72394		Anthracene
11.482	BB	19.30645	24.53096	473.60574		Fluoranthene
12.252	BP	33.29245	7.48167	249.08298		Pyrene
15.094	BV	38.07673	6.55493	249.59029		Benzo(a)anthracene
15.589	VB	45.37164	5.31771	241.27313		Chrysene

Data File G:\HPLC4\DATA\13800008.D

Sample Name: ICAL,S3063

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.824	BB	32.34958	15.00282	485.33482		Benzo(b)fluoranthene
18.779	BB	98.73430	2.48862	245.71240		Benzo(k)fluoranthene
19.725	BB	53.53555	4.60008	246.26762		Benzo(a)pyrene
21.351	FM	15.37518	32.19158	494.95134		Dibenz(a,h)anthracene
22.134	MF	30.11854	16.00712	482.11107		Benzo(g,h,i)perylene
22.640	FM	24.11350	10.49065	252.96625		Indeno(1,2,3-cd)pyrene

Totals : 2.07882e4

Results obtained with enhanced integrator!

*** End of Report ***

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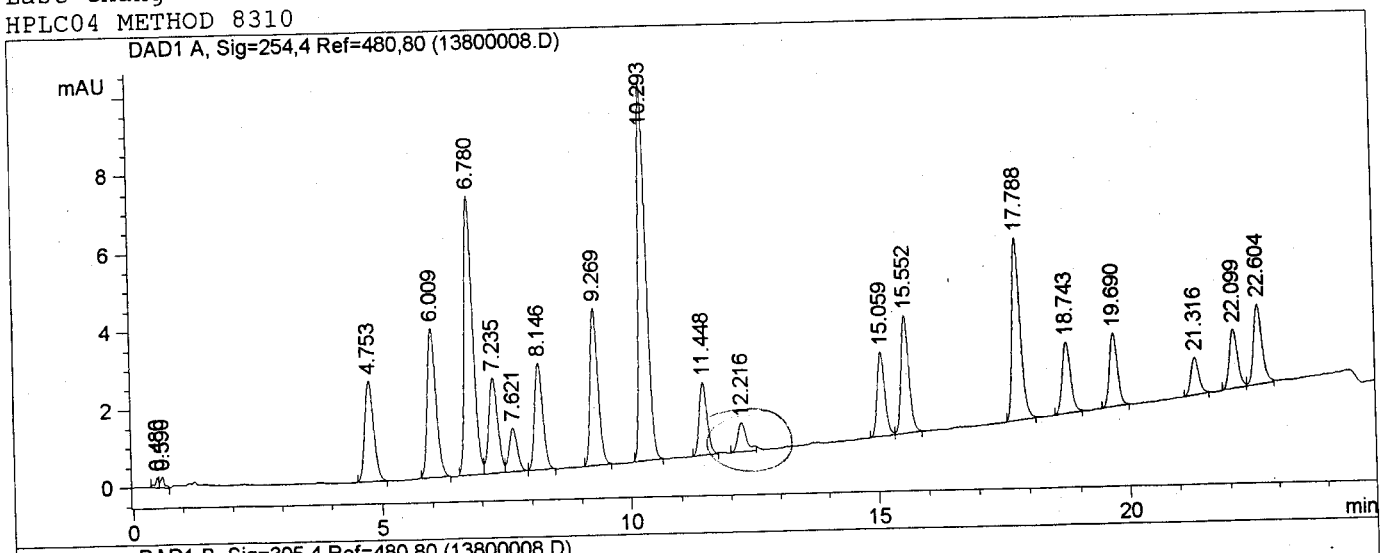
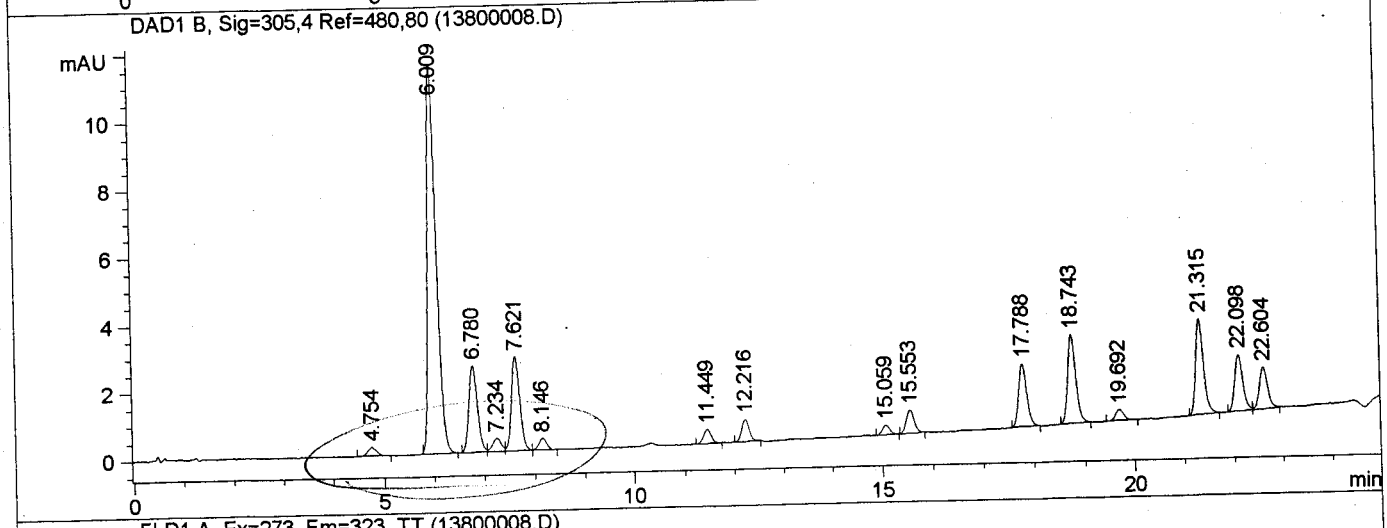
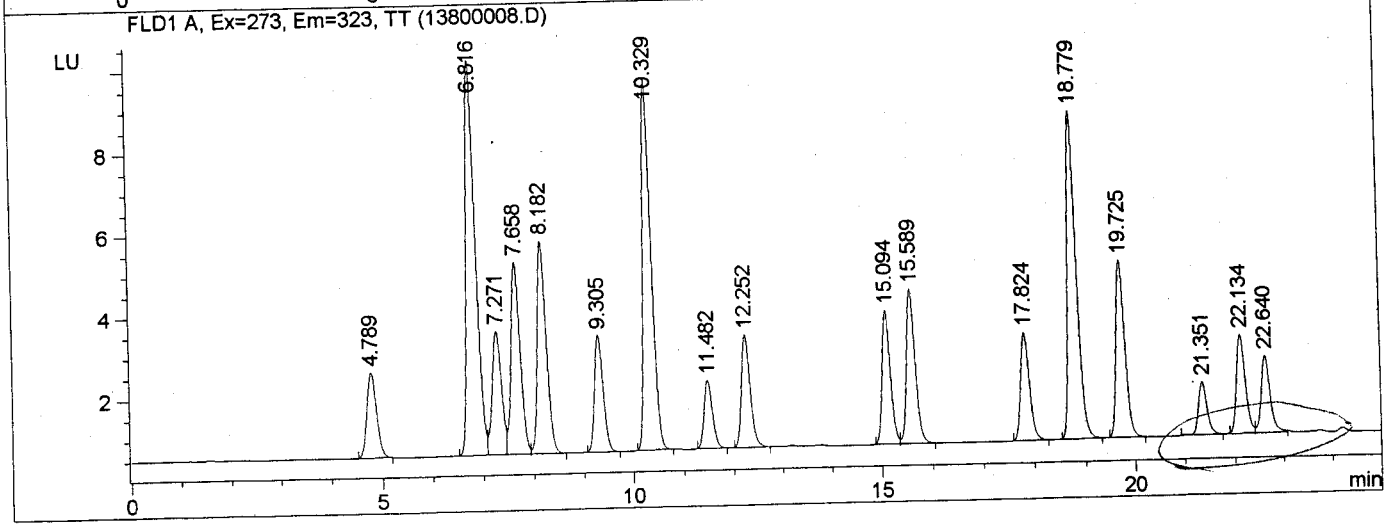
Injection Date : 5/18/2006 8:56:04 PM
Sample Name : ICAL,S3063
Acq. Operator :
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\051806.S
Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL

Seq. Line : 8
Location : Vial 8
Inj : 1
Inj Volume : 10 µl

HPLC04 METHOD 8310







External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.753	BB	32.77972	76.36412	2503.19429		Naphthalene
6.009	BP	46.93712	104.85627	4921.65160		Acenaphthylene
6.780	BV	85.94093	116.07172	9975.31178		1-Methylnaphthalene (UV)
7.235	VV	29.85911	85.97857	2567.24355		2-Methylnaphthalene
7.621	VB	13.08239	193.80657	2535.45315		Acenaphthene
8.146	BP	31.10701	15.81412	491.93013		Fluorene
9.269	BB	45.25932	5.54988	251.18387		Phenanthrene
10.293	BB	106.41690	2.43914	259.56562		Anthracene
11.448	BB	20.48045	24.55847	502.96849		Fluoranthene
12.216	BB	9.07741	30.72660	278.91797		Pyrene
15.059	BV	23.48936	11.17440	262.47948		Benzo(a)anthracene
15.552	VB	33.59677	7.57739	254.57574		Chrysene
17.788	BB	53.17228	9.47431	503.77063		Benzo(b)fluoranthene
18.743	BB	20.57043	12.73634	261.99202		Benzo(k)fluoranthene
19.690	BB	21.51167	11.86888	255.31947		Benzo(a)pyrene
21.316	PB	10.67297	49.03186	523.31537		Dibenz(a,h)anthracene
22.099	BV	17.66954	28.97324	511.94371		Benzo(g,h,i)perylene
22.604	VB	24.43922	10.84229	264.97718		Indeno(1,2,3-cd)pyrene

Totals : 2.71258e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.009	BB	140.42299	35.92868	5045.21256		Acenaphthylene
6.780	BV	30.85767	325.21271	1.00353e4		1-Methylnaphthalene (UV)

Totals : 1.50805e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.789	BB	27.68407	82.81183	2292.56834		Naphthalene
6.816	BV	122.94567	74.68987	9182.79644		1-Methylnaphthalene (F)
7.271	VV	38.81281	61.67004	2393.58779		2-Methylnaphthalene
7.658	VV	58.84945	40.71010	2395.76673		Acenaphthene
8.182	VP	63.67719	7.40100	471.27502		Fluorene
9.305	BP	34.08815	6.96620	237.46500		Phenanthrene
10.329	BB	106.64105	2.40675	256.65820		Anthracene
11.482	BB	19.30645	24.36488	470.39931		Fluoranthene
12.252	BP	33.29245	7.46607	248.56366		Pyrene
15.094	BV	38.07673	6.56025	249.79276		Benzo(a)anthracene
15.589	VB	45.37164	5.30856	240.85792		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.824	BB	32.34958	14.94306	483.40187		Benzo(b)fluoranthene
18.779	BB	98.73430	2.48948	245.79718		Benzo(k)fluoranthene
19.725	BB	53.53555	4.59934	246.22808		Benzo(a)pyrene
21.351	BB	15.91616	32.20018	512.50327		Dibenz(a,h)anthracene
22.134	BV	30.24633	15.94548	482.29231		Benzo(g,h,i)perylene
22.640	VB	24.45337	10.53710	257.66761		Indeno(1,2,3-cd)pyrene

Totals : 2.06676e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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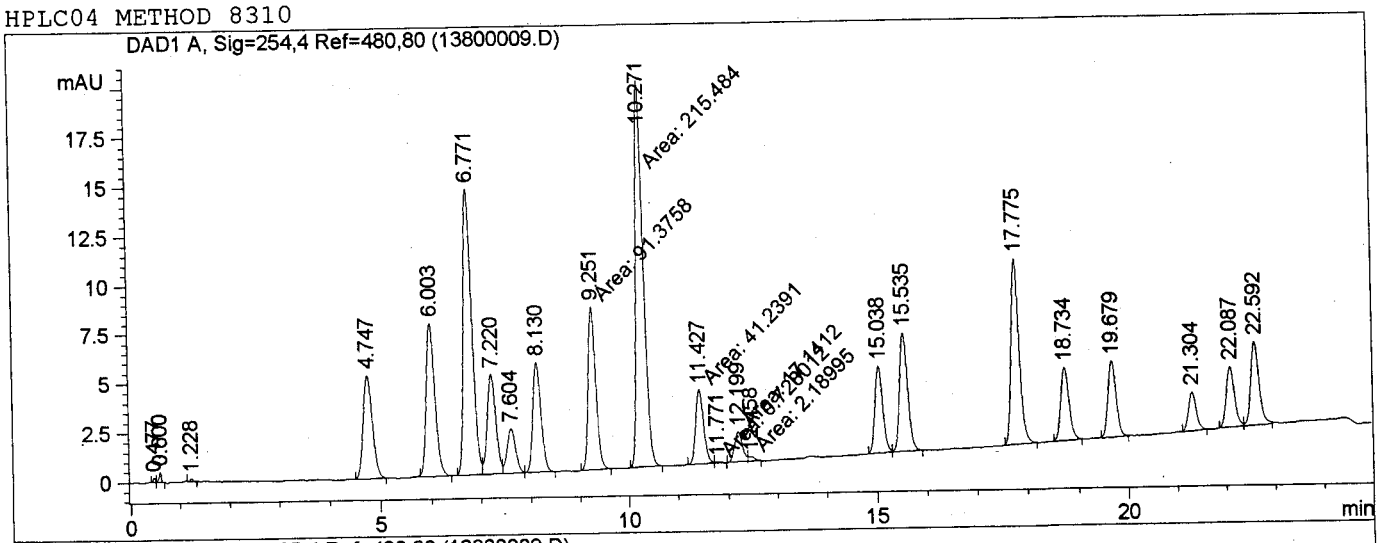
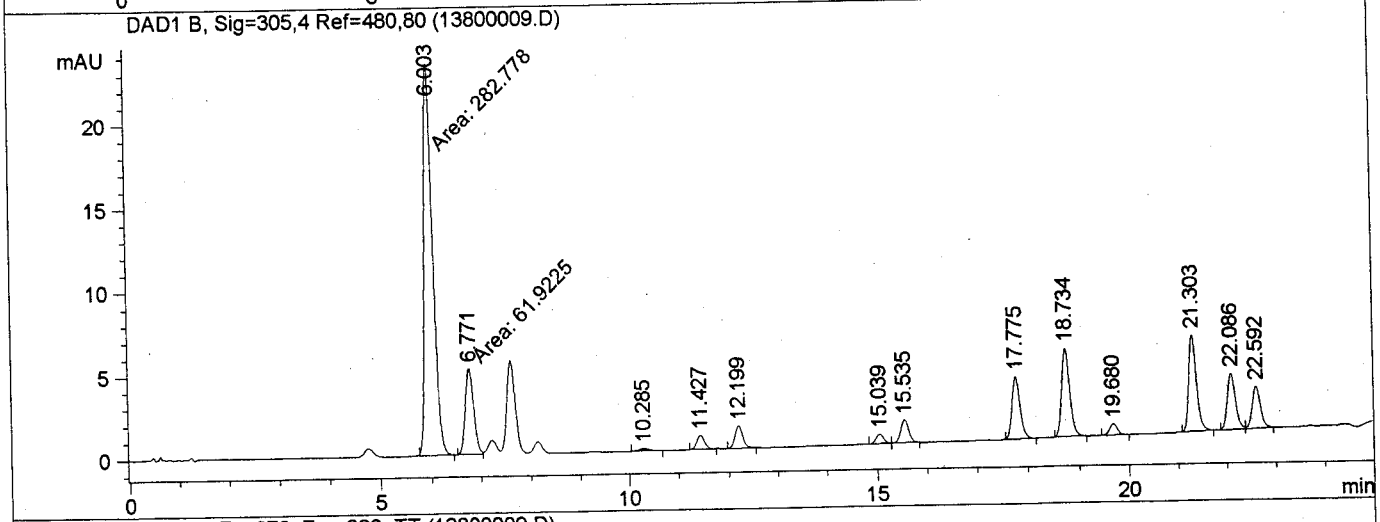
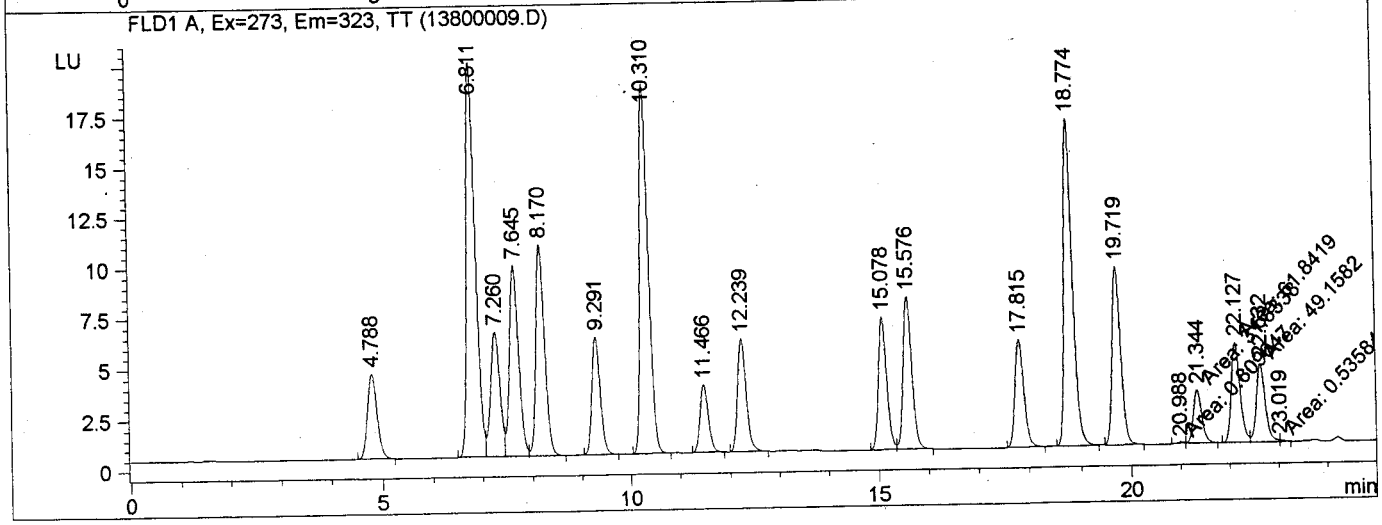
*** End of Report ***

Injection Date	: 5/18/2006 9:27:42 PM	Seq. Line	: 9
Sample Name	: ICAL,S3062	Location	: Vial 9
Acq. Operator	:	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 5/22/2006 3:12:31 PM (modified after loading)		

HPLC04 METHOD 8310







John 22MAY2006

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, May 22, 2006 3:12:30 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.747	BB	66.00784	76.67739	5061.30895		Naphthalene
6.003	BP	94.78723	106.93527	1.01361e4		Acenaphthylene
6.771	BV	173.09207	117.45247	2.03301e4		1-Methylnaphthalene (UV)
7.220	VV	60.88431	86.05257	5239.25141		2-Methylnaphthalene
7.604	VV	26.89059	195.94097	5268.96792		Acenaphthene
8.130	VP	63.54686	15.87401	1008.74328		Fluorene
9.251	MM	91.37579	5.56085	508.12697		Phenanthrene
10.271	MM	215.48436	2.43979	525.73592		Anthracene
11.427	MF	41.23911	24.39645	1006.08770		Fluoranthene
12.199	MF	17.14116	30.11218	516.15780		Pyrene
15.038	BV	47.78680	10.96489	523.97718		Benzo(a)anthracene
15.535	VB	67.79062	7.51456	509.41699		Chrysene
17.775	BB	107.52938	9.40124	1010.90932		Benzo(b)fluoranthene
18.734	BB	41.83699	12.44716	520.75155		Benzo(k)fluoranthene
19.679	BB	44.20454	11.62273	513.77751		Benzo(a)pyrene
21.304	BB	21.81421	47.45179	1035.12328		Dibenz(a,h)anthracene
22.087	BV	35.90152	28.47010	1022.11981		Benzo(g,h,i)perylene
22.592	VB	50.25140	10.54000	529.64997		Indeno(1,2,3-cd)pyrene

Totals : 5.52663e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.003	MM	282.77841	35.83417	1.01331e4		Acenaphthylene
6.771	MF	61.92251	327.20946	2.02616e4		1-Methylnaphthalene (UV)

Totals : 3.03948e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.788	BB	55.85367	85.40601	4770.23924		Naphthalene
6.811	BV	247.30377	77.41538	1.91451e4		1-Methylnaphthalene (F)
7.260	VV	78.28068	62.77767	4914.27847		2-Methylnaphthalene
7.645	VV	119.32713	41.45016	4946.12834		Acenaphthene
8.170	VB	128.43744	7.59911	976.01003		Fluorene
9.291	BB	68.83022	7.13713	491.24997		Phenanthrene
10.310	BB	216.08749	2.40817	520.37505		Anthracene
11.466	BB	39.23374	24.64805	967.03499		Fluoranthene
12.239	BP	67.75372	7.51160	508.93881		Pyrene
15.078	BV	76.80959	6.57644	505.13344		Benzo(a)anthracene
15.576	VB	91.38473	5.38541	492.14433		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.815	BB	65.39377	15.02906	982.80711		Benzo(b)fluoranthene
18.774	BB	198.87831	2.52646	502.45906		Benzo(k)fluoranthene
19.719	BB	108.22565	4.64045	502.21596		Benzo(a)pyrene
21.344	MF	31.83378	31.75456	1010.86765		Dibenz(a,h)anthracene
22.127	FM	61.84187	15.88598	982.41888		Benzo(g,h,i)perylene
22.632	FM	49.15816	10.36973	509.75698		Indeno(1,2,3-cd)pyrene
Totals :				4.27272e4		

Results obtained with enhanced integrator!

*** End of Report ***

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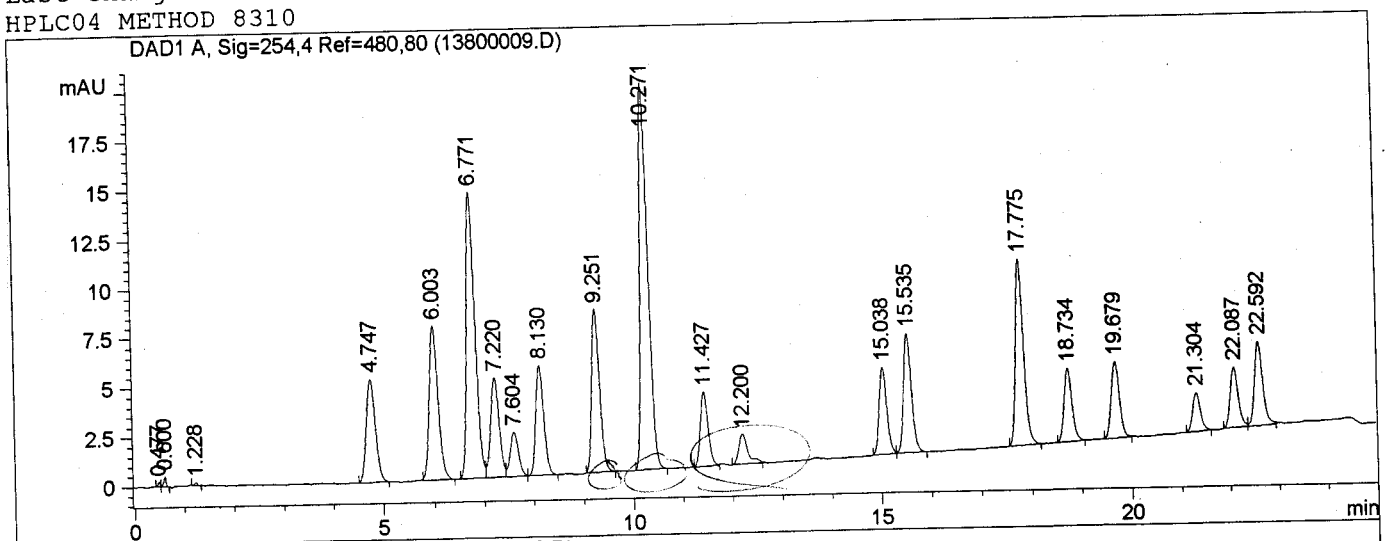
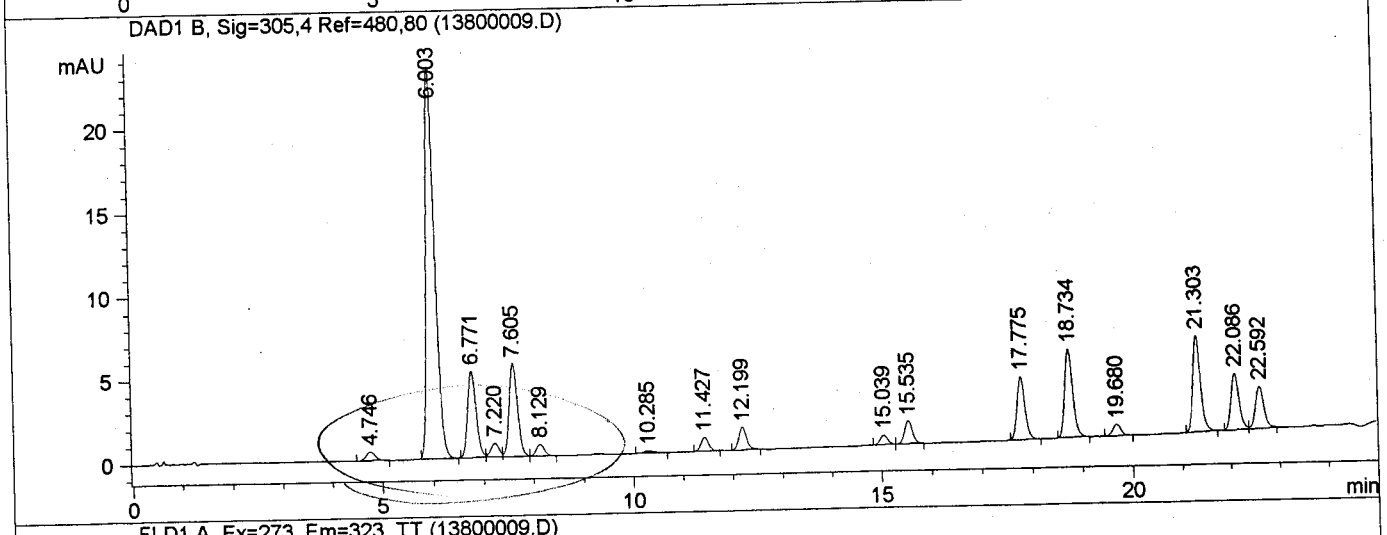
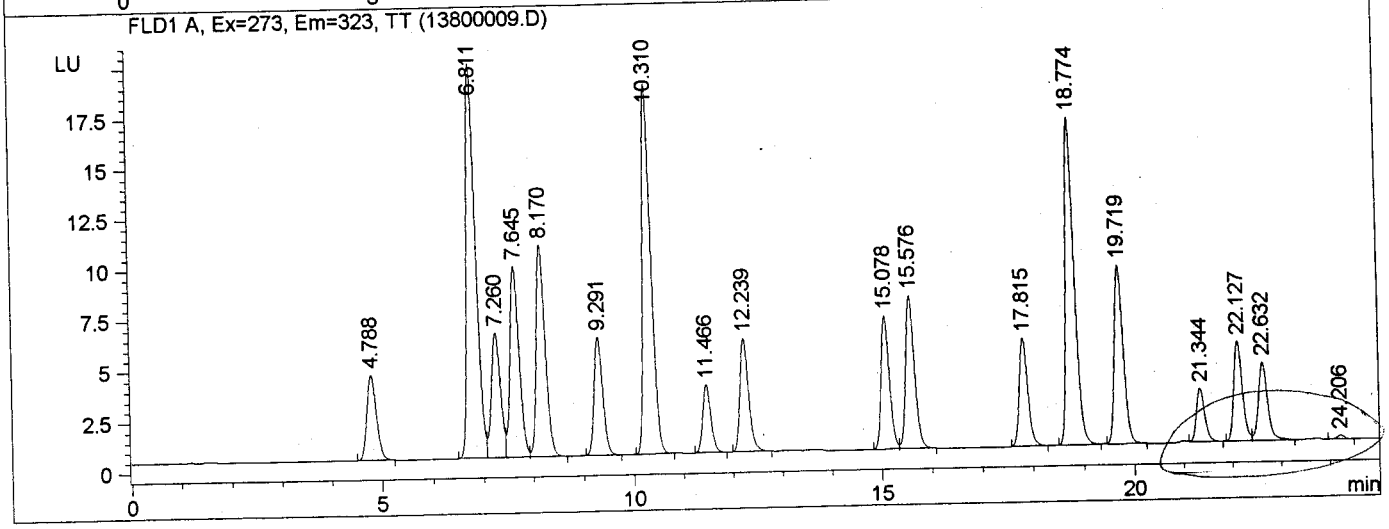
Injection Date : 5/18/2006 9:27:42 PM
Sample Name : ICAL,S3062
Acq. Operator :
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\051806.S
Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL
HPLC04 METHOD 8310

Seq. Line : 9
Location : Vial 9
Inj : 1
Inj Volume : 10 µl







External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.747	BB	66.00784	76.74366	5065.68344		Naphthalene
6.003	BP	94.78723	107.16262	1.01576e4		Acenaphthylene
6.771	BV	173.09207	117.61057	2.03575e4		1-Methylnaphthalene (UV)
7.220	VV	60.88431	86.65081	5275.67504		2-Methylnaphthalene
7.604	VV	26.89059	197.16682	5301.93189		Acenaphthene
8.130	VP	63.54686	15.86111	1007.92400		Fluorene
9.251	BB	90.80871	5.56434	505.29050		Phenanthrene
10.271	BB	215.28198	2.45555	528.63544		Anthracene
11.427	BB	41.29040	24.44131	1009.19134		Fluoranthene
12.200	BB	19.25382	30.22813	582.00685		Pyrene
15.038	BV	47.78680	11.04099	527.61359		Benzo(a)anthracene
15.535	VB	67.79062	7.53767	510.98350		Chrysene
17.775	BB	107.52938	9.42324	1013.27528		Benzo(b)fluoranthene
18.734	BB	41.83699	12.51259	523.48920		Benzo(k)fluoranthene
19.679	BB	44.20454	11.67508	516.09156		Benzo(a)pyrene
21.304	BB	21.81421	47.64691	1039.37946		Dibenz(a,h)anthracene
22.087	BV	35.90152	28.47528	1022.30574		Benzo(g,h,i)perylene
22.592	VB	50.25140	10.65929	535.64450		Indeno(1,2,3-cd)pyrene

Totals : 5.54802e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.003	BB	283.36636	35.90159	1.01733e4		Acenaphthylene
6.771	BV	62.20593	327.25890	2.03574e4		1-Methylnaphthalene (UV)

Totals : 3.05307e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.788	BB	55.85367	84.53565	4721.62655		Naphthalene
6.811	BV	247.30377	76.56078	1.89338e4		1-Methylnaphthalene (F)
7.260	VV	78.28068	62.48287	4891.20145		2-Methylnaphthalene
7.645	VV	119.32713	41.27029	4924.66503		Acenaphthene
8.170	VB	128.43744	7.54290	968.79023		Fluorene
9.291	BB	68.83022	7.09628	488.43876		Phenanthrene
10.310	BB	216.08749	2.41870	522.65006		Anthracene
11.466	BB	39.23374	24.43544	958.69373		Fluoranthene
12.239	BP	67.75372	7.49931	508.10642		Pyrene
15.078	BV	76.80959	6.57819	505.26812		Benzo(a)anthracene
15.576	VB	91.38473	5.36746	490.50382		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.815	BB	65.39377	14.94890	977.56498		Benzo(b)fluoranthene
18.774	BB	198.87831	2.52619	502.40408		Benzo(k)fluoranthene
19.719	BB	108.22565	4.63593	501.72649		Benzo(a)pyrene
21.344	VB	32.08181	31.73429	1018.09339		Dibenz(a,h)anthracene
22.127	BV	61.99461	15.80164	979.61673		Benzo(g,h,i)perylene
22.632	VB	50.43483	10.40733	524.89177		Indeno(1,2,3-cd)pyrene
Totals :				4.24180e4		

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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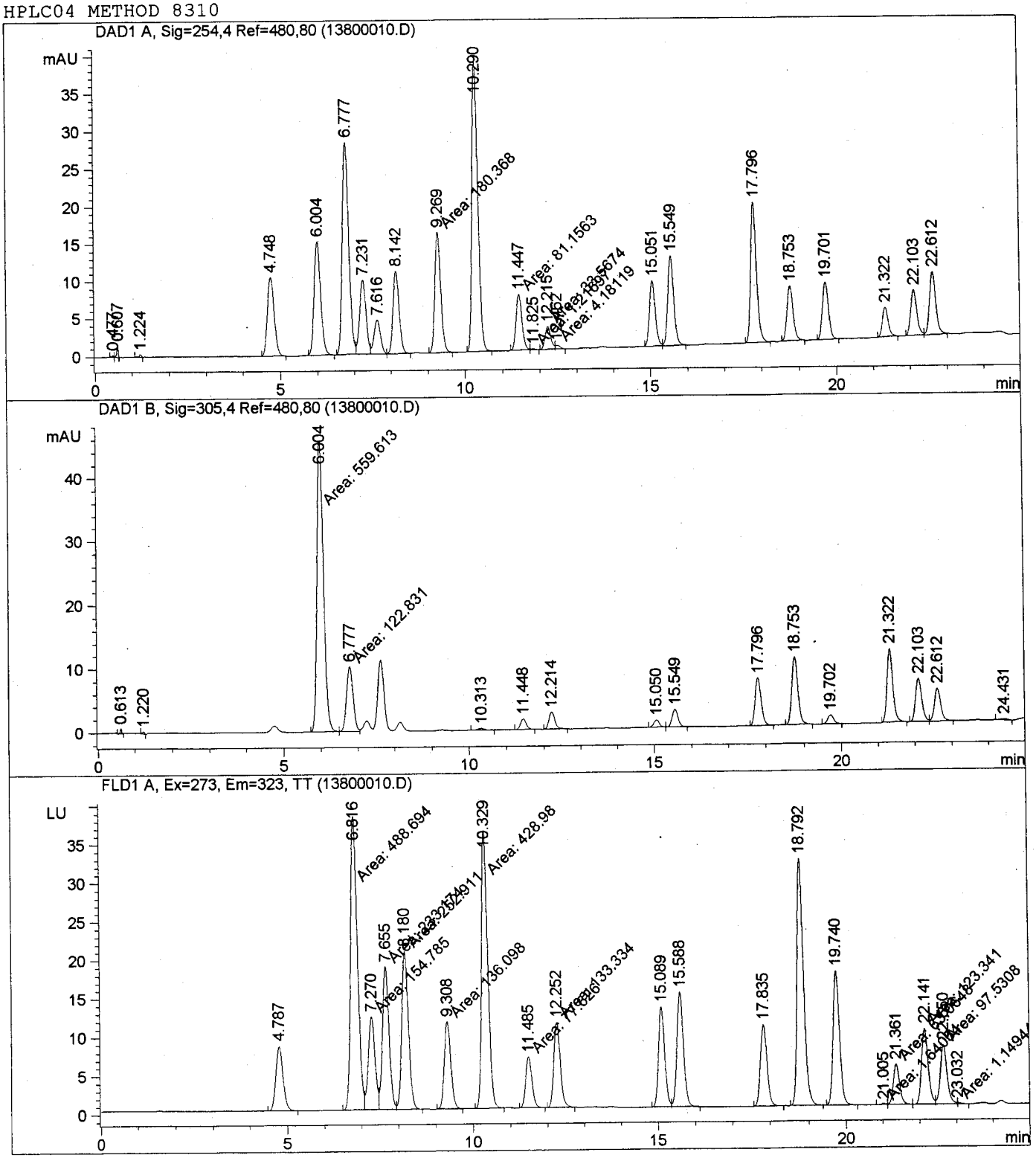
Injection Date	: 5/18/2006 9:59:20 PM	Seq. Line	: 10
Sample Name	: ICAL,S3061	Location	: Vial 10
Acq. Operator	:	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 5/22/2006 3:16:08 PM (modified after loading)		

HPLC04 METHOD 8310



Cjm 22MAY2006

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, May 22, 2006 3:16:07 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.748	BB	130.71696	76.88265	1.00499e4		Naphthalene
6.004	BP	187.08742	108.17547	2.02383e4		Acenaphthylene
6.777	BV	340.84924	118.27930	4.03154e4		1-Methylnaphthalene (UV)
7.231	VV	120.14920	86.52629	1.03961e4		2-Methylnaphthalene
7.616	VV	53.03941	197.59528	1.04803e4		Acenaphthene
8.142	VP	125.67238	15.89615	1997.70672		Fluorene
9.269	MM	180.36794	5.56956	1004.56957		Phenanthrene
10.290	BB	428.09290	2.44898	1048.38885		Anthracene
11.447	MF	81.15630	24.38102	1978.67352		Fluoranthene
12.215	MF	33.56740	29.90175	1003.72397		Pyrene
15.051	BV	94.79131	10.90985	1034.15935		Benzo(a)anthracene
15.549	VB	134.58353	7.50648	1010.24825		Chrysene
17.796	BB	213.44913	9.38973	2004.22920		Benzo(b)fluoranthene
18.753	BB	83.72203	12.33911	1033.05512		Benzo(k)fluoranthene
19.701	BB	87.60189	11.54393	1011.26973		Benzo(a)pyrene
21.322	BB	44.01789	46.74019	2057.40421		Dibenz(a,h)anthracene
22.103	BV	71.56614	28.20060	2018.20777		Benzo(g,h,i)perylene
22.612	VB	99.94793	10.47655	1047.10941		Indeno(1,2,3-cd)pyrene

Totals : 1.09729e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.004	MF	559.61334	35.84867	2.00614e4		Acenaphthylene
6.777	MF	122.83121	328.29217	4.03245e4		1-Methylnaphthalene (UV)

Totals : 6.03859e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.787	BB	110.44406	86.23241	9523.85763		Naphthalene
6.816	MF	488.69351	78.25434	3.82424e4		1-Methylnaphthalene (F)
7.270	MF	154.78474	63.16158	9776.44914		2-Methylnaphthalene
7.655	FM	233.17419	41.70006	9723.37784		Acenaphthene
8.180	FM	252.91112	7.66160	1937.70495		Fluorene
9.308	MM	136.09827	7.20018	979.93250		Phenanthrene
10.329	MF	428.97952	2.41475	1035.87975		Anthracene
11.485	MM	77.62599	24.67740	1915.60790		Fluoranthene
12.252	MM	133.33412	7.52665	1003.55946		Pyrene
15.089	BV	151.99316	6.59134	1001.83827		Benzo(a)anthracene
15.588	VB	180.56219	5.42067	978.76878		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.835	BB	129.20119	15.03529	1942.57735		Benzo(b)fluoranthene
18.792	BB	392.59399	2.54606	999.56844		Benzo(k)fluoranthene
19.740	BB	214.33957	4.66052	998.93354		Benzo(a)pyrene
21.361	MF	63.06483	31.52180	1987.91703		Dibenz(a,h)anthracene
22.141	MF	123.34122	15.81446	1950.57435		Benzo(g,h,i)perylene
22.650	FM	97.53080	10.31825	1006.34760		Indeno(1,2,3-cd)pyrene
Totals :				8.50053e4		

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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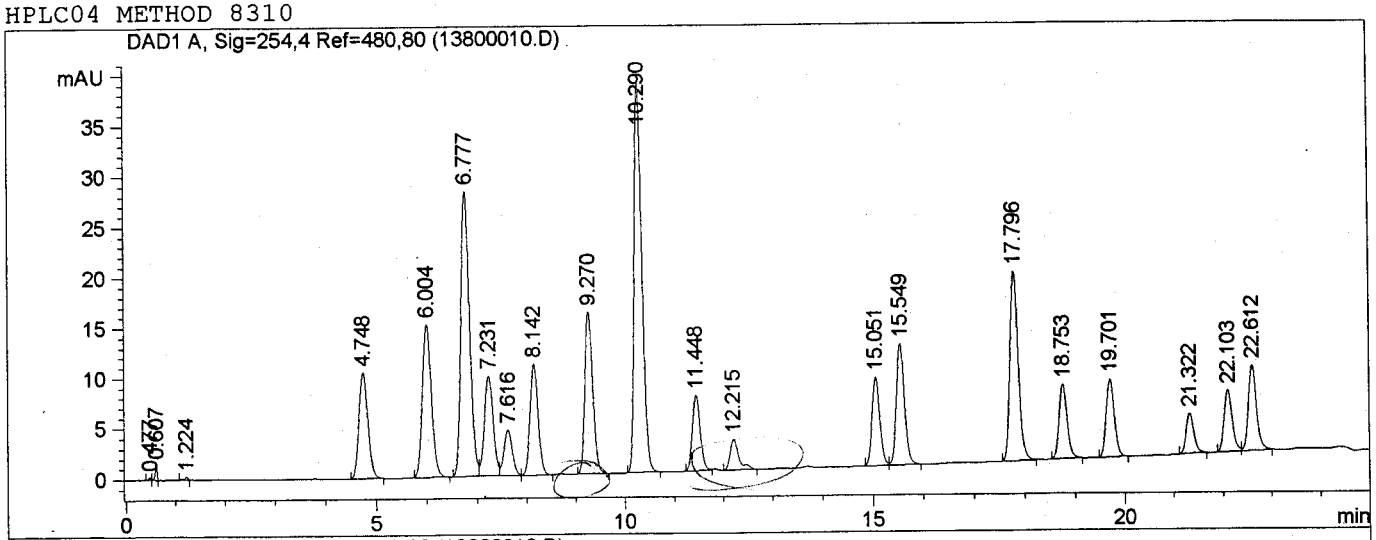
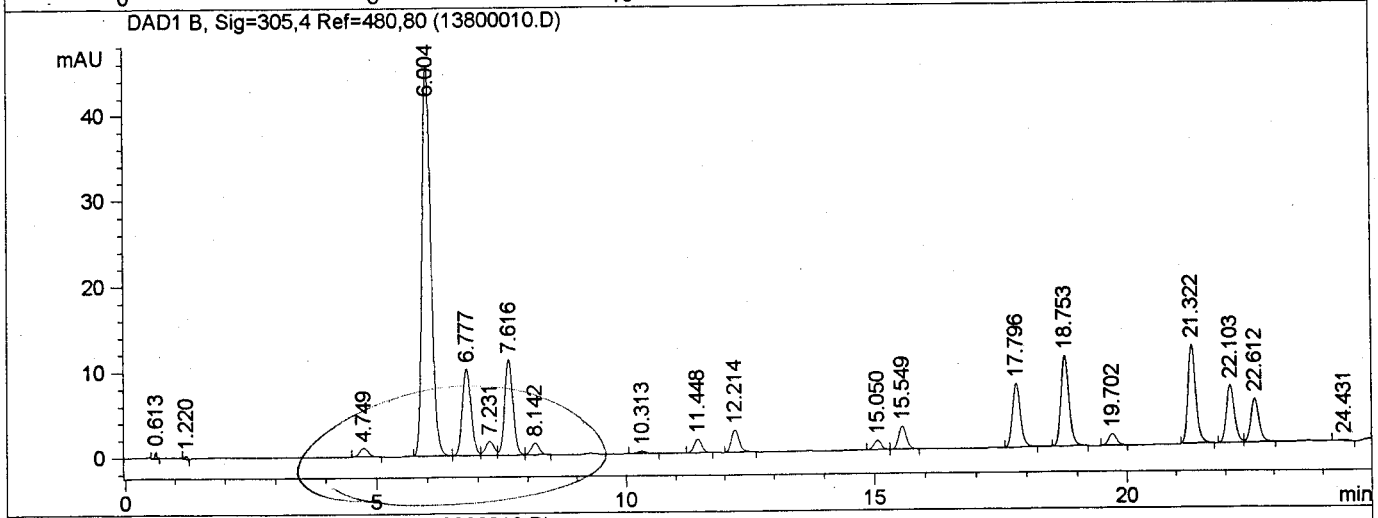
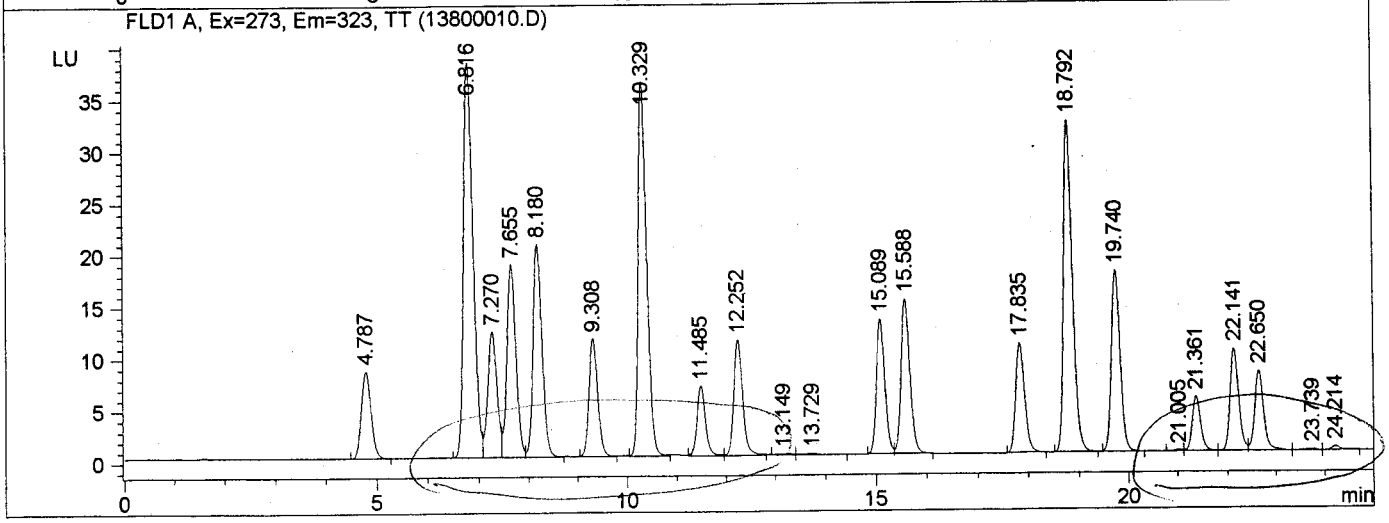
Injection Date : 5/18/2006 9:59:20 PM
Sample Name : ICAL,S3061
Acq. Operator :
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\051806.S
Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL
HPLC04 METHOD 8310

Seq. Line : 10
Location : Vial 10
Inj : 1
Inj Volume : 10 µl







External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.748	BB	130.71696	76.92901	1.00559e4		Naphthalene
6.004	BP	187.08742	108.27875	2.02576e4		Acenaphthylene
6.777	BV	340.84924	118.35743	4.03420e4		1-Methylnaphthalene (UV)
7.231	VV	120.14920	86.96994	1.04494e4		2-Methylnaphthalene
7.616	VV	53.03941	198.73637	1.05409e4		Acenaphthene
8.142	VP	125.67238	15.88339	1996.10338		Fluorene
9.270	BP	179.71016	5.57145	1001.24549		Phenanthrene
10.290	BB	428.09290	2.46352	1054.61671		Anthracene
11.448	BB	81.31540	24.38455	1982.83926		Fluoranthene
12.215	BP	37.75097	30.01026	1132.91647		Pyrene
15.051	BV	94.79131	10.97704	1040.52767		Benzo(a)anthracene
15.549	VB	134.58353	7.51831	1011.84027		Chrysene
17.796	BB	213.44913	9.39845	2006.09135		Benzo(b)fluoranthene
18.753	BB	83.72203	12.40432	1038.51473		Benzo(k)fluoranthene
19.701	BB	87.60189	11.58407	1014.78632		Benzo(a)pyrene
21.322	BB	44.01789	46.97767	2067.85759		Dibenz(a,h)anthracene
22.103	BV	71.56614	28.23478	2020.65405		Benzo(g,h,i)perylene
22.612	VB	99.94793	10.57314	1056.76374		Indeno(1,2,3-cd)pyrene

Totals : 1.10071e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.004	BV	560.06903	35.88844	2.01000e4		Acenaphthylene
6.777	VV	123.09278	328.25519	4.04058e4		1-Methylnaphthalene (UV)

Totals : 6.05058e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.787	BB	110.44406	85.37302	9428.94253		Naphthalene
6.816	BV	487.92715	77.47294	3.78012e4		1-Methylnaphthalene (F)
7.270	VV	154.79007	62.87797	9732.88474		2-Methylnaphthalene
7.655	VV	234.63596	41.53818	9746.35004		Acenaphthene
8.180	VB	254.35931	7.61197	1936.17458		Fluorene
9.308	BB	137.84933	7.16019	987.02705		Phenanthrene
10.329	BB	432.64206	2.42452	1048.95086		Anthracene
11.485	BV	81.53288	24.47091	1995.18350		Fluoranthene
12.252	VB	138.32648	7.51570	1039.62037		Pyrene
15.089	BV	151.99316	6.58692	1001.16622		Benzo(a)anthracene
15.588	VB	180.56219	5.39615	974.33987		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.835	BB	129.20119	14.95172	1931.78042		Benzo(b)fluoranthene
18.792	BB	392.59399	2.54405	998.77704		Benzo(k)fluoranthene
19.740	BB	214.33957	4.65366	997.46401		Benzo(a)pyrene
21.361	VV	63.13339	31.50868	1989.24982		Dibenz(a,h)anthracene
22.141	VV	123.19981	15.73356	1938.37214		Benzo(g,h,i)perylene
22.650	VB	99.28861	10.34723	1027.36199		Indeno(1,2,3-cd)pyrene

Totals : 8.45748e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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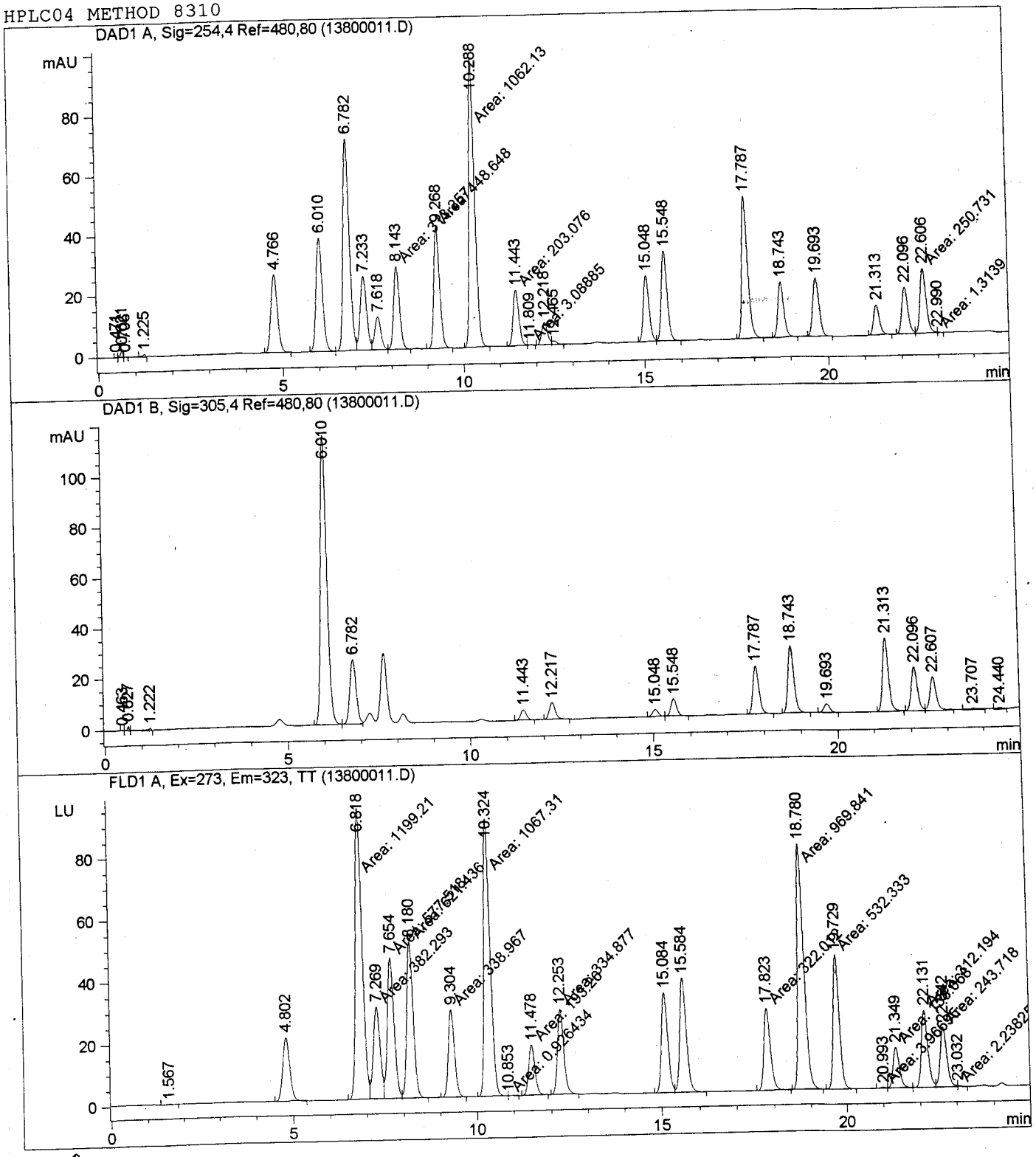
*** End of Report ***

Data File G:\HPLC4\DATA\13800011.D

Sample Name: ICAL,S3060

Injection Date	: 5/18/2006 10:31:01 PM	Seq. Line	: 11
Sample Name	: ICAL,S3060	Location	: Vial 11
Acq. Operator	:	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 5/22/2006 3:21:32 PM (modified after loading)		

HPLC04 METHOD 8310



Cjm 22MAY 2006

HPLC 4 5/22/2006 3:27:30 PM

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, May 22, 2006 3:21:31 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.766	BB	323.77454	77.03473	2.49419e4		Naphthalene
6.010	BP	462.20984	108.95921	5.03620e4		Acenaphthylene
6.782	VV	839.48529	118.81344	9.97421e4		1-Methylnaphthalene (UV)
7.233	VV	297.53644	86.84626	2.58399e4		2-Methylnaphthalene
7.618	VV	131.16444	199.10257	2.61152e4		Acenaphthene
8.143	MF	313.25665	15.90514	4982.38958		Fluorene
9.268	MM	448.64795	5.57507	2501.24265		Phenanthrene
10.288	MM	1062.12512	2.45979	2612.60556		Anthracene
11.443	MF	203.07642	24.36420	4947.79342		Fluoranthene
12.218	BV	83.91055	29.83193	2503.21375		Pyrene
15.048	BV	236.18423	10.90322	2575.16825		Benzo(a)anthracene
15.548	VB	334.09467	7.50045	2505.86040		Chrysene
17.787	BB	532.37317	9.38267	4995.07946		Benzo(b)fluoranthene
18.743	BB	208.88004	12.30105	2569.44342		Benzo(k)fluoranthene
19.693	BB	220.13969	11.51181	2534.20720		Benzo(a)pyrene
21.313	BP	110.60422	46.44187	5136.66707		Dibenz(a,h)anthracene
22.096	BV	181.34886	28.06000	5088.64952		Benzo(g,h,i)perylene
22.606	MF	250.73134	10.47541	2626.51304		Indeno(1,2,3-cd)pyrene

Totals : 2.72580e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.010	BV	1390.57104	35.87315	4.98842e4		Acenaphthylene
6.782	VV	304.35931	328.83554	1.00084e5		1-Methylnaphthalene (UV)

Totals : 1.49968e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.802	BB	274.47531	86.40738	2.37167e4		Naphthalene
6.818	MF	1199.20923	78.75727	9.44464e4		1-Methylnaphthalene (F)
7.269	MF	382.29327	63.42093	2.42454e4		2-Methylnaphthalene
7.654	MF	577.51837	41.92597	2.42130e4		Acenaphthene
8.180	FM	621.43634	7.70284	4786.82712		Fluorene
9.304	MM	338.96707	7.22229	2448.12001		Phenanthrene
10.324	MF	1067.30798	2.42183	2584.83993		Anthracene
11.478	MM	193.25951	24.60893	4755.90941		Fluoranthene
12.253	MM	334.87701	7.52983	2521.56751		Pyrene
15.084	BV	377.89438	6.59466	2492.08549		Benzo(a)anthracene
15.584	VB	448.13257	5.42929	2433.04015		Chrysene

Data File G:\HPLC4\DATA\13800011.D

Sample Name: ICAL,S3060

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.823	MM	322.01157	15.00203	4830.82609		Benzo(b)fluoranthene
18.780	MF	969.84100	2.55700	2479.88194		Benzo(k)fluoranthene
19.729	FM	532.33307	4.66865	2485.27878		Benzo(a)pyrene
21.349	MF	158.06801	31.38061	4960.27030		Dibenz(a,h)anthracene
22.131	MF	312.19437	15.73373	4911.98087		Benzo(g,h,i)perylene
22.642	FM	243.71762	10.29974	2510.22694		Indeno(1,2,3-cd)pyrene
Totals :				2.10822e5		

Results obtained with enhanced integrator!

*** End of Report ***

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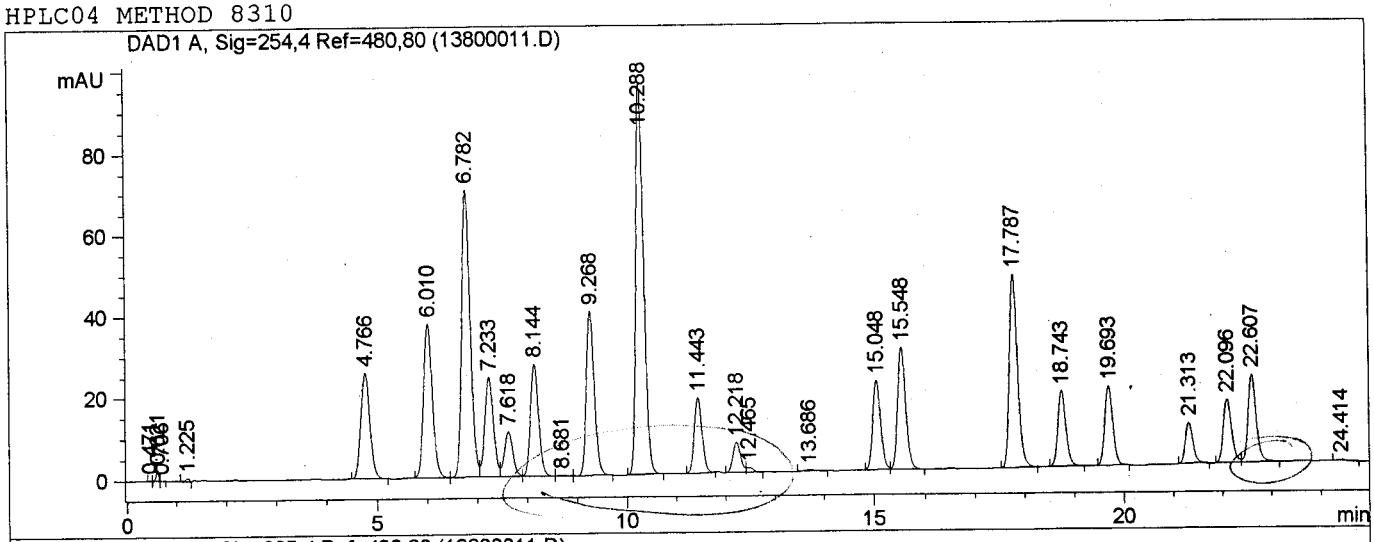
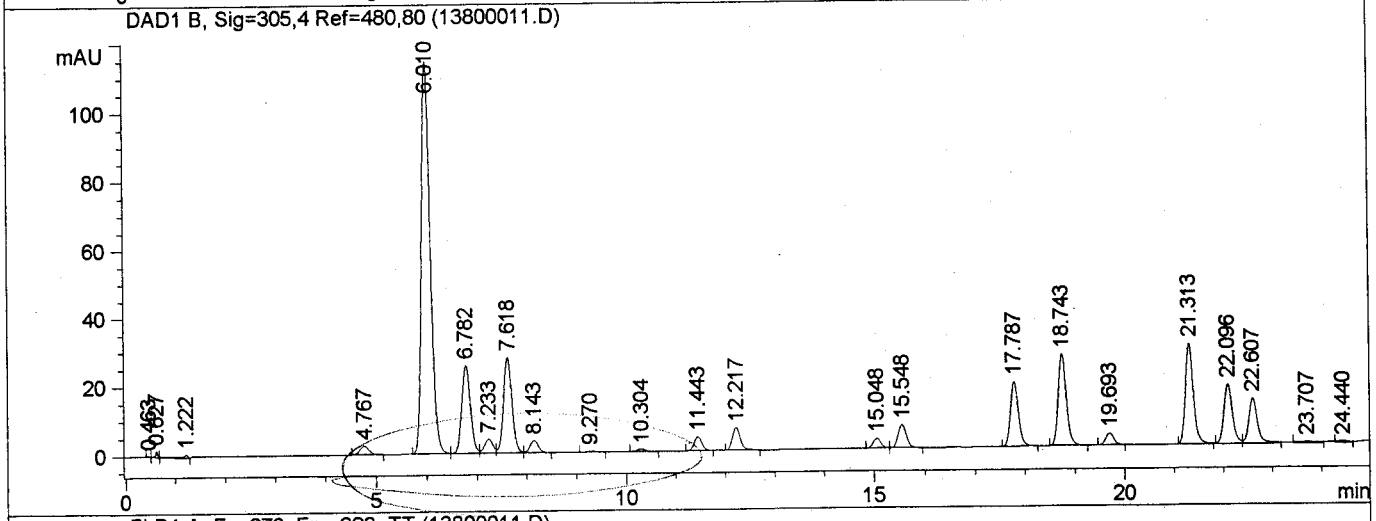
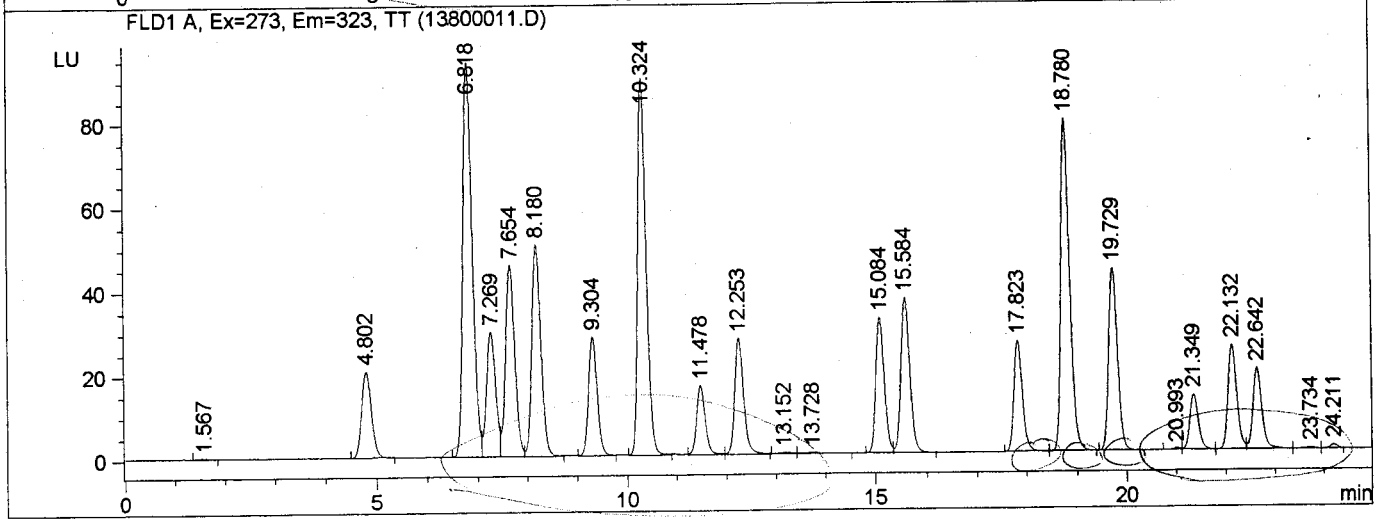
Injection Date : 5/18/2006 10:31:01 PM
Sample Name : ICAL,S3060
Acq. Operator :
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\051806.S
Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL
HPLC04 METHOD 8310

Seq. Line : 11
Location : Vial 11
Inj : 1
Inj Volume : 10 µl







External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.766	BB	323.77454	77.04174	2.49442e4		Naphthalene
6.010	BP	462.20984	108.96101	5.03629e4		Acenaphthylene
6.782	VV	839.48529	118.81516	9.97436e4		1-Methylnaphthalene (UV)
7.233	VV	297.53644	87.16540	2.59349e4		2-Methylnaphthalene
7.618	VV	131.16444	199.69775	2.61932e4		Acenaphthene
8.144	VB	313.39435	15.89704	4982.04190		Fluorene
9.268	VP	448.48541	5.57580	2500.66337		Phenanthrene
10.288	BB	1061.97949	2.46834	2621.32432		Anthracene
11.443	BB	203.57274	24.34938	4956.87079		Fluoranthene
12.218	BV	83.91055	29.88551	2507.70959		Pyrene
15.048	BV	236.18423	10.93811	2583.40986		Benzo(a)anthracene
15.548	VB	334.09467	7.50657	2507.90488		Chrysene
17.787	BB	532.37317	9.38338	4995.45759		Benzo(b)fluoranthene
18.743	BB	208.88004	12.33952	2577.47867		Benzo(k)fluoranthene
19.693	BB	220.13969	11.52826	2537.82663		Benzo(a)pyrene
21.313	BP	110.60422	46.58184	5152.14743		Dibenz(a,h)anthracene
22.096	BV	181.34886	28.08822	5093.76675		Benzo(g,h,i)perylene
22.607	VB	252.14905	10.52056	2652.74918		Indeno(1,2,3-cd)pyrene

Totals : 2.72848e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.010	BV	1390.57104	35.88040	4.98942e4		Acenaphthylene
6.782	VV	304.35931	328.86140	1.00092e5		1-Methylnaphthalene (UV)

Totals : 1.49986e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.802	BB	274.47531	85.88502	2.35733e4		Naphthalene
6.818	BV	1198.31677	78.02871	9.35031e4		1-Methylnaphthalene (F)
7.269	VV	383.06503	63.11886	2.41786e4		2-Methylnaphthalene
7.654	VV	579.99280	41.70325	2.41876e4		Acenaphthene
8.180	VB	625.75739	7.65378	4789.40940		Fluorene
9.304	BB	344.67456	7.19843	2481,11505		Phenanthrene
10.324	BB	1075.74207	2.42800	2611.90128		Anthracene
11.478	BV	202.66354	24.49057	4963.34569		Fluoranthene
12.253	VB	346.76657	7.52516	2609.47292		Pyrene
15.084	BV	377.89438	6.59224	2491.17223		Benzo(a)anthracene
15.584	VB	448.13257	5.41370	2426.05403		Chrysene

Data File G:\HPLC4\DATA\13800011.D

Sample Name: ICAL,S3060

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.823	BV	322.26624	14.95346	4818.99407		Benzo(b)fluoranthene
18.780	VB	971.35138	2.55497	2481.77271		Benzo(k)fluoranthene
19.729	BB	534.24500	4.66449	2491.98169		Benzo(a)pyrene
21.349	VV	159.44664	31.36788	5001.50353		Dibenz(a,h)anthracene
22.132	VV	312.34949	15.69181	4901.32775		Benzo(g,h,i)perylene
22.642	VP	247.08812	10.31012	2547.50745		Indeno(1,2,3-cd)pyrene
Totals :				2.10058e5		

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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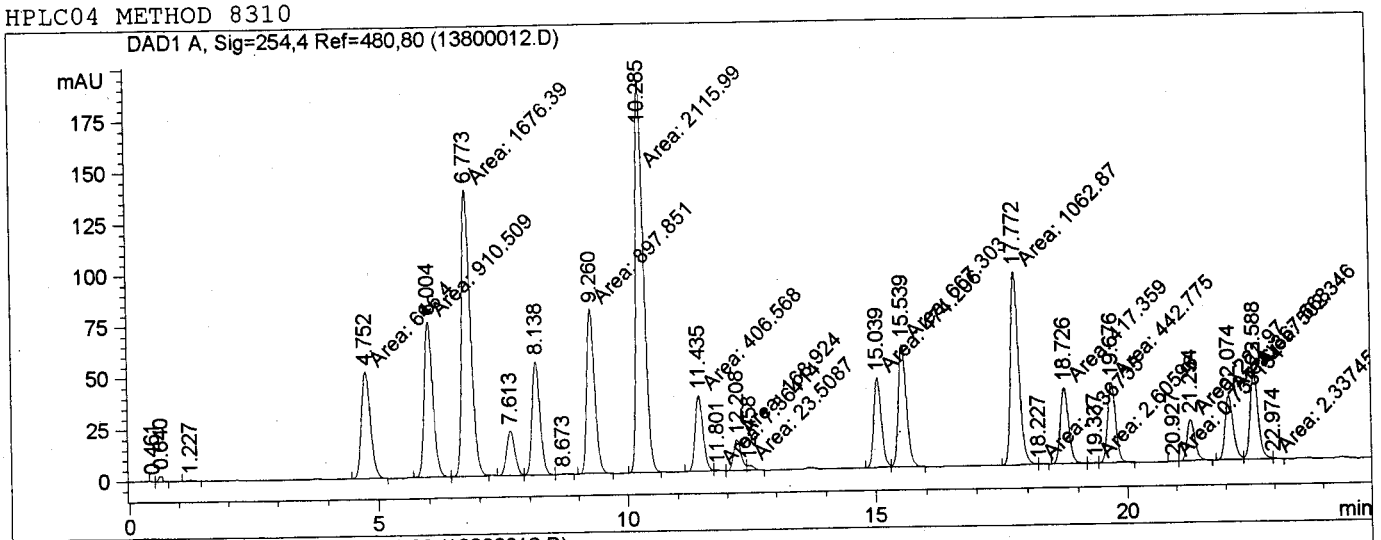
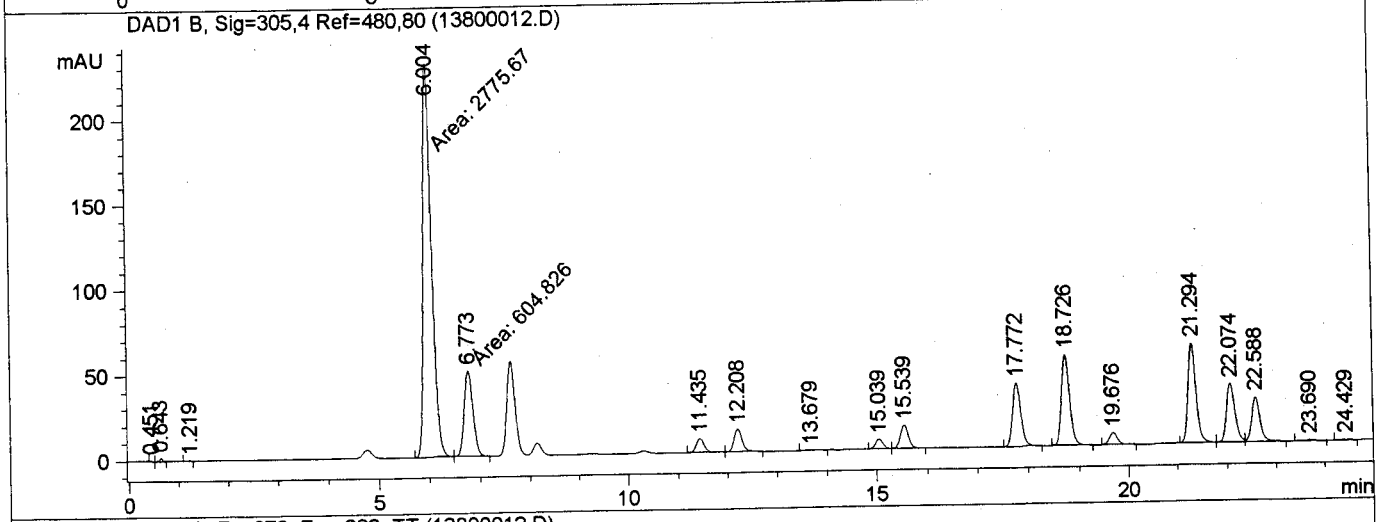
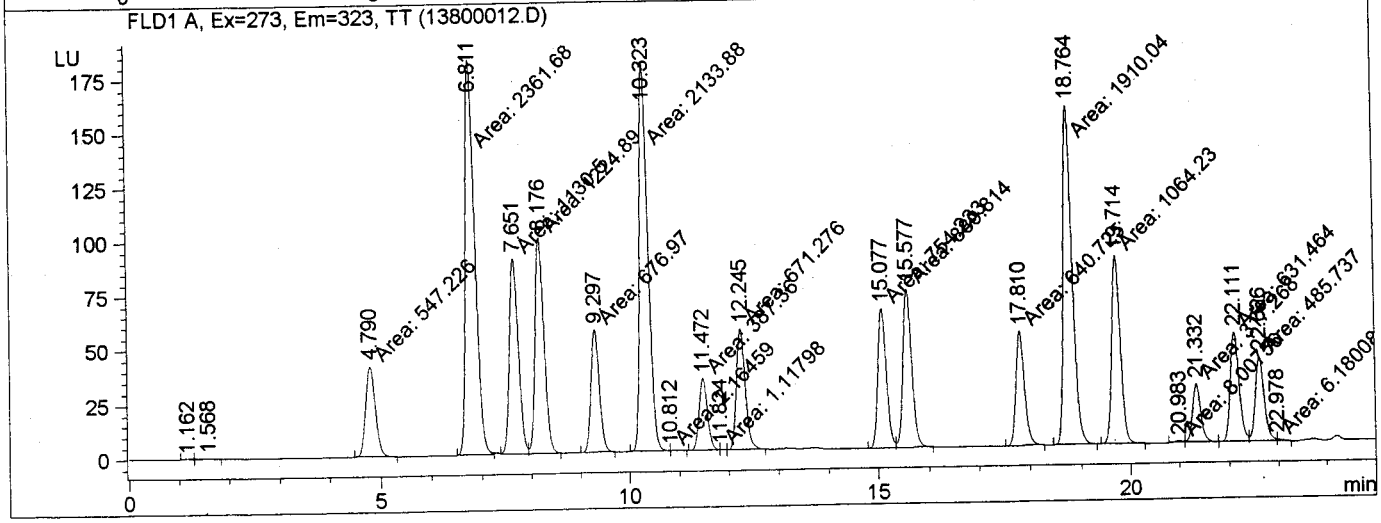
Injection Date : 5/18/2006 11:02:39 PM
Sample Name : ICAL,S3059
Acq. Operator :
Acq. Instrument : HPLC 4
Acq. Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL
Analysis Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 5/22/2006 3:28:39 PM
(modified after loading)

Seq. Line : 12
Location : Vial 12
Inj : 1
Inj Volume : 10 µl

HPLC04 METHOD 8310







Jm 22MAY2006

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, May 22, 2006 3:28:38 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.752	MF	646.40033	77.07612	4.98220e4		Naphthalene
6.004	FM	910.50854	109.18851	9.94171e4		Acenaphthylene
6.773	MF	1676.38977	118.98882	1.99472e5		1-Methylnaphthalene (UV)
7.233		-	-	-		2-Methylnaphthalene
7.613	VV	254.87729	198.40751	5.05696e4		Acenaphthene
8.138	VV	624.78467	15.90421	9936.70941		Fluorene
9.260	MM	897.85052	5.57146	5002.33922		Phenanthrene
10.285	MM	2115.98950	2.44709	5178.02103		Anthracene
11.435	MF	406.56757	24.35786	9903.11580		Fluoranthene
12.208	MF	168.92415	29.76318	5027.71993		Pyrene
15.039	MF	474.20624	10.83458	5137.82420		Benzo(a)anthracene
15.539	FM	667.30255	7.48652	4995.77581		Chrysene
17.772	MF	1062.87402	9.37069	9959.86236		Benzo(b)fluoranthene
18.726	MF	417.35922	12.22679	5102.96369		Benzo(k)fluoranthene
19.676	FM	442.77490	11.46298	5075.52159		Benzo(a)pyrene
21.294	FM	222.97006	46.12782	1.02851e4		Dibenz(a,h)anthracene
22.074	MF	367.56784	27.89437	1.02531e4		Benzo(g,h,i)perylene
22.588	MF	502.34595	10.39287	5220.81462		Indeno(1,2,3-cd)pyrene

Totals : 4.90359e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.004	MF	2775.66528	35.86107	9.95383e4		Acenaphthylene
6.773	FM	604.82648	328.74202	1.98832e5		1-Methylnaphthalene (UV)

Totals : 2.98370e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.790	MM	547.22638	87.08962	4.76577e4		Naphthalene
6.811	MF	2361.67969	83.32765	1.96793e5		1-Methylnaphthalene (F)
7.269		-	-	-		2-Methylnaphthalene
7.651	MF	1130.49866	43.28515	4.89338e4		Acenaphthene
8.176	FM	1224.89038	8.04138	9849.80577		Fluorene
9.297	MM	676.96960	7.24241	4902.89295		Phenanthrene
10.323	MF	2133.87500	2.41150	5145.83830		Anthracene
11.472	MF	387.35989	24.72890	9578.98339		Fluoranthene
12.245	FM	671.27612	7.50107	5035.28740		Pyrene
15.077	MF	754.23340	6.59027	4970.60031		Benzo(a)anthracene
15.577	FM	889.81403	5.44895	4848.55299		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.810	MF	640.72485	15.04099	9637.13468		Benzo(b)fluoranthene
18.764	MF	1910.04431	2.56418	4897.69612		Benzo(k)fluoranthene
19.714	FM	1064.23083	4.67173	4971.79629		Benzo(a)pyrene
21.332	MF	317.26797	31.32419	9938.16173		Dibenz(a,h)anthracene
22.111	MF	631.46387	15.72006	9926.65107		Benzo(g,h,i)perylene
22.626	MF	485.73682	10.27600	4991.42935		Indeno(1,2,3-cd)pyrene
Totals :				3.82080e5		

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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*** End of Report ***

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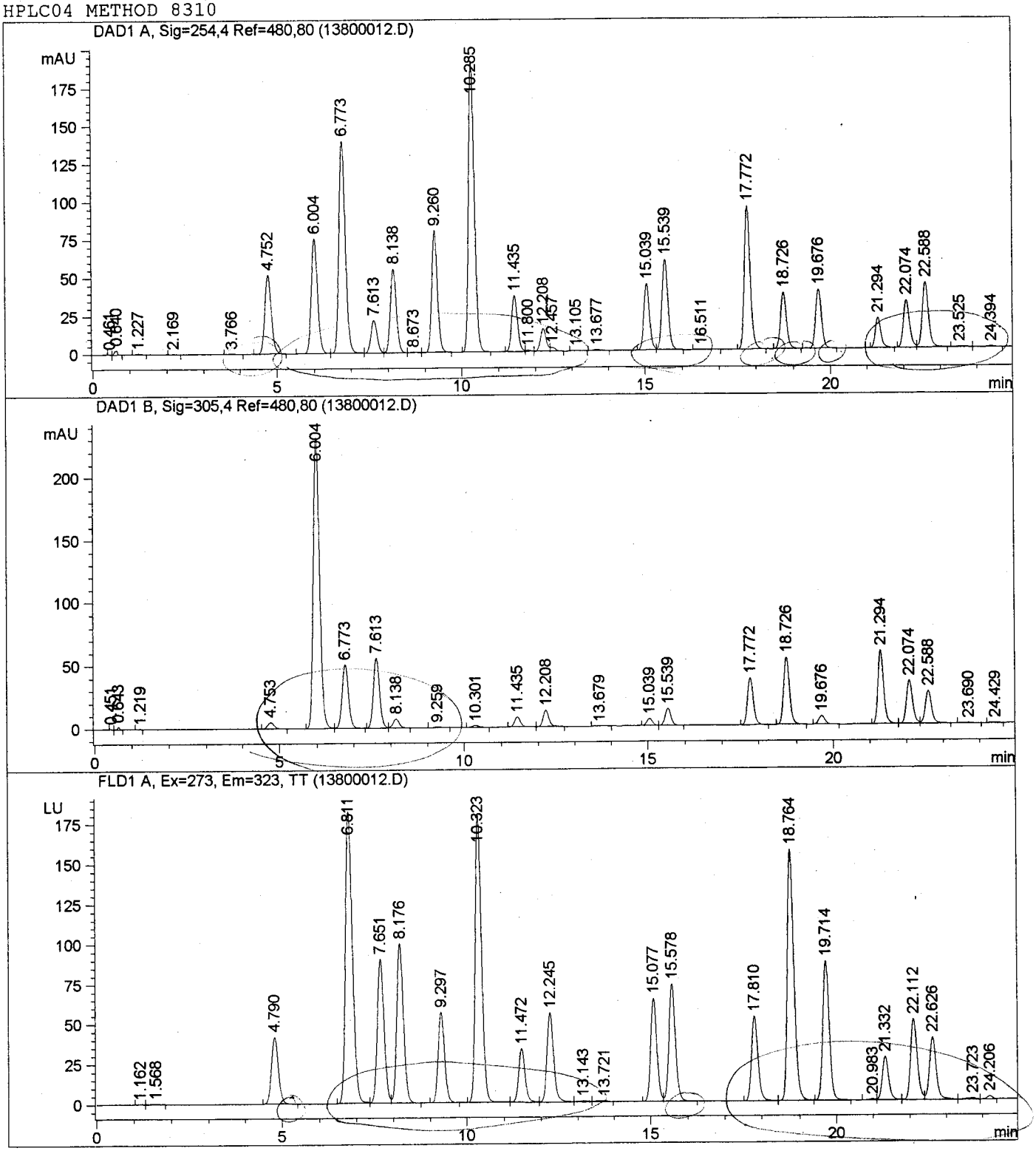
Injection Date : 5/18/2006 11:02:39 PM
Sample Name : ICAL,S3059
Acq. Operator :
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\051806.S
Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL
HPLC04 METHOD 8310

Seq. Line : 12
Location : Vial 12
Inj : 1
Inj Volume : 10 µl



External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.752	BB	647.11890	77.07988	4.98798e4		Naphthalene
6.004	BV	912.25122	109.18989	9.96086e4		Acenaphthylene
6.773	VV	1680.09778	118.97171	1.99884e5		1-Methylnaphthalene (UV)
7.280		-	-	-		2-Methylnaphthalene
7.613	VV	254.87729	200.01456	5.09792e4		Acenaphthene
8.138	VV	624.78467	15.90159	9935.07086		Fluorene
9.260	VP	897.27557	5.57725	5004.33135		Phenanthrene
10.285	BB	2119.75391	2.46996	5235.70870		Anthracene
11.435	BV	408.83698	24.33764	9950.12774		Fluoranthene
12.208	VV	170.09651	29.83382	5074.62814		Pyrene
15.039	BV	473.34891	10.92504	5171.35520		Benzo(a)anthracene
15.539	VB	667.50586	7.50261	5008.03940		Chrysene
17.772	BB	1063.61365	9.37834	9974.92650		Benzo(b)fluoranthene
18.726	BB	418.83893	12.31779	5159.16865		Benzo(k)fluoranthene
19.676	BB	446.29416	11.50956	5136.65018		Benzo(a)pyrene
21.294	BB	225.02155	46.44878	1.04520e4		Dibenz(a,h)anthracene
22.074	BV	371.40533	28.03933	1.04140e4		Benzo(g,h,i)perylene
22.588	VB	515.19666	10.50293	5411.07420		Indeno(1,2,3-cd)pyrene

Totals : 4.92279e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.004	BV	2778.81055	35.87769	9.96973e4		Acenaphthylene
6.773	VB	611.06848	329.06802	2.01083e5		1-Methylnaphthalene (UV)

Totals : 3.00780e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.790	PB	547.48273	86.05693	4.71147e4		Naphthalene
6.811	BV	2369.09570	78.21735	1.85304e5		1-Methylnaphthalene (F)
7.335		-	-	-		2-Methylnaphthalene
7.651	VV	1133.23621	41.75800	4.73217e4		Acenaphthene
8.176	VB	1233.21008	7.66789	9456.11427		Fluorene
9.297	BB	689.82300	7.21118	4974.43826		Phenanthrene
10.323	BV	2161.75854	2.42917	5251.28847		Anthracene
11.472	VV	409.37646	24.49725	1.00286e4		Fluoranthene
12.245	VB	697.09406	7.52831	5247.94082		Pyrene
15.077	BV	753.48712	6.59403	4968.51811		Benzo(a)anthracene
15.578	VB	891.79449	5.41959	4832.16022		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.810	BV	642.02924	14.95403	9600.92695		Benzo(b)fluoranthene
18.764	VB	1914.31885	2.55862	4898.01258		Benzo(k)fluoranthene
19.714	BB	1070.08130	4.66813	4995.27412		Benzo(a)pyrene
21.332	VV	322.53784	31.32121	1.01023e4		Dibenz(a,h)anthracene
22.112	VV	634.13263	15.67801	9941.93455		Benzo(g,h,i)perylene
22.626	VV	498.78516	10.29754	5136.25837		Indeno(1,2,3-cd)pyrene
Totals :				3.69175e5		

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8310

Inst : HPLC04
Seqnum : 296199754015
Cal : 296199754001
Standards: S3051

Run Name: ICV
File : 13800015
Caldate : 18-MAY-2006

IDF : 1.0
Time : 19-MAY-2006 00:37

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1	0.0130	0.0134	5000	5126	ug/L	3	15	
Acenaphthylene	1	0.0093	0.0100	10000	10680	ug/L	7	15	
2-Methylnaphthalene	1	0.0120	0.0114	20000	19140	ug/L	-4	15	
Acenaphthene	1	0.0052	0.0057	5000	5392	ug/L	8	15	
Fluorene	1	0.0627	0.0646	1000	1028	ug/L	3	15	
Phenanthrene	1	0.1800	0.1815	500.0	503.1	ug/L	1	15	
Anthracene	1	0.4248	0.4384	500.0	513.4	ug/L	3	15	
Fluoranthene	1	0.0409	0.0422	1000	1034	ug/L	3	15	
Pyrene	1	0.0342	0.0343	500.0	508.5	ug/L	2	15	
Benzo(a)anthracene	1	0.0943	0.0969	500.0	511.5	ug/L	2	15	
Chrysene	1	0.1335	0.1357	500.0	505.0	ug/L	1	15	
Benzo(b)fluoranthene	1	0.1059	0.1090	1000	1023	ug/L	2	15	
Benzo(k)fluoranthene	1	0.0821	0.0850	500.0	510.7	ug/L	2	15	
Benzo(a)pyrene	1	0.0870	0.0890	500.0	508.4	ug/L	2	15	
Dibenz(a,h)anthracene	1	0.0212	0.0222	1000	1017	ug/L	2	15	
Benzo(g,h,i)perylene	1	0.0351	0.0359	1000	1004	ug/L	0	15	
Indeno(1,2,3-cd)pyrene	1	0.0976	0.1026	500.0	515.2	ug/L	3	15	
Acenaphthylene	2	0.0279	0.0285	10000	10180	ug/L	2	15	
Naphthalene	3	0.0110	0.0113	5000	5130	ug/L	3	15	
2-Methylnaphthalene	3	0.0155	0.0147	20000	19170	ug/L	-4	15	
Acenaphthene	3	0.0233	0.0248	5000	5302	ug/L	6	15	
Fluorene	3	0.1263	0.1289	1000	1020	ug/L	2	15	
Phenanthrene	3	0.1362	0.1386	500.0	508.6	ug/L	2	15	
Anthracene	3	0.4263	0.4399	500.0	513.7	ug/L	3	15	
Fluoranthene	3	0.0387	0.0407	1000	1050	ug/L	5	15	
Pyrene	3	0.1332	0.1384	500.0	517.2	ug/L	3	15	
Benzo(a)anthracene	3	0.1515	0.1558	500.0	512.8	ug/L	3	15	
Chrysene	3	0.1803	0.1841	500.0	509.6	ug/L	2	15	
Benzo(b)fluoranthene	3	0.0643	0.0664	1000	1027	ug/L	3	15	
Benzo(k)fluoranthene	3	0.3904	0.4029	500.0	513.5	ug/L	3	15	
Benzo(a)pyrene	3	0.2132	0.2200	500.0	513.9	ug/L	3	15	
Dibenz(a,h)anthracene	3	0.0311	0.0322	1000	1025	ug/L	3	15	
Benzo(g,h,i)perylene	3	0.0613	0.0619	1000	1004	ug/L	0	15	
Indeno(1,2,3-cd)pyrene	3	0.0971	0.1010	500.0	517.9	ug/L	4	15	

ICV SATISFIES SOP. [illegible] 22MAY 2006

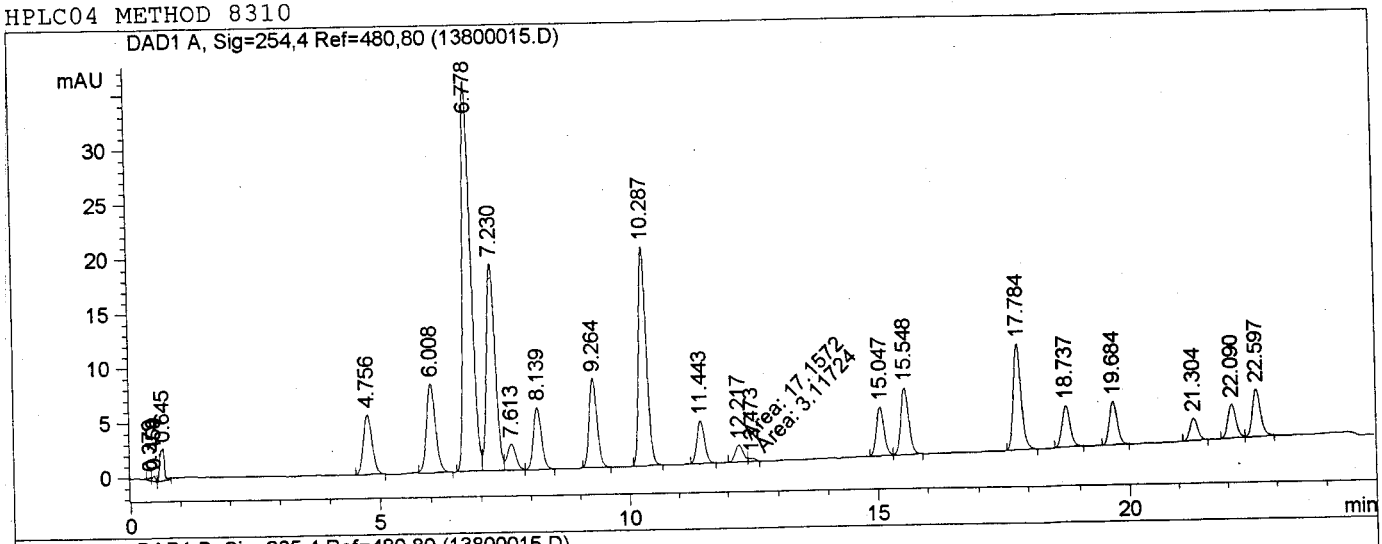
[illegible] 5/23/06

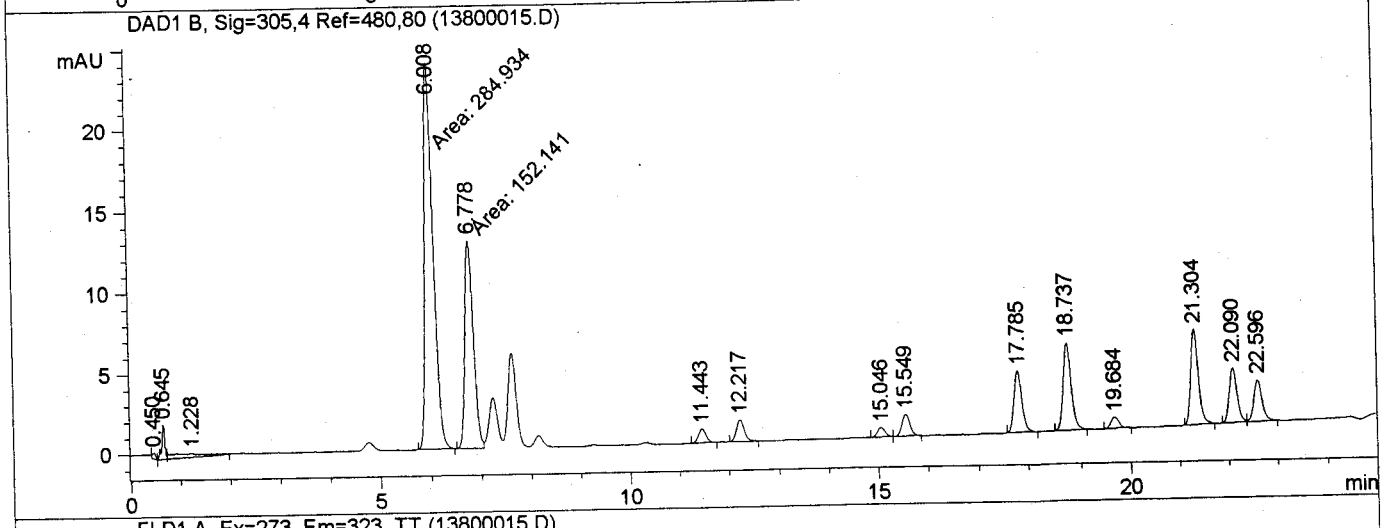
Data File G:\HPLC4\DATA\13800015.D

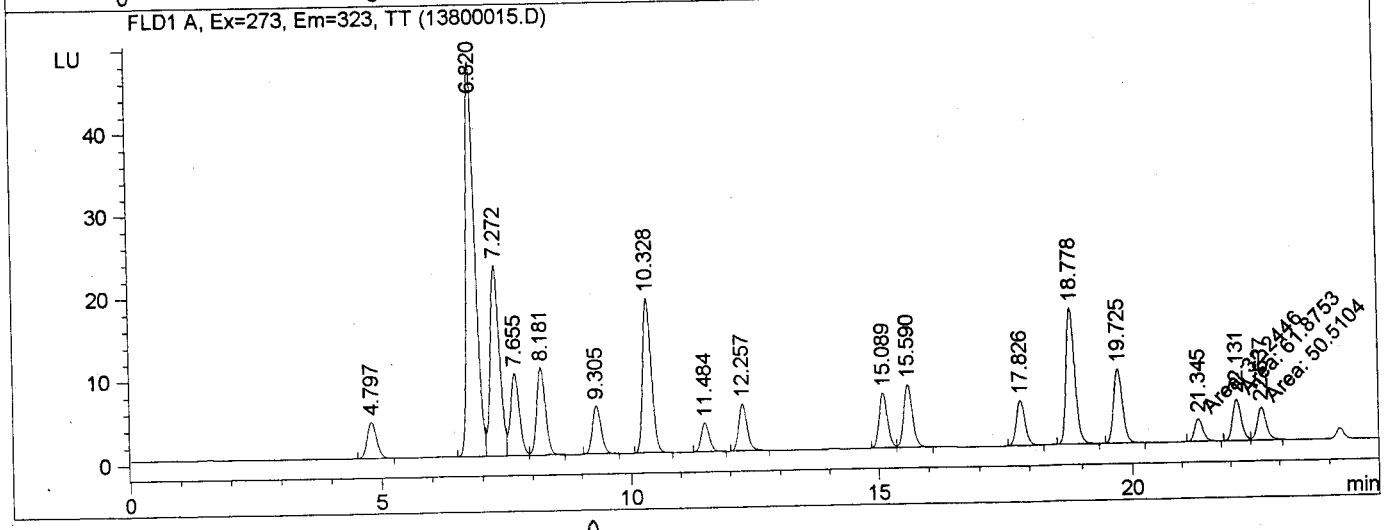
Sample Name: ~~IVC~~, S3051
ICU
22MAY2006

Injection Date : 5/19/2006 12:37:31 AM
Sample Name : ~~IVC~~, S3051
Acq. Operator : ICU
Acq. Instrument : HPLC 4
Acq. Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL
Analysis Method : G:\HPLC4\METHODS\8310-138.M
Last changed : 5/22/2006 4:18:07 PM
HPLC04 METHOD 8310

Seq. Line : 15
Location : Vial 15
Inj : 1
Inj Volume : 10 µl







ICU SATISFIES SOP. 22MAY2006

HPLC 4 5/22/2006 4:29:01 PM

ICV

External Standard Report

Sorted By : Signal
Calib. Data Modified : 5/22/2006 4:16:03 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.756	BB	66.89763	76.61951	5125.66337		Naphthalene
6.008	BP	99.69094	107.09408	1.06763e4		Acenaphthylene
6.778	BV	422.50162	118.65727	5.01329e4		1-Methylnaphthalene (UV)
7.230	VV	228.17683	83.86995	1.91372e4		2-Methylnaphthalene
7.613	VV	28.50307	189.16327	5391.73432		Acenaphthene
8.139	VB	64.60548	15.91564	1028.23781		Fluorene
9.264	BB	90.76343	5.54277	503.08077		Phenanthrene
10.287	BB	219.20799	2.34216	513.41960		Anthracene
11.443	BB	42.15321	24.52935	1033.99081		Fluoranthene
12.217	MF	17.15724	29.63733	508.49494		Pyrene
15.047	BV	48.43151	10.56164	511.51601		Benzo(a)anthracene
15.548	VB	67.83893	7.44466	505.03774		Chrysene
17.784	BB	109.01851	9.38055	1022.65403		Benzo(b)fluoranthene
18.737	BB	42.51260	12.01205	510.66345		Benzo(k)fluoranthene
19.684	BB	44.49632	11.42654	508.43885		Benzo(a)pyrene
21.304	BB	22.17400	45.86925	1017.10501		Dibenz(a,h)anthracene
22.090	BV	35.88884	27.98662	1004.40740		Benzo(g,h,i)perylene
22.597	VB	51.30901	10.04040	515.16292		Indeno(1,2,3-cd)pyrene

Totals : 9.96460e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.008	MM	284.93390	35.74482	1.01849e4		Acenaphthylene
6.778	MF	152.14120	328.83023	5.00286e4		1-Methylnaphthalene (UV)

Totals : 6.02135e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.797	BB	56.67323	90.51572	5129.81808		Naphthalene
6.820	BV	603.44818	83.61149	5.04552e4		1-Methylnaphthalene (F)
7.272	VV	293.75247	65.24969	1.91673e4		2-Methylnaphthalene
7.655	VV	123.98242	42.76725	5302.38768		Acenaphthene
8.181	VB	128.89386	7.91626	1020.35751		Fluorene
9.305	BB	69.28621	7.34027	508.57930		Phenanthrene
10.328	BB	219.93626	2.33570	513.70608		Anthracene
11.484	BB	40.71990	25.79101	1050.20736		Fluoranthene
12.257	BB	69.18472	7.47558	517.19568		Pyrene
15.089	BV	77.91756	6.58126	512.79564		Benzo(a)anthracene
15.590	VB	92.06094	5.53512	509.56802		Chrysene

Data File G:\HPLC4\DATA\13800015.D

Sample Name: ~~IVC~~, S3051
ICV

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.826	BB	66.37421	15.46740	1026.63634		Benzo(b)fluoranthene
18.778	BB	201.46185	2.54877	513.48027		Benzo(k)fluoranthene
19.725	BB	109.98317	4.67286	513.93558		Benzo(a)pyrene
21.345	FM	32.24464	31.79133	1025.10001		Dibenz(a,h)anthracene
22.131	MF	61.87526	16.22339	1003.82666		Benzo(g,h,i)perylene
22.637	MF	50.51044	10.25364	517.91615		Indeno(1,2,3-cd)pyrene
Totals :				8.92880e4		

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

ICV
22MAY2006

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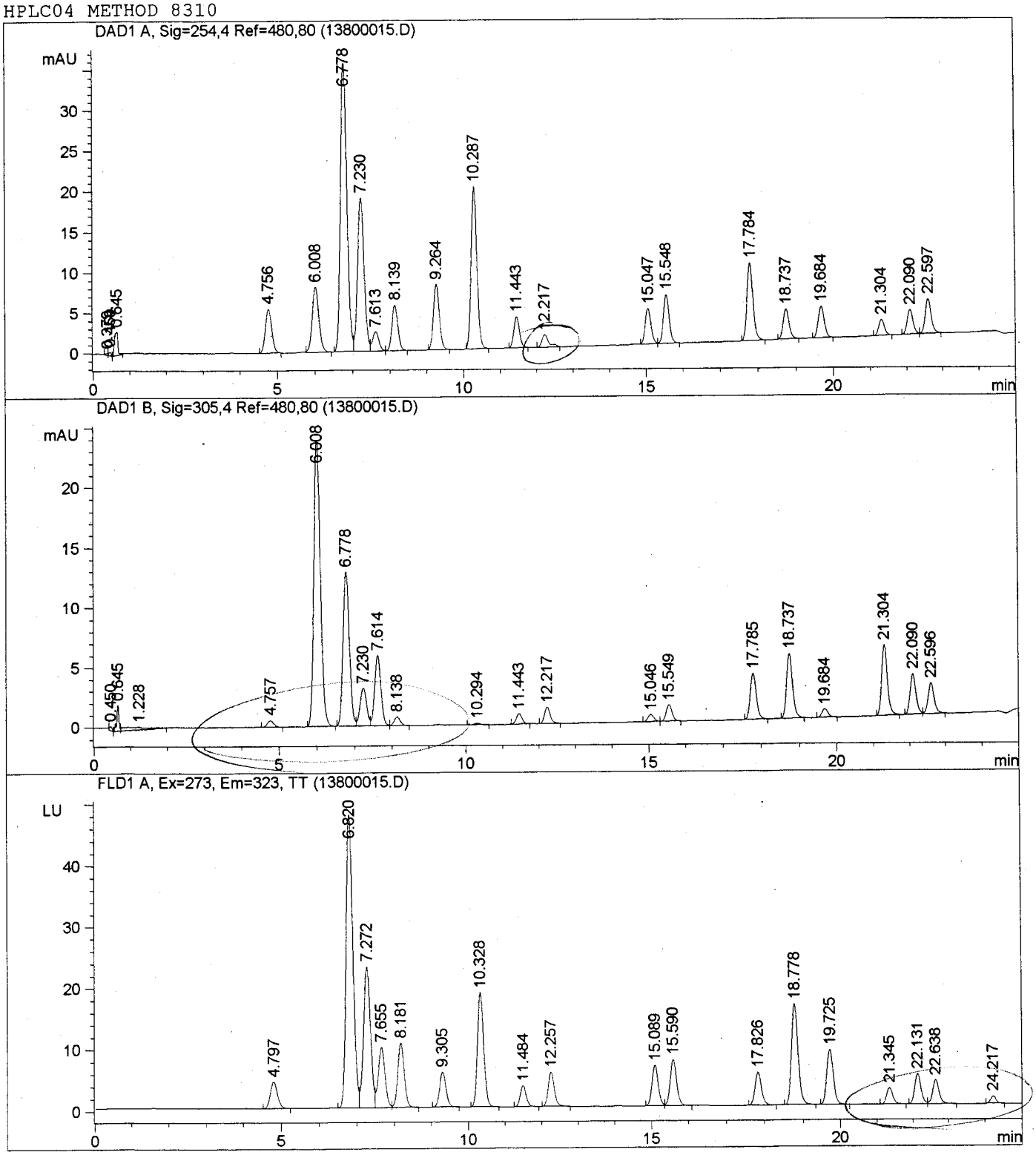
Injection Date : 5/19/2006 12:37:31 AM
Sample Name : ~~IVC,~~S3051
Acq. Operator : ICV
Acq. Instrument : HPLC 4
Acq. Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL
Analysis Method : G:\HPLC4\METHODS\8310-138.M
Last changed : 5/22/2006 4:18:07 PM
HPLC04 METHOD 8310

Seq. Line : 15
Location : Vial 15
Inj : 1
Inj Volume : 10 µl



External Standard Report

Sorted By : Signal
Calib. Data Modified : 5/22/2006 4:16:03 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.756	BB	66.89763	76.61951	5125.66337		Naphthalene
6.008	BP	99.69094	107.09408	1.06763e4		Acenaphthylene
6.778	BV	422.50162	118.65727	5.01329e4		1-Methylnaphthalene (UV)
7.230	VV	228.17683	83.86995	1.91372e4		2-Methylnaphthalene
7.613	VV	28.50307	189.16327	5391.73432		Acenaphthene
8.139	VB	64.60548	15.91564	1028.23781		Fluorene
9.264	BB	90.76343	5.54277	503.08077		Phenanthrene
10.287	BB	219.20799	2.34216	513.41960		Anthracene
11.443	BB	42.15321	24.52935	1033.99081		Fluoranthene
12.217	BB	20.27144	29.63766	600.79805		Pyrene
15.047	BV	48.43151	10.56164	511.51601		Benzo(a)anthracene
15.548	VB	67.83893	7.44466	505.03774		Chrysene
17.784	BB	109.01851	9.38055	1022.65403		Benzo(b)fluoranthene
18.737	BB	42.51260	12.01205	510.66345		Benzo(k)fluoranthene
19.684	BB	44.49632	11.42654	508.43885		Benzo(a)pyrene
21.304	BB	22.17400	45.86925	1017.10501		Dibenz(a,h)anthracene
22.090	BV	35.88884	27.98662	1004.40740		Benzo(g,h,i)perylene
22.597	VB	51.30901	10.04040	515.16292		Indeno(1,2,3-cd)pyrene

Totals : 9.97383e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.008	BB	285.72659	35.74565	1.02135e4		Acenaphthylene
6.778	BV	152.51297	328.83485	5.01516e4		1-Methylnaphthalene (UV)

Totals : 6.03651e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.797	BB	56.67323	90.51572	5129.81808		Naphthalene
6.820	BV	603.44818	83.61149	5.04552e4		1-Methylnaphthalene (F)
7.272	VV	293.75247	65.24969	1.91673e4		2-Methylnaphthalene
7.655	VV	123.98242	42.76725	5302.38768		Acenaphthene
8.181	VB	128.89386	7.91626	1020.35751		Fluorene
9.305	BB	69.28621	7.34027	508.57930		Phenanthrene
10.328	BB	219.93626	2.33570	513.70608		Anthracene
11.484	BB	40.71990	25.79101	1050.20736		Fluoranthene
12.257	BB	69.18472	7.47558	517.19568		Pyrene
15.089	BV	77.91756	6.58126	512.79564		Benzo(a)anthracene
15.590	VB	92.06094	5.53512	509.56802		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.826	BB	66.37421	15.46740	1026.63634		Benzo(b)fluoranthene
18.778	BB	201.46185	2.54877	513.48027		Benzo(k)fluoranthene
19.725	BB	109.98317	4.67286	513.93558		Benzo(a)pyrene
21.345	VB	32.39024	31.79005	1029.68745		Dibenz(a,h)anthracene
22.131	BV	61.95169	16.22291	1005.03659		Benzo(g,h,i)perylene
22.638	VB	50.87698	10.25391	521.68790		Indeno(1,2,3-cd)pyrene

Totals : 8.92975e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187020 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: L IDF : 1.0
Seqnum : 296210939002 File : 14600002 Time : 26-MAY-2006 12:10
Cal : 296199754001 Caldate : 18-MAY-2006
Standards: S3190

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0128	2500	2426	ug/L	-3	15	
Acenaphthylene	1	0.0093	0.0092	5000	4779	ug/L	-4	15	
Acenaphthene	1	0.0052	0.0053	2500	2392	ug/L	-4	15	
Fluorene	1	0.0627	0.0613	500.0	484.8	ug/L	-3	15	
Phenanthrene	1	0.1800	0.1741	250.0	239.9	ug/L	-4	15	
Anthracene	1	0.4248	0.4082	250.0	236.6	ug/L	-5	15	
Fluoranthene	1	0.0409	0.0402	500.0	491.6	ug/L	-2	15	
Pyrene	1	0.0342	0.0323	250.0	239.6	ug/L	-4	15	
Benzo(a)anthracene	1	0.0943	0.0905	250.0	239.4	ug/L	-4	15	
Chrysene	1	0.1335	0.1296	250.0	239.4	ug/L	-4	15	
Benzo(b)fluoranthene	1	0.1059	0.1028	500.0	480.7	ug/L	-4	15	
Benzo(k)fluoranthene	1	0.0821	0.0797	250.0	240.3	ug/L	-4	15	
Benzo(a)pyrene	1	0.0870	0.0852	250.0	246.6	ug/L	-1	15	
Dibenz(a,h)anthracene	1	0.0212	0.0207	500.0	487.6	ug/L	-2	15	
Benzo(g,h,i)perylene	1	0.0351	0.0337	500.0	486.1	ug/L	-3	15	
Indeno(1,2,3-cd)pyrene	1	0.0976	0.0891	250.0	226.3	ug/L	-9	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0084	50000	49620	ug/L	-1	15	
Acenaphthylene	2	0.0279	0.0273	5000	4829	ug/L	-3	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	49580	ug/L	-1	15	
Naphthalene	3	0.0110	0.0111	2500	2489	ug/L	0	15	
Acenaphthene	3	0.0233	0.0235	2500	2420	ug/L	-3	15	
Fluorene	3	0.1263	0.1249	500.0	477.8	ug/L	-4	15	
Phenanthrene	3	0.1362	0.1356	250.0	247.1	ug/L	-1	15	
Anthracene	3	0.4263	0.4168	250.0	242.5	ug/L	-3	15	
Fluoranthene	3	0.0387	0.0384	500.0	493.8	ug/L	-1	15	
Pyrene	3	0.1332	0.1325	250.0	248.6	ug/L	-1	15	
Benzo(a)anthracene	3	0.1515	0.1481	250.0	241.6	ug/L	-3	15	
Chrysene	3	0.1803	0.1787	250.0	243.2	ug/L	-3	15	
Benzo(b)fluoranthene	3	0.0643	0.0634	500.0	485.8	ug/L	-3	15	
Benzo(k)fluoranthene	3	0.3904	0.3861	250.0	238.9	ug/L	-4	15	
Benzo(a)pyrene	3	0.2132	0.2116	250.0	245.6	ug/L	-2	15	
Dibenz(a,h)anthracene	3	0.0311	0.0326	500.0	522.5	ug/L	4	15	
Benzo(g,h,i)perylene	3	0.0613	0.0612	500.0	508.6	ug/L	2	15	
Indeno(1,2,3-cd)pyrene	3	0.0971	0.0941	250.0	240.1	ug/L	-4	15	
1-Methylnaphthalene (F)	3	0.0122	0.0124	50000	51660	ug/L	3	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187020 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: M IDF : 1.0
Seqnum : 296210939011 File : 14600011 Time : 26-MAY-2006 19:04
Cal : 296199754001 Caldate : 18-MAY-2006
Standards: S3192

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0132	5000	5056	ug/L	1	15	
Acenaphthylene	1	0.0093	0.0093	10000	9980	ug/L	0	15	
Acenaphthene	1	0.0052	0.0053	5000	5011	ug/L	0	15	
Fluorene	1	0.0627	0.0635	1000	1010	ug/L	1	15	
Phenanthrene	1	0.1800	0.1817	500.0	503.5	ug/L	1	15	
Anthracene	1	0.4248	0.4312	500.0	504.9	ug/L	1	15	
Fluoranthene	1	0.0409	0.0412	1000	1011	ug/L	1	15	
Pyrene	1	0.0342	0.0346	500.0	512.4	ug/L	2	15	
Benzo(a)anthracene	1	0.0943	0.0957	500.0	505.5	ug/L	1	15	
Chrysene	1	0.1335	0.1362	500.0	507.1	ug/L	1	15	
Benzo(b)fluoranthene	1	0.1059	0.1074	1000	1008	ug/L	1	15	
Benzo(k)fluoranthene	1	0.0821	0.0844	500.0	506.7	ug/L	1	15	
Benzo(a)pyrene	1	0.0870	0.0880	500.0	502.9	ug/L	1	15	
Dibenz(a,h)anthracene	1	0.0212	0.0214	1000	980.5	ug/L	-2	15	
Benzo(g,h,i)perylene	1	0.0351	0.0355	1000	993.9	ug/L	-1	15	
Indeno(1,2,3-cd)pyrene	1	0.0976	0.1000	500.0	501.9	ug/L	0	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0084	50000	49900	ug/L	0	15	
Acenaphthylene	2	0.0279	0.0282	10000	10070	ug/L	1	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	49580	ug/L	-1	15	
Naphthalene	3	0.0110	0.0112	5000	5070	ug/L	1	15	
Acenaphthene	3	0.0233	0.0239	5000	5094	ug/L	2	15	
Fluorene	3	0.1263	0.1287	1000	1019	ug/L	2	15	
Phenanthrene	3	0.1362	0.1366	500.0	501.1	ug/L	0	15	
Anthracene	3	0.4263	0.4364	500.0	509.6	ug/L	2	15	
Fluoranthene	3	0.0387	0.0395	1000	1019	ug/L	2	15	
Pyrene	3	0.1332	0.1339	500.0	500.7	ug/L	0	15	
Benzo(a)anthracene	3	0.1515	0.1542	500.0	507.3	ug/L	1	15	
Chrysene	3	0.1803	0.1835	500.0	508.0	ug/L	2	15	
Benzo(b)fluoranthene	3	0.0643	0.0656	1000	1014	ug/L	1	15	
Benzo(k)fluoranthene	3	0.3904	0.4013	500.0	511.4	ug/L	2	15	
Benzo(a)pyrene	3	0.2132	0.2167	500.0	506.2	ug/L	1	15	
Dibenz(a,h)anthracene	3	0.0311	0.0317	1000	1008	ug/L	1	15	
Benzo(g,h,i)perylene	3	0.0613	0.0615	1000	998.3	ug/L	0	15	
Indeno(1,2,3-cd)pyrene	3	0.0971	0.0990	500.0	507.7	ug/L	2	15	
1-Methylnaphthalene (F)	3	0.0122	0.0121	50000	50780	ug/L	2	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187020 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: H IDF : 1.0
Seqnum : 296210939026 File : 14600026 Time : 27-MAY-2006 02:58
Cal : 296199754001 Caldate : 18-MAY-2006
Standards: S2954

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0129	10000	9911	ug/L	-1	15	
Acenaphthylene	1	0.0093	0.0091	20000	19720	ug/L	-1	15	
Acenaphthene	1	0.0052	0.0051	10000	9824	ug/L	-2	15	
Fluorene	1	0.0627	0.0616	2000	1968	ug/L	-2	15	
Phenanthrene	1	0.1800	0.1764	1000	980.1	ug/L	-2	15	
Anthracene	1	0.4248	0.4211	1000	990.6	ug/L	-1	15	
Fluoranthene	1	0.0409	0.0399	2000	1960	ug/L	-2	15	
Pyrene	1	0.0342	0.0331	1000	981.3	ug/L	-2	15	
Benzo(a)anthracene	1	0.0943	0.0935	1000	987.1	ug/L	-1	15	
Chrysene	1	0.1335	0.1324	1000	988.7	ug/L	-1	15	
Benzo(b)fluoranthene	1	0.1059	0.1048	2000	1969	ug/L	-2	15	
Benzo(k)fluoranthene	1	0.0821	0.0830	1000	995.1	ug/L	0	15	
Benzo(a)pyrene	1	0.0870	0.0864	1000	981.2	ug/L	-2	15	
Dibenz(a,h)anthracene	1	0.0212	0.0215	2000	1946	ug/L	-3	15	
Benzo(g,h,i)perylene	1	0.0351	0.0352	2000	1944	ug/L	-3	15	
Indeno(1,2,3-cd)pyrene	1	0.0976	0.0982	1000	981.8	ug/L	-2	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0083	50000	49170	ug/L	-2	15	
Acenaphthylene	2	0.0279	0.0275	20000	19750	ug/L	-1	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	49200	ug/L	-2	15	
Naphthalene	3	0.0110	0.0110	10000	9967	ug/L	0	15	
Acenaphthene	3	0.0233	0.0230	10000	10010	ug/L	0	15	
Fluorene	3	0.1263	0.1238	2000	1989	ug/L	-1	15	
Phenanthrene	3	0.1362	0.1342	1000	988.1	ug/L	-1	15	
Anthracene	3	0.4263	0.4245	1000	993.1	ug/L	-1	15	
Fluoranthene	3	0.0387	0.0381	2000	1968	ug/L	-2	15	
Pyrene	3	0.1332	0.1319	1000	984.2	ug/L	-2	15	
Benzo(a)anthracene	3	0.1515	0.1506	1000	994.9	ug/L	-1	15	
Chrysene	3	0.1803	0.1777	1000	991.0	ug/L	-1	15	
Benzo(b)fluoranthene	3	0.0643	0.0638	2000	1981	ug/L	-1	15	
Benzo(k)fluoranthene	3	0.3904	0.3882	1000	1002	ug/L	0	15	
Benzo(a)pyrene	3	0.2132	0.2117	1000	992.1	ug/L	-1	15	
Dibenz(a,h)anthracene	3	0.0311	0.0310	2000	1963	ug/L	-2	15	
Benzo(g,h,i)perylene	3	0.0613	0.0607	2000	1947	ug/L	-3	15	
Indeno(1,2,3-cd)pyrene	3	0.0971	0.0966	1000	992.4	ug/L	-1	15	
1-Methylnaphthalene (F)	3	0.0122	0.0120	50000	50190	ug/L	0	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187020 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: H IDF : 1.0
Seqnum : 296219641031 File : 15200031 Time : 02-JUN-2006 04:30
Cal : 296199754001 Caldate : 18-MAY-2006
Standards: S2954

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0128	10000	9837	ug/L	-2	15	
Acenaphthylene	1	0.0093	0.0091	20000	19650	ug/L	-2	15	
Acenaphthene	1	0.0052	0.0051	10000	9724	ug/L	-3	15	
Fluorene	1	0.0627	0.0616	2000	1966	ug/L	-2	15	
Phenanthrene	1	0.1800	0.1763	1000	979.8	ug/L	-2	15	
Anthracene	1	0.4248	0.3997	1000	939.9	ug/L	-6	15	
Fluoranthene	1	0.0409	0.0399	2000	1960	ug/L	-2	15	
Pyrene	1	0.0342	0.0320	1000	947.6	ug/L	-5	15	
Benzo(a)anthracene	1	0.0943	0.0909	1000	959.8	ug/L	-4	15	
Chrysene	1	0.1335	0.1319	1000	985.2	ug/L	-1	15	
Benzo(b)fluoranthene	1	0.1059	0.1047	2000	1967	ug/L	-2	15	
Benzo(k)fluoranthene	1	0.0821	0.0820	1000	983.4	ug/L	-2	15	
Benzo(a)pyrene	1	0.0870	0.0838	1000	951.7	ug/L	-5	15	
Dibenz(a,h)anthracene	1	0.0212	0.0215	2000	1946	ug/L	-3	15	
Benzo(g,h,i)perylene	1	0.0351	0.0341	2000	1881	ug/L	-6	15	
Indeno(1,2,3-cd)pyrene	1	0.0976	0.0942	1000	942.0	ug/L	-6	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0083	50000	48960	ug/L	-2	15	
Acenaphthylene	2	0.0279	0.0274	20000	19670	ug/L	-2	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	48880	ug/L	-2	15	
Naphthalene	3	0.0110	0.0109	10000	9913	ug/L	-1	15	
Acenaphthene	3	0.0233	0.0228	10000	9904	ug/L	-1	15	
Fluorene	3	0.1263	0.1236	2000	1987	ug/L	-1	15	
Phenanthrene	3	0.1362	0.1352	1000	995.6	ug/L	0	15	
Anthracene	3	0.4263	0.4056	1000	948.9	ug/L	-5	15	
Fluoranthene	3	0.0387	0.0387	2000	1996	ug/L	0	15	
Pyrene	3	0.1332	0.1307	1000	975.8	ug/L	-2	15	
Benzo(a)anthracene	3	0.1515	0.1473	1000	972.7	ug/L	-3	15	
Chrysene	3	0.1803	0.1783	1000	994.3	ug/L	-1	15	
Benzo(b)fluoranthene	3	0.0643	0.0638	2000	1984	ug/L	-1	15	
Benzo(k)fluoranthene	3	0.3904	0.3864	1000	997.6	ug/L	0	15	
Benzo(a)pyrene	3	0.2132	0.2060	1000	965.4	ug/L	-3	15	
Dibenz(a,h)anthracene	3	0.0311	0.0309	2000	1959	ug/L	-2	15	
Benzo(g,h,i)perylene	3	0.0613	0.0597	2000	1915	ug/L	-4	15	
Indeno(1,2,3-cd)pyrene	3	0.0971	0.0934	1000	959.0	ug/L	-4	15	
1-Methylnaphthalene (F)	3	0.0122	0.0120	50000	50030	ug/L	0	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187020 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: M IDF : 1.0
Seqnum : 296219641045 File : 15200045 Time : 02-JUN-2006 11:53
Cal : 296199754001 Caldate : 18-MAY-2006
Standards: S3192

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0133	5000	5079	ug/L	2	15	
Acenaphthylene	1	0.0093	0.0094	10000	10070	ug/L	1	15	
Acenaphthene	1	0.0052	0.0053	5000	4962	ug/L	-1	15	
Fluorene	1	0.0627	0.0635	1000	1011	ug/L	1	15	
Phenanthrene	1	0.1800	0.1833	500.0	508.0	ug/L	2	15	
Anthracene	1	0.4248	0.4149	500.0	485.6	ug/L	-3	15	
Fluoranthene	1	0.0409	0.0413	1000	1014	ug/L	1	15	
Pyrene	1	0.0342	0.0339	500.0	502.5	ug/L	1	15	
Benzo(a)anthracene	1	0.0943	0.0953	500.0	503.3	ug/L	1	15	
Chrysene	1	0.1335	0.1369	500.0	509.8	ug/L	2	15	
Benzo(b)fluoranthene	1	0.1059	0.1083	1000	1016	ug/L	2	15	
Benzo(k)fluoranthene	1	0.0821	0.0839	500.0	504.2	ug/L	1	15	
Benzo(a)pyrene	1	0.0870	0.0859	500.0	491.2	ug/L	-2	15	
Dibenz(a,h)anthracene	1	0.0212	0.0218	1000	1001	ug/L	0	15	
Benzo(g,h,i)perylene	1	0.0351	0.0350	1000	981.5	ug/L	-2	15	
Indeno(1,2,3-cd)pyrene	1	0.0976	0.0988	500.0	496.2	ug/L	-1	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0085	50000	50160	ug/L	0	15	
Acenaphthylene	2	0.0279	0.0284	10000	10160	ug/L	2	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	50060	ug/L	0	15	
Naphthalene	3	0.0110	0.0114	5000	5158	ug/L	3	15	
Acenaphthene	3	0.0233	0.0239	5000	5115	ug/L	2	15	
Fluorene	3	0.1263	0.1293	1000	1024	ug/L	2	15	
Phenanthrene	3	0.1362	0.1405	500.0	515.6	ug/L	3	15	
Anthracene	3	0.4263	0.4212	500.0	491.9	ug/L	-2	15	
Fluoranthene	3	0.0387	0.0399	1000	1029	ug/L	3	15	
Pyrene	3	0.1332	0.1365	500.0	510.4	ug/L	2	15	
Benzo(a)anthracene	3	0.1515	0.1542	500.0	507.5	ug/L	1	15	
Chrysene	3	0.1803	0.1873	500.0	518.5	ug/L	4	15	
Benzo(b)fluoranthene	3	0.0643	0.0666	1000	1031	ug/L	3	15	
Benzo(k)fluoranthene	3	0.3904	0.4052	500.0	516.5	ug/L	3	15	
Benzo(a)pyrene	3	0.2132	0.2157	500.0	503.9	ug/L	1	15	
Dibenz(a,h)anthracene	3	0.0311	0.0319	1000	1013	ug/L	1	15	
Benzo(g,h,i)perylene	3	0.0613	0.0611	1000	991.5	ug/L	-1	15	
Indeno(1,2,3-cd)pyrene	3	0.0971	0.0973	500.0	498.5	ug/L	0	15	
1-Methylnaphthalene (F)	3	0.0122	0.0124	50000	51670	ug/L	3	15	

SEQUENCE SUMMARY FOR 187020 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296199754 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 18-MAY-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	13800001	X	PRIMER - 138			18-MAY-2006 17:14	1.0						
002	13800002	X	PRIMER			18-MAY-2006 17:46	1.0						
003	13800003	X	IB - 138			18-MAY-2006 18:17	1.0						
004	13800004	X	IB			18-MAY-2006 18:49	1.0						
005	13800005	X	IB			18-MAY-2006 19:21	1.0						
006	13800006	ICAL				18-MAY-2006 19:52	1.0					1	
007	13800007	ICAL				18-MAY-2006 20:24	1.0					2	
008	13800008	ICAL				18-MAY-2006 20:56	1.0					3	
009	13800009	ICAL				18-MAY-2006 21:27	1.0					4	
010	13800010	ICAL				18-MAY-2006 21:59	1.0					5	
011	13800011	ICAL				18-MAY-2006 22:31	1.0					6	
012	13800012	ICAL				18-MAY-2006 23:02	1.0					7	
013	13800013	X	IB			18-MAY-2006 23:34	1.0						
014	13800014	X	IB			19-MAY-2006 00:05	1.0						
015	13800015	ICV	ICV			19-MAY-2006 00:37	1.0		10			8	223
016	13800016	X	ICV			19-MAY-2006 01:09	1.0					8	
017	13800017	X	IB			19-MAY-2006 01:40	1.0						

Stds used: 1=S3065 2=S3064 3=S3063 4=S3062 5=S3061 6=S3060 7=S3059 8=S3051

SEQUENCE SUMMARY FOR 187020 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296210939 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 26-MAY-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
001	14600001	X	IB - 146			26-MAY-2006 11:39	1.0				
002	14600002	CCV	L			26-MAY-2006 12:10	1.0	1.0	10	1	
003	14600003	X	CCV			26-MAY-2006 12:42	1.0			1	
004	14600004	X	IB			26-MAY-2006 13:14	1.0				
005	14600005	BLANK	QC341525	113811	Water	26-MAY-2006 15:54	1.0	0.002	10		
006	14600006	BS	QC341526	113811	Water	26-MAY-2006 16:26	1.0	0.002	10		
007	14600007	BSD	QC341527	113811	Water	26-MAY-2006 16:58	1.0	0.002	10		
008	14600008	X	IB			26-MAY-2006 17:29	1.0				
009	14600009	SAMPLE	187066-001	113811	Water	26-MAY-2006 18:01	1.0	0.001923	10		
010	14600010	X	IB			26-MAY-2006 18:33	1.0				
011	14600011	CCV	M			26-MAY-2006 19:04	1.0	1.0	10	2	
012	14600012	X	CCV			26-MAY-2006 19:36	1.0			2	
013	14600013	X	IB			26-MAY-2006 20:07	1.0				
014	14600014	SAMPLE	187020-017	113811	Water	26-MAY-2006 20:39	1.0	0.001887	10		
015	14600015	SAMPLE	187020-018	113811	Water	26-MAY-2006 21:11	1.0	0.001887	10		
016	14600016	SAMPLE	187020-020	113811	Water	26-MAY-2006 21:42	1.0	0.001887	10		
017	14600017	X	IB			26-MAY-2006 22:14	1.0				
018	14600018	SAMPLE	187024-001	113811	Water	26-MAY-2006 22:45	1.0	0.001961	10		
019	14600019	SAMPLE	187024-002	113811	Water	26-MAY-2006 23:17	1.0	0.00198	10		
020	14600020	SAMPLE	187024-003	113811	Water	26-MAY-2006 23:49	1.0	0.001887	10		
021	14600021	SAMPLE	187024-004	113811	Water	27-MAY-2006 00:20	1.0	0.002	10		
022	14600022	SAMPLE	187024-005	113811	Water	27-MAY-2006 00:52	1.0	0.00198	10		
023	14600023	SAMPLE	187024-006	113811	Water	27-MAY-2006 01:24	1.0	0.001942	10		
024	14600024	SAMPLE	187024-007	113811	Water	27-MAY-2006 01:55	1.0	0.001961	10		
025	14600025	X	IB			27-MAY-2006 02:27	1.0				
026	14600026	CCV	H			27-MAY-2006 02:58	1.0	1.0	10	3	
027	14600027	X	CCV			27-MAY-2006 03:30	1.0			3	
028	14600028	X	IB			27-MAY-2006 04:02	1.0				
029	14600029	SAMPLE	187024-008	113811	Water	27-MAY-2006 04:33	1.0	0.001961	10		
030	14600030	SAMPLE	187024-009	113811	Water	27-MAY-2006 05:05	1.0	0.001961	10		
031	14600031	SAMPLE	187024-010	113811	Water	27-MAY-2006 05:37	1.0	0.00198	10		

Stds used: 1=S3190 2=S3192 3=S2954

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SEQUENCE SUMMARY FOR 187020 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296210939 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 26-MAY-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	14600032	SAMPLE	187024-011	113811	Water	27-MAY-2006 06:08	1.0	0.002			10		
033	14600033	SAMPLE	187024-012	113811	Water	27-MAY-2006 06:40	1.0	0.00198			10		
034	14600034	SAMPLE	187024-013	113811	Water	27-MAY-2006 07:11	1.0	0.002105			10		
035	14600035	SAMPLE	187024-014	113811	Water	27-MAY-2006 07:43	1.0	0.00198			10		
036	14600036	SAMPLE	187024-015	113811	Water	27-MAY-2006 08:14	1.0	0.00198			10		
037	14600037	SAMPLE	187024-016	113811	Water	27-MAY-2006 08:46	1.0	0.001961			10		
038	14600038	X	IB			27-MAY-2006 09:18	1.0						
039	14600039	CCV	M			27-MAY-2006 09:49	1.0	1.0			10	2	
040	14600040	X	CCV			27-MAY-2006 10:21	1.0					2	
041	14600041	X	IB			27-MAY-2006 10:53	1.0						

225

Stds used: 1=S3190 2=S3192 3=S2954

SEQUENCE SUMMARY FOR 187020 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296219641 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 01-JUN-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	15200001	X	IB - 152			01-JUN-2006 12:41	1.0						
002	15200002	CCV	L			01-JUN-2006 13:13	1.0	1.0			10	1	
003	15200003	X	CCV			01-JUN-2006 13:45	1.0					1	
004	15200004	X	IB			01-JUN-2006 14:16	1.0						
005	15200005	LCS	QC341826	113889	Water	01-JUN-2006 14:48	1.0	0.002			10		
006	15200006	BLANK	QC341825	113889	Water	01-JUN-2006 15:19	1.0	0.002	2		10		
007	15200007	MSS	187061-013	113889	Water	01-JUN-2006 15:51	1.0	0.00198	2		10		
008	15200008	MS	QC341827	113889	Water	01-JUN-2006 16:23	1.0	0.00198		4	10		
009	15200009	MSD	QC341828	113889	Water	01-JUN-2006 16:54	1.0	0.00198		2	10		
010	15200010	X	IB			01-JUN-2006 17:26	1.0						
011	15200011	SAMPLE	187061-001	113889	Water	01-JUN-2006 17:57	1.0	0.001961			10		
012	15200012	SAMPLE	187061-002	113889	Water	01-JUN-2006 18:29	1.0	0.002			10		
013	15200013	SAMPLE	187061-003	113889	Water	01-JUN-2006 19:01	1.0	0.001942			10		
014	15200014	SAMPLE	187061-004	113889	Water	01-JUN-2006 19:32	1.0	0.001942			10		
015	15200015	SAMPLE	187061-005	113889	Water	01-JUN-2006 20:04	1.0	0.001923			10		226
016	15200016	X	IB			01-JUN-2006 20:36	1.0						
017	15200017	CCV	M			01-JUN-2006 21:07	1.0	1.0			10	2	
018	15200018	X	CCV			01-JUN-2006 21:39	1.0					2	
019	15200019	X	IB			01-JUN-2006 22:10	1.0						
020	15200020	SAMPLE	187061-006	113889	Water	01-JUN-2006 22:42	1.0	0.001942			10		
021	15200021	SAMPLE	187061-007	113889	Water	01-JUN-2006 23:14	1.0	0.001923			10		
022	15200022	SAMPLE	187061-008	113889	Water	01-JUN-2006 23:45	1.0	0.001887			10		
023	15200023	SAMPLE	187061-009	113889	Water	02-JUN-2006 00:17	1.0	0.001923			10		
024	15200024	SAMPLE	187061-011	113889	Water	02-JUN-2006 00:48	1.0	0.001942			10		
025	15200025	SAMPLE	187061-012	113889	Water	02-JUN-2006 01:20	1.0	0.001905			10		
026	15200026	SAMPLE	187061-014	113889	Water	02-JUN-2006 01:52	1.0	0.001942			10		
027	15200027	SAMPLE	187061-015	113889	Water	02-JUN-2006 02:23	1.0	0.00198		3	10		
028	15200028	SAMPLE	187061-016	113889	Water	02-JUN-2006 02:55	1.0	0.00198			10		
029	15200029	SAMPLE	187109-001	113889	Water	02-JUN-2006 03:27	1.0	0.00198			10		
030	15200030	X	IB			02-JUN-2006 03:58	1.0						
031	15200031	CCV	H			02-JUN-2006 04:30	1.0	1.0			10	3	

Stds used: 1=S3190 2=S3192 3=S2954

SEQUENCE SUMMARY FOR 187020 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296219641 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 01-JUN-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	15200032	X	CCV			02-JUN-2006 05:01	1.0				3	
033	15200033	X	IB			02-JUN-2006 05:33	1.0					
034	15200034	SAMPLE	187109-002	113889	Water	02-JUN-2006 06:05	1.0	0.00198		10		
035	15200035	SAMPLE	187109-003	113889	Water	02-JUN-2006 06:36	1.0	0.001961		10		
036	15200036	SAMPLE	187109-004	113889	Water	02-JUN-2006 07:08	1.0	0.001961		10		
037	15200037	BS	QC341989	113927	Water	02-JUN-2006 07:40	1.0	0.002		10		
038	15200038	BSD	QC341990	113927	Water	02-JUN-2006 08:11	1.0	0.002		10		
039	15200039	BLANK	QC341988	113927	Water	02-JUN-2006 08:43	1.0	0.002		10		
040	15200040	SAMPLE	187061-010	113927	Water	02-JUN-2006 09:14	1.0	0.001961		10		
041	15200041	SAMPLE	187020-015	113927	Water	02-JUN-2006 09:46	1.0	0.001961		10		
042	15200042	SAMPLE	187020-014	113927	Water	02-JUN-2006 10:18	1.0	0.00198		10		
043	15200043	X	IB			02-JUN-2006 10:49	1.0					
044	15200044	X	IB			02-JUN-2006 11:21	1.0					
045	15200045	CCV	M			02-JUN-2006 11:53	1.0	1.0		10	2	
046	15200046	X	CCV			02-JUN-2006 12:24	1.0				2	
047	15200047	X	IB			02-JUN-2006 12:56	1.0					

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Stds used: 1=S3190 2=S3192 3=S2954

REPORTING SUMMARY FOR 187020 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
187020-014	Naphthalene	HPLC04	1	06/02/06 10:18
187020-014	Acenaphthylene	HPLC04	1	06/02/06 10:18
187020-014	Acenaphthene	HPLC04	1	06/02/06 10:18
187020-014	Fluorene	HPLC04	1	06/02/06 10:18
187020-014	Phenanthrene	HPLC04	3	06/02/06 10:18
187020-014	Anthracene	HPLC04	3	06/02/06 10:18
187020-014	Fluoranthene	HPLC04	3	06/02/06 10:18
187020-014	Pyrene	HPLC04	3	06/02/06 10:18
187020-014	Benzo(a)anthracene	HPLC04	3	06/02/06 10:18
187020-014	Chrysene	HPLC04	3	06/02/06 10:18
187020-014	Benzo(b)fluoranthene	HPLC04	3	06/02/06 10:18
187020-014	Benzo(k)fluoranthene	HPLC04	3	06/02/06 10:18
187020-014	Benzo(a)pyrene	HPLC04	3	06/02/06 10:18
187020-014	Dibenz(a,h)anthracene	HPLC04	3	06/02/06 10:18
187020-014	Benzo(g,h,i)perylene	HPLC04	3	06/02/06 10:18
187020-014	Indeno(1,2,3-cd)pyrene	HPLC04	3	06/02/06 10:18
187020-014	1-Methylnaphthalene (UV)	HPLC04	1	06/02/06 10:18
187020-014	1-Methylnaphthalene (F)	HPLC04	3	06/02/06 10:18
187020-015	Naphthalene	HPLC04	1	06/02/06 09:46
187020-015	Acenaphthylene	HPLC04	1	06/02/06 09:46
187020-015	Acenaphthene	HPLC04	1	06/02/06 09:46
187020-015	Fluorene	HPLC04	1	06/02/06 09:46
187020-015	Phenanthrene	HPLC04	3	06/02/06 09:46
187020-015	Anthracene	HPLC04	3	06/02/06 09:46
187020-015	Fluoranthene	HPLC04	3	06/02/06 09:46
187020-015	Pyrene	HPLC04	3	06/02/06 09:46
187020-015	Benzo(a)anthracene	HPLC04	3	06/02/06 09:46
187020-015	Chrysene	HPLC04	3	06/02/06 09:46
187020-015	Benzo(b)fluoranthene	HPLC04	3	06/02/06 09:46
187020-015	Benzo(k)fluoranthene	HPLC04	3	06/02/06 09:46
187020-015	Benzo(a)pyrene	HPLC04	3	06/02/06 09:46
187020-015	Dibenz(a,h)anthracene	HPLC04	3	06/02/06 09:46
187020-015	Benzo(g,h,i)perylene	HPLC04	3	06/02/06 09:46
187020-015	Indeno(1,2,3-cd)pyrene	HPLC04	3	06/02/06 09:46
187020-015	1-Methylnaphthalene (UV)	HPLC04	1	06/02/06 09:46
187020-015	1-Methylnaphthalene (F)	HPLC04	3	06/02/06 09:46
187020-017	Naphthalene	HPLC04	1	05/26/06 20:39
187020-017	Acenaphthylene	HPLC04	1	05/26/06 20:39
187020-017	Acenaphthene	HPLC04	1	05/26/06 20:39
187020-017	Fluorene	HPLC04	1	05/26/06 20:39
187020-017	Phenanthrene	HPLC04	3	05/26/06 20:39
187020-017	Anthracene	HPLC04	3	05/26/06 20:39
187020-017	Fluoranthene	HPLC04	3	05/26/06 20:39
187020-017	Pyrene	HPLC04	3	05/26/06 20:39
187020-017	Benzo(a)anthracene	HPLC04	3	05/26/06 20:39
187020-017	Chrysene	HPLC04	3	05/26/06 20:39
187020-017	Benzo(b)fluoranthene	HPLC04	3	05/26/06 20:39
187020-017	Benzo(k)fluoranthene	HPLC04	3	05/26/06 20:39
187020-017	Benzo(a)pyrene	HPLC04	3	05/26/06 20:39
187020-017	Dibenz(a,h)anthracene	HPLC04	3	05/26/06 20:39
187020-017	Benzo(g,h,i)perylene	HPLC04	3	05/26/06 20:39
187020-017	Indeno(1,2,3-cd)pyrene	HPLC04	3	05/26/06 20:39

REPORTING SUMMARY FOR 187020 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
187020-017	1-Methylnaphthalene (UV)	HPLC04	1	05/26/06 20:39
187020-017	1-Methylnaphthalene (F)	HPLC04	3	05/26/06 20:39
187020-018	Naphthalene	HPLC04	1	05/26/06 21:11
187020-018	Acenaphthylene	HPLC04	1	05/26/06 21:11
187020-018	Acenaphthene	HPLC04	1	05/26/06 21:11
187020-018	Fluorene	HPLC04	1	05/26/06 21:11
187020-018	Phenanthrene	HPLC04	3	05/26/06 21:11
187020-018	Anthracene	HPLC04	3	05/26/06 21:11
187020-018	Fluoranthene	HPLC04	3	05/26/06 21:11
187020-018	Pyrene	HPLC04	3	05/26/06 21:11
187020-018	Benzo(a)anthracene	HPLC04	3	05/26/06 21:11
187020-018	Chrysene	HPLC04	3	05/26/06 21:11
187020-018	Benzo(b)fluoranthene	HPLC04	3	05/26/06 21:11
187020-018	Benzo(k)fluoranthene	HPLC04	3	05/26/06 21:11
187020-018	Benzo(a)pyrene	HPLC04	3	05/26/06 21:11
187020-018	Dibenz(a,h)anthracene	HPLC04	3	05/26/06 21:11
187020-018	Benzo(g,h,i)perylene	HPLC04	3	05/26/06 21:11
187020-018	Indeno(1,2,3-cd)pyrene	HPLC04	3	05/26/06 21:11
187020-018	1-Methylnaphthalene (UV)	HPLC04	1	05/26/06 21:11
187020-018	1-Methylnaphthalene (F)	HPLC04	3	05/26/06 21:11
187020-020	Naphthalene	HPLC04	1	05/26/06 21:42
187020-020	Acenaphthylene	HPLC04	1	05/26/06 21:42
187020-020	Acenaphthene	HPLC04	1	05/26/06 21:42
187020-020	Fluorene	HPLC04	1	05/26/06 21:42
187020-020	Phenanthrene	HPLC04	3	05/26/06 21:42
187020-020	Anthracene	HPLC04	3	05/26/06 21:42
187020-020	Fluoranthene	HPLC04	3	05/26/06 21:42
187020-020	Pyrene	HPLC04	3	05/26/06 21:42
187020-020	Benzo(a)anthracene	HPLC04	3	05/26/06 21:42
187020-020	Chrysene	HPLC04	3	05/26/06 21:42
187020-020	Benzo(b)fluoranthene	HPLC04	3	05/26/06 21:42
187020-020	Benzo(k)fluoranthene	HPLC04	3	05/26/06 21:42
187020-020	Benzo(a)pyrene	HPLC04	3	05/26/06 21:42
187020-020	Dibenz(a,h)anthracene	HPLC04	3	05/26/06 21:42
187020-020	Benzo(g,h,i)perylene	HPLC04	3	05/26/06 21:42
187020-020	Indeno(1,2,3-cd)pyrene	HPLC04	3	05/26/06 21:42
187020-020	1-Methylnaphthalene (UV)	HPLC04	1	05/26/06 21:42
187020-020	1-Methylnaphthalene (F)	HPLC04	3	05/26/06 21:42
QC341525	Naphthalene	HPLC04	1	05/26/06 15:54
QC341525	Acenaphthylene	HPLC04	1	05/26/06 15:54
QC341525	Acenaphthene	HPLC04	1	05/26/06 15:54
QC341525	Fluorene	HPLC04	1	05/26/06 15:54
QC341525	Phenanthrene	HPLC04	3	05/26/06 15:54
QC341525	Anthracene	HPLC04	3	05/26/06 15:54
QC341525	Fluoranthene	HPLC04	3	05/26/06 15:54
QC341525	Pyrene	HPLC04	3	05/26/06 15:54
QC341525	Benzo(a)anthracene	HPLC04	3	05/26/06 15:54
QC341525	Chrysene	HPLC04	3	05/26/06 15:54
QC341525	Benzo(b)fluoranthene	HPLC04	3	05/26/06 15:54
QC341525	Benzo(k)fluoranthene	HPLC04	3	05/26/06 15:54
QC341525	Benzo(a)pyrene	HPLC04	3	05/26/06 15:54

REPORTING SUMMARY FOR 187020 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC341525	Dibenz(a,h)anthracene	HPLC04	3	05/26/06 15:54
QC341525	Benzo(g,h,i)perylene	HPLC04	3	05/26/06 15:54
QC341525	Indeno(1,2,3-cd)pyrene	HPLC04	3	05/26/06 15:54
QC341525	1-Methylnaphthalene (UV)	HPLC04	1	05/26/06 15:54
QC341525	1-Methylnaphthalene (F)	HPLC04	3	05/26/06 15:54
QC341526	Naphthalene	HPLC04	1	05/26/06 16:26
QC341526	Fluorene	HPLC04	1	05/26/06 16:26
QC341526	Pyrene	HPLC04	3	05/26/06 16:26
QC341526	Benzo(a)pyrene	HPLC04	3	05/26/06 16:26
QC341526	1-Methylnaphthalene (UV)	HPLC04	1	05/26/06 16:26
QC341526	1-Methylnaphthalene (F)	HPLC04	3	05/26/06 16:26
QC341527	Naphthalene	HPLC04	1	05/26/06 16:58
QC341527	Fluorene	HPLC04	1	05/26/06 16:58
QC341527	Pyrene	HPLC04	3	05/26/06 16:58
QC341527	Benzo(a)pyrene	HPLC04	3	05/26/06 16:58
QC341527	1-Methylnaphthalene (UV)	HPLC04	1	05/26/06 16:58
QC341527	1-Methylnaphthalene (F)	HPLC04	3	05/26/06 16:58
QC341988	Naphthalene	HPLC04	1	06/02/06 08:43
QC341988	Acenaphthylene	HPLC04	1	06/02/06 08:43
QC341988	Acenaphthene	HPLC04	1	06/02/06 08:43
QC341988	Fluorene	HPLC04	1	06/02/06 08:43
QC341988	Phenanthrene	HPLC04	3	06/02/06 08:43
QC341988	Anthracene	HPLC04	3	06/02/06 08:43
QC341988	Fluoranthene	HPLC04	3	06/02/06 08:43
QC341988	Pyrene	HPLC04	3	06/02/06 08:43
QC341988	Benzo(a)anthracene	HPLC04	3	06/02/06 08:43
QC341988	Chrysene	HPLC04	3	06/02/06 08:43
QC341988	Benzo(b)fluoranthene	HPLC04	3	06/02/06 08:43
QC341988	Benzo(k)fluoranthene	HPLC04	3	06/02/06 08:43
QC341988	Benzo(a)pyrene	HPLC04	3	06/02/06 08:43
QC341988	Dibenz(a,h)anthracene	HPLC04	3	06/02/06 08:43
QC341988	Benzo(g,h,i)perylene	HPLC04	3	06/02/06 08:43
QC341988	Indeno(1,2,3-cd)pyrene	HPLC04	3	06/02/06 08:43
QC341988	1-Methylnaphthalene (UV)	HPLC04	1	06/02/06 08:43
QC341988	1-Methylnaphthalene (F)	HPLC04	3	06/02/06 08:43
QC341989	Naphthalene	HPLC04	1	06/02/06 07:40
QC341989	Fluorene	HPLC04	1	06/02/06 07:40
QC341989	Pyrene	HPLC04	3	06/02/06 07:40
QC341989	Benzo(a)pyrene	HPLC04	3	06/02/06 07:40
QC341989	1-Methylnaphthalene (UV)	HPLC04	1	06/02/06 07:40
QC341989	1-Methylnaphthalene (F)	HPLC04	3	06/02/06 07:40
QC341990	Naphthalene	HPLC04	1	06/02/06 08:11
QC341990	Fluorene	HPLC04	1	06/02/06 08:11
QC341990	Pyrene	HPLC04	3	06/02/06 08:11
QC341990	Benzo(a)pyrene	HPLC04	3	06/02/06 08:11
QC341990	1-Methylnaphthalene (UV)	HPLC04	1	06/02/06 08:11
QC341990	1-Methylnaphthalene (F)	HPLC04	3	06/02/06 08:11

Curtis & Tompkins Laboratories Sample Preparation Summary 26-MAY-2006 14:54

Batch Number : 113811
Date Extracted: 25-MAY-2006
Extracted by : Daniel L. McGee
Prep Method : 3520C

Analysis : 8310
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S3376R
Spike #2 ID : S3553C
Spike #3 ID :
SOP Version : 8310w_rv6

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
187020-017		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
187020-018		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
187020-020		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
187024-001		Acton Mickelson Environmental	Water	1020	mL	2	0.001961	1	5	.1	0		8310		
187024-002		Acton Mickelson Environmental	Water	1010	mL	2	0.001980	1	5	.1	0		8310		
187024-003		Acton Mickelson Environmental	Water	1060	mL	2	0.001887	1	5	.1	0		8310		
187024-004		Acton Mickelson Environmental	Water	1000	mL	2	0.002000	1	5	.1	0		8310		
187024-005		Acton Mickelson Environmental	Water	1010	mL	2	0.001980	1	5	.1	0		8310		
187024-006		Acton Mickelson Environmental	Water	1030	mL	2	0.001942	1	5	.1	0		8310		
187024-007		Acton Mickelson Environmental	Water	1020	mL	2	0.001961	1	5	.1	0		8310		
187024-008		Acton Mickelson Environmental	Water	1020	mL	2	0.001961	1	5	.1	0		8310		
187024-009		Acton Mickelson Environmental	Water	1020	mL	2	0.001961	1	5	.1	0		8310		
187024-010		Acton Mickelson Environmental	Water	1010	mL	2	0.001980	1	5	.1	0		8310		
187024-011		Acton Mickelson Environmental	Water	1000	mL	2	0.002000	1	6	.1	0		8310		
187024-012		Acton Mickelson Environmental	Water	1010	mL	2	0.001980	1	6	.1	0		8310		
187024-013		Acton Mickelson Environmental	Water	950	mL	2	0.002105	1	6	.1	0		8310		
187024-014		Acton Mickelson Environmental	Water	1010	mL	2	0.001980	1	6	.1	0		8310		
187024-015		Acton Mickelson Environmental	Water	1010	mL	2	0.001980	1	6	.1	0		8310		
187024-016		Acton Mickelson Environmental	Water	1020	mL	2	0.001961	1	6	.1	0		8310		
187066-001		Acton Mickelson Environmental	Water	1040	mL	2	0.001923	1	6	.1	0		8310		
QC341525	BLANK		Water	1000	mL	2	0.002000	1		.1	0		8310		
QC341526	BS		Water	1000	mL	2	0.002000	1		.1	1		8310		
QC341527	BSD		Water	1000	mL	2	0.002000	1		.1	1		8310		

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Prep Chemist: Dan McG Reviewed By: [illegible] Date: 27 MAY 06

Relinquished By: Dan McG Received By: CP Date: 5/26/06

Curtis & Tompkins, Ltd

8310 WATER PREP LOG

BK2190

LIMS Batch No: 113811
LIMS Analysis: 8310
Extracted by: DLM
Date Extracted: 5/25/06

Extraction Method:
☐ EPA 3510c sep. funnel
☑ EPA 3520c cont. L/L
☐ _____

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Cleanup Method (if needed):
☐ EPA 3640a GPC
☐ EPA 3630c Silica Gel

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
187020 -017 F	1060	6	2.0		*
-018 C	↓	↓	↓		↓
-020	↓	↓	↓		↓
187024 -001 H	1020	5	↓		↓
-002	1010	↓	↓		↓
-003	1060	↓	↓		↓
-004	1000	↓	↓		↓
-005	1010	↓	↓		↓
-006	1030	↓	↓		↓
-007	1020	↓	↓		↓
-008	↓	↓	↓		↓
-009	↓	↓	↓		↓
-010	1010	↓	↓		**
-011	1000	6	↓		↓
-012	1010	↓	↓		↓
-013	950	↓	↓		↓
-014	1010	↓	↓		↓
-015	↓	↓	↓		↓
-016	1020	↓	↓		↓
MB QC341525	1000	NA			
BS 6	↓	↓			
BSD 7	↓	↓			
DLM 5/25/06 ~~186~~ 187066-001E	1040	6	↓		** , ***
			KR 27 MAY 06		

0.1 mL of surrogate solution was added to all samples
1.0 mL of matrix spiking solution was added to all spikes
☑ Samples continuously extracted with about 450 mL of CH_2Cl_2
Extraction Start Time: 1335 / ~~1030~~ *** 1630 DLM 5/26/06
Extraction End Time: 0735 / 1030
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2
Extracts filtered through baked, CH2Cl2-rinsed ~~powdered~~ granular Na2SO4
Exchanged 2x with Acetonitrile
Concentrated: ☑ to volumes as noted above ☐ to clean-up volume
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Silica Gel
Extracts filtered with 0.45 um PTFE syringe filter

Mfg & Lot# / LIMS # / Time	Date/ Initials
DLM 5/25/06 ~~S3~~ S3376 R / S* / P**	DLM 5/25/06
S3553C	↓
EM46110	↓
1335 / ~~1030~~ *** 1630 DLM 5/26/06	↓
0735 / 1030	DLM 5/26/06
NA	↓
EM45091549	↓
EM45236	↓
✓	↓
NA	↓
Whatman K774	↓

Dan McG 5/25/06
Extraction Chemist Date

Contined from Page ___/___
Continued on Page ___/___

KR 27 MAY 06
Reviewed by Date

Curtis & Tompkins Laboratories **Sample Preparation Summary** **01-JUN-2006 16:09**

Batch Number : 113927
Date Extracted: 30-MAY-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : 8310
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S3376M
Spike #2 ID : S3553C
Spike #3 ID :
SOP Version : 8310w_rv6

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
187020-014		Treadwell & Rollo	Water	1010	mL	2	0.001980	1	7	.1	0		8310		
187020-015		Treadwell & Rollo	Water	1020	mL	2	0.001961	1	7	.1	0		8310		
187061-010		Acton Mickelson Environmental	Water	1020	mL	2	0.001961	1	7	.1	0		8310		
QC341988	BLANK		Water	1000	mL	2	0.002000	1		.1	0		8310		
QC341989	BS		Water	1000	mL	2	0.002000	1		.1	1		8310		
QC341990	BSD		Water	1000	mL	2	0.002000	1		.1	1		8310		

Prep Chemist: Jessie Mee Reviewed By: [illegible] Date: 1 JUN 06

Relinquished By: [illegible] Received By: [illegible] Date: 01JUN2006

Curtis & Tompkins, Ltd

8310 WATER PREP LOG

BK2190

LIMS Batch No: 113927
LIMS Analysis: 8310
Extracted by: JDM
Date Extracted: 30 May-06

Extraction Method:
☐ EPA 3510c sep. funnel
☒ EPA 3520c cont. L/L
☐ _____

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Cleanup Method (if needed):
☐ EPA 3640a GPC
☐ EPA 3630c Silica Gel

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
187061-010 I	1020	7	2.0		
187020-014 F	1010	↓	↓		
↓ 15 F	1020	↓	↓		
MB QC341988	1000	NA	↓		
LCS ↓ 89	↓	↓	↓		
LCSD ↓ 90	↓	↓	↓		

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.1 mL of surrogate solution was added to all samples	S3553C	JDM 5/30/06
1.0 mL of matrix spiking solution was added to all spikes	S3376M	JDM 5/30/06
☒ Samples continuously extracted with about 450 mL of CH_2Cl_2	EM46069	↓
Extraction Start Time:	1445	↓
Extraction End Time:	0920	JDM 5/31/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	6/1/06 KR
Extracts filtered through baked, CH2Cl2-rinsed ~~powdered~~ GRAN Na2SO4	EM45091549	↓
Exchanged 2x with Acetonitrile	EM46236	↓
Concentrated: ☒ to volumes as noted above ☐ to clean-up volume	✓	↓
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Silica Gel	NA	↓
Extracts filtered with 0.45 um PTFE syringe filter	Whatman K774	↓

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Continued on Page ___

5/30/06
Extraction Chemist / Date

1 JUN 06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8310 Water 3520C
As of 06/19/06

Analyte	Units	HPLC02 1	HPLC02 2	HPLC02 3	HPLC04 1	HPLC04 2	HPLC04 3
Naphthalene	ug/L	0.16		0.069	0.097		0.10
Acenaphthylene	ug/L	0.37	0.29		0.24	0.16	
2-Methylnaphthalene	ug/L				0.072		0.10
Acenaphthene	ug/L	0.36		0.098	0.33		0.085
Fluorene	ug/L	0.051		0.054	0.028		0.017
Phenanthrene	ug/L	0.030		0.0086	0.0082		0.0078
Anthracene	ug/L	0.021		0.0077	0.024		0.023
Fluoranthene	ug/L	0.13		0.011	0.042		0.013
Pyrene	ug/L	0.066		0.0048	0.036		0.010
Benzo(a)anthracene	ug/L	0.044		0.0046	0.022		0.013
Chrysene	ug/L	0.036		0.0059	0.021		0.0096
Benzo(b)fluoranthene	ug/L	0.032		0.0081	0.015		0.013
Benzo(k)fluoranthene	ug/L	0.037		0.0044	0.013		0.0080
Benzo(a)pyrene	ug/L	0.055		0.0045	0.017		0.025
Dibenz(a,h)anthracene	ug/L	0.12		0.026	0.037		0.025
Benzo(g,h,i)perylene	ug/L	0.066		0.014	0.047		0.017
Indeno(1,2,3-cd)pyrene	ug/L	0.065		0.011	0.013		0.0096
1-Methylnaphthalene (UV)	ug/L	1.2	1.9		9.0	9.1	
1-Methylnaphthalene (F)	ug/L			0.72			9.8

METALS

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	600GW101	Batch#:	113955
Lab ID:	187020-001	Sampled:	05/23/06
Matrix:	Filtrate	Received:	05/24/06
Units:	ug/L	Prepared:	05/31/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	ND	100	1.000	06/02/06	EPA 6010B
Arsenic	ND	5.0	1.000	06/02/06	EPA 6010B
Cadmium	ND	1.0	1.000	06/06/06	EPA 6020
Calcium	99,000	500	1.000	06/02/06	EPA 6010B
Chromium	ND	10	1.000	06/02/06	EPA 6010B
Copper	2.1	1.0	1.000	06/06/06	EPA 6020
Iron	9,600	100	1.000	06/02/06	EPA 6010B
Lead	ND	3.0	1.000	06/02/06	EPA 6010B
Magnesium	56,000	500	1.000	06/02/06	EPA 6010B
Manganese	1,400	10	1.000	06/02/06	EPA 6010B
Nickel	ND	20	1.000	06/02/06	EPA 6010B
Potassium	15,000	500	1.000	06/02/06	EPA 6010B
Sodium	150,000	5,000	10.00	06/02/06	EPA 6010B
Zinc	ND	20	1.000	06/02/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	600GW105	Batch#:	113955
Lab ID:	187020-002	Sampled:	05/23/06
Matrix:	Filtrate	Received:	05/24/06
Units:	ug/L	Prepared:	05/31/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	ND	100	1.000	06/02/06	EPA 6010B
Arsenic	ND	5.0	1.000	06/02/06	EPA 6010B
Cadmium	ND	1.0	1.000	06/06/06	EPA 6020
Calcium	37,000	500	1.000	06/02/06	EPA 6010B
Chromium	ND	10	1.000	06/02/06	EPA 6010B
Copper	ND	1.0	1.000	06/06/06	EPA 6020
Iron	3,500	100	1.000	06/02/06	EPA 6010B
Lead	ND	3.0	1.000	06/02/06	EPA 6010B
Magnesium	49,000	500	1.000	06/02/06	EPA 6010B
Manganese	3,800	10	1.000	06/02/06	EPA 6010B
Nickel	ND	20	1.000	06/02/06	EPA 6010B
Potassium	910	500	1.000	06/02/06	EPA 6010B
Sodium	120,000	5,000	10.00	06/02/06	EPA 6010B
Zinc	ND	20	1.000	06/02/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	600GW106	Batch#:	113955
Lab ID:	187020-003	Sampled:	05/23/06
Matrix:	Filtrate	Received:	05/24/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	06/02/06	EPA 6010B
Arsenic	ND	5.0	06/02/06	EPA 6010B
Cadmium	ND	1.0	06/06/06	EPA 6020
Calcium	22,000	500	06/02/06	EPA 6010B
Chromium	ND	10	06/02/06	EPA 6010B
Copper	ND	1.0	06/06/06	EPA 6020
Iron	ND	100	06/02/06	EPA 6010B
Lead	ND	3.0	06/02/06	EPA 6010B
Magnesium	32,000	500	06/02/06	EPA 6010B
Manganese	1,300	10	06/02/06	EPA 6010B
Nickel	ND	20	06/02/06	EPA 6010B
Potassium	ND	500	06/02/06	EPA 6010B
Sodium	88,000	500	06/02/06	EPA 6010B
Zinc	ND	20	06/02/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	600GW108	Batch#:	113955
Lab ID:	187020-004	Sampled:	05/23/06
Matrix:	Filtrate	Received:	05/24/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	06/02/06	EPA 6010B
Arsenic	ND	5.0	06/02/06	EPA 6010B
Cadmium	ND	1.0	06/06/06	EPA 6020
Calcium	23,000	500	06/02/06	EPA 6010B
Chromium	ND	10	06/02/06	EPA 6010B
Copper	ND	1.0	06/06/06	EPA 6020
Iron	ND	100	06/02/06	EPA 6010B
Lead	ND	3.0	06/02/06	EPA 6010B
Magnesium	25,000	500	06/02/06	EPA 6010B
Manganese	45	10	06/02/06	EPA 6010B
Nickel	ND	20	06/02/06	EPA 6010B
Potassium	2,200	500	06/02/06	EPA 6010B
Sodium	33,000	500	06/02/06	EPA 6010B
Zinc	ND	20	06/02/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	610GW101	Batch#:	113955
Lab ID:	187020-005	Sampled:	05/23/06
Matrix:	Filtrate	Received:	05/24/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	06/02/06	EPA 6010B
Arsenic	ND	5.0	06/02/06	EPA 6010B
Cadmium	ND	1.0	06/06/06	EPA 6020
Calcium	59,000	500	06/02/06	EPA 6010B
Chromium	ND	10	06/02/06	EPA 6010B
Copper	ND	1.0	06/06/06	EPA 6020
Iron	4,500	100	06/02/06	EPA 6010B
Lead	ND	3.0	06/02/06	EPA 6010B
Magnesium	43,000	500	06/02/06	EPA 6010B
Manganese	390	10	06/02/06	EPA 6010B
Nickel	ND	20	06/02/06	EPA 6010B
Potassium	6,500	500	06/02/06	EPA 6010B
Sodium	79,000	500	06/02/06	EPA 6010B
Zinc	ND	20	06/02/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	610GW102	Batch#:	113955
Lab ID:	187020-006	Sampled:	05/23/06
Matrix:	Filtrate	Received:	05/24/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	06/02/06	EPA 6010B
Arsenic	ND	5.0	06/02/06	EPA 6010B
Cadmium	ND	1.0	06/06/06	EPA 6020
Calcium	57,000	500	06/02/06	EPA 6010B
Chromium	ND	10	06/02/06	EPA 6010B
Copper	ND	1.0	06/06/06	EPA 6020
Iron	1,400	100	06/02/06	EPA 6010B
Lead	ND	3.0	06/02/06	EPA 6010B
Magnesium	30,000	500	06/02/06	EPA 6010B
Manganese	2,300	10	06/02/06	EPA 6010B
Nickel	ND	20	06/02/06	EPA 6010B
Potassium	4,300	500	06/02/06	EPA 6010B
Sodium	80,000	500	06/02/06	EPA 6010B
Zinc	ND	20	06/02/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	610GW103	Batch#:	113955
Lab ID:	187020-007	Sampled:	05/23/06
Matrix:	Filtrate	Received:	05/24/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	06/02/06	EPA 6010B
Arsenic	5.9	5.0	06/02/06	EPA 6010B
Cadmium	ND	1.0	06/06/06	EPA 6020
Calcium	63,000	500	06/02/06	EPA 6010B
Chromium	ND	10	06/02/06	EPA 6010B
Copper	ND	1.0	06/06/06	EPA 6020
Iron	3,500	100	06/02/06	EPA 6010B
Lead	ND	3.0	06/02/06	EPA 6010B
Magnesium	41,000	500	06/02/06	EPA 6010B
Manganese	2,400	10	06/02/06	EPA 6010B
Nickel	ND	20	06/02/06	EPA 6010B
Potassium	6,900	500	06/02/06	EPA 6010B
Sodium	76,000	500	06/02/06	EPA 6010B
Zinc	ND	20	06/02/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	DUP0523061A	Batch#:	113955
Lab ID:	187020-008	Sampled:	05/23/06
Matrix:	Filtrate	Received:	05/24/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	06/02/06	EPA 6010B
Arsenic	6.3	5.0	06/02/06	EPA 6010B
Cadmium	ND	1.0	06/06/06	EPA 6020
Calcium	65,000	500	06/02/06	EPA 6010B
Chromium	ND	10	06/02/06	EPA 6010B
Copper	ND	1.0	06/06/06	EPA 6020
Iron	3,400	100	06/02/06	EPA 6010B
Lead	ND	3.0	06/02/06	EPA 6010B
Magnesium	42,000	500	06/02/06	EPA 6010B
Manganese	2,500	10	06/02/06	EPA 6010B
Nickel	ND	20	06/02/06	EPA 6010B
Potassium	7,100	500	06/02/06	EPA 6010B
Sodium	77,000	500	06/02/06	EPA 6010B
Zinc	ND	20	06/02/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	BB3GW100	Batch#:	113955
Lab ID:	187020-009	Sampled:	05/23/06
Matrix:	Filtrate	Received:	05/24/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	06/02/06	EPA 6010B
Antimony	ND	1.0	06/06/06	EPA 6020
Arsenic	ND	5.0	06/02/06	EPA 6010B
Barium	81	10	06/02/06	EPA 6010B
Beryllium	ND	2.0	06/02/06	EPA 6010B
Cadmium	ND	1.0	06/06/06	EPA 6020
Calcium	22,000	500	06/02/06	EPA 6010B
Chromium	ND	10	06/02/06	EPA 6010B
Cobalt	ND	10	06/02/06	EPA 6010B
Copper	1.1	1.0	06/06/06	EPA 6020
Iron	ND	100	06/02/06	EPA 6010B
Lead	ND	3.0	06/02/06	EPA 6010B
Magnesium	74,000	500	06/02/06	EPA 6010B
Manganese	ND	10	06/02/06	EPA 6010B
Nickel	ND	20	06/02/06	EPA 6010B
Potassium	600	500	06/02/06	EPA 6010B
Selenium	ND	5.0	06/02/06	EPA 6010B
Silver	ND	1.0	06/06/06	EPA 6020
Sodium	97,000	500	06/02/06	EPA 6010B
Thallium	ND	1.0	06/06/06	EPA 6020
Vanadium	ND	10	06/02/06	EPA 6010B
Zinc	ND	20	06/02/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	DUP0523063A	Batch#:	113955
Lab ID:	187020-010	Sampled:	05/23/06
Matrix:	Filtrate	Received:	05/24/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	06/02/06	EPA 6010B
Antimony	ND	1.0	06/06/06	EPA 6020
Arsenic	ND	5.0	06/02/06	EPA 6010B
Barium	77	10	06/02/06	EPA 6010B
Beryllium	ND	2.0	06/02/06	EPA 6010B
Cadmium	ND	1.0	06/06/06	EPA 6020
Calcium	21,000	500	06/02/06	EPA 6010B
Chromium	ND	10	06/02/06	EPA 6010B
Cobalt	ND	10	06/02/06	EPA 6010B
Copper	1.6	1.0	06/06/06	EPA 6020
Iron	ND	100	06/02/06	EPA 6010B
Lead	ND	3.0	06/02/06	EPA 6010B
Magnesium	72,000	500	06/02/06	EPA 6010B
Manganese	ND	10	06/02/06	EPA 6010B
Nickel	ND	20	06/02/06	EPA 6010B
Potassium	640	500	06/02/06	EPA 6010B
Selenium	ND	5.0	06/02/06	EPA 6010B
Silver	ND	1.0	06/06/06	EPA 6020
Sodium	95,000	500	06/02/06	EPA 6010B
Thallium	ND	1.0	06/06/06	EPA 6020
Vanadium	ND	10	06/02/06	EPA 6010B
Zinc	ND	20	06/02/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	BB3SW101	Batch#:	113955
Lab ID:	187020-011	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	5,600	100	06/02/06	EPA 6010B
Antimony	ND	1.0	06/06/06	EPA 6020
Arsenic	ND	5.0	06/02/06	EPA 6010B
Barium	92	10	06/02/06	EPA 6010B
Beryllium	ND	2.0	06/02/06	EPA 6010B
Cadmium	ND	1.0	06/06/06	EPA 6020
Calcium	9,300	500	06/02/06	EPA 6010B
Chromium	25	10	06/02/06	EPA 6010B
Cobalt	12	10	06/02/06	EPA 6010B
Copper	11	1.0	06/06/06	EPA 6020
Iron	8,400	100	06/02/06	EPA 6010B
Lead	10	3.0	06/02/06	EPA 6010B
Magnesium	14,000	500	06/02/06	EPA 6010B
Manganese	380	10	06/02/06	EPA 6010B
Nickel	51	20	06/02/06	EPA 6010B
Potassium	1,400	500	06/02/06	EPA 6010B
Selenium	ND	5.0	06/02/06	EPA 6010B
Silver	ND	1.0	06/06/06	EPA 6020
Sodium	34,000	500	06/02/06	EPA 6010B
Thallium	ND	1.0	06/06/06	EPA 6020
Vanadium	26	10	06/02/06	EPA 6010B
Zinc	61	20	06/02/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	BB3SW101	Batch#:	113955
Lab ID:	187020-011	Sampled:	05/23/06
Matrix:	Filtrate	Received:	05/24/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	06/02/06	EPA 6010B
Antimony	ND	1.0	06/06/06	EPA 6020
Arsenic	ND	5.0	06/02/06	EPA 6010B
Barium	13	10	06/02/06	EPA 6010B
Beryllium	ND	2.0	06/02/06	EPA 6010B
Cadmium	ND	1.0	06/06/06	EPA 6020
Calcium	6,500	500	06/02/06	EPA 6010B
Chromium	ND	10	06/02/06	EPA 6010B
Cobalt	ND	10	06/02/06	EPA 6010B
Copper	3.2	1.0	06/06/06	EPA 6020
Iron	ND	100	06/02/06	EPA 6010B
Lead	ND	3.0	06/02/06	EPA 6010B
Magnesium	9,700	500	06/02/06	EPA 6010B
Manganese	78	10	06/02/06	EPA 6010B
Nickel	ND	20	06/02/06	EPA 6010B
Potassium	1,000	500	06/02/06	EPA 6010B
Selenium	ND	5.0	06/02/06	EPA 6010B
Silver	ND	1.0	06/06/06	EPA 6020
Sodium	33,000	500	06/02/06	EPA 6010B
Thallium	ND	1.0	06/06/06	EPA 6020
Vanadium	ND	10	06/02/06	EPA 6010B
Zinc	ND	20	06/02/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	BB3SW104	Batch#:	113955
Lab ID:	187020-012	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	2,700	100	06/02/06	EPA 6010B
Antimony	ND	1.0	06/06/06	EPA 6020
Arsenic	ND	5.0	06/02/06	EPA 6010B
Barium	160	10	06/02/06	EPA 6010B
Beryllium	ND	2.0	06/02/06	EPA 6010B
Cadmium	ND	1.0	06/07/06	EPA 6020
Calcium	28,000	500	06/02/06	EPA 6010B
Chromium	19	10	06/02/06	EPA 6010B
Cobalt	11	10	06/02/06	EPA 6010B
Copper	8.9	1.0	06/06/06	EPA 6020
Iron	3,100	100	06/02/06	EPA 6010B
Lead	11	3.0	06/02/06	EPA 6010B
Magnesium	41,000	500	06/02/06	EPA 6010B
Manganese	360	10	06/02/06	EPA 6010B
Nickel	37	20	06/02/06	EPA 6010B
Potassium	1,200	500	06/02/06	EPA 6010B
Selenium	ND	5.0	06/02/06	EPA 6010B
Silver	ND	1.0	06/06/06	EPA 6020
Sodium	51,000	500	06/02/06	EPA 6010B
Thallium	ND	1.0	06/06/06	EPA 6020
Vanadium	22	10	06/02/06	EPA 6010B
Zinc	50	20	06/02/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	BB3SW104	Batch#:	113955
Lab ID:	187020-012	Sampled:	05/23/06
Matrix:	Filtrate	Received:	05/24/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	06/02/06	EPA 6010B
Antimony	ND	1.0	06/06/06	EPA 6020
Arsenic	ND	5.0	06/02/06	EPA 6010B
Barium	31	10	06/02/06	EPA 6010B
Beryllium	ND	2.0	06/02/06	EPA 6010B
Cadmium	ND	1.0	06/06/06	EPA 6020
Calcium	24,000	500	06/02/06	EPA 6010B
Chromium	ND	10	06/02/06	EPA 6010B
Cobalt	ND	10	06/02/06	EPA 6010B
Copper	2.4	1.0	06/06/06	EPA 6020
Iron	ND	100	06/02/06	EPA 6010B
Lead	ND	3.0	06/02/06	EPA 6010B
Magnesium	41,000	500	06/02/06	EPA 6010B
Manganese	16	10	06/02/06	EPA 6010B
Nickel	ND	20	06/02/06	EPA 6010B
Potassium	970	500	06/02/06	EPA 6010B
Selenium	ND	5.0	06/02/06	EPA 6010B
Silver	ND	1.0	06/06/06	EPA 6020
Sodium	55,000	500	06/02/06	EPA 6010B
Thallium	ND	1.0	06/06/06	EPA 6020
Vanadium	ND	10	06/02/06	EPA 6010B
Zinc	ND	20	06/02/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	BB3SW102	Batch#:	113955
Lab ID:	187020-013	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	2,200	100	06/02/06	EPA 6010B
Antimony	ND	1.0	06/06/06	EPA 6020
Arsenic	ND	5.0	06/02/06	EPA 6010B
Barium	120	10	06/02/06	EPA 6010B
Beryllium	ND	2.0	06/02/06	EPA 6010B
Cadmium	ND	1.0	06/07/06	EPA 6020
Calcium	15,000	500	06/02/06	EPA 6010B
Chromium	64	10	06/02/06	EPA 6010B
Cobalt	ND	10	06/02/06	EPA 6010B
Copper	8.9	1.0	06/06/06	EPA 6020
Iron	3,600	100	06/02/06	EPA 6010B
Lead	6.9	3.0	06/02/06	EPA 6010B
Magnesium	79,000	500	06/02/06	EPA 6010B
Manganese	380	10	06/02/06	EPA 6010B
Nickel	31	20	06/02/06	EPA 6010B
Potassium	1,200	500	06/02/06	EPA 6010B
Selenium	ND	5.0	06/02/06	EPA 6010B
Silver	ND	1.0	06/06/06	EPA 6020
Sodium	73,000	500	06/02/06	EPA 6010B
Thallium	ND	1.0	06/06/06	EPA 6020
Vanadium	16	10	06/02/06	EPA 6010B
Zinc	36	20	06/02/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	BB3SW102	Batch#:	113955
Lab ID:	187020-013	Sampled:	05/23/06
Matrix:	Filtrate	Received:	05/24/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	06/02/06	EPA 6010B
Antimony	ND	1.0	06/06/06	EPA 6020
Arsenic	ND	5.0	06/02/06	EPA 6010B
Barium	56	10	06/02/06	EPA 6010B
Beryllium	ND	2.0	06/02/06	EPA 6010B
Cadmium	ND	1.0	06/06/06	EPA 6020
Calcium	15,000	500	06/02/06	EPA 6010B
Chromium	64	10	06/02/06	EPA 6010B
Cobalt	ND	10	06/02/06	EPA 6010B
Copper	1.0	1.0	06/06/06	EPA 6020
Iron	ND	100	06/02/06	EPA 6010B
Lead	ND	3.0	06/02/06	EPA 6010B
Magnesium	83,000	500	06/02/06	EPA 6010B
Manganese	ND	10	06/02/06	EPA 6010B
Nickel	ND	20	06/02/06	EPA 6010B
Potassium	890	500	06/02/06	EPA 6010B
Selenium	ND	5.0	06/02/06	EPA 6010B
Silver	ND	1.0	06/06/06	EPA 6020
Sodium	76,000	500	06/02/06	EPA 6010B
Thallium	ND	1.0	06/06/06	EPA 6020
Vanadium	ND	10	06/02/06	EPA 6010B
Zinc	ND	20	06/02/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	BB1PZ101	Batch#:	113955
Lab ID:	187020-014	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	ug/L	Prepared:	05/31/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	5,000	100	1.000	06/02/06	EPA 6010B
Antimony	1.7	1.0	1.000	06/06/06	EPA 6020
Arsenic	14	5.0	1.000	06/02/06	EPA 6010B
Barium	130	10	1.000	06/02/06	EPA 6010B
Beryllium	ND	2.0	1.000	06/02/06	EPA 6010B
Cadmium	ND	1.0	1.000	06/07/06	EPA 6020
Calcium	91,000	500	1.000	06/02/06	EPA 6010B
Chromium	24	10	1.000	06/02/06	EPA 6010B
Cobalt	26	10	1.000	06/02/06	EPA 6010B
Copper	230	1.0	2.000	06/08/06	EPA 6020
Iron	14,000	100	1.000	06/02/06	EPA 6010B
Lead	83	3.0	1.000	06/02/06	EPA 6010B
Magnesium	130,000	2,000	10.00	06/02/06	EPA 6010B
Manganese	2,200	10	1.000	06/02/06	EPA 6010B
Nickel	86	20	1.000	06/02/06	EPA 6010B
Potassium	4,600	500	1.000	06/02/06	EPA 6010B
Selenium	ND	5.0	1.000	06/02/06	EPA 6010B
Silver	ND	1.0	1.000	06/06/06	EPA 6020
Sodium	200,000	5,000	10.00	06/02/06	EPA 6010B
Thallium	ND	1.0	1.000	06/06/06	EPA 6020
Vanadium	41	10	1.000	06/02/06	EPA 6010B
Zinc	160	20	1.000	06/02/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	BB1PZ101	Batch#:	113955
Lab ID:	187020-014	Sampled:	05/23/06
Matrix:	Filtrate	Received:	05/24/06
Units:	ug/L	Prepared:	05/31/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	ND	100	1.000	06/02/06	EPA 6010B
Antimony	1.7	1.0	1.000	06/06/06	EPA 6020
Arsenic	ND	5.0	1.000	06/02/06	EPA 6010B
Barium	83	10	1.000	06/02/06	EPA 6010B
Beryllium	ND	2.0	1.000	06/02/06	EPA 6010B
Cadmium	ND	1.0	1.000	06/06/06	EPA 6020
Calcium	83,000	500	1.000	06/02/06	EPA 6010B
Chromium	ND	10	1.000	06/02/06	EPA 6010B
Cobalt	ND	10	1.000	06/02/06	EPA 6010B
Copper	6.7	1.0	1.000	06/06/06	EPA 6020
Iron	ND	100	1.000	06/02/06	EPA 6010B
Lead	ND	3.0	1.000	06/02/06	EPA 6010B
Magnesium	130,000	2,000	10.00	06/02/06	EPA 6010B
Manganese	1,700	10	1.000	06/02/06	EPA 6010B
Nickel	ND	20	1.000	06/02/06	EPA 6010B
Potassium	4,300	500	1.000	06/02/06	EPA 6010B
Selenium	ND	5.0	1.000	06/02/06	EPA 6010B
Silver	ND	1.0	1.000	06/06/06	EPA 6020
Sodium	200,000	5,000	10.00	06/02/06	EPA 6010B
Thallium	ND	1.0	1.000	06/06/06	EPA 6020
Vanadium	ND	10	1.000	06/02/06	EPA 6010B
Zinc	ND	20	1.000	06/02/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	BB1PZ100	Batch#:	113955
Lab ID:	187020-015	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	ug/L	Prepared:	05/31/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	2,500	100	1.000	06/02/06	EPA 6010B
Antimony	ND	1.0	1.000	06/06/06	EPA 6020
Arsenic	ND	5.0	1.000	06/02/06	EPA 6010B
Barium	170	10	1.000	06/02/06	EPA 6010B
Beryllium	ND	2.0	1.000	06/02/06	EPA 6010B
Cadmium	1.2	1.0	1.000	06/07/06	EPA 6020
Calcium	52,000	500	1.000	06/02/06	EPA 6010B
Chromium	100	10	1.000	06/02/06	EPA 6010B
Cobalt	ND	10	1.000	06/02/06	EPA 6010B
Copper	19	1.0	1.000	06/06/06	EPA 6020
Iron	25,000	100	1.000	06/02/06	EPA 6010B
Lead	790	3.0	1.000	06/02/06	EPA 6010B
Magnesium	73,000	500	1.000	06/02/06	EPA 6010B
Manganese	720	10	1.000	06/02/06	EPA 6010B
Nickel	130	20	1.000	06/02/06	EPA 6010B
Potassium	10,000	500	1.000	06/02/06	EPA 6010B
Selenium	ND	5.0	1.000	06/02/06	EPA 6010B
Silver	ND	1.0	1.000	06/06/06	EPA 6020
Sodium	230,000	5,000	10.00	06/02/06	EPA 6010B
Thallium	ND	1.0	1.000	06/06/06	EPA 6020
Vanadium	26	10	1.000	06/02/06	EPA 6010B
Zinc	1,100	20	1.000	06/02/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	BB1PZ100	Batch#:	113955
Lab ID:	187020-015	Sampled:	05/23/06
Matrix:	Filtrate	Received:	05/24/06
Units:	ug/L	Prepared:	05/31/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	ND	100	1.000	06/02/06	EPA 6010B
Antimony	ND	1.0	1.000	06/06/06	EPA 6020
Arsenic	ND	5.0	1.000	06/02/06	EPA 6010B
Barium	110	10	1.000	06/02/06	EPA 6010B
Beryllium	ND	2.0	1.000	06/02/06	EPA 6010B
Cadmium	ND	1.0	1.000	06/06/06	EPA 6020
Calcium	41,000	500	1.000	06/02/06	EPA 6010B
Chromium	ND	10	1.000	06/02/06	EPA 6010B
Cobalt	ND	10	1.000	06/02/06	EPA 6010B
Copper	ND	1.0	1.000	06/06/06	EPA 6020
Iron	220	100	1.000	06/02/06	EPA 6010B
Lead	ND	3.0	1.000	06/02/06	EPA 6010B
Magnesium	61,000	500	1.000	06/02/06	EPA 6010B
Manganese	140	10	1.000	06/02/06	EPA 6010B
Nickel	ND	20	1.000	06/02/06	EPA 6010B
Potassium	10,000	500	1.000	06/02/06	EPA 6010B
Selenium	ND	5.0	1.000	06/02/06	EPA 6010B
Silver	ND	1.0	1.000	06/06/06	EPA 6020
Sodium	240,000	5,000	10.00	06/02/06	EPA 6010B
Thallium	ND	1.0	1.000	06/06/06	EPA 6020
Vanadium	ND	10	1.000	06/02/06	EPA 6010B
Zinc	ND	20	1.000	06/02/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF6GW103	Batch#:	113957
Lab ID:	187020-017	Sampled:	05/23/06
Matrix:	Filtrate	Received:	05/24/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000	Analyzed:	06/07/06

Analyte	Result	RL	Analysis
Aluminum	ND	100	EPA 6010B
Antimony	ND	1.0	EPA 6020
Arsenic	ND	5.0	EPA 6010B
Barium	69	10	EPA 6010B
Beryllium	ND	2.0	EPA 6010B
Cadmium	ND	1.0	EPA 6020
Calcium	35,000	500	EPA 6010B
Chromium	27	10	EPA 6010B
Cobalt	ND	10	EPA 6010B
Copper	ND	1.0	EPA 6020
Iron	ND	100	EPA 6010B
Lead	ND	3.0	EPA 6010B
Magnesium	53,000	500	EPA 6010B
Manganese	ND	10	EPA 6010B
Nickel	ND	20	EPA 6010B
Potassium	630	500	EPA 6010B
Selenium	ND	5.0	EPA 6010B
Silver	ND	1.0	EPA 6020
Sodium	68,000	500	EPA 6010B
Thallium	ND	1.0	EPA 6020
Vanadium	ND	10	EPA 6010B
Zinc	ND	20	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF6GW104	Batch#:	113957
Lab ID:	187020-018	Sampled:	05/23/06
Matrix:	Filtrate	Received:	05/24/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000	Analyzed:	06/07/06

Analyte	Result	RL	Analysis
Aluminum	ND	100	EPA 6010B
Antimony	ND	1.0	EPA 6020
Arsenic	ND	5.0	EPA 6010B
Barium	37	10	EPA 6010B
Beryllium	ND	2.0	EPA 6010B
Cadmium	ND	1.0	EPA 6020
Calcium	36,000	500	EPA 6010B
Chromium	12	10	EPA 6010B
Cobalt	ND	10	EPA 6010B
Copper	2.9	1.0	EPA 6020
Iron	ND	100	EPA 6010B
Lead	ND	3.0	EPA 6010B
Magnesium	56,000	500	EPA 6010B
Manganese	13	10	EPA 6010B
Nickel	ND	20	EPA 6010B
Potassium	610	500	EPA 6010B
Selenium	ND	5.0	EPA 6010B
Silver	ND	1.0	EPA 6020
Sodium	69,000	500	EPA 6010B
Thallium	ND	1.0	EPA 6020
Vanadium	ND	10	EPA 6010B
Zinc	ND	20	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF6GW105	Batch#:	113957
Lab ID:	187020-019	Sampled:	05/23/06
Matrix:	Filtrate	Received:	05/24/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000	Analyzed:	06/07/06

Analyte	Result	RL	Analysis
Aluminum	ND	100	EPA 6010B
Antimony	ND	1.0	EPA 6020
Arsenic	ND	5.0	EPA 6010B
Barium	46	10	EPA 6010B
Beryllium	ND	2.0	EPA 6010B
Cadmium	ND	1.0	EPA 6020
Calcium	40,000	500	EPA 6010B
Chromium	34	10	EPA 6010B
Cobalt	ND	10	EPA 6010B
Copper	ND	1.0	EPA 6020
Iron	ND	100	EPA 6010B
Lead	ND	3.0	EPA 6010B
Magnesium	61,000	500	EPA 6010B
Manganese	ND	10	EPA 6010B
Nickel	ND	20	EPA 6010B
Potassium	780	500	EPA 6010B
Selenium	ND	5.0	EPA 6010B
Silver	ND	1.0	EPA 6020
Sodium	85,000	500	EPA 6010B
Thallium	ND	1.0	EPA 6020
Vanadium	ND	10	EPA 6010B
Zinc	ND	20	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF6GW106	Batch#:	113957
Lab ID:	187020-020	Sampled:	05/23/06
Matrix:	Filtrate	Received:	05/24/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000	Analyzed:	06/07/06

Analyte	Result	RL	Analysis
Aluminum	ND	100	EPA 6010B
Antimony	ND	1.0	EPA 6020
Arsenic	ND	5.0	EPA 6010B
Barium	32	10	EPA 6010B
Beryllium	ND	2.0	EPA 6010B
Cadmium	ND	1.0	EPA 6020
Calcium	35,000	500	EPA 6010B
Chromium	21	10	EPA 6010B
Cobalt	ND	10	EPA 6010B
Copper	ND	1.0	EPA 6020
Iron	ND	100	EPA 6010B
Lead	ND	3.0	EPA 6010B
Magnesium	57,000	500	EPA 6010B
Manganese	ND	10	EPA 6010B
Nickel	ND	20	EPA 6010B
Potassium	730	500	EPA 6010B
Selenium	ND	5.0	EPA 6010B
Silver	ND	1.0	EPA 6020
Sodium	82,000	500	EPA 6010B
Thallium	ND	1.0	EPA 6020
Vanadium	ND	10	EPA 6010B
Zinc	ND	20	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC342079	Batch#:	113955
Matrix:	Filtrate	Prepared:	05/31/06
Units:	ug/L		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	06/02/06	EPA 6010B
Antimony	ND	1.0	06/06/06	EPA 6020
Arsenic	ND	5.0	06/02/06	EPA 6010B
Barium	ND	10	06/02/06	EPA 6010B
Beryllium	ND	2.0	06/02/06	EPA 6010B
Cadmium	ND	1.0	06/06/06	EPA 6020
Calcium	ND	500	06/02/06	EPA 6010B
Chromium	ND	10	06/02/06	EPA 6010B
Cobalt	ND	10	06/02/06	EPA 6010B
Copper	ND	1.0	06/06/06	EPA 6020
Iron	ND	100	06/02/06	EPA 6010B
Lead	ND	3.0	06/02/06	EPA 6010B
Magnesium	ND	500	06/02/06	EPA 6010B
Manganese	ND	10	06/02/06	EPA 6010B
Nickel	ND	20	06/02/06	EPA 6010B
Potassium	ND	500	06/02/06	EPA 6010B
Selenium	ND	5.0	06/02/06	EPA 6010B
Silver	ND	1.0	06/06/06	EPA 6020
Sodium	ND	500	06/02/06	EPA 6010B
Thallium	ND	1.0	06/06/06	EPA 6020
Vanadium	ND	10	06/02/06	EPA 6010B
Zinc	ND	20	06/02/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC342089	Batch#:	113957
Matrix:	Filtrate	Prepared:	05/31/06
Units:	ug/L		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	06/07/06	EPA 6010B
Antimony	ND	1.0	06/06/06	EPA 6020
Arsenic	ND	5.0	06/07/06	EPA 6010B
Barium	ND	10	06/07/06	EPA 6010B
Beryllium	ND	2.0	06/07/06	EPA 6010B
Cadmium	ND	1.0	06/07/06	EPA 6020
Calcium	ND	500	06/07/06	EPA 6010B
Chromium	ND	10	06/07/06	EPA 6010B
Cobalt	ND	10	06/07/06	EPA 6010B
Copper	ND	1.0	06/06/06	EPA 6020
Iron	ND	100	06/07/06	EPA 6010B
Lead	ND	3.0	06/07/06	EPA 6010B
Magnesium	ND	500	06/07/06	EPA 6010B
Manganese	ND	10	06/07/06	EPA 6010B
Nickel	ND	20	06/07/06	EPA 6010B
Potassium	ND	500	06/07/06	EPA 6010B
Selenium	ND	5.0	06/07/06	EPA 6010B
Silver	ND	1.0	06/06/06	EPA 6020
Sodium	ND	500	06/07/06	EPA 6010B
Thallium	ND	1.0	06/06/06	EPA 6020
Vanadium	ND	10	06/07/06	EPA 6010B
Zinc	ND	20	06/07/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Mercury by Cold Vapor AA

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	ug/L	Prepared:	06/01/06
Diln Fac:	1.000	Analyzed:	06/01/06
Batch#:	114013		

Field ID	Type	Lab ID	Result	RL
BB1PZ101	SAMPLE	187020-014	0.54	0.20
BB1PZ100	SAMPLE	187020-015	1.1	0.20
	BLANK	QC342313	ND	0.20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Mercury by Cold Vapor AA

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Sampled:	05/23/06
Units:	ug/L	Received:	05/24/06
Diln Fac:	1.000	Prepared:	06/01/06
Batch#:	114029	Analyzed:	06/01/06

Field ID	Type	Lab ID	Matrix	Result	RL
BB1PZ101	SAMPLE	187020-014	Filtrate	ND	0.20
BB1PZ100	SAMPLE	187020-015	Filtrate	ND	0.20
LF6GW103	SAMPLE	187020-017	Filtrate	ND	0.20
LF6GW104	SAMPLE	187020-018	Filtrate	ND	0.20
LF6GW105	SAMPLE	187020-019	Filtrate	ND	0.20
LF6GW106	SAMPLE	187020-020	Filtrate	ND	0.20
	BLANK	QC342393	Water	ND	0.20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Matrix:	Filtrate	Batch#:	113955
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Type: BS Lab ID: QC342080

Analyte	Spiked	Result	%REC	Limits	Analyzed	Analysis
Aluminum	100.0	95.31	95	80-120	06/02/06	EPA 6010B
Antimony	100.0	98.29	98	80-120	06/06/06	EPA 6020
Arsenic	100.0	103.0	103	80-120	06/02/06	EPA 6010B
Barium	100.0	99.84	100	80-120	06/02/06	EPA 6010B
Beryllium	100.0	103.6	104	80-120	06/02/06	EPA 6010B
Cadmium	100.0	94.90	95	80-120	06/06/06	EPA 6020
Calcium	10,000	9,957	100	80-120	06/02/06	EPA 6010B
Chromium	100.0	102.7	103	80-120	06/02/06	EPA 6010B
Cobalt	100.0	100.5	100	80-120	06/02/06	EPA 6010B
Copper	100.0	102.1	102	80-120	06/06/06	EPA 6020
Iron	10,000	10,140	101	80-120	06/02/06	EPA 6010B
Lead	100.0	98.83	99	80-120	06/02/06	EPA 6010B
Magnesium	10,000	10,130	101	80-120	06/02/06	EPA 6010B
Manganese	100.0	102.3	102	80-120	06/02/06	EPA 6010B
Nickel	100.0	100.8	101	80-120	06/02/06	EPA 6010B
Potassium	10,000	9,908	99	80-120	06/02/06	EPA 6010B
Selenium	100.0	102.3	102	80-120	06/02/06	EPA 6010B
Silver	100.0	94.92	95	80-120	06/06/06	EPA 6020
Sodium	10,000	9,869	99	80-120	06/02/06	EPA 6010B
Thallium	100.0	88.49	88	80-120	06/06/06	EPA 6020
Vanadium	100.0	103.0	103	80-120	06/02/06	EPA 6010B
Zinc	100.0	106.6	107	80-120	06/02/06	EPA 6010B

Type: BSD Lab ID: QC342081

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed	Analysis
Aluminum	100.0	94.07	94	80-120	1	20	06/02/06	EPA 6010B
Antimony	100.0	98.14	98	80-120	0	20	06/06/06	EPA 6020
Arsenic	100.0	103.4	103	80-120	0	20	06/02/06	EPA 6010B
Barium	100.0	100.3	100	80-120	0	20	06/02/06	EPA 6010B
Beryllium	100.0	104.0	104	80-120	0	20	06/02/06	EPA 6010B
Cadmium	100.0	92.17	92	80-120	3	20	06/06/06	EPA 6020
Calcium	10,000	9,865	99	80-120	1	20	06/02/06	EPA 6010B
Chromium	100.0	103.5	103	80-120	1	20	06/02/06	EPA 6010B
Cobalt	100.0	101.6	102	80-120	1	20	06/02/06	EPA 6010B
Copper	100.0	103.0	103	80-120	1	20	06/06/06	EPA 6020
Iron	10,000	9,806	98	80-120	3	20	06/02/06	EPA 6010B
Lead	100.0	100.7	101	80-120	2	20	06/02/06	EPA 6010B
Magnesium	10,000	9,879	99	80-120	3	20	06/02/06	EPA 6010B
Manganese	100.0	102.8	103	80-120	0	20	06/02/06	EPA 6010B
Nickel	100.0	102.1	102	80-120	1	20	06/02/06	EPA 6010B
Potassium	10,000	9,983	100	80-120	1	20	06/02/06	EPA 6010B
Selenium	100.0	104.1	104	80-120	2	20	06/02/06	EPA 6010B
Silver	100.0	94.10	94	80-120	1	20	06/06/06	EPA 6020
Sodium	10,000	9,761	98	80-120	1	20	06/02/06	EPA 6010B
Thallium	100.0	89.30	89	80-120	1	20	06/06/06	EPA 6020
Vanadium	100.0	103.7	104	80-120	1	20	06/02/06	EPA 6010B
Zinc	100.0	108.0	108	80-120	1	20	06/02/06	EPA 6010B

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Matrix:	Filtrate	Batch#:	113957
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Type: BS Lab ID: QC342090

Analyte	Spiked	Result	%REC	Limits	Analyzed	Analysis
Aluminum	100.0	88.69	89	80-120	06/07/06	EPA 6010B
Antimony	100.0	91.43	91	80-120	06/06/06	EPA 6020
Arsenic	100.0	100.2	100	80-120	06/07/06	EPA 6010B
Barium	100.0	100.3	100	80-120	06/07/06	EPA 6010B
Beryllium	100.0	101.5	102	80-120	06/07/06	EPA 6010B
Cadmium	100.0	92.76	93	80-120	06/07/06	EPA 6020
Calcium	10,000	9,858	99	80-120	06/07/06	EPA 6010B
Chromium	100.0	101.1	101	80-120	06/07/06	EPA 6010B
Cobalt	100.0	98.78	99	80-120	06/07/06	EPA 6010B
Copper	100.0	98.24	98	80-120	06/06/06	EPA 6020
Iron	10,000	9,678	97	80-120	06/07/06	EPA 6010B
Lead	100.0	99.18	99	80-120	06/07/06	EPA 6010B
Magnesium	10,000	9,623	96	80-120	06/07/06	EPA 6010B
Manganese	100.0	101.7	102	80-120	06/07/06	EPA 6010B
Nickel	100.0	100.3	100	80-120	06/07/06	EPA 6010B
Potassium	10,000	9,739	97	80-120	06/07/06	EPA 6010B
Selenium	100.0	99.12	99	80-120	06/07/06	EPA 6010B
Silver	100.0	83.68	84	80-120	06/06/06	EPA 6020
Sodium	10,000	10,030	100	80-120	06/07/06	EPA 6010B
Thallium	100.0	82.81	83	80-120	06/06/06	EPA 6020
Vanadium	100.0	100.3	100	80-120	06/07/06	EPA 6010B
Zinc	100.0	102.6	103	80-120	06/07/06	EPA 6010B

Type: BSD Lab ID: QC342091

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed	Analysis
Aluminum	100.0	81.50	81	80-120	8	20	06/07/06	EPA 6010B
Antimony	100.0	90.08	90	80-120	1	20	06/06/06	EPA 6020
Arsenic	100.0	102.5	102	80-120	2	20	06/07/06	EPA 6010B
Barium	100.0	100.1	100	80-120	0	20	06/07/06	EPA 6010B
Beryllium	100.0	100.9	101	80-120	1	20	06/07/06	EPA 6010B
Cadmium	100.0	91.79	92	80-120	1	20	06/07/06	EPA 6020
Calcium	10,000	10,110	101	80-120	3	20	06/07/06	EPA 6010B
Chromium	100.0	100.6	101	80-120	1	20	06/07/06	EPA 6010B
Cobalt	100.0	99.21	99	80-120	0	20	06/07/06	EPA 6010B
Copper	100.0	97.74	98	80-120	1	20	06/06/06	EPA 6020
Iron	10,000	9,691	97	80-120	0	20	06/07/06	EPA 6010B
Lead	100.0	99.61	100	80-120	0	20	06/07/06	EPA 6010B
Magnesium	10,000	9,794	98	80-120	2	20	06/07/06	EPA 6010B
Manganese	100.0	101.3	101	80-120	0	20	06/07/06	EPA 6010B
Nickel	100.0	100.6	101	80-120	0	20	06/07/06	EPA 6010B
Potassium	10,000	10,860	109	80-120	11	20	06/07/06	EPA 6010B
Selenium	100.0	101.2	101	80-120	2	20	06/07/06	EPA 6010B
Silver	100.0	82.56	83	80-120	1	20	06/06/06	EPA 6020
Sodium	10,000	11,040	110	80-120	10	20	06/07/06	EPA 6010B
Thallium	100.0	81.79	82	80-120	1	20	06/06/06	EPA 6020
Vanadium	100.0	99.21	99	80-120	1	20	06/07/06	EPA 6010B
Zinc	100.0	103.8	104	80-120	1	20	06/07/06	EPA 6010B

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Mercury by Cold Vapor AA

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	114013
Field ID:	BB1PZ101	Sampled:	05/23/06
MSS Lab ID:	187020-014	Received:	05/24/06
Matrix:	Water	Prepared:	06/01/06
Units:	ug/L	Analyzed:	06/01/06
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC342315		5.000	5.070	101	80-120		
BSD	QC342316		5.000	4.770	95	80-120	6	20
MS	QC342317	0.5370	5.000	6.110	111	75-125		
MSD	QC342318		5.000	5.940	108	75-125	3	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Mercury by Cold Vapor AA

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	114029
Field ID:	ZZZZZZZZZZ	Sampled:	05/30/06
MSS Lab ID:	187133-003	Received:	05/30/06
Matrix:	Water	Prepared:	06/01/06
Units:	ug/L	Analyzed:	06/01/06
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC342395		5.000	5.590	112	80-120		
BSD	QC342396		5.000	5.550	111	80-120	1	20
MS	QC342397	<0.02083	5.000	5.980	120	75-125		
MSD	QC342398		5.000	5.930	119	75-125	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	600GW101	Batch#:	113955
MSS Lab ID:	187020-001	Sampled:	05/23/06
Matrix:	Filtrate	Received:	05/24/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Type: MS Lab ID: QC342082

Analyte	MSS Result	Spiked	Result	%REC	Limits	Analyzed	Analysis
Aluminum	<42.49	100.0	108.0	108	75-125	06/02/06	EPA 6010B
Antimony	0.1253	100.0	98.38	98	75-125	06/06/06	EPA 6020
Arsenic	<1.047	100.0	105.8	106	75-125	06/02/06	EPA 6010B
Barium	18.46	100.0	117.0	99	75-125	06/02/06	EPA 6010B
Beryllium	<0.2089	100.0	105.3	105	75-125	06/02/06	EPA 6010B
Cadmium	<0.1409	100.0	84.78	85	75-125	06/06/06	EPA 6020
Calcium	99,420	10,000	112,700 >LR	133 NM	75-125	06/02/06	EPA 6010B
Chromium	0.6602	100.0	102.3	102	75-125	06/02/06	EPA 6010B
Cobalt	<0.4605	100.0	95.72	96	75-125	06/02/06	EPA 6010B
Copper	2.066	100.0	94.82	93	75-125	06/06/06	EPA 6020
Iron	9,589	10,000	19,590	100	75-125	06/02/06	EPA 6010B
Lead	<0.5698	100.0	92.84	93	75-125	06/02/06	EPA 6010B
Magnesium	56,350	10,000	67,800	114 NM	75-125	06/02/06	EPA 6010B
Manganese	1,384	100.0	1,488	104 NM	75-125	06/02/06	EPA 6010B
Nickel	<0.9182	100.0	94.46	94	75-125	06/02/06	EPA 6010B
Potassium	14,920	10,000	25,760	108	75-125	06/02/06	EPA 6010B
Selenium	<1.575	100.0	105.2	105	75-125	06/02/06	EPA 6010B
Silver	<0.04084	100.0	86.61	87	75-125	06/06/06	EPA 6020
Sodium	145,800	10,000	139,700 >LR	-61 NM	75-125	06/02/06	EPA 6010B
Thallium	0.1525	100.0	86.72	87	75-125	06/06/06	EPA 6020
Vanadium	1.084	100.0	105.3	104	75-125	06/02/06	EPA 6010B
Zinc	<1.533	100.0	101.3	101	75-125	06/02/06	EPA 6010B

NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	600GW101	Batch#:	113955
MSS Lab ID:	187020-001	Sampled:	05/23/06
Matrix:	Filtrate	Received:	05/24/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Type: MSD Lab ID: QC342083

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed	Analysis
Aluminum	100.0	90.71	91	75-125	17	20	06/02/06	EPA 6010B
Antimony	100.0	100.7	101	75-125	2	20	06/06/06	EPA 6020
Arsenic	100.0	105.8	106	75-125	0	20	06/02/06	EPA 6010B
Barium	100.0	118.5	100	75-125	1	20	06/02/06	EPA 6010B
Beryllium	100.0	107.6	108	75-125	2	20	06/02/06	EPA 6010B
Cadmium	100.0	87.68	88	75-125	3	20	06/06/06	EPA 6020
Calcium	10,000	106,500 >LR	71 NM	75-125	NC	20	06/02/06	EPA 6010B
Chromium	100.0	104.5	104	75-125	2	20	06/02/06	EPA 6010B
Cobalt	100.0	97.83	98	75-125	2	20	06/02/06	EPA 6010B
Copper	100.0	96.70	95	75-125	2	20	06/06/06	EPA 6020
Iron	10,000	19,030	94	75-125	3	20	06/02/06	EPA 6010B
Lead	100.0	94.80	95	75-125	2	20	06/02/06	EPA 6010B
Magnesium	10,000	64,700	84 NM	75-125	5	20	06/02/06	EPA 6010B
Manganese	100.0	1,458	74 NM	75-125	2	20	06/02/06	EPA 6010B
Nickel	100.0	97.63	98	75-125	3	20	06/02/06	EPA 6010B
Potassium	10,000	24,960	100	75-125	3	20	06/02/06	EPA 6010B
Selenium	100.0	105.8	106	75-125	0	20	06/02/06	EPA 6010B
Silver	100.0	89.29	89	75-125	3	20	06/06/06	EPA 6020
Sodium	10,000	132,200 >LR	-136 NM	75-125	NC	20	06/02/06	EPA 6010B
Thallium	100.0	89.85	90	75-125	4	20	06/06/06	EPA 6020
Vanadium	100.0	106.9	106	75-125	1	20	06/02/06	EPA 6010B
Zinc	100.0	103.4	103	75-125	2	20	06/02/06	EPA 6010B

NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	1065MW9B	Batch#:	113957
MSS Lab ID:	187112-002	Sampled:	05/25/06
Matrix:	Filtrate	Received:	05/26/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Type: MS Lab ID: QC342092

Analyte	MSS Result	Spiked	Result	%REC	Limits	Analyzed	Analysis
Aluminum	<42.49	100.0	62.35	62 *	75-125	06/07/06	EPA 6010B
Antimony	0.07985	100.0	91.68	92	75-125	06/06/06	EPA 6020
Arsenic	2.737	100.0	98.65	96	75-125	06/07/06	EPA 6010B
Barium	39.79	100.0	138.8	99	75-125	06/07/06	EPA 6010B
Beryllium	<0.2089	100.0	102.4	102	75-125	06/07/06	EPA 6010B
Cadmium	0.1496	100.0	84.37	84	75-125	06/07/06	EPA 6020
Calcium	36,600	10,000	45,060	85	75-125	06/07/06	EPA 6010B
Chromium	37.88	100.0	138.2	100	75-125	06/07/06	EPA 6010B
Cobalt	<0.4605	100.0	96.38	96	75-125	06/07/06	EPA 6010B
Copper	0.3338	100.0	91.08	91	75-125	06/06/06	EPA 6020
Iron	<17.23	10,000	9,440	94	75-125	06/07/06	EPA 6010B
Lead	<0.5698	100.0	95.97	96	75-125	06/07/06	EPA 6010B
Magnesium	49,790	10,000	57,170	74 NM	75-125	06/07/06	EPA 6010B
Manganese	<0.5991	100.0	101.7	102	75-125	06/07/06	EPA 6010B
Nickel	1.802	100.0	101.1	99	75-125	06/07/06	EPA 6010B
Potassium	726.7	10,000	10,700	100	75-125	06/07/06	EPA 6010B
Selenium	<1.575	100.0	97.81	98	75-125	06/07/06	EPA 6010B
Silver	<0.04084	100.0	79.25	79	75-125	06/06/06	EPA 6020
Sodium	54,880	10,000	63,560	87 NM	75-125	06/07/06	EPA 6010B
Thallium	0.4686	100.0	77.61	77	75-125	06/06/06	EPA 6020
Vanadium	13.33	100.0	114.1	101	75-125	06/07/06	EPA 6010B
Zinc	<1.533	100.0	101.9	102	75-125	06/07/06	EPA 6010B

*= Value outside of QC limits; see narrative
NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	1065MW9B	Batch#:	113957
MSS Lab ID:	187112-002	Sampled:	05/25/06
Matrix:	Filtrate	Received:	05/26/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Type: MSD Lab ID: QC342093

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed	Analysis
Aluminum	100.0	48.35	48 *	75-125	25 *	20	06/07/06	EPA 6010B
Antimony	100.0	95.12	95	75-125	4	20	06/06/06	EPA 6020
Arsenic	100.0	108.5	106	75-125	10	20	06/07/06	EPA 6010B
Barium	100.0	141.5	102	75-125	2	20	06/07/06	EPA 6010B
Beryllium	100.0	103.7	104	75-125	1	20	06/07/06	EPA 6010B
Cadmium	100.0	85.81	86	75-125	2	20	06/07/06	EPA 6020
Calcium	10,000	46,610	100	75-125	3	20	06/07/06	EPA 6010B
Chromium	100.0	143.6	106	75-125	4	20	06/07/06	EPA 6010B
Cobalt	100.0	99.77	100	75-125	3	20	06/07/06	EPA 6010B
Copper	100.0	92.64	92	75-125	2	20	06/06/06	EPA 6020
Iron	10,000	9,602	96	75-125	2	20	06/07/06	EPA 6010B
Lead	100.0	96.52	97	75-125	1	20	06/07/06	EPA 6010B
Magnesium	10,000	59,090	93 NM	75-125	3	20	06/07/06	EPA 6010B
Manganese	100.0	102.6	103	75-125	1	20	06/07/06	EPA 6010B
Nickel	100.0	102.9	101	75-125	2	20	06/07/06	EPA 6010B
Potassium	10,000	10,940	102	75-125	2	20	06/07/06	EPA 6010B
Selenium	100.0	96.38	96	75-125	1	20	06/07/06	EPA 6010B
Silver	100.0	81.58	82	75-125	3	20	06/06/06	EPA 6020
Sodium	10,000	66,280	114 NM	75-125	4	20	06/07/06	EPA 6010B
Thallium	100.0	81.13	81	75-125	4	20	06/06/06	EPA 6020
Vanadium	100.0	116.7	103	75-125	2	20	06/07/06	EPA 6010B
Zinc	100.0	102.8	103	75-125	1	20	06/07/06	EPA 6010B

*= Value outside of QC limits; see narrative
NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	600GW101	Units:	ug/L
Type:	Serial Dilution	Batch#:	113955
MSS Lab ID:	187020-001	Sampled:	05/23/06
Lab ID:	QC342084	Received:	05/24/06
Matrix:	Filtrate		

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Diln Fac	Analyzed	Analysis
Aluminum	ND	100.0	ND	500.0	NC	10	5.000	06/02/06	EPA 6010B
Antimony	ND	1.000	ND	1.250	NC	10	5.000	06/06/06	EPA 6020
Arsenic	ND	5.000	ND	25.00	NC	10	5.000	06/02/06	EPA 6010B
Barium	18.46	10.00	16.86 J	25.00	NC	10	5.000	06/02/06	EPA 6010B
Beryllium	ND	2.000	ND	10.00	NC	10	5.000	06/02/06	EPA 6010B
Cadmium	ND	1.000	ND	1.250	NC	10	5.000	06/06/06	EPA 6020
Calcium	99,420	500.0	98,510	1,000	1	10	5.000	06/02/06	EPA 6010B
Chromium	ND	10.00	ND	25.00	NC	10	5.000	06/02/06	EPA 6010B
Cobalt	ND	10.00	ND	25.00	NC	10	5.000	06/02/06	EPA 6010B
Copper	2.066	1.000	ND	2.500	NC	10	5.000	06/06/06	EPA 6020
Iron	9,589	100.0	9,502	500.0	1	10	5.000	06/02/06	EPA 6010B
Lead	ND	3.000	ND	15.00	NC	10	5.000	06/02/06	EPA 6010B
Magnesium	56,350	500.0	56,100	1,000	0	10	5.000	06/02/06	EPA 6010B
Manganese	1,384	10.00	1,320	25.00	5	10	5.000	06/02/06	EPA 6010B
Nickel	ND	20.00	ND	25.00	NC	10	5.000	06/02/06	EPA 6010B
Potassium	14,920	500.0	14,470	2,500	3	10	5.000	06/02/06	EPA 6010B
Selenium	ND	5.000	ND	25.00	NC	10	5.000	06/02/06	EPA 6010B
Silver	ND	1.000	ND	1.250	NC	10	5.000	06/06/06	EPA 6020
Sodium	145,800	5,000	147,100	25,000	1	10	50.00	06/02/06	EPA 6010B
Thallium	ND	1.000	ND	2.500	NC	10	5.000	06/06/06	EPA 6020
Vanadium	ND	10.00	ND	25.00	NC	10	5.000	06/02/06	EPA 6010B
Zinc	ND	20.00	ND	100.0	NC	10	5.000	06/02/06	EPA 6010B

J= Estimated value
NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	1065MW9B	Units:	ug/L
Type:	Serial Dilution	Diln Fac:	5.000
MSS Lab ID:	187112-002	Batch#:	113957
Lab ID:	QC342094	Sampled:	05/25/06
Matrix:	Filtrate	Received:	05/26/06

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Analyzed	Analysis
Aluminum	ND	100.0	ND	500.0	NC	10	06/07/06	EPA 6010B
Antimony	ND	1.000	ND	1.250	NC	10	06/06/06	EPA 6020
Arsenic	ND	5.000	7.052 J	25.00	NC	10	06/07/06	EPA 6010B
Barium	39.79	10.00	39.88	25.00	0	10	06/07/06	EPA 6010B
Beryllium	ND	2.000	ND	10.00	NC	10	06/07/06	EPA 6010B
Cadmium	ND	1.000	ND	1.250	NC	10	06/07/06	EPA 6020
Calcium	36,600	500.0	38,150	1,000	4	10	06/07/06	EPA 6010B
Chromium	37.88	10.00	38.43	25.00	1	10	06/07/06	EPA 6010B
Cobalt	ND	10.00	ND	25.00	NC	10	06/07/06	EPA 6010B
Copper	ND	1.000	ND	2.500	NC	10	06/06/06	EPA 6020
Iron	ND	100.0	ND	500.0	NC	10	06/07/06	EPA 6010B
Lead	ND	3.000	ND	15.00	NC	10	06/07/06	EPA 6010B
Magnesium	49,790	500.0	51,130	1,000	3	10	06/07/06	EPA 6010B
Manganese	ND	10.00	ND	25.00	NC	10	06/07/06	EPA 6010B
Nickel	ND	20.00	ND	25.00	NC	10	06/07/06	EPA 6010B
Potassium	726.7	500.0	ND	2,500	NC	10	06/07/06	EPA 6010B
Selenium	ND	5.000	ND	25.00	NC	10	06/07/06	EPA 6010B
Silver	ND	1.000	ND	1.250	NC	10	06/06/06	EPA 6020
Sodium	54,880	500.0	56,770	2,500	3	10	06/07/06	EPA 6010B
Thallium	ND	1.000	0.8661 J	2.500	NC	10	06/06/06	EPA 6020
Vanadium	13.33	10.00	14.40 J	25.00	NC	10	06/07/06	EPA 6010B
Zinc	ND	20.00	ND	100.0	NC	10	06/07/06	EPA 6010B

J= Estimated value
NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Mercury by Cold Vapor AA

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Units:	ug/L
Field ID:	ZZZZZZZZZZ	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	114029
MSS Lab ID:	187103-001	Sampled:	05/16/06
Lab ID:	QC342401	Received:	05/17/06
Matrix:	WET Leachate	Analyzed:	06/01/06

MSS Result	MSS RL	Result	RL	% Diff	Lim
ND	1.000	ND	5.000	NC	10

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : MSS
Inst : MET08
Seqnum: 86221130011
File : 060206br.txt
IDF : 10.0
Lab ID: 187020-001
Matrix: Filtrate
Batch : 113955
Time : 02-JUN-2006 14:14
Cal : 86221130001
Units : ug/L

Type : PDS
Inst : MET08
Seqnum: 86221130015
File : 060206br.txt
IDF : 10.0
Lab ID: QC342085
Matrix: Filtrate
Batch : 113955
Time : 02-JUN-2006 14:27
Cal : 86221130001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S1792 (100X), S1793 (100X)

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Aluminum	ND	R	2000	2182	R	109	75-125	
Antimony	ND	A	500.0	547.1	A	109	75-125	
Arsenic	ND	A	100.0	105.5	A	106	75-125	
Barium	1.789	A	2000	2216	A	111	75-125	
Beryllium	ND	A	50.00	57.94	A	116	75-125	
Calcium	11530	R	20000	33270	R	109	75-125	
Chromium	ND	A	200.0	224.1	A	112	75-125	
Cobalt	ND	A	500.0	531.1	A	106	75-125	
Iron	1145	R	1000	2218	R	107	75-125	
Lead	ND	A	100.0	104.1	A	104	75-125	
Magnesium	6672	R	20000	28400	R	109	75-125	
Manganese	147.2	A	50.00	200.6	A	107	75-125	
Molybdenum	ND	A	400.0	454.7	A	114	75-125	
Nickel	ND	A	500.0	534.6	A	107	75-125	
Potassium	1552	R	10000	12650	R	111	75-125	
Selenium	ND	A	100.0	111.4	A	111	75-125	
Silver	ND	A	50.00	54.79	A	110	75-125	
Sodium	14580	R	20000	36550	R	110	75-125	
Thallium	ND	A	100.0	109.9	A	110	75-125	
Vanadium	ND	A	500.0	573.5	A	115	75-125	
Zinc	ND	A	500.0	560.1	A	112	75-125	
Boron	33.50	A	1000	1161	A	113	75-125	
Tin	ND	A	1000	1066	A	107	75-125	
Titanium	1.062	A	1000	1163	A	116	75-125	

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	2075906	1992976	-3.99

MISSING READINGS: **CD CU**

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : MSS
Inst : MET08
Seqnum: 86221130053
File : 060206br.txt
IDF : 1.0
Lab ID: 187020-001
Matrix: Filtrate
Batch : 113955
Time : 02-JUN-2006 16:51
Cal : 86221130001
Units : ug/L

Type : PDS
Inst : MET08
Seqnum: 86221130057
File : 060206br.txt
IDF : 1.0
Lab ID: QC342085
Matrix: Filtrate
Batch : 113955
Time : 02-JUN-2006 17:02
Cal : 86221130001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S1792 (100X), S1793 (100X)

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Aluminum	ND	R	2000	1912	R	96	75-125	
Antimony	ND	A	500.0	539.0	A	108	75-125	
Arsenic	ND	A	100.0	112.2	A	112	75-125	
Barium	18.46	A	2000	2087	A	103	75-125	
Beryllium	ND	A	50.00	54.76	A	110	75-125	
Cadmium	ND	A	50.00	52.75	A	105	75-125	
Calcium	99420	R	20000	117400 >LR	R	90	75-125	: >LR
Chromium	0.6602	A	200.0	208.0	A	104	75-125	
Cobalt	ND	A	500.0	490.3	A	98	75-125	
Copper	ND	A	250.0	252.3	A	101	75-125	
Iron	9589	R	1000	10440	R	85	75-125	:
Lead	ND	A	100.0	92.30	A	92	75-125	
Magnesium	56350	R	20000	75120	R	94	75-125	
Manganese	1384	A	50.00	1403	A	38	75-125	:
Molybdenum	ND	A	400.0	424.9	A	106	75-125	
Nickel	ND	A	500.0	483.6	A	97	75-125	
Potassium	14920	R	10000	25040	R	101	75-125	
Selenium	ND	A	100.0	107.9	A	108	75-125	
Silver	ND	A	50.00	51.18	A	102	75-125	
Thallium	1.918	A	100.0	101.4	A	99	75-125	
Vanadium	1.084	A	500.0	534.9	A	107	75-125	
Zinc	ND	A	500.0	523.1	A	105	75-125	
Boron	504.4	A	1000	1599	A	109	75-125	
Tin	ND	A	1000	1057	A	106	75-125	
Titanium	ND	A	1000	1096	A	110	75-125	

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	2075906	1961620	-5.51

:=recovery not meaningful >LR=overrange

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET05
Seqnum: 56226997041
File : f0615041
IDF : 1.0
Lab ID: 187020-001
Matrix: Filtrate
Batch : 113955
Time : 06-JUN-2006 19:15
Cal : 56226997001
Units : ug/L

Type : PDS
Inst : MET05
Seqnum: 56226997045
File : f0615045
IDF : 1.0
Lab ID: QC342085
Matrix: Filtrate
Batch : 113955
Time : 06-JUN-2006 19:38
Cal : 56226997001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S3085 (100X), S3310

Analyte	MSS	Spiked	PDS	%Rec	Limits	Flags
Aluminum	7.908	100.0	106.1	98	75-125	
Antimony	0.1253	100.0	98.05	98	75-125	
Arsenic	2.657	100.0	94.86	92	75-125	
Barium	18.23	100.0	115.3	97	75-125	
Beryllium	ND	100.0	98.88	99	75-125	
Cadmium	ND	100.0	86.90	87	75-125	
Chromium	1.121	100.0	98.60	97	75-125	
Cobalt	0.3219	100.0	93.87	94	75-125	
Copper	2.066	100.0	94.46	92	75-125	
Iron	10380	10000	19860	95	75-125	
Lead	ND	100.0	99.31	99	75-125	
Molybdenum	0.1849	100.0	93.42	93	75-125	
Nickel	1.117	100.0	94.90	94	75-125	
Potassium	14730	10000	23540 >LR	88	75-125	>LR b*
Selenium	0.4633	100.0	84.35	84	75-125	
Silver	ND	100.0	87.23	87	75-125	
Thallium	0.1525	100.0	88.26	88	75-125	
Vanadium	1.094	100.0	96.32	95	75-125	
Zinc	6.224	100.0	92.75	87	75-125	

ISTD (ICALBLK f0615003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	409002	384810	-5.91
Scandium	289167	282307	-2.37
Germanium	59725	54727	-8.37
Indium	466498	378281	-18.91
Bismuth	483064	371629	-23.07

MISSING READINGS: **CA MG MN NA**

>LR=overrange b=noncompliant

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : PDS
Inst : MET05
Seqnum: 56228694036
File : f0719036
IDF : 1.0
Lab ID: QC342095
Matrix: Filtrate
Batch : 113957
Time : 07-JUN-2006 22:50
Cal : 56228694001
MSS : 187112-002
Units : ug/L

PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S3085 (100X)

Analyte	MSS Seqnum	Result	Spiked	PDS	%Rec	Limits	Flags
Aluminum	56226997088	1.720	100.0	118.0	116	75-125	<c+ >c+ **b***
Antimony	56226997088	0.07985	100.0	101.1	101	75-125	
Arsenic	56226997088	1.213	100.0	96.89	96	75-125	
Barium	56228694027	37.00	100.0	134.7	98	75-125	
Beryllium	56228694027	0.05798	100.0	108.8	109	75-125	<c+ >c+ **b***
Cadmium	56228694027	0.1496	100.0	84.40	84	75-125	
Chromium	56226997088	34.30	100.0	122.1	88	75-125	>c- **b***
Cobalt	56228694027	0.1370	100.0	88.51	88	75-125	
Copper	56226997088	0.3338	100.0	95.70	95	75-125	
Iron	56226997088	73.03	10000	9843	98	75-125	
Lead	56226997088	ND	100.0	100.1	100	75-125	
Manganese	56226997088	0.5746	100.0	88.95	88	75-125	
Molybdenum	56228694027	0.3691	100.0	92.90	93	75-125	
Nickel	56226997088	2.835	100.0	96.94	94	75-125	
Potassium	56226997088	645.6	10000	10960	103	75-125	<c+ >c+ **b***
Selenium	56228694027	ND	100.0	84.40	84	75-125	
Silver	56228694027	ND	100.0	86.68	87	75-125	
Thallium	56228694027	0.5459	100.0	87.80	87	75-125	
Vanadium	56226997088	11.22	100.0	98.45	87	75-125	
Zinc	56226997088	2.446	100.0	91.68	89	75-125	

ISTD (ICALBLK f0719003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	566835	522618	-7.80
Scandium	419934	402810	-4.08
Germanium	79792	79873	0.10
Indium	561698	456002	-18.82
Bismuth	398573	298598	-25.08

MISSING READINGS: **CA MG NA**

+=high bias -=low bias <=opening >=closing b=noncompliant c=CCV

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET05
Seqnum: 56226997088
File : f0615088
IDF : 1.0
Lab ID: 187112-002
Matrix: Filtrate
Batch : 113957
Time : 06-JUN-2006 23:38
Cal : 56226997001
Units : ug/L

Type : PDS
Inst : MET05
Seqnum: 56226997092
File : f0615092
IDF : 1.0
Lab ID: QC342095
Matrix: Filtrate
Batch : 113957
Time : 07-JUN-2006 00:00
Cal : 56226997001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S3085 (100X), S3310

Analyte	MSS	Spiked	PDS	%Rec	Limits	Flags
Aluminum	1.720	100.0	101.8	100	75-125	<c+ **b***
Antimony	0.07985	100.0	92.86	93	75-125	
Arsenic	1.213	100.0	88.92	88	75-125	
Barium	35.24	100.0	126.7	91	75-125	
Beryllium	ND	100.0	97.45	97	75-125	
Chromium	34.30	100.0	124.9	91	75-125	
Cobalt	0.08024	100.0	88.66	89	75-125	
Copper	0.3338	100.0	92.38	92	75-125	
Iron	73.03	10000	9681	96	75-125	
Lead	ND	100.0	93.36	93	75-125	
Manganese	0.5746	100.0	87.26	87	75-125	
Molybdenum	ND	100.0	84.73	85	75-125	
Nickel	2.835	100.0	93.06	90	75-125	
Potassium	645.6	10000	9832	92	75-125	
Selenium	0.3919	100.0	79.82	79	75-125	
Silver	ND	100.0	81.00	81	75-125	
Thallium	0.4686	100.0	80.62	80	75-125	
Vanadium	11.22	100.0	98.82	88	75-125	
Zinc	2.446	100.0	88.72	86	75-125	

ISTD (ICALBLK f0615003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	409002	389117	-4.86
Scandium	289167	277526	-4.03
Germanium	59725	53871	-9.80
Indium	466498	354305	-24.05
Bismuth	483064	345236	-28.53

MISSING READINGS: **CD CA MG NA**

+=high bias <=opening b=noncompliant c=CCV

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : MSS
Inst : MET08
Seqnum: 86228386019
File : 060706ar.txt
IDF : 1.0
Lab ID: 187112-002
Matrix: Filtrate
Batch : 113957
Time : 07-JUN-2006 15:44
Cal : 86228386001
Units : ug/L

Type : PDS
Inst : MET08
Seqnum: 86228386025
File : 060706ar.txt
IDF : 1.0
Lab ID: QC342095
Matrix: Filtrate
Batch : 113957
Time : 07-JUN-2006 16:01
Cal : 86228386001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S1792 (100X), S1793 (100X)

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Aluminum	ND	R	2000	1970	R	99	75-125	
Antimony	ND	A	500.0	535.1	A	107	75-125	
Arsenic	2.737	A	100.0	112.3	A	110	75-125	
Barium	39.79	A	2000	2168	A	106	75-125	
Beryllium	ND	A	50.00	54.44	A	109	75-125	
Cadmium	ND	A	50.00	55.11	A	110	75-125	
Calcium	36600	R	20000	54830	R	91	75-125	
Chromium	37.88	A	200.0	253.5	A	108	75-125	
Cobalt	ND	A	500.0	516.6	A	103	75-125	
Copper	0.7775	A	250.0	267.7	A	107	75-125	
Iron	ND	R	1000	1006	R	101	75-125	
Lead	ND	A	100.0	99.04	A	99	75-125	
Magnesium	49790	R	20000	66870	R	85	75-125	
Manganese	ND	A	50.00	54.21	A	108	75-125	
Molybdenum	1.074	A	400.0	433.7	A	108	75-125	
Nickel	1.802	A	500.0	527.4	A	105	75-125	
Potassium	726.7	R	10000	11330	R	106	75-125	
Selenium	ND	A	100.0	107.5	A	107	75-125	
Silver	ND	A	50.00	54.39	A	109	75-125	
Sodium	54880	R	20000	74020	R	96	75-125	
Thallium	2.351	A	100.0	107.2	A	105	75-125	
Vanadium	13.33	A	500.0	544.4	A	106	75-125	
Zinc	ND	A	500.0	535.2	A	107	75-125	
Boron	97.96	A	1000	1199	A	110	75-125	
Tin	ND	A	1000	1082	A	108	75-125	
Titanium	ND	A	1000	1106	A	111	75-125	

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	1626250	1620915	-0.33

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 7470A

Type : MSS
Inst : MET14
Seqnum : 846219917010
File : 114029
IDF : 1.0
Lab ID : 187103-001
Matrix : WET Leachate
Batch : 114029
Time : 01-JUN-2006 17:39
Cal : 846219662002
Caltype: WATER
Units : ug/L

Type : PDS
Inst : MET14
Seqnum : 846219917016
File : 114029
IDF : 1.0
Lab ID : QC342402
Matrix : WET Leachate
Batch : 114029
Time : 01-JUN-2006 17:54
Cal : 846219662002
Caltype: WATER

MSS: 10.00 mL --> 50.0 ml = 5.0 ml/ml PDF
PDS: 10.00 mL --> 50.0 ml = 5.0 ml/ml PDF

PDS standards: S3594 (20X)

Analyte	MSS	Spiked	PDS	%Rec	Limits	Flags
Mercury	ND	5.000	5.660	113	75-125	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET08
Calnum : 86221130001
Units : ug/L

Date : 02-JUN-2006 13:30
X Axis : R

Reviewer: ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	060206br.txt	86221130002	CRIM08	02-JUN-2006 13:34	S3580
L2	060206br.txt	86221130003	CS100	02-JUN-2006 13:38	S3582
L3	060206br.txt	86221130004	CS1K	02-JUN-2006 13:41	S3581
L4	060206br.txt	86221130005	CS10K	02-JUN-2006 13:43	S3583
L5	060206br.txt	86221130006	CS100K	02-JUN-2006 13:46	S3584

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	28.411	42.435	40.505	41.985		LOR0	0.00000	0.02383		38.334	1.000	0.995	
Arsenic	A	22.015	24.905	24.570	24.898		LOR0	0.00000	0.04017		24.097	1.000	0.995	
Barium	A	523.50	516.86	517.97	501.29		LOR0	0.00000	0.00199		514.90	1.000	0.995	
Beryllium	A	3968.0	3957.1	3945.4			LOR0	0.00000	2.53E-4		3956.8	1.000	0.995	
Boron	A	187.37		205.19	211.28		LOR0	0.00000	0.00473		201.28	1.000	0.995	
Cadmium	A	378.70	388.30	394.02	373.47		LOR0	0.00000	0.00268		383.62	1.000	0.995	
Chromium	A	104.90	103.93	103.26	101.00		LOR0	0.00000	0.00990		103.27	1.000	0.995	
Cobalt	A	127.41	132.16	136.66	133.55		LOR0	0.00000	0.00749		132.44	1.000	0.995	283
Copper	A	714.28	734.43	769.03	756.36		LOR0	0.00000	0.00132		743.53	1.000	0.995	
Lead	A	40.502	59.509	60.715	58.826		LOR0	0.00000	0.01699		54.888	1.000	0.995	
Manganese	A	1082.3	1078.8	1088.1	1031.7		LOR0	0.00000	9.69E-4		1070.2	1.000	0.995	
Molybdenum	A	36.405	48.403	48.506	48.843		LOR0	0.00000	0.02048		45.539	1.000	0.995	
Nickel	A	65.194	68.024	69.964	68.237		LOR0	0.00000	0.01465		67.855	1.000	0.995	
Selenium	A	23.315	25.539	25.549	25.922		LOR0	0.00000	0.03858		25.081	1.000	0.995	
Silver	A	418.74	485.06	479.75	490.39		LOR0	0.00000	0.00205		468.48	1.000	0.995	
Thallium	A	15.328	20.691	21.543	20.974		LOR0	0.00000	0.04767		19.634	1.000	0.995	
Tin	A	24.365	24.798	25.633	25.822		LOR0	0.00000	0.03873		25.154	1.000	0.995	
Titanium	A	1230.1	1271.2	1263.2	1196.4		LOR0	0.00000	8.35E-4		1240.2	1.000	0.995	
Vanadium	A	161.41	153.17	156.10	156.61		LOR0	0.00000	0.00639		156.83	1.000	0.995	
Zinc	A	141.08	152.31	143.77	139.96		LOR0	0.00000	0.00714		144.28	1.000	0.995	
Aluminum	R	1.5372		1.5417	1.5263	1.5422	LOR0	0.00000	0.64851		1.5369	1.000	0.995	
Calcium	R	13.703		14.306	13.645	13.093	LOR0	0.00000	0.07634		13.687	1.000	0.995	
Iron	R	9.4885		9.6487	9.6314	8.9801	LOR0	0.00000	0.11128		9.4372	1.000	0.995	
Magnesium	R	2.6536		2.6531	2.6478	2.4916	LOR0	0.00000	0.40109		2.6115	1.000	0.995	
Potassium	R	6.9283		6.6716	6.6531	6.4941	LOR0	0.00000	0.15395		6.6868	1.000	0.995	
Sodium	R	9.9814		10.688	10.278	9.7854	LOR0	0.00000	0.10214		10.183	1.000	0.995	

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/2/2006 1:30:15 PM
Data Type: Reprocessed on 6/2/2006 2:06:30 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	404.6	267.05	66.01%	[0.00]	ug/L
Al 308.215 R	107.0	6.92	6.47%	[0.00]	ug/L
As 188.979	-73.5	21.04	28.61%	[0.00]	ug/L
B 249.677	3936.8	344.20	8.74%	[0.00]	ug/L
Ba 233.527	-0.0	12.17	>999.9%	[0.00]	ug/L
Be 313.107	444.0	103.46	23.30%	[0.00]	ug/L
Ca 315.887 R	253.9	4.04	1.59%	[0.00]	ug/L
Cd 214.440	41.3	2.21	5.35%	[0.00]	ug/L
Co 228.616	-209.1	7.68	3.67%	[0.00]	ug/L
Cr 267.716	-132.2	20.54	15.53%	[0.00]	ug/L
Cu 324.752	593.3	179.51	30.25%	[0.00]	ug/L
Fe 238.204 R	85.6	1.20	1.40%	[0.00]	ug/L
K 766.490 R	-5674.7	192.73	3.40%	[0.00]	ug/L
Mg 279.077 R	-73.3	3.86	5.26%	[0.00]	ug/L
Mn 257.610	371.9	6.22	1.67%	[0.00]	ug/L
Mo 202.031	82.1	9.59	11.68%	[0.00]	ug/L
Na 589.592 R	858.2	45.71	5.33%	[0.00]	ug/L
Ni 231.604	334.2	16.28	4.87%	[0.00]	ug/L
Pb 220.353	69.3	19.64	28.36%	[0.00]	ug/L
Sb 206.836	475.8	33.64	7.07%	[0.00]	ug/L
Se 196.026	-70.8	30.31	42.83%	[0.00]	ug/L
Ti 334.940 R	502.5	74.83	14.89%	[0.00]	ug/L
Tl 190.801	141.9	5.28	3.72%	[0.00]	ug/L
V 292.402	-1479.6	39.41	2.66%	[0.00]	ug/L
Zn 206.200	-962.2	5.45	0.57%	[0.00]	ug/L
Sn 189.927	205.4	19.63	9.56%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 6/2/2006 1:34:16 PM
Data Type: Reprocessed on 6/2/2006 2:06:33 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2075906.3	13613.98	0.66%	100.0	%
Y	328649.1	3684.26	1.12%	100.0	%
Ag 328.068†	2093.7	81.14	3.88%	[5.0]	ug/L
Al 308.215 R†	153.7	4.61	3.00%	[100]	ug/L
As 188.979†	110.1	12.10	10.99%	[5.0]	ug/L
B 249.677†	18737.0	135.45	0.72%	[100]	ug/L
Ba 233.527†	2617.5	21.38	0.82%	[5.0]	ug/L
Be 313.107†	7936.0	67.62	0.85%	[2.0]	ug/L
Ca 315.887 R†	2740.7	13.38	0.49%	[200]	ug/L
Cd 214.440†	1893.5	6.46	0.34%	[5.0]	ug/L
Co 228.616†	637.0	9.66	1.52%	[5.0]	ug/L
Cr 267.716†	524.5	12.52	2.39%	[5.0]	ug/L
Cu 324.752†	3571.4	211.77	5.93%	[5.0]	ug/L
Fe 238.204 R†	948.9	8.86	0.93%	[100]	ug/L
K 766.490 R†	3464.2	241.27	6.96%	[500]	ug/L
Mg 279.077 R†	530.7	9.06	1.71%	[200]	ug/L
Mn 257.610†	5411.3	38.28	0.71%	[5.0]	ug/L
Mo 202.031†	182.0	3.78	2.07%	[5.0]	ug/L
Na 589.592 R†	4990.7	26.47	0.53%	[500]	ug/L
Ni 231.604†	326.0	6.45	1.98%	[5.0]	ug/L
Pb 220.353†	121.5	5.88	4.84%	[3.0]	ug/L
Sb 206.836†	142.1	24.16	17.01%	[5.0]	ug/L
Se 196.026†	116.6	11.02	9.45%	[5.0]	ug/L
Ti 334.940 R†	12301.3	128.34	1.04%	[10]	ug/L
Tl 190.801†	76.6	23.15	30.21%	[5.0]	ug/L
V 292.402†	807.1	16.70	2.07%	[5.0]	ug/L
Zn 206.200†	2821.7	29.23	1.04%	[20]	ug/L
Sn 189.927†	974.6	15.62	1.60%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/2/2006 1:38:35 PM
Data Type: Reprocessed on 6/2/2006 2:06:34 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	154.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2120509.0	44731.37	2.11%	102.1	%
Y	335686.4	5375.56	1.60%	102.1	%
Ag 328.068†	48505.8	307.66	0.63%	[100]	ug/L
As 188.979†	2490.5	41.50	1.67%	[100]	ug/L
Ba 233.527†	51685.6	325.47	0.63%	[100]	ug/L
Be 313.107†	395708.7	2587.60	0.65%	[100]	ug/L
Cd 214.440†	38830.1	267.31	0.69%	[100]	ug/L
Co 228.616†	13215.7	258.48	1.96%	[100]	ug/L
Cr 267.716†	10392.5	189.68	1.83%	[100]	ug/L
Cu 324.752†	73443.5	314.12	0.43%	[100]	ug/L
Mn 257.610†	107877.2	702.70	0.65%	[100]	ug/L
Mo 202.031†	4840.3	80.66	1.67%	[100]	ug/L
Ni 231.604†	6802.4	161.76	2.38%	[100]	ug/L
Pb 220.353†	5950.9	103.60	1.74%	[100]	ug/L
Sb 206.836†	4243.5	140.48	3.31%	[100]	ug/L
Se 196.026†	2553.9	54.83	2.15%	[100]	ug/L
Ti 334.940 R†	127116.5	608.46	0.48%	[100]	ug/L
Tl 190.801†	2069.1	20.95	1.01%	[100]	ug/L
V 292.402†	15317.4	243.85	1.59%	[100]	ug/L
Zn 206.200†	15231.5	262.07	1.72%	[100]	ug/L
Sn 189.927†	2479.8	55.94	2.26%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/2/2006 1:41:40 PM
Data Type: Reprocessed on 6/2/2006 2:06:34 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2132261.8	24704.98	1.16%	102.7	%
Y	334607.6	4175.10	1.25%	101.8	%
Ag 328.068†	479747.2	3420.25	0.71%	[1000]	ug/L
Al 308.215 R†	1541.7	10.64	0.69%	[1000]	ug/L
As 188.979†	24570.0	386.58	1.57%	[1000]	ug/L
B 249.677†	205186.3	1965.62	0.96%	[1000]	ug/L
Ba 233.527†	517970.1	3433.05	0.66%	[1000]	ug/L
Be 313.107†	3945422.1	17222.04	0.44%	[1000]	ug/L
Ca 315.887 R†	14306.1	192.45	1.35%	[1000]	ug/L
Cd 214.440†	394015.2	3101.56	0.79%	[1000]	ug/L
Co 228.616†	136661.7	573.92	0.42%	[1000]	ug/L
Cr 267.716†	103259.9	716.60	0.69%	[1000]	ug/L
Cu 324.752†	769033.9	6242.61	0.81%	[1000]	ug/L
Fe 238.204 R†	9648.7	159.41	1.65%	[1000]	ug/L
K 766.490 R†	6671.6	239.26	3.59%	[1000]	ug/L
Mg 279.077 R†	2653.1	34.87	1.31%	[1000]	ug/L
Mn 257.610†	1088134.8	7686.78	0.71%	[1000]	ug/L
Mo 202.031†	48505.5	181.70	0.37%	[1000]	ug/L
Na 589.592 R†	10688.0	37.25	0.35%	[1000]	ug/L
Ni 231.604†	69964.2	452.13	0.65%	[1000]	ug/L
Pb 220.353†	60714.9	395.06	0.65%	[1000]	ug/L
Sb 206.836†	40505.4	47.98	0.12%	[1000]	ug/L
Se 196.026†	25548.7	181.36	0.71%	[1000]	ug/L
Ti 334.940 R†	1263179.6	10239.21	0.81%	[1000]	ug/L
Tl 190.801†	21543.3	190.76	0.89%	[1000]	ug/L
V 292.402†	156102.1	958.06	0.61%	[1000]	ug/L
Zn 206.200†	143768.9	1348.65	0.94%	[1000]	ug/L
Sn 189.927†	25632.6	174.87	0.68%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/2/2006 1:43:54 PM
Data Type: Reprocessed on 6/2/2006 2:06:35 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2036010.2	20279.55	1.00%	98.08	%
Y	318530.4	1352.02	0.42%	96.92	%
Ag 328.068†	980778.8	2738.19	0.28%	[2000]	ug/L
Al 308.215 R†	15262.9	106.11	0.70%	[10000]	ug/L
As 188.979†	248984.2	569.18	0.23%	[10000]	ug/L
B 249.677†	2112793.2	8392.07	0.40%	[10000]	ug/L
Ba 233.527†	5012922.4	19493.63	0.39%	[10000]	ug/L
Ca 315.887 R†	136454.8	779.32	0.57%	[10000]	ug/L
Cd 214.440†	3734671.0	16973.60	0.45%	[10000]	ug/L
Co 228.616†	1335496.0	5171.37	0.39%	[10000]	ug/L
Cr 267.716†	1010019.2	5206.52	0.52%	[10000]	ug/L
Cu 324.752†	7563631.6	40534.70	0.54%	[10000]	ug/L
Fe 238.204 R†	96314.1	756.48	0.79%	[10000]	ug/L
K 766.490 R†	66531.1	584.13	0.88%	[10000]	ug/L
Mg 279.077 R†	26478.3	259.67	0.98%	[10000]	ug/L
Mn 257.610†	10317108.5	183462.09	1.78%	[10000]	ug/L
Mo 202.031†	488425.2	1196.00	0.24%	[10000]	ug/L
Na 589.592 R†	102783.0	627.20	0.61%	[10000]	ug/L
Ni 231.604†	682367.4	2069.37	0.30%	[10000]	ug/L
Pb 220.353†	588260.7	2768.61	0.47%	[10000]	ug/L
Sb 206.836†	419850.4	124.42	0.03%	[10000]	ug/L
Se 196.026†	259222.3	223.28	0.09%	[10000]	ug/L
Ti 334.940 R†	11964374.1	218353.12	1.83%	[10000]	ug/L
Tl 190.801†	209739.8	569.89	0.27%	[10000]	ug/L
V 292.402†	1566114.3	7866.57	0.50%	[10000]	ug/L
Zn 206.200†	1399642.4	6379.27	0.46%	[10000]	ug/L
Sn 189.927†	258217.8	979.78	0.38%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 6/2/2006 1:46:46 PM
Data Type: Reprocessed on 6/2/2006 2:06:36 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	1898353.5	18740.18	0.99%	91.45	%
Y	308599.0	6357.09	2.06%	93.90	%
Al 308.215 R†	154215.0	543.31	0.35%	[100000]	ug/L
Ca 315.887 R†	1309284.3	6000.46	0.46%	[100000]	ug/L
Fe 238.204 R†	898005.8	1952.60	0.22%	[100000]	ug/L
K 766.490 R†	649408.4	3960.00	0.61%	[100000]	ug/L
Mg 279.077 R†	249162.0	632.21	0.25%	[100000]	ug/L
Na 589.592 R†	978539.0	5423.61	0.55%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	488.3	0.00000	0.999962	
Al 308.215 R	4	Lin Thru 0	0.0	1.542	0.00000	0.999999	
As 188.979	4	Lin Thru 0	0.0	24.90	0.00000	0.999999	
B 249.677	3	Lin Thru 0	0.0	211.2	0.00000	0.999995	
Ba 233.527	4	Lin Thru 0	0.0	501.5	0.00000	0.999995	
Be 313.107	3	Lin Thru 0	0.0	3946	0.00000	1.000000	
Ca 315.887 R	4	Lin Thru 0	0.0	13.10	0.00000	0.999991	
Cd 214.440	4	Lin Thru 0	0.0	373.7	0.00000	0.999985	
Co 228.616	4	Lin Thru 0	0.0	133.6	0.00000	0.999997	
Cr 267.716	4	Lin Thru 0	0.0	101.0	0.00000	0.999998	
Cu 324.752	4	Lin Thru 0	0.0	756.5	0.00000	0.999999	
Fe 238.204 R	4	Lin Thru 0	0.0	8.987	0.00000	0.999974	
K 766.490 R	4	Lin Thru 0	0.0	6.496	0.00000	0.999997	
Mg 279.077 R	4	Lin Thru 0	0.0	2.493	0.00000	0.999981	
Mn 257.610	4	Lin Thru 0	0.0	1032	0.00000	0.999985	
Mo 202.031	4	Lin Thru 0	0.0	48.84	0.00000	1.000000	
Na 589.592 R	4	Lin Thru 0	0.0	9.790	0.00000	0.999987	
Ni 231.604	4	Lin Thru 0	0.0	68.25	0.00000	0.999997	
Pb 220.353	4	Lin Thru 0	0.0	58.84	0.00000	0.999995	
Sb 206.836	4	Lin Thru 0	0.0	41.97	0.00000	0.999994	
Se 196.026	4	Lin Thru 0	0.0	25.92	0.00000	0.999999	
Ti 334.940 R	4	Lin Thru 0	0.0	1197	0.00000	0.999985	
Tl 190.801	4	Lin Thru 0	0.0	20.98	0.00000	0.999996	
V 292.402	4	Lin Thru 0	0.0	156.6	0.00000	1.000000	
Zn 206.200	4	Lin Thru 0	0.0	140.0	0.00000	0.999996	
Sn 189.927	4	Lin Thru 0	0.0	25.82	0.00000	1.000000	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86221130007 File : 060206br.txt Time : 02-JUN-2006 13:49
Cal : 86221130001 Caldate: 02-JUN-2006
Standards: S3541

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	38.334	46.109	5000	5493	ug/L	10	10	
Arsenic	A	24.097	26.037	5000	5229	ug/L	5	10	
Barium	A	514.90	512.30	5000	5108	ug/L	2	10	
Beryllium	A	3956.8	4020.9	500.0	509.6	ug/L	2	10	
Boron	A	201.28	214.09	5000	5068	ug/L	1	10	
Cadmium	A	383.62	381.15	5000	5100	ug/L	2	10	
Chromium	A	103.27	101.41	5000	5019	ug/L	0	10	
Cobalt	A	132.44	131.93	5000	4928	ug/L	-1	10	
Copper	A	743.53	742.09	5000	4905	ug/L	-2	10	
Lead	A	54.888	58.447	5000	4966	ug/L	-1	10	
Manganese	A	1070.2	1029.3	5000	4985	ug/L	0	10	
Molybdenum	A	45.539	50.841	5000	5205	ug/L	4	10	
Nickel	A	67.855	68.325	5000	5005	ug/L	0	10	
Selenium	A	25.081	26.047	5000	5025	ug/L	0	10	
Silver	A	468.48	478.46	1000	979.9	ug/L	-2	10	
Thallium	A	19.634	20.952	5000	4993	ug/L	0	10	
Tin	A	25.154	25.952	5000	5026	ug/L	1	10	
Titanium	A	1240.2	1234.4	5000	5156	ug/L	3	10	
Vanadium	A	156.83	157.42	5000	5026	ug/L	1	10	
Zinc	A	144.28	140.06	5000	5002	ug/L	0	10	
Aluminum	R	1.5369	1.5362	20000	19920	ug/L	0	10	
Calcium	R	13.687	13.644	20000	20830	ug/L	4	10	
Iron	R	9.4372	9.3924	20000	20900	ug/L	5	10	
Magnesium	R	2.6115	2.6249	20000	21060	ug/L	5	10	
Potassium	R	6.6868	6.5249	20000	20090	ug/L	0	10	
Sodium	R	10.183	10.137	20000	20710	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2075906	2006399	-3.35

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86221130021 File : 060206br.txt Time : 02-JUN-2006 14:45
Cal : 86221130001 Caldate: 02-JUN-2006
Standards: S3543

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	38.334	46.205	5000	5504	ug/L	10	10	
Arsenic	A	24.097	26.173	5000	5257	ug/L	5	10	
Barium	A	514.90	515.80	5000	5143	ug/L	3	10	
Beryllium	A	3956.8	4059.3	500.0	514.4	ug/L	3	10	
Boron	A	201.28	221.21	5000	5237	ug/L	5	10	
Cadmium	A	383.62	386.47	5000	5171	ug/L	3	10	
Chromium	A	103.27	102.90	5000	5093	ug/L	2	10	
Cobalt	A	132.44	133.92	5000	5002	ug/L	0	10	
Copper	A	743.53	740.83	5000	4896	ug/L	-2	10	
Lead	A	54.888	58.507	5000	4971	ug/L	-1	10	
Manganese	A	1070.2	1026.4	5000	4972	ug/L	-1	10	
Molybdenum	A	45.539	51.014	5000	5223	ug/L	4	10	
Nickel	A	67.855	68.508	5000	5019	ug/L	0	10	
Selenium	A	25.081	26.244	5000	5063	ug/L	1	10	
Silver	A	468.48	476.93	1000	976.8	ug/L	-2	10	
Thallium	A	19.634	20.945	5000	4992	ug/L	0	10	
Tin	A	25.154	26.156	5000	5065	ug/L	1	10	
Titanium	A	1240.2	1242.9	5000	5191	ug/L	4	10	
Vanadium	A	156.83	159.40	5000	5089	ug/L	2	10	
Zinc	A	144.28	143.15	5000	5112	ug/L	2	10	
Aluminum	R	1.5369	1.5004	20000	19460	ug/L	-3	10	
Calcium	R	13.687	13.377	20000	20420	ug/L	2	10	
Iron	R	9.4372	9.1267	20000	20310	ug/L	2	10	
Magnesium	R	2.6115	2.5961	20000	20830	ug/L	4	10	
Potassium	R	6.6868	6.5725	20000	20240	ug/L	1	10	
Sodium	R	10.183	9.8666	20000	20160	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2075906	2035918	-1.93

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 86221130035 File : 060206br.txt
Cal : 86221130001 Caldate: 02-JUN-2006
Standards: S3543

IDF : 1.0
Time : 02-JUN-2006 15:40

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	38.334	45.905	5000	5469	ug/L	9	10	
Arsenic	A	24.097	26.076	5000	5237	ug/L	5	10	
Barium	A	514.90	513.46	5000	5120	ug/L	2	10	
Beryllium	A	3956.8	4043.3	500.0	512.4	ug/L	2	10	
Boron	A	201.28	216.13	5000	5116	ug/L	2	10	
Cadmium	A	383.62	384.77	5000	5149	ug/L	3	10	
Chromium	A	103.27	102.42	5000	5069	ug/L	1	10	
Cobalt	A	132.44	133.37	5000	4982	ug/L	0	10	
Copper	A	743.53	736.32	5000	4867	ug/L	-3	10	
Lead	A	54.888	57.901	5000	4920	ug/L	-2	10	
Manganese	A	1070.2	1030.0	5000	4989	ug/L	0	10	
Molybdenum	A	45.539	50.122	5000	5131	ug/L	3	10	
Nickel	A	67.855	67.895	5000	4974	ug/L	-1	10	
Selenium	A	25.081	25.960	5000	5008	ug/L	0	10	
Silver	A	468.48	472.79	1000	968.3	ug/L	-3	10	
Thallium	A	19.634	20.840	5000	4967	ug/L	-1	10	
Tin	A	25.154	25.871	5000	5010	ug/L	0	10	
Titanium	A	1240.2	1243.0	5000	5192	ug/L	4	10	
Vanadium	A	156.83	158.53	5000	5062	ug/L	1	10	
Zinc	A	144.28	142.74	5000	5098	ug/L	2	10	
Aluminum	R	1.5369	1.5220	20000	19740	ug/L	-1	10	
Calcium	R	13.687	13.548	20000	20690	ug/L	3	10	
Iron	R	9.4372	9.3250	20000	20750	ug/L	4	10	
Magnesium	R	2.6115	2.6219	20000	21030	ug/L	5	10	
Potassium	R	6.6868	6.5267	20000	20100	ug/L	0	10	
Sodium	R	10.183	9.9988	20000	20430	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2075906	2026067	-2.40

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 86221130046 File : 060206br.txt
Cal : 86221130001 Caldate: 02-JUN-2006
Standards: S3543

IDF : 1.0
Time : 02-JUN-2006 16:17

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	38.334	45.279	5000	5394	ug/L	8	10	
Arsenic	A	24.097	25.654	5000	5152	ug/L	3	10	
Barium	A	514.90	510.95	5000	5095	ug/L	2	10	
Beryllium	A	3956.8	4011.1	500.0	508.3	ug/L	2	10	
Boron	A	201.28	214.52	5000	5078	ug/L	2	10	
Cadmium	A	383.62	382.38	5000	5116	ug/L	2	10	
Chromium	A	103.27	101.69	5000	5033	ug/L	1	10	
Cobalt	A	132.44	132.66	5000	4955	ug/L	-1	10	
Copper	A	743.53	733.11	5000	4845	ug/L	-3	10	
Lead	A	54.888	57.214	5000	4861	ug/L	-3	10	
Manganese	A	1070.2	1017.1	5000	4926	ug/L	-1	10	
Molybdenum	A	45.539	49.621	5000	5080	ug/L	2	10	
Nickel	A	67.855	67.105	5000	4916	ug/L	-2	10	
Selenium	A	25.081	25.649	5000	4948	ug/L	-1	10	
Silver	A	468.48	467.72	1000	957.9	ug/L	-4	10	
Thallium	A	19.634	20.623	5000	4915	ug/L	-2	10	
Tin	A	25.154	25.514	5000	4941	ug/L	-1	10	
Titanium	A	1240.2	1228.7	5000	5132	ug/L	3	10	
Vanadium	A	156.83	157.38	5000	5025	ug/L	0	10	
Zinc	A	144.28	141.62	5000	5058	ug/L	1	10	
Aluminum	R	1.5369	1.5000	20000	19460	ug/L	-3	10	
Calcium	R	13.687	13.330	20000	20350	ug/L	2	10	
Iron	R	9.4372	9.1173	20000	20290	ug/L	1	10	
Magnesium	R	2.6115	2.5764	20000	20670	ug/L	3	10	
Potassium	R	6.6868	6.5243	20000	20090	ug/L	0	10	
Sodium	R	10.183	9.8452	20000	20110	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2075906	2048644	-1.31

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86221130059 File : 060206br.txt Time : 02-JUN-2006 17:08
Cal : 86221130001 Caldate: 02-JUN-2006
Standards: S3543

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	38.334	45.015	5000	5363	ug/L	7	10	
Arsenic	A	24.097	25.834	5000	5189	ug/L	4	10	
Barium	A	514.90	511.24	5000	5097	ug/L	2	10	
Beryllium	A	3956.8	4033.3	500.0	511.1	ug/L	2	10	
Boron	A	201.28	214.73	5000	5083	ug/L	2	10	
Cadmium	A	383.62	385.41	5000	5157	ug/L	3	10	
Chromium	A	103.27	101.62	5000	5029	ug/L	1	10	
Cobalt	A	132.44	132.13	5000	4935	ug/L	-1	10	
Copper	A	743.53	739.19	5000	4886	ug/L	-2	10	
Lead	A	54.888	58.019	5000	4930	ug/L	-1	10	
Manganese	A	1070.2	1035.1	5000	5014	ug/L	0	10	
Molybdenum	A	45.539	50.213	5000	5141	ug/L	3	10	
Nickel	A	67.855	67.518	5000	4946	ug/L	-1	10	
Selenium	A	25.081	25.967	5000	5009	ug/L	0	10	
Silver	A	468.48	470.63	1000	963.9	ug/L	-4	10	
Thallium	A	19.634	21.033	5000	5013	ug/L	0	10	
Tin	A	25.154	25.757	5000	4988	ug/L	0	10	
Titanium	A	1240.2	1228.1	5000	5130	ug/L	3	10	
Vanadium	A	156.83	157.67	5000	5034	ug/L	1	10	
Zinc	A	144.28	141.83	5000	5065	ug/L	1	10	
Aluminum	R	1.5369	1.5213	20000	19730	ug/L	-1	10	
Calcium	R	13.687	13.391	20000	20450	ug/L	2	10	
Iron	R	9.4372	9.2274	20000	20540	ug/L	3	10	
Magnesium	R	2.6115	2.5992	20000	20850	ug/L	4	10	
Potassium	R	6.6868	6.6159	20000	20370	ug/L	2	10	
Sodium	R	10.183	9.9157	20000	20260	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2075906	2024414	-2.48

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 86221130073 File : 060206br.txt IDF : 1.0
Cal : 86221130001 Caldate: 02-JUN-2006 Time : 02-JUN-2006 17:58
Standards: S3543

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	38.334	45.625	5000	5435	ug/L	9	10	
Arsenic	A	24.097	25.889	5000	5200	ug/L	4	10	
Barium	A	514.90	515.00	5000	5135	ug/L	3	10	
Beryllium	A	3956.8	4038.1	500.0	511.7	ug/L	2	10	
Boron	A	201.28	216.16	5000	5117	ug/L	2	10	
Cadmium	A	383.62	383.62	5000	5133	ug/L	3	10	
Chromium	A	103.27	101.71	5000	5034	ug/L	1	10	
Cobalt	A	132.44	133.30	5000	4979	ug/L	0	10	
Copper	A	743.53	744.89	5000	4923	ug/L	-2	10	
Lead	A	54.888	58.480	5000	4969	ug/L	-1	10	
Manganese	A	1070.2	1042.3	5000	5049	ug/L	1	10	
Molybdenum	A	45.539	50.723	5000	5193	ug/L	4	10	
Nickel	A	67.855	68.212	5000	4997	ug/L	0	10	
Selenium	A	25.081	25.955	5000	5007	ug/L	0	10	
Silver	A	468.48	477.86	1000	978.7	ug/L	-2	10	
Thallium	A	19.634	21.198	5000	5052	ug/L	1	10	
Tin	A	25.154	26.014	5000	5038	ug/L	1	10	
Titanium	A	1240.2	1253.2	5000	5234	ug/L	5	10	
Vanadium	A	156.83	158.98	5000	5076	ug/L	2	10	
Zinc	A	144.28	141.90	5000	5068	ug/L	1	10	
Aluminum	R	1.5369	1.5026	20000	19490	ug/L	-3	10	
Calcium	R	13.687	13.202	20000	20160	ug/L	1	10	
Iron	R	9.4372	9.1064	20000	20270	ug/L	1	10	
Magnesium	R	2.6115	2.5569	20000	20510	ug/L	3	10	
Potassium	R	6.6868	6.5364	20000	20130	ug/L	1	10	
Sodium	R	10.183	9.8296	20000	20080	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2075906	1958560	-5.65

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 86221130087 File : 060206br.txt
Cal : 86221130001 Caldate: 02-JUN-2006
Standards: S3543

IDF : 1.0
Time : 02-JUN-2006 18:48

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	38.334	44.397	5000	5289	ug/L	6	10	
Arsenic	A	24.097	25.412	5000	5104	ug/L	2	10	
Barium	A	514.90	510.57	5000	5091	ug/L	2	10	
Beryllium	A	3956.8	4020.0	500.0	509.4	ug/L	2	10	
Boron	A	201.28	215.53	5000	5102	ug/L	2	10	
Cadmium	A	383.62	383.71	5000	5134	ug/L	3	10	
Chromium	A	103.27	101.76	5000	5036	ug/L	1	10	
Cobalt	A	132.44	132.65	5000	4955	ug/L	-1	10	
Copper	A	743.53	735.68	5000	4862	ug/L	-3	10	
Lead	A	54.888	57.040	5000	4847	ug/L	-3	10	
Manganese	A	1070.2	1029.4	5000	4986	ug/L	0	10	
Molybdenum	A	45.539	49.357	5000	5053	ug/L	1	10	
Nickel	A	67.855	66.629	5000	4881	ug/L	-2	10	
Selenium	A	25.081	25.430	5000	4906	ug/L	-2	10	
Silver	A	468.48	465.20	1000	952.8	ug/L	-5	10	
Thallium	A	19.634	20.523	5000	4891	ug/L	-2	10	
Tin	A	25.154	25.384	5000	4916	ug/L	-2	10	
Titanium	A	1240.2	1234.2	5000	5155	ug/L	3	10	
Vanadium	A	156.83	157.83	5000	5039	ug/L	1	10	
Zinc	A	144.28	142.09	5000	5074	ug/L	1	10	
Aluminum	R	1.5369	1.4569	20000	18900	ug/L	-6	10	
Calcium	R	13.687	12.765	20000	19490	ug/L	-3	10	
Iron	R	9.4372	8.7919	20000	19570	ug/L	-2	10	
Magnesium	R	2.6115	2.4787	20000	19880	ug/L	-1	10	
Potassium	R	6.6868	6.4959	20000	20000	ug/L	0	10	
Sodium	R	10.183	9.5335	20000	19480	ug/L	-3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2075906	1996609	-3.82

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 86221130008 File : 060206br.txt
Cal : 86221130001 Caldate: 02-JUN-2006

IDF : 1.0
Time : 02-JUN-2006 13:52

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	[2.813]	5.000	1.047	ug/L	!ib
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	[0.9127]	5.000	0.7122	ug/L	!ib
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[2.098]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	[2.228]	5.000	1.575	ug/L	!ib
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	[1.558]	20.00	1.533	ug/L	!ib
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2075906	2090941	0.72

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86221130023 File : 060206br.txt Time : 02-JUN-2006 14:55
Cal : 86221130001 Caldate: 02-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	ND	5.000	0.4303	ug/L	
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2075906	2102767	1.29

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 86221130037 File : 060206br.txt IDF : 1.0
Cal : 86221130001 Caldate: 02-JUN-2006 Time : 02-JUN-2006 15:46

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	ND	5.000	0.4303	ug/L	
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2075906	2116095	1.94

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86221130048 File : 060206br.txt Time : 02-JUN-2006 16:23
Cal : 86221130001 Caldate: 02-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	ND	5.000	0.4303	ug/L	
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2075906	2102398	1.28

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86221130061 File : 060206br.txt Time : 02-JUN-2006 17:14
Cal : 86221130001 Caldate: 02-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	ND	5.000	0.4303	ug/L	
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2075906	2088603	0.61

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 86221130075 File : 060206br.txt IDF : 1.0
Cal : 86221130001 Caldate: 02-JUN-2006 Time : 02-JUN-2006 18:04

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	ND	5.000	0.4303	ug/L	
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2075906	2111835	1.73

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86221130089 File : 060206br.txt Time : 02-JUN-2006 18:54
Cal : 86221130001 Caldate: 02-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	ND	5.000	0.4303	ug/L	
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2075906	2097409	1.04

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET08
Seqnum : 86221130009 File : 060206br.txt IDF : 1.0
Cal : 86221130001 Caldate: 02-JUN-2006 Time : 02-JUN-2006 13:56
Standards: S3254

Analyte	Ch	Quant	RL	Units	Flags
Antimony	A	[4.416]	5.000	ug/L	
Arsenic	A	[1.646]	5.000	ug/L	
Barium	A	[0.9522]	5.000	ug/L	
Beryllium	A	[0.1124]	2.000	ug/L	
Boron	A	[16.59]	100.0	ug/L	
Cadmium	A	[1.348]	5.000	ug/L	
Cobalt	A	[-0.8902]	5.000	ug/L	
Lead	A	[-2.944]	3.000	ug/L	
Molybdenum	A	[-0.9372]	5.000	ug/L	
Selenium	A	[-4.751]	5.000	ug/L	
Silver	A	[1.053]	5.000	ug/L	
Thallium	A	[-4.914]	5.000	ug/L	
Tin	A	[-5.284]	40.00	ug/L	
Zinc	A	[-3.140]	20.00	ug/L	
Potassium	R	[32.39]	500.0	ug/L	
Sodium	R	[8.672]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	18830	ug/L	94
Copper	A	20000	20490	ug/L	102
Manganese	A	20000	17990	ug/L	90
Nickel	A	20000	17620	ug/L	88
Titanium	A	20000	16960	ug/L	85
Vanadium	A	20000	20350	ug/L	102
Aluminum	R	500000	499400	ug/L	100
Calcium	R	500000	490700	ug/L	98
Iron	R	200000	189700	ug/L	95
Magnesium	R	500000	497600	ug/L	100

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2075906	1765092	-14.97

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86221130010 File : 060206br.txt Time : 02-JUN-2006 14:11
Cal : 86221130001 Caldate: 02-JUN-2006
Standards: S3527

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	570.9	ug/L	14	20	
Arsenic	A	500.0	541.8	ug/L	8	20	
Barium	A	500.0	542.1	ug/L	8	20	
Beryllium	A	500.0	537.9	ug/L	8	20	
Cadmium	A	1000	1016	ug/L	2	20	
Chromium	A	500.0	524.3	ug/L	5	20	
Cobalt	A	500.0	463.5	ug/L	-7	20	
Copper	A	500.0	513.0	ug/L	3	20	
Lead	A	1000	945.1	ug/L	-5	20	
Manganese	A	500.0	523.0	ug/L	5	20	
Molybdenum	A	500.0	522.6	ug/L	5	20	
Nickel	A	1000	934.7	ug/L	-7	20	
Selenium	A	500.0	515.2	ug/L	3	20	
Silver	A	1000	1096	ug/L	10	20	
Thallium	A	500.0	454.4	ug/L	-9	20	
Titanium	A	20000	20000	ug/L	0		
Vanadium	A	500.0	559.0	ug/L	12	20	
Zinc	A	1000	962.7	ug/L	-4	20	
Aluminum	R	500000	504000	ug/L	1		
Calcium	R	500000	489500	ug/L	-2		
Iron	R	200000	190700	ug/L	-5		
Magnesium	R	500000	497600	ug/L	0		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2075906	1752708	-15.57

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86221130044 File : 060206br.txt Time : 02-JUN-2006 16:10
Cal : 86221130001 Caldate: 02-JUN-2006
Standards: S3527

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	550.4	ug/L	10	20	
Arsenic	A	500.0	539.9	ug/L	8	20	
Barium	A	500.0	536.0	ug/L	7	20	
Beryllium	A	500.0	532.8	ug/L	7	20	
Cadmium	A	1000	1010	ug/L	1	20	
Chromium	A	500.0	517.2	ug/L	3	20	
Cobalt	A	500.0	457.9	ug/L	-8	20	
Copper	A	500.0	504.6	ug/L	1	20	
Lead	A	1000	939.8	ug/L	-6	20	
Manganese	A	500.0	518.4	ug/L	4	20	
Molybdenum	A	500.0	520.8	ug/L	4	20	
Nickel	A	1000	924.6	ug/L	-8	20	
Selenium	A	500.0	513.9	ug/L	3	20	
Silver	A	1000	1080	ug/L	8	20	
Thallium	A	500.0	455.3	ug/L	-9	20	
Titanium	A	20000	19630	ug/L	-2		
Vanadium	A	500.0	550.8	ug/L	10	20	
Zinc	A	1000	960.1	ug/L	-4	20	
Aluminum	R	500000	499400	ug/L	0		
Calcium	R	500000	492500	ug/L	-2		
Iron	R	200000	190500	ug/L	-5		
Magnesium	R	500000	499800	ug/L	0		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2075906	1766394	-14.91

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86221130085 File : 060206br.txt Time : 02-JUN-2006 18:41
Cal : 86221130001 Caldate: 02-JUN-2006
Standards: S3527

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	524.9	ug/L	5	20	
Arsenic	A	500.0	542.5	ug/L	9	20	
Barium	A	500.0	523.3	ug/L	5	20	
Beryllium	A	500.0	522.2	ug/L	4	20	
Cadmium	A	1000	988.4	ug/L	-1	20	
Chromium	A	500.0	509.6	ug/L	2	20	
Cobalt	A	500.0	455.0	ug/L	-9	20	
Copper	A	500.0	493.6	ug/L	-1	20	
Lead	A	1000	940.1	ug/L	-6	20	
Manganese	A	500.0	508.8	ug/L	2	20	
Molybdenum	A	500.0	514.8	ug/L	3	20	
Nickel	A	1000	918.0	ug/L	-8	20	
Selenium	A	500.0	512.7	ug/L	3	20	
Silver	A	1000	1051	ug/L	5	20	
Thallium	A	500.0	460.6	ug/L	-8	20	
Titanium	A	20000	19320	ug/L	-3		
Vanadium	A	500.0	543.7	ug/L	9	20	
Zinc	A	1000	954.5	ug/L	-5	20	
Aluminum	R	500000	490300	ug/L	-2		
Calcium	R	500000	481300	ug/L	-4		
Iron	R	200000	186900	ug/L	-7		
Magnesium	R	500000	490400	ug/L	-2		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2075906	1786100	-13.96

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86221130 Instrument: MET08 PE ICP Begun: 02-JUN-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
001	060206br	ICALBLK				02-JUN-2006 13:30	1.0	1.0			
002	060206br	ICAL	CRIM08			02-JUN-2006 13:34	1.0	1.0		1	
003	060206br	ICAL	CS100			02-JUN-2006 13:38	1.0	1.0		2	
004	060206br	ICAL	CS1K			02-JUN-2006 13:41	1.0	1.0		3	
005	060206br	ICAL	CS10K			02-JUN-2006 13:43	1.0	1.0		4	
006	060206br	ICAL	CS100K			02-JUN-2006 13:46	1.0	1.0		5	
007	060206br	ICV				02-JUN-2006 13:49	1.0	1.0	5000	6	
008	060206br	ICB				02-JUN-2006 13:52	1.0	1.0	5000		
009	060206br	ICSA				02-JUN-2006 13:56	1.0	1.0	5000	7	10:AL=499411
010	060206br	ICSAB				02-JUN-2006 14:11	1.0	1.0	5000	8	5:AL=503985
011	060206br	MSS	187020-001	113955	Filtra	02-JUN-2006 14:14	10.0	1.0	5000		
012	060206br	SER	QC342084	113955	Filtra	02-JUN-2006 14:17	50.0	1.0	5000		
013	060206br	MS	QC342082	113955	Filtra	02-JUN-2006 14:21	10.0	1.0	5000		
014	060206br	MSD	QC342083	113955	Filtra	02-JUN-2006 14:24	10.0	1.0	5000		
015	060206br	PDS	QC342085	113955	Filtra	02-JUN-2006 14:27	10.0	1.0	5000	9 10	308
016	060206br	SAMPLE	187020-002	113955	Filtra	02-JUN-2006 14:29	10.0	1.0	5000		
017	060206br	SAMPLE	187020-003	113955	Filtra	02-JUN-2006 14:32	10.0	1.0	5000		
018	060206br	SAMPLE	187020-004	113955	Filtra	02-JUN-2006 14:36	10.0	1.0	5000		
019	060206br	X	RINSE			02-JUN-2006 14:40	1.0				
020	060206br	X				02-JUN-2006 14:44	1.0	1.0	5000	11	
021	060206br	CCV				02-JUN-2006 14:45	1.0	1.0	5000	11	
022	060206br	X	FLUSH			02-JUN-2006 14:51	1.0				
023	060206br	CCB				02-JUN-2006 14:55	1.0	1.0	5000		
024	060206br	SAMPLE	187020-005	113955	Filtra	02-JUN-2006 14:59	10.0	1.0	5000		
025	060206br	SAMPLE	187020-006	113955	Filtra	02-JUN-2006 15:02	10.0	1.0	5000		
026	060206br	SAMPLE	187020-007	113955	Filtra	02-JUN-2006 15:05	10.0	1.0	5000		
027	060206br	SAMPLE	187020-008	113955	Filtra	02-JUN-2006 15:08	10.0	1.0	5000		
028	060206br	SAMPLE	187020-009	113955	Filtra	02-JUN-2006 15:11	10.0	1.0	5000		
029	060206br	SAMPLE	187020-010	113955	Filtra	02-JUN-2006 15:15	10.0	1.0	5000		
030	060206br	SAMPLE	187020-011	113955	Filtra	02-JUN-2006 15:19	10.0	1.0	5000		
031	060206br	SAMPLE	187020-012	113955	Filtra	02-JUN-2006 15:24	10.0	1.0	5000		

Stds used: 1=S3580 2=S3582 3=S3581 4=S3583 5=S3584 6=S3541 7=S3254 8=S3527 9=S1792 10=S1793 11=S3543

Analyst: AA Date: 6/2/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86221130 Instrument: MET08 PE ICP Begun: 02-JUN-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	060206br	SAMPLE	187020-013	113955	Filtra	02-JUN-2006 15:28	10.0	1.0			5000		
033	060206br	SAMPLE	187020-014	113955	Filtra	02-JUN-2006 15:32	10.0	1.0			5000		
034	060206br	X	RINSE			02-JUN-2006 15:36	1.0						
035	060206br	CCV				02-JUN-2006 15:40	1.0	1.0			5000	11	
036	060206br	X	FLUSH			02-JUN-2006 15:42	1.0						
037	060206br	CCB				02-JUN-2006 15:46	1.0	1.0			5000		
038	060206br	SAMPLE	187020-015	113955	Filtra	02-JUN-2006 15:50	10.0	1.0			5000		
039	060206br	SAMPLE	187020-011	113955	Water	02-JUN-2006 15:54	10.0	1.0			5000		
040	060206br	SAMPLE	187020-012	113955	Water	02-JUN-2006 15:58	10.0	1.0			5000		
041	060206br	SAMPLE	187020-013	113955	Water	02-JUN-2006 16:01	10.0	1.0			5000		
042	060206br	SAMPLE	187020-014	113955	Water	02-JUN-2006 16:04	10.0	1.0			5000		
043	060206br	SAMPLE	187020-015	113955	Water	02-JUN-2006 16:07	10.0	1.0			5000		
044	060206br	ICSAB				02-JUN-2006 16:10	1.0	1.0			5000	8	5:MG=499755
045	060206br	X	RINSE			02-JUN-2006 16:13	1.0						
046	060206br	CCV				02-JUN-2006 16:17	1.0	1.0			5000	11	309
047	060206br	X	FLUSH			02-JUN-2006 16:20	1.0						
048	060206br	CCB				02-JUN-2006 16:23	1.0	1.0			5000		
049	060206br	BLANK	QC342079	113955	Filtra	02-JUN-2006 16:37	1.0	1.0			5000		
050	060206br	BS	QC342080	113955	Filtra	02-JUN-2006 16:41	1.0	1.0			5000		
051	060206br	X	QC342081	113955	Filtra	02-JUN-2006 16:44	1.0	1.0		1	5000		
052	060206br	BSD	QC342081	113955	Filtra	02-JUN-2006 16:49	1.0	1.0			5000		
053	060206br	MSS	187020-001	113955	Filtra	02-JUN-2006 16:51	1.0	1.0	1		5000		1:NA=125471
054	060206br	SER	QC342084	113955	Filtra	02-JUN-2006 16:54	5.0	1.0			5000		
055	060206br	MS	QC342082	113955	Filtra	02-JUN-2006 16:57	1.0	1.0			5000		2:NA=139744
056	060206br	MSD	QC342083	113955	Filtra	02-JUN-2006 17:00	1.0	1.0			5000		2:NA=132214
057	060206br	PDS	QC342085	113955	Filtra	02-JUN-2006 17:02	1.0	1.0			5000	9 10	2:NA=143710
058	060206br	X	RINSE			02-JUN-2006 17:04	1.0						
059	060206br	CCV				02-JUN-2006 17:08	1.0	1.0			5000	11	
060	060206br	X	FLUSH			02-JUN-2006 17:10	1.0						
061	060206br	CCB				02-JUN-2006 17:14	1.0	1.0			5000		
062	060206br	SAMPLE	187020-002	113955	Filtra	02-JUN-2006 17:18	1.0	1.0	1		5000		1:NA=105703

Stds used: 1=S3580 2=S3582 3=S3581 4=S3583 5=S3584 6=S3541 7=S3254 8=S3527 9=S1792 10=S1793 11=S3543

Analyst: AA Date: 6/2/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86221130 Instrument: MET08 PE ICP Begun: 02-JUN-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
063	060206br	SAMPLE	187020-003	113955	Filtra	02-JUN-2006 17:22	1.0	1.0			5000		
064	060206br	SAMPLE	187020-004	113955	Filtra	02-JUN-2006 17:26	1.0	1.0			5000		
065	060206br	SAMPLE	187020-005	113955	Filtra	02-JUN-2006 17:30	1.0	1.0			5000		
066	060206br	SAMPLE	187020-006	113955	Filtra	02-JUN-2006 17:33	1.0	1.0			5000		
067	060206br	SAMPLE	187020-007	113955	Filtra	02-JUN-2006 17:36	1.0	1.0			5000		
068	060206br	SAMPLE	187020-008	113955	Filtra	02-JUN-2006 17:39	1.0	1.0			5000		
069	060206br	SAMPLE	187020-009	113955	Filtra	02-JUN-2006 17:43	1.0	1.0			5000		
070	060206br	SAMPLE	187020-010	113955	Filtra	02-JUN-2006 17:47	1.0	1.0			5000		
071	060206br	SAMPLE	187020-011	113955	Water	02-JUN-2006 17:51	1.0	1.0			5000		
072	060206br	X	RINSE			02-JUN-2006 17:54	1.0						
073	060206br	CCV				02-JUN-2006 17:58	1.0	1.0			5000	11	
074	060206br	X	FLUSH			02-JUN-2006 18:01	1.0						
075	060206br	CCB				02-JUN-2006 18:04	1.0	1.0			5000		
076	060206br	SAMPLE	187020-012	113955	Water	02-JUN-2006 18:08	1.0	1.0			5000		
077	060206br	SAMPLE	187020-013	113955	Water	02-JUN-2006 18:12	1.0	1.0			5000		310
078	060206br	SAMPLE	187020-014	113955	Water	02-JUN-2006 18:15	1.0	1.0	2		5000		2:NA=185609
079	060206br	SAMPLE	187020-015	113955	Water	02-JUN-2006 18:18	1.0	1.0	1		5000		1:NA=208805
080	060206br	SAMPLE	187020-011	113955	Filtra	02-JUN-2006 18:21	1.0	1.0			5000		
081	060206br	SAMPLE	187020-012	113955	Filtra	02-JUN-2006 18:25	1.0	1.0			5000		
082	060206br	SAMPLE	187020-013	113955	Filtra	02-JUN-2006 18:30	1.0	1.0			5000		
083	060206br	SAMPLE	187020-014	113955	Filtra	02-JUN-2006 18:34	1.0	1.0	2		5000		2:NA=188758
084	060206br	SAMPLE	187020-015	113955	Filtra	02-JUN-2006 18:38	1.0	1.0	1		5000		1:NA=215999
085	060206br	ICSAB				02-JUN-2006 18:41	1.0	1.0			5000	8	5:MG=490447
086	060206br	X	RINSE			02-JUN-2006 18:44	1.0						
087	060206br	CCV				02-JUN-2006 18:48	1.0	1.0			5000	11	
088	060206br	X	FLUSH			02-JUN-2006 18:50	1.0						
089	060206br	CCB				02-JUN-2006 18:54	1.0	1.0			5000		

Stds used: 1=S3580 2=S3582 3=S3581 4=S3583 5=S3584 6=S3541 7=S3254 8=S3527 9=S1792 10=S1793 11=S3543

Analyst: AH Date: 6/2/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56226997001
Units : ug/L

Date : 06-JUN-2006 15:29
X Axis : R

Reviewer: ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	f0615004	56226997004	CS1	06-JUN-2006 15:34	S3608
L2	f0615005	56226997005	CS2	06-JUN-2006 15:40	S3609
L3	f0615006	56226997006	CS3	06-JUN-2006 15:45	S3610
L4	f0615007	56226997007	CS4	06-JUN-2006 15:51	S3611
L5	f0615008	56226997008	CS5	06-JUN-2006 15:57	S3605
L6	f0615009	56226997009	CS6	06-JUN-2006 16:02	S3606

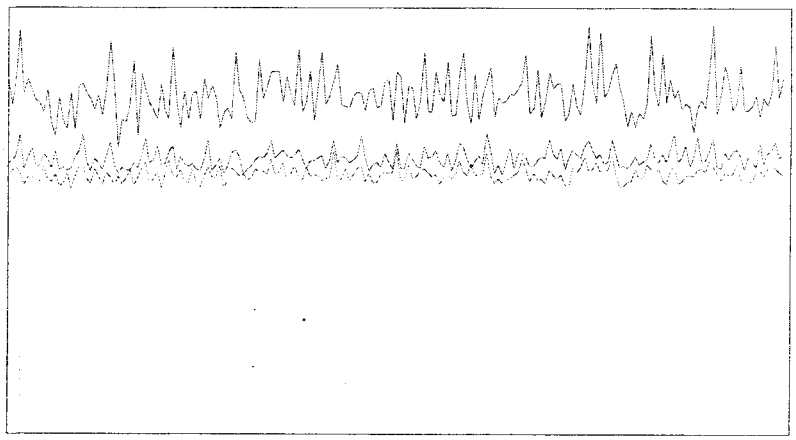
Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		7.6362	3.5258	0.7139	0.4706	0.4560	BLNK	-8.4511	2.29061		2.5605	1.000	0.995	
Antimony	0.3053	0.2683	0.2543	0.2443	0.2427	0.2409	BLNK	-0.0380	4.14639		0.2593	1.000	0.995	
Arsenic		0.4953	0.4649	0.4141	0.3941	0.3924	BLNK	-0.0822	2.54731		0.4322	1.000	0.995	
Barium	0.1311	0.1046	0.1004	0.0905	0.0900	0.0897	BLNK	-0.0437	11.1455		0.1011	1.000	0.995	
Beryllium	0.1502	0.1315	0.1226	0.1303	0.1272	0.1255	BLNK	-0.0184	7.94666		0.1312	1.000	0.995	
Cadmium	0.7818	0.5995	0.5604	0.4817	0.4583	0.4424	BLNK	-0.1925	2.24641		0.5540	1.000	0.995	
Calcium		0.0284	0.0216	0.0170	0.0177	0.0173	BLNK	-32.804	57.5858		0.0204	1.000	0.995	
Chromium		6.4876	4.6058	3.0994	2.8492	2.9254	BLNK	-0.6865	0.34504		3.9935	1.000	0.995	311
Cobalt	4.0164	3.3874	3.3993	3.1802	3.0136	3.1469	BLNK	-0.0385	0.32055		3.3573	1.000	0.995	
Copper		1.1746	0.9956	0.7707	0.7089	0.7037	BLNK	-0.2378	1.42069		0.8707	1.000	0.995	
Iron		0.1359	0.1065	0.0837	0.0845	0.0827	BLNK	-32.726	12.0620		0.0987	1.000	0.995	
Lead	1.0682	0.9549	0.9379	0.8820	0.8773	0.8826	BLNK	-0.0356	1.13461		0.9338	1.000	0.995	
Magnesium		0.0856	0.0716	0.0613	0.0612	0.0599	BLNK	-24.477	16.6440		0.0679	1.000	0.995	
Manganese	6.3900	5.4228	4.8005	4.2146	3.9967	4.2762	BLNK	-0.1229	0.23713		4.8501	0.999	0.995	
Molybdenum		1.0223	0.8891	0.8297	0.8132	0.8076	BLNK	-0.1624	1.23767		0.8724	1.000	0.995	
Nickel	1.0833	0.9759	0.7781	0.6877	0.6377	0.6323	BLNK	-0.1793	1.58026		0.7992	1.000	0.995	
Potassium		1.2794	0.8968	0.5953	0.5223	0.5159	BLNK	-74.277	1.94178		0.7619	1.000	0.995	
Selenium		0.0640	0.0482	0.0357	0.0309	0.0298	BLNK	-0.2473	33.3214		0.0417	1.000	0.995	
Silver	2.4841	2.3724	2.1467	2.1738	2.0587	2.0161	BLNK	-0.0225	0.49392		2.2086	1.000	0.995	
Sodium		2.2045	1.3939	0.7297	0.6382	0.6288	BLNK	-133.98	1.59814		1.1190	1.000	0.995	
Thallium		0.7260	0.6853	0.6088	0.6375	0.6874	BLNK	-0.0678	1.47708		0.6690	0.999	0.995	
Vanadium		4.5585	3.7487	3.2915	3.2144	3.5179	BLNK	-0.0688	0.28940		3.6662	0.998	0.995	
Zinc		2.6165	1.5353	0.5853	0.4682	0.4515	BLNK	-1.8588	2.22271		1.1314	1.000	0.995	

Instrument amount = a0 + response * a1 + response^2 * a2; BLNK=Y=aX+[blank]

56226997001

Tune Report

Tune File : Autotune.u



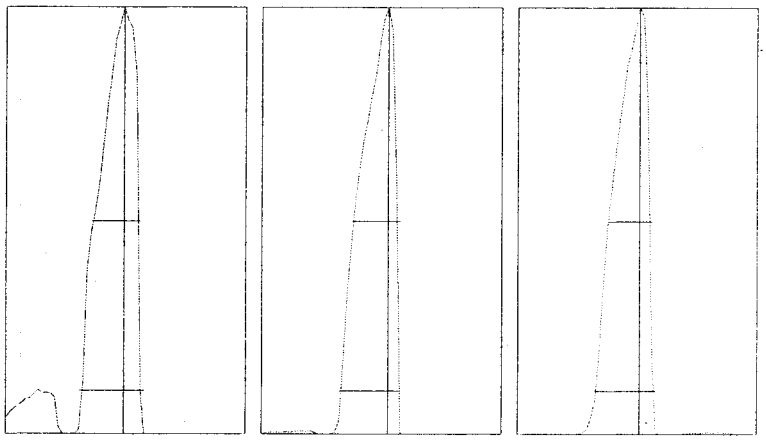
m/z:	7	89	205
Range:	10,000	20,000	20,000
Count:	8,356	13,109	12,125
Mean:	7960.9	12933.1	12163.3
RSD%:	6.72	3.40	2.86
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.39%
Doubly Charged:	70/140	2.68%

Background:

m/z:	7	89	205
Cps:	10.8	3.1	3.8



m/z:	7	89	205
Height:	7,810	14,024	12,754
Axis:	7.00	89.10	205.05
W-50%:	0.60	0.60	0.55
W-10%:	0.800	0.7500	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1320 W	Extract 1:	-140 V	AMU Gain:	131
RF Matching:	1.7 V	Extract 2:	-110 V	AMU Offset:	125
Smpl Depth:	7 mm	Einzel 1,3:	-161 V	Axis Gain:	0.9993
Torch-H:	0.1 mm	Einzel 2:	7 V	Axis Offset:	-0.06
Torch-V:	0.2 mm	Omega Bias:	-65 V	QP Bias:	1.6 V
Carrier Gas:	1.05 L/min	Omega (+):	0 V		
Makeup Gas:	0 L/min	Omega (-):	-5 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	6 V	Discriminator:	9.1 mV
PeriPump1:	0.1 rps	Plate Bias:	-5 V	Analog HV:	1790 V
PeriPump2:	--- rps			Pulse HV:	1450 V
S/C Temp:	2 degC				

Generated : Jun 06, 2006 12:53:16
Printed : Jun 06, 2006 12:53:22

P/A Factor Tuning Report

Acquired:Jun 6 2006 01:00 pm

Mass[amu]	Element	P/A Factor
6	Li	0.078329
9	Be	0.086098
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.101276
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.103861
45	Sc	0.099061
51	V	0.104008
52	Cr	0.105067
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.107003
57	Fe	0.107373
59	Co	0.108000
60	Ni	Sensitivity too low
63	Cu	0.107580
65	Cu	0.105262
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.103370
95	Mo	Sensitivity too low
98	Mo	0.104308
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.107211
111	Cd	Sensitivity too low
114	Cd	0.106388
115	In	0.106189
118	(In)	Sensitivity too high
121	Sb	0.108130
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.109268
166	Er	Sensitivity too low

205	Tl	0.111833
206	(Pb)	0.109992
207	(Pb)	0.109187
208	Pb	0.111359
209	Bi	0.108655

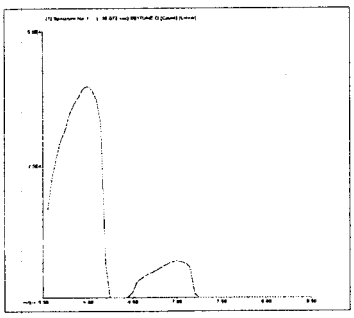
```
===Detector Parameters===
  Discriminator: 9.1 mV
      Analog HV: 1790 V
       Pulse HV: 1450 V
```

6020 QC Tune Report

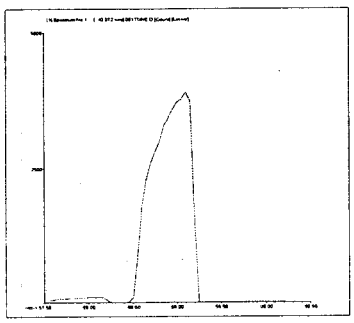
Data File: C:\ICPCHEM\1\DATA\06F0615a.B\001TUNE.D
Date Acquired: Jun 6 2006 03:17 pm
Acq. Method: TN6020.M
Operator:
Sample Name: tun,s3622
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

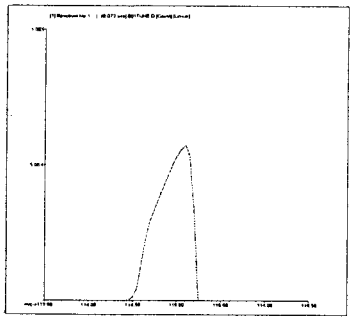
Element	Actual	Required	Flag
7 Li	2.73	5.00	
59 Co	2.41	5.00	
115 In	1.02	5.00	
205 Tl	1.72	5.00	



7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.10
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:



115 In

Mass Calib.

Actual: 115.10

Required: 114.90 - 115.10

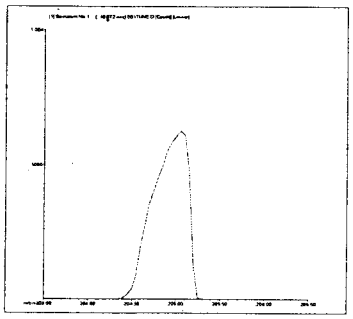
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



205 Tl

Mass Calib.

Actual: 205.05

Required: 204.90 - 205.10

Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06F0615a.B\003CAL
Date Acquired:	Jun 6 2006 03:29 pm
Operator:	
Sample Name:	std-blk
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\DATA\06D0108A.B\602001
Last Cal Update:	Jun 06 2006 02:05 pm
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	409002.19	P	4607.00	1.13
9	Be	18.89	P	10.72	56.75
23	Na	485072.19	P	27940.00	5.76
26	Mg	8508.89	P	463.30	5.44
27	Al	21338.89	P	565.90	2.65
39	K	221208.91	P	3249.00	1.47
44	Ca	3296.99	P	272.10	8.25
45	Sc	289166.69	P	5097.00	1.76
51	V	284.21	P	159.90	56.26
52	Cr	2376.67	P	70.95	2.99
55	Mn	618.89	P	6.94	1.12
57	Fe	3241.11	P	148.00	4.57
59	Co	143.33	P	29.06	20.27
60	Ni	135.56	P	1.93	1.42
65	Cu	199.96	P	20.82	10.41
66	Zn	998.89	P	80.58	8.07
72	Ge	59725.33	P	246.60	0.41
75	As	38.53	P	13.67	35.48
82	Se	8.89	P	10.21	114.86
95	Mo	156.67	P	14.53	9.27
109	Ag	54.44	P	22.19	40.76
111	Cd	102.32	P	14.70	14.37
115	In	466498.19	P	3710.00	0.80
121	Sb	85.56	P	11.71	13.69
137	Ba	36.67	P	12.02	32.78
205	Tl	443.33	P	57.83	13.04
208	Pb	303.33	P	8.82	2.91
209	Bi	483064.41	P	3198.00	0.66

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0615a.B\004CALI.D\004CALI.D#
Date Acquired: Jun 6 2006 03:34 pm
Operator:
Sample Name: cs1,s3608
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 06 2006 03:30 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	412888.91	P	7481.00	1.81
9 Be	310.00	P	17.64	5.69
23 Na	666589.31	A	26160.00	3.92
26 Mg	17904.44	P	319.60	1.79
27 Al	25855.55	P	1154.00	4.46
39 K	307690.00	P	2228.00	0.72
44 Ca	6351.88	P	365.20	5.75
45 Sc	295885.50	P	1688.00	0.57
51 V	1582.87	P	169.40	10.70
52 Cr	3402.22	P	108.80	3.20
55 Mn	1932.22	P	13.47	0.70
57 Fe	5941.11	P	210.00	3.53
59 Co	1214.44	P	53.58	4.41
60 Ni	327.78	P	30.97	9.45
65 Cu	512.14	P	29.12	5.69
66 Zn	1313.33	P	58.59	4.46
72 Ge	60478.44	P	691.20	1.14
75 As	135.40	P	87.25	64.44
82 Se	14.89	P	3.42	22.98
95 Mo	374.44	P	5.09	1.36
109 Ag	751.11	P	25.89	3.45
111 Cd	236.45	P	19.85	8.40
115 In	466077.91	P	4899.00	1.05
121 Sb	711.11	P	38.35	5.39
137 Ba	305.56	P	19.53	6.39
205 Tl	1962.22	P	136.70	6.97
208 Pb	2574.44	P	50.59	1.97
209 Bi	482033.31	P	2527.00	0.52

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	412888.88	1.81	409002.19	101.0	80 - 120	

45	Sc	295885.53	0.57	289166.66	102.3	80 -	120
72	Ge	60478.44	1.14	59725.33	101.3	80 -	120
115	In	466077.91	1.05	466498.22	99.9	80 -	120
209	Bi	482033.31	0.52	483064.41	99.8	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0615a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0615a.B\005CALI.D\005CALI.D#
Date Acquired: Jun 6 2006 03:40 pm
Operator:
Sample Name: cs2,s3609
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 06 2006 03:36 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	411613.31	P	4688.00	1.14
9 Be	541.11	P	58.72	10.85
23 Na	645040.88	M	41810.00	6.48
26 Mg	25068.89	P	237.00	0.95
27 Al	22353.33	P	190.10	0.85
39 K	374541.09	P	1114.00	0.30
44 Ca	8322.62	P	146.90	1.77
45 Sc	292792.19	P	4191.00	1.43
51 V	2719.43	P	284.10	10.45
52 Cr	3871.11	P	218.20	5.64
55 Mn	3235.55	P	78.62	2.43
57 Fe	8107.78	P	147.50	1.82
59 Co	2021.11	P	131.10	6.49
60 Ni	582.22	P	9.62	1.65
65 Cu	701.00	P	90.76	12.95
66 Zn	1561.11	P	41.94	2.69
72 Ge	59664.89	P	180.00	0.30
75 As	295.50	P	20.78	7.03
82 Se	38.22	P	12.39	32.42
95 Mo	610.00	P	23.09	3.79
109 Ag	1415.56	P	53.47	3.78
111 Cd	357.74	P	41.03	11.47
115 In	464054.00	P	3955.00	0.85
121 Sb	1245.56	P	85.27	6.85
137 Ba	485.56	P	51.24	10.55
205 Tl	3482.22	P	165.60	4.76
208 Pb	4578.89	P	64.06	1.40
209 Bi	479520.00	P	3844.00	0.80

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	411613.31	1.14	409002.19	100.6	80 - 120	

45	Sc	292792.19	1.43	289166.66	101.3	80 -	120
72	Ge	59664.89	0.30	59725.33	99.9	80 -	120
115	In	464054.00	0.85	466498.22	99.5	80 -	120
209	Bi	479519.97	0.80	483064.41	99.3	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0615a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0615a.B\006CALI.D\006CALI.D#
Date Acquired: Jun 6 2006 03:45 pm
Operator:
Sample Name: cs3,s3610
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 06 2006 03:41 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	403427.81	P	10870.00	2.69
9 Be	990.00	P	66.92	6.76
23 Na	792911.38	A	20380.00	2.57
26 Mg	40754.44	P	843.90	2.07
27 Al	20062.22	P	938.60	4.68
39 K	510123.31	P	7960.00	1.56
44 Ca	12269.26	P	199.80	1.63
45 Sc	284417.81	P	4059.00	1.43
51 V	4395.13	P	155.40	3.54
52 Cr	5400.00	P	228.20	4.23
55 Mn	5627.78	P	100.10	1.78
57 Fe	12484.44	P	247.70	1.98
59 Co	3984.44	P	163.70	4.11
60 Ni	912.22	P	63.63	6.98
65 Cu	1167.60	P	122.20	10.47
66 Zn	1800.00	P	72.19	4.01
72 Ge	58615.78	P	334.10	0.57
75 As	545.09	P	27.99	5.13
82 Se	56.44	P	4.91	8.71
95 Mo	1042.22	P	35.95	3.45
109 Ag	2516.67	P	42.56	1.69
111 Cd	657.05	P	20.95	3.19
115 In	461024.31	P	2862.00	0.62
121 Sb	2344.44	P	59.29	2.53
137 Ba	925.56	P	57.38	6.20
205 Tl	6483.33	P	78.10	1.20
208 Pb	8873.33	P	208.00	2.34
209 Bi	473013.31	P	1865.00	0.39

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	403427.78	2.69	409002.19	98.6	80 - 120	

45	Sc	284417.78	1.43	289166.66	98.4	80 -	120
72	Ge	58615.78	0.57	59725.33	98.1	80 -	120
115	In	461024.31	0.62	466498.22	98.8	80 -	120
209	Bi	473013.31	0.39	483064.41	97.9	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0615a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0615a.B\007CALI.D\007CALI.D#
Date Acquired: Jun 6 2006 03:51 pm
Operator:
Sample Name: cs4,s3611
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 06 2006 03:47 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	398507.81	P	7827.00	1.96
9 Be	10381.11	P	200.90	1.94
23 Na	4182560.00	A	43670.00	1.04
26 Mg	351328.91	P	3248.00	0.92
27 Al	40926.67	P	487.90	1.19
39 K	3412222.00	A	19880.00	0.58
44 Ca	97687.39	P	684.70	0.70
45 Sc	286646.69	P	4233.00	1.48
51 V	38822.82	P	1386.00	3.57
52 Cr	36560.00	P	1032.00	2.82
55 Mn	49715.55	P	625.30	1.26
57 Fe	98780.00	P	1789.00	1.81
59 Co	37511.11	P	221.90	0.59
60 Ni	8112.22	P	42.21	0.52
65 Cu	9090.67	P	183.90	2.02
66 Zn	6902.22	P	318.90	4.62
72 Ge	58980.44	P	463.30	0.79
75 As	4883.89	P	51.29	1.05
82 Se	420.67	P	17.33	4.12
95 Mo	9785.55	P	200.00	2.04
109 Ag	25638.89	P	357.80	1.40
111 Cd	5681.93	P	170.20	3.00
115 In	458264.59	P	2909.00	0.63
121 Sb	22387.78	P	442.70	1.98
137 Ba	8295.55	P	231.40	2.79
205 Tl	57895.55	P	1285.00	2.22
208 Pb	83871.11	P	1152.00	1.37
209 Bi	475452.19	P	5508.00	1.16

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	398507.78	1.96	409002.19	97.4	80 - 120	

45	Sc	286646.66	1.48	289166.66	99.1	80 -	120
72	Ge	58980.44	0.79	59725.33	98.8	80 -	120
115	In	458264.56	0.63	466498.22	98.2	80 -	120
209	Bi	475452.22	1.16	483064.41	98.4	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0615a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass

ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0615a.B\008CALI.D\008CALI.D#
Date Acquired: Jun 6 2006 03:57 pm
Operator:
Sample Name: cs5,s3605
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 06 2006 03:53 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	385058.91	P	2281.00	0.59
9	Be	97933.33	P	1094.00	1.12
23	Na	36390728.00	A	621600.00	1.71
26	Mg	3492115.00	A	14310.00	0.41
27	Al	268315.50	P	1110.00	0.41
39	K	29777860.00	A	216900.00	0.73
44	Ca	1010775.00	A	5223.00	0.52
45	Sc	285095.50	P	3228.00	1.13
51	V	380930.19	P	3582.00	0.94
52	Cr	337665.50	P	3542.00	1.05
55	Mn	473646.59	P	2648.00	0.56
57	Fe	1001470.00	A	778.30	0.08
59	Co	357128.91	P	2412.00	0.68
60	Ni	75572.22	P	432.30	0.57
65	Cu	84013.21	P	829.90	0.99
66	Zn	55488.88	P	415.00	0.75
72	Ge	59254.89	P	450.00	0.76
75	As	46710.13	P	397.80	0.85
82	Se	3662.67	P	46.14	1.26
95	Mo	96367.78	P	495.80	0.51
109	Ag	243974.41	P	2328.00	0.95
111	Cd	54311.69	P	620.30	1.14
115	In	451852.59	P	5719.00	1.27
121	Sb	219330.00	P	2963.00	1.35
137	Ba	81355.55	P	996.80	1.23
205	Tl	595556.63	P	8558.00	1.44
208	Pb	819648.88	P	15650.00	1.91
209	Bi	467106.59	P	2867.00	0.61

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	385058.88	0.59	409002.19	94.1	80 - 120	

45	Sc	285095.53	1.13	289166.66	98.6	80 - 120
72	Ge	59254.89	0.76	59725.33	99.2	80 - 120
115	In	451852.59	1.27	466498.22	96.9	80 - 120
209	Bi	467106.66	0.61	483064.41	96.7	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0615a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0615a.B\009CALI.D\009CALI.D#
Date Acquired: Jun 6 2006 04:02 pm
Operator:
Sample Name: cs6,s3606
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 06 2006 03:58 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	403254.41	P	6971.00	1.73
9	Be	202491.09	P	6823.00	3.37
23	Na	74624944.00	A	1968000.00	2.64
26	Mg	7106246.00	A	10760.00	0.15
27	Al	541074.38	P	11260.00	2.08
39	K	61216912.00	A	899000.00	1.47
44	Ca	2055187.00	A	36220.00	1.76
45	Sc	296670.00	P	6285.00	2.12
51	V	849563.00	A	23080.00	2.72
52	Cr	706780.81	M	42840.00	6.06
55	Mn	1032569.00	A	20140.00	1.95
57	Fe	1997270.00	A	46800.00	2.34
59	Co	760088.38	M	43380.00	5.71
60	Ni	152671.09	P	3180.00	2.08
65	Cu	169938.41	P	4662.00	2.74
66	Zn	109000.00	P	1308.00	1.20
72	Ge	60368.00	P	1212.00	2.01
75	As	94741.65	P	1903.00	2.01
82	Se	7200.67	P	58.27	0.81
95	Mo	194998.91	P	2760.00	1.42
109	Ag	486751.09	P	6746.00	1.39
111	Cd	106824.50	P	1954.00	1.83
115	In	457725.09	P	5162.00	1.13
121	Sb	440993.31	P	6859.00	1.56
137	Ba	164200.00	P	3981.00	2.42
205	Tl	1276271.00	A	3314.00	0.26
208	Pb	1638749.00	P	15580.00	0.95
209	Bi	464207.69	P	6876.00	1.48

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	403254.44	1.73	409002.19	98.6	80 - 120	

45	Sc	296670.00	2.12	289166.66	102.6	80 -	120
72	Ge	60368.00	2.01	59725.33	101.1	80 -	120
115	In	457725.13	1.13	466498.22	98.1	80 -	120
209	Bi	464207.75	1.48	483064.41	96.1	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0615a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Summary

Calibration : C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Calib: Jun 06, 2006 16:04
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\06f0615a.b\003calb.d\	003calb.d#	Jun 6 2006 03:29 pm
2	...hem\1\data\06f0615a.b\004cali.d\	004cali.d#	Jun 6 2006 03:34 pm
3	...hem\1\data\06f0615a.b\005cali.d\	005cali.d#	Jun 6 2006 03:40 pm
4	...hem\1\data\06f0615a.b\006cali.d\	006cali.d#	Jun 6 2006 03:45 pm
5	...hem\1\data\06f0615a.b\007cali.d\	007cali.d#	Jun 6 2006 03:51 pm
6	...hem\1\data\06f0615a.b\008cali.d\	008cali.d#	Jun 6 2006 03:57 pm
7	...hem\1\data\06f0615a.b\009cali.d\	009cali.d#	Jun 6 2006 04:02 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	Excluded	---	ppb
Be	9	6	Y = 1.258E-1*X +2.311E-3(blank)	---	ppb
Na	23	45	Y = 6.257E-1*X +8.383E+1(blank)	---	ppb
Mg	25	45	Excluded	---	ppb
Mg	26	45	Y = 6.008E-2*X +1.471E+0(blank)	---	ppb
Al	27	45	Y = 4.366E-1*X +3.689E+0(blank)	---	ppb
K	39	45	Y = 5.150E-1*X +3.825E+1(blank)	---	ppb
Ca	43	45	Excluded	---	ppb
Ca	44	45	Y = 1.737E-2*X +5.697E-1(blank)	---	ppb
Sc	45	---	Excluded	---	ppb
V	51	72	Y = 3.455E+0*X +2.377E-1(blank)	---	ppb
Cr	52	72	Y = 2.898E+0*X +1.990E+0(blank)	---	ppb
Cr	53	72	Excluded	---	ppb
Fe	54	72	Excluded	---	ppb
Mn	55	72	Y = 4.217E+0*X +5.181E-1(blank)	---	ppb
Fe	57	72	Y = 8.290E-2*X +2.713E+0(blank)	---	ppb
Co	59	72	Y = 3.120E+0*X +1.200E-1(blank)	---	ppb
Ni	60	72	Y = 6.328E-1*X +1.135E-1(blank)	---	ppb
Cu	63	72	Excluded	---	ppb
Cu	65	72	Y = 7.039E-1*X +1.674E-1(blank)	---	ppb
Zn	66	72	Y = 4.499E-1*X +8.363E-1(blank)	---	ppb
Ge	72	---	Excluded	---	ppb
As	75	72	Y = 3.926E-1*X +3.229E-2(blank)	---	ppb
(As)	77	72	Excluded	---	ppb
Se	82	72	Y = 3.001E-2*X +7.420E-3(blank)	---	ppb
(As)	83	72	Excluded	---	ppb
(Ca)	88	72	Excluded	---	ppb
Y	89	72	Excluded	---	ppb
Mo	95	72	Y = 8.080E-1*X +1.312E-1(blank)	---	ppb
Mo	98	72	Excluded	---	ppb
(Mo)	99	72	Excluded	---	ppb
(Cd)	106	72	Excluded	---	ppb
(Cd)	108	72	Excluded	---	ppb
Ag	109	72	Y = 2.025E+0*X +4.562E-2(blank)	---	ppb
Cd	111	72	Y = 4.452E-1*X +8.569E-2(blank)	---	ppb
Cd	114	72	Excluded	---	ppb
In	115	---	Excluded	---	ppb
(In)	118	---	Excluded	---	ppb
Sb	121	115	Y = 2.412E-1*X +9.169E-3(blank)	---	ppb
Ba	135	115	Excluded	---	ppb
Ba	137	115	Y = 8.972E-2*X +3.924E-3(blank)	---	ppb
Tb	159	---	Excluded	---	ppb
Er	166	115	Excluded	---	ppb
Tl	205	209	Y = 6.770E-1*X +4.589E-2(blank)	---	ppb
(Pb)	206	209	Excluded	---	ppb
(Pb)	207	209	Excluded	---	ppb
Pb	208	209	Y = 8.814E-1*X +3.140E-2(blank)	---	ppb
Bi	209	---	Excluded	---	ppb
Th	232	209	--------	---	ppb
U	238	209	--------	---	ppb

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997010 File : f0615010 Time : 06-JUN-2006 16:08
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3601

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	2.5605	0.4837	100.0	102.3	ug/L	2	10	
Antimony	0.2593	0.2385	100.0	98.86	ug/L	-1	10	
Arsenic	0.4322	0.3949	100.0	100.5	ug/L	1	10	
Barium	0.1011	0.0885	100.0	98.56	ug/L	-1	10	
Beryllium	0.1312	0.1264	100.0	100.4	ug/L	0	10	
Cadmium	0.5540	0.4504	100.0	101.0	ug/L	1	10	
Calcium	0.0204	0.0176	10000	10120	ug/L	1	10	
Chromium	3.9935	2.8573	100.0	97.90	ug/L	-2	10	
Cobalt	3.3573	3.0193	100.0	96.74	ug/L	-3	10	
Copper	0.8707	0.7116	100.0	100.9	ug/L	1	10	
Iron	0.0987	0.0838	10000	10080	ug/L	1	10	
Lead	0.9338	0.8734	100.0	99.06	ug/L	-1	10	
Magnesium	0.0679	0.0628	10000	10430	ug/L	4	10	
Manganese	4.8501	3.9427	100.0	93.37	ug/L	-7	10	
Molybdenum	0.8724	0.7953	100.0	98.27	ug/L	-2	10	
Nickel	0.7992	0.6269	100.0	98.89	ug/L	-1	10	
Potassium	0.7619	0.5267	10000	10150	ug/L	2	10	
Selenium	0.0417	0.0303	100.0	100.7	ug/L	1	10	
Silver	2.2086	2.0304	100.0	100.3	ug/L	0	10	
Sodium	1.1190	0.6435	10000	10150	ug/L	2	10	
Thallium	0.6690	0.6273	50.00	46.26	ug/L	-7	10	
Vanadium	3.6662	3.2166	100.0	93.02	ug/L	-7	10	
Zinc	1.1314	0.4653	100.0	101.6	ug/L	2	10	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	405462	-0.87
Scandium	289167	293560	1.52
Germanium	59725	61104	2.31
Indium	466498	460452	-1.30
Bismuth	483064	474326	-1.81

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997026 File : f0615026 Time : 06-JUN-2006 17:38
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3602, S3310

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.5605	0.5026	100.0	106.7	ug/L	7	10	
Antimony	0.2593	0.2424	100.0	100.5	ug/L	1	10	
Arsenic	0.4322	0.3970	100.0	101.1	ug/L	1	10	
Barium	0.1011	0.0904	100.0	100.7	ug/L	1	10	
Beryllium	0.1312	0.1270	100.0	100.9	ug/L	1	10	
Cadmium	0.5540	0.4515	100.0	101.2	ug/L	1	10	
Calcium	0.0204	0.0180	10000	10330	ug/L	3	10	
Chromium	3.9935	2.8693	100.0	98.32	ug/L	-2	10	
Cobalt	3.3573	3.0439	100.0	97.53	ug/L	-2	10	
Copper	0.8707	0.7123	100.0	101.0	ug/L	1	10	
Iron	0.0987	0.0847	10000	10180	ug/L	2	10	
Lead	0.9338	0.8806	100.0	99.87	ug/L	0	10	
Magnesium	0.0679	0.0627	10000	10410	ug/L	4	10	
Manganese	4.8501	4.0135	100.0	95.05	ug/L	-5	10	
Molybdenum	0.8724	0.8113	100.0	100.2	ug/L	0	10	
Nickel	0.7992	0.6350	100.0	100.2	ug/L	0	10	
Potassium	0.7619	0.5294	10000	10210	ug/L	2	10	
Selenium	0.0417	0.0310	100.0	102.9	ug/L	3	10	
Silver	2.2086	2.0480	100.0	101.1	ug/L	1	10	
Sodium	1.1190	0.6524	10000	10290	ug/L	3	10	
Thallium	0.6690	0.6213	50.00	45.81	ug/L	-8	10	
Vanadium	3.6662	3.1885	100.0	92.20	ug/L	-8	10	
Zinc	1.1314	0.4635	100.0	101.2	ug/L	1	10	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	384100	-6.09
Scandium	289167	277360	-4.08
Germanium	59725	58969	-1.27
Indium	466498	441948	-5.26
Bismuth	483064	455501	-5.71

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997037 File : f0615037 Time : 06-JUN-2006 18:48
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3621, S3310

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.5605	0.4652	150.0	151.4	ug/L	1	10	
Antimony	0.2593	0.2313	150.0	143.8	ug/L	-4	10	
Arsenic	0.4322	0.3790	150.0	144.7	ug/L	-4	10	
Barium	0.1011	0.0872	150.0	145.7	ug/L	-3	10	
Beryllium	0.1312	0.1208	150.0	143.9	ug/L	-4	10	
Cadmium	0.5540	0.4117	150.0	138.5	ug/L	-8	10	
Calcium	0.0204	0.0169	15000	14550	ug/L	-3	10	
Chromium	3.9935	2.7991	150.0	144.2	ug/L	-4	10	
Cobalt	3.3573	2.9667	150.0	142.6	ug/L	-5	10	
Copper	0.8707	0.7046	150.0	149.9	ug/L	0	10	
Iron	0.0987	0.0822	15000	14840	ug/L	-1	10	
Lead	0.9338	0.8421	150.0	143.3	ug/L	-4	10	
Magnesium	0.0679	0.0602	15000	15020	ug/L	0	10	
Manganese	4.8501	4.0865	150.0	145.2	ug/L	-3	10	
Molybdenum	0.8724	0.7623	150.0	141.4	ug/L	-6	10	
Nickel	0.7992	0.6257	150.0	148.1	ug/L	-1	10	
Potassium	0.7619	0.5036	15000	14590	ug/L	-3	10	
Selenium	0.0417	0.0289	150.0	144.4	ug/L	-4	10	
Silver	2.2086	1.8975	150.0	140.6	ug/L	-6	10	
Sodium	1.1190	0.6295	15000	14960	ug/L	0	10	
Thallium	0.6690	0.6204	150.0	137.4	ug/L	-8	10	
Vanadium	3.6662	3.1971	150.0	138.7	ug/L	-8	10	
Zinc	1.1314	0.4409	150.0	145.1	ug/L	-3	10	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	427199	4.45
Scandium	289167	307673	6.40
Germanium	59725	63320	6.02
Indium	466498	459278	-1.55
Bismuth	483064	461141	-4.54

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997053 File : f0615053 Time : 06-JUN-2006 20:22
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3621, S3310

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.5605	0.5050	150.0	165.1	ug/L	10	10	
Antimony	0.2593	0.2373	150.0	147.5	ug/L	-2	10	
Arsenic	0.4322	0.3896	150.0	148.8	ug/L	-1	10	
Barium	0.1011	0.0902	150.0	150.8	ug/L	1	10	
Beryllium	0.1312	0.1259	150.0	150.0	ug/L	0	10	
Cadmium	0.5540	0.4143	150.0	139.4	ug/L	-7	10	
Calcium	0.0204	0.0175	15000	15060	ug/L	0	10	
Chromium	3.9935	2.9220	150.0	150.5	ug/L	0	10	
Cobalt	3.3573	3.1109	150.0	149.5	ug/L	0	10	
Copper	0.8707	0.7225	150.0	153.7	ug/L	2	10	
Iron	0.0987	0.0860	15000	15530	ug/L	4	10	
Lead	0.9338	0.8555	150.0	145.6	ug/L	-3	10	
Magnesium	0.0679	0.0658	15000	16410	ug/L	9	10	
Manganese	4.8501	4.3617	150.0	155.0	ug/L	3	10	
Molybdenum	0.8724	0.7717	150.0	143.1	ug/L	-5	10	
Nickel	0.7992	0.6527	150.0	154.5	ug/L	3	10	
Potassium	0.7619	0.5258	15000	15240	ug/L	2	10	
Selenium	0.0417	0.0296	150.0	147.5	ug/L	-2	10	
Silver	2.2086	1.8877	150.0	139.8	ug/L	-7	10	
Sodium	1.1190	0.6816	15000	16210	ug/L	8	10	
Thallium	0.6690	0.6433	150.0	142.5	ug/L	-5	10	
Vanadium	3.6662	3.3204	150.0	144.1	ug/L	-4	10	
Zinc	1.1314	0.4590	150.0	151.2	ug/L	1	10	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	444276	8.62
Scandium	289167	310377	7.33
Germanium	59725	62882	5.29
Indium	466498	446223	-4.35
Bismuth	483064	448979	-7.06

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997068 File : f0615068 Time : 06-JUN-2006 21:46
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3621, S3310

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.5605	0.4819	150.0	157.1	ug/L	5	10	
Antimony	0.2593	0.2368	150.0	147.2	ug/L	-2	10	
Arsenic	0.4322	0.3832	150.0	146.3	ug/L	-2	10	
Barium	0.1011	0.0897	150.0	150.0	ug/L	0	10	
Beryllium	0.1312	0.1258	150.0	149.9	ug/L	0	10	
Cadmium	0.5540	0.4173	150.0	140.4	ug/L	-6	10	
Calcium	0.0204	0.0173	15000	14880	ug/L	-1	10	
Chromium	3.9935	2.9161	150.0	150.2	ug/L	0	10	
Cobalt	3.3573	3.0631	150.0	147.2	ug/L	-2	10	
Copper	0.8707	0.7107	150.0	151.2	ug/L	1	10	
Iron	0.0987	0.0859	15000	15510	ug/L	3	10	
Lead	0.9338	0.8473	150.0	144.2	ug/L	-4	10	
Magnesium	0.0679	0.0640	15000	15960	ug/L	6	10	
Manganese	4.8501	4.1414	150.0	147.2	ug/L	-2	10	
Molybdenum	0.8724	0.7737	150.0	143.5	ug/L	-4	10	
Nickel	0.7992	0.6444	150.0	152.6	ug/L	2	10	
Potassium	0.7619	0.5170	15000	14990	ug/L	0	10	
Selenium	0.0417	0.0292	150.0	145.5	ug/L	-3	10	
Silver	2.2086	1.9154	150.0	141.9	ug/L	-5	10	
Sodium	1.1190	0.6764	15000	16080	ug/L	7	10	
Thallium	0.6690	0.6195	150.0	137.2	ug/L	-9	10	
Vanadium	3.6662	3.3179	150.0	144.0	ug/L	-4	10	
Zinc	1.1314	0.4564	150.0	150.3	ug/L	0	10	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	423136	3.46
Scandium	289167	300524	3.93
Germanium	59725	60098	0.62
Indium	466498	430691	-7.68
Bismuth	483064	435798	-9.78

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997080 File : f0615080 Time : 06-JUN-2006 22:53
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3621, S3310

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.5605	0.5349	150.0	175.3	ug/L	17	10	c+ ***
Antimony	0.2593	0.2365	150.0	147.1	ug/L	-2	10	
Arsenic	0.4322	0.3859	150.0	147.4	ug/L	-2	10	
Barium	0.1011	0.0891	150.0	149.0	ug/L	-1	10	
Beryllium	0.1312	0.1321	150.0	157.4	ug/L	5	10	
Cadmium	0.5540	0.3966	150.0	133.5	ug/L	-11	10	c- ***
Calcium	0.0204	0.0174	15000	14960	ug/L	0	10	
Chromium	3.9935	2.9557	150.0	152.3	ug/L	2	10	
Cobalt	3.3573	3.1474	150.0	151.3	ug/L	1	10	
Copper	0.8707	0.7251	150.0	154.3	ug/L	3	10	
Iron	0.0987	0.0868	15000	15670	ug/L	4	10	
Lead	0.9338	0.8443	150.0	143.7	ug/L	-4	10	
Magnesium	0.0679	0.0680	15000	16950	ug/L	13	10	c+ ***
Manganese	4.8501	4.2850	150.0	152.3	ug/L	2	10	
Molybdenum	0.8724	0.7472	150.0	138.5	ug/L	-8	10	
Nickel	0.7992	0.6641	150.0	157.2	ug/L	5	10	
Potassium	0.7619	0.5230	15000	15160	ug/L	1	10	
Selenium	0.0417	0.0287	150.0	143.1	ug/L	-5	10	
Silver	2.2086	1.8249	150.0	135.2	ug/L	-10	10	
Sodium	1.1190	0.7151	15000	17010	ug/L	13	10	c+ ***
Thallium	0.6690	0.6180	150.0	136.9	ug/L	-9	10	
Vanadium	3.6662	3.3503	150.0	145.4	ug/L	-3	10	
Zinc	1.1314	0.4567	150.0	150.4	ug/L	0	10	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	438729	7.27
Scandium	289167	307478	6.33
Germanium	59725	61802	3.48
Indium	466498	419369	-10.10
Bismuth	483064	419288	-13.20

+=high bias -=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997097 File : f0615097 Time : 07-JUN-2006 00:28
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3621, S3310

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.5605	0.4975	150.0	162.5	ug/L	8	10	
Antimony	0.2593	0.2372	150.0	147.5	ug/L	-2	10	
Arsenic	0.4322	0.3826	150.0	146.1	ug/L	-3	10	
Barium	0.1011	0.0892	150.0	149.0	ug/L	-1	10	
Beryllium	0.1312	0.1281	150.0	152.7	ug/L	2	10	
Cadmium	0.5540	0.3990	150.0	134.3	ug/L	-10	10	
Calcium	0.0204	0.0175	15000	15110	ug/L	1	10	
Chromium	3.9935	2.8823	150.0	148.5	ug/L	-1	10	
Cobalt	3.3573	3.0311	150.0	145.7	ug/L	-3	10	
Copper	0.8707	0.7180	150.0	152.8	ug/L	2	10	
Iron	0.0987	0.0847	15000	15280	ug/L	2	10	
Lead	0.9338	0.8360	150.0	142.2	ug/L	-5	10	
Magnesium	0.0679	0.0677	15000	16870	ug/L	12	10	c+ ***
Manganese	4.8501	3.9688	150.0	141.0	ug/L	-6	10	
Molybdenum	0.8724	0.7517	150.0	139.4	ug/L	-7	10	
Nickel	0.7992	0.6361	150.0	150.6	ug/L	0	10	
Potassium	0.7619	0.5341	15000	15480	ug/L	3	10	
Selenium	0.0417	0.0289	150.0	144.3	ug/L	-4	10	
Silver	2.2086	1.8577	150.0	137.6	ug/L	-8	10	
Sodium	1.1190	0.6944	15000	16510	ug/L	10	10	
Thallium	0.6690	0.6113	150.0	135.4	ug/L	-10	10	
Vanadium	3.6662	3.2597	150.0	141.4	ug/L	-6	10	
Zinc	1.1314	0.4574	150.0	150.6	ug/L	0	10	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	383973	-6.12
Scandium	289167	268938	-7.00
Germanium	59725	54816	-8.22
Indium	466498	376955	-19.19
Bismuth	483064	383230	-20.67

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56226997112 File : f0615112
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3621, S3310

IDF : 1.0
Time : 07-JUN-2006 01:52

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.5605	0.5021	150.0	164.1	ug/L	9	10	
Antimony	0.2593	0.2370	150.0	147.4	ug/L	-2	10	
Arsenic	0.4322	0.3789	150.0	144.7	ug/L	-4	10	
Barium	0.1011	0.0892	150.0	149.1	ug/L	-1	10	
Beryllium	0.1312	0.1286	150.0	153.3	ug/L	2	10	
Cadmium	0.5540	0.3948	150.0	132.8	ug/L	-11	10	c- ***
Calcium	0.0204	0.0175	15000	15110	ug/L	1	10	
Chromium	3.9935	2.9108	150.0	150.0	ug/L	0	10	
Cobalt	3.3573	3.0492	150.0	146.6	ug/L	-2	10	
Copper	0.8707	0.7072	150.0	150.5	ug/L	0	10	
Iron	0.0987	0.0844	15000	15240	ug/L	2	10	
Lead	0.9338	0.8353	150.0	142.1	ug/L	-5	10	
Magnesium	0.0679	0.0665	15000	16570	ug/L	10	10	
Manganese	4.8501	3.9761	150.0	141.3	ug/L	-6	10	
Molybdenum	0.8724	0.7511	150.0	139.3	ug/L	-7	10	
Nickel	0.7992	0.6421	150.0	152.0	ug/L	1	10	
Potassium	0.7619	0.5404	15000	15670	ug/L	4	10	
Selenium	0.0417	0.0286	150.0	142.6	ug/L	-5	10	
Silver	2.2086	1.8283	150.0	135.4	ug/L	-10	10	
Sodium	1.1190	0.6880	15000	16360	ug/L	9	10	
Thallium	0.6690	0.6117	150.0	135.5	ug/L	-10	10	
Vanadium	3.6662	3.2930	150.0	142.9	ug/L	-5	10	
Zinc	1.1314	0.4512	150.0	148.6	ug/L	-1	10	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	369084	-9.76
Scandium	289167	261829	-9.45
Germanium	59725	53130	-11.04
Indium	466498	360394	-22.74
Bismuth	483064	355399	-26.43

=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997121 File : f0615121 Time : 07-JUN-2006 02:43
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3621, S3310

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.5605	0.4901	150.0	159.9	ug/L	7	10	
Antimony	0.2593	0.2347	150.0	145.9	ug/L	-3	10	
Arsenic	0.4322	0.3755	150.0	143.4	ug/L	-4	10	
Barium	0.1011	0.0884	150.0	147.7	ug/L	-2	10	
Beryllium	0.1312	0.1284	150.0	153.0	ug/L	2	10	
Cadmium	0.5540	0.3897	150.0	131.1	ug/L	-13	10	c- ***
Calcium	0.0204	0.0175	15000	15090	ug/L	1	10	
Chromium	3.9935	2.8893	150.0	148.9	ug/L	-1	10	
Cobalt	3.3573	3.0268	150.0	145.5	ug/L	-3	10	
Copper	0.8707	0.7083	150.0	150.7	ug/L	0	10	
Iron	0.0987	0.0844	15000	15240	ug/L	2	10	
Lead	0.9338	0.8291	150.0	141.1	ug/L	-6	10	
Magnesium	0.0679	0.0664	15000	16560	ug/L	10	10	
Manganese	4.8501	3.9474	150.0	140.3	ug/L	-6	10	
Molybdenum	0.8724	0.7414	150.0	137.5	ug/L	-8	10	
Nickel	0.7992	0.6473	150.0	153.2	ug/L	2	10	
Potassium	0.7619	0.5302	15000	15370	ug/L	2	10	
Selenium	0.0417	0.0282	150.0	140.6	ug/L	-6	10	
Silver	2.2086	1.8088	150.0	134.0	ug/L	-11	10	c- ***
Sodium	1.1190	0.6917	15000	16450	ug/L	10	10	
Thallium	0.6690	0.6045	150.0	133.9	ug/L	-11	10	c- ***
Vanadium	3.6662	3.2874	150.0	142.6	ug/L	-5	10	
Zinc	1.1314	0.4462	150.0	146.9	ug/L	-2	10	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	382792	-6.41
Scandium	289167	269839	-6.68
Germanium	59725	54671	-8.46
Indium	466498	370146	-20.65
Bismuth	483064	361298	-25.21

=low bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997013 File : f0615013 Time : 06-JUN-2006 16:25
Cal : 56226997001 Caldate: 06-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2693]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2386]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	405030	-0.97
Scandium	289167	290944	0.61
Germanium	59725	59491	-0.39
Indium	466498	466354	-0.03
Bismuth	483064	479114	-0.82

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997029 File : f0615029 Time : 06-JUN-2006 17:55
Cal : 56226997001 Caldate: 06-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	[0.09908]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.006421]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.04606]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.3233]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1018]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	391597	-4.26
Scandium	289167	284453	-1.63
Germanium	59725	59742	0.03
Indium	466498	456195	-2.21
Bismuth	483064	471452	-2.40

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997039 File : f0615039 Time : 06-JUN-2006 19:04
Cal : 56226997001 Caldate: 06-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2136]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	430212	5.19
Scandium	289167	301447	4.25
Germanium	59725	61676	3.27
Indium	466498	453145	-2.86
Bismuth	483064	455232	-5.76

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997056 File : f0615056 Time : 06-JUN-2006 20:39
Cal : 56226997001 Caldate: 06-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.1666]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.3821]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1377]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	460363	12.56
Scandium	289167	310703	7.45
Germanium	59725	62428	4.53
Indium	466498	449303	-3.69
Bismuth	483064	447419	-7.38

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997070 File : f0615070 Time : 06-JUN-2006 21:57
Cal : 56226997001 Caldate: 06-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	[0.04637]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	[0.03154]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.02024]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.01066]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.009531]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.1656]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.02060]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2336]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	422919	3.40
Scandium	289167	296271	2.46
Germanium	59725	59815	0.15
Indium	466498	436500	-6.43
Bismuth	483064	431133	-10.75

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997082 File : f0615082 Time : 06-JUN-2006 23:04
Cal : 56226997001 Caldate: 06-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	[0.04740]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	[0.02410]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.02309]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.01294]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.02732]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.1123]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.01865]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2313]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	458286	12.05
Scandium	289167	311790	7.82
Germanium	59725	61314	2.66
Indium	466498	428779	-8.09
Bismuth	483064	421616	-12.72

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997100 File : f0615100 Time : 07-JUN-2006 00:45
Cal : 56226997001 Caldate: 06-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2198]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1683]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	399070	-2.43
Scandium	289167	274403	-5.11
Germanium	59725	54752	-8.33
Indium	466498	385914	-17.27
Bismuth	483064	380916	-21.15

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997114 File : f0615114 Time : 07-JUN-2006 02:04
Cal : 56226997001 Caldate: 06-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	[0.04644]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1326]	0.5000	0.09029	ug/L	!ib
Barium	[0.02871]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.03294]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.01546]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01407]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.01646]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2271]	0.5000	0.02100	ug/L	!ib
Vanadium	[0.1004]	0.5000	0.08283	ug/L	!ib
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	387552	-5.24
Scandium	289167	267846	-7.37
Germanium	59725	53474	-10.47
Indium	466498	376163	-19.36
Bismuth	483064	362491	-24.96

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997124 File : f0615124 Time : 07-JUN-2006 03:00
Cal : 56226997001 Caldate: 06-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1040]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	410496	0.37
Scandium	289167	275257	-4.81
Germanium	59725	55531	-7.02
Indium	466498	379673	-18.61
Bismuth	483064	363170	-24.82

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997014 File : f0615014 Time : 06-JUN-2006 16:30
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3612, S3310

Analyte	Quant	RL	Units	Flags
Antimony	2.128	0.2500	ug/L	
Arsenic	0.5787	0.5000	ug/L	
Barium	0.8640	0.2500	ug/L	
Beryllium	[0.01813]	0.2500	ug/L	
Cadmium	[0.1437]	0.2500	ug/L	
Chromium	0.9933	0.5000	ug/L	
Cobalt	2.719	0.2500	ug/L	
Copper	1.606	0.5000	ug/L	
Lead	1.201	0.2500	ug/L	
Manganese	0.8555	0.2500	ug/L	
Nickel	1.321	0.2500	ug/L	
Selenium	[0.3074]	0.5000	ug/L	
Silver	[0.1669]	0.2500	ug/L	
Thallium	[0.2344]	0.5000	ug/L	
Vanadium	[0.1434]	0.5000	ug/L	
Zinc	2.847	0.5000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	100900	ug/L	101
Calcium	300000	286300	ug/L	95
Iron	250000	231300	ug/L	93
Magnesium	100000	94830	ug/L	95
Molybdenum	2000	2022	ug/L	101
Potassium	100000	95770	ug/L	96
Sodium	250000	232800	ug/L	93

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	337424	-17.50
Scandium	289167	261874	-9.44
Germanium	59725	52719	-11.73
Indium	466498	388104	-16.80
Bismuth	483064	386523	-19.99

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997015 File : f0615015 Time : 06-JUN-2006 16:36
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3620, S3310

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	98660	ug/L	-1		
Arsenic	100.0	106.4	ug/L	6	20	
Cadmium	100.0	100.5	ug/L	1	20	
Calcium	300000	282900	ug/L	-6		
Chromium	200.0	205.7	ug/L	3	20	
Cobalt	200.0	196.8	ug/L	-2	20	
Copper	200.0	194.5	ug/L	-3	20	
Iron	250000	225100	ug/L	-10		
Magnesium	100000	92290	ug/L	-8		
Manganese	200.0	213.4	ug/L	7	20	
Molybdenum	2000	2009	ug/L	0		
Nickel	200.0	197.6	ug/L	-1	20	
Potassium	100000	94880	ug/L	-5		
Selenium	100.0	95.20	ug/L	-5	20	
Silver	50.00	50.23	ug/L	0	20	
Sodium	250000	228200	ug/L	-9		
Vanadium	200.0	209.7	ug/L	5	20	
Zinc	100.0	105.9	ug/L	6	20	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Scandium	289167	248483	-14.07
Germanium	59725	51041	-14.54

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997030 File : f0615030 Time : 06-JUN-2006 18:00
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3612, S3310

Analyte	Quant	RL	Units	Flags
Antimony	2.114	0.2500	ug/L	
Arsenic	[0.4367]	0.5000	ug/L	
Barium	0.9599	0.2500	ug/L	
Beryllium	[0.03220]	0.2500	ug/L	
Cadmium	[0.07788]	0.2500	ug/L	
Chromium	0.9488	0.5000	ug/L	
Cobalt	2.585	0.2500	ug/L	
Copper	1.549	0.5000	ug/L	
Lead	1.123	0.2500	ug/L	
Manganese	0.9190	0.2500	ug/L	
Nickel	1.260	0.2500	ug/L	
Selenium	[0.2489]	0.5000	ug/L	
Silver	[0.1499]	0.2500	ug/L	
Thallium	[0.1208]	0.5000	ug/L	
Vanadium	[0.1214]	0.5000	ug/L	
Zinc	2.570	0.5000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	100000	ug/L	100
Calcium	300000	286000	ug/L	95
Iron	250000	226900	ug/L	91
Magnesium	100000	93480	ug/L	93
Molybdenum	2000	2014	ug/L	101
Potassium	100000	95890	ug/L	96
Sodium	250000	229300	ug/L	92

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	322707	-21.10
Scandium	289167	251638	-12.98
Germanium	59725	52181	-12.63
Indium	466498	381882	-18.14
Bismuth	483064	380000	-21.34

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997031 File : f0615031 Time : 06-JUN-2006 18:06
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3620, S3310

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	99290	ug/L	-1		
Arsenic	100.0	105.9	ug/L	6	20	
Cadmium	100.0	97.57	ug/L	-2	20	
Calcium	300000	281900	ug/L	-6		
Chromium	200.0	212.5	ug/L	6	20	
Cobalt	200.0	196.1	ug/L	-2	20	
Copper	200.0	194.7	ug/L	-3	20	
Iron	250000	226200	ug/L	-10		
Magnesium	100000	92970	ug/L	-7		
Manganese	200.0	212.6	ug/L	6	20	
Molybdenum	2000	1984	ug/L	-1		
Nickel	200.0	197.2	ug/L	-1	20	
Potassium	100000	94210	ug/L	-6		
Selenium	100.0	95.84	ug/L	-4	20	
Silver	50.00	49.37	ug/L	-1	20	
Sodium	250000	231000	ug/L	-8		
Vanadium	200.0	220.4	ug/L	10	20	
Zinc	100.0	106.0	ug/L	6	20	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Scandium	289167	258074	-10.75
Germanium	59725	53085	-11.12

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997076 File : f0615076 Time : 06-JUN-2006 22:31
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3612, S3310

Analyte	Quant	RL	Units	Flags
Antimony	2.129	0.2500	ug/L	
Arsenic	[0.3958]	0.5000	ug/L	
Barium	1.058	0.2500	ug/L	
Beryllium	[0.03502]	0.2500	ug/L	
Cadmium	[0.08369]	0.2500	ug/L	
Chromium	1.075	0.5000	ug/L	
Cobalt	2.749	0.2500	ug/L	
Copper	1.637	0.5000	ug/L	
Lead	1.479	0.2500	ug/L	
Manganese	1.645	0.2500	ug/L	
Nickel	1.569	0.2500	ug/L	
Selenium	[0]	0.5000	ug/L	
Silver	[0.1345]	0.2500	ug/L	
Thallium	[0.03900]	0.5000	ug/L	
Vanadium	[0.1528]	0.5000	ug/L	
Zinc	3.254	0.5000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	105200	ug/L	105
Calcium	300000	281400	ug/L	94
Iron	250000	231900	ug/L	93
Magnesium	100000	98790	ug/L	99
Molybdenum	2000	1885	ug/L	94
Potassium	100000	95030	ug/L	95
Sodium	250000	246200	ug/L	98

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	365672	-10.59
Scandium	289167	276093	-4.52
Germanium	59725	54486	-8.77
Indium	466498	371501	-20.36
Bismuth	483064	352538	-27.02

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997077 File : f0615077 Time : 06-JUN-2006 22:36
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3620, S3310

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	102700	ug/L	3		
Arsenic	100.0	102.9	ug/L	3	20	
Cadmium	100.0	90.82	ug/L	-9	20	
Calcium	300000	272700	ug/L	-9		
Chromium	200.0	209.5	ug/L	5	20	
Cobalt	200.0	204.5	ug/L	2	20	
Copper	200.0	195.6	ug/L	-2	20	
Iron	250000	226700	ug/L	-9		
Magnesium	100000	96680	ug/L	-3		
Manganese	200.0	214.2	ug/L	7	20	
Molybdenum	2000	1863	ug/L	-7		
Nickel	200.0	198.6	ug/L	-1	20	
Potassium	100000	92800	ug/L	-7		
Selenium	100.0	92.60	ug/L	-7	20	
Silver	50.00	45.44	ug/L	-9	20	
Sodium	250000	239800	ug/L	-4		
Vanadium	200.0	221.3	ug/L	11	20	
Zinc	100.0	106.0	ug/L	6	20	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Scandium	289167	271540	-6.10
Germanium	59725	53545	-10.35

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997125 File : f0615125 Time : 07-JUN-2006 03:06
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3612, S3310

Analyte	Quant	RL	Units	Flags
Antimony	2.189	0.2500	ug/L	
Arsenic	0.5440	0.5000	ug/L	
Barium	0.9617	0.2500	ug/L	
Beryllium	[0.009309]	0.2500	ug/L	
Cadmium	[0.07816]	0.2500	ug/L	
Chromium	0.9383	0.5000	ug/L	
Cobalt	2.619	0.2500	ug/L	
Copper	1.594	0.5000	ug/L	
Lead	1.183	0.2500	ug/L	
Manganese	0.8678	0.2500	ug/L	
Nickel	1.533	0.2500	ug/L	
Selenium	[0.4716]	0.5000	ug/L	
Silver	[0.1123]	0.2500	ug/L	
Thallium	[0.1349]	0.5000	ug/L	
Vanadium	[0.1476]	0.5000	ug/L	
Zinc	2.663	0.5000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	111100	ug/L	111
Calcium	300000	284700	ug/L	95
Iron	250000	229000	ug/L	92
Magnesium	100000	105100	ug/L	105
Molybdenum	2000	1816	ug/L	91
Potassium	100000	98550	ug/L	99
Sodium	250000	259100	ug/L	104

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	334000	-18.34
Scandium	289167	249097	-13.86
Germanium	59725	49456	-17.19
Indium	466498	314078	-32.67
Bismuth	483064	288621	-40.25

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997126 File : f0615126 Time : 07-JUN-2006 03:11
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3620, S3310

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	107600	ug/L	8		
Arsenic	100.0	101.6	ug/L	2	20	
Cadmium	100.0	85.36	ug/L	-15	20	
Calcium	300000	282400	ug/L	-6		
Chromium	200.0	213.1	ug/L	7	20	
Cobalt	200.0	201.6	ug/L	1	20	
Copper	200.0	196.1	ug/L	-2	20	
Iron	250000	229600	ug/L	-8		
Magnesium	100000	100600	ug/L	1		
Manganese	200.0	216.5	ug/L	8	20	
Molybdenum	2000	1811	ug/L	-9		
Nickel	200.0	202.3	ug/L	1	20	
Potassium	100000	96190	ug/L	-4		
Selenium	100.0	87.24	ug/L	-13	20	
Silver	50.00	44.00	ug/L	-12	20	
Sodium	250000	253300	ug/L	1		
Vanadium	200.0	230.1	ug/L	15	20	
Zinc	100.0	103.0	ug/L	3	20	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Scandium	289167	253426	-12.36
Germanium	59725	48658	-18.53

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56226997 Instrument: MET05 Agilent ICP-MS Begun: 06-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
001	f0615001	TUN				06-JUN-2006 15:17	1.0	1.0		1	
002	f0615002	X	RINSE			06-JUN-2006 15:23	1.0			2	
003	f0615003	ICALBLK	STD-BLK			06-JUN-2006 15:29	1.0	1.0		2	
004	f0615004	ICAL	CS1			06-JUN-2006 15:34	1.0	1.0		3	
005	f0615005	ICAL	CS2			06-JUN-2006 15:40	1.0	1.0		4	
006	f0615006	ICAL	CS3			06-JUN-2006 15:45	1.0	1.0		5	
007	f0615007	ICAL	CS4			06-JUN-2006 15:51	1.0	1.0		6	
008	f0615008	ICAL	CS5			06-JUN-2006 15:57	1.0	1.0		7	
009	f0615009	ICAL	CS6			06-JUN-2006 16:02	1.0	1.0		8	
010	f0615010	ICV				06-JUN-2006 16:08	1.0	1.0	1	9	
011	f0615011	X	RINSE			06-JUN-2006 16:13	1.0			2	
012	f0615012	X				06-JUN-2006 16:19	1.0	1.0	1	2	
013	f0615013	ICB				06-JUN-2006 16:25	1.0	1.0	1	2	
014	f0615014	ICSA				06-JUN-2006 16:30	1.0	1.0	1	10 2	7:CA=286300
015	f0615015	ICSAB				06-JUN-2006 16:36	1.0	1.0	1	11 2	10:CA=282800
016	f0615016	X	RINSE			06-JUN-2006 16:41	1.0			2	
017	f0615017	X	RINSE			06-JUN-2006 16:47	1.0			2	
018	f0615018	SAMPLE	187072-010	114019	Filtra	06-JUN-2006 16:53	1.0	1.0	1	2	
019	f0615019	SAMPLE	187070-007	114018	Filtra	06-JUN-2006 16:58	1.0	1.0	1	2	5:NA=680400
020	f0615020	SAMPLE	187070-009	114018	Filtra	06-JUN-2006 17:04	5.0	1.0	1	2	4:NA=716200
021	f0615021	X	187070-007	114018	Filtra	06-JUN-2006 17:10	1.0			2	
022	f0615022	SAMPLE	187070-009	114018	Filtra	06-JUN-2006 17:15	5.0	1.0	1	2	4:NA=783200
023	f0615023	SAMPLE	187070-007	114018	Filtra	06-JUN-2006 17:21	1.0	1.0	1	2	5:NA=711000
024	f0615024	X	RINSE			06-JUN-2006 17:26	1.0			2	
025	f0615025	X				06-JUN-2006 17:32	1.0			12 2	
026	f0615026	CCV				06-JUN-2006 17:38	1.0	1.0	1	12 2	
027	f0615027	X	RINSE			06-JUN-2006 17:43	1.0			2	
028	f0615028	X				06-JUN-2006 17:49	1.0			2	
029	f0615029	CCB				06-JUN-2006 17:55	1.0	1.0	1	2	
030	f0615030	ICSA				06-JUN-2006 18:00	1.0	1.0	1	10 2	7:CA=286000
031	f0615031	ICSAB				06-JUN-2006 18:06	1.0	1.0	1	11 2	10:CA=281900

Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3602 13=S3621 14=S3085

Analyst: KCarlyn Date: 6/7/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56226997 Instrument: MET05 Agilent ICP-MS Begun: 06-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	f0615032	X	RINSE			06-JUN-2006 18:11	1.0					2	
033	f0615033	X	RINSE			06-JUN-2006 18:17	1.0					2	
034	f0615034	BLANK	QC342079	113955	Filtra	06-JUN-2006 18:22	1.0	1.0	6		1	2	
035	f0615035	BS	QC342080	113955	Filtra	06-JUN-2006 18:28	1.0	1.0			1	2	
036	f0615036	BSD	QC342081	113955	Filtra	06-JUN-2006 18:42	1.0	1.0			1	2	
037	f0615037	CCV				06-JUN-2006 18:48	1.0	1.0			1	13 2	
038	f0615038	X	RINSE			06-JUN-2006 18:53	1.0					2	
039	f0615039	CCB				06-JUN-2006 19:04	1.0	1.0			1	2	
040	f0615040	X				06-JUN-2006 19:10	1.0					2	
041	f0615041	MSS	187020-001	113955	Filtra	06-JUN-2006 19:15	1.0	1.0	4		1	2	4:NA=133500
042	f0615042	SER	QC342084	113955	Filtra	06-JUN-2006 19:21	5.0	1.0			1	2	3:NA=28020.0
043	f0615043	MS	QC342082	113955	Filtra	06-JUN-2006 19:27	1.0	1.0	2		1	2	6:NA=142400
044	f0615044	MSD	QC342083	113955	Filtra	06-JUN-2006 19:32	1.0	1.0	1		1	2	5:NA=139100
045	f0615045	PDS	QC342085	113955	Filtra	06-JUN-2006 19:38	1.0	1.0	1		1	14 2	5:NA=136000
046	f0615046	X	RINSE			06-JUN-2006 19:43	1.0					2	
047	f0615047	SAMPLE	187020-002	113955	Filtra	06-JUN-2006 19:49	1.0	1.0	4		1	2	4:NA=111500
048	f0615048	SAMPLE	187020-003	113955	Filtra	06-JUN-2006 19:54	1.0	1.0	4		1	2	4:NA=92740.0
049	f0615049	SAMPLE	187020-004	113955	Filtra	06-JUN-2006 20:00	1.0	1.0	3		1	2	3:NA=37370.0
050	f0615050	SAMPLE	187020-005	113955	Filtra	06-JUN-2006 20:06	1.0	1.0	4		1	2	4:NA=84550.0
051	f0615051	SAMPLE	187020-006	113955	Filtra	06-JUN-2006 20:11	1.0	1.0	4		1	2	4:NA=84460.0
052	f0615052	X	RINSE			06-JUN-2006 20:17	1.0					2	
053	f0615053	CCV				06-JUN-2006 20:22	1.0	1.0			1	13 2	
054	f0615054	X	RINSE			06-JUN-2006 20:28	1.0					2	
055	f0615055	X				06-JUN-2006 20:33	1.0					2	
056	f0615056	CCB				06-JUN-2006 20:39	1.0	1.0			1	2	
057	f0615057	SAMPLE	187020-007	113955	Filtra	06-JUN-2006 20:45	1.0	1.0	4		1	2	4:NA=81030.0
058	f0615058	SAMPLE	187020-008	113955	Filtra	06-JUN-2006 20:50	1.0	1.0	4		1	2	4:NA=82040.0
059	f0615059	SAMPLE	187020-009	113955	Filtra	06-JUN-2006 20:56	1.0	1.0	3		1	2	3:NA=103800
060	f0615060	SAMPLE	187020-010	113955	Filtra	06-JUN-2006 21:01	1.0	1.0	3		1	2	3:NA=99720.0
061	f0615061	SAMPLE	187020-011	113955	Filtra	06-JUN-2006 21:07	1.0	1.0	1		1	2	1:NA=35050.0
062	f0615062	SAMPLE	187020-012	113955	Filtra	06-JUN-2006 21:13	1.0	1.0	3		1	2	3:NA=58700.0

Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3602 13=S3621 14=S3085

Analyst: K Carlyn Date: 6/7/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56226997 Instrument: MET05 Agilent ICP-MS Begun: 06-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
063	f0615063	SAMPLE	187020-013	113955	Filtra	06-JUN-2006 21:18	1.0	1.0	2		1	2	2:MG=84350.0
064	f0615064	SAMPLE	187020-014	113955	Filtra	06-JUN-2006 21:24	1.0	1.0	4		1	2	4:NA=203400
065	f0615065	SAMPLE	187020-015	113955	Filtra	06-JUN-2006 21:29	1.0	1.0	3		1	2	3:NA=228100
066	f0615066	SAMPLE	187020-011	113955	Water	06-JUN-2006 21:35	1.0	1.0	3		1	2	3:NA=33390.0
067	f0615067	X	RINSE			06-JUN-2006 21:40	1.0					2	
068	f0615068	CCV				06-JUN-2006 21:46	1.0	1.0			1	13 2	
069	f0615069	X	RINSE			06-JUN-2006 21:52	1.0					2	
070	f0615070	CCB				06-JUN-2006 21:57	1.0	1.0			1	2	
071	f0615071	X				06-JUN-2006 22:03	1.0					2	
072	f0615072	SAMPLE	187020-012	113955	Water	06-JUN-2006 22:09	1.0	1.0	6		1	2	5:NA=55760.0
073	f0615073	SAMPLE	187020-013	113955	Water	06-JUN-2006 22:14	1.0	1.0	5		1	2	4:MG=84280.0
074	f0615074	SAMPLE	187020-014	113955	Water	06-JUN-2006 22:20	1.0	1.0	7		1	2	6:NA=189000
075	f0615075	SAMPLE	187020-015	113955	Water	06-JUN-2006 22:25	1.0	1.0	9		1	2	8:NA=224500
076	f0615076	ICSA				06-JUN-2006 22:31	1.0	1.0			1	10 2	7:CA=281400
077	f0615077	ICSAB				06-JUN-2006 22:36	1.0	1.0			1	11 2	11:CA=272780
078	f0615078	X	RINSE			06-JUN-2006 22:42	1.0					2	
079	f0615079	X	RINSE			06-JUN-2006 22:47	1.0					2	
080	f0615080	CCV				06-JUN-2006 22:53	1.0	1.0	4		1	13 2	
081	f0615081	X	RINSE			06-JUN-2006 22:58	1.0					2	
082	f0615082	CCB				06-JUN-2006 23:04	1.0	1.0			1	2	
083	f0615083	X				06-JUN-2006 23:10	1.0					2	
084	f0615084	BLANK	QC342089	113957	Filtra	06-JUN-2006 23:15	1.0	1.0	1		1	2	
085	f0615085	BS	QC342090	113957	Filtra	06-JUN-2006 23:21	1.0	1.0	4		1	2	
086	f0615086	BSD	QC342091	113957	Filtra	06-JUN-2006 23:27	1.0	1.0	4		1	2	
087	f0615087	X	RINSE			06-JUN-2006 23:32	1.0					2	
088	f0615088	MSS	187112-002	113957	Filtra	06-JUN-2006 23:38	1.0	1.0	4		1	2	3:NA=55770.0
089	f0615089	SER	QC342094	113957	Filtra	06-JUN-2006 23:44	5.0	1.0	1		1	2	
090	f0615090	MS	QC342092	113957	Filtra	06-JUN-2006 23:49	1.0	1.0	1		1	2	3:NA=64380.0
091	f0615091	MSD	QC342093	113957	Filtra	06-JUN-2006 23:55	1.0	1.0	1		1	2	3:NA=67400.0
092	f0615092	PDS	QC342095	113957	Filtra	07-JUN-2006 00:00	1.0	1.0	1		1	14 2	3:NA=64650.0
093	f0615093	X	RINSE			07-JUN-2006 00:06	1.0					2	

Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3602 13=S3621 14=S3085

Analyst: KCarlyn Date: 6/7/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56226997 Instrument: MET05 Agilent ICP-MS Begun: 06-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
094	f0615094	SAMPLE	187112-003	113957	Filtra	07-JUN-2006 00:11	1.0	1.0	4		1	2	3:MG=376100
095	f0615095	SAMPLE	187112-004	113957	Filtra	07-JUN-2006 00:17	1.0	1.0	4		1	2	4:MG=211300
096	f0615096	X	RINSE			07-JUN-2006 00:23	1.0					2	
097	f0615097	CCV				07-JUN-2006 00:28	1.0	1.0	1		1	13 2	
098	f0615098	X	RINSE			07-JUN-2006 00:34	1.0					2	
099	f0615099	X				07-JUN-2006 00:39	1.0					2	
100	f0615100	CCB				07-JUN-2006 00:45	1.0	1.0			1	2	
101	f0615101	SAMPLE	187112-005	113957	Water	07-JUN-2006 00:51	1.0	1.0	1		1	2	5:NA=149200
102	f0615102	SAMPLE	187112-006	113957	Filtra	07-JUN-2006 00:56	1.0	1.0	3		1	2	2:NA=220300
103	f0615103	SAMPLE	187112-007	113957	Filtra	07-JUN-2006 01:02	1.0	1.0	3		1	2	2:NA=238500
104	f0615104	SAMPLE	187112-008	113957	Filtra	07-JUN-2006 01:08	1.0	1.0	3		1	2	2:NA=211400
105	f0615105	SAMPLE	187112-009	113957	Filtra	07-JUN-2006 01:13	1.0	1.0	3		1	2	2:NA=228400
106	f0615106	SAMPLE	187112-010	113957	Filtra	07-JUN-2006 01:19	1.0	1.0	3		1	2	2:NA=130800
107	f0615107	SAMPLE	187112-011	113957	Filtra	07-JUN-2006 01:24	1.0	1.0	1		1	2	
108	f0615108	SAMPLE	187112-012	113957	Filtra	07-JUN-2006 01:30	1.0	1.0	5		1	2	4:NA=210700
109	f0615109	SAMPLE	187112-013	113957	Water	07-JUN-2006 01:36	1.0	1.0	2		1	2	
110	f0615110	SAMPLE	187137-001	113957	Filtra	07-JUN-2006 01:41	1.0	1.0	1		1	2	
111	f0615111	X	RINSE			07-JUN-2006 01:47	1.0					2	
112	f0615112	CCV				07-JUN-2006 01:52	1.0	1.0	1		1	13 2	
113	f0615113	X	RINSE			07-JUN-2006 01:58	1.0					2	
114	f0615114	CCB				07-JUN-2006 02:04	1.0	1.0			1	2	
115	f0615115	X				07-JUN-2006 02:09	1.0					2	
116	f0615116	SAMPLE	187020-017	113957	Filtra	07-JUN-2006 02:15	1.0	1.0	6		1	2	3:NA=64160.0
117	f0615117	SAMPLE	187020-018	113957	Filtra	07-JUN-2006 02:21	1.0	1.0	6		1	2	3:NA=68590.0
118	f0615118	SAMPLE	187020-019	113957	Filtra	07-JUN-2006 02:26	1.0	1.0	6		1	2	3:NA=79910.0
119	f0615119	SAMPLE	187020-020	113957	Filtra	07-JUN-2006 02:32	1.0	1.0	6		1	2	3:NA=79470.0
120	f0615120	X	RINSE			07-JUN-2006 02:37	1.0					2	
121	f0615121	CCV				07-JUN-2006 02:43	1.0	1.0	3		1	13 2	
122	f0615122	X	RINSE			07-JUN-2006 02:49	1.0					2	
123	f0615123	X				07-JUN-2006 02:54	1.0					2	
124	f0615124	CCB				07-JUN-2006 03:00	1.0	1.0			1	2	

Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3602 13=S3621 14=S3085

Analyst: K Carlyn Date: 6/7/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56226997 Instrument: MET05 Agilent ICP-MS Begun: 06-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
125	f0615125	ICSA				07-JUN-2006 03:06	1.0	1.0			1	10 2	7:CA=284700
126	f0615126	ICSAB				07-JUN-2006 03:11	1.0	1.0			1	11 2	12:CA=282400

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Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3602 13=S3621 14=S3085

Analyst: K Carlyon Date: 6/7/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET08 Reviewer: ---
Calnum : 86228386001 Date : 07-JUN-2006 14:26
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	060706ar.txt	86228386002	CRIM08	07-JUN-2006 14:30	S3580
L2	060706ar.txt	86228386003	CS100	07-JUN-2006 14:34	S3582
L3	060706ar.txt	86228386004	CS1K	07-JUN-2006 14:37	S3581
L4	060706ar.txt	86228386005	CS10K	07-JUN-2006 14:40	S3583
L5	060706ar.txt	86228386006	CS100K	07-JUN-2006 14:42	S3584

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	35.632	35.388	35.227	35.226		LOR0	0.00000	0.02839		35.368	1.000	0.995	
Arsenic	A	19.617	21.304	21.092	20.987		LOR0	0.00000	0.04765		20.750	1.000	0.995	
Barium	A	432.54	398.04	392.94	375.03		LOR0	0.00000	0.00267		399.64	1.000	0.995	
Beryllium	A	3414.2	3382.1	3379.0			LOR0	0.00000	2.96E-4		3391.8	1.000	0.995	
Boron	A	186.19		190.90	192.17		LOR0	0.00000	0.00520		189.75	1.000	0.995	
Cadmium	A	332.79	328.18	328.09	313.02		LOR0	0.00000	0.00319		325.52	1.000	0.995	
Chromium	A	81.487	82.089	82.001	79.203		LOR0	0.00000	0.01262		81.195	1.000	0.995	
Cobalt	A	109.20	107.99	108.71	106.62		LOR0	0.00000	0.00938		108.13	1.000	0.995	
Copper	A	669.55	635.63	635.19	622.05		LOR0	0.00000	0.00161		640.61	1.000	0.995	
Lead	A	53.641	50.224	50.381	48.596		LOR0	0.00000	0.02057		50.710	1.000	0.995	
Manganese	A	895.27	876.73	872.11	823.39		LOR0	0.00000	0.00121		866.88	1.000	0.995	
Molybdenum	A	37.365	38.398	38.497	37.735		LOR0	0.00000	0.02650		37.999	1.000	0.995	
Nickel	A	58.464	57.058	57.254	55.613		LOR0	0.00000	0.01798		57.097	1.000	0.995	
Selenium	A	18.471	21.904	22.125	22.037		LOR0	0.00000	0.04538		21.134	1.000	0.995	
Silver	A	388.25	391.08	396.30	402.92		LOR0	0.00000	0.00249		394.64	1.000	0.995	
Thallium	A	16.007	19.267	19.389	18.837		LOR0	0.00000	0.05307		18.375	1.000	0.995	
Tin	A	21.258	20.682	20.800	20.590		LOR0	0.00000	0.04856		20.833	1.000	0.995	
Titanium	A	944.09	981.23	974.90	894.59		LOR0	0.00000	0.00112		948.70	1.000	0.995	
Vanadium	A	130.68	120.48	121.09	121.88		LOR0	0.00000	0.00821		123.53	1.000	0.995	
Zinc	A	135.25	155.58	121.37	118.70		LOR0	0.00000	0.00842		132.72	1.000	0.995	
Aluminum	R	1.2010		1.2551	1.2193	1.2084	LOR0	0.00000	0.82749		1.2209	1.000	0.995	
Calcium	R	13.073		11.493	10.362	9.8324	LOR0	0.00000	0.10165		11.190	1.000	0.995	
Iron	R	7.7765		7.8341	7.6982	7.0793	LOR0	0.00000	0.14113		7.5970	1.000	0.995	
Magnesium	R	2.0883		2.0756	2.0317	1.9213	LOR0	0.00000	0.52019		2.0292	1.000	0.995	
Potassium	R	5.0136		5.1422	5.1748	5.1567	LOR0	0.00000	0.19392		5.1218	1.000	0.995	
Sodium	R	10.416		10.814	10.170	9.7199	LOR0	0.00000	0.10283		10.280	1.000	0.995	

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Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

86228386001

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/7/2006 2:26:44 PM
Data Type: Reprocessed on 6/7/2006 3:13:18 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	155.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	1564.1	278.66	17.82%	[0.00]	ug/L
Al 308.215 R	106.5	2.85	2.68%	[0.00]	ug/L
As 188.979	4.4	30.08	677.09%	[0.00]	ug/L
B 249.677	2340.3	75.22	3.21%	[0.00]	ug/L
Ba 233.527	-103.5	18.37	17.75%	[0.00]	ug/L
Be 313.107	2173.6	176.74	8.13%	[0.00]	ug/L
Ca 315.887 R	369.6	2.27	0.61%	[0.00]	ug/L
Cd 214.440	-7.1	9.01	127.19%	[0.00]	ug/L
Co 228.616	-231.8	10.24	4.42%	[0.00]	ug/L
Cr 267.716	-213.7	5.07	2.37%	[0.00]	ug/L
Cu 324.752	-468.3	51.00	10.89%	[0.00]	ug/L
Fe 238.204 R	82.5	2.83	3.43%	[0.00]	ug/L
K 766.490 R	-5879.4	273.47	4.65%	[0.00]	ug/L
Mg 279.077 R	-88.1	7.37	8.36%	[0.00]	ug/L
Mn 257.610	58.5	4.69	8.03%	[0.00]	ug/L
Mo 202.031	-18.7	6.89	36.95%	[0.00]	ug/L
Na 589.592 R	1276.6	85.94	6.73%	[0.00]	ug/L
Ni 231.604	324.6	13.34	4.11%	[0.00]	ug/L
Pb 220.353	-26.7	14.91	55.78%	[0.00]	ug/L
Sb 206.836	571.7	51.28	8.97%	[0.00]	ug/L
Se 196.026	-69.3	6.09	8.79%	[0.00]	ug/L
Ti 334.940 R	355.0	114.02	32.12%	[0.00]	ug/L
Tl 190.801	148.7	16.48	11.08%	[0.00]	ug/L
V 292.402	-1540.2	21.06	1.37%	[0.00]	ug/L
Zn 206.200	-1012.0	1.56	0.15%	[0.00]	ug/L
Sn 189.927	8.4	2.39	28.38%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 6/7/2006 2:30:46 PM
Data Type: Reprocessed on 6/7/2006 3:13:21 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	152.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	1626250.4	10929.96	0.67%	100.0	%
Y	242559.9	3791.12	1.56%	100.0	%
Ag 328.068†	1941.3	91.63	4.72%	[5.0]	ug/L
Al 308.215 R†	120.1	1.29	1.08%	[100]	ug/L
As 188.979†	98.1	18.52	18.88%	[5.0]	ug/L
B 249.677†	18619.0	199.27	1.07%	[100]	ug/L
Ba 233.527†	2162.7	20.43	0.94%	[5.0]	ug/L
Be 313.107†	6828.4	35.24	0.52%	[2.0]	ug/L
Ca 315.887 R†	2614.7	67.26	2.57%	[200]	ug/L
Cd 214.440†	1664.0	33.30	2.00%	[5.0]	ug/L
Co 228.616†	546.0	20.52	3.76%	[5.0]	ug/L
Cr 267.716†	407.4	7.92	1.94%	[5.0]	ug/L
Cu 324.752†	3347.8	123.77	3.70%	[5.0]	ug/L
Fe 238.204 R†	777.7	12.87	1.66%	[100]	ug/L
K 766.490 R†	2506.8	41.78	1.67%	[500]	ug/L
Mg 279.077 R†	417.7	2.26	0.54%	[200]	ug/L
Mn 257.610†	4476.3	47.29	1.06%	[5.0]	ug/L
Mo 202.031†	186.8	4.44	2.38%	[5.0]	ug/L
Na 589.592 R†	5208.0	169.54	3.26%	[500]	ug/L
Ni 231.604†	292.3	8.15	2.79%	[5.0]	ug/L
Pb 220.353†	160.9	13.26	8.24%	[3.0]	ug/L
Sb 206.836†	178.2	10.22	5.74%	[5.0]	ug/L
Se 196.026†	92.4	19.46	21.07%	[5.0]	ug/L
Ti 334.940 R†	9440.9	82.35	0.87%	[10]	ug/L
Tl 190.801†	80.0	4.71	5.89%	[5.0]	ug/L
V 292.402†	653.4	28.04	4.29%	[5.0]	ug/L
Zn 206.200†	2705.0	17.47	0.65%	[20]	ug/L
Sn 189.927†	850.3	17.24	2.03%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/7/2006 2:34:51 PM
Data Type: Reprocessed on 6/7/2006 3:13:22 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	1638572.6	2598.44	0.16%	100.8	%
Y	260163.7	2739.25	1.05%	107.3	%
Ag 328.068†	39108.1	145.14	0.37%	[100]	ug/L
As 188.979†	2130.4	39.22	1.84%	[100]	ug/L
Ba 233.527†	39803.9	58.52	0.15%	[100]	ug/L
Be 313.107†	338213.6	1845.47	0.55%	[100]	ug/L
Cd 214.440†	32818.1	88.23	0.27%	[100]	ug/L
Co 228.616†	10799.4	47.48	0.44%	[100]	ug/L
Cr 267.716†	8208.9	14.72	0.18%	[100]	ug/L
Cu 324.752†	63562.6	361.98	0.57%	[100]	ug/L
Mn 257.610†	87673.2	57.35	0.07%	[100]	ug/L
Mo 202.031†	3839.8	29.27	0.76%	[100]	ug/L
Ni 231.604†	5705.8	16.32	0.29%	[100]	ug/L
Pb 220.353†	5022.4	15.22	0.30%	[100]	ug/L
Sb 206.836†	3538.8	44.69	1.26%	[100]	ug/L
Se 196.026†	2190.4	47.74	2.18%	[100]	ug/L
Ti 334.940 R†	98122.6	387.63	0.40%	[100]	ug/L
Tl 190.801†	1926.7	15.13	0.79%	[100]	ug/L
V 292.402†	12048.5	50.28	0.42%	[100]	ug/L
Zn 206.200†	15558.2	92.40	0.59%	[100]	ug/L
Sn 189.927†	2068.2	7.26	0.35%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/7/2006 2:37:55 PM
Data Type: Reprocessed on 6/7/2006 3:13:23 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	155.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	1670031.0	6934.36	0.42%	102.7	%
Y	249594.1	9545.75	3.82%	102.9	%
Ag 328.068†	396300.8	590.00	0.15%	[1000]	ug/L
Al 308.215 R†	1255.1	110.41	8.80%	[1000]	ug/L
As 188.979†	21091.7	239.19	1.13%	[1000]	ug/L
B 249.677†	190897.6	846.49	0.44%	[1000]	ug/L
Ba 233.527†	392942.7	2170.80	0.55%	[1000]	ug/L
Be 313.107†	3378971.4	10842.56	0.32%	[1000]	ug/L
Ca 315.887 R†	11492.8	576.61	5.02%	[1000]	ug/L
Cd 214.440†	328090.4	1726.39	0.53%	[1000]	ug/L
Co 228.616†	108712.8	1121.40	1.03%	[1000]	ug/L
Cr 267.716†	82001.3	846.27	1.03%	[1000]	ug/L
Cu 324.752†	635190.3	1417.79	0.22%	[1000]	ug/L
Fe 238.204 R†	7834.1	372.59	4.76%	[1000]	ug/L
K 766.490 R†	5142.2	121.18	2.36%	[1000]	ug/L
Mg 279.077 R†	2075.6	112.31	5.41%	[1000]	ug/L
Mn 257.610†	872109.5	3692.88	0.42%	[1000]	ug/L
Mo 202.031†	38497.1	356.18	0.93%	[1000]	ug/L
Na 589.592 R†	10813.6	559.14	5.17%	[1000]	ug/L
Ni 231.604†	57254.3	584.27	1.02%	[1000]	ug/L
Pb 220.353†	50380.7	671.78	1.33%	[1000]	ug/L
Sb 206.836†	35226.8	282.50	0.80%	[1000]	ug/L
Se 196.026†	22124.9	399.41	1.81%	[1000]	ug/L
Ti 334.940 R†	974902.7	4007.52	0.41%	[1000]	ug/L
Tl 190.801†	19389.1	291.24	1.50%	[1000]	ug/L
V 292.402†	121093.0	1596.99	1.32%	[1000]	ug/L
Zn 206.200†	121365.8	1114.90	0.92%	[1000]	ug/L
Sn 189.927†	20800.0	269.56	1.30%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/7/2006 2:40:09 PM
Data Type: Reprocessed on 6/7/2006 3:13:24 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	155.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	1673780.8	11835.42	0.71%	102.9	%
Y	252484.2	6642.56	2.63%	104.1	%
Ag 328.068†	805834.8	5920.50	0.73%	[2000]	ug/L
Al 308.215 R†	12192.8	131.64	1.08%	[10000]	ug/L
As 188.979†	209866.2	774.08	0.37%	[10000]	ug/L
B 249.677†	1921707.5	19951.75	1.04%	[10000]	ug/L
Ba 233.527†	3750256.4	15734.69	0.42%	[10000]	ug/L
Ca 315.887 R†	103616.6	1171.10	1.13%	[10000]	ug/L
Cd 214.440†	3130174.6	6580.23	0.21%	[10000]	ug/L
Co 228.616†	1066209.2	10693.08	1.00%	[10000]	ug/L
Cr 267.716†	792032.0	5456.62	0.69%	[10000]	ug/L
Cu 324.752†	6220502.7	23453.76	0.38%	[10000]	ug/L
Fe 238.204 R†	76981.8	662.17	0.86%	[10000]	ug/L
K 766.490 R†	51747.7	846.22	1.64%	[10000]	ug/L
Mg 279.077 R†	20317.4	193.92	0.95%	[10000]	ug/L
Mn 257.610†	8233924.0	21619.75	0.26%	[10000]	ug/L
Mo 202.031†	377349.4	3002.34	0.80%	[10000]	ug/L
Na 589.592 R†	101704.0	1145.41	1.13%	[10000]	ug/L
Ni 231.604†	556128.4	4022.06	0.72%	[10000]	ug/L
Pb 220.353†	485956.7	3311.48	0.68%	[10000]	ug/L
Sb 206.836†	352263.5	2996.51	0.85%	[10000]	ug/L
Se 196.026†	220369.1	628.13	0.29%	[10000]	ug/L
Ti 334.940 R†	8945873.6	40471.58	0.45%	[10000]	ug/L
Tl 190.801†	188374.6	844.60	0.45%	[10000]	ug/L
V 292.402†	1218765.0	7177.15	0.59%	[10000]	ug/L
Zn 206.200†	1187036.6	17368.12	1.46%	[10000]	ug/L
Sn 189.927†	205896.1	1321.22	0.64%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 6/7/2006 2:42:57 PM
Data Type: Reprocessed on 6/7/2006 3:13:25 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	1590737.8	14999.88	0.94%	97.82	%
Y	239375.7	4138.68	1.73%	98.69	%
Al 308.215 R†	120835.7	367.51	0.30%	[100000]	ug/L
Ca 315.887 R†	983243.9	3036.17	0.31%	[100000]	ug/L
Fe 238.204 R†	707926.7	2401.83	0.34%	[100000]	ug/L
K 766.490 R†	515670.3	1663.13	0.32%	[100000]	ug/L
Mg 279.077 R†	192125.5	787.13	0.41%	[100000]	ug/L
Na 589.592 R†	971990.3	5261.84	0.54%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	401.6	0.00000	0.999978	
Al 308.215 R	4	Lin Thru 0	0.0	1.208	0.00000	1.000000	
As 188.979	4	Lin Thru 0	0.0	20.99	0.00000	1.000000	
B 249.677	3	Lin Thru 0	0.0	192.2	0.00000	1.000000	
Ba 233.527	4	Lin Thru 0	0.0	375.2	0.00000	0.999989	
Be 313.107	3	Lin Thru 0	0.0	3379	0.00000	1.000000	
Ca 315.887 R	4	Lin Thru 0	0.0	9.838	0.00000	0.999984	
Cd 214.440	4	Lin Thru 0	0.0	313.2	0.00000	0.999989	
Co 228.616	4	Lin Thru 0	0.0	106.6	0.00000	0.999998	
Cr 267.716	4	Lin Thru 0	0.0	79.23	0.00000	0.999994	
Cu 324.752	4	Lin Thru 0	0.0	622.2	0.00000	0.999998	
Fe 238.204 R	4	Lin Thru 0	0.0	7.085	0.00000	0.999962	
K 766.490 R	4	Lin Thru 0	0.0	5.157	0.00000	1.000000	
Mg 279.077 R	4	Lin Thru 0	0.0	1.922	0.00000	0.999983	
Mn 257.610	4	Lin Thru 0	0.0	823.9	0.00000	0.999983	
Mo 202.031	4	Lin Thru 0	0.0	37.74	0.00000	0.999998	
Na 589.592 R	4	Lin Thru 0	0.0	9.724	0.00000	0.999989	
Ni 231.604	4	Lin Thru 0	0.0	55.63	0.00000	0.999996	
Pb 220.353	4	Lin Thru 0	0.0	48.61	0.00000	0.999993	
Sb 206.836	4	Lin Thru 0	0.0	35.23	0.00000	1.000000	
Se 196.026	4	Lin Thru 0	0.0	22.04	0.00000	1.000000	
Ti 334.940 R	4	Lin Thru 0	0.0	895.4	0.00000	0.999960	
Tl 190.801	4	Lin Thru 0	0.0	18.84	0.00000	0.999996	
V 292.402	4	Lin Thru 0	0.0	121.9	0.00000	1.000000	
Zn 206.200	4	Lin Thru 0	0.0	118.7	0.00000	0.999993	
Sn 189.927	4	Lin Thru 0	0.0	20.59	0.00000	0.999999	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86228386007 File : 060706ar.txt Time : 07-JUN-2006 14:45
Cal : 86228386001 Caldate: 07-JUN-2006
Standards: S3541

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	35.368	35.255	5000	5004	ug/L	0	10	
Arsenic	A	20.750	21.289	5000	5072	ug/L	1	10	
Barium	A	399.64	385.30	5000	5134	ug/L	3	10	
Beryllium	A	3391.8	3417.3	500.0	505.7	ug/L	1	10	
Boron	A	189.75	195.33	5000	5083	ug/L	2	10	
Cadmium	A	325.52	320.74	5000	5121	ug/L	2	10	
Chromium	A	81.195	79.115	5000	4993	ug/L	0	10	
Cobalt	A	108.13	104.62	5000	4895	ug/L	-2	10	
Copper	A	640.61	623.52	5000	5011	ug/L	0	10	
Lead	A	50.710	48.045	5000	4941	ug/L	-1	10	
Manganese	A	866.88	833.05	5000	5056	ug/L	1	10	
Molybdenum	A	37.999	37.911	5000	5022	ug/L	0	10	
Nickel	A	57.097	54.835	5000	4929	ug/L	-1	10	
Selenium	A	21.134	22.147	5000	5025	ug/L	0	10	
Silver	A	394.64	390.78	1000	973.1	ug/L	-3	10	
Thallium	A	18.375	18.675	5000	4955	ug/L	-1	10	
Tin	A	20.833	20.412	5000	4956	ug/L	-1	10	
Titanium	A	948.70	925.16	5000	5166	ug/L	3	10	
Vanadium	A	123.53	120.98	5000	4964	ug/L	-1	10	
Zinc	A	132.72	117.73	5000	4958	ug/L	-1	10	
Aluminum	R	1.2209	1.1822	20000	19570	ug/L	-2	10	
Calcium	R	11.190	9.8000	20000	19920	ug/L	0	10	
Iron	R	7.5970	7.1341	20000	20140	ug/L	1	10	
Magnesium	R	2.0292	1.9128	20000	19900	ug/L	0	10	
Potassium	R	5.1218	4.9867	20000	19340	ug/L	-3	10	
Sodium	R	10.280	9.7300	20000	20010	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1653402	1.67

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86228386027 File : 060706ar.txt Time : 07-JUN-2006 16:07
Cal : 86228386001 Caldate: 07-JUN-2006
Standards: S3543

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	35.368	36.551	5000	5188	ug/L	4	10	
Arsenic	A	20.750	22.022	5000	5246	ug/L	5	10	
Barium	A	399.64	390.88	5000	5209	ug/L	4	10	
Beryllium	A	3391.8	3462.5	500.0	512.4	ug/L	2	10	
Boron	A	189.75	197.59	5000	5141	ug/L	3	10	
Cadmium	A	325.52	330.03	5000	5269	ug/L	5	10	
Chromium	A	81.195	81.150	5000	5121	ug/L	2	10	
Cobalt	A	108.13	106.75	5000	4995	ug/L	0	10	
Copper	A	640.61	628.88	5000	5054	ug/L	1	10	
Lead	A	50.710	49.637	5000	5105	ug/L	2	10	
Manganese	A	866.88	843.57	5000	5120	ug/L	2	10	
Molybdenum	A	37.999	38.750	5000	5133	ug/L	3	10	
Nickel	A	57.097	56.650	5000	5092	ug/L	2	10	
Selenium	A	21.134	23.145	5000	5251	ug/L	5	10	
Silver	A	394.64	398.38	1000	992.1	ug/L	-1	10	
Thallium	A	18.375	19.093	5000	5066	ug/L	1	10	
Tin	A	20.833	21.183	5000	5144	ug/L	3	10	
Titanium	A	948.70	933.13	5000	5211	ug/L	4	10	
Vanadium	A	123.53	122.36	5000	5020	ug/L	0	10	
Zinc	A	132.72	121.55	5000	5119	ug/L	2	10	
Aluminum	R	1.2209	1.1629	20000	19250	ug/L	-4	10	
Calcium	R	11.190	9.6799	20000	19680	ug/L	-2	10	
Iron	R	7.5970	6.9003	20000	19480	ug/L	-3	10	
Magnesium	R	2.0292	1.8933	20000	19700	ug/L	-2	10	
Potassium	R	5.1218	5.2280	20000	20280	ug/L	1	10	
Sodium	R	10.280	10.100	20000	20770	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1677481	3.15

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86228386041 File : 060706ar.txt Time : 07-JUN-2006 17:02
Cal : 86228386001 Caldate: 07-JUN-2006
Standards: S3543

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	35.368	36.467	5000	5176	ug/L	4	10	
Arsenic	A	20.750	21.978	5000	5236	ug/L	5	10	
Barium	A	399.64	391.64	5000	5219	ug/L	4	10	
Beryllium	A	3391.8	3480.0	500.0	515.0	ug/L	3	10	
Boron	A	189.75	198.21	5000	5157	ug/L	3	10	
Cadmium	A	325.52	332.55	5000	5309	ug/L	6	10	
Chromium	A	81.195	80.443	5000	5076	ug/L	2	10	
Cobalt	A	108.13	107.35	5000	5023	ug/L	0	10	
Copper	A	640.61	628.42	5000	5050	ug/L	1	10	
Lead	A	50.710	49.593	5000	5101	ug/L	2	10	
Manganese	A	866.88	844.92	5000	5128	ug/L	3	10	
Molybdenum	A	37.999	38.487	5000	5099	ug/L	2	10	
Nickel	A	57.097	56.358	5000	5065	ug/L	1	10	
Selenium	A	21.134	23.126	5000	5247	ug/L	5	10	
Silver	A	394.64	394.65	1000	982.8	ug/L	-2	10	
Thallium	A	18.375	18.985	5000	5038	ug/L	1	10	
Tin	A	20.833	21.128	5000	5130	ug/L	3	10	
Titanium	A	948.70	933.81	5000	5215	ug/L	4	10	
Vanadium	A	123.53	122.46	5000	5024	ug/L	0	10	
Zinc	A	132.72	122.54	5000	5160	ug/L	3	10	
Aluminum	R	1.2209	1.1255	20000	18630	ug/L	-7	10	
Calcium	R	11.190	9.4163	20000	19140	ug/L	-4	10	
Iron	R	7.5970	6.6377	20000	18740	ug/L	-6	10	
Magnesium	R	2.0292	1.8427	20000	19170	ug/L	-4	10	
Potassium	R	5.1218	5.2757	20000	20460	ug/L	2	10	
Sodium	R	10.280	9.9797	20000	20520	ug/L	3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1677193	3.13

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86228386055 File : 060706ar.txt Time : 07-JUN-2006 17:58
Cal : 86228386001 Caldate: 07-JUN-2006
Standards: S3543

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	35.368	36.682	5000	5207	ug/L	4	10	
Arsenic	A	20.750	22.410	5000	5339	ug/L	7	10	
Barium	A	399.64	392.46	5000	5230	ug/L	5	10	
Beryllium	A	3391.8	3489.6	500.0	516.4	ug/L	3	10	
Boron	A	189.75	198.49	5000	5165	ug/L	3	10	
Cadmium	A	325.52	335.31	5000	5353	ug/L	7	10	
Chromium	A	81.195	81.222	5000	5126	ug/L	3	10	
Cobalt	A	108.13	107.76	5000	5042	ug/L	1	10	
Copper	A	640.61	627.83	5000	5045	ug/L	1	10	
Lead	A	50.710	50.284	5000	5172	ug/L	3	10	
Manganese	A	866.88	848.36	5000	5149	ug/L	3	10	
Molybdenum	A	37.999	39.051	5000	5173	ug/L	3	10	
Nickel	A	57.097	56.943	5000	5118	ug/L	2	10	
Selenium	A	21.134	23.509	5000	5334	ug/L	7	10	
Silver	A	394.64	397.47	1000	989.8	ug/L	-1	10	
Thallium	A	18.375	19.180	5000	5089	ug/L	2	10	
Tin	A	20.833	21.390	5000	5194	ug/L	4	10	
Titanium	A	948.70	933.05	5000	5210	ug/L	4	10	
Vanadium	A	123.53	122.44	5000	5023	ug/L	0	10	
Zinc	A	132.72	123.68	5000	5208	ug/L	4	10	
Aluminum	R	1.2209	1.1103	20000	18380	ug/L	-8	10	
Calcium	R	11.190	9.2621	20000	18830	ug/L	-6	10	
Iron	R	7.5970	6.5463	20000	18480	ug/L	-8	10	
Magnesium	R	2.0292	1.8257	20000	18990	ug/L	-5	10	
Potassium	R	5.1218	5.2903	20000	20520	ug/L	3	10	
Sodium	R	10.280	9.9424	20000	20450	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1660237	2.09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86228386065 File : 060706ar.txt Time : 07-JUN-2006 18:38
Cal : 86228386001 Caldate: 07-JUN-2006
Standards: S3543

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	35.368	37.722	5000	5354	ug/L	7	10	
Arsenic	A	20.750	22.663	5000	5399	ug/L	8	10	
Barium	A	399.64	394.68	5000	5259	ug/L	5	10	
Beryllium	A	3391.8	3492.7	500.0	516.8	ug/L	3	10	
Boron	A	189.75	199.80	5000	5199	ug/L	4	10	
Cadmium	A	325.52	337.49	5000	5388	ug/L	8	10	
Chromium	A	81.195	82.170	5000	5185	ug/L	4	10	
Cobalt	A	108.13	108.42	5000	5073	ug/L	1	10	
Copper	A	640.61	630.84	5000	5070	ug/L	1	10	
Lead	A	50.710	50.670	5000	5212	ug/L	4	10	
Manganese	A	866.88	850.73	5000	5163	ug/L	3	10	
Molybdenum	A	37.999	39.325	5000	5210	ug/L	4	10	
Nickel	A	57.097	57.752	5000	5191	ug/L	4	10	
Selenium	A	21.134	23.926	5000	5428	ug/L	9	10	
Silver	A	394.64	401.53	1000	999.9	ug/L	0	10	
Thallium	A	18.375	19.364	5000	5138	ug/L	3	10	
Tin	A	20.833	21.744	5000	5280	ug/L	6	10	
Titanium	A	948.70	939.69	5000	5247	ug/L	5	10	
Vanadium	A	123.53	123.04	5000	5048	ug/L	1	10	
Zinc	A	132.72	124.47	5000	5241	ug/L	5	10	
Aluminum	R	1.2209	1.1168	20000	18480	ug/L	-8	10	
Calcium	R	11.190	9.2832	20000	18870	ug/L	-6	10	
Iron	R	7.5970	6.5095	20000	18370	ug/L	-8	10	
Magnesium	R	2.0292	1.8136	20000	18870	ug/L	-6	10	
Potassium	R	5.1218	5.3675	20000	20820	ug/L	4	10	
Sodium	R	10.280	10.095	20000	20760	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1677566	3.16

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86228386008 File : 060706ar.txt Time : 07-JUN-2006 14:59
Cal : 86228386001 Caldate: 07-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	ND	5.000	0.4303	ug/L	
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	[0.7174]	5.000	0.4217	ug/L	!ib
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1645781	1.20

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 86228386029
Cal : 86228386001

File : 060706ar.txt
Caldate: 07-JUN-2006

IDF : 1.0
Time : 07-JUN-2006 16:13

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[0.8011]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1597558	-1.76

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86228386043 File : 060706ar.txt Time : 07-JUN-2006 17:08
Cal : 86228386001 Caldate: 07-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[1.490]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1652232	1.60

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86228386057 File : 060706ar.txt Time : 07-JUN-2006 18:04
Cal : 86228386001 Caldate: 07-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[1.298]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1655139	1.78

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 86228386067
Cal : 86228386001

File : 060706ar.txt
Caldate: 07-JUN-2006

IDF : 1.0
Time : 07-JUN-2006 18:44

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[1.340]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[0.9716]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1666723	2.49

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86228386009 File : 060706ar.txt Time : 07-JUN-2006 15:03
Cal : 86228386001 Caldate: 07-JUN-2006
Standards: S3254

Analyte	Ch	Quant	RL	Units	Flags
Antimony	A	[-4.527]	5.000	ug/L	
Arsenic	A	[0.7077]	5.000	ug/L	
Barium	A	[1.589]	5.000	ug/L	
Beryllium	A	[-0.1432]	2.000	ug/L	
Boron	A	[-3.684]	100.0	ug/L	
Cadmium	A	[2.603]	5.000	ug/L	
Cobalt	A	[-2.164]	5.000	ug/L	
Lead	A	[-1.357]	3.000	ug/L	
Molybdenum	A	[-0.6419]	5.000	ug/L	
Selenium	A	[0.3482]	5.000	ug/L	
Silver	A	[-1.234]	5.000	ug/L	
Thallium	A	[-2.642]	5.000	ug/L	
Tin	A	[-3.329]	40.00	ug/L	
Zinc	A	[11.15]	20.00	ug/L	
Potassium	R	[53.55]	500.0	ug/L	
Sodium	R	[17.66]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19480	ug/L	97
Copper	A	20000	21690	ug/L	108
Manganese	A	20000	18550	ug/L	93
Nickel	A	20000	19010	ug/L	95
Titanium	A	20000	17230	ug/L	86
Vanadium	A	20000	20680	ug/L	103
Aluminum	R	500000	520600	ug/L	104
Calcium	R	500000	513900	ug/L	103
Iron	R	200000	200900	ug/L	100
Magnesium	R	500000	524600	ug/L	105

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1518949	-6.60

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08
Seqnum : 86228386064
Cal : 86228386001
Standards: S3527

File : 060706ar.txt
Caldate: 07-JUN-2006

IDF : 1.0
Time : 07-JUN-2006 18:35

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	539.2	ug/L	8	20	
Arsenic	A	500.0	556.5	ug/L	11	20	
Barium	A	500.0	542.2	ug/L	8	20	
Beryllium	A	500.0	527.3	ug/L	5	20	
Cadmium	A	1000	1055	ug/L	5	20	
Chromium	A	500.0	531.7	ug/L	6	20	
Cobalt	A	500.0	491.4	ug/L	-2	20	
Copper	A	500.0	530.2	ug/L	6	20	
Lead	A	1000	996.2	ug/L	0	20	
Manganese	A	500.0	534.4	ug/L	7	20	
Molybdenum	A	500.0	537.0	ug/L	7	20	
Nickel	A	1000	1007	ug/L	1	20	
Selenium	A	500.0	515.3	ug/L	3	20	
Silver	A	1000	1095	ug/L	10	20	
Thallium	A	500.0	484.1	ug/L	-3	20	
Titanium	A	20000	20020	ug/L	0		
Vanadium	A	500.0	553.3	ug/L	11	20	
Zinc	A	1000	1014	ug/L	1	20	
Aluminum	R	500000	494900	ug/L	-1		
Calcium	R	500000	470700	ug/L	-6		
Iron	R	200000	178800	ug/L	-11		
Magnesium	R	500000	484000	ug/L	-3		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1519613	-6.56

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86228386 Instrument: MET08 PE ICP Begun: 07-JUN-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	060706ar	ICALBLK				07-JUN-2006 14:26	1.0	1.0					
002	060706ar	ICAL	CRIM08			07-JUN-2006 14:30	1.0	1.0				1	
003	060706ar	ICAL	CS100			07-JUN-2006 14:34	1.0	1.0				2	
004	060706ar	ICAL	CS1K			07-JUN-2006 14:37	1.0	1.0				3	
005	060706ar	ICAL	CS10K			07-JUN-2006 14:40	1.0	1.0				4	
006	060706ar	ICAL	CS100K			07-JUN-2006 14:42	1.0	1.0				5	
007	060706ar	ICV				07-JUN-2006 14:45	1.0	1.0			5000	6	
008	060706ar	ICB				07-JUN-2006 14:59	1.0	1.0			5000		
009	060706ar	ICSA				07-JUN-2006 15:03	1.0	1.0			5000	7	10:MG=524576
010	060706ar	ICSAB				07-JUN-2006 15:14	1.0	1.0			5000	8	5:AL=543439
011	060706ar	BLANK	QC342089	113957	Filtra	07-JUN-2006 15:17	1.0	1.0			5000		
012	060706ar	BS	QC342090	113957	Filtra	07-JUN-2006 15:21	1.0	1.0			5000		
013	060706ar	X	QC342091	113957	Filtra	07-JUN-2006 15:24	1.0	1.0		1	5000		
014	060706ar	X	QC342091	113957	Filtra	07-JUN-2006 15:27	1.0						
015	060706ar	X	QC342091	113957	Filtra	07-JUN-2006 15:30	1.0	1.0	1	1	5000		382
016	060706ar	X	QC342091	113957	Filtra	07-JUN-2006 15:33	1.0	1.0	1	1	5000		
017	060706ar	X	QC342091	113957	Filtra	07-JUN-2006 15:36	1.0						
018	060706ar	X	QC342091	113957	Filtra	07-JUN-2006 15:40	1.0						
019	060706ar	MSS	187112-002	113957	Filtra	07-JUN-2006 15:44	1.0	1.0			5000		
020	060706ar	MS	QC342092	113957	Filtra	07-JUN-2006 15:48	1.0	1.0		1	5000		
021	060706ar	MSD	QC342093	113957	Filtra	07-JUN-2006 15:50	1.0	1.0		1	5000		
022	060706ar	SER	QC342094	113957	Filtra	07-JUN-2006 15:52	5.0	1.0			5000		
023	060706ar	MS	QC342092	113957	Filtra	07-JUN-2006 15:57	1.0	1.0			5000		
024	060706ar	MSD	QC342093	113957	Filtra	07-JUN-2006 15:59	1.0	1.0		1	5000		
025	060706ar	PDS	QC342095	113957	Filtra	07-JUN-2006 16:01	1.0	1.0			5000	9 10	
026	060706ar	X	RINSE			07-JUN-2006 16:03	1.0						
027	060706ar	CCV				07-JUN-2006 16:07	1.0	1.0			5000	11	
028	060706ar	X	FLUSH			07-JUN-2006 16:10	1.0						
029	060706ar	CCB				07-JUN-2006 16:13	1.0	1.0			5000		
030	060706ar	SAMPLE	187112-003	113957	Filtra	07-JUN-2006 16:17	1.0	1.0	3		5000		3:MG=360360
031	060706ar	SAMPLE	187112-004	113957	Filtra	07-JUN-2006 16:22	1.0	1.0	1		5000		1:MG=209406

Stds used: 1=S3580 2=S3582 3=S3581 4=S3583 5=S3584 6=S3541 7=S3254 8=S3527 9=S1792 10=S1793 11=S3543

Analyst: AH Date: 6/7/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86228386 Instrument: MET08 PE ICP Begun: 07-JUN-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	060706ar	SAMPLE	187112-005	113957	Water	07-JUN-2006 16:26	1.0	1.0		5000		1:NA=147912
033	060706ar	SAMPLE	187112-006	113957	Filtra	07-JUN-2006 16:29	1.0	1.0	1	5000		1:NA=225061
034	060706ar	SAMPLE	187112-007	113957	Filtra	07-JUN-2006 16:33	1.0	1.0	1	5000		1:NA=230883
035	060706ar	SAMPLE	187112-008	113957	Filtra	07-JUN-2006 16:37	1.0	1.0	1	5000		1:NA=212196
036	060706ar	SAMPLE	187112-009	113957	Filtra	07-JUN-2006 16:42	1.0	1.0	2	5000		1:NA=252767
037	060706ar	SAMPLE	187112-009	113957	Filtra	07-JUN-2006 16:46	1.0	1.0	1	5000		1:NA=249409
038	060706ar	SAMPLE	187112-010	113957	Filtra	07-JUN-2006 16:50	1.0	1.0	1	5000		1:NA=131822
039	060706ar	SAMPLE	187112-011	113957	Filtra	07-JUN-2006 16:54	1.0	1.0		5000		
040	060706ar	X	RINSE			07-JUN-2006 16:58	1.0					
041	060706ar	CCV				07-JUN-2006 17:02	1.0	1.0		5000	11	
042	060706ar	X	FLUSH			07-JUN-2006 17:05	1.0					
043	060706ar	CCB				07-JUN-2006 17:08	1.0	1.0		5000		
044	060706ar	SAMPLE	187112-012	113957	Filtra	07-JUN-2006 17:12	1.0	1.0	1	5000		1:NA=221138
045	060706ar	SAMPLE	187112-013	113957	Water	07-JUN-2006 17:17	1.0	1.0		5000		
046	060706ar	SAMPLE	187137-001	113957	Filtra	07-JUN-2006 17:21	1.0	1.0		5000		
047	060706ar	SAMPLE	187020-017	113957	Filtra	07-JUN-2006 17:25	1.0	1.0		5000		
048	060706ar	SAMPLE	187020-018	113957	Filtra	07-JUN-2006 17:29	1.0	1.0		5000		
049	060706ar	SAMPLE	187020-019	113957	Filtra	07-JUN-2006 17:33	1.0	1.0		5000		
050	060706ar	SAMPLE	187020-020	113957	Filtra	07-JUN-2006 17:37	1.0	1.0		5000		
051	060706ar	SAMPLE	187112-003	113957	Filtra	07-JUN-2006 17:41	10.0	1.0		5000		
052	060706ar	SAMPLE	187112-004	113957	Filtra	07-JUN-2006 17:46	5.0	1.0		5000		
053	060706ar	SAMPLE	187112-006	113957	Filtra	07-JUN-2006 17:50	5.0	1.0		5000		
054	060706ar	X	RINSE			07-JUN-2006 17:54	1.0					
055	060706ar	CCV				07-JUN-2006 17:58	1.0	1.0		5000	11	
056	060706ar	X	FLUSH			07-JUN-2006 18:00	1.0					
057	060706ar	CCB				07-JUN-2006 18:04	1.0	1.0		5000		
058	060706ar	SAMPLE	187112-007	113957	Filtra	07-JUN-2006 18:08	5.0	1.0		5000		
059	060706ar	SAMPLE	187112-008	113957	Filtra	07-JUN-2006 18:12	5.0	1.0		5000		
060	060706ar	SAMPLE	187112-009	113957	Filtra	07-JUN-2006 18:16	5.0	1.0		5000		
061	060706ar	SAMPLE	187112-010	113957	Filtra	07-JUN-2006 18:21	5.0	1.0		5000		
062	060706ar	SAMPLE	187112-012	113957	Filtra	07-JUN-2006 18:25	5.0	1.0		5000		

Stds used: 1=S3580 2=S3582 3=S3581 4=S3583 5=S3584 6=S3541 7=S3254 8=S3527 9=S1792 10=S1793 11=S3543

Analyst: AH Date: 6/7/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 07-JUN-2006

Sequence: 86228386 Instrument: MET08 PE ICP
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
063	060706ar	BSD	QC342091	113957	Filtra	07-JUN-2006 18:29	1.0	1.0	5000		
064	060706ar	ICSAB				07-JUN-2006 18:35	1.0	1.0	5000	8	5:AL=494873
065	060706ar	CCV				07-JUN-2006 18:38	1.0	1.0	5000	11	
066	060706ar	X	FLUSH			07-JUN-2006 18:40	1.0				
067	060706ar	CCB				07-JUN-2006 18:44	1.0	1.0	5000		

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Stds used: 1=S3580 2=S3582 3=S3581 4=S3583 5=S3584 6=S3541 7=S3254 8=S3527 9=S1792 10=S1793 11=S3543

Analyst: [signature] Date: 6/7/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Reviewer: ---

Inst : MET05
Calnum : 56228694001
Units : ug/L

Date : 07-JUN-2006 19:46
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	f0719004	56228694004	CS1	07-JUN-2006 19:51	S3608
L2	f0719005	56228694005	CS2	07-JUN-2006 19:57	S3609
L3	f0719006	56228694006	CS3	07-JUN-2006 20:03	S3610
L4	f0719007	56228694007	CS4	07-JUN-2006 20:08	S3611
L5	f0719008	56228694008	CS5	07-JUN-2006 20:14	S3605
L6	f0719009	56228694009	CS6	07-JUN-2006 20:19	S3606

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		3.2307	1.9676	0.5528	0.4369	0.4865	BLNK	-2.7924	2.13381		1.3349	0.996	0.995	
Antimony	0.2660	0.2441	0.2175	0.1986	0.2009	0.1997	BLNK	-0.0832	5.00444		0.2211	1.000	0.995	
Arsenic		0.3776	0.4483	0.3695	0.3636	0.3605	BLNK	-0.1786	2.77213		0.3839	1.000	0.995	
Barium	0.0949	0.1022	0.0888	0.0838	0.0834	0.0834	BLNK	-0.0593	11.9986		0.0894	1.000	0.995	
Beryllium	0.1048	0.1063	0.1021	0.0954	0.0980	0.0988	BLNK	-0.0387	10.1401		0.1009	1.000	0.995	
Cadmium	0.6145	0.4633	0.4130	0.3770	0.3494	0.3358	BLNK	-0.1651	2.95629		0.4255	1.000	0.995	
Calcium		0.0263	0.0266	0.0158	0.0159	0.0158	BLNK	-31.445	63.3776		0.0201	1.000	0.995	
Chromium		8.1442	5.5257	3.2547	3.0112	3.1506	BLNK	-0.7195	0.32163		4.6173	0.999	0.995	
Cobalt	3.6834	3.6374	3.4360	3.3171	3.2604	3.4787	BLNK	-0.0211	0.29118		3.4688	0.999	0.995	
Copper		1.2606	1.1459	0.8091	0.7592	0.7491	BLNK	-0.3772	1.33425		0.9448	1.000	0.995	
Iron		0.1371	0.1087	0.0812	0.0854	0.0828	BLNK	-32.811	12.0316		0.0990	1.000	0.995	
Lead	1.0326	0.9226	0.8578	0.8281	0.8434	0.8255	BLNK	-0.0540	1.20653		0.8850	1.000	0.995	
Magnesium		0.0554	0.0539	0.0522	0.0554	0.0568	BLNK	-1.5279	17.6975		0.0547	1.000	0.995	
Manganese	5.5251	4.8238	4.4929	3.9287	3.8499	4.0757	BLNK	-0.0795	0.24824		4.4493	0.999	0.995	
Molybdenum		0.8629	0.8396	0.7586	0.7390	0.7333	BLNK	-0.0454	1.36187		0.7867	1.000	0.995	
Nickel	1.5247	1.0962	0.9684	0.7507	0.7087	0.6965	BLNK	-0.2572	1.43282		0.9575	1.000	0.995	
Potassium		1.4815	1.0791	0.5745	0.5161	0.5159	BLNK	-92.625	1.94879		0.8334	1.000	0.995	
Selenium		0.0353	0.0388	0.0287	0.0282	0.0274	BLNK	-0.3183	36.3998		0.0317	1.000	0.995	
Silver	1.9781	1.8418	1.7996	1.7082	1.6894	1.6327	BLNK	-0.0225	0.60828		1.7750	1.000	0.995	
Sodium		0.9656	0.8690	0.6202	0.6055	0.6228	BLNK	-28.542	1.61750		0.7366	1.000	0.995	
Thallium		0.6750	0.6273	0.5931	0.6106	0.6521	BLNK	-0.0550	1.55404		0.6316	0.999	0.995	
Vanadium		5.1039	4.3008	3.5829	3.5083	3.8269	BLNK	-0.1896	0.26607		4.0646	0.998	0.995	
Zinc		2.4239	2.6049	0.4935	0.4014	0.3881	BLNK	-2.4289	2.59599		1.2624	0.999	0.995	

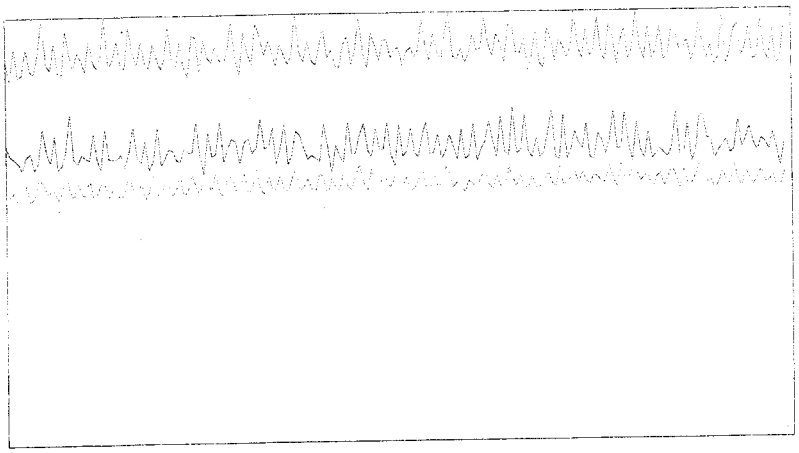
385

Instrument amount = a0 + response * a1 + response^2 * a2; BLNK=Y=aX+[blank]

56228694001

Tune Report

Tune File : Autotune.u



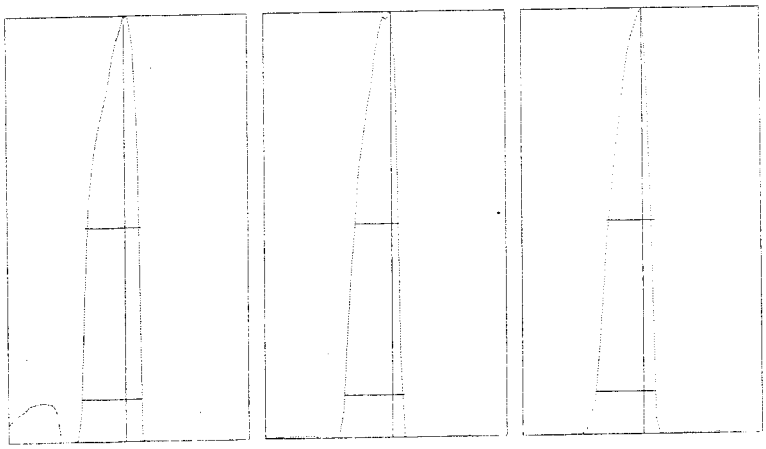
m/z:	7	89	205
Range:	20,000	20,000	20,000
Count:	13,839	19,179	12,495
Mean:	13835.5	18301.9	12133.5
RSD%:	4.88	3.90	3.09
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.30%
Doubly Charged:	70/140	1.03%

Background:

m/z:	7	89	205
Cps:	25.6	11.2	10.7



m/z:	7	89	205
Height:	13,856	18,535	12,199
Axis:	7.00	89.10	205.05
W-50%:	0.70	0.55	0.60
W-10%:	0.7500	0.7500	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1300 W	Extract 1:	-150 V	AMU Gain:	131
RF Matching:	1.7 V	Extract 2:	-110 V	AMU Offset:	125
Smpl Depth:	8 mm	Einzel 1,3:	-160 V	Axis Gain:	0.9993
Torch-H:	-0.1 mm	Einzel 2:	7 V	Axis Offset:	-0.08
Torch-V:	0.2 mm	Omega Bias:	-55 V	QP Bias:	1.6 V
Carrier Gas:	1.1 L/min	Omega (+):	5 V		
Makeup Gas:	0 L/min	Omega (-):	-5 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	6 V	Discriminator:	9.1 mV
PeriPump1:	0.1 rps	Plate Bias:	-5 V	Analog HV:	1790 V
PeriPump2:	--- rps			Pulse HV:	1450 V
S/C Temp:	2 degC				

Generated : Jun 07, 2006 17:31:28
Printed : Jun 07, 2006 17:31:34

P/A Factor Tuning Report

Acquired:Jun 7 2006 05:34 pm

Mass[amu]	Element	P/A Factor
6	Li	0.077696
9	Be	0.085086
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.099169
39	K	Sensitivity too high
43	Ca	0.099228
44	Ca	Sensitivity too high
45	Sc	0.098354
51	V	0.102376
52	Cr	0.102935
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.104437
57	Fe	0.105896
59	Co	0.105048
60	Ni	0.101359
63	Cu	0.104057
65	Cu	0.102023
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.100662
95	Mo	Sensitivity too low
98	Mo	0.100911
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.101894
111	Cd	Sensitivity too low
114	Cd	0.101294
115	In	0.101565
118	(In)	Sensitivity too high
121	Sb	0.102941
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.103586
166	Er	Sensitivity too low

205	Tl	0.104413
206	(Pb)	0.102684
207	(Pb)	0.102825
208	Pb	0.104010
209	Bi	0.102423

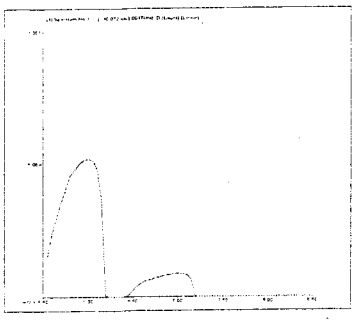
===Detector Parameters===
Discriminator: 9.1 mV
Analog HV: 1790 V
Pulse HV: 1450 V

6020 QC Tune Report

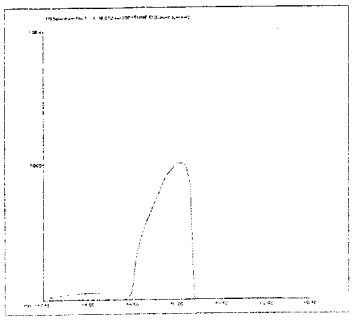
Data File: C:\ICPCHEM\1\DATA\06F0719b.B\001TUNE.D
Date Acquired: Jun 7 2006 07:34 pm
Acq. Method: TN6020.M
Operator:
Sample Name: tun,s3622
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

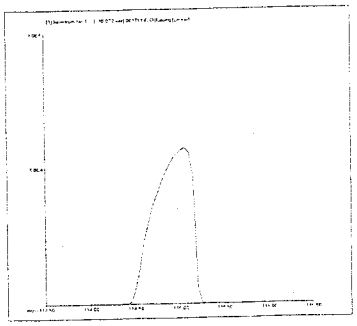
Element	Actual	Required	Flag
7 Li	1.27	5.00	
59 Co	2.01	5.00	
115 In	1.88	5.00	
205 Tl	1.12	5.00	



7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.00
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



115 In

Mass Calib.

Actual: 115.05

Required: 114.90 - 115.10

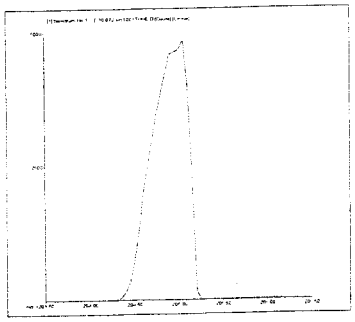
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



205 Tl

Mass Calib.

Actual: 205.05

Required: 204.90 - 205.10

Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06F0719b.B\003CAL
Date Acquired:	Jun 7 2006 07:46 pm
Operator:	
Sample Name:	std-blk
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\DATA\06D0108A.B\602001
Last Cal Update:	Jun 07 2006 06:29 pm
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean	SD	RSD(%)
6	Li	566834.69 M	7763.00	1.37
9	Be	43.33 P	12.02	27.74
23	Na	148197.80 P	990.40	0.67
26	Mg	725.56 P	99.57	13.72
27	Al	10991.11 P	243.30	2.21
39	K	399184.41 P	3644.00	0.91
44	Ca	4166.58 P	148.30	3.56
45	Sc	419934.41 P	3610.00	0.86
51	V	1136.77 P	257.70	22.67
52	Cr	3570.00 P	143.60	4.02
55	Mn	511.11 P	28.35	5.55
57	Fe	4352.22 P	82.62	1.90
59	Co	115.56 P	22.19	19.20
60	Ni	286.67 P	35.12	12.25
65	Cu	451.11 P	18.36	4.07
66	Zn	1492.22 P	131.40	8.81
72	Ge	79792.22 P	837.30	1.05
75	As	103.26 P	104.60	101.29
82	Se	14.00 P	10.91	77.93
95	Mo	53.33 P	28.48	53.40
109	Ag	58.89 P	5.09	8.65
111	Cd	88.98 P	22.65	25.45
115	In	561698.19 P	5106.00	0.91
121	Sb	186.67 P	3.33	1.79
137	Ba	55.56 P	13.47	24.25
205	Tl	282.22 P	22.19	7.86
208	Pb	356.67 P	23.09	6.47
209	Bi	398573.31 P	5252.00	1.32

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0719b.B\004CALI.D\004CALI.D#
Date Acquired: Jun 7 2006 07:51 pm
Operator:
Sample Name: cs1,s3608
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 07 2006 07:48 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean	SD	RSD(%)
6 Li	576569.50 M	9472.00	1.64
9 Be	302.22 P	30.97	10.25
23 Na	278900.00 P	2959.00	1.06
26 Mg	12621.11 P	118.80	0.94
27 Al	12966.67 P	25.17	0.19
39 K	541807.63 M	34430.00	6.35
44 Ca	8013.98 P	170.50	2.13
45 Sc	425382.19 P	4240.00	1.00
51 V	2603.53 P	180.50	6.93
52 Cr	5074.44 P	214.20	4.22
55 Mn	2225.56 P	44.76	2.01
57 Fe	7784.44 P	294.20	3.78
59 Co	1483.33 P	49.78	3.36
60 Ni	614.44 P	48.23	7.85
65 Cu	862.17 P	5.09	0.59
66 Zn	2410.00 P	85.05	3.53
72 Ge	80556.67 P	885.30	1.10
75 As	249.83 P	104.70	41.91
82 Se	30.00 P	13.61	45.37
95 Mo	377.78 P	13.47	3.57
109 Ag	796.67 P	5.77	0.72
111 Cd	247.47 P	8.58	3.47
115 In	566485.69 P	4626.00	0.82
121 Sb	753.33 P	20.82	2.76
137 Ba	268.89 P	30.06	11.18
205 Tl	1461.11 P	94.30	6.45
208 Pb	2074.44 P	40.32	1.94
209 Bi	401897.81 P	4833.00	1.20

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	576569.44	1.64	566834.69	101.7	80 - 120	

45	Sc	425382.19	1.00	419934.44	101.3	80 -	120
72	Ge	80556.66	1.10	79792.23	101.0	80 -	120
115	In	566485.63	0.82	561698.13	100.9	80 -	120
209	Bi	401897.78	1.20	398573.31	100.8	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0719b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0719b.B\005CALI.D\005CALI.D#
Date Acquired: Jun 7 2006 07:57 pm
Operator:
Sample Name: cs2,s3609
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 07 2006 07:53 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean	SD	RSD(%)
6 Li	572863.00 M	7017.00	1.22
9 Be	608.89 P	51.78	8.50
23 Na	417624.41 P	3207.00	0.77
26 Mg	23974.44 P	103.10	0.43
27 Al	13972.22 P	235.00	1.68
39 K	640803.31 P	3942.00	0.62
44 Ca	11354.31 P	155.80	1.37
45 Sc	432543.31 P	4648.00	1.07
51 V	4151.57 P	371.80	8.96
52 Cr	6628.89 P	192.50	2.90
55 Mn	3925.55 P	118.80	3.03
57 Fe	11162.22 P	299.50	2.68
59 Co	2960.00 P	123.30	4.17
60 Ni	892.22 P	12.62	1.41
65 Cu	1025.45 P	102.90	10.04
66 Zn	1972.22 P	71.67	3.63
72 Ge	81387.33 P	822.70	1.01
75 As	307.59 P	61.39	19.96
82 Se	28.67 P	8.11	28.29
95 Mo	702.22 P	23.65	3.37
109 Ag	1498.89 P	47.88	3.19
111 Cd	377.05 P	43.05	11.42
115 In	572119.63 P	4326.00	0.76
121 Sb	1396.67 P	63.60	4.55
137 Ba	584.44 P	39.49	6.76
205 Tl	2717.78 P	111.10	4.09
208 Pb	3716.67 P	166.00	4.47
209 Bi	402750.00 P	5431.00	1.35

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	572863.00	1.22	566834.69	101.1	80 - 120	

45 Sc	432543.31	1.07	419934.44	103.0	80 -	120
72 Ge	81387.34	1.01	79792.23	102.0	80 -	120
115 In	572119.63	0.76	561698.13	101.9	80 -	120
209 Bi	402749.97	1.35	398573.31	101.0	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0719b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0719b.B\006CALI.D\006CALI.D#
Date Acquired: Jun 7 2006 08:03 pm
Operator:
Sample Name: cs3,s3610
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 07 2006 07:59 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean	SD	RSD(%)
6 Li	578700.00 P	3118.00	0.54
9 Be	1181.11 P	58.53	4.96
23 Na	759903.31 A	2202.00	0.29
26 Mg	47130.00 P	689.60	1.46
27 Al	17206.67 P	151.70	0.88
39 K	943702.69 A	4847.00	0.51
44 Ca	23278.36 P	356.40	1.53
45 Sc	437296.59 P	5692.00	1.30
51 V	7073.35 P	591.60	8.36
52 Cr	9087.78 P	132.40	1.46
55 Mn	7388.89 P	79.05	1.07
57 Fe	17877.78 P	76.18	0.43
59 Co	5650.00 P	78.81	1.39
60 Ni	1592.22 P	90.33	5.67
65 Cu	1884.24 P	39.77	2.11
66 Zn	4284.44 P	111.90	2.61
72 Ge	82229.33 P	731.70	0.89
75 As	737.49 P	104.50	14.17
82 Se	63.78 P	14.79	23.19
95 Mo	1381.11 P	89.53	6.48
109 Ag	2958.89 P	137.10	4.63
111 Cd	679.41 P	41.26	6.07
115 In	575737.19 P	3768.00	0.65
121 Sb	2504.44 P	63.80	2.55
137 Ba	1022.22 P	63.01	6.16
205 Tl	5082.22 P	91.67	1.80
208 Pb	6948.89 P	96.28	1.39
209 Bi	405042.19 P	4338.00	1.07

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	578700.00	0.54	566834.69	102.1	80 - 120	

45 Sc	437296.66	1.30	419934.44	104.1	80 -	120
72 Ge	82229.34	0.89	79792.23	103.1	80 -	120
115 In	575737.19	0.65	561698.13	102.5	80 -	120
209 Bi	405042.19	1.07	398573.31	101.6	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0719b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0719b.B\007CALI.D\007CALI.D#
Date Acquired: Jun 7 2006 08:08 pm
Operator:
Sample Name: cs4,s3611
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 07 2006 08:04 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	598055.13	M	12780.00	2.14
9 Be	11412.22	P	224.20	1.96
23 Na	5513565.00	A	63470.00	1.15
26 Mg	464054.41	P	3350.00	0.72
27 Al	49154.44	P	1542.00	3.14
39 K	5107826.00	A	36120.00	0.71
44 Ca	140889.91	P	1278.00	0.91
45 Sc	444538.91	P	5260.00	1.18
51 V	60026.15	P	1066.00	1.78
52 Cr	54527.77	P	935.70	1.72
55 Mn	65816.66	P	629.80	0.96
57 Fe	135955.59	P	750.40	0.55
59 Co	55572.22	P	643.60	1.16
60 Ni	12576.67	P	299.50	2.38
65 Cu	13555.74	P	202.30	1.49
66 Zn	8266.67	P	12.02	0.15
72 Ge	83763.33	P	538.60	0.64
75 As	6191.04	P	97.31	1.57
82 Se	480.44	P	3.36	0.70
95 Mo	12707.78	P	170.60	1.34
109 Ag	28617.78	P	644.80	2.25
111 Cd	6315.62	P	100.10	1.59
115 In	586156.81	P	4542.00	0.77
121 Sb	23281.11	P	414.60	1.78
137 Ba	9825.55	P	302.60	3.08
205 Tl	48463.33	P	733.60	1.51
208 Pb	67657.78	P	883.60	1.31
209 Bi	408522.19	P	4772.00	1.17

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	598055.13	2.14	566834.69	105.5	80 -	120	

45	Sc	444538.88	1.18	419934.44	105.9	80 - 120
72	Ge	83763.34	0.64	79792.23	105.0	80 - 120
115	In	586156.81	0.77	561698.13	104.4	80 - 120
209	Bi	408522.19	1.17	398573.31	102.5	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0719b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0719b.B\008CALI.D\008CALI.D#
Date Acquired: Jun 7 2006 08:14 pm
Operator:
Sample Name: cs5,s3605
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 07 2006 08:10 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	594585.00	M	9810.00	1.65
9	Be	116551.10	P	930.30	0.80
23	Na	53633168.00	A	163300.00	0.30
26	Mg	4910640.00	A	54330.00	1.11
27	Al	387060.00	P	6537.00	1.69
39	K	45718680.00	A	256900.00	0.56
44	Ca	1411702.00	A	15360.00	1.09
45	Sc	442970.00	P	6194.00	1.40
51	V	591821.31	P	7286.00	1.23
52	Cr	507970.00	P	4390.00	0.86
55	Mn	649466.63	P	8100.00	1.25
57	Fe	1440460.00	A	5546.00	0.39
59	Co	550003.31	P	4610.00	0.84
60	Ni	119550.00	P	1266.00	1.06
65	Cu	128075.70	P	1662.00	1.30
66	Zn	67713.33	P	553.40	0.82
72	Ge	84346.22	P	638.80	0.76
75	As	61331.65	P	959.80	1.56
82	Se	4758.67	P	94.37	1.98
95	Mo	124654.40	P	623.20	0.50
109	Ag	284994.41	P	2596.00	0.91
111	Cd	58943.06	P	675.70	1.15
115	In	570742.31	P	5570.00	0.98
121	Sb	229340.00	P	1870.00	0.82
137	Ba	95257.78	P	1427.00	1.50
205	Tl	488054.41	P	5902.00	1.21
208	Pb	674096.63	P	4945.00	0.73
209	Bi	399681.09	P	7482.00	1.87

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6	Li	594585.00	1.65	566834.69	104.9	80 -	120	

45	Sc	442969.97	1.40	419934.44	105.5	80 -	120
72	Ge	84346.23	0.76	79792.23	105.7	80 -	120
115	In	570742.31	0.98	561698.13	101.6	80 -	120
209	Bi	399681.09	1.87	398573.31	100.3	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0719b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0719b.B\009CALI.D\009CALI.D#
Date Acquired: Jun 7 2006 08:19 pm
Operator:
Sample Name: cs6,s3606
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 07 2006 08:15 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	579510.88	M	5038.00	0.87
9	Be	229031.09	P	1644.00	0.72
23	Na	106531600.00	A	1376000.00	1.29
26	Mg	9714448.00	A	92910.00	0.96
27	Al	832178.00	A	14240.00	1.71
39	K	88255664.00	A	285000.00	0.32
44	Ca	2698938.00	A	8488.00	0.31
45	Sc	427686.59	P	3963.00	0.93
51	V	1267010.00	A	3752.00	0.30
52	Cr	1043105.00	A	7190.00	0.69
55	Mn	1349364.00	A	1291.00	0.10
57	Fe	2740086.00	A	25140.00	0.92
59	Co	1151725.00	A	6014.00	0.52
60	Ni	230597.80	P	2627.00	1.14
65	Cu	248006.80	P	1796.00	0.72
66	Zn	128493.30	P	784.00	0.61
72	Ge	82770.00	P	282.10	0.34
75	As	119354.20	P	432.80	0.36
82	Se	9056.00	P	101.50	1.12
95	Mo	242783.30	P	697.80	0.29
109	Ag	540565.63	P	3145.00	0.58
111	Cd	111180.00	P	409.60	0.37
115	In	547610.69	P	4255.00	0.78
121	Sb	437377.69	P	1710.00	0.39
137	Ba	182580.00	P	1341.00	0.73
205	Tl	997395.31	A	10040.00	1.01
208	Pb	1262645.00	P	4951.00	0.39
209	Bi	382378.91	P	1020.00	0.27

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	579510.94	0.87	566834.69	102.2	80 - 120	

45	Sc	427686.66	0.93	419934.44	101.8	80 -	120
72	Ge	82770.00	0.34	79792.23	103.7	80 -	120
115	In	547610.69	0.78	561698.13	97.5	80 -	120
209	Bi	382378.88	0.27	398573.31	95.9	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0719b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Summary

Calibration : C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Calib: Jun 07, 2006 20:21
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\06f0719b.b\003calb.d\	003calb.d#	Jun 7 2006 07:46 pm
2	...hem\1\data\06f0719b.b\004cali.d\	004cali.d#	Jun 7 2006 07:51 pm
3	...hem\1\data\06f0719b.b\005cali.d\	005cali.d#	Jun 7 2006 07:57 pm
4	...hem\1\data\06f0719b.b\006cali.d\	006cali.d#	Jun 7 2006 08:03 pm
5	...hem\1\data\06f0719b.b\007cali.d\	007cali.d#	Jun 7 2006 08:08 pm
6	...hem\1\data\06f0719b.b\008cali.d\	008cali.d#	Jun 7 2006 08:14 pm
7	...hem\1\data\06f0719b.b\009cali.d\	009cali.d#	Jun 7 2006 08:19 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	Excluded	---	ppb
Be	9	6	Y = 9.862E-2*X +3.816E-3(blank)	---	ppb
Na	23	45	Y = 6.182E-1*X +1.765E+1(blank)	---	ppb
Mg	25	45	Excluded	---	ppb
Mg	26	45	Y = 5.651E-2*X +8.633E-2(blank)	---	ppb
Al	27	45	Y = 4.686E-1*X +1.309E+0(blank)	---	ppb
K	39	45	Y = 5.131E-1*X +4.753E+1(blank)	---	ppb
Ca	43	45	Excluded	---	ppb
Ca	44	45	Y = 1.578E-2*X +4.961E-1(blank)	---	ppb
Sc	45	---	Excluded	---	ppb
V	51	72	Y = 3.758E+0*X +7.126E-1(blank)	---	ppb
Cr	52	72	Y = 3.109E+0*X +2.237E+0(blank)	---	ppb
Cr	53	72	Excluded	---	ppb
Fe	54	72	Excluded	---	ppb
Mn	55	72	Y = 4.028E+0*X +3.204E-1(blank)	---	ppb
Fe	57	72	Y = 8.311E-2*X +2.727E+0(blank)	---	ppb
Co	59	72	Y = 3.434E+0*X +7.247E-2(blank)	---	ppb
Ni	60	72	Y = 6.979E-1*X +1.795E-1(blank)	---	ppb
Cu	63	72	Excluded	---	ppb
Cu	65	72	Y = 7.495E-1*X +2.827E-1(blank)	---	ppb
Zn	66	72	Y = 3.852E-1*X +9.356E-1(blank)	---	ppb
Ge	72	---	Excluded	---	ppb
As	75	72	Y = 3.607E-1*X +6.441E-2(blank)	---	ppb
(As)	77	72	Excluded	---	ppb
Se	82	72	Y = 2.747E-2*X +8.745E-3(blank)	---	ppb
(As)	83	72	Excluded	---	ppb
(Ca)	88	72	Excluded	---	ppb
Y	89	72	Excluded	---	ppb
Mo	95	72	Y = 7.343E-1*X +3.334E-2(blank)	---	ppb
Mo	98	72	Excluded	---	ppb
(Mo)	99	72	Excluded	---	ppb
(Cd)	106	72	Excluded	---	ppb
(Cd)	108	72	Excluded	---	ppb
Ag	109	72	Y = 1.644E+0*X +3.693E-2(blank)	---	ppb
Cd	111	72	Y = 3.383E-1*X +5.585E-2(blank)	---	ppb
Cd	114	72	Excluded	---	ppb
In	115	---	Excluded	---	ppb
(In)	118	---	Excluded	---	ppb
Sb	121	115	Y = 1.998E-1*X +1.662E-2(blank)	---	ppb
Ba	135	115	Excluded	---	ppb
Ba	137	115	Y = 8.334E-2*X +4.943E-3(blank)	---	ppb
Tb	159	---	Excluded	---	ppb
Er	166	115	Excluded	---	ppb
Tl	205	209	Y = 6.435E-1*X +3.539E-2(blank)	---	ppb
(Pb)	206	209	Excluded	---	ppb
(Pb)	207	209	Excluded	---	ppb
Pb	208	209	Y = 8.288E-1*X +4.475E-2(blank)	---	ppb
Bi	209	---	Excluded	---	ppb
Th	232	209	--------	---	ppb
U	238	209	--------	---	ppb

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05
Seqnum : 56228694010
Cal : 56228694001
Standards: S3601

File : f0719010
Caldate: 07-JUN-2006

IDF : 1.0
Time : 07-JUN-2006 20:25

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	1.3349	0.4852	100.0	100.7	ug/L	1	10	
Antimony	0.2211	0.2130	100.0	106.5	ug/L	7	10	
Arsenic	0.3839	0.3846	100.0	106.4	ug/L	6	10	
Barium	0.0894	0.0880	100.0	105.6	ug/L	6	10	
Beryllium	0.1009	0.1071	100.0	108.6	ug/L	9	10	
Cadmium	0.4255	0.3629	100.0	107.1	ug/L	7	10	
Calcium	0.0201	0.0168	10000	10620	ug/L	6	10	
Chromium	4.6173	3.1319	100.0	100.0	ug/L	0	10	
Cobalt	3.4688	3.4173	100.0	99.48	ug/L	-1	10	
Copper	0.9448	0.8014	100.0	106.6	ug/L	7	10	
Iron	0.0990	0.0898	10000	10780	ug/L	8	10	
Lead	0.8850	0.8815	100.0	106.3	ug/L	6	10	
Magnesium	0.0547	0.0608	10000	10760	ug/L	8	10	
Manganese	4.4493	4.0290	100.0	99.94	ug/L	0	10	
Molybdenum	0.7867	0.7680	100.0	104.6	ug/L	5	10	
Nickel	0.9575	0.7341	100.0	104.9	ug/L	5	10	
Potassium	0.8334	0.5471	10000	10570	ug/L	6	10	
Selenium	0.0317	0.0295	100.0	107.1	ug/L	7	10	
Silver	1.7750	1.7286	100.0	105.1	ug/L	5	10	
Sodium	0.7366	0.6675	10000	10770	ug/L	8	10	
Thallium	0.6316	0.6200	50.00	48.12	ug/L	-4	10	
Vanadium	4.0646	3.6235	100.0	96.22	ug/L	-4	10	
Zinc	1.2624	0.4228	100.0	107.3	ug/L	7	10	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	561263	-0.98
Scandium	419934	417321	-0.62
Germanium	79792	81182	1.74
Indium	561698	535247	-4.71
Bismuth	398573	380212	-4.61

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56228694029 File : f0719029
Cal : 56228694001 Caldate: 07-JUN-2006
Standards: S3621

IDF : 1.0
Time : 07-JUN-2006 22:11

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3349	0.6014	150.0	189.7	ug/L	**26**	10	c+ ***
Antimony	0.2211	0.2085	150.0	156.4	ug/L	4	10	
Arsenic	0.3839	0.3785	150.0	157.2	ug/L	5	10	
Barium	0.0894	0.0853	150.0	153.5	ug/L	2	10	
Beryllium	0.1009	0.1093	150.0	166.1	ug/L	**11**	10	c+ ***
Cadmium	0.4255	0.3229	150.0	143.0	ug/L	-5	10	
Calcium	0.0201	0.0166	15000	15760	ug/L	5	10	
Chromium	4.6173	3.0352	150.0	145.7	ug/L	-3	10	
Cobalt	3.4688	3.6131	150.0	157.8	ug/L	5	10	
Copper	0.9448	0.7830	150.0	156.3	ug/L	4	10	
Iron	0.0990	0.0858	15000	15440	ug/L	3	10	
Lead	0.8850	0.8435	150.0	152.6	ug/L	2	10	
Magnesium	0.0547	0.0652	15000	17310	ug/L	**15**	10	c+ ***
Manganese	4.4493	4.0843	150.0	152.0	ug/L	1	10	
Molybdenum	0.7867	0.7377	150.0	150.6	ug/L	0	10	
Nickel	0.9575	0.7243	150.0	155.4	ug/L	4	10	
Potassium	0.8334	0.5722	15000	16630	ug/L	**11**	10	c+ ***
Selenium	0.0317	0.0284	150.0	155.0	ug/L	3	10	
Silver	1.7750	1.5768	150.0	143.8	ug/L	-4	10	
Sodium	0.7366	0.7227	15000	17510	ug/L	**17**	10	c+ ***
Thallium	0.6316	0.6270	150.0	146.1	ug/L	-3	10	
Vanadium	4.0646	3.8390	150.0	153.0	ug/L	2	10	
Zinc	1.2624	0.4047	150.0	155.2	ug/L	3	10	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	589256	3.96
Scandium	419934	441137	5.05
Germanium	79792	89884	12.65
Indium	561698	542647	-3.39
Bismuth	398573	362193	-9.13

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56228694045
Cal : 56228694001
Standards: S3621

File : f0719045
Caldate: 07-JUN-2006

IDF : 1.0
Time : 07-JUN-2006 23:40

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3349	0.7375	150.0	233.3	ug/L	**56**	10	>LR c+ ***
Antimony	0.2211	0.2061	150.0	154.6	ug/L	3	10	
Arsenic	0.3839	0.3810	150.0	158.2	ug/L	5	10	i+
Barium	0.0894	0.0830	150.0	149.3	ug/L	0	10	
Beryllium	0.1009	0.1242	150.0	188.9	ug/L	**26**	10	c+ ***
Cadmium	0.4255	0.3069	150.0	135.9	ug/L	-9	10	i+
Calcium	0.0201	0.0166	15000	15720	ug/L	5	10	
Chromium	4.6173	2.7569	150.0	132.3	ug/L	**-12**	10	c- i+ ***
Cobalt	3.4688	3.4212	150.0	149.4	ug/L	0	10	i+
Copper	0.9448	0.7745	150.0	154.6	ug/L	3	10	i+
Iron	0.0990	0.0792	15000	14260	ug/L	-5	10	i+
Lead	0.8850	0.8477	150.0	153.4	ug/L	2	10	
Magnesium	0.0547	0.0799	15000	21210	ug/L	**41**	10	>LR c+ ***
Manganese	4.4493	3.7644	150.0	140.1	ug/L	-7	10	i+
Molybdenum	0.7867	0.7087	150.0	144.7	ug/L	-4	10	i+
Nickel	0.9575	0.6954	150.0	149.2	ug/L	-1	10	i+
Potassium	0.8334	0.6020	15000	17500	ug/L	**17**	10	c+ ***
Selenium	0.0317	0.0279	150.0	152.2	ug/L	1	10	i+
Silver	1.7750	1.4850	150.0	135.5	ug/L	-10	10	i+
Sodium	0.7366	0.8619	15000	20880	ug/L	**39**	10	>LR c+ ***
Thallium	0.6316	0.6275	150.0	146.2	ug/L	-3	10	
Vanadium	4.0646	3.4558	150.0	137.7	ug/L	-8	10	i+
Zinc	1.2624	0.3930	150.0	150.6	ug/L	0	10	i+

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	646109	13.99
Scandium	419934	458284	9.13
Germanium	79792	99594	**24.82 ***
Indium	561698	564032	0.42
Bismuth	398573	365276	-8.35

+=high bias -=low bias >LR=overrange c=CCV i=ISTD failure

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56228694060
Cal : 56228694001
Standards: S3621

File : f0719060
Caldate: 07-JUN-2006

IDF : 1.0
Time : 08-JUN-2006 01:04

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3349	0.7624	150.0	241.2	ug/L	**61**	10	>LR c+ ***
Antimony	0.2211	0.2061	150.0	154.7	ug/L	3	10	
Arsenic	0.3839	0.3828	150.0	159.0	ug/L	6	10	i+
Barium	0.0894	0.0826	150.0	148.5	ug/L	-1	10	
Beryllium	0.1009	0.1253	150.0	190.6	ug/L	**27**	10	c+ ***
Cadmium	0.4255	0.3019	150.0	133.7	ug/L	**-11**	10	c- i+ ***
Calcium	0.0201	0.0168	15000	15900	ug/L	6	10	
Chromium	4.6173	2.8702	150.0	137.8	ug/L	-8	10	i+
Cobalt	3.4688	3.4153	150.0	149.1	ug/L	-1	10	i+
Copper	0.9448	0.7729	150.0	154.3	ug/L	3	10	i+
Iron	0.0990	0.0790	15000	14230	ug/L	-5	10	i+
Lead	0.8850	0.8348	150.0	151.0	ug/L	1	10	
Magnesium	0.0547	0.0811	15000	21520	ug/L	**43**	10	>LR c+ ***
Manganese	4.4493	3.7320	150.0	138.9	ug/L	-7	10	i+
Molybdenum	0.7867	0.7045	150.0	143.9	ug/L	-4	10	i+
Nickel	0.9575	0.6978	150.0	149.7	ug/L	0	10	i+
Potassium	0.8334	0.6075	15000	17660	ug/L	**18**	10	c+ ***
Selenium	0.0317	0.0277	150.0	151.1	ug/L	1	10	i+
Silver	1.7750	1.4735	150.0	134.4	ug/L	-10	10	i+
Sodium	0.7366	0.8769	15000	21250	ug/L	**42**	10	>LR c+ ***
Thallium	0.6316	0.6191	150.0	144.3	ug/L	-4	10	
Vanadium	4.0646	3.4979	150.0	139.4	ug/L	-7	10	i+
Zinc	1.2624	0.3917	150.0	150.1	ug/L	0	10	i+

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	669362	18.09
Scandium	419934	472200	12.45
Germanium	79792	103053	**29.15 ***
Indium	561698	574789	2.33
Bismuth	398573	368073	-7.65

+=high bias -=low bias >LR=overrange c=CCV i=ISTD failure

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694067 File : f0719067 Time : 08-JUN-2006 01:43
Cal : 56228694001 Caldate: 07-JUN-2006
Standards: S3621

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3349	0.7221	150.0	228.3	ug/L	**52**	10	>LR c+ ***
Antimony	0.2211	0.2095	150.0	157.2	ug/L	5	10	
Arsenic	0.3839	0.3810	150.0	158.2	ug/L	5	10	i+
Barium	0.0894	0.0851	150.0	153.0	ug/L	2	10	
Beryllium	0.1009	0.1215	150.0	184.7	ug/L	**23**	10	c+ ***
Cadmium	0.4255	0.3091	150.0	136.9	ug/L	-9	10	i+
Calcium	0.0201	0.0166	15000	15790	ug/L	5	10	
Chromium	4.6173	2.9957	150.0	143.8	ug/L	-4	10	i+
Cobalt	3.4688	3.5741	150.0	156.1	ug/L	4	10	i+
Copper	0.9448	0.7875	150.0	157.2	ug/L	5	10	i+
Iron	0.0990	0.0833	15000	15000	ug/L	0	10	i+
Lead	0.8850	0.8388	150.0	151.7	ug/L	1	10	
Magnesium	0.0547	0.0752	15000	19970	ug/L	**33**	10	c+ ***
Manganese	4.4493	3.9101	150.0	145.5	ug/L	-3	10	i+
Molybdenum	0.7867	0.7082	150.0	144.6	ug/L	-4	10	i+
Nickel	0.9575	0.7231	150.0	155.2	ug/L	3	10	i+
Potassium	0.8334	0.5897	15000	17150	ug/L	**14**	10	c+ ***
Selenium	0.0317	0.0273	150.0	148.9	ug/L	-1	10	i+
Silver	1.7750	1.4985	150.0	136.7	ug/L	-9	10	i+
Sodium	0.7366	0.8229	15000	19940	ug/L	**33**	10	c+ ***
Thallium	0.6316	0.6248	150.0	145.6	ug/L	-3	10	
Vanadium	4.0646	3.6857	150.0	146.9	ug/L	-2	10	i+
Zinc	1.2624	0.4015	150.0	153.9	ug/L	3	10	i+

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	614815	8.46
Scandium	419934	453713	8.04
Germanium	79792	96086	**20.42 ***
Indium	561698	549478	-2.18
Bismuth	398573	357278	-10.36

+=high bias >LR=overrange c=CCV i=ISTD failure

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694084 File : f0719084 Time : 08-JUN-2006 03:18
Cal : 56228694001 Caldate: 07-JUN-2006
Standards: S3621

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3349	0.7045	150.0	222.7	ug/L	**48**	10	>LR c+ ***
Antimony	0.2211	0.2100	150.0	157.6	ug/L	5	10	
Arsenic	0.3839	0.3842	150.0	159.6	ug/L	6	10	
Barium	0.0894	0.0840	150.0	151.1	ug/L	1	10	
Beryllium	0.1009	0.1252	150.0	190.4	ug/L	**27**	10	c+ ***
Cadmium	0.4255	0.3033	150.0	134.3	ug/L	-10	10	
Calcium	0.0201	0.0170	15000	16140	ug/L	8	10	
Chromium	4.6173	2.7967	150.0	134.2	ug/L	**-11**	10	c- ***
Cobalt	3.4688	3.5324	150.0	154.3	ug/L	3	10	
Copper	0.9448	0.7865	150.0	157.0	ug/L	5	10	
Iron	0.0990	0.0821	15000	14780	ug/L	-1	10	
Lead	0.8850	0.8340	150.0	150.9	ug/L	1	10	
Magnesium	0.0547	0.0795	15000	21090	ug/L	**41**	10	>LR c+ ***
Manganese	4.4493	3.9191	150.0	145.9	ug/L	-3	10	
Molybdenum	0.7867	0.7065	150.0	144.3	ug/L	-4	10	
Nickel	0.9575	0.7119	150.0	152.7	ug/L	2	10	
Potassium	0.8334	0.6102	15000	17750	ug/L	**18**	10	c+ ***
Selenium	0.0317	0.0281	150.0	153.1	ug/L	2	10	
Silver	1.7750	1.4784	150.0	134.9	ug/L	-10	10	
Sodium	0.7366	0.8642	15000	20940	ug/L	**40**	10	>LR c+ ***
Thallium	0.6316	0.6201	150.0	144.5	ug/L	-4	10	
Vanadium	4.0646	3.5678	150.0	142.2	ug/L	-5	10	
Zinc	1.2624	0.3999	150.0	153.3	ug/L	2	10	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	577783	1.93
Scandium	419934	421962	0.48
Germanium	79792	91670	14.89
Indium	561698	508342	-9.50
Bismuth	398573	323706	-18.78

+=high bias -=low bias >LR=overrange c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694097 File : f0809006 Time : 08-JUN-2006 10:26
Cal : 56228694001 Caldate: 07-JUN-2006
Standards: S3602, S3310

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3349	0.6660	100.0	139.3	ug/L	**39**	10	c+ ***
Antimony	0.2211	0.2121	100.0	106.1	ug/L	6	10	
Arsenic	0.3839	0.3838	100.0	106.2	ug/L	6	10	
Barium	0.0894	0.0869	100.0	104.2	ug/L	4	10	
Beryllium	0.1009	0.1180	100.0	119.6	ug/L	**20**	10	c+ ***
Cadmium	0.4255	0.3142	100.0	92.72	ug/L	-7	10	
Calcium	0.0201	0.0172	10000	10840	ug/L	8	10	
Chromium	4.6173	2.9441	100.0	93.97	ug/L	-6	10	
Cobalt	3.4688	3.3439	100.0	97.34	ug/L	-3	10	
Copper	0.9448	0.7982	100.0	106.1	ug/L	6	10	
Iron	0.0990	0.0871	10000	10450	ug/L	5	10	
Lead	0.8850	0.8789	100.0	106.0	ug/L	6	10	
Magnesium	0.0547	0.0736	10000	13020	ug/L	**30**	10	c+ ***
Manganese	4.4493	3.8248	100.0	94.87	ug/L	-5	10	
Molybdenum	0.7867	0.7040	100.0	95.82	ug/L	-4	10	
Nickel	0.9575	0.7295	100.0	104.3	ug/L	4	10	
Potassium	0.8334	0.5908	10000	11420	ug/L	**14**	10	c+ ***
Selenium	0.0317	0.0274	100.0	99.59	ug/L	0	10	
Silver	1.7750	1.5137	100.0	92.05	ug/L	-8	10	
Sodium	0.7366	0.8083	10000	13050	ug/L	**31**	10	c+ ***
Thallium	0.6316	0.6037	50.00	46.85	ug/L	-6	10	
Vanadium	4.0646	3.4061	100.0	90.44	ug/L	-10	10	
Zinc	1.2624	0.4113	100.0	104.4	ug/L	4	10	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	567061	0.04
Scandium	419934	415004	-1.17
Germanium	79792	86364	8.24
Indium	561698	494811	-11.91
Bismuth	398573	324412	-18.61

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694113 File : f0809022 Time : 08-JUN-2006 12:06
Cal : 56228694001 Caldate: 07-JUN-2006
Standards: S3621, S3310

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3349	0.7145	150.0	225.9	ug/L	**51**	10	>LR c+ ***
Antimony	0.2211	0.2094	150.0	157.1	ug/L	5	10	
Arsenic	0.3839	0.3783	150.0	157.1	ug/L	5	10	
Barium	0.0894	0.0863	150.0	155.2	ug/L	3	10	
Beryllium	0.1009	0.1240	150.0	188.5	ug/L	**26**	10	c+ ***
Cadmium	0.4255	0.2965	150.0	131.3	ug/L	**-12**	10	c- ***
Calcium	0.0201	0.0169	15000	16020	ug/L	7	10	
Chromium	4.6173	2.7447	150.0	131.7	ug/L	**-12**	10	c- ***
Cobalt	3.4688	3.4957	150.0	152.7	ug/L	2	10	
Copper	0.9448	0.7794	150.0	155.6	ug/L	4	10	
Iron	0.0990	0.0811	15000	14600	ug/L	-3	10	
Lead	0.8850	0.8411	150.0	152.2	ug/L	1	10	
Magnesium	0.0547	0.0815	15000	21630	ug/L	**44**	10	>LR c+ ***
Manganese	4.4493	3.8833	150.0	144.5	ug/L	-4	10	
Molybdenum	0.7867	0.6915	150.0	141.2	ug/L	-6	10	
Nickel	0.9575	0.7044	150.0	151.1	ug/L	1	10	
Potassium	0.8334	0.6059	15000	17620	ug/L	**17**	10	c+ ***
Selenium	0.0317	0.0275	150.0	149.7	ug/L	0	10	
Silver	1.7750	1.4515	150.0	132.4	ug/L	**-12**	10	c- ***
Sodium	0.7366	0.8879	15000	21510	ug/L	**43**	10	>LR c+ ***
Thallium	0.6316	0.6208	150.0	144.6	ug/L	-4	10	
Vanadium	4.0646	3.5360	150.0	140.9	ug/L	-6	10	
Zinc	1.2624	0.3957	150.0	151.7	ug/L	1	10	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	597224	5.36
Scandium	419934	415666	-1.02
Germanium	79792	90338	13.22
Indium	561698	500058	-10.97
Bismuth	398573	329983	-17.21

+=high bias -=low bias >LR=overrange c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694124 File : f0809033 Time : 08-JUN-2006 13:08
Cal : 56228694001 Caldate: 07-JUN-2006
Standards: S3602, S3310

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3349	0.6192	100.0	129.3	ug/L	**29**	10	c+ ***
Antimony	0.2211	0.2097	100.0	104.9	ug/L	5	10	
Arsenic	0.3839	0.3816	100.0	105.6	ug/L	6	10	
Barium	0.0894	0.0873	100.0	104.7	ug/L	5	10	
Beryllium	0.1009	0.1192	100.0	120.8	ug/L	**21**	10	c+ ***
Cadmium	0.4255	0.3139	100.0	92.64	ug/L	-7	10	
Calcium	0.0201	0.0171	10000	10800	ug/L	8	10	
Chromium	4.6173	2.9165	100.0	93.09	ug/L	-7	10	
Cobalt	3.4688	3.3431	100.0	97.32	ug/L	-3	10	
Copper	0.9448	0.7969	100.0	105.9	ug/L	6	10	
Iron	0.0990	0.0863	10000	10350	ug/L	4	10	
Lead	0.8850	0.8732	100.0	105.3	ug/L	5	10	
Magnesium	0.0547	0.0753	10000	13330	ug/L	**33**	10	c+ ***
Manganese	4.4493	3.8066	100.0	94.42	ug/L	-6	10	
Molybdenum	0.7867	0.6867	100.0	93.48	ug/L	-7	10	
Nickel	0.9575	0.7307	100.0	104.4	ug/L	4	10	
Potassium	0.8334	0.5932	10000	11470	ug/L	**15**	10	c+ ***
Selenium	0.0317	0.0278	100.0	100.9	ug/L	1	10	
Silver	1.7750	1.5111	100.0	91.90	ug/L	-8	10	
Sodium	0.7366	0.8284	10000	13370	ug/L	**34**	10	c+ ***
Thallium	0.6316	0.6212	50.00	48.21	ug/L	-4	10	
Vanadium	4.0646	3.4021	100.0	90.33	ug/L	-10	10	
Zinc	1.2624	0.4095	100.0	103.9	ug/L	4	10	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	536084	-5.42
Scandium	419934	383999	-8.56
Germanium	79792	80170	0.47
Indium	561698	462109	-17.73
Bismuth	398573	323870	-18.74

+=high bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56228694013
Cal : 56228694001

File : f0719013
Caldate: 07-JUN-2006

IDF : 1.0
Time : 07-JUN-2006 20:42

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	0.8437	0.5000	2.123	ug/L	ib ***
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.1528]	0.5000	0.03860	ug/L	!ib
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	[12.47]	50.00	9.919	ug/L	!ib
Thallium	[0.1600]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	579739	2.28
Scandium	419934	431764	2.82
Germanium	79792	82073	2.86
Indium	561698	564734	0.54
Bismuth	398573	393207	-1.35

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694032 File : f0719032 Time : 07-JUN-2006 22:28
Cal : 56228694001 Caldate: 07-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	8.806	0.5000	2.123	ug/L	ib ***
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.03442]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	[30.73]	50.00	7.739	ug/L	!ib
Chromium	[0.09208]	0.5000	0.03860	ug/L	!ib
Cobalt	[0.03827]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	[26.05]	50.00	6.980	ug/L	!ib
Lead	[0.01264]	0.2500	0.005283	ug/L	!ib
Magnesium	[17.23]	50.00	3.054	ug/L	!ib
Manganese	[0.07090]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	[32.45]	50.00	6.379	ug/L	!ib
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	78.77	50.00	9.919	ug/L	ib ***
Thallium	[0.2129]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	585541	3.30
Scandium	419934	435921	3.81
Germanium	79792	89095	11.66
Indium	561698	549915	-2.10
Bismuth	398573	365191	-8.38

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56228694047 File : f0719047
Cal : 56228694001 Caldate: 07-JUN-2006

IDF : 1.0
Time : 07-JUN-2006 23:51

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	5.736	0.5000	2.123	ug/L	ib ***
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	[0.04004]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.05594]	0.2500	0.009674	ug/L	!ib
Cadmium	[0.1037]	0.2500	0.04566	ug/L	!ib
Calcium	[23.44]	50.00	7.739	ug/L	!ib
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.04676]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	[20.27]	50.00	6.980	ug/L	!ib
Lead	[0.02953]	0.2500	0.005283	ug/L	!ib
Magnesium	[21.35]	50.00	3.054	ug/L	!ib
Manganese	[0.06760]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.04318]	0.2500	0.03982	ug/L	!ib
Potassium	[26.18]	50.00	6.379	ug/L	!ib
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.04026]	0.2500	0.01266	ug/L	!ib
Sodium	50.65	50.00	9.919	ug/L	ib ***
Thallium	[0.3768]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	630393	11.21
Scandium	419934	454676	8.27
Germanium	79792	95329	19.47
Indium	561698	556845	-0.86
Bismuth	398573	356384	-10.59

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56228694063 File : f0719063
Cal : 56228694001 Caldate: 07-JUN-2006

IDF : 1.0
Time : 08-JUN-2006 01:21

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	6.317	0.5000	2.123	ug/L	ib ***
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	i+
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.02560]	0.2500	0.009674	ug/L	!ib
Cadmium	[0.06523]	0.2500	0.04566	ug/L	!ib i+
Calcium	[20.65]	50.00	7.739	ug/L	!ib
Chromium	ND	0.5000	0.03860	ug/L	i+
Cobalt	[0.02356]	0.2500	0.008548	ug/L	!ib i+
Copper	ND	0.5000	0.04426	ug/L	i+
Iron	[16.35]	50.00	6.980	ug/L	!ib i+
Lead	[0.01239]	0.2500	0.005283	ug/L	!ib
Magnesium	[20.55]	50.00	3.054	ug/L	!ib
Manganese	[0.05713]	0.2500	0.01838	ug/L	!ib i+
Molybdenum	ND	0.5000	0.4994	ug/L	i+
Nickel	ND	0.2500	0.03982	ug/L	i+
Potassium	[24.56]	50.00	6.379	ug/L	!ib
Selenium	ND	0.5000	0.1891	ug/L	i+
Silver	[0.02839]	0.2500	0.01266	ug/L	!ib i+
Sodium	68.73	50.00	9.919	ug/L	ib ***
Thallium	[0.1624]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	i+
Zinc	ND	0.5000	0.09577	ug/L	i+

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	665970	17.49
Scandium	419934	467206	11.26
Germanium	79792	100307	**25.71 ***
Indium	561698	572606	1.94
Bismuth	398573	359429	-9.82

!=warning +=high bias i=ISTD failure ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694069 File : f0719069 Time : 08-JUN-2006 01:54
Cal : 56228694001 Caldate: 07-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	14.85	0.5000	2.123	ug/L	ib ***
Antimony	[0.04347]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	[0.06836]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.08427]	0.2500	0.009674	ug/L	!ib
Cadmium	[0.07975]	0.2500	0.04566	ug/L	!ib
Calcium	[42.22]	50.00	7.739	ug/L	!ib
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.07223]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	[35.64]	50.00	6.980	ug/L	!ib
Lead	[0.05510]	0.2500	0.005283	ug/L	!ib
Magnesium	[35.42]	50.00	3.054	ug/L	!ib
Manganese	[0.09481]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.04997]	0.2500	0.03982	ug/L	!ib
Potassium	[37.41]	50.00	6.379	ug/L	!ib
Selenium	[0.2771]	0.5000	0.1891	ug/L	!ib
Silver	[0.04576]	0.2500	0.01266	ug/L	!ib
Sodium	100.1	50.00	9.919	ug/L	ib ***
Thallium	[0.3561]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	623227	9.95
Scandium	419934	443496	5.61
Germanium	79792	95152	19.25
Indium	561698	553396	-1.48
Bismuth	398573	355768	-10.74

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694087 File : f0719087 Time : 08-JUN-2006 03:35
Cal : 56228694001 Caldate: 07-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	2.064	0.5000	2.123	ug/L	ib ***
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.02617]	0.2500	0.009674	ug/L	!ib
Cadmium	[0.05490]	0.2500	0.04566	ug/L	!ib
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.01813]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	[9.586]	50.00	6.980	ug/L	!ib
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	[6.692]	50.00	3.054	ug/L	!ib
Manganese	[0.08425]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	[26.49]	50.00	6.379	ug/L	!ib
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	[16.77]	50.00	9.919	ug/L	!ib
Thallium	[0.2077]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	598292	5.55
Scandium	419934	423876	0.94
Germanium	79792	91533	14.71
Indium	561698	521935	-7.08
Bismuth	398573	326804	-18.01

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694101 File : f0809010 Time : 08-JUN-2006 10:59
Cal : 56228694001 Caldate: 07-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	5.069	0.5000	2.123	ug/L	ib ***
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.01286]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	[8.203]	50.00	7.739	ug/L	!ib
Chromium	[0.04748]	0.5000	0.03860	ug/L	!ib
Cobalt	[0.01351]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	[13.93]	50.00	6.980	ug/L	!ib
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	[7.676]	50.00	3.054	ug/L	!ib
Manganese	[0.02270]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	[23.07]	50.00	6.379	ug/L	!ib
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	[15.02]	50.00	9.919	ug/L	!ib
Thallium	[0.06833]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	579134	2.17
Scandium	419934	407500	-2.96
Germanium	79792	86457	8.35
Indium	561698	500042	-10.98
Bismuth	398573	322090	-19.19

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694116 File : f0809025 Time : 08-JUN-2006 12:23
Cal : 56228694001 Caldate: 07-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	1.568	0.5000	2.123	ug/L	ib ***
Antimony	[0.07170]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	[0.09717]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.09909]	0.2500	0.009674	ug/L	!ib
Cadmium	[0.1333]	0.2500	0.04566	ug/L	!ib
Calcium	[7.751]	50.00	7.739	ug/L	!ib
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.09341]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	[15.15]	50.00	6.980	ug/L	!ib
Lead	[0.06644]	0.2500	0.005283	ug/L	!ib
Magnesium	[14.29]	50.00	3.054	ug/L	!ib
Manganese	[0.1005]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.06584]	0.2500	0.03982	ug/L	!ib
Potassium	[28.80]	50.00	6.379	ug/L	!ib
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.07544]	0.2500	0.01266	ug/L	!ib
Sodium	[14.13]	50.00	9.919	ug/L	!ib
Thallium	1.071	0.5000	0.02100	ug/L	ib ***
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	606056	6.92
Scandium	419934	407786	-2.89
Germanium	79792	88718	11.19
Indium	561698	502654	-10.51
Bismuth	398573	331114	-16.93

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694126 File : f0809035 Time : 08-JUN-2006 13:19
Cal : 56228694001 Caldate: 07-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	3.782	0.5000	2.123	ug/L	ib ***
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.01964]	0.2500	0.009674	ug/L	!ib
Cadmium	[0.1070]	0.2500	0.04566	ug/L	!ib
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.01422]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	[12.37]	50.00	6.980	ug/L	!ib
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	[6.245]	50.00	3.054	ug/L	!ib
Manganese	[0.02122]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	[19.13]	50.00	6.379	ug/L	!ib
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	550261	-2.92
Scandium	419934	385046	-8.31
Germanium	79792	81036	1.56
Indium	561698	474062	-15.60
Bismuth	398573	330687	-17.03

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05
Seqnum : 56228694014 File : f0719014
Cal : 56228694001 Caldate: 07-JUN-2006
Standards: S3612, S3310

IDF : 1.0
Time : 07-JUN-2006 20:47

Analyte	Quant	RL	Units	Flags
Antimony	2.177	0.2500	ug/L	
Arsenic	0.9634	0.5000	ug/L	
Barium	0.9734	0.2500	ug/L	
Beryllium	[0.02727]	0.2500	ug/L	
Cadmium	[0.06097]	0.2500	ug/L	
Chromium	1.425	0.5000	ug/L	
Cobalt	2.610	0.2500	ug/L	
Copper	1.923	0.5000	ug/L	
Lead	1.218	0.2500	ug/L	
Manganese	1.012	0.2500	ug/L	
Nickel	1.618	0.2500	ug/L	
Selenium	0.5301	0.5000	ug/L	
Silver	[0.1596]	0.2500	ug/L	
Thallium	[0.1666]	0.5000	ug/L	
Vanadium	[0]	0.5000	ug/L	
Zinc	3.183	0.5000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	97640	ug/L	98
Calcium	300000	295700	ug/L	99
Iron	250000	235500	ug/L	94
Magnesium	100000	99930	ug/L	100
Molybdenum	2000	1996	ug/L	100
Potassium	100000	99510	ug/L	100
Sodium	250000	247600	ug/L	99

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	513772	-9.36
Scandium	419934	395752	-5.76
Germanium	79792	75735	-5.08
Indium	561698	451332	-19.65
Bismuth	398573	302884	-24.01

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05
Seqnum : 56228694015 File : f0719015
Cal : 56228694001 Caldate: 07-JUN-2006
Standards: S3620, S3310

IDF : 1.0
Time : 07-JUN-2006 20:53

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	100300	ug/L	0		
Arsenic	100.0	107.4	ug/L	7	20	
Cadmium	100.0	95.12	ug/L	-5	20	
Calcium	300000	296400	ug/L	-1		
Chromium	200.0	216.6	ug/L	8	20	
Cobalt	200.0	214.0	ug/L	7	20	
Copper	200.0	201.4	ug/L	1	20	
Iron	250000	232600	ug/L	-7		
Magnesium	100000	103100	ug/L	3		
Manganese	200.0	216.1	ug/L	8	20	
Molybdenum	2000	1982	ug/L	-1		
Nickel	200.0	201.9	ug/L	1	20	
Potassium	100000	99600	ug/L	0		
Selenium	100.0	92.09	ug/L	-8	20	
Silver	50.00	48.80	ug/L	-2	20	
Sodium	250000	253900	ug/L	2		
Vanadium	200.0	222.5	ug/L	11	20	
Zinc	100.0	106.4	ug/L	6	20	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Scandium	419934	385470	-8.21
Germanium	79792	76933	-3.58

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05
Seqnum : 56228694064 File : f0719064
Cal : 56228694001 Caldate: 07-JUN-2006
Standards: S3602, S3310

IDF : 1.0
Time : 08-JUN-2006 01:27

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100.0	112500	ug/L	112500
Antimony	100.0	2.161	ug/L	2
Arsenic	100.0	1.135	ug/L	1
Barium	100.0	0.9741	ug/L	1
Beryllium	100.0	0.03779	ug/L	0
Cadmium	100.0	0.08293	ug/L	0
Calcium	10000	294500	ug/L	2945
Chromium	100.0	1.489	ug/L	1
Cobalt	100.0	2.544	ug/L	3
Copper	100.0	1.904	ug/L	2
Iron	10000	224100	ug/L	2241
Lead	100.0	1.221	ug/L	1
Magnesium	10000	115400	ug/L	1154
Manganese	100.0	0.9974	ug/L	1
Molybdenum	100.0	1876	ug/L	1876
Nickel	100.0	1.886	ug/L	2
Potassium	10000	104900	ug/L	1049
Selenium	100.0	0.5467	ug/L	1
Silver	100.0	0.1536	ug/L	0
Sodium	10000	279700	ug/L	2797
Thallium	50.00	0.2211	ug/L	0
Vanadium	100.0	0.1856	ug/L	0
Zinc	100.0	3.421	ug/L	3

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	582442	2.75
Scandium	419934	446502	6.33
Germanium	79792	92559	16.00
Indium	561698	488271	-13.07
Bismuth	398573	302387	-24.13

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05
Seqnum : 56228694065 File : f0719065
Cal : 56228694001 Caldate: 07-JUN-2006
Standards: S3620, S3310

IDF : 1.0
Time : 08-JUN-2006 01:32

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	118500	ug/L	19		
Arsenic	100.0	110.1	ug/L	10	20	
Cadmium	100.0	86.07	ug/L	-14	20	
Calcium	300000	298900	ug/L	0		
Chromium	200.0	203.4	ug/L	2	20	
Cobalt	200.0	208.4	ug/L	4	20	
Copper	200.0	199.4	ug/L	0	20	
Iron	250000	223200	ug/L	-11		
Magnesium	100000	120300	ug/L	20		
Manganese	200.0	203.7	ug/L	2	20	
Molybdenum	2000	1868	ug/L	-7		
Nickel	200.0	200.9	ug/L	0	20	
Potassium	100000	106800	ug/L	7		
Selenium	100.0	91.82	ug/L	-8	20	
Silver	50.00	44.01	ug/L	-12	20	
Sodium	250000	291200	ug/L	16		
Vanadium	200.0	209.2	ug/L	5	20	
Zinc	100.0	104.1	ug/L	4	20	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Scandium	419934	426930	1.67
Germanium	79792	91421	14.57

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694094 File : f0809003 Time : 08-JUN-2006 10:10
Cal : 56228694001 Caldate: 07-JUN-2006
Standards: S3602, S3310

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100.0	115000	ug/L	115000
Antimony	100.0	2.162	ug/L	2
Arsenic	100.0	1.164	ug/L	1
Barium	100.0	0.8834	ug/L	1
Beryllium	100.0	0.01718	ug/L	0
Cadmium	100.0	0.1100	ug/L	0
Calcium	10000	298700	ug/L	2987
Chromium	100.0	1.310	ug/L	1
Cobalt	100.0	2.539	ug/L	3
Copper	100.0	1.833	ug/L	2
Iron	10000	225900	ug/L	2259
Lead	100.0	1.224	ug/L	1
Magnesium	10000	117400	ug/L	1174
Manganese	100.0	0.9350	ug/L	1
Molybdenum	100.0	1855	ug/L	1855
Nickel	100.0	1.795	ug/L	2
Potassium	10000	105600	ug/L	1056
Selenium	100.0	0.4877	ug/L	0
Silver	100.0	0.1057	ug/L	0
Sodium	10000	287400	ug/L	2874
Thallium	50.00	0.03476	ug/L	0
Vanadium	100.0	0.1758	ug/L	0
Zinc	100.0	3.032	ug/L	3

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	554376	-2.20
Scandium	419934	401473	-4.40
Germanium	79792	84385	5.76
Indium	561698	440467	-21.58
Bismuth	398573	269343	-32.42

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694095 File : f0809004 Time : 08-JUN-2006 10:15
Cal : 56228694001 Caldate: 07-JUN-2006
Standards: S3620, S3310

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	111600	ug/L	12		
Arsenic	100.0	107.2	ug/L	7	20	
Cadmium	100.0	85.20	ug/L	-15	20	
Calcium	300000	298000	ug/L	-1		
Chromium	200.0	208.6	ug/L	4	20	
Cobalt	200.0	211.3	ug/L	6	20	
Copper	200.0	197.6	ug/L	-1	20	
Iron	250000	227300	ug/L	-9		
Magnesium	100000	113300	ug/L	13		
Manganese	200.0	210.7	ug/L	5	20	
Molybdenum	2000	1872	ug/L	-6		
Nickel	200.0	198.2	ug/L	-1	20	
Potassium	100000	104100	ug/L	4		
Selenium	100.0	89.09	ug/L	-11	20	
Silver	50.00	43.40	ug/L	-13	20	
Sodium	250000	277300	ug/L	11		
Vanadium	200.0	215.1	ug/L	8	20	
Zinc	100.0	103.6	ug/L	4	20	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Scandium	419934	387981	-7.61
Germanium	79792	80524	0.92

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694121 File : f0809030 Time : 08-JUN-2006 12:51
Cal : 56228694001 Caldate: 07-JUN-2006
Standards: S3612, S3310

Analyte	Quant	RL	Units	Flags
Antimony	2.260	0.2500	ug/L	
Arsenic	1.087	0.5000	ug/L	
Barium	1.042	0.2500	ug/L	
Beryllium	[0.02819]	0.2500	ug/L	
Cadmium	[0.04515]	0.2500	ug/L	
Chromium	1.262	0.5000	ug/L	
Cobalt	2.591	0.2500	ug/L	
Copper	2.004	0.5000	ug/L	
Lead	1.286	0.2500	ug/L	
Manganese	1.372	0.2500	ug/L	
Nickel	1.903	0.2500	ug/L	
Selenium	[0.3583]	0.5000	ug/L	
Silver	[0.1224]	0.2500	ug/L	
Thallium	[0.1572]	0.5000	ug/L	
Vanadium	[0.1177]	0.5000	ug/L	
Zinc	3.375	0.5000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	120700	ug/L	121
Calcium	300000	300000	ug/L	100
Iron	250000	225300	ug/L	90
Magnesium	100000	123300	ug/L	123
Molybdenum	2000	1861	ug/L	93
Potassium	100000	107700	ug/L	108
Sodium	250000	302600	ug/L	121

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	505559	-10.81
Scandium	419934	368241	-12.31
Germanium	79792	78395	-1.75
Indium	561698	415712	-25.99
Bismuth	398573	269798	-32.31

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694122 File : f0809031 Time : 08-JUN-2006 12:57
Cal : 56228694001 Caldate: 07-JUN-2006
Standards: S3620, S3310

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	118400	ug/L	18		
Arsenic	100.0	107.8	ug/L	8	20	
Cadmium	100.0	86.61	ug/L	-13	20	
Calcium	300000	299100	ug/L	0		
Chromium	200.0	207.1	ug/L	4	20	
Cobalt	200.0	211.4	ug/L	6	20	
Copper	200.0	199.0	ug/L	-1	20	
Iron	250000	227000	ug/L	-9		
Magnesium	100000	121400	ug/L	21		
Manganese	200.0	206.8	ug/L	3	20	
Molybdenum	2000	1863	ug/L	-7		
Nickel	200.0	200.8	ug/L	0	20	
Potassium	100000	105900	ug/L	6		
Selenium	100.0	88.98	ug/L	-11	20	
Silver	50.00	43.87	ug/L	-12	20	
Sodium	250000	297000	ug/L	19		
Vanadium	200.0	214.8	ug/L	7	20	
Zinc	100.0	103.6	ug/L	4	20	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Scandium	419934	352589	-16.04
Germanium	79792	74494	-6.64

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56228694 Instrument: MET05 Agilent ICP-MS Begun: 07-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	f0719001	TUN				07-JUN-2006 19:34	1.0	1.0				1	
002	f0719002	X	RINSE			07-JUN-2006 19:40	1.0					2	
003	f0719003	ICALBLK	STD-BLK			07-JUN-2006 19:46	1.0	1.0				2	
004	f0719004	ICAL	CS1			07-JUN-2006 19:51	1.0	1.0				3	
005	f0719005	ICAL	CS2			07-JUN-2006 19:57	1.0	1.0				4	
006	f0719006	ICAL	CS3			07-JUN-2006 20:03	1.0	1.0				5	
007	f0719007	ICAL	CS4			07-JUN-2006 20:08	1.0	1.0				6	
008	f0719008	ICAL	CS5			07-JUN-2006 20:14	1.0	1.0				7	
009	f0719009	ICAL	CS6			07-JUN-2006 20:19	1.0	1.0				8	
010	f0719010	ICV				07-JUN-2006 20:25	1.0	1.0			1	9	
011	f0719011	X	RINSE			07-JUN-2006 20:30	1.0					2	
012	f0719012	X				07-JUN-2006 20:36	1.0	1.0	1		1	2	
013	f0719013	ICB				07-JUN-2006 20:42	1.0	1.0	1		1	2	
014	f0719014	ICSA				07-JUN-2006 20:47	1.0	1.0			1	10 2	7:CA=295700
015	f0719015	ICSAB				07-JUN-2006 20:53	1.0	1.0			1	11 2	13:CA=296400
016	f0719016	X	RINSE			07-JUN-2006 20:58	1.0					2	
017	f0719017	X	RINSE			07-JUN-2006 21:04	1.0					2	
018	f0719018	SAMPLE	187020-012	113955	Water	07-JUN-2006 21:10	1.0	1.0	6		1	2	5:NA=55240.0
019	f0719019	SAMPLE	187020-013	113955	Water	07-JUN-2006 21:15	1.0	1.0	5		1	2	4:MG=80420.0
020	f0719020	SAMPLE	187020-014	113955	Water	07-JUN-2006 21:21	1.0	1.0	7		1	2	6:NA=179600
021	f0719021	SAMPLE	187020-015	113955	Water	07-JUN-2006 21:26	1.0	1.0	9		1	2	8:NA=227000
022	f0719022	X	RINSE			07-JUN-2006 21:32	1.0					2	
023	f0719023	BLANK	QC342089	113957	Filtra	07-JUN-2006 21:37	1.0	1.0	5		1	2	
024	f0719024	BS	QC342090	113957	Filtra	07-JUN-2006 21:43	1.0	1.0	5		1	2	
025	f0719025	BSD	QC342091	113957	Filtra	07-JUN-2006 21:48	1.0	1.0	5		1	2	
026	f0719026	X	RINSE			07-JUN-2006 21:54	1.0					2	
027	f0719027	MSS	187112-002	113957	Filtra	07-JUN-2006 22:00	1.0	1.0	4		1	2	3:NA=57750.0
028	f0719028	X	RINSE			07-JUN-2006 22:05	1.0					2	
029	f0719029	CCV				07-JUN-2006 22:11	1.0	1.0	5		1	12	
031	f0719031	X				07-JUN-2006 22:22	1.0	1.0	2		1	2	

Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3621 13=S3085 14=S3602
Flags used: spk=5% spike rule

Analyst: KCarlyn Date: 6/8/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56228694 Instrument: MET05 Agilent ICP-MS Begun: 07-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	f0719032	CCB				07-JUN-2006 22:28	1.0	1.0	2		1	2	
033	f0719033	SER	QC342094	113957	Filtra	07-JUN-2006 22:33	5.0	1.0	3	1	1	2	
034	f0719034	MS	QC342092	113957	Filtra	07-JUN-2006 22:39	1.0	1.0	4		1	2	3:NA=69250.0
035	f0719035	MSD	QC342093	113957	Filtra	07-JUN-2006 22:44	1.0	1.0	4		1	2	3:NA=71430.0
036	f0719036	PDS	QC342095	113957	Filtra	07-JUN-2006 22:50	1.0	1.0	4		1	13	3:NA=70030.0
037	f0719037	X	RINSE			07-JUN-2006 22:55	1.0					2	
038	f0719038	SAMPLE	187020-017	113957	Filtra	07-JUN-2006 23:01	1.0	1.0	5		1	2	3:NA=73920.0
039	f0719039	SAMPLE	187020-018	113957	Filtra	07-JUN-2006 23:07	1.0	1.0	5		1	2	3:NA=80950.0
040	f0719040	SAMPLE	187020-019	113957	Filtra	07-JUN-2006 23:12	1.0	1.0	5		1	2	3:NA=102500
041	f0719041	SAMPLE	187020-020	113957	Filtra	07-JUN-2006 23:18	1.0	1.0	5		1	2	3:NA=101900
042	f0719042	SAMPLE	187112-003	113957	Filtra	07-JUN-2006 23:24	1.0	1.0	5		1	2	3:MG=477600
043	f0719043	SAMPLE	187112-004	113957	Filtra	07-JUN-2006 23:29	1.0	1.0	5		1	2	4:MG=269300
044	f0719044	X	RINSE			07-JUN-2006 23:35	1.0					2	
045	f0719045	CCV				07-JUN-2006 23:40	1.0	1.0	6		1	12	3:MG=21210.0
046	f0719046	X	RINSE			07-JUN-2006 23:46	1.0					2	
047	f0719047	CCB				07-JUN-2006 23:51	1.0	1.0	2		1	2	
048	f0719048	X				07-JUN-2006 23:57	1.0	1.0	1		1	2	
049	f0719049	SAMPLE	187112-005	113957	Water	08-JUN-2006 00:03	1.0	1.0	2		1	2	5:NA=184700
050	f0719050	SAMPLE	187112-006	113957	Filtra	08-JUN-2006 00:08	1.0	1.0	4		1	2	2:NA=273600
051	f0719051	SAMPLE	187112-007	113957	Filtra	08-JUN-2006 00:14	1.0	1.0	4		1	2	2:NA=285700
052	f0719052	SAMPLE	187112-008	113957	Filtra	08-JUN-2006 00:20	1.0	1.0	5		1	2	2:NA=251900
053	f0719053	SAMPLE	187112-009	113957	Filtra	08-JUN-2006 00:25	1.0	1.0	5		1	2	2:NA=282700
054	f0719054	SAMPLE	187112-010	113957	Filtra	08-JUN-2006 00:31	1.0	1.0	4		1	2	2:NA=159700
055	f0719055	SAMPLE	187112-011	113957	Filtra	08-JUN-2006 00:36	1.0	1.0	3		1	2	
056	f0719056	SAMPLE	187112-012	113957	Filtra	08-JUN-2006 00:42	1.0	1.0	7		1	2	4:NA=258300
057	f0719057	SAMPLE	187112-013	113957	Water	08-JUN-2006 00:48	1.0	1.0	4		1	2	
058	f0719058	SAMPLE	187137-001	113957	Filtra	08-JUN-2006 00:53	1.0	1.0	3		1	2	
059	f0719059	X	RINSE			08-JUN-2006 00:59	1.0					2	
060	f0719060	CCV				08-JUN-2006 01:04	1.0	1.0	6		1	12	3:MG=21520.0
061	f0719061	X	RINSE			08-JUN-2006 01:10	1.0					2	

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Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3621 13=S3085 14=S3602
Flags used: spk=5% spike rule

Analyst: KCarlyn Date: 6/8/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56228694 Instrument: MET05 Agilent ICP-MS Begun: 07-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used		>LR
062	f0719062	X				08-JUN-2006 01:15	1.0	1.0	2		1	2		
063	f0719063	CCB				08-JUN-2006 01:21	1.0	1.0	2		1	2		
064	f0719064	ICSA				08-JUN-2006 01:27	1.0	1.0			1	14 2		7:CA=294500
065	f0719065	ICSAB				08-JUN-2006 01:32	1.0	1.0			1	11 2		12:CA=298900
066	f0719066	X	RINSE			08-JUN-2006 01:38	1.0					2		
067	f0719067	CCV				08-JUN-2006 01:43	1.0	1.0	5		1	12		1:AL=228.300
068	f0719068	X	RINSE			08-JUN-2006 01:49	1.0					2		
069	f0719069	CCB				08-JUN-2006 01:54	1.0	1.0	2		1	2		
070	f0719070	X				08-JUN-2006 02:00	1.0	1.0	2		1	2		
071	f0719071	BLANK	QC342503	114058	Filtra	08-JUN-2006 02:06	1.0	1.0	4		1	2		
072	f0719072	BS	QC342504	114058	Filtra	08-JUN-2006 02:11	1.0	1.0	6	4	1	2	spk	
073	f0719073	BSD	QC342505	114058	Filtra	08-JUN-2006 02:17	1.0	1.0	6	5	1	2	spk	
074	f0719074	X	RINSE			08-JUN-2006 02:22	1.0					2		
075	f0719075	X	187061-013	114058	Filtra	08-JUN-2006 02:28	1.0	1.0	8		1	2	spk	6:CA=52260.0
076	f0719076	MS	QC342506	114058	Filtra	08-JUN-2006 02:34	1.0	1.0			1	2		6:CA=61250.0
077	f0719077	MSD	QC342507	114058	Filtra	08-JUN-2006 02:39	1.0	1.0			1	2		6:CA=61080.0
078	f0719078	X	RINSE			08-JUN-2006 02:45	1.0					2		
079	f0719079	X	187061-001	114058	Filtra	08-JUN-2006 02:50	1.0	1.0	1		1	2	spk	1:NA=38720.0
080	f0719080	X	187061-002	114058	Filtra	08-JUN-2006 02:56	1.0	1.0	1		1	2	spk	1:NA=36990.0
081	f0719081	X	187061-003	114058	Filtra	08-JUN-2006 03:02	1.0	1.0	1		1	2	spk	2:NA=47330.0
082	f0719082	X	187061-004	114058	Filtra	08-JUN-2006 03:07	1.0	1.0	1		1	2	spk	1:NA=56680.0
083	f0719083	X	RINSE			08-JUN-2006 03:13	1.0					2		
084	f0719084	CCV				08-JUN-2006 03:18	1.0	1.0	6		1	12		3:MG=21090.0
085	f0719085	X	RINSE			08-JUN-2006 03:24	1.0					2		
086	f0719086	X				08-JUN-2006 03:30	1.0	1.0	1		1	2		
087	f0719087	CCB				08-JUN-2006 03:35	1.0	1.0	1		1	2		
088	f0719088	X	187061-005	114058	Filtra	08-JUN-2006 03:41	1.0	1.0	1		1	2	spk	1:NA=27950.0
089	f0719089	X	187061-006	114058	Filtra	08-JUN-2006 03:47	1.0	1.0	1		1	2	spk	1:NA=31400.0
090	f0719090	X	187061-007	114058	Filtra	08-JUN-2006 03:52	1.0	1.0	1		1	2	spk	1:NA=36630.0
091	f0719091	X	187061-008	114058	Filtra	08-JUN-2006 03:58	1.0	1.0	1		1	2	spk	2:NA=21550.0

Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3621 13=S3085 14=S3602
Flags used: spk=5% spike rule

Analyst: A Carlson Date: 6/8/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56228694 Instrument: MET05 Agilent ICP-MS Begun: 07-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
092	f0809001	TUN				08-JUN-2006 09:58	1.0	1.0				1	
093	f0809002	X	RINSE			08-JUN-2006 10:04	1.0					2	
094	f0809003	ICSA				08-JUN-2006 10:10	1.0	1.0			1	14 2	7:CA=298700
095	f0809004	ICSAB				08-JUN-2006 10:15	1.0	1.0			1	11 2	11:CA=298000
096	f0809005	X	RINSE			08-JUN-2006 10:21	1.0					2	
097	f0809006	CCV				08-JUN-2006 10:26	1.0	1.0	5		1	14 2	
098	f0809007	X				08-JUN-2006 10:32	1.0					14 2	
099	f0809008	X	RINSE			08-JUN-2006 10:37	1.0					2	
100	f0809009	X				08-JUN-2006 10:43	1.0					2	
101	f0809010	CCB				08-JUN-2006 10:59	1.0	1.0	1		1	2	
102	f0809011	X	187112-005	113957	Water	08-JUN-2006 11:04	1.0					2	
103	f0809012	X	187112-006	113957	Filtra	08-JUN-2006 11:10	1.0					2	
104	f0809013	X	187112-007	113957	Filtra	08-JUN-2006 11:16	1.0					2	
105	f0809014	X	187112-008	113957	Filtra	08-JUN-2006 11:21	1.0					2	
106	f0809015	X	187112-009	113957	Filtra	08-JUN-2006 11:27	1.0					2	
107	f0809016	X	187112-010	113957	Filtra	08-JUN-2006 11:32	1.0					2	
108	f0809017	X	187112-011	113957	Filtra	08-JUN-2006 11:38	1.0					2	
109	f0809018	X	187112-012	113957	Filtra	08-JUN-2006 11:44	1.0					2	
110	f0809019	X	187112-013	113957	Water	08-JUN-2006 11:49	1.0					2	
111	f0809020	X	187137-001	113957	Filtra	08-JUN-2006 11:55	1.0					2	
112	f0809021	X	RINSE			08-JUN-2006 12:00	1.0					2	
113	f0809022	CCV				08-JUN-2006 12:06	1.0	1.0	8		1	12 2	3:MG=21630.0
114	f0809023	X	RINSE			08-JUN-2006 12:11	1.0					2	
115	f0809024	X				08-JUN-2006 12:17	1.0					14 2	
116	f0809025	CCB				08-JUN-2006 12:23	1.0	1.0	2		1	2	
117	f0809026	X				08-JUN-2006 12:29	1.0					14 2	
118	f0809027	X				08-JUN-2006 12:34	1.0					2	
119	f0809028	X				08-JUN-2006 12:40	1.0					2	
120	f0809029	SAMPLE	187020-014	113955	Water	08-JUN-2006 12:46	2.0 KC 6/9/06	1.0	10		1	2	5:NA=124700
121	f0809030	ICSA				08-JUN-2006 12:51	1.0	1.0			1	10 2	7:NA=302600

Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3621 13=S3085 14=S3602
Flags used: spk=5% spike rule

Analyst: K Carly Date: 6/8/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56228694 Instrument: MET05 Agilent ICP-MS Begun: 07-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
122	f0809031	ICSAB				08-JUN-2006 12:57	1.0	1.0			1	11 2	12:CA=299100
123	f0809032	X	RINSE			08-JUN-2006 13:02	1.0					2	
124	f0809033	CCV				08-JUN-2006 13:08	1.0	1.0	5		1	14 2	
125	f0809034	X	RINSE			08-JUN-2006 13:14	1.0					2	
126	f0809035	CCB				08-JUN-2006 13:19	1.0	1.0	1		1	2	

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Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3621 13=S3085 14=S3602
Flags used: spk=5% spike rule

Analyst: K Carlyn Date: 6/8/06

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 06-JUN-2006
Sequence: 56226997 (f0615)
Instrument ID: MET05

ICALBLK Filename: f0615003
Date Analyzed: 06-JUN-2006
Time Analyzed: 15:29

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD	409002	289167	59725	466498	483064	713607
LOWER LIMIT	122701	86750	17918	139949	144919	214082
UPPER LIMIT	490803	347000	71670	559798	579677	856328

TYPE	SAMPLE	#						
ICB		013	405030	290944	59491	466354	479114	713124
ICSA		014	337424	261874	52719	388104	386523	636202
SAMPLE	187072-010	018	412742	292786	61626	492719	512976	752212
SAMPLE	187070-007	019	303116	241743	47705	383577	376546	627086
SAMPLE	187070-009	020	386872	292762	56695	425196	396106	681591
SAMPLE	187070-009	022	442871	333333	63210	450973	406632	719436
SAMPLE	187070-007	023	415974	321448	61258	444879	413090	709222
CCV		026	384100	277360	58969	441948	455501	689881
CCB		029	391597	284453	59742	456195	471452	689919
ICSA		030	322707	251638	52181	381882	380000	617352
BLANK	QC342079	034	382501	265449	55626	394739	398608	596558
BS	QC342080	035	387279	275922	56467	402202	407346	628960
BSD	QC342081	036	394347	278613	56841	398783	401604	624068
CCV		037	427199	307673	63320	459278	461141	706889
CCB		039	430212	301447	61676	453145	455232	685153
MSS	187020-001	041	379233	279547	54590	377886	369301	598714
SER	QC342084	042	411044	293063	59874	434491	432844	668002
MS	QC342082	043	391370	284302	55572	377875	370883	607782
MSD	QC342083	044	375553	281803	55451	378524	372506	607261
PDS	QC342085	045	384810	282307	54727	378281	371629	607903
SAMPLE	187020-002	047	375748	275318	55021	382216	376261	601648
SAMPLE	187020-003	048	394976	284741	56569	393073	385692	611151
SAMPLE	187020-004	049	417114	291080	59060	401327	395509	621821
SAMPLE	187020-005	050	406248	285483	55879	382695	374892	604667
SAMPLE	187020-006	051	388553	280379	55590	383800	378059	600618
CCV		053	444276	310377	62882	446223	448979	689988
CCB		056	460363	310703	62428	449303	447419	676982
SAMPLE	187020-007	057	382723	275397	54488	371760	368096	586843

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 06-JUN-2006
Sequence: 56226997 (f0615)
Instrument ID: MET05

ICALBLK Filename: f0615003
Date Analyzed: 06-JUN-2006
Time Analyzed: 15:29

TYPE	SAMPLE	#						
SAMPLE	187020-008	058	387441	280813	55263	376933	374534	595364
SAMPLE	187020-009	059	387563	276616	54727	373828	370104	590463
SAMPLE	187020-010	060	374879	269417	53699	368826	367094	582972
SAMPLE	187020-011	061	376357	266087	54036	383991	385641	596281
SAMPLE	187020-012	062	366293	260157	52923	367246	367178	574873
SAMPLE	187020-013	063	364592	262838	52916	361443	363517	575190
SAMPLE	187020-014	064	364614	263794	51933	351957	345738	562732
SAMPLE	187020-015	065	353711	255904	50809	354787	347287	563969
SAMPLE	187020-011	066	363721	268770	51881	368195	363981	572293
CCV		068	423136	300524	60098	430691	435798	668061
CCB		070	422919	296271	59815	436500	431133	657887
SAMPLE	187020-012	072	375618	275494	53670	370198	367551	583181
SAMPLE	187020-013	073	362422	266677	52426	360001	358934	572319
SAMPLE	187020-014	074	363728	275968	52337	355670	343677	571908
SAMPLE	187020-015	075	376618	273979	53128	363124	351044	576149
ICSA		076	365672	276093	54486	371501	352538	596192
CCV		080	438729	307478	61802	419369	419288	645817
CCB		082	458286	311790	61314	428779	421616	642438
BLANK	QC342089	084	421819	273496	56108	354668	351264	535874
BS	QC342090	085	412951	283114	56242	371794	365868	573354
BSD	QC342091	086	437139	296299	58410	389220	382719	600151
MSS	187112-002	088	397101	283443	55022	363536	354937	565044
SER	QC342094	089	425770	297272	59305	412227	401117	626219
MS	QC342092	090	392164	282917	54847	357553	352764	563211
MSD	QC342093	091	385437	277028	54145	351877	348486	558311
PDS	QC342095	092	389117	277526	53871	354305	345236	560064
SAMPLE	187112-003	094	353001	253001	48273	320891	307108	513310
SAMPLE	187112-004	095	364202	262421	50067	332033	325628	527480
CCV		097	383973	268938	54816	376955	383230	580717
CCB		100	399070	274403	54752	385914	380916	578910
SAMPLE	187112-005	101	330947	237437	47677	319876	311636	503180
SAMPLE	187112-006	102	354268	256934	50162	333499	315166	519528
SAMPLE	187112-007	103	368190	260463	50725	329172	310880	515781
SAMPLE	187112-008	104	348459	255893	49451	327528	313539	508520

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 06-JUN-2006
Sequence: 56226997 (f0615)
Instrument ID: MET05

ICALBLK Filename: f0615003
Date Analyzed: 06-JUN-2006
Time Analyzed: 15:29

TYPE	SAMPLE	#							
SAMPLE	187112-009	105	289000	215301	43182	304650	293780	468504	
SAMPLE	187112-010	106	308420	224406	45072	308367	297576	472770	
SAMPLE	187112-011	107	331517	225397	46831	321511	318613	475692	
SAMPLE	187112-012	108	303457	227559	44761	301271	286114	468234	
SAMPLE	187112-013	109	360927	244446	50346	321277	309211	476180	
SAMPLE	187137-001	110	366326	246329	49986	326152	312928	485269	
CCV		112	369084	261829	53130	360394	355399	547559	
CCB		114	387552	267846	53474	376163	362491	554189	
SAMPLE	187020-017	116	350288	253729	50143	330715	314591	507530	
SAMPLE	187020-018	117	343957	247884	48950	327664	308792	500517	
SAMPLE	187020-019	118	316662	231002	46681	315638	301316	485396	
SAMPLE	187020-020	119	323777	236057	47252	316326	301658	486339	
CCV		121	382792	269839	54671	370146	361298	553952	
CCB		124	410496	275257	55531	379673	363170	555920	
ICSA		125	334000	249097	49456	314078	288621	493329	439

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 07-JUN-2006
Sequence: 56228694 (f0719)
Instrument ID: MET05

ICALBLK Filename: f0719003
Date Analyzed: 07-JUN-2006
Time Analyzed: 19:46

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD	566835	419934	79792	561698	398573	726836
LOWER LIMIT	170050	125980	23938	168509	119572	218051
UPPER LIMIT	680202	503921	95751	674038	478288	872203

TYPE	SAMPLE	#						
ICB		013	579739	431764	82073	564734	393207	718414
ICSA		014	513772	395752	75735	451332	302884	603617
SAMPLE	187020-012	018	460911	360243	68520	447641	312288	595119
SAMPLE	187020-013	019	484002	389884	73132	463307	313409	611197
SAMPLE	187020-014	020	511257	410808	74491	460870	303054	615000
SAMPLE	187020-015	021	521768	403010	76708	457678	294153	589628
BLANK	QC342089	023	468786	342322	71622	425845	288230	519894
BS	QC342090	024	493866	364672	73239	442858	302859	554864
BSD	QC342091	025	499968	376097	76223	462142	312914	574288
MSS	187112-002	027	494050	383732	75998	448780	292623	557746
CCV		029	589256	441137	89884	542647	362193	668308
CCB		032	585541	435921	89095	549915	365191	661042
SER	QC342094	033	550393	413751	84827	508669	334799	616738
MS	QC342092	034	510680	394872	78726	448148	292270	563047
MSD	QC342093	035	518079	399691	79255	452110	294619	569079
PDS	QC342095	036	522618	402810	79873	456002	298598	576367
SAMPLE	187020-017	038	534093	402880	80567	468430	305630	577898
SAMPLE	187020-018	039	575912	440309	90066	510920	326848	623550
SAMPLE	187020-019	040	583549	441758	91322	508543	321866	616258
SAMPLE	187020-020	041	599455	451381	94285	518217	328961	624859
SAMPLE	187112-003	042	626502	454400	92851	500868	310516	610504
SAMPLE	187112-004	043	604312	451488	93132	502716	315690	607481
CCV		045	646109	458284	99594*	564032	365276	662236
CCB		047	630393	454676	95329	556845	356384	642150
SAMPLE	187112-005	049	560961	428724	90545	483874	298443	574529
SAMPLE	187112-006	050	573181	430418	89754	488901	300582	584134

440

* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 07-JUN-2006
Sequence: 56228694 (f0719)
Instrument ID: MET05

ICALBLK Filename: f0719003
Date Analyzed: 07-JUN-2006
Time Analyzed: 19:46

TYPE	SAMPLE	#						
SAMPLE	187112-007	051	588271	431009	89568	489796	299448	587431
SAMPLE	187112-008	052	584236	440067	88809	494720	307523	596401
SAMPLE	187112-009	053	569042	420096	84443	479691	303184	582931
SAMPLE	187112-010	054	597607	443077	90086	506977	320800	616832
SAMPLE	187112-011	055	618632	427157	91429	525202	341589	609734
SAMPLE	187112-012	056	598254	453208	92260	504681	311368	611766
SAMPLE	187112-013	057	608697	423234	94157	509926	320724	574187
SAMPLE	187137-001	058	601018	423770	93031	515950	326410	581784
CCV		060	669362	472200	103053*	574789	368073	665721
CCB		063	665970	467206	100307*	572606	359429	648117
ICSA		064	582442	446502	92559	488271	302387	611528
CCV		067	614815	453713	96086*	549478	357278	658781
CCB		069	623227	443496	95152	553396	355768	644409
BLANK	QC342503	071	503633	360247	82154	437998	281146	505050
BS	QC342504	072	543666	392497	85180	472023	301976	554148
BSD	QC342505	073	536106	391489	85034	470542	297984	550752
CCV		084	577783	421962	91670	508342	323706	589349
CCB		087	598292	423876	91533	521935	326804	589941
ICSA		094	554376	401473	84385	440467	269343	553500
CCV		097	567061	415004	86364	494811	324412	608243
CCB		101	579134	407500	86457	500042	322090	583513
CCV		113	597224	415666	90338	500058	329983	599594
CCB		116	606056	407786	88718	502654	331114	585670
SAMPLE	187020-014	120	521902	376046	80252	429030	276619	523550
ICSA		121	505559	368241	78395	415712	269798	540168
CCV		124	536084	383999	80170	462109	323870	584792
CCB		126	550261	385046	81036	474062	330687	579279

441

* = Outside QC Limits

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187020 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	ALK	SBA	ASE	BAR	BED	CDA	CAR	CRO	COU	FEB	PBG	MGN	MNG	HGI	NIK	SE	AGA	NAL	TL	VN	ZN
187020-011	MET08	06/02/06 15:54	10.0																					
187020-011	MET08	06/02/06 17:51	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
187020-011	MET05	06/06/06 21:35	1.0		+				+				+									+		+		
187020-012	MET08	06/02/06 15:58	10.0																							
187020-012	MET08	06/02/06 18:08	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
187020-012	MET05	06/06/06 22:09	1.0		+								+									+		+		
187020-012	MET05	06/07/06 21:10	1.0						+																	
187020-013	MET08	06/02/06 16:01	10.0																							
187020-013	MET08	06/02/06 18:12	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
187020-013	MET05	06/06/06 22:14	1.0		+								+									+		+		
187020-013	MET05	06/07/06 21:15	1.0						+																	
187020-014	MET14	06/01/06 13:28	1.0														+									
187020-014	MET08	06/02/06 16:04	10.0												+						+					
187020-014	MET08	06/02/06 18:15	1.0	+		+	+	+		+	+	+		+	+		+		+	+	+				+	+
187020-014	MET05	06/06/06 22:20	1.0		+															+		+				
187020-014	MET05	06/07/06 21:21	1.0						+																	
187020-014	MET05	06/08/06 12:46	2.0										+													
187020-015	MET14	06/01/06 13:46	1.0														+									
187020-015	MET08	06/02/06 16:07	10.0																		+					
187020-015	MET08	06/02/06 18:18	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+				+	+
187020-015	MET05	06/06/06 22:25	1.0		+								+									+		+		
187020-015	MET05	06/07/06 21:26	1.0						+																	
QC342079	MET08	06/02/06 12:38	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342079	MET08	06/02/06 16:37	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342079	MET05	06/06/06 18:22	1.0		+				+				+									+		+		
QC342080	MET08	06/02/06 12:42	1.0			+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342080	MET08	06/02/06 12:48	1.0	+																						
QC342080	MET08	06/02/06 16:41	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342080	MET05	06/06/06 18:28	1.0		+				+				+									+		+		
QC342081	MET08	06/02/06 12:45	1.0			+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342081	MET08	06/02/06 12:51	1.0	+																						
QC342081	MET08	06/02/06 16:49	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342081	MET05	06/06/06 18:42	1.0		+				+				+									+		+		
QC342082	MET08	06/02/06 14:21	10.0																							
QC342082	MET08	06/02/06 16:57	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342082	MET05	06/06/06 19:27	1.0		+				+				+									+		+		
QC342083	MET08	06/02/06 14:24	10.0																							
QC342083	MET08	06/02/06 17:00	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342083	MET05	06/06/06 19:32	1.0		+				+				+									+		+		

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187020 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	ALB	SBS	ABA	BEA	BED	CAR	CRO	COU	FEB	PBG	MGN	HGI	NIK	SEG	AGA	NAL	TLV	ZN
QC342084	MET08	06/02/06 14:17	50.0																+		
QC342084	MET08	06/02/06 16:54	5.0	+		+	+	+		+	+	+		+	+	+	+		+	+			+	+
QC342084	MET05	06/06/06 19:21	5.0		+				+				+								+		+		
QC342085	MET08	06/02/06 14:27	10.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+	+
QC342085	MET08	06/02/06 17:02	1.0																					
QC342085	MET05	06/06/06 19:38	1.0		+				+				+								+		+		
QC342313	MET14	06/01/06 13:19	1.0														+								
QC342314	MET14	06/01/06 13:22	1.0														+								
QC342315	MET14	06/01/06 13:24	1.0														+								
QC342316	MET14	06/01/06 13:26	1.0														+								
QC342317	MET14	06/01/06 13:30	1.0														+								
QC342318	MET14	06/01/06 13:33	1.0														+								
QC342319	MET14	06/01/06 13:37	1.0														+								
QC342320	MET14	06/01/06 13:39	1.0														+								

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187020 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	ALB	SBS	ABA	BEE	CDA	CAR	CCO	CUE	FEB	PBG	MGN	MGI	HGE	NIK	SEG	AGA	NAL	TLN	VZN
187020-001	MET08	06/02/06 14:14	10.0																	+		
187020-001	MET08	06/02/06 16:51	1.0	+	+			+	+			+	+	+	+		+	+				+
187020-001	MET05	06/06/06 19:15	1.0					+			+											
187020-002	MET08	06/02/06 14:29	10.0																	+		
187020-002	MET08	06/02/06 17:18	1.0	+	+			+	+			+	+	+	+		+	+				+
187020-002	MET05	06/06/06 19:49	1.0					+			+											
187020-003	MET08	06/02/06 14:32	10.0																			
187020-003	MET08	06/02/06 17:22	1.0	+	+			+	+			+	+	+	+		+	+		+		+
187020-003	MET05	06/06/06 19:54	1.0					+			+											
187020-004	MET08	06/02/06 14:36	10.0																			
187020-004	MET08	06/02/06 17:26	1.0	+	+			+	+			+	+	+	+		+	+		+		+
187020-004	MET05	06/06/06 20:00	1.0					+			+											
187020-005	MET08	06/02/06 14:59	10.0																			
187020-005	MET08	06/02/06 17:30	1.0	+	+			+	+			+	+	+	+		+	+		+		+
187020-005	MET05	06/06/06 20:06	1.0					+			+											
187020-006	MET08	06/02/06 15:02	10.0																			
187020-006	MET08	06/02/06 17:33	1.0	+	+			+	+			+	+	+	+		+	+		+		+
187020-006	MET05	06/06/06 20:11	1.0					+			+											
187020-007	MET08	06/02/06 15:05	10.0																			
187020-007	MET08	06/02/06 17:36	1.0	+	+			+	+			+	+	+	+		+	+		+		+
187020-007	MET05	06/06/06 20:45	1.0					+			+											
187020-008	MET08	06/02/06 15:08	10.0																			
187020-008	MET08	06/02/06 17:39	1.0	+	+			+	+			+	+	+	+		+	+		+		+
187020-008	MET05	06/06/06 20:50	1.0					+			+											
187020-009	MET08	06/02/06 15:11	10.0																			
187020-009	MET08	06/02/06 17:43	1.0	+	+	+	+	+	+	+		+	+	+	+		+	+	+	+	+	+
187020-009	MET05	06/06/06 20:56	1.0		+			+			+								+		+	
187020-010	MET08	06/02/06 15:15	10.0																			
187020-010	MET08	06/02/06 17:47	1.0	+	+	+	+	+	+	+		+	+	+	+		+	+	+	+	+	+
187020-010	MET05	06/06/06 21:01	1.0		+			+			+								+		+	
187020-011	MET08	06/02/06 15:19	10.0																			
187020-011	MET08	06/02/06 18:21	1.0	+	+	+	+	+	+	+		+	+	+	+		+	+	+	+	+	+
187020-011	MET05	06/06/06 21:07	1.0		+			+			+								+		+	
187020-012	MET08	06/02/06 15:24	10.0																			
187020-012	MET08	06/02/06 18:25	1.0	+	+	+	+	+	+	+		+	+	+	+		+	+	+	+	+	+
187020-012	MET05	06/06/06 21:13	1.0		+			+			+								+		+	

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187020 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
187020-013	MET08	06/02/06 15:28	10.0																							
187020-013	MET08	06/02/06 18:30	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
187020-013	MET05	06/06/06 21:18	1.0		+				+				+									+		+		
187020-014	MET14	06/01/06 17:56	1.0															+								
187020-014	MET08	06/02/06 15:32	10.0													+							+			
187020-014	MET08	06/02/06 18:34	1.0	+		+	+	+		+	+	+		+	+		+		+	+	+				+	+
187020-014	MET05	06/06/06 21:24	1.0		+				+				+									+		+		
187020-015	MET14	06/01/06 17:59	1.0															+								
187020-015	MET08	06/02/06 15:50	10.0																				+			
187020-015	MET08	06/02/06 18:38	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+				+	+
187020-015	MET05	06/06/06 21:29	1.0		+				+				+									+		+		
187020-017	MET14	06/01/06 18:01	1.0															+								
187020-017	MET05	06/07/06 02:15	1.0		+								+													
187020-017	MET08	06/07/06 17:25	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
187020-017	MET05	06/07/06 23:01	1.0						+													+		+		
187020-018	MET14	06/01/06 18:03	1.0															+								
187020-018	MET05	06/07/06 02:21	1.0		+								+													
187020-018	MET08	06/07/06 17:29	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
187020-018	MET05	06/07/06 23:07	1.0						+													+		+		
187020-019	MET14	06/01/06 18:06	1.0															+								
187020-019	MET05	06/07/06 02:26	1.0		+								+													
187020-019	MET08	06/07/06 17:33	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
187020-019	MET05	06/07/06 23:12	1.0						+													+		+		
187020-020	MET14	06/01/06 18:08	1.0															+								
187020-020	MET05	06/07/06 02:32	1.0		+								+													
187020-020	MET08	06/07/06 17:37	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
187020-020	MET05	06/07/06 23:18	1.0						+													+		+		
QC342079	MET08	06/02/06 12:38	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342079	MET08	06/02/06 16:37	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342079	MET05	06/06/06 18:22	1.0		+				+				+									+		+		
QC342080	MET08	06/02/06 12:42	1.0			+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342080	MET08	06/02/06 12:48	1.0	+																						
QC342080	MET08	06/02/06 16:41	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342080	MET05	06/06/06 18:28	1.0		+				+				+									+		+		
QC342081	MET08	06/02/06 12:45	1.0			+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342081	MET08	06/02/06 12:51	1.0	+																						
QC342081	MET08	06/02/06 16:49	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342081	MET05	06/06/06 18:42	1.0		+				+				+									+		+		

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187020 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
QC342082	MET08	06/02/06 14:21	10.0																							
QC342082	MET08	06/02/06 16:57	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342082	MET05	06/06/06 19:27	1.0		+				+				+									+		+		
QC342083	MET08	06/02/06 14:24	10.0																							
QC342083	MET08	06/02/06 17:00	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342083	MET05	06/06/06 19:32	1.0		+				+				+									+		+		
QC342084	MET08	06/02/06 14:17	50.0																				+			
QC342084	MET08	06/02/06 16:54	5.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+				+	+
QC342084	MET05	06/06/06 19:21	5.0		+				+				+									+		+		
QC342085	MET08	06/02/06 14:27	10.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342085	MET08	06/02/06 17:02	1.0																							
QC342085	MET05	06/06/06 19:38	1.0		+				+				+									+		+		
QC342089	MET05	06/06/06 23:15	1.0		+								+									+		+		
QC342089	MET08	06/07/06 15:17	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342089	MET05	06/07/06 21:37	1.0						+																	
QC342090	MET05	06/06/06 23:21	1.0		+								+									+		+		
QC342090	MET08	06/07/06 15:21	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342090	MET05	06/07/06 21:43	1.0						+																	
QC342091	MET05	06/06/06 23:27	1.0		+								+									+		+		
QC342091	MET08	06/07/06 18:29	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342091	MET05	06/07/06 21:48	1.0						+																	
QC342092	MET05	06/06/06 23:49	1.0		+								+									+		+		
QC342092	MET08	06/07/06 15:48	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342092	MET08	06/07/06 15:57	1.0																							
QC342092	MET05	06/07/06 22:39	1.0						+																	
QC342093	MET05	06/06/06 23:55	1.0		+								+									+		+		
QC342093	MET08	06/07/06 15:50	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342093	MET08	06/07/06 15:59	1.0																							
QC342093	MET05	06/07/06 22:44	1.0						+																	
QC342094	MET05	06/06/06 23:44	5.0		+								+									+		+		
QC342094	MET08	06/07/06 15:52	5.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342094	MET05	06/07/06 22:33	5.0						+																	
QC342095	MET05	06/07/06 00:00	1.0		+	+	+	+			+	+	+	+	+		+		+	+	+	+		+	+	+
QC342095	MET08	06/07/06 16:01	1.0	+						+						+							+			
QC342095	MET05	06/07/06 22:50	1.0						+																	
QC342393	MET14	06/01/06 17:22	1.0															+								

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187020 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
QC342394	MET14	06/01/06 17:25	1.0															+								
QC342395	MET14	06/01/06 17:27	1.0															+								
QC342396	MET14	06/01/06 17:30	1.0															+								
QC342397	MET14	06/01/06 17:35	1.0															+								
QC342398	MET14	06/01/06 17:37	1.0															+								
QC342399	MET14	06/01/06 17:42	1.0															+								
QC342400	MET14	06/01/06 17:44	1.0															+								
QC342401	MET14	06/01/06 17:51	5.0															+								
QC342402	MET14	06/01/06 17:54	1.0															+								

Curtis & Tompkins Laboratories **Sample Preparation Summary** **31-MAY-2006 10:02**

Batch Number : 113955
Date Extracted: 31-MAY-2006
Extracted by : Kevin Gaines
Prep Method : 200.8

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S3085
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
187020-001		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
187020-002		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
187020-003		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
187020-004		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
187020-005		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
187020-006		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
187020-007		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
187020-008		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
187020-009		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187020-010		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187020-011		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187020-011		Treadwell & Rollo	Water	50	mL	50	1.000000	1					TAL/ICP		
187020-012		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187020-012		Treadwell & Rollo	Water	50	mL	50	1.000000	1					TAL/ICP		
187020-013		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187020-013		Treadwell & Rollo	Water	50	mL	50	1.000000	1					TAL/ICP		
187020-014		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187020-014		Treadwell & Rollo	Water	50	mL	50	1.000000	1					TAL/ICP		
187020-015		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187020-015		Treadwell & Rollo	Water	50	mL	50	1.000000	1					TAL/ICP		
QC342079	BLANK		Filtrate	50	mL	50	1.000000	1					ICAP		
QC342080	BS		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC342081	BSD		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC342082	MS	of 187020-001	Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC342083	MSD	of 187020-001	Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC342084	SER	of 187020-001	Filtrate	50	mL	50	1.000000	1					ICAP		
QC342085	PDS	of 187020-001	Filtrate	50	mL	50	1.000000	1					ICAP		

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Prep Chemist: [signature] 5/31/06 Reviewed By: [signature] Date: 6/2/06

Relinquished By: [signature] 5/31/06 Received By: [signature] Date: 6/2/06

Water Digestion for ICP-MS

Curtis & Tompkins, Ltd.

LIMS Batch #: 113955
Date Digested: 5/31/06
Digested by: KLD

Digestion Method
☒ EPA 200.8 for ICP-MS
☐ _____

BK BK 2318
Page 23
Continued From:
Continued On:

Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BLK	50	50	N	
BS				
BSD				
MS-01 FL				FILTERED FILTERED
MSD-01				
187020-01				
-02				
-03				
-04				
-05				
-06				
-07				
-08				
-09 D				
-10				
-11 B				
-12 FL				
-13 B				
-14				
-15				
020-11 A				TOTALS
12 D				
13 A				
14				
15				

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90-95 degrees C)	95	KLD 5/31
.5 mL of spike solution was added to all spikes	38085	
concentrated HCl	BK5025 BAKER	
concentrated HNO3	060020	
☐ filtered thru' Whatman # 541		

Prep Chemist Signature / Date: 5/30/06

Reviewer Signature / Date: K Carlyon 5/30/06

Curtis & Tompkins Laboratories Sample Preparation Summary 31-MAY-2006 10:28

Batch Number : 113957
Date Extracted: 31-MAY-2006
Extracted by : Kevin Gaines
Prep Method : 200.8

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S3085
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
187020-017		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187020-018		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187020-019		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187020-020		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187112-002		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
187112-003		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
187112-004		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
187112-005		Treadwell & Rollo	Water	50	mL	50	1.000000	1					AG, AS, CD, (more)		
187112-006		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187112-007		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187112-008		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187112-009		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187112-010		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187112-011		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187112-012		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187112-013		Treadwell & Rollo	Water	50	mL	50	1.000000	1					TAL/ICP		
187137-001		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
QC342089	BLANK		Filtrate	50	mL	50	1.000000	1					ICAP		
QC342090	BS		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC342091	BSD		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC342092	MS	of 187112-002	Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC342093	MSD	of 187112-002	Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC342094	SER	of 187112-002	Filtrate	50	mL	50	1.000000	1					ICAP		
QC342095	PDS	of 187112-002	Filtrate	50	mL	50	1.000000	1					ICAP		

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Prep Chemist: [illegible] 5/31/06 Reviewed By: K Carlyon Date: 6/7/06

Relinquished By: [illegible] 5/31/06 Received By: K Carlyon Date: 6/7/06

Water Digestion for ICP-MS Curtis & Tompkins, Ltd.

LIMS Batch #: 113957
Date Digested: 5/31/06
Digested by: KLA

Digestion Method
☑ EPA 200.8 for ICP-MS
☐ _____

BK BK 2318
Page 24
Continued From: _____
Continued On: _____

Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BLK	50	50	N	
BS				
BSD				
MS -02B				FIELD FILTERED
MSD -02				
187112-02				
-03 A				
-04				
-05 C				TOTALS
-06 A				FIELD FILTERED
-07				
-08				
-09				
-10				
-11				
-12				
-13				TOTALS
137-01 H				FIELD FILTERED
020-17D				
18 A				
19				
20				

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90-95 degrees C)	95	KLA 5/31
.5 mL of spike solution was added to all spikes	S3085	
concentrated HCl	B49025 BAKER	
concentrated HNO3	000020	
☐ filtered thru' Whatman # 541		

KLA 5/31/06
Prep Chemist Signature / Date

5/31/06
Reviewer Signature / Date

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

Inst : MET14
Calnum : 846219662002
Units : ug/L

Date : 01-JUN-2006 13:02
X Axis : R

Reviewer: ---
Type : WATER

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	114013	846219662002	Std02Rep1	01-JUN-2006 13:04	S3594 (500X)
L2	114013	846219662003	Std03Rep1	01-JUN-2006 13:06	S3594 (200X)
L3	114013	846219662004	Std04Rep1	01-JUN-2006 13:08	S3594 (50X)
L4	114013	846219662005	Std05Rep1	01-JUN-2006 13:10	S3594 (20X)
L5	114013	846219662006	Std06Rep1	01-JUN-2006 13:13	S3594 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Mercury	2595.0	2440.0	2302.5	2235.2	2176.0	LINR	-0.0670	4.60E-4		2349.7	1.000	.99	

452

Instrument amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

846219662002

WinHg Database 1.5

File Utility Help

Protocol hgppb

Dataset/Proto 060106 /hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 4.60336e-4

C 6.69626e-2

Rho .999907

Type Linear

Calibrated

Accepted

Accept

µ Abs.

21760

Accepted

New

Include S1 Rep 1 2 3 4 5

01 Jun-06 13:13 Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.047	-.047	44	0	43		
02	.20000	.172	-.028	520	0%	519		
03	.50000	.495	-.005	1220	0%	1220		
04	2.0000	2.05	.053	4605	0%	4605		
05	5.0000	5.08	.078	11176	0%	11176		
06	10.000	9.95	-.050	21761	0%	21760		

Ready NUM

Protocol: hgppb

POST-RUN REPORT

```
Line    Conc.  Units      SD/RSD       1        2        3        4        5
-----------------------------------------------------------------------------------

*** Standard: 1 Rep: 1                Seq:  1        13:02:02 01 Jun 06    HG

Hg     .000    ppb       43
               Bkgd 1    21112552                                                =
                                                                               =
*** Standard: 2 Rep: 1                Seq:  2        13:04:05 01 Jun 06    HG

Hg     .200    ppb       519
               Bkgd 1    21110158                                                =
                                                                               =
*** Standard: 3 Rep: 1                Seq:  3        13:06:11 01 Jun 06    HG

Hg     .500    ppb       1220
               Bkgd 1    21106051                                                =
                                                                               =
*** Standard: 4 Rep: 1                Seq:  4        13:08:55 01 Jun 06    HG

Hg    2.00     ppb       4605
               Bkgd 1    21097995                                                =
                                                                               =
*** Standard: 5 Rep: 1                Seq:  5        13:10:59 01 Jun 06    HG

Hg    5.00     ppb       11176
               Bkgd 1    21090536                                                =
                                                                               =
*** Standard: 6 Rep: 1                Seq:  6        13:13:10 01 Jun 06    HG

Hg    10.0     ppb       21760
               Bkgd 1    21082448                                                =
                                                                               =
```

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

equence: 846219662 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 01-JUN-2006
nalytical Method: EPA 7470A SOP Version: HG_water_rv7
nalyte: Mercury

Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
1 114013	ICALBLK	Std01Rep1				01-JUN-2006 13:02	1.0	1.0									
2 114013	ICAL	Std02Rep1				01-JUN-2006 13:04	1.0	1.0									
3 114013	ICAL	Std03Rep1				01-JUN-2006 13:06	1.0	1.0									
4 114013	ICAL	Std04Rep1				01-JUN-2006 13:08	1.0	1.0									
5 114013	ICAL	Std05Rep1				01-JUN-2006 13:10	1.0	1.0									
6 114013	ICAL	Std06Rep1				01-JUN-2006 13:13	1.0	1.0									
7 114013	ICV					01-JUN-2006 13:15	1.0	1.0	2	5.000	846219662001	4.750		ug/L	95		
8 114013	ICB					01-JUN-2006 13:17	1.0	1.0			846219662001	ND	0.20	ug/L			
9 114013	BLANK	QC342313		114013	Water	01-JUN-2006 13:19	1.0	1.0			846219662001	ND	0.20	ug/L			
0 114013	BLANK	QC342314		114013	TCLP L	01-JUN-2006 13:22	1.0	5.0			846219662001	ND	1.0	ug/L			
1 114013	BS	QC342315		114013	Water	01-JUN-2006 13:24	1.0	1.0		5.000	846219662001	5.070	0.20	ug/L	101		
2 114013	BSD	QC342316		114013	Water	01-JUN-2006 13:26	1.0	1.0		5.000	846219662001	4.770	0.20	ug/L	95	6	
3 114013	MSS	187020-014		114013	Water	01-JUN-2006 13:28	1.0	1.0			846219662001	0.54	0.20	ug/L			
4 114013	MS	QC342317	187020-014	114013	Water	01-JUN-2006 13:30	1.0	1.0		5.000	846219662001	6.110	0.20	ug/L	111		
5 114013	MSD	QC342318	187020-014	114013	Water	01-JUN-2006 13:33	1.0	1.0		5.000	846219662001	5.940	0.20	ug/L	108	3	
6 114013	MSS	187103-001		114013	TCLP L	01-JUN-2006 13:35	1.0	5.0			846219662001	ND	2.0	ug/L			
7 114013	MS	QC342319	187103-001	114013	TCLP L	01-JUN-2006 13:37	1.0	5.0		25.00	846219662001	26.40	1.0	ug/L	106		
8 114013	MSD	QC342320	187103-001	114013	TCLP L	01-JUN-2006 13:39	1.0	5.0		25.00	846219662001	25.85	1.0	ug/L	103	2	
9 114013	CCV					01-JUN-2006 13:41	1.0	1.0	3	2.500	846219662001	2.400		ug/L	96		
0 114013	CCB					01-JUN-2006 13:44	1.0	1.0			846219662001	ND	0.20	ug/L			
1 114013	SAMPLE	187020-015		114013	Water	01-JUN-2006 13:46	1.0	1.0			846219662001	1.1	0.20	ug/L			
2 114013	SAMPLE	187103-002		114013	TCLP L	01-JUN-2006 13:48	1.0	5.0			846219662001	ND	2.0	ug/L			
3 114013	SAMPLE	187103-003		114013	TCLP L	01-JUN-2006 13:50	1.0	5.0			846219662001	ND	2.0	ug/L			
4 114013	SAMPLE	187103-004		114013	TCLP L	01-JUN-2006 13:52	1.0	5.0			846219662001	ND	2.0	ug/L			
5 114013	SAMPLE	187103-005		114013	TCLP L	01-JUN-2006 13:55	1.0	5.0			846219662001	ND	2.0	ug/L			
6 114013	SAMPLE	187103-006		114013	TCLP L	01-JUN-2006 13:57	1.0	5.0			846219662001	ND	2.0	ug/L			
7 114013	SAMPLE	187103-007		114013	TCLP L	01-JUN-2006 14:00	1.0	5.0			846219662001	ND	2.0	ug/L			
8 114013	SAMPLE	187103-008		114013	TCLP L	01-JUN-2006 14:02	1.0	5.0			846219662001	ND	2.0	ug/L			
9 114013	SAMPLE	187103-009		114013	TCLP L	01-JUN-2006 14:04	1.0	5.0			846219662001	ND	2.0	ug/L			
0 114013	SAMPLE	187103-010		114013	TCLP L	01-JUN-2006 14:06	1.0	5.0			846219662001	ND	2.0	ug/L			
114013	CCV					01-JUN-2006 14:08	1.0	1.0	4	5.000	846219662001	4.940		ug/L	99		
2 114013	CCB					01-JUN-2006 14:10	1.0	1.0			846219662001	ND	0.20	ug/L			
3 114013	SAMPLE	187126-003		114013	Water	01-JUN-2006 14:13	1.0	1.0			846219662001	ND	0.20	ug/L			
4 114013	SAMPLE	187139-004		114013	Filtra	01-JUN-2006 14:15	1.0	1.0			846219662001	0.68	0.20	ug/L			
5 114013	CCV					01-JUN-2006 14:17	1.0	1.0	5	7.500	846219662001	7.220		ug/L	96		
6 114013	CCB					01-JUN-2006 14:19	1.0	1.0			846219662001	ND	0.20	ug/L			

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ds used: 1=S3594 2=S3596 3=S3597 4=S3598 5=S3599

nalyst: _____ Date: 6/1/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 846219917 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 01-JUN-2006
Analytical Method: EPA 7470A SOP Version: HG_water_rv7
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	114029	CCV					01-JUN-2006 17:17	1.0	1.0	1	5.000	846219662002	4.910		ug/L	98		
002	114029	CCB					01-JUN-2006 17:20	1.0	1.0			846219662002	ND	0.20	ug/L			
003	114029	BLANK	QC342393		114029	Water	01-JUN-2006 17:22	1.0	1.0			846219662002	ND	0.20	ug/L			
004	114029	BLANK	QC342394		114029	WET Le	01-JUN-2006 17:25	1.0	5.0			846219662002	0.24 J	1.0	ug/L			
005	114029	BS	QC342395		114029	Water	01-JUN-2006 17:27	1.0	1.0		5.000	846219662002	5.590	0.20	ug/L	112		
006	114029	BSD	QC342396		114029	Water	01-JUN-2006 17:30	1.0	1.0		5.000	846219662002	5.550	0.20	ug/L	111	1	
007	114029	MSS	187133-003		114029	Water	01-JUN-2006 17:32	1.0	1.0			846219662002	ND	0.20	ug/L			
008	114029	MS	QC342397	187133-003	114029	Water	01-JUN-2006 17:35	1.0	1.0		5.000	846219662002	5.980	0.20	ug/L	120		
009	114029	MSD	QC342398	187133-003	114029	Water	01-JUN-2006 17:37	1.0	1.0		5.000	846219662002	5.930	0.20	ug/L	119	1	
010	114029	MSS	187103-001		114029	WET Le	01-JUN-2006 17:39	1.0	5.0			846219662002	ND	2.0	ug/L			
011	114029	MS	QC342399	187103-001	114029	WET Le	01-JUN-2006 17:42	1.0	5.0		25.00	846219662002	18.85	1.0	ug/L	75		
012	114029	MSD	QC342400	187103-001	114029	WET Le	01-JUN-2006 17:44	1.0	5.0		25.00	846219662002	19.80	1.0	ug/L	79	5	
013	114029	CCV					01-JUN-2006 17:46	1.0	1.0	2	7.500	846219662002	7.230		ug/L	96		
014	114029	CCB					01-JUN-2006 17:48	1.0	1.0			846219662002	ND	0.20	ug/L			
015	114029	SER	QC342401	187103-001	114029	WET Le	01-JUN-2006 17:51	5.0	5.0			846219662002	ND	5.0	ug/L		--	
016	114029	PDS	QC342402	187103-001	114029	WET Le	01-JUN-2006 17:54	1.0	5.0	3	25.00	846219662002	28.30	1.0	ug/L	113		
017	114029	SAMPLE	187020-014		114029	Filtra	01-JUN-2006 17:56	1.0	1.0			846219662002	ND	0.20	ug/L			
018	114029	SAMPLE	187020-015		114029	Filtra	01-JUN-2006 17:59	1.0	1.0			846219662002	ND	0.20	ug/L			
019	114029	SAMPLE	187020-017		114029	Filtra	01-JUN-2006 18:01	1.0	1.0			846219662002	ND	0.20	ug/L			
020	114029	SAMPLE	187020-018		114029	Filtra	01-JUN-2006 18:03	1.0	1.0			846219662002	ND	0.20	ug/L			
021	114029	SAMPLE	187020-019		114029	Filtra	01-JUN-2006 18:06	1.0	1.0			846219662002	ND	0.20	ug/L			
022	114029	SAMPLE	187020-020		114029	Filtra	01-JUN-2006 18:08	1.0	1.0			846219662002	ND	0.20	ug/L			
023	114029	SAMPLE	187102-003		114029	Water	01-JUN-2006 18:10	1.0	1.0			846219662002	ND	0.20	ug/L			
024	114029	SAMPLE	187103-002		114029	WET Le	01-JUN-2006 18:12	1.0	5.0			846219662002	ND	2.0	ug/L			
025	114029	CCV					01-JUN-2006 18:14	1.0	1.0	4	2.500	846219662002	2.420		ug/L	97		
026	114029	CCB					01-JUN-2006 18:17	1.0	1.0			846219662002	ND	0.20	ug/L			
027	114029	SAMPLE	187103-003		114029	WET Le	01-JUN-2006 18:19	1.0	5.0			846219662002	ND	2.0	ug/L			
028	114029	SAMPLE	187103-004		114029	WET Le	01-JUN-2006 18:21	1.0	5.0			846219662002	ND	2.0	ug/L			
029	114029	SAMPLE	187103-005		114029	WET Le	01-JUN-2006 18:23	1.0	5.0			846219662002	ND	2.0	ug/L			
030	114029	SAMPLE	187103-006		114029	WET Le	01-JUN-2006 18:25	1.0	5.0			846219662002	ND	2.0	ug/L			
031	114029	SAMPLE	187103-007		114029	WET Le	01-JUN-2006 18:27	1.0	5.0			846219662002	ND	2.0	ug/L			
032	114029	SAMPLE	187103-008		114029	WET Le	01-JUN-2006 18:30	1.0	5.0			846219662002	ND	2.0	ug/L			
033	114029	SAMPLE	187103-009		114029	WET Le	01-JUN-2006 18:32	1.0	5.0			846219662002	ND	2.0	ug/L			
034	114029	SAMPLE	187103-010		114029	WET Le	01-JUN-2006 18:34	1.0	5.0			846219662002	ND	2.0	ug/L			
035	114029	SAMPLE	187133-004		114029	Water	01-JUN-2006 18:36	1.0	1.0			846219662002	ND	0.20	ug/L			
036	114029	CCV					01-JUN-2006 18:39	1.0	1.0	1	5.000	846219662002	5.090		ug/L	102		
037	114029	CCB					01-JUN-2006 18:41	1.0	1.0			846219662002	ND	0.20	ug/L			

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Stds used: 1=S3598 2=S3599 3=S3594 4=S3597

Analyst: _____ Date: 6/2/06

Curtis & Tompkins Laboratories **Sample Preparation Summary** **01-JUN-2006 11:30**

Batch Number : 114013
Date Extracted: 01-JUN-2006
Extracted by : Kale Clauson
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : mL
Clean-up :

Spike #1 ID : S3594
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
187020-014			Treadwell & Rollo	Water	50	mL	50	1.000000	1					HG.		
187020-015			Treadwell & Rollo	Water	50	mL	50	1.000000	1					HG		
187103-001			Shaw E&I	TCLP Leach	10	mL	50	5.000000	1					T26/HG		
187103-002			Shaw E&I	TCLP Leach	10	mL	50	5.000000	1					T26/HG		
187103-003			Shaw E&I	TCLP Leach	10	mL	50	5.000000	1					T26/HG		
187103-004			Shaw E&I	TCLP Leach	10	mL	50	5.000000	1					T26/HG		
187103-005			Shaw E&I	TCLP Leach	10	mL	50	5.000000	1					T26/HG		
187103-006			Shaw E&I	TCLP Leach	10	mL	50	5.000000	1					T26/HG		
187103-007			Shaw E&I	TCLP Leach	10	mL	50	5.000000	1					T26/HG		
187103-008			Shaw E&I	TCLP Leach	10	mL	50	5.000000	1					T26/HG		
187103-009			Shaw E&I	TCLP Leach	10	mL	50	5.000000	1					T26/HG		
187103-010			Shaw E&I	TCLP Leach	10	mL	50	5.000000	1					T26/HG		
187126-003			OTG Enviroengineering Solution	Water	50	mL	50	1.000000	1					PP13/HG		
187139-004			URS Corporation	Filtrate	50	mL	50	1.000000	1					T26/HG		
QC342313	BLANK			Water	50	mL	50	1.000000	1					HG		
QC342314	BLANK			TCLP Leach	10	mL	50	5.000000	1					HG		
QC342315	BS			Water	50	mL	50	1.000000	1		2.5			HG		
QC342316	BSD			Water	50	mL	50	1.000000	1		2.5			HG		
QC342317	MS	of 187020-014		Water	50	mL	50	1.000000	1		2.5			HG		
QC342318	MSD	of 187020-014		Water	50	mL	50	1.000000	1		2.5			HG		
QC342319	MS	of 187103-001		TCLP Leach	10	mL	50	5.000000	1		2.5			HG		
QC342320	MSD	of 187103-001		TCLP Leach	10	mL	50	5.000000	1		2.5			HG		

Prep Chemist: _____ Reviewed By: _____ Date: 6/1/06

Relinquished By: _____ Received By: _____ Date: 6/1/06

Water Digestion for Mercury — Curtis & Tompkins, Ltd.

LIMS Batch #: ~~114C~~ KMC 6/1 114013

Date Digested: 6/1/06

Digested by: KMC

Digestion Method

☒ EPA 7470A/ EPA 245.1

☐ _____

BK 2277

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Sample # and letter		Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
187020 - 014MSS	A	50	50	N	WATER
015	A	↓	↓	↓	↓
187103 - 001MSS		10	↓	↓	TCLP LEACHATE
002		↓	↓	↓	↓
003		↓	↓	↓	↓
004		↓	↓	↓	↓
005		↓	↓	↓	↓
006		↓	↓	↓	↓
007		↓	↓	↓	↓
008		↓	↓	↓	↓
009		↓	↓	↓	↓
010		↓	↓	↓	↓
187126 - 003	I	50	↓	↓	WATER
187139 - 004	D	↓	↓	↓	FILTRATE
~~187147 - 001~~					
~~002~~					
KMC 6/6/06 ~~003~~					
BLANK		50	50	N	
BS		↓	↓	↓	
BSD		↓	↓	↓	
MS 187020 - 014		↓	↓	↓	
MSD 187020 - 014		↓	↓	↓	
MS 187103 - 001		10	10	↓	TCLP LEACHATE
MSD 187103 - 001		↓	↓	↓	↓

2.5 mL of spike solution was added to all spikes

	Reagent ID/ LIMS# / Time	Initials / Date
	53594	KMC 6/1/06
ICAL Source WS#	53594	↓
ICV / CCV WS#	53596/97/98/99	↓
Digestion of Samples & Standards: Time ON / Temperature ON	1030 / 95°C	↓
Time OFF/ Temperature OFF	1230 / 95°C	↓
concentrated H_2SO_4	B03032	↓
concentrated HNO_3	C06026	↓
5% $KMnO_4$	K053006	↓
5% $K_2S_2O_8$	K2051606	↓
NaCl.hydroxylamine hydrochloride	Hy 053106	↓
Stannous Chloride	$SnCl_2$ 053006	↓
☐ filtered thru' 0.45 um syringe filter		

6/1/06

Prep Chemist / Date

Continued from page _____

Continued on page _____

6/1/06

Reviewed by / Date

Curtis & Tompkins Laboratories Sample Preparation Summary 01-JUN-2006 14:21

Batch Number : 114029
Date Extracted: 01-JUN-2006
Extracted by : Kale Clauson
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : mL
Clean-up :

Spike #1 ID : S3594
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
187020-014			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
187020-015			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
187020-017			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
187020-018			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
187020-019			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
187020-020			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
187102-003			IMTT	Water	50	mL	50	1.000000	1					HG		
187103-001			Shaw E&I	WET Leacha	10	mL	50	5.000000	1					T26/HG		
187103-002			Shaw E&I	WET Leacha	10	mL	50	5.000000	1					T26/HG		
187103-003			Shaw E&I	WET Leacha	10	mL	50	5.000000	1					T26/HG		
187103-004			Shaw E&I	WET Leacha	10	mL	50	5.000000	1					T26/HG		
187103-005			Shaw E&I	WET Leacha	10	mL	50	5.000000	1					T26/HG		
187103-006			Shaw E&I	WET Leacha	10	mL	50	5.000000	1					T26/HG		
187103-007			Shaw E&I	WET Leacha	10	mL	50	5.000000	1					T26/HG		
187103-008			Shaw E&I	WET Leacha	10	mL	50	5.000000	1					T26/HG		
187103-009			Shaw E&I	WET Leacha	10	mL	50	5.000000	1					T26/HG		
187103-010			Shaw E&I	WET Leacha	10	mL	50	5.000000	1					T26/HG		
187133-003			Montezuma Wetlands LLC	Water	50	mL	50	1.000000	1					HG		
187133-004			Montezuma Wetlands LLC	Water	50	mL	50	1.000000	1					HG		
QC342393	BLANK			Water	50	mL	50	1.000000	1					HG		
QC342394	BLANK			WET Leacha	10	mL	50	5.000000	1					HG		
QC342395	BS			Water	50	mL	50	1.000000	1		2.5			HG		
QC342396	BSD			Water	50	mL	50	1.000000	1		2.5			HG		
QC342397	MS	of 187133-003		Water	50	mL	50	1.000000	1		2.5			HG		
QC342398	MSD	of 187133-003		Water	50	mL	50	1.000000	1		2.5			HG		
QC342399	MS	of 187103-001		WET Leacha	10	mL	50	5.000000	1		2.5			HG		
QC342400	MSD	of 187103-001		WET Leacha	10	mL	50	5.000000	1		2.5			HG		
QC342401	SER	of 187103-001		WET Leacha	10	mL	50	5.000000	1					HG		
QC342402	PDS	of 187103-001		WET Leacha	10	mL	50	5.000000	1					HG		

Prep Chemist: _____ Reviewed By: K Carlyon Date: 6/1/06

Relinquished By: _____ Received By: _____ Date: 6/1/06

Water Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 114029

Date Digested: 6/1/2006

Digested by: KMC

Digestion Method

☒ EPA 7470A/ EPA 245.1

☐

BK 2277

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Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
187020 -014 B	50	50	N	FILTRATE (F.F)
015 B				
017 B				
018 A				
019				
020				
187102 - 003				WATER
187103 - 001 MSS	10			WET LEACHATE
002				
003				
004				
005				
006				
007				
008				
009				
010				
187133 - 003 MSS	50			WATER COMP A,B 25mL EA
004				
BLANK				
BS/BSD				
MS 187133-003				COMP A,B 25mL EA
MSD 187133-003				
MS 187103-001	10			
MSD 187103-001				

	Reagent ID/ LIMS# / Time	Initials / Date
2.5 mL of spike solution was added to all spikes	S3594	KMC 6/1/06
ICAL Source WS#	S3594	
ICV / CCV WS#	S3596/97/98/99	
Digestion of Samples & Standards: Time ON / Temperature ON	200 / 95°C	
Time OFF/ Temperature OFF	400 / 95°C	
concentrated H_2SO_4	B03032	
concentrated HNO_3	C06026	
5% $KMnO_4$	K053006	
5% $K_2S_2O_8$	K2051606	
NaCl.hydroxylamine hydrochloride	Hy 053106	
Stannous Chloride	$SnCl_2$ 053006	
☐ filtered thru' 0.45 um syringe filter		

6/1/06

Prep Chemist / Date

Continued from page

Continued on page

K Carlyon 6/1/06

Reviewed by / Date

GENERAL CHEMISTRY

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	05/23/06
Units:	mg/L	Received:	05/24/06
Diln Fac:	1.000	Analyzed:	06/02/06
Batch#:	114085		

Field ID: 600GW101 Lab ID: 187020-001
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	660	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	660	1.0

Field ID: 600GW105 Lab ID: 187020-002
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	370	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	370	1.0

Field ID: 600GW106 Lab ID: 187020-003
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	230	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	230	1.0

Field ID: 600GW108 Lab ID: 187020-004
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	190	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	190	1.0

Field ID: 610GW101 Lab ID: 187020-005
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	460	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	460	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	05/23/06
Units:	mg/L	Received:	05/24/06
Diln Fac:	1.000	Analyzed:	06/02/06
Batch#:	114085		

Field ID: 610GW102 Lab ID: 187020-006
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	350	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	350	1.0

Field ID: 610GW103 Lab ID: 187020-007
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	740	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	740	1.0

Field ID: DUP0523061A Lab ID: 187020-008
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	410	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	410	1.0

Field ID: BB3GW100 Lab ID: 187020-009
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	200	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	200	1.0

Field ID: DUP0523063A Lab ID: 187020-010
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	200	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	200	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	05/23/06
Units:	mg/L	Received:	05/24/06
Diln Fac:	1.000	Analyzed:	06/02/06
Batch#:	114085		

Field ID: BB3SW104 Lab ID: 187020-012
Type: SAMPLE

Analyte		Result	RL
Alkalinity, Bicarbonate		180	1.0
Alkalinity, Carbonate	ND		1.0
Alkalinity, Hydroxide	ND		1.0
Alkalinity, Total as CaCO3		180	1.0

Field ID: BB3SW102 Lab ID: 187020-013
Type: SAMPLE

Analyte		Result	RL
Alkalinity, Bicarbonate		270	1.0
Alkalinity, Carbonate	ND		1.0
Alkalinity, Hydroxide	ND		1.0
Alkalinity, Total as CaCO3		270	1.0

Field ID: BB1PZ101 Lab ID: 187020-014
Type: SAMPLE

Analyte		Result	RL
Alkalinity, Bicarbonate		590	1.0
Alkalinity, Carbonate	ND		1.0
Alkalinity, Hydroxide	ND		1.0
Alkalinity, Total as CaCO3		590	1.0

Field ID: BB1PZ100 Lab ID: 187020-015
Type: SAMPLE

Analyte		Result	RL
Alkalinity, Bicarbonate		430	1.0
Alkalinity, Carbonate	ND		1.0
Alkalinity, Hydroxide	ND		1.0
Alkalinity, Total as CaCO3		430	1.0

Field ID: LF6GW103 Lab ID: 187020-017
Type: SAMPLE

Analyte		Result	RL
Alkalinity, Bicarbonate		310	1.0
Alkalinity, Carbonate	ND		1.0
Alkalinity, Hydroxide	ND		1.0
Alkalinity, Total as CaCO3		310	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	05/23/06
Units:	mg/L	Received:	05/24/06
Diln Fac:	1.000	Analyzed:	06/02/06
Batch#:	114085		

Field ID: LF6GW104 Lab ID: 187020-018
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	230	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	230	1.0

Field ID: LF6GW105 Lab ID: 187020-019
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	280	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	280	1.0

Field ID: LF6GW106 Lab ID: 187020-020
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	250	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	250	1.0

Type: BLANK Lab ID: QC342607

Analyte	Result	RL
Alkalinity, Bicarbonate	ND	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Units:	mg/L
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC342608	Batch#:	114085
Matrix:	Water	Analyzed:	06/02/06

Spiked	Result	%REC	Limits
200.0	185.1	93	90-110

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Diln Fac:	1.000
Field ID:	BB3SW104	Batch#:	114085
MSS Lab ID:	187020-012	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	mg/L	Analyzed:	06/02/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC342609	178.0	200.0	359.6	91	69-112		
MSD	QC342610		200.0	359.6	91	69-112	0	25

RPD= Relative Percent Difference

Analysis: **Alkalinity** Analysis Date: **06/02/06** H_2SO_4 Normality = **0.0178**

Method: **EPA 310.1** / SMWW 2320B Batch No: **114085** conc.(mg/L) Na_2CO_3 for QC = **200**

SOP#: Alkalinity_rv 6.doc Analyst: SJ

SAMPLE	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alkalinity Volume (4.5-4.2) (mL)	**Low Alkalinity** as $CaCO_3$ (mg/L)	Reporting Limit (mg/L)
187020-001	7.20	25	0.0	18.5	658.60		n/a	1.0
187020-002	7.40	25	0.0	10.4	370.24		n/a	1.0
187020-003	8.30	25	0.0	6.4	227.84		n/a	1.0
187020-004	7.40	25	0.0	5.2	185.12		n/a	1.0
187020-005	7.60	25	0.0	12.9	459.24		n/a	1.0
187020-006	7.50	25	0.0	9.8	348.88		n/a	1.0
187020-007	7.50	25	0.0	20.8	740.48		n/a	1.0
187020-008	7.50	25	0.0	11.4	405.84		n/a	1.0
187020-009	7.00	25	0.0	5.6	199.36		n/a	1.0
187020-010	7.00	25	0.0	5.7	202.92		n/a	1.0
187020-012	8.20	25	0.0	5.0	178.00		n/a	1.0
187020-013	7.60	25	0.0	7.6	270.56		n/a	1.0
187020-014	7.60	25	0.0	16.6	590.96		n/a	1.0
187020-015	8.10	25	0.0	12.2	434.32		n/a	1.0
187020-017	7.10	25	0.0	8.7	309.72		n/a	1.0
187020-018	7.30	25	0.0	6.4	227.84		n/a	1.0
187020-019	7.20	25	0.0	8.0	284.80		n/a	1.0
187020-020	7.10	25	0.0	7.0	249.20		n/a	1.0

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QC DATA	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alk Vol (mL)	**Low Alk** as $CaCO_3$ (mg/L)	RL (mg/L)	% Rec.	% RPD
MB	6.3	25	0.0	0.0	ND			1.0		
LCS	10.2	25	1.9	5.2	185.12			1.0	93	
~~160344-2~~ 187020-12	8.2	25	0.0	5.0	178.00		n/a	1.0		
MS	9.5	25	2.0	10.1	359.56			1.0	91	
MSD	9.5	25	2.0	10.1	359.56			1.0	91	0

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	25	80 - 120

Reviewed by/ Date: _____

Analysis: **Alkalinity** Analysis Date: 06/02/06 H_2SO_4 Normality = 0.0178

Method: **EPA 310.1** Batch No: 114085 Analyst: SJ

SAMPLE	(P)	(T-P)	Total Alkalinity as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity	Carbonate Alkalinity	Hydroxide Alkalinity
				as $CaCO_3$ (mg/L)		
187020-001	0.0	658.6	658.6	658.600	0.000	0.000
187020-002	0.0	370.2	370.24	370.240	0.000	0.000
187020-003	0.0	227.8	227.84	227.840	0.000	0.000
187020-004	0.0	185.1	185.12	185.120	0.000	0.000
187020-005	0.0	459.2	459.24	459.240	0.000	0.000
187020-006	0.0	348.9	348.88	348.880	0.000	0.000
187020-007	0.0	740.5	740.48	740.480	0.000	0.000
187020-008	0.0	405.8	405.84	405.840	0.000	0.000
187020-009	0.0	199.4	199.36	199.360	0.000	0.000
187020-010	0.0	202.9	202.92	202.920	0.000	0.000
187020-012	0.0	178.0	178	178.000	0.000	0.000
187020-013	0.0	270.6	270.56	270.560	0.000	0.000
187020-014	0.0	591.0	590.96	590.960	0.000	0.000
187020-015	0.0	434.3	434.32	434.320	0.000	0.000
187020-017	0.0	309.7	309.72	309.720	0.000	0.000
187020-018	0.0	227.8	227.84	227.840	0.000	0.000
187020-019	0.0	284.8	284.8	284.800	0.000	0.000
187020-020	0.0	249.2	249.2	249.200	0.000	0.000

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P: Phenolphthalein Alkalinity (using volume to pH 8.3)
T-P: Total Alkalinity minus Phenolphthalein Alkalinity

Carbonate Alkalinity = 2x the smaller of P or (T-P)
Bicarbonate Alkalinity = (T-2P) when P < (T-P)
Hydroxide Alkalinity = (2P-T) when (T-P) < P

Analysis: **Alkalinity** Analysis Date: 06/02/06 H_2SO_4 Normality = 0.0178

Method: **EPA 310.1** Batch No: 114085 Analyst: SJ

SAMPLE	**Total Alkalinity** as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity **as HCO_3^- (mg/L)**	Carbonate Alkalinity **as CO_3^{2-} (mg/L)**	Hydroxide Alkalinity **as OH^- (mg/L)**
187020-001	658.6	803.00	0.000	0.00
187020-002	370.24	451.41	0.000	0.00
187020-003	227.84	277.79	0.000	0.00
187020-004	185.12	225.71	0.000	0.00
187020-005	459.24	559.93	0.000	0.00
187020-006	348.88	425.37	0.000	0.00
187020-007	740.48	902.83	0.000	0.00
187020-008	405.84	494.82	0.000	0.00
187020-009	199.36	243.07	0.000	0.00
187020-010	202.92	247.41	0.000	0.00
187020-012	178	217.03	0.000	0.00
187020-013	270.56	329.88	0.000	0.00
187020-014	590.96	720.53	0.000	0.00
187020-015	434.32	529.54	0.000	0.00
187020-017	309.72	377.63	0.000	0.00
187020-018	227.84	277.79	0.000	0.00
187020-019	284.8	347.24	0.000	0.00
187020-020	249.2	303.84	0.000	0.00

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Alkalinity Benchbook EPA 310.1 / SMWW 2320B Curtis & Tompkins, Ltd.

LIMS Batch #: 114085 Date: 6/2/06 Benchbook#: **BK 2255**
Matrix: water Time: 15:00 Page: **60**

CAL-ph 4.0: SS#: 8749 $CaCO_3$ Vol (mgL) Spiked: 5
CAL-ph 7.0: SS#: 8177 $CaCO_3$ Conc (mg/L): 1000
CAL-ph 10.0: SS#: 8169 $CaCO_3$ WS#: 83134
Slope: 102.1 H_2SO_4 Normality: 0.0175
(slope limits: 92 - 102) H_2SO_4 Reagent ID: 9/28/06

	Sample # / Letter	Sample Vol. Titrated (mL)	Initial pH (S.U.)	H_2SO_4 Vol (mL) to pH 8.3	H_2SO_4 Vol (mL) to pH 4.5 *	Low Alk TotalVol (mL)	Comments
1	MB	25	6.3	—	<0.05		
	LCS		10.2	1.9	5.15		
	187020-1 F		7.2	—	18.5		
	-2		7.4	—	10.9		
5	-3		8.3	—	6.4		
	-4		7.4	—	5.2		
	-5		7.6	—	12.9		
	-6		7.5	—	9.8		
	-7		7.5	—	20.8		
10	-8		7.5	—	11.4		
	-9 E		7.0	—	5.6		
	-10		7.0	—	5.7		
SJ 6/2	~~-11 F~~		~~8.2~~	—	~~5.6~~		
	-12 F		8.2	—	5		
15	-13 C		7.6	—	7.6		
	-14		7.6	—	16.6		
	-15		8.1	—	12.2		
	SJ 6/2 -17 ~~-16~~ E		7.1	—	8.7		
	-18 B		7.3	—	6.9		
20	-19		7.2	—	8		
	-20		7.1	—	7		
	MS 187020-12F		9.5	2	10.05		
	MSD -12F		9.5	2	10.1		

* If Acid Vol to 4.5 is < 2.0mL, redo using 100mL sample volume. If still < 2.0mL, go on to Low Alkalinity

SJ 6/2 6/2/06 [illegible] 6/2/06

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 114085
Date Started: 02-JUN-2006
Batched by : Stephanie Jim

Analysis : ALKALINITY
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
187020-001			Treadwell & Rollo	Water	ALKALINITY	06-JUN-2006
187020-002			Treadwell & Rollo	Water	ALKALINITY	06-JUN-2006
187020-003			Treadwell & Rollo	Water	ALKALINITY	06-JUN-2006
187020-004			Treadwell & Rollo	Water	ALKALINITY	06-JUN-2006
187020-005			Treadwell & Rollo	Water	ALKALINITY	06-JUN-2006
187020-006			Treadwell & Rollo	Water	ALKALINITY	06-JUN-2006
187020-007			Treadwell & Rollo	Water	ALKALINITY	06-JUN-2006
187020-008			Treadwell & Rollo	Water	ALKALINITY	06-JUN-2006
187020-009			Treadwell & Rollo	Water	ALKALINITY	06-JUN-2006
187020-010			Treadwell & Rollo	Water	ALKALINITY	06-JUN-2006
187020-012			Treadwell & Rollo	Water	ALKALINITY	06-JUN-2006
187020-013			Treadwell & Rollo	Water	ALKALINITY	06-JUN-2006
187020-014			Treadwell & Rollo	Water	ALKALINITY	06-JUN-2006
187020-015			Treadwell & Rollo	Water	ALKALINITY	06-JUN-2006
187020-017			Treadwell & Rollo	Water	ALKALINITY	06-JUN-2006
187020-018			Treadwell & Rollo	Water	ALKALINITY	06-JUN-2006
187020-019			Treadwell & Rollo	Water	ALKALINITY	06-JUN-2006
187020-020			Treadwell & Rollo	Water	ALKALINITY	06-JUN-2006
QC342607	BLANK			Water	ALKALINITY	
QC342608	LCS			Water	ALKALINITY	
QC342609	MS	of 187020-012		Water	ALKALINITY	
QC342610	MSD	of 187020-012		Water	ALKALINITY	

Curtis & Tompkins, Ltd.

Chloride

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Batch#:	113810
Matrix:	Water	Received:	05/24/06
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Diln Fac	Sampled	Analyzed
600GW101	SAMPLE	187020-001	90	5.0	25.00	05/23/06 12:00	05/25/06 04:45
600GW105	SAMPLE	187020-002	86	5.0	25.00	05/23/06 14:56	05/25/06 05:03
600GW106	SAMPLE	187020-003	37	2.0	10.00	05/23/06 13:50	05/25/06 05:21
600GW108	SAMPLE	187020-004	18	0.20	1.000	05/23/06 12:55	05/24/06 17:31
610GW101	SAMPLE	187020-005	43	2.0	10.00	05/23/06 09:36	05/25/06 05:38
610GW102	SAMPLE	187020-006	45	2.0	10.00	05/23/06 10:04	05/25/06 05:56
610GW103	SAMPLE	187020-007	47	2.0	10.00	05/23/06 11:00	05/25/06 07:23
DUP0523061A	SAMPLE	187020-008	47	2.0	10.00	05/23/06	05/25/06 07:41
BB3GW100	SAMPLE	187020-009	200	5.0	25.00	05/23/06 15:15	05/25/06 01:15
DUP0523063A	SAMPLE	187020-010	200	5.0	25.00	05/23/06 15:20	05/25/06 01:33
BB3SW104	SAMPLE	187020-012	95	2.0	10.00	05/23/06 13:30	05/25/06 07:58
BB3SW102	SAMPLE	187020-013	150	5.0	25.00	05/23/06 12:50	05/25/06 08:16
BB1PZ101	SAMPLE	187020-014	260	5.0	25.00	05/23/06 10:00	05/25/06 04:28
BB1PZ100	SAMPLE	187020-015	230	5.0	25.00	05/23/06 10:35	05/25/06 01:50
LF6GW103	SAMPLE	187020-017	41	2.0	10.00	05/23/06 10:50	05/25/06 03:18
LF6GW104	SAMPLE	187020-018	31	2.0	10.00	05/23/06 12:10	05/25/06 03:35
LF6GW105	SAMPLE	187020-019	89	5.0	25.00	05/23/06 13:25	05/25/06 03:53
LF6GW106	SAMPLE	187020-020	62	2.0	10.00	05/23/06 14:20	05/25/06 04:10
	BLANK	QC341518	ND	0.20	1.000		05/24/06 12:57

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Fluoride

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Diln Fac:	1.000
Matrix:	Water	Batch#:	113810
Units:	mg/L	Received:	05/24/06

Field ID	Type	Lab ID	Result	RL	Sampled	Analyzed
600GW101	SAMPLE	187020-001	0.37	0.10	05/23/06 12:00	05/24/06 16:39
600GW105	SAMPLE	187020-002	0.29	0.10	05/23/06 14:56	05/24/06 16:56
600GW106	SAMPLE	187020-003	0.17	0.10	05/23/06 13:50	05/24/06 17:14
600GW108	SAMPLE	187020-004	0.65	0.10	05/23/06 12:55	05/24/06 17:31
610GW101	SAMPLE	187020-005	0.20	0.10	05/23/06 09:36	05/24/06 17:49
610GW102	SAMPLE	187020-006	0.22	0.10	05/23/06 10:04	05/24/06 19:25
610GW103	SAMPLE	187020-007	0.24	0.10	05/23/06 11:00	05/24/06 19:43
DUP0523061A	SAMPLE	187020-008	0.24	0.10	05/23/06	05/24/06 20:00
BB3GW100	SAMPLE	187020-009	ND	0.10	05/23/06 15:15	05/24/06 20:18
DUP0523063A	SAMPLE	187020-010	ND	0.10	05/23/06 15:20	05/24/06 20:35
BB3SW104	SAMPLE	187020-012	0.10	0.10	05/23/06 13:30	05/24/06 20:53
BB3SW102	SAMPLE	187020-013	ND	0.10	05/23/06 12:50	05/24/06 21:10
BB1PZ101	SAMPLE	187020-014	0.26	0.10	05/23/06 10:00	05/24/06 21:28
BB1PZ100	SAMPLE	187020-015	0.12	0.10	05/23/06 10:35	05/24/06 23:30
LF6GW103	SAMPLE	187020-017	ND	0.10	05/23/06 10:50	05/24/06 23:48
LF6GW104	SAMPLE	187020-018	ND	0.10	05/23/06 12:10	05/25/06 00:05
LF6GW105	SAMPLE	187020-019	ND	0.10	05/23/06 13:25	05/25/06 00:23
LF6GW106	SAMPLE	187020-020	ND	0.10	05/23/06 14:20	05/25/06 00:40
	BLANK	QC341518	ND	0.10		05/24/06 12:57

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrate Nitrogen

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Batch#:	113810
Matrix:	Water	Received:	05/24/06
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Diln Fac	Sampled	Analyzed
600GW101	SAMPLE	187020-001	ND	0.05	1.000	05/23/06 12:00	05/24/06 16:39
600GW105	SAMPLE	187020-002	0.79	0.05	1.000	05/23/06 14:56	05/24/06 16:56
600GW106	SAMPLE	187020-003	4.8	0.05	1.000	05/23/06 13:50	05/24/06 17:14
600GW108	SAMPLE	187020-004	0.43	0.05	1.000	05/23/06 12:55	05/24/06 17:31
610GW101	SAMPLE	187020-005	ND	0.05	1.000	05/23/06 09:36	05/24/06 17:49
610GW102	SAMPLE	187020-006	0.57	0.05	1.000	05/23/06 10:04	05/24/06 19:25
610GW103	SAMPLE	187020-007	ND	0.05	1.000	05/23/06 11:00	05/24/06 19:43
DUP0523061A	SAMPLE	187020-008	ND	0.05	1.000	05/23/06	05/24/06 20:00
BB3GW100	SAMPLE	187020-009	7.9	1.3	25.00	05/23/06 15:15	05/25/06 01:15
DUP0523063A	SAMPLE	187020-010	7.8	1.3	25.00	05/23/06 15:20	05/25/06 01:33
BB3SW104	SAMPLE	187020-012	2.8	0.05	1.000	05/23/06 13:30	05/24/06 20:53
BB3SW102	SAMPLE	187020-013	4.4	0.05	1.000	05/23/06 12:50	05/24/06 21:10
BB1PZ101	SAMPLE	187020-014	ND	0.05	1.000	05/23/06 10:00	05/24/06 21:28
BB1PZ100	SAMPLE	187020-015	ND	0.05	1.000	05/23/06 10:35	05/24/06 23:30
LF6GW103	SAMPLE	187020-017	3.2	0.05	1.000	05/23/06 10:50	05/24/06 23:48
LF6GW104	SAMPLE	187020-018	5.7	0.50	10.00	05/23/06 12:10	05/25/06 03:35
LF6GW105	SAMPLE	187020-019	4.8	0.05	1.000	05/23/06 13:25	05/25/06 00:23
LF6GW106	SAMPLE	187020-020	8.7	0.50	10.00	05/23/06 14:20	05/25/06 04:10
	BLANK	QC341518	ND	0.05	1.000		05/24/06 12:57

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrite Nitrogen

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Diln Fac:	1.000
Matrix:	Water	Batch#:	113810
Units:	mg/L	Received:	05/24/06

Field ID	Type	Lab ID	Result	RL	Sampled	Analyzed
600GW101	SAMPLE	187020-001	ND	0.05	05/23/06 12:00	05/24/06 16:39
600GW105	SAMPLE	187020-002	ND	0.05	05/23/06 14:56	05/24/06 16:56
600GW106	SAMPLE	187020-003	0.11	0.05	05/23/06 13:50	05/24/06 17:14
600GW108	SAMPLE	187020-004	ND	0.05	05/23/06 12:55	05/24/06 17:31
610GW101	SAMPLE	187020-005	ND	0.05	05/23/06 09:36	05/24/06 17:49
610GW102	SAMPLE	187020-006	ND	0.05	05/23/06 10:04	05/24/06 19:25
610GW103	SAMPLE	187020-007	ND	0.05	05/23/06 11:00	05/24/06 19:43
DUP0523061A	SAMPLE	187020-008	ND	0.05	05/23/06	05/24/06 20:00
BB3GW100	SAMPLE	187020-009	ND	0.05	05/23/06 15:15	05/24/06 20:18
DUP0523063A	SAMPLE	187020-010	ND	0.05	05/23/06 15:20	05/24/06 20:35
BB3SW104	SAMPLE	187020-012	ND	0.05	05/23/06 13:30	05/24/06 20:53
BB3SW102	SAMPLE	187020-013	ND	0.05	05/23/06 12:50	05/24/06 21:10
BB1PZ101	SAMPLE	187020-014	ND	0.05	05/23/06 10:00	05/24/06 21:28
BB1PZ100	SAMPLE	187020-015	ND	0.05	05/23/06 10:35	05/24/06 23:30
LF6GW103	SAMPLE	187020-017	ND	0.05	05/23/06 10:50	05/24/06 23:48
LF6GW104	SAMPLE	187020-018	ND	0.05	05/23/06 12:10	05/25/06 00:05
LF6GW105	SAMPLE	187020-019	ND	0.05	05/23/06 13:25	05/25/06 00:23
LF6GW106	SAMPLE	187020-020	ND	0.05	05/23/06 14:20	05/25/06 00:40
	BLANK	QC341518	ND	0.05		05/24/06 12:57

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Sulfate

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Batch#:	113810
Matrix:	Water	Received:	05/24/06
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Diln Fac	Sampled	Analyzed
600GW101	SAMPLE	187020-001	1.1	0.50	1.000	05/23/06 12:00	05/24/06 16:39
600GW105	SAMPLE	187020-002	56	13	25.00	05/23/06 14:56	05/25/06 05:03
600GW106	SAMPLE	187020-003	86	5.0	10.00	05/23/06 13:50	05/25/06 05:21
600GW108	SAMPLE	187020-004	22	0.50	1.000	05/23/06 12:55	05/24/06 17:31
610GW101	SAMPLE	187020-005	0.63	0.50	1.000	05/23/06 09:36	05/24/06 17:49
610GW102	SAMPLE	187020-006	46	0.50	1.000	05/23/06 10:04	05/24/06 19:25
610GW103	SAMPLE	187020-007	67	5.0	10.00	05/23/06 11:00	05/25/06 07:23
DUP0523061A	SAMPLE	187020-008	68	5.0	10.00	05/23/06	05/25/06 07:41
BB3GW100	SAMPLE	187020-009	49	13	25.00	05/23/06 15:15	05/25/06 01:15
DUP0523063A	SAMPLE	187020-010	48	13	25.00	05/23/06 15:20	05/25/06 01:33
BB3SW104	SAMPLE	187020-012	29	0.50	1.000	05/23/06 13:30	05/24/06 20:53
BB3SW102	SAMPLE	187020-013	40	0.50	1.000	05/23/06 12:50	05/24/06 21:10
BB1PZ101	SAMPLE	187020-014	150	13	25.00	05/23/06 10:00	05/25/06 04:28
BB1PZ100	SAMPLE	187020-015	110	13	25.00	05/23/06 10:35	05/25/06 01:50
LF6GW103	SAMPLE	187020-017	90	5.0	10.00	05/23/06 10:50	05/25/06 03:18
LF6GW104	SAMPLE	187020-018	210	5.0	10.00	05/23/06 12:10	05/25/06 03:35
LF6GW105	SAMPLE	187020-019	110	13	25.00	05/23/06 13:25	05/25/06 03:53
LF6GW106	SAMPLE	187020-020	120	5.0	10.00	05/23/06 14:20	05/25/06 04:10
	BLANK	QC341518	ND	0.50	1.000		05/24/06 12:57

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chloride

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Units:	mg/L
Field ID:	BB3SW104	Batch#:	113810
MSS Lab ID:	187020-012	Sampled:	05/23/06 13:30
Matrix:	Water	Received:	05/24/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed
BS	QC341519		4.000	4.055	101	80-120			1.000	05/24/06 13:15
BSD	QC341520		4.000	4.031	101	80-120	1	20	1.000	05/24/06 13:32
MS	QC341521	94.93	20.00	113.3	92 NM	80-120			10.00	05/24/06 22:55
MSD	QC341522		20.00	113.0	90 NM	80-120	0	25	10.00	05/24/06 23:13

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Fluoride

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Units:	mg/L
Field ID:	BB3SW104	Batch#:	113810
MSS Lab ID:	187020-012	Sampled:	05/23/06 13:30
Matrix:	Water	Received:	05/24/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed
BS	QC341519		2.000	1.966	98	80-120			1.000	05/24/06 13:15
BSD	QC341520		2.000	2.010	101	80-120	2	20	1.000	05/24/06 13:32
MS	QC341521	0.1005	10.00	9.257	92	77-120			10.00	05/24/06 22:55
MSD	QC341522		10.00	9.160	91	77-120	1	20	10.00	05/24/06 23:13

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrate Nitrogen

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Units:	mg/L
Field ID:	BB3SW104	Batch#:	113810
MSS Lab ID:	187020-012	Sampled:	05/23/06 13:30
Matrix:	Water	Received:	05/24/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed
BS	QC341519		1.000	0.9842	98	80-120			1.000	05/24/06 13:15
BSD	QC341520		1.000	0.9862	99	80-120	0	20	1.000	05/24/06 13:32
MS	QC341521	2.771	5.000	7.501	95	80-120			10.00	05/24/06 22:55
MSD	QC341522		5.000	7.439	93	80-120	1	25	10.00	05/24/06 23:13

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrite Nitrogen

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Units:	mg/L
Field ID:	BB3SW104	Batch#:	113810
MSS Lab ID:	187020-012	Sampled:	05/23/06 13:30
Matrix:	Water	Received:	05/24/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed
BS	QC341519		1.000	1.062	106	80-120			1.000	05/24/06 13:15
BSD	QC341520		1.000	1.064	106	80-120	0	20	1.000	05/24/06 13:32
MS	QC341521	0.01956	5.000	5.319	106	80-120			10.00	05/24/06 22:55
MSD	QC341522		5.000	5.124	102	80-120	4	25	10.00	05/24/06 23:13

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Sulfate

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Units:	mg/L
Field ID:	BB3SW104	Batch#:	113810
MSS Lab ID:	187020-012	Sampled:	05/23/06 13:30
Matrix:	Water	Received:	05/24/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed
BS	QC341519		10.00	10.61	106	80-120			1.000	05/24/06 13:15
BSD	QC341520		10.00	10.54	105	80-120	1	20	1.000	05/24/06 13:32
MS	QC341521	28.53	50.00	79.10	101	80-120			10.00	05/24/06 22:55
MSD	QC341522		50.00	77.95	99	80-120	1	25	10.00	05/24/06 23:13

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 300.0

Inst : IC01
Calnum : 606046871001

Date : 01-FEB-2006 13:28

Inj Vol: 25 uL

mas 2/2/06

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	032_2.000	606046871002	L1	01-FEB-2006 13:28	S1888 (500X)
L2	032_3.000	606046871003	L2	01-FEB-2006 13:46	S1888 (100X)
L3	032_4.000	606046871004	L3	01-FEB-2006 14:03	S1888 (25X)
L4	032_5.000	606046871005	L4	01-FEB-2006 14:21	S1888 (10X)
L5	032_6.000	606046871006	L5	01-FEB-2006 14:38	S1888 (5X)

Analyte	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MnR^2	Flags
Fluoride	0.2528	0.2613	0.2883	0.2940	0.3105	QORG	A		0.278548	0.003187	mg/L	0.2814	1.000	0.990	
Chloride	0.1745	0.1698	0.1822	0.1890	0.2055	QORG	A		0.173571	0.001594	mg/L	0.1842	1.000	0.990	
Nitrogen, Nitrite	0.3864	0.3575	0.3722	0.3676	0.3830	QORG	A		0.357447	0.005065	mg/L	0.3733	1.000	0.990	
Bromide	0.0765	0.0774	0.0807	0.0787	0.0812	QORG	A		0.077484	1.818E-4	mg/L	0.0789	1.000	0.990	
Nitrogen, Nitrate	0.4498	0.4302	0.4579	0.4590	0.4824	QORG	A		0.440113	0.008413	mg/L	0.4558	1.000	0.990	
Orthophosphate (as P)	0.1717	0.2172	0.2560	0.2220	0.2112	QORG	A		0.242367	-0.00158	mg/L	0.2156	0.999	0.990	NT
Sulfate	0.1233	0.1237	0.1314	0.1331	0.1412	QORG	A		0.126102	3.005E-4	mg/L	0.1305	1.000	0.990	

MAS 2/1/06

483

NT = non-target

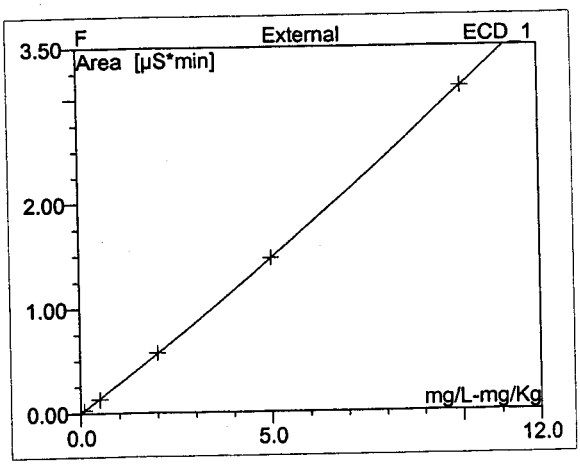
QORG=Quadratic regression forced through origin

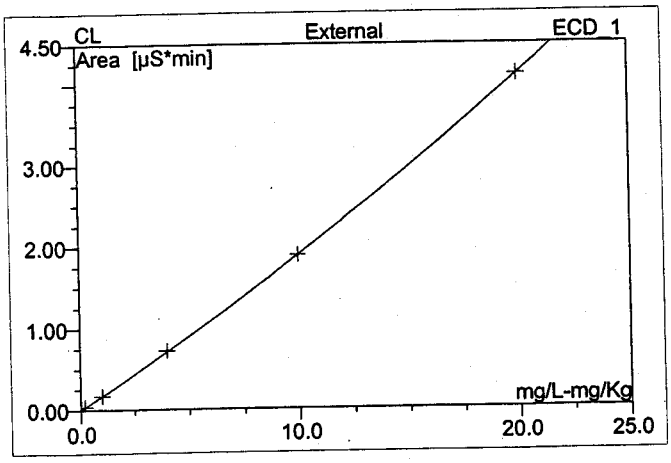
Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

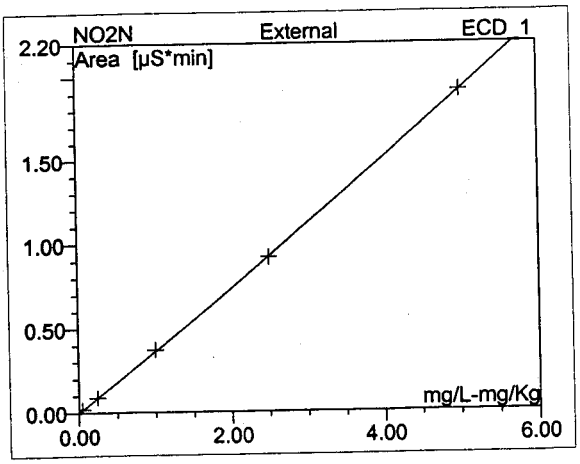
606046871001

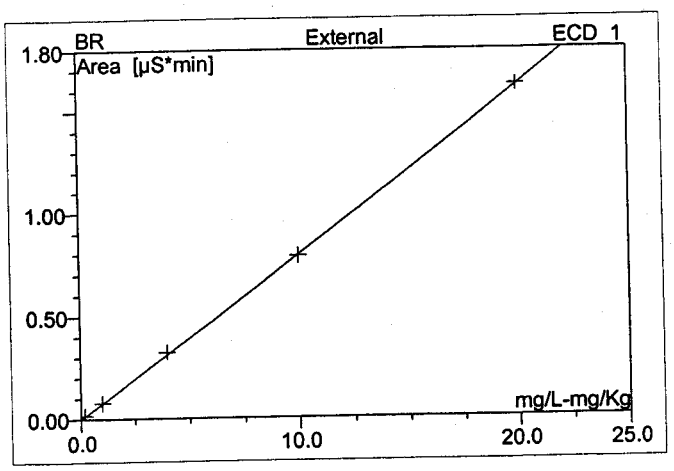
IC01 Calibration Batch Report

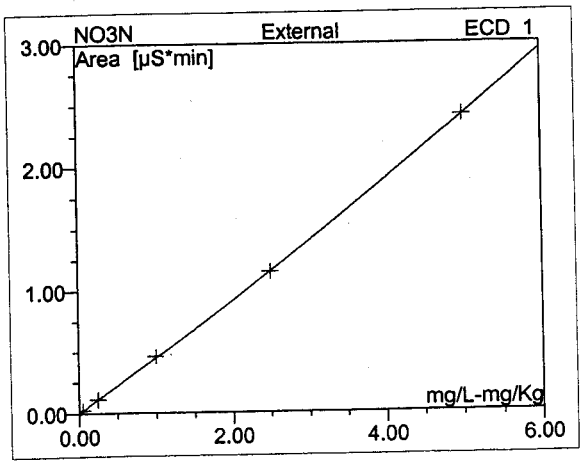
Sequence:	032	Inj. Vol.:	25.0
Program:	IC01-7AN	Operator:	PC_NEWIC
Inj. Date/Time:	02/01/06 14:03	Run Time:	15.00

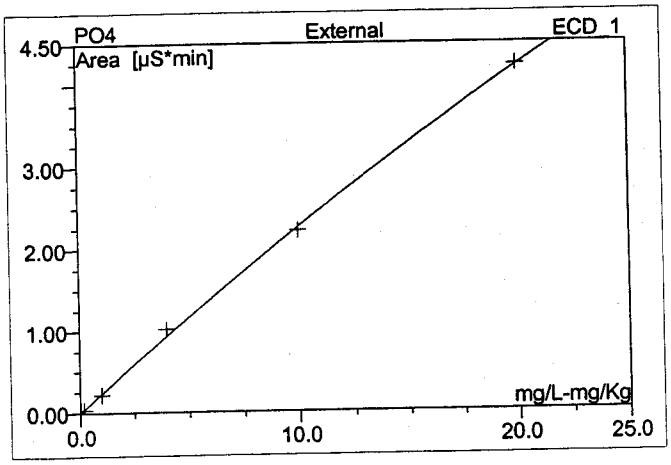




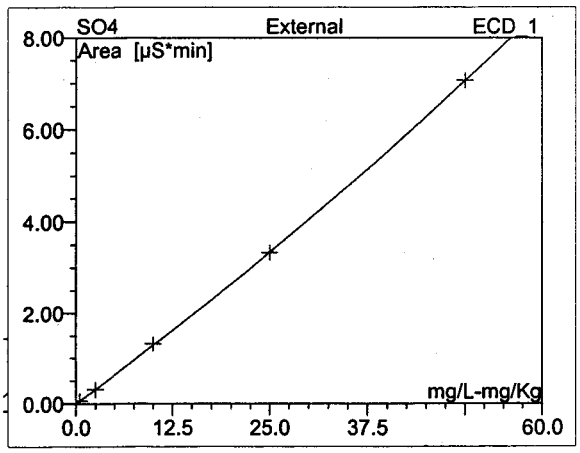








Sequence:	032	*Inj. Vol.:*	25.0
Program:	IC01-7AN	*Operator:*	n.a.
Inj. Date/Time:	02/01/06 14:03	*Run Time:*	15.00



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	3.37	F	Quad	5	0.000000	0.278548	0.003187	99.966068
2	4.89	CL	Quad	5	0.000000	0.173571	0.001594	99.916153
4	5.79	NO2N	Quad	5	0.000000	0.357447	0.005065	99.979455
5	7.33	BR	Quad	5	0.000000	0.077484	0.000182	99.987414
6	8.26	NO3N	Quad	5	0.000000	0.440112	0.008413	99.970779
7	10.28	PO4	Quad	5	0.000000	0.242367	-0.001578	99.885417
8	12.17	SO4	Quad	5	0.000000	0.126102	0.000301	99.958961
AVERAGE:					0.000000	0.242233	0.002452	99.952035

No.	Name	Area µS*min F ECD_1	Area µS*min CL ECD_1	Area µS*min NO2N ECD_1	Area µS*min BR ECD_1	Area µS*min NO3N ECD_1	Area µS*min PO4 ECD_1	Area µS*min SO4 ECD_1
2	ICAL,L1,S188	0.025275	0.034903	0.019321	0.015298	0.022490	0.034330	0.061629
3	ICAL,L2,S188	0.130653	0.169780	0.089380	0.077435	0.107540	0.217220	0.309323
4	ICAL,L3,S188	0.576603	0.728921	0.372151	0.322907	0.457889	1.024032	1.314019
5	ICAL,L4,S188	1.469972	1.890327	0.919106	0.786634	1.147425	2.219833	3.327253
6	ICAL,L5,S188	3.104502	4.110030	1.915021	1.623599	2.411883	4.224545	7.058845

No.	Name	Height µS F ECD_1	Height µS CL ECD_1	Height µS NO2N ECD_1	Height µS BR ECD_1	Height µS NO3N ECD_1	Height µS PO4 ECD_1	Height µS SO4 ECD_1
2	ICAL,L1,S188	0.214888	0.258158	0.107142	0.073826	0.090044	0.092472	0.173918
3	ICAL,L2,S188	1.091262	1.255538	0.520346	0.357736	0.437902	0.520594	0.860712
4	ICAL,L3,S188	4.846146	5.414854	2.167724	1.511584	1.866278	2.566166	3.696382
5	ICAL,L4,S188	12.797028	14.219142	5.393734	3.770806	4.728312	6.027548	9.511224
6	ICAL,L5,S188	27.169356	31.375536	11.293560	7.962244	10.100652	12.291378	20.783882

No.	Name	Amount mg/L-mg/Kg F ECD_1	Amount mg/L-mg/Kg CL ECD_1	Amount mg/L-mg/Kg NO2N ECD_1	Amount mg/L-mg/Kg BR ECD_1	Amount mg/L-mg/Kg NO3N ECD_1	Amount mg/L-mg/Kg PO4 ECD_1	Amount mg/L-mg/Kg SO4 ECD_1
2	ICAL,L1,S188	0.090645	0.200718	0.054011	0.197347	0.051052	0.141776	0.488153
3	ICAL,L2,S188	0.466559	0.969523	0.249171	0.997037	0.243215	0.901538	2.438779
4	ICAL,L3,S188	2.023200	4.048958	1.026211	4.127423	1.020484	4.348224	10.173592
5	ICAL,L4,S188	4.992160	9.976525	2.483881	9.921246	2.488719	9.781943	24.906875
6	ICAL,L5,S188	10.001057	20.003598	5.002836	20.014099	5.001893	20.046763	50.015285

Method File: IC01-7AN_CAL
Operator: ic_analyst

Printed: 3/22/2006 6:23:24 PM

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ

Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Inhibit Integration	On	ECD_1
2	3.000	Inhibit Integration	Off	ECD_1
3	3.010	Minimum Area	0.001 "[Signal]*min"	ECD_1
4	3.011	Peak Slice	0.05 s	ECD_1

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Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Comment	Amount ICAL,L1,S1888,500
1	F	3.347 min	5.000 RG	External	Area	Quad	Auto			0.100000
2	*CL*	*4.800 min*	*5.000 RG*	*External*	*Area*	*Quad*	*Auto*			*0.200000*
3	NO2N	5.653 min	5.000 RG	External	Area	Quad	Auto			0.050000
4	BR	7.107 min	5.000 RG	External	Area	Quad	Auto			0.200000
5	NO3N	7.997 min	10.000 RG	External	Area	Quad	Auto			0.050000
6	PO4	9.950 min	10.000 RG	External	Area	Quad	Auto			0.200000
7	SO4	11.803 min	10.000 RG	External	Area	Quad	Auto			0.500000

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Amount ICAL,L2,S1888,100	Amount ICAL,L3,S1888,25	Amount ICAL,L4,S1888,10	Amount ICAL,L5,S1888,5
1	F	3.347 min	0.500000	2.000000	5.000000	10.000000
2	*CL*	*4.800 min*	*1.000000*	*4.000000*	*10.000000*	*20.000000*
3	NO2N	5.653 min	0.250000	1.000000	2.500000	5.000000
4	BR	7.107 min	1.000000	4.000000	10.000000	20.000000
5	NO3N	7.997 min	0.250000	1.000000	2.500000	5.000000
6	PO4	9.950 min	1.000000	4.000000	10.000000	20.000000
7	SO4	11.803 min	2.500000	10.000000	25.000000	50.000000

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Resp.Fact.	Comment	Amount ICAL,L1,S1888,500	Amount ICAL,L2,S1888,100	Amount ICAL,L3,S1888,25	Amount ICAL,L4,S1888,10
1	F	3.347 min	1.000000		0.100000	0.500000	2.000000	5.000000
2	*CL*	*4.800 min*	*1.000000*		*0.200000*	*1.000000*	*4.000000*	*10.000000*
3	NO2N	5.653 min	1.000000		0.050000	0.250000	1.000000	2.500000
4	BR	7.107 min	1.000000		0.200000	1.000000	4.000000	10.000000
5	NO3N	7.997 min	1.000000		0.050000	0.250000	1.000000	2.500000
6	PO4	9.950 min	1.000000		0.200000	1.000000	4.000000	10.000000
7	SO4	11.803 min	1.000000		0.500000	2.500000	10.000000	25.000000

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Amount ICAL,L5,S1888,5
1	F	3.347 min	10.000000
2	*CL*	*4.800 min*	*20.000000*
3	NO2N	5.653 min	5.000000
4	BR	7.107 min	20.000000
5	NO3N	7.997 min	5.000000
6	PO4	9.950 min	20.000000
7	SO4	11.803 min	50.000000

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Title: IC01-7AN_CAL
Datasource: DGLD4X01_local
Location: IC1_DX120\IC01-ANIONS-2006\074.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 3/16/2006 5:25:45 PM by ic_analyst

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

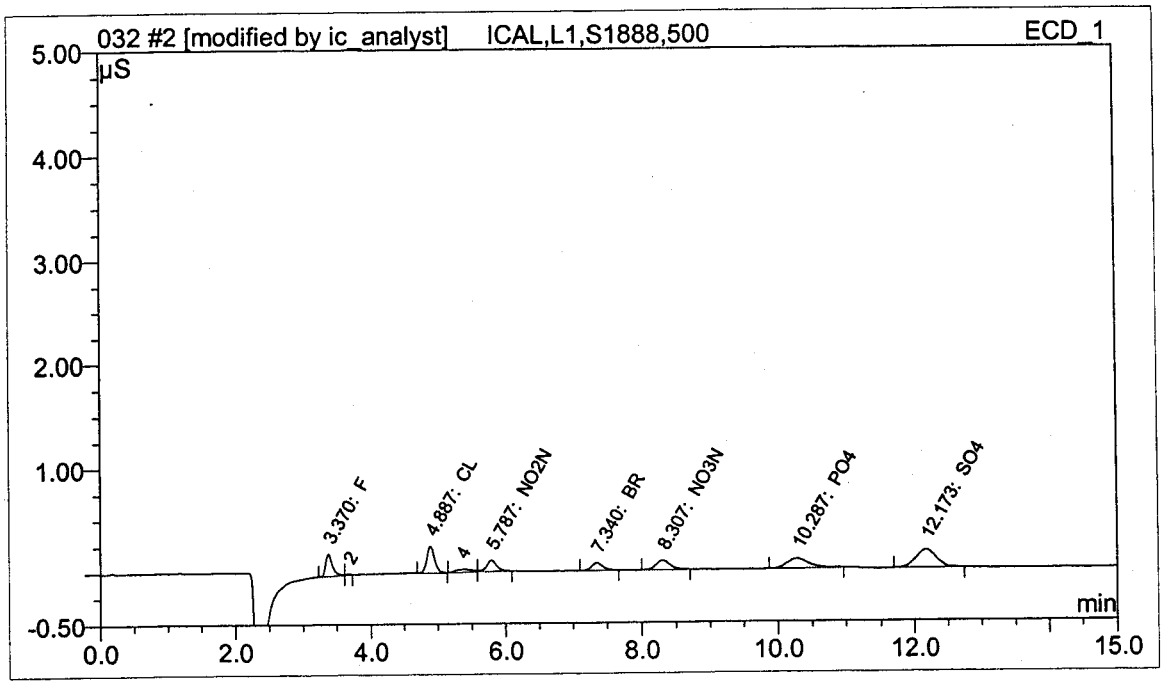
No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time	Calib. Comment
1	☒	ICAL,L1,S1888,500	2	70	25.0	1.0000	1.0000	1.0000	2/1/2006 1:28:35 PM	Ok
2	☒	ICAL,L2,S1888,100	3	35	25.0	1.0000	1.0000	1.0000	2/1/2006 1:46:06 PM	Ok
3	☒	ICAL,L3,S1888,25	4	35	25.0	1.0000	1.0000	1.0000	2/1/2006 2:03:37 PM	Ok
4	☒	ICAL,L4,S1888,10	5	36	25.0	1.0000	1.0000	1.0000	2/1/2006 2:21:08 PM	Ok
5	☒	ICAL,L5,S1888,5	6	37	25.0	1.0000	1.0000	1.0000	2/1/2006 2:38:38 PM	Ok

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L1,S1888,500	**Sample No.:**	2
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:28 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	0.025275	0.0906	0.0906	
3	CL	4.887	0.034903	0.2007	0.2007	
5	NO2N	5.787	0.019321	0.0540	0.0540	
6	BR	7.340	0.015298	0.1973	0.1973	
7	NO3N	8.307	0.022490	0.0511	0.0511	
8	PO4	10.287	0.034330	0.1418	0.1418	
9	SO4	12.173	0.061629	0.4882	0.4882	



ANALYZED BY: _____

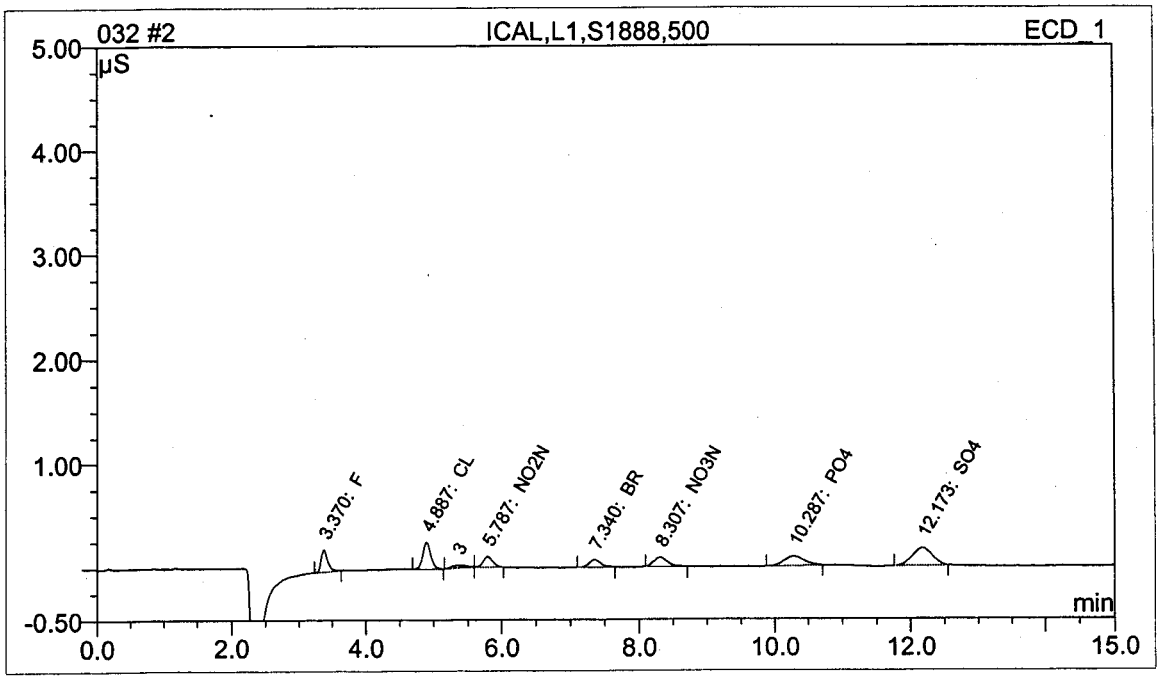
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L1,S1888,500	**Sample No.:**	2
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:28 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	0.024236	0.0869	0.0869	
2	CL	4.887	0.034903	0.2007	0.2007	
4	NO2N	5.787	0.015698	0.0439	0.0439	
5	BR	7.340	0.015043	0.1941	0.1941	
6	NO3N	8.307	0.020103	0.0456	0.0456	
7	PO4	10.287	0.031075	0.1283	0.1283	
8	SO4	12.173	0.056768	0.4497	0.4497	



ANALYZED BY: _____

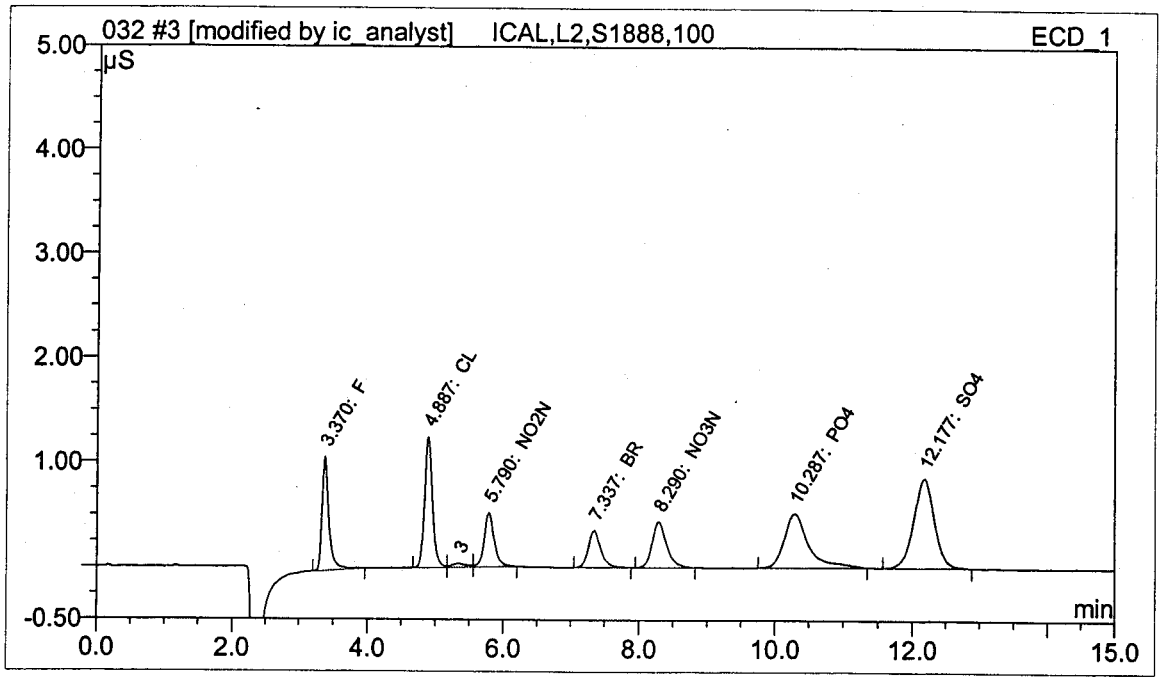
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L2,S1888,100	**Sample No.:**	3
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:46 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	0.130653	0.4666	0.4666	
2	CL	4.887	0.169780	0.9695	0.9695	
4	NO2N	5.790	0.089380	0.2492	0.2492	
5	BR	7.337	0.077435	0.9970	0.9970	
6	NO3N	8.290	0.107540	0.2432	0.2432	
7	PO4	10.287	0.217220	0.9015	0.9015	
8	SO4	12.177	0.309323	2.4388	2.4388	



ANALYZED BY:

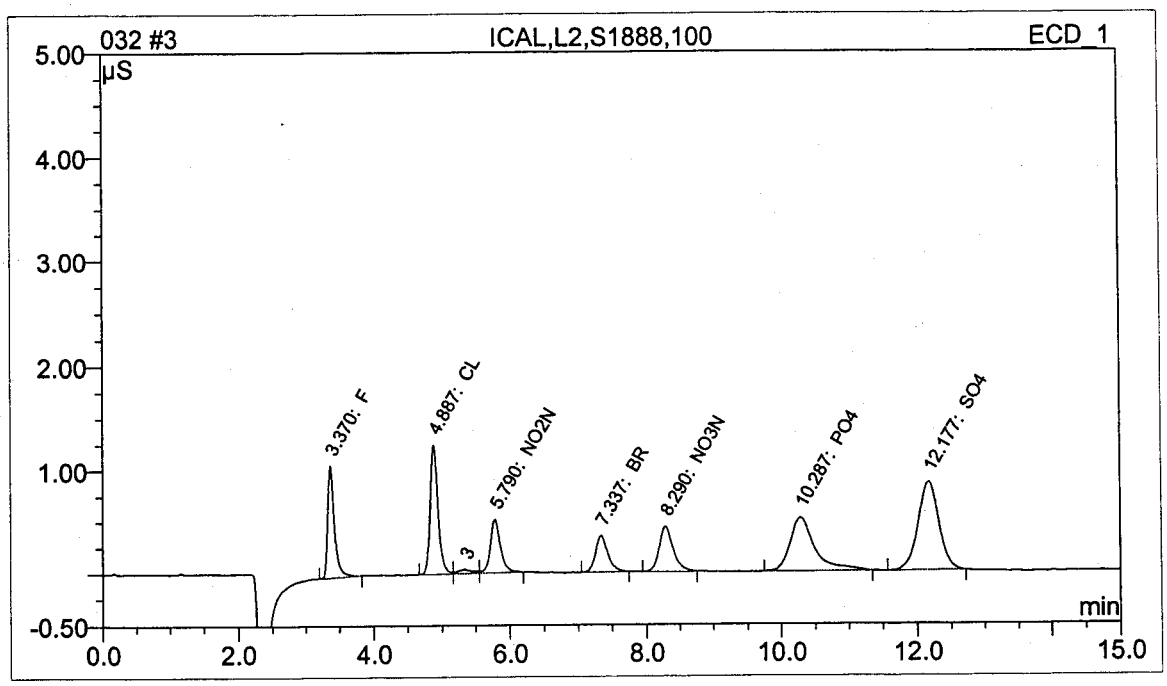
REVIEWED BY:

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L2,S1888,100	**Sample No.:**	3
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:46 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	0.127500	0.4556	0.4556	
2	CL	4.887	0.169780	0.9695	0.9695	
4	NO2N	5.790	0.089380	0.2492	0.2492	
5	BR	7.337	0.075668	0.9749	0.9749	
6	NO3N	8.290	0.106521	0.2410	0.2410	
7	PO4	10.287	0.217220	0.9015	0.9015	
8	SO4	12.177	0.303977	2.3979	2.3979	



ANALYZED BY: _____

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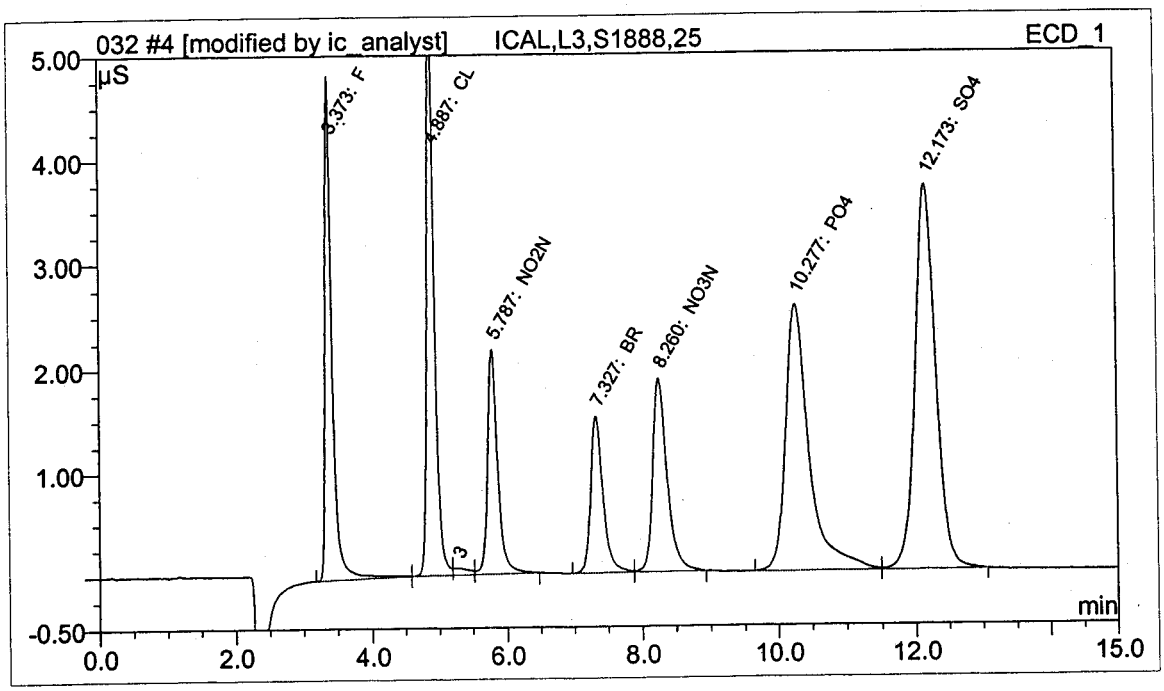
Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L3,S1888,25	**Sample No.:**	4
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:03 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.373	0.576603	2.0232	2.0232	
2	CL	4.887	0.728921	4.0490	4.0490	
4	NO2N	5.787	0.372151	1.0262	1.0262	
5	BR	7.327	0.322907	4.1274	4.1274	
6	NO3N	8.260	0.457889	1.0205	1.0205	
7	PO4	10.277	1.024032	4.3482	4.3482	
8	SO4	12.173	1.314019	10.1736	10.1736	



ANALYZED BY:

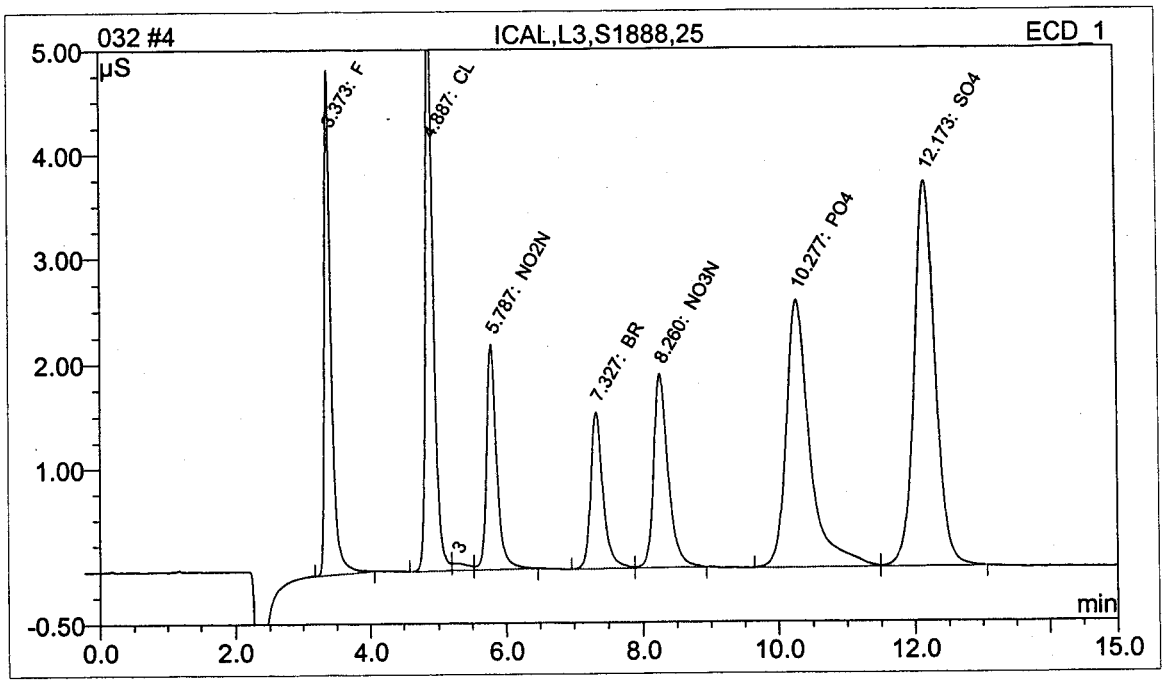
REVIEWED BY:

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L3,S1888,25	**Sample No.:**	4
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:03 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.373	0.560194	1.9831	1.9831	
2	CL	4.887	0.728921	4.0490	4.0490	
4	NO2N	5.787	0.372151	1.0262	1.0262	
5	BR	7.327	0.322907	4.1274	4.1274	
6	NO3N	8.260	0.457889	1.0205	1.0205	
7	PO4	10.277	1.024032	4.3482	4.3482	
8	SO4	12.173	1.314019	10.1736	10.1736	



ANALYZED BY: _____

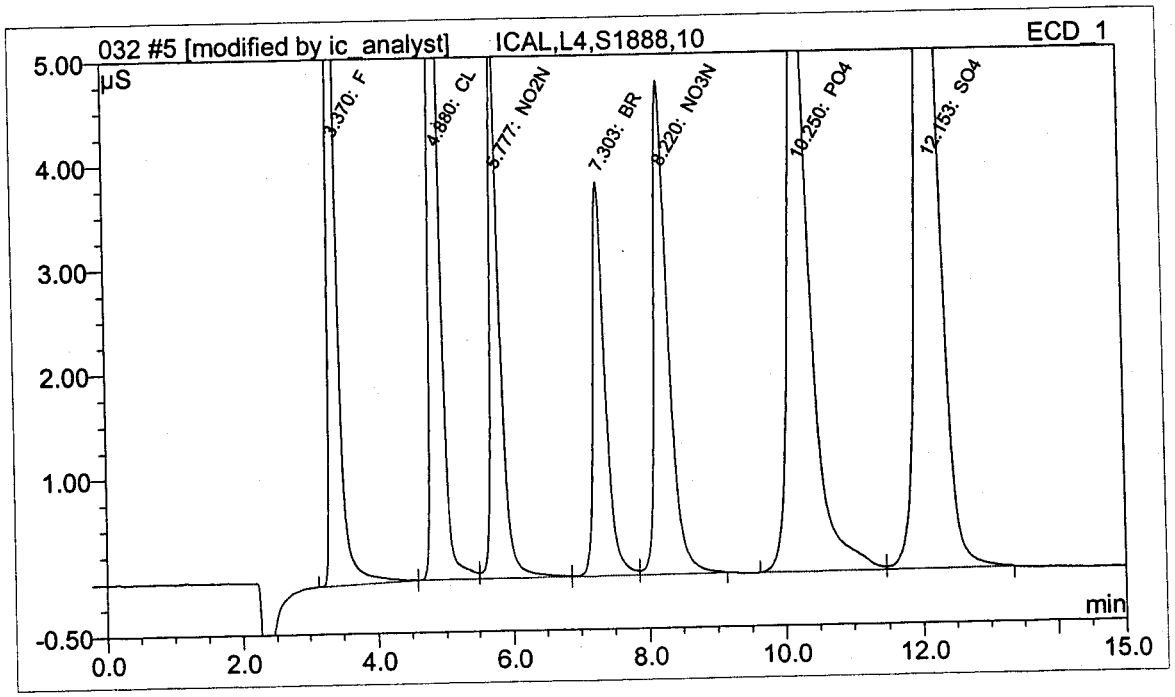
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L4,S1888,10	**Sample No.:**	5
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:21 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	1.469972	4.9922	4.9922	
2	CL	4.880	1.890327	9.9765	9.9765	
3	NO2N	5.777	0.919106	2.4839	2.4839	
4	BR	7.303	0.786634	9.9212	9.9212	
5	NO3N	8.220	1.147425	2.4887	2.4887	
6	PO4	10.250	2.219833	9.7819	9.7819	
7	SO4	12.153	3.327253	24.9069	24.9069	



ANALYZED BY: _____

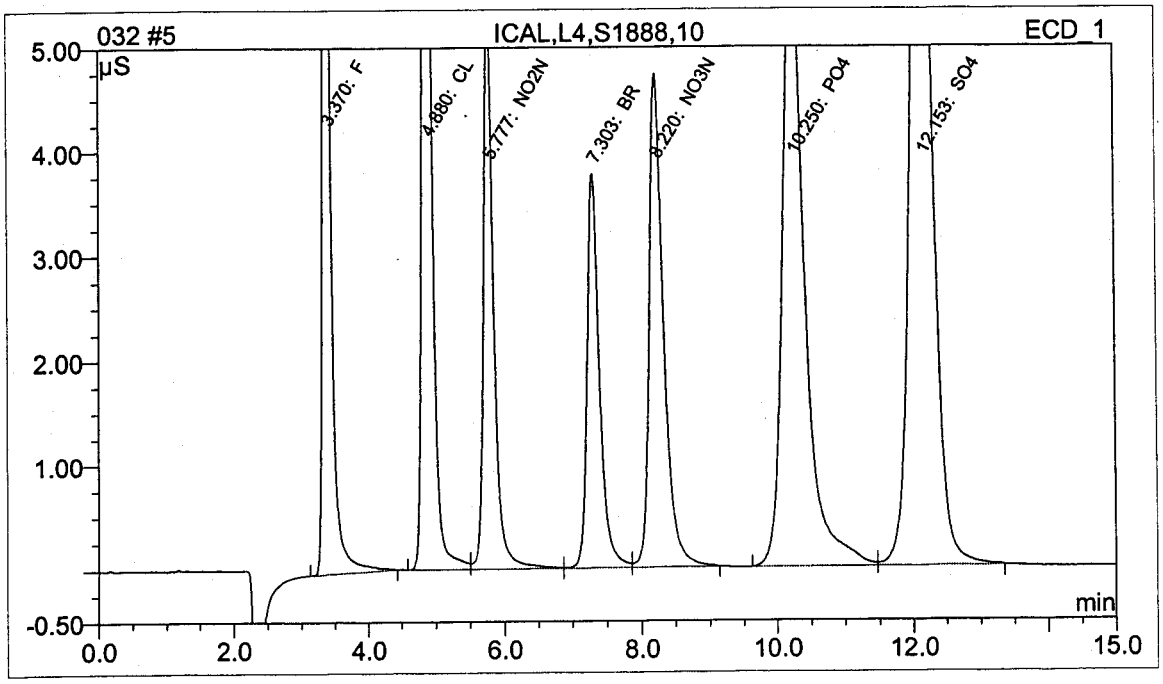
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L4,S1888,10	**Sample No.:**	5
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:21 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.370	1.463674	4.9860	4.9860	
2	CL	4.880	1.890327	9.9765	9.9765	
3	NO2N	5.777	0.919106	2.4839	2.4839	
4	BR	7.303	0.786634	9.9212	9.9212	
5	NO3N	8.220	1.147425	2.4887	2.4887	
6	PO4	10.250	2.219833	9.7819	9.7819	
7	SO4	12.153	3.327253	24.9069	24.9069	



ANALYZED BY: _____

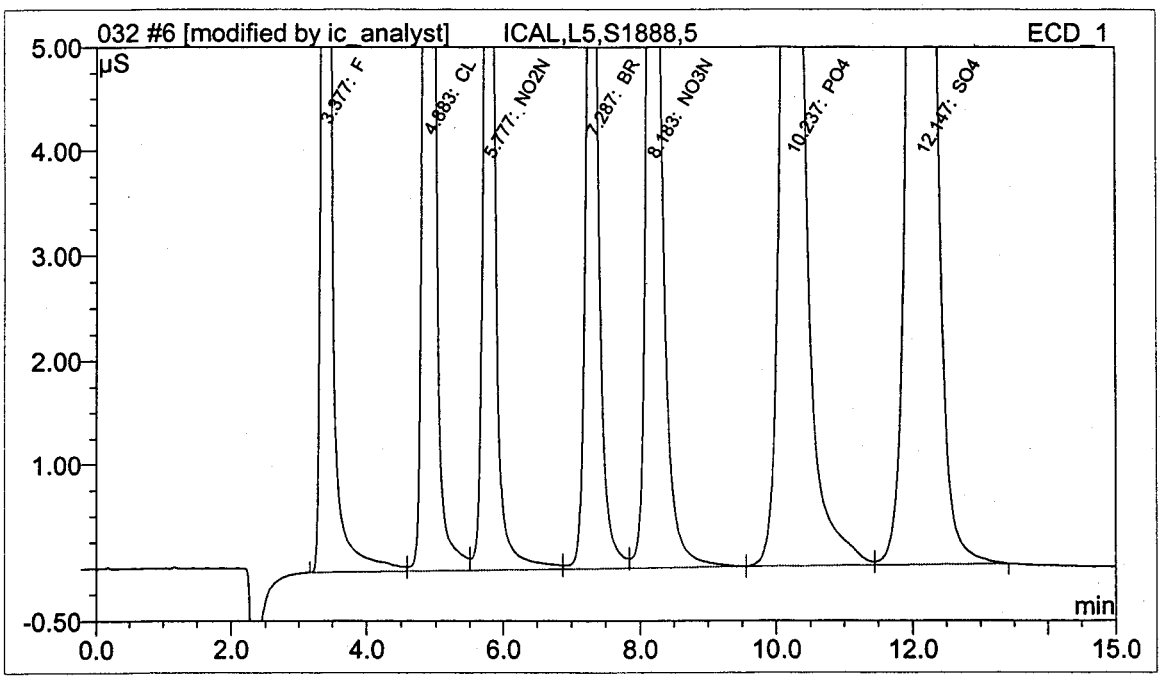
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L5,S1888,5	**Sample No.:**	6
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:38 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.377	3.104502	10.0011	10.0011	
2	CL	4.883	4.110030	20.0036	20.0036	
3	NO2N	5.777	1.915021	5.0028	5.0028	
4	BR	7.287	1.623599	20.0141	20.0141	
5	NO3N	8.183	2.411883	5.0019	5.0019	
6	PO4	10.237	4.224545	20.0468	20.0468	
7	SO4	12.147	7.058845	50.0153	50.0153	



ANALYZED BY: _____

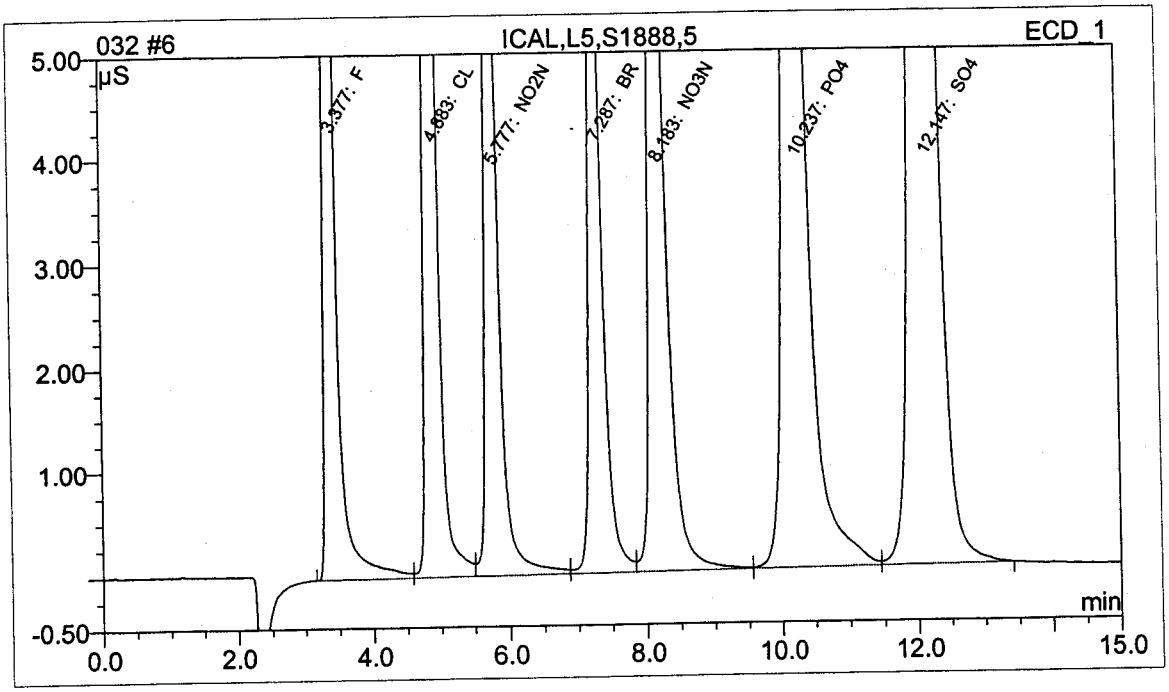
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICAL,L5,S1888,5	**Sample No.:**	6
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:38 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.377	3.105467	10.0011	10.0011	
2	CL	4.883	4.111657	20.0037	20.0037	
3	NO2N	5.777	1.918949	5.0029	5.0029	
4	BR	7.287	1.627431	20.0145	20.0145	
5	NO3N	8.183	2.420882	5.0021	5.0021	
6	PO4	10.237	4.233171	20.0470	20.0470	
7	SO4	12.147	7.061876	50.0155	50.0155	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606046871001 File : 032_1.000 Time : 01-FEB-2006 13:11
Cal : 606044228001 Caldate: 30-JAN-2006

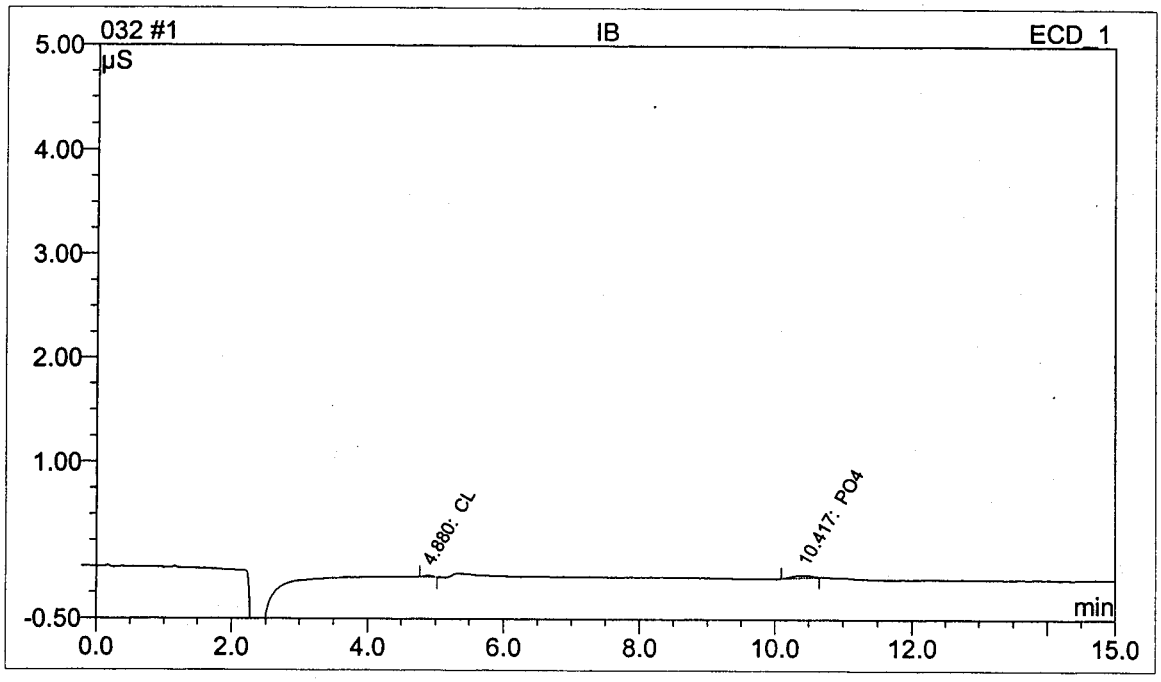
Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.006664	mg/L	
Bromide	ND	0.2000	0.05841	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Orthophosphate (as P)	ND	0.2000	0.04544	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

MAS 2/1/06

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	IB	**Sample No.:**	1
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 1:11 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
n.a.	F	n.a.	n.a.	n.a.	n.a.	
1	CL	4.880	0.001481	0.0085	0.0085	
n.a.	NO2N	n.a.	n.a.	n.a.	n.a.	
n.a.	BR	n.a.	n.a.	n.a.	n.a.	
n.a.	NO3N	n.a.	n.a.	n.a.	n.a.	
2	PO4	10.417	0.007365	0.0304	0.0304	
n.a.	SO4	n.a.	n.a.	n.a.	n.a.	



ANALYZED BY:

REVIEWED BY:

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS BLANK USER REPORT FOR EPA 300.0

:nst : IC01
:eqnum : 606046871008
'ile : 032_8.000
:DF : 1.0
:al : 606046871001

Lab ID : QC326493
Matrix : Water
Batch : 110078
PDF : 1.0
Caldate: 01-FEB-2006

Time : 01-FEB-2006 15:13
Units : mg/L

Analyte	Result	RL	Flags
Fluoride	ND	0.10	
Chloride	ND	0.20	
Nitrogen, Nitrite	ND	0.050	
Bromide	ND	0.20	
Nitrogen, Nitrate	ND	0.050	
Orthophosphate (as P)	0.13 J	0.20	B v+ b*
Sulfate	ND	0.50	

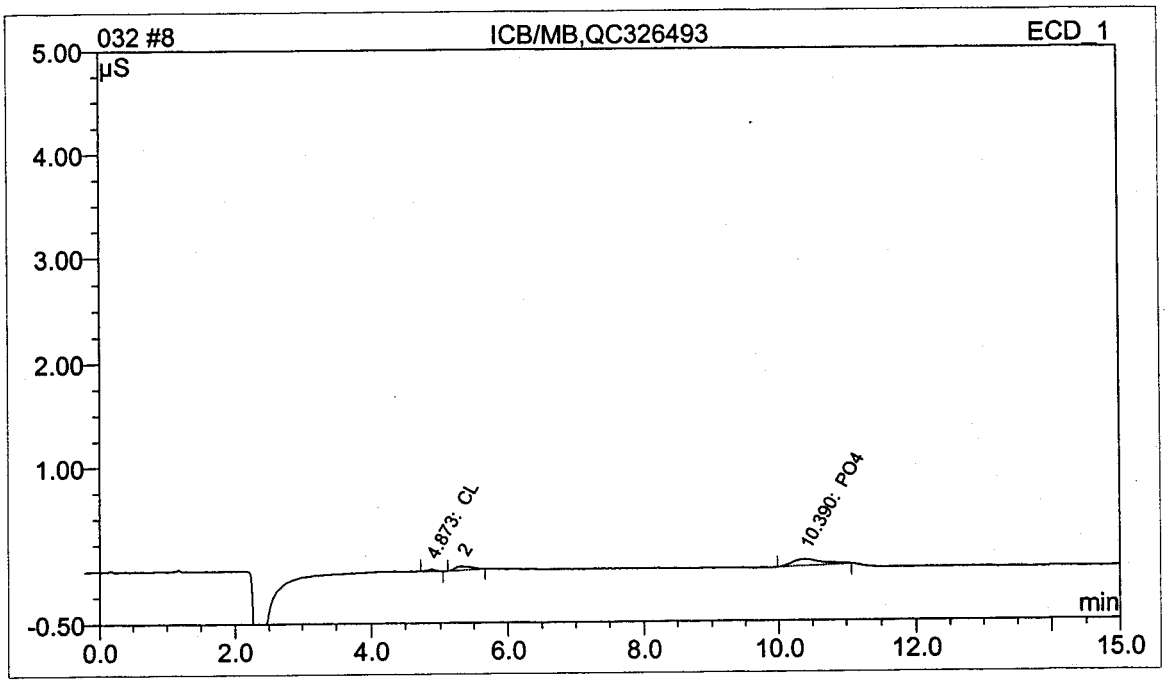
MCS 2/1/06

+=high bias B=method blank contamination b=noncompliant v=ICV

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICB/MB,QC326493	**Sample No.:**	8
Sequence Name:	032	**Batch #:**	110078
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 3:13 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
n.a.	F	n.a.	n.a.	n.a.	n.a.	
1	CL	4.873	0.002722	0.0157	0.0157	
n.a.	NO2N	n.a.	n.a.	n.a.	n.a.	
n.a.	BR	n.a.	n.a.	n.a.	n.a.	
n.a.	NO3N	n.a.	n.a.	n.a.	n.a.	
3	PO4	10.390	0.031850	0.1315	0.1315	
n.a.	SO4	n.a.	n.a.	n.a.	n.a.	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606046871007 File : 032_7.000 Time : 01-FEB-2006 14:56
Cal : 606046871001 Caldate: 01-FEB-2006

Standards: S1085 (5X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Fluoride	0.2814	0.2557	1.000	0.9085	mg/L	-9	10	
Chloride	0.1842	0.1638	2.000	1.856	mg/L	-7	10	
Nitrogen, Nitrite	0.3733	0.3488	0.5000	0.4846	mg/L	-3	10	
Bromide	0.0789	0.0774	2.000	1.990	mg/L	-1	10	
Nitrogen, Nitrate	0.4558	0.4001	0.5000	0.4506	mg/L	-10	10	
Orthophosphate (as P)	0.2156	0.2973	2.000	2.494	mg/L	**25**	10	v+ *** NT
Sulfate	0.1305	0.1253	5.000	4.911	mg/L	-2	10	

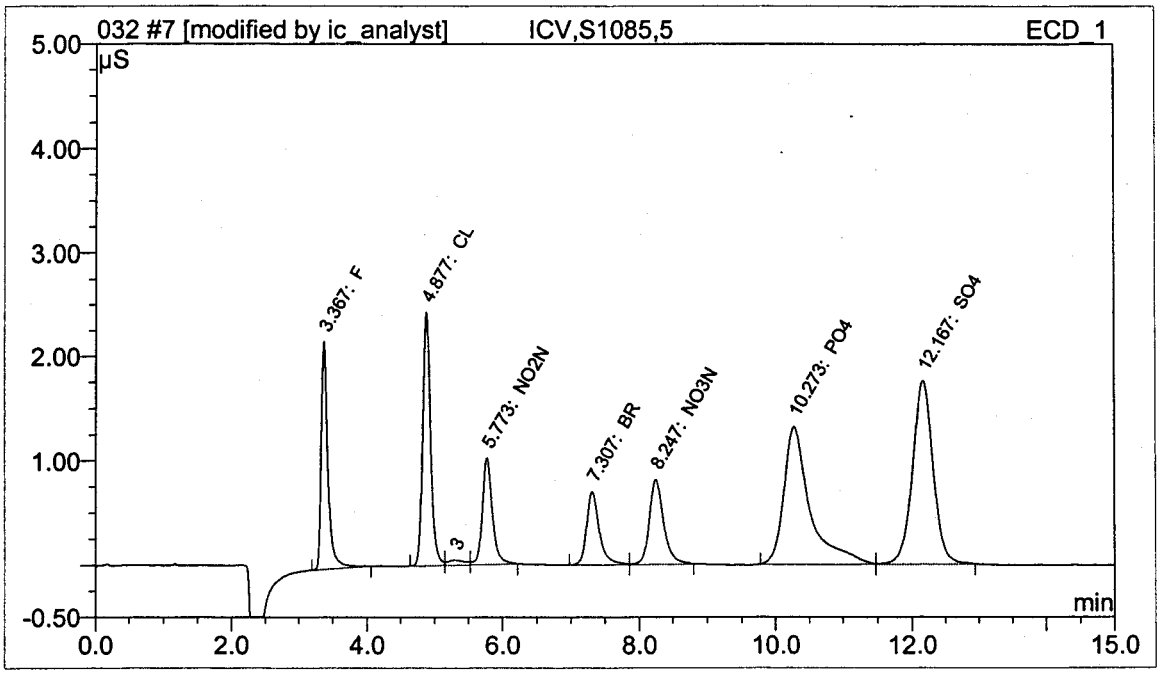
MAS 2/1/06

+=high bias v=ICV

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:56 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.367	0.255692	0.9085	0.9085	
2	CL	4.877	0.327591	1.8557	1.8557	
4	NO2N	5.773	0.174392	0.4846	0.4846	
5	BR	7.307	0.154881	1.9896	1.9896	
6	NO3N	8.247	0.200041	0.4506	0.4506	
7	PO4	10.273	0.594629	2.4939	2.4939	
8	SO4	12.167	0.626486	4.9106	4.9106	



ANALYZED BY: _____

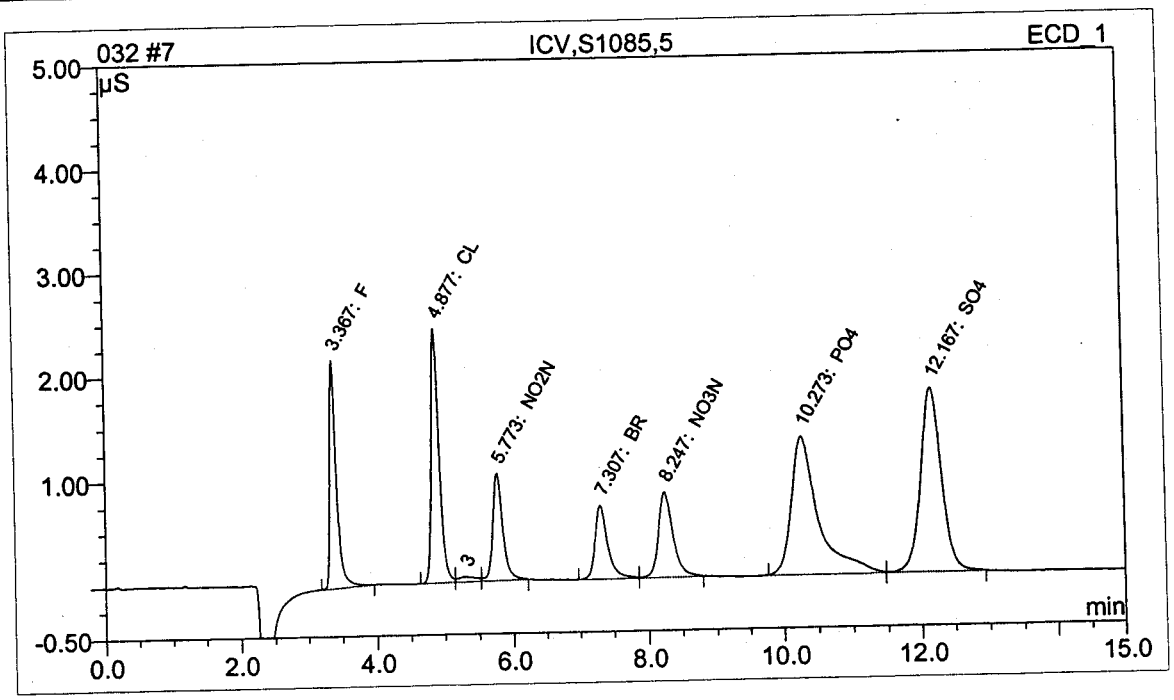
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC01

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	032	**Batch #:**	CAL-032
Program Method:	IC01-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC01-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC01-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	2/1/2006 2:56 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.367	0.253367	0.9003	0.9003	
2	CL	4.877	0.327591	1.8557	1.8557	
4	NO2N	5.773	0.174392	0.4846	0.4846	
5	BR	7.307	0.154881	1.9896	1.9896	
6	NO3N	8.247	0.200041	0.4506	0.4506	
7	PO4	10.273	0.594629	2.4939	2.4939	
8	SO4	12.167	0.626486	4.9106	4.9106	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CONTINUING CALIBRATION SUMMARY FOR 187020 IC Water
Curtis & Tompkins Laboratories

Analyte: Fluoride

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606208172007	24-MAY-2006 12:40	606046871001	01-FEB-2006	0.2814	0.2553	0.5000	0.4558	mg/L	-9	10	
IC01	P	606208172018	24-MAY-2006 18:12	606046871001	01-FEB-2006	0.2814	0.2631	2.0000	1.8502	mg/L	-7	10	
IC01	P	606208172030	24-MAY-2006 21:45	606046871001	01-FEB-2006	0.2814	0.2796	5.0000	4.7598	mg/L	-5	10	
IC01	P	606208172045	25-MAY-2006 02:08	606046871001	01-FEB-2006	0.2814	0.2555	0.5000	0.4562	mg/L	-9	10	

CONTINUING CALIBRATION SUMMARY FOR 187020 IC Water
Curtis & Tompkins Laboratories

Analyte: Chloride

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606208172007	24-MAY-2006 12:40	606046871001	01-FEB-2006	0.1842	0.1717	1.0000	0.9804	mg/L	-2	10	
IC01	P	606208172018	24-MAY-2006 18:12	606046871001	01-FEB-2006	0.1842	0.1807	4.0000	4.0151	mg/L	0	10	
IC01	P	606208172030	24-MAY-2006 21:45	606046871001	01-FEB-2006	0.1842	0.1911	10.000	10.078	mg/L	1	10	
IC01	P	606208172045	25-MAY-2006 02:08	606046871001	01-FEB-2006	0.1842	0.1695	1.0000	0.9680	mg/L	-3	10	
IC01	P	606208172059	25-MAY-2006 06:13	606046871001	01-FEB-2006	0.1842	0.1777	4.0000	3.9523	mg/L	-1	10	
IC01	P	606208172070	25-MAY-2006 09:26	606046871001	01-FEB-2006	0.1842	0.1897	10.000	10.010	mg/L	0	10	

CONTINUING CALIBRATION SUMMARY FOR 187020 IC Water
Curtis & Tompkins Laboratories

Analyte: Nitrogen, Nitrite

Instid	Ch	Segnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606208172007	24-MAY-2006 12:40	606046871001	01-FEB-2006	0.3733	0.3866	0.2500	0.2694	mg/L	8	10	
IC01	P	606208172018	24-MAY-2006 18:12	606046871001	01-FEB-2006	0.3733	0.3851	1.0000	1.0615	mg/L	6	10	
IC01	P	606208172030	24-MAY-2006 21:45	606046871001	01-FEB-2006	0.3733	0.3873	2.5000	2.6123	mg/L	4	10	
IC01	P	606208172045	25-MAY-2006 02:08	606046871001	01-FEB-2006	0.3733	0.3748	0.2500	0.2612	mg/L	4	10	

CONTINUING CALIBRATION SUMMARY FOR 187020 IC Water
Curtis & Tompkins Laboratories

Analyte: Nitrogen, Nitrate

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606208172007	24-MAY-2006 12:40	606046871001	01-FEB-2006	0.4558	0.4220	0.2500	0.2386	mg/L	-5	10	
IC01	P	606208172018	24-MAY-2006 18:12	606046871001	01-FEB-2006	0.4558	0.4296	1.0000	0.9584	mg/L	-4	10	
IC01	P	606208172030	24-MAY-2006 21:45	606046871001	01-FEB-2006	0.4558	0.4437	2.5000	2.4092	mg/L	-4	10	
IC01	P	606208172045	25-MAY-2006 02:08	606046871001	01-FEB-2006	0.4558	0.4223	0.2500	0.2388	mg/L	-4	10	
IC01	P	606208172059	25-MAY-2006 06:13	606046871001	01-FEB-2006	0.4558	0.4346	1.0000	0.9694	mg/L	-3	10	

CONTINUING CALIBRATION SUMMARY FOR 187020 IC Water
Curtis & Tompkins Laboratories

Analyte: Sulfate

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC01	P	606208172007	24-MAY-2006 12:40	606046871001	01-FEB-2006	0.1305	0.1286	2.5000	2.5349	mg/L	1	10	
IC01	P	606208172018	24-MAY-2006 18:12	606046871001	01-FEB-2006	0.1305	0.1329	10.000	10.287	mg/L	3	10	
IC01	P	606208172030	24-MAY-2006 21:45	606046871001	01-FEB-2006	0.1305	0.1387	25.000	25.902	mg/L	4	10	
IC01	P	606208172045	25-MAY-2006 02:08	606046871001	01-FEB-2006	0.1305	0.1298	2.5000	2.5571	mg/L	2	10	
IC01	P	606208172059	25-MAY-2006 06:13	606046871001	01-FEB-2006	0.1305	0.1325	10.000	10.256	mg/L	3	10	
IC01	P	606208172070	25-MAY-2006 09:26	606046871001	01-FEB-2006	0.1305	0.1391	25.000	25.967	mg/L	4	10	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 187020 IC Water
EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606208172019 File : 144_19.000 Time : 24-MAY-2006 18:29
Cal : 606046871001 Caldate: 01-FEB-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.006664	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 187020 IC Water
EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606208172031 File : 144_31.000 Time : 24-MAY-2006 22:03
Cal : 606046871001 Caldate: 01-FEB-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.006664	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 187020 IC Water
EPA 300.0

Inst : IC01
Seqnum : 606208172046
Cal : 606046871001
File : 144_46.000
Caldate: 01-FEB-2006
IDF : 1.0
Time : 25-MAY-2006 02:25

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.006664	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 187020 IC Water
EPA 300.0

Inst : IC01
Seqnum : 606208172060 File : 144_60.000 IDF : 1.0
Cal : 606046871001 Caldate: 01-FEB-2006 Time : 25-MAY-2006 06:31

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.006664	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 187020 IC Water
EPA 300.0

Inst : IC01 IDF : 1.0
Seqnum : 606208172071 File : 144_71.000 Time : 25-MAY-2006 09:43
Cal : 606046871001 Caldate: 01-FEB-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.01819	mg/L	
Chloride	ND	0.2000	0.02624	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.006664	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.01819	mg/L	
Sulfate	ND	0.5000	0.04597	mg/L	

SEQUENCE SUMMARY FOR 187020 IC Water
Curtis & Tompkins Laboratories

Sequence: 606046871 Instrument: IC01 Ion Chromatograph Begun: 01-FEB-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	032_1.00	IB				01-FEB-2006 13:11	1.0		25				
002	032_2.00	ICAL	L1			01-FEB-2006 13:28	1.0					1	
003	032_3.00	ICAL	L2			01-FEB-2006 13:46	1.0					1	
004	032_4.00	ICAL	L3			01-FEB-2006 14:03	1.0					1	
005	032_5.00	ICAL	L4			01-FEB-2006 14:21	1.0					1	
006	032_6.00	ICAL	L5			01-FEB-2006 14:38	1.0					1	
007	032_7.00	ICV				01-FEB-2006 14:56	1.0	1	25			2	
008	032_8.00	ICB/MB	QC326493	110078	Water	01-FEB-2006 15:13	1.0	1	25				
009	032_9.00	BS	QC326494	110078	Water	01-FEB-2006 15:31	1.0	1	25			1	
010	032_10.0	BSD	QC326495	110078	Water	01-FEB-2006 15:48	1.0	1	25			1	
011	032_11.0	SAMPLE	184665-001	110078	Water	01-FEB-2006 16:19	1.0	1	25				1:CL=32.4397
012	032_12.0	SAMPLE	184665-005	110078	Water	01-FEB-2006 16:37	1.0	1	25				1:CL=32.5432
013	032_13.0	MSS	184665-006	110078	Water	01-FEB-2006 16:54	1.0	2	25				1:CL=34.9403
014	032_14.0	SAMPLE	184665-007	110078	Water	01-FEB-2006 17:12	1.0		25				
015	032_15.0	SAMPLE	184646-001	110078	Water	01-FEB-2006 17:29	100.0		25				
016	032_16.0	SAMPLE	184646-002	110078	Water	01-FEB-2006 17:47	100.0		25				520
017	032_17.0	SAMPLE	184646-003	110078	Water	01-FEB-2006 18:04	100.0		25				
018	032_18.0	CCV	M	110078		01-FEB-2006 18:22	1.0		25			1	
019	032_19.0	CCB		110078		01-FEB-2006 18:39	1.0		25				
020	032_20.0	SAMPLE	184646-004	110078	Water	01-FEB-2006 18:57	100.0		25				
021	032_21.0	SAMPLE	184606-003	110078	Water	01-FEB-2006 19:14	1.0		25				
022	032_22.0	SAMPLE	184606-006	110078	Water	01-FEB-2006 19:32	1.0	1	25				1:CL=67.2883 3:SO4=258.533
023	032_23.0	X	BLK	110078		01-FEB-2006 19:49	1.0						
024	032_24.0	SAMPLE	184665-008	110078	Water	01-FEB-2006 20:07	1.0		25				
025	032_25.0	SAMPLE	184665-009	110078	Water	01-FEB-2006 20:24	1.0	1	25				1:CL=23.2597
026	032_26.0	SAMPLE	184665-001	110078	Water	01-FEB-2006 20:42	2.0		25				
027	032_27.0	SAMPLE	184665-005	110078	Water	01-FEB-2006 20:59	2.0		25				
028	032_28.0	MSS	184665-006	110078	Water	01-FEB-2006 21:17	2.0	1	25				
029	032_29.0	MS	QC326496	110078	Water	01-FEB-2006 21:34	5.0	1	25			1	
030	032_30.0	MSD	QC326497	110078	Water	01-FEB-2006 21:52	5.0	1	25			1	
031	032_31.0	CCV	H	110078		01-FEB-2006 22:10	1.0	1	25			1	

Stds used: 1=S1888 2=S1085

SEQUENCE SUMMARY FOR 187020 IC Water
Curtis & Tompkins Laboratories

Sequence: 606046871 Instrument: IC01 Ion Chromatograph Begun: 01-FEB-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
032	032_32.0	CCB		110078		01-FEB-2006 22:27	1.0	1		25				
033	032_33.0	X	CCV	110078		01-FEB-2006 22:45	1.0						1	
034	032_34.0	X	CCB	110078		01-FEB-2006 23:02	1.0							
035	032_35.0	SAMPLE	184665-009	110078	Water	01-FEB-2006 23:20	2.0			25				
036	032_36.0	SAMPLE	184669-006	110078	Water	01-FEB-2006 23:37	100.0			25				
037	032_37.0	SAMPLE	184669-006	110078	Water	01-FEB-2006 23:55	10.0	1		25			1:NO3N=9.88433	
038	032_38.0	X	BLK	110078		02-FEB-2006 00:12	1.0							
039	032_39.0	SAMPLE	184606-006	110078	Water	02-FEB-2006 00:30	2.0			25			2:SO4=142.830	
040	032_40.0	X	BLK	110078		02-FEB-2006 00:47	1.0							
041	032_41.0	SAMPLE	184646-001	110078	Water	02-FEB-2006 01:05	1.0			25				
042	032_42.0	X	BLK	110078		02-FEB-2006 01:22	1.0							
043	032_43.0	SAMPLE	184646-002	110078	Water	02-FEB-2006 01:40	1.0			25				
044	032_44.0	X	BLK	110078		02-FEB-2006 01:57	1.0							
045	032_45.0	SAMPLE	184646-003	110078	Water	02-FEB-2006 02:15	1.0			25				
046	032_46.0	X	BLK	110078		02-FEB-2006 02:32	1.0							
047	032_47.0	SAMPLE	184646-004	110078	Water	02-FEB-2006 02:50	1.0			25				521
048	032_48.0	X	BLK	110078		02-FEB-2006 03:07	1.0							
049	032_49.0	X	BLK	110078		02-FEB-2006 03:25	1.0							
050	032_50.0	X	CCV	110078		02-FEB-2006 03:42	1.0						1	
051	032_51.0	X	CCB	110078		02-FEB-2006 04:00	1.0							
052	032_52.0	CCV	L	110078		02-FEB-2006 04:17	1.0	2		25			1	
053	032_53.0	CCB		110078		02-FEB-2006 04:35	1.0			25				
054	032_54.0	X	SHUTDOWN	110078		02-FEB-2006 04:52	1.0							

Stds used: 1=S1888 2=S1085

SEQUENCE SUMMARY FOR 187020 IC Water
Curtis & Tompkins Laboratories

Sequence: 606208172 Instrument: IC01 Ion Chromatograph Begun: 24-MAY-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
007	144_7.00	CCV	L	113810		24-MAY-2006 12:40	1.0	1	25			1	
008	144_8.00	CCB/MB	QC341518	113810	Water	24-MAY-2006 12:57	1.0		25				
009	144_9.00	BS	QC341519	113810	Water	24-MAY-2006 13:15	1.0		25			1	
010	144_10.0	BSD	QC341520	113810	Water	24-MAY-2006 13:32	1.0		25			1	
011	144_11.0	SAMPLE	186992-001	113810	Water	24-MAY-2006 15:51	1.0	1	25				2:SO4=93.0240
012	144_12.0	SAMPLE	186992-001	113810	Water	24-MAY-2006 16:10	2.0		25				1:CL=25.4964
013	144_13.0	SAMPLE	187020-001	113810	Water	24-MAY-2006 16:39	1.0	1	25				1:CL=77.9262
014	144_14.0	SAMPLE	187020-002	113810	Water	24-MAY-2006 16:56	1.0	2	25				2:CL=75.4102
015	144_15.0	SAMPLE	187020-003	113810	Water	24-MAY-2006 17:14	1.0	2	25				2:SO4=87.9564
016	144_16.0	SAMPLE	187020-004	113810	Water	24-MAY-2006 17:31	1.0		25				
017	144_17.0	SAMPLE	187020-005	113810	Water	24-MAY-2006 17:49	1.0	1	25				1:CL=42.4678
018	144_18.0	CCV	M	113810		24-MAY-2006 18:12	1.0		25			1	
019	144_19.0	CCB		113810		24-MAY-2006 18:29	1.0	1	25				
020	144_20.0	?LCS		113810		24-MAY-2006 18:47	1.0						
021	144_21.0	?MB		113810		24-MAY-2006 19:04	1.0						
022	144_22.0	SAMPLE	187020-006	113810	Water	24-MAY-2006 19:25	1.0	1	25				1:CL=42.5200
023	144_23.0	SAMPLE	187020-007	113810	Water	24-MAY-2006 19:43	1.0	2	25				2:SO4=68.9987
024	144_24.0	SAMPLE	187020-008	113810	Water	24-MAY-2006 20:00	1.0	2	25				2:SO4=70.0677
025	144_25.0	SAMPLE	187020-009	113810	Water	24-MAY-2006 20:18	1.0	3	25				3:CL=139.488
026	144_26.0	SAMPLE	187020-010	113810	Water	24-MAY-2006 20:35	1.0	3	25				3:CL=139.243
027	144_27.0	MSS	187020-012	113810	Water	24-MAY-2006 20:53	1.0	2	25				1:CL=80.0620
028	144_28.0	SAMPLE	187020-013	113810	Water	24-MAY-2006 21:10	1.0	1	25				1:CL=112.426
029	144_29.0	SAMPLE	187020-014	113810	Water	24-MAY-2006 21:28	1.0	2	25				2:CL=163.936
030	144_30.0	CCV	H	113810		24-MAY-2006 21:45	1.0	1	25			1	
031	144_31.0	CCB		113810		24-MAY-2006 22:03	1.0	1	25				
032	144_32.0	X	CCV	113810		24-MAY-2006 22:20	1.0					1	
033	144_33.0	X	CCB	113810		24-MAY-2006 22:38	1.0						
034	144_34.0	MS	QC341521	113810	Water	24-MAY-2006 22:55	10.0		25			1	
035	144_35.0	MSD	QC341522	113810	Water	24-MAY-2006 23:13	10.0		25			1	
036	144_36.0	SAMPLE	187020-015	113810	Water	24-MAY-2006 23:30	1.0	2	25				2:SO4=118.041
037	144_37.0	SAMPLE	187020-017	113810	Water	24-MAY-2006 23:48	1.0	2	25				2:SO4=91.6175

Stds used: 1=S3313

SEQUENCE SUMMARY FOR 187020 IC Water
Curtis & Tompkins Laboratories

Sequence: 606208172 Instrument: IC01 Ion Chromatograph Begun: 24-MAY-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
038	144_38.0	SAMPLE	187020-018	113810	Water	25-MAY-2006 00:05	1.0	3		25				3:SO4=196.448
039	144_39.0	SAMPLE	187020-019	113810	Water	25-MAY-2006 00:23	1.0	2		25				2:SO4=112.923
040	144_40.0	SAMPLE	187020-020	113810	Water	25-MAY-2006 00:40	1.0	3		25				3:SO4=123.733
041	144_41.0	X	BLK	113810		25-MAY-2006 00:58	1.0							
042	144_42.0	SAMPLE	187020-009	113810	Water	25-MAY-2006 01:15	25.0			25				
043	144_43.0	SAMPLE	187020-010	113810	Water	25-MAY-2006 01:33	25.0			25				
044	144_44.0	SAMPLE	187020-015	113810	Water	25-MAY-2006 01:50	25.0			25				
045	144_45.0	CCV	L	113810		25-MAY-2006 02:08	1.0			25			1	
046	144_46.0	CCB		113810		25-MAY-2006 02:25	1.0			25				
047	144_47.0	X	CCV	113810		25-MAY-2006 02:43	1.0						1	
048	144_48.0	X	CCB	113810		25-MAY-2006 03:00	1.0							
049	144_49.0	SAMPLE	187020-017	113810	Water	25-MAY-2006 03:18	10.0			25				
050	144_50.0	SAMPLE	187020-018	113810	Water	25-MAY-2006 03:35	10.0			25				
051	144_51.0	SAMPLE	187020-019	113810	Water	25-MAY-2006 03:53	25.0			25				
052	144_52.0	SAMPLE	187020-020	113810	Water	25-MAY-2006 04:10	10.0			25				
053	144_53.0	SAMPLE	187020-014	113810	Water	25-MAY-2006 04:28	25.0			25				
054	144_54.0	SAMPLE	187020-001	113810	Water	25-MAY-2006 04:45	25.0			25				
055	144_55.0	SAMPLE	187020-002	113810	Water	25-MAY-2006 05:03	25.0			25				
056	144_56.0	SAMPLE	187020-003	113810	Water	25-MAY-2006 05:21	10.0			25				
057	144_57.0	SAMPLE	187020-005	113810	Water	25-MAY-2006 05:38	10.0			25				
058	144_58.0	SAMPLE	187020-006	113810	Water	25-MAY-2006 05:56	10.0			25				
059	144_59.0	CCV	M	113810		25-MAY-2006 06:13	1.0			25			1	
060	144_60.0	CCB		113810		25-MAY-2006 06:31	1.0			25				
061	144_61.0	X	CCV	113810		25-MAY-2006 06:48	1.0						1	
062	144_62.0	X	CCB	113810		25-MAY-2006 07:06	1.0							
063	144_63.0	SAMPLE	187020-007	113810	Water	25-MAY-2006 07:23	10.0			25				
064	144_64.0	SAMPLE	187020-008	113810	Water	25-MAY-2006 07:41	10.0			25				
065	144_65.0	MSS	187020-012	113810	Water	25-MAY-2006 07:58	10.0	1		25				
066	144_66.0	SAMPLE	187020-013	113810	Water	25-MAY-2006 08:16	25.0			25				
067	144_67.0	SAMPLE	187016-006	113810	Water	25-MAY-2006 08:33	100.0			25				
068	144_68.0	SAMPLE	187016-006	113810	Water	25-MAY-2006 08:51	10.0	1		25				1:NO3N=17.9738

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Stds used: 1=S3313

SEQUENCE SUMMARY FOR 187020 IC Water
Curtis & Tompkins Laboratories

Sequence: 606208172 Instrument: IC01 Ion Chromatograph Begun: 24-MAY-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
069	144_69.0	X	BLK	113810		25-MAY-2006 09:08	1.0							
070	144_70.0	CCV	H	113810		25-MAY-2006 09:26	1.0			25			1	
071	144_71.0	CCB		113810		25-MAY-2006 09:43	1.0	1		25				
072	144_72.0	X	CCV	113810		25-MAY-2006 10:01	1.0						1	
073	144_73.0	X	CCB	113810		25-MAY-2006 10:18	1.0							
074	144_74.0	X	SHUTDOWN	113810		25-MAY-2006 10:36	1.0							

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Stds used: 1=S3313

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187020 IC Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	CL	NO2N	NO3N	SO4
187020-001	IC01	05/24/06 16:39	1.0	+		+	+	+
187020-001	IC01	05/25/06 04:45	25.0		+			
187020-002	IC01	05/24/06 16:56	1.0	+		+	+	
187020-002	IC01	05/25/06 05:03	25.0		+			+
187020-003	IC01	05/24/06 17:14	1.0	+		+	+	
187020-003	IC01	05/25/06 05:21	10.0		+			+
187020-004	IC01	05/24/06 17:31	1.0	+	+	+	+	+
187020-005	IC01	05/24/06 17:49	1.0	+		+	+	+
187020-005	IC01	05/25/06 05:38	10.0		+			
187020-006	IC01	05/24/06 19:25	1.0	+		+	+	+
187020-006	IC01	05/25/06 05:56	10.0		+			
187020-007	IC01	05/24/06 19:43	1.0	+		+	+	
187020-007	IC01	05/25/06 07:23	10.0		+			+
187020-008	IC01	05/24/06 20:00	1.0	+		+	+	
187020-008	IC01	05/25/06 07:41	10.0		+			+
187020-009	IC01	05/24/06 20:18	1.0	+		+		
187020-009	IC01	05/25/06 01:15	25.0		+		+	+
187020-010	IC01	05/24/06 20:35	1.0	+		+		
187020-010	IC01	05/25/06 01:33	25.0		+		+	+
187020-012	IC01	05/24/06 20:53	1.0	+		+	+	+
187020-012	IC01	05/25/06 07:58	10.0		+			
187020-013	IC01	05/24/06 21:10	1.0	+		+	+	+
187020-013	IC01	05/25/06 08:16	25.0		+			
187020-014	IC01	05/24/06 21:28	1.0	+		+	+	
187020-014	IC01	05/25/06 04:28	25.0		+			+
187020-015	IC01	05/24/06 23:30	1.0	+		+	+	
187020-015	IC01	05/25/06 01:50	25.0		+			+
187020-017	IC01	05/24/06 23:48	1.0	+		+	+	
187020-017	IC01	05/25/06 03:18	10.0		+			+
187020-018	IC01	05/25/06 00:05	1.0	+		+		
187020-018	IC01	05/25/06 03:35	10.0		+		+	+

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187020 IC Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	CL	NO2N	NO3N	SO4	
187020-019	IC01	05/25/06 00:23	1.0	+		+	+		
187020-019	IC01	05/25/06 03:53	25.0		+			+	
187020-020	IC01	05/25/06 00:40	1.0	+		+			
187020-020	IC01	05/25/06 04:10	10.0		+		+	+	
QC341518	IC01	05/24/06 12:57	1.0	+	+	+	+	+	
QC341519	IC01	05/24/06 13:15	1.0	+	+	+	+	+	
QC341520	IC01	05/24/06 13:32	1.0	+	+	+	+	+	
QC341521	IC01	05/24/06 22:55	10.0	+	+	+	+	+	
QC341522	IC01	05/24/06 23:13	10.0	+	+	+	+	+	

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 113810
Date Started: 24-MAY-2006
Batched by : Micah Smith

Analysis : N/A
Bgroup : IC
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
186992-001			ENSR Consulting &	Water	NITRATE, SULFATE	30-MAY-2006
187016-006			Acme Fill Corp.	Water	NITRATE, NITRITE	06-JUN-2006
187020-001			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	06-JUN-2006
187020-002			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	06-JUN-2006
187020-003			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	06-JUN-2006
187020-004			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	06-JUN-2006
187020-005			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	06-JUN-2006
187020-006			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	06-JUN-2006
187020-007			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	06-JUN-2006
187020-008			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	06-JUN-2006
187020-009			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	06-JUN-2006
187020-010			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	06-JUN-2006
187020-012			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	06-JUN-2006
187020-013			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	06-JUN-2006
187020-014			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	06-JUN-2006
187020-015			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	06-JUN-2006
187020-017			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	06-JUN-2006
187020-018			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	06-JUN-2006
187020-019			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	06-JUN-2006
187020-020			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	06-JUN-2006
QC341518	BLANK			Water		
QC341519	BS			Water		
QC341520	BSD			Water		
QC341521	MS	of 187020-012		Water		
QC341522	MSD	of 187020-012		Water		

Curtis & Tompkins, Ltd. **Water Prep Log** Ion Chromatography

Analysis: ☑ Anions EPA 300 / EPA 9056
☐ Perchlorate (ClO_4) EPA 314
☐ Cr6+ EPA 7199

Batch#: 113810
Date Started: 5/24/06
Prep Chemist: MRS

BK 2305
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	Sample #	Conductivity	Estimated Dilution Factor	Filters Used	Comments
1	186992-001 F	0.85	1X / 2X	S	
2	MS ~~186~~ 187016-006 A	N/A	100X / 10X	P, AG, NA, S	comp 1ml of each bottle -002A, -003A, -004A, -005A,
3	187020-001 F	1.29	1X 25X	S	
4	-002	0.93	25X		
5	-003	0.69	10X		
6	-004	0.42			
7	-005	0.83	10X		
8	-006	0.77			
9	-007	0.87			
10	-008	0.87			
11	-009 E	1.05	25X		
12	-010 E	1.06	25X		
13	-012 F	0.65	10X		MSS
14	-013 C	0.96	25X		
15	-014 C	1.82			
16	-015 C	1.54			
17	-017 E	0.80	10X		
18	-018 B	0.85	10X		
19	-019	0.95	25X		
20	-020	0.86	10X		
	Blank QC341518	N/A	1X	N/A	
	BS QC341519				
	BSD QC341520				
	MS QC341521 F		10X	S	
	MSD QC341522 F		10X	S	

		Mfg & Lot # / Time / Program	Initials / Date
Eluent Reagent ID		100X MRS 4/17/06	MRS 5/24/06
BS/BSD Spiked with	0.2 mL of :	S3313	
MS/MSD Spiked with	0.1 mL of :	S3313	
Filters Used:	Ag: OnGuard II Ag	050622-1-AG	
	Na: OnGuard II Na	050413-1-Na	
	P: OnGuard II P	050425-1-P	
	RP: OnGuard II RP	N/A	
	S: 0.20um/0.45um	~~0~~ MRS 5/24/06 Accodisc lot# A1053937G	

MRS 5/24/06
Extraction Chemist / Date

Continued from page 528
Continued on page

CP 5/25/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 300.0 Water
As of 06/19/06

Analyte	Units	IC01	IC03
Fluoride	mg/L	0.018	0.023
Chloride	mg/L	0.026	0.032
Nitrogen, Nitrite	mg/L	0.0067	0.012
Bromide	mg/L	0.058	0.028
Nitrogen, Nitrate	mg/L	0.018	0.0088
Orthophosphate (as P)	mg/L	0.045	0.037
Sulfate	mg/L	0.046	0.079

Curtis & Tompkins, Ltd.

Sulfide

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 376.2
Analyte:	Sulfide	Batch#:	113926
Matrix:	Water	Sampled:	05/23/06
Units:	mg/L	Received:	05/24/06
Diln Fac:	1.000	Analyzed:	05/30/06

Field ID	Type	Lab ID	Result	RL
600GW101	SAMPLE	187020-001	0.14	0.04
600GW105	SAMPLE	187020-002	ND	0.04
600GW106	SAMPLE	187020-003	0.07	0.04
600GW108	SAMPLE	187020-004	0.07	0.04
610GW101	SAMPLE	187020-005	ND	0.04
610GW102	SAMPLE	187020-006	ND	0.04
610GW103	SAMPLE	187020-007	0.05	0.04
DUP0523061A	SAMPLE	187020-008	0.08	0.04
	BLANK	QC341984	ND	0.04

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Sulfide

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 376.2
Analyte:	Sulfide	Diln Fac:	1.000
Field ID:	600GW108	Batch#:	113926
MSS Lab ID:	187020-004	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	mg/L	Analyzed:	05/30/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC341985		0.5328	0.4938	93	75-125		
MS	QC341986	0.06910	0.5328	0.6976	118	75-125		
MSD	QC341987		0.5328	0.6541	110	75-125	6	20

RPD= Relative Percent Difference

Analysis:	**SULFIDE**	Matrix:	Water
Method:	**EPA 376.2**	Batch:	**113926**
Instrument:	HP UV-VIS Spectrometer	Prep Date:	**5/30/2006**
Wavelength:	626 nm	Analysis Date:	**5/30/2006**
SOP#:	sulfide_376_rv 4.doc	Analyst:	REB

INITIAL CALIBRATION DATA Calibration Date: 11/15/05

Conc (mg/L)	Absorb	RF
0.0000	0.0001	
0.0233	0.0090	0.3863
0.0466	0.0156	0.3348
0.1862	0.0555	0.2981
0.3725	0.1650	0.4430
0.7450	0.3293	0.4420
1.3040	0.5687	0.4361
1.6760	0.7467	0.4455

Correlation Coefficient (r):	0.9994
Avg Rf:	0.3980
%RSD:	15.1

Note: Average Rf used to calculate sample results.

CONTINUING CALIBRATION DATA

	Absorb	Conc (mg/L)	True (mg/L)	Recovery	CV Limits
ICV	0.1965	0.4938	0.5328	93%	90 - 110%
ICB	0.0036	0.0090	0.0000		
CCV	0.1986	0.4990	0.5328	94%	90 - 110%
CCB	0.0101	0.0254	0.0000		
CCV	0.1964	0.4935	0.5328	93%	90 - 110%
CCB	0.0024	0.0060	0.0000		
CCV	0.1956	0.4915	0.5328	92%	90 - 110%
CCB	-0.0214	-0.0538	0.0000		

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Analysis: **SULFIDE**
Method: **EPA 376.2**
Instrument: HP UV-VIS Spectrometer
Wavelength: 626 nm
Matrix: Water

Batch: **113926**
Prep Date: **5/30/2006**
Analysis Date: **5/30/2006**
Analyst: REB

SAMPLE & BATCH QC DATA

Sample ID	Sample Vol (mL)	D.F.	Sample Absorb	Color Blk Absorb	**Report** mg/L	Reporting Limit (mg/L)	Vol Spike Added (mL)	Std Conc. (mg/L)	Spiked @ (mg/L)	**% Rec**	**% RPD**
MB	7.5000	1.0000	0.0036		**ND**	0.040					
LCS	7.5000	1.0000	0.1965		**0.49377**	0.040	0.0500	79.9200	0.5328	**93**	
187020-04	7.5000	1.0000	0.0275		**0.06910**	0.040					
187020-04M	7.5000	1.0000	0.2776		**0.69756**	0.040	0.0500	79.9200	0.5328	**118**	
187020-04M	7.5000	1.0000	0.2603		**0.65409**	0.040	0.0500	79.9200	0.5328	**110**	**6**
187020-01D	7.5000	1.0000	0.0569		**0.14298**	0.040					
187020-02D	7.5000	1.0000	-0.0159		**ND**	0.040					
187020-03D	7.5000	1.0000	0.0296		**0.07438**	0.040					
187020-04D	7.5000	1.0000	0.0275		**0.06910**	0.040					
187020-05D	7.5000	1.0000	-0.0004		**ND**	0.040					
187020-06D	7.5000	1.0000	0.0135		**ND**	0.040					
187020-07D	7.5000	1.0000	0.0190		**0.04774**	0.040					
187020-08D	7.5000	1.0000	0.0326		**0.08192**	0.040					
187017-01D	7.5000	1.0000	0.0163	0.0276	**ND**	0.040					
187017-02D	7.5000	1.0000	0.0167	0.0305	**ND**	0.040					
187017-03D	7.5000	1.0000	0.1432	0.1054	**0.09498**	0.040					
187017-04D	7.5000	1.0000	0.2386	0.1802	**0.14675**	0.040					
187017-07D	7.5000	1.0000	0.0297		**0.07463**	0.040					

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	20	42 - 121

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Reviewed by/ Date: Jan 5/31/06

---> Quantitation Results Report <---

Date : 05-28-2006
Time : 13:22:38
Operator : Not Entered

le Name : Data not stored yet

ımple Name : sulfide
olvent Name : CAL11-15-05
onc Units : mg/L
.1. Factor : 1.00

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

MPLE #	Sample Name	Wavelength	Func. Res.	Concentration
1	ICB/MB	Analytical	-0.0036	0.00000
2	ICV/LCS	Analytical	+0.1965	0.44519
3	187020-01D	Analytical	+0.0569	0.12885
4	187020-02D	Analytical	-0.0159	0.00000
5	187020-03D	Analytical	+0.0296	0.06700
6	187020-04D	Analytical	+0.0275	0.06240
7	187020-04MS	Analytical	+0.2776	0.62905
8	187020-04MSD	Analytical	+0.2603	0.58967
9	187020-05D	Analytical	-0.0004	0.00000
10	187020-06D	Analytical	+0.0135	0.03063
11	CCV	Analytical	+0.1986	0.45007
12	CCB	Analytical	+0.0101	0.02296
13	187020-07D	Analytical	+0.0190	0.04297
14	187020-08D	Analytical	+0.0326	0.07385
15	CCV	Analytical	+0.1964	0.44492
16	CCB	Analytical	+0.0024	0.00550
17	187017-01D	Analytical	+0.0163	0.03689
18	187017-02D	Analytical	+0.0167	0.03775
19	187017-03D	Analytical	+0.1432	0.32453
20	187017-04D	Analytical	+0.2386	0.54072

---> **Standard Calibration Report** <---

Date : 05-28-2006
Time : 13:23:38
Operator : Not Entered

File Name : C:\UV\DATA\ss1105.STD

Sample Name : sulfide
Solvent Name : CAL11-15-05
Conc Units : mg/L

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

Analytical Function Concentration = +2.266E+00 * Absorbance

STD #	Concentration	Absorbance	% Error
1	0.00000	0.0001	*****
2	0.37250	0.1650	-0.366 %
3	0.74500	0.3293	-0.135 %
4	1.30400	0.5687	+1.198 %
5	1.67600	0.7467	-0.933 %
6	0.02330	0.0090	+14.422 %
7	0.04660	0.0156	+31.758 %
8	0.18620	0.0555	+48.042 %

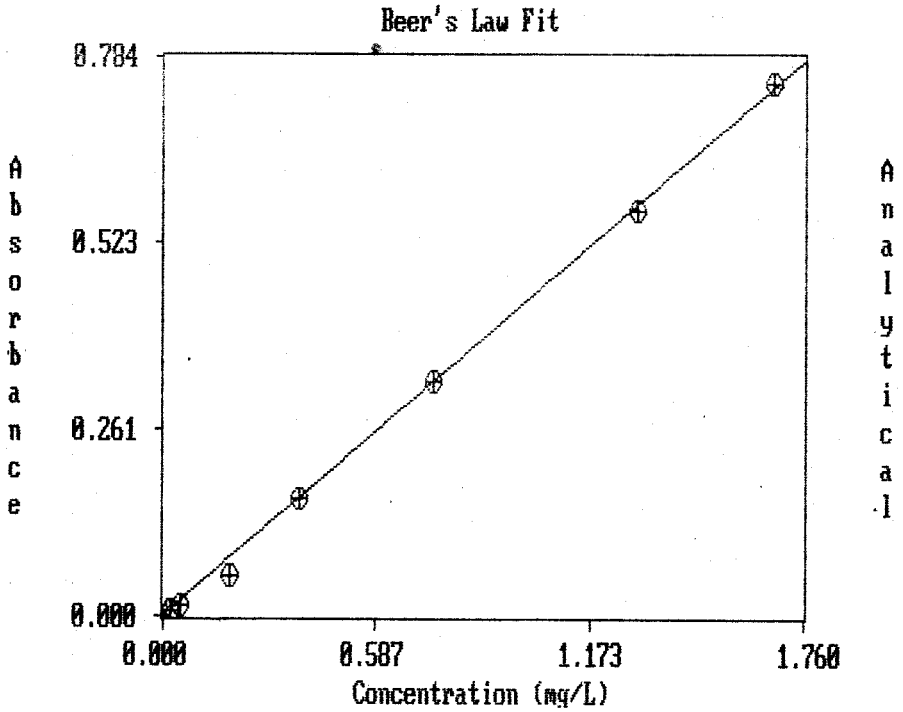
---> Standard Calibration Report <---

Date : 05-28-2006
Time : 13:23:39
Operator : Not Entered

File Name : C:\UV\DATA\ss1105.STD

Sample Name : sulfide
Solvent Name : CAL11-15-05
Conc Units : mg/L

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds



21	187017-07D	Analytical	+0.0297	0.06735
22	187017-01CB	Analytical	+0.0276	0.06265
23	197017-03CB	Analytical	+0.1054	0.23886
24	187017-04CB	Analytical	+0.1802	0.40837
25	187017-07CB	Analytical	-0.0215	0.00000
26	187017-02CB	Analytical	+0.0305	0.06901
27	CCV	Analytical	+0.1956	0.44312
28	CCB	Analytical	-0.0214	0.00000

Sulfide

Batch 113926

Sample	vol	Final vol	ABS	
ICB/MB	7.5	7.5	-0.0036	S=std
ICV/LCS			0.1965	.3503 gr
187020-01D			0.0569	of SS292
187020-02D			-0.0159	into 50ml DI
187020-03D			0.0296	
187020-04D			0.0275	1.0ml S=
-MS			0.2776	5ml .023164
-MSD			0.2603	2.8ml S_2O_3 .02352
187020-05D			-0.0004	= 6.11580-.0658
187020-06D			0.0135	+16000/1ml
CCV			0.1986	
CCB			0.0101	= 799.2 mg/L
187020-07D			0.0190	10ml → 100ml
187020-08D			0.0326	= 79.92 mg/L
CCV			0.1964	.05 → 7.5ml
CCB			0.0024	for ICV &
187017-01D			0.0163	MS/MSD
187017-02D			0.0167	
187017-03D			0.1432	
187017-04D			0.2386	
187017-07D			0.0297	
187017-01 color D/K			0.0276	
-03			0.1054	
-04			0.1802	
-07			-0.0215	
-02			0.0305	
CCV			0.1956	
CCB			-0.0214	

Continued on Page

Read and Understood By

Signed	Date	Signed	Date
RED	053006	Dm	5-31-06

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 113926
Date Started: 30-MAY-2006
Batched by : Robert E. Butler

Analysis : SULFIDE
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
187017-001			MWH	Water	SULFIDE	31-MAY-2006
187017-002			MWH	Water	SULFIDE	31-MAY-2006
187017-003			MWH	Water	SULFIDE	31-MAY-2006
187017-004			MWH	Water	SULFIDE	31-MAY-2006
187017-007			MWH	Water	SULFIDE	31-MAY-2006
187020-001			Treadwell & Rollo	Water	SULFIDE	06-JUN-2006
187020-002			Treadwell & Rollo	Water	SULFIDE	06-JUN-2006
187020-003			Treadwell & Rollo	Water	SULFIDE	06-JUN-2006
187020-004			Treadwell & Rollo	Water	SULFIDE	06-JUN-2006
187020-005			Treadwell & Rollo	Water	SULFIDE	06-JUN-2006
187020-006			Treadwell & Rollo	Water	SULFIDE	06-JUN-2006
187020-007			Treadwell & Rollo	Water	SULFIDE	06-JUN-2006
187020-008			Treadwell & Rollo	Water	SULFIDE	06-JUN-2006
QC341984	BLANK			Water	SULFIDE	
QC341985	LCS			Water	SULFIDE	
QC341986	MS	of 187020-004		Water	SULFIDE	
QC341987	MSD	of 187020-004		Water	SULFIDE	

Analysis:	Sulfide	Analysis Date:	4/14/2005
Method:	EPA 376.2	Analyst:	DM
Instrument:	HP UV/Vis		
Wavelength:	626 nm		

Instrument Calibrated to report sample results in concentration: mg/L

Concentration:	0.1098
Units:	mg/L
1	0.100
2	0.104
3	0.105
4	0.096
5	0.096
6	0.095
7	0.092
Average:	0.098 ug/L
Std Deviation:	0.004691
Student T:	3.143

(Student-T value for 7 replicates = 3.143, for 8 replicates = 2.998)

MDL = Student T * StdDev:	**0.0147** mg/L
Reporting Limit:	0.04 mg/L
Status:	PASS >1/3 RL

Curtis & Tompkins, Ltd.

Total Dissolved Solids (TDS)

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Sampled:	05/23/06
Matrix:	Water	Received:	05/24/06
Units:	mg/L	Analyzed:	05/26/06
Batch#:	113859		

Field ID	Type	Lab ID	Result	RL	Diln Fac
600GW101	SAMPLE	187020-001	880	50	5.000
600GW105	SAMPLE	187020-002	640	50	5.000
600GW106	SAMPLE	187020-003	380	50	5.000
600GW108	SAMPLE	187020-004	280	50	5.000
610GW101	SAMPLE	187020-005	590	50	5.000
610GW102	SAMPLE	187020-006	570	50	5.000
610GW103	SAMPLE	187020-007	520	50	5.000
DUP0523061A	SAMPLE	187020-008	490	50	5.000
BB3GW100	SAMPLE	187020-009	640	50	5.000
DUP0523063A	SAMPLE	187020-010	660	50	5.000
BB3SW104	SAMPLE	187020-012	370	50	5.000
BB3SW102	SAMPLE	187020-013	470	50	5.000
LF6GW103	SAMPLE	187020-017	470	50	5.000
LF6GW104	SAMPLE	187020-018	700	50	5.000
LF6GW105	SAMPLE	187020-019	750	50	5.000
LF6GW106	SAMPLE	187020-020	480	50	5.000
	BLANK	QC341701	ND	10	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Dissolved Solids (TDS)

Lab #:	187020	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Batch#:	113859
Field ID:	600GW101	Sampled:	05/23/06
MSS Lab ID:	187020-001	Received:	05/24/06
Matrix:	Water	Analyzed:	05/26/06
Units:	mg/L		

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim	Diln Fac
BS	QC341702		100.0	102.0		102	79-121			1.000
BSD	QC341703		100.0	98.00		98	79-121	4	20	1.000
SDUP	QC341704	880.0		920.0	50.00			4	20	5.000

RL= Reporting Limit
RPD= Relative Percent Difference

Analysis:	**Total Dissolved Solids**	Analysis Date:	**26-May-06**
Method:	**EPA160.1** / SMWW 2540c	Batch #:	**113859**
Matrix:	Water	Analyst:	RS
SOP#:	tds_rv 9.doc		

BATCH QC DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	Report (mg/L)	Reporting Limit (mg/L)	Spike Std Conc (mg/L)	Spike Vol.Used (mL)	Spiking Level (mg/L)	Recovery,%	RPD,%
MB	50	1	50.3976	50.3977	0.0001	ND	10					
BS	50	1	49.3834	49.3885	0.0051	102.0	10	1,000	5	100	**102**	
BSD	50	1	53.0697	53.0746	0.0049	98.0	10	1,000	5	100	**98**	**4.00**
187020-001	10	5	47.6691	47.6779	0.0088	880.0	50					
SDUP	10	5	24.4515	24.4607	0.0092	920.0	50					**4.44**

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	79 - 121
MS/ MSD	20	69 - 131

SAMPLE DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	Report (mg/L)	Reporting Limit (mg/L)
187020-002	10	5	25.4889	25.4953	0.0064	640.0	50
187020-003	10	5	27.1935	27.1973	0.0038	380.0	50
187020-004	10	5	27.6060	27.6088	0.0028	280.0	50
187020-005	10	5	27.8913	27.8972	0.0059	590.0	50
187020-006	10	5	26.9162	26.9219	0.0057	570.0	50
187020-007	10	5	25.9881	25.9933	0.0052	520.0	50
187020-008	10	5	24.7247	24.7296	0.0049	490.0	50
187020-009	10	5	27.4450	27.4514	0.0064	640.0	50
187020-010	10	5	29.0726	29.0792	0.0066	660.0	50
187020-012	10	5	26.1330	26.1367	0.0037	370.0	50
187020-013	10	5	26.0394	26.0441	0.0047	470.0	50
187020-017	10	5	24.9154	24.9201	0.0047	470.0	50
187020-018	10	5	26.4586	26.4656	0.0070	700.0	50
187020-019	10	5	24.4192	24.4267	0.0075	750.0	50
187020-020	10	5	27.4218	27.4266	0.0048	480.0	50
187041-001	10	5	25.5092	25.5295	0.0203	2,030.0	50
187096-005	10	5	27.6577	27.6591	0.0014	140.0	50
187096-006	10	5	27.4844	27.4853	0.0009	90.0	50
187096-007	10	51	26.2517	26.2526	0.0009	90.0	50

Note: Because the regulatory holding time is based on the prep date, the analysis date referenced above is the prep date.

Reviewed by/ Date: TCM 5/30/06

543

TDS (Total Dissolved Solids)
EPA 160.1 / SMWW 2540C

Curtis & Tompkins, Ltd.

LIMS Batch #: 113859

Prep Date: 5-26-06
Prep Time: 13:30

Benchbook#: **BK2254**
Page: **26**

Filter Mfg/ Lot#: G1848457
Spike WS#: S2182

Spike WS Conc (mg/L): 1,000
Spike Vol Added (mL): 5

	In	Out	In-2	Out-2	In-3	Out-3
Date:	5-26-06	5-27-06	5-27-06	5-27-06		
Time:	19:00	15:15	17:00	18:00		
Temp (C):	90°C	180°C	180°C	180°C		

	Sample # / Letter	EC Value (µS/cm)	Sample Vol. Filtered (mL)	Dish ID	Dish Wt (g)	1st Dry Wt.(g)	2nd Dry Wt (g)*	3rd Dry Wt (g)*
1	MB		50	SIR	50.3976	50.3977	50.3980	
	BS			BSS	49.3834	49.3885	49.3885	
	BSD			IL2	53.0697	53.0742	53.0744	
	187020-001F	1365	10	LMS	47.6691	47.6779	47.6785	
5	SdWP -001			LSM	24.4515	24.4607	24.4609	
	-002	954		78	25.4889	25.4953	25.4950	
	-003	681		RRS	27.1935	27.1973	27.1978	
	-004	388		LM	27.6060	27.6088	27.6087	
	-005	850		MM	27.8913	27.8972	27.8970	
10	-006	784		14	26.9162	26.9219	26.9220	
	-007	892		KS	25.9881	25.9933	25.9931	
	-008	887		KF	24.7247	24.7296	24.7296	
	-009	1041		MK	27.4450	27.4514	27.4515	
	-010	1,058		LMX	29.0726	29.0792	29.0796	
15	-012	639		LL	26.1330	26.1367	26.1371	
	-013	972		EFB	26.0394	26.0441	26.0445	
	-017	789		ETH	24.9154	24.9201	24.9204	
	-018	857		KF	26.4586	26.4656	26.4660	
	-019	969		SH	24.4192	24.4267	24.4270	
20	-020	862		KK	27.4218	27.4266	27.4269	
	187041-001 (Cn)	3,900		SJ	25.5092	25.5295	25.5299	
	187096-005	126.10	10	AMT	27.6577	27.6591	27.6593	
	-006	145.10		FJB	27.4844	27.4853	27.4855	
	-007	142.90		13	26.2517	26.2526	26.2527	
							RS 5/25/06	

* Constant weight must be within 0.0005 from previous reading.

RSCiffa 5-26-06
Analyst / Date

Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 113859
Date Started: 26-MAY-2006
Batched by : Radia Shiffa

Analysis : TDS
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
187020-001			Treadwell & Rollo	Water	TDS	06-JUN-2006
187020-002			Treadwell & Rollo	Water	TDS	06-JUN-2006
187020-003			Treadwell & Rollo	Water	TDS	06-JUN-2006
187020-004			Treadwell & Rollo	Water	TDS	06-JUN-2006
187020-005			Treadwell & Rollo	Water	TDS	06-JUN-2006
187020-006			Treadwell & Rollo	Water	TDS	06-JUN-2006
187020-007			Treadwell & Rollo	Water	TDS	06-JUN-2006
187020-008			Treadwell & Rollo	Water	TDS	06-JUN-2006
187020-009			Treadwell & Rollo	Water	TDS	06-JUN-2006
187020-010			Treadwell & Rollo	Water	TDS	06-JUN-2006
187020-012			Treadwell & Rollo	Water	TDS	06-JUN-2006
187020-013			Treadwell & Rollo	Water	TDS	06-JUN-2006
187020-017			Treadwell & Rollo	Water	TDS	06-JUN-2006
187020-018			Treadwell & Rollo	Water	TDS	06-JUN-2006
187020-019			Treadwell & Rollo	Water	TDS	06-JUN-2006
187020-020			Treadwell & Rollo	Water	TDS	06-JUN-2006
187041-001			Green Environment,	Water	TDS	30-MAY-2006
187096-005			U.S. Army Corps of	Water	TDS	08-JUN-2006
187096-006			U.S. Army Corps of	Water	TDS	08-JUN-2006
187096-007			U.S. Army Corps of	Water	TDS	08-JUN-2006
QC341701	BLANK			Water	TDS	
QC341702	BS			Water	TDS	
QC341703	BSD			Water	TDS	
QC341704	SDUP	of 187020-001		Water	TDS	

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 187065

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.04.51
Location: Presidio

Sample ID	Lab ID
1065PZ1A	187065-001
1065PZ2A	187065-002
1065PZ4A	187065-003
1065MW101	187065-004
1065MW102	187065-005
231GW09	187065-006
1221GW104	187065-007
FM14EX07GW102	187065-008
1213GW101	187065-009
FM14EX07GW101	187065-010
DUP-05242006	187065-011
1349MW100	187065-012
DUP0524063A	187065-013
1065PZ1B	187065-014
1065PZ5AR	187065-015
1065MW9A	187065-016
DUP0524063B	187065-017
TB0524063A	187065-018

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 6/22/06
Operations Manager

Signature: _____ Date: 6/22/06
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**187065**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**05/25/06**
Samples Received:	**05/25/06**

This hardcopy data package contains sample and QC results for eighteen water samples, requested for the above referenced project on 05/25/06. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):
No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

Pesticides (EPA 8081A):
High response was observed for methoxychlor in the ICV analyzed 05/16/06 02:35; average ICV drift met method requirements, and this analyte was not detected at or above the RL in the associated samples. Low response was observed for beta-BHC in the CCV analyzed 06/01/06 12:08; average CCV drift met method requirements. Low response was observed for delta-BHC in the CCV analyzed 05/30/06 22:38; average CCV drift met method requirements. Low surrogate recoveries were observed for TCMX in 1349MW100 (lab # 187065-012) and DUP0524063A (lab # 187065-013); the corresponding decachlorobiphenyl surrogate recoveries were within limits. No other analytical problems were encountered.

Polynuclear Aromatics by HPLC (EPA 8310):
Low recoveries were observed for benzo(a)pyrene in the MS/MSD for batch 113988; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Metals (EPA 6010B, EPA 6020, and EPA 7470A):
Responses exceeding the instrument's linear range were observed for sodium in the MS/MSD of 1065PZ1A (lab # 187065-001). No other analytical problems were encountered.

Ion Chromatography (EPA 300.0):
No analytical problems were encountered.

Alkalinity (EPA 310.1):
No analytical problems were encountered.

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**187065**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**05/25/06**
Samples Received:	**05/25/06**

Sulfide (EPA 376.2):

Low recoveries were observed for sulfide in the MS/MSD of DUP0524063B (lab # 187065-017); the LCS was within limits. No other analytical problems were encountered.

Total Dissolved Solids (TDS) (EPA 160.1):

No analytical problems were encountered.

Chain of Custody

Treadwell&Rollo

Environmental and Geotechnical Consultants

555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

187065

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2149
Page: ___ of ___

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): P. Cornish BTS
Recorder (signature required): [signature]
Sent to Laboratory (Name): C&T

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260)	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other) (15)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	MTBE	Total Sulfide	BTEX, MTBE				COMMENTS / NOTES
-1	1065PZ1A	5/24/06	1212			4		6		1	1	2	X	X	X	X	X		X		X		X	X					Low Volume
-2	1065PZ2A		1305			4		3		1	1	2	X	X	X	X	X		X		X		X	X					No VOC
-3	1065PZ4A		940			4		3		1	1	2	X	X	X	X	X		X		X		X	X					
-4	1065MW101		1030			4		6		1	1	2	X	X	X	X	X		X		X		X	X	X				
-5	1065MW102		1125			4		6		1	1	2	X	X	X	X	X		X		X		X	X	X				

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (**Other** - (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn))

RELINQUISHED BY: [signature]	DATE:	RECEIVED BY: [signature]	DATE: 5/25/06
PRINT NAME: FIRM:	TIME: 1130	PRINT NAME: AARON GRENIER FIRM: CT	TIME: 1130
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

White Copy - Original **Yellow Copy** - Laboratory **Pink Copy** - Field

Treadwell&Rollo
Environmental and Geotechnical Consultants
555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

187065

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2150
Page: 1 of 1

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTS / D. Raynal
Recorder (signature required): [signature]
Sent to Laboratory (Name):

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) MTBE	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	Dissolved Metals (22)	Total Sulfide	BTEX / MTBE				COMMENTS / NOTES
-6	231GW09	5/24/06	945			Y		6		1	1	2	X	X	X	X	X		X		X			X					
-7	1221GW104		1105			Y				1		1				DR	X						X						
-8	FM14EX07GW102		1200			X		3			3	2	X	X	X							X			X				No VOCs, MTBE ~~No VOCs / MTBE~~ DR
-9	1213GW101		1330			X		6		1		4	X	X	X	X	X					X	X						
-10	FM14EX07GW101		1520			X		3			3	1	X	X	X							X			X				
-11	DUP-05242006		—			X		6		1	4	2	X	X	X	X	X					X	X						

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY: [signature]	DATE:	RECEIVED BY: [signature]	DATE: 5/25/06
PRINT NAME: FIRM:	TIME: 1130	PRINT NAME: AARON GRENTER FIRM: CFT	TIME: 1130
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

White Copy - Original **Yellow Copy** - Laboratory **Pink Copy** - Field

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Environmental and Geotechnical Consultants
555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

187065

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2151
Page: ___ of ___

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTS / SAN DIEGO
Recorder (signature required):
Sent to Laboratory (Name): CTT

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Water	Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) MTBE	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other) 15	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	BTEX, MTBE, Total Sulfide	Dissolved Metals 23				COMMENTS / NOTES
-12	1349MW100	5/24/06	1300					6		1		6	X	X	X	X	X	X			X	X		X				
-13	DUP052406 3A		1305					6		1		6	X	X	X	X	X	X			X	X		X				
-14	1065PZ1B		1020					6		1	1	2	X	X	X	X	X		X		X							
-15	1065PZ5AR		1155					3		1	1	2	X	X	X		X		X		X		X	X				
-16	1065MW9A		1500					3		1	1	2	X	X	X		X		X		X		X	X				
-17	DUP052406 3B		1505					3		1	1	2	X	X	X		X		X		X		X	X				
-18	TB052406 3A		—					2																				HOLD

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (**Other -**)

RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE: 5/25/06
PRINT NAME: FIRM:	TIME:	PRINT NAME: AARON CRANIER FIRM: CTT	TIME: 1130
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

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SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 187065 Date Received: 5/25/06 Number of Coolers: 5
Client: Treadwell Project: Presidio

A. Preliminary Examination Phase
Date Opened: 5/25/06 By (print): Peter P. (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number:
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? ~~5/24/06~~ 1 on lid Seal date: 5/24/06 Seal name: C/S
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: wet Temperature: 4°, 5°, 3.5°, 4°, 3°

B. Login Phase
Date Logged In: 5/25/06 By (print): Peter P. (sign) [signature]

1. Describe type of packing in cooler: Zip Loc bags
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? By whom? Date:

Additional Comments:
Sample TB0524063A added to COC, logged in on Hold.
Changed Container count to reflect actual # of Bottles Received.

TOTAL VOLATILE HYDROCARBONS/

BTXE

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1065PZ1A	Batch#:	113842
Lab ID:	187065-001	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Analyzed:	05/27/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	160 Y	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	112	65-135
Bromofluorobenzene (FID)	104	65-135

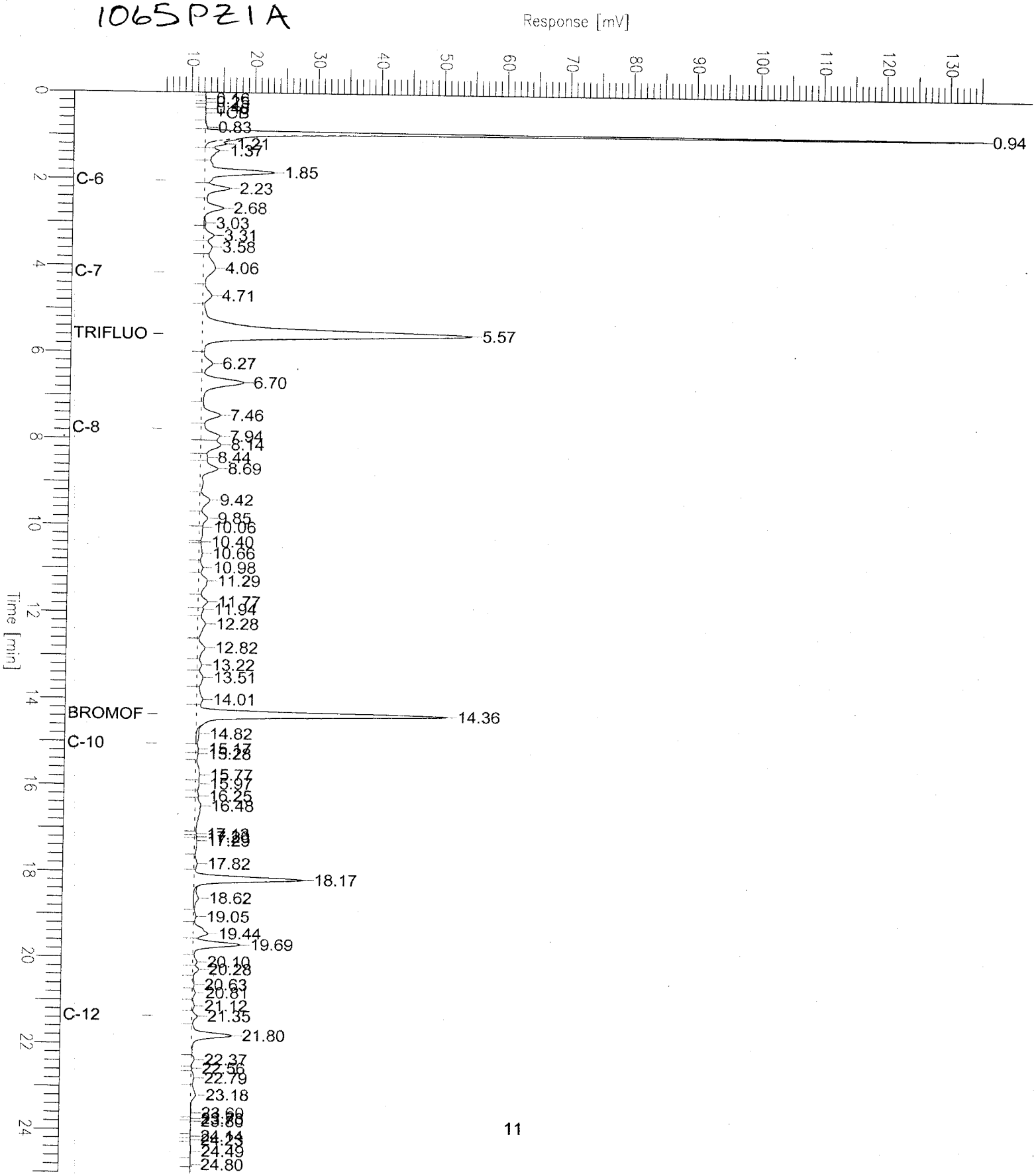
Y= Sample exhibits chromatographic pattern which does not resemble standard
RL= Reporting Limit

Chromatogram

Sample Name : 187065-001,113842,tvh only
FileName : G:\GC05\DATA\146G034.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 25.00 min
Scale Factor: 1.0 Plot Offset: 6 mV

Sample #: b1.3
Date : 5/27/06 07:24 AM
Time of Injection: 5/27/06 06:58 AM
Low Point : 5.98 mV High Point : 135.12 mV
Plot Scale: 129.1 mV

1065PZ1A



Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1065PZ2A	Batch#:	113842
Lab ID:	187065-002	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Analyzed:	05/26/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	7.1	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	93	65-135	EPA 8015B
Bromofluorobenzene (FID)	98	65-135	EPA 8015B
Trifluorotoluene (PID)	83	65-135	EPA 8021B
Bromofluorobenzene (PID)	93	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1065PZ4A	Batch#:	113842
Lab ID:	187065-003	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Analyzed:	05/26/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	102	65-135	EPA 8015B
Bromofluorobenzene (FID)	106	65-135	EPA 8015B
Trifluorotoluene (PID)	99	65-135	EPA 8021B
Bromofluorobenzene (PID)	103	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1065MW101	Batch#:	113842
Lab ID:	187065-004	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Analyzed:	05/27/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	96	65-135
Bromofluorobenzene (FID)	100	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1065MW102	Batch#:	113842
Lab ID:	187065-005	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Analyzed:	05/27/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	65-135
Bromofluorobenzene (FID)	104	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	231GW09	Batch#:	113842
Lab ID:	187065-006	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Analyzed:	05/27/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	93	65-135
Bromofluorobenzene (FID)	100	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	FM14EX07GW102	Batch#:	113842
Lab ID:	187065-008	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Analyzed:	05/26/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	90	65-135	EPA 8015B
Bromofluorobenzene (FID)	92	65-135	EPA 8015B
Trifluorotoluene (PID)	87	65-135	EPA 8021B
Bromofluorobenzene (PID)	93	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1213GW101	Batch#:	113842
Lab ID:	187065-009	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Analyzed:	05/27/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	68 L Y	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	106	65-135
Bromofluorobenzene (FID)	101	65-135

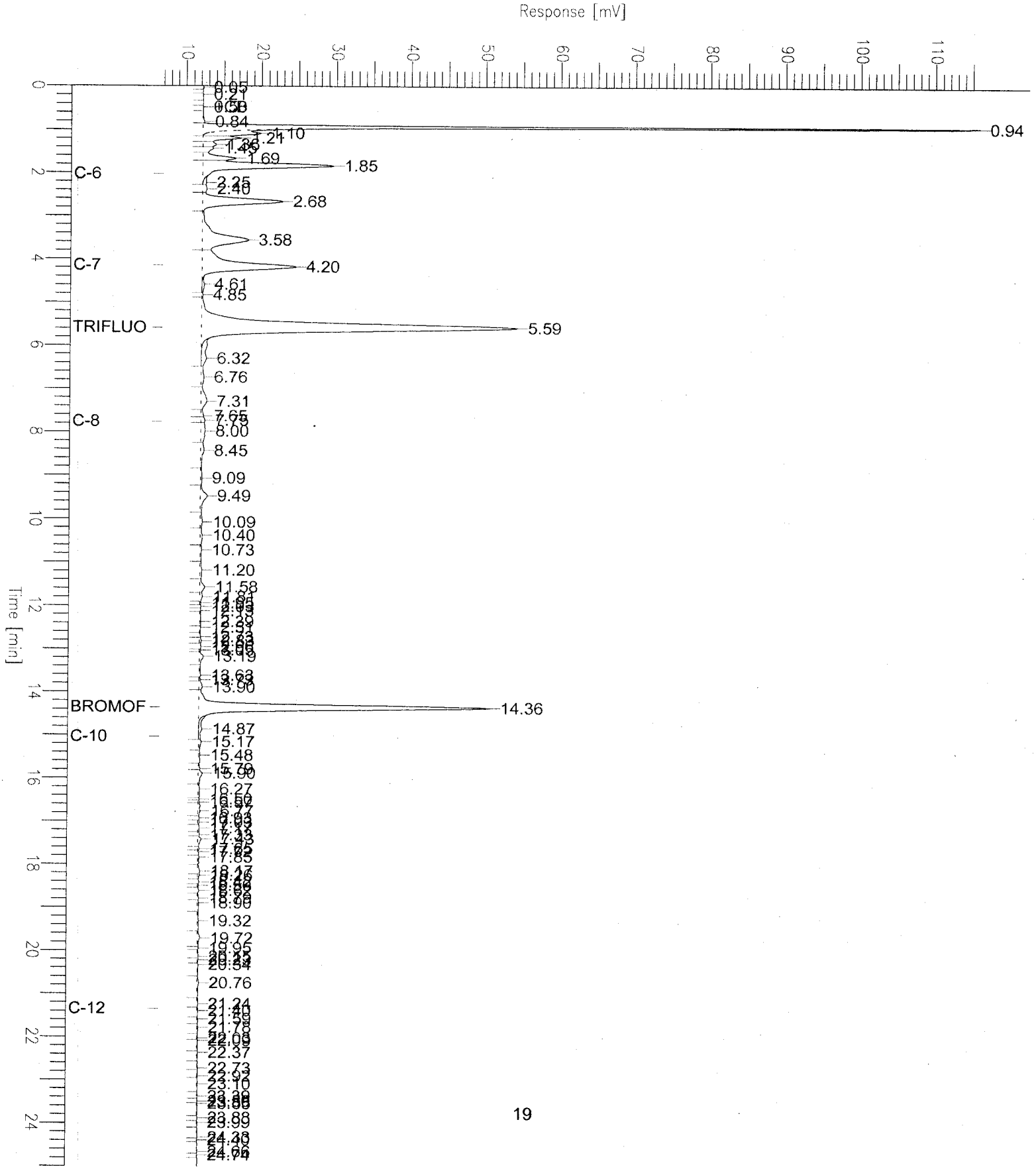
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
RL= Reporting Limit

1213GW101

Chromatogram

Sample Name : 187065-009,113842,tvh only
FileName : G:\GC05\DATA\146G038.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 25.00 min
Scale Factor: 1.0 Plot Offset: 7 mV

Sample #: b1.3 Page 1 of 1
Date : 5/27/06 09:31 AM
Time of Injection: 5/27/06 09:05 AM
Low Point : 6.89 mV High Point : 115.91 mV
Plot Scale: 109.0 mV



Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	FM14EX07GW101	Batch#:	113842
Lab ID:	187065-010	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Analyzed:	05/26/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	101	65-135	EPA 8015B
Bromofluorobenzene (FID)	104	65-135	EPA 8015B
Trifluorotoluene (PID)	100	65-135	EPA 8021B
Bromofluorobenzene (PID)	106	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	DUP-05242006	Batch#:	113841
Lab ID:	187065-011	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Analyzed:	05/26/06
Diln Fac:	1.000		

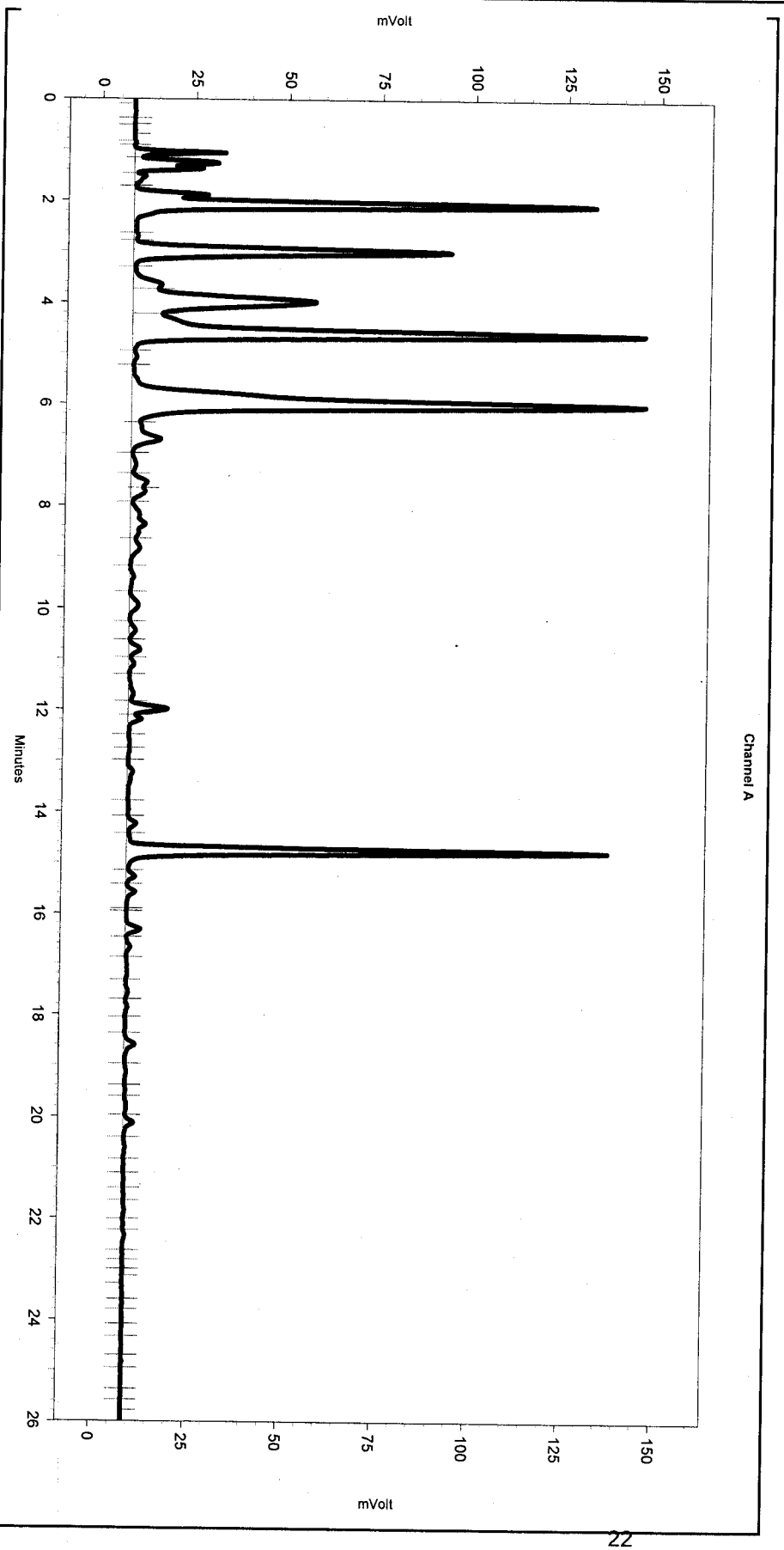
Analyte	Result	RL
Gasoline C7-C12	140 L Y	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	122	65-135
Bromofluorobenzene (FID)	92	65-135

L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
RL= Reporting Limit

Sample Name: **187065-011,113841,tvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\146_005**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\146.seq**
Instrument: GC04 Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe137.met

Software Version 3.1.7
Run Date: 5/26/2006 3:13:00 PM
Analysis Date: 5/30/2006 10:10:24 AM
Sample Amount: 5



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.822	0	0

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\146_005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

DUP-05242006

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1349MW100	Batch#:	113841
Lab ID:	187065-012	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Analyzed:	05/26/06
Diln Fac:	1.000		

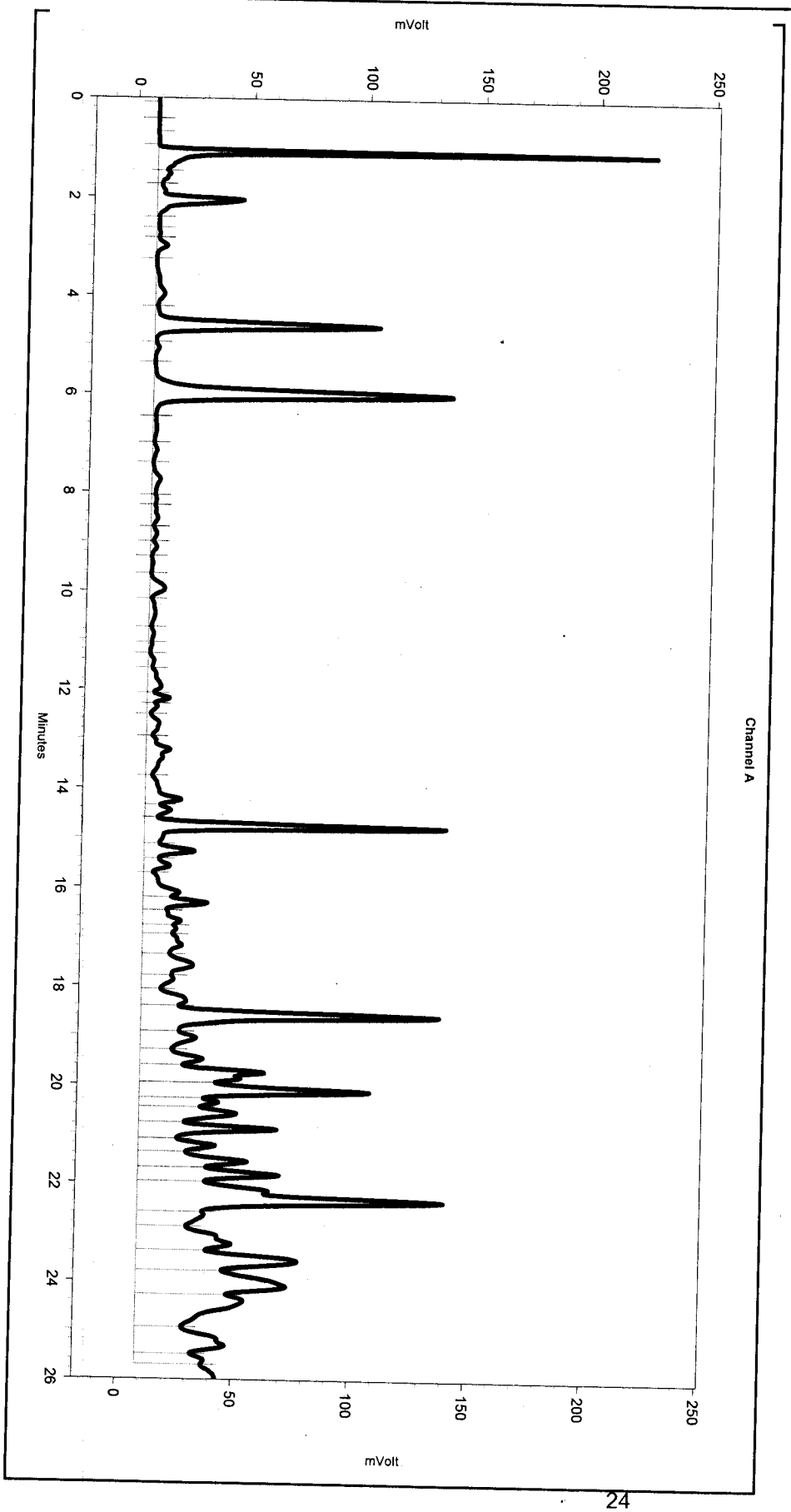
Analyte	Result	RL
Gasoline C7-C12	690 H Y	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	97	65-135
Bromofluorobenzene (FID)	107	65-135

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
RL= Reporting Limit

Sample Name: **187065-012,113841,tvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\146_006**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\146.seq**
Instrument: GC04 Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe137.met

Software Version 3.1.7
Run Date: 5/26/2006 3:49:44 PM
Analysis Date: 5/30/2006 10:10:28 AM
Sample Amount: 5



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---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.822	0	0

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\146_006

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	25.913	0

1349 MW100

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	DUP0524063A	Batch#:	113841
Lab ID:	187065-013	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Analyzed:	05/26/06
Diln Fac:	1.000		

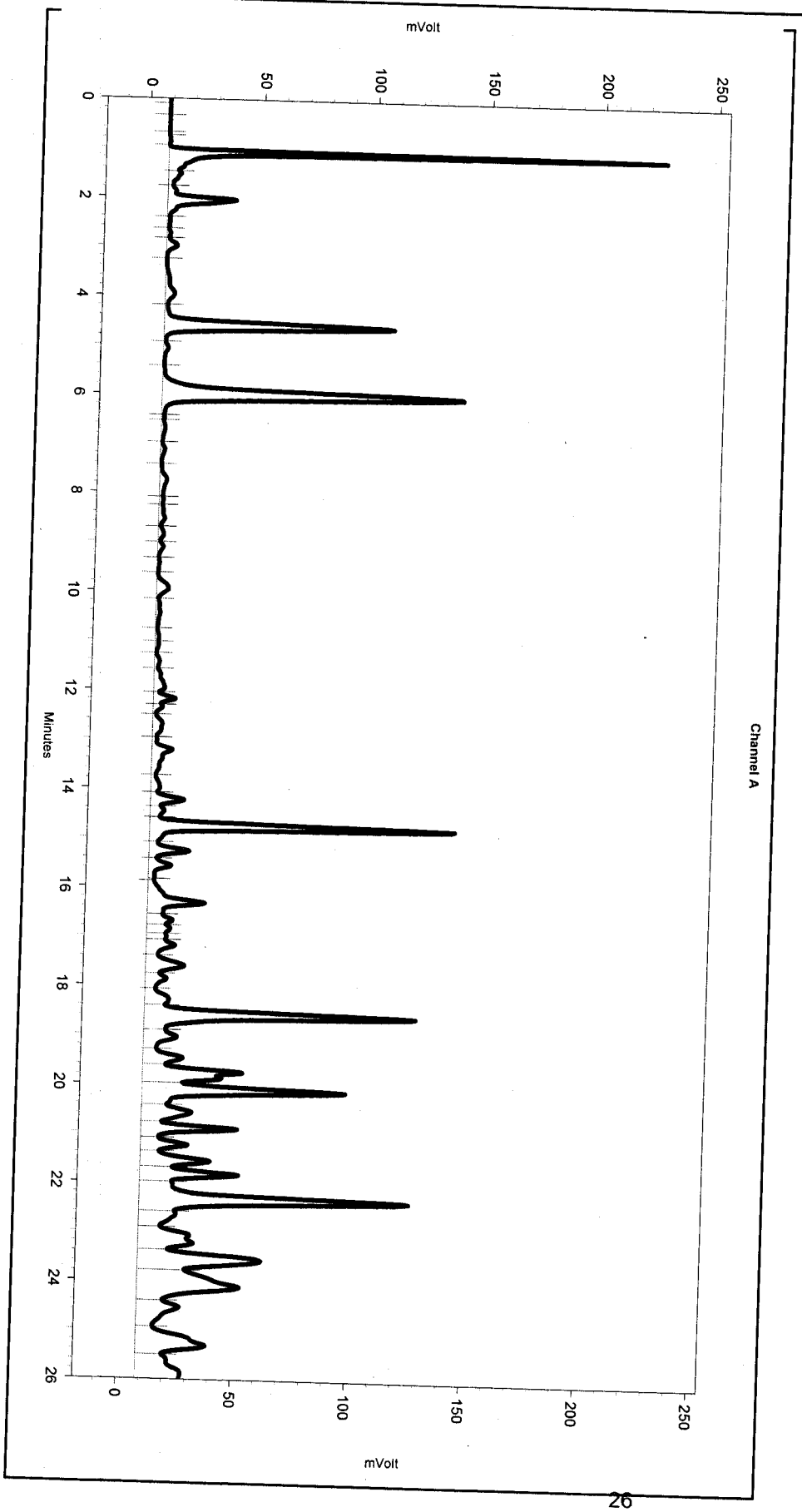
Analyte	Result	RL
Gasoline C7-C12	490 H Y	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	98	65-135
Bromofluorobenzene (FID)	104	65-135

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
RL= Reporting Limit

Sample Name: **187065-013,113841,tvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\146_007**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\146.seq**
Instrument: GC04 Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe137.met

Software Version 3.1.7
Run Date: 5/26/2006 4:26:24 PM
Analysis Date: 5/30/2006 10:10:32 AM
Sample Amount: 5



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events
==========

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.822	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\146_007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.013	0

DUP0524063A

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1065PZ1B	Batch#:	113842
Lab ID:	187065-014	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Analyzed:	05/27/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	91	65-135
Bromofluorobenzene (FID)	95	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1065PZ5AR	Batch#:	113842
Lab ID:	187065-015	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Analyzed:	05/26/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	3.5 C	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	95	65-135	EPA 8015B
Bromofluorobenzene (FID)	98	65-135	EPA 8015B
Trifluorotoluene (PID)	95	65-135	EPA 8021B
Bromofluorobenzene (PID)	99	65-135	EPA 8021B

C= Presence confirmed, but RPD between columns exceeds 40%
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1065MW9A	Batch#:	113842
Lab ID:	187065-016	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Analyzed:	05/26/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	95	65-135	EPA 8015B
Bromofluorobenzene (FID)	98	65-135	EPA 8015B
Trifluorotoluene (PID)	95	65-135	EPA 8021B
Bromofluorobenzene (PID)	99	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	DUP0524063B	Batch#:	113842
Lab ID:	187065-017	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Analyzed:	05/26/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	98	65-135	EPA 8015B
Bromofluorobenzene (FID)	100	65-135	EPA 8015B
Trifluorotoluene (PID)	98	65-135	EPA 8021B
Bromofluorobenzene (PID)	104	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC341628	Batch#:	113841
Matrix:	Water	Analyzed:	05/26/06
Units:	ug/L		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	Result	%REC	Limits
Trifluorotoluene (FID)		98	65-135
Bromofluorobenzene (FID)		97	65-135
Trifluorotoluene (PID)	NA		
Bromofluorobenzene (PID)	NA		

NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

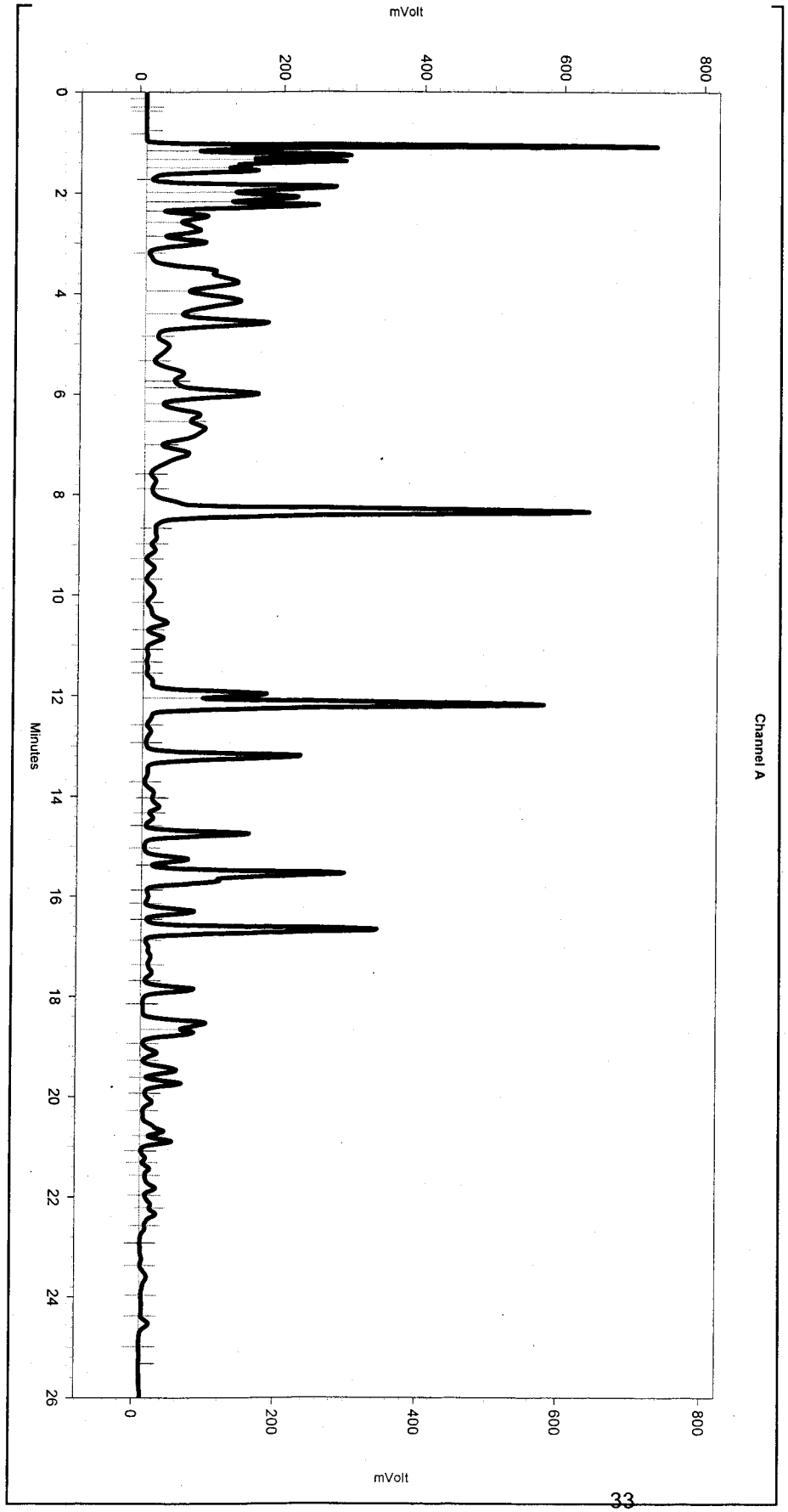
Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC341631	Batch#:	113842
Matrix:	Water	Analyzed:	05/26/06
Units:	ug/L		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	83	65-135	EPA 8015B
Bromofluorobenzene (FID)	84	65-135	EPA 8015B
Trifluorotoluene (PID)	80	65-135	EPA 8021B
Bromofluorobenzene (PID)	88	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Sample Name: **ccv/lcs,qc341630,113841,s3282,5/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\146_003** Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\146.seq** Instrument: GC04 Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe137.met	Software Version 3.1.7 Run Date: 5/26/2006 11:46:59 AM Analysis Date: 5/30/2006 10:10:15 AM Sample Amount: 5



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No items selected for this section

---< A >---

No items selected for this section

Integration Events
==========

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.822	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\146_003

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.861	0	0

Gasoline

Gasoline

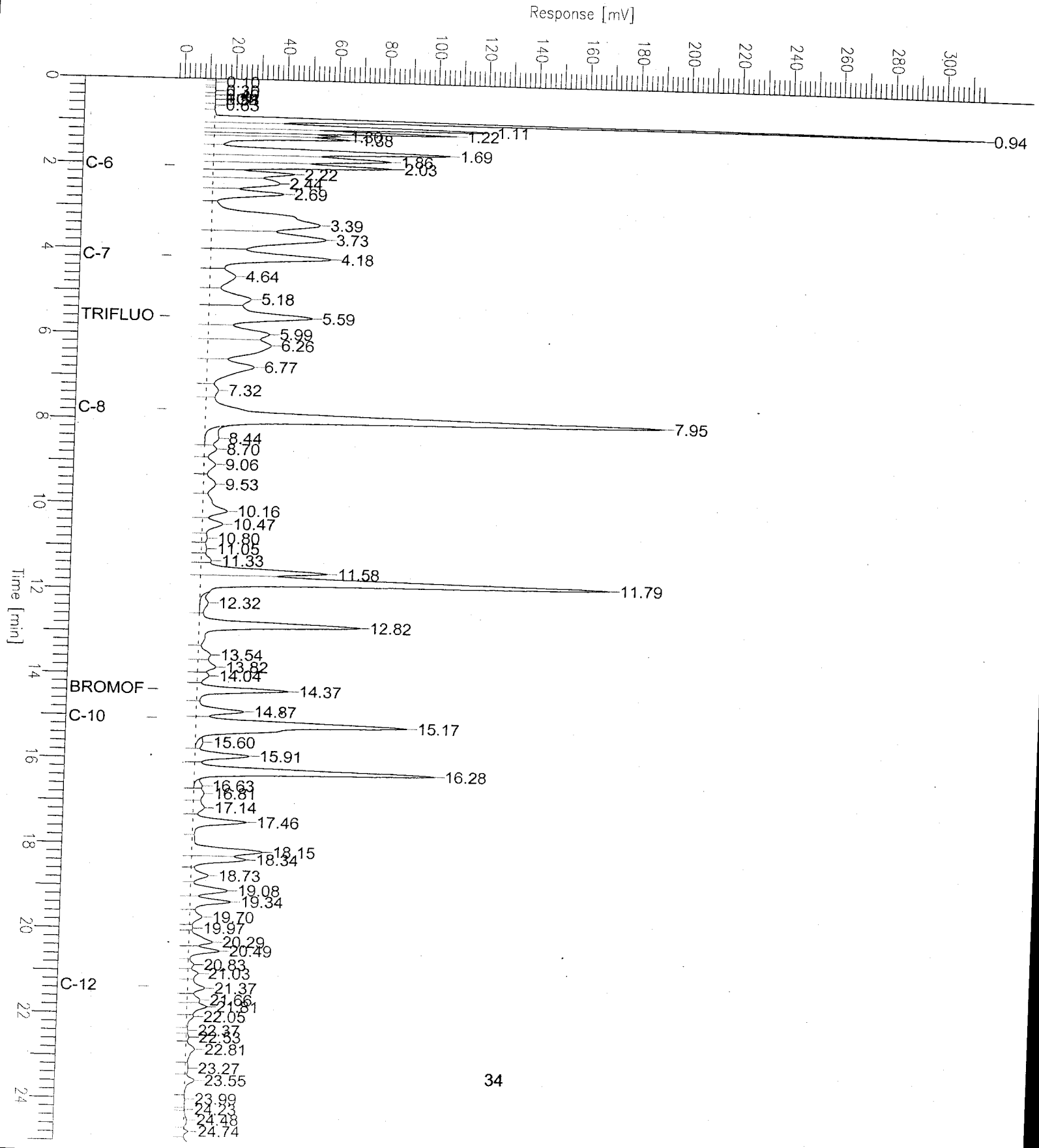
Chromatogram

Sample Name : ccv/lcs,qc341633,113842,s3282,5/5000
FileName : G:\GC05\DATA\146G002.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor: 1.0

End Time : 25.00 min
Plot Offset: -3 mV

Sample #:
Date : 5/26/06 11:54 AM
Time of Injection: 5/26/06 11:29 AM
Low Point : -3.05 mV
Plot Scale: 317.3 mV

High Point : 314.23 mV



Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC341630	Batch#:	113841
Matrix:	Water	Analyzed:	05/26/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	2,095	105	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	118	65-135
Bromofluorobenzene (FID)	112	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8021B
Type:	BS	Diln Fac:	1.000
Lab ID:	QC341632	Batch#:	113842
Matrix:	Water	Analyzed:	05/26/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
MTBE	20.00	18.83	94	65-135
Benzene	20.00	19.61	98	65-135
Toluene	20.00	20.98	105	65-135
Ethylbenzene	20.00	20.56	103	65-135

Surrogate	%REC	Limits
Trifluorotoluene (PID)	92	65-135
Bromofluorobenzene (PID)	99	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8021B
Type:	BSD	Diln Fac:	1.000
Lab ID:	QC341741	Batch#:	113842
Matrix:	Water	Analyzed:	05/27/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	20.00	17.84	89	65-135	5	35
Benzene	20.00	19.75	99	65-135	1	35
Toluene	20.00	20.97	105	65-135	0	35
Ethylbenzene	20.00	19.61	98	65-135	5	35

Surrogate	%REC	Limits
Trifluorotoluene (PID)	101	65-135
Bromofluorobenzene (PID)	108	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC341633	Batch#:	113842
Matrix:	Water	Analyzed:	05/26/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	2,115	106	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	123	65-135
Bromofluorobenzene (FID)	95	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	113841
MSS Lab ID:	187086-001	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Analyzed:	05/26/06
Diln Fac:	1.000		

Type: MS Lab ID: QC341708

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	42.77	2,000	2,036	100	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	114	65-135
Bromofluorobenzene (FID)	108	65-135

Type: MSD Lab ID: QC341709

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,971	96	65-135	3	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	118	65-135
Bromofluorobenzene (FID)	109	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1065PZ2A	Batch#:	113842
MSS Lab ID:	187065-002	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Analyzed:	05/27/06
Diln Fac:	1.000		

Type: MS Lab ID: QC341739

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	17.13	2,000	2,257	112	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	109	65-135
Bromofluorobenzene (FID)	110	65-135

Type: MSD Lab ID: QC341740

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,207	110	65-135	2	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	107	65-135
Bromofluorobenzene (FID)	115	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187065 GCVOA Water: EPA 8015B

Inst : GC04
Calnum : 306196906001
Units : ng

Name : GAS
Date : 16-MAY-2006 19:36
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	136_004	306196906004	tvh 1	16-MAY-2006 19:36	S3460 (1000X), S3248 (5000X)
L2	136_005	306196906005	tvh 2	16-MAY-2006 20:12	S3459 (1000X), S3248 (5000X)
L3	136_006	306196906006	tvh 3	16-MAY-2006 20:49	S3458 (1000X), S3248 (5000X)
L4	136_007	306196906007	tvh 4	16-MAY-2006 21:26	S3457 (2000X), S3248 (5000X)
L5	136_008	306196906008	tvh 5	16-MAY-2006 22:02	S3457 (1000X), S3248 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	A	3811.7	3496.5	3602.0	3184.8	3241.9	AVRG		2.88E-4		3467.4	7	0.995	20	

41

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

306196906001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 187065 GCVOA Water
EPA 8015B

Inst : GC04
Calnum : 306196906001

Name : GAS
Cal Date: 16-MAY-2006

ICV 306196906010 (136_010 16-MAY-2006) stds: S3323 (1000X), S3248 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	A	3467.4	3546.3	10000	10230	ng	2	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187065 GCVOA Water: EPA 8015B / EPA 8021B

Inst : GC04
Calnum : 306156213001
Units : ng

Name : TFT/BFB
Date : 18-APR-2006 12:47
X Axis : R

Reviewer: CW

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	108_003	306156213003	tft/bfb 1	18-APR-2006 12:47	S2572 (5000X)
L2	108_004	306156213004	tft/bfb 2	18-APR-2006 13:29	S2573 (5000X)
L3	108_006	306156213006	tft/bfb 4	18-APR-2006 15:09	S2575 (5000X)
L4	108_007	306156213007	tft/bfb 5	18-APR-2006 15:58	S2576 (5000X)
L5	108_009	306156213009	tft/bfb 3	19-APR-2006 15:18	S2574 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	3423.4	3050.6	3323.0	3385.0	3547.0	AVRG		2.99E-4		3345.8	6	0.995	20	
Bromofluorobenzene (FID)	A	2299.0	2026.1	2222.5	2224.5	2388.6	AVRG		4.48E-4		2232.1	6	0.995	20	
Trifluorotoluene (PID)	B	3108.4	2845.2	3128.0	3191.9	3225.8	AVRG		3.23E-4		3099.8	5	0.995	20	
Bromofluorobenzene (PID)	B	6677.9	6072.5	6885.7	7017.6	7006.2	AVRG		1.49E-4		6732.0	6	0.995	20	
Trifluorotoluene (PID)	C	569.64	531.73	617.09	639.55	638.70	AVRG		0.00167		599.35	8	0.995	20	
Bromofluorobenzene (PID)	C	1245.7	1164.6	1332.6	1352.7	1365.3	AVRG		7.74E-4		1292.2	7	0.995	20	

43

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

306156213001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187065 GCVOA Water: EPA 8015B

Inst : GC05
Calnum : 316199245001
Units : ng

Name : GAS
Date : 18-MAY-2006 16:47
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	138_006	316199245006	tvh 1	18-MAY-2006 16:47	S3460 (1000X), S3248 (5000X)
L2	138_007	316199245007	tvh 2	18-MAY-2006 17:19	S3459 (1000X), S3248 (5000X)
L3	138_008	316199245008	tvh 3	18-MAY-2006 17:51	S3458 (1000X), S3248 (5000X)
L4	138_009	316199245009	tvh 4	18-MAY-2006 18:23	S3457 (2000X), S3248 (5000X)
L5	138_010	316199245010	tvh 5	18-MAY-2006 18:55	S3457 (1000X), S3248 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	G	1168.4	1143.2	1104.8	1017.7	1031.8	AVRG		9.15E-4		1093.2	6	0.995	20	

44

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

316199245001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 187065 GCVOA Water
EPA 8015B

Inst : GC05
Calnum : 316199245001

Name : GAS
Cal Date: 18-MAY-2006

ICV 316199245014 (138_014 18-MAY-2006) stds: S3323 (1000X), S3248 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	G	1093.2	1144.6	10000	10470	ng	5	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187065 GCVOA Water: EPA 8021B

Inst : GC05
Calnum : 316186669001
Units : ng

Name : MBTXE
Date : 09-MAY-2006 16:13
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	129_003	316186669003	btxe 1	09-MAY-2006 16:13	S2850 (1000X), S3248 (5000X)
L2	129_004	316186669004	mtbe 1	09-MAY-2006 16:46	S2849 (1250X), S3248 (5000X)
L3	129_005	316186669005	btxe 2	09-MAY-2006 17:18	S2849 (500X), S3248 (5000X)
L4	129_006	316186669006	btxe 3	09-MAY-2006 17:50	S2849 (125X), S3248 (5000X)
L5	129_007	316186669007	btxe 4	09-MAY-2006 18:22	S2848 (1000X), S3248 (5000X)
L6	129_008	316186669008	btxe 5	09-MAY-2006 18:54	S2848 (500X), S3248 (5000X)
L7	129_009	316186669009	btxe 6	09-MAY-2006 19:26	S2848 (250X), S3248 (5000X)
L8	129_010	316186669010	mtbe 7	09-MAY-2006 19:58	S2847 (500X), S3248 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
MTBE	H		674.00	750.00	649.81	577.26	550.89	553.71	552.89	AVRG		0.00162		615.51	13	0.995	20	
Benzene	H	1588.0		1480.5	1436.7	1487.1	1449.9	1427.2		AVRG		6.76E-4		1478.2	4	0.995	20	
Toluene	H	1518.0		1373.6	1401.2	1380.5	1328.1	1304.9		AVRG		7.22E-4		1384.4	5	0.995	20	
Ethylbenzene	H	1325.0		1226.3	1225.9	1221.7	1180.2	1160.8		AVRG		8.17E-4		1223.3	5	0.995	20	
m,p-Xylenes	H	1787.0		1689.5	1652.4	1640.3	1545.4	1497.1		AVRG		6.12E-4		1635.3	6	0.995	20	
o-Xylene	H	1240.0		1212.4	1244.9	1226.5	1161.1	1130.8		AVRG		8.32E-4		1202.6	4	0.995	20	
MTBE	I		33.500	43.080	41.450	45.719	47.111	50.549	54.038	AVRG		0.02219		45.064	15	0.995	20	
Benzene	I	121.60		109.20	109.17	132.36	136.60	139.77		AVRG		0.00801		124.78	11	0.995	20	
Toluene	I	132.00		101.72	99.470	121.30	124.80	127.83		AVRG		0.00849		117.85	12	0.995	20	
Ethylbenzene	I	76.584		92.935	92.425	110.69	112.97	116.85		AVRG		0.00996		100.41	16	0.995	20	
m,p-Xylenes	I	113.20		120.32	124.45	144.08	146.40	151.20		AVRG		0.00750		133.27	12	0.995	20	
o-Xylene	I	125.40		100.75	90.170	108.88	111.00	115.70		AVRG		0.00920		108.65	11	0.995	20	

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Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

316186669001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 187065 GCVOA Water
EPA 8021B

Inst : GC05
Calnum : 316186669001

Name : MBTXE
Cal Date: 09-MAY-2006

ICV 316186669013 (129_013 09-MAY-2006) stds: S3079 (1000X), S3248 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
MTBE	H	615.51	520.25	100.0	84.52	ng	-15	15	
Benzene	H	1478.2	1547.7	100.0	104.7	ng	5	15	
Toluene	H	1384.4	1514.6	100.0	109.4	ng	9	15	
Ethylbenzene	H	1223.3	1240.1	100.0	101.4	ng	1	15	
m,p-Xylenes	H	1635.3	1587.3	200.0	194.1	ng	-3	15	
o-Xylene	H	1202.6	1291.7	100.0	107.4	ng	7	15	
MTBE	I	45.064	39.100	100.0	86.77	ng	-13	15	
Benzene	I	124.78	129.01	100.0	103.4	ng	3	15	
Toluene	I	117.85	116.89	100.0	99.18	ng	-1	15	
Ethylbenzene	I	100.41	101.48	100.0	101.1	ng	1	15	
m,p-Xylenes	I	133.27	126.27	200.0	189.5	ng	-5	15	
o-Xylene	I	108.65	95.241	100.0	87.66	ng	-12	15	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187065 GCVOA Water: EPA 8015B / EPA 8021B

Inst : GC05
Calnum : 316186669002
Units : ng

Name : TFT/BFB
Date : 10-MAY-2006 11:15
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	129_015	316186669015	tft/bfb 1	10-MAY-2006 11:15	S3289 (5000X)
L2	129_016	316186669016	tft/bfb 2	10-MAY-2006 12:11	S3290 (5000X)
L3	129_017	316186669017	tft/bfb 3	10-MAY-2006 13:12	S3291 (5000X)
L4	129_018	316186669018	tft/bfb 4	10-MAY-2006 13:45	S3292 (5000X)
L5	129_019	316186669019	tft/bfb 5	10-MAY-2006 14:45	S3293 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	G	1190.1	1148.7	1073.7	1108.4	1076.2	AVRG		8.93E-4		1119.4	4	0.995	20	
Bromofluorobenzene (FID)	G	675.74	683.93	657.19	699.14	688.87	AVRG		0.00147		680.98	2	0.995	20	
Trifluorotoluene (PID)	H	423.80	417.58	405.42	426.43	415.41	AVRG		0.00239		417.73	2	0.995	20	
Bromofluorobenzene (PID)	H	776.27	805.56	789.36	864.10	858.49	AVRG		0.00122		818.75	5	0.995	20	
Trifluorotoluene (PID)	I	28.500	28.564	27.569	30.179	30.811	AVRG		0.03434		29.125	5	0.995	20	
Bromofluorobenzene (PID)	I	57.427	59.706	61.411	68.350	69.319	AVRG		0.01581		63.243	8	0.995	20	

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Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

316186669002

CONTINUING CALIBRATION SUMMARY FOR 187065 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Gasoline C7-C12

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC04	A	306210873003	26-MAY-2006 11:46	306196906001	16-MAY-2006	3467.4	3632.9	10000	10477	ng	5	15	
GC04	A	306210873012	28-MAY-2006 12:17	306196906001	16-MAY-2006	3467.4	3515.7	15000	15209	ng	1	15	
GC05	G	316210897002	26-MAY-2006 11:29	316199245001	18-MAY-2006	1093.2	1156.0	10000	10575	ng	6	15	
GC05	G	316210897014	26-MAY-2006 20:17	316199245001	18-MAY-2006	1093.2	1233.4	15000	16924	ng	13	15	
GC05	G	316210897015	26-MAY-2006 20:49	316199245001	18-MAY-2006	1093.2	1228.9	15000	16862	ng	12	15	
GC05	G	316210897030	27-MAY-2006 04:50	316199245001	18-MAY-2006	1093.2	1209.4	10000.0	11063	ng	11	15	
GC05	G	316210897031	27-MAY-2006 05:22	316199245001	18-MAY-2006	1093.2	1192.5	10000.0	10908	ng	9	15	
GC05	G	316210897040	27-MAY-2006 10:09	316199245001	18-MAY-2006	1093.2	1226.0	5000.0	5607.6	ng	12	15	

CONTINUING CALIBRATION SUMMARY FOR 187065 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: MTBE

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316210897001	26-MAY-2006 10:57	316186669001	09-MAY-2006	615.51	579.50	100.00	94.150	ng	-6	15	
GC05	I	316210897001	26-MAY-2006 10:57	316186669001	09-MAY-2006	45.064	42.720	100.00	94.799	ng	-5	15	
GC05	H	316210897012	26-MAY-2006 19:13	316186669001	09-MAY-2006	615.51	576.93	150.00	140.60	ng	-6	15	
GC05	I	316210897012	26-MAY-2006 19:13	316186669001	09-MAY-2006	45.064	41.982	150.00	139.74	ng	-7	15	
GC05	H	316210897013	26-MAY-2006 19:45	316186669001	09-MAY-2006	615.51	595.36	150.00	145.09	ng	-3	15	
GC05	I	316210897013	26-MAY-2006 19:45	316186669001	09-MAY-2006	45.064	43.671	150.00	145.36	ng	-3	15	
GC05	H	316210897028	27-MAY-2006 03:46	316186669001	09-MAY-2006	615.51	559.04	50.000	45.413	ng	-9	15	
GC05	I	316210897028	27-MAY-2006 03:46	316186669001	09-MAY-2006	45.064	45.720	50.000	50.728	ng	1	15	

CONTINUING CALIBRATION SUMMARY FOR 187065 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Benzene

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316210897001	26-MAY-2006 10:57	316186669001	09-MAY-2006	1478.2	1449.8	100.00	98.074	ng	-2	15	
GC05	I	316210897001	26-MAY-2006 10:57	316186669001	09-MAY-2006	124.78	121.62	100.00	97.467	ng	-3	15	
GC05	H	316210897012	26-MAY-2006 19:13	316186669001	09-MAY-2006	1478.2	1588.7	150.00	161.21	ng	7	15	
GC05	I	316210897012	26-MAY-2006 19:13	316186669001	09-MAY-2006	124.78	127.55	150.00	153.33	ng	2	15	
GC05	H	316210897013	26-MAY-2006 19:45	316186669001	09-MAY-2006	1478.2	1580.3	150.00	160.36	ng	7	15	
GC05	I	316210897013	26-MAY-2006 19:45	316186669001	09-MAY-2006	124.78	126.03	150.00	151.51	ng	1	15	
GC05	H	316210897028	27-MAY-2006 03:46	316186669001	09-MAY-2006	1478.2	1360.8	50.000	46.028	ng	-8	15	
GC05	I	316210897028	27-MAY-2006 03:46	316186669001	09-MAY-2006	124.78	116.91	50.000	46.846	ng	-6	15	

CONTINUING CALIBRATION SUMMARY FOR 187065 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Toluene

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316210897001	26-MAY-2006 10:57	316186669001	09-MAY-2006	1384.4	1452.4	100.00	104.91	ng	5	15	
GC05	I	316210897001	26-MAY-2006 10:57	316186669001	09-MAY-2006	117.85	111.41	100.00	94.533	ng	-5	15	
GC05	H	316210897012	26-MAY-2006 19:13	316186669001	09-MAY-2006	1384.4	1516.9	150.00	164.36	ng	10	15	
GC05	I	316210897012	26-MAY-2006 19:13	316186669001	09-MAY-2006	117.85	114.97	150.00	146.33	ng	-2	15	
GC05	H	316210897013	26-MAY-2006 19:45	316186669001	09-MAY-2006	1384.4	1508.2	150.00	163.41	ng	9	15	
GC05	I	316210897013	26-MAY-2006 19:45	316186669001	09-MAY-2006	117.85	114.84	150.00	146.17	ng	-3	15	
GC05	H	316210897028	27-MAY-2006 03:46	316186669001	09-MAY-2006	1384.4	1427.8	50.000	51.568	ng	3	15	
GC05	I	316210897028	27-MAY-2006 03:46	316186669001	09-MAY-2006	117.85	100.53	50.000	42.651	ng	-15	15	

CONTINUING CALIBRATION SUMMARY FOR 187065 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Ethylbenzene

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316210897001	26-MAY-2006 10:57	316186669001	09-MAY-2006	1223.3	1257.4	100.00	102.79	ng	3	15	
GC05	I	316210897001	26-MAY-2006 10:57	316186669001	09-MAY-2006	100.41	100.00	100.00	99.596	ng	0	15	
GC05	H	316210897012	26-MAY-2006 19:13	316186669001	09-MAY-2006	1223.3	1316.2	150.00	161.39	ng	8	15	
GC05	I	316210897012	26-MAY-2006 19:13	316186669001	09-MAY-2006	100.41	104.37	150.00	155.92	ng	4	15	
GC05	H	316210897013	26-MAY-2006 19:45	316186669001	09-MAY-2006	1223.3	1278.5	150.00	156.76	ng	5	15	
GC05	I	316210897013	26-MAY-2006 19:45	316186669001	09-MAY-2006	100.41	103.69	150.00	154.90	ng	3	15	
GC05	H	316210897028	27-MAY-2006 03:46	316186669001	09-MAY-2006	1223.3	1165.4	50.000	47.633	ng	-5	15	
GC05	I	316210897028	27-MAY-2006 03:46	316186669001	09-MAY-2006	100.41	93.697	50.000	46.658	ng	-7	15	

CONTINUING CALIBRATION SUMMARY FOR 187065 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: m,p-Xylenes

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316210897001	26-MAY-2006 10:57	316186669001	09-MAY-2006	1635.3	1566.3	100.00	95.784	ng	-4	15	
GC05	I	316210897001	26-MAY-2006 10:57	316186669001	09-MAY-2006	133.27	119.82	100.00	89.905	ng	-10	15	
GC05	H	316210897012	26-MAY-2006 19:13	316186669001	09-MAY-2006	1635.3	1587.0	150.00	145.58	ng	-3	15	
GC05	I	316210897012	26-MAY-2006 19:13	316186669001	09-MAY-2006	133.27	123.86	150.00	139.40	ng	-7	15	
GC05	H	316210897013	26-MAY-2006 19:45	316186669001	09-MAY-2006	1635.3	1586.3	150.00	145.51	ng	-3	15	
GC05	I	316210897013	26-MAY-2006 19:45	316186669001	09-MAY-2006	133.27	117.80	150.00	132.58	ng	-12	15	
GC05	H	316210897028	27-MAY-2006 03:46	316186669001	09-MAY-2006	1635.3	1494.2	50.000	45.687	ng	-9	15	
GC05	I	316210897028	27-MAY-2006 03:46	316186669001	09-MAY-2006	133.27	106.53	50.000	39.968	ng	**-20**	15	c- ***

Flcnf
Quantok

-=low bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 187065 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: o-Xylene

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316210897001	26-MAY-2006 10:57	316186669001	09-MAY-2006	1202.6	1300.4	100.00	108.13	ng	8	15	
GC05	I	316210897001	26-MAY-2006 10:57	316186669001	09-MAY-2006	108.65	95.850	100.00	88.219	ng	-12	15	
GC05	H	316210897012	26-MAY-2006 19:13	316186669001	09-MAY-2006	1202.6	1322.2	150.00	164.92	ng	10	15	
GC05	I	316210897012	26-MAY-2006 19:13	316186669001	09-MAY-2006	108.65	101.77	150.00	140.50	ng	-6	15	
GC05	H	316210897013	26-MAY-2006 19:45	316186669001	09-MAY-2006	1202.6	1303.5	150.00	162.59	ng	8	15	
GC05	I	316210897013	26-MAY-2006 19:45	316186669001	09-MAY-2006	108.65	100.38	150.00	138.58	ng	-8	15	
GC05	H	316210897028	27-MAY-2006 03:46	316186669001	09-MAY-2006	1202.6	1257.1	50.000	52.265	ng	5	15	
GC05	I	316210897028	27-MAY-2006 03:46	316186669001	09-MAY-2006	108.65	93.140	50.000	42.862	ng	-14	15	

CONTINUING CALIBRATION SUMMARY FOR 187065 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Trifluorotoluene (FID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC04	A	306210873002	26-MAY-2006 11:10	306156213001	18-APR-2006	3345.8	3256.5	450.00	437.99	ng	-3	15	
GC04	A	306210873003	26-MAY-2006 11:46	306156213001	18-APR-2006	3345.8	3964.4	450.00	533.21	ng	**18**	15	c+
GC04	A	306210873012	28-MAY-2006 12:17	306156213001	18-APR-2006	3345.8	4314.4	450.00	580.28	ng	**29**	15	c+
GC05	G	316210897001	26-MAY-2006 10:57	316186669002	10-MAY-2006	1119.4	957.87	450.00	385.05	ng	-14	15	
GC05	G	316210897002	26-MAY-2006 11:29	316186669002	10-MAY-2006	1119.4	1379.3	450.00	554.46	ng	**23**	15	c+
GC05	G	316210897012	26-MAY-2006 19:13	316186669002	10-MAY-2006	1119.4	1052.4	450.00	423.07	ng	-6	15	
GC05	G	316210897028	27-MAY-2006 03:46	316186669002	10-MAY-2006	1119.4	1128.6	450.00	453.71	ng	1	15	
GC05	G	316210897040	27-MAY-2006 10:09	316186669002	10-MAY-2006	1119.4	1321.0	450.00	531.05	ng	**18**	15	c+

PASS

mmp 5/30/06

IN-House QC Limits:
TFT + FID - H_2O:
69-137 % Rec.

+=high bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 187065 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Bromofluorobenzene (FID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC04	A	306210873002	26-MAY-2006 11:10	306156213001	18-APR-2006	2232.1	2210.8	450.00	445.69	ng	-1	15	
GC04	A	306210873003	26-MAY-2006 11:46	306156213001	18-APR-2006	2232.1	2502.2	450.00	504.44	ng	12	15	
GC04	A	306210873012	28-MAY-2006 12:17	306156213001	18-APR-2006	2232.1	2476.2	450.00	499.21	ng	11	15	
GC05	G	316210897001	26-MAY-2006 10:57	316186669002	10-MAY-2006	680.98	619.38	450.00	409.30	ng	-9	15	
GC05	G	316210897002	26-MAY-2006 11:29	316186669002	10-MAY-2006	680.98	647.56	450.00	427.92	ng	-5	15	
GC05	G	316210897012	26-MAY-2006 19:13	316186669002	10-MAY-2006	680.98	658.41	450.00	435.09	ng	-3	15	
GC05	G	316210897028	27-MAY-2006 03:46	316186669002	10-MAY-2006	680.98	720.09	450.00	475.85	ng	6	15	
GC05	G	316210897040	27-MAY-2006 10:09	316186669002	10-MAY-2006	680.98	727.47	450.00	480.72	ng	7	15	

CONTINUING CALIBRATION SUMMARY FOR 187065 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Trifluorotoluene (PID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316210897001	26-MAY-2006 10:57	316186669002	10-MAY-2006	417.73	386.30	450.00	416.14	ng	-8	15	
GC05	I	316210897001	26-MAY-2006 10:57	316186669002	10-MAY-2006	29.125	29.053	450.00	448.89	ng	0	15	
GC05	H	316210897012	26-MAY-2006 19:13	316186669002	10-MAY-2006	417.73	411.02	450.00	442.78	ng	-2	15	
GC05	I	316210897012	26-MAY-2006 19:13	316186669002	10-MAY-2006	29.125	30.206	450.00	466.70	ng	4	15	
GC05	H	316210897028	27-MAY-2006 03:46	316186669002	10-MAY-2006	417.73	414.33	450.00	446.34	ng	-1	15	
GC05	I	316210897028	27-MAY-2006 03:46	316186669002	10-MAY-2006	29.125	32.571	450.00	503.25	ng	12	15	

CONTINUING CALIBRATION SUMMARY FOR 187065 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Bromofluorobenzene (PID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	H	316210897001	26-MAY-2006 10:57	316186669002	10-MAY-2006	818.75	807.92	450.00	444.05	ng	-1	15	
GC05	I	316210897001	26-MAY-2006 10:57	316186669002	10-MAY-2006	63.243	67.040	450.00	477.02	ng	6	15	
GC05	H	316210897012	26-MAY-2006 19:13	316186669002	10-MAY-2006	818.75	817.63	450.00	449.38	ng	0	15	
GC05	I	316210897012	26-MAY-2006 19:13	316186669002	10-MAY-2006	63.243	66.773	450.00	475.12	ng	6	15	
GC05	H	316210897028	27-MAY-2006 03:46	316186669002	10-MAY-2006	818.75	878.78	450.00	482.99	ng	7	15	
GC05	I	316210897028	27-MAY-2006 03:46	316186669002	10-MAY-2006	63.243	75.504	450.00	537.25	ng	**19**	15	c+ PASS

mmo 5/30/06

In-House QC Limits:

BFB-PID-H_2O:

80-120% Rec.

+=high bias c=CCV

Confirmation Report for 187065 GCVOA Water
Curtis & Tompkins Laboratories

Units: ug/L

Lab ID	Client ID	Analyte	Result	Confirmation	RPD	%D
187065-001	1065PZ1A	Gasoline C7-C12	164.6	???		
187065-002	1065PZ2A	MTBE	7.067	6.393	10	-10
187065-002	1065PZ2A	MTBE	7.067	6.393	10	-10
187065-009	1213GW101	Gasoline C7-C12	68.42	???		
187065-011	DUP-05242006	Gasoline C7-C12	141.3	???		
187065-012	1349MW100	Gasoline C7-C12	688.6	???		
187065-013	DUP0524063A	Gasoline C7-C12	486.3	???		
187065-015	1065PZ5AR	MTBE	3.542 C	1.740	68	-51
187065-015	1065PZ5AR	MTBE	3.542 C	1.740	68	-51

C=RPD between columns exceeds 40%

PROJECT GC 04 Sequence Log Book

Notebook No. BL 2175

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 306156213 Instrument: GC04 Gas Chromatograph #4 TVH/BTXE Begun: 18-APR-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv13

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	108_001	X	ib			18-APR-2006 11:33	1.0					1	
002	108_002	X	ib			18-APR-2006 12:10	1.0					1	
003	108_003	ICAL	tft/bfb 1			18-APR-2006 12:47	1.0					2 PASS/USE	
004	108_004	ICAL	tft/bfb 2			18-APR-2006 13:29	1.0					3	
005	108_005	X	tft/bfb 3			18-APR-2006 14:11	1.0					4 RR point	
006	108_006	ICAL	tft/bfb 4			18-APR-2006 15:09	1.0					5 PASS/USE	
007	108_007	ICAL	tft/bfb 5			18-APR-2006 15:58	1.0					6	
008	108_008	X	ib			19-APR-2006 14:41	1.0					1	
009	108_009	ICAL	tft/bfb 3			19-APR-2006 15:18	1.0					4 PASS/USE	
010	108_010	X	ib			19-APR-2006 16:11	1.0					1	
011	108_011	X	ib			19-APR-2006 21:38	1.0					1	
012	108_012	X	ib			19-APR-2006 22:15	1.0					1 [illegible] 4/21/06	
013	108_013	X	btxe 1			19-APR-2006 22:52	1.0					7 1 ~~PASS~~ RR point	
014	108_014	ICAL	mtbe 1			19-APR-2006 23:28	1.0					8 1 PASS/USE	
015	108_015	ICAL	btxe 2			20-APR-2006 00:05	1.0					8 1	
016	108_016	ICAL	btxe 3			20-APR-2006 00:42	1.0					8 1	
017	108_017	ICAL	btxe 4			20-APR-2006 01:18	1.0					9 1	
018	108_018	ICAL	btxe 5			20-APR-2006 01:55	1.0					9 1	
019	108_019	ICAL	btxe 6			20-APR-2006 02:31	1.0					9 1	
020	108_020	ICAL	mtbe 7			20-APR-2006 03:08	1.0					10 1	
021	108_021	X	ib			20-APR-2006 03:45	1.0					1	
022	108_022	X	mbtxe			20-APR-2006 04:21	1.0					11 1 Not used, remaining point	
023	108_023	X	mbtxe			20-APR-2006 04:58	1.0					11 1	
024	108_024	X	ib			20-APR-2006 09:18	1.0					1	
025	108_025	ICAL	btxe 1			20-APR-2006 09:55	1.0					7 1 PASS/USE	
026	108_026	ICV	mbtxe			20-APR-2006 11:08	1.0	1	5000			11 1	
027	108_027	X	mbtxe			20-APR-2006 11:44	1.0					11 1 not used	

Stds used: 1=S3248 2=S2572 3=S2573 4=S2574 5=S2575 6=S2576 7=S2850 8=S2849 9=S2848 10=S2847 11=S3079

Analyst: [signature] Date: 04/21/06

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Signed [signature] Date 04/21/06

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Signed [signature] Date 4/21/06

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PROJECT GC 05 SEQUENCE LOG BOOK

Notebook No. BK 2266

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316186669 Instrument: GC05
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #5 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv13

Begun: 09-MAY-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	129_001	X	ib			09-MAY-2006 15:09	1.0					1	
002	129_002	X	ib			09-MAY-2006 15:41	1.0					1	
003	129_003	ICAL	btxe 1			09-MAY-2006 16:13	1.0					2 1 PASS/USE	
004	129_004	ICAL	mtbe 1			09-MAY-2006 16:46	1.0					3 1	
005	129_005	ICAL	btxe 2			09-MAY-2006 17:18	1.0					3 1	
006	129_006	ICAL	btxe 3			09-MAY-2006 17:50	1.0					3 1	
007	129_007	ICAL	btxe 4			09-MAY-2006 18:22	1.0					4 1	
008	129_008	ICAL	btxe 5			09-MAY-2006 18:54	1.0					4 1	
009	129_009	ICAL	btxe 6			09-MAY-2006 19:26	1.0					4 1	
010	129_010	ICAL	mtbe 7			09-MAY-2006 19:58	1.0					5 1	
011	129_011	X	ib			09-MAY-2006 20:30	1.0					1	
012	129_012	ICV	mbtxe			09-MAY-2006 21:02	1.0	1	5000			6 1 NOT USED	
013	129_013	ICV	mbtxe			09-MAY-2006 21:34	1.0		5000			6 1 PASS/USE	
014	129_014	X	ib			10-MAY-2006 10:43	1.0					1	
015	129_015	ICAL	tft/bfb 1			10-MAY-2006 11:15	1.0					7 PASS/USE	
016	129_016	ICAL	tft/bfb 2			10-MAY-2006 12:11	1.0					8	
017	129_017	ICAL	tft/bfb 3			10-MAY-2006 13:12	1.0					9	
018	129_018	ICAL	tft/bfb 4			10-MAY-2006 13:45	1.0					10	
019	129_019	ICAL	tft/bfb 5			10-MAY-2006 14:45	1.0					11	

Stds used: 1=S3248 2=S2850 3=S2849 4=S2848 5=S2847 6=S3079 7=S3289 8=S3290 9=S3291 10=S3292 11=S3293

Analyst: TJP Date: 5/11/06

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Notebook No. BL 2175

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 306196906 Instrument: GC04
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #4 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv13

Begun: 16-MAY-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC SPK uL	VL	pH	Stds Used	>LR
001	136_001	X	ib			16-MAY-2006 17:46	1.0				1	
002	136_002	X	ib			16-MAY-2006 18:22	1.0				1	
003	136_003	X	ical			16-MAY-2006 18:59	1.0				2 1 Not used	
004	136_004	ICAL	tvh 1			16-MAY-2006 19:36	1.0				2 1 Pass/use	
005	136_005	ICAL	tvh 2			16-MAY-2006 20:12	1.0				3 1	
006	136_006	ICAL	tvh 3			16-MAY-2006 20:49	1.0				4 1	
007	136_007	ICAL	tvh 4			16-MAY-2006 21:26	1.0				5 1	
008	136_008	ICAL	tvh 5			16-MAY-2006 22:02	1.0				5 1	
009	136_009	X	ib			16-MAY-2006 22:39	1.0				1	
010	136_010	ICV	tvh			16-MAY-2006 23:15	1.0	5000			6 1 Pass/use	

Stds used: 1=S3248 2=S3460 3=S3459 4=S3458 5=S3457 6=S3323

Analyst: [signature] Date: 05/17/06

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Signed [signature] Date 05/17/06

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Signed [signature] Date 5/17/06

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PROJECT GC/MS Sequence Log Book

Notebook No. Bk 2246
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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316199245 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 18-MAY-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv13

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC SPK uL	VL	pH	Stds Used	>LR
001	138_001	X	ib			18-MAY-2006 08:45	1.0				1	
002	138_002	X	QC340572	113573	Water	18-MAY-2006 09:17	1.0				2 1 Not used	
003	138_003	X	QC340573	113573	Water	18-MAY-2006 09:49	1.0				3 1	
004	138_004	X	QC340571	113573	Water	18-MAY-2006 10:21	1.0				1	
005	138_005	X	ib			18-MAY-2006 16:15	1.0				1	
006	138_006	ICAL	tvh 1			18-MAY-2006 16:47	1.0				4 1 PASS/USE	
007	138_007	ICAL	tvh 2			18-MAY-2006 17:19	1.0				5 1	
008	138_008	ICAL	tvh 3			18-MAY-2006 17:51	1.0				6 1	
009	138_009	ICAL	tvh 4			18-MAY-2006 18:23	1.0				7 1	
010	138_010	ICAL	tvh 5			18-MAY-2006 18:55	1.0				7 1	
011	138_011	X	ib			18-MAY-2006 19:27	1.0				1	
012	138_012	X	carbmark			18-MAY-2006 19:58	1.0				8 9 1 USE	
013	138_013	X	ib			18-MAY-2006 20:30	1.0				1	
014	138_014	ICV	tvh			18-MAY-2006 21:02	1.0	5000			3 1 PASS/USE	

Stds used: 1=S3248 2=S3406 3=S3323 4=S3460 5=S3459 6=S3458 7=S3457 8=S1645 9=S1646

Analyst: [signature] Date: 05/22/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 306210873 Instrument: GC04 Gas Chromatograph #4 TVH/BTXE Begun: 26-MAY-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv13

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds Used	>LR
001	146_001	X	ib			26-MAY-2006 10:33	1.0						1	
002	146_002	CCV/LCS	QC341629	113841	Water	26-MAY-2006 11:10	1.0			5000			2 1 PASS	
003	146_003	CCV/LCS	QC341630	113841	Water	26-MAY-2006 11:46	1.0			5000			3 1 PASS/USE	
004	146_004	BLANK	QC341628	113841	Water	26-MAY-2006 12:23	1.0	1		5000			1 6 1/2 RL	
005	146_005	SAMPLE	187065-011	113841	Water	26-MAY-2006 15:13	1.0			5000	B	1.3	1	
006	146_006	SAMPLE	187065-012	113841	Water	26-MAY-2006 15:49	1.0			5000		1.6	1	
007	146_007	SAMPLE	187065-013	113841	Water	26-MAY-2006 16:26	1.0			5000		↓	1	
008	146_008	MSS	187086-001	113841	Water	26-MAY-2006 18:49	1.0	1		5000		1.3	1	
009	146_009	SAMPLE	187086-002	113841	Water	26-MAY-2006 19:25	1.0			5000			1	
010	146_010	MS	QC341708	113841	Water	26-MAY-2006 20:02	1.0			5000			3 1 PASS/USE	
011	146_011	MSD	QC341709	113841	Water	26-MAY-2006 20:39	1.0			5000			3 1	
012	146_012	CCV	tvh	113841		28-MAY-2006 12:17	1.0			5000			3 1	
013	146_013	CCV	tvh	113841		28-MAY-2006 12:53	1.0			5000			3 1	
014	146_014	SAMPLE	187086-003	113841	Water	28-MAY-2006 13:30	1.0			5000	B	1.3	1	
015	146_015	SAMPLE	187086-004	113841	Water	28-MAY-2006 14:07	1.0			5000			1	
016	146_016	SAMPLE	187086-005	113841	Water	28-MAY-2006 14:43	1.0			5000			1	
017	146_017	SAMPLE	187086-006	113841	Water	28-MAY-2006 15:20	1.0			5000			1	
018	146_018	SAMPLE	187086-010	113841	Water	28-MAY-2006 15:57	1.0			5000	A		1	
019	146_019	SAMPLE	187045-001	113841	Water	28-MAY-2006 16:33	1.0	1	1	5000	B		1	6:GAS:7-=95680.4
020	146_020	SAMPLE	187045-002	113841	Water	28-MAY-2006 17:20	1.0	2		5000			1	8:GAS:7-=170844
021	146_021	SAMPLE	187045-003	113841	Water	28-MAY-2006 17:57	1.0			5000			1	
022	146_022	SAMPLE	187045-004	113841	Water	28-MAY-2006 18:34	1.0			5000			1	4:XYLMP=4786.08
023	146_023	SAMPLE	187045-005	113841	Water	28-MAY-2006 19:10	1.0			5000			1	
024	146_024	CCV	tvh	113841		28-MAY-2006 19:47	1.0			5000			3 1 PASS/USE	
025	146_025	CCV	tvh	113841		28-MAY-2006 20:24	1.0			5000			3 1	
026	146_026	SAMPLE	187045-006	113841	Water	28-MAY-2006 21:00	1.0			5000	B	1.3	1	
027	146_027	SAMPLE	187087-002	113841	Water	28-MAY-2006 21:37	1.0			5000		7.0	1	
028	146_028	SAMPLE	187087-003	113841	Water	28-MAY-2006 22:13	1.0			5000			1	
029	146_029	SAMPLE	187087-004	113841	Water	28-MAY-2006 22:50	1.0			5000			1	
030	146_030	SAMPLE	187087-005	113841	Water	28-MAY-2006 23:27	1.0			5000			1	

Stds used: 1=S3248 2=S3406 3=S3282

Analyst: [signature] Date: 05/30/06

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[signature] 05/30/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 306210873 Instrument: GC04 Gas Chromatograph #4 TVH/BTXE Begun: 26-MAY-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv13

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds Used	>LR
031	146_031	CCV	tvh	113841		29-MAY-2006 00:03	1.0			5000			3 1 PASS/USE	
032	146_032	CCV	tvh	113841		29-MAY-2006 00:40	1.0			5000			3 1	

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Stds used: 1=S3248 2=S3406 3=S3282

Analyst: [signature] Date: 05/30/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316210897 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 26-MAY-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv13

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	146_001	CCV/BS	QC341632	113842	Water	26-MAY-2006 10:57	1.0			5000			1 2 PASS/USE	
002	146_002	CCV/LCS	QC341633	113842	Water	26-MAY-2006 11:29	1.0			5000			3 2	
003	146_003	CCV	avgas	113842		26-MAY-2006 12:01	1.0			5000			4 2	1:BZME=2528.01
004	146_004	BLANK	QC341631	113842	Water	26-MAY-2006 12:33	1.0	2		5000			2 <1/2 RL	
005	146_005	MSS	187065-002	113842	Water	26-MAY-2006 15:27	1.0	2		5000	A	3	2	
006	146_006	SAMPLE	187065-003	113842	Water	26-MAY-2006 15:59	1.0	1		5000			2	
007	146_007	SAMPLE	187065-008	113842	Water	26-MAY-2006 16:32	1.0	1		5000			2	
008	146_008	SAMPLE	187065-010	113842	Water	26-MAY-2006 17:04	1.0	1		5000			2	
009	146_009	SAMPLE	187065-015	113842	Water	26-MAY-2006 17:36	1.0	1		5000			2	
010	146_010	SAMPLE	187065-016	113842	Water	26-MAY-2006 18:09	1.0	1		5000			2	
011	146_011	SAMPLE	187065-017	113842	Water	26-MAY-2006 18:41	1.0	1		5000			2	
012	146_012	CCV	mbtxe	113842		26-MAY-2006 19:13	1.0			5000			1 2 PASS/USE	
013	146_013	CCV	mbtxe	113842		26-MAY-2006 19:45	1.0			5000			1 2	
014	146_014	CCV	tvh	113842		26-MAY-2006 20:17	1.0			5000			3 2	
015	146_015	CCV	tvh	113842		26-MAY-2006 20:49	1.0			5000			3 2	
016	146_016	CCV	avgas	113842		26-MAY-2006 21:21	1.0			5000			4 2	1:BZME=2520.38
017	146_017	CCV	avgas	113842		26-MAY-2006 21:53	1.0			5000			4 2	1:BZME=2545.24
018	146_018	SAMPLE	187075-001	113842	Water	26-MAY-2006 22:25	1.0	1		5000	A	3	2	
019	146_019	SAMPLE	187075-003	113842	Water	26-MAY-2006 22:57	1.0	1		5000			2	
020	146_020	SAMPLE	187075-004	113842	Water	26-MAY-2006 23:29	1.0	1		5000			2	
021	146_021	SAMPLE	187075-005	113842	Water	27-MAY-2006 00:01	1.0	1		5000			2	
022	146_022	SAMPLE	187075-006	113842	Water	27-MAY-2006 00:33	1.0	1		5000			2	
023	146_023	SAMPLE	187075-008	113842	Water	27-MAY-2006 01:05	1.0	1		5000			2	
024	146_024	SAMPLE	187095-001	113842	Water	27-MAY-2006 01:38	1.0	14		5000		6	2 sh	
025	146_025	MS	QC341739	113842	Water	27-MAY-2006 02:10	1.0			5000		3	3 2 PASS/USE	
026	146_026	MSD	QC341740	113842	Water	27-MAY-2006 02:42	1.0		1	5000			3 2	
027	146_027	BSD	QC341741	113842	Water	27-MAY-2006 03:14	1.0	1		5000			1 2	
028	146_028	CCV	mbtxe	113842		27-MAY-2006 03:46	1.0	1		5000			1 2	
029	146_029	CCV	mbtxe	113842		27-MAY-2006 04:18	1.0	1		5000			1 2	

Stds used: 1=S3406 2=S3248 3=S3282 4=S2778
Flags used: sh=out of sample hold

Analyst: TJT Date: 5/30/06
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Helen J. Perry 5/30/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316210897 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 26-MAY-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv13

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
030	146_030	CCV	tvh	113842		27-MAY-2006 04:50	1.0			5000			3 2 PASS/USE	
031	146_031	CCV	tvh	113842		27-MAY-2006 05:22	1.0			5000			3 2	
032	146_032	CCV	avgas	113842		27-MAY-2006 05:54	1.0			5000			4 2	1:BZME=2527.82
033	146_033	CCV	avgas	113842		27-MAY-2006 06:26	1.0			5000			4 2	1:BZME=2518.85
034	146_034	SAMPLE	187065-001	113842	Water	27-MAY-2006 06:58	1.0	1		5000	B	3	2	
035	146_035	SAMPLE	187065-004	113842	Water	27-MAY-2006 07:30	1.0	1		5000			2	
036	146_036	SAMPLE	187065-005	113842	Water	27-MAY-2006 08:02	1.0	1		5000			2	
037	146_037	SAMPLE	187065-006	113842	Water	27-MAY-2006 08:33	1.0	1		5000			2	
038	146_038	SAMPLE	187065-009	113842	Water	27-MAY-2006 09:05	1.0	1		5000			2	
039	146_039	SAMPLE	187065-014	113842	Water	27-MAY-2006 09:37	1.0	1		5000			2	
040	146_040	CCV	tvh	113842		27-MAY-2006 10:09	1.0			5000			3 2 PASS/USE	
041	146_041	X	tvh	113842		27-MAY-2006 10:41	1.0	3		5000			3 2 NOT USED	

Helen J. Perry 5/30/06

Stds used: 1=S3406 2=S3248 3=S3282 4=S2778
Flags used: sh=out of sample hold

Analyst: TJT Date: 5/30/06
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Signed 5/30/06 Date

REPORTING SUMMARY FOR 187065 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
187065-001	Gasoline C7-C12	GC05	G	05/27/06 06:58
187065-001	Trifluorotoluene (FID)	GC05	G	05/27/06 06:58
187065-001	Bromofluorobenzene (FID)	GC05	G	05/27/06 06:58
187065-002	Gasoline C7-C12	GC05	G	05/26/06 15:27
187065-002	MTBE	GC05	H	05/26/06 15:27
187065-002	Benzene	GC05	H	05/26/06 15:27
187065-002	Toluene	GC05	H	05/26/06 15:27
187065-002	Ethylbenzene	GC05	H	05/26/06 15:27
187065-002	Trifluorotoluene (FID)	GC05	G	05/26/06 15:27
187065-002	Bromofluorobenzene (FID)	GC05	G	05/26/06 15:27
187065-002	Trifluorotoluene (PID)	GC05	H	05/26/06 15:27
187065-002	Bromofluorobenzene (PID)	GC05	H	05/26/06 15:27
187065-002	Xylene (total)	GC05	H	05/26/06 15:27
187065-003	Gasoline C7-C12	GC05	G	05/26/06 15:59
187065-003	MTBE	GC05	H	05/26/06 15:59
187065-003	Benzene	GC05	H	05/26/06 15:59
187065-003	Toluene	GC05	H	05/26/06 15:59
187065-003	Ethylbenzene	GC05	H	05/26/06 15:59
187065-003	Trifluorotoluene (FID)	GC05	G	05/26/06 15:59
187065-003	Bromofluorobenzene (FID)	GC05	G	05/26/06 15:59
187065-003	Trifluorotoluene (PID)	GC05	H	05/26/06 15:59
187065-003	Bromofluorobenzene (PID)	GC05	H	05/26/06 15:59
187065-003	Xylene (total)	GC05	H	05/26/06 15:59
187065-004	Gasoline C7-C12	GC05	G	05/27/06 07:30
187065-004	Trifluorotoluene (FID)	GC05	G	05/27/06 07:30
187065-004	Bromofluorobenzene (FID)	GC05	G	05/27/06 07:30
187065-005	Gasoline C7-C12	GC05	G	05/27/06 08:02
187065-005	Trifluorotoluene (FID)	GC05	G	05/27/06 08:02
187065-005	Bromofluorobenzene (FID)	GC05	G	05/27/06 08:02
187065-006	Gasoline C7-C12	GC05	G	05/27/06 08:33
187065-006	Trifluorotoluene (FID)	GC05	G	05/27/06 08:33
187065-006	Bromofluorobenzene (FID)	GC05	G	05/27/06 08:33
187065-008	Gasoline C7-C12	GC05	G	05/26/06 16:32
187065-008	MTBE	GC05	H	05/26/06 16:32
187065-008	Benzene	GC05	H	05/26/06 16:32
187065-008	Toluene	GC05	H	05/26/06 16:32
187065-008	Ethylbenzene	GC05	H	05/26/06 16:32
187065-008	Trifluorotoluene (FID)	GC05	G	05/26/06 16:32
187065-008	Bromofluorobenzene (FID)	GC05	G	05/26/06 16:32
187065-008	Trifluorotoluene (PID)	GC05	H	05/26/06 16:32
187065-008	Bromofluorobenzene (PID)	GC05	H	05/26/06 16:32
187065-008	Xylene (total)	GC05	H	05/26/06 16:32
187065-009	Gasoline C7-C12	GC05	G	05/27/06 09:05
187065-009	Trifluorotoluene (FID)	GC05	G	05/27/06 09:05
187065-009	Bromofluorobenzene (FID)	GC05	G	05/27/06 09:05
187065-010	Gasoline C7-C12	GC05	G	05/26/06 17:04

REPORTING SUMMARY FOR 187065 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
187065-010	MTBE	GC05	H	05/26/06 17:04
187065-010	Benzene	GC05	H	05/26/06 17:04
187065-010	Toluene	GC05	H	05/26/06 17:04
187065-010	Ethylbenzene	GC05	H	05/26/06 17:04
187065-010	Trifluorotoluene (FID)	GC05	G	05/26/06 17:04
187065-010	Bromofluorobenzene (FID)	GC05	G	05/26/06 17:04
187065-010	Trifluorotoluene (PID)	GC05	H	05/26/06 17:04
187065-010	Bromofluorobenzene (PID)	GC05	H	05/26/06 17:04
187065-010	Xylene (total)	GC05	H	05/26/06 17:04
187065-011	Gasoline C7-C12	GC04	A	05/26/06 15:13
187065-011	Trifluorotoluene (FID)	GC04	A	05/26/06 15:13
187065-011	Bromofluorobenzene (FID)	GC04	A	05/26/06 15:13
187065-012	Gasoline C7-C12	GC04	A	05/26/06 15:49
187065-012	Trifluorotoluene (FID)	GC04	A	05/26/06 15:49
187065-012	Bromofluorobenzene (FID)	GC04	A	05/26/06 15:49
187065-013	Gasoline C7-C12	GC04	A	05/26/06 16:26
187065-013	Trifluorotoluene (FID)	GC04	A	05/26/06 16:26
187065-013	Bromofluorobenzene (FID)	GC04	A	05/26/06 16:26
187065-014	Gasoline C7-C12	GC05	G	05/27/06 09:37
187065-014	Trifluorotoluene (FID)	GC05	G	05/27/06 09:37
187065-014	Bromofluorobenzene (FID)	GC05	G	05/27/06 09:37
187065-015	Gasoline C7-C12	GC05	G	05/26/06 17:36
187065-015	MTBE	GC05	H	05/26/06 17:36
187065-015	Benzene	GC05	H	05/26/06 17:36
187065-015	Toluene	GC05	H	05/26/06 17:36
187065-015	Ethylbenzene	GC05	H	05/26/06 17:36
187065-015	Trifluorotoluene (FID)	GC05	G	05/26/06 17:36
187065-015	Bromofluorobenzene (FID)	GC05	G	05/26/06 17:36
187065-015	Trifluorotoluene (PID)	GC05	H	05/26/06 17:36
187065-015	Bromofluorobenzene (PID)	GC05	H	05/26/06 17:36
187065-015	Xylene (total)	GC05	H	05/26/06 17:36
187065-016	Gasoline C7-C12	GC05	G	05/26/06 18:09
187065-016	MTBE	GC05	H	05/26/06 18:09
187065-016	Benzene	GC05	H	05/26/06 18:09
187065-016	Toluene	GC05	H	05/26/06 18:09
187065-016	Ethylbenzene	GC05	H	05/26/06 18:09
187065-016	Trifluorotoluene (FID)	GC05	G	05/26/06 18:09
187065-016	Bromofluorobenzene (FID)	GC05	G	05/26/06 18:09
187065-016	Trifluorotoluene (PID)	GC05	H	05/26/06 18:09
187065-016	Bromofluorobenzene (PID)	GC05	H	05/26/06 18:09
187065-016	Xylene (total)	GC05	H	05/26/06 18:09
187065-017	Gasoline C7-C12	GC05	G	05/26/06 18:41
187065-017	MTBE	GC05	H	05/26/06 18:41
187065-017	Benzene	GC05	H	05/26/06 18:41
187065-017	Toluene	GC05	H	05/26/06 18:41
187065-017	Ethylbenzene	GC05	H	05/26/06 18:41
187065-017	Trifluorotoluene (FID)	GC05	G	05/26/06 18:41

REPORTING SUMMARY FOR 187065 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
187065-017	Bromofluorobenzene (FID)	GC05	G	05/26/06 18:41
187065-017	Trifluorotoluene (PID)	GC05	H	05/26/06 18:41
187065-017	Bromofluorobenzene (PID)	GC05	H	05/26/06 18:41
187065-017	Xylene (total)	GC05	H	05/26/06 18:41
QC341628	Gasoline C7-C12	GC04	A	05/26/06 12:23
QC341628	Trifluorotoluene (FID)	GC04	A	05/26/06 12:23
QC341628	Bromofluorobenzene (FID)	GC04	A	05/26/06 12:23
QC341630	Gasoline C7-C12	GC04	A	05/26/06 11:46
QC341630	Trifluorotoluene (FID)	GC04	A	05/26/06 11:46
QC341630	Bromofluorobenzene (FID)	GC04	A	05/26/06 11:46
QC341631	Gasoline C7-C12	GC05	G	05/26/06 12:33
QC341631	MTBE	GC05	H	05/26/06 12:33
QC341631	Benzene	GC05	H	05/26/06 12:33
QC341631	Toluene	GC05	H	05/26/06 12:33
QC341631	Ethylbenzene	GC05	H	05/26/06 12:33
QC341631	Trifluorotoluene (FID)	GC05	G	05/26/06 12:33
QC341631	Bromofluorobenzene (FID)	GC05	G	05/26/06 12:33
QC341631	Trifluorotoluene (PID)	GC05	H	05/26/06 12:33
QC341631	Bromofluorobenzene (PID)	GC05	H	05/26/06 12:33
QC341631	Xylene (total)	GC05	H	05/26/06 12:33
QC341632	MTBE	GC05	H	05/26/06 10:57
QC341632	Benzene	GC05	H	05/26/06 10:57
QC341632	Toluene	GC05	H	05/26/06 10:57
QC341632	Ethylbenzene	GC05	H	05/26/06 10:57
QC341632	Trifluorotoluene (PID)	GC05	H	05/26/06 10:57
QC341632	Bromofluorobenzene (PID)	GC05	H	05/26/06 10:57
QC341633	Gasoline C7-C12	GC05	G	05/26/06 11:29
QC341633	Trifluorotoluene (FID)	GC05	G	05/26/06 11:29
QC341633	Bromofluorobenzene (FID)	GC05	G	05/26/06 11:29
QC341708	Gasoline C7-C12	GC04	A	05/26/06 20:02
QC341708	Trifluorotoluene (FID)	GC04	A	05/26/06 20:02
QC341708	Bromofluorobenzene (FID)	GC04	A	05/26/06 20:02
QC341709	Gasoline C7-C12	GC04	A	05/26/06 20:39
QC341709	Trifluorotoluene (FID)	GC04	A	05/26/06 20:39
QC341709	Bromofluorobenzene (FID)	GC04	A	05/26/06 20:39
QC341739	Gasoline C7-C12	GC05	G	05/27/06 02:10
QC341739	Trifluorotoluene (FID)	GC05	G	05/27/06 02:10
QC341739	Bromofluorobenzene (FID)	GC05	G	05/27/06 02:10
QC341740	Gasoline C7-C12	GC05	G	05/27/06 02:42
QC341740	Trifluorotoluene (FID)	GC05	G	05/27/06 02:42
QC341740	Bromofluorobenzene (FID)	GC05	G	05/27/06 02:42
QC341741	MTBE	GC05	H	05/27/06 03:14
QC341741	Benzene	GC05	H	05/27/06 03:14
QC341741	Toluene	GC05	H	05/27/06 03:14

REPORTING SUMMARY FOR 187065 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC341741	Ethylbenzene	GC05	H	05/27/06 03:14
QC341741	Trifluorotoluene (PID)	GC05	H	05/27/06 03:14
QC341741	Bromofluorobenzene (PID)	GC05	H	05/27/06 03:14

GC04

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 113841
Date Started: 26-MAY-2006
Batched by : Micaela M. Perpetuo

Analysis : N/A
Bgroup : TVH
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
187045-001			Shaw E&I	Water	TVH	06-JUN-2006
187045-002			Shaw E&I	Water	TVH	06-JUN-2006
187045-003			Shaw E&I	Water	TVH	06-JUN-2006
187045-004			Shaw E&I	Water	TVH	06-JUN-2006
187045-005			Shaw E&I	Water	TVH	06-JUN-2006
187045-006			Shaw E&I	Water	TVH	06-JUN-2006
187065-011			Treadwell & Rollo	Water	TVH	07-JUN-2006
187065-012			Treadwell & Rollo	Water	TVH	07-JUN-2006
187065-013			Treadwell & Rollo	Water	TVH	07-JUN-2006
187086-001			Acton Mickelson En	Water	TVH	07-JUN-2006
187086-002			Acton Mickelson En	Water	TVH	07-JUN-2006
187086-003			Acton Mickelson En	Water	TVH	07-JUN-2006
187086-004			Acton Mickelson En	Water	TVH	07-JUN-2006
187086-005			Acton Mickelson En	Water	TVH	07-JUN-2006
187086-006			Acton Mickelson En	Water	TVH	07-JUN-2006
187086-010			Acton Mickelson En	Water	TVH	07-JUN-2006
187087-002			Weston Solutions	Water	TVH	07-JUN-2006
187087-003			Weston Solutions	Water	TVH	07-JUN-2006
187087-004			Weston Solutions	Water	TVH	07-JUN-2006
187087-005			Weston Solutions	Water	TVH	07-JUN-2006
QC341628	BLANK			Water		
QC341629	LCS			Water		
QC341630	LCS			Water		
QC341708	MS	of 187086-001		Water		
QC341709	MSD	of 187086-001		Water		

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Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 113842
Date Started: 26-MAY-2006
Batched by : Micaela M. Perpetuo

Analysis : N/A
Bgroup : TVH
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
187065-001			Treadwell & Rollo	Water	TVH	07-JUN-2006
187065-002			Treadwell & Rollo	Water	MBTXE, TVH	07-JUN-2006
187065-003			Treadwell & Rollo	Water	MBTXE, TVH	07-JUN-2006
187065-004			Treadwell & Rollo	Water	TVH	07-JUN-2006
187065-005			Treadwell & Rollo	Water	TVH	07-JUN-2006
187065-006			Treadwell & Rollo	Water	TVH	07-JUN-2006
187065-008			Treadwell & Rollo	Water	MBTXE, TVH	07-JUN-2006
187065-009			Treadwell & Rollo	Water	TVH	07-JUN-2006
187065-010			Treadwell & Rollo	Water	MBTXE, TVH	07-JUN-2006
187065-014			Treadwell & Rollo	Water	TVH	07-JUN-2006
187065-015			Treadwell & Rollo	Water	MBTXE, TVH	07-JUN-2006
187065-016			Treadwell & Rollo	Water	MBTXE, TVH	07-JUN-2006
187065-017			Treadwell & Rollo	Water	MBTXE, TVH	07-JUN-2006
187075-001			Tetra Tech EC, INC	Water	BTXE, TVH	07-JUN-2006
187075-003			Tetra Tech EC, INC	Water	BTXE, TVH	07-JUN-2006
187075-004			Tetra Tech EC, INC	Water	BTXE, TVH	07-JUN-2006
187075-005			Tetra Tech EC, INC	Water	BTXE, TVH	07-JUN-2006
187075-006			Tetra Tech EC, INC	Water	BTXE, TVH	07-JUN-2006
187075-008			Tetra Tech EC, INC	Water	BTXE, TVH	07-JUN-2006
187095-001			Unitek Environment	Water	BTXE	08-JUN-2006
QC341631	BLANK			Water		
QC341632	BS			Water		
QC341633	LCS			Water		
QC341739	MS	of 187065-002		Water		
QC341740	MSD	of 187065-002		Water		
QC341741	BSD			Water		

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water
As of 06/22/06

Analyte	Units	GC04 A	GC04 J	GC05 G	GC07 A	GC19 X
Gasoline C6-C10	ug/L	6.7	6.2	4.8	10	21
Gasoline C6-C12	ug/L	5.5	6.8	4.5	14	21
Gasoline C7-C12	ug/L	4.8	7.2	4.2	15	27
JP-4 C7-C12	ug/L		12	9.9	19	4.6
Gasoline C6-C8	ug/L				7.0	
Gasoline C8-C10	ug/L				12	
Trifluorotoluene (FID)	ug/L	3.9			9.8	
Bromofluorobenzene (FID)	ug/L	5.2			7.5	

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8021B Water
As of 06/22/06

Analyte	Units	GC04 K	GC04 L	GC05 H	GC05 I	GC07 B	GC07 C	GC19 Y	GC19 Z
MTBE	ug/L	0.45	0.83	0.30	0.62	0.35	0.23	0.49	0.18
Benzene	ug/L	0.094	0.16	0.034	0.057	0.23	0.035	0.073	0.033
Toluene	ug/L	0.14	0.11	0.048	0.15	0.069	0.024	0.13	0.025
Ethylbenzene	ug/L	0.038	0.12	0.036	0.17	0.084	0.056	0.14	0.024
m,p-Xylenes	ug/L	0.10	0.21	0.030	0.17	0.090	0.027	0.13	0.039
o-Xylene	ug/L	0.12	0.10	0.083	0.19	0.13	0.040	0.15	0.015

TOTAL EXTRACTABLE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	05/24/06
Units:	ug/L	Received:	05/25/06
Diln Fac:	1.000	Prepared:	06/05/06
Batch#:	114123		

Field ID: 1065PZ1A
Type: SAMPLE
Lab ID: 187065-001

Analyzed: 06/07/06
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	106	65-135

Field ID: 1065PZ2A
Type: SAMPLE
Lab ID: 187065-002

Analyzed: 06/07/06
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	99	65-135

Field ID: 1065PZ4A
Type: SAMPLE
Lab ID: 187065-003

Analyzed: 06/07/06
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	88	65-135

Field ID: 1065MW101
Type: SAMPLE
Lab ID: 187065-004

Analyzed: 06/07/06
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	104	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	05/24/06
Units:	ug/L	Received:	05/25/06
Diln Fac:	1.000	Prepared:	06/05/06
Batch#:	114123		

Field ID:	1065MW102	Analyzed:	06/07/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	187065-005		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	104	65-135

Field ID:	231GW09	Analyzed:	06/07/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	187065-006		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	99	65-135

Field ID:	FM14EX07GW102	Analyzed:	06/08/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	187065-008		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	113	65-135

Field ID:	1213GW101	Analyzed:	06/08/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	187065-009		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	107	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	05/24/06
Units:	ug/L	Received:	05/25/06
Diln Fac:	1.000	Prepared:	06/05/06
Batch#:	114123		

Field ID: FM14EX07GW101
Type: SAMPLE
Lab ID: 187065-010

Analyzed: 06/08/06
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	107	65-135

Field ID: DUP-05242006
Type: SAMPLE
Lab ID: 187065-011

Analyzed: 06/08/06
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	99	65-135

Field ID: 1349MW100
Type: SAMPLE
Lab ID: 187065-012

Analyzed: 06/08/06
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C12-C24	3,600	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	119	65-135

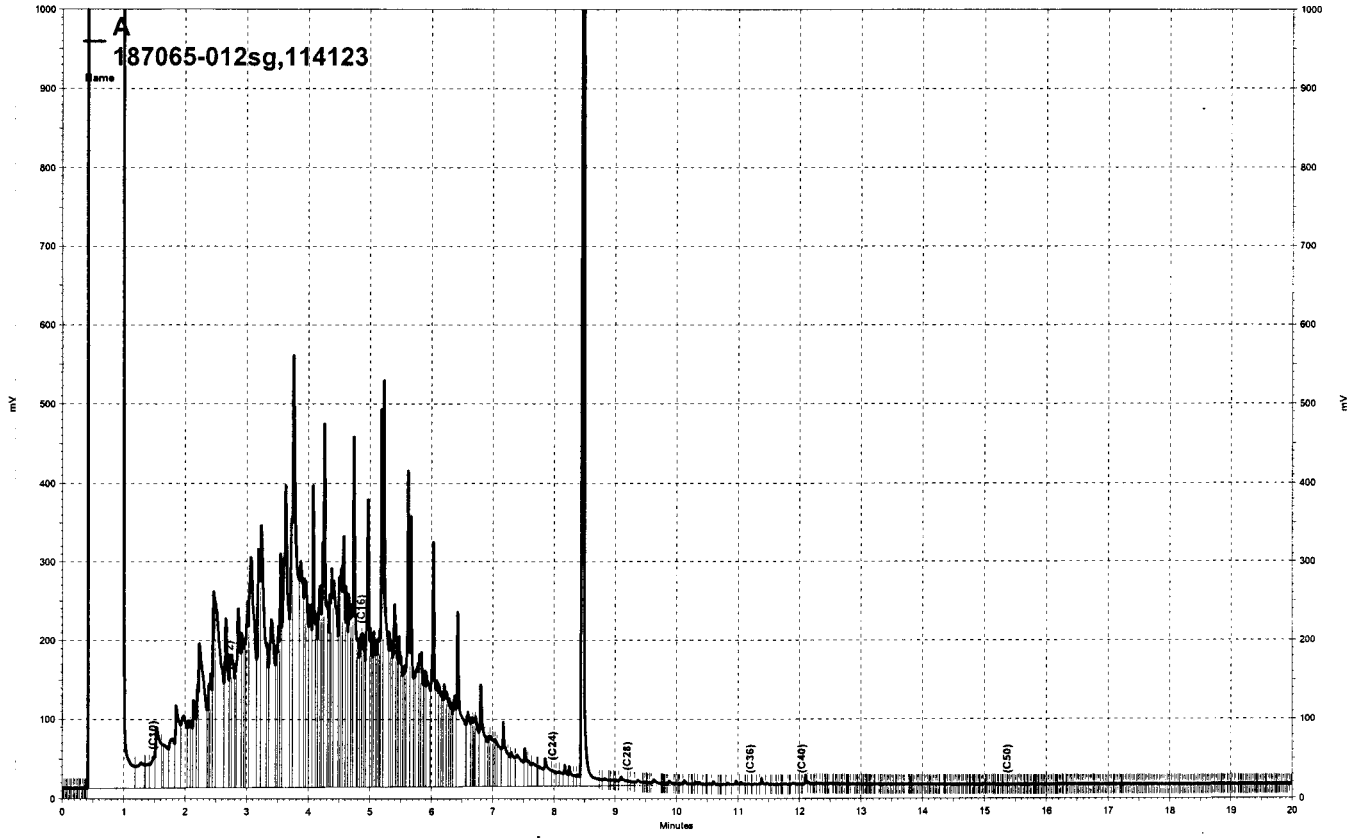
Field ID: DUP0524063A
Type: SAMPLE
Lab ID: 187065-013

Analyzed: 06/08/06
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C12-C24	5,200	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	98	65-135

ND= Not Detected
RL= Reporting Limit



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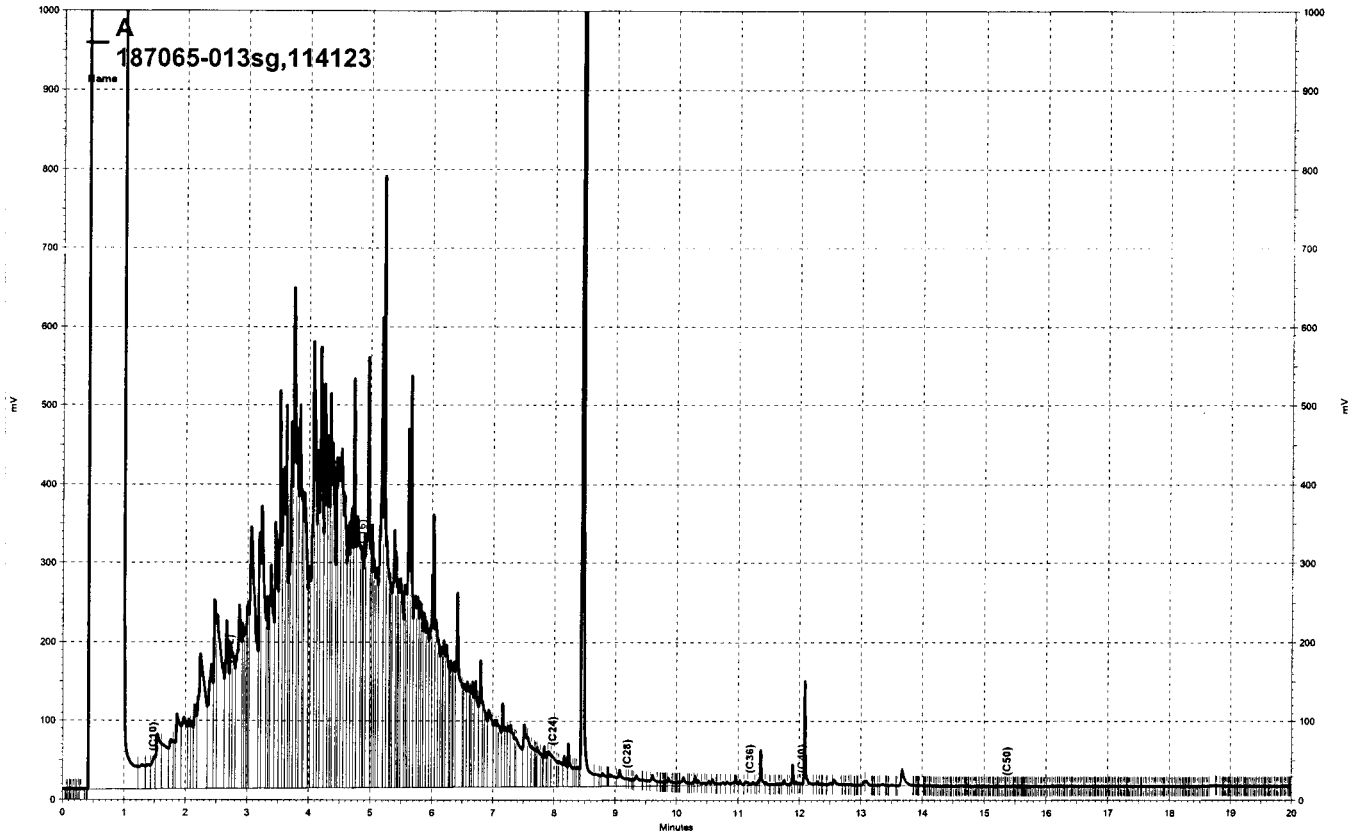

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DUP0524063A

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	05/24/06
Units:	ug/L	Received:	05/25/06
Diln Fac:	1.000	Prepared:	06/05/06
Batch#:	114123		

Field ID:	1065PZ1B	Analyzed:	06/08/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	187065-014		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	103	65-135

Field ID:	1065PZ5AR	Analyzed:	06/08/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	187065-015		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	108	65-135

Field ID:	1065MW9A	Analyzed:	06/08/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	187065-016		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	100	65-135

Field ID:	DUP0524063B	Analyzed:	06/08/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	187065-017		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	105	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

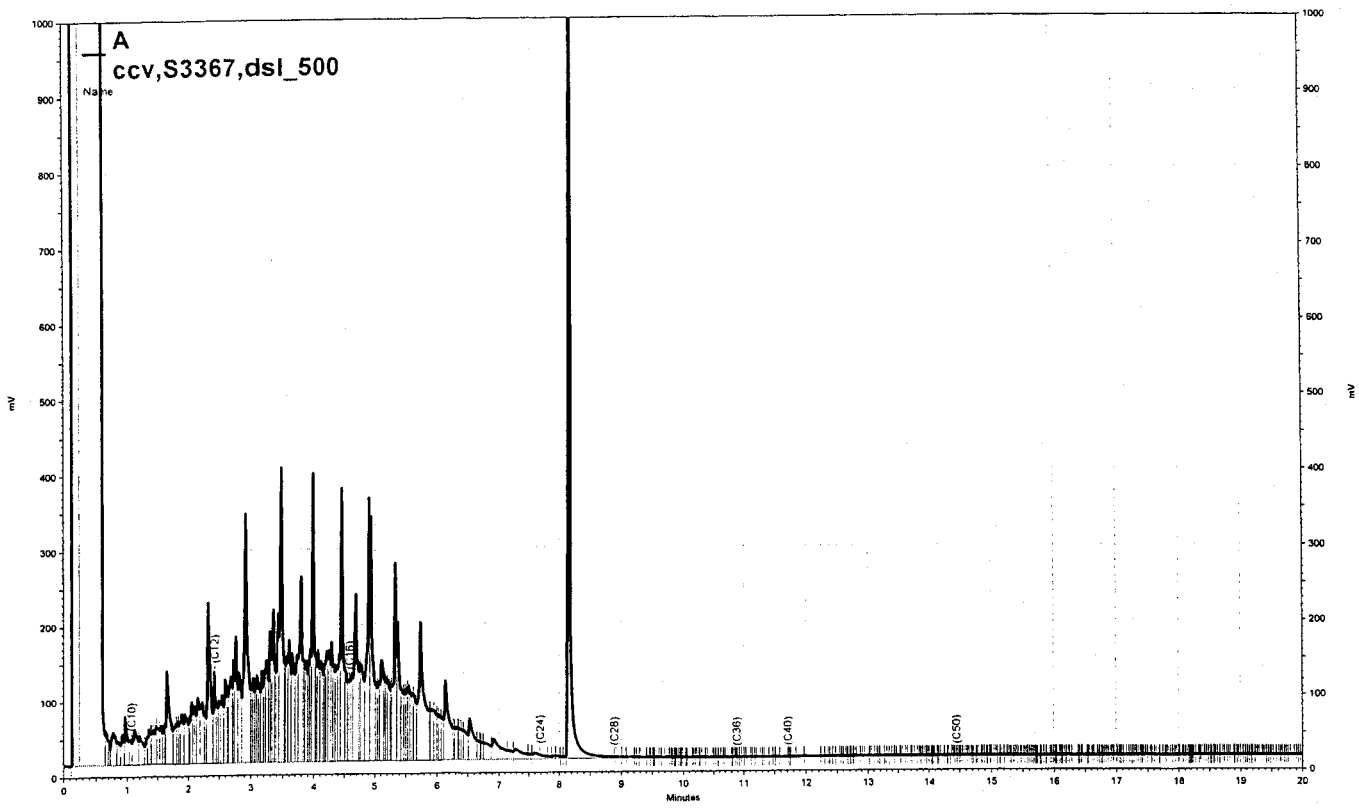
Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	05/24/06
Units:	ug/L	Received:	05/25/06
Diln Fac:	1.000	Prepared:	06/05/06
Batch#:	114123		

Type:	BLANK	Analyzed:	06/07/06
Lab ID:	QC342781	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	95	65-135

ND= Not Detected
RL= Reporting Limit



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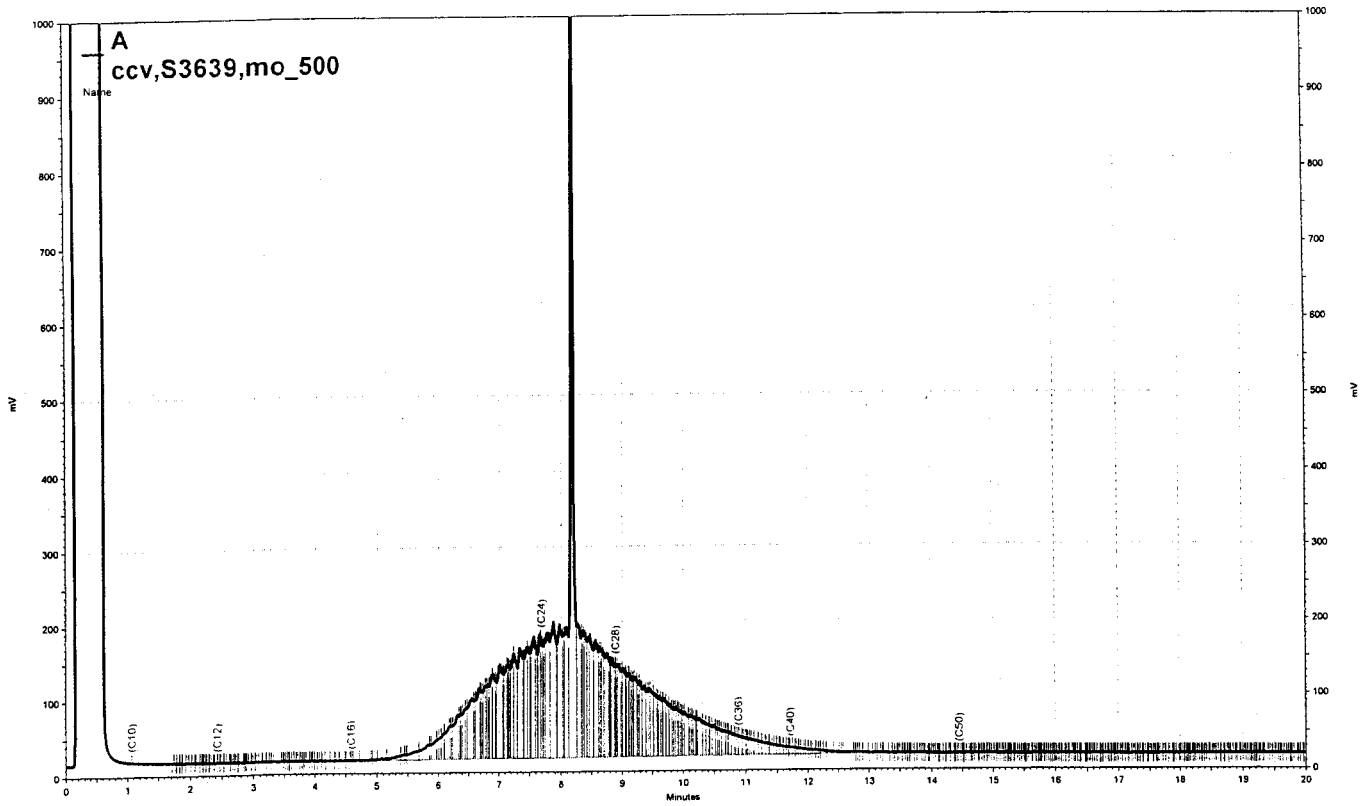
Diesel



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Motor Oil

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	114123
Units:	ug/L	Prepared:	06/05/06
Diln Fac:	1.000	Analyzed:	06/07/06

Type: BS
Lab ID: QC342782
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	2,500	2,111	84	65-135

Surrogate	%REC	Limits
Hexacosane	92	65-135

Type: BSD
Lab ID: QC342783
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,645	106	65-135	22	35

Surrogate	%REC	Limits
Hexacosane	115	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187065 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 116196127001
Units : mg/L

Name : gc11dlscal5/17/06
Date : 16-MAY-2006 18:31
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	136a011	116196127011	dsl_10	16-MAY-2006 18:31	S3433
L2	136a012	116196127012	dsl_100	16-MAY-2006 18:59	S3434
L3	136a013	116196127013	dsl_250	16-MAY-2006 19:26	S3435
L4	136a014	116196127014	dsl_500	16-MAY-2006 19:54	S3436
L5	136a015	116196127015	dsl_1000	16-MAY-2006 20:22	S3437
L6	136a016	116196127016	dsl_2500	16-MAY-2006 20:50	S3438
L7	136a017	116196127017	dsl_5000	16-MAY-2006 21:17	S3432

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	84938	63195	60889	59402	60415	59580	59197	AVRG		1.56E-5		63945	15	0.995	20	

86

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

116196127001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 187065 GCSV Water
EPA 8015B

Inst : GC11A
Calnum : 116196127001

Name : gc11dlscal5/17/06
Cal Date: 16-MAY-2006

ICV 116196127019 (136a019 16-MAY-2006) stds: S2708

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	63945	56486	500.0	441.7	mg/L	-12	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187065 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 116207810001
Units : mg/L

Name : MO_6-pts
Date : 24-MAY-2006 16:05
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	144a014	116207810014	mo_50	24-MAY-2006 16:05	S3326
L2	144a015	116207810015	mo_250	24-MAY-2006 16:33	S3327
L3	144a016	116207810016	mo_500	24-MAY-2006 17:01	S3328
L4	144a017	116207810017	mo_1000	24-MAY-2006 17:29	S3329
L5	144a018	116207810018	mo_2500	24-MAY-2006 17:56	S3330
L6	144a019	116207810019	mo_5000	24-MAY-2006 18:25	S3325

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	36526	37244	37973	38389	40292	39863	AVRG		2.61E-5		38381	4	0.995	20	

88

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

116207810001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187065 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 116206579001
Units : mg/L

Name : hexacosane
Date : 23-MAY-2006 19:42
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	143a011	116206579011	hex_5	23-MAY-2006 19:42	S2694
L2	143a012	116206579012	hex_10	23-MAY-2006 20:09	S2695
L3	143a013	116206579013	hex_25	23-MAY-2006 20:37	S2696
L4	143a014	116206579014	hex_50	23-MAY-2006 21:05	S2697
L5	143a015	116206579015	hex_75	23-MAY-2006 21:33	S2698

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	64179	70269	66074	63186	64146	AVRG		1.53E-5		65571	4	0.995	20	

89

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187065 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176147877001
Units : mg/L

Name : diesel
Date : 12-APR-2006 23:32
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	102a010	176147877010	dsl_10	12-APR-2006 23:32	S2961
L2	102a011	176147877011	dsl_100	12-APR-2006 23:59	S2938
L3	102a012	176147877012	dsl_250	13-APR-2006 00:27	S2939
L4	102a013	176147877013	dsl_500	13-APR-2006 00:54	S2983
L5	102a014	176147877014	dsl_1000	13-APR-2006 01:22	S2941
L6	102a015	176147877015	dsl_2500	13-APR-2006 01:49	S2942
L7	102a016	176147877016	dsl_5000	13-APR-2006 02:16	S2936

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	82591	74678	68711	62227	73614	66385	64708	AVRG		1.42E-5		70416	10	0.995	20	

90

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

176147877001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 187065 GCSV Water
EPA 8015B

Inst : GC17A
Calnum : 176147877001

Name : diesel
Cal Date: 12-APR-2006

ICV 176147877018 (102a018 13-APR-2006) stds: S2708

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	70416	64446	500.0	457.6	mg/L	-8	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187065 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176189135001
Units : mg/L

Name : Mo
Date : 11-MAY-2006 19:27
X Axis : R

Reviewer: CW

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	131a010	176189135010	mo_50	11-MAY-2006 19:27	S3326
L2	131a011	176189135011	mo_250	11-MAY-2006 19:55	S3327
L3	131a012	176189135012	mo_500	11-MAY-2006 20:22	S3328
L4	131a013	176189135013	mo_1000	11-MAY-2006 20:49	S3329
L5	131a014	176189135014	mo_2500	11-MAY-2006 21:16	S3330
L6	131a015	176189135015	mo_5000	11-MAY-2006 21:43	S3325

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	38300	44103	45195	50532	50230	46527	AVRG		2.18E-5		45815	10	0.995	20	

92

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187065 GCSV Water: EPA 8015B

Inst : GC17A
Calnum : 176147877003
Units : mg/L

Name : hexacosane
Date : 13-APR-2006 07:43
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	102a028	176147877028	hex_5	13-APR-2006 07:43	S2694
L2	102a029	176147877029	hex_10	13-APR-2006 08:11	S2695
L3	102a030	176147877030	hex_25	13-APR-2006 08:38	S2696
L4	102a031	176147877031	hex_50	13-APR-2006 09:06	S2697
L5	102a032	176147877032	hex_75	13-APR-2006 09:33	S2698

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	80120	78656	87108	78721	84794	AVRG		1.22E-5		81880	5	0.995	20	

93

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CONTINUING CALIBRATION SUMMARY FOR 187065 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116226958051	07-JUN-2006 15:47	116196127001	16-MAY-2006	63945	60071	500.00	469.71	mg/L	-6	15	
GC11A	A	116226958064	07-JUN-2006 22:00	116196127001	16-MAY-2006	63945	60143	1000.0	940.54	mg/L	-6	15	
GC17A	A	176229888003	08-JUN-2006 16:22	176147877001	12-APR-2006	70416	70453	1000.0	1000.5	mg/L	0	15	
GC17A	A	176229888018	08-JUN-2006 23:31	176147877001	12-APR-2006	70416	70545	250.00	250.46	mg/L	0	15	

CONTINUING CALIBRATION SUMMARY FOR 187065 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116226958052	07-JUN-2006 16:15	116207810001	24-MAY-2006	38381	37827	500.00	492.78	mg/L	-1	15	
GC11A	A	116226958065	07-JUN-2006 22:28	116207810001	24-MAY-2006	38381	38605	500.00	502.91	mg/L	1	15	
GC17A	A	176229888004	08-JUN-2006 16:49	176189135001	11-MAY-2006	45815	51967	500.00	567.15	mg/L	13	15	
GC17A	A	176229888019	08-JUN-2006 23:59	176189135001	11-MAY-2006	45815	51208	500.00	558.87	mg/L	12	15	

CONTINUING CALIBRATION SUMMARY FOR 187065 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116226958051	07-JUN-2006 15:47	116206579001	23-MAY-2006	65571	67455	50.000	51.437	mg/L	3	15	
GC11A	A	116226958064	07-JUN-2006 22:00	116206579001	23-MAY-2006	65571	66934	50.000	51.040	mg/L	2	15	
GC17A	A	176229888003	08-JUN-2006 16:22	176147877003	13-APR-2006	81880	93160	50.000	56.888	mg/L	14	15	
GC17A	A	176229888018	08-JUN-2006 23:31	176147877003	13-APR-2006	81880	86587	50.000	52.874	mg/L	6	15	

SEQUENCE SUMMARY FOR 187065 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176147877 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 12-APR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	102a001	X	Primer			12-APR-2006 16:37	1.0						
002	102a002	X	ib			12-APR-2006 17:04	1.0						
003	102a003	X	c10			12-APR-2006 17:32	1.0						
004	102a004	X	c12-50			12-APR-2006 18:00	1.0						
005	102a005	CCV	mo_500			12-APR-2006 18:27	1.0	1.0	3		3	1	
006	102a006	CCV	dsl_1000			12-APR-2006 18:55	1.0	1.0	3		3	2	
007	102a007	X	ib			12-APR-2006 22:10	1.0						
008	102a008	X	ib			12-APR-2006 22:37	1.0						
009	102a009	X	ib			12-APR-2006 23:04	1.0						
010	102a010	ICAL	dsl_10			12-APR-2006 23:32	1.0	1.0				3	
011	102a011	ICAL	dsl_100			12-APR-2006 23:59	1.0	1.0				4	
012	102a012	ICAL	dsl_250			13-APR-2006 00:27	1.0	1.0				5	
013	102a013	ICAL	dsl_500			13-APR-2006 00:54	1.0	1.0				6	
014	102a014	ICAL	dsl_1000			13-APR-2006 01:22	1.0	1.0				7	
015	102a015	ICAL	dsl_2500			13-APR-2006 01:49	1.0	1.0				8	97
016	102a016	ICAL	dsl_5000			13-APR-2006 02:16	1.0	1.0				9	
017	102a017	X	ib			13-APR-2006 02:43	1.0						
018	102a018	ICV				13-APR-2006 03:11	1.0	1.0			3	10	
019	102a019	X	ib			13-APR-2006 03:38	1.0						
020	102a020	ICAL	mo_50			13-APR-2006 04:05	1.0	1.0				11	
021	102a021	ICAL	mo_250			13-APR-2006 04:33	1.0	1.0				12	
022	102a022	ICAL	mo_500			13-APR-2006 05:00	1.0	1.0				13	
023	102a023	ICAL	mo_1000			13-APR-2006 05:27	1.0	1.0				14	
024	102a024	ICAL	mo_2500			13-APR-2006 05:54	1.0	1.0				15	
025	102a025	ICAL	mo_5000			13-APR-2006 06:22	1.0	1.0				16	
026	102a026	X	ib			13-APR-2006 06:49	1.0						
027	102a027	X	ib			13-APR-2006 07:16	1.0						
028	102a028	ICAL	hex_5			13-APR-2006 07:43	1.0	1.0				17	
029	102a029	ICAL	hex_10			13-APR-2006 08:11	1.0	1.0				18	
030	102a030	ICAL	hex_25			13-APR-2006 08:38	1.0	1.0				19	

Stds used: 1=S2971 2=S3158 3=S2961 4=S2938 5=S2939 6=S2983 7=S2941 8=S2942 9=S2936 10=S2708 11=S2118 12=S2119 13=S2120 14=S2121 15=S2122 16=S2117 17=S2694 18=S2695 19=S2696 20=S2697 21=S2698 22=S3131 23=S3048

SEQUENCE SUMMARY FOR 187065 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176147877 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 12-APR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
031	102a031	ICAL	hex_50			13-APR-2006 09:06	1.0	1.0				20	
032	102a032	ICAL	hex_75			13-APR-2006 09:33	1.0	1.0				21	
033	102a033	X	ib			13-APR-2006 10:01	1.0						
034	102a034	CCV	mo_500			13-APR-2006 10:28	1.0	1.0			3	1	
035	102a035	CCV	dsl_500			13-APR-2006 10:55	1.0	1.0			3	22	
036	102a036	SAMPLE	186067-001	112312	Soil	13-APR-2006 15:10	1.0	0.1008			3		
037	102a037	SAMPLE	186067-004	112312	Soil	13-APR-2006 15:37	1.0	0.1009			3		
038	102a038	SAMPLE	186067-006	112312	Soil	13-APR-2006 16:05	1.0	0.1001	1		3	14:BUNKC:=45721.0	
039	102a039	X	ib			13-APR-2006 16:32	1.0						
040	102a040	SAMPLE	186067-008	112312	Soil	13-APR-2006 17:00	1.0	0.1000	1		3	14:BUNKC:=90714.4	
041	102a041	SAMPLE	186067-007	112312	Soil	13-APR-2006 17:27	1.0	0.0995			3	3:BUNKC:=12142.2	
042	102a042	SAMPLE	186067-009	112312	Soil	13-APR-2006 17:54	1.0	0.0995	1		3	14:BUNKC:=101945	
043	102a043	SAMPLE	186067-012	112312	Soil	13-APR-2006 18:22	1.0	0.09929	1		3	14:BUNKC:=153174	
044	102a044	X	ib			13-APR-2006 18:49	1.0						
045	102a045	SAMPLE	186067-011	112312	Soil	13-APR-2006 19:17	5.0	0.0998	1		3	14:BUNKC:=68578.0	
046	102a046	SAMPLE	186067-010	112312	Soil	13-APR-2006 19:44	5.0	0.09923	1		3	14:BUNKC:=30825.7	
047	102a047	SAMPLE	186067-005	112312	Soil	13-APR-2006 20:11	1.0	0.1006	2		3	20:BUNKC:=40037.7	
048	102a048	X	ib			13-APR-2006 20:39	1.0						
049	102a049	CCV	mo_500			13-APR-2006 21:06	1.0	1.0			3	1	
050	102a050	CCV	dsl_1000			13-APR-2006 21:33	1.0	1.0			3	2	
051	102a051	X	dsl_1000			13-APR-2006 22:01	1.0					2	
052	102a052	X	mo_500			13-APR-2006 22:28	1.0	1.0		1	3	1	
053	102a053	SAMPLE	186067-003	112312	Soil	13-APR-2006 22:56	2.0	0.101	1		3		
054	102a054	SAMPLE	186045-005	112312	Soil	13-APR-2006 23:23	50.0	0.1003	1		3		
055	102a055	X	ib			13-APR-2006 23:50	1.0						
056	102a056	LCS	QC335509 S	112312	Soil	14-APR-2006 00:18	1.0	0.09994			3		
057	102a057	BLANK	QC335508 S	112312	Soil	14-APR-2006 00:46	1.0	0.09944	13		3		
058	102a058	X	185948-008 S	112312	Soil	14-APR-2006 01:13	1.0	0.0996	13		3		
059	102a059	MS	QC335510 S	112312	Soil	14-APR-2006 01:41	1.0	0.09984			3		
060	102a060	MSD	QC335511 S	112312	Soil	14-APR-2006 02:08	1.0	0.09962			3		

Stds used: 1=S2971 2=S3158 3=S2961 4=S2938 5=S2939 6=S2983 7=S2941 8=S2942 9=S2936 10=S2708 11=S2118 12=S2119 13=S2120 14=S2121 15=S2122 16=S2117 17=S2694 18=S2695 19=S2696 20=S2697 21=S2698 22=S3131 23=S3048

SEQUENCE SUMMARY FOR 187065 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176147877 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 12-APR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
061	102a061	X	ib			14-APR-2006 02:36	1.0					
062	102a062	SAMPLE	185948-004 S	112312	Soil	14-APR-2006 03:04	1.0	0.1000	1	3		
063	102a063	SAMPLE	185948-003 S	112312	Soil	14-APR-2006 03:31	1.0	0.1007	1	3		
064	102a064	SAMPLE	185948-002 S	112312	Soil	14-APR-2006 03:59	20.0	0.09952	1	3		
065	102a065	X	ib			14-APR-2006 04:26	1.0					
066	102a066	CCV	mo_500			14-APR-2006 04:53	1.0	1.0	6	3	1	
067	102a067	CCV	dsl_250			14-APR-2006 05:21	1.0	1.0		3	23	
068	102a068	X	mo_500			14-APR-2006 05:48	1.0	1.0	6	3	1	
069	102a069	X	ccv			14-APR-2006 06:16	1.0				23	
070	102a070	SAMPLE	185948-006 S	112312	Soil	14-APR-2006 06:43	20.0	0.1996	1	3		
071	102a071	SAMPLE	185948-007 S	112312	Soil	14-APR-2006 07:11	50.0	0.0994	1	3		
072	102a072	X	ib			14-APR-2006 07:38	1.0					

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Stds used: 1=S2971 2=S3158 3=S2961 4=S2938 5=S2939 6=S2983 7=S2941 8=S2942 9=S2936 10=S2708 11=S2118 12=S2119 13=S2120 14=S2121 15=S2122 16=S2117 17=S2694 18=S2695 19=S2696 20=S2697 21=S2698 22=S3131 23=S3048

SEQUENCE SUMMARY FOR 187065 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176189135 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 11-MAY-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	131a001	X	Primer			11-MAY-2006 08:15	1.0						
002	131a002	X	ib			11-MAY-2006 08:42	1.0						
003	131a003	X	mo_500			11-MAY-2006 09:09	1.0	1.0	3		3	1	
004	131a004	X	dsl_500			11-MAY-2006 09:37	1.0	1.0			3	2	
005	131a005	X	mo_500			11-MAY-2006 10:38	1.0	1.0			3	3	
006	131a006	X	mo_500			11-MAY-2006 17:17	1.0	1.0	3		3	3	
007	131a007	CCV	dsl_1000			11-MAY-2006 17:44	1.0	1.0			3	4	
008	131a008	CCV	mo_500			11-MAY-2006 18:20	1.0	1.0	3		3	3	
009	131a009	X	ib			11-MAY-2006 19:00	1.0						
010	131a010	ICAL	mo_50			11-MAY-2006 19:27	1.0	1.0				5	
011	131a011	ICAL	mo_250			11-MAY-2006 19:55	1.0	1.0				6	
012	131a012	ICAL	mo_500			11-MAY-2006 20:22	1.0	1.0				7	
013	131a013	ICAL	mo_1000			11-MAY-2006 20:49	1.0	1.0				8	
014	131a014	ICAL	mo_2500			11-MAY-2006 21:16	1.0	1.0				9	
015	131a015	ICAL	mo_5000			11-MAY-2006 21:43	1.0	1.0				10	100
016	131a016	X	ib			11-MAY-2006 22:11	1.0						
017	131a017	CCV	mo_500			11-MAY-2006 22:38	1.0	1.0			3	3	
018	131a018	CCV	dsl_250			11-MAY-2006 23:05	1.0	1.0			3	11	
019	131a019	SAMPLE	186609-002 S	113222	Water	11-MAY-2006 23:44	1.0	0.005			3		
020	131a020	SAMPLE	186575-001 S	113251	Soil	12-MAY-2006 00:12	1.0	0.1006			3		
021	131a021	SAMPLE	186575-002 S	113251	Soil	12-MAY-2006 00:39	1.0	0.1003			3		
022	131a022	SAMPLE	186575-003 S	113251	Soil	12-MAY-2006 01:06	1.0	0.1007		1	3		
023	131a023	SAMPLE	186575-004 S	113251	Soil	12-MAY-2006 01:34	1.0	0.09992			3		
024	131a024	SAMPLE	186575-005 S	113251	Soil	12-MAY-2006 02:01	1.0	0.101			3		
025	131a025	SAMPLE	186575-006 S	113251	Soil	12-MAY-2006 02:28	1.0	0.1000			3		
026	131a026	SAMPLE	186649-001	113307	Soil	12-MAY-2006 02:56	1.0	0.1005			3		
027	131a027	SAMPLE	186649-002	113307	Soil	12-MAY-2006 03:23	1.0	0.1007			3		
028	131a028	X	ib			12-MAY-2006 03:50	1.0						
029	131a029	CCV	mo_500			12-MAY-2006 04:18	1.0	1.0			3	3	
030	131a030	CCV	dsl_500			12-MAY-2006 04:45	1.0	1.0			3	2	

Stds used: 1=S3309 2=S3367 3=S3404 4=S3368 5=S3326 6=S3327 7=S3328 8=S3329 9=S3330 10=S3325 11=S3366

SEQUENCE SUMMARY FOR 187065 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116196127 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 16-MAY-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	136a001	X	primer			16-MAY-2006 04:47	1.0					
002	136a002	X	ib			16-MAY-2006 05:15	1.0					
003	136a003	CCV	mo_500			16-MAY-2006 05:43	1.0	1.0		3	1	
004	136a004	CCV	dsl_500			16-MAY-2006 06:10	1.0	1.0		3	2	
005	136a005	X	ccv			16-MAY-2006 06:38	1.0				2	
006	136a006	SAMPLE	186575-003 S	113251	Soil	16-MAY-2006 11:14	1.0	0.1007		3		
007	136a007	SAMPLE	186711-005	113445	Water	16-MAY-2006 11:42	1.0	0.005		3		
008	136a008	CCV	mo_500			16-MAY-2006 12:10	1.0	1.0		3	1	
009	136a009	CCV	dsl_1000			16-MAY-2006 12:38	1.0	1.0		3	3	
010	136a010	X	ib			16-MAY-2006 18:03	1.0					
011	136a011	ICAL	dsl_10			16-MAY-2006 18:31	1.0	1.0			4	
012	136a012	ICAL	dsl_100			16-MAY-2006 18:59	1.0	1.0			5	
013	136a013	ICAL	dsl_250			16-MAY-2006 19:26	1.0	1.0			6	
014	136a014	ICAL	dsl_500			16-MAY-2006 19:54	1.0	1.0			7	
015	136a015	ICAL	dsl_1000			16-MAY-2006 20:22	1.0	1.0			8	101
016	136a016	ICAL	dsl_2500			16-MAY-2006 20:50	1.0	1.0			9	
017	136a017	ICAL	dsl_5000			16-MAY-2006 21:17	1.0	1.0			10	
018	136a018	X	ib			16-MAY-2006 21:45	1.0					
019	136a019	ICV	dsl_500			16-MAY-2006 22:13	1.0	1.0		3	11	
020	136a020	X	ib			16-MAY-2006 22:41	1.0					
021	136a021	ICAL	jp5_10			16-MAY-2006 23:09	1.0	1.0			12	
022	136a022	ICAL	jp5_100			16-MAY-2006 23:37	1.0	1.0			13	
023	136a023	ICAL	jp5_500			17-MAY-2006 00:05	1.0	1.0			14	
024	136a024	ICAL	jp5_1500			17-MAY-2006 00:33	1.0	1.0			15	
025	136a025	ICAL	jp5_3000			17-MAY-2006 01:01	1.0	1.0			16	
026	136a026	X	jp5_5000			17-MAY-2006 01:29	1.0				17	
027	136a027	X	ib			17-MAY-2006 01:57	1.0					
028	136a028	X	ib			17-MAY-2006 02:25	1.0					
029	136a029	ICAL	jp8_10			17-MAY-2006 02:53	1.0	1.0			18	
030	136a030	ICAL	jp8_100			17-MAY-2006 03:20	1.0	1.0			19	

Stds used: 1=S3404 2=S3367 3=S3368 4=S3433 5=S3434 6=S3435 7=S3436 8=S3437 9=S3438 10=S3432 11=S2708 12=S2382 13=S2383 14=S2384 15=S2385 16=S2386 17=S2259 18=S3462 19=S3463 20=S3464 21=S3465 22=S3466 23=S3461

SEQUENCE SUMMARY FOR 187065 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116196127 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 16-MAY-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
031	136a031	ICAL	jp8_500			17-MAY-2006 03:48	1.0	1.0		20	
032	136a032	ICAL	jp8_1500			17-MAY-2006 04:17	1.0	1.0		21	
033	136a033	ICAL	jp8_3000			17-MAY-2006 04:45	1.0	1.0		22	
034	136a034	X	jp8_5000			17-MAY-2006 05:13	1.0			23	
035	136a035	X	ib			17-MAY-2006 05:40	1.0				

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Stds used: 1=S3404 2=S3367 3=S3368 4=S3433 5=S3434 6=S3435 7=S3436 8=S3437 9=S3438 10=S3432 11=S2708 12=S2382 13=S2383 14=S2384 15=S2385 16=S2386 17=S2259 18=S3462 19=S3463 20=S3464 21=S3465 22=S3466 23=S3461

SEQUENCE SUMMARY FOR 187065 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116206579 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 23-MAY-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	143a001	X	primer			23-MAY-2006 10:59	1.0							
002	143a002	X	ib			23-MAY-2006 11:34	1.0							
003	143a003	X	ib			23-MAY-2006 12:45	1.0							
004	143a004	X	ib			23-MAY-2006 13:21	1.0							
005	143a005	X	ib			23-MAY-2006 13:49	1.0							
006	143a006	X	ib			23-MAY-2006 14:17	1.0							
007	143a007	CCV	mo_500			23-MAY-2006 14:45	1.0			3			1	
008	143a008	CCV	dsl_500			23-MAY-2006 15:13	1.0			3			2	
009	143a009	X	ib			23-MAY-2006 18:46	1.0							
010	143a010	X	ib			23-MAY-2006 19:14	1.0							
011	143a011	ICAL	hex_5			23-MAY-2006 19:42	1.0						3	
012	143a012	ICAL	hex_10			23-MAY-2006 20:09	1.0						4	
013	143a013	ICAL	hex_25			23-MAY-2006 20:37	1.0						5	
014	143a014	ICAL	hex_50			23-MAY-2006 21:05	1.0						6	
015	143a015	ICAL	hex_75			23-MAY-2006 21:33	1.0						7	
016	143a016	X	ib			23-MAY-2006 22:01	1.0							

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Stds used: 1=S3404 2=S3367 3=S2694 4=S2695 5=S2696 6=S2697 7=S2698

SEQUENCE SUMMARY FOR 187065 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116207810 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 24-MAY-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	144a001	X	primer			24-MAY-2006 07:30	1.0						
002	144a002	X	ib			24-MAY-2006 08:33	1.0						
003	144a003	CCV	mo_500			24-MAY-2006 09:01	1.0	1.0	3		3	1	
004	144a004	CCV	dsl_500			24-MAY-2006 09:29	1.0	1.0			3	2	
005	144a005	X	c10			24-MAY-2006 10:23	20.0						
006	144a006	X	c12-c60			24-MAY-2006 10:51	1.0						
007	144a007	XCCV	dsl_250			24-MAY-2006 11:42	1.0	1.0			3	3	
008	144a008	CCV	mo_500			24-MAY-2006 12:10	1.0	1.0	2		3	1	
009	144a009	CCV	dsl_500			24-MAY-2006 12:58	1.0	1.0			3	2	
010	144a010	SAMPLE	186881-002 S	113605	Soil	24-MAY-2006 13:26	1.0	0.1000			3		
011	144a011	CCV	mo_500			24-MAY-2006 14:06	1.0	1.0	1		3	1	
012	144a012	CCV	dsl_1000			24-MAY-2006 14:33	1.0	1.0			3	4	
013	144a013	X	ib			24-MAY-2006 15:37	1.0						
014	144a014	ICAL	mo_50			24-MAY-2006 16:05	1.0	1.0				5	
015	144a015	ICAL	mo_250			24-MAY-2006 16:33	1.0	1.0				6	104
016	144a016	ICAL	mo_500			24-MAY-2006 17:01	1.0	1.0				7	
017	144a017	ICAL	mo_1000			24-MAY-2006 17:29	1.0	1.0				8	
018	144a018	ICAL	mo_2500			24-MAY-2006 17:56	1.0	1.0				9	
019	144a019	ICAL	mo_5000			24-MAY-2006 18:25	1.0	1.0				10	
020	144a020	X	ib			24-MAY-2006 18:52	1.0						
021	144a021	CCV	dsl_500			24-MAY-2006 19:20	1.0	1.0			3	2	
022	144a022	CCV	mo_500			24-MAY-2006 19:48	1.0	1.0			3	1	
023	144a023	CCV	ker_250			24-MAY-2006 20:16	1.0	1.0			3	11	
024	144a024	CCV	hyfl_1250			24-MAY-2006 20:44	1.0	1.0			3	12	
025	144a025	BLANK	QC341186 S	113728	Soil	24-MAY-2006 21:46	1.0	0.1003	6		3		
026	144a026	LCS	QC341187 S	113728	Soil	24-MAY-2006 22:14	1.0	0.1002			3		
027	144a027	MSS	186961-001	113728	Soil	24-MAY-2006 22:42	1.0	0.1001	6		3		
028	144a028	MS	QC341188	113728	Soil	24-MAY-2006 23:10	1.0	0.1001		1	3		
029	144a029	MSD	QC341189	113728	Soil	24-MAY-2006 23:38	1.0	0.1003		1	3		
030	144a030	X	ib			25-MAY-2006 00:06	1.0						
031	144a031	BLANK	QC341022 S	113681	Water	25-MAY-2006 00:34	1.0	0.005	6		3		

Stds used: 1=S3404 2=S3367 3=S3366 4=S3368 5=S3326 6=S3327 7=S3328 8=S3329 9=S3330 10=S3325 11=S3508 12=S2429

SEQUENCE SUMMARY FOR 187065 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116207810 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 24-MAY-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	144a032	LCS	QC341023 S	113681	Water	25-MAY-2006 01:02	1.0	0.005			3		
033	144a033	MSS	186908-003	113681	Water	25-MAY-2006 01:30	1.0	0.005	6		3		
034	144a034	MS	QC341024	113681	Water	25-MAY-2006 01:58	1.0	0.005			3		
035	144a035	MSD	QC341025	113681	Water	25-MAY-2006 02:26	1.0	0.005			3		
036	144a036	CCV	dsl_1000			25-MAY-2006 02:54	1.0	1.0			3	4	
037	144a037	CCV	mo_500			25-MAY-2006 03:22	1.0	1.0			3	1	
038	144a038	CCV	ker_250			25-MAY-2006 03:50	1.0	1.0			3	11	
039	144a039	CCV	hyfl_1250			25-MAY-2006 04:18	1.0	1.0			3	12	
040	144a040	X	ccv			25-MAY-2006 04:46	1.0					4	
041	144a041	SAMPLE	186935-001	113728	Soil	25-MAY-2006 05:14	1.0	0.1001			3		
042	144a042	SAMPLE	186935-002	113728	Soil	25-MAY-2006 05:42	1.0	0.1003			3		
043	144a043	SAMPLE	186902-001	113681	Water	25-MAY-2006 06:10	5.0	0.005			3		
044	144a044	SAMPLE	186902-002	113681	Water	25-MAY-2006 06:38	5.0	0.005	1	1	3		3:BUNKC:=5270.47
045	144a045	X	ib			25-MAY-2006 07:06	1.0						
046	144a046	CCV	mo_500			25-MAY-2006 08:36	1.0	1.0			3	1	
047	144a047	CCV	dsl_250			25-MAY-2006 09:03	1.0	1.0			3	3	
048	144a048	CCV	ker_250			25-MAY-2006 09:31	1.0	1.0			3	11	
049	144a049	CCV	hyfl_1250			25-MAY-2006 09:59	1.0	1.0			3	12	
050	144a050	SAMPLE	187028-005	113771	Soil	25-MAY-2006 10:58	2.0	0.09956			3		4:BUNKC:=8908.76
051	144a051	SAMPLE	186902-002	113681	Water	25-MAY-2006 11:26	10.0	0.005			3		
052	144a052	CCV	mo_500			25-MAY-2006 12:04	1.0	1.0			3	1	
053	144a053	CCV	dsl_500			25-MAY-2006 12:32	1.0	1.0			3	2	
054	144a054	CCV	ker_250			25-MAY-2006 13:00	1.0	1.0			3	11	

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Stds used: 1=S3404 2=S3367 3=S3366 4=S3368 5=S3326 6=S3327 7=S3328 8=S3329 9=S3330 10=S3325 11=S3508 12=S2429

SEQUENCE SUMMARY FOR 187065 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116226958 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 06-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	157a001	X	PRIMER			06-JUN-2006 14:38	1.0						
002	157a002	X	IB			06-JUN-2006 15:06	1.0						
003	157a003	CCV	DSL_500			06-JUN-2006 15:34	1.0	1.0			3	1	
004	157a004	CCV	MO_500			06-JUN-2006 16:02	1.0	1.0			3	2	
005	157a005	BLANK	QC342790	114126	Soil	06-JUN-2006 17:05	1.0	0.09917	8		3		
006	157a006	LCS	QC342791	114126	Soil	06-JUN-2006 17:33	1.0	0.09962			3		
007	157a007	MSS	187151-002	114126	Soil	06-JUN-2006 18:01	3.0	0.1002	8		3		
008	157a008	MS	QC342792	114126	Soil	06-JUN-2006 18:29	3.0	0.1007		2	3		
009	157a009	MSD	QC342793	114126	Soil	06-JUN-2006 18:57	3.0	0.1006		2	3		
010	157a010	X	IB			06-JUN-2006 19:25	1.0						
011	157a011	SAMPLE	187151-001	114126	Soil	06-JUN-2006 19:52	2.0	0.1001		1	3		
012	157a012	SAMPLE	187151-003	114126	Soil	06-JUN-2006 20:21	2.0	0.1002			3		
013	157a013	SAMPLE	187151-004	114126	Soil	06-JUN-2006 20:48	3.0	0.1001			3		
014	157a014	X	IB			06-JUN-2006 21:16	1.0						
015	157a015	SAMPLE	187151-005	114126	Soil	06-JUN-2006 21:44	3.0	0.1004			3		
016	157a016	SAMPLE	187151-006	114126	Soil	06-JUN-2006 22:12	3.0	0.1008			3		
017	157a017	X	IB			06-JUN-2006 22:40	1.0						
018	157a018	CCV	DSL_1000			06-JUN-2006 23:08	1.0	1.0			3	3	
019	157a019	CCV	MO_500			06-JUN-2006 23:36	1.0	1.0			3	2	
020	157a020	X	CCV			07-JUN-2006 00:04	1.0					3	
021	157a021	X	CCV			07-JUN-2006 00:32	1.0					2	
022	157a022	SAMPLE	187151-007	114126	Soil	07-JUN-2006 01:00	3.0	0.1005			3		
023	157a023	SAMPLE	187151-008	114126	Soil	07-JUN-2006 01:28	3.0	0.1002			3		
024	157a024	SAMPLE	187151-009	114126	Soil	07-JUN-2006 01:56	5.0	0.1001			3		
025	157a025	SAMPLE	187151-010	114126	Soil	07-JUN-2006 02:24	5.0	0.1005			3		
026	157a026	SAMPLE	187151-011	114126	Soil	07-JUN-2006 02:51	3.0	0.1002			3		
027	157a027	X	IB			07-JUN-2006 03:19	1.0						
028	157a028	SAMPLE	187151-012	114126	Soil	07-JUN-2006 03:47	2.0	0.1000			3		
029	157a029	SAMPLE	187151-013	114126	Soil	07-JUN-2006 04:15	5.0	0.1006			3		
030	157a030	SAMPLE	187151-014	114126	Soil	07-JUN-2006 04:43	3.0	0.1001			3		
031	157a031	SAMPLE	187151-015	114126	Soil	07-JUN-2006 05:11	5.0	0.1002			3		

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Stds used: 1=S3367 2=S3639 3=S3368 4=S3366 5=S3623

SEQUENCE SUMMARY FOR 187065 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116226958 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 06-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	157a032	SAMPLE	187151-016	114126	Soil	07-JUN-2006 05:39	3.0	0.1003			3		
033	157a033	X	IB			07-JUN-2006 06:07	1.0						
034	157a034	CCV	DSL_250			07-JUN-2006 06:35	1.0	1.0			3	4	
035	157a035	CCV	MO_500			07-JUN-2006 07:03	1.0	1.0			3	2	
036	157a036	X	CCV			07-JUN-2006 07:31	1.0					4	
037	157a037	X	CCV			07-JUN-2006 07:59	1.0					2	
038	157a038	SAMPLE	187151-017	114126	Soil	07-JUN-2006 08:27	3.0	0.1005			3		
039	157a039	SAMPLE	187151-018	114126	Soil	07-JUN-2006 08:54	5.0	0.1001			3		
040	157a040	SAMPLE	187151-019	114126	Soil	07-JUN-2006 09:22	5.0	0.1007			3		
041	157a041	SAMPLE	187151-020	114126	Soil	07-JUN-2006 09:50	5.0	0.1005			3		
042	157a042	X	IB			07-JUN-2006 10:19	1.0						
043	157a043	SAMPLE	187151-001	114126	Soil	07-JUN-2006 10:46	2.0	0.1001		1	3		
044	157a044	SAMPLE	187151-022	114155	Soil	07-JUN-2006 12:31	1.0	0.1004			3		
045	157a045	SAMPLE	187151-024	114155	Soil	07-JUN-2006 12:59	1.0	0.1001			3		
046	157a046	X	IB			07-JUN-2006 13:27	1.0						
047	157a047	SAMPLE	187151-021	114155	Soil	07-JUN-2006 13:55	1.0	0.1006			3		
048	157a048	SAMPLE	187151-023	114155	Soil	07-JUN-2006 14:23	2.0	0.1004			3		
049	157a049	X	IB			07-JUN-2006 14:51	1.0						
050	157a050	SAMPLE	187236-001	114123	Water	07-JUN-2006 15:19	1.0	0.005			3		
051	157a051	CCV	DSL_500			07-JUN-2006 15:47	1.0	1.0			3	5	
052	157a052	CCV	MO_500			07-JUN-2006 16:15	1.0	1.0			3	2	
053	157a053	BLANK	QC342781 S	114123	Water	07-JUN-2006 16:53	1.0	0.005			3		
054	157a054	BS	QC342782 S	114123	Water	07-JUN-2006 17:21	1.0	0.005			3		
055	157a055	BSD	QC342783 S	114123	Water	07-JUN-2006 17:49	1.0	0.005			3		
056	157a056	SAMPLE	187169-001 S	114123	Water	07-JUN-2006 18:17	1.0	0.005			3		
057	157a057	SAMPLE	187065-001 S	114123	Water	07-JUN-2006 18:44	1.0	0.005			3		
058	157a058	SAMPLE	187065-002 S	114123	Water	07-JUN-2006 19:12	1.0	0.005			3		
059	157a059	SAMPLE	187065-003 S	114123	Water	07-JUN-2006 19:40	1.0	0.005			3		
060	157a060	SAMPLE	187065-004 S	114123	Water	07-JUN-2006 20:08	1.0	0.005			3		
061	157a061	SAMPLE	187065-005 S	114123	Water	07-JUN-2006 20:36	1.0	0.005			3		
062	157a062	SAMPLE	187065-006 S	114123	Water	07-JUN-2006 21:04	1.0	0.005			3		

Stds used: 1=S3367 2=S3639 3=S3368 4=S3366 5=S3623

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SEQUENCE SUMMARY FOR 187065 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116226958 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 06-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
063	157a063	X	IB			07-JUN-2006 21:32	1.0						
064	157a064	CCV	DSL_1000			07-JUN-2006 22:00	1.0	1.0			3	3	
065	157a065	CCV	MO_500			07-JUN-2006 22:28	1.0	1.0			3	2	
066	157a066	X	CCV			07-JUN-2006 22:56	1.0					3	
067	157a067	X	CCV			07-JUN-2006 23:24	1.0					2	
068	157a068	BLANK	QC342998 S	114176	Water	07-JUN-2006 23:52	1.0	0.005	8		3		
069	157a069	BS	QC342999 S	114176	Water	08-JUN-2006 00:20	1.0	0.005			3		
070	157a070	BSD	QC343000 S	114176	Water	08-JUN-2006 00:48	1.0	0.005			3		
071	157a071	SAMPLE	187263-001	114176	Water	08-JUN-2006 01:16	1.0	0.005			3		
072	157a072	SAMPLE	187263-002	114176	Water	08-JUN-2006 01:44	1.0	0.005		1	3		
073	157a073	SAMPLE	187263-003	114176	Water	08-JUN-2006 02:12	1.0	0.005		1	3		
074	157a074	X	IB			08-JUN-2006 02:40	1.0						
075	157a075	SAMPLE	187246-011	114207	Soil	08-JUN-2006 03:08	1.0	0.1001			3		
076	157a076	SAMPLE	187246-010	114207	Soil	08-JUN-2006 03:36	1.0	0.09952			3		
077	157a077	SAMPLE	187212-003	114207	Soil	08-JUN-2006 04:04	1.0	0.1001			3		108
078	157a078	SAMPLE	187151-001	114207	Soil	08-JUN-2006 04:32	5.0	0.1001			3		
079	157a079	X	IB			08-JUN-2006 05:00	1.0						
080	157a080	CCV	DSL_250			08-JUN-2006 05:28	1.0	1.0			3	4	
081	157a081	CCV	MO_500			08-JUN-2006 05:56	1.0	1.0			3	2	
082	157a082	X	CCV			08-JUN-2006 06:24	1.0					4	
083	157a083	X	CCV			08-JUN-2006 06:52	1.0					2	
084	157a084	SAMPLE	187051-002	114155	Soil	08-JUN-2006 07:20	1.0	0.1001			3		
085	157a085	SAMPLE	187051-003	114155	Soil	08-JUN-2006 07:48	1.0	0.1004			3		
086	157a086	SAMPLE	187051-004	114155	Soil	08-JUN-2006 08:16	10.0	0.1006			3		
087	157a087	X	IB			08-JUN-2006 08:43	1.0						
088	157a088	SAMPLE	187051-005	114155	Soil	08-JUN-2006 09:11	10.0	0.1006			3		
089	157a089	X	IB			08-JUN-2006 09:39	1.0						
090	157a090	LCS	QC343112 S	114207	Soil	08-JUN-2006 11:23	1.0	0.1003			3		
091	157a091	BLANK	QC343111 S	114207	Soil	08-JUN-2006 11:50	1.0	0.1002	8		3		
092	157a092	MSS	187241-015 S	114207	Soil	08-JUN-2006 12:18	20.0	0.09962	8		3		
093	157a093	SAMPLE	187241-010 S	114207	Soil	08-JUN-2006 12:51	20.0	0.1007			3		

Stds used: 1=S3367 2=S3639 3=S3368 4=S3366 5=S3623

SEQUENCE SUMMARY FOR 187065 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116226958 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 06-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
094	157a094	SAMPLE	187241-025 S	114207	Soil	08-JUN-2006 13:19	40.0	0.2004	3		
095	157a095	SAMPLE	187241-045 S	114207	Soil	08-JUN-2006 13:47	40.0	0.09915	3		
096	157a096	X	IB			08-JUN-2006 14:15	1.0				
097	157a097	CCV	DSL_500			08-JUN-2006 14:43	1.0	1.0	3	1	
098	157a098	CCV	MO_500			08-JUN-2006 15:11	1.0	1.0	3	2	
099	157a099	SAMPLE	187263-003	114176	Water	08-JUN-2006 15:39	1.0	0.005	3		
100	157a100	SAMPLE	187263-002	114176	Water	08-JUN-2006 16:07	1.0	0.005	3		
101	157a101	CCV	DSL_500			08-JUN-2006 16:41	1.0	1.0	3	1	
102	157a102	CCV	MO_500			08-JUN-2006 17:09	1.0	1.0	3	2	

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Stds used: 1=S3367 2=S3639 3=S3368 4=S3366 5=S3623

SEQUENCE SUMMARY FOR 187065 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176229888 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 08-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	159a001	X	PRIMER			08-JUN-2006 15:28	1.0						
002	159a002	X	IB			08-JUN-2006 15:55	1.0						
003	159a003	CCV	DSL_1000			08-JUN-2006 16:22	1.0	1.0			3	1	
004	159a004	CCV	MO_500			08-JUN-2006 16:49	1.0	1.0	1		3	2	
005	159a005	SAMPLE	187065-008 S	114123	Water	08-JUN-2006 17:37	1.0	0.005			3		
006	159a006	SAMPLE	187065-009 S	114123	Water	08-JUN-2006 18:04	1.0	0.005			3		
007	159a007	SAMPLE	187065-010 S	114123	Water	08-JUN-2006 18:31	1.0	0.005			3		
008	159a008	X	IB			08-JUN-2006 18:58	1.0						
009	159a009	SAMPLE	187065-011 S	114123	Water	08-JUN-2006 19:26	1.0	0.005			3		
010	159a010	SAMPLE	187065-012 S	114123	Water	08-JUN-2006 19:53	1.0	0.005			3		
011	159a011	SAMPLE	187065-013 S	114123	Water	08-JUN-2006 20:20	1.0	0.005			3		
012	159a012	SAMPLE	187065-014 S	114123	Water	08-JUN-2006 20:47	1.0	0.005			3		
013	159a013	X	IB			08-JUN-2006 21:15	1.0						
014	159a014	SAMPLE	187065-015 S	114123	Water	08-JUN-2006 21:42	1.0	0.005			3		
015	159a015	SAMPLE	187065-016 S	114123	Water	08-JUN-2006 22:09	1.0	0.005			3		110
016	159a016	SAMPLE	187065-017 S	114123	Water	08-JUN-2006 22:37	1.0	0.005			3		
017	159a017	X	IB			08-JUN-2006 23:04	1.0						
018	159a018	CCV	DSL_250			08-JUN-2006 23:31	1.0	1.0			3	3	
019	159a019	CCV	MO_500			08-JUN-2006 23:59	1.0	1.0			3	2	
020	159a020	X	CCV			09-JUN-2006 00:27	1.0					3	
021	159a021	X	CCV			09-JUN-2006 00:54	1.0					2	
022	159a022	SAMPLE	187087-002 S	114175	Water	09-JUN-2006 01:21	1.0	0.005			3		
023	159a023	SAMPLE	187087-003 S	114175	Water	09-JUN-2006 01:48	1.0	0.005			3		
024	159a024	SAMPLE	187087-004 S	114175	Water	09-JUN-2006 02:16	1.0	0.005			3		
025	159a025	SAMPLE	187087-005 S	114175	Water	09-JUN-2006 02:43	1.0	0.005			3		
026	159a026	X	IB			09-JUN-2006 03:10	1.0						
027	159a027	SAMPLE	187104-002 S	114175	Water	09-JUN-2006 03:37	1.0	0.005			3		
028	159a028	SAMPLE	187104-003 S	114175	Water	09-JUN-2006 04:05	1.0	0.005			3		
029	159a029	SAMPLE	187104-004 S	114175	Water	09-JUN-2006 04:32	1.0	0.005		1	3		
030	159a030	SAMPLE	187169-003 S	114175	Water	09-JUN-2006 04:59	1.0	0.005			3		
031	159a031	SAMPLE	187169-002 S	114175	Water	09-JUN-2006 05:26	1.0	0.005			3		

Stds used: 1=S3368 2=S3404 3=S3366 4=S3623

SEQUENCE SUMMARY FOR 187065 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 176229888 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 08-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	159a032	SAMPLE	187109-001 S	114175	Water	09-JUN-2006 05:54	1.0	0.005			.3		
033	159a033	X	IB			09-JUN-2006 06:21	1.0						
034	159a034	CCV	DSL_500			09-JUN-2006 06:48	1.0	1.0			3	4	
035	159a035	CCV	MO_500			09-JUN-2006 07:15	1.0	1.0	5		3	2	
036	159a036	X	CCV			09-JUN-2006 07:43	1.0					4	
037	159a037	X	CCV			09-JUN-2006 08:10	1.0					2	

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Stds used: 1=S3368 2=S3404 3=S3366 4=S3623

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187065 TEHM Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	MO:2	HXCS	
187065-001	GC11A	06/07/06 18:44	1.0	+	+	+	
187065-002	GC11A	06/07/06 19:12	1.0	+	+	+	
187065-003	GC11A	06/07/06 19:40	1.0	+	+	+	
187065-004	GC11A	06/07/06 20:08	1.0	+	+	+	
187065-005	GC11A	06/07/06 20:36	1.0	+	+	+	
187065-006	GC11A	06/07/06 21:04	1.0	+	+	+	
187065-008	GC17A	06/08/06 17:37	1.0	+	+	+	
187065-009	GC17A	06/08/06 18:04	1.0	+	+	+	
187065-010	GC17A	06/08/06 18:31	1.0	+	+	+	
187065-011	GC17A	06/08/06 19:26	1.0	+	+	+	
187065-012	GC17A	06/08/06 19:53	1.0	+	+	+	
187065-013	GC17A	06/08/06 20:20	1.0	+	+	+	
187065-014	GC17A	06/08/06 20:47	1.0	+	+	+	
187065-015	GC17A	06/08/06 21:42	1.0	+	+	+	
187065-016	GC17A	06/08/06 22:09	1.0	+	+	+	
187065-017	GC17A	06/08/06 22:37	1.0	+	+	+	
QC342781	GC11A	06/07/06 16:53	1.0	+	+	+	
QC342782	GC11A	06/07/06 17:21	1.0	+		+	
QC342783	GC11A	06/07/06 17:49	1.0	+		+	

Curtis & Tompkins Laboratories **Sample Preparation Summary** **07-JUN-2006 11:09**

Batch Number : 114123
Date Extracted: 05-JUN-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : TEHM
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S3417C
Spike #2 ID : S3587D
Spike #3 ID :
SOP Version :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
187065-001		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
187065-002		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
187065-003		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
187065-004		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
187065-005		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
187065-006		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
187065-008		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
187065-009		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
187065-010		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
187065-011		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
187065-012		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
187065-013		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
187065-014		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
187065-015		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
187065-016		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
187065-017		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
187169-001		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM	3630C	
187236-001		Ghilotti Bros. Contractors	Water	500	mL	2.5	0.005000	1	7	.5	0		TEHM		
QC342781	BLANK		Water	500	mL	2.5	0.005000	1		.5	0		TEHM	3630C	
QC342782	BS		Water	500	mL	2.5	0.005000	1		.5	.5		TEHM	3630C	
QC342783	BSD		Water	500	mL	2.5	0.005000	1		.5	.5		TEHM	3630C	

Prep Chemist: Jessie Mee Reviewed By: [illegible] Date: 6/7/06

Relinquished By: [illegible] Received By: [illegible] Date: 6/7/06

Curtis &

TEH WATER PREP LOG

BK2279

LIMS B 3

LIMS A

Extr

Date E 06

Extraction Method:

☐ mod. EPA 3510 sep. funnel

☒ mod. EPA 3520 cont. L/L

☐ _____

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Cleanup Method (if needed):

☒ EPA 3630 Silica Gel

☐ Other _____

Sampl	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
18701	500	7	2.5	X	

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: SD
Cleanup Date: 6/7/06

Benchbook # **BK 2325**
Page 29

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
187065-001	114123	1.0	1.0	
-002				
-003				
-004				
-005				
-006				
-008				
-009				
-010				
-011				
-012				
-013				
-014				
-015				
-016				
-017				
187169-001				
MB QC 342781				
BS 82				
BSD 83				

SD 6/7/06

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ____ g columns	NA	SD 6/7/06
☑ Extracts were cleaned up using 1.0 g cartridges	SP7156	
Extracts were eluted with 4.0 mL CH_2Cl_2	EM 46110	
Concentrated to volumes as noted above	✓	

6/7/06
Extraction Chemist / Date

Continued from page #
Continued on page #

Dan McCu 6/7/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water
As of 06/22/06

Analyte	Units	GC11A	GC13B B	GC15B	GC17A
JP-5 C10-C16	ug/L	17	16	7.9	5.4
Jet Fuel A C10-C16	ug/L	14	30	24	33
Diesel C12-C36	ug/L	13	17		
Diesel C12-C32	ug/L	22	14	25	23
Diesel C12-C28	ug/L		31		
Diesel C12-C24	ug/L	20	13	20	33
Diesel C12-C22	ug/L	19	17	20	25
Diesel C10-C28	ug/L	18	11	22	37
Diesel C10-C24	ug/L	21	15	18	33
Diesel C10-C22	ug/L	21	18	19	27
Diesel C10-C20	ug/L		16	13	19
Motor Oil C22-C36	ug/L	41	52	30	51
Motor Oil C22-C32	ug/L	36	51	21	50
Motor Oil C28-C36	ug/L	42	55	33	76
Motor Oil C20-C36	ug/L	40	50	29	53
Motor Oil C24-C36	ug/L	42	55	33	76
Hexacosane	ug/L	4.5	3.4	4.2	3.1

VOLATILE ORGANIC COMPOUNDS

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	1065PZ1A	Batch#:	114112
Lab ID:	187065-001	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Analyzed:	06/05/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	0.09 J	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	99	76-114
Toluene-d8	106	88-110
Bromofluorobenzene	101	86-115

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	1065MW101	Batch#:	114055
Lab ID:	187065-004	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Analyzed:	06/02/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	98	76-114
Toluene-d8	106	88-110
Bromofluorobenzene	104	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	1065MW102	Batch#:	114055
Lab ID:	187065-005	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Analyzed:	06/02/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	99	76-114
Toluene-d8	105	88-110
Bromofluorobenzene	102	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	231GW09	Batch#:	114055
Lab ID:	187065-006	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Analyzed:	06/02/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	102	76-114
Toluene-d8	105	88-110
Bromofluorobenzene	104	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	1213GW101	Batch#:	114055
Lab ID:	187065-009	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Analyzed:	06/02/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	6.6	0.5	
Benzene	8.5	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-120
1,2-Dichloroethane-d4	102	76-114
Toluene-d8	106	88-110
Bromofluorobenzene	102	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DUP-05242006	Batch#:	114112
Lab ID:	187065-011	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Analyzed:	06/05/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	9.6	0.5	
Benzene	34	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	0.8	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	2.7	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	0.9	0.5	

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	99	76-114
Toluene-d8	106	88-110
Bromofluorobenzene	105	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	1349MW100	Batch#:	114055
Lab ID:	187065-012	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Analyzed:	06/02/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	0.7	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	29	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	0.8	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	3.8	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-120
1,2-Dichloroethane-d4	102	76-114
Toluene-d8	106	88-110
Bromofluorobenzene	95	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DUP0524063A	Batch#:	114055
Lab ID:	187065-013	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Analyzed:	06/02/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	0.8	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	28	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	0.8	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	3.7	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	96	76-114
Toluene-d8	105	88-110
Bromofluorobenzene	95	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	1065PZ1B	Batch#:	114055
Lab ID:	187065-014	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Analyzed:	06/02/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	96	76-114
Toluene-d8	104	88-110
Bromofluorobenzene	97	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	TB0524063A	Batch#:	114055
Lab ID:	187065-018	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Analyzed:	06/02/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	99	76-114
Toluene-d8	105	88-110
Bromofluorobenzene	104	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC342491	Batch#:	114055
Matrix:	Water	Analyzed:	06/02/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	98	76-114
Toluene-d8	105	88-110
Bromofluorobenzene	102	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC342728	Batch#:	114112
Matrix:	Water	Analyzed:	06/05/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	100	76-114
Toluene-d8	106	88-110
Bromofluorobenzene	102	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC342729	Batch#:	114112
Matrix:	Water	Analyzed:	06/05/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	101	76-114
Toluene-d8	106	88-110
Bromofluorobenzene	105	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	114055
Units:	ug/L	Analyzed:	06/02/06
Diln Fac:	1.000		

Type: BS Lab ID: QC342489

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	25.98	104	65-135
Benzene	25.00	23.88	96	65-135
Trichloroethene	25.00	24.22	97	65-135
Toluene	25.00	24.05	96	65-135
Chlorobenzene	25.00	23.93	96	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	97	76-114
Toluene-d8	106	88-110
Bromofluorobenzene	97	86-115

Type: BSD Lab ID: QC342490

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	28.85	115	65-135	10	35
Benzene	25.00	25.55	102	65-135	7	35
Trichloroethene	25.00	26.55	106	65-135	9	35
Toluene	25.00	25.22	101	65-135	5	35
Chlorobenzene	25.00	25.80	103	65-135	8	35

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	96	76-114
Toluene-d8	105	88-110
Bromofluorobenzene	95	86-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	114112
Units:	ug/L	Analyzed:	06/05/06
Diln Fac:	1.000		

Type: BS Lab ID: QC342726

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	26.18	105	65-135
Benzene	25.00	23.91	96	65-135
Trichloroethene	25.00	24.85	99	65-135
Toluene	25.00	23.81	95	65-135
Chlorobenzene	25.00	23.99	96	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	100	76-114
Toluene-d8	105	88-110
Bromofluorobenzene	96	86-115

Type: BSD Lab ID: QC342727

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	29.72	119	65-135	13	35
Benzene	25.00	25.47	102	65-135	6	35
Trichloroethene	25.00	26.18	105	65-135	5	35
Toluene	25.00	25.13	101	65-135	5	35
Chlorobenzene	25.00	25.71	103	65-135	7	35

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	101	76-114
Toluene-d8	104	88-110
Bromofluorobenzene	95	86-115

RPD= Relative Percent Difference

MSVOA10 8260X w. TUNE
ICM

Data File: \\GCMSSERVER\DD\chem\MSVOA10.i\051506.b\JEF08.D

Date : 15-MAY-2006 16:20

Client ID: bfb tune std

Instrument: MSVOA10.i

Sample Info: BFB,S2327

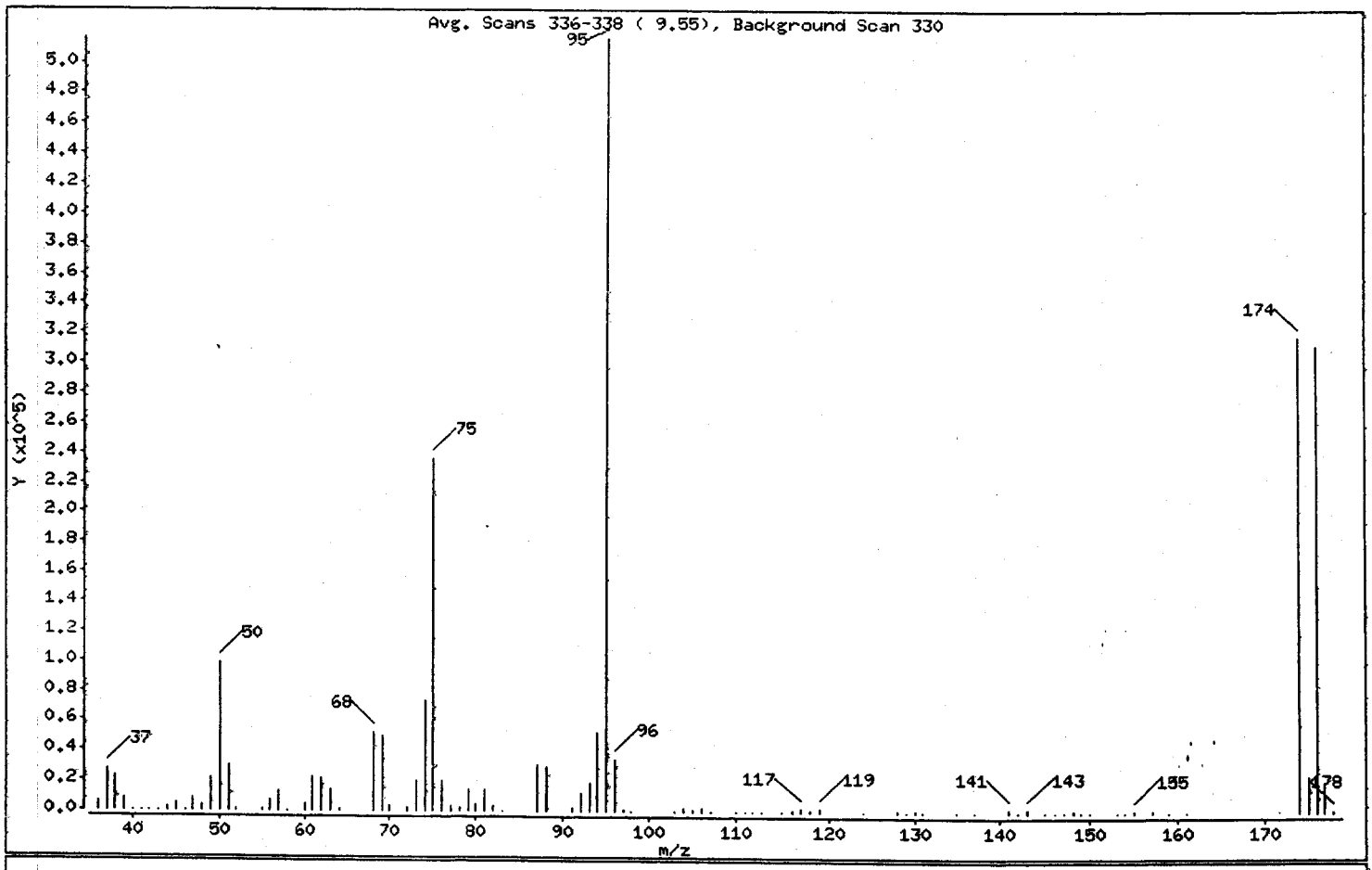
Volume Injected (uL): 1.0

Operator: VOA

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.99
75	30.00 - 60.00% of mass 95	45.73
96	5.00 - 9.00% of mass 95	6.68
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	61.63
175	5.00 - 9.00% of mass 174	4.54 (7.36)
176	95.01 - 100.99% of mass 174	60.56 (98.26)
177	5.00 - 9.00% of mass 176	3.93 (6.49)

05/17/06

5/16/06

MSVOA 10 8260x WICN TUNE

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051606.b\JEG01.D

Date : 16-MAY-2006 08:13

Client ID: bfb tune std

Instrument: MSVOA10.i

Sample Info: BFB,S2327

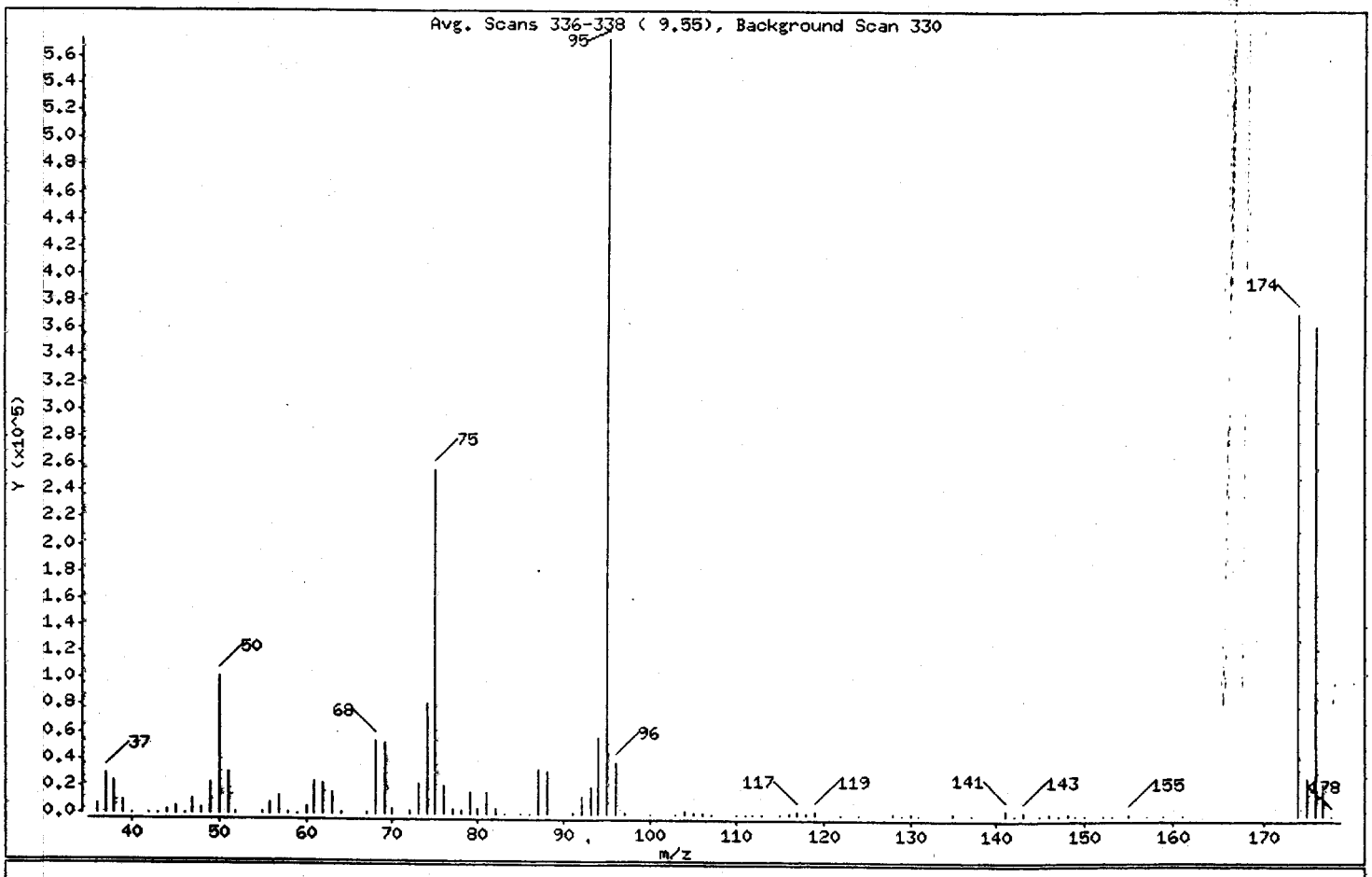
Volume Injected (uL): 1.0

Operator: VOA

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.77
75	30.00 - 60.00% of mass 95	44.64
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	64.99
175	5.00 - 9.00% of mass 174	4.85 (7.46)
176	95.01 - 100.99% of mass 174	63.31 (97.41)
177	5.00 - 9.00% of mass 176	4.05 (6.40)

05/17/06

5/16/06

Data File: \\GCMSSERVER\DD\chem\MSVOA10.i\060206.b\JF201.D

Date : 02-JUN-2006 07:18

Client ID: bfb tune std

Instrument: MSVOA10.i

Sample Info: BFB,S2327

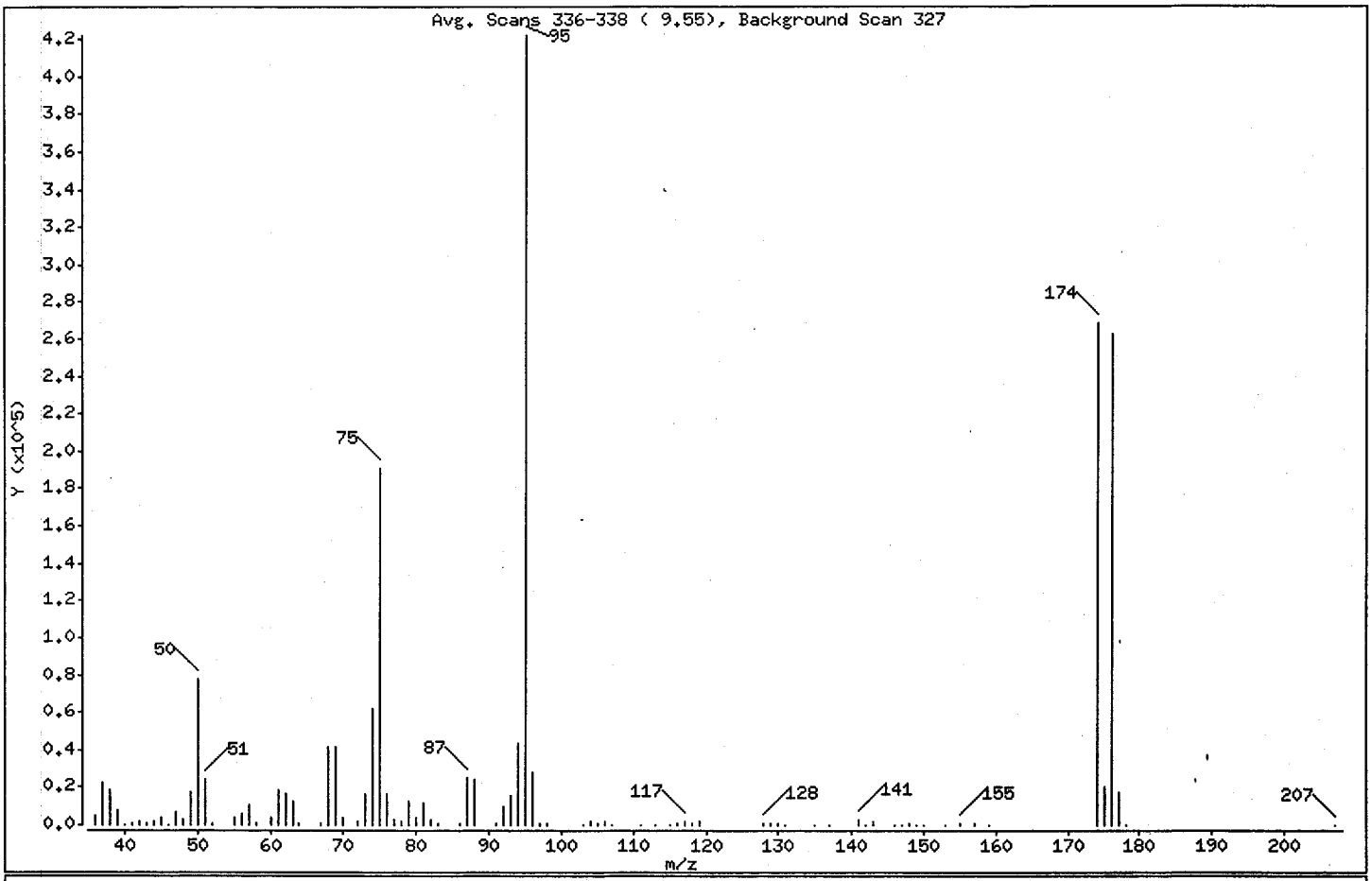
Volume Injected (uL): 1.0

Operator: VOA

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.48
75	30.00 - 60.00% of mass 95	45.35
96	5.00 - 9.00% of mass 95	6.73
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	63.72
175	5.00 - 9.00% of mass 174	4.74 (7.44)
176	95.01 - 100.99% of mass 174	62.36 (97.87)
177	5.00 - 9.00% of mass 176	4.05 (6.49)

a 9/05/06

6/2/06

Data File: \\GCMSSERVER\DD\chem\MSVOA10.i\060206.b\JF205.D

Date : 02-JUN-2006 09:27

Client ID: bfb tune std

Instrument: MSVOA10.i

Sample Info: BFB,S2327

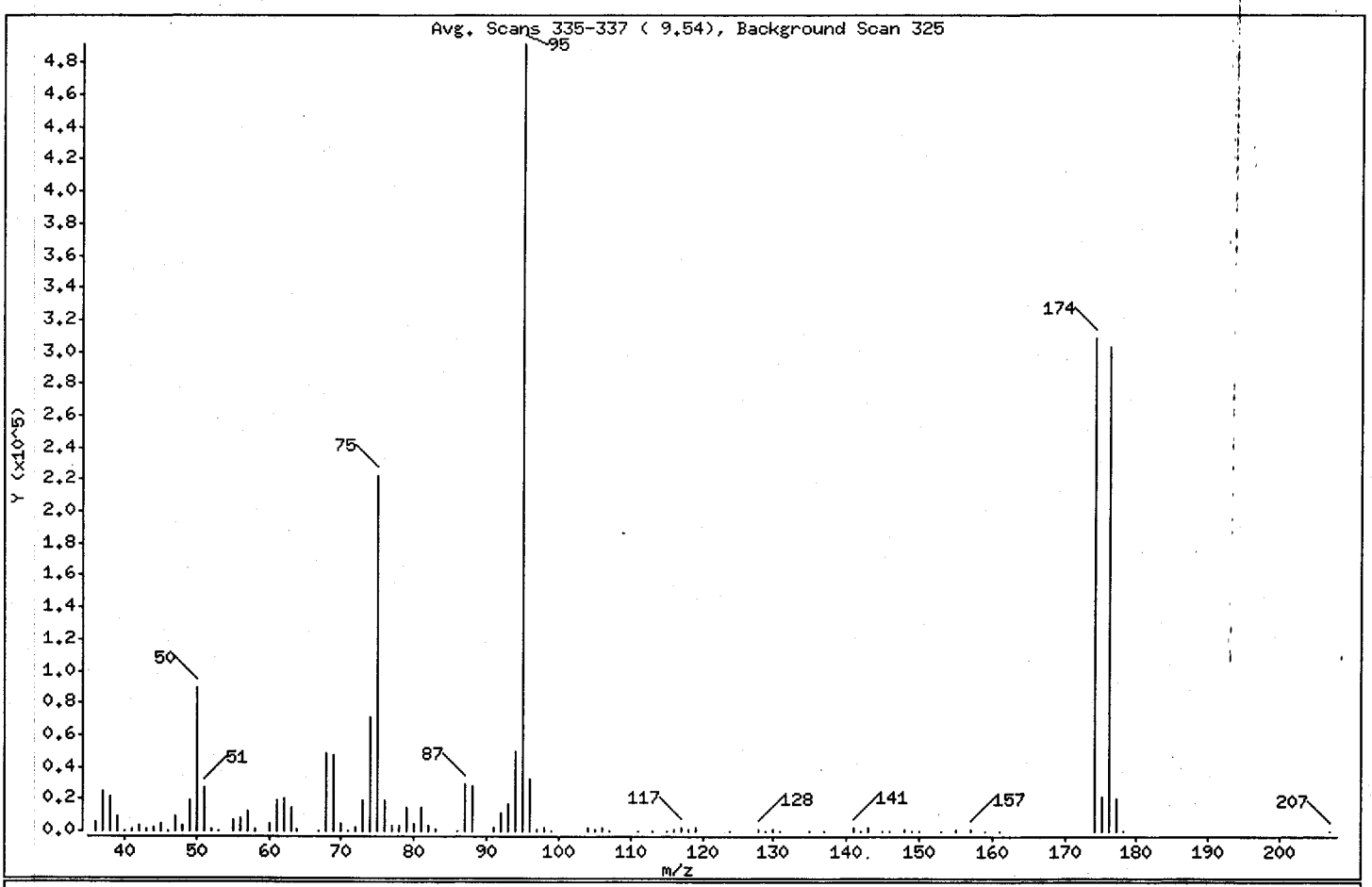
Volume Injected (uL): 1.0

Operator: VOA

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.13
75	30.00 - 60.00% of mass 95	45.38
96	5.00 - 9.00% of mass 95	6.68
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	62.76
175	5.00 - 9.00% of mass 174	4.47 (7.13)
176	95.01 - 100.99% of mass 174	61.51 (98.01)
177	5.00 - 9.00% of mass 176	4.08 (6.64)

6/2/06

6/2/06

Data File: \\GCMSSERVER\DD\chem\MSVOA10.i\060506.b\JF502.D

Date : 05-JUN-2006 10:52

Client ID: bfb tune std

Instrument: MSVOA10.i

Sample Info: BFB,S2327

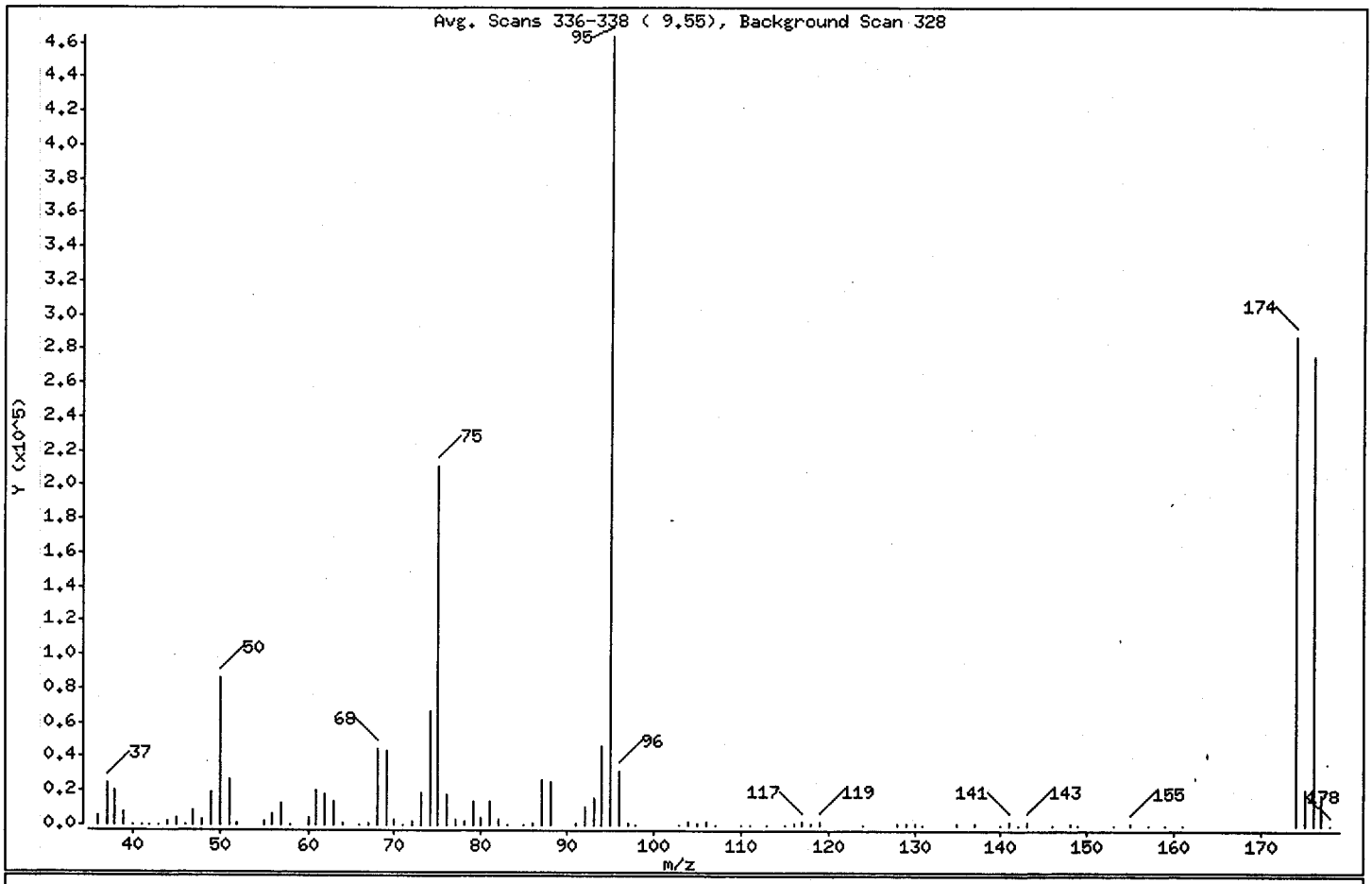
Volume Injected (uL): 1.0

Operator: VOA

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.60
75	30.00 - 60.00% of mass 95	45.49
96	5.00 - 9.00% of mass 95	6.91
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	61.99
175	5.00 - 9.00% of mass 174	4.57 (7.37)
176	95.01 - 100.99% of mass 174	59.57 (96.10)
177	5.00 - 9.00% of mass 176	3.90 (6.55)

137 6/5/06

Data File: \\GCMSSERVER\DD\chem\MSVOA10.i\060506.b\JF510.D

Date : 05-JUN-2006 15:39

Client ID: bfb tune std

Instrument: MSVOA10.i

Sample Info: BFB,S2327

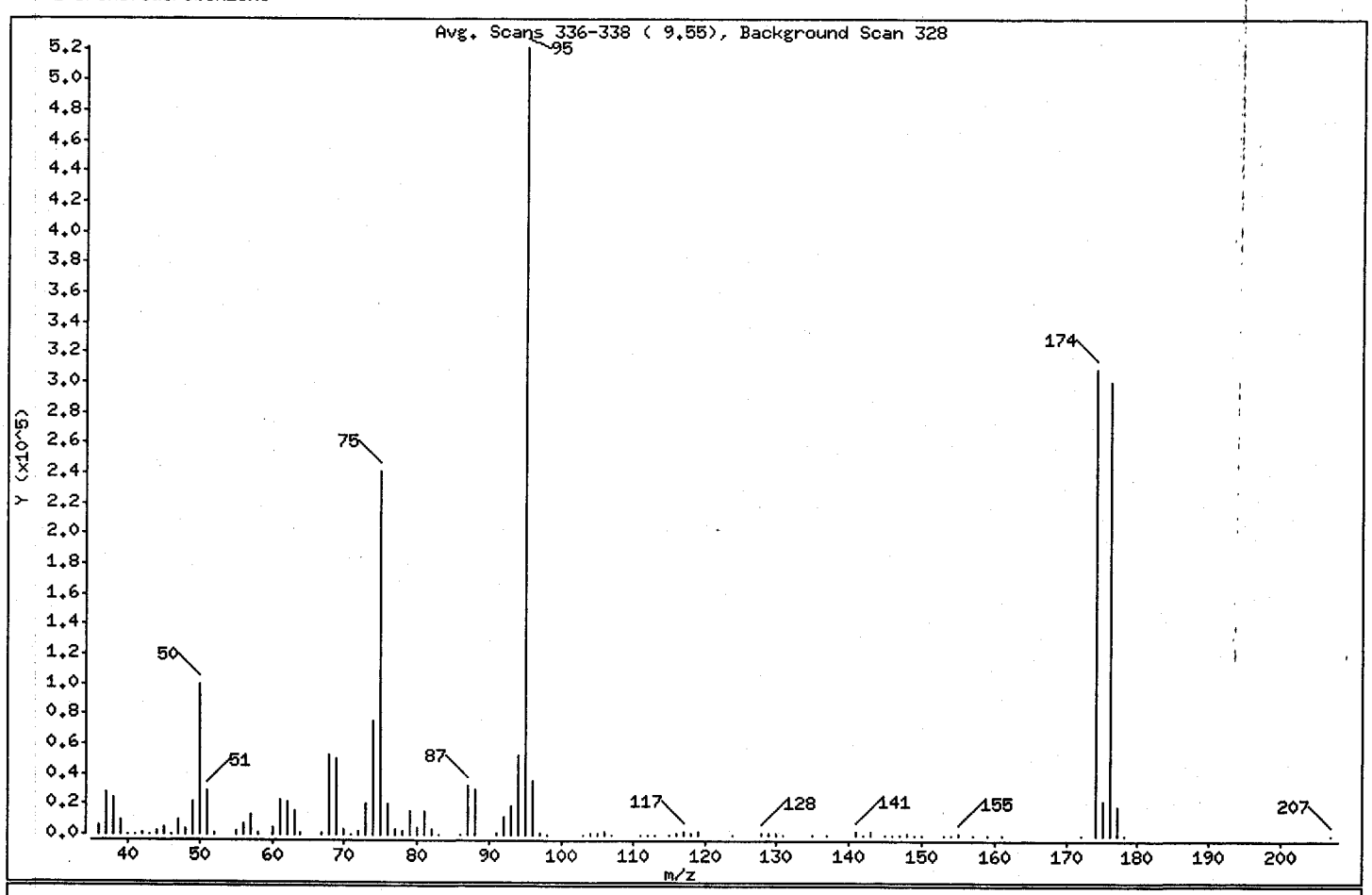
Volume Injected (uL): 1.0

Operator: VOA

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.06
75	30.00 - 60.00% of mass 95	46.12
96	5.00 - 9.00% of mass 95	6.83
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	59.32
175	5.00 - 9.00% of mass 174	4.36 (7.34)
176	95.01 - 100.99% of mass 174	57.61 (97.11)
177	5.00 - 9.00% of mass 176	3.75 (6.51)

6/5/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 8260B

Inst : MSVOA10
Calnum: 496195044001
Units : ug/L

Name : 826GOX10
Date : 15-MAY-2006 18:22
X Axis: R

Type : WATER

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	jef12	496195044012	0.25/0.5PPB	15-MAY-2006 18:22	S3321 (2000000X), S3255 (1000000X), S2864 (2000000X), S3046 (5000X)
L2	jef13	496195044013	0.5/1PPB	15-MAY-2006 18:57	S3321 (1000000X), S3255 (500000X), S2864 (1000000X), S3046 (5000X)
L3	jef14	496195044014	2PPB	15-MAY-2006 19:32	S3321 (250000X), S3255 (250000X), S2864 (500000X), S3046 (5000X)
L4	jef15	496195044015	5PPB	15-MAY-2006 20:07	S3321 (100000X), S3255 (100000X), S2864 (200000X), S3046 (5000X)
L5	jef16	496195044016	10PPB	15-MAY-2006 20:42	S3321 (50000X), S3255 (50000X), S2864 (100000X), S3046 (5000X)
L6	jef17	496195044017	20PPB	15-MAY-2006 21:16	S3321 (25000X), S3255 (25000X), S2864 (50000X), S3046 (5000X)
L7	jef18	496195044018	50PPB	15-MAY-2006 21:51	S3321 (10000X), S3255 (10000X), S2864 (20000X), S3046 (5000X)
L8	jef19	496195044019	75PPB	15-MAY-2006 22:26	S3321 (6667X), S3255 (6667X), S2864 (13330X), S3046 (5000X)
L9	jef20	496195044020	100PPB	15-MAY-2006 23:01	S3321 (5000X), S3255 (5000X), S2864 (10000X), S3046 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.3828m	0.3978m	0.3973m	0.3765	0.3991	0.4229	0.4055	0.3870	AVRG		2.52454		0.3961	4	15	0.050	0.99	
Chloromethane		0.6620m	0.6539	0.5717	0.5304	0.5129	0.5231	0.4902	0.4295	AVRG		1.82917		0.5467	15	15	0.10	0.99	
Vinyl Chloride	0.4244m	0.4168	0.4654	0.4139	0.3859	0.3826	0.4089	0.3850	0.3527	AVRG		2.47548		0.4040	8	15	0.050	0.99	
Bromomethane		0.2577	0.2713	0.2576	0.2536	0.2534	0.2878	0.2958	0.2995	AVRG		3.67518		0.2721	7	15	0.050	0.99	
Chloroethane		0.3805m	0.3873m	0.3446	0.3573	0.3413	0.3446	0.3424	0.3148	AVRG		2.84430		0.3516	7	15	0.050	0.99	
Trichlorofluoromethane		0.5842	0.5946	0.5767	0.5306	0.5346	0.5674	0.5649	0.5229	AVRG		1.78732		0.5595	5	15	0.050	0.99	
Acetone				0.1643	0.1369	0.1419	0.1341	0.1268	0.1163	AVRG		7.31424		0.1367	12	15	0.050	0.99	
Freon 113		0.2504	0.2903	0.2731	0.3563	0.3387	0.3691	0.3537	0.3297	AVRG		3.12347		0.3202	14	15	0.050	0.99	
1,1-Dichloroethene		0.3454	0.3337	0.3198	0.3231	0.3150	0.3265	0.3272	0.3022	AVRG		3.08538		0.3241	4	15	0.050	0.99	
Methylene Chloride			0.5068m	0.4642	0.4517	0.4380	0.4330	0.4311	0.4035	AVRG		2.23761		0.4469	7	15	0.050	0.99	
Carbon Disulfide		1.5375	1.4686	1.4197	1.4402	1.3871	1.4135	1.4006	1.3234	AVRG		0.70234		1.4238	4	15	0.050	0.99	
MTBE		1.2141	1.2047	1.2028	1.1461	1.1060	1.1134	1.1057	1.0321	AVRG		0.87673		1.1406	6	15	0.050	0.99	
trans-1,2-Dichloroethene		0.4154	0.4114	0.4013	0.3887	0.3766	0.3804	0.3816	0.3576	AVRG		2.56988		0.3891	5	15	0.050	0.99	
Vinyl Acetate		1.5852	1.6844	1.6279	1.5970	1.3763	1.5036	1.4187m	1.2815m	AVRG		0.66254		1.5093	9	15	0.050	0.99	
1,1-Dichloroethane		0.7735	0.8034	0.7868	0.7311	0.7155	0.6883	0.6798	0.6253	AVRG		1.37843		0.7255	8	15	0.10	0.99	
2-Butanone			0.2471m	0.2307	0.2009	0.2123	0.2173	0.2113	0.2012	AVRG		4.60287		0.2173	8	15	0.050	0.99	
2,2-Dichloropropane		0.5288	0.5213	0.4817	0.4737	0.4535	0.4595	0.4510	0.4201	AVRG		2.11101		0.4737	8	15	0.050	0.99	
cis-1,2-Dichloroethene		0.4377	0.4690	0.4653	0.4287	0.4174	0.4185	0.4248	0.3877	AVRG		2.31941		0.4311	6	15	0.050	0.99	
Chloroform		0.7740	0.7259	0.7314	0.6792	0.6475	0.6461	0.6316	0.5836	AVRG		1.47623		0.6774	9	15	0.050	0.99	
Bromochloromethane		0.1959	0.1972	0.2150	0.2152	0.2041	0.2135	0.2101	0.2000	AVRG		4.84567		0.2064	4	15	0.050	0.99	
1,1,1-Trichloroethane		0.4614	0.5024	0.4693	0.4857	0.4592	0.4805	0.4679	0.4477	AVRG		2.11964		0.4718	4	15	0.050	0.99	
1,1-Dichloropropene		0.2467	0.2540	0.2411	0.2644	0.2469	0.2575	0.2452	0.2393	AVRG		4.01005		0.2494	3	15	0.050	0.99	
Carbon Tetrachloride		0.1620	0.1957	0.1700	0.1888	0.1807	0.1942	0.1896	0.1816	AVRG		5.47046		0.1828	6	15	0.050	0.99	
1,2-Dichloroethane		0.2618	0.2552	0.2550	0.2551	0.2434	0.2448	0.2460	0.2267	AVRG		4.02399		0.2485	4	15	0.050	0.99	

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No 2Clw, Nph + 123TCB to 50 ppb only, ICV-Chlorobenzene +, +A.C.E. low - Bromo ↑, THF ↓ 0 05/17/06

& 5/16/06

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		0.8740	0.8380	0.8044	0.7673	0.7314	0.7288	0.7167	0.6914	AVRG		1.30040		0.7690	8	15	0.050	0.99	
Trichloroethene		0.1917	0.2073	0.1966	0.1913	0.1883	0.1877	0.1853	0.1800	AVRG		5.23495		0.1910	4	15	0.050	0.99	
1,2-Dichloropropane		0.2432	0.2456	0.2439	0.2287	0.2212	0.2213	0.2106	0.1995	AVRG		4.41003		0.2268	7	15	0.050	0.99	
Bromodichloromethane		0.2434	0.2462	0.2563	0.2533	0.2418	0.2488	0.2448	0.2329	AVRG		4.06623		0.2459	3	15	0.050	0.99	
Dibromomethane		0.1334	0.1469	0.1470	0.1404	0.1399	0.1436	0.1418	0.1330	AVRG		7.10507		0.1407	4	15	0.050	0.99	
2-Chloroethylvinylether		0.0213	0.0410	0.0424	0.0429m	0.0503m	0.0674m	0.0596m	0.0614m	LINR	1.58303	15.9168		0.0483	0.996	15	0.050	0.99	irf ***
4-Methyl-2-Pentanone			0.2590	0.2516	0.2585	0.2535	0.2606	0.2202	0.2341	AVRG		4.02893		0.2482	6	15	0.050	0.99	
Tetramethyl THF		0.4591	0.4556	0.4602	0.4411	0.4312	0.4455	0.4384	0.4020	AVRG		2.26435		0.4416	4	15	0.050	0.99	
cis-1,3-Dichloropropene		0.3407	0.3453	0.3290	0.3304	0.3179	0.3307	0.3172	0.3098	AVRG		3.05216		0.3276	4	15	0.050	0.99	
Toluene		0.4827	0.4592	0.4520	0.4503	0.4312	0.4330	0.4190	0.4016	AVRG		2.26699		0.4411	6	15	0.050	0.99	
trans-1,3-Dichloropropene		0.2672	0.2859	0.2871	0.2886	0.2821	0.2899	0.2821	0.2679	AVRG		3.55418		0.2814	3	15	0.050	0.99	
1,1,2-Trichloroethane		0.0901	0.1068	0.1092	0.1089	0.1036	0.1065	0.1032	0.0978	AVRG		9.68308		0.1033	6	15	0.050	0.99	
2-Hexanone			0.1637	0.1671	0.1601	0.1631	0.1645	0.1559	0.1498	AVRG		6.22679		0.1606	4	15	0.050	0.99	
1,3-Dichloropropane		0.3681	0.3809	0.3767	0.3723	0.3530	0.3531	0.3429	0.3321	AVRG		2.77860		0.3599	5	15	0.050	0.99	
Tetrachloroethene		0.1568	0.1749	0.1588	0.1711	0.1665	0.1737	0.1713	0.1669	AVRG		5.96994		0.1675	4	15	0.050	0.99	
Dibromochloromethane		0.1786	0.2121	0.2069	0.2053	0.1981	0.2086	0.2032	0.2005	AVRG		4.95853		0.2017	5	15	0.050	0.99	
1,2-Dibromoethane		0.2182	0.2039	0.2022	0.2031	0.1979	0.2020	0.1980	0.1924	AVRG		4.94554		0.2022	4	15	0.050	0.99	
Chlorobenzene		0.5952	0.6045	0.5716	0.5558	0.5414	0.5380	0.5279	0.5037	AVRG		1.80261		0.5548	6	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.1737	0.1879	0.1822	0.1800	0.1722	0.1761	0.1756	0.1657	AVRG		5.65996		0.1767	4	15	0.050	0.99	
Ethylbenzene		1.0752	1.0035	0.9532	0.9528	0.9188	0.9204	0.8893	0.8259	AVRG		1.06114		0.9424	8	15	0.050	0.99	
m,p-Xylenes	0.3419	0.3596	0.3463	0.3380	0.3446	0.3360	0.3243	0.3153	0.2926	AVRG		3.00129		0.3332	6	15	0.050	0.99	
o-Xylene		0.3510	0.3292	0.3299	0.3331	0.3314	0.3229	0.3110	0.2867	AVRG		3.08267		0.3244	6	15	0.050	0.99	
Styrene		0.5460	0.5439	0.5453	0.5730	0.5618	0.5517	0.5354	0.5006	AVRG		1.83584		0.5447	4	15	0.050	0.99	
Bromoform		0.1520	0.1324	0.1340	0.1361	0.1289	0.1341	0.1328	0.1312	AVRG		7.39802		0.1352	5	15	0.10	0.99	
Isopropylbenzene		2.3319	2.4474	2.1888	2.2058	2.0600	2.0432	1.9798	1.8812	AVRG		0.46680		2.1423	9	15	0.050	0.99	
1,1,2,2-Tetrachloroethane		0.8744	0.9270	0.8730	0.8150	0.7411	0.7625	0.7137	0.6976	AVRG		1.24917		0.8005	11	15	0.30	0.99	
1,2,3-Trichloropropane		0.5835	0.7195	0.6646	0.6953	0.6548	0.6322	0.5847	0.5744	AVRG		1.56586		0.6386	9	15	0.050	0.99	
Propylbenzene		2.7887	2.7605	2.5567	2.6493	2.5088	2.5513	2.4384	2.3530	AVRG		0.38822		2.5758	6	15	0.050	0.99	
Bromobenzene		0.5197	0.5636	0.5362	0.5245	0.4940	0.4847	0.4745	0.4640	AVRG		1.96988		0.5076	7	15	0.050	0.99	
1,3,5-Trimethylbenzene		1.3552	1.4178	1.3735	1.4451	1.3735	1.4025	1.3981	1.3686	AVRG		0.71850		1.3918	2	15	0.050	0.99	
2-Chlorotoluene		2.0216	2.0272	1.8435	1.8090	1.6880	1.6430	1.5777	1.5008	AVRG		0.56694		1.7638	11	15	0.050	0.99	
4-Chlorotoluene		1.6598	1.7640	1.6253	1.5892	1.4952	1.5318	1.4894	1.4324	AVRG		0.63557		1.5734	7	15	0.050	0.99	
tert-Butylbenzene		1.4897m	1.4933m	1.4456	1.5033m	1.4216m	1.4627m	1.4405m	1.4261m	AVRG		0.68476		1.4604	2	15	0.050	0.99	
1,2,4-Trimethylbenzene		1.1033	1.1772	1.2257	1.2776	1.2419	1.3198	1.2878	1.3423	AVRG		0.80195		1.2470	6	15	0.050	0.99	
sec-Butylbenzene		1.8740	1.9454	1.8716	2.1203	2.0258	2.1508	2.0621	2.0254	AVRG		0.49765		2.0094	5	15	0.050	0.99	
para-Isopropyl Toluene		1.0304	1.1241	1.1546	1.3128	1.3328	1.4459	1.4260	1.4442	AVRG		0.77891		1.2838	13	15	0.050	0.99	
1,3-Dichlorobenzene		0.9194	0.9557	0.9232	0.9094	0.8696	0.8740	0.8660	0.8515	AVRG		1.11596		0.8961	4	15	0.050	0.99	
1,4-Dichlorobenzene		0.8808	0.9521	0.8928	0.8709	0.8549	0.8576	0.8500	0.8443	AVRG		1.14230		0.8754	4	15	0.050	0.99	
n-Butylbenzene	0.6209	0.7182	0.7930	0.8311	1.0136	1.0824	1.2310	1.2343	1.2866	QUAD	0.79431	0.86045	-0.00069	0.9790	1.000	15	0.050	0.99	
1,2-Dichlorobenzene		0.7864	0.8584	0.8585	0.8713	0.8278	0.8419	0.8180	0.8163	AVRG		1.19788		0.8348	3	15	0.050	0.99	
1,2-Dibromo-3-Chloropropane		0.1174	0.1205	0.1228	0.1151	0.1131	0.1191	0.1097	0.1088	AVRG		8.63457		0.1158	4	15	0.050	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,4-Trichlorobenzene		0.0391	0.0695	0.1194	0.1573	0.1962	0.2486	0.2656	0.2999	QUAD	1.94727	4.42977	-0.03876	0.1745	0.999	15	0.050	0.99	
Hexachlorobutadiene		0.0420	0.0861	0.0931	0.1322	0.1397	0.1573	0.1511	0.1567	QUAD	1.17051	6.52597	-0.01256	0.1198	0.999	15	0.050	0.99	
Naphthalene	0.3641	0.3775m	0.2532	0.3623	0.3979	0.4760	0.6052			QUAD	0.52030	2.30469	-0.02216	0.4052	0.999	15	0.050	0.99	
1,2,3-Trichlorobenzene		0.0205m	0.0209	0.0796	0.1192	0.1672	0.2245			QUAD	1.74573	6.21801	-0.17127	0.1053	0.998	15	0.050	0.99	
tert-Butyl Alcohol (TBA)		0.0323	0.0360	0.0357	0.0348	0.0351	0.0383	0.0347	0.0333	AVRG		28.5429		0.0350	5	15	0.005	0.99	
Isopropyl Ether (DIPE)		1.6286	1.6311	1.6348	1.5540	1.4779	1.4568	1.4100	1.3104	AVRG		0.66096		1.5130	8	15	0.050	0.99	
Ethyl tert-Butyl Ether (ETBE)		1.2704	1.3108	1.3243	1.2696	1.2294	1.2424	1.2136	1.1582	AVRG		0.79851		1.2523	4	15	0.050	0.99	
Methyl tert-Amyl Ether (TAME)		0.5398	0.5605	0.5577	0.5377	0.5206	0.5310	0.5208	0.4972	AVRG		1.87560		0.5332	4	15	0.050	0.99	
Cyclohexanone		0.0705	0.0692	0.0735	0.0404	0.0863	0.0817	0.0743	0.0738	LINR	1.91227	13.2402		0.0712	0.995	15	0.005	0.99	
Ethanol		0.0066m	0.0056	0.0050	0.0052	0.0058	0.0057	0.0054	0.0052	AVRG		179.809		0.0056	9	15	0.0005	0.99	
Isopropanol		0.0274m	0.0270m	0.0270	0.0257	0.0265	0.0279	0.0251	0.0248	AVRG		37.8452		0.0264	4	15	0.005	0.99	
Tetrahydrofuran		0.1488	0.1450	0.1366	0.1271	0.1242	0.1249	0.1136	0.1032	AVRG		7.81699		0.1279	12	15	0.005	0.99	
Dibromofluoromethane	0.6903	0.6825	0.6871	0.6940	0.6958	0.6881	0.6912	0.6983	0.6677	AVRG		1.45280		0.6883	1	15	0.050	0.99	
1,2-Dichloroethane-d4	0.3878	0.3862	0.3844	0.3905	0.3841	0.3802	0.3830	0.3874	0.3688	AVRG		2.60689		0.3836	2	15	0.050	0.99	
Trifluorotoluene	0.1687	0.1876	0.2145	0.1995	0.2269	0.2143	0.2318	0.2229	0.2124	AVRG		4.79060		0.2087	10	15	0.050	0.99	
Toluene-d8	1.0623	1.0699	1.0481	1.0434	1.0634	1.0730	1.0809	1.0695	1.0613	AVRG		0.94026		1.0635	1	15	0.050	0.99	
Bromofluorobenzene	1.4265	1.3907	1.4239	1.3448	1.3124	1.2785	1.2424	1.2304	1.2286	AVRG		0.75770		1.3198	6	15	0.050	0.99	

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irf=ICAL minimum RF failure m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression; QUAD=Quadratic regression

4961950440

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA10 Run Name: QC340174 IDF : 1.0
Seqnum : 496196333004 File : jeg04 Time : 16-MAY-2006 10:08
Cal : 496195044001 Caldate : 15-MAY-2006 Caltype : WATER
Standards: S3391 (10000X), S3342 (10000X), S3068 (10000X), S3046 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	0.3961	0.4237	25.00	26.74	ug/L	7	30	m
Chloromethane	0.5467	0.5054	25.00	23.11	ug/L	-8	30	
Vinyl Chloride	0.4040	0.3570	25.00	22.10	ug/L	-12	20	
Bromomethane	0.2721	0.3343	25.00	30.72	ug/L	**23**	30	!v+
Chloroethane	0.3516	0.3089	25.00	21.97	ug/L	-12	30	
Trichlorofluoromethane	0.5595	0.5001	25.00	22.35	ug/L	-11	30	
Acetone	0.1367	0.1171	25.00	21.42	ug/L	-14	40	
Freon 113	0.3202	0.3410	25.00	26.63	ug/L	7	30	
1,1-Dichloroethene	0.3241	0.3407	25.00	26.28	ug/L	5	20	
Methylene Chloride	0.4469	0.4552	25.00	25.46	ug/L	2	30	
Carbon Disulfide	1.4238	1.3249	25.00	23.26	ug/L	-7	30	
MTBE	1.1406	0.9854	25.00	21.60	ug/L	-14	30	
trans-1,2-Dichloroethene	0.3891	0.3871	25.00	24.87	ug/L	-1	30	
Vinyl Acetate	1.5093	1.3946	25.00	23.10	ug/L	-8	40	
1,1-Dichloroethane	0.7255	0.7003	25.00	24.13	ug/L	-3	30	
2-Butanone	0.2173	0.1989	25.00	22.88	ug/L	-8	40	
2,2-Dichloropropane	0.4737	0.4923	25.00	25.98	ug/L	4	30	
cis-1,2-Dichloroethene	0.4311	0.4384	25.00	25.42	ug/L	2	30	
Chloroform	0.6774	0.6690	25.00	24.69	ug/L	-1	20	
Bromochloromethane	0.2064	0.2134	25.00	25.85	ug/L	3	30	
1,1,1-Trichloroethane	0.4718	0.4781	25.00	25.33	ug/L	1	30	
1,1-Dichloropropene	0.2494	0.2648	25.00	26.55	ug/L	6	30	
Carbon Tetrachloride	0.1828	0.1939	25.00	26.52	ug/L	6	30	
1,2-Dichloroethane	0.2485	0.2600	25.00	26.16	ug/L	5	30	
Benzene	0.7690	0.7766	25.00	25.25	ug/L	1	30	
Trichloroethene	0.1910	0.2010	25.00	26.30	ug/L	5	30	
1,2-Dichloropropane	0.2268	0.2310	25.00	25.46	ug/L	2	20	
Bromodichloromethane	0.2459	0.2731	25.00	27.76	ug/L	11	30	
Dibromomethane	0.1407	0.1501	25.00	26.66	ug/L	7	30	
2-Chloroethylvinylether	0.0483	0.0020	25.00	2.373	ug/L	**-91**	40	v- ***
4-Methyl-2-Pentanone	0.2482	0.2371	25.00	23.88	ug/L	-4	40	
Tetramethyl THF	0.4416	0.3372	25.00	19.09	ug/L	**-24**	30	!v-
cis-1,3-Dichloropropene	0.3276	0.3591	25.00	27.40	ug/L	10	30	
Toluene	0.4411	0.4583	25.00	25.98	ug/L	4	20	
trans-1,3-Dichloropropene	0.2814	0.2900	25.00	25.77	ug/L	3	30	
1,1,2-Trichloroethane	0.1033	0.1134	25.00	27.44	ug/L	10	30	
2-Hexanone	0.1606	0.1609	25.00	25.04	ug/L	0	40	
1,3-Dichloropropane	0.3599	0.3789	25.00	26.32	ug/L	5	30	
Tetrachloroethene	0.1675	0.1817	25.00	27.12	ug/L	8	30	
Dibromochloromethane	0.2017	0.2292	25.00	28.41	ug/L	14	30	
1,2-Dibromoethane	0.2022	0.2212	25.00	27.35	ug/L	9	30	
Chlorobenzene	0.5548	0.5796	25.00	26.12	ug/L	4	30	
1,1,1,2-Tetrachloroethane	0.1767	0.1878	25.00	26.58	ug/L	6	30	
Ethylbenzene	0.9424	0.9716	25.00	25.78	ug/L	3	20	
m,p-Xylenes	0.3332	0.3533	50.00	53.02	ug/L	6	30	
o-Xylene	0.3244	0.3481	25.00	26.83	ug/L	7	30	
Styrene	0.5447	0.5940	25.00	27.26	ug/L	9	30	
Bromoform	0.1352	0.1448	25.00	26.77	ug/L	7	30	
Isopropylbenzene	2.1423	2.0349	25.00	23.75	ug/L	-5	30	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	0.8005	0.8205	25.00	25.62	ug/L	2	30	
1,2,3-Trichloropropane	0.6386	0.6715	25.00	26.29	ug/L	5	30	
Propylbenzene	2.5758	2.7138	25.00	26.34	ug/L	5	30	
Bromobenzene	0.5076	0.5276	25.00	25.98	ug/L	4	30	
1,3,5-Trimethylbenzene	1.3918	1.4520	25.00	26.08	ug/L	4	30	
2-Chlorotoluene	1.7638	1.7759	25.00	25.17	ug/L	1	30	
4-Chlorotoluene	1.5734	1.5930	25.00	25.31	ug/L	1	30	
tert-Butylbenzene	1.4604	1.5472	25.00	26.49	ug/L	6	30	m
1,2,4-Trimethylbenzene	1.2470	1.3283	25.00	26.63	ug/L	7	30	
sec-Butylbenzene	2.0094	2.2152	25.00	27.56	ug/L	10	30	
para-Isopropyl Toluene	1.2838	1.4079	25.00	27.42	ug/L	10	30	
1,3-Dichlorobenzene	0.8961	0.9346	25.00	26.07	ug/L	4	30	
1,4-Dichlorobenzene	0.8754	0.9225	25.00	26.35	ug/L	5	30	
n-Butylbenzene	0.9790	1.2013	25.00	26.01	ug/L	4	30	
1,2-Dichlorobenzene	0.8348	0.8967	25.00	26.85	ug/L	7	30	
1,2-Dibromo-3-Chloropropane	0.1158	0.1163	25.00	25.10	ug/L	0	30	
1,2,4-Trichlorobenzene	0.1745	0.2385	25.00	26.98	ug/L	8	30	
Hexachlorobutadiene	0.1198	0.1670	25.00	28.20	ug/L	13	30	
Naphthalene	0.4052	0.5782	25.00	29.20	ug/L	17	30	
1,2,3-Trichlorobenzene	0.1053	0.2059	25.00	29.22	ug/L	17	30	
tert-Butyl Alcohol (TBA)	0.0350	0.0323	125.0	115.1	ug/L	-8	30	
Isopropyl Ether (DIPE)	1.5130	1.3174	25.00	21.77	ug/L	-13	30	
Ethyl tert-Butyl Ether (ETBE)	1.2523	1.1500	25.00	22.96	ug/L	-8	30	
Methyl tert-Amyl Ether (TAME)	0.5332	0.5263	25.00	24.68	ug/L	-1	30	
Cyclohexanone	0.0712	0.0244	250.0	82.58	ug/L	-67	30	v- ***
Ethanol	0.0056	0.0047	2500	2101	ug/L	-16	30	
Isopropanol	0.0264	0.0226	250.0	213.5	ug/L	-15	30	
Tetrahydrofuran	0.1279	0.1163	250.0	227.3	ug/L	-9	30	

ISTD (ICAL jef18)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift	
Pentafluorobenzene	1236215	1417804	14.69	10.75	10.75	0.00	
1,4-Difluorobenzene	2490200	2792258	12.13	11.93	11.92	-0.01	
Chlorobenzene-d5	2250952	2506403	11.35	15.92	15.92	0.00	
1,4-Dichlorobenzene-d4	929075	1027476	10.59	18.62	18.62	0.00	

*=warning +=high bias -=low bias m=manual integration v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA10 Run Name: 25 PPB IDF : 1.0
Seqnum : 496220758002 File : jf202 Time : 02-JUN-2006 07:36
Cal : 496195044001 Caldate : 15-MAY-2006 Caltype : WATER
Standards: S3365 (20000X), S3592 (20000X), S3570 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.3961	0.4148	25.00	26.18	ug/L	5	30	0.0500	
Chloromethane	0.5467	0.4643	25.00	21.23	ug/L	-15	30	0.1000	
Vinyl Chloride	0.4040	0.3785	25.00	23.42	ug/L	-6	20	0.0500	
Bromomethane	0.2721	0.1504	25.00	13.82	ug/L	**-45**	30	0.0500	c- ***
Chloroethane	0.3516	0.3212	25.00	22.84	ug/L	-9	30	0.0500	
Trichlorofluoromethane	0.5595	0.4768	25.00	21.31	ug/L	-15	30	0.0500	
Acetone	0.1367	0.1337	25.00	24.46	ug/L	-2	40	0.0500	
Freon 113	0.3202	0.3377	25.00	26.37	ug/L	5	30	0.0500	
1,1-Dichloroethene	0.3241	0.3146	25.00	24.27	ug/L	-3	20	0.0500	
Methylene Chloride	0.4469	0.4414	25.00	24.69	ug/L	-1	30	0.0500	
Carbon Disulfide	1.4238	1.4632	25.00	25.69	ug/L	3	30	0.0500	
MTBE	1.1406	1.1298	25.00	24.76	ug/L	-1	30	0.0500	
trans-1,2-Dichloroethene	0.3891	0.3759	25.00	24.15	ug/L	-3	30	0.0500	
Vinyl Acetate	1.5093	1.6611	25.00	27.51	ug/L	10	40	0.0500	
1,1-Dichloroethane	0.7255	0.6696	25.00	23.07	ug/L	-8	30	0.1000	
2-Butanone	0.2173	0.2250	25.00	25.90	ug/L	4	40	0.0500	
2,2-Dichloropropane	0.4737	0.4610	25.00	24.33	ug/L	-3	30	0.0500	
cis-1,2-Dichloroethene	0.4311	0.4149	25.00	24.06	ug/L	-4	30	0.0500	
Chloroform	0.6774	0.6268	25.00	23.13	ug/L	-7	20	0.0500	
Bromochloromethane	0.2064	0.2114	25.00	25.61	ug/L	2	30	0.0500	
1,1,1-Trichloroethane	0.4718	0.4322	25.00	22.90	ug/L	-8	30	0.0500	
1,1-Dichloropropene	0.2494	0.2442	25.00	24.48	ug/L	-2	30	0.0500	
Carbon Tetrachloride	0.1828	0.1671	25.00	22.85	ug/L	-9	30	0.0500	
1,2-Dichloroethane	0.2485	0.2316	25.00	23.30	ug/L	-7	30	0.0500	
Benzene	0.7690	0.7394	25.00	24.04	ug/L	-4	30	0.0500	
Trichloroethene	0.1910	0.1788	25.00	23.40	ug/L	-6	30	0.0500	
1,2-Dichloropropane	0.2268	0.2239	25.00	24.69	ug/L	-1	20	0.0500	
Bromodichloromethane	0.2459	0.2363	25.00	24.02	ug/L	-4	30	0.0500	
Dibromomethane	0.1407	0.1412	25.00	25.08	ug/L	0	30	0.0500	
4-Methyl-2-Pentanone	0.2482	0.2396	25.00	24.13	ug/L	-3	40	0.0500	
Tetramethyl THF	0.4416	0.4417	25.00	25.01	ug/L	0	30	0.0500	
cis-1,3-Dichloropropene	0.3276	0.3288	25.00	25.09	ug/L	0	30	0.0500	
Toluene	0.4411	0.4247	25.00	24.07	ug/L	-4	20	0.0500	
trans-1,3-Dichloropropene	0.2814	0.2852	25.00	25.34	ug/L	1	30	0.0500	
1,1,2-Trichloroethane	0.1033	0.1026	25.00	24.83	ug/L	-1	30	0.0500	
2-Hexanone	0.1606	0.1661	25.00	25.85	ug/L	3	40	0.0500	
1,3-Dichloropropane	0.3599	0.3560	25.00	24.73	ug/L	-1	30	0.0500	
Tetrachloroethene	0.1675	0.1534	25.00	22.89	ug/L	-8	30	0.0500	
Dibromochloromethane	0.2017	0.1972	25.00	24.45	ug/L	-2	30	0.0500	
1,2-Dibromoethane	0.2022	0.1991	25.00	24.61	ug/L	-2	30	0.0500	
Chlorobenzene	0.5548	0.5215	25.00	23.50	ug/L	-6	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1767	0.1656	25.00	23.43	ug/L	-6	30	0.0500	
Ethylbenzene	0.9424	0.8760	25.00	23.24	ug/L	-7	20	0.0500	
m,p-Xylenes	0.3332	0.3169	50.00	47.56	ug/L	-5	30	0.0500	
o-Xylene	0.3244	0.3140	25.00	24.20	ug/L	-3	30	0.0500	
Styrene	0.5447	0.5556	25.00	25.50	ug/L	2	30	0.0500	
Bromoform	0.1352	0.1247	25.00	23.06	ug/L	-8	30	0.1000	
Isopropylbenzene	2.1423	1.9527	25.00	22.79	ug/L	-9	30	0.0500	
1,1,2,2-Tetrachloroethane	0.8005	0.7837	25.00	24.48	ug/L	-2	30	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.6386	0.6284	25.00	24.60	ug/L	-2	30	0.0500	
Propylbenzene	2.5758	2.4279	25.00	23.56	ug/L	-6	30	0.0500	
Bromobenzene	0.5076	0.4634	25.00	22.82	ug/L	-9	30	0.0500	
1,3,5-Trimethylbenzene	1.3918	1.3199	25.00	23.71	ug/L	-5	30	0.0500	
2-Chlorotoluene	1.7638	1.5882	25.00	22.51	ug/L	-10	30	0.0500	
4-Chlorotoluene	1.5734	1.4595	25.00	23.19	ug/L	-7	30	0.0500	
tert-Butylbenzene	1.4604	1.2355	25.00	21.15	ug/L	-15	30	0.0500	
1,2,4-Trimethylbenzene	1.2470	1.2256	25.00	24.57	ug/L	-2	30	0.0500	
sec-Butylbenzene	2.0094	1.9222	25.00	23.91	ug/L	-4	30	0.0500	
para-Isopropyl Toluene	1.2838	1.2913	25.00	25.15	ug/L	1	30	0.0500	
1,3-Dichlorobenzene	0.8961	0.8252	25.00	23.02	ug/L	-8	30	0.0500	
1,4-Dichlorobenzene	0.8754	0.8469	25.00	24.19	ug/L	-3	30	0.0500	
n-Butylbenzene	0.9790	1.1374	25.00	24.70	ug/L	-1	30	0.0500	
1,2-Dichlorobenzene	0.8348	0.7934	25.00	23.76	ug/L	-5	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1158	0.1078	25.00	23.27	ug/L	-7	30	0.0500	
1,2,4-Trichlorobenzene	0.1745	0.2399	25.00	27.12	ug/L	8	30	0.0500	
Hexachlorobutadiene	0.1198	0.1312	25.00	22.45	ug/L	-10	30	0.0500	
Naphthalene	0.4052	0.5867	25.00	29.56	ug/L	18	30	0.0500	
1,2,3-Trichlorobenzene	0.1053	0.2112	25.00	29.80	ug/L	19	30	0.0500	?curve-
tert-Butyl Alcohol (TBA)	0.0350	0.0369	250.0	263.5	ug/L	5	30	0.0050	
Isopropyl Ether (DIPE)	1.5130	1.4626	25.00	24.17	ug/L	-3	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.2523	1.2413	25.00	24.78	ug/L	-1	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.5332	0.5334	25.00	25.01	ug/L	0	30	0.0500	
Cyclohexanone	0.0712	0.0596	250.0	199.2	ug/L	-20	30	0.0050	
Ethanol	0.0056	0.0059	2500	2643	ug/L	6	30	5.0E-4	
Isopropanol	0.0264	0.0262	250.0	248.2	ug/L	-1	30	0.0050	
Tetrahydrofuran	0.1279	0.1316	250.0	257.1	ug/L	3	30	0.0050	
Dibromofluoromethane	0.6883	0.7100	50.00	51.57	ug/L	3	30	0.0500	
1,2-Dichloroethane-d4	0.3836	0.3698	50.00	48.21	ug/L	-4	30	0.0500	
Trifluorotoluene	0.2087	0.2111	25.00	25.28	ug/L	1	30	0.0500	
Toluene-d8	1.0635	1.1251	50.00	52.90	ug/L	6	30	0.0500	
Bromofluorobenzene	1.3198	1.2945	50.00	49.04	ug/L	-2	30	0.0500	

ISTD (ICAL jef18)	ICAL Area	Area	%Drift	ICAL RT	RT'	Drift
Pentafluorobenzene	1236215	1283372	3.81	10.75	10.73	-0.02
1,4-Difluorobenzene	2490200	2613367	4.95	11.93	11.92	-0.01
Chlorobenzene-d5	2250952	2345212	4.19	15.92	15.91	-0.01
1,4-Dichlorobenzene-d4	929075	927977	-0.12	18.62	18.61	-0.01

06/05/06

6/5/06

-=low bias ?curve=check curve c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA10 Run Name: 25PPB IDF : 1.0
Seqnum : 496220758006 File : jf206 Time : 02-JUN-2006 09:45
Cal : 496195044001 Caldate : 15-MAY-2006 Caltype : WATER
Standards: S3570 (5000X), S3365 (20000X), S3592 (20000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.3961	0.4294	25.00	27.10	ug/L	8	30	0.0500	
Chloromethane	0.5467	0.4831	25.00	22.09	ug/L	-12	30	0.1000	
Vinyl Chloride	0.4040	0.3567	25.00	22.08	ug/L	-12	20	0.0500	
Bromomethane	0.2721	0.2315	25.00	21.27	ug/L	-15	30	0.0500	
Chloroethane	0.3516	0.3325	25.00	23.64	ug/L	-5	30	0.0500	
Trichlorofluoromethane	0.5595	0.5025	25.00	22.45	ug/L	-10	30	0.0500	
Acetone	0.1367	0.1236	25.00	22.60	ug/L	-10	40	0.0500	
Freon 113	0.3202	0.3577	25.00	27.93	ug/L	12	30	0.0500	
1,1-Dichloroethene	0.3241	0.3493	25.00	26.94	ug/L	8	20	0.0500	
Methylene Chloride	0.4469	0.4471	25.00	25.01	ug/L	0	30	0.0500	
Carbon Disulfide	1.4238	1.5768	25.00	27.69	ug/L	11	30	0.0500	
MTBE	1.1406	1.1205	25.00	24.56	ug/L	-2	30	0.0500	
trans-1,2-Dichloroethene	0.3891	0.4064	25.00	26.11	ug/L	4	30	0.0500	
Vinyl Acetate	1.5093	1.6545	25.00	27.40	ug/L	10	40	0.0500	
1,1-Dichloroethane	0.7255	0.7190	25.00	24.78	ug/L	-1	30	0.1000	
2-Butanone	0.2173	0.2131	25.00	24.53	ug/L	-2	40	0.0500	
2,2-Dichloropropane	0.4737	0.4727	25.00	24.95	ug/L	0	30	0.0500	
cis-1,2-Dichloroethene	0.4311	0.4379	25.00	25.39	ug/L	2	30	0.0500	
Chloroform	0.6774	0.6537	25.00	24.12	ug/L	-4	20	0.0500	
Bromochloromethane	0.2064	0.2136	25.00	25.88	ug/L	4	30	0.0500	
1,1,1-Trichloroethane	0.4718	0.4547	25.00	24.09	ug/L	-4	30	0.0500	
1,1-Dichloropropene	0.2494	0.2533	25.00	25.40	ug/L	2	30	0.0500	
Carbon Tetrachloride	0.1828	0.1791	25.00	24.50	ug/L	-2	30	0.0500	
1,2-Dichloroethane	0.2485	0.2352	25.00	23.66	ug/L	-5	30	0.0500	
Benzene	0.7690	0.7482	25.00	24.32	ug/L	-3	30	0.0500	
Trichloroethene	0.1910	0.1899	25.00	24.86	ug/L	-1	30	0.0500	
1,2-Dichloropropane	0.2268	0.2247	25.00	24.78	ug/L	-1	20	0.0500	
Bromodichloromethane	0.2459	0.2453	25.00	24.93	ug/L	0	30	0.0500	
Dibromomethane	0.1407	0.1439	25.00	25.56	ug/L	2	30	0.0500	
4-Methyl-2-Pentanone	0.2482	0.2332	25.00	23.49	ug/L	-6	40	0.0500	
Tetramethyl THF	0.4416	0.4513	25.00	25.55	ug/L	2	30	0.0500	
cis-1,3-Dichloropropene	0.3276	0.3335	25.00	25.45	ug/L	2	30	0.0500	
Toluene	0.4411	0.4344	25.00	24.62	ug/L	-2	20	0.0500	
trans-1,3-Dichloropropene	0.2814	0.2889	25.00	25.67	ug/L	3	30	0.0500	
1,1,2-Trichloroethane	0.1033	0.1056	25.00	25.56	ug/L	2	30	0.0500	
2-Hexanone	0.1606	0.1672	25.00	26.02	ug/L	4	40	0.0500	
1,3-Dichloropropane	0.3599	0.3624	25.00	25.18	ug/L	1	30	0.0500	
Tetrachloroethene	0.1675	0.1608	25.00	23.99	ug/L	-4	30	0.0500	
Dibromochloromethane	0.2017	0.2015	25.00	24.98	ug/L	0	30	0.0500	
1,2-Dibromoethane	0.2022	0.1991	25.00	24.62	ug/L	-2	30	0.0500	
Chlorobenzene	0.5548	0.5427	25.00	24.46	ug/L	-2	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1767	0.1707	25.00	24.15	ug/L	-3	30	0.0500	
Ethylbenzene	0.9424	0.9076	25.00	24.08	ug/L	-4	20	0.0500	
m,p-Xylenes	0.3332	0.3292	50.00	49.40	ug/L	-1	30	0.0500	
o-Xylene	0.3244	0.3254	25.00	25.08	ug/L	0	30	0.0500	
Styrene	0.5447	0.5798	25.00	26.61	ug/L	6	30	0.0500	
Bromoform	0.1352	0.1235	25.00	22.84	ug/L	-9	30	0.1000	
Isopropylbenzene	2.1423	2.0031	25.00	23.38	ug/L	-6	30	0.0500	
1,1,2,2-Tetrachloroethane	0.8005	0.7774	25.00	24.28	ug/L	-3	30	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.6386	0.5997	25.00	23.48	ug/L	-6	30	0.0500	
Propylbenzene	2.5758	2.5309	25.00	24.56	ug/L	-2	30	0.0500	
Bromobenzene	0.5076	0.4810	25.00	23.69	ug/L	-5	30	0.0500	
1,3,5-Trimethylbenzene	1.3918	1.4103	25.00	25.33	ug/L	1	30	0.0500	
2-Chlorotoluene	1.7638	1.6600	25.00	23.53	ug/L	-6	30	0.0500	
4-Chlorotoluene	1.5734	1.5241	25.00	24.22	ug/L	-3	30	0.0500	
tert-Butylbenzene	1.4604	1.3108	25.00	22.44	ug/L	-10	30	0.0500	
1,2,4-Trimethylbenzene	1.2470	1.3058	25.00	26.18	ug/L	5	30	0.0500	
sec-Butylbenzene	2.0094	2.0279	25.00	25.23	ug/L	1	30	0.0500	
para-Isopropyl Toluene	1.2838	1.3687	25.00	26.65	ug/L	7	30	0.0500	
1,3-Dichlorobenzene	0.8961	0.8661	25.00	24.16	ug/L	-3	30	0.0500	
1,4-Dichlorobenzene	0.8754	0.8510	25.00	24.30	ug/L	-3	30	0.0500	
n-Butylbenzene	0.9790	1.1983	25.00	25.95	ug/L	4	30	0.0500	
1,2-Dichlorobenzene	0.8348	0.8160	25.00	24.44	ug/L	-2	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1158	0.1121	25.00	24.20	ug/L	-3	30	0.0500	
1,2,4-Trichlorobenzene	0.1745	0.2531	25.00	28.42	ug/L	14	30	0.0500	
Hexachlorobutadiene	0.1198	0.1336	25.00	22.82	ug/L	-9	30	0.0500	
Naphthalene	0.4052	0.6506	25.00	32.14	ug/L	**29**	30	0.0500	!c+
1,2,3-Trichlorobenzene	0.1053	0.2242	25.00	31.21	ug/L	**25**	30	0.0500	!c+ ?curve-
tert-Butyl Alcohol (TBA)	0.0350	0.0363	250.0	259.4	ug/L	4	30	0.0050	
Isopropyl Ether (DIPE)	1.5130	1.5044	25.00	24.86	ug/L	-1	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.2523	1.2922	25.00	25.79	ug/L	3	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.5332	0.5380	25.00	25.23	ug/L	1	30	0.0500	
Cyclohexanone	0.0712	0.0564	250.0	188.6	ug/L	**-25**	30	0.0050	!c-
Ethanol	0.0056	0.0057	2500	2540	ug/L	2	30	5.0E-4	
Isopropanol	0.0264	0.0254	250.0	240.0	ug/L	-4	30	0.0050	
Tetrahydrofuran	0.1279	0.1287	250.0	251.5	ug/L	1	30	0.0050	
Dibromofluoromethane	0.6883	0.7248	50.00	52.65	ug/L	5	30	0.0500	
1,2-Dichloroethane-d4	0.3836	0.3748	50.00	48.85	ug/L	-2	30	0.0500	
Trifluorotoluene	0.2087	0.2117	25.00	25.36	ug/L	1	30	0.0500	
Toluene-d8	1.0635	1.1115	50.00	52.25	ug/L	5	30	0.0500	
Bromofluorobenzene	1.3198	1.2971	50.00	49.14	ug/L	-2	30	0.0500	

ISTD (ICAL jef18)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1236215	1239617	0.28	10.75	10.73	-0.02
1,4-Difluorobenzene	2490200	2541250	2.05	11.93	11.91	-0.02
Chlorobenzene-d5	2250952	2255138	0.19	15.92	15.91	-0.01
1,4-Dichlorobenzene-d4	929075	898444	-3.30	18.62	18.60	-0.02

6/2/02

!=warning +=high bias -=low bias ?curve=check curve c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA10 Run Name: 20PPB IDF : 1.0
Seqnum : 496225264003 File : jf503 Time : 05-JUN-2006 11:11
Cal : 496195044001 Caldate : 15-MAY-2006 Caltype : WATER
Standards: S3536 (25000X), S3592 (25000X), S3570 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.3961	0.4309	20.00	21.76	ug/L	9	30	0.0500	
Chloromethane	0.5467	0.5172	20.00	18.92	ug/L	-5	30	0.1000	
Vinyl Chloride	0.4040	0.4020	20.00	19.90	ug/L	0	20	0.0500	
Bromomethane	0.2721	0.2518	20.00	18.51	ug/L	-7	30	0.0500	
Chloroethane	0.3516	0.3339	20.00	18.99	ug/L	-5	30	0.0500	m
Trichlorofluoromethane	0.5595	0.4929	20.00	17.62	ug/L	-12	30	0.0500	
Acetone	0.1367	0.1555	20.00	22.75	ug/L	14	40	0.0500	
Freon 113	0.3202	0.3291	20.00	20.56	ug/L	3	30	0.0500	
1,1-Dichloroethene	0.3241	0.3416	20.00	21.08	ug/L	5	20	0.0500	
Methylene Chloride	0.4469	0.4686	20.00	20.97	ug/L	5	30	0.0500	
Carbon Disulfide	1.4238	1.5262	20.00	21.44	ug/L	7	30	0.0500	
MTBE	1.1406	1.1776	20.00	20.65	ug/L	3	30	0.0500	
trans-1,2-Dichloroethene	0.3891	0.3933	20.00	20.21	ug/L	1	30	0.0500	
Vinyl Acetate	1.5093	1.7547	20.00	23.25	ug/L	16	40	0.0500	
1,1-Dichloroethane	0.7255	0.7284	20.00	20.08	ug/L	0	30	0.1000	
2-Butanone	0.2173	0.2386	20.00	21.97	ug/L	10	40	0.0500	
2,2-Dichloropropane	0.4737	0.4755	20.00	20.08	ug/L	0	30	0.0500	
cis-1,2-Dichloroethene	0.4311	0.4387	20.00	20.35	ug/L	2	30	0.0500	
Chloroform	0.6774	0.6605	20.00	19.50	ug/L	-2	20	0.0500	
Bromochloromethane	0.2064	0.2165	20.00	20.98	ug/L	5	30	0.0500	
1,1,1-Trichloroethane	0.4718	0.4457	20.00	18.89	ug/L	-6	30	0.0500	
1,1-Dichloropropene	0.2494	0.2439	20.00	19.56	ug/L	-2	30	0.0500	
Carbon Tetrachloride	0.1828	0.1698	20.00	18.57	ug/L	-7	30	0.0500	
1,2-Dichloroethane	0.2485	0.2389	20.00	19.23	ug/L	-4	30	0.0500	
Benzene	0.7690	0.7510	20.00	19.53	ug/L	-2	30	0.0500	
Trichloroethene	0.1910	0.1841	20.00	19.28	ug/L	-4	30	0.0500	
1,2-Dichloropropane	0.2268	0.2231	20.00	19.68	ug/L	-2	20	0.0500	
Bromodichloromethane	0.2459	0.2435	20.00	19.80	ug/L	-1	30	0.0500	
Dibromomethane	0.1407	0.1451	20.00	20.62	ug/L	3	30	0.0500	
4-Methyl-2-Pentanone	0.2482	0.2742	20.00	22.09	ug/L	10	40	0.0500	
Tetramethyl THF	0.4416	0.4307	20.00	19.50	ug/L	-2	30	0.0500	
cis-1,3-Dichloropropene	0.3276	0.3358	20.00	20.50	ug/L	3	30	0.0500	
Toluene	0.4411	0.4222	20.00	19.14	ug/L	-4	20	0.0500	
trans-1,3-Dichloropropene	0.2814	0.2912	20.00	20.70	ug/L	3	30	0.0500	
1,1,2-Trichloroethane	0.1033	0.1072	20.00	20.75	ug/L	4	30	0.0500	
2-Hexanone	0.1606	0.1674	20.00	20.85	ug/L	4	40	0.0500	
1,3-Dichloropropane	0.3599	0.3673	20.00	20.41	ug/L	2	30	0.0500	
Tetrachloroethene	0.1675	0.1545	20.00	18.44	ug/L	-8	30	0.0500	
Dibromochloromethane	0.2017	0.2029	20.00	20.12	ug/L	1	30	0.0500	
1,2-Dibromoethane	0.2022	0.2088	20.00	20.66	ug/L	3	30	0.0500	
Chlorobenzene	0.5548	0.5276	20.00	19.02	ug/L	-5	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1767	0.1673	20.00	18.93	ug/L	-5	30	0.0500	
Ethylbenzene	0.9424	0.8801	20.00	18.68	ug/L	-7	20	0.0500	
m,p-Xylenes	0.3332	0.3182	40.00	38.19	ug/L	-5	30	0.0500	
o-Xylene	0.3244	0.3155	20.00	19.45	ug/L	-3	30	0.0500	
Styrene	0.5447	0.5568	20.00	20.44	ug/L	2	30	0.0500	
Bromoform	0.1352	0.1288	20.00	19.06	ug/L	-5	30	0.1000	
Isopropylbenzene	2.1423	2.0369	20.00	19.02	ug/L	-5	30	0.0500	
1,1,2,2-Tetrachloroethane	0.8005	0.8275	20.00	20.67	ug/L	3	30	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.6386	0.6629	20.00	20.76	ug/L	4	30	0.0500	
Propylbenzene	2.5758	2.4744	20.00	19.21	ug/L	-4	30	0.0500	
Bromobenzene	0.5076	0.4849	20.00	19.11	ug/L	-4	30	0.0500	
1,3,5-Trimethylbenzene	1.3918	1.3387	20.00	19.24	ug/L	-4	30	0.0500	
2-Chlorotoluene	1.7638	1.6352	20.00	18.54	ug/L	-7	30	0.0500	
4-Chlorotoluene	1.5734	1.5027	20.00	19.10	ug/L	-4	30	0.0500	
tert-Butylbenzene	1.4604	1.3599	20.00	18.62	ug/L	-7	30	0.0500	m
1,2,4-Trimethylbenzene	1.2470	1.2535	20.00	20.10	ug/L	1	30	0.0500	
sec-Butylbenzene	2.0094	1.9578	20.00	19.49	ug/L	-3	30	0.0500	
para-Isopropyl Toluene	1.2838	1.3026	20.00	20.29	ug/L	1	30	0.0500	
1,3-Dichlorobenzene	0.8961	0.8349	20.00	18.63	ug/L	-7	30	0.0500	
1,4-Dichlorobenzene	0.8754	0.8440	20.00	19.28	ug/L	-4	30	0.0500	
n-Butylbenzene	0.9790	1.1470	20.00	20.17	ug/L	1	30	0.0500	
1,2-Dichlorobenzene	0.8348	0.8207	20.00	19.66	ug/L	-2	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1158	0.1142	20.00	19.72	ug/L	-1	30	0.0500	
1,2,4-Trichlorobenzene	0.1745	0.2469	20.00	22.88	ug/L	14	30	0.0500	
Hexachlorobutadiene	0.1198	0.1214	20.00	16.94	ug/L	-15	30	0.0500	
Naphthalene	0.4052	0.6133	20.00	25.46	ug/L	**27**	30	0.0500	!c+
1,2,3-Trichlorobenzene	0.1053	0.2172	20.00	25.53	ug/L	**28**	30	0.0500	!c+ ?curve-
tert-Butyl Alcohol (TBA)	0.0350	0.0399	200.0	227.9	ug/L	14	30	0.0050	
Isopropyl Ether (DIPE)	1.5130	1.5638	20.00	20.67	ug/L	3	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.2523	1.3120	20.00	20.95	ug/L	5	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.5332	0.5458	20.00	20.47	ug/L	2	30	0.0500	
Cyclohexanone	0.0712	0.0647	200.0	173.2	ug/L	-13	30	0.0050	
Ethanol	0.0056	0.0063	2000	2259	ug/L	13	30	5.0E-4	
Isopropanol	0.0264	0.0292	200.0	221.3	ug/L	11	30	0.0050	
Tetrahydrofuran	0.1279	0.1401	200.0	219.0	ug/L	10	30	0.0050	
Dibromofluoromethane	0.6883	0.7233	50.00	52.54	ug/L	5	30	0.0500	
1,2-Dichloroethane-d4	0.3836	0.3869	50.00	50.43	ug/L	1	30	0.0500	
Trifluorotoluene	0.2087	0.1979	20.00	18.96	ug/L	-5	30	0.0500	
Toluene-d8	1.0635	1.1154	50.00	52.44	ug/L	5	30	0.0500	
Bromofluorobenzene	1.3198	1.3090	50.00	49.59	ug/L	-1	30	0.0500	

ISTD (ICAL jef18)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1236215	1203496	-2.65	10.75	10.74	-0.01
1,4-Difluorobenzene	2490200	2509425	0.77	11.93	11.92	-0.01
Chlorobenzene-d5	2250952	2237979	-0.58	15.92	15.91	-0.01
1,4-Dichlorobenzene-d4	929075	883240	-4.93	18.62	18.61	-0.01

MCW 6/6/04

6/5/06

!=warning +=high bias -=low bias ?curve=check curve c=CCV m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA10 Run Name: 20PPB IDF : 1.0
Seqnum : 496225264011 File : jf511 Time : 05-JUN-2006 15:57
Cal : 496195044001 Caldate : 15-MAY-2006 Caltype : WATER
Standards: S3570 (5000X), S3536 (25000X), S3592 (25000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.3961	0.4552	20.00	22.98	ug/L	15	30	0.0500	
Chloromethane	0.5467	0.6158	20.00	22.53	ug/L	13	30	0.1000	
Vinyl Chloride	0.4040	0.4231	20.00	20.95	ug/L	5	20	0.0500	
Bromomethane	0.2721	0.3097	20.00	22.76	ug/L	14	30	0.0500	
Chloroethane	0.3516	0.3695	20.00	21.02	ug/L	5	30	0.0500	
Trichlorofluoromethane	0.5595	0.5151	20.00	18.41	ug/L	-8	30	0.0500	
Acetone	0.1367	0.1286	20.00	18.81	ug/L	-6	40	0.0500	
Freon 113	0.3202	0.3328	20.00	20.79	ug/L	4	30	0.0500	
1,1-Dichloroethene	0.3241	0.3434	20.00	21.19	ug/L	6	20	0.0500	
Methylene Chloride	0.4469	0.4783	20.00	21.40	ug/L	7	30	0.0500	
Carbon Disulfide	1.4238	1.5849	20.00	22.26	ug/L	11	30	0.0500	
MTBE	1.1406	1.1497	20.00	20.16	ug/L	1	30	0.0500	
trans-1,2-Dichloroethene	0.3891	0.4199	20.00	21.58	ug/L	8	30	0.0500	
Vinyl Acetate	1.5093	1.7334	20.00	22.97	ug/L	15	40	0.0500	
1,1-Dichloroethane	0.7255	0.7462	20.00	20.57	ug/L	3	30	0.1000	
2-Butanone	0.2173	0.2126	20.00	19.57	ug/L	-2	40	0.0500	
2,2-Dichloropropane	0.4737	0.4315	20.00	18.22	ug/L	-9	30	0.0500	
cis-1,2-Dichloroethene	0.4311	0.4306	20.00	19.98	ug/L	0	30	0.0500	
Chloroform	0.6774	0.6695	20.00	19.77	ug/L	-1	20	0.0500	
Bromochloromethane	0.2064	0.2176	20.00	21.09	ug/L	5	30	0.0500	
1,1,1-Trichloroethane	0.4718	0.4598	20.00	19.49	ug/L	-3	30	0.0500	
1,1-Dichloropropene	0.2494	0.2453	20.00	19.67	ug/L	-2	30	0.0500	
Carbon Tetrachloride	0.1828	0.1728	20.00	18.90	ug/L	-5	30	0.0500	
1,2-Dichloroethane	0.2485	0.2375	20.00	19.11	ug/L	-4	30	0.0500	
Benzene	0.7690	0.7658	20.00	19.92	ug/L	0	30	0.0500	
Trichloroethene	0.1910	0.1883	20.00	19.71	ug/L	-1	30	0.0500	
1,2-Dichloropropane	0.2268	0.2290	20.00	20.19	ug/L	1	20	0.0500	
Bromodichloromethane	0.2459	0.2451	20.00	19.93	ug/L	0	30	0.0500	
Dibromomethane	0.1407	0.1436	20.00	20.40	ug/L	2	30	0.0500	
4-Methyl-2-Pentanone	0.2482	0.2393	20.00	19.28	ug/L	-4	40	0.0500	
Tetramethyl THF	0.4416	0.4695	20.00	21.26	ug/L	6	30	0.0500	
cis-1,3-Dichloropropene	0.3276	0.3321	20.00	20.27	ug/L	1	30	0.0500	
Toluene	0.4411	0.4393	20.00	19.92	ug/L	0	20	0.0500	
trans-1,3-Dichloropropene	0.2814	0.2846	20.00	20.23	ug/L	1	30	0.0500	
1,1,2-Trichloroethane	0.1033	0.1049	20.00	20.32	ug/L	2	30	0.0500	
2-Hexanone	0.1606	0.1606	20.00	20.00	ug/L	0	40	0.0500	
1,3-Dichloropropane	0.3599	0.3574	20.00	19.86	ug/L	-1	30	0.0500	
Tetrachloroethene	0.1675	0.1558	20.00	18.60	ug/L	-7	30	0.0500	
Dibromochloromethane	0.2017	0.1994	20.00	19.77	ug/L	-1	30	0.0500	
1,2-Dibromoethane	0.2022	0.2013	20.00	19.91	ug/L	0	30	0.0500	
Chlorobenzene	0.5548	0.5401	20.00	19.47	ug/L	-3	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1767	0.1689	20.00	19.12	ug/L	-4	30	0.0500	
Ethylbenzene	0.9424	0.9097	20.00	19.31	ug/L	-3	20	0.0500	
m,p-Xylenes	0.3332	0.3300	40.00	39.62	ug/L	-1	30	0.0500	
o-Xylene	0.3244	0.3269	20.00	20.16	ug/L	1	30	0.0500	
Styrene	0.5447	0.5758	20.00	21.14	ug/L	6	30	0.0500	
Bromoform	0.1352	0.1248	20.00	18.46	ug/L	-8	30	0.1000	
Isopropylbenzene	2.1423	2.0022	20.00	18.69	ug/L	-7	30	0.0500	
1,1,2,2-Tetrachloroethane	0.8005	0.7627	20.00	19.05	ug/L	-5	30	0.3000	

Amy 6/6/06

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.6386	0.6310	20.00	19.76	ug/L	-1	30	0.0500	
Propylbenzene	2.5758	2.4998	20.00	19.41	ug/L	-3	30	0.0500	
Bromobenzene	0.5076	0.4651	20.00	18.32	ug/L	-8	30	0.0500	
1,3,5-Trimethylbenzene	1.3918	1.3740	20.00	19.74	ug/L	-1	30	0.0500	
2-Chlorotoluene	1.7638	1.6481	20.00	18.69	ug/L	-7	30	0.0500	
4-Chlorotoluene	1.5734	1.5174	20.00	19.29	ug/L	-4	30	0.0500	
tert-Butylbenzene	1.4604	1.3045	20.00	17.87	ug/L	-11	30	0.0500	
1,2,4-Trimethylbenzene	1.2470	1.2904	20.00	20.70	ug/L	3	30	0.0500	
sec-Butylbenzene	2.0094	1.9787	20.00	19.69	ug/L	-2	30	0.0500	
para-Isopropyl Toluene	1.2838	1.3024	20.00	20.29	ug/L	1	30	0.0500	
1,3-Dichlorobenzene	0.8961	0.8630	20.00	19.26	ug/L	-4	30	0.0500	
1,4-Dichlorobenzene	0.8754	0.8556	20.00	19.55	ug/L	-2	30	0.0500	
n-Butylbenzene	0.9790	1.1266	20.00	19.83	ug/L	-1	30	0.0500	
1,2-Dichlorobenzene	0.8348	0.8062	20.00	19.31	ug/L	-3	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1158	0.1126	20.00	19.44	ug/L	-3	30	0.0500	
1,2,4-Trichlorobenzene	0.1745	0.2350	20.00	21.91	ug/L	10	30	0.0500	
Hexachlorobutadiene	0.1198	0.1189	20.00	16.62	ug/L	-17	30	0.0500	
Naphthalene	0.4052	0.6048	20.00	25.16	ug/L	**26**	30	0.0500	!c+
1,2,3-Trichlorobenzene	0.1053	0.2105	20.00	24.89	ug/L	**24**	30	0.0500	!c+ ?curve-
tert-Butyl Alcohol (TBA)	0.0350	0.0374	200.0	213.4	ug/L	7	30	0.0050	
Isopropyl Ether (DIPE)	1.5130	1.5620	20.00	20.65	ug/L	3	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.2523	1.3149	20.00	21.00	ug/L	5	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.5332	0.5384	20.00	20.20	ug/L	1	30	0.0500	
Cyclohexanone	0.0712	0.0307	200.0	83.15	ug/L	**-58**	30	0.0050	c- ***
Ethanol	0.0056	0.0056	2000	2012	ug/L	1	30	5.0E-4	
Isopropanol	0.0264	0.0269	200.0	203.2	ug/L	2	30	0.0050	
Tetrahydrofuran	0.1279	0.1332	200.0	208.2	ug/L	4	30	0.0050	
Dibromofluoromethane	0.6883	0.7196	50.00	52.27	ug/L	5	30	0.0500	
1,2-Dichloroethane-d4	0.3836	0.3839	50.00	50.04	ug/L	0	30	0.0500	
Trifluorotoluene	0.2087	0.2040	20.00	19.55	ug/L	-2	30	0.0500	
Toluene-d8	1.0635	1.1282	50.00	53.04	ug/L	6	30	0.0500	
Bromofluorobenzene	1.3198	1.2876	50.00	48.78	ug/L	-2	30	0.0500	

ISTD (ICAL jef18)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1236215	1184046	-4.22	10.75	10.74	-0.01
1,4-Difluorobenzene	2490200	2451260	-1.56	11.93	11.93	0.00
Chlorobenzene-d5	2250952	2211463	-1.75	15.92	15.92	0.00
1,4-Dichlorobenzene-d4	929075	900804	-3.04	18.62	18.62	0.00

6/5/06

!=warning +=high bias -=low bias ?curve=check curve c=CCV

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 02-JUN-2006
Sequence: 496220758 (jf2)
Instrument ID: MSVOA10

ICAL Filename: jef18
Date Analyzed: 15-MAY-2006
Time Analyzed: 21:51

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	1236215	10.75	2490200	11.93	2250952	15.92	929075	18.62
LOWER LIMIT	618108	10.25	1245100	11.43	1125476	15.42	464538	18.12
UPPER LIMIT	2472430	11.25	4980400	12.43	4501904	16.42	1858150	19.12

TYPE	SAMPLE	#								
CCV	25 PPB	002	1283372	10.73	2613367	11.92	2345212	15.91	927977	18.61
BS	QC342489	003	1286344	10.73	2586902	11.91	2304004	15.91	935898	18.61
BSD	QC342490	004	1231455	10.73	2509858	11.91	2244457	15.91	925238	18.61
CCV	25PPB	006	1239617	10.73	2541250	11.91	2255138	15.91	898444	18.60
BLANK	QC342491	008	1160947	10.73	2394704	11.91	2139408	15.91	814453	18.61
SAMPLE	187065-018	009	1151214	10.73	2392976	11.91	2139669	15.91	804717	18.61
SAMPLE	187112-017	010	1151360	10.73	2364411	11.91	2116020	15.91	776081	18.61
SAMPLE	187112-013	011	1183509	10.74	2433000	11.92	2145357	15.91	824568	18.61
SAMPLE	187112-014	012	1145690	10.73	2374578	11.91	2107114	15.91	793855	18.60
SAMPLE	187093-005	013	1142383	10.73	2354922	11.91	2098009	15.90	805795	18.61
SAMPLE	187053-003	014	1037508	10.73	2163194	11.91	1961576	15.91	818701	18.61
SAMPLE	187065-001	015	1129213	10.73	2326294	11.91	2097980	15.91	816060	18.61
SAMPLE	187065-004	016	1128655	10.73	2346888	11.91	2089902	15.91	787405	18.61
SAMPLE	187065-005	017	1087988	10.73	2259580	11.91	2026840	15.91	777246	18.61
SAMPLE	187065-006	018	1083146	10.73	2238102	11.92	2006128	15.91	759709	18.62
SAMPLE	187065-009	019	1060250	10.73	2199623	11.91	1967487	15.91	759272	18.61
SAMPLE	187065-012	020	1030333	10.73	2164828	11.91	1933844	15.91	804762	18.61
SAMPLE	187065-013	021	1226848	10.73	2504952	11.91	2271281	15.91	931723	18.61
SAMPLE	187065-014	022	1227282	10.74	2552384	11.92	2232201	15.91	898407	18.61
SAMPLE	187065-011	023	1226385	10.73	2493984	11.91	2222666	15.91	877251	18.61
SAMPLE	187181-001	024	1219437	10.73	2520669	11.92	2219805	15.92	866178	18.61
SAMPLE	187181-002	025	1183133	10.73	2461934	11.91	2193968	15.91	852754	18.61

6/15/06

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 05-JUN-2006
Sequence: 496225264 (jf5)
Instrument ID: MSVOA10

ICAL Filename: jef18
Date Analyzed: 15-MAY-2006
Time Analyzed: 21:51

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	1236215	10.75	2490200	11.93	2250952	15.92	929075	18.62
LOWER LIMIT	618108	10.25	1245100	11.43	1125476	15.42	464538	18.12
UPPER LIMIT	2472430	11.25	4980400	12.43	4501904	16.42	1858150	19.12

TYPE	SAMPLE	#								
CCV	20PPB	003	1203496	10.74	2509425	11.92	2237979	15.91	883240	18.61
BS	QC342726	004	1275406	10.75	2585194	11.93	2334186	15.92	964825	18.62
BSD	QC342727	005	1201406	10.75	2484898	11.93	2197943	15.92	919561	18.62
BLANK	QC342728	007	1217949	10.74	2456826	11.92	2226524	15.91	859427	18.62
SAMPLE	187065-001	008	1170445	10.74	2405439	11.92	2162527	15.92	852123	18.62
SAMPLE	187179-001	009	1187380	10.75	2455257	11.93	2213736	15.92	846424	18.62
CCV	20PPB	011	1184046	10.74	2451260	11.93	2211463	15.92	900804	18.62
BLANK	QC342729	013	1180420	10.75	2446399	11.93	2215545	15.92	830787	18.62
SAMPLE	187045-007	014	1152610	10.75	2405029	11.93	2177395	15.92	834082	18.62
SAMPLE	187045-003	015	1123172	10.75	2297588	11.93	2097612	15.92	887089	18.62
SAMPLE	187045-006	016	1169956	10.75	2395844	11.93	2178680	15.92	891507	18.62
SAMPLE	187065-011	017	1215457	10.75	2489523	11.93	2272885	15.92	845652	18.62
SAMPLE	187169-001	018	1217832	10.75	2536099	11.93	2277631	15.92	890377	18.62
SAMPLE	187169-002	019	1185799	10.75	2416797	11.93	2203734	15.92	928003	18.62
SAMPLE	187050-003	020	1241030	10.75	2558284	11.93	2296549	15.92	887557	18.62
SAMPLE	187050-004	021	1249328	10.74	2557356	11.93	2282282	15.92	834244	18.62
SAMPLE	187045-001	022	1252165	10.75	2620310	11.93	2340392	15.92	931995	18.62
SAMPLE	187045-002	023	1227202	10.75	2505741	11.93	2296682	15.92	894934	18.62
SAMPLE	187045-004	024	1261169	10.75	2599746	11.93	2344150	15.92	947086	18.62
SAMPLE	187045-005	025	1201252	10.75	2504749	11.93	2250649	15.92	853667	18.62
SAMPLE	187183-004	026	1165188	10.75	2423591	11.93	2186029	15.92	816201	18.62
SAMPLE	187183-006	027	1222211	10.74	2525455	11.92	2242575	15.92	832548	18.62
SAMPLE	187183-008	028	1184217	10.75	2443891	11.93	2224033	15.92	839807	18.62
SAMPLE	187183-010	029	1131508	10.75	2330531	11.92	2113962	15.92	805696	18.62
SAMPLE	187183-011	030	1093607	10.75	2259596	11.92	2070367	15.92	786392	18.62

MS VOA10 8260XW. ICAL

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 496195044 Instrument: MSVOA10 HP GCMS VOA 10 Begun: 15-MAY-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	jef01	TUN	BFB			15-MAY-2006 10:44	1.0						1	
002	jef02	CCV				15-MAY-2006 11:01	1.0	10		5000			2 3 4 5	
003	jef03	X	IB			15-MAY-2006 12:18	1.0						5	
004	jef04	X	IB			15-MAY-2006 12:53	1.0						5	
005	jef05	X	LOWPT			15-MAY-2006 13:27	1.0						5	
006	jef06	X	IB			15-MAY-2006 14:02	1.0						5	
007	jef07	X	IB			15-MAY-2006 15:42	1.0						5	
008	jef08	TUN	BFB			15-MAY-2006 16:20	1.0						1	
009	jef09	X	IB			15-MAY-2006 16:37	1.0						5	
010	jef10	X	IB			15-MAY-2006 17:12	1.0						5	
011	jef11	X	CALIB IB			15-MAY-2006 17:48	1.0						5	
012	jef12	ICAL	0.25/0.5PPB			15-MAY-2006 18:22	1.0						3 2 4 5	
013	jef13	ICAL	0.5/1PPB			15-MAY-2006 18:57	1.0						3 2 4 5	
014	jef14	ICAL	2PPB			15-MAY-2006 19:32	1.0						3 2 4 5	
015	jef15	ICAL	5PPB			15-MAY-2006 20:07	1.0						3 2 4 5	154
016	jef16	ICAL	10PPB			15-MAY-2006 20:42	1.0						3 2 4 5	
017	jef17	ICAL	20PPB			15-MAY-2006 21:16	1.0						3 2 4 5	
018	jef18	ICAL	50PPB			15-MAY-2006 21:51	1.0						3 2 4 5	
019	jef19	ICAL	75PPB			15-MAY-2006 22:26	1.0						3 2 4 5	
020	jef20	ICAL	100PPB			15-MAY-2006 23:01	1.0						3 2 4 5	
021	jef21	X				15-MAY-2006 23:36	1.0	1		5000			6 5	
022	jef22	X				16-MAY-2006 00:10	1.0	1		5000			7 8 5	
023	jef23	X	IB			16-MAY-2006 00:45	1.0						5	
024	jef24	X	IB			16-MAY-2006 01:20	1.0						5	

No 2Clene, Naph + 123 TCB to 50ppb only, IIN - ~~Bakeit~~ 5/16/06, Cyclohex ↓, + A.C.E lim - Bake↑, TMTHF↓

Stds used: 1=S2327 2=S3256 3=S3321 4=S2864 5=S3046 6=S3342 7=S3391 8=S3068

Analyst: [signature] Date: 5/16/06

05/17/06

MSVOA10 8260x w. ICM

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 496196333 Instrument: MSVOA10 HP GCMS VOA 10 Begun: 16-MAY-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	jeg01	TUN	BFB			16-MAY-2006 08:13	1.0						1	
002	jeg02	CCV				16-MAY-2006 08:30	1.0	2		5000			2 3 4 5	
003	jeg03	BS	QC340173	113472	Water	16-MAY-2006 09:33	1.0	4	2	5000			6 7 8 5	
004	jeg04	BSD/ICV	QC340174	113472	Water	16-MAY-2006 10:08	1.0	3	1	5000			6 7 8 5	
005	jeg05	X	IB			16-MAY-2006 10:43	1.0						5	

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Stds-used: 1=S2327 2=S3255 3=S3321 4=S2864 5=S3046 6=S3391 7=S3342 8=S3068

Analyst: Date: 5/16/06

5/17/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

4-6, 9, 12-14, 18

Sequence: 496220758 Instrument: MSVOA10 HP GCMS VOA 10 Begun: 02-JUN-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	jf201	TUN	BFB			02-JUN-2006 07:18	1.0						1	
002	jf202	CCV	25 PPB			02-JUN-2006 07:36	1.0	1		5000			2 3 4	
003	jf203	BS	QC342489	114055	Water	02-JUN-2006 08:20	1.0	3	2	5000			5 6 7 4	
004	jf204	BSD	QC342490	114055	Water	02-JUN-2006 08:55	1.0	3	1	5000			5 6 7 4	
005	jf205	TUN	BFB			02-JUN-2006 09:27	1.0						1	
006	jf206	CCV	25PPB			02-JUN-2006 09:45	1.0			5000			4 2 3	
007	jf207	X	IB			02-JUN-2006 10:30	1.0						4	
008	jf208	BLANK	QC342491	114055	Water	02-JUN-2006 11:05	1.0	1	1	5000			4	
009	jf209	SAMPLE	187065-018	114055	Water	02-JUN-2006 11:40	1.0			5000	B	<2	4	
010	jf210	SAMPLE	187112-017	114055	Water	02-JUN-2006 12:16	1.0			5000	A		4	
011	jf211	SAMPLE	187112-013	114055	Water	02-JUN-2006 12:51	1.0			5000	C		4	
012	jf212	SAMPLE	187112-014	114055	Water	02-JUN-2006 13:26	1.0			5000			4	
013	jf213	SAMPLE	187093-005	114055	Water	02-JUN-2006 14:02	200.0			5000			4	
014	jf214	SAMPLE	187053-003	114055	Water	02-JUN-2006 14:37	5.0			5000			4	
015	jf215	SAMPLE	187065-001	114055	Water	02-JUN-2006 15:12	1.0			5000			4 RR1X Bzn, MP-X co-	156
016	jf216	SAMPLE	187065-004	114055	Water	02-JUN-2006 15:47	1.0			5000			4	
017	jf217	SAMPLE	187065-005	114055	Water	02-JUN-2006 16:22	1.0			5000			4	
018	jf218	SAMPLE	187065-006	114055	Water	02-JUN-2006 16:58	1.0			5000			4	
019	jf219	SAMPLE	187065-009	114055	Water	02-JUN-2006 17:33	1.0			5000			4	
020	jf220	SAMPLE	187065-012	114055	Water	02-JUN-2006 18:09	1.0			5000			4	
021	jf221	SAMPLE	187065-013	114055	Water	02-JUN-2006 18:44	1.0			5000			4	
022	jf222	SAMPLE	187065-014	114055	Water	02-JUN-2006 19:19	1.0			5000			4	
023	jf223	SAMPLE	187065-011	114055	Water	02-JUN-2006 19:54	~~1.0~~ 1.667 6/5/06			5000			4 RR1X OD	
024	jf224	SAMPLE	187181-001	114055	Water	02-JUN-2006 20:29	1.0			5000	A		4	
025	jf225	SAMPLE	187181-002	114055	Water	02-JUN-2006 21:05	1.0			5000			4	
026	jf226	X	IB			02-JUN-2006 21:40	1.0						4	
027	jf227	X	IB			02-JUN-2006 22:15	1.0						4	

Stds used: 1=S2327 2=S3365 3=S3592 4=S3570 5=S3391 6=S3600 7=S3604

Analyst: [signature] Date: 6/5/06

06/05/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

1, 11

Sequence: 496225264 Instrument: MSVOA10 HP GCMS VOA 10 Begun: 05-JUN-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	jf501	X	IB			05-JUN-2006 10:24	1.0						1	
002	jf502	TUN	BFB			05-JUN-2006 10:52	1.0						2	
003	jf503	CCV	20PPB			05-JUN-2006 11:11	1.0			5000			3 4 1	
004	jf504	BS	QC342726	114112	Water	05-JUN-2006 12:09	1.0	2	3	5000			5 6 7 1	
005	jf505	BSD	QC342727	114112	Water	05-JUN-2006 12:45	1.0	2	3	5000			5 6 7 1	
006	jf506	X	IB			05-JUN-2006 13:20	1.0						1	
007	jf507	BLANK	QC342728	114112	Water	05-JUN-2006 13:55	1.0	1	1	5000			1	
008	jf508	SAMPLE	187065-001	114112	Water	05-JUN-2006 14:30	1.0			5000	D	K2	1	
009	jf509	SAMPLE	187179-001	114112	Water	05-JUN-2006 15:06	1.0			5000	C	↓	1	1:CLME=205.743
010	jf510	TUN	BFB			05-JUN-2006 15:39	1.0						2	
011	jf511	CCV	20PPB			05-JUN-2006 15:57	1.0	1		5000			1 3 4	
012	jf512	X	IB			05-JUN-2006 16:43	1.0						1	
013	jf513	BLANK	QC342729	114112	Water	05-JUN-2006 17:19	1.0	1	1	5000			1	
014	jf514	SAMPLE	187045-007	114112	Water	05-JUN-2006 17:54	1.0			5000	A	K2	1	
015	jf515	SAMPLE	187045-003	114112	Water	05-JUN-2006 18:29	1.0	1		5000	D	↓	1 PR 2X OR	1:XYLO=110.284
016	jf516	SAMPLE	187045-006	114112	Water	05-JUN-2006 19:04	1.0			5000	↓	4	1	
017	jf517	SAMPLE	187065-011	114112	Water	05-JUN-2006 19:39	1.0			5000	D	K2	1	
018	jf518	SAMPLE	187169-001	114112	Water	05-JUN-2006 20:15	1.0			5000	B		1	
019	jf519	SAMPLE	187169-002	114112	Water	05-JUN-2006 20:49	1.0			5000			1	
020	jf520	SAMPLE	187050-003	114112	Water	05-JUN-2006 21:24	1.0			5000			1 PR 1x in Bottle	
021	jf521	SAMPLE	187050-004	114112	Water	05-JUN-2006 22:00	1.0			5000	↓		1	
022	jf522	SAMPLE	187045-001	114112	Water	05-JUN-2006 22:35	25.0			5000	D		1 PR 10x OD	
023	jf523	SAMPLE	187045-002	114112	Water	05-JUN-2006 23:10	62.50			5000			1	
024	jf524	SAMPLE	187045-004	114112	Water	05-JUN-2006 23:45	14.29	1		5000			1 PR 20x OR	1:XYLO=105.022
025	jf525	SAMPLE	187045-005	114112	Water	06-JUN-2006 00:20	5.0			5000	↓		1 PR 1x OD	
026	jf526	SAMPLE	187183-004	114112	Water	06-JUN-2006 00:55	2.0	1		5000	C		1	
027	jf527	SAMPLE	187183-006	114112	Water	06-JUN-2006 01:31	5.0	1		5000			1	
028	jf528	SAMPLE	187183-008	114112	Water	06-JUN-2006 02:06	2.500	1		5000			1	
029	jf529	SAMPLE	187183-010	114112	Water	06-JUN-2006 02:41	2.0	1		5000			1	
030	jf530	SAMPLE	187183-011	114112	Water	06-JUN-2006 03:17	2.0	1		5000	↓	↓	1	
031	jf531	X	IB			06-JUN-2006 03:52	1.0						1	

157

Stds used: 1=S3570 2=S2327 3=S3536 4=S3592 5=S3391 6=S3600 7=S3604

Analyst: [signature] Date: 6/6/06

[signature] 6/6/06

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187065 8260 Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CLM	VCE	BRE	CLE	AC1	DCE	MTN	CTL	MDS	DTB	VCE	DTC	MA2	DKE	MEL	DC1	TM3	TL1	TA2	CL1	DC1	BZ3	TC1	DE2	BP1	DM1	BK1	ME1	DB1	BE2	DT2	TC2	HX1	PC1	DB1	CZ1	EM1	XO1	XE1	TM1	SO1	TX1	PE1	DM3	DA2	BF1	BM1	BE2	BR4
187065-001	MSVOA10	06/02/06 15:12	1.0																																																	
187065-001	MSVOA10	06/05/06 14:30	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
187065-004	MSVOA10	06/02/06 15:47	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
187065-005	MSVOA10	06/02/06 16:22	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
187065-006	MSVOA10	06/02/06 16:58	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
187065-009	MSVOA10	06/02/06 17:33	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
187065-011	MSVOA10	06/02/06 19:54	1.667																																																	
187065-011	MSVOA10	06/05/06 19:39	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
187065-012	MSVOA10	06/02/06 18:09	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
187065-013	MSVOA10	06/02/06 18:44	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
187065-014	MSVOA10	06/02/06 19:19	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
187065-018	MSVOA10	06/02/06 02:51	1.0																																																	
187065-018	MSVOA10	06/02/06 11:40	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC342303	MSVOA10	06/01/06 11:33	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC342304	MSVOA10	06/01/06 12:08	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC342305	MSVOA10	06/01/06 12:43	1.0																																															+	+	+	+
QC342306	MSVOA10	06/01/06 13:18	1.0																																															+	+	+	+
QC342307	MSVOA10	06/01/06 16:52	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC342489	MSVOA10	06/02/06 08:20	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC342490	MSVOA10	06/02/06 08:55	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC342491	MSVOA10	06/02/06 11:05	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC342726	MSVOA10	06/05/06 12:09	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC342727	MSVOA10	06/05/06 12:45	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC342728	MSVOA10	06/05/06 13:55	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187065 8260 Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID Analyzed	IDF	CLM	VCM	BRE	CLE	AC	DCE	MEL	CST	MDB	DCT	VAC	DEL	MCC	DCC	TAL	TCC	CAC	DCA	BZ	TE	DP	BC	MD	DI	BP	DC	CM	DZ	BP	DC	TA	CX	HO	PE	DC	CB	EL	XB	XZ	TY	SO	TX	PB	DC	DB	BZ	BR
QC342729	MSVOA10 06/05/06 17:19	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 6/2/06

PREPPED BY.

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
							10	pr 1x TB clock	
1	187065-18		B	<2				pr ~~167~~ 200X	
2	187093-5		C	<2				~~pr 2x ethyl~~	
3	~~187115-2~~							pr 5x OD	
4	187053-3		C	<2				1x	
5	187065-1								
6	4								
7	5								
8	6								
9	9			<2				1.67x	
0	11							1x	
1	12								
2	13								
3	14							1x	
4	187181-1		A					1x	
5	2							1x	
6	187112-13		C						
7	14							TB	
8	17		A						
19									
20									
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GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 6/5/02

PREPPED BY.

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	187065-1		D	<2			10	PR 1X - Bzn, Mix co-	
2	11							PR 1X OD	
3	187179-1		C					PR 1X BrMe-	
4	187183-4			<2				PR 2X TCE	
5	6							PR 5X	
6	8							PR 2.5X	
7	10							PR 2X	
8	11							PR 2X	
9	187045-1		D					25X	
10	2							62.5X	
11	3			<2				1X	
12	4			<2				14.3X	
13	5							5X	
14	6			4				1X	
15	7		A	<2				1X TB	
16	187169-1		B					1X	
17	2							1X	
18	187050-3							1X	
19	4							1X	
20									
21									
22									
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7/21/98

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water
As of 06/22/06

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10	MSVOA11
Ethanol	ug/L	55	22	23	50	11	7.9	36	10
1,1-Dichloroethene	ug/L	0.27	0.22	0.062	0.17	0.10	0.085	0.089	0.11
Benzene	ug/L	0.11	0.041	0.060	0.061	0.12	0.044	0.027	0.084
Trichloroethene	ug/L	0.21	0.076	0.18	0.17	0.11	0.072	0.087	0.086
Toluene	ug/L	0.083	0.083	0.12	0.092	0.062	0.063	0.053	0.14
Chlorobenzene	ug/L	0.10	0.090	0.11	0.16	0.16	0.079	0.050	0.075
Freon 12	ug/L	0.18	0.099	0.22	0.062	0.15	0.24	0.18	0.20
Chloromethane	ug/L	0.12	0.16	0.12	0.18	0.13	0.16	0.089	0.20
Vinyl Chloride	ug/L	0.19	0.23	0.10	0.066	0.10	0.17	0.16	0.039
Bromomethane	ug/L	0.29	0.30	0.31	0.13	0.31	0.23	0.20	0.23
Chloroethane	ug/L	0.33	0.33	0.15	0.16	0.13	0.16	0.12	0.18
Trichlorofluoromethane	ug/L	0.16	0.057	0.17	0.10	0.080	0.089	0.10	0.19
Acetone	ug/L	0.39	0.87	0.21	0.85	0.16	0.26	0.49	0.15
Freon 113	ug/L	0.062	0.12	0.13	0.25	0.071	0.20	0.091	0.16
Methylene Chloride	ug/L	0.15	0.21	0.11	0.12	0.16	0.099	0.22	0.086
MTBE	ug/L	0.069	0.074	0.065	0.045	0.040	0.051	0.052	0.068
Carbon Disulfide	ug/L	0.039	0.031	0.086	0.076	0.11	0.058	0.037	0.066
trans-1,2-Dichloroethene	ug/L	0.37	0.13	0.18	0.051	0.064	0.11	0.093	0.094
Vinyl Acetate	ug/L	0.076	0.36	0.084	0.99	0.40	0.080	0.10	0.13
1,1-Dichloroethane	ug/L	0.088	0.061	0.048	0.090	0.11	0.063	0.063	0.10
2-Butanone	ug/L	0.16	0.17	0.20	0.50	0.099	0.17	0.26	0.081
cis-1,2-Dichloroethene	ug/L	0.26	0.18	0.083	0.12	0.042	0.096	0.11	0.16
2,2-Dichloropropane	ug/L	0.093	0.17	0.077	0.12	0.066	0.084	0.083	0.14
Chloroform	ug/L	0.082	0.055	0.086	0.060	0.11	0.030	0.044	0.084
Bromochloromethane	ug/L	0.091	0.090	0.10	0.18	0.11	0.20	0.15	0.11
1,1,1-Trichloroethane	ug/L	0.084	0.066	0.14	0.11	0.061	0.045	0.041	0.096
1,1-Dichloropropene	ug/L	0.12	0.11	0.081	0.16	0.16	0.052	0.055	0.084
Carbon Tetrachloride	ug/L	0.089	0.11	0.098	0.17	0.15	0.095	0.056	0.14
1,2-Dichloroethane	ug/L	0.090	0.088	0.099	0.096	0.12	0.058	0.056	0.094
1,2-Dichloropropane	ug/L	0.093	0.060	0.079	0.071	0.14	0.072	0.12	0.086
Bromodichloromethane	ug/L	0.086	0.039	0.067	0.074	0.10	0.081	0.069	0.094
Dibromomethane	ug/L	0.16	0.061	0.092	0.16	0.11	0.065	0.13	0.089
4-Methyl-2-Pentanone	ug/L	0.044	0.076	0.057	0.20	0.13	0.092	0.25	0.067
cis-1,3-Dichloropropene	ug/L	0.068	0.065	0.056	0.20	0.16	0.042	0.044	0.080
trans-1,3-Dichloropropene	ug/L	0.074	0.074	0.044	0.073	0.14	0.071	0.060	0.059
1,1,2-Trichloroethane	ug/L	0.12	0.12	0.14	0.19	0.15	0.094	0.058	0.12
2-Hexanone	ug/L	0.043	0.31	0.047	0.34	0.11	0.13	0.14	0.097
1,3-Dichloropropane	ug/L	0.064	0.067	0.061	0.063	0.10	0.045	0.068	0.049
Tetrachloroethene	ug/L	0.13	0.14	0.12	0.22	0.14	0.090	0.093	0.089
Dibromochloromethane	ug/L	0.099	0.054	0.10	0.085	0.056	0.077	0.063	0.094
1,2-Dibromoethane	ug/L	0.16	0.061	0.10	0.073	0.11	0.053	0.070	0.088
2-Chloroethylvinylether	ug/L	0.093	0.18	0.24	0.17	0.14	0.20	0.23	0.14
1,1,1,2-Tetrachloroethane	ug/L	0.11	0.087	0.10	0.11	0.14	0.046	0.088	0.16
Ethylbenzene	ug/L	0.059	0.076	0.075	0.17	0.041	0.060	0.11	0.069
m,p-Xylenes	ug/L	0.24	0.22	0.14	0.27	0.17	0.13	0.20	0.14

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water
As of 06/22/06

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10	MSVOA11
o-Xylene	ug/L	0.10	0.058	0.092	0.11	0.16	0.11	0.13	0.078
Styrene	ug/L	0.12	0.092	0.098	0.085	0.16	0.075	0.061	0.055
Bromoform	ug/L	0.12	0.088	0.11	0.18	0.094	0.079	0.15	0.10
Isopropylbenzene	ug/L	0.12	0.059	0.090	0.18	0.059	0.053	0.10	0.089
1,1,2,2-Tetrachloroethane	ug/L	0.13	0.096	0.086	0.047	0.13	0.070	0.055	0.11
1,2,3-Trichloropropane	ug/L	0.31	0.28	0.074	0.11	0.17	0.20	0.16	0.072
Propylbenzene	ug/L	0.075	0.10	0.063	0.21	0.023	0.055	0.11	0.088
Bromobenzene	ug/L	0.12	0.12	0.10	0.19	0.12	0.073	0.085	0.088
1,3,5-Trimethylbenzene	ug/L	0.060	0.095	0.047	0.14	0.057	0.077	0.13	0.069
2-Chlorotoluene	ug/L	0.12	0.11	0.068	0.15	0.025	0.047	0.12	0.080
4-Chlorotoluene	ug/L	0.079	0.069	0.043	0.14	0.037	0.032	0.069	0.078
tert-Butylbenzene	ug/L	0.11	0.15	0.075	0.19	0.038	0.042	0.079	0.082
1,2,4-Trimethylbenzene	ug/L	0.091	0.088	0.066	0.12	0.069	0.077	0.10	0.099
sec-Butylbenzene	ug/L	0.11	0.12	0.062	0.17	0.088	0.041	0.076	0.097
para-Isopropyl Toluene	ug/L	0.058	0.12	0.12	0.14	0.056	0.055	0.045	0.075
1,3-Dichlorobenzene	ug/L	0.080	0.16	0.097	0.18	0.060	0.071	0.10	0.094
1,4-Dichlorobenzene	ug/L	0.068	0.14	0.095	0.18	0.038	0.092	0.17	0.072
n-Butylbenzene	ug/L	0.12	0.15	0.11	0.18	0.21	0.048	0.12	0.073
1,2-Dichlorobenzene	ug/L	0.072	0.14	0.080	0.14	0.16	0.068	0.061	0.081
1,2-Dibromo-3-Chloropropane	ug/L	0.39	0.25	0.21	0.22	0.13	0.26	0.098	0.18
1,2,4-Trichlorobenzene	ug/L	0.12	0.17	0.14	0.16	0.10	0.16	0.17	0.061
Hexachlorobutadiene	ug/L	0.19	0.19	0.29	0.21	0.11	0.24	0.25	0.17
Naphthalene	ug/L	0.12	0.13	0.060	0.10	0.091	0.20	0.16	0.052
1,2,3-Trichlorobenzene	ug/L	0.063	0.17	0.10	0.20	0.095	0.18	0.29	0.15
tert-Butyl Alcohol (TBA)	ug/L	1.3	1.6	0.83	2.5	1.3	0.94	1.3	1.3
Isopropyl Ether (DIPE)	ug/L	0.068	0.070	0.063	0.027	0.030	0.053	0.027	0.089
Ethyl tert-Butyl Ether (ETBE)	ug/L	0.089	0.045	0.024	0.20	0.033	0.075	0.034	0.079
Methyl tert-Amyl Ether (TAME)	ug/L	0.094	0.13	0.055	0.054	0.048	0.032	0.057	0.17
Isopropanol	ug/L	4.6	2.7	1.6	6.6	1.5	1.4	1.1	1.3
Hexane	ug/L				0.33		0.15		
Cyclohexanone	ug/L	3.8	2.4	0.21	1.6	1.6	2.5		1.0
Tetrahydrofuran	ug/L	0.64	1.2	1.1	0.79	1.4	1.7	3.5	0.65
Tetramethyl THF	ug/L	0.067	0.061	0.062	0.20	0.10	0.055	0.078	0.079
Gasoline C6-C10	ug/L		15		4.8	15	8.5		
Gasoline C7-C12	ug/L		18		2.4	13	7.7		
Dibromofluoromethane	ug/L	3.1	2.9	1.8	2.4	1.5		3.2	1.7
1,2-Dichloroethane-d4	ug/L	3.0	3.9		2.4	1.2		3.0	1.8
Toluene-d8	ug/L	1.7	3.8		1.1	1.0		1.1	0.96
Bromofluorobenzene	ug/L	2.5	2.6		1.2	1.2		1.5	1.0
Trifluorotoluene	ug/L	0.12	0.43	0.065	0.21	0.13		0.14	0.18

PESTICIDES

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	1349MW100	Batch#:	113870
Lab ID:	187065-012	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Prepared:	05/26/06

Analyte	Result	RL	Diln Fac	Analyzed
alpha-BHC	ND	0.2	5.000	05/30/06
beta-BHC	ND #	0.5	10.00	06/01/06
gamma-BHC	ND	0.2	5.000	05/30/06
delta-BHC	ND #	0.2	5.000	05/30/06
Heptachlor	ND	0.2	5.000	05/30/06
Aldrin	ND	0.2	5.000	05/30/06
Heptachlor epoxide	0.4	0.2	5.000	05/30/06
Endosulfan I	ND	0.2	5.000	05/30/06
Dieldrin	ND	0.5	5.000	05/30/06
4,4'-DDE	ND	0.5	5.000	05/30/06
Endrin	ND	0.5	5.000	05/30/06
Endosulfan II	ND	0.5	5.000	05/30/06
Endosulfan sulfate	ND	0.5	5.000	05/30/06
4,4'-DDD	ND	0.5	5.000	05/30/06
4,4'-DDT	0.8 C	0.5	5.000	05/30/06
alpha-Chlordane	ND	0.2	5.000	05/30/06
gamma-Chlordane	ND	0.2	5.000	05/30/06
Methoxychlor	ND	2.4	5.000	05/30/06
Endrin ketone	ND	0.5	5.000	05/30/06
Toxaphene	ND	4.8	5.000	05/30/06

Surrogate	%REC	Limits	Diln Fac	Analyzed
TCMX	44 *	65-135	5.000	05/30/06
Decachlorobiphenyl	79	65-135	5.000	05/30/06

#= CCV drift outside limits; average CCV drift within limits per method requirements
*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	DUP0524063A	Batch#:	113870
Lab ID:	187065-013	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Prepared:	05/26/06

Analyte	Result	RL	Diln Fac	Analyzed
alpha-BHC	ND	0.2	5.000	05/30/06
beta-BHC	ND #	0.5	10.00	06/01/06
gamma-BHC	ND	0.2	5.000	05/30/06
delta-BHC	ND #	0.2	5.000	05/30/06
Heptachlor	ND	0.2	5.000	05/30/06
Aldrin	0.3 C	0.2	5.000	05/30/06
Heptachlor epoxide	0.3	0.2	5.000	05/30/06
Endosulfan I	ND	0.2	5.000	05/30/06
Dieldrin	ND	0.5	5.000	05/30/06
4,4'-DDE	ND	0.5	5.000	05/30/06
Endrin	ND	0.5	5.000	05/30/06
Endosulfan II	ND	0.5	5.000	05/30/06
Endosulfan sulfate	ND	0.5	5.000	05/30/06
4,4'-DDD	ND	0.5	5.000	05/30/06
4,4'-DDT	0.8	0.5	5.000	05/30/06
alpha-Chlordane	0.8	0.2	5.000	05/30/06
gamma-Chlordane	ND	0.2	5.000	05/30/06
Methoxychlor	ND	2.4	5.000	05/30/06
Endrin ketone	ND	0.5	5.000	05/30/06
Toxaphene	ND	4.8	5.000	05/30/06

Surrogate	%REC	Limits	Diln Fac	Analyzed
TCMX	61 *	65-135	5.000	05/30/06
Decachlorobiphenyl	78	65-135	5.000	05/30/06

#= CCV drift outside limits; average CCV drift within limits per method requirements
*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC341755	Batch#:	113870
Matrix:	Water	Prepared:	05/26/06
Units:	ug/L	Analyzed:	05/30/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND #	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	66	65-135
Decachlorobiphenyl	106	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Matrix:	Water	Batch#:	113870
Units:	ug/L	Prepared:	05/26/06
Diln Fac:	1.000	Analyzed:	05/30/06

Type: BS Lab ID: QC341756

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	0.2000	0.1906	95	65-135
Heptachlor	0.2000	0.1826	91	65-135
Aldrin	0.2000	0.1858	93	65-135
Dieldrin	0.4000	0.3950	99	65-135
Endrin	0.4000	0.3895	97	65-135
4,4'-DDT	0.4000	0.4124	103	65-135

Surrogate	%REC	Limits
TCMX	71	65-135
Decachlorobiphenyl	97	65-135

Type: BSD Lab ID: QC341757

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	0.2000	0.1997	100	65-135	5	35
Heptachlor	0.2000	0.1945	97	65-135	6	35
Aldrin	0.2000	0.1943	97	65-135	4	35
Dieldrin	0.4000	0.4156	104	65-135	5	35
Endrin	0.4000	0.4163	104	65-135	7	35
4,4'-DDT	0.4000	0.4406	110	65-135	7	35

Surrogate	%REC	Limits
TCMX	71	65-135
Decachlorobiphenyl	100	65-135

RPD= Relative Percent Difference

Confirmation Report for 187065 PEST Water
Curtis & Tompkins Laboratories

Units: ug/L

Lab ID	Client ID	Analyte	Result	Confirmation	RPD	%D
187065-012	1349MW100	Heptachlor epoxide	0.4144	0.2933	34	-29
187065-012	1349MW100	4,4'-DDT	0.8294 C	0.3808	74	-54
187065-013	DUP0524063A	Aldrin	0.2610 C	0.4588	55	76
187065-013	DUP0524063A	Heptachlor epoxide	0.3488	0.3343	4	-4
187065-013	DUP0524063A	4,4'-DDT	0.8323	1.017	20	22
187065-013	DUP0524063A	alpha-Chlordane	0.8361	0.6891	19	-18

C=RPD between columns exceeds 40%

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187065 PEST Water: EPA 8081A

Inst : GC23
Calnum : 806195056001
Units : pg

Name : gc23pest135
Date : 15-MAY-2006 22:44
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	135_015	806195056015	pest_1	15-MAY-2006 22:44	S2827
L2	135_016	806195056016	pest_2	15-MAY-2006 23:13	S3283
L3	135_017	806195056017	pest_3	15-MAY-2006 23:41	S2996
L4	135_018	806195056018	pest_4	16-MAY-2006 00:10	S2997
L5	135_019	806195056019	pest_5	16-MAY-2006 00:39	S3111
L6	135_020	806195056020	pest_6	16-MAY-2006 01:08	S2828
L7	135_021	806195056021	pest_7	16-MAY-2006 01:37	S2823

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
alpha-BHC	A	41010	39647	35893	35029	35814	41476	41106	AVRG		2.59E-5		38568	7	0.995	20	
gamma-BHC	A	37332	35688	31909	30880	31593	36440	36408	AVRG		2.91E-5		34321	8	0.995	20	
beta-BHC	A	15828	14501	12707	12090	12233	13095	13132	AVRG		7.48E-5		13369	10	0.995	20	
delta-BHC	A	35312	34359	31206	30395	31440	34863	35783	AVRG		3.00E-5		33337	7	0.995	20	
Heptachlor	A	29228	29334	27523	26750	27654	32089	31634	AVRG		3.43E-5		29173	7	0.995	20	
Aldrin	A	31722	30855	28151	27056	27992	32165	30942	AVRG		3.35E-5		29840	7	0.995	20	
Heptachlor epoxide	A	29777	28377	25604	24306	25043	28326	26743	AVRG		3.72E-5		26882	7	0.995	20	
gamma-Chlordane	A	29111	27452	25259	24251	25015	29179	28285	AVRG		3.71E-5		26936	8	0.995	20	
alpha-Chlordane	A	27524	26075	23939	23028	23587	27562	27039	AVRG		3.92E-5		25536	8	0.995	20	
4,4'-DDE	A	21974	20214	19670	20396	20677	25475		AVRG		4.67E-5		21401	10	0.995	20	
Endosulfan I	A	33757	33626	29657	27897	29953	31761	30690	AVRG		3.22E-5		31049	7	0.995	20	
Dieldrin	A	27145	26099	24796	25336	26307	27847		AVRG		3.81E-5		26255	4	0.995	20	
Endrin	A	22003	20253	20197	19473	19840	23258	19232	AVRG		4.85E-5		20608	7	0.995	20	
4,4'-DDD	A	21043	19475	18855	19180	19240	22815	21259	AVRG		4.93E-5		20267	7	0.995	20	
Endosulfan II	A	23597	21804	20673	20726	21217	23419	19587	AVRG		4.64E-5		21574	7	0.995	20	
4,4'-DDT	A	14501	14741	15473	16474	16302	20726	19242	AVRG		5.96E-5		16780	14	0.995	20	
Methoxychlor	A	6150.8	6078.2	6680.2	7754.5	7548.7	7672.5		AVRG		1.43E-4		6980.8	11	0.995	20	
Endosulfan sulfate	A	19448	18034	17059	17031	17026	18955	16897	AVRG		5.62E-5		17779	6	0.995	20	
Endrin ketone	A	24047	22167	20855	22121	22317	24107	20138	AVRG		4.49E-5		22250	7	0.995	20	
TCMX	A	23120	23357	22357	21979	22286	25325	25298	AVRG		4.28E-5		23389	6	0.995	20	
Decachlorobiphenyl	A	15643	14047	12328	14818	14189	14400	13119	AVRG		7.10E-5		14078	8	0.995	20	
alpha-BHC	B	19660	20230	19740	19214	18740	20144	22293	AVRG		5.00E-5		20003	6	0.995	20	
gamma-BHC	B	20099	18413	17797	17168	16806	17919	19873	AVRG		5.47E-5		18296	7	0.995	20	
beta-BHC	B	8587.5	7966.4	7603.7	7261.4	7039.2	7021.4	7223.7	AVRG		1.33E-4		7529.0	8	0.995	20	
delta-BHC	B	19826	16374	16317	15302	15261	16582	19050	AVRG		5.90E-5		16959	11	0.995	20	
Heptachlor	B	24215	16539	16270	15643	15378	16101	17793	AVRG		5.74E-5		17420	18	0.995	20	

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Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aldrin	B	19581	15936	15510	14582	14763	15383	17140	AVRG		6.20E-5		16128	11	0.995	20	
Heptachlor epoxide	B	19984	15097	14569	13345	13544	13787	14947	AVRG		6.65E-5		15039	15	0.995	20	
gamma-Chlordane	B	18815	15034	14414	13397	13784	14301	16130	AVRG		6.61E-5		15125	12	0.995	20	
alpha-Chlordane	B	17904	14301	13693	12721	13115	13525	15408	AVRG		6.95E-5		14381	12	0.995	20	
4,4'-DDE	B	16465	14087	13441	12994	13881	14703	14887	AVRG		6.97E-5		14351	8	0.995	20	
Endosulfan I	B	18190	13937	13262	12139	12366	12444	13685	AVRG		7.29E-5		13718	15	0.995	20	
Dieldrin	B	16818	14326	13933	13165	13937	14684	14385	AVRG		6.91E-5		14464	8	0.995	20	
Endrin	B	13821	11330	11494	10166	10556	11324	11648	AVRG		8.71E-5		11477	10	0.995	20	
4,4'-DDD	B	12360	10645	10530	9862.5	10476	11190	11932	AVRG		9.09E-5		10999	8	0.995	20	
Endosulfan II	B	15232	13138	12315	11491	12018	12473	12794	AVRG		7.82E-5		12780	9	0.995	20	
4,4'-DDT	B	12564	10979	9633.3	10551	11291	11206	11874	AVRG		8.96E-5		11157	8	0.995	20	
Methoxychlor	B	4864.6	4191.0	4257.9	4029.8	4222.6	3954.5		AVRG		2.35E-4		4253.4	8	0.995	20	
Endosulfan sulfate	B	12695	10945	10456	9656.6	10022	10171	10876	AVRG		9.36E-5		10689	9	0.995	20	
Endrin ketone	B	15424	13142	12714	11947	12612	12573	12733	AVRG		7.68E-5		13021	9	0.995	20	
TCMX	B	14044	13067	12577	12135	11968	12710	13812	AVRG		7.75E-5		12902	6	0.995	20	
Decachlorobiphenyl	B	12955	11090	10678	10247	10431	9908.3	11768	AVRG		9.08E-5		11011	10	0.995	20	
Average EPA 8081A	A												(n=22)	8		20	
Average EPA 8081A	B												(n=22)	10		20	

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Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 187065 PEST Water
EPA 8081A

Inst : GC23 Name : gc23pest135
Calnum : 806195056001 Cal Date: 15-MAY-2006

ICV 806195056023 (135_023 16-MAY-2006) stds: S3067

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
alpha-BHC	A	38568	35840	25.00	23.23	pg	-7	15	
gamma-BHC	A	34321	32025	25.00	23.33	pg	-7	15	
beta-BHC	A	13369	12171	25.00	22.76	pg	-9	15	
delta-BHC	A	33337	32308	25.00	24.23	pg	-3	15	
Heptachlor	A	29173	29371	25.00	25.17	pg	1	15	
Aldrin	A	29840	28658	25.00	24.01	pg	-4	15	
Heptachlor epoxide	A	26882	25186	25.00	23.42	pg	-6	15	
gamma-Chlordane	A	26936	24934	25.00	23.14	pg	-7	15	
alpha-Chlordane	A	25536	24090	25.00	23.58	pg	-6	15	
4,4'-DDE	A	21401	19304	25.00	22.55	pg	-10	15	
Endosulfan I	A	31049	26249	25.00	21.14	pg	-15	15	
Dieldrin	A	26255	24401	25.00	23.23	pg	-7	15	
Endrin	A	20608	20566	25.00	24.95	pg	0	15	
4,4'-DDD	A	20267	18609	25.00	22.96	pg	-8	15	
Endosulfan II	A	21574	20413	25.00	23.65	pg	-5	15	
4,4'-DDT	A	16780	15471	25.00	23.05	pg	-8	15	
Methoxychlor	A	6980.8	6487.9	25.00	23.23	pg	-7	15	
Endosulfan sulfate	A	17779	16910	25.00	23.78	pg	-5	15	
Endrin ketone	A	22250	20879	25.00	23.46	pg	-6	15	
alpha-BHC	B	20003	18806	25.00	23.50	pg	-6	15	
gamma-BHC	B	18296	16998	25.00	23.23	pg	-7	15	
beta-BHC	B	7529.0	6957.7	25.00	23.10	pg	-8	15	
delta-BHC	B	16959	16146	25.00	23.80	pg	-5	15	
Heptachlor	B	17420	16009	25.00	22.98	pg	-8	15	
Aldrin	B	16128	14878	25.00	23.06	pg	-8	15	
Heptachlor epoxide	B	15039	13591	25.00	22.59	pg	-10	15	
gamma-Chlordane	B	15125	13648	25.00	22.56	pg	-10	15	
alpha-Chlordane	B	14381	13303	25.00	23.13	pg	-7	15	
4,4'-DDE	B	14351	13739	25.00	23.93	pg	-4	15	
Endosulfan I	B	13718	12688	25.00	23.12	pg	-8	15	
Dieldrin	B	14464	13624	25.00	23.55	pg	-6	15	
Endrin	B	11477	11334	25.00	24.69	pg	-1	15	
4,4'-DDD	B	10999	10523	25.00	23.92	pg	-4	15	
Endosulfan II	B	12780	12238	25.00	23.94	pg	-4	15	
4,4'-DDT	B	11157	11404	25.00	25.55	pg	2	15	
Methoxychlor	B	4253.4	5037.7	25.00	29.61	pg	**18**	15	v+ ***
Endosulfan sulfate	B	10689	10535	25.00	24.64	pg	-1	15	
Endrin ketone	B	13021	13184	25.00	25.31	pg	1	15	
Average EPA 8081A	A	n=20					6	15	
Average EPA 8081A	B	n=20					6	15	

+=high bias v=ICV

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 187065 PEST Water
EPA 8081A

Inst : GC23 Run Name: pem IDF : 1.0
Seqnum : 806216555012 File : 150_012 Time : 30-MAY-2006 14:32

Standards: S3206

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	1827588	7	15	
4,4'-DDE	A	11090			
4,4'-DDD	A	123175			
Endrin	A	1033357	9	15	
Endrin aldehyde	A	35848			
Endrin ketone	A	67478			
4,4'-DDT	B	1128302	3	15	
4,4'-DDE	B	4630			
4,4'-DDD	B	34931			
Endrin	B	512216	6	15	
Endrin aldehyde	B	5558			
Endrin ketone	B	26480			

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 187065 PEST Water
EPA 8081A

Inst : GC23 Run Name: pem IDF : 1.0
Seqnum : 806216555026 File : 150_026 Time : 30-MAY-2006 21:41

Standards: S3206

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	1614783	9	15	
4,4'-DDE	A	4319			
4,4'-DDD	A	163064			
Endrin	A	984160	8	15	
Endrin aldehyde	A	21217			
Endrin ketone	A	59898			
4,4'-DDT	B	987580	4	15	
4,4'-DDE	B	2801			
4,4'-DDD	B	37034			
Endrin	B	493850	6	15	
Endrin aldehyde	B	4487			
Endrin ketone	B	24512			

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 187065 PEST Water
EPA 8081A

Inst : GC23 Run Name: pem IDF : 1.0
Seqnum : 806219433002 File : 152_002 Time : 01-JUN-2006 09:42

Standards: S3206

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	1541526	9	15	
4,4'-DDE	A	4762			
4,4'-DDD	A	141755			
Endrin	A	961881	8	15	
Endrin aldehyde	A	20232			
Endrin ketone	A	61148			
4,4'-DDT	B	1026154	6	15	
4,4'-DDE	B	3462			
4,4'-DDD	B	59293			
Endrin	B	522173	6	15	
Endrin aldehyde	B	3877			
Endrin ketone	B	27418			

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 187065 PEST Water
EPA 8081A

Inst : GC23 Run Name: pem IDF : 1.0
Seqnum : 806219433019 File : 152_019 Time : 01-JUN-2006 18:35

Standards: S3206

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	1740429	7	15	
4,4'-DDE	A	7839			
4,4'-DDD	A	129474			
Endrin	A	1050115	7	15	
Endrin aldehyde	A	19477			
Endrin ketone	A	56745			
4,4'-DDT	B	997391	5	15	
4,4'-DDE	B	3127			
4,4'-DDD	B	50665			
Endrin	B	510945	5	15	
Endrin aldehyde	B	4982			
Endrin ketone	B	23318			

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187065 PEST Water
EPA 8081A

Inst : GC23 Run Name: pest_3 IDF : 1.0
Seqnum : 806216555013 File : 150_013 Time : 30-MAY-2006 15:01
Cal : 806195056001 Caldate : 15-MAY-2006
Standards: S2996

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	38568	34169	10.00	8.859	pg	-11	15	
gamma-BHC	A	34321	30034	10.00	8.751	pg	-12	15	
beta-BHC	A	13369	11607	10.00	8.682	pg	-13	15	
delta-BHC	A	33337	28819	10.00	8.645	pg	-14	15	
Heptachlor	A	29173	26954	10.00	9.239	pg	-8	15	
Aldrin	A	29840	27563	10.00	9.237	pg	-8	15	
Heptachlor epoxide	A	26882	25567	10.00	9.511	pg	-5	15	
gamma-Chlordane	A	26936	25574	10.00	9.494	pg	-5	15	
alpha-Chlordane	A	25536	24349	10.00	9.535	pg	-5	15	
4,4'-DDE	A	21401	16657	20.00	15.57	pg	**-22**	15	c- ***
Endosulfan I	A	31049	35564	10.00	11.45	pg	15	15	
Dieldrin	A	26255	25819	20.00	19.67	pg	-2	15	
Endrin	A	20608	20931	20.00	20.31	pg	2	15	
4,4'-DDD	A	20267	20113	20.00	19.85	pg	-1	15	
Endosulfan II	A	21574	22739	20.00	21.08	pg	5	15	
4,4'-DDT	A	16780	16147	20.00	19.25	pg	-4	15	
Methoxychlor	A	6980.8	7232.8	100.0	103.6	pg	4	15	
Endosulfan sulfate	A	17779	18386	20.00	20.68	pg	3	15	
Endrin ketone	A	22250	23736	20.00	21.33	pg	7	15	
TCMX	A	23389	21038	20.00	17.99	pg	-10	15	
Decachlorobiphenyl	A	14078	15041	20.00	21.37	pg	7	15	
alpha-BHC	B	20003	18153	10.00	9.075	pg	-9	15	
gamma-BHC	B	18296	16306	10.00	8.912	pg	-11	15	
beta-BHC	B	7529.0	6910.3	10.00	9.178	pg	-8	15	
delta-BHC	B	16959	14575	10.00	8.594	pg	-14	15	
Heptachlor	B	17420	15242	10.00	8.750	pg	-12	15	
Aldrin	B	16128	14493	10.00	8.986	pg	-10	15	
Heptachlor epoxide	B	15039	13511	10.00	8.984	pg	-10	15	
gamma-Chlordane	B	15125	13677	10.00	9.042	pg	-10	15	
alpha-Chlordane	B	14381	13088	10.00	9.101	pg	-9	15	
4,4'-DDE	B	14351	13175	20.00	18.36	pg	-8	15	
Endosulfan I	B	13718	12526	10.00	9.131	pg	-9	15	
Dieldrin	B	14464	13217	20.00	18.28	pg	-9	15	
Endrin	B	11477	10697	20.00	18.64	pg	-7	15	
4,4'-DDD	B	10999	10046	20.00	18.27	pg	-9	15	
Endosulfan II	B	12780	12346	20.00	19.32	pg	-3	15	
4,4'-DDT	B	11157	10035	20.00	17.99	pg	-10	15	
Methoxychlor	B	4253.4	3962.2	100.0	93.15	pg	-7	15	
Endosulfan sulfate	B	10689	10332	20.00	19.33	pg	-3	15	
Endrin ketone	B	13021	12714	20.00	19.53	pg	-2	15	
TCMX	B	12902	12009	20.00	18.62	pg	-7	15	
Decachlorobiphenyl	B	11011	10480	20.00	19.04	pg	-5	15	
Average EPA 8081A	A	(n=22)					7	15	
Average EPA 8081A	B	(n=22)					8	15	

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187065 PEST Water
EPA 8081A

Inst : GC23 Run Name: pest_4 IDF : 1.0
Seqnum : 806216555028 File : 150_028 Time : 30-MAY-2006 22:38
Cal : 806195056001 Caldate : 15-MAY-2006
Standards: S2997

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	38568	33787	20.00	17.52	pg	-12	15	
gamma-BHC	A	34321	28944	20.00	16.87	pg	**-16**	15	c- ***
beta-BHC	A	13369	10764	20.00	16.10	pg	**-19**	15	c- ***
delta-BHC	A	33337	26915	20.00	16.15	pg	**-19**	15	c- ***
Heptachlor	A	29173	25614	20.00	17.56	pg	-12	15	
Aldrin	A	29840	25995	20.00	17.42	pg	-13	15	
Heptachlor epoxide	A	26882	23442	20.00	17.44	pg	-13	15	
gamma-Chlordane	A	26936	23234	20.00	17.25	pg	-14	15	
alpha-Chlordane	A	25536	22050	20.00	17.27	pg	-14	15	
4,4'-DDE	A	21401	16252	40.00	30.38	pg	**-24**	15	c- ***
Endosulfan I	A	31049	32984	20.00	21.25	pg	6	15	
Dieldrin	A	26255	24578	40.00	37.44	pg	-6	15	
Endrin	A	20608	19577	40.00	38.00	pg	-5	15	
4,4'-DDD	A	20267	19102	40.00	37.70	pg	-6	15	
Endosulfan II	A	21574	20332	40.00	37.70	pg	-6	15	
4,4'-DDT	A	16780	14818	40.00	35.32	pg	-12	15	
Methoxychlor	A	6980.8	6918.2	200.0	198.2	pg	-1	15	
Endosulfan sulfate	A	17779	16283	40.00	36.64	pg	-8	15	
Endrin ketone	A	22250	20586	40.00	37.01	pg	-7	15	
TCMX	A	23389	21216	40.00	36.28	pg	-9	15	
Decachlorobiphenyl	A	14078	12114	40.00	34.42	pg	-14	15	
alpha-BHC	B	20003	17347	20.00	17.34	pg	-13	15	
gamma-BHC	B	18296	15560	20.00	17.01	pg	-15	15	
beta-BHC	B	7529.0	6536.8	20.00	17.36	pg	-13	15	
delta-BHC	B	16959	14118	20.00	16.65	pg	**-17**	15	c- ***
Heptachlor	B	17420	14889	20.00	17.09	pg	-15	15	
Aldrin	B	16128	13868	20.00	17.20	pg	-14	15	
Heptachlor epoxide	B	15039	12896	20.00	17.15	pg	-14	15	
gamma-Chlordane	B	15125	13226	20.00	17.49	pg	-13	15	
alpha-Chlordane	B	14381	12714	20.00	17.68	pg	-12	15	
4,4'-DDE	B	14351	13285	40.00	37.03	pg	-7	15	
Endosulfan I	B	13718	12037	20.00	17.55	pg	-12	15	
Dieldrin	B	14464	13388	40.00	37.02	pg	-7	15	
Endrin	B	11477	10975	40.00	38.25	pg	-4	15	
4,4'-DDD	B	10999	10613	40.00	38.60	pg	-4	15	
Endosulfan II	B	12780	12001	40.00	37.56	pg	-6	15	
4,4'-DDT	B	11157	10390	40.00	37.25	pg	-7	15	
Methoxychlor	B	4253.4	4258.0	200.0	200.2	pg	0	15	
Endosulfan sulfate	B	10689	10230	40.00	38.28	pg	-4	15	
Endrin ketone	B	13021	12830	40.00	39.42	pg	-1	15	
TCMX	B	12902	11229	40.00	34.81	pg	-13	15	
Decachlorobiphenyl	B	11011	10264	40.00	37.29	pg	-7	15	
Average EPA 8081A	A	(n=22)					11	15	
Average EPA 8081A	B	(n=22)					9	15	

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187065 PEST Water
EPA 8081A

Inst : GC23 Run Name: pest_4 IDF : 1.0
Seqnum : 806219433006 File : 152_006 Time : 01-JUN-2006 12:08
Cal : 806195056001 Caldate : 15-MAY-2006
Standards: S2997

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	38568	33540	20.00	17.39	pg	-13	15	
gamma-BHC	A	34321	29023	20.00	16.91	pg	-15	15	
beta-BHC	A	13369	10889	20.00	16.29	pg	**-19**	15	c- ***
delta-BHC	A	33337	27670	20.00	16.60	pg	**-17**	15	c- ***
Heptachlor	A	29173	25667	20.00	17.60	pg	-12	15	
Aldrin	A	29840	26499	20.00	17.76	pg	-11	15	
Heptachlor epoxide	A	26882	24023	20.00	17.87	pg	-11	15	
gamma-Chlordane	A	26936	23849	20.00	17.71	pg	-11	15	
alpha-Chlordane	A	25536	22600	20.00	17.70	pg	-11	15	
4,4'-DDE	A	21401	15670	40.00	29.29	pg	**-27**	15	c- ***
Endosulfan I	A	31049	33466	20.00	21.56	pg	8	15	
Dieldrin	A	26255	25150	40.00	38.32	pg	-4	15	
Endrin	A	20608	19196	40.00	37.26	pg	-7	15	
4,4'-DDD	A	20267	19196	40.00	37.89	pg	-5	15	
Endosulfan II	A	21574	21203	40.00	39.31	pg	-2	15	
4,4'-DDT	A	16780	14816	40.00	35.32	pg	-12	15	
Methoxychlor	A	6980.8	6570.3	200.0	188.2	pg	-6	15	
Endosulfan sulfate	A	17779	16909	40.00	38.04	pg	-5	15	
Endrin ketone	A	22250	21473	40.00	38.60	pg	-3	15	
TCMX	A	23389	21116	40.00	36.11	pg	-10	15	
Decachlorobiphenyl	A	14078	11879	40.00	33.75	pg	**-16**	15	c-
alpha-BHC	B	20003	16733	20.00	16.73	pg	**-16**	15	c- ***
gamma-BHC	B	18296	14983	20.00	16.38	pg	**-18**	15	c- ***
beta-BHC	B	7529.0	6326.4	20.00	16.81	pg	**-16**	15	c- ***
delta-BHC	B	16959	13776	20.00	16.25	pg	**-19**	15	c- ***
Heptachlor	B	17420	14025	20.00	16.10	pg	**-19**	15	c- ***
Aldrin	B	16128	13435	20.00	16.66	pg	**-17**	15	c- ***
Heptachlor epoxide	B	15039	12802	20.00	17.03	pg	-15	15	
gamma-Chlordane	B	15125	13233	20.00	17.50	pg	-13	15	
alpha-Chlordane	B	14381	12334	20.00	17.15	pg	-14	15	
4,4'-DDE	B	14351	12781	40.00	35.62	pg	-11	15	
Endosulfan I	B	13718	11745	20.00	17.12	pg	-14	15	
Dieldrin	B	14464	12904	40.00	35.68	pg	-11	15	
Endrin	B	11477	10347	40.00	36.06	pg	-10	15	
4,4'-DDD	B	10999	10322	40.00	37.54	pg	-6	15	
Endosulfan II	B	12780	12150	40.00	38.03	pg	-5	15	
4,4'-DDT	B	11157	9986.7	40.00	35.80	pg	-10	15	
Methoxychlor	B	4253.4	3995.4	200.0	187.9	pg	-6	15	
Endosulfan sulfate	B	10689	10141	40.00	37.95	pg	-5	15	
Endrin ketone	B	13021	12419	40.00	38.15	pg	-5	15	
TCMX	B	12902	10795	40.00	33.47	pg	**-16**	15	c-
Decachlorobiphenyl	B	11011	9675.1	40.00	35.15	pg	-12	15	
Average EPA 8081A	A	(n=22)					11	15	
Average EPA 8081A	B	(n=22)					12	15	

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187065 PEST Water
EPA 8081A

Inst : GC23 Run Name: pest_3 IDF : 1.0
Seqnum : 806219433021 File : 152_021 Time : 01-JUN-2006 19:33
Cal : 806195056001 Caldate : 15-MAY-2006
Standards: S2996

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	38568	35828	10.00	9.290	pg	-7	15	
gamma-BHC	A	34321	31108	10.00	9.064	pg	-9	15	
beta-BHC	A	13369	12142	10.00	9.082	pg	-9	15	
delta-BHC	A	33337	29375	10.00	8.811	pg	-12	15	
Heptachlor	A	29173	28022	10.00	9.605	pg	-4	15	
Aldrin	A	29840	28479	10.00	9.544	pg	-5	15	
Heptachlor epoxide	A	26882	26154	10.00	9.729	pg	-3	15	
gamma-Chlordane	A	26936	25988	10.00	9.648	pg	-4	15	
alpha-Chlordane	A	25536	25641	10.00	10.04	pg	0	15	
4,4'-DDE	A	21401	17843	20.00	16.67	pg	**-17**	15	c- ***
Endosulfan I	A	31049	35772	10.00	11.52	pg	15	15	
Dieldrin	A	26255	26076	20.00	19.86	pg	-1	15	
Endrin	A	20608	21524	20.00	20.89	pg	4	15	
4,4'-DDD	A	20267	21384	20.00	21.10	pg	6	15	
Endosulfan II	A	21574	21664	20.00	20.08	pg	0	15	
4,4'-DDT	A	16780	15736	20.00	18.76	pg	-6	15	
Methoxychlor	A	6980.8	7258.2	100.0	104.0	pg	4	15	
Endosulfan sulfate	A	17779	19323	20.00	21.74	pg	9	15	
Endrin ketone	A	22250	23839	20.00	21.43	pg	7	15	
TCMX	A	23389	22577	20.00	19.31	pg	-3	15	
Decachlorobiphenyl	A	14078	11817	20.00	16.79	pg	**-16**	15	c-
alpha-BHC	B	20003	18612	10.00	9.305	pg	-7	15	
gamma-BHC	B	18296	16837	10.00	9.203	pg	-8	15	
beta-BHC	B	7529.0	7107.6	10.00	9.440	pg	-6	15	
delta-BHC	B	16959	15146	10.00	8.931	pg	-11	15	
Heptachlor	B	17420	15885	10.00	9.119	pg	-9	15	
Aldrin	B	16128	15073	10.00	9.346	pg	-7	15	
Heptachlor epoxide	B	15039	14045	10.00	9.339	pg	-7	15	
gamma-Chlordane	B	15125	14331	10.00	9.475	pg	-5	15	
alpha-Chlordane	B	14381	13831	10.00	9.618	pg	-4	15	
4,4'-DDE	B	14351	13484	20.00	18.79	pg	-6	15	
Endosulfan I	B	13718	13684	10.00	9.975	pg	0	15	
Dieldrin	B	14464	14180	20.00	19.61	pg	-2	15	
Endrin	B	11477	11984	20.00	20.88	pg	4	15	
4,4'-DDD	B	10999	11216	20.00	20.39	pg	2	15	
Endosulfan II	B	12780	12828	20.00	20.08	pg	0	15	
4,4'-DDT	B	11157	8903.1	20.00	15.96	pg	**-20**	15	c- ***
Methoxychlor	B	4253.4	4324.4	100.0	101.7	pg	2	15	
Endosulfan sulfate	B	10689	10931	20.00	20.45	pg	2	15	
Endrin ketone	B	13021	13414	20.00	20.60	pg	3	15	
TCMX	B	12902	12250	20.00	18.99	pg	-5	15	
Decachlorobiphenyl	B	11011	10645	20.00	19.34	pg	-3	15	
Average EPA 8081A	A	(n=22)					7	15	
Average EPA 8081A	B	(n=22)					5	15	

-=low bias c=CCV

SEQUENCE SUMMARY FOR 187065 PEST Water
Curtis & Tompkins Laboratories

Sequence: 806195056 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 15-MAY-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	135_001	X	primer			15-MAY-2006 10:56	1.0							
002	135_002	X	primer			15-MAY-2006 16:29	1.0							
003	135_003	X	primer			15-MAY-2006 16:58	1.0							
004	135_004	X	primer			15-MAY-2006 17:27	1.0							
005	135_005	X	primer			15-MAY-2006 17:56	1.0							
006	135_006	X	primer			15-MAY-2006 18:24	1.0							
007	135_007	X	primer			15-MAY-2006 18:53	1.0							
008	135_008	X	primer			15-MAY-2006 19:22	1.0							
009	135_009	X	primer			15-MAY-2006 19:51	1.0							
010	135_010	X	primer			15-MAY-2006 20:20	1.0							
011	135_011	X	hex			15-MAY-2006 20:48	1.0							
012	135_012	X	hex			15-MAY-2006 21:17	1.0							
013	135_013	PEM	pem			15-MAY-2006 21:46	1.0			1			1	
014	135_014	X	hex			15-MAY-2006 22:15	1.0							
015	135_015	ICAL	pest_1			15-MAY-2006 22:44	1.0						2	181
016	135_016	ICAL	pest_2			15-MAY-2006 23:13	1.0			1			3	
017	135_017	ICAL	pest_3			15-MAY-2006 23:41	1.0			1			4	
018	135_018	ICAL	pest_4			16-MAY-2006 00:10	1.0			1			5	
019	135_019	ICAL	pest_5			16-MAY-2006 00:39	1.0			1			6	
020	135_020	ICAL	pest_6			16-MAY-2006 01:08	1.0						7	
021	135_021	ICAL	pest_7			16-MAY-2006 01:37	1.0						8	
022	135_022	X	hex			16-MAY-2006 02:06	1.0							
023	135_023	ICV	icv			16-MAY-2006 02:35	1.0	1		1			9	
024	135_024	X	icv			16-MAY-2006 03:03	1.0						9	
025	135_025	X	pem			16-MAY-2006 03:32	1.0						1	
026	135_026	X	hex			16-MAY-2006 04:01	1.0							

Stds used: 1=S3206 2=S2827 3=S3283 4=S2996 5=S2997 6=S3111 7=S2828 8=S2823 9=S3067

SEQUENCE SUMMARY FOR 187065 PEST Water
Curtis & Tompkins Laboratories

Sequence: 806216555 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 30-MAY-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	150_002	PEM	pem			30-MAY-2006 09:15	1.0	1.0			1	1	
003	150_003	CCV	pest_2			30-MAY-2006 09:44	1.0	1.0	1		1	2	
004	150_004	X	hex			30-MAY-2006 10:20	1.0						
005	150_005	MSS	186997-002	113804	Soil	30-MAY-2006 10:49	2.0	0.6633	1		1		
006	150_006	SAMPLE	186997-004	113804	Soil	30-MAY-2006 11:18	5.0	0.6696	1		1		
007	150_007	SAMPLE	186997-001	113804	Soil	30-MAY-2006 11:46	10.0	0.6623	2		1		2:DDE44=306.944
008	150_008	MSS	186997-003	113804	Soil	30-MAY-2006 12:16	10.0	0.6702	2		1		2:DDE44=310.398
009	150_009	SAMPLE	186997-001	113804	Soil	30-MAY-2006 12:56	50.0	0.6623	1		1		1:DDE44=106.513
010	150_010	SAMPLE	186997-001	113804	Soil	30-MAY-2006 13:35	100.0	0.6623	1		1		
011	150_011	SAMPLE	186997-003	113804	Soil	30-MAY-2006 14:03	100.0	0.6702	1		1		
012	150_012	PEM	pem			30-MAY-2006 14:32	1.0	1.0			1	1	
013	150_013	CCV	pest_3			30-MAY-2006 15:01	1.0	1.0	1		1	3	
014	150_014	X	hex			30-MAY-2006 15:55	1.0						
015	150_015	BLANK	QC341755	113870	Water	30-MAY-2006 16:24	1.0	0.01	5		1		
016	150_016	BS	QC341756	113870	Water	30-MAY-2006 16:53	1.0	0.01	5		1		
017	150_017	BSD	QC341757	113870	Water	30-MAY-2006 17:22	1.0	0.01	5		1		
018	150_018	SAMPLE	187080-019	113870	Water	30-MAY-2006 17:51	1.0	0.009709	5		1		
019	150_019	SAMPLE	187076-003	113870	Water	30-MAY-2006 18:19	5.0	0.01176	5		1		
020	150_020	SAMPLE	187020-014	113870	Water	30-MAY-2006 18:48	5.0	0.009709	5		1		
021	150_021	SAMPLE	187020-015	113870	Water	30-MAY-2006 19:17	1.0	0.009709	5		1		
022	150_022	SAMPLE	187020-017	113870	Water	30-MAY-2006 19:45	1.0	0.009434	5		1		
023	150_023	SAMPLE	187065-012	113870	Water	30-MAY-2006 20:14	5.0	0.009524	6	2	1		1:BHCBET=159.018
024	150_024	SAMPLE	187065-013	113870	Water	30-MAY-2006 20:43	5.0	0.009524	6	2	1		1:BHCBET=155.414
025	150_025	X	hex			30-MAY-2006 21:12	1.0						
026	150_026	PEM	pem			30-MAY-2006 21:41	1.0	1.0			1	1	
027	150_027	X	pest_4			30-MAY-2006 22:09	1.0	1.0			1	4 ac	
028	150_028	CCV	pest_4			30-MAY-2006 22:38	1.0	1.0	5		1	4	
029	150_029	X	pem			30-MAY-2006 23:07	1.0					1	
030	150_030	X	hex			30-MAY-2006 23:36	1.0						
031	150_031	SAMPLE	187070-001	113870	Water	31-MAY-2006 00:05	10.0	0.009615	6		1		

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Stds used: 1=S3206 2=S3283 3=S2996 4=S2997
Flags used: ac=average CCV drift out

SEQUENCE SUMMARY FOR 187065 PEST Water
Curtis & Tompkins Laboratories

Sequence: 806216555 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 30-MAY-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	150_032	SAMPLE	187070-002	113870	Water	31-MAY-2006 00:34	10.0	0.009524	6		1		
033	150_033	X	hex			31-MAY-2006 01:02	1.0						
034	150_034	PEM	pem			31-MAY-2006 01:31	1.0	1.0			1	1	
035	150_035	CCV	pest_2			31-MAY-2006 02:00	1.0	1.0	2		1	2	
036	150_036	X	pest_2			31-MAY-2006 02:29	1.0					2	
037	150_037	X	pem			31-MAY-2006 02:58	1.0					1	
038	150_038	X	hex			31-MAY-2006 03:27	1.0						

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Stds used: 1=S3206 2=S3283 3=S2996 4=S2997
Flags used: ac=average CCV drift out

SEQUENCE SUMMARY FOR 187065 PEST Water
Curtis & Tompkins Laboratories

Sequence: 806219433 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 01-JUN-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	152_001	X	hex			01-JUN-2006 09:13	1.0						
002	152_002	PEM	pem			01-JUN-2006 09:42	1.0	1.0			1	1	
003	152_003	X	pest_4			01-JUN-2006 10:11	1.0	1.0			1	2	
004	152_004	X	pest_4			01-JUN-2006 10:40	1.0	1.0			1	2	
005	152_005	X	pest_4			01-JUN-2006 11:33	1.0	1.0			1	2 ac	
006	152_006	CCV	pest_4			01-JUN-2006 12:08	1.0	1.0	9		1	2	
007	152_007	X	hex			01-JUN-2006 13:12	1.0						
008	152_008	BLANK	QC341995	113929	Water	01-JUN-2006 13:41	1.0	0.01	10	1	1		
009	152_009	BS	QC341996	113929	Water	01-JUN-2006 14:10	1.0	0.01	10		1		
010	152_010	BSD	QC341997	113929	Water	01-JUN-2006 14:38	1.0	0.01	10	2	1		
011	152_011	SAMPLE	187112-013	113929	Water	01-JUN-2006 15:07	1.0	0.009434	10		1		
012	152_012	SAMPLE	187121-005	113929	Water	01-JUN-2006 15:36	1.0	0.01111	10		1		
013	152_013	SAMPLE	187121-008	113929	Water	01-JUN-2006 16:05	1.0	0.009434	10		1		
014	152_014	SAMPLE	187065-012	113870	Water	01-JUN-2006 16:38	10.0	0.009524	10	2	1		
015	152_015	SAMPLE	187065-013	113870	Water	01-JUN-2006 17:07	10.0	0.009524	10	2	1		184
016	152_016	BLANK	QC341960	113922	Soil	01-JUN-2006 17:36	1.0	0.6566	10		1 X		
017	152_017	LCS	QC341961	113922	Soil	01-JUN-2006 18:05	1.0	0.657	10		1 X		
019	152_019	PEM	pem			01-JUN-2006 18:35	1.0	1.0			1	1	
020	152_020	X	pest_3			01-JUN-2006 19:04	1.0	1.0			1	3	
021	152_021	CCV	pest_3			01-JUN-2006 19:33	1.0	1.0	2		1	3	
022	152_022	X	pem			01-JUN-2006 20:02	1.0					1	
023	152_023	ICAL	chlordane			01-JUN-2006 20:31	1.0	1.0				4	
024	152_024	X	chlordane			01-JUN-2006 20:59	1.0					4	
025	152_025	SAMPLE	187072-006	113922	Soil	01-JUN-2006 21:28	10.0	0.6723	5		1		
026	152_026	SAMPLE	187072-007	113922	Soil	01-JUN-2006 21:57	10.0	0.6693	5		1		
027	152_027	SAMPLE	187080-001	113922	Soil	01-JUN-2006 22:26	1.0	0.664	5		1		
028	152_028	SAMPLE	187080-002	113922	Soil	01-JUN-2006 22:55	1.0	0.6741	5		1		
029	152_029	SAMPLE	187080-003	113922	Soil	01-JUN-2006 23:24	10.0	0.6627	5		1		
030	152_030	SAMPLE	187080-004	113922	Soil	01-JUN-2006 23:52	5.0	0.6745	5		1		
031	152_031	SAMPLE	187080-005	113922	Soil	02-JUN-2006 00:21	5.0	0.6581	5	2	1		

Stds used: 1=S3206 2=S2997 3=S2996 4=S3109 5=S3283
Flags used: ac=average CCV drift out

SEQUENCE SUMMARY FOR 187065 PEST Water
Curtis & Tompkins Laboratories

Sequence: 806219433 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 01-JUN-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	152_032	SAMPLE	187080-006	113922	Soil	02-JUN-2006 00:50	5.0	0.6596	5		1		
033	152_033	SAMPLE	187080-009	113922	Soil	02-JUN-2006 01:19	10.0	0.6601	5		1		
034	152_034	SAMPLE	187080-010	113922	Soil	02-JUN-2006 01:47	2.0	0.6636	5		1		
035	152_035	PEM	pem			02-JUN-2006 02:16	1.0	1.0			1	1	
036	152_036	CCV	pest_2			02-JUN-2006 02:45	1.0	1.0	6		1	5	
037	152_037	X	pest_2			02-JUN-2006 03:14	1.0					5	
038	152_038	X	pem			02-JUN-2006 03:43	1.0					1	
039	152_039	CCV	chlordane			02-JUN-2006 04:11	1.0	1.0			1	4	
040	152_040	X	chlordane			02-JUN-2006 04:40	1.0					4	
041	152_041	SAMPLE	187080-011	113922	Soil	02-JUN-2006 05:09	1.0	0.6629	15		1		
042	152_042	SAMPLE	187080-012	113922	Soil	02-JUN-2006 05:37	1.0	0.6698	15		1		
043	152_043	SAMPLE	187080-013	113922	Soil	02-JUN-2006 06:06	1.0	0.6707	15		1		
044	152_044	SAMPLE	187080-014	113922	Soil	02-JUN-2006 06:35	5.0	0.6741	15		1		
045	152_045	SAMPLE	187080-015	113922	Soil	02-JUN-2006 07:04	5.0	0.6669	15		1		
046	152_046	SAMPLE	187080-016	113922	Soil	02-JUN-2006 07:33	1.0	0.6581	15		1		185
047	152_047	MSS	187080-017	113922	Soil	02-JUN-2006 08:01	1.0	0.6658	15		1		
048	152_048	SAMPLE	187080-018	113922	Soil	02-JUN-2006 08:30	5.0	0.6631	15		1		
049	152_049	MS	QC341962	113922	Soil	02-JUN-2006 08:59	1.0	0.6671	16	5	1		
050	152_050	MSD	QC341963	113922	Soil	02-JUN-2006 09:28	1.0	0.6662	16	5	1		
051	152_051	PEM	PEM			02-JUN-2006 09:57	1.0	1.0			1	1	
052	152_052	X	PEST_4			02-JUN-2006 10:25	1.0					2	
053	152_053	CCV	PEST_4			02-JUN-2006 10:55	1.0	1.0	14		1	2	
054	152_054	CCV	CHLORDANE			02-JUN-2006 11:26	1.0	1.0			1	4	
055	152_055	X	CHLORDANE			02-JUN-2006 11:56	1.0					4	
056	152_056	X	HEX			02-JUN-2006 12:24	1.0						
057	152_057	BLANK	QC342321	114014	Soil	02-JUN-2006 13:02	1.0	0.6667	14	3	1		
058	152_058	LCS	QC342322	114014	Soil	02-JUN-2006 13:32	1.0	0.6667	15	28	1		
059	152_059	LCS	QC342322	114014	Soil	02-JUN-2006 14:32	1.0						
060	152_060	LCS	QC342322	114014	Soil	02-JUN-2006 15:13	1.0	0.6667	15		1		
061	152_061	BLANK	QC342025	113938	Soil	02-JUN-2006 17:21	1.0	0.6662	14		1		

Stds used: 1=S3206 2=S2997 3=S2996 4=S3109 5=S3283
Flags used: ac=average CCV drift out

SEQUENCE SUMMARY FOR 187065 PEST Water
Curtis & Tompkins Laboratories

Sequence: 806219433 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 01-JUN-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used >LR
062	152_062	LCS	QC342026	113938	Soil	02-JUN-2006 17:50	1.0	0.6653	15	1	
063	152_063	SAMPLE	187125-008	113938	Soil	02-JUN-2006 18:19	1.0	0.6671	14	1	
064	152_064	SAMPLE	187125-010	113938	Soil	02-JUN-2006 18:48	20.0	0.6723	14	1	1:DDE44=135.090
065	152_065	SAMPLE	187125-011	113938	Soil	02-JUN-2006 19:17	50.0	0.6671	14	1	1:DDE44=135.676
066	152_066	SAMPLE	187125-013	113938	Soil	02-JUN-2006 19:46	20.0	0.6691	14	1	
067	152_067	X	HEX			02-JUN-2006 20:14	1.0				
068	152_068	PEM	PEM			02-JUN-2006 20:43	1.0	1.0		1	1
069	152_069	CCV	PEST_3			02-JUN-2006 21:12	1.0	1.0	4	1	3
070	152_070	X	PEST_3			02-JUN-2006 21:41	1.0				3
071	152_071	X	PEM			02-JUN-2006 22:10	1.0				1
072	152_072	X	HEX			02-JUN-2006 22:39	1.0				
073	152_073	SAMPLE	187125-014	113938	Soil	02-JUN-2006 23:07	1.0	0.6667	5	1	
074	152_074	SAMPLE	187125-017	113938	Soil	02-JUN-2006 23:36	1.0	0.6673	5	1	
075	152_075	SAMPLE	187125-018	113938	Soil	03-JUN-2006 00:05	1.0	0.6682	5	1	
076	152_076	SAMPLE	187125-020	113938	Soil	03-JUN-2006 00:34	1.0	0.67	5	1	
077	152_077	SAMPLE	187125-021	113938	Soil	03-JUN-2006 01:03	1.0	0.672	5	1	
078	152_078	SAMPLE	187125-023	113938	Soil	03-JUN-2006 01:32	20.0	0.6702	6	1	2:DDE44=261.371
079	152_079	SAMPLE	187125-024	113938	Soil	03-JUN-2006 02:00	1.0	0.6705	5	1	
080	152_080	SAMPLE	187125-026	113938	Soil	03-JUN-2006 02:29	20.0	0.6711	6	1	2:DDE44=302.792
081	152_081	SAMPLE	187125-027	113938	Soil	03-JUN-2006 02:58	1.0	0.6723	5	1	
082	152_082	SAMPLE	187125-029	113938	Soil	03-JUN-2006 03:27	20.0	0.6671	6	1	2:DDE44=311.600
083	152_083	X	HEX			03-JUN-2006 03:56	1.0				
084	152_084	PEM	PEM			03-JUN-2006 04:25	1.0	1.0		1	1
085	152_085	X	PEST_2			03-JUN-2006 04:53	1.0	1.0		1	5
086	152_086	CCV	PEST_2			03-JUN-2006 05:22	1.0	1.0	6	1	5
087	152_087	X	PEM			03-JUN-2006 05:51	1.0				1
088	152_088	X	HEX			03-JUN-2006 06:20	1.0				
089	152_089	SAMPLE	187125-030	113938	Soil	03-JUN-2006 06:49	1.0	0.6725	12	1	
090	152_090	SAMPLE	187125-032	113938	Soil	03-JUN-2006 07:17	1.0	0.668	12	1	
091	152_091	MSS	187125-033	113938	Soil	03-JUN-2006 07:46	1.0	0.6678	12	1	

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Stds used: 1=S3206 2=S2997 3=S2996 4=S3109 5=S3283
Flags used: ac=average CCV drift out

SEQUENCE SUMMARY FOR 187065 PEST Water
Curtis & Tompkins Laboratories

Sequence: 806219433 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 01-JUN-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
092	152_092	SAMPLE	187125-036	113938	Soil	03-JUN-2006 08:15	10.0	0.6716	12		1		
093	152_093	SAMPLE	187125-037	113938	Soil	03-JUN-2006 08:44	1.0	0.672	12	1	1		
094	152_094	SAMPLE	187125-039	113938	Soil	03-JUN-2006 09:13	1.0	0.6711	12		1		
095	152_095	MS	QC342027	113938	Soil	03-JUN-2006 09:41	1.0	0.6723	13		1		
096	152_096	MSD	QC342028	113938	Soil	03-JUN-2006 10:10	1.0	0.6716	13	2	1		
097	152_097	X	HEX			03-JUN-2006 10:39	1.0						
098	152_098	PEM	PEM			03-JUN-2006 11:08	1.0	1.0			1	1	
099	152_099	X	PEST_4			03-JUN-2006 11:37	1.0	1.0			1	2 ac	
100	152_100	CCV	PEST_4			03-JUN-2006 12:05	1.0	1.0	11		1	2	
101	152_101	X	PEM			03-JUN-2006 12:34	1.0					1	
102	152_102	X	HEX			03-JUN-2006 13:03	1.0						

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Stds used: 1=S3206 2=S2997 3=S2996 4=S3109 5=S3283
Flags used: ac=average CCV drift out

REPORTING SUMMARY FOR 187065 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
187065-012	alpha-BHC	GC23	B	05/30/06 20:14
187065-012	beta-BHC	GC23	A	06/01/06 16:38
187065-012	gamma-BHC	GC23	B	05/30/06 20:14
187065-012	delta-BHC	GC23	B	05/30/06 20:14
187065-012	Heptachlor	GC23	B	05/30/06 20:14
187065-012	Aldrin	GC23	B	05/30/06 20:14
187065-012	Heptachlor epoxide	GC23	B	05/30/06 20:14
187065-012	Endosulfan I	GC23	B	05/30/06 20:14
187065-012	Dieldrin	GC23	B	05/30/06 20:14
187065-012	4,4'-DDE	GC23	B	05/30/06 20:14
187065-012	Endrin	GC23	B	05/30/06 20:14
187065-012	Endosulfan II	GC23	B	05/30/06 20:14
187065-012	Endosulfan sulfate	GC23	B	05/30/06 20:14
187065-012	4,4'-DDD	GC23	B	05/30/06 20:14
187065-012	4,4'-DDT	GC23	B	05/30/06 20:14
187065-012	alpha-Chlordane	GC23	B	05/30/06 20:14
187065-012	gamma-Chlordane	GC23	B	05/30/06 20:14
187065-012	Methoxychlor	GC23	B	05/30/06 20:14
187065-012	Endrin ketone	GC23	B	05/30/06 20:14
187065-012	Toxaphene	GC23	B	05/30/06 20:14
187065-012	TCMX	GC23	B	05/30/06 20:14
187065-012	Decachlorobiphenyl	GC23	B	05/30/06 20:14
187065-013	alpha-BHC	GC23	B	05/30/06 20:43
187065-013	beta-BHC	GC23	A	06/01/06 17:07
187065-013	gamma-BHC	GC23	B	05/30/06 20:43
187065-013	delta-BHC	GC23	B	05/30/06 20:43
187065-013	Heptachlor	GC23	B	05/30/06 20:43
187065-013	Aldrin	GC23	B	05/30/06 20:43
187065-013	Heptachlor epoxide	GC23	B	05/30/06 20:43
187065-013	Endosulfan I	GC23	B	05/30/06 20:43
187065-013	Dieldrin	GC23	B	05/30/06 20:43
187065-013	4,4'-DDE	GC23	B	05/30/06 20:43
187065-013	Endrin	GC23	B	05/30/06 20:43
187065-013	Endosulfan II	GC23	B	05/30/06 20:43
187065-013	Endosulfan sulfate	GC23	B	05/30/06 20:43
187065-013	4,4'-DDD	GC23	B	05/30/06 20:43
187065-013	4,4'-DDT	GC23	B	05/30/06 20:43
187065-013	alpha-Chlordane	GC23	B	05/30/06 20:43
187065-013	gamma-Chlordane	GC23	B	05/30/06 20:43
187065-013	Methoxychlor	GC23	B	05/30/06 20:43
187065-013	Endrin ketone	GC23	B	05/30/06 20:43
187065-013	Toxaphene	GC23	B	05/30/06 20:43
187065-013	TCMX	GC23	B	05/30/06 20:43
187065-013	Decachlorobiphenyl	GC23	B	05/30/06 20:43
QC341755	alpha-BHC	GC23	B	05/30/06 16:24
QC341755	beta-BHC	GC23	B	05/30/06 16:24
QC341755	gamma-BHC	GC23	B	05/30/06 16:24
QC341755	delta-BHC	GC23	B	05/30/06 16:24
QC341755	Heptachlor	GC23	B	05/30/06 16:24
QC341755	Aldrin	GC23	B	05/30/06 16:24
QC341755	Heptachlor epoxide	GC23	B	05/30/06 16:24
QC341755	Endosulfan I	GC23	B	05/30/06 16:24

REPORTING SUMMARY FOR 187065 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC341755	Dieldrin	GC23	B	05/30/06 16:24
QC341755	4,4'-DDE	GC23	B	05/30/06 16:24
QC341755	Endrin	GC23	B	05/30/06 16:24
QC341755	Endosulfan II	GC23	B	05/30/06 16:24
QC341755	Endosulfan sulfate	GC23	B	05/30/06 16:24
QC341755	4,4'-DDD	GC23	B	05/30/06 16:24
QC341755	4,4'-DDT	GC23	B	05/30/06 16:24
QC341755	alpha-Chlordane	GC23	B	05/30/06 16:24
QC341755	gamma-Chlordane	GC23	B	05/30/06 16:24
QC341755	Methoxychlor	GC23	B	05/30/06 16:24
QC341755	Endrin ketone	GC23	B	05/30/06 16:24
QC341755	Toxaphene	GC23	B	05/30/06 16:24
QC341755	TCMX	GC23	B	05/30/06 16:24
QC341755	Decachlorobiphenyl	GC23	B	05/30/06 16:24
QC341756	gamma-BHC	GC23	B	05/30/06 16:53
QC341756	Heptachlor	GC23	B	05/30/06 16:53
QC341756	Aldrin	GC23	B	05/30/06 16:53
QC341756	Dieldrin	GC23	B	05/30/06 16:53
QC341756	Endrin	GC23	B	05/30/06 16:53
QC341756	4,4'-DDT	GC23	B	05/30/06 16:53
QC341756	TCMX	GC23	B	05/30/06 16:53
QC341756	Decachlorobiphenyl	GC23	B	05/30/06 16:53
QC341757	gamma-BHC	GC23	B	05/30/06 17:22
QC341757	Heptachlor	GC23	B	05/30/06 17:22
QC341757	Aldrin	GC23	B	05/30/06 17:22
QC341757	Dieldrin	GC23	B	05/30/06 17:22
QC341757	Endrin	GC23	B	05/30/06 17:22
QC341757	4,4'-DDT	GC23	B	05/30/06 17:22
QC341757	TCMX	GC23	B	05/30/06 17:22
QC341757	Decachlorobiphenyl	GC23	B	05/30/06 17:22

Curtis & Tompkins Laboratories **Sample Preparation Summary** **30-MAY-2006 15:16**

Batch Number : 113870
Date Extracted: 26-MAY-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : 8081
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S3509B
Spike #2 ID : S3083E
Spike #3 ID :
SOP Version : 8081w_rv14

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
187020-014		Treadwell & Rollo	Water	1030	mL	10	0.009709	1	7	.025	0		8081		
187020-015		Treadwell & Rollo	Water	1030	mL	10	0.009709	1	7	.025	0		8081		
187020-017		Treadwell & Rollo	Water	1060	mL	10	0.009434	1	7	.025	0		8081		
187065-012		Treadwell & Rollo	Water	1050	mL	10	0.009524	1	7	.025	0		8081		
187065-013		Treadwell & Rollo	Water	1050	mL	10	0.009524	1	7	.025	0		8081		
187070-001		Montezuma Wetlands LLC	Water	1040	mL	10	0.009615	1	7	.025	0		8081		
187070-002		Montezuma Wetlands LLC	Water	1050	mL	10	0.009524	1	7	.025	0		8081		
187076-003		CH2M Hill Constructors Inc.	Water	850	mL	10	0.011765	1	7	.025	0		8081		
187080-019		Treadwell & Rollo	Water	1030	mL	10	0.009709	1	7	.025	0		8081		
QC341755	BLANK		Water	1000	mL	10	0.010000	1		.025	0		8081		
QC341756	BS		Water	1000	mL	10	0.010000	1		.025	.025		8081		
QC341757	BSD		Water	1000	mL	10	0.010000	1		.025	.025		8081		

Prep Chemist: Jessie Mee Reviewed By: KRey Date: 30 MAY 06

Relinquished By: Julie Mizzatta Received By: [illegible] Date: 5-31-06

Curtis & Tompkins, Ltd

8081 WATER PREP LOG

BK2210

LIMS Batch No: 113870
LIMS Analysis: 8081
Extracted by: JDM
Date Extracted: 26 May 06

Extraction Method:
- ☐ EPA 3510c sep. funnel
- ☒ EPA 3520c cont. L/L
- ☐ _____

Cleanup Method (if needed):
- ☐ EPA 3640a GPC
- ☐ EPA 3620b Florisil
- ☐ _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
187020-014 E	1030	7	10.0		
15 E	1030				
17 G	1060				
187065-012 L	1050				
13 L	1050				
187070-001 G F	1040				
02 F	1050				
187076-003 D	950				
187080-019 B	1030				
MB QC341755	1000	NA			
BS 56					
BSD 57					
					JZM 5/30/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.025 mL of surrogate solution was added to all samples	S3509B	JDM 5/26/06
0.025 mL of matrix spiking solution was added to all spikes	S3083E	
☒ Samples continuously extracted with about 450 mL of CH_2Cl_2	EM4610	
Extraction Start Time:	1635	
Extraction End Time:	10:35	MOSB 5/27/06
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	N/A	JZM 5/30/06
Extracts filtered through baked, CH_2Cl_2 rinsed ~~powdered~~ granular Na_2SO_4	EM45091549	
Exchanged 2x with Hexane	CQ108	
Concentrated: ☒ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Florisil	N/A	

Jessica Lee 5/26/06
Extraction Chemist **Date**

Contined from Page —
Continued on Page —

K Ley 30 MAY 06
Reviewed by **Date**

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8081A Water
As of 06/22/06

Analyte	Units	GC16 A	GC16 B	GC21 A	GC21 B	GC23 A	GC23 B
gamma-BHC	ug/L	0.0032	0.0025	0.0065	0.0039	0.0029	0.0039
Heptachlor	ug/L	0.0057	0.0061	0.0083	0.0056	0.0029	0.0055
Aldrin	ug/L	0.0066	0.0066	0.0094	0.0070	0.0062	0.0077
Dieldrin	ug/L	0.0074	0.0070	0.011	0.0051	0.0041	0.0097
Endrin	ug/L	0.0095	0.0083	0.012	0.011	0.0054	0.011
4,4'-DDT	ug/L	0.011	0.0099	0.012	0.0071	0.0088	0.0087
alpha-BHC	ug/L	0.0029	0.0027	0.0063	0.0040	0.0032	0.0049
beta-BHC	ug/L	0.0033	0.0052	0.0061	0.011	0.0029	0.0055
delta-BHC	ug/L	0.0040	0.0026	0.0065	0.0023	0.0018	0.0041
Heptachlor epoxide	ug/L	0.0033	0.0032	0.0066	0.0097	0.0028	0.0044
gamma-Chlordane	ug/L	0.0041	0.0037	0.0064	0.011	0.0020	0.0042
alpha-Chlordane	ug/L	0.0045	0.0036	0.010	0.0052	0.0023	0.0052
Endosulfan I	ug/L	0.0043	0.0032	0.0062	0.0033	0.0026	0.0048
4,4'-DDE	ug/L	0.010	0.0082	0.011	0.0057	0.0045	0.0097
Endosulfan II	ug/L	0.0088	0.0073	0.013	0.0077	0.0066	0.0097
Endosulfan sulfate	ug/L	0.015	0.0087	0.0096	0.0054	0.0054	0.0093
4,4'-DDD	ug/L	0.0088	0.0090	0.011	0.0096	0.0033	0.010
Endrin aldehyde	ug/L	0.0084	0.0086	0.010	0.0092	0.0052	0.0088
Chlordane (Technical)	ug/L	0.19	0.19	0.26	0.21	0.17	0.21
Methoxychlor	ug/L	0.057	0.080	0.050	0.018	0.043	0.051
Endrin ketone	ug/L	0.027	0.0095	0.0083	0.023	0.0051	0.015
Toxaphene	ug/L	0.39	0.34	0.49	0.26	0.54	0.29

POLYAROMATIC HYDROCARBONS

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	FM14EX07GW102	Batch#:	113988
Lab ID:	187065-008	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000	Analyzed:	06/06/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.02
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	84	65-135
1-Methylnaphthalene (F)	86	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	1213GW101	Batch#:	113988
Lab ID:	187065-009	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000	Analyzed:	06/06/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.02
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	91	65-135
1-Methylnaphthalene (F)	93	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	FM14EX07GW101	Batch#:	113988
Lab ID:	187065-010	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000	Analyzed:	06/06/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.02
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	92	65-135
1-Methylnaphthalene (F)	94	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	DUP-05242006	Batch#:	113988
Lab ID:	187065-011	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000	Analyzed:	06/06/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.02
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	85	65-135
1-Methylnaphthalene (F)	87	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	1349MW100	Batch#:	113988
Lab ID:	187065-012	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000	Analyzed:	06/06/06

Analyte	Result	RL	MDL
Naphthalene	ND	1.0	
Acenaphthylene	ND	2.0	
Acenaphthene	3.6	1.0	
Fluorene	7.5	1.0	
Phenanthrene	4.9	0.50	
Anthracene	0.20 J	0.50	0.02
Fluoranthene	1.6	0.40	0.01
Pyrene	0.38	0.20	
Benzo(a)anthracene	0.11	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	115	65-135
1-Methylnaphthalene (F)	111	65-135

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	DUP0524063A	Batch#:	113988
Lab ID:	187065-013	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000	Analyzed:	06/06/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.98	
Acenaphthylene	ND	2.0	
Acenaphthene	4.3	0.98	
Fluorene	8.4	0.98	
Phenanthrene	5.8	0.49	
Anthracene	0.28 J	0.49	0.02
Fluoranthene	1.8	0.39	0.01
Pyrene	0.48	0.20	
Benzo(a)anthracene	0.14	0.10	
Chrysene	0.10	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	125	65-135
1-Methylnaphthalene (F)	110	65-135

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC342228	Batch#:	113988
Matrix:	Water	Prepared:	05/31/06
Units:	ug/L	Analyzed:	06/05/06

Analyte	Result	RL	MDL
Naphthalene	ND	1.0	
Acenaphthylene	ND	2.0	
Acenaphthene	ND	1.0	
Fluorene	ND	1.0	
Phenanthrene	ND	0.50	
Anthracene	ND	0.50	0.02
Fluoranthene	ND	0.40	0.01
Pyrene	ND	0.20	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	90	65-135
1-Methylnaphthalene (F)	95	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC342229	Batch#:	113988
Matrix:	Water	Prepared:	05/31/06
Units:	ug/L	Analyzed:	06/05/06

Analyte	Spiked	Result	%REC	Limits
Naphthalene	10.00	9.326	93	50-135
Fluorene	2.000	1.918	96	65-135
Pyrene	1.000	1.002	100	65-135
Benzo(a)pyrene	1.000	0.8403	84	65-135

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	89	65-135
1-Methylnaphthalene (F)	94	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	ZZZZZZZZZZ	Batch#:	113988
MSS Lab ID:	187086-001	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000	Analyzed:	06/05/06

Type: MS Lab ID: QC342230

Analyte	MSS Result	Spiked	Result	%REC	Limits
Naphthalene	<0.09607	9.615	8.100	84	50-135
Fluorene	<0.02771	1.923	2.182	113	65-135
Pyrene	<0.01005	0.9615	0.9126	95	65-135
Benzo(a)pyrene	<0.02475	0.9615	0.4967	52 *	65-135

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	89	65-135
1-Methylnaphthalene (F)	93	65-135

Type: MSD Lab ID: QC342231

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Naphthalene	9.901	8.026	81	50-135	4	35
Fluorene	1.980	1.906	96	65-135	16	35
Pyrene	0.9901	0.8877	90	65-135	6	35
Benzo(a)pyrene	0.9901	0.5665	57 *	65-135	10	35

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	85	65-135
1-Methylnaphthalene (F)	88	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187065 HPLC Water: EPA 8310

Inst : HPLC04
Calnum : 296199754001
Units : ug/L

Date : 18-MAY-2006 19:52
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	13800006	296199754006		18-MAY-2006 19:52	S3065
L2	13800007	296199754007		18-MAY-2006 20:24	S3064
L3	13800008	296199754008		18-MAY-2006 20:56	S3063
L4	13800009	296199754009		18-MAY-2006 21:27	S3062
L5	13800010	296199754010		18-MAY-2006 21:59	S3061
L6	13800011	296199754011		18-MAY-2006 22:31	S3060
L7	13800012	296199754012		18-MAY-2006 23:02	S3059

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Naphthalene	1	0.0127	0.0132	0.0131	0.0132	0.0131	0.0130	0.0129	LINR	-52.228	77.4002		0.0130	1.000	0.99	20	
Acenaphthylene	1	0.0092	0.0093	0.0094	0.0095	0.0094	0.0092	0.0091	LINR	-269.75	109.800		0.0093	1.000	0.99	20	
Acenaphthene	1	0.0052	0.0052	0.0052	0.0054	0.0053	0.0052	0.0051	LINR	-189.44	195.810		0.0052	1.000	0.99	20	
Fluorene	1	0.0627	0.0624	0.0622	0.0635	0.0628	0.0627	0.0625	LINR	-5.8158	16.0057		0.0627	1.000	0.99	20	
Phenanthrene	1	0.1770	0.1795	0.1810	0.1828	0.1804	0.1795	0.1796	LINR	-2.6724	5.57221		0.1800	1.000	0.99	20	
Anthracene	1	0.4152	0.4253	0.4257	0.4310	0.4281	0.4249	0.4232	LINR	-4.5965	2.36313		0.4248	1.000	0.99	20	
Fluoranthene	1	0.0412	0.0411	0.0410	0.0412	0.0406	0.0406	0.0407	LINR	-3.4660	24.6116		0.0409	1.000	0.99	20	
Pyrene	1	0.0368	0.0344	0.0333	0.0343	0.0336	0.0336	0.0338	LINR	-0.0362	29.6394		0.0342	1.000	0.99	20	
Benzo(a)anthracene	1	0.0900	0.0968	0.0940	0.0956	0.0948	0.0945	0.0948	LINR	0.57638	10.5497		0.0943	1.000	0.99	20	
Chrysene	1	0.1270	0.1360	0.1344	0.1356	0.1346	0.1336	0.1335	LINR	-3.4437	7.49542		0.1335	1.000	0.99	20	
Benzo(b)fluoranthene	1	0.1037	0.1043	0.1063	0.1075	0.1067	0.1065	0.1063	LINR	-2.9110	9.40726		0.1059	1.000	0.99	20	
Benzo(k)fluoranthene	1	0.0788	0.0790	0.0823	0.0837	0.0837	0.0836	0.0835	LINR	1.73999	11.9711		0.0821	1.000	0.99	20	
Benzo(a)pyrene	1	0.0878	0.0823	0.0860	0.0884	0.0876	0.0881	0.0886	LINR	6.09778	11.2895		0.0870	1.000	0.99	20	
Dibenz(a,h)anthracene	1	0.0186	0.0202	0.0213	0.0218	0.0220	0.0221	0.0223	LINR	23.8574	44.7933		0.0212	1.000	0.99	20	
Benzo(g,h,i)perylene	1	0.0317	0.0340	0.0353	0.0359	0.0358	0.0363	0.0368	LINR	28.4784	27.1931		0.0351	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	1	0.0880	0.0965	0.0978	0.1005	0.0999	0.1003	0.1005	LINR	4.90163	9.94487		0.0976	1.000	0.99	20	
1-Methylnaphthalene (UV)	1	0.0086	0.0086	0.0086	0.0087	0.0085	0.0084	0.0084	LINR	-341.04	119.464		0.0085	1.000	0.99	20	
Acenaphthylene	2	0.0277	0.0280	0.0280	0.0283	0.0280	0.0278	0.0278	LINR	-84.965	36.0430		0.0279	1.000	0.99	20	
1-Methylnaphthalene (UV)	2	0.0030	0.0031	0.0031	0.0031	0.0031	0.0030	0.0030	LINR	-288.17	330.724		0.0031	1.000	0.99	20	
Naphthalene	3	0.0110	0.0111	0.0111	0.0112	0.0110	0.0110	0.0109	LINR	-50.394	91.4049		0.0110	1.000	0.99	20	
Acenaphthene	3	0.0234	0.0236	0.0235	0.0239	0.0233	0.0231	0.0226	LINR	-178.43	44.2064		0.0233	1.000	0.99	20	
Fluorene	3	0.1279	0.1273	0.1274	0.1284	0.1265	0.1243	0.1225	LINR	-32.341	8.16717		0.1263	1.000	0.99	20	
Phenanthrene	3	0.1354	0.1366	0.1364	0.1377	0.1361	0.1356	0.1354	LINR	-3.3588	7.38874		0.1362	1.000	0.99	20	
Anthracene	3	0.4199	0.4224	0.4266	0.4322	0.4290	0.4269	0.4268	LINR	-1.7330	2.34358		0.4263	1.000	0.99	20	
Fluoranthene	3	0.0382	0.0384	0.0386	0.0392	0.0388	0.0387	0.0387	LINR	-1.5194	25.8283		0.0387	1.000	0.99	20	
Pyrene	3	0.1308	0.1311	0.1332	0.1355	0.1333	0.1340	0.1343	LINR	1.83815	7.44901		0.1332	1.000	0.99	20	

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Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Benzo(a)anthracene	3	0.1489	0.1515	0.1523	0.1536	0.1520	0.1512	0.1508	LINR	-3.9150	6.63150		0.1515	1.000	0.99	20	
Chrysene	3	0.1787	0.1811	0.1815	0.1828	0.1806	0.1793	0.1780	LINR	-7.8225	5.62009		0.1803	1.000	0.99	20	
Benzo(b)fluoranthene	3	0.0628	0.0642	0.0647	0.0654	0.0646	0.0644	0.0641	LINR	-9.1941	15.6059		0.0643	1.000	0.99	20	
Benzo(k)fluoranthene	3	0.3857	0.3920	0.3949	0.3978	0.3926	0.3879	0.3820	LINR	-13.766	2.61710		0.3904	1.000	0.99	20	
Benzo(a)pyrene	3	0.2089	0.2127	0.2141	0.2165	0.2143	0.2129	0.2128	LINR	-3.0160	4.70028		0.2132	1.000	0.99	20	
Dibenz(a,h)anthracene	3	0.0303	0.0301	0.0308	0.0318	0.0315	0.0316	0.0317	LINR	9.18553	31.5065		0.0311	1.000	0.99	20	
Benzo(g,h,i)perylene	3	0.0608	0.0590	0.0602	0.0618	0.0617	0.0624	0.0631	LINR	24.3223	15.8303		0.0613	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	3	0.0962	0.0968	0.0965	0.0983	0.0975	0.0975	0.0971	LINR	-1.8455	10.2902		0.0971	1.000	0.99	20	
1-Methylnaphthalene (F)	3	0.0122	0.0123	0.0123	0.0124	0.0122	0.0120	0.0118	LINR	-661.87	84.7083		0.0122	1.000	0.99	20	

Instrument amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

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Calibration Table

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NEW ICAL FOLLOWING REPLACEMENT OF UV LAMP. JM 22MAY2006

HPLC04 METHOD 8310

Calib. Data Modified : 5/22/2006 4:16:03 PM

Calculate : External Standard
Based on : Peak Area

Rel. Reference Window : 1.000 %
Abs. Reference Window : 0.200 min
Rel. Non-ref. Window : 1.000 %
Abs. Non-ref. Window : 0.250 min
Do not use Multiplier & Dilution Factor with ISTDs
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Signal 1: DAD1 A, Sig=254,4 Ref=480,80
Signal 2: DAD1 B, Sig=305,4 Ref=480,80
Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
4.752	1	1	500.00000	6.35383	78.69275			Naphthalene
		2	1000.00000	13.15704	76.00496			
		3	2500.00000	32.77972	76.26668			
		4	5000.00000	66.00784	75.74857			
		5	1.00000e4	130.71696	76.50116			
		6	2.50000e4	323.77454	77.21423			
		7	5.00000e4	646.40033	77.35145			
4.790	3	1	500.00000	5.48376	91.17835			Naphthalene
		2	1000.00000	11.08296	90.22864			
		3	2500.00000	27.68407	90.30465			
		4	5000.00000	55.85367	89.51963			
		5	1.00000e4	110.44406	90.54357			
		6	2.50000e4	274.47531	91.08287			
		7	5.00000e4	547.22638	91.36986			
6.004	1	1	1000.00000	9.18307	108.89603			Acenaphthylene
		2	2000.00000	18.68859	107.01715			
		3	5000.00000	46.93712	106.52549			
		4	1.00000e4	94.78723	105.49944			
		5	2.00000e4	187.08742	106.90190			
		6	5.00000e4	462.20984	108.17598			
		7	1.00000e5	910.50854	109.82873			
6.005	2	1	1000.00000	27.65381	36.16138			Acenaphthylene
		2	2000.00000	56.04304	35.68686			
		3	5000.00000	140.16672	35.67181			

Method G:\HPLC4\METHODS\8310-138.M

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		4	1.00000e4	282.77841	35.36338			
		5	2.00000e4	559.61334	35.73896			
		6	5.00000e4	1390.57104	35.95645			
		7	1.00000e5	2775.66528	36.02740			
6.773	1	1	2000.00000	17.19066	116.34227			1-Methylnaphthalene (UV)
		2	4000.00000	34.41462	116.22969			
		3	1.00000e4	85.94093	116.35899			
		4	2.00000e4	173.09207	115.54544			
		5	4.00000e4	340.84924	117.35394			
		6	1.00000e5	839.48529	119.12061			
		7	2.00000e5	1676.38977	119.30400			
6.774	2	1	2000.00000	6.06443	329.79188			1-Methylnaphthalene (UV)
		2	4000.00000	12.31411	324.83055			
		3	1.00000e4	30.67977	325.94769			
		4	2.00000e4	61.92251	322.98433			
		5	4.00000e4	122.83121	325.65012			
		6	1.00000e5	304.35931	328.55903			
		7	2.00000e5	604.82648	330.67335			
6.811	3	1	2000.00000	24.40978	81.93437			1-Methylnaphthalene (F)
		2	4000.00000	49.21495	81.27612			
		3	1.00000e4	122.94567	81.33674			
		4	2.00000e4	247.30377	80.87220			
		5	4.00000e4	488.69351	81.85089			
		6	1.00000e5	1199.20923	83.38828			
		7	2.00000e5	2361.67969	84.68549			
7.233	1	1	500.00000	5.96680	83.79698			2-Methylnaphthalene
		2	1000.00000	11.99022	83.40130			
		3	2500.00000	29.85911	83.72654			
		4	5000.00000	60.88431	82.12296			
		5	1.00000e4	120.14920	83.22985			
		6	2.50000e4	297.53644	84.02332			
7.269	3	1	500.00000	7.74911	64.52351			2-Methylnaphthalene
		2	1000.00000	15.52372	64.41757			
		3	2500.00000	38.81281	64.41172			
		4	5000.00000	78.28068	63.87272			
		5	1.00000e4	154.78474	64.60585			
		6	2.50000e4	382.29327	65.39482			
7.613	1	1	500.00000	2.59693	192.53514			Acenaphthene
		2	1000.00000	5.17957	193.06637			
		3	2500.00000	13.08239	191.09658			
		4	5000.00000	26.89059	185.93866			
		5	1.00000e4	53.03941	188.53907			
		6	2.50000e4	131.16444	190.60043			
		7	5.00000e4	254.87729	196.17283			
7.651	3	1	500.00000	11.70526	42.71583			Acenaphthene
		2	1000.00000	23.56936	42.42797			
		3	2500.00000	58.84945	42.48128			
		4	5000.00000	119.32713	41.90162			
		5	1.00000e4	233.17419	42.88639			
		6	2.50000e4	577.51837	43.28867			
		7	5.00000e4	1130.49866	44.22827			
8.138	1	1	100.00000	6.27447	15.93759			Fluorene
		2	200.00000	12.48572	16.01830			
		3	500.00000	31.10701	16.07355			
		4	1000.00000	63.54686	15.73642			
		5	2000.00000	125.67238	15.91440			
		6	5000.00000	313.25665	15.96135			
		7	1.00000e4	624.78467	16.00551			
8.176	3	1	100.00000	12.79477	7.81570			Fluorene
		2	200.00000	25.46982	7.85243			
		3	500.00000	63.67719	7.85210			
		4	1000.00000	128.43744	7.78589			
		5	2000.00000	252.91112	7.90792			

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		6	5000.00000	621.43634	8.04588			
		7	1.00000e4	1224.89038	8.16400			
9.260	1	1	50.00000	8.85156	5.64872			Phenanthrene
		2	100.00000	17.94612	5.57224			
		3	250.00000	45.25932	5.52372			
		4	500.00000	91.37579	5.47191			
		5	1000.00000	180.36794	5.54422			
		6	2500.00000	448.64795	5.57230			
		7	5000.00000	897.85052	5.56886			
9.297	3	1	50.00000	6.77231	7.38301			Phenanthrene
		2	100.00000	13.66179	7.31969			
		3	250.00000	34.08815	7.33393			
		4	500.00000	68.83022	7.26425			
		5	1000.00000	136.09827	7.34763			
		6	2500.00000	338.96707	7.37535			
		7	5000.00000	676.96960	7.38586			
10.285	1	1	50.00000	20.75930	2.40856			Anthracene
		2	100.00000	42.52945	2.35131			
		3	250.00000	106.41690	2.34925			
		4	500.00000	215.48436	2.32035			
		5	1000.00000	428.09290	2.33594			
		6	2500.00000	1062.12512	2.35377			
		7	5000.00000	2115.98950	2.36296			
10.323	3	1	50.00000	20.99740	2.38125			Anthracene
		2	100.00000	42.23863	2.36750			
		3	250.00000	106.64105	2.34431			
		4	500.00000	216.08749	2.31388			
		5	1000.00000	428.97952	2.33111			
		6	2500.00000	1067.30798	2.34234			
		7	5000.00000	2133.87500	2.34316			
11.435	1	1	100.00000	4.12269	24.25600			Fluoranthene
		2	200.00000	8.21146	24.35620			
		3	500.00000	20.48045	24.41353			
		4	1000.00000	41.23911	24.24883			
		5	2000.00000	81.15630	24.64380			
		6	5000.00000	203.07642	24.62127			
		7	1.00000e4	406.56757	24.59616			
11.472	3	1	100.00000	3.82083	26.17234			Fluoranthene
		2	200.00000	7.68846	26.01302			
		3	500.00000	19.30645	25.89808			
		4	1000.00000	39.23374	25.48827			
		5	2000.00000	77.62599	25.76457			
		6	5000.00000	193.25951	25.87195			
		7	1.00000e4	387.35989	25.81579			
12.208	1	1	50.00000	1.83995	27.17468			Pyrene
		2	100.00000	3.43952	29.07386			
		3	250.00000	8.33079	30.00916			
		4	500.00000	17.14116	29.16955			
		5	1000.00000	33.56740	29.79081			
		6	2500.00000	83.91055	29.79363			
		7	5000.00000	168.92415	29.59908			
12.245	3	1	50.00000	6.53807	7.64751			Pyrene
		2	100.00000	13.11404	7.62541			
		3	250.00000	33.29245	7.50921			
		4	500.00000	67.75372	7.37967			
		5	1000.00000	133.33412	7.49996			
		6	2500.00000	334.87701	7.46543			
		7	5000.00000	671.27612	7.44850			
15.039	1	1	50.00000	4.49803	11.11598			Benzo(a)anthracene
		2	100.00000	9.67921	10.33142			
		3	250.00000	23.48936	10.64311			
		4	500.00000	47.78680	10.46314			
		5	1000.00000	94.79131	10.54949			

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		6	2500.00000	236.18423	10.58496			
		7	5000.00000	474.20624	10.54394			
15.077	3	1	50.00000	7.44724	6.71390			Benzo(a)anthracene
		2	100.00000	15.15430	6.59879			
		3	250.00000	38.07673	6.56569			
		4	500.00000	76.80959	6.50960			
		5	1000.00000	151.99316	6.57924			
		6	2500.00000	377.89438	6.61561			
		7	5000.00000	754.23340	6.62925			
15.539	1	1	50.00000	6.35061	7.87325			Chrysene
		2	100.00000	13.59609	7.35506			
		3	250.00000	33.59677	7.44119			
		4	500.00000	67.79062	7.37565			
		5	1000.00000	134.58353	7.43033			
		6	2500.00000	334.09467	7.48291			
		7	5000.00000	667.30255	7.49285			
15.577	3	1	50.00000	8.93709	5.59467			Chrysene
		2	100.00000	18.11283	5.52095			
		3	250.00000	45.37164	5.51005			
		4	500.00000	91.38473	5.47137			
		5	1000.00000	180.56219	5.53826			
		6	2500.00000	448.13257	5.57871			
		7	5000.00000	889.81403	5.61915			
17.772	1	1	100.00000	10.36747	9.64555			Benzo(b)fluoranthene
		2	200.00000	20.85804	9.58863			
		3	500.00000	53.17228	9.40340			
		4	1000.00000	107.52938	9.29978			
		5	2000.00000	213.44913	9.36991			
		6	5000.00000	532.37317	9.39191			
		7	1.00000e4	1062.87402	9.40845			
17.810	3	1	100.00000	6.27574	15.93439			Benzo(b)fluoranthene
		2	200.00000	12.83850	15.57814			
		3	500.00000	32.34958	15.45615			
		4	1000.00000	65.39377	15.29198			
		5	2000.00000	129.20119	15.47973			
		6	5000.00000	322.01157	15.52739			
		7	1.00000e4	640.72485	15.60732			
18.726	1	1	50.00000	3.94109	12.68686			Benzo(k)fluoranthene
		2	100.00000	7.89588	12.66483			
		3	250.00000	20.57043	12.15337			
		4	500.00000	41.83699	11.95115			
		5	1000.00000	83.72203	11.94429			
		6	2500.00000	208.88004	11.96859			
		7	5000.00000	417.35922	11.98009			
18.764	3	1	50.00000	19.28471	2.59273			Benzo(k)fluoranthene
		2	100.00000	39.20409	2.55075			
		3	250.00000	98.73430	2.53205			
		4	500.00000	198.87831	2.51410			
		5	1000.00000	392.59399	2.54716			
		6	2500.00000	969.84100	2.57774			
		7	5000.00000	1910.04431	2.61774			
19.676	1	1	50.00000	4.38903	11.39205			Benzo(a)pyrene
		2	100.00000	8.22974	12.15105			
		3	250.00000	21.51167	11.62160			
		4	500.00000	44.20454	11.31105			
		5	1000.00000	87.60189	11.41528			
		6	2500.00000	220.13969	11.35643			
		7	5000.00000	442.77490	11.29242			
19.714	3	1	50.00000	10.44253	4.78811			Benzo(a)pyrene
		2	100.00000	21.26584	4.70238			
		3	250.00000	53.53555	4.66979			
		4	500.00000	108.22565	4.61998			
		5	1000.00000	214.33957	4.66549			

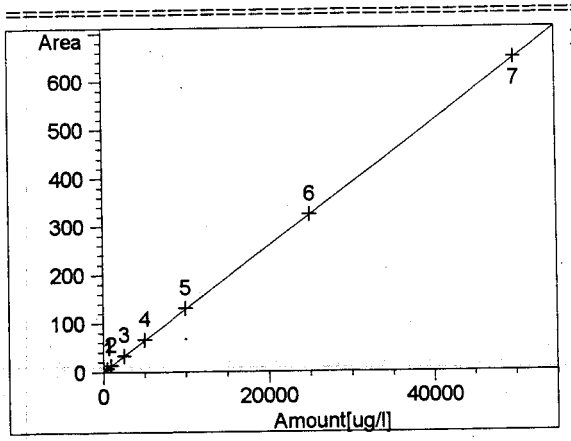
Method G:\HPLC4\METHODS\8310-138.M

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		6	2500.00000	532.33307	4.69631			
		7	5000.00000	1064.23083	4.69823			
21.294	1	1	100.00000	1.86005	53.76185			Dibenz(a,h)anthracene
		2	200.00000	4.03761	49.53425			
		3	500.00000	10.67297	46.84733			
		4	1000.00000	21.81421	45.84168			
		5	2000.00000	44.01789	45.43607			
		6	5000.00000	110.60422	45.20623			
		7	1.00000e4	222.97006	44.84907			
21.332	3	1	100.00000	3.03149	32.98710			Dibenz(a,h)anthracene
		2	200.00000	6.02086	33.21784			
		3	500.00000	15.37518	32.51994			
		4	1000.00000	31.83378	31.41317			
		5	2000.00000	63.06483	31.71339			
		6	5000.00000	158.06801	31.63195			
		7	1.00000e4	317.26797	31.51910			
22.074	1	1	100.00000	3.17288	31.51711			Benzo(g,h,i)perylene
		2	200.00000	6.79410	29.43731			
		3	500.00000	17.66954	28.29729			
		4	1000.00000	35.90152	27.85397			
		5	2000.00000	71.56614	27.94618			
		6	5000.00000	181.34886	27.57117			
		7	1.00000e4	367.56784	27.20586			
22.111	3	1	100.00000	6.08162	16.44298			Benzo(g,h,i)perylene
		2	200.00000	11.79889	16.95075			
		3	500.00000	30.11854	16.60107			
		4	1000.00000	61.84187	16.17027			
		5	2000.00000	123.34122	16.21518			
		6	5000.00000	312.19437	16.01566			
		7	1.00000e4	631.46387	15.83622			
22.588	1	1	50.00000	4.39845	11.36763			Indeno(1,2,3-cd)pyrene
		2	100.00000	9.64680	10.36613			
		3	250.00000	24.43922	10.22946			
		4	500.00000	50.25140	9.94997			
		5	1000.00000	99.94793	10.00521			
		6	2500.00000	250.73134	9.97083			
		7	5000.00000	502.34595	9.95330			
22.626	3	1	50.00000	4.81022	10.39454			Indeno(1,2,3-cd)pyrene
		2	100.00000	9.68046	10.33008			
		3	250.00000	24.11350	10.36764			
		4	500.00000	49.15816	10.17125			
		5	1000.00000	97.53080	10.25317			
		6	2500.00000	243.71762	10.25777			
		7	5000.00000	485.73682	10.29364			

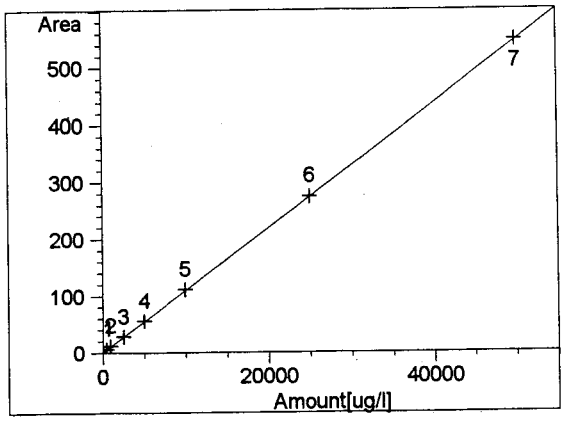
Peak Sum Table

No Entries in table

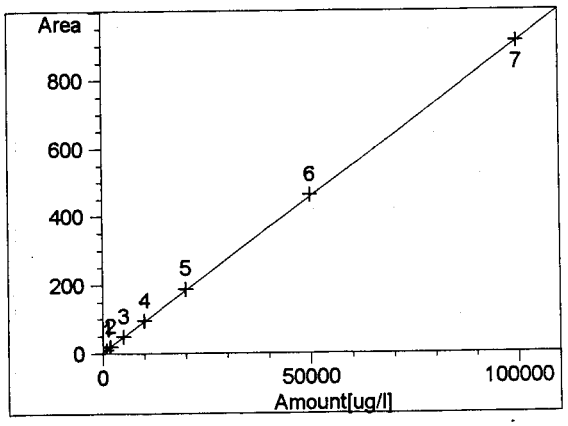
Calibration Curves



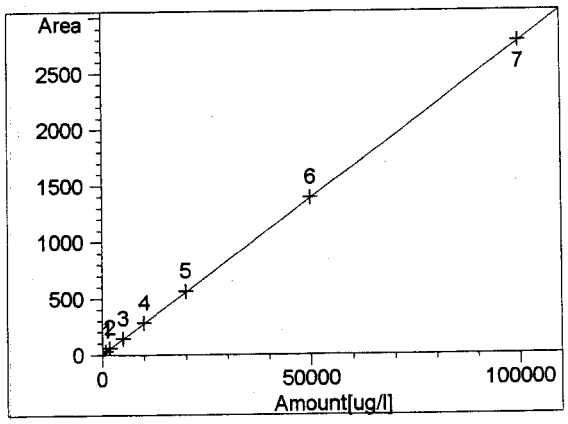
Naphthalene at exp. RT: 4.752
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.65900
Formula: y = mx + b
m: 1.29199e-2
b: 6.74777e-1
x: Amount[ug/l]
y: Area



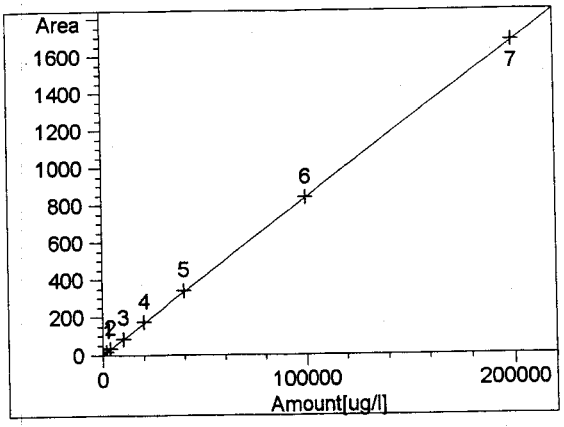
Naphthalene at exp. RT: 4.790
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.52793
Formula: y = mx + b
m: 1.09403e-2
b: 5.51329e-1
x: Amount[ug/l]
y: Area



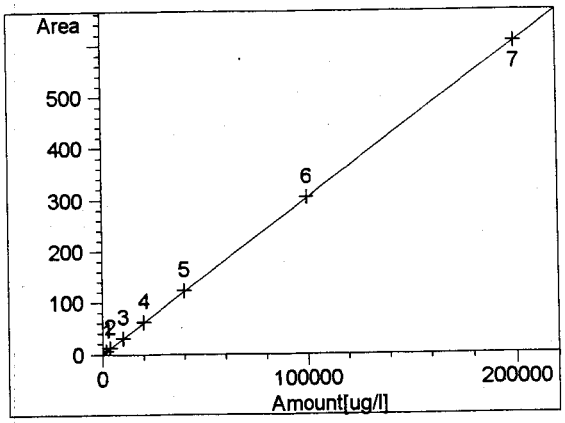
Acenaphthylene at exp. RT: 6.004
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 2.99661
Formula: y = mx + b
m: 9.10747e-3
b: 2.45677
x: Amount[ug/l]
y: Area



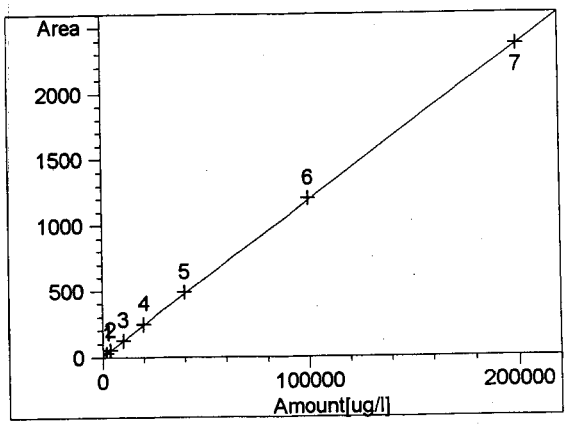
Acenaphthylene at exp. RT: 6.005
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 2.31582
Formula: y = mx + b
m: 2.77446e-2
b: 2.35731
x: Amount[ug/l]
y: Area



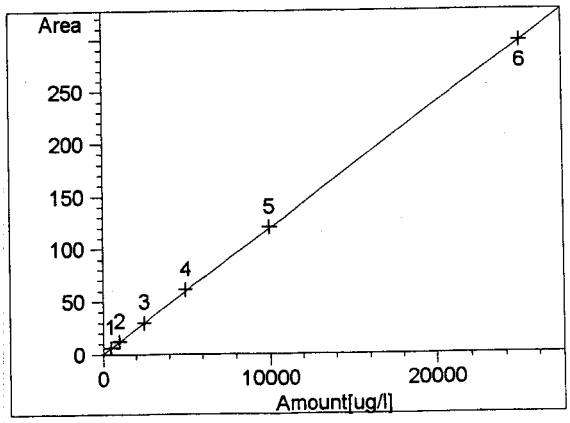
1-Methylnaphthalene (UV) at exp. RT: 6.773
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 2.38438
Formula: y = mx + b
m: 8.37069e-3
b: 2.85473
x: Amount[ug/l]
y: Area



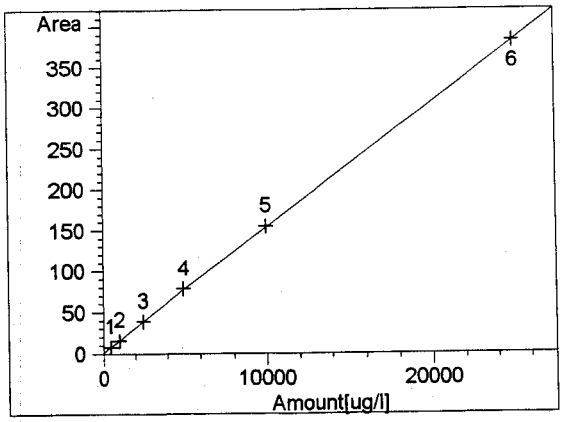
1-Methylnaphthalene (UV) at exp. RT: 6.774
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.95514
Formula: y = mx + b
m: 3.02367e-3
b: 8.71326e-1
x: Amount[ug/l]
y: Area



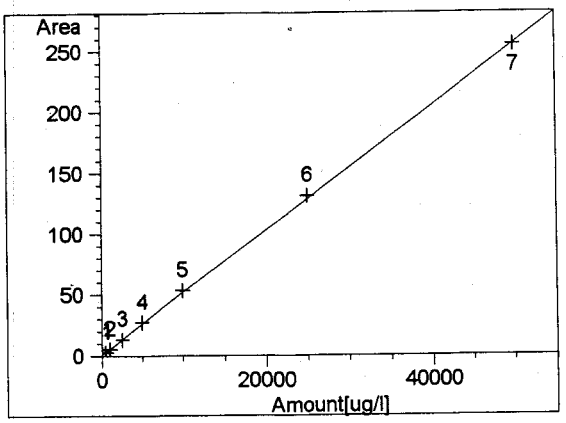
1-Methylnaphthalene (F) at exp. RT: 6.811
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 8.34271
Formula: y = mx + b
m: 1.18052e-2
b: 7.81357
x: Amount[ug/l]
y: Area



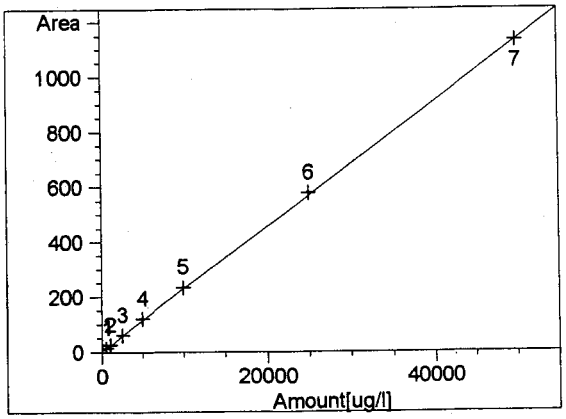
2-Methylnaphthalene at exp. RT: 7.233
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.70066
Formula: y = mx + b
m: 1.18983e-2
b: 4.76749e-1
x: Amount[ug/l]
y: Area



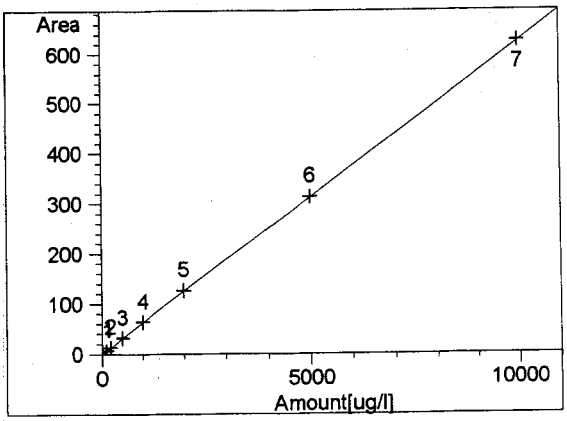
2-Methylnaphthalene at exp. RT: 7.269
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99998
Residual Std. Dev.: 0.95275
Formula: y = mx + b
m: 1.52819e-2
b: 8.39982e-1
x: Amount[ug/l]
y: Area



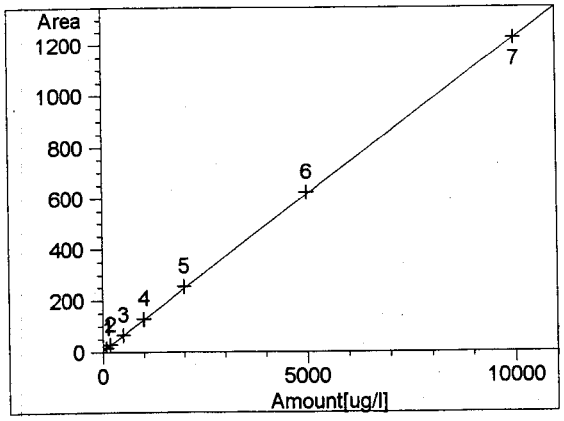
Acenaphthene at exp. RT: 7.613
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99989
Residual Std. Dev.: 1.52771
Formula: y = mx + b
m: 5.10700e-3
b: 9.67465e-1
x: Amount[ug/l]
y: Area



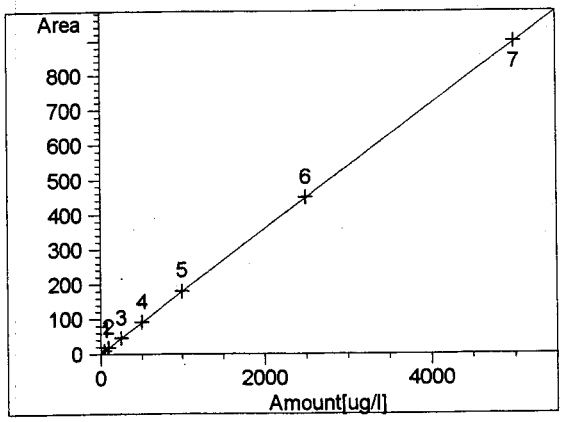
Acenaphthene at exp. RT: 7.651
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99994
Residual Std. Dev.: 4.97058
Formula: y = mx + b
m: 2.26212e-2
b: 4.03630
x: Amount[ug/l]
y: Area



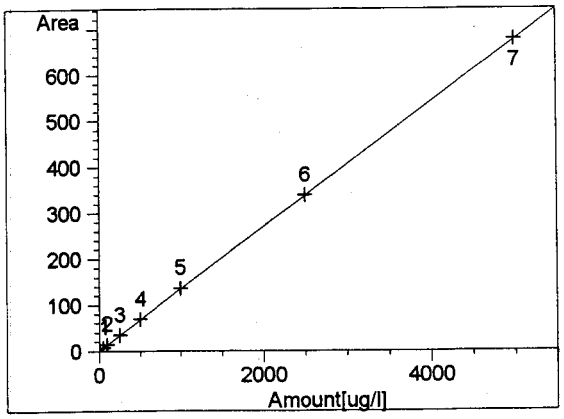
Fluorene at exp. RT: 8.138
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.54815
Formula: y = mx + b
m: 6.24779e-2
b: 3.63360e-1
x: Amount[ug/l]
y: Area



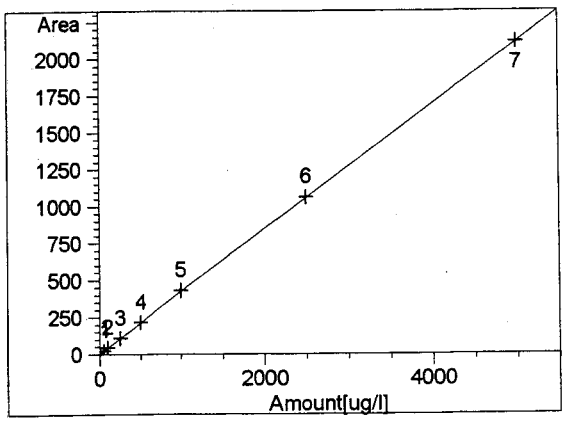
Fluorene at exp. RT: 8.176
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99997
Residual Std. Dev.: 4.08298
Formula: y = mx + b
m: 1.22441e-1
b: 3.95988
x: Amount[ug/l]
y: Area



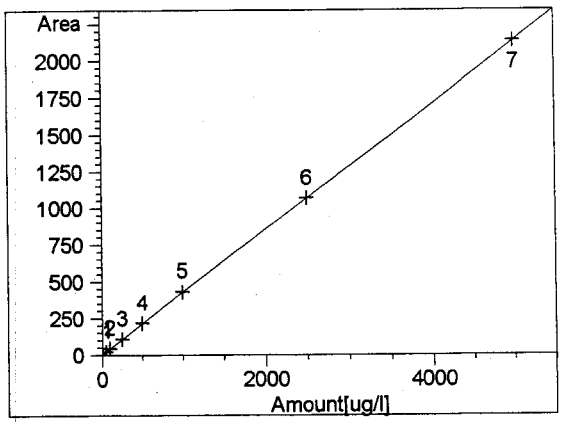
Phenanthrene at exp. RT: 9.260
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.68975
Formula: y = mx + b
m: 1.79462e-1
b: 4.79584e-1
x: Amount[ug/l]
y: Area



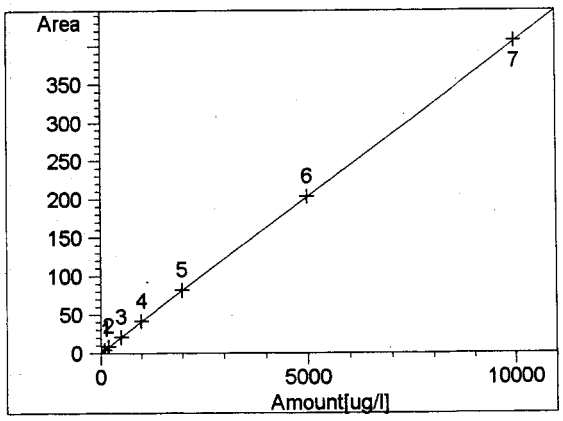
Phenanthrene at exp. RT: 9.297
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.44720
Formula: y = mx + b
m: 1.35341e-1
b: 4.54582e-1
x: Amount[ug/l]
y: Area



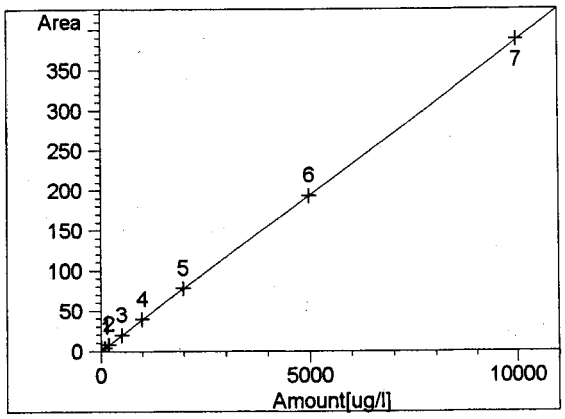
Anthracene at exp. RT: 10.285
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 2.50095
Formula: y = mx + b
m: 4.23168e-1
b: 1.94511
x: Amount[ug/l]
y: Area



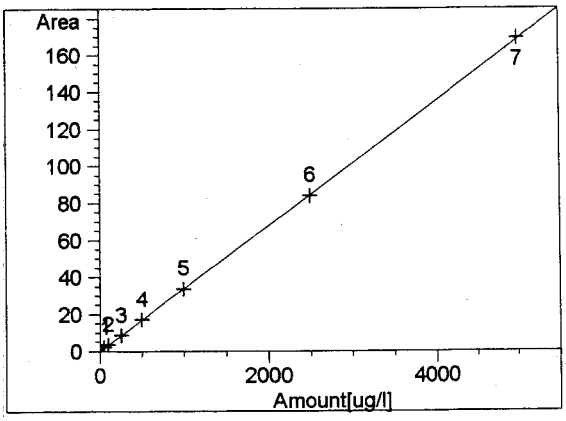
Anthracene at exp. RT: 10.323
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 1.38985
Formula: y = mx + b
m: 4.26697e-1
b: 7.39476e-1
x: Amount[ug/l]
y: Area



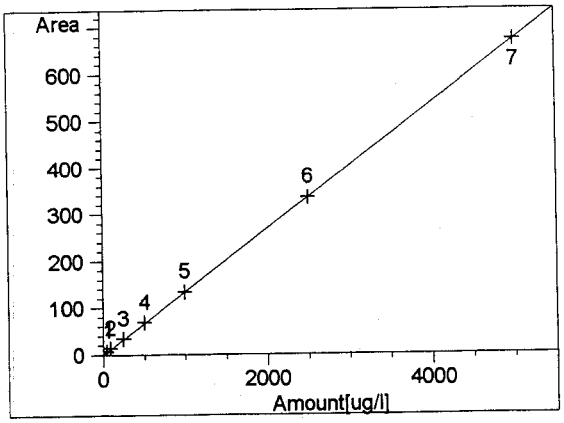
Fluoranthene at exp. RT: 11.435
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.26501
Formula: y = mx + b
m: 4.06313e-2
b: 1.40829e-1
x: Amount[ug/l]
y: Area



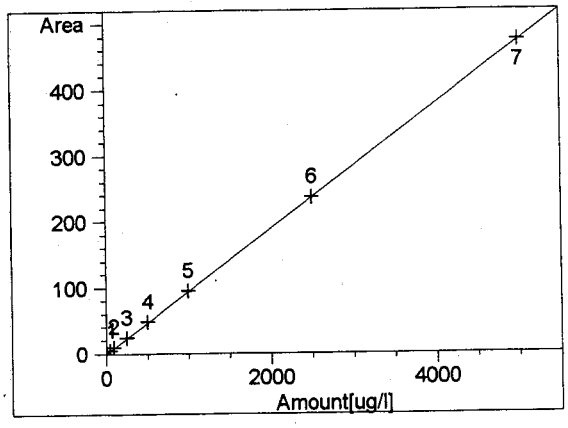
Fluoranthene at exp. RT: 11.472
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.29311
Formula: y = mx + b
m: 3.87172e-2
b: 5.88250e-2
x: Amount[ug/l]
y: Area



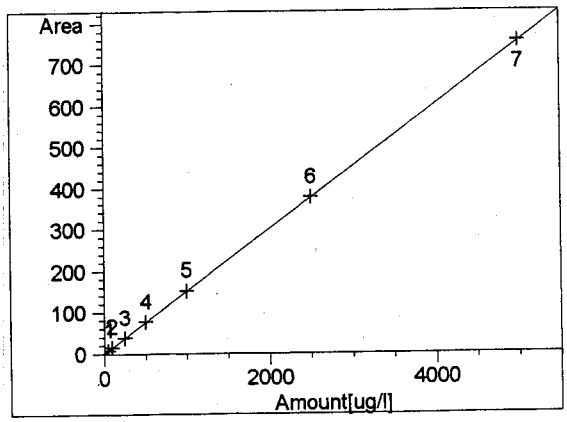
Pyrene at exp. RT: 12.208
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.27756
Formula: y = mx + b
m: 3.37388e-2
b: 1.22142e-3
x: Amount[ug/l]
y: Area



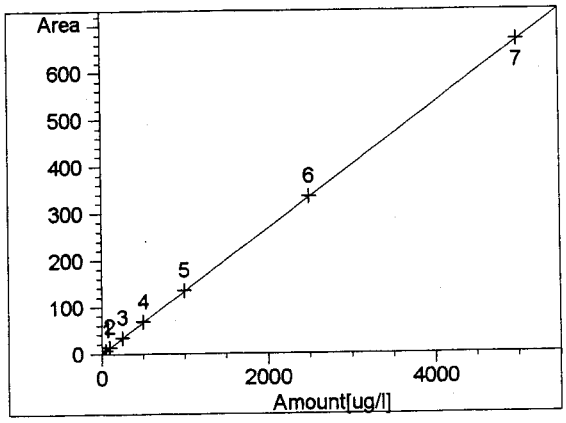
Pyrene at exp. RT: 12.245
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.55665
Formula: y = mx + b
m: 1.34246e-1
b: -2.46762e-1
x: Amount[ug/l]
y: Area



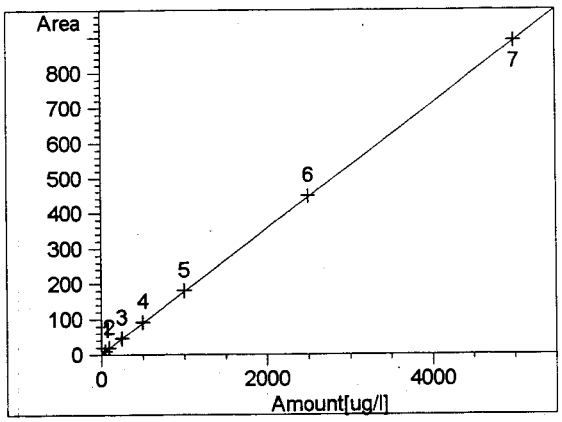
Benzo(a)anthracene at exp. RT: 15.039
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.43917
Formula: y = mx + b
m: 9.47891e-2
b: -5.46320e-2
x: Amount[ug/l]
y: Area



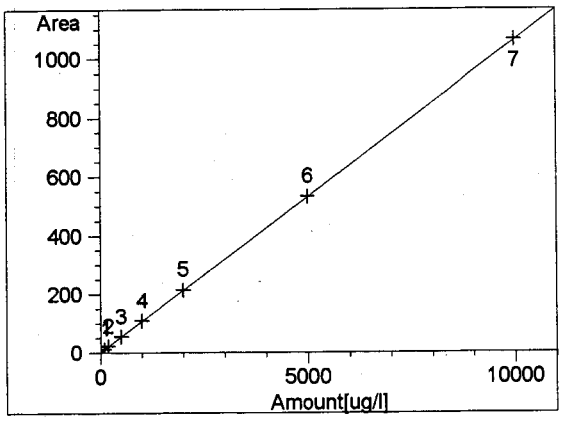
Benzo(a)anthracene at exp. RT: 15.077
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.63754
Formula: y = mx + b
m: 1.50795e-1
b: 5.90358e-1
x: Amount[ug/l]
y: Area



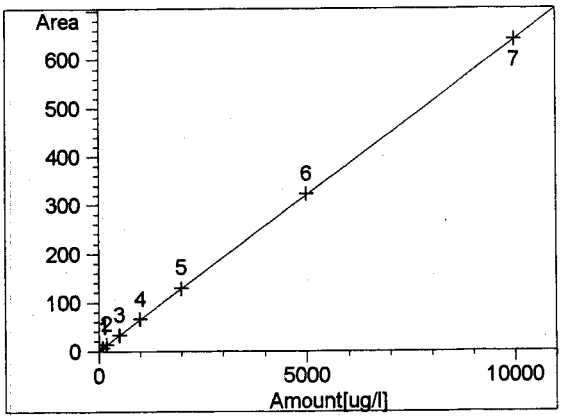
Chrysene at exp. RT: 15.539
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.57474
Formula: y = mx + b
m: 1.33415e-1
b: 4.59439e-1
x: Amount[ug/l]
y: Area



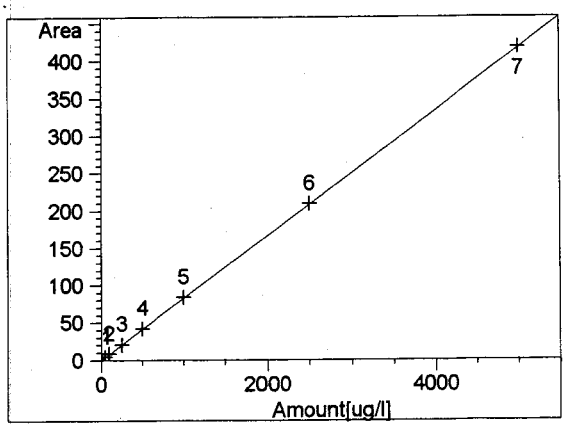
Chrysene at exp. RT: 15.577
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.48324
Formula: y = mx + b
m: 1.77933e-1
b: 1.39188
x: Amount[ug/l]
y: Area



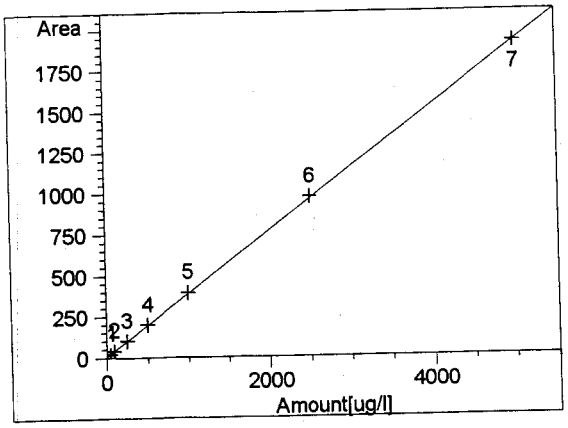
Benzo(b)fluoranthene at exp. RT: 17.772
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.71561
Formula: y = mx + b
m: 1.06301e-1
b: 3.09438e-1
x: Amount[ug/l]
y: Area



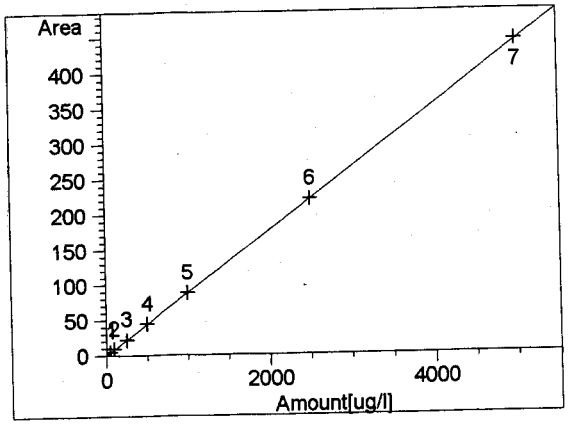
Benzo(b)fluoranthene at exp. RT: 17.810
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.79187
Formula: y = mx + b
m: 6.40783e-2
b: 5.89141e-1
x: Amount[ug/l]
y: Area



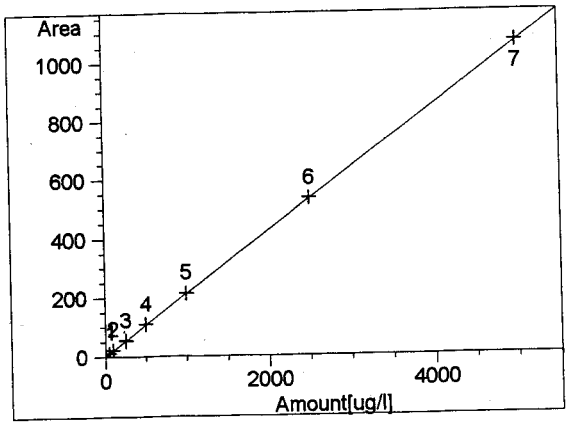
Benzo(k)fluoranthene at exp. RT: 18.726
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.26640
Formula: y = mx + b
m: 8.35344e-2
b: -1.45349e-1
x: Amount[ug/l]
y: Area



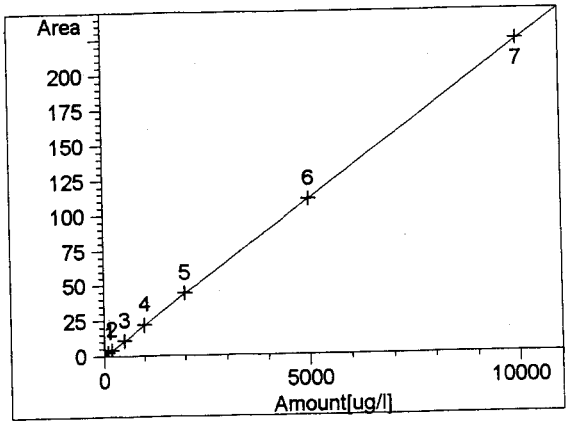
Benzo(k)fluoranthene at exp. RT: 18.764
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99997
Residual Std. Dev.: 6.35516
Formula: y = mx + b
m: 3.82102e-1
b: 5.25986
x: Amount[ug/l]
y: Area



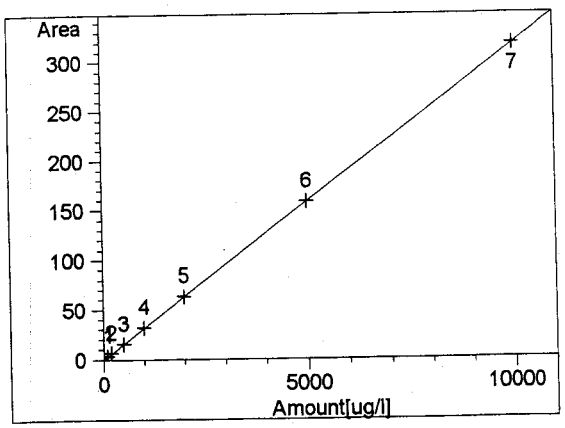
Benzo(a)pyrene at exp. RT: 19.676
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.53487
Formula: y = mx + b
m: 8.85779e-2
b: -5.40129e-1
x: Amount[ug/l]
y: Area



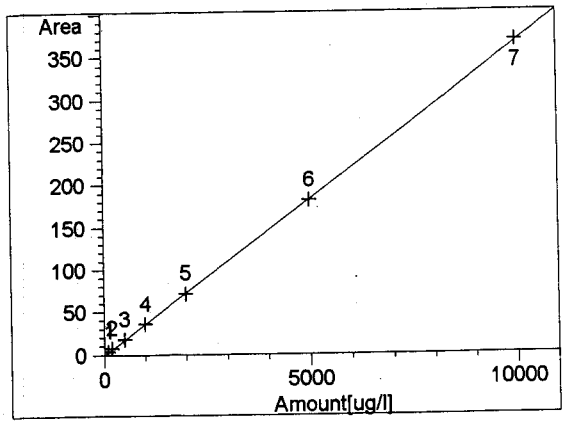
Benzo(a)pyrene at exp. RT: 19.714
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.85195
Formula: y = mx + b
m: 2.12753e-1
b: 6.41655e-1
x: Amount[ug/l]
y: Area



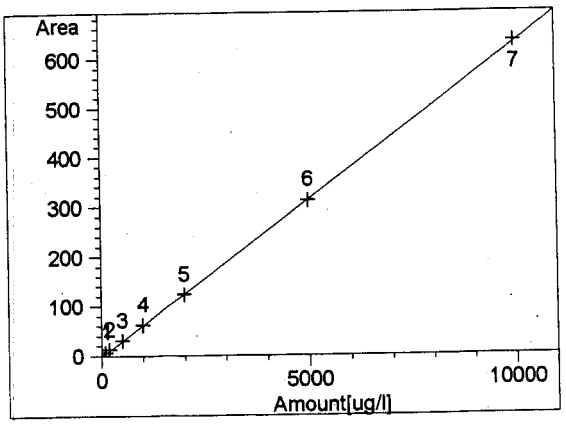
Dibenz(a,h)anthracene at exp. RT: 21.294
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.26499
Formula: y = mx + b
m: 2.23247e-2
b: -5.32610e-1
x: Amount[ug/l]
y: Area



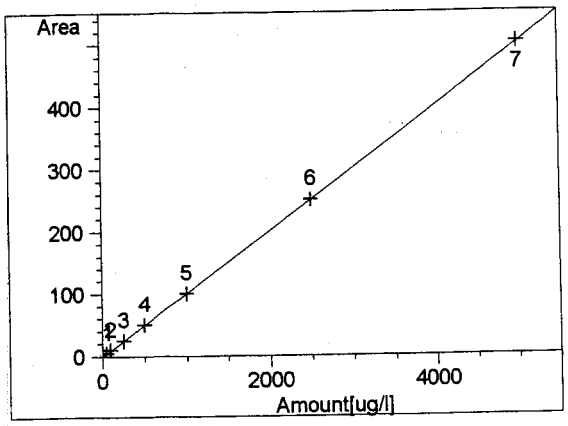
Dibenz(a,h)anthracene at exp. RT: 21.332
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.27198
Formula: y = mx + b
m: 3.17395e-2
b: -2.91544e-1
x: Amount[ug/l]
y: Area



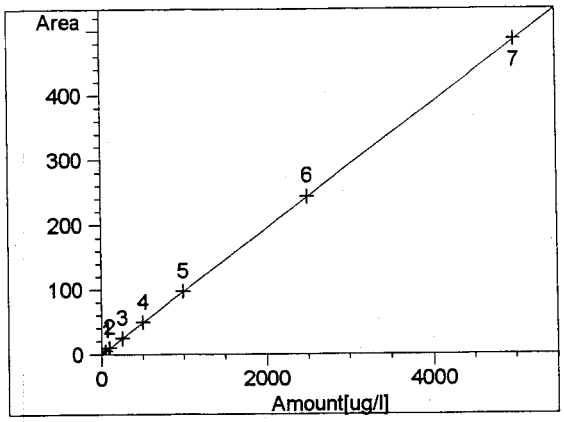
Benzo(g,h,i)perylene at exp. RT: 22.074
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.94681
Formula: y = mx + b
m: 3.67740e-2
b: -1.04727
x: Amount[ug/l]
y: Area



Benzo(g,h,i)perylene at exp. RT: 22.111
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99998
Residual Std. Dev.: 1.45280
Formula: y = mx + b
m: 6.31700e-2
b: -1.53644
x: Amount[ug/l]
y: Area



Indeno(1,2,3-cd)pyrene at exp. RT: 22.588
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.25692
Formula: y = mx + b
m: 1.00554e-1
b: -4.92879e-1
x: Amount[ug/l]
y: Area



Indeno(1,2,3-cd)pyrene at exp. RT: 22.626
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.41791
Formula: y = mx + b
m: 9.71800e-2
b: 1.79343e-1
x: Amount[ug/l]
y: Area

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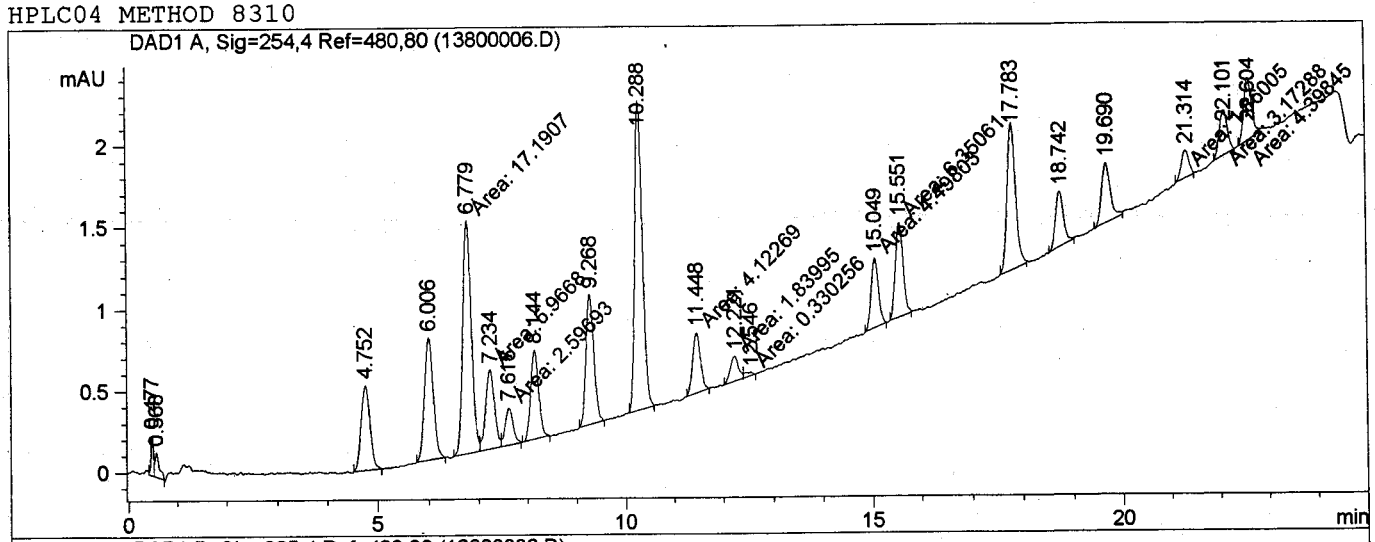
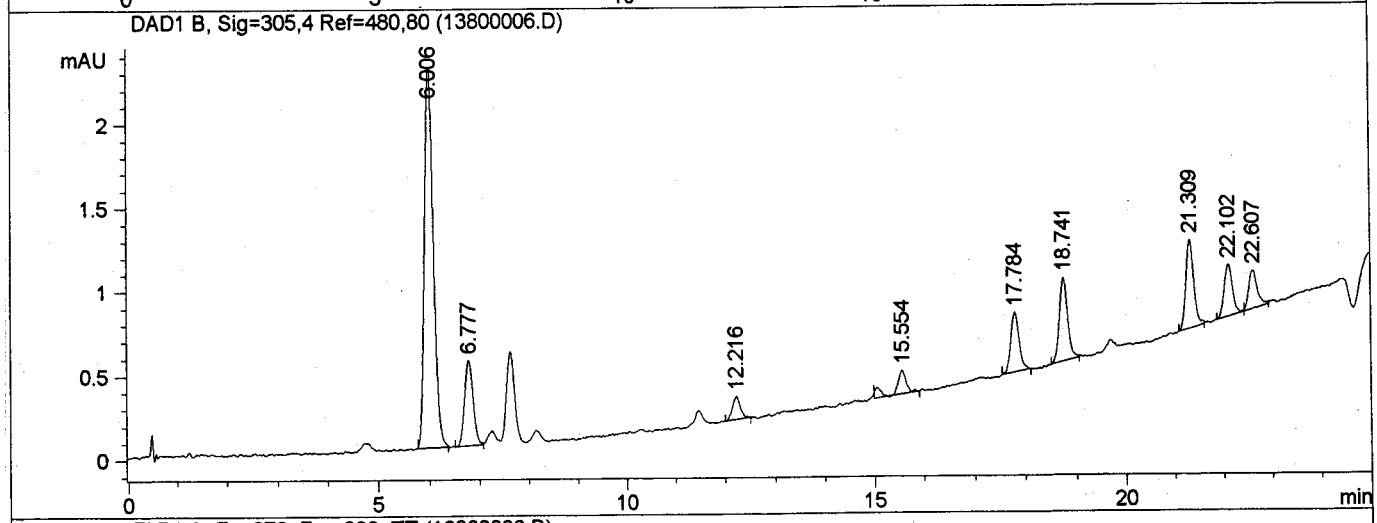
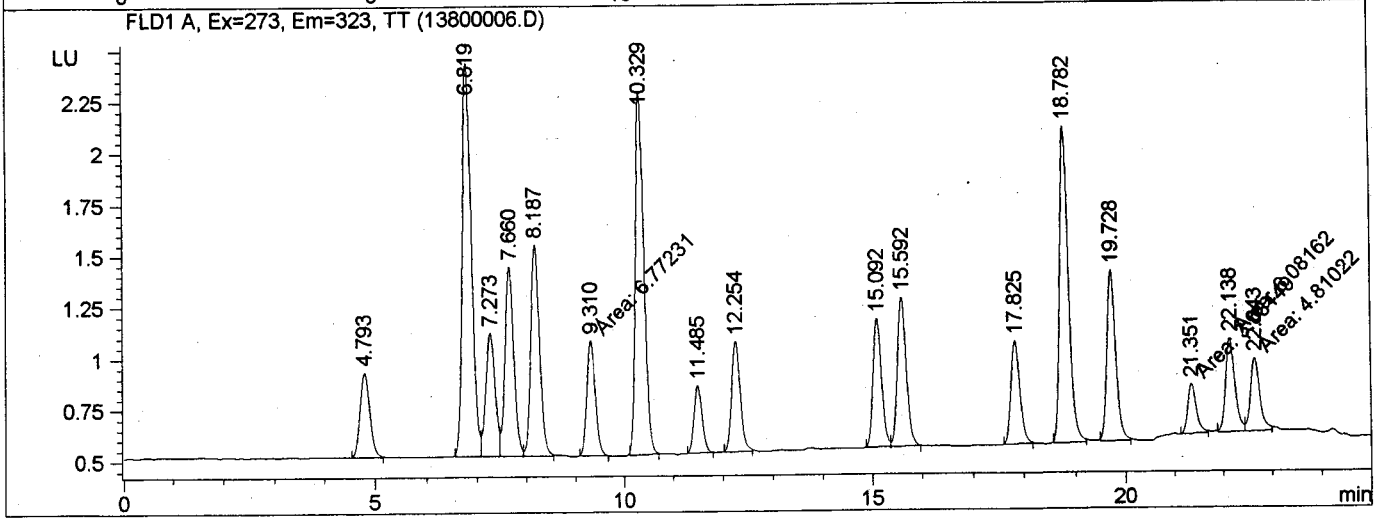
Injection Date	: 5/18/2006 7:52:48 PM	Seq. Line	: 6
Sample Name	: ICAL,S3065	Location	: Vial 6
Acq. Operator	:	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		

HPLC04 METHOD 8310







Jm 22MAY2006

External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.752	BP	6.35383	73.22840	465.28047		Naphthalene
6.006	BB	9.18307	86.07316	790.41598		Acenaphthylene
6.779	MF	17.19066	103.84860	1785.22554		1-Methylnaphthalene (UV)
7.234	MF	5.96680	80.69614	481.49793		2-Methylnaphthalene
7.616	FM	2.59693	167.38480	434.68637		Acenaphthene
8.144	VP	6.27447	15.44981	96.93942		Fluorene
9.268	BP	8.85156	5.43133	48.07574		Phenanthrene
10.288	BB	20.75930	2.30524	47.85517		Anthracene
11.448	MM	4.12269	25.48087	105.04978		Fluoranthene
12.221	MF	1.83995	34.43634	63.36108		Pyrene
15.049	MM	4.49803	12.28219	55.24568		Benzo(a)anthracene
15.551	MM	6.35061	7.91518	50.26628		Chrysene
17.783	BB	10.36747	9.89141	102.54895		Benzo(b)fluoranthene
18.742	PB	3.94109	14.59363	57.51478		Benzo(k)fluoranthene
19.690	PB	4.38903	13.34166	58.55689		Benzo(a)pyrene
21.314	MM	1.86005	61.87980	115.09983		Dibenz(a,h)anthracene
22.101	MM	3.17288	33.45332	106.14337		Benzo(g,h,i)perylene
22.604	MM	4.39845	12.46554	54.82910		Indeno(1,2,3-cd)pyrene

Totals : 4918.59235

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.006	BB	27.65381	36.14769	999.62119		Acenaphthylene
6.777	PV	6.06443	308.61277	1871.56076		1-Methylnaphthalene (UV)

Totals : 2871.18195

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.793	BB	5.48376	68.97480	378.24111		Naphthalene
6.819	BV	24.40978	59.67094	1456.55443		1-Methylnaphthalene (F)
7.273	VV	7.74911	55.20738	427.80829		2-Methylnaphthalene
7.660	VV	11.70526	36.25836	424.41367		Acenaphthene
8.187	VB	12.79477	6.28187	80.37502		Fluorene
9.310	MM	6.77231	5.92673	40.13766		Phenanthrene
10.329	BB	20.99740	2.31053	48.51518		Anthracene
11.485	BB	3.82083	23.80183	90.94271		Fluoranthene
12.254	BB	6.53807	7.19858	47.06487		Pyrene
15.092	BV	7.44724	6.41390	47.76587		Benzo(a)anthracene
15.592	VB	8.93709	4.83163	43.18071		Chrysene

Data File G:\HPLC4\DATA\13800006.D

Sample Name: ICAL,S3065

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.825	BB	6.27574	14.89507	93.47751		Benzo(b)fluoranthene
18.782	BB	19.28471	2.18916	42.21724		Benzo(k)fluoranthene
19.728	BB	10.44253	4.30052	44.90832		Benzo(a)pyrene
21.351	MF	3.03149	36.12993	109.52744		Dibenz(a,h)anthracene
22.138	FM	6.08162	17.06152	103.76167		Benzo(g,h,i)perylene
22.643	MF	4.81022	11.56582	55.63411		Indeno(1,2,3-cd)pyrene
Totals :				3534.52582		

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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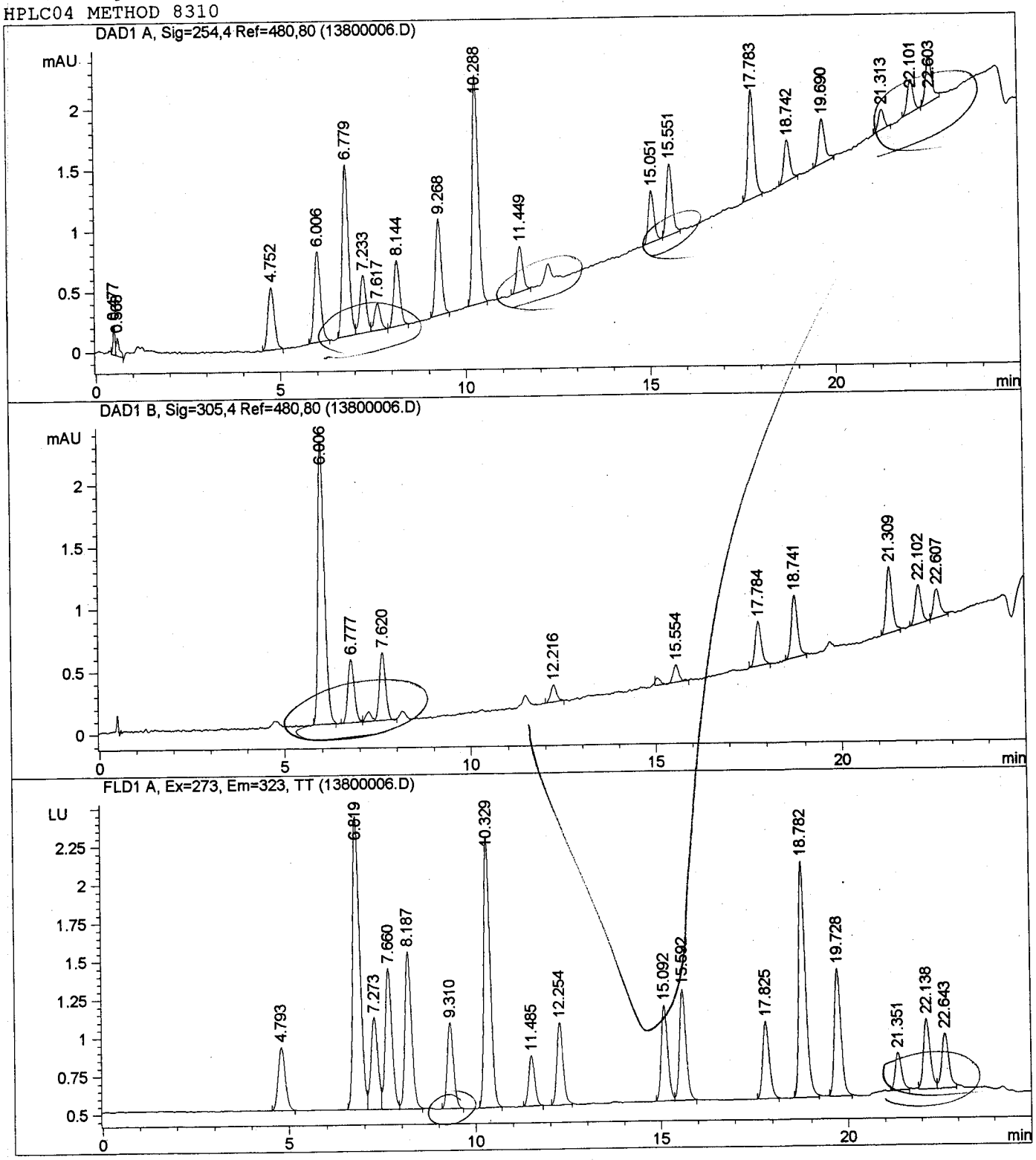
Injection Date : 5/18/2006 7:52:48 PM
Sample Name : ICAL,S3065
Acq. Operator :
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\051806.S
Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL
HPLC04 METHOD 8310

Seq. Line : 6
Location : Vial 6
Inj : 1
Inj Volume : 10 µl



External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.752	BP	6.35383	73.22840	465.28047		Naphthalene
6.006	BB	9.18307	86.07316	790.41598		Acenaphthylene
6.779	BV	16.96911	103.64911	1758.83363		1-Methylnaphthalene (UV)
7.233	VV	5.86789	80.58486	472.86303		2-Methylnaphthalene
7.617	VP	2.58632	167.24952	432.56006		Acenaphthene
8.144	VP	6.27447	15.44981	96.93942		Fluorene
9.268	BP	8.85156	5.43133	48.07574		Phenanthrene
10.288	BB	20.75930	2.30524	47.85517		Anthracene
11.449	BB	4.17647	25.46600	106.35808		Fluoranthene
12.274		-	-	-		Pyrene
15.051	PB	4.66044	12.23445	57.01786		Benzo(a)anthracene
15.551	BB	6.65766	7.89598	52.56868		Chrysene
17.783	BB	10.36747	9.89141	102.54895		Benzo(b)fluoranthene
18.742	PB	3.94109	14.59363	57.51478		Benzo(k)fluoranthene
19.690	PB	4.38903	13.34166	58.55689		Benzo(a)pyrene
21.313	BB	1.89148	61.62125	116.55565		Dibenz(a,h)anthracene
22.101	BB	3.27987	33.27520	109.13825		Benzo(g,h,i)perylene
22.603	BB	4.80412	12.29839	59.08288		Indeno(1,2,3-cd)pyrene

Totals : 4832.16552

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.006	BB	27.65381	36.14769	999.62119		Acenaphthylene
6.777	PV	6.06443	308.61277	1871.56076		1-Methylnaphthalene (UV)

Totals : 2871.18195

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.793	BB	5.48376	68.97480	378.24111		Naphthalene
6.819	BV	24.40978	59.67094	1456.55443		1-Methylnaphthalene (F)
7.273	VV	7.74911	55.20738	427.80829		2-Methylnaphthalene
7.660	VV	11.70526	36.25836	424.41367		Acenaphthene
8.187	VB	12.79477	6.28187	80.37502		Fluorene
9.310	BB	6.73184	5.91894	39.84533		Phenanthrene
10.329	BB	20.99740	2.31053	48.51518		Anthracene
11.485	BB	3.82083	23.80183	90.94271		Fluoranthene
12.254	BB	6.53807	7.19858	47.06487		Pyrene
15.092	BV	7.44724	6.41390	47.76587		Benzo(a)anthracene
15.592	VB	8.93709	4.83163	43.18071		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.825	BB	6.27574	14.89507	93.47751		Benzo(b)fluoranthene
18.782	BB	19.28471	2.18916	42.21724		Benzo(k)fluoranthene
19.728	BB	10.44253	4.30052	44.90832		Benzo(a)pyrene
21.351	BB	3.01997	36.14844	109.16736		Dibenz(a,h)anthracene
22.138	BV	6.04372	17.07027	103.16802		Benzo(g,h,i)perylene
22.643	VB	4.78746	11.57190	55.40001		Indeno(1,2,3-cd)pyrene

Totals : 3533.04566

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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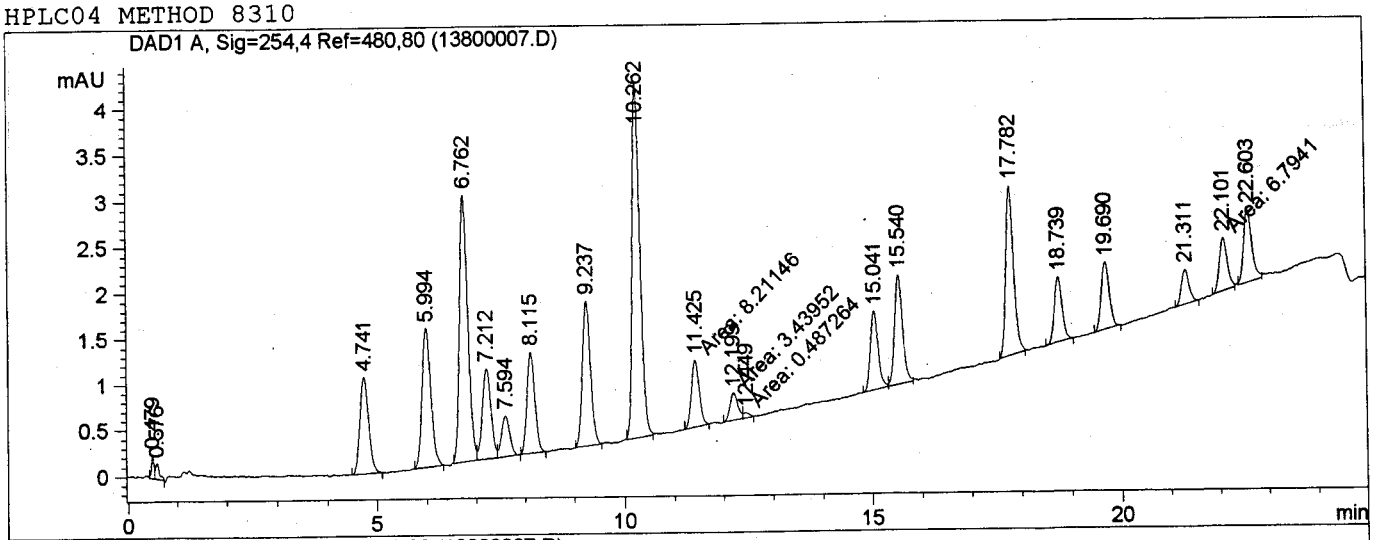
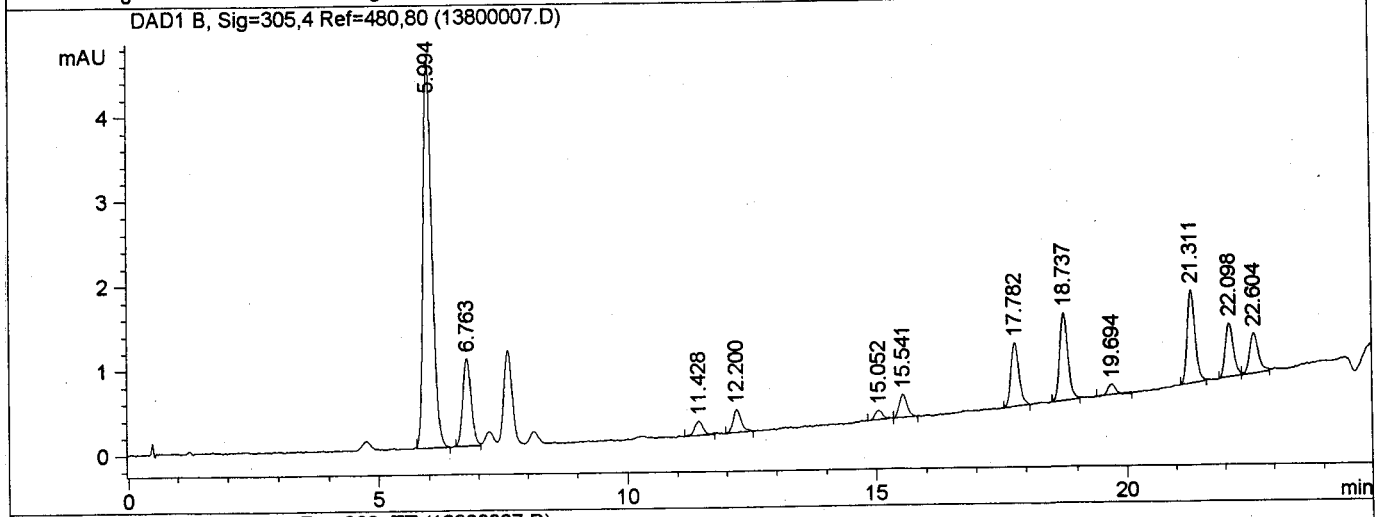
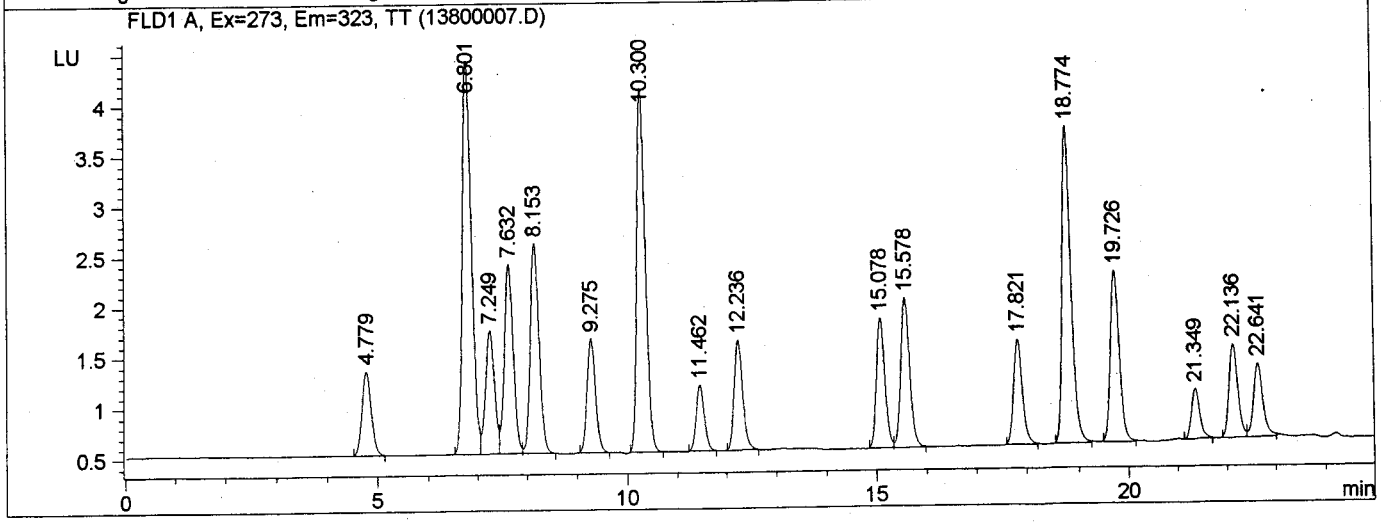
Injection Date : 5/18/2006 8:24:25 PM
Sample Name : ICAL,S3064
Acq. Operator :
Acq. Instrument : HPLC 4
Acq. Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL
Analysis Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 5/22/2006 3:04:09 PM
(modified after loading)

Seq. Line : 7
Location : Vial 7
Inj : 1
Inj Volume : 10 µl

HPLC04 METHOD 8310







JM 22MAY2006

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, May 22, 2006 3:04:08 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.741	PP	13.15704	75.44715	992.66081		Naphthalene
5.994	BB	18.68859	97.96462	1830.82099		Acenaphthylene
6.762	BV	34.41462	111.26010	3828.97360		1-Methylnaphthalene (UV)
7.212	VV	11.99022	83.23805	998.04267		2-Methylnaphthalene
7.594	VB	5.17957	182.34076	944.44598		Acenaphthene
8.115	BP	12.48572	15.66499	195.58864		Fluorene
9.237	BB	17.94612	5.51656	99.00091		Phenanthrene
10.262	BB	42.52945	2.38255	101.32866		Anthracene
11.425	MM	8.21146	24.85880	204.12706		Fluoranthene
12.199	MF	3.43952	31.84936	109.54636		Pyrene
15.041	BB	9.67921	11.48192	111.13591		Benzo(a)anthracene
15.540	BB	13.59609	7.71104	104.83992		Chrysene
17.782	BB	20.85804	9.58304	199.88339		Benzo(b)fluoranthene
18.739	PB	7.89588	13.47462	106.39401		Benzo(k)fluoranthene
19.690	BP	8.22974	12.32704	101.44830		Benzo(a)pyrene
21.311	PP	4.03761	53.19287	214.77209		Dibenz(a,h)anthracene
22.101	MF	6.79410	30.67938	208.43875		Benzo(g,h,i)perylene
22.603	BB	9.64680	11.34406	109.43393		Indeno(1,2,3-cd)pyrene
Totals :				1.04609e4		

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
5.994	BP	56.04304	35.96343	2015.49979		Acenaphthylene
6.763	BV	12.31411	319.16952	3930.28943		1-Methylnaphthalene (UV)
Totals :				5945.78921		

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.779	BB	11.08296	78.41449	869.06430		Naphthalene
6.801	BV	49.21495	69.93486	3441.84074		1-Methylnaphthalene (F)
7.249	VV	15.52372	59.51698	923.92465		2-Methylnaphthalene
7.632	VV	23.56936	39.24141	924.89482		Acenaphthene
8.153	VB	25.46982	7.01892	178.77070		Fluorene
9.275	BB	13.66179	6.60992	90.30337		Phenanthrene
10.300	BB	42.23863	2.36471	99.88196		Anthracene
11.462	BB	7.68846	24.34096	187.14448		Fluoranthene
12.236	BB	13.11404	7.39696	97.00398		Pyrene
15.078	BV	15.15430	6.51482	98.72748		Benzo(a)anthracene
15.578	VB	18.11283	5.14692	93.22533		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.821	BB	12.83850	15.01359	192.75198		Benzo(b)fluoranthene
18.774	BB	39.20409	2.38224	93.39338		Benzo(k)fluoranthene
19.726	BB	21.26584	4.49830	95.66009		Benzo(a)pyrene
21.349	BB	6.02086	33.66053	202.66539		Dibenz(a,h)anthracene
22.136	BV	11.79889	16.41176	193.64051		Benzo(g,h,i)perylene
22.641	VB	9.68046	10.88148	105.33775		Indeno(1,2,3-cd)pyrene
Totals :				7888.23092		

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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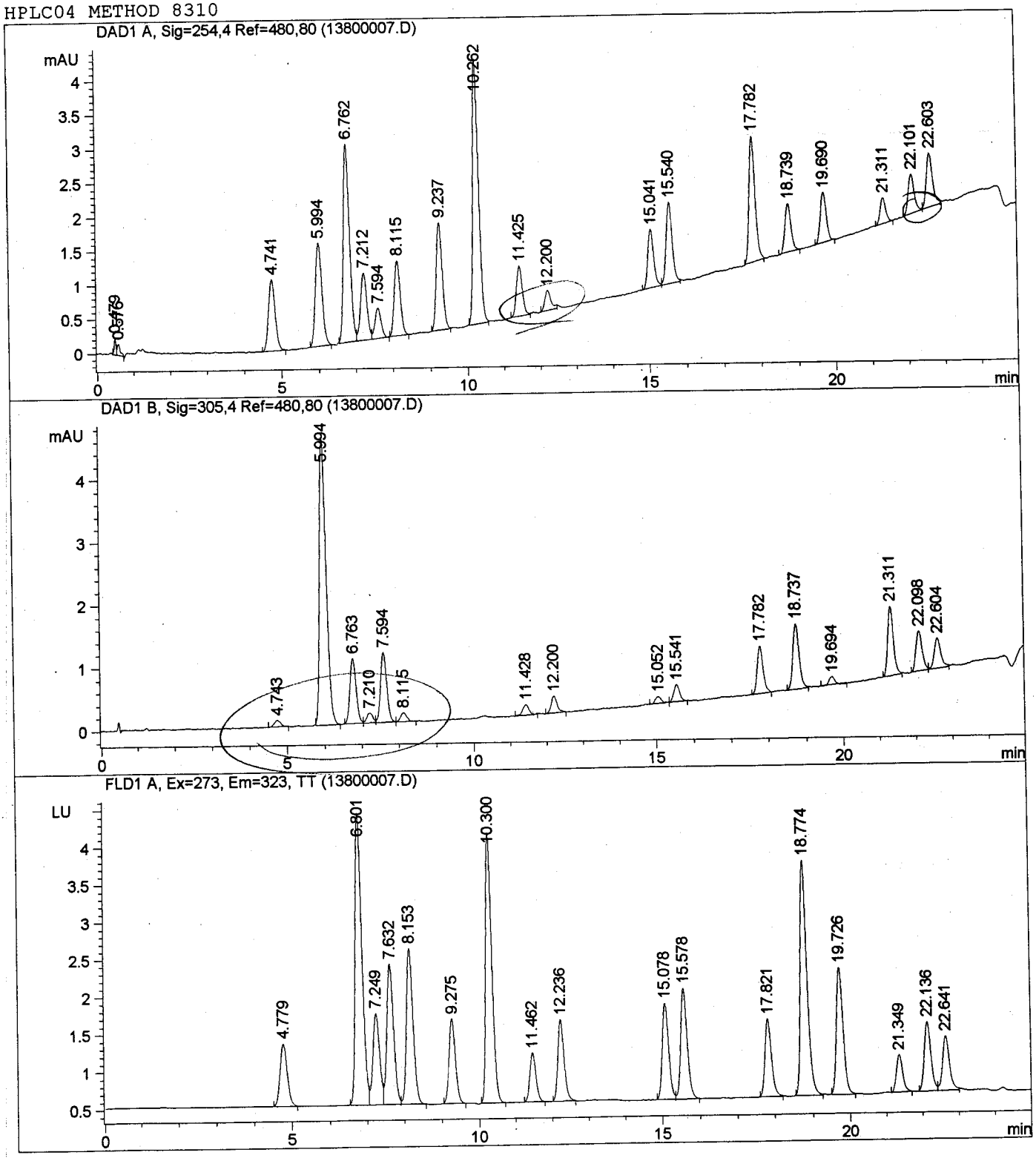
Injection Date : 5/18/2006 8:24:25 PM
Sample Name : ICAL,S3064
Acq. Operator :
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\051806.S
Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL

Seq. Line : 7
Location : Vial 7
Inj : 1
Inj Volume : 10 µl

HPLC04 METHOD 8310



External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.741	PP	13.15704	75.23966	989.93094		Naphthalene
5.994	BB	18.68859	97.95052	1830.55734		Acenaphthylene
6.762	BV	34.41462	111.49571	3837.08215		1-Methylnaphthalene (UV)
7.212	VV	11.99022	84.01255	1007.32908		2-Methylnaphthalene
7.594	VB	5.17957	183.82214	952.11889		Acenaphthene
8.115	BP	12.48572	15.67684	195.73657		Fluorene
9.237	BB	17.94612	5.50602	98.81159		Phenanthrene
10.262	BB	42.52945	2.39039	101.66206		Anthracene
11.425	BB	8.33177	24.89745	207.43969		Fluoranthene
12.200	BB	3.63215	32.14049	116.73924		Pyrene
15.041	BB	9.67921	11.54875	111.78279		Benzo(a)anthracene
15.540	BB	13.59609	7.69321	104.59755		Chrysene
17.782	BB	20.85804	9.63082	200.87998		Benzo(b)fluoranthene
18.739	PB	7.89588	13.44291	106.14363		Benzo(k)fluoranthene
19.690	BP	8.22974	12.47815	102.69193		Benzo(a)pyrene
21.311	PP	4.03761	53.48821	215.96454		Dibenz(a,h)anthracene
22.101	PB	6.88324	30.50981	210.00617		Benzo(g,h,i)perylene
22.603	BB	9.64680	11.38859	109.86342		Indeno(1,2,3-cd)pyrene
Totals :				1.04993e4		

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
5.994	BP	56.04304	36.00954	2018.08416		Acenaphthylene
6.763	BV	12.31411	319.09832	3929.41268		1-Methylnaphthalene (UV)
Totals :				5947.49684		

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.779	BB	11.08296	77.69214	861.05854		Naphthalene
6.801	BV	49.21495	69.11596	3401.53860		1-Methylnaphthalene (F)
7.249	VV	15.52372	59.25143	919.80224		2-Methylnaphthalene
7.632	VV	23.56936	39.05561	920.51559		Acenaphthene
8.153	VB	25.46982	6.97885	177.75006		Fluorene
9.275	BB	13.66179	6.58089	89.90669		Phenanthrene
10.300	BB	42.23863	2.37078	100.13855		Anthracene
11.462	BB	7.68846	24.15496	185.71436		Fluoranthene
12.236	BB	13.11404	7.36549	96.59133		Pyrene
15.078	BV	15.15430	6.50643	98.60035		Benzo(a)anthracene
15.578	VB	18.11283	5.13250	92.96409		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.821	BB	12.83850	14.92551	191.62111		Benzo(b)fluoranthene
18.774	BB	39.20409	2.37879	93.25822		Benzo(k)fluoranthene
19.726	BB	21.26584	4.48946	95.47213		Benzo(a)pyrene
21.349	BB	6.02086	33.71974	203.02184		Dibenz(a,h)anthracene
22.136	BV	11.79889	16.38463	193.32039		Benzo(g,h,i)perylene
22.641	VB	9.68046	10.92153	105.72548		Indeno(1,2,3-cd)pyrene

Totals : 7826.99958

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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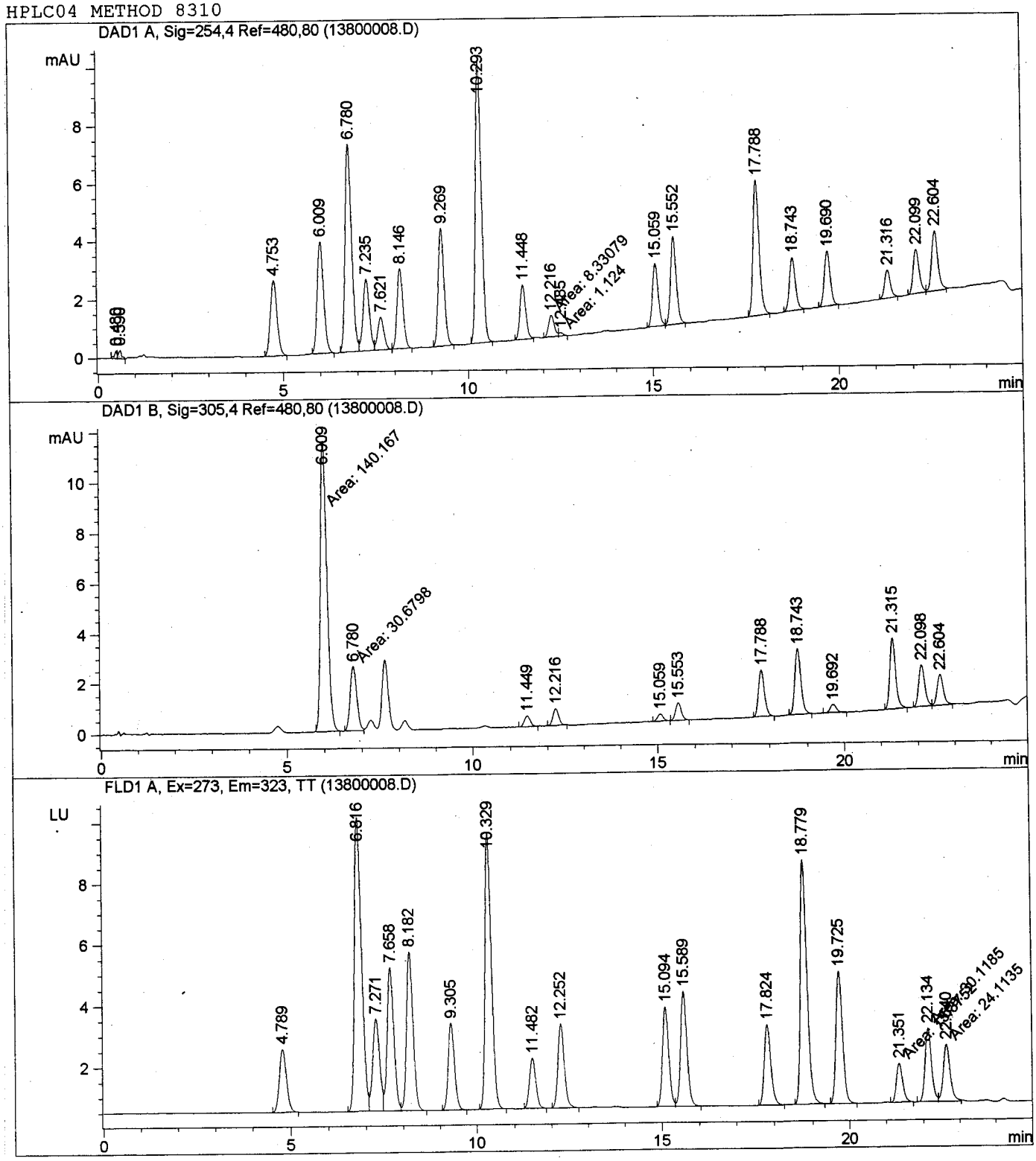
Injection Date	: 5/18/2006 8:56:04 PM	Seq. Line	: 8
Sample Name	: ICAL,S3063	Location	: Vial 8
Acq. Operator	:	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 5/22/2006 3:08:40 PM (modified after loading)		

HPLC04 METHOD 8310



JM 22MAY2006

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, May 22, 2006 3:08:39 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.753	BB	32.77972	76.37793	2503.64698		Naphthalene
6.009	BP	46.93712	104.60774	4909.98650		Acenaphthylene
6.780	BV	85.94093	115.82409	9954.03067		1-Methylnaphthalene (UV)
7.235	VV	29.85911	85.16072	2542.82320		2-Methylnaphthalene
7.621	VB	13.08239	192.22136	2514.71478		Acenaphthene
8.146	BP	31.10701	15.79700	491.39753		Fluorene
9.269	BB	45.25932	5.54654	251.03249		Phenanthrene
10.293	BB	106.41690	2.42535	258.09860		Anthracene
11.448	BB	20.48045	24.49211	501.60948		Fluoranthene
12.216	MF	8.33079	30.45653	253.72692		Pyrene
15.059	BV	23.48936	11.08579	260.39827		Benzo(a)anthracene
15.552	VB	33.59677	7.55520	253.83040		Chrysene
17.788	BB	53.17228	9.44279	502.09453		Benzo(b)fluoranthene
18.743	BB	20.57043	12.70764	261.40174		Benzo(k)fluoranthene
19.690	BB	21.51167	11.80156	253.87126		Benzo(a)pyrene
21.316	PB	10.67297	49.06117	523.62828		Dibenz(a,h)anthracene
22.099	BV	17.66954	29.06294	513.52874		Benzo(g,h,i)perylene
22.604	VB	24.43922	10.71133	261.77653		Indeno(1,2,3-cd)pyrene

Totals : 2.70116e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.009	MM	140.16672	35.82836	5021.94384		Acenaphthylene
6.780	MF	30.67977	324.56337	9957.52924		1-Methylnaphthalene (UV)

Totals : 1.49795e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.789	BB	27.68407	83.52975	2312.44313		Naphthalene
6.816	BV	122.94567	75.46335	9277.89216		1-Methylnaphthalene (F)
7.271	VV	38.81281	61.91813	2403.21689		2-Methylnaphthalene
7.658	VV	58.84945	40.87067	2405.21631		Acenaphthene
8.182	VP	63.67719	7.44721	474.21718		Fluorene
9.305	BP	34.08815	6.99887	238.57836		Phenanthrene
10.329	BB	106.64105	2.39799	255.72394		Anthracene
11.482	BB	19.30645	24.53096	473.60574		Fluoranthene
12.252	BP	33.29245	7.48167	249.08298		Pyrene
15.094	BV	38.07673	6.55493	249.59029		Benzo(a)anthracene
15.589	VB	45.37164	5.31771	241.27313		Chrysene

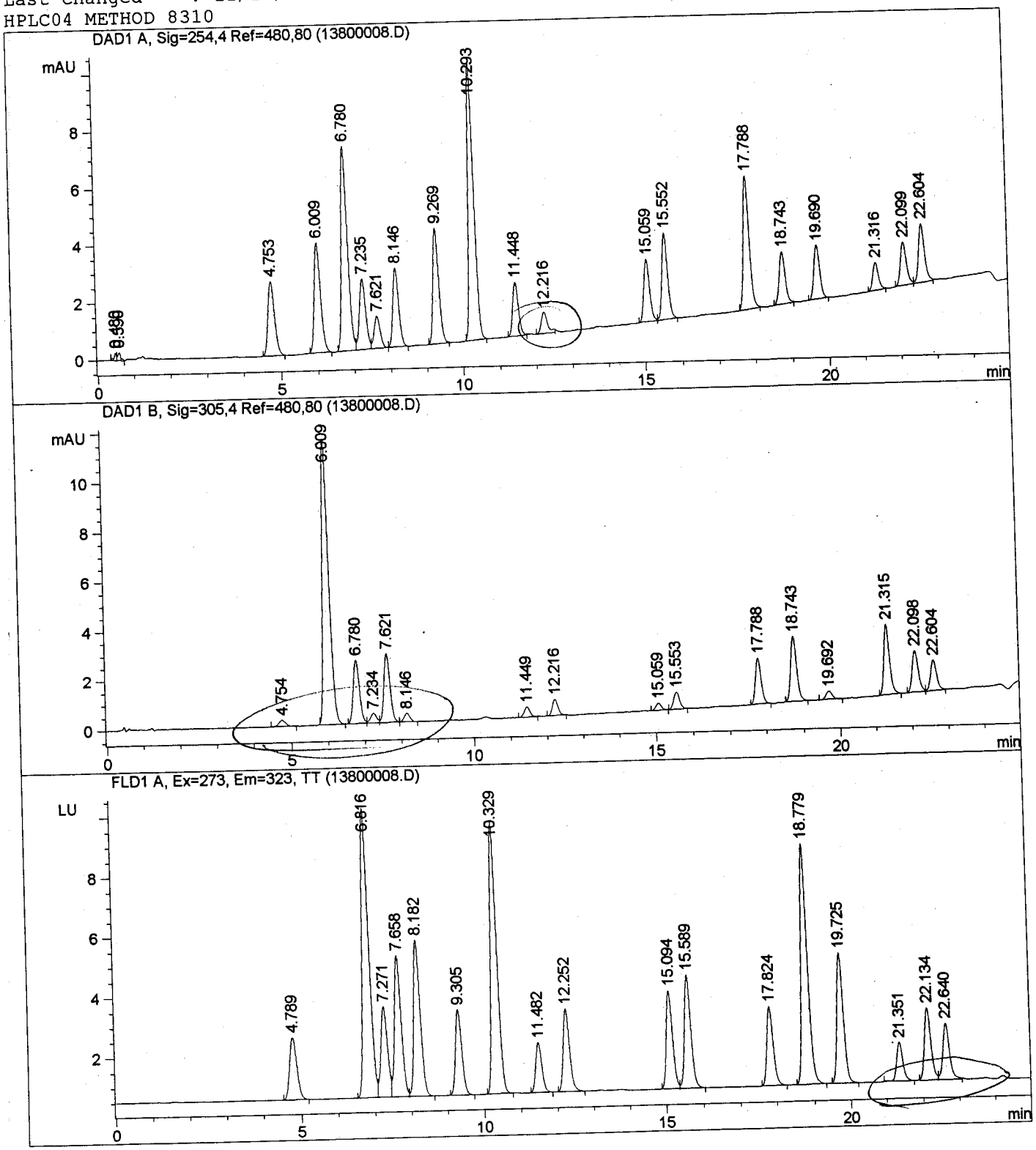
RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.824	BB	32.34958	15.00282	485.33482		Benzo(b)fluoranthene
18.779	BB	98.73430	2.48862	245.71240		Benzo(k)fluoranthene
19.725	BB	53.53555	4.60008	246.26762		Benzo(a)pyrene
21.351	FM	15.37518	32.19158	494.95134		Dibenz(a,h)anthracene
22.134	MF	30.11854	16.00712	482.11107		Benzo(g,h,i)perylene
22.640	FM	24.11350	10.49065	252.96625		Indeno(1,2,3-cd)pyrene
Totals :				2.07882e4		

Results obtained with enhanced integrator!

*** End of Report ***

Injection Date	: 5/18/2006 8:56:04 PM	Seq. Line	: 8
Sample Name	: ICAL,S3063	Location	: Vial 8
Acq. Operator	:	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Sequence File	: G:\HPLC4\SEQUENCE\051806.S		
Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		

HPLC04 METHOD 8310



External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.753	BB	32.77972	76.36412	2503.19429		Naphthalene
6.009	BP	46.93712	104.85627	4921.65160		Acenaphthylene
6.780	BV	85.94093	116.07172	9975.31178		1-Methylnaphthalene (UV)
7.235	VV	29.85911	85.97857	2567.24355		2-Methylnaphthalene
7.621	VB	13.08239	193.80657	2535.45315		Acenaphthene
8.146	BP	31.10701	15.81412	491.93013		Fluorene
9.269	BB	45.25932	5.54988	251.18387		Phenanthrene
10.293	BB	106.41690	2.43914	259.56562		Anthracene
11.448	BB	20.48045	24.55847	502.96849		Fluoranthene
12.216	BB	9.07741	30.72660	278.91797		Pyrene
15.059	BV	23.48936	11.17440	262.47948		Benzo(a)anthracene
15.552	VB	33.59677	7.57739	254.57574		Chrysene
17.788	BB	53.17228	9.47431	503.77063		Benzo(b)fluoranthene
18.743	BB	20.57043	12.73634	261.99202		Benzo(k)fluoranthene
19.690	BB	21.51167	11.86888	255.31947		Benzo(a)pyrene
21.316	PB	10.67297	49.03186	523.31537		Dibenz(a,h)anthracene
22.099	BV	17.66954	28.97324	511.94371		Benzo(g,h,i)perylene
22.604	VB	24.43922	10.84229	264.97718		Indeno(1,2,3-cd)pyrene
Totals :				2.71258e4		

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.009	BB	140.42299	35.92868	5045.21256		Acenaphthylene
6.780	BV	30.85767	325.21271	1.00353e4		1-Methylnaphthalene (UV)
Totals :				1.50805e4		

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.789	BB	27.68407	82.81183	2292.56834		Naphthalene
6.816	BV	122.94567	74.68987	9182.79644		1-Methylnaphthalene (F)
7.271	VV	38.81281	61.67004	2393.58779		2-Methylnaphthalene
7.658	VV	58.84945	40.71010	2395.76673		Acenaphthene
8.182	VP	63.67719	7.40100	471.27502		Fluorene
9.305	BP	34.08815	6.96620	237.46500		Phenanthrene
10.329	BB	106.64105	2.40675	256.65820		Anthracene
11.482	BB	19.30645	24.36488	470.39931		Fluoranthene
12.252	BP	33.29245	7.46607	248.56366		Pyrene
15.094	BV	38.07673	6.56025	249.79276		Benzo(a)anthracene
15.589	VB	45.37164	5.30856	240.85792		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.824	BB	32.34958	14.94306	483.40187		Benzo(b)fluoranthene
18.779	BB	98.73430	2.48948	245.79718		Benzo(k)fluoranthene
19.725	BB	53.53555	4.59934	246.22808		Benzo(a)pyrene
21.351	BB	15.91616	32.20018	512.50327		Dibenz(a,h)anthracene
22.134	BV	30.24633	15.94548	482.29231		Benzo(g,h,i)perylene
22.640	VB	24.45337	10.53710	257.66761		Indeno(1,2,3-cd)pyrene

Totals : 2.06676e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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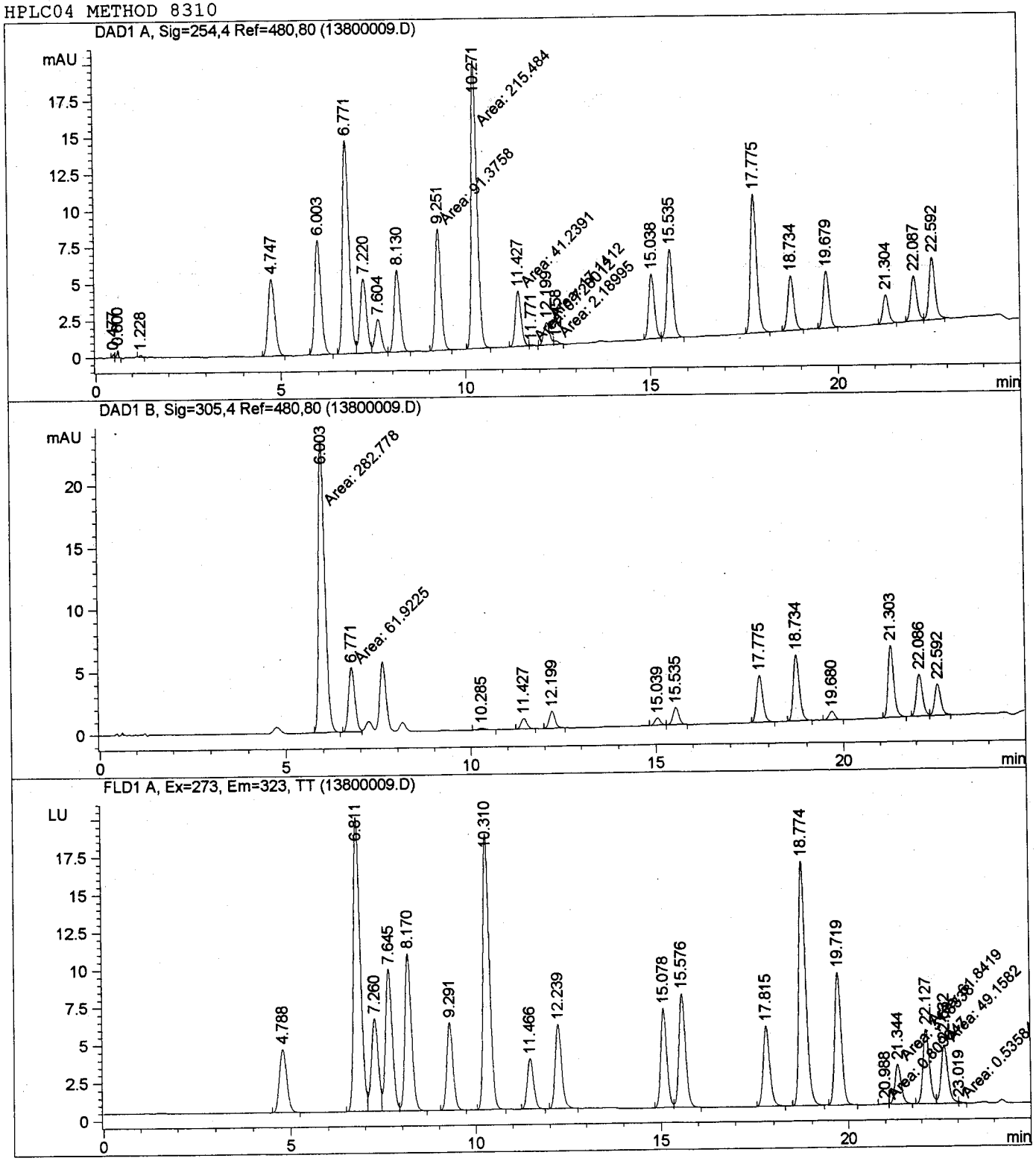
Injection Date	: 5/18/2006 9:27:42 PM	Seq. Line	: 9
Sample Name	: ICAL,S3062	Location	: Vial 9
Acq. Operator	:	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 5/22/2006 3:12:31 PM (modified after loading)		

HPLC04 METHOD 8310



JM 22MAY2006

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, May 22, 2006 3:12:30 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.747	BB	66.00784	76.67739	5061.30895		Naphthalene
6.003	BP	94.78723	106.93527	1.01361e4		Acenaphthylene
6.771	BV	173.09207	117.45247	2.03301e4		1-Methylnaphthalene (UV)
7.220	VV	60.88431	86.05257	5239.25141		2-Methylnaphthalene
7.604	VV	26.89059	195.94097	5268.96792		Acenaphthene
8.130	VP	63.54686	15.87401	1008.74328		Fluorene
9.251	MM	91.37579	5.56085	508.12697		Phenanthrene
10.271	MM	215.48436	2.43979	525.73592		Anthracene
11.427	MF	41.23911	24.39645	1006.08770		Fluoranthene
12.199	MF	17.14116	30.11218	516.15780		Pyrene
15.038	BV	47.78680	10.96489	523.97718		Benzo(a)anthracene
15.535	VB	67.79062	7.51456	509.41699		Chrysene
17.775	BB	107.52938	9.40124	1010.90932		Benzo(b)fluoranthene
18.734	BB	41.83699	12.44716	520.75155		Benzo(k)fluoranthene
19.679	BB	44.20454	11.62273	513.77751		Benzo(a)pyrene
21.304	BB	21.81421	47.45179	1035.12328		Dibenz(a,h)anthracene
22.087	BV	35.90152	28.47010	1022.11981		Benzo(g,h,i)perylene
22.592	VB	50.25140	10.54000	529.64997		Indeno(1,2,3-cd)pyrene

Totals : 5.52663e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.003	MM	282.77841	35.83417	1.01331e4		Acenaphthylene
6.771	MF	61.92251	327.20946	2.02616e4		1-Methylnaphthalene (UV)

Totals : 3.03948e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.788	BB	55.85367	85.40601	4770.23924		Naphthalene
6.811	BV	247.30377	77.41538	1.91451e4		1-Methylnaphthalene (F)
7.260	VV	78.28068	62.77767	4914.27847		2-Methylnaphthalene
7.645	VV	119.32713	41.45016	4946.12834		Acenaphthene
8.170	VB	128.43744	7.59911	976.01003		Fluorene
9.291	BB	68.83022	7.13713	491.24997		Phenanthrene
10.310	BB	216.08749	2.40817	520.37505		Anthracene
11.466	BB	39.23374	24.64805	967.03499		Fluoranthene
12.239	BP	67.75372	7.51160	508.93881		Pyrene
15.078	BV	76.80959	6.57644	505.13344		Benzo(a)anthracene
15.576	VB	91.38473	5.38541	492.14433		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.815	BB	65.39377	15.02906	982.80711		Benzo(b)fluoranthene
18.774	BB	198.87831	2.52646	502.45906		Benzo(k)fluoranthene
19.719	BB	108.22565	4.64045	502.21596		Benzo(a)pyrene
21.344	MF	31.83378	31.75456	1010.86765		Dibenz(a,h)anthracene
22.127	FM	61.84187	15.88598	982.41888		Benzo(g,h,i)perylene
22.632	FM	49.15816	10.36973	509.75698		Indeno(1,2,3-cd)pyrene

Totals : 4.27272e4

Results obtained with enhanced integrator!

*** End of Report ***

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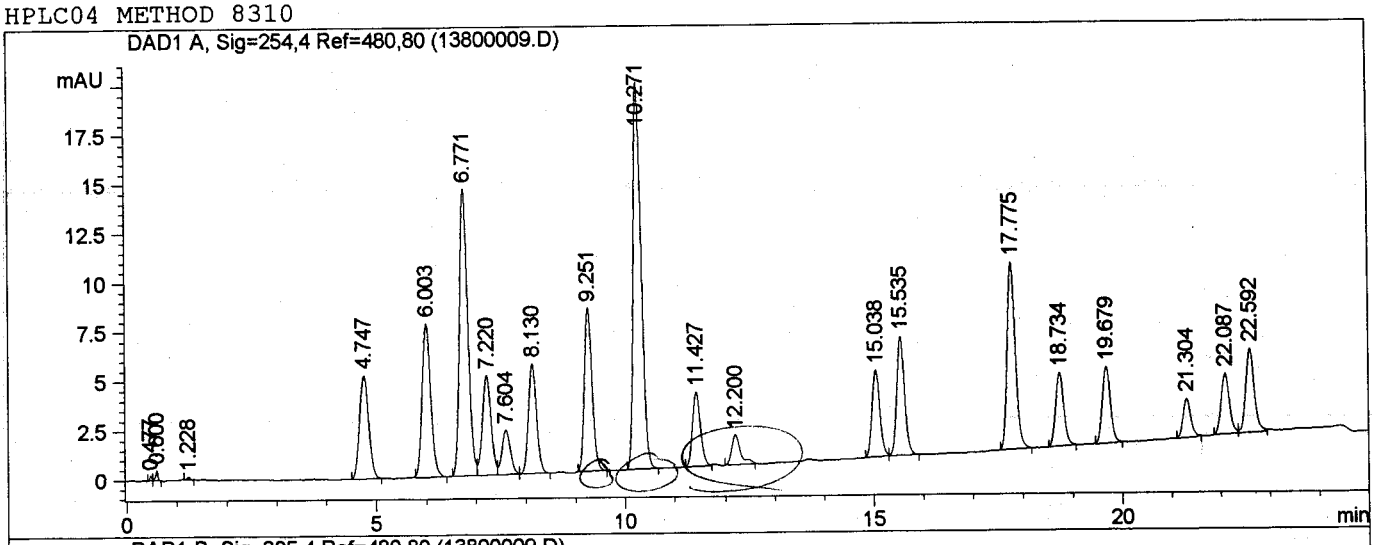
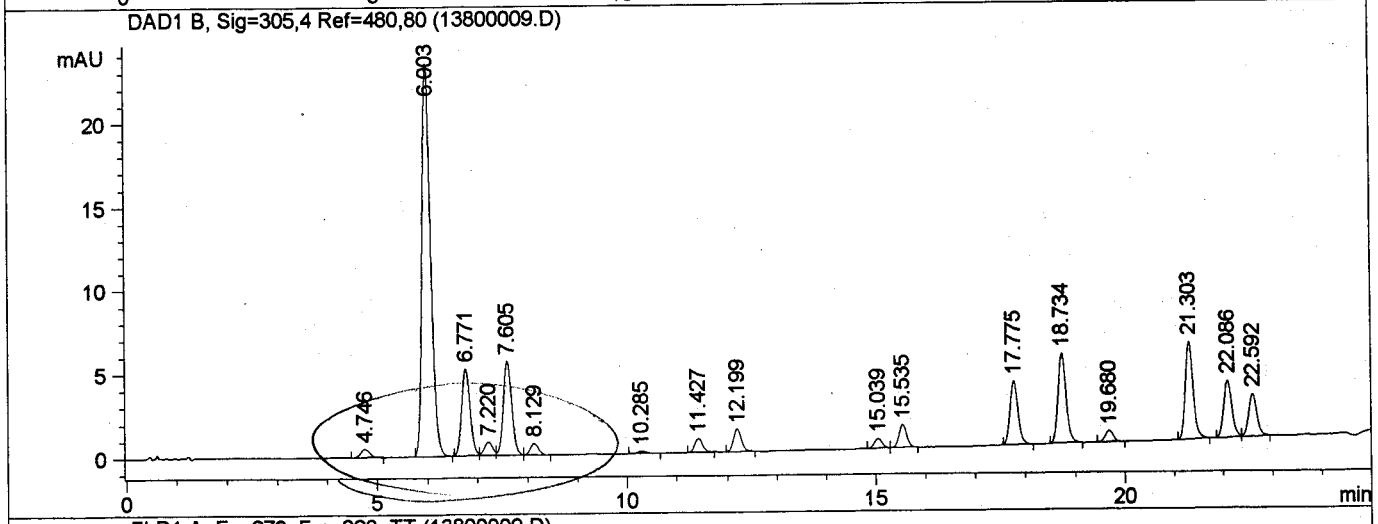
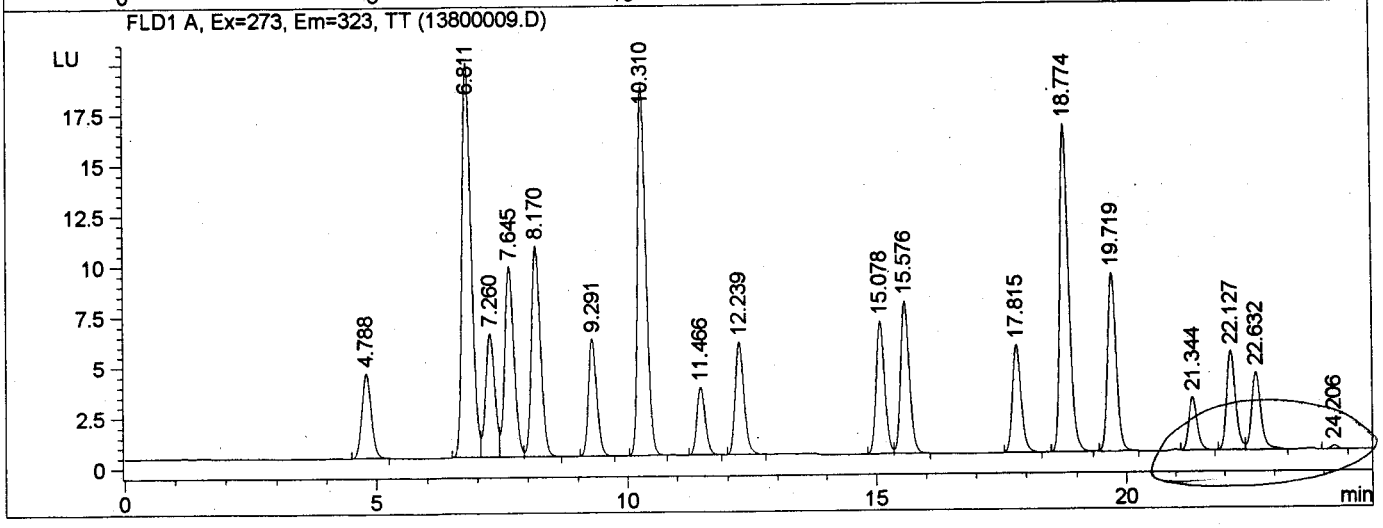
Injection Date : 5/18/2006 9:27:42 PM
Sample Name : ICAL,S3062
Acq. Operator :
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\051806.S
Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL

Seq. Line : 9
Location : Vial 9
Inj : 1
Inj Volume : 10 µl

HPLC04 METHOD 8310







External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.747	BB	66.00784	76.74366	5065.68344		Naphthalene
6.003	BP	94.78723	107.16262	1.01576e4		Acenaphthylene
6.771	BV	173.09207	117.61057	2.03575e4		1-Methylnaphthalene (UV)
7.220	VV	60.88431	86.65081	5275.67504		2-Methylnaphthalene
7.604	VV	26.89059	197.16682	5301.93189		Acenaphthene
8.130	VP	63.54686	15.86111	1007.92400		Fluorene
9.251	BB	90.80871	5.56434	505.29050		Phenanthrene
10.271	BB	215.28198	2.45555	528.63544		Anthracene
11.427	BB	41.29040	24.44131	1009.19134		Fluoranthene
12.200	BB	19.25382	30.22813	582.00685		Pyrene
15.038	BV	47.78680	11.04099	527.61359		Benzo(a)anthracene
15.535	VB	67.79062	7.53767	510.98350		Chrysene
17.775	BB	107.52938	9.42324	1013.27528		Benzo(b)fluoranthene
18.734	BB	41.83699	12.51259	523.48920		Benzo(k)fluoranthene
19.679	BB	44.20454	11.67508	516.09156		Benzo(a)pyrene
21.304	BB	21.81421	47.64691	1039.37946		Dibenz(a,h)anthracene
22.087	BV	35.90152	28.47528	1022.30574		Benzo(g,h,i)perylene
22.592	VB	50.25140	10.65929	535.64450		Indeno(1,2,3-cd)pyrene

Totals : 5.54802e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.003	BB	283.36636	35.90159	1.01733e4		Acenaphthylene
6.771	BV	62.20593	327.25890	2.03574e4		1-Methylnaphthalene (UV)

Totals : 3.05307e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.788	BB	55.85367	84.53565	4721.62655		Naphthalene
6.811	BV	247.30377	76.56078	1.89338e4		1-Methylnaphthalene (F)
7.260	VV	78.28068	62.48287	4891.20145		2-Methylnaphthalene
7.645	VV	119.32713	41.27029	4924.66503		Acenaphthene
8.170	VB	128.43744	7.54290	968.79023		Fluorene
9.291	BB	68.83022	7.09628	488.43876		Phenanthrene
10.310	BB	216.08749	2.41870	522.65006		Anthracene
11.466	BB	39.23374	24.43544	958.69373		Fluoranthene
12.239	BP	67.75372	7.49931	508.10642		Pyrene
15.078	BV	76.80959	6.57819	505.26812		Benzo(a)anthracene
15.576	VB	91.38473	5.36746	490.50382		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.815	BB	65.39377	14.94890	977.56498		Benzo(b)fluoranthene
18.774	BB	198.87831	2.52619	502.40408		Benzo(k)fluoranthene
19.719	BB	108.22565	4.63593	501.72649		Benzo(a)pyrene
21.344	VB	32.08181	31.73429	1018.09339		Dibenz(a,h)anthracene
22.127	BV	61.99461	15.80164	979.61673		Benzo(g,h,i)perylene
22.632	VB	50.43483	10.40733	524.89177		Indeno(1,2,3-cd)pyrene

Totals : 4.24180e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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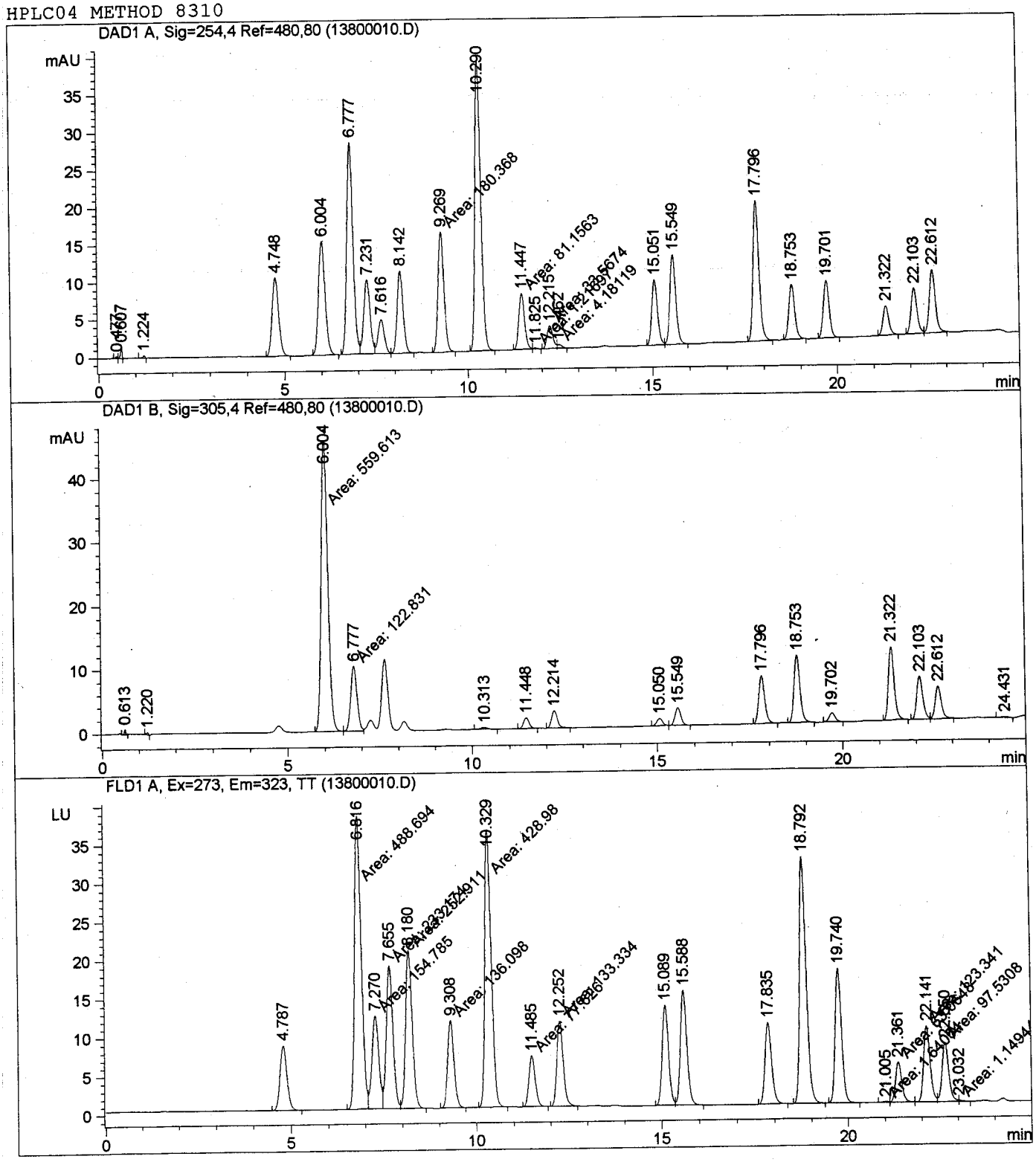
Injection Date	: 5/18/2006 9:59:20 PM	Seq. Line	: 10
Sample Name	: ICAL,S3061	Location	: Vial 10
Acq. Operator	:	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 5/22/2006 3:16:08 PM (modified after loading)		

HPLC04 METHOD 8310



JM 22MAY2006

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, May 22, 2006 3:16:07 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.748	BB	130.71696	76.88265	1.00499e4		Naphthalene
6.004	BP	187.08742	108.17547	2.02383e4		Acenaphthylene
6.777	BV	340.84924	118.27930	4.03154e4		1-Methylnaphthalene (UV)
7.231	VV	120.14920	86.52629	1.03961e4		2-Methylnaphthalene
7.616	VV	53.03941	197.59528	1.04803e4		Acenaphthene
8.142	VP	125.67238	15.89615	1997.70672		Fluorene
9.269	MM	180.36794	5.56956	1004.56957		Phenanthrene
10.290	BB	428.09290	2.44898	1048.38885		Anthracene
11.447	MF	81.15630	24.38102	1978.67352		Fluoranthene
12.215	MF	33.56740	29.90175	1003.72397		Pyrene
15.051	BV	94.79131	10.90985	1034.15935		Benzo(a)anthracene
15.549	VB	134.58353	7.50648	1010.24825		Chrysene
17.796	BB	213.44913	9.38973	2004.22920		Benzo(b)fluoranthene
18.753	BB	83.72203	12.33911	1033.05512		Benzo(k)fluoranthene
19.701	BB	87.60189	11.54393	1011.26973		Benzo(a)pyrene
21.322	BB	44.01789	46.74019	2057.40421		Dibenz(a,h)anthracene
22.103	BV	71.56614	28.20060	2018.20777		Benzo(g,h,i)perylene
22.612	VB	99.94793	10.47655	1047.10941		Indeno(1,2,3-cd)pyrene

Totals : 1.09729e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.004	MF	559.61334	35.84867	2.00614e4		Acenaphthylene
6.777	MF	122.83121	328.29217	4.03245e4		1-Methylnaphthalene (UV)

Totals : 6.03859e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.787	BB	110.44406	86.23241	9523.85763		Naphthalene
6.816	MF	488.69351	78.25434	3.82424e4		1-Methylnaphthalene (F)
7.270	MF	154.78474	63.16158	9776.44914		2-Methylnaphthalene
7.655	FM	233.17419	41.70006	9723.37784		Acenaphthene
8.180	FM	252.91112	7.66160	1937.70495		Fluorene
9.308	MM	136.09827	7.20018	979.93250		Phenanthrene
10.329	MF	428.97952	2.41475	1035.87975		Anthracene
11.485	MM	77.62599	24.67740	1915.60790		Fluoranthene
12.252	MM	133.33412	7.52665	1003.55946		Pyrene
15.089	BV	151.99316	6.59134	1001.83827		Benzo(a)anthracene
15.588	VB	180.56219	5.42067	978.76878		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.835	BB	129.20119	15.03529	1942.57735		Benzo(b)fluoranthene
18.792	BB	392.59399	2.54606	999.56844		Benzo(k)fluoranthene
19.740	BB	214.33957	4.66052	998.93354		Benzo(a)pyrene
21.361	MF	63.06483	31.52180	1987.91703		Dibenz(a,h)anthracene
22.141	MF	123.34122	15.81446	1950.57435		Benzo(g,h,i)perylene
22.650	FM	97.53080	10.31825	1006.34760		Indeno(1,2,3-cd)pyrene
Totals :				8.50053e4		

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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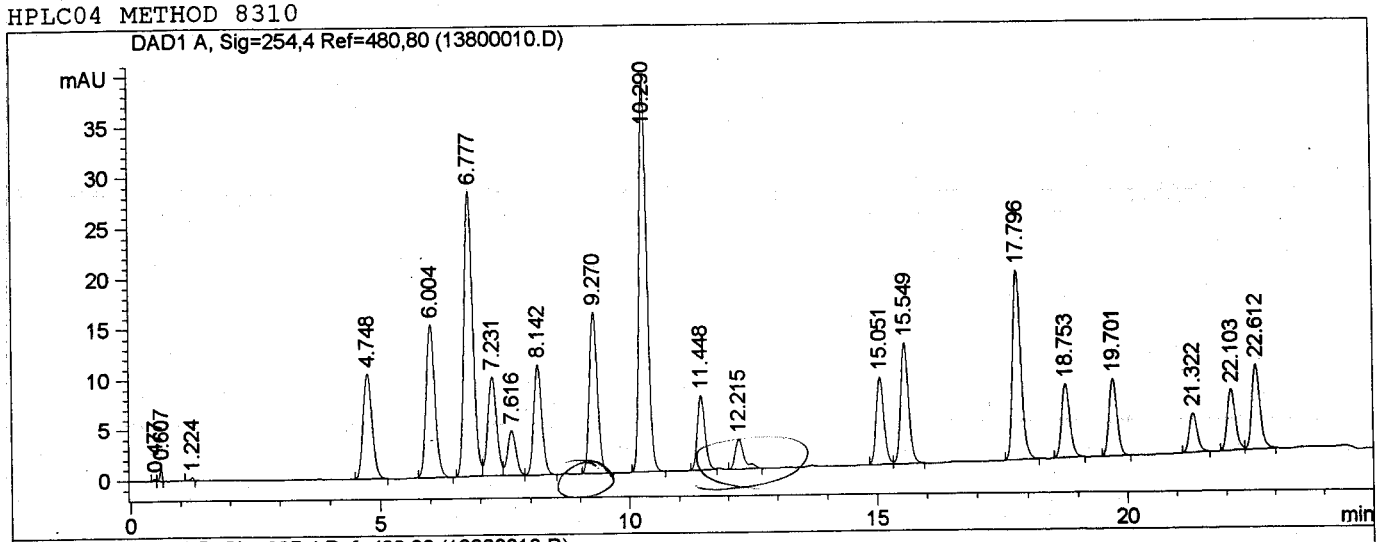
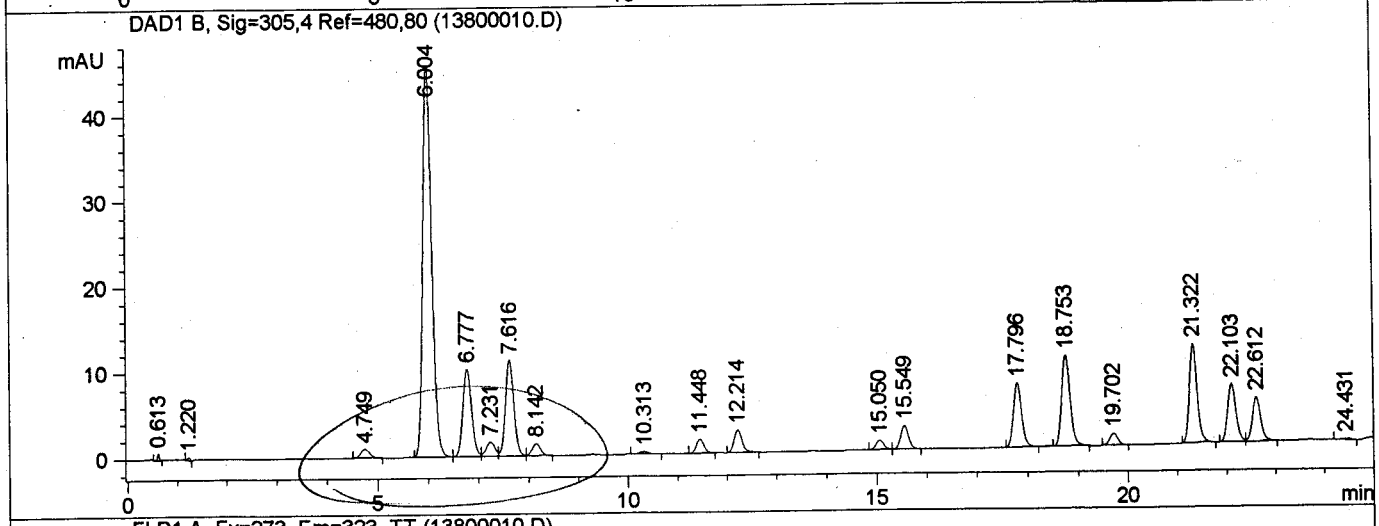
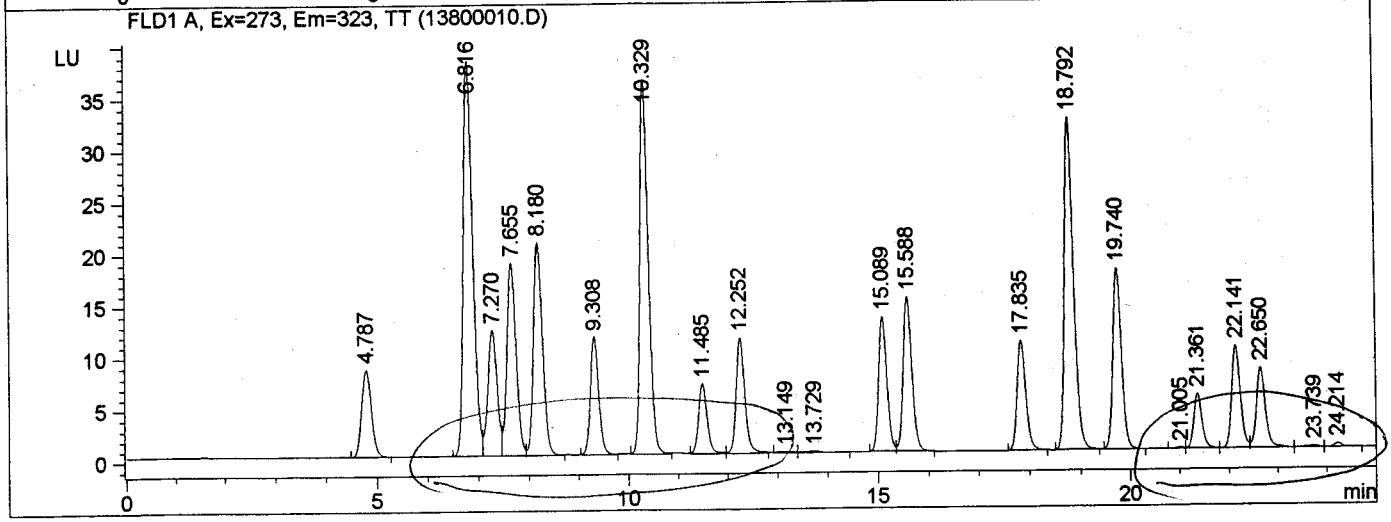
Injection Date : 5/18/2006 9:59:20 PM
Sample Name : ICAL,S3061
Acq. Operator :
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\051806.S
Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL
HPLC04 METHOD 8310

Seq. Line : 10
Location : Vial 10
Inj : 1
Inj Volume : 10 µl







External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.748	BB	130.71696	76.92901	1.00559e4		Naphthalene
6.004	BP	187.08742	108.27875	2.02576e4		Acenaphthylene
6.777	BV	340.84924	118.35743	4.03420e4		1-Methylnaphthalene (UV)
7.231	VV	120.14920	86.96994	1.04494e4		2-Methylnaphthalene
7.616	VV	53.03941	198.73637	1.05409e4		Acenaphthene
8.142	VP	125.67238	15.88339	1996.10338		Fluorene
9.270	BP	179.71016	5.57145	1001.24549		Phenanthrene
10.290	BB	428.09290	2.46352	1054.61671		Anthracene
11.448	BB	81.31540	24.38455	1982.83926		Fluoranthene
12.215	BP	37.75097	30.01026	1132.91647		Pyrene
15.051	BV	94.79131	10.97704	1040.52767		Benzo(a)anthracene
15.549	VB	134.58353	7.51831	1011.84027		Chrysene
17.796	BB	213.44913	9.39845	2006.09135		Benzo(b)fluoranthene
18.753	BB	83.72203	12.40432	1038.51473		Benzo(k)fluoranthene
19.701	BB	87.60189	11.58407	1014.78632		Benzo(a)pyrene
21.322	BB	44.01789	46.97767	2067.85759		Dibenz(a,h)anthracene
22.103	BV	71.56614	28.23478	2020.65405		Benzo(g,h,i)perylene
22.612	VB	99.94793	10.57314	1056.76374		Indeno(1,2,3-cd)pyrene

Totals : 1.10071e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.004	BV	560.06903	35.88844	2.01000e4		Acenaphthylene
6.777	VV	123.09278	328.25519	4.04058e4		1-Methylnaphthalene (UV)

Totals : 6.05058e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.787	BB	110.44406	85.37302	9428.94253		Naphthalene
6.816	BV	487.92715	77.47294	3.78012e4		1-Methylnaphthalene (F)
7.270	VV	154.79007	62.87797	9732.88474		2-Methylnaphthalene
7.655	VV	234.63596	41.53818	9746.35004		Acenaphthene
8.180	VB	254.35931	7.61197	1936.17458		Fluorene
9.308	BB	137.84933	7.16019	987.02705		Phenanthrene
10.329	BB	432.64206	2.42452	1048.95086		Anthracene
11.485	BV	81.53288	24.47091	1995.18350		Fluoranthene
12.252	VB	138.32648	7.51570	1039.62037		Pyrene
15.089	BV	151.99316	6.58692	1001.16622		Benzo(a)anthracene
15.588	VB	180.56219	5.39615	974.33987		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.835	BB	129.20119	14.95172	1931.78042		Benzo(b)fluoranthene
18.792	BB	392.59399	2.54405	998.77704		Benzo(k)fluoranthene
19.740	BB	214.33957	4.65366	997.46401		Benzo(a)pyrene
21.361	VV	63.13339	31.50868	1989.24982		Dibenz(a,h)anthracene
22.141	VV	123.19981	15.73356	1938.37214		Benzo(g,h,i)perylene
22.650	VB	99.28861	10.34723	1027.36199		Indeno(1,2,3-cd)pyrene

Totals : 8.45748e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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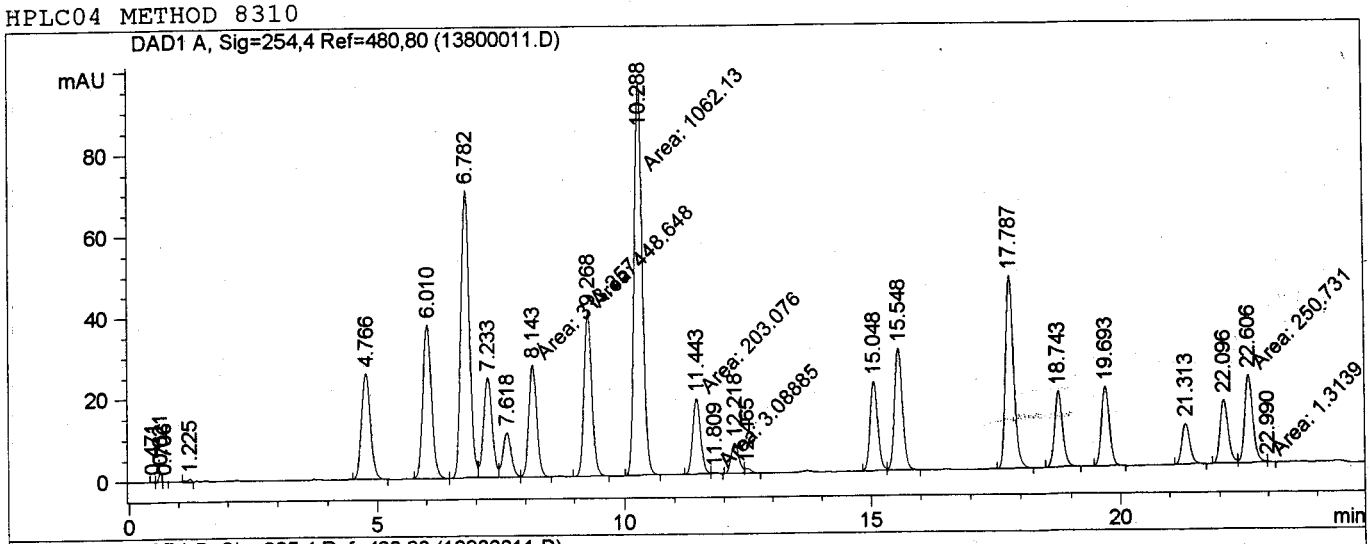
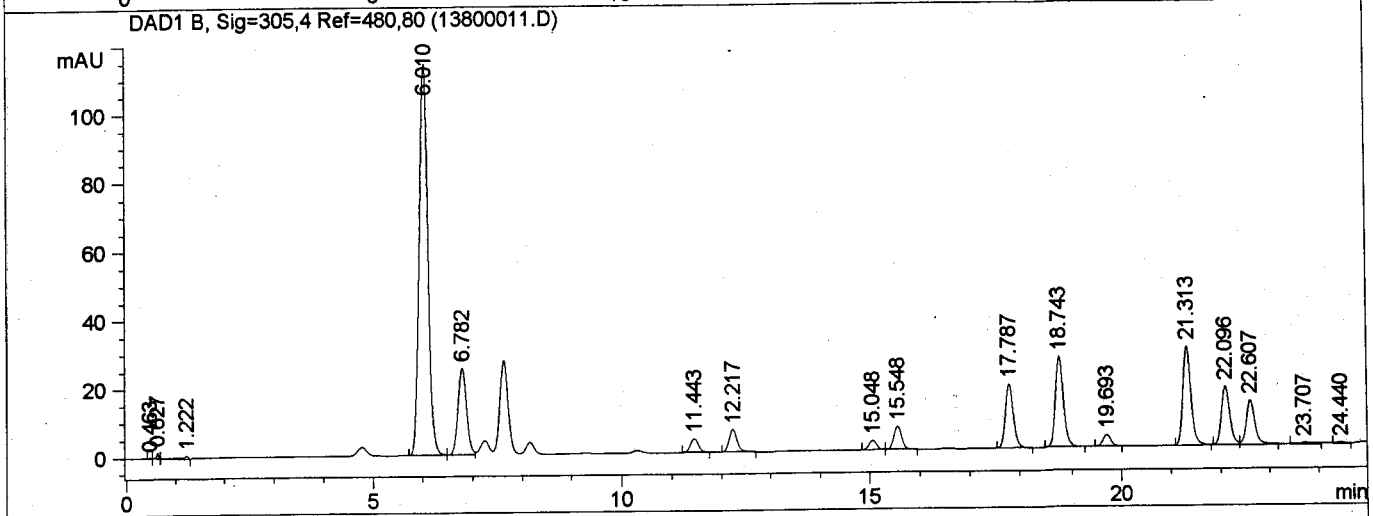
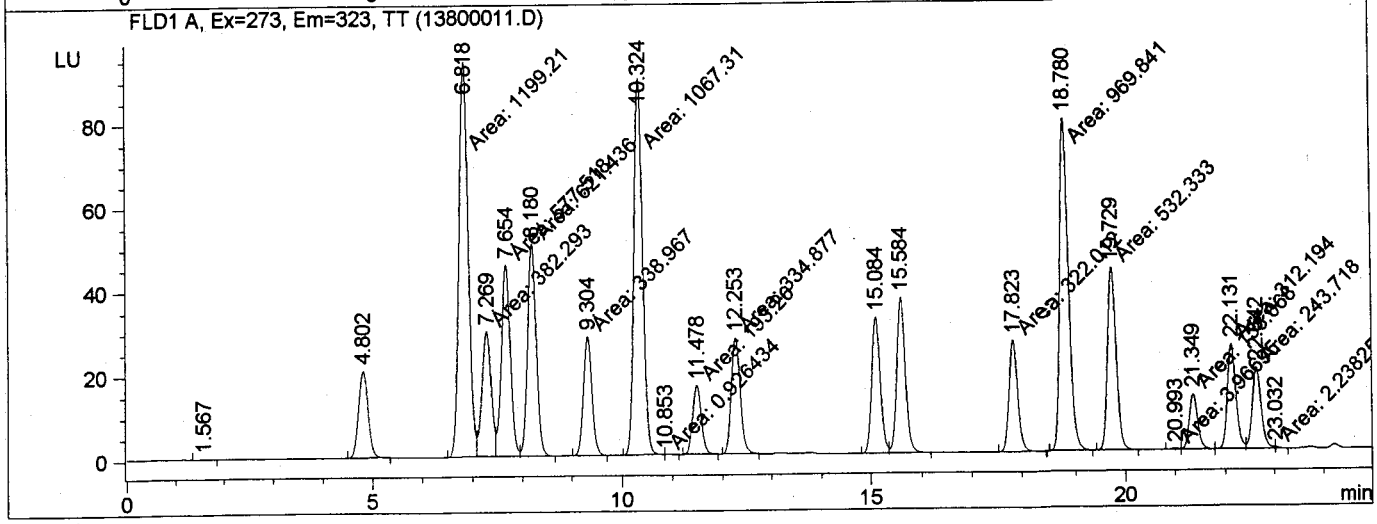
Injection Date	: 5/18/2006 10:31:01 PM	Seq. Line	: 11
Sample Name	: ICAL,S3060	Location	: Vial 11
Acq. Operator	:	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 5/22/2006 3:21:32 PM (modified after loading)		

HPLC04 METHOD 8310







Jm 22MAY 2006

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, May 22, 2006 3:21:31 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.766	BB	323.77454	77.03473	2.49419e4		Naphthalene
6.010	BP	462.20984	108.95921	5.03620e4		Acenaphthylene
6.782	VV	839.48529	118.81344	9.97421e4		1-Methylnaphthalene (UV)
7.233	VV	297.53644	86.84626	2.58399e4		2-Methylnaphthalene
7.618	VV	131.16444	199.10257	2.61152e4		Acenaphthene
8.143	MF	313.25665	15.90514	4982.38958		Fluorene
9.268	MM	448.64795	5.57507	2501.24265		Phenanthrene
10.288	MM	1062.12512	2.45979	2612.60556		Anthracene
11.443	MF	203.07642	24.36420	4947.79342		Fluoranthene
12.218	BV	83.91055	29.83193	2503.21375		Pyrene
15.048	BV	236.18423	10.90322	2575.16825		Benzo(a)anthracene
15.548	VB	334.09467	7.50045	2505.86040		Chrysene
17.787	BB	532.37317	9.38267	4995.07946		Benzo(b)fluoranthene
18.743	BB	208.88004	12.30105	2569.44342		Benzo(k)fluoranthene
19.693	BB	220.13969	11.51181	2534.20720		Benzo(a)pyrene
21.313	BP	110.60422	46.44187	5136.66707		Dibenz(a,h)anthracene
22.096	BV	181.34886	28.06000	5088.64952		Benzo(g,h,i)perylene
22.606	MF	250.73134	10.47541	2626.51304		Indeno(1,2,3-cd)pyrene

Totals : 2.72580e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.010	BV	1390.57104	35.87315	4.98842e4		Acenaphthylene
6.782	VV	304.35931	328.83554	1.00084e5		1-Methylnaphthalene (UV)

Totals : 1.49968e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.802	BB	274.47531	86.40738	2.37167e4		Naphthalene
6.818	MF	1199.20923	78.75727	9.44464e4		1-Methylnaphthalene (F)
7.269	MF	382.29327	63.42093	2.42454e4		2-Methylnaphthalene
7.654	MF	577.51837	41.92597	2.42130e4		Acenaphthene
8.180	FM	621.43634	7.70284	4786.82712		Fluorene
9.304	MM	338.96707	7.22229	2448.12001		Phenanthrene
10.324	MF	1067.30798	2.42183	2584.83993		Anthracene
11.478	MM	193.25951	24.60893	4755.90941		Fluoranthene
12.253	MM	334.87701	7.52983	2521.56751		Pyrene
15.084	BV	377.89438	6.59466	2492.08549		Benzo(a)anthracene
15.584	VB	448.13257	5.42929	2433.04015		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.823	MM	322.01157	15.00203	4830.82609		Benzo(b)fluoranthene
18.780	MF	969.84100	2.55700	2479.88194		Benzo(k)fluoranthene
19.729	FM	532.33307	4.66865	2485.27878		Benzo(a)pyrene
21.349	MF	158.06801	31.38061	4960.27030		Dibenz(a,h)anthracene
22.131	MF	312.19437	15.73373	4911.98087		Benzo(g,h,i)perylene
22.642	FM	243.71762	10.29974	2510.22694		Indeno(1,2,3-cd)pyrene

Totals : 2.10822e5

Results obtained with enhanced integrator!

*** End of Report ***

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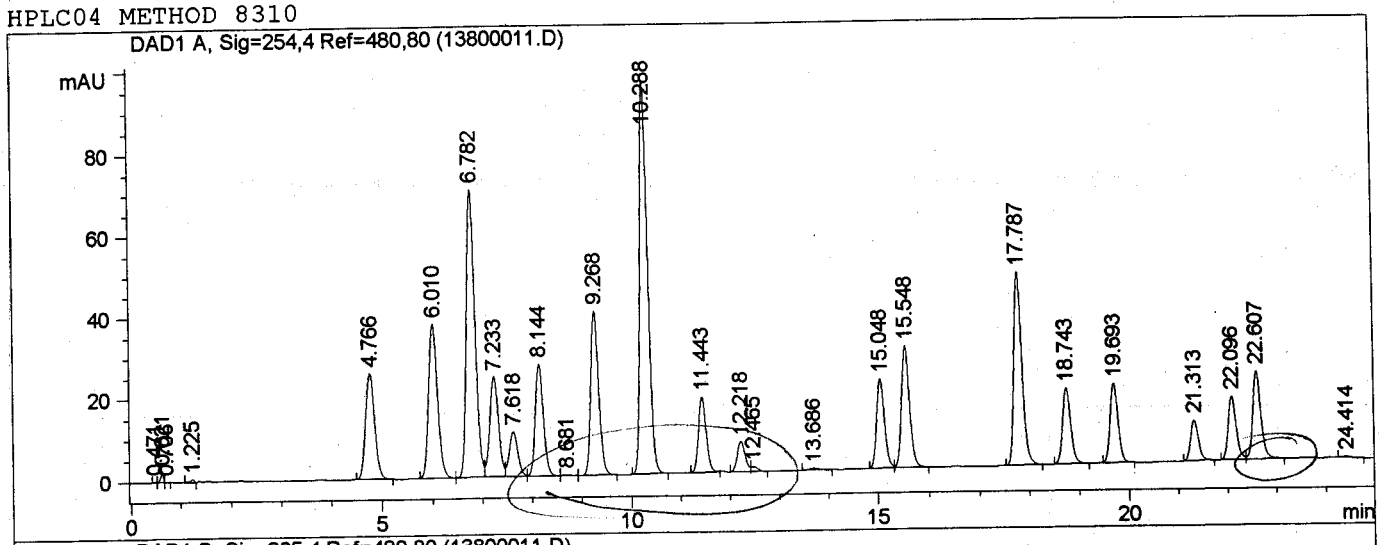
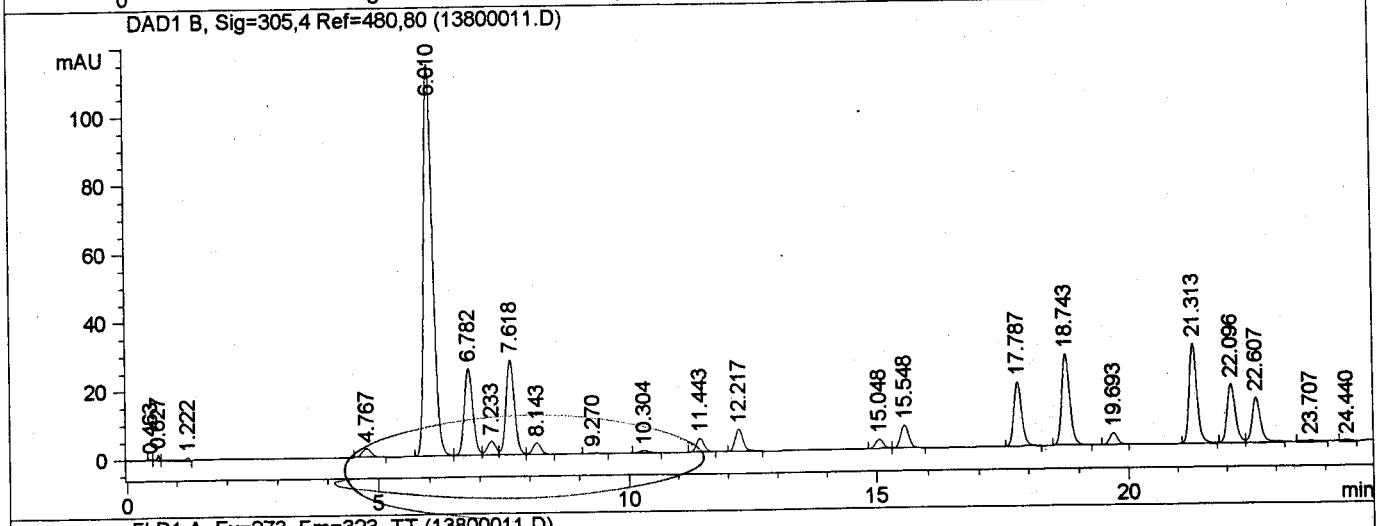
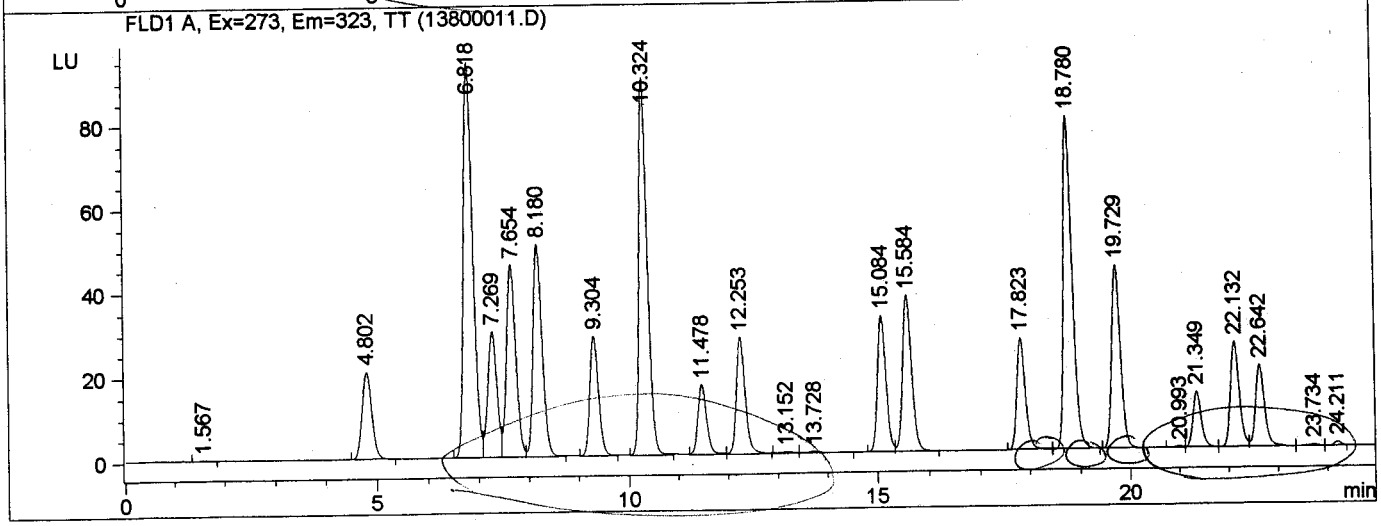
Injection Date : 5/18/2006 10:31:01 PM
Sample Name : ICAL,S3060
Acq. Operator :
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\051806.S
Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL
HPLC04 METHOD 8310

Seq. Line : 11
Location : Vial 11
Inj : 1
Inj Volume : 10 µl







External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.766	BB	323.77454	77.04174	2.49442e4		Naphthalene
6.010	BP	462.20984	108.96101	5.03629e4		Acenaphthylene
6.782	VV	839.48529	118.81516	9.97436e4		1-Methylnaphthalene (UV)
7.233	VV	297.53644	87.16540	2.59349e4		2-Methylnaphthalene
7.618	VV	131.16444	199.69775	2.61932e4		Acenaphthene
8.144	VB	313.39435	15.89704	4982.04190		Fluorene
9.268	VP	448.48541	5.57580	2500.66337		Phenanthrene
10.288	BB	1061.97949	2.46834	2621.32432		Anthracene
11.443	BB	203.57274	24.34938	4956.87079		Fluoranthene
12.218	BV	83.91055	29.88551	2507.70959		Pyrene
15.048	BV	236.18423	10.93811	2583.40986		Benzo(a)anthracene
15.548	VB	334.09467	7.50657	2507.90488		Chrysene
17.787	BB	532.37317	9.38338	4995.45759		Benzo(b)fluoranthene
18.743	BB	208.88004	12.33952	2577.47867		Benzo(k)fluoranthene
19.693	BB	220.13969	11.52826	2537.82663		Benzo(a)pyrene
21.313	BP	110.60422	46.58184	5152.14743		Dibenz(a,h)anthracene
22.096	BV	181.34886	28.08822	5093.76675		Benzo(g,h,i)perylene
22.607	VB	252.14905	10.52056	2652.74918		Indeno(1,2,3-cd)pyrene

Totals : 2.72848e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.010	BV	1390.57104	35.88040	4.98942e4		Acenaphthylene
6.782	VV	304.35931	328.86140	1.00092e5		1-Methylnaphthalene (UV)

Totals : 1.49986e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.802	BB	274.47531	85.88502	2.35733e4		Naphthalene
6.818	BV	1198.31677	78.02871	9.35031e4		1-Methylnaphthalene (F)
7.269	VV	383.06503	63.11886	2.41786e4		2-Methylnaphthalene
7.654	VV	579.99280	41.70325	2.41876e4		Acenaphthene
8.180	VB	625.75739	7.65378	4789.40940		Fluorene
9.304	BB	344.67456	7.19843	2481.11505		Phenanthrene
10.324	BB	1075.74207	2.42800	2611.90128		Anthracene
11.478	BV	202.66354	24.49057	4963.34569		Fluoranthene
12.253	VB	346.76657	7.52516	2609.47292		Pyrene
15.084	BV	377.89438	6.59224	2491.17223		Benzo(a)anthracene
15.584	VB	448.13257	5.41370	2426.05403		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.823	BV	322.26624	14.95346	4818.99407		Benzo(b)fluoranthene
18.780	VB	971.35138	2.55497	2481.77271		Benzo(k)fluoranthene
19.729	BB	534.24500	4.66449	2491.98169		Benzo(a)pyrene
21.349	VV	159.44664	31.36788	5001.50353		Dibenz(a,h)anthracene
22.132	VV	312.34949	15.69181	4901.32775		Benzo(g,h,i)perylene
22.642	VP	247.08812	10.31012	2547.50745		Indeno(1,2,3-cd)pyrene
Totals :				2.10058e5		

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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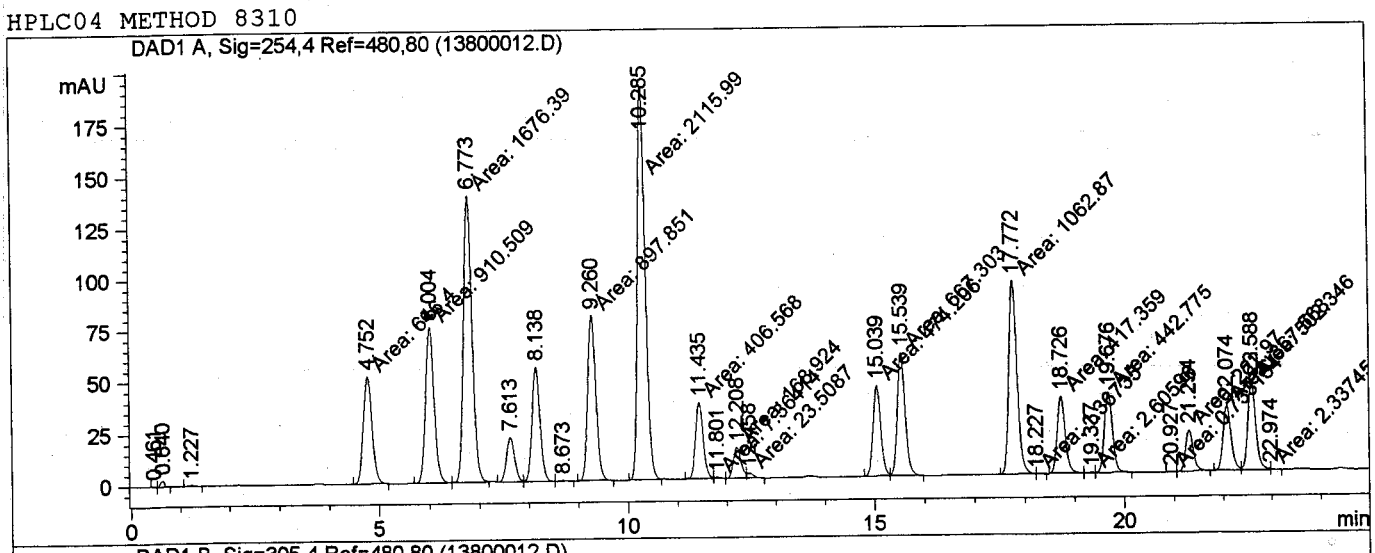
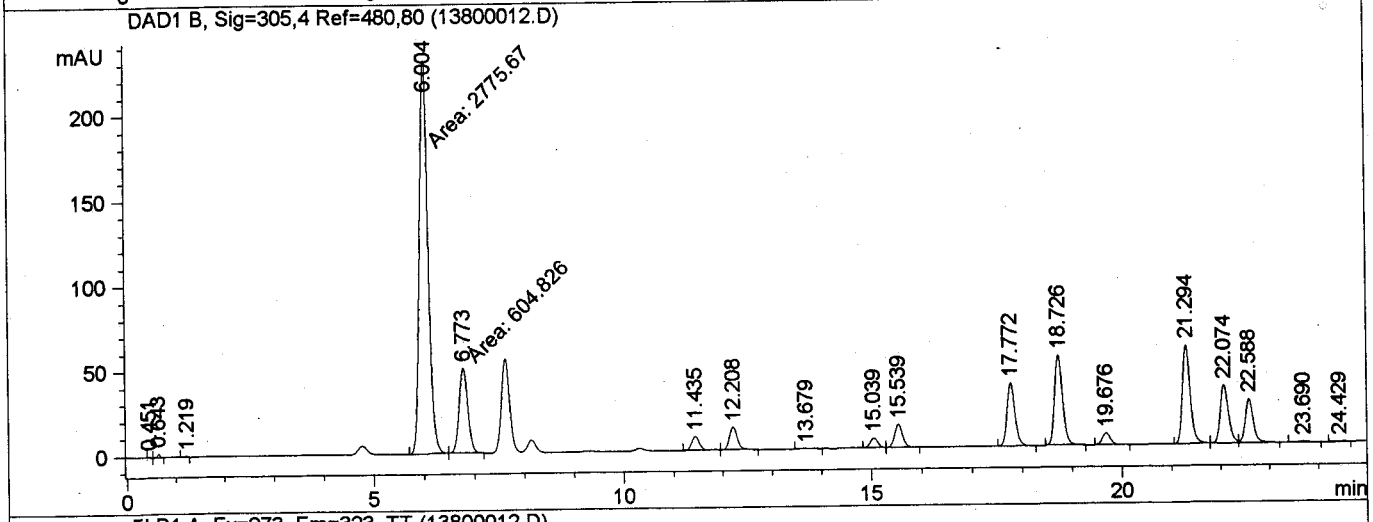
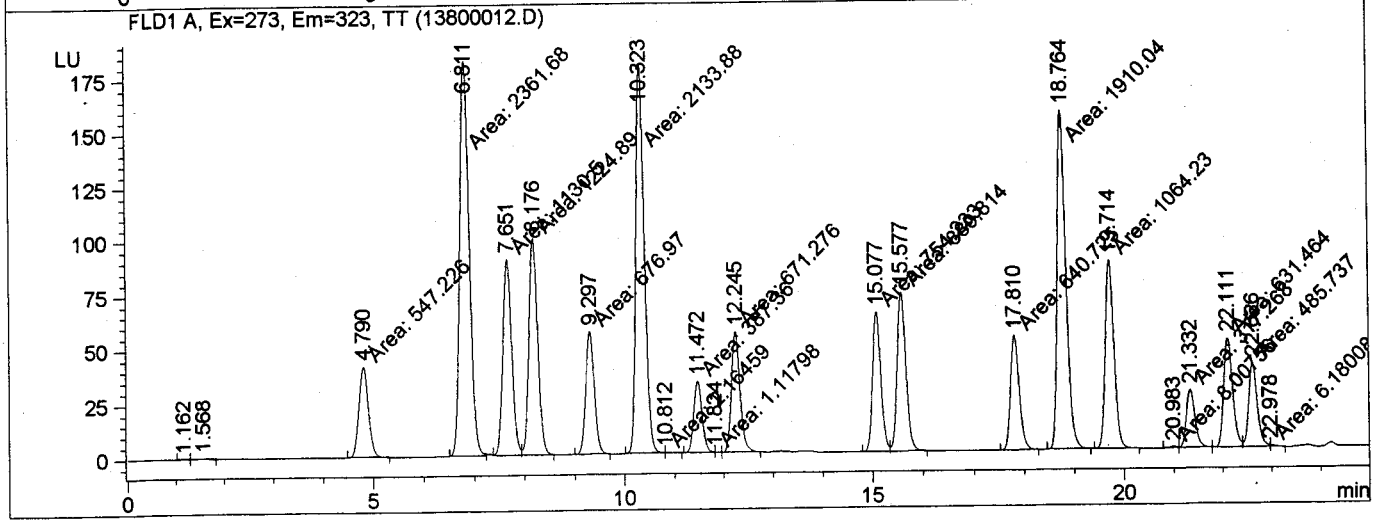
Injection Date	: 5/18/2006 11:02:39 PM	Seq. Line	: 12
Sample Name	: ICAL,S3059	Location	: Vial 12
Acq. Operator	:	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 5/22/2006 3:28:39 PM (modified after loading)		

HPLC04 METHOD 8310







JM 22MAY2006

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, May 22, 2006 3:28:38 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.752	MF	646.40033	77.07612	4.98220e4		Naphthalene
6.004	FM	910.50854	109.18851	9.94171e4		Acenaphthylene
6.773	MF	1676.38977	118.98882	1.99472e5		1-Methylnaphthalene (UV)
7.233		-	-	-		2-Methylnaphthalene
7.613	VV	254.87729	198.40751	5.05696e4		Acenaphthene
8.138	VV	624.78467	15.90421	9936.70941		Fluorene
9.260	MM	897.85052	5.57146	5002.33922		Phenanthrene
10.285	MM	2115.98950	2.44709	5178.02103		Anthracene
11.435	MF	406.56757	24.35786	9903.11580		Fluoranthene
12.208	MF	168.92415	29.76318	5027.71993		Pyrene
15.039	MF	474.20624	10.83458	5137.82420		Benzo(a)anthracene
15.539	FM	667.30255	7.48652	4995.77581		Chrysene
17.772	MF	1062.87402	9.37069	9959.86236		Benzo(b)fluoranthene
18.726	MF	417.35922	12.22679	5102.96369		Benzo(k)fluoranthene
19.676	FM	442.77490	11.46298	5075.52159		Benzo(a)pyrene
21.294	FM	222.97006	46.12782	1.02851e4		Dibenz(a,h)anthracene
22.074	MF	367.56784	27.89437	1.02531e4		Benzo(g,h,i)perylene
22.588	MF	502.34595	10.39287	5220.81462		Indeno(1,2,3-cd)pyrene

Totals : 4.90359e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.004	MF	2775.66528	35.86107	9.95383e4		Acenaphthylene
6.773	FM	604.82648	328.74202	1.98832e5		1-Methylnaphthalene (UV)

Totals : 2.98370e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.790	MM	547.22638	87.08962	4.76577e4		Naphthalene
6.811	MF	2361.67969	83.32765	1.96793e5		1-Methylnaphthalene (F)
7.269		-	-	-		2-Methylnaphthalene
7.651	MF	1130.49866	43.28515	4.89338e4		Acenaphthene
8.176	FM	1224.89038	8.04138	9849.80577		Fluorene
9.297	MM	676.96960	7.24241	4902.89295		Phenanthrene
10.323	MF	2133.87500	2.41150	5145.83830		Anthracene
11.472	MF	387.35989	24.72890	9578.98339		Fluoranthene
12.245	FM	671.27612	7.50107	5035.28740		Pyrene
15.077	MF	754.23340	6.59027	4970.60031		Benzo(a)anthracene
15.577	FM	889.81403	5.44895	4848.55299		Chrysene

Data File G:\HPLC4\DATA\13800012.D

Sample Name: ICAL,S3059

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.810	MF	640.72485	15.04099	9637.13468		Benzo(b)fluoranthene
18.764	MF	1910.04431	2.56418	4897.69612		Benzo(k)fluoranthene
19.714	FM	1064.23083	4.67173	4971.79629		Benzo(a)pyrene
21.332	MF	317.26797	31.32419	9938.16173		Dibenz(a,h)anthracene
22.111	MF	631.46387	15.72006	9926.65107		Benzo(g,h,i)perylene
22.626	MF	485.73682	10.27600	4991.42935		Indeno(1,2,3-cd)pyrene
Totals :				3.82080e5		

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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*** End of Report ***

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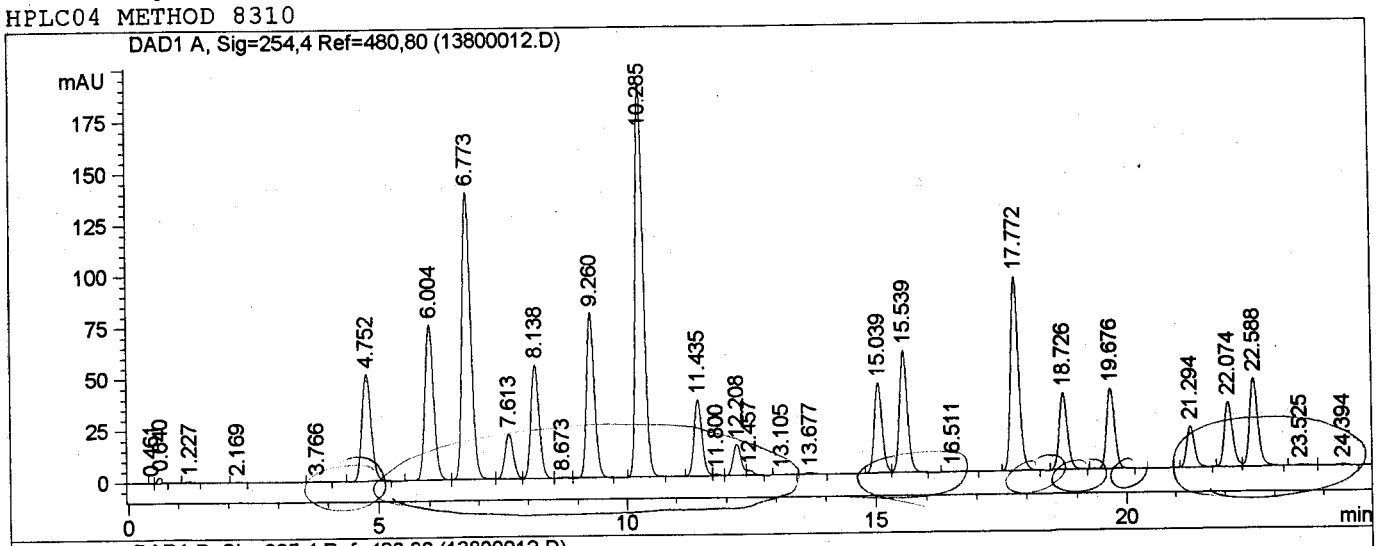
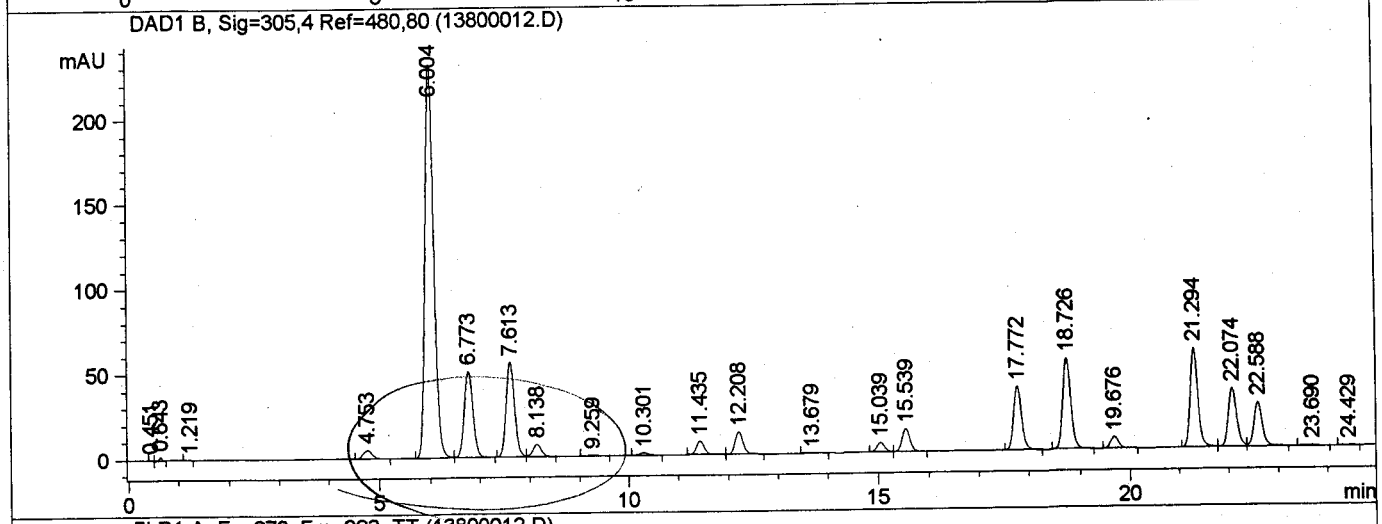
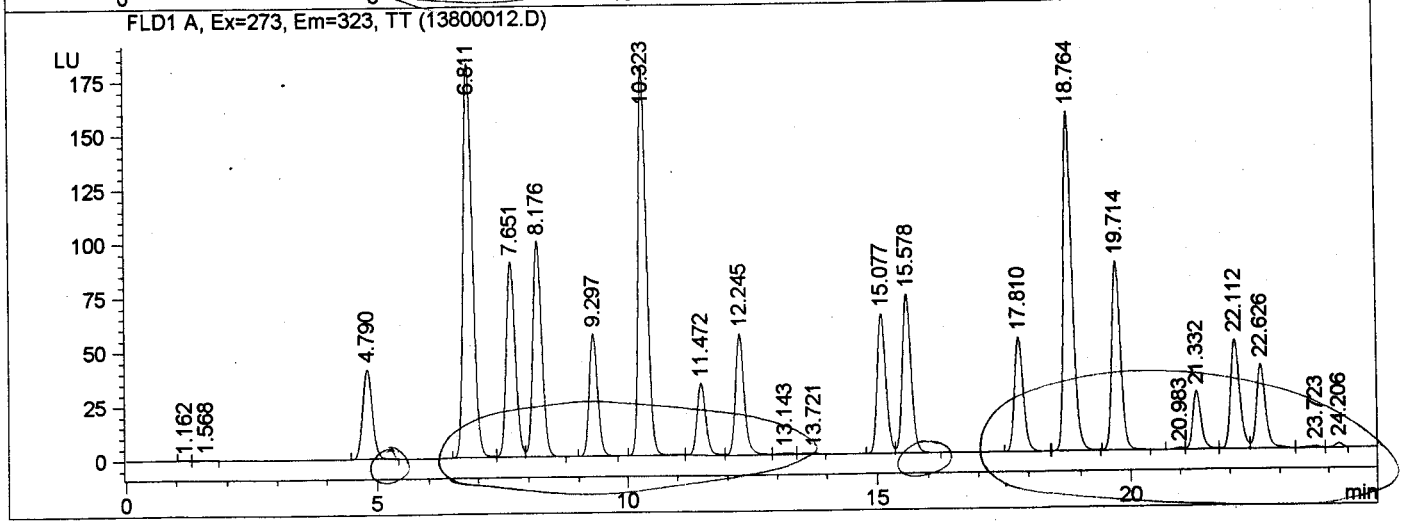
Injection Date : 5/18/2006 11:02:39 PM
Sample Name : ICAL,S3059
Acq. Operator :
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\051806.S
Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL
HPLC04 METHOD 8310

Seq. Line : 12
Location : Vial 12
Inj : 1
Inj Volume : 10 µl







External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.752	BB	647.11890	77.07988	4.98798e4		Naphthalene
6.004	BV	912.25122	109.18989	9.96086e4		Acenaphthylene
6.773	VV	1680.09778	118.97171	1.99884e5		1-Methylnaphthalene (UV)
7.280		-	-	-		2-Methylnaphthalene
7.613	VV	254.87729	200.01456	5.09792e4		Acenaphthene
8.138	VV	624.78467	15.90159	9935.07086		Fluorene
9.260	VP	897.27557	5.57725	5004.33135		Phenanthrene
10.285	BB	2119.75391	2.46996	5235.70870		Anthracene
11.435	BV	408.83698	24.33764	9950.12774		Fluoranthene
12.208	VV	170.09651	29.83382	5074.62814		Pyrene
15.039	BV	473.34891	10.92504	5171.35520		Benzo(a)anthracene
15.539	VB	667.50586	7.50261	5008.03940		Chrysene
17.772	BB	1063.61365	9.37834	9974.92650		Benzo(b)fluoranthene
18.726	BB	418.83893	12.31779	5159.16865		Benzo(k)fluoranthene
19.676	BB	446.29416	11.50956	5136.65018		Benzo(a)pyrene
21.294	BB	225.02155	46.44878	1.04520e4		Dibenz(a,h)anthracene
22.074	BV	371.40533	28.03933	1.04140e4		Benzo(g,h,i)perylene
22.588	VB	515.19666	10.50293	5411.07420		Indeno(1,2,3-cd)pyrene
Totals :				4.92279e5		

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.004	BV	2778.81055	35.87769	9.96973e4		Acenaphthylene
6.773	VB	611.06848	329.06802	2.01083e5		1-Methylnaphthalene (UV)
Totals :				3.00780e5		

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.790	PB	547.48273	86.05693	4.71147e4		Naphthalene
6.811	BV	2369.09570	78.21735	1.85304e5		1-Methylnaphthalene (F)
7.335		-	-	-		2-Methylnaphthalene
7.651	VV	1133.23621	41.75800	4.73217e4		Acenaphthene
8.176	VB	1233.21008	7.66789	9456.11427		Fluorene
9.297	BB	689.82300	7.21118	4974.43826		Phenanthrene
10.323	BV	2161.75854	2.42917	5251.28847		Anthracene
11.472	VV	409.37646	24.49725	1.00286e4		Fluoranthene
12.245	VB	697.09406	7.52831	5247.94082		Pyrene
15.077	BV	753.48712	6.59403	4968.51811		Benzo(a)anthracene
15.578	VB	891.79449	5.41959	4833.16022		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.810	BV	642.02924	14.95403	9600.92695		Benzo(b)fluoranthene
18.764	VB	1914.31885	2.55862	4898.01258		Benzo(k)fluoranthene
19.714	BB	1070.08130	4.66813	4995.27412		Benzo(a)pyrene
21.332	VV	322.53784	31.32121	1.01023e4		Dibenz(a,h)anthracene
22.112	VV	634.13263	15.67801	9941.93455		Benzo(g,h,i)perylene
22.626	VV	498.78516	10.29754	5136.25837		Indeno(1,2,3-cd)pyrene
Totals :				3.69175e5		

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 187065 HPLC Water
EPA 8310

Inst : HPLC04
Calnum : 296199754001 Cal Date: 18-MAY-2006

ICV 296199754015 (13800015 19-MAY-2006) stds: S3051

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1	0.0130	0.0134	5000	5126	ug/L	3	15	
Acenaphthylene	1	0.0093	0.0100	10000	10680	ug/L	7	15	
Acenaphthene	1	0.0052	0.0057	5000	5392	ug/L	8	15	
Fluorene	1	0.0627	0.0646	1000	1028	ug/L	3	15	
Phenanthrene	1	0.1800	0.1815	500.0	503.1	ug/L	1	15	
Anthracene	1	0.4248	0.4384	500.0	513.4	ug/L	3	15	
Fluoranthene	1	0.0409	0.0422	1000	1034	ug/L	3	15	
Pyrene	1	0.0342	0.0343	500.0	508.5	ug/L	2	15	
Benzo(a)anthracene	1	0.0943	0.0969	500.0	511.5	ug/L	2	15	
Chrysene	1	0.1335	0.1357	500.0	505.0	ug/L	1	15	
Benzo(b)fluoranthene	1	0.1059	0.1090	1000	1023	ug/L	2	15	
Benzo(k)fluoranthene	1	0.0821	0.0850	500.0	510.7	ug/L	2	15	
Benzo(a)pyrene	1	0.0870	0.0890	500.0	508.4	ug/L	2	15	
Dibenz(a,h)anthracene	1	0.0212	0.0222	1000	1017	ug/L	2	15	
Benzo(g,h,i)perylene	1	0.0351	0.0359	1000	1004	ug/L	0	15	
Indeno(1,2,3-cd)pyrene	1	0.0976	0.1026	500.0	515.2	ug/L	3	15	
Acenaphthylene	2	0.0279	0.0285	10000	10180	ug/L	2	15	
Naphthalene	3	0.0110	0.0113	5000	5130	ug/L	3	15	
Acenaphthene	3	0.0233	0.0248	5000	5302	ug/L	6	15	
Fluorene	3	0.1263	0.1289	1000	1020	ug/L	2	15	
Phenanthrene	3	0.1362	0.1386	500.0	508.6	ug/L	2	15	
Anthracene	3	0.4263	0.4399	500.0	513.7	ug/L	3	15	
Fluoranthene	3	0.0387	0.0407	1000	1050	ug/L	5	15	
Pyrene	3	0.1332	0.1384	500.0	517.2	ug/L	3	15	
Benzo(a)anthracene	3	0.1515	0.1558	500.0	512.8	ug/L	3	15	
Chrysene	3	0.1803	0.1841	500.0	509.6	ug/L	2	15	
Benzo(b)fluoranthene	3	0.0643	0.0664	1000	1027	ug/L	3	15	
Benzo(k)fluoranthene	3	0.3904	0.4029	500.0	513.5	ug/L	3	15	
Benzo(a)pyrene	3	0.2132	0.2200	500.0	513.9	ug/L	3	15	
Dibenz(a,h)anthracene	3	0.0311	0.0322	1000	1025	ug/L	3	15	
Benzo(g,h,i)perylene	3	0.0613	0.0619	1000	1004	ug/L	0	15	
Indeno(1,2,3-cd)pyrene	3	0.0971	0.1010	500.0	517.9	ug/L	4	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187065 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: L IDF : 1.0
Seqnum : 296225434002 File : 15600002 Time : 05-JUN-2006 13:46
Cal : 296199754001 Caldate : 18-MAY-2006
Standards: S3190

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0128	2500	2418	ug/L	-3	15	
Acenaphthylene	1	0.0093	0.0090	5000	4666	ug/L	-7	15	
Acenaphthene	1	0.0052	0.0051	2500	2309	ug/L	-8	15	
Fluorene	1	0.0627	0.0608	500.0	480.7	ug/L	-4	15	
Phenanthrene	1	0.1800	0.1748	250.0	240.8	ug/L	-4	15	
Anthracene	1	0.4248	0.3956	250.0	229.1	ug/L	-8	15	
Fluoranthene	1	0.0409	0.0395	500.0	482.7	ug/L	-3	15	
Pyrene	1	0.0342	0.0302	250.0	224.1	ug/L	-10	15	
Benzo(a)anthracene	1	0.0943	0.0881	250.0	233.0	ug/L	-7	15	
Chrysene	1	0.1335	0.1299	250.0	239.9	ug/L	-4	15	
Benzo(b)fluoranthene	1	0.1059	0.1026	500.0	479.8	ug/L	-4	15	
Benzo(k)fluoranthene	1	0.0821	0.0787	250.0	237.4	ug/L	-5	15	
Benzo(a)pyrene	1	0.0870	0.0814	250.0	235.9	ug/L	-6	15	
Dibenz(a,h)anthracene	1	0.0212	0.0201	500.0	474.6	ug/L	-5	15	
Benzo(g,h,i)perylene	1	0.0351	0.0331	500.0	479.0	ug/L	-4	15	
Indeno(1,2,3-cd)pyrene	1	0.0976	0.0889	250.0	226.0	ug/L	-10	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0084	50000	49600	ug/L	-1	15	
Acenaphthylene	2	0.0279	0.0272	5000	4818	ug/L	-4	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	49260	ug/L	-1	15	
Naphthalene	3	0.0110	0.0116	2500	2591	ug/L	4	15	
Acenaphthene	3	0.0233	0.0240	2500	2469	ug/L	-1	15	
Fluorene	3	0.1263	0.1263	500.0	483.3	ug/L	-3	15	
Phenanthrene	3	0.1362	0.1406	250.0	256.4	ug/L	3	15	
Anthracene	3	0.4263	0.4085	250.0	237.6	ug/L	-5	15	
Fluoranthene	3	0.0387	0.0392	500.0	504.3	ug/L	1	15	
Pyrene	3	0.1332	0.1398	250.0	262.2	ug/L	5	15	
Benzo(a)anthracene	3	0.1515	0.1500	250.0	244.8	ug/L	-2	15	
Chrysene	3	0.1803	0.1860	250.0	253.5	ug/L	1	15	
Benzo(b)fluoranthene	3	0.0643	0.0649	500.0	497.0	ug/L	-1	15	
Benzo(k)fluoranthene	3	0.3904	0.3902	250.0	241.5	ug/L	-3	15	
Benzo(a)pyrene	3	0.2132	0.2121	250.0	246.2	ug/L	-2	15	
Dibenz(a,h)anthracene	3	0.0311	0.0305	500.0	490.2	ug/L	-2	15	
Benzo(g,h,i)perylene	3	0.0613	0.0617	500.0	512.7	ug/L	3	15	
Indeno(1,2,3-cd)pyrene	3	0.0971	0.0910	250.0	232.3	ug/L	-7	15	
1-Methylnaphthalene (F)	3	0.0122	0.0128	50000	53630	ug/L	7	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187065 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: M IDF : 1.0
Seqnum : 296225434016 File : 15600016 Time : 05-JUN-2006 21:09
Cal : 296199754001 Caldate : 18-MAY-2006
Standards: S3192

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0133	5000	5107	ug/L	2	15	
Acenaphthylene	1	0.0093	0.0094	10000	10100	ug/L	1	15	
Acenaphthene	1	0.0052	0.0053	5000	4980	ug/L	0	15	
Fluorene	1	0.0627	0.0639	1000	1017	ug/L	2	15	
Phenanthrene	1	0.1800	0.1833	500.0	508.0	ug/L	2	15	
Anthracene	1	0.4248	0.4110	500.0	481.0	ug/L	-4	15	
Fluoranthene	1	0.0409	0.0415	1000	1018	ug/L	2	15	
Pyrene	1	0.0342	0.0326	500.0	483.7	ug/L	-3	15	
Benzo(a)anthracene	1	0.0943	0.0925	500.0	488.3	ug/L	-2	15	
Chrysene	1	0.1335	0.1372	500.0	510.6	ug/L	2	15	
Benzo(b)fluoranthene	1	0.1059	0.1081	1000	1014	ug/L	1	15	
Benzo(k)fluoranthene	1	0.0821	0.0844	500.0	507.0	ug/L	1	15	
Benzo(a)pyrene	1	0.0870	0.0854	500.0	487.9	ug/L	-2	15	
Dibenz(a,h)anthracene	1	0.0212	0.0212	1000	972.5	ug/L	-3	15	
Benzo(g,h,i)perylene	1	0.0351	0.0348	1000	975.2	ug/L	-2	15	
Indeno(1,2,3-cd)pyrene	1	0.0976	0.0944	500.0	474.3	ug/L	-5	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0085	50000	50340	ug/L	1	15	
Acenaphthylene	2	0.0279	0.0285	10000	10170	ug/L	2	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	49820	ug/L	0	15	
Naphthalene	3	0.0110	0.0115	5000	5196	ug/L	4	15	
Acenaphthene	3	0.0233	0.0239	5000	5113	ug/L	2	15	
Fluorene	3	0.1263	0.1302	1000	1031	ug/L	3	15	
Phenanthrene	3	0.1362	0.1412	500.0	518.3	ug/L	4	15	
Anthracene	3	0.4263	0.4191	500.0	489.4	ug/L	-2	15	
Fluoranthene	3	0.0387	0.0402	1000	1037	ug/L	4	15	
Pyrene	3	0.1332	0.1342	500.0	501.7	ug/L	0	15	
Benzo(a)anthracene	3	0.1515	0.1517	500.0	499.0	ug/L	0	15	
Chrysene	3	0.1803	0.1876	500.0	519.3	ug/L	4	15	
Benzo(b)fluoranthene	3	0.0643	0.0666	1000	1031	ug/L	3	15	
Benzo(k)fluoranthene	3	0.3904	0.4036	500.0	514.3	ug/L	3	15	
Benzo(a)pyrene	3	0.2132	0.2116	500.0	494.4	ug/L	-1	15	
Dibenz(a,h)anthracene	3	0.0311	0.0314	1000	998.3	ug/L	0	15	
Benzo(g,h,i)perylene	3	0.0613	0.0611	1000	990.8	ug/L	-1	15	
Indeno(1,2,3-cd)pyrene	3	0.0971	0.0950	500.0	486.9	ug/L	-3	15	
1-Methylnaphthalene (F)	3	0.0122	0.0124	50000	51970	ug/L	4	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187065 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: H IDF : 1.0
Seqnum : 296225434031 File : 15600031 Time : 06-JUN-2006 05:03
Cal : 296199754001 Caldate : 18-MAY-2006
Standards: S2954

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0130	10000	9980	ug/L	0	15	
Acenaphthylene	1	0.0093	0.0092	20000	19920	ug/L	0	15	
Acenaphthene	1	0.0052	0.0052	10000	9914	ug/L	-1	15	
Fluorene	1	0.0627	0.0623	2000	1989	ug/L	-1	15	
Phenanthrene	1	0.1800	0.1786	1000	992.6	ug/L	-1	15	
Anthracene	1	0.4248	0.4084	1000	960.4	ug/L	-4	15	
Fluoranthene	1	0.0409	0.0405	2000	1988	ug/L	-1	15	
Pyrene	1	0.0342	0.0333	1000	985.6	ug/L	-1	15	
Benzo(a)anthracene	1	0.0943	0.0931	1000	982.9	ug/L	-2	15	
Chrysene	1	0.1335	0.1332	1000	995.3	ug/L	0	15	
Benzo(b)fluoranthene	1	0.1059	0.1063	2000	1997	ug/L	0	15	
Benzo(k)fluoranthene	1	0.0821	0.0830	1000	994.9	ug/L	-1	15	
Benzo(a)pyrene	1	0.0870	0.0853	1000	968.9	ug/L	-3	15	
Dibenz(a,h)anthracene	1	0.0212	0.0217	2000	1967	ug/L	-2	15	
Benzo(g,h,i)perylene	1	0.0351	0.0345	2000	1906	ug/L	-5	15	
Indeno(1,2,3-cd)pyrene	1	0.0976	0.0970	1000	969.2	ug/L	-3	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0084	50000	49710	ug/L	-1	15	
Acenaphthylene	2	0.0279	0.0278	20000	19930	ug/L	0	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	49580	ug/L	-1	15	
Naphthalene	3	0.0110	0.0110	10000	10020	ug/L	0	15	
Acenaphthene	3	0.0233	0.0232	10000	10060	ug/L	1	15	
Fluorene	3	0.1263	0.1250	2000	2010	ug/L	1	15	
Phenanthrene	3	0.1362	0.1360	1000	1001	ug/L	0	15	
Anthracene	3	0.4263	0.4141	1000	968.8	ug/L	-3	15	
Fluoranthene	3	0.0387	0.0389	2000	2010	ug/L	1	15	
Pyrene	3	0.1332	0.1324	1000	987.7	ug/L	-1	15	
Benzo(a)anthracene	3	0.1515	0.1508	1000	995.9	ug/L	0	15	
Chrysene	3	0.1803	0.1810	1000	1009	ug/L	1	15	
Benzo(b)fluoranthene	3	0.0643	0.0651	2000	2021	ug/L	1	15	
Benzo(k)fluoranthene	3	0.3904	0.3941	1000	1018	ug/L	2	15	
Benzo(a)pyrene	3	0.2132	0.2095	1000	981.8	ug/L	-2	15	
Dibenz(a,h)anthracene	3	0.0311	0.0315	2000	1992	ug/L	0	15	
Benzo(g,h,i)perylene	3	0.0613	0.0603	2000	1934	ug/L	-3	15	
Indeno(1,2,3-cd)pyrene	3	0.0971	0.0957	1000	983.0	ug/L	-2	15	
1-Methylnaphthalene (F)	3	0.0122	0.0121	50000	50640	ug/L	1	15	

Confirmation Report for 187065 HPLC Water
Curtis & Tompkins Laboratories

Units: ug/L

Lab ID	Client ID	Analyte	Result	Confirmation	RPD	%D
187065-012	1349MW100	Acenaphthene	3.626	3.339	8	-8
187065-012	1349MW100	Fluorene	7.548	5.298	35	-30
187065-012	1349MW100	Phenanthrene	4.874	3.365	37	-31
187065-012	1349MW100	Anthracene	0.2023 J	0.8187	121	305
187065-012	1349MW100	Fluoranthene	1.552	5.092	107	228
187065-012	1349MW100	Pyrene	0.3828	11.06	187	2789
187065-012	1349MW100	Benzo(a)anthracene	0.1131	0.1452	25	28
187065-013	DUP0524063A	Acenaphthene	4.284	3.739	14	-13
187065-013	DUP0524063A	Fluorene	8.366	5.689	38	-32
187065-013	DUP0524063A	Phenanthrene	5.756	4.027	35	-30
187065-013	DUP0524063A	Anthracene	0.2792 J	1.048	116	275
187065-013	DUP0524063A	Fluoranthene	1.788	6.835	117	282
187065-013	DUP0524063A	Pyrene	0.4810	14.93	188	3003
187065-013	DUP0524063A	Benzo(a)anthracene	0.1407	0.1982	34	41
187065-013	DUP0524063A	Chrysene	0.1015	0.3923	118	286

J=estimated

SEQUENCE SUMMARY FOR 187065 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296199754 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 18-MAY-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	13800001	X	PRIMER - 138			18-MAY-2006 17:14	1.0						
002	13800002	X	PRIMER			18-MAY-2006 17:46	1.0						
003	13800003	X	IB - 138			18-MAY-2006 18:17	1.0						
004	13800004	X	IB			18-MAY-2006 18:49	1.0						
005	13800005	X	IB			18-MAY-2006 19:21	1.0						
006	13800006	ICAL				18-MAY-2006 19:52	1.0					1	
007	13800007	ICAL				18-MAY-2006 20:24	1.0					2	
008	13800008	ICAL				18-MAY-2006 20:56	1.0					3	
009	13800009	ICAL				18-MAY-2006 21:27	1.0					4	
010	13800010	ICAL				18-MAY-2006 21:59	1.0					5	
011	13800011	ICAL				18-MAY-2006 22:31	1.0					6	
012	13800012	ICAL				18-MAY-2006 23:02	1.0					7	
013	13800013	X	IB			18-MAY-2006 23:34	1.0						
014	13800014	X	IB			19-MAY-2006 00:05	1.0						
015	13800015	ICV	ICV			19-MAY-2006 00:37	1.0		10			8	267
016	13800016	X	ICV			19-MAY-2006 01:09	1.0					8	
017	13800017	X	IB			19-MAY-2006 01:40	1.0						

Stds used: 1=S3065 2=S3064 3=S3063 4=S3062 5=S3061 6=S3060 7=S3059 8=S3051

SEQUENCE SUMMARY FOR 187065 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296225434 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 05-JUN-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	15600001	X	IB - 156			05-JUN-2006 13:14	1.0						
002	15600002	CCV	L			05-JUN-2006 13:46	1.0	1.0			10	1	
003	15600003	X	CCV			05-JUN-2006 14:17	1.0					1	
004	15600004	X	IB			05-JUN-2006 14:49	1.0						
005	15600005	LCS	QC342229	113988	Water	05-JUN-2006 15:21	1.0	0.002			10		
006	15600006	BLANK	QC342228	113988	Water	05-JUN-2006 15:52	1.0	0.002			10		
007	15600007	MSS	187086-001	113988	Water	05-JUN-2006 16:24	1.0	0.00198	2		10		
008	15600008	SAMPLE	187086-002	113988	Water	05-JUN-2006 16:56	1.0	0.00198			10		
009	15600009	SAMPLE	187086-003	113988	Water	05-JUN-2006 17:27	1.0	0.001887			10		
010	15600010	SAMPLE	187086-004	113988	Water	05-JUN-2006 17:59	1.0	0.001887			10		
011	15600011	SAMPLE	187086-005	113988	Water	05-JUN-2006 18:30	1.0	0.00198			10		
012	15600012	SAMPLE	187086-006	113988	Water	05-JUN-2006 19:02	1.0	0.002			10		
013	15600013	MS	QC342230	113988	Water	05-JUN-2006 19:34	1.0	0.001923		2	10		
014	15600014	MSD	QC342231	113988	Water	05-JUN-2006 20:05	1.0	0.00198		2	10		
015	15600015	X	IB			05-JUN-2006 20:37	1.0						
016	15600016	CCV	M			05-JUN-2006 21:09	1.0	1.0			10	2	
017	15600017	X	CCV			05-JUN-2006 21:40	1.0					2	
018	15600018	X	IB			05-JUN-2006 22:12	1.0						
019	15600019	SAMPLE	187086-007	113988	Water	05-JUN-2006 22:43	1.0	0.00198			10		
020	15600020	SAMPLE	187086-008	113988	Water	05-JUN-2006 23:15	1.0	0.002			10		
021	15600021	SAMPLE	187086-009	113988	Water	05-JUN-2006 23:47	1.0	0.00198			10		
022	15600022	SAMPLE	187065-008	113988	Water	06-JUN-2006 00:18	1.0	0.001887			10		
023	15600023	SAMPLE	187065-009	113988	Water	06-JUN-2006 00:50	1.0	0.001887			10		
024	15600024	SAMPLE	187065-010	113988	Water	06-JUN-2006 01:22	1.0	0.001887			10		
025	15600025	SAMPLE	187065-011	113988	Water	06-JUN-2006 01:53	1.0	0.001887			10		
026	15600026	SAMPLE	187065-012	113988	Water	06-JUN-2006 02:25	1.0	0.002	1		10		1:PYR=5529.31
027	15600027	SAMPLE	187065-013	113988	Water	06-JUN-2006 02:57	1.0	0.001961	1		10		1:PYR=7612.16
028	15600028	X	IB			06-JUN-2006 03:28	1.0						
029	15600029	SAMPLE	187061-015	113889	Water	06-JUN-2006 04:00	4.0	0.00198		3	10		
030	15600030	X	IB			06-JUN-2006 04:31	1.0						
031	15600031	CCV	H			06-JUN-2006 05:03	1.0	1.0			10	3	

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Stds used: 1=S3190 2=S3192 3=S2954

SEQUENCE SUMMARY FOR 187065 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296225434 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 05-JUN-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	15600032	X	CCV			06-JUN-2006 05:35	1.0				3	
033	15600033	X	IB			06-JUN-2006 06:06	1.0					

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Stds used: 1=S3190 2=S3192 3=S2954

REPORTING SUMMARY FOR 187065 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
187065-008	Naphthalene	HPLC04	1	06/06/06 00:18
187065-008	Acenaphthylene	HPLC04	1	06/06/06 00:18
187065-008	Acenaphthene	HPLC04	1	06/06/06 00:18
187065-008	Fluorene	HPLC04	1	06/06/06 00:18
187065-008	Phenanthrene	HPLC04	3	06/06/06 00:18
187065-008	Anthracene	HPLC04	3	06/06/06 00:18
187065-008	Fluoranthene	HPLC04	3	06/06/06 00:18
187065-008	Pyrene	HPLC04	3	06/06/06 00:18
187065-008	Benzo(a)anthracene	HPLC04	3	06/06/06 00:18
187065-008	Chrysene	HPLC04	3	06/06/06 00:18
187065-008	Benzo(b)fluoranthene	HPLC04	3	06/06/06 00:18
187065-008	Benzo(k)fluoranthene	HPLC04	3	06/06/06 00:18
187065-008	Benzo(a)pyrene	HPLC04	3	06/06/06 00:18
187065-008	Dibenz(a,h)anthracene	HPLC04	3	06/06/06 00:18
187065-008	Benzo(g,h,i)perylene	HPLC04	3	06/06/06 00:18
187065-008	Indeno(1,2,3-cd)pyrene	HPLC04	3	06/06/06 00:18
187065-008	1-Methylnaphthalene (UV)	HPLC04	1	06/06/06 00:18
187065-008	1-Methylnaphthalene (F)	HPLC04	3	06/06/06 00:18
187065-009	Naphthalene	HPLC04	1	06/06/06 00:50
187065-009	Acenaphthylene	HPLC04	1	06/06/06 00:50
187065-009	Acenaphthene	HPLC04	1	06/06/06 00:50
187065-009	Fluorene	HPLC04	1	06/06/06 00:50
187065-009	Phenanthrene	HPLC04	3	06/06/06 00:50
187065-009	Anthracene	HPLC04	3	06/06/06 00:50
187065-009	Fluoranthene	HPLC04	3	06/06/06 00:50
187065-009	Pyrene	HPLC04	3	06/06/06 00:50
187065-009	Benzo(a)anthracene	HPLC04	3	06/06/06 00:50
187065-009	Chrysene	HPLC04	3	06/06/06 00:50
187065-009	Benzo(b)fluoranthene	HPLC04	3	06/06/06 00:50
187065-009	Benzo(k)fluoranthene	HPLC04	3	06/06/06 00:50
187065-009	Benzo(a)pyrene	HPLC04	3	06/06/06 00:50
187065-009	Dibenz(a,h)anthracene	HPLC04	3	06/06/06 00:50
187065-009	Benzo(g,h,i)perylene	HPLC04	3	06/06/06 00:50
187065-009	Indeno(1,2,3-cd)pyrene	HPLC04	3	06/06/06 00:50
187065-009	1-Methylnaphthalene (UV)	HPLC04	1	06/06/06 00:50
187065-009	1-Methylnaphthalene (F)	HPLC04	3	06/06/06 00:50
187065-010	Naphthalene	HPLC04	1	06/06/06 01:22
187065-010	Acenaphthylene	HPLC04	1	06/06/06 01:22
187065-010	Acenaphthene	HPLC04	1	06/06/06 01:22
187065-010	Fluorene	HPLC04	1	06/06/06 01:22
187065-010	Phenanthrene	HPLC04	3	06/06/06 01:22
187065-010	Anthracene	HPLC04	3	06/06/06 01:22
187065-010	Fluoranthene	HPLC04	3	06/06/06 01:22
187065-010	Pyrene	HPLC04	3	06/06/06 01:22
187065-010	Benzo(a)anthracene	HPLC04	3	06/06/06 01:22
187065-010	Chrysene	HPLC04	3	06/06/06 01:22
187065-010	Benzo(b)fluoranthene	HPLC04	3	06/06/06 01:22
187065-010	Benzo(k)fluoranthene	HPLC04	3	06/06/06 01:22
187065-010	Benzo(a)pyrene	HPLC04	3	06/06/06 01:22
187065-010	Dibenz(a,h)anthracene	HPLC04	3	06/06/06 01:22
187065-010	Benzo(g,h,i)perylene	HPLC04	3	06/06/06 01:22
187065-010	Indeno(1,2,3-cd)pyrene	HPLC04	3	06/06/06 01:22

REPORTING SUMMARY FOR 187065 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
187065-010	1-Methylnaphthalene (UV)	HPLC04	1	06/06/06 01:22
187065-010	1-Methylnaphthalene (F)	HPLC04	3	06/06/06 01:22
187065-011	Naphthalene	HPLC04	1	06/06/06 01:53
187065-011	Acenaphthylene	HPLC04	1	06/06/06 01:53
187065-011	Acenaphthene	HPLC04	1	06/06/06 01:53
187065-011	Fluorene	HPLC04	1	06/06/06 01:53
187065-011	Phenanthrene	HPLC04	3	06/06/06 01:53
187065-011	Anthracene	HPLC04	3	06/06/06 01:53
187065-011	Fluoranthene	HPLC04	3	06/06/06 01:53
187065-011	Pyrene	HPLC04	3	06/06/06 01:53
187065-011	Benzo(a)anthracene	HPLC04	3	06/06/06 01:53
187065-011	Chrysene	HPLC04	3	06/06/06 01:53
187065-011	Benzo(b)fluoranthene	HPLC04	3	06/06/06 01:53
187065-011	Benzo(k)fluoranthene	HPLC04	3	06/06/06 01:53
187065-011	Benzo(a)pyrene	HPLC04	3	06/06/06 01:53
187065-011	Dibenz(a,h)anthracene	HPLC04	3	06/06/06 01:53
187065-011	Benzo(g,h,i)perylene	HPLC04	3	06/06/06 01:53
187065-011	Indeno(1,2,3-cd)pyrene	HPLC04	3	06/06/06 01:53
187065-011	1-Methylnaphthalene (UV)	HPLC04	1	06/06/06 01:53
187065-011	1-Methylnaphthalene (F)	HPLC04	3	06/06/06 01:53
187065-012	Naphthalene	HPLC04	1	06/06/06 02:25
187065-012	Acenaphthylene	HPLC04	1	06/06/06 02:25
187065-012	Acenaphthene	HPLC04	1	06/06/06 02:25
187065-012	Fluorene	HPLC04	1	06/06/06 02:25
187065-012	Phenanthrene	HPLC04	3	06/06/06 02:25
187065-012	Anthracene	HPLC04	3	06/06/06 02:25
187065-012	Fluoranthene	HPLC04	3	06/06/06 02:25
187065-012	Pyrene	HPLC04	3	06/06/06 02:25
187065-012	Benzo(a)anthracene	HPLC04	3	06/06/06 02:25
187065-012	Chrysene	HPLC04	3	06/06/06 02:25
187065-012	Benzo(b)fluoranthene	HPLC04	3	06/06/06 02:25
187065-012	Benzo(k)fluoranthene	HPLC04	3	06/06/06 02:25
187065-012	Benzo(a)pyrene	HPLC04	3	06/06/06 02:25
187065-012	Dibenz(a,h)anthracene	HPLC04	3	06/06/06 02:25
187065-012	Benzo(g,h,i)perylene	HPLC04	3	06/06/06 02:25
187065-012	Indeno(1,2,3-cd)pyrene	HPLC04	3	06/06/06 02:25
187065-012	1-Methylnaphthalene (UV)	HPLC04	1	06/06/06 02:25
187065-012	1-Methylnaphthalene (F)	HPLC04	3	06/06/06 02:25
187065-013	Naphthalene	HPLC04	1	06/06/06 02:57
187065-013	Acenaphthylene	HPLC04	1	06/06/06 02:57
187065-013	Acenaphthene	HPLC04	1	06/06/06 02:57
187065-013	Fluorene	HPLC04	1	06/06/06 02:57
187065-013	Phenanthrene	HPLC04	3	06/06/06 02:57
187065-013	Anthracene	HPLC04	3	06/06/06 02:57
187065-013	Fluoranthene	HPLC04	3	06/06/06 02:57
187065-013	Pyrene	HPLC04	3	06/06/06 02:57
187065-013	Benzo(a)anthracene	HPLC04	3	06/06/06 02:57
187065-013	Chrysene	HPLC04	3	06/06/06 02:57
187065-013	Benzo(b)fluoranthene	HPLC04	3	06/06/06 02:57
187065-013	Benzo(k)fluoranthene	HPLC04	3	06/06/06 02:57
187065-013	Benzo(a)pyrene	HPLC04	3	06/06/06 02:57

REPORTING SUMMARY FOR 187065 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
187065-013	Dibenz(a,h)anthracene	HPLC04	3	06/06/06 02:57
187065-013	Benzo(g,h,i)perylene	HPLC04	3	06/06/06 02:57
187065-013	Indeno(1,2,3-cd)pyrene	HPLC04	3	06/06/06 02:57
187065-013	1-Methylnaphthalene (UV)	HPLC04	1	06/06/06 02:57
187065-013	1-Methylnaphthalene (F)	HPLC04	3	06/06/06 02:57
QC342228	Naphthalene	HPLC04	1	06/05/06 15:52
QC342228	Acenaphthylene	HPLC04	1	06/05/06 15:52
QC342228	Acenaphthene	HPLC04	1	06/05/06 15:52
QC342228	Fluorene	HPLC04	1	06/05/06 15:52
QC342228	Phenanthrene	HPLC04	3	06/05/06 15:52
QC342228	Anthracene	HPLC04	3	06/05/06 15:52
QC342228	Fluoranthene	HPLC04	3	06/05/06 15:52
QC342228	Pyrene	HPLC04	3	06/05/06 15:52
QC342228	Benzo(a)anthracene	HPLC04	3	06/05/06 15:52
QC342228	Chrysene	HPLC04	3	06/05/06 15:52
QC342228	Benzo(b)fluoranthene	HPLC04	3	06/05/06 15:52
QC342228	Benzo(k)fluoranthene	HPLC04	3	06/05/06 15:52
QC342228	Benzo(a)pyrene	HPLC04	3	06/05/06 15:52
QC342228	Dibenz(a,h)anthracene	HPLC04	3	06/05/06 15:52
QC342228	Benzo(g,h,i)perylene	HPLC04	3	06/05/06 15:52
QC342228	Indeno(1,2,3-cd)pyrene	HPLC04	3	06/05/06 15:52
QC342228	1-Methylnaphthalene (UV)	HPLC04	1	06/05/06 15:52
QC342228	1-Methylnaphthalene (F)	HPLC04	3	06/05/06 15:52
QC342229	Naphthalene	HPLC04	1	06/05/06 15:21
QC342229	Fluorene	HPLC04	1	06/05/06 15:21
QC342229	Pyrene	HPLC04	3	06/05/06 15:21
QC342229	Benzo(a)pyrene	HPLC04	3	06/05/06 15:21
QC342229	1-Methylnaphthalene (UV)	HPLC04	1	06/05/06 15:21
QC342229	1-Methylnaphthalene (F)	HPLC04	3	06/05/06 15:21
QC342230	Naphthalene	HPLC04	1	06/05/06 19:34
QC342230	Fluorene	HPLC04	1	06/05/06 19:34
QC342230	Pyrene	HPLC04	3	06/05/06 19:34
QC342230	Benzo(a)pyrene	HPLC04	3	06/05/06 19:34
QC342230	1-Methylnaphthalene (UV)	HPLC04	1	06/05/06 19:34
QC342230	1-Methylnaphthalene (F)	HPLC04	3	06/05/06 19:34
QC342231	Naphthalene	HPLC04	1	06/05/06 20:05
QC342231	Fluorene	HPLC04	1	06/05/06 20:05
QC342231	Pyrene	HPLC04	3	06/05/06 20:05
QC342231	Benzo(a)pyrene	HPLC04	3	06/05/06 20:05
QC342231	1-Methylnaphthalene (UV)	HPLC04	1	06/05/06 20:05
QC342231	1-Methylnaphthalene (F)	HPLC04	3	06/05/06 20:05

Curtis & Tompkins Laboratories **Sample Preparation Summary** **07-JUN-2006 10:58**

Batch Number : 113988
Date Extracted: 31-MAY-2006
Extracted by : Matthew Josh McManus
Prep Method : 3520C

Analysis : 8310
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S3376M
Spike #2 ID : S3553C
Spike #3 ID :
SOP Version : 8310w_rv6

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
187065-008		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
187065-009		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
187065-010		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
187065-011		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
187065-012		Treadwell & Rollo	Water	1000	mL	2	0.002000	1	6	.1	0		8310		
187065-013		Treadwell & Rollo	Water	1020	mL	2	0.001961	1	6	.1	0		8310		
187086-001		Acton Mickelson Environmental	Water	1010	mL	2	0.001980	1	6	.2	0		8310		MSS
187086-002		Acton Mickelson Environmental	Water	1010	mL	2	0.001980	1	6	.1	0		8310		
187086-003		Acton Mickelson Environmental	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
187086-004		Acton Mickelson Environmental	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
187086-005		Acton Mickelson Environmental	Water	1010	mL	2	0.001980	1	6	.1	0		8310		
187086-006		Acton Mickelson Environmental	Water	1000	mL	2	0.002000	1	6	.1	0		8310		
187086-007		Acton Mickelson Environmental	Water	1010	mL	2	0.001980	1	6	.1	0		8310		
187086-008		Acton Mickelson Environmental	Water	1000	mL	2	0.002000	1	6	.1	0		8310		
187086-009		Acton Mickelson Environmental	Water	1010	mL	2	0.001980	1	6	.1	0		8310		
QC342228	BLANK		Water	1000	mL	2	0.002000	1		.1	0		8310		
QC342229	LCS		Water	1000	mL	2	0.002000	1		.1	1		8310		
QC342230	MS	of 187086-001	Water	1040	mL	2	0.001923	1	6	.1	1		8310		
QC342231	MSD	of 187086-001	Water	1010	mL	2	0.001980	1	6	.1	1		8310		

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Prep Chemist: _____ Reviewed By: _____ Date: 6/7/06

Relinquished By: _____ Received By: _____ Date: 07JUN2006

Curtis & Tompkins, Ltd

8310 WATER PREP LOG

BK2190

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LIMS Batch No: 113988
LIMS Analysis: 8310
Extracted by: MSM
Date Extracted: 5/31/06

Extraction Method:
- ☐ EPA 3510c sep. funnel
- ☑ EPA 3520c cont. L/L
- ☐ _____

Cleanup Method (if needed):
- ☐ EPA 3640a GPC
- ☐ EPA 3630c Silica Gel

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
187065-008 E	1060	6	2.0		☆
-009 I	1060				Δ
-0010 F	1060				
-011 I	1060				
-012 K	1000				
-013 M	1020				
187086-001 Z	1010				MSS, Poss. 2x Surrogate
-002 H	1010				
-003 I	1060				
-004	1060				
-005 H	1010				
-006 I	1000				
-007 J	1010				
-008	1000				
-009 J	1010				
MB QC342228	1000	N/A			☆
LCS 29					
MS 30	1040	6			of 187086-001 W
MSD 31	1010				
					RPW 6/5/06

0.1 mL of surrogate solution was added to all samples
1.0 mL of matrix spiking solution was added to all spikes
☑ Samples continuously extracted with about 450 mL of CH_2Cl_2
Extraction Start Time: 1416
Extraction End Time: 0845
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2
Extracts filtered through baked, CH2Cl2-rinsed ~~powdered~~ granular Na2SO4
Exchanged 2x with Acetonitrile
Concentrated: ☒ to volumes as noted above ☐ to clean-up volume
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Silica Gel
Extracts filtered with 0.45 um PTFE syringe filter

Mfg & Lot# / LIMS # / Time	Date/ Initials
S3376M☆ / J△ / O	5/31/06 MSM
S3553C	
EM466110	
1416	
0845	JSM 6/1/06
NA	RPW 6/5/06
EM45091549	
EM4533e	
✓	
NA	
Whatman K774	

MSM 5/31/06
Extraction Chemist Date

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Continued on Page ____

6/7/06
Reviewed by Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8310 Water 3520C
As of 06/22/06

Analyte	Units	HPLC02 1	HPLC02 2	HPLC02 3	HPLC04 1	HPLC04 2	HPLC04 3
Naphthalene	ug/L	0.16		0.069	0.097		0.10
Acenaphthylene	ug/L	0.37	0.29		0.24	0.16	
2-Methylnaphthalene	ug/L				0.072		0.10
Acenaphthene	ug/L	0.36		0.098	0.33		0.085
Fluorene	ug/L	0.051		0.054	0.028		0.017
Phenanthrene	ug/L	0.030		0.0086	0.0082		0.0078
Anthracene	ug/L	0.021		0.0077	0.024		0.023
Fluoranthene	ug/L	0.13		0.011	0.042		0.013
Pyrene	ug/L	0.066		0.0048	0.036		0.010
Benzo(a)anthracene	ug/L	0.044		0.0046	0.022		0.013
Chrysene	ug/L	0.036		0.0059	0.021		0.0096
Benzo(b)fluoranthene	ug/L	0.032		0.0081	0.015		0.013
Benzo(k)fluoranthene	ug/L	0.037		0.0044	0.013		0.0080
Benzo(a)pyrene	ug/L	0.055		0.0045	0.017		0.025
Dibenz(a,h)anthracene	ug/L	0.12		0.026	0.037		0.025
Benzo(g,h,i)perylene	ug/L	0.066		0.014	0.047		0.017
Indeno(1,2,3-cd)pyrene	ug/L	0.065		0.011	0.013		0.0096
1-Methylnaphthalene (UV)	ug/L	1.2	1.9		9.0	9.1	
1-Methylnaphthalene (F)	ug/L			0.72			9.8

METALS

Curtis & Tompkins, Ltd.

Dissolved Metals

Lab #:	187065	Project#:	2893.04.51
Client:	Treadwell & Rollo	Location:	Presidio
Field ID:	1065PZ1A	Units:	ug/L
Lab ID:	187065-001	Sampled:	05/24/06
Matrix:	Filtrate	Received:	05/25/06

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Aluminum	ND	100	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Antimony	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Arsenic	21	5.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Cadmium	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Calcium	30,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Chromium	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Copper	2.6	1.0	10.00	114296	06/09/06	06/13/06	EPA 3010A	EPA 6020
Iron	23,000	100	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Lead	ND	3.0	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Magnesium	51,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Manganese	98	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Nickel	ND	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Potassium	1,800	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Sodium	220,000	5,000	10.00	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Vanadium	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Zinc	40	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Metals

Lab #:	187065	Project#:	2893.04.51
Client:	Treadwell & Rollo	Location:	Presidio
Field ID:	1065PZ2A	Units:	ug/L
Lab ID:	187065-002	Sampled:	05/24/06
Matrix:	Filtrate	Received:	05/25/06

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Aluminum	ND	100	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Antimony	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Arsenic	14	5.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Cadmium	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Calcium	28,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Chromium	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Copper	ND	1.0	10.00	114296	06/09/06	06/13/06	EPA 3010A	EPA 6020
Iron	16,000	100	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Lead	ND	3.0	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Magnesium	53,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Manganese	1,700	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Nickel	ND	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Potassium	970	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Sodium	76,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Vanadium	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Zinc	ND	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Metals

Lab #:	187065	Project#:	2893.04.51
Client:	Treadwell & Rollo	Location:	Presidio
Field ID:	1065PZ4A	Units:	ug/L
Lab ID:	187065-003	Sampled:	05/24/06
Matrix:	Filtrate	Received:	05/25/06

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Aluminum	ND	100	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Antimony	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Arsenic	7.9	5.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Cadmium	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Calcium	43,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Chromium	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Copper	1.7	1.0	10.00	114296	06/09/06	06/13/06	EPA 3010A	EPA 6020
Iron	21,000	100	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Lead	ND	3.0	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Magnesium	48,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Manganese	1,800	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Nickel	ND	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Potassium	5,400	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Sodium	150,000	5,000	10.00	114296	06/09/06	06/15/06	EPA 3010A	EPA 6010B
Vanadium	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Zinc	26	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Metals

Lab #:	187065	Project#:	2893.04.51
Client:	Treadwell & Rollo	Location:	Presidio
Field ID:	1065MW101	Units:	ug/L
Lab ID:	187065-004	Sampled:	05/24/06
Matrix:	Filtrate	Received:	05/25/06

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Aluminum	ND	100	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Antimony	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Arsenic	26	5.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Cadmium	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Calcium	23,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Chromium	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Copper	ND	1.0	10.00	114296	06/09/06	06/13/06	EPA 3010A	EPA 6020
Iron	22,000	100	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Lead	ND	3.0	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Magnesium	43,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Manganese	66	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Nickel	ND	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Potassium	7,300	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Sodium	230,000	5,000	10.00	114296	06/09/06	06/15/06	EPA 3010A	EPA 6010B
Vanadium	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Zinc	ND	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Metals

Lab #:	187065	Project#:	2893.04.51
Client:	Treadwell & Rollo	Location:	Presidio
Field ID:	1065MW102	Units:	ug/L
Lab ID:	187065-005	Sampled:	05/24/06
Matrix:	Filtrate	Received:	05/25/06

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Aluminum	ND	100	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Antimony	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Arsenic	11	5.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Cadmium	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Calcium	25,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Chromium	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Copper	ND	1.0	10.00	114296	06/09/06	06/13/06	EPA 3010A	EPA 6020
Iron	9,500	100	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Lead	ND	3.0	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Magnesium	41,000	2,000	10.00	114296	06/09/06	06/15/06	EPA 3010A	EPA 6010B
Manganese	150	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Nickel	33	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Potassium	3,600	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Sodium	200,000	5,000	10.00	114296	06/09/06	06/15/06	EPA 3010A	EPA 6010B
Vanadium	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Zinc	ND	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	187065	Project#:	2893.04.51
Client:	Treadwell & Rollo	Location:	Presidio
Field ID:	231GW09	Units:	ug/L
Lab ID:	187065-006	Sampled:	05/24/06
Matrix:	Filtrate	Received:	05/25/06

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Aluminum	ND	100	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Antimony	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Arsenic	ND	5.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Barium	61	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Cadmium	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Calcium	27,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Chromium	24	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Cobalt	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Copper	ND	1.0	10.00	114296	06/09/06	06/13/06	EPA 3010A	EPA 6020
Iron	ND	100	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Lead	ND	3.0	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Magnesium	48,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Manganese	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Nickel	43	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Potassium	ND	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Selenium	ND	5.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Silver	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Sodium	76,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Thallium	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Vanadium	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Zinc	ND	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	187065	Project#:	2893.04.51
Client:	Treadwell & Rollo	Location:	Presidio
Field ID:	1221GW104	Units:	ug/L
Lab ID:	187065-007	Sampled:	05/24/06
Matrix:	Filtrate	Received:	05/25/06

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Aluminum	ND	100	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Antimony	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Arsenic	ND	5.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Barium	11	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Cadmium	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Calcium	63,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Chromium	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Cobalt	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Copper	ND	1.0	10.00	114296	06/09/06	06/13/06	EPA 3010A	EPA 6020
Iron	ND	100	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Lead	ND	3.0	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Magnesium	94,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Manganese	28	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Nickel	ND	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Potassium	2,400	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Selenium	ND	5.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Silver	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Sodium	70,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Thallium	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Vanadium	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Zinc	ND	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	187065	Project#:	2893.04.51
Client:	Treadwell & Rollo	Location:	Presidio
Field ID:	1213GW101	Units:	ug/L
Lab ID:	187065-009	Sampled:	05/24/06
Matrix:	Filtrate	Received:	05/25/06

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Aluminum	ND	100	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Antimony	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Arsenic	6.3	5.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Barium	10	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Cadmium	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Calcium	19,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Chromium	54	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Cobalt	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Copper	ND	1.0	10.00	114296	06/09/06	06/13/06	EPA 3010A	EPA 6020
Iron	ND	100	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Lead	ND	3.0	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Magnesium	72,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Manganese	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Nickel	ND	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Potassium	2,600	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Selenium	ND	5.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Silver	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Sodium	340,000	25,000	50.00	114296	06/09/06	06/15/06	EPA 3010A	EPA 6010B
Thallium	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Vanadium	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Zinc	ND	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	187065	Project#:	2893.04.51
Client:	Treadwell & Rollo	Location:	Presidio
Field ID:	DUP-05242006	Units:	ug/L
Lab ID:	187065-011	Sampled:	05/24/06
Matrix:	Filtrate	Received:	05/25/06

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Aluminum	ND	100	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Antimony	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Arsenic	5.8	5.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Barium	11	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Cadmium	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Calcium	19,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Chromium	23	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Cobalt	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Copper	ND	1.0	10.00	114296	06/09/06	06/13/06	EPA 3010A	EPA 6020
Iron	ND	100	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Lead	ND	3.0	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Magnesium	71,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Manganese	29	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Nickel	ND	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Potassium	2,500	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Selenium	ND	5.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Silver	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Sodium	300,000	5,000	10.00	114296	06/09/06	06/15/06	EPA 3010A	EPA 6010B
Thallium	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Vanadium	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Zinc	21	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	187065	Project#:	2893.04.51
Client:	Treadwell & Rollo	Location:	Presidio
Field ID:	1349MW100	Units:	ug/L
Lab ID:	187065-012	Sampled:	05/24/06
Matrix:	Filtrate	Received:	05/25/06

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Aluminum	ND	100	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Antimony	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Arsenic	13	5.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Barium	380	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Cadmium	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Calcium	150,000	2,000	10.00	114296	06/09/06	06/15/06	EPA 3010A	EPA 6010B
Chromium	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Cobalt	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Copper	ND	1.0	10.00	114296	06/09/06	06/13/06	EPA 3010A	EPA 6020
Iron	33,000	100	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Lead	ND	3.0	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Magnesium	200,000	2,000	10.00	114296	06/09/06	06/15/06	EPA 3010A	EPA 6010B
Manganese	14,000	50	10.00	114296	06/09/06	06/15/06	EPA 3010A	EPA 6010B
Nickel	ND	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Potassium	3,800	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Selenium	ND	5.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Silver	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Sodium	460,000	5,000	10.00	114296	06/09/06	06/15/06	EPA 3010A	EPA 6010B
Thallium	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Vanadium	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Zinc	ND	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	187065	Project#:	2893.04.51
Client:	Treadwell & Rollo	Location:	Presidio
Field ID:	DUP0524063A	Units:	ug/L
Lab ID:	187065-013	Sampled:	05/24/06
Matrix:	Filtrate	Received:	05/25/06

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Aluminum	ND	100	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Antimony	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Arsenic	12	5.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Barium	380	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Cadmium	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Calcium	140,000	2,000	10.00	114296	06/09/06	06/15/06	EPA 3010A	EPA 6010B
Chromium	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Cobalt	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Copper	ND	1.0	10.00	114296	06/09/06	06/13/06	EPA 3010A	EPA 6020
Iron	34,000	100	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Lead	ND	3.0	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Magnesium	200,000	2,000	10.00	114296	06/09/06	06/15/06	EPA 3010A	EPA 6010B
Manganese	14,000	50	10.00	114296	06/09/06	06/15/06	EPA 3010A	EPA 6010B
Nickel	ND	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Potassium	3,500	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Selenium	ND	5.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Silver	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Sodium	450,000	5,000	10.00	114296	06/09/06	06/15/06	EPA 3010A	EPA 6010B
Thallium	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Vanadium	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Zinc	ND	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Metals

Lab #:	187065	Project#:	2893.04.51
Client:	Treadwell & Rollo	Location:	Presidio
Field ID:	1065PZ1B	Units:	ug/L
Lab ID:	187065-014	Sampled:	05/24/06
Matrix:	Filtrate	Received:	05/25/06

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Aluminum	ND	100	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Antimony	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Arsenic	ND	5.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Cadmium	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Calcium	50,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Chromium	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Copper	ND	1.0	10.00	114296	06/09/06	06/13/06	EPA 3010A	EPA 6020
Iron	120	100	1.000	114296	06/09/06	06/15/06	EPA 3010A	EPA 6010B
Lead	ND	3.0	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Magnesium	75,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Manganese	91	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Nickel	ND	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Potassium	38,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Sodium	87,000	500	1.000	114296	06/09/06	06/15/06	EPA 3010A	EPA 6010B
Vanadium	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Zinc	ND	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Metals

Lab #:	187065	Project#:	2893.04.51
Client:	Treadwell & Rollo	Location:	Presidio
Field ID:	1065PZ5AR	Units:	ug/L
Lab ID:	187065-015	Sampled:	05/24/06
Matrix:	Filtrate	Received:	05/25/06

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Aluminum	ND	100	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Antimony	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Arsenic	26	5.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Cadmium	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Calcium	74,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Chromium	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Copper	ND	1.0	10.00	114296	06/09/06	06/13/06	EPA 3010A	EPA 6020
Iron	19,000	100	1.000	114296	06/09/06	06/15/06	EPA 3010A	EPA 6010B
Lead	ND	3.0	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Magnesium	77,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Manganese	2,100	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Nickel	ND	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Potassium	6,500	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Sodium	91,000	500	1.000	114296	06/09/06	06/15/06	EPA 3010A	EPA 6010B
Vanadium	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Zinc	ND	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Metals

Lab #:	187065	Project#:	2893.04.51
Client:	Treadwell & Rollo	Location:	Presidio
Field ID:	1065MW9A	Units:	ug/L
Lab ID:	187065-016	Sampled:	05/24/06
Matrix:	Filtrate	Received:	05/25/06

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Aluminum	ND	100	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Antimony	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Arsenic	6.8	5.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Cadmium	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Calcium	61,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Chromium	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Copper	ND	1.0	10.00	114296	06/09/06	06/13/06	EPA 3010A	EPA 6020
Iron	5,900	100	1.000	114296	06/09/06	06/15/06	EPA 3010A	EPA 6010B
Lead	ND	3.0	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Magnesium	93,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Manganese	540	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Nickel	ND	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Potassium	17,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Sodium	68,000	500	1.000	114296	06/09/06	06/15/06	EPA 3010A	EPA 6010B
Vanadium	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Zinc	ND	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Metals

Lab #:	187065	Project#:	2893.04.51
Client:	Treadwell & Rollo	Location:	Presidio
Field ID:	DUP0524063B	Units:	ug/L
Lab ID:	187065-017	Sampled:	05/24/06
Matrix:	Filtrate	Received:	05/25/06

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Aluminum	ND	100	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Antimony	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Arsenic	6.9	5.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Cadmium	ND	1.0	1.000	114057	06/02/06	06/09/06	200.8	EPA 6020
Calcium	65,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Chromium	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Copper	ND	1.0	10.00	114296	06/09/06	06/13/06	EPA 3010A	EPA 6020
Iron	6,200	100	1.000	114296	06/09/06	06/15/06	EPA 3010A	EPA 6010B
Lead	ND	3.0	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Magnesium	99,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Manganese	550	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Nickel	ND	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Potassium	18,000	500	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Sodium	72,000	500	1.000	114296	06/09/06	06/15/06	EPA 3010A	EPA 6010B
Vanadium	ND	10	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B
Zinc	ND	20	1.000	114296	06/09/06	06/14/06	EPA 3010A	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3010A
Project#:	2893.04.51		
Type:	BLANK	Units:	ug/L
Lab ID:	QC343475	Batch#:	114296
Matrix:	Filtrate	Prepared:	06/09/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	ND	100	1.000	06/14/06	EPA 6010B
Barium	ND	10	1.000	06/14/06	EPA 6010B
Beryllium	ND	2.0	1.000	06/14/06	EPA 6010B
Calcium	ND	500	1.000	06/14/06	EPA 6010B
Chromium	ND	10	1.000	06/14/06	EPA 6010B
Cobalt	ND	10	1.000	06/14/06	EPA 6010B
Copper	ND	1.0	10.00	06/13/06	EPA 6020
Iron	ND	100	1.000	06/14/06	EPA 6010B
Lead	ND	3.0	1.000	06/14/06	EPA 6010B
Magnesium	ND	500	1.000	06/14/06	EPA 6010B
Manganese	ND	10	1.000	06/14/06	EPA 6010B
Nickel	ND	20	1.000	06/14/06	EPA 6010B
Potassium	ND	500	1.000	06/14/06	EPA 6010B
Sodium	ND	500	1.000	06/14/06	EPA 6010B
Vanadium	ND	10	1.000	06/14/06	EPA 6010B
Zinc	ND	20	1.000	06/14/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC342496	Batch#:	114057
Matrix:	Filtrate	Prepared:	06/02/06
Units:	ug/L	Analyzed:	06/09/06

Analyte	Result	RL
Antimony	ND	1.0
Arsenic	ND	5.0
Cadmium	ND	1.0
Selenium	ND	5.0
Silver	ND	1.0
Thallium	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Mercury by Cold Vapor AA

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Sampled:	05/24/06
Units:	ug/L	Received:	05/25/06
Diln Fac:	1.000	Prepared:	06/01/06
Batch#:	114015	Analyzed:	06/01/06

Field ID	Type	Lab ID	Matrix	Result	RL
231GW09	SAMPLE	187065-006	Filtrate	ND	0.20
1349MW100	SAMPLE	187065-012	Filtrate	ND	0.20
DUP0524063A	SAMPLE	187065-013	Filtrate	ND	0.20
	BLANK	QC342325	Water	ND	0.20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3010A
Project#:	2893.04.51		
Matrix:	Filtrate	Batch#:	114296
Units:	ug/L	Prepared:	06/09/06

Type: BS Lab ID: QC343476

Analyte	Spiked	Result	%REC	Limits	Diln Fac	Analyzed	Analysis
Aluminum	2,000	2,166	108	80-120	1.000	06/14/06	EPA 6010B
Barium	2,000	1,910	96	80-120	1.000	06/14/06	EPA 6010B
Beryllium	50.00	50.56	101	80-120	1.000	06/14/06	EPA 6010B
Calcium	20,000	21,400	107	80-120	1.000	06/14/06	EPA 6010B
Chromium	200.0	196.0	98	80-120	1.000	06/14/06	EPA 6010B
Cobalt	500.0	480.6	96	80-120	1.000	06/14/06	EPA 6010B
Copper	250.0	245.6	98	80-120	10.00	06/13/06	EPA 6020
Iron	1,000	1,143	114	80-120	1.000	06/14/06	EPA 6010B
Lead	100.0	92.35	92	80-120	1.000	06/14/06	EPA 6010B
Magnesium	20,000	21,570	108	80-120	1.000	06/14/06	EPA 6010B
Manganese	50.00	50.49	101	80-120	1.000	06/14/06	EPA 6010B
Nickel	500.0	479.1	96	80-120	1.000	06/14/06	EPA 6010B
Potassium	10,000	11,120	111	80-120	1.000	06/14/06	EPA 6010B
Sodium	20,000	22,490	112	80-120	1.000	06/14/06	EPA 6010B
Vanadium	500.0	507.1	101	80-120	1.000	06/14/06	EPA 6010B
Zinc	500.0	519.7	104	80-120	1.000	06/14/06	EPA 6010B

Type: BSD Lab ID: QC343477

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed	Analysis
Aluminum	2,000	2,195	110	80-120	1	20	1.000	06/14/06	EPA 6010B
Barium	2,000	2,071	104	80-120	8	20	1.000	06/14/06	EPA 6010B
Beryllium	50.00	54.73	109	80-120	8	20	1.000	06/14/06	EPA 6010B
Calcium	20,000	21,220	106	80-120	1	20	1.000	06/14/06	EPA 6010B
Chromium	200.0	211.7	106	80-120	8	20	1.000	06/14/06	EPA 6010B
Cobalt	500.0	519.3	104	80-120	8	20	1.000	06/14/06	EPA 6010B
Copper	250.0	245.3	98	80-120	0	20	10.00	06/13/06	EPA 6020
Iron	1,000	1,139	114	80-120	0	20	1.000	06/14/06	EPA 6010B
Lead	100.0	99.62	100	80-120	8	20	1.000	06/14/06	EPA 6010B
Magnesium	20,000	21,860	109	80-120	1	20	1.000	06/14/06	EPA 6010B
Manganese	50.00	54.29	109	80-120	7	20	1.000	06/14/06	EPA 6010B
Nickel	500.0	519.6	104	80-120	8	20	1.000	06/14/06	EPA 6010B
Potassium	10,000	11,010	110	80-120	1	20	1.000	06/14/06	EPA 6010B
Sodium	20,000	22,240	111	80-120	1	20	1.000	06/14/06	EPA 6010B
Vanadium	500.0	541.0	108	80-120	6	20	1.000	06/14/06	EPA 6010B
Zinc	500.0	559.8	112	80-120	7	20	1.000	06/14/06	EPA 6010B

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Matrix:	Filtrate	Batch#:	114057
Units:	ug/L	Prepared:	06/02/06
Diln Fac:	1.000	Analyzed:	06/09/06

Type: BS Lab ID: QC342497

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	95.03	95	80-120
Arsenic	100.0	94.36	94	80-120
Cadmium	100.0	88.58	89	80-120
Selenium	100.0	86.55	87	80-120
Silver	100.0	89.68	90	80-120
Thallium	100.0	82.29	82	80-120

Type: BSD Lab ID: QC342498

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	97.67	98	80-120	3	20
Arsenic	100.0	97.00	97	80-120	3	20
Cadmium	100.0	91.13	91	80-120	3	20
Selenium	100.0	88.77	89	80-120	3	20
Silver	100.0	91.78	92	80-120	2	20
Thallium	100.0	87.02	87	80-120	6	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Mercury by Cold Vapor AA

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	114015
Field ID:	ZZZZZZZZZZ	Sampled:	05/30/06
MSS Lab ID:	187133-003	Received:	05/30/06
Units:	ug/L	Prepared:	06/01/06
Diln Fac:	1.000	Analyzed:	06/01/06

Type	Lab ID	Matrix	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC342326	Water		5.000	4.970	99	80-120		
BSD	QC342327	Water		5.000	5.020	100	80-120	1	20
MS	QC342328	Filtrate	<0.05753	5.000	5.550	111	75-125		
MSD	QC342329	Filtrate		5.000	5.600	112	75-125	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3010A
Project#:	2893.04.51		
Field ID:	1065PZ1A	Batch#:	114296
MSS Lab ID:	187065-001	Sampled:	05/24/06
Matrix:	Filtrate	Received:	05/25/06
Units:	ug/L	Prepared:	06/09/06

Type: MS Lab ID: QC343478

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln Fac	Analyzed	Analysis
Aluminum	<42.49	2,000	2,058	103	75-125	1.000	06/14/06	EPA 6010B
Barium	132.2	2,000	2,214	104	75-125	1.000	06/14/06	EPA 6010B
Beryllium	<0.2089	50.00	55.18	110	75-125	1.000	06/14/06	EPA 6010B
Calcium	29,520	20,000	50,050	103	75-125	1.000	06/14/06	EPA 6010B
Chromium	<0.5564	200.0	210.3	105	75-125	1.000	06/14/06	EPA 6010B
Cobalt	5.334	500.0	521.0	103	75-125	1.000	06/14/06	EPA 6010B
Copper	2.575	250.0	240.8	95	75-125	10.00	06/13/06	EPA 6020
Iron	23,010	1,000	24,050	104 NM	75-125	1.000	06/14/06	EPA 6010B
Lead	<0.5698	100.0	92.72	93	75-125	1.000	06/14/06	EPA 6010B
Magnesium	51,320	20,000	71,840	103	75-125	1.000	06/14/06	EPA 6010B
Manganese	98.33	50.00	149.2	102	75-125	1.000	06/14/06	EPA 6010B
Nickel	6.978	500.0	516.4	102	75-125	1.000	06/14/06	EPA 6010B
Potassium	1,789	10,000	12,570	108	75-125	1.000	06/14/06	EPA 6010B
Sodium	223,100	20,000	231,600 >LR	42 NM	75-125	1.000	06/14/06	EPA 6010B
Vanadium	2.527	500.0	547.6	109	75-125	1.000	06/14/06	EPA 6010B
Zinc	39.55	500.0	587.8	110	75-125	1.000	06/14/06	EPA 6010B

Type: MSD Lab ID: QC343479

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed	Analysis
Aluminum	2,000	2,109	105	75-125	2	20	1.000	06/14/06	EPA 6010B
Barium	2,000	2,225	105	75-125	1	20	1.000	06/14/06	EPA 6010B
Beryllium	50.00	55.44	111	75-125	0	20	1.000	06/14/06	EPA 6010B
Calcium	20,000	49,630	101	75-125	1	20	1.000	06/14/06	EPA 6010B
Chromium	200.0	210.7	105	75-125	0	20	1.000	06/14/06	EPA 6010B
Cobalt	500.0	528.5	105	75-125	1	20	1.000	06/14/06	EPA 6010B
Copper	250.0	242.6	96	75-125	1	20	10.00	06/13/06	EPA 6020
Iron	1,000	23,910	90 NM	75-125	1	20	1.000	06/14/06	EPA 6010B
Lead	100.0	93.86	94	75-125	1	20	1.000	06/14/06	EPA 6010B
Magnesium	20,000	71,100	99	75-125	1	20	1.000	06/14/06	EPA 6010B
Manganese	50.00	150.3	104	75-125	1	20	1.000	06/14/06	EPA 6010B
Nickel	500.0	516.9	102	75-125	0	20	1.000	06/14/06	EPA 6010B
Potassium	10,000	12,480	107	75-125	1	20	1.000	06/14/06	EPA 6010B
Sodium	20,000	230,600 >LR	38 NM	75-125	NC	20	1.000	06/14/06	EPA 6010B
Vanadium	500.0	551.4	110	75-125	1	20	1.000	06/14/06	EPA 6010B
Zinc	500.0	588.8	110	75-125	0	20	1.000	06/14/06	EPA 6010B

NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065PZ1A	Batch#:	114057
MSS Lab ID:	187065-001	Sampled:	05/24/06
Matrix:	Filtrate	Received:	05/25/06
Units:	ug/L	Prepared:	06/02/06
Diln Fac:	1.000	Analyzed:	06/09/06

Type: MS Lab ID: QC342499

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.1853	100.0	98.53	98	75-125
Arsenic	20.93	100.0	115.7	95	75-125
Cadmium	<0.1409	100.0	85.83	86	75-125
Selenium	0.7860	100.0	85.82	85	75-125
Silver	<0.04084	100.0	84.60	85	75-125
Thallium	0.7017	100.0	84.92	84	75-125

Type: MSD Lab ID: QC342500

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	103.0	103	75-125	4	20
Arsenic	100.0	120.3	99	75-125	4	20
Cadmium	100.0	90.26	90	75-125	5	20
Selenium	100.0	88.19	87	75-125	3	20
Silver	100.0	88.82	89	75-125	5	20
Thallium	100.0	89.42	89	75-125	5	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3010A
Project#:	2893.04.51		
Field ID:	1065PZ1A	Units:	ug/L
Type:	Serial Dilution	Batch#:	114296
MSS Lab ID:	187065-001	Sampled:	05/24/06
Lab ID:	QC343480	Received:	05/25/06
Matrix:	Filtrate		

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Diln Fac	Analyzed	Analysis
Aluminum	ND	100.0	ND	500.0	NC	10	5.000	06/14/06	EPA 6010B
Barium	132.2	10.00	133.5	25.00	1	10	5.000	06/14/06	EPA 6010B
Beryllium	ND	2.000	ND	10.00	NC	10	5.000	06/14/06	EPA 6010B
Calcium	29,520	500.0	30,260	1,000	3	10	5.000	06/14/06	EPA 6010B
Chromium	ND	10.00	ND	25.00	NC	10	5.000	06/14/06	EPA 6010B
Cobalt	ND	10.00	4.078 J	25.00	NC	10	5.000	06/14/06	EPA 6010B
Copper	2.575	1.000	2.341 J	5.000	NC	10	50.00	06/13/06	EPA 6020
Iron	23,010	100.0	23,720	500.0	3	10	5.000	06/14/06	EPA 6010B
Lead	ND	3.000	ND	15.00	NC	10	5.000	06/14/06	EPA 6010B
Magnesium	51,320	500.0	52,650	1,000	3	10	5.000	06/14/06	EPA 6010B
Manganese	98.33	10.00	99.74	25.00	1	10	5.000	06/14/06	EPA 6010B
Nickel	ND	20.00	7.276 J	25.00	NC	10	5.000	06/14/06	EPA 6010B
Potassium	1,789	500.0	2,018 J	2,500	NC	10	5.000	06/14/06	EPA 6010B
Sodium	223,100	5,000	239,700	25,000	7	10	50.00	06/14/06	EPA 6010B
Vanadium	ND	10.00	ND	25.00	NC	10	5.000	06/14/06	EPA 6010B
Zinc	39.55	20.00	31.51 J	100.0	NC	10	5.000	06/14/06	EPA 6010B

J= Estimated value
NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065PZ1A	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	114057
MSS Lab ID:	187065-001	Sampled:	05/24/06
Lab ID:	QC342501	Received:	05/25/06
Matrix:	Filtrate	Analyzed:	06/09/06
Units:	ug/L		

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim
Antimony	ND	1.000	ND	1.250	NC	10
Arsenic	20.93	5.000	22.26	5.000	NC	10
Cadmium	ND	1.000	ND	1.250	NC	10
Selenium	ND	5.000	ND	5.000	NC	10
Silver	ND	1.000	ND	1.250	NC	10
Thallium	ND	1.000	1.313 J	2.500	NC	10

J= Estimated value
NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET05
Seqnum: 56230032085
File : f0817085
IDF : 1.0
Lab ID: 187065-001
Matrix: Filtrate
Batch : 114057
Time : 09-JUN-2006 01:43
Cal : 56230032001
Units : ug/L

Type : PDS
Inst : MET05
Seqnum: 56230032089
File : f0817089
IDF : 1.0
Lab ID: QC342502
Matrix: Filtrate
Batch : 114057
Time : 09-JUN-2006 02:05
Cal : 56230032001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S3085 (100X)

Analyte	MSS	Spiked	PDS	%Rec	Limits	Flags
Antimony	0.1853	100.0	99.03	99	75-125	
Arsenic	20.93	100.0	115.8	95	75-125	
Barium	115.9	100.0	218.0 >LR	102	75-125	>LR **b***
Beryllium	ND	100.0	109.6	110	75-125	
Cadmium	ND	100.0	87.22	87	75-125	
Cobalt	4.376	100.0	91.10	87	75-125	
Copper	0.4276	100.0	93.38	93	75-125	
Iron	19140	10000	28890 >LR	98	75-125	>LR **b***
Lead	ND	100.0	96.64	97	75-125	
Manganese	71.88	100.0	174.9	103	75-125	
Molybdenum	1.190	100.0	90.84	90	75-125	
Nickel	6.799	100.0	97.95	91	75-125	
Potassium	1458	10000	11190	97	75-125	
Selenium	0.7860	100.0	86.99	86	75-125	
Silver	ND	100.0	87.13	87	75-125	
Thallium	0.7017	100.0	85.75	85	75-125	
Vanadium	1.050	100.0	85.56	85	75-125	
Zinc	28.17	100.0	118.3	90	75-125	

ISTD (ICALBLK f0817003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	549412	427427	-22.20
Scandium	505889	372531	-26.36
Germanium	108050	88282	-18.29
Indium	668072	461823	-30.87
Bismuth	448984	299389	-33.32

MISSING READINGS: **AL CA CR MG NA**

>LR=overrange b=noncompliant

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET06
Seqnum: 66235645098
File : f12p0098
IDF : 10.0
Lab ID: 187065-001
Matrix: Filtrate
Batch : 114296
Time : 13-JUN-2006 03:24
Cal : 66235645001
Units : ug/L

Type : PDS
Inst : MET06
Seqnum: 66235645102
File : f12p0102
IDF : 10.0
Lab ID: QC343481
Matrix: Filtrate
Batch : 114296
Time : 13-JUN-2006 03:53
Cal : 66235645001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S3085 (1000X), S3310

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Aluminum	ND	A	10.00	7.616	A	76	75-125	
Antimony	0.01431	A	10.00	9.765	A	98	75-125	
Arsenic	2.270	E	10.00	11.87	E	96	75-125	
Barium	12.55	A	10.00	22.37	A	98	75-125	
Beryllium	ND	A	10.00	9.648	A	96	75-125	
Cadmium	ND	A	10.00	9.734	A	97	75-125	
Calcium	3116	A	1000	4159	A	104	75-125	
Chromium	0.1248	E	10.00	10.08	E	100	75-125	
Cobalt	0.5510	E	10.00	10.82	E	103	75-125	
Copper	0.2575	E	10.00	11.61	E	114	75-125	
Iron	2333	H	1000	3375	H	104	75-125	
Lead	ND	A	10.00	9.825	A	98	75-125	
Manganese	9.646	E	10.00	19.62	E	100	75-125	
Molybdenum	0.09153	A	10.00	8.972	A	89	75-125	
Nickel	0.7845	E	10.00	10.96	E	102	75-125	
Potassium	159.7	A	1000	1137	A	98	75-125	
Selenium	ND	H	10.00	10.95	H	110	75-125	
Silver	ND	A	10.00	9.200	A	92	75-125	
Thallium	0.03143	A	10.00	8.195	A	82	75-125	
Vanadium	0.06670	E	10.00	9.956	E	99	75-125	
Zinc	4.195	E	10.00	14.37	E	102	75-125	

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	PDS Abund	%Drift
Lithium	A	1095743	936094	-14.57
Scandium	A	1579768	1536010	-2.77
Scandium	E	74947	67388	-10.09
Scandium	H	568379	513378	-9.68
Germanium	H	97865	90535	-7.49
Germanium	E	35506	33707	-5.07
Indium	A	2383616	2336092	-1.99
Bismuth	A	1059165	1036063	-2.18
Yttrium	A	2376774	2405811	1.22
Terbium	A	2836005	2941819	3.73

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : MSS
Inst : MET08
Seqnum: 86238380085
File : 061406ar.txt
IDF : 1.0
Lab ID: 187065-001
Matrix: Filtrate
Batch : 114296
Time : 14-JUN-2006 18:22
Cal : 86238380001
Units : ug/L

Type : PDS
Inst : MET08
Seqnum: 86238380090
File : 061406ar.txt
IDF : 1.0
Lab ID: QC343481
Matrix: Filtrate
Batch : 114296
Time : 14-JUN-2006 18:37
Cal : 86238380001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S1792 (100X), S1793 (100X)

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Aluminum	ND	R	2000	2009	R	100	75-125	
Antimony	ND	A	500.0	541.6	A	108	75-125	
Barium	132.2	A	2000	2242	A	105	75-125	
Beryllium	ND	A	50.00	55.23	A	110	75-125	
Cadmium	ND	A	50.00	55.20	A	110	75-125	
Calcium	29520	R	20000	48480	R	95	75-125	
Chromium	ND.	A	200.0	214.0	A	107	75-125	
Cobalt	5.334	A	500.0	528.1	A	105	75-125	
Copper	0.7323	A	250.0	263.8	A	105	75-125	
Iron	23010	R	1000	23250	R	24	75-125	:
Lead	ND	A	100.0	96.11	A	96	75-125	
Magnesium	51320	R	20000	69870	R	93	75-125	
Manganese	98.33	A	50.00	151.0	A	105	75-125	
Molybdenum	2.918	A	400.0	444.2	A	110	75-125	
Nickel	6.978	A	500.0	522.9	A	103	75-125	
Potassium	1789	R	10000	12270	R	105	75-125	
Selenium	ND	A	100.0	113.4	A	113	75-125	
Silver	ND	A	50.00	51.01	A	102	75-125	
Thallium	3.210	A	100.0	104.3	A	101	75-125	
Vanadium	2.527	A	500.0	549.7	A	109	75-125	
Zinc	39.55	A	500.0	595.8	A	111	75-125	
Boron	733.6	A	1000	1877	A	114	75-125	
Tin	ND	A	1000	1093	A	109	75-125	
Titanium	ND	A	1000	1113	A	111	75-125	

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	2508047	2344672	-6.51

MISSING READINGS: **AS NA**

:=recovery not meaningful

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56230032001
Units : ug/L

Date : 08-JUN-2006 18:03
X Axis : R

Reviewer: ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	f0817004	56230032004	CS1	08-JUN-2006 18:09	S3608
L2	f0817005	56230032005	CS2	08-JUN-2006 18:14	S3609
L3	f0817006	56230032006	CS3	08-JUN-2006 18:20	S3610
L4	f0817007	56230032007	CS4	08-JUN-2006 18:26	S3611
L5	f0817008	56230032008	CS5	08-JUN-2006 18:31	S3605
L6	f0817009	56230032009	CS6	08-JUN-2006 18:37	S3606

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		5.0704	3.0730	0.5542	0.3602	0.4339	BLNK	-5.3138	2.46246		1.8983	**0.989**	0.995	r2 ***
Antimony	0.2479	0.2410	0.2354	0.2083	0.2111	0.2155	BLNK	-0.0493	4.66076		0.2265	1.000	0.995	
Arsenic		0.4063	0.3509	0.3393	0.3501	0.3559	BLNK	-0.0093	2.81957		0.3605	1.000	0.995	
Barium	0.1117	0.1008	0.0881	0.0832	0.0828	0.0844	BLNK	-0.0662	11.9035		0.0918	1.000	0.995	
Beryllium	0.1169	0.1061	0.1070	0.0940	0.0952	0.0989	BLNK	-0.0743	10.1912		0.1030	1.000	0.995	
Cadmium	0.5672	0.4341	0.3811	0.2962	0.2982	0.2906	BLNK	-0.2040	3.42778		0.3779	1.000	0.995	
Calcium		0.0284	0.0277	0.0156	0.0156	0.0157	BLNK	-38.354	63.9156		0.0206	1.000	0.995	
Chromium		7.2021	4.9404	2.8002	2.6962	2.8540	BLNK	-0.7454	0.35594		4.0986	0.999	0.995	
Cobalt	3.7322	3.4489	3.2672	2.9012	2.9556	3.2036	BLNK	-0.0357	0.31718		3.2514	0.999	0.995	
Copper		1.1784	1.0623	0.7125	0.7023	0.6992	BLNK	-0.3210	1.43167		0.8710	1.000	0.995	
Iron		0.1719	0.1250	0.0746	0.0788	0.0766	BLNK	-60.346	13.0293		0.1054	1.000	0.995	
Lead	0.9981	0.9230	0.8890	0.8103	0.8236	0.8353	BLNK	-0.0413	1.20091		0.8799	1.000	0.995	
Magnesium		0.0526	0.0496	0.0430	0.0452	0.0495	BLNK	-6.8992	20.5663		0.0480	0.998	0.995	
Manganese	5.8938	4.7966	4.3230	3.5200	3.8857	3.8029	BLNK	-0.1122	0.26204		4.3703	1.000	0.995	
Molybdenum		0.8588	0.8037	0.6531	0.6723	0.6683	BLNK	-0.1146	1.49563		0.7313	1.000	0.995	
Nickel	1.4700	1.0393	0.8997	0.6480	0.6409	0.6404	BLNK	-0.2702	1.56396		0.8897	1.000	0.995	
Potassium		1.7902	1.1801	0.5278	0.4666	0.4717	BLNK	-132.24	2.14148		0.8873	1.000	0.995	
Selenium		0.0340	0.0249	0.0234	0.0228	0.0227	BLNK	-0.5322	44.1593		0.0256	1.000	0.995	
Silver	1.7129	1.5899	1.5332	1.4188	1.4570	1.4178	BLNK	-0.0238	0.70154		1.5216	1.000	0.995	
Sodium		0.8598	0.8016	0.5310	0.5049	0.5594	BLNK	-28.951	1.82650		0.6513	0.997	0.995	
Thallium		0.6657	0.6513	0.5505	0.5921	0.6642	BLNK	-0.1050	1.54039		0.6248	0.997	0.995	
Vanadium		4.4055	4.0156	3.0319	3.1401	3.4208	BLNK	-0.2089	0.29765		3.6028	0.998	0.995	
Zinc		2.1725	2.4082	0.4450	0.3762	0.3708	BLNK	-2.2205	2.72482		1.1545	1.000	0.995	

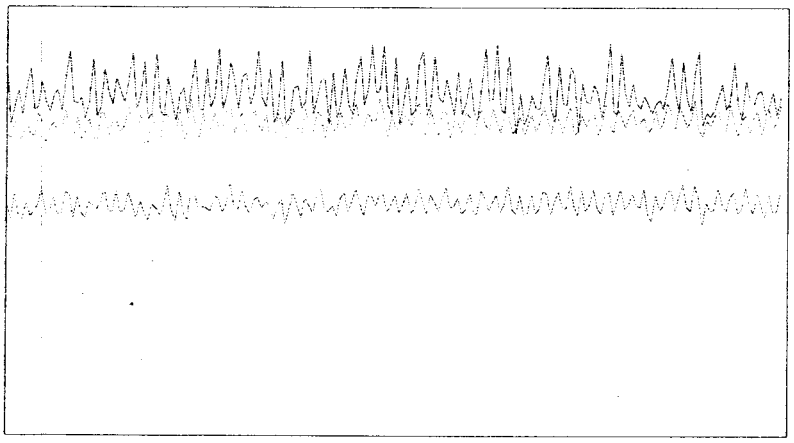
305

r2=ICAL r^2 failure

Instrument amount = a0 + response * a1 + response^2 * a2; BLNK=Y=aX+[blank]

Tune Report

Tune File : ATUNE.U



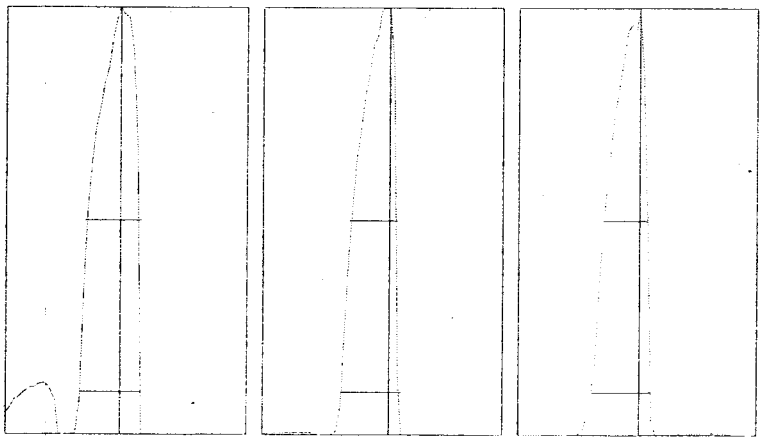
m/z:	7	89	205
Range:	20,000	50,000	20,000
Count:	15,876	28,751	15,522
Mean:	15994.5	27173.1	14636.0
RSD%:	6.25	4.23	3.47
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.34%
Doubly Charged:	70/140	1.13%

Background:

m/z:	7	89	205
Cps:	49.8	17.6	19.5



m/z:	7	89	205
Height:	15,878	27,458	14,911
Axis:	6.95	89.10	205.05
W-50%:	0.70	0.60	0.55
W-10%:	0.7500	0.7500	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1300 W	Extract 1:	-150 V	AMU Gain:	131
RF Matching:	1.7 V	Extract 2:	-110 V	AMU Offset:	125
Smpl Depth:	8 mm	Einzel 1,3:	-160 V	Axis Gain:	0.9993
Torch-H:	-0.1 mm	Einzel 2:	7 V	Axis Offset:	-0.08
Torch-V:	0.2 mm	Omega Bias:	-55 V	QP Bias:	1.6 V
Carrier Gas:	1.06 L/min	Omega (+):	5 V		
Makeup Gas:	0 L/min	Omega (-):	-5 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	8 V	Discriminator:	9.1 mV
PeriPump1:	0.1 rps	Plate Bias:	-5 V	Analog HV:	1790 V
PeriPump2:	--- rps			Pulse HV:	1450 V
S/C Temp:	2 degC				

Generated : Jun 08, 2006 13:39:46
Printed : Jun 08, 2006 13:39:52

P/A Factor Tuning Report

Acquired:Jun 8 2006 01:48 pm

Mass[amu]	Element	P/A Factor
6	Li	0.076367
9	Be	0.083439
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.098113
39	K	0.090561
43	Ca	0.098712
44	Ca	Sensitivity too high
45	Sc	0.097662
51	V	0.101440
52	Cr	0.101780
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.103641
57	Fe	Sensitivity too high
59	Co	0.104294
60	Ni	0.101235
63	Cu	0.103017
65	Cu	0.101494
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.100231
95	Mo	0.099156
98	Mo	0.100257
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.101003
111	Cd	Sensitivity too low
114	Cd	0.100478
115	In	0.100928
118	(In)	Sensitivity too high
121	Sb	0.102823
135	Ba	Sensitivity too low
137	Ba	0.102006
159	Tb	0.103083
166	Er	Sensitivity too low

205	Tl	0.103602
206	(Pb)	0.101891
207	(Pb)	0.100967
208	Pb	0.102948
209	Bi	0.100590

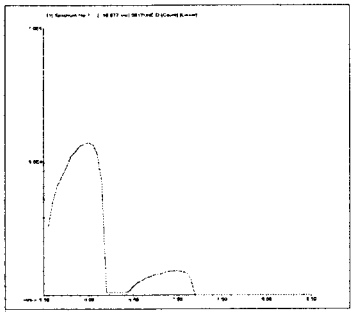
===Detector Parameters===
Discriminator: 9.1 mV
Analog HV: 1790 V
Pulse HV: 1450 V

6020 QC Tune Report

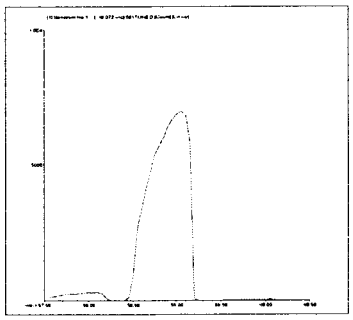
Data File: C:\ICPCHEM\1\DATA\06F0817a.B\001TUNE.D
Date Acquired: Jun 8 2006 05:52 pm
Acq. Method: TN6020.M
Operator:
Sample Name: tun,s3622
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

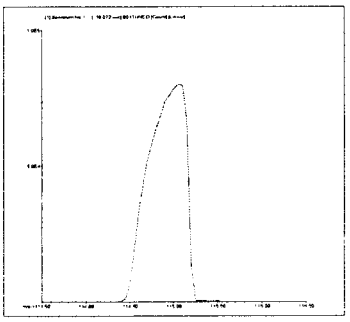
Element	Actual	Required	Flag
7 Li	3.94	5.00	
59 Co	1.14	5.00	
115 In	3.01	5.00	
205 Tl	0.85	5.00	



7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



115 In

Mass Calib.

Actual: 115.05

Required: 114.90 - 115.10

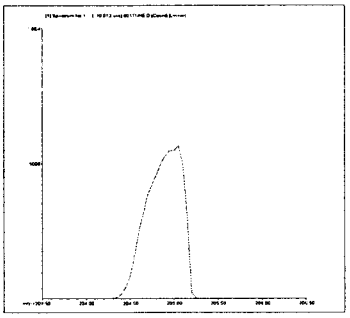
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



205 Tl

Mass Calib.

Actual: 205.05

Required: 204.90 - 205.10

Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06F0817a.B\003CAL
Date Acquired: Jun 8 2006 06:03 pm
Operator:
Sample Name: std-blk
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\602001
Last Cal Update: Jun 08 2006 02:46 pm
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	549412.13	M	10570.00	1.92
9	Be	80.00	P	12.02	15.03
23	Na	160372.20	P	3461.00	2.16
26	Mg	3393.33	P	234.00	6.90
27	Al	21835.55	P	632.50	2.90
39	K	624850.00	P	17210.00	2.75
44	Ca	6071.93	P	213.50	3.52
45	Sc	505888.91	P	8305.00	1.64
51	V	1519.30	P	617.90	40.67
52	Cr	4525.56	P	200.00	4.42
55	Mn	925.56	P	62.57	6.76
57	Fe	10010.00	P	328.80	3.28
59	Co	243.33	P	18.56	7.63
60	Ni	373.33	P	24.04	6.44
65	Cu	484.43	P	49.93	10.31
66	Zn	1761.11	P	30.25	1.72
72	Ge	108049.60	P	861.40	0.80
75	As	6.96	P	46.52	668.61
82	Se	26.00	P	9.02	34.69
95	Mo	165.56	P	5.09	3.08
109	Ag	73.33	P	23.33	31.81
111	Cd	128.75	P	29.93	23.25
115	In	668072.19	P	7649.00	1.14
121	Sb	141.11	P	20.09	14.24
137	Ba	74.44	P	18.36	24.66
205	Tl	612.22	P	32.89	5.37
208	Pb	308.89	P	36.72	11.89
209	Bi	448984.41	P	6184.00	1.38

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0817a.B\004CALI.D\004CALI.D#
Date Acquired: Jun 8 2006 06:09 pm
Operator:
Sample Name: cs1,s3608
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 08 2006 06:05 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	545448.50	M	7854.00	1.44
9 Be	318.89	P	10.72	3.36
23 Na	287860.00	P	4209.00	1.46
26 Mg	14157.78	P	445.30	3.15
27 Al	21750.00	P	785.60	3.61
39 K	763692.38	A	4747.00	0.62
44 Ca	10195.36	P	93.15	0.91
45 Sc	503258.91	P	9305.00	1.85
51 V	2672.63	P	348.80	13.05
52 Cr	5832.22	P	65.01	1.11
55 Mn	3181.11	P	65.35	2.05
57 Fe	13986.67	P	346.50	2.48
59 Co	2014.44	P	17.11	0.85
60 Ni	793.33	P	76.67	9.66
65 Cu	1019.94	P	49.78	4.88
66 Zn	2965.56	P	47.18	1.59
72 Ge	107961.10	P	1144.00	1.06
75 As	247.80	P	118.00	47.62
82 Se	37.78	P	7.95	21.06
95 Mo	611.11	P	90.76	14.85
109 Ag	924.44	P	59.75	6.46
111 Cd	305.74	P	67.50	22.08
115 In	666624.19	P	8301.00	1.25
121 Sb	826.67	P	58.12	7.03
137 Ba	372.22	P	3.85	1.03
205 Tl	1906.67	P	98.21	5.15
208 Pb	2258.89	P	115.00	5.09
209 Bi	452522.19	P	4322.00	0.96

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	545448.44	1.44	549412.13	99.3	80 - 120	

45	Sc	503258.88	1.85	505888.88	99.5	80 -	120
72	Ge	107961.12	1.06	108049.55	99.9	80 -	120
115	In	666624.19	1.25	668072.19	99.8	80 -	120
209	Bi	452522.22	0.96	448984.41	100.8	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0817a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0817a.B\005CALI.D\005CALI.D#
Date Acquired: Jun 8 2006 06:14 pm
Operator:
Sample Name: cs2,s3609
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 08 2006 06:10 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	544241.13	P	3141.00	0.58
9 Be	577.78	P	43.50	7.53
23 Na	428624.41	P	5923.00	1.38
26 Mg	26241.11	P	144.70	0.55
27 Al	25278.89	P	528.20	2.09
39 K	892462.38	A	10300.00	1.15
44 Ca	14158.15	P	416.80	2.94
45 Sc	498524.41	P	5677.00	1.14
51 V	4747.43	P	37.48	0.79
52 Cr	7761.11	P	220.40	2.84
55 Mn	5168.89	P	151.70	2.93
57 Fe	18523.33	P	89.50	0.48
59 Co	3716.67	P	217.60	5.85
60 Ni	1120.00	P	71.72	6.40
65 Cu	1269.88	P	17.32	1.36
66 Zn	2341.11	P	70.42	3.01
72 Ge	107760.90	P	145.20	0.13
75 As	437.83	P	21.84	4.99
82 Se	36.67	P	11.14	30.38
95 Mo	925.56	P	137.70	14.88
109 Ag	1713.33	P	145.00	8.46
111 Cd	467.74	P	13.31	2.85
115 In	661405.69	P	5235.00	0.79
121 Sb	1594.44	P	48.57	3.05
137 Ba	666.67	P	21.86	3.28
205 Tl	2978.89	P	111.70	3.75
208 Pb	4128.89	P	28.35	0.69
209 Bi	447377.69	P	4636.00	1.04

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	544241.06	0.58	549412.13	99.1	80 - 120	

45	Sc	498524.41	1.14	505888.88	98.5	80 -	120
72	Ge	107760.88	0.13	108049.55	99.7	80 -	120
115	In	661405.63	0.79	668072.19	99.0	80 -	120
209	Bi	447377.75	1.04	448984.41	99.6	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0817a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0817a.B\006CALI.D\006CALI.D#
Date Acquired: Jun 8 2006 06:20 pm
Operator:
Sample Name: cs3,s3610
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 08 2006 06:16 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	537352.19	P	4380.00	0.82
9	Be	1150.00	P	27.28	2.37
23	Na	779122.38	A	23030.00	2.96
26	Mg	48238.89	P	296.70	0.62
27	Al	29863.33	P	569.50	1.91
39	K	1146740.00	A	12300.00	1.07
44	Ca	26877.32	P	524.80	1.95
45	Sc	485931.09	P	9923.00	2.04
51	V	8533.80	P	411.00	4.82
52	Cr	10498.89	P	111.00	1.06
55	Mn	9187.78	P	162.70	1.77
57	Fe	26566.67	P	436.80	1.64
59	Co	6943.33	P	32.15	0.46
60	Ni	1912.22	P	128.10	6.70
65	Cu	2257.56	P	51.68	2.29
66	Zn	5117.78	P	54.19	1.06
72	Ge	106264.70	P	1273.00	1.20
75	As	745.92	P	17.97	2.41
82	Se	52.89	P	2.14	4.05
95	Mo	1707.78	P	46.83	2.74
109	Ag	3257.78	P	45.26	1.39
111	Cd	809.11	P	89.81	11.10
115	In	643145.00	P	7038.00	1.09
121	Sb	3027.78	P	73.96	2.44
137	Ba	1132.22	P	67.69	5.98
205	Tl	5650.00	P	146.20	2.59
208	Pb	7711.11	P	246.10	3.19
209	Bi	433714.41	P	5692.00	1.31

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	537352.19	0.82	549412.13	97.8	80 - 120	

45 Sc	485931.06	2.04	505888.88	96.1	80 -	120
72 Ge	106264.66	1.20	108049.55	98.3	80 -	120
115 In	643145.00	1.09	668072.19	96.3	80 -	120
209 Bi	433714.44	1.31	448984.41	96.6	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0817a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0817a.B\007CALI.D\007CALI.D#
Date Acquired: Jun 8 2006 06:26 pm
Operator:
Sample Name: cs4,s3611
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 08 2006 06:22 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	556878.13	A	4624.00	0.83
9 Be	10470.00	P	86.22	0.82
23 Na	5360684.00	A	126300.00	2.36
26 Mg	434495.50	P	3477.00	0.80
27 Al	55944.44	P	755.40	1.35
39 K	5328686.00	A	65810.00	1.24
44 Ca	157082.30	P	3897.00	2.48
45 Sc	504765.59	P	7335.00	1.45
51 V	69116.61	P	973.60	1.41
52 Cr	63834.44	P	890.10	1.39
55 Mn	80245.55	P	901.70	1.12
57 Fe	170161.09	P	1990.00	1.17
59 Co	66135.55	P	1030.00	1.56
60 Ni	14776.67	P	158.80	1.07
65 Cu	16244.72	P	97.14	0.60
66 Zn	10142.22	P	339.30	3.35
72 Ge	114027.30	P	2162.00	1.90
75 As	7736.95	P	112.30	1.45
82 Se	532.44	P	18.53	3.48
95 Mo	14892.22	P	140.10	0.94
109 Ag	32346.67	P	527.40	1.63
111 Cd	6755.16	P	315.90	4.68
115 In	668728.81	P	9741.00	1.46
121 Sb	27857.78	P	698.00	2.51
137 Ba	11122.22	P	164.10	1.48
205 Tl	49904.44	P	2186.00	4.38
208 Pb	73438.88	P	1167.00	1.59
209 Bi	453170.00	P	6048.00	1.33

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	556878.13	0.83	549412.13	101.4	80 - 120	

45	Sc	504765.56	1.45	505888.88	99.8	80 -	120
72	Ge	114027.34	1.90	108049.55	105.5	80 -	120
115	In	668728.81	1.46	668072.19	100.1	80 -	120
209	Bi	453169.97	1.33	448984.41	100.9	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0817a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0817a.B\008CALI.D\008CALI.D#
Date Acquired: Jun 8 2006 06:31 pm
Operator:
Sample Name: cs5,s3605
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 08 2006 06:27 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	547418.69	M	6262.00	1.14
9	Be	104243.30	P	296.70	0.28
23	Na	50760272.00	A	607800.00	1.20
26	Mg	4543369.00	A	55600.00	1.22
27	Al	362228.91	P	5088.00	1.40
39	K	46918408.00	A	511300.00	1.09
44	Ca	1570585.00	A	18690.00	1.19
45	Sc	502835.59	P	7113.00	1.41
51	V	693102.13	P	6172.00	0.89
52	Cr	595112.19	P	6025.00	1.01
55	Mn	857639.88	A	2853.00	0.33
57	Fe	1739336.00	A	8578.00	0.49
59	Co	652371.13	P	3053.00	0.47
60	Ni	141456.70	P	2268.00	1.60
65	Cu	155017.20	P	1231.00	0.79
66	Zn	83037.78	P	410.70	0.49
72	Ge	110361.80	P	481.80	0.44
75	As	77277.38	P	672.90	0.87
82	Se	5036.22	P	70.64	1.40
95	Mo	148396.70	P	947.40	0.64
109	Ag	321606.69	P	4435.00	1.38
111	Cd	65825.64	P	887.60	1.35
115	In	655780.31	P	8199.00	1.25
121	Sb	276838.91	P	1013.00	0.37
137	Ba	108628.90	P	1860.00	1.71
205	Tl	527155.63	P	12150.00	2.30
208	Pb	733291.13	P	12570.00	1.71
209	Bi	445134.41	P	3943.00	0.89

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	547418.75	1.14	549412.13	99.6	80 - 120	

45	Sc	502835.56	1.41	505888.88	99.4	80 - 120
72	Ge	110361.78	0.44	108049.55	102.1	80 - 120
115	In	655780.31	1.25	668072.19	98.2	80 - 120
209	Bi	445134.41	0.89	448984.41	99.1	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0817a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0817a.B\009CALI.D\009CALI.D#
Date Acquired: Jun 8 2006 06:37 pm
Operator:
Sample Name: cs6,s3606
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 08 2006 06:33 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	597827.63	M	5511.00	0.92
9	Be	236535.50	P	1476.00	0.62
23	Na	114576800.00	A	431400.00	0.38
26	Mg	10142220.00	A	40900.00	0.40
27	Al	888688.38	A	8647.00	0.97
39	K	96611072.00	A	455400.00	0.47
44	Ca	3215710.00	A	44220.00	1.38
45	Sc	512092.19	P	7727.00	1.51
51	V	1610018.00	A	13890.00	0.86
52	Cr	1343276.00	A	17660.00	1.31
55	Mn	1789757.00	A	4356.00	0.24
57	Fe	3605197.00	A	30900.00	0.86
59	Co	1507713.00	A	8421.00	0.56
60	Ni	301377.81	P	2624.00	0.87
65	Cu	329087.50	P	1484.00	0.45
66	Zn	174507.80	P	1160.00	0.66
72	Ge	117662.40	P	805.40	0.68
75	As	167492.41	P	1844.00	1.10
82	Se	10681.33	P	121.90	1.14
95	Mo	314546.69	P	3014.00	0.96
109	Ag	667300.00	P	4664.00	0.70
111	Cd	136755.50	P	1841.00	1.35
115	In	668421.69	P	8219.00	1.23
121	Sb	576210.00	P	4453.00	0.77
137	Ba	225517.80	P	1816.00	0.81
205	Tl	1204869.00	A	2888.00	0.24
208	Pb	1515227.00	P	19980.00	1.32
209	Bi	453502.19	P	4792.00	1.06

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	597827.63	0.92	549412.13	108.8	80 - 120	

45	Sc	512092.22	1.51	505888.88	101.2	80 -	120
72	Ge	117662.45	0.68	108049.55	108.9	80 -	120
115	In	668421.69	1.23	668072.19	100.1	80 -	120
209	Bi	453502.22	1.06	448984.41	101.0	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0817a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Summary

Calibration : C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Calib: Jun 08, 2006 18:38
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\06f0817a.b\003calb.d\	003calb.d#	Jun 8 2006 06:03 pm
2	...hem\1\data\06f0817a.b\004cali.d\	004cali.d#	Jun 8 2006 06:09 pm
3	...hem\1\data\06f0817a.b\005cali.d\	005cali.d#	Jun 8 2006 06:14 pm
4	...hem\1\data\06f0817a.b\006cali.d\	006cali.d#	Jun 8 2006 06:20 pm
5	...hem\1\data\06f0817a.b\007cali.d\	007cali.d#	Jun 8 2006 06:26 pm
6	...hem\1\data\06f0817a.b\008cali.d\	008cali.d#	Jun 8 2006 06:31 pm
7	...hem\1\data\06f0817a.b\009cali.d\	009cali.d#	Jun 8 2006 06:37 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	Excluded	---	ppb
Be	9	6	Y = 9.812E-2*X +7.286E-3(blank)	---	ppb
Na	23	45	Y = 5.475E-1*X +1.585E+1(blank)	---	ppb
Mg	25	45	Excluded	---	ppb
Mg	26	45	Y = 4.862E-2*X +3.355E-1(blank)	---	ppb
Al	27	45	Y = 4.061E-1*X +2.158E+0(blank)	---	ppb
K	39	45	Y = 4.670E-1*X +6.175E+1(blank)	---	ppb
Ca	43	45	Excluded	---	ppb
Ca	44	45	Y = 1.565E-2*X +6.001E-1(blank)	---	ppb
Sc	45	---	Excluded	---	ppb
V	51	72	Y = 3.360E+0*X +7.018E-1(blank)	---	ppb
Cr	52	72	Y = 2.809E+0*X +2.094E+0(blank)	---	ppb
Cr	53	72	Excluded	---	ppb
Fe	54	72	Excluded	---	ppb
Mn	55	72	Y = 3.816E+0*X +4.282E-1(blank)	---	ppb
Fe	57	72	Y = 7.675E-2*X +4.632E+0(blank)	---	ppb
Co	59	72	Y = 3.153E+0*X +1.126E-1(blank)	---	ppb
Ni	60	72	Y = 6.394E-1*X +1.728E-1(blank)	---	ppb
Cu	63	72	Excluded	---	ppb
Cu	65	72	Y = 6.985E-1*X +2.242E-1(blank)	---	ppb
Zn	66	72	Y = 3.670E-1*X +8.149E-1(blank)	---	ppb
Ge	72	---	Excluded	---	ppb
As	75	72	Y = 3.547E-1*X +3.288E-3(blank)	---	ppb
(As)	77	72	Excluded	---	ppb
Se	82	72	Y = 2.265E-2*X +1.205E-2(blank)	---	ppb
(As)	83	72	Excluded	---	ppb
(Ca)	88	72	Excluded	---	ppb
Y	89	72	Excluded	---	ppb
Mo	95	72	Y = 6.686E-1*X +7.660E-2(blank)	---	ppb
Mo	98	72	Excluded	---	ppb
(Mo)	99	72	Excluded	---	ppb
(Cd)	106	72	Excluded	---	ppb
(Cd)	108	72	Excluded	---	ppb
Ag	109	72	Y = 1.425E+0*X +3.388E-2(blank)	---	ppb
Cd	111	72	Y = 2.917E-1*X +5.952E-2(blank)	---	ppb
Cd	114	72	Excluded	---	ppb
In	115	---	Excluded	---	ppb
(In)	118	---	Excluded	---	ppb
Sb	121	115	Y = 2.146E-1*X +1.057E-2(blank)	---	ppb
Ba	135	115	Excluded	---	ppb
Ba	137	115	Y = 8.401E-2*X +5.563E-3(blank)	---	ppb
Tb	159	---	Excluded	---	ppb
Er	166	115	Excluded	---	ppb
Tl	205	209	Y = 6.492E-1*X +6.819E-2(blank)	---	ppb
(Pb)	206	209	Excluded	---	ppb
(Pb)	207	209	Excluded	---	ppb
Pb	208	209	Y = 8.327E-1*X +3.437E-2(blank)	---	ppb
Bi	209	---	Excluded	---	ppb
Th	232	209	--------	---	ppb
U	238	209	--------	---	ppb

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05
Seqnum : 56230032010 File : f0817010
Cal : 56230032001 Caldate: 08-JUN-2006
Standards: S3601

IDF : 1.0
Time : 08-JUN-2006 18:42

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	1.8983	0.4294	100.0	100.4	ug/L	0	10	
Antimony	0.2265	0.2177	100.0	101.4	ug/L	1	10	
Arsenic	0.3605	0.3680	100.0	103.8	ug/L	4	10	
Barium	0.0918	0.0856	100.0	101.8	ug/L	2	10	
Beryllium	0.1030	0.1017	100.0	103.6	ug/L	4	10	
Cadmium	0.3779	0.2999	100.0	102.6	ug/L	3	10	
Calcium	0.0206	0.0162	10000	10330	ug/L	3	10	
Chromium	4.0986	2.7346	100.0	96.59	ug/L	-3	10	
Cobalt	3.2514	3.0502	100.0	96.71	ug/L	-3	10	
Copper	0.8710	0.7255	100.0	103.5	ug/L	4	10	
Iron	0.1054	0.0808	10000	10470	ug/L	5	10	
Lead	0.8799	0.8382	100.0	100.6	ug/L	1	10	
Magnesium	0.0480	0.0516	10000	10610	ug/L	6	10	
Manganese	4.3703	3.9577	100.0	103.6	ug/L	4	10	
Molybdenum	0.7313	0.6766	100.0	101.1	ug/L	1	10	
Nickel	0.8897	0.6542	100.0	102.0	ug/L	2	10	
Potassium	0.8873	0.4865	10000	10290	ug/L	3	10	
Selenium	0.0256	0.0237	100.0	103.9	ug/L	4	10	
Silver	1.5216	1.4655	100.0	102.8	ug/L	3	10	
Sodium	0.6513	0.5811	10000	10580	ug/L	6	10	
Thallium	0.6248	0.6717	50.00	51.63	ug/L	3	10	
Vanadium	3.6028	3.1597	100.0	93.84	ug/L	-6	10	
Zinc	1.1545	0.3896	100.0	104.0	ug/L	4	10	

ISTD (ICALBLK f0817003)	ICALBLK Abund	Abund	%Drift
Lithium	549412	601981	9.57
Scandium	505889	512679	1.34
Germanium	108050	117162	8.43
Indium	668072	667338	-0.11
Bismuth	448984	458861	2.20

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56230032029 File : f0817029 Time : 08-JUN-2006 20:29
Cal : 56230032001 Caldate: 08-JUN-2006
Standards: S3621

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.8983	0.4183	150.0	149.2	ug/L	-1	10	r2 ***
Antimony	0.2265	0.2066	150.0	144.4	ug/L	-4	10	
Arsenic	0.3605	0.3468	150.0	146.7	ug/L	-2	10	
Barium	0.0918	0.0817	150.0	145.9	ug/L	-3	10	
Beryllium	0.1030	0.0983	150.0	150.1	ug/L	0	10	
Cadmium	0.3779	0.2821	150.0	144.8	ug/L	-3	10	
Calcium	0.0206	0.0155	15000	14840	ug/L	-1	10	
Chromium	4.0986	2.7960	150.0	148.5	ug/L	-1	10	
Cobalt	3.2514	3.1939	150.0	151.9	ug/L	1	10	
Copper	0.8710	0.6879	150.0	147.4	ug/L	-2	10	
Iron	0.1054	0.0761	15000	14820	ug/L	-1	10	
Lead	0.8799	0.8071	150.0	145.3	ug/L	-3	10	
Magnesium	0.0480	0.0498	15000	15360	ug/L	2	10	
Manganese	4.3703	3.7339	150.0	146.7	ug/L	-2	10	
Molybdenum	0.7313	0.6445	150.0	144.5	ug/L	-4	10	
Nickel	0.8897	0.6289	150.0	147.3	ug/L	-2	10	
Potassium	0.8873	0.4611	15000	14680	ug/L	-2	10	
Selenium	0.0256	0.0223	150.0	147.2	ug/L	-2	10	
Silver	1.5216	1.3810	150.0	145.3	ug/L	-3	10	
Sodium	0.6513	0.5624	15000	15380	ug/L	3	10	
Thallium	0.6248	0.6063	150.0	140.0	ug/L	-7	10	
Vanadium	3.6028	3.3515	150.0	149.4	ug/L	0	10	
Zinc	1.1545	0.3660	150.0	147.4	ug/L	-2	10	

ISTD (ICALBLK f0817003)	ICALBLK Abund	Abund	%Drift
Lithium	549412	574099	4.49
Scandium	505889	488772	-3.38
Germanium	108050	112454	4.08
Indium	668072	640358	-4.15
Bismuth	448984	426673	-4.97

r2=ICAL r^2 failure

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56230032044 File : f0817044 Time : 08-JUN-2006 21:54
Cal : 56230032001 Caldate: 08-JUN-2006
Standards: S3621

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.8983	0.4288	150.0	153.1	ug/L	2	10	r2 ***
Antimony	0.2265	0.2055	150.0	143.6	ug/L	-4	10	
Arsenic	0.3605	0.3454	150.0	146.1	ug/L	-3	10	
Barium	0.0918	0.0815	150.0	145.4	ug/L	-3	10	
Beryllium	0.1030	0.0982	150.0	150.0	ug/L	0	10	
Cadmium	0.3779	0.2823	150.0	145.0	ug/L	-3	10	
Calcium	0.0206	0.0156	15000	14910	ug/L	-1	10	
Chromium	4.0986	2.8308	150.0	150.4	ug/L	0	10	
Cobalt	3.2514	3.1928	150.0	151.9	ug/L	1	10	
Copper	0.8710	0.6903	150.0	147.9	ug/L	-1	10	
Iron	0.1054	0.0771	15000	15000	ug/L	0	10	
Lead	0.8799	0.8066	150.0	145.3	ug/L	-3	10	
Magnesium	0.0480	0.0486	15000	14990	ug/L	0	10	
Manganese	4.3703	3.8332	150.0	150.6	ug/L	0	10	
Molybdenum	0.7313	0.6435	150.0	144.2	ug/L	-4	10	
Nickel	0.8897	0.6268	150.0	146.8	ug/L	-2	10	
Potassium	0.8873	0.4639	15000	14770	ug/L	-2	10	
Selenium	0.0256	0.0223	150.0	147.3	ug/L	-2	10	
Silver	1.5216	1.3836	150.0	145.6	ug/L	-3	10	
Sodium	0.6513	0.5447	15000	14890	ug/L	-1	10	
Thallium	0.6248	0.6075	150.0	140.3	ug/L	-6	10	
Vanadium	3.6028	3.4057	150.0	151.8	ug/L	1	10	
Zinc	1.1545	0.3664	150.0	147.5	ug/L	-2	10	

ISTD (ICALBLK f0817003)	ICALBLK Abund	Abund	%Drift
Lithium	549412	544292	-0.93
Scandium	505889	480371	-5.04
Germanium	108050	109086	0.96
Indium	668072	622260	-6.86
Bismuth	448984	409860	-8.71

r2=ICAL r^2 failure

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56230032052 File : f0817052 Time : 08-JUN-2006 22:38
Cal : 56230032001 Caldate: 08-JUN-2006
Standards: S3621

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.8983	0.3816	150.0	135.6	ug/L	-10	10	r2 ***
Antimony	0.2265	0.2074	150.0	144.9	ug/L	-3	10	
Arsenic	0.3605	0.3486	150.0	147.4	ug/L	-2	10	
Barium	0.0918	0.0827	150.0	147.7	ug/L	-2	10	
Beryllium	0.1030	0.0988	150.0	151.0	ug/L	1	10	
Cadmium	0.3779	0.2963	150.0	152.1	ug/L	1	10	
Calcium	0.0206	0.0157	15000	15030	ug/L	0	10	
Chromium	4.0986	2.8568	150.0	151.8	ug/L	1	10	
Cobalt	3.2514	3.2188	150.0	153.1	ug/L	2	10	
Copper	0.8710	0.6945	150.0	148.8	ug/L	-1	10	
Iron	0.1054	0.0785	15000	15280	ug/L	2	10	
Lead	0.8799	0.8028	150.0	144.6	ug/L	-4	10	
Magnesium	0.0480	0.0456	15000	14070	ug/L	-6	10	
Manganese	4.3703	3.8845	150.0	152.6	ug/L	2	10	
Molybdenum	0.7313	0.6594	150.0	147.8	ug/L	-1	10	
Nickel	0.8897	0.6348	150.0	148.6	ug/L	-1	10	
Potassium	0.8873	0.4530	15000	14420	ug/L	-4	10	
Selenium	0.0256	0.0224	150.0	147.9	ug/L	-1	10	
Silver	1.5216	1.4404	150.0	151.5	ug/L	1	10	
Sodium	0.6513	0.5115	15000	13990	ug/L	-7	10	
Thallium	0.6248	0.6042	150.0	139.5	ug/L	-7	10	
Vanadium	3.6028	3.4729	150.0	154.8	ug/L	3	10	
Zinc	1.1545	0.3716	150.0	149.7	ug/L	0	10	

ISTD (ICALBLK f0817003)	ICALBLK Abund	Abund	%Drift
Lithium	549412	493122	-10.25
Scandium	505889	451868	-10.68
Germanium	108050	101756	-5.82
Indium	668072	606161	-9.27
Bismuth	448984	396420	-11.71

r2=ICAL r^2 failure

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56230032069 File : f0817069 Time : 09-JUN-2006 00:13
Cal : 56230032001 Caldate: 08-JUN-2006
Standards: S3621

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.8983	0.5532	150.0	199.0	ug/L	**33**	10	c+ r2 ***
Antimony	0.2265	0.2037	150.0	142.4	ug/L	-5	10	
Arsenic	0.3605	0.3474	150.0	146.9	ug/L	-2	10	
Barium	0.0918	0.0803	150.0	143.2	ug/L	-5	10	
Beryllium	0.1030	0.1044	150.0	159.6	ug/L	6	10	
Cadmium	0.3779	0.2676	150.0	137.4	ug/L	-8	10	
Calcium	0.0206	0.0155	15000	14820	ug/L	-1	10	
Chromium	4.0986	2.6307	150.0	139.7	ug/L	-7	10	
Cobalt	3.2514	3.1145	150.0	148.1	ug/L	-1	10	
Copper	0.8710	0.6868	150.0	147.2	ug/L	-2	10	
Iron	0.1054	0.0736	15000	14320	ug/L	-5	10	
Lead	0.8799	0.7963	150.0	143.4	ug/L	-4	10	
Magnesium	0.0480	0.0581	15000	17900	ug/L	**19**	10	c+ ***
Manganese	4.3703	3.5702	150.0	140.2	ug/L	-7	10	
Molybdenum	0.7313	0.6125	150.0	137.3	ug/L	-8	10	
Nickel	0.8897	0.6134	150.0	143.6	ug/L	-4	10	
Potassium	0.8873	0.4713	15000	15010	ug/L	0	10	
Selenium	0.0256	0.0218	150.0	143.8	ug/L	-4	10	
Silver	1.5216	1.3143	150.0	138.3	ug/L	-8	10	
Sodium	0.6513	0.6502	15000	17790	ug/L	**19**	10	c+ ***
Thallium	0.6248	0.6059	150.0	139.9	ug/L	-7	10	
Vanadium	3.6028	3.1996	150.0	142.6	ug/L	-5	10	
Zinc	1.1545	0.3655	150.0	147.2	ug/L	-2	10	

ISTD (ICALBLK f0817003)	ICALBLK Abund	Abund	%Drift
Lithium	549412	592070	7.76
Scandium	505889	475311	-6.04
Germanium	108050	114126	5.62
Indium	668072	619909	-7.21
Bismuth	448984	403127	-10.21

+=high bias c=CCV r2=ICAL r^2 failure

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56230032077 File : f0817077 Time : 09-JUN-2006 00:58
Cal : 56230032001 Caldate: 08-JUN-2006
Standards: S3621

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.8983	0.5340	150.0	191.9	ug/L	**28**	10	c+ r2 ***
Antimony	0.2265	0.2048	150.0	143.1	ug/L	-5	10	
Arsenic	0.3605	0.3453	150.0	146.0	ug/L	-3	10	
Barium	0.0918	0.0822	150.0	146.7	ug/L	-2	10	
Beryllium	0.1030	0.1062	150.0	162.2	ug/L	8	10	
Cadmium	0.3779	0.2709	150.0	139.1	ug/L	-7	10	
Calcium	0.0206	0.0154	15000	14740	ug/L	-2	10	
Chromium	4.0986	2.5055	150.0	133.0	ug/L	**-11**	10	c- ***
Cobalt	3.2514	3.0859	150.0	146.8	ug/L	-2	10	
Copper	0.8710	0.6823	150.0	146.2	ug/L	-3	10	
Iron	0.1054	0.0733	15000	14260	ug/L	-5	10	
Lead	0.8799	0.7904	150.0	142.3	ug/L	-5	10	
Magnesium	0.0480	0.0549	15000	16930	ug/L	**13**	10	c+ ***
Manganese	4.3703	3.5882	150.0	140.9	ug/L	-6	10	
Molybdenum	0.7313	0.6060	150.0	135.8	ug/L	-9	10	
Nickel	0.8897	0.6133	150.0	143.6	ug/L	-4	10	
Potassium	0.8873	0.4621	15000	14710	ug/L	-2	10	
Selenium	0.0256	0.0217	150.0	143.0	ug/L	-5	10	
Silver	1.5216	1.3148	150.0	138.3	ug/L	-8	10	
Sodium	0.6513	0.6146	15000	16810	ug/L	**12**	10	c+ ***
Thallium	0.6248	0.5999	150.0	138.5	ug/L	-8	10	
Vanadium	3.6028	3.1244	150.0	139.3	ug/L	-7	10	
Zinc	1.1545	0.3635	150.0	146.3	ug/L	-2	10	

ISTD (ICALBLK f0817003)	ICALBLK Abund	Abund	%Drift
Lithium	549412	516473	-6.00
Scandium	505889	436607	-13.70
Germanium	108050	105805	-2.08
Indium	668072	581308	-12.99
Bismuth	448984	377842	-15.85

+=high bias -=low bias c=CCV r2=ICAL r^2 failure

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56230032094
Cal : 56230032001
Standards: S3621

File : f0817094
Caldate: 08-JUN-2006

IDF : 1.0
Time : 09-JUN-2006 02:33

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.8983	0.4296	150.0	153.4	ug/L	2	10	r2 ***
Antimony	0.2265	0.2056	150.0	143.7	ug/L	-4	10	
Arsenic	0.3605	0.3404	150.0	144.0	ug/L	-4	10	
Barium	0.0918	0.0817	150.0	145.8	ug/L	-3	10	
Beryllium	0.1030	0.1028	150.0	157.0	ug/L	5	10	
Cadmium	0.3779	0.2726	150.0	140.0	ug/L	-7	10	
Calcium	0.0206	0.0156	15000	14890	ug/L	-1	10	
Chromium	4.0986	2.4967	150.0	132.6	ug/L	**-12**	10	c- ***
Cobalt	3.2514	3.1664	150.0	150.6	ug/L	0	10	
Copper	0.8710	0.6818	150.0	146.1	ug/L	-3	10	
Iron	0.1054	0.0745	15000	14500	ug/L	-3	10	
Lead	0.8799	0.7897	150.0	142.2	ug/L	-5	10	
Magnesium	0.0480	0.0534	15000	16460	ug/L	10	10	
Manganese	4.3703	3.6917	150.0	145.0	ug/L	-3	10	
Molybdenum	0.7313	0.6111	150.0	137.0	ug/L	-9	10	
Nickel	0.8897	0.6186	150.0	144.9	ug/L	-3	10	
Potassium	0.8873	0.4634	15000	14750	ug/L	-2	10	
Selenium	0.0256	0.0214	150.0	141.1	ug/L	-6	10	
Silver	1.5216	1.3280	150.0	139.7	ug/L	-7	10	
Sodium	0.6513	0.5996	15000	16400	ug/L	9	10	
Thallium	0.6248	0.6009	150.0	138.7	ug/L	-8	10	
Vanadium	3.6028	3.1856	150.0	142.0	ug/L	-5	10	
Zinc	1.1545	0.3631	150.0	146.2	ug/L	-3	10	

ISTD (ICALBLK f0817003)	ICALBLK Abund	Abund	%Drift
Lithium	549412	496418	-9.65
Scandium	505889	421513	-16.68
Germanium	108050	100637	-6.86
Indium	668072	558331	-16.43
Bismuth	448984	355809	-20.75

-=low bias c=CCV r2=ICAL r^2 failure

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56230032109 File : f0817109 Time : 09-JUN-2006 03:56
Cal : 56230032001 Caldate: 08-JUN-2006
Standards: S3621

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.8983	0.4665	150.0	167.0	ug/L	**11**	10	c+ r2 ***
Antimony	0.2265	0.2070	150.0	144.6	ug/L	-4	10	
Arsenic	0.3605	0.3364	150.0	142.2	ug/L	-5	10	
Barium	0.0918	0.0828	150.0	147.7	ug/L	-2	10	
Beryllium	0.1030	0.1054	150.0	161.0	ug/L	7	10	
Cadmium	0.3779	0.2632	150.0	135.1	ug/L	-10	10	
Calcium	0.0206	0.0156	15000	14920	ug/L	-1	10	
Chromium	4.0986	2.3910	150.0	126.9	ug/L	**-15**	10	c- ***
Cobalt	3.2514	2.9468	150.0	140.2	ug/L	-7	10	
Copper	0.8710	0.6680	150.0	143.1	ug/L	-5	10	
Iron	0.1054	0.0721	15000	14030	ug/L	-6	10	
Lead	0.8799	0.7876	150.0	141.8	ug/L	-5	10	
Magnesium	0.0480	0.0588	15000	18120	ug/L	**21**	10	c+ ***
Manganese	4.3703	3.5229	150.0	138.4	ug/L	-8	10	
Molybdenum	0.7313	0.5929	150.0	132.9	ug/L	**-11**	10	c- ***
Nickel	0.8897	0.5947	150.0	139.3	ug/L	-7	10	
Potassium	0.8873	0.4719	15000	15030	ug/L	0	10	
Selenium	0.0256	0.0210	150.0	138.9	ug/L	-7	10	
Silver	1.5216	1.2814	150.0	134.8	ug/L	-10	10	
Sodium	0.6513	0.6466	15000	17690	ug/L	**18**	10	c+ ***
Thallium	0.6248	0.5994	150.0	138.4	ug/L	-8	10	
Vanadium	3.6028	3.0692	150.0	136.8	ug/L	-9	10	
Zinc	1.1545	0.3558	150.0	143.2	ug/L	-5	10	

ISTD (ICALBLK f0817003)	ICALBLK Abund	Abund	%Drift
Lithium	549412	487680	-11.24
Scandium	505889	394468	-22.02
Germanium	108050	98341	-8.99
Indium	668072	527795	-21.00
Bismuth	448984	342786	-23.65

+=high bias -=low bias c=CCV r2=ICAL r^2 failure

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56230032116 File : f0817116 Time : 09-JUN-2006 04:36
Cal : 56230032001 Caldate: 08-JUN-2006
Standards: S3621

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.8983	0.4596	150.0	164.4	ug/L	10	10	r2 ***
Antimony	0.2265	0.2039	150.0	142.5	ug/L	-5	10	
Arsenic	0.3605	0.3329	150.0	140.8	ug/L	-6	10	
Barium	0.0918	0.0815	150.0	145.4	ug/L	-3	10	
Beryllium	0.1030	0.1042	150.0	159.3	ug/L	6	10	
Cadmium	0.3779	0.2593	150.0	133.1	ug/L	**-11**	10	c- ***
Calcium	0.0206	0.0154	15000	14760	ug/L	-2	10	
Chromium	4.0986	2.3530	150.0	124.9	ug/L	**-17**	10	c- ***
Cobalt	3.2514	2.9128	150.0	138.5	ug/L	-8	10	
Copper	0.8710	0.6599	150.0	141.4	ug/L	-6	10	
Iron	0.1054	0.0715	15000	13920	ug/L	-7	10	
Lead	0.8799	0.7795	150.0	140.4	ug/L	-6	10	
Magnesium	0.0480	0.0575	15000	17750	ug/L	**18**	10	c+ ***
Manganese	4.3703	3.4781	150.0	136.6	ug/L	-9	10	
Molybdenum	0.7313	0.5817	150.0	130.4	ug/L	**-13**	10	c- ***
Nickel	0.8897	0.5891	150.0	137.9	ug/L	-8	10	
Potassium	0.8873	0.4677	15000	14890	ug/L	-1	10	
Selenium	0.0256	0.0209	150.0	138.1	ug/L	-8	10	
Silver	1.5216	1.2662	150.0	133.2	ug/L	**-11**	10	c- ***
Sodium	0.6513	0.6342	15000	17350	ug/L	**16**	10	c+ ***
Thallium	0.6248	0.5924	150.0	136.8	ug/L	-9	10	
Vanadium	3.6028	3.0235	150.0	134.8	ug/L	-10	10	
Zinc	1.1545	0.3525	150.0	141.8	ug/L	-5	10	

ISTD (ICALBLK f0817003)	ICALBLK Abund	Abund	%Drift
Lithium	549412	491436	-10.55
Scandium	505889	398102	-21.31
Germanium	108050	99205	-8.19
Indium	668072	531965	-20.37
Bismuth	448984	340900	-24.07

+=high bias -=low bias c=CCV r2=ICAL r^2 failure

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56230032013 File : f0817013 Time : 08-JUN-2006 18:59
Cal : 56230032001 Caldate: 08-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1990]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	[0.1748]	0.5000	0.09577	ug/L	!ib

ISTD (ICALBLK f0817003)	ICALBLK Abund	Abund	%Drift
Lithium	549412	605977	10.30
Scandium	505889	516264	2.05
Germanium	108050	116591	7.91
Indium	668072	683273	2.28
Bismuth	448984	465219	3.62

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56230032031 File : f0817031 Time : 08-JUN-2006 20:40
Cal : 56230032001 Caldate: 08-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	3.826	0.5000	2.123	ug/L	ib ***
Antimony	[0.09205]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	[0.04057]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.03263]	0.2500	0.009674	ug/L	!ib
Cadmium	[0.09108]	0.2500	0.04566	ug/L	!ib
Calcium	[12.75]	50.00	7.739	ug/L	!ib
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.04813]	0.2500	0.008548	ug/L	!ib
Copper	[0.07698]	0.5000	0.04426	ug/L	!ib
Iron	[11.83]	50.00	6.980	ug/L	!ib
Lead	[0.04712]	0.2500	0.005283	ug/L	!ib
Magnesium	[10.07]	50.00	3.054	ug/L	!ib
Manganese	[0.07416]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.09046]	0.2500	0.03982	ug/L	!ib
Potassium	[10.63]	50.00	6.379	ug/L	!ib
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.04058]	0.2500	0.01266	ug/L	!ib
Sodium	[15.61]	50.00	9.919	ug/L	!ib
Thallium	[0.08455]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	[0.2143]	0.5000	0.09577	ug/L	!ib

ISTD (ICALBLK f0817003)	ICALBLK Abund	Abund	%Drift
Lithium	549412	582365	6.00
Scandium	505889	483204	-4.48
Germanium	108050	110773	2.52
Indium	668072	643530	-3.67
Bismuth	448984	430426	-4.13

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56230032046 File : f0817046 Time : 08-JUN-2006 22:05
Cal : 56230032001 Caldate: 08-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	0.6187	0.5000	2.123	ug/L	ib ***
Antimony	[0.08331]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	[0.04151]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.02736]	0.2500	0.009674	ug/L	!ib
Cadmium	[0.08541]	0.2500	0.04566	ug/L	!ib
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.04723]	0.2500	0.008548	ug/L	!ib
Copper	[0.05626]	0.5000	0.04426	ug/L	!ib
Iron	ND	50.00	6.980	ug/L	
Lead	[0.04464]	0.2500	0.005283	ug/L	!ib
Magnesium	[5.428]	50.00	3.054	ug/L	!ib
Manganese	[0.1965]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	[9.756]	50.00	6.379	ug/L	!ib
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.04124]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	[0.2078]	0.5000	0.09577	ug/L	!ib

ISTD (ICALBLK f0817003)	ICALBLK Abund	Abund	%Drift
Lithium	549412	568227	3.42
Scandium	505889	484961	-4.14
Germanium	108050	109645	1.48
Indium	668072	638202	-4.47
Bismuth	448984	418868	-6.71

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56230032054 File : f0817054 Time : 08-JUN-2006 22:49
Cal : 56230032001 Caldate: 08-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	3.158	0.5000	2.123	ug/L	ib ***
Antimony	[0.07735]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.2308]	0.5000	0.09029	ug/L	!ib
Barium	[0.04182]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.02218]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	[10.19]	50.00	7.739	ug/L	!ib
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.05038]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	[15.03]	50.00	6.980	ug/L	!ib
Lead	[0.04566]	0.2500	0.005283	ug/L	!ib
Magnesium	[7.390]	50.00	3.054	ug/L	!ib
Manganese	[0.1053]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.06839]	0.2500	0.03982	ug/L	!ib
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.04909]	0.2500	0.01266	ug/L	!ib
Sodium	[12.30]	50.00	9.919	ug/L	!ib
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	[0.1449]	0.5000	0.09577	ug/L	!ib

ISTD (ICALBLK f0817003)	ICALBLK Abund	Abund	%Drift
Lithium	549412	504830	-8.11
Scandium	505889	457272	-9.61
Germanium	108050	101114	-6.42
Indium	668072	619429	-7.28
Bismuth	448984	403607	-10.11

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56230032071 File : f0817071 Time : 09-JUN-2006 00:24
Cal : 56230032001 Caldate: 08-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	4.316	0.5000	2.123	ug/L	ib ***
Antimony	[0.09771]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	[0.07945]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.04085]	0.2500	0.009674	ug/L	!ib
Cadmium	[0.07513]	0.2500	0.04566	ug/L	!ib
Calcium	[32.28]	50.00	7.739	ug/L	!ib
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.06391]	0.2500	0.008548	ug/L	!ib
Copper	[0.1145]	0.5000	0.04426	ug/L	!ib
Iron	[12.05]	50.00	6.980	ug/L	!ib
Lead	[0.05994]	0.2500	0.005283	ug/L	!ib
Magnesium	[25.05]	50.00	3.054	ug/L	!ib
Manganese	[0.2288]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.06368]	0.2500	0.03982	ug/L	!ib
Potassium	[18.57]	50.00	6.379	ug/L	!ib
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.05025]	0.2500	0.01266	ug/L	!ib
Sodium	88.59	50.00	9.919	ug/L	ib ***
Thallium	[0.1264]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0817003)	ICALBLK Abund	Abund	%Drift
Lithium	549412	609286	10.90
Scandium	505889	467744	-7.54
Germanium	108050	113214	4.78
Indium	668072	622237	-6.86
Bismuth	448984	405978	-9.58

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56230032080 File : f0817080 Time : 09-JUN-2006 01:15
Cal : 56230032001 Caldate: 08-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	15.22	0.5000	2.123	ug/L	ib ***
Antimony	[0.03790]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1796]	0.5000	0.09029	ug/L	!ib
Barium	[0.03726]	0.2500	0.02391	ug/L	!ib
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	[0.05997]	0.2500	0.04566	ug/L	!ib
Calcium	[47.10]	50.00	7.739	ug/L	!ib
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.04827]	0.2500	0.008548	ug/L	!ib
Copper	[0.05202]	0.5000	0.04426	ug/L	!ib
Iron	[34.39]	50.00	6.980	ug/L	!ib
Lead	[0.03475]	0.2500	0.005283	ug/L	!ib
Magnesium	[29.23]	50.00	3.054	ug/L	!ib
Manganese	[0.1703]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.07285]	0.2500	0.03982	ug/L	!ib
Potassium	[18.50]	50.00	6.379	ug/L	!ib
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.02295]	0.2500	0.01266	ug/L	!ib
Sodium	80.12	50.00	9.919	ug/L	ib ***
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	[0.09943]	0.5000	0.09577	ug/L	!ib

ISTD (ICALBLK f0817003)	ICALBLK Abund	Abund	%Drift
Lithium	549412	526450	-4.18
Scandium	505889	438144	-13.39
Germanium	108050	105117	-2.71
Indium	668072	594306	-11.04
Bismuth	448984	383590	-14.56

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56230032096 File : f0817096 Time : 09-JUN-2006 02:44
Cal : 56230032001 Caldate: 08-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	[0.09138]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.2131]	0.5000	0.09029	ug/L	!ib
Barium	[0.04504]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.04089]	0.2500	0.009674	ug/L	!ib
Cadmium	[0.1328]	0.2500	0.04566	ug/L	!ib
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.05541]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.05227]	0.2500	0.005283	ug/L	!ib
Magnesium	[6.989]	50.00	3.054	ug/L	!ib
Manganese	[0.1267]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.08498]	0.2500	0.03982	ug/L	!ib
Potassium	[7.456]	50.00	6.379	ug/L	!ib
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.05610]	0.2500	0.01266	ug/L	!ib
Sodium	[15.53]	50.00	9.919	ug/L	!ib
Thallium	[0.1115]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	[0.2139]	0.5000	0.09577	ug/L	!ib

ISTD (ICALBLK f0817003)	ICALBLK Abund	Abund	%Drift
Lithium	549412	510437	-7.09
Scandium	505889	420270	-16.92
Germanium	108050	99056	-8.32
Indium	668072	563911	-15.59
Bismuth	448984	360082	-19.80

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56230032111 File : f0817111 Time : 09-JUN-2006 04:08
Cal : 56230032001 Caldate: 08-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	[0.09823]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.2789]	0.5000	0.09029	ug/L	!ib
Barium	[0.07832]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.02860]	0.2500	0.009674	ug/L	!ib
Cadmium	[0.07506]	0.2500	0.04566	ug/L	!ib
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.04963]	0.2500	0.008548	ug/L	!ib
Copper	[0.05002]	0.5000	0.04426	ug/L	!ib
Iron	ND	50.00	6.980	ug/L	
Lead	[0.04986]	0.2500	0.005283	ug/L	!ib
Magnesium	[11.86]	50.00	3.054	ug/L	!ib
Manganese	0.4115	0.2500	0.01838	ug/L	ib ***
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.08142]	0.2500	0.03982	ug/L	!ib
Potassium	[11.47]	50.00	6.379	ug/L	!ib
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.04405]	0.2500	0.01266	ug/L	!ib
Sodium	[43.58]	50.00	9.919	ug/L	!ib
Thallium	ND	0.5000	0.02100	ug/L	
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0817003)	ICALBLK Abund	Abund	%Drift
Lithium	549412	497217	-9.50
Scandium	505889	388320	-23.24
Germanium	108050	95396	-11.71
Indium	668072	526536	-21.19
Bismuth	448984	341274	-23.99

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56230032118 File : f0817118 Time : 09-JUN-2006 04:47
Cal : 56230032001 Caldate: 08-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	[0.09760]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1301]	0.5000	0.09029	ug/L	!ib
Barium	[0.07725]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.07100]	0.2500	0.009674	ug/L	!ib
Cadmium	[0.09511]	0.2500	0.04566	ug/L	!ib
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.05536]	0.2500	0.008548	ug/L	!ib
Copper	[0.05611]	0.5000	0.04426	ug/L	!ib
Iron	ND	50.00	6.980	ug/L	
Lead	[0.06788]	0.2500	0.005283	ug/L	!ib
Magnesium	[15.52]	50.00	3.054	ug/L	!ib
Manganese	0.3075	0.2500	0.01838	ug/L	ib ***
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.08766]	0.2500	0.03982	ug/L	!ib
Potassium	[12.10]	50.00	6.379	ug/L	!ib
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.05959]	0.2500	0.01266	ug/L	!ib
Sodium	[27.44]	50.00	9.919	ug/L	!ib
Thallium	[0.03043]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	[0.1797]	0.5000	0.09577	ug/L	!ib

ISTD (ICALBLK f0817003)	ICALBLK Abund	Abund	%Drift
Lithium	549412	491292	-10.58
Scandium	505889	392292	-22.45
Germanium	108050	96808	-10.40
Indium	668072	530694	-20.56
Bismuth	448984	339311	-24.43

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56230032014 File : f0817014 Time : 08-JUN-2006 19:04
Cal : 56230032001 Caldate: 08-JUN-2006
Standards: S3612, S3310

Analyte	Quant	RL	Units	Flags
Antimony	2.240	0.2500	ug/L	
Arsenic	1.096	0.5000	ug/L	
Barium	0.9822	0.2500	ug/L	
Beryllium	[0.01639]	0.2500	ug/L	
Cadmium	[0.2046]	0.2500	ug/L	
Chromium	1.292	0.5000	ug/L	
Cobalt	2.681	0.2500	ug/L	
Copper	2.020	0.5000	ug/L	
Lead	1.246	0.2500	ug/L	
Manganese	0.9937	0.2500	ug/L	
Nickel	1.744	0.2500	ug/L	
Selenium	[0.3838]	0.5000	ug/L	
Silver	[0.1591]	0.2500	ug/L	
Thallium	[0.2773]	0.5000	ug/L	
Vanadium	[0.1332]	0.5000	ug/L	
Zinc	3.745	0.5000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	90390	ug/L	90
Calcium	300000	296400	ug/L	99
Iron	250000	237400	ug/L	95
Magnesium	100000	93880	ug/L	94
Molybdenum	2000	2021	ug/L	101
Potassium	100000	95830	ug/L	96
Sodium	250000	228900	ug/L	92

ISTD (ICALBLK f0817003)	ICALBLK Abund	Abund	%Drift
Lithium	549412	474654	-13.61
Scandium	505889	441504	-12.73
Germanium	108050	100180	-7.28
Indium	668072	550090	-17.66
Bismuth	448984	363447	-19.05

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56230032015 File : f0817015 Time : 08-JUN-2006 19:11
Cal : 56230032001 Caldate: 08-JUN-2006
Standards: S3620, S3310

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	85140	ug/L	-15		
Arsenic	100.0	110.5	ug/L	11	20	
Cadmium	100.0	102.8	ug/L	3	20	
Calcium	300000	294900	ug/L	-2		
Chromium	200.0	221.7	ug/L	11	20	
Cobalt	200.0	218.9	ug/L	9	20	
Copper	200.0	201.2	ug/L	1	20	
Iron	250000	238500	ug/L	-5		
Magnesium	100000	88160	ug/L	-12		
Manganese	200.0	218.7	ug/L	9	20	
Molybdenum	2000	2036	ug/L	2		
Nickel	200.0	204.3	ug/L	2	20	
Potassium	100000	93690	ug/L	-6		
Selenium	100.0	99.70	ug/L	0	20	
Silver	50.00	52.26	ug/L	5	20	
Sodium	250000	218000	ug/L	-13		
Vanadium	200.0	230.0	ug/L	15	20	
Zinc	100.0	112.1	ug/L	12	20	

ISTD (ICALBLK f0817003)	ICALBLK Abund	Abund	%Drift
Scandium	505889	427144	-15.57
Germanium	108050	95217	-11.88

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56230032048 File : f0817048 Time : 08-JUN-2006 22:16
Cal : 56230032001 Caldate: 08-JUN-2006
Standards: S3602, S3310

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100.0	88760	ug/L	88760
Antimony	100.0	2.269	ug/L	2
Arsenic	100.0	1.275	ug/L	1
Barium	100.0	0.8756	ug/L	1
Beryllium	100.0	0.006890	ug/L	0
Cadmium	100.0	0.09287	ug/L	0
Calcium	10000	296800	ug/L	2968
Chromium	100.0	1.314	ug/L	1
Cobalt	100.0	2.617	ug/L	3
Copper	100.0	2.024	ug/L	2
Iron	10000	238900	ug/L	2389
Lead	100.0	1.242	ug/L	1
Magnesium	10000	91750	ug/L	918
Manganese	100.0	1.084	ug/L	1
Molybdenum	100.0	2031	ug/L	2031
Nickel	100.0	1.680	ug/L	2
Potassium	10000	95740	ug/L	957
Selenium	100.0	0.4987	ug/L	0
Silver	100.0	0.1526	ug/L	0
Sodium	10000	223900	ug/L	2239
Thallium	50.00	0	ug/L	0
Vanadium	100.0	0.06117	ug/L	0
Zinc	100.0	3.881	ug/L	4

ISTD (ICALBLK f0817003)	ICALBLK Abund	Abund	%Drift
Lithium	549412	440437	-19.83
Scandium	505889	422669	-16.45
Germanium	108050	94790	-12.27
Indium	668072	521452	-21.95
Bismuth	448984	337217	-24.89

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56230032049 File : f0817049 Time : 08-JUN-2006 22:21
Cal : 56230032001 Caldate: 08-JUN-2006
Standards: S3620, S3310

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	86560	ug/L	-13		
Arsenic	100.0	111.7	ug/L	12	20	
Cadmium	100.0	104.3	ug/L	4	20	
Calcium	300000	294300	ug/L	-2		
Chromium	200.0	222.5	ug/L	11	20	
Cobalt	200.0	220.1	ug/L	10	20	
Copper	200.0	202.7	ug/L	1	20	
Iron	250000	239300	ug/L	-4		
Magnesium	100000	88960	ug/L	-11		
Manganese	200.0	220.7	ug/L	10	20	
Molybdenum	2000	2044	ug/L	2		
Nickel	200.0	205.2	ug/L	3	20	
Potassium	100000	92830	ug/L	-7		
Selenium	100.0	100.5	ug/L	1	20	
Silver	50.00	52.38	ug/L	5	20	
Sodium	250000	216800	ug/L	-13		
Vanadium	200.0	231.0	ug/L	16	20	
Zinc	100.0	112.5	ug/L	13	20	

ISTD (ICALBLK f0817003)	ICALBLK Abund	Abund	%Drift
Scandium	505889	407106	-19.53
Germanium	108050	90759	-16.00

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56230032073 File : f0817073 Time : 09-JUN-2006 00:36
Cal : 56230032001 Caldate: 08-JUN-2006
Standards: S3602, S3310

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100.0	104900	ug/L	104900
Antimony	100.0	2.229	ug/L	2
Arsenic	100.0	1.151	ug/L	1
Barium	100.0	0.9658	ug/L	1
Beryllium	100.0	0.03078	ug/L	0
Cadmium	100.0	0.1670	ug/L	0
Calcium	10000	291000	ug/L	2910
Chromium	100.0	1.209	ug/L	1
Cobalt	100.0	2.577	ug/L	3
Copper	100.0	2.268	ug/L	2
Iron	10000	224800	ug/L	2248
Lead	100.0	1.204	ug/L	1
Magnesium	10000	108400	ug/L	1084
Manganese	100.0	1.053	ug/L	1
Molybdenum	100.0	1893	ug/L	1893
Nickel	100.0	1.760	ug/L	2
Potassium	10000	96310	ug/L	963
Selenium	100.0	0.5030	ug/L	1
Silver	100.0	0.1557	ug/L	0
Sodium	10000	260300	ug/L	2603
Thallium	50.00	0.09917	ug/L	0
Vanadium	100.0	0.08910	ug/L	0
Zinc	100.0	3.642	ug/L	4

ISTD (ICALBLK f0817003)	ICALBLK Abund	Abund	%Drift
Lithium	549412	458051	-16.63
Scandium	505889	409164	-19.12
Germanium	108050	98586	-8.76
Indium	668072	507400	-24.05
Bismuth	448984	328798	-26.77

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56230032074 File : f0817074 Time : 09-JUN-2006 00:41
Cal : 56230032001 Caldate: 08-JUN-2006
Standards: S3620, S3310

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	102500	ug/L	3		
Arsenic	100.0	109.9	ug/L	10	20	
Cadmium	100.0	95.09	ug/L	-5	20	
Calcium	300000	288600	ug/L	-4		
Chromium	200.0	205.5	ug/L	3	20	
Cobalt	200.0	209.5	ug/L	5	20	
Copper	200.0	198.9	ug/L	-1	20	
Iron	250000	224600	ug/L	-10		
Magnesium	100000	106300	ug/L	6		
Manganese	200.0	203.7	ug/L	2	20	
Molybdenum	2000	1881	ug/L	-6		
Nickel	200.0	198.0	ug/L	-1	20	
Potassium	100000	94920	ug/L	-5		
Selenium	100.0	97.16	ug/L	-3	20	
Silver	50.00	47.75	ug/L	-5	20	
Sodium	250000	254700	ug/L	2		
Vanadium	200.0	210.9	ug/L	5	20	
Zinc	100.0	110.1	ug/L	10	20	

ISTD (ICALBLK f0817003)	ICALBLK Abund	Abund	%Drift
Scandium	505889	402151	-20.51
Germanium	108050	96710	-10.49

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56230032120 File : f0817120 Time : 09-JUN-2006 04:58
Cal : 56230032001 Caldate: 08-JUN-2006
Standards: S3612, S3310

Analyte	Quant	RL	Units	Flags
Antimony	2.200	0.2500	ug/L	
Arsenic	0.7399	0.5000	ug/L	
Barium	0.9196	0.2500	ug/L	
Beryllium	[0]	0.2500	ug/L	
Cadmium	[0.08061]	0.2500	ug/L	
Chromium	1.129	0.5000	ug/L	
Cobalt	2.487	0.2500	ug/L	
Copper	1.978	0.5000	ug/L	
Lead	1.165	0.2500	ug/L	
Manganese	1.047	0.2500	ug/L	
Nickel	1.650	0.2500	ug/L	
Selenium	[0.1736]	0.5000	ug/L	
Silver	[0.1350]	0.2500	ug/L	
Thallium	[0]	0.5000	ug/L	
Vanadium	[0.04229]	0.5000	ug/L	
Zinc	3.543	0.5000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	100500	ug/L	101
Calcium	300000	292000	ug/L	97
Iron	250000	224900	ug/L	90
Magnesium	100000	103700	ug/L	104
Molybdenum	2000	1871	ug/L	94
Potassium	100000	94810	ug/L	95
Sodium	250000	249600	ug/L	100

ISTD (ICALBLK f0817003)	ICALBLK Abund	Abund	%Drift
Lithium	549412	387567	-29.46
Scandium	505889	339522	-32.89
Germanium	108050	82949	-23.23
Indium	668072	438128	-34.42
Bismuth	448984	282200	-37.15

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56230032121 File : f0817121 Time : 09-JUN-2006 05:04
Cal : 56230032001 Caldate: 08-JUN-2006
Standards: S3620, S3310

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	97080	ug/L	-3		
Arsenic	100.0	107.1	ug/L	7	20	
Cadmium	100.0	97.77	ug/L	-2	20	
Calcium	300000	290600	ug/L	-3		
Chromium	200.0	208.3	ug/L	4	20	
Cobalt	200.0	210.1	ug/L	5	20	
Copper	200.0	196.9	ug/L	-2	20	
Iron	250000	228400	ug/L	-9		
Magnesium	100000	100600	ug/L	1		
Manganese	200.0	207.5	ug/L	4	20	
Molybdenum	2000	1907	ug/L	-5		
Nickel	200.0	195.1	ug/L	-2	20	
Potassium	100000	93160	ug/L	-7		
Selenium	100.0	93.90	ug/L	-6	20	
Silver	50.00	48.57	ug/L	-3	20	
Sodium	250000	240500	ug/L	-4		
Vanadium	200.0	216.4	ug/L	8	20	
Zinc	100.0	109.0	ug/L	9	20	

ISTD (ICALBLK f0817003)	ICALBLK Abund	Abund	%Drift
Scandium	505889	331657	-34.44
Germanium	108050	79648	-26.29

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56230032 Instrument: MET05 Agilent ICP-MS Begun: 08-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	f0817001	TUN				08-JUN-2006 17:52	1.0	1.0				1	
002	f0817002	X	RINSE			08-JUN-2006 17:58	1.0					2	
003	f0817003	ICALBLK	STD-BLK			08-JUN-2006 18:03	1.0	1.0				2	
004	f0817004	ICAL	CS1			08-JUN-2006 18:09	1.0	1.0				3	
005	f0817005	ICAL	CS2			08-JUN-2006 18:14	1.0	1.0				4	
006	f0817006	ICAL	CS3			08-JUN-2006 18:20	1.0	1.0				5	
007	f0817007	ICAL	CS4			08-JUN-2006 18:26	1.0	1.0				6	
008	f0817008	ICAL	CS5			08-JUN-2006 18:31	1.0	1.0				7	
009	f0817009	ICAL	CS6			08-JUN-2006 18:37	1.0	1.0				8	
010	f0817010	ICV				08-JUN-2006 18:42	1.0	1.0			1	9	
011	f0817011	X	RINSE			08-JUN-2006 18:48	1.0					2	
012	f0817012	X				08-JUN-2006 18:53	1.0	1.0	1		1	2	
013	f0817013	ICB				08-JUN-2006 18:59	1.0	1.0			1	2	
014	f0817014	ICSA				08-JUN-2006 19:04	1.0	1.0			1	10 2	7:CA=296400
015	f0817015	ICSAB				08-JUN-2006 19:11	1.0	1.0			1	11 2	13:CA=294900
016	f0817016	X	RINSE			08-JUN-2006 19:16	1.0					2	
017	f0817017	X	RINSE			08-JUN-2006 19:22	1.0					2	
018	f0817018	BLANK	QC342878	114148	Filtra	08-JUN-2006 19:28	1.0	1.0	1		1	2	
019	f0817019	BS	QC342879	114148	Filtra	08-JUN-2006 19:33	1.0	1.0	1		1	2	
020	f0817020	BSD	QC342880	114148	Filtra	08-JUN-2006 19:39	1.0	1.0	1		1	2	
021	f0817021	X	RINSE			08-JUN-2006 19:44	1.0					2	
022	f0817022	MSS	187086-001	114148	Filtra	08-JUN-2006 19:50	1.0	1.0	3		1	2	2:NA=24050.0
023	f0817023	MS	QC342881	114148	Filtra	08-JUN-2006 19:56	1.0	1.0	1		1	2	3:NA=33570.0
024	f0817024	MSD	QC342882	114148	Filtra	08-JUN-2006 20:01	1.0	1.0	1		1	2	3:NA=33250.0
025	f0817025	X	RINSE			08-JUN-2006 20:07	1.0					2	
026	f0817026	SAMPLE	187086-002	114148	Filtra	08-JUN-2006 20:12	1.0	1.0			1	2	1:NA=23660.0
027	f0817027	SAMPLE	187086-003	114148	Filtra	08-JUN-2006 20:18	1.0	1.0			1	2	1:CA=29020.0
028	f0817028	X	RINSE			08-JUN-2006 20:24	1.0					2	
029	f0817029	CCV				08-JUN-2006 20:29	1.0	1.0	1		1	12	
030	f0817030	X	RINSE			08-JUN-2006 20:35	1.0					2	

Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3621 13=S3602 14=S3085
Flags used: spk=5% spike rule

Analyst: K Carlyn Date: 6/8/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56230032 Instrument: MET05 Agilent ICP-MS Begun: 08-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
031	f0817031	CCB				08-JUN-2006 20:40	1.0	1.0	1		1	2	
032	f0817032	X				08-JUN-2006 20:46	1.0	1.0	1		1	2	
033	f0817033	SAMPLE	187086-004	114148	Filtra	08-JUN-2006 20:52	1.0	1.0			1	2	
034	f0817034	SAMPLE	187086-005	114148	Filtra	08-JUN-2006 20:57	1.0	1.0			1	2	1:NA=45690.0
035	f0817035	SAMPLE	187086-006	114148	Filtra	08-JUN-2006 21:03	1.0	1.0	1		1	2	1:NA=36030.0
036	f0817036	SAMPLE	187086-007	114148	Filtra	08-JUN-2006 21:09	1.0	1.0			1	2	1:NA=26690.0
037	f0817037	SAMPLE	187086-008	114148	Filtra	08-JUN-2006 21:14	1.0	1.0			1	2	1:NA=21040.0
038	f0817038	SAMPLE	187086-009	114148	Filtra	08-JUN-2006 21:20	1.0	1.0			1	2	1:NA=34780.0
039	f0817039	SAMPLE	187109-001	114148	Filtra	08-JUN-2006 21:26	1.0	1.0			1	2	1:NA=208200
040	f0817040	SAMPLE	187109-002	114148	Filtra	08-JUN-2006 21:31	1.0	1.0			1	2	1:NA=32730.0
041	f0817041	SAMPLE	187109-003	114148	Filtra	08-JUN-2006 21:37	1.0	1.0			1	2	2:NA=28280.0
042	f0817042	SAMPLE	187109-004	114148	Filtra	08-JUN-2006 21:42	1.0	1.0			1	2	3:NA=48630.0
043	f0817043	X	RINSE			08-JUN-2006 21:48	1.0					2	
044	f0817044	CCV				08-JUN-2006 21:54	1.0	1.0	1		1	12	
045	f0817045	X	RINSE			08-JUN-2006 21:59	1.0					2	
046	f0817046	CCB				08-JUN-2006 22:05	1.0	1.0	1		1	2	
047	f0817047	X				08-JUN-2006 22:10	1.0	1.0	1		1	2	
048	f0817048	ICSA				08-JUN-2006 22:16	1.0	1.0			1	13 2	7:CA=296800
049	f0817049	ICSAB				08-JUN-2006 22:21	1.0	1.0			1	11 2	13:CA=294300
050	f0817050	X	RINSE			08-JUN-2006 22:27	1.0					2	
051	f0817051	X	RINSE			08-JUN-2006 22:33	1.0					2	
052	f0817052	CCV				08-JUN-2006 22:38	1.0	1.0	1		1	12	
053	f0817053	X	RINSE			08-JUN-2006 22:44	1.0					2	
054	f0817054	CCB				08-JUN-2006 22:49	1.0	1.0	1		1	2	
055	f0817055	X				08-JUN-2006 22:55	1.0	1.0	1		1	2	
056	f0817056	BLANK	QC342681	114103	Water	08-JUN-2006 23:01	1.0	1.0	2		1	2	
057	f0817057	BS	QC342682	114103	Water	08-JUN-2006 23:06	1.0	1.0	3		1	2	
058	f0817058	BSD	QC342683	114103	Water	08-JUN-2006 23:12	1.0	1.0	3		1	2	
059	f0817059	X	RINSE			08-JUN-2006 23:17	1.0					2	
060	f0817060	MSS	187019-001	114103	Water	08-JUN-2006 23:23	1.0	1.0	5		1	2	5:NA=380400

Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3621 13=S3602 14=S3085
Flags used: spk=5% spike rule

Analyst: KCarlyn Date: 6/8/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56230032 Instrument: MET05 Agilent ICP-MS Begun: 08-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used		>LR
061	f0817061	SER	QC342686	114103	Water	08-JUN-2006 23:29	5.0	1.0		1	1	2		5:NA=80900.0
062	f0817062	MS	QC342684	114103	Water	08-JUN-2006 23:34	1.0	1.0			1	2		5:NA=398000
063	f0817063	MSD	QC342685	114103	Water	08-JUN-2006 23:40	1.0	1.0			1	2		5:NA=369600
064	f0817064	PDS	QC342687	114103	Water	08-JUN-2006 23:45	1.0	1.0			1	14		5:NA=383400
065	f0817065	X	RINSE			08-JUN-2006 23:51	1.0					2		
066	f0817066	SAMPLE	187019-002	114103	Water	08-JUN-2006 23:56	1.0	1.0	1		1	2		5:NA=388900
067	f0817067	SAMPLE	187019-003	114103	Water	09-JUN-2006 00:02	1.0	1.0	1		1	2		4:NA=392400
068	f0817068	X	RINSE			09-JUN-2006 00:07	1.0					2		
069	f0817069	CCV				09-JUN-2006 00:13	1.0	1.0	3		1	12		
070	f0817070	X	RINSE			09-JUN-2006 00:19	1.0					2		
071	f0817071	CCB				09-JUN-2006 00:24	1.0	1.0	2		1	2		
072	f0817072	X				09-JUN-2006 00:30	1.0	1.0	2		1	2		
073	f0817073	ICSA				09-JUN-2006 00:36	1.0	1.0			1	13 2		7:CA=291000
074	f0817074	ICSAB				09-JUN-2006 00:41	1.0	1.0			1	11 2		11:CA=288600
075	f0817075	X	RINSE			09-JUN-2006 00:46	1.0					2		
076	f0817076	X	RINSE			09-JUN-2006 00:52	1.0					2		
077	f0817077	CCV				09-JUN-2006 00:58	1.0	1.0	4		1	12		
078	f0817078	X	RINSE			09-JUN-2006 01:04	1.0					2		
079	f0817079	X				09-JUN-2006 01:09	1.0	1.0	3		1	2		
080	f0817080	CCB				09-JUN-2006 01:15	1.0	1.0	2		1	2		
081	f0817081	BLANK	QC342496	114057	Filtra	09-JUN-2006 01:20	1.0	1.0	3		1	2		
082	f0817082	BS	QC342497	114057	Filtra	09-JUN-2006 01:26	1.0	1.0	4		1	2		
083	f0817083	BSD	QC342498	114057	Filtra	09-JUN-2006 01:32	1.0	1.0	4	3	1	2	spk	
084	f0817084	X	RINSE			09-JUN-2006 01:37	1.0					2		
085	f0817085	MSS	187065-001	114057	Filtra	09-JUN-2006 01:43	1.0	1.0	5		1	2	spk	3:NA=214800
086	f0817086	SER	QC342501	114057	Filtra	09-JUN-2006 01:48	5.0	1.0		2	1	2		1:NA=43880.0
087	f0817087	MS	QC342499	114057	Filtra	09-JUN-2006 01:54	1.0	1.0	2		1	2		5:NA=226000
088	f0817088	MSD	QC342500	114057	Filtra	09-JUN-2006 01:59	1.0	1.0	2		1	2		5:NA=233900
089	f0817089	PDS	QC342502	114057	Filtra	09-JUN-2006 02:05	1.0	1.0	2		1	14		5:NA=219800
090	f0817090	X	RINSE			09-JUN-2006 02:10	1.0					2		

Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3621 13=S3602 14=S3085
Flags used: spk=5% spike rule

Analyst: K Carlyn Date: 6/8/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56230032 Instrument: MET05 Agilent ICP-MS Begun: 08-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used		>LR
091	f0817091	SAMPLE	187065-002	114057	Filtra	09-JUN-2006 02:16	1.0	1.0	6		1	2	spk	4:NA=68030.0
092	f0817092	SAMPLE	187065-003	114057	Filtra	09-JUN-2006 02:22	1.0	1.0	7		1	2	spk	6:NA=141300
093	f0817093	X	RINSE			09-JUN-2006 02:27	1.0					2		
094	f0817094	CCV				09-JUN-2006 02:33	1.0	1.0	2		1	12		
095	f0817095	X	RINSE			09-JUN-2006 02:38	1.0					2		
096	f0817096	CCB				09-JUN-2006 02:44	1.0	1.0			1	2		
097	f0817097	X				09-JUN-2006 02:50	1.0	1.0			1	2		
098	f0817098	SAMPLE	187065-004	114057	Filtra	09-JUN-2006 02:55	1.0	1.0	5		1	2	spk	3:NA=221900
099	f0817099	SAMPLE	187065-005	114057	Filtra	09-JUN-2006 03:01	1.0	1.0	5		1	2	spk	3:NA=186300
100	f0817100	SAMPLE	187065-006	114057	Filtra	09-JUN-2006 03:06	1.0	1.0	5		1	2	spk	3:NA=69040.0
101	f0817101	SAMPLE	187065-007	114057	Filtra	09-JUN-2006 03:12	1.0	1.0	5		1	2	spk	3:MG=87910.0
102	f0817102	SAMPLE	187065-009	114057	Filtra	09-JUN-2006 03:17	1.0	1.0	4		1	2	spk	2:NA=306200
103	f0817103	SAMPLE	187065-011	114057	Filtra	09-JUN-2006 03:23	1.0	1.0	4		1	2	spk	2:NA=314400
104	f0817104	SAMPLE	187065-012	114057	Filtra	09-JUN-2006 03:29	1.0	1.0	8		1	2	spk	6:NA=474100
105	f0817105	SAMPLE	187065-013	114057	Filtra	09-JUN-2006 03:34	1.0	1.0	8		1	2	spk	6:NA=489000
106	f0817106	SAMPLE	187065-014	114057	Filtra	09-JUN-2006 03:40	1.0	1.0	6		1	2	spk	4:NA=95570.0
107	f0817107	SAMPLE	187065-015	114057	Filtra	09-JUN-2006 03:45	1.0	1.0	6		1	2	spk	5:NA=97750.0
108	f0817108	X	RINSE			09-JUN-2006 03:51	1.0					2		
109	f0817109	CCV				09-JUN-2006 03:56	1.0	1.0	5		1	12		
110	f0817110	X	RINSE			09-JUN-2006 04:02	1.0					2		
111	f0817111	CCB				09-JUN-2006 04:08	1.0	1.0	1		1	2		
112	f0817112	X				09-JUN-2006 04:13	1.0	1.0	1		1	2		
113	f0817113	SAMPLE	187065-016	114057	Filtra	09-JUN-2006 04:19	1.0	1.0	7		1	2	spk	4:MG=103600
114	f0817114	SAMPLE	187065-017	114057	Filtra	09-JUN-2006 04:24	1.0	1.0	7		1	2	spk	4:MG=100100
115	f0817115	X	RINSE			09-JUN-2006 04:30	1.0					2		
116	f0817116	CCV				09-JUN-2006 04:36	1.0	1.0	7		1	12		
117	f0817117	X	RINSE			09-JUN-2006 04:41	1.0					2		
118	f0817118	CCB				09-JUN-2006 04:47	1.0	1.0	1		1	2		
119	f0817119	X				09-JUN-2006 04:52	1.0	1.0			1	2		
120	f0817120	ICSA				09-JUN-2006 04:58	1.0	1.0			1	10 2		7:CA=292000

Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3621 13=S3602 14=S3085
Flags used: spk=5% spike rule

Analyst: [signature] Date: 6/8/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56230032 Instrument: MET05 Agilent ICP-MS Begun: 08-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
121	f0817121	ICSAB				09-JUN-2006 05:04	1.0	1.0	1	11 2	11:CA=290600

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Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3621 13=S3602 14=S3085
Flags used: spk=5% spike rule

Analyst: K Carlyn Date: 6/8/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56231280001
Units : ug/L

Date : 09-JUN-2006 14:52
X Axis : R

Reviewer: ---

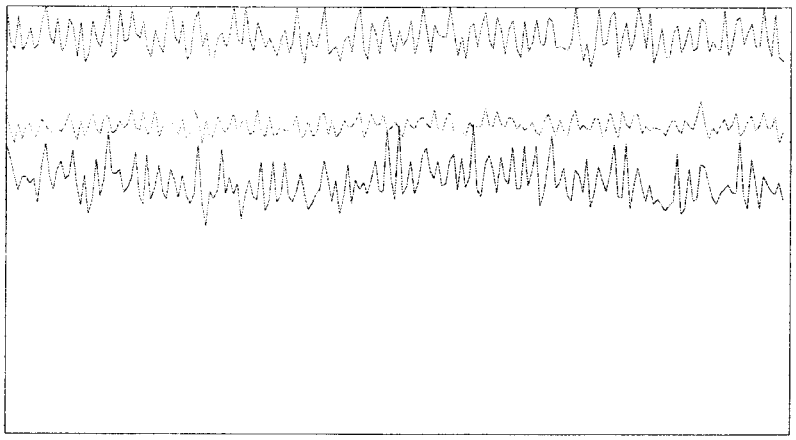
Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	f0914004	56231280004	CS1	09-JUN-2006 14:58	S3608
L2	f0914005	56231280005	CS2	09-JUN-2006 15:03	S3609
L3	f0914006	56231280006	CS3	09-JUN-2006 15:09	S3610
L4	f0914007	56231280007	CS4	09-JUN-2006 15:15	S3611
L5	f0914008	56231280008	CS5	09-JUN-2006 15:20	S3605
L6	f0914009	56231280009	CS6	09-JUN-2006 15:26	S3606

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		6.0142	3.1525	0.6209	0.4044	0.4068	BLNK	-10.820	2.62333		2.1198	0.998	0.995	
Antimony	0.2496	0.2427	0.2270	0.2193	0.2203	0.2220	BLNK	-0.0295	4.51247		0.2301	1.000	0.995	
Arsenic		0.5007	0.4516	0.3952	0.3849	0.3839	BLNK	-0.0843	2.60486		0.4233	1.000	0.995	
Barium	0.1386	0.1336	0.1125	0.1013	0.1004	0.1010	BLNK	-0.1351	9.92457		0.1146	1.000	0.995	
Beryllium	0.1458	0.1258	0.1206	0.1223	0.1202	0.1207	BLNK	-0.0278	8.29479		0.1259	1.000	0.995	
Cadmium	0.8589	0.6686	0.5330	0.5045	0.4682	0.4565	BLNK	-0.1762	2.18157		0.5816	1.000	0.995	
Calcium		0.0308	0.0285	0.0161	0.0159	0.0159	BLNK	-49.216	63.1908		0.0214	1.000	0.995	
Chromium		5.6983	3.9839	2.3963	2.2717	2.2640	BLNK	-0.7070	0.44327		3.3229	1.000	0.995	357
Cobalt	3.2668	3.0828	2.9083	2.6901	2.6822	2.6810	BLNK	-0.0300	0.37302		2.8852	1.000	0.995	
Copper		1.2661	0.9085	0.7095	0.6774	0.6733	BLNK	-0.2946	1.48585		0.8470	1.000	0.995	
Iron		0.1176	0.0895	0.0659	0.0677	0.0666	BLNK	-34.925	15.0018		0.0815	1.000	0.995	
Lead	1.0149	0.9503	0.8656	0.8249	0.8334	0.8568	BLNK	-0.0447	1.17396		0.8910	1.000	0.995	
Magnesium		0.0553	0.0509	0.0465	0.0467	0.0467	BLNK	-5.9362	21.4188		0.0492	1.000	0.995	
Manganese	5.1808	4.1275	3.6991	3.1817	3.1290	3.2530	BLNK	-0.1105	0.30999		3.7618	1.000	0.995	
Molybdenum		1.0317	0.8910	0.7853	0.7812	0.7707	BLNK	-0.1167	1.29494		0.8520	1.000	0.995	
Nickel	1.3456	0.9293	0.7905	0.6156	0.5836	0.5850	BLNK	-0.2286	1.71240		0.8083	1.000	0.995	
Potassium		1.4147	0.9540	0.5358	0.4707	0.4728	BLNK	-94.260	2.12862		0.7696	1.000	0.995	
Selenium		0.0803	0.0457	0.0344	0.0317	0.0307	BLNK	-0.6228	32.4826		0.0446	1.000	0.995	
Silver	2.5170	2.4080	2.1951	2.1556	2.1043	2.0242	BLNK	-0.0265	0.49017		2.2340	1.000	0.995	
Sodium		2.0587	1.2973	0.5569	0.4712	0.4889	BLNK	-135.05	2.07700		0.9746	0.999	0.995	
Thallium		0.6908	0.6420	0.5760	0.6121	0.6613	BLNK	-0.0584	1.53600		0.6364	0.998	0.995	
Vanadium		3.6558	2.8856	2.5555	2.5860	2.7747	BLNK	-0.2356	0.36595		2.8915	0.999	0.995	
Zinc		2.4691	2.5566	0.4836	0.3831	0.3697	BLNK	-2.7938	2.73017		1.2524	1.000	0.995	

Instrument amount = a0 + response * a1 + response^2 * a2; BLNK=Y=aX+[blank]

Tune Report

Tune File : ATUNE.U



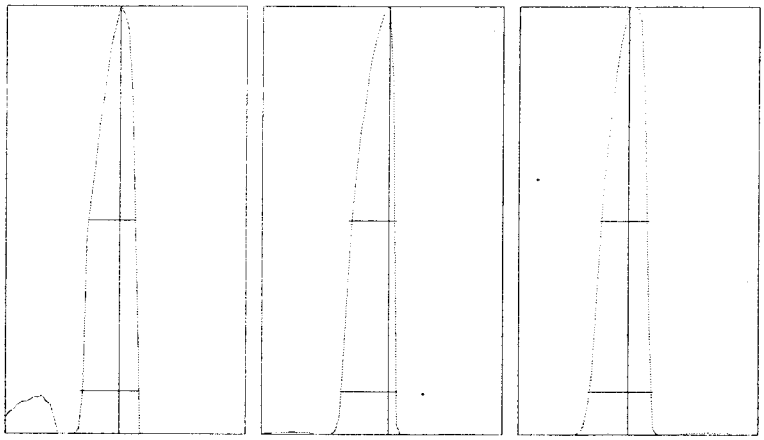
m/z:	7	89	205
Range:	20,000	20,000	20,000
Count:	10,996	17,506	14,166
Mean:	11814.0	18628.9	14437.6
RSD%:	7.84	4.27	2.76
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.35%
Doubly Charged:	70/140	0.78%

Background:

m/z:	7	89	205
Cps:	15.1	8.0	9.2



m/z:	7	89	205
Height:	12,261	19,265	14,476
Axis:	6.95	89.10	204.90
W-50%:	0.60	0.60	0.60
W-10%:	0.7500	0.700	0.800

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1300 W	Extract 1:	-150 V	AMU Gain:	129
RF Matching:	1.7 V	Extract 2:	-110 V	AMU Offset:	127
Smpl Depth:	8 mm	Einzel 1,3:	-160 V	Axis Gain:	0.9993
Torch-H:	0 mm	Einzel 2:	7 V	Axis Offset:	-0.08
Torch-V:	0.2 mm	Omega Bias:	-55 V	QP Bias:	1.6 V
Carrier Gas:	1.1 L/min	Omega (+):	5 V		
Makeup Gas:	0 L/min	Omega (-):	-5 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	9 V	Discriminator:	8.9 mV
PeriPump1:	0.1 rps	Plate Bias:	-5 V	Analog HV:	1840 V
PeriPump2:	--- rps			Pulse HV:	1500 V
S/C Temp:	2 degC				

Generated : Jun 09, 2006 11:54:13
Printed : Jun 09, 2006 11:54:19

P/A Factor Tuning Report

Acquired:Jun 9 2006 00:09 pm

Mass[amu]	Element	P/A Factor
6	Li	0.074719
9	Be	0.081774
23	Na	0.086613
25	Mg	0.090535
26	Mg	0.091244
27	Al	0.096179
39	K	0.095716
43	Ca	Sensitivity too low
44	Ca	Sensitivity too low
45	Sc	0.097182
51	V	0.100307
52	Cr	0.102241
53	Cr	Sensitivity too low
54	Fe	Sensitivity too low
55	Mn	0.104390
57	Fe	Sensitivity too low
59	Co	0.108385
60	Ni	Sensitivity too low
63	Cu	0.110696
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	0.111205
89	Y	0.108748
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.115401
111	Cd	Sensitivity too low
114	Cd	0.112716
115	In	0.115816
118	(In)	Sensitivity too low
121	Sb	Sensitivity too low
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.118104
166	Er	Sensitivity too low

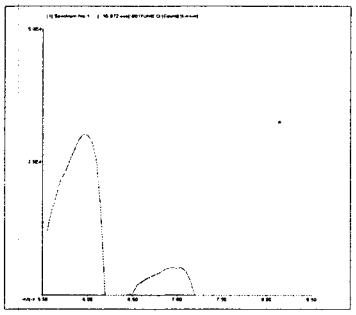
```
  205        Tl    0.124954
  206      (Pb)    0.119963
  207      (Pb)  Sensitivity too low
  208        Pb    0.123504
  209        Bi    0.123108

===Detector Parameters===
 Discriminator: 8.9 mV
     Analog HV: 1840 V
      Pulse HV: 1500 V
```

6020 QC Tune Report

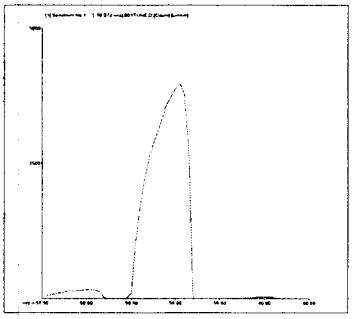
Data File: C:\ICPCHEM\1\DATA\06F0914a.B\001TUNE.D
Date Acquired: Jun 9 2006 02:40 pm
Acq. Method: TN6020.M
Operator:
Sample Name: tun,s3622
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

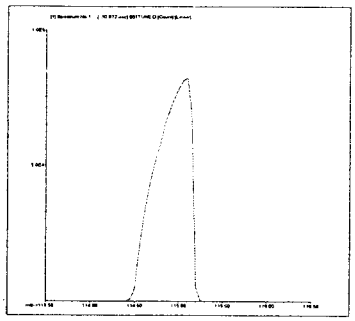
Element	Actual	Required	Flag
7 Li	1.88	5.00	
59 Co	1.64	5.00	
115 In	2.71	5.00	
205 Tl	1.49	5.00	



7 Li
Mass Calib.
Actual: 6.95
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



115 In

Mass Calib.

Actual: 115.10

Required: 114.90 - 115.10

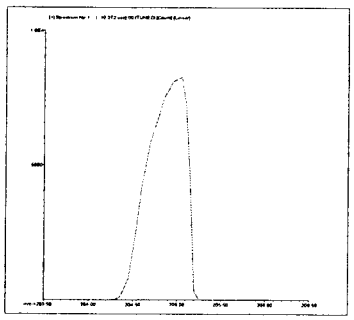
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



205 Tl

Mass Calib.

Actual: 205.05

Required: 204.90 - 205.10

Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06F0914a.B\003CAL
Date Acquired: Jun 9 2006 02:52 pm
Operator:
Sample Name: std-blk
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\602001
Last Cal Update: Jun 09 2006 01:14 pm
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	280047.81	P	9037.00	3.23
9	Be	18.89	P	8.39	44.41
23	Na	327585.50	P	6713.00	2.05
26	Mg	1395.56	P	69.47	4.98
27	Al	20770.00	P	435.40	2.10
39	K	223093.30	P	3611.00	1.62
44	Ca	3923.87	P	80.34	2.05
45	Sc	251916.70	P	4980.00	1.98
51	V	873.20	P	96.88	11.10
52	Cr	2163.33	P	92.91	4.29
55	Mn	483.33	P	44.85	9.28
57	Fe	3157.78	P	61.13	1.94
59	Co	108.89	P	32.03	29.42
60	Ni	181.11	P	28.35	15.65
65	Cu	268.88	P	20.37	7.58
66	Zn	1387.78	P	102.90	7.41
72	Ge	67818.00	P	214.60	0.32
75	As	43.78	P	71.02	162.22
82	Se	26.00	P	4.05	15.60
95	Mo	122.22	P	7.70	6.30
109	Ag	73.33	P	20.82	28.39
111	Cd	109.60	P	16.79	15.32
115	In	669674.81	P	11240.00	1.68
121	Sb	87.78	P	22.69	25.85
137	Ba	182.22	P	5.09	2.79
205	Tl	495.56	P	5.09	1.03
208	Pb	496.67	P	62.27	12.54
209	Bi	651814.38	P	1900.00	0.29

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0914a.B\004CALI.D\004CALI.D#
Date Acquired: Jun 9 2006 02:58 pm
Operator:
Sample Name: cs1,s3608
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 09 2006 02:54 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	282562.19	P	6907.00	2.44
9 Be	205.56	P	35.33	17.19
23 Na	376750.00	P	9446.00	2.51
26 Mg	7343.33	P	207.40	2.82
27 Al	12645.56	P	308.20	2.44
39 K	293417.81	P	4085.00	1.39
44 Ca	5422.00	P	137.80	2.54
45 Sc	251762.20	P	3158.00	1.25
51 V	1871.86	P	218.70	11.68
52 Cr	2986.67	P	210.70	7.05
55 Mn	1762.22	P	120.10	6.82
57 Fe	5433.33	P	257.60	4.74
59 Co	1111.11	P	56.01	5.04
60 Ni	457.78	P	31.51	6.88
65 Cu	607.75	P	52.10	8.57
66 Zn	1918.89	P	93.41	4.87
72 Ge	68037.33	P	743.00	1.09
75 As	196.29	P	11.53	5.87
82 Se	34.89	P	4.07	11.67
95 Mo	364.44	P	79.33	21.77
109 Ag	856.67	P	81.45	9.51
111 Cd	292.30	P	17.26	5.90
115 In	672458.63	P	7902.00	1.18
121 Sb	838.89	P	13.88	1.65
137 Ba	465.56	P	55.01	11.82
205 Tl	2498.89	P	97.66	3.91
208 Pb	3327.78	P	25.02	0.75
209 Bi	655853.31	P	4384.00	0.67

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	282562.19	2.44	280047.78	100.9	80 - 120	

45	Sc	251762.20	1.25	251916.66	99.9	80 - 120
72	Ge	68037.34	1.09	67818.00	100.3	80 - 120
115	In	672458.63	1.18	669674.75	100.4	80 - 120
209	Bi	655853.31	0.67	651814.38	100.6	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0914a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0914a.B\005CALI.D\005CALI.D#
Date Acquired: Jun 9 2006 03:03 pm
Operator:
Sample Name: cs2,s3609
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 09 2006 02:59 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	291731.09	P	3034.00	1.04
9 Be	366.67	P	44.85	12.23
23 Na	524032.19	M	28120.00	5.37
26 Mg	14075.55	P	258.00	1.83
27 Al	15308.89	P	193.20	1.26
39 K	360120.00	P	4378.00	1.22
44 Ca	7827.31	P	45.87	0.59
45 Sc	254543.30	P	810.70	0.32
51 V	2508.24	P	223.40	8.91
52 Cr	3911.11	P	146.10	3.74
55 Mn	2832.22	P	54.19	1.91
57 Fe	8070.00	P	78.60	0.97
59 Co	2115.56	P	25.24	1.19
60 Ni	637.78	P	10.72	1.68
65 Cu	868.83	P	50.15	5.77
66 Zn	1694.44	P	107.10	6.32
72 Ge	68626.44	P	521.30	0.76
75 As	343.32	P	65.13	18.97
82 Se	55.11	P	14.33	26.00
95 Mo	707.78	P	61.94	8.75
109 Ag	1652.22	P	136.60	8.27
111 Cd	458.65	P	29.44	6.42
115 In	671214.13	P	4999.00	0.74
121 Sb	1628.89	P	26.74	1.64
137 Ba	896.67	P	32.83	3.66
205 Tl	4534.44	P	147.70	3.26
208 Pb	6237.78	P	35.95	0.58
209 Bi	656415.50	P	1245.00	0.19

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	291731.09	1.04	280047.78	104.2	80 - 120	

45	Sc	254543.33	0.32	251916.66	101.0	80 - 120
72	Ge	68626.45	0.76	67818.00	101.2	80 - 120
115	In	671214.06	0.74	669674.75	100.2	80 - 120
209	Bi	656415.56	0.19	651814.38	100.7	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0914a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0914a.B\006CALI.D\006CALI.D#
Date Acquired: Jun 9 2006 03:09 pm
Operator:
Sample Name: cs3,s3610
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 09 2006 03:05 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	294083.31	P	12190.00	4.15
9 Be	707.78	P	44.39	6.27
23 Na	666481.00	A	8077.00	1.21
26 Mg	26134.44	P	412.90	1.58
27 Al	16194.44	P	447.30	2.76
39 K	490132.19	P	3813.00	0.78
44 Ca	14642.52	P	191.90	1.31
45 Sc	256872.20	P	1041.00	0.41
51 V	4023.36	P	379.60	9.43
52 Cr	5554.44	P	180.60	3.25
55 Mn	5156.67	P	109.30	2.12
57 Fe	12483.33	P	178.40	1.43
59 Co	4054.44	P	30.25	0.75
60 Ni	1102.22	P	68.66	6.23
65 Cu	1266.55	P	26.03	2.06
66 Zn	3564.44	P	105.90	2.97
72 Ge	69706.22	P	280.10	0.40
75 As	629.60	P	11.24	1.79
82 Se	63.78	P	9.48	14.87
95 Mo	1242.22	P	25.02	2.01
109 Ag	3060.00	P	96.44	3.15
111 Cd	743.03	P	35.60	4.79
115 In	676354.19	P	5238.00	0.77
121 Sb	3071.11	P	114.00	3.71
137 Ba	1522.22	P	45.50	2.99
205 Tl	8510.00	P	116.70	1.37
208 Pb	11474.44	P	206.20	1.80
209 Bi	662818.88	P	1114.00	0.17

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	294083.31	4.15	280047.78	105.0	80 - 120	

45	Sc	256872.20	0.41	251916.66	102.0	80 - 120
72	Ge	69706.23	0.40	67818.00	102.8	80 - 120
115	In	676354.25	0.77	669674.75	101.0	80 - 120
209	Bi	662818.88	0.17	651814.38	101.7	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0914a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0914a.B\007CALI.D\007CALI.D#
Date Acquired: Jun 9 2006 03:15 pm
Operator:
Sample Name: cs4,s3611
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 09 2006 03:11 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	306608.91	P	3222.00	1.05
9	Be	7500.00	P	224.20	2.99
23	Na	2925939.00	A	55170.00	1.89
26	Mg	244086.70	P	1736.00	0.71
27	Al	32625.56	P	690.90	2.12
39	K	2814881.00	A	28000.00	0.99
44	Ca	84623.87	P	1210.00	1.43
45	Sc	262705.50	P	3109.00	1.18
51	V	36438.22	P	567.50	1.56
52	Cr	34172.22	P	312.00	0.91
55	Mn	45373.33	P	753.90	1.66
57	Fe	93921.11	P	1499.00	1.60
59	Co	38363.33	P	782.30	2.04
60	Ni	8777.78	P	19.53	0.22
65	Cu	10118.94	P	334.90	3.31
66	Zn	6895.56	P	24.57	0.36
72	Ge	71301.56	P	526.40	0.74
75	As	5635.97	P	122.40	2.17
82	Se	490.22	P	46.53	9.49
95	Mo	11198.89	P	227.10	2.03
109	Ag	30740.00	P	352.20	1.15
111	Cd	7194.72	P	153.20	2.13
115	In	683427.38	P	7065.00	1.03
121	Sb	29977.78	P	178.60	0.60
137	Ba	13846.67	P	75.35	0.54
205	Tl	77084.44	P	1403.00	1.82
208	Pb	110395.60	P	417.70	0.38
209	Bi	669171.13	P	1896.00	0.28

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	306608.88	1.05	280047.78	109.5	80 - 120	

45	Sc	262705.53	1.18	251916.66	104.3	80 - 120
72	Ge	71301.56	0.74	67818.00	105.1	80 - 120
115	In	683427.38	1.03	669674.75	102.1	80 - 120
209	Bi	669171.06	0.28	651814.38	102.7	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0914a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0914a.B\008CALI.D\008CALI.D#
Date Acquired: Jun 9 2006 03:20 pm
Operator:
Sample Name: cs5,s3605
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 09 2006 03:16 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	310308.91	P	3583.00	1.15
9 Be	74594.44	P	1324.00	1.77
23 Na	25368790.00	A	279300.00	1.10
26 Mg	2513878.00	A	49030.00	1.95
27 Al	217725.59	P	3212.00	1.48
39 K	25342300.00	A	186100.00	0.73
44 Ca	855032.50	A	4548.00	0.53
45 Sc	269223.31	P	2838.00	1.05
51 V	376408.69	P	3765.00	1.00
52 Cr	330653.31	P	2185.00	0.66
55 Mn	455451.09	P	7919.00	1.74
57 Fe	985345.19	A	10030.00	1.02
59 Co	390407.81	P	4456.00	1.14
60 Ni	84943.33	P	1316.00	1.55
65 Cu	98605.56	P	1067.00	1.08
66 Zn	55754.44	P	517.80	0.93
72 Ge	72776.89	P	517.20	0.71
75 As	56020.07	P	574.50	1.03
82 Se	4609.11	P	42.03	0.91
95 Mo	113702.20	P	740.70	0.65
109 Ag	306295.50	P	3714.00	1.21
111 Cd	68139.27	P	1012.00	1.49
115 In	675029.13	P	6928.00	1.03
121 Sb	297372.19	P	3568.00	1.20
137 Ba	135527.80	P	631.20	0.47
205 Tl	792888.88	P	1674.00	0.21
208 Pb	1079583.00	P	5155.00	0.48
209 Bi	647705.50	P	1494.00	0.23

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	310308.88	1.15	280047.78	110.8	80 - 120	

45 Sc	269223.31	1.05	251916.66	106.9	80 -	120
72 Ge	72776.89	0.71	67818.00	107.3	80 -	120
115 In	675029.13	1.03	669674.75	100.8	80 -	120
209 Bi	647705.56	0.23	651814.38	99.4	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0914a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06F0914a.B\009CALI.D\009CALI.D#
Date Acquired:	Jun 9 2006 03:26 pm
Operator:	
Sample Name:	cs6,s3606
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update:	Jun 09 2006 03:22 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	332671.09	P	4106.00	1.23
9	Be	160558.91	P	3947.00	2.46
23	Na	53028528.00	A	1086000.00	2.05
26	Mg	5066291.00	A	91940.00	1.81
27	Al	441222.19	P	8394.00	1.90
39	K	51283940.00	A	656300.00	1.28
44	Ca	1721362.00	A	18780.00	1.09
45	Sc	271152.19	P	2709.00	1.00
51	V	824757.13	A	9229.00	1.12
52	Cr	672948.88	P	4511.00	0.67
55	Mn	966946.63	A	16370.00	1.69
57	Fe	1978988.00	A	7577.00	0.38
59	Co	796907.69	P	4801.00	0.60
60	Ni	173890.00	P	1487.00	0.86
65	Cu	200145.30	P	1537.00	0.77
66	Zn	109890.00	P	1526.00	1.39
72	Ge	74310.00	P	559.60	0.75
75	As	114104.80	P	1157.00	1.01
82	Se	9126.45	P	37.18	0.41
95	Mo	229066.70	P	309.90	0.14
109	Ag	601661.13	P	5097.00	0.85
111	Cd	135675.50	P	990.80	0.73
115	In	664336.50	P	4566.00	0.69
121	Sb	589922.19	P	3432.00	0.58
137	Ba	268272.19	P	1284.00	0.48
205	Tl	1653380.00	A	14800.00	0.90
208	Pb	2142287.00	A	13400.00	0.63
209	Bi	625090.00	P	2132.00	0.34

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6	Li	332671.09	1.23	280047.78	118.8	80 -	120	

45	Sc	271152.19	1.00	251916.66	107.6	80 -	120
72	Ge	74310.00	0.75	67818.00	109.6	80 -	120
115	In	664336.50	0.69	669674.75	99.2	80 -	120
209	Bi	625090.00	0.34	651814.38	95.9	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0914a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**

ISTD: **Pass**

Calibration Summary

Calibration : C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Calib: Jun 09, 2006 15:27
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\06f0914a.b\003calb.d\	003calb.d#	Jun 9 2006 02:52 pm
2	...hem\1\data\06f0914a.b\004cali.d\	004cali.d#	Jun 9 2006 02:58 pm
3	...hem\1\data\06f0914a.b\005cali.d\	005cali.d#	Jun 9 2006 03:03 pm
4	...hem\1\data\06f0914a.b\006cali.d\	006cali.d#	Jun 9 2006 03:09 pm
5	...hem\1\data\06f0914a.b\007cali.d\	007cali.d#	Jun 9 2006 03:15 pm
6	...hem\1\data\06f0914a.b\008cali.d\	008cali.d#	Jun 9 2006 03:20 pm
7	...hem\1\data\06f0914a.b\009cali.d\	009cali.d#	Jun 9 2006 03:26 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	Excluded	---	ppb
Be	9	6	Y = 1.206E-1*X +3.352E-3(blank)	---	ppb
Na	23	45	Y = 4.815E-1*X +6.502E+1(blank)	---	ppb
Mg	25	45	Excluded	---	ppb
Mg	26	45	Y = 4.669E-2*X +2.772E-1(blank)	---	ppb
Al	27	45	Y = 3.812E-1*X +4.125E+0(blank)	---	ppb
K	39	45	Y = 4.698E-1*X +4.428E+1(blank)	---	ppb
Ca	43	45	Excluded	---	ppb
Ca	44	45	Y = 1.583E-2*X +7.788E-1(blank)	---	ppb
Sc	45	---	Excluded	---	ppb
V	51	72	Y = 2.733E+0*X +6.438E-1(blank)	---	ppb
Cr	52	72	Y = 2.256E+0*X +1.595E+0(blank)	---	ppb
Cr	53	72	Excluded	---	ppb
Fe	54	72	Excluded	---	ppb
Mn	55	72	Y = 3.226E+0*X +3.563E-1(blank)	---	ppb
Fe	57	72	Y = 6.666E-2*X +2.328E+0(blank)	---	ppb
Co	59	72	Y = 2.681E+0*X +8.030E-2(blank)	---	ppb
Ni	60	72	Y = 5.840E-1*X +1.335E-1(blank)	---	ppb
Cu	63	72	Excluded	---	ppb
Cu	65	72	Y = 6.730E-1*X +1.983E-1(blank)	---	ppb
Zn	66	72	Y = 3.663E-1*X +1.023E+0(blank)	---	ppb
Ge	72	---	Excluded	---	ppb
As	75	72	Y = 3.839E-1*X +3.236E-2(blank)	---	ppb
(As)	77	72	Excluded	---	ppb
Se	82	72	Y = 3.079E-2*X +1.917E-2(blank)	---	ppb
(As)	83	72	Excluded	---	ppb
(Ca)	88	72	Excluded	---	ppb
Y	89	72	Excluded	---	ppb
Mo	95	72	Y = 7.722E-1*X +9.012E-2(blank)	---	ppb
Mo	98	72	Excluded	---	ppb
(Mo)	99	72	Excluded	---	ppb
(Cd)	106	72	Excluded	---	ppb
(Cd)	108	72	Excluded	---	ppb
Ag	109	72	Y = 2.040E+0*X +5.404E-2(blank)	---	ppb
Cd	111	72	Y = 4.584E-1*X +8.078E-2(blank)	---	ppb
Cd	114	72	Excluded	---	ppb
In	115	---	Excluded	---	ppb
(In)	118	---	Excluded	---	ppb
Sb	121	115	Y = 2.216E-1*X +6.544E-3(blank)	---	ppb
Ba	135	115	Excluded	---	ppb
Ba	137	115	Y = 1.008E-1*X +1.361E-2(blank)	---	ppb
Tb	159	---	Excluded	---	ppb
Er	166	115	Excluded	---	ppb
Tl	205	209	Y = 6.510E-1*X +3.801E-2(blank)	---	ppb
(Pb)	206	209	Excluded	---	ppb
(Pb)	207	209	Excluded	---	ppb
Pb	208	209	Y = 8.518E-1*X +3.810E-2(blank)	---	ppb
Bi	209	---	Excluded	---	ppb
Th	232	209	--------	---	ppb
U	238	209	--------	---	ppb

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05
Seqnum : 56231280010
Cal : 56231280001
Standards: S3601

File : f0914010
Caldate: 09-JUN-2006

IDF : 1.0
Time : 09-JUN-2006 15:31

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	2.1198	0.4398	100.0	104.6	ug/L	5	10	
Antimony	0.2301	0.2250	100.0	101.5	ug/L	2	10	
Arsenic	0.4233	0.3934	100.0	102.4	ug/L	2	10	
Barium	0.1146	0.1035	100.0	102.5	ug/L	3	10	
Beryllium	0.1259	0.1237	100.0	102.6	ug/L	3	10	
Cadmium	0.5816	0.4669	100.0	101.7	ug/L	2	10	
Calcium	0.0214	0.0163	10000	10260	ug/L	3	10	
Chromium	3.3229	2.3454	100.0	103.3	ug/L	3	10	
Cobalt	2.8852	2.7647	100.0	103.1	ug/L	3	10	
Copper	0.8470	0.6904	100.0	102.3	ug/L	2	10	
Iron	0.0815	0.0689	10000	10310	ug/L	3	10	
Lead	0.8910	0.8532	100.0	100.1	ug/L	0	10	
Magnesium	0.0492	0.0495	10000	10600	ug/L	6	10	
Manganese	3.7618	3.2087	100.0	99.35	ug/L	-1	10	
Molybdenum	0.8520	0.7802	100.0	100.9	ug/L	1	10	
Nickel	0.8083	0.5945	100.0	101.6	ug/L	2	10	
Potassium	0.7696	0.4841	10000	10210	ug/L	2	10	
Selenium	0.0446	0.0321	100.0	103.6	ug/L	4	10	
Silver	2.2340	2.0985	100.0	102.8	ug/L	3	10	
Sodium	0.9746	0.5056	10000	10370	ug/L	4	10	
Thallium	0.6364	0.6815	50.00	52.28	ug/L	5	10	
Vanadium	2.8915	2.6557	100.0	96.95	ug/L	-3	10	
Zinc	1.2524	0.3917	100.0	104.2	ug/L	4	10	

ISTD (ICALBLK f0914003)	ICALBLK Abund	Abund	%Drift
Lithium	280048	328709	17.38
Scandium	251917	268819	6.71
Germanium	67818	73861	8.91
Indium	669675	659195	-1.56
Bismuth	651814	634767	-2.62

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56231280027
Cal : 56231280001
Standards: S3621

File : f0914027
Caldate: 09-JUN-2006

IDF : 1.0
Time : 09-JUN-2006 17:06

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.1198	0.4214	150.0	155.0	ug/L	3	10	
Antimony	0.2301	0.2152	150.0	145.6	ug/L	-3	10	
Arsenic	0.4233	0.3735	150.0	145.8	ug/L	-3	10	
Barium	0.1146	0.1014	150.0	150.8	ug/L	1	10	
Beryllium	0.1259	0.1199	150.0	149.2	ug/L	-1	10	
Cadmium	0.5816	0.4503	150.0	147.2	ug/L	-2	10	
Calcium	0.0214	0.0158	15000	14940	ug/L	0	10	
Chromium	3.3229	2.2046	150.0	145.9	ug/L	-3	10	
Cobalt	2.8852	2.5868	150.0	144.7	ug/L	-4	10	
Copper	0.8470	0.6567	150.0	146.1	ug/L	-3	10	
Iron	0.0815	0.0654	15000	14680	ug/L	-2	10	
Lead	0.8910	0.8229	150.0	144.9	ug/L	-3	10	
Magnesium	0.0492	0.0460	15000	14770	ug/L	-2	10	
Manganese	3.7618	3.0627	150.0	142.3	ug/L	-5	10	
Molybdenum	0.8520	0.7645	150.0	148.4	ug/L	-1	10	
Nickel	0.8083	0.5625	150.0	144.2	ug/L	-4	10	
Potassium	0.7696	0.4696	15000	14900	ug/L	-1	10	
Selenium	0.0446	0.0307	150.0	149.2	ug/L	-1	10	
Silver	2.2340	2.0188	150.0	148.4	ug/L	-1	10	
Sodium	0.9746	0.4791	15000	14790	ug/L	-1	10	
Thallium	0.6364	0.6439	150.0	148.3	ug/L	-1	10	
Vanadium	2.8915	2.5145	150.0	137.8	ug/L	-8	10	
Zinc	1.2524	0.3659	150.0	147.0	ug/L	-2	10	

ISTD (ICALBLK f0914003)	ICALBLK Abund	Abund	%Drift
Lithium	280048	285887	2.09
Scandium	251917	244971	-2.76
Germanium	67818	66147	-2.46
Indium	669675	603325	-9.91
Bismuth	651814	593862	-8.89

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56231280039
Cal : 56231280001
Standards: S3621

File : f0914039
Caldate: 09-JUN-2006

IDF : 1.0
Time : 09-JUN-2006 18:13

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.1198	0.4287	150.0	157.9	ug/L	5	10	
Antimony	0.2301	0.2163	150.0	146.4	ug/L	-2	10	
Arsenic	0.4233	0.3810	150.0	148.8	ug/L	-1	10	
Barium	0.1146	0.1018	150.0	151.4	ug/L	1	10	
Beryllium	0.1259	0.1206	150.0	150.0	ug/L	0	10	
Cadmium	0.5816	0.4540	150.0	148.4	ug/L	-1	10	
Calcium	0.0214	0.0160	15000	15100	ug/L	1	10	
Chromium	3.3229	2.2037	150.0	145.8	ug/L	-3	10	
Cobalt	2.8852	2.5943	150.0	145.1	ug/L	-3	10	
Copper	0.8470	0.6450	150.0	143.5	ug/L	-4	10	
Iron	0.0815	0.0652	15000	14630	ug/L	-2	10	
Lead	0.8910	0.8256	150.0	145.3	ug/L	-3	10	
Magnesium	0.0492	0.0457	15000	14680	ug/L	-2	10	
Manganese	3.7618	3.0253	150.0	140.6	ug/L	-6	10	
Molybdenum	0.8520	0.7796	150.0	151.3	ug/L	1	10	
Nickel	0.8083	0.5620	150.0	144.1	ug/L	-4	10	
Potassium	0.7696	0.4679	15000	14850	ug/L	-1	10	
Selenium	0.0446	0.0318	150.0	154.1	ug/L	3	10	
Silver	2.2340	2.0483	150.0	150.6	ug/L	0	10	
Sodium	0.9746	0.4723	15000	14580	ug/L	-3	10	
Thallium	0.6364	0.6445	150.0	148.4	ug/L	-1	10	
Vanadium	2.8915	2.5338	150.0	138.9	ug/L	-7	10	
Zinc	1.2524	0.3638	150.0	146.2	ug/L	-3	10	

ISTD (ICALBLK f0914003)	ICALBLK Abund	Abund	%Drift
Lithium	280048	264223	-5.65
Scandium	251917	229819	-8.77
Germanium	67818	61922	-8.69
Indium	669675	572851	-14.46
Bismuth	651814	566621	-13.07

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56231280013
Cal : 56231280001

File : f0914013
Caldate: 09-JUN-2006

IDF : 1.0
Time : 09-JUN-2006 15:48

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.009371]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.007600]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.07228]	0.2500	0.03982	ug/L	!ib
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2575]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0914003)	ICALBLK Abund	Abund	%Drift
Lithium	280048	335602	19.84
Scandium	251917	267356	6.13
Germanium	67818	73754	8.75
Indium	669675	677120	1.11
Bismuth	651814	653111	0.20

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56231280029
Cal : 56231280001

File : f0914029
Caldate: 09-JUN-2006

IDF : 1.0
Time : 09-JUN-2006 17:18

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	[0.07034]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.02489]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.03204]	0.2500	0.008548	ug/L	!ib
Copper	[0.05841]	0.5000	0.04426	ug/L	!ib
Iron	[8.455]	50.00	6.980	ug/L	!ib
Lead	[0.02742]	0.2500	0.005283	ug/L	!ib
Magnesium	[5.331]	50.00	3.054	ug/L	!ib
Manganese	[0.03890]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.03233]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1492]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0914003)	ICALBLK Abund	Abund	%Drift
Lithium	280048	289937	3.53
Scandium	251917	245687	-2.47
Germanium	67818	66180	-2.42
Indium	669675	625227	-6.64
Bismuth	651814	615387	-5.59

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56231280041 File : f0914041 Time : 09-JUN-2006 18:25
Cal : 56231280001 Caldate: 09-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	3.230	0.5000	2.123	ug/L	ib ***
Antimony	[0.05814]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1325]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.04308]	0.2500	0.009674	ug/L	!ib
Cadmium	[0.05345]	0.2500	0.04566	ug/L	!ib
Calcium	[11.78]	50.00	7.739	ug/L	!ib
Chromium	[0.06520]	0.5000	0.03860	ug/L	!ib
Cobalt	[0.04369]	0.2500	0.008548	ug/L	!ib
Copper	[0.07237]	0.5000	0.04426	ug/L	!ib
Iron	[14.38]	50.00	6.980	ug/L	!ib
Lead	[0.02234]	0.2500	0.005283	ug/L	!ib
Magnesium	[11.61]	50.00	3.054	ug/L	!ib
Manganese	[0.04831]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.1112]	0.2500	0.03982	ug/L	!ib
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2495]	0.5000	0.1891	ug/L	!ib
Silver	[0.03316]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1553]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0914003)	ICALBLK Abund	Abund	%Drift
Lithium	280048	265533	-5.18
Scandium	251917	225999	-10.29
Germanium	67818	61629	-9.13
Indium	669675	580340	-13.34
Bismuth	651814	579601	-11.08

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56231280014 File : f0914014 Time : 09-JUN-2006 15:54
Cal : 56231280001 Caldate: 09-JUN-2006
Standards: S3612, S3310

Analyte	Quant	RL	Units	Flags
Antimony	2.154	0.2500	ug/L	
Arsenic	0.5585	0.5000	ug/L	
Barium	0.8362	0.2500	ug/L	
Beryllium	[0.04061]	0.2500	ug/L	
Cadmium	[0.06623]	0.2500	ug/L	
Chromium	1.444	0.5000	ug/L	
Cobalt	2.841	0.2500	ug/L	
Copper	2.257	0.5000	ug/L	
Lead	1.234	0.2500	ug/L	
Manganese	1.076	0.2500	ug/L	
Nickel	1.467	0.2500	ug/L	
Selenium	0.8813	0.5000	ug/L	
Silver	[0.1607]	0.2500	ug/L	
Thallium	[0.2622]	0.5000	ug/L	
Vanadium	[0.1640]	0.5000	ug/L	
Zinc	3.638	0.5000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	92500	ug/L	93
Calcium	300000	287400	ug/L	96
Iron	250000	239000	ug/L	96
Magnesium	100000	86580	ug/L	87
Molybdenum	2000	2194	ug/L	110
Potassium	100000	93160	ug/L	93
Sodium	250000	214200	ug/L	86

ISTD (ICALBLK f0914003)	ICALBLK Abund	Abund	%Drift
Lithium	280048	254509	-9.12
Scandium	251917	256412	1.78
Germanium	67818	67195	-0.92
Indium	669675	617547	-7.78
Bismuth	651814	532087	-18.37

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56231280015 File : f0914015 Time : 09-JUN-2006 15:59
Cal : 56231280001 Caldate: 09-JUN-2006
Standards: S3620, S3310

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	92930	ug/L	-7		
Arsenic	100.0	106.7	ug/L	7	20	
Cadmium	100.0	104.9	ug/L	5	20	
Calcium	300000	292500	ug/L	-3		
Chromium	200.0	221.0	ug/L	11	20	
Cobalt	200.0	216.4	ug/L	8	20	
Copper	200.0	197.6	ug/L	-1	20	
Iron	250000	237800	ug/L	-5		
Magnesium	100000	86250	ug/L	-14		
Manganese	200.0	224.1	ug/L	12	20	
Molybdenum	2000	2225	ug/L	11		
Nickel	200.0	201.6	ug/L	1	20	
Potassium	100000	94600	ug/L	-5		
Selenium	100.0	94.66	ug/L	-5	20	
Silver	50.00	53.94	ug/L	8	20	
Sodium	250000	217200	ug/L	-13		
Vanadium	200.0	226.7	ug/L	13	20	
Zinc	100.0	107.8	ug/L	8	20	

ISTD (ICALBLK f0914003)	ICALBLK Abund	Abund	%Drift
Scandium	251917	248683	-1.28
Germanium	67818	65038	-4.10

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56231280034 File : f0914034 Time : 09-JUN-2006 17:46
Cal : 56231280001 Caldate: 09-JUN-2006
Standards: S3602, S3310

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100.0	93420	ug/L	93420
Antimony	100.0	2.213	ug/L	2
Arsenic	100.0	0.6357	ug/L	1
Barium	100.0	0.8338	ug/L	1
Beryllium	100.0	0.03623	ug/L	0
Cadmium	100.0	0.1277	ug/L	0
Calcium	10000	296200	ug/L	2962
Chromium	100.0	1.495	ug/L	1
Cobalt	100.0	2.839	ug/L	3
Copper	100.0	2.146	ug/L	2
Iron	10000	234700	ug/L	2347
Lead	100.0	1.241	ug/L	1
Magnesium	10000	86450	ug/L	865
Manganese	100.0	1.256	ug/L	1
Molybdenum	100.0	2233	ug/L	2233
Nickel	100.0	1.272	ug/L	1
Potassium	10000	97100	ug/L	971
Selenium	100.0	1.109	ug/L	1
Silver	100.0	0.1910	ug/L	0
Sodium	10000	212400	ug/L	2124
Thallium	50.00	0.05825	ug/L	0
Vanadium	100.0	0.09896	ug/L	0
Zinc	100.0	3.247	ug/L	3

ISTD (ICALBLK f0914003)	ICALBLK Abund	Abund	%Drift
Lithium	280048	222334	-20.61
Scandium	251917	222793	-11.56
Germanium	67818	58562	-13.65
Indium	669675	550694	-17.77
Bismuth	651814	495250	-24.02

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56231280035 File : f0914035 Time : 09-JUN-2006 17:51
Cal : 56231280001 Caldate: 09-JUN-2006
Standards: S3620, S3310

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	94330	ug/L	-6		
Arsenic	100.0	105.1	ug/L	5	20	
Cadmium	100.0	101.8	ug/L	2	20	
Calcium	300000	292400	ug/L	-3		
Chromium	200.0	216.7	ug/L	8	20	
Cobalt	200.0	208.2	ug/L	4	20	
Copper	200.0	195.4	ug/L	-2	20	
Iron	250000	234000	ug/L	-6		
Magnesium	100000	87750	ug/L	-12		
Manganese	200.0	220.2	ug/L	10	20	
Molybdenum	2000	2194	ug/L	10		
Nickel	200.0	197.4	ug/L	-1	20	
Potassium	100000	95680	ug/L	-4		
Selenium	100.0	93.50	ug/L	-7	20	
Silver	50.00	52.78	ug/L	6	20	
Sodium	250000	218000	ug/L	-13		
Vanadium	200.0	213.9	ug/L	7	20	
Zinc	100.0	104.3	ug/L	4	20	

ISTD (ICALBLK f0914003)	ICALBLK Abund	Abund	%Drift
Scandium	251917	225463	-10.50
Germanium	67818	59217	-12.68

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56231280 Instrument: MET05 Agilent ICP-MS Begun: 09-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	f0914001	TUN				09-JUN-2006 14:40	1.0	1.0				1	
002	f0914002	X	RINSE			09-JUN-2006 14:47	1.0					2	
003	f0914003	ICALBLK	STD-BLK			09-JUN-2006 14:52	1.0	1.0				2	
004	f0914004	ICAL	CS1			09-JUN-2006 14:58	1.0	1.0				3	
005	f0914005	ICAL	CS2			09-JUN-2006 15:03	1.0	1.0				4	
006	f0914006	ICAL	CS3			09-JUN-2006 15:09	1.0	1.0				5	
007	f0914007	ICAL	CS4			09-JUN-2006 15:15	1.0	1.0				6	
008	f0914008	ICAL	CS5			09-JUN-2006 15:20	1.0	1.0				7	
009	f0914009	ICAL	CS6			09-JUN-2006 15:26	1.0	1.0				8	
010	f0914010	ICV				09-JUN-2006 15:31	1.0	1.0			1	9	
011	f0914011	X	RINSE			09-JUN-2006 15:37	1.0					2	
012	f0914012	X				09-JUN-2006 15:42	1.0				1	2	
013	f0914013	ICB				09-JUN-2006 15:48	1.0	1.0			1	2	
014	f0914014	ICSA				09-JUN-2006 15:54	1.0	1.0			1	10 2	7:CA=287400
015	f0914015	ICSAB				09-JUN-2006 15:59	1.0	1.0			1	11 2	12:CA=292500
016	f0914016	X	RINSE			09-JUN-2006 16:05	1.0					2	
017	f0914017	X	RINSE			09-JUN-2006 16:10	1.0					2	
018	f0914018	BLANK	QC342878	114148	Filtra	09-JUN-2006 16:16	1.0	1.0			1	2	
019	f0914019	SAMPLE	187086-006	114148	Filtra	09-JUN-2006 16:22	1.0	1.0			1	2	1:NA=32050.0
020	f0914020	MSS	187019-001	114103	Water	09-JUN-2006 16:27	10.0	1.0	4		1	2	3:NA=37690.0
021	f0914021	X	AS MISS CUP	114103	Water	09-JUN-2006 16:33	10.0				1	2	
022	f0914022	X	AS MISS CUP	114103	Water	09-JUN-2006 16:38	10.0				1	2	
023	f0914023	X	AS MISS CUP	114057	Filtra	09-JUN-2006 16:44	1.0				1	2 spk	
024	f0914024	X	AS MISS CUP	114057	Filtra	09-JUN-2006 16:50	1.0				1	2 spk	
025	f0914025	SAMPLE	187019-002	114103	Water	09-JUN-2006 16:55	10.0	1.0			1	2	2:NA=40050.0
026	f0914026	X	RINSE			09-JUN-2006 17:01	1.0					2	
027	f0914027	CCV				09-JUN-2006 17:06	1.0	1.0			1	12	
028	f0914028	X	RINSE			09-JUN-2006 17:12	1.0					2	
029	f0914029	CCB				09-JUN-2006 17:18	1.0	1.0			1	2	
030	f0914030	X				09-JUN-2006 17:23	1.0		1		1	2	

Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3621 13=S3602
Flags used: spk=5% spike rule

Analyst: K Carlegn Date: 6/9/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56231280 Instrument: MET05 Agilent ICP-MS Begun: 09-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
031	f0914031	SAMPLE	187019-003	114103	Water	09-JUN-2006 17:29	5.0	1.0			1	2	2:NA=75260.0
032	f0914032	SAMPLE	187065-016	114057	Filtra	09-JUN-2006 17:34	1.0	1.0	4		1	2 spk	4:MG=78850.0
033	f0914033	SAMPLE	187065-017	114057	Filtra	09-JUN-2006 17:40	1.0	1.0	4		1	2 spk	4:MG=77350.0
034	f0914034	ICSA				09-JUN-2006 17:46	1.0	1.0			1	13 2	7:CA=296200
035	f0914035	ICSAB				09-JUN-2006 17:51	1.0	1.0			1	11 2	11:CA=292400
036	f0914036	X	RINSE			09-JUN-2006 17:56	1.0					2	
037	f0914037	X	RINSE			09-JUN-2006 18:02	1.0					2	
038	f0914038	X	RINSE			09-JUN-2006 18:08	1.0					2	
039	f0914039	CCV				09-JUN-2006 18:13	1.0	1.0			1	12	
040	f0914040	X	RINSE			09-JUN-2006 18:19	1.0					2	
041	f0914041	CCB				09-JUN-2006 18:25	1.0	1.0	1		1	2	
042	f0914042	X				09-JUN-2006 18:30	1.0		1		1	2	
043	f0914043	BLANK	QC343437	114283	Filtra	09-JUN-2006 18:50	1.0	1.0			1	2	

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Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3621 13=S3602
Flags used: spk=5% spike rule

Analyst: K Carlyn Date: 6/9/06

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187065 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
187065-001	MET05	06/09/06 01:43	1.0		+	+			+																	
187065-001	MET06	06/13/06 03:24	10.0										+													
187065-001	MET08	06/14/06 18:22	1.0	+						+	+			+	+	+	+		+	+					+	+
187065-001	MET08	06/14/06 18:31	10.0																				+			
187065-002	MET05	06/09/06 02:16	1.0		+	+			+																	
187065-002	MET06	06/13/06 04:08	10.0										+													
187065-002	MET08	06/14/06 18:58	1.0	+						+	+			+	+	+	+		+	+			+		+	+
187065-003	MET05	06/09/06 02:22	1.0		+	+			+																	
187065-003	MET06	06/13/06 04:15	10.0										+													
187065-003	MET08	06/14/06 19:01	1.0	+						+	+			+	+	+	+		+	+					+	+
187065-003	MET08	06/15/06 14:01	10.0																				+			
187065-004	MET05	06/09/06 02:55	1.0		+	+			+																	
187065-004	MET06	06/13/06 04:59	10.0										+													
187065-004	MET08	06/14/06 19:05	1.0	+						+	+			+	+	+	+		+	+					+	+
187065-004	MET08	06/15/06 14:10	10.0																				+			
187065-005	MET05	06/09/06 03:01	1.0		+	+			+																	
187065-005	MET06	06/13/06 05:06	10.0										+													
187065-005	MET08	06/14/06 19:08	1.0	+						+	+			+	+		+		+	+					+	+
187065-005	MET08	06/15/06 14:13	10.0													+							+			
187065-006	MET04	06/01/06 13:47	1.0															+								
187065-006	MET05	06/09/06 03:06	1.0		+	+			+												+	+		+		
187065-006	MET06	06/13/06 05:14	10.0										+													
187065-006	MET08	06/14/06 19:11	1.0	+			+	+		+	+	+		+	+	+	+		+	+			+		+	+
187065-007	MET05	06/09/06 03:12	1.0		+	+			+												+	+		+		
187065-007	MET06	06/13/06 05:21	10.0										+													
187065-007	MET08	06/14/06 19:15	1.0	+			+	+		+	+	+		+	+	+	+		+	+			+		+	+
187065-009	MET05	06/09/06 03:17	1.0		+	+			+												+	+		+		
187065-009	MET06	06/13/06 05:29	10.0										+													
187065-009	MET08	06/14/06 19:19	1.0	+			+	+		+	+	+		+	+	+	+		+	+					+	+
187065-009	MET08	06/15/06 14:17	50.0																				+			
187065-011	MET05	06/09/06 03:23	1.0		+	+			+												+	+		+		
187065-011	MET06	06/13/06 05:36	10.0										+													
187065-011	MET08	06/14/06 19:23	1.0	+			+	+		+	+	+		+	+	+	+		+	+					+	+
187065-011	MET08	06/15/06 14:21	10.0																				+			
187065-012	MET04	06/01/06 13:49	1.0															+								
187065-012	MET05	06/09/06 03:29	1.0		+	+			+												+	+		+		
187065-012	MET06	06/13/06 05:43	10.0										+													
187065-012	MET08	06/14/06 19:27	1.0	+			+	+			+	+		+	+				+	+					+	+
187065-012	MET08	06/15/06 14:25	10.0							+						+	+						+			

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187065 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
187065-013	MET04	06/01/06 13:56	1.0															+								
187065-013	MET05	06/09/06 03:34	1.0		+	+			+												+	+		+		
187065-013	MET06	06/13/06 05:50	10.0										+													
187065-013	MET08	06/14/06 19:31	1.0	+			+	+			+	+		+	+				+	+					+	+
187065-013	MET08	06/15/06 14:28	10.0							+						+	+						+			
187065-014	MET05	06/09/06 03:40	1.0		+	+			+																	
187065-014	MET06	06/13/06 05:58	10.0										+													
187065-014	MET08	06/14/06 19:48	1.0	+						+	+				+	+	+		+	+					+	+
187065-014	MET08	06/15/06 14:31	1.0											+									+			
187065-015	MET05	06/09/06 03:45	1.0		+	+			+																	
187065-015	MET06	06/13/06 06:05	10.0										+													
187065-015	MET08	06/14/06 19:53	1.0	+						+	+				+	+	+		+	+					+	+
187065-015	MET08	06/15/06 14:50	1.0											+									+			
187065-016	MET05	06/09/06 04:19	1.0		+	+																				
187065-016	MET05	06/09/06 17:34	1.0						+																	
187065-016	MET06	06/13/06 06:49	10.0										+													
187065-016	MET08	06/14/06 19:56	1.0	+						+	+				+	+	+		+	+					+	+
187065-016	MET08	06/15/06 14:53	1.0											+									+			
187065-017	MET05	06/09/06 04:24	1.0		+	+																				
187065-017	MET05	06/09/06 17:40	1.0						+																	
187065-017	MET06	06/13/06 06:57	10.0										+													
187065-017	MET08	06/14/06 19:59	1.0	+						+	+				+	+	+		+	+					+	+
187065-017	MET08	06/15/06 14:56	1.0											+									+			
QC342325	MET04	06/01/06 13:27	1.0															+								
QC342326	MET04	06/01/06 13:30	1.0															+								
QC342327	MET04	06/01/06 13:32	1.0															+								
QC342328	MET04	06/01/06 13:37	1.0															+								
QC342329	MET04	06/01/06 13:39	1.0															+								
QC342496	MET05	06/09/06 01:20	1.0		+	+			+												+	+		+		
QC342497	MET05	06/09/06 01:26	1.0		+	+			+												+	+		+		
QC342498	MET05	06/09/06 01:32	1.0		+	+			+												+	+		+		
QC342499	MET05	06/09/06 01:54	1.0		+	+			+												+	+		+		
QC342500	MET05	06/09/06 01:59	1.0		+	+			+												+	+		+		

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187065 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
QC342501	MET05	06/09/06 01:48	5.0		+	+			+												+	+		+		
QC342502	MET05	06/09/06 02:05	1.0		+	+		+	+			+	+		+		+		+	+	+	+		+	+	+
QC343475	MET06	06/13/06 02:54	10.0										+													
QC343475	MET08	06/14/06 18:12	1.0	+			+	+		+	+	+		+	+	+	+		+	+			+		+	+
QC343476	MET06	06/13/06 03:02	10.0										+													
QC343476	MET08	06/14/06 18:16	1.0	+			+	+		+	+	+		+	+	+	+		+	+			+		+	+
QC343477	MET06	06/13/06 03:09	10.0										+													
QC343477	MET08	06/14/06 18:19	1.0	+			+	+		+	+	+		+	+	+	+		+	+			+		+	+
QC343478	MET06	06/13/06 03:38	10.0										+													
QC343478	MET08	06/14/06 18:26	1.0	+			+	+		+	+	+		+	+	+	+		+	+			+		+	+
QC343479	MET06	06/13/06 03:46	10.0										+													
QC343479	MET08	06/14/06 18:28	1.0	+			+	+		+	+	+		+	+	+	+		+	+			+		+	+
QC343480	MET06	06/13/06 03:31	50.0										+													
QC343480	MET08	06/14/06 18:34	5.0	+			+	+		+	+	+		+	+	+	+		+	+					+	+
QC343480	MET08	06/14/06 18:40	50.0																				+			
QC343481	MET06	06/13/06 03:53	10.0	+	+	+	+	+	+	+	+	+	+	+	+		+		+	+	+	+		+	+	+
QC343481	MET08	06/14/06 18:37	1.0													+										

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

Inst : MET04
Calnum : 46219668001
Units : ug/L

Date : 01-JUN-2006 13:08
X Axis : R

Reviewer: ---
Type : WATER

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	114015	46219668002	Std02Rep1	01-JUN-2006 13:11	S3594 (500X)
L2	114015	46219668003	Std03Rep1	01-JUN-2006 13:14	S3594 (200X)
L3	114015	46219668004	Std04Rep1	01-JUN-2006 13:16	S3594 (50X)
L4	114015	46219668005	Std05Rep1	01-JUN-2006 13:18	S3594 (20X)
L5	114015	46219668006	Std06Rep1	01-JUN-2006 13:21	S3594 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Mercury	2885.0	2582.0	2428.5	2317.4	2286.4	LINR	-0.0751	4.40E-4		2499.9	1.000	.99	

393

Instrument amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

4621966800

WinHg Database 1.5

File Utility Help

RN RN

Protocol hgppb BUSY Dataset/Proto 060106 /hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 4.39699e-4

C -7.50565e-2

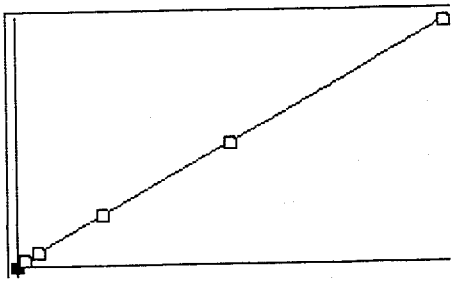
Rho .999962

Type

µ Abs.
22864

Accepted

New



Include S1 Rep

01-Jun-06 13:21 Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.030	-.030	104	0	103		
02	.20000	.179	-.021	578	0%	577		
03	.50000	.493	-.007	1291	0%	1291		
04	2.0000	2.06	.061	4857	0%	4857		
05	5.0000	5.02	.020	11588	0%	11587		
06	10.000	9.98	-.022	22865	0%	22864		

Ready NUM

Folder: 060106
Protocol: hgppb
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 2 13:08:52 01 Jun 06 HG

Hg .000 ppb 103
Bkgd 1 20142642

*** Standard: 2 Rep: 1 Seq: 3 13:11:02 01 Jun 06 HG

Hg .200 ppb 577
Bkgd 1 20138017

*** Standard: 3 Rep: 1 Seq: 4 13:14:21 01 Jun 06 HG

Hg .500 ppb 1291
Bkgd 1 20133482

*** Standard: 4 Rep: 1 Seq: 5 13:16:39 01 Jun 06 HG

Hg 2.00 ppb 4857
Bkgd 1 20129780

*** Standard: 5 Rep: 1 Seq: 6 13:18:55 01 Jun 06 HG

Hg 5.00 ppb 11587
Bkgd 1 20126702

*** Standard: 6 Rep: 1 Seq: 7 13:21:22 01 Jun 06 HG

Hg 10.0 ppb 22864
Bkgd 1 20124235

*** Check Standard: 2 Ck2S3596 Seq: 8 13:23:33 01 Jun 06 HG
Line Flag Intensities
Hg 10807
Bkgd 1 20115706

*** Check Standard: 1 Ck1ICB Seq: 9 13:25:40 01 Jun 06 HG
Line Flag Intensities
Hg -4
Bkgd 1 20116887

*** Sample ID: qc342325 Seq: 10 13:27:45 01 Jun 06 HG
114015,1

Hg -.059 ppb 36
Bkgd 1 20121552

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

equence: 46219668 Instrument: MET04 HydraAA HG Analyzer Begun: 01-JUN-2006
nalytical Method: EPA 7470A SOP Version: HG_water_rv7
nalyte: Mercury

Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
1 114015	ICALBLK	Std01Rep1				01-JUN-2006 13:08	1.0	1.0									
2 114015	ICAL	Std02Rep1				01-JUN-2006 13:11	1.0	1.0									
3 114015	ICAL	Std03Rep1				01-JUN-2006 13:14	1.0	1.0									
4 114015	ICAL	Std04Rep1				01-JUN-2006 13:16	1.0	1.0									
5 114015	ICAL	Std05Rep1				01-JUN-2006 13:18	1.0	1.0									
6 114015	ICAL	Std06Rep1				01-JUN-2006 13:21	1.0	1.0									
7 114015	ICV					01-JUN-2006 13:23	1.0	1.0	2	5.000	46219668001	4.680		ug/L	94		
8 114015	ICB					01-JUN-2006 13:25	1.0	1.0			46219668001	ND	0.20	ug/L			
9 114015	BLANK	QC342325		114015	Water	01-JUN-2006 13:27	1.0	1.0			46219668001	ND	0.20	ug/L			
10 114015	BS	QC342326		114015	Water	01-JUN-2006 13:30	1.0	1.0		5.000	46219668001	4.970	0.20	ug/L	99		
11 114015	BSD	QC342327		114015	Water	01-JUN-2006 13:32	1.0	1.0		5.000	46219668001	5.020	0.20	ug/L	100	1	
12 114015	MSS	187133-003		114015	Filtra	01-JUN-2006 13:34	1.0	1.0			46219668001	ND	0.20	ug/L			
13 114015	MS	QC342328	187133-003	114015	Filtra	01-JUN-2006 13:37	1.0	1.0		5.000	46219668001	5.550	0.20	ug/L	111		
14 114015	MSD	QC342329	187133-003	114015	Filtra	01-JUN-2006 13:39	1.0	1.0		5.000	46219668001	5.600	0.20	ug/L	112	1	
15 114015	XXX	rinse		114015	Water	01-JUN-2006 13:41	1.0	1.0		0.1200	46219668001	ND	0.20	ug/L	-48		
16 114015	SAMPLE	187011-002		114015	Water	01-JUN-2006 13:44	1.0	1.0			46219668001	ND	0.20	ug/L			
17 114015	SAMPLE	187065-006		114015	Filtra	01-JUN-2006 13:47	1.0	1.0			46219668001	ND	0.20	ug/L			
18 114015	SAMPLE	187065-012		114015	Filtra	01-JUN-2006 13:49	1.0	1.0			46219668001	ND	0.20	ug/L			
19 114015	CCV					01-JUN-2006 13:51	1.0	1.0	3	2.500	46219668001	2.390		ug/L	96		
20 114015	CCB					01-JUN-2006 13:54	1.0	1.0			46219668001	ND	0.20	ug/L			
21 114015	SAMPLE	187065-013		114015	Filtra	01-JUN-2006 13:56	1.0	1.0			46219668001	ND	0.20	ug/L			
22 114015	SAMPLE	187087-002		114015	Filtra	01-JUN-2006 13:58	1.0	1.0			46219668001	ND	0.20	ug/L			
23 114015	SAMPLE	187087-003		114015	Filtra	01-JUN-2006 14:00	1.0	1.0			46219668001	1.4	0.20	ug/L			
24 114015	SAMPLE	187087-004		114015	Filtra	01-JUN-2006 14:02	1.0	1.0			46219668001	1.4	0.20	ug/L			
25 114015	SAMPLE	187087-005		114015	Filtra	01-JUN-2006 14:04	1.0	1.0			46219668001	ND	0.20	ug/L			
26 114015	SAMPLE	187104-002		114015	Filtra	01-JUN-2006 14:06	1.0	1.0			46219668001	ND	0.20	ug/L			
27 114015	SAMPLE	187104-003		114015	Filtra	01-JUN-2006 14:08	1.0	1.0			46219668001	ND	0.20	ug/L			
28 114015	SAMPLE	187104-004		114015	Filtra	01-JUN-2006 14:11	1.0	1.0			46219668001	0.33	0.20	ug/L			
29 114015	SAMPLE	187110-006		114015	Water	01-JUN-2006 14:13	1.0	1.0			46219668001	ND	0.20	ug/L			
30 114015	SAMPLE	187133-004		114015	Filtra	01-JUN-2006 14:15	1.0	1.0			46219668001	4.800		ug/L	96		
31 114015	CCV					01-JUN-2006 14:17	1.0	1.0	4	5.000	46219668001	ND	0.20	ug/L			
32 114015	CCB					01-JUN-2006 14:19	1.0	1.0			46219668001	ND	0.20	ug/L			
33 114015	SAMPLE	187133-005		114015	Filtra	01-JUN-2006 14:21	1.0	1.0			46219668001	ND	0.20	ug/L			
34 114015	SAMPLE	187133-006		114015	Filtra	01-JUN-2006 14:23	1.0	1.0			46219668001	ND	0.20	ug/L			
35 114015	SAMPLE	187133-007		114015	Filtra	01-JUN-2006 14:26	1.0	1.0			46219668001	13 >LR	0.20	ug/L			>LR cal
36 114015	SAMPLE	187160-001		114015	Water	01-JUN-2006 14:28	1.0	1.0			46219668001	7.110		ug/L	95		
37 114015	CCV					01-JUN-2006 14:30	1.0	1.0	5	7.500	46219668001	ND	0.20	ug/L			
38 114015	CCB					01-JUN-2006 14:32	1.0	1.0			46219668001	0.09300 J	0.20	ug/L	78		
39 114015	MDLCHEC	186251-008		114015	Water	01-JUN-2006 14:36	1.0	1.0		0.1200	46219668001	13	0.40	ug/L			
40 114015	SAMPLE	187160-001		114015	Water	01-JUN-2006 14:38	2.0	1.0			46219668001	2.390		ug/L	96		
41 114015	CCV					01-JUN-2006 14:42	1.0	1.0	3	2.500	46219668001	ND	0.20	ug/L			
42 114015	CCB					01-JUN-2006 14:44	1.0	1.0									

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Stds used: 1=S3594 2=S3596 3=S3597 4=S3598 5=S3599
Flags used: >LR=overrange b=noncompliant calc=check quantitation

Analyst: _____ Date: 6/1/06

Curtis & Tompkins Laboratories Sample Preparation Summary 01-JUN-2006 13:36

Batch Number : 114015
Date Extracted: 01-JUN-2006
Extracted by : Kale Clauson
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : mL
Clean-up :

Spike #1 ID : S3594
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
186251-008		MDL Studies	Water	50	mL	50	1.000000	1		.06			HG		
187011-002		Burlington Northern Santa Fe R	Water	50	mL	50	1.000000	1					HG		
187065-006		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
187065-012		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
187065-013		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
187087-002		Weston Solutions	Filtrate	50	mL	50	1.000000	1					TAL/HG		
187087-003		Weston Solutions	Filtrate	50	mL	50	1.000000	1					TAL/HG		
187087-004		Weston Solutions	Filtrate	50	mL	50	1.000000	1					TAL/HG		
187087-005		Weston Solutions	Filtrate	50	mL	50	1.000000	1					TAL/HG		
187104-002		Weston Solutions	Filtrate	50	mL	50	1.000000	1					TAL/HG		
187104-003		Weston Solutions	Filtrate	50	mL	50	1.000000	1					TAL/HG		
187104-004		Weston Solutions	Filtrate	50	mL	50	1.000000	1					TAL/HG		
187110-006		Union Sanitary District	Water	50	mL	50	1.000000	1					HG		
187133-003		Montezuma Wetlands LLC	Filtrate	50	mL	50	1.000000	1					HG		
187133-004		Montezuma Wetlands LLC	Filtrate	50	mL	50	1.000000	1					HG		
187133-005		Montezuma Wetlands LLC	Filtrate	50	mL	50	1.000000	1					HG		
187133-006		Montezuma Wetlands LLC	Filtrate	50	mL	50	1.000000	1					HG		
187133-007		Montezuma Wetlands LLC	Filtrate	50	mL	50	1.000000	1					HG		
187160-001		Shaw E&I	Water	50	mL	50	1.000000	1					T26/HG		
QC342325	BLANK		Water	50	mL	50	1.000000	1					HG		
QC342326	BS		Water	50	mL	50	1.000000	1		2.5			HG		
QC342327	BSD		Water	50	mL	50	1.000000	1		2.5			HG		
QC342328	MS of 187133-003		Filtrate	50	mL	50	1.000000	1		2.5			HG		
QC342329	MSD of 187133-003		Filtrate	50	mL	50	1.000000	1		2.5			HG		

Prep Chemist: _____ Reviewed By: _____ Date: 6/1/06

Relinquished By: _____ Received By: _____ Date: 6/1/06

Curtis & Tompkins, Ltd.

BK 2277
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Water Digestion for Mercury

LIMS Batch #: 114015
Date Digested: 6/1/06
Digested by: KMC

Digestion Method
☒ EPA 7470A/ EPA 245.1
☐ _____

Sample # and letter		Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
186251 - 008		50	50	Y	MDL CHECK 0.112 µg/L SPIKE
187011 - 002	A				WATER
187065 - 006	H				FILTRATE (F.F.)
012	G				
013					
187087 - 002					
003					
004					
005					
187104 - 002					
003					
004					
187110 - 006	A				WATER
187133 - 003MSS					FILTRATE COMP E,F 25mL EA
004					COMP E,F 25mL EA
005	A				
006					
007					
187160 - 001	B				WATER
BLANK					
BS					
BSD					
MS 187113 - 003					COMP 25mL EA
MSD 187113 - 003					E,F

2.5 mL of spike solution was added to all spikes

	Reagent ID/ LIMS# / Time	Initials / Date
ICAL Source WS#	S3594	KMC 6/1/06
ICV / CCV WS#	S3594	
	S3596/97/98/99	
Digestion of Samples & Standards: Time ON / Temperature ON	1100 / 95°C	
Time OFF/ Temperature OFF	1200 / 95°C	
concentrated H_2SO_4	B03032	
concentrated HNO_3	C06026	
5% $KMnO_4$	K053006	
5% $K_2S_2O_8$	K_2 051606	
NaCl.hydroxylamine hydrochloride	Hy 053106	
Stannous Chloride	$SnCl_2$ 053006	
☐ filtered thru' 0.45 um syringe filter		

6/1/06
Prep Chemist / Date

Continued from page _____
Continued on page _____

6/1/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 6010B Water
As of 06/22/06

Analyte	Units	MET01	MET07	MET08 A	MET08 R	MET09 A	MET09 R
Aluminum	ug/L	33	19		42		28
Antimony	ug/L	21	3.9	3.6		4.3	
Arsenic	ug/L	120	2.8	1.0		0.80	
Barium	ug/L	2.7	0.13	0.41	0.61	1.6	
Beryllium	ug/L	0.45	0.48	0.21		0.68	
Cadmium	ug/L	2.2	0.29	0.55		1.7	
Calcium	ug/L	64	9.7		51		28
Chromium	ug/L	3.2	0.50	0.56		1.8	
Cobalt	ug/L	7.0	0.68	0.46		1.5	
Copper	ug/L	2.6	0.62	0.71		2.0	
Iron	ug/L	22	24		17		39
Lead	ug/L	71	1.9	0.57		0.46	
Magnesium	ug/L	47	16		15		95
Manganese	ug/L	2.6	0.57	0.60	1.2	1.8	
Molybdenum	ug/L	8.3	2.4	0.43		1.6	
Nickel	ug/L	15	0.74	0.92		2.0	
Potassium	ug/L	300			130		180
Selenium	ug/L	85	4.2	1.6		2.6	
Silver	ug/L	3.5	0.77	1.4		1.2	
Sodium	ug/L	100			39		70
Thallium	ug/L	200	3.5	0.93		1.6	
Vanadium	ug/L	2.4	0.57	0.42		1.5	
Zinc	ug/L	5.8	1.1	1.5	1.6	7.7	
Boron	ug/L	52		14		12	
Tin	ug/L	22		4.4		14	
Titanium	ug/L	2.1		1.0	1.3	3.5	

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 6020 Water 200.8
As of 06/22/06

Analyte	Units	MET05	MET06 A	MET06 E	MET06 H
Aluminum	ug/L	1.0	0.40		
Antimony	ug/L	0.078	0.0093		
Arsenic	ug/L	0.65		0.034	
Barium	ug/L	0.23	0.023		
Beryllium	ug/L	0.055	0.017		
Cadmium	ug/L	0.14	0.0058		
Calcium	ug/L	15	5.6		
Chromium	ug/L	0.085		0.038	
Cobalt	ug/L	0.034		0.0072	
Copper	ug/L	0.31		0.028	
Iron	ug/L	4.2			1.9
Lead	ug/L	0.24	0.013		
Magnesium	ug/L	2.1	0.73		
Manganese	ug/L	0.082		0.011	
Molybdenum	ug/L	0.062	0.0063		
Nickel	ug/L	0.16		0.029	
Potassium	ug/L	8.9	5.3		
Selenium	ug/L	0.35			0.027
Silver	ug/L	0.041	0.0079		
Sodium	ug/L	15		2.7	
Thallium	ug/L	0.073	0.030		
Vanadium	ug/L	0.15		0.026	
Zinc	ug/L	0.52		0.062	

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 7470A Water
As of 06/22/06

Analyte	Units	MET04	MET14
Mercury	ug/L	0.058	0.021

GENERAL CHEMISTRY

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	05/24/06
Units:	mg/L	Received:	05/25/06
Diln Fac:	1.000	Analyzed:	06/05/06
Batch#:	114119		

Field ID: 1065PZ1A Lab ID: 187065-001
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	590	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	590	1.0

Field ID: 1065PZ2A Lab ID: 187065-002
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	340	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	340	1.0

Field ID: 1065PZ4A Lab ID: 187065-003
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	580	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	580	1.0

Field ID: 1065MW101 Lab ID: 187065-004
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	660	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	660	1.0

Field ID: 1065MW102 Lab ID: 187065-005
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	330	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	330	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	05/24/06
Units:	mg/L	Received:	05/25/06
Diln Fac:	1.000	Analyzed:	06/05/06
Batch#:	114119		

Field ID: 231GW09 Lab ID: 187065-006
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	230	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	230	1.0

Field ID: 1221GW104 Lab ID: 187065-007
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	430	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	430	1.0

Field ID: 1213GW101 Lab ID: 187065-009
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	400	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	400	1.0

Field ID: DUP-05242006 Lab ID: 187065-011
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	390	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	390	1.0

Field ID: 1349MW100 Lab ID: 187065-012
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	910	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	910	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	05/24/06
Units:	mg/L	Received:	05/25/06
Diln Fac:	1.000	Analyzed:	06/05/06
Batch#:	114119		

Field ID: DUP0524063A Lab ID: 187065-013
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	860	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	860	1.0

Field ID: 1065PZ1B Lab ID: 187065-014
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	230	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	230	1.0

Field ID: 1065PZ5AR Lab ID: 187065-015
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	700	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	700	1.0

Field ID: 1065MW9A Lab ID: 187065-016
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	430	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	430	1.0

Field ID: DUP0524063B Lab ID: 187065-017
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	430	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	430	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	05/24/06
Units:	mg/L	Received:	05/25/06
Diln Fac:	1.000	Analyzed:	06/05/06
Batch#:	114119		

Type: BLANK Lab ID: QC342761

Analyte	Result	RL
Alkalinity, Bicarbonate	ND	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Units:	mg/L
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC342762	Batch#:	114119
Matrix:	Water	Analyzed:	06/05/06

Spiked	Result	%REC	Limits
200.0	186.9	93	90-110

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Diln Fac:	1.000
Field ID:	231GW09	Batch#:	114119
MSS Lab ID:	187065-006	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	mg/L	Analyzed:	06/05/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC342763	231.4	200.0	416.5	93	69-112		
MSD	QC342764		200.0	416.5	93	69-112	0	25

RPD= Relative Percent Difference

Analysis: **Alkalinity** Analysis Date: **06/05/06** H_2SO_4 Normality = **0.0178**

Method: **EPA 310.1** / SMWW 2320B Batch No: **114119** conc.(mg/L) Na_2CO_3 for QC = **200**

SOP#: Alkalinity_rv 6.doc Analyst: SJ

SAMPLE	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alkalinity Volume (4.5-4.2) (mL)	**Low Alkalinity** as $CaCO_3$ (mg/L)	Reporting Limit (mg/L)
187040-001	7.20	25	0.0	18.7	665.72		n/a	1.0
187040-002	7.00	25	0.0	20.7	736.92		n/a	1.0
187040-003	7.50	25	0.0	13.9	494.84		n/a	1.0
187065-001	7.60	25	0.0	16.6	590.96		n/a	1.0
187065-002	7.10	25	0.0	9.5	338.20		n/a	1.0
187065-003	7.00	25	0.0	16.3	580.28		n/a	1.0
187065-004	7.00	25	0.0	18.5	658.60		n/a	1.0
187065-005	7.40	25	0.0	9.4	334.64		n/a	1.0
187065-006	7.00	25	0.0	6.5	231.40		n/a	1.0
187065-007	6.90	25	0.0	12.1	430.76		n/a	1.0
187065-009	8.00	25	0.0	11.2	398.72		n/a	1.0
187065-011	8.10	25	0.0	11.0	391.60		n/a	1.0
187065-012	6.60	25	0.0	25.7	914.92		n/a	1.0
187065-013	6.60	25	0.0	24.2	861.52		n/a	1.0
187065-014	7.80	25	0.0	6.5	231.40		n/a	1.0
187065-015	7.80	25	0.0	19.7	701.32		n/a	1.0
187065-016	7.10	25	0.0	12.2	434.32		n/a	1.0
187065-017	7.00	25	0.0	12.2	434.32		n/a	1.0

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QC DATA	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alk Vol (mL)	**Low Alk** as $CaCO_3$ (mg/L)	RL (mg/L)	% Rec.	% RPD
MB	5.9	25	0.0	0.0	ND			1.0		
LCS	10.4	25	2.0	5.3	186.90			1.0	93	
187065-006	7.00	25	0.0	6.5	231.40		n/a	1.0		
MS	8.6	25	0.2	11.7	416.52			1.0	93	
MSD	8.5	25	0.3	11.7	416.52			1.0	93	0

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	25	80 - 120

Reviewed by/ Date: Tkm 6/6/06

Analysis: **Alkalinity** Analysis Date: 06/05/06 H_2SO_4 Normality = 0.0178

Method: **EPA 310.1** Batch No: 114119 Analyst: SJ

SAMPLE	(P)	(T-P)	Total Alkalinty as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity	Carbonate Alkalinity	Hydroxide Alkalinity
				as $CaCO_3$ (mg/L)		
187040-001	0.0	665.7	665.72	665.720	0.000	0.000
187040-002	0.0	736.9	736.92	736.920	0.000	0.000
187040-003	0.0	494.8	494.84	494.840	0.000	0.000
187065-001	0.0	591.0	590.96	590.960	0.000	0.000
187065-002	0.0	338.2	338.2	338.200	0.000	0.000
187065-003	0.0	580.3	580.28	580.280	0.000	0.000
187065-004	0.0	658.6	658.6	658.600	0.000	0.000
187065-005	0.0	334.6	334.64	334.640	0.000	0.000
187065-006	0.0	231.4	231.4	231.400	0.000	0.000
187065-007	0.0	430.8	430.76	430.760	0.000	0.000
187065-009	0.0	398.7	398.72	398.720	0.000	0.000
187065-011	0.0	391.6	391.6	391.600	0.000	0.000
187065-012	0.0	914.9	914.92	914.920	0.000	0.000
187065-013	0.0	861.5	861.52	861.520	0.000	0.000
187065-014	0.0	231.4	231.4	231.400	0.000	0.000
187065-015	0.0	701.3	701.32	701.320	0.000	0.000
187065-016	0.0	434.3	434.32	434.320	0.000	0.000
187065-017	0.0	434.3	434.32	434.320	0.000	0.000

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P: Phenolphthalein Alkalinity (using volume to pH 8.3)
T-P: Total Alkalinity minus Phenolphthalein Alkalinity

Carbonate Alkalinity = 2x the smaller of P or (T-P)
Bicarbonate Alkalinity = (T-2P) when P < (T-P)
Hydroxide Alkalinity = (2P-T) when (T-P) < P

Analysis: **Alkalinity** Analysis Date: 06/05/06 H_2SO_4 Normality = 0.0178

Method: **EPA 310.1** Batch No: 114119 Analyst: SJ

SAMPLE	**Total Alkalinty** as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity **as HCO_3^- (mg/L)**	Carbonate Alkalinity **as CO_3^{2-} (mg/L)**	Hydroxide Alkalinity **as OH^- (mg/L)**
187040-001	665.72	811.68	0.000	0.00
187040-002	736.92	898.49	0.000	0.00
187040-003	494.84	603.33	0.000	0.00
187065-001	590.96	720.53	0.000	0.00
187065-002	338.2	412.35	0.000	0.00
187065-003	580.28	707.50	0.000	0.00
187065-004	658.6	803.00	0.000	0.00
187065-005	334.64	408.01	0.000	0.00
187065-006	231.4	282.13	0.000	0.00
187065-007	430.76	525.20	0.000	0.00
187065-009	398.72	486.14	0.000	0.00
187065-011	391.6	477.46	0.000	0.00
187065-012	914.92	1115.51	0.000	0.00
187065-013	861.52	1050.41	0.000	0.00
187065-014	231.4	282.13	0.000	0.00
187065-015	701.32	855.08	0.000	0.00
187065-016	434.32	529.54	0.000	0.00
187065-017	434.32	529.54	0.000	0.00

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Alkalinity Benchbook

EPA 310.1 / SMWW 2320B

Curtis & Tompkins, Ltd.

LIMS Batch #: 114119
Matrix: water

Date: 6/5/06
Time: ~~15:00~~ 11:00

Benchbook#: **BK 2255**
Page: **61**

CAL-ph 4.0: SS#: 5749
CAL-ph 7.0: SS#: 5177
CAL-ph 10.0: SS#: 51169
Slope: 93.8
(slope limits: 92 - 102)

$CaCO_3$ Vol (mgL) Spiked: 5
$CaCO_3$ Conc (mg/L): 1000
$CaCO_3$ WS#: 83134
H_2SO_4 Normality: 0.0178
H_2SO_4 Reagent ID: 4128106

	Sample # / Letter	Sample Vol. Titrated (mL)	Initial pH (S.U.)	H_2SO_4 Vol (mL) to pH 8.3	H_2SO_4 Vol (mL) to pH 4.5 *	Low Alk TotalVol (mL)	Comments
1	MB	25	5.9	—	<0.05		
	LCS		~~10.0~~ 10.4	2	5.25		
	187090-1 G		~~7.2~~ 7.2	—	18.7		
	-2		~~7.0~~ 7.0	—	20.7		
	-3		~~7.5~~ 7.5	—	13.9		
5	187065-1 I		~~7.6~~ 7.6	—	16.6		
	-2 F		7.1	—	9.5		
	-3		7.0	—	16.3		
	-4		7.0	—	18.5		
10	-5 I		7.4	—	9.4		
	-6		7.0	—	6.5		
	-7 B		6.9	—	12.1		
	-9 H		8.0	—	11.2		
	-11		8.1	—	11		
15	-12		6.6	—	25.7		
	-13		6.6	—	24.2		
	-14 I		7.8	—	6.5		
	-15 F		~~7.8~~ 7.8	—	19.7		
	-16		7.1	—	12.2		
20	-17		7.0	—	~~8.0~~ 12.2		
	MS 187065-6 I		8.6	0.2	11.7		
	MSD -6		8.5	0.3	11.7		

* If Acid Vol to 4.5 is < 2.0mL, redo using 100mL sample volume. If still < 2.0mL, go on to Low Alkalinity.

6/5/06
Analyst / Date

6/6/06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 114119
Date Started: 05-JUN-2006
Batched by : Stephanie Jim

Analysis : ALKALINITY
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
187040-001			Tetra Tech EC, INC	Water	ALKALINITY	06-JUN-2006
187040-002			Tetra Tech EC, INC	Water	ALKALINITY	06-JUN-2006
187040-003			Tetra Tech EC, INC	Water	ALKALINITY	06-JUN-2006
187065-001			Treadwell & Rollo	Water	ALKALINITY	07-JUN-2006
187065-002			Treadwell & Rollo	Water	ALKALINITY	07-JUN-2006
187065-003			Treadwell & Rollo	Water	ALKALINITY	07-JUN-2006
187065-004			Treadwell & Rollo	Water	ALKALINITY	07-JUN-2006
187065-005			Treadwell & Rollo	Water	ALKALINITY	07-JUN-2006
187065-006			Treadwell & Rollo	Water	ALKALINITY	07-JUN-2006
187065-007			Treadwell & Rollo	Water	ALKALINITY	07-JUN-2006
187065-009			Treadwell & Rollo	Water	ALKALINITY	07-JUN-2006
187065-011			Treadwell & Rollo	Water	ALKALINITY	07-JUN-2006
187065-012			Treadwell & Rollo	Water	ALKALINITY	07-JUN-2006
187065-013			Treadwell & Rollo	Water	ALKALINITY	07-JUN-2006
187065-014			Treadwell & Rollo	Water	ALKALINITY	07-JUN-2006
187065-015			Treadwell & Rollo	Water	ALKALINITY	07-JUN-2006
187065-016			Treadwell & Rollo	Water	ALKALINITY	07-JUN-2006
187065-017			Treadwell & Rollo	Water	ALKALINITY	07-JUN-2006
QC342761	BLANK			Water	ALKALINITY	
QC342762	LCS			Water	ALKALINITY	
QC342763	MS	of 187065-006		Water	ALKALINITY	
QC342764	MSD	of 187065-006		Water	ALKALINITY	

Curtis & Tompkins, Ltd.

Chloride

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Batch#:	113849
Matrix:	Water	Received:	05/25/06
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Diln Fac	Sampled	Analyzed
1065PZ1A	SAMPLE	187065-001	75	5.0	25.00	05/24/06 12:12	05/26/06 02:46
1065PZ2A	SAMPLE	187065-002	59	2.0	10.00	05/24/06 13:05	05/26/06 03:04
1065PZ4A	SAMPLE	187065-003	68	5.0	25.00	05/24/06 09:40	05/26/06 03:22
1065MW101	SAMPLE	187065-004	44	5.0	25.00	05/24/06 10:30	05/26/06 03:41
1065MW102	SAMPLE	187065-005	66	5.0	25.00	05/24/06 11:25	05/26/06 03:59
231GW09	SAMPLE	187065-006	41	2.0	10.00	05/24/06 09:45	05/26/06 04:18
1221GW104	SAMPLE	187065-007	58	5.0	25.00	05/24/06 11:05	05/26/06 04:36
1213GW101	SAMPLE	187065-009	310	5.0	25.00	05/24/06 13:30	05/26/06 06:08
DUP-05242006	SAMPLE	187065-011	320	5.0	25.00	05/24/06	05/26/06 06:26
1349MW100	SAMPLE	187065-012	850	20	100.0	05/24/06 13:00	05/25/06 16:38
DUP0524063A	SAMPLE	187065-013	830	20	100.0	05/24/06 13:05	05/26/06 06:45
1065PZ1B	SAMPLE	187065-014	98	2.0	10.00	05/24/06 10:30	05/26/06 07:03
1065PZ5AR	SAMPLE	187065-015	64	5.0	25.00	05/24/06 11:55	05/26/06 07:22
1065MW9A	SAMPLE	187065-016	170	5.0	25.00	05/24/06 15:00	05/26/06 07:40
DUP0524063B	SAMPLE	187065-017	170	5.0	25.00	05/24/06 15:05	05/26/06 07:58
	BLANK	QC341658	ND	0.20	1.000		05/25/06 12:16

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Fluoride

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Diln Fac:	1.000
Matrix:	Water	Batch#:	113849
Units:	mg/L	Received:	05/25/06

Field ID	Type	Lab ID	Result	RL	Sampled	Analyzed
1065PZ1A	SAMPLE	187065-001	0.20	0.10	05/24/06 12:12	05/25/06 17:52
1065PZ2A	SAMPLE	187065-002	0.26	0.10	05/24/06 13:05	05/25/06 18:10
1065PZ4A	SAMPLE	187065-003	0.16	0.10	05/24/06 09:40	05/25/06 18:28
1065MW101	SAMPLE	187065-004	0.27	0.10	05/24/06 10:30	05/25/06 18:47
1065MW102	SAMPLE	187065-005	0.54	0.10	05/24/06 11:25	05/25/06 20:19
231GW09	SAMPLE	187065-006	ND	0.10	05/24/06 09:45	05/25/06 20:37
1221GW104	SAMPLE	187065-007	ND	0.10	05/24/06 11:05	05/25/06 20:56
1213GW101	SAMPLE	187065-009	0.10	0.10	05/24/06 13:30	05/25/06 21:14
DUP-05242006	SAMPLE	187065-011	0.11	0.10	05/24/06	05/25/06 21:33
1349MW100	SAMPLE	187065-012	0.23	0.10	05/24/06 13:00	05/25/06 23:05
DUP0524063A	SAMPLE	187065-013	0.23	0.10	05/24/06 13:05	05/26/06 00:55
1065PZ1B	SAMPLE	187065-014	ND	0.10	05/24/06 10:30	05/25/06 21:51
1065PZ5AR	SAMPLE	187065-015	0.25	0.10	05/24/06 11:55	05/25/06 22:09
1065MW9A	SAMPLE	187065-016	0.12	0.10	05/24/06 15:00	05/25/06 22:28
DUP0524063B	SAMPLE	187065-017	0.12	0.10	05/24/06 15:05	05/25/06 22:46
	BLANK	QC341658	ND	0.10		05/25/06 12:16

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrate Nitrogen

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Batch#:	113849
Matrix:	Water	Received:	05/25/06
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Diln Fac	Sampled	Analyzed
1065PZ1A	SAMPLE	187065-001	ND	0.05	1.000	05/24/06 12:12	05/25/06 17:52
1065PZ2A	SAMPLE	187065-002	ND	0.05	1.000	05/24/06 13:05	05/25/06 18:10
1065PZ4A	SAMPLE	187065-003	ND	0.05	1.000	05/24/06 09:40	05/25/06 18:28
1065MW101	SAMPLE	187065-004	ND	0.05	1.000	05/24/06 10:30	05/25/06 18:47
1065MW102	SAMPLE	187065-005	ND	0.05	1.000	05/24/06 11:25	05/25/06 20:19
231GW09	SAMPLE	187065-006	11	0.50	10.00	05/24/06 09:45	05/26/06 04:18
1221GW104	SAMPLE	187065-007	ND	0.05	1.000	05/24/06 11:05	05/25/06 20:56
1213GW101	SAMPLE	187065-009	1.8	0.05	1.000	05/24/06 13:30	05/25/06 21:14
DUP-05242006	SAMPLE	187065-011	1.4	0.05	1.000	05/24/06	05/25/06 21:33
1349MW100	SAMPLE	187065-012	ND	0.05	1.000	05/24/06 13:00	05/25/06 23:05
DUP0524063A	SAMPLE	187065-013	ND	0.05	1.000	05/24/06 13:05	05/26/06 00:55
1065PZ1B	SAMPLE	187065-014	0.42	0.05	1.000	05/24/06 10:30	05/25/06 21:51
1065PZ5AR	SAMPLE	187065-015	ND	0.05	1.000	05/24/06 11:55	05/25/06 22:09
1065MW9A	SAMPLE	187065-016	ND	0.05	1.000	05/24/06 15:00	05/25/06 22:28
DUP0524063B	SAMPLE	187065-017	ND	0.05	1.000	05/24/06 15:05	05/25/06 22:46
	BLANK	QC341658	ND	0.05	1.000		05/25/06 12:16

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrite Nitrogen

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Batch#:	113849
Matrix:	Water	Received:	05/25/06
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Diln Fac	Sampled	Analyzed
1065PZ1A	SAMPLE	187065-001	ND	0.05	1.000	05/24/06 12:12	05/25/06 17:52
1065PZ2A	SAMPLE	187065-002	ND	0.05	1.000	05/24/06 13:05	05/25/06 18:10
1065PZ4A	SAMPLE	187065-003	ND	0.05	1.000	05/24/06 09:40	05/25/06 18:28
1065MW101	SAMPLE	187065-004	ND	0.05	1.000	05/24/06 10:30	05/25/06 18:47
1065MW102	SAMPLE	187065-005	ND	0.05	1.000	05/24/06 11:25	05/25/06 20:19
231GW09	SAMPLE	187065-006	ND	0.05	1.000	05/24/06 09:45	05/25/06 20:37
1221GW104	SAMPLE	187065-007	ND	0.05	1.000	05/24/06 11:05	05/25/06 20:56
1213GW101	SAMPLE	187065-009	ND	0.05	1.000	05/24/06 13:30	05/25/06 21:14
DUP-05242006	SAMPLE	187065-011	ND	0.05	1.000	05/24/06	05/25/06 21:33
1349MW100	SAMPLE	187065-012	ND	0.10	2.000	05/24/06 13:00	05/26/06 01:32
DUP0524063A	SAMPLE	187065-013	ND	0.10	2.000	05/24/06 13:05	05/26/06 02:09
1065PZ1B	SAMPLE	187065-014	ND	0.05	1.000	05/24/06 10:30	05/25/06 21:51
1065PZ5AR	SAMPLE	187065-015	ND	0.05	1.000	05/24/06 11:55	05/25/06 22:09
1065MW9A	SAMPLE	187065-016	ND	0.05	1.000	05/24/06 15:00	05/25/06 22:28
DUP0524063B	SAMPLE	187065-017	ND	0.05	1.000	05/24/06 15:05	05/25/06 22:46
	BLANK	QC341658	ND	0.05	1.000		05/25/06 12:16

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Sulfate

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Batch#:	113849
Matrix:	Water	Received:	05/25/06
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Diln Fac	Sampled	Analyzed
1065PZ1A	SAMPLE	187065-001	0.88	0.50	1.000	05/24/06 12:12	05/25/06 17:52
1065PZ2A	SAMPLE	187065-002	5.5	0.50	1.000	05/24/06 13:05	05/25/06 18:10
1065PZ4A	SAMPLE	187065-003	4.7	0.50	1.000	05/24/06 09:40	05/25/06 18:28
1065MW101	SAMPLE	187065-004	ND	0.50	1.000	05/24/06 10:30	05/25/06 18:47
1065MW102	SAMPLE	187065-005	11	0.50	1.000	05/24/06 11:25	05/25/06 20:19
231GW09	SAMPLE	187065-006	68	5.0	10.00	05/24/06 09:45	05/26/06 04:18
1221GW104	SAMPLE	187065-007	73	13	25.00	05/24/06 11:05	05/26/06 04:36
1213GW101	SAMPLE	187065-009	140	13	25.00	05/24/06 13:30	05/26/06 06:08
DUP-05242006	SAMPLE	187065-011	130	13	25.00	05/24/06	05/26/06 06:26
1349MW100	SAMPLE	187065-012	60	1.0	2.000	05/24/06 13:00	05/26/06 01:32
DUP0524063A	SAMPLE	187065-013	65	1.0	2.000	05/24/06 13:05	05/26/06 02:09
1065PZ1B	SAMPLE	187065-014	43	0.50	1.000	05/24/06 10:30	05/25/06 21:51
1065PZ5AR	SAMPLE	187065-015	0.60	0.50	1.000	05/24/06 11:55	05/25/06 22:09
1065MW9A	SAMPLE	187065-016	21	0.50	1.000	05/24/06 15:00	05/25/06 22:28
DUP0524063B	SAMPLE	187065-017	21	0.50	1.000	05/24/06 15:05	05/25/06 22:46
	BLANK	QC341658	ND	0.50	1.000		05/25/06 12:16

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chloride

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Units:	mg/L
Field ID:	1065MW102	Batch#:	113849
MSS Lab ID:	187065-005	Sampled:	05/24/06 11:25
Matrix:	Water	Received:	05/25/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed
BS	QC341659		4.000	3.983	100	80-120			1.000	05/25/06 12:35
BSD	QC341660		4.000	3.938	98	80-120	1	20	1.000	05/25/06 12:53
MS	QC341661	66.29	50.00	115.5	98	80-120			25.00	05/25/06 17:15
MSD	QC341662		50.00	113.1	94	80-120	2	25	25.00	05/25/06 17:33

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Fluoride

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Units:	mg/L
Field ID:	1065MW102	Batch#:	113849
MSS Lab ID:	187065-005	Sampled:	05/24/06 11:25
Matrix:	Water	Received:	05/25/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed
BS	QC341659		2.000	1.989	99	80-120			1.000	05/25/06 12:35
BSD	QC341660		2.000	1.910	95	80-120	4	20	1.000	05/25/06 12:53
MS	QC341661	0.5435	25.00	23.90	93	77-120			25.00	05/25/06 17:15
MSD	QC341662		25.00	23.64	92	77-120	1	20	25.00	05/25/06 17:33

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrate Nitrogen

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Units:	mg/L
Field ID:	1065MW102	Batch#:	113849
MSS Lab ID:	187065-005	Sampled:	05/24/06 11:25
Matrix:	Water	Received:	05/25/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed
BS	QC341659		1.000	0.9574	96	80-120			1.000	05/25/06 12:35
BSD	QC341660		1.000	0.9334	93	80-120	3	20	1.000	05/25/06 12:53
MS	QC341661	<0.008826	12.50	11.71	94	80-120			25.00	05/25/06 17:15
MSD	QC341662		12.50	12.00	96	80-120	2	25	25.00	05/25/06 17:33

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrite Nitrogen

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Units:	mg/L
Field ID:	1065MW102	Batch#:	113849
MSS Lab ID:	187065-005	Sampled:	05/24/06 11:25
Matrix:	Water	Received:	05/25/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed
BS	QC341659		1.000	1.031	103	80-120			1.000	05/25/06 12:35
BSD	QC341660		1.000	1.052	105	80-120	2	20	1.000	05/25/06 12:53
MS	QC341661	<0.01206	12.50	12.64	101	80-120			25.00	05/25/06 17:15
MSD	QC341662		12.50	12.66	101	80-120	0	25	25.00	05/25/06 17:33

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Sulfate

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Units:	mg/L
Field ID:	1065MW102	Batch#:	113849
MSS Lab ID:	187065-005	Sampled:	05/24/06 11:25
Matrix:	Water	Received:	05/25/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed
BS	QC341659		10.00	10.43	104	80-120			1.000	05/25/06 12:35
BSD	QC341660		10.00	10.07	101	80-120	3	20	1.000	05/25/06 12:53
MS	QC341661	10.78	125.0	138.1	102	80-120			25.00	05/25/06 17:15
MSD	QC341662		125.0	139.4	103	80-120	1	25	25.00	05/25/06 17:33

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187065 IC Water: EPA 300.0

Inst : IC03
Calnum : 626087283001
Units : mg/L

Date : 01-MAR-2006 15:02
X Axis : A

Reviewer: MCH
Inj Vol : 25 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	060_2.000	626087283002	L1	01-MAR-2006 15:02	S1888 (500X)
L2	060_3.000	626087283003	L2	01-MAR-2006 15:20	S1888 (100X)
L3	060_4.000	626087283004	L3	01-MAR-2006 15:39	S1888 (25X)
L4	060_5.000	626087283005	L4	01-MAR-2006 15:57	S1888 (10X)
L5	060_6.000	626087283006	L5	01-MAR-2006 16:15	S1888 (5X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Fluoride	0.1716	0.1970	0.2011	0.2058	0.2193	QORG		0.19367	0.002557	0.1990	1.000	0.990	
Chloride	0.2004	0.1474	0.1573	0.1617	0.1760	QORG		0.14901	0.001346	0.1686	1.000	0.990	
Nitrogen, Nitrite	0.2691	0.2776	0.3037	0.3039	0.3170	QORG		0.29330	0.004711	0.2943	1.000	0.990	
Nitrogen, Nitrate	0.3560	0.3834	0.3978	0.3870	0.4128	QORG		0.37136	0.008191	0.3874	1.000	0.990	
Sulfate	0.1066	0.1006	0.1099	0.1118	0.1203	QORG		0.10436	3.187E-4	0.1099	1.000	0.990	

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Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating); QORG=Quadratic regression forced through origin

626087283001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 187065 IC Water
EPA 300.0

Inst : IC03
Calnum : 626087283001 Cal Date: 01-MAR-2006

ICV 626087283007 (060_7.000 01-MAR-2006) stds: S1085 (5X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Fluoride	0.1990	0.1858	1.000	0.9473	mg/L	-5	10	
Chloride	0.1686	0.1455	2.000	1.920	mg/L	-4	10	
Nitrogen, Nitrite	0.2943	0.2873	0.5000	0.4860	mg/L	-3	10	
Nitrogen, Nitrate	0.3874	0.3456	0.5000	0.4606	mg/L	-8	10	
Sulfate	0.1099	0.1070	5.000	5.047	mg/L	1	10	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 300.0

Inst : IC03
Calnum : 626087283001 Date : 01-MAR-2006 15:02 Inj Vol: 25 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	060_2.000	626087283002	L1	01-MAR-2006 15:02	S1888 (500X)
L2	060_3.000	626087283003	L2	01-MAR-2006 15:20	S1888 (100X)
L3	060_4.000	626087283004	L3	01-MAR-2006 15:39	S1888 (25X)
L4	060_5.000	626087283005	L4	01-MAR-2006 15:57	S1888 (10X)
L5	060_6.000	626087283006	L5	01-MAR-2006 16:15	S1888 (5X)

MRS 3/2/06

Analyte	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MnR^2	Flq
Fluoride	0.1716	0.1970	0.2011	0.2058	0.2193	QORG	A		0.19367	0.002557	mg/L	0.1990	1.000	0.990	
Chloride	0.2004	0.1474	0.1573	0.1617	0.1760	QORG	A		0.14901	0.001346	mg/L	0.1686	1.000	0.990	
Nitrogen, Nitrite	0.2691	0.2776	0.3037	0.3039	0.3170	QORG	A		0.29330	0.004711	mg/L	0.2943	1.000	0.990	
Bromide	0.0471	0.0627	0.0663	0.0635	0.0673	QORG	A		0.06168	2.750E-4	mg/L	0.0614	1.000	0.990	
Nitrogen, Nitrate	0.3560	0.3834	0.3978	0.3870	0.4128	QORG	A		0.37136	0.008191	mg/L	0.3874	1.000	0.990	
Orthophosphate (as P)	0.0986	0.1086	0.1241	0.1248	0.1349	QORG	A		0.11651	9.164E-4	mg/L	0.1182	1.000	0.990	NA
Sulfate	0.1066	0.1006	0.1099	0.1118	0.1203	QORG	A		0.10436	3.187E-4	mg/L	0.1099	1.000	0.990	

MRS 3/2/06

426

QORG=Quadratic regression forced through origin
Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

626087283001

Sequence: 060
Operator: ic_analyst

Printed: 3/2/2006 11:25:27 AM

Title: Anions
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006
Timebase: IC3_DX120
#Samples: 8

Created: 8/1/2003 11:03:14 AM by ic_analyst
Last Update: 3/1/2006 4:23:55 PM by ic_analyst

No.	*Batch	Name	Comment	Dil. Factor	Program	Status	Inj. Date/Time
1	CAL-060	IB		1.0000	IC03-7AN	Finished	3/1/2006 2:43:54 PM
2	CAL-060	ICAL, L1,S1888,500		1.0000	IC03-7AN	Finished	3/1/2006 3:02:19 PM
3	CAL-060	ICAL, L2,S1888,100		1.0000	IC03-7AN	Finished	3/1/2006 3:20:44 PM
4	CAL-060	ICAL, L3,S1888,25		1.0000	IC03-7AN	Finished	3/1/2006 3:39:08 PM
5	CAL-060	ICAL, L4,S1888,10		1.0000	IC03-7AN	Finished	3/1/2006 3:57:33 PM
6	CAL-060	ICAL, L5,S1888,5		1.0000	IC03-7AN	Finished	3/1/2006 4:15:58 PM
7	CAL-060	ICV,S1085,5		1.0000	IC03-7AN	Finished	3/1/2006 4:34:23 PM
8	CAL-060	ICB		1.0000	IC03-7AN	Finished	3/1/2006 4:52:47 PM

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Sequence: 060
Operator: ic_analyst
Printed: 3/2/2006 11:25:27 AM

Title: Anions
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006
Timebase: IC3_DX120
#Samples: 8

Created: 8/1/2003 11:03:14 AM by ic_analyst
Last Update: 3/1/2006 4:23:55 PM by ic_analyst

No.	*Batch	Name	Comment	Method	Type	Inj. Vol.	*operator	*PDF
1	CAL-060	IB		IC03-7AN_CAL	Unknown	25.0	MRS	1
2	CAL-060	ICAL, L1,S1888,500		IC03-7AN_CAL	Standard	25.0	MRS	1
3	CAL-060	ICAL, L2,S1888,100		IC03-7AN_CAL	Standard	25.0	MRS	1
4	CAL-060	ICAL, L3,S1888,25		IC03-7AN_CAL	Standard	25.0	MRS	1
5	CAL-060	ICAL, L4,S1888,10		IC03-7AN_CAL	Standard	25.0	MRS	1
6	CAL-060	ICAL, L5,S1888,5		IC03-7AN_CAL	Standard	25.0	MRS	1
7	CAL-060	ICV,S1085,5		IC03-7AN_CAL	Unknown	25.0	MRS	1
8	CAL-060	ICB		IC03-7AN_CAL	Unknown	25.0	MRS	1

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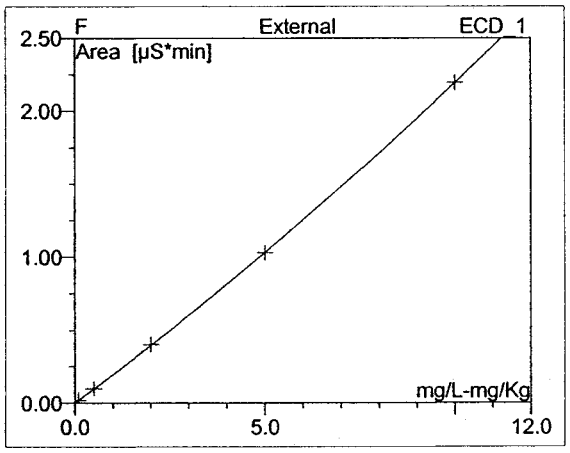
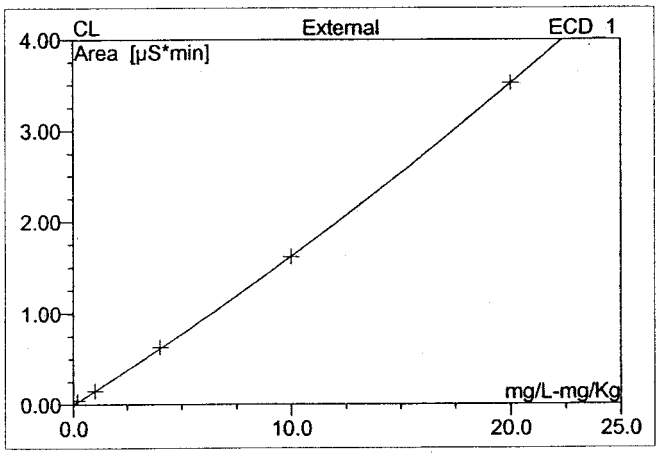
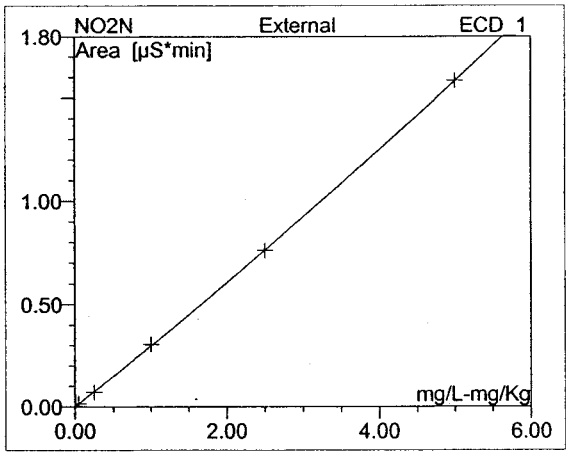
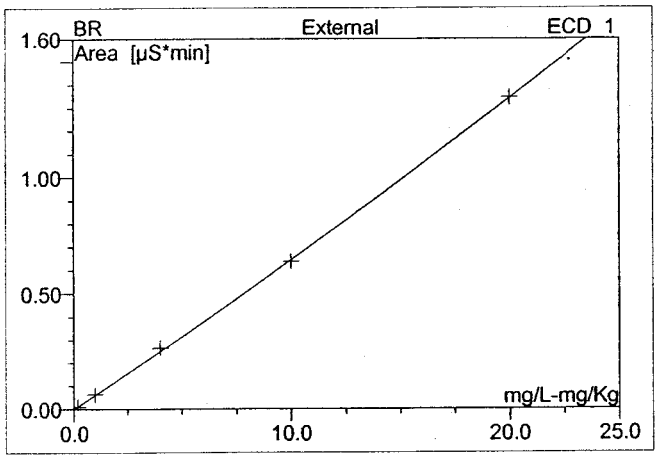
IC03 Calibration Batch Report

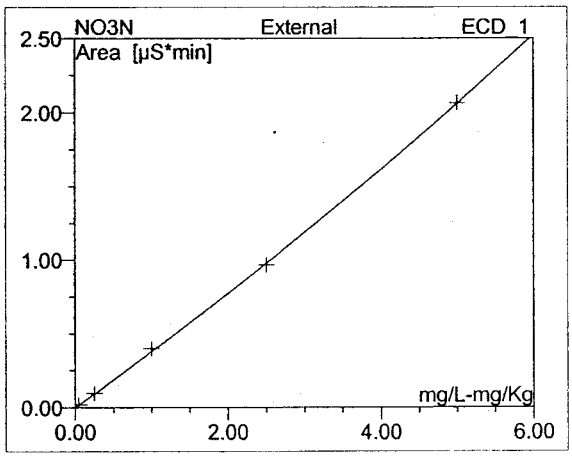
Sequence:	060	Inj. Vol.:	25.0
Program:	IC03-7AN	Operator:	PC_NEWIC
Inj. Date/Time:	03/01/06 15:39	Run Time:	16.00

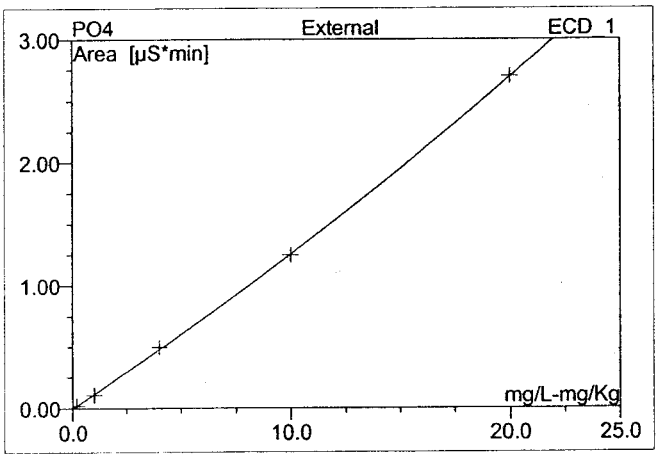




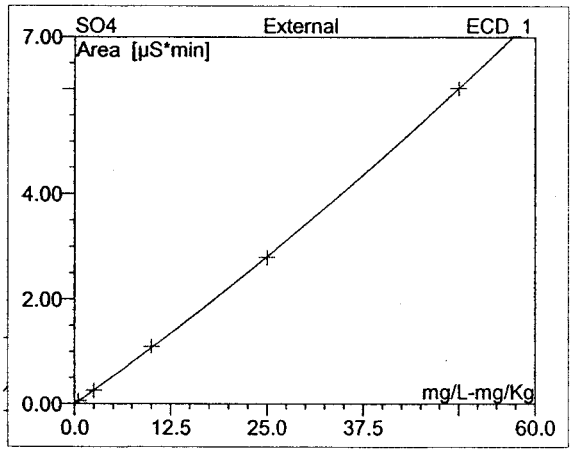








Sequence:	060	*Inj. Vol.:*	25.0
Program:	IC03-7AN	*Operator:*	n.a.
Inj. Date/Time:	03/01/06 15:39	*Run Time:*	16.00



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	2.870	F	Quad	5	0.000000	0.193669	0.002557	99.951556
2	4.217	CL	Quad	5	0.000000	0.149009	0.001346	99.909274
3	5.010	NO2N	Quad	5	0.000000	0.293301	0.004711	99.980499
4	6.363	BR	Quad	5	0.000000	0.061677	0.000275	99.961186
5	7.183	NO3N	Quad	5	0.000000	0.371363	0.008191	99.950755
6	9.350	PO4	Quad	5	0.000000	0.116513	0.000916	99.934448
7	11.167	SO4	Quad	5	0.000000	0.104363	0.000319	99.936780
AVERAGE:					0.000000	0.184271	0.002616	99.946357

No.	Name	Area µS*min F ECD_1	Area µS*min CL ECD_1	Area µS*min NO2N ECD_1	Area µS*min BR ECD_1	Area µS*min NO3N ECD_1	Area µS*min PO4 ECD_1	Area µS*min SO4 ECD_1
2	ICAL, L1,S18	0.017161	0.040074	0.013455	0.009416	0.017801	0.019729	0.053320
3	ICAL, L2,S18	0.098503	0.147367	0.069403	0.062700	0.095842	0.108648	0.251558
4	ICAL, L3,S18	0.402286	0.629116	0.303748	0.265105	0.397785	0.496547	1.098657
5	ICAL, L4,S18	1.029135	1.617474	0.759872	0.635291	0.967493	1.248459	2.795566
6	ICAL, L5,S18	2.192959	3.519967	1.584757	1.345233	2.063887	2.698316	6.017213

No.	Name	Height µS F ECD_1	Height µS CL ECD_1	Height µS NO2N ECD_1	Height µS BR ECD_1	Height µS NO3N ECD_1	Height µS PO4 ECD_1	Height µS SO4 ECD_1
2	ICAL, L1,S18	0.119928	0.332400	0.084748	0.057026	0.074652	0.061912	0.150120
3	ICAL, L2,S18	0.624736	1.151678	0.427428	0.312212	0.389908	0.332100	0.786078
4	ICAL, L3,S18	2.934282	5.019222	1.815278	1.334402	1.670152	1.537158	3.389914
5	ICAL, L4,S18	7.925782	12.944296	4.498282	3.261344	4.151488	4.029644	8.663126
6	ICAL, L5,S18	18.187422	28.959684	9.537670	7.026382	9.031478	9.108810	19.245860

No.	Name	Amount mg/L-mg/Kg F ECD_1	Amount mg/L-mg/Kg CL ECD_1	Amount mg/L-mg/Kg NO2N ECD_1	Amount mg/L-mg/Kg BR ECD_1	Amount mg/L-mg/Kg NO3N ECD_1	Amount mg/L-mg/Kg PO4 ECD_1	Amount mg/L-mg/Kg SO4 ECD_1
2	ICAL, L1,S18	0.088509	0.268287	0.045841	0.152565	0.047883	0.169101	0.510110
3	ICAL, L2,S18	0.505245	0.980298	0.235735	1.012006	0.256628	0.925752	2.392929
4	ICAL, L3,S18	2.023146	4.072203	1.018944	4.218898	1.046971	4.127700	10.208976
5	ICAL, L4,S18	4.985728	9.958921	2.491093	9.866203	2.470614	9.938275	24.894346
6	ICAL, L5,S18	10.002414	20.006659	5.001430	20.023174	5.005056	20.009590	50.016725

Title: IC03-7AN_CAL

Datasource:	DGLD4X01_local	Created:	10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Location:	IC3_DX120\IC03-ANIONS-2006\125.SEQ	Last Update:	5/5/2006 6:10:33 PM by ic_analyst

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Inhibit Integration	On	ECD_1
2	2.250	Sensitivity	0.001 "[Signal]"	ECD_1
3	2.250	Minimum Area	0.001 "[Signal]*min"	ECD_1
4	2.250	Peak Slice	0.50 s	ECD_1
5	2.500	Inhibit Integration	Off	ECD_1

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Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\125.SEQ

Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 5/5/2006 6:10:33 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Amount ICAL, L1,S1888,500	Amount ICAL, L2,S1888,100
1	F	2.844 min	5.000 RG	External	Area	Quad	Auto		0.100000	0.500000
2	CL	4.144 min	5.000 RG	External	Area	Quad	Auto		0.200000	1.000000
3	NO2N	4.924 min	5.000 RG	External	Area	Quad	Auto		0.050000	0.250000
4	BR	6.271 min	5.000 RG	External	Area	Quad	Auto		0.200000	1.000000
5	NO3N	7.088 min	10.000 RG	External	Area	Quad	Auto		0.050000	0.250000
6	*PO4*	*8.891 min*	*10.000 RG*	*External*	*Area*	*Quad*	*Auto*		*0.200000*	*1.000000*
7	SO4	10.551 min	10.000 RG	External	Area	Quad	Auto		0.500000	2.500000

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\125.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 5/5/2006 6:10:33 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Amount ICAL, L3,S1888,25	Amount ICAL, L4,S1888,10	Amount ICAL, L5,S1888,5	Comment
1	F	2.844 min	2.000000	5.000000	10.000000	
2	CL	4.144 min	4.000000	10.000000	20.000000	
3	NO2N	4.924 min	1.000000	2.500000	5.000000	
4	BR	6.271 min	4.000000	10.000000	20.000000	
5	NO3N	7.088 min	1.000000	2.500000	5.000000	
6	*PO4*	*8.891 min*	*4.000000*	*10.000000*	*20.000000*	
7	SO4	10.551 min	10.000000	25.000000	50.000000	

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\125.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 5/5/2006 6:10:33 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Resp.Fact.	Amount ICAL, L1,S1888,500	Amount ICAL, L2,S1888,100	Amount ICAL, L3,S1888,25	Amount ICAL, L4,S1888,10
1	F	2.844 min	1.000000	0.100000	0.500000	2.000000	5.000000
2	CL	4.144 min	1.000000	0.200000	1.000000	4.000000	10.000000
3	NO2N	4.924 min	1.000000	0.050000	0.250000	1.000000	2.500000
4	BR	6.271 min	1.000000	0.200000	1.000000	4.000000	10.000000
5	NO3N	7.088 min	1.000000	0.050000	0.250000	1.000000	2.500000
6	*PO4*	*8.891 min*	*1.000000*	*0.200000*	*1.000000*	*4.000000*	*10.000000*
7	SO4	10.551 min	1.000000	0.500000	2.500000	10.000000	25.000000

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\125.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 5/5/2006 6:10:33 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Amount ICAL, L5,S1888,5	Comment
1	F	2.844 min	10.000000	
2	CL	4.144 min	20.000000	
3	NO2N	4.924 min	5.000000	
4	BR	6.271 min	20.000000	
5	NO3N	7.088 min	5.000000	
6	*PO4*	*8.891 min*	*20.000000*	
7	SO4	10.551 min	50.000000	

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Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\125.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 5/5/2006 6:10:33 PM by ic_analyst

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

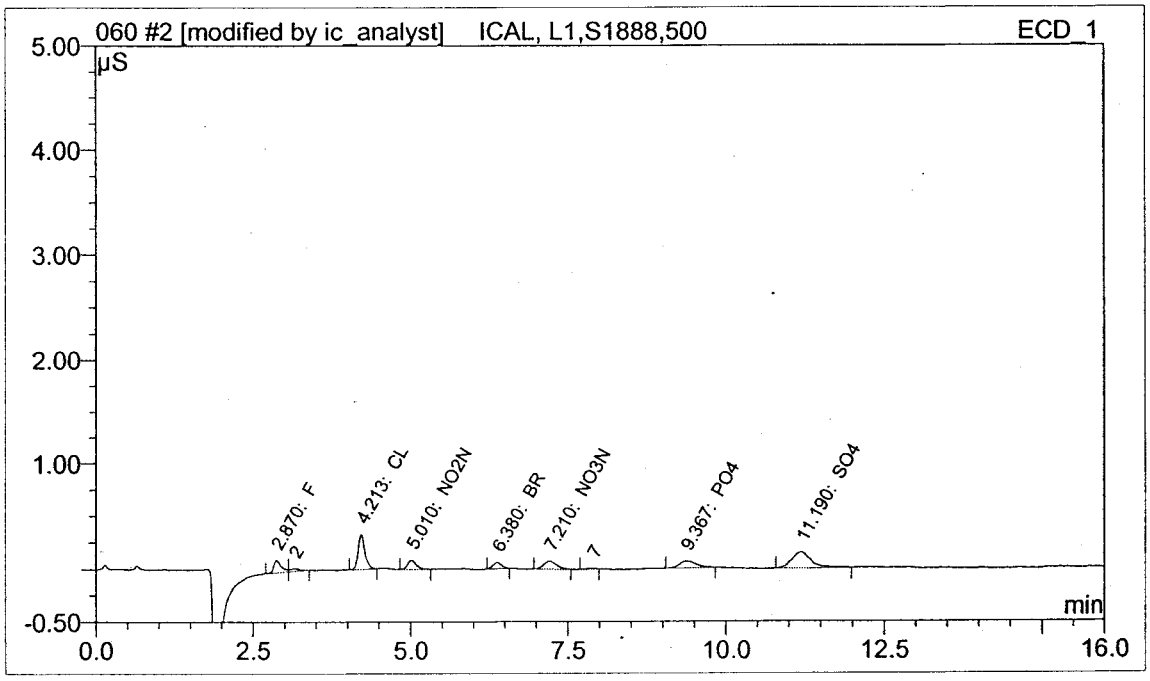
No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time	Calib. Comment
1	☒	ICAL, L1,S1888,500	2	179	25.0	1.0000	1.0000	1.0000	3/1/2006 3:02:19 PM	Ok
2	☒	ICAL, L2,S1888,100	3	179	25.0	1.0000	1.0000	1.0000	3/1/2006 3:20:44 PM	Ok
3	☒	ICAL, L3,S1888,25	4	180	25.0	1.0000	1.0000	1.0000	3/1/2006 3:39:08 PM	Ok
4	☒	ICAL, L4,S1888,10	5	181	25.0	1.0000	1.0000	1.0000	3/1/2006 3:57:33 PM	Ok
5	☒	ICAL, L5,S1888,5	6	182	25.0	1.0000	1.0000	1.0000	3/1/2006 4:15:58 PM	Ok

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L1,S1888,500	**Sample No.:**	2
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:02 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.017161	0.0885	0.0885	
3	CL	4.213	0.040074	0.2683	0.2683	
4	NO2N	5.010	0.013455	0.0458	0.0458	
5	BR	6.380	0.009416	0.1526	0.1526	
6	NO3N	7.210	0.017801	0.0479	0.0479	
8	PO4	9.367	0.019729	0.1691	0.1691	
9	SO4	11.190	0.053320	0.5101	0.5101	



ANALYZED BY: _____

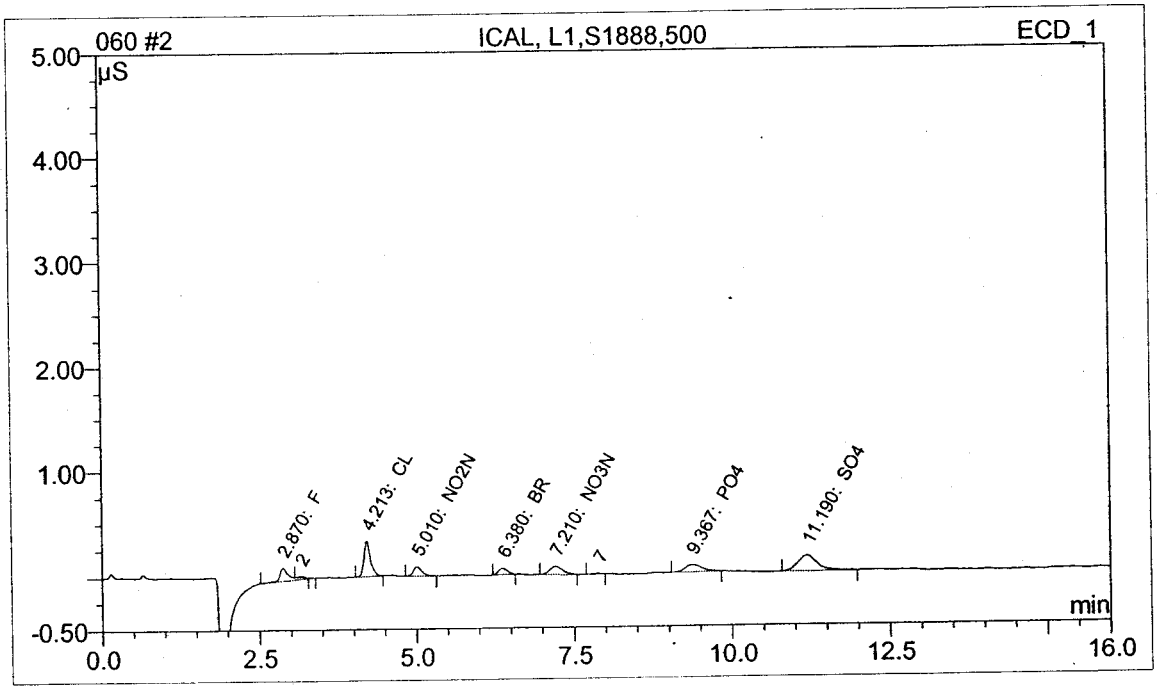
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L1,S1888,500	**Sample No.:**	2
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:02 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.023606	0.1216	0.1216	
3	CL	4.213	0.040074	0.2683	0.2683	
4	NO2N	5.010	0.013455	0.0458	0.0458	
5	BR	6.380	0.009416	0.1526	0.1526	
6	NO3N	7.210	0.017801	0.0479	0.0479	
8	PO4	9.367	0.019729	0.1691	0.1691	
9	SO4	11.190	0.053320	0.5101	0.5101	



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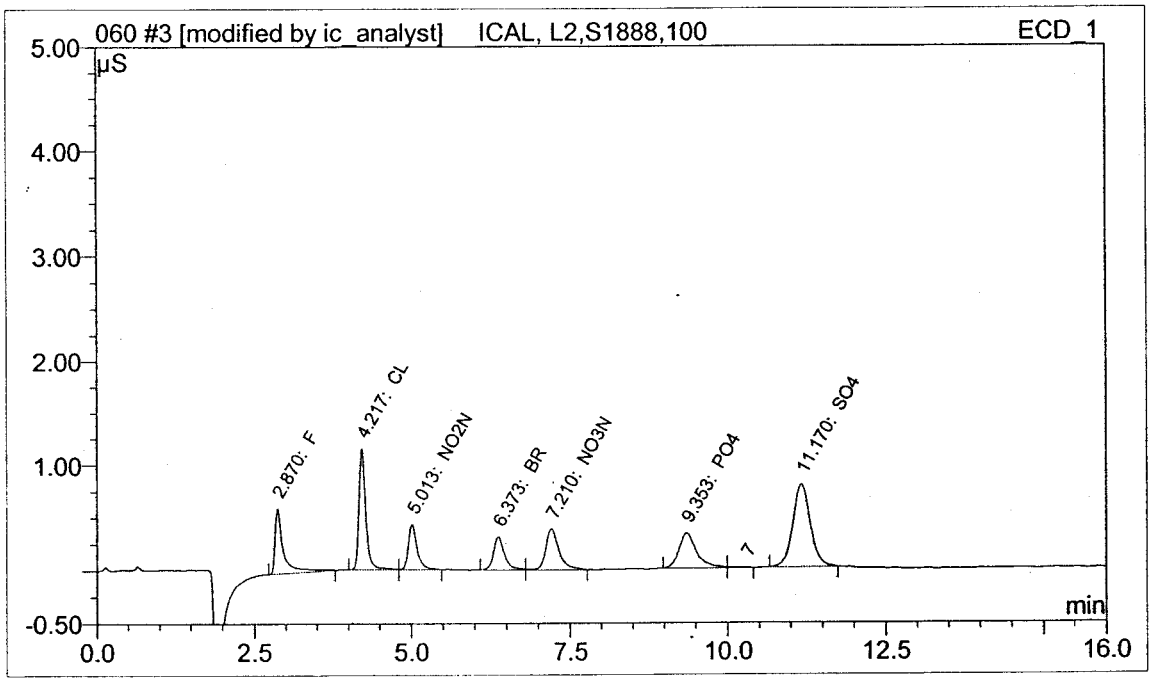
Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L2,S1888,100	**Sample No.:**	3
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:20 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.098503	0.5052	0.5052	
2	CL	4.217	0.147367	0.9803	0.9803	
3	NO2N	5.013	0.069403	0.2357	0.2357	
4	BR	6.373	0.062700	1.0120	1.0120	
5	NO3N	7.210	0.095842	0.2566	0.2566	
6	PO4	9.353	0.108648	0.9258	0.9258	
8	SO4	11.170	0.251558	2.3929	2.3929	



ANALYZED BY: _____

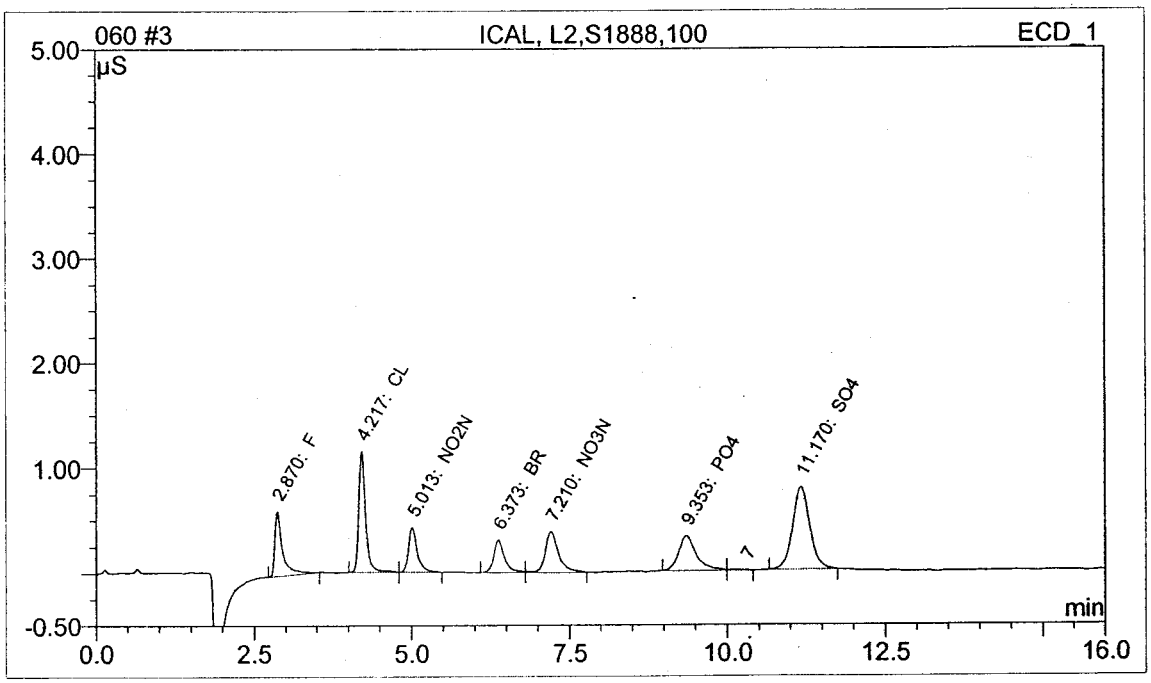
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L2,S1888,100	**Sample No.:**	3
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:20 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.089672	0.4613	0.4613	
2	CL	4.217	0.147367	0.9803	0.9803	
3	NO2N	5.013	0.069403	0.2357	0.2357	
4	BR	6.373	0.062700	1.0120	1.0120	
5	NO3N	7.210	0.095842	0.2566	0.2566	
6	PO4	9.353	0.108648	0.9258	0.9258	
8	SO4	11.170	0.251558	2.3929	2.3929	



ANALYZED BY: _____

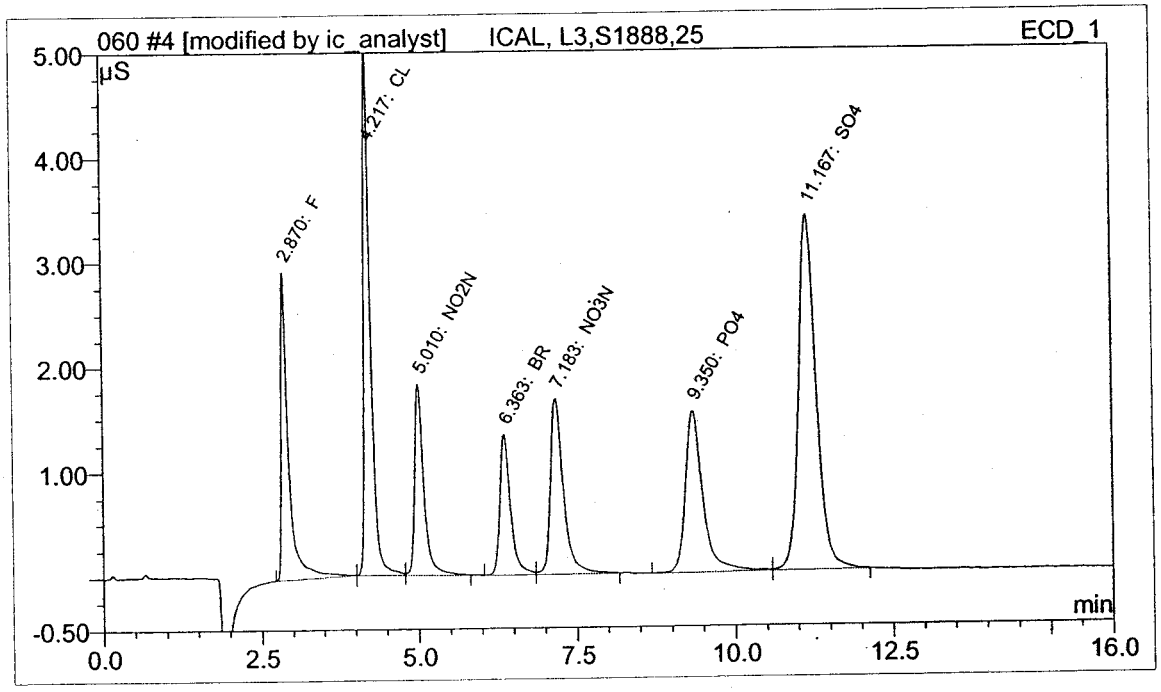
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L3,S1888,25	**Sample No.:**	4
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:39 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.402286	2.0231	2.0231	
2	CL	4.217	0.629116	4.0722	4.0722	
3	NO2N	5.010	0.303748	1.0189	1.0189	
4	BR	6.363	0.265105	4.2189	4.2189	
5	NO3N	7.183	0.397785	1.0470	1.0470	
6	PO4	9.350	0.496547	4.1277	4.1277	
7	SO4	11.167	1.098657	10.2090	10.2090	



ANALYZED BY: _____

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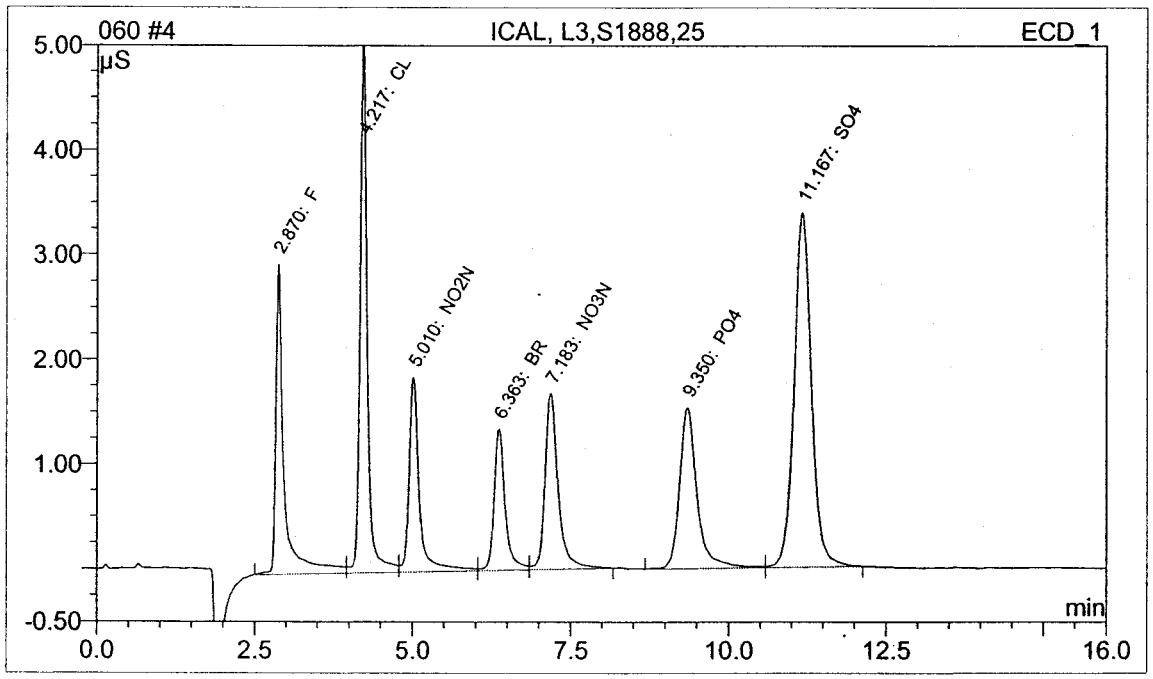
Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L3,S1888,25	**Sample No.:**	4
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:39 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.455269	2.2018	2.2018	
2	CL	4.217	0.670131	4.2507	4.2507	
3	NO2N	5.010	0.344377	1.1110	1.1110	
4	BR	6.363	0.276408	4.3412	4.3412	
5	NO3N	7.183	0.404782	1.0595	1.0595	
6	PO4	9.350	0.496547	4.1277	4.1277	
7	SO4	11.167	1.098657	10.2090	10.2090	



ANALYZED BY: _____

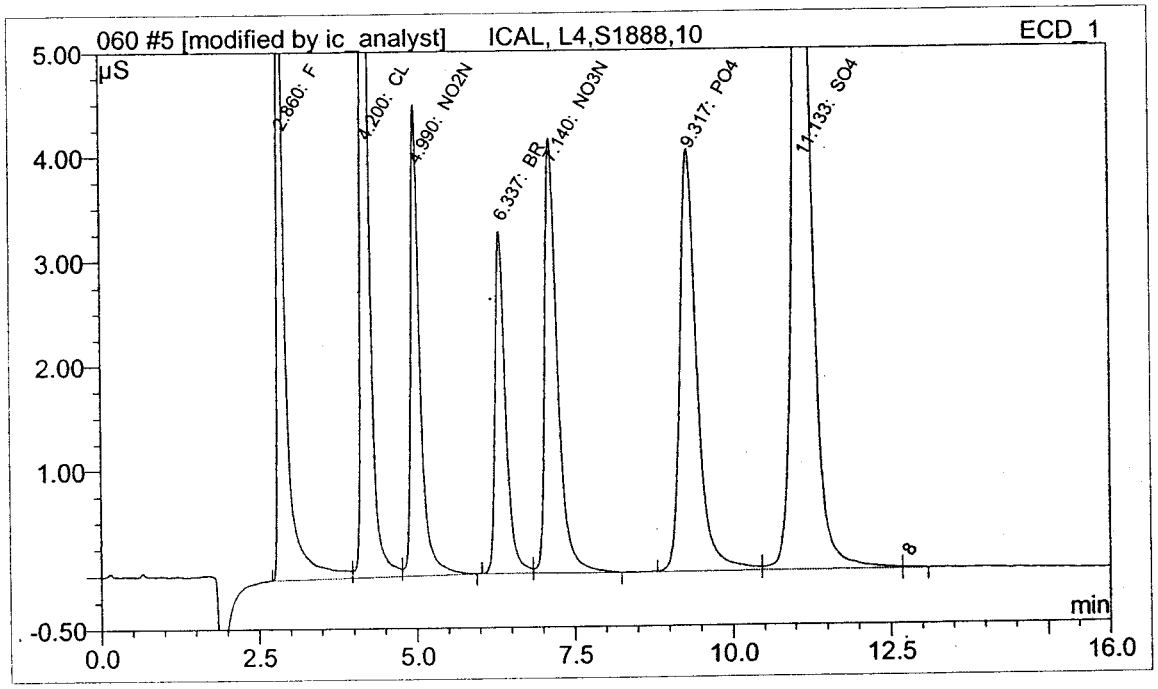
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L4,S1888,10	**Sample No.:**	5
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:57 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.860	1.029135	4.9857	4.9857	
2	CL	4.200	1.617474	9.9589	9.9589	
3	NO2N	4.990	0.759872	2.4911	2.4911	
4	BR	6.337	0.635291	9.8662	9.8662	
5	NO3N	7.140	0.967493	2.4706	2.4706	
6	PO4	9.317	1.248459	9.9383	9.9383	
7	SO4	11.133	2.795566	24.8943	24.8943	



ANALYZED BY: _____

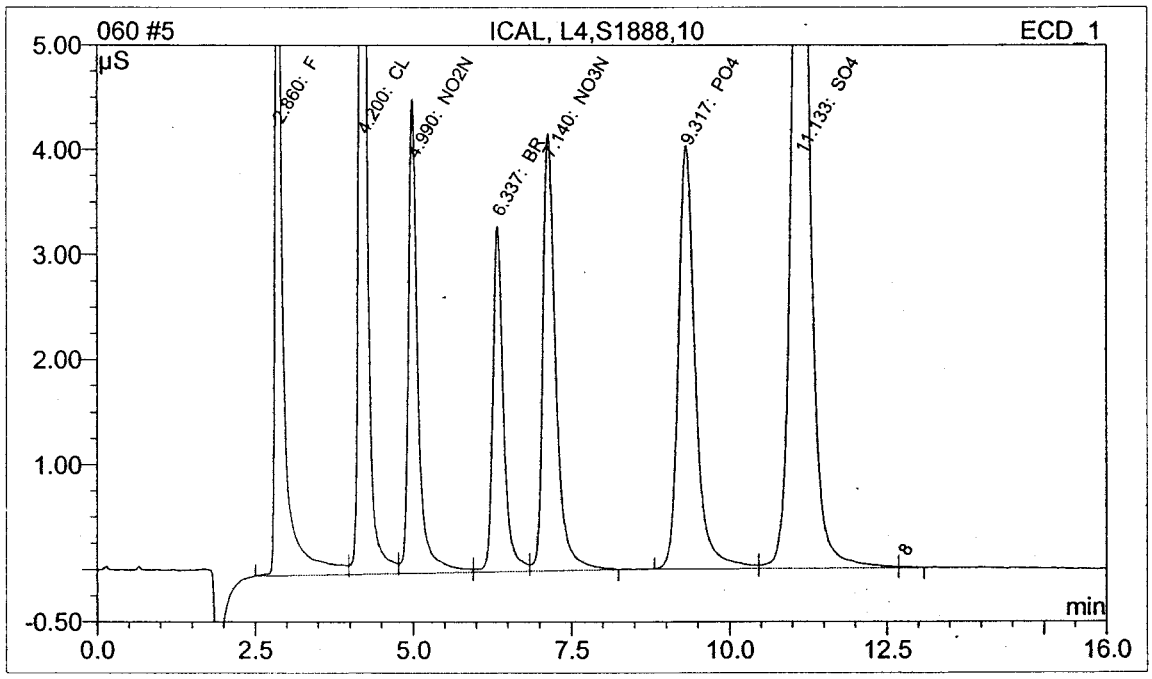
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L4,S1888,10	**Sample No.:**	5
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:57 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.860	1.056871	5.0244	5.0244	
2	CL	4.200	1.636258	9.9916	9.9916	
3	NO2N	4.990	0.792664	2.5227	2.5227	
4	BR	6.337	0.658007	9.9696	9.9696	
5	NO3N	7.140	0.980796	2.4805	2.4805	
6	PO4	9.317	1.248459	9.9383	9.9383	
7	SO4	11.133	2.795566	24.8943	24.8943	



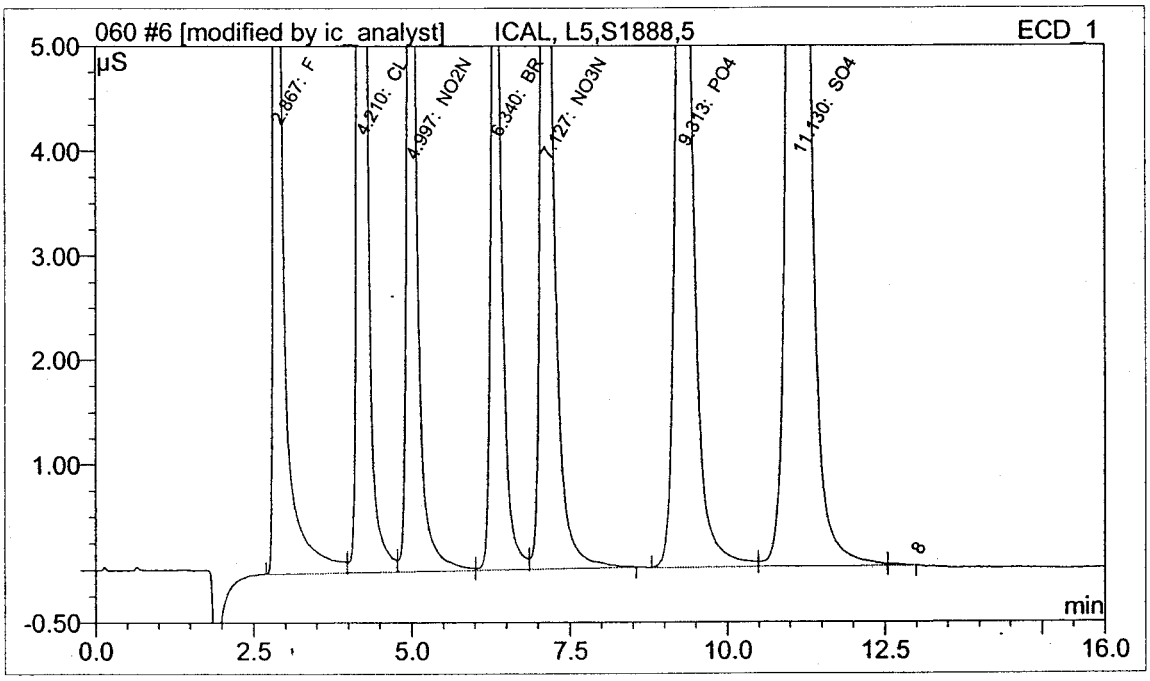
ANALYZED BY: REVIEWED BY:

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L5,S1888,5	**Sample No.:**	6
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:15 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.867	2.192959	10.0024	10.0024	
2	CL	4.210	3.519967	20.0067	20.0067	
3	NO2N	4.997	1.584757	5.0014	5.0014	
4	BR	6.340	1.345233	20.0232	20.0232	
5	NO3N	7.127	2.063887	5.0051	5.0051	
6	PO4	9.313	2.698316	20.0096	20.0096	
7	SO4	11.130	6.017213	50.0167	50.0167	



ANALYZED BY: _____

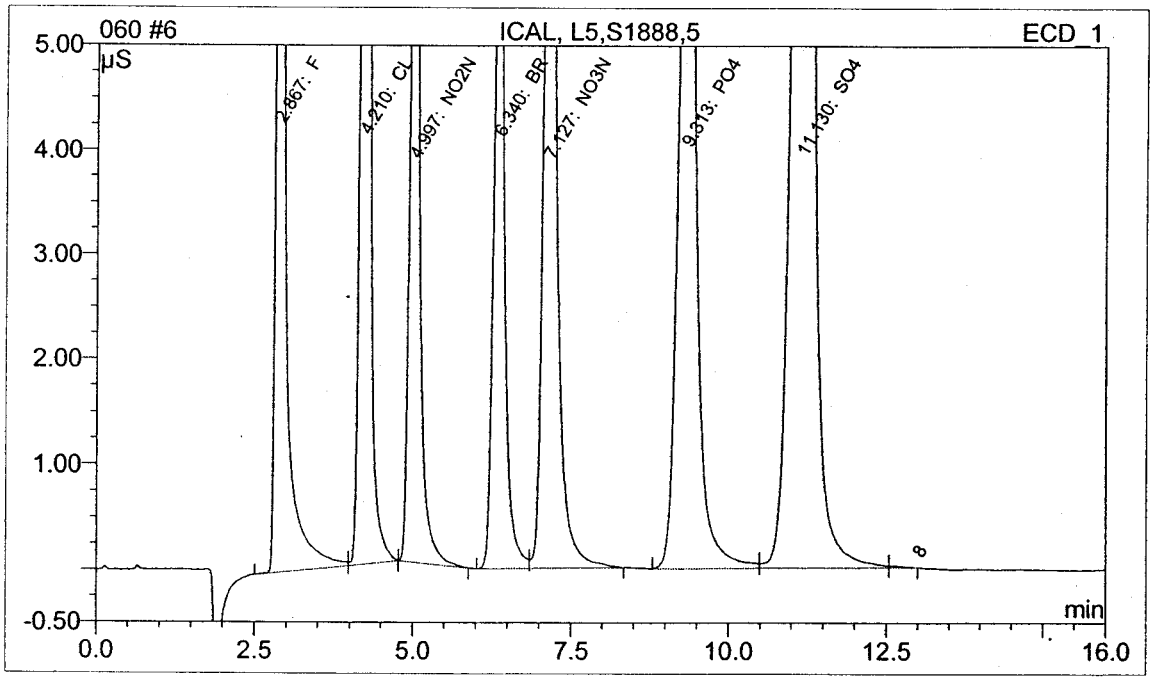
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L5,S1888,5	**Sample No.:**	6
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:15 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.867	2.155657	10.0007	10.0007	
2	CL	4.210	3.453075	20.0031	20.0031	
3	NO2N	4.997	1.510616	4.9988	4.9988	
4	BR	6.340	1.331781	20.0216	20.0216	
5	NO3N	7.127	2.045893	5.0047	5.0047	
6	PO4	9.313	2.698316	20.0096	20.0096	
7	SO4	11.130	6.017213	50.0167	50.0167	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626087283007 File : 060_7.000 Time : 01-MAR-2006 16:34
Cal : 626087283001 Caldate: 01-MAR-2006
Standards: S1085 (5X)

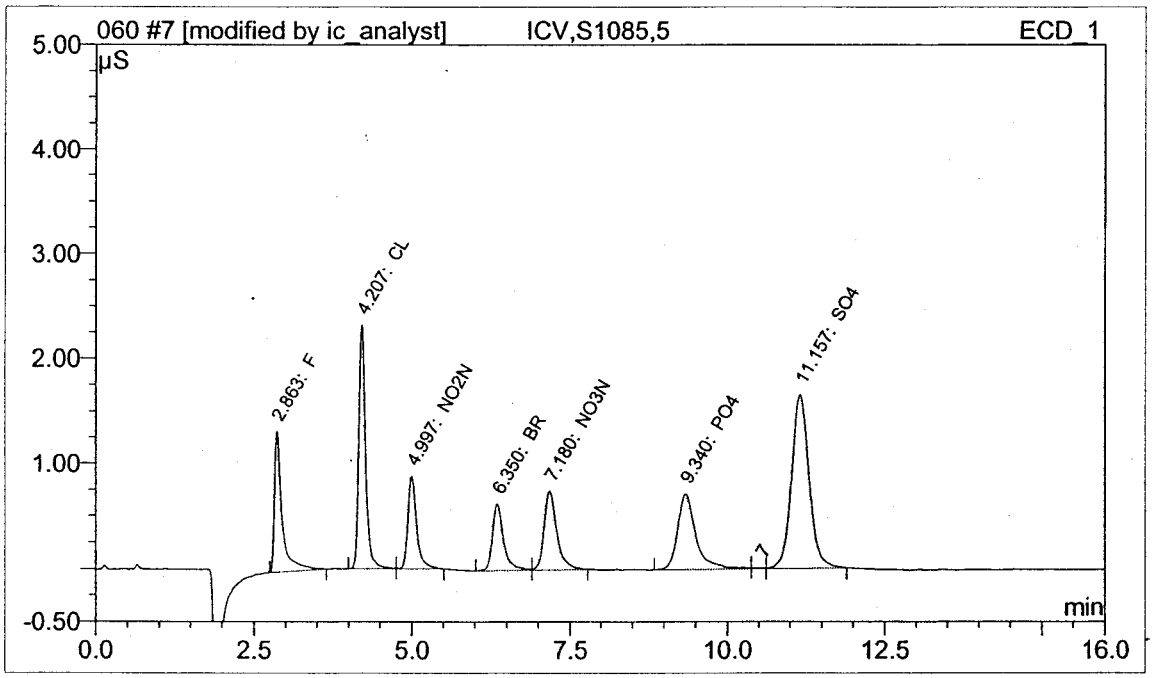
Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Fluoride	0.1990	0.1858	1.000	0.9473	mg/L	-5	10	
Chloride	0.1686	0.1455	2.000	1.920	mg/L	-4	10	
Nitrogen, Nitrite	0.2943	0.2873	0.5000	0.4860	mg/L	-3	10	
Bromide	0.0614	0.0638	2.000	2.050	mg/L	2	10	
Nitrogen, Nitrate	0.3874	0.3456	0.5000	0.4606	mg/L	-8	10	
Orthophosphate (as P)	0.1182	0.1201	2.000	2.029	mg/L	1	10	N1
Sulfate	0.1099	0.1070	5.000	5.047	mg/L	1	10	

MRS 3/2/06

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:34 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.863	0.185760	0.9473	0.9473	
2	CL	4.207	0.291093	1.9202	1.9202	
3	NO2N	4.997	0.143651	0.4860	0.4860	
4	BR	6.350	0.127568	2.0496	2.0496	
5	NO3N	7.180	0.172776	0.4606	0.4606	
6	PO4	9.340	0.240207	2.0292	2.0292	
8	SO4	11.157	0.534812	5.0468	5.0468	



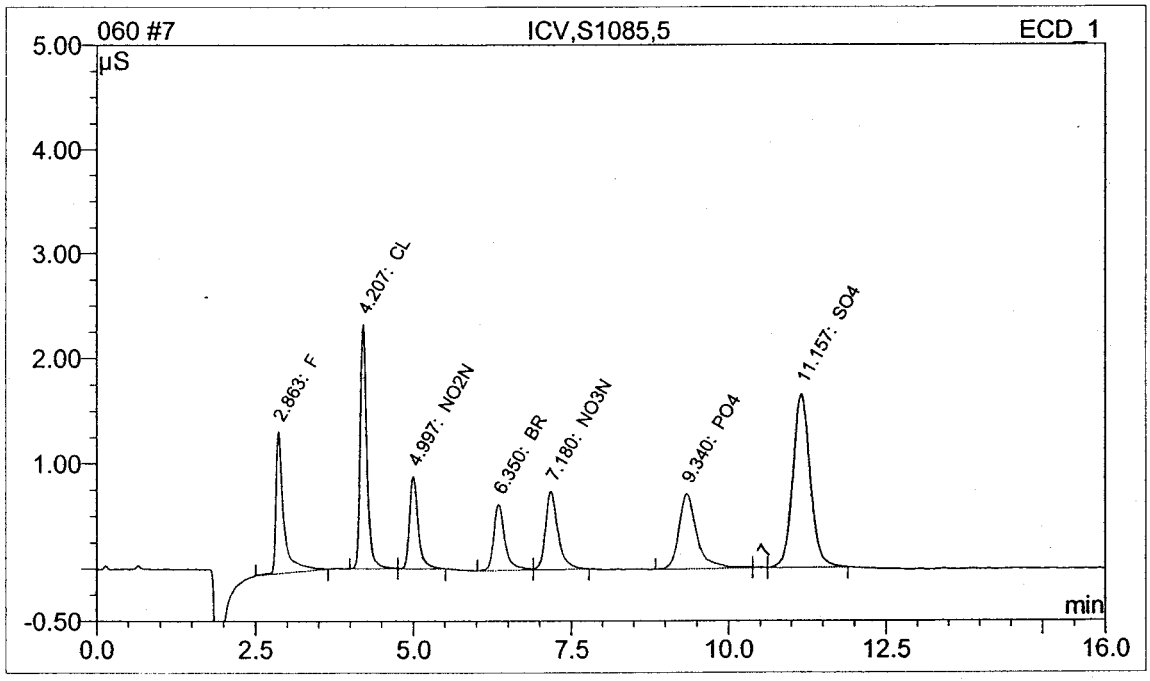
ANALYZED BY: REVIEWED BY:

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:34 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.863	0.193974	0.9887	0.9887	
2	CL	4.207	0.291093	1.9202	1.9202	
3	NO2N	4.997	0.143651	0.4860	0.4860	
4	BR	6.350	0.127568	2.0496	2.0496	
5	NO3N	7.180	0.172776	0.4606	0.4606	
6	PO4	9.340	0.240207	2.0292	2.0292	
8	SO4	11.157	0.534812	5.0468	5.0468	



ANALYZED BY: REVIEWED BY:

Curtis & Tompkins, Ltd.

CONTINUING CALIBRATION SUMMARY FOR 187065 IC Water
Curtis & Tompkins Laboratories

Analyte: Fluoride

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC03	P	626209573007	25-MAY-2006 11:58	626087283001	01-MAR-2006	0.1990	0.1918	0.5000	0.4921	mg/L	-2	10	
IC03	P	626209573018	25-MAY-2006 15:22	626087283001	01-MAR-2006	0.1990	0.1913	2.0000	1.9265	mg/L	-4	10	
IC03	P	626209573030	25-MAY-2006 19:05	626087283001	01-MAR-2006	0.1990	0.2126	5.0000	5.1393	mg/L	3	10	
IC03	P	626209573045	25-MAY-2006 23:41	626087283001	01-MAR-2006	0.1990	0.2006	2.0000	2.0180	mg/L	1	10	
IC03	P	626209573062	26-MAY-2006 04:54	626087283001	01-MAR-2006	0.1990	0.2135	5.0000	5.1614	mg/L	3	10	

CONTINUING CALIBRATION SUMMARY FOR 187065 IC Water
Curtis & Tompkins Laboratories

Analyte: Chloride

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC03	P	626209573007	25-MAY-2006 11:58	626087283001	01-MAR-2006	0.1686	0.1462	1.0000	0.9727	mg/L	-3	10	
IC03	P	626209573018	25-MAY-2006 15:22	626087283001	01-MAR-2006	0.1686	0.1474	4.0000	3.8256	mg/L	-4	10	
IC03	P	626209573030	25-MAY-2006 19:05	626087283001	01-MAR-2006	0.1686	0.1656	10.000	10.180	mg/L	2	10	
IC03	P	626209573045	25-MAY-2006 23:41	626087283001	01-MAR-2006	0.1686	0.1547	4.0000	4.0083	mg/L	0	10	
IC03	P	626209573062	26-MAY-2006 04:54	626087283001	01-MAR-2006	0.1686	0.1653	10.000	10.161	mg/L	2	10	
IC03	P	626209573073	26-MAY-2006 08:17	626087283001	01-MAR-2006	0.1686	0.1469	1.0000	0.9773	mg/L	-2	10	

CONTINUING CALIBRATION SUMMARY FOR 187065 IC Water
Curtis & Tompkins Laboratories

Analyte: Nitrogen, Nitrite

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC03	P	626209573007	25-MAY-2006 11:58	626087283001	01-MAR-2006	0.2943	0.2893	0.2500	0.2457	mg/L	-2	10	
IC03	P	626209573018	25-MAY-2006 15:22	626087283001	01-MAR-2006	0.2943	0.3023	1.0000	1.0143	mg/L	1	10	
IC03	P	626209573030	25-MAY-2006 19:05	626087283001	01-MAR-2006	0.2943	0.3259	2.5000	2.6636	mg/L	7	10	
IC03	P	626209573045	25-MAY-2006 23:41	626087283001	01-MAR-2006	0.2943	0.3102	1.0000	1.0402	mg/L	4	10	
IC03	P	626209573062	26-MAY-2006 04:54	626087283001	01-MAR-2006	0.2943	0.3256	2.5000	2.6614	mg/L	6	10	

CONTINUING CALIBRATION SUMMARY FOR 187065 IC Water
Curtis & Tompkins Laboratories

Analyte: Nitrogen, Nitrate

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC03	P	626209573007	25-MAY-2006 11:58	626087283001	01-MAR-2006	0.3874	0.3482	0.2500	0.2332	mg/L	-7	10	
IC03	P	626209573018	25-MAY-2006 15:22	626087283001	01-MAR-2006	0.3874	0.3555	1.0000	0.9380	mg/L	-6	10	
IC03	P	626209573030	25-MAY-2006 19:05	626087283001	01-MAR-2006	0.3874	0.3755	2.5000	2.4006	mg/L	-4	10	
IC03	P	626209573045	25-MAY-2006 23:41	626087283001	01-MAR-2006	0.3874	0.3589	1.0000	0.9467	mg/L	-5	10	
IC03	P	626209573062	26-MAY-2006 04:54	626087283001	01-MAR-2006	0.3874	0.3740	2.5000	2.3918	mg/L	-4	10	

CONTINUING CALIBRATION SUMMARY FOR 187065 IC Water
Curtis & Tompkins Laboratories

Analyte: Sulfate

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC03	P	626209573007	25-MAY-2006 11:58	626087283001	01-MAR-2006	0.1099	0.1084	2.5000	2.5772	mg/L	3	10	
IC03	P	626209573018	25-MAY-2006 15:22	626087283001	01-MAR-2006	0.1099	0.1067	10.000	9.9216	mg/L	-1	10	
IC03	P	626209573030	25-MAY-2006 19:05	626087283001	01-MAR-2006	0.1099	0.1168	25.000	25.918	mg/L	4	10	
IC03	P	626209573045	25-MAY-2006 23:41	626087283001	01-MAR-2006	0.1099	0.1110	10.000	10.307	mg/L	3	10	
IC03	P	626209573062	26-MAY-2006 04:54	626087283001	01-MAR-2006	0.1099	0.1166	25.000	25.891	mg/L	4	10	
IC03	P	626209573073	26-MAY-2006 08:17	626087283001	01-MAR-2006	0.1099	0.1050	2.5000	2.4960	mg/L	0	10	

CURTIS & TOMPKINS BLANK USER REPORT FOR 187065 IC Water
EPA 300.0

Inst	: IC03	Lab ID	: QC341658		
Seqnum	: 626209573008.3	Matrix	: Water		
File	: 145_8.000	Batch	: 113849	Time	: 25-MAY-2006 12:16
IDF	: 1.0	PDF	: 1.0	Units	: mg/L
Cal	: 626087283001	Caldate	: 01-MAR-2006		

Analyte	Result	RL	Flags
Fluoride	ND	0.10	
Chloride	ND	0.20	
Nitrogen, Nitrite	ND	0.05	
Nitrogen, Nitrate	ND	0.05	
Sulfate	ND	0.50	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 187065 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626209573019 File : 145_19.000 Time : 25-MAY-2006 15:41
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 187065 IC Water
EPA 300.0

Inst : IC03
Seqnum : 626209573031
Cal : 626087283001

File : 145_31.000
Caldate: 01-MAR-2006

IDF : 1.0
Time : 25-MAY-2006 19:24

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 187065 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626209573046 File : 145_46.000 Time : 26-MAY-2006 00:00
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 187065 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626209573063 File : 145_63.000 Time : 26-MAY-2006 05:13
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	[0.02340]	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 187065 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626209573074 File : 145_74.000 Time : 26-MAY-2006 08:35
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

SEQUENCE SUMMARY FOR 187065 IC Water
Curtis & Tompkins Laboratories

Sequence: 626087283 Instrument: IC03 Ion Chromatograph Begun: 01-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	060_1.00	IB				01-MAR-2006 14:43	1.0		25				
002	060_2.00	ICAL	L1			01-MAR-2006 15:02	1.0					1	
003	060_3.00	ICAL	L2			01-MAR-2006 15:20	1.0					1	
004	060_4.00	ICAL	L3			01-MAR-2006 15:39	1.0					1	
005	060_5.00	ICAL	L4			01-MAR-2006 15:57	1.0					1	
006	060_6.00	ICAL	L5			01-MAR-2006 16:15	1.0					1	
007	060_7.00	ICV				01-MAR-2006 16:34	1.0		25			2	
008	060_8.00	ICB				01-MAR-2006 16:52	1.0		25				

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Stds used: 1=S1888 2=S1085

SEQUENCE SUMMARY FOR 187065 IC Water
Curtis & Tompkins Laboratories

Sequence: 626209573 Instrument: IC03 Ion Chromatograph Begun: 25-MAY-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
007	145_7.00	CCV	L	113849		25-MAY-2006 11:58	1.0	1	25			1	
008	145_8.00	CCB/MB	QC341658	113849	Water	25-MAY-2006 12:16	1.0		25				
009	145_9.00	BS	QC341659	113849	Water	25-MAY-2006 12:35	1.0		25			1	
010	145_10.0	BSD	QC341660	113849	Water	25-MAY-2006 12:53	1.0		25			1	
011	145_11.0	SAMPLE	187036-005	113849	Water	25-MAY-2006 13:12	50.0		25				
012	145_12.0	SAMPLE	187036-001	113849	Water	25-MAY-2006 13:30	1.0	1	25				2:SO4=89.9863
013	145_13.0	SAMPLE	187040-003	113849	Water	25-MAY-2006 13:48	1.0	2	25				2:SO4=136.628
014	145_14.0	SAMPLE	187040-001	113849	Water	25-MAY-2006 14:07	1.0	2	25				2:SO4=76.8388
015	145_15.0	SAMPLE	187040-002	113849	Water	25-MAY-2006 14:25	1.0	1	25				1:CL=109.574
016	145_16.0	SAMPLE	187036-001	113849	Water	25-MAY-2006 14:45	2.0		25				1:CL=26.7514
017	145_17.0	SAMPLE	187036-005	113849	Water	25-MAY-2006 15:04	1.0	1	25				2:SO4=103.641
018	145_18.0	CCV	M	113849		25-MAY-2006 15:22	1.0		25			1	
019	145_19.0	CCB		113849		25-MAY-2006 15:41	1.0		25				
020	145_20.0	SAMPLE	187040-001	113849	Water	25-MAY-2006 16:01	5.0		25				
021	145_21.0	SAMPLE	187040-002	113849	Water	25-MAY-2006 16:20	10.0		25				
022	145_22.0	SAMPLE	187065-012	113849	Water	25-MAY-2006 16:38	100.0		25				
023	145_23.0	SAMPLE	187040-003	113849	Water	25-MAY-2006 16:56	5.0		25				
024	145_24.0	MS	QC341661	113849	Water	25-MAY-2006 17:15	25.0		25			1	
025	145_25.0	MSD	QC341662	113849	Water	25-MAY-2006 17:33	25.0		25			1	
026	145_26.0	SAMPLE	187065-001	113849	Water	25-MAY-2006 17:52	1.0	1	25				1:CL=69.4198
027	145_27.0	SAMPLE	187065-002	113849	Water	25-MAY-2006 18:10	1.0	1	25				1:CL=55.6867
028	145_28.0	SAMPLE	187065-003	113849	Water	25-MAY-2006 18:28	1.0	1	25				1:CL=64.3600
029	145_29.0	SAMPLE	187065-004	113849	Water	25-MAY-2006 18:47	1.0	1	25				1:CL=45.6740
030	145_30.0	CCV	H	113849		25-MAY-2006 19:05	1.0		25			1	
031	145_31.0	CCB		113849		25-MAY-2006 19:24	1.0		25				
032	145_32.0	X	CCV	113849		25-MAY-2006 19:42	1.0					1	
033	145_33.0	X	CCB	113849		25-MAY-2006 20:01	1.0						
034	145_34.0	MSS	187065-005	113849	Water	25-MAY-2006 20:19	1.0	1	25				1:CL=61.0515
035	145_35.0	SAMPLE	187065-006	113849	Water	25-MAY-2006 20:37	1.0	3	25				3:SO4=67.5119
036	145_36.0	SAMPLE	187065-007	113849	Water	25-MAY-2006 20:56	1.0	2	25				2:SO4=72.0973
037	145_37.0	SAMPLE	187065-009	113849	Water	25-MAY-2006 21:14	1.0	2	25				2:SO4=131.061

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Stds used: 1=S3313

SEQUENCE SUMMARY FOR 187065 IC Water
Curtis & Tompkins Laboratories

Sequence: 626209573 Instrument: IC03 Ion Chromatograph Begun: 25-MAY-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
038	145_38.0	SAMPLE	187065-011	113849	Water	25-MAY-2006 21:33	1.0	2		25			2:CL=130.986	
039	145_39.0	SAMPLE	187065-014	113849	Water	25-MAY-2006 21:51	1.0	1		25			1:CL=82.1066	
040	145_40.0	SAMPLE	187065-015	113849	Water	25-MAY-2006 22:09	1.0	1		25			1:CL=61.4988	
041	145_41.0	SAMPLE	187065-016	113849	Water	25-MAY-2006 22:28	1.0	1		25			1:CL=127.812	
042	145_42.0	SAMPLE	187065-017	113849	Water	25-MAY-2006 22:46	1.0	1		25			1:CL=127.940	
043	145_43.0	SAMPLE	187065-012	113849	Water	25-MAY-2006 23:05	1.0	1		25			1:SO4=59.5698	
044	145_44.0	X	BLK	113849		25-MAY-2006 23:23	1.0							
045	145_45.0	CCV	M	113849		25-MAY-2006 23:41	1.0			25			1	
046	145_46.0	CCB		113849		26-MAY-2006 00:00	1.0			25				
047	145_47.0	X	CCV	113849		26-MAY-2006 00:18	1.0						1	
048	145_48.0	X	CCB	113849		26-MAY-2006 00:37	1.0							
049	145_49.0	SAMPLE	187065-013	113849	Water	26-MAY-2006 00:55	1.0	1		25			1:SO4=65.1196	
050	145_50.0	X	BLK	113849		26-MAY-2006 01:13	1.0							
051	145_51.0	SAMPLE	187065-012	113849	Water	26-MAY-2006 01:32	2.0	1		25			1:CL=153.153	
052	145_52.0	X	BLK	113849		26-MAY-2006 01:50	1.0							
053	145_53.0	SAMPLE	187065-013	113849	Water	26-MAY-2006 02:09	2.0	1		25			1:CL=149.424	464
054	145_54.0	X	BLK	113849		26-MAY-2006 02:27	1.0							
055	145_55.0	SAMPLE	187065-001	113849	Water	26-MAY-2006 02:46	25.0			25				
056	145_56.0	SAMPLE	187065-002	113849	Water	26-MAY-2006 03:04	10.0			25				
057	145_57.0	SAMPLE	187065-003	113849	Water	26-MAY-2006 03:22	25.0			25				
058	145_58.0	SAMPLE	187065-004	113849	Water	26-MAY-2006 03:41	25.0			25				
059	145_59.0	MSS	187065-005	113849	Water	26-MAY-2006 03:59	25.0			25				
060	145_60.0	SAMPLE	187065-006	113849	Water	26-MAY-2006 04:18	10.0			25				
061	145_61.0	SAMPLE	187065-007	113849	Water	26-MAY-2006 04:36	25.0			25				
062	145_62.0	CCV	H	113849		26-MAY-2006 04:54	1.0			25			1	
063	145_63.0	CCB		113849		26-MAY-2006 05:13	1.0			25				
064	145_64.0	X	CCV	113849		26-MAY-2006 05:31	1.0						1	
065	145_65.0	X	CCB	113849		26-MAY-2006 05:50	1.0							
066	145_66.0	SAMPLE	187065-009	113849	Water	26-MAY-2006 06:08	25.0			25				
067	145_67.0	SAMPLE	187065-011	113849	Water	26-MAY-2006 06:26	25.0			25				
068	145_68.0	SAMPLE	187065-013	113849	Water	26-MAY-2006 06:45	100.0			25				

Stds used: 1=S3313

SEQUENCE SUMMARY FOR 187065 IC Water
Curtis & Tompkins Laboratories

Sequence: 626209573 Instrument: IC03 Ion Chromatograph Begun: 25-MAY-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
069	145_69.0	SAMPLE	187065-014	113849	Water	26-MAY-2006 07:03	10.0			25				
070	145_70.0	SAMPLE	187065-015	113849	Water	26-MAY-2006 07:22	25.0			25				
071	145_71.0	SAMPLE	187065-016	113849	Water	26-MAY-2006 07:40	25.0			25				
072	145_72.0	SAMPLE	187065-017	113849	Water	26-MAY-2006 07:58	25.0			25				
073	145_73.0	CCV	L	113849		26-MAY-2006 08:17	1.0	1		25			1	
074	145_74.0	CCB		113849		26-MAY-2006 08:35	1.0			25				
075	145_75.0	X	CCV	113849		26-MAY-2006 08:54	1.0						1	
076	145_76.0	X	CCB	113849		26-MAY-2006 09:12	1.0							
077	145_77.0	X	SHUTDOWN	113849		26-MAY-2006 09:31	1.0							

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Stds used: 1=S3313

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187065 IC Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	CL	NO2N	NO3N	SO4
187065-001	IC03	05/25/06 17:52	1.0	+		+	+	+
187065-001	IC03	05/26/06 02:46	25.0		+			
187065-002	IC03	05/25/06 18:10	1.0	+		+	+	+
187065-002	IC03	05/26/06 03:04	10.0		+			
187065-003	IC03	05/25/06 18:28	1.0	+		+	+	+
187065-003	IC03	05/26/06 03:22	25.0		+			
187065-004	IC03	05/25/06 18:47	1.0	+		+	+	+
187065-004	IC03	05/26/06 03:41	25.0		+			
187065-005	IC03	05/25/06 20:19	1.0	+		+	+	+
187065-005	IC03	05/26/06 03:59	25.0		+			
187065-006	IC03	05/25/06 20:37	1.0	+		+		
187065-006	IC03	05/26/06 04:18	10.0		+		+	+
187065-007	IC03	05/25/06 20:56	1.0	+		+	+	
187065-007	IC03	05/26/06 04:36	25.0		+			+
187065-009	IC03	05/25/06 21:14	1.0	+		+	+	
187065-009	IC03	05/26/06 06:08	25.0		+			+
187065-011	IC03	05/25/06 21:33	1.0	+		+	+	
187065-011	IC03	05/26/06 06:26	25.0		+			+
187065-012	IC03	05/25/06 16:38	100.0		+			
187065-012	IC03	05/25/06 23:05	1.0	+			+	
187065-012	IC03	05/26/06 01:32	2.0			+		+
187065-013	IC03	05/26/06 00:55	1.0	+			+	
187065-013	IC03	05/26/06 02:09	2.0			+		+
187065-013	IC03	05/26/06 06:45	100.0		+			
187065-014	IC03	05/25/06 21:51	1.0	+		+	+	+
187065-014	IC03	05/26/06 07:03	10.0		+			
187065-015	IC03	05/25/06 22:09	1.0	+		+	+	+
187065-015	IC03	05/26/06 07:22	25.0		+			
187065-016	IC03	05/25/06 22:28	1.0	+		+	+	+
187065-016	IC03	05/26/06 07:40	25.0		+			
187065-017	IC03	05/25/06 22:46	1.0	+		+	+	+
187065-017	IC03	05/26/06 07:58	25.0		+			

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187065 IC Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	CL	NO2N	NO3N	SO4	
QC341658	IC03	05/25/06 12:16	1.0	+	+	+	+	+	
QC341659	IC03	05/25/06 12:35	1.0	+	+	+	+	+	
QC341660	IC03	05/25/06 12:53	1.0	+	+	+	+	+	
QC341661	IC03	05/25/06 17:15	25.0	+	+	+	+	+	
QC341662	IC03	05/25/06 17:33	25.0	+	+	+	+	+	

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 113849
Date Started: 25-MAY-2006
Batched by : Micah Smith

Analysis : N/A
Bgroup : IC
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
187036-001			ENSR Consulting &	Water	NITRATE, SULFATE	31-MAY-2006
187036-005			ENSR Consulting &	Water	NITRATE, SULFATE	31-MAY-2006
187040-001			Tetra Tech EC, INC	Water	CHLORIDE, NITRATE, SULFATE	06-JUN-2006
187040-002			Tetra Tech EC, INC	Water	CHLORIDE, NITRATE, SULFATE	06-JUN-2006
187040-003			Tetra Tech EC, INC	Water	CHLORIDE, NITRATE, SULFATE	06-JUN-2006
187065-001			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	07-JUN-2006
187065-002			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	07-JUN-2006
187065-003			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	07-JUN-2006
187065-004			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	07-JUN-2006
187065-005			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	07-JUN-2006
187065-006			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	07-JUN-2006
187065-007			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	07-JUN-2006
187065-009			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	07-JUN-2006
187065-011			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	07-JUN-2006
187065-012			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	07-JUN-2006
187065-013			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	07-JUN-2006
187065-014			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	07-JUN-2006
187065-015			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	07-JUN-2006
187065-016			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	07-JUN-2006
187065-017			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	07-JUN-2006
QC341658	BLANK			Water		
QC341659	BS			Water		
QC341660	BSD			Water		
QC341661	MS	of 187065-005		Water		
QC341662	MSD	of 187065-005		Water		

Curtis & Tompkins, Ltd.

Water Prep Log

Ion Chromatography

Analysis: ☒ Anions EPA 300 / EPA 9056
☐ Perchlorate (ClO_4) EPA 314
☐ Cr6+ EPA 7199

Batch#: 113849
Date Started: 5/25/06
Prep Chemist: MRS

BK 2305
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	Sample #	Conductivity	Estimated Dilution Factor	Filters Used	Comments
1	187036-001 F	0.16	1x 2x	S	
2	-005 F	2.26	50x 1x		
3	187040-001 G	1.36	1x 5x		
4	-002	1.56	10x		
5	-003	1.30	5x		
6	187065-001 I	1.14	1x 25x		
7	-002 F	0.75	10x		
8	-003 F	1.13	25x		
9	-004 I	1.17	25x		
10	-005	0.82	25x		MSS
11	-006	0.69	10x		
12	-007 B	1.00	25x		
13	-009 H	1.79	25x		
14	-011	1.86	25x		
15	-012	3.80	100x 2x		
16	-013	3.84	100x 2x		
17	-014 I	0.76	10x		
18	-015 F	1.28	25x		
19	-016	1.25	25x		
20	-017	1.25	25x		
	Blank QC341658	N/A	1x	N/A	
	BS QC341659				
	BSD QC341660				
	MS QC341661 I		25x	S	
	MSD QC341662 I		25x	S	

	Mfg & Lot # / Time / Program	Initials / Date
Eluent Reagent ID	100x MRS 4/17/06	MRS 5/25/06
BS/BSD Spiked with 0.2 mL of :	53313	
MS/MSD Spiked with 0.1 mL of :	53313	
Filters Used: Ag: OnGuard II Ag	N/A	
Na: OnGuard II Na		
P: OnGuard II P		
RP: OnGuard II RP		
S: 0.20um/0.45um	Acrodisc lot # A105393 46	

MRS 5/25/06
Extraction Chemist / Date

Continued from page ___
Continued on page ___

CP 5/26/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 300.0 Water
As of 06/22/06

Analyte	Units	IC01	IC03
Fluoride	mg/L	0.018	0.023
Chloride	mg/L	0.026	0.032
Nitrogen, Nitrite	mg/L	0.0067	0.012
Bromide	mg/L	0.058	0.028
Nitrogen, Nitrate	mg/L	0.018	0.0088
Orthophosphate (as P)	mg/L	0.045	0.037
Sulfate	mg/L	0.046	0.079

Curtis & Tompkins, Ltd.

Sulfide

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 376.2
Analyte:	Sulfide	Batch#:	113958
Matrix:	Water	Sampled:	05/24/06
Units:	mg/L	Received:	05/25/06
Diln Fac:	1.000	Analyzed:	05/31/06

Field ID	Type	Lab ID	Result	RL
1065PZ1A	SAMPLE	187065-001	ND	0.04
1065PZ2A	SAMPLE	187065-002	ND	0.04
1065PZ4A	SAMPLE	187065-003	ND	0.04
1065MW101	SAMPLE	187065-004	ND	0.04
1065MW102	SAMPLE	187065-005	0.04	0.04
231GW09	SAMPLE	187065-006	ND	0.04
1065PZ1B	SAMPLE	187065-014	ND	0.04
1065PZ5AR	SAMPLE	187065-015	ND	0.04
1065MW9A	SAMPLE	187065-016	ND	0.04
DUP0524063B	SAMPLE	187065-017	ND	0.04
	BLANK	QC342096	ND	0.04

ND= Not Detected
RL= Reporting Limit

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REVISED

Curtis & Tompkins, Ltd.

Batch QC Report

Sulfide

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 376.2
Analyte:	Sulfide	Diln Fac:	1.000
Field ID:	DUP0524063B	Batch#:	113958
MSS Lab ID:	187065-017	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	mg/L	Analyzed:	05/31/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC342097	<0.04000	0.2432	0	0 *	75-125		
MSD	QC342098		0.2432	0	0 *	75-125	0	20
LCS	QC342099		0.3648	0.3669	101	75-125		

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

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39.1

REVISED

Analysis:	**SULFIDE**	Matrix:	Water
Method:	**EPA 376.2**	Batch:	**113958**
Instrument:	HP UV-VIS Spectrometer	Prep Date:	**5/31/2006**
Wavelength:	626 nm	Analysis Date:	**5/31/2006**
SOP#:	sulfide_376_rv 4.doc	Analyst:	DMc

INITIAL CALIBRATION DATA

Calibration Date: 11/15/05

Conc (mg/L)	Absorb	RF
0.0000	0.0001	
0.0233	0.0090	0.3863
0.0466	0.0156	0.3348
0.1862	0.0555	0.2981
0.3725	0.1650	0.4430
0.7450	0.3293	0.4420
1.3040	0.5687	0.4361
1.6760	0.7467	0.4455

Correlation Coefficient (r):	0.9994
Avg Rf:	0.3980
%RSD:	15.1

Note: Average Rf used to calculate sample results.

CONTINUING CALIBRATION DATA

	Absorb	Conc (mg/L)	True (mg/L)	Recovery	CV Limits
ICV	0.1460	0.3669	0.3648	101%	90 - 110%
ICB	-0.0004	-0.0010	0.0000		
CCV	0.1453	0.3651	0.3648	100%	90 - 110%
CCB	0.0027	0.0068	0.0000		
CCV	0.1447	0.3636	0.3648	100%	90 - 110%
CCB	0.0029	0.0073	0.0000		

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Analysis: **SULFIDE**
Method: **EPA 376.2**
Instrument: HP UV-VIS Spectrometer
Wavelength: 626 nm
Matrix: Water

Batch: **113958**
Prep Date: **5/31/2006**
Analysis Date: **5/31/2006**
Analyst: DMc

SAMPLE & BATCH QC DATA

Sample ID	Sample Vol (mL)	D.F.	Sample Absorb	Color Blk Absorb	**Report** mg/L	Reporting Limit (mg/L)	Vol Spike Added (mL)	Std Conc. (mg/L)	Spiked @ (mg/L)	**% Rec**	**% RPD**
MB	7.5000	1.0000	-0.0004		**ND**	0.040					
LCS	7.5000	1.0000	0.1460		**0.36687**	0.040	1.0000	36.4800	0.3648	**101**	
187065-17	7.5000	1.0000	0.0017		**ND**	0.040					
187065-17M	7.5000	1.0000	0.0065		**ND**	0.040	0.0500	36.4800	0.2432	**0 ***	
187065-17M	7.5000	1.0000	0.0078		**ND**	0.040	0.0500	36.4800	0.2432	**0 ***	**#DIV/0! #**
187040-1	7.5000	1.0000	0.0088		**ND**	0.040					
187040-2	7.5000	1.0000	0.0089		**ND**	0.040					
187040-3	7.5000	1.0000	0.0154		**ND**	0.040					
187065-1	7.5000	1.0000	0.0120		**ND**	0.040					
187065-2	7.5000	1.0000	0.0156		**ND**	0.040					
187065-3	7.5000	1.0000	0.0055		**ND**	0.040					
187065-4	7.5000	1.0000	0.0061		**ND**	0.040					
187065-5	7.5000	1.0000	0.0179		**0.04498**	0.040					
187065-6	7.5000	1.0000	0.0048		**ND**	0.040					
187065-14	7.5000	1.0000	0.0111		**ND**	0.040					
187065-15	7.5000	1.0000	0.0116		**ND**	0.040					
187065-16	7.5000	1.0000	0.0077		**ND**	0.040					

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	20	42 - 121

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Reviewed by/ Date: DMB 6/7/06

C&T, f:\inorgan\wetstuff\sulfide.xls
Rev. 9.1, Effective 2/27/06

---> **Quantitation Results Report** <---

Date : 05-~~29~~ 31-2006
Time : 11:37:38 5-31-06
Operator : Not Entered

File Name : Data not stored yet

Sample Name : sulfide
Solvent Name : CAL11-15-05
Conc Units : mg/L
Dil. Factor : 1.00

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

SAMPLE #	Sample Name	Wavelength	Func. Res.	Concentration
1	icb/mb	Analytical	-0.0004	0.00000
2	icv/lcs	Analytical	+0.1460	0.33079
3	187040-1	Analytical	+0.0088	0.01991
4	187040-2	Analytical	+0.0089	0.02012
5	187040-3	Analytical	+0.0154	0.03488
6	187065-1	Analytical	+0.0120	0.02710
7	187065-2	Analytical	+0.0156	0.03526
8	187065-3	Analytical	+0.0055	0.01255
9	187065-4	Analytical	+0.0061	0.01383
10	187065-5	Analytical	+0.0179	0.04059
11	ccv	Analytical	+0.1453	0.32913
12	ccb	Analytical	+0.0027	0.00622
13	187065-6	Analytical	+0.0048	0.01079
14	187065-14	Analytical	+0.0111	0.02517
15	187065-15	Analytical	+0.0116	0.02624
16	187065-16	Analytical	+0.0077	0.01753
17	187065-17	Analytical	+0.0017	0.00391
18	187065-17ms	Analytical	+0.0065	0.01476
19	187065-17msd	Analytical	+0.0078	0.01760
20	ccv	Analytical	+0.1447	0.32775

21	ccb	Analytical	+0.0029	0.00647

---> **Standard Calibration Report** <---

Date : 05-~~29~~ 31-2006
Time : 11:38:09 5-31-06
Operator : Not Entered

File Name : C:\UV\DATA\ss1105.STD

Sample Name : sulfide
Solvent Name : CAL11-15-05
Conc Units : mg/L

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

Analytical Function Concentration = +2.266E+00 * Absorbance

STD #	Concentration	Absorbance	% Error
1	0.00000	0.0001	*****
2	0.37250	0.1650	-0.366 %
3	0.74500	0.3293	-0.135 %
4	1.30400	0.5687	+1.198 %
5	1.67600	0.7467	-0.933 %
6	0.02330	0.0090	+14.422 %
7	0.04660	0.0156	+31.758 %
8	0.18620	0.0555	+48.042 %

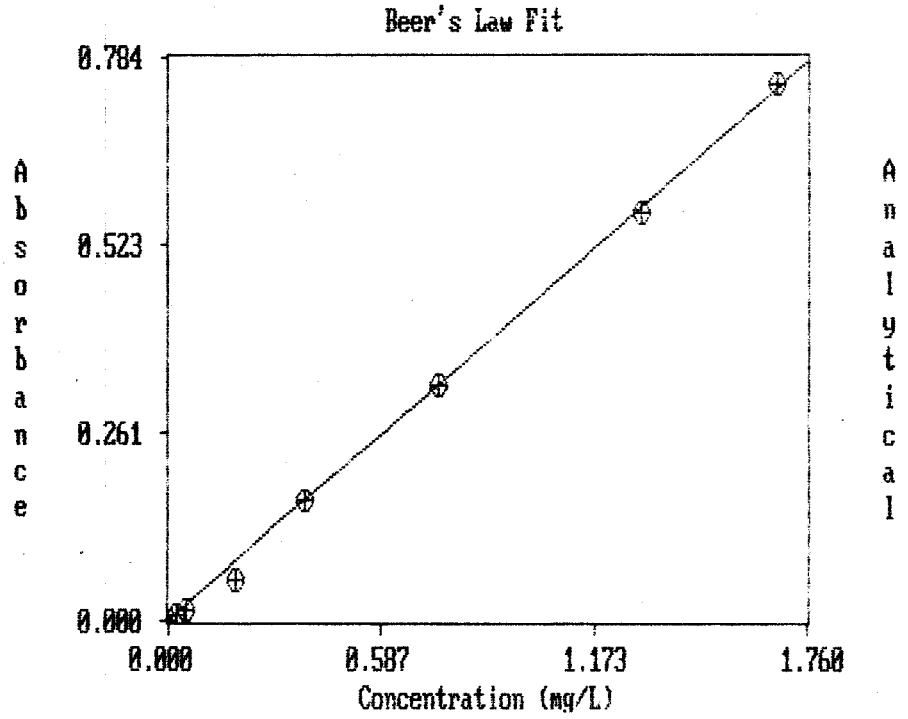
Date : 05-~~29~~ 31-2006 5-31-06
Time : 11:38:10
Operator : Not Entered

---> **Standard Calibration Report** <---

File Name : C:\UV\DATA\ss1105.STD

Sample Name : sulfide
Solvent Name : CAL11-15-05
Conc Units : mg/L

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds



PROJECT TETRA TECH 187040 / Treadwell 187065

Notebook No. BK2310

Continued From Page

Sulfide EPA 376.2 B113958

Sample	Vol (ml)	Final Vol (ml)	ABS
187040-1E	7.5	7.5	.0088
-2			.0089
-3			.0154
187065-1G			.0120
-2D			.0156
-3D			.0055
-4G			.0061
-5G			.0179
-6G			.0048
-14G			.0111
-15D			.0116
-16D			.0077
-17D			.0017
-17MS	~~+.05ml~~ +.05ml	(36.4800 mg/L from 0455292)	.0065
-17MSD	Same as MS		.0078
ICB/MB			-.0004
ICV/LCS	1ml 36.4800 mg/L	100ml, use 7.5ml	.1460
CCV			.1453
CCB			.0027
CCV			.1447
CCB			.0029

TV = .3648 mg/L

S std

~~2.4g 0455292~~ 50ml DI H2O

1.0 ml S=

5.0 ml I .02316N = .11580

2.50ml S_2O_3 .02352N = .05880

$\frac{.05700 \times 16000}{1.0} = 912.00$ mg/L

1:25 = 36.4800 mg/L

.05 — 7.5 = .2432 mg/L

1:100 = .364800 mg/L

Continued on Page

Read and Understood By

Signed: Dem Date: 5-31-06 478 Signed: [illegible] Date:

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 113958
Date Started: 31-MAY-2006
Batched by : Dennis McCanna

Analysis : SULFIDE
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
187040-001			Tetra Tech EC, INC	Water	SULFIDE	06-JUN-2006
187040-002			Tetra Tech EC, INC	Water	SULFIDE	06-JUN-2006
187040-003			Tetra Tech EC, INC	Water	SULFIDE	06-JUN-2006
187065-001			Treadwell & Rollo	Water	SULFIDE	07-JUN-2006
187065-002			Treadwell & Rollo	Water	SULFIDE	07-JUN-2006
187065-003			Treadwell & Rollo	Water	SULFIDE	07-JUN-2006
187065-004			Treadwell & Rollo	Water	SULFIDE	07-JUN-2006
187065-005			Treadwell & Rollo	Water	SULFIDE	07-JUN-2006
187065-006			Treadwell & Rollo	Water	SULFIDE	07-JUN-2006
187065-014			Treadwell & Rollo	Water	SULFIDE	07-JUN-2006
187065-015			Treadwell & Rollo	Water	SULFIDE	07-JUN-2006
187065-016			Treadwell & Rollo	Water	SULFIDE	07-JUN-2006
187065-017			Treadwell & Rollo	Water	SULFIDE	07-JUN-2006
QC342096	BLANK			Water	SULFIDE	
QC342097	MS	of 187065-017		Water	SULFIDE	
QC342098	MSD	of 187065-017		Water	SULFIDE	
QC342099	LCS			Water	SULFIDE	

Analysis:	Sulfide	Analysis Date:	4/14/2005
Method:	EPA 376.2	Analyst:	DM
Instrument:	HP UV/Vis		
Wavelength:	626 nm		

Instrument Calibrated to report sample results in concentration: mg/L

Concentration:	0.1098
Units:	mg/L
1	0.100
2	0.104
3	0.105
4	0.096
5	0.096
6	0.095
7	0.092
Average:	0.098 ug/L
Std Deviation:	0.004691
Student T:	3.143

(Student-T value for 7 replicates = 3.143, for 8 replicates = 2.998)

MDL = Student T * StdDev:	**0.0147** mg/L
Reporting Limit:	0.04 mg/L
Status:	PASS >1/3 RL

Curtis & Tompkins, Ltd.

Total Dissolved Solids (TDS)

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Sampled:	05/24/06
Matrix:	Water	Received:	05/25/06
Units:	mg/L	Analyzed:	05/30/06
Batch#:	113928		

Field ID	Type	Lab ID	Result	RL	Diln Fac
1065PZ1A	SAMPLE	187065-001	740	25	2.500
1065PZ2A	SAMPLE	187065-002	420	25	2.500
1065PZ4A	SAMPLE	187065-003	580	25	2.500
1065MW101	SAMPLE	187065-004	830	25	2.500
1065MW102	SAMPLE	187065-005	560	25	2.500
231GW09	SAMPLE	187065-006	480	25	2.500
1349MW100	SAMPLE	187065-012	2,550	50	5.000
DUP0524063A	SAMPLE	187065-013	2,460	50	5.000
1065PZ1B	SAMPLE	187065-014	500	25	2.500
1065PZ5AR	SAMPLE	187065-015	770	25	2.500
1065MW9A	SAMPLE	187065-016	770	25	2.500
DUP0524063B	SAMPLE	187065-017	890	25	2.500
	BLANK	QC341991	ND	10	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Dissolved Solids (TDS)

Lab #:	187065	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Batch#:	113928
Field ID:	ZZZZZZZZZZ	Sampled:	05/24/06
MSS Lab ID:	187016-001	Received:	05/24/06
Matrix:	Water	Analyzed:	05/30/06
Units:	mg/L		

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim	Diln Fac
BS	QC341992		100.0	84.00		84	79-121			1.000
BSD	QC341993		100.0	82.00		82	79-121	2	20	1.000
SDUP	QC341994	13,580		14,080	100.0			4	20	10.00

RL= Reporting Limit
RPD= Relative Percent Difference

Analysis:	**Total Dissolved Solids**	Analysis Date:	**5/30/06**
Method:	**EPA160.1** / SMWW 2540c	Batch #:	**113928**
Matrix:	Water	Analyst:	TKM
SOP#:	tds_rv 9.doc		

BATCH QC DATA

Sample	Sample Vol (mL)	DF 50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)	Spike Std Conc (mg/L)	Spike Vol.Used (mL)	Spiking Level (mg/L)	**Recovery,%**	**RPD,%**
MB	50	1	47.6759	47.6761	0.0002	ND	10					
BS	50	1	53.0704	53.0746	0.0042	84.0	10	1,000	5	100	**84**	
BSD	50	1	50.3961	50.4002	0.0041	82.0	10	1,000	5	100	**82**	**2.41**
187016-001	5	10	26.4656	26.5335	0.0679	13,580.0	100					
SDUP	5	10	26.0440	26.1144	0.0704	14,080.0	100					**3.62**

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	79 - 121
MS/ MSD	20	69 - 131

SAMPLE DATA

Sample	Sample Vol (mL)	DF 50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)
187017-001	10	5	27.4846	27.5785	0.0939	9,390	50
187017-002	10	5	27.4268	27.5216	0.0948	9,480	50
187017-003	5	10	27.4528	27.5577	0.1049	20,980	100
187017-004	5	10	27.1983	27.2868	0.0885	17,700	100
187017-007	20	2.5	26.1387	26.1557	0.0170	850	25
187065-001	20	2.5	26.2531	26.2679	0.0148	740	25
187065-002	20	2.5	25.5310	25.5393	0.0083	415	25
187065-003	20	2.5	25.9965	26.0081	0.0116	580	25
187065-004	20	2.5	24.4616	24.4782	0.0166	830	25
187065-005	20	2.5	27.8966	27.9078	0.0112	560	25
187065-006	20	2.5	26.9222	26.9318	0.0096	480	25
187065-012	10	5	27.6087	27.6342	0.0255	2,550	50
187065-013	10	5	24.9209	24.9455	0.0246	2,460	50
187065-014	20	2.5	24.4279	24.4379	0.0100	500	25
187065-015	20	2.5	27.6593	27.6747	0.0154	770	25
187065-016	20	2.5	25.4953	25.5106	0.0153	765	25
187065-017	20	2.5	29.0796	29.0973	0.0177	885	25

TDS (Total Dissolved Solids)
EPA 160.1 / SMWW 2540C

Curtis & Tompkins, Ltd.

LIMS Batch #: 113928

Prep Date: 5/30/06
Prep Time: 14:50

Benchbook#: **BK2254**
Page: **27**

Filter Mfg/ Lot#: 934AH G1848457
Spike WS#: S2182

Spike WS Conc (mg/L): 1000
Spike Vol Added (mL): 5

	In	Out	In-2	Out-2	In-3	Out-3
Date:	5/30/06	5/31/06	5/31/06	6/01/06		
Time:	15:40	12:50	17:00	10:15		
Temp (C):	97°C	181°C	182°C	180°C		

Sample # / Letter	EC Value (µS/cm)	Sample Vol. Filtered (mL)	Dish ID	Dish Wt (g)	1st Dry Wt.(g)	2nd Dry Wt (g)*	3rd Dry Wt (g)*
MB		50	LMS	47.6759	47.6761	47.6760	
BS		50	IL2	53.0704	53.0746	53.0746	
BSD		50	SIR	50.3961	50.4002	50.4004	
187016-001B	15,500	5	KF	26.4656	26.5335	26.5330	
187016-1SDUP	"	5	IKB	26.0440	26.1144	26.1142	
187017-001E	7300	10	FIB	27.4846	27.5785	27.5789	
-002E	7500	10	KK	27.4268	27.5216	27.5218	
-003E	21,200	5	MK	27.4528	27.5577	27.5578	
-004E	16,000	5	RRS	27.1983	27.2868	27.2863	
-007E	1,020	20	LL	26.1387	26.1557	26.1555	
187065-001I	964		13	26.2531	26.2679	26.2678	
-002F	642		SJ	25.5310	25.5393	25.5395	
-003F	1016		KS	25.9965	26.0081	26.0078	
-004I	1071		LSM	24.4616	24.4782	24.4786	
-005I	722		MM	27.8966	27.9078	27.9081	
-006I	641		14	26.9222	26.9318	26.9317	
-012H	3190	10	LM	27.6087	27.6342	27.6345	
-013H	3180	10	ETH	24.9209	24.9455	24.9454	
-014I	1099	20	SH	24.4279	24.4379	24.4374	
-015F	1114		AMT	27.6593	27.6747	27.6748	
-016F	1109		18	25.4953	25.5106	25.5104	
-017F	1131		LM*	29.0796	29.0973	29.0976	

* Constant weight must be within 0.0005 from previous reading.

Jean K Morrison 6/01/06
Analyst / Date

RSCiffa 6/1/06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 113928
Date Started: 30-MAY-2006
Batched by : Teresa Morrison

Analysis : TDS
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
187016-001			Acme Fill Corp.	Water	TDS	06-JUN-2006
187017-001			MWH	Water	TDS	31-MAY-2006
187017-002			MWH	Water	TDS	31-MAY-2006
187017-003			MWH	Water	TDS	31-MAY-2006
187017-004			MWH	Water	TDS	31-MAY-2006
187017-007			MWH	Water	TDS	31-MAY-2006
187065-001			Treadwell & Rollo	Water	TDS	07-JUN-2006
187065-002			Treadwell & Rollo	Water	TDS	07-JUN-2006
187065-003			Treadwell & Rollo	Water	TDS	07-JUN-2006
187065-004			Treadwell & Rollo	Water	TDS	07-JUN-2006
187065-005			Treadwell & Rollo	Water	TDS	07-JUN-2006
187065-006			Treadwell & Rollo	Water	TDS	07-JUN-2006
187065-012			Treadwell & Rollo	Water	TDS	07-JUN-2006
187065-013			Treadwell & Rollo	Water	TDS	07-JUN-2006
187065-014			Treadwell & Rollo	Water	TDS	07-JUN-2006
187065-015			Treadwell & Rollo	Water	TDS	07-JUN-2006
187065-016			Treadwell & Rollo	Water	TDS	07-JUN-2006
187065-017			Treadwell & Rollo	Water	TDS	07-JUN-2006
QC341991	BLANK			Water	TDS	
QC341992	BS			Water	TDS	
QC341993	BSD			Water	TDS	
QC341994	SDUP	of 187016-001		Water	TDS	

AMENDED

METALS

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET06
Calnum : 66236847001
Units : ug/L

Date : 13-JUN-2006 12:07
X Axis : R

Reviewer: ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	f1310007	66236847007		13-JUN-2006 12:14	S3607
L2	f1310008	66236847008		13-JUN-2006 12:21	S3609
L3	f1310009	66236847009		13-JUN-2006 12:29	S3610
L4	f1310010	66236847010		13-JUN-2006 12:36	S3611
L5	f1310011	66236847011		13-JUN-2006 12:43	S3605
L6	f1310012	66236847012		13-JUN-2006 12:50	S3606

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum	A	23.980	7.1126	3.4076	0.7417	0.5548	0.5367	BLNK	-0.8536	1.85880		6.0557	0.998	0.995	
Antimony	A	0.3027	0.2947	0.2839	0.2862	0.2922	0.2942	BLNK	-0.0020	3.40383		0.2923	1.000	0.995	
Barium	A	0.1786	0.0953	0.0844	0.0774	0.0756	0.0774	BLNK	-0.0192	12.9803		0.0981	1.000	0.995	
Beryllium	A	0.2293	0.2564	0.2427	0.2424	0.2382	0.2370	BLNK	-0.0010	4.21526		0.2410	1.000	0.995	
Cadmium	A	0.0941	0.0885	0.0862	0.0837	0.0826	0.0828	BLNK	-0.0121	12.0790		0.0863	1.000	0.995	
Calcium	A	0.0642	0.0304	0.0251	0.0201	0.0187	0.0189	BLNK	-13.860	52.9488		0.0296	1.000	0.995	
Lead	A	0.4381	0.3841	0.3691	0.3577	0.3365	0.3315	BLNK	-0.0055	3.00684		0.3695	1.000	0.995	
Magnesium	A	0.5003	0.4726	0.4573	0.4259	0.4077	0.4158	BLNK	-0.3015	2.41425		0.4466	1.000	0.995	
Molybdenum	A	0.2508	0.2287	0.2161	0.2009	0.1980	0.2127	BLNK	-0.0090	4.76796		0.2179	0.999	0.995	
Potassium	A	4.3820	1.3709	0.9858	0.6241	0.5709	0.5773	BLNK	-61.965	1.74232		1.4185	1.000	0.995	
Silver	A	0.3824	0.3630	0.3523	0.3438	0.3483	0.3458	BLNK	-0.0057	2.88803		0.3559	1.000	0.995	
Thallium	A	0.8283	0.8186	0.8129	0.8082	0.8111	0.8361	BLNK	-0.0101	1.20339		0.8192	1.000	0.995	
Arsenic	E	0.6758	0.5851	0.5446	0.5318	0.5188	0.5259	BLNK	-0.0310	1.90704		0.5637	1.000	0.995	
Chromium	E	7.8882	2.9579	2.6580	2.4772	2.4179	2.3922	BLNK	-0.1184	0.41741		3.4652	1.000	0.995	
Cobalt	E	4.0252	3.6984	3.5512	3.5156	3.3769	3.2996	BLNK	-0.0102	0.30164		3.5778	1.000	0.995	
Copper	E	24.750	8.4219	6.2061	5.1216	4.7483	4.7537	BLNK	-0.1968	0.21063		9.0003	1.000	0.995	
Manganese	E	2.2672	1.7440	1.5822	1.5428	1.4894	1.4539	BLNK	-0.0176	0.68447		1.6799	1.000	0.995	
Nickel	E	2.0109	1.1306	0.9841	0.9173	0.8677	0.8428	BLNK	-0.0873	1.17995		1.1256	1.000	0.995	
Sodium	E	2.9129	1.0537	0.7745	0.5406	0.5099	0.5107	BLNK	-40.220	1.96333		1.0504	1.000	0.995	
Vanadium	E	5.1700	2.4841	2.1841	1.9164	1.8798	1.8799	BLNK	-0.1749	0.53251		2.5857	1.000	0.995	
Zinc	E	15.340	2.9371	2.2636	1.1173	0.9631	0.9561	BLNK	-0.7126	1.04863		3.9296	1.000	0.995	
Iron	H	0.9882	0.8196	0.7872	0.6847	0.6408	0.6495	BLNK	-0.7397	1.54365		0.7617	1.000	0.995	
Selenium	H	0.1041	0.1197	0.1189	0.1180	0.1121	0.1128	BLNK	-0.0135	8.87448		0.1143	1.000	0.995	

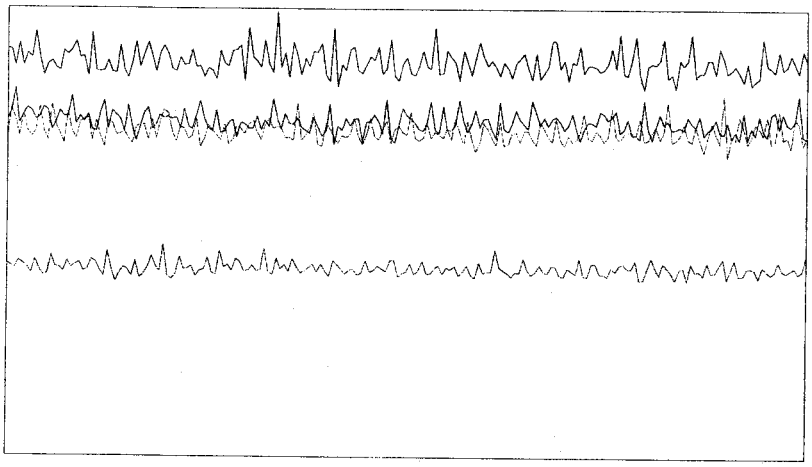
487

Instrument amount = a0 + response * a1 + response^2 * a2; BLNK=Y=aX+[blank]

66236847001

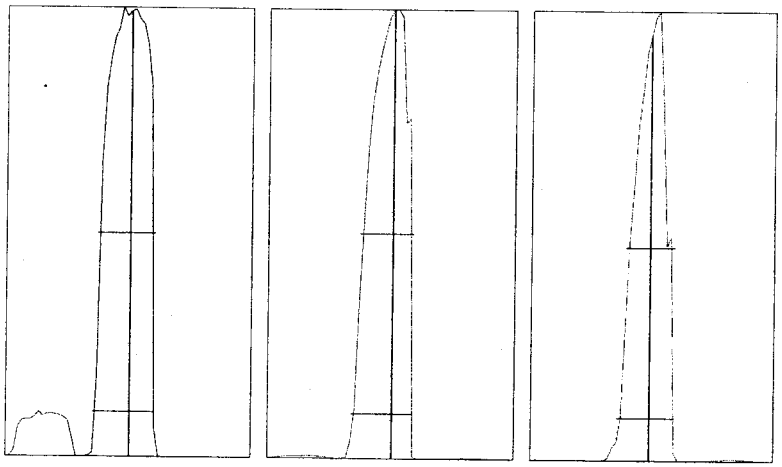
Tune Report

Tune File : norm.u
Comment :



Integration Time:	0.1000 sec	
Sampling Period:	0.7200 sec	
n:	200	
Oxide:	156/140	0.968%
Doubly Charged:	70/140	1.815%

m/z	Range	Count	Mean	RSD%	Background
7	20,000	17693.0	17612.8	3.34	0.20
59	50,000	22789.0	21064.7	3.39	0.40
89	50,000	36011.0	36239.4	3.20	0.60
205	20,000	14278.0	14923.3	3.06	1.30
156/140	2	1.046%	0.980%	7.47	
70/140	5	1.743%	1.717%	7.24	



m/z:	7	89	205
Height:	17,701	37,044	14,889
Axis:	7.05	89.05	205.00
W-50%:	0.70	0.65	0.60
W-10%:	0.7500	0.7500	0.700

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Generated : Jun 13, 2006 11:00:39
Printed : Jun 13, 2006 11:00:45

Tune Report

Tune File : norm.u
Comment :

Tuning Parameters

===Plasma Condition===			===Ion Lenses===			===Q-Pole Parameters===		
RF Power	:	1500 W	Extract 1	:	0 V	AMU Gain	:	132
RF Matching	:	1.72 V	Extract 2	:	-110 V	AMU Offset	:	125
Smpl Depth	:	8 mm	Omega Bias-ce	:	-30 V	Axis Gain	:	1.0001
Torch-H	:	0.4 mm	Omega Lens-ce	:	1.6 V	Axis Offset	:	0.03
Torch-V	:	0.5 mm	Cell Entrance	:	-30 V	QP Bias	:	-3 V
Carrier Gas	:	1.01 L/min	QP Focus	:	5 V			
Makeup Gas	:	0 L/min	Cell Exit	:	-30 V	===Detector Parameters===		
Optional Gas	:	--- %				Discriminator	:	8 mV
Nebulizer Pump	:	0.1 rps	===Octopole Parameters===			Analog HV	:	1650 V
Sample Pump	:	0.11 rps	OctP RF	:	150 V	Pulse HV	:	1100 V
S/C Temp	:	12 degC	OctP Bias	:	-5 V			

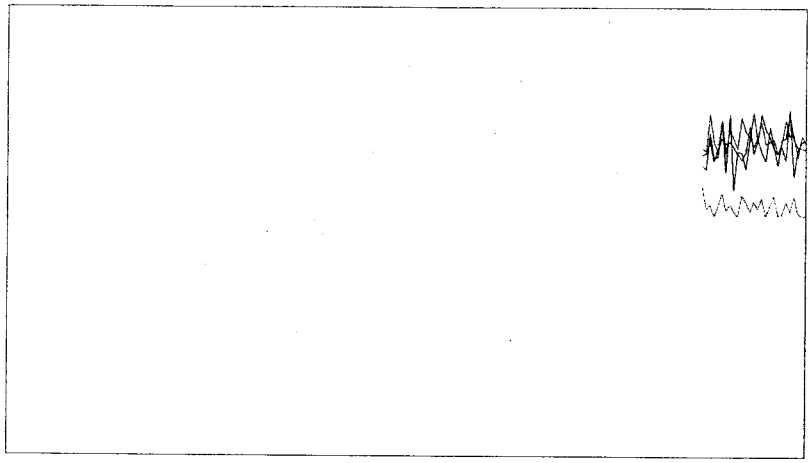
===Reaction Cell===

Reaction Mode	:	OFF						
H2 Gas	:	0 mL/min	He Gas	:	0 mL/min	Optional Gas	:	--- %

Generated : Jun 13, 2006 11:00:39
Printed : Jun 13, 2006 11:00:46

Sensitivity

Tune File : h2.U



Integration Time: 0.1000 sec
Sampling Period: 0.6100 sec
n: 27

m/z	Range	Count	Mean	RSD%
59	5,000	3420.0	3462.1	3.67
89	20,000	13943.0	14186.6	3.68
140	10,000	5389.0	5587.4	3.40
57/56	5	3.524%	3.457%	6.68
78	20	0.0	0.3	205.40

Tuning Parameters

===Plasma Condition===

RF Power	:	1500 W
RF Matching	:	1.72 V
Smpl Depth	:	8 mm
Torch-H	:	0.4 mm
Torch-V	:	0.5 mm
Carrier Gas	:	1.01 L/min
Makeup Gas	:	0 L/min
Optional Gas	:	--- %
Nebulizer Pump	:	0.1 rps
Sample Pump	:	0.11 rps
S/C Temp	:	12 degC

===Ion Lenses===

Extract 1	:	0 V
Extract 2	:	-110 V
Omega Bias-ce	:	-30 V
Omega Lens-ce	:	1.6 V
Cell Entrance	:	-30 V
QP Focus	:	-8 V
Cell Exit	:	-40 V

===Octopole Parameters===

OctP RF	:	150 V
OctP Bias	:	-18 V

===Q-Pole Parameters===

AMU Gain	:	132
AMU Offset	:	125
Axis Gain	:	1.0001
Axis Offset	:	0.03
QP Bias	:	-16 V

===Detector Parameters===

Discriminator	:	8 mV
Analog HV	:	1650 V
Pulse HV	:	1100 V

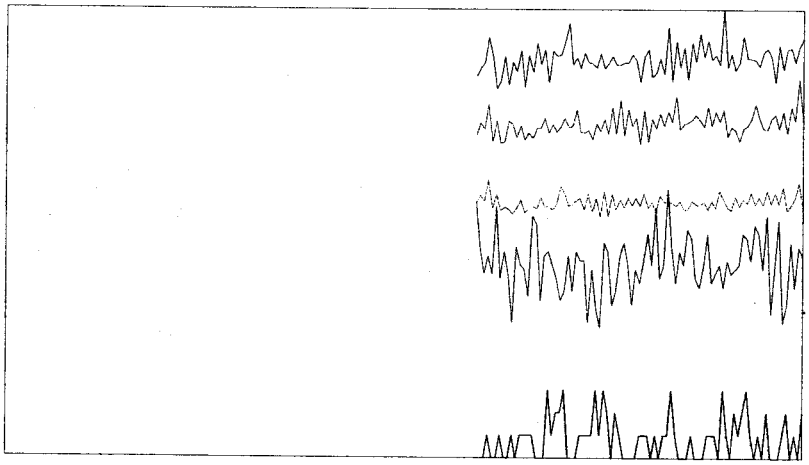
===Reaction Cell===

Reaction Mode	:	ON
H2 Gas	:	3.4 mL/min
He Gas	:	0 mL/min
Optional Gas	:	--- %

Generated : Jun 13, 2006 11:03:16
Printed : Jun 13, 2006 11:03:22

Sensitivity

Tune File : he.U



Integration Time: 0.1000 sec
Sampling Period: 0.5100 sec
n: 83

m/z	Range	Count	Mean	RSD%
59	5,000	4669.0	4439.7	3.74
89	5,000	3735.0	3721.2	3.52
140	10,000	5496.0	5698.0	2.94
51	100	45.0	43.2	15.11
75	20	2.0	0.8	110.30
51/59	2	0.964%	0.975%	15.64

Tuning Parameters

===Plasma Condition===

RF Power	:	1500 W
RF Matching	:	1.72 V
Smpl Depth	:	8 mm
Torch-H	:	0.4 mm
Torch-V	:	0.5 mm
Carrier Gas	:	1.01 L/min
Makeup Gas	:	0 L/min
Optional Gas	:	--- %
Nebulizer Pump	:	0.1 rps
Sample Pump	:	0.11 rps
S/C Temp	:	12 degC

===Ion Lenses===

Extract 1	:	0 V
Extract 2	:	-110 V
Omega Bias-ce	:	-30 V
Omega Lens-ce	:	1.6 V
Cell Entrance	:	-30 V
QP Focus	:	-10 V
Cell Exit	:	-40 V

===Octopole Parameters===

OctP RF	:	150 V
OctP Bias	:	-18 V

===Q-Pole Parameters===

AMU Gain	:	132
AMU Offset	:	125
Axis Gain	:	1.0001
Axis Offset	:	0.03
QP Bias	:	-13.9 V

===Detector Parameters===

Discriminator	:	8 mV
Analog HV	:	1650 V
Pulse HV	:	1100 V

===Reaction Cell===

Reaction Mode	:	ON						
H2 Gas	:	0 mL/min	He Gas	:	4 mL/min	Optional Gas	:	--- %

Generated : Jun 13, 2006 11:08:16
Printed : Jun 13, 2006 11:08:22

P/A Factor Tuning Report

Acquired:Jun 13 2006 11:14 am

Mass[amu]	Element	P/A Factor
6	Li	0.062586
7	(Li)	0.066200
9	Be	Sensitivity too low
23	Na	0.078895
24	Mg	0.082472
27	Al	0.085314
39	K	0.086197
44	Ca	Sensitivity too low
45	Sc	0.086176
51	V	0.087633
52	Cr	0.090209
55	Mn	0.091518
56	Fe	0.089556
59	Co	0.093905
60	Ni	Sensitivity too low
63	Cu	0.096949
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
78	Se	Sensitivity too low
89	Y	0.095722
98	Mo	Sensitivity too low
99	(Ru)	Sensitivity too low
107	Ag	0.101889
111	Cd	Sensitivity too low
115	In	0.101840
118	(In)	Sensitivity too low
121	Sb	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.104136
205	Tl	0.108212
206	(Pb)	Sensitivity too low
207	(Pb)	Sensitivity too low
208	Pb	0.108254
209	Bi	0.108367

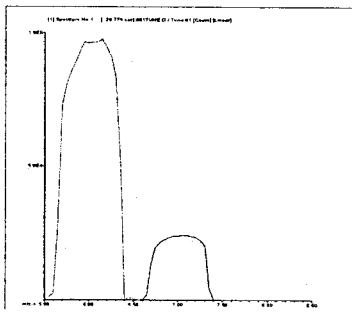
===Detector Parameters===
Discriminator: 8.0 mV
Analog HV: 1650 V
Pulse HV: 1100 V

6020 QC Tune Report

Data File:	C:\ICPCHEM\1\DATA\06F13100.B\001TUNE.D
Date Acquired:	Jun 13 2006 11:27 am
Acq. Method:	TN6020.M
Operator:	
Sample Name:	tun,s3622
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

Element	Actual	Required	Flag
7 Li	0.79	5.00	
59 Co	0.54	5.00	
115 In	0.70	5.00	
205 Tl	0.87	5.00	



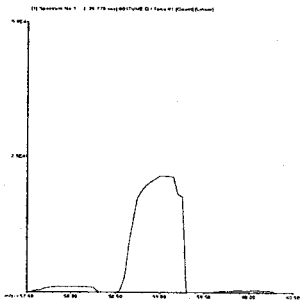
7 Li

Mass Calib.

Actual: 7.05
Required: 6.90 - 7.10
Flag:

Peak Width

Actual: 0.65
Required: 0.90
Flag:



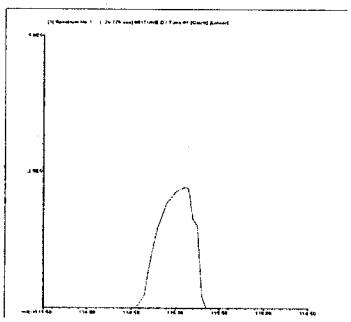
59 Co

Mass Calib.

Actual: 59.05
Required: 58.90 - 59.10
Flag:

Peak Width

Actual: 0.65
Required: 0.90
Flag:



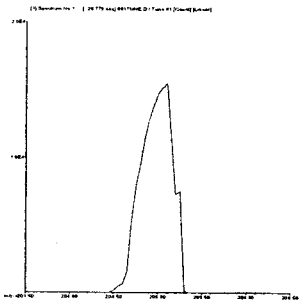
115 In

Mass Calib.

Actual:	115.05
Required:	114.90 - 115.10
Flag:	

Peak Width

Actual:	0.65
Required:	0.90
Flag:	



205 Tl

Mass Calib.

Actual:	205.00
Required:	204.90 - 205.10
Flag:	

Peak Width

Actual:	0.55
Required:	0.90
Flag:	

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06F13100.B\006CALB.D\006CALB.D#
Date Acquired:	Jun 13 2006 12:04 pm
Acq. Method:	6020.M
Operator:	
Sample Name:	calblank
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\6020.M
Calibration File:	C:\ICPCHEM\1\DATA\06D21K00.B\6020.C
Last Cal. Update:	Jun 13 2006 12:02 pm
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
6	Li	---	3	901,521.25	0.12
7	(Li)	---	3	55,876.54	1.35
9	Be	6	3	4.44	43.30
23	Na	45	2	23,368.66	1.03
24	Mg	45	3	3,228.26	1.85
27	Al	45	3	11,874.22	2.28
39	K	45	3	919,629.06	0.91
44	Ca	45	3	6,768.54	2.55
45	Sc	---	1	505,875.38	0.82
45	Sc	---	2	57,040.84	1.14
45	Sc	---	3	1,292,999.10	1.39
51	V	45	2	374.82	7.99
52	Cr	45	2	323.71	6.00
55	Mn	45	2	29.26	5.80
56	Fe	45	1	4,847.56	2.55
59	Co	45	2	38.52	4.41
60	Ni	45	2	84.45	7.33
63	Cu	72	2	510.02	4.07
65	Cu	72	2	244.45	7.65
66	Zn	72	2	371.12	4.35
72	Ge	---	1	87,862.02	0.50
72	Ge	---	2	27,302.06	0.91
72	Ge	---	3	263,182.97	0.87
75	As	72	2	8.89	33.82
78	Se	72	1	2.67	0.00
89	Y	---	1	685,844.56	0.40
89	Y	---	2	188,199.19	0.53
89	Y	---	3	1,895,801.90	0.11
98	Mo	89	3	71.26	16.83
99	(Ru)	89	3	6.67	50.00
107	Ag	115	3	72.22	23.68
111	Cd	115	3	36.67	5.25
115	In	---	1	559,028.13	0.68
115	In	---	2	194,804.16	0.43
115	In	---	3	1,824,920.60	0.59
118	(In)	---	1	184.45	4.71
118	(In)	---	2	81.85	8.83
118	(In)	---	3	570.03	5.36
121	Sb	115	3	21.11	71.20
137	Ba	159	3	61.11	20.65
159	Tb	---	3	2,071,799.50	1.35
205	Tl	209	3	115.56	1.67
206	(Pb)	209	3	25.56	66.93
207	(Pb)	159	3	4.44	43.30
208	Pb	159	3	75.56	24.30
209	Bi	---	3	690,158.38	0.53

Tune File#	1	c:\icpchem\1\7500\h2.u
Tune File#	2	c:\icpchem\1\7500\he.u
Tune File#	3	c:\icpchem\1\7500\norm.u

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F13100.B\007CALS.D\007CALS.D#
Date Acquired: Jun 13 2006 12:12 pm
Acq. Method: 6020.M
Operator:
Sample Name: s3607
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\6020.M
Calibration File: C:\ICPCHEM\1\DATA\06D21K00.B\6020.C
Last Cal. Update: Jun 13 2006 12:09 pm
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
6	Li	---	3	913433.13	0.21
7	(Li)	---	3	56496.61	0.58
9	Be	6	3	418.91	6.63
23	Na	45	2	33267.25	1.36
24	Mg	45	3	129876.47	0.42
27	Al	45	3	62249.75	0.55
39	K	45	3	1137508.50	0.55
44	Ca	45	3	16664.80	0.87
45	Sc	---	1	513387.31	0.17
45	Sc	---	2	57101.80	0.43
45	Sc	---	3	1297945.50	0.48
51	V	45	2	590.39	4.65
52	Cr	45	2	900.78	5.01
55	Mn	45	2	258.89	3.93
56	Fe	45	1	101460.92	0.69
59	Co	45	2	459.64	3.86
60	Ni	45	2	229.63	2.39
63	Cu	72	2	1351.56	1.02
65	Cu	72	2	656.32	1.41
66	Zn	72	2	837.81	2.26
72	Ge	---	1	88617.77	0.80
72	Ge	---	2	27306.85	0.88
72	Ge	---	3	263986.47	0.64
75	As	72	2	36.89	19.83
78	Se	72	1	18.44	4.17
89	Y	---	1	691286.88	0.56
89	Y	---	2	189190.09	0.45
89	Y	---	3	1887685.80	0.43
98	Mo	89	3	946.88	4.34
99	(Ru)	89	3	6.67	50.00
107	Ag	115	3	1375.68	4.75
111	Cd	115	3	338.53	4.78
115	In	---	1	558960.44	0.39
115	In	---	2	192975.86	1.12
115	In	---	3	1798835.00	0.49
118	(In)	---	1	310.38	4.37
118	(In)	---	2	139.63	13.91
118	(In)	---	3	985.63	12.21
121	Sb	115	3	1088.97	2.94
137	Ba	159	3	737.83	3.33
159	Tb	---	3	2065909.10	0.50
205	Tl	209	3	1132.32	7.36
208	Pb	159	3	1810.12	4.04
209	Bi	---	3	683811.06	1.12

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	913433	0.21	901521	101.3	80 - 120	
45	Sc	1	513387	0.17	505875	101.5	80 - 120	
45	Sc	2	57102	0.43	57041	100.1	80 - 120	
45	Sc	3	1297946	0.48	1292999	100.4	80 - 120	
72	Ge	1	88618	0.80	87862	100.9	80 - 120	
72	Ge	2	27307	0.88	27302	100.0	80 - 120	
72	Ge	3	263986	0.64	263183	100.3	80 - 120	
89	Y	1	691287	0.56	685845	100.8	80 - 120	
89	Y	2	189190	0.45	188199	100.5	80 - 120	
89	Y	3	1887686	0.43	1895802	99.6	80 - 120	
115	In	1	558960	0.39	559028	100.0	80 - 120	
115	In	2	192976	1.12	194804	99.1	80 - 120	
115	In	3	1798835	0.49	1824921	98.6	80 - 120	
159	Tb	3	2065909	0.50	2071800	99.7	80 - 120	
209	Bi	3	683811	1.12	690158	99.1	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\norm.u

ISTD Ref File : C:\ICPCHEM\1\DATA\06F13100.B\006CALB.D\006CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F13100.B\008CALS.D\008CALS.D#
Date Acquired: Jun 13 2006 12:19 pm
Acq. Method: 6020.M
Operator:
Sample Name: s3609
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\6020.M
Calibration File: C:\ICPCHEM\1\DATA\06D21K00.B\6020.C
Last Cal. Update: Jun 13 2006 12:17 pm
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
6	Li	---	3	875363.00	0.76
7	(Li)	---	3	54220.19	2.45
9	Be	6	3	0.13	3.97
23	Na	45	2	52.68	2.07
24	Mg	45	3	23.63	2.37
27	Al	45	3	3.56	2.63
39	K	45	3	68.54	2.78
44	Ca	45	3	1.52	2.80
45	Sc	---	1	503140.06	0.44
45	Sc	---	2	55671.65	1.30
45	Sc	---	3	1257281.00	2.04
51	V	45	2	1.24	1.83
52	Cr	45	2	1.48	0.95
55	Mn	45	2	0.87	1.44
56	Fe	45	1	40.98	0.29
59	Co	45	2	1.85	2.30
60	Ni	45	2	0.57	2.84
63	Cu	72	2	4.21	2.83
65	Cu	72	2	1.97	4.84
66	Zn	72	2	1.47	6.76
72	Ge	---	1	87272.78	0.70
72	Ge	---	2	26886.81	0.75
72	Ge	---	3	258350.00	0.28
75	As	72	2	0.29	5.52
78	Se	72	1	0.06	2.03
89	Y	---	1	687192.94	0.47
89	Y	---	2	186793.80	1.14
89	Y	---	3	1853460.60	0.29
98	Mo	89	3	0.11	3.04
99	(Ru)	89	3	0.00	0.29
107	Ag	115	3	0.18	4.29
111	Cd	115	3	0.04	2.15
115	In	---	1	555540.38	0.54
115	In	---	2	192052.72	0.74
115	In	---	3	1780020.00	1.33
118	(In)	---	1	289.27	2.70
118	(In)	---	2	117.78	9.85
118	(In)	---	3	1006.75	3.69
121	Sb	115	3	0.15	3.94
137	Ba	159	3	0.05	4.94
159	Tb	---	3	2038015.60	0.51
205	Tl	209	3	0.41	3.79
208	Pb	159	3	0.19	1.87
209	Bi	---	3	686292.19	1.42

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	875363	0.76	901521	97.1	80 - 120	
45	Sc	1	503140	0.44	505875	99.5	80 - 120	
45	Sc	2	55672	1.30	57041	97.6	80 - 120	
45	Sc	3	1257281	2.04	1292999	97.2	80 - 120	
72	Ge	1	87273	0.70	87862	99.3	80 - 120	
72	Ge	2	26887	0.75	27302	98.5	80 - 120	
72	Ge	3	258350	0.28	263183	98.2	80 - 120	
89	Y	1	687193	0.47	685845	100.2	80 - 120	
89	Y	2	186794	1.14	188199	99.3	80 - 120	
89	Y	3	1853461	0.29	1895802	97.8	80 - 120	
115	In	1	555540	0.54	559028	99.4	80 - 120	
115	In	2	192053	0.74	194804	98.6	80 - 120	
115	In	3	1780020	1.33	1824921	97.5	80 - 120	
159	Tb	3	2038016	0.51	2071800	98.4	80 - 120	
209	Bi	3	686292	1.42	690158	99.4	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\norm.u

ISTD Ref File : C:\ICPCHEM\1\DATA\06F13100.B\006CALB.D\006CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F13100.B\009CALS.D\009CALS.D#
Date Acquired: Jun 13 2006 12:26 pm
Acq. Method: 6020.M
Operator:
Sample Name: s3610
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\6020.M
Calibration File: C:\ICPCHEM\1\DATA\06D21K00.B\6020.C
Last Cal. Update: Jun 13 2006 12:24 pm
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
6	Li	---	3	891839.69	0.85
7	(Li)	---	3	54883.85	0.38
9	Be	6	3	0.24	3.48
23	Na	45	2	77.45	0.80
24	Mg	45	3	45.73	1.58
27	Al	45	3	3.41	1.36
39	K	45	3	98.58	1.90
44	Ca	45	3	2.51	0.73
45	Sc	---	1	489705.78	0.42
45	Sc	---	2	56829.64	0.27
45	Sc	---	3	1266840.30	1.62
51	V	45	2	2.18	2.14
52	Cr	45	2	2.66	1.73
55	Mn	45	2	1.58	1.13
56	Fe	45	1	78.72	0.18
59	Co	45	2	3.55	1.58
60	Ni	45	2	0.98	5.48
63	Cu	72	2	6.21	0.98
65	Cu	72	2	3.05	1.41
66	Zn	72	2	2.26	1.56
72	Ge	---	1	86233.70	0.46
72	Ge	---	2	27138.80	0.36
72	Ge	---	3	261150.44	0.46
75	As	72	2	0.54	3.49
78	Se	72	1	0.12	5.35
89	Y	---	1	671752.31	0.72
89	Y	---	2	189731.88	0.49
89	Y	---	3	1881939.40	1.11
98	Mo	89	3	0.22	2.26
99	(Ru)	89	3	0.00	42.38
107	Ag	115	3	0.35	1.81
111	Cd	115	3	0.09	2.80
115	In	---	1	545316.69	0.31
115	In	---	2	196367.91	1.14
115	In	---	3	1809218.50	0.56
118	(In)	---	1	310.75	3.76
118	(In)	---	2	137.78	12.98
118	(In)	---	3	1046.74	8.92
121	Sb	115	3	0.28	0.65
137	Ba	159	3	0.08	6.07
159	Tb	---	3	2082431.00	1.15
205	Tl	209	3	0.81	3.09
208	Pb	159	3	0.37	1.09
209	Bi	---	3	701348.31	1.28

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	891840	0.85	901521	98.9	80 - 120	
45	Sc	1	489706	0.42	505875	96.8	80 - 120	
45	Sc	2	56830	0.27	57041	99.6	80 - 120	
45	Sc	3	1266840	1.62	1292999	98.0	80 - 120	
72	Ge	1	86234	0.46	87862	98.1	80 - 120	
72	Ge	2	27139	0.36	27302	99.4	80 - 120	
72	Ge	3	261150	0.46	263183	99.2	80 - 120	
89	Y	1	671752	0.72	685845	97.9	80 - 120	
89	Y	2	189732	0.49	188199	100.8	80 - 120	
89	Y	3	1881939	1.11	1895802	99.3	80 - 120	
115	In	1	545317	0.31	559028	97.5	80 - 120	
115	In	2	196368	1.14	194804	100.8	80 - 120	
115	In	3	1809219	0.56	1824921	99.1	80 - 120	
159	Tb	3	2082431	1.15	2071800	100.5	80 - 120	
209	Bi	3	701348	1.28	690158	101.6	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\norm.u

ISTD Ref File : C:\ICPCHEM\1\DATA\06F13100.B\006CALB.D\006CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F13100.B\010CALS.D\010CALS.D#
Date Acquired: Jun 13 2006 12:34 pm
Acq. Method: 6020.M
Operator:
Sample Name: s3611
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\6020.M
Calibration File: C:\ICPCHEM\1\DATA\06D21K00.B\6020.C
Last Cal. Update: Jun 13 2006 12:31 pm
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
6	Li	---	3	902602.50	1.48
7	(Li)	---	3	54983.81	0.41
9	Be	6	3	2.42	2.35
23	Na	45	2	540.61	1.10
24	Mg	45	3	425.88	0.76
27	Al	45	3	7.42	1.50
39	K	45	3	624.14	0.86
44	Ca	45	3	20.11	0.77
45	Sc	---	1	497065.94	0.49
45	Sc	---	2	56444.00	0.99
45	Sc	---	3	1284774.90	0.65
51	V	45	2	19.16	0.28
52	Cr	45	2	24.77	0.97
55	Mn	45	2	15.43	1.15
56	Fe	45	1	684.67	0.26
59	Co	45	2	35.16	0.91
60	Ni	45	2	9.17	1.36
63	Cu	72	2	51.22	1.53
65	Cu	72	2	25.14	0.22
66	Zn	72	2	11.17	1.30
72	Ge	---	1	86657.44	0.23
72	Ge	---	2	26914.65	1.19
72	Ge	---	3	264011.16	0.92
75	As	72	2	5.32	0.42
78	Se	72	1	1.18	5.08
89	Y	---	1	677822.81	0.46
89	Y	---	2	187878.28	0.99
89	Y	---	3	1906497.90	0.86
98	Mo	89	3	2.01	0.45
99	(Ru)	89	3	0.00	57.66
107	Ag	115	3	3.44	1.79
111	Cd	115	3	0.84	2.33
115	In	---	1	549047.31	0.48
115	In	---	2	192748.25	0.65
115	In	---	3	1823825.40	1.60
118	(In)	---	1	419.27	6.47
118	(In)	---	2	184.45	13.90
118	(In)	---	3	1462.35	2.87
121	Sb	115	3	2.86	2.03
137	Ba	159	3	0.77	3.02
159	Tb	---	3	2105397.50	1.23
205	Tl	209	3	8.08	0.63
208	Pb	159	3	3.58	0.93
209	Bi	---	3	701192.00	1.44

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	902603	1.48	901521	100.1	80 - 120	
45	Sc	1	497066	0.49	505875	98.3	80 - 120	
45	Sc	2	56444	0.99	57041	99.0	80 - 120	
45	Sc	3	1284775	0.65	1292999	99.4	80 - 120	
72	Ge	1	86657	0.23	87862	98.6	80 - 120	
72	Ge	2	26915	1.19	27302	98.6	80 - 120	
72	Ge	3	264011	0.92	263183	100.3	80 - 120	
89	Y	1	677823	0.46	685845	98.8	80 - 120	
89	Y	2	187878	0.99	188199	99.8	80 - 120	
89	Y	3	1906498	0.86	1895802	100.6	80 - 120	
115	In	1	549047	0.48	559028	98.2	80 - 120	
115	In	2	192748	0.65	194804	98.9	80 - 120	
115	In	3	1823825	1.60	1824921	99.9	80 - 120	
159	Tb	3	2105398	1.23	2071800	101.6	80 - 120	
209	Bi	3	701192	1.44	690158	101.6	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\norm.u

ISTD Ref File : C:\ICPCHEM\1\DATA\06F13100.B\006CALB.D\006CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F13100.B\011CALS.D\011CALS.D#
Date Acquired: Jun 13 2006 12:41 pm
Acq. Method: 6020.M
Operator:
Sample Name: s3605
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\6020.M
Calibration File: C:\ICPCHEM\1\DATA\06D21K00.B\6020.C
Last Cal. Update: Jun 13 2006 12:39 pm
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
6	Li	---	3	933606.56	1.15
7	(Li)	---	3	57157.25	1.23
9	Be	6	3	23.82	1.27
23	Na	45	2	5098.94	1.49
24	Mg	45	3	4077.49	2.33
27	Al	45	3	55.48	2.60
39	K	45	3	5709.24	2.58
44	Ca	45	3	187.14	3.39
45	Sc	---	1	503180.19	1.02
45	Sc	---	2	55281.38	0.96
45	Sc	---	3	1339918.10	2.77
51	V	45	2	187.98	1.15
52	Cr	45	2	241.79	0.81
55	Mn	45	2	148.94	0.69
56	Fe	45	1	6408.43	0.72
59	Co	45	2	337.69	1.32
60	Ni	45	2	86.77	0.86
63	Cu	72	2	474.83	0.87
65	Cu	72	2	232.20	1.26
66	Zn	72	2	96.31	1.15
72	Ge	---	1	86350.03	0.74
72	Ge	---	2	26153.22	0.80
72	Ge	---	3	266353.50	1.86
75	As	72	2	51.88	1.26
78	Se	72	1	11.21	0.52
89	Y	---	1	669063.56	0.20
89	Y	---	2	178948.19	0.59
89	Y	---	3	1908018.30	2.14
98	Mo	89	3	19.80	2.00
99	(Ru)	89	3	0.00	68.23
107	Ag	115	3	34.83	1.85
111	Cd	115	3	8.26	1.54
115	In	---	1	519292.25	0.90
115	In	---	2	175464.81	1.07
115	In	---	3	1779320.60	2.17
118	(In)	---	1	1636.41	1.97
118	(In)	---	2	662.25	5.38
118	(In)	---	3	5541.34	0.65
121	Sb	115	3	29.22	2.64
137	Ba	159	3	7.56	2.03
159	Tb	---	3	2069010.00	2.73
205	Tl	209	3	81.11	0.85
208	Pb	159	3	33.65	2.42
209	Bi	---	3	657139.19	2.08

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	933607	1.15	901521	103.6	80 - 120	
45	Sc	1	503180	1.02	505875	99.5	80 - 120	
45	Sc	2	55281	0.96	57041	96.9	80 - 120	
45	Sc	3	1339918	2.77	1292999	103.6	80 - 120	
72	Ge	1	86350	0.74	87862	98.3	80 - 120	
72	Ge	2	26153	0.80	27302	95.8	80 - 120	
72	Ge	3	266354	1.86	263183	101.2	80 - 120	
89	Y	1	669064	0.20	685845	97.6	80 - 120	
89	Y	2	178948	0.59	188199	95.1	80 - 120	
89	Y	3	1908018	2.14	1895802	100.6	80 - 120	
115	In	1	519292	0.90	559028	92.9	80 - 120	
115	In	2	175465	1.07	194804	90.1	80 - 120	
115	In	3	1779321	2.17	1824921	97.5	80 - 120	
159	Tb	3	2069010	2.73	2071800	99.9	80 - 120	
209	Bi	3	657139	2.08	690158	95.2	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\norm.u

ISTD Ref File : C:\ICPCHEM\1\DATA\06F13100.B\006CALB.D\006CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

500

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F13100.B\012CALS.D\012CALS.D#
Date Acquired: Jun 13 2006 12:48 pm
Acq. Method: 6020.M
Operator:
Sample Name: s3606
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\6020.M
Calibration File: C:\ICPCHEM\1\DATA\06D21K00.B\6020.C
Last Cal. Update: Jun 13 2006 12:46 pm
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
6	Li	---	3	929186.56	0.42
7	(Li)	---	3	57113.56	0.48
9	Be	6	3	47.39	0.90
23	Na	45	2	10214.14	0.37
24	Mg	45	3	8316.04	0.97
27	Al	45	3	107.34	0.43
39	K	45	3	11546.65	0.56
44	Ca	45	3	378.93	0.71
45	Sc	---	1	496722.91	1.73
45	Sc	---	2	56332.20	1.17
45	Sc	---	3	1343544.10	0.54
51	V	45	2	375.98	1.03
52	Cr	45	2	478.44	1.01
55	Mn	45	2	290.77	1.22
56	Fe	45	1	12989.95	1.22
59	Co	45	2	659.92	1.24
60	Ni	45	2	168.57	1.46
63	Cu	72	2	950.74	0.55
65	Cu	72	2	464.16	1.19
66	Zn	72	2	191.22	1.07
72	Ge	---	1	84471.03	1.99
72	Ge	---	2	25691.61	1.26
72	Ge	---	3	269076.47	0.55
75	As	72	2	105.18	0.82
78	Se	72	1	22.57	1.38
89	Y	---	1	648307.38	1.22
89	Y	---	2	175816.19	1.18
89	Y	---	3	1897616.30	0.21
98	Mo	89	3	42.54	0.83
99	(Ru)	89	3	0.00	24.83
107	Ag	115	3	69.15	0.68
111	Cd	115	3	16.57	0.59
115	In	---	1	492180.25	1.21
115	In	---	2	166023.84	1.78
115	In	---	3	1764615.40	0.86
118	(In)	---	1	303.71	13.30
118	(In)	---	2	122.97	14.30
118	(In)	---	3	1072.31	3.68
121	Sb	115	3	58.84	0.87
137	Ba	159	3	15.48	0.70
159	Tb	---	3	2033381.60	1.14
205	Tl	209	3	167.21	0.06
208	Pb	159	3	66.31	0.82
209	Bi	---	3	609204.69	0.79

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	929187	0.42	901521	103.1	80 - 120	
45	Sc	1	496723	1.73	505875	98.2	80 - 120	
45	Sc	2	56332	1.17	57041	98.8	80 - 120	
45	Sc	3	1343544	0.54	1292999	103.9	80 - 120	
72	Ge	1	84471	1.99	87862	96.1	80 - 120	
72	Ge	2	25692	1.26	27302	94.1	80 - 120	
72	Ge	3	269076	0.55	263183	102.2	80 - 120	
89	Y	1	648307	1.22	685845	94.5	80 - 120	
89	Y	2	175816	1.18	188199	93.4	80 - 120	
89	Y	3	1897616	0.21	1895802	100.1	80 - 120	
115	In	1	492180	1.21	559028	88.0	80 - 120	
115	In	2	166024	1.78	194804	85.2	80 - 120	
115	In	3	1764615	0.86	1824921	96.7	80 - 120	
159	Tb	3	2033382	1.14	2071800	98.1	80 - 120	
209	Bi	3	609205	0.79	690158	88.3	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\norm.u

ISTD Ref File : C:\ICPCHEM\1\DATA\06F13100.B\006CALB.D\006CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Step	Mass	Element	r	a	b(blank)	DL	BEC	Unit
3	6	Li	0.0000	---	---	---	---	
3	9	Be	1.0000	2.372E-01	2.466E-04	1.354E-03	1.039E-03	ppb
2	23	Na	1.0000	5.093E-01	20.49	1.807	40.22	ppb
3	24	Mg	1.0000	4.142E-01	1.249E-01	2.913E-02	3.015E-01	ppb
3	27	Al	0.9997	5.380E-01	4.592E-01	6.523E-02	8.536E-01	ppb
3	39	K	1.0000	5.739E-01	35.56	2.026	61.96	ppb
3	44	Ca	1.0000	1.889E-02	2.618E-01	1.158	13.86	ppb
1	45	Sc	0.0000	---	---	---	---	
2	45	Sc	0.0000	---	---	---	---	
3	45	Sc	0.0000	---	---	---	---	
2	51	V	1.0000	1.878	3.284E-01	3.605E-02	1.749E-01	ppb
2	52	Cr	1.0000	2.396	2.837E-01	1.836E-02	1.184E-01	ppb
2	55	Mn	0.9999	1.461	2.564E-02	2.823E-03	1.755E-02	ppb
1	56	Fe	1.0000	6.478E-01	4.792E-01	7.506E-02	7.397E-01	ppb
2	59	Co	0.9999	3.315	3.377E-02	1.329E-03	1.018E-02	ppb
2	60	Ni	0.9999	8.475E-01	7.399E-02	1.625E-02	8.730E-02	ppb
2	63	Cu	1.0000	4.748	9.343E-01	2.922E-02	1.968E-01	ppb
2	65	Cu	1.0000	2.319	4.475E-01	3.932E-02	1.930E-01	ppb
2	66	Zn	1.0000	9.536E-01	6.795E-01	7.749E-02	7.126E-01	ppb
1	72	Ge	0.0000	---	---	---	---	
2	72	Ge	0.0000	---	---	---	---	
3	72	Ge	0.0000	---	---	---	---	
2	75	As	1.0000	5.244E-01	1.625E-02	3.085E-02	3.099E-02	ppb
1	78	Se	1.0000	1.127E-01	1.518E-03	2.014E-04	1.347E-02	ppb
1	89	Y	0.0000	---	---	---	---	
2	89	Y	0.0000	---	---	---	---	
3	89	Y	0.0000	---	---	---	---	
3	98	Mo	0.9995	2.097E-01	1.880E-03	4.549E-03	8.962E-03	ppb
3	99	(Ru)	0.9616	2.121E-06	1.758E-04	124.1	82.89	ppb
3	107	Ag	1.0000	3.463E-01	1.977E-03	3.971E-03	5.710E-03	ppb
3	111	Cd	1.0000	8.279E-02	1.005E-03	1.994E-03	1.214E-02	ppb
1	115	In	0.0000	---	---	---	---	
2	115	In	0.0000	---	---	---	---	
3	115	In	0.0000	---	---	---	---	
3	121	Sb	1.0000	2.938E-01	5.781E-04	4.184E-03	1.968E-03	ppb
3	137	Ba	0.9999	7.704E-02	1.477E-03	1.244E-02	1.917E-02	ppb
3	159	Tb	0.0000	---	---	---	---	
3	205	Tl	0.9999	8.310E-01	8.372E-03	3.701E-04	1.007E-02	ppb
3	206	(Pb)	1.0000	2.710E-01	1.848E-03	1.368E-02	6.820E-03	ppb
3	207	(Pb)	1.0000	7.153E-02	1.070E-04	1.896E-03	1.496E-03	ppb
3	208	Pb	1.0000	3.326E-01	1.827E-03	4.215E-03	5.495E-03	ppb
3	209	Bi	0.0000	---	---	---	---	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66236847013 File : f1310013 Time : 13-JUN-2006 12:58
Cal : 66236847001 Caldate: 13-JUN-2006
Standards: S3601

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	A	6.0557	0.5487	100.0	101.1	ug/L	1	10	
Antimony	A	0.2923	0.2875	100.0	97.84	ug/L	-2	10	
Barium	A	0.0981	0.0762	100.0	98.87	ug/L	-1	10	
Beryllium	A	0.2410	0.2441	100.0	102.9	ug/L	3	10	
Cadmium	A	0.0863	0.0818	100.0	98.81	ug/L	-1	10	
Calcium	A	0.0296	0.0187	10000	9898	ug/L	-1	10	
Lead	A	0.3695	0.3302	100.0	99.29	ug/L	-1	10	
Magnesium	A	0.4466	0.4077	10000	9842	ug/L	-2	10	
Molybdenum	A	0.2179	0.1982	100.0	94.51	ug/L	-5	10	
Potassium	A	1.4185	0.5688	10000	9848	ug/L	-2	10	
Silver	A	0.3559	0.3452	100.0	99.70	ug/L	0	10	
Thallium	A	0.8192	0.8438	50.00	50.76	ug/L	2	10	
Arsenic	E	0.5637	0.5145	100.0	98.08	ug/L	-2	10	
Chromium	E	3.4652	2.3757	100.0	99.05	ug/L	-1	10	
Cobalt	E	3.5778	3.2935	100.0	99.33	ug/L	-1	10	
Copper	E	9.0003	4.6506	100.0	97.76	ug/L	-2	10	
Manganese	E	1.6799	1.4649	100.0	100.2	ug/L	0	10	
Nickel	E	1.1256	0.8452	100.0	99.64	ug/L	0	10	
Sodium	E	1.0504	0.4999	10000	9775	ug/L	-2	10	
Vanadium	E	2.5857	1.8458	100.0	98.12	ug/L	-2	10	
Zinc	E	3.9296	0.9431	100.0	98.19	ug/L	-2	10	
Iron	H	0.7617	0.6436	10000	9934	ug/L	-1	10	
Selenium	H	0.1143	0.1112	100.0	98.71	ug/L	-1	10	

ISTD (ICALBLK f1310006)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	901521	934473	3.66
Scandium	A	1292999	1365771	5.63
Scandium	E	57041	59157	3.71
Scandium	H	505875	514893	1.78
Germanium	H	87862	88474	0.70
Germanium	E	27302	27782	1.76
Indium	A	1824921	1810864	-0.77
Bismuth	A	690158	633499	-8.21
Yttrium	A	1895802	1951245	2.92
Terbium	A	2071800	2043388	-1.37

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66236847033 File : f1310033 Time : 13-JUN-2006 15:28
Cal : 66236847001 Caldate: 13-JUN-2006
Standards: S3602, S3310

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	6.0557	0.5753	100.0	106.1	ug/L	6	10	
Antimony	A	0.2923	0.2852	100.0	97.08	ug/L	-3	10	
Barium	A	0.0981	0.0743	100.0	96.46	ug/L	-4	10	
Beryllium	A	0.2410	0.2477	100.0	104.4	ug/L	4	10	
Cadmium	A	0.0863	0.0800	100.0	96.63	ug/L	-3	10	
Calcium	A	0.0296	0.0185	10000	9783	ug/L	-2	10	
Lead	A	0.3695	0.3320	100.0	99.83	ug/L	0	10	
Magnesium	A	0.4466	0.3858	10000	9314	ug/L	-7	10	
Molybdenum	A	0.2179	0.1941	100.0	92.54	ug/L	-7	10	
Potassium	A	1.4185	0.5596	10000	9688	ug/L	-3	10	
Silver	A	0.3559	0.3410	100.0	98.47	ug/L	-2	10	
Thallium	A	0.8192	0.8240	50.00	49.57	ug/L	-1	10	
Arsenic	E	0.5637	0.5168	100.0	98.52	ug/L	-1	10	
Chromium	E	3.4652	2.3720	100.0	98.89	ug/L	-1	10	
Cobalt	E	3.5778	3.3108	100.0	99.85	ug/L	0	10	
Copper	E	9.0003	4.5901	100.0	96.49	ug/L	-4	10	
Manganese	E	1.6799	1.4672	100.0	100.4	ug/L	0	10	
Nickel	E	1.1256	0.8446	100.0	99.57	ug/L	0	10	
Sodium	E	1.0504	0.4775	10000	9334	ug/L	-7	10	
Vanadium	E	2.5857	1.8432	100.0	97.98	ug/L	-2	10	
Zinc	E	3.9296	0.9232	100.0	96.09	ug/L	-4	10	
Iron	H	0.7617	0.6481	10000	10000	ug/L	0	10	
Selenium	H	0.1143	0.1107	100.0	98.22	ug/L	-2	10	

ISTD (ICALBLK f1310006)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	901521	837252	-7.13
Scandium	A	1292999	1356630	4.92
Scandium	E	57041	57732	1.21
Scandium	H	505875	499761	-1.21
Germanium	H	87862	87867	0.01
Germanium	E	27302	27592	1.06
Indium	A	1824921	1849270	1.33
Bismuth	A	690158	671649	-2.68
Yttrium	A	1895802	1992472	5.10
Terbium	A	2071800	2128188	2.72

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET06
Seqnum : 66236847049 File : f1310049
Cal : 66236847001 Caldate: 13-JUN-2006
Standards: S3602, S3310

IDF : 1.0
Time : 13-JUN-2006 17:27

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	6.0557	1.0354	100.0	191.6	ug/L	**92**	10	c+ ***
Antimony	A	0.2923	0.2843	100.0	96.76	ug/L	-3	10	
Barium	A	0.0981	0.0729	100.0	94.66	ug/L	-5	10	
Beryllium	A	0.2410	0.2397	100.0	101.0	ug/L	1	10	
Cadmium	A	0.0863	0.0782	100.0	94.48	ug/L	-6	10	
Calcium	A	0.0296	0.0187	10000	9885	ug/L	-1	10	
Lead	A	0.3695	0.3299	100.0	99.20	ug/L	-1	10	
Magnesium	A	0.4466	0.3766	10000	9091	ug/L	-9	10	
Molybdenum	A	0.2179	0.1927	100.0	91.87	ug/L	-8	10	
Potassium	A	1.4185	0.5574	10000	9650	ug/L	-4	10	
Silver	A	0.3559	0.3336	100.0	96.35	ug/L	-4	10	
Thallium	A	0.8192	0.8135	50.00	48.94	ug/L	-2	10	
Arsenic	E	0.5637	0.4991	100.0	95.15	ug/L	-5	10	
Chromium	E	3.4652	2.3303	100.0	97.15	ug/L	-3	10	
Cobalt	E	3.5778	3.2578	100.0	98.26	ug/L	-2	10	
Copper	E	9.0003	4.3638	100.0	91.72	ug/L	-8	10	
Manganese	E	1.6799	1.4507	100.0	99.28	ug/L	-1	10	
Nickel	E	1.1256	0.8315	100.0	98.03	ug/L	-2	10	
Sodium	E	1.0504	0.4710	10000	9208	ug/L	-8	10	
Vanadium	E	2.5857	1.8022	100.0	95.79	ug/L	-4	10	
Zinc	E	3.9296	0.8973	100.0	93.38	ug/L	-7	10	
Iron	H	0.7617	0.6492	10000	10020	ug/L	0	10	
Selenium	H	0.1143	0.1106	100.0	98.11	ug/L	-2	10	

ISTD (ICALBLK f1310006)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	901521	797464	-11.54
Scandium	A	1292999	1332184	3.03
Scandium	E	57041	56704	-0.59
Scandium	H	505875	480494	-5.02
Germanium	H	87862	85604	-2.57
Germanium	E	27302	28021	2.63
Indium	A	1824921	1852161	1.49
Bismuth	A	690158	690161	0.00
Yttrium	A	1895802	1990475	4.99
Terbium	A	2071800	2165759	4.54

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66236847058 File : f1310058 Time : 13-JUN-2006 18:36
Cal : 66236847001 Caldate: 13-JUN-2006
Standards: S3602, S3310

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	6.0557	0.5158	100.0	95.02	ug/L	-5	10	
Antimony	A	0.2923	0.2872	100.0	97.74	ug/L	-2	10	
Barium	A	0.0981	0.0746	100.0	96.84	ug/L	-3	10	
Beryllium	A	0.2410	0.2455	100.0	103.5	ug/L	4	10	
Cadmium	A	0.0863	0.0789	100.0	95.35	ug/L	-5	10	
Calcium	A	0.0296	0.0184	10000	9722	ug/L	-3	10	
Lead	A	0.3695	0.3338	100.0	100.4	ug/L	0	10	
Magnesium	A	0.4466	0.3728	10000	9000	ug/L	-10	10	
Molybdenum	A	0.2179	0.1924	100.0	91.72	ug/L	-8	10	
Potassium	A	1.4185	0.5624	10000	9736	ug/L	-3	10	
Silver	A	0.3559	0.3371	100.0	97.36	ug/L	-3	10	
Thallium	A	0.8192	0.8270	50.00	49.75	ug/L	-1	10	
Arsenic	E	0.5637	0.5085	100.0	96.94	ug/L	-3	10	
Chromium	E	3.4652	2.3316	100.0	97.20	ug/L	-3	10	
Cobalt	E	3.5778	3.2827	100.0	99.01	ug/L	-1	10	
Copper	E	9.0003	4.4572	100.0	93.68	ug/L	-6	10	
Manganese	E	1.6799	1.4534	100.0	99.46	ug/L	-1	10	
Nickel	E	1.1256	0.8355	100.0	98.49	ug/L	-2	10	
Sodium	E	1.0504	0.4559	10000	8910	ug/L	**-11**	10	c- ***
Vanadium	E	2.5857	1.8210	100.0	96.79	ug/L	-3	10	
Zinc	E	3.9296	0.9072	100.0	94.42	ug/L	-6	10	
Iron	H	0.7617	0.6450	10000	9957	ug/L	0	10	
Selenium	H	0.1143	0.1086	100.0	96.35	ug/L	-4	10	

ISTD (ICALBLK f1310006)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	901521	760187	-15.68
Scandium	A	1292999	1323777	2.38
Scandium	E	57041	56680	-0.63
Scandium	H	505875	483973	-4.33
Germanium	H	87862	85974	-2.15
Germanium	E	27302	27760	1.68
Indium	A	1824921	1835498	0.58
Bismuth	A	690158	679430	-1.55
Yttrium	A	1895802	1971310	3.98
Terbium	A	2071800	2135402	3.07

-=low bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66236847017 File : f1310017 Time : 13-JUN-2006 13:27
Cal : 66236847001 Caldate: 13-JUN-2006

Analyte	Ch	Quant	RL	3X IDL	Units	Flags
Aluminum	A	ND	50.00	3.871	ug/L	
Antimony	A	ND	0.1000	0.01557	ug/L	
Barium	A	ND	0.1000	0.02280	ug/L	
Beryllium	A	ND	0.1000	0.01701	ug/L	
Cadmium	A	ND	0.1000	0.01572	ug/L	
Calcium	A	ND	10.00	11.39	ug/L	
Lead	A	ND	0.1000	0.01616	ug/L	
Magnesium	A	ND	10.00	3.993	ug/L	
Molybdenum	A	ND	0.1000	0.08529	ug/L	
Potassium	A	ND	10.00	11.51	ug/L	
Silver	A	ND	0.1000	0.01756	ug/L	
Thallium	A	ND	0.1000	0.1455	ug/L	
Arsenic	E	ND	0.1000	0.01328	ug/L	
Chromium	E	[0.09351]	0.1000	0.0009916	ug/L	!ib
Cobalt	E	ND	0.1000	0.007178	ug/L	
Copper	E	ND	0.1000	0	ug/L	
Manganese	E	ND	0.1000	0.01280	ug/L	
Nickel	E	[0.06604]	0.1000	0.003532	ug/L	!ib
Sodium	E	ND	10.00	151.2	ug/L	
Vanadium	E	ND	0.1000	0.01728	ug/L	
Zinc	E	[0.09963]	0.1000	0.02678	ug/L	!ib
Iron	H	ND	10.00	21.34	ug/L	
Selenium	H	ND	0.1000	0.004642	ug/L	

ISTD (ICALBLK f1310006)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	901521	927051	2.83
Scandium	A	1292999	1302435	0.73
Scandium	E	57041	57423	0.67
Scandium	H	505875	501352	-0.89
Germanium	H	87862	87453	-0.47
Germanium	E	27302	27567	0.97
Indium	A	1824921	1817021	-0.43
Bismuth	A	690158	689432	-0.11
Yttrium	A	1895802	1916638	1.10
Terbium	A	2071800	2065804	-0.29

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66236847039 File : f1310039 Time : 13-JUN-2006 16:14
Cal : 66236847001 Caldate: 13-JUN-2006

Analyte	Ch	Quant	RL	3X IDL	Units	Flags
Aluminum	A	ND	50.00	3.871	ug/L	
Antimony	A	ND	0.1000	0.01557	ug/L	
Barium	A	ND	0.1000	0.02280	ug/L	
Beryllium	A	ND	0.1000	0.01701	ug/L	
Cadmium	A	ND	0.1000	0.01572	ug/L	
Calcium	A	ND	10.00	11.39	ug/L	
Lead	A	ND	0.1000	0.01616	ug/L	
Magnesium	A	ND	10.00	3.993	ug/L	
Molybdenum	A	ND	0.1000	0.08529	ug/L	
Potassium	A	ND	10.00	11.51	ug/L	
Silver	A	ND	0.1000	0.01756	ug/L	
Thallium	A	ND	0.1000	0.1455	ug/L	
Arsenic	E	ND	0.1000	0.01328	ug/L	
Chromium	E	[0.07552]	0.1000	0.0009916	ug/L	!ib
Cobalt	E	ND	0.1000	0.007178	ug/L	
Copper	E	ND	0.1000	0	ug/L	
Manganese	E	ND	0.1000	0.01280	ug/L	
Nickel	E	[0.02717]	0.1000	0.003532	ug/L	!ib
Sodium	E	ND	10.00	151.2	ug/L	
Vanadium	E	ND	0.1000	0.01728	ug/L	
Zinc	E	ND	0.1000	0.02678	ug/L	
Iron	H	ND	10.00	21.34	ug/L	
Selenium	H	ND	0.1000	0.004642	ug/L	

ISTD (ICALBLK f1310006)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	901521	882916	-2.06
Scandium	A	1292999	1346582	4.14
Scandium	E	57041	60329	5.76
Scandium	H	505875	516908	2.18
Germanium	H	87862	91344	3.96
Germanium	E	27302	28936	5.98
Indium	A	1824921	1929834	5.75
Bismuth	A	690158	723957	4.90
Yttrium	A	1895802	2000609	5.53
Terbium	A	2071800	2161240	4.32

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66236847051 File : f1310051 Time : 13-JUN-2006 17:42
Cal : 66236847001 Caldate: 13-JUN-2006

Analyte	Ch	Quant	RL	3X IDL	Units	Flags
Aluminum	A	ND	50.00	3.871	ug/L	
Antimony	A	ND	0.1000	0.01557	ug/L	
Barium	A	ND	0.1000	0.02280	ug/L	
Beryllium	A	ND	0.1000	0.01701	ug/L	
Cadmium	A	ND	0.1000	0.01572	ug/L	
Calcium	A	ND	10.00	11.39	ug/L	
Lead	A	ND	0.1000	0.01616	ug/L	
Magnesium	A	ND	10.00	3.993	ug/L	
Molybdenum	A	ND	0.1000	0.08529	ug/L	
Potassium	A	ND	10.00	11.51	ug/L	
Silver	A	ND	0.1000	0.01756	ug/L	
Thallium	A	ND	0.1000	0.1455	ug/L	
Arsenic	E	ND	0.1000	0.01328	ug/L	
Chromium	E	ND	0.1000	0.0009916	ug/L	
Cobalt	E	ND	0.1000	0.007178	ug/L	
Copper	E	ND	0.1000	0	ug/L	
Manganese	E	ND	0.1000	0.01280	ug/L	
Nickel	E	ND	0.1000	0.003532	ug/L	
Sodium	E	ND	10.00	151.2	ug/L	
Vanadium	E	ND	0.1000	0.01728	ug/L	
Zinc	E	ND	0.1000	0.02678	ug/L	
Iron	H	ND	10.00	21.34	ug/L	
Selenium	H	ND	0.1000	0.004642	ug/L	

ISTD (ICALBLK f1310006)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	901521	784625	-12.97
Scandium	A	1292999	1283381	-0.74
Scandium	E	57041	55126	-3.36
Scandium	H	505875	482928	-4.54
Germanium	H	87862	86391	-1.67
Germanium	E	27302	27538	0.86
Indium	A	1824921	1863580	2.12
Bismuth	A	690158	743245	7.69
Yttrium	A	1895802	1927254	1.66
Terbium	A	2071800	2162024	4.35

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66236847061 File : f1310061 Time : 13-JUN-2006 19:01
Cal : 66236847001 Caldate: 13-JUN-2006

Analyte	Ch	Quant	RL	3X IDL	Units	Flags
Aluminum	A	ND	50.00	3.871	ug/L	
Antimony	A	ND	0.1000	0.01557	ug/L	
Barium	A	ND	0.1000	0.02280	ug/L	
Beryllium	A	ND	0.1000	0.01701	ug/L	
Cadmium	A	ND	0.1000	0.01572	ug/L	
Calcium	A	ND	10.00	11.39	ug/L	
Lead	A	ND	0.1000	0.01616	ug/L	
Magnesium	A	ND	10.00	3.993	ug/L	
Molybdenum	A	ND	0.1000	0.08529	ug/L	
Potassium	A	ND	10.00	11.51	ug/L	
Silver	A	ND	0.1000	0.01756	ug/L	
Thallium	A	ND	0.1000	0.1455	ug/L	
Arsenic	E	ND	0.1000	0.01328	ug/L	
Chromium	E	ND	0.1000	0.0009916	ug/L	
Cobalt	E	ND	0.1000	0.007178	ug/L	
Copper	E	ND	0.1000	0	ug/L	
Manganese	E	ND	0.1000	0.01280	ug/L	
Nickel	E	ND	0.1000	0.003532	ug/L	
Sodium	E	ND	10.00	151.2	ug/L	
Vanadium	E	ND	0.1000	0.01728	ug/L	
Zinc	E	ND	0.1000	0.02678	ug/L	
Iron	H	31.77	10.00	21.34	ug/L	ib ***
Selenium	H	[0.03711]	0.1000	0.004642	ug/L	!ib

ISTD (ICALBLK f1310006)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	901521	770748	-14.51
Scandium	A	1292999	1307747	1.14
Scandium	E	57041	55921	-1.96
Scandium	H	505875	488315	-3.47
Germanium	H	87862	87769	-0.11
Germanium	E	27302	27875	2.10
Indium	A	1824921	1873455	2.66
Bismuth	A	690158	732368	6.12
Yttrium	A	1895802	1961323	3.46
Terbium	A	2071800	2166535	4.57

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CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66236847018 File : f1310018 Time : 13-JUN-2006 13:35
Cal : 66236847001 Caldate: 13-JUN-2006
Standards: S3612, S3310

Analyte	Ch	Quant	RL	Units	Flags
Antimony	A	2.195	0.1000	ug/L	
Barium	A	0.9641	0.1000	ug/L	
Beryllium	A	[0.01951]	0.1000	ug/L	
Cadmium	A	1.685	0.1000	ug/L	
Lead	A	1.090	0.1000	ug/L	
Silver	A	0.1588	0.1000	ug/L	
Thallium	A	[0.08076]	0.1000	ug/L	
Arsenic	E	0.1948	0.1000	ug/L	
Chromium	E	0.8090	0.1000	ug/L	
Cobalt	E	2.381	0.1000	ug/L	
Copper	E	1.120	0.1000	ug/L	
Manganese	E	1.019	0.1000	ug/L	
Nickel	E	0.6892	0.1000	ug/L	
Vanadium	E	[0.04914]	0.1000	ug/L	
Zinc	E	2.006	0.1000	ug/L	
Selenium	H	[0.04331]	0.1000	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Aluminum	A	100000	91590	ug/L	92
Calcium	A	300000	298900	ug/L	100
Magnesium	A	100000	92690	ug/L	93
Molybdenum	A	2000	1934	ug/L	97
Potassium	A	100000	96520	ug/L	97
Sodium	E	250000	246100	ug/L	98
Iron	H	250000	235000	ug/L	94

ISTD (ICALBLK f1310006)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	901521	717362	-20.43
Scandium	A	1292999	1084891	-16.09
Scandium	E	57041	46568	-18.36
Scandium	H	505875	413659	-18.23
Germanium	H	87862	69502	-20.90
Germanium	E	27302	20562	-24.69
Indium	A	1824921	1440571	-21.06
Bismuth	A	690158	449204	-34.91
Yttrium	A	1895802	1627012	-14.18
Terbium	A	2071800	1730536	-16.47

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66236847019 File : f1310019 Time : 13-JUN-2006 13:42
Cal : 66236847001 Caldate: 13-JUN-2006
Standards: S3620, S3310

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	100000	89820	ug/L	-10		
Cadmium	A	100.0	100.0	ug/L	0	20	
Calcium	A	300000	296100	ug/L	-1		
Magnesium	A	100000	91890	ug/L	-8		
Molybdenum	A	2000	1924	ug/L	-4		
Potassium	A	100000	95670	ug/L	-4		
Silver	A	50.00	48.41	ug/L	-3	20	
Arsenic	E	100.0	100.3	ug/L	0	20	
Chromium	E	200.0	193.9	ug/L	-3	20	
Cobalt	E	200.0	182.9	ug/L	-9	20	
Copper	E	200.0	172.6	ug/L	-14	20	
Manganese	E	200.0	200.3	ug/L	0	20	
Nickel	E	200.0	175.7	ug/L	-12	20	
Sodium	E	250000	246100	ug/L	-2		
Vanadium	E	200.0	200.2	ug/L	0	20	
Zinc	E	100.0	102.8	ug/L	3	20	
Iron	H	250000	240400	ug/L	-4		
Selenium	H	100.0	97.31	ug/L	-3	20	

ISTD (ICALBLK f1310006)	Ch	ICALBLK Abund	Abund	%Drift
Scandium	H	505875	409449	-19.06
Scandium	A	1292999	1075904	-16.79
Scandium	E	57041	44995	-21.12
Germanium	H	87862	69035	-21.43
Germanium	E	27302	20140	-26.23
Indium	A	1824921	1454077	-20.32
Yttrium	A	1895802	1626058	-14.23

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66236847045 File : f1310045 Time : 13-JUN-2006 16:58
Cal : 66236847001 Caldate: 13-JUN-2006
Standards: S3612, S3310

Analyte	Ch	Quant	RL	Units	Flags
Antimony	A	2.213	0.1000	ug/L	
Barium	A	0.9987	0.1000	ug/L	
Beryllium	A	[0.01671]	0.1000	ug/L	
Cadmium	A	1.329	0.1000	ug/L	
Lead	A	1.106	0.1000	ug/L	
Silver	A	0.1480	0.1000	ug/L	
Thallium	A	[0.04482]	0.1000	ug/L	
Arsenic	E	0.1756	0.1000	ug/L	
Chromium	E	0.9632	0.1000	ug/L	
Cobalt	E	2.446	0.1000	ug/L	
Copper	E	1.125	0.1000	ug/L	
Manganese	E	1.619	0.1000	ug/L	
Nickel	E	0.8599	0.1000	ug/L	
Vanadium	E	[0.05563]	0.1000	ug/L	
Zinc	E	2.028	0.1000	ug/L	
Selenium	H	[0.03860]	0.1000	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Aluminum	A	100000	90220	ug/L	90
Calcium	A	300000	297500	ug/L	99
Magnesium	A	100000	90750	ug/L	91
Molybdenum	A	2000	1947	ug/L	97
Potassium	A	100000	96380	ug/L	96
Sodium	E	250000	241500	ug/L	97
Iron	H	250000	238400	ug/L	95

ISTD (ICALBLK f1310006)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	901521	659262	-26.87
Scandium	A	1292999	1064480	-17.67
Scandium	E	57041	46404	-18.65
Scandium	H	505875	407885	-19.37
Germanium	H	87862	68189	-22.39
Germanium	E	27302	20526	-24.82
Indium	A	1824921	1449792	-20.56
Bismuth	A	690158	464383	-32.71
Yttrium	A	1895802	1627328	-14.16
Terbium	A	2071800	1763883	-14.86

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66236847046 File : f1310046 Time : 13-JUN-2006 17:05
Cal : 66236847001 Caldate: 13-JUN-2006
Standards: S3620, S3310

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	100000	89300	ug/L	-11		
Cadmium	A	100.0	101.5	ug/L	2	20	
Calcium	A	300000	298900	ug/L	0		
Magnesium	A	100000	89750	ug/L	-10		
Molybdenum	A	2000	1932	ug/L	-3		
Potassium	A	100000	96420	ug/L	-4		
Silver	A	50.00	48.97	ug/L	-2	20	
Arsenic	E	100.0	99.85	ug/L	0	20	
Chromium	E	200.0	192.2	ug/L	-4	20	
Cobalt	E	200.0	181.9	ug/L	-9	20	
Copper	E	200.0	172.3	ug/L	-14	20	
Manganese	E	200.0	197.1	ug/L	-1	20	
Nickel	E	200.0	173.7	ug/L	-13	20	
Sodium	E	250000	236800	ug/L	-5		
Vanadium	E	200.0	198.8	ug/L	-1	20	
Zinc	E	100.0	102.7	ug/L	3	20	
Iron	H	250000	238500	ug/L	-5		
Selenium	H	100.0	97.64	ug/L	-2	20	

ISTD (ICALBLK f1310006)	Ch	ICALBLK Abund	Abund	%Drift
Scandium	H	505875	406380	-19.67
Scandium	A	1292999	1067617	-17.43
Scandium	E	57041	45690	-19.90
Germanium	H	87862	69062	-21.40
Germanium	E	27302	20282	-25.71
Indium	A	1824921	1454147	-20.32
Yttrium	A	1895802	1641837	-13.40

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66236847054 File : f1310054 Time : 13-JUN-2006 18:06
Cal : 66236847001 Caldate: 13-JUN-2006
Standards: S3612, S3310

Analyte	Ch	Quant	RL	Units	Flags
Antimony	A	2.222	0.1000	ug/L	
Barium	A	0.9684	0.1000	ug/L	
Beryllium	A	[0.01378]	0.1000	ug/L	
Cadmium	A	1.356	0.1000	ug/L	
Lead	A	1.071	0.1000	ug/L	
Silver	A	0.1445	0.1000	ug/L	
Thallium	A	[0.04545]	0.1000	ug/L	
Arsenic	E	0.1846	0.1000	ug/L	
Chromium	E	0.9148	0.1000	ug/L	
Cobalt	E	2.426	0.1000	ug/L	
Copper	E	1.156	0.1000	ug/L	
Manganese	E	1.001	0.1000	ug/L	
Nickel	E	0.7749	0.1000	ug/L	
Vanadium	E	[0.03906]	0.1000	ug/L	
Zinc	E	2.103	0.1000	ug/L	
Selenium	H	[0.04099]	0.1000	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Aluminum	A	100000	88760	ug/L	89
Calcium	A	300000	298300	ug/L	99
Magnesium	A	100000	89170	ug/L	89
Molybdenum	A	2000	1914	ug/L	96
Potassium	A	100000	95980	ug/L	96
Sodium	E	250000	237400	ug/L	95
Iron	H	250000	240700	ug/L	96

ISTD (ICALBLK f1310006)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	901521	649754	-27.93
Scandium	A	1292999	1095380	-15.28
Scandium	E	57041	46297	-18.84
Scandium	H	505875	408550	-19.24
Germanium	H	87862	68905	-21.58
Germanium	E	27302	20142	-26.23
Indium	A	1824921	1475778	-19.13
Bismuth	A	690158	475884	-31.05
Yttrium	A	1895802	1683141	-11.22
Terbium	A	2071800	1812935	-12.49

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66236847055 File : f1310055 Time : 13-JUN-2006 18:14
Cal : 66236847001 Caldate: 13-JUN-2006
Standards: S3620, S3310

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	100000	88940	ug/L	-11		
Cadmium	A	100.0	100.1	ug/L	0	20	
Calcium	A	300000	300300	ug/L	0		
Magnesium	A	100000	90050	ug/L	-10		
Molybdenum	A	2000	1919	ug/L	-4		
Potassium	A	100000	97410	ug/L	-3		
Silver	A	50.00	48.52	ug/L	-3	20	
Arsenic	E	100.0	101.5	ug/L	2	20	
Chromium	E	200.0	194.2	ug/L	-3	20	
Cobalt	E	200.0	184.0	ug/L	-8	20	
Copper	E	200.0	174.3	ug/L	-13	20	
Manganese	E	200.0	198.8	ug/L	-1	20	
Nickel	E	200.0	176.4	ug/L	-12	20	
Sodium	E	250000	238400	ug/L	-5		
Vanadium	E	200.0	201.6	ug/L	1	20	
Zinc	E	100.0	103.1	ug/L	3	20	
Iron	H	250000	239000	ug/L	-4		
Selenium	H	100.0	97.76	ug/L	-2	20	

ISTD (ICALBLK f1310006)	Ch	ICALBLK Abund	Abund	%Drift
Scandium	H	505875	412095	-18.54
Scandium	A	1292999	1086519	-15.97
Scandium	E	57041	45422	-20.37
Germanium	H	87862	68831	-21.66
Germanium	E	27302	20277	-25.73
Indium	A	1824921	1480429	-18.88
Yttrium	A	1895802	1670319	-11.89

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 66236847 Instrument: MET06 Agilent ICP-MS MET06 Begun: 13-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	f1310001	TUN				13-JUN-2006 11:27	1.0	1.0				1	
002	f1310002	X	RINSE			13-JUN-2006 11:36	1.0					2	
003	f1310003	X	RINSE			13-JUN-2006 11:44	1.0					2	
004	f1310004	X	CALBLANK			13-JUN-2006 11:51	1.0					2	
005	f1310005	X	RINSE			13-JUN-2006 11:59	1.0					2	
006	f1310006	ICALBLK	CALBLANK			13-JUN-2006 12:07	1.0	1.0				2	
007	f1310007	ICAL				13-JUN-2006 12:14	1.0	1.0				3	
008	f1310008	ICAL				13-JUN-2006 12:21	1.0	1.0				4	
009	f1310009	ICAL				13-JUN-2006 12:29	1.0	1.0				5	
010	f1310010	ICAL				13-JUN-2006 12:36	1.0	1.0				6	
011	f1310011	ICAL				13-JUN-2006 12:43	1.0	1.0				7	
012	f1310012	ICAL				13-JUN-2006 12:50	1.0	1.0				8	
013	f1310013	ICV				13-JUN-2006 12:58	1.0	1.0			1	9	
014	f1310014	X	RINSE			13-JUN-2006 13:05	1.0					2	
015	f1310015	X				13-JUN-2006 13:12	1.0					2	
016	f1310016	X				13-JUN-2006 13:20	1.0					2	
017	f1310017	ICB				13-JUN-2006 13:27	1.0	1.0			1	2	
018	f1310018	ICSA				13-JUN-2006 13:35	1.0	1.0			1	10 2	7:CA=298900
019	f1310019	ICSAB				13-JUN-2006 13:42	1.0	1.0			1	11 2	9:CA=296100
020	f1310020	X	RINSE			13-JUN-2006 13:50	1.0					2	
021	f1310021	X	RINSE			13-JUN-2006 13:57	1.0					2	
022	f1310022	X	RINSE			13-JUN-2006 14:04	1.0					2	
023	f1310023	SAMPLE	187344-016	114317	Soil	13-JUN-2006 14:12	50.0	43.10			1	2	2:AL=3948.00
024	f1310024	SAMPLE	187344-017	114317	Soil	13-JUN-2006 14:22	50.0	49.02			1	2	2:AL=4534.00
025	f1310025	SAMPLE	187344-020	114317	Soil	13-JUN-2006 14:30	50.0	45.45	1		1	2	2:AL=3390.00
026	f1310026	SAMPLE	187344-021	114317	Soil	13-JUN-2006 14:37	50.0	47.17			1	2	2:AL=3558.00
027	f1310027	SAMPLE	187344-020	114317	Soil	13-JUN-2006 14:44	50.0	45.45			1	2	2:AL=3392.00
028	f1310028	X	RINSE			13-JUN-2006 14:52	1.0					2	
029	f1310029	SAMPLE	187344-021	114317	Soil	13-JUN-2006 14:59	50.0	47.17			1	2	2:AL=3516.00
030	f1310030	SAMPLE	187344-022	114317	Soil	13-JUN-2006 15:06	50.0	44.25			1	2	2:AL=3602.00
031	f1310031	SAMPLE	187344-023	114317	Soil	13-JUN-2006 15:14	50.0	45.05			1	2	2:AL=4994.00

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Stds used: 1=S3622 2=S3310 3=S3607 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3602

Analyst: K Carlyon Date: 6/14/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 66236847 Instrument: MET06 Agilent ICP-MS MET06 Begun: 13-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	f1310032	X	RINSE			13-JUN-2006 15:21	1.0					2	
033	f1310033	CCV				13-JUN-2006 15:28	1.0	1.0			1	12 2	
034	f1310034	X	RINSE			13-JUN-2006 15:36	1.0					2	
035	f1310035	X				13-JUN-2006 15:43	1.0					2	
036	f1310036	X				13-JUN-2006 15:51	1.0					2	
037	f1310037	X	187344-024	114317	Soil	13-JUN-2006 15:58	50.0					2	
038	f1310038	X				13-JUN-2006 16:05	1.0					2	
039	f1310039	CCB				13-JUN-2006 16:14	1.0	1.0			1	2	
040	f1310040	SAMPLE	187344-024	114317	Soil	13-JUN-2006 16:21	50.0	48.08			1	2	2:AL=4378.00
041	f1310041	SAMPLE	187344-025	114317	Soil	13-JUN-2006 16:28	50.0	44.25			1	2	2:AL=4454.00
042	f1310042	SAMPLE	187344-021	114317	Soil	13-JUN-2006 16:36	100.0	47.17			1	2	1:AL=1821.00
043	f1310043	SAMPLE	187344-022	114317	Soil	13-JUN-2006 16:43	100.0	44.25			1	2	1:AL=1811.00
044	f1310044	SAMPLE	187344-023	114317	Soil	13-JUN-2006 16:50	100.0	45.05			1	2	1:AL=2548.00
045	f1310045	ICSA				13-JUN-2006 16:58	1.0	1.0			1	10 2	7:CA=297500
046	f1310046	ICSAB				13-JUN-2006 17:05	1.0	1.0			1	11 2	7:CA=298900
047	f1310047	X	RINSE			13-JUN-2006 17:13	1.0					2	
048	f1310048	X	RINSE			13-JUN-2006 17:20	1.0					2	
049	f1310049	CCV				13-JUN-2006 17:27	1.0	1.0	1		1	12 2	
050	f1310050	X	RINSE			13-JUN-2006 17:35	1.0					2	
051	f1310051	CCB				13-JUN-2006 17:42	1.0	1.0			1	2	
052	f1310052	X				13-JUN-2006 17:51	1.0					2	
053	f1310053	BLANK	QC343066	114197	Filtra	13-JUN-2006 17:59	1.0	1.0	1		1	2	
054	f1310054	ICSA				13-JUN-2006 18:06	1.0	1.0			1	10 2	7:CA=298300
055	f1310055	ICSAB				13-JUN-2006 18:14	1.0	1.0			1	11 2	8:CA=300300
056	f1310056	X	RINSE			13-JUN-2006 18:21	1.0					2	
057	f1310057	X	RINSE			13-JUN-2006 18:29	1.0					2	
058	f1310058	CCV				13-JUN-2006 18:36	1.0	1.0	1		1	12 2	
059	f1310059	X	RINSE			13-JUN-2006 18:43	1.0					2	
060	f1310060	X				13-JUN-2006 18:51	1.0					2	
061	f1310061	CCB				13-JUN-2006 19:01	1.0	1.0	1		1	2	

Stds used: 1=S3622 2=S3310 3=S3607 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3602

Analyst: K Carlson Date: 6/14/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

nst : MET08
alnum : 86238380001 Date : 14-JUN-2006 13:00
nits : ug/L X Axis : R

Reviewer: ---

evel	File	Seqnum	Sample ID	Analyzed	Stds
L1	061406ar.txt	86238380002	CRIM08	14-JUN-2006 13:04	S3580
L2	061406ar.txt	86238380003	CS100	14-JUN-2006 13:08	S3582
L3	061406ar.txt	86238380004	CS1K	14-JUN-2006 13:11	S3581
L4	061406ar.txt	86238380005	CS10K	14-JUN-2006 13:14	S3583
L5	061406ar.txt	86238380006	CS100K	14-JUN-2006 13:16	S3584

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
ntimony	A	44.862	38.096	38.830	38.371		LOR0	0.00000	0.02606		40.040	1.000	0.995	
rsenic	A	18.523	21.053	21.650	20.814		LOR0	0.00000	0.04803		20.510	1.000	0.995	
arium	A	453.37	434.79	442.09	425.43		LOR0	0.00000	0.00235		438.92	1.000	0.995	
eryllium	A	3640.8	3641.0	3746.0			LOR0	0.00000	2.67E-4		3676.0	1.000	0.995	
oron	A	175.93		183.62	179.31		LOR0	0.00000	0.00558		179.62	1.000	0.995	
admium	A	338.63	340.88	353.31	332.13		LOR0	0.00000	0.00301		341.24	1.000	0.995	
hromium	A	96.668	95.970	97.352	93.646		LOR0	0.00000	0.01067		95.909	1.000	0.995	
obalt	A	108.71	113.39	118.68	113.65		LOR0	0.00000	0.00880		113.61	1.000	0.995	
opper	A	744.92	673.89	721.36	713.00		LOR0	0.00000	0.00140		713.29	1.000	0.995	
ead	A	49.443	53.205	55.042	52.844		LOR0	0.00000	0.01892		52.634	1.000	0.995	
anganese	A	986.95	961.71	978.95	920.89		LOR0	0.00000	0.00109		962.12	1.000	0.995	
olybdenum	A	45.674	44.780	45.352	44.765		LOR0	0.00000	0.02234		45.143	1.000	0.995	
ickel	A	63.589	61.587	64.204	61.705		LOR0	0.00000	0.01620		62.771	1.000	0.995	
elenium	A	22.988	21.063	21.613	21.312		LOR0	0.00000	0.04691		21.744	1.000	0.995	
ilver	A	393.68	428.76	456.55	459.77		LOR0	0.00000	0.00218		434.69	1.000	0.995	
hallium	A	21.801	19.607	20.325	19.870		LOR0	0.00000	0.05032		20.401	1.000	0.995	
in	A	21.289	21.541	22.327	22.048		LOR0	0.00000	0.04535		21.801	1.000	0.995	
itanium	A	1125.9	1113.2	1134.9	1048.4		LOR0	0.00000	9.53E-4		1105.6	1.000	0.995	
anadium	A	146.99	141.82	147.69	142.80		LOR0	0.00000	0.00700		144.82	1.000	0.995	
inc	A	140.58	142.48	122.85	116.75		LOR0	0.00000	0.00856		130.67	1.000	0.995	
luminum	R	1.4735		1.5428	1.5105	1.5197	LOR0	0.00000	0.65805		1.5116	1.000	0.995	
alcium	R	16.346		13.974	12.148	11.628	LOR0	0.00000	0.08596		13.524	1.000	0.995	
ron	R	8.9083		9.0965	8.8660	8.2723	LOR0	0.00000	0.12080		8.7858	1.000	0.995	
agnesium	R	2.1576		2.2647	2.1939	2.0783	LOR0	0.00000	0.48090		2.1736	1.000	0.995	
otassium	R	6.4902		6.4582	6.0635	5.8913	LOR0	0.00000	0.16969		6.2258	1.000	0.995	
odium	R	10.226		10.803	9.9763	9.4582	LOR0	0.00000	0.10567		10.116	1.000	0.995	

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nstrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

86238380001

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/14/2006 1:00:31 PM
Data Type: Reprocessed on 6/14/2006 1:35:27 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	152.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	-2731.6	85.89	3.14%	[0.00]	ug/L
Al 308.215 R	97.2	6.84	7.04%	[0.00]	ug/L
As 188.979	-42.2	22.11	52.44%	[0.00]	ug/L
B 249.677	1232.4	14.11	1.14%	[0.00]	ug/L
Ba 233.527	-34.5	13.04	37.81%	[0.00]	ug/L
Be 313.107	-1056.3	118.31	11.20%	[0.00]	ug/L
Ca 315.887 R	347.7	31.45	9.04%	[0.00]	ug/L
Cd 214.440	-1.8	7.97	443.26%	[0.00]	ug/L
Co 228.616	-160.3	16.03	10.00%	[0.00]	ug/L
Cr 267.716	-181.5	10.42	5.74%	[0.00]	ug/L
Cu 324.752	1216.0	144.02	11.84%	[0.00]	ug/L
Fe 238.204 R	113.3	6.38	5.63%	[0.00]	ug/L
K 766.490 R	-5573.0	377.67	6.78%	[0.00]	ug/L
Mg 279.077 R	-89.8	5.83	6.50%	[0.00]	ug/L
Mn 257.610	422.1	17.76	4.21%	[0.00]	ug/L
Mo 202.031	-6.0	8.57	142.95%	[0.00]	ug/L
Na 589.592 R	968.7	102.70	10.60%	[0.00]	ug/L
Ni 231.604	288.9	4.98	1.72%	[0.00]	ug/L
Pb 220.353	163.5	14.97	9.16%	[0.00]	ug/L
Sb 206.836	437.4	4.90	1.12%	[0.00]	ug/L
Se 196.026	-63.4	26.10	41.16%	[0.00]	ug/L
Ti 334.940 R	423.1	86.92	20.54%	[0.00]	ug/L
Tl 190.801	116.9	9.40	8.04%	[0.00]	ug/L
V 292.402	-1127.1	22.45	1.99%	[0.00]	ug/L
Zn 206.200	-651.0	4.66	0.72%	[0.00]	ug/L
Sn 189.927	52.7	7.29	13.84%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 6/14/2006 1:04:33 PM
Data Type: Reprocessed on 6/14/2006 1:35:29 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	152.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2508046.5	38083.55	1.52%	100.0	%
Y	388520.7	2415.06	0.62%	100.0	%
Ag 328.068†	1968.4	49.25	2.50%	[5.0]	ug/L
Al 308.215 R†	147.4	6.05	4.11%	[100]	ug/L
As 188.979†	92.6	16.76	18.10%	[5.0]	ug/L
B 249.677†	17593.5	230.48	1.31%	[100]	ug/L
Ba 233.527†	2266.9	30.53	1.35%	[5.0]	ug/L
Be 313.107†	7281.6	123.14	1.69%	[2.0]	ug/L
Ca 315.887 R†	3269.2	21.59	0.66%	[200]	ug/L
Cd 214.440†	1693.2	27.99	1.65%	[5.0]	ug/L
Co 228.616†	543.6	7.03	1.29%	[5.0]	ug/L
Cr 267.716†	483.3	12.87	2.66%	[5.0]	ug/L
Cu 324.752†	3724.6	100.47	2.70%	[5.0]	ug/L
Fe 238.204 R†	890.8	1.92	0.22%	[100]	ug/L
K 766.490 R†	3245.1	323.82	9.98%	[500]	ug/L
Mg 279.077 R†	431.5	1.63	0.38%	[200]	ug/L
Mn 257.610†	4934.7	52.24	1.06%	[5.0]	ug/L
Mo 202.031†	228.4	5.03	2.20%	[5.0]	ug/L
Na 589.592 R†	5113.0	124.29	2.43%	[500]	ug/L
Ni 231.604†	317.9	7.01	2.20%	[5.0]	ug/L
Pb 220.353†	148.3	24.68	16.64%	[3.0]	ug/L
Sb 206.836†	224.3	36.57	16.31%	[5.0]	ug/L
Se 196.026†	114.9	30.39	26.44%	[5.0]	ug/L
Ti 334.940 R†	11259.2	116.57	1.04%	[10]	ug/L
Tl 190.801†	109.0	8.25	7.56%	[5.0]	ug/L
V 292.402†	734.9	15.69	2.13%	[5.0]	ug/L
Zn 206.200†	2811.7	24.68	0.88%	[20]	ug/L
Sn 189.927†	851.6	11.64	1.37%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/14/2006 1:08:41 PM
Data Type: Reprocessed on 6/14/2006 1:35:30 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2615983.0	122501.92	4.68%	104.3	%
Y	419218.9	13314.05	3.18%	107.9	%
Ag 328.068†	42876.0	2749.99	6.41%	[100]	ug/L
As 188.979†	2105.3	93.93	4.46%	[100]	ug/L
Ba 233.527†	43479.1	2402.02	5.52%	[100]	ug/L
Be 313.107†	364103.8	19389.36	5.33%	[100]	ug/L
Cd 214.440†	34088.1	1830.25	5.37%	[100]	ug/L
Co 228.616†	11338.7	522.76	4.61%	[100]	ug/L
Cr 267.716†	9597.0	428.29	4.46%	[100]	ug/L
Cu 324.752†	67388.6	3565.18	5.29%	[100]	ug/L
Mn 257.610†	96170.7	5440.34	5.66%	[100]	ug/L
Mo 202.031†	4478.0	232.96	5.20%	[100]	ug/L
Ni 231.604†	6158.7	296.55	4.82%	[100]	ug/L
Pb 220.353†	5320.5	245.07	4.61%	[100]	ug/L
Sb 206.836†	3809.6	194.46	5.10%	[100]	ug/L
Se 196.026†	2106.3	98.04	4.65%	[100]	ug/L
Ti 334.940 R†	111323.1	6469.45	5.81%	[100]	ug/L
Tl 190.801†	1960.7	106.36	5.42%	[100]	ug/L
V 292.402†	14182.3	568.93	4.01%	[100]	ug/L
Zn 206.200†	14248.2	629.26	4.42%	[100]	ug/L
Sn 189.927†	2154.1	96.69	4.49%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/14/2006 1:11:48 PM
Data Type: Reprocessed on 6/14/2006 1:35:31 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2558669.5	41219.87	1.61%	102.0	%
Y	394436.0	4515.14	1.14%	101.5	%
Ag 328.068†	456549.0	2030.70	0.44%	[1000]	ug/L
Al 308.215 R†	1542.8	37.99	2.46%	[1000]	ug/L
As 188.979†	21650.5	489.52	2.26%	[1000]	ug/L
B 249.677†	183618.5	4891.64	2.66%	[1000]	ug/L
Ba 233.527†	442085.7	2743.64	0.62%	[1000]	ug/L
Be 313.107†	3746046.6	14299.19	0.38%	[1000]	ug/L
Ca 315.887 R†	13973.6	456.40	3.27%	[1000]	ug/L
Cd 214.440†	353309.3	1868.66	0.53%	[1000]	ug/L
Co 228.616†	118678.6	2120.59	1.79%	[1000]	ug/L
Cr 267.716†	97351.9	2142.30	2.20%	[1000]	ug/L
Cu 324.752†	721364.4	3676.94	0.51%	[1000]	ug/L
Fe 238.204 R†	9096.5	285.73	3.14%	[1000]	ug/L
K 766.490 R†	6458.2	201.18	3.12%	[1000]	ug/L
Mg 279.077 R†	2264.7	52.79	2.33%	[1000]	ug/L
Mn 257.610†	978948.6	4482.52	0.46%	[1000]	ug/L
Mo 202.031†	45351.8	944.74	2.08%	[1000]	ug/L
Na 589.592 R†	10803.5	290.93	2.69%	[1000]	ug/L
Ni 231.604†	64203.8	1360.07	2.12%	[1000]	ug/L
Pb 220.353†	55042.3	1173.05	2.13%	[1000]	ug/L
Sb 206.836†	38829.9	980.65	2.53%	[1000]	ug/L
Se 196.026†	21613.2	566.53	2.62%	[1000]	ug/L
Ti 334.940 R†	1134907.1	6794.63	0.60%	[1000]	ug/L
Tl 190.801†	20325.4	479.36	2.36%	[1000]	ug/L
V 292.402†	147691.6	895.44	0.61%	[1000]	ug/L
Zn 206.200†	122850.9	2495.98	2.03%	[1000]	ug/L
Sn 189.927†	22327.1	418.62	1.87%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/14/2006 1:14:02 PM
Data Type: Reprocessed on 6/14/2006 1:35:32 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	152.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2476283.7	21725.36	0.88%	98.73	%
Y	379567.1	5610.78	1.48%	97.70	%
Ag 328.068†	919540.7	17937.60	1.95%	[2000]	ug/L
Al 308.215 R†	15104.7	69.96	0.46%	[10000]	ug/L
As 188.979†	208138.3	4014.57	1.93%	[10000]	ug/L
B 249.677†	1793082.3	32492.61	1.81%	[10000]	ug/L
Ba 233.527†	4254265.3	39446.54	0.93%	[10000]	ug/L
Ca 315.887 R†	121482.3	638.42	0.53%	[10000]	ug/L
Cd 214.440†	3321335.6	26584.13	0.80%	[10000]	ug/L
Co 228.616†	1136481.6	17129.60	1.51%	[10000]	ug/L
Cr 267.716†	936460.6	14561.45	1.55%	[10000]	ug/L
Cu 324.752†	7130048.2	74473.69	1.04%	[10000]	ug/L
Fe 238.204 R†	88660.4	564.77	0.64%	[10000]	ug/L
K 766.490 R†	60634.8	719.85	1.19%	[10000]	ug/L
Mg 279.077 R†	21938.7	44.94	0.20%	[10000]	ug/L
Mn 257.610†	9208872.4	79215.50	0.86%	[10000]	ug/L
Mo 202.031†	447649.8	8504.54	1.90%	[10000]	ug/L
Na 589.592 R†	99762.5	389.85	0.39%	[10000]	ug/L
Ni 231.604†	617048.9	10983.83	1.78%	[10000]	ug/L
Pb 220.353†	528440.6	8003.31	1.51%	[10000]	ug/L
Sb 206.836†	383711.7	8472.21	2.21%	[10000]	ug/L
Se 196.026†	213124.2	3389.99	1.59%	[10000]	ug/L
Ti 334.940 R†	10484060.8	109451.42	1.04%	[10000]	ug/L
Tl 190.801†	198696.4	2508.93	1.26%	[10000]	ug/L
V 292.402†	1427956.2	20664.08	1.45%	[10000]	ug/L
Zn 206.200†	1167546.8	17210.81	1.47%	[10000]	ug/L
Sn 189.927†	220476.7	4020.45	1.82%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 6/14/2006 1:16:50 PM
Data Type: Reprocessed on 6/14/2006 1:35:33 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	152.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2306674.6	52540.05	2.28%	91.97	%
Y	365157.7	5066.24	1.39%	93.99	%
Al 308.215 R†	151973.0	1328.44	0.87%	[100000]	ug/L
Ca 315.887 R†	1162766.4	5956.60	0.51%	[100000]	ug/L
Fe 238.204 R†	827231.9	7777.06	0.94%	[100000]	ug/L
K 766.490 R†	589128.0	3194.29	0.54%	[100000]	ug/L
Mg 279.077 R†	207826.8	1764.97	0.85%	[100000]	ug/L
Na 589.592 R†	945824.8	4792.76	0.51%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	459.1	0.00000	0.999992	
Al 308.215 R	4	Lin Thru 0	0.0	1.520	0.00000	1.000000	
As 188.979	4	Lin Thru 0	0.0	20.82	0.00000	0.999992	
B 249.677	3	Lin Thru 0	0.0	179.4	0.00000	0.999997	
Ba 233.527	4	Lin Thru 0	0.0	425.6	0.00000	0.999992	
Be 313.107	3	Lin Thru 0	0.0	3745	0.00000	0.999996	
Ca 315.887 R	4	Lin Thru 0	0.0	11.63	0.00000	0.999988	
Cd 214.440	4	Lin Thru 0	0.0	332.3	0.00000	0.999980	
Co 228.616	4	Lin Thru 0	0.0	113.7	0.00000	0.999990	
Cr 267.716	4	Lin Thru 0	0.0	93.68	0.00000	0.999992	
Cu 324.752	4	Lin Thru 0	0.0	713.1	0.00000	0.999999	
Fe 238.204 R	4	Lin Thru 0	0.0	8.278	0.00000	0.999974	
K 766.490 R	4	Lin Thru 0	0.0	5.893	0.00000	0.999995	
Mg 279.077 R	4	Lin Thru 0	0.0	2.079	0.00000	0.999984	
Mn 257.610	4	Lin Thru 0	0.0	921.5	0.00000	0.999980	
Mo 202.031	4	Lin Thru 0	0.0	44.77	0.00000	0.999999	
Na 589.592 R	4	Lin Thru 0	0.0	9.464	0.00000	0.999984	
Ni 231.604	4	Lin Thru 0	0.0	61.73	0.00000	0.999992	
Pb 220.353	4	Lin Thru 0	0.0	52.87	0.00000	0.999992	
Sb 206.836	4	Lin Thru 0	0.0	38.38	0.00000	0.999999	
Se 196.026	4	Lin Thru 0	0.0	21.32	0.00000	0.999999	
Ti 334.940 R	4	Lin Thru 0	0.0	1049	0.00000	0.999967	
Tl 190.801	4	Lin Thru 0	0.0	19.87	0.00000	0.999997	
V 292.402	4	Lin Thru 0	0.0	142.8	0.00000	0.999994	
Zn 206.200	4	Lin Thru 0	0.0	116.8	0.00000	0.999984	
Sn 189.927	4	Lin Thru 0	0.0	22.05	0.00000	0.999999	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

nst : MET08 IDF : 1.0
eqnum : 86238380007 File : 061406ar.txt Time : 14-JUN-2006 13:19
al : 86238380001 Caldate: 14-JUN-2006
tandards: S3684

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	40.040	39.765	5000	5181	ug/L	4	10	
Arsenic	A	20.510	22.011	5000	5285	ug/L	6	10	
Barium	A	438.92	433.70	5000	5095	ug/L	2	10	
Beryllium	A	3676.0	3764.3	500.0	502.6	ug/L	1	10	
Boron	A	179.62	188.92	5000	5267	ug/L	5	10	
Cadmium	A	341.24	348.84	5000	5248	ug/L	5	10	
Chromium	A	95.909	94.207	5000	5028	ug/L	1	10	
Cobalt	A	113.61	114.42	5000	5022	ug/L	0	10	
Copper	A	713.29	680.08	5000	4769	ug/L	-5	10	
Lead	A	52.634	52.847	5000	4998	ug/L	0	10	
Manganese	A	962.12	923.85	5000	5013	ug/L	0	10	
Molybdenum	A	45.143	45.923	5000	5129	ug/L	3	10	
Nickel	A	62.771	61.649	5000	4993	ug/L	0	10	
Selenium	A	21.744	21.892	5000	5135	ug/L	3	10	
Silver	A	434.69	427.07	1000	930.3	ug/L	-7	10	
Thallium	A	20.401	19.645	5000	4942	ug/L	-1	10	
Tin	A	21.801	21.818	5000	4947	ug/L	-1	10	
Titanium	A	1105.6	1085.6	5000	5173	ug/L	3	10	
Vanadium	A	144.82	144.96	5000	5074	ug/L	1	10	
Zinc	A	130.67	122.44	5000	5241	ug/L	5	10	
Aluminum	R	1.5116	1.5098	20000	19870	ug/L	-1	10	
Calcium	R	13.524	12.088	20000	20780	ug/L	4	10	
Iron	R	8.7858	8.7003	20000	21020	ug/L	5	10	
Magnesium	R	2.1736	2.2262	20000	21410	ug/L	7	10	
Potassium	R	6.2258	5.8441	20000	19830	ug/L	-1	10	
Sodium	R	10.116	9.6268	20000	20350	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2508047	2393311	-4.57

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86238380012 File : 061406ar.txt Time : 14-JUN-2006 13:57
Cal : 86238380001 Caldate: 14-JUN-2006
Standards: S3685

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	40.040	39.372	5000	5130	ug/L	3	10	
Arsenic	A	20.510	21.843	5000	5245	ug/L	5	10	
Barium	A	438.92	438.90	5000	5156	ug/L	3	10	
Beryllium	A	3676.0	3784.7	500.0	505.3	ug/L	1	10	
Boron	A	179.62	189.41	5000	5281	ug/L	6	10	
Cadmium	A	341.24	345.90	5000	5204	ug/L	4	10	
Chromium	A	95.909	95.379	5000	5091	ug/L	2	10	
Cobalt	A	113.61	115.15	5000	5053	ug/L	1	10	
Copper	A	713.29	701.46	5000	4918	ug/L	-2	10	
Lead	A	52.634	52.854	5000	4999	ug/L	0	10	
Manganese	A	962.12	935.57	5000	5077	ug/L	2	10	
Molybdenum	A	45.143	45.922	5000	5129	ug/L	3	10	
Nickel	A	62.771	61.883	5000	5012	ug/L	0	10	
Selenium	A	21.744	21.495	5000	5042	ug/L	1	10	
Silver	A	434.69	445.62	1000	970.7	ug/L	-3	10	
Thallium	A	20.401	20.134	5000	5065	ug/L	1	10	
Tin	A	21.801	22.003	5000	4989	ug/L	0	10	
Titanium	A	1105.6	1108.6	5000	5283	ug/L	6	10	
Vanadium	A	144.82	148.03	5000	5182	ug/L	4	10	
Zinc	A	130.67	121.30	5000	5192	ug/L	4	10	
Aluminum	R	1.5116	1.4866	20000	19560	ug/L	-2	10	
Calcium	R	13.524	11.734	20000	20170	ug/L	1	10	
Iron	R	8.7858	8.4463	20000	20410	ug/L	2	10	
Magnesium	R	2.1736	2.1324	20000	20510	ug/L	3	10	
Potassium	R	6.2258	5.8221	20000	19760	ug/L	-1	10	
Sodium	R	10.116	9.5726	20000	20230	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2508047	2388136	-4.78

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86238380028 File : 061406ar.txt Time : 14-JUN-2006 14:56
Cal : 86238380001 Caldate: 14-JUN-2006
Standards: S3685

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	40.040	39.038	5000	5086	ug/L	2	10	
Arsenic	A	20.510	21.941	5000	5269	ug/L	5	10	
Barium	A	438.92	439.95	5000	5169	ug/L	3	10	
Beryllium	A	3676.0	3803.4	500.0	507.8	ug/L	2	10	
Boron	A	179.62	193.06	5000	5382	ug/L	8	10	
Cadmium	A	341.24	349.61	5000	5260	ug/L	5	10	
Chromium	A	95.909	96.351	5000	5142	ug/L	3	10	
Cobalt	A	113.61	115.75	5000	5080	ug/L	2	10	
Copper	A	713.29	702.78	5000	4928	ug/L	-1	10	
Lead	A	52.634	53.038	5000	5016	ug/L	0	10	
Manganese	A	962.12	943.43	5000	5119	ug/L	2	10	
Molybdenum	A	45.143	46.403	5000	5182	ug/L	4	10	
Nickel	A	62.771	61.818	5000	5007	ug/L	0	10	
Selenium	A	21.744	21.705	5000	5091	ug/L	2	10	
Silver	A	434.69	444.36	1000	968.0	ug/L	-3	10	
Thallium	A	20.401	20.239	5000	5092	ug/L	2	10	
Tin	A	21.801	22.296	5000	5056	ug/L	1	10	
Titanium	A	1105.6	1112.0	5000	5299	ug/L	6	10	
Vanadium	A	144.82	148.12	5000	5185	ug/L	4	10	
Zinc	A	130.67	123.01	5000	5265	ug/L	5	10	
Aluminum	R	1.5116	1.6065	20000	21140	ug/L	6	10	
Calcium	R	13.524	12.419	20000	21350	ug/L	7	10	
Iron	R	8.7858	9.1079	20000	22000	ug/L	10	10	
Magnesium	R	2.1736	2.2747	20000	21880	ug/L	9	10	
Potassium	R	6.2258	6.2786	20000	21310	ug/L	7	10	
Sodium	R	10.116	10.302	20000	21770	ug/L	9	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2508047	2482647	-1.01

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86238380039 File : 061406ar.txt Time : 14-JUN-2006 15:39
Cal : 86238380001 Caldate: 14-JUN-2006
Standards: S3685

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	40.040	39.349	5000	5127	ug/L	3	10	
Arsenic	A	20.510	21.884	5000	5255	ug/L	5	10	
Barium	A	438.92	438.81	5000	5155	ug/L	3	10	
Beryllium	A	3676.0	3796.3	500.0	506.8	ug/L	1	10	
Boron	A	179.62	189.87	5000	5293	ug/L	6	10	
Cadmium	A	341.24	346.93	5000	5219	ug/L	4	10	
Chromium	A	95.909	95.539	5000	5099	ug/L	2	10	
Cobalt	A	113.61	115.11	5000	5052	ug/L	1	10	
Copper	A	713.29	703.87	5000	4935	ug/L	-1	10	
Lead	A	52.634	52.893	5000	5003	ug/L	0	10	
Manganese	A	962.12	940.88	5000	5105	ug/L	2	10	
Molybdenum	A	45.143	45.697	5000	5103	ug/L	2	10	
Nickel	A	62.771	61.863	5000	5011	ug/L	0	10	
Selenium	A	21.744	21.674	5000	5084	ug/L	2	10	
Silver	A	434.69	447.18	1000	974.1	ug/L	-3	10	
Thallium	A	20.401	20.262	5000	5098	ug/L	2	10	
Tin	A	21.801	22.056	5000	5001	ug/L	0	10	
Titanium	A	1105.6	1111.5	5000	5297	ug/L	6	10	
Vanadium	A	144.82	148.40	5000	5194	ug/L	4	10	
Zinc	A	130.67	121.66	5000	5207	ug/L	4	10	
Aluminum	R	1.5116	1.5500	20000	20400	ug/L	2	10	
Calcium	R	13.524	12.021	20000	20670	ug/L	3	10	
Iron	R	8.7858	8.7673	20000	21180	ug/L	6	10	
Magnesium	R	2.1736	2.1838	20000	21000	ug/L	5	10	
Potassium	R	6.2258	6.0873	20000	20660	ug/L	3	10	
Sodium	R	10.116	10.024	20000	21180	ug/L	6	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2508047	2441824	-2.64

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86238380047 File : 061406ar.txt Time : 14-JUN-2006 16:04
Cal : 86238380001 Caldate: 14-JUN-2006
Standards: S3685

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	40.040	40.589	5000	5288	ug/L	6	10	
Arsenic	A	20.510	22.741	5000	5461	ug/L	9	10	
Barium	A	438.92	449.97	5000	5286	ug/L	6	10	
Beryllium	A	3676.0	3890.0	500.0	519.4	ug/L	4	10	
Boron	A	179.62	195.13	5000	5440	ug/L	9	10	
Cadmium	A	341.24	356.09	5000	5357	ug/L	7	10	
Chromium	A	95.909	98.530	5000	5259	ug/L	5	10	
Cobalt	A	113.61	118.24	5000	5189	ug/L	4	10	
Copper	A	713.29	719.30	5000	5044	ug/L	1	10	
Lead	A	52.634	54.946	5000	5197	ug/L	4	10	
Manganese	A	962.12	963.65	5000	5229	ug/L	5	10	
Molybdenum	A	45.143	48.977	5000	5470	ug/L	9	10	
Nickel	A	62.771	64.105	5000	5192	ug/L	4	10	
Selenium	A	21.744	22.554	5000	5290	ug/L	6	10	
Silver	A	434.69	459.27	1000	1000	ug/L	0	10	
Thallium	A	20.401	20.972	5000	5276	ug/L	6	10	
Tin	A	21.801	23.033	5000	5223	ug/L	4	10	
Titanium	A	1105.6	1139.2	5000	5429	ug/L	9	10	
Vanadium	A	144.82	151.19	5000	5292	ug/L	6	10	
Zinc	A	130.67	125.09	5000	5354	ug/L	7	10	
Aluminum	R	1.5116	1.5299	20000	20130	ug/L	1	10	
Calcium	R	13.524	11.878	20000	20420	ug/L	2	10	
Iron	R	8.7858	8.6992	20000	21020	ug/L	5	10	
Magnesium	R	2.1736	2.1621	20000	20800	ug/L	4	10	
Potassium	R	6.2258	5.9757	20000	20280	ug/L	1	10	
Sodium	R	10.116	9.8319	20000	20780	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2508047	2384524	-4.93

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86238380058 File : 061406ar.txt Time : 14-JUN-2006 16:42
Cal : 86238380001 Caldate: 14-JUN-2006
Standards: S3685

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	40.040	39.291	5000	5119	ug/L	2	10	
Arsenic	A	20.510	22.105	5000	5308	ug/L	6	10	
Barium	A	438.92	439.42	5000	5162	ug/L	3	10	
Beryllium	A	3676.0	3800.0	500.0	507.3	ug/L	1	10	
Boron	A	179.62	188.82	5000	5264	ug/L	5	10	
Cadmium	A	341.24	347.50	5000	5228	ug/L	5	10	
Chromium	A	95.909	95.890	5000	5118	ug/L	2	10	
Cobalt	A	113.61	115.46	5000	5067	ug/L	1	10	
Copper	A	713.29	703.70	5000	4934	ug/L	-1	10	
Lead	A	52.634	53.346	5000	5045	ug/L	1	10	
Manganese	A	962.12	941.23	5000	5107	ug/L	2	10	
Molybdenum	A	45.143	46.189	5000	5158	ug/L	3	10	
Nickel	A	62.771	62.254	5000	5042	ug/L	1	10	
Selenium	A	21.744	21.857	5000	5127	ug/L	3	10	
Silver	A	434.69	448.08	1000	976.1	ug/L	-2	10	
Thallium	A	20.401	20.325	5000	5114	ug/L	2	10	
Tin	A	21.801	22.141	5000	5020	ug/L	0	10	
Titanium	A	1105.6	1112.1	5000	5299	ug/L	6	10	
Vanadium	A	144.82	147.66	5000	5169	ug/L	3	10	
Zinc	A	130.67	122.00	5000	5222	ug/L	4	10	
Aluminum	R	1.5116	1.5487	20000	20380	ug/L	2	10	
Calcium	R	13.524	12.054	20000	20720	ug/L	4	10	
Iron	R	8.7858	8.8183	20000	21300	ug/L	7	10	
Magnesium	R	2.1736	2.1899	20000	21060	ug/L	5	10	
Potassium	R	6.2258	6.1523	20000	20880	ug/L	4	10	
Sodium	R	10.116	10.032	20000	21200	ug/L	6	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2508047	2499772	-0.33

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 86238380072
Cal : 86238380001
Standards: S3685

File : 061406ar.txt
Caldate: 14-JUN-2006

IDF : 1.0
Time : 14-JUN-2006 17:35

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	40.040	38.524	5000	5019	ug/L	0	10	
Arsenic	A	20.510	21.985	5000	5279	ug/L	6	10	
Barium	A	438.92	435.84	5000	5120	ug/L	2	10	
Beryllium	A	3676.0	3783.3	500.0	505.1	ug/L	1	10	
Boron	A	179.62	186.69	5000	5205	ug/L	4	10	
Cadmium	A	341.24	346.17	5000	5208	ug/L	4	10	
Chromium	A	95.909	95.253	5000	5084	ug/L	2	10	
Cobalt	A	113.61	114.63	5000	5030	ug/L	1	10	
Copper	A	713.29	694.62	5000	4871	ug/L	-3	10	
Lead	A	52.634	53.289	5000	5040	ug/L	1	10	
Manganese	A	962.12	935.77	5000	5078	ug/L	2	10	
Molybdenum	A	45.143	46.124	5000	5151	ug/L	3	10	
Nickel	A	62.771	61.872	5000	5012	ug/L	0	10	
Selenium	A	21.744	21.735	5000	5098	ug/L	2	10	
Silver	A	434.69	443.71	1000	966.5	ug/L	-3	10	
Thallium	A	20.401	20.376	5000	5126	ug/L	3	10	
Tin	A	21.801	22.184	5000	5030	ug/L	1	10	
Titanium	A	1105.6	1099.5	5000	5239	ug/L	5	10	
Vanadium	A	144.82	146.44	5000	5126	ug/L	3	10	
Zinc	A	130.67	121.75	5000	5211	ug/L	4	10	
Aluminum	R	1.5116	1.5607	20000	20540	ug/L	3	10	
Calcium	R	13.524	12.031	20000	20680	ug/L	3	10	
Iron	R	8.7858	8.8981	20000	21500	ug/L	7	10	
Magnesium	R	2.1736	2.1883	20000	21050	ug/L	5	10	
Potassium	R	6.2258	6.1396	20000	20840	ug/L	4	10	
Sodium	R	10.116	10.197	20000	21550	ug/L	8	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2508047	2509836	0.07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86238380080 File : 061406ar.txt Time : 14-JUN-2006 18:04
Cal : 86238380001 Caldate: 14-JUN-2006
Standards: S3685

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	40.040	39.139	5000	5099	ug/L	2	10	
Arsenic	A	20.510	22.291	5000	5353	ug/L	7	10	
Barium	A	438.92	440.54	5000	5176	ug/L	4	10	
Beryllium	A	3676.0	3826.7	500.0	510.9	ug/L	2	10	
Boron	A	179.62	189.01	5000	5269	ug/L	5	10	
Cadmium	A	341.24	350.58	5000	5274	ug/L	5	10	
Chromium	A	95.909	96.129	5000	5131	ug/L	3	10	
Cobalt	A	113.61	116.01	5000	5091	ug/L	2	10	
Copper	A	713.29	701.45	5000	4918	ug/L	-2	10	
Lead	A	52.634	53.847	5000	5093	ug/L	2	10	
Manganese	A	962.12	946.10	5000	5134	ug/L	3	10	
Molybdenum	A	45.143	46.426	5000	5185	ug/L	4	10	
Nickel	A	62.771	62.475	5000	5060	ug/L	1	10	
Selenium	A	21.744	22.129	5000	5191	ug/L	4	10	
Silver	A	434.69	448.11	1000	976.1	ug/L	-2	10	
Thallium	A	20.401	20.564	5000	5174	ug/L	3	10	
Tin	A	21.801	22.412	5000	5082	ug/L	2	10	
Titanium	A	1105.6	1108.5	5000	5282	ug/L	6	10	
Vanadium	A	144.82	148.06	5000	5183	ug/L	4	10	
Zinc	A	130.67	123.30	5000	5277	ug/L	6	10	
Aluminum	R	1.5116	1.5176	20000	19970	ug/L	0	10	
Calcium	R	13.524	11.649	20000	20030	ug/L	0	10	
Iron	R	8.7858	8.6893	20000	20990	ug/L	5	10	
Magnesium	R	2.1736	2.1300	20000	20490	ug/L	2	10	
Potassium	R	6.2258	6.0468	20000	20520	ug/L	3	10	
Sodium	R	10.116	9.8786	20000	20880	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2508047	2511416	0.13

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86238380093 File : 061406ar.txt Time : 14-JUN-2006 18:47
Cal : 86238380001 Caldate: 14-JUN-2006
Standards: S3685

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	40.040	40.646	5000	5296	ug/L	6	10	
Arsenic	A	20.510	23.028	5000	5530	ug/L	**11**	10	c+ ***
Barium	A	438.92	456.35	5000	5361	ug/L	7	10	
Beryllium	A	3676.0	3965.4	500.0	529.4	ug/L	6	10	
Boron	A	179.62	195.50	5000	5450	ug/L	9	10	
Cadmium	A	341.24	364.83	5000	5489	ug/L	10	10	
Chromium	A	95.909	99.390	5000	5305	ug/L	6	10	
Cobalt	A	113.61	120.31	5000	5280	ug/L	6	10	
Copper	A	713.29	722.85	5000	5068	ug/L	1	10	
Lead	A	52.634	55.618	5000	5260	ug/L	5	10	
Manganese	A	962.12	981.45	5000	5325	ug/L	7	10	
Molybdenum	A	45.143	47.995	5000	5360	ug/L	7	10	
Nickel	A	62.771	64.628	5000	5235	ug/L	5	10	
Selenium	A	21.744	22.841	5000	5358	ug/L	7	10	
Silver	A	434.69	460.92	1000	1004	ug/L	0	10	
Thallium	A	20.401	21.271	5000	5351	ug/L	7	10	
Tin	A	21.801	23.261	5000	5274	ug/L	5	10	
Titanium	A	1105.6	1147.2	5000	5467	ug/L	9	10	
Vanadium	A	144.82	153.29	5000	5366	ug/L	7	10	
Zinc	A	130.67	128.36	5000	5494	ug/L	10	10	
Aluminum	R	1.5116	1.5660	20000	20610	ug/L	3	10	
Calcium	R	13.524	12.031	20000	20680	ug/L	3	10	
Iron	R	8.7858	8.9862	20000	21710	ug/L	9	10	
Magnesium	R	2.1736	2.2004	20000	21160	ug/L	6	10	
Potassium	R	6.2258	6.1759	20000	20960	ug/L	5	10	
Sodium	R	10.116	10.096	20000	21340	ug/L	7	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2508047	2442669	-2.61

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 86238380108 File : 061406ar.txt
Cal : 86238380001 Caldate: 14-JUN-2006
Standards: S3685

IDF : 1.0
Time : 14-JUN-2006 19:38

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	40.040	39.863	5000	5194	ug/L	4	10	
Arsenic	A	20.510	22.612	5000	5430	ug/L	9	10	
Barium	A	438.92	446.40	5000	5244	ug/L	5	10	
Beryllium	A	3676.0	3889.1	500.0	519.2	ug/L	4	10	
Boron	A	179.62	191.60	5000	5341	ug/L	7	10	
Cadmium	A	341.24	355.05	5000	5342	ug/L	7	10	
Chromium	A	95.909	98.201	5000	5241	ug/L	5	10	
Cobalt	A	113.61	117.48	5000	5156	ug/L	3	10	
Copper	A	713.29	713.06	5000	5000	ug/L	0	10	
Lead	A	52.634	54.967	5000	5199	ug/L	4	10	
Manganese	A	962.12	962.11	5000	5221	ug/L	4	10	
Molybdenum	A	45.143	47.396	5000	5293	ug/L	6	10	
Nickel	A	62.771	63.697	5000	5159	ug/L	3	10	
Selenium	A	21.744	22.451	5000	5266	ug/L	5	10	
Silver	A	434.69	457.56	1000	996.7	ug/L	0	10	
Thallium	A	20.401	21.003	5000	5284	ug/L	6	10	
Tin	A	21.801	22.884	5000	5189	ug/L	4	10	
Titanium	A	1105.6	1124.7	5000	5359	ug/L	7	10	
Vanadium	A	144.82	150.51	5000	5268	ug/L	5	10	
Zinc	A	130.67	124.75	5000	5340	ug/L	7	10	
Aluminum	R	1.5116	1.5363	20000	20220	ug/L	1	10	
Calcium	R	13.524	11.804	20000	20290	ug/L	1	10	
Iron	R	8.7858	8.8405	20000	21360	ug/L	7	10	
Magnesium	R	2.1736	2.1445	20000	20630	ug/L	3	10	
Potassium	R	6.2258	6.1487	20000	20870	ug/L	4	10	
Sodium	R	10.116	10.097	20000	21340	ug/L	7	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2508047	2415432	-3.69

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86238380117 File : 061406ar.txt Time : 14-JUN-2006 20:09
Cal : 86238380001 Caldate: 14-JUN-2006
Standards: S3685

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	40.040	40.361	5000	5259	ug/L	5	10	
Arsenic	A	20.510	22.727	5000	5457	ug/L	9	10	
Barium	A	438.92	458.62	5000	5388	ug/L	8	10	
Beryllium	A	3676.0	3983.6	500.0	531.9	ug/L	6	10	
Boron	A	179.62	196.81	5000	5487	ug/L	10	10	
Cadmium	A	341.24	364.94	5000	5490	ug/L	10	10	
Chromium	A	95.909	98.662	5000	5266	ug/L	5	10	
Cobalt	A	113.61	120.65	5000	5295	ug/L	6	10	
Copper	A	713.29	730.72	5000	5124	ug/L	2	10	
Lead	A	52.634	54.892	5000	5192	ug/L	4	10	
Manganese	A	962.12	983.06	5000	5334	ug/L	7	10	
Molybdenum	A	45.143	47.441	5000	5298	ug/L	6	10	
Nickel	A	62.771	63.973	5000	5182	ug/L	4	10	
Selenium	A	21.744	22.502	5000	5278	ug/L	6	10	
Silver	A	434.69	460.72	1000	1004	ug/L	0	10	
Thallium	A	20.401	20.896	5000	5257	ug/L	5	10	
Tin	A	21.801	22.925	5000	5198	ug/L	4	10	
Titanium	A	1105.6	1159.1	5000	5523	ug/L	10	10	
Vanadium	A	144.82	154.75	5000	5417	ug/L	8	10	
Zinc	A	130.67	128.12	5000	5484	ug/L	10	10	
Aluminum	R	1.5116	1.6212	20000	21340	ug/L	7	10	
Calcium	R	13.524	12.668	20000	21780	ug/L	9	10	
Iron	R	8.7858	9.3499	20000	22590	ug/L	**13**	10	c+ ***
Magnesium	R	2.1736	2.2953	20000	22080	ug/L	10	10	
Potassium	R	6.2258	6.4797	20000	21990	ug/L	10	10	
Sodium	R	10.116	10.620	20000	22440	ug/L	**12**	10	c+ ***

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2508047	2404031	-4.15

+=high bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86238380008 File : 061406ar.txt Time : 14-JUN-2006 13:25
Cal : 86238380001 Caldate: 14-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	[51.40]	100.0	13.57	ug/L	!ib
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[1.665]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2508047	2501410	-0.26

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86238380014 File : 061406ar.txt Time : 14-JUN-2006 14:04
Cal : 86238380001 Caldate: 14-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	[15.22]	100.0	13.57	ug/L	!ib
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[2.262]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2508047	2457153	-2.03

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

:nst : MET08 IDF : 1.0
:eqnum : 86238380030 File : 061406ar.txt Time : 14-JUN-2006 15:02
:al : 86238380001 Caldate: 14-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	[25.99]	100.0	13.57	ug/L	!ib
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[3.219]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	[253.5]	500.0	39.23	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2508047	2593395	3.40

=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86238380041 File : 061406ar.txt Time : 14-JUN-2006 15:45
Cal : 86238380001 Caldate: 14-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	[20.96]	100.0	13.57	ug/L	!ib
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[1.496]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	[130.6]	500.0	128.8	ug/L	!ib
Sodium	R	[152.7]	500.0	39.23	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2508047	2648018	5.58

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86238380049 File : 061406ar.txt Time : 14-JUN-2006 16:11
Cal : 86238380001 Caldate: 14-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	[22.93]	100.0	13.57	ug/L	!ib
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[2.586]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	[105.4]	500.0	39.23	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2508047	2554226	1.84

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86238380060 File : 061406ar.txt Time : 14-JUN-2006 16:49
Cal : 86238380001 Caldate: 14-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	[14.30]	100.0	13.57	ug/L	!ib
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[1.120]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	[163.4]	500.0	128.8	ug/L	!ib
Sodium	R	[233.4]	500.0	39.23	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2508047	2523718	0.62

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86238380074 File : 061406ar.txt Time : 14-JUN-2006 17:41
Cal : 86238380001 Caldate: 14-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[0.7881]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	[325.5]	500.0	39.23	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2508047	2619956	4.46

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86238380081 File : 061406ar.txt Time : 14-JUN-2006 18:08
Cal : 86238380001 Caldate: 14-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	[14.33]	100.0	13.57	ug/L	!ib
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[2.567]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[1.084]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	[199.2]	500.0	128.8	ug/L	!ib
Sodium	R	[233.3]	500.0	39.23	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2508047	2609895	4.06

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 86238380096
Cal : 86238380001

File : 061406ar.txt
Caldate: 14-JUN-2006

IDF : 1.0
Time : 14-JUN-2006 18:54

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	[18.55]	100.0	13.57	ug/L	!ib
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[1.728]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[1.340]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	[181.8]	500.0	39.23	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2508047	2491655	-0.65

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86238380110 File : 061406ar.txt Time : 14-JUN-2006 19:44
Cal : 86238380001 Caldate: 14-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	[21.58]	100.0	13.57	ug/L	!ib
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[0.9953]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	[246.6]	500.0	39.23	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2508047	2481660	-1.05

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86238380120 File : 061406ar.txt Time : 14-JUN-2006 20:16
Cal : 86238380001 Caldate: 14-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	[19.78]	100.0	13.57	ug/L	!ib
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[2.094]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	[134.7]	500.0	39.23	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2508047	2458119	-1.99

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86238380009 File : 061406ar.txt Time : 14-JUN-2006 13:29
Cal : 86238380001 Caldate: 14-JUN-2006
Standards: S3254

Analyte	Ch	Quant	RL	Units	Flags
Antimony	A	[2.358]	5.000	ug/L	
Arsenic	A	[3.067]	5.000	ug/L	
Barium	A	[1.677]	5.000	ug/L	
Beryllium	A	[0.5535]	2.000	ug/L	
Boron	A	[32.55]	100.0	ug/L	
Cadmium	A	[3.373]	5.000	ug/L	
Cobalt	A	[-1.352]	5.000	ug/L	
Lead	A	[-0.1328]	3.000	ug/L	
Molybdenum	A	[-0.2011]	5.000	ug/L	
Selenium	A	[2.733]	5.000	ug/L	
Silver	A	[3.683]	5.000	ug/L	
Thallium	A	[2.707]	5.000	ug/L	
Tin	A	[8.171]	40.00	ug/L	
Zinc	A	[9.018]	20.00	ug/L	
Potassium	R	[106.4]	500.0	ug/L	
Sodium	R	[66.47]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19660	ug/L	98
Copper	A	20000	21080	ug/L	105
Manganese	A	20000	18720	ug/L	94
Nickel	A	20000	18370	ug/L	92
Titanium	A	20000	17890	ug/L	89
Vanadium	A	20000	21420	ug/L	107
Aluminum	R	500000	506500	ug/L	101
Calcium	R	500000	497500	ug/L	99
Iron	R	200000	193300	ug/L	97
Magnesium	R	500000	496400	ug/L	99

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2508047	2069375	-17.49

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86238380010 File : 061406ar.txt Time : 14-JUN-2006 13:37
Cal : 86238380001 Caldate: 14-JUN-2006
Standards: S3527

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	532.6	ug/L	7	20	
Arsenic	A	500.0	544.4	ug/L	9	20	
Barium	A	500.0	537.7	ug/L	8	20	
Beryllium	A	500.0	525.7	ug/L	5	20	
Cadmium	A	1000	1012	ug/L	1	20	
Chromium	A	500.0	521.8	ug/L	4	20	
Cobalt	A	500.0	469.7	ug/L	-6	20	
Copper	A	500.0	514.5	ug/L	3	20	
Lead	A	1000	951.7	ug/L	-5	20	
Manganese	A	500.0	529.2	ug/L	6	20	
Molybdenum	A	500.0	529.3	ug/L	6	20	
Nickel	A	1000	930.5	ug/L	-7	20	
Selenium	A	500.0	523.8	ug/L	5	20	
Silver	A	1000	1080	ug/L	8	20	
Thallium	A	500.0	493.8	ug/L	-1	20	
Titanium	A	20000	20130	ug/L	1		
Vanadium	A	500.0	562.5	ug/L	13	20	
Zinc	A	1000	984.5	ug/L	-2	20	
Aluminum	R	500000	502500	ug/L	0		
Calcium	R	500000	488600	ug/L	-2		
Iron	R	200000	191700	ug/L	-4		
Magnesium	R	500000	482900	ug/L	-3		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2508047	2078091	-17.14

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86238380045 File : 061406ar.txt Time : 14-JUN-2006 16:00
Cal : 86238380001 Caldate: 14-JUN-2006
Standards: S3527

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	525.1	ug/L	5	20	
Arsenic	A	500.0	545.1	ug/L	9	20	
Barium	A	500.0	524.2	ug/L	5	20	
Beryllium	A	500.0	513.3	ug/L	3	20	
Cadmium	A	1000	989.2	ug/L	-1	20	
Chromium	A	500.0	514.0	ug/L	3	20	
Cobalt	A	500.0	461.6	ug/L	-8	20	
Copper	A	500.0	499.7	ug/L	0	20	
Lead	A	1000	952.9	ug/L	-5	20	
Manganese	A	500.0	516.7	ug/L	3	20	
Molybdenum	A	500.0	525.7	ug/L	5	20	
Nickel	A	1000	919.8	ug/L	-8	20	
Selenium	A	500.0	522.2	ug/L	4	20	
Silver	A	1000	1049	ug/L	5	20	
Thallium	A	500.0	490.6	ug/L	-2	20	
Titanium	A	20000	20020	ug/L	0		
Vanadium	A	500.0	554.4	ug/L	11	20	
Zinc	A	1000	975.6	ug/L	-2	20	
Aluminum	R	500000	499200	ug/L	0		
Calcium	R	500000	473300	ug/L	-5		
Iron	R	200000	187700	ug/L	-6		
Magnesium	R	500000	477500	ug/L	-4		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2508047	2110174	-15.86

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86238380078 File : 061406ar.txt Time : 14-JUN-2006 17:57
Cal : 86238380001 Caldate: 14-JUN-2006
Standards: S3527

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	498.0	ug/L	0	20	
Arsenic	A	500.0	540.8	ug/L	8	20	
Barium	A	500.0	515.6	ug/L	3	20	
Beryllium	A	500.0	510.7	ug/L	2	20	
Cadmium	A	1000	986.0	ug/L	-1	20	
Chromium	A	500.0	506.8	ug/L	1	20	
Cobalt	A	500.0	457.6	ug/L	-8	20	
Copper	A	500.0	490.2	ug/L	-2	20	
Lead	A	1000	934.1	ug/L	-7	20	
Manganese	A	500.0	512.9	ug/L	3	20	
Molybdenum	A	500.0	520.0	ug/L	4	20	
Nickel	A	1000	910.1	ug/L	-9	20	
Selenium	A	500.0	510.9	ug/L	2	20	
Silver	A	1000	1036	ug/L	4	20	
Thallium	A	500.0	479.3	ug/L	-4	20	
Titanium	A	20000	19530	ug/L	-2		
Vanadium	A	500.0	545.2	ug/L	9	20	
Zinc	A	1000	971.6	ug/L	-3	20	
Aluminum	R	500000	504300	ug/L	1		
Calcium	R	500000	468100	ug/L	-6		
Iron	R	200000	189700	ug/L	-5		
Magnesium	R	500000	480100	ug/L	-4		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2508047	2180123	-13.07

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86238380115 File : 061406ar.txt Time : 14-JUN-2006 20:02
Cal : 86238380001 Caldate: 14-JUN-2006
Standards: S3527

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	531.1	ug/L	6	20	
Arsenic	A	500.0	546.4	ug/L	9	20	
Barium	A	500.0	534.2	ug/L	7	20	
Beryllium	A	500.0	524.4	ug/L	5	20	
Cadmium	A	1000	1014	ug/L	1	20	
Chromium	A	500.0	517.8	ug/L	4	20	
Cobalt	A	500.0	466.6	ug/L	-7	20	
Copper	A	500.0	506.4	ug/L	1	20	
Lead	A	1000	951.1	ug/L	-5	20	
Manganese	A	500.0	528.0	ug/L	6	20	
Molybdenum	A	500.0	528.0	ug/L	6	20	
Nickel	A	1000	926.3	ug/L	-7	20	
Selenium	A	500.0	510.9	ug/L	2	20	
Silver	A	1000	1071	ug/L	7	20	
Thallium	A	500.0	489.2	ug/L	-2	20	
Titanium	A	20000	20120	ug/L	1		
Vanadium	A	500.0	557.1	ug/L	11	20	
Zinc	A	1000	981.3	ug/L	-2	20	
Aluminum	R	500000	509200	ug/L	2		
Calcium	R	500000	481900	ug/L	-4		
Iron	R	200000	194200	ug/L	-3		
Magnesium	R	500000	484300	ug/L	-3		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2508047	2073525	-17.33

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86238380 Instrument: MET08 PE ICP Begun: 14-JUN-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	061406ar	ICALBLK				14-JUN-2006 13:00	1.0	1.0				
002	061406ar	ICAL	CRIM08			14-JUN-2006 13:04	1.0	1.0			1	
003	061406ar	ICAL	CS100			14-JUN-2006 13:08	1.0	1.0			2	
004	061406ar	ICAL	CS1K			14-JUN-2006 13:11	1.0	1.0			3	
005	061406ar	ICAL	CS10K			14-JUN-2006 13:14	1.0	1.0			4	
006	061406ar	ICAL	CS100K			14-JUN-2006 13:16	1.0	1.0			5	
007	061406ar	ICV				14-JUN-2006 13:19	1.0	1.0		5000	6	
008	061406ar	ICB				14-JUN-2006 13:25	1.0	1.0		5000		
009	061406ar	ICSA				14-JUN-2006 13:29	1.0	1.0		5000	7	10:AL=506484
010	061406ar	ICSAB				14-JUN-2006 13:37	1.0	1.0		5000	8	5:AL=502492
011	061406ar	X				14-JUN-2006 13:55	1.0				9	
012	061406ar	CCV				14-JUN-2006 13:57	1.0	1.0		5000	9	
013	061406ar	X	FLUSH			14-JUN-2006 14:00	1.0					
014	061406ar	CCB				14-JUN-2006 14:04	1.0	1.0		5000		
015	061406ar	BLANK	QC343712	114353	Water	14-JUN-2006 14:07	1.0	1.0		5000		
016	061406ar	BS	QC343713	114353	Water	14-JUN-2006 14:11	1.0	1.0		5000		
017	061406ar	BSD	QC343714	114353	Water	14-JUN-2006 14:14	1.0	1.0		5000		
018	061406ar	MSS	187288-001	114353	Water	14-JUN-2006 14:17	1.0	1.0	3	5000		3:CA=495080
019	061406ar	MS	QC343715	114353	Water	14-JUN-2006 14:21	1.0	1.0		5000		3:CA=520882
020	061406ar	MSD	QC343716	114353	Water	14-JUN-2006 14:24	1.0	1.0		5000		3:CA=514040
021	061406ar	SAMPLE	187318-001	114353	Water	14-JUN-2006 14:26	1.0	1.0		5000		2:NA=264954
022	061406ar	SAMPLE	187318-002	114353	Water	14-JUN-2006 14:32	1.0	1.0		5000		
023	061406ar	SAMPLE	187319-001	114353	Water	14-JUN-2006 14:35	1.0	1.0	1	5000		1:NA=145400
024	061406ar	MSS	187288-001	114353	Water	14-JUN-2006 14:39	20.0	1.0	1	5000		1:NA=143293
025	061406ar	X				14-JUN-2006 14:43	1.0				9	
026	061406ar	X				14-JUN-2006 14:46	1.0				9	
027	061406ar	X				14-JUN-2006 14:54	1.0				9	
028	061406ar	CCV				14-JUN-2006 14:56	1.0	1.0		5000	9	
029	061406ar	X	FLUSH			14-JUN-2006 14:58	1.0					
030	061406ar	CCB				14-JUN-2006 15:02	1.0	1.0		5000		
031	061406ar	SAMPLE	187319-001	114353	Water	14-JUN-2006 15:08	1.0	1.0		5000		1:NA=137914

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Stds used: 1=S3580 2=S3582 3=S3581 4=S3583 5=S3584 6=S3684 7=S3254 8=S3527 9=S3685 10=S1792 11=S1793

Analyst: KT Date: 6/14/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86238380 Instrument: MET08 PE ICP Begun: 14-JUN-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
032	061406ar	BLANK	QC343874	114393	Water	14-JUN-2006 15:12	1.0	1.0	5000		
033	061406ar	BS	QC343875	114393	Water	14-JUN-2006 15:16	1.0	1.0	5000		
034	061406ar	BSD	QC343876	114393	Water	14-JUN-2006 15:20	1.0	1.0	5000		
035	061406ar	MSS	187413-001	114393	Water	14-JUN-2006 15:23	1.0	1.0	5000		
036	061406ar	SER	QC343879	114393	Water	14-JUN-2006 15:27	5.0	1.0	5000		
037	061406ar	MS	QC343877	114393	Water	14-JUN-2006 15:32	1.0	1.0	5000		
038	061406ar	X	RINSE			14-JUN-2006 15:35	1.0				
039	061406ar	CCV				14-JUN-2006 15:39	1.0	1.0	5000	9	
040	061406ar	X	FLUSH			14-JUN-2006 15:41	1.0				
041	061406ar	CCB				14-JUN-2006 15:45	1.0	1.0	5000		
042	061406ar	MSD	QC343878	114393	Water	14-JUN-2006 15:49	1.0	1.0	5000		
043	061406ar	PDS	QC343880	114393	Water	14-JUN-2006 15:53	1.0	1.0	5000	10 11	
044	061406ar	SAMPLE	187413-023	114393	Water	14-JUN-2006 15:56	1.0	1.0	5000		
045	061406ar	ICSAB				14-JUN-2006 16:00	1.0	1.0	5000	8	5:AL=499215
046	061406ar	X				14-JUN-2006 16:03	1.0			9	
047	061406ar	CCV				14-JUN-2006 16:04	1.0	1.0	5000	9	
048	061406ar	X	FLUSH			14-JUN-2006 16:07	1.0				
049	061406ar	CCB				14-JUN-2006 16:11	1.0	1.0	5000		
050	061406ar	SAMPLE	187398-001	114393	Water	14-JUN-2006 16:15	1.0	1.0	5000		1:FE=100439
051	061406ar	SAMPLE	187411-001	114393	Water	14-JUN-2006 16:18	1.0	1.0	5000		2:CA=161663
052	061406ar	SAMPLE	187411-002	114393	Water	14-JUN-2006 16:22	1.0	1.0	5000		
053	061406ar	SAMPLE	187411-003	114393	Water	14-JUN-2006 16:26	1.0	1.0	5000		1:CA=103405
054	061406ar	SAMPLE	187411-004	114393	Water	14-JUN-2006 16:29	1.0	1.0	5000		
055	061406ar	SAMPLE	187411-005	114393	Water	14-JUN-2006 16:32	1.0	1.0	5000		
056	061406ar	SAMPLE	187411-006	114393	Water	14-JUN-2006 16:35	1.0	1.0	5000		
057	061406ar	X	RINSE			14-JUN-2006 16:39	1.0				
058	061406ar	CCV				14-JUN-2006 16:42	1.0	1.0	5000	9	
059	061406ar	X	FLUSH			14-JUN-2006 16:45	1.0				
060	061406ar	CCB				14-JUN-2006 16:49	1.0	1.0	5000		
061	061406ar	SAMPLE	187411-007	114393	Water	14-JUN-2006 16:53	1.0	1.0	5000		
062	061406ar	SAMPLE	187411-008	114393	Water	14-JUN-2006 16:57	5.0	1.0	5000		

Stds used: 1=S3580 2=S3582 3=S3581 4=S3583 5=S3584 6=S3684 7=S3254 8=S3527 9=S3685 10=S1792 11=S1793

Analyst: [signature] Date: 6/14/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86238380 Instrument: MET08 PE ICP Begun: 14-JUN-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
063	061406ar	MSS	187354-004	114393	Filtra	14-JUN-2006 17:01	1.0	1.0	2		5000		2:CA=127924
064	061406ar	MS	QC343881	114393	Filtra	14-JUN-2006 17:06	1.0	1.0		1	5000		2:CA=151954
065	061406ar	MSD	QC343882	114393	Filtra	14-JUN-2006 17:09	1.0	1.0		1	5000		2:CA=137757
066	061406ar	SAMPLE	187354-002	114393	Filtra	14-JUN-2006 17:12	1.0	1.0			5000		1:NA=221828
067	061406ar	SAMPLE	187354-003	114393	Filtra	14-JUN-2006 17:15	1.0	1.0			5000		2:CA=451099
068	061406ar	SAMPLE	187354-005	114393	Filtra	14-JUN-2006 17:20	1.0	1.0			5000		1:CA=103026
069	061406ar	SAMPLE	187354-006	114393	Filtra	14-JUN-2006 17:24	1.0	1.0			5000		1:NA=812495
070	061406ar	SAMPLE	187354-007	114393	Filtra	14-JUN-2006 17:28	1.0	1.0			5000		
071	061406ar	X	RINSE			14-JUN-2006 17:31	1.0						
072	061406ar	CCV				14-JUN-2006 17:35	1.0	1.0			5000	9	
073	061406ar	X	FLUSH			14-JUN-2006 17:38	1.0						
074	061406ar	CCB				14-JUN-2006 17:41	1.0	1.0			5000		
075	061406ar	SAMPLE	187354-008	114393	Filtra	14-JUN-2006 17:46	1.0	1.0			5000		2:NA=305345
076	061406ar	SAMPLE	187354-009	114393	Filtra	14-JUN-2006 17:50	1.0	1.0			5000		1:NA=235847
077	061406ar	SAMPLE	187354-010	114393	Filtra	14-JUN-2006 17:54	1.0	1.0			5000		3:MG=517407
078	061406ar	ICSAB				14-JUN-2006 17:57	1.0	1.0			5000	8	5:AL=504343
079	061406ar	X	RINSE			14-JUN-2006 18:00	1.0						
080	061406ar	CCV				14-JUN-2006 18:04	1.0	1.0			5000	9	
081	061406ar	CCB				14-JUN-2006 18:08	1.0	1.0			5000		
082	061406ar	BLANK	QC343475	114296	Filtra	14-JUN-2006 18:12	1.0	1.0			5000		
083	061406ar	BS	QC343476	114296	Filtra	14-JUN-2006 18:16	1.0	1.0	1		5000		
084	061406ar	BSD	QC343477	114296	Filtra	14-JUN-2006 18:19	1.0	1.0	1		5000		
085	061406ar	MSS	187065-001	114296	Filtra	14-JUN-2006 18:22	1.0	1.0	2		5000		1:NA=208749
086	061406ar	MS	QC343478	114296	Filtra	14-JUN-2006 18:26	1.0	1.0	1		5000		1:NA=231596
087	061406ar	MSD	QC343479	114296	Filtra	14-JUN-2006 18:28	1.0	1.0	1		5000		1:NA=230639
088	061406ar	MSS	187065-001	114296	Filtra	14-JUN-2006 18:31	10.0	1.0			5000		
089	061406ar	SER	QC343480	114296	Filtra	14-JUN-2006 18:34	5.0	1.0			5000		
090	061406ar	PDS	QC343481	114296	Filtra	14-JUN-2006 18:37	1.0	1.0			5000		1:NA=224341
091	061406ar	SER	QC343480	114296	Filtra	14-JUN-2006 18:40	50.0	1.0			5000		
092	061406ar	X	RINSE			14-JUN-2006 18:43	1.0						
093	061406ar	CCV				14-JUN-2006 18:47	1.0	1.0	1		5000	9	

Stds used: 1=S3580 2=S3582 3=S3581 4=S3583 5=S3584 6=S3684 7=S3254 8=S3527 9=S3685 10=S1792 11=S1793

Analyst: _____ Date: 6/14/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86238380 Instrument: MET08 PE ICP Begun: 14-JUN-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
094	061406ar	X				14-JUN-2006 18:48	1.0	1.0	8		5000	9	
095	061406ar	X	FLUSH			14-JUN-2006 18:50	1.0						
096	061406ar	CCB				14-JUN-2006 18:54	1.0	1.0			5000		
097	061406ar	SAMPLE	187065-002	114296	Filtra	14-JUN-2006 18:58	1.0	1.0	1		5000		
098	061406ar	SAMPLE	187065-003	114296	Filtra	14-JUN-2006 19:01	1.0	1.0	2		5000		1:NA=137641
099	061406ar	SAMPLE	187065-004	114296	Filtra	14-JUN-2006 19:05	1.0	1.0	2		5000		1:NA=231661
100	061406ar	SAMPLE	187065-005	114296	Filtra	14-JUN-2006 19:08	1.0	1.0	2		5000		1:NA=200883
101	061406ar	SAMPLE	187065-006	114296	Filtra	14-JUN-2006 19:11	1.0	1.0			5000		
102	061406ar	SAMPLE	187065-007	114296	Filtra	14-JUN-2006 19:15	1.0	1.0			5000		
103	061406ar	SAMPLE	187065-009	114296	Filtra	14-JUN-2006 19:19	1.0	1.0	2		5000		1:NA=334158
104	061406ar	SAMPLE	187065-011	114296	Filtra	14-JUN-2006 19:23	1.0	1.0	2		5000		1:NA=314596
105	061406ar	SAMPLE	187065-012	114296	Filtra	14-JUN-2006 19:27	1.0	1.0	5		5000		4:NA=483088
106	061406ar	SAMPLE	187065-013	114296	Filtra	14-JUN-2006 19:31	1.0	1.0	5		5000		4:NA=469367
107	061406ar	X	RINSE			14-JUN-2006 19:34	1.0						
108	061406ar	CCV				14-JUN-2006 19:38	1.0	1.0			5000	9	
109	061406ar	X	FLUSH			14-JUN-2006 19:41	1.0						
110	061406ar	CCB				14-JUN-2006 19:44	1.0	1.0			5000		
111	061406ar	SAMPLE	187065-014	114296	Filtra	14-JUN-2006 19:48	1.0	1.0	2		5000		
112	061406ar	SAMPLE	187065-015	114296	Filtra	14-JUN-2006 19:53	1.0	1.0	2		5000		
113	061406ar	SAMPLE	187065-016	114296	Filtra	14-JUN-2006 19:56	1.0	1.0	2		5000		
114	061406ar	SAMPLE	187065-017	114296	Filtra	14-JUN-2006 19:59	1.0	1.0	2		5000		
115	061406ar	ICSAB				14-JUN-2006 20:02	1.0	1.0			5000	8	5:AL=509184
116	061406ar	X	RINSE			14-JUN-2006 20:05	1.0						
117	061406ar	CCV				14-JUN-2006 20:09	1.0	1.0	2		5000	9	
118	061406ar	X				14-JUN-2006 20:10	1.0	1.0	8		5000	9	
119	061406ar	X	FLUSH			14-JUN-2006 20:12	1.0						
120	061406ar	CCB				14-JUN-2006 20:16	1.0	1.0			5000		

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Stds used: 1=S3580 2=S3582 3=S3581 4=S3583 5=S3584 6=S3684 7=S3254 8=S3527 9=S3685 10=S1792 11=S1793

Analyst: AG Date: 6/14/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

st : MET08
lnum : 86239531001
its : ug/L

Date : 15-JUN-2006 08:11
X Axis : R

Reviewer: ---

vel	File	Seqnum	Sample ID	Analyzed	Stds
1	061506r.txt	86239531002	CRIM08	15-JUN-2006 08:15	S3580
2	061506r.txt	86239531003	CS100	15-JUN-2006 08:19	S3582
3	061506r.txt	86239531004	CS1K	15-JUN-2006 08:22	S3581
4	061506r.txt	86239531005	CS10K	15-JUN-2006 08:24	S3583
5	061506r.txt	86239531006	CS100K	15-JUN-2006 08:27	S3584

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
timony	A	38.990	35.681	36.107	35.808		LOR0	0.00000	0.02792		36.646	1.000	0.995	
senic	A	20.773	21.053	21.191	20.598		LOR0	0.00000	0.04853		20.904	1.000	0.995	
rium	A	440.61	428.24	428.43	415.03		LOR0	0.00000	0.00241		428.08	1.000	0.995	
ryllium	A	3505.6	3599.4	3642.1			LOR0	0.00000	2.75E-4		3582.4	1.000	0.995	
ron	A	179.21		183.98	181.16		LOR0	0.00000	0.00552		181.45	1.000	0.995	
dmium	A	341.77	343.14	349.47	334.52		LOR0	0.00000	0.00299		342.23	1.000	0.995	
romium	A	91.674	91.271	91.252	88.016		LOR0	0.00000	0.01136		90.553	1.000	0.995	
balt	A	111.14	113.70	117.18	112.34		LOR0	0.00000	0.00890		113.59	1.000	0.995	
pper	A	704.39	677.56	709.14	701.49		LOR0	0.00000	0.00143		698.14	1.000	0.995	
ad	A	51.754	54.076	54.603	52.320		LOR0	0.00000	0.01910		53.188	1.000	0.995	
nganese	A	986.25	976.35	976.53	924.97		LOR0	0.00000	0.00108		966.02	1.000	0.995	
lybdenum	A	45.664	43.653	43.495	42.894		LOR0	0.00000	0.02331		43.926	1.000	0.995	
ckel	A	64.222	60.493	62.240	59.595		LOR0	0.00000	0.01677		61.637	1.000	0.995	
lenium	A	13.569	21.032	21.204	21.223		LOR0	0.00000	0.04712		19.257	1.000	0.995	
lver	A	372.23	418.14	437.63	440.09		LOR0	0.00000	0.00228		417.02	1.000	0.995	
allium	A	24.623	20.661	20.939	20.352		LOR0	0.00000	0.04912		21.644	1.000	0.995	
in	A	18.255	21.178	21.651	21.460		LOR0	0.00000	0.04659		20.636	1.000	0.995	
itanium	A	1076.2	1091.3	1095.2	1020.0		LOR0	0.00000	9.80E-4		1070.7	1.000	0.995	
anadium	A	132.98	132.04	133.24	132.02		LOR0	0.00000	0.00757		132.57	1.000	0.995	
inc	A	143.85	144.90	122.42	117.30		LOR0	0.00000	0.00852		132.12	1.000	0.995	
luminum	R	1.6322		1.7726	1.6468	1.6728	LOR0	0.00000	0.59789		1.6811	1.000	0.995	
alcium	R	16.593		15.163	12.457	12.285	LOR0	0.00000	0.08138		14.125	1.000	0.995	
ron	R	9.6870		10.600	9.8097	9.3584	LOR0	0.00000	0.10680		9.8637	1.000	0.995	
agnesium	R	2.2283		2.4503	2.2652	2.2100	LOR0	0.00000	0.45237		2.2885	1.000	0.995	
otassium	R	6.4008		6.2960	6.1717	6.1646	LOR0	0.00000	0.16221		6.2583	1.000	0.995	
odium	R	10.686		12.201	10.734	10.413	LOR0	0.00000	0.09600		11.008	1.000	0.995	

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strument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

86239531001

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/15/2006 8:11:03 AM
Data Type: Reprocessed on 6/15/2006 9:08:01 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	154.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	-1642.9	144.74	8.81%	[0.00]	ug/L
Al 308.215 R	95.7	3.91	4.09%	[0.00]	ug/L
As 188.979	-90.6	17.46	19.27%	[0.00]	ug/L
B 249.677	-189.2	15.41	8.14%	[0.00]	ug/L
Ba 233.527	-7.1	13.50	191.09%	[0.00]	ug/L
Be 313.107	-418.6	112.09	26.78%	[0.00]	ug/L
Ca 315.887 R	238.4	14.66	6.15%	[0.00]	ug/L
Cd 214.440	-33.4	3.22	9.63%	[0.00]	ug/L
Co 228.616	-181.8	2.84	1.56%	[0.00]	ug/L
Cr 267.716	-230.7	4.96	2.15%	[0.00]	ug/L
Cu 324.752	-316.7	119.15	37.62%	[0.00]	ug/L
Fe 238.204 R	98.1	4.21	4.29%	[0.00]	ug/L
K 766.490 R	-5366.1	90.30	1.68%	[0.00]	ug/L
Mg 279.077 R	-104.3	1.18	1.14%	[0.00]	ug/L
Mn 257.610	305.6	47.08	15.41%	[0.00]	ug/L
Mo 202.031	-31.8	6.59	20.71%	[0.00]	ug/L
Na 589.592 R	1506.2	20.83	1.38%	[0.00]	ug/L
Ni 231.604	266.2	11.04	4.15%	[0.00]	ug/L
Pb 220.353	48.0	14.94	31.13%	[0.00]	ug/L
Sb 206.836	637.2	15.57	2.44%	[0.00]	ug/L
Se 196.026	-72.6	3.16	4.35%	[0.00]	ug/L
Ti 334.940 R	218.2	146.70	67.25%	[0.00]	ug/L
Tl 190.801	121.5	10.98	9.04%	[0.00]	ug/L
V 292.402	-1247.0	11.46	0.92%	[0.00]	ug/L
Zn 206.200	-812.4	4.65	0.57%	[0.00]	ug/L
Sn 189.927	152.0	232.10	152.69%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 6/15/2006 8:15:11 AM
Data Type: Reprocessed on 6/15/2006 9:08:02 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2480063.5	73262.98	2.95%	100.0	%
Y	413803.2	33158.68	8.01%	100.0	%
Ag 328.068†	1861.2	179.19	9.63%	[5.0]	ug/L
Al 308.215 R†	163.2	22.15	13.57%	[100]	ug/L
As 188.979†	103.9	8.02	7.72%	[5.0]	ug/L
B 249.677†	17921.2	524.81	2.93%	[100]	ug/L
Ba 233.527†	2203.0	75.31	3.42%	[5.0]	ug/L
Be 313.107†	7011.2	108.60	1.55%	[2.0]	ug/L
Ca 315.887 R†	3318.7	265.10	7.99%	[200]	ug/L
Cd 214.440†	1708.8	65.00	3.80%	[5.0]	ug/L
Co 228.616†	555.7	5.59	1.01%	[5.0]	ug/L
Cr 267.716†	458.4	11.00	2.40%	[5.0]	ug/L
Cu 324.752†	3521.9	72.82	2.07%	[5.0]	ug/L
Fe 238.204 R†	968.7	74.67	7.71%	[100]	ug/L
K 766.490 R†	3200.4	447.33	13.98%	[500]	ug/L
Mg 279.077 R†	445.7	25.40	5.70%	[200]	ug/L
Mn 257.610†	4931.3	162.72	3.30%	[5.0]	ug/L
Mo 202.031†	228.3	5.51	2.41%	[5.0]	ug/L
Na 589.592 R†	5343.1	437.82	8.19%	[500]	ug/L
Ni 231.604†	321.1	14.55	4.53%	[5.0]	ug/L
Pb 220.353†	155.3	25.06	16.14%	[3.0]	ug/L
Sb 206.836†	195.0	40.54	20.79%	[5.0]	ug/L
Se 196.026†	67.8	17.70	26.09%	[5.0]	ug/L
Ti 334.940 R†	10762.2	86.94	0.81%	[10]	ug/L
Tl 190.801†	123.1	6.38	5.18%	[5.0]	ug/L
V 292.402†	664.9	22.90	3.44%	[5.0]	ug/L
Zn 206.200†	2877.0	80.28	2.79%	[20]	ug/L
Sn 189.927†	730.2	57.12	7.82%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/15/2006 8:19:16 AM
Data Type: Reprocessed on 6/15/2006 9:08:03 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	154.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std:Dev.	RSD	Conc.	Calib Units
Y 371.029	2529341.3	21731.16	0.86%	102.0	%
Y	369249.6	8534.72	2.31%	89.23	%
Ag 328.068†	41814.3	559.83	1.34%	[100]	ug/L
As 188.979†	2105.3	23.60	1.12%	[100]	ug/L
Ba 233.527†	42823.9	420.88	0.98%	[100]	ug/L
Be 313.107†	359943.5	1270.45	0.35%	[100]	ug/L
Cd 214.440†	34314.3	198.16	0.58%	[100]	ug/L
Co 228.616†	11370.2	106.20	0.93%	[100]	ug/L
Cr 267.716†	9127.1	118.56	1.30%	[100]	ug/L
Cu 324.752†	67755.7	361.50	0.53%	[100]	ug/L
Mn 257.610†	97634.5	768.33	0.79%	[100]	ug/L
Mo 202.031†	4365.3	18.46	0.42%	[100]	ug/L
Ni 231.604†	6049.3	65.32	1.08%	[100]	ug/L
Pb 220.353†	5407.6	83.51	1.54%	[100]	ug/L
Sb 206.836†	3568.1	61.81	1.73%	[100]	ug/L
Se 196.026†	2103.2	48.80	2.32%	[100]	ug/L
Ti 334.940 R†	109134.5	550.30	0.50%	[100]	ug/L
Tl 190.801†	2066.1	13.58	0.66%	[100]	ug/L
V 292.402†	13204.1	137.26	1.04%	[100]	ug/L
Zn 206.200†	14490.4	152.61	1.05%	[100]	ug/L
Sn 189.927†	2117.8	222.08	10.49%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/15/2006 8:22:23 AM
Data Type: Reprocessed on 6/15/2006 9:08:04 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2531647.4	24477.27	0.97%	102.1	%
Y	377019.3	17336.27	4.60%	91.11	%
Ag 328.068†	437625.1	1174.36	0.27%	[1000]	ug/L
Al 308.215 R†	1772.6	47.55	2.68%	[1000]	ug/L
As 188.979†	21190.8	246.87	1.16%	[1000]	ug/L
B 249.677†	183976.1	1274.10	0.69%	[1000]	ug/L
Ba 233.527†	428426.2	2403.02	0.56%	[1000]	ug/L
Be 313.107†	3642094.7	10536.33	0.29%	[1000]	ug/L
Ca 315.887 R†	15162.6	587.14	3.87%	[1000]	ug/L
Cd 214.440†	349468.0	1385.20	0.40%	[1000]	ug/L
Co 228.616†	117176.9	1086.03	0.93%	[1000]	ug/L
Cr 267.716†	91252.1	657.12	0.72%	[1000]	ug/L
Cu 324.752†	709135.5	4130.11	0.58%	[1000]	ug/L
Fe 238.204 R†	10599.6	369.35	3.48%	[1000]	ug/L
K 766.490 R†	6296.0	196.32	3.12%	[1000]	ug/L
Mg 279.077 R†	2450.3	88.53	3.61%	[1000]	ug/L
Mn 257.610†	976529.5	4847.72	0.50%	[1000]	ug/L
Mo 202.031†	43495.2	205.55	0.47%	[1000]	ug/L
Na 589.592 R†	12200.7	528.81	4.33%	[1000]	ug/L
Ni 231.604†	62240.0	501.82	0.81%	[1000]	ug/L
Pb 220.353†	54602.5	540.45	0.99%	[1000]	ug/L
Sb 206.836†	36106.8	656.34	1.82%	[1000]	ug/L
Se 196.026†	21204.1	298.44	1.41%	[1000]	ug/L
Ti 334.940 R†	1095188.2	6237.31	0.57%	[1000]	ug/L
Tl 190.801†	20939.5	172.61	0.82%	[1000]	ug/L
V 292.402†	133237.9	1003.45	0.75%	[1000]	ug/L
Zn 206.200†	122417.6	1155.29	0.94%	[1000]	ug/L
Sn 189.927†	21650.8	218.82	1.01%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/15/2006 8:24:37 AM
Data Type: Reprocessed on 6/15/2006 9:08:06 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2457734.6	18555.36	0.75%	99.10	%
Y	384838.0	8736.81	2.27%	93.00	%
Ag 328.068†	880176.9	17999.49	2.04%	[2000]	ug/L
Al 308.215 R†	16468.0	140.90	0.86%	[10000]	ug/L
As 188.979†	205978.9	4615.83	2.24%	[10000]	ug/L
B 249.677†	1811603.2	13684.51	0.76%	[10000]	ug/L
Ba 233.527†	4150279.5	19471.67	0.47%	[10000]	ug/L
Ca 315.887 R†	124569.2	453.39	0.36%	[10000]	ug/L
Cd 214.440†	3345232.5	17949.11	0.54%	[10000]	ug/L
Co 228.616†	1123360.3	11326.59	1.01%	[10000]	ug/L
Cr 267.716†	880164.7	18760.98	2.13%	[10000]	ug/L
Cu 324.752†	7014885.5	37922.48	0.54%	[10000]	ug/L
Fe 238.204 R†	98097.0	879.34	0.90%	[10000]	ug/L
K 766.490 R†	61716.7	437.09	0.71%	[10000]	ug/L
Mg 279.077 R†	22652.3	130.44	0.58%	[10000]	ug/L
Mn 257.610†	9249711.4	47950.28	0.52%	[10000]	ug/L
Mo 202.031†	428936.0	9143.07	2.13%	[10000]	ug/L
Na 589.592 R†	107335.3	856.71	0.80%	[10000]	ug/L
Ni 231.604†	595947.1	12294.24	2.06%	[10000]	ug/L
Pb 220.353†	523199.5	9954.07	1.90%	[10000]	ug/L
Sb 206.836†	358079.9	6675.24	1.86%	[10000]	ug/L
Se 196.026†	212230.5	5235.02	2.47%	[10000]	ug/L
Ti 334.940 R†	10200150.9	60650.22	0.59%	[10000]	ug/L
Tl 190.801†	203524.2	3657.68	1.80%	[10000]	ug/L
V 292.402†	1320226.7	9671.02	0.73%	[10000]	ug/L
Zn 206.200†	1172980.3	11534.24	0.98%	[10000]	ug/L
Sn 189.927†	214601.8	4033.13	1.88%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 6/15/2006 8:27:26 AM
Data Type: Reprocessed on 6/15/2006 9:08:06 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2286063.1	3858.33	0.17%	92.18	%
Y	363500.3	6165.37	1.70%	87.84	%
Al 308.215 R†	167278.9	1024.29	0.61%	[100000]	ug/L
Ca 315.887 R†	1228528.6	16202.00	1.32%	[100000]	ug/L
Fe 238.204 R†	935840.3	5398.37	0.58%	[100000]	ug/L
K 766.490 R†	616460.1	7481.84	1.21%	[100000]	ug/L
Mg 279.077 R†	221002.6	2338.72	1.06%	[100000]	ug/L
Na 589.592 R†	1041298.1	11640.26	1.12%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	439.6	0.00000	0.999995	
Al 308.215 R	4	Lin Thru 0	0.0	1.673	0.00000	0.999999	
As 188.979	4	Lin Thru 0	0.0	20.60	0.00000	0.999996	
B 249.677	3	Lin Thru 0	0.0	181.2	0.00000	0.999999	
Ba 233.527	4	Lin Thru 0	0.0	415.2	0.00000	0.999995	
Be 313.107	3	Lin Thru 0	0.0	3642	0.00000	0.999999	
Ca 315.887 R	4	Lin Thru 0	0.0	12.29	0.00000	0.999996	
Cd 214.440	4	Lin Thru 0	0.0	334.7	0.00000	0.999990	
Co 228.616	4	Lin Thru 0	0.0	112.4	0.00000	0.999991	
Cr 267.716	4	Lin Thru 0	0.0	88.05	0.00000	0.999993	
Cu 324.752	4	Lin Thru 0	0.0	701.6	0.00000	0.999999	
Fe 238.204 R	4	Lin Thru 0	0.0	9.363	0.00000	0.999988	
K 766.490 R	4	Lin Thru 0	0.0	6.165	0.00000	1.000000	
Mg 279.077 R	4	Lin Thru 0	0.0	2.211	0.00000	0.999996	
Mn 257.610	4	Lin Thru 0	0.0	925.5	0.00000	0.999985	
Mo 202.031	4	Lin Thru 0	0.0	42.90	0.00000	0.999999	
Na 589.592 R	4	Lin Thru 0	0.0	10.42	0.00000	0.999994	
Ni 231.604	4	Lin Thru 0	0.0	59.62	0.00000	0.999990	
Pb 220.353	4	Lin Thru 0	0.0	52.34	0.00000	0.999991	
Sb 206.836	4	Lin Thru 0	0.0	35.81	0.00000	1.000000	
Se 196.026	4	Lin Thru 0	0.0	21.22	0.00000	1.000000	
Ti 334.940 R	4	Lin Thru 0	0.0	1021	0.00000	0.999973	
Tl 190.801	4	Lin Thru 0	0.0	20.36	0.00000	0.999996	
V 292.402	4	Lin Thru 0	0.0	132.0	0.00000	1.000000	
Zn 206.200	4	Lin Thru 0	0.0	117.4	0.00000	0.999988	
Sn 189.927	4	Lin Thru 0	0.0	21.46	0.00000	0.999999	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86239531007 File : 061506r.txt Time : 15-JUN-2006 08:30
Cal : 86239531001 Caldate: 15-JUN-2006
Standards: S3684

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	36.646	36.768	5000	5134	ug/L	3	10	
Arsenic	A	20.904	21.436	5000	5202	ug/L	4	10	
Barium	A	428.08	422.84	5000	5093	ug/L	2	10	
Beryllium	A	3582.4	3686.0	500.0	506.1	ug/L	1	10	
Boron	A	181.45	189.41	5000	5227	ug/L	5	10	
Cadmium	A	342.23	340.52	5000	5087	ug/L	2	10	
Chromium	A	90.553	89.198	5000	5065	ug/L	1	10	
Cobalt	A	113.59	112.29	5000	4985	ug/L	0	10	
Copper	A	698.14	681.87	5000	4860	ug/L	-3	10	
Lead	A	53.188	51.955	5000	4963	ug/L	-1	10	
Manganese	A	966.02	923.94	5000	4992	ug/L	0	10	
Molybdenum	A	43.926	44.519	5000	5189	ug/L	4	10	
Nickel	A	61.637	59.500	5000	4990	ug/L	0	10	
Selenium	A	19.257	21.223	5000	5000	ug/L	0	10	
Silver	A	417.02	423.91	1000	964.4	ug/L	-4	10	
Thallium	A	21.644	20.109	5000	4939	ug/L	-1	10	
Tin	A	20.636	21.073	5000	4909	ug/L	-2	10	
Titanium	A	1070.7	1068.1	5000	5232	ug/L	5	10	
Vanadium	A	132.57	135.51	5000	5132	ug/L	3	10	
Zinc	A	132.12	119.49	5000	5091	ug/L	2	10	
Aluminum	R	1.6811	1.7019	20000	20350	ug/L	2	10	
Calcium	R	14.125	12.910	20000	21010	ug/L	5	10	
Iron	R	9.8637	9.8864	20000	21120	ug/L	6	10	
Magnesium	R	2.2885	2.3443	20000	21210	ug/L	6	10	
Potassium	R	6.2583	6.2944	20000	20420	ug/L	2	10	
Sodium	R	11.008	10.912	20000	20950	ug/L	5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2370515	-4.42

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

nst : MET08
eqnum : 86239531020
al : 86239531001
tandards: S3685

File : 061506r.txt
Caldate: 15-JUN-2006

IDF : 1.0
Time : 15-JUN-2006 09:33

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	36.646	37.265	5000	5203	ug/L	4	10	
Arsenic	A	20.904	21.511	5000	5220	ug/L	4	10	
Barium	A	428.08	424.81	5000	5116	ug/L	2	10	
Beryllium	A	3582.4	3685.3	500.0	506.0	ug/L	1	10	
Boron	A	181.45	189.15	5000	5220	ug/L	4	10	
Cadmium	A	342.23	343.25	5000	5128	ug/L	3	10	
Chromium	A	90.553	89.085	5000	5059	ug/L	1	10	
Cobalt	A	113.59	113.18	5000	5025	ug/L	0	10	
Copper	A	698.14	681.86	5000	4860	ug/L	-3	10	
Lead	A	53.188	51.968	5000	4964	ug/L	-1	10	
Manganese	A	966.02	929.03	5000	5019	ug/L	0	10	
Molybdenum	A	43.926	44.437	5000	5179	ug/L	4	10	
Nickel	A	61.637	59.765	5000	5012	ug/L	0	10	
Selenium	A	19.257	21.354	5000	5031	ug/L	1	10	
Silver	A	417.02	421.75	1000	959.5	ug/L	-4	10	
Thallium	A	21.644	20.170	5000	4954	ug/L	-1	10	
Tin	A	20.636	21.053	5000	4905	ug/L	-2	10	
Titanium	A	1070.7	1072.1	5000	5252	ug/L	5	10	
Vanadium	A	132.57	136.10	5000	5154	ug/L	3	10	
Zinc	A	132.12	120.40	5000	5130	ug/L	3	10	
Aluminum	R	1.6811	1.6169	20000	19330	ug/L	-3	10	
Calcium	R	14.125	12.267	20000	19970	ug/L	0	10	
Iron	R	9.8637	9.4207	20000	20120	ug/L	1	10	
Magnesium	R	2.2885	2.2372	20000	20240	ug/L	1	10	
Potassium	R	6.2583	6.1428	20000	19930	ug/L	0	10	
Sodium	R	11.008	10.325	20000	19820	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2399984	-3.23

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

nst : MET08
eqnum : 86239531034
al : 86239531001
tandards: S3685

File : 061506r.txt
Caldate: 15-JUN-2006

IDF : 1.0
Time : 15-JUN-2006 10:11

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	36.646	37.839	5000	5283	ug/L	6	10	
Arsenic	A	20.904	21.935	5000	5323	ug/L	6	10	
Barium	A	428.08	427.34	5000	5147	ug/L	3	10	
Beryllium	A	3582.4	3695.5	500.0	507.4	ug/L	1	10	
Boron	A	181.45	189.44	5000	5228	ug/L	5	10	
Cadmium	A	342.23	346.17	5000	5172	ug/L	3	10	
Chromium	A	90.553	90.401	5000	5134	ug/L	3	10	
Cobalt	A	113.59	114.10	5000	5066	ug/L	1	10	
Copper	A	698.14	685.31	5000	4884	ug/L	-2	10	
Lead	A	53.188	52.947	5000	5058	ug/L	1	10	
Manganese	A	966.02	933.98	5000	5046	ug/L	1	10	
Molybdenum	A	43.926	45.090	5000	5255	ug/L	5	10	
Nickel	A	61.637	60.799	5000	5099	ug/L	2	10	
Selenium	A	19.257	21.844	5000	5146	ug/L	3	10	
Silver	A	417.02	425.88	1000	968.9	ug/L	-3	10	
Thallium	A	21.644	20.479	5000	5030	ug/L	1	10	
Tin	A	20.636	21.548	5000	5020	ug/L	0	10	
Titanium	A	1070.7	1079.7	5000	5289	ug/L	6	10	
Vanadium	A	132.57	136.10	5000	5154	ug/L	3	10	
Zinc	A	132.12	121.47	5000	5175	ug/L	4	10	
Aluminum	R	1.6811	1.5872	20000	18980	ug/L	-5	10	
Calcium	R	14.125	12.183	20000	19830	ug/L	-1	10	
Iron	R	9.8637	9.3696	20000	20010	ug/L	0	10	
Magnesium	R	2.2885	2.2456	20000	20320	ug/L	2	10	
Potassium	R	6.2583	6.2321	20000	20220	ug/L	1	10	
Sodium	R	11.008	10.274	20000	19730	ug/L	-1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2403554	-3.08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

nst : MET08
eqnum : 86239531057
al : 86239531001
tandards: S3685

File : 061506r.txt
Caldate: 15-JUN-2006

IDF : 1.0
Time : 15-JUN-2006 11:21

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	36.646	37.829	5000	5282	ug/L	6	10	
Arsenic	A	20.904	21.775	5000	5284	ug/L	6	10	
Barium	A	428.08	427.42	5000	5148	ug/L	3	10	
Beryllium	A	3582.4	3693.3	500.0	507.1	ug/L	1	10	
Boron	A	181.45	190.46	5000	5256	ug/L	5	10	
Cadmium	A	342.23	344.69	5000	5150	ug/L	3	10	
Chromium	A	90.553	89.881	5000	5104	ug/L	2	10	
Cobalt	A	113.59	114.25	5000	5072	ug/L	1	10	
Copper	A	698.14	686.17	5000	4890	ug/L	-2	10	
Lead	A	53.188	52.350	5000	5001	ug/L	0	10	
Manganese	A	966.02	929.63	5000	5022	ug/L	0	10	
Molybdenum	A	43.926	44.577	5000	5196	ug/L	4	10	
Nickel	A	61.637	60.457	5000	5070	ug/L	1	10	
Selenium	A	19.257	21.549	5000	5077	ug/L	2	10	
Silver	A	417.02	423.97	1000	964.5	ug/L	-4	10	
Thallium	A	21.644	20.153	5000	4950	ug/L	-1	10	
Tin	A	20.636	21.437	5000	4994	ug/L	0	10	
Titanium	A	1070.7	1080.6	5000	5293	ug/L	6	10	
Vanadium	A	132.57	136.51	5000	5169	ug/L	3	10	
Zinc	A	132.12	120.72	5000	5144	ug/L	3	10	
Aluminum	R	1.6811	1.5596	20000	18650	ug/L	-7	10	
Calcium	R	14.125	12.094	20000	19690	ug/L	-2	10	
Iron	R	9.8637	9.2474	20000	19750	ug/L	-1	10	
Magnesium	R	2.2885	2.2067	20000	19960	ug/L	0	10	
Potassium	R	6.2583	6.2183	20000	20170	ug/L	1	10	
Sodium	R	11.008	10.209	20000	19600	ug/L	-2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2429857	-2.02

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86239531065 File : 061506r.txt Time : 15-JUN-2006 12:21
Cal : 86239531001 Caldate: 15-JUN-2006
Standards: S3685

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	36.646	39.039	5000	5451	ug/L	9	10	
Arsenic	A	20.904	22.287	5000	5408	ug/L	8	10	
Barium	A	428.08	435.28	5000	5242	ug/L	5	10	
Beryllium	A	3582.4	3742.7	500.0	513.9	ug/L	3	10	
Boron	A	181.45	193.02	5000	5326	ug/L	7	10	
Cadmium	A	342.23	351.16	5000	5246	ug/L	5	10	
Chromium	A	90.553	91.854	5000	5216	ug/L	4	10	
Cobalt	A	113.59	116.28	5000	5163	ug/L	3	10	
Copper	A	698.14	694.21	5000	4948	ug/L	-1	10	
Lead	A	53.188	53.455	5000	5106	ug/L	2	10	
Manganese	A	966.02	944.78	5000	5104	ug/L	2	10	
Molybdenum	A	43.926	45.505	5000	5304	ug/L	6	10	
Nickel	A	61.637	61.850	5000	5187	ug/L	4	10	
Selenium	A	19.257	22.216	5000	5234	ug/L	5	10	
Silver	A	417.02	433.10	1000	985.3	ug/L	-1	10	
Thallium	A	21.644	20.696	5000	5083	ug/L	2	10	
Tin	A	20.636	21.927	5000	5108	ug/L	2	10	
Titanium	A	1070.7	1099.7	5000	5386	ug/L	8	10	
Vanadium	A	132.57	137.79	5000	5218	ug/L	4	10	
Zinc	A	132.12	122.94	5000	5238	ug/L	5	10	
Aluminum	R	1.6811	1.6021	20000	19160	ug/L	-4	10	
Calcium	R	14.125	12.398	20000	20180	ug/L	1	10	
Iron	R	9.8637	9.5548	20000	20410	ug/L	2	10	
Magnesium	R	2.2885	2.2889	20000	20710	ug/L	4	10	
Potassium	R	6.2583	6.5159	20000	21140	ug/L	6	10	
Sodium	R	11.008	10.443	20000	20050	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2377522	-4.13

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86239531078 File : 061506r.txt Time : 15-JUN-2006 13:15
Cal : 86239531001 Caldate: 15-JUN-2006
Standards: S3685

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	36.646	38.859	5000	5426	ug/L	9	10	
Arsenic	A	20.904	22.369	5000	5428	ug/L	9	10	
Barium	A	428.08	432.02	5000	5203	ug/L	4	10	
Beryllium	A	3582.4	3713.1	500.0	509.8	ug/L	2	10	
Boron	A	181.45	195.85	5000	5405	ug/L	8	10	
Cadmium	A	342.23	350.90	5000	5242	ug/L	5	10	
Chromium	A	90.553	91.435	5000	5192	ug/L	4	10	
Cobalt	A	113.59	115.70	5000	5137	ug/L	3	10	
Copper	A	698.14	686.62	5000	4893	ug/L	-2	10	
Lead	A	53.188	53.684	5000	5128	ug/L	3	10	
Manganese	A	966.02	936.74	5000	5061	ug/L	1	10	
Molybdenum	A	43.926	46.474	5000	5417	ug/L	8	10	
Nickel	A	61.637	61.888	5000	5190	ug/L	4	10	
Selenium	A	19.257	22.303	5000	5255	ug/L	5	10	
Silver	A	417.02	428.42	1000	974.7	ug/L	-3	10	
Thallium	A	21.644	20.739	5000	5094	ug/L	2	10	
Tin	A	20.636	22.179	5000	5167	ug/L	3	10	
Titanium	A	1070.7	1090.6	5000	5342	ug/L	7	10	
Vanadium	A	132.57	136.91	5000	5185	ug/L	4	10	
Zinc	A	132.12	123.03	5000	5242	ug/L	5	10	
Aluminum	R	1.6811	1.5699	20000	18770	ug/L	-6	10	
Calcium	R	14.125	12.183	20000	19830	ug/L	-1	10	
Iron	R	9.8637	9.3318	20000	19930	ug/L	0	10	
Magnesium	R	2.2885	2.2630	20000	20470	ug/L	2	10	
Potassium	R	6.2583	6.4173	20000	20820	ug/L	4	10	
Sodium	R	11.008	10.223	20000	19630	ug/L	-2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2410254	-2.81

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

nst : MET08
eqnum : 86239531088
al : 86239531001
tandards: S3685

File : 061506r.txt
Caldate: 15-JUN-2006

IDF : 1.0
Time : 15-JUN-2006 13:48

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	36.646	38.863	5000	5426	ug/L	9	10	
Arsenic	A	20.904	22.255	5000	5401	ug/L	8	10	
Barium	A	428.08	427.61	5000	5150	ug/L	3	10	
Beryllium	A	3582.4	3677.8	500.0	505.0	ug/L	1	10	
Boron	A	181.45	189.28	5000	5223	ug/L	4	10	
Cadmium	A	342.23	344.99	5000	5154	ug/L	3	10	
Chromium	A	90.553	91.433	5000	5192	ug/L	4	10	
Cobalt	A	113.59	114.12	5000	5067	ug/L	1	10	
Copper	A	698.14	682.45	5000	4864	ug/L	-3	10	
Lead	A	53.188	53.292	5000	5091	ug/L	2	10	
Manganese	A	966.02	928.75	5000	5018	ug/L	0	10	
Molybdenum	A	43.926	45.201	5000	5268	ug/L	5	10	
Nickel	A	61.637	61.662	5000	5171	ug/L	3	10	
Selenium	A	19.257	22.160	5000	5221	ug/L	4	10	
Silver	A	417.02	430.29	1000	978.9	ug/L	-2	10	
Thallium	A	21.644	20.618	5000	5064	ug/L	1	10	
Tin	A	20.636	21.972	5000	5119	ug/L	2	10	
Titanium	A	1070.7	1080.8	5000	5294	ug/L	6	10	
Vanadium	A	132.57	135.70	5000	5139	ug/L	3	10	
Zinc	A	132.12	120.81	5000	5147	ug/L	3	10	
Aluminum	R	1.6811	1.5942	20000	19060	ug/L	-5	10	
Calcium	R	14.125	12.370	20000	20140	ug/L	1	10	
Iron	R	9.8637	9.4698	20000	20230	ug/L	1	10	
Magnesium	R	2.2885	2.2773	20000	20600	ug/L	3	10	
Potassium	R	6.2583	6.5097	20000	21120	ug/L	6	10	
Sodium	R	11.008	10.433	20000	20030	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2381497	-3.97

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

nst : MET08
eqnum : 86239531102
al : 86239531001
tandards: S3685

File : 061506r.txt
Caldate: 15-JUN-2006

IDF : 1.0
Time : 15-JUN-2006 14:39

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	36.646	37.268	5000	5203	ug/L	4	10	
Arsenic	A	20.904	21.290	5000	5167	ug/L	3	10	
Barium	A	428.08	417.04	5000	5023	ug/L	0	10	
Beryllium	A	3582.4	3586.3	500.0	492.4	ug/L	-2	10	
Boron	A	181.45	185.87	5000	5129	ug/L	3	10	
Cadmium	A	342.23	339.46	5000	5072	ug/L	1	10	
Chromium	A	90.553	87.181	5000	4951	ug/L	-1	10	
Cobalt	A	113.59	111.64	5000	4957	ug/L	-1	10	
Copper	A	698.14	664.58	5000	4736	ug/L	-5	10	
Lead	A	53.188	51.107	5000	4882	ug/L	-2	10	
Manganese	A	966.02	905.96	5000	4894	ug/L	-2	10	
Molybdenum	A	43.926	43.283	5000	5045	ug/L	1	10	
Nickel	A	61.637	58.836	5000	4934	ug/L	-1	10	
Selenium	A	19.257	21.229	5000	5001	ug/L	0	10	
Silver	A	417.02	410.07	1000	932.9	ug/L	-7	10	
Thallium	A	21.644	19.713	5000	4842	ug/L	-3	10	
Tin	A	20.636	21.070	5000	4909	ug/L	-2	10	
Titanium	A	1070.7	1053.0	5000	5158	ug/L	3	10	
Vanadium	A	132.57	132.46	5000	5016	ug/L	0	10	
Zinc	A	132.12	119.11	5000	5075	ug/L	1	10	
Aluminum	R	1.6811	1.5098	20000	18050	ug/L	-10	10	
Calcium	R	14.125	11.807	20000	19220	ug/L	-4	10	
Iron	R	9.8637	9.0057	20000	19240	ug/L	-4	10	
Magnesium	R	2.2885	2.1822	20000	19740	ug/L	-1	10	
Potassium	R	6.2583	6.2385	20000	20240	ug/L	1	10	
Sodium	R	11.008	9.9116	20000	19030	ug/L	-5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2508003	1.13

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86239531110 File : 061506r.txt Time : 15-JUN-2006 15:06
Cal : 86239531001 Caldate: 15-JUN-2006
Standards: S3685

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	36.646	37.712	5000	5265	ug/L	5	10	
Arsenic	A	20.904	21.587	5000	5239	ug/L	5	10	
Barium	A	428.08	424.60	5000	5114	ug/L	2	10	
Beryllium	A	3582.4	3652.2	500.0	501.4	ug/L	0	10	
Boron	A	181.45	188.63	5000	5205	ug/L	4	10	
Cadmium	A	342.23	344.44	5000	5146	ug/L	3	10	
Chromium	A	90.553	88.806	5000	5043	ug/L	1	10	
Cobalt	A	113.59	113.57	5000	5042	ug/L	1	10	
Copper	A	698.14	677.23	5000	4827	ug/L	-3	10	
Lead	A	53.188	51.875	5000	4955	ug/L	-1	10	
Manganese	A	966.02	923.35	5000	4988	ug/L	0	10	
Molybdenum	A	43.926	44.123	5000	5143	ug/L	3	10	
Nickel	A	61.637	59.901	5000	5023	ug/L	0	10	
Selenium	A	19.257	21.493	5000	5064	ug/L	1	10	
Silver	A	417.02	418.50	1000	952.1	ug/L	-5	10	
Thallium	A	21.644	20.066	5000	4928	ug/L	-1	10	
Tin	A	20.636	21.356	5000	4975	ug/L	0	10	
Titanium	A	1070.7	1073.5	5000	5258	ug/L	5	10	
Vanadium	A	132.57	134.90	5000	5109	ug/L	2	10	
Zinc	A	132.12	120.62	5000	5139	ug/L	3	10	
Aluminum	R	1.6811	1.5152	20000	18120	ug/L	-9	10	
Calcium	R	14.125	11.790	20000	19190	ug/L	-4	10	
Iron	R	9.8637	9.0734	20000	19380	ug/L	-3	10	
Magnesium	R	2.2885	2.1762	20000	19690	ug/L	-2	10	
Potassium	R	6.2583	6.2369	20000	20230	ug/L	1	10	
Sodium	R	11.008	9.9485	20000	19100	ug/L	-4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2410347	-2.81

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86239531127 File : 061506r.txt Time : 15-JUN-2006 16:18
Cal : 86239531001 Caldate: 15-JUN-2006
Standards: S3685

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	36.646	38.322	5000	5351	ug/L	7	10	
Arsenic	A	20.904	22.326	5000	5418	ug/L	8	10	
Barium	A	428.08	427.90	5000	5153	ug/L	3	10	
Beryllium	A	3582.4	3706.3	500.0	508.9	ug/L	2	10	
Boron	A	181.45	194.89	5000	5378	ug/L	8	10	
Cadmium	A	342.23	351.14	5000	5246	ug/L	5	10	
Chromium	A	90.553	90.453	5000	5137	ug/L	3	10	
Cobalt	A	113.59	115.01	5000	5106	ug/L	2	10	
Copper	A	698.14	679.95	5000	4846	ug/L	-3	10	
Lead	A	53.188	53.612	5000	5121	ug/L	2	10	
Manganese	A	966.02	934.72	5000	5050	ug/L	1	10	
Molybdenum	A	43.926	46.343	5000	5401	ug/L	8	10	
Nickel	A	61.637	61.268	5000	5138	ug/L	3	10	
Selenium	A	19.257	22.377	5000	5272	ug/L	5	10	
Silver	A	417.02	423.52	1000	963.5	ug/L	-4	10	
Thallium	A	21.644	20.672	5000	5077	ug/L	2	10	
Tin	A	20.636	21.991	5000	5123	ug/L	2	10	
Titanium	A	1070.7	1076.8	5000	5274	ug/L	5	10	
Vanadium	A	132.57	135.41	5000	5128	ug/L	3	10	
Zinc	A	132.12	123.45	5000	5260	ug/L	5	10	
Aluminum	R	1.6811	1.4823	20000	17720	ug/L	-11	10	c- ***
Calcium	R	14.125	11.467	20000	18660	ug/L	-7	10	
Iron	R	9.8637	8.8861	20000	18980	ug/L	-5	10	
Magnesium	R	2.2885	2.1485	20000	19440	ug/L	-3	10	
Potassium	R	6.2583	6.2180	20000	20170	ug/L	1	10	
Sodium	R	11.008	9.7057	20000	18640	ug/L	-7	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2458841	-0.86

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86239531138 File : 061506r.txt Time : 15-JUN-2006 17:03
Cal : 86239531001 Caldate: 15-JUN-2006
Standards: S3685

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	36.646	37.687	5000	5262	ug/L	5	10	
Arsenic	A	20.904	21.898	5000	5314	ug/L	6	10	
Barium	A	428.08	426.09	5000	5132	ug/L	3	10	
Beryllium	A	3582.4	3694.1	500.0	507.2	ug/L	1	10	
Boron	A	181.45	189.05	5000	5217	ug/L	4	10	
Cadmium	A	342.23	347.94	5000	5198	ug/L	4	10	
Chromium	A	90.553	89.454	5000	5080	ug/L	2	10	
Cobalt	A	113.59	114.57	5000	5087	ug/L	2	10	
Copper	A	698.14	683.40	5000	4871	ug/L	-3	10	
Lead	A	53.188	52.565	5000	5021	ug/L	0	10	
Manganese	A	966.02	930.93	5000	5029	ug/L	1	10	
Molybdenum	A	43.926	44.701	5000	5210	ug/L	4	10	
Nickel	A	61.637	60.520	5000	5075	ug/L	2	10	
Selenium	A	19.257	21.875	5000	5154	ug/L	3	10	
Silver	A	417.02	420.46	1000	956.6	ug/L	-4	10	
Thallium	A	21.644	20.271	5000	4979	ug/L	0	10	
Tin	A	20.636	21.650	5000	5044	ug/L	1	10	
Titanium	A	1070.7	1074.6	5000	5264	ug/L	5	10	
Vanadium	A	132.57	135.49	5000	5131	ug/L	3	10	
Zinc	A	132.12	122.14	5000	5204	ug/L	4	10	
Aluminum	R	1.6811	1.5882	20000	18990	ug/L	-5	10	
Calcium	R	14.125	12.201	20000	19860	ug/L	-1	10	
Iron	R	9.8637	9.4929	20000	20280	ug/L	1	10	
Magnesium	R	2.2885	2.2683	20000	20520	ug/L	3	10	
Potassium	R	6.2583	6.6285	20000	21500	ug/L	8	10	
Sodium	R	11.008	10.417	20000	20000	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2409280	-2.85

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 86239531145
Cal : 86239531001
Standards: S3685

File : 061506r.txt
Caldate: 15-JUN-2006

IDF : 1.0
Time : 15-JUN-2006 18:22

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	36.646	37.662	5000	5258	ug/L	5	10	
Arsenic	A	20.904	21.788	5000	5287	ug/L	6	10	
Barium	A	428.08	422.33	5000	5086	ug/L	2	10	
Beryllium	A	3582.4	3658.7	500.0	502.3	ug/L	0	10	
Boron	A	181.45	186.71	5000	5152	ug/L	3	10	
Cadmium	A	342.23	345.47	5000	5161	ug/L	3	10	
Chromium	A	90.553	88.711	5000	5038	ug/L	1	10	
Cobalt	A	113.59	113.66	5000	5046	ug/L	1	10	
Copper	A	698.14	676.95	5000	4825	ug/L	-4	10	
Lead	A	53.188	52.340	5000	5000	ug/L	0	10	
Manganese	A	966.02	921.64	5000	4979	ug/L	0	10	
Molybdenum	A	43.926	44.366	5000	5171	ug/L	3	10	
Nickel	A	61.637	60.119	5000	5042	ug/L	1	10	
Selenium	A	19.257	21.774	5000	5130	ug/L	3	10	
Silver	A	417.02	417.08	1000	948.9	ug/L	-5	10	
Thallium	A	21.644	20.087	5000	4933	ug/L	-1	10	
Tin	A	20.636	21.542	5000	5019	ug/L	0	10	
Titanium	A	1070.7	1064.3	5000	5213	ug/L	4	10	
Vanadium	A	132.57	133.69	5000	5063	ug/L	1	10	
Zinc	A	132.12	121.33	5000	5169	ug/L	3	10	
Aluminum	R	1.6811	1.5532	20000	18570	ug/L	-7	10	
Calcium	R	14.125	11.955	20000	19460	ug/L	-3	10	
Iron	R	9.8637	9.3168	20000	19900	ug/L	0	10	
Magnesium	R	2.2885	2.2271	20000	20150	ug/L	1	10	
Potassium	R	6.2583	6.5205	20000	21150	ug/L	6	10	
Sodium	R	11.008	10.228	20000	19640	ug/L	-2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2472651	-0.30

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 86239531159
Cal : 86239531001
Standards: S3685

File : 061506r.txt
Caldate: 15-JUN-2006

IDF : 1.0
Time : 15-JUN-2006 19:32

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	36.646	37.588	5000	5248	ug/L	5	10	
Arsenic	A	20.904	21.986	5000	5335	ug/L	7	10	
Barium	A	428.08	426.98	5000	5142	ug/L	3	10	
Beryllium	A	3582.4	3710.2	500.0	509.4	ug/L	2	10	
Boron	A	181.45	193.87	5000	5350	ug/L	7	10	
Cadmium	A	342.23	351.83	5000	5256	ug/L	5	10	
Chromium	A	90.553	89.783	5000	5098	ug/L	2	10	
Cobalt	A	113.59	115.05	5000	5108	ug/L	2	10	
Copper	A	698.14	676.43	5000	4821	ug/L	-4	10	
Lead	A	53.188	53.156	5000	5078	ug/L	2	10	
Manganese	A	966.02	935.46	5000	5054	ug/L	1	10	
Molybdenum	A	43.926	45.878	5000	5347	ug/L	7	10	
Nickel	A	61.637	60.945	5000	5111	ug/L	2	10	
Selenium	A	19.257	22.154	5000	5219	ug/L	4	10	
Silver	A	417.02	417.14	1000	949.0	ug/L	-5	10	
Thallium	A	21.644	20.346	5000	4997	ug/L	0	10	
Tin	A	20.636	21.950	5000	5114	ug/L	2	10	
Titanium	A	1070.7	1071.4	5000	5248	ug/L	5	10	
Vanadium	A	132.57	135.52	5000	5132	ug/L	3	10	
Zinc	A	132.12	123.58	5000	5265	ug/L	5	10	
Aluminum	R	1.6811	1.5301	20000	18300	ug/L	-9	10	
Calcium	R	14.125	11.892	20000	19360	ug/L	-3	10	
Iron	R	9.8637	9.3179	20000	19900	ug/L	0	10	
Magnesium	R	2.2885	2.2480	20000	20340	ug/L	2	10	
Potassium	R	6.2583	6.5424	20000	21230	ug/L	6	10	
Sodium	R	11.008	10.552	20000	20260	ug/L	1	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2468187	-0.48

86239531159

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 86239531174
Cal : 86239531001
Standards: S3685

File : 061506r.txt
Caldate: 15-JUN-2006

IDF : 1.0
Time : 15-JUN-2006 20:25

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	36.646	36.740	5000	5130	ug/L	3	10	
Arsenic	A	20.904	21.350	5000	5181	ug/L	4	10	
Barium	A	428.08	425.84	5000	5129	ug/L	3	10	
Beryllium	A	3582.4	3686.6	500.0	506.2	ug/L	1	10	
Boron	A	181.45	188.91	5000	5213	ug/L	4	10	
Cadmium	A	342.23	348.62	5000	5208	ug/L	4	10	
Chromium	A	90.553	88.080	5000	5002	ug/L	0	10	
Cobalt	A	113.59	114.65	5000	5090	ug/L	2	10	
Copper	A	698.14	675.32	5000	4813	ug/L	-4	10	
Lead	A	53.188	51.689	5000	4938	ug/L	-1	10	
Manganese	A	966.02	929.46	5000	5021	ug/L	0	10	
Molybdenum	A	43.926	43.528	5000	5073	ug/L	1	10	
Nickel	A	61.637	59.565	5000	4995	ug/L	0	10	
Selenium	A	19.257	21.430	5000	5049	ug/L	1	10	
Silver	A	417.02	410.67	1000	934.3	ug/L	-7	10	
Thallium	A	21.644	19.666	5000	4830	ug/L	-3	10	
Tin	A	20.636	21.238	5000	4948	ug/L	-1	10	
Titanium	A	1070.7	1070.1	5000	5241	ug/L	5	10	
Vanadium	A	132.57	135.10	5000	5116	ug/L	2	10	
Zinc	A	132.12	122.43	5000	5217	ug/L	4	10	
Aluminum	R	1.6811	1.5552	20000	18600	ug/L	-7	10	
Calcium	R	14.125	12.110	20000	19710	ug/L	-1	10	
Iron	R	9.8637	9.5058	20000	20310	ug/L	2	10	
Magnesium	R	2.2885	2.2869	20000	20690	ug/L	3	10	
Potassium	R	6.2583	6.6066	20000	21430	ug/L	7	10	
Sodium	R	11.008	10.662	20000	20470	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2485554	0.22

86239531174

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 86239531186
Cal : 86239531001
Standards: S3685

File : 061506r.txt
Caldate: 15-JUN-2006

IDF : 1.0
Time : 15-JUN-2006 21:06

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	36.646	37.765	5000	5273	ug/L	5	10	
Arsenic	A	20.904	21.645	5000	5253	ug/L	5	10	
Barium	A	428.08	427.54	5000	5149	ug/L	3	10	
Beryllium	A	3582.4	3676.5	500.0	504.8	ug/L	1	10	
Boron	A	181.45	187.49	5000	5174	ug/L	3	10	
Cadmium	A	342.23	346.15	5000	5172	ug/L	3	10	
Chromium	A	90.553	89.602	5000	5088	ug/L	2	10	
Cobalt	A	113.59	114.57	5000	5087	ug/L	2	10	
Copper	A	698.14	679.09	5000	4840	ug/L	-3	10	
Lead	A	53.188	52.315	5000	4997	ug/L	0	10	
Manganese	A	966.02	928.45	5000	5016	ug/L	0	10	
Molybdenum	A	43.926	44.093	5000	5139	ug/L	3	10	
Nickel	A	61.637	60.514	5000	5075	ug/L	1	10	
Selenium	A	19.257	21.580	5000	5084	ug/L	2	10	
Silver	A	417.02	418.60	1000	952.3	ug/L	-5	10	
Thallium	A	21.644	19.880	5000	4883	ug/L	-2	10	
Tin	A	20.636	21.528	5000	5015	ug/L	0	10	
Titanium	A	1070.7	1077.1	5000	5276	ug/L	6	10	
Vanadium	A	132.57	135.55	5000	5133	ug/L	3	10	
Zinc	A	132.12	120.93	5000	5152	ug/L	3	10	
Aluminum	R	1.6811	1.5955	20000	19080	ug/L	-5	10	
Calcium	R	14.125	12.498	20000	20340	ug/L	2	10	
Iron	R	9.8637	9.6604	20000	20640	ug/L	3	10	
Magnesium	R	2.2885	2.3463	20000	21230	ug/L	6	10	
Potassium	R	6.2583	6.7652	20000	21950	ug/L	10	10	
Sodium	R	11.008	10.960	20000	21040	ug/L	5	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2415255	-2.61

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86239531008 File : 061506r.txt Time : 15-JUN-2006 08:36
Cal : 86239531001 Caldate: 15-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	[1.336]	5.000	1.047	ug/L	!ib
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	[0.6895]	3.000	0.5698	ug/L	!ib
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[3.235]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[1.606]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2499279	0.77

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

nst : MET08
eqnum : 86239531022 File : 061506r.txt
al : 86239531001 Caldate: 15-JUN-2006

IDF : 1.0
Time : 15-JUN-2006 09:39

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	[1.131]	5.000	1.047	ug/L	!ib
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	[1.134]	3.000	0.5698	ug/L	!ib
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[1.437]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[1.173]	5.000	0.9317	ug/L	!ib
Tin	A	[10.24]	40.00	4.403	ug/L	!ib
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2498074	0.73

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

nst : MET08
eqnum : 86239531036 File : 061506r.txt
al : 86239531001 Caldate: 15-JUN-2006
IDF : 1.0
Time : 15-JUN-2006 10:17

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	[0.5944]	3.000	0.5698	ug/L	!ib
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[1.714]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[1.049]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2509549	1.19

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

nst : MET08 IDF : 1.0
eqnum : 86239531059 File : 061506r.txt Time : 15-JUN-2006 11:27
al : 86239531001 Caldate: 15-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	[0.8710]	3.000	0.5698	ug/L	!ib
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[1.660]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2484565	0.18

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

nst : MET08 IDF : 1.0
eqnum : 86239531067 File : 061506r.txt Time : 15-JUN-2006 12:27
al : 86239531001 Caldate: 15-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	[1.236]	5.000	1.047	ug/L	!ib
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[1.625]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[1.335]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2524399	1.79

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 86239531080
Cal : 86239531001

File : 061506r.txt
Caldate: 15-JUN-2006

IDF : 1.0
Time : 15-JUN-2006 13:21

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	[0.8323]	3.000	0.5698	ug/L	!ib
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[2.757]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[1.890]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2533028	2.14

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

ıst : MET08
eqnum : 86239531090
al : 86239531001

File : 061506r.txt
Caldate: 15-JUN-2006

IDF : 1.0
Time : 15-JUN-2006 13:54

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[1.640]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[1.245]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	[40.08]	500.0	39.23	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2504355	0.98

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

nst : MET08
eqnum : 86239531104
'al : 86239531001

File : 061506r.txt
Caldate: 15-JUN-2006

IDF : 1.0
Time : 15-JUN-2006 14:46

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	[1.889]	5.000	1.047	ug/L	!ib
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	[0.9958]	5.000	0.5564	ug/L	!ib
Cobalt	A	[0.5121]	5.000	0.4605	ug/L	!ib
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[1.224]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	[1.622]	5.000	1.575	ug/L	!ib
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	[3.583]	5.000	0.4217	ug/L	!ib
Zinc	A	[2.011]	20.00	1.533	ug/L	!ib
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	[40.98]	500.0	39.23	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	3653783	47.33

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

nst : MET08
eqnum : 86239531114
al : 86239531001

File : 061506r.txt
Caldate: 15-JUN-2006

IDF : 1.0
Time : 15-JUN-2006 15:20

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	[0.7525]	3.000	0.5698	ug/L	!ib
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[0.7795]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[1.379]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2496523	0.66

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86239531128 File : 061506r.txt Time : 15-JUN-2006 16:29
Cal : 86239531001 Caldate: 15-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	[1.155]	3.000	0.5698	ug/L	!ib
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[1.248]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[0.9868]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2524978	1.81

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86239531140 File : 061506r.txt Time : 15-JUN-2006 17:09
Cal : 86239531001 Caldate: 15-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[1.745]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[1.388]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2537700	2.32

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 86239531147 File : 061506r.txt
Cal : 86239531001 Caldate: 15-JUN-2006

IDF : 1.0
Time : 15-JUN-2006 18:29

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[1.637]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[1.812]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	[40.33]	500.0	39.23	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2510773	1.24

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 86239531162
Cal : 86239531001

File : 061506r.txt
Caldate: 15-JUN-2006

IDF : 1.0
Time : 15-JUN-2006 19:41

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	[1.857]	5.000	1.047	ug/L	!ib
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	[17.99]	100.0	13.57	ug/L	!ib
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[1.209]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[1.836]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	612.4	500.0	39.23	ug/L	ib ***

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2513381	1.34

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 86239531176
Cal : 86239531001

File : 061506r.txt
Caldate: 15-JUN-2006

IDF : 1.0
Time : 15-JUN-2006 20:31

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	[0.6515]	5.000	0.5564	ug/L	!ib
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[1.575]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[1.387]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	[449.6]	500.0	39.23	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2550062	2.82

!=warning ib=instrument blank

86239531176

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86239531188 File : 061506r.txt Time : 15-JUN-2006 21:12
Cal : 86239531001 Caldate: 15-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	[1.257]	5.000	1.047	ug/L	!ib
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[1.668]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[1.617]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	[451.3]	500.0	39.23	ug/L	!ib

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2504791	1.00

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86239531009 File : 061506r.txt Time : 15-JUN-2006 08:59
Cal : 86239531001 Caldate: 15-JUN-2006
Standards: S3254

Analyte	Ch	Quant	RL	Units	Flags
Antimony	A	[4.363]	5.000	ug/L	
Arsenic	A	[1.600]	5.000	ug/L	
Barium	A	[0.4341]	5.000	ug/L	
Beryllium	A	[0.2986]	2.000	ug/L	
Boron	A	[-35.34]	100.0	ug/L	
Cadmium	A	[3.479]	5.000	ug/L	
Cobalt	A	[-0.9291]	5.000	ug/L	
Lead	A	[-1.711]	3.000	ug/L	
Molybdenum	A	[-1.288]	5.000	ug/L	
Selenium	A	[0.6178]	5.000	ug/L	
Silver	A	[3.746]	5.000	ug/L	
Thallium	A	[4.313]	5.000	ug/L	
Tin	A	[-7.703]	40.00	ug/L	
Zinc	A	[-5.862]	20.00	ug/L	
Potassium	R	[-15.57]	500.0	ug/L	
Sodium	R	[14.38]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19120	ug/L	96
Copper	A	20000	20570	ug/L	103
Manganese	A	20000	18260	ug/L	91
Nickel	A	20000	17940	ug/L	90
Titanium	A	20000	17390	ug/L	87
Vanadium	A	20000	20960	ug/L	105
Aluminum	R	500000	482700	ug/L	97
Calcium	R	500000	483400	ug/L	97
Iron	R	200000	186300	ug/L	93
Magnesium	R	500000	472200	ug/L	94

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2042963	-17.62

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86239531010 File : 061506r.txt Time : 15-JUN-2006 09:01
Cal : 86239531001 Caldate: 15-JUN-2006
Standards: S3527

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	546.7	ug/L	9	20	
Arsenic	A	500.0	546.7	ug/L	9	20	
Barium	A	500.0	532.5	ug/L	6	20	
Beryllium	A	500.0	526.0	ug/L	5	20	
Cadmium	A	1000	1000	ug/L	0	20	
Chromium	A	500.0	526.4	ug/L	5	20	
Cobalt	A	500.0	466.3	ug/L	-7	20	
Copper	A	500.0	513.9	ug/L	3	20	
Lead	A	1000	953.4	ug/L	-5	20	
Manganese	A	500.0	523.7	ug/L	5	20	
Molybdenum	A	500.0	533.4	ug/L	7	20	
Nickel	A	1000	947.4	ug/L	-5	20	
Selenium	A	500.0	515.3	ug/L	3	20	
Silver	A	1000	1081	ug/L	8	20	
Thallium	A	500.0	486.2	ug/L	-3	20	
Titanium	A	20000	20140	ug/L	1		
Vanadium	A	500.0	574.3	ug/L	15	20	
Zinc	A	1000	988.0	ug/L	-1	20	
Aluminum	R	500000	509200	ug/L	2		
Calcium	R	500000	494400	ug/L	-1		
Iron	R	200000	191700	ug/L	-4		
Magnesium	R	500000	492800	ug/L	-1		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2055610	-17.11

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08
Seqnum : 86239531055
Cal : 86239531001
Standards: S3527

File : 061506r.txt
Caldate: 15-JUN-2006

IDF : 1.0
Time : 15-JUN-2006 11:14

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	569.4	ug/L	14	20	
Arsenic	A	500.0	568.1	ug/L	14	20	
Barium	A	500.0	538.6	ug/L	8	20	
Beryllium	A	500.0	530.3	ug/L	6	20	
Cadmium	A	1000	1015	ug/L	1	20	
Chromium	A	500.0	527.7	ug/L	6	20	
Cobalt	A	500.0	478.0	ug/L	-4	20	
Copper	A	500.0	504.5	ug/L	1	20	
Lead	A	1000	966.8	ug/L	-3	20	
Manganese	A	500.0	524.1	ug/L	5	20	
Molybdenum	A	500.0	539.5	ug/L	8	20	
Nickel	A	1000	963.1	ug/L	-4	20	
Selenium	A	500.0	528.9	ug/L	6	20	
Silver	A	1000	1084	ug/L	8	20	
Thallium	A	500.0	492.1	ug/L	-2	20	
Titanium	A	20000	20260	ug/L	1		
Vanadium	A	500.0	575.5	ug/L	15	20	
Zinc	A	1000	1008	ug/L	1	20	
Aluminum	R	500000	477900	ug/L	-4		
Calcium	R	500000	469500	ug/L	-6		
Iron	R	200000	184300	ug/L	-8		
Magnesium	R	500000	474300	ug/L	-5		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2097157	-15.44

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08
Seqnum : 86239531063 File : 061506r.txt
Cal : 86239531001 Caldate: 15-JUN-2006
Standards: S3527

IDF : 1.0
Time : 15-JUN-2006 12:14

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	579.6	ug/L	16	20	
Arsenic	A	500.0	569.8	ug/L	14	20	
Barium	A	500.0	564.4	ug/L	13	20	
Beryllium	A	500.0	554.4	ug/L	11	20	
Cadmium	A	1000	1068	ug/L	7	20	
Chromium	A	500.0	546.0	ug/L	9	20	
Cobalt	A	500.0	493.3	ug/L	-1	20	
Copper	A	500.0	524.3	ug/L	5	20	
Lead	A	1000	1000	ug/L	0	20	
Manganese	A	500.0	546.8	ug/L	9	20	
Molybdenum	A	500.0	553.5	ug/L	11	20	
Nickel	A	1000	993.3	ug/L	-1	20	
Selenium	A	500.0	540.4	ug/L	8	20	
Silver	A	1000	1132	ug/L	13	20	
Thallium	A	500.0	513.1	ug/L	3	20	
Titanium	A	20000	21170	ug/L	6		
Vanadium	A	500.0	592.4	ug/L	18	20	
Zinc	A	1000	1044	ug/L	4	20	
Aluminum	R	500000	497700	ug/L	0		
Calcium	R	500000	500100	ug/L	0		
Iron	R	200000	194800	ug/L	-3		
Magnesium	R	500000	509500	ug/L	2		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2027185	-18.26

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

nst : MET08
eqnum : 86239531086 File : 061506r.txt
al : 86239531001 Caldate: 15-JUN-2006
tandards: S3527

IDF : 1.0
Time : 15-JUN-2006 13:41

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	556.2	ug/L	11	20	
Arsenic	A	500.0	557.1	ug/L	11	20	
Barium	A	500.0	544.5	ug/L	9	20	
Beryllium	A	500.0	534.6	ug/L	7	20	
Cadmium	A	1000	1031	ug/L	3	20	
Chromium	A	500.0	530.8	ug/L	6	20	
Cobalt	A	500.0	478.6	ug/L	-4	20	
Copper	A	500.0	506.7	ug/L	1	20	
Lead	A	1000	968.9	ug/L	-3	20	
Manganese	A	500.0	526.6	ug/L	5	20	
Molybdenum	A	500.0	537.5	ug/L	7	20	
Nickel	A	1000	963.5	ug/L	-4	20	
Selenium	A	500.0	548.9	ug/L	10	20	
Silver	A	1000	1092	ug/L	9	20	
Thallium	A	500.0	488.1	ug/L	-2	20	
Titanium	A	20000	20680	ug/L	3		
Vanadium	A	500.0	574.2	ug/L	15	20	
Zinc	A	1000	1015	ug/L	1	20	
Aluminum	R	500000	468800	ug/L	-6		
Calcium	R	500000	462500	ug/L	-8		
Iron	R	200000	179600	ug/L	-10		
Magnesium	R	500000	475100	ug/L	-5		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2085197	-15.92

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08
Seqnum : 86239531108
Cal : 86239531001
Standards: S3527

File : 061506r.txt
Caldate: 15-JUN-2006

IDF : 1.0
Time : 15-JUN-2006 14:59

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	573.5	ug/L	15	20	
Arsenic	A	500.0	568.7	ug/L	14	20	
Barium	A	500.0	542.5	ug/L	9	20	
Beryllium	A	500.0	532.0	ug/L	6	20	
Cadmium	A	1000	1030	ug/L	3	20	
Chromium	A	500.0	535.3	ug/L	7	20	
Cobalt	A	500.0	487.3	ug/L	-3	20	
Copper	A	500.0	502.8	ug/L	1	20	
Lead	A	1000	983.3	ug/L	-2	20	
Manganese	A	500.0	524.3	ug/L	5	20	
Molybdenum	A	500.0	542.6	ug/L	9	20	
Nickel	A	1000	974.6	ug/L	-3	20	
Selenium	A	500.0	555.4	ug/L	11	20	
Silver	A	1000	1082	ug/L	8	20	
Thallium	A	500.0	492.3	ug/L	-2	20	
Titanium	A	20000	20290	ug/L	1		
Vanadium	A	500.0	578.6	ug/L	16	20	
Zinc	A	1000	1030	ug/L	3	20	
Aluminum	R	500000	459200	ug/L	-8		
Calcium	R	500000	457800	ug/L	-8		
Iron	R	200000	178200	ug/L	-11		
Magnesium	R	500000	472200	ug/L	-6		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2109941	-14.92

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

nst : MET08 IDF : 1.0
eqnum : 86239531124 File : 061506r.txt Time : 15-JUN-2006 16:10
al : 86239531001 Caldate: 15-JUN-2006
tandards: S3527

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	544.0	ug/L	9	20	
Arsenic	A	500.0	549.0	ug/L	10	20	
Barium	A	500.0	541.9	ug/L	8	20	
Beryllium	A	500.0	535.1	ug/L	7	20	
Cadmium	A	1000	1029	ug/L	3	20	
Chromium	A	500.0	522.0	ug/L	4	20	
Cobalt	A	500.0	469.6	ug/L	-6	20	
Copper	A	500.0	505.5	ug/L	1	20	
Lead	A	1000	960.1	ug/L	-4	20	
Manganese	A	500.0	527.1	ug/L	5	20	
Molybdenum	A	500.0	533.2	ug/L	7	20	
Nickel	A	1000	945.2	ug/L	-5	20	
Selenium	A	500.0	529.4	ug/L	6	20	
Silver	A	1000	1089	ug/L	9	20	
Thallium	A	500.0	485.3	ug/L	-3	20	
Titanium	A	20000	20260	ug/L	1		
Vanadium	A	500.0	566.2	ug/L	13	20	
Zinc	A	1000	1000	ug/L	0	20	
Aluminum	R	500000	474600	ug/L	-5		
Calcium	R	500000	477000	ug/L	-5		
Iron	R	200000	187700	ug/L	-6		
Magnesium	R	500000	475900	ug/L	-5		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2092251	-15.64

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86239531136 File : 061506r.txt Time : 15-JUN-2006 16:56
Cal : 86239531001 Caldate: 15-JUN-2006
Standards: S3527

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	547.4	ug/L	9	20	
Arsenic	A	500.0	566.2	ug/L	13	20	
Barium	A	500.0	542.0	ug/L	8	20	
Beryllium	A	500.0	535.0	ug/L	7	20	
Cadmium	A	1000	1038	ug/L	4	20	
Chromium	A	500.0	523.6	ug/L	5	20	
Cobalt	A	500.0	474.9	ug/L	-5	20	
Copper	A	500.0	502.3	ug/L	0	20	
Lead	A	1000	967.0	ug/L	-3	20	
Manganese	A	500.0	526.9	ug/L	5	20	
Molybdenum	A	500.0	534.6	ug/L	7	20	
Nickel	A	1000	952.9	ug/L	-5	20	
Selenium	A	500.0	530.0	ug/L	6	20	
Silver	A	1000	1078	ug/L	8	20	
Thallium	A	500.0	484.9	ug/L	-3	20	
Titanium	A	20000	20140	ug/L	1		
Vanadium	A	500.0	565.5	ug/L	13	20	
Zinc	A	1000	1015	ug/L	1	20	
Aluminum	R	500000	465900	ug/L	-7		
Calcium	R	500000	450400	ug/L	-10		
Iron	R	200000	179200	ug/L	-10		
Magnesium	R	500000	469200	ug/L	-6		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2166707	-12.64

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86239531143 File : 061506r.txt Time : 15-JUN-2006 18:15
Cal : 86239531001 Caldate: 15-JUN-2006
Standards: S3527

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	551.0	ug/L	10	20	
Arsenic	A	500.0	563.5	ug/L	13	20	
Barium	A	500.0	540.3	ug/L	8	20	
Beryllium	A	500.0	534.4	ug/L	7	20	
Cadmium	A	1000	1039	ug/L	4	20	
Chromium	A	500.0	525.1	ug/L	5	20	
Cobalt	A	500.0	476.2	ug/L	-5	20	
Copper	A	500.0	503.3	ug/L	1	20	
Lead	A	1000	966.5	ug/L	-3	20	
Manganese	A	500.0	526.9	ug/L	5	20	
Molybdenum	A	500.0	537.0	ug/L	7	20	
Nickel	A	1000	954.3	ug/L	-5	20	
Selenium	A	500.0	538.9	ug/L	8	20	
Silver	A	1000	1081	ug/L	8	20	
Thallium	A	500.0	487.1	ug/L	-3	20	
Titanium	A	20000	20130	ug/L	1		
Vanadium	A	500.0	564.9	ug/L	13	20	
Zinc	A	1000	1018	ug/L	2	20	
Aluminum	R	500000	454800	ug/L	-9		
Calcium	R	500000	452000	ug/L	-10		
Iron	R	200000	179000	ug/L	-10		
Magnesium	R	500000	465300	ug/L	-7		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2173486	-12.36

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08
Seqnum : 86239531184
Cal : 86239531001
Standards: S3527

File : 061506r.txt
Caldate: 15-JUN-2006

IDF : 1.0
Time : 15-JUN-2006 20:59

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	547.1	ug/L	9	20	
Arsenic	A	500.0	548.4	ug/L	10	20	
Barium	A	500.0	528.9	ug/L	6	20	
Beryllium	A	500.0	520.9	ug/L	4	20	
Cadmium	A	1000	1002	ug/L	0	20	
Chromium	A	500.0	519.9	ug/L	4	20	
Cobalt	A	500.0	468.5	ug/L	-6	20	
Copper	A	500.0	490.7	ug/L	-2	20	
Lead	A	1000	956.2	ug/L	-4	20	
Manganese	A	500.0	512.7	ug/L	3	20	
Molybdenum	A	500.0	525.7	ug/L	5	20	
Nickel	A	1000	942.2	ug/L	-6	20	
Selenium	A	500.0	509.7	ug/L	2	20	
Silver	A	1000	1058	ug/L	6	20	
Thallium	A	500.0	480.1	ug/L	-4	20	
Titanium	A	20000	19940	ug/L	0		
Vanadium	A	500.0	560.2	ug/L	12	20	
Zinc	A	1000	982.3	ug/L	-2	20	
Aluminum	R	500000	464400	ug/L	-7		
Calcium	R	500000	465600	ug/L	-7		
Iron	R	200000	184100	ug/L	-8		
Magnesium	R	500000	479900	ug/L	-4		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	2480063	2109459	-14.94

86239531184

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86239531 Instrument: MET08 PE ICP Begun: 15-JUN-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	061506r.	ICALBLK				15-JUN-2006 08:11	1.0	1.0					
002	061506r.	ICAL	CRIM08			15-JUN-2006 08:15	1.0	1.0				1	
003	061506r.	ICAL	CS100			15-JUN-2006 08:19	1.0	1.0				2	
004	061506r.	ICAL	CS1K			15-JUN-2006 08:22	1.0	1.0				3	
005	061506r.	ICAL	CS10K			15-JUN-2006 08:24	1.0	1.0				4	
006	061506r.	ICAL	CS100K			15-JUN-2006 08:27	1.0	1.0				5	
007	061506r.	ICV				15-JUN-2006 08:30	1.0	1.0			5000	6	
008	061506r.	ICB				15-JUN-2006 08:36	1.0	1.0			5000		
009	061506r.	ICSA				15-JUN-2006 08:59	1.0	1.0			5000	7	10:CA=483408
010	061506r.	ICSAB				15-JUN-2006 09:01	1.0	1.0			5000	8	5:AL=509238
011	061506r.	BLANK	QC344034	114429	Soil	15-JUN-2006 09:09	1.0	50.0			5000		
012	061506r.	BS	QC344035	114429	Soil	15-JUN-2006 09:13	1.0	50.0			5000		
013	061506r.	BSD	QC344036	114429	Soil	15-JUN-2006 09:15	1.0	50.0			5000		
014	061506r.	MSS	187431-001	114429	Soil	15-JUN-2006 09:17	1.0	45.45	6		5000		6:FE=500122
015	061506r.	SER	QC344039	114429	Soil	15-JUN-2006 09:19	5.0	45.45	1	6	5000		1:FE=124848
016	061506r.	MS	QC344037	114429	Soil	15-JUN-2006 09:22	1.0	54.35		1	5000		5:FE=430768
017	061506r.	MSD	QC344038	114429	Soil	15-JUN-2006 09:24	1.0	51.55		1	5000		5:FE=469495
018	061506r.	PDS	QC344040	114429	Soil	15-JUN-2006 09:26	1.0	45.45			5000	9 10	6:FE=511456
019	061506r.	X	RINSE			15-JUN-2006 09:29	1.0						
020	061506r.	CCV				15-JUN-2006 09:33	1.0	1.0			5000	11	
021	061506r.	X	FLUSH			15-JUN-2006 09:35	1.0						
022	061506r.	CCB				15-JUN-2006 09:39	1.0	1.0			5000		
023	061506r.	SAMPLE	187431-002	114429	Soil	15-JUN-2006 09:43	1.0	48.54			5000		6:FE=493125
024	061506r.	SAMPLE	187431-003	114429	Soil	15-JUN-2006 09:46	1.0	38.76	1		5000		5:FE=448021
025	061506r.	SAMPLE	187431-004	114429	Soil	15-JUN-2006 09:48	1.0	52.08	1		5000		4:FE=355971
026	061506r.	SAMPLE	187431-005	114429	Soil	15-JUN-2006 09:50	1.0	47.62			5000		5:FE=443898
027	061506r.	SAMPLE	187431-006	114429	Soil	15-JUN-2006 09:53	1.0	39.06			5000		4:FE=436708
028	061506r.	SAMPLE	187431-007	114429	Soil	15-JUN-2006 09:55	1.0	44.64			5000		4:FE=417005
029	061506r.	SAMPLE	187431-008	114429	Soil	15-JUN-2006 09:57	1.0	48.54			5000		4:FE=422687
030	061506r.	SAMPLE	187431-009	114429	Soil	15-JUN-2006 10:00	1.0	40.32			5000		6:FE=506436
031	061506r.	SAMPLE	187431-010	114429	Soil	15-JUN-2006 10:02	1.0	36.23			5000		6:FE=530468

Stds used: 1=S3580 2=S3582 3=S3581 4=S3583 5=S3584 6=S3684 7=S3254 8=S3527 9=S2838 10=S2839 11=S3685

Analyst: [signature] Date: 6/16/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86239531 Instrument: MET08 PE ICP Begun: 15-JUN-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	061506r.	SAMPLE	187375-001	114429	Soil	15-JUN-2006 10:05	1.0	49.50			5000		4:FE=416420
033	061506r.	X	RINSE			15-JUN-2006 10:07	1.0						
034	061506r.	CCV				15-JUN-2006 10:11	1.0	1.0			5000	11	
035	061506r.	X	FLUSH			15-JUN-2006 10:14	1.0						
036	061506r.	CCB				15-JUN-2006 10:17	1.0	1.0			5000		
037	061506r.	SER	QC344039	114429	Soil	15-JUN-2006 10:21	5.0	45.45		11	5000		1:FE=143927
038	061506r.	SAMPLE	187431-002	114429	Soil	15-JUN-2006 10:24	1.0	48.54			5000		6:FE=492542
039	061506r.	SAMPLE	187431-003	114429	Soil	15-JUN-2006 10:26	1.0	38.76			5000		5:FE=437609
040	061506r.	SAMPLE	187431-004	114429	Soil	15-JUN-2006 10:28	1.0	52.08	1		5000		4:FE=364172
041	061506r.	SAMPLE	187431-005	114429	Soil	15-JUN-2006 10:31	1.0	47.62	1		5000		5:FE=466250
042	061506r.	SAMPLE	187431-006	114429	Soil	15-JUN-2006 10:33	1.0	39.06			5000		4:FE=436137
043	061506r.	SAMPLE	187431-008	114429	Soil	15-JUN-2006 10:36	1.0	48.54			5000		4:FE=416761
044	061506r.	SAMPLE	187431-009	114429	Soil	15-JUN-2006 10:38	1.0	40.32			5000		6:FE=540464
045	061506r.	SAMPLE	187431-010	114429	Soil	15-JUN-2006 10:40	1.0	36.23			5000		6:FE=537731
046	061506r.	SAMPLE	187375-002	114429	Soil	15-JUN-2006 10:43	1.0	49.02			5000		6:FE=471891
047	061506r.	X	RINSE			15-JUN-2006 10:46	1.0						
048	061506r.	CCV				15-JUN-2006 10:50	1.0	1.0			5000	11	
049	061506r.	X	FLUSH			15-JUN-2006 10:53	1.0						
050	061506r.	CCB				15-JUN-2006 10:57	1.0	1.0			5000		
051	061506r.	SAMPLE	187403-002	114429	Miscel	15-JUN-2006 11:01	1.0	47.62			5000		1:CA=394978
052	061506r.	SAMPLE	187408-001	114429	Miscel	15-JUN-2006 11:04	1.0	57.47			5000		2:CA=523394
053	061506r.	SAMPLE	187421-001	114429	Miscel	15-JUN-2006 11:08	1.0	48.08			5000		
054	061506r.	SAMPLE	187421-002	114429	Miscel	15-JUN-2006 11:11	1.0	38.76			5000		1:NA=156703
055	061506r.	ICSAB				15-JUN-2006 11:14	1.0	1.0			5000	8	5:AL=477931
056	061506r.	X	RINSE			15-JUN-2006 11:17	1.0						
057	061506r.	CCV				15-JUN-2006 11:21	1.0	1.0			5000	11	
058	061506r.	X	FLUSH			15-JUN-2006 11:23	1.0						
059	061506r.	CCB				15-JUN-2006 11:27	1.0	1.0			5000		
060	061506r.	MSS	187288-001	114353	Water	15-JUN-2006 12:01	200.0	1.0			5000		
061	061506r.	MS	QC343715	114353	Water	15-JUN-2006 12:05	200.0	1.0			5000		
062	061506r.	MSD	QC343716	114353	Water	15-JUN-2006 12:10	200.0	1.0			5000		

Stds used: 1=S3580 2=S3582 3=S3581 4=S3583 5=S3584 6=S3684 7=S3254 8=S3527 9=S2838 10=S2839 11=S3685

Analyst: AKA Date: 8/16/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86239531 Instrument: MET08 PE ICP Begun: 15-JUN-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
063	061506r.	ICSAB				15-JUN-2006 12:14	1.0	1.0		5000	8	5:MG=509541
064	061506r.	X	RINSE			15-JUN-2006 12:17	1.0					
065	061506r.	CCV				15-JUN-2006 12:21	1.0	1.0		5000	11	
066	061506r.	X	FLUSH			15-JUN-2006 12:23	1.0					
067	061506r.	CCB				15-JUN-2006 12:27	1.0	1.0		5000		
068	061506r.	BLANK	QC344096	114445	WET Le	15-JUN-2006 12:43	10.0	5.0	1	5000		1:NA=184922
069	061506r.	BS	QC344097	114445	WET Le	15-JUN-2006 12:48	1.0	1.0		5000		
070	061506r.	BSD	QC344098	114445	WET Le	15-JUN-2006 12:50	1.0	1.0		5000		
071	061506r.	MSS	187321-001	114445	WET Le	15-JUN-2006 12:52	10.0	5.0	1	5000		1:NA=171383
072	061506r.	SDUP	QC344099	114445	WET Le	15-JUN-2006 12:56	10.0	5.0		5000		1:NA=174879
073	061506r.	SSPIKE	QC344100	114445	WET Le	15-JUN-2006 13:00	10.0	5.0		5000		1:NA=203035
074	061506r.	SAMPLE	187322-001	114445	WET Le	15-JUN-2006 13:03	10.0	5.0		5000		1:NA=172281
075	061506r.	SAMPLE	187359-001	114445	WET Le	15-JUN-2006 13:06	10.0	5.0		5000		1:NA=143657
076	061506r.	X	RINSE			15-JUN-2006 13:09	1.0					
077	061506r.	X				15-JUN-2006 13:13	1.0				11	
078	061506r.	CCV				15-JUN-2006 13:15	1.0	1.0		5000	11	
079	061506r.	X	FLUSH			15-JUN-2006 13:17	1.0					
080	061506r.	CCB				15-JUN-2006 13:21	1.0	1.0		5000		
081	061506r.	SAMPLE	187374-001	114445	WET Le	15-JUN-2006 13:25	10.0	5.0		5000		1:NA=163959
082	061506r.	SAMPLE	187374-002	114445	WET Le	15-JUN-2006 13:28	10.0	5.0		5000		1:NA=181127
083	061506r.	SAMPLE	187374-003	114445	WET Le	15-JUN-2006 13:32	10.0	5.0		5000		1:NA=181657
084	061506r.	X	WRONG CUP	114445	WET Le	15-JUN-2006 13:35	10.0	5.0		5000		1:NA=173813
085	061506r.	SAMPLE	187377-001	114445	WET Le	15-JUN-2006 13:38	10.0	5.0		5000		1:NA=160709
086	061506r.	ICSAB				15-JUN-2006 13:41	1.0	1.0		5000	8	5:MG=475098
087	061506r.	X	RINSE			15-JUN-2006 13:44	1.0					
088	061506r.	CCV				15-JUN-2006 13:48	1.0	1.0		5000	11	
089	061506r.	X	FLUSH			15-JUN-2006 13:50	1.0					
090	061506r.	CCB				15-JUN-2006 13:54	1.0	1.0		5000		
091	061506r.	SAMPLE	187065-003	114296	Filtra	15-JUN-2006 14:01	10.0	1.0		5000		
092	061506r.	SAMPLE	187375-001	114445	WET Le	15-JUN-2006 14:04	10.0	5.0		5000		1:NA=176963
093	061506r.	SAMPLE	187375-002	114445	WET Le	15-JUN-2006 14:07	10.0	5.0		5000		1:NA=164664

Stds used: 1=S3580 2=S3582 3=S3581 4=S3583 5=S3584 6=S3684 7=S3254 8=S3527 9=S2838 10=S2839 11=S3685

Analyst: [signature] Date: 6/16/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86239531 Instrument: MET08 PE ICP Begun: 15-JUN-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
094	061506r.	SAMPLE	187065-004	114296	Filtra	15-JUN-2006 14:10	10.0	1.0			5000		
095	061506r.	SAMPLE	187065-005	114296	Filtra	15-JUN-2006 14:13	10.0	1.0			5000		
096	061506r.	SAMPLE	187065-009	114296	Filtra	15-JUN-2006 14:17	50.0	1.0			5000		
097	061506r.	SAMPLE	187065-011	114296	Filtra	15-JUN-2006 14:21	10.0	1.0			5000		
098	061506r.	SAMPLE	187065-012	114296	Filtra	15-JUN-2006 14:25	10.0	1.0			5000		
099	061506r.	SAMPLE	187065-013	114296	Filtra	15-JUN-2006 14:28	10.0	1.0			5000		
100	061506r.	SAMPLE	187065-014	114296	Filtra	15-JUN-2006 14:31	1.0	1.0			5000		
101	061506r.	X	RINSE			15-JUN-2006 14:35	1.0						
102	061506r.	CCV				15-JUN-2006 14:39	1.0	1.0			5000	11	
103	061506r.	X	FLUSH			15-JUN-2006 14:42	1.0						
104	061506r.	CCB				15-JUN-2006 14:46	1.0	1.0			5000		
105	061506r.	SAMPLE	187065-015	114296	Filtra	15-JUN-2006 14:50	1.0	1.0			5000		
106	061506r.	SAMPLE	187065-016	114296	Filtra	15-JUN-2006 14:53	1.0	1.0			5000		
107	061506r.	SAMPLE	187065-017	114296	Filtra	15-JUN-2006 14:56	1.0	1.0			5000		
108	061506r.	ICSAB				15-JUN-2006 14:59	1.0	1.0			5000	8	5:MG=472069
109	061506r.	X	RINSE			15-JUN-2006 15:02	1.0						
110	061506r.	CCV				15-JUN-2006 15:06	1.0	1.0			5000	11	
111	061506r.	X	FLUSH			15-JUN-2006 15:09	1.0						
112	061506r.	X				15-JUN-2006 15:12	1.0						
113	061506r.	X				15-JUN-2006 15:16	1.0						
114	061506r.	CCB				15-JUN-2006 15:20	1.0	1.0			5000		
115	061506r.	BLANK	QC344076	114440	TCLP L	15-JUN-2006 15:39	10.0	1.0	2		5000		1:NA=145148
116	061506r.	BS	QC344077	114440	TCLP L	15-JUN-2006 15:43	1.0	1.0	1		5000		
117	061506r.	BSD	QC344078	114440	TCLP L	15-JUN-2006 15:45	1.0	1.0	1		5000		
118	061506r.	MSS	187403-001	114440	TCLP L	15-JUN-2006 15:48	10.0	1.0	3		5000		1:NA=144798
119	061506r.	SDUP	QC344079	114440	TCLP L	15-JUN-2006 15:52	10.0	1.0			5000		1:NA=137418
120	061506r.	SSPIKE	QC344080	114440	TCLP L	15-JUN-2006 15:56	10.0	1.0			5000		1:NA=148371
121	061506r.	SER	QC344081	114440	TCLP L	15-JUN-2006 15:59	50.0	1.0		3	5000		
122	061506r.	PDS	QC344082	114440	TCLP L	15-JUN-2006 16:03	10.0	1.0			5000	9 10	1:NA=165103
123	061506r.	SAMPLE	187403-003	114440	TCLP L	15-JUN-2006 16:06	10.0	1.0			5000		1:NA=153075
124	061506r.	ICSAB				15-JUN-2006 16:10	1.0	1.0			5000	8	5:CA=476951

Stds used: 1=S3580 2=S3582 3=S3581 4=S3583 5=S3584 6=S3684 7=S3254 8=S3527 9=S2838 10=S2839 11=S3685

Analyst: _____ Date: 6/16/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86239531 Instrument: MET08 PE ICP Begun: 15-JUN-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
156	061506r.	PDS	QC343903	114398	Filtra	15-JUN-2006 19:24	1.0	1.0		5000		4:MG=1017296
157	061506r.	X	RINSE			15-JUN-2006 19:26	1.0					
158	061506r.	X				15-JUN-2006 19:30	1.0	1.0	1	5000	11	
159	061506r.	CCV				15-JUN-2006 19:32	1.0	1.0		5000	11	
160	061506r.	X	FLUSH			15-JUN-2006 19:34	1.0					
161	061506r.	X				15-JUN-2006 19:38	1.0	1.0	1	5000		
162	061506r.	CCB				15-JUN-2006 19:41	1.0	1.0	1	5000		
163	061506r.	SAMPLE	187401-002	114398	Filtra	15-JUN-2006 19:45	1.0	1.0	1	5000		4:MG=1226334
164	061506r.	SAMPLE	187401-003	114398	Filtra	15-JUN-2006 19:48	1.0	1.0	1	5000		5:MG=1453250
165	061506r.	SAMPLE	187391-001	114398	Water	15-JUN-2006 19:51	1.0					
166	061506r.	SAMPLE	187391-002	114398	Water	15-JUN-2006 19:55	1.0	1.0	1	5000		2:CR=169189
167	061506r.	SAMPLE	187391-003	114398	Water	15-JUN-2006 19:58	1.0	1.0		5000		
168	061506r.	SAMPLE	187391-004	114398	Water	15-JUN-2006 20:01	1.0	1.0		5000		
169	061506r.	SAMPLE	187391-005	114398	Water	15-JUN-2006 20:05	1.0	1.0		5000		
170	061506r.	SAMPLE	187391-006	114398	Water	15-JUN-2006 20:09	1.0	1.0		5000		
171	061506r.	SAMPLE	187391-007	114398	Water	15-JUN-2006 20:13	1.0	1.0	1	5000		2:CA=153523
172	061506r.	SAMPLE	187414-001	114398	Water	15-JUN-2006 20:17	1.0	1.0		5000		
173	061506r.	X	RINSE			15-JUN-2006 20:21	1.0					
174	061506r.	CCV				15-JUN-2006 20:25	1.0	1.0		5000	11	
175	061506r.	X	FLUSH			15-JUN-2006 20:27	1.0					
176	061506r.	CCB				15-JUN-2006 20:31	1.0	1.0		5000		
177	061506r.	SAMPLE	187414-002	114398	Water	15-JUN-2006 20:35	1.0	1.0		5000		
178	061506r.	SAMPLE	187414-003	114398	Water	15-JUN-2006 20:40	1.0	1.0		5000		
179	061506r.	SAMPLE	187414-004	114398	Water	15-JUN-2006 20:44	1.0	1.0		5000		
180	061506r.	SAMPLE	187414-005	114398	Water	15-JUN-2006 20:47	1.0	1.0		5000		
181	061506r.	SAMPLE	187414-006	114398	Water	15-JUN-2006 20:51	1.0	1.0		5000		
182	061506r.	SAMPLE	187409-004	114398	Water	15-JUN-2006 20:54	1.0	1.0	2	5000		3:MG=534662
183	061506r.	X				15-JUN-2006 20:58	1.0	1.0	5	5000	8	5:MG=446916
184	061506r.	ICSAB				15-JUN-2006 20:59	1.0	1.0		5000	8	5:MG=479891
185	061506r.	X	RINSE			15-JUN-2006 21:02	1.0					
186	061506r.	CCV				15-JUN-2006 21:06	1.0	1.0		5000	11	

Stds used: 1=S3580 2=S3582 3=S3581 4=S3583 5=S3584 6=S3684 7=S3254 8=S3527 9=S2838 10=S2839 11=S3685

Analyst: [signature] Date: 6/16/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86239531 Instrument: MET08 PE ICP Begun: 15-JUN-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
187	061506r.	X	FLUSH			15-JUN-2006 21:08	1.0				
188	061506r.	CCB				15-JUN-2006 21:12	1.0	1.0	5000		

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Stds used: 1=S3580 2=S3582 3=S3581 4=S3583 5=S3584 6=S3684 7=S3254 8=S3527 9=S2838 10=S2839 11=S3685

Analyst: AK Date: 6/16/06

Curtis & Tompkins Laboratories Sample Preparation Summary 05-JUL-2006 10:26

Batch Number : 114057
Date Extracted: 02-JUN-2006
Extracted by : Kevin Gaines
Prep Method : 200.8

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S3085
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
187065-001			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					ICAP		
187065-002			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					ICAP		
187065-003			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					ICAP		
187065-004			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					ICAP		
187065-005			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					ICAP		
187065-006			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					ICAP		
187065-007			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					ICAP		
187065-009			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					ICAP		
187065-011			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					ICAP		
187065-012			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					ICAP		
187065-013			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					ICAP		
187065-014			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					ICAP		
187065-015			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					ICAP		
187065-016			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					ICAP		
187065-017			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					ICAP		
QC342496	BLANK			Filtrate	50	mL	50	1.000000	1					ICAP		
QC342497	BS			Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC342498	BSD			Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC342499	MS	of 187065-001		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC342500	MSD	of 187065-001		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC342501	SER	of 187065-001		Filtrate	50	mL	50	1.000000	1					ICAP		
QC342502	PDS	of 187065-001		Filtrate	50	mL	50	1.000000	1					ICAP		

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Prep Chemist: _____ Reviewed By: _____ Date: _____

Relinquished By: _____ Received By: _____ Date: _____

Water Digestion for ICP-MS

Curtis & Tompkins, Lt

LIMS Batch #: 114057
Date Digested: 6/2/07
Digested by: [illegible]

Digestion Method
☐ EPA 200.8 for ICP-MS
☐ _____

BK BK 2318
Page 30
Continued From: _____
Continued On: _____

Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BLK	50	50		
B3				
B3D				
MS-01H				FIELD FILTERED
MSD-01				
137065-01				
-02K				
-03				
-04H				
-05				
-06				
-07A				
-09G				
-11				
-12				
-13				
-14H				
-15K				
-16				
-17				

	Reagent ID or LIMS #	Initials / Date
5 digestion temperature (90-95 degrees C)	95	[illegible] 6/2
5 mL of spike solution was added to all spikes	33085	
concentrated HCl	B4G025 BAKER	
concentrated HNO3	CU6020	
☐ filtered thru' Whatman # 541		

Prep Chemist Signature / Date

Reviewer Signature / Date 6/2/07

Curtis & Tompkins Laboratories Sample Preparation Summary 05-JUL-2006 10:26

Batch Number : 114296
Date Extracted: 09-JUN-2006
Extracted by : Kristen Ann Carlyon
Prep Method : 3010A

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S1792
Spike #2 ID : S1793
Spike #3 ID :
SOP Version : 3010A_ICP_rv8

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
187065-001			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
187065-002			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
187065-003			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
187065-004			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
187065-005			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
187065-006			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187065-007			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187065-009			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187065-011			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187065-012			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187065-013			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187065-014			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
187065-015			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
187065-016			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
187065-017			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
QC343475	BLANK			Filtrate	50	mL	50	1.000000	1					ICAP		
QC343476	BS			Filtrate	50	mL	50	1.000000	1		.5	.5		ICAP		
QC343477	BSD			Filtrate	50	mL	50	1.000000	1		.5	.5		ICAP		
QC343478	MS	of 187065-001		Filtrate	50	mL	50	1.000000	1		.5	.5		ICAP		
QC343479	MSD	of 187065-001		Filtrate	50	mL	50	1.000000	1		.5	.5		ICAP		
QC343480	SER	of 187065-001		Filtrate	50	mL	50	1.000000	1					ICAP		
QC343481	PDS	of 187065-001		Filtrate	50	mL	50	1.000000	1					ICAP		

Prep Chemist: _____ Reviewed By: _____ Date: _____

Relinquished By: _____ Received By: _____ Date: _____

LIMS Batch #: 114296
Date Digested: 6/9/06
Digested by: KAC

Digestion Method
☒ EPA 3010a for ICP
☐ _____

BK 2287
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Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
187065-001 H	50	50mL	N	(MSS)
-002 E				
-003 E				
-004 H				
-005 H				
-006 H				
-007 A				
-009 G				
-011 G				
-012 G				
-013 G				
-014 H				
-015 E				
-016 E				
-017 E				
BLANK QC343475				
BS QC343476				
BSD QC343477				
187065-001MS H				
-001MSD H				
	KC	6/9/06		

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90-95 degrees C)	95°C	KC 6/9/6
0.5 mL of spike solution was added to all spikes	S1792	
	S1793	
concentrated HNO3 used in digestion	B49053 JT Baker	
1:1 HCl added to all samples	B33039 020906	
☐ filtered thru' Whatman # 541	NA	

K Carlyon 6/9/06
Extraction Chemist / Date

Continued from page ~~0~~
Continued on page ~~0~~ 613

7/5/06
Reviewed by / Date

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET06
Calnum : 66235645001
Units : ug/L

Date : 12-JUN-2006 15:49
X Axis : R

Reviewer: ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	f12p0005	66235645005		12-JUN-2006 15:56	S3607
L2	f12p0006	66235645006		12-JUN-2006 16:03	S3609
L3	f12p0007	66235645007		12-JUN-2006 16:11	S3610
L4	f12p0008	66235645008		12-JUN-2006 16:18	S3611
L5	f12p0009	66235645009		12-JUN-2006 16:25	S3605
L6	f12p0010	66235645010		12-JUN-2006 16:32	S3606

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum	A	19.901	5.2755	2.8693	0.6284	0.4802	0.4475	BLNK	-3.2570	2.24499		4.9337	0.999	0.995	
Antimony	A	0.2382	0.2294	0.2255	0.2277	0.2314	0.2329	BLNK	-0.0039	4.29889		0.2309	1.000	0.995	
Barium	A	0.1330	0.0703	0.0642	0.0606	0.0585	0.0587	BLNK	-0.0404	17.0400		0.0742	1.000	0.995	
Beryllium	A	0.2068	0.2110	0.2078	0.2106	0.2065	0.2094	BLNK	-0.0010	4.78841		0.2087	1.000	0.995	
Cadmium	A	0.0878	0.0739	0.0716	0.0702	0.0694	0.0683	BLNK	-0.0148	14.5900		0.0736	1.000	0.995	
Calcium	A	0.0490	0.0231	0.0199	0.0163	0.0154	0.0151	BLNK	-17.748	65.9798		0.0231	1.000	0.995	
Lead	A	0.3921	0.3281	0.3288	0.3211	0.3077	0.3028	BLNK	-0.0101	3.29158		0.3301	1.000	0.995	
Magnesium	A	0.4312	0.3957	0.3902	0.3667	0.3620	0.3580	BLNK	-1.4237	2.78729		0.3839	1.000	0.995	
Molybdenum	A	0.2112	0.1777	0.1748	0.1694	0.1686	0.1777	BLNK	-0.0240	5.68740		0.1799	0.999	0.995	
Potassium	A	2.8526	0.9532	0.7168	0.4912	0.4632	0.4521	BLNK	-49.464	2.20750		0.9882	1.000	0.995	
Silver	A	0.3224	0.2913	0.2943	0.2914	0.2947	0.2867	BLNK	-0.0113	3.46931		0.2968	1.000	0.995	
Thallium	A	0.7126	0.6488	0.6534	0.6527	0.6726	0.6729	BLNK	-0.0195	1.48653		0.6688	1.000	0.995	
Arsenic	E	0.5718	0.4611	0.4247	0.4111	0.4096	0.4058	BLNK	-0.0332	2.46024		0.4473	1.000	0.995	
Chromium	E	6.5492	2.3317	2.1089	1.9584	1.9157	1.8902	BLNK	-0.0927	0.52788		2.7924	1.000	0.995	
Cobalt	E	3.3663	2.8000	2.8441	2.7387	2.6813	2.6204	BLNK	-0.0117	0.37985		2.8418	1.000	0.995	
Copper	E	27.630	7.7970	5.9086	4.1549	3.9363	3.8558	BLNK	-0.4190	0.25890		8.8805	1.000	0.995	
Manganese	E	1.7901	1.4053	1.3091	1.2683	1.2504	1.2252	BLNK	-0.0185	0.81292		1.3747	1.000	0.995	
Nickel	E	2.1063	0.9245	0.8155	0.7228	0.6916	0.6670	BLNK	-0.1424	1.48942		0.9880	1.000	0.995	
Sodium	E	2.5182	0.8603	0.6708	0.4489	0.4282	0.4297	BLNK	-41.590	2.33441		0.8927	1.000	0.995	
Vanadium	E	3.8274	1.9710	1.7395	1.4895	1.4816	1.4739	BLNK	-0.1601	0.67841		1.9971	1.000	0.995	
Zinc	E	18.131	3.3265	2.3149	0.9624	0.8128	0.7862	BLNK	-1.3182	1.27312		4.3890	1.000	0.995	
Iron	H	0.8436	0.6754	0.6548	0.5705	0.5493	0.5360	BLNK	-7.7698	1.85724		0.6383	1.000	0.995	
Selenium	H	0.0942	0.0923	0.0935	0.1019	0.0981	0.0956	BLNK	-0.0095	10.4045		0.0959	1.000	0.995	

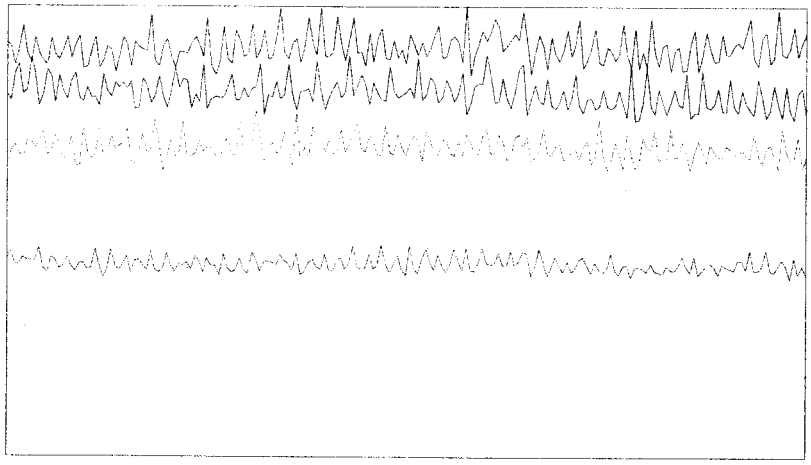
614

Instrument amount = a0 + response * a1 + response^2 * a2; BLNK=Y=aX+[blank]

66235645001

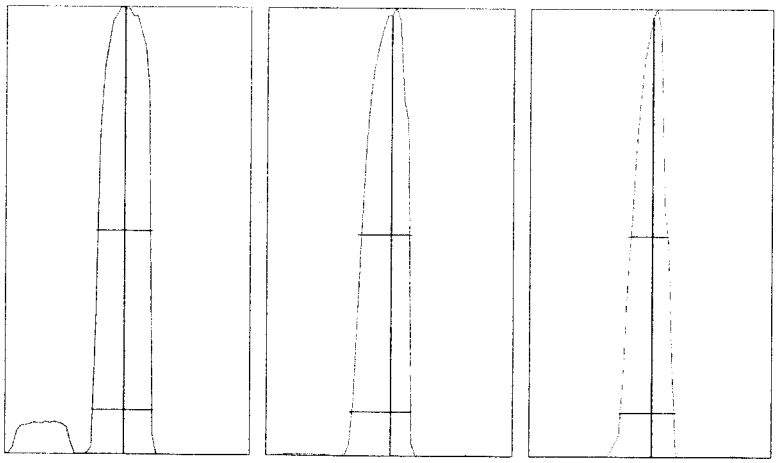
Tune Report

Tune File : norm.u
Comment :



Integration Time:	0.1000 sec	
Sampling Period:	0.7200 sec	
n:	200	
Oxide:	156/140	0.965%
Doubly Charged:	70/140	1.880%

m/z	Range	Count	Mean	RSD%	Background
7	20,000	18776.0	18149.5	3.73	0.20
59	50,000	20222.0	21375.7	3.88	0.50
89	50,000	33389.0	34255.2	3.82	0.20
205	20,000	15135.0	16116.5	3.98	0.80
156/140	2	0.954%	0.959%	7.15	
70/140	5	2.045%	1.899%	6.50	



m/z:	7	89	205
Height:	18,328	34,073	16,426
Axis:	7.00	89.05	205.05
W-50%:	0.70	0.65	0.50
W-10%:	0.7500	0.7500	0.700

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Generated : Jun 12, 2006 11:43:27
Printed : Jun 12, 2006 11:43:32

Tune Report

Tune File : norm.u
Comment :

Tuning Parameters

===Plasma Condition===			===Ion Lenses===			===Q-Pole Parameters===		
RF Power	:	1500 W	Extract 1	:	0 V	AMU Gain	:	132
RF Matching	:	1.72 V	Extract 2	:	-110 V	AMU Offset	:	125
Smpl Depth	:	8 mm	Omega Bias-ce	:	-30 V	Axis Gain	:	1.0001
Torch-H	:	0.4 mm	Omega Lens-ce	:	2 V	Axis Offset	:	0.03
Torch-V	:	0.5 mm	Cell Entrance	:	-30 V	QP Bias	:	-3 V
Carrier Gas	:	1.03 L/min	QP Focus	:	5 V			
Makeup Gas	:	0 L/min	Cell Exit	:	-30 V	===Detector Parameters===		
Optional Gas	:	--- %				Discriminator	:	8 mV
Nebulizer Pump	:	0.1 rps	===Octopole Parameters===			Analog HV	:	1650 V
Sample Pump	:	0.11 rps	OctP RF	:	150 V	Pulse HV	:	1100 V
S/C Temp	:	12 degC	OctP Bias	:	-5.6 V			

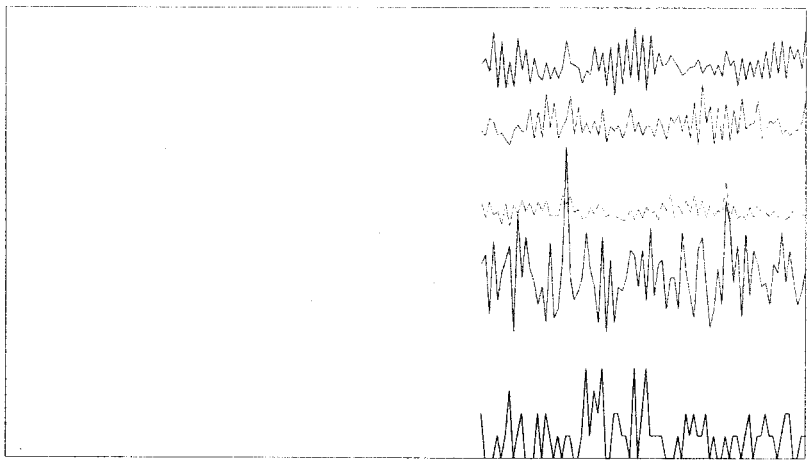
===Reaction Cell===

Reaction Mode	:	OFF						
H2 Gas	:	0 mL/min	He Gas	:	0 mL/min	Optional Gas	:	--- %

Generated : Jun 12, 2006 11:43:27
Printed : Jun 12, 2006 11:43:34

Sensitivity

Tune File : he.U



Integration Time: 0.1000 sec
Sampling Period: 0.5100 sec
n: 82

m/z	Range	Count	Mean	RSD%
59	5,000	4753.0	4369.9	4.08
89	5,000	3977.0	3701.9	4.07
140	10,000	5382.0	5476.8	3.17
51	100	42.0	40.7	17.94
75	20	1.0	1.0	103.55
51/59	2	0.884%	0.929%	16.67

Tuning Parameters

===Plasma Condition===

RF Power	:	1500 W
RF Matching	:	1.72 V
Smpl Depth	:	8 mm
Torch-H	:	0.4 mm
Torch-V	:	0.5 mm
Carrier Gas	:	1.03 L/min
Makeup Gas	:	0 L/min
Optional Gas	:	--- %
Nebulizer Pump	:	0.1 rps
Sample Pump	:	0.11 rps
S/C Temp	:	12 degC

===Ion Lenses===

Extract 1	:	0 V
Extract 2	:	-110 V
Omega Bias-ce	:	-30 V
Omega Lens-ce	:	2 V
Cell Entrance	:	-30 V
QP Focus	:	-10 V
Cell Exit	:	-40 V

===Octopole Parameters===

OctP RF	:	150 V
OctP Bias	:	-18 V

===Q-Pole Parameters===

AMU Gain	:	132
AMU Offset	:	125
Axis Gain	:	1.0001
Axis Offset	:	0.03
QP Bias	:	-13.9 V

===Detector Parameters===

Discriminator	:	8 mV
Analog HV	:	1650 V
Pulse HV	:	1100 V

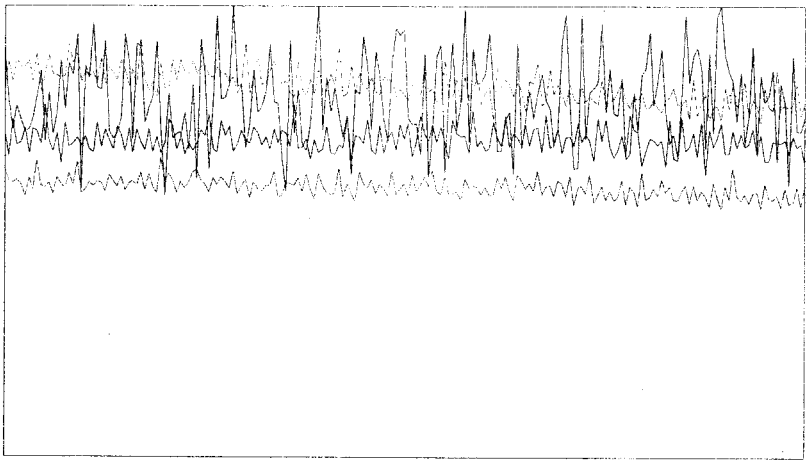
===Reaction Cell===

Reaction Mode	:	ON						
H2 Gas	:	0 mL/min	He Gas	:	4 mL/min	Optional Gas	:	--- %

Generated : Jun 12, 2006 11:50:05
Printed : Jun 12, 2006 11:50:10

Sensitivity

Tune File : h2.U



Integration Time: 0.1000 sec
Sampling Period: 0.6100 sec
n: 200

m/z	Range	Count	Mean	RSD%
59	5,000	3237.0	3519.1	4.11
89	20,000	12078.0	11969.1	3.60
140	5,000	3933.0	4109.8	4.49
57/56	5	3.765%	3.983%	12.22
78	20	0.0	0.2	229.70

Tuning Parameters

===Plasma Condition===			===Ion Lenses===			===Q-Pole Parameters===		
RF Power	:	1500 W	Extract 1	:	0 V	AMU Gain	:	132
RF Matching	:	1.72 V	Extract 2	:	-110 V	AMU Offset	:	125
Smpl Depth	:	8 mm	Omega Bias-ce	:	-30 V	Axis Gain	:	1.0001
Torch-H	:	0.4 mm	Omega Lens-ce	:	2 V	Axis Offset	:	0.03
Torch-V	:	0.5 mm	Cell Entrance	:	-30 V	QP Bias	:	-16 V
Carrier Gas	:	1.03 L/min	QP Focus	:	-8 V			
Makeup Gas	:	0 L/min	Cell Exit	:	-40 V	===Detector Parameters===		
Optional Gas	:	--- %				Discriminator	:	8 mV
Nebulizer Pump	:	0.1 rps	===Octopole Parameters===			Analog HV	:	1650 V
Sample Pump	:	0.11 rps	OctP RF	:	150 V	Pulse HV	:	1100 V
S/C Temp	:	12 degC	OctP Bias	:	-18 V			

===Reaction Cell===

Reaction Mode	:	ON						
H2 Gas	:	3.7 mL/min	He Gas	:	0 mL/min	Optional Gas	:	--- %

Generated : Jun 12, 2006 11:53:06
Printed : Jun 12, 2006 11:53:13

P/A Factor Tuning Report

Acquired:Jun 12 2006 11:57 am

Mass[amu]	Element	P/A Factor
6	Li	0.063558
7	(Li)	0.066810
9	Be	0.071920
23	Na	0.079047
24	Mg	0.082587
27	Al	0.085561
39	K	0.086652
44	Ca	Sensitivity too low
45	Sc	0.086770
51	V	0.088208
52	Cr	0.090966
55	Mn	0.092212
56	Fe	0.090387
59	Co	0.094924
60	Ni	Sensitivity too low
63	Cu	0.097819
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	0.096159
75	As	Sensitivity too low
78	Se	Sensitivity too low
89	Y	0.096676
98	Mo	Sensitivity too low
99	(Ru)	Sensitivity too low
107	Ag	0.102821
111	Cd	Sensitivity too low
115	In	0.102836
118	(In)	Sensitivity too low
121	Sb	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.105413
205	Tl	0.109188
206	(Pb)	Sensitivity too low
207	(Pb)	Sensitivity too low
208	Pb	0.109425
209	Bi	0.109794

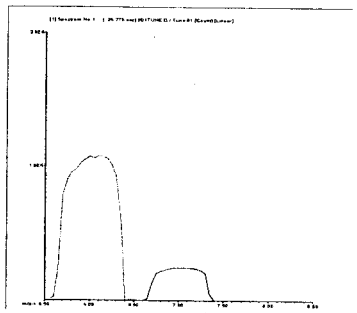
===Detector Parameters===
Discriminator: 8.0 mV
Analog HV: 1650 V
Pulse HV: 1100 V

6020 QC Tune Report

Data File:	C:\ICPCHEM\1\DATA\06F12p00.B\001TUNE.D
Date Acquired:	Jun 12 2006 03:25 pm
Acq. Method:	TN6020.M
Operator:	
Sample Name:	tun,s3622
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

Element	Actual	Required	Flag
7 Li	0.69	5.00	
59 Co	0.88	5.00	
115 In	1.38	5.00	
205 Tl	2.97	5.00	



7 Li

Mass Calib.

Actual: 7.05

Required: 6.90 - 7.10

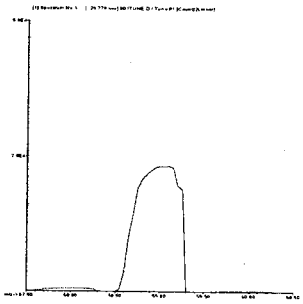
Flag:

Peak Width

Actual: 0.65

Required: 0.90

Flag:



59 Co

Mass Calib.

Actual: 59.05

Required: 58.90 - 59.10

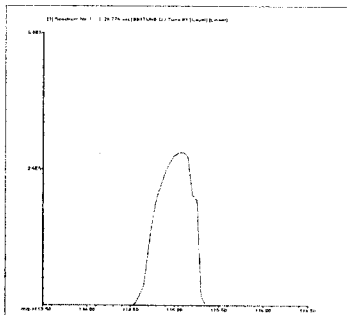
Flag:

Peak Width

Actual: 0.65

Required: 0.90

Flag:



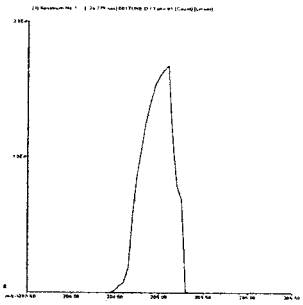
115 In

Mass Calib.

Actual: 115.05
Required: 114.90 - 115.10
Flag:

Peak Width

Actual: 0.60
Required: 0.90
Flag:



205 Tl

Mass Calib.

Actual: 205.00
Required: 204.90 - 205.10
Flag:

Peak Width

Actual: 0.55
Required: 0.90
Flag:

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06F12p00.B\004CALB.D\004CALB.D#
Date Acquired: Jun 12 2006 03:46 pm
Acq. Method: 6020.M
Operator:
Sample Name: calblank
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\6020.M
Calibration File: C:\ICPCHEM\1\DATA\06D21K00.B\6020.C
Last Cal. Update: Jun 12 2006 03:51 pm
Sample Type: CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
6	Li	---	3	1,095,743.00	1.08
7	(Li)	---	3	68,421.26	1.25
9	Be	6	3	4.44	114.56
23	Na	45	2	26,705.68	1.49
24	Mg	45	3	16,202.70	82.05
27	Al	45	3	45,910.12	32.56
39	K	45	3	708,074.44	4.17
44	Ca	45	3	8,507.54	22.60
45	Sc	---	1	568,379.44	0.41
45	Sc	---	2	74,947.19	0.39
45	Sc	---	3	1,579,768.40	0.97
51	V	45	2	353.71	6.24
52	Cr	45	2	263.34	12.11
55	Mn	45	2	34.07	11.45
56	Fe	45	1	47,563.08	9.32
59	Co	45	2	46.30	15.98
60	Ni	45	2	143.34	4.84
63	Cu	72	2	1,149.32	0.94
65	Cu	72	2	551.13	3.89
66	Zn	72	2	735.21	4.39
72	Ge	---	1	97,864.74	0.84
72	Ge	---	2	35,506.07	0.54
72	Ge	---	3	324,709.91	0.30
75	As	72	2	9.56	51.43
78	Se	72	1	1.78	43.30
89	Y	---	1	813,632.94	0.20
89	Y	---	2	259,222.28	0.52
89	Y	---	3	2,376,774.30	1.25
98	Mo	89	3	201.91	71.87
99	(Ru)	89	3	2.22	173.21
107	Ag	115	3	155.56	21.47
111	Cd	115	3	48.52	10.82
115	In	---	1	681,265.38	0.28
115	In	---	2	283,182.78	0.51
115	In	---	3	2,383,616.00	1.23
118	(In)	---	1	238.15	9.59
118	(In)	---	2	96.67	3.04
118	(In)	---	3	686.71	17.01
121	Sb	115	3	43.34	0.00
137	Ba	159	3	134.45	15.75
159	Tb	---	3	2,836,004.50	0.49
205	Tl	209	3	277.79	17.81
206	(Pb)	209	3	41.11	33.76
207	(Pb)	159	3	46.67	62.27
208	Pb	159	3	173.34	5.09
209	Bi	---	3	1,059,164.80	1.14

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\norm.u

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F12p00.B\005CALS.D\005CALS.D#
Date Acquired: Jun 12 2006 03:54 pm
Acq. Method: 6020.M
Operator:
Sample Name: s3607
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\6020.M
Calibration File: C:\ICPCHEM\1\DATA\06D21K00.B\6020.C
Last Cal. Update: Jun 12 2006 03:51 pm
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
6	Li	---	3	1087760.60	0.76
7	(Li)	---	3	67302.56	0.19
9	Be	6	3	450.02	9.63
23	Na	45	2	38040.46	1.24
24	Mg	45	3	135145.47	0.39
27	Al	45	3	62380.40	0.47
39	K	45	3	894121.25	0.61
44	Ca	45	3	15366.61	1.15
45	Sc	---	1	552281.94	0.66
45	Sc	---	2	75529.03	0.34
45	Sc	---	3	1567248.50	0.45
51	V	45	2	578.17	4.23
52	Cr	45	2	989.31	0.45
55	Mn	45	2	270.38	4.80
56	Fe	45	1	93181.68	0.46
59	Co	45	2	508.53	4.34
60	Ni	45	2	318.16	2.67
63	Cu	72	2	1967.94	2.21
65	Cu	72	2	982.27	3.56
66	Zn	72	2	1291.19	1.97
72	Ge	---	1	95614.63	1.07
72	Ge	---	2	35609.30	1.12
72	Ge	---	3	324260.84	0.56
75	As	72	2	40.67	17.27
78	Se	72	1	18.00	12.83
89	Y	---	1	789283.31	0.27
89	Y	---	2	260192.84	0.77
89	Y	---	3	2357690.30	1.04
98	Mo	89	3	996.42	5.39
99	(Ru)	89	3	2.22	173.21
107	Ag	115	3	1513.48	3.76
111	Cd	115	3	412.23	4.44
115	In	---	1	663292.63	0.32
115	In	---	2	283883.72	0.84
115	In	---	3	2347663.30	1.30
118	(In)	---	1	307.04	8.05
118	(In)	---	2	157.41	8.36
118	(In)	---	3	992.30	5.14
121	Sb	115	3	1118.98	7.56
137	Ba	159	3	751.16	0.68
159	Tb	---	3	2823824.30	0.24
205	Tl	209	3	1505.70	2.37
208	Pb	159	3	2214.61	1.81
209	Bi	---	3	1056757.00	2.62

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	1087761	0.76	1095743	99.3	80 - 120	
45	Sc	1	552282	0.66	568379	97.2	80 - 120	
45	Sc	2	75529	0.34	74947	100.8	80 - 120	
45	Sc	3	1567249	0.45	1579768	99.2	80 - 120	
72	Ge	1	95615	1.07	97865	97.7	80 - 120	
72	Ge	2	35609	1.12	35506	100.3	80 - 120	
72	Ge	3	324261	0.56	324710	99.9	80 - 120	
89	Y	1	789283	0.27	813633	97.0	80 - 120	
89	Y	2	260193	0.77	259222	100.4	80 - 120	
89	Y	3	2357690	1.04	2376774	99.2	80 - 120	
115	In	1	663293	0.32	681265	97.4	80 - 120	
115	In	2	283884	0.84	283183	100.2	80 - 120	
115	In	3	2347663	1.30	2383616	98.5	80 - 120	
159	Tb	3	2823824	0.24	2836005	99.6	80 - 120	
209	Bi	3	1056757	2.62	1059165	99.8	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\norm.u

ISTD Ref File : C:\ICPCHEM\1\DATA\06F12p00.B\004CALB.D\004CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F12p00.B\006CALS.D\006CALS.D#
Date Acquired: Jun 12 2006 04:01 pm
Acq. Method: 6020.M
Operator:
Sample Name: s3609
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\6020.M
Calibration File: C:\ICPCHEM\1\DATA\06D21K00.B\6020.C
Last Cal. Update: Jun 12 2006 03:59 pm
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
6	Li	---	3	1113399.40	0.14
7	(Li)	---	3	69540.99	1.53
9	Be	6	3	0.11	2.50
23	Na	45	2	43.02	0.24
24	Mg	45	3	19.78	1.78
27	Al	45	3	2.64	1.34
39	K	45	3	47.66	2.10
44	Ca	45	3	1.15	1.78
45	Sc	---	1	550717.50	0.42
45	Sc	---	2	75792.96	0.41
45	Sc	---	3	1596722.00	1.88
51	V	45	2	0.99	1.67
52	Cr	45	2	1.17	1.92
55	Mn	45	2	0.70	3.59
56	Fe	45	1	33.77	0.76
59	Co	45	2	1.40	3.84
60	Ni	45	2	0.46	5.32
63	Cu	72	2	3.90	1.77
65	Cu	72	2	1.84	2.11
66	Zn	72	2	1.66	0.82
72	Ge	---	1	96354.22	0.72
72	Ge	---	2	35707.71	0.79
72	Ge	---	3	328629.50	1.28
75	As	72	2	0.23	7.53
78	Se	72	1	0.05	11.93
89	Y	---	1	787903.00	1.01
89	Y	---	2	259329.30	0.39
89	Y	---	3	2407765.50	0.98
98	Mo	89	3	0.09	2.86
99	(Ru)	89	3	0.00	173.21
107	Ag	115	3	0.15	1.22
111	Cd	115	3	0.04	4.25
115	In	---	1	664281.00	0.54
115	In	---	2	281674.56	0.58
115	In	---	3	2372983.00	0.50
118	(In)	---	1	284.45	16.46
118	(In)	---	2	137.78	8.98
118	(In)	---	3	981.18	4.30
121	Sb	115	3	0.11	1.22
137	Ba	159	3	0.04	4.58
159	Tb	---	3	2842592.80	0.75
205	Tl	209	3	0.32	1.32
208	Pb	159	3	0.16	2.58
209	Bi	---	3	1050783.00	1.70

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	1113399	0.14	1095743	101.6	80 - 120	
45	Sc	1	550718	0.42	568379	96.9	80 - 120	
45	Sc	2	75793	0.41	74947	101.1	80 - 120	
45	Sc	3	1596722	1.88	1579768	101.1	80 - 120	
72	Ge	1	96354	0.72	97865	98.5	80 - 120	
72	Ge	2	35708	0.79	35506	100.6	80 - 120	
72	Ge	3	328630	1.28	324710	101.2	80 - 120	
89	Y	1	787903	1.01	813633	96.8	80 - 120	
89	Y	2	259329	0.39	259222	100.0	80 - 120	
89	Y	3	2407766	0.98	2376774	101.3	80 - 120	
115	In	1	664281	0.54	681265	97.5	80 - 120	
115	In	2	281675	0.58	283183	99.5	80 - 120	
115	In	3	2372983	0.50	2383616	99.6	80 - 120	
159	Tb	3	2842593	0.75	2836005	100.2	80 - 120	
209	Bi	3	1050783	1.70	1059165	99.2	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\norm.u

ISTD Ref File : C:\ICPCHEM\1\DATA\06F12p00.B\004CALB.D\004CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F12p00.B\007CALS.D\007CALS.D#
Date Acquired: Jun 12 2006 04:08 pm
Acq. Method: 6020.M
Operator:
Sample Name: s3610
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\6020.M
Calibration File: C:\ICPCHEM\1\DATA\06D21K00.B\6020.C
Last Cal. Update: Jun 12 2006 04:06 pm
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
6	Li	---	3	1104000.30	0.97
7	(Li)	---	3	68993.97	1.06
9	Be	6	3	0.21	2.13
23	Na	45	2	67.08	3.72
24	Mg	45	3	39.02	0.80
27	Al	45	3	2.87	0.87
39	K	45	3	71.68	1.02
44	Ca	45	3	1.99	0.79
45	Sc	---	1	553635.13	0.45
45	Sc	---	2	76912.27	0.63
45	Sc	---	3	1593862.80	0.53
51	V	45	2	1.74	1.26
52	Cr	45	2	2.11	0.72
55	Mn	45	2	1.31	4.07
56	Fe	45	1	65.48	0.31
59	Co	45	2	2.84	0.96
60	Ni	45	2	0.82	1.87
63	Cu	72	2	5.91	2.99
65	Cu	72	2	2.87	3.78
66	Zn	72	2	2.31	2.98
72	Ge	---	1	96285.58	0.30
72	Ge	---	2	35941.30	0.97
72	Ge	---	3	326313.84	0.70
75	As	72	2	0.42	1.91
78	Se	72	1	0.09	3.42
89	Y	---	1	791847.13	0.25
89	Y	---	2	262098.70	1.05
89	Y	---	3	2379575.80	0.22
98	Mo	89	3	0.17	2.20
99	(Ru)	89	3	0.00	69.49
107	Ag	115	3	0.29	1.75
111	Cd	115	3	0.07	1.02
115	In	---	1	665463.50	0.02
115	In	---	2	285031.88	0.75
115	In	---	3	2376145.50	0.38
118	(In)	---	1	310.75	9.11
118	(In)	---	2	180.37	12.01
118	(In)	---	3	1077.87	7.58
121	Sb	115	3	0.23	1.10
137	Ba	159	3	0.06	3.73
159	Tb	---	3	2869547.30	0.59
205	Tl	209	3	0.65	1.90
208	Pb	159	3	0.33	1.67
209	Bi	---	3	1060628.10	0.49

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	1104000	0.97	1095743	100.8	80 - 120	
45	Sc	1	553635	0.45	568379	97.4	80 - 120	
45	Sc	2	76912	0.63	74947	102.6	80 - 120	
45	Sc	3	1593863	0.53	1579768	100.9	80 - 120	
72	Ge	1	96286	0.30	97865	98.4	80 - 120	
72	Ge	2	35941	0.96	35506	101.2	80 - 120	
72	Ge	3	326314	0.70	324710	100.5	80 - 120	
89	Y	1	791847	0.25	813633	97.3	80 - 120	
89	Y	2	262099	1.05	259222	101.1	80 - 120	
89	Y	3	2379576	0.22	2376774	100.1	80 - 120	
115	In	1	665464	0.02	681265	97.7	80 - 120	
115	In	2	285032	0.75	283183	100.7	80 - 120	
115	In	3	2376146	0.38	2383616	99.7	80 - 120	
159	Tb	3	2869547	0.59	2836005	101.2	80 - 120	
209	Bi	3	1060628	0.49	1059165	100.1	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\norm.u

ISTD Ref File : C:\ICPCHEM\1\DATA\06F12p00.B\004CALB.D\004CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F12p00.B\008CALS.D\008CALS.D#
Date Acquired: Jun 12 2006 04:16 pm
Acq. Method: 6020.M
Operator:
Sample Name: s3611
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\6020.M
Calibration File: C:\ICPCHEM\1\DATA\06D21K00.B\6020.C
Last Cal. Update: Jun 12 2006 04:13 pm
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
6	Li	---	3	1138683.40	1.29
7	(Li)	---	3	70583.75	1.63
9	Be	6	3	2.11	1.30
23	Na	45	2	448.87	0.22
24	Mg	45	3	366.66	1.36
27	Al	45	3	6.28	1.37
39	K	45	3	491.15	2.00
44	Ca	45	3	16.26	1.74
45	Sc	---	1	563002.56	0.19
45	Sc	---	2	78151.55	1.07
45	Sc	---	3	1632287.40	1.60
51	V	45	2	14.89	0.56
52	Cr	45	2	19.58	1.15
55	Mn	45	2	12.68	1.10
56	Fe	45	1	570.53	0.72
59	Co	45	2	27.39	1.07
60	Ni	45	2	7.23	0.56
63	Cu	72	2	41.55	0.76
65	Cu	72	2	20.40	0.67
66	Zn	72	2	9.62	0.42
72	Ge	---	1	98252.53	0.67
72	Ge	---	2	36017.81	1.03
72	Ge	---	3	331379.56	0.56
75	As	72	2	4.11	1.95
78	Se	72	1	1.02	1.80
89	Y	---	1	800946.69	0.78
89	Y	---	2	262691.84	1.09
89	Y	---	3	2425859.80	0.60
98	Mo	89	3	1.69	0.55
99	(Ru)	89	3	0.00	68.66
107	Ag	115	3	2.91	0.11
111	Cd	115	3	0.70	0.33
115	In	---	1	662405.50	0.46
115	In	---	2	279559.59	1.66
115	In	---	3	2380730.80	0.50
118	(In)	---	1	402.60	1.39
118	(In)	---	2	205.56	6.23
118	(In)	---	3	1487.92	3.98
121	Sb	115	3	2.28	0.49
137	Ba	159	3	0.61	0.53
159	Tb	---	3	2862250.30	0.52
205	Tl	209	3	6.53	0.42
208	Pb	159	3	3.21	0.45
209	Bi	---	3	1058943.00	0.19

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	1138683	1.29	1095743	103.9	80 - 120	
45	Sc	1	563003	0.19	568379	99.1	80 - 120	
45	Sc	2	78152	1.07	74947	104.3	80 - 120	
45	Sc	3	1632287	1.60	1579768	103.3	80 - 120	
72	Ge	1	98253	0.67	97865	100.4	80 - 120	
72	Ge	2	36018	1.03	35506	101.4	80 - 120	
72	Ge	3	331380	0.56	324710	102.1	80 - 120	
89	Y	1	800947	0.78	813633	98.4	80 - 120	
89	Y	2	262692	1.09	259222	101.3	80 - 120	
89	Y	3	2425860	0.60	2376774	102.1	80 - 120	
115	In	1	662406	0.46	681265	97.2	80 - 120	
115	In	2	279560	1.66	283183	98.7	80 - 120	
115	In	3	2380731	0.50	2383616	99.9	80 - 120	
159	Tb	3	2862250	0.52	2836005	100.9	80 - 120	
209	Bi	3	1058943	0.19	1059165	100.0	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\norm.u

ISTD Ref File : C:\ICPCHEM\1\DATA\06F12p00.B\004CALB.D\004CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F12p00.B\009CALS.D\009CALS.D#
Date Acquired: Jun 12 2006 04:23 pm
Acq. Method: 6020.M
Operator:
Sample Name: s3605
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\6020.M
Calibration File: C:\ICPCHEM\1\DATA\06D21K00.B\6020.C
Last Cal. Update: Jun 12 2006 04:21 pm
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
6	Li	---	3	1144375.90	0.99
7	(Li)	---	3	70983.26	1.67
9	Be	6	3	20.65	0.90
23	Na	45	2	4281.85	1.11
24	Mg	45	3	3620.42	0.83
27	Al	45	3	48.02	2.00
39	K	45	3	4632.33	1.24
44	Ca	45	3	153.79	1.23
45	Sc	---	1	550709.06	0.60
45	Sc	---	2	74808.84	0.54
45	Sc	---	3	1612870.30	0.99
51	V	45	2	148.16	0.42
52	Cr	45	2	191.57	0.10
55	Mn	45	2	125.04	0.85
56	Fe	45	1	5492.96	1.60
59	Co	45	2	268.13	0.88
60	Ni	45	2	69.16	0.97
63	Cu	72	2	393.63	0.19
65	Cu	72	2	191.17	1.01
66	Zn	72	2	81.28	0.63
72	Ge	---	1	94340.81	0.51
72	Ge	---	2	33972.99	1.07
72	Ge	---	3	320455.06	0.76
75	As	72	2	40.96	1.27
78	Se	72	1	9.81	1.13
89	Y	---	1	762907.81	0.41
89	Y	---	2	243406.86	0.93
89	Y	---	3	2346124.50	0.82
98	Mo	89	3	16.86	1.18
99	(Ru)	89	3	0.00	43.79
107	Ag	115	3	29.47	0.92
111	Cd	115	3	6.94	0.41
115	In	---	1	614430.94	0.71
115	In	---	2	249761.38	1.14
115	In	---	3	2265591.50	0.86
118	(In)	---	1	1579.74	4.20
118	(In)	---	2	782.62	6.98
118	(In)	---	3	5716.99	1.61
121	Sb	115	3	23.14	0.73
137	Ba	159	3	5.85	1.12
159	Tb	---	3	2748719.00	0.97
205	Tl	209	3	67.26	1.01
208	Pb	159	3	30.77	0.97
209	Bi	---	3	964305.00	1.51

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	1144376	0.99	1095743	104.4	80 - 120	
45	Sc	1	550709	0.60	568379	96.9	80 - 120	
45	Sc	2	74809	0.54	74947	99.8	80 - 120	
45	Sc	3	1612870	0.99	1579768	102.1	80 - 120	
72	Ge	1	94341	0.51	97865	96.4	80 - 120	
72	Ge	2	33973	1.07	35506	95.7	80 - 120	
72	Ge	3	320455	0.76	324710	98.7	80 - 120	
89	Y	1	762908	0.41	813633	93.8	80 - 120	
89	Y	2	243407	0.93	259222	93.9	80 - 120	
89	Y	3	2346125	0.82	2376774	98.7	80 - 120	
115	In	1	614431	0.71	681265	90.2	80 - 120	
115	In	2	249761	1.14	283183	88.2	80 - 120	
115	In	3	2265592	0.86	2383616	95.0	80 - 120	
159	Tb	3	2748719	0.97	2836005	96.9	80 - 120	
209	Bi	3	964305	1.51	1059165	91.0	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\norm.u

ISTD Ref File : C:\ICPCHEM\1\DATA\06F12p00.B\004CALB.D\004CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F12p00.B\010CALS.D\010CALS.D#
Date Acquired: Jun 12 2006 04:30 pm
Acq. Method: 6020.M
Operator:
Sample Name: s3606
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\6020.M
Calibration File: C:\ICPCHEM\1\DATA\06D21K00.B\6020.C
Last Cal. Update: Jun 12 2006 04:28 pm
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
6	Li	---	3	1176876.00	0.29
7	(Li)	---	3	72479.74	0.21
9	Be	6	3	41.88	0.70
23	Na	45	2	8594.97	0.25
24	Mg	45	3	7159.46	1.50
27	Al	45	3	89.50	1.37
39	K	45	3	9041.66	1.10
44	Ca	45	3	302.37	0.78
45	Sc	---	1	546858.44	0.46
45	Sc	---	2	73803.52	1.92
45	Sc	---	3	1643720.90	0.85
51	V	45	2	294.79	1.74
52	Cr	45	2	378.05	1.19
55	Mn	45	2	245.03	1.99
56	Fe	45	1	10719.20	1.45
59	Co	45	2	524.07	1.34
60	Ni	45	2	133.39	1.47
63	Cu	72	2	771.16	1.16
65	Cu	72	2	373.21	0.99
66	Zn	72	2	157.24	1.42
72	Ge	---	1	92585.49	0.81
72	Ge	---	2	32846.61	1.69
72	Ge	---	3	324627.41	1.12
75	As	72	2	81.16	0.87
78	Se	72	1	19.12	0.93
89	Y	---	1	744124.19	0.33
89	Y	---	2	231092.36	1.65
89	Y	---	3	2360223.30	0.54
98	Mo	89	3	35.54	1.12
99	(Ru)	89	3	0.00	19.73
107	Ag	115	3	57.33	1.18
111	Cd	115	3	13.67	1.02
115	In	---	1	582183.69	0.60
115	In	---	2	230389.00	1.86
115	In	---	3	2235319.30	0.94
118	(In)	---	1	283.34	4.90
118	(In)	---	2	126.30	8.90
118	(In)	---	3	1024.52	8.13
121	Sb	115	3	46.59	1.16
137	Ba	159	3	11.75	0.60
159	Tb	---	3	2708106.80	1.25
205	Tl	209	3	134.58	0.95
208	Pb	159	3	60.56	1.71
209	Bi	---	3	916531.31	0.88

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	1176876	0.29	1095743	107.4	80 - 120	
45	Sc	1	546858	0.46	568379	96.2	80 - 120	
45	Sc	2	73804	1.92	74947	98.5	80 - 120	
45	Sc	3	1643721	0.85	1579768	104.0	80 - 120	
72	Ge	1	92585	0.81	97865	94.6	80 - 120	
72	Ge	2	32847	1.69	35506	92.5	80 - 120	
72	Ge	3	324627	1.12	324710	100.0	80 - 120	
89	Y	1	744124	0.33	813633	91.5	80 - 120	
89	Y	2	231092	1.65	259222	89.1	80 - 120	
89	Y	3	2360223	0.54	2376774	99.3	80 - 120	
115	In	1	582184	0.60	681265	85.5	80 - 120	
115	In	2	230389	1.86	283183	81.4	80 - 120	
115	In	3	2235319	0.94	2383616	93.8	80 - 120	
159	Tb	3	2708107	1.25	2836005	95.5	80 - 120	
209	Bi	3	916531	0.88	1059165	86.5	80 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\norm.u

ISTD Ref File : C:\ICPCHEM\1\DATA\06F12p00.B\004CALB.D\004CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Step	Mass	Element	r	a	b(blank)	DL	BEC	Unit
3	6	Li	0.0000	---	---	---	---	
3	9	Be	1.0000	2.088E-01	2.015E-04	3.294E-03	9.650E-04	ppb
2	23	Na	1.0000	4.284E-01	17.82	1.530	41.59	ppb
3	24	Mg	1.0000	3.588E-01	5.108E-01	3.468	1.424	ppb
3	27	Al	0.9997	4.454E-01	1.451	3.096	3.257	ppb
3	39	K	0.9999	4.530E-01	22.41	5.114	49.46	ppb
3	44	Ca	1.0000	1.516E-02	2.690E-01	11.62	17.75	ppb
1	45	Sc	0.0000	---	---	---	---	
2	45	Sc	0.0000	---	---	---	---	
3	45	Sc	0.0000	---	---	---	---	
2	51	V	1.0000	1.474	2.360E-01	2.896E-02	1.601E-01	ppb
2	52	Cr	1.0000	1.894	1.756E-01	3.256E-02	9.271E-02	ppb
2	55	Mn	1.0000	1.230	2.273E-02	6.214E-03	1.848E-02	ppb
1	56	Fe	0.9999	5.384E-01	4.184	2.121	7.770	ppb
2	59	Co	0.9999	2.633	3.090E-02	5.747E-03	1.174E-02	ppb
2	60	Ni	0.9999	6.714E-01	9.562E-02	1.982E-02	1.424E-01	ppb
2	63	Cu	1.0000	3.862	1.618	5.678E-03	4.190E-01	ppb
2	65	Cu	0.9999	1.871	7.762E-01	5.327E-02	4.149E-01	ppb
2	66	Zn	0.9999	7.855E-01	1.035	1.840E-01	1.318	ppb
1	72	Ge	0.0000	---	---	---	---	
2	72	Ge	0.0000	---	---	---	---	
3	72	Ge	0.0000	---	---	---	---	
2	75	As	1.0000	4.065E-01	1.348E-02	5.149E-02	3.316E-02	ppb
1	78	Se	0.9999	9.611E-02	9.105E-04	1.257E-02	9.473E-03	ppb
1	89	Y	0.0000	---	---	---	---	
2	89	Y	0.0000	---	---	---	---	
3	89	Y	0.0000	---	---	---	---	
3	98	Mo	0.9997	1.758E-01	4.227E-03	5.130E-02	2.404E-02	ppb
3	99	(Ru)	0.9528	1.708E-06	4.742E-05	144.3	27.77	ppb
3	107	Ag	0.9999	2.882E-01	3.259E-03	6.951E-03	1.130E-02	ppb
3	111	Cd	1.0000	6.854E-02	1.017E-03	4.444E-03	1.484E-02	ppb
1	115	In	0.0000	---	---	---	---	
2	115	In	0.0000	---	---	---	---	
3	115	In	0.0000	---	---	---	---	
3	121	Sb	1.0000	2.326E-01	9.091E-04	1.451E-04	3.908E-03	ppb
3	137	Ba	1.0000	5.869E-02	2.370E-03	1.900E-02	4.039E-02	ppb
3	159	Tb	0.0000	---	---	---	---	
3	205	Tl	1.0000	6.727E-01	1.310E-02	9.833E-03	1.947E-02	ppb
3	206	(Pb)	1.0000	2.260E-01	1.945E-03	8.978E-03	8.608E-03	ppb
3	207	(Pb)	1.0000	6.559E-02	8.212E-04	2.320E-02	1.252E-02	ppb
3	208	Pb	1.0000	3.038E-01	3.056E-03	1.407E-03	1.006E-02	ppb
3	209	Bi	0.0000	---	---	---	---	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66235645011 File : f12p0011 Time : 12-JUN-2006 16:40
Cal : 66235645001 Caldate: 12-JUN-2006
Standards: S3601

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	A	4.9337	0.4989	100.0	108.7	ug/L	9	10	
Antimony	A	0.2309	0.2304	100.0	99.05	ug/L	-1	10	
Barium	A	0.0742	0.0591	100.0	100.6	ug/L	1	10	
Beryllium	A	0.2087	0.2062	100.0	98.75	ug/L	-1	10	
Cadmium	A	0.0736	0.0687	100.0	100.2	ug/L	0	10	
Calcium	A	0.0231	0.0154	10000	10140	ug/L	1	10	
Lead	A	0.3301	0.3042	100.0	100.1	ug/L	0	10	
Magnesium	A	0.3839	0.3583	10000	9986	ug/L	0	10	
Molybdenum	A	0.1799	0.1675	100.0	95.22	ug/L	-5	10	
Potassium	A	0.9882	0.4618	10000	10140	ug/L	1	10	
Silver	A	0.2968	0.2939	100.0	101.9	ug/L	2	10	
Thallium	A	0.6688	0.6619	50.00	49.17	ug/L	-2	10	
Arsenic	E	0.4473	0.4131	100.0	101.6	ug/L	2	10	
Chromium	E	2.7924	1.8945	100.0	99.91	ug/L	0	10	
Cobalt	E	2.8418	2.6554	100.0	100.9	ug/L	1	10	
Copper	E	8.8805	3.8849	100.0	100.2	ug/L	0	10	
Manganese	E	1.3747	1.2456	100.0	101.2	ug/L	1	10	
Nickel	E	0.9880	0.6730	100.0	100.1	ug/L	0	10	
Sodium	E	0.8927	0.4191	10000	9741	ug/L	-3	10	
Vanadium	E	1.9971	1.4657	100.0	99.28	ug/L	-1	10	
Zinc	E	4.3890	0.8022	100.0	100.8	ug/L	1	10	
Iron	H	0.6383	0.5457	10000	10130	ug/L	1	10	
Selenium	H	0.0959	0.0972	100.0	101.2	ug/L	1	10	

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1095743	1185106	8.16
Scandium	A	1579768	1659903	5.07
Scandium	E	74947	78552	4.81
Scandium	H	568379	559137	-1.63
Germanium	H	97865	95988	-1.92
Germanium	E	35506	35471	-0.10
Indium	A	2383616	2303815	-3.35
Bismuth	A	1059165	951016	-10.21
Yttrium	A	2376774	2420550	1.84
Terbium	A	2836005	2749382	-3.05

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET06
Seqnum : 66235645030 File : f12p0030 IDF : 1.0
Cal : 66235645001 Caldate: 12-JUN-2006 Time : 12-JUN-2006 19:03
Standards: S3602

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	4.9337	0.4624	100.0	100.6	ug/L	1	10	
Antimony	A	0.2309	0.2303	100.0	99.00	ug/L	-1	10	
Barium	A	0.0742	0.0565	100.0	96.29	ug/L	-4	10	
Beryllium	A	0.2087	0.2065	100.0	98.86	ug/L	-1	10	
Cadmium	A	0.0736	0.0677	100.0	98.82	ug/L	-1	10	
Calcium	A	0.0231	0.0152	10000	10010	ug/L	0	10	
Lead	A	0.3301	0.3065	100.0	100.9	ug/L	1	10	
Magnesium	A	0.3839	0.3306	10000	9212	ug/L	-8	10	
Molybdenum	A	0.1799	0.1632	100.0	92.80	ug/L	-7	10	
Potassium	A	0.9882	0.4454	10000	9782	ug/L	-2	10	
Silver	A	0.2968	0.2864	100.0	99.36	ug/L	-1	10	
Thallium	A	0.6688	0.6501	50.00	48.30	ug/L	-3	10	
Arsenic	E	0.4473	0.4002	100.0	98.43	ug/L	-2	10	
Chromium	E	2.7924	1.9008	100.0	100.2	ug/L	0	10	
Cobalt	E	2.8418	2.6659	100.0	101.3	ug/L	1	10	
Copper	E	8.8805	3.6405	100.0	93.83	ug/L	-6	10	
Manganese	E	1.3747	1.2611	100.0	102.5	ug/L	3	10	
Nickel	E	0.9880	0.6788	100.0	101.0	ug/L	1	10	
Sodium	E	0.8927	0.3967	10000	9218	ug/L	-8	10	
Vanadium	E	1.9971	1.4661	100.0	99.30	ug/L	-1	10	
Zinc	E	4.3890	0.7757	100.0	97.44	ug/L	-3	10	
Iron	H	0.6383	0.5584	10000	10360	ug/L	4	10	
Selenium	H	0.0959	0.0983	100.0	102.2	ug/L	2	10	

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1095743	953243	-13.00
Scandium	A	1579768	1512976	-4.23
Scandium	E	74947	70006	-6.59
Scandium	H	568379	511997	-9.92
Germanium	H	97865	90925	-7.09
Germanium	E	35506	33921	-4.46
Indium	A	2383616	2250829	-5.57
Bismuth	A	1059165	1019987	-3.70
Yttrium	A	2376774	2319434	-2.41
Terbium	A	2836005	2837369	0.05

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66235645039 File : f12p0039 Time : 12-JUN-2006 20:10
Cal : 66235645001 Caldate: 12-JUN-2006
Standards: S3602, S3310

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	4.9337	0.4347	100.0	94.34	ug/L	-6	10	
Antimony	A	0.2309	0.2349	100.0	101.0	ug/L	1	10	
Barium	A	0.0742	0.0563	100.0	95.96	ug/L	-4	10	
Beryllium	A	0.2087	0.2101	100.0	100.6	ug/L	1	10	
Cadmium	A	0.0736	0.0675	100.0	98.46	ug/L	-2	10	
Calcium	A	0.0231	0.0155	10000	10210	ug/L	2	10	
Lead	A	0.3301	0.3107	100.0	102.3	ug/L	2	10	
Magnesium	A	0.3839	0.3207	10000	8938	ug/L	**-11**	10	c- ***
Molybdenum	A	0.1799	0.1625	100.0	92.40	ug/L	-8	10	
Potassium	A	0.9882	0.4497	10000	9878	ug/L	-1	10	
Silver	A	0.2968	0.2814	100.0	97.60	ug/L	-2	10	
Thallium	A	0.6688	0.6572	50.00	48.83	ug/L	-2	10	
Arsenic	E	0.4473	0.3954	100.0	97.24	ug/L	-3	10	
Chromium	E	2.7924	1.9309	100.0	101.8	ug/L	2	10	
Cobalt	E	2.8418	2.7206	100.0	103.3	ug/L	3	10	
Copper	E	8.8805	3.4987	100.0	90.16	ug/L	-10	10	
Manganese	E	1.3747	1.2774	100.0	103.8	ug/L	4	10	
Nickel	E	0.9880	0.6859	100.0	102.0	ug/L	2	10	
Sodium	E	0.8927	0.3831	10000	8901	ug/L	**-11**	10	c- ***
Vanadium	E	1.9971	1.4790	100.0	100.2	ug/L	0	10	
Zinc	E	4.3890	0.7622	100.0	95.72	ug/L	-4	10	
Iron	H	0.6383	0.5701	10000	10580	ug/L	6	10	
Selenium	H	0.0959	0.1000	100.0	104.1	ug/L	4	10	

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1095743	821332	-25.04
Scandium	A	1579768	1408386	-10.85
Scandium	E	74947	65868	-12.11
Scandium	H	568379	492616	-13.33
Germanium	H	97865	89451	-8.60
Germanium	E	35506	33804	-4.79
Indium	A	2383616	2240117	-6.02
Bismuth	A	1059165	1050932	-0.78
Yttrium	A	2376774	2291177	-3.60
Terbium	A	2836005	2880024	1.55

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66235645054 File : f12p0054 Time : 12-JUN-2006 22:00
Cal : 66235645001 Caldate: 12-JUN-2006
Standards: S3602, S3310

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	4.9337	1.0407	100.0	230.4	ug/L	**130**	10	>LR c+ ***
Antimony	A	0.2309	0.2308	100.0	99.19	ug/L	-1	10	
Barium	A	0.0742	0.0562	100.0	95.66	ug/L	-4	10	
Beryllium	A	0.2087	0.2017	100.0	96.60	ug/L	-3	10	
Cadmium	A	0.0736	0.0669	100.0	97.55	ug/L	-2	10	
Calcium	A	0.0231	0.0159	10000	10500	ug/L	5	10	
Lead	A	0.3301	0.3073	100.0	101.2	ug/L	1	10	
Magnesium	A	0.3839	0.3148	10000	8773	ug/L	**-12**	10	c- ***
Molybdenum	A	0.1799	0.1645	100.0	93.54	ug/L	-6	10	
Potassium	A	0.9882	0.4480	10000	9839	ug/L	-2	10	
Silver	A	0.2968	0.2782	100.0	96.52	ug/L	-3	10	
Thallium	A	0.6688	0.6504	50.00	48.32	ug/L	-3	10	
Arsenic	E	0.4473	0.3945	100.0	97.01	ug/L	-3	10	
Chromium	E	2.7924	1.9209	100.0	101.3	ug/L	1	10	
Cobalt	E	2.8418	2.7181	100.0	103.2	ug/L	3	10	
Copper	E	8.8805	3.4894	100.0	89.92	ug/L	-10	10	
Manganese	E	1.3747	1.2704	100.0	103.3	ug/L	3	10	
Nickel	E	0.9880	0.6870	100.0	102.2	ug/L	2	10	
Sodium	E	0.8927	0.3792	10000	8811	ug/L	**-12**	10	c- ***
Vanadium	E	1.9971	1.4678	100.0	99.42	ug/L	-1	10	
Zinc	E	4.3890	0.7564	100.0	94.98	ug/L	-5	10	
Iron	H	0.6383	0.5709	10000	10600	ug/L	6	10	
Selenium	H	0.0959	0.0998	100.0	103.8	ug/L	4	10	

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1095743	853025	-22.15
Scandium	A	1579768	1471261	-6.87
Scandium	E	74947	66395	-11.41
Scandium	H	568379	497153	-12.53
Germanium	H	97865	89860	-8.18
Germanium	E	35506	34146	-3.83
Indium	A	2383616	2283373	-4.21
Bismuth	A	1059165	1063970	0.45
Yttrium	A	2376774	2358162	-0.78
Terbium	A	2836005	2915585	2.81

+=high bias -=low bias >LR=overrange c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66235645060 File : f12p0060 Time : 12-JUN-2006 22:45
Cal : 66235645001 Caldate: 12-JUN-2006
Standards: S3602, S3310

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	4.9337	0.4306	100.0	93.42	ug/L	-7	10	
Antimony	A	0.2309	0.2330	100.0	100.2	ug/L	0	10	
Barium	A	0.0742	0.0567	100.0	96.50	ug/L	-4	10	
Beryllium	A	0.2087	0.2106	100.0	100.8	ug/L	1	10	
Cadmium	A	0.0736	0.0666	100.0	97.14	ug/L	-3	10	
Calcium	A	0.0231	0.0154	10000	10140	ug/L	1	10	
Lead	A	0.3301	0.3075	100.0	101.2	ug/L	1	10	
Magnesium	A	0.3839	0.3175	10000	8849	ug/L	**-12**	10	c- ***
Molybdenum	A	0.1799	0.1610	100.0	91.52	ug/L	-8	10	
Potassium	A	0.9882	0.4514	10000	9916	ug/L	-1	10	
Silver	A	0.2968	0.2782	100.0	96.49	ug/L	-4	10	
Thallium	A	0.6688	0.6591	50.00	48.97	ug/L	-2	10	
Arsenic	E	0.4473	0.3984	100.0	97.99	ug/L	-2	10	
Chromium	E	2.7924	1.9171	100.0	101.1	ug/L	1	10	
Cobalt	E	2.8418	2.7039	100.0	102.7	ug/L	3	10	
Copper	E	8.8805	3.5610	100.0	91.78	ug/L	-8	10	
Manganese	E	1.3747	1.2645	100.0	102.8	ug/L	3	10	
Nickel	E	0.9880	0.6848	100.0	101.8	ug/L	2	10	
Sodium	E	0.8927	0.3845	10000	8935	ug/L	**-11**	10	c- ***
Vanadium	E	1.9971	1.4669	100.0	99.36	ug/L	-1	10	
Zinc	E	4.3890	0.7691	100.0	96.59	ug/L	-3	10	
Iron	H	0.6383	0.5663	10000	10510	ug/L	5	10	
Selenium	H	0.0959	0.1002	100.0	104.3	ug/L	4	10	

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1095743	831739	-24.09
Scandium	A	1579768	1418155	-10.23
Scandium	E	74947	65030	-13.23
Scandium	H	568379	489805	-13.82
Germanium	H	97865	88171	-9.91
Germanium	E	35506	32662	-8.01
Indium	A	2383616	2266982	-4.89
Bismuth	A	1059165	1027796	-2.96
Yttrium	A	2376774	2308624	-2.87
Terbium	A	2836005	2862004	0.92

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66235645078 File : f12p0078 Time : 13-JUN-2006 00:56
Cal : 66235645001 Caldate: 12-JUN-2006
Standards: S3602, S3310

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	4.9337	0.4324	100.0	93.82	ug/L	-6	10	
Antimony	A	0.2309	0.2302	100.0	98.96	ug/L	-1	10	
Barium	A	0.0742	0.0566	100.0	96.41	ug/L	-4	10	
Beryllium	A	0.2087	0.2041	100.0	97.73	ug/L	-2	10	
Cadmium	A	0.0736	0.0668	100.0	97.47	ug/L	-3	10	
Calcium	A	0.0231	0.0153	10000	10050	ug/L	1	10	
Lead	A	0.3301	0.2996	100.0	98.61	ug/L	-1	10	
Magnesium	A	0.3839	0.3210	10000	8945	ug/L	**-11**	10	c- ***
Molybdenum	A	0.1799	0.1611	100.0	91.59	ug/L	-8	10	
Potassium	A	0.9882	0.4478	10000	9835	ug/L	-2	10	
Silver	A	0.2968	0.2812	100.0	97.55	ug/L	-2	10	
Thallium	A	0.6688	0.6653	50.00	49.43	ug/L	-1	10	
Arsenic	E	0.4473	0.3880	100.0	95.42	ug/L	-5	10	
Chromium	E	2.7924	1.8974	100.0	100.1	ug/L	0	10	
Cobalt	E	2.8418	2.6856	100.0	102.0	ug/L	2	10	
Copper	E	8.8805	3.5867	100.0	92.44	ug/L	-8	10	
Manganese	E	1.3747	1.2510	100.0	101.7	ug/L	2	10	
Nickel	E	0.9880	0.6770	100.0	100.7	ug/L	1	10	
Sodium	E	0.8927	0.3912	10000	9090	ug/L	-9	10	
Vanadium	E	1.9971	1.4525	100.0	98.38	ug/L	-2	10	
Zinc	E	4.3890	0.7586	100.0	95.27	ug/L	-5	10	
Iron	H	0.6383	0.5587	10000	10370	ug/L	4	10	
Selenium	H	0.0959	0.0990	100.0	103.0	ug/L	3	10	

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1095743	907666	-17.16
Scandium	A	1579768	1449148	-8.27
Scandium	E	74947	66216	-11.65
Scandium	H	568379	493771	-13.13
Germanium	H	97865	88114	-9.96
Germanium	E	35506	32843	-7.50
Indium	A	2383616	2248440	-5.67
Bismuth	A	1059165	992933	-6.25
Yttrium	A	2376774	2319249	-2.42
Terbium	A	2836005	2853907	0.63

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66235645090 File : f12p0090 Time : 13-JUN-2006 02:25
Cal : 66235645001 Caldate: 12-JUN-2006
Standards: S3602, S3310

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	4.9337	0.4216	100.0	91.39	ug/L	-9	10	
Antimony	A	0.2309	0.2318	100.0	99.62	ug/L	0	10	
Barium	A	0.0742	0.0567	100.0	96.58	ug/L	-3	10	
Beryllium	A	0.2087	0.2037	100.0	97.53	ug/L	-2	10	
Cadmium	A	0.0736	0.0667	100.0	97.25	ug/L	-3	10	
Calcium	A	0.0231	0.0155	10000	10200	ug/L	2	10	
Lead	A	0.3301	0.3023	100.0	99.51	ug/L	0	10	
Magnesium	A	0.3839	0.3090	10000	8613	ug/L	**-14**	10	c- ***
Molybdenum	A	0.1799	0.1594	100.0	90.63	ug/L	-9	10	
Potassium	A	0.9882	0.4514	10000	9916	ug/L	-1	10	
Silver	A	0.2968	0.2797	100.0	97.03	ug/L	-3	10	
Thallium	A	0.6688	0.6602	50.00	49.05	ug/L	-2	10	
Arsenic	E	0.4473	0.3941	100.0	96.93	ug/L	-3	10	
Chromium	E	2.7924	1.9180	100.0	101.2	ug/L	1	10	
Cobalt	E	2.8418	2.7080	100.0	102.9	ug/L	3	10	
Copper	E	8.8805	3.5098	100.0	90.45	ug/L	-10	10	
Manganese	E	1.3747	1.2596	100.0	102.4	ug/L	2	10	
Nickel	E	0.9880	0.6838	100.0	101.7	ug/L	2	10	
Sodium	E	0.8927	0.3735	10000	8677	ug/L	**-13**	10	c- ***
Vanadium	E	1.9971	1.4716	100.0	99.67	ug/L	0	10	
Zinc	E	4.3890	0.7581	100.0	95.20	ug/L	-5	10	
Iron	H	0.6383	0.5653	10000	10490	ug/L	5	10	
Selenium	H	0.0959	0.0989	100.0	102.9	ug/L	3	10	

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1095743	837490	-23.57
Scandium	A	1579768	1458022	-7.71
Scandium	E	74947	65385	-12.76
Scandium	H	568379	493559	-13.16
Germanium	H	97865	88597	-9.47
Germanium	E	35506	33400	-5.93
Indium	A	2383616	2276214	-4.51
Bismuth	A	1059165	1018123	-3.87
Yttrium	A	2376774	2362617	-0.60
Terbium	A	2836005	2884800	1.72

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66235645107 File : f12p0107 Time : 13-JUN-2006 04:30
Cal : 66235645001 Caldate: 12-JUN-2006
Standards: S3602, S3310

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	4.9337	0.4284	100.0	92.92	ug/L	-7	10	
Antimony	A	0.2309	0.2275	100.0	97.81	ug/L	-2	10	
Barium	A	0.0742	0.0563	100.0	95.87	ug/L	-4	10	
Beryllium	A	0.2087	0.2008	100.0	96.15	ug/L	-4	10	
Cadmium	A	0.0736	0.0656	100.0	95.67	ug/L	-4	10	
Calcium	A	0.0231	0.0152	10000	10010	ug/L	0	10	
Lead	A	0.3301	0.2919	100.0	96.08	ug/L	-4	10	
Magnesium	A	0.3839	0.3096	10000	8627	ug/L	**-14**	10	c- ***
Molybdenum	A	0.1799	0.1583	100.0	89.98	ug/L	-10	10	
Potassium	A	0.9882	0.4457	10000	9789	ug/L	-2	10	
Silver	A	0.2968	0.2765	100.0	95.90	ug/L	-4	10	
Thallium	A	0.6688	0.6462	50.00	48.01	ug/L	-4	10	
Arsenic	E	0.4473	0.3872	100.0	95.23	ug/L	-5	10	
Chromium	E	2.7924	1.8650	100.0	98.35	ug/L	-2	10	
Cobalt	E	2.8418	2.6403	100.0	100.3	ug/L	0	10	
Copper	E	8.8805	3.5064	100.0	90.36	ug/L	-10	10	
Manganese	E	1.3747	1.2270	100.0	99.72	ug/L	0	10	
Nickel	E	0.9880	0.6705	100.0	99.72	ug/L	0	10	
Sodium	E	0.8927	0.3761	10000	8738	ug/L	**-13**	10	c- ***
Vanadium	E	1.9971	1.4307	100.0	96.90	ug/L	-3	10	
Zinc	E	4.3890	0.7445	100.0	93.47	ug/L	-7	10	
Iron	H	0.6383	0.5407	10000	10030	ug/L	0	10	
Selenium	H	0.0959	0.0966	100.0	100.4	ug/L	0	10	

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1095743	903135	-17.58
Scandium	A	1579768	1498485	-5.15
Scandium	E	74947	67520	-9.91
Scandium	H	568379	510001	-10.27
Germanium	H	97865	90409	-7.62
Germanium	E	35506	33581	-5.42
Indium	A	2383616	2310373	-3.07
Bismuth	A	1059165	1014051	-4.26
Yttrium	A	2376774	2379224	0.10
Terbium	A	2836005	2914274	2.76

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66235645122 File : f12p0122 Time : 13-JUN-2006 06:20
Cal : 66235645001 Caldate: 12-JUN-2006
Standards: S3602, S3310

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	4.9337	0.4365	100.0	94.74	ug/L	-5	10	
Antimony	A	0.2309	0.2274	100.0	97.74	ug/L	-2	10	
Barium	A	0.0742	0.0561	100.0	95.57	ug/L	-4	10	
Beryllium	A	0.2087	0.1965	100.0	94.09	ug/L	-6	10	
Cadmium	A	0.0736	0.0658	100.0	95.99	ug/L	-4	10	
Calcium	A	0.0231	0.0152	10000	9979	ug/L	0	10	
Lead	A	0.3301	0.2891	100.0	95.16	ug/L	-5	10	
Magnesium	A	0.3839	0.3173	10000	8844	ug/L	**-12**	10	c- ***
Molybdenum	A	0.1799	0.1565	100.0	88.96	ug/L	**-11**	10	c- ***
Potassium	A	0.9882	0.4498	10000	9880	ug/L	-1	10	
Silver	A	0.2968	0.2774	100.0	96.23	ug/L	-4	10	
Thallium	A	0.6688	0.6470	50.00	48.07	ug/L	-4	10	
Arsenic	E	0.4473	0.3853	100.0	94.77	ug/L	-5	10	
Chromium	E	2.7924	1.8625	100.0	98.22	ug/L	-2	10	
Cobalt	E	2.8418	2.6058	100.0	98.97	ug/L	-1	10	
Copper	E	8.8805	3.5204	100.0	90.72	ug/L	-9	10	
Manganese	E	1.3747	1.2114	100.0	98.46	ug/L	-2	10	
Nickel	E	0.9880	0.6561	100.0	97.58	ug/L	-2	10	
Sodium	E	0.8927	0.3814	10000	8861	ug/L	**-11**	10	c- ***
Vanadium	E	1.9971	1.4239	100.0	96.44	ug/L	-4	10	
Zinc	E	4.3890	0.7499	100.0	94.15	ug/L	-6	10	
Iron	H	0.6383	0.5363	10000	9952	ug/L	0	10	
Selenium	H	0.0959	0.0961	100.0	100.0	ug/L	0	10	

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1095743	977163	-10.82
Scandium	A	1579768	1538962	-2.58
Scandium	E	74947	68081	-9.16
Scandium	H	568379	509343	-10.39
Germanium	H	97865	89200	-8.85
Germanium	E	35506	33200	-6.49
Indium	A	2383616	2294361	-3.74
Bismuth	A	1059165	995288	-6.03
Yttrium	A	2376774	2415345	1.62
Terbium	A	2836005	2888667	1.86

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66235645129 File : f12p0129 Time : 13-JUN-2006 07:11
Cal : 66235645001 Caldate: 12-JUN-2006
Standards: S3602, S3310

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	4.9337	0.4320	100.0	93.71	ug/L	-6	10	
Antimony	A	0.2309	0.2279	100.0	97.96	ug/L	-2	10	
Barium	A	0.0742	0.0565	100.0	96.25	ug/L	-4	10	
Beryllium	A	0.2087	0.1962	100.0	93.93	ug/L	-6	10	
Cadmium	A	0.0736	0.0657	100.0	95.80	ug/L	-4	10	
Calcium	A	0.0231	0.0153	10000	10110	ug/L	1	10	
Lead	A	0.3301	0.2917	100.0	96.01	ug/L	-4	10	
Magnesium	A	0.3839	0.3160	10000	8806	ug/L	**-12**	10	c- ***
Molybdenum	A	0.1799	0.1601	100.0	91.04	ug/L	-9	10	
Potassium	A	0.9882	0.4486	10000	9854	ug/L	-1	10	
Silver	A	0.2968	0.2798	100.0	97.07	ug/L	-3	10	
Thallium	A	0.6688	0.6595	50.00	48.99	ug/L	-2	10	
Arsenic	E	0.4473	0.3929	100.0	96.64	ug/L	-3	10	
Chromium	E	2.7924	1.9005	100.0	100.2	ug/L	0	10	
Cobalt	E	2.8418	2.6614	100.0	101.1	ug/L	1	10	
Copper	E	8.8805	3.6011	100.0	92.81	ug/L	-7	10	
Manganese	E	1.3747	1.2413	100.0	100.9	ug/L	1	10	
Nickel	E	0.9880	0.6761	100.0	100.6	ug/L	1	10	
Sodium	E	0.8927	0.3909	10000	9083	ug/L	-9	10	
Vanadium	E	1.9971	1.4637	100.0	99.14	ug/L	-1	10	
Zinc	E	4.3890	0.7626	100.0	95.77	ug/L	-4	10	
Iron	H	0.6383	0.5537	10000	10280	ug/L	3	10	
Selenium	H	0.0959	0.0989	100.0	102.9	ug/L	3	10	

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1095743	977041	-10.83
Scandium	A	1579768	1519783	-3.80
Scandium	E	74947	66739	-10.95
Scandium	H	568379	502753	-11.55
Germanium	H	97865	88294	-9.78
Germanium	E	35506	32728	-7.82
Indium	A	2383616	2277528	-4.45
Bismuth	A	1059165	977591	-7.70
Yttrium	A	2376774	2352431	-1.02
Terbium	A	2836005	2869746	1.19

-=low bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66235645014 File : f12p0014 Time : 12-JUN-2006 17:02
Cal : 66235645001 Caldate: 12-JUN-2006

Analyte	Ch	Quant	RL	3X IDL	Units	Flags
Aluminum	A	ND	50.00	3.871	ug/L	
Antimony	A	ND	0.1000	0.01557	ug/L	
Barium	A	ND	0.1000	0.02280	ug/L	
Beryllium	A	ND	0.1000	0.01701	ug/L	
Cadmium	A	ND	0.1000	0.01572	ug/L	
Calcium	A	ND	10.00	11.39	ug/L	
Lead	A	ND	0.1000	0.01616	ug/L	
Magnesium	A	ND	10.00	3.993	ug/L	
Molybdenum	A	ND	0.1000	0.08529	ug/L	
Potassium	A	ND	10.00	11.51	ug/L	
Silver	A	ND	0.1000	0.01756	ug/L	
Thallium	A	ND	0.1000	0.1455	ug/L	
Arsenic	E	ND	0.1000	0.01328	ug/L	
Chromium	E	[0.007160]	0.1000	0.0009916	ug/L	!ib
Cobalt	E	ND	0.1000	0.007178	ug/L	
Copper	E	ND	0.1000	0	ug/L	
Manganese	E	ND	0.1000	0.01280	ug/L	
Nickel	E	[0.01113]	0.1000	0.003532	ug/L	!ib
Sodium	E	ND	10.00	151.2	ug/L	
Vanadium	E	ND	0.1000	0.01728	ug/L	
Zinc	E	ND	0.1000	0.02678	ug/L	
Iron	H	ND	10.00	21.34	ug/L	
Selenium	H	ND	0.1000	0.004642	ug/L	

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1095743	1188550	8.47
Scandium	A	1579768	1663324	5.29
Scandium	E	74947	80651	7.61
Scandium	H	568379	580869	2.20
Germanium	H	97865	100805	3.00
Germanium	E	35506	36855	3.80
Indium	A	2383616	2425515	1.76
Bismuth	A	1059165	1053239	-0.56
Yttrium	A	2376774	2448764	3.03
Terbium	A	2836005	2833445	-0.09

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET06
Seqnum : 66235645033 File : f12p0033
Cal : 66235645001 Caldate: 12-JUN-2006
IDF : 1.0
Time : 12-JUN-2006 19:25

Analyte	Ch	Quant	RL	3X IDL	Units	Flags
Aluminum	A	ND	50.00	3.871	ug/L	
Antimony	A	[0.01651]	0.1000	0.01557	ug/L	!ib
Barium	A	[0.02686]	0.1000	0.02280	ug/L	!ib
Beryllium	A	ND	0.1000	0.01701	ug/L	
Cadmium	A	ND	0.1000	0.01572	ug/L	
Calcium	A	ND	10.00	11.39	ug/L	
Lead	A	ND	0.1000	0.01616	ug/L	
Magnesium	A	ND	10.00	3.993	ug/L	
Molybdenum	A	ND	0.1000	0.08529	ug/L	
Potassium	A	ND	10.00	11.51	ug/L	
Silver	A	ND	0.1000	0.01756	ug/L	
Thallium	A	ND	0.1000	0.1455	ug/L	
Arsenic	E	[0.04405]	0.1000	0.01328	ug/L	!ib
Chromium	E	[0.05990]	0.1000	0.0009916	ug/L	!ib
Cobalt	E	[0.06465]	0.1000	0.007178	ug/L	!ib
Copper	E	ND	0.1000	0	ug/L	
Manganese	E	[0.08368]	0.1000	0.01280	ug/L	!ib
Nickel	E	[0.06723]	0.1000	0.003532	ug/L	!ib
Sodium	E	11.34	10.00	151.2	ug/L	ib ***
Vanadium	E	[0.05259]	0.1000	0.01728	ug/L	!ib
Zinc	E	[0.07661]	0.1000	0.02678	ug/L	!ib
Iron	H	ND	10.00	21.34	ug/L	
Selenium	H	ND	0.1000	0.004642	ug/L	

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1095743	938201	-14.38
Scandium	A	1579768	1477211	-6.49
Scandium	E	74947	70914	-5.38
Scandium	H	568379	515494	-9.30
Germanium	H	97865	92916	-5.06
Germanium	E	35506	34740	-2.16
Indium	A	2383616	2350406	-1.39
Bismuth	A	1059165	1113780	5.16
Yttrium	A	2376774	2322604	-2.28
Terbium	A	2836005	2913905	2.75

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66235645042 File : f12p0042 Time : 12-JUN-2006 20:32
Cal : 66235645001 Caldate: 12-JUN-2006

Analyte	Ch	Quant	RL	3X IDL	Units	Flags
Aluminum	A	ND	50.00	3.871	ug/L	
Antimony	A	ND	0.1000	0.01557	ug/L	
Barium	A	ND	0.1000	0.02280	ug/L	
Beryllium	A	ND	0.1000	0.01701	ug/L	
Cadmium	A	ND	0.1000	0.01572	ug/L	
Calcium	A	ND	10.00	11.39	ug/L	
Lead	A	ND	0.1000	0.01616	ug/L	
Magnesium	A	ND	10.00	3.993	ug/L	
Molybdenum	A	ND	0.1000	0.08529	ug/L	
Potassium	A	ND	10.00	11.51	ug/L	
Silver	A	ND	0.1000	0.01756	ug/L	
Thallium	A	ND	0.1000	0.1455	ug/L	
Arsenic	E	ND	0.1000	0.01328	ug/L	
Chromium	E	[0.003077]	0.1000	0.0009916	ug/L	!ib
Cobalt	E	ND	0.1000	0.007178	ug/L	
Copper	E	ND	0.1000	0	ug/L	
Manganese	E	ND	0.1000	0.01280	ug/L	
Nickel	E	[0.01500]	0.1000	0.003532	ug/L	!ib
Sodium	E	ND	10.00	151.2	ug/L	
Vanadium	E	ND	0.1000	0.01728	ug/L	
Zinc	E	ND	0.1000	0.02678	ug/L	
Iron	H	ND	10.00	21.34	ug/L	
Selenium	H	ND	0.1000	0.004642	ug/L	

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1095743	839723	-23.36
Scandium	A	1579768	1411747	-10.64
Scandium	E	74947	66596	-11.14
Scandium	H	568379	498285	-12.33
Germanium	H	97865	91115	-6.90
Germanium	E	35506	34318	-3.35
Indium	A	2383616	2343689	-1.68
Bismuth	A	1059165	1144007	8.01
Yttrium	A	2376774	2324703	-2.19
Terbium	A	2836005	2957361	4.28

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66235645056 File : f12p0056 Time : 12-JUN-2006 22:15
Cal : 66235645001 Caldate: 12-JUN-2006

Analyte	Ch	Quant	RL	3X IDL	Units	Flags
Aluminum	A	ND	50.00	3.871	ug/L	
Antimony	A	ND	0.1000	0.01557	ug/L	
Barium	A	ND	0.1000	0.02280	ug/L	
Beryllium	A	ND	0.1000	0.01701	ug/L	
Cadmium	A	ND	0.1000	0.01572	ug/L	
Calcium	A	ND	10.00	11.39	ug/L	
Lead	A	ND	0.1000	0.01616	ug/L	
Magnesium	A	ND	10.00	3.993	ug/L	
Molybdenum	A	ND	0.1000	0.08529	ug/L	
Potassium	A	ND	10.00	11.51	ug/L	
Silver	A	ND	0.1000	0.01756	ug/L	
Thallium	A	ND	0.1000	0.1455	ug/L	
Arsenic	E	ND	0.1000	0.01328	ug/L	
Chromium	E	ND	0.1000	0.0009916	ug/L	
Cobalt	E	ND	0.1000	0.007178	ug/L	
Copper	E	ND	0.1000	0	ug/L	
Manganese	E	ND	0.1000	0.01280	ug/L	
Nickel	E	[0.005676]	0.1000	0.003532	ug/L	!ib
Sodium	E	ND	10.00	151.2	ug/L	
Vanadium	E	ND	0.1000	0.01728	ug/L	
Zinc	E	[0.05226]	0.1000	0.02678	ug/L	!ib
Iron	H	ND	10.00	21.34	ug/L	
Selenium	H	ND	0.1000	0.004642	ug/L	

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1095743	821266	-25.05
Scandium	A	1579768	1436770	-9.05
Scandium	E	74947	66671	-11.04
Scandium	H	568379	498449	-12.30
Germanium	H	97865	91523	-6.48
Germanium	E	35506	34441	-3.00
Indium	A	2383616	2361796	-0.92
Bismuth	A	1059165	1130479	6.73
Yttrium	A	2376774	2355894	-0.88
Terbium	A	2836005	2998075	5.71

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66235645062 File : f12p0062 Time : 12-JUN-2006 22:59
Cal : 66235645001 Caldate: 12-JUN-2006

Analyte	Ch	Quant	RL	3X IDL	Units	Flags
Aluminum	A	ND	50.00	3.871	ug/L	
Antimony	A	ND	0.1000	0.01557	ug/L	
Barium	A	ND	0.1000	0.02280	ug/L	
Beryllium	A	ND	0.1000	0.01701	ug/L	
Cadmium	A	ND	0.1000	0.01572	ug/L	
Calcium	A	ND	10.00	11.39	ug/L	
Lead	A	ND	0.1000	0.01616	ug/L	
Magnesium	A	ND	10.00	3.993	ug/L	
Molybdenum	A	ND	0.1000	0.08529	ug/L	
Potassium	A	ND	10.00	11.51	ug/L	
Silver	A	ND	0.1000	0.01756	ug/L	
Thallium	A	ND	0.1000	0.1455	ug/L	
Arsenic	E	ND	0.1000	0.01328	ug/L	
Chromium	E	ND	0.1000	0.0009916	ug/L	
Cobalt	E	ND	0.1000	0.007178	ug/L	
Copper	E	ND	0.1000	0	ug/L	
Manganese	E	ND	0.1000	0.01280	ug/L	
Nickel	E	[0.01261]	0.1000	0.003532	ug/L	!ib
Sodium	E	ND	10.00	151.2	ug/L	
Vanadium	E	ND	0.1000	0.01728	ug/L	
Zinc	E	[0.05864]	0.1000	0.02678	ug/L	!ib
Iron	H	ND	10.00	21.34	ug/L	
Selenium	H	ND	0.1000	0.004642	ug/L	

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1095743	844116	-22.96
Scandium	A	1579768	1420973	-10.05
Scandium	E	74947	65282	-12.90
Scandium	H	568379	495159	-12.88
Germanium	H	97865	90500	-7.53
Germanium	E	35506	33664	-5.19
Indium	A	2383616	2366284	-0.73
Bismuth	A	1059165	1140898	7.72
Yttrium	A	2376774	2330059	-1.97
Terbium	A	2836005	2971870	4.79

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66235645080 File : f12p0080 Time : 13-JUN-2006 01:11
Cal : 66235645001 Caldate: 12-JUN-2006

Analyte	Ch	Quant	RL	3X IDL	Units	Flags
Aluminum	A	ND	50.00	3.871	ug/L	
Antimony	A	ND	0.1000	0.01557	ug/L	
Barium	A	ND	0.1000	0.02280	ug/L	
Beryllium	A	ND	0.1000	0.01701	ug/L	
Cadmium	A	ND	0.1000	0.01572	ug/L	
Calcium	A	ND	10.00	11.39	ug/L	
Lead	A	ND	0.1000	0.01616	ug/L	
Magnesium	A	ND	10.00	3.993	ug/L	
Molybdenum	A	ND	0.1000	0.08529	ug/L	
Potassium	A	ND	10.00	11.51	ug/L	
Silver	A	ND	0.1000	0.01756	ug/L	
Thallium	A	ND	0.1000	0.1455	ug/L	
Arsenic	E	ND	0.1000	0.01328	ug/L	
Chromium	E	[0.002715]	0.1000	0.0009916	ug/L	!ib
Cobalt	E	ND	0.1000	0.007178	ug/L	
Copper	E	ND	0.1000	0	ug/L	
Manganese	E	ND	0.1000	0.01280	ug/L	
Nickel	E	[0.009707]	0.1000	0.003532	ug/L	!ib
Sodium	E	ND	10.00	151.2	ug/L	
Vanadium	E	ND	0.1000	0.01728	ug/L	
Zinc	E	[0.05287]	0.1000	0.02678	ug/L	!ib
Iron	H	ND	10.00	21.34	ug/L	
Selenium	H	ND	0.1000	0.004642	ug/L	

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1095743	924295	-15.65
Scandium	A	1579768	1459207	-7.63
Scandium	E	74947	67092	-10.48
Scandium	H	568379	511763	-9.96
Germanium	H	97865	91977	-6.02
Germanium	E	35506	33669	-5.17
Indium	A	2383616	2362300	-0.89
Bismuth	A	1059165	1097483	3.62
Yttrium	A	2376774	2362928	-0.58
Terbium	A	2836005	2934883	3.49

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66235645093 File : f12p0093 Time : 13-JUN-2006 02:47
Cal : 66235645001 Caldate: 12-JUN-2006

Analyte	Ch	Quant	RL	3X IDL	Units	Flags
Aluminum	A	ND	50.00	3.871	ug/L	
Antimony	A	ND	0.1000	0.01557	ug/L	
Barium	A	ND	0.1000	0.02280	ug/L	
Beryllium	A	ND	0.1000	0.01701	ug/L	
Cadmium	A	ND	0.1000	0.01572	ug/L	
Calcium	A	ND	10.00	11.39	ug/L	
Lead	A	ND	0.1000	0.01616	ug/L	
Magnesium	A	ND	10.00	3.993	ug/L	
Molybdenum	A	ND	0.1000	0.08529	ug/L	
Potassium	A	ND	10.00	11.51	ug/L	
Silver	A	ND	0.1000	0.01756	ug/L	
Thallium	A	ND	0.1000	0.1455	ug/L	
Arsenic	E	ND	0.1000	0.01328	ug/L	
Chromium	E	[0.01922]	0.1000	0.0009916	ug/L	!ib
Cobalt	E	[0.02177]	0.1000	0.007178	ug/L	!ib
Copper	E	ND	0.1000	0	ug/L	
Manganese	E	[0.03539]	0.1000	0.01280	ug/L	!ib
Nickel	E	[0.01186]	0.1000	0.003532	ug/L	!ib
Sodium	E	ND	10.00	151.2	ug/L	
Vanadium	E	ND	0.1000	0.01728	ug/L	
Zinc	E	[0.05174]	0.1000	0.02678	ug/L	!ib
Iron	H	ND	10.00	21.34	ug/L	
Selenium	H	ND	0.1000	0.004642	ug/L	

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1095743	855546	-21.92
Scandium	A	1579768	1458971	-7.65
Scandium	E	74947	65986	-11.96
Scandium	H	568379	495347	-12.85
Germanium	H	97865	90351	-7.68
Germanium	E	35506	33935	-4.42
Indium	A	2383616	2378306	-0.22
Bismuth	A	1059165	1117041	5.46
Yttrium	A	2376774	2384394	0.32
Terbium	A	2836005	2983792	5.21

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66235645110 File : f12p0110 Time : 13-JUN-2006 04:52
Cal : 66235645001 Caldate: 12-JUN-2006

Analyte	Ch	Quant	RL	3X IDL	Units	Flags
Aluminum	A	ND	50.00	3.871	ug/L	
Antimony	A	ND	0.1000	0.01557	ug/L	
Barium	A	[0.03012]	0.1000	0.02280	ug/L	!ib
Beryllium	A	ND	0.1000	0.01701	ug/L	
Cadmium	A	[0.01587]	0.1000	0.01572	ug/L	!ib
Calcium	A	ND	10.00	11.39	ug/L	
Lead	A	ND	0.1000	0.01616	ug/L	
Magnesium	A	ND	10.00	3.993	ug/L	
Molybdenum	A	ND	0.1000	0.08529	ug/L	
Potassium	A	ND	10.00	11.51	ug/L	
Silver	A	ND	0.1000	0.01756	ug/L	
Thallium	A	ND	0.1000	0.1455	ug/L	
Arsenic	E	ND	0.1000	0.01328	ug/L	
Chromium	E	[0.008924]	0.1000	0.0009916	ug/L	!ib
Cobalt	E	ND	0.1000	0.007178	ug/L	
Copper	E	ND	0.1000	0	ug/L	
Manganese	E	ND	0.1000	0.01280	ug/L	
Nickel	E	ND	0.1000	0.003532	ug/L	
Sodium	E	ND	10.00	151.2	ug/L	
Vanadium	E	ND	0.1000	0.01728	ug/L	
Zinc	E	[0.04864]	0.1000	0.02678	ug/L	!ib
Iron	H	ND	10.00	21.34	ug/L	
Selenium	H	ND	0.1000	0.004642	ug/L	

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1095743	943412	-13.90
Scandium	A	1579768	1532487	-2.99
Scandium	E	74947	68747	-8.27
Scandium	H	568379	517418	-8.97
Germanium	H	97865	93541	-4.42
Germanium	E	35506	34211	-3.65
Indium	A	2383616	2428816	1.90
Bismuth	A	1059165	1113680	5.15
Yttrium	A	2376774	2456761	3.37
Terbium	A	2836005	3021096	6.53

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66235645125 File : f12p0125 Time : 13-JUN-2006 06:42
Cal : 66235645001 Caldate: 12-JUN-2006

Analyte	Ch	Quant	RL	3X IDL	Units	Flags
Aluminum	A	ND	50.00	3.871	ug/L	
Antimony	A	ND	0.1000	0.01557	ug/L	
Barium	A	[0.02336]	0.1000	0.02280	ug/L	!ib
Beryllium	A	ND	0.1000	0.01701	ug/L	
Cadmium	A	ND	0.1000	0.01572	ug/L	
Calcium	A	ND	10.00	11.39	ug/L	
Lead	A	ND	0.1000	0.01616	ug/L	
Magnesium	A	ND	10.00	3.993	ug/L	
Molybdenum	A	ND	0.1000	0.08529	ug/L	
Potassium	A	ND	10.00	11.51	ug/L	
Silver	A	ND	0.1000	0.01756	ug/L	
Thallium	A	ND	0.1000	0.1455	ug/L	
Arsenic	E	ND	0.1000	0.01328	ug/L	
Chromium	E	ND	0.1000	0.0009916	ug/L	
Cobalt	E	ND	0.1000	0.007178	ug/L	
Copper	E	ND	0.1000	0	ug/L	
Manganese	E	ND	0.1000	0.01280	ug/L	
Nickel	E	[0.005150]	0.1000	0.003532	ug/L	!ib
Sodium	E	ND	10.00	151.2	ug/L	
Vanadium	E	ND	0.1000	0.01728	ug/L	
Zinc	E	ND	0.1000	0.02678	ug/L	
Iron	H	ND	10.00	21.34	ug/L	
Selenium	H	ND	0.1000	0.004642	ug/L	

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1095743	982130	-10.37
Scandium	A	1579768	1540761	-2.47
Scandium	E	74947	68983	-7.96
Scandium	H	568379	518978	-8.69
Germanium	H	97865	91832	-6.16
Germanium	E	35506	34149	-3.82
Indium	A	2383616	2405306	0.91
Bismuth	A	1059165	1081434	2.10
Yttrium	A	2376774	2420327	1.83
Terbium	A	2836005	2954901	4.19

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66235645131 File : f12p0131 Time : 13-JUN-2006 07:26
Cal : 66235645001 Caldate: 12-JUN-2006

Analyte	Ch	Quant	RL	3X IDL	Units	Flags
Aluminum	A	ND	50.00	3.871	ug/L	
Antimony	A	ND	0.1000	0.01557	ug/L	
Barium	A	ND	0.1000	0.02280	ug/L	
Beryllium	A	ND	0.1000	0.01701	ug/L	
Cadmium	A	ND	0.1000	0.01572	ug/L	
Calcium	A	ND	10.00	11.39	ug/L	
Lead	A	ND	0.1000	0.01616	ug/L	
Magnesium	A	ND	10.00	3.993	ug/L	
Molybdenum	A	ND	0.1000	0.08529	ug/L	
Potassium	A	ND	10.00	11.51	ug/L	
Silver	A	ND	0.1000	0.01756	ug/L	
Thallium	A	ND	0.1000	0.1455	ug/L	
Arsenic	E	ND	0.1000	0.01328	ug/L	
Chromium	E	ND	0.1000	0.0009916	ug/L	
Cobalt	E	ND	0.1000	0.007178	ug/L	
Copper	E	ND	0.1000	0	ug/L	
Manganese	E	ND	0.1000	0.01280	ug/L	
Nickel	E	ND	0.1000	0.003532	ug/L	
Sodium	E	ND	10.00	151.2	ug/L	
Vanadium	E	ND	0.1000	0.01728	ug/L	
Zinc	E	ND	0.1000	0.02678	ug/L	
Iron	H	ND	10.00	21.34	ug/L	
Selenium	H	ND	0.1000	0.004642	ug/L	

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1095743	1020915	-6.83
Scandium	A	1579768	1553856	-1.64
Scandium	E	74947	70210	-6.32
Scandium	H	568379	518184	-8.83
Germanium	H	97865	92385	-5.60
Germanium	E	35506	34365	-3.21
Indium	A	2383616	2416693	1.39
Bismuth	A	1059165	1077016	1.69
Yttrium	A	2376774	2452742	3.20
Terbium	A	2836005	2944908	3.84

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66235645016 File : f12p0016 Time : 12-JUN-2006 17:16
Cal : 66235645001 Caldate: 12-JUN-2006
Standards: S3612, S3310

Analyte	Ch	Quant	RL	Units	Flags
Antimony	A	2.309	0.1000	ug/L	
Barium	A	1.057	0.1000	ug/L	
Beryllium	A	[0.03441]	0.1000	ug/L	
Cadmium	A	1.605	0.1000	ug/L	
Lead	A	1.168	0.1000	ug/L	
Silver	A	0.1795	0.1000	ug/L	
Thallium	A	0.1028	0.1000	ug/L	
Arsenic	E	0.2353	0.1000	ug/L	
Chromium	E	0.9622	0.1000	ug/L	
Cobalt	E	2.651	0.1000	ug/L	
Copper	E	1.395	0.1000	ug/L	
Manganese	E	1.129	0.1000	ug/L	
Nickel	E	0.7957	0.1000	ug/L	
Vanadium	E	[0.05563]	0.1000	ug/L	
Zinc	E	2.376	0.1000	ug/L	
Selenium	H	0.1327	0.1000	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Aluminum	A	100000	98960	ug/L	99
Calcium	A	300000	321800	ug/L	107
Magnesium	A	100000	98340	ug/L	98
Molybdenum	A	2000	2053	ug/L	103
Potassium	A	100000	103200	ug/L	103
Sodium	E	250000	268300	ug/L	107
Iron	H	250000	250100	ug/L	100

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1095743	816434	-25.49
Scandium	A	1579768	1168160	-26.05
Scandium	E	74947	54404	-27.41
Scandium	H	568379	440616	-22.48
Germanium	H	97865	71584	-26.85
Germanium	E	35506	23623	-33.47
Indium	A	2383616	1698477	-28.74
Bismuth	A	1059165	645706	-39.04
Yttrium	A	2376774	1847815	-22.26
Terbium	A	2836005	2229187	-21.40

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66235645017 File : f12p0017 Time : 12-JUN-2006 17:24
Cal : 66235645001 Caldate: 12-JUN-2006
Standards: S3620, S3310

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	100000	96570	ug/L	-3		
Cadmium	A	100.0	107.2	ug/L	7	20	
Calcium	A	300000	326400	ug/L	9		
Magnesium	A	100000	95920	ug/L	-4		
Molybdenum	A	2000	2073	ug/L	4		
Potassium	A	100000	103900	ug/L	4		
Silver	A	50.00	51.05	ug/L	2	20	
Arsenic	E	100.0	107.7	ug/L	8	20	
Chromium	E	200.0	218.4	ug/L	9	20	
Cobalt	E	200.0	205.3	ug/L	3	20	
Copper	E	200.0	185.9	ug/L	-7	20	
Manganese	E	200.0	219.6	ug/L	10	20	
Nickel	E	200.0	196.1	ug/L	-2	20	
Sodium	E	250000	266800	ug/L	7		
Vanadium	E	200.0	224.7	ug/L	12	20	
Zinc	E	100.0	109.7	ug/L	10	20	
Iron	H	250000	262900	ug/L	5		
Selenium	H	100.0	104.4	ug/L	4	20	

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Scandium	H	568379	407840	-28.25
Scandium	A	1579768	1065993	-32.52
Scandium	E	74947	49481	-33.98
Germanium	H	97865	68648	-29.85
Germanium	E	35506	22217	-37.43
Indium	A	2383616	1673796	-29.78
Yttrium	A	2376774	1785127	-24.89

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66235645035 File : f12p0035 Time : 12-JUN-2006 19:40
Cal : 66235645001 Caldate: 12-JUN-2006
Standards: S3612, S3310

Analyte	Ch	Quant	RL	Units	Flags
Antimony	A	2.247	0.1000	ug/L	
Barium	A	1.280	0.1000	ug/L	
Beryllium	A	[0.04141]	0.1000	ug/L	
Cadmium	A	1.444	0.1000	ug/L	
Lead	A	1.145	0.1000	ug/L	
Silver	A	0.1879	0.1000	ug/L	
Thallium	A	0.1427	0.1000	ug/L	
Arsenic	E	0.2304	0.1000	ug/L	
Chromium	E	0.9522	0.1000	ug/L	
Cobalt	E	2.588	0.1000	ug/L	
Copper	E	1.123	0.1000	ug/L	
Manganese	E	1.493	0.1000	ug/L	
Nickel	E	0.8284	0.1000	ug/L	
Vanadium	E	[0.09100]	0.1000	ug/L	
Zinc	E	2.154	0.1000	ug/L	
Selenium	H	[0.03273]	0.1000	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Aluminum	A	100000	90970	ug/L	91
Calcium	A	300000	306600	ug/L	102
Magnesium	A	100000	88920	ug/L	89
Molybdenum	A	2000	1968	ug/L	98
Potassium	A	100000	97630	ug/L	98
Sodium	E	250000	245900	ug/L	98
Iron	H	250000	252200	ug/L	101

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1095743	728689	-33.50
Scandium	A	1579768	1092189	-30.86
Scandium	E	74947	50947	-32.02
Scandium	H	568379	407308	-28.34
Germanium	H	97865	68484	-30.02
Germanium	E	35506	23026	-35.15
Indium	A	2383616	1703615	-28.53
Bismuth	A	1059165	662013	-37.50
Yttrium	A	2376774	1801539	-24.20
Terbium	A	2836005	2274144	-19.81

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66235645036 File : f12p0036 Time : 12-JUN-2006 19:48
Cal : 66235645001 Caldate: 12-JUN-2006
Standards: S3620, S3310

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	100000	89050	ug/L	-11		
Cadmium	A	100.0	100.3	ug/L	0	20	
Calcium	A	300000	307900	ug/L	3		
Magnesium	A	100000	88010	ug/L	-12		
Molybdenum	A	2000	1939	ug/L	-3		
Potassium	A	100000	96820	ug/L	-3		
Silver	A	50.00	46.87	ug/L	-6	20	
Arsenic	E	100.0	101.0	ug/L	1	20	
Chromium	E	200.0	203.4	ug/L	2	20	
Cobalt	E	200.0	192.5	ug/L	-4	20	
Copper	E	200.0	171.4	ug/L	-14	20	
Manganese	E	200.0	207.1	ug/L	4	20	
Nickel	E	200.0	182.4	ug/L	-9	20	
Sodium	E	250000	241000	ug/L	-4		
Vanadium	E	200.0	209.2	ug/L	5	20	
Zinc	E	100.0	102.7	ug/L	3	20	
Iron	H	250000	254800	ug/L	2		
Selenium	H	100.0	100.6	ug/L	1	20	

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Scandium	H	568379	395514	-30.41
Scandium	A	1579768	1041577	-34.07
Scandium	E	74947	48493	-35.30
Germanium	H	97865	67768	-30.75
Germanium	E	35506	22213	-37.44
Indium	A	2383616	1708038	-28.34
Yttrium	A	2376774	1788795	-24.74

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66235645051 File : f12p0051 Time : 12-JUN-2006 21:38
Cal : 66235645001 Caldate: 12-JUN-2006
Standards: S3612, S3310

Analyte	Ch	Quant	RL	Units	Flags
Antimony	A	2.224	0.1000	ug/L	
Barium	A	0.9610	0.1000	ug/L	
Beryllium	A	[0.007030]	0.1000	ug/L	
Cadmium	A	1.385	0.1000	ug/L	
Lead	A	1.119	0.1000	ug/L	
Silver	A	0.1389	0.1000	ug/L	
Thallium	A	[0.03665]	0.1000	ug/L	
Arsenic	E	0.1711	0.1000	ug/L	
Chromium	E	0.9024	0.1000	ug/L	
Cobalt	E	2.592	0.1000	ug/L	
Copper	E	1.130	0.1000	ug/L	
Manganese	E	1.115	0.1000	ug/L	
Nickel	E	0.7543	0.1000	ug/L	
Vanadium	E	[0.05770]	0.1000	ug/L	
Zinc	E	2.252	0.1000	ug/L	
Selenium	H	[0.03730]	0.1000	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Aluminum	A	100000	89700	ug/L	90
Calcium	A	300000	307900	ug/L	103
Magnesium	A	100000	88330	ug/L	88
Molybdenum	A	2000	1966	ug/L	98
Potassium	A	100000	98210	ug/L	98
Sodium	E	250000	243600	ug/L	97
Iron	H	250000	254700	ug/L	102

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1095743	696171	-36.47
Scandium	A	1579768	1076979	-31.83
Scandium	E	74947	49093	-34.50
Scandium	H	568379	395688	-30.38
Germanium	H	97865	66752	-31.79
Germanium	E	35506	22320	-37.14
Indium	A	2383616	1710393	-28.24
Bismuth	A	1059165	664989	-37.22
Yttrium	A	2376774	1810760	-23.81
Terbium	A	2836005	2293807	-19.12

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66235645052 File : f12p0052 Time : 12-JUN-2006 21:46
Cal : 66235645001 Caldate: 12-JUN-2006
Standards: S3620, S3310

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	100000	87070	ug/L	-13		
Cadmium	A	100.0	99.21	ug/L	-1	20	
Calcium	A	300000	304800	ug/L	2		
Magnesium	A	100000	85010	ug/L	-15		
Molybdenum	A	2000	1919	ug/L	-4		
Potassium	A	100000	96500	ug/L	-4		
Silver	A	50.00	47.08	ug/L	-6	20	
Arsenic	E	100.0	98.36	ug/L	-2	20	
Chromium	E	200.0	200.2	ug/L	0	20	
Cobalt	E	200.0	188.7	ug/L	-6	20	
Copper	E	200.0	167.8	ug/L	-16	20	
Manganese	E	200.0	201.9	ug/L	1	20	
Nickel	E	200.0	179.2	ug/L	-10	20	
Sodium	E	250000	235300	ug/L	-6		
Vanadium	E	200.0	204.2	ug/L	2	20	
Zinc	E	100.0	99.89	ug/L	0	20	
Iron	H	250000	250700	ug/L	0		
Selenium	H	100.0	99.31	ug/L	-1	20	

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Scandium	H	568379	411137	-27.67
Scandium	A	1579768	1085949	-31.26
Scandium	E	74947	49534	-33.91
Germanium	H	97865	69871	-28.60
Germanium	E	35506	22737	-35.96
Indium	A	2383616	1735837	-27.18
Yttrium	A	2376774	1843414	-22.44

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66235645085 File : f12p0085 Time : 13-JUN-2006 01:48
Cal : 66235645001 Caldate: 12-JUN-2006
Standards: S3612, S3310

Analyte	Ch	Quant	RL	Units	Flags
Antimony	A	2.205	0.1000	ug/L	
Barium	A	1.081	0.1000	ug/L	
Beryllium	A	[0.01649]	0.1000	ug/L	
Cadmium	A	1.353	0.1000	ug/L	
Lead	A	1.083	0.1000	ug/L	
Silver	A	0.1417	0.1000	ug/L	
Thallium	A	[0.03721]	0.1000	ug/L	
Arsenic	E	0.1686	0.1000	ug/L	
Chromium	E	0.8757	0.1000	ug/L	
Cobalt	E	2.529	0.1000	ug/L	
Copper	E	1.079	0.1000	ug/L	
Manganese	E	1.055	0.1000	ug/L	
Nickel	E	0.7728	0.1000	ug/L	
Vanadium	E	[0.06533]	0.1000	ug/L	
Zinc	E	2.028	0.1000	ug/L	
Selenium	H	[0.04659]	0.1000	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Aluminum	A	100000	87450	ug/L	87
Calcium	A	300000	303300	ug/L	101
Magnesium	A	100000	85710	ug/L	86
Molybdenum	A	2000	1928	ug/L	96
Potassium	A	100000	97030	ug/L	97
Sodium	E	250000	237800	ug/L	95
Iron	H	250000	246300	ug/L	99

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1095743	716600	-34.60
Scandium	A	1579768	1102133	-30.23
Scandium	E	74947	49609	-33.81
Scandium	H	568379	406283	-28.52
Germanium	H	97865	67932	-30.59
Germanium	E	35506	22452	-36.77
Indium	A	2383616	1737104	-27.12
Bismuth	A	1059165	662826	-37.42
Yttrium	A	2376774	1845297	-22.36
Terbium	A	2836005	2290065	-19.25

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66235645086 File : f12p0086 Time : 13-JUN-2006 01:55
Cal : 66235645001 Caldate: 12-JUN-2006
Standards: S3620, S3310

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	100000	86900	ug/L	-13		
Cadmium	A	100.0	99.68	ug/L	0	20	
Calcium	A	300000	306800	ug/L	2		
Magnesium	A	100000	84870	ug/L	-15		
Molybdenum	A	2000	1912	ug/L	-4		
Potassium	A	100000	97390	ug/L	-3		
Silver	A	50.00	47.41	ug/L	-5	20	
Arsenic	E	100.0	101.3	ug/L	1	20	
Chromium	E	200.0	201.4	ug/L	1	20	
Cobalt	E	200.0	191.4	ug/L	-4	20	
Copper	E	200.0	173.0	ug/L	-14	20	
Manganese	E	200.0	204.7	ug/L	2	20	
Nickel	E	200.0	181.1	ug/L	-9	20	
Sodium	E	250000	235700	ug/L	-6		
Vanadium	E	200.0	208.3	ug/L	4	20	
Zinc	E	100.0	101.8	ug/L	2	20	
Iron	H	250000	252700	ug/L	1		
Selenium	H	100.0	100.6	ug/L	1	20	

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Scandium	H	568379	401585	-29.35
Scandium	A	1579768	1086722	-31.21
Scandium	E	74947	48699	-35.02
Germanium	H	97865	68346	-30.16
Germanium	E	35506	22007	-38.02
Indium	A	2383616	1722181	-27.75
Yttrium	A	2376774	1859289	-21.77

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET06 IDF : 1.0
Seqnum : 66235645133 File : f12p0133 Time : 13-JUN-2006 07:41
Cal : 66235645001 Caldate: 12-JUN-2006
Standards: S3612, S3310

Analyte	Ch	Quant	RL	Units	Flags
Antimony	A	2.188	0.1000	ug/L	
Barium	A	1.008	0.1000	ug/L	
Beryllium	A	[0.02001]	0.1000	ug/L	
Cadmium	A	1.306	0.1000	ug/L	
Lead	A	1.077	0.1000	ug/L	
Silver	A	0.1428	0.1000	ug/L	
Thallium	A	[0.05684]	0.1000	ug/L	
Arsenic	E	0.1737	0.1000	ug/L	
Chromium	E	0.9272	0.1000	ug/L	
Cobalt	E	2.549	0.1000	ug/L	
Copper	E	1.147	0.1000	ug/L	
Manganese	E	1.041	0.1000	ug/L	
Nickel	E	0.7567	0.1000	ug/L	
Vanadium	E	[0.05934]	0.1000	ug/L	
Zinc	E	2.053	0.1000	ug/L	
Selenium	H	[0.04918]	0.1000	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Aluminum	A	100000	87690	ug/L	88
Calcium	A	300000	308100	ug/L	103
Magnesium	A	100000	85140	ug/L	85
Molybdenum	A	2000	1938	ug/L	97
Potassium	A	100000	98130	ug/L	98
Sodium	E	250000	236200	ug/L	94
Iron	H	250000	248600	ug/L	99

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Lithium	A	1095743	724832	-33.85
Scandium	A	1579768	1147558	-27.36
Scandium	E	74947	50222	-32.99
Scandium	H	568379	405427	-28.67
Germanium	H	97865	67099	-31.44
Germanium	E	35506	22342	-37.08
Indium	A	2383616	1776632	-25.46
Bismuth	A	1059165	657341	-37.94
Yttrium	A	2376774	1913143	-19.51
Terbium	A	2836005	2322297	-18.11

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET06
Seqnum : 66235645134 File : f12p0134 IDF : 1.0
Cal : 66235645001 Caldate: 12-JUN-2006 Time : 13-JUN-2006 07:48
Standards: S3620, S3310

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	A	100000	85210	ug/L	-15		
Cadmium	A	100.0	97.69	ug/L	-2	20	
Calcium	A	300000	305600	ug/L	2		
Magnesium	A	100000	82370	ug/L	-18		
Molybdenum	A	2000	1891	ug/L	-5		
Potassium	A	100000	96390	ug/L	-4		
Silver	A	50.00	46.60	ug/L	-7	20	
Arsenic	E	100.0	100.7	ug/L	1	20	
Chromium	E	200.0	199.2	ug/L	0	20	
Cobalt	E	200.0	189.6	ug/L	-5	20	
Copper	E	200.0	172.2	ug/L	-14	20	
Manganese	E	200.0	202.0	ug/L	1	20	
Nickel	E	200.0	179.4	ug/L	-10	20	
Sodium	E	250000	229700	ug/L	-8		
Vanadium	E	200.0	205.9	ug/L	3	20	
Zinc	E	100.0	101.1	ug/L	1	20	
Iron	H	250000	249900	ug/L	0		
Selenium	H	100.0	100.8	ug/L	1	20	

ISTD (ICALBLK f12p0004)	Ch	ICALBLK Abund	Abund	%Drift
Scandium	H	568379	413191	-27.30
Scandium	A	1579768	1146953	-27.40
Scandium	E	74947	50129	-33.11
Germanium	H	97865	69125	-29.37
Germanium	E	35506	22480	-36.69
Indium	A	2383616	1794139	-24.73
Yttrium	A	2376774	1936820	-18.51

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 66235645 Instrument: MET06 Agilent ICP-MS MET06 Begun: 12-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	f12p0001	TUN				12-JUN-2006 15:25	1.0	1.0				1	
002	f12p0002	X	RINSE			12-JUN-2006 15:34	1.0					2	
003	f12p0003	X	RINSE			12-JUN-2006 15:41	1.0					2	
004	f12p0004	ICALBLK	CALBLANK			12-JUN-2006 15:49	1.0	1.0				2	
005	f12p0005	ICAL				12-JUN-2006 15:56	1.0	1.0				3	
006	f12p0006	ICAL				12-JUN-2006 16:03	1.0	1.0				4	
007	f12p0007	ICAL				12-JUN-2006 16:11	1.0	1.0				5	
008	f12p0008	ICAL				12-JUN-2006 16:18	1.0	1.0				6	
009	f12p0009	ICAL				12-JUN-2006 16:25	1.0	1.0				7	
010	f12p0010	ICAL				12-JUN-2006 16:32	1.0	1.0				8	
011	f12p0011	ICV				12-JUN-2006 16:40	1.0	1.0			1	9	
012	f12p0012	X	RINSE			12-JUN-2006 16:47	1.0					2	
013	f12p0013	X				12-JUN-2006 16:54	1.0		9		1	2	
014	f12p0014	ICB				12-JUN-2006 17:02	1.0	1.0			1	2	
015	f12p0015	X				12-JUN-2006 17:09	1.0		1		1	2	
016	f12p0016	ICSA				12-JUN-2006 17:16	1.0	1.0			1	10 2	7:CA=321800
017	f12p0017	ICSAB				12-JUN-2006 17:24	1.0	1.0			1	11 2	11:CA=326400
018	f12p0018	X	RINSE			12-JUN-2006 17:31	1.0					2	
019	f12p0019	X	RINSE			12-JUN-2006 17:39	1.0					2	
020	f12p0020	X	RINSE			12-JUN-2006 17:46	1.0					2	
021	f12p0021	BLANK	QC343066	114197	Soil	12-JUN-2006 17:53	1.0	1.0			1	2	
022	f12p0022	X	WRONG CUP	114317		12-JUN-2006 18:01	50.0					2	
023	f12p0023	BS	QC343578	114317	Soil	12-JUN-2006 18:11	50.0	50.0	1	1	1	2	
024	f12p0024	BSD	QC343579	114317	Soil	12-JUN-2006 18:18	50.0	50.0	2	1	1	2	
025	f12p0025	X	RINSE			12-JUN-2006 18:25	1.0					2	
026	f12p0026	BLANK	QC343577	114317	Soil	12-JUN-2006 18:33	5.0	50.0			1	2	
027	f12p0027	MSS	187372-001	114317	Soil	12-JUN-2006 18:41	50.0	50.0	2		1	2	1:AL=1459.20
028	f12p0028	MS	QC343580	114317	Soil	12-JUN-2006 18:49	50.0	43.10	1		1	2	1:AL=1823.20
029	f12p0029	X	RINSE			12-JUN-2006 18:56	1.0					2	
030	f12p0030	CCV				12-JUN-2006 19:03	1.0	1.0			1	12	

Stds used: 1=S3622 2=S3310 3=S3607 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3602 13=S3085
Flags used: spk=5% spike rule

Analyst: KCarlyn Date: 6/13/06 KC

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 66235645 Instrument: MET06 Agilent ICP-MS MET06 Begun: 12-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
031	f12p0031	X	RINSE			12-JUN-2006 19:11	1.0					2	
032	f12p0032	X				12-JUN-2006 19:18	1.0					2	
033	f12p0033	CCB				12-JUN-2006 19:25	1.0	1.0	1		1	2	
034	f12p0034	MSD	QC343581	114317	Soil	12-JUN-2006 19:33	50.0	49.50	1	1	1	2	1:AL=1794.60
035	f12p0035	ICSA				12-JUN-2006 19:40	1.0	1.0			1	10 2	7:CA=306600
036	f12p0036	ICSAB				12-JUN-2006 19:48	1.0	1.0			1	11 2	10:CA=307900
037	f12p0037	X	RINSE			12-JUN-2006 19:55	1.0					2	
038	f12p0038	X	RINSE			12-JUN-2006 20:02	1.0					2	
039	f12p0039	CCV				12-JUN-2006 20:10	1.0	1.0	2		1	12 2	
040	f12p0040	X	RINSE			12-JUN-2006 20:17	1.0					2	
041	f12p0041	X				12-JUN-2006 20:24	1.0					2	
042	f12p0042	CCB				12-JUN-2006 20:32	1.0	1.0			1	2	
043	f12p0043	X	WRONG POSITN	114317	Soil	12-JUN-2006 20:39	50.0					2	
044	f12p0044	X	WRONG POSITN	114317	Soil	12-JUN-2006 20:47	50.0					2	
045	f12p0045	SAMPLE	187096-015	114197	Filtra	12-JUN-2006 20:54	10.0	1.0	2		1	2 spk	661
046	f12p0046	SAMPLE	187096-016	114197	Filtra	12-JUN-2006 21:01	10.0	1.0	2		1	2 spk	
047	f12p0047	SAMPLE	187096-017	114197	Filtra	12-JUN-2006 21:09	10.0	1.0	2		1	2 spk	
048	f12p0048	SAMPLE	187119-009	114197	Filtra	12-JUN-2006 21:16	10.0	1.0	2		1	2 spk	
049	f12p0049	SAMPLE	187119-010	114197	Filtra	12-JUN-2006 21:24	10.0	1.0	2		1	2 spk	
050	f12p0050	SAMPLE	187119-011	114197	Filtra	12-JUN-2006 21:31	10.0	1.0	2		1	2 spk	
051	f12p0051	ICSA				12-JUN-2006 21:38	1.0	1.0			1	10 2	7:CA=307900
052	f12p0052	ICSAB				12-JUN-2006 21:46	1.0	1.0			1	11 2	10:CA=304800
053	f12p0053	X	RINSE			12-JUN-2006 21:53	1.0					2	
054	f12p0054	CCV				12-JUN-2006 22:00	1.0	1.0	3		1	12 2	1:AL=230.400
055	f12p0055	X	RINSE			12-JUN-2006 22:08	1.0					2	
056	f12p0056	CCB				12-JUN-2006 22:15	1.0	1.0			1	2	
057	f12p0057	X				12-JUN-2006 22:22	1.0					2	
058	f12p0058	X	RINSE			12-JUN-2006 22:30	1.0					2	
059	f12p0059	X	RINSE			12-JUN-2006 22:37	1.0					2	
060	f12p0060	CCV				12-JUN-2006 22:45	1.0	1.0	2		1	12 2	

Stds used: 1=S3622 2=S3310 3=S3607 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3602 13=S3085
Flags used: spk=5% spike rule

Analyst: K Carlson Date: 6/13/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 66235645 Instrument: MET06 Agilent ICP-MS MET06 Begun: 12-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
061	f12p0061	X	RINSE			12-JUN-2006 22:52	1.0					2	
062	f12p0062	CCB				12-JUN-2006 22:59	1.0	1.0			1	2	
063	f12p0063	X				12-JUN-2006 23:07	1.0					2	
064	f12p0064	TUN				12-JUN-2006 23:12	1.0	1.0				1	
065	f12p0065	TUN				12-JUN-2006 23:19	1.0	1.0				1	
066	f12p0066	X	RINSE			12-JUN-2006 23:28	1.0					2	
067	f12p0067	MSS	187096-014	114197	Filtra	12-JUN-2006 23:36	10.0	1.0	2		1	2 spk	
068	f12p0068	X	INSUF. SAMPL	114197	Filtra	12-JUN-2006 23:43	10.0					2	
069	f12p0069	X	INSUF. SAMPL	114197	Filtra	12-JUN-2006 23:50	10.0					2	
070	f12p0070	X	INSUF. SAMPL	114197	Filtra	12-JUN-2006 23:58	10.0					2	
071	f12p0071	X	INSUF. SAMPL	114197	Filtra	13-JUN-2006 00:05	10.0					2	
072	f12p0072	X	INSUF. SAMPL	114197	Filtra	13-JUN-2006 00:12	10.0					2	
073	f12p0073	X	INSUF. SAMPL	114197	Filtra	13-JUN-2006 00:19	10.0					2	
074	f12p0074	SAMPLE	187166-008	114197	Filtra	13-JUN-2006 00:27	10.0	1.0	2		1	2 spk	
075	f12p0075	SAMPLE	187166-009	114197	Filtra	13-JUN-2006 00:34	10.0	1.0	2		1	2 spk	
076	f12p0076	SAMPLE	187166-010	114197	Filtra	13-JUN-2006 00:42	10.0	1.0	2		1	2 spk	
077	f12p0077	X	RINSE			13-JUN-2006 00:49	1.0					2	
078	f12p0078	CCV				13-JUN-2006 00:56	1.0	1.0	1		1	12 2	
079	f12p0079	X	RINSE			13-JUN-2006 01:04	1.0					2	
080	f12p0080	CCB				13-JUN-2006 01:11	1.0	1.0			1	2	
081	f12p0081	X				13-JUN-2006 01:18	1.0					2	
082	f12p0082	SAMPLE	187259-013	114197	Filtra	13-JUN-2006 01:26	10.0	1.0	2		1	2 spk	
083	f12p0083	SAMPLE	187259-014	114197	Filtra	13-JUN-2006 01:33	10.0	1.0	2		1	2 spk	
084	f12p0084	SAMPLE	187259-015	114197	Filtra	13-JUN-2006 01:40	10.0	1.0	3		1	2 spk	
085	f12p0085	ICSA				13-JUN-2006 01:48	1.0	1.0			1	10 2	7:CA=303300
086	f12p0086	ICSAB				13-JUN-2006 01:55	1.0	1.0			1	11 2	10:CA=306800
087	f12p0087	X	RINSE			13-JUN-2006 02:03	1.0					2	
088	f12p0088	X	RINSE			13-JUN-2006 02:10	1.0					2	
089	f12p0089	X	RINSE			13-JUN-2006 02:17	1.0					2	
090	f12p0090	CCV				13-JUN-2006 02:25	1.0	1.0	2		1	12 2	

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Stds used: 1=S3622 2=S3310 3=S3607 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3602 13=S3085
Flags used: spk=5% spike rule

Analyst: K Carlyon Date: 6/13/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 66235645 Instrument: MET06 Agilent ICP-MS MET06 Begun: 12-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
091	f12p0091	X	RINSE			13-JUN-2006 02:32	1.0					2	
092	f12p0092	X				13-JUN-2006 02:39	1.0					2	
093	f12p0093	CCB				13-JUN-2006 02:47	1.0	1.0			1	2	
094	f12p0094	BLANK	QC343475	114296	Filtra	13-JUN-2006 02:54	10.0	1.0	2		1	2	
095	f12p0095	BS	QC343476	114296	Filtra	13-JUN-2006 03:02	10.0	1.0	2		1	2	
096	f12p0096	BSD	QC343477	114296	Filtra	13-JUN-2006 03:09	10.0	1.0	2		1	2	
097	f12p0097	X	RINSE			13-JUN-2006 03:16	1.0					2	
098	f12p0098	MSS	187065-001	114296	Filtra	13-JUN-2006 03:24	10.0	1.0	2		1	2	
099	f12p0099	SER	QC343480	114296	Filtra	13-JUN-2006 03:31	50.0	1.0		2	1	2	
100	f12p0100	MS	QC343478	114296	Filtra	13-JUN-2006 03:38	10.0	1.0	1		1	2	2:NA=20230.0
101	f12p0101	MSD	QC343479	114296	Filtra	13-JUN-2006 03:46	10.0	1.0	1		1	2	2:NA=20500.0
102	f12p0102	PDS	QC343481	114296	Filtra	13-JUN-2006 03:53	10.0	1.0			1	13 2	
103	f12p0103	X	RINSE			13-JUN-2006 04:00	1.0					2	
104	f12p0104	SAMPLE	187065-002	114296	Filtra	13-JUN-2006 04:08	10.0	1.0	2		1	2	
105	f12p0105	SAMPLE	187065-003	114296	Filtra	13-JUN-2006 04:15	10.0	1.0	2		1	2	
106	f12p0106	X	RINSE			13-JUN-2006 04:22	1.0					2	
107	f12p0107	CCV				13-JUN-2006 04:30	1.0	1.0	2		1	12 2	
108	f12p0108	X	RINSE			13-JUN-2006 04:37	1.0					2	
109	f12p0109	X				13-JUN-2006 04:44	1.0					2	
110	f12p0110	CCB				13-JUN-2006 04:52	1.0	1.0			1	2	
111	f12p0111	SAMPLE	187065-004	114296	Filtra	13-JUN-2006 04:59	10.0	1.0	2		1	2	
112	f12p0112	SAMPLE	187065-005	114296	Filtra	13-JUN-2006 05:06	10.0	1.0	2		1	2	
113	f12p0113	SAMPLE	187065-006	114296	Filtra	13-JUN-2006 05:14	10.0	1.0	2		1	2	
114	f12p0114	SAMPLE	187065-007	114296	Filtra	13-JUN-2006 05:21	10.0	1.0	2		1	2	
115	f12p0115	SAMPLE	187065-009	114296	Filtra	13-JUN-2006 05:29	10.0	1.0	2		1	2	1:NA=29900.0
116	f12p0116	SAMPLE	187065-011	114296	Filtra	13-JUN-2006 05:36	10.0	1.0	2		1	2	1:NA=28760.0
117	f12p0117	SAMPLE	187065-012	114296	Filtra	13-JUN-2006 05:43	10.0	1.0	3		1	2	2:NA=42920.0
118	f12p0118	SAMPLE	187065-013	114296	Filtra	13-JUN-2006 05:50	10.0	1.0	3		1	2	2:NA=40470.0
119	f12p0119	SAMPLE	187065-014	114296	Filtra	13-JUN-2006 05:58	10.0	1.0	2		1	2	
120	f12p0120	SAMPLE	187065-015	114296	Filtra	13-JUN-2006 06:05	10.0	1.0	3		1	2	1:MN=212.800

Stds used: 1=S3622 2=S3310 3=S3607 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3602 13=S3085
Flags used: spk=5% spike rule

Analyst: Carlyn Date: 6/13/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 66235645 Instrument: MET06 Agilent ICP-MS MET06 Begun: 12-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
121	f12p0121	X	RINSE			13-JUN-2006 06:13	1.0					2	
122	f12p0122	CCV				13-JUN-2006 06:20	1.0	1.0	3		1	12 2	
123	f12p0123	X	RINSE			13-JUN-2006 06:27	1.0					2	
124	f12p0124	X				13-JUN-2006 06:35	1.0					2	
125	f12p0125	CCB				13-JUN-2006 06:42	1.0	1.0			1	2	
126	f12p0126	SAMPLE	187065-016	114296	Filtra	13-JUN-2006 06:49	10.0	1.0	2		1	2	
127	f12p0127	SAMPLE	187065-017	114296	Filtra	13-JUN-2006 06:57	10.0	1.0	2		1	2	
128	f12p0128	X	RINSE			13-JUN-2006 07:04	1.0					2	
129	f12p0129	CCV				13-JUN-2006 07:11	1.0	1.0	1		1	12 2	
130	f12p0130	X	RINSE			13-JUN-2006 07:18	1.0					2	
131	f12p0131	CCB				13-JUN-2006 07:26	1.0	1.0			1	2	
132	f12p0132	X				13-JUN-2006 07:33	1.0					2	
133	f12p0133	ICSA				13-JUN-2006 07:41	1.0	1.0			1	10 2	7:CA=308100
134	f12p0134	ICSAB				13-JUN-2006 07:48	1.0	1.0			1	11 2	9:CA=305600

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Stds used: 1=S3622 2=S3310 3=S3607 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3602 13=S3085
Flags used: spk=5% spike rule

Analyst: K Carlyn Date: 6/13/06

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 187112

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.04.51
Location: Presidio

Sample ID	Lab ID
514AGW101	187112-001
1065MW9B	187112-002
LF4GW103	187112-003
LF4GW104	187112-004
WT052506	187112-005
BHWGW01	187112-006
DUP0525063A	187112-007
HWGW100	187112-008
HWGW101	187112-009
BHWGW04	187112-010
BHWGW04RB05	187112-011
BHWGW05	187112-012
DW052506A	187112-013
1047MW101	187112-014
LF10GW01	187112-015
LF10GW03	187112-016
TB0525061A	187112-017

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 7/7/06
Operations Manager

Signature: _____ Date: 7/5/06
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**187112**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**05/26/06**
Samples Received:	**05/26/06**

This hardcopy data package contains sample and QC results for seventeen water samples, requested for the above referenced project on 05/26/06. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):
No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

Pesticides (EPA 8081A):
Low responses were observed for beta-BHC, delta-BHC, and 4,4'-DDE in the CCV analyzed 06/01/06 12:08; average CCV drift met method requirements. Low response was observed for 4,4'-DDE in the CCV analyzed 06/01/06 19:33; average CCV drift met method requirements. No other analytical problems were encountered.

Polynuclear Aromatics by HPLC (EPA 8310):
No analytical problems were encountered.

Metals (EPA 6010B, EPA 6020, and EPA 7470A) Water:
Low recoveries were observed for aluminum in the MS/MSD of 1065MW9B (lab # 187112-002); the BS/BSD were within limits. High RPD was also observed for aluminum; the RPD was acceptable in the BS/BSD, and this analyte was not detected at or above the RL in the associated sample. No other analytical problems were encountered.

Metals (EPA 6010B and EPA 6020) Filtrate:
Low recoveries were observed for aluminum in the MS/MSD of 1065MW9B (lab # 187112-002); the BS/BSD were within limits. High RPD was also observed for aluminum; the RPD was acceptable in the BS/BSD, and this analyte was not detected at or above the RL in the associated samples. The dissolved metals analysis for sample DW052506A (187112-013) was cancelled per J.Graber on 5/31/06. No other analytical problems were encountered.

Ion Chromatography (EPA 300.0):
No analytical problems were encountered.

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**187112**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**05/26/06**
Samples Received:	**05/26/06**

Total Cyanide (EPA 335.2):
Cal Science in Garden Grove, CA performed the analysis. Please see the Cal Science case narrative.

Total Oil & Grease (HEM) (EPA 1664A):
Matrix spikes were not performed for this analysis due to insufficient sample volume. No analytical problems were encountered.

Phenolic Compounds (EPA 420.1):
No analytical problems were encountered.

Alkalinity (EPA 310.1):
No analytical problems were encountered.

Sulfide (EPA 376.2):
No analytical problems were encountered.

Dissolved Sulfide (EPA 376.2):
The sulfide analysis for sample 1047MW101 (187112-014) was cancelled by J.Graber on 5/26/06; a properly preserved container was not provided from the field for this analysis. No analytical problems were encountered.

Total Dissolved Solids (TDS) (EPA 160.1):
No analytical problems were encountered.

pH (EPA 9040B):
No analytical problems were encountered.

Chain of Custody

Treadwell&Rollo
Environmental and Geotechnical Consultants
555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

187112

CHAIN OF CUSTODY RECORD
PRESIDIO OF SAN FRANCISCO

COC No. OP 2153
Page: 1 of 1

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTS / D. Bryant / P. Cornish
Recorder (signature required):
Sent to Laboratory (Name): C&T

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M)[1]	TPHfo (8015M)[1]	VOCs (8260)	General Chemistry[2]	OCPs (8081)	Metals - Dissolved[3] (23, 22, 13, 9, 8, 7, 3, Other)	Metals - Total[3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	BTEX/MTBE	Total Sulfide	~~Methane~~	Diss. Metals	Cyanide	Total oil & grease	pH, Diss. Sulfide	Phenolic cmpnd.	COMMENTS / NOTES
-1	514 MGW 101	5/25/06	0945			X		3				3	X	X	X							X	X								
-2	1065 MW 9B		1120			X		3		X	1	2	X	X	X		X		X		X		X	X							1 container of H_2O_2
-3	LF4GW103		930			X				1		1					X				X					X					
-4	LF4GW104		1015			X				1		1					X				X					X					
-5	WT052506		1620			X			1	1	2	2								X							X	X		
N/A	~~DW052506A~~		~~1330~~			X		6		~~2~~	~~2~~	~~10~~																			

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (**Other** - As, Cd, Cr, Cu, Pb, Hg, Ni, Ag, Zn)

RELINQUISHED BY:	DATE: 5/26	RECEIVED BY:	DATE: 5/26/06
PRINT NAME: FIRM:	TIME: 1210	PRINT NAME: AARON CRENIER FIRM: C&T	TIME: 1210
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

White Copy - Original **Yellow Copy** - Laboratory **Pink Copy** - Field

Treadwell&Rollo
Environmental and Geotechnical Consultants
555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

187112

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2114
Page: ___ of ___

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): J. DeJong, Peter Cornish, Devin Rand
Recorder (signature required): Joshua DeJong
Sent to Laboratory (Name): CHT

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

	SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260)	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	[redacted]	Total Sulfide	Diss. Metals (23)	TPHss			COMMENTS / NOTES
-6	BHWGW01	5/25/06	0920			X				X		1					X		X										
-7	DUP052506 3A		0925			X				X		1					X		X										
-8	HWGW100		1045			X				X		1					X		X										
-9	HWGW101		1125			X				X		1					X		X										
-10	BHWGW04		1210			X				X		1					X		X										
-11	BHWGW04RB05		1215			X				X		1					X		X										
-12	BHWGW05		1250			X				X		1					X		X										
-13	DW052506A		1510			X		6		22		10	X	X	X	X	X	X	X	X	X	X		X	X	X			1)
-14	1047MW101		1515			X		9								X								X		X			← No Sulfide per J. Graber 5/26/06 sds
-15	LF10GW01		1530			X		3				1	X	X	X														
-16	LF10GW03		1520			X		3				1	X	X	X														
-17	TB052506 1A		—			X		2								X													

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY: [signature]	DATE: 5/26	RECEIVED BY: [signature]	DATE: 5/26/06
PRINT NAME:	FIRM:	TIME: 1210	PRINT NAME: AARON GRENIER	FIRM: CHT	TIME: 1210
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME:	FIRM:	TIME:	PRINT NAME:	FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

White Copy - Original **Yellow Copy** - Laboratory **Pink Copy** - Field

1) Cancel Diss Metals on DW052506A per J. Graber 5/31/06 sds

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 187112 Date Received: 5-26-06 Number of Coolers: 4
Client: Treadwell & Rollo Project: 2893

A. Preliminary Examination Phase
Date Opened: 5-26-06 By (print): Troy Windsor (sign) Troy Windsor

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES (NO)
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... (YES) NO
   How many and where? 1 per over cooler lip Seal date: 5/25/06 Seal name: CS
3. Were custody seals unbroken and intact at the date and time of arrival? ..... (YES) NO
4. Were custody papers dry and intact when received? ..... (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO
6. Did you sign the custody papers in the appropriate place? ..... (YES) NO
7. Was project identifiable from custody papers? ..... (YES) NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... (YES) NO
   Type of ice: Wet Temperature: 2.4 3.1 2.9 5.4

B. Login Phase
Date Logged In: 5-26-06 By (print): Troy Windsor (sign) Troy Windsor

1. Describe type of packing in cooler: Ziplock type bags
2. Did all bottles arrive unbroken? ..... (YES) NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... (YES) NO
4. Did bottle labels agree with custody papers? ..... (YES) NO
5. Were appropriate containers used for the tests indicated? ..... (YES) NO
6. Were correct preservatives added to samples? ..... (YES) NO
7. Was sufficient amount of sample sent for tests indicated? ..... (YES) NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... (YES) NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

TOTAL VOLATILE HYDROCARBONS/

BTXE

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	514AGW101	Batch#:	113891
Lab ID:	187112-001	Sampled:	05/25/06
Matrix:	Water	Received:	05/26/06
Units:	ug/L	Analyzed:	05/28/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	97	65-135	EPA 8015B
Bromofluorobenzene (FID)	105	65-135	EPA 8015B
Trifluorotoluene (PID)	96	65-135	EPA 8021B
Bromofluorobenzene (PID)	107	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	1065MW9B	Batch#:	113891
Lab ID:	187112-002	Sampled:	05/25/06
Matrix:	Water	Received:	05/26/06
Units:	ug/L	Analyzed:	05/28/06
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	90	65-135	EPA 8015B
Bromofluorobenzene (FID)	92	65-135	EPA 8015B
Trifluorotoluene (PID)	91	65-135	EPA 8021B
Bromofluorobenzene (PID)	97	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	DW052506A	Batch#:	113891
Lab ID:	187112-013	Sampled:	05/25/06
Matrix:	Water	Received:	05/26/06
Units:	ug/L	Analyzed:	05/28/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
Stoddard Solvent C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	88	65-135
Bromofluorobenzene (FID)	93	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1047MW101	Batch#:	113891
Lab ID:	187112-014	Sampled:	05/25/06
Matrix:	Water	Received:	05/26/06
Units:	ug/L	Analyzed:	05/28/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
Stoddard Solvent C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	90	65-135
Bromofluorobenzene (FID)	96	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	LF10GW01	Batch#:	113891
Lab ID:	187112-015	Sampled:	05/25/06
Matrix:	Water	Received:	05/26/06
Units:	ug/L	Analyzed:	05/28/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	87	65-135
Bromofluorobenzene (FID)	91	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	LF10GW03	Batch#:	113891
Lab ID:	187112-016	Sampled:	05/25/06
Matrix:	Water	Received:	05/26/06
Units:	ug/L	Analyzed:	05/28/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	85	65-135
Bromofluorobenzene (FID)	87	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC341833	Batch#:	113891
Matrix:	Water	Analyzed:	05/28/06
Units:	ug/L		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
Stoddard Solvent C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	90	65-135	EPA 8015B
Bromofluorobenzene (FID)	93	65-135	EPA 8015B
Trifluorotoluene (PID)	90	65-135	EPA 8021B
Bromofluorobenzene (PID)	95	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8021B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC341834	Batch#:	113891
Matrix:	Water	Analyzed:	05/28/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
MTBE	20.00	18.60	93	65-135
Benzene	20.00	20.96	105	65-135
Toluene	20.00	21.61	108	65-135
Ethylbenzene	20.00	20.58	103	65-135

Surrogate	%REC	Limits
Trifluorotoluene (PID)	101	65-135
Bromofluorobenzene (PID)	104	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC341835	Batch#:	113891
Matrix:	Water	Analyzed:	05/28/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	2,267	113	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	112	65-135
Bromofluorobenzene (FID)	107	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	LF10GW03	Diln Fac:	1.000
MSS Lab ID:	187112-016	Batch#:	113891
Matrix:	Water	Sampled:	05/25/06
Units:	ug/L	Received:	05/26/06

Type: MS Analyzed: 05/28/06
Lab ID: QC341839

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	19.33	2,000	2,111	105	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	130	65-135
Bromofluorobenzene (FID)	103	65-135

Type: MSD Analyzed: 05/29/06
Lab ID: QC341840

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,053	102	65-135	3	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	126	65-135
Bromofluorobenzene (FID)	99	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187112 GCVOA Water: EPA 8015B

Inst : GC05
Calnum : 315421005001
Units : ng

Name : stoddard 1pt
Date : 19-OCT-2005 09:49
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	292_003	315421005003	stodd	19-OCT-2005 09:49	S736 (1000X), S1421 (5000X)

Analyte	Ch	L1	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Stoddard Solvent C7-C12	G	1843.8	AVRG		5.42E-4		1843.8	0	0.995	20	

19

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187112 GCVOA Water: EPA 8021B

Inst : GC05
Calnum : 316186669001
Units : ng

Name : MBTXE
Date : 09-MAY-2006 16:13
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	129_003	316186669003	btxe 1	09-MAY-2006 16:13	S2850 (1000X), S3248 (5000X)
L2	129_004	316186669004	mtbe 1	09-MAY-2006 16:46	S2849 (1250X), S3248 (5000X)
L3	129_005	316186669005	btxe 2	09-MAY-2006 17:18	S2849 (500X), S3248 (5000X)
L4	129_006	316186669006	btxe 3	09-MAY-2006 17:50	S2849 (125X), S3248 (5000X)
L5	129_007	316186669007	btxe 4	09-MAY-2006 18:22	S2848 (1000X), S3248 (5000X)
L6	129_008	316186669008	btxe 5	09-MAY-2006 18:54	S2848 (500X), S3248 (5000X)
L7	129_009	316186669009	btxe 6	09-MAY-2006 19:26	S2848 (250X), S3248 (5000X)
L8	129_010	316186669010	mtbe 7	09-MAY-2006 19:58	S2847 (500X), S3248 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
MTBE	H		674.00	750.00	649.81	577.26	550.89	553.71	552.89	AVRG		0.00162		615.51	13	0.995	20	
Benzene	H	1588.0		1480.5	1436.7	1487.1	1449.9	1427.2		AVRG		6.76E-4		1478.2	4	0.995	20	
Toluene	H	1518.0		1373.6	1401.2	1380.5	1328.1	1304.9		AVRG		7.22E-4		1384.4	5	0.995	20	
Ethylbenzene	H	1325.0		1226.3	1225.9	1221.7	1180.2	1160.8		AVRG		8.17E-4		1223.3	5	0.995	20	
m,p-Xylenes	H	1787.0		1689.5	1652.4	1640.3	1545.4	1497.1		AVRG		6.12E-4		1635.3	6	0.995	20	
o-Xylene	H	1240.0		1212.4	1244.9	1226.5	1161.1	1130.8		AVRG		8.32E-4		1202.6	4	0.995	20	
MTBE	I		33.500	43.080	41.450	45.719	47.111	50.549	54.038	AVRG		0.02219		45.064	15	0.995	20	
Benzene	I	121.60		109.20	109.17	132.36	136.60	139.77		AVRG		0.00801		124.78	11	0.995	20	
Toluene	I	132.00		101.72	99.470	121.30	124.80	127.83		AVRG		0.00849		117.85	12	0.995	20	
Ethylbenzene	I	76.584		92.935	92.425	110.69	112.97	116.85		AVRG		0.00996		100.41	16	0.995	20	
m,p-Xylenes	I	113.20		120.32	124.45	144.08	146.40	151.20		AVRG		0.00750		133.27	12	0.995	20	
o-Xylene	I	125.40		100.75	90.170	108.88	111.00	115.70		AVRG		0.00920		108.65	11	0.995	20	

20

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

316186669001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187112 GCVOA Water: EPA 8015B / EPA 8021B

Inst : GC05
Calnum : 316186669002
Units : ng

Name : TFT/BFB
Date : 10-MAY-2006 11:15
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	129_015	316186669015	tft/bfb 1	10-MAY-2006 11:15	S3289 (5000X)
L2	129_016	316186669016	tft/bfb 2	10-MAY-2006 12:11	S3290 (5000X)
L3	129_017	316186669017	tft/bfb 3	10-MAY-2006 13:12	S3291 (5000X)
L4	129_018	316186669018	tft/bfb 4	10-MAY-2006 13:45	S3292 (5000X)
L5	129_019	316186669019	tft/bfb 5	10-MAY-2006 14:45	S3293 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	G	1190.1	1148.7	1073.7	1108.4	1076.2	AVRG		8.93E-4		1119.4	4	0.995	20	
Bromofluorobenzene (FID)	G	675.74	683.93	657.19	699.14	688.87	AVRG		0.00147		680.98	2	0.995	20	
Trifluorotoluene (PID)	H	423.80	417.58	405.42	426.43	415.41	AVRG		0.00239		417.73	2	0.995	20	
Bromofluorobenzene (PID)	H	776.27	805.56	789.36	864.10	858.49	AVRG		0.00122		818.75	5	0.995	20	
Trifluorotoluene (PID)	I	28.500	28.564	27.569	30.179	30.811	AVRG		0.03434		29.125	5	0.995	20	
Bromofluorobenzene (PID)	I	57.427	59.706	61.411	68.350	69.319	AVRG		0.01581		63.243	8	0.995	20	

21

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

316186669002

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187112 GCVOA Water: EPA 8015B

Inst : GC05
Calnum : 316199245001
Units : ng

Name : GAS
Date : 18-MAY-2006 16:47
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	138_006	316199245006	tvh 1	18-MAY-2006 16:47	S3460 (1000X), S3248 (5000X)
L2	138_007	316199245007	tvh 2	18-MAY-2006 17:19	S3459 (1000X), S3248 (5000X)
L3	138_008	316199245008	tvh 3	18-MAY-2006 17:51	S3458 (1000X), S3248 (5000X)
L4	138_009	316199245009	tvh 4	18-MAY-2006 18:23	S3457 (2000X), S3248 (5000X)
L5	138_010	316199245010	tvh 5	18-MAY-2006 18:55	S3457 (1000X), S3248 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	G	1168.4	1143.2	1104.8	1017.7	1031.8	AVRG		9.15E-4		1093.2	6	0.995	20	

22

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

316199245001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 187112 GCVOA Water
EPA 8021B

Inst : GC05 Name : MBTXE
Calnum : 316186669001 Cal Date: 09-MAY-2006

ICV 316186669013 (129_013 09-MAY-2006) stds: S3079 (1000X), S3248 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
MTBE	H	615.51	520.25	100.0	84.52	ng	-15	15	
Benzene	H	1478.2	1547.7	100.0	104.7	ng	5	15	
Toluene	H	1384.4	1514.6	100.0	109.4	ng	9	15	
Ethylbenzene	H	1223.3	1240.1	100.0	101.4	ng	1	15	
m,p-Xylenes	H	1635.3	1587.3	200.0	194.1	ng	-3	15	
o-Xylene	H	1202.6	1291.7	100.0	107.4	ng	7	15	
MTBE	I	45.064	39.100	100.0	86.77	ng	-13	15	
Benzene	I	124.78	129.01	100.0	103.4	ng	3	15	
Toluene	I	117.85	116.89	100.0	99.18	ng	-1	15	
Ethylbenzene	I	100.41	101.48	100.0	101.1	ng	1	15	
m,p-Xylenes	I	133.27	126.27	200.0	189.5	ng	-5	15	
o-Xylene	I	108.65	95.241	100.0	87.66	ng	-12	15	

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 187112 GCVOA Water
EPA 8015B

Inst : GC05
Calnum : 316199245001

Name : GAS
Cal Date: 18-MAY-2006

ICV 316199245014 (138_014 18-MAY-2006) stds: S3323 (1000X), S3248 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	G	1093.2	1144.6	10000	10470	ng	5	

CURTIS & TOMPKINS SPIKE USER REPORT FOR 187112 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC05 Run Name: QC341834 IDF : 1.0
Seqnum : 316213946002.1 File : 148_002 Time : 28-MAY-2006 14:18
Standards: S3406 (1000X), S3248 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
MTBE	H	316186669001	09-MAY-2006	572.50	100.0	93	ng	-7	15	
MTBE	I	316186669001	09-MAY-2006	44.855	100.0	100	ng	0	15	
Benzene	H	316186669001	09-MAY-2006	1549.5	100.0	100	ng	5	15	
Benzene	I	316186669001	09-MAY-2006	129.50	100.0	100	ng	4	15	
Toluene	H	316186669001	09-MAY-2006	1495.6	100.0	110	ng	8	15	
Toluene	I	316186669001	09-MAY-2006	116.01	100.0	98	ng	-2	15	
Ethylbenzene	H	316186669001	09-MAY-2006	1258.7	100.0	100	ng	3	15	
Ethylbenzene	I	316186669001	09-MAY-2006	101.14	100.0	100	ng	1	15	
m,p-Xylenes	H	316186669001	09-MAY-2006	1623.9	100.0	99	ng	-1	15	
m,p-Xylenes	I	316186669001	09-MAY-2006	119.83	100.0	90	ng	-10	15	
o-Xylene	H	316186669001	09-MAY-2006	1310.8	100.0	110	ng	9	15	
o-Xylene	I	316186669001	09-MAY-2006	99.005	100.0	91	ng	-9	15	
Trifluorotoluene (FID)	G	316186669002	10-MAY-2006	1069.3	450.0	430	ng	-4	15	
Bromofluorobenzene (FID)	G	316186669002	10-MAY-2006	677.19	450.0	450	ng	-1	15	
Trifluorotoluene (PID)	H	316186669002	10-MAY-2006	420.69	450.0	450	ng	1	15	
Trifluorotoluene (PID)	I	316186669002	10-MAY-2006	30.849	450.0	480	ng	6	15	
Bromofluorobenzene (PID)	H	316186669002	10-MAY-2006	855.16	450.0	470	ng	4	15	
Bromofluorobenzene (PID)	I	316186669002	10-MAY-2006	74.118	450.0	530	ng	**17**	15	c+ Pass

+=high bias c=CCV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 187112 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC05 Run Name: QC341835 IDF : 1.0
Seqnum : 316213946003.1 File : 148_003 Time : 28-MAY-2006 14:50
Standards: S3282 (1000X), S3248 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	G	316199245001	18-MAY-2006	1239.3	10000	11000	ng	13	15	
Trifluorotoluene (FID)	G	316186669002	10-MAY-2006	1255.2	450.0	500	ng	12	15	
Bromofluorobenzene (FID)	G	316186669002	10-MAY-2006	728.58	450.0	480	ng	7	15	
Trifluorotoluene (PID)	H	316186669002	10-MAY-2006	516.34	450.0	560	ng	**24**	15	c+ NA
Trifluorotoluene (PID)	I	316186669002	10-MAY-2006	39.337	450.0	610	ng	**35**	15	c+
Bromofluorobenzene (PID)	H	316186669002	10-MAY-2006	822.64	450.0	450	ng	0	15	
Bromofluorobenzene (PID)	I	316186669002	10-MAY-2006	75.283	450.0	540	ng	**19**	15	c+

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187112 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC05 Run Name: stodd IDF : 1.0
Seqnum : 316213946004 File : 148_004 Time : 28-MAY-2006 15:22
Standards: S2169 (1000X), S3248 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Stoddard Solvent C7-C12	G	315421005001	19-OCT-2005	2098.5	10000	11380	ng	14	15	
Trifluorotoluene (FID)	G	316186669002	10-MAY-2006	1041.3	450.0	418.6	ng	-7	15	
Bromofluorobenzene (FID)	G	316186669002	10-MAY-2006	1154.7	450.0	763.1	ng	**70**	15	c+ Ft cutout
Trifluorotoluene (PID)	H	316186669002	10-MAY-2006	404.36	450.0	435.6	ng	-3	15	
Bromofluorobenzene (PID)	H	316186669002	10-MAY-2006	1005.1	450.0	552.4	ng	**23**	15	c+ MA
Trifluorotoluene (PID)	I	316186669002	10-MAY-2006	31.647	450.0	489.0	ng	9	15	
Bromofluorobenzene (PID)	I	316186669002	10-MAY-2006	118.93	450.0	846.2	ng	**88**	15	c+

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187112 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC05 Run Name: mbtxe IDF : 1.0
Seqnum : 316213946013 File : 148_013 Time : 28-MAY-2006 20:57
Standards: S3406 (666.7X), S3248 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Trifluorotoluene (FID)	G	316186669002	10-MAY-2006	1079.9	450.0	434.1	ng	-4	15	
Bromofluorobenzene (FID)	G	316186669002	10-MAY-2006	706.58	450.0	466.9	ng	4	15	
MTBE	H	316186669001	09-MAY-2006	591.40	150.0	144.1	ng	-4	15	
Benzene	H	316186669001	09-MAY-2006	1607.6	150.0	163.1	ng	9	15	
Toluene	H	316186669001	09-MAY-2006	1516.9	150.0	164.4	ng	10	15	
Ethylbenzene	H	316186669001	09-MAY-2006	1309.0	150.0	160.5	ng	7	15	
m,p-Xylenes	H	316186669001	09-MAY-2006	1593.0	150.0	146.1	ng	-3	15	
o-Xylene	H	316186669001	09-MAY-2006	1318.7	150.0	164.5	ng	10	15	
Trifluorotoluene (PID)	H	316186669002	10-MAY-2006	432.56	450.0	466.0	ng	4	15	
Bromofluorobenzene (PID)	H	316186669002	10-MAY-2006	883.01	450.0	485.3	ng	8	15	
MTBE	I	316186669001	09-MAY-2006	46.296	150.0	154.1	ng	3	15	
Benzene	I	316186669001	09-MAY-2006	141.67	150.0	170.3	ng	14	15	
Toluene	I	316186669001	09-MAY-2006	123.99	150.0	157.8	ng	5	15	
Ethylbenzene	I	316186669001	09-MAY-2006	113.98	150.0	170.3	ng	14	15	
m,p-Xylenes	I	316186669001	09-MAY-2006	133.72	150.0	150.5	ng	0	15	
o-Xylene	I	316186669001	09-MAY-2006	111.76	150.0	154.3	ng	3	15	
Trifluorotoluene (PID)	I	316186669002	10-MAY-2006	33.072	450.0	511.0	ng	14	15	
Bromofluorobenzene (PID)	I	316186669002	10-MAY-2006	77.500	450.0	551.4	ng	**23**	15	c+

E1 cont
quantok

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187112 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC05 Run Name: tvh IDF : 1.0
Seqnum : 316213946015 File : 148_015 Time : 28-MAY-2006 22:01
Standards: S3282 (666.7X), S3248 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	G	316199245001	18-MAY-2006	1217.0	15000	16700	ng	11	15	
Trifluorotoluene (FID)	G	316186669002	10-MAY-2006	1240.3	450.0	498.6	ng	11	15	
Bromofluorobenzene (FID)	G	316186669002	10-MAY-2006	739.60	450.0	488.7	ng	9	15	
Trifluorotoluene (PID)	H	316186669002	10-MAY-2006	560.01	450.0	603.3	ng	**34**	15	c+
Bromofluorobenzene (PID)	H	316186669002	10-MAY-2006	803.85	450.0	441.8	ng	-2	15	
Trifluorotoluene (PID)	I	316186669002	10-MAY-2006	41.251	450.0	637.4	ng	**42**	15	c+
Bromofluorobenzene (PID)	I	316186669002	10-MAY-2006	78.468	450.0	558.3	ng	**24**	15	c+

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187112 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC05 Run Name: tvh IDF : 1.0
Seqnum : 316213946016 File : 148_016 Time : 28-MAY-2006 22:33
Standards: S3282 (666.7X), S3248 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	G	316199245001	18-MAY-2006	1222.7	15000	16780	ng	12	15	
Trifluorotoluene (FID)	G	316186669002	10-MAY-2006	1316.3	450.0	529.1	ng	**18**	15	c+ PASS
Bromofluorobenzene (FID)	G	316186669002	10-MAY-2006	747.28	450.0	493.8	ng	10	15	
Trifluorotoluene (PID)	H	316186669002	10-MAY-2006	573.72	450.0	618.0	ng	**37**	15	c+ N/A
Bromofluorobenzene (PID)	H	316186669002	10-MAY-2006	809.77	450.0	445.1	ng	-1	15	
Trifluorotoluene (PID)	I	316186669002	10-MAY-2006	42.327	450.0	654.0	ng	**45**	15	c+
Bromofluorobenzene (PID)	I	316186669002	10-MAY-2006	78.568	450.0	559.0	ng	**24**	15	c+

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187112 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC05 Run Name: stodd IDF : 1.0
Seqnum : 316213946017 File : 148_017 Time : 28-MAY-2006 23:05
Standards: S2169 (1000X), S3248 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Stoddard Solvent C7-C12	G	315421005001	19-OCT-2005	1967.8	10000	10670	ng	7	15	
Trifluorotoluene (FID)	G	316186669002	10-MAY-2006	1028.7	450.0	413.5	ng	-8	15	
Bromofluorobenzene (FID)	G	316186669002	10-MAY-2006	1101.7	450.0	728.0	ng	**62**	15	c+ ↑ calcut.
Trifluorotoluene (PID)	H	316186669002	10-MAY-2006	366.69	450.0	395.0	ng	-12	15	
Bromofluorobenzene (PID)	H	316186669002	10-MAY-2006	991.35	450.0	544.9	ng	**21**	15	c+ N/A
Trifluorotoluene (PID)	I	316186669002	10-MAY-2006	31.875	450.0	492.5	ng	9	15	
Bromofluorobenzene (PID)	I	316186669002	10-MAY-2006	116.32	450.0	827.7	ng	**84**	15	c+

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187112 GCVOA Water
EPA 8015B / EPA 8021B

Inst : GC05 Run Name: tvh IDF : 1.0
Seqnum : 316213946026 File : 148_026 Time : 29-MAY-2006 03:53
Standards: S3282 (2000X), S3248 (5000X)

Analyte	Ch	Cal	Caldate	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C7-C12	G	316199245001	18-MAY-2006	1223.1	5000	5594	ng	12	15	
Trifluorotoluene (FID)	G	316186669002	10-MAY-2006	1289.6	450.0	518.4	ng	15	15	
Bromofluorobenzene (FID)	G	316186669002	10-MAY-2006	701.89	450.0	463.8	ng	3	15	
Trifluorotoluene (PID)	H	316186669002	10-MAY-2006	458.61	450.0	494.0	ng	10	15	
Bromofluorobenzene (PID)	H	316186669002	10-MAY-2006	826.16	450.0	454.1	ng	1	15	
Trifluorotoluene (PID)	I	316186669002	10-MAY-2006	30.736	450.0	474.9	ng	6	15	
Bromofluorobenzene (PID)	I	316186669002	10-MAY-2006	76.379	450.0	543.5	ng	**21**	15	c+ N/A

+=high bias c=CCV

PROJECT GC 05 SEQUENCE LOG BOOK

Notebook No. BK-2266

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316213946 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 28-MAY-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv13

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	148_001	X	ib			28-MAY-2006 13:46	1.0					1	
002	148_002	CCV/LCS	QC341834	113891	Water	28-MAY-2006 14:18	1.0		5000			2 1 PASS/USE	
003	148_003	CCV/LCS	QC341835	113891	Water	28-MAY-2006 14:50	1.0		5000			3 1	
004	148_004	CCV	stodd	113891		28-MAY-2006 15:22	1.0		5000			4 1	
005	148_005	BLANK	QC341833	113891	Water	28-MAY-2006 15:54	1.0	2	5000			1 < 1/2 RL	
006	148_006	SAMPLE	187112-001	113891	Water	28-MAY-2006 17:12	1.0		5000	A	1.3	1	
007	148_007	SAMPLE	187112-002	113891	Water	28-MAY-2006 17:44	1.0		5000			1	
008	148_008	SAMPLE	187112-013	113891	Water	28-MAY-2006 18:17	1.0		5000		1.0	1	
009	148_009	SAMPLE	187112-014	113891	Water	28-MAY-2006 18:49	1.0		5000		1.3	1	
010	148_010	SAMPLE	187112-015	113891	Water	28-MAY-2006 19:21	1.0		5000			1	
011	148_011	MSS	187112-016	113891	Water	28-MAY-2006 19:53	1.0	2	5000			1	
012	148_012	MS	QC341839	113891	Water	28-MAY-2006 20:25	1.0		5000			3 1 PASS/USE	
013	148_013	CCV	mbtxe	113891		28-MAY-2006 20:57	1.0		5000			2 1	
014	148_014	CCV	mbtxe	113891		28-MAY-2006 21:29	1.0		5000			2 1	
015	148_015	CCV	tvh	113891		28-MAY-2006 22:01	1.0		5000			3 1	
016	148_016	CCV	tvh	113891		28-MAY-2006 22:33	1.0		5000			3 1	
017	148_017	CCV	stodd	113891		28-MAY-2006 23:05	1.0		5000			4 1	
018	148_018	CCV	stodd	113891		28-MAY-2006 23:37	1.0		5000			4 1	
019	148_019	MSD	QC341840	113891	Water	29-MAY-2006 00:09	1.0		5000	A	1.3	3 1	
020	148_020	SAMPLE	187109-001	113891	Water	29-MAY-2006 00:41	1.0		5000			1	
021	148_021	SAMPLE	187109-002	113891	Water	29-MAY-2006 01:13	1.0		5000			1	
022	148_022	SAMPLE	187109-003	113891	Water	29-MAY-2006 01:45	1.0		5000			1	
023	148_023	SAMPLE	187109-004	113891	Water	29-MAY-2006 02:17	1.0		5000			1	
024	148_024	SAMPLE	187109-005	113891	Water	29-MAY-2006 02:49	1.0		5000			1	
025	148_025	X	tvh	113891		29-MAY-2006 03:21	1.0	1	5000			3 1 NOT USED	
026	148_026	CCV	tvh	113891		29-MAY-2006 03:53	1.0		5000			3 1 PASS/USE	

Stds used: 1=S3248 2=S3406 3=S3282 4=S2169

Analyst: TJP Date: 5/30/06

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Dulcie J. Perry 5/30/06

Signed: Dulcie J. Perry Date: 5/30/06

Read and Understood By

Signed: Date: 05/31/06

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Notebook No. BK2051

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 315421005 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 19-OCT-2005
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	*IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	292_001	CCV/LCS	QC313524	106875	Water	19-OCT-2005 08:45	1.0			5000			1 2 pass	
002	292_002	CCV/LCS	QC313525	106875	Water	19-OCT-2005 09:17	1.0		1	5000			3 2	
003	292_003	CCV	stodd	106875		19-OCT-2005 09:49	1.0			5000			4 2	
004	292_004	BLANK	QC313523	106875	Water	19-OCT-2005 10:20	1.0	5		5000			2 1/2 DL	
005	292_005	SAMPLE	182533-001	106875	Water	19-OCT-2005 10:52	1.0			5000	A	1.0	2	
006	292_006	SAMPLE	182533-002	106875	Water	19-OCT-2005 11:24	1.0			5000			2	
007	292_007	SAMPLE	182533-003	106875	Water	19-OCT-2005 11:56	1.0			5000			2	
008	292_008	SAMPLE	182533-004	106875	Water	19-OCT-2005 12:28	1.0			5000			2	
009	292_009	SAMPLE	182533-005	106875	Water	19-OCT-2005 12:59	1.0			5000			2	
010	292_010	SAMPLE	182578-001	106875	Water	19-OCT-2005 13:32	1.0			5000			2	
011	292_011	SAMPLE	182578-002	106875	Water	19-OCT-2005 14:04	1.0			5000			2	
012	292_012	CCV	mbtxe	106875		19-OCT-2005 14:35	1.0			5000			1 2 pass	
013	292_013	CCV	stodd	106875		19-OCT-2005 15:08	1.0			5000			4 2	
014	292_014	CCV	tvh	106875		19-OCT-2005 15:39	1.0			5000			3 2	
015	292_015	SAMPLE	182586-001	106875	Water	19-OCT-2005 16:12	1.0			5000	A	1.0	2	
016	292_016	MSS	182586-002	106875	Water	19-OCT-2005 16:44	1.0	2		5000			2	
017	292_017	SAMPLE	182588-002	106875	Water	19-OCT-2005 17:16	1.0			5000			2	
018	292_018	SAMPLE	182590-012	106875	Water	19-OCT-2005 17:47	1.0			5000			2	
019	292_019	SAMPLE	182590-013	106875	Water	19-OCT-2005 18:19	1.0			5000			2	
020	292_020	MS	QC313667	106875	Water	19-OCT-2005 19:13	1.0			5000			3 2 pass	
021	292_021	MSD	QC313668	106875	Water	19-OCT-2005 19:45	1.0		1	5000			3 2	
022	292_022	CCV	tvh	106875		19-OCT-2005 20:16	1.0			5000			3 2	
023	292_023	CCV	tvh	106875		19-OCT-2005 20:48	1.0			5000			3 2	

Stds used: 1=S1763 2=S1421 3=S1762 4=S736

Analyst: [signature] Date: 10/20/05

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PROJECT GC05 Sequence Log Book

Notebook No. BK 2246
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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316199245 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 18-MAY-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv13

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC SPK uL	VL	pH	Stds Used	>LR
001	138_001	X	ib			18-MAY-2006 08:45	1.0				1	
002	138_002	X	QC340572	113573	Water	18-MAY-2006 09:17	1.0				2 1 Not used	
003	138_003	X	QC340573	113573	Water	18-MAY-2006 09:49	1.0				3 1	
004	138_004	X	QC340571	113573	Water	18-MAY-2006 10:21	1.0				1	
005	138_005	X	ib			18-MAY-2006 16:15	1.0				1	
006	138_006	ICAL	tvh 1			18-MAY-2006 16:47	1.0				4 1 PASS/USE	
007	138_007	ICAL	tvh 2			18-MAY-2006 17:19	1.0				5 1	
008	138_008	ICAL	tvh 3			18-MAY-2006 17:51	1.0				6 1	
009	138_009	ICAL	tvh 4			18-MAY-2006 18:23	1.0				7 1	
010	138_010	ICAL	tvh 5			18-MAY-2006 18:55	1.0				7 1	
011	138_011	X	ib			18-MAY-2006 19:27	1.0				1	
012	138_012	X	carbmark			18-MAY-2006 19:58	1.0				8 9 1 USE	
013	138_013	X	ib			18-MAY-2006 20:30	1.0				1	
014	138_014	ICV	tvh			18-MAY-2006 21:02	1.0	5000			3 1 PASS/USE	

Stds used: 1=S3248 2=S3406 3=S3323 4=S3460 5=S3459 6=S3458 7=S3457 8=S1645 9=S1646

Analyst: [signature] Date: 05/22/06

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[signature] 05/22/06

Signed [signature] Date 05/22/06

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PROJECT GC 05 SEQUENCE LOG BOOK

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316186669 Instrument: GC05
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #5 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv13

Begun: 09-MAY-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	129_001	X	ib			09-MAY-2006 15:09	1.0					1	
002	129_002	X	ib			09-MAY-2006 15:41	1.0					1	
003	129_003	ICAL	btxe 1			09-MAY-2006 16:13	1.0					2 1	PASS/USE
004	129_004	ICAL	mtbe 1			09-MAY-2006 16:46	1.0					3 1	
005	129_005	ICAL	btxe 2			09-MAY-2006 17:18	1.0					3 1	
006	129_006	ICAL	btxe 3			09-MAY-2006 17:50	1.0					3 1	
007	129_007	ICAL	btxe 4			09-MAY-2006 18:22	1.0					4 1	
008	129_008	ICAL	btxe 5			09-MAY-2006 18:54	1.0					4 1	
009	129_009	ICAL	btxe 6			09-MAY-2006 19:26	1.0					4 1	
010	129_010	ICAL	mtbe 7			09-MAY-2006 19:58	1.0					5 1	
011	129_011	X	ib			09-MAY-2006 20:30	1.0					1	
012	129_012	ICV	mbtxe			09-MAY-2006 21:02	1.0	1	5000			6 1	NOT USED
013	129_013	ICV	mbtxe			09-MAY-2006 21:34	1.0		5000			6 1	PASS/USE
014	129_014	X	ib			10-MAY-2006 10:43	1.0					1	
015	129_015	ICAL	tft/bfb 1			10-MAY-2006 11:15	1.0					7	PASS/USE
016	129_016	ICAL	tft/bfb 2			10-MAY-2006 12:11	1.0					8	
017	129_017	ICAL	tft/bfb 3			10-MAY-2006 13:12	1.0					9	
018	129_018	ICAL	tft/bfb 4			10-MAY-2006 13:45	1.0					10	
019	129_019	ICAL	tft/bfb 5			10-MAY-2006 14:45	1.0					11	

Stds used: 1=S3248 2=S2850 3=S2849 4=S2848 5=S2847 6=S3079 7=S3289 8=S3290 9=S3291 10=S3292 11=S3293

Analyst: TJP Date: 5/11/06

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Dulcie D. Perry 5/11/06

Signed Dulcie D. Perry 5/11/06 Date

Read and Understood By 36 Signed 05/11/06 Date

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REPORTING SUMMARY FOR 187112 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
187112-001	Gasoline C7-C12	GC05	G	05/28/06 17:12
187112-001	MTBE	GC05	H	05/28/06 17:12
187112-001	Benzene	GC05	H	05/28/06 17:12
187112-001	Toluene	GC05	H	05/28/06 17:12
187112-001	Ethylbenzene	GC05	H	05/28/06 17:12
187112-001	Trifluorotoluene (FID)	GC05	G	05/28/06 17:12
187112-001	Bromofluorobenzene (FID)	GC05	G	05/28/06 17:12
187112-001	Trifluorotoluene (PID)	GC05	H	05/28/06 17:12
187112-001	Bromofluorobenzene (PID)	GC05	H	05/28/06 17:12
187112-001	Xylene (total)	GC05	H	05/28/06 17:12
187112-002	Gasoline C7-C12	GC05	G	05/28/06 17:44
187112-002	MTBE	GC05	H	05/28/06 17:44
187112-002	Benzene	GC05	H	05/28/06 17:44
187112-002	Toluene	GC05	H	05/28/06 17:44
187112-002	Ethylbenzene	GC05	H	05/28/06 17:44
187112-002	Trifluorotoluene (FID)	GC05	G	05/28/06 17:44
187112-002	Bromofluorobenzene (FID)	GC05	G	05/28/06 17:44
187112-002	Trifluorotoluene (PID)	GC05	H	05/28/06 17:44
187112-002	Bromofluorobenzene (PID)	GC05	H	05/28/06 17:44
187112-002	Xylene (total)	GC05	H	05/28/06 17:44
187112-013	Gasoline C7-C12	GC05	G	05/28/06 18:17
187112-013	Stoddard Solvent C7-C12	GC05	G	05/28/06 18:17
187112-013	Trifluorotoluene (FID)	GC05	G	05/28/06 18:17
187112-013	Bromofluorobenzene (FID)	GC05	G	05/28/06 18:17
187112-014	Gasoline C7-C12	GC05	G	05/28/06 18:49
187112-014	Stoddard Solvent C7-C12	GC05	G	05/28/06 18:49
187112-014	Trifluorotoluene (FID)	GC05	G	05/28/06 18:49
187112-014	Bromofluorobenzene (FID)	GC05	G	05/28/06 18:49
187112-015	Gasoline C7-C12	GC05	G	05/28/06 19:21
187112-015	Trifluorotoluene (FID)	GC05	G	05/28/06 19:21
187112-015	Bromofluorobenzene (FID)	GC05	G	05/28/06 19:21
187112-016	Gasoline C7-C12	GC05	G	05/28/06 19:53
187112-016	Trifluorotoluene (FID)	GC05	G	05/28/06 19:53
187112-016	Bromofluorobenzene (FID)	GC05	G	05/28/06 19:53
QC341833	Gasoline C7-C12	GC05	G	05/28/06 15:54
QC341833	Stoddard Solvent C7-C12	GC05	G	05/28/06 15:54
QC341833	MTBE	GC05	H	05/28/06 15:54
QC341833	Benzene	GC05	H	05/28/06 15:54
QC341833	Toluene	GC05	H	05/28/06 15:54
QC341833	Ethylbenzene	GC05	H	05/28/06 15:54
QC341833	Trifluorotoluene (FID)	GC05	G	05/28/06 15:54
QC341833	Bromofluorobenzene (FID)	GC05	G	05/28/06 15:54
QC341833	Trifluorotoluene (PID)	GC05	H	05/28/06 15:54
QC341833	Bromofluorobenzene (PID)	GC05	H	05/28/06 15:54
QC341833	Xylene (total)	GC05	H	05/28/06 15:54
QC341834	MTBE	GC05	H	05/28/06 14:18
QC341834	Benzene	GC05	H	05/28/06 14:18

REPORTING SUMMARY FOR 187112 GCVOA Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC341834	Toluene	GC05	H	05/28/06 14:18
QC341834	Ethylbenzene	GC05	H	05/28/06 14:18
QC341834	Trifluorotoluene (PID)	GC05	H	05/28/06 14:18
QC341834	Bromofluorobenzene (PID)	GC05	H	05/28/06 14:18
QC341835	Gasoline C7-C12	GC05	G	05/28/06 14:50
QC341835	Trifluorotoluene (FID)	GC05	G	05/28/06 14:50
QC341835	Bromofluorobenzene (FID)	GC05	G	05/28/06 14:50
QC341839	Gasoline C7-C12	GC05	G	05/28/06 20:25
QC341839	Trifluorotoluene (FID)	GC05	G	05/28/06 20:25
QC341839	Bromofluorobenzene (FID)	GC05	G	05/28/06 20:25
QC341840	Gasoline C7-C12	GC05	G	05/29/06 00:09
QC341840	Trifluorotoluene (FID)	GC05	G	05/29/06 00:09
QC341840	Bromofluorobenzene (FID)	GC05	G	05/29/06 00:09

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 113891
Date Started: 28-MAY-2006
Batched by : Thelma Perez

Analysis : N/A
Bgroup : TVH
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
187109-001			Acton Mickelson En	Water	TVH	08-JUN-2006
187109-002			Acton Mickelson En	Water	TVH	08-JUN-2006
187109-003			Acton Mickelson En	Water	TVH	08-JUN-2006
187109-004			Acton Mickelson En	Water	TVH	08-JUN-2006
187109-005			Acton Mickelson En	Water	TVH	08-JUN-2006
187112-001			Treadwell & Rollo	Water	MBTXE, TVH	08-JUN-2006
187112-002			Treadwell & Rollo	Water	MBTXE, TVH	08-JUN-2006
187112-013			Treadwell & Rollo	Water	TVH	08-JUN-2006
187112-014			Treadwell & Rollo	Water	TVH	08-JUN-2006
187112-015			Treadwell & Rollo	Water	TVH	08-JUN-2006
187112-016			Treadwell & Rollo	Water	TVH	08-JUN-2006
QC341833	BLANK			Water		
QC341834	LCS			Water		
QC341835	LCS			Water		
QC341839	MS	of 187112-016		Water		
QC341840	MSD	of 187112-016		Water		

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water
As of 07/05/06

Analyte	Units	GC04 A	GC04 J	GC05 G	GC07 A	GC19 X
Gasoline C6-C10	ug/L	6.7	6.2	4.8	10	21
Gasoline C6-C12	ug/L	5.5	6.8	4.5	14	21
Gasoline C7-C12	ug/L	4.8	7.2	4.2	15	27
JP-4 C7-C12	ug/L		12	9.9	19	4.6
Gasoline C6-C8	ug/L				7.0	
Gasoline C8-C10	ug/L				12	
Trifluorotoluene (FID)	ug/L	3.9			9.8	
Bromofluorobenzene (FID)	ug/L	5.2			7.5	

Curtis & Tompkins Laboratories
MDL Summary for EPA 8021B Water
As of 07/05/06

Analyte	Units	GC04 B	GC04 C	GC04 K	GC04 L	GC05 H	GC05 I	GC07 B	GC07 C	GC19 Y	GC19 Z
MTBE	ug/L	0.48	0.26	0.45	0.83	0.30	0.62	0.35	0.23	0.49	0.18
Benzene	ug/L	0.15	0.032	0.094	0.16	0.034	0.057	0.23	0.035	0.073	0.033
Toluene	ug/L	0.11	0.098	0.14	0.11	0.048	0.15	0.069	0.024	0.13	0.025
Ethylbenzene	ug/L	0.087	0.061	0.038	0.12	0.036	0.17	0.084	0.056	0.14	0.024
m,p-Xylenes	ug/L	0.15	0.11	0.10	0.21	0.030	0.17	0.090	0.027	0.13	0.039
o-Xylene	ug/L	0.19	0.10	0.12	0.10	0.083	0.19	0.13	0.040	0.15	0.015

Curtis & Tompkins, Ltd.

TOTAL EXTRACTABLE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	05/25/06
Units:	ug/L	Received:	05/26/06
Diln Fac:	1.000	Prepared:	06/06/06
Batch#:	114176		

Field ID:	514AGW101	Analyzed:	06/08/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	187112-001		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	104	65-135

Field ID:	1065MW9B	Analyzed:	06/08/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	187112-002		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	96	65-135

Field ID:	DW052506A	Analyzed:	06/09/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	187112-013		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	105	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	05/25/06
Units:	ug/L	Received:	05/26/06
Diln Fac:	1.000	Prepared:	06/06/06
Batch#:	114176		

Field ID:	LF10GW01	Analyzed:	06/09/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	187112-015		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	112	65-135

Field ID:	LF10GW03	Analyzed:	06/09/06
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	187112-016		

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	104	65-135

Type:	BLANK	Analyzed:	06/08/06
Lab ID:	QC342998	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	93	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	114176
Units:	ug/L	Prepared:	06/06/06
Diln Fac:	1.000	Analyzed:	06/08/06

Type: BS Cleanup Method: EPA 3630C
Lab ID: QC342999

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	2,500	2,183	87	65-135

Surrogate	%REC	Limits
Hexacosane	95	65-135

Type: BSD Cleanup Method: EPA 3630C
Lab ID: QC343000

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,223	89	65-135	2	35

Surrogate	%REC	Limits
Hexacosane	96	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187112 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 116196127001
Units : mg/L

Name : gc11dlscal5/17/06
Date : 16-MAY-2006 18:31
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	136a011	116196127011	dsl_10	16-MAY-2006 18:31	S3433
L2	136a012	116196127012	dsl_100	16-MAY-2006 18:59	S3434
L3	136a013	116196127013	dsl_250	16-MAY-2006 19:26	S3435
L4	136a014	116196127014	dsl_500	16-MAY-2006 19:54	S3436
L5	136a015	116196127015	dsl_1000	16-MAY-2006 20:22	S3437
L6	136a016	116196127016	dsl_2500	16-MAY-2006 20:50	S3438
L7	136a017	116196127017	dsl_5000	16-MAY-2006 21:17	S3432

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	84938	63195	60889	59402	60415	59580	59197	AVRG		1.56E-5		63945	15	0.995	20	

46

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 187112 GCSV Water
EPA 8015B

Inst : GC11A
Calnum : 116196127001

Name : gc11dlscal5/17/06
Cal Date: 16-MAY-2006

ICV 116196127019 (136a019 16-MAY-2006) stds: S2708

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	63945	56486	500.0	441.7	mg/L	-12	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187112 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 116207810001
Units : mg/L

Name : MO_6-pts
Date : 24-MAY-2006 16:05
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	144a014	116207810014	mo_50	24-MAY-2006 16:05	S3326
L2	144a015	116207810015	mo_250	24-MAY-2006 16:33	S3327
L3	144a016	116207810016	mo_500	24-MAY-2006 17:01	S3328
L4	144a017	116207810017	mo_1000	24-MAY-2006 17:29	S3329
L5	144a018	116207810018	mo_2500	24-MAY-2006 17:56	S3330
L6	144a019	116207810019	mo_5000	24-MAY-2006 18:25	S3325

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	36526	37244	37973	38389	40292	39863	AVRG		2.61E-5		38381	4	0.995	20	

48

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187112 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 116206579001
Units : mg/L

Name : hexacosane
Date : 23-MAY-2006 19:42
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	143a011	116206579011	hex_5	23-MAY-2006 19:42	S2694
L2	143a012	116206579012	hex_10	23-MAY-2006 20:09	S2695
L3	143a013	116206579013	hex_25	23-MAY-2006 20:37	S2696
L4	143a014	116206579014	hex_50	23-MAY-2006 21:05	S2697
L5	143a015	116206579015	hex_75	23-MAY-2006 21:33	S2698

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	64179	70269	66074	63186	64146	AVRG		1.53E-5		65571	4	0.995	20	

49

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187112 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166117087001
Units : mg/L

Date : 22-MAR-2006 12:39
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	081b006	166117087006	dsl_10	22-MAR-2006 12:39	S2961
L2	081b007	166117087007	dsl_100	22-MAR-2006 13:07	S2938
L3	081b008	166117087008	dsl_250	22-MAR-2006 13:34	S2939
L4	081b009	166117087009	dsl_500	22-MAR-2006 14:02	S2940
L5	081b010	166117087010	dsl_1000	22-MAR-2006 14:30	S2941
L6	081b011	166117087011	dsl_2500	22-MAR-2006 14:57	S2942
L7	081b012	166117087012	dsl_5000	22-MAR-2006 15:25	S2936

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	60107	59785	55253	54313	53973	54874	53381	AVRG		1.79E-5		55955	5	0.995	20	

50

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

166117087001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 187112 GCSV Water
EPA 8015B

Inst : GC15B
Calnum : 166117087001 Cal Date: 22-MAR-2006

ICV 166117087014 (081b014 22-MAR-2006) stds: S2708

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	55955	53766	500.0	480.4	mg/L	-4	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187112 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166219336001
Units : mg/L

Name : motor oil
Date : 01-JUN-2006 17:48
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	152b010	166219336010	mo_50	01-JUN-2006 17:48	S3326
L2	152b011	166219336011	mo_250	01-JUN-2006 18:15	S3327
L3	152b012	166219336012	mo_500	01-JUN-2006 18:43	S3328
L4	152b013	166219336013	mo_1000	01-JUN-2006 19:10	S3329
L5	152b014	166219336014	mo_2500	01-JUN-2006 19:38	S3330
L6	152b015	166219336015	mo_5000	01-JUN-2006 20:05	S3325

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	36587	41619	41827	41070	34092	29342	AVRG		2.67E-5		37423	13	0.995	20	

52

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

166219336001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187112 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166158996002
Units : mg/L

Name : gc15hexcal4/21/06
Date : 20-APR-2006 16:22
X Axis : R

Reviewer: CW

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	110b013	166158996013	hex_5	20-APR-2006 16:22	S2694
L2	110b014	166158996014	hex_10	20-APR-2006 16:50	S2695
L3	110b015	166158996015	hex_25	20-APR-2006 17:19	S2696
L4	110b016	166158996016	hex_50	20-APR-2006 17:47	S2697
L5	110b017	166158996017	hex_75	20-APR-2006 18:15	S2698

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	73445	71655	70423	70811	69635	AVRG		1.40E-5		71194	2	0.995	20	

53

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CONTINUING CALIBRATION SUMMARY FOR 187112 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116226958064	07-JUN-2006 22:00	116196127001	16-MAY-2006	63945	60143	1000.0	940.54	mg/L	-6	15	
GC11A	A	116226958080	08-JUN-2006 05:28	116196127001	16-MAY-2006	63945	62404	250.00	243.98	mg/L	-2	15	
GC11A	A	116230044003	08-JUN-2006 19:00	116196127001	16-MAY-2006	63945	60938	500.00	476.49	mg/L	-5	15	
GC11A	A	116230044016	09-JUN-2006 02:37	116196127001	16-MAY-2006	63945	60839	1000.0	951.43	mg/L	-5	15	
GC15B	B	166226541104	08-JUN-2006 07:57	166117087001	22-MAR-2006	55955	53611	1000.0	958.11	mg/L	-4	15	
GC15B	B	166226541118	08-JUN-2006 15:02	166117087001	22-MAR-2006	55955	55392	250.00	247.48	mg/L	-1	15	

CONTINUING CALIBRATION SUMMARY FOR 187112 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116230044004	08-JUN-2006 19:27	116207810001	24-MAY-2006	38381	37889	500.00	493.59	mg/L	-1	15	
GC11A	A	116230044017	09-JUN-2006 03:04	116207810001	24-MAY-2006	38381	38564	500.00	502.39	mg/L	0	15	
GC15B	B	166226541105	08-JUN-2006 08:25	166219336001	01-JUN-2006	37423	38132	500.00	509.47	mg/L	2	15	
GC15B	B	166226541119	08-JUN-2006 15:30	166219336001	01-JUN-2006	37423	39344	500.00	525.66	mg/L	5	15	

CONTINUING CALIBRATION SUMMARY FOR 187112 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116226958064	07-JUN-2006 22:00	116206579001	23-MAY-2006	65571	66934	50.000	51.040	mg/L	2	15	
GC11A	A	116226958080	08-JUN-2006 05:28	116206579001	23-MAY-2006	65571	68463	50.000	52.205	mg/L	4	15	
GC11A	A	116230044003	08-JUN-2006 19:00	116206579001	23-MAY-2006	65571	68730	50.000	52.409	mg/L	5	15	
GC11A	A	116230044016	09-JUN-2006 02:37	116206579001	23-MAY-2006	65571	67985	50.000	51.841	mg/L	4	15	
GC15B	B	166226541104	08-JUN-2006 07:57	166158996002	20-APR-2006	71194	67769	50.000	47.595	mg/L	-5	15	
GC15B	B	166226541118	08-JUN-2006 15:02	166158996002	20-APR-2006	71194	70280	50.000	49.358	mg/L	-1	15	

SEQUENCE SUMMARY FOR 187112 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166117087 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	081b001	X	primer			22-MAR-2006 07:27	1.0					
002	081b002	X	ib			22-MAR-2006 07:55	1.0					
003	081b003	CCV	dsl_500			22-MAR-2006 08:27	1.0	1.0	6	3	1	
004	081b004	CCV	mo_500			22-MAR-2006 08:55	1.0	1.0	2	3	2	
005	081b005	X	ib			22-MAR-2006 12:12	1.0					
006	081b006	ICAL	dsl_10			22-MAR-2006 12:39	1.0	1.0			3	
007	081b007	ICAL	dsl_100			22-MAR-2006 13:07	1.0	1.0			4	
008	081b008	ICAL	dsl_250			22-MAR-2006 13:34	1.0	1.0			5	
009	081b009	ICAL	dsl_500			22-MAR-2006 14:02	1.0	1.0			6	
010	081b010	ICAL	dsl_1000			22-MAR-2006 14:30	1.0	1.0			7	
011	081b011	ICAL	dsl_2500			22-MAR-2006 14:57	1.0	1.0			8	
012	081b012	ICAL	dsl_5000			22-MAR-2006 15:25	1.0	1.0			9	
013	081b013	X	ib			22-MAR-2006 15:53	1.0					
014	081b014	ICV	dsl_500			22-MAR-2006 16:21	1.0	1.0		3	10	
015	081b015	X	ib			22-MAR-2006 16:49	1.0					57
016	081b016	CCV	dsl_500			22-MAR-2006 17:17	1.0	1.0		3	1	
017	081b017	CCV	mo_500			22-MAR-2006 17:45	1.0	1.0	2	3	2	
018	081b018	CCV	ker_250			22-MAR-2006 18:43	1.0	1.0		3	11	
019	081b019	LCS	QC332247 S	111483	Soil	22-MAR-2006 19:18	1.0	0.09921		3		
020	081b020	BLANK	QC332246 S	111483	Soil	22-MAR-2006 19:45	1.0	0.1007	7	3		
021	081b021	MSS	185620-003 S	111483	Soil	22-MAR-2006 20:13	1.0	0.1001	9	3		
022	081b022	MS	QC332248 S	111483	Soil	22-MAR-2006 20:41	1.0	0.1006		3		
023	081b023	MSD	QC332249 S	111483	Soil	22-MAR-2006 21:09	1.0	0.1004		3		
024	081b024	X	ib			22-MAR-2006 21:37	1.0					
025	081b025	SAMPLE	185463-003 S	111513	Water	22-MAR-2006 22:05	1.0	0.005		3		
026	081b026	SAMPLE	185463-004 S	111513	Water	22-MAR-2006 22:33	1.0	0.005		3		
027	081b027	SAMPLE	185639-002	111483	Soil	22-MAR-2006 23:01	1.0	0.1002		3		
028	081b028	SAMPLE	185640-001	111483	Soil	22-MAR-2006 23:29	3.0	0.09974	3	3	19:BUNKC:=35667.6	
029	081b029	SAMPLE	185640-002	111483	Soil	22-MAR-2006 23:57	20.0	0.2001	2	3	12:BUNKC:=30917.1	
030	081b030	X	ib			23-MAR-2006 00:24	1.0					
031	081b031	CCV	dsl_1000			23-MAR-2006 00:52	1.0	1.0		3	12	

Stds used: 1=S2871 2=S2971 3=S2961 4=S2938 5=S2939 6=S2940 7=S2941 8=S2942 9=S2936 10=S2708 11=S2806 12=S2885

SEQUENCE SUMMARY FOR 187112 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166117087 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	081b032	CCV	mo_500			23-MAR-2006 01:20	1.0	1.0	2		3	2	
033	081b033	X	ccv			23-MAR-2006 01:48	1.0					12	
034	081b034	CCV	ker_250			23-MAR-2006 02:16	1.0	1.0			3	11	

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Stds used: 1=S2871 2=S2971 3=S2961 4=S2938 5=S2939 6=S2940 7=S2941 8=S2942 9=S2936 10=S2708 11=S2806 12=S2885

SEQUENCE SUMMARY FOR 187112 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166158996 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 20-APR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	110b001	X	primer			20-APR-2006 09:56	1.0							
002	110b002	X	ib			20-APR-2006 10:24	1.0							
003	110b003	CCV	dsl_500			20-APR-2006 10:53	1.0			3			1	
004	110b004	CCV	mo_500			20-APR-2006 11:21	1.0	2		3			2	
005	110b005	X	ib			20-APR-2006 11:55	1.0							
006	110b006	ICAL	mo_50			20-APR-2006 13:06	1.0						3	
007	110b007	ICAL	mo_250			20-APR-2006 13:34	1.0						4	
008	110b008	ICAL	mo_500			20-APR-2006 14:02	1.0						5	
009	110b009	ICAL	mo_1000			20-APR-2006 14:30	1.0						6	
010	110b010	ICAL	mo_2500			20-APR-2006 14:58	1.0						7	
011	110b011	ICAL	mo_5000			20-APR-2006 15:26	1.0						8	
012	110b012	X	ib			20-APR-2006 15:54	1.0							
013	110b013	ICAL	hex_5			20-APR-2006 16:22	1.0						9	
014	110b014	ICAL	hex_10			20-APR-2006 16:50	1.0						10	
015	110b015	ICAL	hex_25			20-APR-2006 17:19	1.0						11	59
016	110b016	ICAL	hex_50			20-APR-2006 17:47	1.0						12	
017	110b017	ICAL	hex_75			20-APR-2006 18:15	1.0						13	
018	110b018	X	ib			20-APR-2006 18:43	1.0							
019	110b019	CCV	dsl_500			20-APR-2006 19:11	1.0						1	
020	110b020	CCV	mo_500			20-APR-2006 19:39	1.0						2	

Stds used: 1=S3131 2=S3188 3=S2118 4=S2119 5=S2120 6=S2121 7=S2122 8=S2117 9=S2694 10=S2695 11=S2696 12=S2697 13=S2698

SEQUENCE SUMMARY FOR 187112 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116196127 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 16-MAY-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
001	136a001	X	primer			16-MAY-2006 04:47	1.0				
002	136a002	X	ib			16-MAY-2006 05:15	1.0				
003	136a003	CCV	mo_500			16-MAY-2006 05:43	1.0	1.0	3	1	
004	136a004	CCV	dsl_500			16-MAY-2006 06:10	1.0	1.0	3	2	
005	136a005	X	ccv			16-MAY-2006 06:38	1.0			2	
006	136a006	SAMPLE	186575-003 S	113251	Soil	16-MAY-2006 11:14	1.0	0.1007	3		
007	136a007	SAMPLE	186711-005	113445	Water	16-MAY-2006 11:42	1.0	0.005	3		
008	136a008	CCV	mo_500			16-MAY-2006 12:10	1.0	1.0	3	1	
009	136a009	CCV	dsl_1000			16-MAY-2006 12:38	1.0	1.0	3	3	
010	136a010	X	ib			16-MAY-2006 18:03	1.0				
011	136a011	ICAL	dsl_10			16-MAY-2006 18:31	1.0	1.0		4	
012	136a012	ICAL	dsl_100			16-MAY-2006 18:59	1.0	1.0		5	
013	136a013	ICAL	dsl_250			16-MAY-2006 19:26	1.0	1.0		6	
014	136a014	ICAL	dsl_500			16-MAY-2006 19:54	1.0	1.0		7	
015	136a015	ICAL	dsl_1000			16-MAY-2006 20:22	1.0	1.0		8	60
016	136a016	ICAL	dsl_2500			16-MAY-2006 20:50	1.0	1.0		9	
017	136a017	ICAL	dsl_5000			16-MAY-2006 21:17	1.0	1.0		10	
018	136a018	X	ib			16-MAY-2006 21:45	1.0				
019	136a019	ICV	dsl_500			16-MAY-2006 22:13	1.0	1.0	3	11	
020	136a020	X	ib			16-MAY-2006 22:41	1.0				
021	136a021	ICAL	jp5_10			16-MAY-2006 23:09	1.0	1.0		12	
022	136a022	ICAL	jp5_100			16-MAY-2006 23:37	1.0	1.0		13	
023	136a023	ICAL	jp5_500			17-MAY-2006 00:05	1.0	1.0		14	
024	136a024	ICAL	jp5_1500			17-MAY-2006 00:33	1.0	1.0		15	
025	136a025	ICAL	jp5_3000			17-MAY-2006 01:01	1.0	1.0		16	
026	136a026	X	jp5_5000			17-MAY-2006 01:29	1.0			17	
027	136a027	X	ib			17-MAY-2006 01:57	1.0				
028	136a028	X	ib			17-MAY-2006 02:25	1.0				
029	136a029	ICAL	jp8_10			17-MAY-2006 02:53	1.0	1.0		18	
030	136a030	ICAL	jp8_100			17-MAY-2006 03:20	1.0	1.0		19	

Stds used: 1=S3404 2=S3367 3=S3368 4=S3433 5=S3434 6=S3435 7=S3436 8=S3437 9=S3438 10=S3432 11=S2708 12=S2382 13=S2383 14=S2384 15=S2385 16=S2386 17=S2259 18=S3462 19=S3463 20=S3464 21=S3465 22=S3466 23=S3461

SEQUENCE SUMMARY FOR 187112 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116196127 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 16-MAY-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
031	136a031	ICAL	jp8_500			17-MAY-2006 03:48	1.0	1.0		20	
032	136a032	ICAL	jp8_1500			17-MAY-2006 04:17	1.0	1.0		21	
033	136a033	ICAL	jp8_3000			17-MAY-2006 04:45	1.0	1.0		22	
034	136a034	X	jp8_5000			17-MAY-2006 05:13	1.0			23	
035	136a035	X	ib			17-MAY-2006 05:40	1.0				

Stds used: 1=S3404 2=S3367 3=S3368 4=S3433 5=S3434 6=S3435 7=S3436 8=S3437 9=S3438 10=S3432 11=S2708 12=S2382 13=S2383 14=S2384 15=S2385 16=S2386 17=S2259 18=S3462 19=S3463 20=S3464 21=S3465 22=S3466 23=S3461

SEQUENCE SUMMARY FOR 187112 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116206579 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 23-MAY-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	143a001	X	primer			23-MAY-2006 10:59	1.0						
002	143a002	X	ib			23-MAY-2006 11:34	1.0						
003	143a003	X	ib			23-MAY-2006 12:45	1.0						
004	143a004	X	ib			23-MAY-2006 13:21	1.0						
005	143a005	X	ib			23-MAY-2006 13:49	1.0						
006	143a006	X	ib			23-MAY-2006 14:17	1.0						
007	143a007	CCV	mo_500			23-MAY-2006 14:45	1.0		3			1	
008	143a008	CCV	dsl_500			23-MAY-2006 15:13	1.0		3			2	
009	143a009	X	ib			23-MAY-2006 18:46	1.0						
010	143a010	X	ib			23-MAY-2006 19:14	1.0						
011	143a011	ICAL	hex_5			23-MAY-2006 19:42	1.0					3	
012	143a012	ICAL	hex_10			23-MAY-2006 20:09	1.0					4	
013	143a013	ICAL	hex_25			23-MAY-2006 20:37	1.0					5	
014	143a014	ICAL	hex_50			23-MAY-2006 21:05	1.0					6	
015	143a015	ICAL	hex_75			23-MAY-2006 21:33	1.0					7	62
016	143a016	X	ib			23-MAY-2006 22:01	1.0						

Stds used: 1=S3404 2=S3367 3=S2694 4=S2695 5=S2696 6=S2697 7=S2698

SEQUENCE SUMMARY FOR 187112 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116207810 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 24-MAY-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	144a001	X	primer			24-MAY-2006 07:30	1.0						
002	144a002	X	ib			24-MAY-2006 08:33	1.0						
003	144a003	CCV	mo_500			24-MAY-2006 09:01	1.0	1.0	3		3	1	
004	144a004	CCV	dsl_500			24-MAY-2006 09:29	1.0	1.0			3	2	
005	144a005	X	c10			24-MAY-2006 10:23	20.0						
006	144a006	X	c12-c60			24-MAY-2006 10:51	1.0						
007	144a007	XCCV	dsl_250			24-MAY-2006 11:42	1.0	1.0			3	3	
008	144a008	CCV	mo_500			24-MAY-2006 12:10	1.0	1.0	2		3	1	
009	144a009	CCV	dsl_500			24-MAY-2006 12:58	1.0	1.0			3	2	
010	144a010	SAMPLE	186881-002 S	113605	Soil	24-MAY-2006 13:26	1.0	0.1000			3		
011	144a011	CCV	mo_500			24-MAY-2006 14:06	1.0	1.0	1		3	1	
012	144a012	CCV	dsl_1000			24-MAY-2006 14:33	1.0	1.0			3	4	
013	144a013	X	ib			24-MAY-2006 15:37	1.0						
014	144a014	ICAL	mo_50			24-MAY-2006 16:05	1.0	1.0				5	
015	144a015	ICAL	mo_250			24-MAY-2006 16:33	1.0	1.0				6	63
016	144a016	ICAL	mo_500			24-MAY-2006 17:01	1.0	1.0				7	
017	144a017	ICAL	mo_1000			24-MAY-2006 17:29	1.0	1.0				8	
018	144a018	ICAL	mo_2500			24-MAY-2006 17:56	1.0	1.0				9	
019	144a019	ICAL	mo_5000			24-MAY-2006 18:25	1.0	1.0				10	
020	144a020	X	ib			24-MAY-2006 18:52	1.0						
021	144a021	CCV	dsl_500			24-MAY-2006 19:20	1.0	1.0			3	2	
022	144a022	CCV	mo_500			24-MAY-2006 19:48	1.0	1.0			3	1	
023	144a023	CCV	ker_250			24-MAY-2006 20:16	1.0	1.0			3	11	
024	144a024	CCV	hyfl_1250			24-MAY-2006 20:44	1.0	1.0			3	12	
025	144a025	BLANK	QC341186 S	113728	Soil	24-MAY-2006 21:46	1.0	0.1003	6		3		
026	144a026	LCS	QC341187 S	113728	Soil	24-MAY-2006 22:14	1.0	0.1002			3		
027	144a027	MSS	186961-001	113728	Soil	24-MAY-2006 22:42	1.0	0.1001	6		3		
028	144a028	MS	QC341188	113728	Soil	24-MAY-2006 23:10	1.0	0.1001		1	3		
029	144a029	MSD	QC341189	113728	Soil	24-MAY-2006 23:38	1.0	0.1003		1	3		
030	144a030	X	ib			25-MAY-2006 00:06	1.0						
031	144a031	BLANK	QC341022 S	113681	Water	25-MAY-2006 00:34	1.0	0.005	6		3		

Stds used: 1=S3404 2=S3367 3=S3366 4=S3368 5=S3326 6=S3327 7=S3328 8=S3329 9=S3330 10=S3325 11=S3508 12=S2429

SEQUENCE SUMMARY FOR 187112 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116207810 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 24-MAY-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	144a032	LCS	QC341023 S	113681	Water	25-MAY-2006 01:02	1.0	0.005			3		
033	144a033	MSS	186908-003	113681	Water	25-MAY-2006 01:30	1.0	0.005	6		3		
034	144a034	MS	QC341024	113681	Water	25-MAY-2006 01:58	1.0	0.005			3		
035	144a035	MSD	QC341025	113681	Water	25-MAY-2006 02:26	1.0	0.005			3		
036	144a036	CCV	dsl_1000			25-MAY-2006 02:54	1.0	1.0			3	4	
037	144a037	CCV	mo_500			25-MAY-2006 03:22	1.0	1.0			3	1	
038	144a038	CCV	ker_250			25-MAY-2006 03:50	1.0	1.0			3	11	
039	144a039	CCV	hyfl_1250			25-MAY-2006 04:18	1.0	1.0			3	12	
040	144a040	X	ccv			25-MAY-2006 04:46	1.0					4	
041	144a041	SAMPLE	186935-001	113728	Soil	25-MAY-2006 05:14	1.0	0.1001			3		
042	144a042	SAMPLE	186935-002	113728	Soil	25-MAY-2006 05:42	1.0	0.1003			3		
043	144a043	SAMPLE	186902-001	113681	Water	25-MAY-2006 06:10	5.0	0.005			3		
044	144a044	SAMPLE	186902-002	113681	Water	25-MAY-2006 06:38	5.0	0.005	1	1	3	3:BUNKC:=5270.47	
045	144a045	X	ib			25-MAY-2006 07:06	1.0						
046	144a046	CCV	mo_500			25-MAY-2006 08:36	1.0	1.0			3	1	64
047	144a047	CCV	dsl_250			25-MAY-2006 09:03	1.0	1.0			3	3	
048	144a048	CCV	ker_250			25-MAY-2006 09:31	1.0	1.0			3	11	
049	144a049	CCV	hyfl_1250			25-MAY-2006 09:59	1.0	1.0			3	12	
050	144a050	SAMPLE	187028-005	113771	Soil	25-MAY-2006 10:58	2.0	0.09956			3	4:BUNKC:=8908.76	
051	144a051	SAMPLE	186902-002	113681	Water	25-MAY-2006 11:26	10.0	0.005			3		
052	144a052	CCV	mo_500			25-MAY-2006 12:04	1.0	1.0			3	1	
053	144a053	CCV	dsl_500			25-MAY-2006 12:32	1.0	1.0			3	2	
054	144a054	CCV	ker_250			25-MAY-2006 13:00	1.0	1.0			3	11	

Stds used: 1=S3404 2=S3367 3=S3366 4=S3368 5=S3326 6=S3327 7=S3328 8=S3329 9=S3330 10=S3325 11=S3508 12=S2429

SEQUENCE SUMMARY FOR 187112 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166219336 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 01-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	152b001	X	primer			01-JUN-2006 07:36	1.0						
002	152b002	X	ib			01-JUN-2006 08:03	1.0						
003	152b003	CCV	dsl_500			01-JUN-2006 08:31	1.0		3			1	
004	152b004	CCV	mo_500			01-JUN-2006 08:59	1.0		3			2	
006	152b006	X	ib			01-JUN-2006 14:06	1.0						
007	152b007	ICAL	mo_50			01-JUN-2006 14:33	1.0					3	
008	152b008	X	ib			01-JUN-2006 16:52	1.0						
009	152b009	X	ib			01-JUN-2006 17:20	1.0						
010	152b010	ICAL	mo_50			01-JUN-2006 17:48	1.0					3	
011	152b011	ICAL	mo_250			01-JUN-2006 18:15	1.0					4	
012	152b012	ICAL	mo_500			01-JUN-2006 18:43	1.0					5	
013	152b013	ICAL	mo_1000			01-JUN-2006 19:10	1.0					6	
014	152b014	ICAL	mo_2500			01-JUN-2006 19:38	1.0					7	
015	152b015	ICAL	mo_5000			01-JUN-2006 20:05	1.0					8	
016	152b016	X	ib			01-JUN-2006 20:33	1.0						

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Stds used: 1=S3367 2=S3404 3=S3326 4=S3327 5=S3328 6=S3329 7=S3330 8=S3325

SEQUENCE SUMMARY FOR 187112 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116226958 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 06-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	157a001	X	PRIMER			06-JUN-2006 14:38	1.0						
002	157a002	X	IB			06-JUN-2006 15:06	1.0						
003	157a003	CCV	DSL_500			06-JUN-2006 15:34	1.0	1.0			3	1	
004	157a004	CCV	MO_500			06-JUN-2006 16:02	1.0	1.0			3	2	
005	157a005	BLANK	QC342790	114126	Soil	06-JUN-2006 17:05	1.0	0.09917	8		3		
006	157a006	LCS	QC342791	114126	Soil	06-JUN-2006 17:33	1.0	0.09962			3		
007	157a007	MSS	187151-002	114126	Soil	06-JUN-2006 18:01	3.0	0.1002	8		3		
008	157a008	MS	QC342792	114126	Soil	06-JUN-2006 18:29	3.0	0.1007		2	3		
009	157a009	MSD	QC342793	114126	Soil	06-JUN-2006 18:57	3.0	0.1006		2	3		
010	157a010	X	IB			06-JUN-2006 19:25	1.0						
011	157a011	SAMPLE	187151-001	114126	Soil	06-JUN-2006 19:52	2.0	0.1001		1	3		
012	157a012	SAMPLE	187151-003	114126	Soil	06-JUN-2006 20:21	2.0	0.1002			3		
013	157a013	SAMPLE	187151-004	114126	Soil	06-JUN-2006 20:48	3.0	0.1001			3		
014	157a014	X	IB			06-JUN-2006 21:16	1.0						
015	157a015	SAMPLE	187151-005	114126	Soil	06-JUN-2006 21:44	3.0	0.1004			3		66
016	157a016	SAMPLE	187151-006	114126	Soil	06-JUN-2006 22:12	3.0	0.1008			3		
017	157a017	X	IB			06-JUN-2006 22:40	1.0						
018	157a018	CCV	DSL_1000			06-JUN-2006 23:08	1.0	1.0			3	3	
019	157a019	CCV	MO_500			06-JUN-2006 23:36	1.0	1.0			3	2	
020	157a020	X	CCV			07-JUN-2006 00:04	1.0					3	
021	157a021	X	CCV			07-JUN-2006 00:32	1.0					2	
022	157a022	SAMPLE	187151-007	114126	Soil	07-JUN-2006 01:00	3.0	0.1005			3		
023	157a023	SAMPLE	187151-008	114126	Soil	07-JUN-2006 01:28	3.0	0.1002			3		
024	157a024	SAMPLE	187151-009	114126	Soil	07-JUN-2006 01:56	5.0	0.1001			3		
025	157a025	SAMPLE	187151-010	114126	Soil	07-JUN-2006 02:24	5.0	0.1005			3		
026	157a026	SAMPLE	187151-011	114126	Soil	07-JUN-2006 02:51	3.0	0.1002			3		
027	157a027	X	IB			07-JUN-2006 03:19	1.0						
028	157a028	SAMPLE	187151-012	114126	Soil	07-JUN-2006 03:47	2.0	0.1000			3		
029	157a029	SAMPLE	187151-013	114126	Soil	07-JUN-2006 04:15	5.0	0.1006			3		
030	157a030	SAMPLE	187151-014	114126	Soil	07-JUN-2006 04:43	3.0	0.1001			3		
031	157a031	SAMPLE	187151-015	114126	Soil	07-JUN-2006 05:11	5.0	0.1002			3		

Stds used: 1=S3367 2=S3639 3=S3368 4=S3366 5=S3623

SEQUENCE SUMMARY FOR 187112 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116226958 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 06-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	157a032	SAMPLE	187151-016	114126	Soil	07-JUN-2006 05:39	3.0	0.1003			3		
033	157a033	X	IB			07-JUN-2006 06:07	1.0						
034	157a034	CCV	DSL_250			07-JUN-2006 06:35	1.0	1.0			3	4	
035	157a035	CCV	MO_500			07-JUN-2006 07:03	1.0	1.0			3	2	
036	157a036	X	CCV			07-JUN-2006 07:31	1.0					4	
037	157a037	X	CCV			07-JUN-2006 07:59	1.0					2	
038	157a038	SAMPLE	187151-017	114126	Soil	07-JUN-2006 08:27	3.0	0.1005			3		
039	157a039	SAMPLE	187151-018	114126	Soil	07-JUN-2006 08:54	5.0	0.1001			3		
040	157a040	SAMPLE	187151-019	114126	Soil	07-JUN-2006 09:22	5.0	0.1007			3		
041	157a041	SAMPLE	187151-020	114126	Soil	07-JUN-2006 09:50	5.0	0.1005			3		
042	157a042	X	IB			07-JUN-2006 10:19	1.0						
043	157a043	SAMPLE	187151-001	114126	Soil	07-JUN-2006 10:46	2.0	0.1001		1	3		
044	157a044	SAMPLE	187151-022	114155	Soil	07-JUN-2006 12:31	1.0	0.1004			3		
045	157a045	SAMPLE	187151-024	114155	Soil	07-JUN-2006 12:59	1.0	0.1001			3		
046	157a046	X	IB			07-JUN-2006 13:27	1.0						67
047	157a047	SAMPLE	187151-021	114155	Soil	07-JUN-2006 13:55	1.0	0.1006			3		
048	157a048	SAMPLE	187151-023	114155	Soil	07-JUN-2006 14:23	2.0	0.1004			3		
049	157a049	X	IB			07-JUN-2006 14:51	1.0						
050	157a050	SAMPLE	187236-001	114123	Water	07-JUN-2006 15:19	1.0	0.005			3		
051	157a051	CCV	DSL_500			07-JUN-2006 15:47	1.0	1.0			3	5	
052	157a052	CCV	MO_500			07-JUN-2006 16:15	1.0	1.0			3	2	
053	157a053	BLANK	QC342781 S	114123	Water	07-JUN-2006 16:53	1.0	0.005	8		3		
054	157a054	BS	QC342782 S	114123	Water	07-JUN-2006 17:21	1.0	0.005			3		
055	157a055	BSD	QC342783 S	114123	Water	07-JUN-2006 17:49	1.0	0.005			3		
056	157a056	SAMPLE	187169-001 S	114123	Water	07-JUN-2006 18:17	1.0	0.005			3		
057	157a057	SAMPLE	187065-001 S	114123	Water	07-JUN-2006 18:44	1.0	0.005			3		
058	157a058	SAMPLE	187065-002 S	114123	Water	07-JUN-2006 19:12	1.0	0.005			3		
059	157a059	SAMPLE	187065-003 S	114123	Water	07-JUN-2006 19:40	1.0	0.005			3		
060	157a060	SAMPLE	187065-004 S	114123	Water	07-JUN-2006 20:08	1.0	0.005			3		
061	157a061	SAMPLE	187065-005 S	114123	Water	07-JUN-2006 20:36	1.0	0.005			3		
062	157a062	SAMPLE	187065-006 S	114123	Water	07-JUN-2006 21:04	1.0	0.005			3		

Stds used: 1=S3367 2=S3639 3=S3368 4=S3366 5=S3623

SEQUENCE SUMMARY FOR 187112 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116226958 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 06-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
063	157a063	X	IB			07-JUN-2006 21:32	1.0						
064	157a064	CCV	DSL_1000			07-JUN-2006 22:00	1.0	1.0			3	3	
065	157a065	CCV	MO_500			07-JUN-2006 22:28	1.0	1.0			3	2	
066	157a066	X	CCV			07-JUN-2006 22:56	1.0					3	
067	157a067	X	CCV			07-JUN-2006 23:24	1.0					2	
068	157a068	BLANK	QC342998 S	114176	Water	07-JUN-2006 23:52	1.0	0.005			3		
069	157a069	BS	QC342999 S	114176	Water	08-JUN-2006 00:20	1.0	0.005			3		
070	157a070	BSD	QC343000 S	114176	Water	08-JUN-2006 00:48	1.0	0.005			3		
071	157a071	SAMPLE	187263-001	114176	Water	08-JUN-2006 01:16	1.0	0.005			3		
072	157a072	SAMPLE	187263-002	114176	Water	08-JUN-2006 01:44	1.0	0.005		1	3		
073	157a073	SAMPLE	187263-003	114176	Water	08-JUN-2006 02:12	1.0	0.005		1	3		
074	157a074	X	IB			08-JUN-2006 02:40	1.0						
075	157a075	SAMPLE	187246-011	114207	Soil	08-JUN-2006 03:08	1.0	0.1001			3		
076	157a076	SAMPLE	187246-010	114207	Soil	08-JUN-2006 03:36	1.0	0.09952			3		
077	157a077	SAMPLE	187212-003	114207	Soil	08-JUN-2006 04:04	1.0	0.1001			3		89
078	157a078	SAMPLE	187151-001	114207	Soil	08-JUN-2006 04:32	5.0	0.1001			3		
079	157a079	X	IB			08-JUN-2006 05:00	1.0						
080	157a080	CCV	DSL_250			08-JUN-2006 05:28	1.0	1.0			3	4	
081	157a081	CCV	MO_500			08-JUN-2006 05:56	1.0	1.0			3	2	
082	157a082	X	CCV			08-JUN-2006 06:24	1.0					4	
083	157a083	X	CCV			08-JUN-2006 06:52	1.0					2	
084	157a084	SAMPLE	187051-002	114155	Soil	08-JUN-2006 07:20	1.0	0.1001			3		
085	157a085	SAMPLE	187051-003	114155	Soil	08-JUN-2006 07:48	1.0	0.1004			3		
086	157a086	SAMPLE	187051-004	114155	Soil	08-JUN-2006 08:16	10.0	0.1006			3		
087	157a087	X	IB			08-JUN-2006 08:43	1.0						
088	157a088	SAMPLE	187051-005	114155	Soil	08-JUN-2006 09:11	10.0	0.1006			3		
089	157a089	X	IB			08-JUN-2006 09:39	1.0						
090	157a090	LCS	QC343112 S	114207	Soil	08-JUN-2006 11:23	1.0	0.1003			3		
091	157a091	BLANK	QC343111 S	114207	Soil	08-JUN-2006 11:50	1.0	0.1002	8		3		
092	157a092	MSS	187241-015 S	114207	Soil	08-JUN-2006 12:18	20.0	0.09962	8		3		
093	157a093	SAMPLE	187241-010 S	114207	Soil	08-JUN-2006 12:51	20.0	0.1007			3		

Stds used: 1=S3367 2=S3639 3=S3368 4=S3366 5=S3623

SEQUENCE SUMMARY FOR 187112 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116226958 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 06-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
094	157a094	SAMPLE	187241-025 S	114207	Soil	08-JUN-2006 13:19	40.0	0.2004	3		
095	157a095	SAMPLE	187241-045 S	114207	Soil	08-JUN-2006 13:47	40.0	0.09915	3		
096	157a096	X	IB			08-JUN-2006 14:15	1.0				
097	157a097	CCV	DSL_500			08-JUN-2006 14:43	1.0	1.0	3	1	
098	157a098	CCV	MO_500			08-JUN-2006 15:11	1.0	1.0	3	2	
099	157a099	SAMPLE	187263-003	114176	Water	08-JUN-2006 15:39	1.0	0.005	3		
100	157a100	SAMPLE	187263-002	114176	Water	08-JUN-2006 16:07	1.0	0.005	3		
101	157a101	CCV	DSL_500			08-JUN-2006 16:41	1.0	1.0	3	1	
102	157a102	CCV	MO_500			08-JUN-2006 17:09	1.0	1.0	3	2	

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Stds used: 1=S3367 2=S3639 3=S3368 4=S3366 5=S3623

SEQUENCE SUMMARY FOR 187112 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166226541 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 06-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	157b001	X	PRIMER			06-JUN-2006 07:41	1.0					
002	157b002	X	IB			06-JUN-2006 08:08	1.0					
003	157b003	CCV	DSL_500			06-JUN-2006 08:36	1.0	1.0		3	1	
004	157b004	CCV	MO_500			06-JUN-2006 09:03	1.0	1.0		3	2	
005	157b005	CCV	JP5_250			06-JUN-2006 09:31	1.0	1.0		3	3	
006	157b006	CCV	JP8_250			06-JUN-2006 09:58	1.0	1.0		3	4	
007	157b007	BLANK	QC342753	114117	Soil	06-JUN-2006 10:48	1.0	0.1006	6	3		
008	157b008	SAMPLE	187048-001	114117	Soil	06-JUN-2006 11:16	1.0	0.1002		3		
009	157b009	SAMPLE	187048-002	114117	Soil	06-JUN-2006 11:43	1.0	0.1001		3		
010	157b010	SAMPLE	187048-004	114117	Soil	06-JUN-2006 12:11	1.0	0.1004		3		
011	157b011	SAMPLE	187048-006	114117	Soil	06-JUN-2006 12:39	1.0	0.1006		3		
012	157b012	SAMPLE	187048-008	114117	Soil	06-JUN-2006 13:06	1.0	0.1006		3		
013	157b013	SAMPLE	187048-009	114117	Soil	06-JUN-2006 13:34	1.0	0.1000		3		
014	157b014	SAMPLE	187048-007	114117	Soil	06-JUN-2006 14:01	2.0	0.1000		3		
015	157b015	MSS	187048-003	114117	Soil	06-JUN-2006 14:29	2.0	0.1004	6	3		70
016	157b016	SAMPLE	187048-005	114117	Soil	06-JUN-2006 14:56	10.0	0.1006		3		
017	157b017	X	IB			06-JUN-2006 15:24	1.0					
018	157b018	CCV	DSL_1000			06-JUN-2006 15:52	1.0	1.0		3	5	
019	157b019	CCV	MO_500			06-JUN-2006 16:20	1.0	1.0		3	6	
020	157b020	CCV	JP5_250			06-JUN-2006 16:47	1.0	1.0		3	3	
021	157b021	CCV	JP8_250			06-JUN-2006 17:15	1.0	1.0		3	4	
022	157b022	X	QC342633 S	114090	Water	06-JUN-2006 17:54	1.0	0.005	6	3		
023	157b023	SAMPLE	187040-001	114090	Water	06-JUN-2006 18:21	1.0	0.005		3		
024	157b024	SAMPLE	187040-002	114090	Water	06-JUN-2006 18:49	1.0	0.005		3		
025	157b025	SAMPLE	187040-003	114090	Water	06-JUN-2006 19:16	1.0	0.005		3		
026	157b026	SAMPLE	187046-001 S	113987	Water	06-JUN-2006 19:44	1.0	0.005		3		
027	157b027	SAMPLE	187046-002 S	113987	Water	06-JUN-2006 20:11	1.0	0.005		3		
028	157b028	SAMPLE	187046-003 S	113987	Water	06-JUN-2006 20:39	1.0	0.005		3		
029	157b029	SAMPLE	187046-004 S	113987	Water	06-JUN-2006 21:07	1.0	0.005		3		
030	157b030	SAMPLE	187046-005 S	113987	Water	06-JUN-2006 21:35	1.0	0.005		3		
031	157b031	SAMPLE	187046-006 S	113987	Water	06-JUN-2006 22:02	1.0	0.005	2	3		15:BUNKC:=49180.4

Stds used: 1=S3367 2=S3404 3=S3333 4=S3510 5=S3368 6=S3639 7=S3366

SEQUENCE SUMMARY FOR 187112 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166226541 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 06-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	157b032	X	IB			06-JUN-2006 22:29	1.0					
033	157b033	CCV	DSL_250			06-JUN-2006 22:57	1.0	1.0		3	7	
034	157b034	CCV	MO_500			06-JUN-2006 23:24	1.0	1.0		3	6	
035	157b035	CCV	JP5_250			06-JUN-2006 23:52	1.0	1.0		3	3	
036	157b036	CCV	JP8_250			07-JUN-2006 00:20	1.0	1.0		3	4	
037	157b037	X	CCV			07-JUN-2006 00:47	1.0				7	
038	157b038	X	CCV			07-JUN-2006 01:15	1.0				6	
039	157b039	SAMPLE	187077-002	114117	Soil	07-JUN-2006 01:42	3.0	0.1002		3		2:BUNKC:=7279.20
040	157b040	SAMPLE	187077-004	114117	Soil	07-JUN-2006 02:10	2.0	0.1006		3		5:BUNKC:=17526.2
041	157b041	SAMPLE	187077-007	114117	Soil	07-JUN-2006 02:37	5.0	0.1003		3		3:BUNKC:=7880.53
042	157b042	X	IB			07-JUN-2006 03:05	1.0					
043	157b043	SAMPLE	187020-001 S	114090	Water	07-JUN-2006 03:32	1.0	0.005		3		
044	157b044	SAMPLE	187020-002 S	114090	Water	07-JUN-2006 04:00	1.0	0.005		3		
045	157b045	SAMPLE	187020-003 S	114090	Water	07-JUN-2006 04:28	1.0	0.005		3		
046	157b046	SAMPLE	187020-004 S	114090	Water	07-JUN-2006 04:55	1.0	0.005		3		71
047	157b047	SAMPLE	187020-005 S	114090	Water	07-JUN-2006 05:23	1.0	0.005		3		
048	157b048	SAMPLE	187020-006 S	114090	Water	07-JUN-2006 05:50	1.0	0.005		3		
049	157b049	SAMPLE	187020-007 S	114090	Water	07-JUN-2006 06:18	1.0	0.005		3		
050	157b050	X	IB			07-JUN-2006 06:45	1.0					
051	157b051	CCV	DSL_500			07-JUN-2006 07:12	1.0	1.0		3	1	
052	157b052	CCV	MO_500			07-JUN-2006 07:40	1.0	1.0		3	6	
053	157b053	CCV	JP5_250			07-JUN-2006 08:07	1.0	1.0		3	3	
054	157b054	CCV	JP8_250			07-JUN-2006 08:35	1.0	1.0		3	4	
055	157b055	X	CCV			07-JUN-2006 09:02	1.0				1	
056	157b056	X	CCV			07-JUN-2006 09:30	1.0				6	
057	157b057	X	QC342633	114090	Water	07-JUN-2006 09:58	1.0	0.005	6	3		
058	157b058	SAMPLE	187020-015 S	114090	Water	07-JUN-2006 10:25	1.0	0.005		3		
059	157b059	SAMPLE	187020-014 S	114090	Water	07-JUN-2006 10:53	1.0	0.005		3		
060	157b060	SAMPLE	187046-006 S	113987	Water	07-JUN-2006 11:20	10.0	0.005		3		
061	157b061	X	IB			07-JUN-2006 11:47	1.0					
062	157b062	BLANK	QC342633 S	114090	Water	07-JUN-2006 12:15	1.0	0.005	6	3		

Stds used: 1=S3367 2=S3404 3=S3333 4=S3510 5=S3368 6=S3639 7=S3366

SEQUENCE SUMMARY FOR 187112 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166226541 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 06-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
063	157b063	CCV	DSL_1000			07-JUN-2006 13:08	1.0	1.0			3	5	
064	157b064	CCV	MO_500			07-JUN-2006 13:36	1.0	1.0			3	6	
065	157b065	CCV	JP5_250			07-JUN-2006 14:03	1.0	1.0			3	3	
066	157b066	CCV	JP8_250			07-JUN-2006 14:31	1.0	1.0			3	4	
067	157b067	BLANK	QC342777 S	114122	Water	07-JUN-2006 14:58	1.0	0.005	6		3		
068	157b068	SAMPLE	187047-009	114122	Water	07-JUN-2006 15:26	1.0	0.005			3		
069	157b069	SAMPLE	187047-010	114122	Water	07-JUN-2006 15:53	1.0	0.005			3		
070	157b070	SAMPLE	187047-011	114122	Water	07-JUN-2006 16:21	1.0	0.005			3		
071	157b071	SAMPLE	187075-001	114122	Water	07-JUN-2006 16:48	1.0	0.005			3		
072	157b072	SAMPLE	187075-003	114122	Water	07-JUN-2006 17:16	1.0	0.005		1	3		
073	157b073	SAMPLE	187075-004	114122	Water	07-JUN-2006 17:44	1.0	0.005			3		
074	157b074	SAMPLE	187075-005	114122	Water	07-JUN-2006 18:11	1.0	0.005			3		
075	157b075	SAMPLE	187075-006	114122	Water	07-JUN-2006 18:39	1.0	0.005			3		
076	157b076	SAMPLE	187075-008	114122	Water	07-JUN-2006 19:06	1.0	0.005			3		
077	157b077	CCV	DSL_250			07-JUN-2006 19:33	1.0	1.0			3	7	72
078	157b078	CCV	MO_500			07-JUN-2006 20:01	1.0	1.0			3	6	
079	157b079	X	CC			07-JUN-2006 20:28	1.0						
080	157b080	CCV	JP5_250			07-JUN-2006 20:56	1.0	1.0			3	3	
081	157b081	CCV	JP8_250			07-JUN-2006 21:24	1.0	1.0			3	4	
082	157b082	LCS	QC342778 S	114122	Water	07-JUN-2006 21:51	1.0	0.005			3		
083	157b083	MS	QC342779 S	114122	Water	07-JUN-2006 22:19	1.0	0.005			3		
084	157b084	MSD	QC342780 S	114122	Water	07-JUN-2006 22:47	1.0	0.005			3		
085	157b085	MSS	187086-001 S	114122	Water	07-JUN-2006 23:14	1.0	0.005	6		3		
086	157b086	SAMPLE	187086-002 S	114122	Water	07-JUN-2006 23:42	1.0	0.005			3		
087	157b087	SAMPLE	187086-003 S	114122	Water	08-JUN-2006 00:09	1.0	0.005			3		
088	157b088	SAMPLE	187086-004 S	114122	Water	08-JUN-2006 00:36	1.0	0.005			3		
089	157b089	SAMPLE	187086-005 S	114122	Water	08-JUN-2006 01:04	1.0	0.005			3		
090	157b090	SAMPLE	187086-006 S	114122	Water	08-JUN-2006 01:31	1.0	0.005			3		
091	157b091	SAMPLE	187075-003	114122	Water	08-JUN-2006 01:59	1.0	0.005			3		
092	157b092	CCV	DSL_500			08-JUN-2006 02:26	1.0	1.0			3	1	
093	157b093	CCV	MO_500			08-JUN-2006 02:54	1.0	1.0			3	6	

Stds used: 1=S3367 2=S3404 3=S3333 4=S3510 5=S3368 6=S3639 7=S3366

SEQUENCE SUMMARY FOR 187112 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166226541 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 06-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
094	157b094	X	CCV			08-JUN-2006 03:21	1.0					1	
095	157b095	CCV	JP5_250			08-JUN-2006 03:48	1.0	1.0			3	3	
096	157b096	CCV	JP8_250			08-JUN-2006 04:16	1.0	1.0			3	4	
097	157b097	BLANK	QC342777 S	114122	Water	08-JUN-2006 04:44	1.0	0.005	6		3		
098	157b098	X	QC342777	114122	Water	08-JUN-2006 05:12	1.0	0.005	7		3		1:HXCS=279.777
099	157b099	SAMPLE	187086-007	114122	Water	08-JUN-2006 05:40	1.0	0.005			3		
100	157b100	SAMPLE	187086-008 S	114122	Water	08-JUN-2006 06:07	1.0	0.005			3		
101	157b101	SAMPLE	187086-009 S	114122	Water	08-JUN-2006 06:34	1.0	0.005			3		
102	157b102	SAMPLE	187150-001 S	114122	Water	08-JUN-2006 07:02	1.0	0.005			3		
103	157b103	SAMPLE	187150-002 S	114122	Water	08-JUN-2006 07:30	1.0	0.005			3		
104	157b104	CCV	DSL_1000			08-JUN-2006 07:57	1.0	1.0			3	5	
105	157b105	CCV	MO_500			08-JUN-2006 08:25	1.0	1.0			3	6	
106	157b106	CCV	JP5_250			08-JUN-2006 08:52	1.0	1.0			3	3	
107	157b107	CCV	JP8_250			08-JUN-2006 09:20	1.0	1.0			3	4	
108	157b108	X	CCV			08-JUN-2006 09:47	1.0					1	
109	157b109	BLANK	QC342777 S	114122	Water	08-JUN-2006 10:15	1.0	0.005	7		3		1:HXCS=244.620
110	157b110	X	IB			08-JUN-2006 10:50	1.0						
111	157b111	BLANK	QC342998 S	114176	Water	08-JUN-2006 11:17	1.0	0.005			3		
112	157b112	SAMPLE	187241-020 S	114207	Soil	08-JUN-2006 11:45	1.0	0.1001			3		
113	157b113	SAMPLE	187241-050 S	114207	Soil	08-JUN-2006 12:12	20.0	0.09994			3		
114	157b114	SAMPLE	187241-060 S	114207	Soil	08-JUN-2006 12:40	20.0	0.1003			3		
115	157b115	SAMPLE	187241-055 S	114207	Soil	08-JUN-2006 13:08	10.0	0.2003			3		
116	157b116	SAMPLE	187212-002	114207	Soil	08-JUN-2006 14:01	5.0	0.1002		1	3		2:BUNKC:=6706.36
117	157b117	MSS	187051-001	114155	Soil	08-JUN-2006 14:29	1.0	0.1003	6		3		
118	157b118	CCV	DSL_250			08-JUN-2006 15:02	1.0	1.0			3	7	
119	157b119	CCV	MO_500			08-JUN-2006 15:30	1.0	1.0			3	6	
120	157b120	CCV	JP5_250			08-JUN-2006 15:57	1.0	1.0			3	3	
121	157b121	CCV	JP8_250			08-JUN-2006 16:25	1.0	1.0			3	4	

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Stds used: 1=S3367 2=S3404 3=S3333 4=S3510 5=S3368 6=S3639 7=S3366

SEQUENCE SUMMARY FOR 187112 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116230044 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 08-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	159a001	X	PRIMER			08-JUN-2006 18:04	1.0						
002	159a002	X	IB			08-JUN-2006 18:32	1.0						
003	159a003	CCV	DSL_500			08-JUN-2006 19:00	1.0	1.0			3	1	
004	159a004	CCV	MO_500			08-JUN-2006 19:27	1.0	1.0			3	2	
005	159a005	SAMPLE	187220-001	114176	Water	08-JUN-2006 21:27	1.0	0.005			3		
006	159a006	SAMPLE	187220-002	114176	Water	08-JUN-2006 21:55	1.0	0.005			3		
007	159a007	SAMPLE	187220-003	114176	Water	08-JUN-2006 22:23	1.0	0.005			3		
008	159a008	SAMPLE	187221-003	114176	Water	08-JUN-2006 22:51	1.0	0.005			3		
009	159a009	SAMPLE	187112-001 S	114176	Water	08-JUN-2006 23:19	1.0	0.005			3		
010	159a010	SAMPLE	187112-002 S	114176	Water	08-JUN-2006 23:47	1.0	0.005			3		
011	159a011	SAMPLE	187112-013 S	114176	Water	09-JUN-2006 00:15	1.0	0.005			3		
012	159a012	SAMPLE	187112-015 S	114176	Water	09-JUN-2006 00:44	1.0	0.005			3		
013	159a013	SAMPLE	187112-016 S	114176	Water	09-JUN-2006 01:12	1.0	0.005			3		
014	159a014	SAMPLE	187137-001 S	114176	Water	09-JUN-2006 01:40	1.0	0.005			3		
015	159a015	X	IB			09-JUN-2006 02:09	1.0						74
016	159a016	CCV	DSL_1000			09-JUN-2006 02:37	1.0	1.0			3	3	
017	159a017	CCV	MO_500			09-JUN-2006 03:04	1.0	1.0			3	2	
018	159a018	X	CCV			09-JUN-2006 03:33	1.0					3	
019	159a019	X	CCV			09-JUN-2006 04:01	1.0					2	
020	159a020	BLANK	QC343264 S	114245	Soil	09-JUN-2006 04:29	1.0	0.1000	8		3		
021	159a021	LCS	QC343265 S	114245	Soil	09-JUN-2006 04:57	1.0	0.09966			3		
022	159a022	MSS	187214-005 S	114245	Soil	09-JUN-2006 05:25	1.0	0.09966	8		3		
023	159a023	MS	QC343266 S	114245	Soil	09-JUN-2006 05:53	1.0	0.09964			3		
024	159a024	MSD	QC343267 S	114245	Soil	09-JUN-2006 06:21	1.0	0.09984			3		
025	159a025	X	IB			09-JUN-2006 06:50	1.0						
026	159a026	SAMPLE	187109-002 S	114175	Water	09-JUN-2006 07:18	1.0	0.005			3		
027	159a027	SAMPLE	187109-003 S	114175	Water	09-JUN-2006 07:46	1.0	0.005			3		
028	159a028	SAMPLE	187109-004 S	114175	Water	09-JUN-2006 08:14	1.0	0.005		1	3		
029	159a029	SAMPLE	187214-006 S	114245	Soil	09-JUN-2006 08:42	1.0	0.1002			3		
030	159a030	SAMPLE	187214-007 S	114245	Soil	09-JUN-2006 09:10	1.0	0.1003			3		
031	159a031	CCV	DSL_250			09-JUN-2006 09:38	1.0	1.0			3	4	

Stds used: 1=S3367 2=S3639 3=S3368 4=S3366

SEQUENCE SUMMARY FOR 187112 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116230044 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 08-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
032	159a032	CCV	MO_500			09-JUN-2006 10:06	1.0	1.0	3	2	

75

Stds used: 1=S3367 2=S3639 3=S3368 4=S3366

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187112 TEHM Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	MO:2	HXCS	
187112-001	GC11A	06/08/06 23:19	1.0	+	+	+	
187112-002	GC11A	06/08/06 23:47	1.0	+	+	+	
187112-013	GC11A	06/09/06 00:15	1.0	+	+	+	
187112-015	GC11A	06/09/06 00:44	1.0	+	+	+	
187112-016	GC11A	06/09/06 01:12	1.0	+	+	+	
QC342998	GC11A	06/07/06 23:52	1.0				
QC342998	GC15B	06/08/06 11:17	1.0	+	+	+	
QC342999	GC11A	06/08/06 00:20	1.0	+		+	
QC343000	GC11A	06/08/06 00:48	1.0	+		+	

Curtis & Tompkins Laboratories Sample Preparation Summary 08-JUN-2006 08:40

Batch Number : 114176
Date Extracted: 06-JUN-2006
Extracted by : Matthew Josh McManus
Prep Method : 3520C

Analysis : N/A
Bgroup : TEH
Units : mL
Clean-up :

Spike #1 ID : S3417C
Spike #2 ID : S3587D
Spike #3 ID :
SOP Version : TEH50LL_rv10

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
187112-001		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
187112-002		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
187112-013		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
187112-015		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
187112-016		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
187137-001		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
187138-001		Tetra Tech EC, INC	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH		
187138-002		Tetra Tech EC, INC	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH		
187138-004		Tetra Tech EC, INC	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH		
187138-006		Tetra Tech EC, INC	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH		
187220-001		RMT, Inc.	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH		
187220-002		RMT, Inc.	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH		
187220-003		RMT, Inc.	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH		
187221-003		RMT, Inc.	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH		
187263-001		LFR Levine Fricke	Water	500	mL	2.5	0.005000	1	7	.5	0		TEH		
187263-002		LFR Levine Fricke	Water	500	mL	2.5	0.005000	1	8	.5	0		TEH		
187263-003		LFR Levine Fricke	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH		
QC342998	BLANK		Water	500	mL	2.5	0.005000	1		.5	0		TEH	3630C	
QC342999	BS		Water	500	mL	2.5	0.005000	1		.5	.5		TEH	3630C	
QC343000	BSD		Water	500	mL	2.5	0.005000	1		.5	.5		TEH	3630C	

Prep Chemist: JDM for MJM Reviewed By: KRy Date: 8 JUN 06

Relinquished By: KRy Received By: MSB Date: 6/8/06

Curtis & Tompkins, Ltd

TEH WATER PREP LOG

BK2279

Page 95

LIMS Batch No: 114176
LIMS Analysis: TEH/M
Extracted by: MJM
Date Extracted: 6/6/06

Extraction Method:
☐ mod. EPA 3510 sep. funnel
☒ mod. EPA 3520 cont. L/L
☐ _____

Cleanup Method (if needed):
☒ EPA 3630 Silica Gel
☐ Other _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
187112-001E	500	6	2.5	X	
-002G					
-013O					
-015P					
-016					
187137-001L					
187138-001H					
-002G					
-004H					
-006					
187220-001G					
-002					
-003H					
187221-003					
MB QC 362998		NA		X	
BS 99					
BSD 3000					
187263-001H	500	7			* Sediment
-002H		8			
-003H		6			
	KR 8 JUN 06				

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.5 mL of TEH_SURR was added to all samples	53417C	6/6/06 MJM
0.5 mL of TEH_SP was added to all spikes	53587D	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	F5054522	
☒ Samples were continually extracted about 450 mL of CH_2Cl_2	EM46110	
Extraction Start Time:	1535 / 1445 / 1645 6/6/06	
Extraction End Time:	1235 MJM 6/7/06	
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	6/8/06 KR
Extracts filtered through baked. CH2Cl2-rinsed granular Na2SO4	EM45691549	
Concentrated to volumes as noted above	✓	

6/6/06
Chemist Date

Contined from Page 78
Continued on Page _____

Reviewed by 8 JUN 06
Date

Curtis & Tompkins, Ltd.

Silica Gel Cleanup

EPA 3630c

Prep Chemist: SFL
Cleanup Date: 6/7/06

Benchbook # **BK 2325**
Page 31

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
MB QC 342998	114176	1.0	1.0	
LCS 999				
BSD 3000				
187109-001	114175			
-002				
-003				
-004				
				SL 6/7/06

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ____ g columns	N/A	SFL 6/7/06
☑ Extracts were cleaned up using 1.0 g cartridges	SP7156	
Extracts were eluted with 4.0 mL CH_2Cl_2	DM46110	
Concentrated to volumes as noted above		

SL 6/7/06
Extraction Chemist / Date

Continued from page ____
Continued on page ____

MAS 6/7/06
Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: KR
Cleanup Date: 8 JUN 06

Benchbook # **BK 2325**
Page 32

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
187112-001	114176	1.0	1.0	
2				
13				
15				
16				
187137-001				
JDM 6/8/06				

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled — g columns	NA	KR 8 JUN 06
☒ Extracts were cleaned up using 1.0 g cartridges	607156	
Extracts were eluted with 4.0 mL CH_2Cl_2	EM46110	
Concentrated to volumes as noted above	✓	

8 JUN 06
Extraction Chemist / Date

Continued from page —
Continued on page —

6/8/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water
As of 07/05/06

Analyte	Units	GC11A	GC13B B	GC15B	GC17A
JP-5 C10-C16	ug/L	17	16	7.9	5.4
Jet Fuel A C10-C16	ug/L	14	30	24	33
Diesel C12-C36	ug/L	13	17		
Diesel C12-C32	ug/L	22	14	25	23
Diesel C12-C28	ug/L		31		
Diesel C12-C24	ug/L	20	13	20	33
Diesel C12-C22	ug/L	19	17	20	25
Diesel C10-C28	ug/L	18	11	22	37
Diesel C10-C24	ug/L	21	15	18	33
Diesel C10-C22	ug/L	21	18	19	27
Diesel C10-C20	ug/L		16	13	19
Motor Oil C22-C36	ug/L	41	52	30	51
Motor Oil C22-C32	ug/L	36	51	21	50
Motor Oil C28-C36	ug/L	42	55	33	76
Motor Oil C20-C36	ug/L	40	50	29	53
Motor Oil C24-C36	ug/L	42	55	33	76
Hexacosane	ug/L	4.5	3.4	4.2	3.1

VOLATILE ORGANIC COMPOUNDS

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DW052506A	Batch#:	114055
Lab ID:	187112-013	Sampled:	05/25/06
Matrix:	Water	Received:	05/26/06
Units:	ug/L	Analyzed:	06/02/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	99	76-114
Toluene-d8	108	88-110
Bromofluorobenzene	103	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	1047MW101	Batch#:	114055
Lab ID:	187112-014	Sampled:	05/25/06
Matrix:	Water	Received:	05/26/06
Units:	ug/L	Analyzed:	06/02/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	98	76-114
Toluene-d8	105	88-110
Bromofluorobenzene	104	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	TB0525061A	Batch#:	114055
Lab ID:	187112-017	Sampled:	05/25/06
Matrix:	Water	Received:	05/26/06
Units:	ug/L	Analyzed:	06/02/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	101	76-114
Toluene-d8	106	88-110
Bromofluorobenzene	107	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC342491	Batch#:	114055
Matrix:	Water	Analyzed:	06/02/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.03
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	98	76-114
Toluene-d8	105	88-110
Bromofluorobenzene	102	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	114055
Units:	ug/L	Analyzed:	06/02/06
Diln Fac:	1.000		

Type: BS Lab ID: QC342489

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	25.98	104	65-135
Benzene	25.00	23.88	96	65-135
Trichloroethene	25.00	24.22	97	65-135
Toluene	25.00	24.05	96	65-135
Chlorobenzene	25.00	23.93	96	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	97	76-114
Toluene-d8	106	88-110
Bromofluorobenzene	97	86-115

Type: BSD Lab ID: QC342490

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	28.85	115	65-135	10	35
Benzene	25.00	25.55	102	65-135	7	35
Trichloroethene	25.00	26.55	106	65-135	9	35
Toluene	25.00	25.22	101	65-135	5	35
Chlorobenzene	25.00	25.80	103	65-135	8	35

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	96	76-114
Toluene-d8	105	88-110
Bromofluorobenzene	95	86-115

RPD= Relative Percent Difference

MSVOA10 8260X W. TUNE
ICM

Data File: \\GCMSSERVER\DD\chem\MSVOA10.i\051506.b\JEF08.D

Date : 15-MAY-2006 16:20

Client ID: bfb tune std

Instrument: MSVOA10.i

Sample Info: BFB,S2327

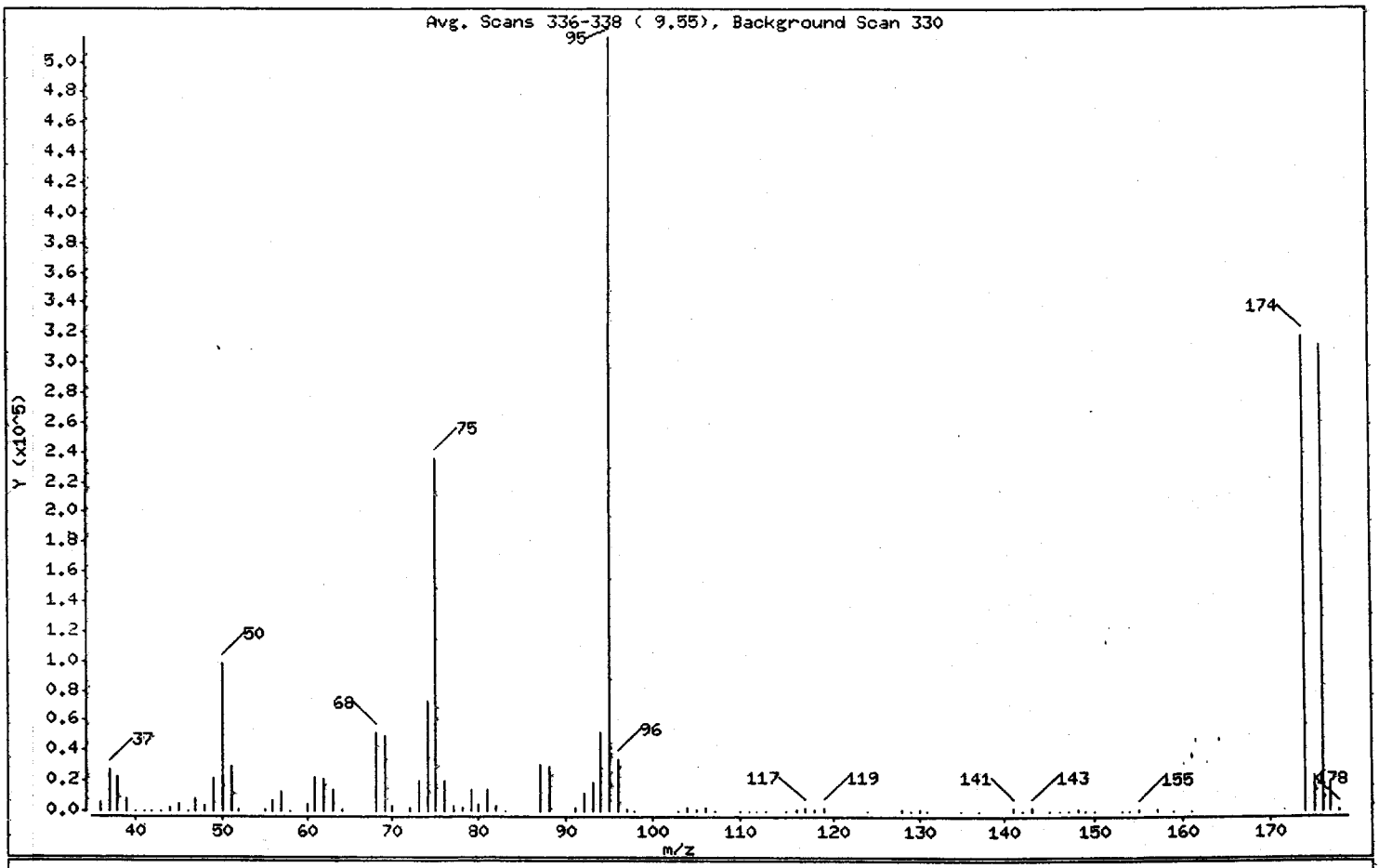
Volume Injected (uL): 1.0

Operator: VOA

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.99
75	30.00 - 60.00% of mass 95	45.73
96	5.00 - 9.00% of mass 95	6.68
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	61.63
175	5.00 - 9.00% of mass 174	4.54 (7.36)
176	95.01 - 100.99% of mass 174	60.56 (98.26)
177	5.00 - 9.00% of mass 176	3.93 (6.49)

05/17/06

5/16/06

MSVOA 10 8260 x WICV TUNE

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051606.b\JEG01.D

Date : 16-MAY-2006 08:13

Client ID: bfb tune std

Instrument: MSVOA10.i

Sample Info: BFB,S2327

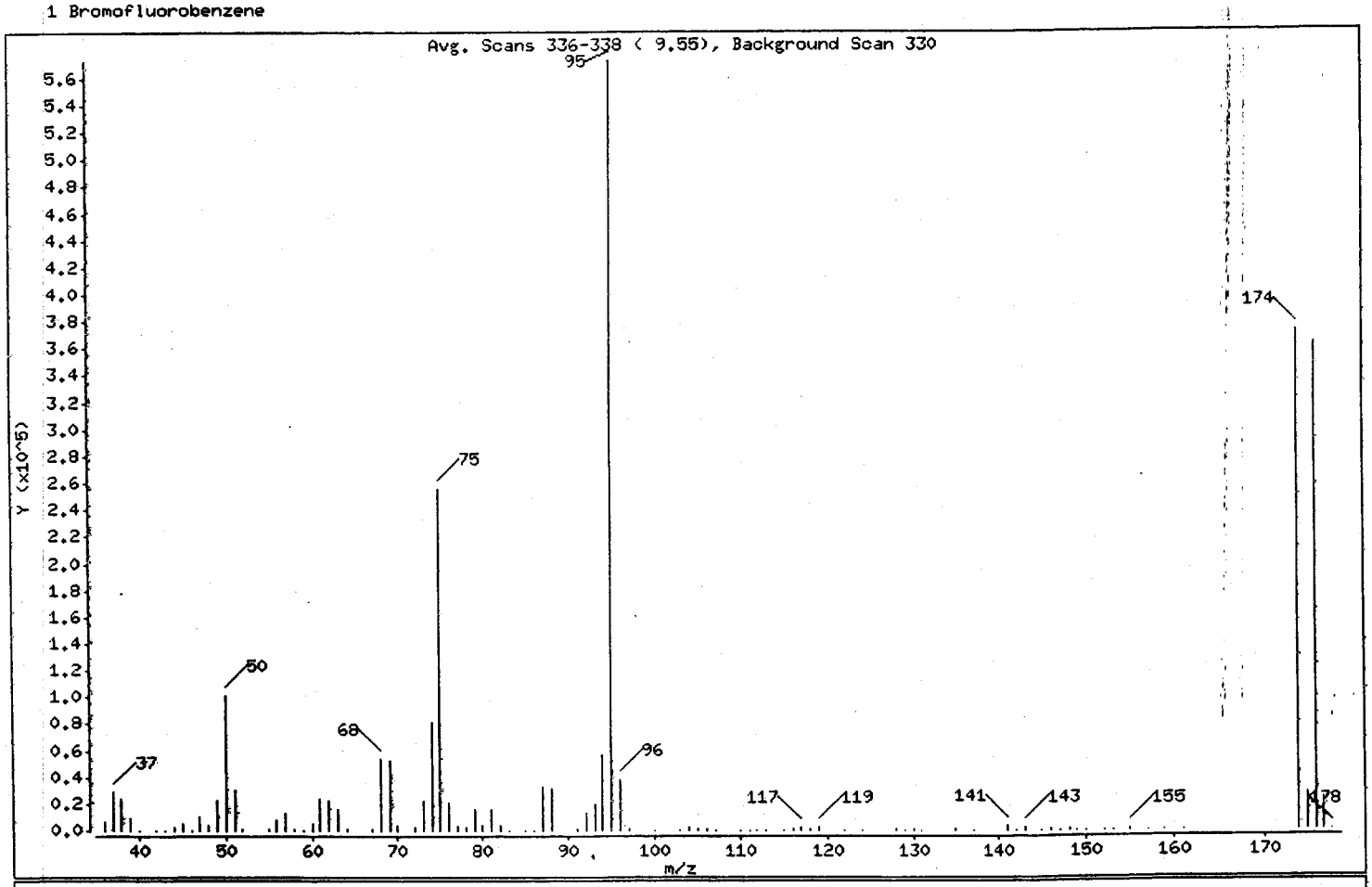
Volume Injected (uL): 1.0

Operator: VOA

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.77
75	30.00 - 60.00% of mass 95	44.64
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	64.99
175	5.00 - 9.00% of mass 174	4.85 (7.46)
176	95.01 - 100.99% of mass 174	63.31 (97.41)
177	5.00 - 9.00% of mass 176	4.05 (6.40)

05/17/06

5/16/06

Data File: \\GCMSSERVER\DD\chem\MSVOA10.i\060206.b\JF201.D

Date : 02-JUN-2006 07:18

Client ID: bfb tune std

Instrument: MSVOA10.i

Sample Info: BFB,S2327

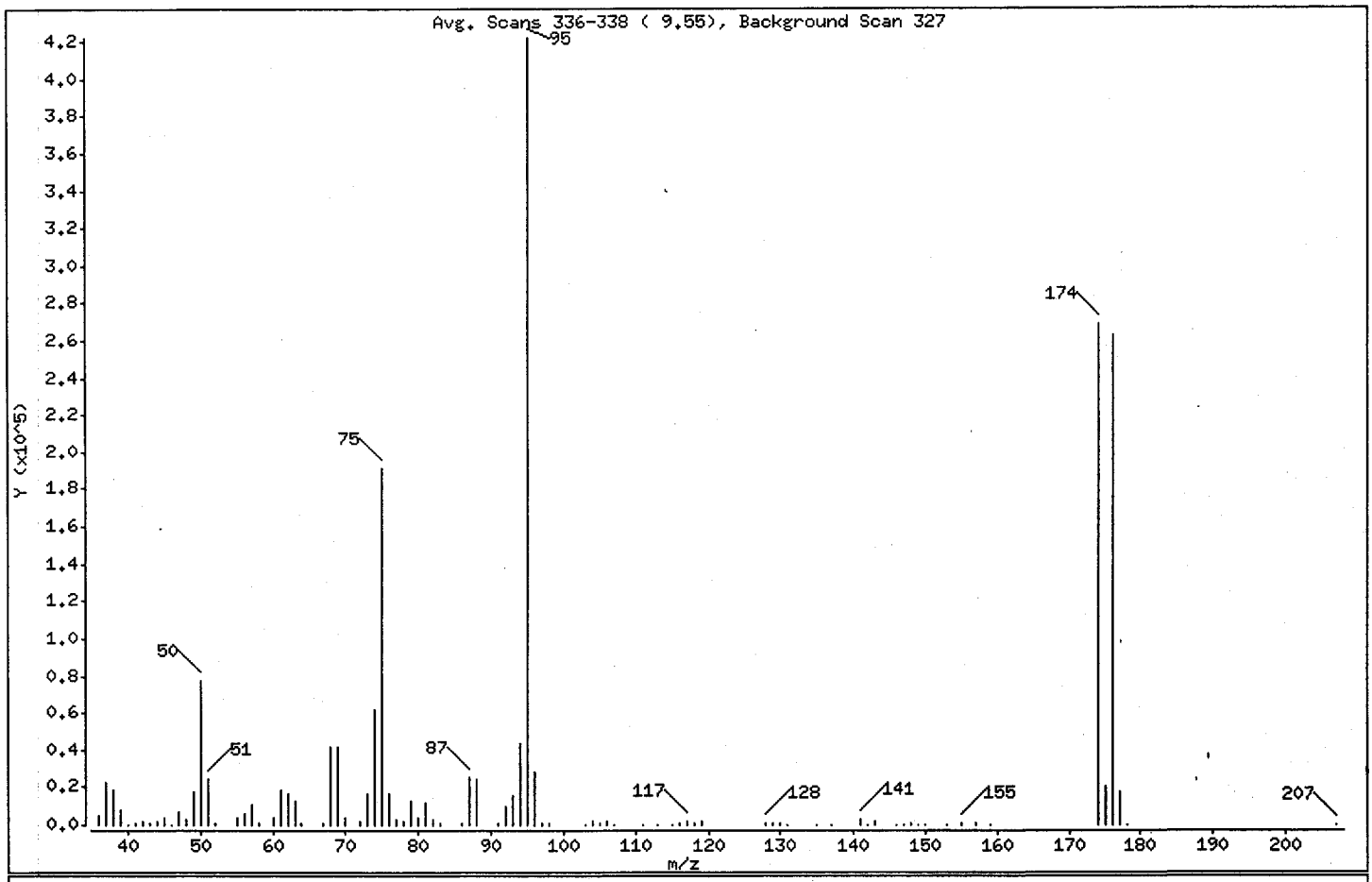
Volume Injected (uL): 1.0

Operator: VOA

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.48
75	30.00 - 60.00% of mass 95	45.35
96	5.00 - 9.00% of mass 95	6.73
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	63.72
175	5.00 - 9.00% of mass 174	4.74 (7.44)
176	95.01 - 100.99% of mass 174	62.36 (97.87)
177	5.00 - 9.00% of mass 176	4.05 (6.49)

a 09/05/06

b 6/2/06

Data File: \\GCMSSERVER\DD\chem\MSVOA10.i\060206.b\JF205.D

Date : 02-JUN-2006 09:27

Client ID: bfb tune std

Instrument: MSVOA10.i

Sample Info: BFB,S2327

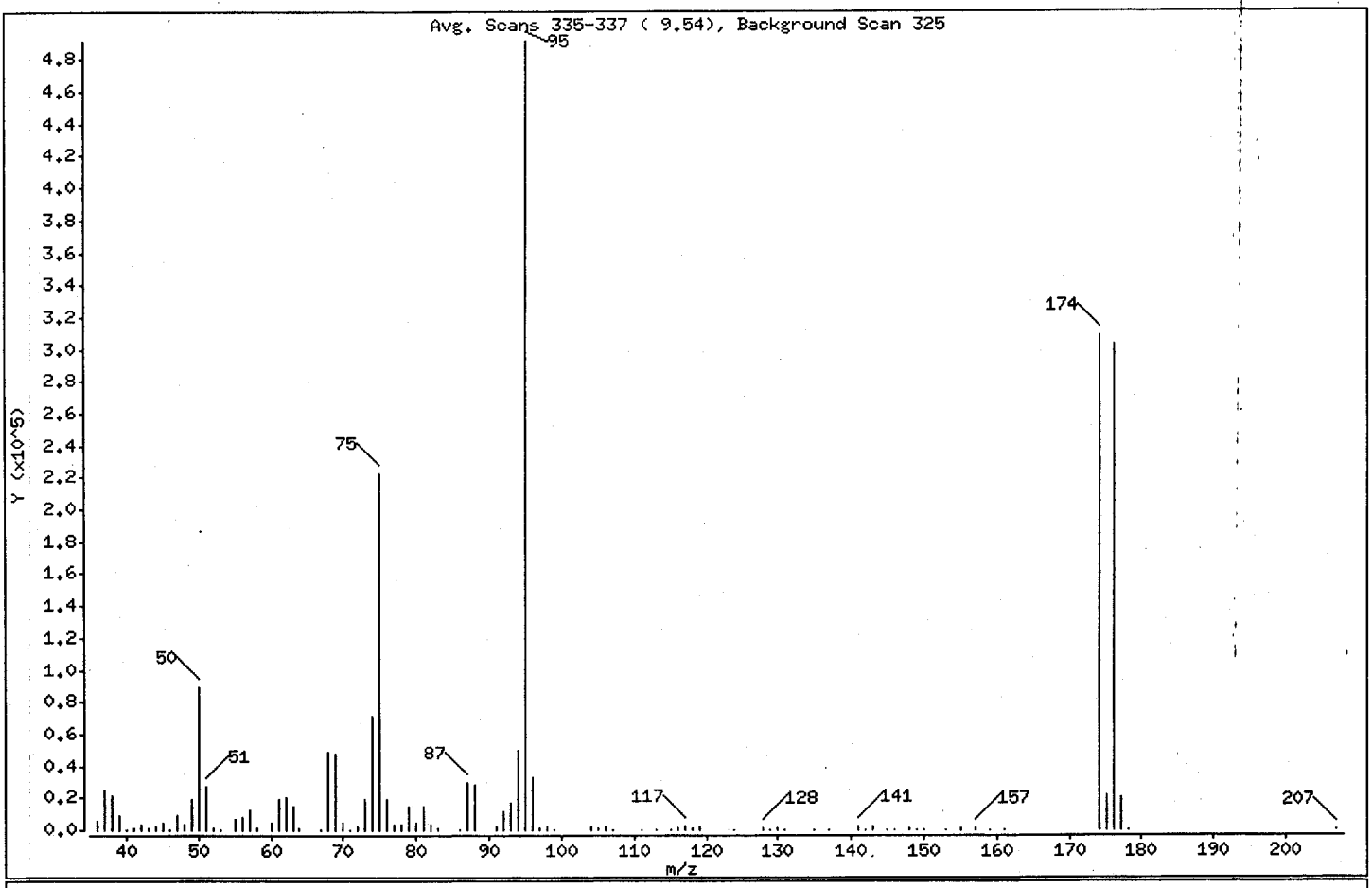
Volume Injected (uL): 1.0

Operator: VOA

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.13
75	30.00 - 60.00% of mass 95	45.38
96	5.00 - 9.00% of mass 95	6.68
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	62.76
175	5.00 - 9.00% of mass 174	4.47 (7.13)
176	95.01 - 100.99% of mass 174	61.51 (98.01)
177	5.00 - 9.00% of mass 176	4.08 (6.64)

6/2/06

6/2/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 8260B

Inst : MSVOA10
Calnum: 496195044001
Units : ug/L

Name : 826GOX10
Date : 15-MAY-2006 18:22
X Axis: R

Type : WATER

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	jef12	496195044012	0.25/0.5PPB	15-MAY-2006 18:22	S3321 (2000000X), S3255 (1000000X), S2864 (2000000X), S3046 (5000X)
L2	jef13	496195044013	0.5/1PPB	15-MAY-2006 18:57	S3321 (1000000X), S3255 (500000X), S2864 (1000000X), S3046 (5000X)
L3	jef14	496195044014	2PPB	15-MAY-2006 19:32	S3321 (250000X), S3255 (250000X), S2864 (500000X), S3046 (5000X)
L4	jef15	496195044015	5PPB	15-MAY-2006 20:07	S3321 (100000X), S3255 (100000X), S2864 (200000X), S3046 (5000X)
L5	jef16	496195044016	10PPB	15-MAY-2006 20:42	S3321 (50000X), S3255 (50000X), S2864 (100000X), S3046 (5000X)
L6	jef17	496195044017	20PPB	15-MAY-2006 21:16	S3321 (25000X), S3255 (25000X), S2864 (50000X), S3046 (5000X)
L7	jef18	496195044018	50PPB	15-MAY-2006 21:51	S3321 (10000X), S3255 (10000X), S2864 (20000X), S3046 (5000X)
L8	jef19	496195044019	75PPB	15-MAY-2006 22:26	S3321 (6667X), S3255 (6667X), S2864 (13330X), S3046 (5000X)
L9	jef20	496195044020	100PPB	15-MAY-2006 23:01	S3321 (5000X), S3255 (5000X), S2864 (10000X), S3046 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.3828m	0.3978m	0.3973m	0.3765	0.3991	0.4229	0.4055	0.3870	AVRG		2.52454		0.3961	4	15	0.050	0.99	
Chloromethane		0.6620m	0.6539	0.5717	0.5304	0.5129	0.5231	0.4902	0.4295	AVRG		1.82917		0.5467	15	15	0.10	0.99	
Vinyl Chloride	0.4244m	0.4168	0.4654	0.4139	0.3859	0.3826	0.4089	0.3850	0.3527	AVRG		2.47548		0.4040	8	15	0.050	0.99	
Bromomethane		0.2577	0.2713	0.2576	0.2536	0.2534	0.2878	0.2958	0.2995	AVRG		3.67518		0.2721	7	15	0.050	0.99	
Chloroethane		0.3805m	0.3873m	0.3446	0.3573	0.3413	0.3446	0.3424	0.3148	AVRG		2.84430		0.3516	7	15	0.050	0.99	
Trichlorofluoromethane		0.5842	0.5946	0.5767	0.5306	0.5346	0.5674	0.5649	0.5229	AVRG		1.78732		0.5595	5	15	0.050	0.99	
Acetone				0.1643	0.1369	0.1419	0.1341	0.1268	0.1163	AVRG		7.31424		0.1367	12	15	0.050	0.99	
Freon 113		0.2504	0.2903	0.2731	0.3563	0.3387	0.3691	0.3537	0.3297	AVRG		3.12347		0.3202	14	15	0.050	0.99	
1,1-Dichloroethene		0.3454	0.3337	0.3198	0.3231	0.3150	0.3265	0.3272	0.3022	AVRG		3.08538		0.3241	4	15	0.050	0.99	
Methylene Chloride			0.5068m	0.4642	0.4517	0.4380	0.4330	0.4311	0.4035	AVRG		2.23761		0.4469	7	15	0.050	0.99	
Carbon Disulfide		1.5375	1.4686	1.4197	1.4402	1.3871	1.4135	1.4006	1.3234	AVRG		0.70234		1.4238	4	15	0.050	0.99	
MTBE		1.2141	1.2047	1.2028	1.1461	1.1060	1.1134	1.1057	1.0321	AVRG		0.87673		1.1406	6	15	0.050	0.99	
trans-1,2-Dichloroethene		0.4154	0.4114	0.4013	0.3887	0.3766	0.3804	0.3816	0.3576	AVRG		2.56988		0.3891	5	15	0.050	0.99	
Vinyl Acetate		1.5852	1.6844	1.6279	1.5970	1.3763	1.5036	1.4187m	1.2815m	AVRG		0.66254		1.5093	9	15	0.050	0.99	
1,1-Dichloroethane		0.7735	0.8034	0.7868	0.7311	0.7155	0.6883	0.6798	0.6253	AVRG		1.37843		0.7255	8	15	0.10	0.99	
2-Butanone			0.2471m	0.2307	0.2009	0.2123	0.2173	0.2113	0.2012	AVRG		4.60287		0.2173	8	15	0.050	0.99	
2,2-Dichloropropane		0.5288	0.5213	0.4817	0.4737	0.4535	0.4595	0.4510	0.4201	AVRG		2.11101		0.4737	8	15	0.050	0.99	
cis-1,2-Dichloroethene		0.4377	0.4690	0.4653	0.4287	0.4174	0.4185	0.4248	0.3877	AVRG		2.31941		0.4311	6	15	0.050	0.99	
Chloroform		0.7740	0.7259	0.7314	0.6792	0.6475	0.6461	0.6316	0.5836	AVRG		1.47623		0.6774	9	15	0.050	0.99	
Bromochloromethane		0.1959	0.1972	0.2150	0.2152	0.2041	0.2135	0.2101	0.2000	AVRG		4.84567		0.2064	4	15	0.050	0.99	
1,1,1-Trichloroethane		0.4614	0.5024	0.4693	0.4857	0.4592	0.4805	0.4679	0.4477	AVRG		2.11964		0.4718	4	15	0.050	0.99	
1,1-Dichloropropene		0.2467	0.2540	0.2411	0.2644	0.2469	0.2575	0.2452	0.2393	AVRG		4.01005		0.2494	3	15	0.050	0.99	
Carbon Tetrachloride		0.1620	0.1957	0.1700	0.1888	0.1807	0.1942	0.1896	0.1816	AVRG		5.47046		0.1828	6	15	0.050	0.99	
1,2-Dichloroethane		0.2618	0.2552	0.2550	0.2551	0.2434	0.2448	0.2460	0.2267	AVRG		4.02399		0.2485	4	15	0.050	0.99	

496195044001

No 2Clw, Nph + 123TCB to 50 ppb only, ICV-Chlbr +, +A.C.E. low - Brbnz ↑, THF ↓ & 5/16/06

05/17/06

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		0.8740	0.8380	0.8044	0.7673	0.7314	0.7288	0.7167	0.6914	AVRG		1.30040		0.7690	8	15	0.050	0.99	
Trichloroethene		0.1917	0.2073	0.1966	0.1913	0.1883	0.1877	0.1853	0.1800	AVRG		5.23495		0.1910	4	15	0.050	0.99	
1,2-Dichloropropane		0.2432	0.2456	0.2439	0.2287	0.2212	0.2213	0.2106	0.1995	AVRG		4.41003		0.2268	7	15	0.050	0.99	
Bromodichloromethane		0.2434	0.2462	0.2563	0.2533	0.2418	0.2488	0.2448	0.2329	AVRG		4.06623		0.2459	3	15	0.050	0.99	
Dibromomethane		0.1334	0.1469	0.1470	0.1404	0.1399	0.1436	0.1418	0.1330	AVRG		7.10507		0.1407	4	15	0.050	0.99	
2-Chloroethylvinylether		0.0213	0.0410	0.0424	0.0429m	0.0503m	0.0674m	0.0596m	0.0614m	LINR	1.58303	15.9168		0.0483	0.996	15	0.050	0.99	irf ***
4-Methyl-2-Pentanone			0.2590	0.2516	0.2585	0.2535	0.2606	0.2202	0.2341	AVRG		4.02893		0.2482	6	15	0.050	0.99	
Tetramethyl THF		0.4591	0.4556	0.4602	0.4411	0.4312	0.4455	0.4384	0.4020	AVRG		2.26435		0.4416	4	15	0.050	0.99	
cis-1,3-Dichloropropene		0.3407	0.3453	0.3290	0.3304	0.3179	0.3307	0.3172	0.3098	AVRG		3.05216		0.3276	4	15	0.050	0.99	
Toluene		0.4827	0.4592	0.4520	0.4503	0.4312	0.4330	0.4190	0.4016	AVRG		2.26699		0.4411	6	15	0.050	0.99	
trans-1,3-Dichloropropene		0.2672	0.2859	0.2871	0.2886	0.2821	0.2899	0.2821	0.2679	AVRG		3.55418		0.2814	3	15	0.050	0.99	
1,1,2-Trichloroethane		0.0901	0.1068	0.1092	0.1089	0.1036	0.1065	0.1032	0.0978	AVRG		9.68308		0.1033	6	15	0.050	0.99	
2-Hexanone			0.1637	0.1671	0.1601	0.1631	0.1645	0.1559	0.1498	AVRG		6.22679		0.1606	4	15	0.050	0.99	
1,3-Dichloropropane		0.3681	0.3809	0.3767	0.3723	0.3530	0.3531	0.3429	0.3321	AVRG		2.77860		0.3599	5	15	0.050	0.99	
Tetrachloroethene		0.1568	0.1749	0.1588	0.1711	0.1665	0.1737	0.1713	0.1669	AVRG		5.96994		0.1675	4	15	0.050	0.99	
Dibromochloromethane		0.1786	0.2121	0.2069	0.2053	0.1981	0.2086	0.2032	0.2005	AVRG		4.95853		0.2017	5	15	0.050	0.99	
1,2-Dibromoethane		0.2182	0.2039	0.2022	0.2031	0.1979	0.2020	0.1980	0.1924	AVRG		4.94554		0.2022	4	15	0.050	0.99	
Chlorobenzene		0.5952	0.6045	0.5716	0.5558	0.5414	0.5380	0.5279	0.5037	AVRG		1.80261		0.5548	6	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.1737	0.1879	0.1822	0.1800	0.1722	0.1761	0.1756	0.1657	AVRG		5.65996		0.1767	4	15	0.050	0.99	
Ethylbenzene		1.0752	1.0035	0.9532	0.9528	0.9188	0.9204	0.8893	0.8259	AVRG		1.06114		0.9424	8	15	0.050	0.99	
m,p-Xylenes	0.3419	0.3596	0.3463	0.3380	0.3446	0.3360	0.3243	0.3153	0.2926	AVRG		3.00129		0.3332	6	15	0.050	0.99	
o-Xylene		0.3510	0.3292	0.3299	0.3331	0.3314	0.3229	0.3110	0.2867	AVRG		3.08267		0.3244	6	15	0.050	0.99	
Styrene		0.5460	0.5439	0.5453	0.5730	0.5618	0.5517	0.5354	0.5006	AVRG		1.83584		0.5447	4	15	0.050	0.99	
Bromoform		0.1520	0.1324	0.1340	0.1361	0.1289	0.1341	0.1328	0.1312	AVRG		7.39802		0.1352	5	15	0.10	0.99	
Isopropylbenzene		2.3319	2.4474	2.1888	2.2058	2.0600	2.0432	1.9798	1.8812	AVRG		0.46680		2.1423	9	15	0.050	0.99	
1,1,2,2-Tetrachloroethane		0.8744	0.9270	0.8730	0.8150	0.7411	0.7625	0.7137	0.6976	AVRG		1.24917		0.8005	11	15	0.30	0.99	
1,2,3-Trichloropropane		0.5835	0.7195	0.6646	0.6953	0.6548	0.6322	0.5847	0.5744	AVRG		1.56586		0.6386	9	15	0.050	0.99	
Propylbenzene		2.7887	2.7605	2.5567	2.6493	2.5088	2.5513	2.4384	2.3530	AVRG		0.38822		2.5758	6	15	0.050	0.99	
Bromobenzene		0.5197	0.5636	0.5362	0.5245	0.4940	0.4847	0.4745	0.4640	AVRG		1.96988		0.5076	7	15	0.050	0.99	
1,3,5-Trimethylbenzene		1.3552	1.4178	1.3735	1.4451	1.3735	1.4025	1.3981	1.3686	AVRG		0.71850		1.3918	2	15	0.050	0.99	
2-Chlorotoluene		2.0216	2.0272	1.8435	1.8090	1.6880	1.6430	1.5777	1.5008	AVRG		0.56694		1.7638	11	15	0.050	0.99	
4-Chlorotoluene		1.6598	1.7640	1.6253	1.5892	1.4952	1.5318	1.4894	1.4324	AVRG		0.63557		1.5734	7	15	0.050	0.99	
tert-Butylbenzene		1.4897m	1.4933m	1.4456	1.5033m	1.4216m	1.4627m	1.4405m	1.4261m	AVRG		0.68476		1.4604	2	15	0.050	0.99	
1,2,4-Trimethylbenzene		1.1033	1.1772	1.2257	1.2776	1.2419	1.3198	1.2878	1.3423	AVRG		0.80195		1.2470	6	15	0.050	0.99	
sec-Butylbenzene		1.8740	1.9454	1.8716	2.1203	2.0258	2.1508	2.0621	2.0254	AVRG		0.49765		2.0094	5	15	0.050	0.99	
para-Isopropyl Toluene		1.0304	1.1241	1.1546	1.3128	1.3328	1.4459	1.4260	1.4442	AVRG		0.77891		1.2838	13	15	0.050	0.99	
1,3-Dichlorobenzene		0.9194	0.9557	0.9232	0.9094	0.8696	0.8740	0.8660	0.8515	AVRG		1.11596		0.8961	4	15	0.050	0.99	
1,4-Dichlorobenzene		0.8808	0.9521	0.8928	0.8709	0.8549	0.8576	0.8500	0.8443	AVRG		1.14230		0.8754	4	15	0.050	0.99	
n-Butylbenzene	0.6209	0.7182	0.7930	0.8311	1.0136	1.0824	1.2310	1.2343	1.2866	QUAD	0.79431	0.86045	-0.00069	0.9790	1.000	15	0.050	0.99	
1,2-Dichlorobenzene		0.7864	0.8584	0.8585	0.8713	0.8278	0.8419	0.8180	0.8163	AVRG		1.19788		0.8348	3	15	0.050	0.99	
1,2-Dibromo-3-Chloropropane		0.1174	0.1205	0.1228	0.1151	0.1131	0.1191	0.1097	0.1088	AVRG		8.63457		0.1158	4	15	0.050	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,4-Trichlorobenzene		0.0391	0.0695	0.1194	0.1573	0.1962	0.2486	0.2656	0.2999	QUAD	1.94727	4.42977	-0.03876	0.1745	0.999	15	0.050	0.99	
Hexachlorobutadiene		0.0420	0.0861	0.0931	0.1322	0.1397	0.1573	0.1511	0.1567	QUAD	1.17051	6.52597	-0.01256	0.1198	0.999	15	0.050	0.99	
Naphthalene	0.3641	0.3775m	0.2532	0.3623	0.3979	0.4760	0.6052			QUAD	0.52030	2.30469	-0.02216	0.4052	0.999	15	0.050	0.99	
1,2,3-Trichlorobenzene		0.0205m	0.0209	0.0796	0.1192	0.1672	0.2245			QUAD	1.74573	6.21801	-0.17127	0.1053	0.998	15	0.050	0.99	
tert-Butyl Alcohol (TBA)		0.0323	0.0360	0.0357	0.0348	0.0351	0.0383	0.0347	0.0333	AVRG		28.5429		0.0350	5	15	0.005	0.99	
Isopropyl Ether (DIPE)		1.6286	1.6311	1.6348	1.5540	1.4779	1.4568	1.4100	1.3104	AVRG		0.66096		1.5130	8	15	0.050	0.99	
Ethyl tert-Butyl Ether (ETBE)		1.2704	1.3108	1.3243	1.2696	1.2294	1.2424	1.2136	1.1582	AVRG		0.79851		1.2523	4	15	0.050	0.99	
Methyl tert-Amyl Ether (TAME)		0.5398	0.5605	0.5577	0.5377	0.5206	0.5310	0.5208	0.4972	AVRG		1.87560		0.5332	4	15	0.050	0.99	
Cyclohexanone		0.0705	0.0692	0.0735	0.0404	0.0863	0.0817	0.0743	0.0738	LINR	1.91227	13.2402		0.0712	0.995	15	0.005	0.99	
Ethanol		0.0066m	0.0056	0.0050	0.0052	0.0058	0.0057	0.0054	0.0052	AVRG		179.809		0.0056	9	15	0.0005	0.99	
Isopropanol		0.0274m	0.0270m	0.0270	0.0257	0.0265	0.0279	0.0251	0.0248	AVRG		37.8452		0.0264	4	15	0.005	0.99	
Tetrahydrofuran		0.1488	0.1450	0.1366	0.1271	0.1242	0.1249	0.1136	0.1032	AVRG		7.81699		0.1279	12	15	0.005	0.99	
Dibromofluoromethane	0.6903	0.6825	0.6871	0.6940	0.6958	0.6881	0.6912	0.6983	0.6677	AVRG		1.45280		0.6883	1	15	0.050	0.99	
1,2-Dichloroethane-d4	0.3878	0.3862	0.3844	0.3905	0.3841	0.3802	0.3830	0.3874	0.3688	AVRG		2.60689		0.3836	2	15	0.050	0.99	
Trifluorotoluene	0.1687	0.1876	0.2145	0.1995	0.2269	0.2143	0.2318	0.2229	0.2124	AVRG		4.79060		0.2087	10	15	0.050	0.99	
Toluene-d8	1.0623	1.0699	1.0481	1.0434	1.0634	1.0730	1.0809	1.0695	1.0613	AVRG		0.94026		1.0635	1	15	0.050	0.99	
Bromofluorobenzene	1.4265	1.3907	1.4239	1.3448	1.3124	1.2785	1.2424	1.2304	1.2286	AVRG		0.75770		1.3198	6	15	0.050	0.99	

irf=ICAL minimum RF failure m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression; QUAD=Quadratic regression

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF12.D
Report Date: 16-May-2006 09:14

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF12.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 15-MAY-2006 18:22 MS Autotune Date: 27-JUL-1998 21:19
Operator : VOA Inst ID: MSVOA10.i
Smp Info : ICAL,S3321,0.0005/1000,S3255,0.001/1000
Misc Info : S2864,0.0005/1000,0.25/0.5PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\826GOX10.m
Meth Date : 16-May-2006 09:14 Erik Quant Type: ISTD
Cal Date : 15-MAY-2006 18:22 Cal File: JEF12.D
Als bottle: 12 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.639	4.632	(0.432)	4371	0.50000	0.4522(M)
2 Chloromethane	50	5.102	5.105	(0.475)	8905	0.50000	0.6675(M)
3 Vinyl Chloride	62	5.289	5.292	(0.492)	5178	0.50000	0.5253(M)
4 Bromomethane	94	5.969	5.972	(0.555)	3305	0.50000	0.4978(M)
5 Chloroethane	64	6.136	6.149	(0.571)	4272	0.50000	0.4979(M)
6 Trichlorofluoromethane	101	6.619	6.612	(0.616)	6327	0.50000	0.4634
7 Ethanol	45	6.786	6.760	(0.632)	3858	25.0000	28.4307(M)
8 Freon 113	101	7.436	7.439	(0.692)	1927	0.25000	0.2466
9 Acetone	43	7.485	7.459	(0.697)	4086	0.25000	1.2248(M)
10 1,1-Dichloroethene	96	7.485	7.479	(0.697)	2422	0.25000	0.3062
11 Isopropanol	45	7.594	7.577	(0.707)	1498	2.50000	2.3234(M)
12 Carbon Disulfide	76	7.919	7.922	(0.737)	9528	0.25000	0.2742
13 Methylene Chloride	84	8.195	8.188	(0.763)	3842	0.25000	0.3523(M)
14 tert-Butyl Alcohol (TBA)	59	8.204	8.198	(0.764)	1569	2.50000	1.8354
15 MTBE	73	8.579	8.571	(0.798)	6853	0.25000	0.2462
16 trans-1,2-Dichloroethene	96	8.628	8.621	(0.803)	2781	0.25000	0.2929
18 Vinyl Acetate	43	9.248	9.212	(0.861)	9595	0.25000	0.2605
19 1,1-Dichloroethane	63	9.248	9.242	(0.861)	4346	0.25000	0.2455
20 Isopropyl Ether (DIPE)	45	9.258	9.251	(0.862)	8910	0.25000	0.2413
21 Ethyl tert-Butyl Ether (ETBE)	59	9.800	9.793	(0.912)	7092	0.25000	0.2320
22 2-Butanone	43	10.056	10.029	(0.936)	1461	0.25000	0.2756
23 cis-1,2-Dichloroethene	96	10.105	10.098	(0.940)	2844	0.25000	0.2703

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF12.D
Report Date: 16-May-2006 09:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	24 2,2-Dichloropropane	77	10.135	10.128	(0.943)	2934	0.25000	0.2538
	25 Bromochloromethane	128	10.460	10.463	(0.973)	901	0.25000	0.1789
	26 Chloroform	83	10.529	10.522	(0.980)	4576	0.25000	0.2768
	27 Tetrahydrofuran	42	10.558	10.532	(0.983)	10793	2.50000	3.4577
*	28 Pentafluorobenzene	168	10.745	10.748	(1.000)	1219984	50.0000	
	29 Dibromofluoromethane	113	10.775	10.768	(1.003)	842111	50.0000	50.1408
	30 1,1,1-Trichloroethane	97	10.903	10.896	(1.015)	3170	0.25000	0.2753
	31 1,1-Dichloropropene	75	11.139	11.133	(0.934)	3324	0.25000	0.2687
	32 Carbon Tetrachloride	117	11.179	11.172	(0.937)	2194	0.25000	0.2420
	33 1,2-Dichloroethane-d4	65	11.317	11.310	(0.949)	961543	50.0000	50.5460
	34 1,2-Dichloroethane	62	11.435	11.428	(0.959)	2956	0.25000	0.2398
	35 Benzene	78	11.464	11.467	(0.961)	10586	0.25000	0.2775
	36 Methyl tert-Amyl Ether (TAME)	73	11.533	11.517	(0.967)	6410	0.25000	0.2424
*	37 1,4-Difluorobenzene	114	11.927	11.930	(1.000)	2479555	50.0000	
	38 Trichloroethene	95	12.390	12.383	(1.039)	2317	0.25000	0.2445
	39 Trifluorotoluene	146	12.695	12.699	(1.064)	2092	0.25000	0.2020
	40 1,2-Dichloropropane	63	12.705	12.708	(1.065)	3049	0.25000	0.2711
	41 Dibromomethane	93	12.892	12.876	(1.081)	1405	0.25000	0.2012
	42 Bromodichloromethane	83	13.050	13.043	(1.094)	2487	0.25000	0.2039
	43 2-Chloroethylvinylether	63	13.375	13.644	(1.121)	482	0.50000	1.7377
	44 cis-1,3-Dichloropropene	75	13.661	13.654	(1.145)	3663	0.25000	0.2254
	45 Tetramethyl THF	43	13.739	13.733	(1.152)	6160	0.25000	0.2812
	46 4-Methyl-2-Pentanone	43	13.798	13.782	(1.157)	2588	0.25000	0.2102
	47 Toluene-d8	98	14.064	14.058	(1.179)	2634121	50.0000	49.9435
	48 Toluene	92	14.153	14.156	(1.187)	5148	0.25000	0.2353
	49 trans-1,3-Dichloropropene	75	14.360	14.353	(1.204)	2934	0.25000	0.2102
	50 1,1,2-Trichloroethane	85	14.626	14.619	(1.226)	853	0.25000	0.1665
	51 1,3-Dichloropropane	76	14.872	14.855	(0.934)	3272	0.25000	0.2085
	52 2-Hexanone	43	14.892	14.865	(0.935)	2335	0.25000	0.3335 (M)
	53 Tetrachloroethene	166	14.902	14.895	(0.936)	1794	0.25000	0.2456
	54 Dibromochloromethane	129	15.187	15.180	(0.954)	1799	0.25000	0.2046
	55 1,2-Dibromoethane	107	15.374	15.368	(1.289)	1777	0.25000	0.1772
*	56 Chlorobenzene-d5	117	15.926	15.919	(1.000)	2179812	50.0000	
	57 Chlorobenzene	112	15.965	15.958	(1.002)	6260	0.25000	0.2588
	58 1,1,1,2-Tetrachloroethane	131	16.024	16.018	(1.006)	1560	0.25000	0.2025
	59 Ethylbenzene	91	16.044	16.047	(1.007)	9846	0.25000	0.2396
	60 m,p-Xylenes	106	16.182	16.175	(1.016)	7453	0.50000	0.5130
	61 o-Xylene	106	16.655	16.658	(1.046)	3123	0.25000	0.2208
	62 Styrene	104	16.674	16.668	(1.047)	4790	0.25000	0.2017
	63 Bromoform	173	16.930	16.924	(1.063)	1775	0.25000	0.3012
	64 Isopropylbenzene	105	17.068	17.062	(0.916)	9311	0.25000	0.2790
	65 Cyclohexanone	55	17.216	17.199	(0.924)	3368	2.50000	4.7751
	66 Bromofluorobenzene	95	17.265	17.268	(0.927)	1110963	50.0000	54.0423
	67 1,1,2,2-Tetrachloroethane	83	17.364	17.357	(0.932)	3033	0.25000	0.2432
	68 1,2,3-Trichloropropane	75	17.443	17.436	(0.937)	2202	0.25000	0.2213
	69 Bromobenzene	156	17.492	17.485	(0.939)	1728	0.25000	0.2185
	70 Propylbenzene	91	17.531	17.524	(0.941)	9982	0.25000	0.2487
	71 2-Chlorotoluene	91	17.679	17.672	(0.949)	6932	0.25000	0.2523
	72 1,3,5-Trimethylbenzene	105	17.699	17.702	(0.950)	4863	0.25000	0.2243
	73 4-Chlorotoluene	91	17.797	17.790	(0.956)	6038	0.25000	0.2463
	74 tert-Butylbenzene	119	18.102	18.105	(0.972)	4673	0.25000	0.2054
	75 1,2,4-Trimethylbenzene	105	18.152	18.145	(0.975)	4212	0.25000	0.2168
	76 sec-Butylbenzene	105	18.358	18.352	(0.986)	6264	0.25000	0.2001
	77 para-Isopropyl Toluene	119	18.496	18.490	(0.993)	3823	0.25000	0.1911

JB 5/16/06

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF12.D
Report Date: 16-May-2006 09:14

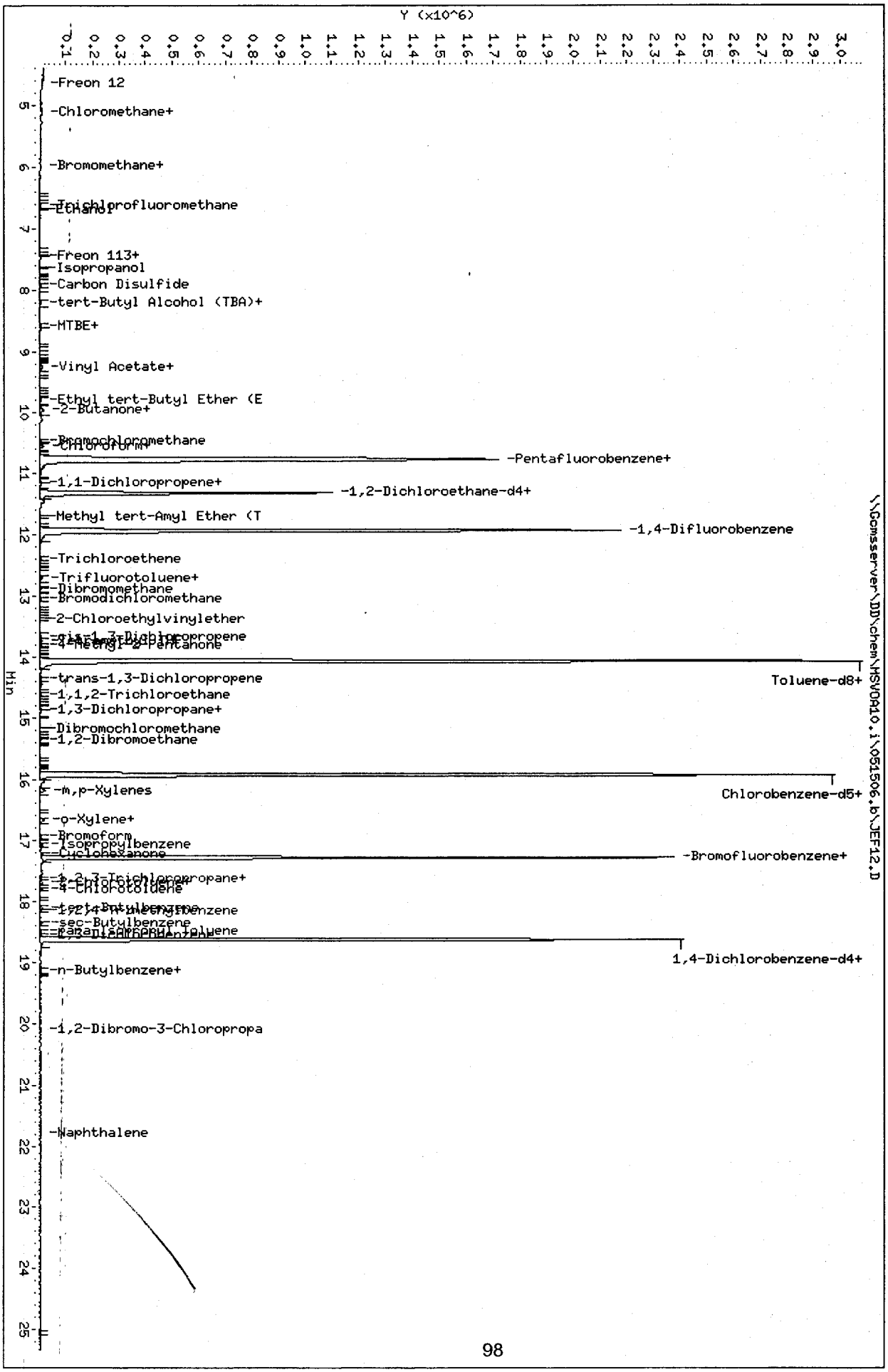
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	78 1,3-Dichlorobenzene	146	18.555	18.549	(0.996)	3056	0.25000	0.2189
*	79 1,4-Dichlorobenzene-d4	152	18.624	18.618	(1.000)	778812	50.0000	
	80 1,4-Dichlorobenzene	146	18.664	18.647	(1.002)	3595	0.25000	0.2636
	81 n-Butylbenzene	91	18.999	18.992	(1.020)	2418	0.25000	0.9278
	82 1,2-Dichlorobenzene	146	19.127	19.120	(1.027)	2593	0.25000	0.1994
	83 1,2-Dibromo-3-Chloropropane	75	20.102	20.105	(1.079)	322	0.25000	0.1784
	86 Naphthalene	128	21.796	21.789	(1.170)	1418	0.25000	0.7299

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF12.D
Date : 15-MAY-2006 18:22
Client ID: DYNA P&T
Sample Info: ICAL,S3321,0.0005/1000,S3255,0.001/1000
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOA
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF13.D
Report Date: 16-May-2006 09:14

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF13.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 15-MAY-2006 18:57 MS Autotune Date: 27-JUL-1998 21:19
Operator : VOA Inst ID: MSVOA10.i
Smp Info : ICAL,S3321,0.001/1000,S3255,0.002/1000
Misc Info : S2864,0.001/1000,0.5/1PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\826GOX10.m
Meth Date : 16-May-2006 09:14 Erik Quant Type: ISTD
Cal Date : 15-MAY-2006 18:57 Cal File: JEF13.D
Als bottle: 13 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.629	4.632	(0.430)	9296	1.00000	0.9663(M)
2 Chloromethane	50	5.101	5.105	(0.474)	16077	1.00000	1.2109(M)
3 Vinyl Chloride	62	5.298	5.292	(0.493)	10121	1.00000	1.0317
4 Bromomethane	94	5.978	5.972	(0.556)	6257	1.00000	0.9469
5 Chloroethane	64	6.155	6.149	(0.572)	9239	1.00000	1.0821(M)
6 Trichlorofluoromethane	101	6.608	6.612	(0.614)	14188	1.00000	1.0442
7 Ethanol	45	6.786	6.760	(0.631)	8030	50.0000	59.4565(M)
8 Freon 113	101	7.436	7.439	(0.691)	3041	0.50000	0.3911
9 Acetone	43	7.485	7.459	(0.696)	4685	0.50000	1.4110
10 1,1-Dichloroethene	96	7.475	7.479	(0.695)	4194	0.50000	0.5328
11 Isopropanol	45	7.593	7.577	(0.706)	3331	5.00000	5.1910(M)
12 Carbon Disulfide	76	7.918	7.922	(0.736)	18669	0.50000	0.5399
13 Methylene Chloride	84	8.194	8.188	(0.762)	6617	0.50000	0.6097(M)
14 tert-Butyl Alcohol (TBA)	59	8.214	8.198	(0.764)	3924	5.00000	4.6121
15 MTBE	73	8.578	8.571	(0.798)	14742	0.50000	0.5322
16 trans-1,2-Dichloroethene	96	8.617	8.621	(0.801)	5044	0.50000	0.5337
18 Vinyl Acetate	43	9.248	9.212	(0.860)	19248	0.50000	0.5251
19 1,1-Dichloroethane	63	9.238	9.242	(0.859)	9392	0.50000	0.5331
20 Isopropyl Ether (DIPE)	45	9.258	9.251	(0.861)	19775	0.50000	0.5382
21 Ethyl tert-Butyl Ether (ETBE)	59	9.799	9.793	(0.911)	15426	0.50000	0.5072
22 2-Butanone	43	10.055	10.029	(0.935)	2644	0.50000	0.5011
23 cis-1,2-Dichloroethene	96	10.095	10.098	(0.939)	5315	0.50000	0.5076

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF13.D
Report Date: 16-May-2006 09:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
24	2,2-Dichloropropane	77	10.134	10.128	(0.942)	6421	0.50000	0.5581
25	Bromochloromethane	128	10.459	10.463	(0.973)	2379	0.50000	0.4747
26	Chloroform	83	10.528	10.522	(0.979)	9398	0.50000	0.5712
27	Tetrahydrofuran	42	10.548	10.532	(0.981)	18063	5.00000	5.8143
* 28	Pentafluorobenzene	168	10.755	10.748	(1.000)	1214219	50.0000	
29	Dibromofluoromethane	113	10.774	10.768	(1.002)	828730	50.0000	49.5784
30	1,1,1-Trichloroethane	97	10.902	10.896	(1.014)	5603	0.50000	0.4890
31	1,1-Dichloropropene	75	11.129	11.133	(0.933)	6048	0.50000	0.4947
32	Carbon Tetrachloride	117	11.178	11.172	(0.937)	3970	0.50000	0.4430
33	1,2-Dichloroethane-d4	65	11.316	11.310	(0.949)	946695	50.0000	50.3428
34	1,2-Dichloroethane	62	11.434	11.428	(0.959)	6418	0.50000	0.5268
35	Benzene	78	11.464	11.467	(0.961)	21423	0.50000	0.5682
36	Methyl tert-Amyl Ether (TAME)	73	11.523	11.517	(0.966)	13232	0.50000	0.5062
* 37	1,4-Difluorobenzene	114	11.927	11.930	(1.000)	2451118	50.0000	
38	Trichloroethene	95	12.389	12.383	(1.039)	4698	0.50000	0.5016
39	Trifluorotoluene	146	12.695	12.699	(1.064)	4599	0.50000	0.4494
40	1,2-Dichloropropane	63	12.705	12.708	(1.065)	5962	0.50000	0.5363
41	Dibromomethane	93	12.882	12.876	(1.080)	3269	0.50000	0.4737
42	Bromodichloromethane	83	13.049	13.043	(1.094)	5966	0.50000	0.4948
43	2-Chloroethylvinylether	63	13.384	13.644	(1.122)	1046	1.00000	1.9226
44	cis-1,3-Dichloropropene	75	13.660	13.654	(1.145)	8351	0.50000	0.5199
45	Tetramethyl THF	43	13.739	13.733	(1.152)	11252	0.50000	0.5197
46	4-Methyl-2-Pentanone	43	13.788	13.782	(1.156)	6310	0.50000	0.5185
47	Toluene-d8	98	14.064	14.058	(1.179)	2622380	50.0000	50.2977
48	Toluene	92	14.162	14.156	(1.187)	11831	0.50000	0.5471
49	trans-1,3-Dichloropropene	75	14.359	14.353	(1.204)	6550	0.50000	0.4748
50	1,1,2-Trichloroethane	85	14.625	14.619	(1.226)	2209	0.50000	0.4363
51	1,3-Dichloropropane	76	14.862	14.855	(0.933)	8042	0.50000	0.5114
52	2-Hexanone	43	14.891	14.865	(0.935)	3719	0.50000	0.5300(M)
53	Tetrachloroethene	166	14.901	14.895	(0.936)	3426	0.50000	0.4681
54	Dibromochloromethane	129	15.177	15.180	(0.953)	3902	0.50000	0.4428
55	1,2-Dibromoethane	107	15.374	15.368	(1.289)	5349	0.50000	0.5396
* 56	Chlorobenzene-d5	117	15.925	15.919	(1.000)	2184538	50.0000	
57	Chlorobenzene	112	15.965	15.958	(1.002)	13003	0.50000	0.5364
58	1,1,1,2-Tetrachloroethane	131	16.024	16.018	(1.006)	3795	0.50000	0.4916
59	Ethylbenzene	91	16.053	16.047	(1.008)	23488	0.50000	0.5704
60	m,p-Xylenes	106	16.181	16.175	(1.016)	15710	1.00000	1.0791
61	o-Xylene	106	16.664	16.658	(1.046)	7668	0.50000	0.5410
62	Styrene	104	16.674	16.668	(1.047)	11927	0.50000	0.5011
63	Bromoform	173	16.930	16.924	(1.063)	3320	0.50000	0.5621
64	Isopropylbenzene	105	17.068	17.062	(0.916)	18774	0.50000	0.5442
65	Cyclohexanone	55	17.206	17.199	(0.924)	5680	5.00000	6.5827
66	Bromofluorobenzene	95	17.265	17.268	(0.927)	1119651	50.0000	52.6860
67	1,1,2,2-Tetrachloroethane	83	17.363	17.357	(0.932)	7040	0.50000	0.5461
68	1,2,3-Trichloropropane	75	17.442	17.436	(0.937)	4698	0.50000	0.4568
69	Bromobenzene	156	17.481	17.485	(0.939)	4184	0.50000	0.5118
70	Propylbenzene	91	17.531	17.524	(0.941)	22452	0.50000	0.5413
71	2-Chlorotoluene	91	17.678	17.672	(0.949)	16276	0.50000	0.5730
72	1,3,5-Trimethylbenzene	105	17.698	17.702	(0.950)	10911	0.50000	0.4868
73	4-Chlorotoluene	91	17.796	17.790	(0.956)	13363	0.50000	0.5274
74	tert-Butylbenzene	119	18.102	18.105	(0.972)	11994	0.50000	0.5100(M)
75	1,2,4-Trimethylbenzene	105	18.151	18.145	(0.975)	8883	0.50000	0.4424
76	sec-Butylbenzene	105	18.358	18.352	(0.986)	15088	0.50000	0.4663
77	para-Isopropyl Toluene	119	18.496	18.490	(0.993)	8296	0.50000	0.4013

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF13.D
Report Date: 16-May-2006 09:14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
78 1,3-Dichlorobenzene	146	18.555	18.549	(0.996)	7402	0.50000	0.5129
* 79 1,4-Dichlorobenzene-d4	152	18.624	18.618	(1.000)	805108	50.0000	
80 1,4-Dichlorobenzene	146	18.653	18.647	(1.002)	7091	0.50000	0.5030
81 n-Butylbenzene	91	18.998	18.992	(1.020)	5782	0.50000	1.1031
82 1,2-Dichlorobenzene	146	19.126	19.120	(1.027)	6331	0.50000	0.4709
83 1,2-Dibromo-3-Chloropropane	75	20.111	20.105	(1.080)	945	0.50000	0.5067
84 1,2,4-Trichlorobenzene	180	21.342	21.336	(1.146)	315	0.50000	2.0339
85 Hexachlorobutadiene	225	21.549	21.553	(1.157)	338	0.50000	1.3074
86 Naphthalene	128	21.785	21.789	(1.170)	3039	0.50000	0.9544 (M)
87 1,2,3-Trichlorobenzene	180	22.209	22.203	(1.192)	165	0.50000	1.8094 (M)

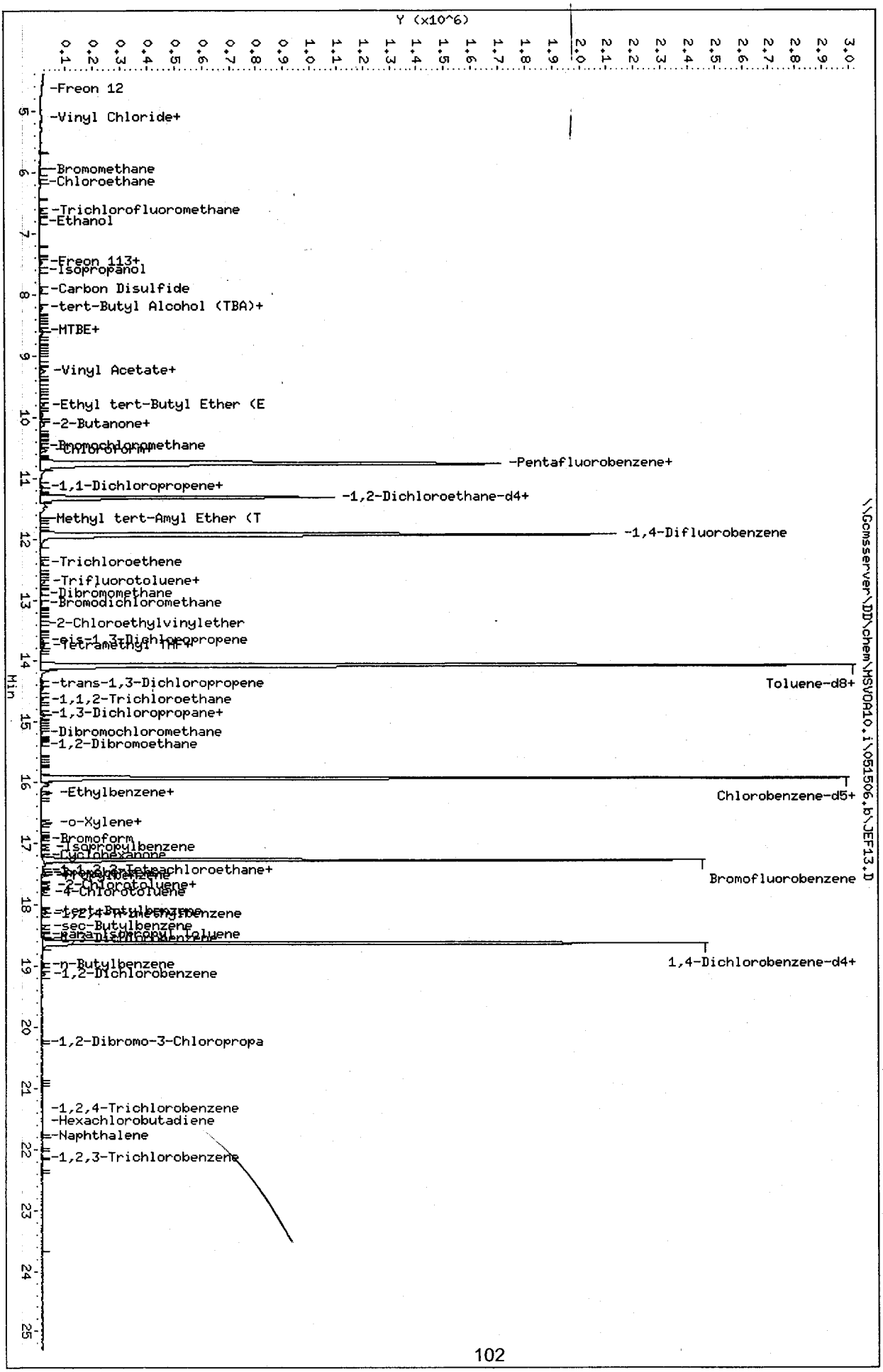
5/16/06

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF13.D
Date : 15-MAY-2006 18:57
Client ID: DYNA P&T
Sample Info: ICAL,S3321,0.001/1000,S3255,0.002/1000
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOA
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF14.D
Report Date: 16-May-2006 09:14

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF14.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 15-MAY-2006 19:32 MS Autotune Date: 27-JUL-1998 21:19
Operator : VOA Inst ID: MSVOA10.i
Smp Info : ICAL,S3321,0.002/500,S3255,0.002/500
Misc Info : S2864,0.001/500,2PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\826GOX10.m
Meth Date : 16-May-2006 09:14 Erik Quant Type: ISTD
Cal Date : 15-MAY-2006 19:32 Cal File: JEF14.D
Als bottle: 14 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.635	4.632	(0.432)	19334	2.00000	2.0084(M)
2 Chloromethane	50	5.098	5.105	(0.475)	31783	2.00000	2.3922
3 Vinyl Chloride	62	5.295	5.292	(0.493)	22620	2.00000	2.3041
4 Bromomethane	94	5.974	5.972	(0.556)	13185	2.00000	1.9939
5 Chloroethane	64	6.142	6.149	(0.572)	18822	2.00000	2.2029(M)
6 Trichlorofluoromethane	101	6.604	6.612	(0.615)	28899	2.00000	2.1253
7 Ethanol	45	6.782	6.760	(0.631)	27343	200.000	202.3081
8 Freon 113	101	7.442	7.439	(0.693)	14112	2.00000	1.8137
9 Acetone	43	7.481	7.459	(0.697)	9533	2.00000	2.8691
10 1,1-Dichloroethene	96	7.481	7.479	(0.697)	16220	2.00000	2.0592
11 Isopropanol	45	7.589	7.577	(0.707)	13126	20.0000	20.4408(M)
12 Carbon Disulfide	76	7.924	7.922	(0.738)	71378	2.00000	2.0628
13 Methylene Chloride	84	8.190	8.188	(0.763)	24635	2.00000	2.2682(M)
14 tert-Butyl Alcohol (TBA)	59	8.210	8.198	(0.764)	17477	20.0000	20.5267
15 MTBE	73	8.584	8.571	(0.799)	58552	2.00000	2.1123
16 trans-1,2-Dichloroethene	96	8.633	8.621	(0.804)	19994	2.00000	2.1143
18 Vinyl Acetate	43	9.224	9.212	(0.859)	81871	2.00000	2.2320
19 1,1-Dichloroethane	63	9.244	9.242	(0.861)	39048	2.00000	2.2148
20 Isopropyl Ether (DIPE)	45	9.254	9.251	(0.862)	79278	2.00000	2.1561
21 Ethyl tert-Butyl Ether (ETBE)	59	9.795	9.793	(0.912)	63712	2.00000	2.0934
22 2-Butanone	43	10.052	10.029	(0.936)	12009	2.00000	2.2745(M)
23 cis-1,2-Dichloroethene	96	10.101	10.098	(0.940)	22794	2.00000	2.1754

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF14.D
Report Date: 16-May-2006 09:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	24 2,2-Dichloropropane	77	10.130	10.128	(0.943)	25339	2.00000	2.2010
	25 Bromochloromethane	128	10.465	10.463	(0.974)	9585	2.00000	1.9111
	26 Chloroform	83	10.534	10.522	(0.981)	35283	2.00000	2.1432
	27 Tetrahydrofuran	42	10.544	10.532	(0.982)	70490	20.0000	22.6737
*	28 Pentafluorobenzene	168	10.741	10.748	(1.000)	1215105	50.0000	
	29 Dibromofluoromethane	113	10.771	10.768	(1.003)	834914	50.0000	49.9119
	30 1,1,1-Trichloroethane	97	10.908	10.896	(1.016)	24418	2.00000	2.1297
	31 1,1-Dichloropropene	75	11.135	11.133	(0.934)	25210	2.00000	2.0367
	32 Carbon Tetrachloride	117	11.184	11.172	(0.938)	19426	2.00000	2.1410
	33 1,2-Dichloroethane-d4	65	11.312	11.310	(0.949)	954106	50.0000	50.1104
	34 1,2-Dichloroethane	62	11.440	11.428	(0.960)	25330	2.00000	2.0535
	35 Benzene	78	11.470	11.467	(0.962)	83188	2.00000	2.1794
	36 Methyl tert-Amyl Ether (TAME)	73	11.519	11.517	(0.966)	55641	2.00000	2.1025
*	37 1,4-Difluorobenzene	114	11.923	11.930	(1.000)	2481765	50.0000	
	38 Trichloroethene	95	12.386	12.383	(1.039)	20582	2.00000	2.1707
	39 Trifluorotoluene	146	12.701	12.699	(1.065)	21289	2.00000	2.0547
	40 1,2-Dichloropropane	63	12.701	12.708	(1.065)	24381	2.00000	2.1662
	41 Dibromomethane	93	12.888	12.876	(1.081)	14582	2.00000	2.0873
	42 Bromodichloromethane	83	13.046	13.043	(1.094)	24436	2.00000	2.0018
	43 2-Chloroethylvinylether	63	13.390	13.644	(1.123)	4068	2.00000	2.8875
	44 cis-1,3-Dichloropropene	75	13.656	13.654	(1.145)	34281	2.00000	2.1079
	45 Tetramethyl THF	43	13.735	13.733	(1.152)	45229	2.00000	2.0633
	46 4-Methyl-2-Pentanone	43	13.794	13.782	(1.157)	25710	2.00000	2.0868
	47 Toluene-d8	98	14.060	14.058	(1.179)	2601137	50.0000	49.2742
	48 Toluene	92	14.159	14.156	(1.188)	45582	2.00000	2.0818
	49 trans-1,3-Dichloropropene	75	14.355	14.353	(1.204)	28382	2.00000	2.0323
	50 1,1,2-Trichloroethane	85	14.621	14.619	(1.226)	10601	2.00000	2.0680
	51 1,3-Dichloropropane	76	14.858	14.855	(0.933)	33329	2.00000	2.1166
	52 2-Hexanone	43	14.877	14.865	(0.934)	14326	2.00000	2.0388
	53 Tetrachloroethene	166	14.897	14.895	(0.936)	15308	2.00000	2.0887
	54 Dibromochloromethane	129	15.183	15.180	(0.954)	18564	2.00000	2.1038
	55 1,2-Dibromoethane	107	15.370	15.368	(1.289)	20237	2.00000	2.0163
*	56 Chlorobenzene-d5	117	15.921	15.919	(1.000)	2187614	50.0000	
	57 Chlorobenzene	112	15.961	15.958	(1.002)	52894	2.00000	2.1792
	58 1,1,1,2-Tetrachloroethane	131	16.020	16.018	(1.006)	16444	2.00000	2.1272
	59 Ethylbenzene	91	16.049	16.047	(1.008)	87809	2.00000	2.1296
	60 m,p-Xylenes	106	16.177	16.175	(1.016)	60608	4.00000	4.1575
	61 o-Xylene	106	16.670	16.658	(1.047)	28804	2.00000	2.0294
	62 Styrene	104	16.670	16.668	(1.047)	47598	2.00000	1.9972
	63 Bromoform	173	16.926	16.924	(1.063)	11589	2.00000	1.9595
	64 Isopropylbenzene	105	17.064	17.062	(0.916)	75110	2.00000	2.2848
	65 Cyclohexanone	55	17.212	17.199	(0.924)	21231	20.0000	20.2312
	66 Bromofluorobenzene	95	17.271	17.268	(0.928)	1092452	50.0000	53.9429
	67 1,1,2,2-Tetrachloroethane	83	17.359	17.357	(0.932)	28449	2.00000	2.3159
	68 1,2,3-Trichloropropane	75	17.438	17.436	(0.937)	22081	2.00000	2.2532
	69 Bromobenzene	156	17.487	17.485	(0.939)	17296	2.00000	2.2203
	70 Propylbenzene	91	17.527	17.524	(0.941)	84720	2.00000	2.1433
	71 2-Chlorotoluene	91	17.675	17.672	(0.949)	62215	2.00000	2.2986
	72 1,3,5-Trimethylbenzene	105	17.704	17.702	(0.951)	43512	2.00000	2.0373
	73 4-Chlorotoluene	91	17.793	17.790	(0.956)	54136	2.00000	2.2422
	74 tert-Butylbenzene	119	18.098	18.105	(0.972)	45830	2.00000	2.0451(M)
	75 1,2,4-Trimethylbenzene	105	18.157	18.145	(0.975)	36128	2.00000	1.8881
	76 sec-Butylbenzene	105	18.354	18.352	(0.986)	59704	2.00000	1.9362
	77 para-Isopropyl Toluene	119	18.492	18.490	(0.993)	34498	2.00000	1.7511

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF14.D
Report Date: 16-May-2006 09:14

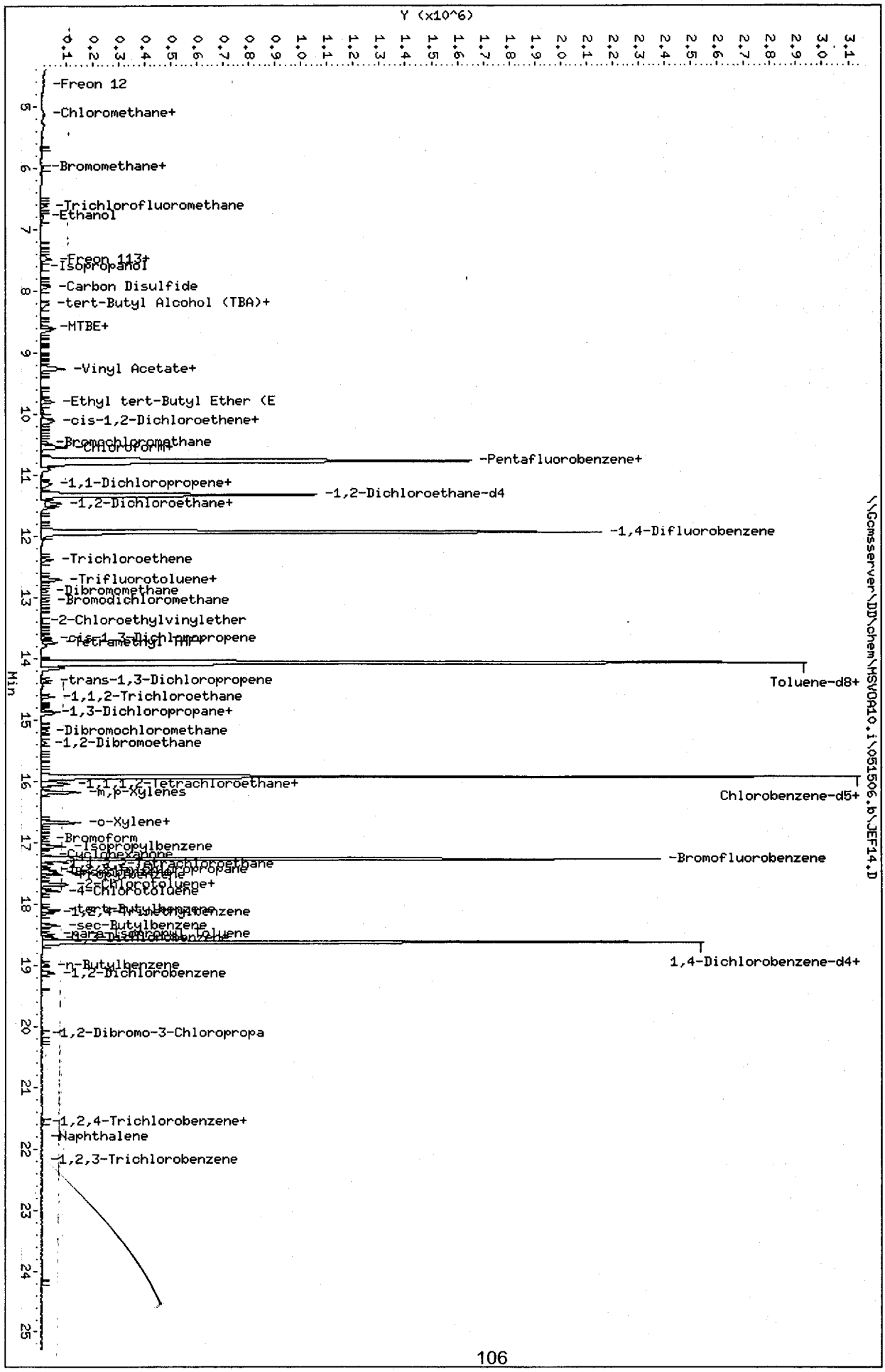
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
78 1,3-Dichlorobenzene	146	18.561	18.549	(0.997)	29329	2.00000	2.1329
* 79 1,4-Dichlorobenzene-d4	152	18.620	18.618	(1.000)	767247	50.0000	
80 1,4-Dichlorobenzene	146	18.650	18.647	(1.002)	29220	2.00000	2.1751
81 n-Butylbenzene	91	18.994	18.992	(1.020)	24336	2.00000	2.1571
82 1,2-Dichlorobenzene	146	19.132	19.120	(1.028)	26343	2.00000	2.0564
83 1,2-Dibromo-3-Chloropropane	75	20.107	20.105	(1.080)	3698	2.00000	2.0808
84 1,2,4-Trichlorobenzene	180	21.358	21.336	(1.147)	2134	2.00000	2.5625
85 Hexachlorobutadiene	225	21.555	21.553	(1.158)	2641	2.00000	2.2933
86 Naphthalene	128	21.801	21.789	(1.171)	7771	2.00000	1.6817
87 1,2,3-Trichlorobenzene	180	22.195	22.203	(1.192)	641	2.00000	2.0051

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Ccmsserver\DD\chem\MSVOA10.i\051506.b\JEF14.D
Date : 15-MAY-2006 19:32
Client ID: DYNA P&T
Sample Info: ICAL,S3321,0.002/500,S3255,0.002/500
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOA
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF15.D
Report Date: 16-May-2006 09:15

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF15.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 15-MAY-2006 20:07 MS Autotune Date: 27-JUL-1998 21:19
Operator : VOA Inst ID: MSVOA10.i
Smp Info : ICAL,S3321,0.005/500,S3255,0.005/500
Misc Info : S2864,0.0025/500,5PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\826GOX10.m
Meth Date : 16-May-2006 09:15 Erik Quant Type: ISTD
Cal Date : 15-MAY-2006 20:07 Cal File: JEF15.D
Als bottle: 15 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.638	4.632	(0.432)	48455	5.00000	5.0152(M)
2 Chloromethane	50	5.091	5.105	(0.474)	69716	5.00000	5.2282
3 Vinyl Chloride	62	5.288	5.292	(0.492)	50478	5.00000	5.1231
4 Bromomethane	94	5.967	5.972	(0.555)	31418	5.00000	4.7340
5 Chloroethane	64	6.145	6.149	(0.572)	42030	5.00000	4.9012
6 Trichlorofluoromethane	101	6.608	6.612	(0.615)	70327	5.00000	5.1534
7 Ethanol	45	6.785	6.760	(0.632)	60879	500.000	448.7984
8 Freon 113	101	7.435	7.439	(0.692)	33302	5.00000	4.2646
9 Acetone	43	7.464	7.459	(0.695)	20035	5.00000	6.0080
10 1,1-Dichloroethene	96	7.474	7.479	(0.696)	39005	5.00000	4.9340
11 Isopropanol	45	7.592	7.577	(0.707)	32887	50.0000	51.0279
12 Carbon Disulfide	76	7.917	7.922	(0.737)	173135	5.00000	4.9854
13 Methylene Chloride	84	8.193	8.188	(0.763)	56614	5.00000	5.1937
14 tert-Butyl Alcohol (TBA)	59	8.203	8.198	(0.764)	43544	50.0000	50.9564
15 MTBE	73	8.577	8.571	(0.798)	146686	5.00000	5.2726
16 trans-1,2-Dichloroethene	96	8.627	8.621	(0.803)	48936	5.00000	5.1560
18 Vinyl Acetate	43	9.218	9.212	(0.858)	198530	5.00000	5.3927
19 1,1-Dichloroethane	63	9.247	9.242	(0.861)	95949	5.00000	5.4224
20 Isopropyl Ether (DIPE)	45	9.257	9.251	(0.862)	199374	5.00000	5.4027
21 Ethyl tert-Butyl Ether (ETBE)	59	9.799	9.793	(0.912)	161498	5.00000	5.2871
22 2-Butanone	43	10.035	10.029	(0.934)	28138	5.00000	5.3100
23 cis-1,2-Dichloroethene	96	10.104	10.098	(0.940)	56747	5.00000	5.3962

5/16/06

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF15.D
Report Date: 16-May-2006 09:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	24 2,2-Dichloropropane	77	10.124	10.128	(0.942)	58741	5.00000	5.0839
	25 Bromochloromethane	128	10.458	10.463	(0.973)	26219	5.00000	5.2088
	26 Chloroform	83	10.527	10.522	(0.980)	89197	5.00000	5.3985
	27 Tetrahydrofuran	42	10.537	10.532	(0.981)	166591	50.0000	53.3904
*	28 Pentafluorobenzene	168	10.744	10.748	(1.000)	1219543	50.0000	
	29 Dibromofluoromethane	113	10.774	10.768	(1.003)	846411	50.0000	50.4151
	30 1,1,1-Trichloroethane	97	10.902	10.896	(1.015)	57239	5.00000	4.9742
	31 1,1-Dichloropropene	75	11.138	11.133	(0.934)	60069	5.00000	4.8340
	32 Carbon Tetrachloride	117	11.177	11.172	(0.937)	42346	5.00000	4.6489
	33 1,2-Dichloroethane-d4	65	11.315	11.310	(0.949)	972877	50.0000	50.8972
	34 1,2-Dichloroethane	62	11.434	11.428	(0.959)	63528	5.00000	5.1302
	35 Benzene	78	11.463	11.467	(0.961)	200407	5.00000	5.2300
	36 Methyl tert-Amyl Ether (TAME)	73	11.522	11.517	(0.966)	138944	5.00000	5.2299
*	37 1,4-Difluorobenzene	114	11.926	11.930	(1.000)	2491471	50.0000	
	38 Trichloroethene	95	12.389	12.383	(1.039)	48975	5.00000	5.1451
	39 Trifluorotoluene	146	12.694	12.699	(1.064)	49712	5.00000	4.7793
	40 1,2-Dichloropropane	63	12.704	12.708	(1.065)	60763	5.00000	5.3776
	41 Dibromomethane	93	12.881	12.876	(1.080)	36615	5.00000	5.2208
	42 Bromodichloromethane	83	13.049	13.043	(1.094)	63848	5.00000	5.2101
	43 2-Chloroethylvinylether	63	13.374	13.644	(1.121)	10569	5.00000	4.9590
	44 cis-1,3-Dichloropropene	75	13.649	13.654	(1.145)	81978	5.00000	5.0213
	45 Tetramethyl THF	43	13.738	13.733	(1.152)	114658	5.00000	5.2102
	46 4-Methyl-2-Pentanone	43	13.787	13.782	(1.156)	62676	5.00000	5.0676
	47 Toluene-d8	98	14.063	14.058	(1.179)	2599555	50.0000	49.0524
	48 Toluene	92	14.152	14.156	(1.187)	112615	5.00000	5.1234
	49 trans-1,3-Dichloropropene	75	14.359	14.353	(1.204)	71530	5.00000	5.1020
	50 1,1,2-Trichloroethane	85	14.625	14.619	(1.226)	27199	5.00000	5.2854
	51 1,3-Dichloropropane	76	14.861	14.855	(0.933)	83401	5.00000	5.2332
	52 2-Hexanone	43	14.881	14.865	(0.934)	36987	5.00000	5.2009
	53 Tetrachloroethene	166	14.900	14.895	(0.936)	35151	5.00000	4.7389
	54 Dibromochloromethane	129	15.176	15.180	(0.953)	45815	5.00000	5.1301
	55 1,2-Dibromoethane	107	15.373	15.368	(1.289)	50377	5.00000	4.9998
*	56 Chlorobenzene-d5	117	15.925	15.919	(1.000)	2214104	50.0000	
	57 Chlorobenzene	112	15.964	15.958	(1.002)	126556	5.00000	5.1517
	58 1,1,1,2-Tetrachloroethane	131	16.023	16.018	(1.006)	40330	5.00000	5.1548
	59 Ethylbenzene	91	16.053	16.047	(1.008)	211042	5.00000	5.0572
	60 m,p-Xylenes	106	16.181	16.175	(1.016)	149673	10.0000	10.1443
	61 o-Xylene	106	16.663	16.658	(1.046)	73034	5.00000	5.0842
	62 Styrene	104	16.673	16.668	(1.047)	120736	5.00000	5.0054
	63 Bromoform	173	16.929	16.924	(1.063)	29658	5.00000	4.9548
	64 Isopropylbenzene	105	17.067	17.062	(0.916)	181019	5.00000	5.1087
	65 Cyclohexanone	55	17.205	17.199	(0.924)	60762	50.0000	50.5517
	66 Bromofluorobenzene	95	17.264	17.268	(0.927)	1112131	50.0000	50.9465
	67 1,1,2,2-Tetrachloroethane	83	17.362	17.357	(0.932)	72200	5.00000	5.4528
	68 1,2,3-Trichloropropane	75	17.441	17.436	(0.937)	54959	5.00000	5.2029
	69 Bromobenzene	156	17.491	17.485	(0.939)	44341	5.00000	5.2808
	70 Propylbenzene	91	17.530	17.524	(0.941)	211442	5.00000	4.9628
	71 2-Chlorotoluene	91	17.678	17.672	(0.949)	152459	5.00000	5.2258
	72 1,3,5-Trimethylbenzene	105	17.697	17.702	(0.950)	113588	5.00000	4.9342
	73 4-Chlorotoluene	91	17.796	17.790	(0.956)	134414	5.00000	5.1650
	74 tert-Butylbenzene	119	18.101	18.105	(0.972)	119554	5.00000	4.9495
	75 1,2,4-Trimethylbenzene	105	18.150	18.145	(0.975)	101369	5.00000	4.9148
	76 sec-Butylbenzene	105	18.357	18.352	(0.986)	154782	5.00000	4.6570
	77 para-Isopropyl Toluene	119	18.495	18.490	(0.993)	95482	5.00000	4.4964

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF15.D
Report Date: 16-May-2006 09:15

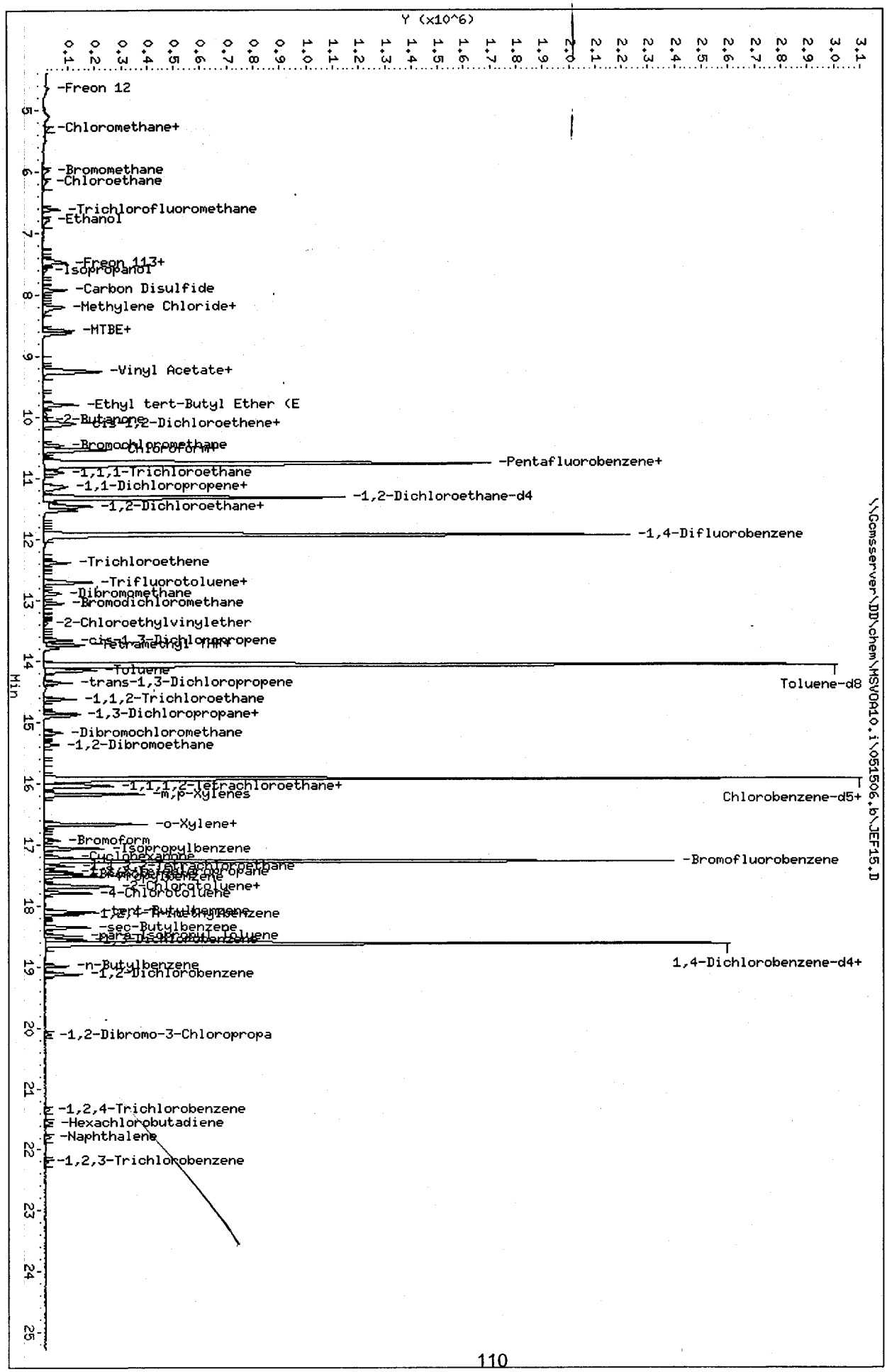
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
78 1,3-Dichlorobenzene	146	18.554	18.549	(0.996)	76350	5.00000	5.1513
* 79 1,4-Dichlorobenzene-d4	152	18.623	18.618	(1.000)	827006	50.0000	
80 1,4-Dichlorobenzene	146	18.653	18.647	(1.002)	73838	5.00000	5.0994
81 n-Butylbenzene	91	18.988	18.992	(1.020)	68735	5.00000	4.3580
82 1,2-Dichlorobenzene	146	19.125	19.120	(1.027)	70997	5.00000	5.1418
83 1,2-Dibromo-3-Chloropropane	75	20.100	20.105	(1.079)	10157	5.00000	5.3023
84 1,2,4-Trichlorobenzene	180	21.351	21.336	(1.146)	9872	5.00000	4.5773
85 Hexachlorobutadiene	225	21.558	21.553	(1.158)	7696	5.00000	4.2042
86 Naphthalene	128	21.785	21.789	(1.170)	29966	5.00000	4.6230
87 1,2,3-Trichlorobenzene	180	22.198	22.203	(1.192)	6586	5.00000	4.1944

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF15.D
Date : 15-MAY-2006 20:07
Client ID: DYNA P&T
Sample Info: ICAL,S3321,0.005/500,S3255,0.005/500
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOA
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF16.D
Report Date: 16-May-2006 09:15

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF16.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 15-MAY-2006 20:42 MS Autotune Date: 27-JUL-1998 21:19
Operator : VOA Inst ID: MSVOA10.i
Smp Info : ICAL,S3321,0.002/100,S3255,0.002/100
Misc Info : S2864,0.001/100,10PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\826GOX10.m
Meth Date : 16-May-2006 09:15 Erik Quant Type: ISTD
Cal Date : 15-MAY-2006 20:42 Cal File: JEF16.D
Als bottle: 16 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.633	4.632	(0.431)	91465	10.0000	9.5040
2 Chloromethane	50	5.086	5.105	(0.473)	128858	10.0000	9.7014
3 Vinyl Chloride	62	5.293	5.292	(0.492)	93764	10.0000	9.5535
4 Bromomethane	94	5.972	5.972	(0.556)	61618	10.0000	9.3208
5 Chloroethane	64	6.150	6.149	(0.572)	86797	10.0000	10.1613
6 Trichlorofluoromethane	101	6.612	6.612	(0.615)	128909	10.0000	9.4832
7 Ethanol	45	6.770	6.760	(0.630)	125500	1000.00	928.8064
8 Freon 113	101	7.440	7.439	(0.692)	86564	10.0000	11.1287
9 Acetone	43	7.469	7.459	(0.695)	33267	10.0000	10.0150
10 1,1-Dichloroethene	96	7.479	7.479	(0.696)	78489	10.0000	9.9675
11 Isopropanol	45	7.588	7.577	(0.706)	62437	100.000	97.2575
12 Carbon Disulfide	76	7.922	7.922	(0.737)	349915	10.0000	10.1153
13 Methylene Chloride	84	8.198	8.188	(0.763)	109741	10.0000	10.1070
14 tert-Butyl Alcohol (TBA)	59	8.208	8.198	(0.764)	84444	100.000	99.2057
15 MTBE	73	8.582	8.571	(0.798)	278455	10.0000	10.0482
16 trans-1,2-Dichloroethene	96	8.631	8.621	(0.803)	94435	10.0000	9.9888
18 Vinyl Acetate	43	9.222	9.212	(0.858)	388011	10.0000	10.5810
19 1,1-Dichloroethane	63	9.242	9.242	(0.860)	177627	10.0000	10.0777
20 Isopropyl Ether (DIPE)	45	9.252	9.251	(0.861)	377556	10.0000	10.2712
21 Ethyl tert-Butyl Ether (ETBE)	59	9.794	9.793	(0.911)	308451	10.0000	10.1375
22 2-Butanone	43	10.040	10.029	(0.934)	48799	10.0000	9.2450
23 cis-1,2-Dichloroethene	96	10.099	10.098	(0.940)	104156	10.0000	9.9433

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF16.D
Report Date: 16-May-2006 09:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	24 2,2-Dichloropropane	77	10.128	10.128	(0.942)	115099	10.0000	10.0007
	25 Bromochloromethane	128	10.463	10.463	(0.973)	52283	10.0000	10.4276
	26 Chloroform	83	10.522	10.522	(0.979)	165011	10.0000	10.0262
	27 Tetrahydrofuran	42	10.542	10.532	(0.981)	308879	100.000	99.3798
*	28 Pentafluorobenzene	168	10.749	10.748	(1.000)	1214785	50.0000	
	29 Dibromofluoromethane	113	10.769	10.768	(1.002)	845189	50.0000	50.5395
	30 1,1,1-Trichloroethane	97	10.907	10.896	(1.015)	117995	10.0000	10.2942
	31 1,1-Dichloropropene	75	11.133	11.133	(0.933)	131300	10.0000	10.6006
	32 Carbon Tetrachloride	117	11.182	11.172	(0.937)	93755	10.0000	10.3261
	33 1,2-Dichloroethane-d4	65	11.320	11.310	(0.949)	953833	50.0000	50.0624
	34 1,2-Dichloroethane	62	11.429	11.428	(0.958)	126705	10.0000	10.2652
	35 Benzene	78	11.468	11.467	(0.961)	381116	10.0000	9.9782
	36 Methyl tert-Amyl Ether (TAME)	73	11.527	11.517	(0.966)	267046	10.0000	10.0842
*	37 1,4-Difluorobenzene	114	11.931	11.930	(1.000)	2483431	50.0000	
	38 Trichloroethene	95	12.384	12.383	(1.038)	95030	10.0000	10.0159
	39 Trifluorotoluene	146	12.699	12.699	(1.064)	112675	10.0000	10.8676
	40 1,2-Dichloropropane	63	12.709	12.708	(1.065)	113616	10.0000	10.0878
	41 Dibromomethane	93	12.886	12.876	(1.080)	69715	10.0000	9.9726
	42 Bromodichloromethane	83	13.054	13.043	(1.094)	125813	10.0000	10.2999
	43 2-Chloroethylvinylether	63	13.379	13.644	(1.121)	21285	10.0000	8.4039(H)
	44 cis-1,3-Dichloropropene	75	13.654	13.654	(1.144)	164081	10.0000	10.0828
	45 Tetramethyl THF	43	13.733	13.733	(1.151)	219084	10.0000	9.9878
	46 4-Methyl-2-Pentanone	43	13.792	13.782	(1.156)	128398	10.0000	10.4151
	47 Toluene-d8	98	14.058	14.058	(1.178)	2640993	50.0000	49.9956
	48 Toluene	92	14.157	14.156	(1.187)	223662	10.0000	10.2084
	49 trans-1,3-Dichloropropene	75	14.354	14.353	(1.203)	143361	10.0000	10.2586
	50 1,1,2-Trichloroethane	85	14.620	14.619	(1.225)	54108	10.0000	10.5485
	51 1,3-Dichloropropane	76	14.856	14.855	(0.933)	164976	10.0000	10.3447
	52 2-Hexanone	43	14.876	14.865	(0.934)	70949	10.0000	9.9696
	53 Tetrachloroethene	166	14.895	14.895	(0.936)	75802	10.0000	10.2122
	54 Dibromochloromethane	129	15.181	15.180	(0.954)	90971	10.0000	10.1795
	55 1,2-Dibromoethane	107	15.368	15.368	(1.288)	100880	10.0000	10.0446
*	56 Chlorobenzene-d5	117	15.920	15.919	(1.000)	2215636	50.0000	
	57 Chlorobenzene	112	15.959	15.958	(1.002)	246281	10.0000	10.0185
	58 1,1,1,2-Tetrachloroethane	131	16.018	16.018	(1.006)	79753	10.0000	10.1866
	59 Ethylbenzene	91	16.048	16.047	(1.008)	422192	10.0000	10.1100
	60 m,p-Xylenes	106	16.176	16.175	(1.016)	305429	20.0000	20.6866
	61 o-Xylene	106	16.658	16.658	(1.046)	147606	10.0000	10.2684
	62 Styrene	104	16.668	16.668	(1.047)	253892	10.0000	10.5185
	63 Bromoform	173	16.934	16.924	(1.064)	60291	10.0000	10.0656
	64 Isopropylbenzene	105	17.062	17.062	(0.916)	379243	10.0000	10.2964
	65 Cyclohexanone	55	17.210	17.199	(0.924)	69426	100.000	55.3760
	66 Bromofluorobenzene	95	17.269	17.268	(0.928)	1128223	50.0000	49.7203
	67 1,1,2,2-Tetrachloroethane	83	17.357	17.357	(0.932)	140121	10.0000	10.1804
	68 1,2,3-Trichloropropane	75	17.446	17.436	(0.937)	119543	10.0000	10.8872
	69 Bromobenzene	156	17.486	17.485	(0.939)	90186	10.0000	10.3328
	70 Propylbenzene	91	17.525	17.524	(0.941)	455497	10.0000	10.2851
	71 2-Chlorotoluene	91	17.683	17.672	(0.950)	311019	10.0000	10.2557
	72 1,3,5-Trimethylbenzene	105	17.702	17.702	(0.951)	248452	10.0000	10.3827
	73 4-Chlorotoluene	91	17.791	17.790	(0.956)	273231	10.0000	10.1003
	74 tert-Butylbenzene	119	18.106	18.105	(0.972)	258458	10.0000	10.2936(M)
	75 1,2,4-Trimethylbenzene	105	18.145	18.145	(0.975)	219664	10.0000	10.2458
	76 sec-Butylbenzene	105	18.352	18.352	(0.986)	364549	10.0000	10.5517
	77 para-Isopropyl Toluene	119	18.490	18.490	(0.993)	225711	10.0000	10.2254

b 5/16/06

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF16.D
Report Date: 16-May-2006 09:15

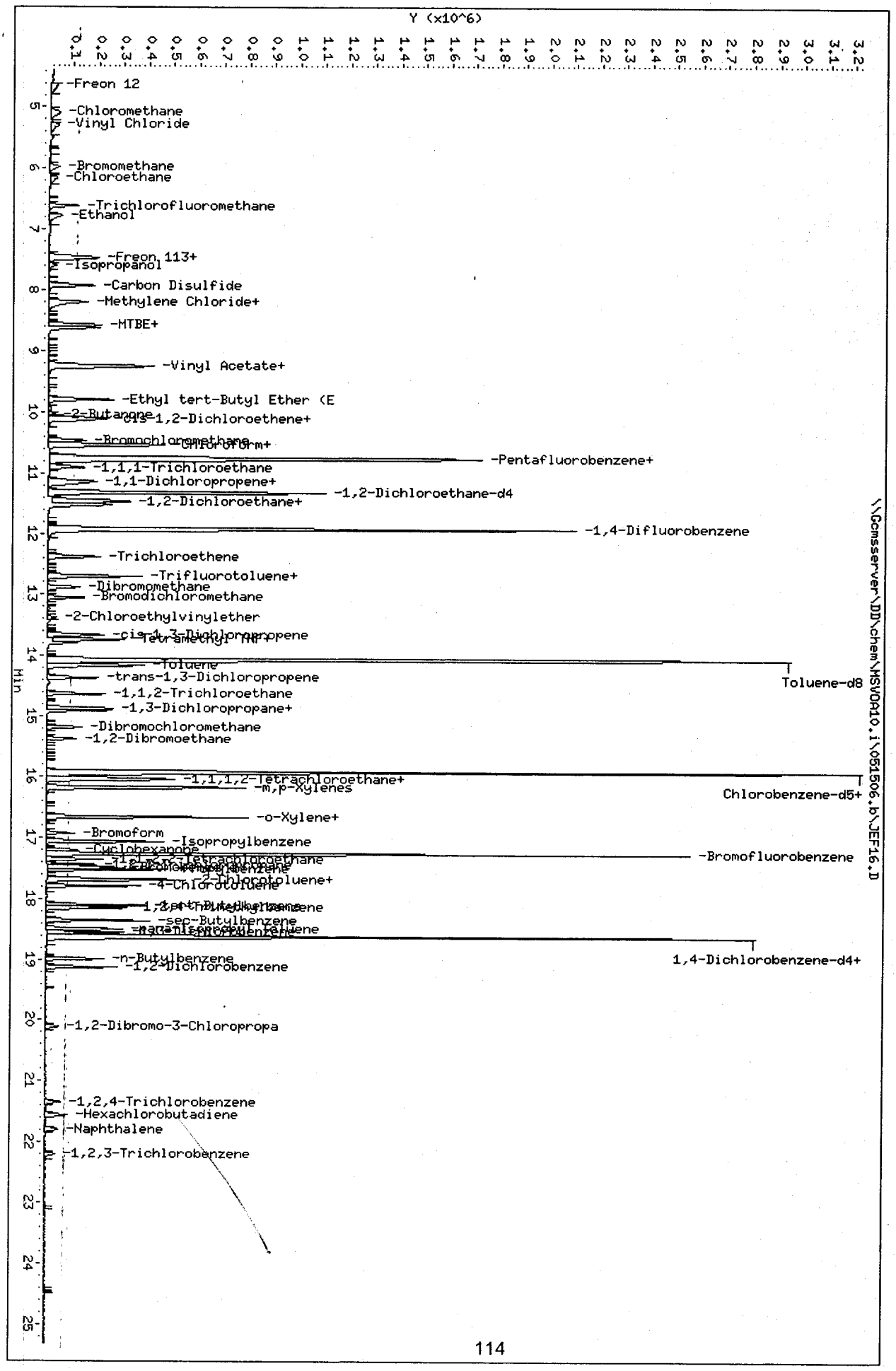
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
78 1,3-Dichlorobenzene	146	18.549	18.549	(0.996)	156357	10.0000	10.1486
* 79 1,4-Dichlorobenzene-d4	152	18.618	18.618	(1.000)	859662	50.0000	
80 1,4-Dichlorobenzene	146	18.648	18.647	(1.002)	149740	10.0000	9.9485
81 n-Butylbenzene	91	18.992	18.992	(1.020)	174268	10.0000	9.4444
82 1,2-Dichlorobenzene	146	19.130	19.120	(1.028)	149811	10.0000	10.4375
83 1,2-Dibromo-3-Chloropropane	75	20.105	20.105	(1.080)	19791	10.0000	9.9391
84 1,2,4-Trichlorobenzene	180	21.346	21.336	(1.147)	27047	10.0000	8.8199
85 Hexachlorobutadiene	225	21.553	21.553	(1.158)	22728	10.0000	9.7753
86 Naphthalene	128	21.789	21.789	(1.170)	68417	10.0000	9.3404
87 1,2,3-Trichlorobenzene	180	22.203	22.203	(1.193)	20492	10.0000	8.9134

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\Ccmsserver\DD\chem\MSVOA10.i\051506.b\JEF16.D
Date : 15-MAY-2006 20:42
Client ID: DYNA P&T
Sample Info: ICAL,S3321,0.002/100,S3255,0.002/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOA
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF17.D
Report Date: 16-May-2006 09:15

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF17.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 15-MAY-2006 21:16 MS Autotune Date: 27-JUL-1998 21:19
Operator : VOA Inst ID: MSVOA10.i
Smp Info : ICAL,S3321,0.004/100,S3255,0.004/100
Misc Info : S2864,0:002/100,20PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\826GOX10.m
Meth Date : 16-May-2006 09:15 Erik Quant Type: ISTD
Cal Date : 15-MAY-2006 21:16 Cal File: JEF17.D
Als bottle: 17 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.632	4.632	(0.431)	195075	20.0000	20.1532
2 Chloromethane	50	5.105	5.105	(0.475)	250652	20.0000	18.7623
3 Vinyl Chloride	62	5.292	5.292	(0.492)	186993	20.0000	18.9428
4 Bromomethane	94	5.982	5.972	(0.557)	123856	20.0000	18.6276
5 Chloroethane	64	6.149	6.149	(0.572)	166789	20.0000	19.4135
6 Trichlorofluoromethane	101	6.602	6.612	(0.614)	261276	20.0000	19.1100
7 Ethanol	45	6.770	6.760	(0.630)	282923	2000.00	2081.8090
8 Freon 113	101	7.439	7.439	(0.692)	165512	20.0000	21.1557
9 Acetone	43	7.469	7.459	(0.695)	69345	20.0000	20.7561
10 1,1-Dichloroethene	96	7.479	7.479	(0.696)	153959	20.0000	19.4390
11 Isopropanol	45	7.587	7.577	(0.706)	129736	200.000	200.9245
12 Carbon Disulfide	76	7.922	7.922	(0.737)	677906	20.0000	19.4839
13 Methylene Chloride	84	8.188	8.188	(0.762)	214062	20.0000	19.6013
14 tert-Butyl Alcohol (TBA)	59	8.198	8.198	(0.763)	171783	200.000	200.6501
15 MTBE	73	8.582	8.571	(0.798)	540521	20.0000	19.3926
16 trans-1,2-Dichloroethene	96	8.621	8.621	(0.802)	184062	20.0000	19.3570
18 Vinyl Acetate	43	9.212	9.212	(0.857)	672644	20.0000	18.2373
19 1,1-Dichloroethane	63	9.242	9.242	(0.860)	349690	20.0000	19.7255
20 Isopropyl Ether (DIPE)	45	9.251	9.251	(0.861)	722305	20.0000	19.5368
21 Ethyl tert-Butyl Ether (ETBE)	59	9.793	9.793	(0.911)	600825	20.0000	19.6330
22 2-Butanone	43	10.029	10.029	(0.933)	103763	20.0000	19.5448
23 cis-1,2-Dichloroethene	96	10.098	10.098	(0.940)	203978	20.0000	19.3608

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF17.D
Report Date: 16-May-2006 09:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	24 2,2-Dichloropropane	77	10.128	10.128	(0.942)	221651	20.0000	19.1479
	25 Bromochloromethane	128	10.463	10.463	(0.973)	99731	20.0000	19.7763
	26 Chloroform	83	10.532	10.522	(0.980)	316433	20.0000	19.1160
	27 Tetrahydrofuran	42	10.542	10.532	(0.981)	607019	200.000	194.1795
*	28 Pentafluorobenzene	168	10.748	10.748	(1.000)	1221823	50.0000	
	29 Dibromofluoromethane	113	10.768	10.768	(1.002)	840697	50.0000	49.9813
	30 1,1,1-Trichloroethane	97	10.896	10.896	(1.014)	224426	20.0000	19.4668
	31 1,1-Dichloropropene	75	11.133	11.133	(0.933)	246612	20.0000	19.8017
	32 Carbon Tetrachloride	117	11.172	11.172	(0.936)	180445	20.0000	19.7655
	33 1,2-Dichloroethane-d4	65	11.320	11.310	(0.949)	949468	50.0000	49.5613
	34 1,2-Dichloroethane	62	11.428	11.428	(0.958)	243127	20.0000	19.5898
	35 Benzene	78	11.467	11.467	(0.961)	730524	20.0000	19.0218
	36 Methyl tert-Amyl Ether (TAME)	73	11.517	11.517	(0.965)	520031	20.0000	19.5303
*	37 1,4-Difluorobenzene	114	11.930	11.930	(1.000)	2497064	50.0000	
	38 Trichloroethene	95	12.383	12.383	(1.038)	188070	20.0000	19.7138
	39 Trifluorotoluene	146	12.698	12.699	(1.064)	214082	20.0000	20.5357
	40 1,2-Dichloropropane	63	12.708	12.708	(1.065)	220929	20.0000	19.5089
	41 Dibromomethane	93	12.886	12.876	(1.080)	139780	20.0000	19.8862
	42 Bromodichloromethane	83	13.053	13.043	(1.094)	241525	20.0000	19.6650
	43 2-Chloroethylvinylether	63	13.378	13.644	(1.121)	50236	20.0000	17.5937(H)
	44 cis-1,3-Dichloropropene	75	13.654	13.654	(1.144)	317570	20.0000	19.4082
	45 Tetramethyl THF	43	13.733	13.733	(1.151)	430700	20.0000	19.5280
	46 4-Methyl-2-Pentanone	43	13.782	13.782	(1.155)	253165	20.0000	20.4236
	47 Toluene-d8	98	14.058	14.058	(1.178)	2679313	50.0000	50.4441
	48 Toluene	92	14.156	14.156	(1.187)	430646	20.0000	19.5483
	49 trans-1,3-Dichloropropene	75	14.353	14.353	(1.203)	281732	20.0000	20.0500
	50 1,1,2-Trichloroethane	85	14.619	14.619	(1.225)	103511	20.0000	20.0696
	51 1,3-Dichloropropane	76	14.855	14.855	(0.933)	313516	20.0000	19.6194
	52 2-Hexanone	43	14.865	14.865	(0.934)	144815	20.0000	20.3085
	53 Tetrachloroethene	166	14.895	14.895	(0.936)	147890	20.0000	19.8842
	54 Dibromochloromethane	129	15.180	15.180	(0.954)	175924	20.0000	19.6462
	55 1,2-Dibromoethane	107	15.368	15.368	(1.288)	197698	20.0000	19.5774
*	56 Chlorobenzene-d5	117	15.919	15.919	(1.000)	2220083	50.0000	
	57 Chlorobenzene	112	15.958	15.958	(1.002)	480754	20.0000	19.5175
	58 1,1,1,2-Tetrachloroethane	131	16.018	16.018	(1.006)	152958	20.0000	19.4978
	59 Ethylbenzene	91	16.047	16.047	(1.008)	815951	20.0000	19.5000
	60 m,p-Xylenes	106	16.175	16.175	(1.016)	596812	40.0000	40.3410
	61 o-Xylene	106	16.658	16.658	(1.046)	294265	20.0000	20.4299
	62 Styrene	104	16.668	16.668	(1.047)	498905	20.0000	20.6278
	63 Bromoform	173	16.924	16.924	(1.063)	114477	20.0000	19.0736
	64 Isopropylbenzene	105	17.061	17.062	(0.916)	738612	20.0000	19.2318
	65 Cyclohexanone	55	17.199	17.199	(0.924)	309321	200.000	230.3577
	66 Bromofluorobenzene	95	17.268	17.268	(0.928)	1146028	50.0000	48.4362
	67 1,1,2,2-Tetrachloroethane	83	17.357	17.357	(0.932)	265708	20.0000	18.5142
	68 1,2,3-Trichloropropane	75	17.436	17.436	(0.937)	234792	20.0000	20.5075
	69 Bromobenzene	156	17.485	17.485	(0.939)	177135	20.0000	19.4634
	70 Propylbenzene	91	17.524	17.524	(0.941)	899549	20.0000	19.4797
	71 2-Chlorotoluene	91	17.682	17.672	(0.950)	605223	20.0000	19.1395
	72 1,3,5-Trimethylbenzene	105	17.702	17.702	(0.951)	492454	20.0000	19.7365
	73 4-Chlorotoluene	91	17.790	17.790	(0.956)	536109	20.0000	19.0062
	74 tert-Butylbenzene	119	18.105	18.105	(0.972)	509733	20.0000	19.4696(M)
	75 1,2,4-Trimethylbenzene	105	18.145	18.145	(0.975)	445293	20.0000	19.9191
	76 sec-Butylbenzene	105	18.352	18.352	(0.986)	726364	20.0000	20.1631
	77 para-Isopropyl Toluene	119	18.490	18.490	(0.993)	477867	20.0000	20.7621

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Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF17.D
Report Date: 16-May-2006 09:15

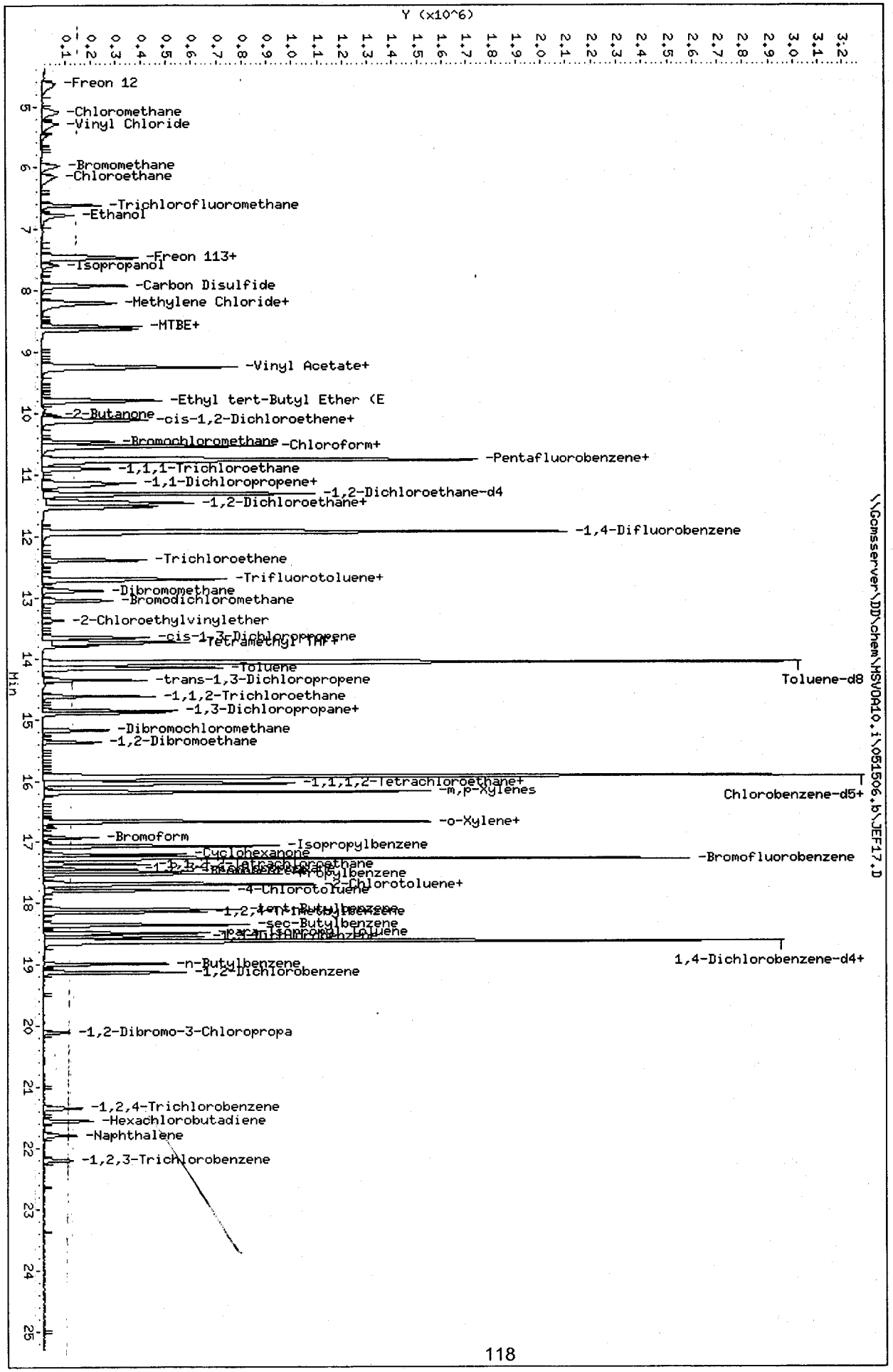
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	78 1,3-Dichlorobenzene	146	18.549	18.549	(0.996)	311784	20.0000	19.4079
*	79 1,4-Dichlorobenzene-d4	152	18.618	18.618	(1.000)	896380	50.0000	
	80 1,4-Dichlorobenzene	146	18.647	18.647	(1.002)	306522	20.0000	19.5308
	81 n-Butylbenzene	91	18.992	18.992	(1.020)	388094	20.0000	19.0962
	82 1,2-Dichlorobenzene	146	19.130	19.120	(1.028)	296792	20.0000	19.8309
	83 1,2-Dibromo-3-Chloropropane	75	20.105	20.105	(1.080)	40553	20.0000	19.5317
	84 1,2,4-Trichlorobenzene	180	21.346	21.336	(1.147)	70361	20.0000	18.7359
	85 Hexachlorobutadiene	225	21.553	21.553	(1.158)	50077	20.0000	19.3014
	86 Naphthalene	128	21.789	21.789	(1.170)	170668	20.0000	20.4522
	87 1,2,3-Trichlorobenzene	180	22.203	22.203	(1.193)	59934	20.0000	20.6191

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF17.D
Date : 15-MAY-2006 21:16
Client ID: DYNA P&T
Sample Info: ICAL,S3321,0.004/100,S3255,0.004/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOA
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF18.D
Report Date: 16-May-2006 09:15

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF18.D
Lab Smp Id:
Client Smp ID: DYNA P&T
Inj Date : 15-MAY-2006 21:51
MS Autotune Date: 27-JUL-1998 21:19
Operator : VOA
Inst ID: MSVOA10.i
Smp Info : ICAL,S3321,0.01/100,S3255,0.01/100
Misc Info : S2864,0:005/100,50PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\826GOX10.m
Meth Date : 16-May-2006 09:15 Erik
Quant Type: ISTD
Cal Date : 15-MAY-2006 21:51
Cal File: JEF18.D
Als bottle: 18
Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.632	4.632	(0.431)	522747	50.0000	53.3765
2 Chloromethane	50	5.105	5.105	(0.475)	646670	50.0000	47.8423
3 Vinyl Chloride	62	5.292	5.292	(0.492)	505511	50.0000	50.6134
4 Bromomethane	94	5.971	5.972	(0.556)	355767	50.0000	52.8835
5 Chloroethane	64	6.149	6.149	(0.572)	425986	50.0000	49.0057
6 Trichlorofluoromethane	101	6.611	6.612	(0.615)	701483	50.0000	50.7101
7 Ethanol	45	6.759	6.760	(0.629)	708193	5000.00	5150.3714
8 Freon 113	101	7.439	7.439	(0.692)	456260	50.0000	57.6401
9 Acetone	43	7.458	7.459	(0.694)	165809	50.0000	49.0516
10 1,1-Dichloroethene	96	7.478	7.479	(0.696)	403580	50.0000	50.3632
11 Isopropanol	45	7.577	7.577	(0.705)	344374	500.000	527.1293
12 Carbon Disulfide	76	7.921	7.922	(0.737)	1747360	50.0000	49.6369
13 Methylene Chloride	84	8.187	8.188	(0.762)	535281	50.0000	48.4441
14 tert-Butyl Alcohol (TBA)	59	8.197	8.198	(0.763)	473896	500.000	547.0872
15 MTBE	73	8.571	8.571	(0.797)	1376346	50.0000	48.8053
16 trans-1,2-Dichloroethene	96	8.621	8.621	(0.802)	470285	50.0000	48.8821
18 Vinyl Acetate	43	9.212	9.212	(0.857)	1858718	50.0000	49.8085
19 1,1-Dichloroethane	63	9.241	9.242	(0.860)	850948	50.0000	47.4420
20 Isopropyl Ether (DIPE)	45	9.251	9.251	(0.861)	1800956	50.0000	48.1450
21 Ethyl tert-Butyl Ether (ETBE)	59	9.793	9.793	(0.911)	1535913	50.0000	49.6044
22 2-Butanone	43	10.029	10.029	(0.933)	268644	50.0000	50.0129
23 cis-1,2-Dichloroethene	96	10.098	10.098	(0.940)	517383	50.0000	48.5362

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF18.D
Report Date: 16-May-2006 09:15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
24 2,2-Dichloropropane	77	10.127	10.128	(0.942)	568087	50.0000	48.5044
25 Bromochloromethane	128	10.462	10.463	(0.973)	263950	50.0000	51.7311
26 Chloroform	83	10.521	10.522	(0.979)	798671	50.0000	47.6868
27 Tetrahydrofuran	42	10.531	10.532	(0.980)	1543883	500.000	488.1236
* 28 Pentafluorobenzene	168	10.748	10.748	(1.000)	1236215	50.0000	
29 Dibromofluoromethane	113	10.768	10.768	(1.002)	854470	50.0000	50.2087
30 1,1,1-Trichloroethane	97	10.896	10.896	(1.014)	594059	50.0000	50.9292
31 1,1-Dichloropropene	75	11.132	11.133	(0.933)	641121	50.0000	51.6209
32 Carbon Tetrachloride	117	11.171	11.172	(0.936)	483529	50.0000	53.1107
33 1,2-Dichloroethane-d4	65	11.309	11.310	(0.948)	953656	50.0000	49.9171
34 1,2-Dichloroethane	62	11.428	11.428	(0.958)	609600	50.0000	49.2535
35 Benzene	78	11.467	11.467	(0.961)	1814858	50.0000	47.3866
36 Methyl tert-Amyl Ether (TAME)	73	11.516	11.517	(0.965)	1322331	50.0000	49.7984
* 37 1,4-Difluorobenzene	114	11.930	11.930	(1.000)	2490200	50.0000	
38 Trichloroethene	95	12.383	12.383	(1.038)	467414	50.0000	49.1303
39 Trifluorotoluene	146	12.698	12.699	(1.064)	577250	50.0000	55.5251
40 1,2-Dichloropropane	63	12.708	12.708	(1.065)	551070	50.0000	48.7959
41 Dibromomethane	93	12.875	12.876	(1.079)	357484	50.0000	50.9988
42 Bromodichloromethane	83	13.043	13.043	(1.093)	619513	50.0000	50.5799
43 2-Chloroethylvinylether	63	13.368	13.644	(1.121)	167731	50.0000	55.1878(H)
44 cis-1,3-Dichloropropene	75	13.653	13.654	(1.144)	823577	50.0000	50.4716
45 Tetramethyl THF	43	13.732	13.733	(1.151)	1109454	50.0000	50.4415
46 4-Methyl-2-Pentanone	43	13.781	13.782	(1.155)	648901	50.0000	52.4932
47 Toluene-d8	98	14.057	14.058	(1.178)	2691731	50.0000	50.8176
48 Toluene	92	14.156	14.156	(1.187)	1078139	50.0000	49.0750
49 trans-1,3-Dichloropropene	75	14.353	14.353	(1.203)	721940	50.0000	51.5200
50 1,1,2-Trichloroethane	85	14.619	14.619	(1.225)	265113	50.0000	51.5442
51 1,3-Dichloropropane	76	14.855	14.855	(0.933)	794875	50.0000	49.0601
52 2-Hexanone	43	14.865	14.865	(0.934)	370321	50.0000	51.2207
53 Tetrachloroethene	166	14.894	14.895	(0.936)	390929	50.0000	51.8408
54 Dibromochloromethane	129	15.180	15.180	(0.954)	469532	50.0000	51.7156
55 1,2-Dibromoethane	107	15.367	15.368	(1.288)	502937	50.0000	49.9416
* 56 Chlorobenzene-d5	117	15.919	15.919	(1.000)	2250952	50.0000	
57 Chlorobenzene	112	15.958	15.958	(1.002)	1211087	50.0000	48.4932
58 1,1,1,2-Tetrachloroethane	131	16.017	16.018	(1.006)	396403	50.0000	49.8372
59 Ethylbenzene	91	16.047	16.047	(1.008)	2071859	50.0000	48.8355
60 m,p-Xylenes	106	16.175	16.175	(1.016)	1460047	100.000	97.3372
61 o-Xylene	106	16.657	16.658	(1.046)	726850	50.0000	49.7709
62 Styrene	104	16.667	16.668	(1.047)	1241810	50.0000	50.6401
63 Bromoform	173	16.923	16.924	(1.063)	301917	50.0000	49.6143
64 Isopropylbenzene	105	17.061	17.062	(0.916)	1898273	50.0000	47.6874
65 Cyclohexanone	55	17.199	17.199	(0.924)	759215	500.000	542.8900
66 Bromofluorobenzene	95	17.268	17.268	(0.928)	1154265	50.0000	47.0675
67 1,1,2,2-Tetrachloroethane	83	17.356	17.357	(0.932)	708419	50.0000	47.6246
68 1,2,3-Trichloropropane	75	17.435	17.436	(0.937)	587395	50.0000	49.4997
69 Bromobenzene	156	17.485	17.485	(0.939)	450334	50.0000	47.7411
70 Propylbenzene	91	17.524	17.524	(0.941)	2370390	50.0000	49.5244
71 2-Chlorotoluene	91	17.672	17.672	(0.949)	1526515	50.0000	46.5757
72 1,3,5-Trimethylbenzene	105	17.701	17.702	(0.951)	1303009	50.0000	50.3842
73 4-Chlorotoluene	91	17.790	17.790	(0.956)	1423118	50.0000	48.6771
74 tert-Butylbenzene	119	18.105	18.105	(0.972)	1358975	50.0000	50.0803(M)
75 1,2,4-Trimethylbenzene	105	18.144	18.145	(0.975)	1226194	50.0000	52.9205
76 sec-Butylbenzene	105	18.351	18.352	(0.986)	1998258	50.0000	53.5176
77 para-Isopropyl Toluene	119	18.489	18.490	(0.993)	1343353	50.0000	56.3114

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF18.D
Report Date: 16-May-2006 09:15

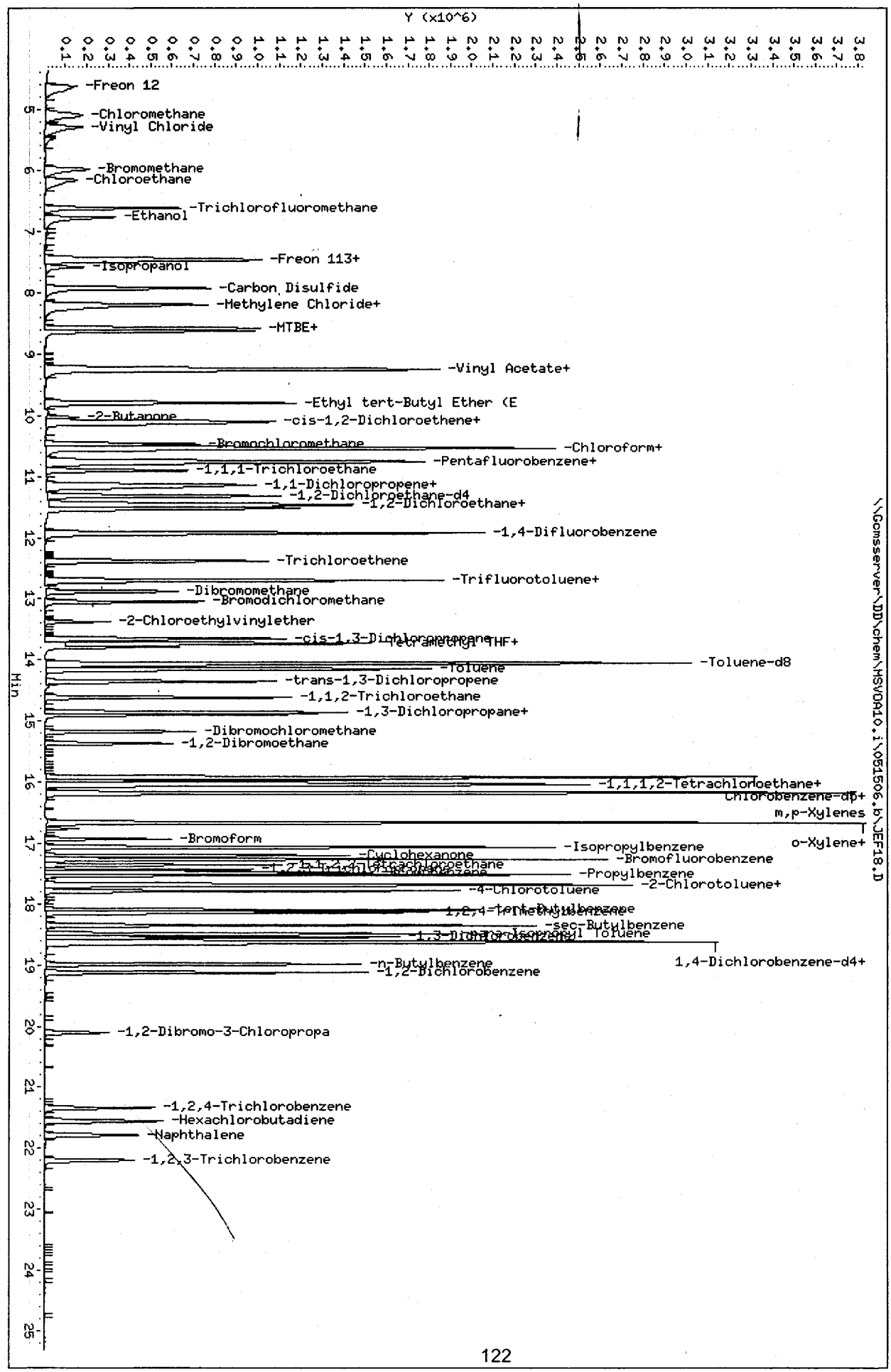
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
78 1,3-Dichlorobenzene	146	18.548	18.549	(0.996)	812042	50.0000	48.7692
* 79 1,4-Dichlorobenzene-d4	152	18.617	18.618	(1.000)	929075	50.0000	
80 1,4-Dichlorobenzene	146	18.647	18.647	(1.002)	796755	50.0000	48.9806
81 n-Butylbenzene	91	18.991	18.992	(1.020)	1143686	50.0000	51.1286
82 1,2-Dichlorobenzene	146	19.119	19.120	(1.027)	782148	50.0000	50.4222
83 1,2-Dibromo-3-Chloropropane	75	20.104	20.105	(1.080)	110680	50.0000	51.4314
84 1,2,4-Trichlorobenzene	180	21.335	21.336	(1.146)	231009	50.0000	51.0288
85 Hexachlorobutadiene	225	21.552	21.553	(1.158)	146181	50.0000	51.7332
86 Naphthalene	128	21.788	21.789	(1.170)	562257	50.0000	49.9680
87 1,2,3-Trichlorobenzene	180	22.202	22.203	(1.193)	208539	50.0000	49.9583

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF18.D
Date : 15-MAY-2006 21:51
Client ID: DYNA P&T
Sample Info: ICAL,S3321,0.01/100,S3255,0.01/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOA
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF19.D
Report Date: 16-May-2006 09:16

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF19.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 15-MAY-2006 22:26 MS Autotune Date: 27-JUL-1998 21:19
Operator : VOA Inst ID: MSVOA10.i
Smp Info : ICAL,S3321,0.015/100,S3255,0.015/100
Misc Info : S2864,0.0075/100,75PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\826GOX10.m
Meth Date : 16-May-2006 09:16 Erik Quant Type: ISTD
Cal Date : 15-MAY-2006 22:26 Cal File: JEF19.D
Als bottle: 19 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.638	4.632	(0.432)	782896	75.0000	76.7840
2 Chloromethane	50	5.091	5.105	(0.474)	946285	75.0000	67.2449
3 Vinyl Chloride	62	5.288	5.292	(0.492)	743248	75.0000	71.4787
4 Bromomethane	94	5.968	5.972	(0.555)	571126	75.0000	81.5445
5 Chloroethane	64	6.145	6.149	(0.572)	660957	75.0000	73.0353
6 Trichlorofluoromethane	101	6.608	6.612	(0.615)	1090612	75.0000	75.7279
7 Ethanol	45	6.766	6.760	(0.630)	1042362	7500.00	7281.3772
8 Freon 113	101	7.435	7.439	(0.692)	682739	75.0000	82.8467
9 Acetone	43	7.465	7.459	(0.695)	244817	75.0000	69.5656
10 1,1-Dichloroethene	96	7.475	7.479	(0.696)	631692	75.0000	75.7177
11 Isopropanol	45	7.583	7.577	(0.706)	484484	750.000	712.3187
12 Carbon Disulfide	76	7.918	7.922	(0.737)	2703869	75.0000	73.7762
13 Methylene Chloride	84	8.184	8.188	(0.762)	832193	75.0000	72.3422
14 tert-Butyl Alcohol (TBA)	59	8.194	8.198	(0.763)	670494	750.000	743.4923
15 MTBE	73	8.578	8.571	(0.798)	2134682	75.0000	72.7077
16 trans-1,2-Dichloroethene	96	8.627	8.621	(0.803)	736653	75.0000	73.5462
18 Vinyl Acetate	43	9.208	9.212	(0.857)	2738809	75.0000	70.4953(M)
19 1,1-Dichloroethane	63	9.238	9.242	(0.860)	1312449	75.0000	70.2831
20 Isopropyl Ether (DIPE)	45	9.257	9.251	(0.862)	2722068	75.0000	69.8964
21 Ethyl tert-Butyl Ether (ETBE)	59	9.799	9.793	(0.912)	2342902	75.0000	72.6802
22 2-Butanone	43	10.026	10.029	(0.933)	407885	75.0000	72.9374
23 cis-1,2-Dichloroethene	96	10.094	10.098	(0.940)	820117	75.0000	73.8989

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF19.D
Report Date: 16-May-2006 09:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	24 2,2-Dichloropropane	77	10.124	10.128	(0.942)	870575	75.0000	71.3972
	25 Bromochloromethane	128	10.459	10.463	(0.973)	405626	75.0000	76.3596
	26 Chloroform	83	10.528	10.522	(0.980)	1219382	75.0000	69.9324
	27 Tetrahydrofuran	42	10.538	10.532	(0.981)	2192574	750.000	665.8520
*	28 Pentafluorobenzene	168	10.745	10.748	(1.000)	1287022	50.0000	
	29 Dibromofluoromethane	113	10.764	10.768	(1.002)	898702	50.0000	50.7231
	30 1,1,1-Trichloroethane	97	10.902	10.896	(1.015)	903373	75.0000	74.3896
	31 1,1-Dichloropropene	75	11.138	11.133	(0.934)	953780	75.0000	73.7335
	32 Carbon Tetrachloride	117	11.178	11.172	(0.937)	737575	75.0000	77.7853
	33 1,2-Dichloroethane-d4	65	11.316	11.310	(0.949)	1004794	50.0000	50.4971
	34 1,2-Dichloroethane	62	11.434	11.428	(0.959)	957191	75.0000	74.2545
	35 Benzene	78	11.463	11.467	(0.961)	2788281	75.0000	69.9007
	36 Methyl tert-Amyl Ether (TAME)	73	11.523	11.517	(0.966)	2026004	75.0000	73.2567
*	37 1,4-Difluorobenzene	114	11.926	11.930	(1.000)	2593598	50.0000	
	38 Trichloroethene	95	12.389	12.383	(1.039)	720889	75.0000	72.7525
	39 Trifluorotoluene	146	12.695	12.699	(1.064)	867227	75.0000	80.0921
	40 1,2-Dichloropropane	63	12.704	12.708	(1.065)	819146	75.0000	69.6418
	41 Dibromomethane	93	12.882	12.876	(1.080)	551816	75.0000	75.5840
	42 Bromodichloromethane	83	13.049	13.043	(1.094)	952377	75.0000	74.6566
	43 2-Chloroethylvinylether	63	13.374	13.644	(1.121)	232049	75.0000	72.7865(H)
	44 cis-1,3-Dichloropropene	75	13.650	13.654	(1.145)	1234178	75.0000	72.6193
	45 Tetramethyl THF	43	13.729	13.733	(1.151)	1705441	75.0000	74.4470
	46 4-Methyl-2-Pentanone	43	13.788	13.782	(1.156)	856830	75.0000	66.5504
	47 Toluene-d8	98	14.064	14.058	(1.179)	2773958	50.0000	50.2822
	48 Toluene	92	14.152	14.156	(1.187)	1630240	75.0000	71.2473
	49 trans-1,3-Dichloropropene	75	14.349	14.353	(1.203)	1097462	75.0000	75.1962
	50 1,1,2-Trichloroethane	85	14.625	14.619	(1.226)	401654	75.0000	74.9778
	51 1,3-Dichloropropane	76	14.851	14.855	(0.933)	1190595	75.0000	71.4641
	52 2-Hexanone	43	14.871	14.865	(0.934)	541170	75.0000	72.7940
	53 Tetrachloroethene	166	14.901	14.895	(0.936)	594828	75.0000	76.7113
	54 Dibromochloromethane	129	15.176	15.180	(0.954)	705643	75.0000	75.5850
	55 1,2-Dibromoethane	107	15.364	15.368	(1.288)	770163	75.0000	73.4283
*	56 Chlorobenzene-d5	117	15.915	15.919	(1.000)	2314579	50.0000	
	57 Chlorobenzene	112	15.955	15.958	(1.002)	1832661	75.0000	71.3645
	58 1,1,1,2-Tetrachloroethane	131	16.023	16.018	(1.007)	609664	75.0000	74.5421
	59 Ethylbenzene	91	16.043	16.047	(1.008)	3087441	75.0000	70.7731
	60 m,p-Xylenes	106	16.171	16.175	(1.016)	2189620	150.000	141.9630
	61 o-Xylene	106	16.664	16.658	(1.047)	1079728	75.0000	71.9018
	62 Styrene	104	16.664	16.668	(1.047)	1858901	75.0000	73.7208
	63 Bromoform	173	16.930	16.924	(1.064)	460891	75.0000	73.6566
	64 Isopropylbenzene	105	17.058	17.062	(0.916)	2862396	75.0000	69.3138
	65 Cyclohexanone	55	17.205	17.199	(0.924)	1073973	750.000	739.5658
	66 Bromofluorobenzene	95	17.264	17.268	(0.927)	1185865	50.0000	46.6118
	67 1,1,2,2-Tetrachloroethane	83	17.353	17.357	(0.932)	1031773	75.0000	66.8606
	68 1,2,3-Trichloropropane	75	17.442	17.436	(0.937)	845330	75.0000	68.6662
	69 Bromobenzene	156	17.481	17.485	(0.939)	686011	75.0000	70.1024
	70 Propylbenzene	91	17.520	17.524	(0.941)	3525305	75.0000	70.9972
	71 2-Chlorotoluene	91	17.678	17.672	(0.950)	2281020	75.0000	67.0860
	72 1,3,5-Trimethylbenzene	105	17.698	17.702	(0.951)	2021373	75.0000	75.3421
	73 4-Chlorotoluene	91	17.786	17.790	(0.956)	2153365	75.0000	70.9980
	74 tert-Butylbenzene	119	18.102	18.105	(0.972)	2082675	75.0000	73.9813(M)
	75 1,2,4-Trimethylbenzene	105	18.151	18.145	(0.975)	1861884	75.0000	77.4573
	76 sec-Butylbenzene	105	18.348	18.352	(0.986)	2981289	75.0000	76.9651
	77 para-Isopropyl Toluene	119	18.495	18.490	(0.994)	2061713	75.0000	83.3065

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF19.D
Report Date: 16-May-2006 09:16

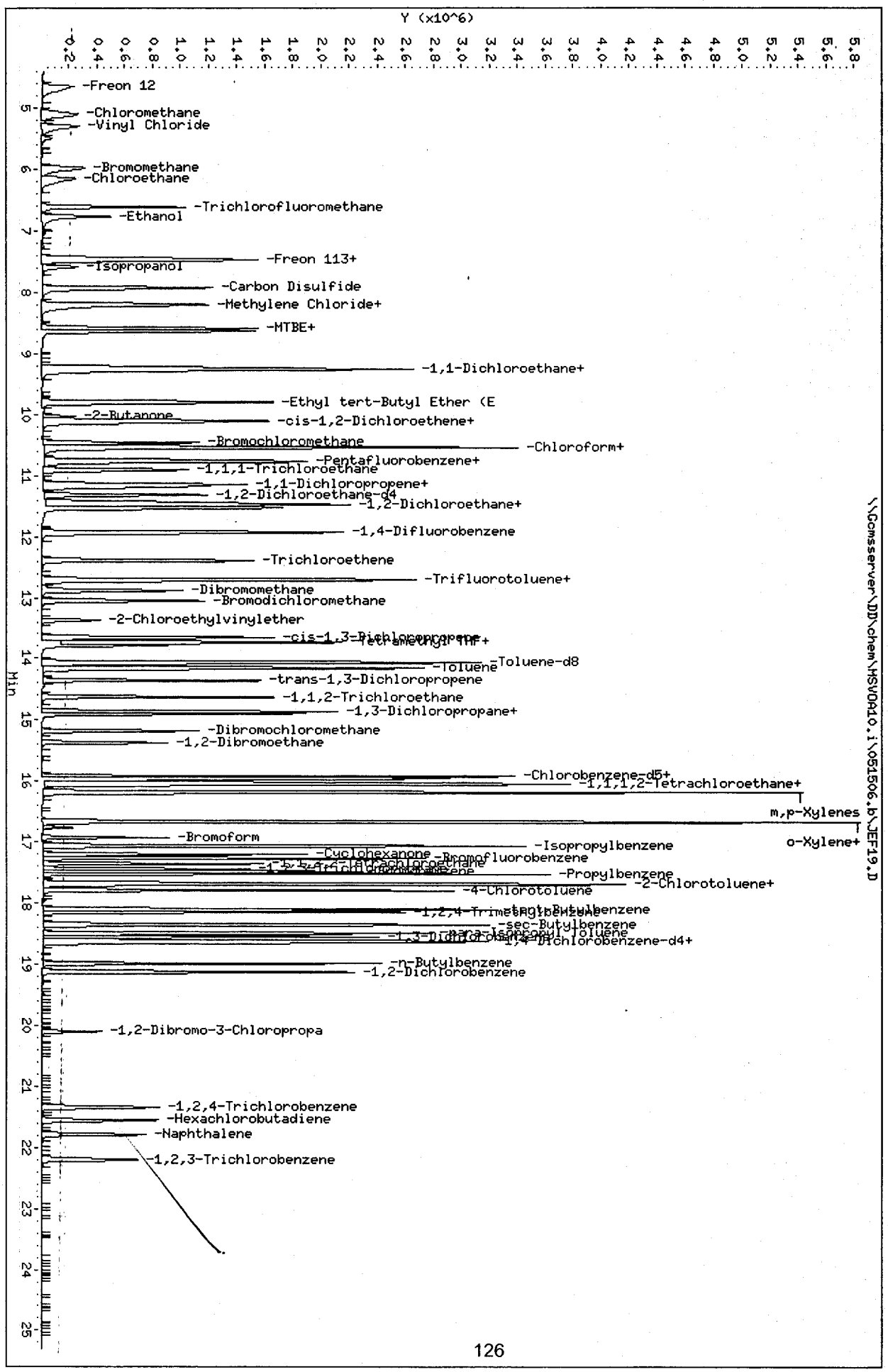
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
78 1,3-Dichlorobenzene	146	18.555	18.549	(0.997)	1252035	75.0000	72.4817
* 79 1,4-Dichlorobenzene-d4	152	18.614	18.618	(1.000)	963843	50.0000	
80 1,4-Dichlorobenzene	146	18.643	18.647	(1.002)	1228898	75.0000	72.8215
81 n-Butylbenzene	91	18.988	18.992	(1.020)	1784523	75.0000	74.5085
82 1,2-Dichlorobenzene	146	19.126	19.120	(1.028)	1182599	75.0000	73.4878
83 1,2-Dibromo-3-Chloropropane	75	20.101	20.105	(1.080)	158567	75.0000	71.0259
84 1,2,4-Trichlorobenzene	180	21.342	21.336	(1.147)	383992	75.0000	74.8089
85 Hexachlorobutadiene	225	21.558	21.553	(1.158)	218495	75.0000	73.5262
86 Naphthalene	128	21.785	21.789	(1.170)	933479	75.0000	60.1601
87 1,2,3-Trichlorobenzene	180	22.199	22.203	(1.193)	343919	75.0000	58.1669

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF19.D
Date : 15-MAY-2006 22:26
Client ID: DYNA P&T
Sample Info: ICAL,S3321,0.015/100,S3255,0.015/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOA
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF20.D
Report Date: 16-May-2006 09:16

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF20.D
Lab Smp Id:
Client Smp ID: DYNA P&T
Inj Date : 15-MAY-2006 23:01
MS Autotune Date: 27-JUL-1998 21:19
Operator : VOA
Inst ID: MSVOA10.i
Smp Info : ICAL,S3321,0.02/100,S3255,0.02/100
Misc Info : S2864,0.01/100,100PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\826GOX10.m
Meth Date : 16-May-2006 09:16 Erik
Quant Type: ISTD
Cal Date : 15-MAY-2006 23:01
Cal File: JEF20.D
Als bottle: 20
Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.633	4.632	(0.431)	1057104	100.000	97.6945
2 Chloromethane	50	5.106	5.105	(0.475)	1173139	100.000	78.5548
3 Vinyl Chloride	62	5.283	5.292	(0.492)	963472	100.000	87.3108
4 Bromomethane	94	5.963	5.972	(0.555)	818262	100.000	110.0883
5 Chloroethane	64	6.150	6.149	(0.572)	859984	100.000	89.5439
6 Trichlorofluoromethane	101	6.613	6.612	(0.615)	1428491	100.000	93.4650
7 Ethanol	45	6.770	6.760	(0.630)	1414536	10000.0	9310.9670
8 Freon 113	101	7.440	7.439	(0.692)	900666	100.000	102.9841
9 Acetone	43	7.460	7.459	(0.694)	317644	100.000	85.0510
10 1,1-Dichloroethene	96	7.479	7.479	(0.696)	825430	100.000	93.2305
11 Isopropanol	45	7.588	7.577	(0.706)	677026	1000.00	937.9638
12 Carbon Disulfide	76	7.923	7.922	(0.737)	3615051	100.000	92.9460
13 Methylene Chloride	84	8.188	8.188	(0.762)	1102277	100.000	90.2909
14 tert-Butyl Alcohol (TBA)	59	8.198	8.198	(0.763)	910443	1000.00	951.3058
15 MTBE	73	8.582	8.571	(0.798)	2819372	100.000	90.4869
16 trans-1,2-Dichloroethene	96	8.622	8.621	(0.802)	976948	100.000	91.9082
18 Vinyl Acetate	43	9.213	9.212	(0.857)	3500731	100.000	84.9069(M)
19 1,1-Dichloroethane	63	9.242	9.242	(0.860)	1707993	100.000	86.1867
20 Isopropyl Ether (DIPE)	45	9.262	9.251	(0.862)	3579543	100.000	86.6103
21 Ethyl tert-Butyl Ether (ETBE)	59	9.794	9.793	(0.911)	3163858	100.000	92.4836
22 2-Butanone	43	10.030	10.029	(0.933)	549688	100.000	92.6222
23 cis-1,2-Dichloroethene	96	10.099	10.098	(0.940)	1059153	100.000	89.9304

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Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF20.D
Report Date: 16-May-2006 09:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
24	2,2-Dichloropropane	77	10.129	10.128	(0.942)	1147518	100.000	88.6789
25	Bromochloromethane	128	10.464	10.463	(0.973)	546203	100.000	96.8898
26	Chloroform	83	10.532	10.522	(0.980)	1594084	100.000	86.1461
27	Tetrahydrofuran	42	10.542	10.532	(0.981)	2819694	1000.00	806.8843
* 28	Pentafluorobenzene	168	10.749	10.748	(1.000)	1365841	50.0000	
29	Dibromofluoromethane	113	10.769	10.768	(1.002)	911952	50.0000	48.5007
30	1,1,1-Trichloroethane	97	10.907	10.896	(1.015)	1222966	100.000	94.8955
31	1,1-Dichloropropene	75	11.133	11.133	(0.933)	1309426	100.000	95.9675
32	Carbon Tetrachloride	117	11.173	11.172	(0.936)	993630	100.000	99.3441
33	1,2-Dichloroethane-d4	65	11.311	11.310	(0.948)	1008827	50.0000	48.0653
34	1,2-Dichloroethane	62	11.429	11.428	(0.958)	1240614	100.000	91.2403
35	Benzene	78	11.468	11.467	(0.961)	3782767	100.000	89.9044
36	Methyl tert-Amyl Ether (TAME)	73	11.527	11.517	(0.966)	2720488	100.000	93.2567
* 37	1,4-Difluorobenzene	114	11.931	11.930	(1.000)	2735750	50.0000	
38	Trichloroethene	95	12.384	12.383	(1.038)	984870	100.000	94.2290
39	Trifluorotoluene	146	12.699	12.699	(1.064)	1162245	100.000	101.7608
40	1,2-Dichloropropane	63	12.709	12.708	(1.065)	1091769	100.000	87.9965
41	Dibromomethane	93	12.876	12.876	(1.079)	727898	100.000	94.5219
42	Bromodichloromethane	83	13.044	13.043	(1.093)	1274341	100.000	94.7047
43	2-Chloroethylvinylether	63	13.369	13.644	(1.121)	335767	100.000	99.2586(H)
44	cis-1,3-Dichloropropene	75	13.655	13.654	(1.144)	1694914	100.000	94.5471
45	Tetramethyl THF	43	13.733	13.733	(1.151)	2199289	100.000	91.0163
46	4-Methyl-2-Pentanone	43	13.783	13.782	(1.155)	1280814	100.000	94.3124
47	Toluene-d8	98	14.058	14.058	(1.178)	2903315	50.0000	49.8924
48	Toluene	92	14.157	14.156	(1.187)	2197365	100.000	91.0428
49	trans-1,3-Dichloropropene	75	14.354	14.353	(1.203)	1466001	100.000	95.2286
50	1,1,2-Trichloroethane	85	14.620	14.619	(1.225)	535269	100.000	94.7281
51	1,3-Dichloropropane	76	14.856	14.855	(0.933)	1607673	100.000	92.2635
52	2-Hexanone	43	14.866	14.865	(0.934)	725436	100.000	93.2973
53	Tetrachloroethene	166	14.895	14.895	(0.936)	808163	100.000	99.6495
54	Dibromochloromethane	129	15.171	15.180	(0.953)	970527	100.000	99.3954
55	1,2-Dibromoethane	107	15.368	15.368	(1.288)	1052547	100.000	95.1368
* 56	Chlorobenzene-d5	117	15.920	15.919	(1.000)	2420828	50.0000	
57	Chlorobenzene	112	15.959	15.958	(1.002)	2438613	100.000	90.7927
58	1,1,1,2-Tetrachloroethane	131	16.018	16.018	(1.006)	802345	100.000	93.7952
59	Ethylbenzene	91	16.048	16.047	(1.008)	3998915	100.000	87.6435
60	m,p-Xylenes	106	16.176	16.175	(1.016)	2833306	200.000	175.6338
61	o-Xylene	106	16.658	16.658	(1.046)	1388286	100.000	88.3919
62	Styrene	104	16.668	16.668	(1.047)	2423625	100.000	91.8982
63	Bromoform	173	16.924	16.924	(1.063)	635014	100.000	97.0297
64	Isopropylbenzene	105	17.062	17.062	(0.916)	3781765	100.000	87.8157
65	Cyclohexanone	55	17.200	17.199	(0.924)	1484173	1000.00	979.4446
66	Bromofluorobenzene	95	17.269	17.268	(0.928)	1234908	50.0000	46.5460
67	1,1,2,2-Tetrachloroethane	83	17.358	17.357	(0.932)	1402391	100.000	87.1450
68	1,2,3-Trichloropropane	75	17.436	17.436	(0.937)	1154656	100.000	89.9409
69	Bromobenzene	156	17.486	17.485	(0.939)	932696	100.000	91.3965
70	Propylbenzene	91	17.525	17.524	(0.941)	4730041	100.000	91.3475
71	2-Chlorotoluene	91	17.673	17.672	(0.949)	3016879	100.000	85.0841
72	1,3,5-Trimethylbenzene	105	17.693	17.702	(0.950)	2751317	100.000	98.3376
73	4-Chlorotoluene	91	17.791	17.790	(0.956)	2879572	100.000	91.0425
74	tert-Butylbenzene	119	18.096	18.105	(0.972)	2866869	100.000	97.6553(M)
75	1,2,4-Trimethylbenzene	105	18.146	18.145	(0.975)	2698325	100.000	107.6444
76	sec-Butylbenzene	105	18.352	18.352	(0.986)	4071587	100.000	100.7955
77	para-Isopropyl Toluene	119	18.490	18.490	(0.993)	2903204	100.000	112.4906

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Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF20.D
Report Date: 16-May-2006 09:16

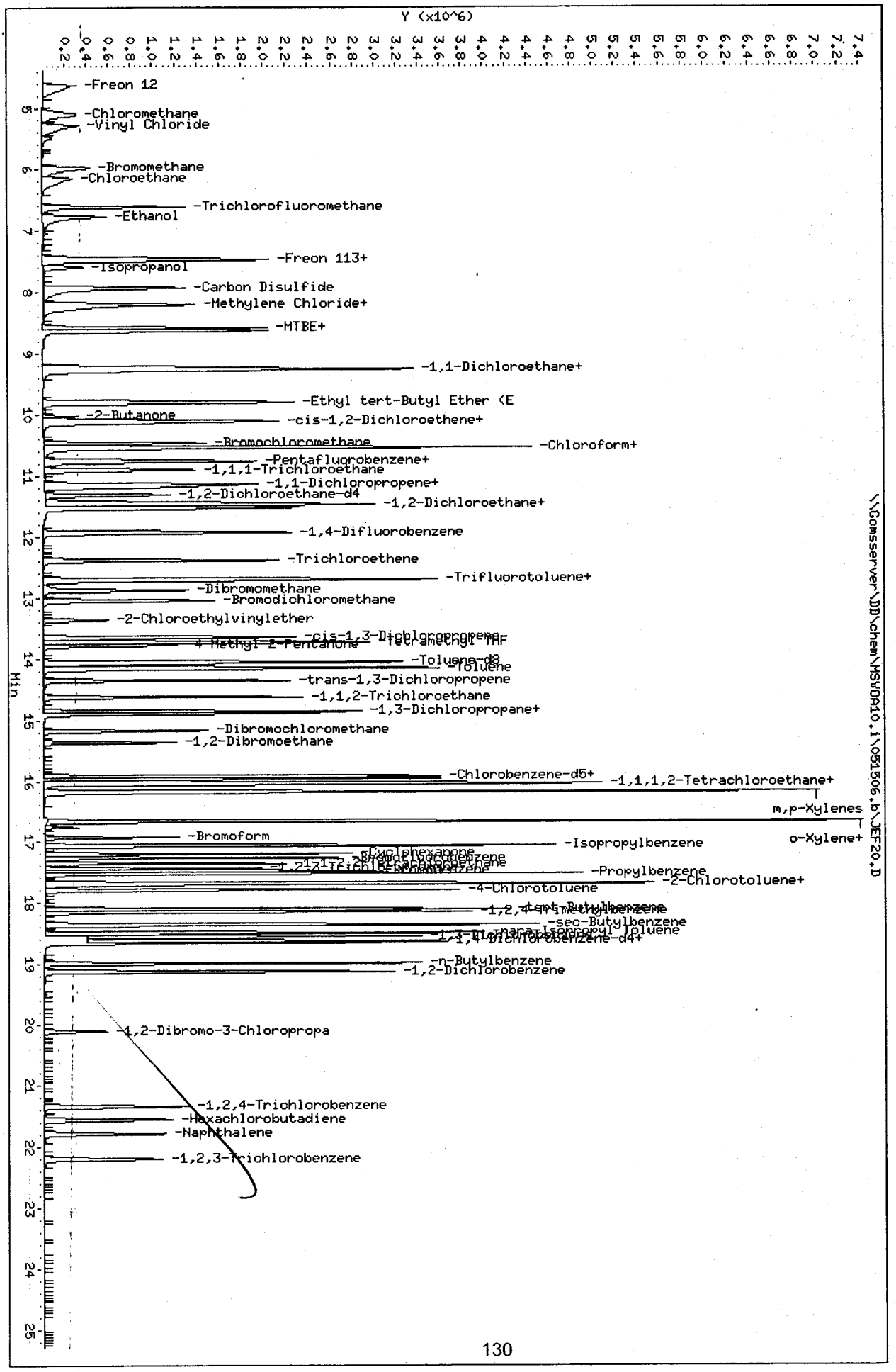
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
78 1,3-Dichlorobenzene	146	18.549	18.549	(0.996)	1711651	100.000	95.0199
* 79 1,4-Dichlorobenzene-d4	152	18.618	18.618	(1.000)	1005122	50.0000	
80 1,4-Dichlorobenzene	146	18.648	18.647	(1.002)	1697299	100.000	96.4473
81 n-Butylbenzene	91	18.983	18.992	(1.020)	2586391	100.000	100.0258
82 1,2-Dichlorobenzene	146	19.121	19.120	(1.027)	1641026	100.000	97.7869
83 1,2-Dibromo-3-Chloropropane	75	20.105	20.105	(1.080)	218721	100.000	93.9468
84 1,2,4-Trichlorobenzene	180	21.337	21.336	(1.146)	602817	100.000	99.9325
85 Hexachlorobutadiene	225	21.553	21.553	(1.158)	315037	100.000	100.3585
86 Naphthalene	128	21.780	21.789	(1.170)	1430808	100.000	52.2960
87 1,2,3-Trichlorobenzene	180	22.193	22.203	(1.192)	530845	100.000	46.5154

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\051506.b\JEF20.D
Date : 15-MAY-2006 23:01
Client ID: DYNA P&T
Sample Info: ICAL,S3321,0.02/100,S3255,0.02/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOA
Column diameter: 0.32



CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA10 Run Name: QC340174 IDF : 1.0
Seqnum : 496196333004 File : jeg04 Time : 16-MAY-2006 10:08
Cal : 496195044001 Caldate : 15-MAY-2006 Caltype : WATER
Standards: S3391 (10000X), S3342 (10000X), S3068 (10000X), S3046 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	0.3961	0.4237	25.00	26.74	ug/L	7	30	m
Chloromethane	0.5467	0.5054	25.00	23.11	ug/L	-8	30	
Vinyl Chloride	0.4040	0.3570	25.00	22.10	ug/L	-12	20	
Bromomethane	0.2721	0.3343	25.00	30.72	ug/L	**23**	30	!v+
Chloroethane	0.3516	0.3089	25.00	21.97	ug/L	-12	30	
Trichlorofluoromethane	0.5595	0.5001	25.00	22.35	ug/L	-11	30	
Acetone	0.1367	0.1171	25.00	21.42	ug/L	-14	40	
Freon 113	0.3202	0.3410	25.00	26.63	ug/L	7	30	
1,1-Dichloroethene	0.3241	0.3407	25.00	26.28	ug/L	5	20	
Methylene Chloride	0.4469	0.4552	25.00	25.46	ug/L	2	30	
Carbon Disulfide	1.4238	1.3249	25.00	23.26	ug/L	-7	30	
MTBE	1.1406	0.9854	25.00	21.60	ug/L	-14	30	
trans-1,2-Dichloroethene	0.3891	0.3871	25.00	24.87	ug/L	-1	30	
Vinyl Acetate	1.5093	1.3946	25.00	23.10	ug/L	-8	40	
1,1-Dichloroethane	0.7255	0.7003	25.00	24.13	ug/L	-3	30	
2-Butanone	0.2173	0.1989	25.00	22.88	ug/L	-8	40	
2,2-Dichloropropane	0.4737	0.4923	25.00	25.98	ug/L	4	30	
cis-1,2-Dichloroethene	0.4311	0.4384	25.00	25.42	ug/L	2	30	
Chloroform	0.6774	0.6690	25.00	24.69	ug/L	-1	20	
Bromochloromethane	0.2064	0.2134	25.00	25.85	ug/L	3	30	
1,1,1-Trichloroethane	0.4718	0.4781	25.00	25.33	ug/L	1	30	
1,1-Dichloropropene	0.2494	0.2648	25.00	26.55	ug/L	6	30	
Carbon Tetrachloride	0.1828	0.1939	25.00	26.52	ug/L	6	30	
1,2-Dichloroethane	0.2485	0.2600	25.00	26.16	ug/L	5	30	
Benzene	0.7690	0.7766	25.00	25.25	ug/L	1	30	
Trichloroethene	0.1910	0.2010	25.00	26.30	ug/L	5	30	
1,2-Dichloropropane	0.2268	0.2310	25.00	25.46	ug/L	2	20	
Bromodichloromethane	0.2459	0.2731	25.00	27.76	ug/L	11	30	
Dibromomethane	0.1407	0.1501	25.00	26.66	ug/L	7	30	
2-Chloroethylvinylether	0.0483	0.0020	25.00	2.373	ug/L	**-91**	40	v- ***
4-Methyl-2-Pentanone	0.2482	0.2371	25.00	23.88	ug/L	-4	40	
Tetramethyl THF	0.4416	0.3372	25.00	19.09	ug/L	**-24**	30	!v-
cis-1,3-Dichloropropene	0.3276	0.3591	25.00	27.40	ug/L	10	30	
Toluene	0.4411	0.4583	25.00	25.98	ug/L	4	20	
trans-1,3-Dichloropropene	0.2814	0.2900	25.00	25.77	ug/L	3	30	
1,1,2-Trichloroethane	0.1033	0.1134	25.00	27.44	ug/L	10	30	
2-Hexanone	0.1606	0.1609	25.00	25.04	ug/L	0	40	
1,3-Dichloropropane	0.3599	0.3789	25.00	26.32	ug/L	5	30	
Tetrachloroethene	0.1675	0.1817	25.00	27.12	ug/L	8	30	
Dibromochloromethane	0.2017	0.2292	25.00	28.41	ug/L	14	30	
1,2-Dibromoethane	0.2022	0.2212	25.00	27.35	ug/L	9	30	
Chlorobenzene	0.5548	0.5796	25.00	26.12	ug/L	4	30	
1,1,1,2-Tetrachloroethane	0.1767	0.1878	25.00	26.58	ug/L	6	30	
Ethylbenzene	0.9424	0.9716	25.00	25.78	ug/L	3	20	
m,p-Xylenes	0.3332	0.3533	50.00	53.02	ug/L	6	30	
o-Xylene	0.3244	0.3481	25.00	26.83	ug/L	7	30	
Styrene	0.5447	0.5940	25.00	27.26	ug/L	9	30	
Bromoform	0.1352	0.1448	25.00	26.77	ug/L	7	30	
Isopropylbenzene	2.1423	2.0349	25.00	23.75	ug/L	-5	30	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	0.8005	0.8205	25.00	25.62	ug/L	2	30	
1,2,3-Trichloropropane	0.6386	0.6715	25.00	26.29	ug/L	5	30	
Propylbenzene	2.5758	2.7138	25.00	26.34	ug/L	5	30	
Bromobenzene	0.5076	0.5276	25.00	25.98	ug/L	4	30	
1,3,5-Trimethylbenzene	1.3918	1.4520	25.00	26.08	ug/L	4	30	
2-Chlorotoluene	1.7638	1.7759	25.00	25.17	ug/L	1	30	
4-Chlorotoluene	1.5734	1.5930	25.00	25.31	ug/L	1	30	
tert-Butylbenzene	1.4604	1.5472	25.00	26.49	ug/L	6	30	m
1,2,4-Trimethylbenzene	1.2470	1.3283	25.00	26.63	ug/L	7	30	
sec-Butylbenzene	2.0094	2.2152	25.00	27.56	ug/L	10	30	
para-Isopropyl Toluene	1.2838	1.4079	25.00	27.42	ug/L	10	30	
1,3-Dichlorobenzene	0.8961	0.9346	25.00	26.07	ug/L	4	30	
1,4-Dichlorobenzene	0.8754	0.9225	25.00	26.35	ug/L	5	30	
n-Butylbenzene	0.9790	1.2013	25.00	26.01	ug/L	4	30	
1,2-Dichlorobenzene	0.8348	0.8967	25.00	26.85	ug/L	7	30	
1,2-Dibromo-3-Chloropropane	0.1158	0.1163	25.00	25.10	ug/L	0	30	
1,2,4-Trichlorobenzene	0.1745	0.2385	25.00	26.98	ug/L	8	30	
Hexachlorobutadiene	0.1198	0.1670	25.00	28.20	ug/L	13	30	
Naphthalene	0.4052	0.5782	25.00	29.20	ug/L	17	30	
1,2,3-Trichlorobenzene	0.1053	0.2059	25.00	29.22	ug/L	17	30	
tert-Butyl Alcohol (TBA)	0.0350	0.0323	125.0	115.1	ug/L	-8	30	
Isopropyl Ether (DIPE)	1.5130	1.3174	25.00	21.77	ug/L	-13	30	
Ethyl tert-Butyl Ether (ETBE)	1.2523	1.1500	25.00	22.96	ug/L	-8	30	
Methyl tert-Amyl Ether (TAME)	0.5332	0.5263	25.00	24.68	ug/L	-1	30	
Cyclohexanone	0.0712	0.0244	250.0	82.58	ug/L	-67	30	v- ***
Ethanol	0.0056	0.0047	2500	2101	ug/L	-16	30	
Isopropanol	0.0264	0.0226	250.0	213.5	ug/L	-15	30	
Tetrahydrofuran	0.1279	0.1163	250.0	227.3	ug/L	-9	30	

ISTD (ICAL jef18)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1236215	1417804	14.69	10.75	10.75	0.00
1,4-Difluorobenzene	2490200	2792258	12.13	11.93	11.92	-0.01
Chlorobenzene-d5	2250952	2506403	11.35	15.92	15.92	0.00
1,4-Dichlorobenzene-d4	929075	1027476	10.59	18.62	18.62	0.00

!=warning +=high bias -=low bias m=manual integration v=ICV

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CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA10 Run Name: 25 PPB IDF : 1.0
Seqnum : 496220758002 File : jf202 Time : 02-JUN-2006 07:36
Cal : 496195044001 Caldate : 15-MAY-2006 Caltype : WATER
Standards: S3365 (20000X), S3592 (20000X), S3570 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.3961	0.4148	25.00	26.18	ug/L	5	30	0.0500	
Chloromethane	0.5467	0.4643	25.00	21.23	ug/L	-15	30	0.1000	
Vinyl Chloride	0.4040	0.3785	25.00	23.42	ug/L	-6	20	0.0500	
Bromomethane	0.2721	0.1504	25.00	13.82	ug/L	**-45**	30	0.0500	c- ***
Chloroethane	0.3516	0.3212	25.00	22.84	ug/L	-9	30	0.0500	
Trichlorofluoromethane	0.5595	0.4768	25.00	21.31	ug/L	-15	30	0.0500	
Acetone	0.1367	0.1337	25.00	24.46	ug/L	-2	40	0.0500	
Freon 113	0.3202	0.3377	25.00	26.37	ug/L	5	30	0.0500	
1,1-Dichloroethene	0.3241	0.3146	25.00	24.27	ug/L	-3	20	0.0500	
Methylene Chloride	0.4469	0.4414	25.00	24.69	ug/L	-1	30	0.0500	
Carbon Disulfide	1.4238	1.4632	25.00	25.69	ug/L	3	30	0.0500	
MTBE	1.1406	1.1298	25.00	24.76	ug/L	-1	30	0.0500	
trans-1,2-Dichloroethene	0.3891	0.3759	25.00	24.15	ug/L	-3	30	0.0500	
Vinyl Acetate	1.5093	1.6611	25.00	27.51	ug/L	10	40	0.0500	
1,1-Dichloroethane	0.7255	0.6696	25.00	23.07	ug/L	-8	30	0.1000	
2-Butanone	0.2173	0.2250	25.00	25.90	ug/L	4	40	0.0500	
2,2-Dichloropropane	0.4737	0.4610	25.00	24.33	ug/L	-3	30	0.0500	
cis-1,2-Dichloroethene	0.4311	0.4149	25.00	24.06	ug/L	-4	30	0.0500	
Chloroform	0.6774	0.6268	25.00	23.13	ug/L	-7	20	0.0500	
Bromochloromethane	0.2064	0.2114	25.00	25.61	ug/L	2	30	0.0500	
1,1,1-Trichloroethane	0.4718	0.4322	25.00	22.90	ug/L	-8	30	0.0500	
1,1-Dichloropropene	0.2494	0.2442	25.00	24.48	ug/L	-2	30	0.0500	
Carbon Tetrachloride	0.1828	0.1671	25.00	22.85	ug/L	-9	30	0.0500	
1,2-Dichloroethane	0.2485	0.2316	25.00	23.30	ug/L	-7	30	0.0500	
Benzene	0.7690	0.7394	25.00	24.04	ug/L	-4	30	0.0500	
Trichloroethene	0.1910	0.1788	25.00	23.40	ug/L	-6	30	0.0500	
1,2-Dichloropropane	0.2268	0.2239	25.00	24.69	ug/L	-1	20	0.0500	
Bromodichloromethane	0.2459	0.2363	25.00	24.02	ug/L	-4	30	0.0500	
Dibromomethane	0.1407	0.1412	25.00	25.08	ug/L	0	30	0.0500	
4-Methyl-2-Pentanone	0.2482	0.2396	25.00	24.13	ug/L	-3	40	0.0500	
Tetramethyl THF	0.4416	0.4417	25.00	25.01	ug/L	0	30	0.0500	
cis-1,3-Dichloropropene	0.3276	0.3288	25.00	25.09	ug/L	0	30	0.0500	
Toluene	0.4411	0.4247	25.00	24.07	ug/L	-4	20	0.0500	
trans-1,3-Dichloropropene	0.2814	0.2852	25.00	25.34	ug/L	1	30	0.0500	
1,1,2-Trichloroethane	0.1033	0.1026	25.00	24.83	ug/L	-1	30	0.0500	
2-Hexanone	0.1606	0.1661	25.00	25.85	ug/L	3	40	0.0500	
1,3-Dichloropropane	0.3599	0.3560	25.00	24.73	ug/L	-1	30	0.0500	
Tetrachloroethene	0.1675	0.1534	25.00	22.89	ug/L	-8	30	0.0500	
Dibromochloromethane	0.2017	0.1972	25.00	24.45	ug/L	-2	30	0.0500	
1,2-Dibromoethane	0.2022	0.1991	25.00	24.61	ug/L	-2	30	0.0500	
Chlorobenzene	0.5548	0.5215	25.00	23.50	ug/L	-6	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1767	0.1656	25.00	23.43	ug/L	-6	30	0.0500	
Ethylbenzene	0.9424	0.8760	25.00	23.24	ug/L	-7	20	0.0500	
m,p-Xylenes	0.3332	0.3169	50.00	47.56	ug/L	-5	30	0.0500	
o-Xylene	0.3244	0.3140	25.00	24.20	ug/L	-3	30	0.0500	
Styrene	0.5447	0.5556	25.00	25.50	ug/L	2	30	0.0500	
Bromoform	0.1352	0.1247	25.00	23.06	ug/L	-8	30	0.1000	
Isopropylbenzene	2.1423	1.9527	25.00	22.79	ug/L	-9	30	0.0500	
1,1,2,2-Tetrachloroethane	0.8005	0.7837	25.00	24.48	ug/L	-2	30	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.6386	0.6284	25.00	24.60	ug/L	-2	30	0.0500	
Propylbenzene	2.5758	2.4279	25.00	23.56	ug/L	-6	30	0.0500	
Bromobenzene	0.5076	0.4634	25.00	22.82	ug/L	-9	30	0.0500	
1,3,5-Trimethylbenzene	1.3918	1.3199	25.00	23.71	ug/L	-5	30	0.0500	
2-Chlorotoluene	1.7638	1.5882	25.00	22.51	ug/L	-10	30	0.0500	
4-Chlorotoluene	1.5734	1.4595	25.00	23.19	ug/L	-7	30	0.0500	
tert-Butylbenzene	1.4604	1.2355	25.00	21.15	ug/L	-15	30	0.0500	
1,2,4-Trimethylbenzene	1.2470	1.2256	25.00	24.57	ug/L	-2	30	0.0500	
sec-Butylbenzene	2.0094	1.9222	25.00	23.91	ug/L	-4	30	0.0500	
para-Isopropyl Toluene	1.2838	1.2913	25.00	25.15	ug/L	1	30	0.0500	
1,3-Dichlorobenzene	0.8961	0.8252	25.00	23.02	ug/L	-8	30	0.0500	
1,4-Dichlorobenzene	0.8754	0.8469	25.00	24.19	ug/L	-3	30	0.0500	
n-Butylbenzene	0.9790	1.1374	25.00	24.70	ug/L	-1	30	0.0500	
1,2-Dichlorobenzene	0.8348	0.7934	25.00	23.76	ug/L	-5	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1158	0.1078	25.00	23.27	ug/L	-7	30	0.0500	
1,2,4-Trichlorobenzene	0.1745	0.2399	25.00	27.12	ug/L	8	30	0.0500	
Hexachlorobutadiene	0.1198	0.1312	25.00	22.45	ug/L	-10	30	0.0500	
Naphthalene	0.4052	0.5867	25.00	29.56	ug/L	18	30	0.0500	
1,2,3-Trichlorobenzene	0.1053	0.2112	25.00	29.80	ug/L	19	30	0.0500	?curve-
tert-Butyl Alcohol (TBA)	0.0350	0.0369	250.0	263.5	ug/L	5	30	0.0050	
Isopropyl Ether (DIPE)	1.5130	1.4626	25.00	24.17	ug/L	-3	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.2523	1.2413	25.00	24.78	ug/L	-1	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.5332	0.5334	25.00	25.01	ug/L	0	30	0.0500	
Cyclohexanone	0.0712	0.0596	250.0	199.2	ug/L	-20	30	0.0050	
Ethanol	0.0056	0.0059	2500	2643	ug/L	6	30	5.0E-4	
Isopropanol	0.0264	0.0262	250.0	248.2	ug/L	-1	30	0.0050	
Tetrahydrofuran	0.1279	0.1316	250.0	257.1	ug/L	3	30	0.0050	
Dibromofluoromethane	0.6883	0.7100	50.00	51.57	ug/L	3	30	0.0500	
1,2-Dichloroethane-d4	0.3836	0.3698	50.00	48.21	ug/L	-4	30	0.0500	
Trifluorotoluene	0.2087	0.2111	25.00	25.28	ug/L	1	30	0.0500	
Toluene-d8	1.0635	1.1251	50.00	52.90	ug/L	6	30	0.0500	
Bromofluorobenzene	1.3198	1.2945	50.00	49.04	ug/L	-2	30	0.0500	

ISTD (ICAL jef18)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1236215	1283372	3.81	10.75	10.73	-0.02
1,4-Difluorobenzene	2490200	2613367	4.95	11.93	11.92	-0.01
Chlorobenzene-d5	2250952	2345212	4.19	15.92	15.91	-0.01
1,4-Dichlorobenzene-d4	929075	927977	-0.12	18.62	18.61	-0.01

06/05/06

6/5/06

-=low bias ?curve=check curve c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA10 Run Name: 25PPB IDF : 1.0
Seqnum : 496220758006 File : jf206 Time : 02-JUN-2006 09:45
Cal : 496195044001 Caldate : 15-MAY-2006 Caltype : WATER
Standards: S3570 (5000X), S3365 (20000X), S3592 (20000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.3961	0.4294	25.00	27.10	ug/L	8	30	0.0500	
Chloromethane	0.5467	0.4831	25.00	22.09	ug/L	-12	30	0.1000	
Vinyl Chloride	0.4040	0.3567	25.00	22.08	ug/L	-12	20	0.0500	
Bromomethane	0.2721	0.2315	25.00	21.27	ug/L	-15	30	0.0500	
Chloroethane	0.3516	0.3325	25.00	23.64	ug/L	-5	30	0.0500	
Trichlorofluoromethane	0.5595	0.5025	25.00	22.45	ug/L	-10	30	0.0500	
Acetone	0.1367	0.1236	25.00	22.60	ug/L	-10	40	0.0500	
Freon 113	0.3202	0.3577	25.00	27.93	ug/L	12	30	0.0500	
1,1-Dichloroethene	0.3241	0.3493	25.00	26.94	ug/L	8	20	0.0500	
Methylene Chloride	0.4469	0.4471	25.00	25.01	ug/L	0	30	0.0500	
Carbon Disulfide	1.4238	1.5768	25.00	27.69	ug/L	11	30	0.0500	
MTBE	1.1406	1.1205	25.00	24.56	ug/L	-2	30	0.0500	
trans-1,2-Dichloroethene	0.3891	0.4064	25.00	26.11	ug/L	4	30	0.0500	
Vinyl Acetate	1.5093	1.6545	25.00	27.40	ug/L	10	40	0.0500	
1,1-Dichloroethane	0.7255	0.7190	25.00	24.78	ug/L	-1	30	0.1000	
2-Butanone	0.2173	0.2131	25.00	24.53	ug/L	-2	40	0.0500	
2,2-Dichloropropane	0.4737	0.4727	25.00	24.95	ug/L	0	30	0.0500	
cis-1,2-Dichloroethene	0.4311	0.4379	25.00	25.39	ug/L	2	30	0.0500	
Chloroform	0.6774	0.6537	25.00	24.12	ug/L	-4	20	0.0500	
Bromochloromethane	0.2064	0.2136	25.00	25.88	ug/L	4	30	0.0500	
1,1,1-Trichloroethane	0.4718	0.4547	25.00	24.09	ug/L	-4	30	0.0500	
1,1-Dichloropropene	0.2494	0.2533	25.00	25.40	ug/L	2	30	0.0500	
Carbon Tetrachloride	0.1828	0.1791	25.00	24.50	ug/L	-2	30	0.0500	
1,2-Dichloroethane	0.2485	0.2352	25.00	23.66	ug/L	-5	30	0.0500	
Benzene	0.7690	0.7482	25.00	24.32	ug/L	-3	30	0.0500	
Trichloroethene	0.1910	0.1899	25.00	24.86	ug/L	-1	30	0.0500	
1,2-Dichloropropane	0.2268	0.2247	25.00	24.78	ug/L	-1	20	0.0500	
Bromodichloromethane	0.2459	0.2453	25.00	24.93	ug/L	0	30	0.0500	
Dibromomethane	0.1407	0.1439	25.00	25.56	ug/L	2	30	0.0500	
4-Methyl-2-Pentanone	0.2482	0.2332	25.00	23.49	ug/L	-6	40	0.0500	
Tetramethyl THF	0.4416	0.4513	25.00	25.55	ug/L	2	30	0.0500	
cis-1,3-Dichloropropene	0.3276	0.3335	25.00	25.45	ug/L	2	30	0.0500	
Toluene	0.4411	0.4344	25.00	24.62	ug/L	-2	20	0.0500	
trans-1,3-Dichloropropene	0.2814	0.2889	25.00	25.67	ug/L	3	30	0.0500	
1,1,2-Trichloroethane	0.1033	0.1056	25.00	25.56	ug/L	2	30	0.0500	
2-Hexanone	0.1606	0.1672	25.00	26.02	ug/L	4	40	0.0500	
1,3-Dichloropropane	0.3599	0.3624	25.00	25.18	ug/L	1	30	0.0500	
Tetrachloroethene	0.1675	0.1608	25.00	23.99	ug/L	-4	30	0.0500	
Dibromochloromethane	0.2017	0.2015	25.00	24.98	ug/L	0	30	0.0500	
1,2-Dibromoethane	0.2022	0.1991	25.00	24.62	ug/L	-2	30	0.0500	
Chlorobenzene	0.5548	0.5427	25.00	24.46	ug/L	-2	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1767	0.1707	25.00	24.15	ug/L	-3	30	0.0500	
Ethylbenzene	0.9424	0.9076	25.00	24.08	ug/L	-4	20	0.0500	
m,p-Xylenes	0.3332	0.3292	50.00	49.40	ug/L	-1	30	0.0500	
o-Xylene	0.3244	0.3254	25.00	25.08	ug/L	0	30	0.0500	
Styrene	0.5447	0.5798	25.00	26.61	ug/L	6	30	0.0500	
Bromoform	0.1352	0.1235	25.00	22.84	ug/L	-9	30	0.1000	
Isopropylbenzene	2.1423	2.0031	25.00	23.38	ug/L	-6	30	0.0500	
1,1,2,2-Tetrachloroethane	0.8005	0.7774	25.00	24.28	ug/L	-3	30	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.6386	0.5997	25.00	23.48	ug/L	-6	30	0.0500	
Propylbenzene	2.5758	2.5309	25.00	24.56	ug/L	-2	30	0.0500	
Bromobenzene	0.5076	0.4810	25.00	23.69	ug/L	-5	30	0.0500	
1,3,5-Trimethylbenzene	1.3918	1.4103	25.00	25.33	ug/L	1	30	0.0500	
2-Chlorotoluene	1.7638	1.6600	25.00	23.53	ug/L	-6	30	0.0500	
4-Chlorotoluene	1.5734	1.5241	25.00	24.22	ug/L	-3	30	0.0500	
tert-Butylbenzene	1.4604	1.3108	25.00	22.44	ug/L	-10	30	0.0500	
1,2,4-Trimethylbenzene	1.2470	1.3058	25.00	26.18	ug/L	5	30	0.0500	
sec-Butylbenzene	2.0094	2.0279	25.00	25.23	ug/L	1	30	0.0500	
para-Isopropyl Toluene	1.2838	1.3687	25.00	26.65	ug/L	7	30	0.0500	
1,3-Dichlorobenzene	0.8961	0.8661	25.00	24.16	ug/L	-3	30	0.0500	
1,4-Dichlorobenzene	0.8754	0.8510	25.00	24.30	ug/L	-3	30	0.0500	
n-Butylbenzene	0.9790	1.1983	25.00	25.95	ug/L	4	30	0.0500	
1,2-Dichlorobenzene	0.8348	0.8160	25.00	24.44	ug/L	-2	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1158	0.1121	25.00	24.20	ug/L	-3	30	0.0500	
1,2,4-Trichlorobenzene	0.1745	0.2531	25.00	28.42	ug/L	14	30	0.0500	
Hexachlorobutadiene	0.1198	0.1336	25.00	22.82	ug/L	-9	30	0.0500	
Naphthalene	0.4052	0.6506	25.00	32.14	ug/L	**29**	30	0.0500	!c+
1,2,3-Trichlorobenzene	0.1053	0.2242	25.00	31.21	ug/L	**25**	30	0.0500	!c+ ?curve-
tert-Butyl Alcohol (TBA)	0.0350	0.0363	250.0	259.4	ug/L	4	30	0.0050	
Isopropyl Ether (DIPE)	1.5130	1.5044	25.00	24.86	ug/L	-1	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.2523	1.2922	25.00	25.79	ug/L	3	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.5332	0.5380	25.00	25.23	ug/L	1	30	0.0500	
Cyclohexanone	0.0712	0.0564	250.0	188.6	ug/L	**-25**	30	0.0050	!c-
Ethanol	0.0056	0.0057	2500	2540	ug/L	2	30	5.0E-4	
Isopropanol	0.0264	0.0254	250.0	240.0	ug/L	-4	30	0.0050	
Tetrahydrofuran	0.1279	0.1287	250.0	251.5	ug/L	1	30	0.0050	
Dibromofluoromethane	0.6883	0.7248	50.00	52.65	ug/L	5	30	0.0500	
1,2-Dichloroethane-d4	0.3836	0.3748	50.00	48.85	ug/L	-2	30	0.0500	
Trifluorotoluene	0.2087	0.2117	25.00	25.36	ug/L	1	30	0.0500	
Toluene-d8	1.0635	1.1115	50.00	52.25	ug/L	5	30	0.0500	
Bromofluorobenzene	1.3198	1.2971	50.00	49.14	ug/L	-2	30	0.0500	

ISTD (ICAL jef18)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1236215	1239617	0.28	10.75	10.73	-0.02
1,4-Difluorobenzene	2490200	2541250	2.05	11.93	11.91	-0.02
Chlorobenzene-d5	2250952	2255138	0.19	15.92	15.91	-0.01
1,4-Dichlorobenzene-d4	929075	898444	-3.30	18.62	18.60	-0.02

04/09/06

6/2/02

!=warning +=high bias -=low bias ?curve=check curve c=CCV

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 02-JUN-2006
Sequence: 496220758 (jf2)
Instrument ID: MSVOA10

ICAL Filename: jef18
Date Analyzed: 15-MAY-2006
Time Analyzed: 21:51

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	1236215	10.75	2490200	11.93	2250952	15.92	929075	18.62
LOWER LIMIT	618108	10.25	1245100	11.43	1125476	15.42	464538	18.12
UPPER LIMIT	2472430	11.25	4980400	12.43	4501904	16.42	1858150	19.12

TYPE	SAMPLE	#								
CCV	25 PPB	002	1283372	10.73	2613367	11.92	2345212	15.91	927977	18.61
BS	QC342489	003	1286344	10.73	2586902	11.91	2304004	15.91	935898	18.61
BSD	QC342490	004	1231455	10.73	2509858	11.91	2244457	15.91	925238	18.61
CCV	25PPB	006	1239617	10.73	2541250	11.91	2255138	15.91	898444	18.60
BLANK	QC342491	008	1160947	10.73	2394704	11.91	2139408	15.91	814453	18.61
SAMPLE	187065-018	009	1151214	10.73	2392976	11.91	2139669	15.91	804717	18.61
SAMPLE	187112-017	010	1151360	10.73	2364411	11.91	2116020	15.91	776081	18.61
SAMPLE	187112-013	011	1183509	10.74	2433000	11.92	2145357	15.91	824568	18.61
SAMPLE	187112-014	012	1145690	10.73	2374578	11.91	2107114	15.91	793855	18.60
SAMPLE	187093-005	013	1142383	10.73	2354922	11.91	2098009	15.90	805795	18.61
SAMPLE	187053-003	014	1037508	10.73	2163194	11.91	1961576	15.91	818701	18.61
SAMPLE	187065-001	015	1129213	10.73	2326294	11.91	2097980	15.91	816060	18.61
SAMPLE	187065-004	016	1128655	10.73	2346888	11.91	2089902	15.91	787405	18.61
SAMPLE	187065-005	017	1087988	10.73	2259580	11.91	2026840	15.91	777246	18.61
SAMPLE	187065-006	018	1083146	10.73	2238102	11.92	2006128	15.91	759709	18.62
SAMPLE	187065-009	019	1060250	10.73	2199623	11.91	1967487	15.91	759272	18.61
SAMPLE	187065-012	020	1030333	10.73	2164828	11.91	1933844	15.91	804762	18.61
SAMPLE	187065-013	021	1226848	10.73	2504952	11.91	2271281	15.91	931723	18.61
SAMPLE	187065-014	022	1227282	10.74	2552384	11.92	2232201	15.91	898407	18.61
SAMPLE	187065-011	023	1226385	10.73	2493984	11.91	2222666	15.91	877251	18.61
SAMPLE	187181-001	024	1219437	10.73	2520669	11.92	2219805	15.92	866178	18.61
SAMPLE	187181-002	025	1183133	10.73	2461934	11.91	2193968	15.91	852754	18.61

6/15/06

MS VOA10 8260XW. ICAL

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 496195044 Instrument: MSVOA10 HP GCMS VOA 10 Begun: 15-MAY-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds Used	>LR
001	jef01	TUN	BFB			15-MAY-2006 10:44	1.0						1	
002	jef02	CCV				15-MAY-2006 11:01	1.0	10		5000			2 3 4 5	
003	jef03	X	IB			15-MAY-2006 12:18	1.0						5	
004	jef04	X	IB			15-MAY-2006 12:53	1.0						5	
005	jef05	X	LOWPT			15-MAY-2006 13:27	1.0						5	
006	jef06	X	IB			15-MAY-2006 14:02	1.0						5	
007	jef07	X	IB			15-MAY-2006 15:42	1.0						5	
008	jef08	TUN	BFB			15-MAY-2006 16:20	1.0						1	
009	jef09	X	IB			15-MAY-2006 16:37	1.0						5	
010	jef10	X	IB			15-MAY-2006 17:12	1.0						5	
011	jef11	X	CALIB IB			15-MAY-2006 17:48	1.0						5	
012	jef12	ICAL	0.25/0.5PPB			15-MAY-2006 18:22	1.0						3 2 4 5	
013	jef13	ICAL	0.5/1PPB			15-MAY-2006 18:57	1.0						3 2 4 5	
014	jef14	ICAL	2PPB			15-MAY-2006 19:32	1.0						3 2 4 5	
015	jef15	ICAL	5PPB			15-MAY-2006 20:07	1.0						3 2 4 5	138
016	jef16	ICAL	10PPB			15-MAY-2006 20:42	1.0						3 2 4 5	
017	jef17	ICAL	20PPB			15-MAY-2006 21:16	1.0						3 2 4 5	
018	jef18	ICAL	50PPB			15-MAY-2006 21:51	1.0						3 2 4 5	
019	jef19	ICAL	75PPB			15-MAY-2006 22:26	1.0						3 2 4 5	
020	jef20	ICAL	100PPB			15-MAY-2006 23:01	1.0						3 2 4 5	
021	jef21	X				15-MAY-2006 23:36	1.0	1		5000			6 5	
022	jef22	X				16-MAY-2006 00:10	1.0	1		5000			7 8 5	
023	jef23	X	IB			16-MAY-2006 00:45	1.0						5	
024	jef24	X	IB			16-MAY-2006 01:20	1.0						5	

No 2Clbenz, Naph + 123 TCB to 50ppb only, ICV - ~~Bromo~~ ↑, Cyclohex ↓, + A.C.E lim - Bromo ↑, TMTHF ↓
B 5/16/07

Stds used: 1=S2327 2=S3255 3=S3321 4=S2864 5=S3046 6=S3342 7=S3391 8=S3068

Analyst: _____ Date: 5/16/07

Ai 05/17/07

MSVOA10 8260x w. ICV

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 496196333 Instrument: MSVOA10 HP GCMS VOA 10 Begun: 16-MAY-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	jeg01	TUN	BFB			16-MAY-2006 08:13	1.0						1	
002	jeg02	CCV				16-MAY-2006 08:30	1.0	2		5000			2 3 4 5	
003	jeg03	BS	QC340173	113472	Water	16-MAY-2006 09:33	1.0	4	2	5000			6 7 8 5	
004	jeg04	BSD/ICV	QC340174	113472	Water	16-MAY-2006 10:08	1.0	3	1	5000			6 7 8 5	
005	jeg05	X	IB			16-MAY-2006 10:43	1.0						5	

139

Stds used: 1=S2327 2=S3255 3=S3321 4=S2864 5=S3046 6=S3391 7=S3342 8=S3068

Analyst: [signature] Date: 5/16/06

5/17/06

13, 14, 17

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 496220758 Instrument: MSVOA10 HP GCMS VOA 10 Begun: 02-JUN-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	jf201	TUN	BFB			02-JUN-2006 07:18	1.0						1	
002	jf202	CCV	25 PPB			02-JUN-2006 07:36	1.0	1		5000			2 3 4	
003	jf203	BS	QC342489	114055	Water	02-JUN-2006 08:20	1.0	3	2	5000			5 6 7 4	
004	jf204	BSD	QC342490	114055	Water	02-JUN-2006 08:55	1.0	3	1	5000			5 6 7 4	
005	jf205	TUN	BFB			02-JUN-2006 09:27	1.0						1	
006	jf206	CCV	25PPB			02-JUN-2006 09:45	1.0			5000			4 2 3	
007	jf207	X	IB			02-JUN-2006 10:30	1.0						4	
008	jf208	BLANK	QC342491	114055	Water	02-JUN-2006 11:05	1.0	1	1	5000			4	
009	jf209	SAMPLE	187065-018	114055	Water	02-JUN-2006 11:40	1.0			5000	B	<2	4	
010	jf210	SAMPLE	187112-017	114055	Water	02-JUN-2006 12:16	1.0			5000	A		4	
011	jf211	SAMPLE	187112-013	114055	Water	02-JUN-2006 12:51	1.0			5000	C		4	
012	jf212	SAMPLE	187112-014	114055	Water	02-JUN-2006 13:26	1.0			5000			4	
013	jf213	SAMPLE	187093-005	114055	Water	02-JUN-2006 14:02	200.0			5000			4	
014	jf214	SAMPLE	187053-003	114055	Water	02-JUN-2006 14:37	5.0			5000			4	
015	jf215	SAMPLE	187065-001	114055	Water	02-JUN-2006 15:12	1.0			5000			4 RR1X Bzn, MP-X co-	140
016	jf216	SAMPLE	187065-004	114055	Water	02-JUN-2006 15:47	1.0			5000			4	
017	jf217	SAMPLE	187065-005	114055	Water	02-JUN-2006 16:22	1.0			5000			4	
018	jf218	SAMPLE	187065-006	114055	Water	02-JUN-2006 16:58	1.0			5000			4	
019	jf219	SAMPLE	187065-009	114055	Water	02-JUN-2006 17:33	1.0			5000			4	
020	jf220	SAMPLE	187065-012	114055	Water	02-JUN-2006 18:09	1.0			5000			4	
021	jf221	SAMPLE	187065-013	114055	Water	02-JUN-2006 18:44	1.0			5000			4	
022	jf222	SAMPLE	187065-014	114055	Water	02-JUN-2006 19:19	1.0			5000			4	
023	jf223	SAMPLE	187065-011	114055	Water	02-JUN-2006 19:54	~~1.0~~ 1.667 6/5/06			5000			4 RR1X OD	
024	jf224	SAMPLE	187181-001	114055	Water	02-JUN-2006 20:29	1.0			5000	A		4	
025	jf225	SAMPLE	187181-002	114055	Water	02-JUN-2006 21:05	1.0			5000			4	
026	jf226	X	IB			02-JUN-2006 21:40	1.0						4	
027	jf227	X	IB			02-JUN-2006 22:15	1.0						4	

Stds used: 1=S2327 2=S3365 3=S3592 4=S3570 5=S3391 6=S3600 7=S3604

Analyst: [signature] Date: 6/5/06

06/05/06

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187112 8260 Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CLM	VCM	BRE	CLE	AC1	DCE	MTS	CTC	DTC	MTC	DAC	VTC	DAC	MEC	DKE	TEL	TCC	CAL	DCA	BCA	TZ	DCC	BCA	DCD	MPI	DCC	BPC	DMP	BPM	DPP	DPA	TCC	HXO	PCC	DCB	CBL	EBZ	XYL	XYL	TTY	SOM	TBE	PCB	DCC	DBZ	BCB
187112-013	MSVOA10	06/02/06 12:51	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
187112-014	MSVOA10	06/02/06 13:26	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
187112-017	MSVOA10	06/02/06 12:16	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC342489	MSVOA10	06/02/06 08:20	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC342490	MSVOA10	06/02/06 08:55	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC342491	MSVOA10	06/02/06 11:05	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 6/2/06
PREPPED BY.

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	187065-18		B	<2			10	pr 1x TB clock	
2	187093-5		C	<2				pr ~~187[illegible]~~ 200X	
3	~~187115-2~~							~~pr 2x [illegible]~~	
4	187053-3		C	<2				pr 5x OD	
5	187065-1							1x	
6	4								
7	5								
8	6								
9	9							1.67x	
0	11			<2				1x	
1	12								
2	13								
3	14							1x	
14	187181-1		A					1x	
15	2							1x	
16	187112-13		C						
17	14							TB	
18	17		A						
19									
20									
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PREPFORM.X

7/21/98

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water
As of 07/05/06

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10	MSVOA11
Ethanol	ug/L	55	22	23	50	11	22	36	10
1,1-Dichloroethene	ug/L	0.27	0.22	0.062	0.17	0.10	0.17	0.089	0.11
Benzene	ug/L	0.11	0.041	0.060	0.061	0.12	0.10	0.027	0.084
Trichloroethene	ug/L	0.21	0.076	0.18	0.17	0.11	0.13	0.087	0.086
Toluene	ug/L	0.083	0.083	0.12	0.092	0.062	0.085	0.053	0.14
Chlorobenzene	ug/L	0.10	0.090	0.11	0.16	0.16	0.098	0.050	0.075
Freon 12	ug/L	0.18	0.099	0.22	0.062	0.15	0.47	0.18	0.20
Chloromethane	ug/L	0.12	0.16	0.12	0.18	0.13	0.34	0.089	0.20
Vinyl Chloride	ug/L	0.19	0.23	0.10	0.066	0.10	0.097	0.16	0.039
Bromomethane	ug/L	0.29	0.30	0.31	0.13	0.31	0.34	0.20	0.23
Chloroethane	ug/L	0.33	0.33	0.15	0.16	0.13	0.45	0.12	0.18
Trichlorofluoromethane	ug/L	0.16	0.057	0.17	0.10	0.080	0.46	0.10	0.19
Acetone	ug/L	0.39	0.87	0.21	0.85	0.16	0.20	0.49	0.15
Freon 113	ug/L	0.062	0.12	0.13	0.25	0.071	0.19	0.091	0.16
Methylene Chloride	ug/L	0.15	0.21	0.11	0.12	0.16	0.29	0.22	0.086
MTBE	ug/L	0.069	0.074	0.065	0.045	0.040	0.15	0.052	0.068
Carbon Disulfide	ug/L	0.039	0.031	0.086	0.076	0.11	0.14	0.037	0.066
trans-1,2-Dichloroethene	ug/L	0.37	0.13	0.18	0.051	0.064	0.15	0.093	0.094
Vinyl Acetate	ug/L	0.076	0.36	0.084	0.99	0.40	0.13	0.10	0.13
1,1-Dichloroethane	ug/L	0.088	0.061	0.048	0.090	0.11	0.14	0.063	0.10
2-Butanone	ug/L	0.16	0.17	0.20	0.50	0.099	0.23	0.26	0.081
cis-1,2-Dichloroethene	ug/L	0.26	0.18	0.083	0.12	0.042	0.12	0.11	0.16
2,2-Dichloropropane	ug/L	0.093	0.17	0.077	0.12	0.066	0.15	0.083	0.14
Chloroform	ug/L	0.082	0.055	0.086	0.060	0.11	0.16	0.044	0.084
Bromochloromethane	ug/L	0.091	0.090	0.10	0.18	0.11	0.18	0.15	0.11
1,1,1-Trichloroethane	ug/L	0.084	0.066	0.14	0.11	0.061	0.12	0.041	0.096
1,1-Dichloropropene	ug/L	0.12	0.11	0.081	0.16	0.16	0.11	0.055	0.084
Carbon Tetrachloride	ug/L	0.089	0.11	0.098	0.17	0.15	0.14	0.056	0.14
1,2-Dichloroethane	ug/L	0.090	0.088	0.099	0.096	0.12	0.18	0.056	0.094
1,2-Dichloropropane	ug/L	0.093	0.060	0.079	0.071	0.14	0.16	0.12	0.086
Bromodichloromethane	ug/L	0.086	0.039	0.067	0.074	0.10	0.14	0.069	0.094
Dibromomethane	ug/L	0.16	0.061	0.092	0.16	0.11	0.18	0.13	0.089
4-Methyl-2-Pentanone	ug/L	0.044	0.076	0.057	0.20	0.13	0.14	0.25	0.067
cis-1,3-Dichloropropene	ug/L	0.068	0.065	0.056	0.20	0.16	0.094	0.044	0.080
trans-1,3-Dichloropropene	ug/L	0.074	0.074	0.044	0.073	0.14	0.13	0.060	0.059
1,1,2-Trichloroethane	ug/L	0.12	0.12	0.14	0.19	0.15	0.21	0.058	0.12
2-Hexanone	ug/L	0.043	0.31	0.047	0.34	0.11	0.13	0.14	0.097
1,3-Dichloropropane	ug/L	0.064	0.067	0.061	0.063	0.10	0.14	0.068	0.049
Tetrachloroethene	ug/L	0.13	0.14	0.12	0.22	0.14	0.092	0.093	0.089
Dibromochloromethane	ug/L	0.099	0.054	0.10	0.085	0.056	0.15	0.063	0.094
1,2-Dibromoethane	ug/L	0.16	0.061	0.10	0.073	0.11	0.13	0.070	0.088
2-Chloroethylvinylether	ug/L	0.093	0.18	0.24	0.17	0.14	0.19	0.23	0.14
1,1,1,2-Tetrachloroethane	ug/L	0.11	0.087	0.10	0.11	0.14	0.10	0.088	0.16
Ethylbenzene	ug/L	0.059	0.076	0.075	0.17	0.041	0.11	0.11	0.069
m,p-Xylenes	ug/L	0.24	0.22	0.14	0.27	0.17	0.19	0.20	0.14

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water
As of 07/05/06

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10	MSVOA11
o-Xylene	ug/L	0.10	0.058	0.092	0.11	0.16	0.087	0.13	0.078
Styrene	ug/L	0.12	0.092	0.098	0.085	0.16	0.11	0.061	0.055
Bromoform	ug/L	0.12	0.088	0.11	0.18	0.094	0.12	0.15	0.10
Isopropylbenzene	ug/L	0.12	0.059	0.090	0.18	0.059	0.11	0.10	0.089
1,1,2,2-Tetrachloroethane	ug/L	0.13	0.096	0.086	0.047	0.13	0.20	0.055	0.11
1,2,3-Trichloropropane	ug/L	0.31	0.28	0.074	0.11	0.17	0.19	0.16	0.072
Propylbenzene	ug/L	0.075	0.10	0.063	0.21	0.023	0.12	0.11	0.088
Bromobenzene	ug/L	0.12	0.12	0.10	0.19	0.12	0.17	0.085	0.088
1,3,5-Trimethylbenzene	ug/L	0.060	0.095	0.047	0.14	0.057	0.13	0.13	0.069
2-Chlorotoluene	ug/L	0.12	0.11	0.068	0.15	0.025	0.10	0.12	0.080
4-Chlorotoluene	ug/L	0.079	0.069	0.043	0.14	0.037	0.14	0.069	0.078
tert-Butylbenzene	ug/L	0.11	0.15	0.075	0.19	0.038	0.13	0.079	0.082
1,2,4-Trimethylbenzene	ug/L	0.091	0.088	0.066	0.12	0.069	0.082	0.10	0.099
sec-Butylbenzene	ug/L	0.11	0.12	0.062	0.17	0.088	0.088	0.076	0.097
para-Isopropyl Toluene	ug/L	0.058	0.12	0.12	0.14	0.056	0.071	0.045	0.075
1,3-Dichlorobenzene	ug/L	0.080	0.16	0.097	0.18	0.060	0.13	0.10	0.094
1,4-Dichlorobenzene	ug/L	0.068	0.14	0.095	0.18	0.038	0.10	0.17	0.072
n-Butylbenzene	ug/L	0.12	0.15	0.11	0.18	0.21	0.11	0.12	0.073
1,2-Dichlorobenzene	ug/L	0.072	0.14	0.080	0.14	0.16	0.16	0.061	0.081
1,2-Dibromo-3-Chloropropane	ug/L	0.39	0.25	0.21	0.22	0.13	0.17	0.098	0.18
1,2,4-Trichlorobenzene	ug/L	0.12	0.17	0.14	0.16	0.10	0.12	0.17	0.061
Hexachlorobutadiene	ug/L	0.19	0.19	0.29	0.21	0.11	0.065	0.25	0.17
Naphthalene	ug/L	0.12	0.13	0.060	0.10	0.091	0.11	0.16	0.052
1,2,3-Trichlorobenzene	ug/L	0.063	0.17	0.10	0.20	0.095	0.10	0.29	0.15
tert-Butyl Alcohol (TBA)	ug/L	1.3	1.6	0.83	2.5	1.3	1.1	1.3	1.3
Isopropyl Ether (DIPE)	ug/L	0.068	0.070	0.063	0.027	0.030	0.14	0.027	0.089
Ethyl tert-Butyl Ether (ETBE)	ug/L	0.089	0.045	0.024	0.20	0.033	0.13	0.034	0.079
Methyl tert-Amyl Ether (TAME)	ug/L	0.094	0.13	0.055	0.054	0.048	0.10	0.057	0.17
Isopropanol	ug/L	4.6	2.7	1.6	6.6	1.5	1.4	1.1	1.3
Hexane	ug/L				0.33		0.15		
Cyclohexanone	ug/L	3.8	2.4	0.21	1.6	1.6	1.3		1.0
Tetrahydrofuran	ug/L	0.64	1.2	1.1	0.79	1.4	2.1	3.5	0.70
Tetramethyl THF	ug/L	0.067	0.061	0.062	0.20	0.10	0.13	0.078	0.079
Gasoline C6-C10	ug/L		15		4.8	15	8.5		
Gasoline C7-C12	ug/L		18		2.4	13	7.7		
Dibromofluoromethane	ug/L	3.1	2.9	1.8	2.4	1.5	1.1	3.2	1.1
1,2-Dichloroethane-d4	ug/L	3.0	3.9		2.4	1.2	1.7	3.0	1.0
Toluene-d8	ug/L	1.7	3.8		1.1	1.0	1.5	1.1	0.96
Bromofluorobenzene	ug/L	2.5	2.6		1.2	1.2	2.5	1.5	0.62
Trifluorotoluene	ug/L	0.12	0.43	0.065	0.21	0.13		0.14	

PESTICIDES

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	DW052506A	Batch#:	113929
Lab ID:	187112-013	Sampled:	05/25/06
Matrix:	Water	Received:	05/26/06
Units:	ug/L	Prepared:	05/30/06
Diln Fac:	1.000	Analyzed:	06/01/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND #	0.05
gamma-BHC	ND	0.05
delta-BHC	ND #	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.09
4,4'-DDE	ND #	0.09
Endrin	ND	0.09
Endosulfan II	ND	0.09
Endosulfan sulfate	ND	0.09
4,4'-DDD	ND	0.09
4,4'-DDT	ND	0.09
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.09
Toxaphene	ND	0.9

Surrogate	%REC	Limits
TCMX	106	65-135
Decachlorobiphenyl	122	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC341995	Batch#:	113929
Matrix:	Water	Prepared:	05/30/06
Units:	ug/L	Analyzed:	06/01/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND #	0.05
gamma-BHC	ND	0.05
delta-BHC	ND #	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND #	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	83	65-135
Decachlorobiphenyl	116	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Matrix:	Water	Batch#:	113929
Units:	ug/L	Prepared:	05/30/06
Diln Fac:	1.000	Analyzed:	06/01/06

Type: BS Lab ID: QC341996

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	0.2000	0.1688	84	65-135
Heptachlor	0.2000	0.1760	88	65-135
Aldrin	0.2000	0.1763	88	65-135
Dieldrin	0.4000	0.3827	96	65-135
Endrin	0.4000	0.3704	93	65-135
4,4'-DDT	0.4000	0.3457	86	65-135

Surrogate	%REC	Limits
TCMX	102	65-135
Decachlorobiphenyl	106	65-135

Type: BSD Lab ID: QC341997

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	0.2000	0.1812	91	65-135	7	35
Heptachlor	0.2000	0.1924	96	65-135	9	35
Aldrin	0.2000	0.1907	95	65-135	8	35
Dieldrin	0.4000	0.4178	104	65-135	9	35
Endrin	0.4000	0.4207	105	65-135	13	35
4,4'-DDT	0.4000	0.3954	99	65-135	13	35

Surrogate	%REC	Limits
TCMX	110	65-135
Decachlorobiphenyl	124	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187112 PEST Water: EPA 8081A

Inst : GC23
Calnum : 806195056001
Units : pg

Name : gc23pest135
Date : 15-MAY-2006 22:44
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	135_015	806195056015	pest_1	15-MAY-2006 22:44	S2827
L2	135_016	806195056016	pest_2	15-MAY-2006 23:13	S3283
L3	135_017	806195056017	pest_3	15-MAY-2006 23:41	S2996
L4	135_018	806195056018	pest_4	16-MAY-2006 00:10	S2997
L5	135_019	806195056019	pest_5	16-MAY-2006 00:39	S3111
L6	135_020	806195056020	pest_6	16-MAY-2006 01:08	S2828
L7	135_021	806195056021	pest_7	16-MAY-2006 01:37	S2823

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
alpha-BHC	A	41010	39647	35893	35029	35814	41476	41106	AVRG		2.59E-5		38568	7	0.995	20	
gamma-BHC	A	37332	35688	31909	30880	31593	36440	36408	AVRG		2.91E-5		34321	8	0.995	20	
beta-BHC	A	15828	14501	12707	12090	12233	13095	13132	AVRG		7.48E-5		13369	10	0.995	20	
delta-BHC	A	35312	34359	31206	30395	31440	34863	35783	AVRG		3.00E-5		33337	7	0.995	20	
Heptachlor	A	29228	29334	27523	26750	27654	32089	31634	AVRG		3.43E-5		29173	7	0.995	20	
Aldrin	A	31722	30855	28151	27056	27992	32165	30942	AVRG		3.35E-5		29840	7	0.995	20	
Heptachlor epoxide	A	29777	28377	25604	24306	25043	28326	26743	AVRG		3.72E-5		26882	7	0.995	20	
gamma-Chlordane	A	29111	27452	25259	24251	25015	29179	28285	AVRG		3.71E-5		26936	8	0.995	20	
alpha-Chlordane	A	27524	26075	23939	23028	23587	27562	27039	AVRG		3.92E-5		25536	8	0.995	20	
4,4'-DDE	A	21974	20214	19670	20396	20677	25475		AVRG		4.67E-5		21401	10	0.995	20	
Endosulfan I	A	33757	33626	29657	27897	29953	31761	30690	AVRG		3.22E-5		31049	7	0.995	20	
Dieldrin	A	27145	26099	24796	25336	26307	27847		AVRG		3.81E-5		26255	4	0.995	20	
Endrin	A	22003	20253	20197	19473	19840	23258	19232	AVRG		4.85E-5		20608	7	0.995	20	
4,4'-DDD	A	21043	19475	18855	19180	19240	22815	21259	AVRG		4.93E-5		20267	7	0.995	20	
Endosulfan II	A	23597	21804	20673	20726	21217	23419	19587	AVRG		4.64E-5		21574	7	0.995	20	
4,4'-DDT	A	14501	14741	15473	16474	16302	20726	19242	AVRG		5.96E-5		16780	14	0.995	20	
Methoxychlor	A	6150.8	6078.2	6680.2	7754.5	7548.7	7672.5		AVRG		1.43E-4		6980.8	11	0.995	20	
Endosulfan sulfate	A	19448	18034	17059	17031	17026	18955	16897	AVRG		5.62E-5		17779	6	0.995	20	
Endrin ketone	A	24047	22167	20855	22121	22317	24107	20138	AVRG		4.49E-5		22250	7	0.995	20	
TCMX	A	23120	23357	22357	21979	22286	25325	25298	AVRG		4.28E-5		23389	6	0.995	20	
Decachlorobiphenyl	A	15643	14047	12328	14818	14189	14400	13119	AVRG		7.10E-5		14078	8	0.995	20	
alpha-BHC	B	19660	20230	19740	19214	18740	20144	22293	AVRG		5.00E-5		20003	6	0.995	20	
gamma-BHC	B	20099	18413	17797	17168	16806	17919	19873	AVRG		5.47E-5		18296	7	0.995	20	
beta-BHC	B	8587.5	7966.4	7603.7	7261.4	7039.2	7021.4	7223.7	AVRG		1.33E-4		7529.0	8	0.995	20	
delta-BHC	B	19826	16374	16317	15302	15261	16582	19050	AVRG		5.90E-5		16959	11	0.995	20	
Heptachlor	B	24215	16539	16270	15643	15378	16101	17793	AVRG		5.74E-5		17420	18	0.995	20	

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806195056001

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aldrin	B	19581	15936	15510	14582	14763	15383	17140	AVRG		6.20E-5		16128	11	0.995	20	
Heptachlor epoxide	B	19984	15097	14569	13345	13544	13787	14947	AVRG		6.65E-5		15039	15	0.995	20	
gamma-Chlordane	B	18815	15034	14414	13397	13784	14301	16130	AVRG		6.61E-5		15125	12	0.995	20	
alpha-Chlordane	B	17904	14301	13693	12721	13115	13525	15408	AVRG		6.95E-5		14381	12	0.995	20	
4,4'-DDE	B	16465	14087	13441	12994	13881	14703	14887	AVRG		6.97E-5		14351	8	0.995	20	
Endosulfan I	B	18190	13937	13262	12139	12366	12444	13685	AVRG		7.29E-5		13718	15	0.995	20	
Dieldrin	B	16818	14326	13933	13165	13937	14684	14385	AVRG		6.91E-5		14464	8	0.995	20	
Endrin	B	13821	11330	11494	10166	10556	11324	11648	AVRG		8.71E-5		11477	10	0.995	20	
4,4'-DDD	B	12360	10645	10530	9862.5	10476	11190	11932	AVRG		9.09E-5		10999	8	0.995	20	
Endosulfan II	B	15232	13138	12315	11491	12018	12473	12794	AVRG		7.82E-5		12780	9	0.995	20	
4,4'-DDT	B	12564	10979	9633.3	10551	11291	11206	11874	AVRG		8.96E-5		11157	8	0.995	20	
Methoxychlor	B	4864.6	4191.0	4257.9	4029.8	4222.6	3954.5		AVRG		2.35E-4		4253.4	8	0.995	20	
Endosulfan sulfate	B	12695	10945	10456	9656.6	10022	10171	10876	AVRG		9.36E-5		10689	9	0.995	20	
Endrin ketone	B	15424	13142	12714	11947	12612	12573	12733	AVRG		7.68E-5		13021	9	0.995	20	
TCMX	B	14044	13067	12577	12135	11968	12710	13812	AVRG		7.75E-5		12902	6	0.995	20	
Decachlorobiphenyl	B	12955	11090	10678	10247	10431	9908.3	11768	AVRG		9.08E-5		11011	10	0.995	20	
Average EPA 8081A	A												(n=22)	8		20	
Average EPA 8081A	B												(n=22)	10		20	

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Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 187112 PEST Water
EPA 8081A

Inst : GC23
Calnum : 806195056001

Name : gc23pest135
Cal Date: 15-MAY-2006

ICV 806195056023 (135_023 16-MAY-2006) stds: S3067

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
alpha-BHC	A	38568	35840	25.00	23.23	pg	-7	15	
gamma-BHC	A	34321	32025	25.00	23.33	pg	-7	15	
beta-BHC	A	13369	12171	25.00	22.76	pg	-9	15	
delta-BHC	A	33337	32308	25.00	24.23	pg	-3	15	
Heptachlor	A	29173	29371	25.00	25.17	pg	1	15	
Aldrin	A	29840	28658	25.00	24.01	pg	-4	15	
Heptachlor epoxide	A	26882	25186	25.00	23.42	pg	-6	15	
gamma-Chlordane	A	26936	24934	25.00	23.14	pg	-7	15	
alpha-Chlordane	A	25536	24090	25.00	23.58	pg	-6	15	
4,4'-DDE	A	21401	19304	25.00	22.55	pg	-10	15	
Endosulfan I	A	31049	26249	25.00	21.14	pg	-15	15	
Dieldrin	A	26255	24401	25.00	23.23	pg	-7	15	
Endrin	A	20608	20566	25.00	24.95	pg	0	15	
4,4'-DDD	A	20267	18609	25.00	22.96	pg	-8	15	
Endosulfan II	A	21574	20413	25.00	23.65	pg	-5	15	
4,4'-DDT	A	16780	15471	25.00	23.05	pg	-8	15	
Methoxychlor	A	6980.8	6487.9	25.00	23.23	pg	-7	15	
Endosulfan sulfate	A	17779	16910	25.00	23.78	pg	-5	15	
Endrin ketone	A	22250	20879	25.00	23.46	pg	-6	15	
alpha-BHC	B	20003	18806	25.00	23.50	pg	-6	15	
gamma-BHC	B	18296	16998	25.00	23.23	pg	-7	15	
beta-BHC	B	7529.0	6957.7	25.00	23.10	pg	-8	15	
delta-BHC	B	16959	16146	25.00	23.80	pg	-5	15	
Heptachlor	B	17420	16009	25.00	22.98	pg	-8	15	
Aldrin	B	16128	14878	25.00	23.06	pg	-8	15	
Heptachlor epoxide	B	15039	13591	25.00	22.59	pg	-10	15	
gamma-Chlordane	B	15125	13648	25.00	22.56	pg	-10	15	
alpha-Chlordane	B	14381	13303	25.00	23.13	pg	-7	15	
4,4'-DDE	B	14351	13739	25.00	23.93	pg	-4	15	
Endosulfan I	B	13718	12688	25.00	23.12	pg	-8	15	
Dieldrin	B	14464	13624	25.00	23.55	pg	-6	15	
Endrin	B	11477	11334	25.00	24.69	pg	-1	15	
4,4'-DDD	B	10999	10523	25.00	23.92	pg	-4	15	
Endosulfan II	B	12780	12238	25.00	23.94	pg	-4	15	
4,4'-DDT	B	11157	11404	25.00	25.55	pg	2	15	
Methoxychlor	B	4253.4	5037.7	25.00	29.61	pg	**18**	15	v+ ***
Endosulfan sulfate	B	10689	10535	25.00	24.64	pg	-1	15	
Endrin ketone	B	13021	13184	25.00	25.31	pg	1	15	
Average EPA 8081A	A	n=20					6	15	
Average EPA 8081A	B	n=20					6	15	

+=high bias v=ICV

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 187112 PEST Water
EPA 8081A

Inst : GC23 Run Name: pem IDF : 1.0
Seqnum : 806219433002 File : 152_002 Time : 01-JUN-2006 09:42

Standards: S3206

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	1541526	9	15	
4,4'-DDE	A	4762			
4,4'-DDD	A	141755			
Endrin	A	961881	8	15	
Endrin aldehyde	A	20232			
Endrin ketone	A	61148			
4,4'-DDT	B	1026154	6	15	
4,4'-DDE	B	3462			
4,4'-DDD	B	59293			
Endrin	B	522173	6	15	
Endrin aldehyde	B	3877			
Endrin ketone	B	27418			

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 187112 PEST Water
EPA 8081A

Inst : GC23 Run Name: pem IDF : 1.0
Seqnum : 806219433019 File : 152_019 Time : 01-JUN-2006 18:35

Standards: S3206

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	1740429	7	15	
4,4'-DDE	A	7839			
4,4'-DDD	A	129474			
Endrin	A	1050115	7	15	
Endrin aldehyde	A	19477			
Endrin ketone	A	56745			
4,4'-DDT	B	997391	5	15	
4,4'-DDE	B	3127			
4,4'-DDD	B	50665			
Endrin	B	510945	5	15	
Endrin aldehyde	B	4982			
Endrin ketone	B	23318			

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187112 PEST Water
EPA 8081A

Inst : GC23
Seqnum : 806219433006
Cal : 806195056001
Standards: S2997

Run Name: pest_4
File : 152_006
Caldate : 15-MAY-2006

IDF : 1.0
Time : 01-JUN-2006 12:08

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	38568	33540	20.00	17.39	pg	-13	15	
gamma-BHC	A	34321	29023	20.00	16.91	pg	-15	15	
beta-BHC	A	13369	10889	20.00	16.29	pg	**-19**	15	c- ***
delta-BHC	A	33337	27670	20.00	16.60	pg	**-17**	15	c- ***
Heptachlor	A	29173	25667	20.00	17.60	pg	-12	15	
Aldrin	A	29840	26499	20.00	17.76	pg	-11	15	
Heptachlor epoxide	A	26882	24023	20.00	17.87	pg	-11	15	
gamma-Chlordane	A	26936	23849	20.00	17.71	pg	-11	15	
alpha-Chlordane	A	25536	22600	20.00	17.70	pg	-11	15	
4,4'-DDE	A	21401	15670	40.00	29.29	pg	**-27**	15	c- ***
Endosulfan I	A	31049	33466	20.00	21.56	pg	8	15	
Dieldrin	A	26255	25150	40.00	38.32	pg	-4	15	
Endrin	A	20608	19196	40.00	37.26	pg	-7	15	
4,4'-DDD	A	20267	19196	40.00	37.89	pg	-5	15	
Endosulfan II	A	21574	21203	40.00	39.31	pg	-2	15	
4,4'-DDT	A	16780	14816	40.00	35.32	pg	-12	15	
Methoxychlor	A	6980.8	6570.3	200.0	188.2	pg	-6	15	
Endosulfan sulfate	A	17779	16909	40.00	38.04	pg	-5	15	
Endrin ketone	A	22250	21473	40.00	38.60	pg	-3	15	
TCMX	A	23389	21116	40.00	36.11	pg	-10	15	
Decachlorobiphenyl	A	14078	11879	40.00	33.75	pg	**-16**	15	c-
alpha-BHC	B	20003	16733	20.00	16.73	pg	**-16**	15	c- ***
gamma-BHC	B	18296	14983	20.00	16.38	pg	**-18**	15	c- ***
beta-BHC	B	7529.0	6326.4	20.00	16.81	pg	**-16**	15	c- ***
delta-BHC	B	16959	13776	20.00	16.25	pg	**-19**	15	c- ***
Heptachlor	B	17420	14025	20.00	16.10	pg	**-19**	15	c- ***
Aldrin	B	16128	13435	20.00	16.66	pg	**-17**	15	c- ***
Heptachlor epoxide	B	15039	12802	20.00	17.03	pg	-15	15	
gamma-Chlordane	B	15125	13233	20.00	17.50	pg	-13	15	
alpha-Chlordane	B	14381	12334	20.00	17.15	pg	-14	15	
4,4'-DDE	B	14351	12781	40.00	35.62	pg	-11	15	
Endosulfan I	B	13718	11745	20.00	17.12	pg	-14	15	
Dieldrin	B	14464	12904	40.00	35.68	pg	-11	15	
Endrin	B	11477	10347	40.00	36.06	pg	-10	15	
4,4'-DDD	B	10999	10322	40.00	37.54	pg	-6	15	
Endosulfan II	B	12780	12150	40.00	38.03	pg	-5	15	
4,4'-DDT	B	11157	9986.7	40.00	35.80	pg	-10	15	
Methoxychlor	B	4253.4	3995.4	200.0	187.9	pg	-6	15	
Endosulfan sulfate	B	10689	10141	40.00	37.95	pg	-5	15	
Endrin ketone	B	13021	12419	40.00	38.15	pg	-5	15	
TCMX	B	12902	10795	40.00	33.47	pg	**-16**	15	c-
Decachlorobiphenyl	B	11011	9675.1	40.00	35.15	pg	-12	15	
Average EPA 8081A	A	(n=22)					11	15	
Average EPA 8081A	B	(n=22)					12	15	

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187112 PEST Water
EPA 8081A

Inst : GC23 Run Name: pest_3 IDF : 1.0
Seqnum : 806219433021 File : 152_021 Time : 01-JUN-2006 19:33
Cal : 806195056001 Caldate : 15-MAY-2006
Standards: S2996

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	38568	35828	10.00	9.290	pg	-7	15	
gamma-BHC	A	34321	31108	10.00	9.064	pg	-9	15	
beta-BHC	A	13369	12142	10.00	9.082	pg	-9	15	
delta-BHC	A	33337	29375	10.00	8.811	pg	-12	15	
Heptachlor	A	29173	28022	10.00	9.605	pg	-4	15	
Aldrin	A	29840	28479	10.00	9.544	pg	-5	15	
Heptachlor epoxide	A	26882	26154	10.00	9.729	pg	-3	15	
gamma-Chlordane	A	26936	25988	10.00	9.648	pg	-4	15	
alpha-Chlordane	A	25536	25641	10.00	10.04	pg	0	15	
4,4'-DDE	A	21401	17843	20.00	16.67	pg	**-17**	15	c- ***
Endosulfan I	A	31049	35772	10.00	11.52	pg	15	15	
Dieldrin	A	26255	26076	20.00	19.86	pg	-1	15	
Endrin	A	20608	21524	20.00	20.89	pg	4	15	
4,4'-DDD	A	20267	21384	20.00	21.10	pg	6	15	
Endosulfan II	A	21574	21664	20.00	20.08	pg	0	15	
4,4'-DDT	A	16780	15736	20.00	18.76	pg	-6	15	
Methoxychlor	A	6980.8	7258.2	100.0	104.0	pg	4	15	
Endosulfan sulfate	A	17779	19323	20.00	21.74	pg	9	15	
Endrin ketone	A	22250	23839	20.00	21.43	pg	7	15	
TCMX	A	23389	22577	20.00	19.31	pg	-3	15	
Decachlorobiphenyl	A	14078	11817	20.00	16.79	pg	**-16**	15	c-
alpha-BHC	B	20003	18612	10.00	9.305	pg	-7	15	
gamma-BHC	B	18296	16837	10.00	9.203	pg	-8	15	
beta-BHC	B	7529.0	7107.6	10.00	9.440	pg	-6	15	
delta-BHC	B	16959	15146	10.00	8.931	pg	-11	15	
Heptachlor	B	17420	15885	10.00	9.119	pg	-9	15	
Aldrin	B	16128	15073	10.00	9.346	pg	-7	15	
Heptachlor epoxide	B	15039	14045	10.00	9.339	pg	-7	15	
gamma-Chlordane	B	15125	14331	10.00	9.475	pg	-5	15	
alpha-Chlordane	B	14381	13831	10.00	9.618	pg	-4	15	
4,4'-DDE	B	14351	13484	20.00	18.79	pg	-6	15	
Endosulfan I	B	13718	13684	10.00	9.975	pg	0	15	
Dieldrin	B	14464	14180	20.00	19.61	pg	-2	15	
Endrin	B	11477	11984	20.00	20.88	pg	4	15	
4,4'-DDD	B	10999	11216	20.00	20.39	pg	2	15	
Endosulfan II	B	12780	12828	20.00	20.08	pg	0	15	
4,4'-DDT	B	11157	8903.1	20.00	15.96	pg	**-20**	15	c- ***
Methoxychlor	B	4253.4	4324.4	100.0	101.7	pg	2	15	
Endosulfan sulfate	B	10689	10931	20.00	20.45	pg	2	15	
Endrin ketone	B	13021	13414	20.00	20.60	pg	3	15	
TCMX	B	12902	12250	20.00	18.99	pg	-5	15	
Decachlorobiphenyl	B	11011	10645	20.00	19.34	pg	-3	15	
Average EPA 8081A	A	(n=22)					7	15	
Average EPA 8081A	B	(n=22)					5	15	

-=low bias c=CCV

SEQUENCE SUMMARY FOR 187112 PEST Water
Curtis & Tompkins Laboratories

Sequence: 806195056 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 15-MAY-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	135_001	X	primer			15-MAY-2006 10:56	1.0						
002	135_002	X	primer			15-MAY-2006 16:29	1.0						
003	135_003	X	primer			15-MAY-2006 16:58	1.0						
004	135_004	X	primer			15-MAY-2006 17:27	1.0						
005	135_005	X	primer			15-MAY-2006 17:56	1.0						
006	135_006	X	primer			15-MAY-2006 18:24	1.0						
007	135_007	X	primer			15-MAY-2006 18:53	1.0						
008	135_008	X	primer			15-MAY-2006 19:22	1.0						
009	135_009	X	primer			15-MAY-2006 19:51	1.0						
010	135_010	X	primer			15-MAY-2006 20:20	1.0						
011	135_011	X	hex			15-MAY-2006 20:48	1.0						
012	135_012	X	hex			15-MAY-2006 21:17	1.0						
013	135_013	PEM	pem			15-MAY-2006 21:46	1.0		1			1	
014	135_014	X	hex			15-MAY-2006 22:15	1.0						
015	135_015	ICAL	pest_1			15-MAY-2006 22:44	1.0					2	
016	135_016	ICAL	pest_2			15-MAY-2006 23:13	1.0		1			3	156
017	135_017	ICAL	pest_3			15-MAY-2006 23:41	1.0		1			4	
018	135_018	ICAL	pest_4			16-MAY-2006 00:10	1.0		1			5	
019	135_019	ICAL	pest_5			16-MAY-2006 00:39	1.0		1			6	
020	135_020	ICAL	pest_6			16-MAY-2006 01:08	1.0					7	
021	135_021	ICAL	pest_7			16-MAY-2006 01:37	1.0					8	
022	135_022	X	hex			16-MAY-2006 02:06	1.0						
023	135_023	ICV	icv			16-MAY-2006 02:35	1.0	1	1			9	
024	135_024	X	icv			16-MAY-2006 03:03	1.0					9	
025	135_025	X	pem			16-MAY-2006 03:32	1.0					1	
026	135_026	X	hex			16-MAY-2006 04:01	1.0						

Stds used: 1=S3206 2=S2827 3=S3283 4=S2996 5=S2997 6=S3111 7=S2828 8=S2823 9=S3067

SEQUENCE SUMMARY FOR 187112 PEST Water
Curtis & Tompkins Laboratories

Sequence: 806219433 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 01-JUN-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	152_001	X	hex			01-JUN-2006 09:13	1.0						
002	152_002	PEM	pem			01-JUN-2006 09:42	1.0	1.0			1	1	
003	152_003	X	pest_4			01-JUN-2006 10:11	1.0	1.0			1	2	
004	152_004	X	pest_4			01-JUN-2006 10:40	1.0	1.0			1	2	
005	152_005	X	pest_4			01-JUN-2006 11:33	1.0	1.0			1	2 ac	
006	152_006	CCV	pest_4			01-JUN-2006 12:08	1.0	1.0	9		1	2	
007	152_007	X	hex			01-JUN-2006 13:12	1.0						
008	152_008	BLANK	QC341995	113929	Water	01-JUN-2006 13:41	1.0	0.01	10		1		
009	152_009	BS	QC341996	113929	Water	01-JUN-2006 14:10	1.0	0.01	10		1		
010	152_010	BSD	QC341997	113929	Water	01-JUN-2006 14:38	1.0	0.01	10	2	1		
011	152_011	SAMPLE	187112-013	113929	Water	01-JUN-2006 15:07	1.0	0.009434	10		1		
012	152_012	SAMPLE	187121-005	113929	Water	01-JUN-2006 15:36	1.0	0.01111	10		1		
013	152_013	SAMPLE	187121-008	113929	Water	01-JUN-2006 16:05	1.0	0.009434	10		1		
014	152_014	SAMPLE	187065-012	113870	Water	01-JUN-2006 16:38	10.0	0.009524	10	2	1		
015	152_015	SAMPLE	187065-013	113870	Water	01-JUN-2006 17:07	10.0	0.009524	10	2	1		
016	152_016	BLANK	QC341960	113922	Soil	01-JUN-2006 17:36	1.0	0.6566	10		1		
017	152_017	LCS	QC341961	113922	Soil	01-JUN-2006 18:05	1.0	0.657	10		1		
019	152_019	PEM	pem			01-JUN-2006 18:35	1.0	1.0			1	1	
020	152_020	X	pest_3			01-JUN-2006 19:04	1.0	1.0			1	3	
021	152_021	CCV	pest_3			01-JUN-2006 19:33	1.0	1.0	2		1	3	
022	152_022	X	pem			01-JUN-2006 20:02	1.0					1	
023	152_023	ICAL	chlordane			01-JUN-2006 20:31	1.0	1.0				4	
024	152_024	X	chlordane			01-JUN-2006 20:59	1.0					4	
025	152_025	SAMPLE	187072-006	113922	Soil	01-JUN-2006 21:28	10.0	0.6723	5		1		
026	152_026	SAMPLE	187072-007	113922	Soil	01-JUN-2006 21:57	10.0	0.6693	5		1		
027	152_027	SAMPLE	187080-001	113922	Soil	01-JUN-2006 22:26	1.0	0.664	5		1		
028	152_028	SAMPLE	187080-002	113922	Soil	01-JUN-2006 22:55	1.0	0.6741	5		1		
029	152_029	SAMPLE	187080-003	113922	Soil	01-JUN-2006 23:24	10.0	0.6627	5		1		
030	152_030	SAMPLE	187080-004	113922	Soil	01-JUN-2006 23:52	5.0	0.6745	5		1		
031	152_031	SAMPLE	187080-005	113922	Soil	02-JUN-2006 00:21	5.0	0.6581	5	2	1		

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Stds used: 1=S3206 2=S2997 3=S2996 4=S3109 5=S3283
Flags used: ac=average CCV drift out

SEQUENCE SUMMARY FOR 187112 PEST Water
Curtis & Tompkins Laboratories

Sequence: 806219433 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 01-JUN-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	152_032	SAMPLE	187080-006	113922	Soil	02-JUN-2006 00:50	5.0	0.6596	5		1		
033	152_033	SAMPLE	187080-009	113922	Soil	02-JUN-2006 01:19	10.0	0.6601	5		1		
034	152_034	SAMPLE	187080-010	113922	Soil	02-JUN-2006 01:47	2.0	0.6636	5		1		
035	152_035	PEM	pem			02-JUN-2006 02:16	1.0	1.0			1	1	
036	152_036	CCV	pest_2			02-JUN-2006 02:45	1.0	1.0	6		1	5	
037	152_037	X	pest_2			02-JUN-2006 03:14	1.0					5	
038	152_038	X	pem			02-JUN-2006 03:43	1.0					1	
039	152_039	CCV	chlordane			02-JUN-2006 04:11	1.0	1.0			1	4	
040	152_040	X	chlordane			02-JUN-2006 04:40	1.0					4	
041	152_041	SAMPLE	187080-011	113922	Soil	02-JUN-2006 05:09	1.0	0.6629	15		1		
042	152_042	SAMPLE	187080-012	113922	Soil	02-JUN-2006 05:37	1.0	0.6698	15		1		
043	152_043	SAMPLE	187080-013	113922	Soil	02-JUN-2006 06:06	1.0	0.6707	15		1		
044	152_044	SAMPLE	187080-014	113922	Soil	02-JUN-2006 06:35	5.0	0.6741	15		1		
045	152_045	SAMPLE	187080-015	113922	Soil	02-JUN-2006 07:04	5.0	0.6669	15		1		
046	152_046	SAMPLE	187080-016	113922	Soil	02-JUN-2006 07:33	1.0	0.6581	15		1		158
047	152_047	MSS	187080-017	113922	Soil	02-JUN-2006 08:01	1.0	0.6658	15		1		
048	152_048	SAMPLE	187080-018	113922	Soil	02-JUN-2006 08:30	5.0	0.6631	15		1		
049	152_049	MS	QC341962	113922	Soil	02-JUN-2006 08:59	1.0	0.6671	16	5	1		
050	152_050	MSD	QC341963	113922	Soil	02-JUN-2006 09:28	1.0	0.6662	16	5	1		
051	152_051	PEM	PEM			02-JUN-2006 09:57	1.0	1.0			1	1	
052	152_052	X	PEST_4			02-JUN-2006 10:25	1.0					2	
053	152_053	CCV	PEST_4			02-JUN-2006 10:55	1.0	1.0	14		1	2	
054	152_054	CCV	CHLORDANE			02-JUN-2006 11:26	1.0	1.0			1	4	
055	152_055	X	CHLORDANE			02-JUN-2006 11:56	1.0					4	
056	152_056	X	HEX			02-JUN-2006 12:24	1.0						
057	152_057	BLANK	QC342321	114014	Soil	02-JUN-2006 13:02	1.0	0.6667	14	3	1		
058	152_058	LCS	QC342322	114014	Soil	02-JUN-2006 13:32	1.0	0.6667	14	28	1		

Stds used: 1=S3206 2=S2997 3=S2996 4=S3109 5=S3283
Flags used: ac=average CCV drift out

REPORTING SUMMARY FOR 187112 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
187112-013	alpha-BHC	GC23	A	06/01/06 15:07
187112-013	beta-BHC	GC23	A	06/01/06 15:07
187112-013	gamma-BHC	GC23	A	06/01/06 15:07
187112-013	delta-BHC	GC23	A	06/01/06 15:07
187112-013	Heptachlor	GC23	A	06/01/06 15:07
187112-013	Aldrin	GC23	A	06/01/06 15:07
187112-013	Heptachlor epoxide	GC23	A	06/01/06 15:07
187112-013	Endosulfan I	GC23	A	06/01/06 15:07
187112-013	Dieldrin	GC23	A	06/01/06 15:07
187112-013	4,4'-DDE	GC23	A	06/01/06 15:07
187112-013	Endrin	GC23	A	06/01/06 15:07
187112-013	Endosulfan II	GC23	A	06/01/06 15:07
187112-013	Endosulfan sulfate	GC23	A	06/01/06 15:07
187112-013	4,4'-DDD	GC23	A	06/01/06 15:07
187112-013	4,4'-DDT	GC23	A	06/01/06 15:07
187112-013	alpha-Chlordane	GC23	A	06/01/06 15:07
187112-013	gamma-Chlordane	GC23	A	06/01/06 15:07
187112-013	Methoxychlor	GC23	A	06/01/06 15:07
187112-013	Endrin ketone	GC23	A	06/01/06 15:07
187112-013	Toxaphene	GC23	A	06/01/06 15:07
187112-013	TCMX	GC23	A	06/01/06 15:07
187112-013	Decachlorobiphenyl	GC23	A	06/01/06 15:07
QC341995	alpha-BHC	GC23	A	06/01/06 13:41
QC341995	beta-BHC	GC23	A	06/01/06 13:41
QC341995	gamma-BHC	GC23	A	06/01/06 13:41
QC341995	delta-BHC	GC23	A	06/01/06 13:41
QC341995	Heptachlor	GC23	A	06/01/06 13:41
QC341995	Aldrin	GC23	A	06/01/06 13:41
QC341995	Heptachlor epoxide	GC23	A	06/01/06 13:41
QC341995	Endosulfan I	GC23	A	06/01/06 13:41
QC341995	Dieldrin	GC23	A	06/01/06 13:41
QC341995	4,4'-DDE	GC23	A	06/01/06 13:41
QC341995	Endrin	GC23	A	06/01/06 13:41
QC341995	Endosulfan II	GC23	A	06/01/06 13:41
QC341995	Endosulfan sulfate	GC23	A	06/01/06 13:41
QC341995	4,4'-DDD	GC23	A	06/01/06 13:41
QC341995	4,4'-DDT	GC23	A	06/01/06 13:41
QC341995	alpha-Chlordane	GC23	A	06/01/06 13:41
QC341995	gamma-Chlordane	GC23	A	06/01/06 13:41
QC341995	Methoxychlor	GC23	A	06/01/06 13:41
QC341995	Endrin ketone	GC23	A	06/01/06 13:41
QC341995	Toxaphene	GC23	A	06/01/06 13:41
QC341995	TCMX	GC23	B	06/01/06 13:41
QC341995	Decachlorobiphenyl	GC23	B	06/01/06 13:41
QC341996	gamma-BHC	GC23	A	06/01/06 14:10
QC341996	Heptachlor	GC23	A	06/01/06 14:10
QC341996	Aldrin	GC23	A	06/01/06 14:10
QC341996	Dieldrin	GC23	A	06/01/06 14:10
QC341996	Endrin	GC23	A	06/01/06 14:10
QC341996	4,4'-DDT	GC23	A	06/01/06 14:10
QC341996	TCMX	GC23	A	06/01/06 14:10
QC341996	Decachlorobiphenyl	GC23	A	06/01/06 14:10

REPORTING SUMMARY FOR 187112 PEST Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC341997	gamma-BHC	GC23	A	06/01/06 14:38
QC341997	Heptachlor	GC23	A	06/01/06 14:38
QC341997	Aldrin	GC23	A	06/01/06 14:38
QC341997	Dieldrin	GC23	A	06/01/06 14:38
QC341997	Endrin	GC23	A	06/01/06 14:38
QC341997	4,4'-DDT	GC23	A	06/01/06 14:38
QC341997	TCMX	GC23	A	06/01/06 14:38
QC341997	Decachlorobiphenyl	GC23	A	06/01/06 14:38

Curtis & Tompkins Laboratories **Sample Preparation Summary** **02-JUN-2006 06:40**

Batch Number : 113929
Date Extracted: 30-MAY-2006
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : 8081
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S3509B
Spike #2 ID : S3474A
Spike #3 ID :
SOP Version : 8081w_rv14

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
187112-013		Treadwell & Rollo	Water	1060	mL	10	0.009434	1	6	.025	0		8081		
187121-005		Treadwell & Rollo	Water	900	mL	10	0.011111	1	6	.025	0		8081		
187121-008		Treadwell & Rollo	Water	1060	mL	10	0.009434	1	6	.025	0		8081		
QC341995	BLANK		Water	1000	mL	10	0.010000	1		.025	0		8081		
QC341996	BS		Water	1000	mL	10	0.010000	1		.025	.025		8081		
QC341997	BSD		Water	1000	mL	10	0.010000	1		.025	.025		8081		

Prep Chemist: Jessie O'Mee Reviewed By: KRey Date: 2 JUN 06

Relinquished By: JOM for KR Received By: [illegible] Date: 06/02/06

Curtis & Tompkins, Ltd

8081 WATER PREP LOG

BK2210

LIMS Batch No: 113929
LIMS Analysis: 8081
Extracted by: JOM
Date Extracted: 30 May 06

Extraction Method:
- ☐ EPA 3510c sep. funnel
- ☑ EPA 3520c cont. L/L
- ☐ _____

Cleanup Method (if needed):
- ☐ EPA 3640a GPC
- ☐ EPA 3620b Florisil
- ☐ _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
187112-013 T	1060	6	10.0		
187121-005 B	900	↓	↓		
↓ 08 A	1060	↓	↓		
MB QC341995	1000	NA	↓		
BS ↓ 96	↓	↓	↓		
BSD ↓ 97	↓	↓	↓		

JOM 6/1/06

0.025 mL of surrogate solution was added to all samples
0.025 mL of matrix spike solution was added to all spikes
☑ Samples continuously extracted with about 450 mL of CH_2Cl_2
Extraction Start Time: 1500
Extraction End Time: 0920
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2
Extracts filtered through baked, CH_2Cl_2 rinsed ~~powdered~~ granular Na_2SO_4
Exchanged 2x with Hexane
Concentrated: ☑ to volumes as noted above ☐ to clean-up volume
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Florisil

Mfg & Lot# / LIMS # / Time	Date/ Initials
S3509B	JOM 5/30/06
S3474B	↓
EM46069	↓
1500	↓
0920	JOM 5/31/06
NA	RPW 5/31/06
EM45091549	↓
CQ054	↓
✓	↓
NA	↓

Jennifer Lee 5/30/06
Extraction Chemist Date

Contined from Page —
Continued on Page —

K Rly 2 JUN 06
Reviewed by Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8081A Water
As of 07/05/06

Analyte	Units	GC16 A	GC16 B	GC21 A	GC21 B	GC23 A	GC23 B
gamma-BHC	ug/L	0.0032	0.0025	0.0065	0.0039	0.0029	0.0039
Heptachlor	ug/L	0.0057	0.0061	0.0083	0.0056	0.0029	0.0055
Aldrin	ug/L	0.0066	0.0066	0.0094	0.0070	0.0062	0.0077
Dieldrin	ug/L	0.0074	0.0070	0.011	0.0051	0.0041	0.0097
Endrin	ug/L	0.0095	0.0083	0.012	0.011	0.0054	0.011
4,4'-DDT	ug/L	0.011	0.0099	0.012	0.0071	0.0088	0.0087
alpha-BHC	ug/L	0.0029	0.0027	0.0063	0.0040	0.0032	0.0049
beta-BHC	ug/L	0.0033	0.0052	0.0061	0.011	0.0029	0.0055
delta-BHC	ug/L	0.0040	0.0026	0.0065	0.0023	0.0018	0.0041
Heptachlor epoxide	ug/L	0.0033	0.0032	0.0066	0.0097	0.0028	0.0044
gamma-Chlordane	ug/L	0.0041	0.0037	0.0064	0.011	0.0020	0.0042
alpha-Chlordane	ug/L	0.0045	0.0036	0.010	0.0052	0.0023	0.0052
Endosulfan I	ug/L	0.0043	0.0032	0.0062	0.0033	0.0026	0.0048
4,4'-DDE	ug/L	0.010	0.0082	0.011	0.0057	0.0045	0.0097
Endosulfan II	ug/L	0.0088	0.0073	0.013	0.0077	0.0066	0.0097
Endosulfan sulfate	ug/L	0.015	0.0087	0.0096	0.0054	0.0054	0.0093
4,4'-DDD	ug/L	0.0088	0.0090	0.011	0.0096	0.0033	0.010
Endrin aldehyde	ug/L	0.0084	0.0086	0.010	0.0092	0.0052	0.0088
Chlordane (Technical)	ug/L	0.19	0.19	0.26	0.21	0.17	0.21
Methoxychlor	ug/L	0.057	0.080	0.050	0.018	0.043	0.051
Endrin ketone	ug/L	0.027	0.0095	0.0083	0.023	0.0051	0.015
Toxaphene	ug/L	0.39	0.34	0.49	0.26	0.54	0.29

POLYAROMATIC HYDROCARBONS

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	514AGW101	Batch#:	114043
Lab ID:	187112-001	Sampled:	05/25/06
Matrix:	Water	Received:	05/26/06
Units:	ug/L	Prepared:	06/01/06
Diln Fac:	1.000	Analyzed:	06/06/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.02
Fluoranthene	0.04 J	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	87	65-135
1-Methylnaphthalene (F)	89	65-135

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	DW052506A	Batch#:	114043
Lab ID:	187112-013	Sampled:	05/25/06
Matrix:	Water	Received:	05/26/06
Units:	ug/L	Prepared:	06/01/06
Diln Fac:	1.000	Analyzed:	06/06/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.02
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	86	65-135
1-Methylnaphthalene (F)	88	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC342453	Batch#:	114043
Matrix:	Water	Prepared:	06/01/06
Units:	ug/L	Analyzed:	06/06/06

Analyte	Result	RL	MDL
Naphthalene	ND	1.0	
Acenaphthylene	ND	2.0	
Acenaphthene	ND	1.0	
Fluorene	ND	1.0	
Phenanthrene	ND	0.50	
Anthracene	ND	0.50	0.02
Fluoranthene	ND	0.40	0.01
Pyrene	ND	0.20	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	92	65-135
1-Methylnaphthalene (F)	94	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Matrix:	Water	Batch#:	114043
Units:	ug/L	Prepared:	06/01/06
Diln Fac:	1.000	Analyzed:	06/06/06

Type: BS Lab ID: QC342454

Analyte	Spiked	Result	%REC	Limits
Naphthalene	10.00	8.713	87	50-135
Fluorene	2.000	1.831	92	65-135
Pyrene	1.000	0.9552	96	65-135
Benzo(a)pyrene	1.000	0.9139	91	65-135

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	87	65-135
1-Methylnaphthalene (F)	90	65-135

Type: BSD Lab ID: QC342455

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Naphthalene	10.00	8.174	82	50-135	6	35
Fluorene	2.000	1.695	85	65-135	8	35
Pyrene	1.000	0.8789	88	65-135	8	35
Benzo(a)pyrene	1.000	0.7980	80	65-135	14	35

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	80	65-135
1-Methylnaphthalene (F)	83	65-135

RPD= Relative Percent Difference

Confirmation Report for 187112 HPLC Water
Curtis & Tompkins Laboratories

Units: ug/L

Lab ID	Client ID	Analyte	Result	Confirmation	RPD	%D
187112-001	514AGW101	Fluoranthene	0.04372 J	0.2009	128	359

J=estimated

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187112 HPLC Water: EPA 8310

Inst : HPLC04
Calnum : 296199754001
Units : ug/L

Date : 18-MAY-2006 19:52
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	13800006	296199754006		18-MAY-2006 19:52	S3065
L2	13800007	296199754007		18-MAY-2006 20:24	S3064
L3	13800008	296199754008		18-MAY-2006 20:56	S3063
L4	13800009	296199754009		18-MAY-2006 21:27	S3062
L5	13800010	296199754010		18-MAY-2006 21:59	S3061
L6	13800011	296199754011		18-MAY-2006 22:31	S3060
L7	13800012	296199754012		18-MAY-2006 23:02	S3059

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Naphthalene	1	0.0127	0.0132	0.0131	0.0132	0.0131	0.0130	0.0129	LINR	-52.228	77.4002		0.0130	1.000	0.99	20	
Acenaphthylene	1	0.0092	0.0093	0.0094	0.0095	0.0094	0.0092	0.0091	LINR	-269.75	109.800		0.0093	1.000	0.99	20	
Acenaphthene	1	0.0052	0.0052	0.0052	0.0054	0.0053	0.0052	0.0051	LINR	-189.44	195.810		0.0052	1.000	0.99	20	
Fluorene	1	0.0627	0.0624	0.0622	0.0635	0.0628	0.0627	0.0625	LINR	-5.8158	16.0057		0.0627	1.000	0.99	20	
Phenanthrene	1	0.1770	0.1795	0.1810	0.1828	0.1804	0.1795	0.1796	LINR	-2.6724	5.57221		0.1800	1.000	0.99	20	
Anthracene	1	0.4152	0.4253	0.4257	0.4310	0.4281	0.4249	0.4232	LINR	-4.5965	2.36313		0.4248	1.000	0.99	20	
Fluoranthene	1	0.0412	0.0411	0.0410	0.0412	0.0406	0.0406	0.0407	LINR	-3.4660	24.6116		0.0409	1.000	0.99	20	
Pyrene	1	0.0368	0.0344	0.0333	0.0343	0.0336	0.0336	0.0338	LINR	-0.0362	29.6394		0.0342	1.000	0.99	20	
Benzo(a)anthracene	1	0.0900	0.0968	0.0940	0.0956	0.0948	0.0945	0.0948	LINR	0.57638	10.5497		0.0943	1.000	0.99	20	
Chrysene	1	0.1270	0.1360	0.1344	0.1356	0.1346	0.1336	0.1335	LINR	-3.4437	7.49542		0.1335	1.000	0.99	20	
Benzo(b)fluoranthene	1	0.1037	0.1043	0.1063	0.1075	0.1067	0.1065	0.1063	LINR	-2.9110	9.40726		0.1059	1.000	0.99	20	
Benzo(k)fluoranthene	1	0.0788	0.0790	0.0823	0.0837	0.0837	0.0836	0.0835	LINR	1.73999	11.9711		0.0821	1.000	0.99	20	
Benzo(a)pyrene	1	0.0878	0.0823	0.0860	0.0884	0.0876	0.0881	0.0886	LINR	6.09778	11.2895		0.0870	1.000	0.99	20	
Dibenz(a,h)anthracene	1	0.0186	0.0202	0.0213	0.0218	0.0220	0.0221	0.0223	LINR	23.8574	44.7933		0.0212	1.000	0.99	20	
Benzo(g,h,i)perylene	1	0.0317	0.0340	0.0353	0.0359	0.0358	0.0363	0.0368	LINR	28.4784	27.1931		0.0351	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	1	0.0880	0.0965	0.0978	0.1005	0.0999	0.1003	0.1005	LINR	4.90163	9.94487		0.0976	1.000	0.99	20	
1-Methylnaphthalene (UV)	1	0.0086	0.0086	0.0086	0.0087	0.0085	0.0084	0.0084	LINR	-341.04	119.464		0.0085	1.000	0.99	20	
Acenaphthylene	2	0.0277	0.0280	0.0280	0.0283	0.0280	0.0278	0.0278	LINR	-84.965	36.0430		0.0279	1.000	0.99	20	
1-Methylnaphthalene (UV)	2	0.0030	0.0031	0.0031	0.0031	0.0031	0.0030	0.0030	LINR	-288.17	330.724		0.0031	1.000	0.99	20	
Naphthalene	3	0.0110	0.0111	0.0111	0.0112	0.0110	0.0110	0.0109	LINR	-50.394	91.4049		0.0110	1.000	0.99	20	
Acenaphthene	3	0.0234	0.0236	0.0235	0.0239	0.0233	0.0231	0.0226	LINR	-178.43	44.2064		0.0233	1.000	0.99	20	
Fluorene	3	0.1279	0.1273	0.1274	0.1284	0.1265	0.1243	0.1225	LINR	-32.341	8.16717		0.1263	1.000	0.99	20	
Phenanthrene	3	0.1354	0.1366	0.1364	0.1377	0.1361	0.1356	0.1354	LINR	-3.3588	7.38874		0.1362	1.000	0.99	20	
Anthracene	3	0.4199	0.4224	0.4266	0.4322	0.4290	0.4269	0.4268	LINR	-1.7330	2.34358		0.4263	1.000	0.99	20	
Fluoranthene	3	0.0382	0.0384	0.0386	0.0392	0.0388	0.0387	0.0387	LINR	-1.5194	25.8283		0.0387	1.000	0.99	20	
Pyrene	3	0.1308	0.1311	0.1332	0.1355	0.1333	0.1340	0.1343	LINR	1.83815	7.44901		0.1332	1.000	0.99	20	

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Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Benzo(a)anthracene	3	0.1489	0.1515	0.1523	0.1536	0.1520	0.1512	0.1508	LINR	-3.9150	6.63150		0.1515	1.000	0.99	20	
Chrysene	3	0.1787	0.1811	0.1815	0.1828	0.1806	0.1793	0.1780	LINR	-7.8225	5.62009		0.1803	1.000	0.99	20	
Benzo(b)fluoranthene	3	0.0628	0.0642	0.0647	0.0654	0.0646	0.0644	0.0641	LINR	-9.1941	15.6059		0.0643	1.000	0.99	20	
Benzo(k)fluoranthene	3	0.3857	0.3920	0.3949	0.3978	0.3926	0.3879	0.3820	LINR	-13.766	2.61710		0.3904	1.000	0.99	20	
Benzo(a)pyrene	3	0.2089	0.2127	0.2141	0.2165	0.2143	0.2129	0.2128	LINR	-3.0160	4.70028		0.2132	1.000	0.99	20	
Dibenz(a,h)anthracene	3	0.0303	0.0301	0.0308	0.0318	0.0315	0.0316	0.0317	LINR	9.18553	31.5065		0.0311	1.000	0.99	20	
Benzo(g,h,i)perylene	3	0.0608	0.0590	0.0602	0.0618	0.0617	0.0624	0.0631	LINR	24.3223	15.8303		0.0613	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	3	0.0962	0.0968	0.0965	0.0983	0.0975	0.0975	0.0971	LINR	-1.8455	10.2902		0.0971	1.000	0.99	20	
1-Methylnaphthalene (F)	3	0.0122	0.0123	0.0123	0.0124	0.0122	0.0120	0.0118	LINR	-661.87	84.7083		0.0122	1.000	0.99	20	

Instrument amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

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Calibration Table

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NEW ICAL FOLLOWING REPLACEMENT OF UV LAMP. JM 22MAY2006

HPLC04 METHOD 8310

Calib. Data Modified : 5/22/2006 4:16:03 PM

Calculate : External Standard
Based on : Peak Area

Rel. Reference Window : 1.000 %
Abs. Reference Window : 0.200 min
Rel. Non-ref. Window : 1.000 %
Abs. Non-ref. Window : 0.250 min
Do not use Multiplier & Dilution Factor with ISTDs
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Signal 1: DAD1 A, Sig=254,4 Ref=480,80
Signal 2: DAD1 B, Sig=305,4 Ref=480,80
Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
4.752	1	1	500.00000	6.35383	78.69275			Naphthalene
		2	1000.00000	13.15704	76.00496			
		3	2500.00000	32.77972	76.26668			
		4	5000.00000	66.00784	75.74857			
		5	1.00000e4	130.71696	76.50116			
		6	2.50000e4	323.77454	77.21423			
		7	5.00000e4	646.40033	77.35145			
4.790	3	1	500.00000	5.48376	91.17835			Naphthalene
		2	1000.00000	11.08296	90.22864			
		3	2500.00000	27.68407	90.30465			
		4	5000.00000	55.85367	89.51963			
		5	1.00000e4	110.44406	90.54357			
		6	2.50000e4	274.47531	91.08287			
		7	5.00000e4	547.22638	91.36986			
6.004	1	1	1000.00000	9.18307	108.89603			Acenaphthylene
		2	2000.00000	18.68859	107.01715			
		3	5000.00000	46.93712	106.52549			
		4	1.00000e4	94.78723	105.49944			
		5	2.00000e4	187.08742	106.90190			
		6	5.00000e4	462.20984	108.17598			
		7	1.00000e5	910.50854	109.82873			
6.005	2	1	1000.00000	27.65381	36.16138			Acenaphthylene
		2	2000.00000	56.04304	35.68686			
		3	5000.00000	140.16672	35.67181			

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		4	1.00000e4	282.77841	35.36338			
		5	2.00000e4	559.61334	35.73896			
		6	5.00000e4	1390.57104	35.95645			
		7	1.00000e5	2775.66528	36.02740			
6.773	1	1	2000.00000	17.19066	116.34227			1-Methylnaphthalene (UV)
		2	4000.00000	34.41462	116.22969			
		3	1.00000e4	85.94093	116.35899			
		4	2.00000e4	173.09207	115.54544			
		5	4.00000e4	340.84924	117.35394			
		6	1.00000e5	839.48529	119.12061			
		7	2.00000e5	1676.38977	119.30400			
6.774	2	1	2000.00000	6.06443	329.79188			1-Methylnaphthalene (UV)
		2	4000.00000	12.31411	324.83055			
		3	1.00000e4	30.67977	325.94769			
		4	2.00000e4	61.92251	322.98433			
		5	4.00000e4	122.83121	325.65012			
		6	1.00000e5	304.35931	328.55903			
		7	2.00000e5	604.82648	330.67335			
6.811	3	1	2000.00000	24.40978	81.93437			1-Methylnaphthalene (F)
		2	4000.00000	49.21495	81.27612			
		3	1.00000e4	122.94567	81.33674			
		4	2.00000e4	247.30377	80.87220			
		5	4.00000e4	488.69351	81.85089			
		6	1.00000e5	1199.20923	83.38828			
		7	2.00000e5	2361.67969	84.68549			
7.233	1	1	500.00000	5.96680	83.79698			2-Methylnaphthalene
		2	1000.00000	11.99022	83.40130			
		3	2500.00000	29.85911	83.72654			
		4	5000.00000	60.88431	82.12296			
		5	1.00000e4	120.14920	83.22985			
		6	2.50000e4	297.53644	84.02332			
7.269	3	1	500.00000	7.74911	64.52351			2-Methylnaphthalene
		2	1000.00000	15.52372	64.41757			
		3	2500.00000	38.81281	64.41172			
		4	5000.00000	78.28068	63.87272			
		5	1.00000e4	154.78474	64.60585			
		6	2.50000e4	382.29327	65.39482			
7.613	1	1	500.00000	2.59693	192.53514			Acenaphthene
		2	1000.00000	5.17957	193.06637			
		3	2500.00000	13.08239	191.09658			
		4	5000.00000	26.89059	185.93866			
		5	1.00000e4	53.03941	188.53907			
		6	2.50000e4	131.16444	190.60043			
		7	5.00000e4	254.87729	196.17283			
7.651	3	1	500.00000	11.70526	42.71583			Acenaphthene
		2	1000.00000	23.56936	42.42797			
		3	2500.00000	58.84945	42.48128			
		4	5000.00000	119.32713	41.90162			
		5	1.00000e4	233.17419	42.88639			
		6	2.50000e4	577.51837	43.28867			
		7	5.00000e4	1130.49866	44.22827			
8.138	1	1	100.00000	6.27447	15.93759			Fluorene
		2	200.00000	12.48572	16.01830			
		3	500.00000	31.10701	16.07355			
		4	1000.00000	63.54686	15.73642			
		5	2000.00000	125.67238	15.91440			
		6	5000.00000	313.25665	15.96135			
		7	1.00000e4	624.78467	16.00551			
8.176	3	1	100.00000	12.79477	7.81570			Fluorene
		2	200.00000	25.46982	7.85243			
		3	500.00000	63.67719	7.85210			
		4	1000.00000	128.43744	7.78589			
		5	2000.00000	252.91112	7.90792			

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		6	5000.00000	621.43634	8.04588			
		7	1.00000e4	1224.89038	8.16400			
9.260	1	1	50.00000	8.85156	5.64872			Phenanthrene
		2	100.00000	17.94612	5.57224			
		3	250.00000	45.25932	5.52372			
		4	500.00000	91.37579	5.47191			
		5	1000.00000	180.36794	5.54422			
		6	2500.00000	448.64795	5.57230			
		7	5000.00000	897.85052	5.56886			
9.297	3	1	50.00000	6.77231	7.38301			Phenanthrene
		2	100.00000	13.66179	7.31969			
		3	250.00000	34.08815	7.33393			
		4	500.00000	68.83022	7.26425			
		5	1000.00000	136.09827	7.34763			
		6	2500.00000	338.96707	7.37535			
		7	5000.00000	676.96960	7.38586			
10.285	1	1	50.00000	20.75930	2.40856			Anthracene
		2	100.00000	42.52945	2.35131			
		3	250.00000	106.41690	2.34925			
		4	500.00000	215.48436	2.32035			
		5	1000.00000	428.09290	2.33594			
		6	2500.00000	1062.12512	2.35377			
		7	5000.00000	2115.98950	2.36296			
10.323	3	1	50.00000	20.99740	2.38125			Anthracene
		2	100.00000	42.23863	2.36750			
		3	250.00000	106.64105	2.34431			
		4	500.00000	216.08749	2.31388			
		5	1000.00000	428.97952	2.33111			
		6	2500.00000	1067.30798	2.34234			
		7	5000.00000	2133.87500	2.34316			
11.435	1	1	100.00000	4.12269	24.25600			Fluoranthene
		2	200.00000	8.21146	24.35620			
		3	500.00000	20.48045	24.41353			
		4	1000.00000	41.23911	24.24883			
		5	2000.00000	81.15630	24.64380			
		6	5000.00000	203.07642	24.62127			
		7	1.00000e4	406.56757	24.59616			
11.472	3	1	100.00000	3.82083	26.17234			Fluoranthene
		2	200.00000	7.68846	26.01302			
		3	500.00000	19.30645	25.89808			
		4	1000.00000	39.23374	25.48827			
		5	2000.00000	77.62599	25.76457			
		6	5000.00000	193.25951	25.87195			
		7	1.00000e4	387.35989	25.81579			
12.208	1	1	50.00000	1.83995	27.17468			Pyrene
		2	100.00000	3.43952	29.07386			
		3	250.00000	8.33079	30.00916			
		4	500.00000	17.14116	29.16955			
		5	1000.00000	33.56740	29.79081			
		6	2500.00000	83.91055	29.79363			
		7	5000.00000	168.92415	29.59908			
12.245	3	1	50.00000	6.53807	7.64751			Pyrene
		2	100.00000	13.11404	7.62541			
		3	250.00000	33.29245	7.50921			
		4	500.00000	67.75372	7.37967			
		5	1000.00000	133.33412	7.49996			
		6	2500.00000	334.87701	7.46543			
		7	5000.00000	671.27612	7.44850			
15.039	1	1	50.00000	4.49803	11.11598			Benzo(a)anthracene
		2	100.00000	9.67921	10.33142			
		3	250.00000	23.48936	10.64311			
		4	500.00000	47.78680	10.46314			
		5	1000.00000	94.79131	10.54949			

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		6	2500.00000	236.18423	10.58496			
		7	5000.00000	474.20624	10.54394			
15.077	3	1	50.00000	7.44724	6.71390			Benzo(a)anthracene
		2	100.00000	15.15430	6.59879			
		3	250.00000	38.07673	6.56569			
		4	500.00000	76.80959	6.50960			
		5	1000.00000	151.99316	6.57924			
		6	2500.00000	377.89438	6.61561			
		7	5000.00000	754.23340	6.62925			
15.539	1	1	50.00000	6.35061	7.87325			Chrysene
		2	100.00000	13.59609	7.35506			
		3	250.00000	33.59677	7.44119			
		4	500.00000	67.79062	7.37565			
		5	1000.00000	134.58353	7.43033			
		6	2500.00000	334.09467	7.48291			
		7	5000.00000	667.30255	7.49285			
15.577	3	1	50.00000	8.93709	5.59467			Chrysene
		2	100.00000	18.11283	5.52095			
		3	250.00000	45.37164	5.51005			
		4	500.00000	91.38473	5.47137			
		5	1000.00000	180.56219	5.53826			
		6	2500.00000	448.13257	5.57871			
		7	5000.00000	889.81403	5.61915			
17.772	1	1	100.00000	10.36747	9.64555			Benzo(b)fluoranthene
		2	200.00000	20.85804	9.58863			
		3	500.00000	53.17228	9.40340			
		4	1000.00000	107.52938	9.29978			
		5	2000.00000	213.44913	9.36991			
		6	5000.00000	532.37317	9.39191			
		7	1.00000e4	1062.87402	9.40845			
17.810	3	1	100.00000	6.27574	15.93439			Benzo(b)fluoranthene
		2	200.00000	12.83850	15.57814			
		3	500.00000	32.34958	15.45615			
		4	1000.00000	65.39377	15.29198			
		5	2000.00000	129.20119	15.47973			
		6	5000.00000	322.01157	15.52739			
		7	1.00000e4	640.72485	15.60732			
18.726	1	1	50.00000	3.94109	12.68686			Benzo(k)fluoranthene
		2	100.00000	7.89588	12.66483			
		3	250.00000	20.57043	12.15337			
		4	500.00000	41.83699	11.95115			
		5	1000.00000	83.72203	11.94429			
		6	2500.00000	208.88004	11.96859			
		7	5000.00000	417.35922	11.98009			
18.764	3	1	50.00000	19.28471	2.59273			Benzo(k)fluoranthene
		2	100.00000	39.20409	2.55075			
		3	250.00000	98.73430	2.53205			
		4	500.00000	198.87831	2.51410			
		5	1000.00000	392.59399	2.54716			
		6	2500.00000	969.84100	2.57774			
		7	5000.00000	1910.04431	2.61774			
19.676	1	1	50.00000	4.38903	11.39205			Benzo(a)pyrene
		2	100.00000	8.22974	12.15105			
		3	250.00000	21.51167	11.62160			
		4	500.00000	44.20454	11.31105			
		5	1000.00000	87.60189	11.41528			
		6	2500.00000	220.13969	11.35643			
		7	5000.00000	442.77490	11.29242			
19.714	3	1	50.00000	10.44253	4.78811			Benzo(a)pyrene
		2	100.00000	21.26584	4.70238			
		3	250.00000	53.53555	4.66979			
		4	500.00000	108.22565	4.61998			
		5	1000.00000	214.33957	4.66549			

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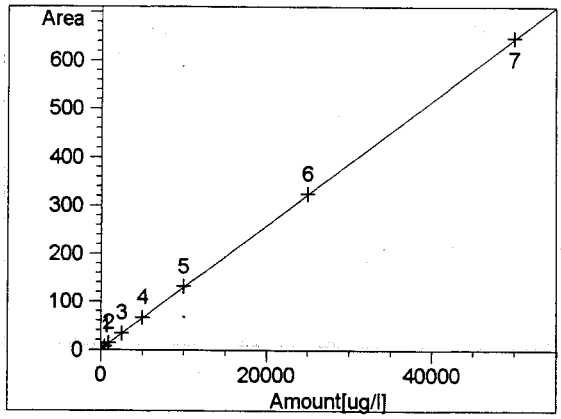
Method G:\HPLC4\METHODS\8310-138.M

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		6	2500.00000	532.33307	4.69631			
		7	5000.00000	1064.23083	4.69823			
21.294	1	1	100.00000	1.86005	53.76185			Dibenz(a,h)anthracene
		2	200.00000	4.03761	49.53425			
		3	500.00000	10.67297	46.84733			
		4	1000.00000	21.81421	45.84168			
		5	2000.00000	44.01789	45.43607			
		6	5000.00000	110.60422	45.20623			
		7	1.00000e4	222.97006	44.84907			
21.332	3	1	100.00000	3.03149	32.98710			Dibenz(a,h)anthracene
		2	200.00000	6.02086	33.21784			
		3	500.00000	15.37518	32.51994			
		4	1000.00000	31.83378	31.41317			
		5	2000.00000	63.06483	31.71339			
		6	5000.00000	158.06801	31.63195			
		7	1.00000e4	317.26797	31.51910			
22.074	1	1	100.00000	3.17288	31.51711			Benzo(g,h,i)perylene
		2	200.00000	6.79410	29.43731			
		3	500.00000	17.66954	28.29729			
		4	1000.00000	35.90152	27.85397			
		5	2000.00000	71.56614	27.94618			
		6	5000.00000	181.34886	27.57117			
		7	1.00000e4	367.56784	27.20586			
22.111	3	1	100.00000	6.08162	16.44298			Benzo(g,h,i)perylene
		2	200.00000	11.79889	16.95075			
		3	500.00000	30.11854	16.60107			
		4	1000.00000	61.84187	16.17027			
		5	2000.00000	123.34122	16.21518			
		6	5000.00000	312.19437	16.01566			
		7	1.00000e4	631.46387	15.83622			
22.588	1	1	50.00000	4.39845	11.36763			Indeno(1,2,3-cd)pyrene
		2	100.00000	9.64680	10.36613			
		3	250.00000	24.43922	10.22946			
		4	500.00000	50.25140	9.94997			
		5	1000.00000	99.94793	10.00521			
		6	2500.00000	250.73134	9.97083			
		7	5000.00000	502.34595	9.95330			
22.626	3	1	50.00000	4.81022	10.39454			Indeno(1,2,3-cd)pyrene
		2	100.00000	9.68046	10.33008			
		3	250.00000	24.11350	10.36764			
		4	500.00000	49.15816	10.17125			
		5	1000.00000	97.53080	10.25317			
		6	2500.00000	243.71762	10.25777			
		7	5000.00000	485.73682	10.29364			

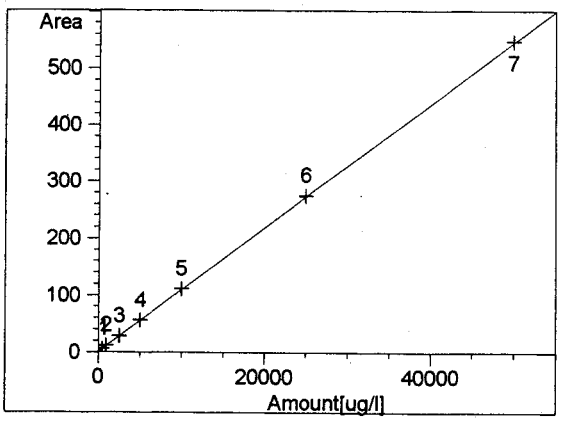
Peak Sum Table

No Entries in table

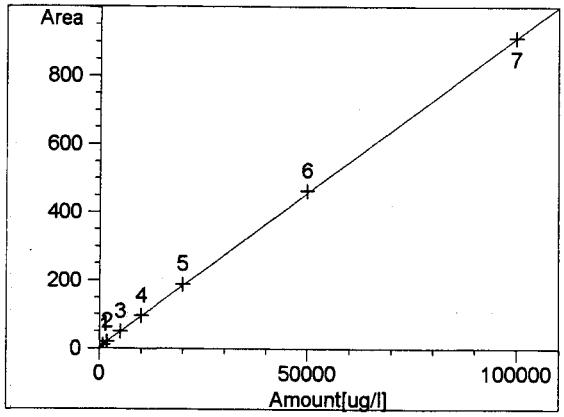
Calibration Curves



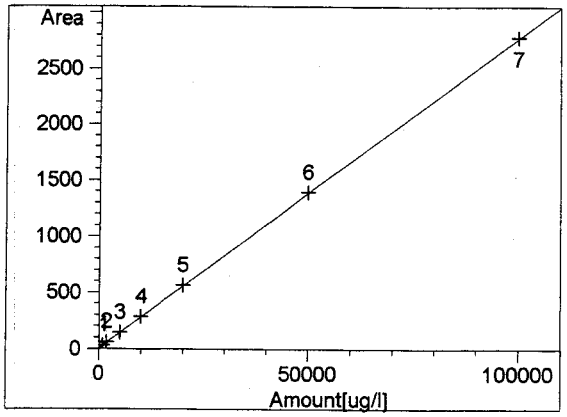
Naphthalene at exp. RT: 4.752
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.65900
Formula: y = mx + b
m: 1.29199e-2
b: 6.74777e-1
x: Amount[ug/l]
y: Area



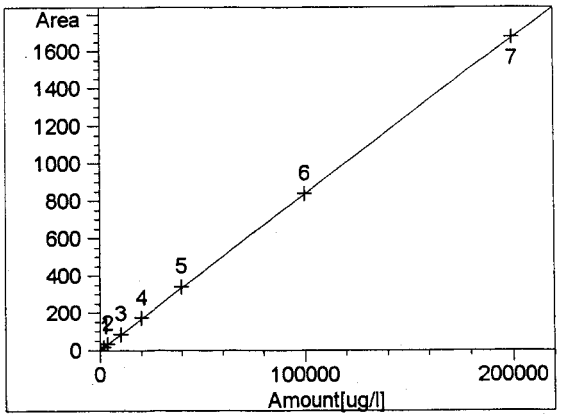
Naphthalene at exp. RT: 4.790
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.52793
Formula: y = mx + b
m: 1.09403e-2
b: 5.51329e-1
x: Amount[ug/l]
y: Area



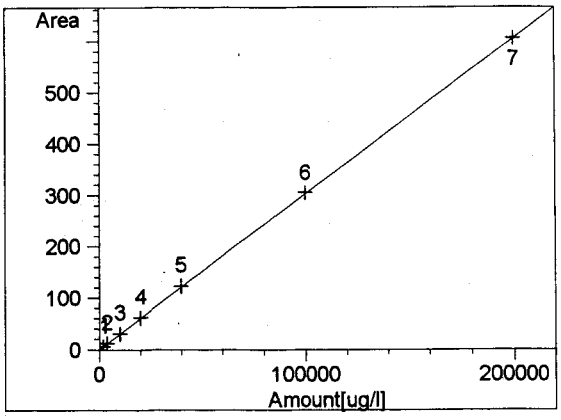
Acenaphthylene at exp. RT: 6.004
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 2.99661
Formula: y = mx + b
m: 9.10747e-3
b: 2.45677
x: Amount[ug/l]
y: Area



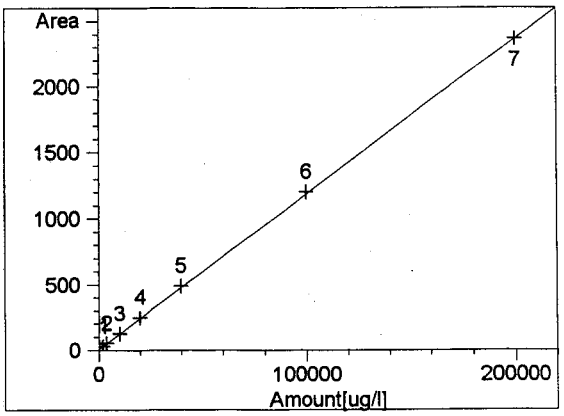
Acenaphthylene at exp. RT: 6.005
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 2.31582
Formula: y = mx + b
m: 2.77446e-2
b: 2.35731
x: Amount[ug/l]
y: Area



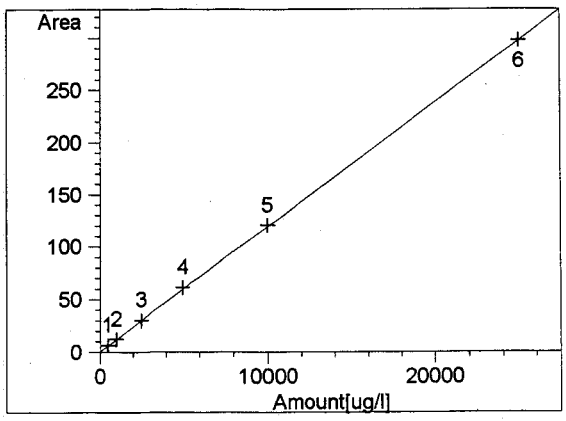
1-Methylnaphthalene (UV) at exp. RT: 6.773
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 2.38438
Formula: y = mx + b
m: 8.37069e-3
b: 2.85473
x: Amount[ug/l]
y: Area



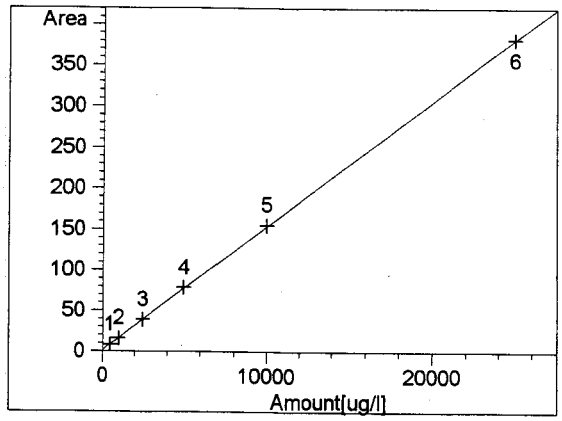
1-Methylnaphthalene (UV) at exp. RT: 6.774
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.95514
Formula: y = mx + b
m: 3.02367e-3
b: 8.71326e-1
x: Amount[ug/l]
y: Area



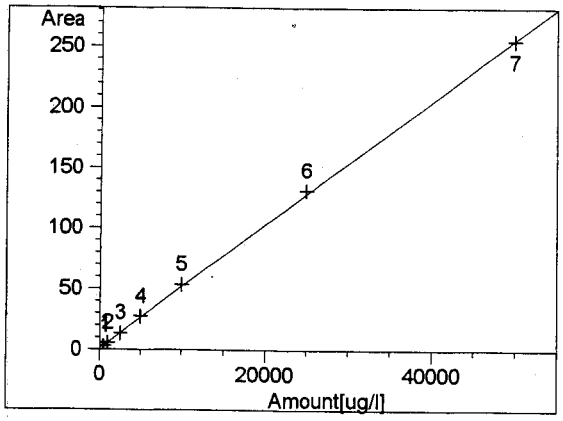
1-Methylnaphthalene (F) at exp. RT: 6.811
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 8.34271
Formula: y = mx + b
m: 1.18052e-2
b: 7.81357
x: Amount[ug/l]
y: Area



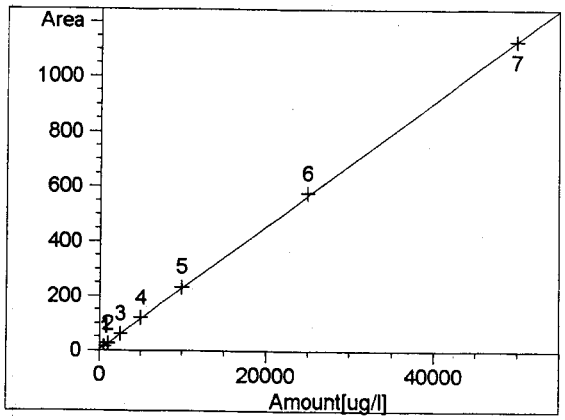
2-Methylnaphthalene at exp. RT: 7.233
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.70066
Formula: y = mx + b
m: 1.18983e-2
b: 4.76749e-1
x: Amount[ug/l]
y: Area



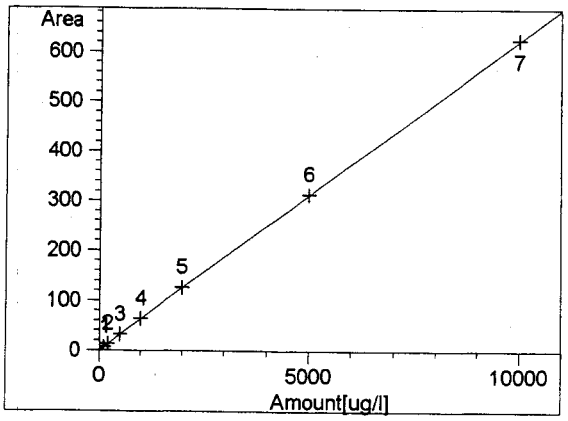
2-Methylnaphthalene at exp. RT: 7.269
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99998
Residual Std. Dev.: 0.95275
Formula: y = mx + b
m: 1.52819e-2
b: 8.39982e-1
x: Amount[ug/l]
y: Area



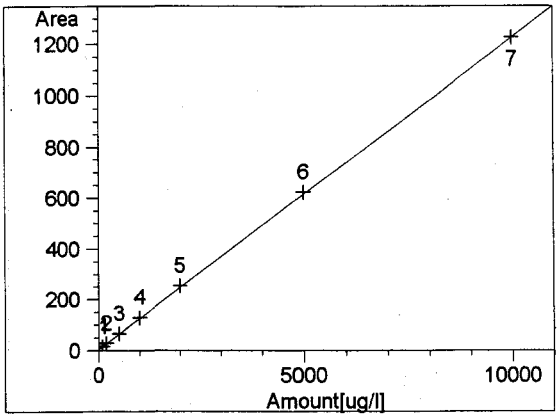
Acenaphthene at exp. RT: 7.613
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99989
Residual Std. Dev.: 1.52771
Formula: y = mx + b
m: 5.10700e-3
b: 9.67465e-1
x: Amount[ug/l]
y: Area



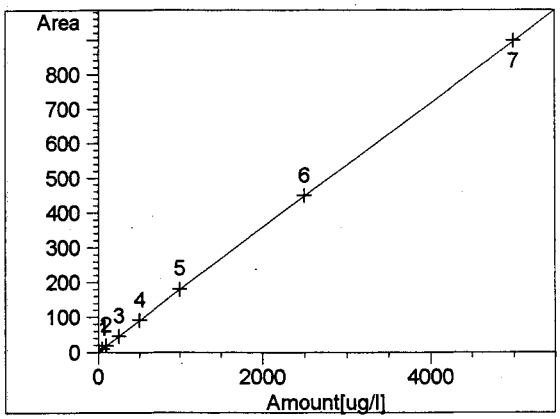
Acenaphthene at exp. RT: 7.651
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99994
Residual Std. Dev.: 4.97058
Formula: y = mx + b
m: 2.26212e-2
b: 4.03630
x: Amount[ug/l]
y: Area



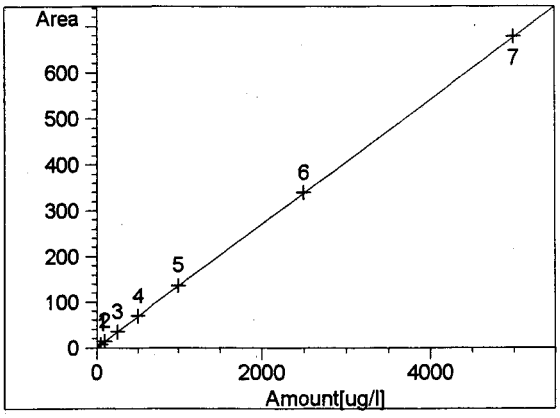
Fluorene at exp. RT: 8.138
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.54815
Formula: y = mx + b
m: 6.24779e-2
b: 3.63360e-1
x: Amount[ug/l]
y: Area



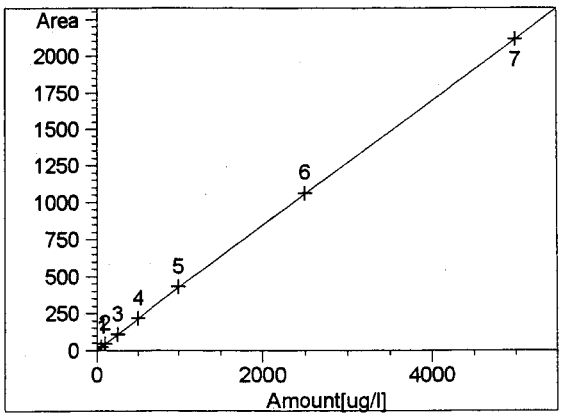
Fluorene at exp. RT: 8.176
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99997
Residual Std. Dev.: 4.08298
Formula: y = mx + b
m: 1.22441e-1
b: 3.95988
x: Amount[ug/l]
y: Area



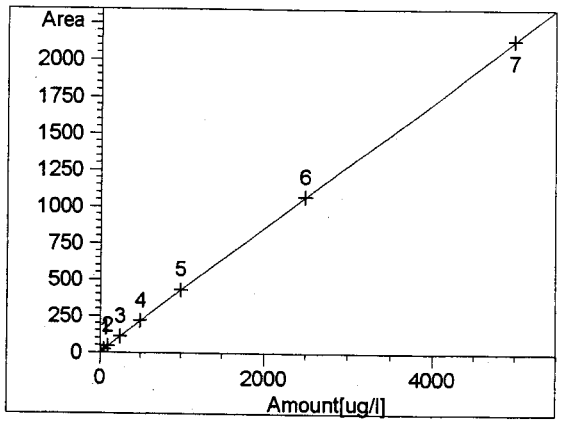
Phenanthrene at exp. RT: 9.260
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.68975
Formula: y = mx + b
m: 1.79462e-1
b: 4.79584e-1
x: Amount[ug/l]
y: Area



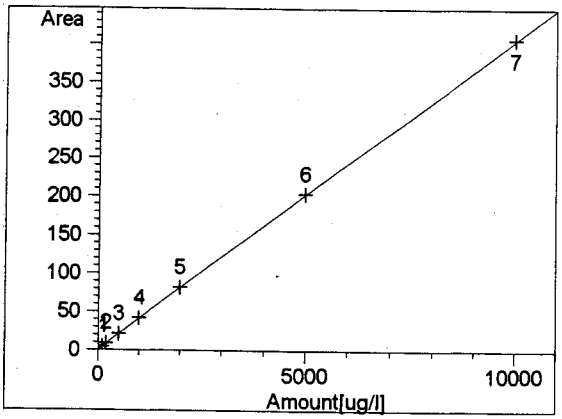
Phenanthrene at exp. RT: 9.297
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.44720
Formula: y = mx + b
m: 1.35341e-1
b: 4.54582e-1
x: Amount[ug/l]
y: Area



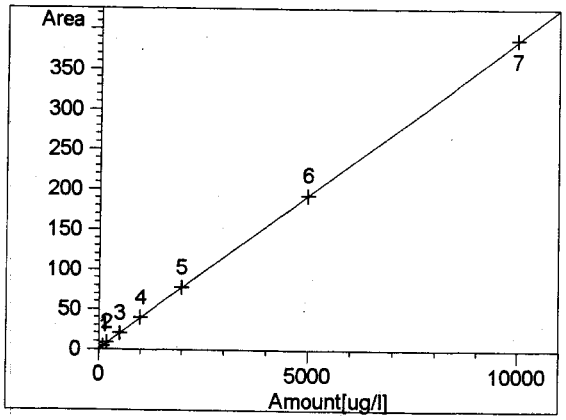
Anthracene at exp. RT: 10.285
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 2.50095
Formula: y = mx + b
m: 4.23168e-1
b: 1.94511
x: Amount[ug/l]
y: Area



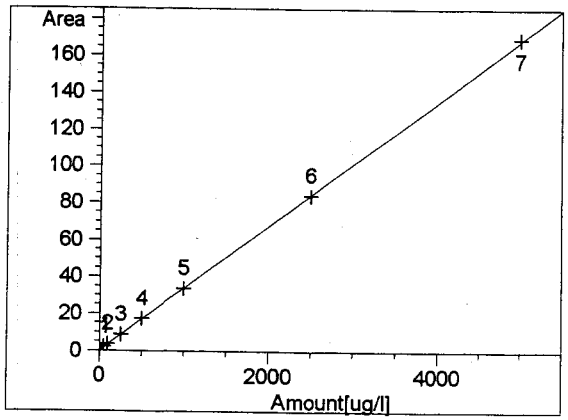
Anthracene at exp. RT: 10.323
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 1.38985
Formula: y = mx + b
m: 4.26697e-1
b: 7.39476e-1
x: Amount[ug/l]
y: Area



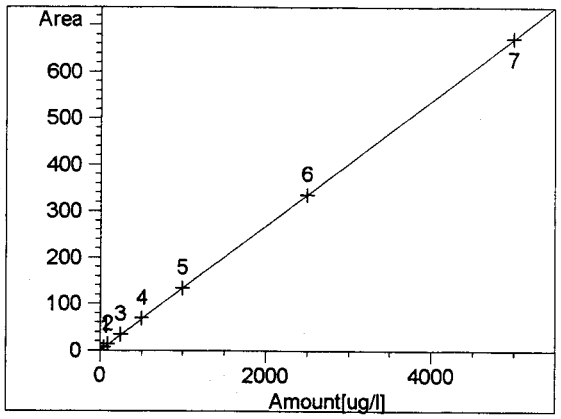
Fluoranthene at exp. RT: 11.435
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.26501
Formula: y = mx + b
m: 4.06313e-2
b: 1.40829e-1
x: Amount[ug/l]
y: Area



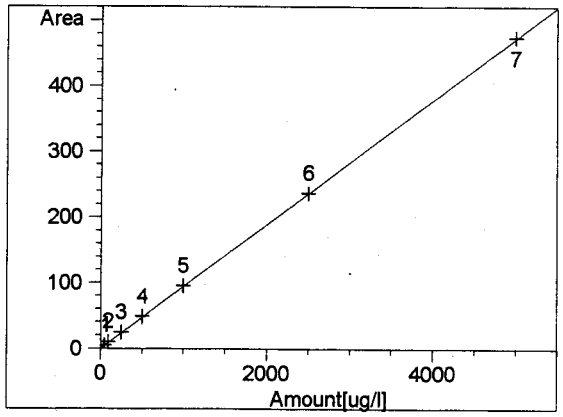
Fluoranthene at exp. RT: 11.472
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.29311
Formula: y = mx + b
m: 3.87172e-2
b: 5.88250e-2
x: Amount[ug/l]
y: Area



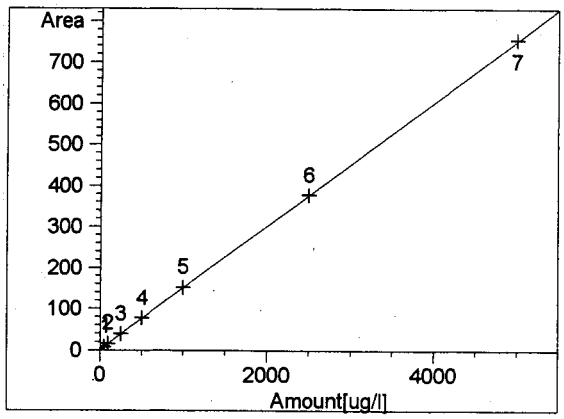
Pyrene at exp. RT: 12.208
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.27756
Formula: y = mx + b
m: 3.37388e-2
b: 1.22142e-3
x: Amount[ug/l]
y: Area



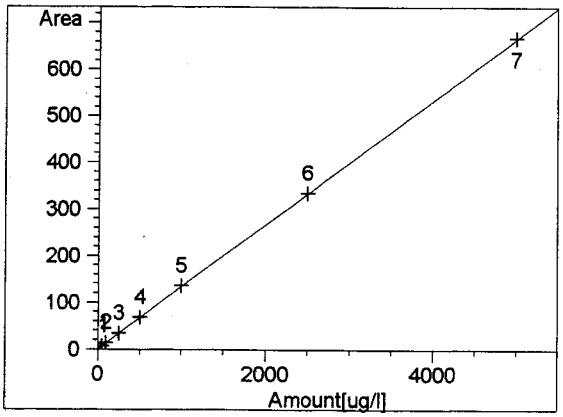
Pyrene at exp. RT: 12.245
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.55665
Formula: y = mx + b
m: 1.34246e-1
b: -2.46762e-1
x: Amount[ug/l]
y: Area



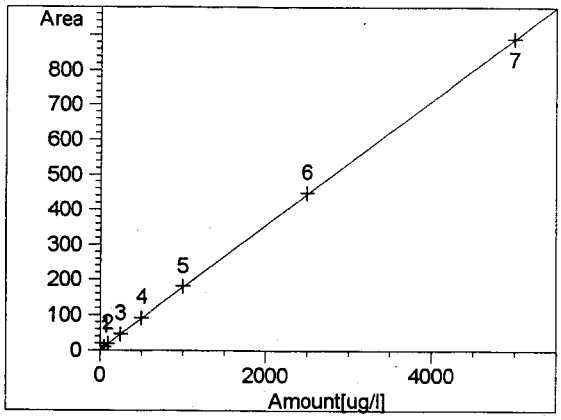
Benzo(a)anthracene at exp. RT: 15.039
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.43917
Formula: y = mx + b
m: 9.47891e-2
b: -5.46320e-2
x: Amount[ug/l]
y: Area



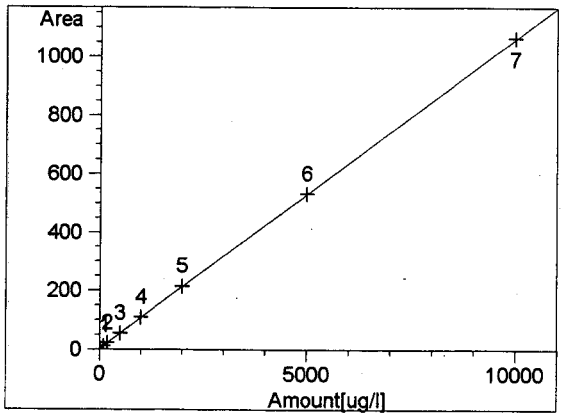
Benzo(a)anthracene at exp. RT: 15.077
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.63754
Formula: y = mx + b
m: 1.50795e-1
b: 5.90358e-1
x: Amount[ug/l]
y: Area



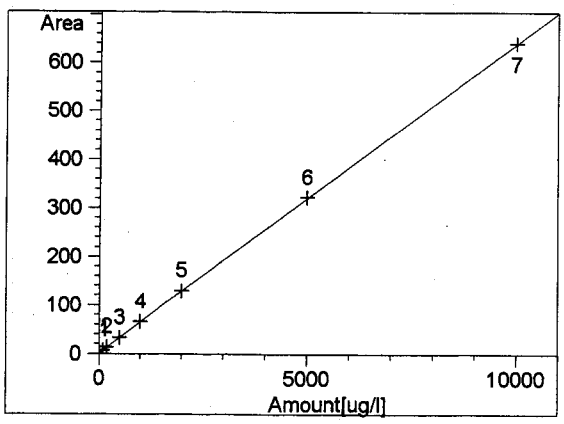
Chrysene at exp. RT: 15.539
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.57474
Formula: y = mx + b
m: 1.33415e-1
b: 4.59439e-1
x: Amount[ug/l]
y: Area



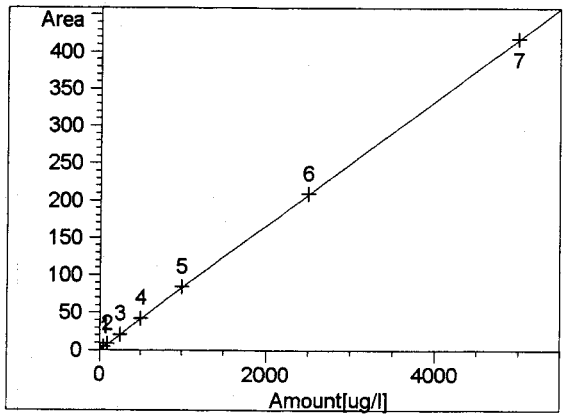
Chrysene at exp. RT: 15.577
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.48324
Formula: y = mx + b
m: 1.77933e-1
b: 1.39188
x: Amount[ug/l]
y: Area



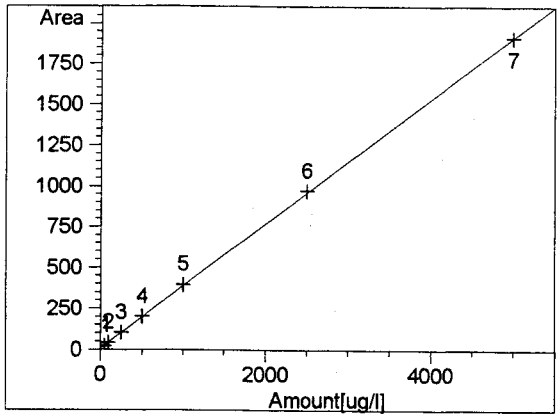
Benzo(b)fluoranthene at exp. RT: 17.772
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.71561
Formula: y = mx + b
m: 1.06301e-1
b: 3.09438e-1
x: Amount[ug/l]
y: Area



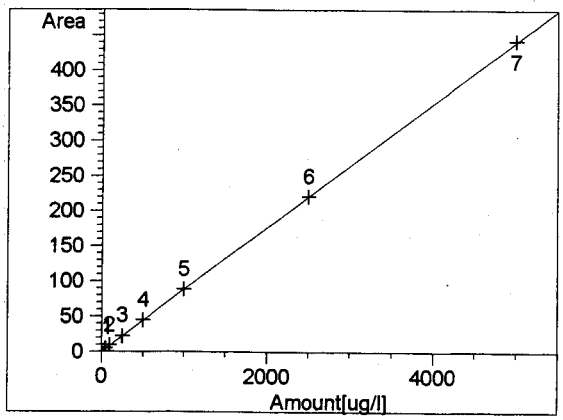
Benzo(b)fluoranthene at exp. RT: 17.810
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.79187
Formula: y = mx + b
m: 6.40783e-2
b: 5.89141e-1
x: Amount[ug/l]
y: Area



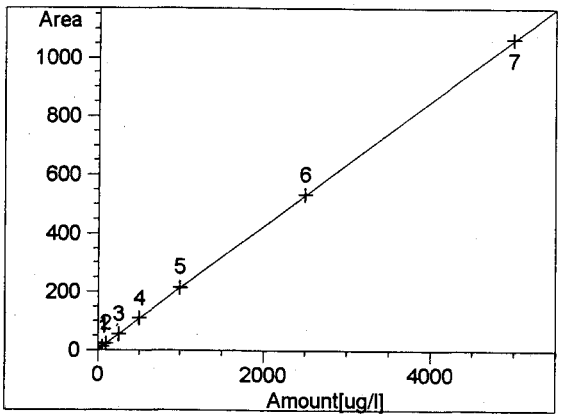
Benzo(k)fluoranthene at exp. RT: 18.726
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.26640
Formula: y = mx + b
m: 8.35344e-2
b: -1.45349e-1
x: Amount[ug/l]
y: Area



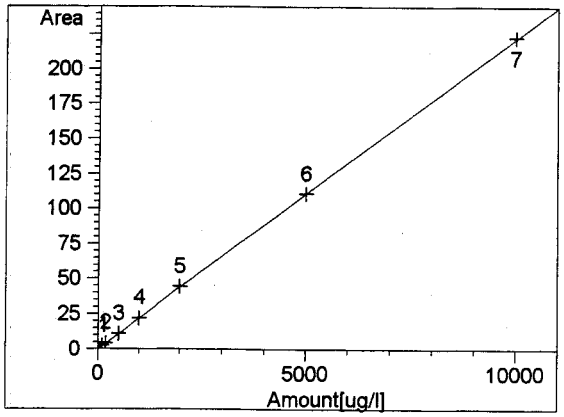
Benzo(k)fluoranthene at exp. RT: 18.764
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99997
Residual Std. Dev.: 6.35516
Formula: y = mx + b
m: 3.82102e-1
b: 5.25986
x: Amount[ug/l]
y: Area



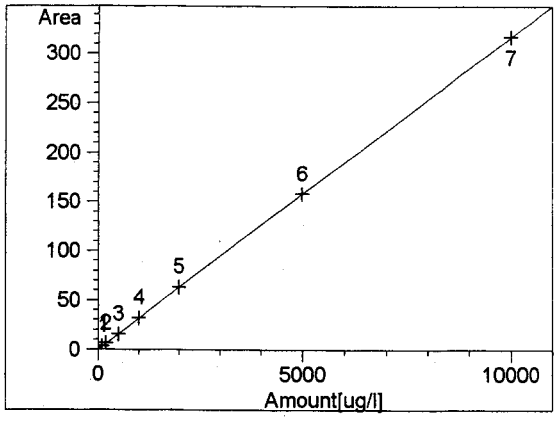
Benzo(a)pyrene at exp. RT: 19.676
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.53487
Formula: y = mx + b
m: 8.85779e-2
b: -5.40129e-1
x: Amount[ug/l]
y: Area



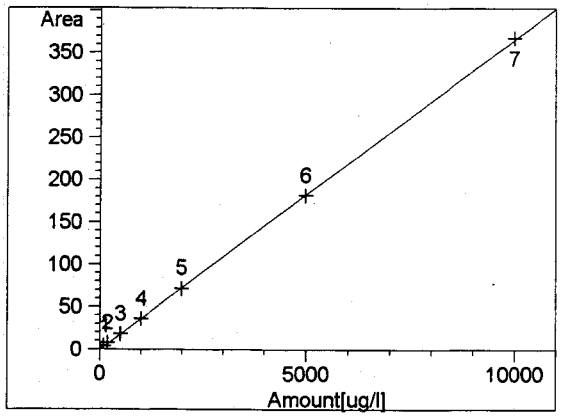
Benzo(a)pyrene at exp. RT: 19.714
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.85195
Formula: y = mx + b
m: 2.12753e-1
b: 6.41655e-1
x: Amount[ug/l]
y: Area



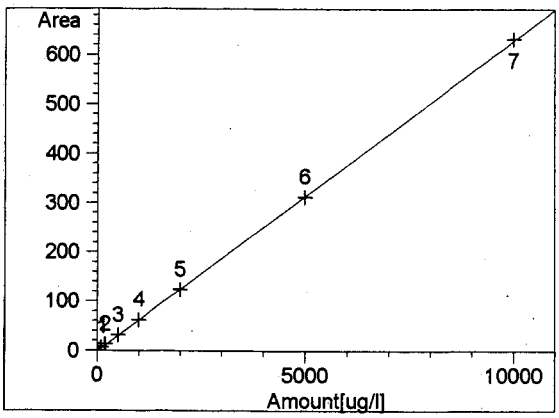
Dibenz(a,h)anthracene at exp. RT: 21.294
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.26499
Formula: y = mx + b
m: 2.23247e-2
b: -5.32610e-1
x: Amount[ug/l]
y: Area



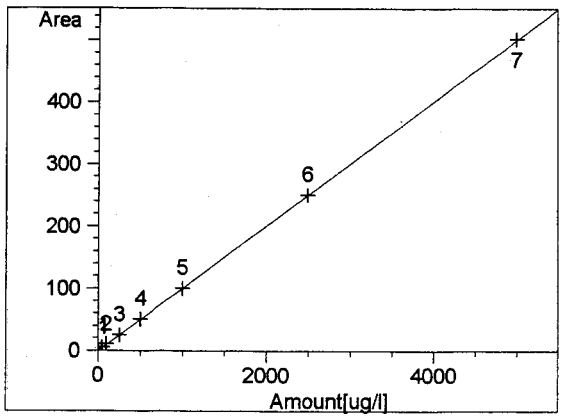
Dibenz(a,h)anthracene at exp. RT: 21.332
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.27198
Formula: y = mx + b
m: 3.17395e-2
b: -2.91544e-1
x: Amount[ug/l]
y: Area



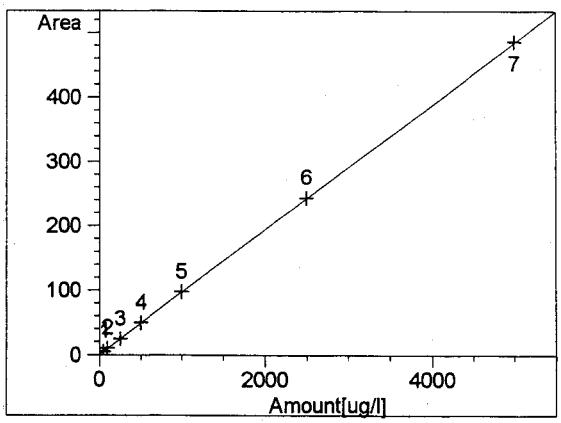
Benzo(g,h,i)perylene at exp. RT: 22.074
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.94681
Formula: y = mx + b
m: 3.67740e-2
b: -1.04727
x: Amount[ug/l]
y: Area



Benzo(g,h,i)perylene at exp. RT: 22.111
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99998
Residual Std. Dev.: 1.45280
Formula: y = mx + b
m: 6.31700e-2
b: -1.53644
x: Amount[ug/l]
y: Area



Indeno(1,2,3-cd)pyrene at exp. RT: 22.588
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.25692
Formula: y = mx + b
m: 1.00554e-1
b: -4.92879e-1
x: Amount[ug/l]
y: Area



Indeno(1,2,3-cd)pyrene at exp. RT: 22.626
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.41791
Formula: y = mx + b
m: 9.71800e-2
b: 1.79343e-1
x: Amount[ug/l]
y: Area

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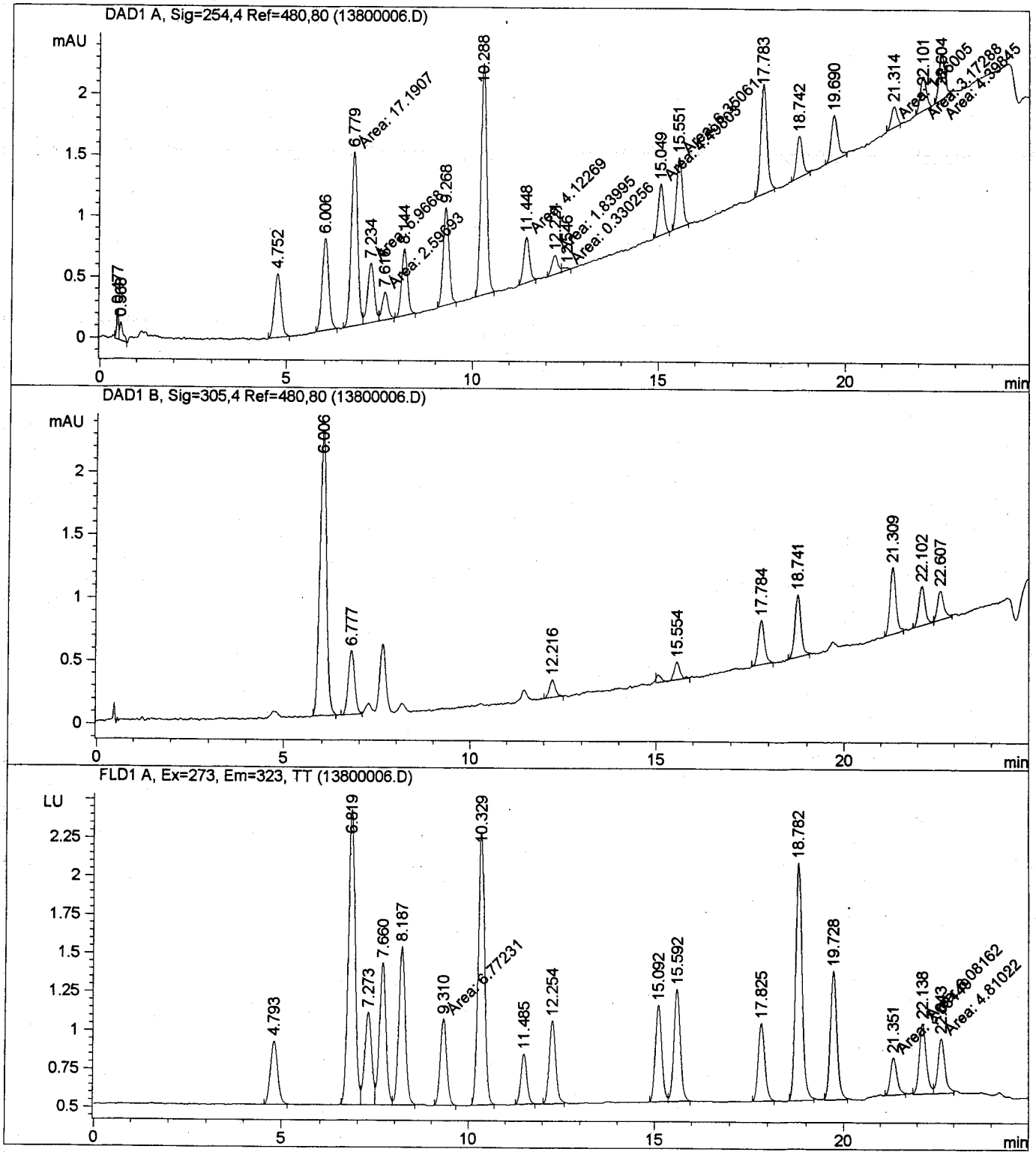
Injection Date	: 5/18/2006 7:52:48 PM	Seq. Line :	6
Sample Name	: ICAL,S3065	Location :	Vial 6
Acq. Operator	:	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		

HPLC04 METHOD 8310



Jm 22MAY2006

External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.752	BP	6.35383	73.22840	465.28047		Naphthalene
6.006	BB	9.18307	86.07316	790.41598		Acenaphthylene
6.779	MF	17.19066	103.84860	1785.22554		1-Methylnaphthalene (UV)
7.234	MF	5.96680	80.69614	481.49793		2-Methylnaphthalene
7.616	FM	2.59693	167.38480	434.68637		Acenaphthene
8.144	VP	6.27447	15.44981	96.93942		Fluorene
9.268	BP	8.85156	5.43133	48.07574		Phenanthrene
10.288	BB	20.75930	2.30524	47.85517		Anthracene
11.448	MM	4.12269	25.48087	105.04978		Fluoranthene
12.221	MF	1.83995	34.43634	63.36108		Pyrene
15.049	MM	4.49803	12.28219	55.24568		Benzo(a)anthracene
15.551	MM	6.35061	7.91518	50.26628		Chrysene
17.783	BB	10.36747	9.89141	102.54895		Benzo(b)fluoranthene
18.742	PB	3.94109	14.59363	57.51478		Benzo(k)fluoranthene
19.690	PB	4.38903	13.34166	58.55689		Benzo(a)pyrene
21.314	MM	1.86005	61.87980	115.09983		Dibenz(a,h)anthracene
22.101	MM	3.17288	33.45332	106.14337		Benzo(g,h,i)perylene
22.604	MM	4.39845	12.46554	54.82910		Indeno(1,2,3-cd)pyrene

Totals : 4918.59235

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.006	BB	27.65381	36.14769	999.62119		Acenaphthylene
6.777	PV	6.06443	308.61277	1871.56076		1-Methylnaphthalene (UV)

Totals : 2871.18195

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.793	BB	5.48376	68.97480	378.24111		Naphthalene
6.819	BV	24.40978	59.67094	1456.55443		1-Methylnaphthalene (F)
7.273	VV	7.74911	55.20738	427.80829		2-Methylnaphthalene
7.660	VV	11.70526	36.25836	424.41367		Acenaphthene
8.187	VB	12.79477	6.28187	80.37502		Fluorene
9.310	MM	6.77231	5.92673	40.13766		Phenanthrene
10.329	BB	20.99740	2.31053	48.51518		Anthracene
11.485	BB	3.82083	23.80183	90.94271		Fluoranthene
12.254	BB	6.53807	7.19858	47.06487		Pyrene
15.092	BV	7.44724	6.41390	47.76587		Benzo(a)anthracene
15.592	VB	8.93709	4.83163	43.18071		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.825	BB	6.27574	14.89507	93.47751		Benzo(b)fluoranthene
18.782	BB	19.28471	2.18916	42.21724		Benzo(k)fluoranthene
19.728	BB	10.44253	4.30052	44.90832		Benzo(a)pyrene
21.351	MF	3.03149	36.12993	109.52744		Dibenz(a,h)anthracene
22.138	FM	6.08162	17.06152	103.76167		Benzo(g,h,i)perylene
22.643	MF	4.81022	11.56582	55.63411		Indeno(1,2,3-cd)pyrene

Totals : 3534.52582

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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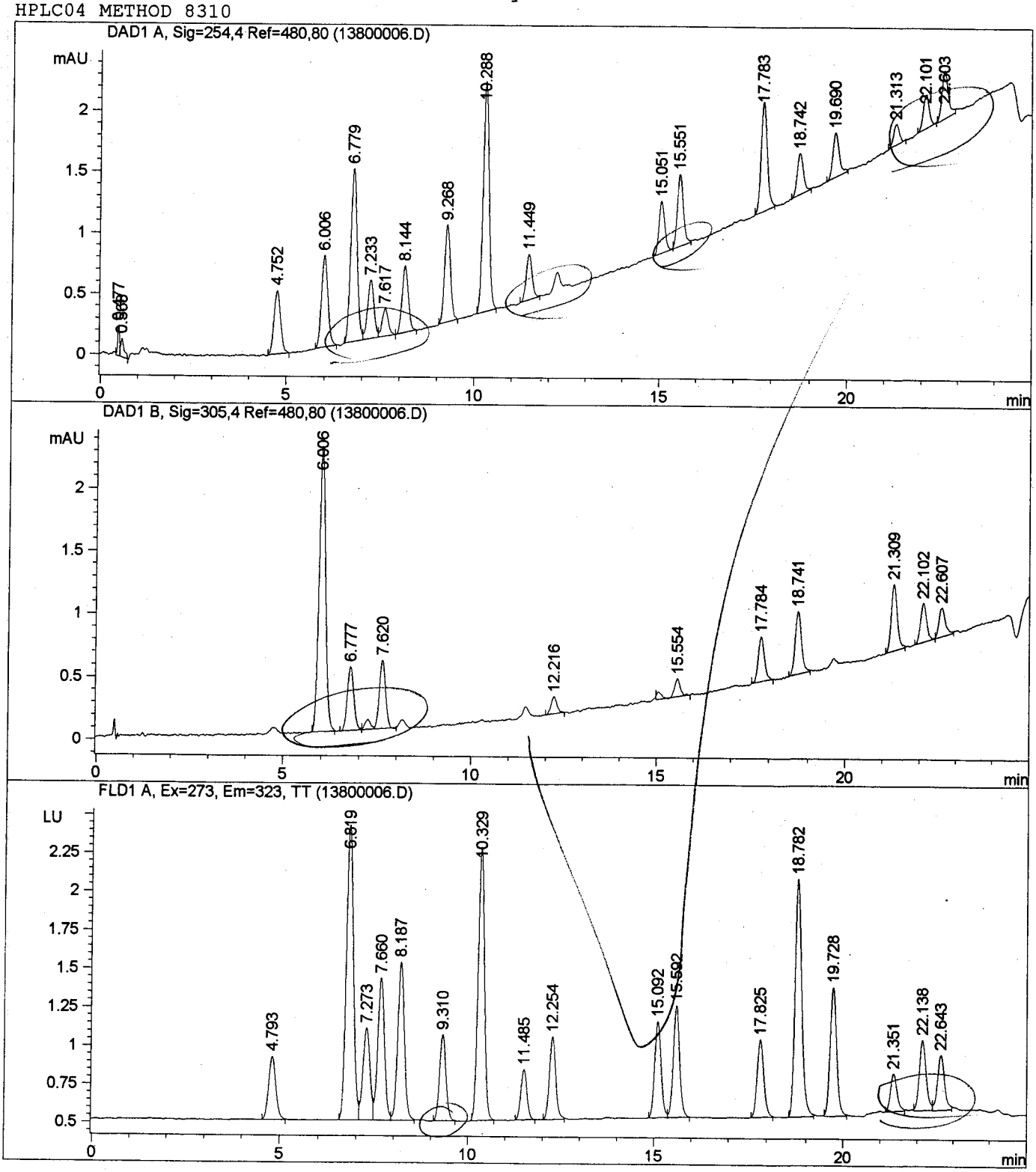
Injection Date : 5/18/2006 7:52:48 PM
Sample Name : ICAL,S3065
Acq. Operator :
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\051806.S
Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL
HPLC04 METHOD 8310

Seq. Line : 6
Location : Vial 6
Inj : 1
Inj Volume : 10 µl



External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.752	BP	6.35383	73.22840	465.28047		Naphthalene
6.006	BB	9.18307	86.07316	790.41598		Acenaphthylene
6.779	BV	16.96911	103.64911	1758.83363		1-Methylnaphthalene (UV)
7.233	VV	5.86789	80.58486	472.86303		2-Methylnaphthalene
7.617	VP	2.58632	167.24952	432.56006		Acenaphthene
8.144	VP	6.27447	15.44981	96.93942		Fluorene
9.268	BP	8.85156	5.43133	48.07574		Phenanthrene
10.288	BB	20.75930	2.30524	47.85517		Anthracene
11.449	BB	4.17647	25.46600	106.35808		Fluoranthene
12.274		-	-	-		Pyrene
15.051	PB	4.66044	12.23445	57.01786		Benzo(a)anthracene
15.551	BB	6.65766	7.89598	52.56868		Chrysene
17.783	BB	10.36747	9.89141	102.54895		Benzo(b)fluoranthene
18.742	PB	3.94109	14.59363	57.51478		Benzo(k)fluoranthene
19.690	PB	4.38903	13.34166	58.55689		Benzo(a)pyrene
21.313	BB	1.89148	61.62125	116.55565		Dibenz(a,h)anthracene
22.101	BB	3.27987	33.27520	109.13825		Benzo(g,h,i)perylene
22.603	BB	4.80412	12.29839	59.08288		Indeno(1,2,3-cd)pyrene

Totals : 4832.16552

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.006	BB	27.65381	36.14769	999.62119		Acenaphthylene
6.777	PV	6.06443	308.61277	1871.56076		1-Methylnaphthalene (UV)

Totals : 2871.18195

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.793	BB	5.48376	68.97480	378.24111		Naphthalene
6.819	BV	24.40978	59.67094	1456.55443		1-Methylnaphthalene (F)
7.273	VV	7.74911	55.20738	427.80829		2-Methylnaphthalene
7.660	VV	11.70526	36.25836	424.41367		Acenaphthene
8.187	VB	12.79477	6.28187	80.37502		Fluorene
9.310	BB	6.73184	5.91894	39.84533		Phenanthrene
10.329	BB	20.99740	2.31053	48.51518		Anthracene
11.485	BB	3.82083	23.80183	90.94271		Fluoranthene
12.254	BB	6.53807	7.19858	47.06487		Pyrene
15.092	BV	7.44724	6.41390	47.76587		Benzo(a)anthracene
15.592	VB	8.93709	4.83163	43.18071		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.825	BB	6.27574	14.89507	93.47751		Benzo(b)fluoranthene
18.782	BB	19.28471	2.18916	42.21724		Benzo(k)fluoranthene
19.728	BB	10.44253	4.30052	44.90832		Benzo(a)pyrene
21.351	BB	3.01997	36.14844	109.16736		Dibenz(a,h)anthracene
22.138	BV	6.04372	17.07027	103.16802		Benzo(g,h,i)perylene
22.643	VB	4.78746	11.57190	55.40001		Indeno(1,2,3-cd)pyrene

Totals : 3533.04566

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

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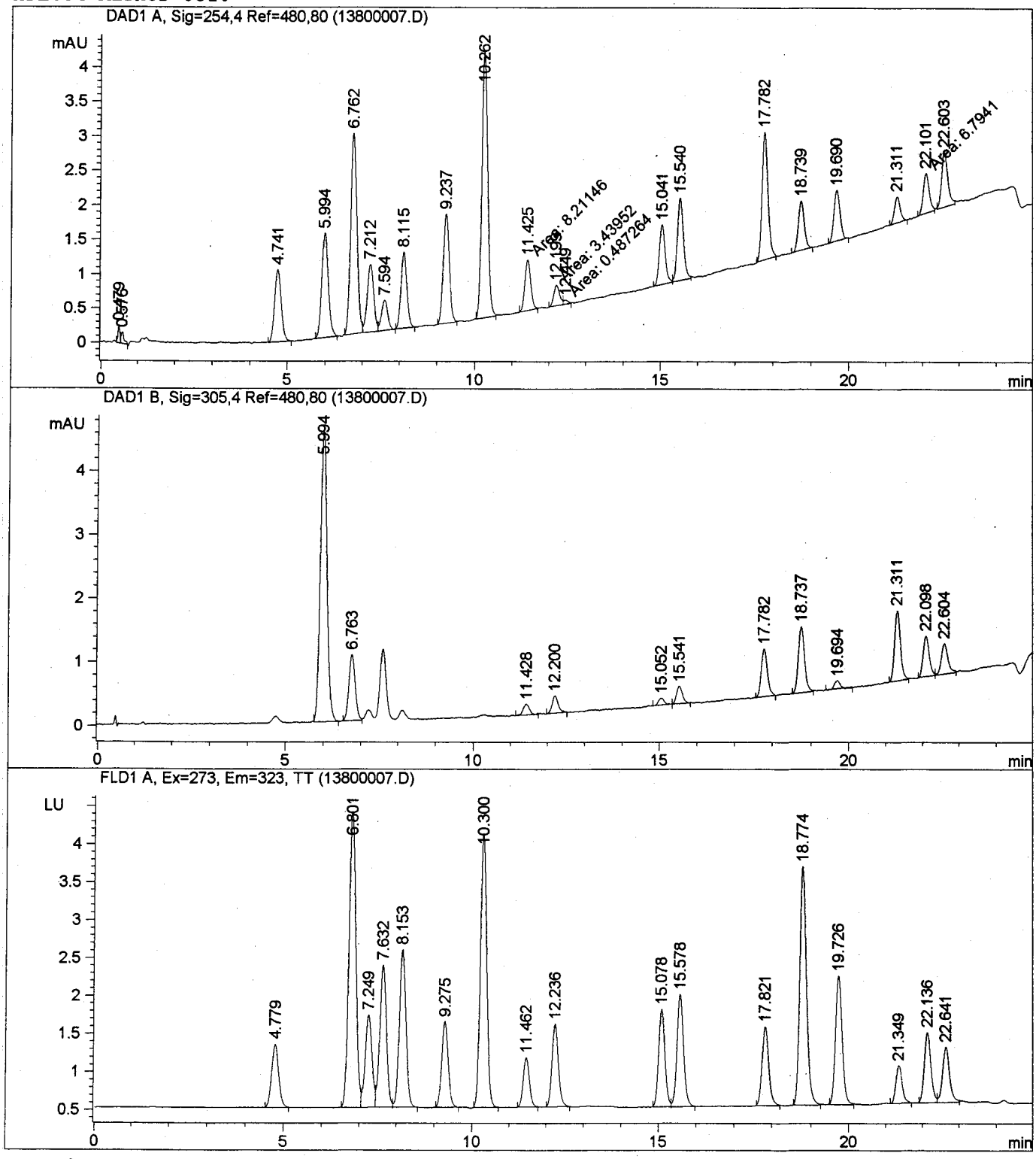
*** End of Report ***

Injection Date	: 5/18/2006 8:24:25 PM	Seq. Line :	7
Sample Name	: ICAL,S3064	Location :	Vial 7
Acq. Operator	:	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 5/22/2006 3:04:09 PM (modified after loading)		

HPLC04 METHOD 8310



22MAY2006

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, May 22, 2006 3:04:08 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.741	PP	13.15704	75.44715	992.66081		Naphthalene
5.994	BB	18.68859	97.96462	1830.82099		Acenaphthylene
6.762	BV	34.41462	111.26010	3828.97360		1-Methylnaphthalene (UV)
7.212	VV	11.99022	83.23805	998.04267		2-Methylnaphthalene
7.594	VB	5.17957	182.34076	944.44598		Acenaphthene
8.115	BP	12.48572	15.66499	195.58864		Fluorene
9.237	BB	17.94612	5.51656	99.00091		Phenanthrene
10.262	BB	42.52945	2.38255	101.32866		Anthracene
11.425	MM	8.21146	24.85880	204.12706		Fluoranthene
12.199	MF	3.43952	31.84936	109.54636		Pyrene
15.041	BB	9.67921	11.48192	111.13591		Benzo(a)anthracene
15.540	BB	13.59609	7.71104	104.83992		Chrysene
17.782	BB	20.85804	9.58304	199.88339		Benzo(b)fluoranthene
18.739	PB	7.89588	13.47462	106.39401		Benzo(k)fluoranthene
19.690	BP	8.22974	12.32704	101.44830		Benzo(a)pyrene
21.311	PP	4.03761	53.19287	214.77209		Dibenz(a,h)anthracene
22.101	MF	6.79410	30.67938	208.43875		Benzo(g,h,i)perylene
22.603	BB	9.64680	11.34406	109.43393		Indeno(1,2,3-cd)pyrene

Totals : 1.04609e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
5.994	BP	56.04304	35.96343	2015.49979		Acenaphthylene
6.763	BV	12.31411	319.16952	3930.28943		1-Methylnaphthalene (UV)

Totals : 5945.78921

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.779	BB	11.08296	78.41449	869.06430		Naphthalene
6.801	BV	49.21495	69.93486	3441.84074		1-Methylnaphthalene (F)
7.249	VV	15.52372	59.51698	923.92465		2-Methylnaphthalene
7.632	VV	23.56936	39.24141	924.89482		Acenaphthene
8.153	VB	25.46982	7.01892	178.77070		Fluorene
9.275	BB	13.66179	6.60992	90.30337		Phenanthrene
10.300	BB	42.23863	2.36471	99.88196		Anthracene
11.462	BB	7.68846	24.34096	187.14448		Fluoranthene
12.236	BB	13.11404	7.39696	97.00398		Pyrene
15.078	BV	15.15430	6.51482	98.72748		Benzo(a)anthracene
15.578	VB	18.11283	5.14692	93.22533		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.821	BB	12.83850	15.01359	192.75198		Benzo(b)fluoranthene
18.774	BB	39.20409	2.38224	93.39338		Benzo(k)fluoranthene
19.726	BB	21.26584	4.49830	95.66009		Benzo(a)pyrene
21.349	BB	6.02086	33.66053	202.66539		Dibenz(a,h)anthracene
22.136	BV	11.79889	16.41176	193.64051		Benzo(g,h,i)perylene
22.641	VB	9.68046	10.88148	105.33775		Indeno(1,2,3-cd)pyrene
Totals :				7888.23092		

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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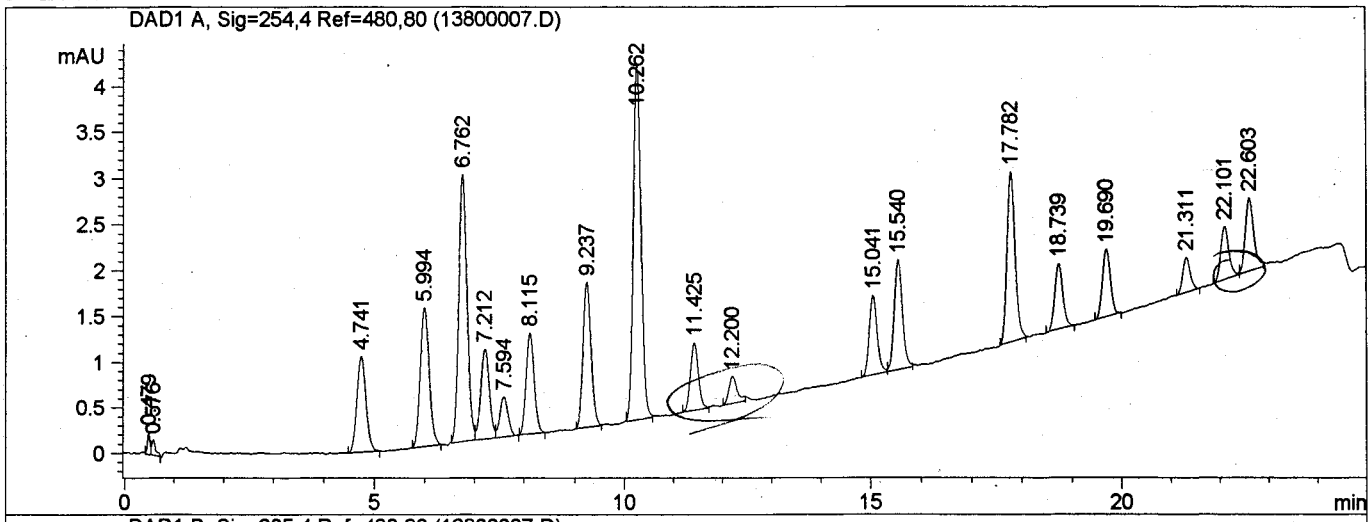
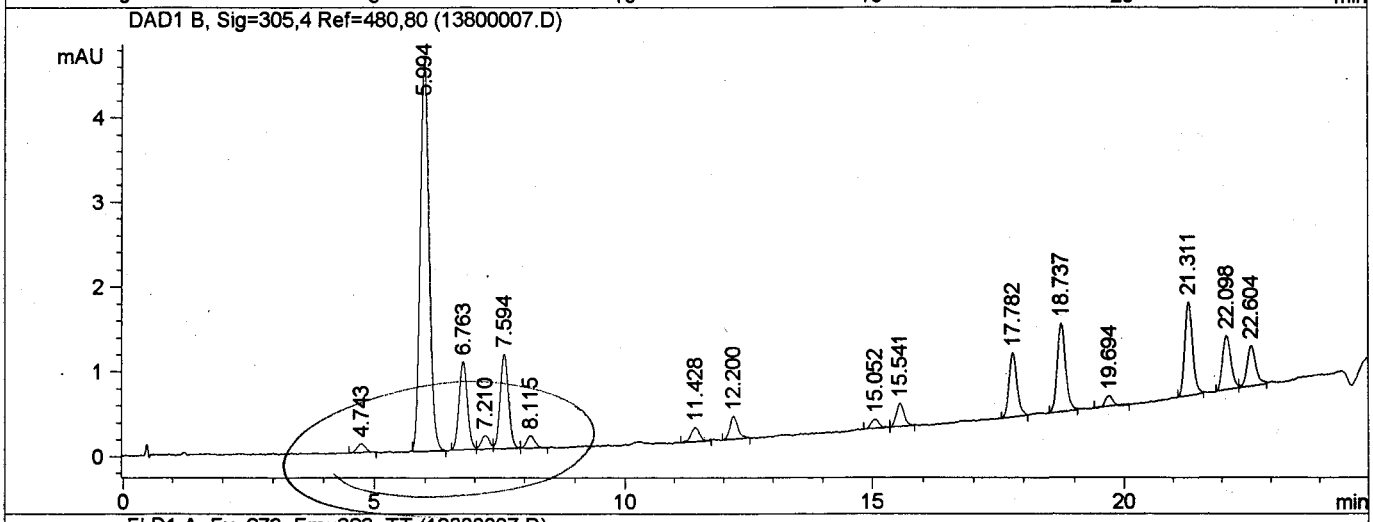
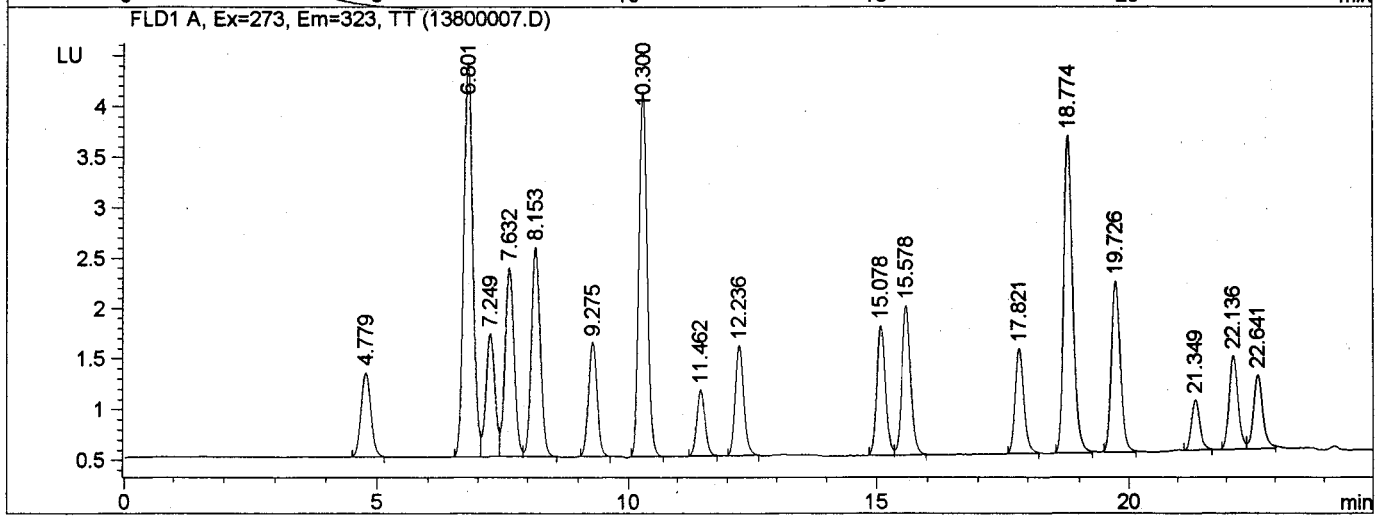
Injection Date	: 5/18/2006 8:24:25 PM	Seq. Line :	7
Sample Name	: ICAL,S3064	Location :	Vial 7
Acq. Operator	:	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Sequence File	: G:\HPLC4\SEQUENCE\051806.S		
Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		

HPLC04 METHOD 8310







External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.741	PP	13.15704	75.23966	989.93094		Naphthalene
5.994	BB	18.68859	97.95052	1830.55734		Acenaphthylene
6.762	BV	34.41462	111.49571	3837.08215		1-Methylnaphthalene (UV)
7.212	VV	11.99022	84.01255	1007.32908		2-Methylnaphthalene
7.594	VB	5.17957	183.82214	952.11889		Acenaphthene
8.115	BP	12.48572	15.67684	195.73657		Fluorene
9.237	BB	17.94612	5.50602	98.81159		Phenanthrene
10.262	BB	42.52945	2.39039	101.66206		Anthracene
11.425	BB	8.33177	24.89745	207.43969		Fluoranthene
12.200	BB	3.63215	32.14049	116.73924		Pyrene
15.041	BB	9.67921	11.54875	111.78279		Benzo(a)anthracene
15.540	BB	13.59609	7.69321	104.59755		Chrysene
17.782	BB	20.85804	9.63082	200.87998		Benzo(b)fluoranthene
18.739	PB	7.89588	13.44291	106.14363		Benzo(k)fluoranthene
19.690	BP	8.22974	12.47815	102.69193		Benzo(a)pyrene
21.311	PP	4.03761	53.48821	215.96454		Dibenz(a,h)anthracene
22.101	PB	6.88324	30.50981	210.00617		Benzo(g,h,i)perylene
22.603	BB	9.64680	11.38859	109.86342		Indeno(1,2,3-cd)pyrene

Totals : 1.04993e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
5.994	BP	56.04304	36.00954	2018.08416		Acenaphthylene
6.763	BV	12.31411	319.09832	3929.41268		1-Methylnaphthalene (UV)

Totals : 5947.49684

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.779	BB	11.08296	77.69214	861.05854		Naphthalene
6.801	BV	49.21495	69.11596	3401.53860		1-Methylnaphthalene (F)
7.249	VV	15.52372	59.25143	919.80224		2-Methylnaphthalene
7.632	VV	23.56936	39.05561	920.51559		Acenaphthene
8.153	VB	25.46982	6.97885	177.75006		Fluorene
9.275	BB	13.66179	6.58089	89.90669		Phenanthrene
10.300	BB	42.23863	2.37078	100.13855		Anthracene
11.462	BB	7.68846	24.15496	185.71436		Fluoranthene
12.236	BB	13.11404	7.36549	96.59133		Pyrene
15.078	BV	15.15430	6.50643	98.60035		Benzo(a)anthracene
15.578	VB	18.11283	5.13250	92.96409		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.821	BB	12.83850	14.92551	191.62111		Benzo(b)fluoranthene
18.774	BB	39.20409	2.37879	93.25822		Benzo(k)fluoranthene
19.726	BB	21.26584	4.48946	95.47213		Benzo(a)pyrene
21.349	BB	6.02086	33.71974	203.02184		Dibenz(a,h)anthracene
22.136	BV	11.79889	16.38463	193.32039		Benzo(g,h,i)perylene
22.641	VB	9.68046	10.92153	105.72548		Indeno(1,2,3-cd)pyrene

Totals : 7826.99958

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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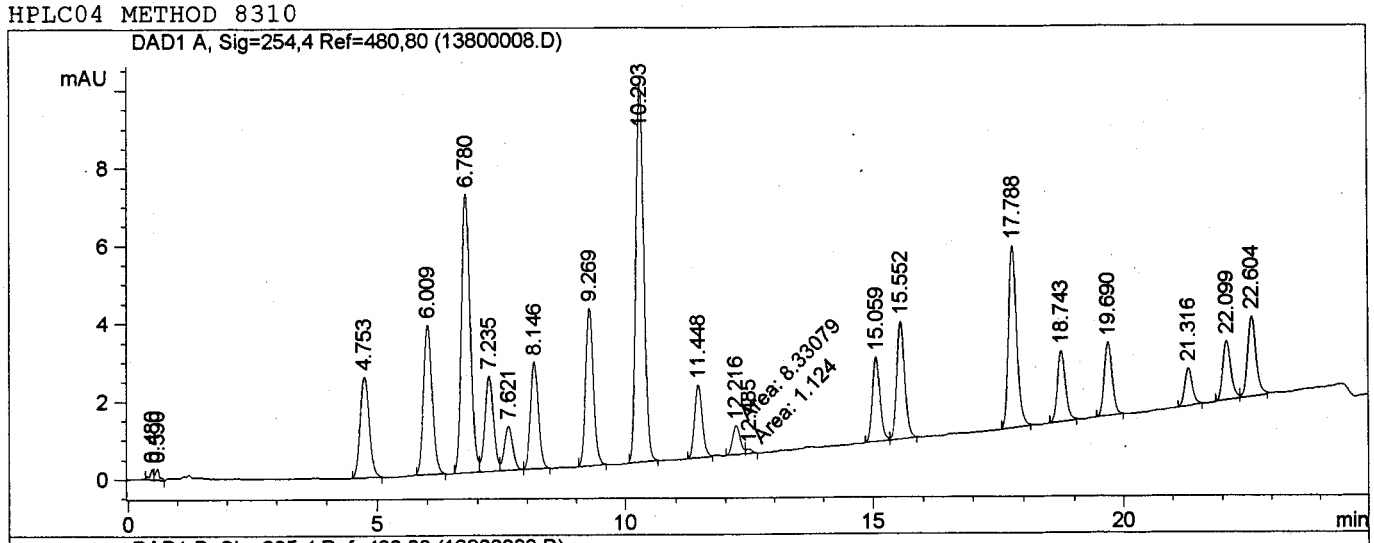
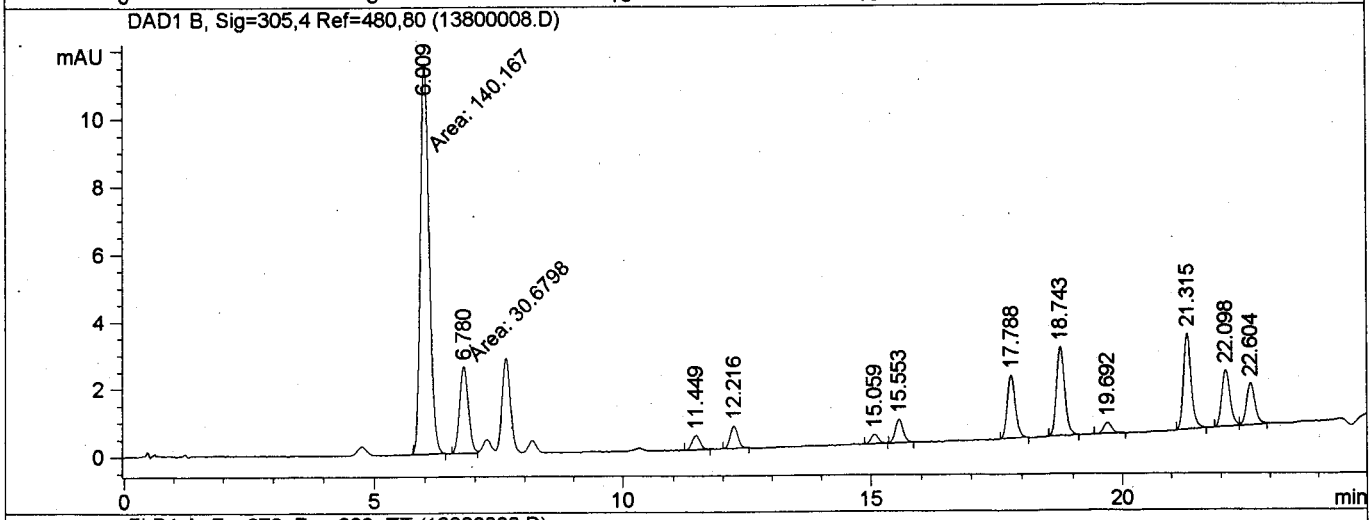
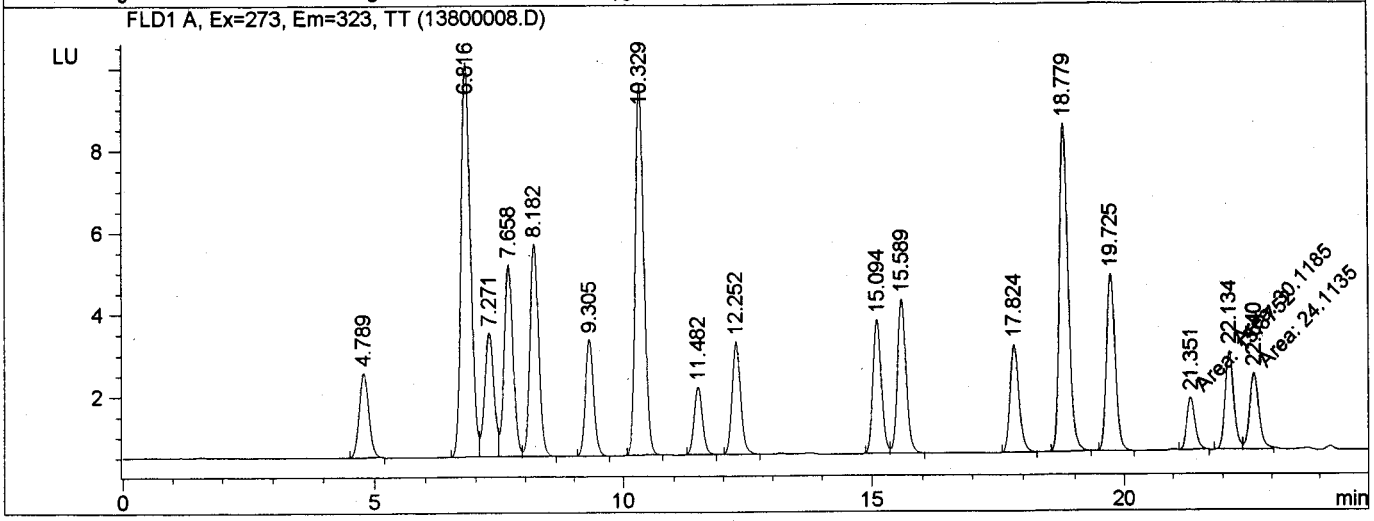
Injection Date	: 5/18/2006 8:56:04 PM	Seq. Line :	8
Sample Name	: ICAL,S3063	Location :	Vial 8
Acq. Operator	:	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 5/22/2006 3:08:40 PM (modified after loading)		

HPLC04 METHOD 8310







JM 22MAY2006

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, May 22, 2006 3:08:39 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.753	BB	32.77972	76.37793	2503.64698		Naphthalene
6.009	BP	46.93712	104.60774	4909.98650		Acenaphthylene
6.780	BV	85.94093	115.82409	9954.03067		1-Methylnaphthalene (UV)
7.235	VV	29.85911	85.16072	2542.82320		2-Methylnaphthalene
7.621	VB	13.08239	192.22136	2514.71478		Acenaphthene
8.146	BP	31.10701	15.79700	491.39753		Fluorene
9.269	BB	45.25932	5.54654	251.03249		Phenanthrene
10.293	BB	106.41690	2.42535	258.09860		Anthracene
11.448	BB	20.48045	24.49211	501.60948		Fluoranthene
12.216	MF	8.33079	30.45653	253.72692		Pyrene
15.059	BV	23.48936	11.08579	260.39827		Benzo(a)anthracene
15.552	VB	33.59677	7.55520	253.83040		Chrysene
17.788	BB	53.17228	9.44279	502.09453		Benzo(b)fluoranthene
18.743	BB	20.57043	12.70764	261.40174		Benzo(k)fluoranthene
19.690	BB	21.51167	11.80156	253.87126		Benzo(a)pyrene
21.316	PB	10.67297	49.06117	523.62828		Dibenz(a,h)anthracene
22.099	BV	17.66954	29.06294	513.52874		Benzo(g,h,i)perylene
22.604	VB	24.43922	10.71133	261.77653		Indeno(1,2,3-cd)pyrene

Totals : 2.70116e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.009	MM	140.16672	35.82836	5021.94384		Acenaphthylene
6.780	MF	30.67977	324.56337	9957.52924		1-Methylnaphthalene (UV)

Totals : 1.49795e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.789	BB	27.68407	83.52975	2312.44313		Naphthalene
6.816	BV	122.94567	75.46335	9277.89216		1-Methylnaphthalene (F)
7.271	VV	38.81281	61.91813	2403.21689		2-Methylnaphthalene
7.658	VV	58.84945	40.87067	2405.21631		Acenaphthene
8.182	VP	63.67719	7.44721	474.21718		Fluorene
9.305	BP	34.08815	6.99887	238.57836		Phenanthrene
10.329	BB	106.64105	2.39799	255.72394		Anthracene
11.482	BB	19.30645	24.53096	473.60574		Fluoranthene
12.252	BP	33.29245	7.48167	249.08298		Pyrene
15.094	BV	38.07673	6.55493	249.59029		Benzo(a)anthracene
15.589	VB	45.37164	5.31771	241.27313		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.824	BB	32.34958	15.00282	485.33482		Benzo(b)fluoranthene
18.779	BB	98.73430	2.48862	245.71240		Benzo(k)fluoranthene
19.725	BB	53.53555	4.60008	246.26762		Benzo(a)pyrene
21.351	FM	15.37518	32.19158	494.95134		Dibenz(a,h)anthracene
22.134	MF	30.11854	16.00712	482.11107		Benzo(g,h,i)perylene
22.640	FM	24.11350	10.49065	252.96625		Indeno(1,2,3-cd)pyrene

Totals : 2.07882e4

Results obtained with enhanced integrator!

*** End of Report ***

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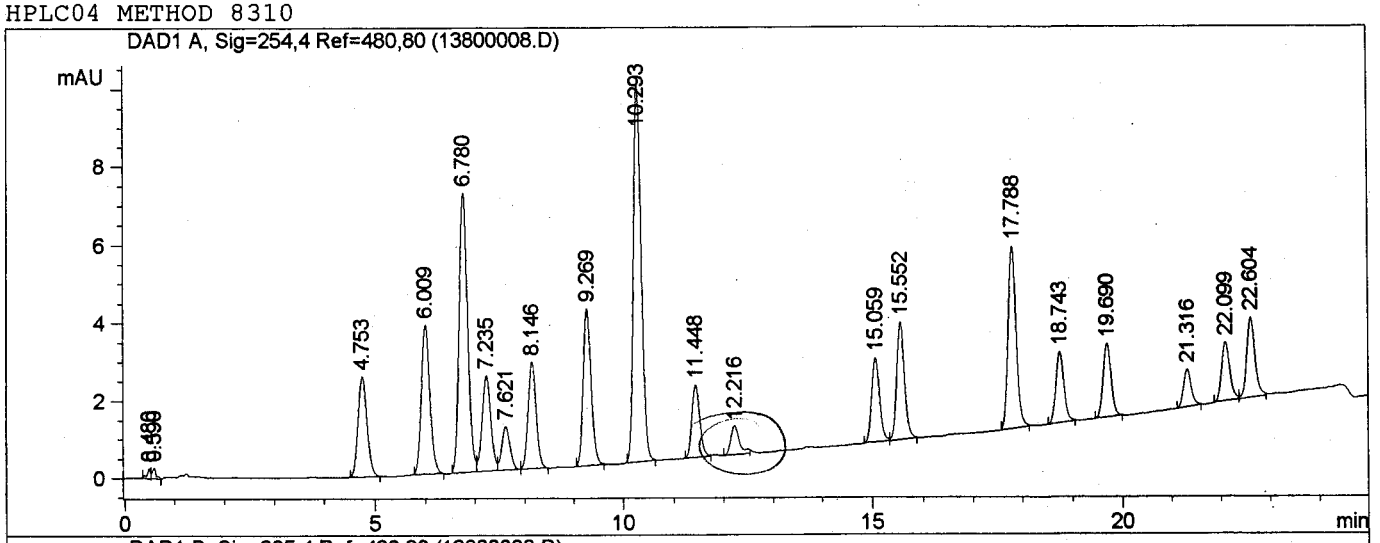
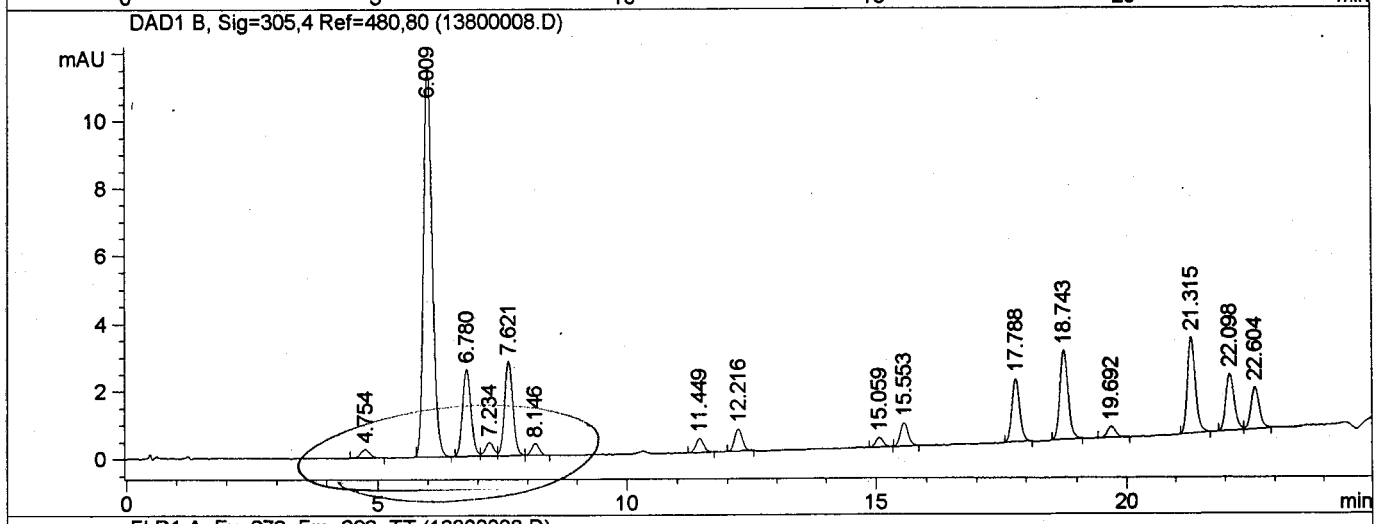
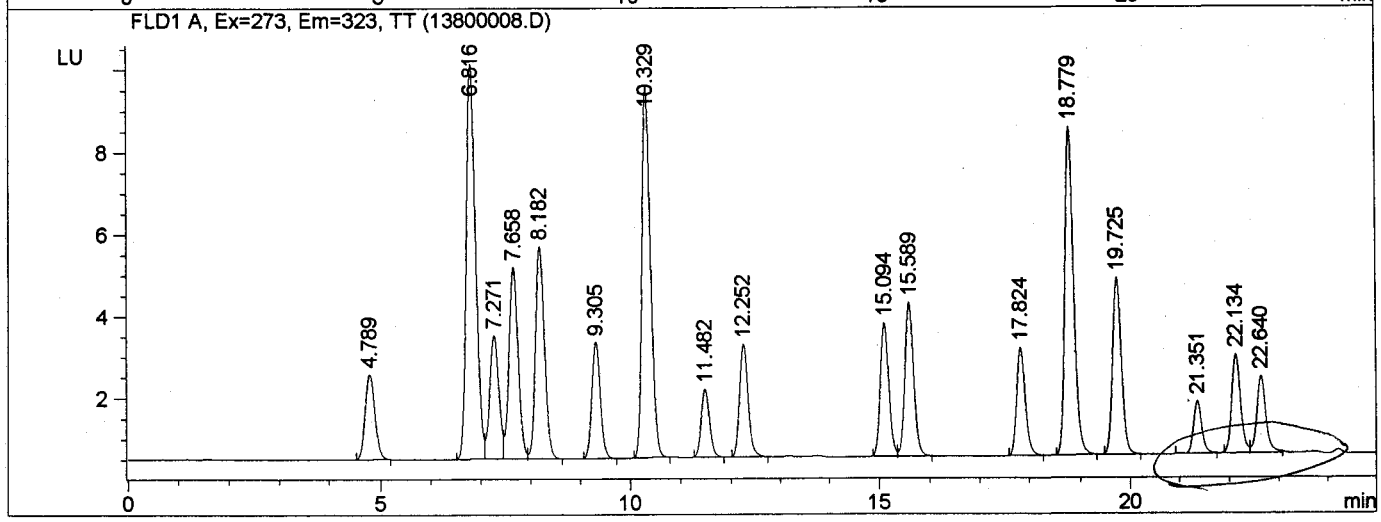
Injection Date	: 5/18/2006 8:56:04 PM	Seq. Line :	8
Sample Name	: ICAL,S3063	Location :	Vial 8
Acq. Operator	:	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Sequence File	: G:\HPLC4\SEQUENCE\051806.S		
Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		

HPLC04 METHOD 8310







External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.753	BB	32.77972	76.36412	2503.19429		Naphthalene
6.009	BP	46.93712	104.85627	4921.65160		Acenaphthylene
6.780	BV	85.94093	116.07172	9975.31178		1-Methylnaphthalene (UV)
7.235	VV	29.85911	85.97857	2567.24355		2-Methylnaphthalene
7.621	VB	13.08239	193.80657	2535.45315		Acenaphthene
8.146	BP	31.10701	15.81412	491.93013		Fluorene
9.269	BB	45.25932	5.54988	251.18387		Phenanthrene
10.293	BB	106.41690	2.43914	259.56562		Anthracene
11.448	BB	20.48045	24.55847	502.96849		Fluoranthene
12.216	BB	9.07741	30.72660	278.91797		Pyrene
15.059	BV	23.48936	11.17440	262.47948		Benzo(a)anthracene
15.552	VB	33.59677	7.57739	254.57574		Chrysene
17.788	BB	53.17228	9.47431	503.77063		Benzo(b)fluoranthene
18.743	BB	20.57043	12.73634	261.99202		Benzo(k)fluoranthene
19.690	BB	21.51167	11.86888	255.31947		Benzo(a)pyrene
21.316	PB	10.67297	49.03186	523.31537		Dibenz(a,h)anthracene
22.099	BV	17.66954	28.97324	511.94371		Benzo(g,h,i)perylene
22.604	VB	24.43922	10.84229	264.97718		Indeno(1,2,3-cd)pyrene

Totals : 2.71258e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.009	BB	140.42299	35.92868	5045.21256		Acenaphthylene
6.780	BV	30.85767	325.21271	1.00353e4		1-Methylnaphthalene (UV)

Totals : 1.50805e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.789	BB	27.68407	82.81183	2292.56834		Naphthalene
6.816	BV	122.94567	74.68987	9182.79644		1-Methylnaphthalene (F)
7.271	VV	38.81281	61.67004	2393.58779		2-Methylnaphthalene
7.658	VV	58.84945	40.71010	2395.76673		Acenaphthene
8.182	VP	63.67719	7.40100	471.27502		Fluorene
9.305	BP	34.08815	6.96620	237.46500		Phenanthrene
10.329	BB	106.64105	2.40675	256.65820		Anthracene
11.482	BB	19.30645	24.36488	470.39931		Fluoranthene
12.252	BP	33.29245	7.46607	248.56366		Pyrene
15.094	BV	38.07673	6.56025	249.79276		Benzo(a)anthracene
15.589	VB	45.37164	5.30856	240.85792		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.824	BB	32.34958	14.94306	483.40187		Benzo(b)fluoranthene
18.779	BB	98.73430	2.48948	245.79718		Benzo(k)fluoranthene
19.725	BB	53.53555	4.59934	246.22808		Benzo(a)pyrene
21.351	BB	15.91616	32.20018	512.50327		Dibenz(a,h)anthracene
22.134	BV	30.24633	15.94548	482.29231		Benzo(g,h,i)perylene
22.640	VB	24.45337	10.53710	257.66761		Indeno(1,2,3-cd)pyrene

Totals : 2.06676e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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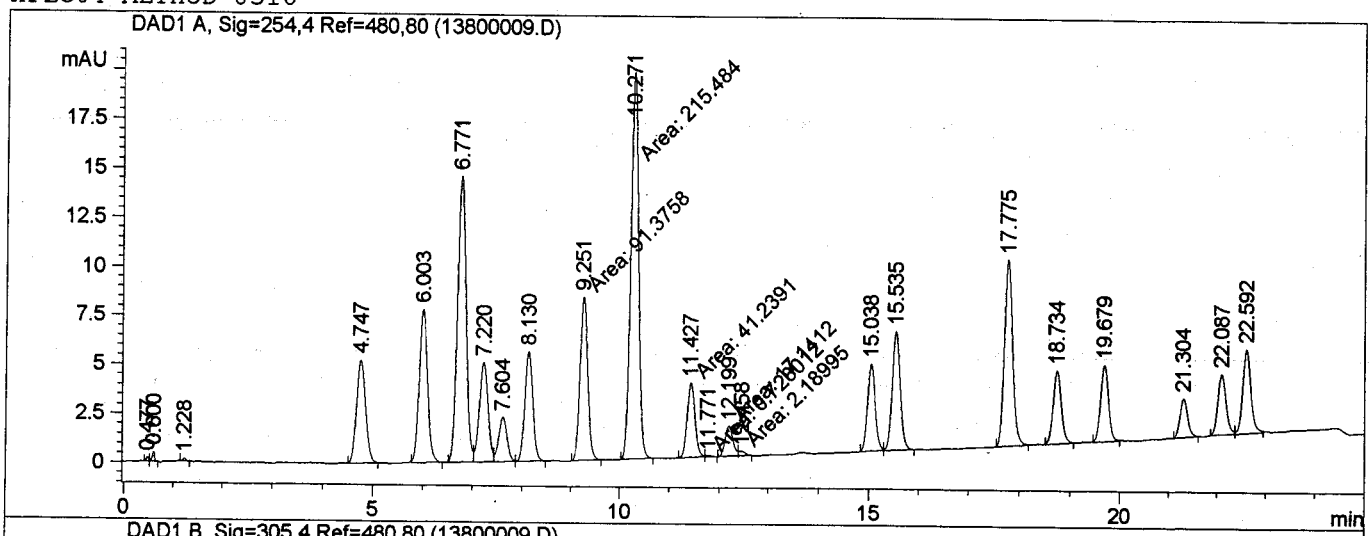
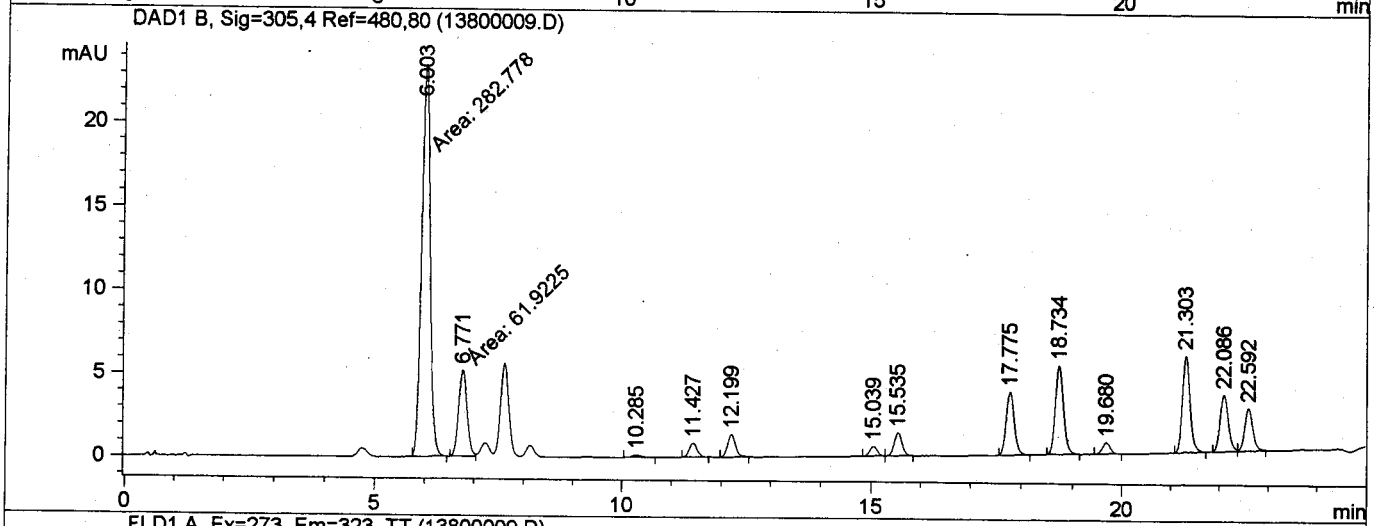
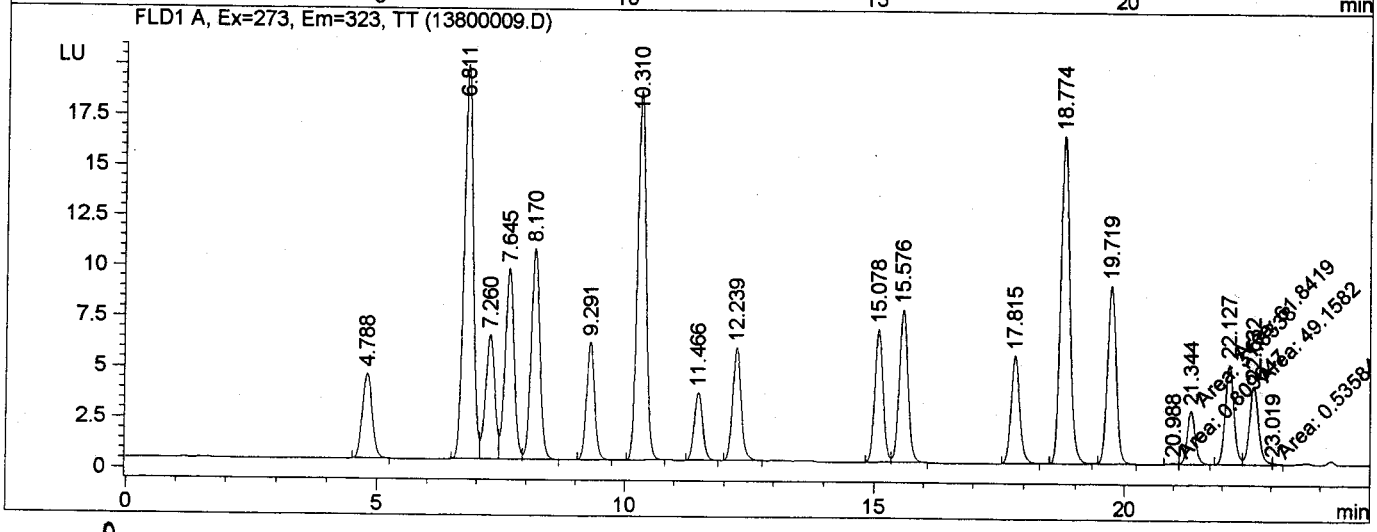
*** End of Report ***

Injection Date	: 5/18/2006 9:27:42 PM	Seq. Line	: 9
Sample Name	: ICAL,S3062	Location	: Vial 9
Acq. Operator	:	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 5/22/2006 3:12:31 PM (modified after loading)		

HPLC04 METHOD 8310







Jm 22MAY2006

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, May 22, 2006 3:12:30 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.747	BB	66.00784	76.67739	5061.30895		Naphthalene
6.003	BP	94.78723	106.93527	1.01361e4		Acenaphthylene
6.771	BV	173.09207	117.45247	2.03301e4		1-Methylnaphthalene (UV)
7.220	VV	60.88431	86.05257	5239.25141		2-Methylnaphthalene
7.604	VV	26.89059	195.94097	5268.96792		Acenaphthene
8.130	VP	63.54686	15.87401	1008.74328		Fluorene
9.251	MM	91.37579	5.56085	508.12697		Phenanthrene
10.271	MM	215.48436	2.43979	525.73592		Anthracene
11.427	MF	41.23911	24.39645	1006.08770		Fluoranthene
12.199	MF	17.14116	30.11218	516.15780		Pyrene
15.038	BV	47.78680	10.96489	523.97718		Benzo(a)anthracene
15.535	VB	67.79062	7.51456	509.41699		Chrysene
17.775	BB	107.52938	9.40124	1010.90932		Benzo(b)fluoranthene
18.734	BB	41.83699	12.44716	520.75155		Benzo(k)fluoranthene
19.679	BB	44.20454	11.62273	513.77751		Benzo(a)pyrene
21.304	BB	21.81421	47.45179	1035.12328		Dibenz(a,h)anthracene
22.087	BV	35.90152	28.47010	1022.11981		Benzo(g,h,i)perylene
22.592	VB	50.25140	10.54000	529.64997		Indeno(1,2,3-cd)pyrene

Totals : 5.52663e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.003	MM	282.77841	35.83417	1.01331e4		Acenaphthylene
6.771	MF	61.92251	327.20946	2.02616e4		1-Methylnaphthalene (UV)

Totals : 3.03948e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.788	BB	55.85367	85.40601	4770.23924		Naphthalene
6.811	BV	247.30377	77.41538	1.91451e4		1-Methylnaphthalene (F)
7.260	VV	78.28068	62.77767	4914.27847		2-Methylnaphthalene
7.645	VV	119.32713	41.45016	4946.12834		Acenaphthene
8.170	VB	128.43744	7.59911	976.01003		Fluorene
9.291	BB	68.83022	7.13713	491.24997		Phenanthrene
10.310	BB	216.08749	2.40817	520.37505		Anthracene
11.466	BB	39.23374	24.64805	967.03499		Fluoranthene
12.239	BP	67.75372	7.51160	508.93881		Pyrene
15.078	BV	76.80959	6.57644	505.13344		Benzo(a)anthracene
15.576	VB	91.38473	5.38541	492.14433		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.815	BB	65.39377	15.02906	982.80711		Benzo(b)fluoranthene
18.774	BB	198.87831	2.52646	502.45906		Benzo(k)fluoranthene
19.719	BB	108.22565	4.64045	502.21596		Benzo(a)pyrene
21.344	MF	31.83378	31.75456	1010.86765		Dibenz(a,h)anthracene
22.127	FM	61.84187	15.88598	982.41888		Benzo(g,h,i)perylene
22.632	FM	49.15816	10.36973	509.75698		Indeno(1,2,3-cd)pyrene

Totals : 4.27272e4

Results obtained with enhanced integrator!

*** End of Report ***

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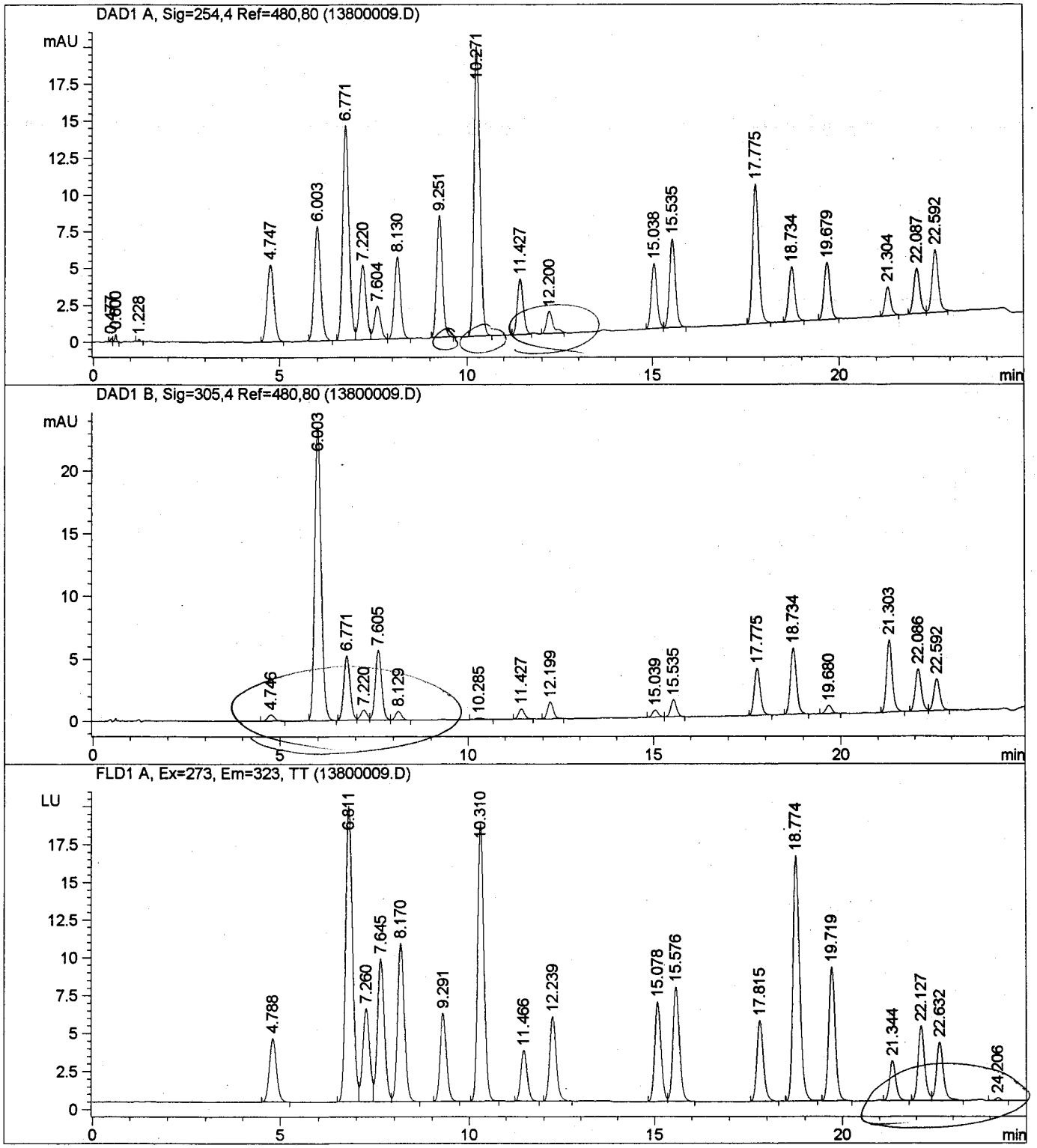
Injection Date	: 5/18/2006 9:27:42 PM	Seq. Line :	9
Sample Name	: ICAL,S3062	Location :	Vial 9
Acq. Operator	:	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Sequence File	: G:\HPLC4\SEQUENCE\051806.S		
Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		

HPLC04 METHOD 8310



External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.747	BB	66.00784	76.74366	5065.68344		Naphthalene
6.003	BP	94.78723	107.16262	1.01576e4		Acenaphthylene
6.771	BV	173.09207	117.61057	2.03575e4		1-Methylnaphthalene (UV)
7.220	VV	60.88431	86.65081	5275.67504		2-Methylnaphthalene
7.604	VV	26.89059	197.16682	5301.93189		Acenaphthene
8.130	VP	63.54686	15.86111	1007.92400		Fluorene
9.251	BB	90.80871	5.56434	505.29050		Phenanthrene
10.271	BB	215.28198	2.45555	528.63544		Anthracene
11.427	BB	41.29040	24.44131	1009.19134		Fluoranthene
12.200	BB	19.25382	30.22813	582.00685		Pyrene
15.038	BV	47.78680	11.04099	527.61359		Benzo(a)anthracene
15.535	VB	67.79062	7.53767	510.98350		Chrysene
17.775	BB	107.52938	9.42324	1013.27528		Benzo(b)fluoranthene
18.734	BB	41.83699	12.51259	523.48920		Benzo(k)fluoranthene
19.679	BB	44.20454	11.67508	516.09156		Benzo(a)pyrene
21.304	BB	21.81421	47.64691	1039.37946		Dibenz(a,h)anthracene
22.087	BV	35.90152	28.47528	1022.30574		Benzo(g,h,i)perylene
22.592	VB	50.25140	10.65929	535.64450		Indeno(1,2,3-cd)pyrene

Totals : 5.54802e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.003	BB	283.36636	35.90159	1.01733e4		Acenaphthylene
6.771	BV	62.20593	327.25890	2.03574e4		1-Methylnaphthalene (UV)

Totals : 3.05307e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.788	BB	55.85367	84.53565	4721.62655		Naphthalene
6.811	BV	247.30377	76.56078	1.89338e4		1-Methylnaphthalene (F)
7.260	VV	78.28068	62.48287	4891.20145		2-Methylnaphthalene
7.645	VV	119.32713	41.27029	4924.66503		Acenaphthene
8.170	VB	128.43744	7.54290	968.79023		Fluorene
9.291	BB	68.83022	7.09628	488.43876		Phenanthrene
10.310	BB	216.08749	2.41870	522.65006		Anthracene
11.466	BB	39.23374	24.43544	958.69373		Fluoranthene
12.239	BP	67.75372	7.49931	508.10642		Pyrene
15.078	BV	76.80959	6.57819	505.26812		Benzo(a)anthracene
15.576	VB	91.38473	5.36746	490.50382		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.815	BB	65.39377	14.94890	977.56498		Benzo(b)fluoranthene
18.774	BB	198.87831	2.52619	502.40408		Benzo(k)fluoranthene
19.719	BB	108.22565	4.63593	501.72649		Benzo(a)pyrene
21.344	VB	32.08181	31.73429	1018.09339		Dibenz(a,h)anthracene
22.127	BV	61.99461	15.80164	979.61673		Benzo(g,h,i)perylene
22.632	VB	50.43483	10.40733	524.89177		Indeno(1,2,3-cd)pyrene

Totals : 4.24180e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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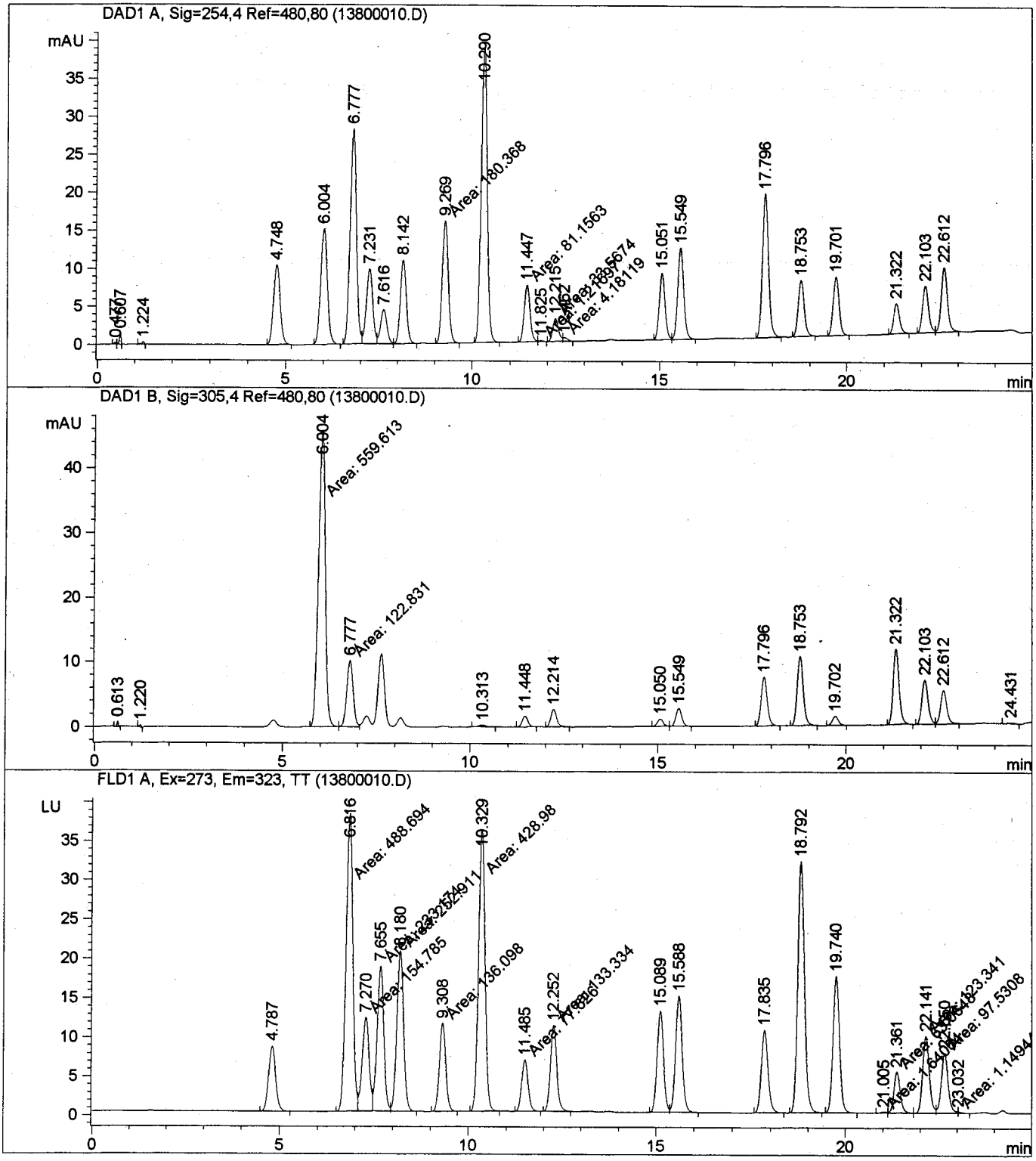
Injection Date	: 5/18/2006 9:59:20 PM	Seq. Line :	10
Sample Name	: ICAL,S3061	Location :	Vial 10
Acq. Operator	:	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 5/22/2006 3:16:08 PM (modified after loading)		

HPLC04 METHOD 8310



CJm 22MAY2006

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, May 22, 2006 3:16:07 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.748	BB	130.71696	76.88265	1.00499e4		Naphthalene
6.004	BP	187.08742	108.17547	2.02383e4		Acenaphthylene
6.777	BV	340.84924	118.27930	4.03154e4		1-Methylnaphthalene (UV)
7.231	VV	120.14920	86.52629	1.03961e4		2-Methylnaphthalene
7.616	VV	53.03941	197.59528	1.04803e4		Acenaphthene
8.142	VP	125.67238	15.89615	1997.70672		Fluorene
9.269	MM	180.36794	5.56956	1004.56957		Phenanthrene
10.290	BB	428.09290	2.44898	1048.38885		Anthracene
11.447	MF	81.15630	24.38102	1978.67352		Fluoranthene
12.215	MF	33.56740	29.90175	1003.72397		Pyrene
15.051	BV	94.79131	10.90985	1034.15935		Benzo(a)anthracene
15.549	VB	134.58353	7.50648	1010.24825		Chrysene
17.796	BB	213.44913	9.38973	2004.22920		Benzo(b)fluoranthene
18.753	BB	83.72203	12.33911	1033.05512		Benzo(k)fluoranthene
19.701	BB	87.60189	11.54393	1011.26973		Benzo(a)pyrene
21.322	BB	44.01789	46.74019	2057.40421		Dibenz(a,h)anthracene
22.103	BV	71.56614	28.20060	2018.20777		Benzo(g,h,i)perylene
22.612	VB	99.94793	10.47655	1047.10941		Indeno(1,2,3-cd)pyrene
Totals :				1.09729e5		

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.004	MF	559.61334	35.84867	2.00614e4		Acenaphthylene
6.777	MF	122.83121	328.29217	4.03245e4		1-Methylnaphthalene (UV)
Totals :				6.03859e4		

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.787	BB	110.44406	86.23241	9523.85763		Naphthalene
6.816	MF	488.69351	78.25434	3.82424e4		1-Methylnaphthalene (F)
7.270	MF	154.78474	63.16158	9776.44914		2-Methylnaphthalene
7.655	FM	233.17419	41.70006	9723.37784		Acenaphthene
8.180	FM	252.91112	7.66160	1937.70495		Fluorene
9.308	MM	136.09827	7.20018	979.93250		Phenanthrene
10.329	MF	428.97952	2.41475	1035.87975		Anthracene
11.485	MM	77.62599	24.67740	1915.60790		Fluoranthene
12.252	MM	133.33412	7.52665	1003.55946		Pyrene
15.089	BV	151.99316	6.59134	1001.83827		Benzo(a)anthracene
15.588	VB	180.56219	5.42067	978.76878		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.835	BB	129.20119	15.03529	1942.57735		Benzo(b)fluoranthene
18.792	BB	392.59399	2.54606	999.56844		Benzo(k)fluoranthene
19.740	BB	214.33957	4.66052	998.93354		Benzo(a)pyrene
21.361	MF	63.06483	31.52180	1987.91703		Dibenz(a,h)anthracene
22.141	MF	123.34122	15.81446	1950.57435		Benzo(g,h,i)perylene
22.650	FM	97.53080	10.31825	1006.34760		Indeno(1,2,3-cd)pyrene

Totals : 8.50053e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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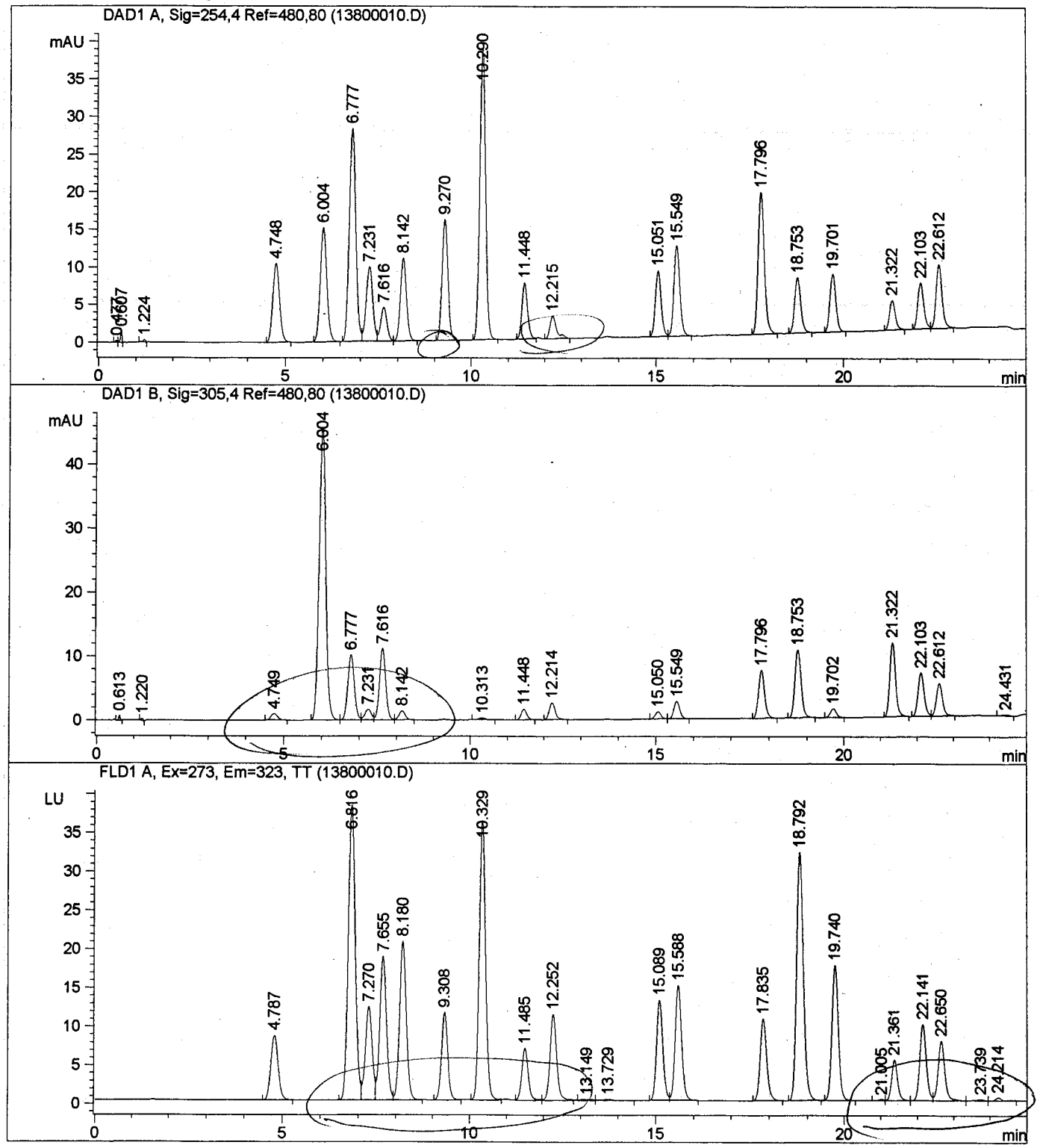
Injection Date	: 5/18/2006 9:59:20 PM	Seq. Line :	10
Sample Name	: ICAL,S3061	Location :	Vial 10
Acq. Operator	:	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Sequence File	: G:\HPLC4\SEQUENCE\051806.S		
Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		

HPLC04 METHOD 8310



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.748	BB	130.71696	76.92901	1.00559e4		Naphthalene
6.004	BP	187.08742	108.27875	2.02576e4		Acenaphthylene
6.777	BV	340.84924	118.35743	4.03420e4		1-Methylnaphthalene (UV)
7.231	VV	120.14920	86.96994	1.04494e4		2-Methylnaphthalene
7.616	VV	53.03941	198.73637	1.05409e4		Acenaphthene
8.142	VP	125.67238	15.88339	1996.10338		Fluorene
9.270	BP	179.71016	5.57145	1001.24549		Phenanthrene
10.290	BB	428.09290	2.46352	1054.61671		Anthracene
11.448	BB	81.31540	24.38455	1982.83926		Fluoranthene
12.215	BP	37.75097	30.01026	1132.91647		Pyrene
15.051	BV	94.79131	10.97704	1040.52767		Benzo(a)anthracene
15.549	VB	134.58353	7.51831	1011.84027		Chrysene
17.796	BB	213.44913	9.39845	2006.09135		Benzo(b)fluoranthene
18.753	BB	83.72203	12.40432	1038.51473		Benzo(k)fluoranthene
19.701	BB	87.60189	11.58407	1014.78632		Benzo(a)pyrene
21.322	BB	44.01789	46.97767	2067.85759		Dibenz(a,h)anthracene
22.103	BV	71.56614	28.23478	2020.65405		Benzo(g,h,i)perylene
22.612	VB	99.94793	10.57314	1056.76374		Indeno(1,2,3-cd)pyrene

Totals : 1.10071e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.004	BV	560.06903	35.88844	2.01000e4		Acenaphthylene
6.777	VV	123.09278	328.25519	4.04058e4		1-Methylnaphthalene (UV)

Totals : 6.05058e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.787	BB	110.44406	85.37302	9428.94253		Naphthalene
6.816	BV	487.92715	77.47294	3.78012e4		1-Methylnaphthalene (F)
7.270	VV	154.79007	62.87797	9732.88474		2-Methylnaphthalene
7.655	VV	234.63596	41.53818	9746.35004		Acenaphthene
8.180	VB	254.35931	7.61197	1936.17458		Fluorene
9.308	BB	137.84933	7.16019	987.02705		Phenanthrene
10.329	BB	432.64206	2.42452	1048.95086		Anthracene
11.485	BV	81.53288	24.47091	1995.18350		Fluoranthene
12.252	VB	138.32648	7.51570	1039.62037		Pyrene
15.089	BV	151.99316	6.58692	1001.16622		Benzo(a)anthracene
15.588	VB	180.56219	5.39615	974.33987		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.835	BB	129.20119	14.95172	1931.78042		Benzo(b)fluoranthene
18.792	BB	392.59399	2.54405	998.77704		Benzo(k)fluoranthene
19.740	BB	214.33957	4.65366	997.46401		Benzo(a)pyrene
21.361	VV	63.13339	31.50868	1989.24982		Dibenz(a,h)anthracene
22.141	VV	123.19981	15.73356	1938.37214		Benzo(g,h,i)perylene
22.650	VB	99.28861	10.34723	1027.36199		Indeno(1,2,3-cd)pyrene

Totals : 8.45748e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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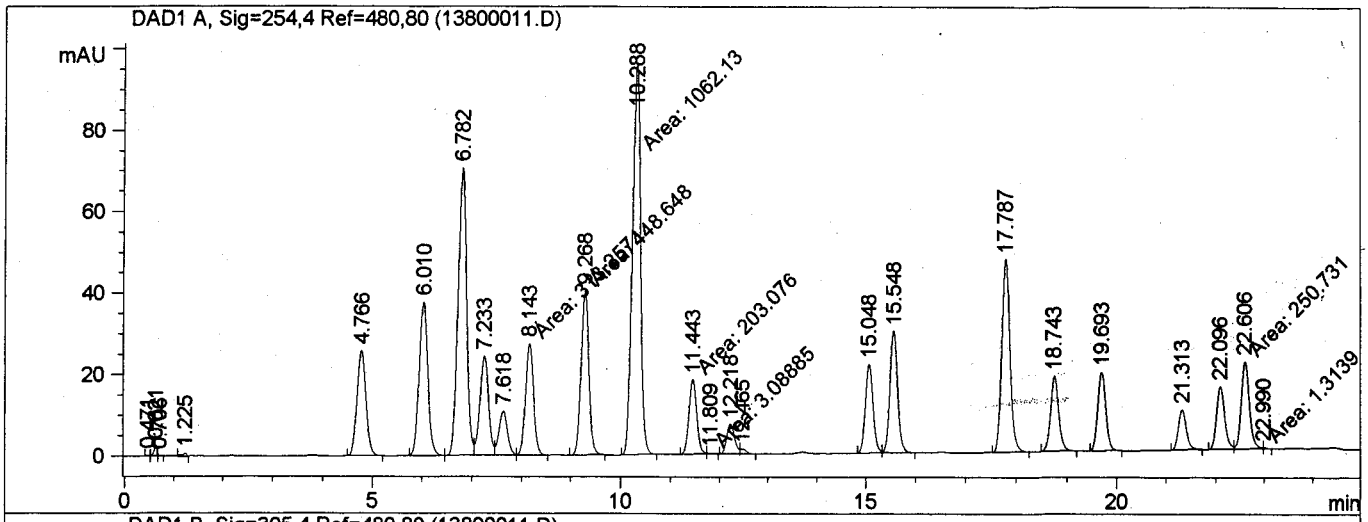
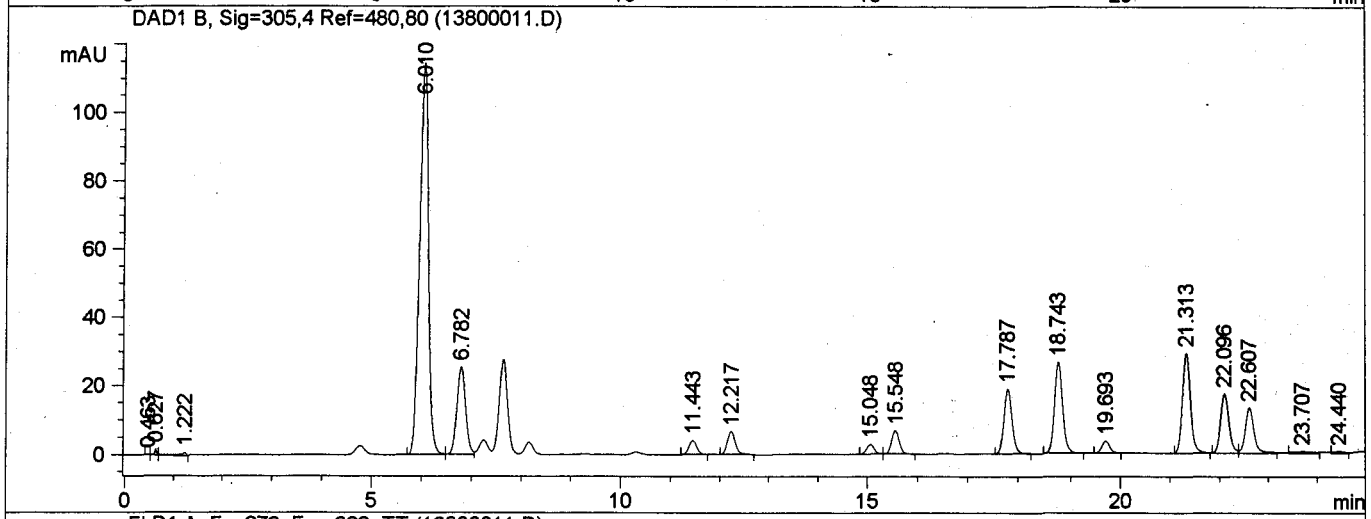
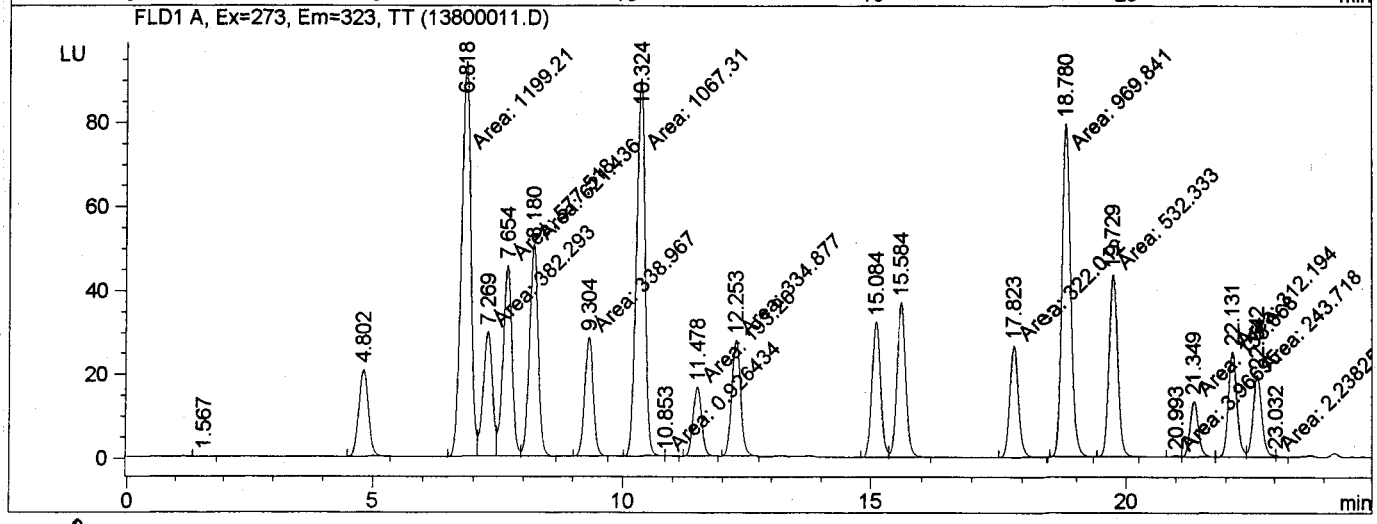
Injection Date	: 5/18/2006 10:31:01 PM	Seq. Line :	11
Sample Name	: ICAL,S3060	Location :	Vial 11
Acq. Operator	:	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 5/22/2006 3:21:32 PM (modified after loading)		

HPLC04 METHOD 8310







Jm 22MAY2006

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, May 22, 2006 3:21:31 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.766	BB	323.77454	77.03473	2.49419e4		Naphthalene
6.010	BP	462.20984	108.95921	5.03620e4		Acenaphthylene
6.782	VV	839.48529	118.81344	9.97421e4		1-Methylnaphthalene (UV)
7.233	VV	297.53644	86.84626	2.58399e4		2-Methylnaphthalene
7.618	VV	131.16444	199.10257	2.61152e4		Acenaphthene
8.143	MF	313.25665	15.90514	4982.38958		Fluorene
9.268	MM	448.64795	5.57507	2501.24265		Phenanthrene
10.288	MM	1062.12512	2.45979	2612.60556		Anthracene
11.443	MF	203.07642	24.36420	4947.79342		Fluoranthene
12.218	BV	83.91055	29.83193	2503.21375		Pyrene
15.048	BV	236.18423	10.90322	2575.16825		Benzo(a)anthracene
15.548	VB	334.09467	7.50045	2505.86040		Chrysene
17.787	BB	532.37317	9.38267	4995.07946		Benzo(b)fluoranthene
18.743	BB	208.88004	12.30105	2569.44342		Benzo(k)fluoranthene
19.693	BB	220.13969	11.51181	2534.20720		Benzo(a)pyrene
21.313	BP	110.60422	46.44187	5136.66707		Dibenz(a,h)anthracene
22.096	BV	181.34886	28.06000	5088.64952		Benzo(g,h,i)perylene
22.606	MF	250.73134	10.47541	2626.51304		Indeno(1,2,3-cd)pyrene

Totals : 2.72580e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.010	BV	1390.57104	35.87315	4.98842e4		Acenaphthylene
6.782	VV	304.35931	328.83554	1.00084e5		1-Methylnaphthalene (UV)

Totals : 1.49968e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.802	BB	274.47531	86.40738	2.37167e4		Naphthalene
6.818	MF	1199.20923	78.75727	9.44464e4		1-Methylnaphthalene (F)
7.269	MF	382.29327	63.42093	2.42454e4		2-Methylnaphthalene
7.654	MF	577.51837	41.92597	2.42130e4		Acenaphthene
8.180	FM	621.43634	7.70284	4786.82712		Fluorene
9.304	MM	338.96707	7.22229	2448.12001		Phenanthrene
10.324	MF	1067.30798	2.42183	2584.83993		Anthracene
11.478	MM	193.25951	24.60893	4755.90941		Fluoranthene
12.253	MM	334.87701	7.52983	2521.56751		Pyrene
15.084	BV	377.89438	6.59466	2492.08549		Benzo(a)anthracene
15.584	VB	448.13257	5.42929	2433.04015		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.823	MM	322.01157	15.00203	4830.82609		Benzo(b)fluoranthene
18.780	MF	969.84100	2.55700	2479.88194		Benzo(k)fluoranthene
19.729	FM	532.33307	4.66865	2485.27878		Benzo(a)pyrene
21.349	MF	158.06801	31.38061	4960.27030		Dibenz(a,h)anthracene
22.131	MF	312.19437	15.73373	4911.98087		Benzo(g,h,i)perylene
22.642	FM	243.71762	10.29974	2510.22694		Indeno(1,2,3-cd)pyrene
Totals :				2.10822e5		

Results obtained with enhanced integrator!

*** End of Report ***

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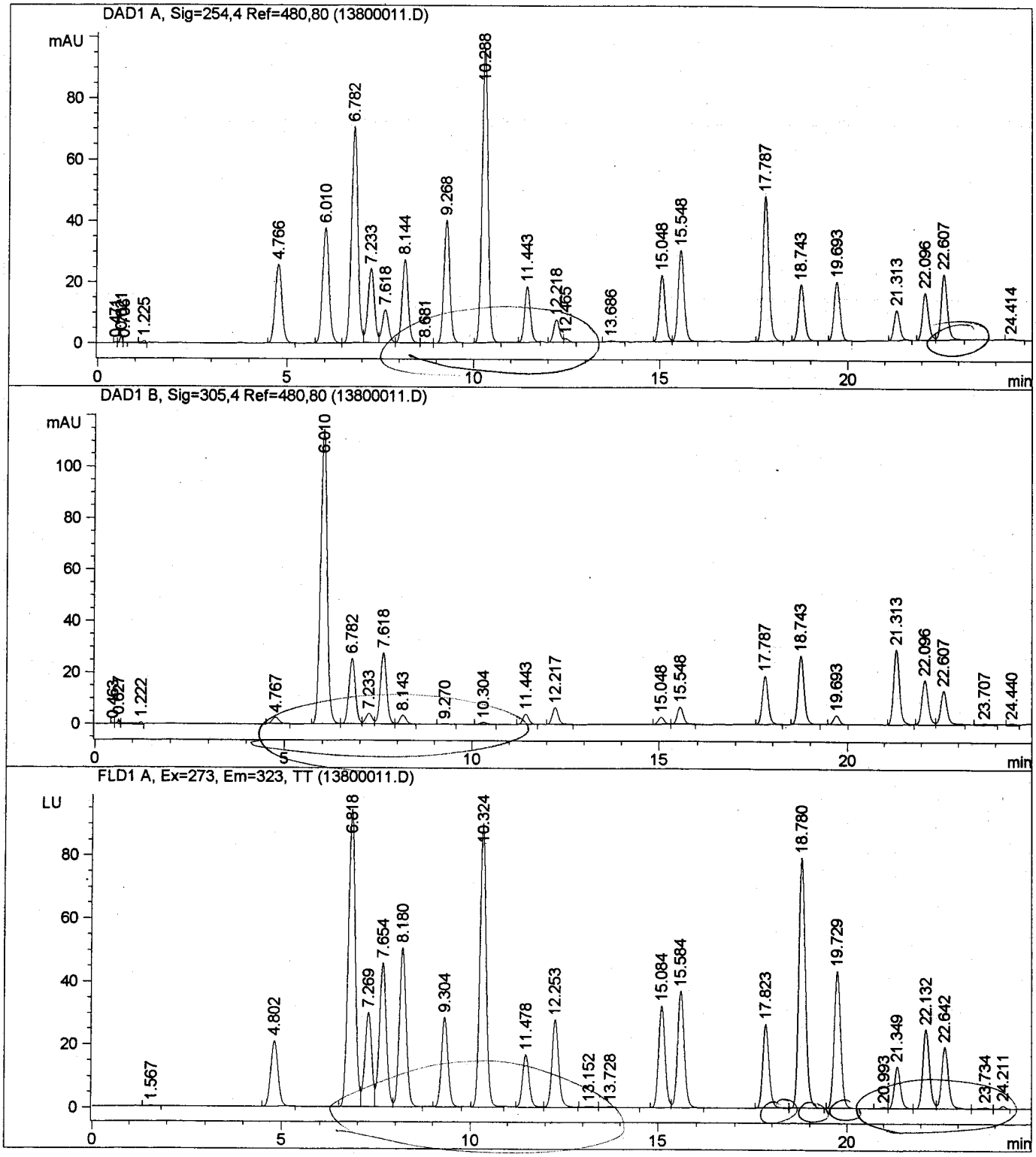
Injection Date : 5/18/2006 10:31:01 PM
Sample Name : ICAL,S3060
Acq. Operator :
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\051806.S
Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL
HPLC04 METHOD 8310

Seq. Line : 11
Location : Vial 11
Inj : 1
Inj Volume : 10 µl



External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.766	BB	323.77454	77.04174	2.49442e4		Naphthalene
6.010	BP	462.20984	108.96101	5.03629e4		Acenaphthylene
6.782	VV	839.48529	118.81516	9.97436e4		1-Methylnaphthalene (UV)
7.233	VV	297.53644	87.16540	2.59349e4		2-Methylnaphthalene
7.618	VV	131.16444	199.69775	2.61932e4		Acenaphthene
8.144	VB	313.39435	15.89704	4982.04190		Fluorene
9.268	VP	448.48541	5.57580	2500.66337		Phenanthrene
10.288	BB	1061.97949	2.46834	2621.32432		Anthracene
11.443	BB	203.57274	24.34938	4956.87079		Fluoranthene
12.218	BV	83.91055	29.88551	2507.70959		Pyrene
15.048	BV	236.18423	10.93811	2583.40986		Benzo(a)anthracene
15.548	VB	334.09467	7.50657	2507.90488		Chrysene
17.787	BB	532.37317	9.38338	4995.45759		Benzo(b)fluoranthene
18.743	BB	208.88004	12.33952	2577.47867		Benzo(k)fluoranthene
19.693	BB	220.13969	11.52826	2537.82663		Benzo(a)pyrene
21.313	BP	110.60422	46.58184	5152.14743		Dibenz(a,h)anthracene
22.096	BV	181.34886	28.08822	5093.76675		Benzo(g,h,i)perylene
22.607	VB	252.14905	10.52056	2652.74918		Indeno(1,2,3-cd)pyrene

Totals : 2.72848e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.010	BV	1390.57104	35.88040	4.98942e4		Acenaphthylene
6.782	VV	304.35931	328.86140	1.00092e5		1-Methylnaphthalene (UV)

Totals : 1.49986e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.802	BB	274.47531	85.88502	2.35733e4		Naphthalene
6.818	BV	1198.31677	78.02871	9.35031e4		1-Methylnaphthalene (F)
7.269	VV	383.06503	63.11886	2.41786e4		2-Methylnaphthalene
7.654	VV	579.99280	41.70325	2.41876e4		Acenaphthene
8.180	VB	625.75739	7.65378	4789.40940		Fluorene
9.304	BB	344.67456	7.19843	2481.11505		Phenanthrene
10.324	BB	1075.74207	2.42800	2611.90128		Anthracene
11.478	BV	202.66354	24.49057	4963.34569		Fluoranthene
12.253	VB	346.76657	7.52516	2609.47292		Pyrene
15.084	BV	377.89438	6.59224	2491.17223		Benzo(a)anthracene
15.584	VB	448.13257	5.41370	2426.05403		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.823	BV	322.26624	14.95346	4818.99407		Benzo(b)fluoranthene
18.780	VB	971.35138	2.55497	2481.77271		Benzo(k)fluoranthene
19.729	BB	534.24500	4.66449	2491.98169		Benzo(a)pyrene
21.349	VV	159.44664	31.36788	5001.50353		Dibenz(a,h)anthracene
22.132	VV	312.34949	15.69181	4901.32775		Benzo(g,h,i)perylene
22.642	VP	247.08812	10.31012	2547.50745		Indeno(1,2,3-cd)pyrene

Totals : 2.10058e5

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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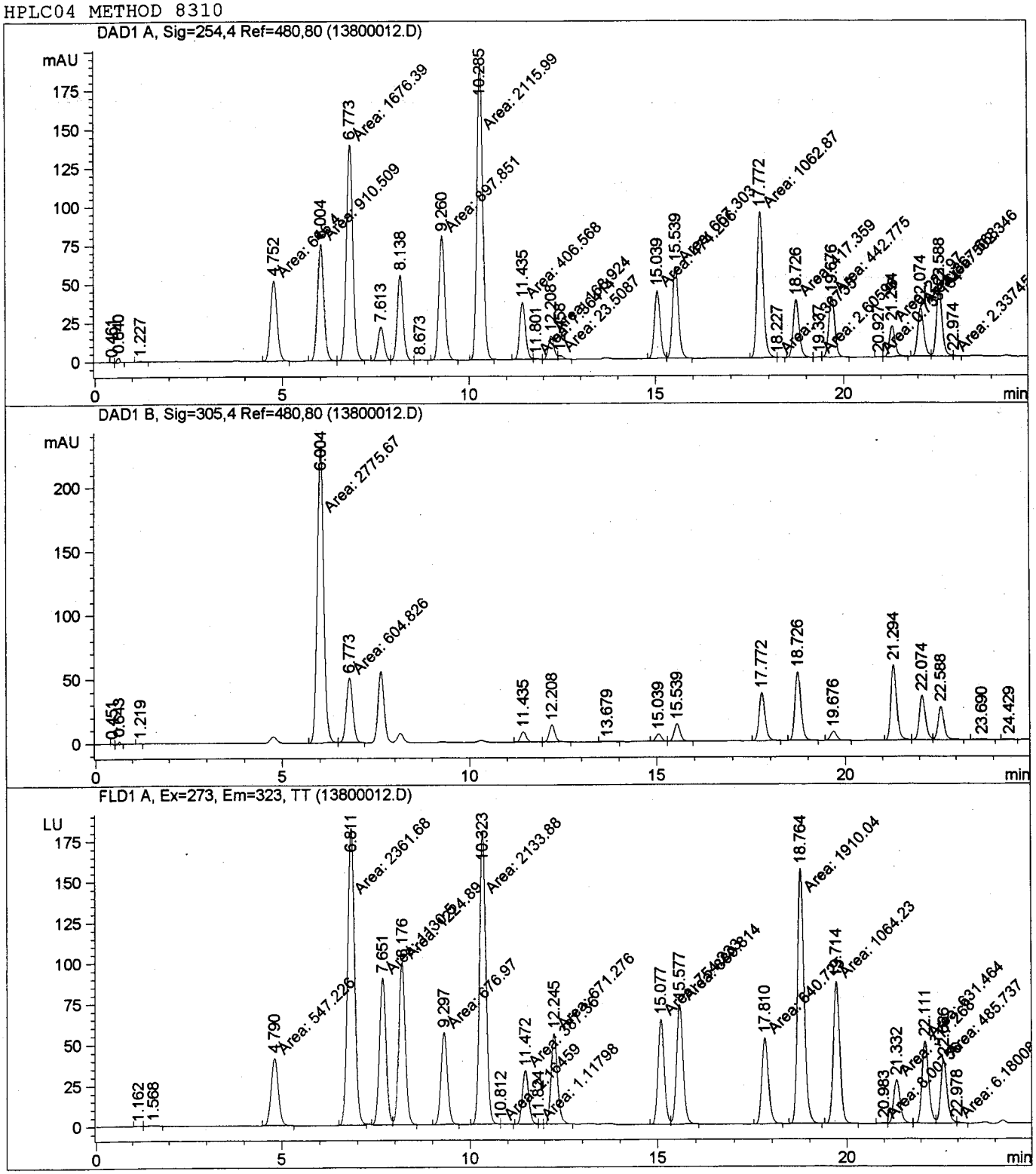
Injection Date	: 5/18/2006 11:02:39 PM	Seq. Line :	12
Sample Name	: ICAL,S3059	Location :	Vial 12
Acq. Operator	:	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 5/22/2006 3:28:39 PM (modified after loading)		

HPLC04 METHOD 8310



Jm 22MAY2006

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, May 22, 2006 3:28:38 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.752	MF	646.40033	77.07612	4.98220e4		Naphthalene
6.004	FM	910.50854	109.18851	9.94171e4		Acenaphthylene
6.773	MF	1676.38977	118.98882	1.99472e5		1-Methylnaphthalene (UV)
7.233		-	-	-		2-Methylnaphthalene
7.613	VV	254.87729	198.40751	5.05696e4		Acenaphthene
8.138	VV	624.78467	15.90421	9936.70941		Fluorene
9.260	MM	897.85052	5.57146	5002.33922		Phenanthrene
10.285	MM	2115.98950	2.44709	5178.02103		Anthracene
11.435	MF	406.56757	24.35786	9903.11580		Fluoranthene
12.208	MF	168.92415	29.76318	5027.71993		Pyrene
15.039	MF	474.20624	10.83458	5137.82420		Benzo(a)anthracene
15.539	FM	667.30255	7.48652	4995.77581		Chrysene
17.772	MF	1062.87402	9.37069	9959.86236		Benzo(b)fluoranthene
18.726	MF	417.35922	12.22679	5102.96369		Benzo(k)fluoranthene
19.676	FM	442.77490	11.46298	5075.52159		Benzo(a)pyrene
21.294	FM	222.97006	46.12782	1.02851e4		Dibenz(a,h)anthracene
22.074	MF	367.56784	27.89437	1.02531e4		Benzo(g,h,i)perylene
22.588	MF	502.34595	10.39287	5220.81462		Indeno(1,2,3-cd)pyrene

Totals : 4.90359e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.004	MF	2775.66528	35.86107	9.95383e4		Acenaphthylene
6.773	FM	604.82648	328.74202	1.98832e5		1-Methylnaphthalene (UV)

Totals : 2.98370e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.790	MM	547.22638	87.08962	4.76577e4		Naphthalene
6.811	MF	2361.67969	83.32765	1.96793e5		1-Methylnaphthalene (F)
7.269		-	-	-		2-Methylnaphthalene
7.651	MF	1130.49866	43.28515	4.89338e4		Acenaphthene
8.176	FM	1224.89038	8.04138	9849.80577		Fluorene
9.297	MM	676.96960	7.24241	4902.89295		Phenanthrene
10.323	MF	2133.87500	2.41150	5145.83830		Anthracene
11.472	MF	387.35989	24.72890	9578.98339		Fluoranthene
12.245	FM	671.27612	7.50107	5035.28740		Pyrene
15.077	MF	754.23340	6.59027	4970.60031		Benzo(a)anthracene
15.577	FM	889.81403	5.44895	4848.55299		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.810	MF	640.72485	15.04099	9637.13468		Benzo(b)fluoranthene
18.764	MF	1910.04431	2.56418	4897.69612		Benzo(k)fluoranthene
19.714	FM	1064.23083	4.67173	4971.79629		Benzo(a)pyrene
21.332	MF	317.26797	31.32419	9938.16173		Dibenz(a,h)anthracene
22.111	MF	631.46387	15.72006	9926.65107		Benzo(g,h,i)perylene
22.626	MF	485.73682	10.27600	4991.42935		Indeno(1,2,3-cd)pyrene

Totals : 3.82080e5

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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*** End of Report ***

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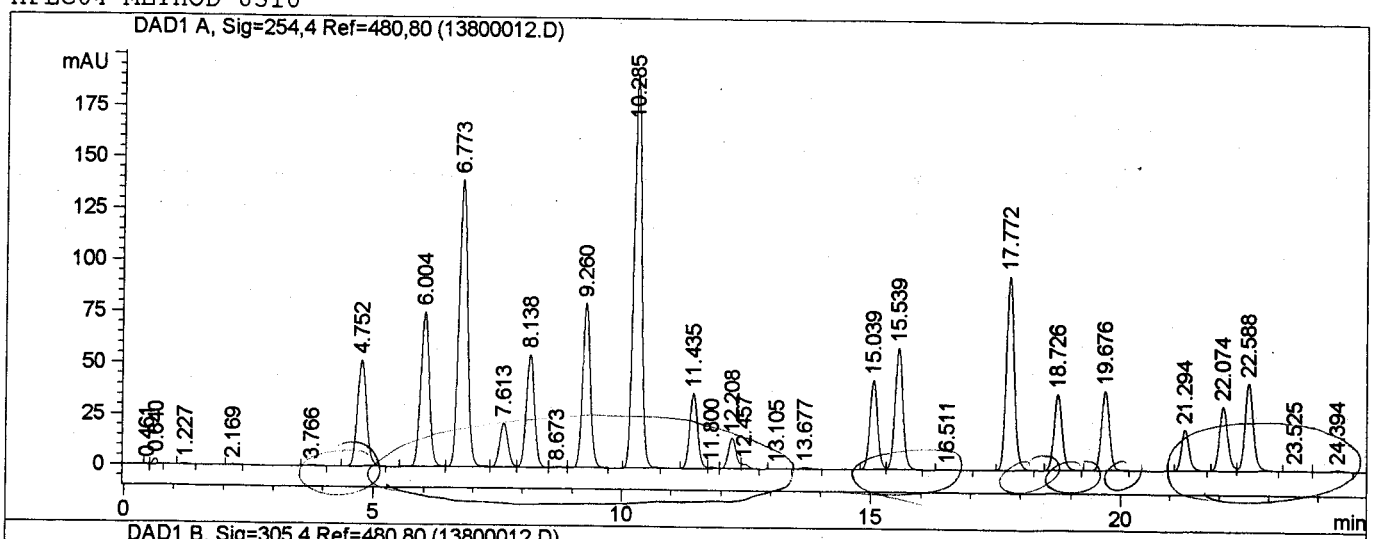
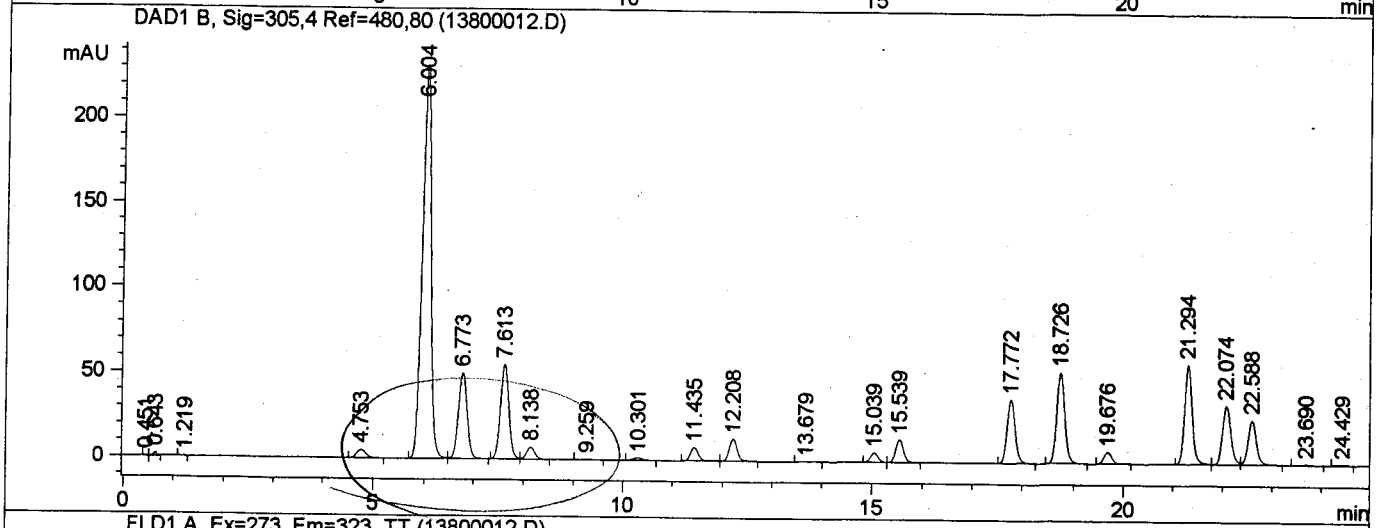
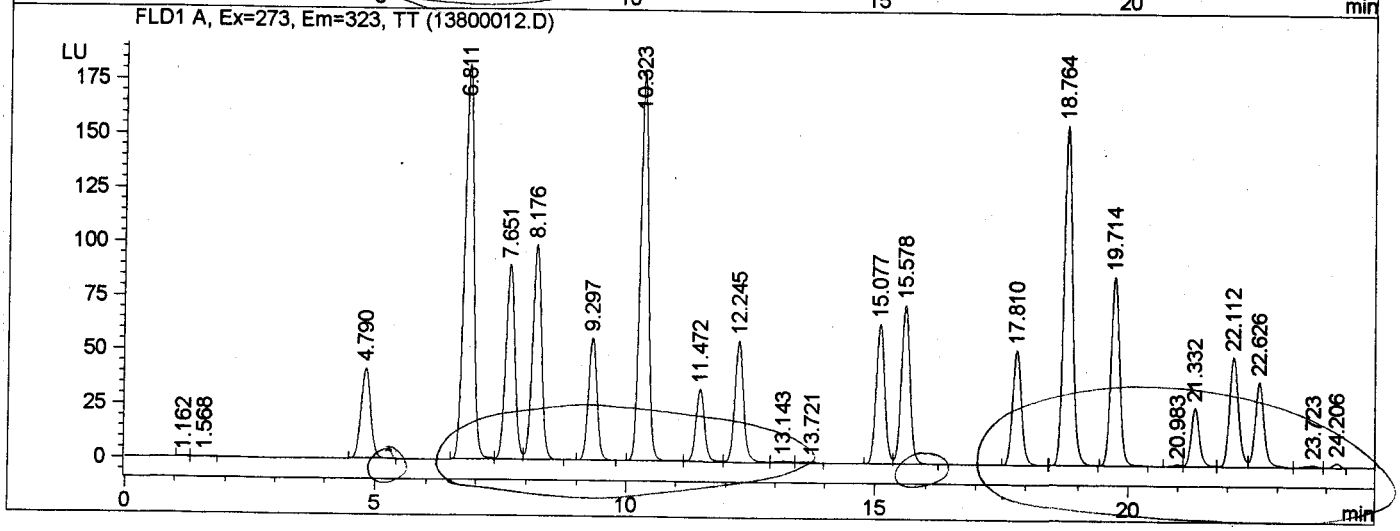
Injection Date	: 5/18/2006 11:02:39 PM	Seq. Line :	12
Sample Name	: ICAL,S3059	Location :	Vial 12
Acq. Operator	:	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Sequence File	: G:\HPLC4\SEQUENCE\051806.S		
Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		

HPLC04 METHOD 8310







External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.752	BB	647.11890	77.07988	4.98798e4		Naphthalene
6.004	BV	912.25122	109.18989	9.96086e4		Acenaphthylene
6.773	VV	1680.09778	118.97171	1.99884e5		1-Methylnaphthalene (UV)
7.280		-	-	-		2-Methylnaphthalene
7.613	VV	254.87729	200.01456	5.09792e4		Acenaphthene
8.138	VV	624.78467	15.90159	9935.07086		Fluorene
9.260	VP	897.27557	5.57725	5004.33135		Phenanthrene
10.285	BB	2119.75391	2.46996	5235.70870		Anthracene
11.435	BV	408.83698	24.33764	9950.12774		Fluoranthene
12.208	VV	170.09651	29.83382	5074.62814		Pyrene
15.039	BV	473.34891	10.92504	5171.35520		Benzo(a)anthracene
15.539	VB	667.50586	7.50261	5008.03940		Chrysene
17.772	BB	1063.61365	9.37834	9974.92650		Benzo(b)fluoranthene
18.726	BB	418.83893	12.31779	5159.16865		Benzo(k)fluoranthene
19.676	BB	446.29416	11.50956	5136.65018		Benzo(a)pyrene
21.294	BB	225.02155	46.44878	1.04520e4		Dibenz(a,h)anthracene
22.074	BV	371.40533	28.03933	1.04140e4		Benzo(g,h,i)perylene
22.588	VB	515.19666	10.50293	5411.07420		Indeno(1,2,3-cd)pyrene

Totals : 4.92279e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.004	BV	2778.81055	35.87769	9.96973e4		Acenaphthylene
6.773	VB	611.06848	329.06802	2.01083e5		1-Methylnaphthalene (UV)

Totals : 3.00780e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.790	PB	547.48273	86.05693	4.71147e4		Naphthalene
6.811	BV	2369.09570	78.21735	1.85304e5		1-Methylnaphthalene (F)
7.335		-	-	-		2-Methylnaphthalene
7.651	VV	1133.23621	41.75800	4.73217e4		Acenaphthene
8.176	VB	1233.21008	7.66789	9456.11427		Fluorene
9.297	BB	689.82300	7.21118	4974.43826		Phenanthrene
10.323	BV	2161.75854	2.42917	5251.28847		Anthracene
11.472	VV	409.37646	24.49725	1.00286e4		Fluoranthene
12.245	VB	697.09406	7.52831	5247.94082		Pyrene
15.077	BV	753.48712	6.59403	4968.51811		Benzo(a)anthracene
15.578	VB	891.79449	5.41959	4833.16022		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.810	BV	642.02924	14.95403	9600.92695		Benzo(b)fluoranthene
18.764	VB	1914.31885	2.55862	4898.01258		Benzo(k)fluoranthene
19.714	BB	1070.08130	4.66813	4995.27412		Benzo(a)pyrene
21.332	VV	322.53784	31.32121	1.01023e4		Dibenz(a,h)anthracene
22.112	VV	634.13263	15.67801	9941.93455		Benzo(g,h,i)perylene
22.626	VV	498.78516	10.29754	5136.25837		Indeno(1,2,3-cd)pyrene

Totals : 3.69175e5

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 187112 HPLC Water
EPA 8310

Inst : HPLC04
Calnum : 296199754001 Cal Date: 18-MAY-2006

ICV 296199754015 (13800015 19-MAY-2006) stds: S3051

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1	0.0130	0.0134	5000	5126	ug/L	3	15	
Acenaphthylene	1	0.0093	0.0100	10000	10680	ug/L	7	15	
Acenaphthene	1	0.0052	0.0057	5000	5392	ug/L	8	15	
Fluorene	1	0.0627	0.0646	1000	1028	ug/L	3	15	
Phenanthrene	1	0.1800	0.1815	500.0	503.1	ug/L	1	15	
Anthracene	1	0.4248	0.4384	500.0	513.4	ug/L	3	15	
Fluoranthene	1	0.0409	0.0422	1000	1034	ug/L	3	15	
Pyrene	1	0.0342	0.0343	500.0	508.5	ug/L	2	15	
Benzo(a)anthracene	1	0.0943	0.0969	500.0	511.5	ug/L	2	15	
Chrysene	1	0.1335	0.1357	500.0	505.0	ug/L	1	15	
Benzo(b)fluoranthene	1	0.1059	0.1090	1000	1023	ug/L	2	15	
Benzo(k)fluoranthene	1	0.0821	0.0850	500.0	510.7	ug/L	2	15	
Benzo(a)pyrene	1	0.0870	0.0890	500.0	508.4	ug/L	2	15	
Dibenz(a,h)anthracene	1	0.0212	0.0222	1000	1017	ug/L	2	15	
Benzo(g,h,i)perylene	1	0.0351	0.0359	1000	1004	ug/L	0	15	
Indeno(1,2,3-cd)pyrene	1	0.0976	0.1026	500.0	515.2	ug/L	3	15	
Acenaphthylene	2	0.0279	0.0285	10000	10180	ug/L	2	15	
Naphthalene	3	0.0110	0.0113	5000	5130	ug/L	3	15	
Acenaphthene	3	0.0233	0.0248	5000	5302	ug/L	6	15	
Fluorene	3	0.1263	0.1289	1000	1020	ug/L	2	15	
Phenanthrene	3	0.1362	0.1386	500.0	508.6	ug/L	2	15	
Anthracene	3	0.4263	0.4399	500.0	513.7	ug/L	3	15	
Fluoranthene	3	0.0387	0.0407	1000	1050	ug/L	5	15	
Pyrene	3	0.1332	0.1384	500.0	517.2	ug/L	3	15	
Benzo(a)anthracene	3	0.1515	0.1558	500.0	512.8	ug/L	3	15	
Chrysene	3	0.1803	0.1841	500.0	509.6	ug/L	2	15	
Benzo(b)fluoranthene	3	0.0643	0.0664	1000	1027	ug/L	3	15	
Benzo(k)fluoranthene	3	0.3904	0.4029	500.0	513.5	ug/L	3	15	
Benzo(a)pyrene	3	0.2132	0.2200	500.0	513.9	ug/L	3	15	
Dibenz(a,h)anthracene	3	0.0311	0.0322	1000	1025	ug/L	3	15	
Benzo(g,h,i)perylene	3	0.0613	0.0619	1000	1004	ug/L	0	15	
Indeno(1,2,3-cd)pyrene	3	0.0971	0.1010	500.0	517.9	ug/L	4	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187112 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: L IDF : 1.0
Seqnum : 296226976002 File : 15700002 Time : 06-JUN-2006 15:28
Cal : 296199754001 Caldate : 18-MAY-2006
Standards: S3190

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0130	2500	2467	ug/L	-1	15	
Acenaphthylene	1	0.0093	0.0092	5000	4761	ug/L	-5	15	
Acenaphthene	1	0.0052	0.0053	2500	2396	ug/L	-4	15	
Fluorene	1	0.0627	0.0619	500.0	489.8	ug/L	-2	15	
Phenanthrene	1	0.1800	0.1779	250.0	245.2	ug/L	-2	15	
Anthracene	1	0.4248	0.4269	250.0	247.6	ug/L	-1	15	
Fluoranthene	1	0.0409	0.0404	500.0	493.3	ug/L	-1	15	
Pyrene	1	0.0342	0.0341	250.0	252.6	ug/L	1	15	
Benzo(a)anthracene	1	0.0943	0.0942	250.0	249.1	ug/L	0	15	
Chrysene	1	0.1335	0.1342	250.0	248.1	ug/L	-1	15	
Benzo(b)fluoranthene	1	0.1059	0.1043	500.0	487.9	ug/L	-2	15	
Benzo(k)fluoranthene	1	0.0821	0.0802	250.0	241.9	ug/L	-3	15	
Benzo(a)pyrene	1	0.0870	0.0845	250.0	244.7	ug/L	-2	15	
Dibenz(a,h)anthracene	1	0.0212	0.0200	500.0	471.0	ug/L	-6	15	
Benzo(g,h,i)perylene	1	0.0351	0.0342	500.0	493.3	ug/L	-1	15	
Indeno(1,2,3-cd)pyrene	1	0.0976	0.0929	250.0	235.9	ug/L	-6	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0085	50000	50520	ug/L	1	15	
Acenaphthylene	2	0.0279	0.0277	5000	4908	ug/L	-2	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0031	50000	50340	ug/L	1	15	
Naphthalene	3	0.0110	0.0113	2500	2539	ug/L	2	15	
Acenaphthene	3	0.0233	0.0240	2500	2472	ug/L	-1	15	
Fluorene	3	0.1263	0.1270	500.0	486.4	ug/L	-3	15	
Phenanthrene	3	0.1362	0.1389	250.0	253.2	ug/L	1	15	
Anthracene	3	0.4263	0.4345	250.0	252.8	ug/L	1	15	
Fluoranthene	3	0.0387	0.0390	500.0	502.2	ug/L	0	15	
Pyrene	3	0.1332	0.1397	250.0	261.9	ug/L	5	15	
Benzo(a)anthracene	3	0.1515	0.1542	250.0	251.7	ug/L	1	15	
Chrysene	3	0.1803	0.1844	250.0	251.3	ug/L	1	15	
Benzo(b)fluoranthene	3	0.0643	0.0648	500.0	496.7	ug/L	-1	15	
Benzo(k)fluoranthene	3	0.3904	0.3936	250.0	243.8	ug/L	-2	15	
Benzo(a)pyrene	3	0.2132	0.2171	250.0	252.1	ug/L	1	15	
Dibenz(a,h)anthracene	3	0.0311	0.0304	500.0	488.4	ug/L	-2	15	
Benzo(g,h,i)perylene	3	0.0613	0.0611	500.0	508.2	ug/L	2	15	
Indeno(1,2,3-cd)pyrene	3	0.0971	0.0936	250.0	239.0	ug/L	-4	15	
1-Methylnaphthalene (F)	3	0.0122	0.0126	50000	52650	ug/L	5	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187112 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: M IDF : 1.0
Seqnum : 296226976011 File : 15700011 Time : 06-JUN-2006 20:12
Cal : 296199754001 Caldate : 18-MAY-2006
Standards: S3192

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0133	5000	5099	ug/L	2	15	
Acenaphthylene	1	0.0093	0.0094	10000	10030	ug/L	0	15	
Acenaphthene	1	0.0052	0.0054	5000	5057	ug/L	1	15	
Fluorene	1	0.0627	0.0635	1000	1011	ug/L	1	15	
Phenanthrene	1	0.1800	0.1821	500.0	504.7	ug/L	1	15	
Anthracene	1	0.4248	0.4339	500.0	508.1	ug/L	2	15	
Fluoranthene	1	0.0409	0.0412	1000	1010	ug/L	1	15	
Pyrene	1	0.0342	0.0341	500.0	505.0	ug/L	1	15	
Benzo(a)anthracene	1	0.0943	0.0962	500.0	507.8	ug/L	2	15	
Chrysene	1	0.1335	0.1367	500.0	508.8	ug/L	2	15	
Benzo(b)fluoranthene	1	0.1059	0.1075	1000	1008	ug/L	1	15	
Benzo(k)fluoranthene	1	0.0821	0.0838	500.0	503.4	ug/L	1	15	
Benzo(a)pyrene	1	0.0870	0.0875	500.0	500.0	ug/L	0	15	
Dibenz(a,h)anthracene	1	0.0212	0.0218	1000	1002	ug/L	0	15	
Benzo(g,h,i)perylene	1	0.0351	0.0359	1000	1005	ug/L	0	15	
Indeno(1,2,3-cd)pyrene	1	0.0976	0.0992	500.0	498.3	ug/L	0	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0085	50000	50240	ug/L	0	15	
Acenaphthylene	2	0.0279	0.0283	10000	10120	ug/L	1	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	49850	ug/L	0	15	
Naphthalene	3	0.0110	0.0114	5000	5169	ug/L	3	15	
Acenaphthene	3	0.0233	0.0241	5000	5146	ug/L	3	15	
Fluorene	3	0.1263	0.1291	1000	1022	ug/L	2	15	
Phenanthrene	3	0.1362	0.1382	500.0	507.2	ug/L	1	15	
Anthracene	3	0.4263	0.4405	500.0	514.4	ug/L	3	15	
Fluoranthene	3	0.0387	0.0393	1000	1013	ug/L	1	15	
Pyrene	3	0.1332	0.1342	500.0	501.8	ug/L	0	15	
Benzo(a)anthracene	3	0.1515	0.1557	500.0	512.3	ug/L	2	15	
Chrysene	3	0.1803	0.1854	500.0	513.3	ug/L	3	15	
Benzo(b)fluoranthene	3	0.0643	0.0662	1000	1025	ug/L	2	15	
Benzo(k)fluoranthene	3	0.3904	0.4047	500.0	515.9	ug/L	3	15	
Benzo(a)pyrene	3	0.2132	0.2199	500.0	513.7	ug/L	3	15	
Dibenz(a,h)anthracene	3	0.0311	0.0317	1000	1008	ug/L	1	15	
Benzo(g,h,i)perylene	3	0.0613	0.0623	1000	1011	ug/L	1	15	
Indeno(1,2,3-cd)pyrene	3	0.0971	0.0982	500.0	503.2	ug/L	1	15	
1-Methylnaphthalene (F)	3	0.0122	0.0123	50000	51550	ug/L	3	15	

SEQUENCE SUMMARY FOR 187112 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296199754 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 18-MAY-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	13800001	X	PRIMER - 138			18-MAY-2006 17:14	1.0						
002	13800002	X	PRIMER			18-MAY-2006 17:46	1.0						
003	13800003	X	IB - 138			18-MAY-2006 18:17	1.0						
004	13800004	X	IB			18-MAY-2006 18:49	1.0						
005	13800005	X	IB			18-MAY-2006 19:21	1.0						
006	13800006	ICAL				18-MAY-2006 19:52	1.0					1	
007	13800007	ICAL				18-MAY-2006 20:24	1.0					2	
008	13800008	ICAL				18-MAY-2006 20:56	1.0					3	
009	13800009	ICAL				18-MAY-2006 21:27	1.0					4	
010	13800010	ICAL				18-MAY-2006 21:59	1.0					5	
011	13800011	ICAL				18-MAY-2006 22:31	1.0					6	
012	13800012	ICAL				18-MAY-2006 23:02	1.0					7	
013	13800013	X	IB			18-MAY-2006 23:34	1.0						
014	13800014	X	IB			19-MAY-2006 00:05	1.0						
015	13800015	ICV	ICV			19-MAY-2006 00:37	1.0		10			8	232
016	13800016	X	ICV			19-MAY-2006 01:09	1.0					8	
017	13800017	X	IB			19-MAY-2006 01:40	1.0						

Stds used: 1=S3065 2=S3064 3=S3063 4=S3062 5=S3061 6=S3060 7=S3059 8=S3051

SEQUENCE SUMMARY FOR 187112 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296226976 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 06-JUN-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
001	15700001	X	IB - 157			06-JUN-2006 14:56	1.0				
002	15700002	CCV	L			06-JUN-2006 15:28	1.0	1.0	10	1	
003	15700003	X	CCV			06-JUN-2006 15:59	1.0			1	
004	15700004	X	IB			06-JUN-2006 16:31	1.0				
005	15700005	BLANK	QC342453	114043	Water	06-JUN-2006 17:02	1.0	0.002	10		
006	15700006	SAMPLE	187112-001	114043	Water	06-JUN-2006 17:34	1.0	0.001887	10		
007	15700007	SAMPLE	187112-013	114043	Water	06-JUN-2006 18:06	1.0	0.001887	10		
008	15700008	BS	QC342454	114043	Water	06-JUN-2006 18:37	1.0	0.002	10		
009	15700009	BSD	QC342455	114043	Water	06-JUN-2006 19:09	1.0	0.002	10		
010	15700010	X	IB			06-JUN-2006 19:41	1.0				
011	15700011	CCV	M			06-JUN-2006 20:12	1.0	1.0	10	2	
012	15700012	X	CCV			06-JUN-2006 20:44	1.0			2	
013	15700013	X	IB			06-JUN-2006 21:16	1.0				

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Stds used: 1=S3190 2=S3192

REPORTING SUMMARY FOR 187112 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
187112-001	Naphthalene	HPLC04	1	06/06/06 17:34
187112-001	Acenaphthylene	HPLC04	1	06/06/06 17:34
187112-001	Acenaphthene	HPLC04	1	06/06/06 17:34
187112-001	Fluorene	HPLC04	1	06/06/06 17:34
187112-001	Phenanthrene	HPLC04	3	06/06/06 17:34
187112-001	Anthracene	HPLC04	3	06/06/06 17:34
187112-001	Fluoranthene	HPLC04	3	06/06/06 17:34
187112-001	Pyrene	HPLC04	3	06/06/06 17:34
187112-001	Benzo(a)anthracene	HPLC04	3	06/06/06 17:34
187112-001	Chrysene	HPLC04	3	06/06/06 17:34
187112-001	Benzo(b)fluoranthene	HPLC04	3	06/06/06 17:34
187112-001	Benzo(k)fluoranthene	HPLC04	3	06/06/06 17:34
187112-001	Benzo(a)pyrene	HPLC04	3	06/06/06 17:34
187112-001	Dibenz(a,h)anthracene	HPLC04	3	06/06/06 17:34
187112-001	Benzo(g,h,i)perylene	HPLC04	3	06/06/06 17:34
187112-001	Indeno(1,2,3-cd)pyrene	HPLC04	3	06/06/06 17:34
187112-001	1-Methylnaphthalene (UV)	HPLC04	1	06/06/06 17:34
187112-001	1-Methylnaphthalene (F)	HPLC04	3	06/06/06 17:34
187112-013	Naphthalene	HPLC04	1	06/06/06 18:06
187112-013	Acenaphthylene	HPLC04	1	06/06/06 18:06
187112-013	Acenaphthene	HPLC04	1	06/06/06 18:06
187112-013	Fluorene	HPLC04	1	06/06/06 18:06
187112-013	Phenanthrene	HPLC04	3	06/06/06 18:06
187112-013	Anthracene	HPLC04	3	06/06/06 18:06
187112-013	Fluoranthene	HPLC04	3	06/06/06 18:06
187112-013	Pyrene	HPLC04	3	06/06/06 18:06
187112-013	Benzo(a)anthracene	HPLC04	3	06/06/06 18:06
187112-013	Chrysene	HPLC04	3	06/06/06 18:06
187112-013	Benzo(b)fluoranthene	HPLC04	3	06/06/06 18:06
187112-013	Benzo(k)fluoranthene	HPLC04	3	06/06/06 18:06
187112-013	Benzo(a)pyrene	HPLC04	3	06/06/06 18:06
187112-013	Dibenz(a,h)anthracene	HPLC04	3	06/06/06 18:06
187112-013	Benzo(g,h,i)perylene	HPLC04	3	06/06/06 18:06
187112-013	Indeno(1,2,3-cd)pyrene	HPLC04	3	06/06/06 18:06
187112-013	1-Methylnaphthalene (UV)	HPLC04	1	06/06/06 18:06
187112-013	1-Methylnaphthalene (F)	HPLC04	3	06/06/06 18:06
QC342453	Naphthalene	HPLC04	1	06/06/06 17:02
QC342453	Acenaphthylene	HPLC04	1	06/06/06 17:02
QC342453	Acenaphthene	HPLC04	1	06/06/06 17:02
QC342453	Fluorene	HPLC04	1	06/06/06 17:02
QC342453	Phenanthrene	HPLC04	3	06/06/06 17:02
QC342453	Anthracene	HPLC04	3	06/06/06 17:02
QC342453	Fluoranthene	HPLC04	3	06/06/06 17:02
QC342453	Pyrene	HPLC04	3	06/06/06 17:02
QC342453	Benzo(a)anthracene	HPLC04	3	06/06/06 17:02
QC342453	Chrysene	HPLC04	3	06/06/06 17:02
QC342453	Benzo(b)fluoranthene	HPLC04	3	06/06/06 17:02
QC342453	Benzo(k)fluoranthene	HPLC04	3	06/06/06 17:02
QC342453	Benzo(a)pyrene	HPLC04	3	06/06/06 17:02
QC342453	Dibenz(a,h)anthracene	HPLC04	3	06/06/06 17:02
QC342453	Benzo(g,h,i)perylene	HPLC04	3	06/06/06 17:02
QC342453	Indeno(1,2,3-cd)pyrene	HPLC04	3	06/06/06 17:02

REPORTING SUMMARY FOR 187112 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC342453	1-Methylnaphthalene (UV)	HPLC04	1	06/06/06 17:02
QC342453	1-Methylnaphthalene (F)	HPLC04	3	06/06/06 17:02
QC342454	Naphthalene	HPLC04	1	06/06/06 18:37
QC342454	Fluorene	HPLC04	1	06/06/06 18:37
QC342454	Pyrene	HPLC04	3	06/06/06 18:37
QC342454	Benzo(a)pyrene	HPLC04	3	06/06/06 18:37
QC342454	1-Methylnaphthalene (UV)	HPLC04	1	06/06/06 18:37
QC342454	1-Methylnaphthalene (F)	HPLC04	3	06/06/06 18:37
QC342455	Naphthalene	HPLC04	1	06/06/06 19:09
QC342455	Fluorene	HPLC04	1	06/06/06 19:09
QC342455	Pyrene	HPLC04	3	06/06/06 19:09
QC342455	Benzo(a)pyrene	HPLC04	3	06/06/06 19:09
QC342455	1-Methylnaphthalene (UV)	HPLC04	1	06/06/06 19:09
QC342455	1-Methylnaphthalene (F)	HPLC04	3	06/06/06 19:09

Curtis & Tompkins Laboratories **Sample Preparation Summary** **06-JUN-2006 14:28**

Batch Number : 114043
Date Extracted: 01-JUN-2006
Extracted by : Matthew Josh McManus
Prep Method : 3520C

Analysis : 8310
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S3376O
Spike #2 ID : S3553C
Spike #3 ID :
SOP Version : 8310w_rv6

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
187112-001		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
187112-013		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
QC342453	BLANK		Water	1000	mL	2	0.002000	1		.1	0		8310		
QC342454	BS		Water	1000	mL	2	0.002000	1		.1	1		8310		
QC342455	BSD		Water	1000	mL	2	0.002000	1		.1	1		8310		

Prep Chemist: _____ Reviewed By: _____ Date: 6 JUN 06

Relinquished By: _____ Received By: _____ Date: 06JUN2006

Curtis & Tompkins, Ltd

8310 WATER PREP LOG

BK2190

LIMS Batch No: 114043
LIMS Analysis: 8310
Extracted by: MJM
Date Extracted: 6/1/06

Extraction Method:
☐ EPA 3510c sep. funnel
☑ EPA 3520c cont. L/L
☐

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Cleanup Method (if needed):
☐ EPA 3640a GPC
☐ EPA 3630c Silica Gel

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
187112-001 D	1060	6	2.0		
↓ -013 P	1060	↓	↓		possible glass contamination during vialing
MB Q C342453	1000	N/A			
BS ↓ 54	↓	↓			
BSD ↓ 55	↓	↓	↓		

KR 6 JUN 06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.1 mL of surrogate solution was added to all samples	S33760	6/1/06 MJM
1.0 mL of matrix spiking solution was added to all spikes	S3553C	↓
☑ Samples continuously extracted with about 450 mL of CH_2Cl_2	EM46110	↓
Extraction Start Time:	1215	↓
Extraction End Time:	0615	6/2/06 KR
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	N/A	6/6/06 KR
Extracts filtered through baked, CH2Cl2-rinsed powdered Na2SO4	EM45091549	↓
Exchanged 2x with Acetonitrile	EM45286	↓
Concentrated: ☑ to volumes as noted above ☐ to clean-up volume	✓	↓
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Silica Gel	N/A	↓
Extracts filtered with 0.45 um PTFE syringe filter	Whatman K774	↓

6/1/06
Extraction Chemist Date

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Contined from Page —
Continued on Page —

6 JUN 06
Reviewed by Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8310 Water 3520C
As of 07/05/06

Analyte	Units	HPLC02 1	HPLC02 2	HPLC02 3	HPLC04 1	HPLC04 2	HPLC04 3
Naphthalene	ug/L	0.16		0.069	0.097		0.10
Acenaphthylene	ug/L	0.37	0.29		0.24	0.16	
2-Methylnaphthalene	ug/L				0.072		0.10
Acenaphthene	ug/L	0.36		0.098	0.33		0.085
Fluorene	ug/L	0.051		0.054	0.028		0.017
Phenanthrene	ug/L	0.030		0.0086	0.0082		0.0078
Anthracene	ug/L	0.021		0.0077	0.024		0.023
Fluoranthene	ug/L	0.13		0.011	0.042		0.013
Pyrene	ug/L	0.066		0.0048	0.036		0.010
Benzo(a)anthracene	ug/L	0.044		0.0046	0.022		0.013
Chrysene	ug/L	0.036		0.0059	0.021		0.0096
Benzo(b)fluoranthene	ug/L	0.032		0.0081	0.015		0.013
Benzo(k)fluoranthene	ug/L	0.037		0.0044	0.013		0.0080
Benzo(a)pyrene	ug/L	0.055		0.0045	0.017		0.025
Dibenz(a,h)anthracene	ug/L	0.12		0.026	0.037		0.025
Benzo(g,h,i)perylene	ug/L	0.066		0.014	0.047		0.017
Indeno(1,2,3-cd)pyrene	ug/L	0.065		0.011	0.013		0.0096
1-Methylnaphthalene (UV)	ug/L	1.2	1.9		9.0	9.1	
1-Methylnaphthalene (F)	ug/L			0.72			9.8

METALS

Curtis & Tompkins, Ltd.

Dissolved Metals

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	1065MW9B	Batch#:	113957
Lab ID:	187112-002	Sampled:	05/25/06
Matrix:	Filtrate	Received:	05/26/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	06/07/06	EPA 6010B
Antimony	ND	1.0	06/06/06	EPA 6020
Arsenic	ND	5.0	06/07/06	EPA 6010B
Cadmium	ND	1.0	06/07/06	EPA 6020
Calcium	37,000	500	06/07/06	EPA 6010B
Chromium	38	10	06/07/06	EPA 6010B
Copper	ND	1.0	06/06/06	EPA 6020
Iron	ND	100	06/07/06	EPA 6010B
Lead	ND	3.0	06/07/06	EPA 6010B
Magnesium	50,000	500	06/07/06	EPA 6010B
Manganese	ND	10	06/07/06	EPA 6010B
Nickel	ND	20	06/07/06	EPA 6010B
Potassium	730	500	06/07/06	EPA 6010B
Sodium	55,000	500	06/07/06	EPA 6010B
Vanadium	13	10	06/07/06	EPA 6010B
Zinc	ND	20	06/07/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Metals

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF4GW103	Sampled:	05/25/06
Lab ID:	187112-003	Received:	05/26/06
Matrix:	Filtrate	Prepared:	05/31/06
Units:	ug/L	Analyzed:	06/07/06
Batch#:	113957		

Analyte	Result	RL	Diln Fac	Analysis
Aluminum	ND	100	1.000	EPA 6010B
Arsenic	ND	5.0	1.000	EPA 6010B
Cadmium	ND	1.0	1.000	EPA 6020
Calcium	150,000	2,000	10.00	EPA 6010B
Chromium	ND	10	1.000	EPA 6010B
Copper	2.0	1.0	1.000	EPA 6020
Iron	ND	100	1.000	EPA 6010B
Lead	ND	3.0	1.000	EPA 6010B
Magnesium	390,000	2,000	10.00	EPA 6010B
Manganese	37	10	1.000	EPA 6010B
Nickel	140	20	1.000	EPA 6010B
Potassium	1,900	500	1.000	EPA 6010B
Sodium	160,000	5,000	10.00	EPA 6010B
Zinc	ND	20	1.000	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Metals

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	LF4GW104	Sampled:	05/25/06
Lab ID:	187112-004	Received:	05/26/06
Matrix:	Filtrate	Prepared:	05/31/06
Units:	ug/L	Analyzed:	06/07/06
Batch#:	113957		

Analyte	Result	RL	Diln Fac	Analysis
Aluminum	ND	100	1.000	EPA 6010B
Arsenic	ND	5.0	1.000	EPA 6010B
Cadmium	ND	1.0	1.000	EPA 6020
Calcium	84,000	500	1.000	EPA 6010B
Chromium	ND	10	1.000	EPA 6010B
Copper	ND	1.0	1.000	EPA 6020
Iron	ND	100	1.000	EPA 6010B
Lead	ND	3.0	1.000	EPA 6010B
Magnesium	210,000	1,000	5.000	EPA 6010B
Manganese	48	10	1.000	EPA 6010B
Nickel	21	20	1.000	EPA 6010B
Potassium	1,700	500	1.000	EPA 6010B
Sodium	94,000	500	1.000	EPA 6010B
Zinc	ND	20	1.000	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Metals Analytical Report

Lab #:	187112	Project#:	2893.04.51
Client:	Treadwell & Rollo	Location:	Presidio
Field ID:	WT052506	Diln Fac:	1.000
Lab ID:	187112-005	Sampled:	05/25/06
Matrix:	Water	Received:	05/26/06
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Arsenic	7.7	5.0	113957	05/31/06	06/07/06	200.8	EPA 6010B
Cadmium	ND	1.0	113957	05/31/06	06/08/06	200.8	EPA 6020
Chromium	ND	10	113957	05/31/06	06/07/06	200.8	EPA 6010B
Copper	8.8	1.0	113957	05/31/06	06/07/06	200.8	EPA 6020
Lead	ND	3.0	113957	05/31/06	06/07/06	200.8	EPA 6010B
Mercury	ND	0.20	114151	06/06/06	06/06/06	METHOD	EPA 7470A
Nickel	ND	20	113957	05/31/06	06/07/06	200.8	EPA 6010B
Silver	ND	1.0	113957	05/31/06	06/07/06	200.8	EPA 6020
Zinc	49	20	113957	05/31/06	06/07/06	200.8	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	BHWGW01	Batch#:	113957
Lab ID:	187112-006	Sampled:	05/25/06
Matrix:	Filtrate	Received:	05/26/06
Units:	ug/L	Prepared:	05/31/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	ND	100	1.000	06/07/06	EPA 6010B
Antimony	ND	1.0	1.000	06/07/06	EPA 6020
Arsenic	ND	5.0	1.000	06/07/06	EPA 6010B
Barium	46	10	1.000	06/07/06	EPA 6010B
Beryllium	ND	2.0	1.000	06/07/06	EPA 6010B
Cadmium	ND	1.0	1.000	06/08/06	EPA 6020
Calcium	16,000	500	1.000	06/07/06	EPA 6010B
Chromium	110	10	1.000	06/07/06	EPA 6010B
Cobalt	ND	10	1.000	06/07/06	EPA 6010B
Copper	ND	1.0	1.000	06/07/06	EPA 6020
Iron	ND	100	1.000	06/07/06	EPA 6010B
Lead	ND	3.0	1.000	06/07/06	EPA 6010B
Magnesium	75,000	500	1.000	06/07/06	EPA 6010B
Manganese	ND	10	1.000	06/07/06	EPA 6010B
Nickel	ND	20	1.000	06/07/06	EPA 6010B
Potassium	ND	500	1.000	06/07/06	EPA 6010B
Selenium	ND	5.0	1.000	06/07/06	EPA 6010B
Silver	ND	1.0	1.000	06/07/06	EPA 6020
Sodium	230,000	2,500	5.000	06/07/06	EPA 6010B
Thallium	ND	1.0	1.000	06/07/06	EPA 6020
Vanadium	ND	10	1.000	06/07/06	EPA 6010B
Zinc	ND	20	1.000	06/07/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	DUP0525063A	Batch#:	113957
Lab ID:	187112-007	Sampled:	05/25/06
Matrix:	Filtrate	Received:	05/26/06
Units:	ug/L	Prepared:	05/31/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	ND	100	1.000	06/07/06	EPA 6010B
Antimony	ND	1.0	1.000	06/07/06	EPA 6020
Arsenic	ND	5.0	1.000	06/07/06	EPA 6010B
Barium	49	10	1.000	06/07/06	EPA 6010B
Beryllium	ND	2.0	1.000	06/07/06	EPA 6010B
Cadmium	ND	1.0	1.000	06/08/06	EPA 6020
Calcium	17,000	500	1.000	06/07/06	EPA 6010B
Chromium	120	10	1.000	06/07/06	EPA 6010B
Cobalt	ND	10	1.000	06/07/06	EPA 6010B
Copper	ND	1.0	1.000	06/07/06	EPA 6020
Iron	ND	100	1.000	06/07/06	EPA 6010B
Lead	ND	3.0	1.000	06/07/06	EPA 6010B
Magnesium	79,000	500	1.000	06/07/06	EPA 6010B
Manganese	ND	10	1.000	06/07/06	EPA 6010B
Nickel	ND	20	1.000	06/07/06	EPA 6010B
Potassium	ND	500	1.000	06/07/06	EPA 6010B
Selenium	ND	5.0	1.000	06/07/06	EPA 6010B
Silver	ND	1.0	1.000	06/07/06	EPA 6020
Sodium	240,000	2,500	5.000	06/07/06	EPA 6010B
Thallium	ND	1.0	1.000	06/07/06	EPA 6020
Vanadium	ND	10	1.000	06/07/06	EPA 6010B
Zinc	ND	20	1.000	06/07/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	HWGW100	Batch#:	113957
Lab ID:	187112-008	Sampled:	05/25/06
Matrix:	Filtrate	Received:	05/26/06
Units:	ug/L	Prepared:	05/31/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	ND	100	1.000	06/07/06	EPA 6010B
Antimony	ND	1.0	1.000	06/07/06	EPA 6020
Arsenic	7.8	5.0	1.000	06/07/06	EPA 6010B
Barium	ND	10	1.000	06/07/06	EPA 6010B
Beryllium	ND	2.0	1.000	06/07/06	EPA 6010B
Cadmium	ND	1.0	1.000	06/08/06	EPA 6020
Calcium	15,000	500	1.000	06/07/06	EPA 6010B
Chromium	24	10	1.000	06/07/06	EPA 6010B
Cobalt	ND	10	1.000	06/07/06	EPA 6010B
Copper	1.4	1.0	1.000	06/07/06	EPA 6020
Iron	ND	100	1.000	06/07/06	EPA 6010B
Lead	ND	3.0	1.000	06/07/06	EPA 6010B
Magnesium	49,000	500	1.000	06/07/06	EPA 6010B
Manganese	ND	10	1.000	06/07/06	EPA 6010B
Nickel	ND	20	1.000	06/07/06	EPA 6010B
Potassium	2,900	500	1.000	06/07/06	EPA 6010B
Selenium	ND	5.0	1.000	06/07/06	EPA 6010B
Silver	ND	1.0	1.000	06/07/06	EPA 6020
Sodium	220,000	2,500	5.000	06/07/06	EPA 6010B
Thallium	ND	1.0	1.000	06/07/06	EPA 6020
Vanadium	ND	10	1.000	06/07/06	EPA 6010B
Zinc	ND	20	1.000	06/07/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	HWGW101	Batch#:	113957
Lab ID:	187112-009	Sampled:	05/25/06
Matrix:	Filtrate	Received:	05/26/06
Units:	ug/L	Prepared:	05/31/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	ND	100	1.000	06/07/06	EPA 6010B
Antimony	ND	1.0	1.000	06/07/06	EPA 6020
Arsenic	ND	5.0	1.000	06/07/06	EPA 6010B
Barium	ND	10	1.000	06/07/06	EPA 6010B
Beryllium	ND	2.0	1.000	06/07/06	EPA 6010B
Cadmium	ND	1.0	1.000	06/08/06	EPA 6020
Calcium	16,000	500	1.000	06/07/06	EPA 6010B
Chromium	23	10	1.000	06/07/06	EPA 6010B
Cobalt	ND	10	1.000	06/07/06	EPA 6010B
Copper	ND	1.0	1.000	06/07/06	EPA 6020
Iron	ND	100	1.000	06/07/06	EPA 6010B
Lead	ND	3.0	1.000	06/07/06	EPA 6010B
Magnesium	26,000	500	1.000	06/07/06	EPA 6010B
Manganese	ND	10	1.000	06/07/06	EPA 6010B
Nickel	ND	20	1.000	06/07/06	EPA 6010B
Potassium	1,600	500	1.000	06/07/06	EPA 6010B
Selenium	ND	5.0	1.000	06/07/06	EPA 6010B
Silver	ND	1.0	1.000	06/07/06	EPA 6020
Sodium	260,000	2,500	5.000	06/07/06	EPA 6010B
Thallium	ND	1.0	1.000	06/07/06	EPA 6020
Vanadium	ND	10	1.000	06/07/06	EPA 6010B
Zinc	ND	20	1.000	06/07/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	BHWGW04	Batch#:	113957
Lab ID:	187112-010	Sampled:	05/25/06
Matrix:	Filtrate	Received:	05/26/06
Units:	ug/L	Prepared:	05/31/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	ND	100	1.000	06/07/06	EPA 6010B
Antimony	ND	1.0	1.000	06/07/06	EPA 6020
Arsenic	ND	5.0	1.000	06/07/06	EPA 6010B
Barium	37	10	1.000	06/07/06	EPA 6010B
Beryllium	ND	2.0	1.000	06/07/06	EPA 6010B
Cadmium	ND	1.0	1.000	06/08/06	EPA 6020
Calcium	15,000	500	1.000	06/07/06	EPA 6010B
Chromium	ND	10	1.000	06/07/06	EPA 6010B
Cobalt	ND	10	1.000	06/07/06	EPA 6010B
Copper	ND	1.0	1.000	06/07/06	EPA 6020
Iron	ND	100	1.000	06/07/06	EPA 6010B
Lead	ND	3.0	1.000	06/07/06	EPA 6010B
Magnesium	39,000	500	1.000	06/07/06	EPA 6010B
Manganese	ND	10	1.000	06/07/06	EPA 6010B
Nickel	ND	20	1.000	06/07/06	EPA 6010B
Potassium	ND	500	1.000	06/07/06	EPA 6010B
Selenium	ND	5.0	1.000	06/07/06	EPA 6010B
Silver	ND	1.0	1.000	06/07/06	EPA 6020
Sodium	140,000	2,500	5.000	06/07/06	EPA 6010B
Thallium	ND	1.0	1.000	06/07/06	EPA 6020
Vanadium	ND	10	1.000	06/07/06	EPA 6010B
Zinc	ND	20	1.000	06/07/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	BHWGW04RB05	Batch#:	113957
Lab ID:	187112-011	Sampled:	05/25/06
Matrix:	Filtrate	Received:	05/26/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	06/07/06	EPA 6010B
Antimony	ND	1.0	06/07/06	EPA 6020
Arsenic	ND	5.0	06/07/06	EPA 6010B
Barium	ND	10	06/07/06	EPA 6010B
Beryllium	ND	2.0	06/07/06	EPA 6010B
Cadmium	ND	1.0	06/08/06	EPA 6020
Calcium	ND	500	06/07/06	EPA 6010B
Chromium	ND	10	06/07/06	EPA 6010B
Cobalt	ND	10	06/07/06	EPA 6010B
Copper	ND	1.0	06/07/06	EPA 6020
Iron	ND	100	06/07/06	EPA 6010B
Lead	ND	3.0	06/07/06	EPA 6010B
Magnesium	ND	500	06/07/06	EPA 6010B
Manganese	ND	10	06/07/06	EPA 6010B
Nickel	ND	20	06/07/06	EPA 6010B
Potassium	ND	500	06/07/06	EPA 6010B
Selenium	ND	5.0	06/07/06	EPA 6010B
Silver	ND	1.0	06/07/06	EPA 6020
Sodium	ND	500	06/07/06	EPA 6010B
Thallium	ND	1.0	06/07/06	EPA 6020
Vanadium	ND	10	06/07/06	EPA 6010B
Zinc	ND	20	06/07/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	BHWGW05	Batch#:	113957
Lab ID:	187112-012	Sampled:	05/25/06
Matrix:	Filtrate	Received:	05/26/06
Units:	ug/L	Prepared:	05/31/06

Analyte	Result	RL	Diln Fac	Analyzed	Analysis
Aluminum	ND	100	1.000	06/07/06	EPA 6010B
Antimony	ND	1.0	1.000	06/07/06	EPA 6020
Arsenic	ND	5.0	1.000	06/07/06	EPA 6010B
Barium	90	10	1.000	06/07/06	EPA 6010B
Beryllium	ND	2.0	1.000	06/07/06	EPA 6010B
Cadmium	ND	1.0	1.000	06/08/06	EPA 6020
Calcium	68,000	500	1.000	06/07/06	EPA 6010B
Chromium	ND	10	1.000	06/07/06	EPA 6010B
Cobalt	ND	10	1.000	06/07/06	EPA 6010B
Copper	ND	1.0	1.000	06/07/06	EPA 6020
Iron	ND	100	1.000	06/07/06	EPA 6010B
Lead	ND	3.0	1.000	06/07/06	EPA 6010B
Magnesium	75,000	500	1.000	06/07/06	EPA 6010B
Manganese	560	10	1.000	06/07/06	EPA 6010B
Nickel	31	20	1.000	06/07/06	EPA 6010B
Potassium	3,700	500	1.000	06/07/06	EPA 6010B
Selenium	ND	5.0	1.000	06/07/06	EPA 6010B
Silver	ND	1.0	1.000	06/07/06	EPA 6020
Sodium	230,000	2,500	5.000	06/07/06	EPA 6010B
Thallium	ND	1.0	1.000	06/07/06	EPA 6020
Vanadium	ND	10	1.000	06/07/06	EPA 6010B
Zinc	ND	20	1.000	06/07/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	DW052506A	Batch#:	113957
Lab ID:	187112-013	Sampled:	05/25/06
Matrix:	Water	Received:	05/26/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	06/07/06	EPA 6010B
Antimony	ND	1.0	06/07/06	EPA 6020
Arsenic	ND	5.0	06/07/06	EPA 6010B
Barium	ND	10	06/07/06	EPA 6010B
Beryllium	ND	2.0	06/07/06	EPA 6010B
Cadmium	ND	1.0	06/08/06	EPA 6020
Calcium	3,600	500	06/07/06	EPA 6010B
Chromium	ND	10	06/07/06	EPA 6010B
Cobalt	ND	10	06/07/06	EPA 6010B
Copper	ND	1.0	06/07/06	EPA 6020
Iron	ND	100	06/07/06	EPA 6010B
Lead	ND	3.0	06/07/06	EPA 6010B
Magnesium	910	500	06/07/06	EPA 6010B
Manganese	ND	10	06/07/06	EPA 6010B
Nickel	ND	20	06/07/06	EPA 6010B
Potassium	ND	500	06/07/06	EPA 6010B
Selenium	ND	5.0	06/07/06	EPA 6010B
Silver	ND	1.0	06/07/06	EPA 6020
Sodium	ND	500	06/07/06	EPA 6010B
Thallium	ND	1.0	06/07/06	EPA 6020
Vanadium	ND	10	06/07/06	EPA 6010B
Zinc	ND	20	06/07/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Metals Analytical Report

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	114238
Field ID:	DW052506A	Sampled:	05/25/06
Lab ID:	187112-013	Received:	05/26/06
Matrix:	Water	Prepared:	06/08/06
Units:	ug/L	Analyzed:	06/08/06
Diln Fac:	1.000		

Result	RL
ND	0.20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC342089	Batch#:	113957
Matrix:	Filtrate	Prepared:	05/31/06
Units:	ug/L		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	06/07/06	EPA 6010B
Antimony	ND	1.0	06/06/06	EPA 6020
Arsenic	ND	5.0	06/07/06	EPA 6010B
Barium	ND	10	06/07/06	EPA 6010B
Beryllium	ND	2.0	06/07/06	EPA 6010B
Cadmium	ND	1.0	06/07/06	EPA 6020
Calcium	ND	500	06/07/06	EPA 6010B
Chromium	ND	10	06/07/06	EPA 6010B
Cobalt	ND	10	06/07/06	EPA 6010B
Copper	ND	1.0	06/06/06	EPA 6020
Iron	ND	100	06/07/06	EPA 6010B
Lead	ND	3.0	06/07/06	EPA 6010B
Magnesium	ND	500	06/07/06	EPA 6010B
Manganese	ND	10	06/07/06	EPA 6010B
Nickel	ND	20	06/07/06	EPA 6010B
Potassium	ND	500	06/07/06	EPA 6010B
Selenium	ND	5.0	06/07/06	EPA 6010B
Silver	ND	1.0	06/06/06	EPA 6020
Sodium	ND	500	06/07/06	EPA 6010B
Thallium	ND	1.0	06/06/06	EPA 6020
Vanadium	ND	10	06/07/06	EPA 6010B
Zinc	ND	20	06/07/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Metals Analytical Report

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	114238
Lab ID:	QC343229	Prepared:	06/08/06
Matrix:	Water	Analyzed:	06/08/06
Units:	ug/L		

Result	RL
ND	0.20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Metals Analytical Report

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	114151
Lab ID:	QC342891	Prepared:	06/06/06
Matrix:	Filtrate	Analyzed:	06/06/06
Units:	ug/L		

Result	RL
ND	0.20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Matrix:	Filtrate	Batch#:	113957
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Type: BS Lab ID: QC342090

Analyte	Spiked	Result	%REC	Limits	Analyzed	Analysis
Aluminum	100.0	88.69	89	80-120	06/07/06	EPA 6010B
Antimony	100.0	91.43	91	80-120	06/06/06	EPA 6020
Arsenic	100.0	100.2	100	80-120	06/07/06	EPA 6010B
Barium	100.0	100.3	100	80-120	06/07/06	EPA 6010B
Beryllium	100.0	101.5	102	80-120	06/07/06	EPA 6010B
Cadmium	100.0	92.76	93	80-120	06/07/06	EPA 6020
Calcium	10,000	9,858	99	80-120	06/07/06	EPA 6010B
Chromium	100.0	101.1	101	80-120	06/07/06	EPA 6010B
Cobalt	100.0	98.78	99	80-120	06/07/06	EPA 6010B
Copper	100.0	98.24	98	80-120	06/06/06	EPA 6020
Iron	10,000	9,678	97	80-120	06/07/06	EPA 6010B
Lead	100.0	99.18	99	80-120	06/07/06	EPA 6010B
Magnesium	10,000	9,623	96	80-120	06/07/06	EPA 6010B
Manganese	100.0	101.7	102	80-120	06/07/06	EPA 6010B
Nickel	100.0	100.3	100	80-120	06/07/06	EPA 6010B
Potassium	10,000	9,739	97	80-120	06/07/06	EPA 6010B
Selenium	100.0	99.12	99	80-120	06/07/06	EPA 6010B
Silver	100.0	83.68	84	80-120	06/06/06	EPA 6020
Sodium	10,000	10,030	100	80-120	06/07/06	EPA 6010B
Thallium	100.0	82.81	83	80-120	06/06/06	EPA 6020
Vanadium	100.0	100.3	100	80-120	06/07/06	EPA 6010B
Zinc	100.0	102.6	103	80-120	06/07/06	EPA 6010B

Type: BSD Lab ID: QC342091

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed	Analysis
Aluminum	100.0	81.50	81	80-120	8	20	06/07/06	EPA 6010B
Antimony	100.0	90.08	90	80-120	1	20	06/06/06	EPA 6020
Arsenic	100.0	102.5	102	80-120	2	20	06/07/06	EPA 6010B
Barium	100.0	100.1	100	80-120	0	20	06/07/06	EPA 6010B
Beryllium	100.0	100.9	101	80-120	1	20	06/07/06	EPA 6010B
Cadmium	100.0	91.79	92	80-120	1	20	06/07/06	EPA 6020
Calcium	10,000	10,110	101	80-120	3	20	06/07/06	EPA 6010B
Chromium	100.0	100.6	101	80-120	1	20	06/07/06	EPA 6010B
Cobalt	100.0	99.21	99	80-120	0	20	06/07/06	EPA 6010B
Copper	100.0	97.74	98	80-120	1	20	06/06/06	EPA 6020
Iron	10,000	9,691	97	80-120	0	20	06/07/06	EPA 6010B
Lead	100.0	99.61	100	80-120	0	20	06/07/06	EPA 6010B
Magnesium	10,000	9,794	98	80-120	2	20	06/07/06	EPA 6010B
Manganese	100.0	101.3	101	80-120	0	20	06/07/06	EPA 6010B
Nickel	100.0	100.6	101	80-120	0	20	06/07/06	EPA 6010B
Potassium	10,000	10,860	109	80-120	11	20	06/07/06	EPA 6010B
Selenium	100.0	101.2	101	80-120	2	20	06/07/06	EPA 6010B
Silver	100.0	82.56	83	80-120	1	20	06/06/06	EPA 6020
Sodium	10,000	11,040	110	80-120	10	20	06/07/06	EPA 6010B
Thallium	100.0	81.79	82	80-120	1	20	06/06/06	EPA 6020
Vanadium	100.0	99.21	99	80-120	1	20	06/07/06	EPA 6010B
Zinc	100.0	103.8	104	80-120	1	20	06/07/06	EPA 6010B

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Metals Analytical Report

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	114151
Matrix:	Filtrate	Prepared:	06/06/06
Units:	ug/L	Analyzed:	06/06/06
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC342892	5.000	5.330	107	80-120		
BSD	QC342893	5.000	5.400	108	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Metals Analytical Report

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	114238
Matrix:	Water	Prepared:	06/08/06
Units:	ug/L	Analyzed:	06/08/06
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC343230	5.000	5.180	104	80-120		
BSD	QC343231	5.000	5.080	102	80-120	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	1065MW9B	Batch#:	113957
MSS Lab ID:	187112-002	Sampled:	05/25/06
Matrix:	Filtrate	Received:	05/26/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Type: MS Lab ID: QC342092

Analyte	MSS Result	Spiked	Result	%REC	Limits	Analyzed	Analysis
Aluminum	<42.49	100.0	62.35	62 *	75-125	06/07/06	EPA 6010B
Antimony	0.07985	100.0	91.68	92	75-125	06/06/06	EPA 6020
Arsenic	2.737	100.0	98.65	96	75-125	06/07/06	EPA 6010B
Barium	39.79	100.0	138.8	99	75-125	06/07/06	EPA 6010B
Beryllium	<0.2089	100.0	102.4	102	75-125	06/07/06	EPA 6010B
Cadmium	0.1496	100.0	84.37	84	75-125	06/07/06	EPA 6020
Calcium	36,600	10,000	45,060	85	75-125	06/07/06	EPA 6010B
Chromium	37.88	100.0	138.2	100	75-125	06/07/06	EPA 6010B
Cobalt	<0.4605	100.0	96.38	96	75-125	06/07/06	EPA 6010B
Copper	0.3338	100.0	91.08	91	75-125	06/06/06	EPA 6020
Iron	<17.23	10,000	9,440	94	75-125	06/07/06	EPA 6010B
Lead	<0.5698	100.0	95.97	96	75-125	06/07/06	EPA 6010B
Magnesium	49,790	10,000	57,170	74 NM	75-125	06/07/06	EPA 6010B
Manganese	<0.5991	100.0	101.7	102	75-125	06/07/06	EPA 6010B
Nickel	1.802	100.0	101.1	99	75-125	06/07/06	EPA 6010B
Potassium	726.7	10,000	10,700	100	75-125	06/07/06	EPA 6010B
Selenium	<1.575	100.0	97.81	98	75-125	06/07/06	EPA 6010B
Silver	<0.04084	100.0	79.25	79	75-125	06/06/06	EPA 6020
Sodium	54,880	10,000	63,560	87 NM	75-125	06/07/06	EPA 6010B
Thallium	0.4686	100.0	77.61	77	75-125	06/06/06	EPA 6020
Vanadium	13.33	100.0	114.1	101	75-125	06/07/06	EPA 6010B
Zinc	<1.533	100.0	101.9	102	75-125	06/07/06	EPA 6010B

*= Value outside of QC limits; see narrative
NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	1065MW9B	Batch#:	113957
MSS Lab ID:	187112-002	Sampled:	05/25/06
Matrix:	Filtrate	Received:	05/26/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Type: MSD Lab ID: QC342093

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed	Analysis
Aluminum	100.0	48.35	48 *	75-125	25 *	20	06/07/06	EPA 6010B
Antimony	100.0	95.12	95	75-125	4	20	06/06/06	EPA 6020
Arsenic	100.0	108.5	106	75-125	10	20	06/07/06	EPA 6010B
Barium	100.0	141.5	102	75-125	2	20	06/07/06	EPA 6010B
Beryllium	100.0	103.7	104	75-125	1	20	06/07/06	EPA 6010B
Cadmium	100.0	85.81	86	75-125	2	20	06/07/06	EPA 6020
Calcium	10,000	46,610	100	75-125	3	20	06/07/06	EPA 6010B
Chromium	100.0	143.6	106	75-125	4	20	06/07/06	EPA 6010B
Cobalt	100.0	99.77	100	75-125	3	20	06/07/06	EPA 6010B
Copper	100.0	92.64	92	75-125	2	20	06/06/06	EPA 6020
Iron	10,000	9,602	96	75-125	2	20	06/07/06	EPA 6010B
Lead	100.0	96.52	97	75-125	1	20	06/07/06	EPA 6010B
Magnesium	10,000	59,090	93 NM	75-125	3	20	06/07/06	EPA 6010B
Manganese	100.0	102.6	103	75-125	1	20	06/07/06	EPA 6010B
Nickel	100.0	102.9	101	75-125	2	20	06/07/06	EPA 6010B
Potassium	10,000	10,940	102	75-125	2	20	06/07/06	EPA 6010B
Selenium	100.0	96.38	96	75-125	1	20	06/07/06	EPA 6010B
Silver	100.0	81.58	82	75-125	3	20	06/06/06	EPA 6020
Sodium	10,000	66,280	114 NM	75-125	4	20	06/07/06	EPA 6010B
Thallium	100.0	81.13	81	75-125	4	20	06/06/06	EPA 6020
Vanadium	100.0	116.7	103	75-125	2	20	06/07/06	EPA 6010B
Zinc	100.0	102.8	103	75-125	1	20	06/07/06	EPA 6010B

*= Value outside of QC limits; see narrative
NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Metals Analytical Report

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	114151
Field ID:	ZZZZZZZZZZ	Sampled:	05/23/06
MSS Lab ID:	187061-013	Received:	05/24/06
Matrix:	Filtrate	Prepared:	06/06/06
Units:	ug/L	Analyzed:	06/06/06
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC342894	<0.02083	5.000	5.270	105	75-125		
MSD	QC342895		5.000	5.310	106	75-125	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Metals Analytical Report

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	114238
Field ID:	ZZZZZZZZZZ	Sampled:	05/25/06
MSS Lab ID:	187119-010	Received:	05/26/06
Matrix:	Filtrate	Prepared:	06/08/06
Units:	ug/L	Analyzed:	06/08/06
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC343232	<0.02083	5.000	5.140	103	75-125		
MSD	QC343233		5.000	5.100	102	75-125	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	1065MW9B	Units:	ug/L
Type:	Serial Dilution	Diln Fac:	5.000
MSS Lab ID:	187112-002	Batch#:	113957
Lab ID:	QC342094	Sampled:	05/25/06
Matrix:	Filtrate	Received:	05/26/06

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Analyzed	Analysis
Aluminum	ND	100.0	ND	500.0	NC	10	06/07/06	EPA 6010B
Antimony	ND	1.000	ND	1.250	NC	10	06/06/06	EPA 6020
Arsenic	ND	5.000	7.052 J	25.00	NC	10	06/07/06	EPA 6010B
Barium	39.79	10.00	39.88	25.00	0	10	06/07/06	EPA 6010B
Beryllium	ND	2.000	ND	10.00	NC	10	06/07/06	EPA 6010B
Cadmium	ND	1.000	ND	1.250	NC	10	06/07/06	EPA 6020
Calcium	36,600	500.0	38,150	1,000	4	10	06/07/06	EPA 6010B
Chromium	37.88	10.00	38.43	25.00	1	10	06/07/06	EPA 6010B
Cobalt	ND	10.00	ND	25.00	NC	10	06/07/06	EPA 6010B
Copper	ND	1.000	ND	2.500	NC	10	06/06/06	EPA 6020
Iron	ND	100.0	ND	500.0	NC	10	06/07/06	EPA 6010B
Lead	ND	3.000	ND	15.00	NC	10	06/07/06	EPA 6010B
Magnesium	49,790	500.0	51,130	1,000	3	10	06/07/06	EPA 6010B
Manganese	ND	10.00	ND	25.00	NC	10	06/07/06	EPA 6010B
Nickel	ND	20.00	ND	25.00	NC	10	06/07/06	EPA 6010B
Potassium	726.7	500.0	ND	2,500	NC	10	06/07/06	EPA 6010B
Selenium	ND	5.000	ND	25.00	NC	10	06/07/06	EPA 6010B
Silver	ND	1.000	ND	1.250	NC	10	06/06/06	EPA 6020
Sodium	54,880	500.0	56,770	2,500	3	10	06/07/06	EPA 6010B
Thallium	ND	1.000	0.8661 J	2.500	NC	10	06/06/06	EPA 6020
Vanadium	13.33	10.00	14.40 J	25.00	NC	10	06/07/06	EPA 6010B
Zinc	ND	20.00	ND	100.0	NC	10	06/07/06	EPA 6010B

J= Estimated value
NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET05
Seqnum: 56226997088
File : f0615088
IDF : 1.0
Lab ID: 187112-002
Matrix: Filtrate
Batch : 113957
Time : 06-JUN-2006 23:38
Cal : 56226997001
Units : ug/L

Type : PDS
Inst : MET05
Seqnum: 56226997092
File : f0615092
IDF : 1.0
Lab ID: QC342095
Matrix: Filtrate
Batch : 113957
Time : 07-JUN-2006 00:00
Cal : 56226997001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S3085 (100X), S3310

Analyte	MSS	Spiked	PDS	%Rec	Limits	Flags
Aluminum	1.720	100.0	101.8	100	75-125	<c+ **b***
Antimony	0.07985	100.0	92.86	93	75-125	
Arsenic	1.213	100.0	88.92	88	75-125	
Barium	35.24	100.0	126.7	91	75-125	
Beryllium	ND	100.0	97.45	97	75-125	
Chromium	34.30	100.0	124.9	91	75-125	
Cobalt	0.08024	100.0	88.66	89	75-125	
Copper	0.3338	100.0	92.38	92	75-125	
Iron	73.03	10000	9681	96	75-125	
Lead	ND	100.0	93.36	93	75-125	
Manganese	0.5746	100.0	87.26	87	75-125	
Molybdenum	ND	100.0	84.73	85	75-125	
Nickel	2.835	100.0	93.06	90	75-125	
Potassium	645.6	10000	9832	92	75-125	
Selenium	0.3919	100.0	79.82	79	75-125	
Silver	ND	100.0	81.00	81	75-125	
Thallium	0.4686	100.0	80.62	80	75-125	
Vanadium	11.22	100.0	98.82	88	75-125	
Zinc	2.446	100.0	88.72	86	75-125	

ISTD (ICALBLK f0615003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	409002	389117	-4.86
Scandium	289167	277526	-4.03
Germanium	59725	53871	-9.80
Indium	466498	354305	-24.05
Bismuth	483064	345236	-28.53

MISSING READINGS: **CD CA MG NA**

+=high bias <=opening b=noncompliant c=CCV

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : PDS
Inst : MET05
Seqnum: 56228694036
File : f0719036
IDF : 1.0
Lab ID: QC342095
Matrix: Filtrate
Batch : 113957
Time : 07-JUN-2006 22:50
Cal : 56228694001
MSS : 187112-002
Units : ug/L

PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S3085 (100X)

Analyte	MSS Seqnum	Result	Spiked	PDS	%Rec	Limits	Flags
Aluminum	56226997088	1.720	100.0	118.0	116	75-125	<c+ >c+ **b***
Antimony	56226997088	0.07985	100.0	101.1	101	75-125	
Arsenic	56226997088	1.213	100.0	96.89	96	75-125	
Barium	56228694027	37.00	100.0	134.7	98	75-125	
Beryllium	56228694027	0.05798	100.0	108.8	109	75-125	<c+ >c+ **b***
Cadmium	56228694027	0.1496	100.0	84.40	84	75-125	
Chromium	56226997088	34.30	100.0	122.1	88	75-125	>c- **b***
Cobalt	56228694027	0.1370	100.0	88.51	88	75-125	
Copper	56226997088	0.3338	100.0	95.70	95	75-125	
Iron	56226997088	73.03	10000	9843	98	75-125	
Lead	56226997088	ND	100.0	100.1	100	75-125	
Manganese	56226997088	0.5746	100.0	88.95	88	75-125	
Molybdenum	56228694027	0.3691	100.0	92.90	93	75-125	
Nickel	56226997088	2.835	100.0	96.94	94	75-125	
Potassium	56226997088	645.6	10000	10960	103	75-125	<c+ >c+ **b***
Selenium	56228694027	ND	100.0	84.40	84	75-125	
Silver	56228694027	ND	100.0	86.68	87	75-125	
Thallium	56228694027	0.5459	100.0	87.80	87	75-125	
Vanadium	56226997088	11.22	100.0	98.45	87	75-125	
Zinc	56226997088	2.446	100.0	91.68	89	75-125	

ISTD (ICALBLK f0719003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	566835	522618	-7.80
Scandium	419934	402810	-4.08
Germanium	79792	79873	0.10
Indium	561698	456002	-18.82
Bismuth	398573	298598	-25.08

MISSING READINGS: **CA MG NA**

+=high bias -=low bias <=opening >=closing b=noncompliant c=CCV

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : MSS
Inst : MET08
Seqnum: 86228386019
File : 060706ar.txt
IDF : 1.0
Lab ID: 187112-002
Matrix: Filtrate
Batch : 113957
Time : 07-JUN-2006 15:44
Cal : 86228386001
Units : ug/L

Type : PDS
Inst : MET08
Seqnum: 86228386025
File : 060706ar.txt
IDF : 1.0
Lab ID: QC342095
Matrix: Filtrate
Batch : 113957
Time : 07-JUN-2006 16:01
Cal : 86228386001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S1792 (100X), S1793 (100X)

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Aluminum	ND	R	2000	1970	R	99	75-125	
Antimony	ND	A	500.0	535.1	A	107	75-125	
Arsenic	2.737	A	100.0	112.3	A	110	75-125	
Barium	39.79	A	2000	2168	A	106	75-125	
Beryllium	ND	A	50.00	54.44	A	109	75-125	
Cadmium	ND	A	50.00	55.11	A	110	75-125	
Calcium	36600	R	20000	54830	R	91	75-125	
Chromium	37.88	A	200.0	253.5	A	108	75-125	
Cobalt	ND	A	500.0	516.6	A	103	75-125	
Copper	0.7775	A	250.0	267.7	A	107	75-125	
Iron	ND	R	1000	1006	R	101	75-125	
Lead	ND	A	100.0	99.04	A	99	75-125	
Magnesium	49790	R	20000	66870	R	85	75-125	
Manganese	ND	A	50.00	54.21	A	108	75-125	
Molybdenum	1.074	A	400.0	433.7	A	108	75-125	
Nickel	1.802	A	500.0	527.4	A	105	75-125	
Potassium	726.7	R	10000	11330	R	106	75-125	
Selenium	ND	A	100.0	107.5	A	107	75-125	
Silver	ND	A	50.00	54.39	A	109	75-125	
Sodium	54880	R	20000	74020	R	96	75-125	
Thallium	2.351	A	100.0	107.2	A	105	75-125	
Vanadium	13.33	A	500.0	544.4	A	106	75-125	
Zinc	ND	A	500.0	535.2	A	107	75-125	
Boron	97.96	A	1000	1199	A	110	75-125	
Tin	ND	A	1000	1082	A	108	75-125	
Titanium	ND	A	1000	1106	A	111	75-125	

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	1626250	1620915	-0.33

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

nst : MET05
alnum : 56226997001
nits : ug/L

Date : 06-JUN-2006 15:29
X Axis : R

Reviewer: ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	f0615004	56226997004	CS1	06-JUN-2006 15:34	S3608
L2	f0615005	56226997005	CS2	06-JUN-2006 15:40	S3609
L3	f0615006	56226997006	CS3	06-JUN-2006 15:45	S3610
L4	f0615007	56226997007	CS4	06-JUN-2006 15:51	S3611
L5	f0615008	56226997008	CS5	06-JUN-2006 15:57	S3605
L6	f0615009	56226997009	CS6	06-JUN-2006 16:02	S3606

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
luminum		7.6362	3.5258	0.7139	0.4706	0.4560	BLNK	-8.4511	2.29061		2.5605	1.000	0.995	
ntimony	0.3053	0.2683	0.2543	0.2443	0.2427	0.2409	BLNK	-0.0380	4.14639		0.2593	1.000	0.995	
rsenic		0.4953	0.4649	0.4141	0.3941	0.3924	BLNK	-0.0822	2.54731		0.4322	1.000	0.995	
arium	0.1311	0.1046	0.1004	0.0905	0.0900	0.0897	BLNK	-0.0437	11.1455		0.1011	1.000	0.995	
eryllium	0.1502	0.1315	0.1226	0.1303	0.1272	0.1255	BLNK	-0.0184	7.94666		0.1312	1.000	0.995	
admium	0.7818	0.5995	0.5604	0.4817	0.4583	0.4424	BLNK	-0.1925	2.24641		0.5540	1.000	0.995	
alcium		0.0284	0.0216	0.0170	0.0177	0.0173	BLNK	-32.804	57.5858		0.0204	1.000	0.995	
hromium		6.4876	4.6058	3.0994	2.8492	2.9254	BLNK	-0.6865	0.34504		3.9935	1.000	0.995	
obalt	4.0164	3.3874	3.3993	3.1802	3.0136	3.1469	BLNK	-0.0385	0.32055		3.3573	1.000	0.995	
opper		1.1746	0.9956	0.7707	0.7089	0.7037	BLNK	-0.2378	1.42069		0.8707	1.000	0.995	
ron		0.1359	0.1065	0.0837	0.0845	0.0827	BLNK	-32.726	12.0620		0.0987	1.000	0.995	
ead	1.0682	0.9549	0.9379	0.8820	0.8773	0.8826	BLNK	-0.0356	1.13461		0.9338	1.000	0.995	
agnesium		0.0856	0.0716	0.0613	0.0612	0.0599	BLNK	-24.477	16.6440		0.0679	1.000	0.995	
anganese	6.3900	5.4228	4.8005	4.2146	3.9967	4.2762	BLNK	-0.1229	0.23713		4.8501	0.999	0.995	
olybdenum		1.0223	0.8891	0.8297	0.8132	0.8076	BLNK	-0.1624	1.23767		0.8724	1.000	0.995	
ickel	1.0833	0.9759	0.7781	0.6877	0.6377	0.6323	BLNK	-0.1793	1.58026		0.7992	1.000	0.995	
otassium		1.2794	0.8968	0.5953	0.5223	0.5159	BLNK	-74.277	1.94178		0.7619	1.000	0.995	
elenium		0.0640	0.0482	0.0357	0.0309	0.0298	BLNK	-0.2473	33.3214		0.0417	1.000	0.995	
ilver	2.4841	2.3724	2.1467	2.1738	2.0587	2.0161	BLNK	-0.0225	0.49392		2.2086	1.000	0.995	
odium		2.2045	1.3939	0.7297	0.6382	0.6288	BLNK	-133.98	1.59814		1.1190	1.000	0.995	
hallium		0.7260	0.6853	0.6088	0.6375	0.6874	BLNK	-0.0678	1.47708		0.6690	0.999	0.995	
anadium		4.5585	3.7487	3.2915	3.2144	3.5179	BLNK	-0.0688	0.28940		3.6662	0.998	0.995	
inc		2.6165	1.5353	0.5853	0.4682	0.4515	BLNK	-1.8588	2.22271		1.1314	1.000	0.995	

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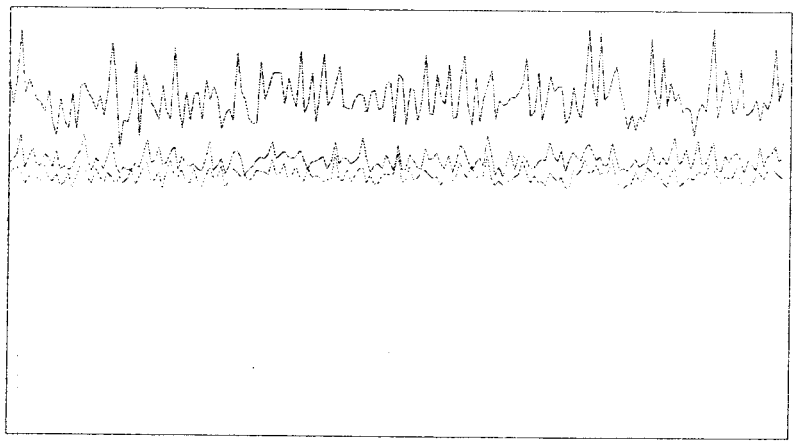
nstrument amount = a0 + response * a1 + response^2 * a2; BLNK=Y=aX+[blank]

56226997001

Tune Report

Tune File : Autotune.u



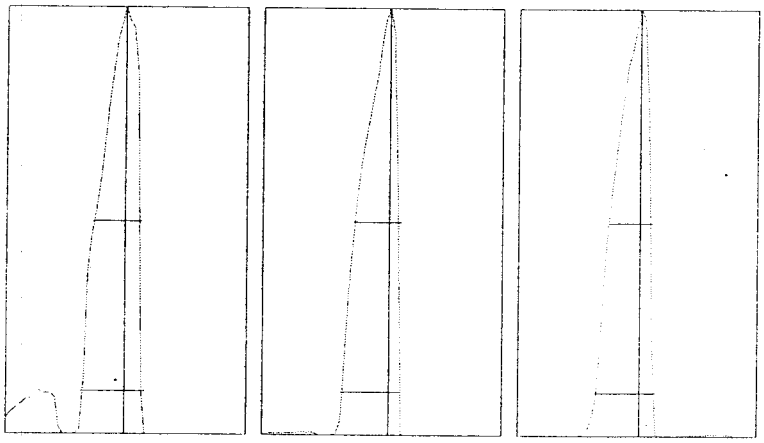
m/z:	7	89	205
Range:	10,000	20,000	20,000
Count:	8,356	13,109	12,125
Mean:	7960.9	12933.1	12163.3
RSD%:	6.72	3.40	2.86
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.39%
Doubly Charged:	70/140	2.68%

Background:

m/z:	7	89	205
Cps:	10.8	3.1	3.8



m/z:	7	89	205
Height:	7,810	14,024	12,754
Axis:	7.00	89.10	205.05
W-50%:	0.60	0.60	0.55
W-10%:	0.800	0.7500	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1320 W	Extract 1:	-140 V	AMU Gain:	131
RF Matching:	1.7 V	Extract 2:	-110 V	AMU Offset:	125
Smpl Depth:	7 mm	Einzel 1,3:	-161 V	Axis Gain:	0.9993
Torch-H:	0.1 mm	Einzel 2:	7 V	Axis Offset:	-0.06
Torch-V:	0.2 mm	Omega Bias:	-65 V	QP Bias:	1.6 V
Carrier Gas:	1.05 L/min	Omega (+):	0 V		
Makeup Gas:	0 L/min	Omega (-):	-5 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	6 V	Discriminator:	9.1 mV
PeriPump1:	0.1 rps	Plate Bias:	-5 V	Analog HV:	1790 V
PeriPump2:	--- rps			Pulse HV:	1450 V
S/C Temp:	2 degC				

Generated : Jun 06, 2006 12:53:16
Printed : Jun 06, 2006 12:53:22

P/A Factor Tuning Report

Acquired:Jun 6 2006 01:00 pm

Mass[amu]	Element	P/A Factor
6	Li	0.078329
9	Be	0.086098
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.101276
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.103861
45	Sc	0.099061
51	V	0.104008
52	Cr	0.105067
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.107003
57	Fe	0.107373
59	Co	0.108000
60	Ni	Sensitivity too low
63	Cu	0.107580
65	Cu	0.105262
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.103370
95	Mo	Sensitivity too low
98	Mo	0.104308
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.107211
111	Cd	Sensitivity too low
114	Cd	0.106388
115	In	0.106189
118	(In)	Sensitivity too high
121	Sb	0.108130
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.109268
166	Er	Sensitivity too low

205	Tl	0.111833
206	(Pb)	0.109992
207	(Pb)	0.109187
208	Pb	0.111359
209	Bi	0.108655

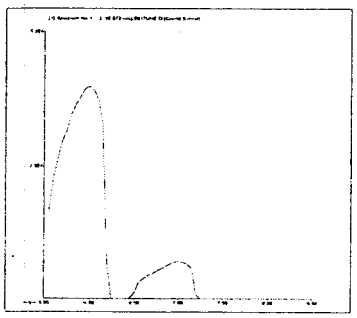
===Detector Parameters===
Discriminator: 9.1 mV
Analog HV: 1790 V
Pulse HV: 1450 V

6020 QC Tune Report

Data File:	C:\ICPCHEM\1\DATA\06F0615a.B\001TUNE.D
Date Acquired:	Jun 6 2006 03:17 pm
Acq. Method:	TN6020.M
Operator:	
Sample Name:	tun,s3622
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

Element	Actual	Required	Flag
7 Li	2.73	5.00	
59 Co	2.41	5.00	
115 In	1.02	5.00	
205 Tl	1.72	5.00	



7 Li

Mass Calib.

Actual: 7.00

Required: 6.90 - 7.10

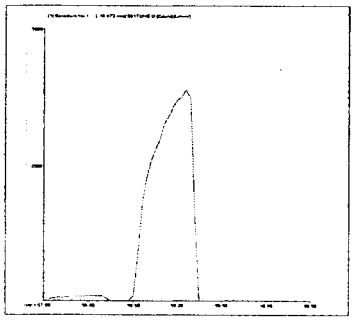
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



59 Co

Mass Calib.

Actual: 59.10

Required: 58.90 - 59.10

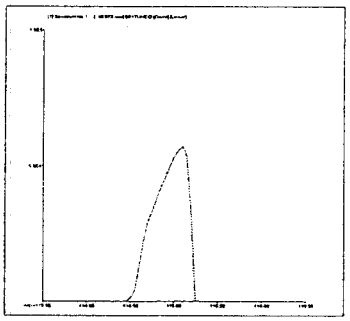
Flag:

Peak Width

Actual: 0.65

Required: 0.90

Flag:



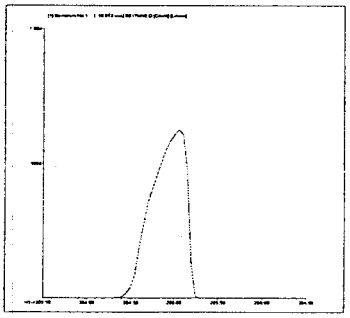
115 In

Mass Calib.

Actual:	115.10	
Required:	114.90 -	115.10
Flag:		

Peak Width

Actual:	0.60
Required:	0.90
Flag:	



205 Tl

Mass Calib.

Actual:	205.05	
Required:	204.90 -	205.10
Flag:		

Peak Width

Actual:	0.60
Required:	0.90
Flag:	

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06F0615a.B\003CAL
Date Acquired: Jun 6 2006 03:29 pm
Operator:
Sample Name: std-blk
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\602001
Last Cal Update: Jun 06 2006 02:05 pm
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	409002.19	P	4607.00	1.13
9	Be	18.89	P	10.72	56.75
23	Na	485072.19	P	27940.00	5.76
26	Mg	8508.89	P	463.30	5.44
27	Al	21338.89	P	565.90	2.65
39	K	221208.91	P	3249.00	1.47
44	Ca	3296.99	P	272.10	8.25
45	Sc	289166.69	P	5097.00	1.76
51	V	284.21	P	159.90	56.26
52	Cr	2376.67	P	70.95	2.99
55	Mn	618.89	P	6.94	1.12
57	Fe	3241.11	P	148.00	4.57
59	Co	143.33	P	29.06	20.27
60	Ni	135.56	P	1.93	1.42
65	Cu	199.96	P	20.82	10.41
66	Zn	998.89	P	80.58	8.07
72	Ge	59725.33	P	246.60	0.41
75	As	38.53	P	13.67	35.48
82	Se	8.89	P	10.21	114.86
95	Mo	156.67	P	14.53	9.27
109	Ag	54.44	P	22.19	40.76
111	Cd	102.32	P	14.70	14.37
115	In	466498.19	P	3710.00	0.80
121	Sb	85.56	P	11.71	13.69
137	Ba	36.67	P	12.02	32.78
205	Tl	443.33	P	57.83	13.04
208	Pb	303.33	P	8.82	2.91
209	Bi	483064.41	P	3198.00	0.66

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0615a.B\004CALI.D\004CALI.D#
Date Acquired: Jun 6 2006 03:34 pm
Operator:
Sample Name: cs1,s3608
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 06 2006 03:30 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	412888.91	P	7481.00	1.81
9	Be	310.00	P	17.64	5.69
23	Na	666589.31	A	26160.00	3.92
26	Mg	17904.44	P	319.60	1.79
27	Al	25855.55	P	1154.00	4.46
39	K	307690.00	P	2228.00	0.72
44	Ca	6351.88	P	365.20	5.75
45	Sc	295885.50	P	1688.00	0.57
51	V	1582.87	P	169.40	10.70
52	Cr	3402.22	P	108.80	3.20
55	Mn	1932.22	P	13.47	0.70
57	Fe	5941.11	P	210.00	3.53
59	Co	1214.44	P	53.58	4.41
60	Ni	327.78	P	30.97	9.45
65	Cu	512.14	P	29.12	5.69
66	Zn	1313.33	P	58.59	4.46
72	Ge	60478.44	P	691.20	1.14
75	As	135.40	P	87.25	64.44
82	Se	14.89	P	3.42	22.98
95	Mo	374.44	P	5.09	1.36
109	Ag	751.11	P	25.89	3.45
111	Cd	236.45	P	19.85	8.40
115	In	466077.91	P	4899.00	1.05
121	Sb	711.11	P	38.35	5.39
137	Ba	305.56	P	19.53	6.39
205	Tl	1962.22	P	136.70	6.97
208	Pb	2574.44	P	50.59	1.97
209	Bi	482033.31	P	2527.00	0.52

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	412888.88	1.81	409002.19	101.0	80 - 120	

45	Sc	295885.53	0.57	289166.66	102.3	80 -	120
72	Ge	60478.44	1.14	59725.33	101.3	80 -	120
115	In	466077.91	1.05	466498.22	99.9	80 -	120
209	Bi	482033.31	0.52	483064.41	99.8	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0615a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0615a.B\005CALI.D\005CALI.D#
Date Acquired: Jun 6 2006 03:40 pm
Operator:
Sample Name: cs2,s3609
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 06 2006 03:36 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	411613.31	P	4688.00	1.14
9	Be	541.11	P	58.72	10.85
23	Na	645040.88	M	41810.00	6.48
26	Mg	25068.89	P	237.00	0.95
27	Al	22353.33	P	190.10	0.85
39	K	374541.09	P	1114.00	0.30
44	Ca	8322.62	P	146.90	1.77
45	Sc	292792.19	P	4191.00	1.43
51	V	2719.43	P	284.10	10.45
52	Cr	3871.11	P	218.20	5.64
55	Mn	3235.55	P	78.62	2.43
57	Fe	8107.78	P	147.50	1.82
59	Co	2021.11	P	131.10	6.49
60	Ni	582.22	P	9.62	1.65
65	Cu	701.00	P	90.76	12.95
66	Zn	1561.11	P	41.94	2.69
72	Ge	59664.89	P	180.00	0.30
75	As	295.50	P	20.78	7.03
82	Se	38.22	P	12.39	32.42
95	Mo	610.00	P	23.09	3.79
109	Ag	1415.56	P	53.47	3.78
111	Cd	357.74	P	41.03	11.47
115	In	464054.00	P	3955.00	0.85
121	Sb	1245.56	P	85.27	6.85
137	Ba	485.56	P	51.24	10.55
205	Tl	3482.22	P	165.60	4.76
208	Pb	4578.89	P	64.06	1.40
209	Bi	479520.00	P	3844.00	0.80

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	411613.31	1.14	409002.19	100.6	80 - 120	

45	Sc	292792.19	1.43	289166.66	101.3	80 - 120
72	Ge	59664.89	0.30	59725.33	99.9	80 - 120
115	In	464054.00	0.85	466498.22	99.5	80 - 120
209	Bi	479519.97	0.80	483064.41	99.3	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0615a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0615a.B\006CALI.D\006CALI.D#
Date Acquired: Jun 6 2006 03:45 pm
Operator:
Sample Name: cs3,s3610
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 06 2006 03:41 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	403427.81	P	10870.00	2.69
9	Be	990.00	P	66.92	6.76
23	Na	792911.38	A	20380.00	2.57
26	Mg	40754.44	P	843.90	2.07
27	Al	20062.22	P	938.60	4.68
39	K	510123.31	P	7960.00	1.56
44	Ca	12269.26	P	199.80	1.63
45	Sc	284417.81	P	4059.00	1.43
51	V	4395.13	P	155.40	3.54
52	Cr	5400.00	P	228.20	4.23
55	Mn	5627.78	P	100.10	1.78
57	Fe	12484.44	P	247.70	1.98
59	Co	3984.44	P	163.70	4.11
60	Ni	912.22	P	63.63	6.98
65	Cu	1167.60	P	122.20	10.47
66	Zn	1800.00	P	72.19	4.01
72	Ge	58615.78	P	334.10	0.57
75	As	545.09	P	27.99	5.13
82	Se	56.44	P	4.91	8.71
95	Mo	1042.22	P	35.95	3.45
109	Ag	2516.67	P	42.56	1.69
111	Cd	657.05	P	20.95	3.19
115	In	461024.31	P	2862.00	0.62
121	Sb	2344.44	P	59.29	2.53
137	Ba	925.56	P	57.38	6.20
205	Tl	6483.33	P	78.10	1.20
208	Pb	8873.33	P	208.00	2.34
209	Bi	473013.31	P	1865.00	0.39

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	403427.78	2.69	409002.19	98.6	80 - 120	

45 Sc	284417.78	1.43	289166.66	98.4	80 -	120
72 Ge	58615.78	0.57	59725.33	98.1	80 -	120
115 In	461024.31	0.62	466498.22	98.8	80 -	120
209 Bi	473013.31	0.39	483064.41	97.9	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0615a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0615a.B\007CALI.D\007CALI.D#
Date Acquired: Jun 6 2006 03:51 pm
Operator:
Sample Name: cs4,s3611
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 06 2006 03:47 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	398507.81	P	7827.00	1.96
9	Be	10381.11	P	200.90	1.94
23	Na	4182560.00	A	43670.00	1.04
26	Mg	351328.91	P	3248.00	0.92
27	Al	40926.67	P	487.90	1.19
39	K	3412222.00	A	19880.00	0.58
44	Ca	97687.39	P	684.70	0.70
45	Sc	286646.69	P	4233.00	1.48
51	V	38822.82	P	1386.00	3.57
52	Cr	36560.00	P	1032.00	2.82
55	Mn	49715.55	P	625.30	1.26
57	Fe	98780.00	P	1789.00	1.81
59	Co	37511.11	P	221.90	0.59
60	Ni	8112.22	P	42.21	0.52
65	Cu	9090.67	P	183.90	2.02
66	Zn	6902.22	P	318.90	4.62
72	Ge	58980.44	P	463.30	0.79
75	As	4883.89	P	51.29	1.05
82	Se	420.67	P	17.33	4.12
95	Mo	9785.55	P	200.00	2.04
109	Ag	25638.89	P	357.80	1.40
111	Cd	5681.93	P	170.20	3.00
115	In	458264.59	P	2909.00	0.63
121	Sb	22387.78	P	442.70	1.98
137	Ba	8295.55	P	231.40	2.79
205	Tl	57895.55	P	1285.00	2.22
208	Pb	83871.11	P	1152.00	1.37
209	Bi	475452.19	P	5508.00	1.16

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	398507.78	1.96	409002.19	97.4	80 - 120	

45	Sc	286646.66	1.48	289166.66	99.1	80 -	120
72	Ge	58980.44	0.79	59725.33	98.8	80 -	120
115	In	458264.56	0.63	466498.22	98.2	80 -	120
209	Bi	475452.22	1.16	483064.41	98.4	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0615a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0615a.B\008CALI.D\008CALI.D#
Date Acquired: Jun 6 2006 03:57 pm
Operator:
Sample Name: cs5,s3605
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 06 2006 03:53 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	385058.91	P	2281.00	0.59
9	Be	97933.33	P	1094.00	1.12
23	Na	36390728.00	A	621600.00	1.71
26	Mg	3492115.00	A	14310.00	0.41
27	Al	268315.50	P	1110.00	0.41
39	K	29777860.00	A	216900.00	0.73
44	Ca	1010775.00	A	5223.00	0.52
45	Sc	285095.50	P	3228.00	1.13
51	V	380930.19	P	3582.00	0.94
52	Cr	337665.50	P	3542.00	1.05
55	Mn	473646.59	P	2648.00	0.56
57	Fe	1001470.00	A	778.30	0.08
59	Co	357128.91	P	2412.00	0.68
60	Ni	75572.22	P	432.30	0.57
65	Cu	84013.21	P	829.90	0.99
66	Zn	55488.88	P	415.00	0.75
72	Ge	59254.89	P	450.00	0.76
75	As	46710.13	P	397.80	0.85
82	Se	3662.67	P	46.14	1.26
95	Mo	96367.78	P	495.80	0.51
109	Ag	243974.41	P	2328.00	0.95
111	Cd	54311.69	P	620.30	1.14
115	In	451852.59	P	5719.00	1.27
121	Sb	219330.00	P	2963.00	1.35
137	Ba	81355.55	P	996.80	1.23
205	Tl	595556.63	P	8558.00	1.44
208	Pb	819648.88	P	15650.00	1.91
209	Bi	467106.59	P	2867.00	0.61

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	385058.88	0.59	409002.19	94.1	80 - 120	

45	Sc	285095.53	1.13	289166.66	98.6	80 - 120
72	Ge	59254.89	0.76	59725.33	99.2	80 - 120
115	In	451852.59	1.27	466498.22	96.9	80 - 120
209	Bi	467106.66	0.61	483064.41	96.7	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0615a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0615a.B\009CALI.D\009CALI.D#
Date Acquired: Jun 6 2006 04:02 pm
Operator:
Sample Name: cs6,s3606
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 06 2006 03:58 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	403254.41	P	6971.00	1.73
9	Be	202491.09	P	6823.00	3.37
23	Na	74624944.00	A	1968000.00	2.64
26	Mg	7106246.00	A	10760.00	0.15
27	Al	541074.38	P	11260.00	2.08
39	K	61216912.00	A	899000.00	1.47
44	Ca	2055187.00	A	36220.00	1.76
45	Sc	296670.00	P	6285.00	2.12
51	V	849563.00	A	23080.00	2.72
52	Cr	706780.81	M	42840.00	6.06
55	Mn	1032569.00	A	20140.00	1.95
57	Fe	1997270.00	A	46800.00	2.34
59	Co	760088.38	M	43380.00	5.71
60	Ni	152671.09	P	3180.00	2.08
65	Cu	169938.41	P	4662.00	2.74
66	Zn	109000.00	P	1308.00	1.20
72	Ge	60368.00	P	1212.00	2.01
75	As	94741.65	P	1903.00	2.01
82	Se	7200.67	P	58.27	0.81
95	Mo	194998.91	P	2760.00	1.42
109	Ag	486751.09	P	6746.00	1.39
111	Cd	106824.50	P	1954.00	1.83
115	In	457725.09	P	5162.00	1.13
121	Sb	440993.31	P	6859.00	1.56
137	Ba	164200.00	P	3981.00	2.42
205	Tl	1276271.00	A	3314.00	0.26
208	Pb	1638749.00	P	15580.00	0.95
209	Bi	464207.69	P	6876.00	1.48

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	403254.44	1.73	409002.19	98.6	80 - 120	

45	Sc	296670.00	2.12	289166.66	102.6	80 -	120
72	Ge	60368.00	2.01	59725.33	101.1	80 -	120
115	In	457725.13	1.13	466498.22	98.1	80 -	120
209	Bi	464207.75	1.48	483064.41	96.1	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0615a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Summary

Calibration : C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Calib: Jun 06, 2006 16:04
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\06f0615a.b\003calb.d\	003calb.d#	Jun 6 2006 03:29 pm
2	...hem\1\data\06f0615a.b\004cali.d\	004cali.d#	Jun 6 2006 03:34 pm
3	...hem\1\data\06f0615a.b\005cali.d\	005cali.d#	Jun 6 2006 03:40 pm
4	...hem\1\data\06f0615a.b\006cali.d\	006cali.d#	Jun 6 2006 03:45 pm
5	...hem\1\data\06f0615a.b\007cali.d\	007cali.d#	Jun 6 2006 03:51 pm
6	...hem\1\data\06f0615a.b\008cali.d\	008cali.d#	Jun 6 2006 03:57 pm
7	...hem\1\data\06f0615a.b\009cali.d\	009cali.d#	Jun 6 2006 04:02 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
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17	---		
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19	---		
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Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	Excluded	---	ppb
Be	9	6	Y = 1.258E-1*X +2.311E-3(blank)	---	ppb
Na	23	45	Y = 6.257E-1*X +8.383E+1(blank)	---	ppb
Mg	25	45	Excluded	---	ppb
Mg	26	45	Y = 6.008E-2*X +1.471E+0(blank)	---	ppb
Al	27	45	Y = 4.366E-1*X +3.689E+0(blank)	---	ppb
K	39	45	Y = 5.150E-1*X +3.825E+1(blank)	---	ppb
Ca	43	45	Excluded	---	ppb
Ca	44	45	Y = 1.737E-2*X +5.697E-1(blank)	---	ppb
Sc	45	---	Excluded	---	ppb
V	51	72	Y = 3.455E+0*X +2.377E-1(blank)	---	ppb
Cr	52	72	Y = 2.898E+0*X +1.990E+0(blank)	---	ppb
Cr	53	72	Excluded	---	ppb
Fe	54	72	Excluded	---	ppb
Mn	55	72	Y = 4.217E+0*X +5.181E-1(blank)	---	ppb
Fe	57	72	Y = 8.290E-2*X +2.713E+0(blank)	---	ppb
Co	59	72	Y = 3.120E+0*X +1.200E-1(blank)	---	ppb
Ni	60	72	Y = 6.328E-1*X +1.135E-1(blank)	---	ppb
Cu	63	72	Excluded	---	ppb
Cu	65	72	Y = 7.039E-1*X +1.674E-1(blank)	---	ppb
Zn	66	72	Y = 4.499E-1*X +8.363E-1(blank)	---	ppb
Ge	72	---	Excluded	---	ppb
As	75	72	Y = 3.926E-1*X +3.229E-2(blank)	---	ppb
(As)	77	72	Excluded	---	ppb
Se	82	72	Y = 3.001E-2*X +7.420E-3(blank)	---	ppb
(As)	83	72	Excluded	---	ppb
(Ca)	88	72	Excluded	---	ppb
Y	89	72	Excluded	---	ppb
Mo	95	72	Y = 8.080E-1*X +1.312E-1(blank)	---	ppb
Mo	98	72	Excluded	---	ppb
(Mo)	99	72	Excluded	---	ppb
(Cd)	106	72	Excluded	---	ppb
(Cd)	108	72	Excluded	---	ppb
Ag	109	72	Y = 2.025E+0*X +4.562E-2(blank)	---	ppb
Cd	111	72	Y = 4.452E-1*X +8.569E-2(blank)	---	ppb
Cd	114	72	Excluded	---	ppb
In	115	---	Excluded	---	ppb
(In)	118	---	Excluded	---	ppb
Sb	121	115	Y = 2.412E-1*X +9.169E-3(blank)	---	ppb
Ba	135	115	Excluded	---	ppb
Ba	137	115	Y = 8.972E-2*X +3.924E-3(blank)	---	ppb
Tb	159	---	Excluded	---	ppb
Er	166	115	Excluded	---	ppb
Tl	205	209	Y = 6.770E-1*X +4.589E-2(blank)	---	ppb
(Pb)	206	209	Excluded	---	ppb
(Pb)	207	209	Excluded	---	ppb
Pb	208	209	Y = 8.814E-1*X +3.140E-2(blank)	---	ppb
Bi	209	---	Excluded	---	ppb
Th	232	209	--------	---	ppb
U	238	209	--------	---	ppb

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997010 File : f0615010 Time : 06-JUN-2006 16:08
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3601

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	2.5605	0.4837	100.0	102.3	ug/L	2	10	
Antimony	0.2593	0.2385	100.0	98.86	ug/L	-1	10	
Arsenic	0.4322	0.3949	100.0	100.5	ug/L	1	10	
Barium	0.1011	0.0885	100.0	98.56	ug/L	-1	10	
Beryllium	0.1312	0.1264	100.0	100.4	ug/L	0	10	
Cadmium	0.5540	0.4504	100.0	101.0	ug/L	1	10	
Calcium	0.0204	0.0176	10000	10120	ug/L	1	10	
Chromium	3.9935	2.8573	100.0	97.90	ug/L	-2	10	
Cobalt	3.3573	3.0193	100.0	96.74	ug/L	-3	10	
Copper	0.8707	0.7116	100.0	100.9	ug/L	1	10	
Iron	0.0987	0.0838	10000	10080	ug/L	1	10	
Lead	0.9338	0.8734	100.0	99.06	ug/L	-1	10	
Magnesium	0.0679	0.0628	10000	10430	ug/L	4	10	
Manganese	4.8501	3.9427	100.0	93.37	ug/L	-7	10	
Molybdenum	0.8724	0.7953	100.0	98.27	ug/L	-2	10	
Nickel	0.7992	0.6269	100.0	98.89	ug/L	-1	10	
Potassium	0.7619	0.5267	10000	10150	ug/L	2	10	
Selenium	0.0417	0.0303	100.0	100.7	ug/L	1	10	
Silver	2.2086	2.0304	100.0	100.3	ug/L	0	10	
Sodium	1.1190	0.6435	10000	10150	ug/L	2	10	
Thallium	0.6690	0.6273	50.00	46.26	ug/L	-7	10	
Vanadium	3.6662	3.2166	100.0	93.02	ug/L	-7	10	
Zinc	1.1314	0.4653	100.0	101.6	ug/L	2	10	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	405462	-0.87
Scandium	289167	293560	1.52
Germanium	59725	61104	2.31
Indium	466498	460452	-1.30
Bismuth	483064	474326	-1.81

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997026 File : f0615026 Time : 06-JUN-2006 17:38
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3602, S3310

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.5605	0.5026	100.0	106.7	ug/L	7	10	
Antimony	0.2593	0.2424	100.0	100.5	ug/L	1	10	
Arsenic	0.4322	0.3970	100.0	101.1	ug/L	1	10	
Barium	0.1011	0.0904	100.0	100.7	ug/L	1	10	
Beryllium	0.1312	0.1270	100.0	100.9	ug/L	1	10	
Cadmium	0.5540	0.4515	100.0	101.2	ug/L	1	10	
Calcium	0.0204	0.0180	10000	10330	ug/L	3	10	
Chromium	3.9935	2.8693	100.0	98.32	ug/L	-2	10	
Cobalt	3.3573	3.0439	100.0	97.53	ug/L	-2	10	
Copper	0.8707	0.7123	100.0	101.0	ug/L	1	10	
Iron	0.0987	0.0847	10000	10180	ug/L	2	10	
Lead	0.9338	0.8806	100.0	99.87	ug/L	0	10	
Magnesium	0.0679	0.0627	10000	10410	ug/L	4	10	
Manganese	4.8501	4.0135	100.0	95.05	ug/L	-5	10	
Molybdenum	0.8724	0.8113	100.0	100.2	ug/L	0	10	
Nickel	0.7992	0.6350	100.0	100.2	ug/L	0	10	
Potassium	0.7619	0.5294	10000	10210	ug/L	2	10	
Selenium	0.0417	0.0310	100.0	102.9	ug/L	3	10	
Silver	2.2086	2.0480	100.0	101.1	ug/L	1	10	
Sodium	1.1190	0.6524	10000	10290	ug/L	3	10	
Thallium	0.6690	0.6213	50.00	45.81	ug/L	-8	10	
Vanadium	3.6662	3.1885	100.0	92.20	ug/L	-8	10	
Zinc	1.1314	0.4635	100.0	101.2	ug/L	1	10	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	384100	-6.09
Scandium	289167	277360	-4.08
Germanium	59725	58969	-1.27
Indium	466498	441948	-5.26
Bismuth	483064	455501	-5.71

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997037 File : f0615037 Time : 06-JUN-2006 18:48
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3621, S3310

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.5605	0.4652	150.0	151.4	ug/L	1	10	
Antimony	0.2593	0.2313	150.0	143.8	ug/L	-4	10	
Arsenic	0.4322	0.3790	150.0	144.7	ug/L	-4	10	
Barium	0.1011	0.0872	150.0	145.7	ug/L	-3	10	
Beryllium	0.1312	0.1208	150.0	143.9	ug/L	-4	10	
Cadmium	0.5540	0.4117	150.0	138.5	ug/L	-8	10	
Calcium	0.0204	0.0169	15000	14550	ug/L	-3	10	
Chromium	3.9935	2.7991	150.0	144.2	ug/L	-4	10	
Cobalt	3.3573	2.9667	150.0	142.6	ug/L	-5	10	
Copper	0.8707	0.7046	150.0	149.9	ug/L	0	10	
Iron	0.0987	0.0822	15000	14840	ug/L	-1	10	
Lead	0.9338	0.8421	150.0	143.3	ug/L	-4	10	
Magnesium	0.0679	0.0602	15000	15020	ug/L	0	10	
Manganese	4.8501	4.0865	150.0	145.2	ug/L	-3	10	
Molybdenum	0.8724	0.7623	150.0	141.4	ug/L	-6	10	
Nickel	0.7992	0.6257	150.0	148.1	ug/L	-1	10	
Potassium	0.7619	0.5036	15000	14590	ug/L	-3	10	
Selenium	0.0417	0.0289	150.0	144.4	ug/L	-4	10	
Silver	2.2086	1.8975	150.0	140.6	ug/L	-6	10	
Sodium	1.1190	0.6295	15000	14960	ug/L	0	10	
Thallium	0.6690	0.6204	150.0	137.4	ug/L	-8	10	
Vanadium	3.6662	3.1971	150.0	138.7	ug/L	-8	10	
Zinc	1.1314	0.4409	150.0	145.1	ug/L	-3	10	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	427199	4.45
Scandium	289167	307673	6.40
Germanium	59725	63320	6.02
Indium	466498	459278	-1.55
Bismuth	483064	461141	-4.54

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997053 File : f0615053 Time : 06-JUN-2006 20:22
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3621, S3310

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.5605	0.5050	150.0	165.1	ug/L	10	10	
Antimony	0.2593	0.2373	150.0	147.5	ug/L	-2	10	
Arsenic	0.4322	0.3896	150.0	148.8	ug/L	-1	10	
Barium	0.1011	0.0902	150.0	150.8	ug/L	1	10	
Beryllium	0.1312	0.1259	150.0	150.0	ug/L	0	10	
Cadmium	0.5540	0.4143	150.0	139.4	ug/L	-7	10	
Calcium	0.0204	0.0175	15000	15060	ug/L	0	10	
Chromium	3.9935	2.9220	150.0	150.5	ug/L	0	10	
Cobalt	3.3573	3.1109	150.0	149.5	ug/L	0	10	
Copper	0.8707	0.7225	150.0	153.7	ug/L	2	10	
Iron	0.0987	0.0860	15000	15530	ug/L	4	10	
Lead	0.9338	0.8555	150.0	145.6	ug/L	-3	10	
Magnesium	0.0679	0.0658	15000	16410	ug/L	9	10	
Manganese	4.8501	4.3617	150.0	155.0	ug/L	3	10	
Molybdenum	0.8724	0.7717	150.0	143.1	ug/L	-5	10	
Nickel	0.7992	0.6527	150.0	154.5	ug/L	3	10	
Potassium	0.7619	0.5258	15000	15240	ug/L	2	10	
Selenium	0.0417	0.0296	150.0	147.5	ug/L	-2	10	
Silver	2.2086	1.8877	150.0	139.8	ug/L	-7	10	
Sodium	1.1190	0.6816	15000	16210	ug/L	8	10	
Thallium	0.6690	0.6433	150.0	142.5	ug/L	-5	10	
Vanadium	3.6662	3.3204	150.0	144.1	ug/L	-4	10	
Zinc	1.1314	0.4590	150.0	151.2	ug/L	1	10	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	444276	8.62
Scandium	289167	310377	7.33
Germanium	59725	62882	5.29
Indium	466498	446223	-4.35
Bismuth	483064	448979	-7.06

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997068 File : f0615068 Time : 06-JUN-2006 21:46
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3621, S3310

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.5605	0.4819	150.0	157.1	ug/L	5	10	
Antimony	0.2593	0.2368	150.0	147.2	ug/L	-2	10	
Arsenic	0.4322	0.3832	150.0	146.3	ug/L	-2	10	
Barium	0.1011	0.0897	150.0	150.0	ug/L	0	10	
Beryllium	0.1312	0.1258	150.0	149.9	ug/L	0	10	
Cadmium	0.5540	0.4173	150.0	140.4	ug/L	-6	10	
Calcium	0.0204	0.0173	15000	14880	ug/L	-1	10	
Chromium	3.9935	2.9161	150.0	150.2	ug/L	0	10	
Cobalt	3.3573	3.0631	150.0	147.2	ug/L	-2	10	
Copper	0.8707	0.7107	150.0	151.2	ug/L	1	10	
Iron	0.0987	0.0859	15000	15510	ug/L	3	10	
Lead	0.9338	0.8473	150.0	144.2	ug/L	-4	10	
Magnesium	0.0679	0.0640	15000	15960	ug/L	6	10	
Manganese	4.8501	4.1414	150.0	147.2	ug/L	-2	10	
Molybdenum	0.8724	0.7737	150.0	143.5	ug/L	-4	10	
Nickel	0.7992	0.6444	150.0	152.6	ug/L	2	10	
Potassium	0.7619	0.5170	15000	14990	ug/L	0	10	
Selenium	0.0417	0.0292	150.0	145.5	ug/L	-3	10	
Silver	2.2086	1.9154	150.0	141.9	ug/L	-5	10	
Sodium	1.1190	0.6764	15000	16080	ug/L	7	10	
Thallium	0.6690	0.6195	150.0	137.2	ug/L	-9	10	
Vanadium	3.6662	3.3179	150.0	144.0	ug/L	-4	10	
Zinc	1.1314	0.4564	150.0	150.3	ug/L	0	10	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	423136	3.46
Scandium	289167	300524	3.93
Germanium	59725	60098	0.62
Indium	466498	430691	-7.68
Bismuth	483064	435798	-9.78

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997080 File : f0615080 Time : 06-JUN-2006 22:53
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3621, S3310

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.5605	0.5349	150.0	175.3	ug/L	17	10	c+ ***
Antimony	0.2593	0.2365	150.0	147.1	ug/L	-2	10	
Arsenic	0.4322	0.3859	150.0	147.4	ug/L	-2	10	
Barium	0.1011	0.0891	150.0	149.0	ug/L	-1	10	
Beryllium	0.1312	0.1321	150.0	157.4	ug/L	5	10	
Cadmium	0.5540	0.3966	150.0	133.5	ug/L	-11	10	c- ***
Calcium	0.0204	0.0174	15000	14960	ug/L	0	10	
Chromium	3.9935	2.9557	150.0	152.3	ug/L	2	10	
Cobalt	3.3573	3.1474	150.0	151.3	ug/L	1	10	
Copper	0.8707	0.7251	150.0	154.3	ug/L	3	10	
Iron	0.0987	0.0868	15000	15670	ug/L	4	10	
Lead	0.9338	0.8443	150.0	143.7	ug/L	-4	10	
Magnesium	0.0679	0.0680	15000	16950	ug/L	13	10	c+ ***
Manganese	4.8501	4.2850	150.0	152.3	ug/L	2	10	
Molybdenum	0.8724	0.7472	150.0	138.5	ug/L	-8	10	
Nickel	0.7992	0.6641	150.0	157.2	ug/L	5	10	
Potassium	0.7619	0.5230	15000	15160	ug/L	1	10	
Selenium	0.0417	0.0287	150.0	143.1	ug/L	-5	10	
Silver	2.2086	1.8249	150.0	135.2	ug/L	-10	10	
Sodium	1.1190	0.7151	15000	17010	ug/L	13	10	c+ ***
Thallium	0.6690	0.6180	150.0	136.9	ug/L	-9	10	
Vanadium	3.6662	3.3503	150.0	145.4	ug/L	-3	10	
Zinc	1.1314	0.4567	150.0	150.4	ug/L	0	10	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	438729	7.27
Scandium	289167	307478	6.33
Germanium	59725	61802	3.48
Indium	466498	419369	-10.10
Bismuth	483064	419288	-13.20

+=high bias -=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997097 File : f0615097 Time : 07-JUN-2006 00:28
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3621, S3310

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.5605	0.4975	150.0	162.5	ug/L	8	10	
Antimony	0.2593	0.2372	150.0	147.5	ug/L	-2	10	
Arsenic	0.4322	0.3826	150.0	146.1	ug/L	-3	10	
Barium	0.1011	0.0892	150.0	149.0	ug/L	-1	10	
Beryllium	0.1312	0.1281	150.0	152.7	ug/L	2	10	
Cadmium	0.5540	0.3990	150.0	134.3	ug/L	-10	10	
Calcium	0.0204	0.0175	15000	15110	ug/L	1	10	
Chromium	3.9935	2.8823	150.0	148.5	ug/L	-1	10	
Cobalt	3.3573	3.0311	150.0	145.7	ug/L	-3	10	
Copper	0.8707	0.7180	150.0	152.8	ug/L	2	10	
Iron	0.0987	0.0847	15000	15280	ug/L	2	10	
Lead	0.9338	0.8360	150.0	142.2	ug/L	-5	10	
Magnesium	0.0679	0.0677	15000	16870	ug/L	12	10	c+ ***
Manganese	4.8501	3.9688	150.0	141.0	ug/L	-6	10	
Molybdenum	0.8724	0.7517	150.0	139.4	ug/L	-7	10	
Nickel	0.7992	0.6361	150.0	150.6	ug/L	0	10	
Potassium	0.7619	0.5341	15000	15480	ug/L	3	10	
Selenium	0.0417	0.0289	150.0	144.3	ug/L	-4	10	
Silver	2.2086	1.8577	150.0	137.6	ug/L	-8	10	
Sodium	1.1190	0.6944	15000	16510	ug/L	10	10	
Thallium	0.6690	0.6113	150.0	135.4	ug/L	-10	10	
Vanadium	3.6662	3.2597	150.0	141.4	ug/L	-6	10	
Zinc	1.1314	0.4574	150.0	150.6	ug/L	0	10	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	383973	-6.12
Scandium	289167	268938	-7.00
Germanium	59725	54816	-8.22
Indium	466498	376955	-19.19
Bismuth	483064	383230	-20.67

=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997112 File : f0615112 Time : 07-JUN-2006 01:52
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3621, S3310

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.5605	0.5021	150.0	164.1	ug/L	9	10	
Antimony	0.2593	0.2370	150.0	147.4	ug/L	-2	10	
Arsenic	0.4322	0.3789	150.0	144.7	ug/L	-4	10	
Barium	0.1011	0.0892	150.0	149.1	ug/L	-1	10	
Beryllium	0.1312	0.1286	150.0	153.3	ug/L	2	10	
Cadmium	0.5540	0.3948	150.0	132.8	ug/L	-11	10	c- ***
Calcium	0.0204	0.0175	15000	15110	ug/L	1	10	
Chromium	3.9935	2.9108	150.0	150.0	ug/L	0	10	
Cobalt	3.3573	3.0492	150.0	146.6	ug/L	-2	10	
Copper	0.8707	0.7072	150.0	150.5	ug/L	0	10	
Iron	0.0987	0.0844	15000	15240	ug/L	2	10	
Lead	0.9338	0.8353	150.0	142.1	ug/L	-5	10	
Magnesium	0.0679	0.0665	15000	16570	ug/L	10	10	
Manganese	4.8501	3.9761	150.0	141.3	ug/L	-6	10	
Molybdenum	0.8724	0.7511	150.0	139.3	ug/L	-7	10	
Nickel	0.7992	0.6421	150.0	152.0	ug/L	1	10	
Potassium	0.7619	0.5404	15000	15670	ug/L	4	10	
Selenium	0.0417	0.0286	150.0	142.6	ug/L	-5	10	
Silver	2.2086	1.8283	150.0	135.4	ug/L	-10	10	
Sodium	1.1190	0.6880	15000	16360	ug/L	9	10	
Thallium	0.6690	0.6117	150.0	135.5	ug/L	-10	10	
Vanadium	3.6662	3.2930	150.0	142.9	ug/L	-5	10	
Zinc	1.1314	0.4512	150.0	148.6	ug/L	-1	10	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	369084	-9.76
Scandium	289167	261829	-9.45
Germanium	59725	53130	-11.04
Indium	466498	360394	-22.74
Bismuth	483064	355399	-26.43

=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997121 File : f0615121 Time : 07-JUN-2006 02:43
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3621, S3310

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.5605	0.4901	150.0	159.9	ug/L	7	10	
Antimony	0.2593	0.2347	150.0	145.9	ug/L	-3	10	
Arsenic	0.4322	0.3755	150.0	143.4	ug/L	-4	10	
Barium	0.1011	0.0884	150.0	147.7	ug/L	-2	10	
Beryllium	0.1312	0.1284	150.0	153.0	ug/L	2	10	
Cadmium	0.5540	0.3897	150.0	131.1	ug/L	-13	10	c- ***
Calcium	0.0204	0.0175	15000	15090	ug/L	1	10	
Chromium	3.9935	2.8893	150.0	148.9	ug/L	-1	10	
Cobalt	3.3573	3.0268	150.0	145.5	ug/L	-3	10	
Copper	0.8707	0.7083	150.0	150.7	ug/L	0	10	
Iron	0.0987	0.0844	15000	15240	ug/L	2	10	
Lead	0.9338	0.8291	150.0	141.1	ug/L	-6	10	
Magnesium	0.0679	0.0664	15000	16560	ug/L	10	10	
Manganese	4.8501	3.9474	150.0	140.3	ug/L	-6	10	
Molybdenum	0.8724	0.7414	150.0	137.5	ug/L	-8	10	
Nickel	0.7992	0.6473	150.0	153.2	ug/L	2	10	
Potassium	0.7619	0.5302	15000	15370	ug/L	2	10	
Selenium	0.0417	0.0282	150.0	140.6	ug/L	-6	10	
Silver	2.2086	1.8088	150.0	134.0	ug/L	-11	10	c- ***
Sodium	1.1190	0.6917	15000	16450	ug/L	10	10	
Thallium	0.6690	0.6045	150.0	133.9	ug/L	-11	10	c- ***
Vanadium	3.6662	3.2874	150.0	142.6	ug/L	-5	10	
Zinc	1.1314	0.4462	150.0	146.9	ug/L	-2	10	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	382792	-6.41
Scandium	289167	269839	-6.68
Germanium	59725	54671	-8.46
Indium	466498	370146	-20.65
Bismuth	483064	361298	-25.21

=low bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997013 File : f0615013 Time : 06-JUN-2006 16:25
Cal : 56226997001 Caldate: 06-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2693]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2386]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	405030	-0.97
Scandium	289167	290944	0.61
Germanium	59725	59491	-0.39
Indium	466498	466354	-0.03
Bismuth	483064	479114	-0.82

=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997029 File : f0615029 Time : 06-JUN-2006 17:55
Cal : 56226997001 Caldate: 06-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	[0.09908]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.006421]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.04606]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.3233]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1018]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	391597	-4.26
Scandium	289167	284453	-1.63
Germanium	59725	59742	0.03
Indium	466498	456195	-2.21
Bismuth	483064	471452	-2.40

=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997039 File : f0615039 Time : 06-JUN-2006 19:04
Cal : 56226997001 Caldate: 06-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2136]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	430212	5.19
Scandium	289167	301447	4.25
Germanium	59725	61676	3.27
Indium	466498	453145	-2.86
Bismuth	483064	455232	-5.76

=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997056 File : f0615056 Time : 06-JUN-2006 20:39
Cal : 56226997001 Caldate: 06-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.1666]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.3821]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1377]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	460363	12.56
Scandium	289167	310703	7.45
Germanium	59725	62428	4.53
Indium	466498	449303	-3.69
Bismuth	483064	447419	-7.38

=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997070 File : f0615070 Time : 06-JUN-2006 21:57
Cal : 56226997001 Caldate: 06-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	[0.04637]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	[0.03154]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.02024]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.01066]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.009531]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.1656]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.02060]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2336]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	422919	3.40
Scandium	289167	296271	2.46
Germanium	59725	59815	0.15
Indium	466498	436500	-6.43
Bismuth	483064	431133	-10.75

=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997082 File : f0615082 Time : 06-JUN-2006 23:04
Cal : 56226997001 Caldate: 06-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	[0.04740]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	[0.02410]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.02309]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.01294]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.02732]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.1123]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.01865]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2313]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	458286	12.05
Scandium	289167	311790	7.82
Germanium	59725	61314	2.66
Indium	466498	428779	-8.09
Bismuth	483064	421616	-12.72

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997100 File : f0615100 Time : 07-JUN-2006 00:45
Cal : 56226997001 Caldate: 06-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2198]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1683]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	399070	-2.43
Scandium	289167	274403	-5.11
Germanium	59725	54752	-8.33
Indium	466498	385914	-17.27
Bismuth	483064	380916	-21.15

=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997114 File : f0615114 Time : 07-JUN-2006 02:04
Cal : 56226997001 Caldate: 06-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	[0.04644]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1326]	0.5000	0.09029	ug/L	!ib
Barium	[0.02871]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.03294]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.01546]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01407]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.01646]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2271]	0.5000	0.02100	ug/L	!ib
Vanadium	[0.1004]	0.5000	0.08283	ug/L	!ib
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	387552	-5.24
Scandium	289167	267846	-7.37
Germanium	59725	53474	-10.47
Indium	466498	376163	-19.36
Bismuth	483064	362491	-24.96

=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997124 File : f0615124 Time : 07-JUN-2006 03:00
Cal : 56226997001 Caldate: 06-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1040]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	410496	0.37
Scandium	289167	275257	-4.81
Germanium	59725	55531	-7.02
Indium	466498	379673	-18.61
Bismuth	483064	363170	-24.82

=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997014 File : f0615014 Time : 06-JUN-2006 16:30
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3612, S3310

Analyte	Quant	RL	Units	Flags
Antimony	2.128	0.2500	ug/L	
Arsenic	0.5787	0.5000	ug/L	
Barium	0.8640	0.2500	ug/L	
Beryllium	[0.01813]	0.2500	ug/L	
Cadmium	[0.1437]	0.2500	ug/L	
Chromium	0.9933	0.5000	ug/L	
Cobalt	2.719	0.2500	ug/L	
Copper	1.606	0.5000	ug/L	
Lead	1.201	0.2500	ug/L	
Manganese	0.8555	0.2500	ug/L	
Nickel	1.321	0.2500	ug/L	
Selenium	[0.3074]	0.5000	ug/L	
Silver	[0.1669]	0.2500	ug/L	
Thallium	[0.2344]	0.5000	ug/L	
Vanadium	[0.1434]	0.5000	ug/L	
Zinc	2.847	0.5000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	100900	ug/L	101
Calcium	300000	286300	ug/L	95
Iron	250000	231300	ug/L	93
Magnesium	100000	94830	ug/L	95
Molybdenum	2000	2022	ug/L	101
Potassium	100000	95770	ug/L	96
Sodium	250000	232800	ug/L	93

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	337424	-17.50
Scandium	289167	261874	-9.44
Germanium	59725	52719	-11.73
Indium	466498	388104	-16.80
Bismuth	483064	386523	-19.99

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997015 File : f0615015 Time : 06-JUN-2006 16:36
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3620, S3310

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	98660	ug/L	-1		
Arsenic	100.0	106.4	ug/L	6	20	
Cadmium	100.0	100.5	ug/L	1	20	
Calcium	300000	282900	ug/L	-6		
Chromium	200.0	205.7	ug/L	3	20	
Cobalt	200.0	196.8	ug/L	-2	20	
Copper	200.0	194.5	ug/L	-3	20	
Iron	250000	225100	ug/L	-10		
Magnesium	100000	92290	ug/L	-8		
Manganese	200.0	213.4	ug/L	7	20	
Molybdenum	2000	2009	ug/L	0		
Nickel	200.0	197.6	ug/L	-1	20	
Potassium	100000	94880	ug/L	-5		
Selenium	100.0	95.20	ug/L	-5	20	
Silver	50.00	50.23	ug/L	0	20	
Sodium	250000	228200	ug/L	-9		
Vanadium	200.0	209.7	ug/L	5	20	
Zinc	100.0	105.9	ug/L	6	20	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Scandium	289167	248483	-14.07
Germanium	59725	51041	-14.54

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997030 File : f0615030 Time : 06-JUN-2006 18:00
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3612, S3310

Analyte	Quant	RL	Units	Flags
Antimony	2.114	0.2500	ug/L	
Arsenic	[0.4367]	0.5000	ug/L	
Barium	0.9599	0.2500	ug/L	
Beryllium	[0.03220]	0.2500	ug/L	
Cadmium	[0.07788]	0.2500	ug/L	
Chromium	0.9488	0.5000	ug/L	
Cobalt	2.585	0.2500	ug/L	
Copper	1.549	0.5000	ug/L	
Lead	1.123	0.2500	ug/L	
Manganese	0.9190	0.2500	ug/L	
Nickel	1.260	0.2500	ug/L	
Selenium	[0.2489]	0.5000	ug/L	
Silver	[0.1499]	0.2500	ug/L	
Thallium	[0.1208]	0.5000	ug/L	
Vanadium	[0.1214]	0.5000	ug/L	
Zinc	2.570	0.5000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	100000	ug/L	100
Calcium	300000	286000	ug/L	95
Iron	250000	226900	ug/L	91
Magnesium	100000	93480	ug/L	93
Molybdenum	2000	2014	ug/L	101
Potassium	100000	95890	ug/L	96
Sodium	250000	229300	ug/L	92

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	322707	-21.10
Scandium	289167	251638	-12.98
Germanium	59725	52181	-12.63
Indium	466498	381882	-18.14
Bismuth	483064	380000	-21.34

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997031 File : f0615031 Time : 06-JUN-2006 18:06
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3620, S3310

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	99290	ug/L	-1		
Arsenic	100.0	105.9	ug/L	6	20	
Cadmium	100.0	97.57	ug/L	-2	20	
Calcium	300000	281900	ug/L	-6		
Chromium	200.0	212.5	ug/L	6	20	
Cobalt	200.0	196.1	ug/L	-2	20	
Copper	200.0	194.7	ug/L	-3	20	
Iron	250000	226200	ug/L	-10		
Magnesium	100000	92970	ug/L	-7		
Manganese	200.0	212.6	ug/L	6	20	
Molybdenum	2000	1984	ug/L	-1		
Nickel	200.0	197.2	ug/L	-1	20	
Potassium	100000	94210	ug/L	-6		
Selenium	100.0	95.84	ug/L	-4	20	
Silver	50.00	49.37	ug/L	-1	20	
Sodium	250000	231000	ug/L	-8		
Vanadium	200.0	220.4	ug/L	10	20	
Zinc	100.0	106.0	ug/L	6	20	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Scandium	289167	258074	-10.75
Germanium	59725	53085	-11.12

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997076 File : f0615076 Time : 06-JUN-2006 22:31
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3612, S3310

Analyte	Quant	RL	Units	Flags
Antimony	2.129	0.2500	ug/L	
Arsenic	[0.3958]	0.5000	ug/L	
Barium	1.058	0.2500	ug/L	
Beryllium	[0.03502]	0.2500	ug/L	
Cadmium	[0.08369]	0.2500	ug/L	
Chromium	1.075	0.5000	ug/L	
Cobalt	2.749	0.2500	ug/L	
Copper	1.637	0.5000	ug/L	
Lead	1.479	0.2500	ug/L	
Manganese	1.645	0.2500	ug/L	
Nickel	1.569	0.2500	ug/L	
Selenium	[0]	0.5000	ug/L	
Silver	[0.1345]	0.2500	ug/L	
Thallium	[0.03900]	0.5000	ug/L	
Vanadium	[0.1528]	0.5000	ug/L	
Zinc	3.254	0.5000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	105200	ug/L	105
Calcium	300000	281400	ug/L	94
Iron	250000	231900	ug/L	93
Magnesium	100000	98790	ug/L	99
Molybdenum	2000	1885	ug/L	94
Potassium	100000	95030	ug/L	95
Sodium	250000	246200	ug/L	98

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	365672	-10.59
Scandium	289167	276093	-4.52
Germanium	59725	54486	-8.77
Indium	466498	371501	-20.36
Bismuth	483064	352538	-27.02

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997077 File : f0615077 Time : 06-JUN-2006 22:36
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3620, S3310

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	102700	ug/L	3		
Arsenic	100.0	102.9	ug/L	3	20	
Cadmium	100.0	90.82	ug/L	-9	20	
Calcium	300000	272700	ug/L	-9		
Chromium	200.0	209.5	ug/L	5	20	
Cobalt	200.0	204.5	ug/L	2	20	
Copper	200.0	195.6	ug/L	-2	20	
Iron	250000	226700	ug/L	-9		
Magnesium	100000	96680	ug/L	-3		
Manganese	200.0	214.2	ug/L	7	20	
Molybdenum	2000	1863	ug/L	-7		
Nickel	200.0	198.6	ug/L	-1	20	
Potassium	100000	92800	ug/L	-7		
Selenium	100.0	92.60	ug/L	-7	20	
Silver	50.00	45.44	ug/L	-9	20	
Sodium	250000	239800	ug/L	-4		
Vanadium	200.0	221.3	ug/L	11	20	
Zinc	100.0	106.0	ug/L	6	20	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Scandium	289167	271540	-6.10
Germanium	59725	53545	-10.35

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997125 File : f0615125 Time : 07-JUN-2006 03:06
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3612, S3310

Analyte	Quant	RL	Units	Flags
Antimony	2.189	0.2500	ug/L	
Arsenic	0.5440	0.5000	ug/L	
Barium	0.9617	0.2500	ug/L	
Beryllium	[0.009309]	0.2500	ug/L	
Cadmium	[0.07816]	0.2500	ug/L	
Chromium	0.9383	0.5000	ug/L	
Cobalt	2.619	0.2500	ug/L	
Copper	1.594	0.5000	ug/L	
Lead	1.183	0.2500	ug/L	
Manganese	0.8678	0.2500	ug/L	
Nickel	1.533	0.2500	ug/L	
Selenium	[0.4716]	0.5000	ug/L	
Silver	[0.1123]	0.2500	ug/L	
Thallium	[0.1349]	0.5000	ug/L	
Vanadium	[0.1476]	0.5000	ug/L	
Zinc	2.663	0.5000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	111100	ug/L	111
Calcium	300000	284700	ug/L	95
Iron	250000	229000	ug/L	92
Magnesium	100000	105100	ug/L	105
Molybdenum	2000	1816	ug/L	91
Potassium	100000	98550	ug/L	99
Sodium	250000	259100	ug/L	104

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	334000	-18.34
Scandium	289167	249097	-13.86
Germanium	59725	49456	-17.19
Indium	466498	314078	-32.67
Bismuth	483064	288621	-40.25

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997126 File : f0615126 Time : 07-JUN-2006 03:11
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3620, S3310

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	107600	ug/L	8		
Arsenic	100.0	101.6	ug/L	2	20	
Cadmium	100.0	85.36	ug/L	-15	20	
Calcium	300000	282400	ug/L	-6		
Chromium	200.0	213.1	ug/L	7	20	
Cobalt	200.0	201.6	ug/L	1	20	
Copper	200.0	196.1	ug/L	-2	20	
Iron	250000	229600	ug/L	-8		
Magnesium	100000	100600	ug/L	1		
Manganese	200.0	216.5	ug/L	8	20	
Molybdenum	2000	1811	ug/L	-9		
Nickel	200.0	202.3	ug/L	1	20	
Potassium	100000	96190	ug/L	-4		
Selenium	100.0	87.24	ug/L	-13	20	
Silver	50.00	44.00	ug/L	-12	20	
Sodium	250000	253300	ug/L	1		
Vanadium	200.0	230.1	ug/L	15	20	
Zinc	100.0	103.0	ug/L	3	20	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Scandium	289167	253426	-12.36
Germanium	59725	48658	-18.53

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56226997 Instrument: MET05 Agilent ICP-MS Begun: 06-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
001	f0615001	TUN				06-JUN-2006 15:17	1.0	1.0		1	
002	f0615002	X	RINSE			06-JUN-2006 15:23	1.0			2	
003	f0615003	ICALBLK	STD-BLK			06-JUN-2006 15:29	1.0	1.0		2	
004	f0615004	ICAL	CS1			06-JUN-2006 15:34	1.0	1.0		3	
005	f0615005	ICAL	CS2			06-JUN-2006 15:40	1.0	1.0		4	
006	f0615006	ICAL	CS3			06-JUN-2006 15:45	1.0	1.0		5	
007	f0615007	ICAL	CS4			06-JUN-2006 15:51	1.0	1.0		6	
008	f0615008	ICAL	CS5			06-JUN-2006 15:57	1.0	1.0		7	
009	f0615009	ICAL	CS6			06-JUN-2006 16:02	1.0	1.0		8	
010	f0615010	ICV				06-JUN-2006 16:08	1.0	1.0	1	9	
011	f0615011	X	RINSE			06-JUN-2006 16:13	1.0			2	
012	f0615012	X				06-JUN-2006 16:19	1.0	1.0	1	2	
013	f0615013	ICB				06-JUN-2006 16:25	1.0	1.0	1	2	
014	f0615014	ICSA				06-JUN-2006 16:30	1.0	1.0	1	10 2	7:CA=286300
015	f0615015	ICSAB				06-JUN-2006 16:36	1.0	1.0	1	11 2	10:CA=282900
016	f0615016	X	RINSE			06-JUN-2006 16:41	1.0			2	314
017	f0615017	X	RINSE			06-JUN-2006 16:47	1.0			2	
018	f0615018	SAMPLE	187072-010	114019	Filtra	06-JUN-2006 16:53	1.0	1.0	1	2	
019	f0615019	SAMPLE	187070-007	114018	Filtra	06-JUN-2006 16:58	1.0	1.0	1	2	5:NA=680400
020	f0615020	SAMPLE	187070-009	114018	Filtra	06-JUN-2006 17:04	5.0	1.0	1	2	4:NA=716200
021	f0615021	X	187070-007	114018	Filtra	06-JUN-2006 17:10	1.0			2	
022	f0615022	SAMPLE	187070-009	114018	Filtra	06-JUN-2006 17:15	5.0	1.0	1	2	4:NA=783200
023	f0615023	SAMPLE	187070-007	114018	Filtra	06-JUN-2006 17:21	1.0	1.0	1	2	5:NA=711000
024	f0615024	X	RINSE			06-JUN-2006 17:26	1.0			2	
025	f0615025	X				06-JUN-2006 17:32	1.0			12 2	
026	f0615026	CCV				06-JUN-2006 17:38	1.0	1.0	1	12 2	
027	f0615027	X	RINSE			06-JUN-2006 17:43	1.0			2	
028	f0615028	X				06-JUN-2006 17:49	1.0			2	
029	f0615029	CCB				06-JUN-2006 17:55	1.0	1.0	1	2	
030	f0615030	ICSA				06-JUN-2006 18:00	1.0	1.0	1	10 2	7:CA=286000
031	f0615031	ICSAB				06-JUN-2006 18:06	1.0	1.0	1	11 2	10:CA=281900

Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3602 13=S3621 14=S3085

Analyst: KCarlyn Date: 6/7/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56226997 Instrument: MET05 Agilent ICP-MS Begun: 06-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	f0615032	X	RINSE			06-JUN-2006 18:11	1.0					2	
033	f0615033	X	RINSE			06-JUN-2006 18:17	1.0					2	
034	f0615034	BLANK	QC342079	113955	Filtra	06-JUN-2006 18:22	1.0	1.0	6		1	2	
035	f0615035	BS	QC342080	113955	Filtra	06-JUN-2006 18:28	1.0	1.0			1	2	
036	f0615036	BSD	QC342081	113955	Filtra	06-JUN-2006 18:42	1.0	1.0			1	2	
037	f0615037	CCV				06-JUN-2006 18:48	1.0	1.0			1	13 2	
038	f0615038	X	RINSE			06-JUN-2006 18:53	1.0					2	
039	f0615039	CCB				06-JUN-2006 19:04	1.0	1.0			1	2	
040	f0615040	X				06-JUN-2006 19:10	1.0					2	
041	f0615041	MSS	187020-001	113955	Filtra	06-JUN-2006 19:15	1.0	1.0	4		1	2	4:NA=133500
042	f0615042	SER	QC342084	113955	Filtra	06-JUN-2006 19:21	5.0	1.0			1	2	3:NA=28020.0
043	f0615043	MS	QC342082	113955	Filtra	06-JUN-2006 19:27	1.0	1.0	2		1	2	6:NA=142400
044	f0615044	MSD	QC342083	113955	Filtra	06-JUN-2006 19:32	1.0	1.0	1		1	2	5:NA=139100
045	f0615045	PDS	QC342085	113955	Filtra	06-JUN-2006 19:38	1.0	1.0	1		1	14 2	5:NA=136000
046	f0615046	X	RINSE			06-JUN-2006 19:43	1.0					2	
047	f0615047	SAMPLE	187020-002	113955	Filtra	06-JUN-2006 19:49	1.0	1.0	4		1	2	4:NA=111500
048	f0615048	SAMPLE	187020-003	113955	Filtra	06-JUN-2006 19:54	1.0	1.0	4		1	2	4:NA=92740.0
049	f0615049	SAMPLE	187020-004	113955	Filtra	06-JUN-2006 20:00	1.0	1.0	3		1	2	3:NA=37370.0
050	f0615050	SAMPLE	187020-005	113955	Filtra	06-JUN-2006 20:06	1.0	1.0	4		1	2	4:NA=84550.0
051	f0615051	SAMPLE	187020-006	113955	Filtra	06-JUN-2006 20:11	1.0	1.0	4		1	2	4:NA=84460.0
052	f0615052	X	RINSE			06-JUN-2006 20:17	1.0					2	
053	f0615053	CCV				06-JUN-2006 20:22	1.0	1.0			1	13 2	
054	f0615054	X	RINSE			06-JUN-2006 20:28	1.0					2	
055	f0615055	X				06-JUN-2006 20:33	1.0					2	
056	f0615056	CCB				06-JUN-2006 20:39	1.0	1.0			1	2	
057	f0615057	SAMPLE	187020-007	113955	Filtra	06-JUN-2006 20:45	1.0	1.0	4		1	2	4:NA=81030.0
058	f0615058	SAMPLE	187020-008	113955	Filtra	06-JUN-2006 20:50	1.0	1.0	4		1	2	4:NA=82040.0
059	f0615059	SAMPLE	187020-009	113955	Filtra	06-JUN-2006 20:56	1.0	1.0	3		1	2	3:NA=103800
060	f0615060	SAMPLE	187020-010	113955	Filtra	06-JUN-2006 21:01	1.0	1.0	3		1	2	3:NA=99720.0
061	f0615061	SAMPLE	187020-011	113955	Filtra	06-JUN-2006 21:07	1.0	1.0	1		1	2	1:NA=35050.0
062	f0615062	SAMPLE	187020-012	113955	Filtra	06-JUN-2006 21:13	1.0	1.0	3		1	2	3:NA=58700.0

Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3602 13=S3621 14=S3085

Analyst: K Carlyn Date: 6/7/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56226997 Instrument: MET05 Agilent ICP-MS Begun: 06-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
063	f0615063	SAMPLE	187020-013	113955	Filtra	06-JUN-2006 21:18	1.0	1.0	2		1	2	2:MG=84350.0
064	f0615064	SAMPLE	187020-014	113955	Filtra	06-JUN-2006 21:24	1.0	1.0	4		1	2	4:NA=203400
065	f0615065	SAMPLE	187020-015	113955	Filtra	06-JUN-2006 21:29	1.0	1.0	3		1	2	3:NA=228100
066	f0615066	SAMPLE	187020-011	113955	Water	06-JUN-2006 21:35	1.0	1.0	3		1	2	3:NA=33390.0
067	f0615067	X	RINSE			06-JUN-2006 21:40	1.0					2	
068	f0615068	CCV				06-JUN-2006 21:46	1.0	1.0			1	13 2	
069	f0615069	X	RINSE			06-JUN-2006 21:52	1.0					2	
070	f0615070	CCB				06-JUN-2006 21:57	1.0	1.0			1	2	
071	f0615071	X				06-JUN-2006 22:03	1.0					2	
072	f0615072	SAMPLE	187020-012	113955	Water	06-JUN-2006 22:09	1.0	1.0	6		1	2	5:NA=55760.0
073	f0615073	SAMPLE	187020-013	113955	Water	06-JUN-2006 22:14	1.0	1.0	5		1	2	4:MG=84280.0
074	f0615074	SAMPLE	187020-014	113955	Water	06-JUN-2006 22:20	1.0	1.0	7		1	2	6:NA=189000
075	f0615075	SAMPLE	187020-015	113955	Water	06-JUN-2006 22:25	1.0	1.0	9		1	2	8:NA=224500
076	f0615076	ICSA				06-JUN-2006 22:31	1.0	1.0			1	10 2	7:CA=281400
077	f0615077	ICSAB				06-JUN-2006 22:36	1.0	1.0			1	11 2	11:CA=272700
078	f0615078	X	RINSE			06-JUN-2006 22:42	1.0					2	
079	f0615079	X	RINSE			06-JUN-2006 22:47	1.0					2	
080	f0615080	CCV				06-JUN-2006 22:53	1.0	1.0	4		1	13 2	
081	f0615081	X	RINSE			06-JUN-2006 22:58	1.0					2	
082	f0615082	CCB				06-JUN-2006 23:04	1.0	1.0			1	2	
083	f0615083	X				06-JUN-2006 23:10	1.0					2	
084	f0615084	BLANK	QC342089	113957	Filtra	06-JUN-2006 23:15	1.0	1.0	1		1	2	
085	f0615085	BS	QC342090	113957	Filtra	06-JUN-2006 23:21	1.0	1.0	4		1	2	
086	f0615086	BSD	QC342091	113957	Filtra	06-JUN-2006 23:27	1.0	1.0	4		1	2	
087	f0615087	X	RINSE			06-JUN-2006 23:32	1.0					2	
088	f0615088	MSS	187112-002	113957	Filtra	06-JUN-2006 23:38	1.0	1.0	4		1	2	3:NA=55770.0
089	f0615089	SER	QC342094	113957	Filtra	06-JUN-2006 23:44	5.0	1.0	1		1	2	
090	f0615090	MS	QC342092	113957	Filtra	06-JUN-2006 23:49	1.0	1.0	1		1	2	3:NA=64380.0
091	f0615091	MSD	QC342093	113957	Filtra	06-JUN-2006 23:55	1.0	1.0	1		1	2	3:NA=67400.0
092	f0615092	PDS	QC342095	113957	Filtra	07-JUN-2006 00:00	1.0	1.0	1		1	14 2	3:NA=64650.0
093	f0615093	X	RINSE			07-JUN-2006 00:06	1.0					2	

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Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3602 13=S3621 14=S3085

Analyst: KCarlyn Date: 6/7/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56226997 Instrument: MET05 Agilent ICP-MS Begun: 06-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
094	f0615094	SAMPLE	187112-003	113957	Filtra	07-JUN-2006 00:11	1.0	1.0	4		1	2	3:MG=376100
095	f0615095	SAMPLE	187112-004	113957	Filtra	07-JUN-2006 00:17	1.0	1.0	4		1	2	4:MG=211300
096	f0615096	X	RINSE			07-JUN-2006 00:23	1.0					2	
097	f0615097	CCV				07-JUN-2006 00:28	1.0	1.0	1		1	13 2	
098	f0615098	X	RINSE			07-JUN-2006 00:34	1.0					2	
099	f0615099	X				07-JUN-2006 00:39	1.0					2	
.00	f0615100	CCB				07-JUN-2006 00:45	1.0	1.0			1	2	
.01	f0615101	SAMPLE	187112-005	113957	Water	07-JUN-2006 00:51	1.0	1.0	1		1	2	5:NA=149200
.02	f0615102	SAMPLE	187112-006	113957	Filtra	07-JUN-2006 00:56	1.0	1.0	3		1	2	2:NA=220300
.03	f0615103	SAMPLE	187112-007	113957	Filtra	07-JUN-2006 01:02	1.0	1.0	3		1	2	2:NA=238500
.04	f0615104	SAMPLE	187112-008	113957	Filtra	07-JUN-2006 01:08	1.0	1.0	3		1	2	2:NA=211400
.05	f0615105	SAMPLE	187112-009	113957	Filtra	07-JUN-2006 01:13	1.0	1.0	3		1	2	2:NA=228400
.06	f0615106	SAMPLE	187112-010	113957	Filtra	07-JUN-2006 01:19	1.0	1.0	3		1	2	2:NA=130800
.07	f0615107	SAMPLE	187112-011	113957	Filtra	07-JUN-2006 01:24	1.0	1.0	1		1	2	
.08	f0615108	SAMPLE	187112-012	113957	Filtra	07-JUN-2006 01:30	1.0	1.0	5		1	2	4:NA=210700
09	f0615109	SAMPLE	187112-013	113957	Water	07-JUN-2006 01:36	1.0	1.0	2		1	2	
10	f0615110	SAMPLE	187137-001	113957	Filtra	07-JUN-2006 01:41	1.0	1.0	1		1	2	
11	f0615111	X	RINSE			07-JUN-2006 01:47	1.0					2	
12	f0615112	CCV				07-JUN-2006 01:52	1.0	1.0	1		1	13 2	
13	f0615113	X	RINSE			07-JUN-2006 01:58	1.0					2	
14	f0615114	CCB				07-JUN-2006 02:04	1.0	1.0			1	2	
15	f0615115	X				07-JUN-2006 02:09	1.0					2	
16	f0615116	SAMPLE	187020-017	113957	Filtra	07-JUN-2006 02:15	1.0	1.0	6		1	2	3:NA=64160.0
17	f0615117	SAMPLE	187020-018	113957	Filtra	07-JUN-2006 02:21	1.0	1.0	6		1	2	3:NA=68590.0
18	f0615118	SAMPLE	187020-019	113957	Filtra	07-JUN-2006 02:26	1.0	1.0	6		1	2	3:NA=79910.0
19	f0615119	SAMPLE	187020-020	113957	Filtra	07-JUN-2006 02:32	1.0	1.0	6		1	2	3:NA=79470.0
20	f0615120	X	RINSE			07-JUN-2006 02:37	1.0					2	
21	f0615121	CCV				07-JUN-2006 02:43	1.0	1.0	3		1	13 2	
22	f0615122	X	RINSE			07-JUN-2006 02:49	1.0					2	
23	f0615123	X				07-JUN-2006 02:54	1.0					2	
24	f0615124	CCB				07-JUN-2006 03:00	1.0	1.0			1	2	

Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3602 13=S3621 14=S3085

Analyst: K Carlyn Date: 6/7/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56226997 Instrument: MET05 Agilent ICP-MS Begun: 06-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
.25	f0615125	ICSA				07-JUN-2006 03:06	1.0	1.0	1	10 2	7:CA=284700
.26	f0615126	ICSAB				07-JUN-2006 03:11	1.0	1.0	1	11 2	12:CA=282400

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tds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3602 13=S3621 14=S3085

Analyst: K Carlyon Date: 6/7/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Inst : MET08
Calnum : 86228386001
Units : ug/L

Date : 07-JUN-2006 14:26
X Axis : R

Reviewer: ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	060706ar.txt	86228386002	CRIM08	07-JUN-2006 14:30	S3580
L2	060706ar.txt	86228386003	CS100	07-JUN-2006 14:34	S3582
L3	060706ar.txt	86228386004	CS1K	07-JUN-2006 14:37	S3581
L4	060706ar.txt	86228386005	CS10K	07-JUN-2006 14:40	S3583
L5	060706ar.txt	86228386006	CS100K	07-JUN-2006 14:42	S3584

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	35.632	35.388	35.227	35.226		LOR0	0.00000	0.02839		35.368	1.000	0.995	
Arsenic	A	19.617	21.304	21.092	20.987		LOR0	0.00000	0.04765		20.750	1.000	0.995	
Barium	A	432.54	398.04	392.94	375.03		LOR0	0.00000	0.00267		399.64	1.000	0.995	
Beryllium	A	3414.2	3382.1	3379.0			LOR0	0.00000	2.96E-4		3391.8	1.000	0.995	
Boron	A	186.19		190.90	192.17		LOR0	0.00000	0.00520		189.75	1.000	0.995	
Cadmium	A	332.79	328.18	328.09	313.02		LOR0	0.00000	0.00319		325.52	1.000	0.995	
Chromium	A	81.487	82.089	82.001	79.203		LOR0	0.00000	0.01262		81.195	1.000	0.995	
Cobalt	A	109.20	107.99	108.71	106.62		LOR0	0.00000	0.00938		108.13	1.000	0.995	
Copper	A	669.55	635.63	635.19	622.05		LOR0	0.00000	0.00161		640.61	1.000	0.995	
Lead	A	53.641	50.224	50.381	48.596		LOR0	0.00000	0.02057		50.710	1.000	0.995	
Manganese	A	895.27	876.73	872.11	823.39		LOR0	0.00000	0.00121		866.88	1.000	0.995	
Molybdenum	A	37.365	38.398	38.497	37.735		LOR0	0.00000	0.02650		37.999	1.000	0.995	
Nickel	A	58.464	57.058	57.254	55.613		LOR0	0.00000	0.01798		57.097	1.000	0.995	
Selenium	A	18.471	21.904	22.125	22.037		LOR0	0.00000	0.04538		21.134	1.000	0.995	
Silver	A	388.25	391.08	396.30	402.92		LOR0	0.00000	0.00249		394.64	1.000	0.995	
Thallium	A	16.007	19.267	19.389	18.837		LOR0	0.00000	0.05307		18.375	1.000	0.995	
Tin	A	21.258	20.682	20.800	20.590		LOR0	0.00000	0.04856		20.833	1.000	0.995	
Titanium	A	944.09	981.23	974.90	894.59		LOR0	0.00000	0.00112		948.70	1.000	0.995	
Vanadium	A	130.68	120.48	121.09	121.88		LOR0	0.00000	0.00821		123.53	1.000	0.995	
Zinc	A	135.25	155.58	121.37	118.70		LOR0	0.00000	0.00842		132.72	1.000	0.995	
Aluminum	R	1.2010		1.2551	1.2193	1.2084	LOR0	0.00000	0.82749		1.2209	1.000	0.995	
Calcium	R	13.073		11.493	10.362	9.8324	LOR0	0.00000	0.10165		11.190	1.000	0.995	
Iron	R	7.7765		7.8341	7.6982	7.0793	LOR0	0.00000	0.14113		7.5970	1.000	0.995	
Magnesium	R	2.0883		2.0756	2.0317	1.9213	LOR0	0.00000	0.52019		2.0292	1.000	0.995	
Potassium	R	5.0136		5.1422	5.1748	5.1567	LOR0	0.00000	0.19392		5.1218	1.000	0.995	
Sodium	R	10.416		10.814	10.170	9.7199	LOR0	0.00000	0.10283		10.280	1.000	0.995	

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Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

86228386001

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/7/2006 2:26:44 PM
Data Type: Reprocessed on 6/7/2006 3:13:18 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	155.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	1564.1	278.66	17.82%	[0.00]	ug/L
Al 308.215 R	106.5	2.85	2.68%	[0.00]	ug/L
As 188.979	4.4	30.08	677.09%	[0.00]	ug/L
B 249.677	2340.3	75.22	3.21%	[0.00]	ug/L
Ba 233.527	-103.5	18.37	17.75%	[0.00]	ug/L
Be 313.107	2173.6	176.74	8.13%	[0.00]	ug/L
Ca 315.887 R	369.6	2.27	0.61%	[0.00]	ug/L
Cd 214.440	-7.1	9.01	127.19%	[0.00]	ug/L
Co 228.616	-231.8	10.24	4.42%	[0.00]	ug/L
Cr 267.716	-213.7	5.07	2.37%	[0.00]	ug/L
Cu 324.752	-468.3	51.00	10.89%	[0.00]	ug/L
Fe 238.204 R	82.5	2.83	3.43%	[0.00]	ug/L
K 766.490 R	-5879.4	273.47	4.65%	[0.00]	ug/L
Mg 279.077 R	-88.1	7.37	8.36%	[0.00]	ug/L
Mn 257.610	58.5	4.69	8.03%	[0.00]	ug/L
Mo 202.031	-18.7	6.89	36.95%	[0.00]	ug/L
Na 589.592 R	1276.6	85.94	6.73%	[0.00]	ug/L
Ni 231.604	324.6	13.34	4.11%	[0.00]	ug/L
Pb 220.353	-26.7	14.91	55.78%	[0.00]	ug/L
Sb 206.836	571.7	51.28	8.97%	[0.00]	ug/L
Se 196.026	-69.3	6.09	8.79%	[0.00]	ug/L
Ti 334.940 R	355.0	114.02	32.12%	[0.00]	ug/L
Tl 190.801	148.7	16.48	11.08%	[0.00]	ug/L
V 292.402	-1540.2	21.06	1.37%	[0.00]	ug/L
Zn 206.200	-1012.0	1.56	0.15%	[0.00]	ug/L
Sn 189.927	8.4	2.39	28.38%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 6/7/2006 2:30:46 PM
Data Type: Reprocessed on 6/7/2006 3:13:21 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	152.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	1626250.4	10929.96	0.67%	100.0	%
Y	242559.9	3791.12	1.56%	100.0	%
Ag 328.068†	1941.3	91.63	4.72%	[5.0]	ug/L
Al 308.215 R†	120.1	1.29	1.08%	[100]	ug/L
As 188.979†	98.1	18.52	18.88%	[5.0]	ug/L
B 249.677†	18619.0	199.27	1.07%	[100]	ug/L
Ba 233.527†	2162.7	20.43	0.94%	[5.0]	ug/L
Be 313.107†	6828.4	35.24	0.52%	[2.0]	ug/L
Ca 315.887 R†	2614.7	67.26	2.57%	[200]	ug/L
Cd 214.440†	1664.0	33.30	2.00%	[5.0]	ug/L
Co 228.616†	546.0	20.52	3.76%	[5.0]	ug/L
Cr 267.716†	407.4	7.92	1.94%	[5.0]	ug/L
Cu 324.752†	3347.8	123.77	3.70%	[5.0]	ug/L
Fe 238.204 R†	777.7	12.87	1.66%	[100]	ug/L
K 766.490 R†	2506.8	41.78	1.67%	[500]	ug/L
Mg 279.077 R†	417.7	2.26	0.54%	[200]	ug/L
Mn 257.610†	4476.3	47.29	1.06%	[5.0]	ug/L
Mo 202.031†	186.8	4.44	2.38%	[5.0]	ug/L
Na 589.592 R†	5208.0	169.54	3.26%	[500]	ug/L
Ni 231.604†	292.3	8.15	2.79%	[5.0]	ug/L
Pb 220.353†	160.9	13.26	8.24%	[3.0]	ug/L
Sb 206.836†	178.2	10.22	5.74%	[5.0]	ug/L
Se 196.026†	92.4	19.46	21.07%	[5.0]	ug/L
Ti 334.940 R†	9440.9	82.35	0.87%	[10]	ug/L
Tl 190.801†	80.0	4.71	5.89%	[5.0]	ug/L
V 292.402†	653.4	28.04	4.29%	[5.0]	ug/L
Zn 206.200†	2705.0	17.47	0.65%	[20]	ug/L
Sn 189.927†	850.3	17.24	2.03%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/7/2006 2:34:51 PM
Data Type: Reprocessed on 6/7/2006 3:13:22 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	1638572.6	2598.44	0.16%	100.8	%
Y	260163.7	2739.25	1.05%	107.3	%
Ag 328.068†	39108.1	145.14	0.37%	[100]	ug/L
As 188.979†	2130.4	39.22	1.84%	[100]	ug/L
Ba 233.527†	39803.9	58.52	0.15%	[100]	ug/L
Be 313.107†	338213.6	1845.47	0.55%	[100]	ug/L
Cd 214.440†	32818.1	88.23	0.27%	[100]	ug/L
Co 228.616†	10799.4	47.48	0.44%	[100]	ug/L
Cr 267.716†	8208.9	14.72	0.18%	[100]	ug/L
Cu 324.752†	63562.6	361.98	0.57%	[100]	ug/L
Mn 257.610†	87673.2	57.35	0.07%	[100]	ug/L
Mo 202.031†	3839.8	29.27	0.76%	[100]	ug/L
Ni 231.604†	5705.8	16.32	0.29%	[100]	ug/L
Pb 220.353†	5022.4	15.22	0.30%	[100]	ug/L
Sb 206.836†	3538.8	44.69	1.26%	[100]	ug/L
Se 196.026†	2190.4	47.74	2.18%	[100]	ug/L
Ti 334.940 R†	98122.6	387.63	0.40%	[100]	ug/L
Tl 190.801†	1926.7	15.13	0.79%	[100]	ug/L
V 292.402†	12048.5	50.28	0.42%	[100]	ug/L
Zn 206.200†	15558.2	92.40	0.59%	[100]	ug/L
Sn 189.927†	2068.2	7.26	0.35%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/7/2006 2:37:55 PM
Data Type: Reprocessed on 6/7/2006 3:13:23 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	155.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	1670031.0	6934.36	0.42%	102.7	%
Y	249594.1	9545.75	3.82%	102.9	%
Ag 328.068†	396300.8	590.00	0.15%	[1000]	ug/L
Al 308.215 R†	1255.1	110.41	8.80%	[1000]	ug/L
As 188.979†	21091.7	239.19	1.13%	[1000]	ug/L
B 249.677†	190897.6	846.49	0.44%	[1000]	ug/L
Ba 233.527†	392942.7	2170.80	0.55%	[1000]	ug/L
Be 313.107†	3378971.4	10842.56	0.32%	[1000]	ug/L
Ca 315.887 R†	11492.8	576.61	5.02%	[1000]	ug/L
Cd 214.440†	328090.4	1726.39	0.53%	[1000]	ug/L
Co 228.616†	108712.8	1121.40	1.03%	[1000]	ug/L
Cr 267.716†	82001.3	846.27	1.03%	[1000]	ug/L
Cu 324.752†	635190.3	1417.79	0.22%	[1000]	ug/L
Fe 238.204 R†	7834.1	372.59	4.76%	[1000]	ug/L
K 766.490 R†	5142.2	121.18	2.36%	[1000]	ug/L
Mg 279.077 R†	2075.6	112.31	5.41%	[1000]	ug/L
Mn 257.610†	872109.5	3692.88	0.42%	[1000]	ug/L
Mo 202.031†	38497.1	356.18	0.93%	[1000]	ug/L
Na 589.592 R†	10813.6	559.14	5.17%	[1000]	ug/L
Ni 231.604†	57254.3	584.27	1.02%	[1000]	ug/L
Pb 220.353†	50380.7	671.78	1.33%	[1000]	ug/L
Sb 206.836†	35226.8	282.50	0.80%	[1000]	ug/L
Se 196.026†	22124.9	399.41	1.81%	[1000]	ug/L
Ti 334.940 R†	974902.7	4007.52	0.41%	[1000]	ug/L
Tl 190.801†	19389.1	291.24	1.50%	[1000]	ug/L
V 292.402†	121093.0	1596.99	1.32%	[1000]	ug/L
Zn 206.200†	121365.8	1114.90	0.92%	[1000]	ug/L
Sn 189.927†	20800.0	269.56	1.30%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/7/2006 2:40:09 PM
Data Type: Reprocessed on 6/7/2006 3:13:24 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	155.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	1673780.8	11835.42	0.71%	102.9	%
Y	252484.2	6642.56	2.63%	104.1	%
Ag 328.068†	805834.8	5920.50	0.73%	[2000]	ug/L
Al 308.215 R†	12192.8	131.64	1.08%	[10000]	ug/L
As 188.979†	209866.2	774.08	0.37%	[10000]	ug/L
B 249.677†	1921707.5	19951.75	1.04%	[10000]	ug/L
Ba 233.527†	3750256.4	15734.69	0.42%	[10000]	ug/L
Ca 315.887 R†	103616.6	1171.10	1.13%	[10000]	ug/L
Cd 214.440†	3130174.6	6580.23	0.21%	[10000]	ug/L
Co 228.616†	1066209.2	10693.08	1.00%	[10000]	ug/L
Cr 267.716†	792032.0	5456.62	0.69%	[10000]	ug/L
Cu 324.752†	6220502.7	23453.76	0.38%	[10000]	ug/L
Fe 238.204 R†	76981.8	662.17	0.86%	[10000]	ug/L
K 766.490 R†	51747.7	846.22	1.64%	[10000]	ug/L
Mg 279.077 R†	20317.4	193.92	0.95%	[10000]	ug/L
Mn 257.610†	8233924.0	21619.75	0.26%	[10000]	ug/L
Mo 202.031†	377349.4	3002.34	0.80%	[10000]	ug/L
Na 589.592 R†	101704.0	1145.41	1.13%	[10000]	ug/L
Ni 231.604†	556128.4	4022.06	0.72%	[10000]	ug/L
Pb 220.353†	485956.7	3311.48	0.68%	[10000]	ug/L
Sb 206.836†	352263.5	2996.51	0.85%	[10000]	ug/L
Se 196.026†	220369.1	628.13	0.29%	[10000]	ug/L
Ti 334.940 R†	8945873.6	40471.58	0.45%	[10000]	ug/L
Tl 190.801†	188374.6	844.60	0.45%	[10000]	ug/L
V 292.402†	1218765.0	7177.15	0.59%	[10000]	ug/L
Zn 206.200†	1187036.6	17368.12	1.46%	[10000]	ug/L
Sn 189.927†	205896.1	1321.22	0.64%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 6/7/2006 2:42:57 PM
Data Type: Reprocessed on 6/7/2006 3:13:25 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	1590737.8	14999.88	0.94%	97.82	%
Y	239375.7	4138.68	1.73%	98.69	%
Al 308.215 R†	120835.7	367.51	0.30%	[100000]	ug/L
Ca 315.887 R†	983243.9	3036.17	0.31%	[100000]	ug/L
Fe 238.204 R†	707926.7	2401.83	0.34%	[100000]	ug/L
K 766.490 R†	515670.3	1663.13	0.32%	[100000]	ug/L
Mg 279.077 R†	192125.5	787.13	0.41%	[100000]	ug/L
Na 589.592 R†	971990.3	5261.84	0.54%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	401.6	0.00000	0.999978	
Al 308.215 R	4	Lin Thru 0	0.0	1.208	0.00000	1.000000	
As 188.979	4	Lin Thru 0	0.0	20.99	0.00000	1.000000	
B 249.677	3	Lin Thru 0	0.0	192.2	0.00000	1.000000	
Ba 233.527	4	Lin Thru 0	0.0	375.2	0.00000	0.999989	
Be 313.107	3	Lin Thru 0	0.0	3379	0.00000	1.000000	
Ca 315.887 R	4	Lin Thru 0	0.0	9.838	0.00000	0.999984	
Cd 214.440	4	Lin Thru 0	0.0	313.2	0.00000	0.999989	
Co 228.616	4	Lin Thru 0	0.0	106.6	0.00000	0.999998	
Cr 267.716	4	Lin Thru 0	0.0	79.23	0.00000	0.999994	
Cu 324.752	4	Lin Thru 0	0.0	622.2	0.00000	0.999998	
Fe 238.204 R	4	Lin Thru 0	0.0	7.085	0.00000	0.999962	
K 766.490 R	4	Lin Thru 0	0.0	5.157	0.00000	1.000000	
Mg 279.077 R	4	Lin Thru 0	0.0	1.922	0.00000	0.999983	
Mn 257.610	4	Lin Thru 0	0.0	823.9	0.00000	0.999983	
Mo 202.031	4	Lin Thru 0	0.0	37.74	0.00000	0.999998	
Na 589.592 R	4	Lin Thru 0	0.0	9.724	0.00000	0.999989	
Ni 231.604	4	Lin Thru 0	0.0	55.63	0.00000	0.999996	
Pb 220.353	4	Lin Thru 0	0.0	48.61	0.00000	0.999993	
Sb 206.836	4	Lin Thru 0	0.0	35.23	0.00000	1.000000	
Se 196.026	4	Lin Thru 0	0.0	22.04	0.00000	1.000000	
Ti 334.940 R	4	Lin Thru 0	0.0	895.4	0.00000	0.999960	
Tl 190.801	4	Lin Thru 0	0.0	18.84	0.00000	0.999996	
V 292.402	4	Lin Thru 0	0.0	121.9	0.00000	1.000000	
Zn 206.200	4	Lin Thru 0	0.0	118.7	0.00000	0.999993	
Sn 189.927	4	Lin Thru 0	0.0	20.59	0.00000	0.999999	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET08
Seqnum : 86228386007
Cal : 86228386001
Standards: S3541

File : 060706ar.txt
Caldate: 07-JUN-2006

IDF : 1.0
Time : 07-JUN-2006 14:45

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	35.368	35.255	5000	5004	ug/L	0	10	
Arsenic	A	20.750	21.289	5000	5072	ug/L	1	10	
Barium	A	399.64	385.30	5000	5134	ug/L	3	10	
Beryllium	A	3391.8	3417.3	500.0	505.7	ug/L	1	10	
Boron	A	189.75	195.33	5000	5083	ug/L	2	10	
Cadmium	A	325.52	320.74	5000	5121	ug/L	2	10	
Chromium	A	81.195	79.115	5000	4993	ug/L	0	10	
Cobalt	A	108.13	104.62	5000	4895	ug/L	-2	10	
Copper	A	640.61	623.52	5000	5011	ug/L	0	10	
Lead	A	50.710	48.045	5000	4941	ug/L	-1	10	
Manganese	A	866.88	833.05	5000	5056	ug/L	1	10	
Molybdenum	A	37.999	37.911	5000	5022	ug/L	0	10	
Nickel	A	57.097	54.835	5000	4929	ug/L	-1	10	
Selenium	A	21.134	22.147	5000	5025	ug/L	0	10	
Silver	A	394.64	390.78	1000	973.1	ug/L	-3	10	
Thallium	A	18.375	18.675	5000	4955	ug/L	-1	10	
Tin	A	20.833	20.412	5000	4956	ug/L	-1	10	
Titanium	A	948.70	925.16	5000	5166	ug/L	3	10	
Vanadium	A	123.53	120.98	5000	4964	ug/L	-1	10	
Zinc	A	132.72	117.73	5000	4958	ug/L	-1	10	
Aluminum	R	1.2209	1.1822	20000	19570	ug/L	-2	10	
Calcium	R	11.190	9.8000	20000	19920	ug/L	0	10	
Iron	R	7.5970	7.1341	20000	20140	ug/L	1	10	
Magnesium	R	2.0292	1.9128	20000	19900	ug/L	0	10	
Potassium	R	5.1218	4.9867	20000	19340	ug/L	-3	10	
Sodium	R	10.280	9.7300	20000	20010	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1653402	1.67

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86228386027 File : 060706ar.txt Time : 07-JUN-2006 16:07
Cal : 86228386001 Caldate: 07-JUN-2006
Standards: S3543

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	35.368	36.551	5000	5188	ug/L	4	10	
Arsenic	A	20.750	22.022	5000	5246	ug/L	5	10	
Barium	A	399.64	390.88	5000	5209	ug/L	4	10	
Beryllium	A	3391.8	3462.5	500.0	512.4	ug/L	2	10	
Boron	A	189.75	197.59	5000	5141	ug/L	3	10	
Cadmium	A	325.52	330.03	5000	5269	ug/L	5	10	
Chromium	A	81.195	81.150	5000	5121	ug/L	2	10	
Cobalt	A	108.13	106.75	5000	4995	ug/L	0	10	
Copper	A	640.61	628.88	5000	5054	ug/L	1	10	
Lead	A	50.710	49.637	5000	5105	ug/L	2	10	
Manganese	A	866.88	843.57	5000	5120	ug/L	2	10	
Molybdenum	A	37.999	38.750	5000	5133	ug/L	3	10	
Nickel	A	57.097	56.650	5000	5092	ug/L	2	10	
Selenium	A	21.134	23.145	5000	5251	ug/L	5	10	
Silver	A	394.64	398.38	1000	992.1	ug/L	-1	10	
Thallium	A	18.375	19.093	5000	5066	ug/L	1	10	
Tin	A	20.833	21.183	5000	5144	ug/L	3	10	
Titanium	A	948.70	933.13	5000	5211	ug/L	4	10	
Vanadium	A	123.53	122.36	5000	5020	ug/L	0	10	
Zinc	A	132.72	121.55	5000	5119	ug/L	2	10	
Aluminum	R	1.2209	1.1629	20000	19250	ug/L	-4	10	
Calcium	R	11.190	9.6799	20000	19680	ug/L	-2	10	
Iron	R	7.5970	6.9003	20000	19480	ug/L	-3	10	
Magnesium	R	2.0292	1.8933	20000	19700	ug/L	-2	10	
Potassium	R	5.1218	5.2280	20000	20280	ug/L	1	10	
Sodium	R	10.280	10.100	20000	20770	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1677481	3.15

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86228386041 File : 060706ar.txt Time : 07-JUN-2006 17:02
Cal : 86228386001 Caldate: 07-JUN-2006
Standards: S3543

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	35.368	36.467	5000	5176	ug/L	4	10	
Arsenic	A	20.750	21.978	5000	5236	ug/L	5	10	
Barium	A	399.64	391.64	5000	5219	ug/L	4	10	
Beryllium	A	3391.8	3480.0	500.0	515.0	ug/L	3	10	
Boron	A	189.75	198.21	5000	5157	ug/L	3	10	
Cadmium	A	325.52	332.55	5000	5309	ug/L	6	10	
Chromium	A	81.195	80.443	5000	5076	ug/L	2	10	
Cobalt	A	108.13	107.35	5000	5023	ug/L	0	10	
Copper	A	640.61	628.42	5000	5050	ug/L	1	10	
Lead	A	50.710	49.593	5000	5101	ug/L	2	10	
Manganese	A	866.88	844.92	5000	5128	ug/L	3	10	
Molybdenum	A	37.999	38.487	5000	5099	ug/L	2	10	
Nickel	A	57.097	56.358	5000	5065	ug/L	1	10	
Selenium	A	21.134	23.126	5000	5247	ug/L	5	10	
Silver	A	394.64	394.65	1000	982.8	ug/L	-2	10	
Thallium	A	18.375	18.985	5000	5038	ug/L	1	10	
Tin	A	20.833	21.128	5000	5130	ug/L	3	10	
Titanium	A	948.70	933.81	5000	5215	ug/L	4	10	
Vanadium	A	123.53	122.46	5000	5024	ug/L	0	10	
Zinc	A	132.72	122.54	5000	5160	ug/L	3	10	
Aluminum	R	1.2209	1.1255	20000	18630	ug/L	-7	10	
Calcium	R	11.190	9.4163	20000	19140	ug/L	-4	10	
Iron	R	7.5970	6.6377	20000	18740	ug/L	-6	10	
Magnesium	R	2.0292	1.8427	20000	19170	ug/L	-4	10	
Potassium	R	5.1218	5.2757	20000	20460	ug/L	2	10	
Sodium	R	10.280	9.9797	20000	20520	ug/L	3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1677193	3.13

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 86228386055
Cal : 86228386001
Standards: S3543

File : 060706ar.txt
Caldate: 07-JUN-2006

IDF : 1.0
Time : 07-JUN-2006 17:58

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	35.368	36.682	5000	5207	ug/L	4	10	
Arsenic	A	20.750	22.410	5000	5339	ug/L	7	10	
Barium	A	399.64	392.46	5000	5230	ug/L	5	10	
Beryllium	A	3391.8	3489.6	500.0	516.4	ug/L	3	10	
Boron	A	189.75	198.49	5000	5165	ug/L	3	10	
Cadmium	A	325.52	335.31	5000	5353	ug/L	7	10	
Chromium	A	81.195	81.222	5000	5126	ug/L	3	10	
Cobalt	A	108.13	107.76	5000	5042	ug/L	1	10	
Copper	A	640.61	627.83	5000	5045	ug/L	1	10	
Lead	A	50.710	50.284	5000	5172	ug/L	3	10	
Manganese	A	866.88	848.36	5000	5149	ug/L	3	10	
Molybdenum	A	37.999	39.051	5000	5173	ug/L	3	10	
Nickel	A	57.097	56.943	5000	5118	ug/L	2	10	
Selenium	A	21.134	23.509	5000	5334	ug/L	7	10	
Silver	A	394.64	397.47	1000	989.8	ug/L	-1	10	
Thallium	A	18.375	19.180	5000	5089	ug/L	2	10	
Tin	A	20.833	21.390	5000	5194	ug/L	4	10	
Titanium	A	948.70	933.05	5000	5210	ug/L	4	10	
Vanadium	A	123.53	122.44	5000	5023	ug/L	0	10	
Zinc	A	132.72	123.68	5000	5208	ug/L	4	10	
Aluminum	R	1.2209	1.1103	20000	18380	ug/L	-8	10	
Calcium	R	11.190	9.2621	20000	18830	ug/L	-6	10	
Iron	R	7.5970	6.5463	20000	18480	ug/L	-8	10	
Magnesium	R	2.0292	1.8257	20000	18990	ug/L	-5	10	
Potassium	R	5.1218	5.2903	20000	20520	ug/L	3	10	
Sodium	R	10.280	9.9424	20000	20450	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1660237	2.09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 86228386065
Cal : 86228386001
Standards: S3543

File : 060706ar.txt
Caldate: 07-JUN-2006

IDF : 1.0
Time : 07-JUN-2006 18:38

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	35.368	37.722	5000	5354	ug/L	7	10	
Arsenic	A	20.750	22.663	5000	5399	ug/L	8	10	
Barium	A	399.64	394.68	5000	5259	ug/L	5	10	
Beryllium	A	3391.8	3492.7	500.0	516.8	ug/L	3	10	
Boron	A	189.75	199.80	5000	5199	ug/L	4	10	
Cadmium	A	325.52	337.49	5000	5388	ug/L	8	10	
Chromium	A	81.195	82.170	5000	5185	ug/L	4	10	
Cobalt	A	108.13	108.42	5000	5073	ug/L	1	10	
Copper	A	640.61	630.84	5000	5070	ug/L	1	10	
Lead	A	50.710	50.670	5000	5212	ug/L	4	10	
Manganese	A	866.88	850.73	5000	5163	ug/L	3	10	
Molybdenum	A	37.999	39.325	5000	5210	ug/L	4	10	
Nickel	A	57.097	57.752	5000	5191	ug/L	4	10	
Selenium	A	21.134	23.926	5000	5428	ug/L	9	10	
Silver	A	394.64	401.53	1000	999.9	ug/L	0	10	
Thallium	A	18.375	19.364	5000	5138	ug/L	3	10	
Tin	A	20.833	21.744	5000	5280	ug/L	6	10	
Titanium	A	948.70	939.69	5000	5247	ug/L	5	10	
Vanadium	A	123.53	123.04	5000	5048	ug/L	1	10	
Zinc	A	132.72	124.47	5000	5241	ug/L	5	10	
Aluminum	R	1.2209	1.1168	20000	18480	ug/L	-8	10	
Calcium	R	11.190	9.2832	20000	18870	ug/L	-6	10	
Iron	R	7.5970	6.5095	20000	18370	ug/L	-8	10	
Magnesium	R	2.0292	1.8136	20000	18870	ug/L	-6	10	
Potassium	R	5.1218	5.3675	20000	20820	ug/L	4	10	
Sodium	R	10.280	10.095	20000	20760	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1677566	3.16

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86228386008 File : 060706ar.txt Time : 07-JUN-2006 14:59
Cal : 86228386001 Caldate: 07-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	ND	5.000	0.4303	ug/L	
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	[0.7174]	5.000	0.4217	ug/L	!ib
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1645781	1.20

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86228386029 File : 060706ar.txt Time : 07-JUN-2006 16:13
Cal : 86228386001 Caldate: 07-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[0.8011]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1597558	-1.76

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86228386043 File : 060706ar.txt Time : 07-JUN-2006 17:08
Cal : 86228386001 Caldate: 07-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[1.490]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1652232	1.60

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86228386057 File : 060706ar.txt Time : 07-JUN-2006 18:04
Cal : 86228386001 Caldate: 07-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[1.298]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1655139	1.78

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86228386067 File : 060706ar.txt Time : 07-JUN-2006 18:44
Cal : 86228386001 Caldate: 07-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[1.340]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[0.9716]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1666723	2.49

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86228386009 File : 060706ar.txt Time : 07-JUN-2006 15:03
Cal : 86228386001 Caldate: 07-JUN-2006
Standards: S3254

Analyte	Ch	Quant	RL	Units	Flags
Antimony	A	[-4.527]	5.000	ug/L	
Arsenic	A	[0.7077]	5.000	ug/L	
Barium	A	[1.589]	5.000	ug/L	
Beryllium	A	[-0.1432]	2.000	ug/L	
Boron	A	[-3.684]	100.0	ug/L	
Cadmium	A	[2.603]	5.000	ug/L	
Cobalt	A	[-2.164]	5.000	ug/L	
Lead	A	[-1.357]	3.000	ug/L	
Molybdenum	A	[-0.6419]	5.000	ug/L	
Selenium	A	[0.3482]	5.000	ug/L	
Silver	A	[-1.234]	5.000	ug/L	
Thallium	A	[-2.642]	5.000	ug/L	
Tin	A	[-3.329]	40.00	ug/L	
Zinc	A	[11.15]	20.00	ug/L	
Potassium	R	[53.55]	500.0	ug/L	
Sodium	R	[17.66]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19480	ug/L	97
Copper	A	20000	21690	ug/L	108
Manganese	A	20000	18550	ug/L	93
Nickel	A	20000	19010	ug/L	95
Titanium	A	20000	17230	ug/L	86
Vanadium	A	20000	20680	ug/L	103
Aluminum	R	500000	520600	ug/L	104
Calcium	R	500000	513900	ug/L	103
Iron	R	200000	200900	ug/L	100
Magnesium	R	500000	524600	ug/L	105

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1518949	-6.60

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86228386064 File : 060706ar.txt Time : 07-JUN-2006 18:35
Cal : 86228386001 Caldate: 07-JUN-2006
Standards: S3527

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	539.2	ug/L	8	20	
Arsenic	A	500.0	556.5	ug/L	11	20	
Barium	A	500.0	542.2	ug/L	8	20	
Beryllium	A	500.0	527.3	ug/L	5	20	
Cadmium	A	1000	1055	ug/L	5	20	
Chromium	A	500.0	531.7	ug/L	6	20	
Cobalt	A	500.0	491.4	ug/L	-2	20	
Copper	A	500.0	530.2	ug/L	6	20	
Lead	A	1000	996.2	ug/L	0	20	
Manganese	A	500.0	534.4	ug/L	7	20	
Molybdenum	A	500.0	537.0	ug/L	7	20	
Nickel	A	1000	1007	ug/L	1	20	
Selenium	A	500.0	515.3	ug/L	3	20	
Silver	A	1000	1095	ug/L	10	20	
Thallium	A	500.0	484.1	ug/L	-3	20	
Titanium	A	20000	20020	ug/L	0		
Vanadium	A	500.0	553.3	ug/L	11	20	
Zinc	A	1000	1014	ug/L	1	20	
Aluminum	R	500000	494900	ug/L	-1		
Calcium	R	500000	470700	ug/L	-6		
Iron	R	200000	178800	ug/L	-11		
Magnesium	R	500000	484000	ug/L	-3		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1519613	-6.56

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86228386 Instrument: MET08 PE ICP Begun: 07-JUN-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	060706ar	ICALBLK				07-JUN-2006 14:26	1.0	1.0					
002	060706ar	ICAL	CRIM08			07-JUN-2006 14:30	1.0	1.0				1	
003	060706ar	ICAL	CS100			07-JUN-2006 14:34	1.0	1.0				2	
004	060706ar	ICAL	CS1K			07-JUN-2006 14:37	1.0	1.0				3	
005	060706ar	ICAL	CS10K			07-JUN-2006 14:40	1.0	1.0				4	
006	060706ar	ICAL	CS100K			07-JUN-2006 14:42	1.0	1.0				5	
007	060706ar	ICV				07-JUN-2006 14:45	1.0	1.0			5000	6	
008	060706ar	ICB				07-JUN-2006 14:59	1.0	1.0			5000		
009	060706ar	ICSA				07-JUN-2006 15:03	1.0	1.0			5000	7	10:MG=524576
010	060706ar	ICSAB				07-JUN-2006 15:14	1.0	1.0			5000	8	5:AL=543439
011	060706ar	BLANK	QC342089	113957	Filtra	07-JUN-2006 15:17	1.0	1.0			5000		
012	060706ar	BS	QC342090	113957	Filtra	07-JUN-2006 15:21	1.0	1.0			5000		
013	060706ar	X	QC342091	113957	Filtra	07-JUN-2006 15:24	1.0	1.0		1	5000		
014	060706ar	X	QC342091	113957	Filtra	07-JUN-2006 15:27	1.0						
015	060706ar	X	QC342091	113957	Filtra	07-JUN-2006 15:30	1.0	1.0	1	1	5000		338
016	060706ar	X	QC342091	113957	Filtra	07-JUN-2006 15:33	1.0	1.0	1	1	5000		
017	060706ar	X	QC342091	113957	Filtra	07-JUN-2006 15:36	1.0						
018	060706ar	X	QC342091	113957	Filtra	07-JUN-2006 15:40	1.0						
019	060706ar	MSS	187112-002	113957	Filtra	07-JUN-2006 15:44	1.0	1.0			5000		
020	060706ar	MS	QC342092	113957	Filtra	07-JUN-2006 15:48	1.0	1.0		1	5000		
021	060706ar	MSD	QC342093	113957	Filtra	07-JUN-2006 15:50	1.0	1.0		1	5000		
022	060706ar	SER	QC342094	113957	Filtra	07-JUN-2006 15:52	5.0	1.0			5000		
023	060706ar	MS	QC342092	113957	Filtra	07-JUN-2006 15:57	1.0	1.0			5000		
024	060706ar	MSD	QC342093	113957	Filtra	07-JUN-2006 15:59	1.0	1.0		1	5000		
025	060706ar	PDS	QC342095	113957	Filtra	07-JUN-2006 16:01	1.0	1.0			5000	9 10	
026	060706ar	X	RINSE			07-JUN-2006 16:03	1.0						
027	060706ar	CCV				07-JUN-2006 16:07	1.0	1.0			5000	11	
028	060706ar	X	FLUSH			07-JUN-2006 16:10	1.0						
029	060706ar	CCB				07-JUN-2006 16:13	1.0	1.0			5000		
030	060706ar	SAMPLE	187112-003	113957	Filtra	07-JUN-2006 16:17	1.0	1.0	3		5000		3:MG=360360
031	060706ar	SAMPLE	187112-004	113957	Filtra	07-JUN-2006 16:22	1.0	1.0	1		5000		1:MG=209406

Stds used: 1=S3580 2=S3582 3=S3581 4=S3583 5=S3584 6=S3541 7=S3254 8=S3527 9=S1792 10=S1793 11=S3543

Analyst: AH Date: 6/7/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86228386 Instrument: MET08 PE ICP Begun: 07-JUN-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	060706ar	SAMPLE	187112-005	113957	Water	07-JUN-2006 16:26	1.0	1.0		5000	1:NA=147912	
033	060706ar	SAMPLE	187112-006	113957	Filtra	07-JUN-2006 16:29	1.0	1.0	1	5000	1:NA=225061	
034	060706ar	SAMPLE	187112-007	113957	Filtra	07-JUN-2006 16:33	1.0	1.0	1	5000	1:NA=230883	
035	060706ar	SAMPLE	187112-008	113957	Filtra	07-JUN-2006 16:37	1.0	1.0	1	5000	1:NA=212196	
036	060706ar	SAMPLE	187112-009	113957	Filtra	07-JUN-2006 16:42	1.0	1.0	2	5000	1:NA=252767	
037	060706ar	SAMPLE	187112-009	113957	Filtra	07-JUN-2006 16:46	1.0	1.0	1	5000	1:NA=249409	
038	060706ar	SAMPLE	187112-010	113957	Filtra	07-JUN-2006 16:50	1.0	1.0	1	5000	1:NA=131822	
039	060706ar	SAMPLE	187112-011	113957	Filtra	07-JUN-2006 16:54	1.0	1.0		5000		
040	060706ar	X	RINSE			07-JUN-2006 16:58	1.0					
041	060706ar	CCV				07-JUN-2006 17:02	1.0	1.0		5000	11	
042	060706ar	X	FLUSH			07-JUN-2006 17:05	1.0					
043	060706ar	CCB				07-JUN-2006 17:08	1.0	1.0		5000		
044	060706ar	SAMPLE	187112-012	113957	Filtra	07-JUN-2006 17:12	1.0	1.0	1	5000	1:NA=221138	
045	060706ar	SAMPLE	187112-013	113957	Water	07-JUN-2006 17:17	1.0	1.0		5000		
046	060706ar	SAMPLE	187137-001	113957	Filtra	07-JUN-2006 17:21	1.0	1.0		5000		339
047	060706ar	SAMPLE	187020-017	113957	Filtra	07-JUN-2006 17:25	1.0	1.0		5000		
048	060706ar	SAMPLE	187020-018	113957	Filtra	07-JUN-2006 17:29	1.0	1.0		5000		
049	060706ar	SAMPLE	187020-019	113957	Filtra	07-JUN-2006 17:33	1.0	1.0		5000		
050	060706ar	SAMPLE	187020-020	113957	Filtra	07-JUN-2006 17:37	1.0	1.0		5000		
051	060706ar	SAMPLE	187112-003	113957	Filtra	07-JUN-2006 17:41	10.0	1.0		5000		
052	060706ar	SAMPLE	187112-004	113957	Filtra	07-JUN-2006 17:46	5.0	1.0		5000		
053	060706ar	SAMPLE	187112-006	113957	Filtra	07-JUN-2006 17:50	5.0	1.0		5000		
054	060706ar	X	RINSE			07-JUN-2006 17:54	1.0					
055	060706ar	CCV				07-JUN-2006 17:58	1.0	1.0		5000	11	
056	060706ar	X	FLUSH			07-JUN-2006 18:00	1.0					
057	060706ar	CCB				07-JUN-2006 18:04	1.0	1.0		5000		
058	060706ar	SAMPLE	187112-007	113957	Filtra	07-JUN-2006 18:08	5.0	1.0		5000		
059	060706ar	SAMPLE	187112-008	113957	Filtra	07-JUN-2006 18:12	5.0	1.0		5000		
060	060706ar	SAMPLE	187112-009	113957	Filtra	07-JUN-2006 18:16	5.0	1.0		5000		
061	060706ar	SAMPLE	187112-010	113957	Filtra	07-JUN-2006 18:21	5.0	1.0		5000		
062	060706ar	SAMPLE	187112-012	113957	Filtra	07-JUN-2006 18:25	5.0	1.0		5000		

Stds used: 1=S3580 2=S3582 3=S3581 4=S3583 5=S3584 6=S3541 7=S3254 8=S3527 9=S1792 10=S1793 11=S3543

Analyst: AH Date: 6/7/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86228386 Instrument: MET08 PE ICP Begun: 07-JUN-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
063	060706ar	BSD	QC342091	113957	Filtra	07-JUN-2006 18:29	1.0	1.0	5000		
064	060706ar	ICSAB				07-JUN-2006 18:35	1.0	1.0	5000	8	5:AL=494873
065	060706ar	CCV				07-JUN-2006 18:38	1.0	1.0	5000	11	
066	060706ar	X	FLUSH			07-JUN-2006 18:40	1.0				
067	060706ar	CCB				07-JUN-2006 18:44	1.0	1.0	5000		

340

Stds used: 1=S3580 2=S3582 3=S3581 4=S3583 5=S3584 6=S3541 7=S3254 8=S3527 9=S1792 10=S1793 11=S3543

Analyst: [signature] Date: 6/7/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56228694001
Units : ug/L

Date : 07-JUN-2006 19:46
X Axis : R

Reviewer: ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	f0719004	56228694004	CS1	07-JUN-2006 19:51	S3608
L2	f0719005	56228694005	CS2	07-JUN-2006 19:57	S3609
L3	f0719006	56228694006	CS3	07-JUN-2006 20:03	S3610
L4	f0719007	56228694007	CS4	07-JUN-2006 20:08	S3611
L5	f0719008	56228694008	CS5	07-JUN-2006 20:14	S3605
L6	f0719009	56228694009	CS6	07-JUN-2006 20:19	S3606

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		3.2307	1.9676	0.5528	0.4369	0.4865	BLNK	-2.7924	2.13381		1.3349	0.996	0.995	
Antimony	0.2660	0.2441	0.2175	0.1986	0.2009	0.1997	BLNK	-0.0832	5.00444		0.2211	1.000	0.995	
Arsenic		0.3776	0.4483	0.3695	0.3636	0.3605	BLNK	-0.1786	2.77213		0.3839	1.000	0.995	
Barium	0.0949	0.1022	0.0888	0.0838	0.0834	0.0834	BLNK	-0.0593	11.9986		0.0894	1.000	0.995	
Beryllium	0.1048	0.1063	0.1021	0.0954	0.0980	0.0988	BLNK	-0.0387	10.1401		0.1009	1.000	0.995	
Cadmium	0.6145	0.4633	0.4130	0.3770	0.3494	0.3358	BLNK	-0.1651	2.95629		0.4255	1.000	0.995	
Calcium		0.0263	0.0266	0.0158	0.0159	0.0158	BLNK	-31.445	63.3776		0.0201	1.000	0.995	
Chromium		8.1442	5.5257	3.2547	3.0112	3.1506	BLNK	-0.7195	0.32163		4.6173	0.999	0.995	
Cobalt	3.6834	3.6374	3.4360	3.3171	3.2604	3.4787	BLNK	-0.0211	0.29118		3.4688	0.999	0.995	
Copper		1.2606	1.1459	0.8091	0.7592	0.7491	BLNK	-0.3772	1.33425		0.9448	1.000	0.995	
Iron		0.1371	0.1087	0.0812	0.0854	0.0828	BLNK	-32.811	12.0316		0.0990	1.000	0.995	
Lead	1.0326	0.9226	0.8578	0.8281	0.8434	0.8255	BLNK	-0.0540	1.20653		0.8850	1.000	0.995	
Magnesium		0.0554	0.0539	0.0522	0.0554	0.0568	BLNK	-1.5279	17.6975		0.0547	1.000	0.995	
Manganese	5.5251	4.8238	4.4929	3.9287	3.8499	4.0757	BLNK	-0.0795	0.24824		4.4493	0.999	0.995	
Molybdenum		0.8629	0.8396	0.7586	0.7390	0.7333	BLNK	-0.0454	1.36187		0.7867	1.000	0.995	
Nickel	1.5247	1.0962	0.9684	0.7507	0.7087	0.6965	BLNK	-0.2572	1.43282		0.9575	1.000	0.995	
Potassium		1.4815	1.0791	0.5745	0.5161	0.5159	BLNK	-92.625	1.94879		0.8334	1.000	0.995	
Selenium		0.0353	0.0388	0.0287	0.0282	0.0274	BLNK	-0.3183	36.3998		0.0317	1.000	0.995	
Silver	1.9781	1.8418	1.7996	1.7082	1.6894	1.6327	BLNK	-0.0225	0.60828		1.7750	1.000	0.995	
Sodium		0.9656	0.8690	0.6202	0.6055	0.6228	BLNK	-28.542	1.61750		0.7366	1.000	0.995	
Thallium		0.6750	0.6273	0.5931	0.6106	0.6521	BLNK	-0.0550	1.55404		0.6316	0.999	0.995	
Vanadium		5.1039	4.3008	3.5829	3.5083	3.8269	BLNK	-0.1896	0.26607		4.0646	0.998	0.995	
Zinc		2.4239	2.6049	0.4935	0.4014	0.3881	BLNK	-2.4289	2.59599		1.2624	0.999	0.995	

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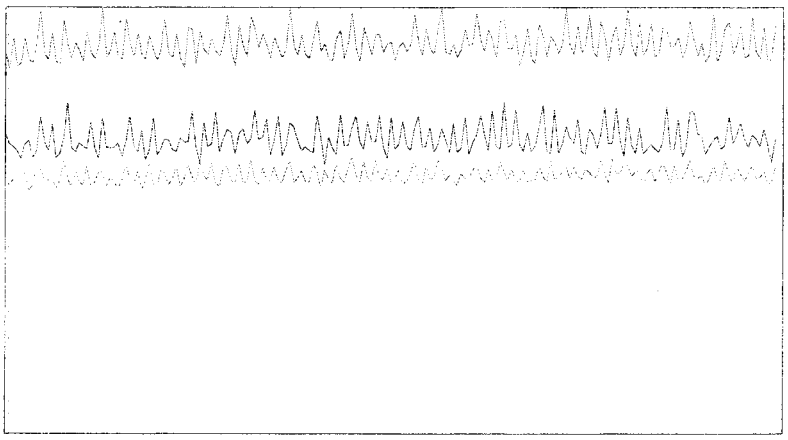
Instrument amount = a0 + response * a1 + response^2 * a2; BLNK=Y=aX+[blank]

Tune Report

Tune File : Autotune.u



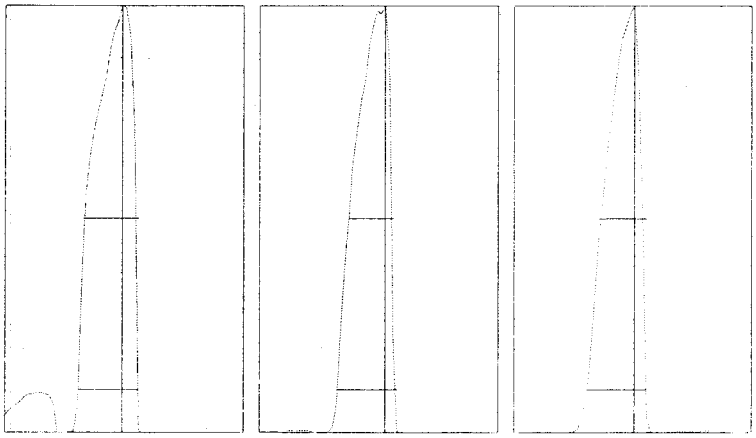
m/z:	7	89	205
Range:	20,000	20,000	20,000
Count:	13,839	19,179	12,495
Mean:	13835.5	18301.9	12133.5
RSD%:	4.88	3.90	3.09
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.30%
Doubly Charged:	70/140	1.03%

Background:

m/z:	7	89	205
Cps:	25.6	11.2	10.7



m/z:	7	89	205
Height:	13,856	18,535	12,199
Axis:	7.00	89.10	205.05
W-50%:	0.70	0.55	0.60
W-10%:	0.7500	0.7500	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1300 W	Extract 1:	-150 V	AMU Gain:	131
RF Matching:	1.7 V	Extract 2:	-110 V	AMU Offset:	125
Smpl Depth:	8 mm	Einzel 1,3:	-160 V	Axis Gain:	0.9993
Torch-H:	-0.1 mm	Einzel 2:	7 V	Axis Offset:	-0.08
Torch-V:	0.2 mm	Omega Bias:	-55 V	QP Bias:	1.6 V
Carrier Gas:	1.1 L/min	Omega (+):	5 V		
Makeup Gas:	0 L/min	Omega (-):	-5 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	6 V	Discriminator:	9.1 mV
PeriPump1:	0.1 rps	Plate Bias:	-5 V	Analog HV:	1790 V
PeriPump2:	--- rps			Pulse HV:	1450 V
S/C Temp:	2 degC				

Generated : Jun 07, 2006 17:31:28
Printed : Jun 07, 2006 17:31:34

P/A Factor Tuning Report

Acquired:Jun 7 2006 05:34 pm

Mass[amu]	Element	P/A Factor
6	Li	0.077696
9	Be	0.085086
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.099169
39	K	Sensitivity too high
43	Ca	0.099228
44	Ca	Sensitivity too high
45	Sc	0.098354
51	V	0.102376
52	Cr	0.102935
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.104437
57	Fe	0.105896
59	Co	0.105048
60	Ni	0.101359
63	Cu	0.104057
65	Cu	0.102023
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.100662
95	Mo	Sensitivity too low
98	Mo	0.100911
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.101894
111	Cd	Sensitivity too low
114	Cd	0.101294
115	In	0.101565
118	(In)	Sensitivity too high
121	Sb	0.102941
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.103586
166	Er	Sensitivity too low

205	Tl	0.104413
206	(Pb)	0.102684
207	(Pb)	0.102825
208	Pb	0.104010
209	Bi	0.102423

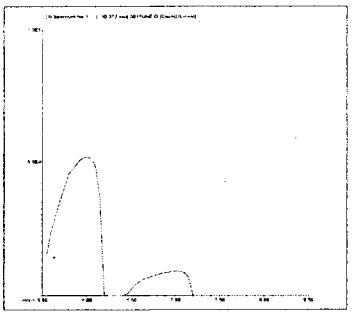
```
===Detector Parameters===
  Discriminator: 9.1 mV
      Analog HV: 1790 V
       Pulse HV: 1450 V
```

6020 QC Tune Report

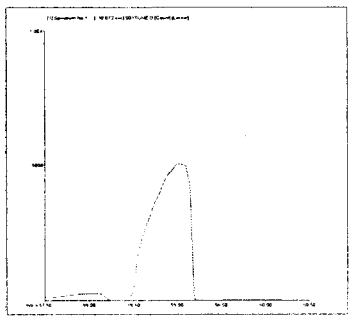
Data File: C:\ICPCHEM\1\DATA\06F0719b.B\001TUNE.D
Date Acquired: Jun 7 2006 07:34 pm
Acq. Method: TN6020.M
Operator:
Sample Name: tun,s3622
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

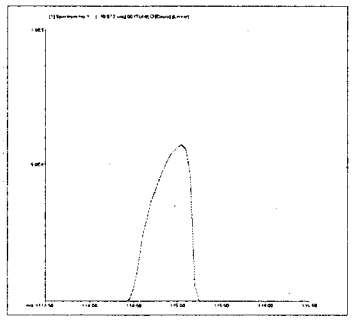
Element	Actual	Required	Flag
7 Li	1.27	5.00	
59 Co	2.01	5.00	
115 In	1.88	5.00	
205 Tl	1.12	5.00	



7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.00
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



115 In

Mass Calib.

Actual: 115.05

Required: 114.90 - 115.10

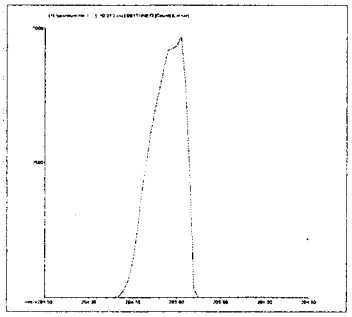
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



205 Tl

Mass Calib.

Actual: 205.05

Required: 204.90 - 205.10

Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06F0719b.B\003CAL
Date Acquired: Jun 7 2006 07:46 pm
Operator:
Sample Name: std-blk
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\602001
Last Cal Update: Jun 07 2006 06:29 pm
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	566834.69	M	7763.00	1.37
9	Be	43.33	P	12.02	27.74
23	Na	148197.80	P	990.40	0.67
26	Mg	725.56	P	99.57	13.72
27	Al	10991.11	P	243.30	2.21
39	K	399184.41	P	3644.00	0.91
44	Ca	4166.58	P	148.30	3.56
45	Sc	419934.41	P	3610.00	0.86
51	V	1136.77	P	257.70	22.67
52	Cr	3570.00	P	143.60	4.02
55	Mn	511.11	P	28.35	5.55
57	Fe	4352.22	P	82.62	1.90
59	Co	115.56	P	22.19	19.20
60	Ni	286.67	P	35.12	12.25
65	Cu	451.11	P	18.36	4.07
66	Zn	1492.22	P	131.40	8.81
72	Ge	79792.22	P	837.30	1.05
75	As	103.26	P	104.60	101.29
82	Se	14.00	P	10.91	77.93
95	Mo	53.33	P	28.48	53.40
109	Ag	58.89	P	5.09	8.65
111	Cd	88.98	P	22.65	25.45
115	In	561698.19	P	5106.00	0.91
121	Sb	186.67	P	3.33	1.79
137	Ba	55.56	P	13.47	24.25
205	Tl	282.22	P	22.19	7.86
208	Pb	356.67	P	23.09	6.47
209	Bi	398573.31	P	5252.00	1.32

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0719b.B\004CALI.D\004CALI.D#
Date Acquired: Jun 7 2006 07:51 pm
Operator:
Sample Name: cs1,s3608
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 07 2006 07:48 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	576569.50	M	9472.00	1.64
9	Be	302.22	P	30.97	10.25
23	Na	278900.00	P	2959.00	1.06
26	Mg	12621.11	P	118.80	0.94
27	Al	12966.67	P	25.17	0.19
39	K	541807.63	M	34430.00	6.35
44	Ca	8013.98	P	170.50	2.13
45	Sc	425382.19	P	4240.00	1.00
51	V	2603.53	P	180.50	6.93
52	Cr	5074.44	P	214.20	4.22
55	Mn	2225.56	P	44.76	2.01
57	Fe	7784.44	P	294.20	3.78
59	Co	1483.33	P	49.78	3.36
60	Ni	614.44	P	48.23	7.85
65	Cu	862.17	P	5.09	0.59
66	Zn	2410.00	P	85.05	3.53
72	Ge	80556.67	P	885.30	1.10
75	As	249.83	P	104.70	41.91
82	Se	30.00	P	13.61	45.37
95	Mo	377.78	P	13.47	3.57
109	Ag	796.67	P	5.77	0.72
111	Cd	247.47	P	8.58	3.47
115	In	566485.69	P	4626.00	0.82
121	Sb	753.33	P	20.82	2.76
137	Ba	268.89	P	30.06	11.18
205	Tl	1461.11	P	94.30	6.45
208	Pb	2074.44	P	40.32	1.94
209	Bi	401897.81	P	4833.00	1.20

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	576569.44	1.64	566834.69	101.7	80 - 120	

45	Sc	425382.19	1.00	419934.44	101.3	80 - 120
72	Ge	80556.66	1.10	79792.23	101.0	80 - 120
115	In	566485.63	0.82	561698.13	100.9	80 - 120
209	Bi	401897.78	1.20	398573.31	100.8	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0719b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0719b.B\005CALI.D\005CALI.D#
Date Acquired: Jun 7 2006 07:57 pm
Operator:
Sample Name: cs2,s3609
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 07 2006 07:53 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	572863.00	M	7017.00	1.22
9	Be	608.89	P	51.78	8.50
23	Na	417624.41	P	3207.00	0.77
26	Mg	23974.44	P	103.10	0.43
27	Al	13972.22	P	235.00	1.68
39	K	640803.31	P	3942.00	0.62
44	Ca	11354.31	P	155.80	1.37
45	Sc	432543.31	P	4648.00	1.07
51	V	4151.57	P	371.80	8.96
52	Cr	6628.89	P	192.50	2.90
55	Mn	3925.55	P	118.80	3.03
57	Fe	11162.22	P	299.50	2.68
59	Co	2960.00	P	123.30	4.17
60	Ni	892.22	P	12.62	1.41
65	Cu	1025.45	P	102.90	10.04
66	Zn	1972.22	P	71.67	3.63
72	Ge	81387.33	P	822.70	1.01
75	As	307.59	P	61.39	19.96
82	Se	28.67	P	8.11	28.29
95	Mo	702.22	P	23.65	3.37
109	Ag	1498.89	P	47.88	3.19
111	Cd	377.05	P	43.05	11.42
115	In	572119.63	P	4326.00	0.76
121	Sb	1396.67	P	63.60	4.55
137	Ba	584.44	P	39.49	6.76
205	Tl	2717.78	P	111.10	4.09
208	Pb	3716.67	P	166.00	4.47
209	Bi	402750.00	P	5431.00	1.35

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	572863.00	1.22	566834.69	101.1	80 - 120	

45	Sc	432543.31	1.07	419934.44	103.0	80 - 120
72	Ge	81387.34	1.01	79792.23	102.0	80 - 120
115	In	572119.63	0.76	561698.13	101.9	80 - 120
209	Bi	402749.97	1.35	398573.31	101.0	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0719b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0719b.B\006CALI.D\006CALI.D#
Date Acquired: Jun 7 2006 08:03 pm
Operator:
Sample Name: cs3,s3610
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 07 2006 07:59 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	578700.00	P	3118.00	0.54
9 Be	1181.11	P	58.53	4.96
23 Na	759903.31	A	2202.00	0.29
26 Mg	47130.00	P	689.60	1.46
27 Al	17206.67	P	151.70	0.88
39 K	943702.69	A	4847.00	0.51
44 Ca	23278.36	P	356.40	1.53
45 Sc	437296.59	P	5692.00	1.30
51 V	7073.35	P	591.60	8.36
52 Cr	9087.78	P	132.40	1.46
55 Mn	7388.89	P	79.05	1.07
57 Fe	17877.78	P	76.18	0.43
59 Co	5650.00	P	78.81	1.39
60 Ni	1592.22	P	90.33	5.67
65 Cu	1884.24	P	39.77	2.11
66 Zn	4284.44	P	111.90	2.61
72 Ge	82229.33	P	731.70	0.89
75 As	737.49	P	104.50	14.17
82 Se	63.78	P	14.79	23.19
95 Mo	1381.11	P	89.53	6.48
109 Ag	2958.89	P	137.10	4.63
111 Cd	679.41	P	41.26	6.07
115 In	575737.19	P	3768.00	0.65
121 Sb	2504.44	P	63.80	2.55
137 Ba	1022.22	P	63.01	6.16
205 Tl	5082.22	P	91.67	1.80
208 Pb	6948.89	P	96.28	1.39
209 Bi	405042.19	P	4338.00	1.07

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	578700.00	0.54	566834.69	102.1	80 - 120	

45	Sc	437296.66	1.30	419934.44	104.1	80 - 120
72	Ge	82229.34	0.89	79792.23	103.1	80 - 120
115	In	575737.19	0.65	561698.13	102.5	80 - 120
209	Bi	405042.19	1.07	398573.31	101.6	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0719b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0719b.B\007CALI.D\007CALI.D#
Date Acquired: Jun 7 2006 08:08 pm
Operator:
Sample Name: cs4,s3611
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 07 2006 08:04 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	598055.13	M	12780.00	2.14
9 Be	11412.22	P	224.20	1.96
23 Na	5513565.00	A	63470.00	1.15
26 Mg	464054.41	P	3350.00	0.72
27 Al	49154.44	P	1542.00	3.14
39 K	5107826.00	A	36120.00	0.71
44 Ca	140889.91	P	1278.00	0.91
45 Sc	444538.91	P	5260.00	1.18
51 V	60026.15	P	1066.00	1.78
52 Cr	54527.77	P	935.70	1.72
55 Mn	65816.66	P	629.80	0.96
57 Fe	135955.59	P	750.40	0.55
59 Co	55572.22	P	643.60	1.16
60 Ni	12576.67	P	299.50	2.38
65 Cu	13555.74	P	202.30	1.49
66 Zn	8266.67	P	12.02	0.15
72 Ge	83763.33	P	538.60	0.64
75 As	6191.04	P	97.31	1.57
82 Se	480.44	P	3.36	0.70
95 Mo	12707.78	P	170.60	1.34
109 Ag	28617.78	P	644.80	2.25
111 Cd	6315.62	P	100.10	1.59
115 In	586156.81	P	4542.00	0.77
121 Sb	23281.11	P	414.60	1.78
137 Ba	9825.55	P	302.60	3.08
205 Tl	48463.33	P	733.60	1.51
208 Pb	67657.78	P	883.60	1.31
209 Bi	408522.19	P	4772.00	1.17

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	598055.13	2.14	566834.69	105.5	80 - 120	

45	Sc	444538.88	1.18	419934.44	105.9	80 - 120
72	Ge	83763.34	0.64	79792.23	105.0	80 - 120
115	In	586156.81	0.77	561698.13	104.4	80 - 120
209	Bi	408522.19	1.17	398573.31	102.5	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0719b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0719b.B\008CALI.D\008CALI.D#
Date Acquired: Jun 7 2006 08:14 pm
Operator:
Sample Name: cs5,s3605
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 07 2006 08:10 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	594585.00	M	9810.00	1.65
9	Be	116551.10	P	930.30	0.80
23	Na	53633168.00	A	163300.00	0.30
26	Mg	4910640.00	A	54330.00	1.11
27	Al	387060.00	P	6537.00	1.69
39	K	45718680.00	A	256900.00	0.56
44	Ca	1411702.00	A	15360.00	1.09
45	Sc	442970.00	P	6194.00	1.40
51	V	591821.31	P	7286.00	1.23
52	Cr	507970.00	P	4390.00	0.86
55	Mn	649466.63	P	8100.00	1.25
57	Fe	1440460.00	A	5546.00	0.39
59	Co	550003.31	P	4610.00	0.84
60	Ni	119550.00	P	1266.00	1.06
65	Cu	128075.70	P	1662.00	1.30
66	Zn	67713.33	P	553.40	0.82
72	Ge	84346.22	P	638.80	0.76
75	As	61331.65	P	959.80	1.56
82	Se	4758.67	P	94.37	1.98
95	Mo	124654.40	P	623.20	0.50
109	Ag	284994.41	P	2596.00	0.91
111	Cd	58943.06	P	675.70	1.15
115	In	570742.31	P	5570.00	0.98
121	Sb	229340.00	P	1870.00	0.82
137	Ba	95257.78	P	1427.00	1.50
205	Tl	488054.41	P	5902.00	1.21
208	Pb	674096.63	P	4945.00	0.73
209	Bi	399681.09	P	7482.00	1.87

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	594585.00	1.65	566834.69	104.9	80 - 120	

45	Sc	442969.97	1.40	419934.44	105.5	80 - 120
72	Ge	84346.23	0.76	79792.23	105.7	80 - 120
115	In	570742.31	0.98	561698.13	101.6	80 - 120
209	Bi	399681.09	1.87	398573.31	100.3	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0719b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0719b.B\009CALI.D\009CALI.D#
Date Acquired: Jun 7 2006 08:19 pm
Operator:
Sample Name: cs6,s3606
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 07 2006 08:15 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	579510.88	M	5038.00	0.87
9	Be	229031.09	P	1644.00	0.72
23	Na	106531600.00	A	1376000.00	1.29
26	Mg	9714448.00	A	92910.00	0.96
27	Al	832178.00	A	14240.00	1.71
39	K	88255664.00	A	285000.00	0.32
44	Ca	2698938.00	A	8488.00	0.31
45	Sc	427686.59	P	3963.00	0.93
51	V	1267010.00	A	3752.00	0.30
52	Cr	1043105.00	A	7190.00	0.69
55	Mn	1349364.00	A	1291.00	0.10
57	Fe	2740086.00	A	25140.00	0.92
59	Co	1151725.00	A	6014.00	0.52
60	Ni	230597.80	P	2627.00	1.14
65	Cu	248006.80	P	1796.00	0.72
66	Zn	128493.30	P	784.00	0.61
72	Ge	82770.00	P	282.10	0.34
75	As	119354.20	P	432.80	0.36
82	Se	9056.00	P	101.50	1.12
95	Mo	242783.30	P	697.80	0.29
109	Ag	540565.63	P	3145.00	0.58
111	Cd	111180.00	P	409.60	0.37
115	In	547610.69	P	4255.00	0.78
121	Sb	437377.69	P	1710.00	0.39
137	Ba	182580.00	P	1341.00	0.73
205	Tl	997395.31	A	10040.00	1.01
208	Pb	1262645.00	P	4951.00	0.39
209	Bi	382378.91	P	1020.00	0.27

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	579510.94	0.87	566834.69	102.2	80 - 120	

45	Sc	427686.66	0.93	419934.44	101.8	80 -	120
72	Ge	82770.00	0.34	79792.23	103.7	80 -	120
115	In	547610.69	0.78	561698.13	97.5	80 -	120
209	Bi	382378.88	0.27	398573.31	95.9	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0719b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**
ISTD: **Pass**

Calibration Summary

Calibration : C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Calib: Jun 07, 2006 20:21
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\06f0719b.b\003calb.d\	003calb.d#	Jun 7 2006 07:46 pm
2	...hem\1\data\06f0719b.b\004cali.d\	004cali.d#	Jun 7 2006 07:51 pm
3	...hem\1\data\06f0719b.b\005cali.d\	005cali.d#	Jun 7 2006 07:57 pm
4	...hem\1\data\06f0719b.b\006cali.d\	006cali.d#	Jun 7 2006 08:03 pm
5	...hem\1\data\06f0719b.b\007cali.d\	007cali.d#	Jun 7 2006 08:08 pm
6	...hem\1\data\06f0719b.b\008cali.d\	008cali.d#	Jun 7 2006 08:14 pm
7	...hem\1\data\06f0719b.b\009cali.d\	009cali.d#	Jun 7 2006 08:19 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	Excluded	---	ppb
Be	9	6	Y = 9.862E-2*X +3.816E-3(blank)	---	ppb
Na	23	45	Y = 6.182E-1*X +1.765E+1(blank)	---	ppb
Mg	25	45	Excluded	---	ppb
Mg	26	45	Y = 5.651E-2*X +8.633E-2(blank)	---	ppb
Al	27	45	Y = 4.686E-1*X +1.309E+0(blank)	---	ppb
K	39	45	Y = 5.131E-1*X +4.753E+1(blank)	---	ppb
Ca	43	45	Excluded	---	ppb
Ca	44	45	Y = 1.578E-2*X +4.961E-1(blank)	---	ppb
Sc	45	---	Excluded	---	ppb
V	51	72	Y = 3.758E+0*X +7.126E-1(blank)	---	ppb
Cr	52	72	Y = 3.109E+0*X +2.237E+0(blank)	---	ppb
Cr	53	72	Excluded	---	ppb
Fe	54	72	Excluded	---	ppb
Mn	55	72	Y = 4.028E+0*X +3.204E-1(blank)	---	ppb
Fe	57	72	Y = 8.311E-2*X +2.727E+0(blank)	---	ppb
Co	59	72	Y = 3.434E+0*X +7.247E-2(blank)	---	ppb
Ni	60	72	Y = 6.979E-1*X +1.795E-1(blank)	---	ppb
Cu	63	72	Excluded	---	ppb
Cu	65	72	Y = 7.495E-1*X +2.827E-1(blank)	---	ppb
Zn	66	72	Y = 3.852E-1*X +9.356E-1(blank)	---	ppb
Ge	72	---	Excluded	---	ppb
As	75	72	Y = 3.607E-1*X +6.441E-2(blank)	---	ppb
(As)	77	72	Excluded	---	ppb
Se	82	72	Y = 2.747E-2*X +8.745E-3(blank)	---	ppb
(As)	83	72	Excluded	---	ppb
(Ca)	88	72	Excluded	---	ppb
Y	89	72	Excluded	---	ppb
Mo	95	72	Y = 7.343E-1*X +3.334E-2(blank)	---	ppb
Mo	98	72	Excluded	---	ppb
(Mo)	99	72	Excluded	---	ppb
(Cd)	106	72	Excluded	---	ppb
(Cd)	108	72	Excluded	---	ppb
Ag	109	72	Y = 1.644E+0*X +3.693E-2(blank)	---	ppb
Cd	111	72	Y = 3.383E-1*X +5.585E-2(blank)	---	ppb
Cd	114	72	Excluded	---	ppb
In	115	---	Excluded	---	ppb
(In)	118	---	Excluded	---	ppb
Sb	121	115	Y = 1.998E-1*X +1.662E-2(blank)	---	ppb
Ba	135	115	Excluded	---	ppb
Ba	137	115	Y = 8.334E-2*X +4.943E-3(blank)	---	ppb
Tb	159	---	Excluded	---	ppb
Er	166	115	Excluded	---	ppb
Tl	205	209	Y = 6.435E-1*X +3.539E-2(blank)	---	ppb
(Pb)	206	209	Excluded	---	ppb
(Pb)	207	209	Excluded	---	ppb
Pb	208	209	Y = 8.288E-1*X +4.475E-2(blank)	---	ppb
Bi	209	---	Excluded	---	ppb
Th	232	209	--------	---	ppb
U	238	209	--------	---	ppb

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694010 File : f0719010 Time : 07-JUN-2006 20:25
Cal : 56228694001 Caldate: 07-JUN-2006
Standards: S3601

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	1.3349	0.4852	100.0	100.7	ug/L	1	10	
Antimony	0.2211	0.2130	100.0	106.5	ug/L	7	10	
Arsenic	0.3839	0.3846	100.0	106.4	ug/L	6	10	
Barium	0.0894	0.0880	100.0	105.6	ug/L	6	10	
Beryllium	0.1009	0.1071	100.0	108.6	ug/L	9	10	
Cadmium	0.4255	0.3629	100.0	107.1	ug/L	7	10	
Calcium	0.0201	0.0168	10000	10620	ug/L	6	10	
Chromium	4.6173	3.1319	100.0	100.0	ug/L	0	10	
Cobalt	3.4688	3.4173	100.0	99.48	ug/L	-1	10	
Copper	0.9448	0.8014	100.0	106.6	ug/L	7	10	
Iron	0.0990	0.0898	10000	10780	ug/L	8	10	
Lead	0.8850	0.8815	100.0	106.3	ug/L	6	10	
Magnesium	0.0547	0.0608	10000	10760	ug/L	8	10	
Manganese	4.4493	4.0290	100.0	99.94	ug/L	0	10	
Molybdenum	0.7867	0.7680	100.0	104.6	ug/L	5	10	
Nickel	0.9575	0.7341	100.0	104.9	ug/L	5	10	
Potassium	0.8334	0.5471	10000	10570	ug/L	6	10	
Selenium	0.0317	0.0295	100.0	107.1	ug/L	7	10	
Silver	1.7750	1.7286	100.0	105.1	ug/L	5	10	
Sodium	0.7366	0.6675	10000	10770	ug/L	8	10	
Thallium	0.6316	0.6200	50.00	48.12	ug/L	-4	10	
Vanadium	4.0646	3.6235	100.0	96.22	ug/L	-4	10	
Zinc	1.2624	0.4228	100.0	107.3	ug/L	7	10	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	561263	-0.98
Scandium	419934	417321	-0.62
Germanium	79792	81182	1.74
Indium	561698	535247	-4.71
Bismuth	398573	380212	-4.61

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694029 File : f0719029 Time : 07-JUN-2006 22:11
Cal : 56228694001 Caldate: 07-JUN-2006
Standards: S3621

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3349	0.6014	150.0	189.7	ug/L	**26**	10	c+ ***
Antimony	0.2211	0.2085	150.0	156.4	ug/L	4	10	
Arsenic	0.3839	0.3785	150.0	157.2	ug/L	5	10	
Barium	0.0894	0.0853	150.0	153.5	ug/L	2	10	
Beryllium	0.1009	0.1093	150.0	166.1	ug/L	**11**	10	c+ ***
Cadmium	0.4255	0.3229	150.0	143.0	ug/L	-5	10	
Calcium	0.0201	0.0166	15000	15760	ug/L	5	10	
Chromium	4.6173	3.0352	150.0	145.7	ug/L	-3	10	
Cobalt	3.4688	3.6131	150.0	157.8	ug/L	5	10	
Copper	0.9448	0.7830	150.0	156.3	ug/L	4	10	
Iron	0.0990	0.0858	15000	15440	ug/L	3	10	
Lead	0.8850	0.8435	150.0	152.6	ug/L	2	10	
Magnesium	0.0547	0.0652	15000	17310	ug/L	**15**	10	c+ ***
Manganese	4.4493	4.0843	150.0	152.0	ug/L	1	10	
Molybdenum	0.7867	0.7377	150.0	150.6	ug/L	0	10	
Nickel	0.9575	0.7243	150.0	155.4	ug/L	4	10	
Potassium	0.8334	0.5722	15000	16630	ug/L	**11**	10	c+ ***
Selenium	0.0317	0.0284	150.0	155.0	ug/L	3	10	
Silver	1.7750	1.5768	150.0	143.8	ug/L	-4	10	
Sodium	0.7366	0.7227	15000	17510	ug/L	**17**	10	c+ ***
Thallium	0.6316	0.6270	150.0	146.1	ug/L	-3	10	
Vanadium	4.0646	3.8390	150.0	153.0	ug/L	2	10	
Zinc	1.2624	0.4047	150.0	155.2	ug/L	3	10	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	589256	3.96
Scandium	419934	441137	5.05
Germanium	79792	89884	12.65
Indium	561698	542647	-3.39
Bismuth	398573	362193	-9.13

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694045 File : f0719045 Time : 07-JUN-2006 23:40
Cal : 56228694001 Caldate: 07-JUN-2006
Standards: S3621

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3349	0.7375	150.0	233.3	ug/L	**56**	10	>LR c+ ***
Antimony	0.2211	0.2061	150.0	154.6	ug/L	3	10	
Arsenic	0.3839	0.3810	150.0	158.2	ug/L	5	10	i+
Barium	0.0894	0.0830	150.0	149.3	ug/L	0	10	
Beryllium	0.1009	0.1242	150.0	188.9	ug/L	**26**	10	c+ ***
Cadmium	0.4255	0.3069	150.0	135.9	ug/L	-9	10	i+
Calcium	0.0201	0.0166	15000	15720	ug/L	5	10	
Chromium	4.6173	2.7569	150.0	132.3	ug/L	**-12**	10	c- i+ ***
Cobalt	3.4688	3.4212	150.0	149.4	ug/L	0	10	i+
Copper	0.9448	0.7745	150.0	154.6	ug/L	3	10	i+
Iron	0.0990	0.0792	15000	14260	ug/L	-5	10	i+
Lead	0.8850	0.8477	150.0	153.4	ug/L	2	10	
Magnesium	0.0547	0.0799	15000	21210	ug/L	**41**	10	>LR c+ ***
Manganese	4.4493	3.7644	150.0	140.1	ug/L	-7	10	i+
Molybdenum	0.7867	0.7087	150.0	144.7	ug/L	-4	10	i+
Nickel	0.9575	0.6954	150.0	149.2	ug/L	-1	10	i+
Potassium	0.8334	0.6020	15000	17500	ug/L	**17**	10	c+ ***
Selenium	0.0317	0.0279	150.0	152.2	ug/L	1	10	i+
Silver	1.7750	1.4850	150.0	135.5	ug/L	-10	10	i+
Sodium	0.7366	0.8619	15000	20880	ug/L	**39**	10	>LR c+ ***
Thallium	0.6316	0.6275	150.0	146.2	ug/L	-3	10	
Vanadium	4.0646	3.4558	150.0	137.7	ug/L	-8	10	i+
Zinc	1.2624	0.3930	150.0	150.6	ug/L	0	10	i+

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	646109	13.99
Scandium	419934	458284	9.13
Germanium	79792	99594	**24.82 ***
Indium	561698	564032	0.42
Bismuth	398573	365276	-8.35

+=high bias -=low bias >LR=overrange c=CCV i=ISTD failure

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694060 File : f0719060 Time : 08-JUN-2006 01:04
Cal : 56228694001 Caldate: 07-JUN-2006
Standards: S3621

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3349	0.7624	150.0	241.2	ug/L	**61**	10	>LR c+ ***
Antimony	0.2211	0.2061	150.0	154.7	ug/L	3	10	
Arsenic	0.3839	0.3828	150.0	159.0	ug/L	6	10	i+
Barium	0.0894	0.0826	150.0	148.5	ug/L	-1	10	
Beryllium	0.1009	0.1253	150.0	190.6	ug/L	**27**	10	c+ ***
Cadmium	0.4255	0.3019	150.0	133.7	ug/L	**-11**	10	c- i+ ***
Calcium	0.0201	0.0168	15000	15900	ug/L	6	10	
Chromium	4.6173	2.8702	150.0	137.8	ug/L	-8	10	i+
Cobalt	3.4688	3.4153	150.0	149.1	ug/L	-1	10	i+
Copper	0.9448	0.7729	150.0	154.3	ug/L	3	10	i+
Iron	0.0990	0.0790	15000	14230	ug/L	-5	10	i+
Lead	0.8850	0.8348	150.0	151.0	ug/L	1	10	
Magnesium	0.0547	0.0811	15000	21520	ug/L	**43**	10	>LR c+ ***
Manganese	4.4493	3.7320	150.0	138.9	ug/L	-7	10	i+
Molybdenum	0.7867	0.7045	150.0	143.9	ug/L	-4	10	i+
Nickel	0.9575	0.6978	150.0	149.7	ug/L	0	10	i+
Potassium	0.8334	0.6075	15000	17660	ug/L	**18**	10	c+ ***
Selenium	0.0317	0.0277	150.0	151.1	ug/L	1	10	i+
Silver	1.7750	1.4735	150.0	134.4	ug/L	-10	10	i+
Sodium	0.7366	0.8769	15000	21250	ug/L	**42**	10	>LR c+ ***
Thallium	0.6316	0.6191	150.0	144.3	ug/L	-4	10	
Vanadium	4.0646	3.4979	150.0	139.4	ug/L	-7	10	i+
Zinc	1.2624	0.3917	150.0	150.1	ug/L	0	10	i+

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	669362	18.09
Scandium	419934	472200	12.45
Germanium	79792	103053	**29.15 ***
Indium	561698	574789	2.33
Bismuth	398573	368073	-7.65

+=high bias -=low bias >LR=overrange c=CCV i=ISTD failure

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694013 File : f0719013 Time : 07-JUN-2006 20:42
Cal : 56228694001 Caldate: 07-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	0.8437	0.5000	2.123	ug/L	ib ***
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.1528]	0.5000	0.03860	ug/L	!ib
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	[12.47]	50.00	9.919	ug/L	!ib
Thallium	[0.1600]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	579739	2.28
Scandium	419934	431764	2.82
Germanium	79792	82073	2.86
Indium	561698	564734	0.54
Bismuth	398573	393207	-1.35

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694032 File : f0719032 Time : 07-JUN-2006 22:28
Cal : 56228694001 Caldate: 07-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	8.806	0.5000	2.123	ug/L	ib ***
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.03442]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	[30.73]	50.00	7.739	ug/L	!ib
Chromium	[0.09208]	0.5000	0.03860	ug/L	!ib
Cobalt	[0.03827]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	[26.05]	50.00	6.980	ug/L	!ib
Lead	[0.01264]	0.2500	0.005283	ug/L	!ib
Magnesium	[17.23]	50.00	3.054	ug/L	!ib
Manganese	[0.07090]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	[32.45]	50.00	6.379	ug/L	!ib
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	78.77	50.00	9.919	ug/L	ib ***
Thallium	[0.2129]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	585541	3.30
Scandium	419934	435921	3.81
Germanium	79792	89095	11.66
Indium	561698	549915	-2.10
Bismuth	398573	365191	-8.38

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694047 File : f0719047 Time : 07-JUN-2006 23:51
Cal : 56228694001 Caldate: 07-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	5.736	0.5000	2.123	ug/L	ib ***
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	[0.04004]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.05594]	0.2500	0.009674	ug/L	!ib
Cadmium	[0.1037]	0.2500	0.04566	ug/L	!ib
Calcium	[23.44]	50.00	7.739	ug/L	!ib
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.04676]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	[20.27]	50.00	6.980	ug/L	!ib
Lead	[0.02953]	0.2500	0.005283	ug/L	!ib
Magnesium	[21.35]	50.00	3.054	ug/L	!ib
Manganese	[0.06760]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.04318]	0.2500	0.03982	ug/L	!ib
Potassium	[26.18]	50.00	6.379	ug/L	!ib
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.04026]	0.2500	0.01266	ug/L	!ib
Sodium	50.65	50.00	9.919	ug/L	ib ***
Thallium	[0.3768]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	630393	11.21
Scandium	419934	454676	8.27
Germanium	79792	95329	19.47
Indium	561698	556845	-0.86
Bismuth	398573	356384	-10.59

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694063 File : f0719063 Time : 08-JUN-2006 01:21
Cal : 56228694001 Caldate: 07-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	6.317	0.5000	2.123	ug/L	ib ***
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	i+
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.02560]	0.2500	0.009674	ug/L	!ib
Cadmium	[0.06523]	0.2500	0.04566	ug/L	!ib i+
Calcium	[20.65]	50.00	7.739	ug/L	!ib
Chromium	ND	0.5000	0.03860	ug/L	i+
Cobalt	[0.02356]	0.2500	0.008548	ug/L	!ib i+
Copper	ND	0.5000	0.04426	ug/L	i+
Iron	[16.35]	50.00	6.980	ug/L	!ib i+
Lead	[0.01239]	0.2500	0.005283	ug/L	!ib
Magnesium	[20.55]	50.00	3.054	ug/L	!ib
Manganese	[0.05713]	0.2500	0.01838	ug/L	!ib i+
Molybdenum	ND	0.5000	0.4994	ug/L	i+
Nickel	ND	0.2500	0.03982	ug/L	i+
Potassium	[24.56]	50.00	6.379	ug/L	!ib
Selenium	ND	0.5000	0.1891	ug/L	i+
Silver	[0.02839]	0.2500	0.01266	ug/L	!ib i+
Sodium	68.73	50.00	9.919	ug/L	ib ***
Thallium	[0.1624]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	i+
Zinc	ND	0.5000	0.09577	ug/L	i+

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	665970	17.49
Scandium	419934	467206	11.26
Germanium	79792	100307	**25.71 ***
Indium	561698	572606	1.94
Bismuth	398573	359429	-9.82

!=warning +=high bias i=ISTD failure ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694014 File : f0719014 Time : 07-JUN-2006 20:47
Cal : 56228694001 Caldate: 07-JUN-2006
Standards: S3612, S3310

Analyte	Quant	RL	Units	Flags
Antimony	2.177	0.2500	ug/L	
Arsenic	0.9634	0.5000	ug/L	
Barium	0.9734	0.2500	ug/L	
Beryllium	[0.02727]	0.2500	ug/L	
Cadmium	[0.06097]	0.2500	ug/L	
Chromium	1.425	0.5000	ug/L	
Cobalt	2.610	0.2500	ug/L	
Copper	1.923	0.5000	ug/L	
Lead	1.218	0.2500	ug/L	
Manganese	1.012	0.2500	ug/L	
Nickel	1.618	0.2500	ug/L	
Selenium	0.5301	0.5000	ug/L	
Silver	[0.1596]	0.2500	ug/L	
Thallium	[0.1666]	0.5000	ug/L	
Vanadium	[0]	0.5000	ug/L	
Zinc	3.183	0.5000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	97640	ug/L	98
Calcium	300000	295700	ug/L	99
Iron	250000	235500	ug/L	94
Magnesium	100000	99930	ug/L	100
Molybdenum	2000	1996	ug/L	100
Potassium	100000	99510	ug/L	100
Sodium	250000	247600	ug/L	99

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	513772	-9.36
Scandium	419934	395752	-5.76
Germanium	79792	75735	-5.08
Indium	561698	451332	-19.65
Bismuth	398573	302884	-24.01

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694015 File : f0719015 Time : 07-JUN-2006 20:53
Cal : 56228694001 Caldate: 07-JUN-2006
Standards: S3620, S3310

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	100300	ug/L	0		
Arsenic	100.0	107.4	ug/L	7	20	
Cadmium	100.0	95.12	ug/L	-5	20	
Calcium	300000	296400	ug/L	-1		
Chromium	200.0	216.6	ug/L	8	20	
Cobalt	200.0	214.0	ug/L	7	20	
Copper	200.0	201.4	ug/L	1	20	
Iron	250000	232600	ug/L	-7		
Magnesium	100000	103100	ug/L	3		
Manganese	200.0	216.1	ug/L	8	20	
Molybdenum	2000	1982	ug/L	-1		
Nickel	200.0	201.9	ug/L	1	20	
Potassium	100000	99600	ug/L	0		
Selenium	100.0	92.09	ug/L	-8	20	
Silver	50.00	48.80	ug/L	-2	20	
Sodium	250000	253900	ug/L	2		
Vanadium	200.0	222.5	ug/L	11	20	
Zinc	100.0	106.4	ug/L	6	20	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Scandium	419934	385470	-8.21
Germanium	79792	76933	-3.58

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694064 File : f0719064 Time : 08-JUN-2006 01:27
Cal : 56228694001 Caldate: 07-JUN-2006
Standards: S3602, S3310

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100.0	112500	ug/L	112500
Antimony	100.0	2.161	ug/L	2
Arsenic	100.0	1.135	ug/L	1
Barium	100.0	0.9741	ug/L	1
Beryllium	100.0	0.03779	ug/L	0
Cadmium	100.0	0.08293	ug/L	0
Calcium	10000	294500	ug/L	2945
Chromium	100.0	1.489	ug/L	1
Cobalt	100.0	2.544	ug/L	3
Copper	100.0	1.904	ug/L	2
Iron	10000	224100	ug/L	2241
Lead	100.0	1.221	ug/L	1
Magnesium	10000	115400	ug/L	1154
Manganese	100.0	0.9974	ug/L	1
Molybdenum	100.0	1876	ug/L	1876
Nickel	100.0	1.886	ug/L	2
Potassium	10000	104900	ug/L	1049
Selenium	100.0	0.5467	ug/L	1
Silver	100.0	0.1536	ug/L	0
Sodium	10000	279700	ug/L	2797
Thallium	50.00	0.2211	ug/L	0
Vanadium	100.0	0.1856	ug/L	0
Zinc	100.0	3.421	ug/L	3

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	582442	2.75
Scandium	419934	446502	6.33
Germanium	79792	92559	16.00
Indium	561698	488271	-13.07
Bismuth	398573	302387	-24.13

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694065 File : f0719065 Time : 08-JUN-2006 01:32
Cal : 56228694001 Caldate: 07-JUN-2006
Standards: S3620, S3310

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	118500	ug/L	19		
Arsenic	100.0	110.1	ug/L	10	20	
Cadmium	100.0	86.07	ug/L	-14	20	
Calcium	300000	298900	ug/L	0		
Chromium	200.0	203.4	ug/L	2	20	
Cobalt	200.0	208.4	ug/L	4	20	
Copper	200.0	199.4	ug/L	0	20	
Iron	250000	223200	ug/L	-11		
Magnesium	100000	120300	ug/L	20		
Manganese	200.0	203.7	ug/L	2	20	
Molybdenum	2000	1868	ug/L	-7		
Nickel	200.0	200.9	ug/L	0	20	
Potassium	100000	106800	ug/L	7		
Selenium	100.0	91.82	ug/L	-8	20	
Silver	50.00	44.01	ug/L	-12	20	
Sodium	250000	291200	ug/L	16		
Vanadium	200.0	209.2	ug/L	5	20	
Zinc	100.0	104.1	ug/L	4	20	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Scandium	419934	426930	1.67
Germanium	79792	91421	14.57

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56228694 Instrument: MET05 Agilent ICP-MS Begun: 07-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	f0719001	TUN				07-JUN-2006 19:34	1.0	1.0			1	
002	f0719002	X	RINSE			07-JUN-2006 19:40	1.0				2	
003	f0719003	ICALBLK	STD-BLK			07-JUN-2006 19:46	1.0	1.0			2	
004	f0719004	ICAL	CS1			07-JUN-2006 19:51	1.0	1.0			3	
005	f0719005	ICAL	CS2			07-JUN-2006 19:57	1.0	1.0			4	
006	f0719006	ICAL	CS3			07-JUN-2006 20:03	1.0	1.0			5	
007	f0719007	ICAL	CS4			07-JUN-2006 20:08	1.0	1.0			6	
008	f0719008	ICAL	CS5			07-JUN-2006 20:14	1.0	1.0			7	
009	f0719009	ICAL	CS6			07-JUN-2006 20:19	1.0	1.0			8	
010	f0719010	ICV				07-JUN-2006 20:25	1.0	1.0		1	9	
011	f0719011	X	RINSE			07-JUN-2006 20:30	1.0				2	
012	f0719012	X				07-JUN-2006 20:36	1.0	1.0	1	1	2	
013	f0719013	ICB				07-JUN-2006 20:42	1.0	1.0	1	1	2	
014	f0719014	ICSA				07-JUN-2006 20:47	1.0	1.0		1	10 2	7:CA=295700
015	f0719015	ICSAB				07-JUN-2006 20:53	1.0	1.0		1	11 2	13:CA=296400
016	f0719016	X	RINSE			07-JUN-2006 20:58	1.0				2	
017	f0719017	X	RINSE			07-JUN-2006 21:04	1.0				2	
018	f0719018	SAMPLE	187020-012	113955	Water	07-JUN-2006 21:10	1.0	1.0	6	1	2	5:NA=55240.0
019	f0719019	SAMPLE	187020-013	113955	Water	07-JUN-2006 21:15	1.0	1.0	5	1	2	4:MG=80420.0
020	f0719020	SAMPLE	187020-014	113955	Water	07-JUN-2006 21:21	1.0	1.0	7	1	2	6:NA=179600
021	f0719021	SAMPLE	187020-015	113955	Water	07-JUN-2006 21:26	1.0	1.0	9	1	2	8:NA=227000
022	f0719022	X	RINSE			07-JUN-2006 21:32	1.0				2	
023	f0719023	BLANK	QC342089	113957	Filtra	07-JUN-2006 21:37	1.0	1.0	5	1	2	
024	f0719024	BS	QC342090	113957	Filtra	07-JUN-2006 21:43	1.0	1.0	5	1	2	
025	f0719025	BSD	QC342091	113957	Filtra	07-JUN-2006 21:48	1.0	1.0	5	1	2	
026	f0719026	X	RINSE			07-JUN-2006 21:54	1.0				2	
027	f0719027	MSS	187112-002	113957	Filtra	07-JUN-2006 22:00	1.0	1.0	4	1	2	3:NA=57750.0
028	f0719028	X	RINSE			07-JUN-2006 22:05	1.0				2	
029	f0719029	CCV				07-JUN-2006 22:11	1.0	1.0	5	1	12	
031	f0719031	X				07-JUN-2006 22:22	1.0	1.0	2	1	2	

Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3621 13=S3085 14=S3602
Flags used: spk=5% spike rule

Analyst: K Carlyon Date: 6/8/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56228694 Instrument: MET05 Agilent ICP-MS Begun: 07-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	f0719032	CCB				07-JUN-2006 22:28	1.0	1.0	2		1	2	
033	f0719033	SER	QC342094	113957	Filtra	07-JUN-2006 22:33	5.0	1.0	3	1	1	2	
034	f0719034	MS	QC342092	113957	Filtra	07-JUN-2006 22:39	1.0	1.0	4		1	2	3:NA=69250.0
035	f0719035	MSD	QC342093	113957	Filtra	07-JUN-2006 22:44	1.0	1.0	4		1	2	3:NA=71430.0
036	f0719036	PDS	QC342095	113957	Filtra	07-JUN-2006 22:50	1.0	1.0	4		1	13	3:NA=70030.0
037	f0719037	X	RINSE			07-JUN-2006 22:55	1.0					2	
038	f0719038	SAMPLE	187020-017	113957	Filtra	07-JUN-2006 23:01	1.0	1.0	5		1	2	3:NA=73920.0
039	f0719039	SAMPLE	187020-018	113957	Filtra	07-JUN-2006 23:07	1.0	1.0	5		1	2	3:NA=80950.0
040	f0719040	SAMPLE	187020-019	113957	Filtra	07-JUN-2006 23:12	1.0	1.0	5		1	2	3:NA=102500
041	f0719041	SAMPLE	187020-020	113957	Filtra	07-JUN-2006 23:18	1.0	1.0	5		1	2	3:NA=101900
042	f0719042	SAMPLE	187112-003	113957	Filtra	07-JUN-2006 23:24	1.0	1.0	5		1	2	3:MG=477600
043	f0719043	SAMPLE	187112-004	113957	Filtra	07-JUN-2006 23:29	1.0	1.0	5		1	2	4:MG=269300
044	f0719044	X	RINSE			07-JUN-2006 23:35	1.0					2	
045	f0719045	CCV				07-JUN-2006 23:40	1.0	1.0	6		1	12	3:MG=21210.0
046	f0719046	X	RINSE			07-JUN-2006 23:46	1.0					2	
047	f0719047	CCB				07-JUN-2006 23:51	1.0	1.0	2		1	2	
048	f0719048	X				07-JUN-2006 23:57	1.0	1.0	1		1	2	
049	f0719049	SAMPLE	187112-005	113957	Water	08-JUN-2006 00:03	1.0	1.0	2		1	2	5:NA=184700
050	f0719050	SAMPLE	187112-006	113957	Filtra	08-JUN-2006 00:08	1.0	1.0	4		1	2	2:NA=273600
051	f0719051	SAMPLE	187112-007	113957	Filtra	08-JUN-2006 00:14	1.0	1.0	4		1	2	2:NA=285700
052	f0719052	SAMPLE	187112-008	113957	Filtra	08-JUN-2006 00:20	1.0	1.0	5		1	2	2:NA=251900
053	f0719053	SAMPLE	187112-009	113957	Filtra	08-JUN-2006 00:25	1.0	1.0	5		1	2	2:NA=282700
054	f0719054	SAMPLE	187112-010	113957	Filtra	08-JUN-2006 00:31	1.0	1.0	4		1	2	2:NA=159700
055	f0719055	SAMPLE	187112-011	113957	Filtra	08-JUN-2006 00:36	1.0	1.0	3		1	2	
056	f0719056	SAMPLE	187112-012	113957	Filtra	08-JUN-2006 00:42	1.0	1.0	7		1	2	4:NA=258300
057	f0719057	SAMPLE	187112-013	113957	Water	08-JUN-2006 00:48	1.0	1.0	4		1	2	
058	f0719058	SAMPLE	187137-001	113957	Filtra	08-JUN-2006 00:53	1.0	1.0	3		1	2	
059	f0719059	X	RINSE			08-JUN-2006 00:59	1.0					2	
060	f0719060	CCV				08-JUN-2006 01:04	1.0	1.0	6		1	12	3:MG=21520.0
061	f0719061	X	RINSE			08-JUN-2006 01:10	1.0					2	

375

Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3621 13=S3085 14=S3602
Flags used: spk=5% spike rule

Analyst: K Carlyn Date: 6/8/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56228694 Instrument: MET05 Agilent ICP-MS Begun: 07-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
062	f0719062	X				08-JUN-2006 01:15	1.0	1.0	2		1	2	
063	f0719063	CCB				08-JUN-2006 01:21	1.0	1.0	2		1	2	
064	f0719064	ICSA				08-JUN-2006 01:27	1.0	1.0			1	14 2	7:CA=294500
065	f0719065	ICSAB				08-JUN-2006 01:32	1.0	1.0			1	11 2	12:CA=298900
066	f0719066	X	RINSE			08-JUN-2006 01:38	1.0					2	
067	f0719067	CCV				08-JUN-2006 01:43	1.0	1.0	5		1	12	1:AL=228.300
068	f0719068	X	RINSE			08-JUN-2006 01:49	1.0					2	
069	f0719069	CCB				08-JUN-2006 01:54	1.0	1.0	2		1	2	
070	f0719070	X				08-JUN-2006 02:00	1.0	1.0	2		1	2	
071	f0719071	BLANK	QC342503	114058	Filtra	08-JUN-2006 02:06	1.0	1.0	4		1	2	
072	f0719072	BS	QC342504	114058	Filtra	08-JUN-2006 02:11	1.0	1.0	6	4	1	2 spk	
073	f0719073	BSD	QC342505	114058	Filtra	08-JUN-2006 02:17	1.0	1.0	6	5	1	2 spk	
074	f0719074	X	RINSE			08-JUN-2006 02:22	1.0					2	
075	f0719075	X	187061-013	114058	Filtra	08-JUN-2006 02:28	1.0	1.0	8		1	2 spk	6:CA=52260.0
076	f0719076	MS	QC342506	114058	Filtra	08-JUN-2006 02:34	1.0	1.0			1	2	6:CA=61250.0
077	f0719077	MSD	QC342507	114058	Filtra	08-JUN-2006 02:39	1.0	1.0			1	2	6:CA=61080.0
078	f0719078	X	RINSE			08-JUN-2006 02:45	1.0					2	
079	f0719079	X	187061-001	114058	Filtra	08-JUN-2006 02:50	1.0	1.0	1		1	2 spk	1:NA=38720.0
080	f0719080	X	187061-002	114058	Filtra	08-JUN-2006 02:56	1.0	1.0	1		1	2 spk	1:NA=36990.0
081	f0719081	X	187061-003	114058	Filtra	08-JUN-2006 03:02	1.0	1.0	1		1	2 spk	2:NA=47330.0
082	f0719082	X	187061-004	114058	Filtra	08-JUN-2006 03:07	1.0	1.0	1		1	2 spk	1:NA=56680.0
083	f0719083	X	RINSE			08-JUN-2006 03:13	1.0					2	
084	f0719084	CCV				08-JUN-2006 03:18	1.0	1.0	6		1	12	3:MG=21090.0
085	f0719085	X	RINSE			08-JUN-2006 03:24	1.0					2	
086	f0719086	X				08-JUN-2006 03:30	1.0	1.0	1		1	2	
087	f0719087	CCB				08-JUN-2006 03:35	1.0	1.0	1		1	2	
088	f0719088	X	187061-005	114058	Filtra	08-JUN-2006 03:41	1.0	1.0	1		1	2 spk	1:NA=27950.0
089	f0719089	X	187061-006	114058	Filtra	08-JUN-2006 03:47	1.0	1.0	1		1	2 spk	1:NA=31400.0
090	f0719090	X	187061-007	114058	Filtra	08-JUN-2006 03:52	1.0	1.0	1		1	2 spk	1:NA=36630.0
091	f0719091	X	187061-008	114058	Filtra	08-JUN-2006 03:58	1.0	1.0	1		1	2 spk	2:NA=21550.0

Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3621 13=S3085 14=S3602
Flags used: spk=5% spike rule

Analyst: K Carlyn Date: 6/8/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56229800002
Units : ug/L

Date : 08-JUN-2006 14:11
X Axis : R

Reviewer: ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	f0813004	56229800004	CS1	08-JUN-2006 14:17	S3608
L2	f0813005	56229800005	CS2	08-JUN-2006 14:22	S3609
L3	f0813006	56229800006	CS3	08-JUN-2006 14:28	S3610
L4	f0813007	56229800007	CS4	08-JUN-2006 14:34	S3611
L5	f0813008	56229800008	CS5	08-JUN-2006 14:39	S3605
L6	f0813009	56229800009	CS6	08-JUN-2006 14:45	S3606

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		4.0668	2.4856	0.5685	0.4159	0.4565	BLNK	-4.0072	2.28440		1.5987	0.997	0.995	
Antimony	0.2644	0.2405	0.2235	0.2114	0.2146	0.2167	BLNK	-0.0563	4.62493		0.2285	1.000	0.995	
Arsenic		0.3719	0.4065	0.3620	0.3599	0.3624	BLNK	-0.0158	2.76342		0.3726	1.000	0.995	
Barium	0.1032	0.1046	0.0940	0.0851	0.0857	0.0860	BLNK	-0.0578	11.6445		0.0931	1.000	0.995	
Beryllium	0.1212	0.1019	0.0966	0.0985	0.0981	0.0991	BLNK	-0.0524	10.1171		0.1026	1.000	0.995	
Cadmium	0.5720	0.4464	0.3774	0.3043	0.2945	0.2889	BLNK	-0.2448	3.45253		0.3806	1.000	0.995	
Calcium		0.0276	0.0269	0.0159	0.0160	0.0157	BLNK	-34.577	63.6498		0.0204	1.000	0.995	
Chromium		6.6881	4.6502	2.8769	2.6635	2.8199	BLNK	-0.7057	0.36015		3.9397	0.999	0.995	
Cobalt	3.6413	3.4185	3.2472	3.0377	3.0615	3.2279	BLNK	-0.0377	0.31313		3.2724	0.999	0.995	
Copper		1.2903	0.9649	0.7418	0.7159	0.7047	BLNK	-0.3111	1.41710		0.8835	1.000	0.995	
Iron		0.1599	0.1144	0.0766	0.0778	0.0758	BLNK	-53.325	13.1709		0.1009	1.000	0.995	
Lead	0.9511	0.9053	0.8704	0.8245	0.8250	0.8712	BLNK	-0.0382	1.16052		0.8746	0.999	0.995	
Magnesium		0.0557	0.0529	0.0522	0.0525	0.0530	BLNK	-4.8669	18.9053		0.0533	1.000	0.995	
Manganese	5.6264	4.7406	4.2403	3.6034	3.8236	3.7494	BLNK	-0.1187	0.26588		4.2973	1.000	0.995	
Molybdenum		0.8134	0.7782	0.6801	0.6713	0.6790	BLNK	-0.0932	1.47696		0.7244	1.000	0.995	
Nickel	1.5402	1.1314	0.9071	0.6987	0.6490	0.6413	BLNK	-0.3032	1.55821		0.9280	1.000	0.995	
Potassium		1.8307	1.1792	0.5622	0.4913	0.4869	BLNK	-133.29	2.06654		0.9101	1.000	0.995	
Selenium		0.0338	0.0291	0.0243	0.0234	0.0232	BLNK	-0.2600	43.0349		0.0267	1.000	0.995	
Silver	1.5649	1.5585	1.5123	1.4526	1.4245	1.4118	BLNK	-0.0177	0.70709		1.4874	1.000	0.995	
Sodium		0.8767	0.8323	0.6174	0.5924	0.5975	BLNK	-23.014	1.67878		0.7033	1.000	0.995	
Thallium		0.7760	0.6614	0.5748	0.6021	0.6752	BLNK	-0.2225	1.51623		0.6579	0.997	0.995	
Vanadium		4.1786	3.7285	3.1506	3.3855	3.3994	BLNK	-0.1870	0.29480		3.5685	1.000	0.995	
Zinc		2.2673	2.4909	0.4763	0.3826	0.3733	BLNK	-2.3353	2.70212		1.1981	1.000	0.995	

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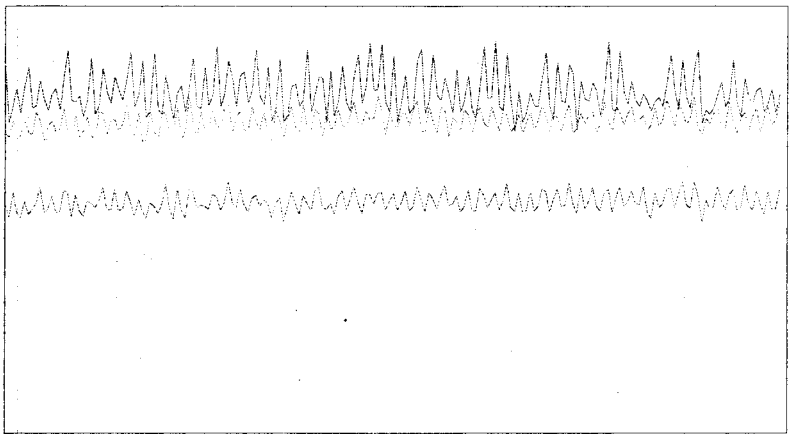
Instrument amount = a0 + response * a1 + response^2 * a2; BLNK=Y=aX+[blank]

Tune Report

Tune File : ATUNE.U



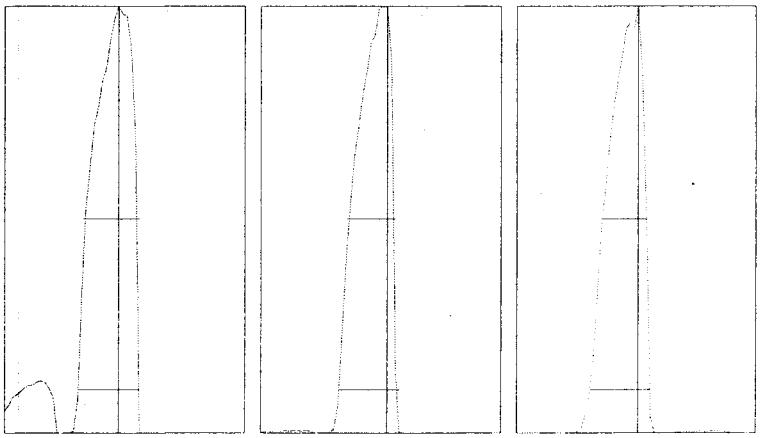
m/z:	7	89	205
Range:	20,000	50,000	20,000
Count:	15,876	28,751	15,522
Mean:	15994.5	27173.1	14636.0
RSD%:	6.25	4.23	3.47
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.34%
Doubly Charged:	70/140	1.13%

Background:

m/z:	7	89	205
Cps:	49.8	17.6	19.5



m/z:	7	89	205
Height:	15,878	27,458	14,911
Axis:	6.95	89.10	205.05
W-50%:	0.70	0.60	0.55
W-10%:	0.7500	0.7500	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1300 W	Extract 1:	-150 V	AMU Gain:	131
RF Matching:	1.7 V	Extract 2:	-110 V	AMU Offset:	125
Smpl Depth:	8 mm	Einzel 1,3:	-160 V	Axis Gain:	0.9993
Torch-H:	-0.1 mm	Einzel 2:	7 V	Axis Offset:	-0.08
Torch-V:	0.2 mm	Omega Bias:	-55 V	QP Bias:	1.6 V
Carrier Gas:	1.06 L/min	Omega (+):	5 V		
Makeup Gas:	0 L/min	Omega (-):	-5 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	8 V	Discriminator:	9.1 mV
PeriPump1:	0.1 rps	Plate Bias:	-5 V	Analog HV:	1790 V
PeriPump2:	--- rps			Pulse HV:	1450 V
S/C Temp:	2 degC				

Generated : Jun 08, 2006 13:39:46
Printed : Jun 08, 2006 13:39:52

P/A Factor Tuning Report

Acquired:Jun 8 2006 01:48 pm

Mass[amu]	Element	P/A Factor
6	Li	0.076367
9	Be	0.083439
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.098113
39	K	0.090561
43	Ca	0.098712
44	Ca	Sensitivity too high
45	Sc	0.097662
51	V	0.101440
52	Cr	0.101780
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.103641
57	Fe	Sensitivity too high
59	Co	0.104294
60	Ni	0.101235
63	Cu	0.103017
65	Cu	0.101494
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.100231
95	Mo	0.099156
98	Mo	0.100257
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.101003
111	Cd	Sensitivity too low
114	Cd	0.100478
115	In	0.100928
118	(In)	Sensitivity too high
121	Sb	0.102823
135	Ba	Sensitivity too low
137	Ba	0.102006
159	Tb	0.103083
166	Er	Sensitivity too low

205	Tl	0.103602
206	(Pb)	0.101891
207	(Pb)	0.100967
208	Pb	0.102948
209	Bi	0.100590

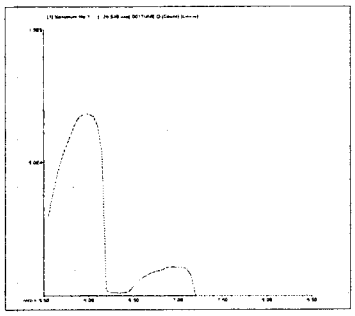
```
===Detector Parameters===
  Discriminator: 9.1 mV
      Analog HV: 1790 V
       Pulse HV: 1450 V
```

6020 QC Tune Report

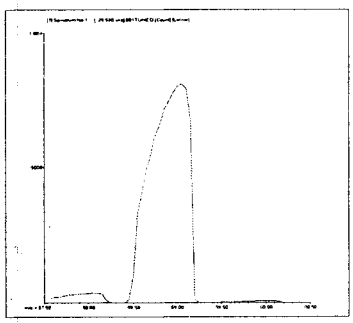
Data File: C:\ICPCHEM\1\DATA\06F0813a.B\001TUNE.D
Date Acquired: Jun 8 2006 02:00 pm
Acq. Method: TN6020.M
Operator:
Sample Name: tun,s3622
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

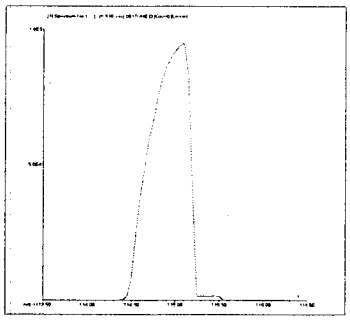
Element	Actual	Required	Flag
7 Li	1.58	5.00	
59 Co	0.70	5.00	
115 In	1.24	5.00	
205 Tl	1.73	5.00	



7 Li
Mass Calib.
Actual: 6.95
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



115 In

Mass Calib.

Actual: 115.10

Required: 114.90 - 115.10

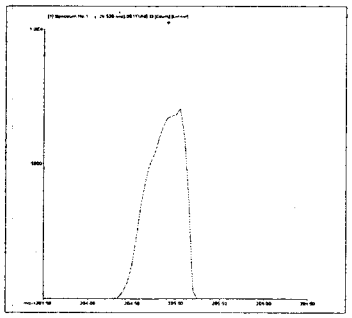
Flag:

Peak Width

Actual: 0.65

Required: 0.90

Flag:



205 Tl

Mass Calib.

Actual: 205.05

Required: 204.90 - 205.10

Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06F0813a.B\002BLNK.D\002BLNK.D#
Date Acquired: Jun 8 2006 02:06 pm
Acq. Method: 60200111.M
Operator:
Sample Name: rinse
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal. Update: Jun 07 2006 08:21 pm
Sample Type: 6-Blank
Dilution Factor: 1.00

QC Elements

Element	Corr. Conc.	RSD(%)	Raw Conc.	High Limit	Flag
9 Be	0.01479 ppb	50.83	0.01479	1.00	
23 Na	-6.81 ppb	6.97	-6.81	1.00	
26 Mg	2.708 ppb	2.65	2.708	1.00	
27 Al	0.8601 ppb	9.32	0.8601	1.00	
39 K	29.65 ppb	4.13	29.65	1.00	
44 Ca	3.946 ppb	28.59	3.946	1.00	
51 V	-0.03375 ppb	112.06	-0.03375	1.00	
52 Cr	-0.1207 ppb	8.88	-0.1207	1.00	
55 Mn	0.03867 ppb	8.88	0.03867	1.00	
57 Fe	16.71 ppb	1.48	16.71	1.00	
59 Co	0.01506 ppb	20.54	0.01506	1.00	
60 Ni	0.02874 ppb	106.89	0.02874	1.00	
65 Cu	-0.08252 ppb	8.45	-0.08252	1.00	
66 Zn	-0.002108 ppb	2456.80	-0.002108	1.00	
75 As	-0.1616 ppb	48.13	-0.1616	1.00	
82 Se	-0.2923 ppb	98.67	-0.2923	1.00	
95 Mo	0.05664 ppb	9.62	0.05664	1.00	
109 Ag	-0.003397 ppb	180.39	-0.003397	1.00	
111 Cd	0.03738 ppb	83.12	0.03738	1.00	
121 Sb	-0.02086 ppb	29.56	-0.02086	1.00	
137 Ba	0.005731 ppb	178.50	0.005731	1.00	
205 Tl	0.2843 ppb	6.61	0.2843	1.00	
208 Pb	-0.01624 ppb	14.86	-0.01624	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	684593.75	0.72	---	#VALUE!	80 - 120	
45 Sc	580715.56	0.64	---	#VALUE!	80 - 120	
72 Ge	127530.00	0.36	---	#VALUE!	80 - 120	
115 In	758682.19	0.39	---	#VALUE!	80 - 120	
209 Bi	532723.31	0.78	---	#VALUE!	80 - 120	

ISTD Ref File : ---

4 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Fail
ISTD: Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06F0813a.B\003CAL
Date Acquired: Jun 8 2006 02:11 pm
Operator:
Sample Name: std-blk
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\602001
Last Cal Update: Jun 07 2006 08:21 pm
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	685997.19	A	2586.00	0.38
9	Be	71.11	P	23.65	33.26
23	Na	156148.91	P	1447.00	0.93
26	Mg	2933.33	P	107.30	3.66
27	Al	19978.89	P	113.60	0.57
39	K	734745.88	A	13280.00	1.81
44	Ca	6189.52	P	184.50	2.98
45	Sc	569607.69	P	9776.00	1.72
51	V	1607.99	P	625.90	38.92
52	Cr	4967.78	P	168.80	3.40
55	Mn	1132.22	P	66.19	5.85
57	Fe	10264.44	P	131.70	1.28
59	Co	305.56	P	3.85	1.26
60	Ni	493.33	P	60.00	12.16
65	Cu	556.65	P	30.55	5.49
66	Zn	2191.11	P	64.32	2.94
72	Ge	126761.80	P	347.40	0.27
75	As	14.55	P	114.20	784.94
82	Se	15.33	P	20.43	133.24
95	Mo	160.00	P	20.28	12.68
109	Ag	63.33	P	26.03	41.10
111	Cd	179.70	P	16.20	9.01
115	In	747997.81	P	8499.00	1.14
121	Sb	182.22	P	32.03	17.58
137	Ba	74.44	P	24.57	33.00
205	Tl	1544.44	P	38.63	2.50
208	Pb	346.67	P	20.82	6.01
209	Bi	526424.38	P	5516.00	1.05

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0813a.B\004CALI.D\004CALI.D#
Date Acquired: Jun 8 2006 02:17 pm
Operator:
Sample Name: cs1,s3608
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 08 2006 02:13 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	683879.88	A	6322.00	0.92
9 Be	414.44	P	25.02	6.04
23 Na	330706.69	P	2098.00	0.63
26 Mg	17194.44	P	384.60	2.24
27 Al	21831.11	P	434.00	1.99
39 K	899914.69	A	7430.00	0.83
44 Ca	11686.66	P	230.00	1.97
45 Sc	570215.63	P	10330.00	1.81
51 V	3035.66	P	272.00	8.96
52 Cr	6563.33	P	159.50	2.43
55 Mn	3580.00	P	53.64	1.50
57 Fe	15557.78	P	304.70	1.96
59 Co	2316.67	P	68.88	2.97
60 Ni	980.00	P	116.20	11.86
65 Cu	1146.59	P	52.92	4.62
66 Zn	3461.11	P	33.72	0.97
72 Ge	127254.40	P	925.60	0.73
75 As	293.47	P	80.22	27.34
82 Se	23.78	P	26.22	110.27
95 Mo	615.56	P	66.19	10.75
109 Ag	995.56	P	43.50	4.37
111 Cd	364.07	P	25.75	7.07
115 In	765496.38	M	37710.00	4.93
121 Sb	1010.00	P	78.81	7.80
137 Ba	394.44	P	18.36	4.65
205 Tl	2704.44	P	27.15	1.00
208 Pb	2514.44	P	31.51	1.25
209 Bi	528794.38	P	2733.00	0.52

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	683879.88	0.92	685997.19	99.7	80 - 120	

45	Sc	570215.56	1.81	569607.75	100.1	80 -	120
72	Ge	127254.45	0.73	126761.78	100.4	80 -	120
115	In	765496.44	4.93	747997.81	102.3	80 -	120
209	Bi	528794.38	0.52	526424.38	100.5	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0813a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06F0813a.B\005CALI.D\005CALI.D#
Date Acquired:	Jun 8 2006 02:22 pm
Operator:	
Sample Name:	cs2,s3609
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update:	Jun 08 2006 02:19 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	684565.50	A	1936.00	0.28
9 Be	697.78	P	28.74	4.12
23 Na	497624.41	P	6633.00	1.33
26 Mg	31645.56	P	796.60	2.52
27 Al	23086.67	P	577.60	2.50
39 K	1039192.00	A	13340.00	1.28
44 Ca	15644.93	P	398.50	2.55
45 Sc	567662.19	P	9666.00	1.70
51 V	5337.56	P	317.90	5.96
52 Cr	8544.44	P	252.00	2.95
55 Mn	6055.56	P	235.00	3.88
57 Fe	20421.11	P	306.30	1.50
59 Co	4365.56	P	123.60	2.83
60 Ni	1445.56	P	46.23	3.20
65 Cu	1647.63	P	78.48	4.76
66 Zn	2896.67	P	72.65	2.51
72 Ge	127744.00	P	1536.00	1.20
75 As	475.52	P	83.13	17.48
82 Se	43.11	P	7.73	17.92
95 Mo	1038.89	P	35.01	3.37
109 Ag	1991.11	P	60.03	3.01
111 Cd	570.60	P	54.58	9.57
115 In	749308.00	P	3035.00	0.41
121 Sb	1802.22	P	61.94	3.44
137 Ba	783.33	P	60.09	7.67
205 Tl	4104.44	P	277.50	6.76
208 Pb	4785.56	P	152.10	3.18
209 Bi	528710.00	P	5833.00	1.10

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	684565.56	0.28	685997.19	99.8	80 - 120	

45	Sc	567662.19	1.70	569607.75	99.7	80 -	120
72	Ge	127744.00	1.20	126761.78	100.8	80 -	120
115	In	749308.06	0.41	747997.81	100.2	80 -	120
209	Bi	528710.00	1.10	526424.38	100.4	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0813a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**

ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0813a.B\006CALI.D\006CALI.D#
Date Acquired: Jun 8 2006 02:28 pm
Operator:
Sample Name: cs3,s3610
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 08 2006 02:24 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	697412.13	A	7731.00	1.11
9	Be	1347.78	P	61.85	4.59
23	Na	955416.13	A	14890.00	1.56
26	Mg	60677.78	P	443.90	0.73
27	Al	28537.78	P	407.80	1.43
39	K	1353724.00	A	7637.00	0.56
44	Ca	30835.40	P	877.30	2.85
45	Sc	574061.13	P	7454.00	1.30
51	V	9631.13	P	266.40	2.77
52	Cr	12013.33	P	215.50	1.79
55	Mn	10954.44	P	214.10	1.95
57	Fe	29553.33	P	416.80	1.41
59	Co	8388.89	P	50.92	0.61
60	Ni	2343.33	P	51.32	2.19
65	Cu	2493.06	P	101.20	4.06
66	Zn	6434.44	P	134.30	2.09
72	Ge	129171.30	P	918.50	0.71
75	As	1049.83	P	55.22	5.26
82	Se	75.11	P	13.67	18.20
95	Mo	2010.00	P	104.40	5.19
109	Ag	3906.67	P	33.83	0.87
111	Cd	975.21	P	45.24	4.64
115	In	758439.13	P	3979.00	0.52
121	Sb	3390.00	P	155.10	4.58
137	Ba	1426.67	P	86.22	6.04
205	Tl	7030.00	P	203.30	2.89
208	Pb	9251.11	P	168.30	1.82
209	Bi	531401.13	P	3003.00	0.57

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	697412.13	1.11	685997.19	101.7	80 - 120	

45	Sc	574061.06	1.30	569607.75	100.8	80 -	120
72	Ge	129171.34	0.71	126761.78	101.9	80 -	120
115	In	758439.13	0.52	747997.81	101.4	80 -	120
209	Bi	531401.06	0.57	526424.38	100.9	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0813a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0813a.B\007CALI.D\007CALI.D#
Date Acquired: Jun 8 2006 02:34 pm
Operator:
Sample Name: cs4,s3611
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 08 2006 02:30 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	692358.63	A	836.10	0.12
9 Be	13638.89	P	385.30	2.83
23 Na	7086559.00	A	33270.00	0.47
26 Mg	599849.13	M	33400.00	5.57
27 Al	65275.55	P	1225.00	1.88
39 K	6454875.00	A	85190.00	1.32
44 Ca	182953.41	P	2530.00	1.38
45 Sc	574045.63	P	9113.00	1.59
51 V	82144.21	P	796.40	0.97
52 Cr	75010.00	P	533.60	0.71
55 Mn	93953.33	P	952.70	1.01
57 Fe	199847.80	P	3723.00	1.86
59 Co	79201.11	P	533.80	0.67
60 Ni	18218.89	P	225.10	1.24
65 Cu	19340.74	P	119.30	0.62
66 Zn	12417.78	P	142.80	1.15
72 Ge	130366.00	P	827.30	0.63
75 As	9438.99	P	101.10	1.07
82 Se	633.11	P	2.78	0.44
95 Mo	17733.33	P	432.10	2.44
109 Ag	37875.56	P	593.00	1.57
111 Cd	7933.94	P	90.98	1.15
115 In	761523.38	P	6837.00	0.90
121 Sb	32206.67	P	777.40	2.41
137 Ba	12958.89	P	278.10	2.15
205 Tl	62136.66	P	2132.00	3.43
208 Pb	89111.11	P	819.50	0.92
209 Bi	540384.38	P	5293.00	0.98

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	692358.56	0.12	685997.19	100.9	80 - 120	

45	Sc	574045.56	1.59	569607.75	100.8	80 - 120
72	Ge	130366.00	0.63	126761.78	102.8	80 - 120
115	In	761523.38	0.90	747997.81	101.8	80 - 120
209	Bi	540384.38	0.98	526424.38	102.7	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0813a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0813a.B\008CALI.D\008CALI.D#
Date Acquired: Jun 8 2006 02:39 pm
Operator:
Sample Name: cs5,s3605
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 08 2006 02:35 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	685088.81	A	8556.00	1.25
9	Be	134453.30	P	1678.00	1.25
23	Na	67876800.00	A	390300.00	0.58
26	Mg	6019099.00	A	5012.00	0.08
27	Al	476663.31	P	8774.00	1.84
39	K	56296380.00	A	544800.00	0.97
44	Ca	1830734.00	A	30780.00	1.68
45	Sc	573024.38	P	10830.00	1.89
51	V	893018.63	A	4412.00	0.49
52	Cr	702661.13	P	12530.00	1.78
55	Mn	1008615.00	A	8264.00	0.82
57	Fe	2051407.00	A	7335.00	0.36
59	Co	807247.69	M	35280.00	4.37
60	Ni	171225.59	P	2829.00	1.65
65	Cu	188870.50	P	2947.00	1.56
66	Zn	100937.80	P	1526.00	1.51
72	Ge	131901.09	P	1773.00	1.34
75	As	94943.47	P	1238.00	1.30
82	Se	6168.89	P	75.18	1.22
95	Mo	177088.91	P	2453.00	1.39
109	Ag	375770.00	P	4528.00	1.21
111	Cd	77704.01	P	1437.00	1.85
115	In	748575.00	P	10620.00	1.42
121	Sb	321297.81	P	5499.00	1.71
137	Ba	128342.20	P	2184.00	1.70
205	Tl	641881.13	P	16270.00	2.53
208	Pb	879508.81	P	18230.00	2.07
209	Bi	532995.63	P	9965.00	1.87

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	685088.81	1.25	685997.19	99.9	80 - 120	

45	Sc	573024.38	1.89	569607.75	100.6	80 -	120
72	Ge	131901.11	1.34	126761.78	104.1	80 -	120
115	In	748575.00	1.42	747997.81	100.1	80 -	120
209	Bi	532995.56	1.87	526424.38	101.2	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0813a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass

ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0813a.B\009CALI.D\009CALI.D#
Date Acquired: Jun 8 2006 02:45 pm
Operator:
Sample Name: cs6,s3606
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 08 2006 02:41 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	678449.19	A	5899.00	0.87
9 Be	268823.31	P	2308.00	0.86
23 Na	134496800.00	A	2754000.00	2.05
26 Mg	11933250.00	A	101000.00	0.85
27 Al	1027759.00	A	19700.00	1.92
39 K	109608300.00	A	1161000.00	1.06
44 Ca	3531679.00	A	51440.00	1.46
45 Sc	562864.38	P	8775.00	1.56
51 V	1775197.00	A	15030.00	0.85
52 Cr	1472580.00	A	5238.00	0.36
55 Mn	1958015.00	A	19950.00	1.02
57 Fe	3957152.00	A	16940.00	0.43
59 Co	1685675.00	A	6920.00	0.41
60 Ni	334898.91	P	484.70	0.14
65 Cu	368013.00	P	2239.00	0.61
66 Zn	194973.30	P	3634.00	1.86
72 Ge	130554.90	P	441.50	0.34
75 As	189257.91	P	1846.00	0.98
82 Se	12138.89	P	179.70	1.48
95 Mo	354583.31	P	3937.00	1.11
109 Ag	737268.88	P	4419.00	0.60
111 Cd	150888.30	P	2345.00	1.55
115 In	730420.69	P	9485.00	1.30
121 Sb	633215.50	P	8245.00	1.30
137 Ba	251127.80	P	2311.00	0.92
205 Tl	1383145.00	A	4193.00	0.30
208 Pb	1784630.00	A	15030.00	0.84
209 Bi	512137.69	P	5824.00	1.14

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	678449.19	0.87	685997.19	98.9	80 - 120	

45	Sc	562864.38	1.56	569607.75	98.8	80 -	120
72	Ge	130554.88	0.34	126761.78	103.0	80 -	120
115	In	730420.69	1.30	747997.81	97.7	80 -	120
209	Bi	512137.75	1.14	526424.38	97.3	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0813a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Summary

Calibration : C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Calib: Jun 08, 2006 14:46
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\06f0813a.b\003calb.d\	003calb.d#	Jun 8 2006 02:11 pm
2	...hem\1\data\06f0813a.b\004cali.d\	004cali.d#	Jun 8 2006 02:17 pm
3	...hem\1\data\06f0813a.b\005cali.d\	005cali.d#	Jun 8 2006 02:22 pm
4	...hem\1\data\06f0813a.b\006cali.d\	006cali.d#	Jun 8 2006 02:28 pm
5	...hem\1\data\06f0813a.b\007cali.d\	007cali.d#	Jun 8 2006 02:34 pm
6	...hem\1\data\06f0813a.b\008cali.d\	008cali.d#	Jun 8 2006 02:39 pm
7	...hem\1\data\06f0813a.b\009cali.d\	009cali.d#	Jun 8 2006 02:45 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	Excluded	---	ppb
Be	9	6	Y = 9.884E-2*X +5.181E-3(blank)	---	ppb
Na	23	45	Y = 5.957E-1*X +1.371E+1(blank)	---	ppb
Mg	25	45	Excluded	---	ppb
Mg	26	45	Y = 5.290E-2*X +2.574E-1(blank)	---	ppb
Al	27	45	Y = 4.378E-1*X +1.754E+0(blank)	---	ppb
K	39	45	Y = 4.839E-1*X +6.450E+1(blank)	---	ppb
Ca	43	45	Excluded	---	ppb
Ca	44	45	Y = 1.571E-2*X +5.432E-1(blank)	---	ppb
Sc	45	---	Excluded	---	ppb
V	51	72	Y = 3.392E+0*X +6.345E-1(blank)	---	ppb
Cr	52	72	Y = 2.777E+0*X +1.960E+0(blank)	---	ppb
Cr	53	72	Excluded	---	ppb
Fe	54	72	Excluded	---	ppb
Mn	55	72	Y = 3.761E+0*X +4.466E-1(blank)	---	ppb
Fe	57	72	Y = 7.592E-2*X +4.049E+0(blank)	---	ppb
Co	59	72	Y = 3.194E+0*X +1.205E-1(blank)	---	ppb
Ni	60	72	Y = 6.418E-1*X +1.946E-1(blank)	---	ppb
Cu	63	72	Excluded	---	ppb
Cu	65	72	Y = 7.057E-1*X +2.195E-1(blank)	---	ppb
Zn	66	72	Y = 3.701E-1*X +8.642E-1(blank)	---	ppb
Ge	72	---	Excluded	---	ppb
As	75	72	Y = 3.619E-1*X +5.729E-3(blank)	---	ppb
(As)	77	72	Excluded	---	ppb
Se	82	72	Y = 2.324E-2*X +6.041E-3(blank)	---	ppb
(As)	83	72	Excluded	---	ppb
(Ca)	88	72	Excluded	---	ppb
Y	89	72	Excluded	---	ppb
Mo	95	72	Y = 6.771E-1*X +6.310E-2(blank)	---	ppb
Mo	98	72	Excluded	---	ppb
(Mo)	99	72	Excluded	---	ppb
(Cd)	106	72	Excluded	---	ppb
(Cd)	108	72	Excluded	---	ppb
Ag	109	72	Y = 1.414E+0*X +2.496E-2(blank)	---	ppb
Cd	111	72	Y = 2.896E-1*X +7.089E-2(blank)	---	ppb
Cd	114	72	Excluded	---	ppb
In	115	---	Excluded	---	ppb
(In)	118	---	Excluded	---	ppb
Sb	121	115	Y = 2.162E-1*X +1.217E-2(blank)	---	ppb
Ba	135	115	Excluded	---	ppb
Ba	137	115	Y = 8.588E-2*X +4.965E-3(blank)	---	ppb
Tb	159	---	Excluded	---	ppb
Er	166	115	Excluded	---	ppb
Tl	205	209	Y = 6.595E-1*X +1.467E-1(blank)	---	ppb
(Pb)	206	209	Excluded	---	ppb
(Pb)	207	209	Excluded	---	ppb
Pb	208	209	Y = 8.617E-1*X +3.292E-2(blank)	---	ppb
Bi	209	---	Excluded	---	ppb
Th	232	209	--------	---	ppb
U	238	209	--------	---	ppb

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56229800010 File : f0813010 Time : 08-JUN-2006 14:50
Cal : 56229800002 Caldate: 08-JUN-2006
Standards: S3601

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	1.5987	0.4432	100.0	97.25	ug/L	-3	10	
Antimony	0.2285	0.2184	100.0	101.0	ug/L	1	10	
Arsenic	0.3726	0.3713	100.0	102.6	ug/L	3	10	
Barium	0.0931	0.0869	100.0	101.1	ug/L	1	10	
Beryllium	0.1026	0.1014	100.0	102.5	ug/L	3	10	
Cadmium	0.3806	0.2998	100.0	103.3	ug/L	3	10	
Calcium	0.0204	0.0163	10000	10360	ug/L	4	10	
Chromium	3.9397	2.6889	100.0	96.13	ug/L	-4	10	
Cobalt	3.2724	3.0199	100.0	94.52	ug/L	-5	10	
Copper	0.8835	0.7186	100.0	101.5	ug/L	2	10	
Iron	0.1009	0.0791	10000	10360	ug/L	4	10	
Lead	0.8746	0.8449	100.0	98.01	ug/L	-2	10	
Magnesium	0.0533	0.0547	10000	10330	ug/L	3	10	
Manganese	4.2973	3.8851	100.0	103.2	ug/L	3	10	
Molybdenum	0.7244	0.6759	100.0	99.73	ug/L	0	10	
Nickel	0.9280	0.6525	100.0	101.4	ug/L	1	10	
Potassium	0.9101	0.5037	10000	10280	ug/L	3	10	
Selenium	0.0267	0.0239	100.0	102.5	ug/L	3	10	
Silver	1.4874	1.4495	100.0	102.5	ug/L	3	10	
Sodium	0.7033	0.6143	10000	10290	ug/L	3	10	
Thallium	0.6579	0.6256	50.00	47.20	ug/L	-6	10	
Vanadium	3.5685	3.3986	100.0	100.0	ug/L	0	10	
Zinc	1.1981	0.3883	100.0	102.6	ug/L	3	10	

ISTD (ICALBLK f0813003)	ICALBLK Abund	Abund	%Drift
Lithium	685997	680316	-0.83
Scandium	569608	564687	-0.86
Germanium	126762	130950	3.30
Indium	747998	730612	-2.32
Bismuth	526424	518698	-1.47

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56229800028 File : f0813028 Time : 08-JUN-2006 16:31
Cal : 56229800002 Caldate: 08-JUN-2006
Standards: S3602

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.5987	0.4205	100.0	92.05	ug/L	-8	10	
Antimony	0.2285	0.2154	100.0	99.56	ug/L	0	10	
Arsenic	0.3726	0.3686	100.0	101.9	ug/L	2	10	
Barium	0.0931	0.0852	100.0	99.19	ug/L	-1	10	
Beryllium	0.1026	0.0985	100.0	99.62	ug/L	0	10	
Cadmium	0.3806	0.3026	100.0	104.2	ug/L	4	10	
Calcium	0.0204	0.0162	10000	10270	ug/L	3	10	
Chromium	3.9397	2.7457	100.0	98.18	ug/L	-2	10	
Cobalt	3.2724	3.0500	100.0	95.47	ug/L	-5	10	
Copper	0.8835	0.7233	100.0	102.2	ug/L	2	10	
Iron	0.1009	0.0805	10000	10550	ug/L	6	10	
Lead	0.8746	0.8346	100.0	96.82	ug/L	-3	10	
Magnesium	0.0533	0.0500	10000	9455	ug/L	-5	10	
Manganese	4.2973	3.9746	100.0	105.6	ug/L	6	10	
Molybdenum	0.7244	0.6761	100.0	99.76	ug/L	0	10	
Nickel	0.9280	0.6587	100.0	102.3	ug/L	2	10	
Potassium	0.9101	0.4834	10000	9856	ug/L	-1	10	
Selenium	0.0267	0.0239	100.0	102.4	ug/L	2	10	
Silver	1.4874	1.4758	100.0	104.3	ug/L	4	10	
Sodium	0.7033	0.5697	10000	9541	ug/L	-5	10	
Thallium	0.6579	0.5974	50.00	45.06	ug/L	-10	10	
Vanadium	3.5685	3.3524	100.0	98.64	ug/L	-1	10	
Zinc	1.1981	0.3867	100.0	102.2	ug/L	2	10	

ISTD (ICALBLK f0813003)	ICALBLK Abund	Abund	%Drift
Lithium	685997	637859	-7.02
Scandium	569608	532426	-6.53
Germanium	126762	119583	-5.66
Indium	747998	694567	-7.14
Bismuth	526424	486212	-7.64

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56229800038 File : f0813038 Time : 08-JUN-2006 17:26
Cal : 56229800002 Caldate: 08-JUN-2006
Standards: S3602, S3310

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.5987	0.3829	100.0	83.46	ug/L	**-17**	10	c- ***
Antimony	0.2285	0.2179	100.0	100.7	ug/L	1	10	
Arsenic	0.3726	0.3651	100.0	100.9	ug/L	1	10	
Barium	0.0931	0.0856	100.0	99.61	ug/L	0	10	
Beryllium	0.1026	0.0983	100.0	99.43	ug/L	-1	10	
Cadmium	0.3806	0.3112	100.0	107.2	ug/L	7	10	
Calcium	0.0204	0.0163	10000	10350	ug/L	4	10	
Chromium	3.9397	2.8097	100.0	100.5	ug/L	1	10	
Cobalt	3.2724	3.0771	100.0	96.32	ug/L	-4	10	
Copper	0.8835	0.7238	100.0	102.3	ug/L	2	10	
Iron	0.1009	0.0818	10000	10720	ug/L	7	10	
Lead	0.8746	0.8336	100.0	96.70	ug/L	-3	10	
Magnesium	0.0533	0.0464	10000	8769	ug/L	**-12**	10	c- ***
Manganese	4.2973	4.0476	100.0	107.5	ug/L	8	10	
Molybdenum	0.7244	0.6851	100.0	101.1	ug/L	1	10	
Nickel	0.9280	0.6628	100.0	103.0	ug/L	3	10	
Potassium	0.9101	0.4722	10000	9626	ug/L	-4	10	
Selenium	0.0267	0.0236	100.0	101.5	ug/L	2	10	
Silver	1.4874	1.5206	100.0	107.5	ug/L	8	10	
Sodium	0.7033	0.5219	10000	8739	ug/L	**-13**	10	c- ***
Thallium	0.6579	0.6514	50.00	49.16	ug/L	-2	10	
Vanadium	3.5685	3.2496	100.0	95.61	ug/L	-4	10	
Zinc	1.1981	0.3910	100.0	103.3	ug/L	3	10	

ISTD (ICALBLK f0813003)	ICALBLK Abund	Abund	%Drift
Lithium	685997	562988	-17.93
Scandium	569608	503817	-11.55
Germanium	126762	110492	-12.83
Indium	747998	661003	-11.63
Bismuth	526424	455602	-13.45

-=low bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56229800013 File : f0813013 Time : 08-JUN-2006 15:07
Cal : 56229800002 Caldate: 08-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.01216]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.04698]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0813003)	ICALBLK Abund	Abund	%Drift
Lithium	685997	688851	0.42
Scandium	569608	566511	-0.54
Germanium	126762	128430	1.32
Indium	747998	745399	-0.35
Bismuth	526424	527128	0.13

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56229800030 File : f0813030 Time : 08-JUN-2006 16:42
Cal : 56229800002 Caldate: 08-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	1.612	0.5000	2.123	ug/L	ib ***
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.02107]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.02881]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	[10.74]	50.00	6.980	ug/L	!ib
Lead	[0.01947]	0.2500	0.005283	ug/L	!ib
Magnesium	[7.671]	50.00	3.054	ug/L	!ib
Manganese	[0.04367]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.02767]	0.2500	0.01266	ug/L	!ib
Sodium	[20.60]	50.00	9.919	ug/L	!ib
Thallium	[0.03251]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0813003)	ICALBLK Abund	Abund	%Drift
Lithium	685997	650726	-5.14
Scandium	569608	533176	-6.40
Germanium	126762	118279	-6.69
Indium	747998	706188	-5.59
Bismuth	526424	492632	-6.42

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56229800040 File : f0813040 Time : 08-JUN-2006 17:38
Cal : 56229800002 Caldate: 08-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	0.6324	0.5000	2.123	ug/L	ib ***
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	[0.09872]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1029]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0813003)	ICALBLK Abund	Abund	%Drift
Lithium	685997	572210	-16.59
Scandium	569608	509584	-10.54
Germanium	126762	110645	-12.71
Indium	747998	681676	-8.87
Bismuth	526424	461887	-12.26

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56229800014 File : f0813014 Time : 08-JUN-2006 15:13
Cal : 56229800002 Caldate: 08-JUN-2006
Standards: S3612, S3310

Analyte	Quant	RL	Units	Flags
Antimony	2.236	0.2500	ug/L	
Arsenic	0.9069	0.5000	ug/L	
Barium	0.9471	0.2500	ug/L	
Beryllium	[0.01440]	0.2500	ug/L	
Cadmium	[0.09125]	0.2500	ug/L	
Chromium	1.372	0.5000	ug/L	
Cobalt	2.576	0.2500	ug/L	
Copper	1.934	0.5000	ug/L	
Lead	1.196	0.2500	ug/L	
Manganese	0.9427	0.2500	ug/L	
Nickel	1.665	0.2500	ug/L	
Selenium	0.5550	0.5000	ug/L	
Silver	[0.1565]	0.2500	ug/L	
Thallium	[0.1178]	0.5000	ug/L	
Vanadium	[0.1208]	0.5000	ug/L	
Zinc	3.452	0.5000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	86160	ug/L	86
Calcium	300000	295100	ug/L	98
Iron	250000	239100	ug/L	96
Magnesium	100000	89230	ug/L	89
Molybdenum	2000	1999	ug/L	100
Potassium	100000	94330	ug/L	94
Sodium	250000	215500	ug/L	86

ISTD (ICALBLK f0813003)	ICALBLK Abund	Abund	%Drift
Lithium	685997	546768	-20.30
Scandium	569608	499086	-12.38
Germanium	126762	113227	-10.68
Indium	747998	609007	-18.58
Bismuth	526424	416617	-20.86

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56229800015 File : f0813015 Time : 08-JUN-2006 15:18
Cal : 56229800002 Caldate: 08-JUN-2006
Standards: S3620, S3310

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	83120	ug/L	-17		
Arsenic	100.0	110.2	ug/L	10	20	
Cadmium	100.0	102.7	ug/L	3	20	
Calcium	300000	292400	ug/L	-3		
Chromium	200.0	222.1	ug/L	11	20	
Cobalt	200.0	214.8	ug/L	7	20	
Copper	200.0	201.6	ug/L	1	20	
Iron	250000	238400	ug/L	-5		
Magnesium	100000	85300	ug/L	-15		
Manganese	200.0	220.0	ug/L	10	20	
Molybdenum	2000	1998	ug/L	0		
Nickel	200.0	204.2	ug/L	2	20	
Potassium	100000	91720	ug/L	-8		
Selenium	100.0	99.40	ug/L	-1	20	
Silver	50.00	51.88	ug/L	4	20	
Sodium	250000	207200	ug/L	-17		
Vanadium	200.0	225.9	ug/L	13	20	
Zinc	100.0	111.7	ug/L	12	20	

ISTD (ICALBLK f0813003)	ICALBLK Abund	Abund	%Drift
Scandium	569608	486231	-14.64
Germanium	126762	109702	-13.46

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56229800033 File : f0813033 Time : 08-JUN-2006 16:59
Cal : 56229800002 Caldate: 08-JUN-2006
Standards: S3612, S3310

Analyte	Quant	RL	Units	Flags
Antimony	2.218	0.2500	ug/L	
Arsenic	0.9186	0.5000	ug/L	
Barium	0.9623	0.2500	ug/L	
Beryllium	[0.01722]	0.2500	ug/L	
Cadmium	[0.07568]	0.2500	ug/L	
Chromium	1.387	0.5000	ug/L	
Cobalt	2.610	0.2500	ug/L	
Copper	1.929	0.5000	ug/L	
Lead	1.194	0.2500	ug/L	
Manganese	1.005	0.2500	ug/L	
Nickel	1.708	0.2500	ug/L	
Selenium	[0.3914]	0.5000	ug/L	
Silver	[0.1780]	0.2500	ug/L	
Thallium	[0]	0.5000	ug/L	
Vanadium	[0.1620]	0.5000	ug/L	
Zinc	3.671	0.5000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	77330	ug/L	77
Calcium	300000	291300	ug/L	97
Iron	250000	240500	ug/L	96
Magnesium	100000	79370	ug/L	79
Molybdenum	2000	2029	ug/L	101
Potassium	100000	91030	ug/L	91
Sodium	250000	192500	ug/L	77

ISTD (ICALBLK f0813003)	ICALBLK Abund	Abund	%Drift
Lithium	685997	485161	-29.28
Scandium	569608	478008	-16.08
Germanium	126762	103635	-18.24
Indium	747998	588472	-21.33
Bismuth	526424	394112	-25.13

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56229800034 File : f0813034 Time : 08-JUN-2006 17:04
Cal : 56229800002 Caldate: 08-JUN-2006
Standards: S3620, S3310

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	75080	ug/L	-25		
Arsenic	100.0	108.9	ug/L	9	20	
Cadmium	100.0	105.9	ug/L	6	20	
Calcium	300000	290600	ug/L	-3		
Chromium	200.0	227.3	ug/L	14	20	
Cobalt	200.0	214.5	ug/L	7	20	
Copper	200.0	199.7	ug/L	0	20	
Iron	250000	241500	ug/L	-3		
Magnesium	100000	76700	ug/L	-23		
Manganese	200.0	223.5	ug/L	12	20	
Molybdenum	2000	2026	ug/L	1		
Nickel	200.0	203.6	ug/L	2	20	
Potassium	100000	89690	ug/L	-10		
Selenium	100.0	99.55	ug/L	0	20	
Silver	50.00	53.49	ug/L	7	20	
Sodium	250000	187400	ug/L	-25		
Vanadium	200.0	230.2	ug/L	15	20	
Zinc	100.0	111.1	ug/L	11	20	

ISTD (ICALBLK f0813003)	ICALBLK Abund	Abund	%Drift
Scandium	569608	453849	-20.32
Germanium	126762	97890	-22.78

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56229800 Instrument: MET05 Agilent ICP-MS Begun: 08-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	f0813001	TUN				08-JUN-2006 14:00	1.0	1.0				1	
002	f0813002	X	RINSE			08-JUN-2006 14:06	1.0					2	
003	f0813003	ICALBLK	STD-BLK			08-JUN-2006 14:11	1.0	1.0				2	
004	f0813004	ICAL	CS1			08-JUN-2006 14:17	1.0	1.0				3	
005	f0813005	ICAL	CS2			08-JUN-2006 14:22	1.0	1.0				4	
006	f0813006	ICAL	CS3			08-JUN-2006 14:28	1.0	1.0				5	
007	f0813007	ICAL	CS4			08-JUN-2006 14:34	1.0	1.0				6	
008	f0813008	ICAL	CS5			08-JUN-2006 14:39	1.0	1.0				7	
009	f0813009	ICAL	CS6			08-JUN-2006 14:45	1.0	1.0				8	
010	f0813010	ICV				08-JUN-2006 14:50	1.0	1.0			1	9	
011	f0813011	X	RINSE			08-JUN-2006 14:56	1.0					2	
012	f0813012	X				08-JUN-2006 15:02	1.0	1.0			1	2	
013	f0813013	ICB				08-JUN-2006 15:07	1.0	1.0			1	2	
014	f0813014	ICSA				08-JUN-2006 15:13	1.0	1.0			1	10 2	7:CA=295100
015	f0813015	ICSAB				08-JUN-2006 15:18	1.0	1.0			1	11 2	13:CA=292400
016	f0813016	X	RINSE			08-JUN-2006 15:24	1.0					2	
017	f0813017	X	RINSE			08-JUN-2006 15:29	1.0					2	
018	f0813018	SAMPLE	187112-005	113957	Water	08-JUN-2006 15:35	1.0	1.0			1	2	5:NA=133300
019	f0813019	SAMPLE	187112-006	113957	Filtra	08-JUN-2006 15:41	1.0	1.0	2		1	2	2:NA=191900
020	f0813020	SAMPLE	187112-007	113957	Filtra	08-JUN-2006 15:46	1.0	1.0	2		1	2	2:NA=200500
021	f0813021	SAMPLE	187112-008	113957	Filtra	08-JUN-2006 15:52	1.0	1.0	2		1	2	2:NA=179700
022	f0813022	SAMPLE	187112-009	113957	Filtra	08-JUN-2006 15:57	1.0	1.0	2		1	2	2:NA=207900
023	f0813023	SAMPLE	187112-010	113957	Filtra	08-JUN-2006 16:03	1.0	1.0	2		1	2	2:NA=109100
024	f0813024	SAMPLE	187112-011	113957	Filtra	08-JUN-2006 16:09	1.0	1.0			1	2	
025	f0813025	SAMPLE	187112-012	113957	Filtra	08-JUN-2006 16:14	1.0	1.0	4		1	2	4:NA=188200
026	f0813026	X	RINSE			08-JUN-2006 16:20	1.0					2	
027	f0813027	X				08-JUN-2006 16:25	1.0	1.0	1		1	12	
028	f0813028	CCV				08-JUN-2006 16:31	1.0	1.0			1	12	
029	f0813029	X	RINSE			08-JUN-2006 16:36	1.0					2	
030	f0813030	CCB				08-JUN-2006 16:42	1.0	1.0	1		1	2	
031	f0813031	SAMPLE	187112-013	113957	Water	08-JUN-2006 16:48	1.0	1.0	3		1	2	

Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3602 13=S3621

Analyst: K Carlyon Date: 6/8/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56229800 Instrument: MET05 Agilent ICP-MS Begun: 08-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	f0813032	SAMPLE	187137-001	113957	Filtra	08-JUN-2006 16:53	1.0	1.0	3		1	2	
033	f0813033	ICSA				08-JUN-2006 16:59	1.0	1.0			1	10 2	7:CA=291300
034	f0813034	ICSAB				08-JUN-2006 17:04	1.0	1.0			1	11 2	12:CA=290600
035	f0813035	X	RINSE			08-JUN-2006 17:10	1.0					2	
036	f0813036	X				08-JUN-2006 17:15	1.0					13 2	
037	f0813037	X	RINSE			08-JUN-2006 17:21	1.0					2	
038	f0813038	CCV				08-JUN-2006 17:26	1.0	1.0	3		1	12 2	
039	f0813039	X				08-JUN-2006 17:32	1.0					2	
040	f0813040	CCB				08-JUN-2006 17:38	1.0	1.0	1		1	2	

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Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3602 13=S3621

Analyst: K Carlyn Date: 6/8/06

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187112 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
187112-005	MET14	06/06/06 14:46	1.0															+								
187112-005	MET05	06/07/06 00:51	1.0																							
187112-005	MET08	06/07/06 16:26	1.0																							
187112-005	MET05	06/08/06 00:03	1.0																							
187112-005	MET05	06/08/06 15:35	1.0																							
187112-013	MET05	06/07/06 01:36	1.0																							
187112-013	MET08	06/07/06 17:17	1.0																							
187112-013	MET05	06/08/06 00:48	1.0																							
187112-013	MET14	06/08/06 14:07	1.0															+								
187112-013	MET05	06/08/06 16:48	1.0																							
QC342089	MET05	06/06/06 23:15	1.0		+								+									+		+		
QC342089	MET08	06/07/06 15:17	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342089	MET05	06/07/06 21:37	1.0						+																	
QC342090	MET05	06/06/06 23:21	1.0		+								+									+		+		
QC342090	MET08	06/07/06 15:21	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342090	MET05	06/07/06 21:43	1.0						+																	
QC342091	MET05	06/06/06 23:27	1.0		+								+									+		+		
QC342091	MET08	06/07/06 18:29	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342091	MET05	06/07/06 21:48	1.0						+																	
QC342092	MET05	06/06/06 23:49	1.0		+								+									+		+		
QC342092	MET08	06/07/06 15:48	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342092	MET08	06/07/06 15:57	1.0																							
QC342092	MET05	06/07/06 22:39	1.0						+																	
QC342093	MET05	06/06/06 23:55	1.0		+								+									+		+		
QC342093	MET08	06/07/06 15:50	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342093	MET08	06/07/06 15:59	1.0																							
QC342093	MET05	06/07/06 22:44	1.0						+																	
QC342094	MET05	06/06/06 23:44	5.0		+								+									+		+		
QC342094	MET08	06/07/06 15:52	5.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342094	MET05	06/07/06 22:33	5.0						+																	
QC342095	MET05	06/07/06 00:00	1.0		+	+	+	+			+	+	+	+	+		+		+	+	+	+		+	+	+
QC342095	MET08	06/07/06 16:01	1.0	+						+						+							+			
QC342095	MET05	06/07/06 22:50	1.0						+																	
QC342891	MET14	06/06/06 13:50	1.0															+								
QC342892	MET14	06/06/06 13:52	1.0															+								
QC342893	MET14	06/06/06 13:54	1.0															+								

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187112 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
QC342894	MET14	06/06/06 13:59	1.0															+								
QC342895	MET14	06/06/06 14:01	1.0															+								
QC343229	MET14	06/08/06 13:54	1.0															+								
QC343230	MET14	06/08/06 13:57	1.0															+								
QC343231	MET14	06/08/06 13:59	1.0															+								
QC343232	MET14	06/08/06 14:03	1.0															+								
QC343233	MET14	06/08/06 14:05	1.0															+								

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187112 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	ALS	BAS	BAE	CDA	CAR	CCO	CUE	FEB	PBG	MGN	NIK	SEA	AGA	NAL	TVZ
187112-002	MET05	06/06/06 23:38	1.0		+													
187112-002	MET08	06/07/06 15:44	1.0	+		+			+	+			+	+	+	+	+	+	+	+	+	+	+	+
187112-002	MET05	06/07/06 22:00	1.0						+															
187112-003	MET05	06/07/06 00:11	1.0									+												
187112-003	MET08	06/07/06 16:17	1.0	+		+					+			+	+		+	+	+					+
187112-003	MET08	06/07/06 17:41	10.0							+						+						+		
187112-003	MET05	06/07/06 23:24	1.0						+															
187112-004	MET05	06/07/06 00:17	1.0										+											
187112-004	MET08	06/07/06 16:22	1.0	+		+				+	+			+	+		+	+	+			+		+
187112-004	MET08	06/07/06 17:46	5.0													+								
187112-004	MET05	06/07/06 23:29	1.0						+															
187112-006	MET05	06/07/06 00:56	1.0		+								+								+		+	
187112-006	MET08	06/07/06 16:29	1.0	+		+	+	+		+	+	+		+	+	+	+	+	+	+				+	+
187112-006	MET08	06/07/06 17:50	5.0														+							
187112-006	MET05	06/08/06 00:08	1.0																					
187112-006	MET05	06/08/06 15:41	1.0						+															
187112-007	MET05	06/07/06 01:02	1.0		+								+								+		+	
187112-007	MET08	06/07/06 16:33	1.0	+		+	+	+		+	+	+		+	+	+	+	+	+	+				+	+
187112-007	MET08	06/07/06 18:08	5.0														+							
187112-007	MET05	06/08/06 00:14	1.0																					
187112-007	MET05	06/08/06 15:46	1.0						+															
187112-008	MET05	06/07/06 01:08	1.0		+								+								+		+	
187112-008	MET08	06/07/06 16:37	1.0	+		+	+	+		+	+	+		+	+	+	+	+	+	+				+	+
187112-008	MET08	06/07/06 18:12	5.0														+							
187112-008	MET05	06/08/06 00:20	1.0																					
187112-008	MET05	06/08/06 15:52	1.0						+															
187112-009	MET05	06/07/06 01:13	1.0		+								+								+		+	
187112-009	MET08	06/07/06 16:42	1.0	+			+	+		+	+	+		+	+	+	+	+	+	+				+	+
187112-009	MET08	06/07/06 16:46	1.0			+																		
187112-009	MET08	06/07/06 18:16	5.0														+							
187112-009	MET05	06/08/06 00:25	1.0																					
187112-009	MET05	06/08/06 15:57	1.0						+															
187112-010	MET05	06/07/06 01:19	1.0		+								+								+		+	
187112-010	MET08	06/07/06 16:50	1.0	+		+	+	+		+	+	+		+	+	+	+	+	+	+				+	+
187112-010	MET08	06/07/06 18:21	5.0														+							
187112-010	MET05	06/08/06 00:31	1.0																					
187112-010	MET05	06/08/06 16:03	1.0						+															
187112-011	MET05	06/07/06 01:24	1.0		+								+								+		+	
187112-011	MET08	06/07/06 16:54	1.0	+		+	+	+		+	+	+		+	+	+	+	+	+	+		+		+	+
187112-011	MET05	06/08/06 00:36	1.0																					

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187112 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL	V	ZN
187112-011	MET05	06/08/06 16:09	1.0						+																
187112-012	MET05	06/07/06 01:30	1.0		+								+								+		+		
187112-012	MET08	06/07/06 17:12	1.0	+		+	+	+		+	+	+		+	+	+	+	+	+	+				+	+
187112-012	MET08	06/07/06 18:25	5.0																			+			
187112-012	MET05	06/08/06 00:42	1.0																						
187112-012	MET05	06/08/06 16:14	1.0						+																
QC342089	MET05	06/06/06 23:15	1.0		+								+								+		+		
QC342089	MET08	06/07/06 15:17	1.0	+		+	+	+		+	+	+		+	+	+	+	+	+	+		+		+	+
QC342089	MET05	06/07/06 21:37	1.0						+																
QC342090	MET05	06/06/06 23:21	1.0		+								+								+		+		
QC342090	MET08	06/07/06 15:21	1.0	+		+	+	+		+	+	+		+	+	+	+	+	+	+		+		+	+
QC342090	MET05	06/07/06 21:43	1.0						+																
QC342091	MET05	06/06/06 23:27	1.0		+								+								+		+		
QC342091	MET08	06/07/06 18:29	1.0	+		+	+	+		+	+	+		+	+	+	+	+	+	+		+		+	+
QC342091	MET05	06/07/06 21:48	1.0						+																
QC342092	MET05	06/06/06 23:49	1.0		+								+								+		+		
QC342092	MET08	06/07/06 15:48	1.0	+		+	+	+		+	+	+		+	+	+	+	+	+	+		+		+	+
QC342092	MET08	06/07/06 15:57	1.0																						
QC342092	MET05	06/07/06 22:39	1.0						+																
QC342093	MET05	06/06/06 23:55	1.0		+								+								+		+		
QC342093	MET08	06/07/06 15:50	1.0	+		+	+	+		+	+	+		+	+	+	+	+	+	+		+		+	+
QC342093	MET08	06/07/06 15:59	1.0																						
QC342093	MET05	06/07/06 22:44	1.0						+																
QC342094	MET05	06/06/06 23:44	5.0		+								+								+		+		
QC342094	MET08	06/07/06 15:52	5.0	+		+	+	+		+	+	+		+	+	+	+	+	+	+		+		+	+
QC342094	MET05	06/07/06 22:33	5.0						+																
QC342095	MET05	06/07/06 00:00	1.0		+	+	+	+			+	+	+	+	+		+	+	+	+	+		+	+	+
QC342095	MET08	06/07/06 16:01	1.0	+						+						+						+			
QC342095	MET05	06/07/06 22:50	1.0						+																

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 06-JUN-2006
Sequence: 56226997 (f0615)
Instrument ID: MET05

ICALBLK Filename: f0615003
Date Analyzed: 06-JUN-2006
Time Analyzed: 15:29

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD	409002	289167	59725	466498	483064	713607
LOWER LIMIT	122701	86750	17918	139949	144919	214082
UPPER LIMIT	490803	347000	71670	559798	579677	856328

TYPE	SAMPLE	#						
ICB		013	405030	290944	59491	466354	479114	713124
ICSA		014	337424	261874	52719	388104	386523	636202
SAMPLE	187072-010	018	412742	292786	61626	492719	512976	752212
SAMPLE	187070-007	019	303116	241743	47705	383577	376546	627086
SAMPLE	187070-009	020	386872	292762	56695	425196	396106	681591
SAMPLE	187070-009	022	442871	333333	63210	450973	406632	719436
SAMPLE	187070-007	023	415974	321448	61258	444879	413090	709222
CCV		026	384100	277360	58969	441948	455501	689881
CCB		029	391597	284453	59742	456195	471452	689919
ICSA		030	322707	251638	52181	381882	380000	617352
BLANK	QC342079	034	382501	265449	55626	394739	398608	596558
BS	QC342080	035	387279	275922	56467	402202	407346	628960
BSD	QC342081	036	394347	278613	56841	398783	401604	624068
CCV		037	427199	307673	63320	459278	461141	706889
CCB		039	430212	301447	61676	453145	455232	685153
MSS	187020-001	041	379233	279547	54590	377886	369301	598714
SER	QC342084	042	411044	293063	59874	434491	432844	668002
MS	QC342082	043	391370	284302	55572	377875	370883	607782
MSD	QC342083	044	375553	281803	55451	378524	372506	607261
PDS	QC342085	045	384810	282307	54727	378281	371629	607903
SAMPLE	187020-002	047	375748	275318	55021	382216	376261	601648
SAMPLE	187020-003	048	394976	284741	56569	393073	385692	611151
SAMPLE	187020-004	049	417114	291080	59060	401327	395509	621821
SAMPLE	187020-005	050	406248	285483	55879	382695	374892	604667
SAMPLE	187020-006	051	388553	280379	55590	383800	378059	600618
CCV		053	444276	310377	62882	446223	448979	689988
CCB		056	460363	310703	62428	449303	447419	676982
SAMPLE	187020-007	057	382723	275397	54488	371760	368096	586843

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 06-JUN-2006
Sequence: 56226997 (f0615)
Instrument ID: MET05

ICALBLK Filename: f0615003
Date Analyzed: 06-JUN-2006
Time Analyzed: 15:29

TYPE	SAMPLE	#						
SAMPLE	187020-008	058	387441	280813	55263	376933	374534	595364
SAMPLE	187020-009	059	387563	276616	54727	373828	370104	590463
SAMPLE	187020-010	060	374879	269417	53699	368826	367094	582972
SAMPLE	187020-011	061	376357	266087	54036	383991	385641	596281
SAMPLE	187020-012	062	366293	260157	52923	367246	367178	574873
SAMPLE	187020-013	063	364592	262838	52916	361443	363517	575190
SAMPLE	187020-014	064	364614	263794	51933	351957	345738	562732
SAMPLE	187020-015	065	353711	255904	50809	354787	347287	563969
SAMPLE	187020-011	066	363721	268770	51881	368195	363981	572293
CCV		068	423136	300524	60098	430691	435798	668061
CCB		070	422919	296271	59815	436500	431133	657887
SAMPLE	187020-012	072	375618	275494	53670	370198	367551	583181
SAMPLE	187020-013	073	362422	266677	52426	360001	358934	572319
SAMPLE	187020-014	074	363728	275968	52337	355670	343677	571908
SAMPLE	187020-015	075	376618	273979	53128	363124	351044	576149
ICSA		076	365672	276093	54486	371501	352538	596192
CCV		080	438729	307478	61802	419369	419288	645817
CCB		082	458286	311790	61314	428779	421616	642438
BLANK	QC342089	084	421819	273496	56108	354668	351264	535874
BS	QC342090	085	412951	283114	56242	371794	365868	573354
BSD	QC342091	086	437139	296299	58410	389220	382719	600151
MSS	187112-002	088	397101	283443	55022	363536	354937	565044
SER	QC342094	089	425770	297272	59305	412227	401117	626219
MS	QC342092	090	392164	282917	54847	357553	352764	563211
MSD	QC342093	091	385437	277028	54145	351877	348486	558311
PDS	QC342095	092	389117	277526	53871	354305	345236	560064
SAMPLE	187112-003	094	353001	253001	48273	320891	307108	513310
SAMPLE	187112-004	095	364202	262421	50067	332033	325628	527480
CCV		097	383973	268938	54816	376955	383230	580717
CCB		100	399070	274403	54752	385914	380916	578910
SAMPLE	187112-005	101	330947	237437	47677	319876	311636	503180
SAMPLE	187112-006	102	354268	256934	50162	333499	315166	519528
SAMPLE	187112-007	103	368190	260463	50725	329172	310880	515781
SAMPLE	187112-008	104	348459	255893	49451	327528	313539	508520

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 06-JUN-2006
Sequence: 56226997 (f0615)
Instrument ID: MET05

ICALBLK Filename: f0615003
Date Analyzed: 06-JUN-2006
Time Analyzed: 15:29

TYPE	SAMPLE	#						
SAMPLE	187112-009	105	289000	215301	43182	304650	293780	468504
SAMPLE	187112-010	106	308420	224406	45072	308367	297576	472770
SAMPLE	187112-011	107	331517	225397	46831	321511	318613	475692
SAMPLE	187112-012	108	303457	227559	44761	301271	286114	468234
SAMPLE	187112-013	109	360927	244446	50346	321277	309211	476180
SAMPLE	187137-001	110	366326	246329	49986	326152	312928	485269
CCV		112	369084	261829	53130	360394	355399	547559
CCB		114	387552	267846	53474	376163	362491	554189
SAMPLE	187020-017	116	350288	253729	50143	330715	314591	507530
SAMPLE	187020-018	117	343957	247884	48950	327664	308792	500517
SAMPLE	187020-019	118	316662	231002	46681	315638	301316	485396
SAMPLE	187020-020	119	323777	236057	47252	316326	301658	486339
CCV		121	382792	269839	54671	370146	361298	553952
CCB		124	410496	275257	55531	379673	363170	555920
ICSA		125	334000	249097	49456	314078	288621	493329

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 07-JUN-2006
Sequence: 56228694 (f0719)
Instrument ID: MET05

ICALBLK Filename: f0719003
Date Analyzed: 07-JUN-2006
Time Analyzed: 19:46

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD	566835	419934	79792	561698	398573	726836
LOWER LIMIT	170050	125980	23938	168509	119572	218051
UPPER LIMIT	680202	503921	95751	674038	478288	872203

TYPE	SAMPLE	#						
ICB		013	579739	431764	82073	564734	393207	718414
ICSA		014	513772	395752	75735	451332	302884	603617
SAMPLE	187020-012	018	460911	360243	68520	447641	312288	595119
SAMPLE	187020-013	019	484002	389884	73132	463307	313409	611197
SAMPLE	187020-014	020	511257	410808	74491	460870	303054	615000
SAMPLE	187020-015	021	521768	403010	76708	457678	294153	589628
BLANK	QC342089	023	468786	342322	71622	425845	288230	519894
BS	QC342090	024	493866	364672	73239	442858	302859	554864
BSD	QC342091	025	499968	376097	76223	462142	312914	574288
MSS	187112-002	027	494050	383732	75998	448780	292623	557746
CCV		029	589256	441137	89884	542647	362193	668308
CCB		032	585541	435921	89095	549915	365191	661042
SER	QC342094	033	550393	413751	84827	508669	334799	616738
MS	QC342092	034	510680	394872	78726	448148	292270	563047
MSD	QC342093	035	518079	399691	79255	452110	294619	569079
PDS	QC342095	036	522618	402810	79873	456002	298598	576367
SAMPLE	187020-017	038	534093	402880	80567	468430	305630	577898
SAMPLE	187020-018	039	575912	440309	90066	510920	326848	623550
SAMPLE	187020-019	040	583549	441758	91322	508543	321866	616258
SAMPLE	187020-020	041	599455	451381	94285	518217	328961	624859
SAMPLE	187112-003	042	626502	454400	92851	500868	310516	610504
SAMPLE	187112-004	043	604312	451488	93132	502716	315690	607481
CCV		045	646109	458284	99594*	564032	365276	662236
CCB		047	630393	454676	95329	556845	356384	642150
SAMPLE	187112-005	049	560961	428724	90545	483874	298443	574529
SAMPLE	187112-006	050	573181	430418	89754	488901	300582	584134

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* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 07-JUN-2006
Sequence: 56228694 (f0719)
Instrument ID: MET05

ICALBLK Filename: f0719003
Date Analyzed: 07-JUN-2006
Time Analyzed: 19:46

TYPE	SAMPLE	#							
SAMPLE	187112-007	051	588271	431009	89568	489796	299448	587431	
SAMPLE	187112-008	052	584236	440067	88809	494720	307523	596401	
SAMPLE	187112-009	053	569042	420096	84443	479691	303184	582931	
SAMPLE	187112-010	054	597607	443077	90086	506977	320800	616832	
SAMPLE	187112-011	055	618632	427157	91429	525202	341589	609734	
SAMPLE	187112-012	056	598254	453208	92260	504681	311368	611766	
SAMPLE	187112-013	057	608697	423234	94157	509926	320724	574187	
SAMPLE	187137-001	058	601018	423770	93031	515950	326410	581784	
CCV		060	669362	472200	103053*	574789	368073	665721	
CCB		063	665970	467206	100307*	572606	359429	648117	
ICSA		064	582442	446502	92559	488271	302387	611528	
CCV		067	614815	453713	96086*	549478	357278	658781	
CCB		069	623227	443496	95152	553396	355768	644409	
BLANK	QC342503	071	503633	360247	82154	437998	281146	505050	420
BS	QC342504	072	543666	392497	85180	472023	301976	554148	
BSD	QC342505	073	536106	391489	85034	470542	297984	550752	
CCV		084	577783	421962	91670	508342	323706	589349	
CCB		087	598292	423876	91533	521935	326804	589941	

* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 08-JUN-2006
Sequence: 56229800 (f0813)
Instrument ID: MET05

ICALBLK Filename: f0813003
Date Analyzed: 08-JUN-2006
Time Analyzed: 14:11

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD	685997	569608	126762	747998	526424	1037223
LOWER LIMIT	205799	170882	38029	224399	157927	311167
UPPER LIMIT	823197	683529	152114	897597	631709	1244668

TYPE	SAMPLE	#						
ICB		013	688851	566511	128430	745399	527128	1028620
ICSA		014	546768	499086	113227	609007	416617	848730
SAMPLE	187112-005	018	536573	459158	103500	579995	388894	743593
SAMPLE	187112-006	019	521381	466540	101398	581014	383717	744206
SAMPLE	187112-007	020	538389	470691	102856	582886	385458	747849
SAMPLE	187112-008	021	543463	489297	104787	598442	394347	767050
SAMPLE	187112-009	022	534460	472502	102223	591616	394516	749579
SAMPLE	187112-010	023	530594	484212	103200	600190	399853	769612
SAMPLE	187112-011	024	537253	458123	99749	601673	416173	750357
SAMPLE	187112-012	025	522201	459124	100257	566166	379492	734372
CCV		028	637859	532426	119583	694567	486212	940484
CCB		030	650726	533176	118279	706188	492632	957557
SAMPLE	187112-013	031	534940	421520	103092	557022	386444	680239
SAMPLE	187137-001	032	536354	431216	102604	570972	389736	697288
ICSA		033	485161	478008	103635	588472	394112	781173
CCV		038	562988	503817	110492	661003	455602	883942
CCB		040	572210	509584	110645	681676	461887	897931

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Curtis & Tompkins Laboratories Sample Preparation Summary 31-MAY-2006 10:28

Batch Number : 113957
Date Extracted: 31-MAY-2006
Extracted by : Kevin Gaines
Prep Method : 200.8

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S3085
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
187020-017		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187020-018		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187020-019		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187020-020		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187112-002		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					15MET		
187112-003		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
187112-004		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					14MET		
187112-005		Treadwell & Rollo	Water	50	mL	50	1.000000	1					AG, AS, CD, (more)		
187112-006		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187112-007		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187112-008		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187112-009		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187112-010		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187112-011		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187112-012		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
187112-013		Treadwell & Rollo	Water	50	mL	50	1.000000	1					TAL/ICP		
187137-001		Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					TAL/ICP		
QC342089	BLANK		Filtrate	50	mL	50	1.000000	1					ICAP		
QC342090	BS		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC342091	BSD		Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC342092	MS	of 187112-002	Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC342093	MSD	of 187112-002	Filtrate	50	mL	50	1.000000	1		.5			ICAP		
QC342094	SER	of 187112-002	Filtrate	50	mL	50	1.000000	1					ICAP		
QC342095	PDS	of 187112-002	Filtrate	50	mL	50	1.000000	1					ICAP		

Prep Chemist: [illegible] 5/31/06 Reviewed By: K Carlyon Date: 6/7/06

Relinquished By: [illegible] 5/31/06 Received By: K Carlyon Date: 6/7/06

Water Digestion for ICP-MS Curtis & Tompkins, Ltd.

LIMS Batch #: 113957
Date Digested: 5/31/06
Digested by: [illegible]

Digestion Method
☒ EPA 200.8 for ICP-MS
☐ _____

BK BK 2318
Page 24
Continued From: _____
Continued On: _____

Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BLK	50	50	N	
BS				
BSD				
MS -02				FIELD FILTERED
MSD -02				
187112-02				
-03 A				
-04				
-05 C				TOTALS
-06 A				FIELD FILTERED
-07				
-08				
-09				
-10				
-11				
-12				
-13				TOTALS
137-01 H				FIELD FILTERED
020-17D				
18A				
19				
20				

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90-95 degrees C)	95	[illegible] 5/31
.5 mL of spike solution was added to all spikes	53085	
concentrated HCl	B49025 BAKER	
concentrated HNO3	000020	
☐ filtered thru' Whatman # 541		

[illegible] 5/31/06
Prep Chemist Signature / Date

[illegible] 5/31/06
Reviewer Signature / Date

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

Inst : MET14
Calnum : 846226892001
Units : ug/L

Date : 06-JUN-2006 13:32
X Axis : R

Reviewer: ---
Type : WATER

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	114151	846226892002	STD02REP1	06-JUN-2006 13:34	S3626 (500X)
L2	114151	846226892003	STD03REP1	06-JUN-2006 13:36	S3626 (200X)
L3	114151	846226892004	STD04REP1	06-JUN-2006 13:39	S3626 (50X)
L4	114151	846226892005	STD05REP1	06-JUN-2006 13:41	S3626 (20X)
L5	114151	846226892006	STD06REP1	06-JUN-2006 13:43	S3626 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Mercury	2985.0	2942.0	2817.0	2779.0	2486.5	LINR	-0.1496	3.99E-4		2801.9	0.997	.99	

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Instrument amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

846226892001

WinHg Database 1.5

File Utility Help

RN⇩ RN⇧

Protocol hgppb

Dataset/Proto 060606 /hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 3.98786e-4

C -1.49630e-1

Rho .998440

Type Linear

☑ Calibrated

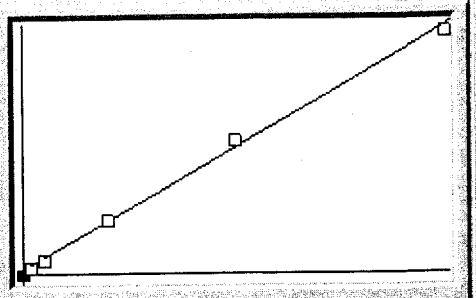
☑ Accepted

Accept

µ Abs.
24865

Accepted

New



Include S1 Rep 1☑ 2☐ 3☐ 4☐ 5☐

06-Jun-06 13:44 Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.080	-.080	175	1	174		
02	.20000	.088	-.112	598	0%	597		
03	.50000	.437	-.063	1472	0%	1471		
04	2.0000	2.10	.097	5634	0%	5634		
05	5.0000	5.39	.392	13895	0%	13895		
06	10.000	9.77	-.234	24866	0%	24865		

Ready NUM

Folder: 060606
Protocol: hgppb
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 7 13:32:00 06 Jun 06 HG

Hg .000 ppb 174
Bkgd 1 20938288

*** Standard: 2 Rep: 1 Seq: 8 13:34:05 06 Jun 06 HG

Hg .200 ppb 597
Bkgd 1 20933458

*** Standard: 3 Rep: 1 Seq: 9 13:36:10 06 Jun 06 HG

Hg .500 ppb 1471
Bkgd 1 20935452

*** Standard: 4 Rep: 1 Seq: 10 13:39:25 06 Jun 06 HG

Hg 2.00 ppb 5634
Bkgd 1 20929328

*** Standard: 5 Rep: 1 Seq: 11 13:41:29 06 Jun 06 HG

Hg 5.00 ppb 13895
Bkgd 1 20928186

*** Standard: 6 Rep: 1 Seq: 12 13:43:37 06 Jun 06 HG

Hg 10.0 ppb 24865
Bkgd 1 20919217

*** Check Standard: 2 Ck2S3628 Seq: 13 13:45:53 06 Jun 06 HG
Line Flag Intensities
Hg 13629
Bkgd 1 20908746

*** Check Standard: 1 Ck1ICB Seq: 14 13:48:16 06 Jun 06 HG
Line Flag Intensities
Hg 26
Bkgd 1 20916990

*** Sample ID: qc342891 Seq: 15 13:50:25 06 Jun 06 HG
114151,1
Hg -.126 ppb 60
Bkgd 1 20919873

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 846226892 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 06-JUN-2006
Analytical Method: EPA 7470A SOP Version: HG_water_rv7
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	114151	ICALBLK	STD01REP1				06-JUN-2006 13:32	1.0	1.0									
002	114151	ICAL	STD02REP1				06-JUN-2006 13:34	1.0	1.0									
003	114151	ICAL	STD03REP1				06-JUN-2006 13:36	1.0	1.0									
004	114151	ICAL	STD04REP1				06-JUN-2006 13:39	1.0	1.0									
005	114151	ICAL	STD05REP1				06-JUN-2006 13:41	1.0	1.0									
006	114151	ICAL	STD06REP1				06-JUN-2006 13:43	1.0	1.0									
007	114151	ICV					06-JUN-2006 13:45	1.0	1.0	2	5.000	846226892001	5.290		ug/L	106		
008	114151	ICB					06-JUN-2006 13:48	1.0	1.0			846226892001	ND	0.20	ug/L			
009	114151	BLANK	QC342891		114151	Filtra	06-JUN-2006 13:50	1.0	1.0			846226892001	ND	0.20	ug/L			u
010	114151	BS	QC342892		114151	Filtra	06-JUN-2006 13:52	1.0	1.0		5.000	846226892001	5.330	0.20	ug/L	107		u
011	114151	BSD	QC342893		114151	Filtra	06-JUN-2006 13:54	1.0	1.0		5.000	846226892001	5.400	0.20	ug/L	108	1	u
012	114151	MSS	187061-013		114151	Filtra	06-JUN-2006 13:56	1.0	1.0			846226892001	ND	0.20	ug/L			u
013	114151	MS	QC342894	187061-013	114151	Filtra	06-JUN-2006 13:59	1.0	1.0		5.000	846226892001	5.270	0.20	ug/L	105		u
014	114151	MSD	QC342895	187061-013	114151	Filtra	06-JUN-2006 14:01	1.0	1.0		5.000	846226892001	5.310	0.20	ug/L	106	1	u
015	114151	SAMPLE	187061-001		114151	Filtra	06-JUN-2006 14:03	1.0	1.0			846226892001	ND	0.20	ug/L			u
016	114151	SAMPLE	187061-002		114151	Filtra	06-JUN-2006 14:05	1.0	1.0			846226892001	ND	0.20	ug/L			u
017	114151	SAMPLE	187061-003		114151	Filtra	06-JUN-2006 14:08	1.0	1.0			846226892001	ND	0.20	ug/L			u
018	114151	SAMPLE	187061-004		114151	Filtra	06-JUN-2006 14:10	1.0	1.0			846226892001	ND	0.20	ug/L			u
019	114151	CCV					06-JUN-2006 14:13	1.0	1.0	3	2.500	846226892001	2.450		ug/L	98		
020	114151	CCB					06-JUN-2006 14:15	1.0	1.0			846226892001	ND	0.20	ug/L			
021	114151	SAMPLE	187061-005		114151	Filtra	06-JUN-2006 14:17	1.0	1.0			846226892001	ND	0.20	ug/L			u
022	114151	SAMPLE	187061-006		114151	Filtra	06-JUN-2006 14:19	1.0	1.0			846226892001	ND	0.20	ug/L			u
023	114151	SAMPLE	187061-007		114151	Filtra	06-JUN-2006 14:21	1.0	1.0			846226892001	ND	0.20	ug/L			u
024	114151	SAMPLE	187061-008		114151	Filtra	06-JUN-2006 14:23	1.0	1.0			846226892001	ND	0.20	ug/L			u
025	114151	SAMPLE	187061-009		114151	Filtra	06-JUN-2006 14:25	1.0	1.0			846226892001	ND	0.20	ug/L			u
026	114151	SAMPLE	187061-010		114151	Filtra	06-JUN-2006 14:28	1.0	1.0			846226892001	ND	0.20	ug/L			u
027	114151	SAMPLE	187061-011		114151	Filtra	06-JUN-2006 14:30	1.0	1.0			846226892001	ND	0.20	ug/L			u
028	114151	SAMPLE	187061-012		114151	Filtra	06-JUN-2006 14:32	1.0	1.0			846226892001	ND	0.20	ug/L			u
029	114151	SAMPLE	187061-014		114151	Filtra	06-JUN-2006 14:34	1.0	1.0			846226892001	ND	0.20	ug/L			u
030	114151	SAMPLE	187061-015		114151	Filtra	06-JUN-2006 14:37	1.0	1.0			846226892001	ND	0.20	ug/L			u
031	114151	CCV					06-JUN-2006 14:39	1.0	1.0	4	5.000	846226892001	5.450		ug/L	109		
032	114151	CCB					06-JUN-2006 14:41	1.0	1.0			846226892001	ND	0.20	ug/L			
033	114151	SAMPLE	187061-016		114151	Filtra	06-JUN-2006 14:44	1.0	1.0			846226892001	ND	0.20	ug/L			u
034	114151	SAMPLE	187112-005		114151	Water	06-JUN-2006 14:46	1.0	1.0			846226892001	ND	0.20	ug/L			u
035	114151	SAMPLE	187173-001		114151	Filtra	06-JUN-2006 14:49	1.0	1.0			846226892001	ND	0.20	ug/L			u
036	114151	SAMPLE	187195-001		114151	Water	06-JUN-2006 14:51	1.0	1.0			846226892001	ND	0.20	ug/L			u
037	114151	SAMPLE	187236-002		114151	Water	06-JUN-2006 14:53	1.0	1.0			846226892001	ND	0.20	ug/L			u
038	114151	CCV					06-JUN-2006 14:55	1.0	1.0	5	7.500	846226892001	7.980		ug/L	106		
039	114151	CCB					06-JUN-2006 14:58	1.0	1.0			846226892001	ND	0.20	ug/L			

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Stds used: 1=S3626 2=S3628 3=S3629 4=S3630 5=S3631
Flags used: u=use

Analyst: _____ Date: 6/6/2006

Curtis & Tompkins Laboratories Sample Preparation Summary 06-JUN-2006 10:53

Batch Number : 114151
Date Extracted: 06-JUN-2006
Extracted by : Kale Clauson
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : mL
Clean-up :

Spike #1 ID : S3626
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
187061-001		Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
187061-002		Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
187061-003		Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
187061-004		Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
187061-005		Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
187061-006		Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
187061-007		Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
187061-008		Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
187061-009		Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
187061-010		Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
187061-011		Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
187061-012		Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
187061-013		Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
187061-014		Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
187061-015		Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
187061-016		Acton Mickelson Environmental	Filtrate	50	mL	50	1.000000	1				T26/HG		
187112-005		Treadwell & Rollo	Water	50	mL	50	1.000000	1				HG		
187173-001		LFR Levine Fricke	Filtrate	50	mL	50	1.000000	1				T26/HG		
187195-001		LA Chemical	Water	50	mL	50	1.000000	1				HG		
187236-002		Ghilotti Bros. Contractors	Water	50	mL	50	1.000000	1				T26/HG		
QC342891	BLANK		Filtrate	50	mL	50	1.000000	1				HG		
QC342892	BS		Filtrate	50	mL	50	1.000000	1	2.5			HG		
QC342893	BSD		Filtrate	50	mL	50	1.000000	1	2.5			HG		
QC342894	MS	of 187061-013	Filtrate	50	mL	50	1.000000	1	2.5			HG		
QC342895	MSD	of 187061-013	Filtrate	50	mL	50	1.000000	1	2.5			HG		

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Prep Chemist: _____ Reviewed By: _____ Date: 6/6/6

Relinquished By: _____ Received By: _____ Date: 6/6/2006

Water Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 114151
Date Digested: 6/6/2006
Digested by: KML

Digestion Method
☒ EPA 7470A/ EPA 245.1
☐ _____

BK 2277
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Sample # and letter		Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
187061-001	G	50	50	N	FILTRATE (F.F.)
002					
003					
004					
005					
006					
007					
008					
009					
010					
011					
012					
013MSS	V				
014	G				
015					
016					
187112 - 005	C				WATER
187173 - 001	D				FILTRATE (F.F.)
187195 - 001	A				WATER
187236 - 002					
BLANK					
BS					
BSD					
MS 187061 - 013	V				FILTRATE (F.F)
MSD 187061 - 013	V				

	Reagent ID/ LIMS# / Time	Initials / Date
2.5 mL of spike solution was added to all spikes	S3626	KML 6/6/06
ICAL Source WS#	S3626	
ICV / CCV WS#	S3628/29/30/31	
Digestion of Samples & Standards: Time ON / Temperature ON	1030 / 95°C	
Time OFF/ Temperature OFF	1230 / 95°C	
concentrated H_2SO_4	B41041	
concentrated HNO_3	C06026	
K053006 <5% $KMnO_4$	~~K053006~~ 3006	
5% $K_2S_2O_8$	K_2 051606	
NaCl.hydroxylamine hydrochloride	Hy 053106	
Stannous Chloride	$SnCl_2$ 060506	
☐ filtered thru' 0.45 um syringe filter		

6/6/06
Prep Chemist / Date

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Continued from page
Continued on page

KC 6/6/6
Reviewed by / Date

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

Inst : MET14
Calnum : 846229776001
Units : ug/L

Date : 08-JUN-2006 13:36
X Axis : R

Reviewer: ---
Type : WATER

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	114238	846229776002	STD02REP1	08-JUN-2006 13:38	S3647 (500X)
L2	114238	846229776003	STD03REP1	08-JUN-2006 13:40	S3647 (200X)
L3	114238	846229776004	STD04REP1	08-JUN-2006 13:43	S3647 (50X)
L4	114238	846229776005	STD05REP1	08-JUN-2006 13:46	S3647 (20X)
L5	114238	846229776006	STD06REP1	08-JUN-2006 13:48	S3647 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Mercury	3055.0	2842.0	2817.0	2811.8	2714.9	LINR	-0.0395	3.67E-4		2848.1	1.000	.99	

430

Instrument amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

WinHg Database 1.5

File Utility Help

RN⇩ RN⇧

Protocol hgppb

Dataset/Proto 060806 /hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 3.67250e-4

C -3.94788e-2

Rho .999843

Type Linear

☑ Calibrated

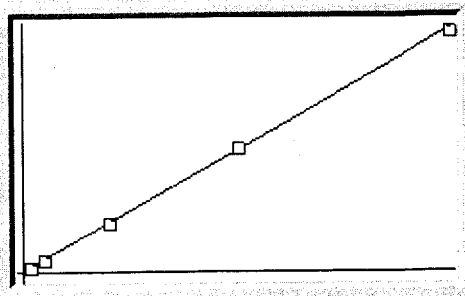
☑ Accepted

Accept

µ Abs.
27149

Accepted

New



Include S1 Rep 1☑ 2☐ 3☐ 4☐ 5☐

08-Jun-06 13:48

Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.052	-.052	-34	0	-33		
02	.20000	.185	-.015	612	0%	611		
03	.50000	.482	-.018	1421	0%	1421		
04	2.0000	2.03	.030	5634	0%	5634		
05	5.0000	5.12	.124	14060	0%	14059		
06	10.000	9.93	-.069	27149	0%	27149		

Ready NUM SCRL

Folder: 060806
Protocol: hgppb
POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Standard: 1 Rep: 1              Seq:  1       13:36:02 08 Jun 06   HG

Hg     .000   ppb       -33
              Bkgd 1    21078490

*** Standard: 2 Rep: 1              Seq:  2       13:38:17 08 Jun 06   HG

Hg     .200   ppb       611
              Bkgd 1    21082033

*** Standard: 3 Rep: 1              Seq:  3       13:40:25 08 Jun 06   HG

Hg     .500   ppb       1421
              Bkgd 1    21085952

*** Standard: 4 Rep: 1              Seq:  4       13:43:35 08 Jun 06   HG

Hg     2.00   ppb       5634
              Bkgd 1    21079254

*** Standard: 5 Rep: 1              Seq:  5       13:46:09 08 Jun 06   HG

Hg     5.00   ppb       14059
              Bkgd 1    21077478

*** Standard: 6 Rep: 1              Seq:  6       13:48:15 08 Jun 06   HG

Hg     10.0   ppb       27149
              Bkgd 1    21069954

*** Check Standard: 2  Ck2S3649     Seq:  7       13:50:30 08 Jun 06   HG
Line   Flag             Intensities
Hg                      13251
              Bkgd 1    21058967

*** Check Standard: 1  Ck1ICB       Seq:  8       13:52:45 08 Jun 06   HG
Line   Flag             Intensities
Hg                      33
              Bkgd 1    21051368

*** Sample ID: qc343229             Seq:  9       13:54:51 08 Jun 06   HG
                          114238,1
Hg    -.013   ppb       73
              Bkgd 1    21049902

=============================================================================
```

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 846229776 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 08-JUN-2006
Analytical Method: EPA 7470A SOP Version: HG_water_rv7
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	114238	ICALBLK	STD01REP1				08-JUN-2006 13:36	1.0	1.0									
002	114238	ICAL	STD02REP1				08-JUN-2006 13:38	1.0	1.0									
003	114238	ICAL	STD03REP1				08-JUN-2006 13:40	1.0	1.0									
004	114238	ICAL	STD04REP1				08-JUN-2006 13:43	1.0	1.0									
005	114238	ICAL	STD05REP1				08-JUN-2006 13:46	1.0	1.0									
006	114238	ICAL	STD06REP1				08-JUN-2006 13:48	1.0	1.0									
007	114238	ICV					08-JUN-2006 13:50	1.0	1.0	2	5.000	846229776001	4.830		ug/L	97		
008	114238	ICB					08-JUN-2006 13:52	1.0	1.0			846229776001	ND	0.20	ug/L			
009	114238	BLANK	QC343229		114238	Water	08-JUN-2006 13:54	1.0	1.0			846229776001	ND	0.20	ug/L			u
010	114238	BS	QC343230		114238	Water	08-JUN-2006 13:57	1.0	1.0		5.000	846229776001	5.180	0.20	ug/L	104		u
011	114238	BSD	QC343231		114238	Water	08-JUN-2006 13:59	1.0	1.0		5.000	846229776001	5.080	0.20	ug/L	102	2	u
012	114238	MSS	187119-010		114238	Filtra	08-JUN-2006 14:01	1.0	1.0			846229776001	ND	0.20	ug/L			u
013	114238	MS	QC343232	187119-010	114238	Filtra	08-JUN-2006 14:03	1.0	1.0		5.000	846229776001	5.140	0.20	ug/L	103		u
014	114238	MSD	QC343233	187119-010	114238	Filtra	08-JUN-2006 14:05	1.0	1.0		5.000	846229776001	5.100	0.20	ug/L	102	1	u
015	114238	SAMPLE	187112-013		114238	Water	08-JUN-2006 14:07	1.0	1.0			846229776001	ND	0.20	ug/L			u
016	114238	SAMPLE	187119-009		114238	Filtra	08-JUN-2006 14:10	1.0	1.0			846229776001	ND	0.20	ug/L			u
017	114238	SAMPLE	187119-011		114238	Filtra	08-JUN-2006 14:12	1.0	1.0			846229776001	ND	0.20	ug/L			u
018	114238	SAMPLE	187161-001		114238	Filtra	08-JUN-2006 14:15	1.0	1.0			846229776001	ND	0.20	ug/L			u
019	114238	CCV					08-JUN-2006 14:17	1.0	1.0	3	2.500	846229776001	2.480		ug/L	99		
020	114238	CCB					08-JUN-2006 14:20	1.0	1.0			846229776001	ND	0.20	ug/L			
021	114238	SAMPLE	187161-002		114238	Filtra	08-JUN-2006 14:22	1.0	1.0			846229776001	ND	0.20	ug/L			u
022	114238	SAMPLE	187161-003		114238	Filtra	08-JUN-2006 14:25	1.0	1.0			846229776001	ND	0.20	ug/L			u
023	114238	SAMPLE	187161-004		114238	Filtra	08-JUN-2006 14:27	1.0	1.0			846229776001	ND	0.20	ug/L			u
024	114238	SAMPLE	187161-005		114238	Filtra	08-JUN-2006 14:29	1.0	1.0			846229776001	ND	0.20	ug/L			u
025	114238	SAMPLE	187161-006		114238	Filtra	08-JUN-2006 14:31	1.0	1.0			846229776001	ND	0.20	ug/L			u
026	114238	SAMPLE	187161-007		114238	Filtra	08-JUN-2006 14:33	1.0	1.0			846229776001	ND	0.20	ug/L			u
027	114238	SAMPLE	187208-005		114238	Water	08-JUN-2006 14:35	1.0	1.0			846229776001	ND	0.20	ug/L			u
028	114238	SAMPLE	187208-006		114238	Water	08-JUN-2006 14:37	1.0	1.0			846229776001	ND	0.20	ug/L			u
029	114238	SAMPLE	187220-003		114238	Water	08-JUN-2006 14:40	1.0	1.0			846229776001	7.9	0.20	ug/L			u
030	114238	SAMPLE	187263-001		114238	Water	08-JUN-2006 14:42	1.0	1.0			846229776001	0.34	0.20	ug/L			u
031	114238	CCV					08-JUN-2006 14:44	1.0	1.0	4	5.000	846229776001	4.980		ug/L	100		
032	114238	CCB					08-JUN-2006 14:46	1.0	1.0			846229776001	ND	0.20	ug/L			
033	114238	SAMPLE	187263-002		114238	Water	08-JUN-2006 14:49	1.0	1.0			846229776001	3.1	0.20	ug/L			u
034	114238	SAMPLE	187263-003		114238	Water	08-JUN-2006 14:51	1.0	1.0			846229776001	ND	0.20	ug/L			u
035	114238	SAMPLE	187297-001		114238	Water	08-JUN-2006 14:53	1.0	1.0			846229776001	ND	0.20	ug/L			u
036	114238	CCV					08-JUN-2006 14:55	1.0	1.0	5	7.500	846229776001	7.250		ug/L	97		
037	114238	CCB					08-JUN-2006 14:58	1.0	1.0			846229776001	ND	0.20	ug/L			

Stds used: 1=S3647 2=S3649 3=S3650 4=S3651 5=S3652
Flags used: u=use

Analyst: _____ Date: 6/8/2006

Curtis & Tompkins Laboratories **Sample Preparation Summary** **08-JUN-2006 11:08**

Batch Number : 114238
Date Extracted: 08-JUN-2006
Extracted by : Kale Clauson
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : mL
Clean-up :

Spike #1 ID : S3647
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
187112-013			Treadwell & Rollo	Water	50	mL	50	1.000000	1					HG		
187119-009			U.S. Army Corps of Engineers	Filtrate	50	mL	50	1.000000	1					TAL/HG		
187119-010			U.S. Army Corps of Engineers	Filtrate	50	mL	50	1.000000	1					TAL/HG		
187119-011			U.S. Army Corps of Engineers	Filtrate	50	mL	50	1.000000	1					TAL/HG		
187161-001			Shaw E&I	Filtrate	50	mL	50	1.000000	1					T26/HG		
187161-002			Shaw E&I	Filtrate	50	mL	50	1.000000	1					T26/HG		
187161-003			Shaw E&I	Filtrate	50	mL	50	1.000000	1					T26/HG		
187161-004			Shaw E&I	Filtrate	50	mL	50	1.000000	1					T26/HG		
187161-005			Shaw E&I	Filtrate	50	mL	50	1.000000	1					T26/HG		
187161-006			Shaw E&I	Filtrate	50	mL	50	1.000000	1					T26/HG		
187161-007			Shaw E&I	Filtrate	50	mL	50	1.000000	1					T26/HG		
187208-005			Columbo Bakery - Interstate Br	Water	50	mL	50	1.000000	1					T26/HG		
187208-006			Columbo Bakery - Interstate Br	Water	50	mL	50	1.000000	1					T26/HG		
187220-003			RMT, Inc.	Water	50	mL	50	1.000000	1					T26/HG		
187263-001			LFR Levine Fricke	Water	50	mL	50	1.000000	1					T26/HG		
187263-002			LFR Levine Fricke	Water	50	mL	50	1.000000	1					T26/HG		
187263-003			LFR Levine Fricke	Water	50	mL	50	1.000000	1					T26/HG		
187297-001			LFR Levine Fricke	Water	50	mL	50	1.000000	1					T26/HG		
QC343229	BLANK			Water	50	mL	50	1.000000	1					HG		
QC343230	BS			Water	50	mL	50	1.000000	1		2.5			HG		
QC343231	BSD			Water	50	mL	50	1.000000	1		2.5			HG		
QC343232	MS	of 187119-010		Filtrate	50	mL	50	1.000000	1		2.5			HG		
QC343233	MSD	of 187119-010		Filtrate	50	mL	50	1.000000	1		2.5			HG		

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Prep Chemist: _____ Reviewed By: K Carlyn Date: 6/8/06

Relinquished By: _____ Received By: _____ Date: 6/8/2006

Curtis & Tompkins, Ltd.

Water Digestion for Mercury

BK 2335

Page 2

LIMS Batch #: 1142780

Date Digested: 6/8/2006

Digested by: KML

Digestion Method

☒ EPA 7470A/ EPA 245.1

☐ _____

Sample # and letter		Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
~~187112 - 004~~ CANCEL KML 6/8		50	50	N	WATER
187112 - 013	K				
~~187112 - 013~~ CANCEL KML 6/8					FILTRATE (F.F.)
187119 - 009	A				
010 MS					
011					
187161 - 001	B				
002					
003					
004					
005					
006					
007					
187208 - 005	A				WATER
006	A				
187220 - 003	G				
187263 - 001					
002					
003					
187297 - 001	D				
BLANK					
BS					
BSD					
MS 187119 - 010	A				FILTRATE (F.F.)
MSD 187119 - 010	A				

2.5 mL of spike solution was added to all spikes

Digestion of Samples & Standards:

	Reagent ID/ LIMS# / Time	Initials / Date
	S3647	KML 6/8/06
ICAL Source WS#	S3647	
ICV / CCV WS#	S3649/50/51/52	
Time ON / Temperature ON	1100 / 95°C	
Time OFF/ Temperature OFF	100 / 95°C	
concentrated H_2SO_4	KML 6/8 ~~B030~~ B41041	
concentrated HNO_3	C06026	
5% $KMnO_4$	K053006	
5% $K_2S_2O_8$	K2051606	
NaCl.hydroxylamine hydrochloride	Hy 053106	
Stannous Chloride	$SnCl_2$ 060506	
☐ filtered thru' 0.45 um syringe filter		

6/8/2006

Prep Chemist / Date

Continued on page _____

Continued on page _____

K Carly 6/8/06

Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 6010B Water
As of 07/05/06

Analyte	Units	MET01	MET07	MET08 A	MET08 R	MET09 A	MET09 R
Aluminum	ug/L	33	19		42		28
Antimony	ug/L	21	3.9	3.6		4.3	
Arsenic	ug/L	120	2.8	1.0		0.80	
Barium	ug/L	2.7	0.13	0.41	0.61	1.6	
Beryllium	ug/L	0.45	0.48	0.21		0.68	
Cadmium	ug/L	2.2	0.29	0.55		1.7	
Calcium	ug/L	64	9.7		51		28
Chromium	ug/L	3.2	0.50	0.56		1.8	
Cobalt	ug/L	7.0	0.68	0.46		1.5	
Copper	ug/L	2.6	0.62	0.71		2.0	
Iron	ug/L	22	24		17		39
Lead	ug/L	71	1.9	0.57		0.46	
Magnesium	ug/L	47	16		15		95
Manganese	ug/L	2.6	0.57	0.60	1.2	1.8	
Molybdenum	ug/L	8.3	2.4	0.43		1.6	
Nickel	ug/L	15	0.74	0.92		2.0	
Potassium	ug/L	300			130		180
Selenium	ug/L	85	4.2	1.6		2.6	
Silver	ug/L	3.5	0.77	1.4		1.2	
Sodium	ug/L	100			39		70
Thallium	ug/L	200	3.5	0.93		1.6	
Vanadium	ug/L	2.4	0.57	0.42		1.5	
Zinc	ug/L	5.8	1.1	1.5	1.6	7.7	
Boron	ug/L	52		14		12	
Tin	ug/L	22		4.4		14	
Titanium	ug/L	2.1		1.0	1.3	3.5	

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 6020 Water 200.8
As of 07/05/06

Analyte	Units	MET05	MET06 A	MET06 E	MET06 H
Aluminum	ug/L	1.0	0.40		
Antimony	ug/L	0.078	0.0093		
Arsenic	ug/L	0.65		0.034	
Barium	ug/L	0.23	0.023		
Beryllium	ug/L	0.055	0.017		
Cadmium	ug/L	0.14	0.0058		
Calcium	ug/L	15	5.6		
Chromium	ug/L	0.085		0.038	
Cobalt	ug/L	0.034		0.0072	
Copper	ug/L	0.31		0.028	
Iron	ug/L	4.2			1.9
Lead	ug/L	0.24	0.013		
Magnesium	ug/L	2.1	0.73		
Manganese	ug/L	0.082		0.011	
Molybdenum	ug/L	0.062	0.0063		
Nickel	ug/L	0.16		0.029	
Potassium	ug/L	8.9	5.3		
Selenium	ug/L	0.35			0.027
Silver	ug/L	0.041	0.0079		
Sodium	ug/L	15		2.7	
Thallium	ug/L	0.073	0.030		
Vanadium	ug/L	0.15		0.026	
Zinc	ug/L	0.52		0.062	

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 7470A Water
As of 07/05/06

Analyte	Units	MET04	MET14
Mercury	ug/L	0.058	0.021

GENERAL CHEMISTRY

Curtis & Tompkins, Ltd.

Total Oil & Grease (HEM)

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Analysis:	EPA 1664A
Project#:	2893.04.51		
Analyte:	Oil & Grease (HEM)	Batch#:	114024
Field ID:	WT052506	Sampled:	05/25/06
Matrix:	Water	Received:	05/26/06
Units:	mg/L	Analyzed:	06/01/06

Type	Lab ID	Result	RL	Diln Fac
SAMPLE	187112-005	ND	4.70	0.9400
BLANK	QC342365	ND	5.00	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Oil & Grease (HEM)

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Analysis:	EPA 1664A
Project#:	2893.04.51		
Analyte:	Oil & Grease (HEM)	Diln Fac:	1.000
Matrix:	Water	Batch#:	114024
Units:	mg/L	Analyzed:	06/01/06

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC342366	40.00	37.40	94	78-114		
BSD	QC342367	40.00	40.10	100	78-114	7	18

RPD= Relative Percent Difference

Analysis:	**Hexane Extractable Material (Total)**	Prep Date:	**01-Jun-06**
Method:	**EPA 1664A**	Analysis Date:	**01-Jun-06**
Matrix:	Water	Batch #:	**114024**
Silica Gel:	No	Analyst:	REB
SOP#:	1664_rv3.doc		

BATCH QC DATA

Sample	Sample Vol (mL)	Dil'n Factor (1000/vol)	Beaker Mass (g)	Total Mass (g)	Residue Mass (g)	**Report** (mg/L)	Reporting Limit (mg/L)	Spike Used (g)	**Recovery,%**	**RPD,%**
MB	1000	1.00	2.5549	2.5550	0.0001	ND	5.00			
BS	1000	1.00	2.5193	2.5567	0.0374	37.400	5.00	0.0400	94	
BSD	1000	1.00	2.5334	2.5735	0.0401	40.100	5.00	0.0400	100	7

SAMPLE DATA

Sample	Sample Vol (mL)	Dil'n Factor (1000/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report** (mg/L)	Reporting Limit (mg/L)	IDF (1000/Vs)
187076-03	900	1.11	2.5305	2.5498	0.0193	21.444	5.56	1.111
187095-01	1060	0.94	2.5619	2.562	0.0001	ND	4.72	0.943
187107-01	300	3.33	2.5308	2.5809	0.0501	167.000	16.67	3.333
187107-02	410	2.44	2.5323	2.6169	0.0846	206.341	12.20	2.439
187107-03	350	2.86	2.5152	2.5536	0.0384	109.714	14.29	2.857
187110-02	300	3.33	2.5645	2.5758	0.0113	37.667	16.67	3.333
187110-04	875	1.14	2.5594	2.5635	0.0041	ND	5.71	1.143
187112-05	1060	0.94	2.5294	2.5301	0.0007	ND	4.72	0.943
187102-04	1060	0.94	2.5078	2.5086	0.0008	ND	4.72	0.943

442

QC Limits	RPD	Recovery
LCS/ BS/ BSD	18	78 - 114
MS/ MSD	28	68 - 124

Reviewed by/ Date: Jen 6/2/06

Oil Grease (H.E.M.) Benchbook EPA 1664A Curtis & Tompkins, Ltd.

LIMS Batch #: 114024 / 114062 Date: 6-1-06 Benchbook#: **BK 2256**

Matrix: Water Time: 1017 Page: **36**

Spike SS#: S 3334 Hexane Manufacturer & Lot# C05E83

Spike SS Conc (mg/L): 8000 Extraction Disc Lot#: 530090

Into Final Vol (mL): 1000 Silica Gel Cleanup Used (Y / N): Y

Spike Conc (mg/L): 40 ST 20 SG Silica Gel Manufacturer & Lot# V3332

	Sample # / Letter	pH	Sample Vol (mL)	Mass (g)	Mass (g)*	Mass (g)*	Comments
1	BLK	<2	1000	2.5549	2.5550	2.5551	
	BS		1000	2.5193	2.5567	2.5567	
	BSD		1000	2.5334	2.5735	2.5732	
	186979-02		1060	2.5497	2.5499	2.5497	
5	187011-01		1060	2.5449	2.5614	2.5614	
	187076-03		900	2.5305	2.5498	2.5499	
	187095-01		1060	2.5619	2.5620	2.5618	
	187107-01		300	2.5308	2.5809	2.5810	
	-02		~~300~~ 410	2.5323	2.6169	2.6166	
10	-03		~~300~~ 352	2.5152	2.5536	2.5536	
	187110-02		~~300~~ 300	2.5645	2.5758	2.5756	
	-04		875	2.5594	2.5635	2.5633	
	187112-05		1060	2.5294	2.5301	2.5302	
	187102-04		1060	2.5078	2.5086	2.5081	
15							
	BLK-SG	<2	1000	2.5549	2.5550	2.5551	
	BS-SG		1000	2.5193	2.5351	2.5350	
	BSD-SG		1000	2.5334	2.5499	2.5500	
	~~187110-02 SG~~	~~1000~~	~~300~~	~~2.5645~~			
20	187011-01		1060	2.5449	2.5542	2.5543	
	186979-02		1060	2.5497	2.5499	2.5497	MD from totals

* Constant weight must be within ± 0.0005g from previous reading.

Weight Set Number: HEM 30500

	Openning Wt.	Ending Wt.	Limits
2 mg	0.0020	[illegible]	(0.0018 to 0.0022 g)
1 g	0.9999	[illegible]	(0.9950 to 1.0050 g)
5 g	5.0000	[illegible]	(4.9750 to 5.0250 g)

CSB 6-2-06 Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 114024
Date Started: 01-JUN-2006
Batched by : Robert E. Butler

Analysis : 1664T
Bgroup : N/A
Department : Wet Chemistry

Sample	Type	Client	Matrix	Analyses	Due Date
187076-003		CH2M Hill Construc	Water	1664T	02-JUN-2006
187095-001		Unitek Environment	Water	1664T	08-JUN-2006
187102-004		IMTT	Water	1664T	08-JUN-2006
187107-001		Union Sanitary Dis	Water	1664T	08-JUN-2006
187107-002		Union Sanitary Dis	Water	1664T	08-JUN-2006
187107-003		Union Sanitary Dis	Water	1664T	08-JUN-2006
187110-002		Union Sanitary Dis	Water	1664T	08-JUN-2006
187110-004		Union Sanitary Dis	Water	1664T	08-JUN-2006
187112-005		Treadwell & Rollo	Water	1664T	08-JUN-2006
QC342365	BLANK		Water	1664T	
QC342366	BS		Water	1664T	
QC342367	BSD		Water	1664T	

Hexane Extractable Material
EPA 1664
Method Detection Limit Study

Method Detection Limit Study

Analysis:	Oil & Grease	Prep Date:	9-Jun-06
Method:	**EPA 1664** w/o silica gel	Analysis Date:	6/9/2006
Matrix:	Water	Analyst:	REB

Conc. (mg/L)	2.0
1	1.6
2	1.9
3	1.7
4	1.9
5	2.2
6	2.2
7	2.3
STDEVP	0.24908
Student-T value	3.14

(Student-T value for 7 replicates = 3.143)

MDL (mg/L)	**0.8**
RL (mg/L)	5.0
Status	**PASS**

✓ TAW 6/9/06

Curtis & Tompkins, Ltd.

pH

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 9040B
Analyte:	pH	Diln Fac:	1.000
Field ID:	WT052506	Batch#:	113876
Lab ID:	187112-005	Sampled:	05/25/06 16:20
Matrix:	Water	Received:	05/26/06
Units:	SU	Analyzed:	05/26/06 17:30

Result	RL
8.4	1.0

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

pH

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 9040B
Analyte:	pH	Units:	SU
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SDUP	Batch#:	113876
MSS Lab ID:	187076-003	Sampled:	05/25/06 10:00
Lab ID:	QC341778	Received:	05/25/06
Matrix:	Water	Analyzed:	05/26/06 17:30

MSS Result	Result	RL	RPD	Lim
7.580	7.840	1.000	3	20

RL= Reporting Limit
RPD= Relative Percent Difference

LIMS Batch #: 113876 Date: 5/26/06 Benchbook#: **BK 2317**

Matrix: water Time: 17:30 Page: **25**

Method (check one): ☑ Water (EPA 9040b/ 150.1) ☐ Soil (EPA 9045c)

Cal Std-1 ph: 4 SS#: 5749 Slope: 99.8

Cal Std-2 ph: 7 SS#: 5177 (slope limits: 92 - 102)

Cal Std-3 ph: 10 SS#: 5116 9

7.71

Run	Sample # / Letter	pH (S.U.)	2nd Reading* (water only)	*Comments
1	Icv	7.02		ICV/CCV => 53273
	187076 -3	7.58	7.59	
	SDUP -3	7.84	7.82	RPD => 3.37%
	187102-2	7.20	7.18	
5	187112 -5	8.35	8.36	
	CCV	7.05		
10				
15				
20				
25				

* 2nd aliquot must be within 0.1 SU

5/26/06 — Analyst / Date

Tom K Morrison 5/30/06 — Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 113876
Date Started: 26-MAY-2006
Batched by : Stephanie Jim

Analysis : PH
Bgroup : N/A
Department : Wet Chemistry

Sample	Type	Client	Matrix	Analyses	Due Date
187076-003		CH2M Hill Construc	Water	PH	02-JUN-2006
187102-002		IMTT	Water	PH	08-JUN-2006
187112-005		Treadwell & Rollo	Water	PH	08-JUN-2006
QC341778	SDUP of 187076-003		Water	PH	

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	05/25/06
Units:	mg/L	Received:	05/26/06
Diln Fac:	1.000	Analyzed:	06/08/06
Batch#:	114248		

Field ID: 1065MW9B Lab ID: 187112-002
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	250	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	250	1.0

Field ID: LF4GW103 Lab ID: 187112-003
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	1,200	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	1,200	1.0

Field ID: LF4GW104 Lab ID: 187112-004
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	650	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	650	1.0

Field ID: BHWGW01 Lab ID: 187112-006
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	520	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	520	1.0

Field ID: DUP0525063A Lab ID: 187112-007
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	530	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	530	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	05/25/06
Units:	mg/L	Received:	05/26/06
Diln Fac:	1.000	Analyzed:	06/08/06
Batch#:	114248		

Field ID: HWGW100 Lab ID: 187112-008
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	590	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	590	1.0

Field ID: HWGW101 Lab ID: 187112-009
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	520	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	520	1.0

Field ID: BHWGW04 Lab ID: 187112-010
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	310	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	310	1.0

Field ID: BHWGW04RB05 Lab ID: 187112-011
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	ND	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	ND	1.0

Field ID: BHWGW05 Lab ID: 187112-012
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	740	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	740	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Sampled:	05/25/06
Units:	mg/L	Received:	05/26/06
Diln Fac:	1.000	Analyzed:	06/08/06
Batch#:	114248		

Field ID: DW052506A Lab ID: 187112-013
Type: SAMPLE

Analyte	Result	RL
Alkalinity, Bicarbonate	ND	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	8.9	1.0

Type: BLANK Lab ID: QC343275

Analyte	Result	RL
Alkalinity, Bicarbonate	ND	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Units:	mg/L
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC343276	Batch#:	114248
Matrix:	Water	Analyzed:	06/08/06

Spiked	Result	%REC	Limits
200.0	183.3	92	90-110

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	114248
MSS Lab ID:	187119-004	Sampled:	05/25/06
Matrix:	Water	Received:	05/26/06
Units:	mg/L	Analyzed:	06/08/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC343277	72.98	200.0	252.8	90	69-112		
MSD	QC343278		200.0	251.7	89	69-112	0	25

RPD= Relative Percent Difference

Analysis: **Alkalinity** Analysis Date: **06/08/06** H_2SO_4 Normality = **0.0178**

Method: **EPA 310.1** / SMWW 2320B Batch No: **114248** conc.(mg/L) Na_2CO_3 for QC = **200**

SOP#: Alkalinity_rv 6.doc Analyst: SJ

SAMPLE	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinity** as $CaCO_3$ (mg/L)	Low Alkalinity Volume (4.5-4.2) (mL)	**Low Alkalinity** as $CaCO_3$ (mg/L)	Reporting Limit (mg/L)
187112-002	7.20	25	0.0	7.1	252.76		n/a	1.0
187112-003	7.10	25	0.0	34.1	1213.96		n/a	1.0
187112-004	7.40	25	0.0	18.2	647.92		n/a	1.0
187112-006	7.90	25	0.0	14.7	523.32		n/a	1.0
187112-007	7.90	25	0.0	14.9	530.44		n/a	1.0
187112-008	7.90	25	0.0	16.7	594.52		n/a	1.0
187112-009	7.70	25	0.0	14.5	516.20		n/a	1.0
187112-010	7.50	25	0.0	8.7	309.72		n/a	1.0
187112-011	5.80	100	0.0	0.2	rpt low alk	0.40	ND	1.0
187112-012	7.20	25	0.0	20.8	740.48		n/a	1.0
187112-013	6.80	100	0.0	1.2	rpt low alk	1.40	8.900	1.0
187117-001	7.50	25	0.0	24.5	872.20		n/a	1.0
187117-004	6.80	25	0.0	29.3	1043.08		n/a	1.0
187119-003	8.50	25	0.1	2.1	72.98		n/a	1.0
187119-004	7.90	25	0.0	2.1	72.98		n/a	1.0

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QC DATA	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alk Vol (mL)	**Low Alk** as $CaCO_3$ (mg/L)	RL (mg/L)	% Rec.	% RPD
MB	5.4	25	0.0	0.0	ND			1.0		
LCS	10.1	25	1.8	5.2	183.34			1.0	92	
187119-004	7.90	25	0.0	2.1	72.98		n/a	1.0		
MS	9.8	25	1.7	7.1	252.76			1.0	90	
MSD	9.8	25	1.7	7.1	251.69			1.0	89	0

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	25	80 - 120

Reviewed by/ Date: DMB 6/8/06

Analysis: **Alkalinity** Analysis Date: 06/08/06 H_2SO_4 Normality = 0.0178

Method: **EPA 310.1** Batch No: 114248 Analyst: SJ

SAMPLE	(P)	(T-P)	Total Alkalinity as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity	Carbonate Alkalinity	Hydroxide Alkalinity
				as $CaCO_3$ (mg/L)		
187112-002	0.0	252.8	252.76	252.760	0.000	0.000
187112-003	0.0	1214.0	1213.96	1213.960	0.000	0.000
187112-004	0.0	647.9	647.92	647.920	0.000	0.000
187112-006	0.0	523.3	523.32	523.320	0.000	0.000
187112-007	0.0	530.4	530.44	530.440	0.000	0.000
187112-008	0.0	594.5	594.52	594.520	0.000	0.000
187112-009	0.0	516.2	516.2	516.200	0.000	0.000
187112-010	0.0	309.7	309.72	309.720	0.000	0.000
187112-011	0.0	#VALUE!	ND	not applicable	not applicable	not applicable
187112-012	0.0	740.5	740.48	740.480	0.000	0.000
187112-013	0.0	#VALUE!	8.9	not applicable	not applicable	not applicable
187117-001	0.0	872.2	872.2	872.200	0:000	0.000
187117-004	0.0	1043.1	1043.08	1043.080	0.000	0.000
187119-003	1.8	71.2	72.98	69.420	3.560	0.000
187119-004	0.0	73.0	72.98	72.980	0.000	0.000

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P: Phenolphthalein Alkalinity (using volume to pH 8.3)
T-P: Total Alkalinity minus Phenolphthalein Alkalinity

Carbonate Alkalinity = 2x the smaller of P or (T-P)
Bicarbonate Alkalinity = (T-2P) when P < (T-P)
Hydroxide Alkalinity = (2P-T) when (T-P) < P

Analysis: **Alkalinity** Analysis Date: 06/08/06 H_2SO_4 Normality = 0.0178

Method: **EPA 310.1** Batch No: 114248 Analyst: SJ

SAMPLE	**Total Alkalinity** as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity **as HCO_3^- (mg/L)**	Carbonate Alkalinity **as CO_3^{2-} (mg/L)**	Hydroxide Alkalinity **as OH^- (mg/L)**
187112-002	252.76	308.18	0.000	0.00
187112-003	1213.96	1480.12	0.000	0.00
187112-004	647.92	789.97	0.000	0.00
187112-006	523.32	638.06	0.000	0.00
187112-007	530.44	646.74	0.000	0.00
187112-008	594.52	724.87	0.000	0.00
187112-009	516.2	629.38	0.000	0.00
187112-010	309.72	377.63	0.000	0.00
187112-011	ND	not applicable	not applicable	not applicable
187112-012	740.48	902.83	0.000	0.00
187112-013	8.9	not applicable	not applicable	not applicable
187117-001	872.2	1063.43	0.000	0.00
187117-004	1043.08	1271.77	0.000	0.00
187119-003	72.98	84.64	2.135	0.00
187119-004	72.98	88.98	0.000	0.00

457

Alkalinity Benchbook | EPA 310.1 / SMWW 2320B | Curtis & Tompkins, Ltd.

LIMS Batch #: 114248
Matrix: Water

Date: 6/8/06
Time: 13:00

Benchbook#: **BK 2255**
Page: **64**

CAL-ph 4.0: SS#: 5790
CAL-ph 7.0: SS#:
CAL-ph 10.0: SS#: 51169
Slope: 97.4
(slope limits: 92 - 102)

$CaCO_3$ Vol (mgL) Spiked: 5
$CaCO_3$ Conc (mg/L): 1000
$CaCO_3$ WS#: 53134
H_2SO_4 Normality: 0.0178
H_2SO_4 Reagent ID: 4128/06

22.1

	Sample # / Letter	Sample Vol. Titrated (mL)	Initial pH (S.U.)	H_2SO_4 Vol (mL) to pH 8.3	H_2SO_4 Vol (mL) to pH 4.5 *	Low Alk TotalVol (mL)	Comments
1	MB	25	5.4	—	<0.05		
	6/8 ~~Bio~~ LCS		10.1	1.8	5.15		
	187112-2F		7.2	—	7.1		
	-3B		7.1	—	3A.1		
5	-4		7.4	—	18.2		
	-6		7.9	—	14.7		
	-7		7.9	—	19.9		
	-8		7.9	—	16.7		
	-9		7.7	—	14.5		
10	-10		7.5	—	8.7		
	-11		5.4	—	<2mL		
	-11	100	5.8	—	0.2	0.4	
	-12	25	7.2	—	20.8		
	-13 N		6.4	—	<2mL		
15	-13	100	6.8	—	1.2	1.4	
	187117-1G	25	7.5	—	24.5		
	6/8 -4 ~~-4~~		6.8	—	29.3		
	187119-3A		8.5	0.05	2.05		
	-4		7.9	—	2.05		
20	MS 187119-4A		9.8	1.7	7.1		
	MSD -4		9.8	1.7	7.07		

* If Acid Vol to 4.5 is < 2.0mL, redo using 100mL sample volume. If still < 2.0mL, go on to Low Alkalinity

6/8/06

6/8/06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 114248
Date Started: 08-JUN-2006
Batched by : Stephanie Jim

Analysis : ALKALINITY
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
187112-002			Treadwell & Rollo	Water	ALKALINITY	08-JUN-2006
187112-003			Treadwell & Rollo	Water	ALKALINITY	08-JUN-2006
187112-004			Treadwell & Rollo	Water	ALKALINITY	08-JUN-2006
187112-006			Treadwell & Rollo	Water	ALKALINITY	08-JUN-2006
187112-007			Treadwell & Rollo	Water	ALKALINITY	08-JUN-2006
187112-008			Treadwell & Rollo	Water	ALKALINITY	08-JUN-2006
187112-009			Treadwell & Rollo	Water	ALKALINITY	08-JUN-2006
187112-010			Treadwell & Rollo	Water	ALKALINITY	08-JUN-2006
187112-011			Treadwell & Rollo	Water	ALKALINITY	08-JUN-2006
187112-012			Treadwell & Rollo	Water	ALKALINITY	08-JUN-2006
187112-013			Treadwell & Rollo	Water	ALKALINITY	08-JUN-2006
187117-001			Tetra Tech EC, INC	Water	ALKALINITY	08-JUN-2006
187117-004			Tetra Tech EC, INC	Water	ALKALINITY	08-JUN-2006
187119-003			U.S. Army Corps of	Water	ALKALINITY	08-JUN-2006
187119-004			U.S. Army Corps of	Water	ALKALINITY	08-JUN-2006
QC343275	BLANK			Water	ALKALINITY	
QC343276	LCS			Water	ALKALINITY	
QC343277	MS	of 187119-004		Water	ALKALINITY	
QC343278	MSD	of 187119-004		Water	ALKALINITY	

Curtis & Tompkins, Ltd.

Chloride

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Batch#:	113873
Matrix:	Water	Received:	05/26/06
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Diln Fac	Sampled	Analyzed
1065MW9B	SAMPLE	187112-002	55	2.0	10.00	05/25/06 11:20	05/26/06 19:36
LF4GW103	SAMPLE	187112-003	480	20	100.0	05/25/06 09:30	05/26/06 17:03
LF4GW104	SAMPLE	187112-004	350	10	50.00	05/25/06 10:15	05/26/06 17:22
BHWGW01	SAMPLE	187112-006	200	5.0	25.00	05/25/06 09:20	05/27/06 01:12
DUP0525063A	SAMPLE	187112-007	200	5.0	25.00	05/25/06 09:25	05/27/06 01:31
HWGW100	SAMPLE	187112-008	23	5.0	25.00	05/25/06 10:45	05/27/06 01:49
HWGW101	SAMPLE	187112-009	54	5.0	25.00	05/25/06 11:25	05/27/06 02:08
BHWGW04	SAMPLE	187112-010	89	2.0	10.00	05/25/06 12:10	05/27/06 00:54
BHWGW04RB05	SAMPLE	187112-011	ND	0.20	1.000	05/25/06 12:15	05/26/06 20:55
BHWGW05	SAMPLE	187112-012	100	5.0	25.00	05/25/06 12:50	05/27/06 02:26
DW052506A	SAMPLE	187112-013	0.26	0.20	1.000	05/25/06 16:10	05/26/06 21:13
	BLANK	QC341764	ND	0.20	1.000		05/26/06 11:28

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Fluoride

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Diln Fac:	1.000
Matrix:	Water	Batch#:	113873
Units:	mg/L	Received:	05/26/06

Field ID	Type	Lab ID	Result	RL	Sampled	Analyzed
1065MW9B	SAMPLE	187112-002	ND	0.10	05/25/06 11:20	05/26/06 17:45
LF4GW103	SAMPLE	187112-003	0.10	0.10	05/25/06 09:30	05/26/06 22:27
LF4GW104	SAMPLE	187112-004	ND	0.10	05/25/06 10:15	05/26/06 23:04
BHWGW01	SAMPLE	187112-006	ND	0.10	05/25/06 09:20	05/26/06 21:50
DUP0525063A	SAMPLE	187112-007	ND	0.10	05/25/06 09:25	05/26/06 22:08
HWGW100	SAMPLE	187112-008	ND	0.10	05/25/06 10:45	05/26/06 18:41
HWGW101	SAMPLE	187112-009	0.12	0.10	05/25/06 11:25	05/26/06 18:22
BHWGW04	SAMPLE	187112-010	ND	0.10	05/25/06 12:10	05/26/06 18:04
BHWGW04RB05	SAMPLE	187112-011	ND	0.10	05/25/06 12:15	05/26/06 20:55
BHWGW05	SAMPLE	187112-012	0.12	0.10	05/25/06 12:50	05/26/06 21:32
DW052506A	SAMPLE	187112-013	ND	0.10	05/25/06 16:10	05/26/06 21:13
	BLANK	QC341764	ND	0.10		05/26/06 11:28

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrate Nitrogen

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Batch#:	113873
Matrix:	Water	Received:	05/26/06
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Diln Fac	Sampled	Analyzed
1065MW9B	SAMPLE	187112-002	5.4	0.50	10.00	05/25/06 11:20	05/26/06 19:36
LF4GW103	SAMPLE	187112-003	0.07	0.05	1.000	05/25/06 09:30	05/26/06 22:27
LF4GW104	SAMPLE	187112-004	0.62	0.05	1.000	05/25/06 10:15	05/26/06 23:04
BHWGW01	SAMPLE	187112-006	5.6	1.3	25.00	05/25/06 09:20	05/27/06 01:12
DUP0525063A	SAMPLE	187112-007	5.3	1.3	25.00	05/25/06 09:25	05/27/06 01:31
HWGW100	SAMPLE	187112-008	1.3	0.05	1.000	05/25/06 10:45	05/26/06 18:41
HWGW101	SAMPLE	187112-009	1.5	0.05	1.000	05/25/06 11:25	05/26/06 18:22
BHWGW04	SAMPLE	187112-010	4.6	0.05	1.000	05/25/06 12:10	05/26/06 18:04
BHWGW04RB05	SAMPLE	187112-011	ND	0.05	1.000	05/25/06 12:15	05/26/06 20:55
BHWGW05	SAMPLE	187112-012	ND	0.05	1.000	05/25/06 12:50	05/26/06 21:32
DW052506A	SAMPLE	187112-013	ND	0.05	1.000	05/25/06 16:10	05/26/06 21:13
	BLANK	QC341764	ND	0.05	1.000		05/26/06 11:28

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrite Nitrogen

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Diln Fac:	1.000
Matrix:	Water	Batch#:	113873
Units:	mg/L	Received:	05/26/06

Field ID	Type	Lab ID	Result	RL	Sampled	Analyzed
1065MW9B	SAMPLE	187112-002	ND	0.05	05/25/06 11:20	05/26/06 17:45
LF4GW103	SAMPLE	187112-003	ND	0.05	05/25/06 09:30	05/26/06 22:27
LF4GW104	SAMPLE	187112-004	ND	0.05	05/25/06 10:15	05/26/06 23:04
BHWGW01	SAMPLE	187112-006	ND	0.05	05/25/06 09:20	05/26/06 21:50
DUP0525063A	SAMPLE	187112-007	ND	0.05	05/25/06 09:25	05/26/06 22:08
HWGW100	SAMPLE	187112-008	ND	0.05	05/25/06 10:45	05/26/06 18:41
HWGW101	SAMPLE	187112-009	ND	0.05	05/25/06 11:25	05/26/06 18:22
BHWGW04	SAMPLE	187112-010	ND	0.05	05/25/06 12:10	05/26/06 18:04
BHWGW04RB05	SAMPLE	187112-011	ND	0.05	05/25/06 12:15	05/26/06 20:55
BHWGW05	SAMPLE	187112-012	ND	0.05	05/25/06 12:50	05/26/06 21:32
DW052506A	SAMPLE	187112-013	ND	0.05	05/25/06 16:10	05/26/06 21:13
	BLANK	QC341764	ND	0.05		05/26/06 11:28

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Sulfate

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Batch#:	113873
Matrix:	Water	Received:	05/26/06
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Diln Fac	Sampled	Analyzed
1065MW9B	SAMPLE	187112-002	75	5.0	10.00	05/25/06 11:20	05/26/06 19:36
LF4GW103	SAMPLE	187112-003	390	50	100.0	05/25/06 09:30	05/26/06 17:03
LF4GW104	SAMPLE	187112-004	170	25	50.00	05/25/06 10:15	05/26/06 17:22
BHWGW01	SAMPLE	187112-006	67	13	25.00	05/25/06 09:20	05/27/06 01:12
DUP0525063A	SAMPLE	187112-007	66	13	25.00	05/25/06 09:25	05/27/06 01:31
HWGW100	SAMPLE	187112-008	65	13	25.00	05/25/06 10:45	05/27/06 01:49
HWGW101	SAMPLE	187112-009	100	13	25.00	05/25/06 11:25	05/27/06 02:08
BHWGW04	SAMPLE	187112-010	62	5.0	10.00	05/25/06 12:10	05/27/06 00:54
BHWGW04RB05	SAMPLE	187112-011	ND	0.50	1.000	05/25/06 12:15	05/26/06 20:55
BHWGW05	SAMPLE	187112-012	84	13	25.00	05/25/06 12:50	05/27/06 02:26
DW052506A	SAMPLE	187112-013	4.9	0.50	1.000	05/25/06 16:10	05/26/06 21:13
	BLANK	QC341764	ND	0.50	1.000		05/26/06 11:28

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chloride

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Units:	mg/L
Field ID:	1065MW9B	Batch#:	113873
MSS Lab ID:	187112-002	Sampled:	05/25/06 11:20
Matrix:	Water	Received:	05/26/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed
BS	QC341765		4.000	3.848	96	80-120			1.000	05/26/06 11:47
BSD	QC341766		4.000	3.873	97	80-120	1	20	1.000	05/26/06 12:05
MS	QC341767	55.24	20.00	74.58	97	80-120			10.00	05/26/06 20:00
MSD	QC341768		20.00	74.35	96	80-120	0	25	10.00	05/26/06 20:18

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Fluoride

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Units:	mg/L
Field ID:	1065MW9B	Batch#:	113873
MSS Lab ID:	187112-002	Sampled:	05/25/06 11:20
Matrix:	Water	Received:	05/26/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed
BS	QC341765		2.000	1.945	97	80-120			1.000	05/26/06 11:47
BSD	QC341766		2.000	1.982	99	80-120	2	20	1.000	05/26/06 12:05
MS	QC341767	<0.02324	10.00	9.924	99	77-120			10.00	05/26/06 20:00
MSD	QC341768		10.00	9.901	99	77-120	0	20	10.00	05/26/06 20:18

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrate Nitrogen

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Units:	mg/L
Field ID:	1065MW9B	Batch#:	113873
MSS Lab ID:	187112-002	Sampled:	05/25/06 11:20
Matrix:	Water	Received:	05/26/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed
BS	QC341765		1.000	0.9447	94	80-120			1.000	05/26/06 11:47
BSD	QC341766		1.000	0.9385	94	80-120	1	20	1.000	05/26/06 12:05
MS	QC341767	5.447	5.000	10.25	96	80-120			10.00	05/26/06 20:00
MSD	QC341768		5.000	10.24	96	80-120	0	25	10.00	05/26/06 20:18

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrite Nitrogen

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Units:	mg/L
Field ID:	1065MW9B	Batch#:	113873
MSS Lab ID:	187112-002	Sampled:	05/25/06 11:20
Matrix:	Water	Received:	05/26/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed
BS	QC341765		1.000	1.013	101	80-120			1.000	05/26/06 11:47
BSD	QC341766		1.000	1.024	102	80-120	1	20	1.000	05/26/06 12:05
MS	QC341767	<0.01206	5.000	5.291	106	80-120			10.00	05/26/06 20:00
MSD	QC341768		5.000	5.314	106	80-120	0	25	10.00	05/26/06 20:18

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Sulfate

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Units:	mg/L
Field ID:	1065MW9B	Batch#:	113873
MSS Lab ID:	187112-002	Sampled:	05/25/06 11:20
Matrix:	Water	Received:	05/26/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed
BS	QC341765		10.00	9.993	100	80-120			1.000	05/26/06 11:47
BSD	QC341766		10.00	10.06	101	80-120	1	20	1.000	05/26/06 12:05
MS	QC341767	75.13	50.00	127.8	105	80-120			10.00	05/26/06 20:00
MSD	QC341768		50.00	125.7	101	80-120	2	25	10.00	05/26/06 20:18

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187112 IC Water: EPA 300.0

Inst : IC03
Calnum : 626087283001
Units : mg/L

Date : 01-MAR-2006 15:02
X Axis : A

Reviewer: MCH
Inj Vol : 25 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	060_2.000	626087283002	L1	01-MAR-2006 15:02	S1888 (500X)
L2	060_3.000	626087283003	L2	01-MAR-2006 15:20	S1888 (100X)
L3	060_4.000	626087283004	L3	01-MAR-2006 15:39	S1888 (25X)
L4	060_5.000	626087283005	L4	01-MAR-2006 15:57	S1888 (10X)
L5	060_6.000	626087283006	L5	01-MAR-2006 16:15	S1888 (5X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Fluoride	0.1716	0.1970	0.2011	0.2058	0.2193	QORG		0.19367	0.002557	0.1990	1.000	0.990	
Chloride	0.2004	0.1474	0.1573	0.1617	0.1760	QORG		0.14901	0.001346	0.1686	1.000	0.990	
Nitrogen, Nitrite	0.2691	0.2776	0.3037	0.3039	0.3170	QORG		0.29330	0.004711	0.2943	1.000	0.990	
Nitrogen, Nitrate	0.3560	0.3834	0.3978	0.3870	0.4128	QORG		0.37136	0.008191	0.3874	1.000	0.990	
Sulfate	0.1066	0.1006	0.1099	0.1118	0.1203	QORG		0.10436	3.187E-4	0.1099	1.000	0.990	

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Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating); QORG=Quadratic regression forced through origin

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 187112 IC Water
EPA 300.0

Inst : IC03
Calnum : 626087283001 Cal Date: 01-MAR-2006

ICV 626087283007 (060_7.000 01-MAR-2006) stds: S1085 (5X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Fluoride	0.1990	0.1858	1.000	0.9473	mg/L	-5	10	
Chloride	0.1686	0.1455	2.000	1.920	mg/L	-4	10	
Nitrogen, Nitrite	0.2943	0.2873	0.5000	0.4860	mg/L	-3	10	
Nitrogen, Nitrate	0.3874	0.3456	0.5000	0.4606	mg/L	-8	10	
Sulfate	0.1099	0.1070	5.000	5.047	mg/L	1	10	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 300.0

Inst : IC03
Calnum : 626087283001 Date : 01-MAR-2006 15:02 Inj Vol: 25 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	060_2.000	626087283002	L1	01-MAR-2006 15:02	S1888 (500X)
L2	060_3.000	626087283003	L2	01-MAR-2006 15:20	S1888 (100X)
L3	060_4.000	626087283004	L3	01-MAR-2006 15:39	S1888 (25X)
L4	060_5.000	626087283005	L4	01-MAR-2006 15:57	S1888 (10X)
L5	060_6.000	626087283006	L5	01-MAR-2006 16:15	S1888 (5X)

MRS 3/2/06

Analyte	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	Units	Avg	r^2 %RSD	MnR^2	Flq
Fluoride	0.1716	0.1970	0.2011	0.2058	0.2193	QORG	A		0.19367	0.002557	mg/L	0.1990	1.000	0.990	
Chloride	0.2004	0.1474	0.1573	0.1617	0.1760	QORG	A		0.14901	0.001346	mg/L	0.1686	1.000	0.990	
Nitrogen, Nitrite	0.2691	0.2776	0.3037	0.3039	0.3170	QORG	A		0.29330	0.004711	mg/L	0.2943	1.000	0.990	
Bromide	0.0471	0.0627	0.0663	0.0635	0.0673	QORG	A		0.06168	2.750E-4	mg/L	0.0614	1.000	0.990	
Nitrogen, Nitrate	0.3560	0.3834	0.3978	0.3870	0.4128	QORG	A		0.37136	0.008191	mg/L	0.3874	1.000	0.990	
Orthophosphate (as P)	0.0986	0.1086	0.1241	0.1248	0.1349	QORG	A		0.11651	9.164E-4	mg/L	0.1182	1.000	0.990	NA
Sulfate	0.1066	0.1006	0.1099	0.1118	0.1203	QORG	A		0.10436	3.187E-4	mg/L	0.1099	1.000	0.990	

MRS 3/2/06

472

QORG=Quadratic regression forced through origin

Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

626087283001

Sequence: 060
Operator: ic_analyst
Printed: 3/2/2006 11:25:27 AM

Title: Anions
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006
Timebase: IC3_DX120
#Samples: 8

Created: 8/1/2003 11:03:14 AM by ic_analyst
Last Update: 3/1/2006 4:23:55 PM by ic_analyst

No.	*Batch	Name	Comment	Dil. Factor	Program	Status	Inj. Date/Time
1	CAL-060	IB		1.0000	IC03-7AN	Finished	3/1/2006 2:43:54 PM
2	CAL-060	ICAL, L1,S1888,500		1.0000	IC03-7AN	Finished	3/1/2006 3:02:19 PM
3	CAL-060	ICAL, L2,S1888,100		1.0000	IC03-7AN	Finished	3/1/2006 3:20:44 PM
4	CAL-060	ICAL, L3,S1888,25		1.0000	IC03-7AN	Finished	3/1/2006 3:39:08 PM
5	CAL-060	ICAL, L4,S1888,10		1.0000	IC03-7AN	Finished	3/1/2006 3:57:33 PM
6	CAL-060	ICAL, L5,S1888,5		1.0000	IC03-7AN	Finished	3/1/2006 4:15:58 PM
7	CAL-060	ICV,S1085,5		1.0000	IC03-7AN	Finished	3/1/2006 4:34:23 PM
8	CAL-060	ICB		1.0000	IC03-7AN	Finished	3/1/2006 4:52:47 PM

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Sequence: 060
Operator: ic_analyst
Printed: 3/2/2006 11:25:27 AM

Title: Anions
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006
Timebase: IC3_DX120
#Samples: 8

Created: 8/1/2003 11:03:14 AM by ic_analyst
Last Update: 3/1/2006 4:23:55 PM by ic_analyst

No.	*Batch	Name	Comment	Method	Type	Inj. Vol.	*operator	*PDF
1	CAL-060	IB		IC03-7AN_CAL	Unknown	25.0	MRS	1
2	CAL-060	ICAL, L1,S1888,500		IC03-7AN_CAL	Standard	25.0	MRS	1
3	CAL-060	ICAL, L2,S1888,100		IC03-7AN_CAL	Standard	25.0	MRS	1
4	CAL-060	ICAL, L3,S1888,25		IC03-7AN_CAL	Standard	25.0	MRS	1
5	CAL-060	ICAL, L4,S1888,10		IC03-7AN_CAL	Standard	25.0	MRS	1
6	CAL-060	ICAL, L5,S1888,5		IC03-7AN_CAL	Standard	25.0	MRS	1
7	CAL-060	ICV,S1085,5		IC03-7AN_CAL	Unknown	25.0	MRS	1
8	CAL-060	ICB		IC03-7AN_CAL	Unknown	25.0	MRS	1

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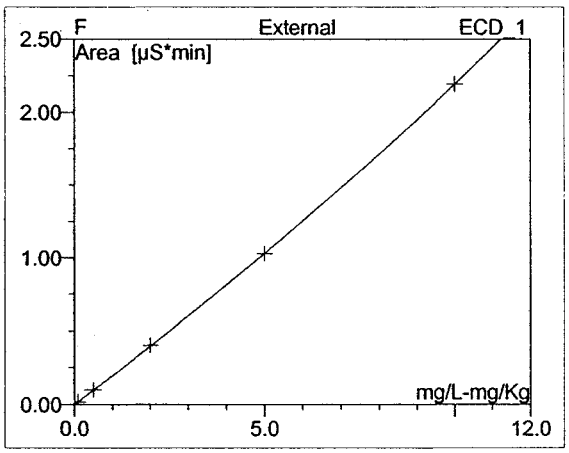
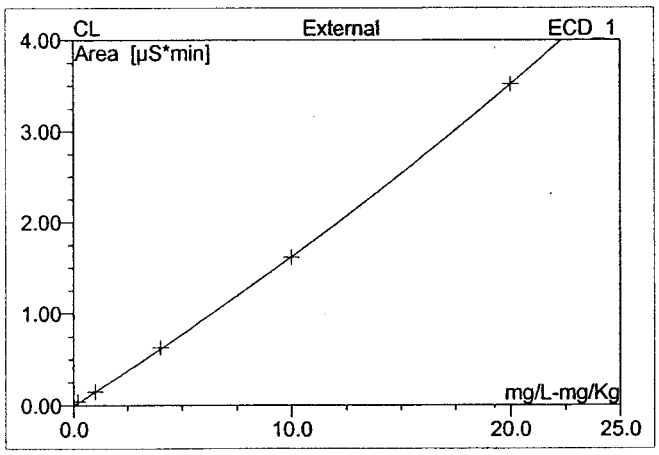
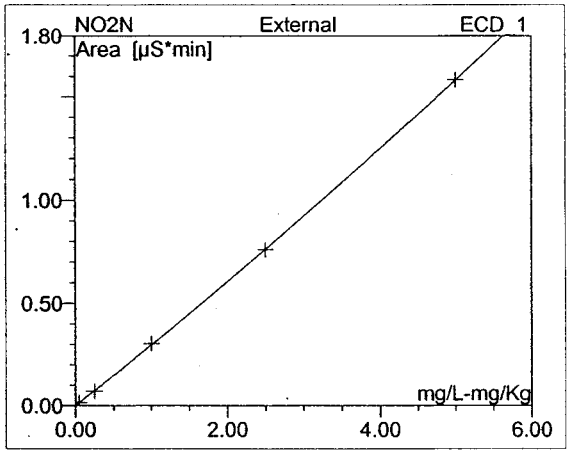
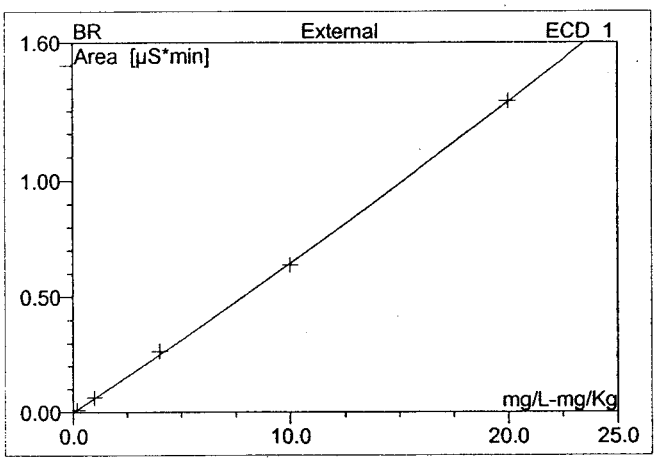
IC03 Calibration Batch Report

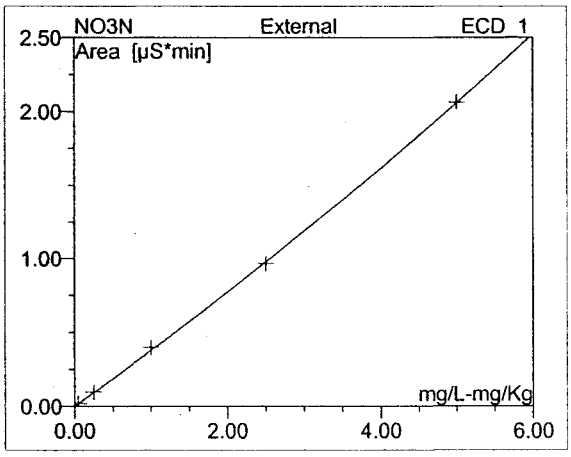
Sequence:	060	Inj. Vol.:	25.0
Program:	IC03-7AN	Operator:	PC_NEWIC
Inj. Date/Time:	03/01/06 15:39	Run Time:	16.00

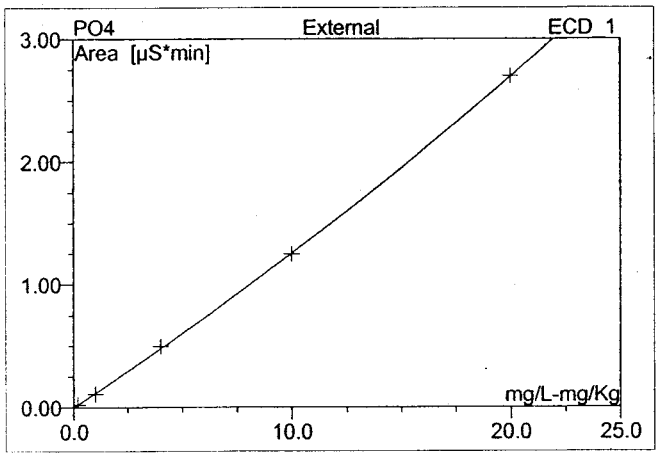




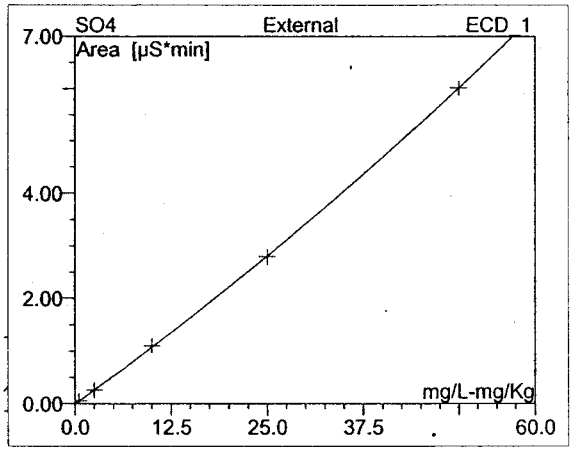








Sequence:	060	*Inj. Vol.:*	25.0
Program:	IC03-7AN	*Operator:*	n.a.
Inj. Date/Time:	03/01/06 15:39	*Run Time:*	16.00



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	2.870	F	Quad	5	0.000000	0.193669	0.002557	99.951556
2	4.217	CL	Quad	5	0.000000	0.149009	0.001346	99.909274
3	5.010	NO2N	Quad	5	0.000000	0.293301	0.004711	99.980499
4	6.363	BR	Quad	5	0.000000	0.061677	0.000275	99.961186
5	7.183	NO3N	Quad	5	0.000000	0.371363	0.008191	99.950755
6	9.350	PO4	Quad	5	0.000000	0.116513	0.000916	99.934448
7	11.167	SO4	Quad	5	0.000000	0.104363	0.000319	99.936780
AVERAGE:					0.000000	0.184271	0.002616	99.946357

No.	Name	Area µS*min F ECD_1	Area µS*min CL ECD_1	Area µS*min NO2N ECD_1	Area µS*min BR ECD_1	Area µS*min NO3N ECD_1	Area µS*min PO4 ECD_1	Area µS*min SO4 ECD_1
2	ICAL, L1,S18	0.017161	0.040074	0.013455	0.009416	0.017801	0.019729	0.053320
3	ICAL, L2,S18	0.098503	0.147367	0.069403	0.062700	0.095842	0.108648	0.251558
4	ICAL, L3,S18	0.402286	0.629116	0.303748	0.265105	0.397785	0.496547	1.098657
5	ICAL, L4,S18	1.029135	1.617474	0.759872	0.635291	0.967493	1.248459	2.795566
6	ICAL, L5,S18	2.192959	3.519967	1.584757	1.345233	2.063887	2.698316	6.017213

No.	Name	Height µS F ECD_1	Height µS CL ECD_1	Height µS NO2N ECD_1	Height µS BR ECD_1	Height µS NO3N ECD_1	Height µS PO4 ECD_1	Height µS SO4 ECD_1
2	ICAL, L1,S18	0.119928	0.332400	0.084748	0.057026	0.074652	0.061912	0.150120
3	ICAL, L2,S18	0.624736	1.151678	0.427428	0.312212	0.389908	0.332100	0.786078
4	ICAL, L3,S18	2.934282	5.019222	1.815278	1.334402	1.670152	1.537158	3.389914
5	ICAL, L4,S18	7.925782	12.944296	4.498282	3.261344	4.151488	4.029644	8.663126
6	ICAL, L5,S18	18.187422	28.959684	9.537670	7.026382	9.031478	9.108810	19.245860

No.	Name	Amount mg/L-mg/Kg F ECD_1	Amount mg/L-mg/Kg CL ECD_1	Amount mg/L-mg/Kg NO2N ECD_1	Amount mg/L-mg/Kg BR ECD_1	Amount mg/L-mg/Kg NO3N ECD_1	Amount mg/L-mg/Kg PO4 ECD_1	Amount mg/L-mg/Kg SO4 ECD_1
2	ICAL, L1,S18	0.088509	0.268287	0.045841	0.152565	0.047883	0.169101	0.510110
3	ICAL, L2,S18	0.505245	0.980298	0.235735	1.012006	0.256628	0.925752	2.392929
4	ICAL, L3,S18	2.023146	4.072203	1.018944	4.218898	1.046971	4.127700	10.208976
5	ICAL, L4,S18	4.985728	9.958921	2.491093	9.866203	2.470614	9.938275	24.894346
6	ICAL, L5,S18	10.002414	20.006659	5.001430	20.023174	5.005056	20.009590	50.016725

Title: IC03-7AN_CAL

Datasource:	DGLD4X01_local	Created:	10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Location:	IC3_DX120\IC03-ANIONS-2006\125.SEQ	Last Update:	5/5/2006 6:10:33 PM by ic_analyst

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Inhibit Integration	On	ECD_1
2	2.250	Sensitivity	0.001 "[Signal]"	ECD_1
3	2.250	Minimum Area	0.001 "[Signal]*min"	ECD_1
4	2.250	Peak Slice	0.50 s	ECD_1
5	2.500	Inhibit Integration	Off	ECD_1

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Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\125.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 5/5/2006 6:10:33 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Amount ICAL, L1,S1888,500	Amount ICAL, L2,S1888,100
1	F	2.844 min	5.000 RG	External	Area	Quad	Auto		0.100000	0.500000
2	CL	4.144 min	5.000 RG	External	Area	Quad	Auto		0.200000	1.000000
3	NO2N	4.924 min	5.000 RG	External	Area	Quad	Auto		0.050000	0.250000
4	BR	6.271 min	5.000 RG	External	Area	Quad	Auto		0.200000	1.000000
5	NO3N	7.088 min	10.000 RG	External	Area	Quad	Auto		0.050000	0.250000
6	*PO4*	*8.891 min*	*10.000 RG*	*External*	*Area*	*Quad*	*Auto*		*0.200000*	*1.000000*
7	SO4	10.551 min	10.000 RG	External	Area	Quad	Auto		0.500000	2.500000

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Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\125.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 5/5/2006 6:10:33 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Amount ICAL, L3,S1888,25	Amount ICAL, L4,S1888,10	Amount ICAL, L5,S1888,5	Comment
1	F	2.844 min	2.000000	5.000000	10.000000	
2	CL	4.144 min	4.000000	10.000000	20.000000	
3	NO2N	4.924 min	1.000000	2.500000	5.000000	
4	BR	6.271 min	4.000000	10.000000	20.000000	
5	NO3N	7.088 min	1.000000	2.500000	5.000000	
6	*PO4*	*8.891 min*	*4.000000*	*10.000000*	*20.000000*	
7	SO4	10.551 min	10.000000	25.000000	50.000000	

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Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\125.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 5/5/2006 6:10:33 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Resp.Fact.	Amount ICAL, L1,S1888,500	Amount ICAL, L2,S1888,100	Amount ICAL, L3,S1888,25	Amount ICAL, L4,S1888,10
1	F	2.844 min	1.000000	0.100000	0.500000	2.000000	5.000000
2	CL	4.144 min	1.000000	0.200000	1.000000	4.000000	10.000000
3	NO2N	4.924 min	1.000000	0.050000	0.250000	1.000000	2.500000
4	BR	6.271 min	1.000000	0.200000	1.000000	4.000000	10.000000
5	NO3N	7.088 min	1.000000	0.050000	0.250000	1.000000	2.500000
6	*PO4*	*8.891 min*	*1.000000*	*0.200000*	*1.000000*	*4.000000*	*10.000000*
7	SO4	10.551 min	1.000000	0.500000	2.500000	10.000000	25.000000

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Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\125.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 5/5/2006 6:10:33 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Amount	Comment
			ICAL, L5,S1888,5	
1	F	2.844 min	10.000000	
2	CL	4.144 min	20.000000	
3	NO2N	4.924 min	5.000000	
4	BR	6.271 min	20.000000	
5	NO3N	7.088 min	5.000000	
6	*PO4*	*8.891 min*	*20.000000*	
7	SO4	10.551 min	50.000000	

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Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\125.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 5/5/2006 6:10:33 PM by ic_analyst

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time	Calib. Comment
1	☒	ICAL, L1,S1888,500	2	179	25.0	1.0000	1.0000	1.0000	3/1/2006 3:02:19 PM	Ok
2	☒	ICAL, L2,S1888,100	3	179	25.0	1.0000	1.0000	1.0000	3/1/2006 3:20:44 PM	Ok
3	☒	ICAL, L3,S1888,25	4	180	25.0	1.0000	1.0000	1.0000	3/1/2006 3:39:08 PM	Ok
4	☒	ICAL, L4,S1888,10	5	181	25.0	1.0000	1.0000	1.0000	3/1/2006 3:57:33 PM	Ok
5	☒	ICAL, L5,S1888,5	6	182	25.0	1.0000	1.0000	1.0000	3/1/2006 4:15:58 PM	Ok

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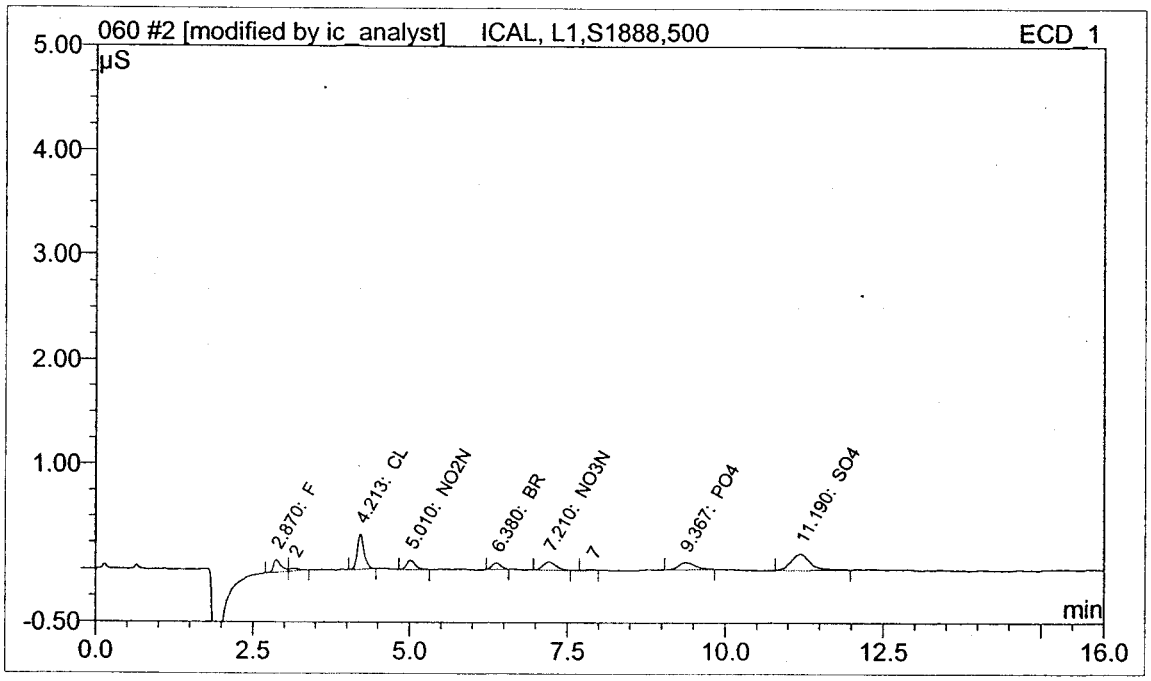
ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L1,S1888,500	**Sample No.:**	2
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:02 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.017161	0.0885	0.0885	
3	CL	4.213	0.040074	0.2683	0.2683	
4	NO2N	5.010	0.013455	0.0458	0.0458	
5	BR	6.380	0.009416	0.1526	0.1526	
6	NO3N	7.210	0.017801	0.0479	0.0479	
8	PO4	9.367	0.019729	0.1691	0.1691	
9	SO4	11.190	0.053320	0.5101	0.5101	



ANALYZED BY: _____

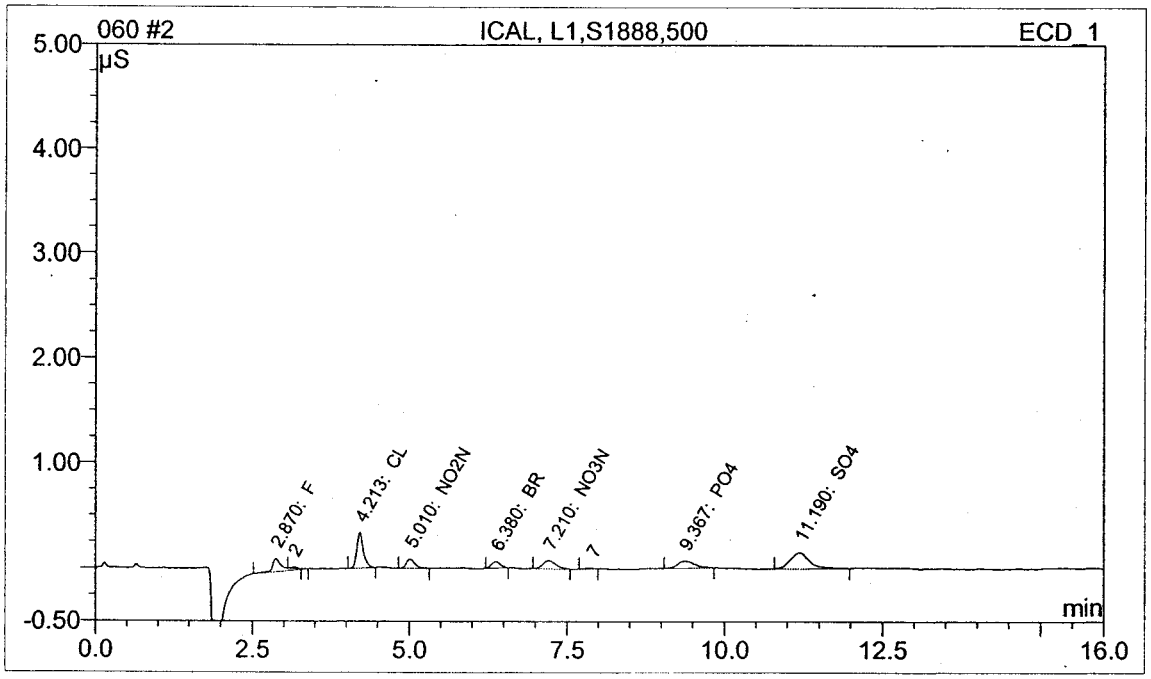
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L1,S1888,500	**Sample No.:**	2
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:02 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.023606	0.1216	0.1216	
3	CL	4.213	0.040074	0.2683	0.2683	
4	NO2N	5.010	0.013455	0.0458	0.0458	
5	BR	6.380	0.009416	0.1526	0.1526	
6	NO3N	7.210	0.017801	0.0479	0.0479	
8	PO4	9.367	0.019729	0.1691	0.1691	
9	SO4	11.190	0.053320	0.5101	0.5101	



ANALYZED BY: _____

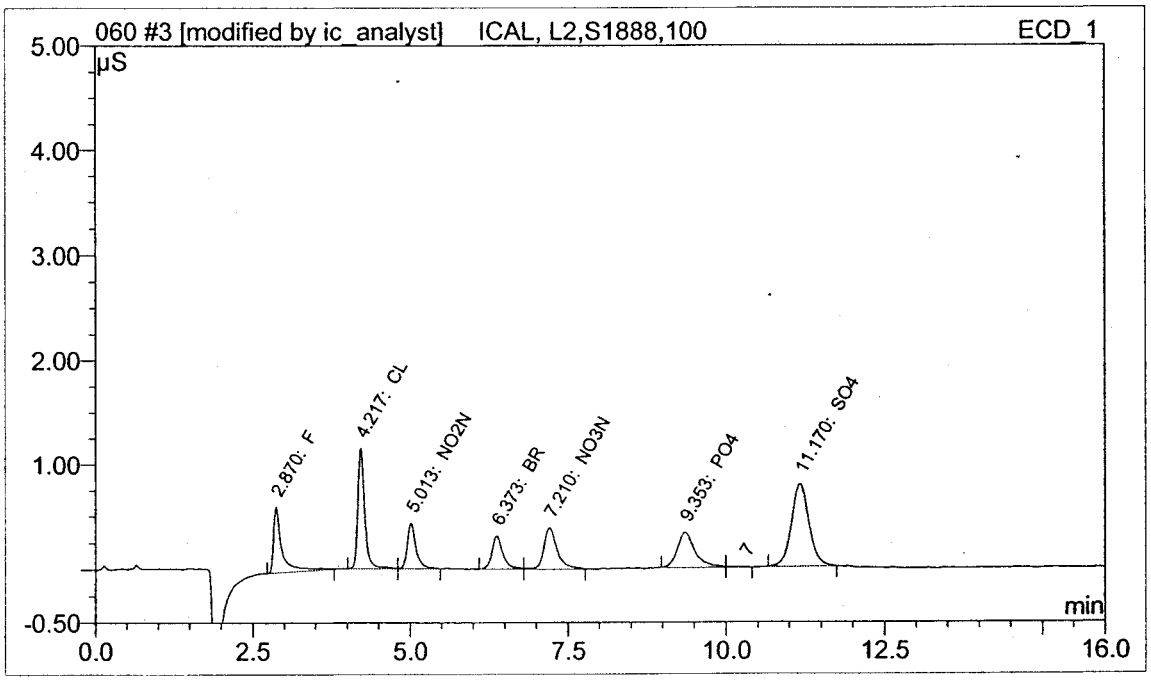
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L2,S1888,100	**Sample No.:**	3
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:20 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.098503	0.5052	0.5052	
2	CL	4.217	0.147367	0.9803	0.9803	
3	NO2N	5.013	0.069403	0.2357	0.2357	
4	BR	6.373	0.062700	1.0120	1.0120	
5	NO3N	7.210	0.095842	0.2566	0.2566	
6	PO4	9.353	0.108648	0.9258	0.9258	
8	SO4	11.170	0.251558	2.3929	2.3929	



ANALYZED BY: _____

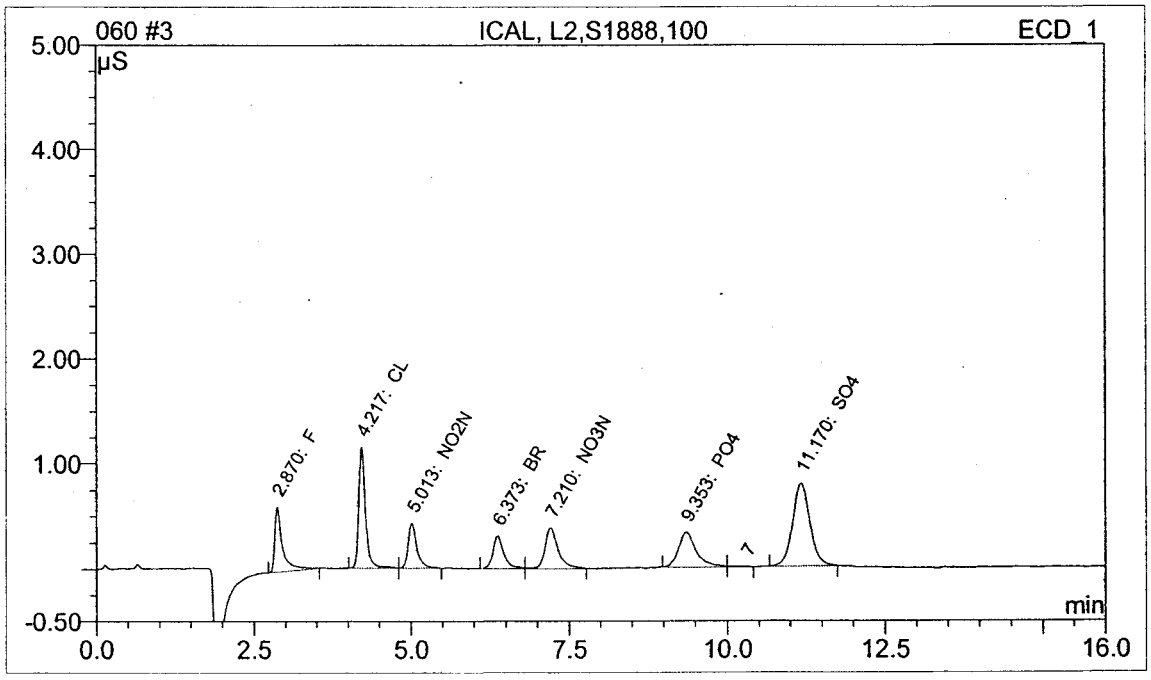
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L2,S1888,100	**Sample No.:**	3
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:20 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.089672	0.4613	0.4613	
2	CL	4.217	0.147367	0.9803	0.9803	
3	NO2N	5.013	0.069403	0.2357	0.2357	
4	BR	6.373	0.062700	1.0120	1.0120	
5	NO3N	7.210	0.095842	0.2566	0.2566	
6	PO4	9.353	0.108648	0.9258	0.9258	
8	SO4	11.170	0.251558	2.3929	2.3929	



ANALYZED BY: _____

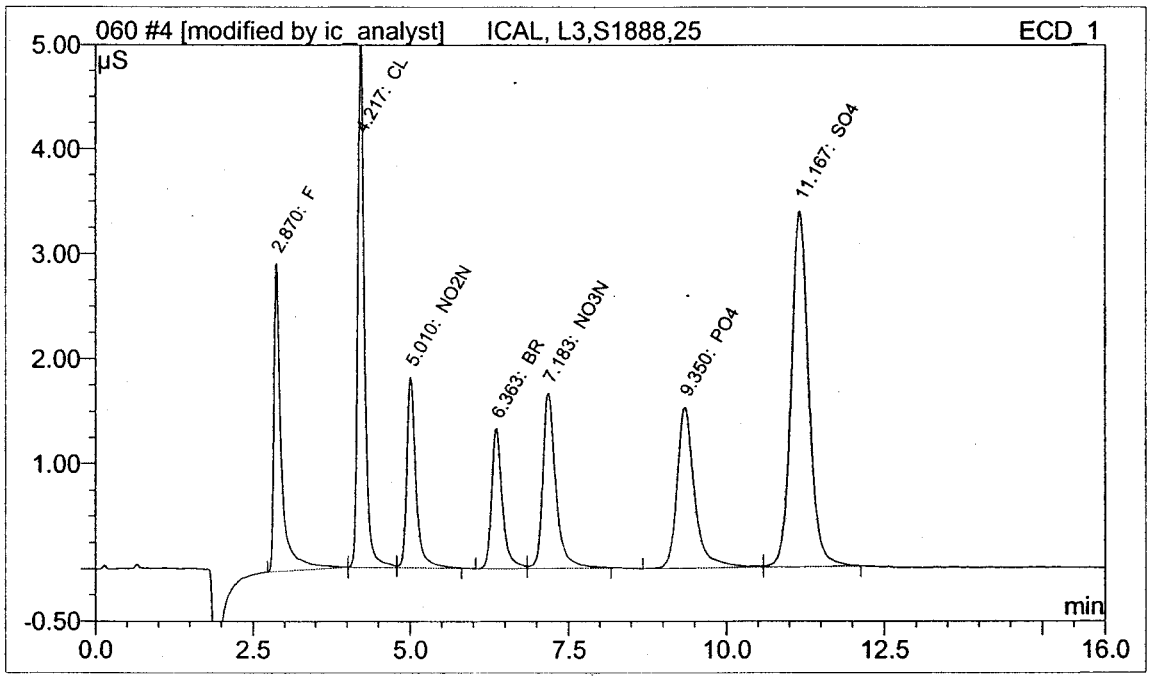
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L3,S1888,25	**Sample No.:**	4
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:39 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.402286	2.0231	2.0231	
2	CL	4.217	0.629116	4.0722	4.0722	
3	NO2N	5.010	0.303748	1.0189	1.0189	
4	BR	6.363	0.265105	4.2189	4.2189	
5	NO3N	7.183	0.397785	1.0470	1.0470	
6	PO4	9.350	0.496547	4.1277	4.1277	
7	SO4	11.167	1.098657	10.2090	10.2090	



ANALYZED BY: _____

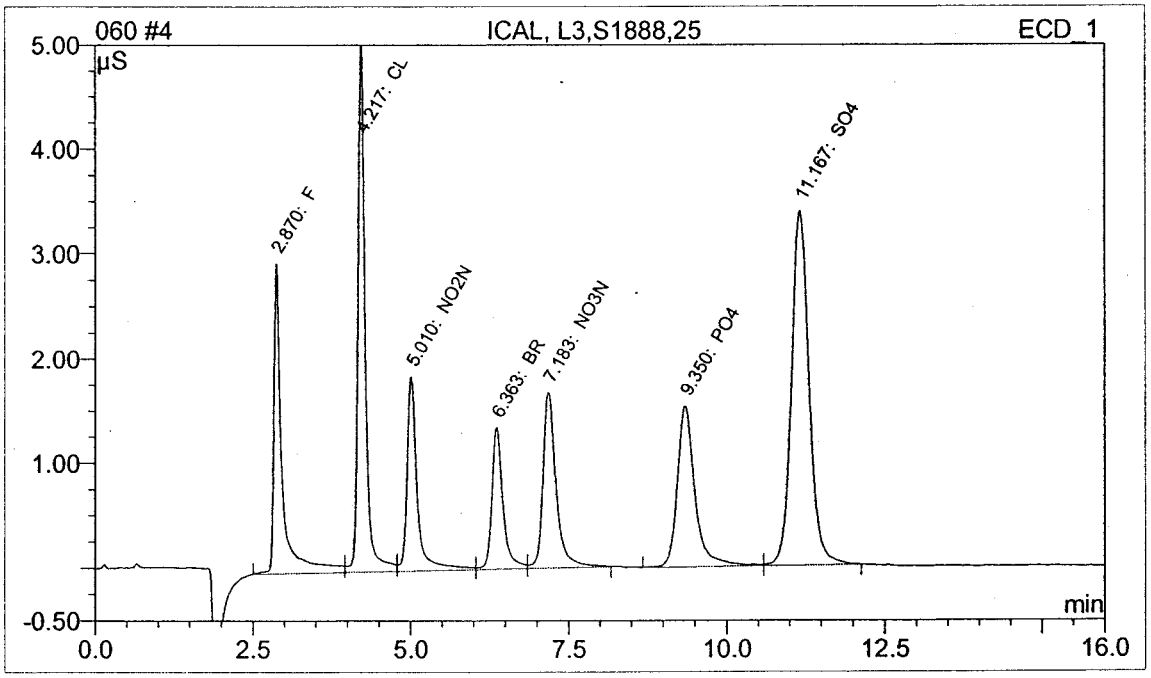
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L3,S1888,25	**Sample No.:**	4
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:39 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.455269	2.2018	2.2018	
2	CL	4.217	0.670131	4.2507	4.2507	
3	NO2N	5.010	0.344377	1.1110	1.1110	
4	BR	6.363	0.276408	4.3412	4.3412	
5	NO3N	7.183	0.404782	1.0595	1.0595	
6	PO4	9.350	0.496547	4.1277	4.1277	
7	SO4	11.167	1.098657	10.2090	10.2090	



ANALYZED BY: _____

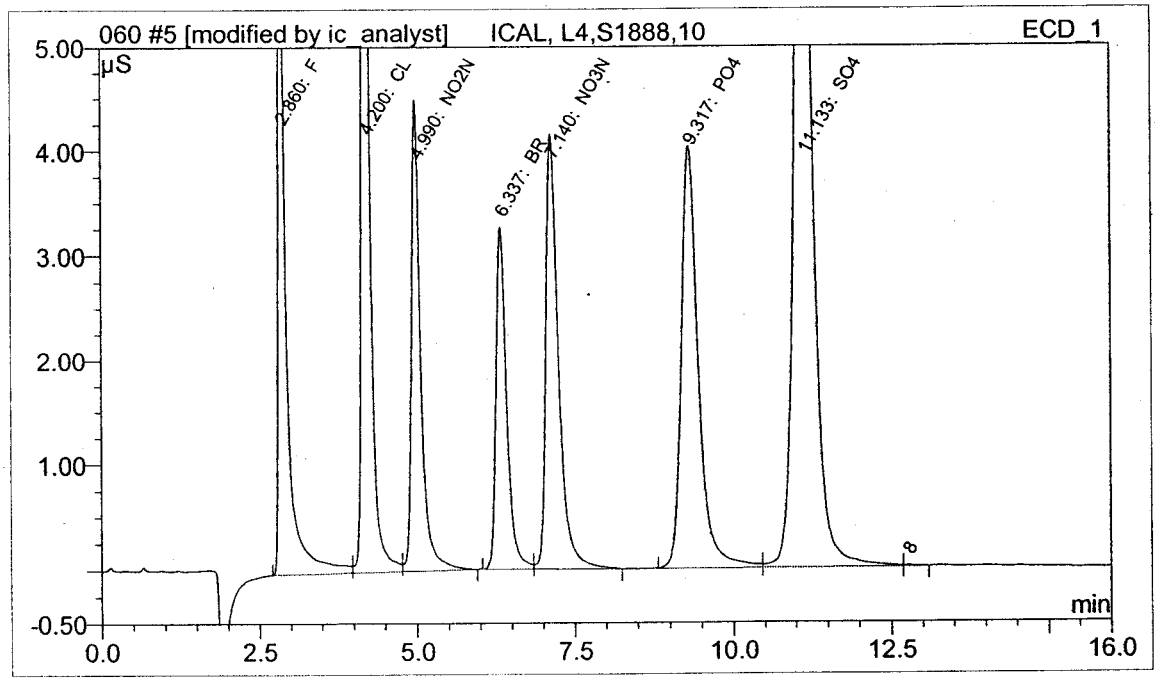
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L4,S1888,10	**Sample No.:**	5
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:57 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.860	1.029135	4.9857	4.9857	
2	CL	4.200	1.617474	9.9589	9.9589	
3	NO2N	4.990	0.759872	2.4911	2.4911	
4	BR	6.337	0.635291	9.8662	9.8662	
5	NO3N	7.140	0.967493	2.4706	2.4706	
6	PO4	9.317	1.248459	9.9383	9.9383	
7	SO4	11.133	2.795566	24.8943	24.8943	



ANALYZED BY: _____

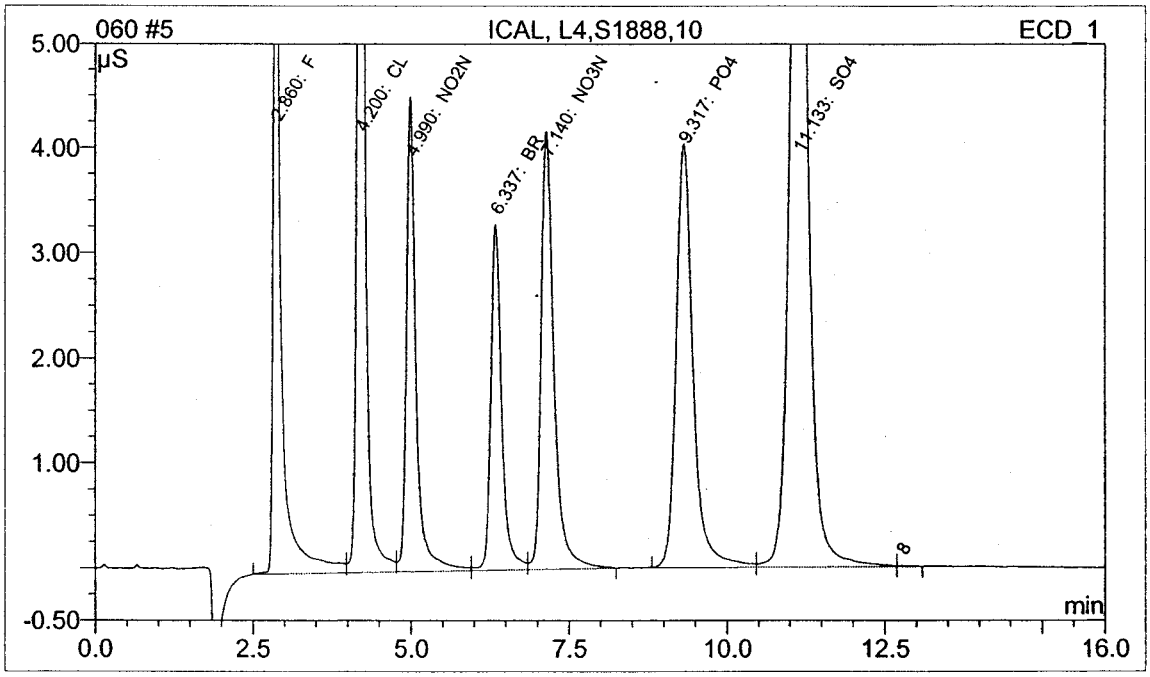
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L4,S1888,10	**Sample No.:**	5
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:57 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.860	1.056871	5.0244	5.0244	
2	CL	4.200	1.636258	9.9916	9.9916	
3	NO2N	4.990	0.792664	2.5227	2.5227	
4	BR	6.337	0.658007	9.9696	9.9696	
5	NO3N	7.140	0.980796	2.4805	2.4805	
6	PO4	9.317	1.248459	9.9383	9.9383	
7	SO4	11.133	2.795566	24.8943	24.8943	



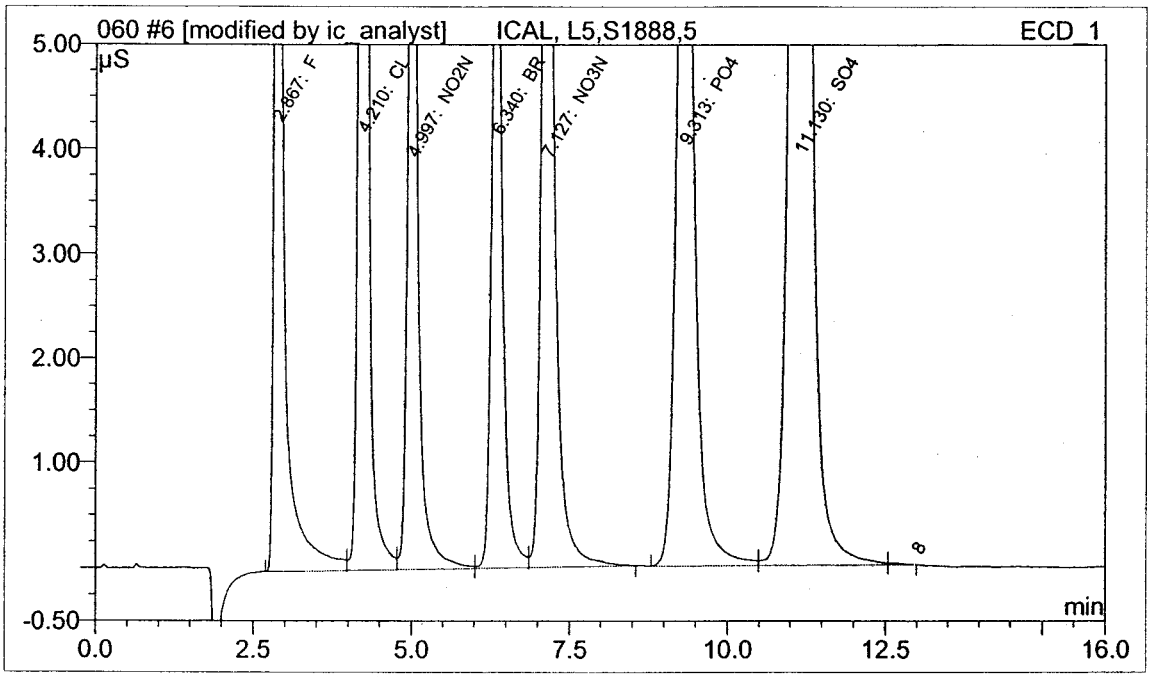
ANALYZED BY: REVIEWED BY:

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L5,S1888,5	**Sample No.:**	6
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:15 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.867	2.192959	10.0024	10.0024	
2	CL	4.210	3.519967	20.0067	20.0067	
3	NO2N	4.997	1.584757	5.0014	5.0014	
4	BR	6.340	1.345233	20.0232	20.0232	
5	NO3N	7.127	2.063887	5.0051	5.0051	
6	PO4	9.313	2.698316	20.0096	20.0096	
7	SO4	11.130	6.017213	50.0167	50.0167	



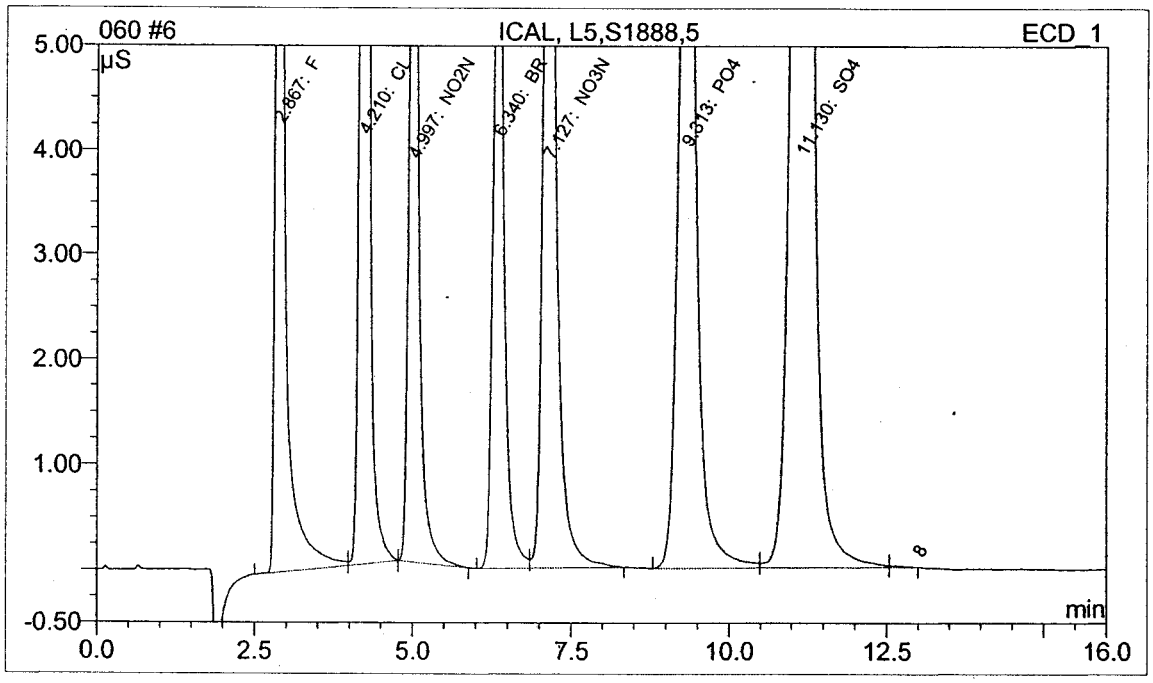
ANALYZED BY: REVIEWED BY:

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L5,S1888,5	**Sample No.:**	6
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:15 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.867	2.155657	10.0007	10.0007	
2	CL	4.210	3.453075	20.0031	20.0031	
3	NO2N	4.997	1.510616	4.9988	4.9988	
4	BR	6.340	1.331781	20.0216	20.0216	
5	NO3N	7.127	2.045893	5.0047	5.0047	
6	PO4	9.313	2.698316	20.0096	20.0096	
7	SO4	11.130	6.017213	50.0167	50.0167	



ANALYZED BY: REVIEWED BY:

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626087283007 File : 060_7.000 Time : 01-MAR-2006 16:34
Cal : 626087283001 Caldate: 01-MAR-2006
Standards: S1085 (5X)

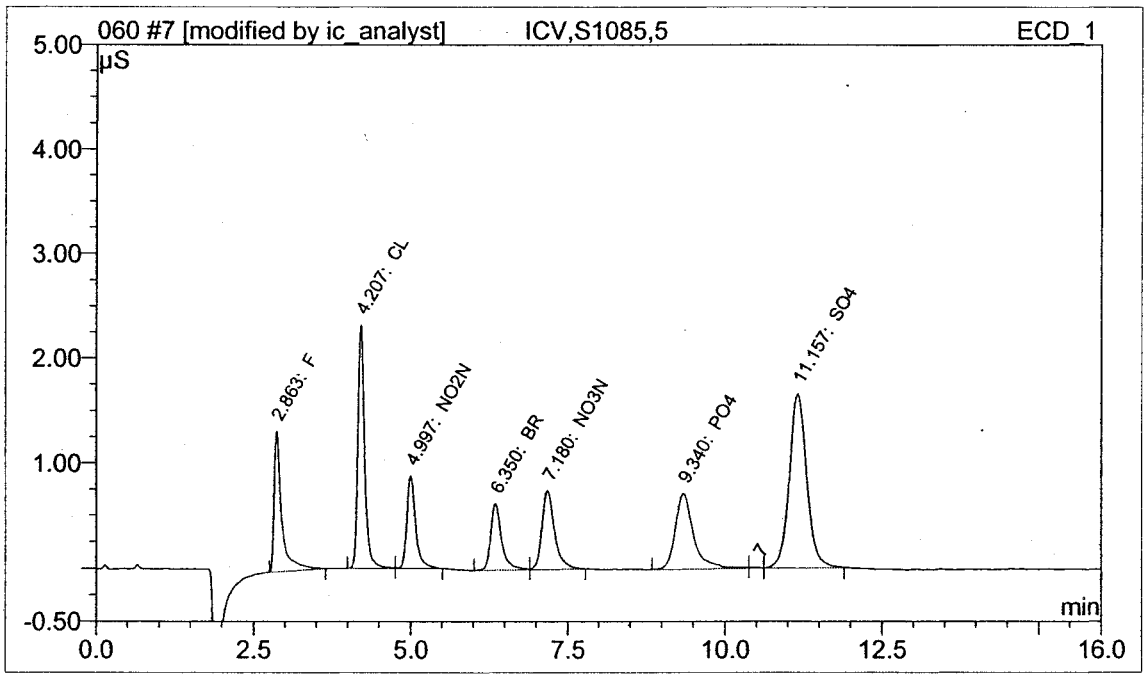
Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Fluoride	0.1990	0.1858	1.000	0.9473	mg/L	-5	10	
Chloride	0.1686	0.1455	2.000	1.920	mg/L	-4	10	
Nitrogen, Nitrite	0.2943	0.2873	0.5000	0.4860	mg/L	-3	10	
Bromide	0.0614	0.0638	2.000	2.050	mg/L	2	10	
Nitrogen, Nitrate	0.3874	0.3456	0.5000	0.4606	mg/L	-8	10	
Orthophosphate (as P)	0.1182	0.1201	2.000	2.029	mg/L	1	10	N1
Sulfate	0.1099	0.1070	5.000	5.047	mg/L	1	10	

MRS 3/2/06

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:34 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.863	0.185760	0.9473	0.9473	
2	CL	4.207	0.291093	1.9202	1.9202	
3	NO2N	4.997	0.143651	0.4860	0.4860	
4	BR	6.350	0.127568	2.0496	2.0496	
5	NO3N	7.180	0.172776	0.4606	0.4606	
6	PO4	9.340	0.240207	2.0292	2.0292	
8	SO4	11.157	0.534812	5.0468	5.0468	



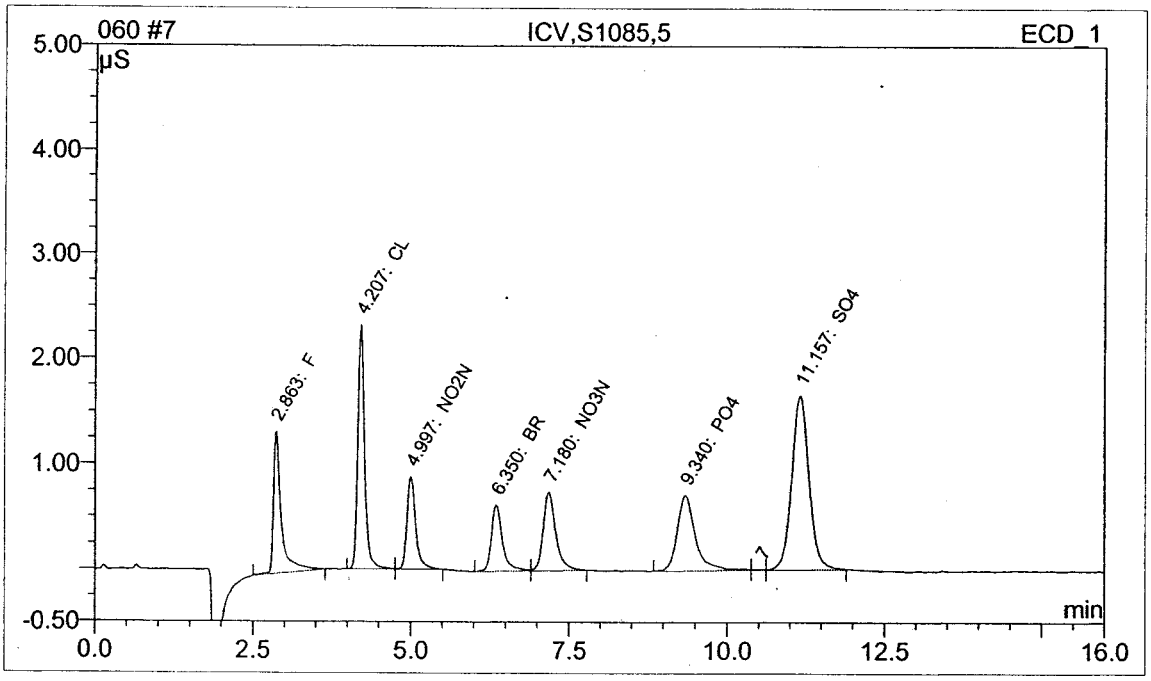
ANALYZED BY: REVIEWED BY:

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:34 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.863	0.193974	0.9887	0.9887	
2	CL	4.207	0.291093	1.9202	1.9202	
3	NO2N	4.997	0.143651	0.4860	0.4860	
4	BR	6.350	0.127568	2.0496	2.0496	
5	NO3N	7.180	0.172776	0.4606	0.4606	
6	PO4	9.340	0.240207	2.0292	2.0292	
8	SO4	11.157	0.534812	5.0468	5.0468	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CONTINUING CALIBRATION SUMMARY FOR 187112 IC Water
Curtis & Tompkins Laboratories

Analyte: Fluoride

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC03	P	626210965007	26-MAY-2006 11:10	626087283001	01-MAR-2006	0.1990	0.1894	0.5000	0.4859	mg/L	-3	10	
IC03	P	626210965018	26-MAY-2006 15:00	626087283001	01-MAR-2006	0.1990	0.1982	2.0000	1.9939	mg/L	0	10	
IC03	P	626210965030	26-MAY-2006 18:59	626087283001	01-MAR-2006	0.1990	0.2124	5.0000	5.1364	mg/L	3	10	
IC03	P	626210965045	26-MAY-2006 23:40	626087283001	01-MAR-2006	0.1990	0.2013	2.0000	2.0246	mg/L	1	10	

CONTINUING CALIBRATION SUMMARY FOR 187112 IC Water
Curtis & Tompkins Laboratories

Analyte: Chloride

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC03	P	626210965007	26-MAY-2006 11:10	626087283001	01-MAR-2006	0.1686	0.1410	1.0000	0.9380	mg/L	-6	10	
IC03	P	626210965018	26-MAY-2006 15:00	626087283001	01-MAR-2006	0.1686	0.1522	4.0000	3.9447	mg/L	-1	10	
IC03	P	626210965030	26-MAY-2006 18:59	626087283001	01-MAR-2006	0.1686	0.1649	10.000	10.139	mg/L	1	10	
IC03	P	626210965045	26-MAY-2006 23:40	626087283001	01-MAR-2006	0.1686	0.1551	4.0000	4.0169	mg/L	0	10	
IC03	P	626210965055	27-MAY-2006 02:45	626087283001	01-MAR-2006	0.1686	0.1473	1.0000	0.9796	mg/L	-2	10	

CONTINUING CALIBRATION SUMMARY FOR 187112 IC Water
Curtis & Tompkins Laboratories

Analyte: Nitrogen, Nitrite

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC03	P	626210965007	26-MAY-2006 11:10	626087283001	01-MAR-2006	0.2943	0.3043	0.2500	0.2583	mg/L	3	10	
IC03	P	626210965018	26-MAY-2006 15:00	626087283001	01-MAR-2006	0.2943	0.3124	1.0000	1.0476	mg/L	5	10	
IC03	P	626210965030	26-MAY-2006 18:59	626087283001	01-MAR-2006	0.2943	0.3265	2.5000	2.6689	mg/L	7	10	
IC03	P	626210965045	26-MAY-2006 23:40	626087283001	01-MAR-2006	0.2943	0.3086	1.0000	1.0349	mg/L	3	10	

CONTINUING CALIBRATION SUMMARY FOR 187112 IC Water
Curtis & Tompkins Laboratories

Analyte: Nitrogen, Nitrate

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC03	P	626210965007	26-MAY-2006 11:10	626087283001	01-MAR-2006	0.3874	0.3387	0.2500	0.2269	mg/L	-9	10	
IC03	P	626210965018	26-MAY-2006 15:00	626087283001	01-MAR-2006	0.3874	0.3595	1.0000	0.9483	mg/L	-5	10	
IC03	P	626210965030	26-MAY-2006 18:59	626087283001	01-MAR-2006	0.3874	0.3741	2.5000	2.3923	mg/L	-4	10	
IC03	P	626210965045	26-MAY-2006 23:40	626087283001	01-MAR-2006	0.3874	0.3705	1.0000	0.9766	mg/L	-2	10	
IC03	P	626210965055	27-MAY-2006 02:45	626087283001	01-MAR-2006	0.3874	0.3463	0.2500	0.2319	mg/L	-7	10	

CONTINUING CALIBRATION SUMMARY FOR 187112 IC Water
Curtis & Tompkins Laboratories

Analyte: Sulfate

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC03	P	626210965007	26-MAY-2006 11:10	626087283001	01-MAR-2006	0.1099	0.1046	2.5000	2.4859	mg/L	-1	10	
IC03	P	626210965018	26-MAY-2006 15:00	626087283001	01-MAR-2006	0.1099	0.1109	10.000	10.298	mg/L	3	10	
IC03	P	626210965030	26-MAY-2006 18:59	626087283001	01-MAR-2006	0.1099	0.1159	25.000	25.734	mg/L	3	10	
IC03	P	626210965045	26-MAY-2006 23:40	626087283001	01-MAR-2006	0.1099	0.1123	10.000	10.428	mg/L	4	10	
IC03	P	626210965055	27-MAY-2006 02:45	626087283001	01-MAR-2006	0.1099	0.1047	2.5000	2.4899	mg/L	0	10	

CURTIS & TOMPKINS BLANK USER REPORT FOR 187112 IC Water
EPA 300.0

Inst	: IC03	Lab ID	: QC341764		
Seqnum	: 626210965008.2	Matrix	: Water		
File	: 146_8.000	Batch	: 113873	Time	: 26-MAY-2006 11:28
IDF	: 1.0	PDF	: 1.0	Units	: mg/L
Cal	: 626087283001	Caldate	: 01-MAR-2006		

Analyte	Result	RL	Flags
Fluoride	ND	0.10	
Chloride	ND	0.20	
Nitrogen, Nitrite	ND	0.05	
Nitrogen, Nitrate	ND	0.05	
Sulfate	ND	0.50	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 187112 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626210965019 File : 146_19.000 Time : 26-MAY-2006 15:18
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 187112 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626210965031 File : 146_31.000 Time : 26-MAY-2006 19:17
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 187112 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626210965046 File : 146_46.000 Time : 26-MAY-2006 23:59
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 187112 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626210965056 File : 146_56.000 Time : 27-MAY-2006 03:03
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

SEQUENCE SUMMARY FOR 187112 IC Water
Curtis & Tompkins Laboratories

Sequence: 626087283 Instrument: IC03 Ion Chromatograph Begun: 01-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	060_1.00	IB				01-MAR-2006 14:43	1.0		25				
002	060_2.00	ICAL	L1			01-MAR-2006 15:02	1.0					1	
003	060_3.00	ICAL	L2			01-MAR-2006 15:20	1.0					1	
004	060_4.00	ICAL	L3			01-MAR-2006 15:39	1.0					1	
005	060_5.00	ICAL	L4			01-MAR-2006 15:57	1.0					1	
006	060_6.00	ICAL	L5			01-MAR-2006 16:15	1.0					1	
007	060_7.00	ICV				01-MAR-2006 16:34	1.0		25			2	
008	060_8.00	ICB				01-MAR-2006 16:52	1.0		25				

507

Stds used: 1=S1888 2=S1085

SEQUENCE SUMMARY FOR 187112 IC Water
Curtis & Tompkins Laboratories

Sequence: 626210965 Instrument: IC03 Ion Chromatograph Begun: 26-MAY-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
007	146_7.00	CCV	L	113873		26-MAY-2006 11:10	1.0		25			1	
008	146_8.00	CCB/MB	QC341764	113873	Water	26-MAY-2006 11:28	1.0		25				
009	146_9.00	BS	QC341765	113873	Water	26-MAY-2006 11:47	1.0		25			1	
010	146_10.0	BSD	QC341766	113873	Water	26-MAY-2006 12:05	1.0		25			1	
011	146_11.0	SAMPLE	187075-003	113873	Water	26-MAY-2006 12:26	100.0		25				
012	146_12.0	SAMPLE	187075-004	113873	Water	26-MAY-2006 12:44	50.0		25				
013	146_13.0	SAMPLE	187075-001	113873	Water	26-MAY-2006 13:03	25.0		25				
014	146_14.0	SAMPLE	187075-005	113873	Water	26-MAY-2006 13:21	25.0		25				
015	146_15.0	SAMPLE	187075-006	113873	Water	26-MAY-2006 13:39	25.0		25				
016	146_16.0	SAMPLE	187075-008	113873	Water	26-MAY-2006 14:23	1.0		25				
017	146_17.0	SAMPLE	187075-003	113873	Water	26-MAY-2006 14:41	3.0	2	25				2:SO4=388.112
018	146_18.0	CCV	M	113873		26-MAY-2006 15:00	1.0		25			1	
019	146_19.0	CCB		113873		26-MAY-2006 15:18	1.0		25				
020	146_20.0	SAMPLE	187075-004	113873	Water	26-MAY-2006 15:36	2.0	2	25				2:SO4=394.010
021	146_21.0	SAMPLE	187075-001	113873	Water	26-MAY-2006 15:55	1.0	2	25				2:SO4=169.427
022	146_22.0	SAMPLE	187075-005	113873	Water	26-MAY-2006 16:13	1.0	1	25				1:SO4=163.479
023	146_23.0	SAMPLE	187075-006	113873	Water	26-MAY-2006 16:32	1.0	2	25				2:SO4=140.873
024	146_24.0	SAMPLE	187112-003	113873	Water	26-MAY-2006 17:03	100.0		25				
025	146_25.0	SAMPLE	187112-004	113873	Water	26-MAY-2006 17:22	50.0		25				
026	146_26.0	MSS	187112-002	113873	Water	26-MAY-2006 17:45	1.0	3	25				3:SO4=73.6775
027	146_27.0	SAMPLE	187112-010	113873	Water	26-MAY-2006 18:04	1.0	2	25				2:CL=75.7739
028	146_28.0	SAMPLE	187112-009	113873	Water	26-MAY-2006 18:22	1.0	2	25				2:SO4=99.8073
029	146_29.0	SAMPLE	187112-008	113873	Water	26-MAY-2006 18:41	1.0	2	25				2:SO4=65.8532
030	146_30.0	CCV	H	113873		26-MAY-2006 18:59	1.0		25			1	
031	146_31.0	CCB		113873		26-MAY-2006 19:17	1.0		25				
032	146_32.0	MSS	187112-002	113873	Water	26-MAY-2006 19:36	10.0		25				
033	146_33.0	MS	QC341767	113873	Water	26-MAY-2006 20:00	10.0		25			1	
034	146_34.0	MSD	QC341768	113873	Water	26-MAY-2006 20:18	10.0		25			1	
035	146_35.0	X	BLK	113873		26-MAY-2006 20:36	1.0						
036	146_36.0	SAMPLE	187112-011	113873	Water	26-MAY-2006 20:55	1.0		25				
037	146_37.0	SAMPLE	187112-013	113873	Water	26-MAY-2006 21:13	1.0		25				

Stds used: 1=S3313

SEQUENCE SUMMARY FOR 187112 IC Water
Curtis & Tompkins Laboratories

Sequence: 626210965 Instrument: IC03 Ion Chromatograph Begun: 26-MAY-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
038	146_38.0	SAMPLE	187112-012	113873	Water	26-MAY-2006 21:32	1.0	2	25			2:CL=87.2300	
039	146_39.0	SAMPLE	187112-006	113873	Water	26-MAY-2006 21:50	1.0	3	25			3:CL=138.927	
040	146_40.0	SAMPLE	187112-007	113873	Water	26-MAY-2006 22:08	1.0	3	25			3:CL=138.910	
041	146_41.0	SAMPLE	187112-003	113873	Water	26-MAY-2006 22:27	1.0	1	25			1:SO4=311.657	
042	146_42.0	X	BLK	113873		26-MAY-2006 22:45	1.0						
043	146_43.0	SAMPLE	187112-004	113873	Water	26-MAY-2006 23:04	1.0	2	25			2:CL=201.979	
044	146_44.0	X	BLK	113873		26-MAY-2006 23:22	1.0						
045	146_45.0	CCV	M	113873		26-MAY-2006 23:40	1.0		25			1	
046	146_46.0	CCB		113873		26-MAY-2006 23:59	1.0		25				
047	146_47.0	X	CCV	113873		27-MAY-2006 00:17	1.0					1	
048	146_48.0	X	CCB	113873		27-MAY-2006 00:36	1.0						
049	146_49.0	SAMPLE	187112-010	113873	Water	27-MAY-2006 00:54	10.0		25				
050	146_50.0	SAMPLE	187112-006	113873	Water	27-MAY-2006 01:12	25.0		25				
051	146_51.0	SAMPLE	187112-007	113873	Water	27-MAY-2006 01:31	25.0		25				
052	146_52.0	SAMPLE	187112-008	113873	Water	27-MAY-2006 01:49	25.0		25				
053	146_53.0	SAMPLE	187112-009	113873	Water	27-MAY-2006 02:08	25.0		25				509
054	146_54.0	SAMPLE	187112-012	113873	Water	27-MAY-2006 02:26	25.0		25				
055	146_55.0	CCV	L	113873		27-MAY-2006 02:45	1.0		25			1	
056	146_56.0	CCB		113873		27-MAY-2006 03:03	1.0		25				
057	146_57.0	X	CCV	113873		27-MAY-2006 03:21	1.0					1	
058	146_58.0	X	CCB	113873		27-MAY-2006 03:40	1.0						
059	146_59.0	X	SHUTDOWN	113873		27-MAY-2006 03:58	1.0						

Stds used: 1=S3313

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187112 IC Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	CL	NO2N	NO3N	SO4
187112-002	IC03	05/26/06 17:45	1.0	+		+		
187112-002	IC03	05/26/06 19:36	10.0		+		+	+
187112-003	IC03	05/26/06 17:03	100.0		+			+
187112-003	IC03	05/26/06 22:27	1.0	+		+	+	
187112-004	IC03	05/26/06 17:22	50.0		+			+
187112-004	IC03	05/26/06 23:04	1.0	+		+	+	
187112-006	IC03	05/26/06 21:50	1.0	+		+		
187112-006	IC03	05/27/06 01:12	25.0		+		+	+
187112-007	IC03	05/26/06 22:08	1.0	+		+		
187112-007	IC03	05/27/06 01:31	25.0		+		+	+
187112-008	IC03	05/26/06 18:41	1.0	+		+	+	
187112-008	IC03	05/27/06 01:49	25.0		+			+
187112-009	IC03	05/26/06 18:22	1.0	+		+	+	
187112-009	IC03	05/27/06 02:08	25.0		+			+
187112-010	IC03	05/26/06 18:04	1.0	+		+	+	
187112-010	IC03	05/27/06 00:54	10.0		+			+
187112-011	IC03	05/26/06 20:55	1.0	+	+	+	+	+
187112-012	IC03	05/26/06 21:32	1.0	+		+	+	
187112-012	IC03	05/27/06 02:26	25.0		+			+
187112-013	IC03	05/26/06 21:13	1.0	+	+	+	+	+
QC341764	IC03	05/26/06 11:28	1.0	+	+	+	+	+
QC341765	IC03	05/26/06 11:47	1.0	+	+	+	+	+
QC341766	IC03	05/26/06 12:05	1.0	+	+	+	+	+
QC341767	IC03	05/26/06 20:00	10.0	+	+	+	+	+
QC341768	IC03	05/26/06 20:18	10.0	+	+	+	+	+

Curtis & Tompkins, Ltd. **Water Prep Log** Ion Chromatography

Analysis: ☒ Anions EPA 300 / EPA 9056
☐ Perchlorate (ClO_4) EPA 314
☐ Cr6+ EPA 7199

Batch#: 113873
Date Started: 5/26/06
Prep Chemist: MRS

BK 2305
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	Sample #	Conductivity	Estimated Dilution Factor	Filters Used	Comments
1	187075-001 G	1.27	25x / 1x	S	
2	-003	3.42	100x / 3x		
3	-004	2.47	50x / 2x		
4	-005	1.24	25x / 1x		
5	-006	1.41	25x / 1x		
6	-008	0.02	1x		
7	187112-002 F	0.76	1x / 10x		MSS
8	-003 B	3.36	/ 100x		
9	-004	2.15	/ 50x		
10	-006	1.55	/ 25x		
11	-007	1.55	/ 25x		
12	-008	1.21	/ 25x		
13	-009	1.20	/ 25x		
14	-010	0.92	/ 10x		
15	-011	0.03			
16	-012	1.50	/ 25x		
17	-013 N	0.08			
18	Blank QC341764	N/A	1x	N/A	
19	BS QC341765				
20	BSD QC341766				
	MS QC341767 F		10x	S	
	MSD QC341768 F		10x	S	
	MRS 5/26/06				

		Mfg & Lot # / Time / Program	Initials / Date
	Eluent Reagent ID	100x MRS 4/17/06	MRS 5/26/06
BS/BSD Spiked with	0.2 mL of :	S3313	
MS/MSD Spiked with	0.1 mL of :	S3313	
Filters Used:	Ag: OnGuard II Ag	N/A	
	Na: OnGuard II Na		
	P: OnGuard II P		
	RP: OnGuard II RP		
	S: 0.20um/0.45um	Acrodisc lot#A1053934b	

MRS 5/26/06
Extraction Chemist / Date

Continued from page 311
Continued on page

CP 5/31/06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 113873
Date Started: 26-MAY-2006
Batched by : Micah Smith

Analysis : N/A
Bgroup : IC
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
187075-001			Tetra Tech EC, INC	Water	CHLORIDE, NITRATE, SULFATE	07-JUN-2006
187075-003			Tetra Tech EC, INC	Water	CHLORIDE, NITRATE, SULFATE	07-JUN-2006
187075-004			Tetra Tech EC, INC	Water	CHLORIDE, NITRATE, SULFATE	07-JUN-2006
187075-005			Tetra Tech EC, INC	Water	CHLORIDE, NITRATE, SULFATE	07-JUN-2006
187075-006			Tetra Tech EC, INC	Water	CHLORIDE, NITRATE, SULFATE	07-JUN-2006
187075-008			Tetra Tech EC, INC	Water	CHLORIDE, NITRATE, SULFATE	07-JUN-2006
187112-002			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	08-JUN-2006
187112-003			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	08-JUN-2006
187112-004			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	08-JUN-2006
187112-006			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	08-JUN-2006
187112-007			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	08-JUN-2006
187112-008			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	08-JUN-2006
187112-009			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	08-JUN-2006
187112-010			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	08-JUN-2006
187112-011			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	08-JUN-2006
187112-012			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	08-JUN-2006
187112-013			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	08-JUN-2006
QC341764	BLANK			Water		
QC341765	BS			Water		
QC341766	BSD			Water		
QC341767	MS	of 187112-002		Water		
QC341768	MSD	of 187112-002		Water		

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 300.0 Water
As of 07/05/06

Analyte	Units	IC01	IC03
Fluoride	mg/L	0.018	0.023
Chloride	mg/L	0.026	0.032
Nitrogen, Nitrite	mg/L	0.0067	0.012
Bromide	mg/L	0.058	0.028
Nitrogen, Nitrate	mg/L	0.018	0.0088
Orthophosphate (as P)	mg/L	0.045	0.037
Sulfate	mg/L	0.046	0.079

Curtis & Tompkins, Ltd.

Phenolic Compounds

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Analysis:	EPA 420.1
Project#:	2893.04.51		
Analyte:	Phenolic Compounds	Batch#:	114229
Field ID:	WT052506	Sampled:	05/25/06
Matrix:	Water	Received:	05/26/06
Units:	mg/L	Analyzed:	06/08/06
Diln Fac:	1.000		

Type	Lab ID	Result	RL
SAMPLE	187112-005	ND	0.050
BLANK	QC343202	ND	0.050

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Phenolic Compounds

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Analysis:	EPA 420.1
Project#:	2893.04.51		
Analyte:	Phenolic Compounds	Diln Fac:	1.000
Matrix:	Water	Batch#:	114229
Units:	mg/L	Analyzed:	06/08/06

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC343203	0.1000	0.1072	107	80-120		
BSD	QC343204	0.1000	0.1042	104	80-120	3	20

RPD= Relative Percent Difference

Analysis: **Phenolic Compounds**
Method: **EPA 420.1**
Instrument: HP UV-VIS Spectrometer
Wavelength: 510 nm
SOP#: phenols_rv 7.doc

Matrix: Water
Batch: **114229**
Prep Date: **6/8/2006**
Analysis Date: **6/8/2006**
Analyst: DMc

INITIAL CALIBRATION DATA

Calibration Date: 6/02/06

Conc (mg/L)	ABS	RF
0.0000	0.0000	
0.0500	0.0060	0.1200
0.1000	0.0137	0.1370
0.2000	0.0276	0.1380
0.5000	0.0683	0.1366
0.8000	0.1098	0.1373
1.0000	0.1369	0.1369
1.5000	0.2016	0.1344

Correlation Coefficient (r): 0.9999
Avg Rf: 0.1343
%RSD: 4.8

Note: Average Rf used to calculate sample results.

CONTINUING CALIBRATION DATA

	ABS	Conc (mg/L)	True (mg/L)	Recovery	CV Limits
ICV	0.0659	0.4907	0.5000	98%	90 - 110%
ICB	-0.0012	-0.0089	0.0000		
CCV	0.0683	0.5085	0.5000	102%	90 - 110%
CCB	0.0020	0.0149	0.0000		

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Analysis: **Phenolic Compounds**
Method: **EPA 420.1**
Instrument: HP UV-VIS Spectrometer
Wavelength: 510 nm

Matrix: Water
Batch: **114229**
Prep Date: **6/8/2006**
Analysis Date: **6/8/2006**
Analyst: DMc

SAMPLE & BATCH QC DATA

Sample ID	Sample Distilled (mL)	Distillate Colored (mL)	Instrument Dilution	ABS	**Report** mg/L	Reporting Limit (mg/L)	Vol Spike Added (mL)	Std Conc. (mg/L)	Spiked @ (mg/L)	**% Rec**	**% RPD**
MB	500	50.0	1.0000	0.0019	**ND**	0.050					
BS	500	50.0	1.0000	0.0144	**0.10722**	0.050	5.0	10.0	0.1000	**107**	
BSD	500	50.0	1.0000	0.0140	**0.10424**	0.050	5.0	10.0	0.1000	**104**	3
187113-2	500	50.0	1.0000	0.1278	**0.95155**	0.050					
187110-3	500	50.0	1.0000	0.0128	**0.09530**	0.050					
187110-5	500	50.0	1.0000	0.0048	**ND**	0.050					
187112-5	500	50.0	1.0000	0.0033	**ND**	0.050					

D TKM 6/8/06

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QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	80 - 120
MS/ MSD	30	70 - 130

Reviewed by/ Date: TKM 6/8/06

---> Quantitation Results Report <---

Date : 06-~~03~~ 06-2006
Time : 09:30:14 6-8-06 DM
Operator : Not Entered

ile Name : Data not stored yet

ample Name : phenols
olvent Name : CAL 6/2/06
onc Units : ug/l
il. Factor : 1.00

Analytical Wavelength : 510 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

AMPLE #	Sample Name	Wavelength	Func. Res.	Concentration
1	icb	Analytical	-0.0012	0.00000
2	icv	Analytical	+0.0659	486.32800
3	187110-2	Analytical	+0.1278	942.49963
4	187110-3	Analytical	+0.0128	94.06992
5	187110-5	Analytical	+0.0048	35.21996
6	187112-5	Analytical	+0.0033	23.96758
7	bs	Analytical	+0.0144	106.10997
8	bsd	Analytical	+0.0140	103.40940
9	mb	Analytical	+0.0019	14.06548
10	ccv	Analytical	+0.0683	503.54416
11	ccb	Analytical	+0.0020	14.51557

---> Standard Calibration Report <---

Date : 06-~~03~~ 8-2006 6-8-06
Time : 09:30:30
Operator : Not Entered

ile Name : C:\UV\DATA\phen606.STD

ample Name : phenols
olvent Name : CAL 6/2/06
onc Units : ug/l

Analytical Wavelength : 510 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

nalytical Function Concentration = +7.374E+03 * Absorbance

STD #	Concentration	Absorbance	% Error
1	0.00000	-.0008	*****
2	50.00000	0.0060	+13.355 %
3	100.00000	0.0137	-0.925 %
4	200.00000	0.0276	-1.584 %
5	500.00000	0.0683	-0.682 %
6	800.00000	0.1098	-1.173 %
7	1000.00000	0.1369	-0.969 %
8	1500.00000	0.2016	+0.897 %

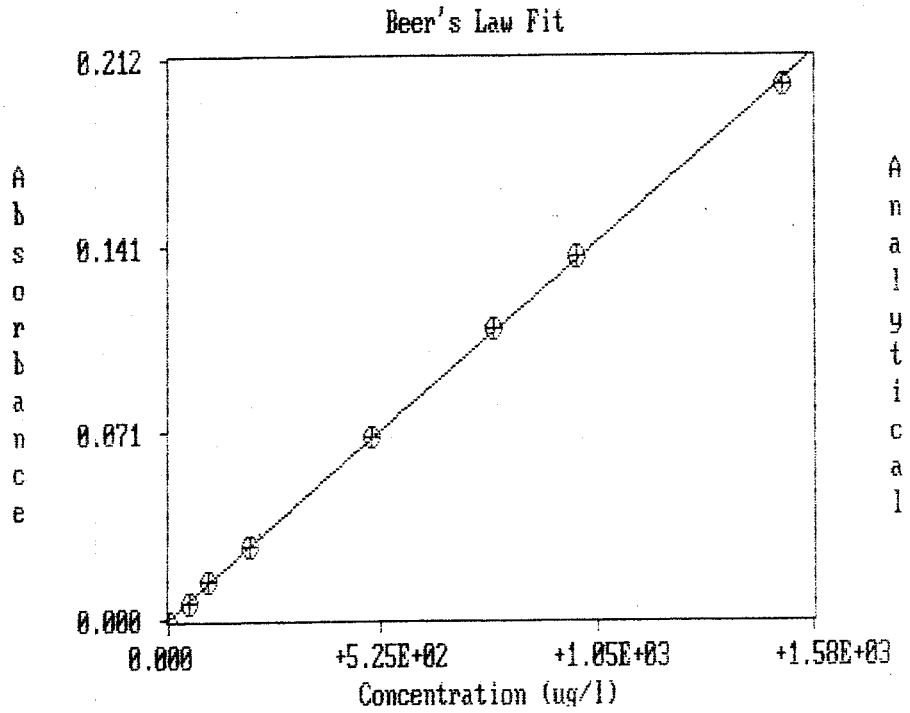
Date : 06-~~03~~ 8 -2006
Time : 09:30:32 6-8-06
Operator : Not Entered

---> Standard Calibration Report <---

ile Name : C:\UV\DATA\phen606.STD

ample Name : phenols
olvent Name : CAL 6/2/06
onc Units : ug/l

Analytical Wavelength : 510 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds



TREADWELL 187112 Bk 2310
UNION SANITARY 187110

Phenols EPA 420.1 B 114229

Sample	Vol (ml)	Final Vol (ml)	Vol (ml) for Color	ABS	
187110-2 A	500	500	50	.1278	
-3				.0128	
-5				.0048	
187112-5E				.0033	
BS	+ 5ml (10 µg/ml dilⁿ of S3176 1ml — 100ml)			.0144	
BSD	same as BS			.0140	
MB				.0019	
ICB				-.0012	
ICV	5ml (10 µg/ml dilⁿ of S3176) - 108		50	.0659	TV = .50 mg/L
CCV				.0683	
CCB				.0020	

tests for Cl & $S^{=}$ negative
pH all < 2

Dm 6-8-06 S.T. 6.8.06

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 114229
Date Started: 08-JUN-2006
Batched by : Dennis McCanna

Analysis : PHENOL/WET
Bgroup : N/A
Department : Wet Chemistry

Sample	Type	Client	Matrix	Analyses	Due Date
187110-002		Union Sanitary Dis	Water	PHENOL/WET	08-JUN-2006
187110-003		Union Sanitary Dis	Water	PHENOL/WET	08-JUN-2006
187110-005		Union Sanitary Dis	Water	PHENOL/WET	08-JUN-2006
187112-005		Treadwell & Rollo	Water	PHENOL/WET	08-JUN-2006
QC343202	BLANK		Water	PHENOL/WET	
QC343203	BS		Water	PHENOL/WET	
QC343204	BSD		Water	PHENOL/WET	

Analysis:	PHENOLIC COMPOUNDS	Analysis Date:	3/24/2005
Method:	EPA 420.1	Analyst:	DM
Instrument:	HP UV/Vis		
Wavelength:	510 nm		

Instrument Calibrated to report sample results in cc tration ug/L

Concentration:	0.200	
Units:	mg/L	
1	0.202	
2	0.200	
3	0.205	
4	0.203	
5	0.201	
6	0.189	
7	0.184	
8		
Average:	0.198	ug/L
Std Deviation:	0.0079522	
Student T:	2.998	

(Student-T value for 7 replicates = 3.143, for 8 replicates = 2.998)

MDL = Student T * StdDev:	**0.0238**	mg/L
Reporting Limit:	0.05	mg/L
Status:	PASS	

Curtis & Tompkins, Ltd.

Sulfide

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 376.2
Analyte:	Sulfide	Batch#:	114000
Matrix:	Water	Sampled:	05/25/06
Units:	mg/L	Received:	05/26/06
Diln Fac:	1.000	Analyzed:	06/01/06

Field ID	Type	Lab ID	Result	RL
1065MW9B	SAMPLE	187112-002	ND	0.04
DW052506A	SAMPLE	187112-013	ND	0.04
	BLANK	QC342255	ND	0.04

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Sulfide

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Analysis:	EPA 376.2
Project#:	2893.04.51		
Analyte:	Dissolved Sulfide	Batch#:	114000
Field ID:	WT052506	Sampled:	05/25/06
Matrix:	Water	Received:	05/26/06
Units:	mg/L	Analyzed:	06/01/06
Diln Fac:	1.000		

Type	Lab ID	Result	RL
SAMPLE	187112-005	ND	0.04
BLANK	QC342255	ND	0.04

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Sulfide

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Analysis:	EPA 376.2
Project#:	2893.04.51		
Analyte:	Dissolved Sulfide	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	114000
MSS Lab ID:	187117-004	Sampled:	05/26/06
Matrix:	Water	Received:	05/26/06
Units:	mg/L	Analyzed:	06/01/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC342256	<0.04000	0.2532	0.2983	118	42-123		
MSD	QC342257		0.2532	0.3048	120	42-123	2	20
LCS	QC342258		0.3798	0.3691	97	90-110		

RPD= Relative Percent Difference

Analysis: **SULFIDE**
Method: **EPA 376.2**
Instrument: HP UV-VIS Spectrometer
Wavelength: 626 nm
SOP#: sulfide_376_rv 4.doc

Matrix: Water
Batch: **114000**
Prep Date: **6/1/2006**
Analysis Date: **6/1/2006**
Analyst: DMc

INITIAL CALIBRATION DATA

Calibration Date: 11/15/05

Conc (mg/L)	Absorb	RF
0.0000	0.0001	
0.0233	0.0090	0.3863
0.0466	0.0156	0.3348
0.1862	0.0555	0.2981
0.3725	0.1650	0.4430
0.7450	0.3293	0.4420
1.3040	0.5687	0.4361
1.6760	0.7467	0.4455

Correlation Coefficient (r): 0.9994
Avg Rf: 0.3980
%RSD: 15.1

Note: Average Rf used to calculate sample results.

CONTINUING CALIBRATION DATA

	Absorb	Conc (mg/L)	True (mg/L)	Recovery	CV Limits
ICV	0.1469	0.3691	0.3798	97%	90 - 110%
ICB	0.0006	0.0015	0.0000		
CCV	0.1495	0.3757	0.3798	99%	90 - 110%
CCB	-0.0003	-0.0008	0.0000		
CCV	0.1471	0.3696	0.3798	97%	90 - 110%
CCB	-0.0008	-0.0020	0.0000		

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Analysis: **SULFIDE**
Method: **EPA 376.2**
Instrument: HP UV-VIS Spectrometer
Wavelength: 626 nm
Matrix: Water

Batch: **114000**
Prep Date: **6/1/2006**
Analysis Date: **6/1/2006**
Analyst: DMc

SAMPLE & BATCH QC DATA

Sample ID	Sample Vol (mL)	D.F.	Sample Absorb	Color Blk Absorb	**Report** mg/L	Reporting Limit (mg/L)	Vol Spike Added (mL)	Std Conc. (mg/L)	Spiked @ (mg/L)	**% Rec**	**% RPD**
MB	7.5000	1.0000	0.0006		**ND**	0.040					
LCS	7.5000	1.0000	0.1469		**0.36913**	0.040	1.0000	37.9840	0.3798	**97**	
187117-4	7.5000	1.0000	0.0114		**ND**	0.040					
187117-4MS	7.5000	1.0000	0.1187		**0.29827**	0.040	0.0500	37.9840	0.2532	**118**	
187117-4MS	7.5000	1.0000	0.1213		**0.30481**	0.040	0.0500	37.9840	0.2532	**120**	**2**
187075-1	7.5000	1.0000	0.0025		**ND**	0.040					
187075-3	7.5000	1.0000	0.0017		**ND**	0.040					
187075-4	7.5000	1.0000	0.0017		**ND**	0.040					
187075-5	7.5000	1.0000	0.0015		**ND**	0.040					
187075-6	7.5000	1.0000	0.0073		**ND**	0.040					
187075-8	7.5000	1.0000	0.0010		**ND**	0.040					
187112-2	7.5000	1.0000	0.0018		**ND**	0.040					
187112-13	7.5000	1.0000	0.0010		**ND**	0.040					
187112-5	7.5000	1.0000	0.0020		**ND**	0.040					
187117-1	7.5000	1.0000	0.0112		**ND**	0.040					

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	20	42 - 121

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Reviewed by/ Date: DMB 6/8/06

Date : ~~05-30~~ 6-1 -2006
Time : 08:24:10 6-1-06
Operator : Not Entered

---> Quantitation Results Report <---

ile Name : Data not stored yet

ample Name : sulfide
olvent Name : CAL11-15-05
onc Units : mg/L
il. Factor : 1.00

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

AMPLE #	Sample Name	Wavelength	Func. Res.	Concentration
1	icb/mb	Analytical	+0.0006	0.00138
2	icv/lcs	Analytical	+0.1469	0.33280
3	187075-1	Analytical	+0.0025	0.00574
4	187075-3	Analytical	+0.0017	0.00394
5	187075-4	Analytical	+0.0017	0.00377
6	187075-5	Analytical	+0.0015	0.00346
7	187075-6	Analytical	+0.0073	0.01649
8	187075-8	Analytical	+0.0010	0.00221
9	187112-2	Analytical	+0.0018	0.00418
10	187112-13	Analytical	+0.0010	0.00218
11	ccv	Analytical	+0.1495	0.33864
12	ccb	Analytical	-0.0003	0.00000
13	187112-5	Analytical	+0.0020	0.00446
14	187117-1	Analytical	+0.0112	0.02541
15	187117-4	Analytical	+0.0114	0.02586
16	187117-4ms	Analytical	+0.1187	0.26891
17	187117-4msd	Analytical	+0.1213	0.27478
18	ccv	Analytical	+0.1471	0.33338
19	ccb	Analytical	-0.0008	0.00000

---> **Standard Calibration Report** <---

Date : 05-30-2006
Time : 08:24:29
Operator : Not Entered

ile Name : C:\UV\DATA\ss1105.STD

ample Name : sulfide
olvent Name : CAL11-15-05
onc Units : mg/L

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds

nalytical Function Concentration = +2.266E+00 * Absorbance

STD #	Concentration	Absorbance	% Error
1	0.00000	0.0001	*****
2	0.37250	0.1650	-0.366 %
3	0.74500	0.3293	-0.135 %
4	1.30400	0.5687	+1.198 %
5	1.67600	0.7467	-0.933 %
6	0.02330	0.0090	+14.422 %
7	0.04660	0.0156	+31.758 %
8	0.18620	0.0555	+48.042 %

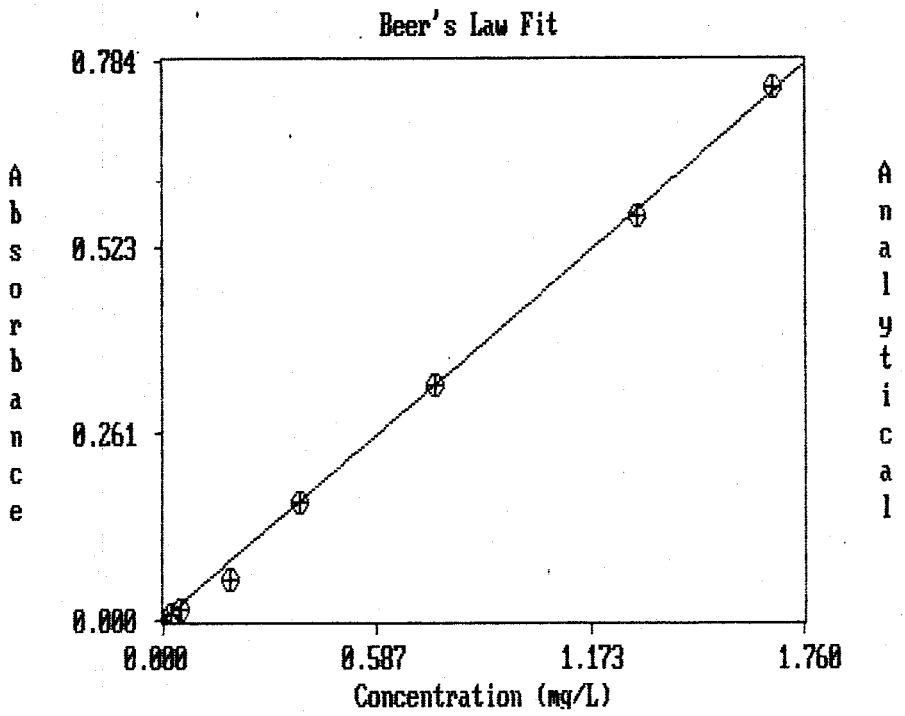
Date : 05-30-2006
Time : 08:24:31
Operator : Not Entered

---> **Standard Calibration Report** <---

ile Name : C:\UV\DATA\ss1105.STD

ample Name : sulfide
olvent Name : CAL11-15-05
onc Units : mg/L

Analytical Wavelength : 626 nm
Reference Wavelength : None Selected
Confirmation Wavelengths : None Selected
Integration Time : 1 seconds



80 TREADWELL 187112
PROJECT TETRTECH 187075 187117

Notebook No. BK2310
Continued From Page

Diss. Sulfide/Sulfide EPA 376.2

B ~~H3958~~ 6-1-06 [illegible]
114000

Sample	Vol (ml)	Final Vol (ml)	ABS
187075-1	7.5	7.5	.0025
-3			.0017
-4			.0017
-5			.0015
-6			.0073
-8			.0010
187112-2			.0018
-13			.0010
-5*			.0020
187117-1			.0112
-4			.0114
-4MS	+.05ml (37.984 mg/L from 0455292)		.1187
-4MSD	same as MS		.1213
ICB/MB			.0006
ICV/LCS	1ml 37.984 mg/L +100, use 7.5ml		.1469
CCV			.1495
CCB			-.0003
CCV			.1471
CCB			-.0008

TV = .3798 mg/L

* Filter thru NUHATHAN .45µ Filter lot 1039

S= std.
~4g 0455292 + 50ml DI water

1:25 = 37.984 mg/L
.05-7.5 = .2532 mg/L
1:100 = 0.3798 mg/L

1.0ml S=
50ml I .02316 N .11580
2.40ml Na_2O_2 .02352N -.05645
.05935 x 16000 / 1.0ml = 949.60 mg/L

Continued on Page

Read and Understood By

Signed: [illegible] Date: 6-1-06 Signed: [illegible] Date: 6/6/06

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 114000
Date Started: 01-JUN-2006
Batched by : Dennis McCanna

Analysis : DISS SULFIDE
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
187075-001			Tetra Tech EC, INC	Water	SULFIDE	07-JUN-2006
187075-003			Tetra Tech EC, INC	Water	SULFIDE	07-JUN-2006
187075-004			Tetra Tech EC, INC	Water	SULFIDE	07-JUN-2006
187075-005			Tetra Tech EC, INC	Water	SULFIDE	07-JUN-2006
187075-006			Tetra Tech EC, INC	Water	SULFIDE	07-JUN-2006
187075-008			Tetra Tech EC, INC	Water	SULFIDE	07-JUN-2006
187112-002			Treadwell & Rollo	Water	SULFIDE	08-JUN-2006
187112-005			Treadwell & Rollo	Water	DISS SULFIDE	08-JUN-2006
187112-013			Treadwell & Rollo	Water	SULFIDE	08-JUN-2006
187117-001			Tetra Tech EC, INC	Water	SULFIDE	08-JUN-2006
187117-004			Tetra Tech EC, INC	Water	SULFIDE	08-JUN-2006
QC342255	BLANK			Water	SULFIDE	
QC342256	MS	of 187117-004		Water	SULFIDE	
QC342257	MSD	of 187117-004		Water	SULFIDE	
QC342258	LCS			Water	SULFIDE	

Analysis:	Sulfide	Analysis Date:	4/14/2005
Method:	EPA 376.2	Analyst:	DM
Instrument:	HP UV/Vis		
Wavelength:	626 nm		

Instrument Calibrated to report sample results in concentration: mg/L

Concentration:	0.1098	
Units:	mg/L	
1	0.100	
2	0.104	
3	0.105	
4	0.096	
5	0.096	
6	0.095	
7	0.092	
Average:	0.098	ug/L
Std Deviation:	0.004691	
Student T:	3.143	

(Student-T value for 7 replicates = 3.143, for 8 replicates = 2.998)

MDL = Student T * StdDev:	**0.0147**	mg/L
Reporting Limit:	0.04	mg/L
Status:	PASS	>1/3 RL

Curtis & Tompkins, Ltd.

Total Dissolved Solids (TDS)

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Sampled:	05/25/06
Matrix:	Water	Received:	05/26/06
Units:	mg/L	Analyzed:	06/01/06
Batch#:	114037		

Field ID	Type	Lab ID	Result	RL	Diln Fac
1065MW9B	SAMPLE	187112-002	430	50	5.000
LF4GW103	SAMPLE	187112-003	2,640	50	5.000
LF4GW104	SAMPLE	187112-004	1,660	50	5.000
DW052506A	SAMPLE	187112-013	5,600	500	50.00
	BLANK	QC342432	ND	10	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Dissolved Solids (TDS)

Lab #:	187112	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Batch#:	114037
Field ID:	ZZZZZZZZZZ	Sampled:	05/31/06
MSS Lab ID:	187146-001	Received:	05/31/06
Matrix:	Water	Analyzed:	06/01/06
Units:	mg/L		

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim	Diln Fac
BS	QC342433		100.0	82.00		82	79-121			1.000
BSD	QC342434		100.0	84.00		84	79-121	2	20	1.000
SDUP	QC342435	10,960		10,940	100.0			0	20	10.00

RL= Reporting Limit
RPD= Relative Percent Difference

Analysis:	**Total Dissolved Solids**	Analysis Date:	**01-Jun-06**
Method:	EPA160.1 / SMWW 2540C	Batch #:	**114037**
Matrix:	Water	Analyst:	**RS**
SOP#:	tds_rv 9.doc		

BATCH QC DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)	Spike Std Conc (mg/L)	Spike Vol.Used (mL)	Spiking Level (mg/L)	**Recovery,%**	**RPD,%**
MB	50	1	55.7092	55.7062	-0.0030	ND	10					
BS	50	1	49.1512	49.1553	0.0041	82.0	10	1,000	5	100	**82**	
BSD	50	1	49.1800	49.1842	0.0042	84.0	10	1,000	5	100	**84**	**2.41**
187146-001	5	10	24.7306	24.7854	0.0548	10,960.0	100					
SDUP	5	10	26.3705	26.4252	0.0547	10,940.0	100					**0.18**

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	79 - 121
MS/ MSD	20	69 - 131

SAMPLE DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)
187112-002	10	5	50.6732	50.6775	0.0043	430	50
187112-003	10	5	50.6638	50.6902	0.0264	2,640	50
187112-004	10	5	45.9155	45.9321	0.0166	1,660	50
187112-013	1	50	45.1335	45.1391	0.0056	5,600	500
187119-005	10	5	49.6928	49.6948	0.0020	200	50
187119-006	10	5	49.0767	49.0795	0.0028	280	50
187127-001	10	5	29.2053	29.3192	0.1139	11,390	50
187127-002	10	5	24.3652	24.3713	0.0061	610	50
187127-003	10	5	29.3216	29.3463	0.0247	2,470	50
187137-001	10	5	25.7310	25.7316	0.0006	60	50
187166-004	10	5	26.6284	26.6302	0.0018	180	50
187166-005	10	5	25.1814	25.1831	0.0017	170	50

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Note: Because the regulatory holding time is based on the prep date, the analysis date referenced above is the prep date.

Reviewed by/ Date: TKM 6/9/06

TDS (Total Dissolved Solids)
EPA 160.1 / SMWW 2540C

Curtis & Tompkins, Ltd.

LIMS Batch #: 114037

Prep Date: 6-1-06
Prep Time: 18:25

Benchbook#: **BK2254**
Page: **30**

Filter Mfg/ Lot#: [illegible]
Spike WS#: 52182

Spike WS Conc (mg/L): 4000
Spike Vol Added (mL): 5

	In	Out	In-2	Out-2	In-3	Out-3	In-4	Out-4
Date:	6-1-06	6-5-06	6-6-06	6-6-06	6-6-06	6-6-06	6-1-06	6-7-06
Time:	19:25	12:30	9:40	12:00	14:00	15:00	12:30	13:20
Temp (C):	90°C	180°C	180°C	180°C	180°C	180°C	180°C	180°C

	Sample # / Letter	EC Value (µS/cm)	Sample Vol. Filtered (mL)	Dish ID	Dish Wt (g)	1st Dry Wt.(g)	2nd Dry Wt (g)*	3rd Dry Wt (g)*
1	MB		50	XXX	55.7092	55.7062	55.7060	
	BS			LLSB	49.1512	49.1548	49.1553	49.155
	BSD			XXZ	49.1800	49.1842	49.1840	
	187112-002F	707	10	5+	50.6732	50.6775	50.6788	50.677
5	-003B	4,000		Δ	50.6638	50.6902	50.6903	
	-004	2,060		MPS	45.9155	45.9310	45.9321	45.932
	-013	20,800	1	LS	45.1335	45.1393	45.1446	45.1391
	187119-005A	140	10	11	49.6928	49.6948	49.6950	
	-006	128		7	49.0767	49.0778	49.0795	49.079
10	187127-001J	1,700		RR	29.2053	29.3179	29.3192	29.3190
	-002	500		LKF	24.3652	24.3736	24.3713	24.3710
	-003	776		2CB	29.3216	29.3442	29.3463	29.346
	187137-001I	15		RK	25.7310	25.7316	25.7312	
	187146-001B	17,000	5	3KF	24.7306	24.7854	24.7850	
15	solid -001			RR*	26.3705	26.4293	26.4352	26.4254
	187166-004A	107	10	15	26.6284	26.6302	26.6300	
	-005	592		SMB	25.1814	25.1831	25.1826	
20								

RS 6/8/06

* Constant weight must be within 0.0005 from previous reading.

4th DW (gm)

187112-002	50.6778
187112-013	45.1395

RSCHFF 6/1/06
Analyst / Date

Ow 6-7-06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 114037
Date Started: 01-JUN-2006
Batched by : Radia Shiffa

Analysis : TDS
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
187112-002			Treadwell & Rollo	Water	TDS	08-JUN-2006
187112-003			Treadwell & Rollo	Water	TDS	08-JUN-2006
187112-004			Treadwell & Rollo	Water	TDS	08-JUN-2006
187112-013			Treadwell & Rollo	Water	TDS	08-JUN-2006
187119-005			U.S. Army Corps of	Water	TDS	08-JUN-2006
187119-006			U.S. Army Corps of	Water	TDS	08-JUN-2006
187127-001			New Logic Research	Water	TDS	09-JUN-2006
187127-002			New Logic Research	Water	TDS	09-JUN-2006
187127-003			New Logic Research	Water	TDS	09-JUN-2006
187137-001			Treadwell & Rollo	Water	TDS	09-JUN-2006
187146-001			Acme Fill Corp.	Water	TDS	12-JUN-2006
187166-004			U.S. Army Corps of	Water	TDS	13-JUN-2006
187166-005			U.S. Army Corps of	Water	TDS	13-JUN-2006
QC342432	BLANK			Water	TDS	
QC342433	BS			Water	TDS	
QC342434	BSD			Water	TDS	
QC342435	SDUP	of 187146-001		Water	TDS	

Cyanide

Calscience Environmental Laboratories, Inc.

June 07, 2006

Steve Stanley
Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Subject: **Calscience Work Order No.: 06-05-1818**
Client Reference: 187112

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 5/31/2006 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jason Torres
Project Manager

Calscience
Environmental
Laboratories, Inc.

Case Narrative for 06-05-1818

Sample Condition on Receipt

One aqueous sample was received as part of this Work Order on May 31, 2006. The sample was transferred to the laboratory in an ice-chest following strict chain-of-custody procedures. The temperature (5.1°C) of the sample was measured upon arrival in the laboratory and was within acceptable limits. The sample was logged into the Laboratory Information Management System (LIMS), given a laboratory identification number, and stored in refrigeration units pending analysis.

Tests Performed

Testing was performed in accordance to the chain-of-custody instructions. The following tests were performed on the sample as requested:

Total Cyanide by EPA 335.2

Data Summary

Holding Times

All holding time requirements were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

Blanks

The method blank data showed non-detectable levels for all constituents.

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX:(714) 894-7501

Calscience
Environmental
Laboratories, Inc.

Case Narrative for 06-05-1818

Laboratory Control Samples

The Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) analyses were performed at the required frequencies. All recoveries were within acceptable limits.

Calscience Environmental Laboratories, Inc.

Analytical Report

Curtis & Tompkins, Ltd.		Date Received:	05/31/06
2323 Fifth Street		Work Order No:	06-05-1818
Berkeley, CA 94710-2407		Preparation:	N/A
		Method:	EPA 335.2

Project: 187112

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
WT052506	**06-05-1818-1**	**05/25/06**	**Aqueous**	**05/31/06**	**05/31/06**	**60531CNL1**

Parameter	Result	RL	DF	Qual	Units
Cyanide, Total	ND	0.050	1		mg/L

Method Blank	**099-05-061-1,858**	**N/A**	**Aqueous**	**05/31/06**	**05/31/06**	**60531CNL1**

Parameter	Result	RL	DF	Qual	Units
Cyanide, Total	ND	0.050	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Date Received:	N/A
Work Order No:	06-05-1818
Preparation:	N/A
Method:	EPA 335.2

Project: 187112

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-061-1,858	Aqueous	UV 2	05/31/06	05/31/06	60531CNL1

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Cyanide, Total	96	96	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 06-05-1818

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900
(510) 486-0532

1818

LEVEL III

Project Number: 187112
Site: Presidio of San Francisco

Subcontract Laboratory:
Cal Science
7440 Lincoln Way
Garden Grove, CA 92641-1432
(714) 895-5494
ATTN: Jason Torres

Results due: Report Level: III

Please send report to: Steve Stanley
*** Please report using Sample ID rather than C&T Lab #.

Sample ID	Sampled	Matrix	Analysis	C&T Lab #	Comments
WT052506	05/25 16:20	Water	CYANIDE	187112-005	

Notes:	Relinquished By:	Received By:
Need TTIRPIMS format EDD.	[signature]	[signature]
	Date/Time: 5/30/06 1521	Date/Time: 5/31/06 0800

Provide Raw Data w/final report

Signature on this form constitutes a firm Purchase Order for the services requested above.

Page 1 of 1

1818

LIST FOR 187112 CYANIDE Water

List # : 27200 Effective : Printed: 05/26/06 15:46
Projectnum: 2893.04.51

#	CMPD	METHOD	P	RL	UNITS	BS low-hi	BS rpd	BS amt	MS low-hi	MS rpd	MS amt	J policy	FLAGS
1	Cyanide	EPA 335.2		.01	mg/L	75-125		.1	65-135	20	.1		

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 06 - 0 5 - 1 8 1 8

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: CSLT

DATE: 5/31/06

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.

_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
5.1 °C IR thermometer.
_____ Ambient temperature.

Initial: JP

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Applicable (N/A): ✓

Initial: JP

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC		✓	
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: JP

COMMENTS:

EPA 335.2 Total Cyanide

Curtis & Tompkins, Ltd.

CEL #06-05-1818

187112

Cyanide Sample Preparation Logbook

Calscience Environmental Laboratories, Inc.

Legend
Matrix: S - Soil/Solid W - Liquid/Aqueous O - Other (specify in comments)
Method: (a) EPA 9010A (b) EPA 335.2 (c) Other (specify in comments)

Date	Sample ID	Matrix/Method (see legend for reference)	Sample Preparation Initial V(ml)/W(g)	Final V(ml)	Dilution Factor	Distillation Time Reflux Mins.	Cooling Mins.	Internal Standard Lot Number	Conc (ppm)	V (ml)	Cl2 (+)/(-)	S2- (+)/(-)	pH>12	Who	Comments
05/30/06	MB	S (W) O (a) (b) (c)	100	50	1	60	15							DL	Total Cyanide
	LCS	S W O (a) (b) (c)						G053006B					pH>12		
	LCSD	S W O (a) (b) (c)						G053006B	10	2					
	06-05-1665-2B	S W O (a) (b) (c)						B	10	2	—	—			
		S W O (a) (b) (c)						DL 05/30/06							
		S W O (a) (b) (c)													
05/31/06	MB	S (W) O (a) (b) (c)	100	50	1	60	15							DL	Total Cyanide
	LCS	S W O (a) (b) (c)						G053106B	10	2			pH>12		
	LCSD	S W O (a) (b) (c)						C	10	2					
	06-05-1695-1D	S W O (a) (b) (c)									—	—			
	-1654-1B	S W O (a) (b) (c)									—	—			
	-2B	S W O (a) (b) (c)									—	—			
	-3B	S W O (a) (b) (c)									—	—			
	-4B	S W O (a) (b) (c)									—	—			
	-1687-1J	S W O (a) (b) (c)									—	—			
	-2J	S W O (a) (b) (c)									—	—			
	-3J	S W O (a) (b) (c)									—	—			
	-1660-1A	S W O (a) (b) (c)									—	—			
	-2A	S W O (a) (b) (c)									—	—			
	-1818-1A	S W O (a) (b) (c)									—	—			
	-1819-1A	S W O (a) (b) (c)									—	—			
	-1827-1A	S W O (a) (b) (c)									—	—			

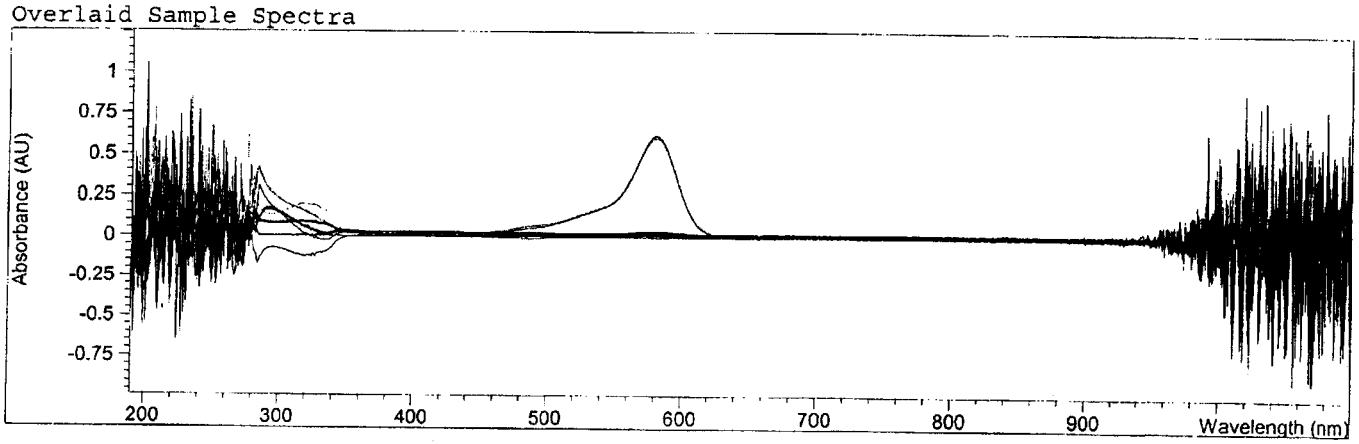
551

Quantification Report Date 6/1/2006 Time 10:41:27 Page 1 of 1

Method file : CN50706.M Last update: Date 5/8/2006 Time 6:36:48 PM
Information : Default Method

Data File : C:\HPCHEM\1\DATA\CN05316A.SD Created : 5/31/06 10:51:05

Overlaid Sample Spectra



Analyte name : CN
Calibration equation: Conc. = 0.31266 ppm * Abs

Calibrated at : Date 5/8/2006 Time 6:36:48 PM Operator: DL

#	Name	Dilut. Factor	CN(ppm)	Abs<578nm>
1	MB	1.00000	2.9465E-3	9.4237E-3
2	CCV	1.00000	0.18699	0.59805
3	LCS	1.00000	0.19157	0.61269
4	LCSD 1695 DL 06/01/06	1.00000	0.19272	0.61637
5	06-05-~~1659~~-1D	1.00000	4.0997E-3	1.3112E-2
6	06-05-1654-1B	1.00000	5.0070E-3	1.6014E-2
7	-2B	1.00000	5.5730E-3	1.7824E-2
8	-3B	1.00000	3.8055E-3	1.2171E-2
9	-4B	1.00000	4.4483E-3	1.4227E-2
10	06-05-1687-1J	1.00000	5.8648E-3	1.8757E-2
11	-2J	1.00000	7.3571E-3	2.3530E-2
12	-3J	1.00000	5.9460E-3	1.9017E-2
13	06-05-1660-1A	1.00000	5.6411E-3	1.8042E-2
14	-2A	1.00000	6.6254E-3	2.1190E-2
15	06-05-1818-1A	1.00000	4.6450E-3	1.4856E-2
16	06-05-1819-1A	1.00000	8.1727E-3	2.6139E-2
17	06-05-1827-1A	1.00000	1.1168E-2	3.5720E-2
18	CCB	1.00000	-4.7918E-4	-1.5326E-3
19	CCV	1.00000	0.19016	0.60819

Report generated by : DL Signature: .....

*** End Quantification Report ***

Quantification Method Date 6/1/2006 Time 11:00:00 Page 1 of 2

Method file : CN50706.M Last update: Date 5/8/2006 Time 6:36:48 PM
Information : Default Method
Operator : SSG
Product : UV-Visible ChemStation

Prompt for sample information : on

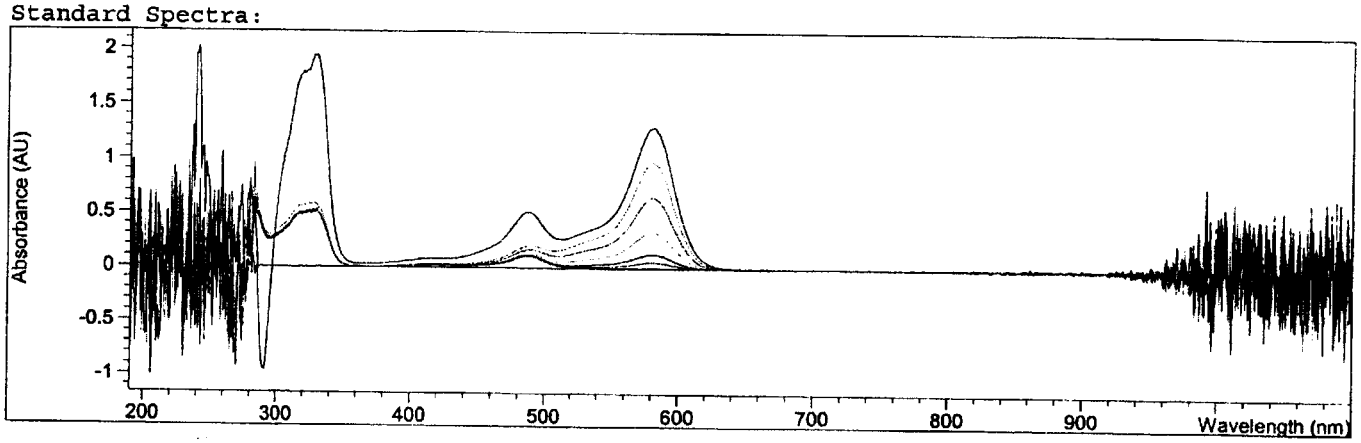
Prompt for standard information: on

Spectrophotometer
- Instrument : 8453
- Acquisition range : 190 to 1100 nm
- Interval : 1 nm
- Integration Time : 0.5 s
- Std. Deviation : On

Data Analysis
- Data Type : Absorbance
- Display spectrum : whole acquisition range
- Used Wavelength : 578 nm
- Background correction : none

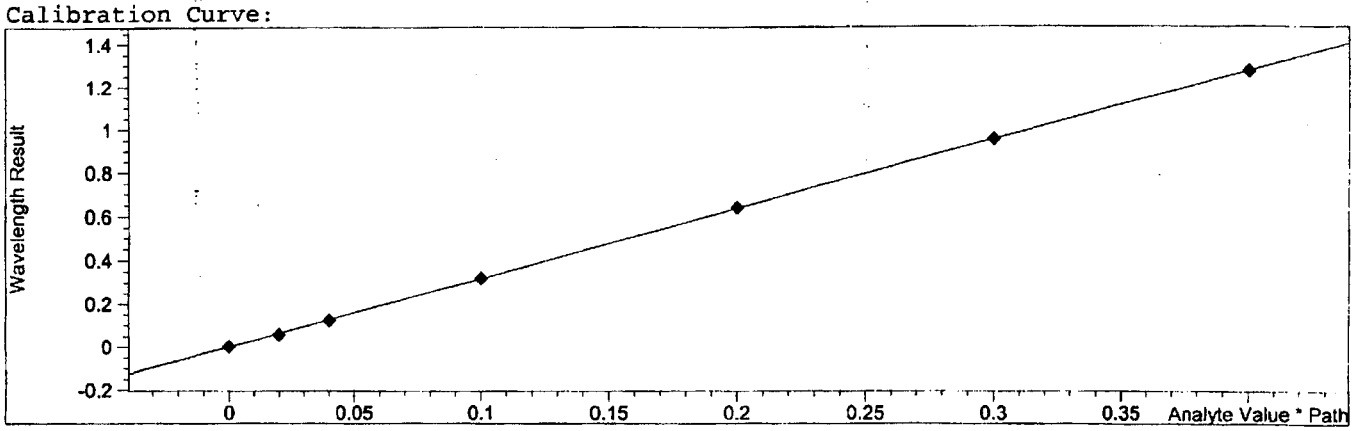
Analyte name : CN
Concentration unit : ppm
Calibration Curve : Linear (Beer's law)

Standard Spectra:



Quantification Method Date 6/1/2006 Time 11:00:00 Page 2 of 2

Calibration Curve:



Correlation coefficient: 0.99997
Calibration equation : Conc. = 0.31266 ppm * Abs

#	Standard Name	CN(ppm)	Abs<578nm>	%Error
1		0.00000	1.3185E-3	-100.00
2		2.0000E-2	5.7055E-2	12.11
3		4.0000E-2	0.12461	2.67
4		0.10000	0.32213	-0.71
5		0.20000	0.64329	-0.56
6		0.30000	0.95958	-0.01
7		0.40000	1.27750	0.14

Calibrated at: Date 5/8/2006 Time 6:36:48 PM Operator: SSG ~~DL~~

*** End Quantification Method ***

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 187137

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.04.51
Location: Presidio

Sample ID	Lab ID
DW053006B	187137-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 6/21/06
Operations Manager

Signature: _____ Date: 6/20/06
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**187137**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**05/30/06**
Samples Received:	**05/30/06**

This hardcopy data package contains sample and QC results for one water sample, requested for the above referenced project on 05/30/06. The sample was received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

Pesticides (EPA 8081A):
High response was observed for methoxychlor in the ICV analyzed 06/05/06 20:45; average ICV drift met method requirements, and this analyte was not detected at or above the RL in the associated samples. No other analytical problems were encountered.

Polynuclear Aromatics by HPLC (EPA 8310):
No analytical problems were encountered.

Metals (EPA 6010B, EPA 6020, and EPA 7470A):
Low recoveries were observed for aluminum in the MS/MSD of 1065MW9B (lab # 187112-002); the BS/BSD were within limits. High RPD was also observed for aluminum; the RPD was acceptable in the BS/BSD, and this analyte was not detected at or above the RL in the associated sample. No other analytical problems were encountered.

Ion Chromatography (EPA 300.0):
No analytical problems were encountered.

Alkalinity (EPA 310.1):
No analytical problems were encountered.

Total Dissolved Solids (TDS) (EPA 160.1):
No analytical problems were encountered.

Chain of Custody

Treadwell&Rollo
Environmental and Geotechnical Consultants
555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

187137

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2177
Page: ___ of ___

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): Shawn lane / BTS / Soochon Sung
Recorder (signature required):
Sent to Laboratory (Name): CET

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260)	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	MTBE	COMMENTS / NOTES
-1 DW053006B	5/30/06	1350			X		X		X	X	X	X	X	X	X	X	X	X		X	X	X	
							~~6~~		~~2~~	~~1~~	~~11~~												
							6		1		7												
4												•			•								

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (**Other -**)

RELINQUISHED BY:		DATE: 5/30/06	RECEIVED BY:			DATE: 5/30/06
PRINT NAME: S. Lane	FIRM: BTS	TIME: 1425	PRINT NAME: Sucheon Sung	FIRM: BTS		TIME: 1430
RELINQUISHED BY:		DATE: 5/31/06	RECEIVED BY:			DATE: 5/31/06
PRINT NAME: KEN SHIH	FIRM:	TIME: 1307	PRINT NAME: Rick Grans	FIRM: CET		TIME: 1307

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

White Copy - Original **Yellow Copy** - Laboratory **Pink Copy** - Field

intact cold RC

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 187137 Date Received: 5/30/06 Number of Coolers: 1
Client: Treadwell Project: Presidio

A. Preliminary Examination Phase
Date Opened: 5/30/06 By (print): John P. (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: wet Temperature: on ice - No temp Ø

B. Login Phase
Date Logged In: 5/30/06 By (print): John P. (sign) [signature]

1. Describe type of packing in cooler: zip loc bags
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

TOTAL VOLATILE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	DW053006B	Batch#:	113900
Matrix:	Water	Sampled:	05/30/06
Units:	ug/L	Received:	05/30/06
Diln Fac:	1.000		

Type: SAMPLE Analyzed: 05/31/06
Lab ID: 187137-001

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	94	65-135
Bromofluorobenzene (FID)	101	65-135

Type: BLANK Analyzed: 05/30/06
Lab ID: QC341871

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	94	65-135
Bromofluorobenzene (FID)	99	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC341873	Batch#:	113900
Matrix:	Water	Analyzed:	05/30/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	2,301	115	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	115	65-135
Bromofluorobenzene (FID)	114	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	DW053006B	Batch#:	113900
MSS Lab ID:	187137-001	Sampled:	05/30/06
Matrix:	Water	Received:	05/30/06
Units:	ug/L	Analyzed:	05/31/06
Diln Fac:	1.000		

Type: MS Lab ID: QC342032

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	15.85	2,000	2,301	114	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	135	65-135
Bromofluorobenzene (FID)	110	65-135

Type: MSD Lab ID: QC342033

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,201	109	65-135	4	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	135	65-135
Bromofluorobenzene (FID)	111	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187137 GCVOA Water: EPA 8015B

Inst : GC05
Calnum : 316199245001
Units : ng

Name : GAS
Date : 18-MAY-2006 16:47
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	138_006	316199245006	tvh 1	18-MAY-2006 16:47	S3460 (1000X), S3248 (5000X)
L2	138_007	316199245007	tvh 2	18-MAY-2006 17:19	S3459 (1000X), S3248 (5000X)
L3	138_008	316199245008	tvh 3	18-MAY-2006 17:51	S3458 (1000X), S3248 (5000X)
L4	138_009	316199245009	tvh 4	18-MAY-2006 18:23	S3457 (2000X), S3248 (5000X)
L5	138_010	316199245010	tvh 5	18-MAY-2006 18:55	S3457 (1000X), S3248 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C7-C12	G	1168.4	1143.2	1104.8	1017.7	1031.8	AVRG		9.15E-4		1093.2	6	0.995	20	

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Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

316199245001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 187137 GCVOA Water
EPA 8015B

Inst : GC05 Name : GAS
Calnum : 316199245001 Cal Date: 18-MAY-2006

ICV 316199245014 (138_014 18-MAY-2006) stds: S3323 (1000X), S3248 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C7-C12	G	1093.2	1144.6	10000	10470	ng	5	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187137 GCVOA Water: EPA 8015B / EPA 8021B

Inst : GC05
Calnum : 316186669002
Units : ng

Name : TFT/BFB
Date : 10-MAY-2006 11:15
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	129_015	316186669015	tft/bfb 1	10-MAY-2006 11:15	S3289 (5000X)
L2	129_016	316186669016	tft/bfb 2	10-MAY-2006 12:11	S3290 (5000X)
L3	129_017	316186669017	tft/bfb 3	10-MAY-2006 13:12	S3291 (5000X)
L4	129_018	316186669018	tft/bfb 4	10-MAY-2006 13:45	S3292 (5000X)
L5	129_019	316186669019	tft/bfb 5	10-MAY-2006 14:45	S3293 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	G	1190.1	1148.7	1073.7	1108.4	1076.2	AVRG		8.93E-4		1119.4	4	0.995	20	
Bromofluorobenzene (FID)	G	675.74	683.93	657.19	699.14	688.87	AVRG		0.00147		680.98	2	0.995	20	

12

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

316186669002

CONTINUING CALIBRATION SUMMARY FOR 187137 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Gasoline C7-C12

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	G	316216498003	30-MAY-2006 09:21	316199245001	18-MAY-2006	1093.2	1257.9	10000	11507	ng	15	15	
GC05	G	316216498015	30-MAY-2006 19:22	316199245001	18-MAY-2006	1093.2	1227.5	15000	16843	ng	12	15	
GC05	G	316216498016	30-MAY-2006 19:55	316199245001	18-MAY-2006	1093.2	1218.9	15000	16725	ng	11	15	
GC05	G	316216498031	31-MAY-2006 05:10	316199245001	18-MAY-2006	1093.2	1228.3	10000.0	11236	ng	12	15	
GC05	G	316216498032	31-MAY-2006 05:42	316199245001	18-MAY-2006	1093.2	1222.8	10000.0	11186	ng	12	15	
GC05	G	316216498038	31-MAY-2006 08:53	316199245001	18-MAY-2006	1093.2	1237.4	5000.0	5659.6	ng	13	15	

CONTINUING CALIBRATION SUMMARY FOR 187137 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Trifluorotoluene (FID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	G	316216498002	30-MAY-2006 08:49	316186669002	10-MAY-2006	1119.4	1030.3	450.00	414.19	ng	-8	15	
GC05	G	316216498003	30-MAY-2006 09:21	316186669002	10-MAY-2006	1119.4	1289.9	450.00	518.51	ng	15	15	
GC05	G	316216498013	30-MAY-2006 18:18	316186669002	10-MAY-2006	1119.4	1042.2	450.00	418.95	ng	-7	15	
GC05	G	316216498029	31-MAY-2006 04:06	316186669002	10-MAY-2006	1119.4	1086.9	450.00	436.93	ng	-3	15	
GC05	G	316216498038	31-MAY-2006 08:53	316186669002	10-MAY-2006	1119.4	1270.0	450.00	510.53	ng	13	15	

CONTINUING CALIBRATION SUMMARY FOR 187137 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Bromofluorobenzene (FID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC05	G	316216498002	30-MAY-2006 08:49	316186669002	10-MAY-2006	680.98	646.80	450.00	427.42	ng	-5	15	
GC05	G	316216498003	30-MAY-2006 09:21	316186669002	10-MAY-2006	680.98	777.17	450.00	513.57	ng	14	15	
GC05	G	316216498013	30-MAY-2006 18:18	316186669002	10-MAY-2006	680.98	670.85	450.00	443.31	ng	-1	15	
GC05	G	316216498029	31-MAY-2006 04:06	316186669002	10-MAY-2006	680.98	697.50	450.00	460.92	ng	2	15	
GC05	G	316216498038	31-MAY-2006 08:53	316186669002	10-MAY-2006	680.98	692.40	450.00	457.55	ng	2	15	

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PROJECT GC 05 SEQUENCE LOG BOOK

Notebook No. BR 2266
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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316216498 Instrument: GC05
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #5 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv13

Begun: 30-MAY-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	150_001	X	ib			30-MAY-2006 08:18	1.0						1	
002	150_002	CCV/LCS	QC341872	113900	Water	30-MAY-2006 08:49	1.0			5000			2 1 PASS/USE	
003	150_003	CCV/LCS	QC341873	113900	Water	30-MAY-2006 09:21	1.0		2	5000			3 1	
004	150_004	CCV	avgas	113900		30-MAY-2006 09:53	1.0			5000			4 1	1:BZME=3035.81
005	150_005	BLANK	QC341871	113900	Water	30-MAY-2006 10:25	1.0	2		5000			1 <1/2 RL	
006	150_006	SAMPLE	187117-001	113900	Water	30-MAY-2006 14:33	1.0			5000	A	1.3	1	
007	150_007	SAMPLE	187117-004	113900	Water	30-MAY-2006 15:05	10.0		1	5000			1	
008	150_008	SAMPLE	187086-007	113900	Water	30-MAY-2006 15:38	1.0			5000			1	
009	150_009	SAMPLE	187086-008	113900	Water	30-MAY-2006 16:10	1.0			5000			1	
010	150_010	SAMPLE	187086-009	113900	Water	30-MAY-2006 16:42	1.0			5000			1	
011	150_011	SAMPLE	187126-001	113900	Water	30-MAY-2006 17:14	1.0			5000	B		1	
012	150_012	SAMPLE	187126-002	113900	Water	30-MAY-2006 17:46	1.0			5000			1	
013	150_013	CCV	btxe	113900		30-MAY-2006 18:18	1.0			5000			2 1 PASS/USE	
014	150_014	CCV	btxe	113900		30-MAY-2006 18:50	1.0			5000			2 1	
015	150_015	CCV	tvh	113900		30-MAY-2006 19:22	1.0			5000			3 1	
016	150_016	CCV	tvh	113900		30-MAY-2006 19:55	1.0			5000			3 1	
017	150_017	CCV	avgas	113900		30-MAY-2006 20:27	1.0			5000			4 1	1:BZME=2778.10
018	150_018	CCV	avgas	113900		30-MAY-2006 20:59	1.0			5000			4 1	1:BZME=2775.63
019	150_019	SAMPLE	187138-001	113900	Water	30-MAY-2006 22:44	1.0		1	5000	A	1.3	1	
020	150_020	SAMPLE	187138-002	113900	Water	30-MAY-2006 23:16	1.0		1	5000			1	
021	150_021	SAMPLE	187138-004	113900	Water	30-MAY-2006 23:49	1.0		1	5000			1	
022	150_022	SAMPLE	187138-006	113900	Water	31-MAY-2006 00:21	1.0		1	5000			1	
023	150_023	MSS	187137-001	113900	Water	31-MAY-2006 00:53	1.0	2		5000			1	
024	150_024	SAMPLE	187126-003	113900	Water	31-MAY-2006 01:25	10.0			5000	B		1	6:BZME=4112.59
025	150_025	SAMPLE	187104-002	113900	Water	31-MAY-2006 01:58	1.0			5000		10	1	
026	150_026	SAMPLE	187104-003	113900	Water	31-MAY-2006 02:30	1.0			5000			1	
027	150_027	SAMPLE	187104-004	113900	Water	31-MAY-2006 03:02	1.0			5000			1	
028	150_028	SAMPLE	187045-001	113900	Water	31-MAY-2006 03:34	10.0			5000	C	1.3	1	
029	150_029	CCV	btxe	113900		31-MAY-2006 04:06	1.0			5000			2 1 PASS/USE	
030	150_030	CCV	btxe	113900		31-MAY-2006 04:38	1.0			5000			2 1	

Stds used: 1=S3248 2=S3406 3=S3282 4=S2778

Analyst: TJP Date: 5/31/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316216498 Instrument: GC05
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #5 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv13

Begun: 30-MAY-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
031	150_031	CCV	tvh	113900		31-MAY-2006 05:10	1.0			5000			3 1 PASS/USE	
032	150_032	CCV	tvh	113900		31-MAY-2006 05:42	1.0			5000			3 1	
033	150_033	CCV	avgas	113900		31-MAY-2006 06:14	1.0			5000			4 1	1:BZME=2722.30
034	150_034	CCV	avgas	113900		31-MAY-2006 06:46	1.0			5000			4 1	1:BZME=2821.01
035	150_035	SAMPLE	187045-002	113900	Water	31-MAY-2006 07:18	10.0			5000	C	1.3	1	3:XYLMP=4957.85
036	150_036	MS	QC342032	113900	Water	31-MAY-2006 07:50	1.0		1	5000	A		3 1 PASS/USE	
037	150_037	MSD	QC342033	113900	Water	31-MAY-2006 08:21	1.0		2	5000			3 1	
038	150_038	CCV	tvh	113900		31-MAY-2006 08:53	1.0			5000			3 1	
039	150_039	X	tvh	113900		31-MAY-2006 09:25	1.0		1	5000			3 1 NOT USED	

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Stds used: 1=S3248 2=S3406 3=S3282 4=S2778

Analyst: TJP Date: 5/31/06

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PROJECT GC 05 SEQUENCE LOG BOOK

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316186669 Instrument: GC05
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #5 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv13

Begun: 09-MAY-2006

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	129_001	X	ib			09-MAY-2006 15:09	1.0					1	
002	129_002	X	ib			09-MAY-2006 15:41	1.0					1	
003	129_003	ICAL	btxe 1			09-MAY-2006 16:13	1.0					2 1	PASS/USE
004	129_004	ICAL	mtbe 1			09-MAY-2006 16:46	1.0					3 1	
005	129_005	ICAL	btxe 2			09-MAY-2006 17:18	1.0					3 1	
006	129_006	ICAL	btxe 3			09-MAY-2006 17:50	1.0					3 1	
007	129_007	ICAL	btxe 4			09-MAY-2006 18:22	1.0					4 1	
008	129_008	ICAL	btxe 5			09-MAY-2006 18:54	1.0					4 1	
009	129_009	ICAL	btxe 6			09-MAY-2006 19:26	1.0					4 1	
010	129_010	ICAL	mtbe 7			09-MAY-2006 19:58	1.0					5 1	
011	129_011	X	ib			09-MAY-2006 20:30	1.0					1	
012	129_012	ICV	mbtxe			09-MAY-2006 21:02	1.0	1	5000			6 1	NOT USED
013	129_013	ICV	mbtxe			09-MAY-2006 21:34	1.0		5000			6 1	PASS/USE
014	129_014	X	ib			10-MAY-2006 10:43	1.0					1	
015	129_015	ICAL	tft/bfb 1			10-MAY-2006 11:15	1.0					7	PASS/USE
016	129_016	ICAL	tft/bfb 2			10-MAY-2006 12:11	1.0					8	
017	129_017	ICAL	tft/bfb 3			10-MAY-2006 13:12	1.0					9	
018	129_018	ICAL	tft/bfb 4			10-MAY-2006 13:45	1.0					10	
019	129_019	ICAL	tft/bfb 5			10-MAY-2006 14:45	1.0					11	

Stds used: 1=S3248 2=S2850 3=S2849 4=S2848 5=S2847 6=S3079 7=S3289 8=S3290 9=S3291 10=S3292 11=S3293

Analyst: TJP Date: 5/11/06

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Dulcie D. Perez 5/11/06

Signed Dulcie D. Perez Date 5/11/06

Read and Understood By 17 Signed Date 05/11/06

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PROJECT GC05 Sequence Log Book

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 316199245 Instrument: GC05 Gas Chromatograph #5 TVH/BTXE Begun: 18-MAY-2006
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv13

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	138_001	X	ib			18-MAY-2006 08:45	1.0					1	
002	138_002	X	QC340572	113573	Water	18-MAY-2006 09:17	1.0					2 1 Not used	
003	138_003	X	QC340573	113573	Water	18-MAY-2006 09:49	1.0					3 1	
004	138_004	X	QC340571	113573	Water	18-MAY-2006 10:21	1.0					1	
005	138_005	X	ib			18-MAY-2006 16:15	1.0					1	
006	138_006	ICAL	tvh 1			18-MAY-2006 16:47	1.0					4 1 PASS/USE	
007	138_007	ICAL	tvh 2			18-MAY-2006 17:19	1.0					5 1	
008	138_008	ICAL	tvh 3			18-MAY-2006 17:51	1.0					6 1	
009	138_009	ICAL	tvh 4			18-MAY-2006 18:23	1.0					7 1	
010	138_010	ICAL	tvh 5			18-MAY-2006 18:55	1.0					7 1	
011	138_011	X	ib			18-MAY-2006 19:27	1.0					1	
012	138_012	X	carbmark			18-MAY-2006 19:58	1.0					8 9 1 USE	
013	138_013	X	ib			18-MAY-2006 20:30	1.0					1	
014	138_014	ICV	tvh			18-MAY-2006 21:02	1.0		5000			3 1 PASS/USE	

Stds used: 1=S3248 2=S3406 3=S3323 4=S3460 5=S3459 6=S3458 7=S3457 8=S1645 9=S1646

Analyst: [signature] Date: 05/22/06

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Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187137 TVH Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	GAS:	STOD	F3BZ	BR4F	
187137-001	GC05	05/31/06 00:53	1.0	+		+	+	
QC341871	GC05	05/30/06 10:25	1.0	+		+	+	
QC341872	GC05	05/30/06 08:49	1.0					
QC341873	GC05	05/30/06 09:21	1.0	+		+	+	
QC342032	GC05	05/31/06 07:50	1.0	+		+	+	
QC342033	GC05	05/31/06 08:21	1.0	+		+	+	

GC #05

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 113900
Date Started: 30-MAY-2006
Batched by : Thelma Perez

Analysis : N/A
Bgroup : TVH
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
187045-001			Shaw E&I	Water	TVH	06-JUN-2006
187045-002			Shaw E&I	Water	TVH	06-JUN-2006
187086-007			Acton Mickelson En	Water	TVH	07-JUN-2006
187086-008			Acton Mickelson En	Water	TVH	07-JUN-2006
187086-009			Acton Mickelson En	Water	TVH	07-JUN-2006
187104-002			Weston Solutions	Water	TVH	08-JUN-2006
187104-003			Weston Solutions	Water	TVH	08-JUN-2006
187104-004			Weston Solutions	Water	TVH	08-JUN-2006
187117-001			Tetra Tech EC, INC	Water	BTXE, TVH	08-JUN-2006
187117-004			Tetra Tech EC, INC	Water	BTXE, TVH	08-JUN-2006
187126-001			OTG Enviroengineer	Water	TVH	01-JUN-2006
187126-002			OTG Enviroengineer	Water	TVH	01-JUN-2006
187126-003			OTG Enviroengineer	Water	TVH	01-JUN-2006
187137-001			Treadwell & Rollo	Water	TVH	09-JUN-2006
187138-001			Tetra Tech EC, INC	Water	BTXE, TVH	09-JUN-2006
187138-002			Tetra Tech EC, INC	Water	BTXE, TVH	09-JUN-2006
187138-004			Tetra Tech EC, INC	Water	BTXE, TVH	09-JUN-2006
187138-006			Tetra Tech EC, INC	Water	BTXE, TVH	09-JUN-2006
QC341871	BLANK			Water		
QC341872	LCS			Water		
QC341873	LCS			Water		
QC342032	MS	of 187137-001		Water		
QC342033	MSD	of 187137-001		Water		

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water
As of 06/20/06

Analyte	Units	GC04 A	GC04 J	GC05 G	GC07 A	GC19 X
Gasoline C6-C10	ug/L	6.7	6.2	4.8	10	21
Gasoline C6-C12	ug/L	5.5	6.8	4.5	14	21
Gasoline C7-C12	ug/L	4.8	7.2	4.2	15	27
JP-4 C7-C12	ug/L		12	9.9	19	4.6
Gasoline C6-C8	ug/L				7.0	
Gasoline C8-C10	ug/L				12	
Trifluorotoluene (FID)	ug/L	3.9			9.8	
Bromofluorobenzene (FID)	ug/L	5.2			7.5	

TOTAL EXTRACTABLE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	DW053006B	Batch#:	114176
Matrix:	Water	Sampled:	05/30/06
Units:	ug/L	Received:	05/30/06
Diln Fac:	1.000	Prepared:	06/06/06

Type:	SAMPLE	Analyzed:	06/09/06
Lab ID:	187137-001	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	100	65-135

Type:	BLANK	Analyzed:	06/08/06
Lab ID:	QC342998	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	93	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	114176
Units:	ug/L	Prepared:	06/06/06
Diln Fac:	1.000	Analyzed:	06/08/06

Type: BS Cleanup Method: EPA 3630C
Lab ID: QC342999

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	2,500	2,183	87	65-135

Surrogate	%REC	Limits
Hexacosane	95	65-135

Type: BSD Cleanup Method: EPA 3630C
Lab ID: QC343000

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,223	89	65-135	2	35

Surrogate	%REC	Limits
Hexacosane	96	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187137 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 116196127001
Units : mg/L

Name : gc11dlscal5/17/06
Date : 16-MAY-2006 18:31
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	136a011	116196127011	dsl_10	16-MAY-2006 18:31	S3433
L2	136a012	116196127012	dsl_100	16-MAY-2006 18:59	S3434
L3	136a013	116196127013	dsl_250	16-MAY-2006 19:26	S3435
L4	136a014	116196127014	dsl_500	16-MAY-2006 19:54	S3436
L5	136a015	116196127015	dsl_1000	16-MAY-2006 20:22	S3437
L6	136a016	116196127016	dsl_2500	16-MAY-2006 20:50	S3438
L7	136a017	116196127017	dsl_5000	16-MAY-2006 21:17	S3432

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	84938	63195	60889	59402	60415	59580	59197	AVRG		1.56E-5		63945	15	0.995	20	

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Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

116196127001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 187137 GCSV Water
EPA 8015B

Inst : GC11A
Calnum : 116196127001

Name : gc11dlscal5/17/06
Cal Date: 16-MAY-2006

ICV 116196127019 (136a019 16-MAY-2006) stds: S2708

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	63945	56486	500.0	441.7	mg/L	-12	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187137 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 116207810001
Units : mg/L

Name : MO_6-pts
Date : 24-MAY-2006 16:05
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	144a014	116207810014	mo_50	24-MAY-2006 16:05	S3326
L2	144a015	116207810015	mo_250	24-MAY-2006 16:33	S3327
L3	144a016	116207810016	mo_500	24-MAY-2006 17:01	S3328
L4	144a017	116207810017	mo_1000	24-MAY-2006 17:29	S3329
L5	144a018	116207810018	mo_2500	24-MAY-2006 17:56	S3330
L6	144a019	116207810019	mo_5000	24-MAY-2006 18:25	S3325

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	36526	37244	37973	38389	40292	39863	AVRG		2.61E-5		38381	4	0.995	20	

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Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187137 GCSV Water: EPA 8015B

Inst : GC11A
Calnum : 116206579001
Units : mg/L

Name : hexacosane
Date : 23-MAY-2006 19:42
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	143a011	116206579011	hex_5	23-MAY-2006 19:42	S2694
L2	143a012	116206579012	hex_10	23-MAY-2006 20:09	S2695
L3	143a013	116206579013	hex_25	23-MAY-2006 20:37	S2696
L4	143a014	116206579014	hex_50	23-MAY-2006 21:05	S2697
L5	143a015	116206579015	hex_75	23-MAY-2006 21:33	S2698

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	64179	70269	66074	63186	64146	AVRG		1.53E-5		65571	4	0.995	20	

28

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187137 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166117087001
Units : mg/L

Date : 22-MAR-2006 12:39
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	081b006	166117087006	dsl_10	22-MAR-2006 12:39	S2961
L2	081b007	166117087007	dsl_100	22-MAR-2006 13:07	S2938
L3	081b008	166117087008	dsl_250	22-MAR-2006 13:34	S2939
L4	081b009	166117087009	dsl_500	22-MAR-2006 14:02	S2940
L5	081b010	166117087010	dsl_1000	22-MAR-2006 14:30	S2941
L6	081b011	166117087011	dsl_2500	22-MAR-2006 14:57	S2942
L7	081b012	166117087012	dsl_5000	22-MAR-2006 15:25	S2936

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C12-C24	60107	59785	55253	54313	53973	54874	53381	AVRG		1.79E-5		55955	5	0.995	20	

29

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 187137 GCSV Water
EPA 8015B

Inst : GC15B
Calnum : 166117087001 Cal Date: 22-MAR-2006

ICV 166117087014 (081b014 22-MAR-2006) stds: S2708

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C12-C24	55955	53766	500.0	480.4	mg/L	-4	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187137 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166219336001
Units : mg/L

Name : motor oil
Date : 01-JUN-2006 17:48
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	152b010	166219336010	mo_50	01-JUN-2006 17:48	S3326
L2	152b011	166219336011	mo_250	01-JUN-2006 18:15	S3327
L3	152b012	166219336012	mo_500	01-JUN-2006 18:43	S3328
L4	152b013	166219336013	mo_1000	01-JUN-2006 19:10	S3329
L5	152b014	166219336014	mo_2500	01-JUN-2006 19:38	S3330
L6	152b015	166219336015	mo_5000	01-JUN-2006 20:05	S3325

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	36587	41619	41827	41070	34092	29342	AVRG		2.67E-5		37423	13	0.995	20	

31

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

166219336001

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187137 GCSV Water: EPA 8015B

Inst : GC15B
Calnum : 166158996002
Units : mg/L

Name : gc15hexcal4/21/06
Date : 20-APR-2006 16:22
X Axis : R

Reviewer: CW

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	110b013	166158996013	hex_5	20-APR-2006 16:22	S2694
L2	110b014	166158996014	hex_10	20-APR-2006 16:50	S2695
L3	110b015	166158996015	hex_25	20-APR-2006 17:19	S2696
L4	110b016	166158996016	hex_50	20-APR-2006 17:47	S2697
L5	110b017	166158996017	hex_75	20-APR-2006 18:15	S2698

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	73445	71655	70423	70811	69635	AVRG		1.40E-5		71194	2	0.995	20	

32

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

166158996002

CONTINUING CALIBRATION SUMMARY FOR 187137 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116226958064	07-JUN-2006 22:00	116196127001	16-MAY-2006	63945	60143	1000.0	940.54	mg/L	-6	15	
GC11A	A	116226958080	08-JUN-2006 05:28	116196127001	16-MAY-2006	63945	62404	250.00	243.98	mg/L	-2	15	
GC11A	A	116230044003	08-JUN-2006 19:00	116196127001	16-MAY-2006	63945	60938	500.00	476.49	mg/L	-5	15	
GC11A	A	116230044016	09-JUN-2006 02:37	116196127001	16-MAY-2006	63945	60839	1000.0	951.43	mg/L	-5	15	
GC15B	B	166226541104	08-JUN-2006 07:57	166117087001	22-MAR-2006	55955	53611	1000.0	958.11	mg/L	-4	15	
GC15B	B	166226541118	08-JUN-2006 15:02	166117087001	22-MAR-2006	55955	55392	250.00	247.48	mg/L	-1	15	

CONTINUING CALIBRATION SUMMARY FOR 187137 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116230044004	08-JUN-2006 19:27	116207810001	24-MAY-2006	38381	37889	500.00	493.59	mg/L	-1	15	
GC11A	A	116230044017	09-JUN-2006 03:04	116207810001	24-MAY-2006	38381	38564	500.00	502.39	mg/L	0	15	
GC15B	B	166226541105	08-JUN-2006 08:25	166219336001	01-JUN-2006	37423	38132	500.00	509.47	mg/L	2	15	
GC15B	B	166226541119	08-JUN-2006 15:30	166219336001	01-JUN-2006	37423	39344	500.00	525.66	mg/L	5	15	

CONTINUING CALIBRATION SUMMARY FOR 187137 GCSV Water
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	116226958064	07-JUN-2006 22:00	116206579001	23-MAY-2006	65571	66934	50.000	51.040	mg/L	2	15	
GC11A	A	116226958080	08-JUN-2006 05:28	116206579001	23-MAY-2006	65571	68463	50.000	52.205	mg/L	4	15	
GC11A	A	116230044003	08-JUN-2006 19:00	116206579001	23-MAY-2006	65571	68730	50.000	52.409	mg/L	5	15	
GC11A	A	116230044016	09-JUN-2006 02:37	116206579001	23-MAY-2006	65571	67985	50.000	51.841	mg/L	4	15	
GC15B	B	166226541104	08-JUN-2006 07:57	166158996002	20-APR-2006	71194	67769	50.000	47.595	mg/L	-5	15	
GC15B	B	166226541118	08-JUN-2006 15:02	166158996002	20-APR-2006	71194	70280	50.000	49.358	mg/L	-1	15	

SEQUENCE SUMMARY FOR 187137 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166117087 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	081b001	X	primer			22-MAR-2006 07:27	1.0					
002	081b002	X	ib			22-MAR-2006 07:55	1.0					
003	081b003	CCV	dsl_500			22-MAR-2006 08:27	1.0	1.0	6	3	1	
004	081b004	CCV	mo_500			22-MAR-2006 08:55	1.0	1.0	2	3	2	
005	081b005	X	ib			22-MAR-2006 12:12	1.0					
006	081b006	ICAL	dsl_10			22-MAR-2006 12:39	1.0	1.0			3	
007	081b007	ICAL	dsl_100			22-MAR-2006 13:07	1.0	1.0			4	
008	081b008	ICAL	dsl_250			22-MAR-2006 13:34	1.0	1.0			5	
009	081b009	ICAL	dsl_500			22-MAR-2006 14:02	1.0	1.0			6	
010	081b010	ICAL	dsl_1000			22-MAR-2006 14:30	1.0	1.0			7	
011	081b011	ICAL	dsl_2500			22-MAR-2006 14:57	1.0	1.0			8	
012	081b012	ICAL	dsl_5000			22-MAR-2006 15:25	1.0	1.0			9	
013	081b013	X	ib			22-MAR-2006 15:53	1.0					
014	081b014	ICV	dsl_500			22-MAR-2006 16:21	1.0	1.0		3	10	
015	081b015	X	ib			22-MAR-2006 16:49	1.0					36
016	081b016	CCV	dsl_500			22-MAR-2006 17:17	1.0	1.0		3	1	
017	081b017	CCV	mo_500			22-MAR-2006 17:45	1.0	1.0	2	3	2	
018	081b018	CCV	ker_250			22-MAR-2006 18:43	1.0	1.0		3	11	
019	081b019	LCS	QC332247 S	111483	Soil	22-MAR-2006 19:18	1.0	0.09921		3		
020	081b020	BLANK	QC332246 S	111483	Soil	22-MAR-2006 19:45	1.0	0.1007	7	3		
021	081b021	MSS	185620-003 S	111483	Soil	22-MAR-2006 20:13	1.0	0.1001	9	3		
022	081b022	MS	QC332248 S	111483	Soil	22-MAR-2006 20:41	1.0	0.1006		3		
023	081b023	MSD	QC332249 S	111483	Soil	22-MAR-2006 21:09	1.0	0.1004		3		
024	081b024	X	ib			22-MAR-2006 21:37	1.0					
025	081b025	SAMPLE	185463-003 S	111513	Water	22-MAR-2006 22:05	1.0	0.005		3		
026	081b026	SAMPLE	185463-004 S	111513	Water	22-MAR-2006 22:33	1.0	0.005		3		
027	081b027	SAMPLE	185639-002	111483	Soil	22-MAR-2006 23:01	1.0	0.1002		3		
028	081b028	SAMPLE	185640-001	111483	Soil	22-MAR-2006 23:29	3.0	0.09974	3	3	19:BUNKC:=35667.6	
029	081b029	SAMPLE	185640-002	111483	Soil	22-MAR-2006 23:57	20.0	0.2001	2	3	12:BUNKC:=30917.1	
030	081b030	X	ib			23-MAR-2006 00:24	1.0					
031	081b031	CCV	dsl_1000			23-MAR-2006 00:52	1.0	1.0		3	12	

Stds used: 1=S2871 2=S2971 3=S2961 4=S2938 5=S2939 6=S2940 7=S2941 8=S2942 9=S2936 10=S2708 11=S2806 12=S2885

SEQUENCE SUMMARY FOR 187137 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166117087 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 22-MAR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	081b032	CCV	mo_500			23-MAR-2006 01:20	1.0	1.0	2		3	2	
033	081b033	X	ccv			23-MAR-2006 01:48	1.0					12	
034	081b034	CCV	ker_250			23-MAR-2006 02:16	1.0	1.0			3	11	

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Stds used: 1=S2871 2=S2971 3=S2961 4=S2938 5=S2939 6=S2940 7=S2941 8=S2942 9=S2936 10=S2708 11=S2806 12=S2885

SEQUENCE SUMMARY FOR 187137 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166158996 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 20-APR-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	110b001	X	primer			20-APR-2006 09:56	1.0							
002	110b002	X	ib			20-APR-2006 10:24	1.0							
003	110b003	CCV	dsl_500			20-APR-2006 10:53	1.0			3			1	
004	110b004	CCV	mo_500			20-APR-2006 11:21	1.0	2		3			2	
005	110b005	X	ib			20-APR-2006 11:55	1.0							
006	110b006	ICAL	mo_50			20-APR-2006 13:06	1.0						3	
007	110b007	ICAL	mo_250			20-APR-2006 13:34	1.0						4	
008	110b008	ICAL	mo_500			20-APR-2006 14:02	1.0						5	
009	110b009	ICAL	mo_1000			20-APR-2006 14:30	1.0						6	
010	110b010	ICAL	mo_2500			20-APR-2006 14:58	1.0						7	
011	110b011	ICAL	mo_5000			20-APR-2006 15:26	1.0						8	
012	110b012	X	ib			20-APR-2006 15:54	1.0							
013	110b013	ICAL	hex_5			20-APR-2006 16:22	1.0						9	
014	110b014	ICAL	hex_10			20-APR-2006 16:50	1.0						10	
015	110b015	ICAL	hex_25			20-APR-2006 17:19	1.0						11	38
016	110b016	ICAL	hex_50			20-APR-2006 17:47	1.0						12	
017	110b017	ICAL	hex_75			20-APR-2006 18:15	1.0						13	
018	110b018	X	ib			20-APR-2006 18:43	1.0							
019	110b019	CCV	dsl_500			20-APR-2006 19:11	1.0						1	
020	110b020	CCV	mo_500			20-APR-2006 19:39	1.0						2	

Stds used: 1=S3131 2=S3188 3=S2118 4=S2119 5=S2120 6=S2121 7=S2122 8=S2117 9=S2694 10=S2695 11=S2696 12=S2697 13=S2698

SEQUENCE SUMMARY FOR 187137 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116196127 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 16-MAY-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
001	136a001	X	primer			16-MAY-2006 04:47	1.0				
002	136a002	X	ib			16-MAY-2006 05:15	1.0				
003	136a003	CCV	mo_500			16-MAY-2006 05:43	1.0	1.0	3	1	
004	136a004	CCV	dsl_500			16-MAY-2006 06:10	1.0	1.0	3	2	
005	136a005	X	ccv			16-MAY-2006 06:38	1.0			2	
006	136a006	SAMPLE	186575-003 S	113251	Soil	16-MAY-2006 11:14	1.0	0.1007	3		
007	136a007	SAMPLE	186711-005	113445	Water	16-MAY-2006 11:42	1.0	0.005	3		
008	136a008	CCV	mo_500			16-MAY-2006 12:10	1.0	1.0	3	1	
009	136a009	CCV	dsl_1000			16-MAY-2006 12:38	1.0	1.0	3	3	
010	136a010	X	ib			16-MAY-2006 18:03	1.0				
011	136a011	ICAL	dsl_10			16-MAY-2006 18:31	1.0	1.0		4	
012	136a012	ICAL	dsl_100			16-MAY-2006 18:59	1.0	1.0		5	
013	136a013	ICAL	dsl_250			16-MAY-2006 19:26	1.0	1.0		6	
014	136a014	ICAL	dsl_500			16-MAY-2006 19:54	1.0	1.0		7	
015	136a015	ICAL	dsl_1000			16-MAY-2006 20:22	1.0	1.0		8	39
016	136a016	ICAL	dsl_2500			16-MAY-2006 20:50	1.0	1.0		9	
017	136a017	ICAL	dsl_5000			16-MAY-2006 21:17	1.0	1.0		10	
018	136a018	X	ib			16-MAY-2006 21:45	1.0				
019	136a019	ICV	dsl_500			16-MAY-2006 22:13	1.0	1.0	3	11	
020	136a020	X	ib			16-MAY-2006 22:41	1.0				
021	136a021	ICAL	jp5_10			16-MAY-2006 23:09	1.0	1.0		12	
022	136a022	ICAL	jp5_100			16-MAY-2006 23:37	1.0	1.0		13	
023	136a023	ICAL	jp5_500			17-MAY-2006 00:05	1.0	1.0		14	
024	136a024	ICAL	jp5_1500			17-MAY-2006 00:33	1.0	1.0		15	
025	136a025	ICAL	jp5_3000			17-MAY-2006 01:01	1.0	1.0		16	
026	136a026	X	jp5_5000			17-MAY-2006 01:29	1.0			17	
027	136a027	X	ib			17-MAY-2006 01:57	1.0				
028	136a028	X	ib			17-MAY-2006 02:25	1.0				
029	136a029	ICAL	jp8_10			17-MAY-2006 02:53	1.0	1.0		18	
030	136a030	ICAL	jp8_100			17-MAY-2006 03:20	1.0	1.0		19	

Stds used: 1=S3404 2=S3367 3=S3368 4=S3433 5=S3434 6=S3435 7=S3436 8=S3437 9=S3438 10=S3432 11=S2708 12=S2382 13=S2383 14=S2384 15=S2385 16=S2386 17=S2259 18=S3462 19=S3463 20=S3464 21=S3465 22=S3466 23=S3461

SEQUENCE SUMMARY FOR 187137 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116196127 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 16-MAY-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
031	136a031	ICAL	jp8_500			17-MAY-2006 03:48	1.0	1.0		20	
032	136a032	ICAL	jp8_1500			17-MAY-2006 04:17	1.0	1.0		21	
033	136a033	ICAL	jp8_3000			17-MAY-2006 04:45	1.0	1.0		22	
034	136a034	X	jp8_5000			17-MAY-2006 05:13	1.0			23	
035	136a035	X	ib			17-MAY-2006 05:40	1.0				

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Stds used: 1=S3404 2=S3367 3=S3368 4=S3433 5=S3434 6=S3435 7=S3436 8=S3437 9=S3438 10=S3432 11=S2708 12=S2382 13=S2383 14=S2384 15=S2385 16=S2386 17=S2259 18=S3462 19=S3463 20=S3464 21=S3465 22=S3466 23=S3461

SEQUENCE SUMMARY FOR 187137 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116206579 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 23-MAY-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	143a001	X	primer			23-MAY-2006 10:59	1.0							
002	143a002	X	ib			23-MAY-2006 11:34	1.0							
003	143a003	X	ib			23-MAY-2006 12:45	1.0							
004	143a004	X	ib			23-MAY-2006 13:21	1.0							
005	143a005	X	ib			23-MAY-2006 13:49	1.0							
006	143a006	X	ib			23-MAY-2006 14:17	1.0							
007	143a007	CCV	mo_500			23-MAY-2006 14:45	1.0			3			1	
008	143a008	CCV	dsl_500			23-MAY-2006 15:13	1.0			3			2	
009	143a009	X	ib			23-MAY-2006 18:46	1.0							
010	143a010	X	ib			23-MAY-2006 19:14	1.0							
011	143a011	ICAL	hex_5			23-MAY-2006 19:42	1.0						3	
012	143a012	ICAL	hex_10			23-MAY-2006 20:09	1.0						4	
013	143a013	ICAL	hex_25			23-MAY-2006 20:37	1.0						5	
014	143a014	ICAL	hex_50			23-MAY-2006 21:05	1.0						6	
015	143a015	ICAL	hex_75			23-MAY-2006 21:33	1.0						7	4
016	143a016	X	ib			23-MAY-2006 22:01	1.0							

Stds used: 1=S3404 2=S3367 3=S2694 4=S2695 5=S2696 6=S2697 7=S2698

SEQUENCE SUMMARY FOR 187137 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116207810 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 24-MAY-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	144a001	X	primer			24-MAY-2006 07:30	1.0						
002	144a002	X	ib			24-MAY-2006 08:33	1.0						
003	144a003	CCV	mo_500			24-MAY-2006 09:01	1.0	1.0	3		3	1	
004	144a004	CCV	dsl_500			24-MAY-2006 09:29	1.0	1.0			3	2	
005	144a005	X	c10			24-MAY-2006 10:23	20.0						
006	144a006	X	c12-c60			24-MAY-2006 10:51	1.0						
007	144a007	XCCV	dsl_250			24-MAY-2006 11:42	1.0	1.0			3	3	
008	144a008	CCV	mo_500			24-MAY-2006 12:10	1.0	1.0	2		3	1	
009	144a009	CCV	dsl_500			24-MAY-2006 12:58	1.0	1.0			3	2	
010	144a010	SAMPLE	186881-002 S	113605	Soil	24-MAY-2006 13:26	1.0	0.1000			3		
011	144a011	CCV	mo_500			24-MAY-2006 14:06	1.0	1.0	1		3	1	
012	144a012	CCV	dsl_1000			24-MAY-2006 14:33	1.0	1.0			3	4	
013	144a013	X	ib			24-MAY-2006 15:37	1.0						
014	144a014	ICAL	mo_50			24-MAY-2006 16:05	1.0	1.0				5	
015	144a015	ICAL	mo_250			24-MAY-2006 16:33	1.0	1.0				6	42
016	144a016	ICAL	mo_500			24-MAY-2006 17:01	1.0	1.0				7	
017	144a017	ICAL	mo_1000			24-MAY-2006 17:29	1.0	1.0				8	
018	144a018	ICAL	mo_2500			24-MAY-2006 17:56	1.0	1.0				9	
019	144a019	ICAL	mo_5000			24-MAY-2006 18:25	1.0	1.0				10	
020	144a020	X	ib			24-MAY-2006 18:52	1.0						
021	144a021	CCV	dsl_500			24-MAY-2006 19:20	1.0	1.0			3	2	
022	144a022	CCV	mo_500			24-MAY-2006 19:48	1.0	1.0			3	1	
023	144a023	CCV	ker_250			24-MAY-2006 20:16	1.0	1.0			3	11	
024	144a024	CCV	hyfl_1250			24-MAY-2006 20:44	1.0	1.0			3	12	
025	144a025	BLANK	QC341186 S	113728	Soil	24-MAY-2006 21:46	1.0	0.1003	6		3		
026	144a026	LCS	QC341187 S	113728	Soil	24-MAY-2006 22:14	1.0	0.1002			3		
027	144a027	MSS	186961-001	113728	Soil	24-MAY-2006 22:42	1.0	0.1001	6		3		
028	144a028	MS	QC341188	113728	Soil	24-MAY-2006 23:10	1.0	0.1001		1	3		
029	144a029	MSD	QC341189	113728	Soil	24-MAY-2006 23:38	1.0	0.1003		1	3		
030	144a030	X	ib			25-MAY-2006 00:06	1.0						
031	144a031	BLANK	QC341022 S	113681	Water	25-MAY-2006 00:34	1.0	0.005	6		3		

Stds used: 1=S3404 2=S3367 3=S3366 4=S3368 5=S3326 6=S3327 7=S3328 8=S3329 9=S3330 10=S3325 11=S3508 12=S2429

SEQUENCE SUMMARY FOR 187137 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116207810 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 24-MAY-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	144a032	LCS	QC341023 S	113681	Water	25-MAY-2006 01:02	1.0	0.005			3		
033	144a033	MSS	186908-003	113681	Water	25-MAY-2006 01:30	1.0	0.005	6		3		
034	144a034	MS	QC341024	113681	Water	25-MAY-2006 01:58	1.0	0.005			3		
035	144a035	MSD	QC341025	113681	Water	25-MAY-2006 02:26	1.0	0.005			3		
036	144a036	CCV	dsl_1000			25-MAY-2006 02:54	1.0	1.0			3	4	
037	144a037	CCV	mo_500			25-MAY-2006 03:22	1.0	1.0			3	1	
038	144a038	CCV	ker_250			25-MAY-2006 03:50	1.0	1.0			3	11	
039	144a039	CCV	hyfl_1250			25-MAY-2006 04:18	1.0	1.0			3	12	
040	144a040	X	ccv			25-MAY-2006 04:46	1.0					4	
041	144a041	SAMPLE	186935-001	113728	Soil	25-MAY-2006 05:14	1.0	0.1001			3		
042	144a042	SAMPLE	186935-002	113728	Soil	25-MAY-2006 05:42	1.0	0.1003			3		
043	144a043	SAMPLE	186902-001	113681	Water	25-MAY-2006 06:10	5.0	0.005			3		
044	144a044	SAMPLE	186902-002	113681	Water	25-MAY-2006 06:38	5.0	0.005	1	1	3		3:BUNKC:=5270.47
045	144a045	X	ib			25-MAY-2006 07:06	1.0						
046	144a046	CCV	mo_500			25-MAY-2006 08:36	1.0	1.0			3	1	
047	144a047	CCV	dsl_250			25-MAY-2006 09:03	1.0	1.0			3	3	
048	144a048	CCV	ker_250			25-MAY-2006 09:31	1.0	1.0			3	11	
049	144a049	CCV	hyfl_1250			25-MAY-2006 09:59	1.0	1.0			3	12	
050	144a050	SAMPLE	187028-005	113771	Soil	25-MAY-2006 10:58	2.0	0.09956			3		4:BUNKC:=8908.76
051	144a051	SAMPLE	186902-002	113681	Water	25-MAY-2006 11:26	10.0	0.005			3		
052	144a052	CCV	mo_500			25-MAY-2006 12:04	1.0	1.0			3	1	
053	144a053	CCV	dsl_500			25-MAY-2006 12:32	1.0	1.0			3	2	
054	144a054	CCV	ker_250			25-MAY-2006 13:00	1.0	1.0			3	11	

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Stds used: 1=S3404 2=S3367 3=S3366 4=S3368 5=S3326 6=S3327 7=S3328 8=S3329 9=S3330 10=S3325 11=S3508 12=S2429

SEQUENCE SUMMARY FOR 187137 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166219336 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 01-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	152b001	X	primer			01-JUN-2006 07:36	1.0						
002	152b002	X	ib			01-JUN-2006 08:03	1.0						
003	152b003	CCV	dsl_500			01-JUN-2006 08:31	1.0		3			1	
004	152b004	CCV	mo_500			01-JUN-2006 08:59	1.0		3			2	
006	152b006	X	ib			01-JUN-2006 14:06	1.0						
007	152b007	ICAL	mo_50			01-JUN-2006 14:33	1.0					3	
008	152b008	X	ib			01-JUN-2006 16:52	1.0						
009	152b009	X	ib			01-JUN-2006 17:20	1.0						
010	152b010	ICAL	mo_50			01-JUN-2006 17:48	1.0					3	
011	152b011	ICAL	mo_250			01-JUN-2006 18:15	1.0					4	
012	152b012	ICAL	mo_500			01-JUN-2006 18:43	1.0					5	
013	152b013	ICAL	mo_1000			01-JUN-2006 19:10	1.0					6	
014	152b014	ICAL	mo_2500			01-JUN-2006 19:38	1.0					7	
015	152b015	ICAL	mo_5000			01-JUN-2006 20:05	1.0					8	
016	152b016	X	ib			01-JUN-2006 20:33	1.0						44

Stds used: 1=S3367 2=S3404 3=S3326 4=S3327 5=S3328 6=S3329 7=S3330 8=S3325

SEQUENCE SUMMARY FOR 187137 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116226958 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 06-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	157a001	X	PRIMER			06-JUN-2006 14:38	1.0						
002	157a002	X	IB			06-JUN-2006 15:06	1.0						
003	157a003	CCV	DSL_500			06-JUN-2006 15:34	1.0	1.0			3	1	
004	157a004	CCV	MO_500			06-JUN-2006 16:02	1.0	1.0			3	2	
005	157a005	BLANK	QC342790	114126	Soil	06-JUN-2006 17:05	1.0	0.09917	8		3		
006	157a006	LCS	QC342791	114126	Soil	06-JUN-2006 17:33	1.0	0.09962			3		
007	157a007	MSS	187151-002	114126	Soil	06-JUN-2006 18:01	3.0	0.1002	8		3		
008	157a008	MS	QC342792	114126	Soil	06-JUN-2006 18:29	3.0	0.1007		2	3		
009	157a009	MSD	QC342793	114126	Soil	06-JUN-2006 18:57	3.0	0.1006		2	3		
010	157a010	X	IB			06-JUN-2006 19:25	1.0						
011	157a011	SAMPLE	187151-001	114126	Soil	06-JUN-2006 19:52	2.0	0.1001		1	3		
012	157a012	SAMPLE	187151-003	114126	Soil	06-JUN-2006 20:21	2.0	0.1002			3		
013	157a013	SAMPLE	187151-004	114126	Soil	06-JUN-2006 20:48	3.0	0.1001			3		
014	157a014	X	IB			06-JUN-2006 21:16	1.0						
015	157a015	SAMPLE	187151-005	114126	Soil	06-JUN-2006 21:44	3.0	0.1004			3		45
016	157a016	SAMPLE	187151-006	114126	Soil	06-JUN-2006 22:12	3.0	0.1008			3		
017	157a017	X	IB			06-JUN-2006 22:40	1.0						
018	157a018	CCV	DSL_1000			06-JUN-2006 23:08	1.0	1.0			3	3	
019	157a019	CCV	MO_500			06-JUN-2006 23:36	1.0	1.0			3	2	
020	157a020	X	CCV			07-JUN-2006 00:04	1.0					3	
021	157a021	X	CCV			07-JUN-2006 00:32	1.0					2	
022	157a022	SAMPLE	187151-007	114126	Soil	07-JUN-2006 01:00	3.0	0.1005			3		
023	157a023	SAMPLE	187151-008	114126	Soil	07-JUN-2006 01:28	3.0	0.1002			3		
024	157a024	SAMPLE	187151-009	114126	Soil	07-JUN-2006 01:56	5.0	0.1001			3		
025	157a025	SAMPLE	187151-010	114126	Soil	07-JUN-2006 02:24	5.0	0.1005			3		
026	157a026	SAMPLE	187151-011	114126	Soil	07-JUN-2006 02:51	3.0	0.1002			3		
027	157a027	X	IB			07-JUN-2006 03:19	1.0						
028	157a028	SAMPLE	187151-012	114126	Soil	07-JUN-2006 03:47	2.0	0.1000			3		
029	157a029	SAMPLE	187151-013	114126	Soil	07-JUN-2006 04:15	5.0	0.1006			3		
030	157a030	SAMPLE	187151-014	114126	Soil	07-JUN-2006 04:43	3.0	0.1001			3		
031	157a031	SAMPLE	187151-015	114126	Soil	07-JUN-2006 05:11	5.0	0.1002			3		

Stds used: 1=S3367 2=S3639 3=S3368 4=S3366 5=S3623

SEQUENCE SUMMARY FOR 187137 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116226958 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 06-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	157a032	SAMPLE	187151-016	114126	Soil	07-JUN-2006 05:39	3.0	0.1003			3		
033	157a033	X	IB			07-JUN-2006 06:07	1.0						
034	157a034	CCV	DSL_250			07-JUN-2006 06:35	1.0	1.0			3	4	
035	157a035	CCV	MO_500			07-JUN-2006 07:03	1.0	1.0			3	2	
036	157a036	X	CCV			07-JUN-2006 07:31	1.0					4	
037	157a037	X	CCV			07-JUN-2006 07:59	1.0					2	
038	157a038	SAMPLE	187151-017	114126	Soil	07-JUN-2006 08:27	3.0	0.1005			3		
039	157a039	SAMPLE	187151-018	114126	Soil	07-JUN-2006 08:54	5.0	0.1001			3		
040	157a040	SAMPLE	187151-019	114126	Soil	07-JUN-2006 09:22	5.0	0.1007			3		
041	157a041	SAMPLE	187151-020	114126	Soil	07-JUN-2006 09:50	5.0	0.1005			3		
042	157a042	X	IB			07-JUN-2006 10:19	1.0						
043	157a043	SAMPLE	187151-001	114126	Soil	07-JUN-2006 10:46	2.0	0.1001		1	3		
044	157a044	SAMPLE	187151-022	114155	Soil	07-JUN-2006 12:31	1.0	0.1004			3		
045	157a045	SAMPLE	187151-024	114155	Soil	07-JUN-2006 12:59	1.0	0.1001			3		
046	157a046	X	IB			07-JUN-2006 13:27	1.0						
047	157a047	SAMPLE	187151-021	114155	Soil	07-JUN-2006 13:55	1.0	0.1006			3		
048	157a048	SAMPLE	187151-023	114155	Soil	07-JUN-2006 14:23	2.0	0.1004			3		
049	157a049	X	IB			07-JUN-2006 14:51	1.0						
050	157a050	SAMPLE	187236-001	114123	Water	07-JUN-2006 15:19	1.0	0.005			3		
051	157a051	CCV	DSL_500			07-JUN-2006 15:47	1.0	1.0			3	5	
052	157a052	CCV	MO_500			07-JUN-2006 16:15	1.0	1.0			3	2	
053	157a053	BLANK	QC342781 S	114123	Water	07-JUN-2006 16:53	1.0	0.005	8		3		
054	157a054	BS	QC342782 S	114123	Water	07-JUN-2006 17:21	1.0	0.005			3		
055	157a055	BSD	QC342783 S	114123	Water	07-JUN-2006 17:49	1.0	0.005			3		
056	157a056	SAMPLE	187169-001 S	114123	Water	07-JUN-2006 18:17	1.0	0.005			3		
057	157a057	SAMPLE	187065-001 S	114123	Water	07-JUN-2006 18:44	1.0	0.005			3		
058	157a058	SAMPLE	187065-002 S	114123	Water	07-JUN-2006 19:12	1.0	0.005			3		
059	157a059	SAMPLE	187065-003 S	114123	Water	07-JUN-2006 19:40	1.0	0.005			3		
060	157a060	SAMPLE	187065-004 S	114123	Water	07-JUN-2006 20:08	1.0	0.005			3		
061	157a061	SAMPLE	187065-005 S	114123	Water	07-JUN-2006 20:36	1.0	0.005			3		
062	157a062	SAMPLE	187065-006 S	114123	Water	07-JUN-2006 21:04	1.0	0.005			3		

Stds used: 1=S3367 2=S3639 3=S3368 4=S3366 5=S3623

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SEQUENCE SUMMARY FOR 187137 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116226958 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 06-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
063	157a063	X	IB			07-JUN-2006 21:32	1.0						
064	157a064	CCV	DSL_1000			07-JUN-2006 22:00	1.0	1.0			3	3	
065	157a065	CCV	MO_500			07-JUN-2006 22:28	1.0	1.0			3	2	
066	157a066	X	CCV			07-JUN-2006 22:56	1.0					3	
067	157a067	X	CCV			07-JUN-2006 23:24	1.0					2	
068	157a068	BLANK	QC342998 S	114176	Water	07-JUN-2006 23:52	1.0	0.005			3		
069	157a069	BS	QC342999 S	114176	Water	08-JUN-2006 00:20	1.0	0.005			3		
070	157a070	BSD	QC343000 S	114176	Water	08-JUN-2006 00:48	1.0	0.005			3		
071	157a071	SAMPLE	187263-001	114176	Water	08-JUN-2006 01:16	1.0	0.005			3		
072	157a072	SAMPLE	187263-002	114176	Water	08-JUN-2006 01:44	1.0	0.005		1	3		
073	157a073	SAMPLE	187263-003	114176	Water	08-JUN-2006 02:12	1.0	0.005		1	3		
074	157a074	X	IB			08-JUN-2006 02:40	1.0						
075	157a075	SAMPLE	187246-011	114207	Soil	08-JUN-2006 03:08	1.0	0.1001			3		
076	157a076	SAMPLE	187246-010	114207	Soil	08-JUN-2006 03:36	1.0	0.09952			3		
077	157a077	SAMPLE	187212-003	114207	Soil	08-JUN-2006 04:04	1.0	0.1001			3		
078	157a078	SAMPLE	187151-001	114207	Soil	08-JUN-2006 04:32	5.0	0.1001			3		
079	157a079	X	IB			08-JUN-2006 05:00	1.0						
080	157a080	CCV	DSL_250			08-JUN-2006 05:28	1.0	1.0			3	4	
081	157a081	CCV	MO_500			08-JUN-2006 05:56	1.0	1.0			3	2	
082	157a082	X	CCV			08-JUN-2006 06:24	1.0					4	
083	157a083	X	CCV			08-JUN-2006 06:52	1.0					2	
084	157a084	SAMPLE	187051-002	114155	Soil	08-JUN-2006 07:20	1.0	0.1001			3		
085	157a085	SAMPLE	187051-003	114155	Soil	08-JUN-2006 07:48	1.0	0.1004			3		
086	157a086	SAMPLE	187051-004	114155	Soil	08-JUN-2006 08:16	10.0	0.1006			3		
087	157a087	X	IB			08-JUN-2006 08:43	1.0						
088	157a088	SAMPLE	187051-005	114155	Soil	08-JUN-2006 09:11	10.0	0.1006			3		
089	157a089	X	IB			08-JUN-2006 09:39	1.0						
090	157a090	LCS	QC343112 S	114207	Soil	08-JUN-2006 11:23	1.0	0.1003			3		
091	157a091	BLANK	QC343111 S	114207	Soil	08-JUN-2006 11:50	1.0	0.1002	8		3		
092	157a092	MSS	187241-015 S	114207	Soil	08-JUN-2006 12:18	20.0	0.09962	8		3		
093	157a093	SAMPLE	187241-010 S	114207	Soil	08-JUN-2006 12:51	20.0	0.1007			3		

Stds used: 1=S3367 2=S3639 3=S3368 4=S3366 5=S3623

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SEQUENCE SUMMARY FOR 187137 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116226958 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 06-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
094	157a094	SAMPLE	187241-025 S	114207	Soil	08-JUN-2006 13:19	40.0	0.2004	3		
095	157a095	SAMPLE	187241-045 S	114207	Soil	08-JUN-2006 13:47	40.0	0.09915	3		
096	157a096	X	IB			08-JUN-2006 14:15	1.0				
097	157a097	CCV	DSL_500			08-JUN-2006 14:43	1.0	1.0	3	1	
098	157a098	CCV	MO_500			08-JUN-2006 15:11	1.0	1.0	3	2	
099	157a099	SAMPLE	187263-003	114176	Water	08-JUN-2006 15:39	1.0	0.005	3		
100	157a100	SAMPLE	187263-002	114176	Water	08-JUN-2006 16:07	1.0	0.005	3		
101	157a101	CCV	DSL_500			08-JUN-2006 16:41	1.0	1.0	3	1	
102	157a102	CCV	MO_500			08-JUN-2006 17:09	1.0	1.0	3	2	

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Stds used: 1=S3367 2=S3639 3=S3368 4=S3366 5=S3623

SEQUENCE SUMMARY FOR 187137 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166226541 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 06-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	157b001	X	PRIMER			06-JUN-2006 07:41	1.0					
002	157b002	X	IB			06-JUN-2006 08:08	1.0					
003	157b003	CCV	DSL_500			06-JUN-2006 08:36	1.0	1.0		3	1	
004	157b004	CCV	MO_500			06-JUN-2006 09:03	1.0	1.0		3	2	
005	157b005	CCV	JP5_250			06-JUN-2006 09:31	1.0	1.0		3	3	
006	157b006	CCV	JP8_250			06-JUN-2006 09:58	1.0	1.0		3	4	
007	157b007	BLANK	QC342753	114117	Soil	06-JUN-2006 10:48	1.0	0.1006	6	3		
008	157b008	SAMPLE	187048-001	114117	Soil	06-JUN-2006 11:16	1.0	0.1002		3		
009	157b009	SAMPLE	187048-002	114117	Soil	06-JUN-2006 11:43	1.0	0.1001		3		
010	157b010	SAMPLE	187048-004	114117	Soil	06-JUN-2006 12:11	1.0	0.1004		3		
011	157b011	SAMPLE	187048-006	114117	Soil	06-JUN-2006 12:39	1.0	0.1006		3		
012	157b012	SAMPLE	187048-008	114117	Soil	06-JUN-2006 13:06	1.0	0.1006		3		
013	157b013	SAMPLE	187048-009	114117	Soil	06-JUN-2006 13:34	1.0	0.1000		3		
014	157b014	SAMPLE	187048-007	114117	Soil	06-JUN-2006 14:01	2.0	0.1000		3		
015	157b015	MSS	187048-003	114117	Soil	06-JUN-2006 14:29	2.0	0.1004	6	3		49
016	157b016	SAMPLE	187048-005	114117	Soil	06-JUN-2006 14:56	10.0	0.1006		3		
017	157b017	X	IB			06-JUN-2006 15:24	1.0					
018	157b018	CCV	DSL_1000			06-JUN-2006 15:52	1.0	1.0		3	5	
019	157b019	CCV	MO_500			06-JUN-2006 16:20	1.0	1.0		3	6	
020	157b020	CCV	JP5_250			06-JUN-2006 16:47	1.0	1.0		3	3	
021	157b021	CCV	JP8_250			06-JUN-2006 17:15	1.0	1.0		3	4	
022	157b022	X	QC342633 S	114090	Water	06-JUN-2006 17:54	1.0	0.005	6	3		
023	157b023	SAMPLE	187040-001	114090	Water	06-JUN-2006 18:21	1.0	0.005		3		
024	157b024	SAMPLE	187040-002	114090	Water	06-JUN-2006 18:49	1.0	0.005		3		
025	157b025	SAMPLE	187040-003	114090	Water	06-JUN-2006 19:16	1.0	0.005		3		
026	157b026	SAMPLE	187046-001 S	113987	Water	06-JUN-2006 19:44	1.0	0.005		3		
027	157b027	SAMPLE	187046-002 S	113987	Water	06-JUN-2006 20:11	1.0	0.005		3		
028	157b028	SAMPLE	187046-003 S	113987	Water	06-JUN-2006 20:39	1.0	0.005		3		
029	157b029	SAMPLE	187046-004 S	113987	Water	06-JUN-2006 21:07	1.0	0.005		3		
030	157b030	SAMPLE	187046-005 S	113987	Water	06-JUN-2006 21:35	1.0	0.005		3		
031	157b031	SAMPLE	187046-006 S	113987	Water	06-JUN-2006 22:02	1.0	0.005	2	3		15:BUNKC:=49180.4

Stds used: 1=S3367 2=S3404 3=S3333 4=S3510 5=S3368 6=S3639 7=S3366

SEQUENCE SUMMARY FOR 187137 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166226541 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 06-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	157b032	X	IB			06-JUN-2006 22:29	1.0					
033	157b033	CCV	DSL_250			06-JUN-2006 22:57	1.0	1.0		3	7	
034	157b034	CCV	MO_500			06-JUN-2006 23:24	1.0	1.0		3	6	
035	157b035	CCV	JP5_250			06-JUN-2006 23:52	1.0	1.0		3	3	
036	157b036	CCV	JP8_250			07-JUN-2006 00:20	1.0	1.0		3	4	
037	157b037	X	CCV			07-JUN-2006 00:47	1.0				7	
038	157b038	X	CCV			07-JUN-2006 01:15	1.0				6	
039	157b039	SAMPLE	187077-002	114117	Soil	07-JUN-2006 01:42	3.0	0.1002		3		2:BUNKC:=7279.20
040	157b040	SAMPLE	187077-004	114117	Soil	07-JUN-2006 02:10	2.0	0.1006		3		5:BUNKC:=17526.2
041	157b041	SAMPLE	187077-007	114117	Soil	07-JUN-2006 02:37	5.0	0.1003		3		3:BUNKC:=7880.53
042	157b042	X	IB			07-JUN-2006 03:05	1.0					
043	157b043	SAMPLE	187020-001 S	114090	Water	07-JUN-2006 03:32	1.0	0.005		3		
044	157b044	SAMPLE	187020-002 S	114090	Water	07-JUN-2006 04:00	1.0	0.005		3		
045	157b045	SAMPLE	187020-003 S	114090	Water	07-JUN-2006 04:28	1.0	0.005		3		
046	157b046	SAMPLE	187020-004 S	114090	Water	07-JUN-2006 04:55	1.0	0.005		3		50
047	157b047	SAMPLE	187020-005 S	114090	Water	07-JUN-2006 05:23	1.0	0.005		3		
048	157b048	SAMPLE	187020-006 S	114090	Water	07-JUN-2006 05:50	1.0	0.005		3		
049	157b049	SAMPLE	187020-007 S	114090	Water	07-JUN-2006 06:18	1.0	0.005		3		
050	157b050	X	IB			07-JUN-2006 06:45	1.0					
051	157b051	CCV	DSL_500			07-JUN-2006 07:12	1.0	1.0		3	1	
052	157b052	CCV	MO_500			07-JUN-2006 07:40	1.0	1.0		3	6	
053	157b053	CCV	JP5_250			07-JUN-2006 08:07	1.0	1.0		3	3	
054	157b054	CCV	JP8_250			07-JUN-2006 08:35	1.0	1.0		3	4	
055	157b055	X	CCV			07-JUN-2006 09:02	1.0				1	
056	157b056	X	CCV			07-JUN-2006 09:30	1.0				6	
057	157b057	X	QC342633	114090	Water	07-JUN-2006 09:58	1.0	0.005	6	3		
058	157b058	SAMPLE	187020-015 S	114090	Water	07-JUN-2006 10:25	1.0	0.005		3		
059	157b059	SAMPLE	187020-014 S	114090	Water	07-JUN-2006 10:53	1.0	0.005		3		
060	157b060	SAMPLE	187046-006 S	113987	Water	07-JUN-2006 11:20	10.0	0.005		3		
061	157b061	X	IB			07-JUN-2006 11:47	1.0					
062	157b062	BLANK	QC342633 S	114090	Water	07-JUN-2006 12:15	1.0	0.005	6	3		

Stds used: 1=S3367 2=S3404 3=S3333 4=S3510 5=S3368 6=S3639 7=S3366

SEQUENCE SUMMARY FOR 187137 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166226541 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 06-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
063	157b063	CCV	DSL_1000			07-JUN-2006 13:08	1.0	1.0			3	5	
064	157b064	CCV	MO_500			07-JUN-2006 13:36	1.0	1.0			3	6	
065	157b065	CCV	JP5_250			07-JUN-2006 14:03	1.0	1.0			3	3	
066	157b066	CCV	JP8_250			07-JUN-2006 14:31	1.0	1.0			3	4	
067	157b067	BLANK	QC342777 S	114122	Water	07-JUN-2006 14:58	1.0	0.005	6		3		
068	157b068	SAMPLE	187047-009	114122	Water	07-JUN-2006 15:26	1.0	0.005			3		
069	157b069	SAMPLE	187047-010	114122	Water	07-JUN-2006 15:53	1.0	0.005			3		
070	157b070	SAMPLE	187047-011	114122	Water	07-JUN-2006 16:21	1.0	0.005			3		
071	157b071	SAMPLE	187075-001	114122	Water	07-JUN-2006 16:48	1.0	0.005			3		
072	157b072	SAMPLE	187075-003	114122	Water	07-JUN-2006 17:16	1.0	0.005		1	3		
073	157b073	SAMPLE	187075-004	114122	Water	07-JUN-2006 17:44	1.0	0.005			3		
074	157b074	SAMPLE	187075-005	114122	Water	07-JUN-2006 18:11	1.0	0.005			3		
075	157b075	SAMPLE	187075-006	114122	Water	07-JUN-2006 18:39	1.0	0.005			3		
076	157b076	SAMPLE	187075-008	114122	Water	07-JUN-2006 19:06	1.0	0.005			3		
077	157b077	CCV	DSL_250			07-JUN-2006 19:33	1.0	1.0			3	7	51
078	157b078	CCV	MO_500			07-JUN-2006 20:01	1.0	1.0			3	6	
079	157b079	X	CC			07-JUN-2006 20:28	1.0						
080	157b080	CCV	JP5_250			07-JUN-2006 20:56	1.0	1.0			3	3	
081	157b081	CCV	JP8_250			07-JUN-2006 21:24	1.0	1.0			3	4	
082	157b082	LCS	QC342778 S	114122	Water	07-JUN-2006 21:51	1.0	0.005			3		
083	157b083	MS	QC342779 S	114122	Water	07-JUN-2006 22:19	1.0	0.005			3		
084	157b084	MSD	QC342780 S	114122	Water	07-JUN-2006 22:47	1.0	0.005			3		
085	157b085	MSS	187086-001 S	114122	Water	07-JUN-2006 23:14	1.0	0.005	6		3		
086	157b086	SAMPLE	187086-002 S	114122	Water	07-JUN-2006 23:42	1.0	0.005			3		
087	157b087	SAMPLE	187086-003 S	114122	Water	08-JUN-2006 00:09	1.0	0.005			3		
088	157b088	SAMPLE	187086-004 S	114122	Water	08-JUN-2006 00:36	1.0	0.005			3		
089	157b089	SAMPLE	187086-005 S	114122	Water	08-JUN-2006 01:04	1.0	0.005			3		
090	157b090	SAMPLE	187086-006 S	114122	Water	08-JUN-2006 01:31	1.0	0.005			3		
091	157b091	SAMPLE	187075-003	114122	Water	08-JUN-2006 01:59	1.0	0.005			3		
092	157b092	CCV	DSL_500			08-JUN-2006 02:26	1.0	1.0			3	1	
093	157b093	CCV	MO_500			08-JUN-2006 02:54	1.0	1.0			3	6	

Stds used: 1=S3367 2=S3404 3=S3333 4=S3510 5=S3368 6=S3639 7=S3366

SEQUENCE SUMMARY FOR 187137 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 166226541 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 06-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
094	157b094	X	CCV			08-JUN-2006 03:21	1.0					1	
095	157b095	CCV	JP5_250			08-JUN-2006 03:48	1.0	1.0			3	3	
096	157b096	CCV	JP8_250			08-JUN-2006 04:16	1.0	1.0			3	4	
097	157b097	BLANK	QC342777 S	114122	Water	08-JUN-2006 04:44	1.0	0.005	6		3		
098	157b098	X	QC342777	114122	Water	08-JUN-2006 05:12	1.0	0.005	7		3	1:HXCS=279.777	
099	157b099	SAMPLE	187086-007	114122	Water	08-JUN-2006 05:40	1.0	0.005			3		
100	157b100	SAMPLE	187086-008 S	114122	Water	08-JUN-2006 06:07	1.0	0.005			3		
101	157b101	SAMPLE	187086-009 S	114122	Water	08-JUN-2006 06:34	1.0	0.005			3		
102	157b102	SAMPLE	187150-001 S	114122	Water	08-JUN-2006 07:02	1.0	0.005			3		
103	157b103	SAMPLE	187150-002 S	114122	Water	08-JUN-2006 07:30	1.0	0.005			3		
104	157b104	CCV	DSL_1000			08-JUN-2006 07:57	1.0	1.0			3	5	
105	157b105	CCV	MO_500			08-JUN-2006 08:25	1.0	1.0			3	6	
106	157b106	CCV	JP5_250			08-JUN-2006 08:52	1.0	1.0			3	3	
107	157b107	CCV	JP8_250			08-JUN-2006 09:20	1.0	1.0			3	4	
108	157b108	X	CCV			08-JUN-2006 09:47	1.0					1	52
109	157b109	BLANK	QC342777 S	114122	Water	08-JUN-2006 10:15	1.0	0.005	7		3	1:HXCS=244.620	
110	157b110	X	IB			08-JUN-2006 10:50	1.0						
111	157b111	BLANK	QC342998 S	114176	Water	08-JUN-2006 11:17	1.0	0.005			3		
112	157b112	SAMPLE	187241-020 S	114207	Soil	08-JUN-2006 11:45	1.0	0.1001			3		
113	157b113	SAMPLE	187241-050 S	114207	Soil	08-JUN-2006 12:12	20.0	0.09994			3		
114	157b114	SAMPLE	187241-060 S	114207	Soil	08-JUN-2006 12:40	20.0	0.1003			3		
115	157b115	SAMPLE	187241-055 S	114207	Soil	08-JUN-2006 13:08	10.0	0.2003			3		
116	157b116	SAMPLE	187212-002	114207	Soil	08-JUN-2006 14:01	5.0	0.1002		1	3	2:BUNKC:=6706.36	
117	157b117	MSS	187051-001	114155	Soil	08-JUN-2006 14:29	1.0	0.1003	6		3		
118	157b118	CCV	DSL_250			08-JUN-2006 15:02	1.0	1.0			3	7	
119	157b119	CCV	MO_500			08-JUN-2006 15:30	1.0	1.0			3	6	
120	157b120	CCV	JP5_250			08-JUN-2006 15:57	1.0	1.0			3	3	
121	157b121	CCV	JP8_250			08-JUN-2006 16:25	1.0	1.0			3	4	

Stds used: 1=S3367 2=S3404 3=S3333 4=S3510 5=S3368 6=S3639 7=S3366

SEQUENCE SUMMARY FOR 187137 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116230044 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 08-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	159a001	X	PRIMER			08-JUN-2006 18:04	1.0						
002	159a002	X	IB			08-JUN-2006 18:32	1.0						
003	159a003	CCV	DSL_500			08-JUN-2006 19:00	1.0	1.0			3	1	
004	159a004	CCV	MO_500			08-JUN-2006 19:27	1.0	1.0			3	2	
005	159a005	SAMPLE	187220-001	114176	Water	08-JUN-2006 21:27	1.0	0.005			3		
006	159a006	SAMPLE	187220-002	114176	Water	08-JUN-2006 21:55	1.0	0.005			3		
007	159a007	SAMPLE	187220-003	114176	Water	08-JUN-2006 22:23	1.0	0.005			3		
008	159a008	SAMPLE	187221-003	114176	Water	08-JUN-2006 22:51	1.0	0.005			3		
009	159a009	SAMPLE	187112-001 S	114176	Water	08-JUN-2006 23:19	1.0	0.005			3		
010	159a010	SAMPLE	187112-002 S	114176	Water	08-JUN-2006 23:47	1.0	0.005			3		
011	159a011	SAMPLE	187112-013 S	114176	Water	09-JUN-2006 00:15	1.0	0.005			3		
012	159a012	SAMPLE	187112-015 S	114176	Water	09-JUN-2006 00:44	1.0	0.005			3		
013	159a013	SAMPLE	187112-016 S	114176	Water	09-JUN-2006 01:12	1.0	0.005			3		
014	159a014	SAMPLE	187137-001 S	114176	Water	09-JUN-2006 01:40	1.0	0.005			3		
015	159a015	X	IB			09-JUN-2006 02:09	1.0						53
016	159a016	CCV	DSL_1000			09-JUN-2006 02:37	1.0	1.0			3	3	
017	159a017	CCV	MO_500			09-JUN-2006 03:04	1.0	1.0			3	2	
018	159a018	X	CCV			09-JUN-2006 03:33	1.0					3	
019	159a019	X	CCV			09-JUN-2006 04:01	1.0					2	
020	159a020	BLANK	QC343264 S	114245	Soil	09-JUN-2006 04:29	1.0	0.1000	8		3		
021	159a021	LCS	QC343265 S	114245	Soil	09-JUN-2006 04:57	1.0	0.09966			3		
022	159a022	MSS	187214-005 S	114245	Soil	09-JUN-2006 05:25	1.0	0.09966	8		3		
023	159a023	MS	QC343266 S	114245	Soil	09-JUN-2006 05:53	1.0	0.09964			3		
024	159a024	MSD	QC343267 S	114245	Soil	09-JUN-2006 06:21	1.0	0.09984			3		
025	159a025	X	IB			09-JUN-2006 06:50	1.0						
026	159a026	SAMPLE	187109-002 S	114175	Water	09-JUN-2006 07:18	1.0	0.005			3		
027	159a027	SAMPLE	187109-003 S	114175	Water	09-JUN-2006 07:46	1.0	0.005			3		
028	159a028	SAMPLE	187109-004 S	114175	Water	09-JUN-2006 08:14	1.0	0.005		1	3		
029	159a029	SAMPLE	187214-006 S	114245	Soil	09-JUN-2006 08:42	1.0	0.1002			3		
030	159a030	SAMPLE	187214-007 S	114245	Soil	09-JUN-2006 09:10	1.0	0.1003			3		
031	159a031	CCV	DSL_250			09-JUN-2006 09:38	1.0	1.0			3	4	

Stds used: 1=S3367 2=S3639 3=S3368 4=S3366

SEQUENCE SUMMARY FOR 187137 GCSV Water
Curtis & Tompkins Laboratories

Sequence: 116230044 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 08-JUN-2006
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
032	159a032	CCV	MO_500			09-JUN-2006 10:06	1.0	1.0	3	2	

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Stds used: 1=S3367 2=S3639 3=S3368 4=S3366

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187137 TEHM Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	MO:2	HXCS	
187137-001	GC11A	06/09/06 01:40	1.0	+	+	+	
QC342998	GC11A	06/07/06 23:52	1.0				
QC342998	GC15B	06/08/06 11:17	1.0	+	+	+	
QC342999	GC11A	06/08/06 00:20	1.0	+		+	
QC343000	GC11A	06/08/06 00:48	1.0	+		+	

Curtis & Tompkins Laboratories **Sample Preparation Summary** **08-JUN-2006 08:40**

Batch Number : 114176
Date Extracted: 06-JUN-2006
Extracted by : Matthew Josh McManus
Prep Method : 3520C

Analysis : N/A
Bgroup : TEH
Units : mL
Clean-up :

Spike #1 ID : S3417C
Spike #2 ID : S3587D
Spike #3 ID :
SOP Version : TEH50LL_rv10

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
187112-001		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
187112-002		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
187112-013		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
187112-015		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
187112-016		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
187137-001		Treadwell & Rollo	Water	500	mL	2.5	0.005000	1	6	.5	0		TEHM	3630C	
187138-001		Tetra Tech EC, INC	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH		
187138-002		Tetra Tech EC, INC	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH		
187138-004		Tetra Tech EC, INC	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH		
187138-006		Tetra Tech EC, INC	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH		
187220-001		RMT, Inc.	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH		
187220-002		RMT, Inc.	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH		
187220-003		RMT, Inc.	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH		
187221-003		RMT, Inc.	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH		
187263-001		LFR Levine Fricke	Water	500	mL	2.5	0.005000	1	7	.5	0		TEH		
187263-002		LFR Levine Fricke	Water	500	mL	2.5	0.005000	1	8	.5	0		TEH		
187263-003		LFR Levine Fricke	Water	500	mL	2.5	0.005000	1	6	.5	0		TEH		
QC342998	BLANK		Water	500	mL	2.5	0.005000	1		.5	0		TEH	3630C	
QC342999	BS		Water	500	mL	2.5	0.005000	1		.5	.5		TEH	3630C	
QC343000	BSD		Water	500	mL	2.5	0.005000	1		.5	.5		TEH	3630C	

Prep Chemist: JDM for MJM Reviewed By: KRey Date: 8 JUN 06

Relinquished By: KRey Received By: MJB Date: 6/8/06

Curtis & Tompkins, Ltd

TEH WATER PREP LOG

BK2279

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LIMS Batch No: 114176
LIMS Analysis: TEH/M
Extracted by: MJM
Date Extracted: 6/6/06

Extraction Method:
☐ mod. EPA 3510 sep. funnel
☒ mod. EPA 3520 cont. L/L
☐ _____

Cleanup Method (if needed):
☒ EPA 3630 Silica Gel
☐ Other _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
187112-001E	500	6	2.5	X	
-002G					
-013O					
-015D					
-016					
187137-001L					
187138-001H					
-002G					
-004H					
-006					
187220-001G					
-002					
-003H					
187221-003					
MB QC 362998		NA		X	
BS 99					
BSD 3000					
187263-001H	500	7			Sediment
-002H		8			
-003H		6			

KR 8 JUN 06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.5 mL of TEH_SURR was added to all samples	53417C	6/6/06 MJM
0.5 mL of TEH_SP was added to all spikes	53587D	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	FS054522	
☒ Samples were continually extracted about 450 mL of CH_2Cl_2	EM466110	
Extraction Start Time:	1535 / 1445 / 1645 6/6/06	
Extraction End Time:	1235 MJM 6/7/06	
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	6/8/06 KR
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM4S091549	
Concentrated to volumes as noted above	✓	

6/6/06
Chemist Date

Contined from Page ___
Continued on Page ___

KR 8 JUN 06
Reviewed by Date

Curtis & Tompkins, Ltd.

Silica Gel Cleanup

EPA 3630c

Prep Chemist: SFL
Cleanup Date: 6/7/06

Benchbook # **BK 2325**
Page 31

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
MB QC 342998	114176	1.0	1.0	
LS 999	↓	↓	↓	
BD 3000	↓	↓	↓	
187109-001	114175	↓	↓	
-002	↓	↓	↓	
-003	↓	↓	↓	
-004	↓	↓	↓	

SL 6/7/06

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ____ g columns	N/A	SFL 6/7/06
☑ Extracts were cleaned up using 1.0 g cartridges	SP7156	↓
Extracts were eluted with 4.0 mL CH_2Cl_2	DM46110	↓
Concentrated to volumes as noted above		

6/7/06
Extraction Chemist / Date

Continued from page ___
Continued on page ___

6/7/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Silica Gel Cleanup

EPA 3630c

Prep Chemist: KR

Cleanup Date: 8 JUN 06

Benchbook # **BK 2325**

Page 32

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
187112-001	114176	1.0	1.0	
2				
13				
15				
16				
187137-001				

JBM 6/8/06

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled — g columns	NA	KR 8 JUN 06
☒ Extracts were cleaned up using 1.0 g cartridges	807156	
Extracts were eluted with 4.0 mL CH_2Cl_2	EM46110	
Concentrated to volumes as noted above	✓	

8 JUN 06

Extraction Chemist / Date

Continued from page —

Continued on page —

6/8/06

Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water
As of 06/20/06

Analyte	Units	GC11A	GC13B B	GC15B	GC17A
JP-5 C10-C16	ug/L	17	16	7.9	5.4
Jet Fuel A C10-C16	ug/L	14	30	24	33
Diesel C12-C36	ug/L	13	17		
Diesel C12-C32	ug/L	22	14	25	23
Diesel C12-C28	ug/L		31		
Diesel C12-C24	ug/L	20	13	20	33
Diesel C12-C22	ug/L	19	17	20	25
Diesel C10-C28	ug/L	18	11	22	37
Diesel C10-C24	ug/L	21	15	18	33
Diesel C10-C22	ug/L	21	18	19	27
Diesel C10-C20	ug/L		16	13	19
Motor Oil C22-C36	ug/L	41	52	30	51
Motor Oil C22-C32	ug/L	36	51	21	50
Motor Oil C28-C36	ug/L	42	55	33	76
Motor Oil C20-C36	ug/L	40	50	29	53
Motor Oil C24-C36	ug/L	42	55	33	76
Hexacosane	ug/L	4.5	3.4	4.2	3.1

VOLATILE ORGANIC COMPOUNDS

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	DW053006B	Batch#:	114139
Lab ID:	187137-001	Sampled:	05/30/06
Matrix:	Water	Received:	05/30/06
Units:	ug/L	Analyzed:	06/06/06
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	107	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	100	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC342855	Batch#:	114139
Matrix:	Water	Analyzed:	06/06/06
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.06
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-120
1,2-Dichloroethane-d4	97	76-114
Toluene-d8	98	88-110
Bromofluorobenzene	101	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	114139
Units:	ug/L	Analyzed:	06/06/06
Diln Fac:	1.000		

Type: BS Lab ID: QC342853

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	27.12	108	65-135
Benzene	25.00	26.23	105	65-135
Trichloroethene	25.00	27.94	112	65-135
Toluene	25.00	26.63	107	65-135
Chlorobenzene	25.00	26.44	106	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-120
1,2-Dichloroethane-d4	97	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	99	86-115

Type: BSD Lab ID: QC342854

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	25.77	103	65-135	5	35
Benzene	25.00	24.90	100	65-135	5	35
Trichloroethene	25.00	26.50	106	65-135	5	35
Toluene	25.00	25.47	102	65-135	4	35
Chlorobenzene	25.00	25.20	101	65-135	5	35

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-120
1,2-Dichloroethane-d4	97	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	99	86-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	114139
MSS Lab ID:	187206-005	Sampled:	06/02/06
Matrix:	Water	Received:	06/02/06
Units:	ug/L	Analyzed:	06/06/06
Diln Fac:	1.000		

Type: MS Lab ID: QC342875

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.1655	25.00	24.23	97	65-135
Benzene	<0.06135	25.00	25.77	103	65-135
Trichloroethene	<0.1670	25.00	27.03	108	65-135
Toluene	<0.09165	25.00	26.01	104	65-135
Chlorobenzene	<0.1570	25.00	25.44	102	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	108	76-114
Toluene-d8	103	88-110
Bromofluorobenzene	98	86-115

Type: MSD Lab ID: QC342876

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	24.83	99	65-135	2	35
Benzene	25.00	26.27	105	65-135	2	35
Trichloroethene	25.00	27.37	109	65-135	1	35
Toluene	25.00	26.55	106	65-135	2	35
Chlorobenzene	25.00	25.99	104	65-135	2	35

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	107	76-114
Toluene-d8	102	88-110
Bromofluorobenzene	97	86-115

RPD= Relative Percent Difference

Data File: \\GCMSSERVER\DD\chem\MSVOA07.i\060506.b\GF510.D

Date : 05-JUN-2006 12:33

Client ID: bfb tune std

Instrument: MSVOA07.i

ICAL

Sample Info: BFB,S2327

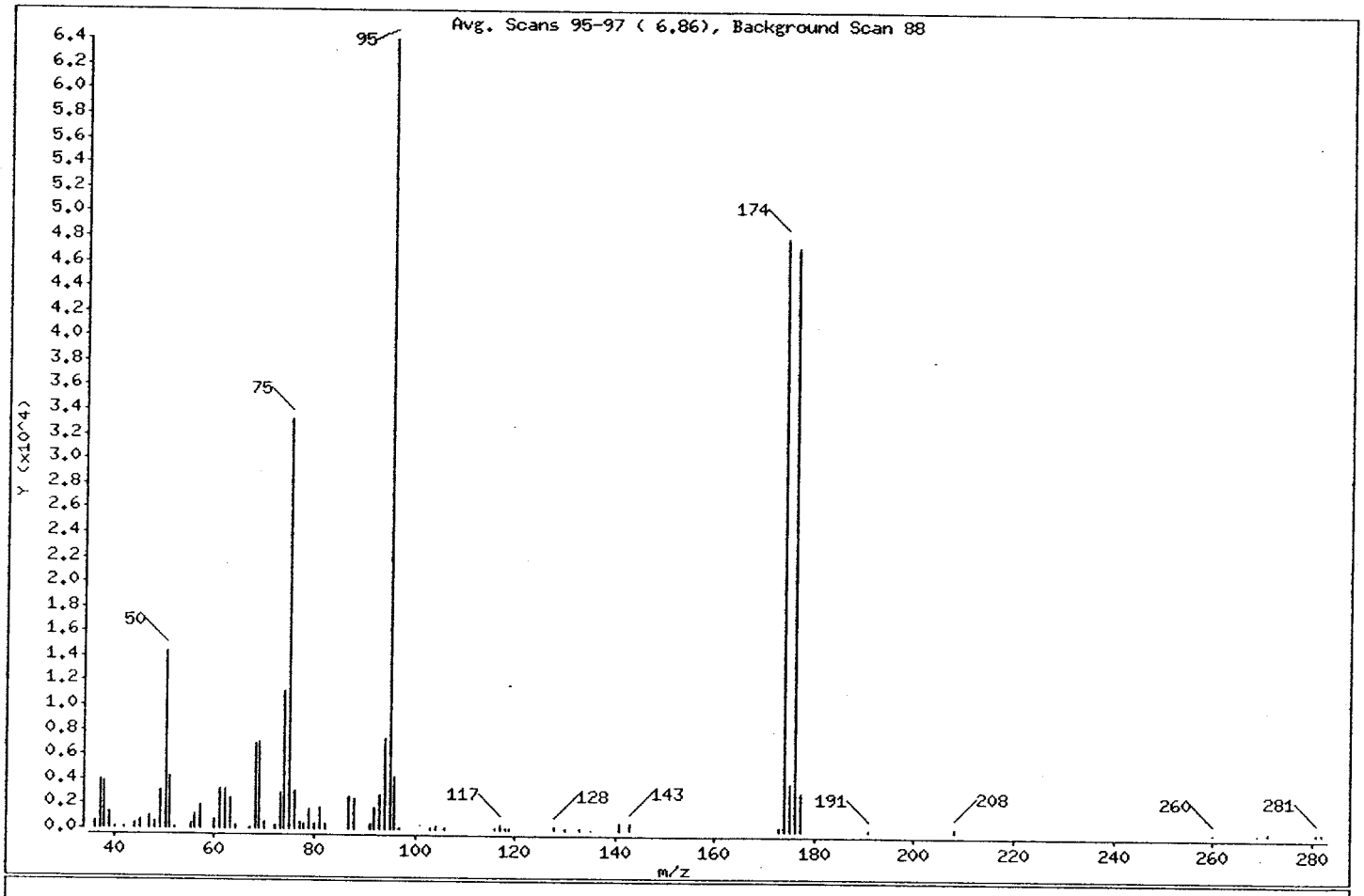
Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.42
75	30.00 - 60.00% of mass 95	52.05
96	5.00 - 9.00% of mass 95	6.69
173	Less than 2.00% of mass 174	0.37 (0.49)
174	50.00 - 99.99% of mass 95	74.92
175	5.00 - 9.00% of mass 174	5.89 (7.86)
176	95.01 - 100.99% of mass 174	73.84 (98.56)
177	5.00 - 9.00% of mass 176	4.85 (6.57)

LW 6-5-06

mm 6/6/06

Data File: \\GCMSSERVER\DD\chem\MSVOA07.i\060606.b\GF602.D

Date : 06-JUN-2006 08:31

Client ID: bfb tune std

Instrument: MSVOA07.i

Sample Info: BFB,S2327

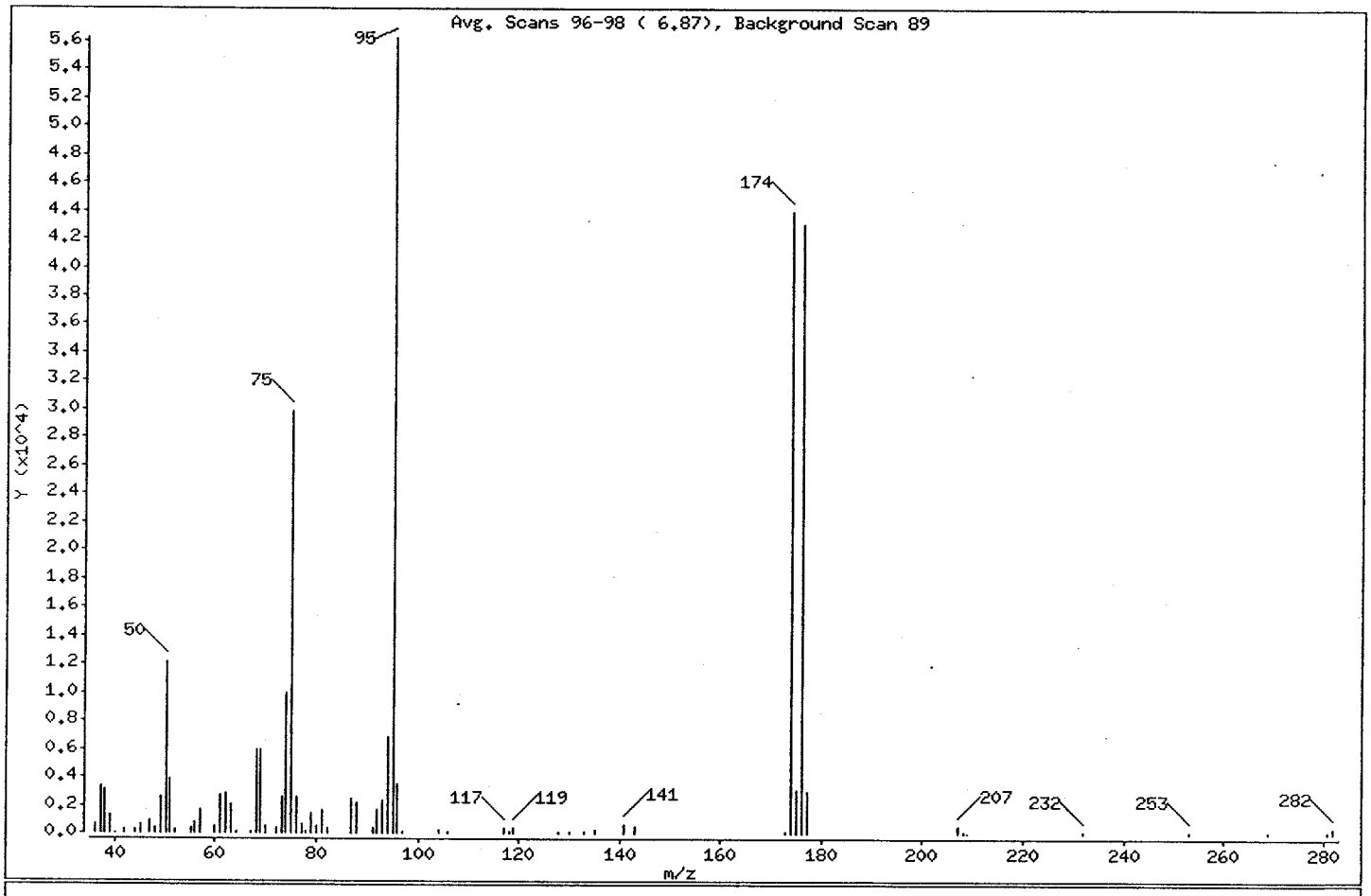
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.54
75	30.00 - 60.00% of mass 95	53.21
96	5.00 - 9.00% of mass 95	6.25
173	Less than 2.00% of mass 174	0.18 (0.23)
174	50.00 - 99.99% of mass 95	78.22
175	5.00 - 9.00% of mass 174	5.63 (7.19)
176	95.01 - 100.99% of mass 174	76.44 (97.73)
177	5.00 - 9.00% of mass 176	5.24 (6.86)

a 06/07/06

67

LW 6-6-06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 8260B

Inst : MSVOA07
Calnum : 466225081002
Units : ug/L

Name : 826GOX7
Date : 05-JUN-2006 14:04
X Axis : R

Reviewer: MCH
Type : WATER

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	gf513	466225081013	0.25/0.5 PPB	05-JUN-2006 14:04	S3592 (2000000X), S3536 (1000000X), S3570 (5000X)
L2	gf514	466225081014	0.5/1.0 PPB	05-JUN-2006 14:35	S3592 (1000000X), S3536 (500000X), S2864 (1000000X), S3570 (5000X)
L3	gf515	466225081015	2 PPB	05-JUN-2006 15:06	S3592 (250000X), S3536 (250000X), S2864 (500000X), S3570 (5000X)
L4	gf516	466225081016	5 PPB	05-JUN-2006 15:38	S3592 (100000X), S3536 (100000X), S2864 (200000X), S3570 (5000X)
L5	gf517	466225081017	10 PPB	05-JUN-2006 16:09	S3592 (50000X), S3536 (50000X), S2864 (100000X), S3570 (5000X)
L6	gf518	466225081018	20 PPB	05-JUN-2006 16:40	S3592 (25000X), S3536 (25000X), S2864 (50000X), S3570 (5000X)
L7	gf519	466225081019	50 PPB	05-JUN-2006 17:11	S3592 (10000X), S3536 (10000X), S2864 (20000X), S3570 (5000X)
L8	gf520	466225081020	75 PPB	05-JUN-2006 17:43	S3592 (6667X), S3536 (6667X), S2864 (13330X), S3570 (5000X)
L9	gf521	466225081021	100 PPB	05-JUN-2006 18:14	S3592 (5000X), S3536 (5000X), S2864 (10000X), S3570 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.4929	0.4882	0.5196	0.6551	0.6624	0.6688	0.6488	0.6188	AVRG		1.68256		0.5943	13	15	0.050	0.99	
Chloromethane		0.6857	0.6850	0.6621	0.7037	0.7007	0.6834	0.6843	0.6418	AVRG		1.46881		0.6808	3	15	0.10	0.99	
Vinyl Chloride	0.6140	0.4918	0.4600	0.5010	0.5822	0.5972	0.5863	0.5960	0.5601	AVRG		1.80412		0.5543	10	15	0.050	0.99	
Bromomethane		0.3752m	0.3617	0.3421	0.3606	0.3609	0.3473	0.3622	0.3490	AVRG		2.79813		0.3574	3	15	0.050	0.99	
Chloroethane		0.3270	0.3352	0.3981	0.4460	0.3710	0.4396	0.3537	0.3359	AVRG		2.66087		0.3758	13	15	0.050	0.99	
Trichlorofluoromethane		0.6352	0.6266	0.6717	0.8403	0.8485	0.8496	0.8377	0.8070	AVRG		1.30792		0.7646	13	15	0.050	0.99	
Acetone			0.2509	0.2092	0.1998	0.1995	0.2059	0.2110	0.2036	AVRG		4.72986		0.2114	8	15	0.050	0.99	
Freon 113			0.2570	0.3030	0.3708	0.4442	0.4418	0.4245	0.4069	LINR	0.16268	2.38805		0.3783	0.998	15	0.050	0.99	
1,1-Dichloroethene		0.2332	0.3121	0.3305	0.3649	0.3822	0.3921	0.3879	0.3866	LINR	0.39246	2.56685		0.3487	1.000	15	0.050	0.99	
Methylene Chloride			0.5136	0.5184	0.5133	0.5105	0.4958	0.4975	0.4865	AVRG		1.97992		0.5051	2	15	0.050	0.99	
Carbon Disulfide		1.2731	1.3671	1.4495	1.5655	1.6626	1.6708	1.6472	1.6177	AVRG		0.65287		1.5317	10	15	0.050	0.99	
MTBE		1.2548	1.4079	1.4945	1.5414	1.6092	1.6350	1.6800	1.6461	AVRG		0.65205		1.5336	9	15	0.050	0.99	
trans-1,2-Dichloroethene		0.3973	0.4215	0.4355	0.4566	0.4693	0.4706	0.4713	0.4634	AVRG		2.23124		0.4482	6	15	0.050	0.99	
Vinyl Acetate			1.0985	1.2269	1.2955	1.3447	1.4002	1.4461	1.3964	AVRG		0.76018		1.3155	9	15	0.050	0.99	
1,1-Dichloroethane		0.7954	0.8456	0.8976	0.9428	0.9692	0.9484	0.9497	0.9187	AVRG		1.10079		0.9084	7	15	0.10	0.99	
2-Butanone			0.2665	0.2865	0.2909	0.2978	0.3071	0.3229	0.3103	AVRG		3.36220		0.2974	6	15	0.050	0.99	
2,2-Dichloropropane		0.5075	0.5684	0.5955	0.6407	0.6764	0.6797	0.6616	0.6300	AVRG		1.61292		0.6200	10	15	0.050	0.99	
cis-1,2-Dichloroethene		0.4131	0.4591	0.4733	0.4929	0.5171	0.5145	0.5231	0.5105	AVRG		2.04935		0.4880	8	15	0.050	0.99	
Chloroform		0.7755	0.8044	0.8323	0.8676	0.8930	0.8797	0.8771	0.8506	AVRG		1.17987		0.8475	5	15	0.050	0.99	
Bromochloromethane		0.1874m	0.2377	0.2407	0.2397	0.2466	0.2473	0.2515	0.2511	AVRG		4.20609		0.2378	9	15	0.050	0.99	
1,1,1-Trichloroethane		0.4965	0.6009	0.6167	0.7006	0.7587	0.7683	0.7468	0.7252	AVRG		1.47777		0.6767	14	15	0.050	0.99	
1,1-Dichloropropene		0.2671m	0.3195	0.3435	0.3905	0.4400	0.4534	0.4495	0.4387	LINR	0.52778	2.23712		0.3878	0.999	15	0.050	0.99	
Carbon Tetrachloride		0.2432m	0.2721	0.3001	0.3544	0.4033	0.4139	0.4066	0.3962	LINR	0.48455	2.47285		0.3487	0.999	15	0.050	0.99	
1,2-Dichloroethane		0.4421	0.4673	0.4957	0.4923	0.5037	0.4970	0.4960	0.4768	AVRG		2.06672		0.4839	4	15	0.050	0.99	

466225081002

Reprint - av 06/08/06

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.1745	1.2141	1.2643	1.3247	1.3558	1.3568	1.3651	1.3398	AVRG		0.76959		1.2994	6	15	0.050	0.99	
Trichloroethene		0.2244	0.2586	0.2681	0.2912	0.3122	0.3172	0.3167	0.3086	AVRG		3.48272		0.2871	12	15	0.050	0.99	
1,2-Dichloropropane		0.3092	0.3371	0.3431	0.3534	0.3631	0.3739	0.3798	0.3689	AVRG		2.82826		0.3536	7	15	0.050	0.99	
Bromodichloromethane		0.2928	0.3450	0.3568	0.3791	0.4012	0.4144	0.4232	0.4146	AVRG		2.64287		0.3784	12	15	0.050	0.99	
Dibromomethane		0.1438m	0.1766	0.1891	0.1958	0.2008	0.2029	0.2064	0.2017	AVRG		5.27294		0.1896	11	15	0.050	0.99	
2-Chloroethylvinylether		0.0830	0.1058	0.1271	0.1316	0.1525	0.1796	0.2027	0.1820	LINR	1.98563	5.18252		0.1455	0.994	15	0.050	0.99	
4-Methyl-2-Pentanone			0.3173	0.3543	0.3650	0.3996	0.4269	0.4542	0.4437	AVRG		2.53542		0.3944	13	15	0.050	0.99	
Tetramethyl THF		0.6001	0.6516	0.7217	0.7498	0.7930	0.8119	0.8313	0.8074	AVRG		1.34075		0.7459	11	15	0.050	0.99	
cis-1,3-Dichloropropene		0.4213	0.4437	0.4651	0.5102	0.5362	0.5559	0.5658	0.5554	AVRG		1.97352		0.5067	11	15	0.050	0.99	
Toluene		0.6640	0.7180	0.7119	0.7757	0.8408	0.8533	0.8590	0.8384	AVRG		1.27774		0.7826	10	15	0.050	0.99	
trans-1,3-Dichloropropene		0.3780	0.4096	0.4321	0.4606	0.4906	0.5197	0.5329	0.5237	AVRG		2.13495		0.4684	12	15	0.050	0.99	
1,1,2-Trichloroethane		0.1328m	0.1403	0.1500	0.1549	0.1638	0.1614	0.1653	0.1611	AVRG		6.50638		0.1537	8	15	0.050	0.99	
2-Hexanone			0.2242	0.2516	0.2581	0.2871	0.3158	0.3370	0.3332	AVRG		3.48775		0.2867	15	15	0.050	0.99	
1,3-Dichloropropane		0.5018	0.5494	0.5666	0.5751	0.6063	0.6027	0.6163	0.5995	AVRG		1.73249		0.5772	7	15	0.050	0.99	
Tetrachloroethene		0.2279	0.2591	0.2627	0.3142	0.3512	0.3593	0.3528	0.3461	LINR	0.44589	2.84067		0.3092	0.999	15	0.050	0.99	
Dibromochloromethane		0.1989	0.2252	0.2538	0.2666	0.2876	0.3089	0.3217	0.3187	QUAD	0.87520	3.22309	-0.00413	0.2727	1.000	15	0.050	0.99	
1,2-Dibromoethane		0.2214	0.2491	0.2666	0.2790	0.2929	0.3029	0.3158	0.3113	AVRG		3.57302		0.2799	12	15	0.050	0.99	
Chlorobenzene		0.8750	0.8825	0.8834	0.9469	0.9872	0.9872	0.9928	0.9755	AVRG		1.06235		0.9413	6	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.2547	0.2700	0.2792	0.3043	0.3263	0.3398	0.3473	0.3435	AVRG		3.24536		0.3081	12	15	0.050	0.99	
Ethylbenzene		1.4019	1.3340	1.3490	1.5744	1.7328	1.7861	1.7779	1.7267	AVRG		0.63078		1.5853	12	15	0.050	0.99	
m,p-Xylenes	0.5033	0.4793	0.5066	0.5203	0.6133	0.6798	0.7050	0.7113	0.6971	LINR	1.22396	1.41330		0.6018	1.000	15	0.050	0.99	
o-Xylene		0.5010	0.5094	0.5155	0.5835	0.6436	0.6728	0.6805	0.6676	AVRG		1.67581		0.5967	13	15	0.050	0.99	
Styrene		0.7229	0.7846	0.8459	0.9777	1.0914	1.1698	1.2058	1.1907	QUAD	1.10678	0.83917	-0.00011	0.9986	1.000	15	0.050	0.99	
Bromoform	0.1567m	0.1642	0.1613	0.1676	0.1849	0.2087	0.2313	0.2487	0.2507	QUAD	0.87906	4.45359	-0.02113	0.1971	0.999	15	0.10	0.99	
Isopropylbenzene		1.8260	1.9418	2.0318	2.4736	2.8150	2.8971	2.8399	2.7711	LINR	0.50609	0.35358		2.4495	0.999	15	0.050	0.99	
1,1,2,2-Tetrachloroethane		0.6925	0.7191	0.7501	0.7539	0.7834	0.7908	0.8090	0.7914	AVRG		1.31359		0.7613	5	15	0.30	0.99	
1,2,3-Trichloropropane		0.8531	0.7932	0.7848	0.7857	0.8159	0.8092	0.8240	0.8097	AVRG		1.23543		0.8094	3	15	0.050	0.99	
Propylbenzene		2.5538	2.6333	2.7046	3.2913	3.7104	3.7840	3.7342	3.6280	LINR	0.43847	0.26999		3.2550	0.999	15	0.050	0.99	
Bromobenzene		0.6910	0.6637	0.6749	0.7132	0.7503	0.7574	0.7737	0.7676	AVRG		1.38125		0.7240	6	15	0.050	0.99	
1,3,5-Trimethylbenzene		1.7387	1.8173	1.8779	2.2570	2.5559	2.6476	2.6355	2.5811	LINR	0.68247	0.38039		2.2639	1.000	15	0.050	0.99	
2-Chlorotoluene		2.0737	1.9823	2.0238	2.2772	2.4761	2.5019	2.4891	2.4206	AVRG		0.43848		2.2806	10	15	0.050	0.99	
4-Chlorotoluene		1.9879	1.8995	1.9218	2.1235	2.2958	2.2998	2.2938	2.2116	AVRG		0.46966		2.1292	8	15	0.050	0.99	
tert-Butylbenzene		1.4244	1.4067	1.4558	1.8518	2.1592	2.2449	2.2024	2.1507	LINR	0.69182	0.45481		1.8620	0.999	15	0.050	0.99	
1,2,4-Trimethylbenzene		1.9430	1.9454	1.9830	2.3660	2.6404	2.7241	2.7122	2.6327	AVRG		0.42223		2.3684	15	15	0.050	0.99	
sec-Butylbenzene		1.7942	1.9627	2.0857	2.7755	3.3030	3.4299	3.3500	3.2381	LINR	0.68618	0.30038		2.7424	0.999	15	0.050	0.99	
para-Isopropyl Toluene		1.6566	1.6998	1.7554	2.3515	2.8218	2.9289	2.8940	2.8120	LINR	0.84150	0.34673		2.3650	0.999	15	0.050	0.99	
1,3-Dichlorobenzene		1.3580	1.3300	1.2788	1.4182	1.5082	1.5040	1.5113	1.4837	AVRG		0.70224		1.4240	6	15	0.050	0.99	
1,4-Dichlorobenzene		1.4857	1.4484	1.4009	1.4900	1.5743	1.5818	1.5811	1.5560	AVRG		0.66016		1.5148	5	15	0.050	0.99	
n-Butylbenzene		1.5794	1.5330	1.5953	2.1465	2.6423	2.7936	2.7474	2.6648	LINR	0.96330	0.36485		2.2128	0.999	15	0.050	0.99	
1,2-Dichlorobenzene		1.2356	1.3262	1.3056	1.3691	1.4609	1.4571	1.4731	1.4463	AVRG		0.72242		1.3842	6	15	0.050	0.99	
1,2-Dibromo-3-Chloropropane		0.1387	0.1644	0.1589	0.1459	0.1613	0.1721	0.1831	0.1830	AVRG		6.11947		0.1634	10	15	0.050	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,2,4-Trichlorobenzene		0.8456	0.8979	0.9012	1.0172	1.1420	1.1939	1.2207	1.2019	AVRG		0.95009		1.0525	15	15	0.050	0.99	
Hexachlorobutadiene		0.2528	0.2547	0.2594	0.3942	0.4931	0.5198	0.5093	0.4956	LINR	1.08452	1.96022		0.3974	0.999	15	0.050	0.99	
Naphthalene		1.3709	1.7708	2.0783	2.3451	2.7631	3.0064	3.1609		QUAD	0.94971	0.35653	-0.00019	2.3565	1.000	15	0.050	0.99	
1,2,3-Trichlorobenzene		0.8045	0.8650	0.8920	1.0148	1.1217	1.1694	1.1947	1.1656	AVRG		0.97233		1.0285	15	15	0.050	0.99	
tert-Butyl Alcohol (TBA)		0.0428	0.0484	0.0519	0.0473	0.0481	0.0525	0.0566	0.0569	AVRG		19.7772		0.0506	10	15	0.005	0.99	
Isopropyl Ether (DIPE)		1.5311	1.6371	1.7583	1.8385	1.8982	1.9428	1.9499	1.8963	AVRG		0.55355		1.8065	8	15	0.050	0.99	
Ethyl tert-Butyl Ether (ETBE)		1.3266	1.4190	1.5462	1.6089	1.6918	1.7310	1.7595	1.7207	AVRG		0.62482		1.6005	10	15	0.050	0.99	
Methyl tert-Amyl Ether (TAME)		0.7868	0.8182	0.8843	0.9109	0.9528	0.9843	1.0181	0.9999	AVRG		1.08763		0.9194	9	15	0.050	0.99	
Cyclohexanone			0.0689	0.0698	0.0471	0.0773	0.0947	0.0959	0.0933	LINR	24.8820	10.2916		0.0781	0.998	15	0.005	0.99	
Ethanol		0.0065	0.0070	0.0074	0.0069	0.0070	0.0072	0.0073	0.0074	AVRG		141.046		0.0071	4	15	0.0005	0.99	
Isopropanol			0.0335	0.0349	0.0327	0.0316	0.0343	0.0360	0.0363	AVRG		29.2594		0.0342	5	15	0.005	0.99	
Tetrahydrofuran		0.2080	0.1925	0.1999	0.2004	0.2068	0.2080	0.2163	0.2071	AVRG		4.88111		0.2049	3	15	0.005	0.99	
Dibromofluoromethane	0.4591	0.4618	0.4610	0.4639	0.4671	0.4641	0.4654	0.4594	0.4534	AVRG		2.16597		0.4617	1	15	0.050	0.99	
1,2-Dichloroethane-d4	0.4288	0.4342	0.4336	0.4338	0.4367	0.4348	0.4358	0.4307	0.4198	AVRG		2.31468		0.4320	1	15	0.050	0.99	
Trifluorotoluene	0.3559	0.2673	0.3342	0.3665	0.4426	0.5046	0.5209	0.5084	0.5036	LINR	0.52837	1.95775		0.4227	1.000	15	0.050	0.99	
Toluene-d8	1.1754	1.1739	1.1777	1.1755	1.1815	1.1882	1.1927	1.1923	1.1787	AVRG		0.84620		1.1818	1	15	0.050	0.99	
Bromofluorobenzene	0.9717	0.9786	0.9548	0.9628	0.9461	0.9576	0.9445	0.9375	0.9320	AVRG		1.04827		0.9540	2	15	0.050	0.99	

AMK 06/08/06 : ???

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m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression; QUAD=Quadratic regression

466225081002

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA07 IDF : 1.0
Seqnum : 466225081022 File : gf522 Time : 05-JUN-2006 18:45
Cal : 466225081002 Caldate: 05-JUN-2006 Caltype: WATER
Standards: S3600 (10000X), S3570 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	0.5943	0.4725	25.00	19.87	ug/L	**-21**	30	!v-
Chloromethane	0.6808	0.5604	25.00	20.58	ug/L	-18	30	
Vinyl Chloride	0.5543	0.5148	25.00	23.22	ug/L	-7	20	
Bromomethane	0.3574	0.3039	25.00	21.26	ug/L	-15	30	
Chloroethane	0.3758	0.3190	25.00	21.22	ug/L	-15	30	
Trichlorofluoromethane	0.7646	0.7498	25.00	24.52	ug/L	-2	30	

ISTD (ICAL gf519)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	607783	680583	11.98	10.11	10.12	0.01
1,4-Difluorobenzene	941686	1049134	11.41	11.27	11.26	-0.01
1,4-Dichlorobenzene-d4	531127	538916	1.47	18.09	18.09	0.00

LW 6-7-06

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CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 8260B

Inst : MSVOA07 IDF : 1.0
Seqnum : 466225081023 File : gf523 Time : 05-JUN-2006 19:17
Cal : 466225081002 Caldate: 05-JUN-2006 Caltype: WATER
Standards: S3391 (10000X), S3604 (10000X), S3570 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Acetone	0.2114	0.1927	25.00	22.78	ug/L	-9	40	
Freon 113	0.3783	0.4293	25.00	25.79	ug/L	3	30	
1,1-Dichloroethene	0.3487	0.4145	25.00	26.99	ug/L	8	20	
Methylene Chloride	0.5051	0.5154	25.00	25.51	ug/L	2	30	
Carbon Disulfide	1.5317	1.5253	25.00	24.90	ug/L	0	30	
MTBE	1.5336	1.4935	25.00	24.35	ug/L	-3	30	
trans-1,2-Dichloroethene	0.4482	0.4810	25.00	26.83	ug/L	7	30	
Vinyl Acetate	1.3155	1.0838	25.00	20.60	ug/L	-18	40	
1,1-Dichloroethane	0.9084	0.9537	25.00	26.25	ug/L	5	30	
2-Butanone	0.2974	0.2828	25.00	23.77	ug/L	-5	40	
2,2-Dichloropropane	0.6200	0.6113	25.00	24.65	ug/L	-1	30	
cis-1,2-Dichloroethene	0.4880	0.5289	25.00	27.10	ug/L	8	30	
Chloroform	0.8475	0.8684	25.00	25.62	ug/L	2	20	
Bromochloromethane	0.2378	0.2463	25.00	25.90	ug/L	4	30	
1,1,1-Trichloroethane	0.6767	0.7527	25.00	27.81	ug/L	11	30	
1,1-Dichloropropene	0.3878	0.4607	25.00	26.29	ug/L	5	30	
Carbon Tetrachloride	0.3487	0.4078	25.00	25.69	ug/L	3	30	
1,2-Dichloroethane	0.4839	0.4956	25.00	25.61	ug/L	2	30	
Benzene	1.2994	1.3682	25.00	26.32	ug/L	5	30	
Trichloroethene	0.2871	0.3252	25.00	28.32	ug/L	13	30	
1,2-Dichloropropane	0.3536	0.3584	25.00	25.34	ug/L	1	20	
Bromodichloromethane	0.3784	0.4253	25.00	28.10	ug/L	12	30	
Dibromomethane	0.1896	0.2005	25.00	26.43	ug/L	6	30	
2-Chloroethylvinylether	0.1455	0.1517	25.00	21.64	ug/L	-13	40	
4-Methyl-2-Pentanone	0.3944	0.3860	25.00	24.46	ug/L	-2	40	
Tetramethyl THF	0.7459	0.5668	25.00	19.00	ug/L	**-24**	30	!v-
cis-1,3-Dichloropropene	0.5067	0.5374	25.00	26.51	ug/L	6	30	
Toluene	0.7826	0.8309	25.00	26.54	ug/L	6	20	
trans-1,3-Dichloropropene	0.4684	0.4664	25.00	24.89	ug/L	0	30	
1,1,2-Trichloroethane	0.1537	0.1639	25.00	26.66	ug/L	7	30	
2-Hexanone	0.2867	0.2842	25.00	24.78	ug/L	-1	40	
1,3-Dichloropropane	0.5772	0.6214	25.00	26.91	ug/L	8	30	
Tetrachloroethene	0.3092	0.3591	25.00	25.95	ug/L	4	30	
Dibromochloromethane	0.2727	0.3099	25.00	25.60	ug/L	2	30	
1,2-Dibromoethane	0.2799	0.2997	25.00	26.77	ug/L	7	30	
Chlorobenzene	0.9413	1.0013	25.00	26.59	ug/L	6	30	
1,1,1,2-Tetrachloroethane	0.3081	0.3346	25.00	27.14	ug/L	9	30	
Ethylbenzene	1.5853	1.7489	25.00	27.58	ug/L	10	20	
m,p-Xylenes	0.6018	0.6927	50.00	50.17	ug/L	0	30	
o-Xylene	0.5967	0.6700	25.00	28.07	ug/L	12	30	
Styrene	0.9986	1.1133	25.00	24.38	ug/L	-2	30	
Bromoform	0.1971	0.2168	25.00	24.40	ug/L	-2	30	
Isopropylbenzene	2.4495	2.7314	25.00	24.65	ug/L	-1	30	
1,1,2,2-Tetrachloroethane	0.7613	0.8031	25.00	26.37	ug/L	5	30	
1,2,3-Trichloropropane	0.8094	0.8197	25.00	25.32	ug/L	1	30	
Propylbenzene	3.2550	3.8371	25.00	26.34	ug/L	5	30	
Bromobenzene	0.7240	0.7601	25.00	26.25	ug/L	5	30	
1,3,5-Trimethylbenzene	2.2639	2.5966	25.00	25.38	ug/L	2	30	
2-Chlorotoluene	2.2806	2.7285	25.00	27.83	ug/L	11	30	

466225081023

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
4-Chlorotoluene	2.1292	2.3231	25.00	27.28	ug/L	9	30	
tert-Butylbenzene	1.8620	2.2602	25.00	26.39	ug/L	6	30	
1,2,4-Trimethylbenzene	2.3684	2.6627	25.00	28.11	ug/L	12	30	
sec-Butylbenzene	2.7424	3.4644	25.00	26.70	ug/L	7	30	
para-Isopropyl Toluene	2.3650	2.7657	25.00	24.82	ug/L	-1	30	
1,3-Dichlorobenzene	1.4240	1.5125	25.00	26.55	ug/L	6	30	
1,4-Dichlorobenzene	1.5148	1.5967	25.00	26.35	ug/L	5	30	
n-Butylbenzene	2.2128	2.6746	25.00	25.36	ug/L	1	30	
1,2-Dichlorobenzene	1.3842	1.4888	25.00	26.89	ug/L	8	30	
1,2-Dibromo-3-Chloropropane	0.1634	0.1630	25.00	24.94	ug/L	0	30	
1,2,4-Trichlorobenzene	1.0525	1.1361	25.00	26.99	ug/L	8	30	
Hexachlorobutadiene	0.3974	0.5277	25.00	26.94	ug/L	8	30	
Naphthalene	2.3565	2.8310	25.00	25.24	ug/L	1	30	
1,2,3-Trichlorobenzene	1.0285	1.1392	25.00	27.69	ug/L	11	30	
tert-Butyl Alcohol (TBA)	0.0506	0.0517	125.0	127.8	ug/L	2	30	
Isopropyl Ether (DIPE)	1.8065	1.8392	25.00	25.45	ug/L	2	30	
Ethyl tert-Butyl Ether (ETBE)	1.6005	1.6438	25.00	25.68	ug/L	3	30	
Methyl tert-Amyl Ether (TAME)	0.9194	0.9832	25.00	26.73	ug/L	7	30	
Cyclohexanone	0.0781	0.0235	250.0	85.42	ug/L	-66	30	v- ***
Ethanol	0.0071	0.0070	2500	2457	ug/L	2	30	
Isopropanol	0.0342	0.0337	250.0	246.3	ug/L	-1	30	
Tetrahydrofuran	0.2049	0.2113	250.0	257.8	ug/L	3	30	

ISTD (ICAL gf519)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	607783	654195	7.64	10.11	10.12	0.01
1,4-Difluorobenzene	941686	1002871	6.50	11.27	11.27	0.01
Chlorobenzene-d5	885132	928069	4.85	15.37	15.37	0.01
1,4-Dichlorobenzene-d4	531127	539236	1.53	18.09	18.09	0.00

LW 6-7-06

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Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF513.D
Report Date: 07-Jun-2006 07:41

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF513.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 05-JUN-2006 14:04 MS Autotune Date: 25-MAY-2006 16:01
Operator : LW Inst ID: MSVOA07.i
Smp Info : ICAL,S3592,0.0005/1000,S3536,0.001/1000,
Misc Info : 0.25/0.5 PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\826GOX7.m
Meth Date : 07-Jun-2006 07:40 lara Quant Type: ISTD
Cal Date : 05-JUN-2006 14:04 Cal File: GF513.D
Als bottle: 13 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.195	4.195	(0.415)	3984	0.50000	0.5628
2 Chloromethane	50	4.590	4.590	(0.454)	5005	0.50000	0.6173
3 Vinyl Chloride	62	4.791	4.791	(0.474)	3656	0.50000	0.5538
4 Bromomethane	94	5.448	5.448	(0.539)	2868	0.50000	0.6738
5 Chloroethane	64	5.612	5.612	(0.555)	2573	0.50000	0.5749
6 Trichlorofluoromethane	101	5.996	5.996	(0.593)	4922	0.50000	0.5405
7 Ethanol	45	6.251	6.251	(0.618)	1993	25.0000	23.6051(A)
8 Freon 113	101	6.762	6.762	(0.669)	694	0.25000	0.3018(a)
9 1,1-Dichloroethene	96	6.853	6.853	(0.678)	880	0.25000	0.5821
10 Acetone	43	6.957	6.957	(0.688)	1749	0.25000	0.6946
11 Isopropanol	45	7.030	7.030	(0.695)	895	2.50000	2.1990(A)
12 Carbon Disulfide	76	7.273	7.273	(0.720)	4947	0.25000	0.2712(a)
13 Methylene Chloride	84	7.620	7.620	(0.754)	2362	0.25000	0.3927(aM)
14 tert-Butyl Alcohol (TBA)	59	7.620	7.620	(0.754)	1028	2.50000	1.7072(AM)
15 MTBE	73	7.888	7.888	(0.780)	4035	0.25000	0.2209(a)
16 trans-1,2-Dichloroethene	96	7.973	7.973	(0.789)	1225	0.25000	0.2295(a)
17 Isopropyl Ether (DIPE)	45	8.526	8.526	(0.844)	4832	0.25000	0.2246(aA)
18 Vinyl Acetate	43	8.593	8.593	(0.850)	3101	0.25000	0.1979(a)
19 1,1-Dichloroethane	63	8.636	8.636	(0.854)	2336	0.25000	0.2159(a)
20 Ethyl tert-Butyl Ether (ETBE)	59	9.050	9.050	(0.895)	3908	0.25000	0.2050(aA)
21 2-Butanone	43	9.445	9.445	(0.934)	613	0.25000	0.1730(a)
22 2,2-Dichloropropane	77	9.469	9.469	(0.937)	1915	0.25000	0.2593(a)

LW 6-7-06

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF513.D
Report Date: 07-Jun-2006 07:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23	cis-1,2-Dichloroethene	96	9.475	9.475	(0.937)	1318	0.25000	0.2268(aM)
24	Bromochloromethane	128	9.853	9.853	(0.975)	213	0.25000	0.0752(aM)
25	Tetrahydrofuran	42	9.865	9.865	(0.976)	7350	2.50000	3.0126(A)
26	Chloroform	83	9.895	9.895	(0.979)	2250	0.25000	0.2229(a)
* 27	Pentafluorobenzene	168	10.108	10.108	(1.000)	595429	50.0000	
28	Dibromofluoromethane	113	10.145	10.145	(1.004)	273336	50.0000	49.7153
29	1,1,1-Trichloroethane	97	10.205	10.205	(1.010)	1634	0.25000	0.2027(a)
30	Carbon Tetrachloride	117	10.406	10.406	(0.924)	1302	0.25000	0.6599(M)
31	1,1-Dichloropropene	75	10.424	10.424	(0.925)	1481	0.25000	0.7083
32	1,2-Dichloroethane-d4	65	10.716	10.716	(0.951)	393432	50.0000	49.6249
33	Benzene	78	10.741	10.741	(0.954)	5733	0.25000	0.2404(a)
34	Methyl tert-Amyl Ether (TAME)	73	10.747	10.747	(0.954)	3599	0.25000	0.2133(aA)
35	1,2-Dichloroethane	62	10.832	10.832	(0.962)	1963	0.25000	0.2210(a)
* 36	1,4-Difluorobenzene	114	11.264	11.264	(1.000)	917550	50.0000	
37	Trichloroethene	95	11.678	11.678	(1.037)	1222	0.25000	0.2319(a)
38	Trifluorotoluene	146	12.049	12.049	(1.070)	1633	0.25000	0.7025(A)
39	1,2-Dichloropropane	63	12.085	12.085	(1.073)	1111	0.25000	0.1712(a)
40	Dibromomethane	93	12.286	12.286	(1.091)	381	0.25000	0.1094(a)
41	Bromodichloromethane	83	12.432	12.432	(1.104)	1279	0.25000	0.1841(a)
43	Tetramethyl THF	43	13.028	13.028	(1.157)	2825	0.25000	0.2063(aA)
44	cis-1,3-Dichloropropene	75	13.077	13.077	(1.161)	1758	0.25000	0.1890(a)
45	4-Methyl-2-Pentanone	43	13.211	13.211	(1.173)	1426	0.25000	0.1970(a)
46	Toluene-d8	98	13.418	13.418	(1.191)	1078523	50.0000	49.7325
47	Toluene	92	13.515	13.515	(1.200)	3564	0.25000	0.2481(a)
48	trans-1,3-Dichloropropene	75	13.837	13.837	(1.228)	1659	0.25000	0.1930(a)
49	1,1,2-Trichloroethane	85	14.099	14.099	(1.252)	208	0.25000	0.0737(a)
50	Tetrachloroethene	166	14.233	14.233	(0.926)	1054	0.25000	0.6212
51	2-Hexanone	43	14.342	14.342	(0.933)	851	0.25000	0.1737(a)
52	1,3-Dichloropropane	76	14.354	14.354	(0.934)	2220	0.25000	0.2252(a)
53	Dibromochloromethane	129	14.628	14.628	(0.952)	575	0.25000	0.9837
54	1,2-Dibromoethane	107	14.847	14.847	(1.318)	889	0.25000	0.1730(aM)
* 55	Chlorobenzene-d5	117	15.364	15.364	(1.000)	853908	50.0000	
56	Chlorobenzene	112	15.407	15.407	(1.003)	3586	0.25000	0.2230(a)
57	Ethylbenzene	91	15.462	15.462	(1.006)	6013	0.25000	0.2220(a)
58	1,1,1,2-Tetrachloroethane	131	15.492	15.492	(1.008)	1069	0.25000	0.2031(aM)
59	m,p-Xylenes	106	15.595	15.595	(1.015)	4298	0.50000	1.5796
60	o-Xylene	106	16.106	16.106	(1.048)	2260	0.25000	0.2217(a)
61	Styrene	104	16.119	16.119	(1.049)	3017	0.25000	1.2550
62	Bromoform	173	16.423	16.423	(1.069)	669	0.25000	1.0534(M)
63	Isopropylbenzene	105	16.502	16.502	(0.912)	5133	0.25000	0.6964
64	Cyclohexanone	55	16.757	16.757	(0.926)	3060	2.50000	28.1856(AM)
65	Bromofluorobenzene	95	16.763	16.763	(0.927)	463153	50.0000	50.9311
66	1,1,2,2-Tetrachloroethane	83	16.903	16.903	(0.934)	1654	0.25000	0.2279(a)
67	Bromobenzene	156	16.970	16.970	(0.938)	1495	0.25000	0.2166(a)
68	Propylbenzene	91	16.976	16.976	(0.938)	6888	0.25000	0.6335
69	1,2,3-Trichloropropane	75	16.989	16.989	(0.939)	1938	0.25000	0.2511(a)
70	2-Chlorotoluene	91	17.153	17.153	(0.948)	5588	0.25000	0.2570(a)
71	1,3,5-Trimethylbenzene	105	17.159	17.159	(0.949)	4483	0.25000	0.8613
72	4-Chlorotoluene	91	17.275	17.275	(0.955)	4733	0.25000	0.2331(a)
73	tert-Butylbenzene	119	17.536	17.536	(0.969)	3775	0.25000	0.8719
74	1,2,4-Trimethylbenzene	105	17.597	17.597	(0.973)	4520	0.25000	0.2002(a)
75	sec-Butylbenzene	105	17.786	17.786	(0.983)	4772	0.25000	0.8365
76	para-Isopropyl Toluene	119	17.919	17.919	(0.991)	4567	0.25000	1.0076
77	1,3-Dichlorobenzene	146	18.011	18.011	(0.996)	3086	0.25000	0.2273(a)

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Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF513.D
Report Date: 07-Jun-2006 07:41

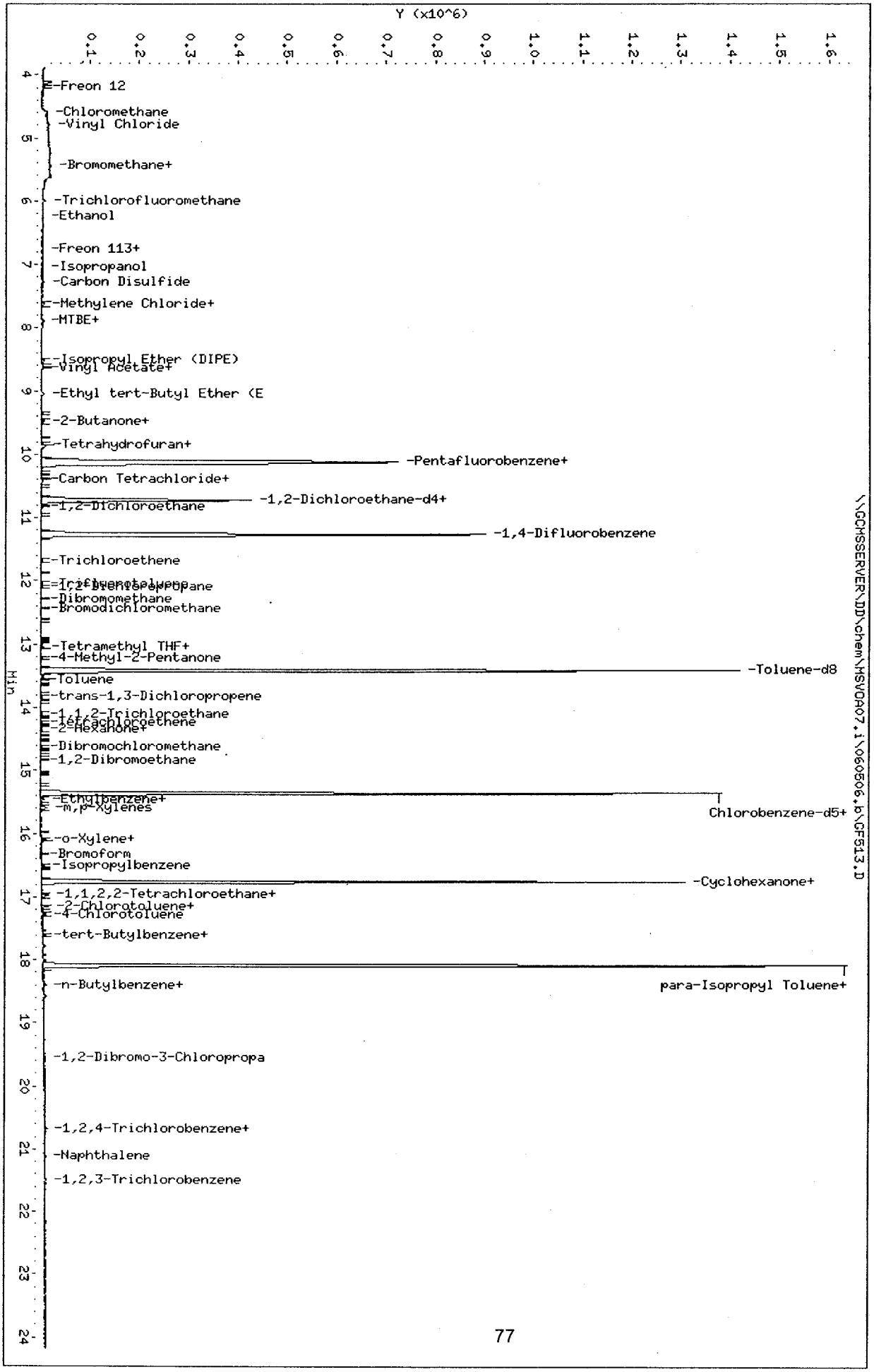
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 78 1,4-Dichlorobenzene-d4	152	18.090	18.090	(1.000)	476634	50.0000	
79 1,4-Dichlorobenzene	146	18.120	18.120	(1.002)	3592	0.25000	0.2487(a)
80 n-Butylbenzene	91	18.400	18.400	(1.017)	4581	0.25000	1.1386
81 1,2-Dichlorobenzene	146	18.589	18.589	(1.028)	3337	0.25000	0.2528(a)
82 1,2-Dibromo-3-Chloropropane	75	19.550	19.550	(1.081)	253	0.25000	0.1624(a)
83 1,2,4-Trichlorobenzene	180	20.681	20.681	(1.143)	1673	0.25000	0.1667(a)
84 Hexachlorobutadiene	225	20.809	20.809	(1.150)	310	0.25000	1.1482
85 Naphthalene	128	21.113	21.113	(1.167)	2686	0.25000	1.0501
86 1,2,3-Trichlorobenzene	180	21.490	21.490	(1.188)	1523	0.25000	0.1553(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSVOA07.i\060506.b\GF513.D
Date : 05-JUN-2006 14:04
Client ID: DYNA P&T
Sample Info: ICAL,S3592,0.0005/1000,S3536,0.001/1000,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA07.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF514.D
Report Date: 07-Jun-2006 07:41

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF514.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 05-JUN-2006 14:35 MS Autotune Date: 25-MAY-2006 16:01
Operator : LW Inst ID: MSVOA07.i
Smp Info : ICAL,S3592,0.001/1000,S3536,0.002/1000,
Misc Info : S2864,0.001/1000,0.5/1.0 PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\826GOX7.m
Meth Date : 07-Jun-2006 07:41 lara Quant Type: ISTD
Cal Date : 05-JUN-2006 14:35 Cal File: GF514.D
Als bottle: 14 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.189	4.189	(0.414)	5770	1.00000	0.8294
2 Chloromethane	50	4.590	4.590	(0.454)	8026	1.00000	1.0071
3 Vinyl Chloride	62	4.797	4.797	(0.474)	5757	1.00000	0.8873
4 Bromomethane	94	5.448	5.448	(0.539)	4392	1.00000	1.0499(M)
5 Chloroethane	64	5.619	5.619	(0.556)	3828	1.00000	0.8701
6 Trichlorofluoromethane	101	5.990	5.990	(0.592)	7435	1.00000	0.8307
7 Ethanol	45	6.263	6.263	(0.619)	3799	50.0000	45.7770(A)
8 Freon 113	101	6.756	6.756	(0.668)	813	0.50000	0.3285(aM)
9 1,1-Dichloroethene	96	6.853	6.853	(0.678)	1365	0.50000	0.6917
10 Acetone	43	6.951	6.951	(0.687)	2453	0.50000	0.9912
11 Isopropanol	45	7.048	7.048	(0.697)	1965	5.00000	4.9118(AM)
12 Carbon Disulfide	76	7.267	7.267	(0.719)	7451	0.50000	0.4155(a)
13 Methylene Chloride	84	7.626	7.626	(0.754)	3528	0.50000	0.5967
14 tert-Butyl Alcohol (TBA)	59	7.620	7.620	(0.753)	2505	5.00000	4.2324(A)
15 MTBE	73	7.894	7.894	(0.780)	7344	0.50000	0.4091(a)
16 trans-1,2-Dichloroethene	96	7.967	7.967	(0.788)	2325	0.50000	0.4431(a)
17 Isopropyl Ether (DIPE)	45	8.533	8.533	(0.844)	8961	0.50000	0.4237(aA)
18 Vinyl Acetate	43	8.587	8.587	(0.849)	5604	0.50000	0.3639(a)
19 1,1-Dichloroethane	63	8.648	8.648	(0.855)	4655	0.50000	0.4377(a)
20 Ethyl tert-Butyl Ether (ETBE)	59	9.050	9.050	(0.895)	7764	0.50000	0.4144(aA)
21 2-Butanone	43	9.469	9.469	(0.936)	1398	0.50000	0.4015(a)
22 2,2-Dichloropropane	77	9.469	9.469	(0.936)	2970	0.50000	0.4092(a)

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Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF514.D
Report Date: 07-Jun-2006 07:41

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 cis-1,2-Dichloroethene	96	9.482	9.482	(0.937)	2418	0.50000	0.4233(a)
24 Bromochloromethane	128	9.859	9.859	(0.975)	1097	0.50000	0.3941(aM)
25 Tetrahydrofuran	42	9.859	9.859	(0.975)	12174	5.00000	5.0765(A)
26 Chloroform	83	9.895	9.895	(0.978)	4539	0.50000	0.4575(a)
* 27 Pentafluorobenzene	168	10.114	10.114	(1.000)	585264	50.0000	
28 Dibromofluoromethane	113	10.145	10.145	(1.003)	270269	50.0000	50.0112
29 1,1,1-Trichloroethane	97	10.199	10.199	(1.008)	2906	0.50000	0.3668(a)
30 Carbon Tetrachloride	117	10.412	10.412	(0.924)	2187	0.50000	0.7852(M)
31 1,1-Dichloropropene	75	10.431	10.431	(0.926)	2402	0.50000	0.8265(M)
32 1,2-Dichloroethane-d4	65	10.717	10.717	(0.951)	390437	50.0000	50.2521
33 Benzene	78	10.747	10.747	(0.954)	10561	0.50000	0.4519(a)
34 Methyl tert-Amyl Ether (TAME)	73	10.759	10.759	(0.955)	7075	0.50000	0.4278(aA)
35 1,2-Dichloroethane	62	10.832	10.832	(0.962)	3975	0.50000	0.4568(a)
* 36 1,4-Difluorobenzene	114	11.264	11.264	(1.000)	899200	50.0000	
37 Trichloroethene	95	11.678	11.678	(1.037)	2018	0.50000	0.3907(a)
38 Trifluorotoluene	146	12.049	12.049	(1.070)	2404	0.50000	0.7900(A)
39 1,2-Dichloropropane	63	12.091	12.091	(1.073)	2780	0.50000	0.4371(a)
40 Dibromomethane	93	12.280	12.280	(1.090)	1293	0.50000	0.3791(aM)
41 Bromodichloromethane	83	12.438	12.438	(1.104)	2633	0.50000	0.3869(a)
42 2-Chloroethylvinylether	63	12.791	12.791	(1.136)	1492	1.00000	2.4155
43 Tetramethyl THF	43	13.028	13.028	(1.157)	5396	0.50000	0.4022(aA)
44 cis-1,3-Dichloropropene	75	13.071	13.071	(1.160)	3788	0.50000	0.4156(a)
45 4-Methyl-2-Pentanone	43	13.217	13.217	(1.173)	2761	0.50000	0.3892(a)
46 Toluene-d8	98	13.418	13.418	(1.191)	1055554	50.0000	49.6666
47 Toluene	92	13.515	13.515	(1.200)	5971	0.50000	0.4242(a)
48 trans-1,3-Dichloropropene	75	13.831	13.831	(1.228)	3399	0.50000	0.4035(a)
49 1,1,2-Trichloroethane	85	14.099	14.099	(1.252)	1194	0.50000	0.4319(aM)
50 Tetrachloroethene	166	14.239	14.239	(0.927)	1907	0.50000	0.7696
51 2-Hexanone	43	14.330	14.330	(0.933)	1645	0.50000	0.3428(a)
52 1,3-Dichloropropane	76	14.348	14.348	(0.934)	4198	0.50000	0.4346(a)
53 Dibromochloromethane	129	14.628	14.628	(0.952)	1664	0.50000	1.1956
54 1,2-Dibromoethane	107	14.829	14.829	(1.316)	1991	0.50000	0.3955(a)
* 55 Chlorobenzene-d5	117	15.364	15.364	(1.000)	836603	50.0000	
56 Chlorobenzene	112	15.407	15.407	(1.003)	7320	0.50000	0.4647(a)
57 Ethylbenzene	91	15.456	15.456	(1.006)	11728	0.50000	0.4421(a)
58 1,1,1,2-Tetrachloroethane	131	15.492	15.492	(1.008)	2131	0.50000	0.4133(a)
59 m,p-Xylenes	106	15.596	15.596	(1.015)	8020	1.00000	1.9013
60 o-Xylene	106	16.107	16.107	(1.048)	4191	0.50000	0.4197(a)
61 Styrene	104	16.119	16.119	(1.049)	6048	0.50000	1.4100
62 Bromoform	173	16.423	16.423	(1.069)	1374	0.50000	1.2446
63 Isopropylbenzene	105	16.502	16.502	(0.912)	8493	0.50000	0.8289
64 Cyclohexanone	55	16.733	16.733	(0.925)	4206	5.00000	29.5354(A)
65 Bromofluorobenzene	95	16.764	16.764	(0.927)	455135	50.0000	51.2900
66 1,1,2,2-Tetrachloroethane	83	16.897	16.897	(0.934)	3221	0.50000	0.4548(a)
67 Bromobenzene	156	16.970	16.970	(0.938)	3214	0.50000	0.4772(a)
68 Propylbenzene	91	16.970	16.970	(0.938)	11878	0.50000	0.7832
69 1,2,3-Trichloropropane	75	16.995	16.995	(0.939)	3968	0.50000	0.5269
70 2-Chlorotoluene	91	17.147	17.147	(0.948)	9645	0.50000	0.4546(a)
71 1,3,5-Trimethylbenzene	105	17.159	17.159	(0.949)	8087	0.50000	1.0131
72 4-Chlorotoluene	91	17.269	17.269	(0.955)	9246	0.50000	0.4668(a)
73 tert-Butylbenzene	119	17.536	17.536	(0.969)	6625	0.50000	1.0157
74 1,2,4-Trimethylbenzene	105	17.603	17.603	(0.973)	9037	0.50000	0.4102(a)
75 sec-Butylbenzene	105	17.786	17.786	(0.983)	8345	0.50000	0.9556
76 para-Isopropyl Toluene	119	17.926	17.926	(0.991)	7705	0.50000	1.1287

VW 6-7-06

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF514.D
Report Date: 07-Jun-2006 07:41

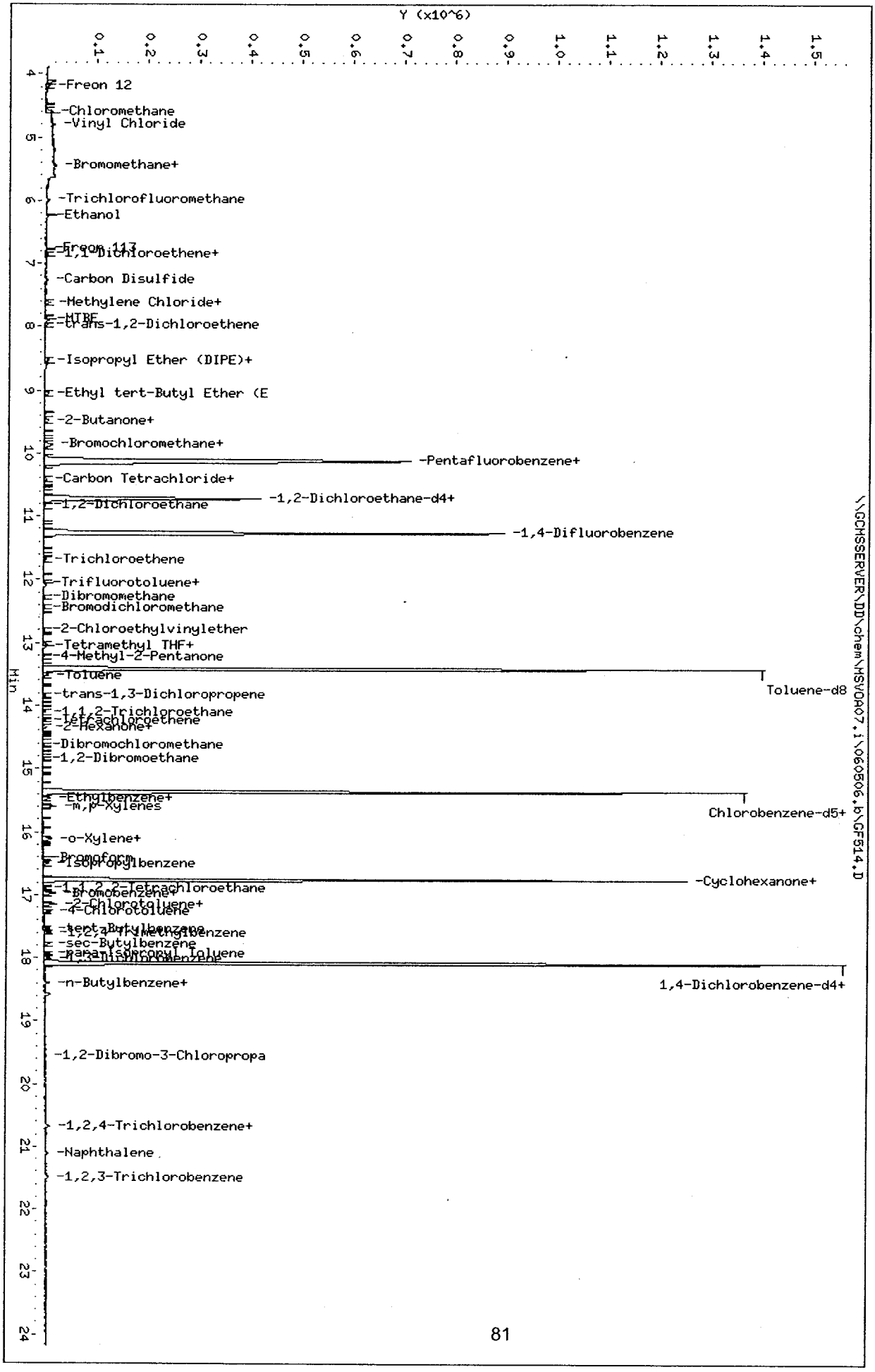
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.011	18.011	(0.996)	6316	0.50000	0.4768(a)
* 78 1,4-Dichlorobenzene-d4	152	18.090	18.090	(1.000)	465105	50.0000	
79 1,4-Dichlorobenzene	146	18.114	18.114	(1.001)	6910	0.50000	0.4903(a)
80 n-Butylbenzene	91	18.400	18.400	(1.017)	7346	0.50000	1.2514
81 1,2-Dichlorobenzene	146	18.583	18.583	(1.027)	5747	0.50000	0.4463(a)
82 1,2-Dibromo-3-Chloropropane	75	19.556	19.556	(1.081)	645	0.50000	0.4243(a)
83 1,2,4-Trichlorobenzene	180	20.675	20.675	(1.143)	3933	0.50000	0.4017(a)
84 Hexachlorobutadiene	225	20.791	20.791	(1.149)	1176	0.50000	1.3323
85 Naphthalene	128	21.107	21.107	(1.167)	6376	0.50000	1.1939
86 1,2,3-Trichlorobenzene	180	21.497	21.497	(1.188)	3742	0.50000	0.3911(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSVOA07.i\060506.b\GF514.D
Date : 05-JUN-2006 14:35
Client ID: DYNA P&T
Sample Info: ICAL,S3592,0.001/1000,S3536,0.002/1000,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA07.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF515.D
Report Date: 07-Jun-2006 07:42

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF515.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 05-JUN-2006 15:06 MS Autotune Date: 25-MAY-2006 16:01
Operator : LW Inst ID: MSVOA07.i
Smp Info : ICAL,S3592,0.002/500,S3536,0.002/500,
Misc Info : S2864,0.001/500,2 PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\826GOX7.m
Meth Date : 07-Jun-2006 07:42 lara Quant Type: ISTD
Cal Date : 05-JUN-2006 15:06 Cal File: GF515.D
Als bottle: 15 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.195	4.195	(0.415)	11122	2.00000	1.6427
2 Chloromethane	50	4.596	4.596	(0.454)	15605	2.00000	2.0121
3 Vinyl Chloride	62	4.797	4.797	(0.474)	10480	2.00000	1.6597
4 Bromomethane	94	5.454	5.454	(0.539)	8241	2.00000	2.0242
5 Chloroethane	64	5.612	5.612	(0.555)	7636	2.00000	1.7836
6 Trichlorofluoromethane	101	5.996	5.996	(0.593)	14275	2.00000	1.6390
7 Ethanol	45	6.257	6.257	(0.619)	16015	200.000	198.2955(A)
8 Freon 113	101	6.762	6.762	(0.669)	5855	2.00000	1.3901
9 1,1-Dichloroethene	96	6.853	6.853	(0.678)	7110	2.00000	1.9945
10 Acetone	43	6.963	6.963	(0.688)	5717	2.00000	2.3737
11 Isopropanol	45	7.036	7.036	(0.696)	7625	20.0000	19.5853(A)
12 Carbon Disulfide	76	7.267	7.267	(0.719)	31147	2.00000	1.7851
13 Methylene Chloride	84	7.626	7.626	(0.754)	11701	2.00000	2.0337
14 tert-Butyl Alcohol (TBA)	59	7.626	7.626	(0.754)	11021	20.0000	19.1342(A)
15 MTBE	73	7.894	7.894	(0.780)	32075	2.00000	1.8359
16 trans-1,2-Dichloroethene	96	7.979	7.979	(0.789)	9604	2.00000	1.8811
17 Isopropyl Ether (DIPE)	45	8.526	8.526	(0.843)	37298	2.00000	1.8124(A)
18 Vinyl Acetate	43	8.593	8.593	(0.850)	25027	2.00000	1.6701
19 1,1-Dichloroethane	63	8.636	8.636	(0.854)	19266	2.00000	1.8617
20 Ethyl tert-Butyl Ether (ETBE)	59	9.050	9.050	(0.895)	32328	2.00000	1.7732(A)
21 2-Butanone	43	9.451	9.451	(0.934)	6072	2.00000	1.7921
22 2,2-Dichloropropane	77	9.463	9.463	(0.936)	12950	2.00000	1.8336

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF515.D
Report Date: 07-Jun-2006 07:42

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 cis-1,2-Dichloroethene	96	9.481	9.481	(0.937)	10460	2.00000	1.8817
24 Bromochloromethane	128	9.853	9.853	(0.974)	5416	2.00000	1.9997
25 Tetrahydrofuran	42	9.865	9.865	(0.975)	43848	20.0000	18.7886(A)
26 Chloroform	83	9.889	9.889	(0.978)	18327	2.00000	1.8982
* 27 Pentafluorobenzene	168	10.114	10.114	(1.000)	569566	50.0000	
28 Dibromofluoromethane	113	10.145	10.145	(1.003)	262591	50.0000	49.9297
29 1,1,1-Trichloroethane	97	10.199	10.199	(1.008)	13689	2.00000	1.7758
30 Carbon Tetrachloride	117	10.412	10.412	(0.924)	9587	2.00000	1.8304
31 1,1-Dichloropropene	75	10.424	10.424	(0.925)	11254	2.00000	1.9571
32 1,2-Dichloroethane-d4	65	10.716	10.716	(0.951)	381882	50.0000	50.1835
33 Benzene	78	10.747	10.747	(0.954)	42769	2.00000	1.8686
34 Methyl tert-Amyl Ether (TAME)	73	10.759	10.759	(0.955)	28825	2.00000	1.7798(A)
35 1,2-Dichloroethane	62	10.832	10.832	(0.962)	16463	2.00000	1.9316
* 36 1,4-Difluorobenzene	114	11.264	11.264	(1.000)	880700	50.0000	
37 Trichloroethene	95	11.684	11.684	(1.037)	9111	2.00000	1.8014
38 Trifluorotoluene	146	12.049	12.049	(1.070)	11773	2.00000	1.8369(A)
39 1,2-Dichloropropane	63	12.091	12.091	(1.073)	11877	2.00000	1.9070
40 Dibromomethane	93	12.280	12.280	(1.090)	6221	2.00000	1.8623
41 Bromodichloromethane	83	12.438	12.438	(1.104)	12152	2.00000	1.8233
42 2-Chloroethylvinylether	63	12.797	12.797	(1.136)	3727	2.00000	3.0822
43 Tetramethyl THF	43	13.040	13.040	(1.158)	22956	2.00000	1.7473(A)
44 cis-1,3-Dichloropropene	75	13.071	13.071	(1.160)	15630	2.00000	1.7512
45 4-Methyl-2-Pentanone	43	13.223	13.223	(1.174)	11177	2.00000	1.6088
46 Toluene-d8	98	13.418	13.418	(1.191)	1037221	50.0000	49.8292
47 Toluene	92	13.509	13.509	(1.199)	25293	2.00000	1.8347
48 trans-1,3-Dichloropropene	75	13.837	13.837	(1.228)	14428	2.00000	1.7487
49 1,1,2-Trichloroethane	85	14.099	14.099	(1.252)	4942	2.00000	1.8255
50 Tetrachloroethene	166	14.239	14.239	(0.927)	8500	2.00000	1.9181
51 2-Hexanone	43	14.336	14.336	(0.933)	7355	2.00000	1.5641
52 1,3-Dichloropropane	76	14.354	14.354	(0.934)	18021	2.00000	1.9037
53 Dibromochloromethane	129	14.622	14.622	(0.952)	7388	2.00000	2.3263
54 1,2-Dibromoethane	107	14.841	14.841	(1.318)	8777	2.00000	1.7804
* 55 Chlorobenzene-d5	117	15.364	15.364	(1.000)	820008	50.0000	
56 Chlorobenzene	112	15.401	15.401	(1.002)	28945	2.00000	1.8749
57 Ethylbenzene	91	15.462	15.462	(1.006)	43754	2.00000	1.6828
58 1,1,1,2-Tetrachloroethane	131	15.492	15.492	(1.008)	8857	2.00000	1.7526
59 m,p-Xylenes	106	15.602	15.602	(1.015)	33231	4.00000	4.0876
60 o-Xylene	106	16.106	16.106	(1.048)	16707	2.00000	1.7071
61 Styrene	104	16.125	16.125	(1.049)	25736	2.00000	2.4233
62 Bromoform	173	16.423	16.423	(1.069)	5292	2.00000	2.3139
63 Isopropylbenzene	105	16.502	16.502	(0.912)	36454	2.00000	1.8792
64 Cyclohexanone	55	16.733	16.733	(0.925)	12939	20.0000	39.0684(A)
65 Bromofluorobenzene	95	16.764	16.764	(0.927)	448118	50.0000	50.0445
66 1,1,2,2-Tetrachloroethane	83	16.897	16.897	(0.934)	13500	2.00000	1.8892
67 Bromobenzene	156	16.970	16.970	(0.938)	12460	2.00000	1.8334
68 Propylbenzene	91	16.976	16.976	(0.938)	49435	2.00000	1.8603
69 1,2,3-Trichloropropane	75	16.989	16.989	(0.939)	14890	2.00000	1.9597
70 2-Chlorotoluene	91	17.147	17.147	(0.948)	37214	2.00000	1.7383
71 1,3,5-Trimethylbenzene	105	17.159	17.159	(0.949)	34117	2.00000	2.0650
72 4-Chlorotoluene	91	17.268	17.268	(0.955)	35660	2.00000	1.7842
73 tert-Butylbenzene	119	17.536	17.536	(0.969)	26409	2.00000	1.9714
74 1,2,4-Trimethylbenzene	105	17.597	17.597	(0.973)	36521	2.00000	1.6428
75 sec-Butylbenzene	105	17.786	17.786	(0.983)	36846	2.00000	1.8652
76 para-Isopropyl Toluene	119	17.925	17.925	(0.991)	31911	2.00000	2.0202

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF515.D
Report Date: 07-Jun-2006 07:42

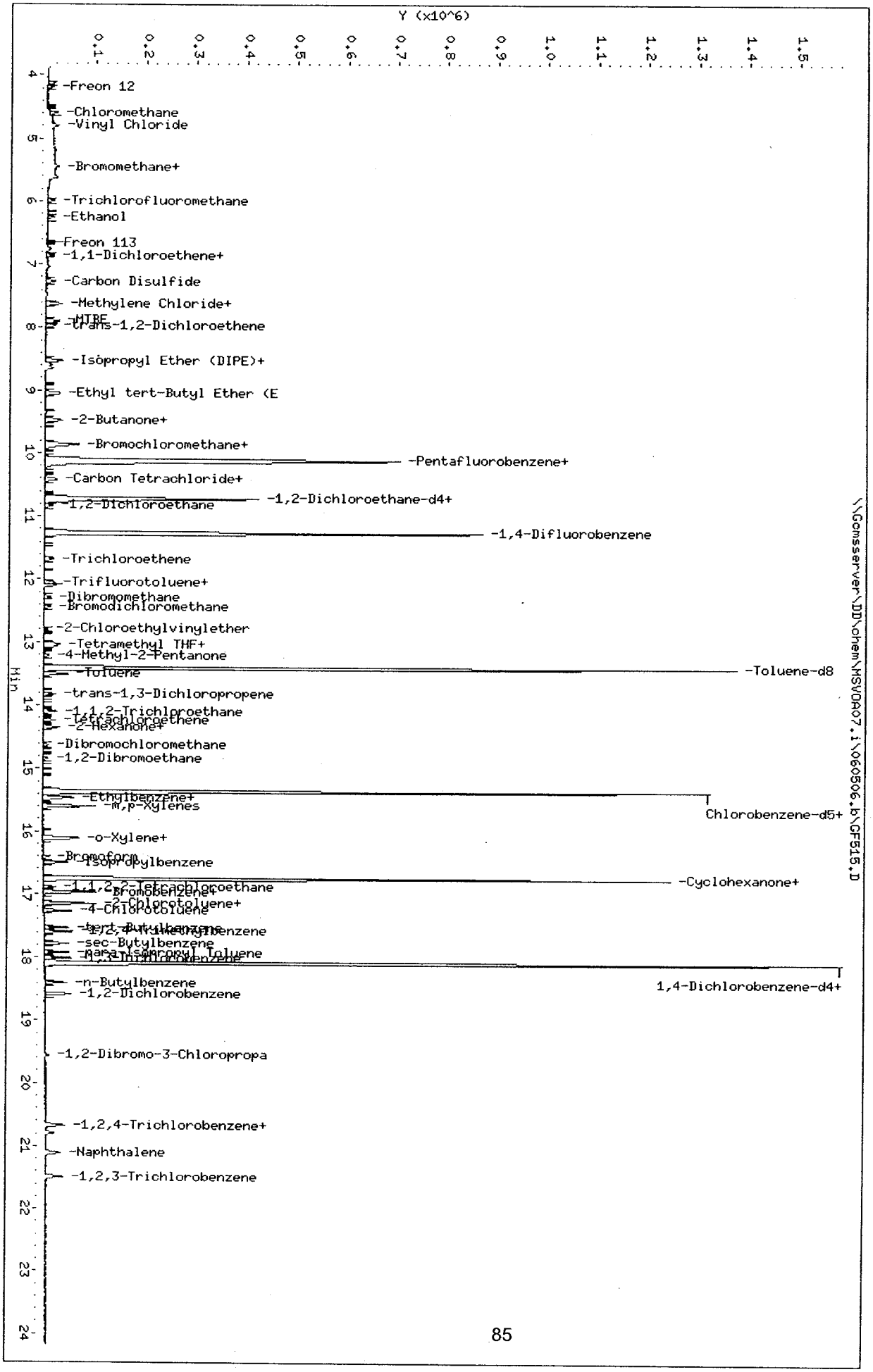
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.011	18.011	(0.996)	24969	2.00000	1.8679
* 78 1,4-Dichlorobenzene-d4	152	18.090	18.090	(1.000)	469331	50.0000	
79 1,4-Dichlorobenzene	146	18.114	18.114	(1.001)	27192	2.00000	1.9123
80 n-Butylbenzene	91	18.406	18.406	(1.017)	28780	2.00000	2.0819
81 1,2-Dichlorobenzene	146	18.582	18.582	(1.027)	24898	2.00000	1.9162
82 1,2-Dibromo-3-Chloropropane	75	19.556	19.556	(1.081)	3086	2.00000	2.0118
83 1,2,4-Trichlorobenzene	180	20.675	20.675	(1.143)	16856	2.00000	1.7061
84 Hexachlorobutadiene	225	20.803	20.803	(1.150)	4782	2.00000	2.0831
85 Naphthalene	128	21.107	21.107	(1.167)	33244	2.00000	2.2100
86 1,2,3-Trichlorobenzene	180	21.490	21.490	(1.188)	16239	2.00000	1.6821

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF515.D
Date : 05-JUN-2006 15:06
Client ID: DYNA P&T
Sample Info: ICAL,S3592,0.002/500,S3536,0.002/500,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA07.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF516.D
Report Date: 07-Jun-2006 07:43

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF516.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 05-JUN-2006 15:38 MS Autotune Date: 25-MAY-2006 16:01
Operator : LW Inst ID: MSVOA07.i
Smp Info : ICAL,S3592,0.002/200,S3536,0.002/200,
Misc Info : S2864,0.001/200,5 PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\826GOX7.m
Meth Date : 07-Jun-2006 07:43 lara Quant Type: ISTD
Cal Date : 05-JUN-2006 15:38 Cal File: GF516.D
Als bottle: 16 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.189	4.189	(0.414)	30189	5.00000	4.3713
2 Chloromethane	50	4.590	4.590	(0.454)	38467	5.00000	4.8623
3 Vinyl Chloride	62	4.797	4.797	(0.474)	29110	5.00000	4.5196
4 Bromomethane	94	5.448	5.448	(0.539)	19875	5.00000	4.7859
5 Chloroethane	64	5.612	5.612	(0.555)	23131	5.00000	5.2967
6 Trichlorofluoromethane	101	5.996	5.996	(0.593)	39027	5.00000	4.3927
7 Ethanol	45	6.257	6.257	(0.619)	42743	500.000	518.8225(A)
8 Freon 113	101	6.762	6.762	(0.669)	17606	5.00000	3.7809
9 1,1-Dichloroethene	96	6.853	6.853	(0.678)	19200	5.00000	4.6337
10 Acetone	43	6.951	6.951	(0.687)	12153	5.00000	4.9468
11 Isopropanol	45	7.030	7.030	(0.695)	20274	50.0000	51.0503(A)
12 Carbon Disulfide	76	7.267	7.267	(0.719)	84214	5.00000	4.7315
13 Methylene Chloride	84	7.620	7.620	(0.753)	30117	5.00000	5.1316
14 tert-Butyl Alcohol (TBA)	59	7.626	7.626	(0.754)	30178	50.0000	51.3627(A)
15 MTBE	73	7.894	7.894	(0.780)	86833	5.00000	4.8725
16 trans-1,2-Dichloroethene	96	7.973	7.973	(0.788)	25301	5.00000	4.8582
17 Isopropyl Ether (DIPE)	45	8.526	8.526	(0.843)	102156	5.00000	4.8664(A)
18 Vinyl Acetate	43	8.593	8.593	(0.850)	71281	5.00000	4.6632
19 1,1-Dichloroethane	63	8.642	8.642	(0.854)	52153	5.00000	4.9405
20 Ethyl tert-Butyl Ether (ETBE)	59	9.050	9.050	(0.895)	89837	5.00000	4.8306(A)
21 2-Butanone	43	9.457	9.457	(0.935)	16647	5.00000	4.8167
22 2,2-Dichloropropane	77	9.469	9.469	(0.936)	34601	5.00000	4.8028

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF516.D
Report Date: 07-Jun-2006 07:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23	cis-1,2-Dichloroethene	96	9.488	9.488	(0.938)	27496	5.00000	4.8493
24	Bromochloromethane	128	9.859	9.859	(0.975)	13984	5.00000	5.0617
25	Tetrahydrofuran	42	9.865	9.865	(0.975)	116121	50.0000	48.7779(A)
26	Chloroform	83	9.895	9.895	(0.978)	48355	5.00000	4.9098
* 27	Pentafluorobenzene	168	10.114	10.114	(1.000)	581000	50.0000	
28	Dibromofluoromethane	113	10.145	10.145	(1.003)	269534	50.0000	50.2412
29	1,1,1-Trichloroethane	97	10.193	10.193	(1.008)	35828	5.00000	4.5564
30	Carbon Tetrachloride	117	10.406	10.406	(0.924)	26894	5.00000	4.1948
31	1,1-Dichloropropene	75	10.424	10.424	(0.925)	30788	5.00000	4.3703
32	1,2-Dichloroethane-d4	65	10.716	10.716	(0.951)	388816	50.0000	50.2094
33	Benzene	78	10.747	10.747	(0.954)	113311	5.00000	4.8650
34	Methyl tert-Amyl Ether (TAME)	73	10.759	10.759	(0.955)	79257	5.00000	4.8091(A)
35	1,2-Dichloroethane	62	10.832	10.832	(0.962)	44422	5.00000	5.1218
* 36	1,4-Difluorobenzene	114	11.264	11.264	(1.000)	896229	50.0000	
37	Trichloroethene	95	11.678	11.678	(1.037)	24029	5.00000	4.6687
38	Trifluorotoluene	146	12.049	12.049	(1.070)	32845	5.00000	4.1157(A)
39	1,2-Dichloropropane	63	12.091	12.091	(1.073)	30748	5.00000	4.8516
40	Dibromomethane	93	12.286	12.286	(1.091)	16952	5.00000	4.9868
41	Bromodichloromethane	83	12.438	12.438	(1.104)	31976	5.00000	4.7146
42	2-Chloroethylvinylether	63	12.797	12.797	(1.136)	11392	5.00000	5.2793
43	Tetramethyl THF	43	13.034	13.034	(1.157)	64680	5.00000	4.8380(A)
44	cis-1,3-Dichloropropene	75	13.071	13.071	(1.160)	41688	5.00000	4.5898
45	4-Methyl-2-Pentanone	43	13.217	13.217	(1.173)	31749	5.00000	4.4908
46	Toluene-d8	98	13.418	13.418	(1.191)	1053501	50.0000	49.7344
47	Toluene	92	13.509	13.509	(1.199)	63806	5.00000	4.5483
48	trans-1,3-Dichloropropene	75	13.837	13.837	(1.228)	38730	5.00000	4.6130
49	1,1,2-Trichloroethane	85	14.105	14.105	(1.252)	13442	5.00000	4.8792
50	Tetrachloroethene	166	14.239	14.239	(0.927)	21835	5.00000	4.1772
51	2-Hexanone	43	14.342	14.342	(0.933)	20908	5.00000	4.3867
52	1,3-Dichloropropane	76	14.354	14.354	(0.934)	47095	5.00000	4.9083
53	Dibromochloromethane	129	14.628	14.628	(0.952)	21091	5.00000	4.9579
54	1,2-Dibromoethane	107	14.835	14.835	(1.317)	23897	5.00000	4.7635
* 55	Chlorobenzene-d5	117	15.364	15.364	(1.000)	831152	50.0000	
56	Chlorobenzene	112	15.407	15.407	(1.003)	73424	5.00000	4.6924
57	Ethylbenzene	91	15.462	15.462	(1.006)	112121	5.00000	4.2545
58	1,1,1,2-Tetrachloroethane	131	15.486	15.486	(1.008)	23204	5.00000	4.5301
59	m,p-Xylenes	106	15.602	15.602	(1.015)	86493	10.0000	8.5776
60	o-Xylene	106	16.107	16.107	(1.048)	42846	5.00000	4.3194
61	Styrene	104	16.125	16.125	(1.049)	70308	5.00000	4.6541
62	Bromoform	173	16.423	16.423	(1.069)	13930	5.00000	4.5963
63	Isopropylbenzene	105	16.502	16.502	(0.912)	96630	5.00000	4.0980
64	Cyclohexanone	55	16.739	16.739	(0.925)	33179	50.0000	60.7803(A)
65	Bromofluorobenzene	95	16.764	16.764	(0.927)	457903	50.0000	50.4633
66	1,1,2,2-Tetrachloroethane	83	16.897	16.897	(0.934)	35674	5.00000	4.9265
67	Bromobenzene	156	16.970	16.970	(0.938)	32100	5.00000	4.6612
68	Propylbenzene	91	16.976	16.976	(0.938)	128630	5.00000	4.0895
69	1,2,3-Trichloropropane	75	16.989	16.989	(0.939)	37323	5.00000	4.8475
70	2-Chlorotoluene	91	17.153	17.153	(0.948)	96250	5.00000	4.4369
71	1,3,5-Trimethylbenzene	105	17.159	17.159	(0.949)	89312	5.00000	4.2540
72	4-Chlorotoluene	91	17.268	17.268	(0.955)	91399	5.00000	4.5128
73	tert-Butylbenzene	119	17.536	17.536	(0.969)	69237	5.00000	4.0023
74	1,2,4-Trimethylbenzene	105	17.597	17.597	(0.973)	94313	5.00000	4.1865
75	sec-Butylbenzene	105	17.786	17.786	(0.983)	99198	5.00000	3.8187
76	para-Isopropyl Toluene	119	17.926	17.926	(0.991)	83486	5.00000	3.8847

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF516.D
Report Date: 07-Jun-2006 07:43

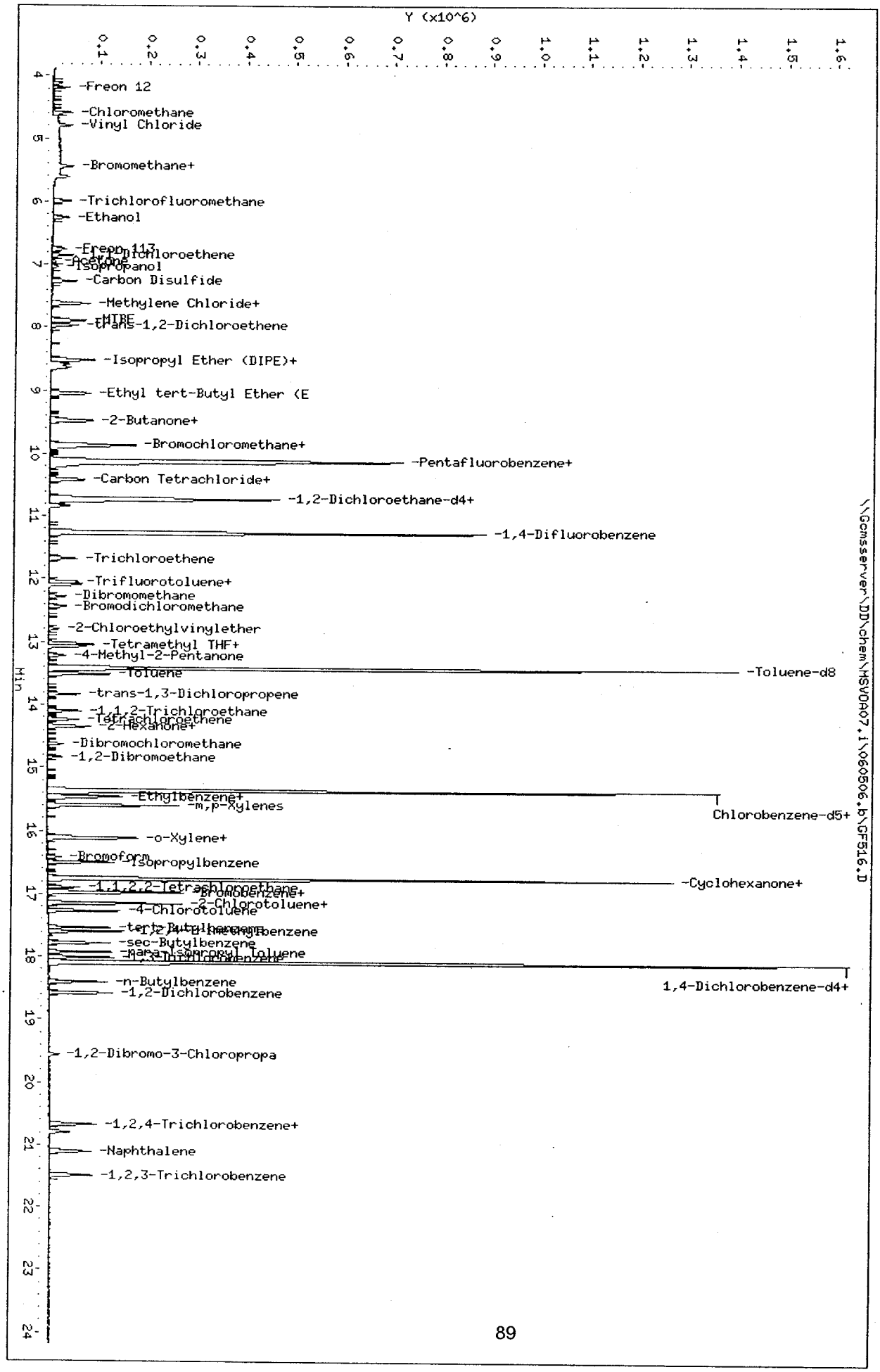
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.011	18.011	(0.996)	60818	5.00000	4.4899
* 78 1,4-Dichlorobenzene-d4	152	18.090	18.090	(1.000)	475599	50.0000	
79 1,4-Dichlorobenzene	146	18.114	18.114	(1.001)	66628	5.00000	4.6241
80 n-Butylbenzene	91	18.406	18.406	(1.017)	75871	5.00000	3.8734
81 1,2-Dichlorobenzene	146	18.583	18.583	(1.027)	62095	5.00000	4.7160
82 1,2-Dibromo-3-Chloropropane	75	19.556	19.556	(1.081)	7558	5.00000	4.8623
83 1,2,4-Trichlorobenzene	180	20.675	20.675	(1.143)	42861	5.00000	4.2811
84 Hexachlorobutadiene	225	20.797	20.797	(1.150)	12337	5.00000	3.6269
85 Naphthalene	128	21.113	21.113	(1.167)	98845	5.00000	4.6343
86 1,2,3-Trichlorobenzene	180	21.490	21.490	(1.188)	42423	5.00000	4.3365

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF516.D
Date : 05-JUN-2006 15:38
Client ID: DYNA P&T
Sample Info: ICAL,S3592,0.002/200,S3536,0.002/200,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA07.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF517.D
Report Date: 07-Jun-2006 07:43

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF517.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 05-JUN-2006 16:09 MS Autotune Date: 25-MAY-2006 16:01
Operator : LW Inst ID: MSVOA07.i
Smp Info : ICAL,S3592,0.002/100,S3536,0.002/100,
Misc Info : S2864,0.001/100,10 PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\826GOX7.m
Meth Date : 07-Jun-2006 07:43 lara Quant Type: ISTD
Cal Date : 05-JUN-2006 16:09 Cal File: GF517.D
Als bottle: 17 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.189	4.189	(0.414)	75192	10.0000	11.0228
2 Chloromethane	50	4.590	4.590	(0.454)	80767	10.0000	10.3359
3 Vinyl Chloride	62	4.797	4.797	(0.474)	66818	10.0000	10.5029
4 Bromomethane	94	5.448	5.448	(0.539)	41386	10.0000	10.0895
5 Chloroethane	64	5.612	5.612	(0.555)	51189	10.0000	11.8672
6 Trichlorofluoromethane	101	5.990	5.990	(0.592)	96441	10.0000	10.9898
7 Ethanol	45	6.257	6.257	(0.619)	79418	1000.00	975.9574(A)
8 Freon 113	101	6.756	6.756	(0.668)	42554	10.0000	9.0166
9 1,1-Dichloroethene	96	6.853	6.853	(0.678)	41882	10.0000	9.7589
10 Acetone	43	6.951	6.951	(0.687)	22929	10.0000	9.4489
11 Isopropanol	45	7.030	7.030	(0.695)	37526	100.000	95.6641(A)
12 Carbon Disulfide	76	7.267	7.267	(0.719)	179685	10.0000	10.2209
13 Methylene Chloride	84	7.626	7.626	(0.754)	58909	10.0000	10.1620
14 tert-Butyl Alcohol (TBA)	59	7.620	7.620	(0.753)	54332	100.000	93.6207(A)
15 MTBE	73	7.894	7.894	(0.780)	176920	10.0000	10.0509
16 trans-1,2-Dichloroethene	96	7.973	7.973	(0.788)	52412	10.0000	10.1889
17 Isopropyl Ether (DIPE)	45	8.526	8.526	(0.843)	211014	10.0000	10.1769(A)
18 Vinyl Acetate	43	8.593	8.593	(0.850)	148687	10.0000	9.8478
19 1,1-Dichloroethane	63	8.642	8.642	(0.854)	108210	10.0000	10.3782
20 Ethyl tert-Butyl Ether (ETBE)	59	9.050	9.050	(0.895)	184662	10.0000	10.0527(A)
21 2-Butanone	43	9.457	9.457	(0.935)	33383	10.0000	9.7791
22 2,2-Dichloropropane	77	9.469	9.469	(0.936)	73537	10.0000	10.3340

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF517.D
Report Date: 07-Jun-2006 07:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.488	9.488	(0.938)	56568	10.0000	10.1003
	24 Bromochloromethane	128	9.859	9.859	(0.975)	27512	10.0000	10.0821
	25 Tetrahydrofuran	42	9.859	9.859	(0.975)	230056	100.000	97.8372(A)
	26 Chloroform	83	9.895	9.895	(0.978)	99581	10.0000	10.2367
*	27 Pentafluorobenzene	168	10.114	10.114	(1.000)	573876	50.0000	
	28 Dibromofluoromethane	113	10.145	10.145	(1.003)	268057	50.0000	50.5862
	29 1,1,1-Trichloroethane	97	10.199	10.199	(1.008)	80409	10.0000	10.3529
	30 Carbon Tetrachloride	117	10.406	10.406	(0.924)	63293	10.0000	9.2492
	31 1,1-Dichloropropene	75	10.425	10.425	(0.925)	69734	10.0000	9.2639
	32 1,2-Dichloroethane-d4	65	10.717	10.717	(0.951)	389943	50.0000	50.5446
	33 Benzene	78	10.747	10.747	(0.954)	236552	10.0000	10.1946
	34 Methyl tert-Amyl Ether (TAME)	73	10.759	10.759	(0.955)	162664	10.0000	9.9073(A)
	35 1,2-Dichloroethane	62	10.832	10.832	(0.962)	87917	10.0000	10.1751
*	36 1,4-Difluorobenzene	114	11.264	11.264	(1.000)	892865	50.0000	
	37 Trichloroethene	95	11.678	11.678	(1.037)	51998	10.0000	10.1411
	38 Trifluorotoluene	146	12.049	12.049	(1.070)	79042	10.0000	9.1939(A)
	39 1,2-Dichloropropane	63	12.091	12.091	(1.073)	63103	10.0000	9.9943
	40 Dibromomethane	93	12.280	12.280	(1.090)	34957	10.0000	10.3221
	41 Bromodichloromethane	83	12.438	12.438	(1.104)	67689	10.0000	10.0179
	42 2-Chloroethylvinylether	63	12.797	12.797	(1.136)	23494	10.0000	8.8040
	43 Tetramethyl THF	43	13.034	13.034	(1.157)	133893	10.0000	10.0528(A)
	44 cis-1,3-Dichloropropene	75	13.071	13.071	(1.160)	91105	10.0000	10.0685
	45 4-Methyl-2-Pentanone	43	13.217	13.217	(1.173)	65171	10.0000	9.2531
	46 Toluene-d8	98	13.418	13.418	(1.191)	1054936	50.0000	49.9897
	47 Toluene	92	13.509	13.509	(1.199)	138516	10.0000	9.9112
	48 trans-1,3-Dichloropropene	75	13.837	13.837	(1.228)	82247	10.0000	9.8331
	49 1,1,2-Trichloroethane	85	14.099	14.099	(1.252)	27653	10.0000	10.0754
	50 Tetrachloroethene	166	14.239	14.239	(0.927)	52140	10.0000	9.3723
	51 2-Hexanone	43	14.336	14.336	(0.933)	42833	10.0000	9.0034
	52 1,3-Dichloropropane	76	14.348	14.348	(0.934)	95421	10.0000	9.9632
	53 Dibromochloromethane	129	14.628	14.628	(0.952)	44236	10.0000	9.4386
	54 1,2-Dibromoethane	107	14.835	14.835	(1.317)	49816	10.0000	9.9675
*	55 Chlorobenzene-d5	117	15.364	15.364	(1.000)	829629	50.0000	
	56 Chlorobenzene	112	15.407	15.407	(1.003)	157118	10.0000	10.0595
	57 Ethylbenzene	91	15.462	15.462	(1.006)	261237	10.0000	9.9311
	58 1,1,1,2-Tetrachloroethane	131	15.486	15.486	(1.008)	50498	10.0000	9.8769
	59 m,p-Xylenes	106	15.602	15.602	(1.015)	203535	20.0000	18.5603
	60 o-Xylene	106	16.107	16.107	(1.048)	96814	10.0000	9.7779
	61 Styrene	104	16.125	16.125	(1.049)	162227	10.0000	9.3008
	62 Bromoform	173	16.423	16.423	(1.069)	30680	10.0000	9.0416
	63 Isopropylbenzene	105	16.502	16.502	(0.912)	240415	10.0000	9.2524
	64 Cyclohexanone	55	16.739	16.739	(0.925)	45731	100.000	73.3067(A)
	65 Bromofluorobenzene	95	16.764	16.764	(0.927)	459738	50.0000	49.5858
	66 1,1,2,2-Tetrachloroethane	83	16.897	16.897	(0.934)	73270	10.0000	9.9028
	67 Bromobenzene	156	16.970	16.970	(0.938)	69319	10.0000	9.8513
	68 Propylbenzene	91	16.977	16.977	(0.938)	319885	10.0000	9.3247
	69 1,2,3-Trichloropropane	75	16.989	16.989	(0.939)	76360	10.0000	9.7063
	70 2-Chlorotoluene	91	17.147	17.147	(0.948)	221325	10.0000	9.9851
	71 1,3,5-Trimethylbenzene	105	17.159	17.159	(0.949)	219360	10.0000	9.2678
	72 4-Chlorotoluene	91	17.269	17.269	(0.955)	206383	10.0000	9.9730
	73 tert-Butylbenzene	119	17.536	17.536	(0.969)	179975	10.0000	9.1137
	74 1,2,4-Trimethylbenzene	105	17.597	17.597	(0.973)	229957	10.0000	9.9901
	75 sec-Butylbenzene	105	17.786	17.786	(0.983)	269752	10.0000	9.0231
	76 para-Isopropyl Toluene	119	17.926	17.926	(0.991)	228547	10.0000	8.9950

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF517.D
Report Date: 07-Jun-2006 07:43

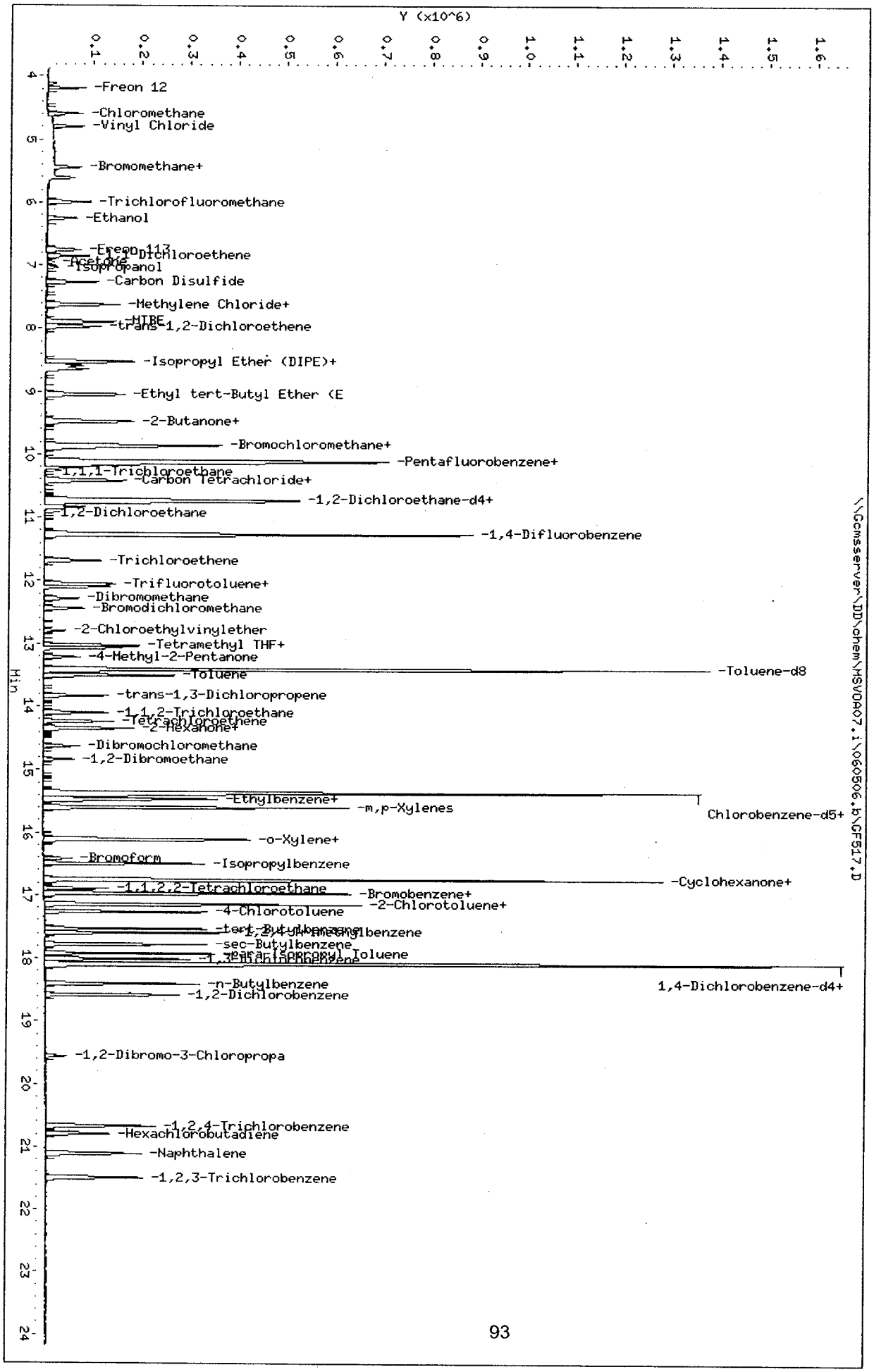
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.011	18.011	(0.996)	137835	10.0000	9.9590
* 78 1,4-Dichlorobenzene-d4	152	18.090	18.090	(1.000)	485955	50.0000	
79 1,4-Dichlorobenzene	146	18.120	18.120	(1.002)	144819	10.0000	9.8366
80 n-Butylbenzene	91	18.406	18.406	(1.017)	208621	10.0000	8.7947
81 1,2-Dichlorobenzene	146	18.583	18.583	(1.027)	133065	10.0000	9.8907
82 1,2-Dibromo-3-Chloropropane	75	19.562	19.562	(1.081)	14184	10.0000	8.9307
83 1,2,4-Trichlorobenzene	180	20.675	20.675	(1.143)	98861	10.0000	9.6641
84 Hexachlorobutadiene	225	20.797	20.797	(1.150)	38308	10.0000	8.8107
85 Naphthalene	128	21.107	21.107	(1.167)	227924	10.0000	9.2071
86 1,2,3-Trichlorobenzene	180	21.491	21.491	(1.188)	98630	10.0000	9.8673

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF517.D
Date : 05-JUN-2006 16:09
Client ID: DYNA P&T
Sample Info: ICAL,S3592,0.002/100,S3536,0.002/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA07.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF518.D
Report Date: 07-Jun-2006 07:44

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF518.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 05-JUN-2006 16:40 MS Autotune Date: 25-MAY-2006 16:01
Operator : LW Inst ID: MSVOA07.i
Smp Info : ICAL,S3592,0.004/100,S3536,0.004/100,
Misc Info : S2864,0.002/100,20 PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\826GOX7.m
Meth Date : 07-Jun-2006 07:44 lara Quant Type: ISTD
Cal Date : 05-JUN-2006 16:40 Cal File: GF518.D
Als bottle: 18 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.189	4.189	(0.414)	153901	20.0000	22.2895
2 Chloromethane	50	4.596	4.596	(0.455)	162813	20.0000	20.5847
3 Vinyl Chloride	62	4.797	4.797	(0.475)	138748	20.0000	21.5467
4 Bromomethane	94	5.448	5.448	(0.539)	83864	20.0000	20.1991
5 Chloroethane	64	5.612	5.612	(0.555)	86200	20.0000	19.7433
6 Trichlorofluoromethane	101	5.990	5.990	(0.593)	197143	20.0000	22.1948
7 Ethanol	45	6.251	6.251	(0.618)	162297	2000.00	1970.4290(A)
8 Freon 113	101	6.756	6.756	(0.668)	103219	20.0000	21.3801
9 1,1-Dichloroethene	96	6.860	6.860	(0.679)	88815	20.0000	20.0159
10 Acetone	43	6.951	6.951	(0.688)	46365	20.0000	18.8768
11 Isopropanol	45	7.036	7.036	(0.696)	73337	200.000	184.7049(A)
12 Carbon Disulfide	76	7.267	7.267	(0.719)	386314	20.0000	21.7098
13 Methylene Chloride	84	7.620	7.620	(0.754)	118606	20.0000	20.2136
14 tert-Butyl Alcohol (TBA)	59	7.620	7.620	(0.754)	111681	200.000	190.1226(A)
15 MTBE	73	7.894	7.894	(0.781)	373898	20.0000	20.9856
16 trans-1,2-Dichloroethene	96	7.973	7.973	(0.789)	109039	20.0000	20.9420
17 Isopropyl Ether (DIPE)	45	8.526	8.526	(0.844)	441046	20.0000	21.0149(A)
18 Vinyl Acetate	43	8.587	8.587	(0.850)	312447	20.0000	20.4448
19 1,1-Dichloroethane	63	8.642	8.642	(0.855)	225199	20.0000	21.3383
20 Ethyl tert-Butyl Ether (ETBE)	59	9.050	9.050	(0.895)	393084	20.0000	21.1411(A)
21 2-Butanone	43	9.451	9.451	(0.935)	69189	20.0000	20.0240
22 2,2-Dichloropropane	77	9.469	9.469	(0.937)	157172	20.0000	21.8212

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF518.D
Report Date: 07-Jun-2006 07:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 cis-1,2-Dichloroethene	96	9.482	9.482	(0.938)	120157	20.0000	21.1960
24 Bromochloromethane	128	9.859	9.859	(0.975)	57295	20.0000	20.7436
25 Tetrahydrofuran	42	9.859	9.859	(0.975)	480393	200.000	201.8392(A)
26 Chloroform	83	9.895	9.895	(0.979)	207495	20.0000	21.0733
* 27 Pentafluorobenzene	168	10.108	10.108	(1.000)	580871	50.0000	
28 Dibromofluoromethane	113	10.145	10.145	(1.004)	269557	50.0000	50.2567
29 1,1,1-Trichloroethane	97	10.199	10.199	(1.009)	176287	20.0000	22.4242
30 Carbon Tetrachloride	117	10.406	10.406	(0.924)	145181	20.0000	20.4292
31 1,1-Dichloropropene	75	10.425	10.425	(0.925)	158408	20.0000	20.2151
32 1,2-Dichloroethane-d4	65	10.717	10.717	(0.951)	391342	50.0000	50.3229
33 Benzene	78	10.747	10.747	(0.954)	488106	20.0000	20.8686
34 Methyl tert-Amyl Ether (TAME)	73	10.759	10.759	(0.955)	343002	20.0000	20.7251(A)
35 1,2-Dichloroethane	62	10.832	10.832	(0.962)	181349	20.0000	20.8217
* 36 1,4-Difluorobenzene	114	11.264	11.264	(1.000)	900016	50.0000	
37 Trichloroethene	95	11.678	11.678	(1.037)	112394	20.0000	21.7460
38 Trifluorotoluene	146	12.049	12.049	(1.070)	181658	20.0000	20.2858(A)
39 1,2-Dichloropropane	63	12.091	12.091	(1.073)	130723	20.0000	20.5395
40 Dibromomethane	93	12.280	12.280	(1.090)	72305	20.0000	21.1807
41 Bromodichloromethane	83	12.438	12.438	(1.104)	144443	20.0000	21.2076
42 2-Chloroethylvinylether	63	12.797	12.797	(1.136)	54901	20.0000	17.7923
43 Tetramethyl THF	43	13.034	13.034	(1.157)	285492	20.0000	21.2647(A)
44 cis-1,3-Dichloropropene	75	13.071	13.071	(1.160)	193052	20.0000	21.1658
45 4-Methyl-2-Pentanone	43	13.217	13.217	(1.173)	143857	20.0000	20.2628
46 Toluene-d8	98	13.418	13.418	(1.191)	1069412	50.0000	50.2731
47 Toluene	92	13.509	13.509	(1.199)	302695	20.0000	21.4865
48 trans-1,3-Dichloropropene	75	13.837	13.837	(1.228)	176629	20.0000	20.9493
49 1,1,2-Trichloroethane	85	14.099	14.099	(1.252)	58986	20.0000	21.3210
50 Tetrachloroethene	166	14.239	14.239	(0.927)	118072	20.0000	20.4004
51 2-Hexanone	43	14.336	14.336	(0.933)	96509	20.0000	20.0257
52 1,3-Dichloropropane	76	14.348	14.348	(0.934)	203811	20.0000	21.0074
53 Dibromochloromethane	129	14.628	14.628	(0.952)	96688	20.0000	19.2789
54 1,2-Dibromoethane	107	14.835	14.835	(1.317)	105445	20.0000	20.9305
* 55 Chlorobenzene-d5	117	15.364	15.364	(1.000)	840419	50.0000	
56 Chlorobenzene	112	15.407	15.407	(1.003)	331860	20.0000	20.9747
57 Ethylbenzene	91	15.462	15.462	(1.006)	582500	20.0000	21.8598
58 1,1,1,2-Tetrachloroethane	131	15.486	15.486	(1.008)	109678	20.0000	21.1766
59 m,p-Xylenes	106	15.602	15.602	(1.015)	457082	40.0000	39.6567
60 o-Xylene	106	16.107	16.107	(1.048)	216346	20.0000	21.5699
61 Styrene	104	16.125	16.125	(1.049)	366903	20.0000	19.3716
62 Bromoform	173	16.423	16.423	(1.069)	70160	20.0000	19.1007
63 Isopropylbenzene	105	16.502	16.502	(0.912)	558437	20.0000	20.4128
64 Cyclohexanone	55	16.739	16.739	(0.925)	153267	200.000	183.9068(A)
65 Bromofluorobenzene	95	16.764	16.764	(0.927)	474943	50.0000	50.1936
66 1,1,2,2-Tetrachloroethane	83	16.897	16.897	(0.934)	155416	20.0000	20.5821
67 Bromobenzene	156	16.970	16.970	(0.938)	148834	20.0000	20.7256
68 Propylbenzene	91	16.977	16.977	(0.938)	736076	20.0000	20.4744
69 1,2,3-Trichloropropane	75	16.989	16.989	(0.939)	161851	20.0000	20.1589
70 2-Chlorotoluene	91	17.147	17.147	(0.948)	491198	20.0000	21.7141
71 1,3,5-Trimethylbenzene	105	17.159	17.159	(0.949)	507036	20.0000	20.1270
72 4-Chlorotoluene	91	17.269	17.269	(0.955)	455439	20.0000	21.5647
73 tert-Butylbenzene	119	17.536	17.536	(0.969)	428349	20.0000	20.3325
74 1,2,4-Trimethylbenzene	105	17.597	17.597	(0.973)	523796	20.0000	22.2971
75 sec-Butylbenzene	105	17.786	17.786	(0.983)	655247	20.0000	20.5293
76 para-Isopropyl Toluene	119	17.926	17.926	(0.991)	559796	20.0000	20.4101

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF518.D
Report Date: 07-Jun-2006 07:44

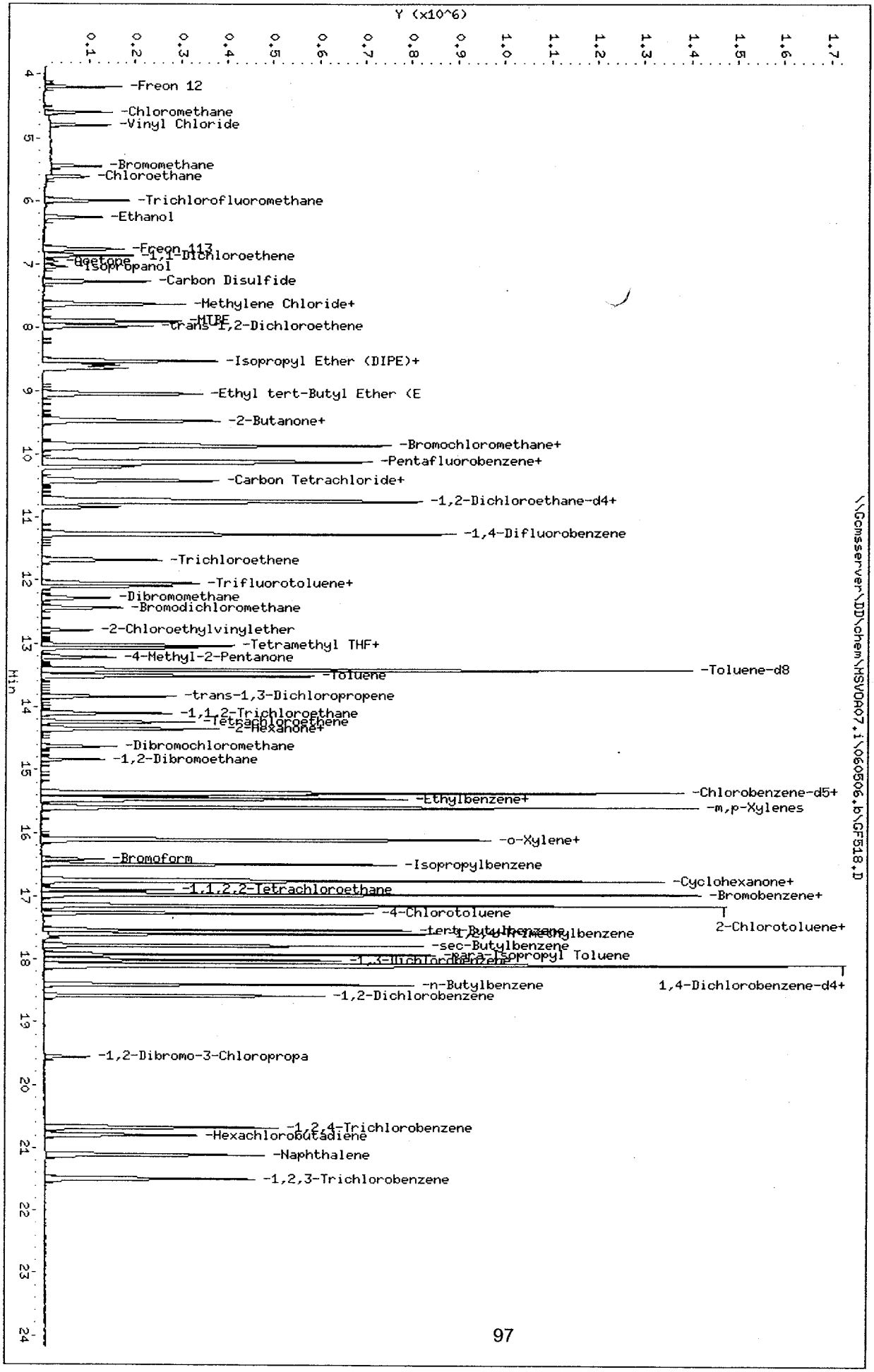
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.011	18.011	(0.996)	299197	20.0000	21.1823
* 78 1,4-Dichlorobenzene-d4	152	18.090	18.090	(1.000)	495948	50.0000	
79 1,4-Dichlorobenzene	146	18.114	18.114	(1.001)	312312	20.0000	20.7859
80 n-Butylbenzene	91	18.406	18.406	(1.017)	524181	20.0000	20.2442
81 1,2-Dichlorobenzene	146	18.583	18.583	(1.027)	289805	20.0000	21.1071
82 1,2-Dibromo-3-Chloropropane	75	19.562	19.562	(1.081)	31994	20.0000	19.7385
83 1,2,4-Trichlorobenzene	180	20.675	20.675	(1.143)	226545	20.0000	21.6997
84 Hexachlorobutadiene	225	20.797	20.797	(1.150)	97818	20.0000	20.4156
85 Naphthalene	128	21.107	21.107	(1.167)	548148	20.0000	20.0774
86 1,2,3-Trichlorobenzene	180	21.491	21.491	(1.188)	222515	20.0000	21.8126

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Gcmsserver\DD\chem\HSVOA07.i\060506.b\GF518.D
Date : 05-JUN-2006 16:40
Client ID: DYNA P&T
Sample Info: ICAL,S3592,0.004/100,S3536,0.004/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: HSVOA07.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF519.D
Report Date: 07-Jun-2006 07:45

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF519.D
Lab Smp Id:
Client Smp ID: DYNA P&T
Inj Date : 05-JUN-2006 17:11
MS Autotune Date: 25-MAY-2006 16:01
Operator : LW
Inst ID: MSVOA07.i
Smp Info : ICAL,S3592,0.01/100,S3536,0.01/100,
Misc Info : S2864,0.005/100,50 PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\826GOX7.m
Meth Date : 07-Jun-2006 07:45 lara
Quant Type: ISTD
Cal Date : 05-JUN-2006 17:11
Cal File: GF519.D
Als bottle: 19
Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.189	4.189	(0.414)	406465	50.0000	56.2619
2 Chloromethane	50	4.596	4.596	(0.455)	415372	50.0000	50.1908
3 Vinyl Chloride	62	4.797	4.797	(0.475)	356334	50.0000	52.8863
4 Bromomethane	94	5.448	5.448	(0.539)	211098	50.0000	48.5929
5 Chloroethane	64	5.612	5.612	(0.555)	267174	50.0000	58.4841
6 Trichlorofluoromethane	101	5.996	5.996	(0.593)	516375	50.0000	55.5605
7 Ethanol	45	6.257	6.257	(0.619)	439292	5000.00	5097.2361(A)
8 Freon 113	101	6.762	6.762	(0.669)	268500	50.0000	52.9111
9 1,1-Dichloroethene	96	6.853	6.853	(0.678)	238329	50.0000	50.7191
10 Acetone	43	6.951	6.951	(0.688)	125157	50.0000	48.6995
11 Isopropanol	45	7.036	7.036	(0.696)	208457	500.000	501.7681(A)
12 Carbon Disulfide	76	7.267	7.267	(0.719)	1015470	50.0000	54.5399
13 Methylene Chloride	84	7.626	7.626	(0.754)	301354	50.0000	49.0847
14 tert-Butyl Alcohol (TBA)	59	7.620	7.620	(0.754)	318977	500.000	518.9734(A)
15 MTBE	73	7.894	7.894	(0.781)	993723	50.0000	53.3047
16 trans-1,2-Dichloroethene	96	7.973	7.973	(0.789)	285995	50.0000	52.4961
17 Isopropyl Ether (DIPE)	45	8.526	8.526	(0.844)	1180830	50.0000	53.7727(A)
18 Vinyl Acetate	43	8.587	8.587	(0.850)	851044	50.0000	53.2218
19 1,1-Dichloroethane	63	8.642	8.642	(0.855)	576428	50.0000	52.2000
20 Ethyl tert-Butyl Ether (ETBE)	59	9.050	9.050	(0.895)	1052065	50.0000	54.0776(A)
21 2-Butanone	43	9.451	9.451	(0.935)	186628	50.0000	51.6204
22 2,2-Dichloropropane	77	9.469	9.469	(0.937)	413123	50.0000	54.8169

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF519.D
Report Date: 07-Jun-2006 07:45

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 cis-1,2-Dichloroethene	96	9.488	9.488	(0.939)	312689	50.0000	52.7168
24 Bromochloromethane	128	9.853	9.853	(0.975)	150289	50.0000	52.0029
25 Tetrahydrofuran	42	9.859	9.859	(0.975)	1264014	500.000	507.5654(A)
26 Chloroform	83	9.895	9.895	(0.979)	534677	50.0000	51.8977
* 27 Pentafluorobenzene	168	10.108	10.108	(1.000)	607783	50.0000	
28 Dibromofluoromethane	113	10.145	10.145	(1.004)	282846	50.0000	50.3993
29 1,1,1-Trichloroethane	97	10.199	10.199	(1.009)	466943	50.0000	56.7666
30 Carbon Tetrachloride	117	10.406	10.406	(0.924)	389791	50.0000	51.6637
31 1,1-Dichloropropene	75	10.425	10.425	(0.925)	426947	50.0000	51.2417
32 1,2-Dichloroethane-d4	65	10.717	10.717	(0.951)	410347	50.0000	50.4318
33 Benzene	78	10.747	10.747	(0.954)	1277682	50.0000	52.2093
34 Methyl tert-Amyl Ether (TAME)	73	10.759	10.759	(0.955)	926933	50.0000	53.5295(A)
35 1,2-Dichloroethane	62	10.832	10.832	(0.962)	468004	50.0000	51.3564
* 36 1,4-Difluorobenzene	114	11.264	11.264	(1.000)	941686	50.0000	
37 Trichloroethene	95	11.678	11.678	(1.037)	298705	50.0000	55.2362
38 Trifluorotoluene	146	12.049	12.049	(1.070)	490571	50.0000	51.5228(A)
39 1,2-Dichloropropane	63	12.091	12.091	(1.073)	352123	50.0000	52.8783
40 Dibromomethane	93	12.280	12.280	(1.090)	191071	50.0000	53.4947
41 Bromodichloromethane	83	12.438	12.438	(1.104)	390234	50.0000	54.7602
42 2-Chloroethylvinylether	63	12.797	12.797	(1.136)	169081	50.0000	48.5120
43 Tetramethyl THF	43	13.034	13.034	(1.157)	764592	50.0000	54.4302(A)
44 cis-1,3-Dichloropropene	75	13.071	13.071	(1.160)	523515	50.0000	54.8572
45 4-Methyl-2-Pentanone	43	13.217	13.217	(1.173)	401961	50.0000	54.1125
46 Toluene-d8	98	13.418	13.418	(1.191)	1123122	50.0000	50.4616
47 Toluene	92	13.509	13.509	(1.199)	803519	50.0000	54.5133
48 trans-1,3-Dichloropropene	75	13.837	13.837	(1.228)	489350	50.0000	55.4717
49 1,1,2-Trichloroethane	85	14.099	14.099	(1.252)	151999	50.0000	52.5102
50 Tetrachloroethene	166	14.239	14.239	(0.927)	318028	50.0000	51.4784
51 2-Hexanone	43	14.336	14.336	(0.933)	279533	50.0000	55.0732
52 1,3-Dichloropropane	76	14.348	14.348	(0.934)	533431	50.0000	52.2049
53 Dibromochloromethane	129	14.628	14.628	(0.952)	273435	50.0000	49.6737
54 1,2-Dibromoethane	107	14.835	14.835	(1.317)	285227	50.0000	54.1115
* 55 Chlorobenzene-d5	117	15.364	15.364	(1.000)	885132	50.0000	
56 Chlorobenzene	112	15.407	15.407	(1.003)	873807	50.0000	52.4379
57 Ethylbenzene	91	15.462	15.462	(1.006)	1580934	50.0000	56.3316
58 1,1,1,2-Tetrachloroethane	131	15.486	15.486	(1.008)	300775	50.0000	55.1399
59 m,p-Xylenes	106	15.602	15.602	(1.015)	1248021	100.000	100.8602
60 o-Xylene	106	16.100	16.100	(1.048)	595542	50.0000	56.3767
61 Styrene	104	16.125	16.125	(1.049)	1035394	50.0000	49.8074
62 Bromoform	173	16.423	16.423	(1.069)	204738	50.0000	49.5608
63 Isopropylbenzene	105	16.502	16.502	(0.912)	1538730	50.0000	51.7245
64 Cyclohexanone	55	16.733	16.733	(0.925)	503188	500.000	512.3928(A)
65 Bromofluorobenzene	95	16.764	16.764	(0.927)	501649	50.0000	49.5045
66 1,1,2,2-Tetrachloroethane	83	16.897	16.897	(0.934)	419997	50.0000	51.9371
67 Bromobenzene	156	16.970	16.970	(0.938)	402268	50.0000	52.3068
68 Propylbenzene	91	16.977	16.977	(0.938)	2009795	50.0000	51.5215
69 1,2,3-Trichloropropane	75	16.989	16.989	(0.939)	429814	50.0000	49.9884
70 2-Chlorotoluene	91	17.147	17.147	(0.948)	1328840	50.0000	54.8524
71 1,3,5-Trimethylbenzene	105	17.159	17.159	(0.949)	1406190	50.0000	51.0373
72 4-Chlorotoluene	91	17.269	17.269	(0.955)	1221493	50.0000	54.0061
73 tert-Butylbenzene	119	17.536	17.536	(0.969)	1192329	50.0000	51.7417
74 1,2,4-Trimethylbenzene	105	17.597	17.597	(0.973)	1446861	50.0000	57.5111
75 sec-Butylbenzene	105	17.786	17.786	(0.983)	1821686	50.0000	52.1991
76 para-Isopropyl Toluene	119	17.926	17.926	(0.991)	1555594	50.0000	51.6181

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF519.D
Report Date: 07-Jun-2006 07:45

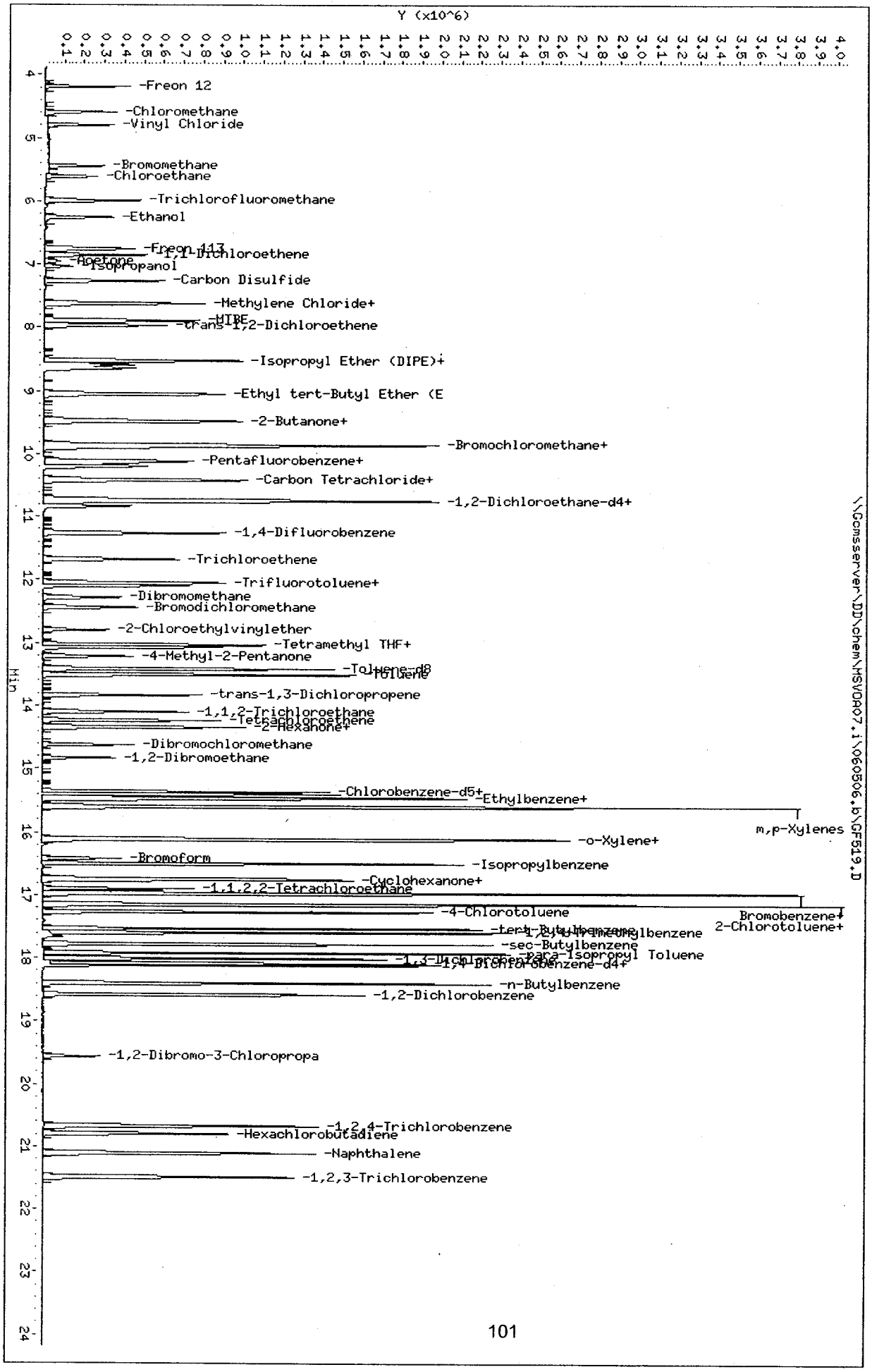
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.011	18.011	(0.996)	798797	50.0000	52.8069
* 78 1,4-Dichlorobenzene-d4	152	18.090	18.090	(1.000)	531127	50.0000	
79 1,4-Dichlorobenzene	146	18.114	18.114	(1.001)	840128	50.0000	52.2112
80 n-Butylbenzene	91	18.406	18.406	(1.017)	1483732	50.0000	51.9244
81 1,2-Dichlorobenzene	146	18.583	18.583	(1.027)	773886	50.0000	52.6306
82 1,2-Dibromo-3-Chloropropane	75	19.562	19.562	(1.081)	91393	50.0000	52.6499
83 1,2,4-Trichlorobenzene	180	20.675	20.675	(1.143)	634088	50.0000	56.7135
84 Hexachlorobutadiene	225	20.797	20.797	(1.150)	276078	50.0000	52.0303
85 Naphthalene	128	21.107	21.107	(1.167)	1596798	50.0000	50.2890
86 1,2,3-Trichlorobenzene	180	21.491	21.491	(1.188)	621085	50.0000	56.8510

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF519.D
Date : 05-JUN-2006 17:11
Client ID: DYNA P&T
Sample Info: ICAL,S3592,0.01/100,S3536,0.01/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA07.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF520.D
Report Date: 07-Jun-2006 07:46

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF520.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 05-JUN-2006 17:43 MS Autotune Date: 25-MAY-2006 16:01
Operator : LW Inst ID: MSVOA07.i
Smp Info : ICAL,S3592,0.015/100,S3536,0.015/100,
Misc Info : S2864,0.0075/100,75 PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\826GOX7.m
Meth Date : 07-Jun-2006 07:46 lara Quant Type: ISTD
Cal Date : 05-JUN-2006 17:43 Cal File: GF520.D
Als bottle: 20 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.189	4.189	(0.414)	621727	75.0000	81.8774
2 Chloromethane	50	4.596	4.596	(0.455)	655686	75.0000	75.3800
3 Vinyl Chloride	62	4.797	4.797	(0.475)	571103	75.0000	80.6443
4 Bromomethane	94	5.448	5.448	(0.539)	347100	75.0000	76.0180
5 Chloroethane	64	5.612	5.612	(0.555)	338919	75.0000	70.5850
6 Trichlorofluoromethane	101	5.995	5.995	(0.593)	802752	75.0000	82.1779
7 Ethanol	45	6.257	6.257	(0.619)	696782	7500.00	7692.2102(A)
8 Freon 113	101	6.756	6.756	(0.668)	406789	75.0000	76.1965
9 1,1-Dichloroethene	96	6.853	6.853	(0.678)	371672	75.0000	75.0638
10 Acetone	43	6.950	6.950	(0.688)	202230	75.0000	74.8665
11 Isopropanol	45	7.036	7.036	(0.696)	344884	750.000	789.8278(A)
12 Carbon Disulfide	76	7.267	7.267	(0.719)	1578416	75.0000	80.6569
13 Methylene Chloride	84	7.626	7.626	(0.754)	476691	75.0000	73.8719
14 tert-Butyl Alcohol (TBA)	59	7.620	7.620	(0.754)	542263	750.000	839.3990(A)
15 MTBE	73	7.893	7.893	(0.781)	1609860	75.0000	82.1602
16 trans-1,2-Dichloroethene	96	7.973	7.973	(0.789)	451597	75.0000	78.8664
17 Isopropyl Ether (DIPE)	45	8.526	8.526	(0.844)	1868483	75.0000	80.9536(A)
18 Vinyl Acetate	43	8.587	8.587	(0.850)	1385698	75.0000	82.4478
19 1,1-Dichloroethane	63	8.642	8.642	(0.855)	910028	75.0000	78.4067
20 Ethyl tert-Butyl Ether (ETBE)	59	9.049	9.049	(0.895)	1686024	75.0000	82.4540(A)
21 2-Butanone	43	9.451	9.451	(0.935)	309411	75.0000	81.4242
22 2,2-Dichloropropane	77	9.469	9.469	(0.937)	633968	75.0000	80.0341

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF520.D
Report Date: 07-Jun-2006 07:46

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 cis-1,2-Dichloroethene	96	9.487	9.487	(0.939)	501292	75.0000	80.4082
24 Bromochloromethane	128	9.852	9.852	(0.975)	240985	75.0000	79.3347
25 Tetrahydrofuran	42	9.858	9.858	(0.975)	2072826	750.000	791.9098(A)
26 Chloroform	83	9.895	9.895	(0.979)	840500	75.0000	77.6188
* 27 Pentafluorobenzene	168	10.108	10.108	(1.000)	638816	50.0000	
28 Dibromofluoromethane	113	10.144	10.144	(1.004)	293486	50.0000	49.7547
29 1,1,1-Trichloroethane	97	10.199	10.199	(1.009)	715578	75.0000	82.7673
30 Carbon Tetrachloride	117	10.406	10.406	(0.924)	599816	75.0000	75.8877
31 1,1-Dichloropropene	75	10.424	10.424	(0.925)	663194	75.0000	75.9508
32 1,2-Dichloroethane-d4	65	10.716	10.716	(0.951)	423587	50.0000	49.8432
33 Benzene	78	10.747	10.747	(0.954)	2013968	75.0000	78.7929
34 Methyl tert-Amyl Ether (TAME)	73	10.759	10.759	(0.955)	1502078	75.0000	83.0515(A)
35 1,2-Dichloroethane	62	10.832	10.832	(0.962)	731773	75.0000	76.8832
* 36 1,4-Difluorobenzene	114	11.264	11.264	(1.000)	983550	50.0000	
37 Trichloroethene	95	11.677	11.677	(1.037)	467287	75.0000	82.7323
38 Trifluorotoluene	146	12.049	12.049	(1.070)	750062	75.0000	75.1781(A)
39 1,2-Dichloropropane	63	12.091	12.091	(1.073)	560389	75.0000	80.5717
40 Dibromomethane	93	12.280	12.280	(1.090)	304568	75.0000	81.6413
41 Bromodichloromethane	83	12.438	12.438	(1.104)	624391	75.0000	83.8892
42 2-Chloroethylvinylether	63	12.797	12.797	(1.136)	299089	75.0000	80.7835
43 Tetramethyl THF	43	13.034	13.034	(1.157)	1226433	75.0000	83.5918(A)
44 cis-1,3-Dichloropropene	75	13.071	13.071	(1.160)	834787	75.0000	83.7509
45 4-Methyl-2-Pentanone	43	13.217	13.217	(1.173)	670146	75.0000	86.3759
46 Toluene-d8	98	13.417	13.417	(1.191)	1172643	50.0000	50.4440
47 Toluene	92	13.509	13.509	(1.199)	1267266	75.0000	82.3159
48 trans-1,3-Dichloropropene	75	13.837	13.837	(1.228)	786161	75.0000	85.3244
49 1,1,2-Trichloroethane	85	14.099	14.099	(1.252)	243923	75.0000	80.6800
50 Tetrachloroethene	166	14.239	14.239	(0.927)	491489	75.0000	75.6104
51 2-Hexanone	43	14.336	14.336	(0.933)	469523	75.0000	88.1620
52 1,3-Dichloropropane	76	14.354	14.354	(0.934)	858541	75.0000	80.0777
53 Dibromochloromethane	129	14.628	14.628	(0.952)	448116	75.0000	76.2289
54 1,2-Dibromoethane	107	14.835	14.835	(1.317)	465853	75.0000	84.6170
* 55 Chlorobenzene-d5	117	15.364	15.364	(1.000)	928733	50.0000	
56 Chlorobenzene	112	15.407	15.407	(1.003)	1383050	75.0000	79.1016
57 Ethylbenzene	91	15.461	15.461	(1.006)	2476810	75.0000	84.1102
58 1,1,1,2-Tetrachloroethane	131	15.486	15.486	(1.008)	483755	75.0000	84.5215
59 m,p-Xylenes	106	15.601	15.601	(1.015)	1981691	150.000	152.0056
60 o-Xylene	106	16.106	16.106	(1.048)	947992	75.0000	85.5281
61 Styrene	104	16.125	16.125	(1.049)	1679800	75.0000	76.0866
62 Bromoform	173	16.423	16.423	(1.069)	346470	75.0000	76.6009
63 Isopropylbenzene	105	16.502	16.502	(0.912)	2392960	75.0000	75.8162
64 Cyclohexanone	55	16.739	16.739	(0.925)	808323	750.000	765.3280(A)
65 Bromofluorobenzene	95	16.763	16.763	(0.927)	526655	50.0000	49.1389
66 1,1,2,2-Tetrachloroethane	83	16.897	16.897	(0.934)	681668	75.0000	79.7002
67 Bromobenzene	156	16.970	16.970	(0.938)	651981	75.0000	80.1553
68 Propylbenzene	91	16.976	16.976	(0.938)	3146524	75.0000	76.0539
69 1,2,3-Trichloropropane	75	16.988	16.988	(0.939)	694298	75.0000	76.3465
70 2-Chlorotoluene	91	17.147	17.147	(0.948)	2097417	75.0000	81.8583
71 1,3,5-Trimethylbenzene	105	17.159	17.159	(0.949)	2220776	75.0000	75.8718
72 4-Chlorotoluene	91	17.268	17.268	(0.955)	1932833	75.0000	80.7980
73 tert-Butylbenzene	119	17.536	17.536	(0.969)	1855806	75.0000	75.8170
74 1,2,4-Trimethylbenzene	105	17.597	17.597	(0.973)	2285359	75.0000	85.8882
75 sec-Butylbenzene	105	17.785	17.785	(0.983)	2822799	75.0000	76.1567
76 para-Isopropyl Toluene	119	17.925	17.925	(0.991)	2438601	75.0000	76.1013

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF520.D
Report Date: 07-Jun-2006 07:46

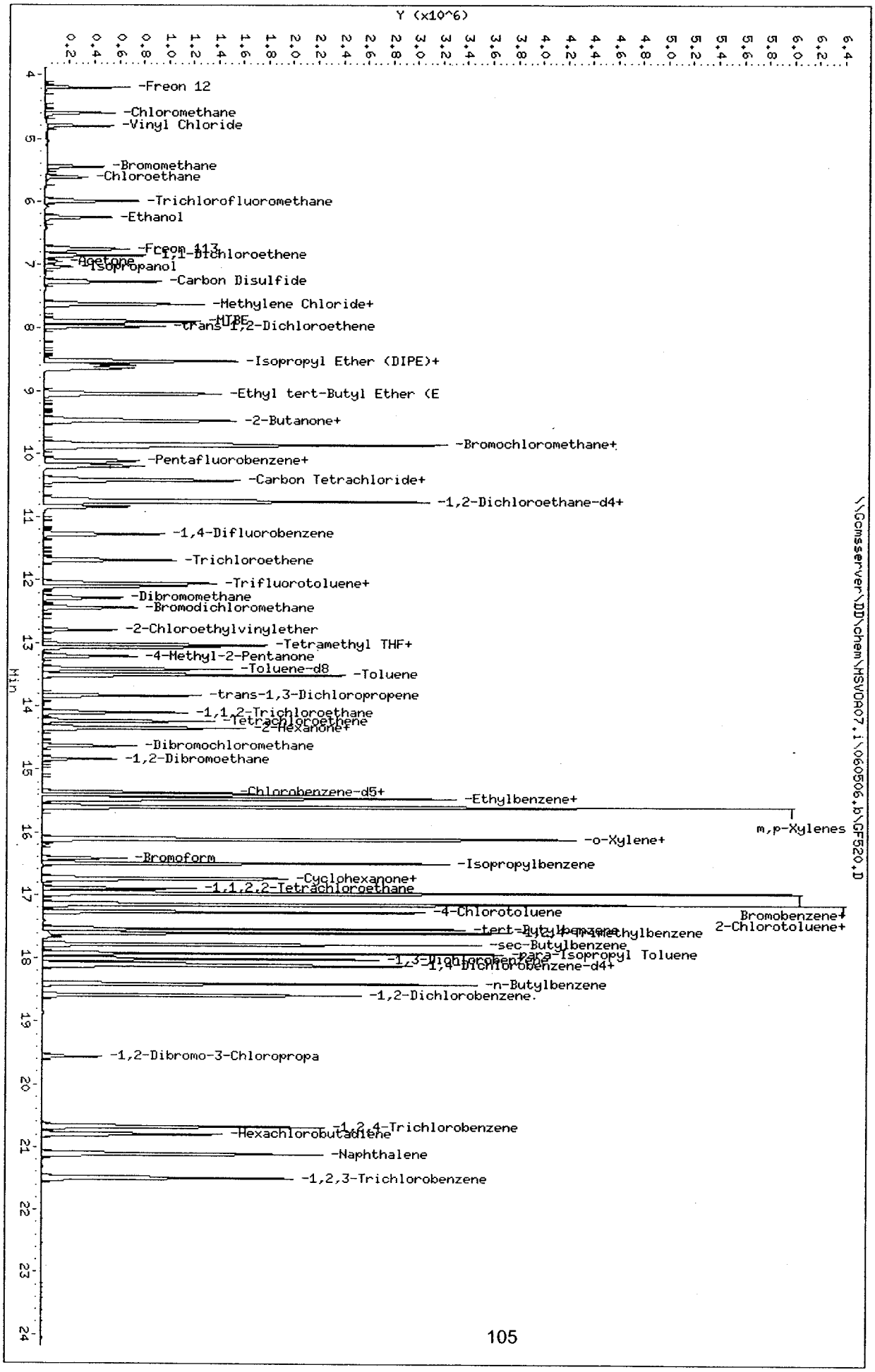
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.010	18.010	(0.996)	1273501	75.0000	79.5991
* 78 1,4-Dichlorobenzene-d4	152	18.090	18.090	(1.000)	561751	50.0000	
79 1,4-Dichlorobenzene	146	18.120	18.120	(1.002)	1332286	75.0000	78.2835
80 n-Butylbenzene	91	18.406	18.406	(1.017)	2315070	75.0000	76.1433
81 1,2-Dichlorobenzene	146	18.582	18.582	(1.027)	1241261	75.0000	79.8140
82 1,2-Dibromo-3-Chloropropane	75	19.562	19.562	(1.081)	154246	75.0000	84.0144
83 1,2,4-Trichlorobenzene	180	20.675	20.675	(1.143)	1028572	75.0000	86.9813
84 Hexachlorobutadiene	225	20.797	20.797	(1.150)	429161	75.0000	75.9621
85 Naphthalene	128	21.107	21.107	(1.167)	2663421	75.0000	74.8879
86 1,2,3-Trichlorobenzene	180	21.490	21.490	(1.188)	1006670	75.0000	87.1221

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Gcmsserver\DD\chem\HSVOA07.i\060506.b\GF520.D
Date : 05-JUN-2006 17:43
Client ID: DYNA P&T
Sample Info: ICAL,S3592,0.015/100,S3536,0.015/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: HSVOA07.i
Operator: LW
Column diameter: 0.25



Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF521.D
Report Date: 07-Jun-2006 07:46

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF521.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 05-JUN-2006 18:14 MS Autotune Date: 25-MAY-2006 16:01
Operator : LW Inst ID: MSVOA07.i
Smp Info : ICAL,S3592,0.02/100,S3536,0.02/100,
Misc Info : S2864,0.01/100,100 PPB
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\826GOX7.m
Meth Date : 07-Jun-2006 07:46 lara Quant Type: ISTD
Cal Date : 05-JUN-2006 18:14 Cal File: GF521.D
Als bottle: 21 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.189	4.189	(0.414)	838249	100.000	104.1240
2 Chloromethane	50	4.596	4.596	(0.455)	869281	100.000	94.2614
3 Vinyl Chloride	62	4.797	4.797	(0.475)	758689	100.000	101.0500(A)
4 Bromomethane	94	5.448	5.448	(0.539)	472670	100.000	97.6412
5 Chloroethane	64	5.612	5.612	(0.555)	455054	100.000	89.3909
6 Trichlorofluoromethane	101	5.989	5.989	(0.593)	1093154	100.000	105.5525
7 Ethanol	45	6.257	6.257	(0.619)	1007500	10000.0	10490.8960(A)
8 Freon 113	101	6.756	6.756	(0.668)	551118	100.000	97.3245
9 1,1-Dichloroethene	96	6.853	6.853	(0.678)	523641	100.000	99.6220
10 Acetone	43	6.951	6.951	(0.688)	275726	100.000	96.2793
11 Isopropanol	45	7.036	7.036	(0.696)	492071	1000.00	1062.9197(A)
12 Carbon Disulfide	76	7.267	7.267	(0.719)	2191257	100.000	105.6152
13 Methylene Chloride	84	7.620	7.620	(0.754)	659004	100.000	96.3260
14 tert-Butyl Alcohol (TBA)	59	7.620	7.620	(0.754)	770911	1000.00	1125.5792(A)
15 MTBE	73	7.894	7.894	(0.781)	2229720	100.000	107.3339
16 trans-1,2-Dichloroethene	96	7.973	7.973	(0.789)	627673	100.000	103.3922
17 Isopropyl Ether (DIPE)	45	8.526	8.526	(0.844)	2568599	100.000	104.9680(A)
18 Vinyl Acetate	43	8.587	8.587	(0.850)	1891497	100.000	106.1523
19 1,1-Dichloroethane	63	8.642	8.642	(0.855)	1244432	100.000	101.1307
20 Ethyl tert-Butyl Ether (ETBE)	59	9.049	9.049	(0.895)	2330772	100.000	107.5130(A)
21 2-Butanone	43	9.451	9.451	(0.935)	420349	100.000	104.3377
22 2,2-Dichloropropane	77	9.469	9.469	(0.937)	853406	100.000	101.6195

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF521.D
Report Date: 07-Jun-2006 07:46

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 cis-1,2-Dichloroethene	96	9.481	9.481	(0.938)	691544	100.000	104.6268
24 Bromochloromethane	128	9.852	9.852	(0.975)	340115	100.000	105.6117
25 Tetrahydrofuran	42	9.859	9.859	(0.975)	2805923	1000.00	1011.1183(A)
26 Chloroform	83	9.895	9.895	(0.979)	1152216	100.000	100.3636
* 27 Pentafluorobenzene	168	10.108	10.108	(1.000)	677271	50.0000	
28 Dibromofluoromethane	113	10.144	10.144	(1.004)	307092	50.0000	49.1054
29 1,1,1-Trichloroethane	97	10.199	10.199	(1.009)	982268	100.000	107.1630
30 Carbon Tetrachloride	117	10.406	10.406	(0.924)	826336	100.000	98.4593
31 1,1-Dichloropropene	75	10.424	10.424	(0.925)	915009	100.000	98.6743
32 1,2-Dichloroethane-d4	65	10.716	10.716	(0.951)	437795	50.0000	48.5870
33 Benzene	78	10.747	10.747	(0.954)	2794416	100.000	103.1126
34 Methyl tert-Amyl Ether (TAME)	73	10.759	10.759	(0.955)	2085437	100.000	108.7523(A)
35 1,2-Dichloroethane	62	10.832	10.832	(0.962)	994355	100.000	98.5333
* 36 1,4-Difluorobenzene	114	11.264	11.264	(1.000)	1042822	50.0000	
37 Trichloroethene	95	11.678	11.678	(1.037)	643568	100.000	107.4663
38 Trifluorotoluene	146	12.049	12.049	(1.070)	1050363	100.000	99.1238(A)
39 1,2-Dichloropropane	63	12.091	12.091	(1.073)	769489	100.000	104.3474
40 Dibromomethane	93	12.280	12.280	(1.090)	420676	100.000	106.3555
41 Bromodichloromethane	83	12.438	12.438	(1.104)	864617	100.000	109.5619
42 2-Chloroethylvinylether	63	12.797	12.797	(1.136)	379681	100.000	96.3307
43 Tetramethyl THF	43	13.034	13.034	(1.157)	1683864	100.000	108.2463(A)
44 cis-1,3-Dichloropropene	75	13.071	13.071	(1.160)	1158343	100.000	109.6068
45 4-Methyl-2-Pentanone	43	13.217	13.217	(1.173)	925438	100.000	112.5011
46 Toluene-d8	98	13.417	13.417	(1.191)	1229123	50.0000	49.8684
47 Toluene	92	13.509	13.509	(1.199)	1748528	100.000	107.1210
48 trans-1,3-Dichloropropene	75	13.837	13.837	(1.228)	1092279	100.000	111.8103
49 1,1,2-Trichloroethane	85	14.099	14.099	(1.252)	335909	100.000	104.7903
50 Tetrachloroethene	166	14.239	14.239	(0.927)	681105	100.000	98.7732
51 2-Hexanone	43	14.336	14.336	(0.933)	655554	100.000	116.1968
52 1,3-Dichloropropane	76	14.348	14.348	(0.934)	1179627	100.000	103.8619
53 Dibromochloromethane	129	14.628	14.628	(0.952)	627103	100.000	99.3998
54 1,2-Dibromoethane	107	14.835	14.835	(1.317)	649213	100.000	111.2199
* 55 Chlorobenzene-d5	117	15.364	15.364	(1.000)	983852	50.0000	
56 Chlorobenzene	112	15.407	15.407	(1.003)	1919565	100.000	103.6362
57 Ethylbenzene	91	15.462	15.462	(1.006)	3397724	100.000	108.9194
58 1,1,1,2-Tetrachloroethane	131	15.486	15.486	(1.008)	675848	100.000	111.4685
59 m,p-Xylenes	106	15.601	15.601	(1.015)	2743438	200.000	198.2706
60 o-Xylene	106	16.106	16.106	(1.048)	1313699	100.000	111.8823
61 Styrene	104	16.125	16.125	(1.049)	2342886	100.000	99.4457
62 Bromoform	173	16.423	16.423	(1.069)	493213	100.000	99.2374
63 Isopropylbenzene	105	16.502	16.502	(0.912)	3296735	100.000	98.4876
64 Cyclohexanone	55	16.733	16.733	(0.925)	1110125	1000.00	985.2166(A)
65 Bromofluorobenzene	95	16.763	16.763	(0.927)	554373	50.0000	48.8477
66 1,1,2,2-Tetrachloroethane	83	16.897	16.897	(0.934)	941511	100.000	103.9570
67 Bromobenzene	156	16.970	16.970	(0.938)	913178	100.000	106.0218
68 Propylbenzene	91	16.976	16.976	(0.938)	4316168	100.000	98.3920
69 1,2,3-Trichloropropane	75	16.989	16.989	(0.939)	963267	100.000	100.0305
70 2-Chlorotoluene	91	17.147	17.147	(0.948)	2879788	100.000	106.1404
71 1,3,5-Trimethylbenzene	105	17.159	17.159	(0.949)	3070676	100.000	98.8636
72 4-Chlorotoluene	91	17.268	17.268	(0.955)	2631088	100.000	103.8686
73 tert-Butylbenzene	119	17.536	17.536	(0.969)	2558608	100.000	98.5054
74 1,2,4-Trimethylbenzene	105	17.597	17.597	(0.973)	3132074	100.000	111.1613
75 sec-Butylbenzene	105	17.785	17.785	(0.983)	3852302	100.000	97.9519
76 para-Isopropyl Toluene	119	17.925	17.925	(0.991)	3345341	100.000	98.3416

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF521.D
Report Date: 07-Jun-2006 07:46

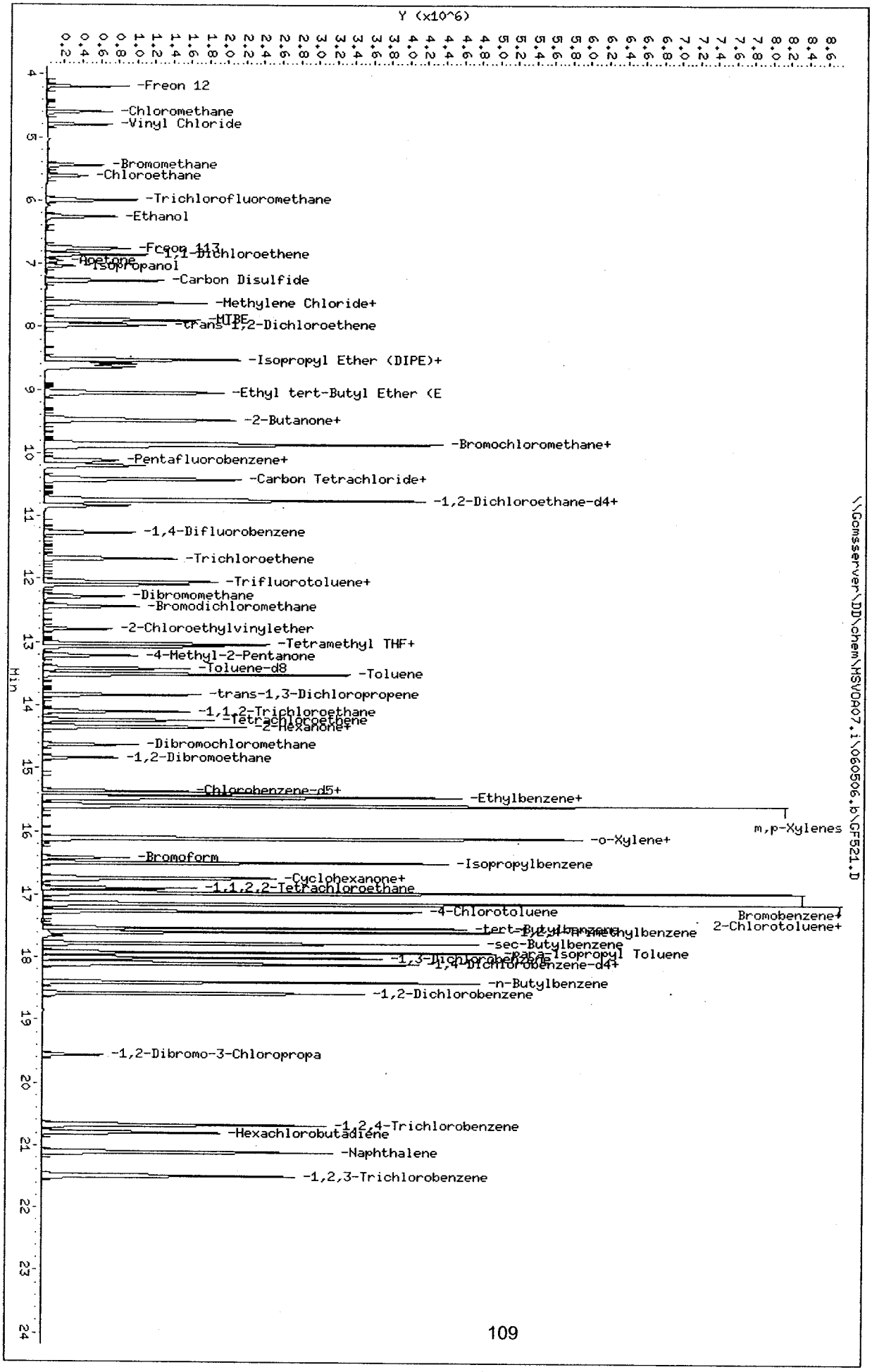
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.011	18.011	(0.996)	1765144	100.000	104.1912
* 78 1,4-Dichlorobenzene-d4	152	18.090	18.090	(1.000)	594842	50.0000	
79 1,4-Dichlorobenzene	146	18.114	18.114	(1.001)	1851178	100.000	102.7219
80 n-Butylbenzene	91	18.406	18.406	(1.017)	3170214	100.000	98.1863
81 1,2-Dichlorobenzene	146	18.582	18.582	(1.027)	1720597	100.000	104.4810
82 1,2-Dibromo-3-Chloropropane	75	19.562	19.562	(1.081)	217691	100.000	111.9754
83 1,2,4-Trichlorobenzene	180	20.675	20.675	(1.143)	1429834	100.000	114.1877
84 Hexachlorobutadiene	225	20.797	20.797	(1.150)	589640	100.000	98.2385
85 Naphthalene	128	21.107	21.107	(1.167)	3725419	100.000	94.1305
86 1,2,3-Trichlorobenzene	180	21.490	21.490	(1.188)	1386639	100.000	113.3306

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Gcmsserver\DD\chem\MSVOA07.i\060506.b\GF521.D
Date : 05-JUN-2006 18:14
Client ID: DYNA P&T
Sample Info: ICAL,S3592,0.02/100,S3536,0.02/100,
Purge Volume: 5.0
Column phase: RTX 624

Instrument: MSVOA07.i
Operator: LW
Column diameter: 0.25



CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 8260B

Inst : MSVOA07 Run Name: 40 PPB IDF : 1.0
Seqnum : 466226563003 File : gf603 Time : 06-JUN-2006 08:57
Cal : 466225081002 Caldate : 05-JUN-2006 Caltype : WATER
Standards: S3592 (12500X), S3536 (12500X), S2864 (25000X), S3570 (5000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.5943	0.7467	40.00	50.25	ug/L	**26**	30	0.0500	!c+
Chloromethane	0.6808	0.7659	40.00	45.00	ug/L	12	30	0.1000	
Vinyl Chloride	0.5543	0.6362	40.00	45.91	ug/L	15	20	0.0500	
Bromomethane	0.3574	0.3795	40.00	42.48	ug/L	6	30	0.0500	
Chloroethane	0.3758	0.4715	40.00	50.18	ug/L	**25**	30	0.0500	!c+
Trichlorofluoromethane	0.7646	0.9022	40.00	47.20	ug/L	18	30	0.0500	
Acetone	0.2114	0.2070	40.00	39.16	ug/L	-2	40	0.0500	
Freon 113	0.3783	0.4226	40.00	40.53	ug/L	1	30	0.0500	
1,1-Dichloroethene	0.3487	0.3838	40.00	39.80	ug/L	-1	20	0.0500	
Methylene Chloride	0.5051	0.4859	40.00	38.49	ug/L	-4	30	0.0500	
Carbon Disulfide	1.5317	1.6328	40.00	42.64	ug/L	7	30	0.0500	
MTBE	1.5336	1.5438	40.00	40.26	ug/L	1	30	0.0500	
trans-1,2-Dichloroethene	0.4482	0.4621	40.00	41.25	ug/L	3	30	0.0500	
Vinyl Acetate	1.3155	1.2872	40.00	39.14	ug/L	-2	40	0.0500	
1,1-Dichloroethane	0.9084	0.9228	40.00	40.63	ug/L	2	30	0.1000	
2-Butanone	0.2974	0.2913	40.00	39.17	ug/L	-2	40	0.0500	
2,2-Dichloropropane	0.6200	0.7627	40.00	49.21	ug/L	**23**	30	0.0500	!c+
cis-1,2-Dichloroethene	0.4880	0.5014	40.00	41.10	ug/L	3	30	0.0500	
Chloroform	0.8475	0.8475	40.00	40.00	ug/L	0	20	0.0500	
Bromochloromethane	0.2378	0.2374	40.00	39.94	ug/L	0	30	0.0500	
1,1,1-Trichloroethane	0.6767	0.7228	40.00	42.72	ug/L	7	30	0.0500	
1,1-Dichloropropene	0.3878	0.4314	40.00	39.13	ug/L	-2	30	0.0500	
Carbon Tetrachloride	0.3487	0.3850	40.00	38.56	ug/L	-4	30	0.0500	
1,2-Dichloroethane	0.4839	0.4679	40.00	38.68	ug/L	-3	30	0.0500	
Benzene	1.2994	1.3055	40.00	40.19	ug/L	0	30	0.0500	
Trichloroethene	0.2871	0.3006	40.00	41.87	ug/L	5	30	0.0500	
1,2-Dichloropropane	0.3536	0.3602	40.00	40.75	ug/L	2	20	0.0500	
Bromodichloromethane	0.3784	0.3941	40.00	41.66	ug/L	4	30	0.0500	
Dibromomethane	0.1896	0.1913	40.00	40.35	ug/L	1	30	0.0500	
2-Chloroethylvinylether	0.1455	0.1820	40.00	39.72	ug/L	-1	40	0.0500	
4-Methyl-2-Pentanone	0.3944	0.3692	40.00	37.44	ug/L	-6	40	0.0500	
Tetramethyl THF	0.7459	0.7371	40.00	39.53	ug/L	-1	30	0.0500	
cis-1,3-Dichloropropene	0.5067	0.5380	40.00	42.47	ug/L	6	30	0.0500	
Toluene	0.7826	0.8045	40.00	41.12	ug/L	3	20	0.0500	
trans-1,3-Dichloropropene	0.4684	0.4975	40.00	42.48	ug/L	6	30	0.0500	
1,1,2-Trichloroethane	0.1537	0.1507	40.00	39.22	ug/L	-2	30	0.0500	
2-Hexanone	0.2867	0.2763	40.00	38.55	ug/L	-4	40	0.0500	
1,3-Dichloropropane	0.5772	0.5725	40.00	39.67	ug/L	-1	30	0.0500	
Tetrachloroethene	0.3092	0.3299	40.00	37.93	ug/L	-5	30	0.0500	
Dibromochloromethane	0.2727	0.2822	40.00	36.73	ug/L	-8	30	0.0500	
1,2-Dibromoethane	0.2799	0.2795	40.00	39.95	ug/L	0	30	0.0500	
Chlorobenzene	0.9413	0.9324	40.00	39.62	ug/L	-1	30	0.3000	
1,1,1,2-Tetrachloroethane	0.3081	0.3123	40.00	40.54	ug/L	1	30	0.0500	
Ethylbenzene	1.5853	1.6317	40.00	41.17	ug/L	3	20	0.0500	
m,p-Xylenes	0.6018	0.6445	80.00	74.10	ug/L	-7	30	0.0500	
o-Xylene	0.5967	0.6171	40.00	41.37	ug/L	3	30	0.0500	
Styrene	0.9986	1.0756	40.00	37.00	ug/L	-7	30	0.0500	
Bromoform	0.1971	0.2043	40.00	35.87	ug/L	-10	30	0.1000	
Isopropylbenzene	2.4495	2.6146	40.00	37.49	ug/L	-6	30	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.7613	0.7138	40.00	37.51	ug/L	-6	30	0.3000	
1,2,3-Trichloropropane	0.8094	0.7339	40.00	36.27	ug/L	-9	30	0.0500	
Propylbenzene	3.2550	3.4342	40.00	37.53	ug/L	-6	30	0.0500	
Bromobenzene	0.7240	0.7086	40.00	39.15	ug/L	-2	30	0.0500	
1,3,5-Trimethylbenzene	2.2639	2.3728	40.00	36.79	ug/L	-8	30	0.0500	
2-Chlorotoluene	2.2806	2.2844	40.00	40.07	ug/L	0	30	0.0500	
4-Chlorotoluene	2.1292	2.1311	40.00	40.04	ug/L	0	30	0.0500	
tert-Butylbenzene	1.8620	1.9692	40.00	36.52	ug/L	-9	30	0.0500	
1,2,4-Trimethylbenzene	2.3684	2.4529	40.00	41.43	ug/L	4	30	0.0500	
sec-Butylbenzene	2.7424	3.0184	40.00	36.95	ug/L	-8	30	0.0500	
para-Isopropyl Toluene	2.3650	2.5747	40.00	36.55	ug/L	-9	30	0.0500	
1,3-Dichlorobenzene	1.4240	1.3894	40.00	39.03	ug/L	-2	30	0.0500	
1,4-Dichlorobenzene	1.5148	1.4664	40.00	38.72	ug/L	-3	30	0.0500	
n-Butylbenzene	2.2128	2.4621	40.00	36.89	ug/L	-8	30	0.0500	
1,2-Dichlorobenzene	1.3842	1.3536	40.00	39.12	ug/L	-2	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1634	0.1472	40.00	36.04	ug/L	-10	30	0.0500	
1,2,4-Trichlorobenzene	1.0525	1.0724	40.00	40.76	ug/L	2	30	0.0500	
Hexachlorobutadiene	0.3974	0.4452	40.00	35.99	ug/L	-10	30	0.0500	
Naphthalene	2.3565	2.6129	40.00	36.16	ug/L	-10	30	0.0500	
1,2,3-Trichlorobenzene	1.0285	1.0415	40.00	40.51	ug/L	1	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0506	0.0492	400.0	389.5	ug/L	-3	30	0.0050	
Isopropyl Ether (DIPE)	1.8065	1.8721	40.00	41.45	ug/L	4	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.6005	1.6480	40.00	41.19	ug/L	3	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.9194	0.9203	40.00	40.04	ug/L	0	30	0.0500	
Cyclohexanone	0.0781	0.1139	400.0	493.6	ug/L	**23**	30	0.0050	!c+
Ethanol	0.0071	0.0075	4000	4206	ug/L	5	30	5.0E-4	
Isopropanol	0.0342	0.0341	400.0	399.5	ug/L	0	30	0.0050	
Tetrahydrofuran	0.2049	0.1870	400.0	365.2	ug/L	-9	30	0.0050	
Dibromofluoromethane	0.4617	0.4642	50.00	50.27	ug/L	1	30	0.0500	
1,2-Dichloroethane-d4	0.4320	0.4244	50.00	49.11	ug/L	-2	30	0.0500	
Trifluorotoluene	0.4227	0.4873	40.00	38.69	ug/L	-3	30	0.0500	
Toluene-d8	1.1818	1.1873	50.00	50.23	ug/L	0	30	0.0500	
Bromofluorobenzene	0.9540	0.9450	50.00	49.53	ug/L	-1	30	0.0500	

ISTD (ICAL gf519)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	607783	630172	3.68	10.11	10.11	0.00
1,4-Difluorobenzene	941686	978626	3.92	11.27	11.26	-0.01
Chlorobenzene-d5	885132	919595	3.89	15.37	15.37	0.01
1,4-Dichlorobenzene-d4	531127	544042	2.43	18.09	18.09	0.00

Q 06/07/06

LW 6-7-06

!=warning +=high bias c=CCV

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 06-JUN-2006
Sequence: 466226563 (gf6)
Instrument ID: MSVOA07

ICAL Filename: gf519
Date Analyzed: 05-JUN-2006
Time Analyzed: 17:11

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	607783	10.11	941686	11.26	885132	15.36	531127	18.09
LOWER LIMIT	303892	9.61	470843	10.76	442566	14.86	265564	17.59
UPPER LIMIT	1215566	10.61	1883372	11.76	1770264	15.86	1062254	18.59

TYPE	SAMPLE	#								
CCV	40 PPB	003	630172	10.11	978626	11.26	919595	15.36	544042	18.09
BS	QC342853	004	659290	10.11	1022180	11.26	949919	15.36	552878	18.09
BSD	QC342854	005	670263	10.11	1031112	11.26	964640	15.36	559648	18.09
BLANK	QC342855	007	629041	10.11	981340	11.26	915328	15.36	508630	18.09
SAMPLE	187184-009	008	595056	10.11	928424	11.26	864878	15.36	487441	18.09
SAMPLE	187206-001	009	597756	10.11	928197	11.26	865498	15.36	489420	18.09
SAMPLE	187206-002	010	597822	10.11	926662	11.26	864407	15.36	479492	18.09
SAMPLE	187206-003	011	574981	10.11	896313	11.26	844328	15.36	467784	18.09
SAMPLE	187206-004	012	552244	10.11	859361	11.26	806125	15.36	458238	18.09
MSS	187206-005	013	538891	10.11	844239	11.26	792491	15.36	449628	18.09
SAMPLE	187206-006	014	532714	10.11	831844	11.26	784279	15.36	440279	18.09
SAMPLE	187206-007	015	531627	10.11	833168	11.26	783352	15.36	442931	18.09
SAMPLE	187206-008	016	514959	10.11	812490	11.26	763312	15.36	440053	18.09
SAMPLE	187206-009	017	501566	10.11	796505	11.26	751951	15.36	429232	18.09
SAMPLE	187206-010	018	493368	10.11	782362	11.26	740674	15.36	429667	18.09
SAMPLE	187137-001	019	498702	10.11	785196	11.26	741423	15.36	421492	18.09
SAMPLE	187180-003	020	511458	10.11	806053	11.26	760261	15.36	432135	18.09
SAMPLE	187180-002	021	490239	10.11	773031	11.26	729292	15.36	416092	18.09
SAMPLE	187180-001	022	485239	10.11	767872	11.26	730289	15.36	418661	18.09
MS	QC342875	023	510962	10.11	792064	11.26	758025	15.36	463581	18.09
MSD	QC342876	024	520533	10.11	804359	11.26	763513	15.36	469151	18.09

ICAL

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 466225081 Instrument: MSVOA07 HP GCMS VOA 07 Begun: 05-JUN-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
01	gf501	X	IB			05-JUN-2006 07:21	1.0						1	
02	gf502	TUN	BFB			05-JUN-2006 07:56	1.0						2	
03	gf503	X	QC342660 → Adj. Tune	114099	Water	05-JUN-2006 08:21	1.0	8	7	5000			3 4 5 1 spk cc+	
04	gf504	TUN	BFB			05-JUN-2006 08:59	1.0						2	
05	gf505	X	30 PPB			05-JUN-2006 09:24	1.0	7		5000			6 7 8 1 cc+	
06	gf506	TUN	BFB			05-JUN-2006 09:56	1.0						2	
07	gf507	X	30 PPB			05-JUN-2006 10:18	1.0	4		5000			6 9 8 1 cc+	
08	gf508	X	IB			05-JUN-2006 11:32	1.0						1	
09	gf509	X	IB			05-JUN-2006 12:03	1.0						1	
10	gf510	TUN	BFB			05-JUN-2006 12:33	1.0						2	
11	gf511	X	IB			05-JUN-2006 13:01	1.0						1	
12	gf512	IB	CALIB			05-JUN-2006 13:32	1.0			5000			1	
13	gf513	ICAL	0.25/0.5 PPB			05-JUN-2006 14:04	1.0						10 7 1	
14	gf514	ICAL	0.5/1.0 PPB			05-JUN-2006 14:35	1.0						10 7 8 1	
15	gf515	ICAL	2 PPB			05-JUN-2006 15:06	1.0						10 7 8 1	
16	gf516	ICAL	5 PPB			05-JUN-2006 15:38	1.0						10 7 8 1	
17	gf517	ICAL	10 PPB			05-JUN-2006 16:09	1.0						10 7 8 1	
18	gf518	ICAL	20 PPB			05-JUN-2006 16:40	1.0						10 7 8 1	
19	gf519	ICAL	50 PPB			05-JUN-2006 17:11	1.0						10 7 8 1	
20	gf520	ICAL	75 PPB			05-JUN-2006 17:43	1.0						10 7 8 1	
21	gf521	ICAL	100 PPB			05-JUN-2006 18:14	1.0						10 7 8 1	
22	gf522	ICV				05-JUN-2006 18:45	1.0			5000			4 1	
23	gf523	ICV				05-JUN-2006 19:17	1.0	1		5000			3 5 1	
24	gf524	X	IB			05-JUN-2006 19:48	1.0						1	
25	gf525	X	IB			05-JUN-2006 20:19	1.0						1	
26	gf526	X	IB			05-JUN-2006 20:50	1.0						1	

Not Used

113

ICAL-OK ICV-Cyclohexanone↓ USACE Freon 12↓, Tetra methyl THF↓)

Stds used: 1=S3570 2=S2327 3=S3391 4=S3600 5=S3604 6=S3321 7=S3536 8=S2864 9=S3365 10=S3592
Flags used: +=high bias cc=CCV CCC failure spk=5% spike rule

Analyst: LW Date: 6-6-06 [illegible]

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 466226563 Instrument: MSVOA07 HP GCMS VOA 07 Begun: 06-JUN-2006
Analytical Method: EPA 8260B SOP Version: 8260B_rv5

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	gf601	X	IB			06-JUN-2006 08:03	1.0						1	
002	gf602	TUN	BFB			06-JUN-2006 08:31	1.0						2	
003	gf603	CCV	40 PPB			06-JUN-2006 08:57	1.0			5000			3 4 5 1	
004	gf604	BS	QC342853	114139	Water	06-JUN-2006 09:42	1.0	1		5000			6 7 8 1	
005	gf605	BSD	QC342854	114139	Water	06-JUN-2006 10:13	1.0	1		5000			6 7 8 1	
006	gf606	X	IB			06-JUN-2006 10:56	1.0						1	
007	gf607	BLANK	QC342855	114139	Water	06-JUN-2006 11:27	1.0		1	5000			1	
008	gf608	SAMPLE	187184-009	114139	Water	06-JUN-2006 11:58	1.0			5000	C	L2	1 PRE/X √FR13	
009	gf609	SAMPLE	187206-001	114139	Water	06-JUN-2006 12:29	1.0			5000	A		1	
010	gf610	SAMPLE	187206-002	114139	Water	06-JUN-2006 13:01	1.0			5000	B		1	
011	gf611	SAMPLE	187206-003	114139	Water	06-JUN-2006 13:32	1.0			5000			1	
012	gf612	SAMPLE	187206-004	114139	Water	06-JUN-2006 14:03	1.0			5000			1	
013	gf613	MSS	187206-005	114139	Water	06-JUN-2006 14:34	1.0		1	5000			1	
014	gf614	SAMPLE	187206-006	114139	Water	06-JUN-2006 15:06	1.0			5000			1	
015	gf615	SAMPLE	187206-007	114139	Water	06-JUN-2006 15:37	1.0			5000			1	
016	gf616	SAMPLE	187206-008	114139	Water	06-JUN-2006 16:08	1.0			5000			1	114
017	gf617	SAMPLE	187206-009	114139	Water	06-JUN-2006 16:40	1.0			5000			1	
018	gf618	SAMPLE	187206-010	114139	Water	06-JUN-2006 17:11	1.0			5000			1	
019	gf619	SAMPLE	187137-001	114139	Water	06-JUN-2006 17:42	1.0			5000	C		1	
020	gf620	SAMPLE	187180-003	114139	Water	06-JUN-2006 18:13	1.0			5000	A		1 PRE/X √curves w/methS	
021	gf621	SAMPLE	187180-002	114139	Water	06-JUN-2006 18:45	1.0			5000		10	1 /X	
022	gf622	SAMPLE	187180-001	114139	Water	06-JUN-2006 19:16	40.0			5000		10	1 40X	
023	gf623	MS	QC342875	114139	Water	06-JUN-2006 19:47	1.0	1	2	5000	AD	L2	1 6 7 8	
024	gf624	MSD	QC342876	114139	Water	06-JUN-2006 20:18	1.0	1	2	5000	AD	L2	1 6 7 8	
025	gf625	X	IB			06-JUN-2006 20:49	1.0						1	
026	gf626	X	IB			06-JUN-2006 21:21	1.0						1	
027	gf627	X	IB			06-JUN-2006 21:52	1.0						1	

Stds used: 1=S3570 2=S2327 3=S3592 4=S3536 5=S2864 6=S3391 7=S3600 8=S3604

Analyst: LW Date: 6-7-06

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187137 8260 Water
Curtis & Tompkins Laboratories

| Lab ID | Inst ID | Analyzed | IDF | CVBCADMCMDVDMDTTCDBTDBMDBDTHPDCEXXTSTPDDBB | LCRLCCTDTCACEC CCTCZCCDICZCCXCBLBYYOTBCBCZR | M MEEELSBE ACKELACA EPCBPMPAOECBZLLTYMAFAM4 | E EA 1N E1 1 1MLL1 AMK1E11 2 MZ MOX E MF1E | 2 3 2 | +++++++

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 6-6

PREPPED BY.

114741

114139

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	187086-8		C	<2			8	1x	
2	-9		C					1x	
3	187185-7		B					1x	
4	-8								
5	-9								
6	-10								
7	-11		A						
8	-12		B						
9	-13								
10	-14								
11	-15								
12	-16								
13	-17								
14	-18								
15									
16									
17									
18									
19									
20									
21	187184-9		C	<2			7	1x	
22	187137-1		C		LV			1x TB	
23	187206-1		A						
24	-2		B						
25	-3								
26	-4								
27	-5		BACD	<2				MS/MSD	
28	-6		B						
29	-7								
30	-8								
31	-9								
32	-10								
33	187180-1		A	10	1ml			40x	
34	-2							1x	
35	-3			<2				1x	
36									
37									
38									
39									
40									
41									
42									

PREPFORM.

7/21/98

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water
As of 06/20/06

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10	MSVOA11
Ethanol	ug/L	55	22	23	50	11	7.9	36	10
1,1-Dichloroethene	ug/L	0.27	0.22	0.062	0.17	0.10	0.085	0.089	0.11
Benzene	ug/L	0.11	0.041	0.060	0.061	0.12	0.044	0.027	0.084
Trichloroethene	ug/L	0.21	0.076	0.18	0.17	0.11	0.072	0.087	0.086
Toluene	ug/L	0.083	0.083	0.12	0.092	0.062	0.063	0.053	0.14
Chlorobenzene	ug/L	0.10	0.090	0.11	0.16	0.16	0.079	0.050	0.075
Freon 12	ug/L	0.18	0.099	0.22	0.062	0.15	0.24	0.18	0.20
Chloromethane	ug/L	0.12	0.16	0.12	0.18	0.13	0.16	0.089	0.20
Vinyl Chloride	ug/L	0.19	0.23	0.10	0.066	0.10	0.17	0.16	0.039
Bromomethane	ug/L	0.29	0.30	0.31	0.13	0.31	0.23	0.20	0.23
Chloroethane	ug/L	0.33	0.33	0.15	0.16	0.13	0.16	0.12	0.18
Trichlorofluoromethane	ug/L	0.16	0.057	0.17	0.10	0.080	0.089	0.10	0.19
Acetone	ug/L	0.39	0.87	0.21	0.85	0.16	0.26	0.49	0.15
Freon 113	ug/L	0.062	0.12	0.13	0.25	0.071	0.20	0.091	0.16
Methylene Chloride	ug/L	0.15	0.21	0.11	0.12	0.16	0.099	0.22	0.086
MTBE	ug/L	0.069	0.074	0.065	0.045	0.040	0.051	0.052	0.068
Carbon Disulfide	ug/L	0.039	0.031	0.086	0.076	0.11	0.058	0.037	0.066
trans-1,2-Dichloroethene	ug/L	0.37	0.13	0.18	0.051	0.064	0.11	0.093	0.094
Vinyl Acetate	ug/L	0.076	0.36	0.084	0.99	0.40	0.080	0.10	0.13
1,1-Dichloroethane	ug/L	0.088	0.061	0.048	0.090	0.11	0.063	0.063	0.10
2-Butanone	ug/L	0.16	0.17	0.20	0.50	0.099	0.17	0.26	0.081
cis-1,2-Dichloroethene	ug/L	0.26	0.18	0.083	0.12	0.042	0.096	0.11	0.16
2,2-Dichloropropane	ug/L	0.093	0.17	0.077	0.12	0.066	0.084	0.083	0.14
Chloroform	ug/L	0.082	0.055	0.086	0.060	0.11	0.030	0.044	0.084
Bromochloromethane	ug/L	0.091	0.090	0.10	0.18	0.11	0.20	0.15	0.11
1,1,1-Trichloroethane	ug/L	0.084	0.066	0.14	0.11	0.061	0.045	0.041	0.096
1,1-Dichloropropene	ug/L	0.12	0.11	0.081	0.16	0.16	0.052	0.055	0.084
Carbon Tetrachloride	ug/L	0.089	0.11	0.098	0.17	0.15	0.095	0.056	0.14
1,2-Dichloroethane	ug/L	0.090	0.088	0.099	0.096	0.12	0.058	0.056	0.094
1,2-Dichloropropane	ug/L	0.093	0.060	0.079	0.071	0.14	0.072	0.12	0.086
Bromodichloromethane	ug/L	0.086	0.039	0.067	0.074	0.10	0.081	0.069	0.094
Dibromomethane	ug/L	0.16	0.061	0.092	0.16	0.11	0.065	0.13	0.089
4-Methyl-2-Pentanone	ug/L	0.044	0.076	0.057	0.20	0.13	0.092	0.25	0.067
cis-1,3-Dichloropropene	ug/L	0.068	0.065	0.056	0.20	0.16	0.042	0.044	0.080
trans-1,3-Dichloropropene	ug/L	0.074	0.074	0.044	0.073	0.14	0.071	0.060	0.059
1,1,2-Trichloroethane	ug/L	0.12	0.12	0.14	0.19	0.15	0.094	0.058	0.12
2-Hexanone	ug/L	0.043	0.31	0.047	0.34	0.11	0.13	0.14	0.097
1,3-Dichloropropane	ug/L	0.064	0.067	0.061	0.063	0.10	0.045	0.068	0.049
Tetrachloroethene	ug/L	0.13	0.14	0.12	0.22	0.14	0.090	0.093	0.089
Dibromochloromethane	ug/L	0.099	0.054	0.10	0.085	0.056	0.077	0.063	0.094
1,2-Dibromoethane	ug/L	0.16	0.061	0.10	0.073	0.11	0.053	0.070	0.088
2-Chloroethylvinylether	ug/L	0.093	0.18	0.24	0.17	0.14	0.20	0.23	0.14
1,1,1,2-Tetrachloroethane	ug/L	0.11	0.087	0.10	0.11	0.14	0.046	0.088	0.16
Ethylbenzene	ug/L	0.059	0.076	0.075	0.17	0.041	0.060	0.11	0.069
m,p-Xylenes	ug/L	0.24	0.22	0.14	0.27	0.17	0.13	0.20	0.14

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water
As of 06/20/06

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10	MSVOA11
o-Xylene	ug/L	0.10	0.058	0.092	0.11	0.16	0.11	0.13	0.078
Styrene	ug/L	0.12	0.092	0.098	0.085	0.16	0.075	0.061	0.055
Bromoform	ug/L	0.12	0.088	0.11	0.18	0.094	0.079	0.15	0.10
Isopropylbenzene	ug/L	0.12	0.059	0.090	0.18	0.059	0.053	0.10	0.089
1,1,2,2-Tetrachloroethane	ug/L	0.13	0.096	0.086	0.047	0.13	0.070	0.055	0.11
1,2,3-Trichloropropane	ug/L	0.31	0.28	0.074	0.11	0.17	0.20	0.16	0.072
Propylbenzene	ug/L	0.075	0.10	0.063	0.21	0.023	0.055	0.11	0.088
Bromobenzene	ug/L	0.12	0.12	0.10	0.19	0.12	0.073	0.085	0.088
1,3,5-Trimethylbenzene	ug/L	0.060	0.095	0.047	0.14	0.057	0.077	0.13	0.069
2-Chlorotoluene	ug/L	0.12	0.11	0.068	0.15	0.025	0.047	0.12	0.080
4-Chlorotoluene	ug/L	0.079	0.069	0.043	0.14	0.037	0.032	0.069	0.078
tert-Butylbenzene	ug/L	0.11	0.15	0.075	0.19	0.038	0.042	0.079	0.082
1,2,4-Trimethylbenzene	ug/L	0.091	0.088	0.066	0.12	0.069	0.077	0.10	0.099
sec-Butylbenzene	ug/L	0.11	0.12	0.062	0.17	0.088	0.041	0.076	0.097
para-Isopropyl Toluene	ug/L	0.058	0.12	0.12	0.14	0.056	0.055	0.045	0.075
1,3-Dichlorobenzene	ug/L	0.080	0.16	0.097	0.18	0.060	0.071	0.10	0.094
1,4-Dichlorobenzene	ug/L	0.068	0.14	0.095	0.18	0.038	0.092	0.17	0.072
n-Butylbenzene	ug/L	0.12	0.15	0.11	0.18	0.21	0.048	0.12	0.073
1,2-Dichlorobenzene	ug/L	0.072	0.14	0.080	0.14	0.16	0.068	0.061	0.081
1,2-Dibromo-3-Chloropropane	ug/L	0.39	0.25	0.21	0.22	0.13	0.26	0.098	0.18
1,2,4-Trichlorobenzene	ug/L	0.12	0.17	0.14	0.16	0.10	0.16	0.17	0.061
Hexachlorobutadiene	ug/L	0.19	0.19	0.29	0.21	0.11	0.24	0.25	0.17
Naphthalene	ug/L	0.12	0.13	0.060	0.10	0.091	0.20	0.16	0.052
1,2,3-Trichlorobenzene	ug/L	0.063	0.17	0.10	0.20	0.095	0.18	0.29	0.15
tert-Butyl Alcohol (TBA)	ug/L	1.3	1.6	0.83	2.5	1.3	0.94	1.3	1.3
Isopropyl Ether (DIPE)	ug/L	0.068	0.070	0.063	0.027	0.030	0.053	0.027	0.089
Ethyl tert-Butyl Ether (ETBE)	ug/L	0.089	0.045	0.024	0.20	0.033	0.075	0.034	0.079
Methyl tert-Amyl Ether (TAME)	ug/L	0.094	0.13	0.055	0.054	0.048	0.032	0.057	0.17
Isopropanol	ug/L	4.6	2.7	1.6	6.6	1.5	1.4	1.1	1.3
Hexane	ug/L				0.33		0.15		
Cyclohexanone	ug/L	3.8	2.4	0.21	1.6	1.6	2.5		1.0
Tetrahydrofuran	ug/L	0.64	1.2	1.1	0.79	1.4	1.7	3.5	0.65
Tetramethyl THF	ug/L	0.067	0.061	0.062	0.20	0.10	0.055	0.078	0.079
Gasoline C6-C10	ug/L		15		4.8	15	8.5		
Gasoline C7-C12	ug/L		18		2.4	13	7.7		
Dibromofluoromethane	ug/L	3.1	2.9	1.8	2.4	1.5		3.2	1.7
1,2-Dichloroethane-d4	ug/L	3.0	3.9		2.4	1.2		3.0	1.8
Toluene-d8	ug/L	1.7	3.8		1.1	1.0		1.1	0.96
Bromofluorobenzene	ug/L	2.5	2.6		1.2	1.2		1.5	1.0
Trifluorotoluene	ug/L	0.12	0.43	0.065	0.21	0.13		0.14	0.18

PESTICIDES

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	DW053006B	Batch#:	114080
Lab ID:	187137-001	Sampled:	05/30/06
Matrix:	Water	Received:	05/30/06
Units:	ug/L	Prepared:	06/02/06
Diln Fac:	1.000	Analyzed:	06/08/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.09
4,4'-DDE	ND	0.09
Endrin	ND	0.09
Endosulfan II	ND	0.09
Endosulfan sulfate	ND	0.09
4,4'-DDD	ND	0.09
4,4'-DDT	ND	0.09
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.09
Toxaphene	ND	0.9

Surrogate	%REC	Limits
TCMX	78	65-135
Decachlorobiphenyl	91	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC342592	Batch#:	114080
Matrix:	Water	Prepared:	06/02/06
Units:	ug/L	Analyzed:	06/08/06

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	82	65-135
Decachlorobiphenyl	93	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Matrix:	Water	Batch#:	114080
Units:	ug/L	Prepared:	06/02/06
Diln Fac:	1.000	Analyzed:	06/08/06

Type: BS Lab ID: QC342593

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	0.2000	0.1907	95	65-135
Heptachlor	0.2000	0.2120	106	65-135
Aldrin	0.2000	0.1918	96	65-135
Dieldrin	0.4000	0.4139	103	65-135
Endrin	0.4000	0.3954	99	65-135
4,4'-DDT	0.4000	0.4085	102	65-135

Surrogate	%REC	Limits
TCMX	93	65-135
Decachlorobiphenyl	94	65-135

Type: BSD Lab ID: QC342594

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	0.2000	0.1780	89	65-135	7	35
Heptachlor	0.2000	0.1967	98	65-135	8	35
Aldrin	0.2000	0.1756	88	65-135	9	35
Dieldrin	0.4000	0.3807	95	65-135	8	35
Endrin	0.4000	0.3620	90	65-135	9	35
4,4'-DDT	0.4000	0.3754	94	65-135	8	35

Surrogate	%REC	Limits
TCMX	91	65-135
Decachlorobiphenyl	87	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187137 PEST Water: EPA 8081A

Inst : GC21
Calnum : 246225389001
Units : pg

Name : pest_156
Date : 05-JUN-2006 18:02
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	156_016	246225389016	PEST_1	05-JUN-2006 18:02	S2827
L2	156_017	246225389017	PEST_2	05-JUN-2006 18:44	S3283
L3	156_018	246225389018	PEST_3	05-JUN-2006 19:01	S2996
L4	156_019	246225389019	PEST_4	05-JUN-2006 19:19	S2997
L5	156_020	246225389020	PEST_5	05-JUN-2006 19:36	S3111
L6	156_021	246225389021	PEST_6	05-JUN-2006 19:53	S2828
L7	156_022	246225389022	PEST_7	05-JUN-2006 20:10	S2823

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
alpha-BHC	A	19450	18406	17209	16123	16222	16856	15243	AVRG		5.86E-5		17073	8	0.995	20	
gamma-BHC	A	18539	17126	15981	14820	14902	15258	13738	AVRG		6.34E-5		15766	10	0.995	20	
beta-BHC	A	9324.0	7692.6	6912.6	6206.8	6174.8	6092.5	5976.9	AVRG		1.45E-4		6911.5	18	0.995	20	
delta-BHC	A	21666	17025	16262	14695	14969	14969	12952	AVRG		6.22E-5		16077	17	0.995	20	
Heptachlor	A	13143	12408	12239	11091	11126	11704	10969	AVRG		8.47E-5		11811	7	0.995	20	
Aldrin	A	17460	14437	14356	13432	13382	13409	11591	AVRG		7.14E-5		14009	13	0.995	20	
Heptachlor epoxide	A	16751	14509	13523	12559	12450	12152	10499	AVRG		7.57E-5		13206	15	0.995	20	
gamma-Chlordane	A	16391	15815	13855	12784	12743	12667	11071	AVRG		7.34E-5		13618	14	0.995	20	
alpha-Chlordane	A	17093	14025	13662	12024	12254	11869	10509	AVRG		7.66E-5		13062	16	0.995	20	
4,4'-DDE	A	14360	13095	12590	12008	11887	10761	8196.1	AVRG		8.44E-5		11842	17	0.995	20	
Endosulfan I	A	15312	13190	11958	11453	10902	11173	9874.5	AVRG		8.35E-5		11980	15	0.995	20	
Dieldrin	A	14643	12882	12812	12022	11919	10594	7916.0	AVRG		8.46E-5		11827	18	0.995	20	
Endrin	A	10532	12106	10197	9306.5	9321.5	8917.8	7041.2	AVRG		1.04E-4		9631.8	16	0.995	20	
4,4'-DDD	A	11333	10875	10280	9368.8	9641.0	9032.2	7162.0	AVRG		1.03E-4		9670.3	14	0.995	20	
Endosulfan II	A	11621	11215	10649	9879.0	9812.0	9431.5	7374.4	AVRG		1.00E-4		9997.4	14	0.995	20	
4,4'-DDT	A	8714.3	10029	9238.6	8793.4	9054.3	9000.3	7370.9	AVRG		1.13E-4		8885.8	9	0.995	20	
Methoxychlor	A	3874.4	3943.1	3796.5	3489.9	3394.8	2704.8		AVRG		2.83E-4		3533.9	13	0.995	20	
Endosulfan sulfate	A	10621	9632.3	9301.7	8347.3	8708.7	8246.8	6900.2	AVRG		1.13E-4		8822.5	13	0.995	20	
Endrin ketone	A	12577	11158	10693	10146	10168	9270.4	7132.1	AVRG		9.84E-5		10163	17	0.995	20	
TCMX	A	12078	11932	11501	10508	10526	10765	9760.6	AVRG		9.08E-5		11010	8	0.995	20	
Decachlorobiphenyl	A	8867.3	8714.3	7487.7	7074.8	7048.2	6834.1	6000.5	AVRG		1.35E-4		7432.4	14	0.995	20	
alpha-BHC	B	12594	12129	10939	10771	11305	11936	10531	AVRG		8.73E-5		11458	7	0.995	20	
gamma-BHC	B	12685	12256	11000	10679	11200	12513	11376	AVRG		8.57E-5		11673	7	0.995	20	
beta-BHC	B	6885.5	6024.6	5416.5	5195.7	5293.8	5927.2	5581.7	AVRG		1.74E-4		5760.7	10	0.995	20	
delta-BHC	B	10457	9877.0	9166.5	8916.4	9549.8	10260	9392.0	AVRG		1.04E-4		9659.8	6	0.995	20	
Heptachlor	B	13008	12484	11317	10994	11638	13563	12057	AVRG		8.23E-5		12152	8	0.995	20	

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Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Aldrin	B	11865	11156	10156	9792.5	10240	11252	10275	AVRG		9.37E-5		10676	7	0.995	20	
Heptachlor epoxide	B	10500	10084	9474.7	8927.5	9124.5	9873.9	8629.8	AVRG		1.05E-4		9516.3	7	0.995	20	
gamma-Chlordane	B	11340	10862	9868.7	9267.2	9505.4	10336	9106.1	AVRG		9.96E-5		10041	8	0.995	20	
alpha-Chlordane	B	10998	10252	9182.9	8486.0	8864.0	9742.3	8260.3	AVRG		1.06E-4		9397.9	11	0.995	20	
4,4'-DDE	B	10577	10304	9094.1	8721.7	8928.1	8956.0	6993.0	AVRG		1.10E-4		9081.8	13	0.995	20	
Endosulfan I	B	10507	10226	9258.8	8757.8	8875.1	9156.5	8277.8	AVRG		1.08E-4		9294.0	9	0.995	20	
Dieldrin	B	11039	10835	9675.0	9054.2	9264.8	8806.4	6701.2	AVRG		1.07E-4		9339.3	15	0.995	20	
Endrin	B	8142.3	8393.6	7040.8	6607.3	6930.3	6843.3	5430.2	AVRG		1.42E-4		7055.4	14	0.995	20	
4,4'-DDD	B	8758.0	8838.6	7616.9	7209.5	7435.5	7414.7	5881.2	AVRG		1.32E-4		7593.5	13	0.995	20	
Endosulfan II	B	10282	10067	8709.4	8127.3	8332.1	7964.8	6172.0	AVRG		1.17E-4		8522.1	16	0.995	20	
4,4'-DDT	B	8279.0	8577.0	7701.3	7424.6	7527.7	7574.0	5936.5	AVRG		1.32E-4		7574.3	11	0.995	20	
Methoxychlor	B	3584.0	3559.2	3095.7	2843.5	2766.3	2276.2		AVRG		3.31E-4		3020.8	17	0.995	20	
Endosulfan sulfate	B	8977.8	8399.5	7431.9	6907.2	7032.4	6839.5	5472.3	AVRG		1.37E-4		7294.4	16	0.995	20	
Endrin ketone	B	10900	10203	8968.0	8423.6	8402.9	7841.5	5944.9	AVRG		1.15E-4		8669.1	19	0.995	20	
TCMX	B	8391.3	7919.7	6985.6	6874.6	7057.4	6999.5	6415.6	AVRG		1.38E-4		7234.8	9	0.995	20	
Decachlorobiphenyl	B	8404.5	8235.7	6931.0	6596.9	6814.0	6500.0	5276.8	AVRG		1.44E-4		6965.6	15	0.995	20	
Average EPA 8081A	A												(n=22)	14		20	
Average EPA 8081A	B												(n=22)	12		20	

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Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 187137 PEST Water
EPA 8081A

Inst : GC21 Name : pest_156
Calnum : 246225389001 Cal Date: 05-JUN-2006

ICV 246225389024 (156_024 05-JUN-2006) stds: S3067

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
alpha-BHC	A	17073	16046	25.00	23.50	pg	-6	15	
gamma-BHC	A	15766	14888	25.00	23.61	pg	-6	15	
beta-BHC	A	6911.5	6019.0	25.00	21.77	pg	-13	15	
delta-BHC	A	16077	15803	25.00	24.57	pg	-2	15	
Heptachlor	A	11811	11618	25.00	24.59	pg	-2	15	
Aldrin	A	14009	13474	25.00	24.04	pg	-4	15	
Heptachlor epoxide	A	13206	12108	25.00	22.92	pg	-8	15	
gamma-Chlordane	A	13618	12345	25.00	22.66	pg	-9	15	
alpha-Chlordane	A	13062	11901	25.00	22.78	pg	-9	15	
4,4'-DDE	A	11842	12290	25.00	25.94	pg	4	15	
Endosulfan I	A	11980	11480	25.00	23.96	pg	-4	15	
Dieldrin	A	11827	12122	25.00	25.62	pg	2	15	
Endrin	A	9631.8	9184.4	25.00	23.84	pg	-5	15	
4,4'-DDD	A	9670.3	9615.3	25.00	24.86	pg	-1	15	
Endosulfan II	A	9997.4	9973.4	25.00	24.94	pg	0	15	
4,4'-DDT	A	8885.8	8866.7	25.00	24.95	pg	0	15	
Methoxychlor	A	3533.9	4279.1	25.00	30.27	pg	**21**	15	v+ ***
Endosulfan sulfate	A	8822.5	8699.2	25.00	24.65	pg	-1	15	
Endrin ketone	A	10163	10690	25.00	26.30	pg	5	15	
alpha-BHC	B	11458	10394	25.00	22.68	pg	-9	15	
gamma-BHC	B	11673	10521	25.00	22.53	pg	-10	15	
beta-BHC	B	5760.7	4956.7	25.00	21.51	pg	-14	15	
delta-BHC	B	9659.8	9111.8	25.00	23.58	pg	-6	15	
Heptachlor	B	12152	11088	25.00	22.81	pg	-9	15	
Aldrin	B	10676	9629.4	25.00	22.55	pg	-10	15	
Heptachlor epoxide	B	9516.3	8533.3	25.00	22.42	pg	-10	15	
gamma-Chlordane	B	10041	8782.1	25.00	21.87	pg	-13	15	
alpha-Chlordane	B	9397.9	8451.0	25.00	22.48	pg	-10	15	
4,4'-DDE	B	9081.8	8941.0	25.00	24.61	pg	-2	15	
Endosulfan I	B	9294.0	8409.1	25.00	22.62	pg	-10	15	
Dieldrin	B	9339.3	9051.7	25.00	24.23	pg	-3	15	
Endrin	B	7055.4	6796.8	25.00	24.08	pg	-4	15	
4,4'-DDD	B	7593.5	7209.8	25.00	23.74	pg	-5	15	
Endosulfan II	B	8522.1	8322.0	25.00	24.41	pg	-2	15	
4,4'-DDT	B	7574.3	7512.8	25.00	24.80	pg	-1	15	
Methoxychlor	B	3020.8	3534.6	25.00	29.25	pg	**17**	15	v+ ***
Endosulfan sulfate	B	7294.4	6840.2	25.00	23.44	pg	-6	15	
Endrin ketone	B	8669.1	8538.6	25.00	24.62	pg	-2	15	
Average EPA 8081A	A	n=20					5	15	
Average EPA 8081A	B	n=20					7	15	

+=high bias v=ICV

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 187137 PEST Water
EPA 8081A

Inst : GC21 Run Name: PEM IDF : 1.0
Seqnum : 246229725011 File : 159_011 Time : 08-JUN-2006 15:37

Standards: S3206

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	817187	6	15	
4,4'-DDE	A	17251			
4,4'-DDD	A	34736			
Endrin	A	465771	12	15	
Endrin aldehyde	A	28653			
Endrin ketone	A	34936			
4,4'-DDT	B	691612	4	15	
4,4'-DDE	B	7204			
4,4'-DDD	B	19288			
Endrin	B	348256	8	15	
Endrin aldehyde	B	15921			
Endrin ketone	B	13605			

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 187137 PEST Water
EPA 8081A

Inst : GC21 Run Name: PEM IDF : 1.0
Seqnum : 246229725021 File : 159_021 Time : 08-JUN-2006 20:32

Standards: S3206

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	838558	5	15	
4,4'-DDE	A	12791			
4,4'-DDD	A	29164			
Endrin	A	467396	7	15	
Endrin aldehyde	A	15883			
Endrin ketone	A	21835			
4,4'-DDT	B	660878	3	15	
4,4'-DDE	B	4855			
4,4'-DDD	B	16788			
Endrin	B	321374	8	15	
Endrin aldehyde	B	12889			
Endrin ketone	B	13797			

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187137 PEST Water
EPA 8081A

Inst : GC21 Run Name: PEST_5 IDF : 1.0
Seqnum : 246229725009 File : 159_009 Time : 08-JUN-2006 15:03
Cal : 246225389001 Caldate : 05-JUN-2006
Standards: S3111

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	17073	17245	25.00	25.25	pg	1	15	
gamma-BHC	A	15766	15526	25.00	24.62	pg	-2	15	
beta-BHC	A	6911.5	6474.0	25.00	23.42	pg	-6	15	
delta-BHC	A	16077	16503	25.00	25.66	pg	3	15	
Heptachlor	A	11811	12550	25.00	26.56	pg	6	15	
Aldrin	A	14009	13765	25.00	24.56	pg	-2	15	
Heptachlor epoxide	A	13206	12429	25.00	23.53	pg	-6	15	
gamma-Chlordane	A	13618	12464	25.00	22.88	pg	-8	15	
alpha-Chlordane	A	13062	11867	25.00	22.71	pg	-9	15	
4,4'-DDE	A	11842	11982	50.00	50.59	pg	1	15	
Endosulfan I	A	11980	11602	25.00	24.21	pg	-3	15	
Dieldrin	A	11827	12038	50.00	50.89	pg	2	15	
Endrin	A	9631.8	9896.4	50.00	51.37	pg	3	15	
4,4'-DDD	A	9670.3	9752.1	50.00	50.42	pg	1	15	
Endosulfan II	A	9997.4	10053	50.00	50.28	pg	1	15	
4,4'-DDT	A	8885.8	9118.0	50.00	51.31	pg	3	15	
Methoxychlor	A	3533.9	3578.7	250.0	253.2	pg	1	15	
Endosulfan sulfate	A	8822.5	8824.1	50.00	50.01	pg	0	15	
Endrin ketone	A	10163	10170	50.00	50.03	pg	0	15	
TCMX	A	11010	10512	50.00	47.74	pg	-5	15	
Decachlorobiphenyl	A	7432.4	6648.5	50.00	44.73	pg	-11	15	
alpha-BHC	B	11458	10445	25.00	22.79	pg	-9	15	
gamma-BHC	B	11673	12005	25.00	25.71	pg	3	15	
beta-BHC	B	5760.7	5948.5	25.00	25.82	pg	3	15	
delta-BHC	B	9659.8	9598.1	25.00	24.84	pg	-1	15	
Heptachlor	B	12152	12673	25.00	26.07	pg	4	15	
Aldrin	B	10676	10536	25.00	24.67	pg	-1	15	
Heptachlor epoxide	B	9516.3	9640.1	25.00	25.33	pg	1	15	
gamma-Chlordane	B	10041	9971.6	25.00	24.83	pg	-1	15	
alpha-Chlordane	B	9397.9	9136.0	25.00	24.30	pg	-3	15	
4,4'-DDE	B	9081.8	9048.3	50.00	49.82	pg	0	15	
Endosulfan I	B	9294.0	8965.5	25.00	24.12	pg	-4	15	
Dieldrin	B	9339.3	9197.3	50.00	49.24	pg	-2	15	
Endrin	B	7055.4	7835.9	50.00	55.53	pg	11	15	
4,4'-DDD	B	7593.5	6792.6	50.00	44.73	pg	-11	15	
Endosulfan II	B	8522.1	7345.3	50.00	43.10	pg	-14	15	
4,4'-DDT	B	7574.3	6245.5	50.00	41.23	pg	**-18**	15	c- ***
Methoxychlor	B	3020.8	2664.6	250.0	220.5	pg	-12	15	
Endosulfan sulfate	B	7294.4	7487.9	50.00	51.33	pg	3	15	
Endrin ketone	B	8669.1	8152.8	50.00	47.02	pg	-6	15	
TCMX	B	7234.8	6375.9	50.00	44.06	pg	-12	15	
Decachlorobiphenyl	B	6965.6	5897.9	50.00	42.34	pg	-15	15	
Average EPA 8081A	A	(n=22)					3	15	
Average EPA 8081A	B	(n=22)					6	15	

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187137 PEST Water
EPA 8081A

Inst : GC21 Run Name: PEST_4 IDF : 1.0
Seqnum : 246229725023 File : 159_023 Time : 08-JUN-2006 21:07
Cal : 246225389001 Caldate : 05-JUN-2006
Standards: S2997

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	17073	17097	20.00	20.03	pg	0	15	
gamma-BHC	A	15766	15476	20.00	19.63	pg	-2	15	
beta-BHC	A	6911.5	6440.3	20.00	18.64	pg	-7	15	
delta-BHC	A	16077	15582	20.00	19.38	pg	-3	15	
Heptachlor	A	11811	12455	20.00	21.09	pg	5	15	
Aldrin	A	14009	13858	20.00	19.78	pg	-1	15	
Heptachlor epoxide	A	13206	12730	20.00	19.28	pg	-4	15	
gamma-Chlordane	A	13618	12952	20.00	19.02	pg	-5	15	
alpha-Chlordane	A	13062	12666	20.00	19.39	pg	-3	15	
4,4'-DDE	A	11842	12806	40.00	43.25	pg	8	15	
Endosulfan I	A	11980	11377	20.00	18.99	pg	-5	15	
Dieldrin	A	11827	12595	40.00	42.60	pg	6	15	
Endrin	A	9631.8	10083	40.00	41.87	pg	5	15	
4,4'-DDD	A	9670.3	9988.0	40.00	41.31	pg	3	15	
Endosulfan II	A	9997.4	10566	40.00	42.28	pg	6	15	
4,4'-DDT	A	8885.8	9589.0	40.00	43.17	pg	8	15	
Methoxychlor	A	3533.9	3864.8	200.0	218.7	pg	9	15	
Endosulfan sulfate	A	8822.5	9075.6	40.00	41.15	pg	3	15	
Endrin ketone	A	10163	10508	40.00	41.36	pg	3	15	
TCMX	A	11010	10909	40.00	39.63	pg	-1	15	
Decachlorobiphenyl	A	7432.4	7283.5	40.00	39.20	pg	-2	15	
alpha-BHC	B	11458	10465	20.00	18.27	pg	-9	15	
gamma-BHC	B	11673	11094	20.00	19.01	pg	-5	15	
beta-BHC	B	5760.7	5581.5	20.00	19.38	pg	-3	15	
delta-BHC	B	9659.8	8234.8	20.00	17.05	pg	-15	15	
Heptachlor	B	12152	12294	20.00	20.23	pg	1	15	
Aldrin	B	10676	10146	20.00	19.01	pg	-5	15	
Heptachlor epoxide	B	9516.3	9210.6	20.00	19.36	pg	-3	15	
gamma-Chlordane	B	10041	9353.9	20.00	18.63	pg	-7	15	
alpha-Chlordane	B	9397.9	8391.1	20.00	17.86	pg	-11	15	
4,4'-DDE	B	9081.8	8345.1	40.00	36.76	pg	-8	15	
Endosulfan I	B	9294.0	8733.7	20.00	18.79	pg	-6	15	
Dieldrin	B	9339.3	8797.4	40.00	37.68	pg	-6	15	
Endrin	B	7055.4	5897.2	40.00	33.43	pg	**-16**	15	c- ***
4,4'-DDD	B	7593.5	6497.7	40.00	34.23	pg	-14	15	
Endosulfan II	B	8522.1	7284.6	40.00	34.19	pg	-15	15	
4,4'-DDT	B	7574.3	6400.2	40.00	33.80	pg	**-16**	15	c- ***
Methoxychlor	B	3020.8	2368.7	200.0	156.8	pg	**-22**	15	c- ***
Endosulfan sulfate	B	7294.4	6711.2	40.00	36.80	pg	-8	15	
Endrin ketone	B	8669.1	7130.3	40.00	32.90	pg	**-18**	15	c- ***
TCMX	B	7234.8	6153.3	40.00	34.02	pg	-15	15	
Decachlorobiphenyl	B	6965.6	4986.7	40.00	28.64	pg	**-28**	15	c-
Average EPA 8081A	A	(n=22)					4	15	
Average EPA 8081A	B	(n=22)					11	15	

-=low bias c=CCV

SEQUENCE SUMMARY FOR 187137 PEST Water
Curtis & Tompkins Laboratories

Sequence: 246225389 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 05-JUN-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	156_001	X	PRIMER			05-JUN-2006 12:29	1.0					
002	156_002	X	PRIMER			05-JUN-2006 12:46	1.0					
003	156_003	X	PRIMER			05-JUN-2006 13:03	1.0					
004	156_004	X	HEX			05-JUN-2006 13:21	1.0					
005	156_005	X	CCV			05-JUN-2006 13:38	1.0					
006	156_006	PEM	PEM			05-JUN-2006 13:55	1.0	1.0		1	1	
007	156_007	X	PRIMER			05-JUN-2006 15:27	1.0					
008	156_008	X	PRIMER			05-JUN-2006 15:44	1.0					
009	156_009	X	PRIMER			05-JUN-2006 16:01	1.0					
010	156_010	X	PRIMER			05-JUN-2006 16:18	1.0					
011	156_011	X	PRIMER			05-JUN-2006 16:36	1.0					
012	156_012	X	HEX			05-JUN-2006 16:53	1.0					
013	156_013	X	HEX			05-JUN-2006 17:10	1.0					
014	156_014	PEM	PEM			05-JUN-2006 17:28	1.0	1.0		1	1	
015	156_015	X	HEX			05-JUN-2006 17:45	1.0					130
016	156_016	ICAL	PEST_1			05-JUN-2006 18:02	1.0	1.0			2	
017	156_017	ICAL	PEST_2			05-JUN-2006 18:44	1.0	1.0			3	
018	156_018	ICAL	PEST_3			05-JUN-2006 19:01	1.0	1.0			4	
019	156_019	ICAL	PEST_4			05-JUN-2006 19:19	1.0	1.0			5	
020	156_020	ICAL	PEST_5			05-JUN-2006 19:36	1.0	1.0			6	
021	156_021	ICAL	PEST_6			05-JUN-2006 19:53	1.0	1.0			7	
022	156_022	ICAL	PEST_7			05-JUN-2006 20:10	1.0	1.0			8	
023	156_023	X	HEX			05-JUN-2006 20:28	1.0					
024	156_024	ICV	ICV			05-JUN-2006 20:45	1.0	1.0	2	1	9	
025	156_025	X	ICV			05-JUN-2006 21:02	1.0				9	
026	156_026	PEM	PEM			05-JUN-2006 21:20	1.0	1.0		1	1	
027	156_027	X	HEX			05-JUN-2006 21:37	1.0					
028	156_028	BLANK	QC342567	114076	Soil	05-JUN-2006 21:54	1.0	0.6723		1		
029	156_029	LCS	QC342568	114076	Soil	05-JUN-2006 22:12	1.0	0.6678		1		
030	156_030	MSS	187125-005	114076	Soil	05-JUN-2006 22:29	1.0	0.6716		1		

Stds used: 1=S3206 2=S2827 3=S3283 4=S2996 5=S2997 6=S3111 7=S2828 8=S2823 9=S3067
Flags used: ac=average CCV drift out

SEQUENCE SUMMARY FOR 187137 PEST Water
Curtis & Tompkins Laboratories

Sequence: 246225389 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 05-JUN-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
031	156_031	SAMPLE	187125-040	114076	Soil	05-JUN-2006 22:46	1.0	0.6687			1		
032	156_032	SAMPLE	187125-043	114076	Soil	05-JUN-2006 23:04	1.0	0.67			1		
033	156_033	SAMPLE	187125-049	114076	Soil	05-JUN-2006 23:21	1.0	0.6676			1		
034	156_034	SAMPLE	187125-052	114076	Soil	05-JUN-2006 23:38	1.0	0.6673			1		
035	156_035	SAMPLE	187125-056	114076	Soil	05-JUN-2006 23:55	1.0	0.6702		1	1		
036	156_036	MS	QC342569	114076	Soil	06-JUN-2006 00:13	1.0	0.6698			1		
037	156_037	MSD	QC342570	114076	Soil	06-JUN-2006 00:30	1.0	0.668			1		
038	156_038	X	HEX			06-JUN-2006 00:47	1.0						
039	156_039	PEM	PEM			06-JUN-2006 01:05	1.0	1.0			1	1	
040	156_040	X	PEST_4			06-JUN-2006 01:22	1.0	1.0			1	5 ac	
041	156_041	CCV	PEST_4			06-JUN-2006 01:39	1.0	1.0			1	5	
042	156_042	X	PEM			06-JUN-2006 01:57	1.0					1	
043	156_043	X	HEX			06-JUN-2006 02:14	1.0						
044	156_044	SAMPLE	187125-059	114076	Soil	06-JUN-2006 02:31	1.0	0.6716	1		1		
045	156_045	SAMPLE	187125-062	114076	Soil	06-JUN-2006 02:49	1.0	0.6669		2	1		
046	156_046	SAMPLE	187125-065	114076	Soil	06-JUN-2006 03:06	1.0	0.6691	1		1		181
047	156_047	SAMPLE	187125-068	114076	Soil	06-JUN-2006 03:23	1.0	0.6691	1		1		
048	156_048	SAMPLE	187125-007	114076	Soil	06-JUN-2006 03:41	1.0	0.6684	1		1		
049	156_049	SAMPLE	187125-042	114076	Soil	06-JUN-2006 03:58	1.0	0.6705			1		
050	156_050	SAMPLE	187125-045	114076	Soil	06-JUN-2006 04:15	1.0	0.6669			1		
051	156_051	SAMPLE	187125-048	114076	Soil	06-JUN-2006 04:33	1.0	0.6682			1		
052	156_052	SAMPLE	187125-051	114076	Soil	06-JUN-2006 04:50	1.0	0.6689	9		1		6:DDE44=460.327
053	156_053	SAMPLE	187125-055	114076	Soil	06-JUN-2006 05:07	1.0	0.6687			1		
054	156_054	X	HEX			06-JUN-2006 05:25	1.0						
055	156_055	PEM	PEM			06-JUN-2006 05:42	1.0	1.0			1	1	
056	156_056	CCV	PEST_2			06-JUN-2006 05:59	1.0	1.0	11		1	3	
057	156_057	X	PEST_2			06-JUN-2006 06:16	1.0	1.0			1	3 ac	
058	156_058	X	PEM			06-JUN-2006 06:34	1.0					1	
059	156_059	X	HEX			06-JUN-2006 06:51	1.0						
060	156_060	SAMPLE	187125-058	114076	Soil	06-JUN-2006 07:08	1.0	0.6711	5		1		2:DDE44=326.156

Stds used: 1=S3206 2=S2827 3=S3283 4=S2996 5=S2997 6=S3111 7=S2828 8=S2823 9=S3067
Flags used: ac=average CCV drift out

SEQUENCE SUMMARY FOR 187137 PEST Water
Curtis & Tompkins Laboratories

Sequence: 246225389 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 05-JUN-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
061	156_061	SAMPLE	187125-061	114076	Soil	06-JUN-2006 07:26	1.0	0.6684	1		1		
062	156_062	SAMPLE	187125-064	114076	Soil	06-JUN-2006 07:43	1.0	0.6711	1		1		
063	156_063	SAMPLE	187125-067	114076	Soil	06-JUN-2006 08:00	1.0	0.6705	1		1		
064	156_064	X	HEX			06-JUN-2006 08:18	1.0						
065	156_065	PEM	PEM			06-JUN-2006 08:35	1.0	1.0			1	1	
066	156_066	CCV	PEST_3			06-JUN-2006 08:52	1.0	1.0			1	4	
067	156_067	X	PEST_3			06-JUN-2006 09:10	1.0					4	
068	156_068	X	PEM			06-JUN-2006 09:27	1.0	1.0				1	
069	156_069	X	HEX			06-JUN-2006 09:44	1.0						
070	156_070	BLANK	QC342650	114096	Soil	06-JUN-2006 11:54	1.0	0.6752	1		1		
071	156_071	LCS	QC342651	114096	Soil	06-JUN-2006 12:12	1.0	0.666	1		1		
072	156_072	SAMPLE	187125-055	114076	Soil	06-JUN-2006 13:18	1.0	0.6687	1		1		
073	156_073	SAMPLE	187125-061	114076	Soil	06-JUN-2006 13:36	1.0	0.6684	1		1		
074	156_074	SAMPLE	187125-058	114076	Soil	06-JUN-2006 13:53	5.0	0.6711	1		1		
075	156_075	SAMPLE	187125-051	114076	Soil	06-JUN-2006 14:10	10.0	0.6689	3		1		2:DDE44=275.329
076	156_076	X	HEX			06-JUN-2006 14:27	1.0						
077	156_077	SAMPLE	187125-051	114076	Soil	06-JUN-2006 16:06	20.0	0.6689	2		1		1:DDE44=213.860
078	156_078	X,	PEM			06-JUN-2006 16:23	1.0	1.0			1	1	
079	156_079	CCV	PEST_4			06-JUN-2006 16:40	1.0	1.0	1		1	5	
080	156_080	PEM	PEM			06-JUN-2006 17:43	1.0	1.0			1	1	
081	156_081	X	HEX			06-JUN-2006 18:48	1.0						
082	156_082	SAMPLE	187125-051	114076	Soil	06-JUN-2006 19:05	25.0	0.6689	3		1		
083	156_083	X	HEX			06-JUN-2006 19:23	1.0						
084	156_084	MS	QC342652	114096	Soil	06-JUN-2006 19:40	1.0	0.6732	11	4	1		
085	156_085	MSD	QC342653	114096	Soil	06-JUN-2006 19:57	1.0	0.6687	11	6	1		
086	156_086	SAMPLE	187125-070	114096	Soil	06-JUN-2006 20:15	1.0	0.6757	2		1		
087	156_087	SAMPLE	187125-071	114096	Soil	06-JUN-2006 20:32	1.0	0.6623	1		1		
088	156_088	SAMPLE	187125-073	114096	Soil	06-JUN-2006 20:49	1.0	0.67	1		1		
089	156_089	X	HEX			06-JUN-2006 21:07	1.0						
090	156_090	SAMPLE	187121-001	114096	Soil	06-JUN-2006 21:24	1.0	0.677	1		1		

Stds used: 1=S3206 2=S2827 3=S3283 4=S2996 5=S2997 6=S3111 7=S2828 8=S2823 9=S3067
Flags used: ac=average CCV drift out

SEQUENCE SUMMARY FOR 187137 PEST Water
Curtis & Tompkins Laboratories

Sequence: 246225389 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 05-JUN-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
091	156_091	SAMPLE	187121-002	114096	Soil	06-JUN-2006 21:41	1.0	0.6667	2		1		
092	156_092	SAMPLE	187121-003	114096	Soil	06-JUN-2006 21:58	1.0	0.6627	1		1		
093	156_093	SAMPLE	187121-004	114096	Soil	06-JUN-2006 22:16	1.0	0.6729	1		1		
094	156_094	X	HEX			06-JUN-2006 22:33	1.0						
095	156_095	X	PEM			06-JUN-2006 22:50	1.0	1.0			1	1	
096	156_096	CCV	PEST_2			06-JUN-2006 23:08	1.0	1.0	10		1	3	
097	156_097	X	PEST_2			06-JUN-2006 23:25	1.0					3	
098	156_098	PEM	PEM			06-JUN-2006 23:42	1.0	1.0			1	1	
099	156_099	X	HEX			07-JUN-2006 00:00	1.0						
100	156_100	MSS	187122-001	114096	Soil	07-JUN-2006 00:17	1.0	0.6709	2		1		
101	156_101	SAMPLE	187121-006	114096	Soil	07-JUN-2006 00:34	1.0	0.67	2		1		
102	156_102	SAMPLE	187121-007	114096	Soil	07-JUN-2006 00:51	1.0	0.6732	2		1		
103	156_103	SAMPLE	187121-009	114096	Soil	07-JUN-2006 01:09	1.0	0.6745	2		1		
104	156_104	SAMPLE	187121-010	114096	Soil	07-JUN-2006 01:26	1.0	0.6709	2	1	1		
105	156_105	SAMPLE	187121-011	114096	Soil	07-JUN-2006 01:43	1.0	0.6579	2		1		133
106	156_106	SAMPLE	187121-012	114096	Soil	07-JUN-2006 02:01	10.0	0.6658	2		1		
107	156_107	SAMPLE	187121-013	114096	Soil	07-JUN-2006 02:18	5.0	0.6775	2		1		
108	156_108	SAMPLE	187122-002	114096	Soil	07-JUN-2006 02:35	1.0	0.6649	2		1		
109	156_109	SAMPLE	187122-003	114096	Soil	07-JUN-2006 02:52	1.0	0.6596	2		1		
110	156_110	X	HEX			07-JUN-2006 03:10	1.0						
111	156_111	PEM	PEM			07-JUN-2006 03:27	1.0	1.0			1	1	
112	156_112	CCV	PEST_3			07-JUN-2006 03:44	1.0	1.0	3		1	4	
113	156_113	X	PEST_3			07-JUN-2006 04:02	1.0					4	
114	156_114	X	PEM			07-JUN-2006 04:19	1.0					1	
115	156_115	X	HEX			07-JUN-2006 04:36	1.0						
116	156_116	SAMPLE	187122-004	114096	Soil	07-JUN-2006 04:54	1.0	0.6752	2		1		
117	156_117	SAMPLE	187122-005	114096	Soil	07-JUN-2006 05:11	1.0	0.6616	2		1		
118	156_118	SAMPLE	187122-006	114096	Soil	07-JUN-2006 05:28	1.0	0.6696	2		1		
119	156_119	X	HEX			07-JUN-2006 05:45	1.0						
120	156_120	PEM	PEM			07-JUN-2006 06:03	1.0	1.0			1	1	

Stds used: 1=S3206 2=S2827 3=S3283 4=S2996 5=S2997 6=S3111 7=S2828 8=S2823 9=S3067
Flags used: ac=average CCV drift out

SEQUENCE SUMMARY FOR 187137 PEST Water
Curtis & Tompkins Laboratories

Sequence: 246225389 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 05-JUN-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
121	156_121	CCV	PEST_4			07-JUN-2006 06:20	1.0	1.0	1		1	5	
122	156_122	X	PEST_4			07-JUN-2006 06:37	1.0					5	
123	156_123	X	PEM			07-JUN-2006 06:54	1.0					1	
124	156_124	X	HEX			07-JUN-2006 07:12	1.0						
125	156_125	SAMPLE	187125-023	113938	Soil	07-JUN-2006 09:10	200.0	0.6702	1		1		
126	156_126	SAMPLE	187125-026	113938	Soil	07-JUN-2006 09:28	200.0	0.6711	1		1		
127	156_127	SAMPLE	187125-029	113938	Soil	07-JUN-2006 09:45	200.0	0.6671	1		1		
128	156_128	SAMPLE	187125-024	113938	Soil	07-JUN-2006 10:50	1.0	0.6705	1		1		
129	156_129	SAMPLE	187125-027	113938	Soil	07-JUN-2006 11:07	1.0	0.6723	1		1	1:ENDRIN=266.330	
130	156_130	SAMPLE	187125-010	113938	Soil	07-JUN-2006 11:32	100.0	0.6723	1		1		
131	156_131	SAMPLE	187125-011	113938	Soil	07-JUN-2006 11:49	250.0	0.6671	1		1		
132	156_132	SAMPLE	187125-013	113938	Soil	07-JUN-2006 12:07	20.0	0.6691	1		1		
133	156_133	X	HEX			07-JUN-2006 12:32	1.0						
134	156_134	PEM	PEM			07-JUN-2006 12:49	1.0	1.0			1	1	
135	156_135	X	PEST_2			07-JUN-2006 13:06	1.0	1.0	18		1	3 ac	134
136	156_136	CCV	PEST_2			07-JUN-2006 13:26	1.0	1.0	3		1	3	

Stds used: 1=S3206 2=S2827 3=S3283 4=S2996 5=S2997 6=S3111 7=S2828 8=S2823 9=S3067
Flags used: ac=average CCV drift out

SEQUENCE SUMMARY FOR 187137 PEST Water
Curtis & Tompkins Laboratories

Sequence: 246229725 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 08-JUN-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	159_001	X	PRIMER			08-JUN-2006 12:45	1.0						
002	159_002	X	PRIMER			08-JUN-2006 13:02	1.0						
003	159_003	X	PRIMER			08-JUN-2006 13:19	1.0						
004	159_004	X	PRIMER			08-JUN-2006 13:36	1.0						
005	159_005	X	PRIMER			08-JUN-2006 13:54	1.0						
006	159_006	X	PRIMER			08-JUN-2006 14:11	1.0						
007	159_007	X	PRIMER			08-JUN-2006 14:28	1.0						
008	159_008	X	HEX			08-JUN-2006 14:46	1.0						
009	159_009	CCV	PEST_5			08-JUN-2006 15:03	1.0	1.0	1		1	1	
010	159_010	X	PEST_5			08-JUN-2006 15:20	1.0	1.0			1	1 ac	
011	159_011	PEM	PEM			08-JUN-2006 15:37	1.0	1.0			1	2	
012	159_012	X	HEX			08-JUN-2006 17:57	1.0						
013	159_013	BLANK	QC342991	114174	Soil	08-JUN-2006 18:14	1.0	0.6625	5		1		
014	159_014	BLANK	QC342592	114080	Water	08-JUN-2006 18:31	1.0	0.01	4		1		
015	159_015	LCS	QC342992	114174	Soil	08-JUN-2006 18:49	1.0						135
016	159_016	BS	QC342593	114080	Water	08-JUN-2006 19:06	1.0	0.01	4	1	1		
017	159_017	BSD	QC342594	114080	Water	08-JUN-2006 19:23	1.0	0.01	4	3	1		
018	159_018	SAMPLE	187173-001	114080	Water	08-JUN-2006 19:40	1.0	0.01	4		1		
019	159_019	SAMPLE	187137-001	114080	Water	08-JUN-2006 19:58	1.0	0.009434	4		1		
020	159_020	X	HEX			08-JUN-2006 20:15	1.0						
021	159_021	PEM	PEM			08-JUN-2006 20:32	1.0	1.0			1	2	
022	159_022	X	PEST_4			08-JUN-2006 20:50	1.0	1.0			1	3 ac	
023	159_023	CCV	PEST_4			08-JUN-2006 21:07	1.0	1.0	5		1	3	
024	159_024	X	PEM			08-JUN-2006 21:24	1.0					2	
025	159_025	X	HEX			08-JUN-2006 21:42	1.0						
026	159_026	MS	QC342993	114174	Soil	08-JUN-2006 21:59	5.0						
027	159_027	MSD	QC342994	114174	Soil	08-JUN-2006 22:16	5.0						
028	159_028	SAMPLE	187151-001	114174	Soil	08-JUN-2006 22:34	5.0						
029	159_029	SAMPLE	187151-002	114174	Soil	08-JUN-2006 22:51	5.0						
030	159_030	SAMPLE	187151-003	114174	Soil	08-JUN-2006 23:08	5.0						

Stds used: 1=S3111 2=S3206 3=S2997 4=S2996
Flags used: ac=average CCV drift out

SEQUENCE SUMMARY FOR 187137 PEST Water
Curtis & Tompkins Laboratories

Sequence: 246229725 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 08-JUN-2006
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
031	159_031	SAMPLE	187151-004	114174	Soil	08-JUN-2006 23:26	5.0					
032	159_032	SAMPLE	187151-005	114174	Soil	08-JUN-2006 23:43	5.0					
033	159_033	SAMPLE	187151-006	114174	Soil	09-JUN-2006 00:00	5.0					
034	159_034	SAMPLE	187151-007	114174	Soil	09-JUN-2006 00:18	5.0					
035	159_035	X	HEX			09-JUN-2006 00:35	1.0					
036	159_036	PEM	PEM			09-JUN-2006 00:52	1.0				2	
037	159_037	CCV	PEST_3			09-JUN-2006 01:10	1.0				4	
038	159_038	CCV	PEST_3			09-JUN-2006 01:27	1.0				4	
039	159_039	PEM	PEM			09-JUN-2006 01:44	1.0				2	
040	159_040	X	HEX			09-JUN-2006 02:02	1.0					
041	159_041	SAMPLE	187151-008	114174	Soil	09-JUN-2006 02:19	5.0					
042	159_042	SAMPLE	187151-009	114174	Soil	09-JUN-2006 02:36	5.0					
043	159_043	SAMPLE	187151-010	114174	Soil	09-JUN-2006 02:53	5.0					
044	159_044	SAMPLE	187151-011	114174	Soil	09-JUN-2006 03:11	5.0					
045	159_045	SAMPLE	187151-012	114174	Soil	09-JUN-2006 03:28	5.0					136
046	159_046	MSS	187151-013	114174	Soil	09-JUN-2006 03:45	5.0					
047	159_047	SAMPLE	187151-014	114174	Soil	09-JUN-2006 04:03	5.0					
048	159_048	SAMPLE	187151-015	114174	Soil	09-JUN-2006 04:20	5.0					
049	159_049	SAMPLE	187151-016	114174	Soil	09-JUN-2006 04:37	5.0					
050	159_050	X	HEX			09-JUN-2006 04:55	1.0					
051	159_051	PEM	PEM			09-JUN-2006 05:12	1.0				2	
052	159_052	CCV	PEST_5			09-JUN-2006 05:29	1.0				1	
053	159_053	CCV	PEST_5			09-JUN-2006 05:47	1.0				1	
054	159_054	PEM	PEM			09-JUN-2006 06:04	1.0	1.0		1	2	
055	159_055	X	HEX			09-JUN-2006 06:21	1.0					

Stds used: 1=S3111 2=S3206 3=S2997 4=S2996
Flags used: ac=average CCV drift out

REPORTING SUMMARY FOR 187137 8081 Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
187137-001	alpha-BHC	GC21	A	06/08/06 19:58
187137-001	beta-BHC	GC21	A	06/08/06 19:58
187137-001	gamma-BHC	GC21	A	06/08/06 19:58
187137-001	delta-BHC	GC21	A	06/08/06 19:58
187137-001	Heptachlor	GC21	A	06/08/06 19:58
187137-001	Aldrin	GC21	A	06/08/06 19:58
187137-001	Heptachlor epoxide	GC21	A	06/08/06 19:58
187137-001	Endosulfan I	GC21	A	06/08/06 19:58
187137-001	Dieldrin	GC21	A	06/08/06 19:58
187137-001	4,4'-DDE	GC21	A	06/08/06 19:58
187137-001	Endrin	GC21	A	06/08/06 19:58
187137-001	Endosulfan II	GC21	A	06/08/06 19:58
187137-001	Endosulfan sulfate	GC21	A	06/08/06 19:58
187137-001	4,4'-DDD	GC21	A	06/08/06 19:58
187137-001	4,4'-DDT	GC21	A	06/08/06 19:58
187137-001	alpha-Chlordane	GC21	A	06/08/06 19:58
187137-001	gamma-Chlordane	GC21	A	06/08/06 19:58
187137-001	Methoxychlor	GC21	A	06/08/06 19:58
187137-001	Endrin ketone	GC21	A	06/08/06 19:58
187137-001	Toxaphene	GC21	A	06/08/06 19:58
187137-001	TCMX	GC21	A	06/08/06 19:58
187137-001	Decachlorobiphenyl	GC21	A	06/08/06 19:58
QC342592	alpha-BHC	GC21	A	06/08/06 18:31
QC342592	beta-BHC	GC21	A	06/08/06 18:31
QC342592	gamma-BHC	GC21	A	06/08/06 18:31
QC342592	delta-BHC	GC21	A	06/08/06 18:31
QC342592	Heptachlor	GC21	A	06/08/06 18:31
QC342592	Aldrin	GC21	A	06/08/06 18:31
QC342592	Heptachlor epoxide	GC21	A	06/08/06 18:31
QC342592	Endosulfan I	GC21	A	06/08/06 18:31
QC342592	Dieldrin	GC21	A	06/08/06 18:31
QC342592	4,4'-DDE	GC21	A	06/08/06 18:31
QC342592	Endrin	GC21	A	06/08/06 18:31
QC342592	Endosulfan II	GC21	A	06/08/06 18:31
QC342592	Endosulfan sulfate	GC21	A	06/08/06 18:31
QC342592	4,4'-DDD	GC21	A	06/08/06 18:31
QC342592	4,4'-DDT	GC21	A	06/08/06 18:31
QC342592	alpha-Chlordane	GC21	A	06/08/06 18:31
QC342592	gamma-Chlordane	GC21	A	06/08/06 18:31
QC342592	Methoxychlor	GC21	A	06/08/06 18:31
QC342592	Endrin ketone	GC21	A	06/08/06 18:31
QC342592	Toxaphene	GC21	A	06/08/06 18:31
QC342592	TCMX	GC21	A	06/08/06 18:31
QC342592	Decachlorobiphenyl	GC21	A	06/08/06 18:31
QC342593	gamma-BHC	GC21	A	06/08/06 19:06
QC342593	Heptachlor	GC21	A	06/08/06 19:06
QC342593	Aldrin	GC21	A	06/08/06 19:06
QC342593	Dieldrin	GC21	A	06/08/06 19:06
QC342593	Endrin	GC21	A	06/08/06 19:06
QC342593	4,4'-DDT	GC21	A	06/08/06 19:06
QC342593	TCMX	GC21	A	06/08/06 19:06
QC342593	Decachlorobiphenyl	GC21	A	06/08/06 19:06

REPORTING SUMMARY FOR 187137 8081 Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC342594	gamma-BHC	GC21	A	06/08/06 19:23
QC342594	Heptachlor	GC21	A	06/08/06 19:23
QC342594	Aldrin	GC21	A	06/08/06 19:23
QC342594	Dieldrin	GC21	A	06/08/06 19:23
QC342594	Endrin	GC21	A	06/08/06 19:23
QC342594	4,4'-DDT	GC21	A	06/08/06 19:23
QC342594	TCMX	GC21	A	06/08/06 19:23
QC342594	Decachlorobiphenyl	GC21	A	06/08/06 19:23

Curtis & Tompkins Laboratories **Sample Preparation Summary** **07-JUN-2006 08:37**

Batch Number : 114080
Date Extracted: 02-JUN-2006
Extracted by : Matthew Josh McManus
Prep Method : 3520C

Analysis : 8081
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S3593A
Spike #2 ID : S3474A
Spike #3 ID :
SOP Version : 8081w_rv14

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
187137-001		Treadwell & Rollo	Water	1060	mL	10	0.009434	1	6	.025	0		8081		
187173-001		LFR Levine Fricke	Water	1000	mL	10	0.010000	1	6	.025	0		8081		
QC342592	BLANK		Water	1000	mL	10	0.010000	1		.025	0		8081		
QC342593	BS		Water	1000	mL	10	0.010000	1		.025	.025		8081		
QC342594	BSD		Water	1000	mL	10	0.010000	1		.025	.025		8081		

Prep Chemist: _____ Reviewed By: _____ Date: 6/7/06

Relinquished By: _____ Received By: _____ Date: 6/8/06

Curtis & Tompkins, Ltd

8081 WATER PREP LOG

BK2210

LIMS Batch No: 114080
LIMS Analysis: 8081
Extracted by: MJM
Date Extracted: 6/2/06

Extraction Method:
- ☐ EPA 3510c sep. funnel
- ☒ EPA 3520c cont. L/L
- ☐ _____

Cleanup Method (if needed):
- ☐ EPA 3640a GPC
- ☐ EPA 3620b Florisil
- ☐ _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
187137-001K	1060	6	10.0		
187173-001F	1000	↓	↓		
MB QC342592	↓	N/A	↓		
BS 93	↓	↓	↓		
BSD 94	↓	↓	↓		

JOM 6/7/06

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.025 mL of surrogate solution was added to all samples	53593A	6/2/06 MJM
0.025 mL of matrix spiking solution was added to all spikes	53474A	↓
☒ Samples continuously extracted with about 450 mL of CH_2Cl_2	EM46110	↓
Extraction Start Time:	1555	↓
Extraction End Time:	0957	6/3/06 RR
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	JOM 6/7/06
Extracts filtered through baked, CH_2Cl_2-rinsed ~~powdered~~ gran Na_2SO_4	EM45091549	↓
Exchanged 2x with Hexane	CQ054	↓
Concentrated: ☒ to volumes as noted above ☐ to clean-up volume	✓	↓
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Florisil	NA	↓

MJM 6/2/06
Extraction Chemist Date

Contined from Page —
Continued on Page —

Jennie Chee 6/7/06
Reviewed by Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8081A Water
As of 06/20/06

Analyte	Units	GC16 A	GC16 B	GC21 A	GC21 B	GC23 A	GC23 B
gamma-BHC	ug/L	0.0032	0.0025	0.0065	0.0039	0.0029	0.0039
Heptachlor	ug/L	0.0057	0.0061	0.0083	0.0056	0.0029	0.0055
Aldrin	ug/L	0.0066	0.0066	0.0094	0.0070	0.0062	0.0077
Dieldrin	ug/L	0.0074	0.0070	0.011	0.0051	0.0041	0.0097
Endrin	ug/L	0.0095	0.0083	0.012	0.011	0.0054	0.011
4,4'-DDT	ug/L	0.011	0.0099	0.012	0.0071	0.0088	0.0087
alpha-BHC	ug/L	0.0029	0.0027	0.0063	0.0040	0.0032	0.0049
beta-BHC	ug/L	0.0033	0.0052	0.0061	0.011	0.0029	0.0055
delta-BHC	ug/L	0.0040	0.0026	0.0065	0.0023	0.0018	0.0041
Heptachlor epoxide	ug/L	0.0033	0.0032	0.0066	0.0097	0.0028	0.0044
gamma-Chlordane	ug/L	0.0041	0.0037	0.0064	0.011	0.0020	0.0042
alpha-Chlordane	ug/L	0.0045	0.0036	0.010	0.0052	0.0023	0.0052
Endosulfan I	ug/L	0.0043	0.0032	0.0062	0.0033	0.0026	0.0048
4,4'-DDE	ug/L	0.010	0.0082	0.011	0.0057	0.0045	0.0097
Endosulfan II	ug/L	0.0088	0.0073	0.013	0.0077	0.0066	0.0097
Endosulfan sulfate	ug/L	0.015	0.0087	0.0096	0.0054	0.0054	0.0093
4,4'-DDD	ug/L	0.0088	0.0090	0.011	0.0096	0.0033	0.010
Endrin aldehyde	ug/L	0.0084	0.0086	0.010	0.0092	0.0052	0.0088
Chlordane (Technical)	ug/L	0.19	0.19	0.26	0.21	0.17	0.21
Methoxychlor	ug/L	0.057	0.080	0.050	0.018	0.043	0.051
Endrin ketone	ug/L	0.027	0.0095	0.0083	0.023	0.0051	0.015
Toxaphene	ug/L	0.39	0.34	0.49	0.26	0.54	0.29

POLYAROMATIC HYDROCARBONS

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	DW053006B	Batch#:	114177
Lab ID:	187137-001	Sampled:	05/30/06
Matrix:	Water	Received:	05/30/06
Units:	ug/L	Prepared:	06/06/06
Diln Fac:	1.000	Analyzed:	06/08/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.02
Fluoranthene	ND	0.38	0.01
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	95	65-135
1-Methylnaphthalene (F)	98	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC343001	Batch#:	114177
Matrix:	Water	Prepared:	06/06/06
Units:	ug/L	Analyzed:	06/08/06

Analyte	Result	RL	MDL
Naphthalene	ND	1.0	
Acenaphthylene	ND	2.0	
Acenaphthene	ND	1.0	
Fluorene	ND	1.0	
Phenanthrene	ND	0.50	
Anthracene	ND	0.50	0.02
Fluoranthene	ND	0.40	0.01
Pyrene	ND	0.20	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	90	65-135
1-Methylnaphthalene (F)	93	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Matrix:	Water	Batch#:	114177
Units:	ug/L	Prepared:	06/06/06
Diln Fac:	1.000	Analyzed:	06/08/06

Type: BS Lab ID: QC343002

Analyte	Spiked	Result	%REC	Limits
Naphthalene	10.00	8.993	90	50-135
Fluorene	2.000	1.869	93	65-135
Pyrene	1.000	0.9737	97	65-135
Benzo(a)pyrene	1.000	0.9758	98	65-135

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	87	65-135
1-Methylnaphthalene (F)	90	65-135

Type: BSD Lab ID: QC343003

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Naphthalene	10.00	8.925	89	50-135	1	35
Fluorene	2.000	1.812	91	65-135	3	35
Pyrene	1.000	0.9294	93	65-135	5	35
Benzo(a)pyrene	1.000	0.9372	94	65-135	4	35

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	87	65-135
1-Methylnaphthalene (F)	90	65-135

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187137 HPLC Water: EPA 8310

Inst : HPLC04
Calnum : 296199754001
Units : ug/L

Date : 18-MAY-2006 19:52
X Axis : R

Reviewer: MCH

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	13800006	296199754006		18-MAY-2006 19:52	S3065
L2	13800007	296199754007		18-MAY-2006 20:24	S3064
L3	13800008	296199754008		18-MAY-2006 20:56	S3063
L4	13800009	296199754009		18-MAY-2006 21:27	S3062
L5	13800010	296199754010		18-MAY-2006 21:59	S3061
L6	13800011	296199754011		18-MAY-2006 22:31	S3060
L7	13800012	296199754012		18-MAY-2006 23:02	S3059

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Naphthalene	1	0.0127	0.0132	0.0131	0.0132	0.0131	0.0130	0.0129	LINR	-52.228	77.4002		0.0130	1.000	0.99	20	
Acenaphthylene	1	0.0092	0.0093	0.0094	0.0095	0.0094	0.0092	0.0091	LINR	-269.75	109.800		0.0093	1.000	0.99	20	
Acenaphthene	1	0.0052	0.0052	0.0052	0.0054	0.0053	0.0052	0.0051	LINR	-189.44	195.810		0.0052	1.000	0.99	20	
Fluorene	1	0.0627	0.0624	0.0622	0.0635	0.0628	0.0627	0.0625	LINR	-5.8158	16.0057		0.0627	1.000	0.99	20	
Phenanthrene	1	0.1770	0.1795	0.1810	0.1828	0.1804	0.1795	0.1796	LINR	-2.6724	5.57221		0.1800	1.000	0.99	20	
Anthracene	1	0.4152	0.4253	0.4257	0.4310	0.4281	0.4249	0.4232	LINR	-4.5965	2.36313		0.4248	1.000	0.99	20	
Fluoranthene	1	0.0412	0.0411	0.0410	0.0412	0.0406	0.0406	0.0407	LINR	-3.4660	24.6116		0.0409	1.000	0.99	20	
Pyrene	1	0.0368	0.0344	0.0333	0.0343	0.0336	0.0336	0.0338	LINR	-0.0362	29.6394		0.0342	1.000	0.99	20	
Benzo(a)anthracene	1	0.0900	0.0968	0.0940	0.0956	0.0948	0.0945	0.0948	LINR	0.57638	10.5497		0.0943	1.000	0.99	20	
Chrysene	1	0.1270	0.1360	0.1344	0.1356	0.1346	0.1336	0.1335	LINR	-3.4437	7.49542		0.1335	1.000	0.99	20	
Benzo(b)fluoranthene	1	0.1037	0.1043	0.1063	0.1075	0.1067	0.1065	0.1063	LINR	-2.9110	9.40726		0.1059	1.000	0.99	20	
Benzo(k)fluoranthene	1	0.0788	0.0790	0.0823	0.0837	0.0837	0.0836	0.0835	LINR	1.73999	11.9711		0.0821	1.000	0.99	20	
Benzo(a)pyrene	1	0.0878	0.0823	0.0860	0.0884	0.0876	0.0881	0.0886	LINR	6.09778	11.2895		0.0870	1.000	0.99	20	
Dibenz(a,h)anthracene	1	0.0186	0.0202	0.0213	0.0218	0.0220	0.0221	0.0223	LINR	23.8574	44.7933		0.0212	1.000	0.99	20	
Benzo(g,h,i)perylene	1	0.0317	0.0340	0.0353	0.0359	0.0358	0.0363	0.0368	LINR	28.4784	27.1931		0.0351	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	1	0.0880	0.0965	0.0978	0.1005	0.0999	0.1003	0.1005	LINR	4.90163	9.94487		0.0976	1.000	0.99	20	
1-Methylnaphthalene (UV)	1	0.0086	0.0086	0.0086	0.0087	0.0085	0.0084	0.0084	LINR	-341.04	119.464		0.0085	1.000	0.99	20	
Acenaphthylene	2	0.0277	0.0280	0.0280	0.0283	0.0280	0.0278	0.0278	LINR	-84.965	36.0430		0.0279	1.000	0.99	20	
1-Methylnaphthalene (UV)	2	0.0030	0.0031	0.0031	0.0031	0.0031	0.0030	0.0030	LINR	-288.17	330.724		0.0031	1.000	0.99	20	
Naphthalene	3	0.0110	0.0111	0.0111	0.0112	0.0110	0.0110	0.0109	LINR	-50.394	91.4049		0.0110	1.000	0.99	20	
Acenaphthene	3	0.0234	0.0236	0.0235	0.0239	0.0233	0.0231	0.0226	LINR	-178.43	44.2064		0.0233	1.000	0.99	20	
Fluorene	3	0.1279	0.1273	0.1274	0.1284	0.1265	0.1243	0.1225	LINR	-32.341	8.16717		0.1263	1.000	0.99	20	
Phenanthrene	3	0.1354	0.1366	0.1364	0.1377	0.1361	0.1356	0.1354	LINR	-3.3588	7.38874		0.1362	1.000	0.99	20	
Anthracene	3	0.4199	0.4224	0.4266	0.4322	0.4290	0.4269	0.4268	LINR	-1.7330	2.34358		0.4263	1.000	0.99	20	
Fluoranthene	3	0.0382	0.0384	0.0386	0.0392	0.0388	0.0387	0.0387	LINR	-1.5194	25.8283		0.0387	1.000	0.99	20	
Pyrene	3	0.1308	0.1311	0.1332	0.1355	0.1333	0.1340	0.1343	LINR	1.83815	7.44901		0.1332	1.000	0.99	20	

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Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Benzo(a)anthracene	3	0.1489	0.1515	0.1523	0.1536	0.1520	0.1512	0.1508	LINR	-3.9150	6.63150		0.1515	1.000	0.99	20	
Chrysene	3	0.1787	0.1811	0.1815	0.1828	0.1806	0.1793	0.1780	LINR	-7.8225	5.62009		0.1803	1.000	0.99	20	
Benzo(b)fluoranthene	3	0.0628	0.0642	0.0647	0.0654	0.0646	0.0644	0.0641	LINR	-9.1941	15.6059		0.0643	1.000	0.99	20	
Benzo(k)fluoranthene	3	0.3857	0.3920	0.3949	0.3978	0.3926	0.3879	0.3820	LINR	-13.766	2.61710		0.3904	1.000	0.99	20	
Benzo(a)pyrene	3	0.2089	0.2127	0.2141	0.2165	0.2143	0.2129	0.2128	LINR	-3.0160	4.70028		0.2132	1.000	0.99	20	
Dibenz(a,h)anthracene	3	0.0303	0.0301	0.0308	0.0318	0.0315	0.0316	0.0317	LINR	9.18553	31.5065		0.0311	1.000	0.99	20	
Benzo(g,h,i)perylene	3	0.0608	0.0590	0.0602	0.0618	0.0617	0.0624	0.0631	LINR	24.3223	15.8303		0.0613	1.000	0.99	20	
Indeno(1,2,3-cd)pyrene	3	0.0962	0.0968	0.0965	0.0983	0.0975	0.0975	0.0971	LINR	-1.8455	10.2902		0.0971	1.000	0.99	20	
1-Methylnaphthalene (F)	3	0.0122	0.0123	0.0123	0.0124	0.0122	0.0120	0.0118	LINR	-661.87	84.7083		0.0122	1.000	0.99	20	

Instrument amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

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Calibration Table

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NEW ICAL FOLLOWING REPLACEMENT OF UV LAMP. 22MAY2006

HPLC04 METHOD 8310

Calib. Data Modified : 5/22/2006 4:16:03 PM

Calculate : External Standard
Based on : Peak Area

Rel. Reference Window : 1.000 %
Abs. Reference Window : 0.200 min
Rel. Non-ref. Window : 1.000 %
Abs. Non-ref. Window : 0.250 min
Do not use Multiplier & Dilution Factor with ISTDs
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Signal 1: DAD1 A, Sig=254,4 Ref=480,80
Signal 2: DAD1 B, Sig=305,4 Ref=480,80
Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
4.752	1	1	500.00000	6.35383	78.69275			Naphthalene
		2	1000.00000	13.15704	76.00496			
		3	2500.00000	32.77972	76.26668			
		4	5000.00000	66.00784	75.74857			
		5	1.00000e4	130.71696	76.50116			
		6	2.50000e4	323.77454	77.21423			
		7	5.00000e4	646.40033	77.35145			
4.790	3	1	500.00000	5.48376	91.17835			Naphthalene
		2	1000.00000	11.08296	90.22864			
		3	2500.00000	27.68407	90.30465			
		4	5000.00000	55.85367	89.51963			
		5	1.00000e4	110.44406	90.54357			
		6	2.50000e4	274.47531	91.08287			
		7	5.00000e4	547.22638	91.36986			
6.004	1	1	1000.00000	9.18307	108.89603			Acenaphthylene
		2	2000.00000	18.68859	107.01715			
		3	5000.00000	46.93712	106.52549			
		4	1.00000e4	94.78723	105.49944			
		5	2.00000e4	187.08742	106.90190			
		6	5.00000e4	462.20984	108.17598			
		7	1.00000e5	910.50854	109.82873			
6.005	2	1	1000.00000	27.65381	36.16138			Acenaphthylene
		2	2000.00000	56.04304	35.68686			
		3	5000.00000	140.16672	35.67181			

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		4	1.00000e4	282.77841	35.36338			
		5	2.00000e4	559.61334	35.73896			
		6	5.00000e4	1390.57104	35.95645			
		7	1.00000e5	2775.66528	36.02740			
6.773	1	1	2000.00000	17.19066	116.34227			1-Methylnaphthalene (UV)
		2	4000.00000	34.41462	116.22969			
		3	1.00000e4	85.94093	116.35899			
		4	2.00000e4	173.09207	115.54544			
		5	4.00000e4	340.84924	117.35394			
		6	1.00000e5	839.48529	119.12061			
		7	2.00000e5	1676.38977	119.30400			
6.774	2	1	2000.00000	6.06443	329.79188			1-Methylnaphthalene (UV)
		2	4000.00000	12.31411	324.83055			
		3	1.00000e4	30.67977	325.94769			
		4	2.00000e4	61.92251	322.98433			
		5	4.00000e4	122.83121	325.65012			
		6	1.00000e5	304.35931	328.55903			
		7	2.00000e5	604.82648	330.67335			
6.811	3	1	2000.00000	24.40978	81.93437			1-Methylnaphthalene (F)
		2	4000.00000	49.21495	81.27612			
		3	1.00000e4	122.94567	81.33674			
		4	2.00000e4	247.30377	80.87220			
		5	4.00000e4	488.69351	81.85089			
		6	1.00000e5	1199.20923	83.38828			
		7	2.00000e5	2361.67969	84.68549			
7.233	1	1	500.00000	5.96680	83.79698			2-Methylnaphthalene
		2	1000.00000	11.99022	83.40130			
		3	2500.00000	29.85911	83.72654			
		4	5000.00000	60.88431	82.12296			
		5	1.00000e4	120.14920	83.22985			
		6	2.50000e4	297.53644	84.02332			
7.269	3	1	500.00000	7.74911	64.52351			2-Methylnaphthalene
		2	1000.00000	15.52372	64.41757			
		3	2500.00000	38.81281	64.41172			
		4	5000.00000	78.28068	63.87272			
		5	1.00000e4	154.78474	64.60585			
		6	2.50000e4	382.29327	65.39482			
7.613	1	1	500.00000	2.59693	192.53514			Acenaphthene
		2	1000.00000	5.17957	193.06637			
		3	2500.00000	13.08239	191.09658			
		4	5000.00000	26.89059	185.93866			
		5	1.00000e4	53.03941	188.53907			
		6	2.50000e4	131.16444	190.60043			
		7	5.00000e4	254.87729	196.17283			
7.651	3	1	500.00000	11.70526	42.71583			Acenaphthene
		2	1000.00000	23.56936	42.42797			
		3	2500.00000	58.84945	42.48128			
		4	5000.00000	119.32713	41.90162			
		5	1.00000e4	233.17419	42.88639			
		6	2.50000e4	577.51837	43.28867			
		7	5.00000e4	1130.49866	44.22827			
8.138	1	1	100.00000	6.27447	15.93759			Fluorene
		2	200.00000	12.48572	16.01830			
		3	500.00000	31.10701	16.07355			
		4	1000.00000	63.54686	15.73642			
		5	2000.00000	125.67238	15.91440			
		6	5000.00000	313.25665	15.96135			
		7	1.00000e4	624.78467	16.00551			
8.176	3	1	100.00000	12.79477	7.81570			Fluorene
		2	200.00000	25.46982	7.85243			
		3	500.00000	63.67719	7.85210			
		4	1000.00000	128.43744	7.78589			
		5	2000.00000	252.91112	7.90792			

RetTime [min]	Lvl Sig		Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		6	5000.00000	621.43634	8.04588			
		7	1.00000e4	1224.89038	8.16400			
9.260	1	1	50.00000	8.85156	5.64872			Phenanthrene
		2	100.00000	17.94612	5.57224			
		3	250.00000	45.25932	5.52372			
		4	500.00000	91.37579	5.47191			
		5	1000.00000	180.36794	5.54422			
		6	2500.00000	448.64795	5.57230			
		7	5000.00000	897.85052	5.56886			
9.297	3	1	50.00000	6.77231	7.38301			Phenanthrene
		2	100.00000	13.66179	7.31969			
		3	250.00000	34.08815	7.33393			
		4	500.00000	68.83022	7.26425			
		5	1000.00000	136.09827	7.34763			
		6	2500.00000	338.96707	7.37535			
		7	5000.00000	676.96960	7.38586			
10.285	1	1	50.00000	20.75930	2.40856			Anthracene
		2	100.00000	42.52945	2.35131			
		3	250.00000	106.41690	2.34925			
		4	500.00000	215.48436	2.32035			
		5	1000.00000	428.09290	2.33594			
		6	2500.00000	1062.12512	2.35377			
		7	5000.00000	2115.98950	2.36296			
10.323	3	1	50.00000	20.99740	2.38125			Anthracene
		2	100.00000	42.23863	2.36750			
		3	250.00000	106.64105	2.34431			
		4	500.00000	216.08749	2.31388			
		5	1000.00000	428.97952	2.33111			
		6	2500.00000	1067.30798	2.34234			
		7	5000.00000	2133.87500	2.34316			
11.435	1	1	100.00000	4.12269	24.25600			Fluoranthene
		2	200.00000	8.21146	24.35620			
		3	500.00000	20.48045	24.41353			
		4	1000.00000	41.23911	24.24883			
		5	2000.00000	81.15630	24.64380			
		6	5000.00000	203.07642	24.62127			
		7	1.00000e4	406.56757	24.59616			
11.472	3	1	100.00000	3.82083	26.17234			Fluoranthene
		2	200.00000	7.68846	26.01302			
		3	500.00000	19.30645	25.89808			
		4	1000.00000	39.23374	25.48827			
		5	2000.00000	77.62599	25.76457			
		6	5000.00000	193.25951	25.87195			
		7	1.00000e4	387.35989	25.81579			
12.208	1	1	50.00000	1.83995	27.17468			Pyrene
		2	100.00000	3.43952	29.07386			
		3	250.00000	8.33079	30.00916			
		4	500.00000	17.14116	29.16955			
		5	1000.00000	33.56740	29.79081			
		6	2500.00000	83.91055	29.79363			
		7	5000.00000	168.92415	29.59908			
12.245	3	1	50.00000	6.53807	7.64751			Pyrene
		2	100.00000	13.11404	7.62541			
		3	250.00000	33.29245	7.50921			
		4	500.00000	67.75372	7.37967			
		5	1000.00000	133.33412	7.49996			
		6	2500.00000	334.87701	7.46543			
		7	5000.00000	671.27612	7.44850			
15.039	1	1	50.00000	4.49803	11.11598			Benzo(a)anthracene
		2	100.00000	9.67921	10.33142			
		3	250.00000	23.48936	10.64311			
		4	500.00000	47.78680	10.46314			
		5	1000.00000	94.79131	10.54949			

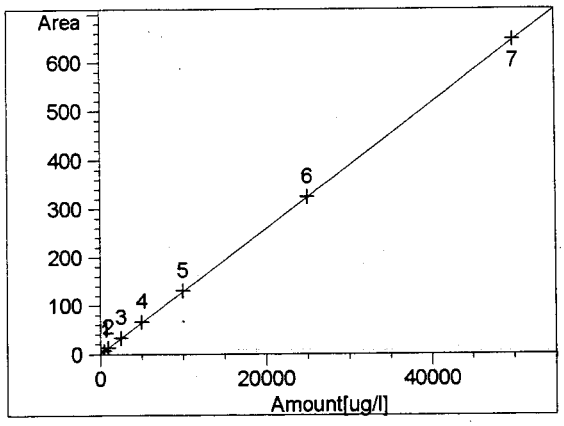
RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		6	2500.00000	236.18423	10.58496			
		7	5000.00000	474.20624	10.54394			
15.077	3	1	50.00000	7.44724	6.71390			Benzo(a)anthracene
		2	100.00000	15.15430	6.59879			
		3	250.00000	38.07673	6.56569			
		4	500.00000	76.80959	6.50960			
		5	1000.00000	151.99316	6.57924			
		6	2500.00000	377.89438	6.61561			
		7	5000.00000	754.23340	6.62925			
15.539	1	1	50.00000	6.35061	7.87325			Chrysene
		2	100.00000	13.59609	7.35506			
		3	250.00000	33.59677	7.44119			
		4	500.00000	67.79062	7.37565			
		5	1000.00000	134.58353	7.43033			
		6	2500.00000	334.09467	7.48291			
		7	5000.00000	667.30255	7.49285			
15.577	3	1	50.00000	8.93709	5.59467			Chrysene
		2	100.00000	18.11283	5.52095			
		3	250.00000	45.37164	5.51005			
		4	500.00000	91.38473	5.47137			
		5	1000.00000	180.56219	5.53826			
		6	2500.00000	448.13257	5.57871			
		7	5000.00000	889.81403	5.61915			
17.772	1	1	100.00000	10.36747	9.64555			Benzo(b)fluoranthene
		2	200.00000	20.85804	9.58863			
		3	500.00000	53.17228	9.40340			
		4	1000.00000	107.52938	9.29978			
		5	2000.00000	213.44913	9.36991			
		6	5000.00000	532.37317	9.39191			
		7	1.00000e4	1062.87402	9.40845			
17.810	3	1	100.00000	6.27574	15.93439			Benzo(b)fluoranthene
		2	200.00000	12.83850	15.57814			
		3	500.00000	32.34958	15.45615			
		4	1000.00000	65.39377	15.29198			
		5	2000.00000	129.20119	15.47973			
		6	5000.00000	322.01157	15.52739			
		7	1.00000e4	640.72485	15.60732			
18.726	1	1	50.00000	3.94109	12.68686			Benzo(k)fluoranthene
		2	100.00000	7.89588	12.66483			
		3	250.00000	20.57043	12.15337			
		4	500.00000	41.83699	11.95115			
		5	1000.00000	83.72203	11.94429			
		6	2500.00000	208.88004	11.96859			
		7	5000.00000	417.35922	11.98009			
18.764	3	1	50.00000	19.28471	2.59273			Benzo(k)fluoranthene
		2	100.00000	39.20409	2.55075			
		3	250.00000	98.73430	2.53205			
		4	500.00000	198.87831	2.51410			
		5	1000.00000	392.59399	2.54716			
		6	2500.00000	969.84100	2.57774			
		7	5000.00000	1910.04431	2.61774			
19.676	1	1	50.00000	4.38903	11.39205			Benzo(a)pyrene
		2	100.00000	8.22974	12.15105			
		3	250.00000	21.51167	11.62160			
		4	500.00000	44.20454	11.31105			
		5	1000.00000	87.60189	11.41528			
		6	2500.00000	220.13969	11.35643			
		7	5000.00000	442.77490	11.29242			
19.714	3	1	50.00000	10.44253	4.78811			Benzo(a)pyrene
		2	100.00000	21.26584	4.70238			
		3	250.00000	53.53555	4.66979			
		4	500.00000	108.22565	4.61998			
		5	1000.00000	214.33957	4.66549			

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		6	2500.00000	532.33307	4.69631			
		7	5000.00000	1064.23083	4.69823			
21.294	1	1	100.00000	1.86005	53.76185			Dibenz(a,h)anthracene
		2	200.00000	4.03761	49.53425			
		3	500.00000	10.67297	46.84733			
		4	1000.00000	21.81421	45.84168			
		5	2000.00000	44.01789	45.43607			
		6	5000.00000	110.60422	45.20623			
		7	1.00000e4	222.97006	44.84907			
21.332	3	1	100.00000	3.03149	32.98710			Dibenz(a,h)anthracene
		2	200.00000	6.02086	33.21784			
		3	500.00000	15.37518	32.51994			
		4	1000.00000	31.83378	31.41317			
		5	2000.00000	63.06483	31.71339			
		6	5000.00000	158.06801	31.63195			
		7	1.00000e4	317.26797	31.51910			
22.074	1	1	100.00000	3.17288	31.51711			Benzo(g,h,i)perylene
		2	200.00000	6.79410	29.43731			
		3	500.00000	17.66954	28.29729			
		4	1000.00000	35.90152	27.85397			
		5	2000.00000	71.56614	27.94618			
		6	5000.00000	181.34886	27.57117			
		7	1.00000e4	367.56784	27.20586			
22.111	3	1	100.00000	6.08162	16.44298			Benzo(g,h,i)perylene
		2	200.00000	11.79889	16.95075			
		3	500.00000	30.11854	16.60107			
		4	1000.00000	61.84187	16.17027			
		5	2000.00000	123.34122	16.21518			
		6	5000.00000	312.19437	16.01566			
		7	1.00000e4	631.46387	15.83622			
22.588	1	1	50.00000	4.39845	11.36763			Indeno(1,2,3-cd)pyrene
		2	100.00000	9.64680	10.36613			
		3	250.00000	24.43922	10.22946			
		4	500.00000	50.25140	9.94997			
		5	1000.00000	99.94793	10.00521			
		6	2500.00000	250.73134	9.97083			
		7	5000.00000	502.34595	9.95330			
22.626	3	1	50.00000	4.81022	10.39454			Indeno(1,2,3-cd)pyrene
		2	100.00000	9.68046	10.33008			
		3	250.00000	24.11350	10.36764			
		4	500.00000	49.15816	10.17125			
		5	1000.00000	97.53080	10.25317			
		6	2500.00000	243.71762	10.25777			
		7	5000.00000	485.73682	10.29364			

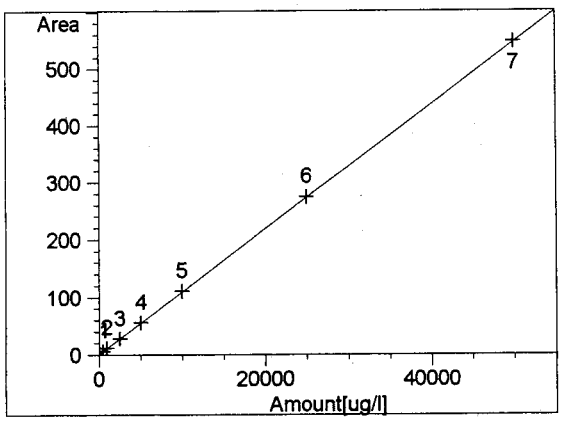
Peak Sum Table

No Entries in table

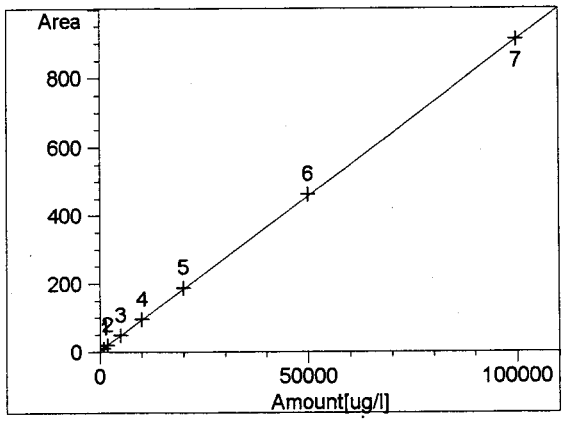
Calibration Curves



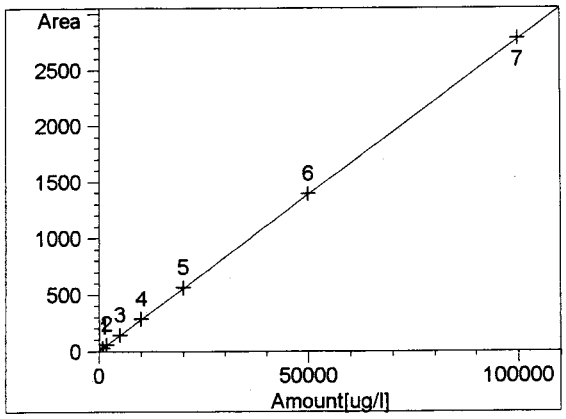
Naphthalene at exp. RT: 4.752
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.65900
Formula: y = mx + b
m: 1.29199e-2
b: 6.74777e-1
x: Amount[ug/l]
y: Area



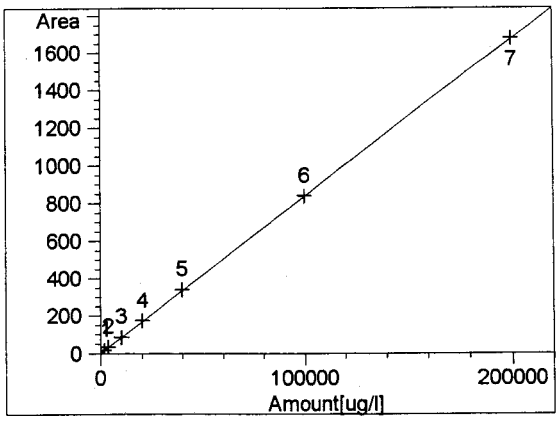
Naphthalene at exp. RT: 4.790
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.52793
Formula: y = mx + b
m: 1.09403e-2
b: 5.51329e-1
x: Amount[ug/l]
y: Area



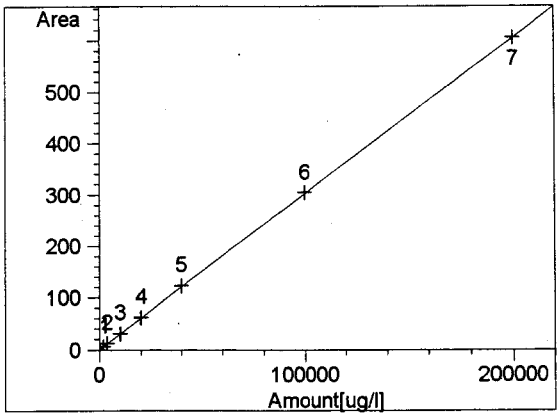
Acenaphthylene at exp. RT: 6.004
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99997
Residual Std. Dev.: 2.99661
Formula: y = mx + b
m: 9.10747e-3
b: 2.45677
x: Amount[ug/l]
y: Area



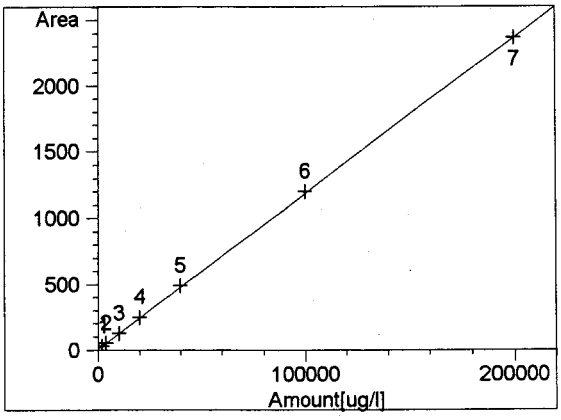
Acenaphthylene at exp. RT: 6.005
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 2.31582
Formula: y = mx + b
m: 2.77446e-2
b: 2.35731
x: Amount[ug/l]
y: Area



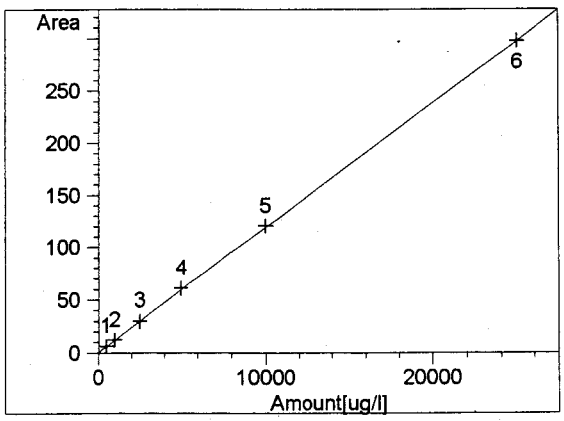
1-Methylnaphthalene (UV) at exp. RT: 6.773
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 2.38438
Formula: y = mx + b
m: 8.37069e-3
b: 2.85473
x: Amount[ug/l]
y: Area



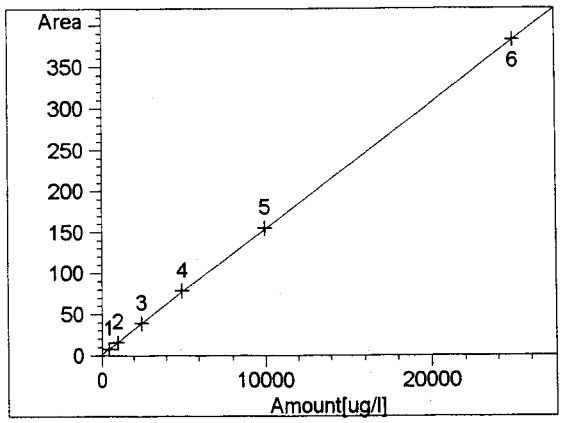
1-Methylnaphthalene (UV) at exp. RT: 6.774
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.95514
Formula: y = mx + b
m: 3.02367e-3
b: 8.71326e-1
x: Amount[ug/l]
y: Area



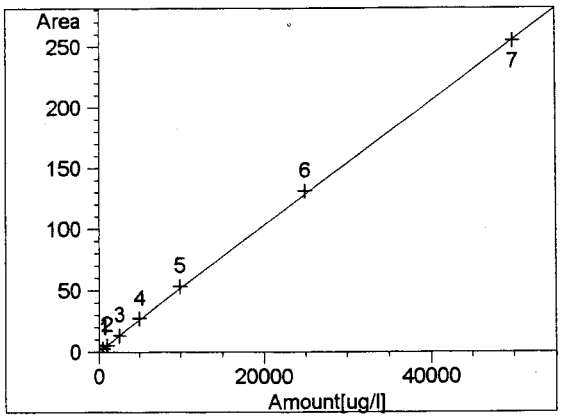
1-Methylnaphthalene (F) at exp. RT: 6.811
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99996
Residual Std. Dev.: 8.34271
Formula: y = mx + b
m: 1.18052e-2
b: 7.81357
x: Amount[ug/l]
y: Area



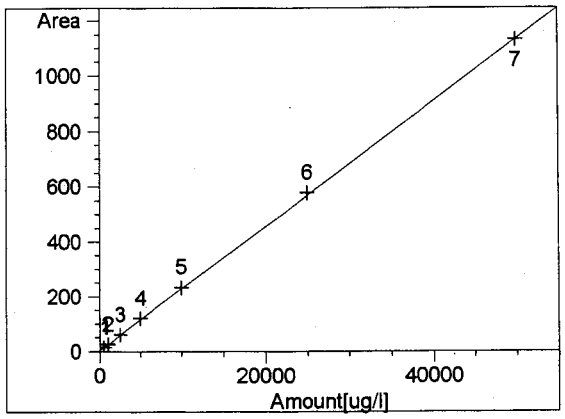
2-Methylnaphthalene at exp. RT: 7.233
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.70066
Formula: y = mx + b
m: 1.18983e-2
b: 4.76749e-1
x: Amount[ug/l]
y: Area



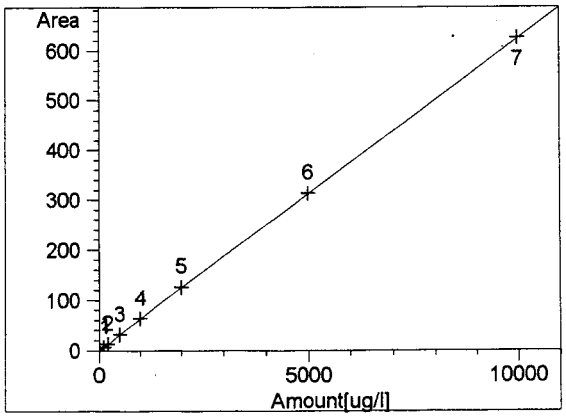
2-Methylnaphthalene at exp. RT: 7.269
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99998
Residual Std. Dev.: 0.95275
Formula: y = mx + b
m: 1.52819e-2
b: 8.39982e-1
x: Amount[ug/l]
y: Area



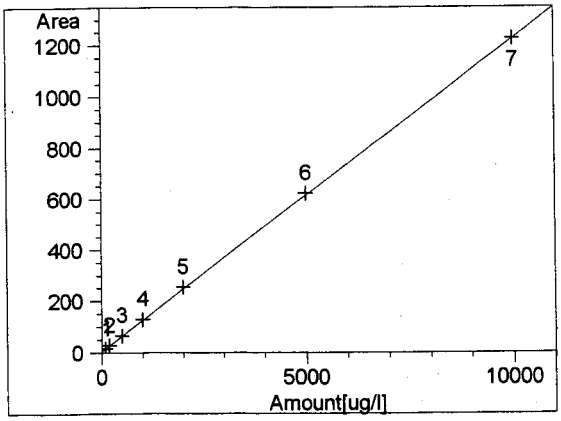
Acenaphthene at exp. RT: 7.613
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99989
Residual Std. Dev.: 1.52771
Formula: y = mx + b
m: 5.10700e-3
b: 9.67465e-1
x: Amount[ug/l]
y: Area



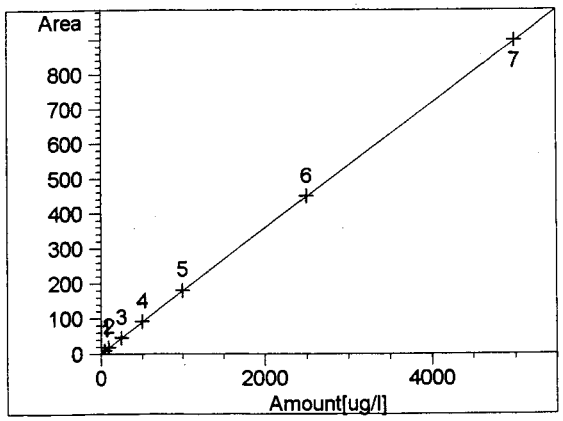
Acenaphthene at exp. RT: 7.651
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99994
Residual Std. Dev.: 4.97058
Formula: y = mx + b
m: 2.26212e-2
b: 4.03630
x: Amount[ug/l]
y: Area



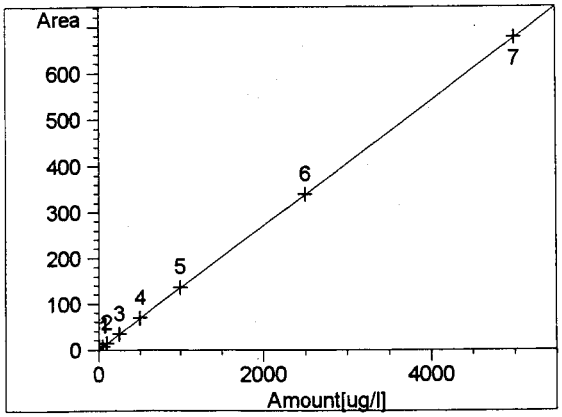
Fluorene at exp. RT: 8.138
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.54815
Formula: y = mx + b
m: 6.24779e-2
b: 3.63360e-1
x: Amount[ug/l]
y: Area



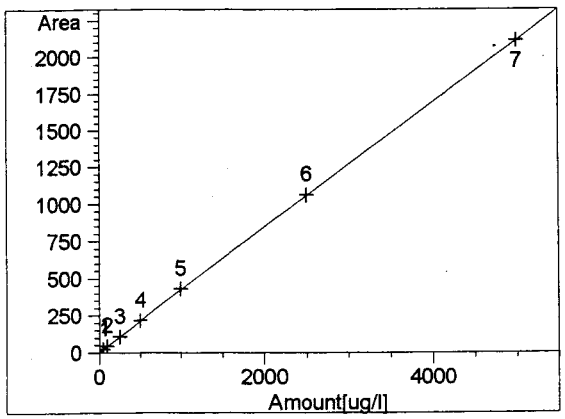
Fluorene at exp. RT: 8.176
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99997
Residual Std. Dev.: 4.08298
Formula: y = mx + b
m: 1.22441e-1
b: 3.95988
x: Amount[ug/l]
y: Area



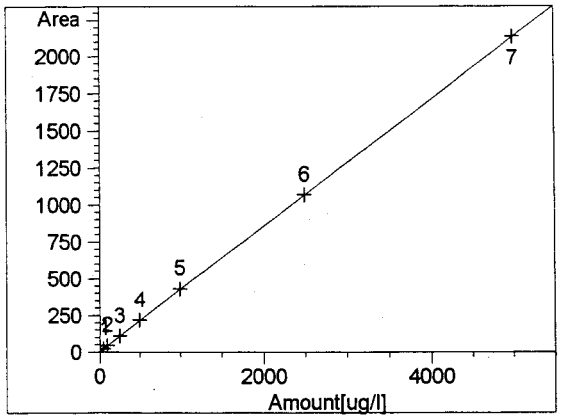
Phenanthrene at exp. RT: 9.260
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.68975
Formula: y = mx + b
m: 1.79462e-1
b: 4.79584e-1
x: Amount[ug/l]
y: Area



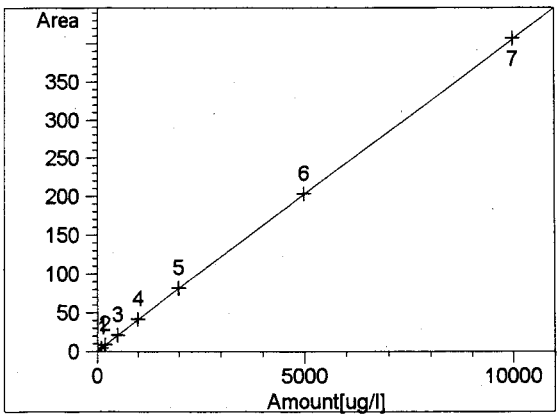
Phenanthrene at exp. RT: 9.297
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.44720
Formula: y = mx + b
m: 1.35341e-1
b: 4.54582e-1
x: Amount[ug/l]
y: Area



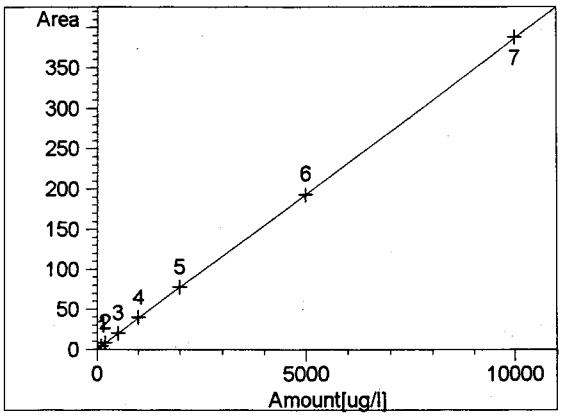
Anthracene at exp. RT: 10.285
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 2.50095
Formula: y = mx + b
m: 4.23168e-1
b: 1.94511
x: Amount[ug/l]
y: Area



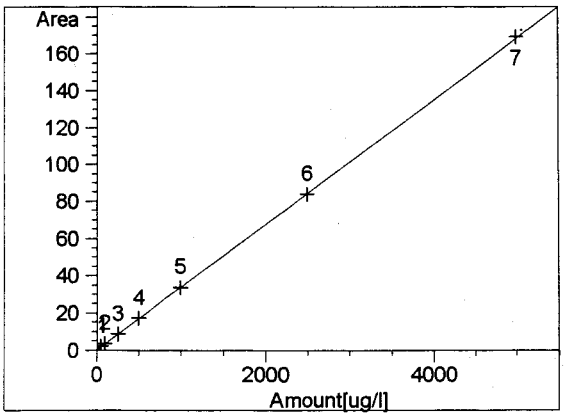
Anthracene at exp. RT: 10.323
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 1.38985
Formula: y = mx + b
m: 4.26697e-1
b: 7.39476e-1
x: Amount[ug/l]
y: Area



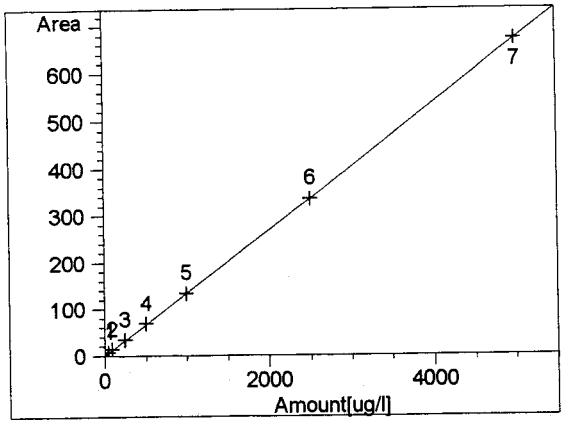
Fluoranthene at exp. RT: 11.435
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.26501
Formula: y = mx + b
m: 4.06313e-2
b: 1.40829e-1
x: Amount[ug/l]
y: Area



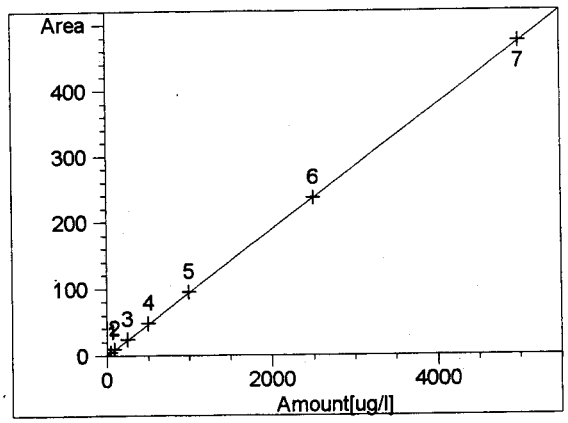
Fluoranthene at exp. RT: 11.472
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.29311
Formula: y = mx + b
m: 3.87172e-2
b: 5.88250e-2
x: Amount[ug/l]
y: Area



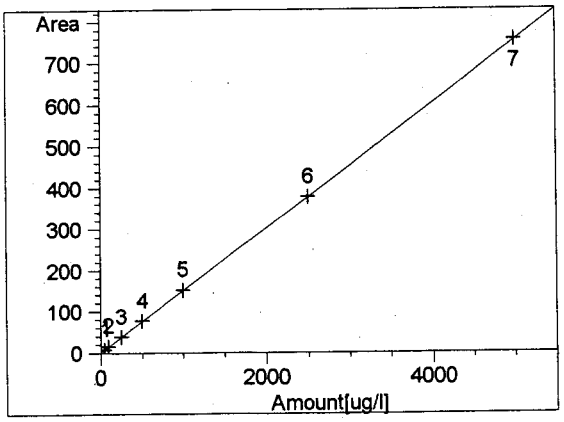
Pyrene at exp. RT: 12.208
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99999
Residual Std. Dev.: 0.27756
Formula: y = mx + b
m: 3.37388e-2
b: 1.22142e-3
x: Amount[ug/l]
y: Area



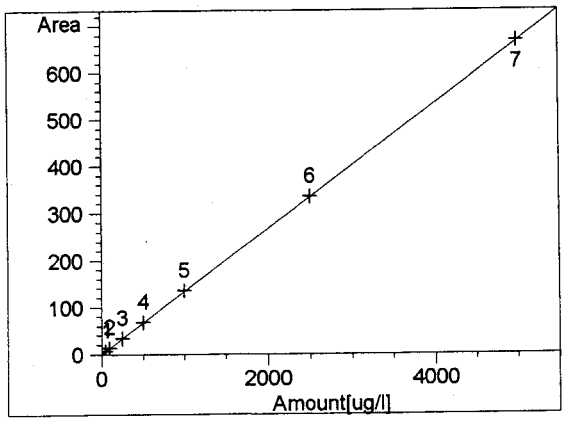
Pyrene at exp. RT: 12.245
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.55665
Formula: y = mx + b
m: 1.34246e-1
b: -2.46762e-1
x: Amount[ug/l]
y: Area



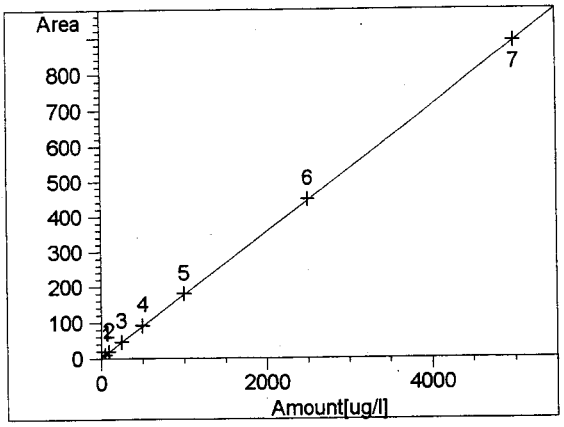
Benzo(a)anthracene at exp. RT: 15.039
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.43917
Formula: y = mx + b
m: 9.47891e-2
b: -5.46320e-2
x: Amount[ug/l]
y: Area



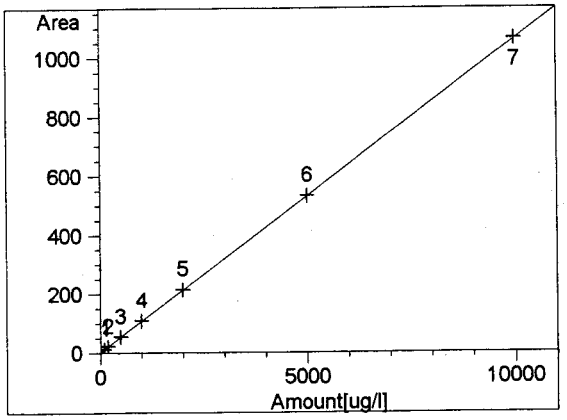
Benzo(a)anthracene at exp. RT: 15.077
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.63754
Formula: y = mx + b
m: 1.50795e-1
b: 5.90358e-1
x: Amount[ug/l]
y: Area



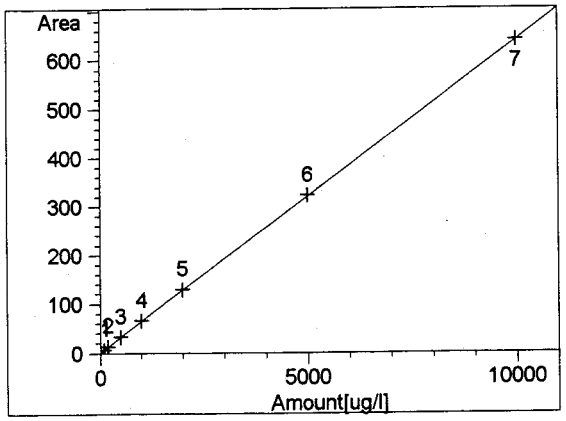
Chrysene at exp. RT: 15.539
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.57474
Formula: y = mx + b
m: 1.33415e-1
b: 4.59439e-1
x: Amount[ug/l]
y: Area



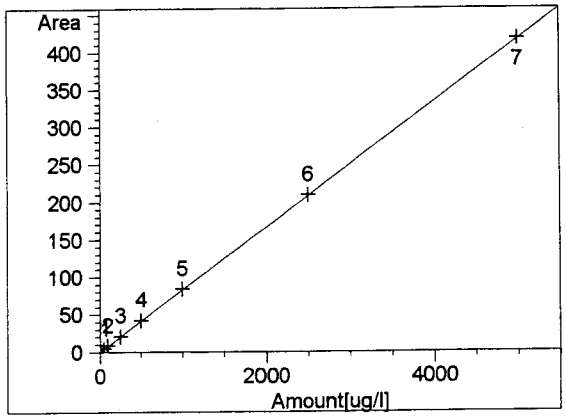
Chrysene at exp. RT: 15.577
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99999
Residual Std. Dev.: 1.48324
Formula: y = mx + b
m: 1.77933e-1
b: 1.39188
x: Amount[ug/l]
y: Area



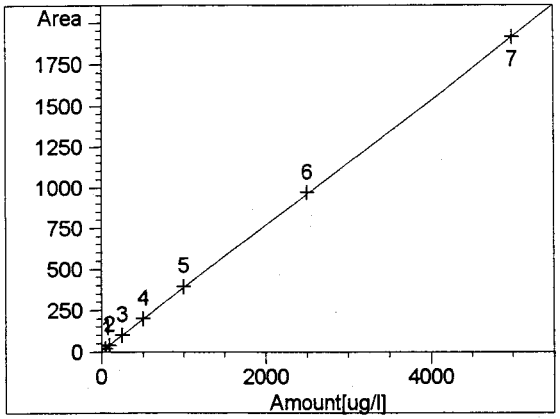
Benzo(b)fluoranthene at exp. RT: 17.772
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.71561
Formula: y = mx + b
m: 1.06301e-1
b: 3.09438e-1
x: Amount[ug/l]
y: Area



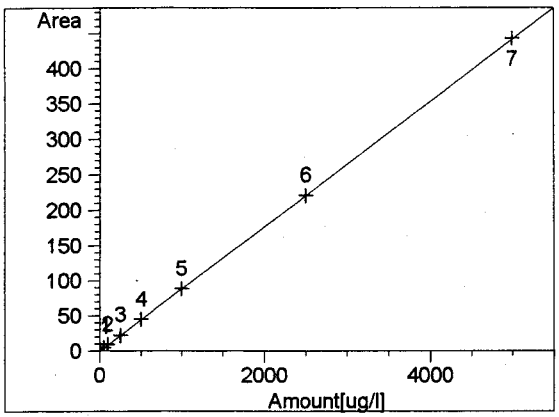
Benzo(b)fluoranthene at exp. RT: 17.810
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.79187
Formula: y = mx + b
m: 6.40783e-2
b: 5.89141e-1
x: Amount[ug/l]
y: Area



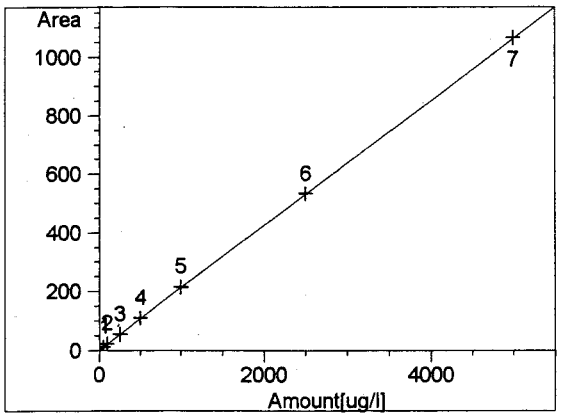
Benzo(k)fluoranthene at exp. RT: 18.726
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.26640
Formula: y = mx + b
m: 8.35344e-2
b: -1.45349e-1
x: Amount[ug/l]
y: Area



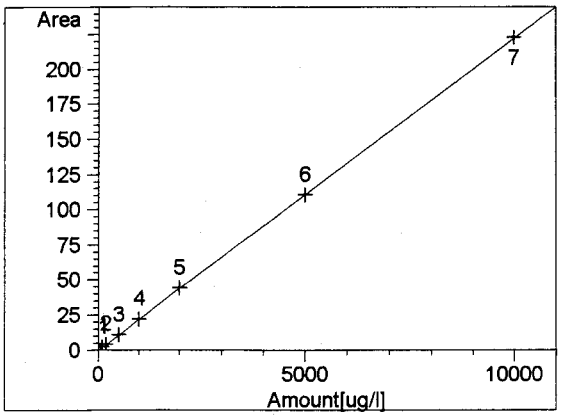
Benzo(k)fluoranthene at exp. RT: 18.764
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99997
Residual Std. Dev.: 6.35516
Formula: y = mx + b
m: 3.82102e-1
b: 5.25986
x: Amount[ug/l]
y: Area



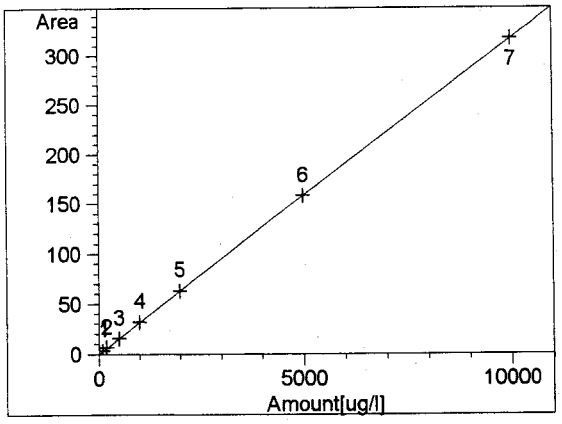
Benzo(a)pyrene at exp. RT: 19.676
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.53487
Formula: y = mx + b
m: 8.85779e-2
b: -5.40129e-1
x: Amount[ug/l]
y: Area



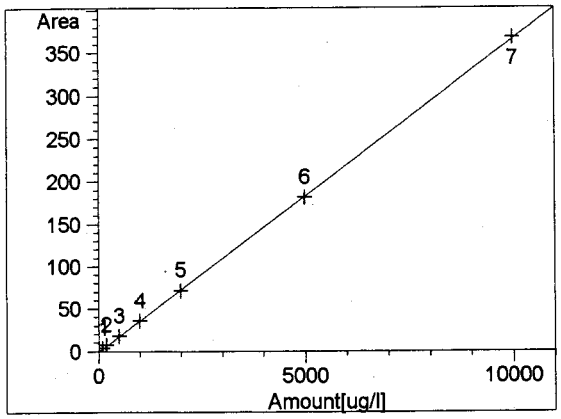
Benzo(a)pyrene at exp. RT: 19.714
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.85195
Formula: y = mx + b
m: 2.12753e-1
b: 6.41655e-1
x: Amount[ug/l]
y: Area



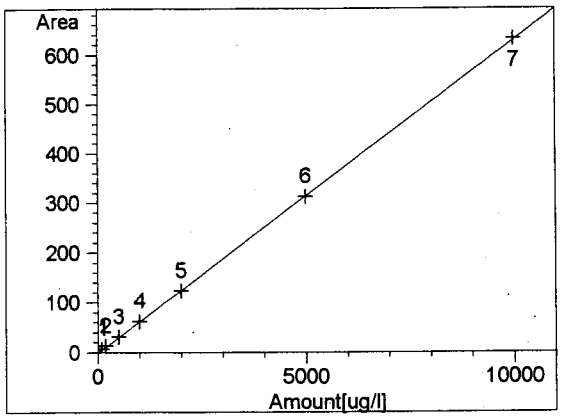
Dibenz(a,h)anthracene at exp. RT: 21.294
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.26499
Formula: y = mx + b
m: 2.23247e-2
b: -5.32610e-1
x: Amount[ug/l]
y: Area



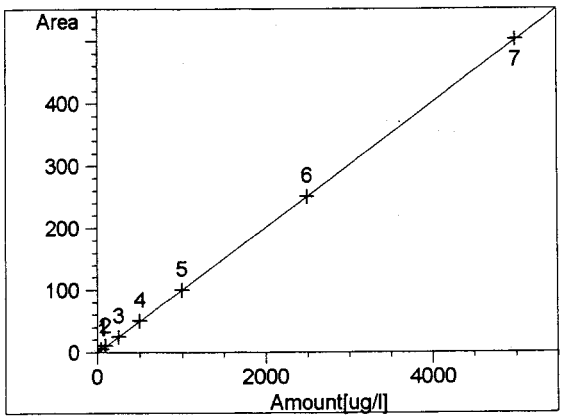
Dibenz(a,h)anthracene at exp. RT: 21.332
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.27198
Formula: y = mx + b
m: 3.17395e-2
b: -2.91544e-1
x: Amount[ug/l]
y: Area



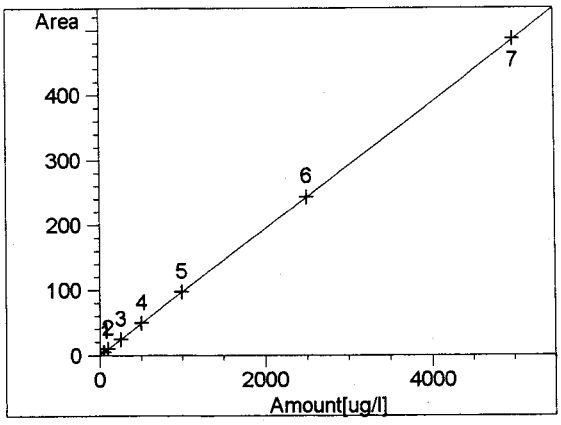
Benzo(g,h,i)perylene at exp. RT: 22.074
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 0.99998
Residual Std. Dev.: 0.94681
Formula: y = mx + b
m: 3.67740e-2
b: -1.04727
x: Amount[ug/l]
y: Area



Benzo(g,h,i)perylene at exp. RT: 22.111
FLD1 A, Ex=273, Em=323, TT
Correlation: 0.99998
Residual Std. Dev.: 1.45280
Formula: y = mx + b
m: 6.31700e-2
b: -1.53644
x: Amount[ug/l]
y: Area



Indeno(1,2,3-cd)pyrene at exp. RT: 22.588
DAD1 A, Sig=254,4 Ref=480,80
Correlation: 1.00000
Residual Std. Dev.: 0.25692
Formula: y = mx + b
m: 1.00554e-1
b: -4.92879e-1
x: Amount[ug/l]
y: Area



Indeno(1,2,3-cd)pyrene at exp. RT: 22.626
FLD1 A, Ex=273, Em=323, TT
Correlation: 1.00000
Residual Std. Dev.: 0.41791
Formula: y = mx + b
m: 9.71800e-2
b: 1.79343e-1
x: Amount[ug/l]
y: Area

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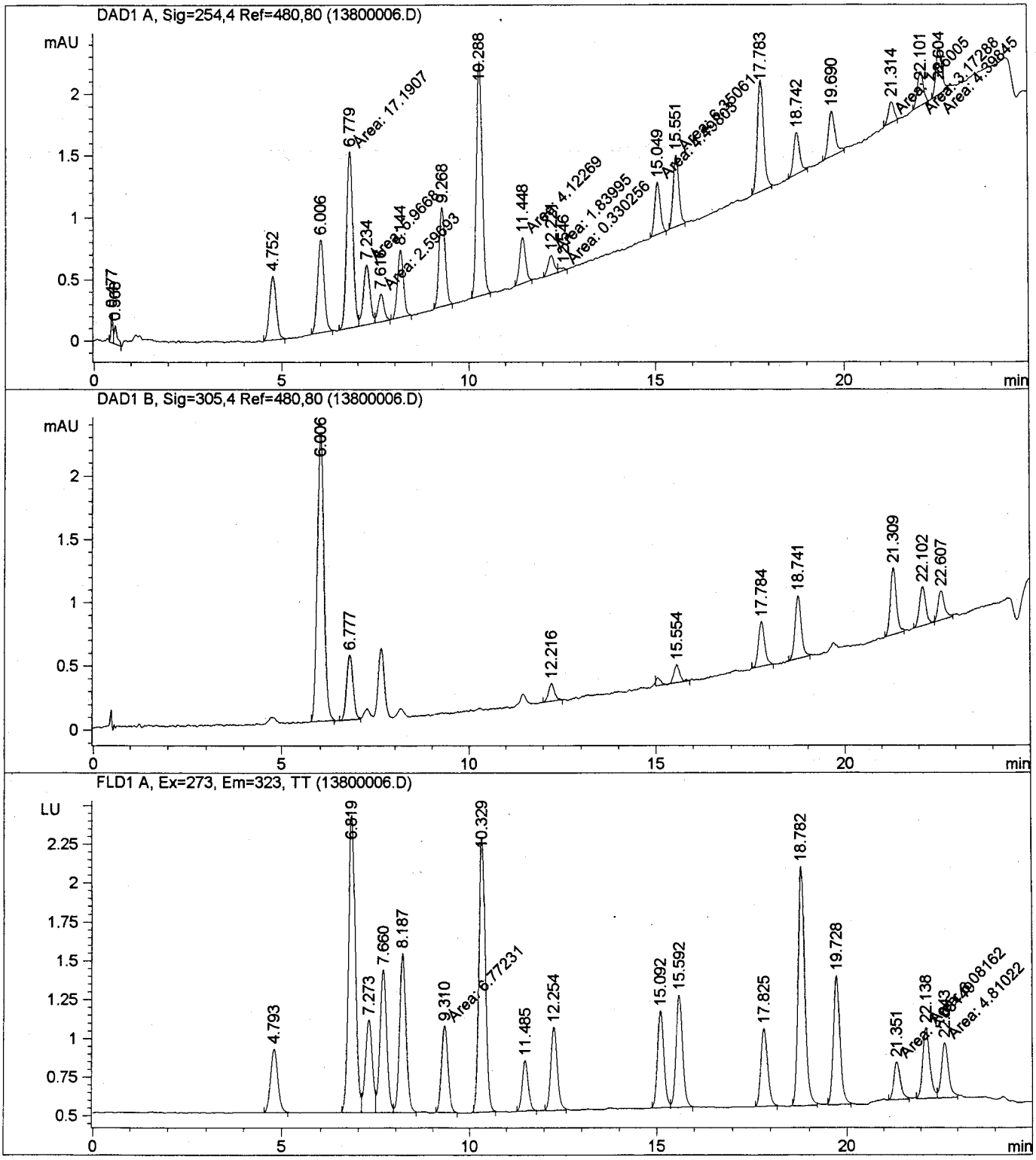
Injection Date : 5/18/2006 7:52:48 PM Seq. Line : 6
Sample Name : ICAL,S3065 Location : Vial 6
Acq. Operator : Inj : 1
Acq. Instrument : HPLC 4 Inj Volume : 10 µl
Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL
HPLC04 METHOD 8310



JM 22MAY2006

External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.752	BP	6.35383	73.22840	465.28047		Naphthalene
6.006	BB	9.18307	86.07316	790.41598		Acenaphthylene
6.779	MF	17.19066	103.84860	1785.22554		1-Methylnaphthalene (UV)
7.234	MF	5.96680	80.69614	481.49793		2-Methylnaphthalene
7.616	FM	2.59693	167.38480	434.68637		Acenaphthene
8.144	VP	6.27447	15.44981	96.93942		Fluorene
9.268	BP	8.85156	5.43133	48.07574		Phenanthrene
10.288	BB	20.75930	2.30524	47.85517		Anthracene
11.448	MM	4.12269	25.48087	105.04978		Fluoranthene
12.221	MF	1.83995	34.43634	63.36108		Pyrene
15.049	MM	4.49803	12.28219	55.24568		Benzo(a)anthracene
15.551	MM	6.35061	7.91518	50.26628		Chrysene
17.783	BB	10.36747	9.89141	102.54895		Benzo(b)fluoranthene
18.742	PB	3.94109	14.59363	57.51478		Benzo(k)fluoranthene
19.690	PB	4.38903	13.34166	58.55689		Benzo(a)pyrene
21.314	MM	1.86005	61.87980	115.09983		Dibenz(a,h)anthracene
22.101	MM	3.17288	33.45332	106.14337		Benzo(g,h,i)perylene
22.604	MM	4.39845	12.46554	54.82910		Indeno(1,2,3-cd)pyrene

Totals : 4918.59235

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.006	BB	27.65381	36.14769	999.62119		Acenaphthylene
6.777	PV	6.06443	308.61277	1871.56076		1-Methylnaphthalene (UV)

Totals : 2871.18195

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.793	BB	5.48376	68.97480	378.24111		Naphthalene
6.819	BV	24.40978	59.67094	1456.55443		1-Methylnaphthalene (F)
7.273	VV	7.74911	55.20738	427.80829		2-Methylnaphthalene
7.660	VV	11.70526	36.25836	424.41367		Acenaphthene
8.187	VB	12.79477	6.28187	80.37502		Fluorene
9.310	MM	6.77231	5.92673	40.13766		Phenanthrene
10.329	BB	20.99740	2.31053	48.51518		Anthracene
11.485	BB	3.82083	23.80183	90.94271		Fluoranthene
12.254	BB	6.53807	7.19858	47.06487		Pyrene
15.092	BV	7.44724	6.41390	47.76587		Benzo(a)anthracene
15.592	VB	8.93709	4.83163	43.18071		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.825	BB	6.27574	14.89507	93.47751		Benzo(b)fluoranthene
18.782	BB	19.28471	2.18916	42.21724		Benzo(k)fluoranthene
19.728	BB	10.44253	4.30052	44.90832		Benzo(a)pyrene
21.351	MF	3.03149	36.12993	109.52744		Dibenz(a,h)anthracene
22.138	FM	6.08162	17.06152	103.76167		Benzo(g,h,i)perylene
22.643	MF	4.81022	11.56582	55.63411		Indeno(1,2,3-cd)pyrene

Totals : 3534.52582

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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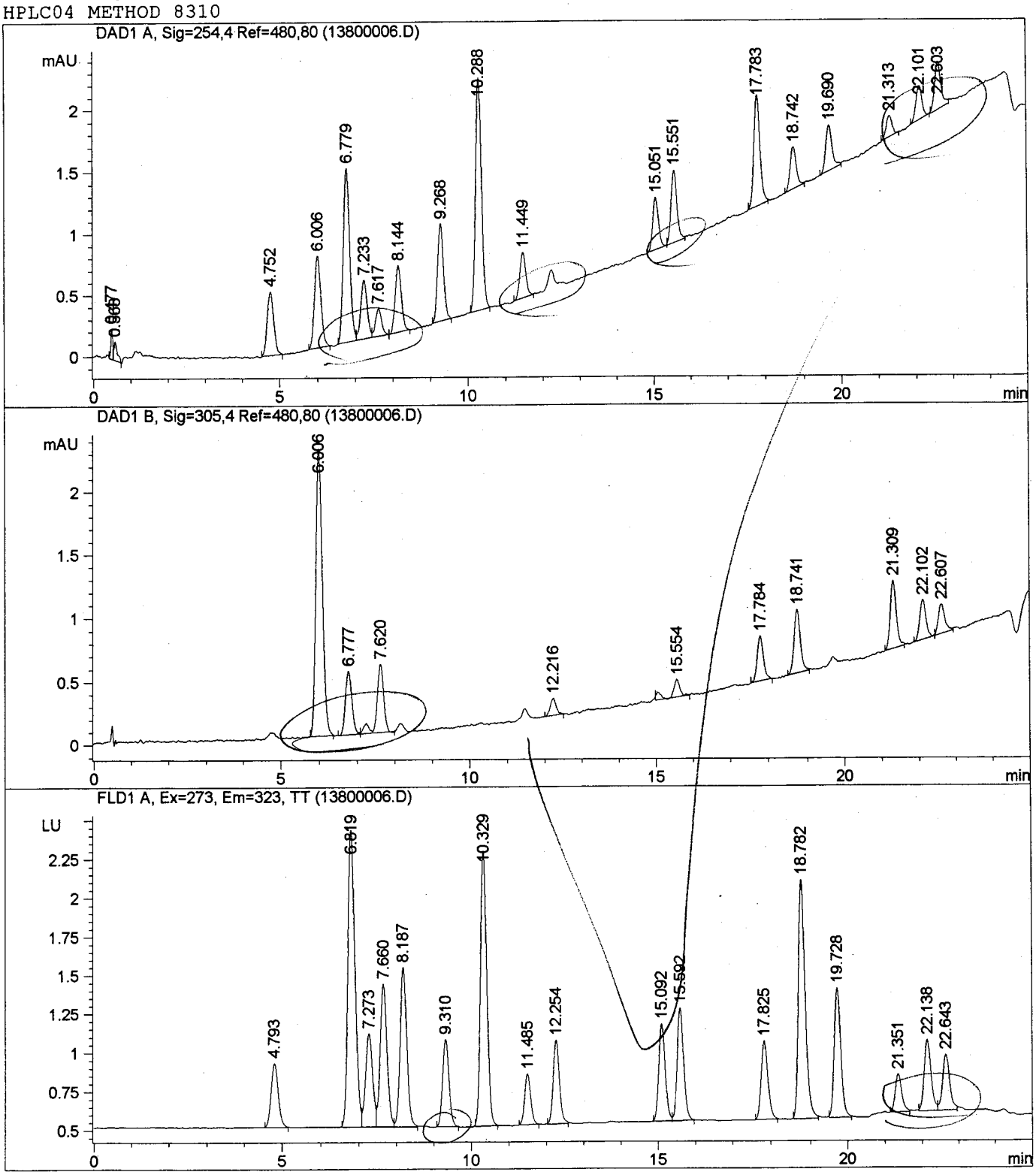
Injection Date	: 5/18/2006 7:52:48 PM	Seq. Line :	6
Sample Name	: ICAL,S3065	Location :	Vial 6
Acq. Operator	:	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Sequence File	: G:\HPLC4\SEQUENCE\051806.S		
Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		

HPLC04 METHOD 8310



External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.752	BP	6.35383	73.22840	465.28047		Naphthalene
6.006	BB	9.18307	86.07316	790.41598		Acenaphthylene
6.779	BV	16.96911	103.64911	1758.83363		1-Methylnaphthalene (UV)
7.233	VV	5.86789	80.58486	472.86303		2-Methylnaphthalene
7.617	VP	2.58632	167.24952	432.56006		Acenaphthene
8.144	VP	6.27447	15.44981	96.93942		Fluorene
9.268	BP	8.85156	5.43133	48.07574		Phenanthrene
10.288	BB	20.75930	2.30524	47.85517		Anthracene
11.449	BB	4.17647	25.46600	106.35808		Fluoranthene
12.274		-	-	-		Pyrene
15.051	PB	4.66044	12.23445	57.01786		Benzo(a)anthracene
15.551	BB	6.65766	7.89598	52.56868		Chrysene
17.783	BB	10.36747	9.89141	102.54895		Benzo(b)fluoranthene
18.742	PB	3.94109	14.59363	57.51478		Benzo(k)fluoranthene
19.690	PB	4.38903	13.34166	58.55689		Benzo(a)pyrene
21.313	BB	1.89148	61.62125	116.55565		Dibenz(a,h)anthracene
22.101	BB	3.27987	33.27520	109.13825		Benzo(g,h,i)perylene
22.603	BB	4.80412	12.29839	59.08288		Indeno(1,2,3-cd)pyrene

Totals : 4832.16552

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.006	BB	27.65381	36.14769	999.62119		Acenaphthylene
6.777	PV	6.06443	308.61277	1871.56076		1-Methylnaphthalene (UV)

Totals : 2871.18195

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.793	BB	5.48376	68.97480	378.24111		Naphthalene
6.819	BV	24.40978	59.67094	1456.55443		1-Methylnaphthalene (F)
7.273	VV	7.74911	55.20738	427.80829		2-Methylnaphthalene
7.660	VV	11.70526	36.25836	424.41367		Acenaphthene
8.187	VB	12.79477	6.28187	80.37502		Fluorene
9.310	BB	6.73184	5.91894	39.84533		Phenanthrene
10.329	BB	20.99740	2.31053	48.51518		Anthracene
11.485	BB	3.82083	23.80183	90.94271		Fluoranthene
12.254	BB	6.53807	7.19858	47.06487		Pyrene
15.092	BV	7.44724	6.41390	47.76587		Benzo(a)anthracene
15.592	VB	8.93709	4.83163	43.18071		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.825	BB	6.27574	14.89507	93.47751		Benzo(b)fluoranthene
18.782	BB	19.28471	2.18916	42.21724		Benzo(k)fluoranthene
19.728	BB	10.44253	4.30052	44.90832		Benzo(a)pyrene
21.351	BB	3.01997	36.14844	109.16736		Dibenz(a,h)anthracene
22.138	BV	6.04372	17.07027	103.16802		Benzo(g,h,i)perylene
22.643	VB	4.78746	11.57190	55.40001		Indeno(1,2,3-cd)pyrene

Totals : 3533.04566

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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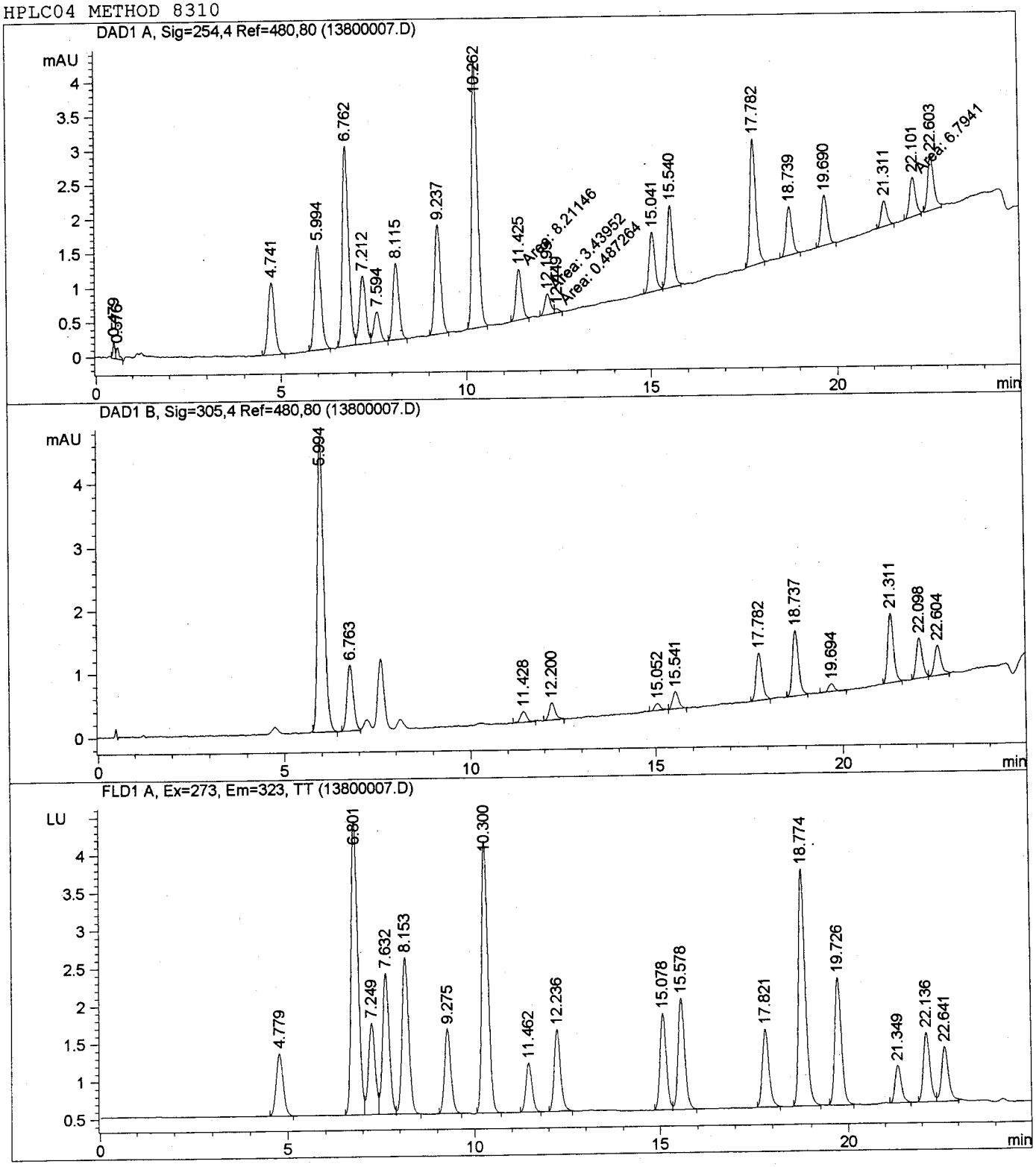
Injection Date	: 5/18/2006 8:24:25 PM	Seq. Line :	7
Sample Name	: ICAL,S3064	Location :	Vial 7
Acq. Operator	:	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 5/22/2006 3:04:09 PM (modified after loading)		

HPLC04 METHOD 8310



JM 22MAY2006

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, May 22, 2006 3:04:08 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.741	PP	13.15704	75.44715	992.66081		Naphthalene
5.994	BB	18.68859	97.96462	1830.82099		Acenaphthylene
6.762	BV	34.41462	111.26010	3828.97360		1-Methylnaphthalene (UV)
7.212	VV	11.99022	83.23805	998.04267		2-Methylnaphthalene
7.594	VB	5.17957	182.34076	944.44598		Acenaphthene
8.115	BP	12.48572	15.66499	195.58864		Fluorene
9.237	BB	17.94612	5.51656	99.00091		Phenanthrene
10.262	BB	42.52945	2.38255	101.32866		Anthracene
11.425	MM	8.21146	24.85880	204.12706		Fluoranthene
12.199	MF	3.43952	31.84936	109.54636		Pyrene
15.041	BB	9.67921	11.48192	111.13591		Benzo(a)anthracene
15.540	BB	13.59609	7.71104	104.83992		Chrysene
17.782	BB	20.85804	9.58304	199.88339		Benzo(b)fluoranthene
18.739	PB	7.89588	13.47462	106.39401		Benzo(k)fluoranthene
19.690	BP	8.22974	12.32704	101.44830		Benzo(a)pyrene
21.311	PP	4.03761	53.19287	214.77209		Dibenz(a,h)anthracene
22.101	MF	6.79410	30.67938	208.43875		Benzo(g,h,i)perylene
22.603	BB	9.64680	11.34406	109.43393		Indeno(1,2,3-cd)pyrene

Totals : 1.04609e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
5.994	BP	56.04304	35.96343	2015.49979		Acenaphthylene
6.763	BV	12.31411	319.16952	3930.28943		1-Methylnaphthalene (UV)

Totals : 5945.78921

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.779	BB	11.08296	78.41449	869.06430		Naphthalene
6.801	BV	49.21495	69.93486	3441.84074		1-Methylnaphthalene (F)
7.249	VV	15.52372	59.51698	923.92465		2-Methylnaphthalene
7.632	VV	23.56936	39.24141	924.89482		Acenaphthene
8.153	VB	25.46982	7.01892	178.77070		Fluorene
9.275	BB	13.66179	6.60992	90.30337		Phenanthrene
10.300	BB	42.23863	2.36471	99.88196		Anthracene
11.462	BB	7.68846	24.34096	187.14448		Fluoranthene
12.236	BB	13.11404	7.39696	97.00398		Pyrene
15.078	BV	15.15430	6.51482	98.72748		Benzo(a)anthracene
15.578	VB	18.11283	5.14692	93.22533		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.821	BB	12.83850	15.01359	192.75198		Benzo(b)fluoranthene
18.774	BB	39.20409	2.38224	93.39338		Benzo(k)fluoranthene
19.726	BB	21.26584	4.49830	95.66009		Benzo(a)pyrene
21.349	BB	6.02086	33.66053	202.66539		Dibenz(a,h)anthracene
22.136	BV	11.79889	16.41176	193.64051		Benzo(g,h,i)perylene
22.641	VB	9.68046	10.88148	105.33775		Indeno(1,2,3-cd)pyrene
Totals :				7888.23092		

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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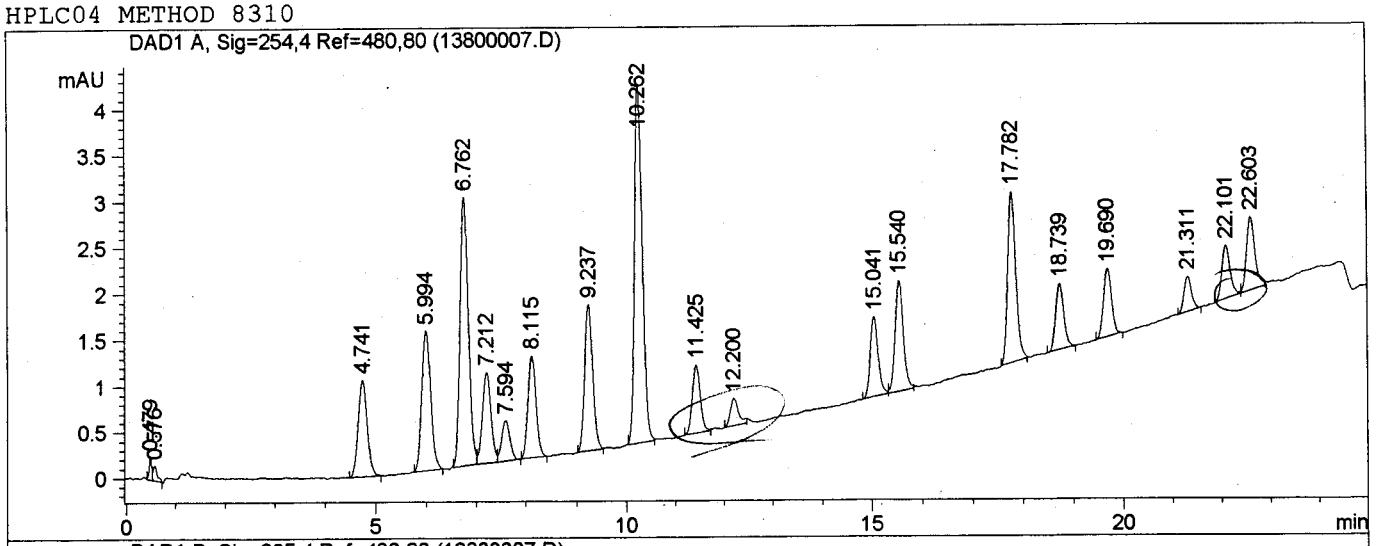
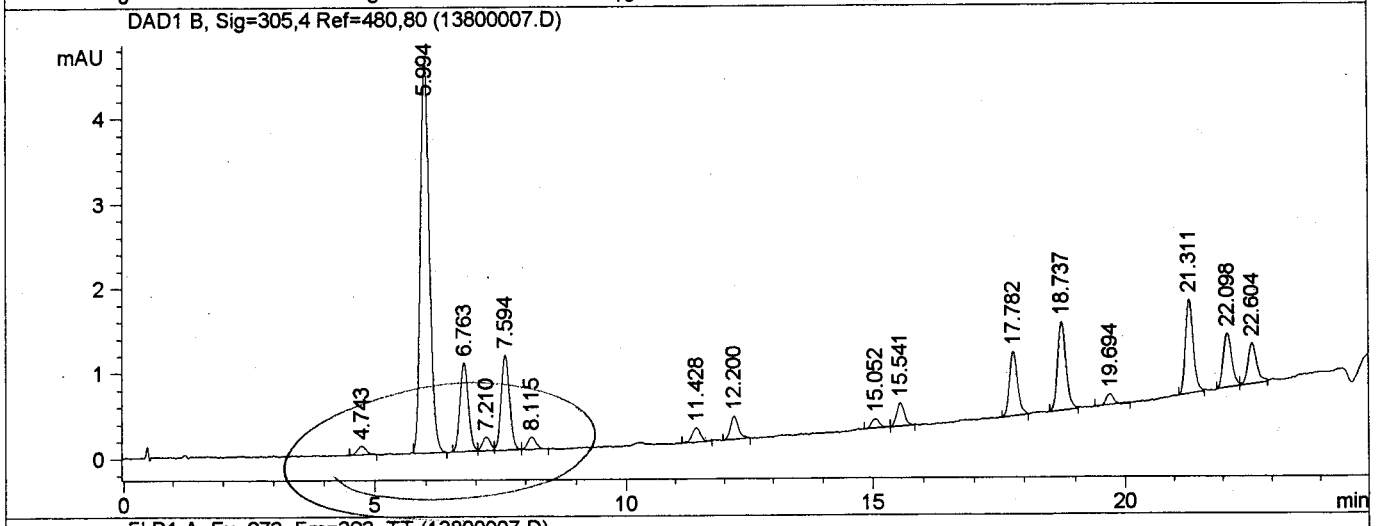
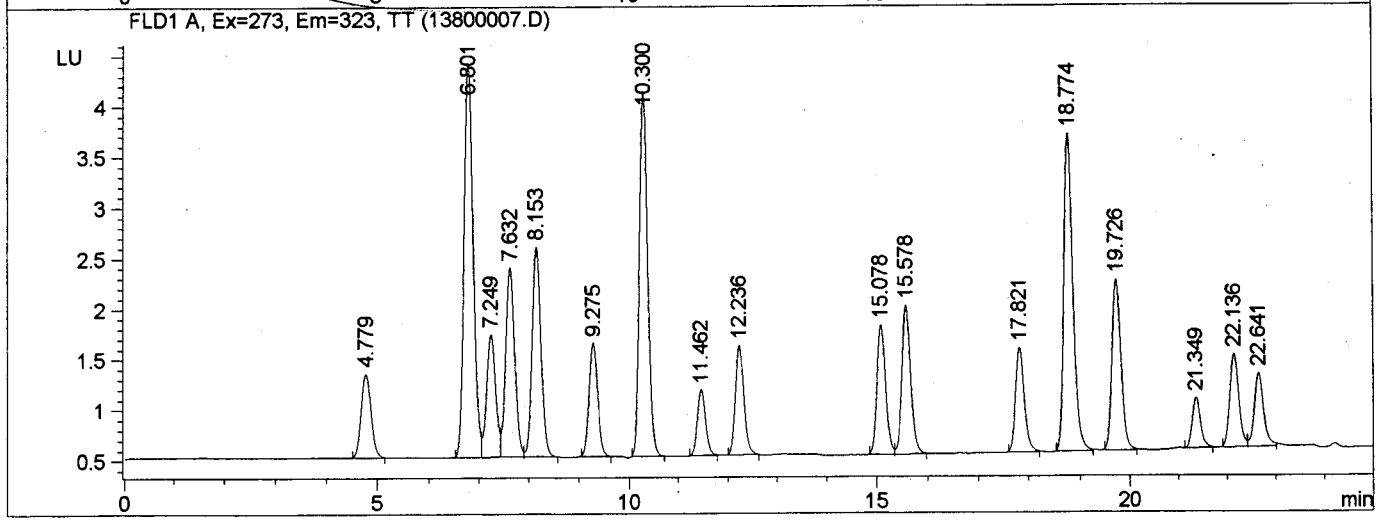
Injection Date	: 5/18/2006 8:24:25 PM	Seq. Line :	7
Sample Name	: ICAL,S3064	Location :	Vial 7
Acq. Operator	:	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Sequence File	: G:\HPLC4\SEQUENCE\051806.S		
Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		

HPLC04 METHOD 8310







External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.741	PP	13.15704	75.23966	989.93094		Naphthalene
5.994	BB	18.68859	97.95052	1830.55734		Acenaphthylene
6.762	BV	34.41462	111.49571	3837.08215		1-Methylnaphthalene (UV)
7.212	VV	11.99022	84.01255	1007.32908		2-Methylnaphthalene
7.594	VB	5.17957	183.82214	952.11889		Acenaphthene
8.115	BP	12.48572	15.67684	195.73657		Fluorene
9.237	BB	17.94612	5.50602	98.81159		Phenanthrene
10.262	BB	42.52945	2.39039	101.66206		Anthracene
11.425	BB	8.33177	24.89745	207.43969		Fluoranthene
12.200	BB	3.63215	32.14049	116.73924		Pyrene
15.041	BB	9.67921	11.54875	111.78279		Benzo(a)anthracene
15.540	BB	13.59609	7.69321	104.59755		Chrysene
17.782	BB	20.85804	9.63082	200.87998		Benzo(b)fluoranthene
18.739	PB	7.89588	13.44291	106.14363		Benzo(k)fluoranthene
19.690	BP	8.22974	12.47815	102.69193		Benzo(a)pyrene
21.311	PP	4.03761	53.48821	215.96454		Dibenz(a,h)anthracene
22.101	PB	6.88324	30.50981	210.00617		Benzo(g,h,i)perylene
22.603	BB	9.64680	11.38859	109.86342		Indeno(1,2,3-cd)pyrene
Totals :				1.04993e4		

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
5.994	BP	56.04304	36.00954	2018.08416		Acenaphthylene
6.763	BV	12.31411	319.09832	3929.41268		1-Methylnaphthalene (UV)
Totals :				5947.49684		

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.779	BB	11.08296	77.69214	861.05854		Naphthalene
6.801	BV	49.21495	69.11596	3401.53860		1-Methylnaphthalene (F)
7.249	VV	15.52372	59.25143	919.80224		2-Methylnaphthalene
7.632	VV	23.56936	39.05561	920.51559		Acenaphthene
8.153	VB	25.46982	6.97885	177.75006		Fluorene
9.275	BB	13.66179	6.58089	89.90669		Phenanthrene
10.300	BB	42.23863	2.37078	100.13855		Anthracene
11.462	BB	7.68846	24.15496	185.71436		Fluoranthene
12.236	BB	13.11404	7.36549	96.59133		Pyrene
15.078	BV	15.15430	6.50643	98.60035		Benzo(a)anthracene
15.578	VB	18.11283	5.13250	92.96409		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.821	BB	12.83850	14.92551	191.62111		Benzo(b)fluoranthene
18.774	BB	39.20409	2.37879	93.25822		Benzo(k)fluoranthene
19.726	BB	21.26584	4.48946	95.47213		Benzo(a)pyrene
21.349	BB	6.02086	33.71974	203.02184		Dibenz(a,h)anthracene
22.136	BV	11.79889	16.38463	193.32039		Benzo(g,h,i)perylene
22.641	VB	9.68046	10.92153	105.72548		Indeno(1,2,3-cd)pyrene

Totals : 7826.99958

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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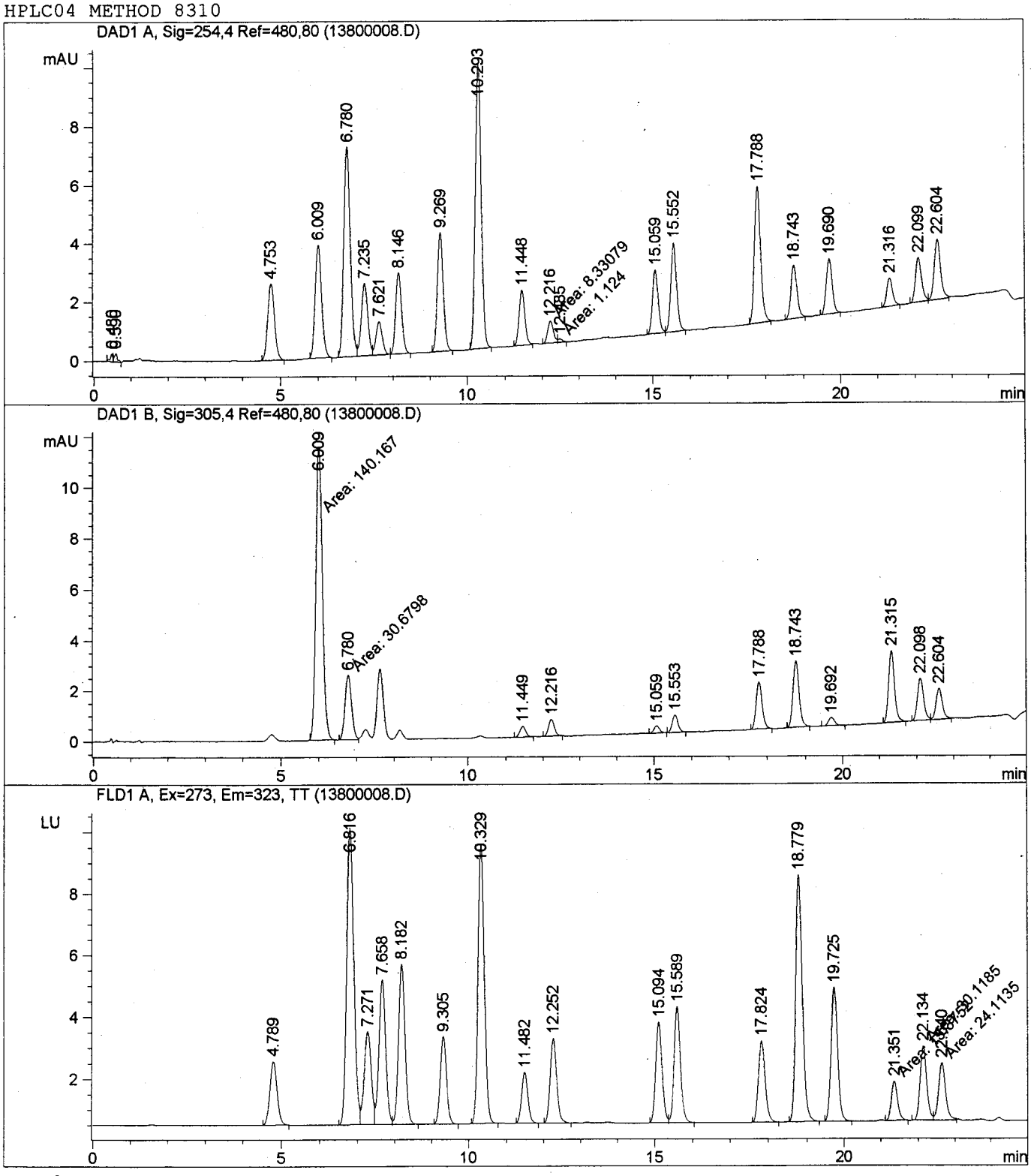
Injection Date	: 5/18/2006 8:56:04 PM	Seq. Line :	8
Sample Name	: ICAL,S3063	Location :	Vial 8
Acq. Operator	:	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 5/22/2006 3:08:40 PM (modified after loading)		

HPLC04 METHOD 8310



JM 22MAY2006

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, May 22, 2006 3:08:39 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.753	BB	32.77972	76.37793	2503.64698		Naphthalene
6.009	BP	46.93712	104.60774	4909.98650		Acenaphthylene
6.780	BV	85.94093	115.82409	9954.03067		1-Methylnaphthalene (UV)
7.235	VV	29.85911	85.16072	2542.82320		2-Methylnaphthalene
7.621	VB	13.08239	192.22136	2514.71478		Acenaphthene
8.146	BP	31.10701	15.79700	491.39753		Fluorene
9.269	BB	45.25932	5.54654	251.03249		Phenanthrene
10.293	BB	106.41690	2.42535	258.09860		Anthracene
11.448	BB	20.48045	24.49211	501.60948		Fluoranthene
12.216	MF	8.33079	30.45653	253.72692		Pyrene
15.059	BV	23.48936	11.08579	260.39827		Benzo(a)anthracene
15.552	VB	33.59677	7.55520	253.83040		Chrysene
17.788	BB	53.17228	9.44279	502.09453		Benzo(b)fluoranthene
18.743	BB	20.57043	12.70764	261.40174		Benzo(k)fluoranthene
19.690	BB	21.51167	11.80156	253.87126		Benzo(a)pyrene
21.316	PB	10.67297	49.06117	523.62828		Dibenz(a,h)anthracene
22.099	BV	17.66954	29.06294	513.52874		Benzo(g,h,i)perylene
22.604	VB	24.43922	10.71133	261.77653		Indeno(1,2,3-cd)pyrene

Totals : 2.70116e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.009	MM	140.16672	35.82836	5021.94384		Acenaphthylene
6.780	MF	30.67977	324.56337	9957.52924		1-Methylnaphthalene (UV)

Totals : 1.49795e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.789	BB	27.68407	83.52975	2312.44313		Naphthalene
6.816	BV	122.94567	75.46335	9277.89216		1-Methylnaphthalene (F)
7.271	VV	38.81281	61.91813	2403.21689		2-Methylnaphthalene
7.658	VV	58.84945	40.87067	2405.21631		Acenaphthene
8.182	VP	63.67719	7.44721	474.21718		Fluorene
9.305	BP	34.08815	6.99887	238.57836		Phenanthrene
10.329	BB	106.64105	2.39799	255.72394		Anthracene
11.482	BB	19.30645	24.53096	473.60574		Fluoranthene
12.252	BP	33.29245	7.48167	249.08298		Pyrene
15.094	BV	38.07673	6.55493	249.59029		Benzo(a)anthracene
15.589	VB	45.37164	5.31771	241.27313		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.824	BB	32.34958	15.00282	485.33482		Benzo(b)fluoranthene
18.779	BB	98.73430	2.48862	245.71240		Benzo(k)fluoranthene
19.725	BB	53.53555	4.60008	246.26762		Benzo(a)pyrene
21.351	FM	15.37518	32.19158	494.95134		Dibenz(a,h)anthracene
22.134	MF	30.11854	16.00712	482.11107		Benzo(g,h,i)perylene
22.640	FM	24.11350	10.49065	252.96625		Indeno(1,2,3-cd)pyrene

Totals : 2.07882e4

Results obtained with enhanced integrator!

*** End of Report ***

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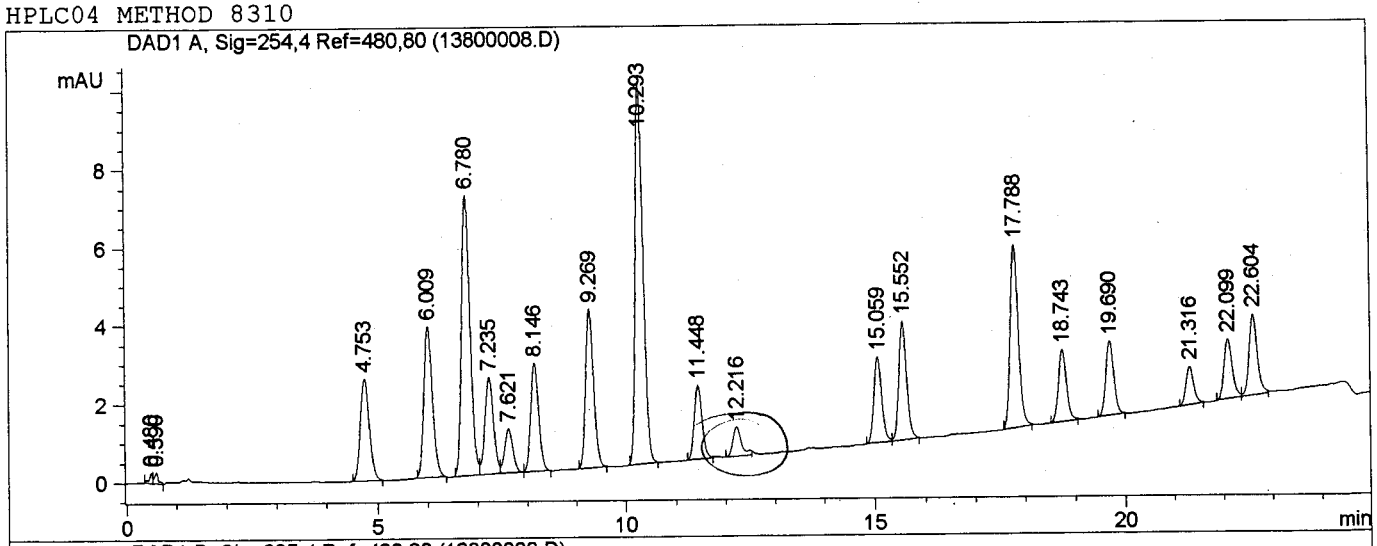
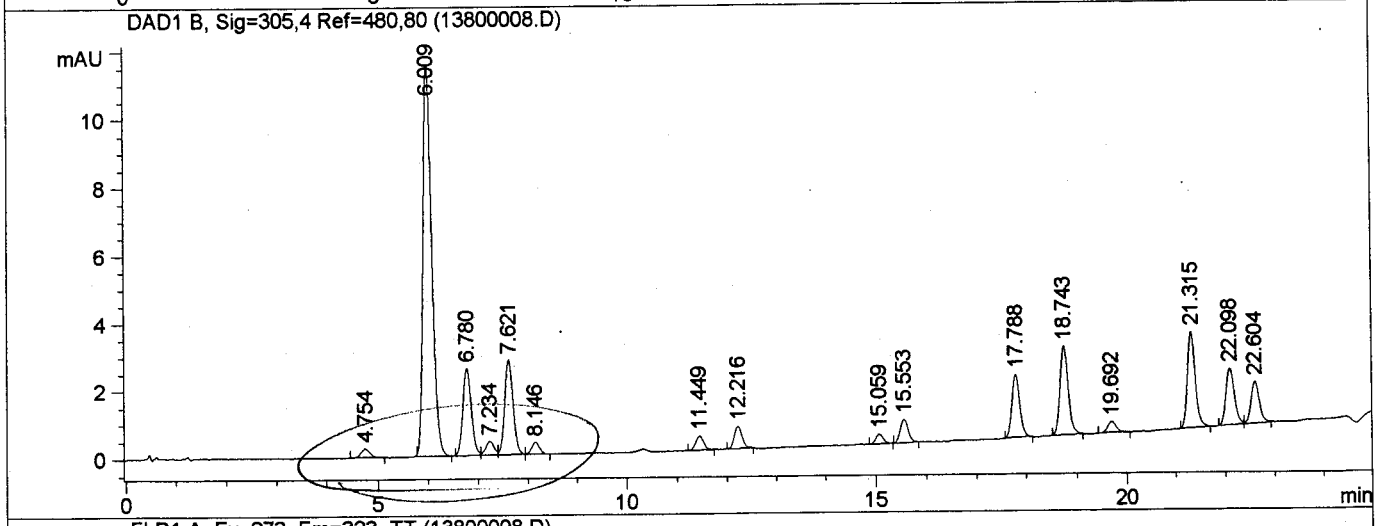
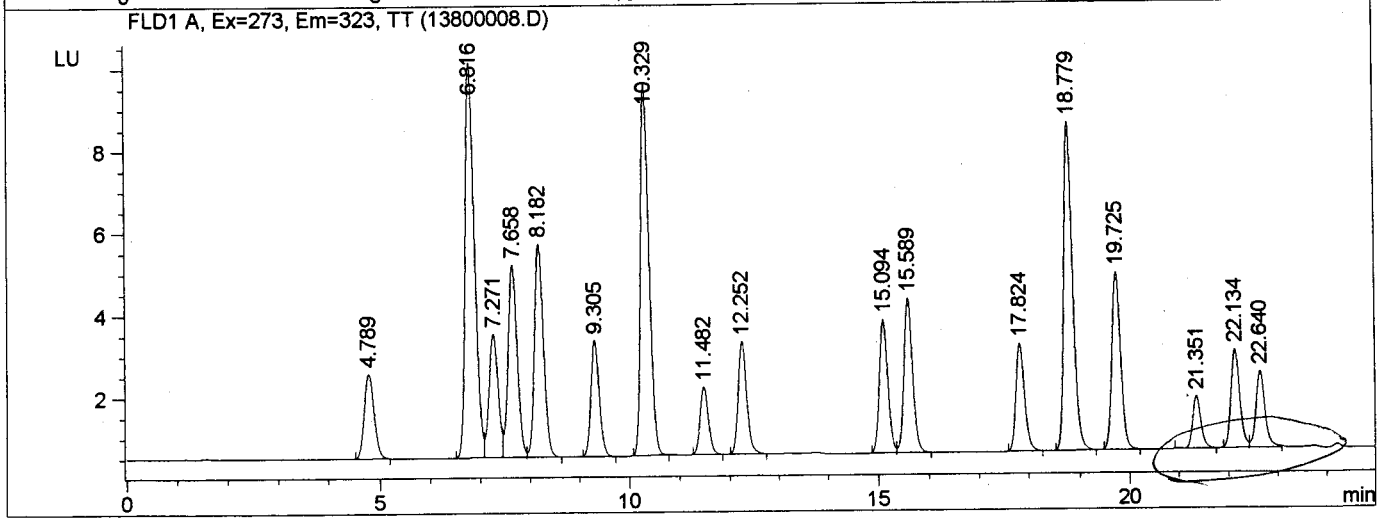
Injection Date : 5/18/2006 8:56:04 PM
Sample Name : ICAL,S3063
Acq. Operator :
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\051806.S
Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL
HPLC04 METHOD 8310

Seq. Line : 8
Location : Vial 8
Inj : 1
Inj Volume : 10 µl







External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.753	BB	32.77972	76.36412	2503.19429		Naphthalene
6.009	BP	46.93712	104.85627	4921.65160		Acenaphthylene
6.780	BV	85.94093	116.07172	9975.31178		1-Methylnaphthalene (UV)
7.235	VV	29.85911	85.97857	2567.24355		2-Methylnaphthalene
7.621	VB	13.08239	193.80657	2535.45315		Acenaphthene
8.146	BP	31.10701	15.81412	491.93013		Fluorene
9.269	BB	45.25932	5.54988	251.18387		Phenanthrene
10.293	BB	106.41690	2.43914	259.56562		Anthracene
11.448	BB	20.48045	24.55847	502.96849		Fluoranthene
12.216	BB	9.07741	30.72660	278.91797		Pyrene
15.059	BV	23.48936	11.17440	262.47948		Benzo(a)anthracene
15.552	VB	33.59677	7.57739	254.57574		Chrysene
17.788	BB	53.17228	9.47431	503.77063		Benzo(b)fluoranthene
18.743	BB	20.57043	12.73634	261.99202		Benzo(k)fluoranthene
19.690	BB	21.51167	11.86888	255.31947		Benzo(a)pyrene
21.316	PB	10.67297	49.03186	523.31537		Dibenz(a,h)anthracene
22.099	BV	17.66954	28.97324	511.94371		Benzo(g,h,i)perylene
22.604	VB	24.43922	10.84229	264.97718		Indeno(1,2,3-cd)pyrene

Totals : 2.71258e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.009	BB	140.42299	35.92868	5045.21256		Acenaphthylene
6.780	BV	30.85767	325.21271	1.00353e4		1-Methylnaphthalene (UV)

Totals : 1.50805e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.789	BB	27.68407	82.81183	2292.56834		Naphthalene
6.816	BV	122.94567	74.68987	9182.79644		1-Methylnaphthalene (F)
7.271	VV	38.81281	61.67004	2393.58779		2-Methylnaphthalene
7.658	VV	58.84945	40.71010	2395.76673		Acenaphthene
8.182	VP	63.67719	7.40100	471.27502		Fluorene
9.305	BP	34.08815	6.96620	237.46500		Phenanthrene
10.329	BB	106.64105	2.40675	256.65820		Anthracene
11.482	BB	19.30645	24.36488	470.39931		Fluoranthene
12.252	BP	33.29245	7.46607	248.56366		Pyrene
15.094	BV	38.07673	6.56025	249.79276		Benzo(a)anthracene
15.589	VB	45.37164	5.30856	240.85792		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.824	BB	32.34958	14.94306	483.40187		Benzo(b)fluoranthene
18.779	BB	98.73430	2.48948	245.79718		Benzo(k)fluoranthene
19.725	BB	53.53555	4.59934	246.22808		Benzo(a)pyrene
21.351	BB	15.91616	32.20018	512.50327		Dibenz(a,h)anthracene
22.134	BV	30.24633	15.94548	482.29231		Benzo(g,h,i)perylene
22.640	VB	24.45337	10.53710	257.66761		Indeno(1,2,3-cd)pyrene

Totals : 2.06676e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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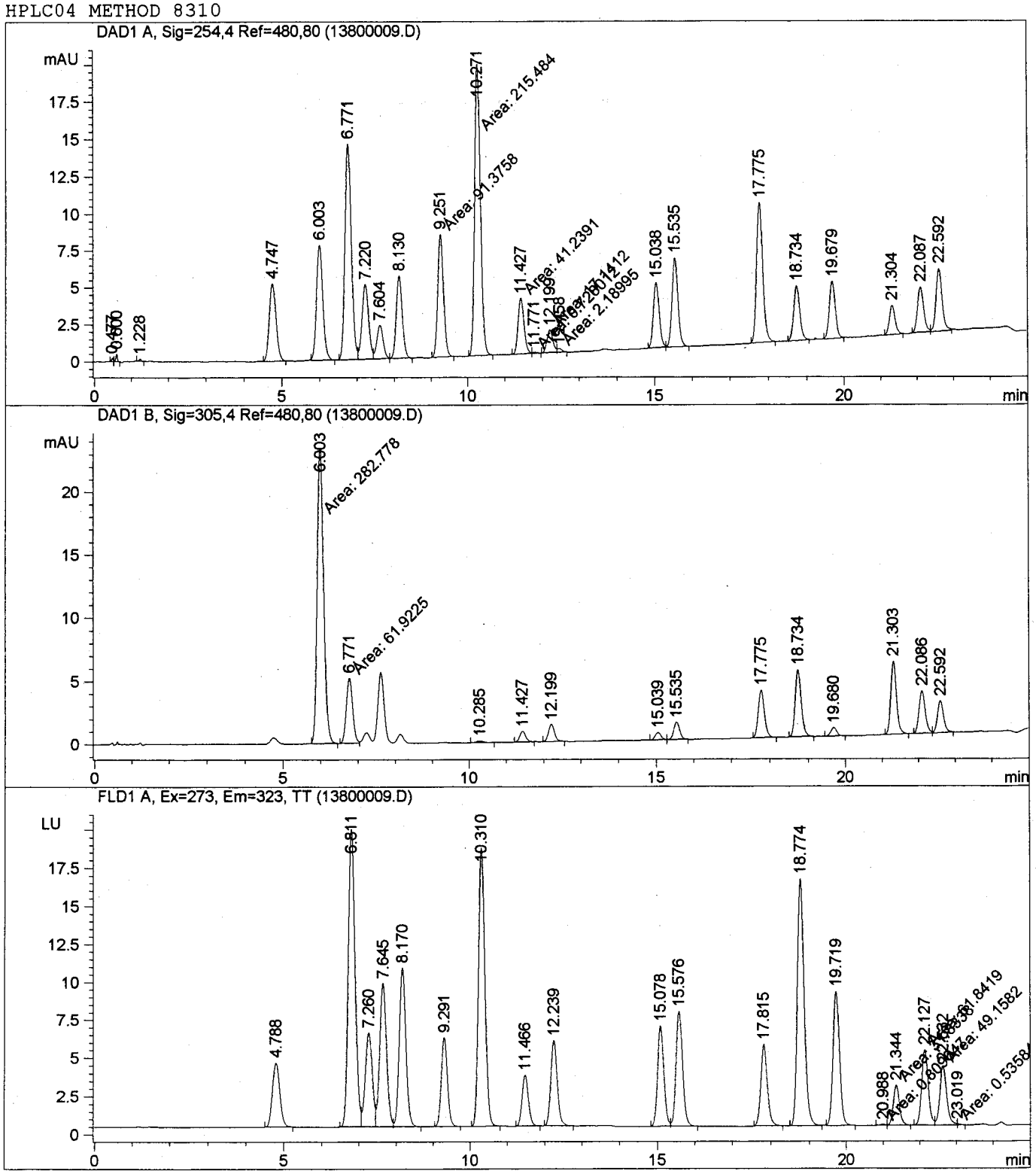
Injection Date	: 5/18/2006 9:27:42 PM	Seq. Line	: 9
Sample Name	: ICAL,S3062	Location	: Vial 9
Acq. Operator	:	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 5/22/2006 3:12:31 PM (modified after loading)		

HPLC04 METHOD 8310



JM 22MAY2006

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External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, May 22, 2006 3:12:30 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.747	BB	66.00784	76.67739	5061.30895		Naphthalene
6.003	BP	94.78723	106.93527	1.01361e4		Acenaphthylene
6.771	BV	173.09207	117.45247	2.03301e4		1-Methylnaphthalene (UV)
7.220	VV	60.88431	86.05257	5239.25141		2-Methylnaphthalene
7.604	VV	26.89059	195.94097	5268.96792		Acenaphthene
8.130	VP	63.54686	15.87401	1008.74328		Fluorene
9.251	MM	91.37579	5.56085	508.12697		Phenanthrene
10.271	MM	215.48436	2.43979	525.73592		Anthracene
11.427	MF	41.23911	24.39645	1006.08770		Fluoranthene
12.199	MF	17.14116	30.11218	516.15780		Pyrene
15.038	BV	47.78680	10.96489	523.97718		Benzo(a)anthracene
15.535	VB	67.79062	7.51456	509.41699		Chrysene
17.775	BB	107.52938	9.40124	1010.90932		Benzo(b)fluoranthene
18.734	BB	41.83699	12.44716	520.75155		Benzo(k)fluoranthene
19.679	BB	44.20454	11.62273	513.77751		Benzo(a)pyrene
21.304	BB	21.81421	47.45179	1035.12328		Dibenz(a,h)anthracene
22.087	BV	35.90152	28.47010	1022.11981		Benzo(g,h,i)perylene
22.592	VB	50.25140	10.54000	529.64997		Indeno(1,2,3-cd)pyrene

Totals : 5.52663e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.003	MM	282.77841	35.83417	1.01331e4		Acenaphthylene
6.771	MF	61.92251	327.20946	2.02616e4		1-Methylnaphthalene (UV)

Totals : 3.03948e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.788	BB	55.85367	85.40601	4770.23924		Naphthalene
6.811	BV	247.30377	77.41538	1.91451e4		1-Methylnaphthalene (F)
7.260	VV	78.28068	62.77767	4914.27847		2-Methylnaphthalene
7.645	VV	119.32713	41.45016	4946.12834		Acenaphthene
8.170	VB	128.43744	7.59911	976.01003		Fluorene
9.291	BB	68.83022	7.13713	491.24997		Phenanthrene
10.310	BB	216.08749	2.40817	520.37505		Anthracene
11.466	BB	39.23374	24.64805	967.03499		Fluoranthene
12.239	BP	67.75372	7.51160	508.93881		Pyrene
15.078	BV	76.80959	6.57644	505.13344		Benzo(a)anthracene
15.576	VB	91.38473	5.38541	492.14433		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.815	BB	65.39377	15.02906	982.80711		Benzo(b)fluoranthene
18.774	BB	198.87831	2.52646	502.45906		Benzo(k)fluoranthene
19.719	BB	108.22565	4.64045	502.21596		Benzo(a)pyrene
21.344	MF	31.83378	31.75456	1010.86765		Dibenz(a,h)anthracene
22.127	FM	61.84187	15.88598	982.41888		Benzo(g,h,i)perylene
22.632	FM	49.15816	10.36973	509.75698		Indeno(1,2,3-cd)pyrene

Totals : 4.27272e4

Results obtained with enhanced integrator!

*** End of Report ***

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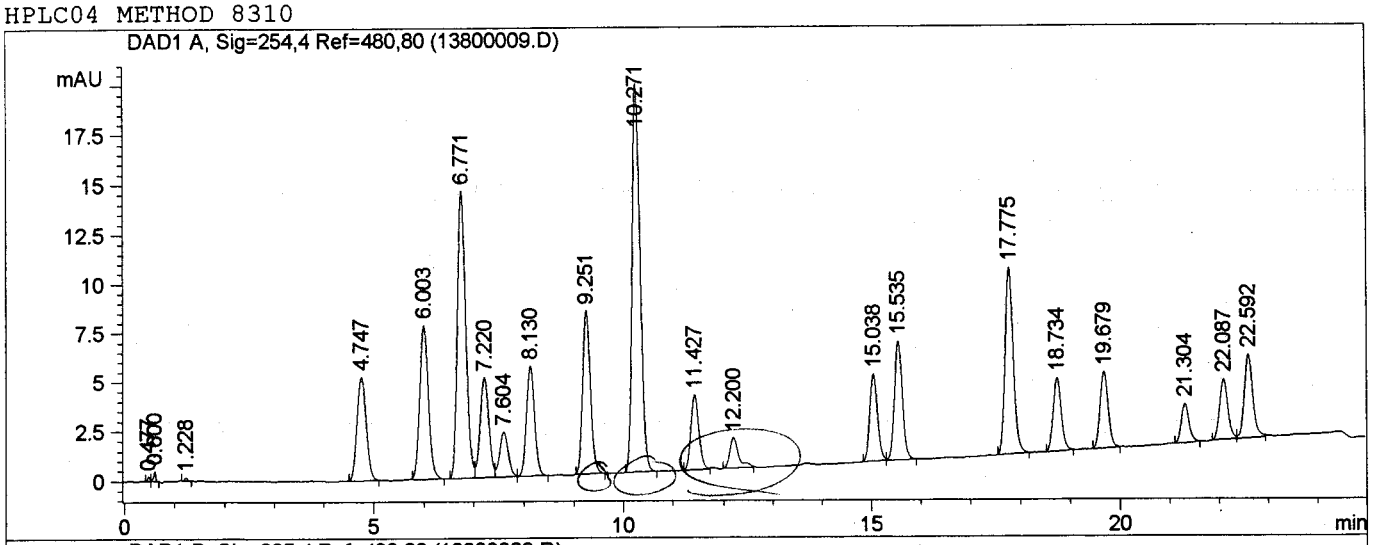
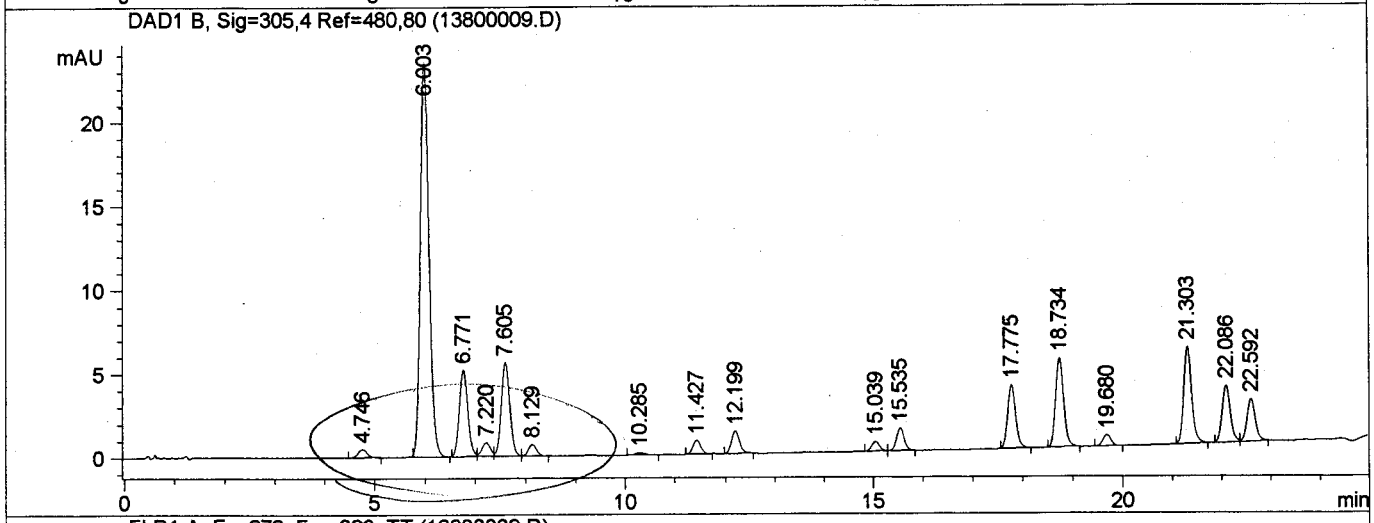
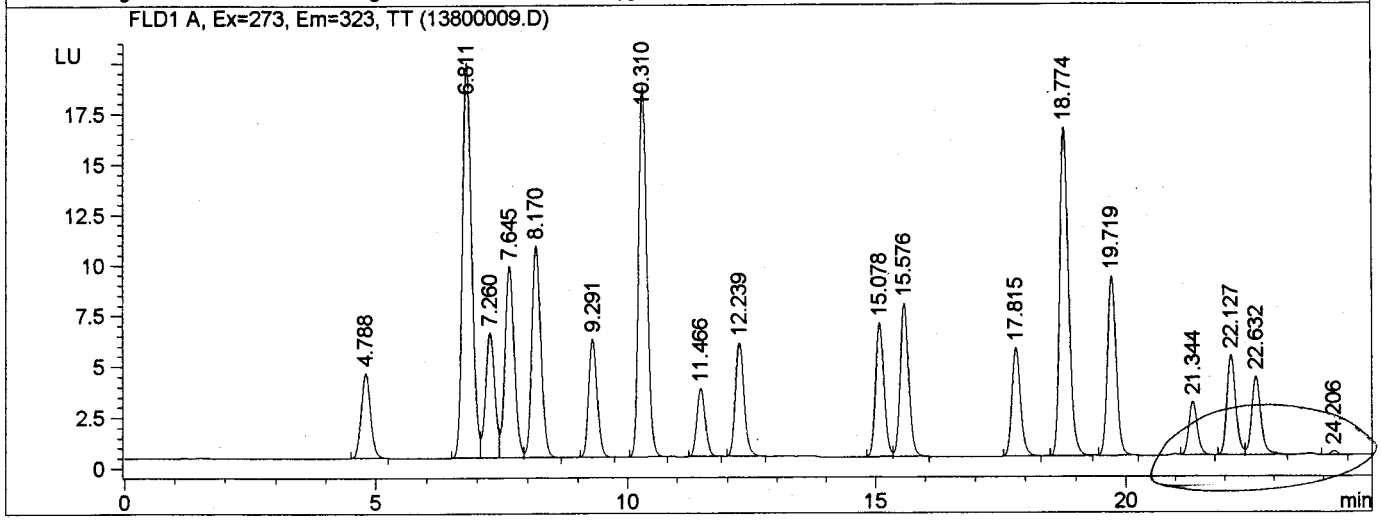
Injection Date : 5/18/2006 9:27:42 PM
Sample Name : ICAL,S3062
Acq. Operator :
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\051806.S
Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL
HPLC04 METHOD 8310

Seq. Line : 9
Location : Vial 9
Inj : 1
Inj Volume : 10 µl







External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.747	BB	66.00784	76.74366	5065.68344		Naphthalene
6.003	BP	94.78723	107.16262	1.01576e4		Acenaphthylene
6.771	BV	173.09207	117.61057	2.03575e4		1-Methylnaphthalene (UV)
7.220	VV	60.88431	86.65081	5275.67504		2-Methylnaphthalene
7.604	VV	26.89059	197.16682	5301.93189		Acenaphthene
8.130	VP	63.54686	15.86111	1007.92400		Fluorene
9.251	BB	90.80871	5.56434	505.29050		Phenanthrene
10.271	BB	215.28198	2.45555	528.63544		Anthracene
11.427	BB	41.29040	24.44131	1009.19134		Fluoranthene
12.200	BB	19.25382	30.22813	582.00685		Pyrene
15.038	BV	47.78680	11.04099	527.61359		Benzo(a)anthracene
15.535	VB	67.79062	7.53767	510.98350		Chrysene
17.775	BB	107.52938	9.42324	1013.27528		Benzo(b)fluoranthene
18.734	BB	41.83699	12.51259	523.48920		Benzo(k)fluoranthene
19.679	BB	44.20454	11.67508	516.09156		Benzo(a)pyrene
21.304	BB	21.81421	47.64691	1039.37946		Dibenz(a,h)anthracene
22.087	BV	35.90152	28.47528	1022.30574		Benzo(g,h,i)perylene
22.592	VB	50.25140	10.65929	535.64450		Indeno(1,2,3-cd)pyrene

Totals : 5.54802e4

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.003	BB	283.36636	35.90159	1.01733e4		Acenaphthylene
6.771	BV	62.20593	327.25890	2.03574e4		1-Methylnaphthalene (UV)

Totals : 3.05307e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.788	BB	55.85367	84.53565	4721.62655		Naphthalene
6.811	BV	247.30377	76.56078	1.89338e4		1-Methylnaphthalene (F)
7.260	VV	78.28068	62.48287	4891.20145		2-Methylnaphthalene
7.645	VV	119.32713	41.27029	4924.66503		Acenaphthene
8.170	VB	128.43744	7.54290	968.79023		Fluorene
9.291	BB	68.83022	7.09628	488.43876		Phenanthrene
10.310	BB	216.08749	2.41870	522.65006		Anthracene
11.466	BB	39.23374	24.43544	958.69373		Fluoranthene
12.239	BP	67.75372	7.49931	508.10642		Pyrene
15.078	BV	76.80959	6.57819	505.26812		Benzo(a)anthracene
15.576	VB	91.38473	5.36746	490.50382		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.815	BB	65.39377	14.94890	977.56498		Benzo(b)fluoranthene
18.774	BB	198.87831	2.52619	502.40408		Benzo(k)fluoranthene
19.719	BB	108.22565	4.63593	501.72649		Benzo(a)pyrene
21.344	VB	32.08181	31.73429	1018.09339		Dibenz(a,h)anthracene
22.127	BV	61.99461	15.80164	979.61673		Benzo(g,h,i)perylene
22.632	VB	50.43483	10.40733	524.89177		Indeno(1,2,3-cd)pyrene

Totals : 4.24180e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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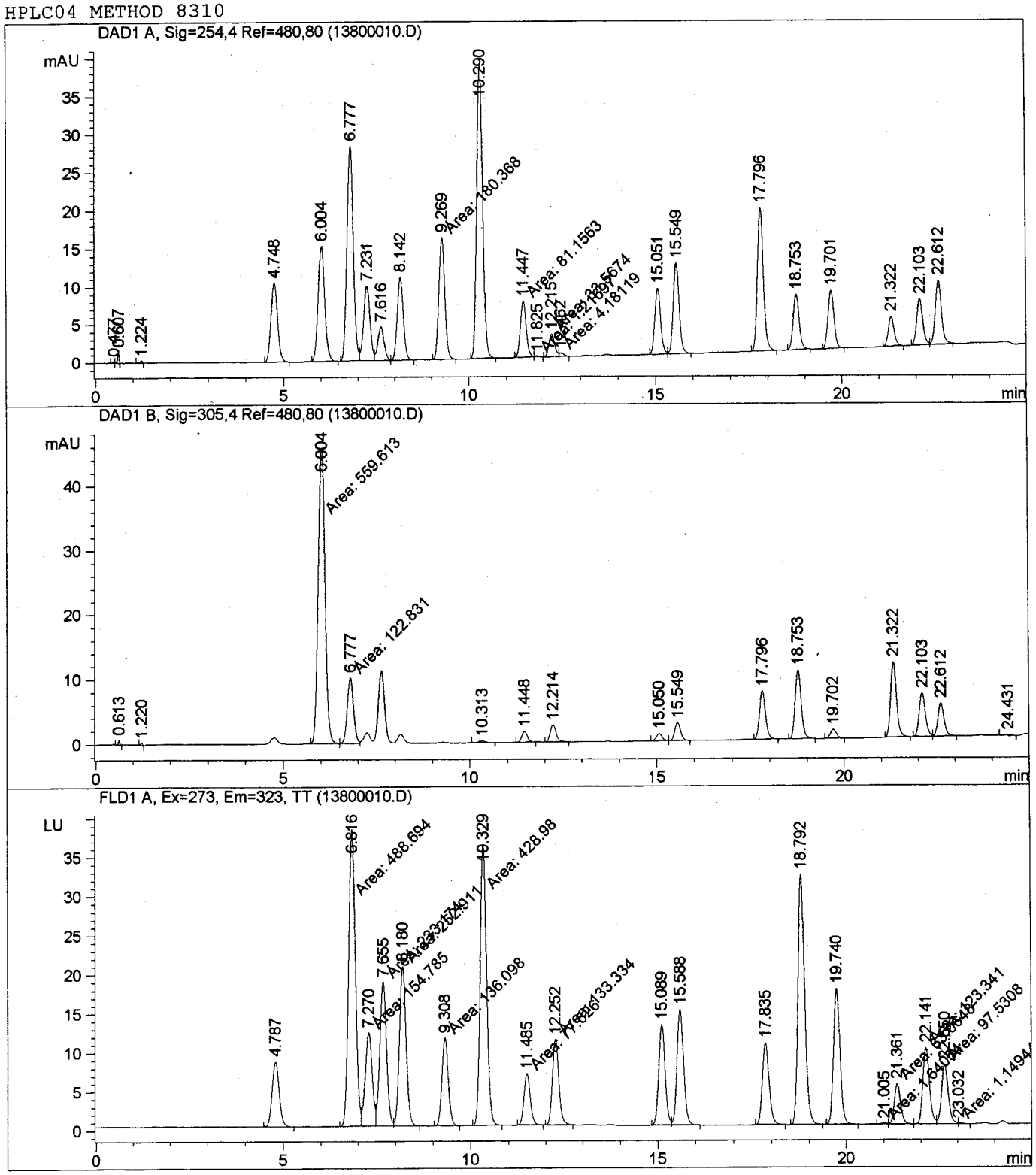
Injection Date	: 5/18/2006 9:59:20 PM	Seq. Line	: 10
Sample Name	: ICAL,S3061	Location	: Vial 10
Acq. Operator	:	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 5/22/2006 3:16:08 PM (modified after loading)		

HPLC04 METHOD 8310



JM 22MAY2006

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, May 22, 2006 3:16:07 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.748	BB	130.71696	76.88265	1.00499e4		Naphthalene
6.004	BP	187.08742	108.17547	2.02383e4		Acenaphthylene
6.777	BV	340.84924	118.27930	4.03154e4		1-Methylnaphthalene (UV)
7.231	VV	120.14920	86.52629	1.03961e4		2-Methylnaphthalene
7.616	VV	53.03941	197.59528	1.04803e4		Acenaphthene
8.142	VP	125.67238	15.89615	1997.70672		Fluorene
9.269	MM	180.36794	5.56956	1004.56957		Phenanthrene
10.290	BB	428.09290	2.44898	1048.38885		Anthracene
11.447	MF	81.15630	24.38102	1978.67352		Fluoranthene
12.215	MF	33.56740	29.90175	1003.72397		Pyrene
15.051	BV	94.79131	10.90985	1034.15935		Benzo(a)anthracene
15.549	VB	134.58353	7.50648	1010.24825		Chrysene
17.796	BB	213.44913	9.38973	2004.22920		Benzo(b)fluoranthene
18.753	BB	83.72203	12.33911	1033.05512		Benzo(k)fluoranthene
19.701	BB	87.60189	11.54393	1011.26973		Benzo(a)pyrene
21.322	BB	44.01789	46.74019	2057.40421		Dibenz(a,h)anthracene
22.103	BV	71.56614	28.20060	2018.20777		Benzo(g,h,i)perylene
22.612	VB	99.94793	10.47655	1047.10941		Indeno(1,2,3-cd)pyrene

Totals : 1.09729e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.004	MF	559.61334	35.84867	2.00614e4		Acenaphthylene
6.777	MF	122.83121	328.29217	4.03245e4		1-Methylnaphthalene (UV)

Totals : 6.03859e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.787	BB	110.44406	86.23241	9523.85763		Naphthalene
6.816	MF	488.69351	78.25434	3.82424e4		1-Methylnaphthalene (F)
7.270	MF	154.78474	63.16158	9776.44914		2-Methylnaphthalene
7.655	FM	233.17419	41.70006	9723.37784		Acenaphthene
8.180	FM	252.91112	7.66160	1937.70495		Fluorene
9.308	MM	136.09827	7.20018	979.93250		Phenanthrene
10.329	MF	428.97952	2.41475	1035.87975		Anthracene
11.485	MM	77.62599	24.67740	1915.60790		Fluoranthene
12.252	MM	133.33412	7.52665	1003.55946		Pyrene
15.089	BV	151.99316	6.59134	1001.83827		Benzo(a)anthracene
15.588	VB	180.56219	5.42067	978.76878		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.835	BB	129.20119	15.03529	1942.57735		Benzo(b)fluoranthene
18.792	BB	392.59399	2.54606	999.56844		Benzo(k)fluoranthene
19.740	BB	214.33957	4.66052	998.93354		Benzo(a)pyrene
21.361	MF	63.06483	31.52180	1987.91703		Dibenz(a,h)anthracene
22.141	MF	123.34122	15.81446	1950.57435		Benzo(g,h,i)perylene
22.650	FM	97.53080	10.31825	1006.34760		Indeno(1,2,3-cd)pyrene

Totals : 8.50053e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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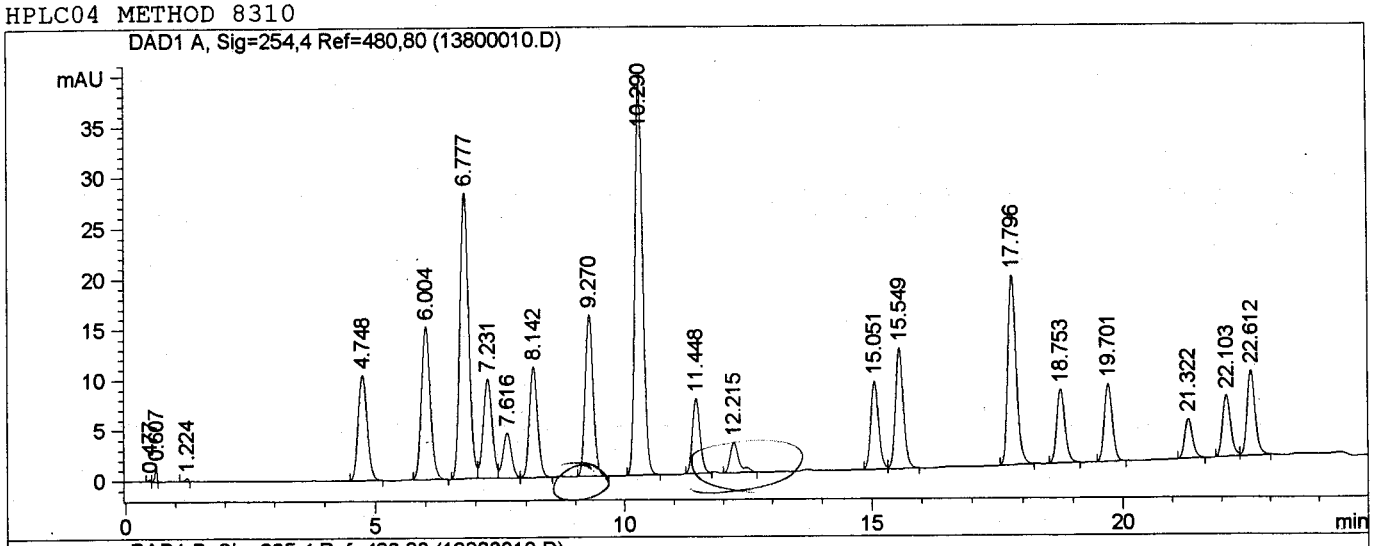
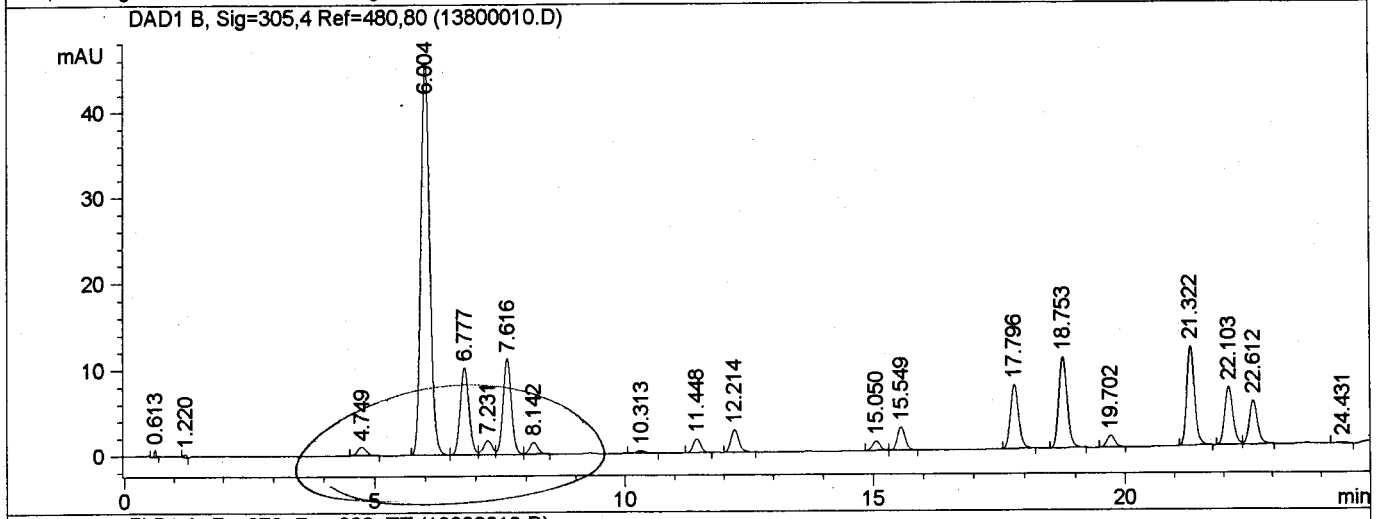
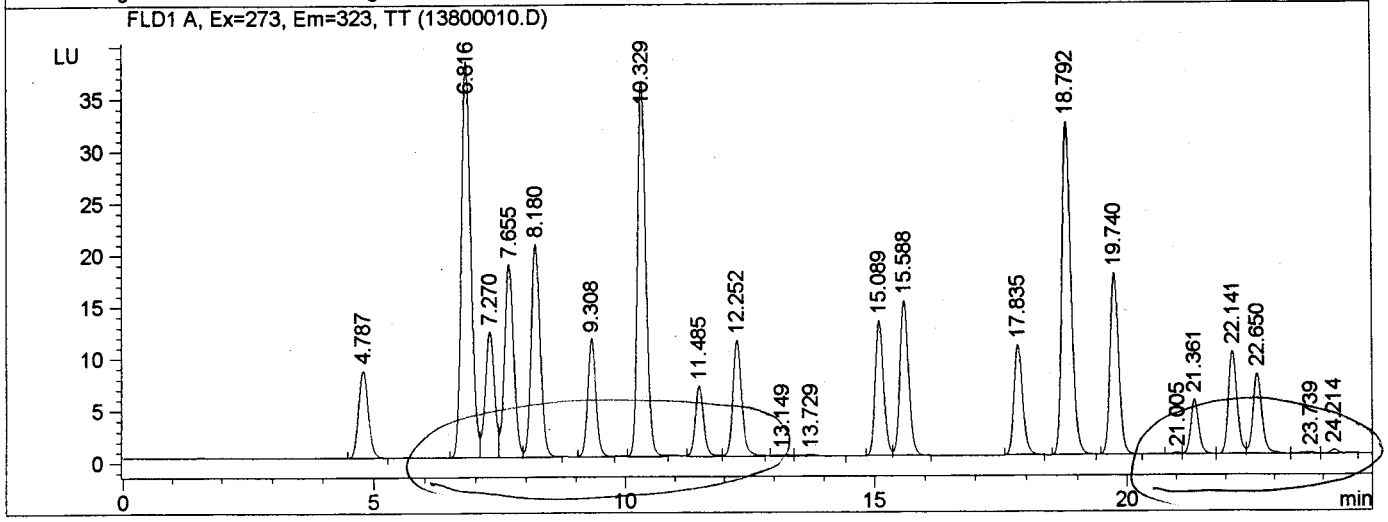
Injection Date : 5/18/2006 9:59:20 PM
Sample Name : ICAL,S3061
Acq. Operator :
Acq. Instrument : HPLC 4
Sequence File : G:\HPLC4\SEQUENCE\051806.S
Method : G:\HPLC4\METHODS\8310-315.M
Last changed : 11/14/2005 4:15:05 PM by HPL
HPLC04 METHOD 8310

Seq. Line : 10
Location : Vial 10
Inj : 1
Inj Volume : 10 µl







External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.748	BB	130.71696	76.92901	1.00559e4		Naphthalene
6.004	BP	187.08742	108.27875	2.02576e4		Acenaphthylene
6.777	BV	340.84924	118.35743	4.03420e4		1-Methylnaphthalene (UV)
7.231	VV	120.14920	86.96994	1.04494e4		2-Methylnaphthalene
7.616	VV	53.03941	198.73637	1.05409e4		Acenaphthene
8.142	VP	125.67238	15.88339	1996.10338		Fluorene
9.270	BP	179.71016	5.57145	1001.24549		Phenanthrene
10.290	BB	428.09290	2.46352	1054.61671		Anthracene
11.448	BB	81.31540	24.38455	1982.83926		Fluoranthene
12.215	BP	37.75097	30.01026	1132.91647		Pyrene
15.051	BV	94.79131	10.97704	1040.52767		Benzo(a)anthracene
15.549	VB	134.58353	7.51831	1011.84027		Chrysene
17.796	BB	213.44913	9.39845	2006.09135		Benzo(b)fluoranthene
18.753	BB	83.72203	12.40432	1038.51473		Benzo(k)fluoranthene
19.701	BB	87.60189	11.58407	1014.78632		Benzo(a)pyrene
21.322	BB	44.01789	46.97767	2067.85759		Dibenz(a,h)anthracene
22.103	BV	71.56614	28.23478	2020.65405		Benzo(g,h,i)perylene
22.612	VB	99.94793	10.57314	1056.76374		Indeno(1,2,3-cd)pyrene

Totals : 1.10071e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.004	BV	560.06903	35.88844	2.01000e4		Acenaphthylene
6.777	VV	123.09278	328.25519	4.04058e4		1-Methylnaphthalene (UV)

Totals : 6.05058e4

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.787	BB	110.44406	85.37302	9428.94253		Naphthalene
6.816	BV	487.92715	77.47294	3.78012e4		1-Methylnaphthalene (F)
7.270	VV	154.79007	62.87797	9732.88474		2-Methylnaphthalene
7.655	VV	234.63596	41.53818	9746.35004		Acenaphthene
8.180	VB	254.35931	7.61197	1936.17458		Fluorene
9.308	BB	137.84933	7.16019	987.02705		Phenanthrene
10.329	BB	432.64206	2.42452	1048.95086		Anthracene
11.485	BV	81.53288	24.47091	1995.18350		Fluoranthene
12.252	VB	138.32648	7.51570	1039.62037		Pyrene
15.089	BV	151.99316	6.58692	1001.16622		Benzo(a)anthracene
15.588	VB	180.56219	5.39615	974.33987		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.835	BB	129.20119	14.95172	1931.78042		Benzo(b)fluoranthene
18.792	BB	392.59399	2.54405	998.77704		Benzo(k)fluoranthene
19.740	BB	214.33957	4.65366	997.46401		Benzo(a)pyrene
21.361	VV	63.13339	31.50868	1989.24982		Dibenz(a,h)anthracene
22.141	VV	123.19981	15.73356	1938.37214		Benzo(g,h,i)perylene
22.650	VB	99.28861	10.34723	1027.36199		Indeno(1,2,3-cd)pyrene

Totals : 8.45748e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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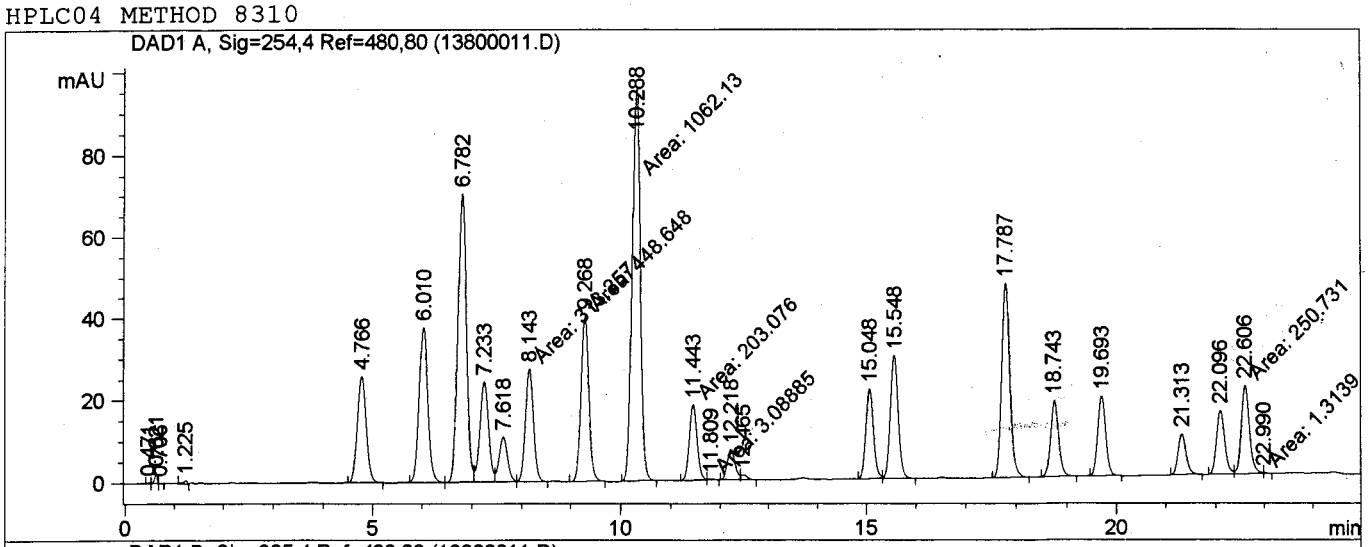
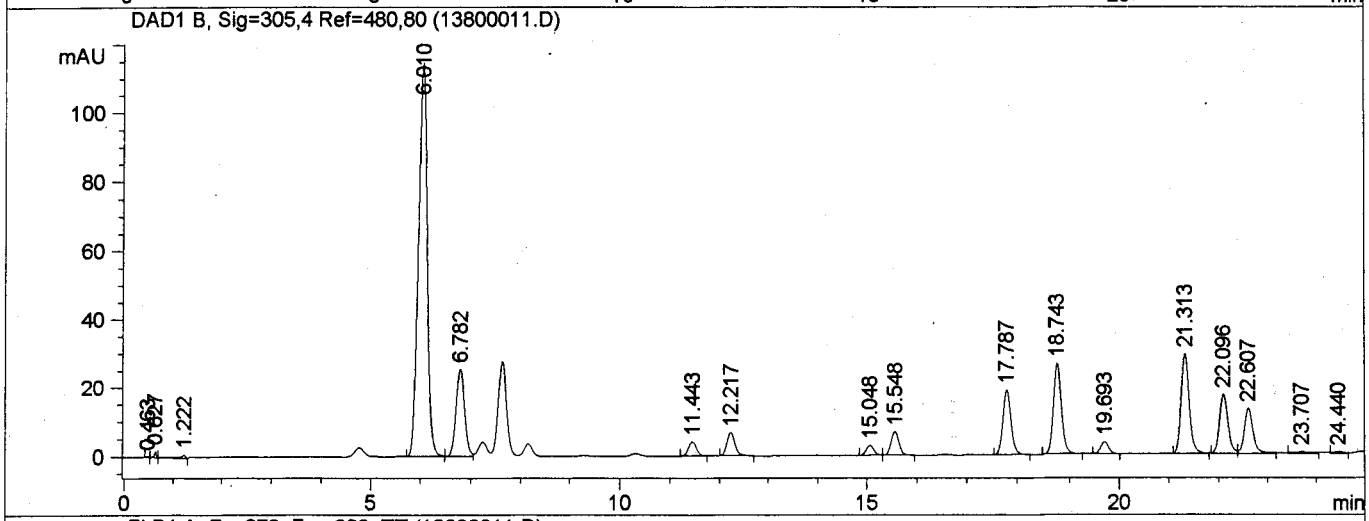
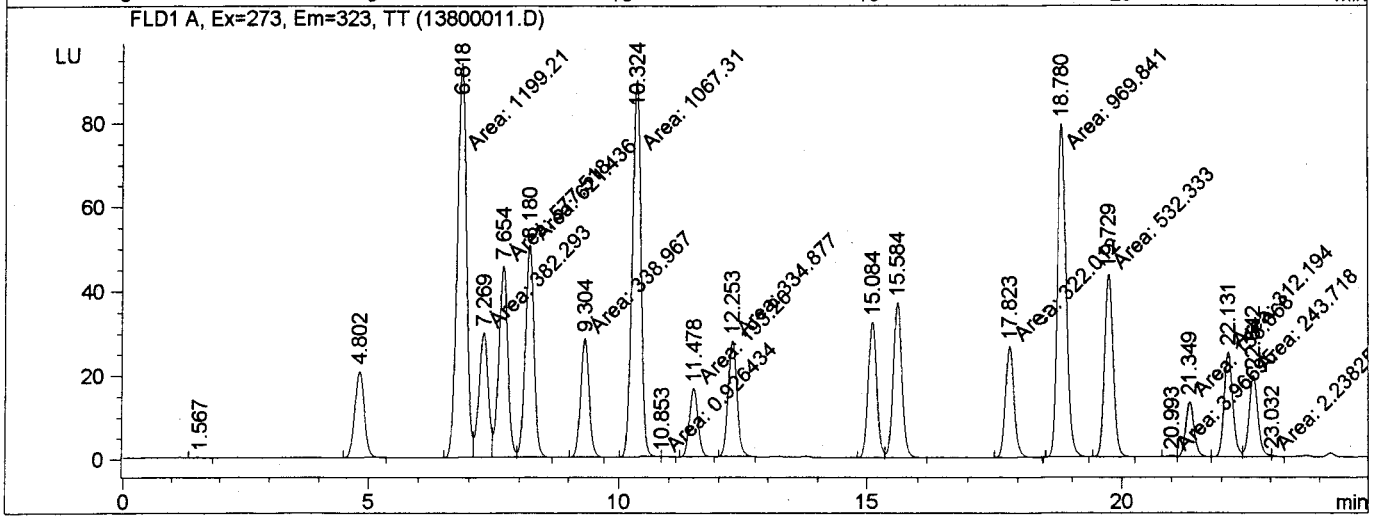
Injection Date	: 5/18/2006 10:31:01 PM	Seq. Line :	11
Sample Name	: ICAL,S3060	Location :	Vial 11
Acq. Operator	:	Inj :	1
Acq. Instrument	: HPLC 4	Inj Volume :	10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 5/22/2006 3:21:32 PM (modified after loading)		

HPLC04 METHOD 8310







John 22MAY 2006

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, May 22, 2006 3:21:31 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.766	BB	323.77454	77.03473	2.49419e4		Naphthalene
6.010	BP	462.20984	108.95921	5.03620e4		Acenaphthylene
6.782	VV	839.48529	118.81344	9.97421e4		1-Methylnaphthalene (UV)
7.233	VV	297.53644	86.84626	2.58399e4		2-Methylnaphthalene
7.618	VV	131.16444	199.10257	2.61152e4		Acenaphthene
8.143	MF	313.25665	15.90514	4982.38958		Fluorene
9.268	MM	448.64795	5.57507	2501.24265		Phenanthrene
10.288	MM	1062.12512	2.45979	2612.60556		Anthracene
11.443	MF	203.07642	24.36420	4947.79342		Fluoranthene
12.218	BV	83.91055	29.83193	2503.21375		Pyrene
15.048	BV	236.18423	10.90322	2575.16825		Benzo(a)anthracene
15.548	VB	334.09467	7.50045	2505.86040		Chrysene
17.787	BB	532.37317	9.38267	4995.07946		Benzo(b)fluoranthene
18.743	BB	208.88004	12.30105	2569.44342		Benzo(k)fluoranthene
19.693	BB	220.13969	11.51181	2534.20720		Benzo(a)pyrene
21.313	BP	110.60422	46.44187	5136.66707		Dibenz(a,h)anthracene
22.096	BV	181.34886	28.06000	5088.64952		Benzo(g,h,i)perylene
22.606	MF	250.73134	10.47541	2626.51304		Indeno(1,2,3-cd)pyrene

Totals : 2.72580e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.010	BV	1390.57104	35.87315	4.98842e4		Acenaphthylene
6.782	VV	304.35931	328.83554	1.00084e5		1-Methylnaphthalene (UV)

Totals : 1.49968e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.802	BB	274.47531	86.40738	2.37167e4		Naphthalene
6.818	MF	1199.20923	78.75727	9.44464e4		1-Methylnaphthalene (F)
7.269	MF	382.29327	63.42093	2.42454e4		2-Methylnaphthalene
7.654	MF	577.51837	41.92597	2.42130e4		Acenaphthene
8.180	FM	621.43634	7.70284	4786.82712		Fluorene
9.304	MM	338.96707	7.22229	2448.12001		Phenanthrene
10.324	MF	1067.30798	2.42183	2584.83993		Anthracene
11.478	MM	193.25951	24.60893	4755.90941		Fluoranthene
12.253	MM	334.87701	7.52983	2521.56751		Pyrene
15.084	BV	377.89438	6.59466	2492.08549		Benzo(a)anthracene
15.584	VB	448.13257	5.42929	2433.04015		Chrysene

Data File G:\HPLC4\DATA\13800011.D

Sample Name: ICAL,S3060

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.823	MM	322.01157	15.00203	4830.82609		Benzo(b)fluoranthene
18.780	MF	969.84100	2.55700	2479.88194		Benzo(k)fluoranthene
19.729	FM	532.33307	4.66865	2485.27878		Benzo(a)pyrene
21.349	MF	158.06801	31.38061	4960.27030		Dibenz(a,h)anthracene
22.131	MF	312.19437	15.73373	4911.98087		Benzo(g,h,i)perylene
22.642	FM	243.71762	10.29974	2510.22694		Indeno(1,2,3-cd)pyrene
Totals :				2.10822e5		

Results obtained with enhanced integrator!

*** End of Report ***

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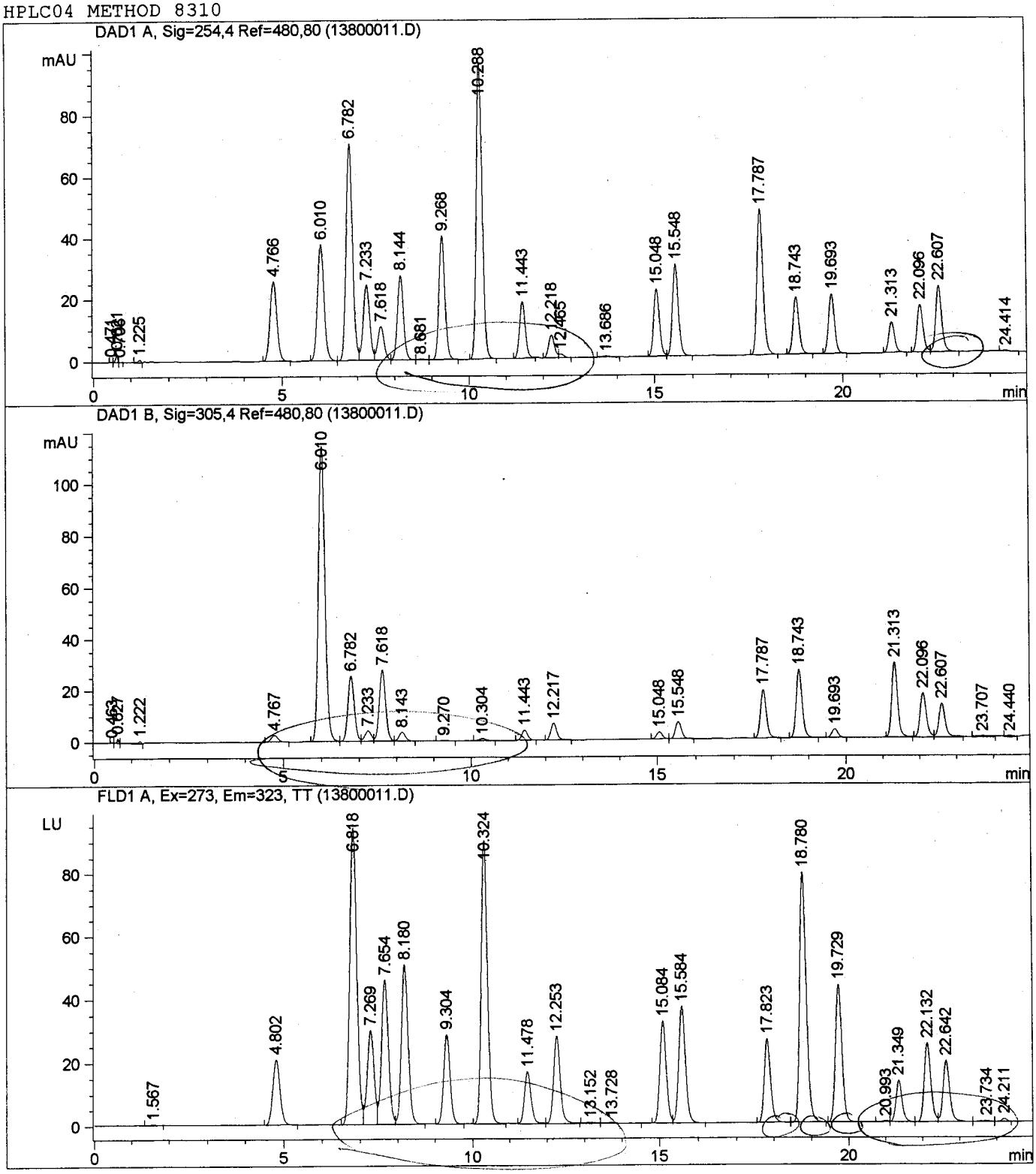
Injection Date	: 5/18/2006 10:31:01 PM	Seq. Line	: 11
Sample Name	: ICAL,S3060	Location	: Vial 11
Acq. Operator	:	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Sequence File	: G:\HPLC4\SEQUENCE\051806.S		
Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		

HPLC04 METHOD 8310



External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.766	BB	323.77454	77.04174	2.49442e4		Naphthalene
6.010	BP	462.20984	108.96101	5.03629e4		Acenaphthylene
6.782	VV	839.48529	118.81516	9.97436e4		1-Methylnaphthalene (UV)
7.233	VV	297.53644	87.16540	2.59349e4		2-Methylnaphthalene
7.618	VV	131.16444	199.69775	2.61932e4		Acenaphthene
8.144	VB	313.39435	15.89704	4982.04190		Fluorene
9.268	VP	448.48541	5.57580	2500.66337		Phenanthrene
10.288	BB	1061.97949	2.46834	2621.32432		Anthracene
11.443	BB	203.57274	24.34938	4956.87079		Fluoranthene
12.218	BV	83.91055	29.88551	2507.70959		Pyrene
15.048	BV	236.18423	10.93811	2583.40986		Benzo(a)anthracene
15.548	VB	334.09467	7.50657	2507.90488		Chrysene
17.787	BB	532.37317	9.38338	4995.45759		Benzo(b)fluoranthene
18.743	BB	208.88004	12.33952	2577.47867		Benzo(k)fluoranthene
19.693	BB	220.13969	11.52826	2537.82663		Benzo(a)pyrene
21.313	BP	110.60422	46.58184	5152.14743		Dibenz(a,h)anthracene
22.096	BV	181.34886	28.08822	5093.76675		Benzo(g,h,i)perylene
22.607	VB	252.14905	10.52056	2652.74918		Indeno(1,2,3-cd)pyrene

Totals : 2.72848e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.010	BV	1390.57104	35.88040	4.98942e4		Acenaphthylene
6.782	VV	304.35931	328.86140	1.00092e5		1-Methylnaphthalene (UV)

Totals : 1.49986e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.802	BB	274.47531	85.88502	2.35733e4		Naphthalene
6.818	BV	1198.31677	78.02871	9.35031e4		1-Methylnaphthalene (F)
7.269	VV	383.06503	63.11886	2.41786e4		2-Methylnaphthalene
7.654	VV	579.99280	41.70325	2.41876e4		Acenaphthene
8.180	VB	625.75739	7.65378	4789.40940		Fluorene
9.304	BB	344.67456	7.19843	2481.11505		Phenanthrene
10.324	BB	1075.74207	2.42800	2611.90128		Anthracene
11.478	BV	202.66354	24.49057	4963.34569		Fluoranthene
12.253	VB	346.76657	7.52516	2609.47292		Pyrene
15.084	BV	377.89438	6.59224	2491.17223		Benzo(a)anthracene
15.584	VB	448.13257	5.41370	2426.05403		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.823	BV	322.26624	14.95346	4818.99407		Benzo(b)fluoranthene
18.780	VB	971.35138	2.55497	2481.77271		Benzo(k)fluoranthene
19.729	BB	534.24500	4.66449	2491.98169		Benzo(a)pyrene
21.349	VV	159.44664	31.36788	5001.50353		Dibenz(a,h)anthracene
22.132	VV	312.34949	15.69181	4901.32775		Benzo(g,h,i)perylene
22.642	VP	247.08812	10.31012	2547.50745		Indeno(1,2,3-cd)pyrene

Totals : 2.10058e5

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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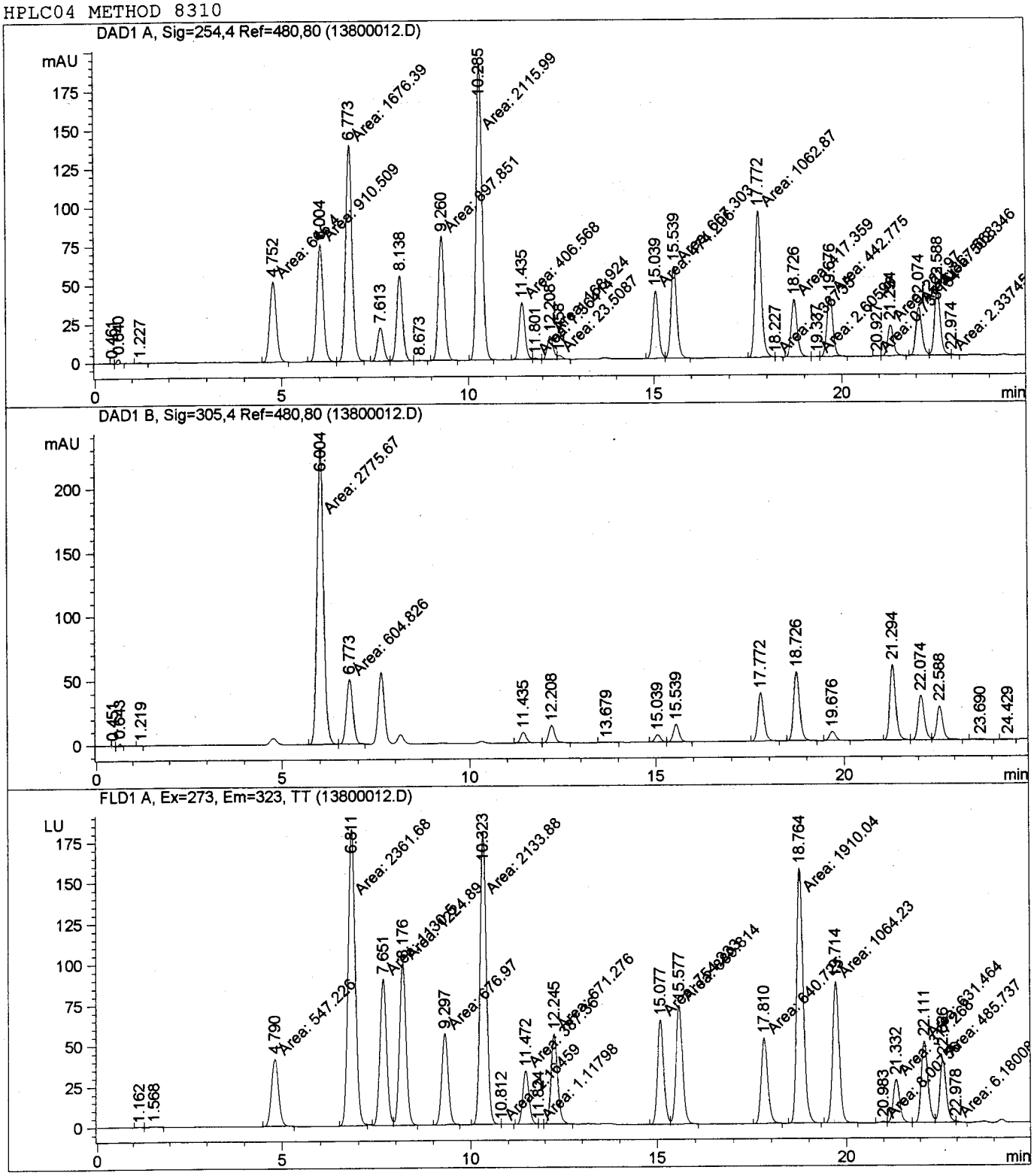
Injection Date	: 5/18/2006 11:02:39 PM	Seq. Line	: 12
Sample Name	: ICAL,S3059	Location	: Vial 12
Acq. Operator	:	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Acq. Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		
Analysis Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 5/22/2006 3:28:39 PM (modified after loading)		

HPLC04 METHOD 8310



JM 22MAY2006

External Standard Report

Sorted By : Signal
Calib. Data Modified : Monday, May 22, 2006 3:28:38 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.752	MF	646.40033	77.07612	4.98220e4		Naphthalene
6.004	FM	910.50854	109.18851	9.94171e4		Acenaphthylene
6.773	MF	1676.38977	118.98882	1.99472e5		1-Methylnaphthalene (UV)
7.233		-	-	-		2-Methylnaphthalene
7.613	VV	254.87729	198.40751	5.05696e4		Acenaphthene
8.138	VV	624.78467	15.90421	9936.70941		Fluorene
9.260	MM	897.85052	5.57146	5002.33922		Phenanthrene
10.285	MM	2115.98950	2.44709	5178.02103		Anthracene
11.435	MF	406.56757	24.35786	9903.11580		Fluoranthene
12.208	MF	168.92415	29.76318	5027.71993		Pyrene
15.039	MF	474.20624	10.83458	5137.82420		Benzo(a)anthracene
15.539	FM	667.30255	7.48652	4995.77581		Chrysene
17.772	MF	1062.87402	9.37069	9959.86236		Benzo(b)fluoranthene
18.726	MF	417.35922	12.22679	5102.96369		Benzo(k)fluoranthene
19.676	FM	442.77490	11.46298	5075.52159		Benzo(a)pyrene
21.294	FM	222.97006	46.12782	1.02851e4		Dibenz(a,h)anthracene
22.074	MF	367.56784	27.89437	1.02531e4		Benzo(g,h,i)perylene
22.588	MF	502.34595	10.39287	5220.81462		Indeno(1,2,3-cd)pyrene

Totals : 4.90359e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.004	MF	2775.66528	35.86107	9.95383e4		Acenaphthylene
6.773	FM	604.82648	328.74202	1.98832e5		1-Methylnaphthalene (UV)

Totals : 2.98370e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.790	MM	547.22638	87.08962	4.76577e4		Naphthalene
6.811	MF	2361.67969	83.32765	1.96793e5		1-Methylnaphthalene (F)
7.269		-	-	-		2-Methylnaphthalene
7.651	MF	1130.49866	43.28515	4.89338e4		Acenaphthene
8.176	FM	1224.89038	8.04138	9849.80577		Fluorene
9.297	MM	676.96960	7.24241	4902.89295		Phenanthrene
10.323	MF	2133.87500	2.41150	5145.83830		Anthracene
11.472	MF	387.35989	24.72890	9578.98339		Fluoranthene
12.245	FM	671.27612	7.50107	5035.28740		Pyrene
15.077	MF	754.23340	6.59027	4970.60031		Benzo(a)anthracene
15.577	FM	889.81403	5.44895	4848.55299		Chrysene

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
17.810	MF	640.72485	15.04099	9637.13468		Benzo(b)fluoranthene
18.764	MF	1910.04431	2.56418	4897.69612		Benzo(k)fluoranthene
19.714	FM	1064.23083	4.67173	4971.79629		Benzo(a)pyrene
21.332	MF	317.26797	31.32419	9938.16173		Dibenz(a,h)anthracene
22.111	MF	631.46387	15.72006	9926.65107		Benzo(g,h,i)perylene
22.626	MF	485.73682	10.27600	4991.42935		Indeno(1,2,3-cd)pyrene
Totals :				3.82080e5		

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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*** End of Report ***

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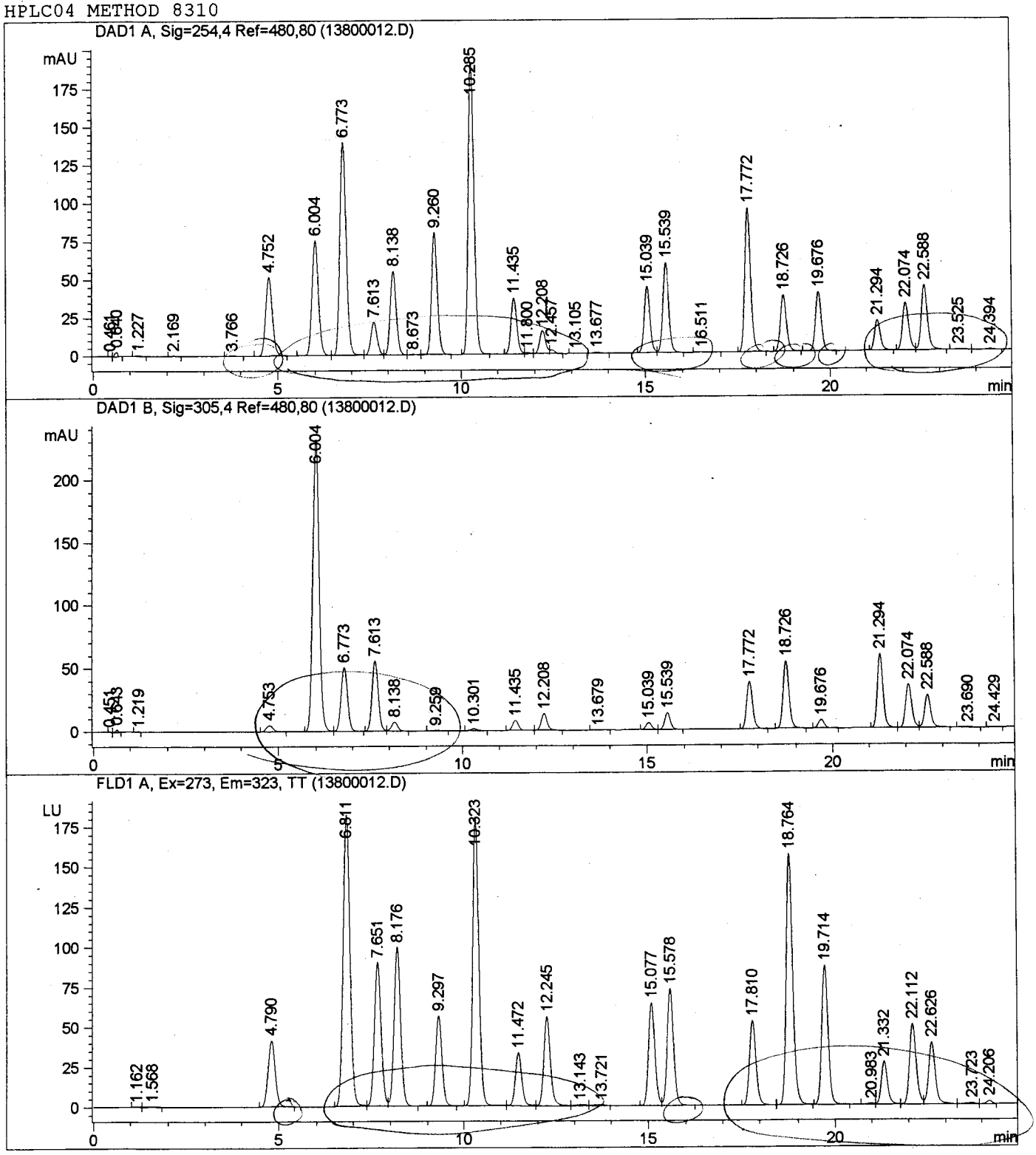
Injection Date	: 5/18/2006 11:02:39 PM	Seq. Line	: 12
Sample Name	: ICAL,S3059	Location	: Vial 12
Acq. Operator	:	Inj	: 1
Acq. Instrument	: HPLC 4	Inj Volume	: 10 µl
Sequence File	: G:\HPLC4\SEQUENCE\051806.S		
Method	: G:\HPLC4\METHODS\8310-315.M		
Last changed	: 11/14/2005 4:15:05 PM by HPL		

HPLC04 METHOD 8310



External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/14/2005 4:07:02 PM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=254,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
4.752	BB	647.11890	77.07988	4.98798e4		Naphthalene
6.004	BV	912.25122	109.18989	9.96086e4		Acenaphthylene
6.773	VV	1680.09778	118.97171	1.99884e5		1-Methylnaphthalene (UV)
7.280		-	-	-		2-Methylnaphthalene
7.613	VV	254.87729	200.01456	5.09792e4		Acenaphthene
8.138	VV	624.78467	15.90159	9935.07086		Fluorene
9.260	VP	897.27557	5.57725	5004.33135		Phenanthrene
10.285	BB	2119.75391	2.46996	5235.70870		Anthracene
11.435	BV	408.83698	24.33764	9950.12774		Fluoranthene
12.208	VV	170.09651	29.83382	5074.62814		Pyrene
15.039	BV	473.34891	10.92504	5171.35520		Benzo(a)anthracene
15.539	VB	667.50586	7.50261	5008.03940		Chrysene
17.772	BB	1063.61365	9.37834	9974.92650		Benzo(b)fluoranthene
18.726	BB	418.83893	12.31779	5159.16865		Benzo(k)fluoranthene
19.676	BB	446.29416	11.50956	5136.65018		Benzo(a)pyrene
21.294	BB	225.02155	46.44878	1.04520e4		Dibenz(a,h)anthracene
22.074	BV	371.40533	28.03933	1.04140e4		Benzo(g,h,i)perylene
22.588	VB	515.19666	10.50293	5411.07420		Indeno(1,2,3-cd)pyrene

Totals : 4.92279e5

Results obtained with enhanced integrator!

Signal 2: DAD1 B, Sig=305,4 Ref=480,80

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/l]	Grp	Name
6.004	BV	2778.81055	35.87769	9.96973e4		Acenaphthylene
6.773	VB	611.06848	329.06802	2.01083e5		1-Methylnaphthalene (UV)

Totals : 3.00780e5

Results obtained with enhanced integrator!

Signal 3: FLD1 A, Ex=273, Em=323, TT

RetTime [min]	Type	Area LU *s	Amt/Area	Amount [ug/l]	Grp	Name
4.790	PB	547.48273	86.05693	4.71147e4		Naphthalene
6.811	BV	2369.09570	78.21735	1.85304e5		1-Methylnaphthalene (F)
7.335		-	-	-		2-Methylnaphthalene
7.651	VV	1133.23621	41.75800	4.73217e4		Acenaphthene
8.176	VB	1233.21008	7.66789	9456.11427		Fluorene
9.297	BB	689.82300	7.21118	4974.43826		Phenanthrene
10.323	BV	2161.75854	2.42917	5251.28847		Anthracene
11.472	VV	409.37646	24.49725	1.00286e4		Fluoranthene
12.245	VB	697.09406	7.52831	5247.94082		Pyrene
15.077	BV	753.48712	6.59403	4968.51811		Benzo(a)anthracene
15.578	VB	891.79449	5.41959	4833.16022		Chrysene

RetTime [min]	Type	Area LU	Amt/Area *s	Amount [ug/l]	Grp	Name
17.810	BV	642.02924	14.95403	9600.92695		Benzo(b)fluoranthene
18.764	VB	1914.31885	2.55862	4898.01258		Benzo(k)fluoranthene
19.714	BB	1070.08130	4.66813	4995.27412		Benzo(a)pyrene
21.332	VV	322.53784	31.32121	1.01023e4		Dibenz(a,h)anthracene
22.112	VV	634.13263	15.67801	9941.93455		Benzo(g,h,i)perylene
22.626	VV	498.78516	10.29754	5136.25837		Indeno(1,2,3-cd)pyrene
Totals :				3.69175e5		

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 187137 HPLC Water
EPA 8310

Inst : HPLC04
Calnum : 296199754001 Cal Date: 18-MAY-2006

ICV 296199754015 (13800015 19-MAY-2006) stds: S3051

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Naphthalene	1	0.0130	0.0134	5000	5126	ug/L	3	15	
Acenaphthylene	1	0.0093	0.0100	10000	10680	ug/L	7	15	
Acenaphthene	1	0.0052	0.0057	5000	5392	ug/L	8	15	
Fluorene	1	0.0627	0.0646	1000	1028	ug/L	3	15	
Phenanthrene	1	0.1800	0.1815	500.0	503.1	ug/L	1	15	
Anthracene	1	0.4248	0.4384	500.0	513.4	ug/L	3	15	
Fluoranthene	1	0.0409	0.0422	1000	1034	ug/L	3	15	
Pyrene	1	0.0342	0.0343	500.0	508.5	ug/L	2	15	
Benzo(a)anthracene	1	0.0943	0.0969	500.0	511.5	ug/L	2	15	
Chrysene	1	0.1335	0.1357	500.0	505.0	ug/L	1	15	
Benzo(b)fluoranthene	1	0.1059	0.1090	1000	1023	ug/L	2	15	
Benzo(k)fluoranthene	1	0.0821	0.0850	500.0	510.7	ug/L	2	15	
Benzo(a)pyrene	1	0.0870	0.0890	500.0	508.4	ug/L	2	15	
Dibenz(a,h)anthracene	1	0.0212	0.0222	1000	1017	ug/L	2	15	
Benzo(g,h,i)perylene	1	0.0351	0.0359	1000	1004	ug/L	0	15	
Indeno(1,2,3-cd)pyrene	1	0.0976	0.1026	500.0	515.2	ug/L	3	15	
Acenaphthylene	2	0.0279	0.0285	10000	10180	ug/L	2	15	
Naphthalene	3	0.0110	0.0113	5000	5130	ug/L	3	15	
Acenaphthene	3	0.0233	0.0248	5000	5302	ug/L	6	15	
Fluorene	3	0.1263	0.1289	1000	1020	ug/L	2	15	
Phenanthrene	3	0.1362	0.1386	500.0	508.6	ug/L	2	15	
Anthracene	3	0.4263	0.4399	500.0	513.7	ug/L	3	15	
Fluoranthene	3	0.0387	0.0407	1000	1050	ug/L	5	15	
Pyrene	3	0.1332	0.1384	500.0	517.2	ug/L	3	15	
Benzo(a)anthracene	3	0.1515	0.1558	500.0	512.8	ug/L	3	15	
Chrysene	3	0.1803	0.1841	500.0	509.6	ug/L	2	15	
Benzo(b)fluoranthene	3	0.0643	0.0664	1000	1027	ug/L	3	15	
Benzo(k)fluoranthene	3	0.3904	0.4029	500.0	513.5	ug/L	3	15	
Benzo(a)pyrene	3	0.2132	0.2200	500.0	513.9	ug/L	3	15	
Dibenz(a,h)anthracene	3	0.0311	0.0322	1000	1025	ug/L	3	15	
Benzo(g,h,i)perylene	3	0.0613	0.0619	1000	1004	ug/L	0	15	
Indeno(1,2,3-cd)pyrene	3	0.0971	0.1010	500.0	517.9	ug/L	4	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187137 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: L IDF : 1.0
Seqnum : 296229549002 File : 15900002 Time : 08-JUN-2006 10:21
Cal : 296199754001 Caldate : 18-MAY-2006
Standards: S3190

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0128	2500	2427	ug/L	-3	15	
Acenaphthylene	1	0.0093	0.0090	5000	4648	ug/L	-7	15	
Acenaphthene	1	0.0052	0.0050	2500	2279	ug/L	-9	15	
Fluorene	1	0.0627	0.0607	500.0	480.0	ug/L	-4	15	
Phenanthrene	1	0.1800	0.1752	250.0	241.3	ug/L	-3	15	
Anthracene	1	0.4248	0.4003	250.0	231.9	ug/L	-7	15	
Fluoranthene	1	0.0409	0.0396	500.0	483.5	ug/L	-3	15	
Pyrene	1	0.0342	0.0325	250.0	240.6	ug/L	-4	15	
Benzo(a)anthracene	1	0.0943	0.0891	250.0	235.7	ug/L	-6	15	
Chrysene	1	0.1335	0.1306	250.0	241.4	ug/L	-3	15	
Benzo(b)fluoranthene	1	0.1059	0.1024	500.0	478.5	ug/L	-4	15	
Benzo(k)fluoranthene	1	0.0821	0.0787	250.0	237.3	ug/L	-5	15	
Benzo(a)pyrene	1	0.0870	0.0814	250.0	235.8	ug/L	-6	15	
Dibenz(a,h)anthracene	1	0.0212	0.0201	500.0	473.4	ug/L	-5	15	
Benzo(g,h,i)perylene	1	0.0351	0.0334	500.0	482.5	ug/L	-3	15	
Indeno(1,2,3-cd)pyrene	1	0.0976	0.0904	250.0	229.6	ug/L	-8	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0084	50000	49540	ug/L	-1	15	
Acenaphthylene	2	0.0279	0.0272	5000	4809	ug/L	-4	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	49270	ug/L	-1	15	
Naphthalene	3	0.0110	0.0114	2500	2545	ug/L	2	15	
Acenaphthene	3	0.0233	0.0239	2500	2458	ug/L	-2	15	
Fluorene	3	0.1263	0.1267	500.0	484.9	ug/L	-3	15	
Phenanthrene	3	0.1362	0.1385	250.0	252.5	ug/L	1	15	
Anthracene	3	0.4263	0.4124	250.0	239.9	ug/L	-4	15	
Fluoranthene	3	0.0387	0.0383	500.0	493.3	ug/L	-1	15	
Pyrene	3	0.1332	0.1323	250.0	248.3	ug/L	-1	15	
Benzo(a)anthracene	3	0.1515	0.1478	250.0	241.1	ug/L	-4	15	
Chrysene	3	0.1803	0.1810	250.0	246.5	ug/L	-1	15	
Benzo(b)fluoranthene	3	0.0643	0.0638	500.0	488.6	ug/L	-2	15	
Benzo(k)fluoranthene	3	0.3904	0.3883	250.0	240.3	ug/L	-4	15	
Benzo(a)pyrene	3	0.2132	0.2103	250.0	244.1	ug/L	-2	15	
Dibenz(a,h)anthracene	3	0.0311	0.0297	500.0	477.3	ug/L	-5	15	
Benzo(g,h,i)perylene	3	0.0613	0.0587	500.0	489.0	ug/L	-2	15	
Indeno(1,2,3-cd)pyrene	3	0.0971	0.0916	250.0	233.7	ug/L	-7	15	
1-Methylnaphthalene (F)	3	0.0122	0.0126	50000	52810	ug/L	6	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187137 HPLC Water
EPA 8310

Inst : HPLC04 Run Name: H IDF : 1.0
Seqnum : 296229549013 File : 15900013 Time : 08-JUN-2006 16:10
Cal : 296199754001 Caldate : 18-MAY-2006
Standards: S2954

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Naphthalene	1	0.0130	0.0129	10000	9937	ug/L	-1	15	
Acenaphthylene	1	0.0093	0.0091	20000	19790	ug/L	-1	15	
Acenaphthene	1	0.0052	0.0051	10000	9858	ug/L	-1	15	
Fluorene	1	0.0627	0.0619	2000	1976	ug/L	-1	15	
Phenanthrene	1	0.1800	0.1770	1000	983.8	ug/L	-2	15	
Anthracene	1	0.4248	0.4046	1000	951.4	ug/L	-5	15	
Fluoranthene	1	0.0409	0.0399	2000	1960	ug/L	-2	15	
Pyrene	1	0.0342	0.0321	1000	951.2	ug/L	-5	15	
Benzo(a)anthracene	1	0.0943	0.0914	1000	964.7	ug/L	-4	15	
Chrysene	1	0.1335	0.1327	1000	991.2	ug/L	-1	15	
Benzo(b)fluoranthene	1	0.1059	0.1052	2000	1976	ug/L	-1	15	
Benzo(k)fluoranthene	1	0.0821	0.0820	1000	983.8	ug/L	-2	15	
Benzo(a)pyrene	1	0.0870	0.0848	1000	963.7	ug/L	-4	15	
Dibenz(a,h)anthracene	1	0.0212	0.0214	2000	1938	ug/L	-3	15	
Benzo(g,h,i)perylene	1	0.0351	0.0342	2000	1887	ug/L	-6	15	
Indeno(1,2,3-cd)pyrene	1	0.0976	0.0947	1000	946.6	ug/L	-5	15	
1-Methylnaphthalene (UV)	1	0.0085	0.0083	50000	49400	ug/L	-1	15	
Acenaphthylene	2	0.0279	0.0275	20000	19760	ug/L	-1	15	
1-Methylnaphthalene (UV)	2	0.0031	0.0030	50000	48940	ug/L	-2	15	
Naphthalene	3	0.0110	0.0111	10000	10080	ug/L	1	15	
Acenaphthene	3	0.0233	0.0233	10000	10110	ug/L	1	15	
Fluorene	3	0.1263	0.1251	2000	2011	ug/L	1	15	
Phenanthrene	3	0.1362	0.1369	1000	1008	ug/L	1	15	
Anthracene	3	0.4263	0.4125	1000	964.9	ug/L	-4	15	
Fluoranthene	3	0.0387	0.0391	2000	2018	ug/L	1	15	
Pyrene	3	0.1332	0.1323	1000	987.0	ug/L	-1	15	
Benzo(a)anthracene	3	0.1515	0.1497	1000	989.0	ug/L	-1	15	
Chrysene	3	0.1803	0.1813	1000	1011	ug/L	1	15	
Benzo(b)fluoranthene	3	0.0643	0.0645	2000	2004	ug/L	0	15	
Benzo(k)fluoranthene	3	0.3904	0.3914	1000	1010	ug/L	1	15	
Benzo(a)pyrene	3	0.2132	0.2104	1000	986.0	ug/L	-1	15	
Dibenz(a,h)anthracene	3	0.0311	0.0313	2000	1981	ug/L	-1	15	
Benzo(g,h,i)perylene	3	0.0613	0.0605	2000	1939	ug/L	-3	15	
Indeno(1,2,3-cd)pyrene	3	0.0971	0.0948	1000	973.6	ug/L	-3	15	
1-Methylnaphthalene (F)	3	0.0122	0.0122	50000	50970	ug/L	2	15	

SEQUENCE SUMMARY FOR 187137 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296199754 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 18-MAY-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	13800001	X	PRIMER - 138			18-MAY-2006 17:14	1.0						
002	13800002	X	PRIMER			18-MAY-2006 17:46	1.0						
003	13800003	X	IB - 138			18-MAY-2006 18:17	1.0						
004	13800004	X	IB			18-MAY-2006 18:49	1.0						
005	13800005	X	IB			18-MAY-2006 19:21	1.0						
006	13800006	ICAL				18-MAY-2006 19:52	1.0					1	
007	13800007	ICAL				18-MAY-2006 20:24	1.0					2	
008	13800008	ICAL				18-MAY-2006 20:56	1.0					3	
009	13800009	ICAL				18-MAY-2006 21:27	1.0					4	
010	13800010	ICAL				18-MAY-2006 21:59	1.0					5	
011	13800011	ICAL				18-MAY-2006 22:31	1.0					6	
012	13800012	ICAL				18-MAY-2006 23:02	1.0					7	
013	13800013	X	IB			18-MAY-2006 23:34	1.0						
014	13800014	X	IB			19-MAY-2006 00:05	1.0						
015	13800015	ICV	ICV			19-MAY-2006 00:37	1.0		10			8	208
016	13800016	X	ICV			19-MAY-2006 01:09	1.0					8	
017	13800017	X	IB			19-MAY-2006 01:40	1.0						

Stds used: 1=S3065 2=S3064 3=S3063 4=S3062 5=S3061 6=S3060 7=S3059 8=S3051

SEQUENCE SUMMARY FOR 187137 HPLC Water
Curtis & Tompkins Laboratories

Sequence: 296229549 Instrument: HPLC04 High Pressure Liquid Chromatograph #4 Begun: 08-JUN-2006
Analytical Method: EPA 8310 SOP Version: 8310_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	15900001	X	IB - 159			08-JUN-2006 09:49	1.0					
002	15900002	CCV	L			08-JUN-2006 10:21	1.0	1.0		10	1	
003	15900003	X	IB			08-JUN-2006 10:53	1.0					
004	15900004	X,BLANK	QC343001	114177	Water	08-JUN-2006 11:24	1.0					
005	15900005	X,SAMPL	187137-001	114177	Water	08-JUN-2006 11:56	1.0					
006	15900006	X	IB			08-JUN-2006 12:28	1.0					
007	15900007	X	IB			08-JUN-2006 13:00	1.0					
008	15900008	BLANK	QC343001	114177	Water	08-JUN-2006 13:31	1.0	0.002		10		
009	15900009	SAMPLE	187137-001	114177	Water	08-JUN-2006 14:03	1.0	0.001887		10		
010	15900010	BS	QC343002	114177	Water	08-JUN-2006 14:35	1.0	0.002		10		
011	15900011	BSD	QC343003	114177	Water	08-JUN-2006 15:06	1.0	0.002		10		
012	15900012	X	IB			08-JUN-2006 15:38	1.0					
013	15900013	CCV	H			08-JUN-2006 16:10	1.0	1.0		10	2	
014	15900014	X	IB			08-JUN-2006 16:41	1.0					

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Stds used: 1=S3190 2=S2954

REPORTING SUMMARY FOR 187137 HPLC Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
187137-001	Naphthalene	HPLC04	1	06/08/06 14:03
187137-001	Acenaphthylene	HPLC04	1	06/08/06 14:03
187137-001	Acenaphthene	HPLC04	1	06/08/06 14:03
187137-001	Fluorene	HPLC04	1	06/08/06 14:03
187137-001	Phenanthrene	HPLC04	3	06/08/06 14:03
187137-001	Anthracene	HPLC04	3	06/08/06 14:03
187137-001	Fluoranthene	HPLC04	3	06/08/06 14:03
187137-001	Pyrene	HPLC04	3	06/08/06 14:03
187137-001	Benzo(a)anthracene	HPLC04	3	06/08/06 14:03
187137-001	Chrysene	HPLC04	3	06/08/06 14:03
187137-001	Benzo(b)fluoranthene	HPLC04	3	06/08/06 14:03
187137-001	Benzo(k)fluoranthene	HPLC04	3	06/08/06 14:03
187137-001	Benzo(a)pyrene	HPLC04	3	06/08/06 14:03
187137-001	Dibenz(a,h)anthracene	HPLC04	3	06/08/06 14:03
187137-001	Benzo(g,h,i)perylene	HPLC04	3	06/08/06 14:03
187137-001	Indeno(1,2,3-cd)pyrene	HPLC04	3	06/08/06 14:03
187137-001	1-Methylnaphthalene (UV)	HPLC04	1	06/08/06 14:03
187137-001	1-Methylnaphthalene (F)	HPLC04	3	06/08/06 14:03
QC343001	Naphthalene	HPLC04	1	06/08/06 13:31
QC343001	Acenaphthylene	HPLC04	1	06/08/06 13:31
QC343001	Acenaphthene	HPLC04	1	06/08/06 13:31
QC343001	Fluorene	HPLC04	1	06/08/06 13:31
QC343001	Phenanthrene	HPLC04	3	06/08/06 13:31
QC343001	Anthracene	HPLC04	3	06/08/06 13:31
QC343001	Fluoranthene	HPLC04	3	06/08/06 13:31
QC343001	Pyrene	HPLC04	3	06/08/06 13:31
QC343001	Benzo(a)anthracene	HPLC04	3	06/08/06 13:31
QC343001	Chrysene	HPLC04	3	06/08/06 13:31
QC343001	Benzo(b)fluoranthene	HPLC04	3	06/08/06 13:31
QC343001	Benzo(k)fluoranthene	HPLC04	3	06/08/06 13:31
QC343001	Benzo(a)pyrene	HPLC04	3	06/08/06 13:31
QC343001	Dibenz(a,h)anthracene	HPLC04	3	06/08/06 13:31
QC343001	Benzo(g,h,i)perylene	HPLC04	3	06/08/06 13:31
QC343001	Indeno(1,2,3-cd)pyrene	HPLC04	3	06/08/06 13:31
QC343001	1-Methylnaphthalene (UV)	HPLC04	1	06/08/06 13:31
QC343001	1-Methylnaphthalene (F)	HPLC04	3	06/08/06 13:31
QC343002	Naphthalene	HPLC04	1	06/08/06 14:35
QC343002	Fluorene	HPLC04	1	06/08/06 14:35
QC343002	Pyrene	HPLC04	3	06/08/06 14:35
QC343002	Benzo(a)pyrene	HPLC04	3	06/08/06 14:35
QC343002	1-Methylnaphthalene (UV)	HPLC04	1	06/08/06 14:35
QC343002	1-Methylnaphthalene (F)	HPLC04	3	06/08/06 14:35
QC343003	Naphthalene	HPLC04	1	06/08/06 15:06
QC343003	Fluorene	HPLC04	1	06/08/06 15:06
QC343003	Pyrene	HPLC04	3	06/08/06 15:06
QC343003	Benzo(a)pyrene	HPLC04	3	06/08/06 15:06
QC343003	1-Methylnaphthalene (UV)	HPLC04	1	06/08/06 15:06
QC343003	1-Methylnaphthalene (F)	HPLC04	3	06/08/06 15:06

Curtis & Tompkins Laboratories **Sample Preparation Summary** **08-JUN-2006 11:55**

Batch Number : 114177
Date Extracted: 06-JUN-2006
Extracted by : Matthew Josh McManus
Prep Method : 3520C

Analysis : 8310
Bgroup : N/A
Units : mL
Clean-up :

Spike #1 ID : S3376N
Spike #2 ID : S3553C
Spike #3 ID :
SOP Version : 8310w_rv6

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
187137-001		Treadwell & Rollo	Water	1060	mL	2	0.001887	1	6	.1	0		8310		
QC343001	BLANK		Water	1000	mL	2	0.002000	1		.1	0		8310		
QC343002	BS		Water	1000	mL	2	0.002000	1		.1	1		8310		
QC343003	BSD		Water	1000	mL	2	0.002000	1		.1	1		8310		

Prep Chemist: JOM for MJM Reviewed By: [illegible] Date: 6/8/06

Relinquished By: JOM for RFW Received By: [illegible] Date: 08JUN2006

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Curtis & Tompkins, Ltd

8310 WATER PREP LOG

BK2190

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LIMS Batch No: 114177
LIMS Analysis: 8310
Extracted by: MJM
Date Extracted: 6/6/06

Extraction Method:
☐ EPA 3510c sep. funnel
☒ EPA 3520c cont. L/L
☐ _____

Cleanup Method (if needed):
☐ EPA 3640a GPC
☐ EPA 3630c Silica Gel

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
187137-001 M	1060	6	2.0		
MB QC343001	1000	N/A	↓		
BS ↓ 02	↓	↓	↓		
BSD ↓ 03	↓	↓	↓		

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8310 Water 3520C
As of 06/20/06

Analyte	Units	HPLC02 1	HPLC02 2	HPLC02 3	HPLC04 1	HPLC04 2	HPLC04 3
Naphthalene	ug/L	0.16		0.069	0.097		0.10
Acenaphthylene	ug/L	0.37	0.29		0.24	0.16	
2-Methylnaphthalene	ug/L				0.072		0.10
Acenaphthene	ug/L	0.36		0.098	0.33		0.085
Fluorene	ug/L	0.051		0.054	0.028		0.017
Phenanthrene	ug/L	0.030		0.0086	0.0082		0.0078
Anthracene	ug/L	0.021		0.0077	0.024		0.023
Fluoranthene	ug/L	0.13		0.011	0.042		0.013
Pyrene	ug/L	0.066		0.0048	0.036		0.010
Benzo(a)anthracene	ug/L	0.044		0.0046	0.022		0.013
Chrysene	ug/L	0.036		0.0059	0.021		0.0096
Benzo(b)fluoranthene	ug/L	0.032		0.0081	0.015		0.013
Benzo(k)fluoranthene	ug/L	0.037		0.0044	0.013		0.0080
Benzo(a)pyrene	ug/L	0.055		0.0045	0.017		0.025
Dibenz(a,h)anthracene	ug/L	0.12		0.026	0.037		0.025
Benzo(g,h,i)perylene	ug/L	0.066		0.014	0.047		0.017
Indeno(1,2,3-cd)pyrene	ug/L	0.065		0.011	0.013		0.0096
1-Methylnaphthalene (UV)	ug/L	1.2	1.9		9.0	9.1	
1-Methylnaphthalene (F)	ug/L			0.72			9.8

METALS

Curtis & Tompkins, Ltd.

Dissolved Target Analyte List Metals

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	DW053006B	Batch#:	113957
Lab ID:	187137-001	Sampled:	05/30/06
Matrix:	Filtrate	Received:	05/30/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	06/07/06	EPA 6010B
Antimony	ND	1.0	06/07/06	EPA 6020
Arsenic	ND	5.0	06/07/06	EPA 6010B
Barium	ND	10	06/07/06	EPA 6010B
Beryllium	ND	2.0	06/07/06	EPA 6010B
Cadmium	ND	1.0	06/08/06	EPA 6020
Calcium	2,000	500	06/07/06	EPA 6010B
Chromium	ND	10	06/07/06	EPA 6010B
Cobalt	ND	10	06/07/06	EPA 6010B
Copper	ND	1.0	06/07/06	EPA 6020
Iron	ND	100	06/07/06	EPA 6010B
Lead	ND	3.0	06/07/06	EPA 6010B
Magnesium	ND	500	06/07/06	EPA 6010B
Manganese	ND	10	06/07/06	EPA 6010B
Nickel	ND	20	06/07/06	EPA 6010B
Potassium	ND	500	06/07/06	EPA 6010B
Selenium	ND	5.0	06/07/06	EPA 6010B
Silver	ND	1.0	06/07/06	EPA 6020
Sodium	ND	500	06/07/06	EPA 6010B
Thallium	ND	1.0	06/07/06	EPA 6020
Vanadium	ND	10	06/07/06	EPA 6010B
Zinc	ND	20	06/07/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC342089	Batch#:	113957
Matrix:	Filtrate	Prepared:	05/31/06
Units:	ug/L		

Analyte	Result	RL	Analyzed	Analysis
Aluminum	ND	100	06/07/06	EPA 6010B
Antimony	ND	1.0	06/06/06	EPA 6020
Arsenic	ND	5.0	06/07/06	EPA 6010B
Barium	ND	10	06/07/06	EPA 6010B
Beryllium	ND	2.0	06/07/06	EPA 6010B
Cadmium	ND	1.0	06/07/06	EPA 6020
Calcium	ND	500	06/07/06	EPA 6010B
Chromium	ND	10	06/07/06	EPA 6010B
Cobalt	ND	10	06/07/06	EPA 6010B
Copper	ND	1.0	06/06/06	EPA 6020
Iron	ND	100	06/07/06	EPA 6010B
Lead	ND	3.0	06/07/06	EPA 6010B
Magnesium	ND	500	06/07/06	EPA 6010B
Manganese	ND	10	06/07/06	EPA 6010B
Nickel	ND	20	06/07/06	EPA 6010B
Potassium	ND	500	06/07/06	EPA 6010B
Selenium	ND	5.0	06/07/06	EPA 6010B
Silver	ND	1.0	06/06/06	EPA 6020
Sodium	ND	500	06/07/06	EPA 6010B
Thallium	ND	1.0	06/06/06	EPA 6020
Vanadium	ND	10	06/07/06	EPA 6010B
Zinc	ND	20	06/07/06	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved Mercury by Cold Vapor AA

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Sampled:	05/30/06
Field ID:	DW053006B	Received:	05/30/06
Units:	ug/L	Prepared:	06/09/06
Diln Fac:	1.000	Analyzed:	06/09/06
Batch#:	114273		

Type	Lab ID	Matrix	Result	RL
SAMPLE	187137-001	Filtrate	ND	0.20
BLANK	QC343401	Water	ND	0.20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Matrix:	Filtrate	Batch#:	113957
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Type: BS Lab ID: QC342090

Analyte	Spiked	Result	%REC	Limits	Analyzed	Analysis
Aluminum	100.0	88.69	89	80-120	06/07/06	EPA 6010B
Antimony	100.0	91.43	91	80-120	06/06/06	EPA 6020
Arsenic	100.0	100.2	100	80-120	06/07/06	EPA 6010B
Barium	100.0	100.3	100	80-120	06/07/06	EPA 6010B
Beryllium	100.0	101.5	102	80-120	06/07/06	EPA 6010B
Cadmium	100.0	92.76	93	80-120	06/07/06	EPA 6020
Calcium	10,000	9,858	99	80-120	06/07/06	EPA 6010B
Chromium	100.0	101.1	101	80-120	06/07/06	EPA 6010B
Cobalt	100.0	98.78	99	80-120	06/07/06	EPA 6010B
Copper	100.0	98.24	98	80-120	06/06/06	EPA 6020
Iron	10,000	9,678	97	80-120	06/07/06	EPA 6010B
Lead	100.0	99.18	99	80-120	06/07/06	EPA 6010B
Magnesium	10,000	9,623	96	80-120	06/07/06	EPA 6010B
Manganese	100.0	101.7	102	80-120	06/07/06	EPA 6010B
Nickel	100.0	100.3	100	80-120	06/07/06	EPA 6010B
Potassium	10,000	9,739	97	80-120	06/07/06	EPA 6010B
Selenium	100.0	99.12	99	80-120	06/07/06	EPA 6010B
Silver	100.0	83.68	84	80-120	06/06/06	EPA 6020
Sodium	10,000	10,030	100	80-120	06/07/06	EPA 6010B
Thallium	100.0	82.81	83	80-120	06/06/06	EPA 6020
Vanadium	100.0	100.3	100	80-120	06/07/06	EPA 6010B
Zinc	100.0	102.6	103	80-120	06/07/06	EPA 6010B

Type: BSD Lab ID: QC342091

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed	Analysis
Aluminum	100.0	81.50	81	80-120	8	20	06/07/06	EPA 6010B
Antimony	100.0	90.08	90	80-120	1	20	06/06/06	EPA 6020
Arsenic	100.0	102.5	102	80-120	2	20	06/07/06	EPA 6010B
Barium	100.0	100.1	100	80-120	0	20	06/07/06	EPA 6010B
Beryllium	100.0	100.9	101	80-120	1	20	06/07/06	EPA 6010B
Cadmium	100.0	91.79	92	80-120	1	20	06/07/06	EPA 6020
Calcium	10,000	10,110	101	80-120	3	20	06/07/06	EPA 6010B
Chromium	100.0	100.6	101	80-120	1	20	06/07/06	EPA 6010B
Cobalt	100.0	99.21	99	80-120	0	20	06/07/06	EPA 6010B
Copper	100.0	97.74	98	80-120	1	20	06/06/06	EPA 6020
Iron	10,000	9,691	97	80-120	0	20	06/07/06	EPA 6010B
Lead	100.0	99.61	100	80-120	0	20	06/07/06	EPA 6010B
Magnesium	10,000	9,794	98	80-120	2	20	06/07/06	EPA 6010B
Manganese	100.0	101.3	101	80-120	0	20	06/07/06	EPA 6010B
Nickel	100.0	100.6	101	80-120	0	20	06/07/06	EPA 6010B
Potassium	10,000	10,860	109	80-120	11	20	06/07/06	EPA 6010B
Selenium	100.0	101.2	101	80-120	2	20	06/07/06	EPA 6010B
Silver	100.0	82.56	83	80-120	1	20	06/06/06	EPA 6020
Sodium	10,000	11,040	110	80-120	10	20	06/07/06	EPA 6010B
Thallium	100.0	81.79	82	80-120	1	20	06/06/06	EPA 6020
Vanadium	100.0	99.21	99	80-120	1	20	06/07/06	EPA 6010B
Zinc	100.0	103.8	104	80-120	1	20	06/07/06	EPA 6010B

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Mercury by Cold Vapor AA

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	114273
Field ID:	ZZZZZZZZZZ	Sampled:	05/31/06
MSS Lab ID:	187166-009	Received:	06/01/06
Units:	ug/L	Prepared:	06/09/06
Diln Fac:	1.000	Analyzed:	06/09/06

Type	Lab ID	Matrix	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC343402	Water		5.000	5.140	103	80-120		
BSD	QC343403	Water		5.000	5.120	102	80-120	0	20
MS	QC343404	Filtrate	<0.02083	5.000	5.190	104	75-125		
MSD	QC343405	Filtrate		5.000	5.170	103	75-125	0	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	1065MW9B	Batch#:	113957
MSS Lab ID:	187112-002	Sampled:	05/25/06
Matrix:	Filtrate	Received:	05/26/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Type: MS Lab ID: QC342092

Analyte	MSS Result	Spiked	Result	%REC	Limits	Analyzed	Analysis
Aluminum	<42.49	100.0	62.35	62 *	75-125	06/07/06	EPA 6010B
Antimony	0.07985	100.0	91.68	92	75-125	06/06/06	EPA 6020
Arsenic	2.737	100.0	98.65	96	75-125	06/07/06	EPA 6010B
Barium	39.79	100.0	138.8	99	75-125	06/07/06	EPA 6010B
Beryllium	<0.2089	100.0	102.4	102	75-125	06/07/06	EPA 6010B
Cadmium	0.1496	100.0	84.37	84	75-125	06/07/06	EPA 6020
Calcium	36,600	10,000	45,060	85	75-125	06/07/06	EPA 6010B
Chromium	37.88	100.0	138.2	100	75-125	06/07/06	EPA 6010B
Cobalt	<0.4605	100.0	96.38	96	75-125	06/07/06	EPA 6010B
Copper	0.3338	100.0	91.08	91	75-125	06/06/06	EPA 6020
Iron	<17.23	10,000	9,440	94	75-125	06/07/06	EPA 6010B
Lead	<0.5698	100.0	95.97	96	75-125	06/07/06	EPA 6010B
Magnesium	49,790	10,000	57,170	74 NM	75-125	06/07/06	EPA 6010B
Manganese	<0.5991	100.0	101.7	102	75-125	06/07/06	EPA 6010B
Nickel	1.802	100.0	101.1	99	75-125	06/07/06	EPA 6010B
Potassium	726.7	10,000	10,700	100	75-125	06/07/06	EPA 6010B
Selenium	<1.575	100.0	97.81	98	75-125	06/07/06	EPA 6010B
Silver	<0.04084	100.0	79.25	79	75-125	06/06/06	EPA 6020
Sodium	54,880	10,000	63,560	87 NM	75-125	06/07/06	EPA 6010B
Thallium	0.4686	100.0	77.61	77	75-125	06/06/06	EPA 6020
Vanadium	13.33	100.0	114.1	101	75-125	06/07/06	EPA 6010B
Zinc	<1.533	100.0	101.9	102	75-125	06/07/06	EPA 6010B

*= Value outside of QC limits; see narrative
NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	1065MW9B	Batch#:	113957
MSS Lab ID:	187112-002	Sampled:	05/25/06
Matrix:	Filtrate	Received:	05/26/06
Units:	ug/L	Prepared:	05/31/06
Diln Fac:	1.000		

Type: MSD Lab ID: QC342093

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed	Analysis
Aluminum	100.0	48.35	48 *	75-125	25 *	20	06/07/06	EPA 6010B
Antimony	100.0	95.12	95	75-125	4	20	06/06/06	EPA 6020
Arsenic	100.0	108.5	106	75-125	10	20	06/07/06	EPA 6010B
Barium	100.0	141.5	102	75-125	2	20	06/07/06	EPA 6010B
Beryllium	100.0	103.7	104	75-125	1	20	06/07/06	EPA 6010B
Cadmium	100.0	85.81	86	75-125	2	20	06/07/06	EPA 6020
Calcium	10,000	46,610	100	75-125	3	20	06/07/06	EPA 6010B
Chromium	100.0	143.6	106	75-125	4	20	06/07/06	EPA 6010B
Cobalt	100.0	99.77	100	75-125	3	20	06/07/06	EPA 6010B
Copper	100.0	92.64	92	75-125	2	20	06/06/06	EPA 6020
Iron	10,000	9,602	96	75-125	2	20	06/07/06	EPA 6010B
Lead	100.0	96.52	97	75-125	1	20	06/07/06	EPA 6010B
Magnesium	10,000	59,090	93 NM	75-125	3	20	06/07/06	EPA 6010B
Manganese	100.0	102.6	103	75-125	1	20	06/07/06	EPA 6010B
Nickel	100.0	102.9	101	75-125	2	20	06/07/06	EPA 6010B
Potassium	10,000	10,940	102	75-125	2	20	06/07/06	EPA 6010B
Selenium	100.0	96.38	96	75-125	1	20	06/07/06	EPA 6010B
Silver	100.0	81.58	82	75-125	3	20	06/06/06	EPA 6020
Sodium	10,000	66,280	114 NM	75-125	4	20	06/07/06	EPA 6010B
Thallium	100.0	81.13	81	75-125	4	20	06/06/06	EPA 6020
Vanadium	100.0	116.7	103	75-125	2	20	06/07/06	EPA 6010B
Zinc	100.0	102.8	103	75-125	1	20	06/07/06	EPA 6010B

*= Value outside of QC limits; see narrative
NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Target Analyte List Metals

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51		
Field ID:	1065MW9B	Units:	ug/L
Type:	Serial Dilution	Diln Fac:	5.000
MSS Lab ID:	187112-002	Batch#:	113957
Lab ID:	QC342094	Sampled:	05/25/06
Matrix:	Filtrate	Received:	05/26/06

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Analyzed	Analysis
Aluminum	ND	100.0	ND	500.0	NC	10	06/07/06	EPA 6010B
Antimony	ND	1.000	ND	1.250	NC	10	06/06/06	EPA 6020
Arsenic	ND	5.000	7.052 J	25.00	NC	10	06/07/06	EPA 6010B
Barium	39.79	10.00	39.88	25.00	0	10	06/07/06	EPA 6010B
Beryllium	ND	2.000	ND	10.00	NC	10	06/07/06	EPA 6010B
Cadmium	ND	1.000	ND	1.250	NC	10	06/07/06	EPA 6020
Calcium	36,600	500.0	38,150	1,000	4	10	06/07/06	EPA 6010B
Chromium	37.88	10.00	38.43	25.00	1	10	06/07/06	EPA 6010B
Cobalt	ND	10.00	ND	25.00	NC	10	06/07/06	EPA 6010B
Copper	ND	1.000	ND	2.500	NC	10	06/06/06	EPA 6020
Iron	ND	100.0	ND	500.0	NC	10	06/07/06	EPA 6010B
Lead	ND	3.000	ND	15.00	NC	10	06/07/06	EPA 6010B
Magnesium	49,790	500.0	51,130	1,000	3	10	06/07/06	EPA 6010B
Manganese	ND	10.00	ND	25.00	NC	10	06/07/06	EPA 6010B
Nickel	ND	20.00	ND	25.00	NC	10	06/07/06	EPA 6010B
Potassium	726.7	500.0	ND	2,500	NC	10	06/07/06	EPA 6010B
Selenium	ND	5.000	ND	25.00	NC	10	06/07/06	EPA 6010B
Silver	ND	1.000	ND	1.250	NC	10	06/06/06	EPA 6020
Sodium	54,880	500.0	56,770	2,500	3	10	06/07/06	EPA 6010B
Thallium	ND	1.000	0.8661 J	2.500	NC	10	06/06/06	EPA 6020
Vanadium	13.33	10.00	14.40 J	25.00	NC	10	06/07/06	EPA 6010B
Zinc	ND	20.00	ND	100.0	NC	10	06/07/06	EPA 6010B

J= Estimated value
NC= Not Calculated
ND= Not Detected
RL= Reporting Limit

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : MSS
Inst : MET05
Seqnum: 56226997088
File : f0615088
IDF : 1.0
Lab ID: 187112-002
Matrix: Filtrate
Batch : 113957
Time : 06-JUN-2006 23:38
Cal : 56226997001
Units : ug/L

Type : PDS
Inst : MET05
Seqnum: 56226997092
File : f0615092
IDF : 1.0
Lab ID: QC342095
Matrix: Filtrate
Batch : 113957
Time : 07-JUN-2006 00:00
Cal : 56226997001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S3085 (100X), S3310

Analyte	MSS	Spiked	PDS	%Rec	Limits	Flags
Aluminum	1.720	100.0	101.8	100	75-125	<c+ **b***
Antimony	0.07985	100.0	92.86	93	75-125	
Arsenic	1.213	100.0	88.92	88	75-125	
Barium	35.24	100.0	126.7	91	75-125	
Beryllium	ND	100.0	97.45	97	75-125	
Chromium	34.30	100.0	124.9	91	75-125	
Cobalt	0.08024	100.0	88.66	89	75-125	
Copper	0.3338	100.0	92.38	92	75-125	
Iron	73.03	10000	9681	96	75-125	
Lead	ND	100.0	93.36	93	75-125	
Manganese	0.5746	100.0	87.26	87	75-125	
Molybdenum	ND	100.0	84.73	85	75-125	
Nickel	2.835	100.0	93.06	90	75-125	
Potassium	645.6	10000	9832	92	75-125	
Selenium	0.3919	100.0	79.82	79	75-125	
Silver	ND	100.0	81.00	81	75-125	
Thallium	0.4686	100.0	80.62	80	75-125	
Vanadium	11.22	100.0	98.82	88	75-125	
Zinc	2.446	100.0	88.72	86	75-125	

ISTD (ICALBLK f0615003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	409002	389117	-4.86
Scandium	289167	277526	-4.03
Germanium	59725	53871	-9.80
Indium	466498	354305	-24.05
Bismuth	483064	345236	-28.53

MISSING READINGS: **CD CA MG NA**

*=high bias <=opening b=noncompliant c=CCV

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6020

Type : PDS
Inst : MET05
Seqnum: 56228694036
File : f0719036
IDF : 1.0
Lab ID: QC342095
Matrix: Filtrate
Batch : 113957
Time : 07-JUN-2006 22:50
Cal : 56228694001
MSS : 187112-002
Units : ug/L

PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S3085 (100X)

Analyte	MSS Seqnum	Result	Spiked	PDS	%Rec	Limits	Flags
Aluminum	56226997088	1.720	100.0	118.0	116	75-125	<c+ >c+ b*
Antimony	56226997088	0.07985	100.0	101.1	101	75-125	
Arsenic	56226997088	1.213	100.0	96.89	96	75-125	
Barium	56228694027	37.00	100.0	134.7	98	75-125	
Beryllium	56228694027	0.05798	100.0	108.8	109	75-125	<c+ >c+ b*
Cadmium	56228694027	0.1496	100.0	84.40	84	75-125	
Chromium	56226997088	34.30	100.0	122.1	88	75-125	>c- b*
Cobalt	56228694027	0.1370	100.0	88.51	88	75-125	
Copper	56226997088	0.3338	100.0	95.70	95	75-125	
Iron	56226997088	73.03	10000	9843	98	75-125	
Lead	56226997088	ND	100.0	100.1	100	75-125	
Manganese	56226997088	0.5746	100.0	88.95	88	75-125	
Molybdenum	56228694027	0.3691	100.0	92.90	93	75-125	
Nickel	56226997088	2.835	100.0	96.94	94	75-125	
Potassium	56226997088	645.6	10000	10960	103	75-125	<c+ >c+ b*
Selenium	56228694027	ND	100.0	84.40	84	75-125	
Silver	56228694027	ND	100.0	86.68	87	75-125	
Thallium	56228694027	0.5459	100.0	87.80	87	75-125	
Vanadium	56226997088	11.22	100.0	98.45	87	75-125	
Zinc	56226997088	2.446	100.0	91.68	89	75-125	

ISTD (ICALBLK f0719003)	ICALBLK Abund	PDS Abund	%Drift
Lithium	566835	522618	-7.80
Scandium	419934	402810	-4.08
Germanium	79792	79873	0.10
Indium	561698	456002	-18.82
Bismuth	398573	298598	-25.08

MISSING READINGS: **CA MG NA**

+=high bias -=low bias <=opening >=closing b=noncompliant c=CCV

CURTIS & TOMPKINS POST DIGEST SPIKE USER REPORT FOR EPA 6010B

Type : MSS
Inst : MET08
Seqnum: 86228386019
File : 060706ar.txt
IDF : 1.0
Lab ID: 187112-002
Matrix: Filtrate
Batch : 113957
Time : 07-JUN-2006 15:44
Cal : 86228386001
Units : ug/L

Type : PDS
Inst : MET08
Seqnum: 86228386025
File : 060706ar.txt
IDF : 1.0
Lab ID: QC342095
Matrix: Filtrate
Batch : 113957
Time : 07-JUN-2006 16:01
Cal : 86228386001

MSS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF
PDS: 50.00 mL --> 50.0 ml = 1.0 ml/ml PDF

PDS standards: S1792 (100X), S1793 (100X)

Analyte	MSS	Ch	Spiked	PDS	Ch	%Rec	Limits	Flags
Aluminum	ND	R	2000	1970	R	99	75-125	
Antimony	ND	A	500.0	535.1	A	107	75-125	
Arsenic	2.737	A	100.0	112.3	A	110	75-125	
Barium	39.79	A	2000	2168	A	106	75-125	
Beryllium	ND	A	50.00	54.44	A	109	75-125	
Cadmium	ND	A	50.00	55.11	A	110	75-125	
Calcium	36600	R	20000	54830	R	91	75-125	
Chromium	37.88	A	200.0	253.5	A	108	75-125	
Cobalt	ND	A	500.0	516.6	A	103	75-125	
Copper	0.7775	A	250.0	267.7	A	107	75-125	
Iron	ND	R	1000	1006	R	101	75-125	
Lead	ND	A	100.0	99.04	A	99	75-125	
Magnesium	49790	R	20000	66870	R	85	75-125	
Manganese	ND	A	50.00	54.21	A	108	75-125	
Molybdenum	1.074	A	400.0	433.7	A	108	75-125	
Nickel	1.802	A	500.0	527.4	A	105	75-125	
Potassium	726.7	R	10000	11330	R	106	75-125	
Selenium	ND	A	100.0	107.5	A	107	75-125	
Silver	ND	A	50.00	54.39	A	109	75-125	
Sodium	54880	R	20000	74020	R	96	75-125	
Thallium	2.351	A	100.0	107.2	A	105	75-125	
Vanadium	13.33	A	500.0	544.4	A	106	75-125	
Zinc	ND	A	500.0	535.2	A	107	75-125	
Boron	97.96	A	1000	1199	A	110	75-125	
Tin	ND	A	1000	1082	A	108	75-125	
Titanium	ND	A	1000	1106	A	111	75-125	

ISTD (ICAL 002)	Ch	ICAL Abund	PDS Abund	%Drift
Yttrium	A	1626250	1620915	-0.33

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

nst : MET05
alnum : 56226997001
nits : ug/L

Date : 06-JUN-2006 15:29
X Axis : R

Reviewer: ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	f0615004	56226997004	CS1	06-JUN-2006 15:34	S3608
L2	f0615005	56226997005	CS2	06-JUN-2006 15:40	S3609
L3	f0615006	56226997006	CS3	06-JUN-2006 15:45	S3610
L4	f0615007	56226997007	CS4	06-JUN-2006 15:51	S3611
L5	f0615008	56226997008	CS5	06-JUN-2006 15:57	S3605
L6	f0615009	56226997009	CS6	06-JUN-2006 16:02	S3606

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
luminum		7.6362	3.5258	0.7139	0.4706	0.4560	BLNK	-8.4511	2.29061		2.5605	1.000	0.995	
ntimony	0.3053	0.2683	0.2543	0.2443	0.2427	0.2409	BLNK	-0.0380	4.14639		0.2593	1.000	0.995	
rsenic		0.4953	0.4649	0.4141	0.3941	0.3924	BLNK	-0.0822	2.54731		0.4322	1.000	0.995	
arium	0.1311	0.1046	0.1004	0.0905	0.0900	0.0897	BLNK	-0.0437	11.1455		0.1011	1.000	0.995	
eryllium	0.1502	0.1315	0.1226	0.1303	0.1272	0.1255	BLNK	-0.0184	7.94666		0.1312	1.000	0.995	
admium	0.7818	0.5995	0.5604	0.4817	0.4583	0.4424	BLNK	-0.1925	2.24641		0.5540	1.000	0.995	
alcium		0.0284	0.0216	0.0170	0.0177	0.0173	BLNK	-32.804	57.5858		0.0204	1.000	0.995	
hromium		6.4876	4.6058	3.0994	2.8492	2.9254	BLNK	-0.6865	0.34504		3.9935	1.000	0.995	
obalt	4.0164	3.3874	3.3993	3.1802	3.0136	3.1469	BLNK	-0.0385	0.32055		3.3573	1.000	0.995	
opper		1.1746	0.9956	0.7707	0.7089	0.7037	BLNK	-0.2378	1.42069		0.8707	1.000	0.995	
ron		0.1359	0.1065	0.0837	0.0845	0.0827	BLNK	-32.726	12.0620		0.0987	1.000	0.995	
ead	1.0682	0.9549	0.9379	0.8820	0.8773	0.8826	BLNK	-0.0356	1.13461		0.9338	1.000	0.995	
agnesium		0.0856	0.0716	0.0613	0.0612	0.0599	BLNK	-24.477	16.6440		0.0679	1.000	0.995	
anganese	6.3900	5.4228	4.8005	4.2146	3.9967	4.2762	BLNK	-0.1229	0.23713		4.8501	0.999	0.995	
olybdenum		1.0223	0.8891	0.8297	0.8132	0.8076	BLNK	-0.1624	1.23767		0.8724	1.000	0.995	
ickel	1.0833	0.9759	0.7781	0.6877	0.6377	0.6323	BLNK	-0.1793	1.58026		0.7992	1.000	0.995	
otassium		1.2794	0.8968	0.5953	0.5223	0.5159	BLNK	-74.277	1.94178		0.7619	1.000	0.995	
elenium		0.0640	0.0482	0.0357	0.0309	0.0298	BLNK	-0.2473	33.3214		0.0417	1.000	0.995	
ilver	2.4841	2.3724	2.1467	2.1738	2.0587	2.0161	BLNK	-0.0225	0.49392		2.2086	1.000	0.995	
odium		2.2045	1.3939	0.7297	0.6382	0.6288	BLNK	-133.98	1.59814		1.1190	1.000	0.995	
hallium		0.7260	0.6853	0.6088	0.6375	0.6874	BLNK	-0.0678	1.47708		0.6690	0.999	0.995	
anadium		4.5585	3.7487	3.2915	3.2144	3.5179	BLNK	-0.0688	0.28940		3.6662	0.998	0.995	
inc		2.6165	1.5353	0.5853	0.4682	0.4515	BLNK	-1.8588	2.22271		1.1314	1.000	0.995	

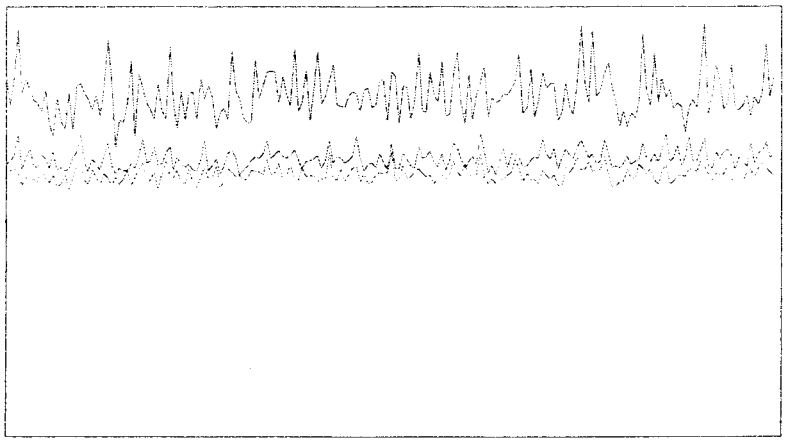
226

nstrument amount = a0 + response * a1 + response^2 * a2; BLNK=Y=aX+[blank]

56226997001

Tune Report

Tune File : Autotune.u



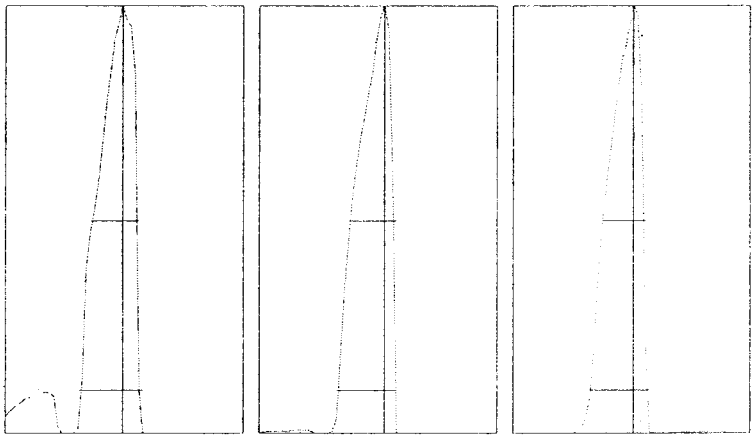
m/z:	7	89	205
Range:	10,000	20,000	20,000
Count:	8,356	13,109	12,125
Mean:	7960.9	12933.1	12163.3
RSD%:	6.72	3.40	2.86
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.39%
Doubly Charged:	70/140	2.68%

Background:

m/z:	7	89	205
Cps:	10.8	3.1	3.8



m/z:	7	89	205
Height:	7,810	14,024	12,754
Axis:	7.00	89.10	205.05
W-50%:	0.60	0.60	0.55
W-10%:	0.800	0.7500	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1320 W	Extract 1:	-140 V	AMU Gain:	131
RF Matching:	1.7 V	Extract 2:	-110 V	AMU Offset:	125
Smpl Depth:	7 mm	Einzel 1,3:	-161 V	Axis Gain:	0.9993
Torch-H:	0.1 mm	Einzel 2:	7 V	Axis Offset:	-0.06
Torch-V:	0.2 mm	Omega Bias:	-65 V	QP Bias:	1.6 V
Carrier Gas:	1.05 L/min	Omega (+):	0 V		
Makeup Gas:	0 L/min	Omega (-):	-5 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	6 V	Discriminator:	9.1 mV
PeriPump1:	0.1 rps	Plate Bias:	-5 V	Analog HV:	1790 V
PeriPump2:	--- rps			Pulse HV:	1450 V
S/C Temp:	2 degC				

Generated : Jun 06, 2006 12:53:16
Printed : Jun 06, 2006 12:53:22

P/A Factor Tuning Report

Acquired:Jun 6 2006 01:00 pm

Mass[amu]	Element	P/A Factor
6	Li	0.078329
9	Be	0.086098
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.101276
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.103861
45	Sc	0.099061
51	V	0.104008
52	Cr	0.105067
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.107003
57	Fe	0.107373
59	Co	0.108000
60	Ni	Sensitivity too low
63	Cu	0.107580
65	Cu	0.105262
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.103370
95	Mo	Sensitivity too low
98	Mo	0.104308
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.107211
111	Cd	Sensitivity too low
114	Cd	0.106388
115	In	0.106189
118	(In)	Sensitivity too high
121	Sb	0.108130
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.109268
166	Er	Sensitivity too low

205	Tl	0.111833
206	(Pb)	0.109992
207	(Pb)	0.109187
208	Pb	0.111359
209	Bi	0.108655

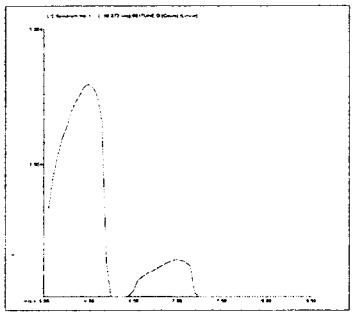
```
===Detector Parameters===
  Discriminator: 9.1 mV
      Analog HV: 1790 V
       Pulse HV: 1450 V
```

6020 QC Tune Report

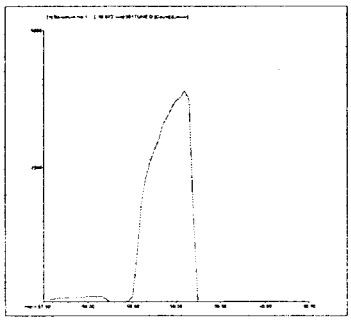
Data File: C:\ICPCHEM\1\DATA\06F0615a.B\001TUNE.D
Date Acquired: Jun 6 2006 03:17 pm
Acq. Method: TN6020.M
Operator:
Sample Name: tun,s3622
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

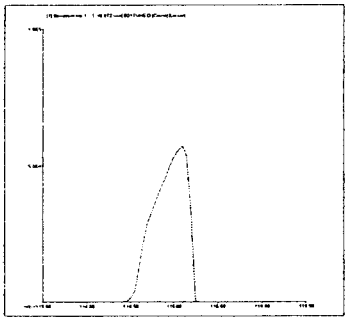
Element	Actual	Required	Flag
7 Li	2.73	5.00	
59 Co	2.41	5.00	
115 In	1.02	5.00	
205 Tl	1.72	5.00	



7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.10
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:



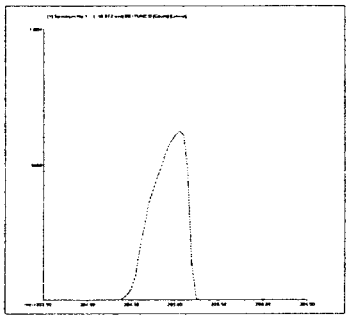
115 In

Mass Calib.

Actual:	115.10	
Required:	114.90 -	115.10
Flag:		

Peak Width

Actual:	0.60
Required:	0.90
Flag:	



205 Tl

Mass Calib.

Actual:	205.05	
Required:	204.90 -	205.10
Flag:		

Peak Width

Actual:	0.60
Required:	0.90
Flag:	

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06F0615a.B\003CAL
Date Acquired: Jun 6 2006 03:29 pm
Operator:
Sample Name: std-blk
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\602001
Last Cal Update: Jun 06 2006 02:05 pm
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	409002.19	P	4607.00	1.13
9	Be	18.89	P	10.72	56.75
23	Na	485072.19	P	27940.00	5.76
26	Mg	8508.89	P	463.30	5.44
27	Al	21338.89	P	565.90	2.65
39	K	221208.91	P	3249.00	1.47
44	Ca	3296.99	P	272.10	8.25
45	Sc	289166.69	P	5097.00	1.76
51	V	284.21	P	159.90	56.26
52	Cr	2376.67	P	70.95	2.99
55	Mn	618.89	P	6.94	1.12
57	Fe	3241.11	P	148.00	4.57
59	Co	143.33	P	29.06	20.27
60	Ni	135.56	P	1.93	1.42
65	Cu	199.96	P	20.82	10.41
66	Zn	998.89	P	80.58	8.07
72	Ge	59725.33	P	246.60	0.41
75	As	38.53	P	13.67	35.48
82	Se	8.89	P	10.21	114.86
95	Mo	156.67	P	14.53	9.27
109	Ag	54.44	P	22.19	40.76
111	Cd	102.32	P	14.70	14.37
115	In	466498.19	P	3710.00	0.80
121	Sb	85.56	P	11.71	13.69
137	Ba	36.67	P	12.02	32.78
205	Tl	443.33	P	57.83	13.04
208	Pb	303.33	P	8.82	2.91
209	Bi	483064.41	P	3198.00	0.66

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0615a.B\004CALI.D\004CALI.D#
Date Acquired: Jun 6 2006 03:34 pm
Operator:
Sample Name: cs1,s3608
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 06 2006 03:30 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	412888.91	P	7481.00	1.81
9 Be	310.00	P	17.64	5.69
23 Na	666589.31	A	26160.00	3.92
26 Mg	17904.44	P	319.60	1.79
27 Al	25855.55	P	1154.00	4.46
39 K	307690.00	P	2228.00	0.72
44 Ca	6351.88	P	365.20	5.75
45 Sc	295885.50	P	1688.00	0.57
51 V	1582.87	P	169.40	10.70
52 Cr	3402.22	P	108.80	3.20
55 Mn	1932.22	P	13.47	0.70
57 Fe	5941.11	P	210.00	3.53
59 Co	1214.44	P	53.58	4.41
60 Ni	327.78	P	30.97	9.45
65 Cu	512.14	P	29.12	5.69
66 Zn	1313.33	P	58.59	4.46
72 Ge	60478.44	P	691.20	1.14
75 As	135.40	P	87.25	64.44
82 Se	14.89	P	3.42	22.98
95 Mo	374.44	P	5.09	1.36
109 Ag	751.11	P	25.89	3.45
111 Cd	236.45	P	19.85	8.40
115 In	466077.91	P	4899.00	1.05
121 Sb	711.11	P	38.35	5.39
137 Ba	305.56	P	19.53	6.39
205 Tl	1962.22	P	136.70	6.97
208 Pb	2574.44	P	50.59	1.97
209 Bi	482033.31	P	2527.00	0.52

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	412888.88	1.81	409002.19	101.0	80 - 120	

45	Sc	295885.53	0.57	289166.66	102.3	80 -	120
72	Ge	60478.44	1.14	59725.33	101.3	80 -	120
115	In	466077.91	1.05	466498.22	99.9	80 -	120
209	Bi	482033.31	0.52	483064.41	99.8	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0615a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0615a.B\005CALI.D\005CALI.D#
Date Acquired: Jun 6 2006 03:40 pm
Operator:
Sample Name: cs2,s3609
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 06 2006 03:36 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	411613.31	P	4688.00	1.14
9	Be	541.11	P	58.72	10.85
23	Na	645040.88	M	41810.00	6.48
26	Mg	25068.89	P	237.00	0.95
27	Al	22353.33	P	190.10	0.85
39	K	374541.09	P	1114.00	0.30
44	Ca	8322.62	P	146.90	1.77
45	Sc	292792.19	P	4191.00	1.43
51	V	2719.43	P	284.10	10.45
52	Cr	3871.11	P	218.20	5.64
55	Mn	3235.55	P	78.62	2.43
57	Fe	8107.78	P	147.50	1.82
59	Co	2021.11	P	131.10	6.49
60	Ni	582.22	P	9.62	1.65
65	Cu	701.00	P	90.76	12.95
66	Zn	1561.11	P	41.94	2.69
72	Ge	59664.89	P	180.00	0.30
75	As	295.50	P	20.78	7.03
82	Se	38.22	P	12.39	32.42
95	Mo	610.00	P	23.09	3.79
109	Ag	1415.56	P	53.47	3.78
111	Cd	357.74	P	41.03	11.47
115	In	464054.00	P	3955.00	0.85
121	Sb	1245.56	P	85.27	6.85
137	Ba	485.56	P	51.24	10.55
205	Tl	3482.22	P	165.60	4.76
208	Pb	4578.89	P	64.06	1.40
209	Bi	479520.00	P	3844.00	0.80

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	411613.31	1.14	409002.19	100.6	80 - 120	

45	Sc	292792.19	1.43	289166.66	101.3	80 -	120
72	Ge	59664.89	0.30	59725.33	99.9	80 -	120
115	In	464054.00	0.85	466498.22	99.5	80 -	120
209	Bi	479519.97	0.80	483064.41	99.3	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0615a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0615a.B\006CALI.D\006CALI.D#
Date Acquired: Jun 6 2006 03:45 pm
Operator:
Sample Name: cs3,s3610
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 06 2006 03:41 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	403427.81	P	10870.00	2.69
9 Be	990.00	P	66.92	6.76
23 Na	792911.38	A	20380.00	2.57
26 Mg	40754.44	P	843.90	2.07
27 Al	20062.22	P	938.60	4.68
39 K	510123.31	P	7960.00	1.56
44 Ca	12269.26	P	199.80	1.63
45 Sc	284417.81	P	4059.00	1.43
51 V	4395.13	P	155.40	3.54
52 Cr	5400.00	P	228.20	4.23
55 Mn	5627.78	P	100.10	1.78
57 Fe	12484.44	P	247.70	1.98
59 Co	3984.44	P	163.70	4.11
60 Ni	912.22	P	63.63	6.98
65 Cu	1167.60	P	122.20	10.47
66 Zn	1800.00	P	72.19	4.01
72 Ge	58615.78	P	334.10	0.57
75 As	545.09	P	27.99	5.13
82 Se	56.44	P	4.91	8.71
95 Mo	1042.22	P	35.95	3.45
109 Ag	2516.67	P	42.56	1.69
111 Cd	657.05	P	20.95	3.19
115 In	461024.31	P	2862.00	0.62
121 Sb	2344.44	P	59.29	2.53
137 Ba	925.56	P	57.38	6.20
205 Tl	6483.33	P	78.10	1.20
208 Pb	8873.33	P	208.00	2.34
209 Bi	473013.31	P	1865.00	0.39

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	403427.78	2.69	409002.19	98.6	80 - 120	

45 Sc	284417.78	1.43	289166.66	98.4	80 -	120
72 Ge	58615.78	0.57	59725.33	98.1	80 -	120
115 In	461024.31	0.62	466498.22	98.8	80 -	120
209 Bi	473013.31	0.39	483064.41	97.9	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0615a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0615a.B\007CALI.D\007CALI.D#
Date Acquired: Jun 6 2006 03:51 pm
Operator:
Sample Name: cs4,s3611
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 06 2006 03:47 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	398507.81	P	7827.00	1.96
9	Be	10381.11	P	200.90	1.94
23	Na	4182560.00	A	43670.00	1.04
26	Mg	351328.91	P	3248.00	0.92
27	Al	40926.67	P	487.90	1.19
39	K	3412222.00	A	19880.00	0.58
44	Ca	97687.39	P	684.70	0.70
45	Sc	286646.69	P	4233.00	1.48
51	V	38822.82	P	1386.00	3.57
52	Cr	36560.00	P	1032.00	2.82
55	Mn	49715.55	P	625.30	1.26
57	Fe	98780.00	P	1789.00	1.81
59	Co	37511.11	P	221.90	0.59
60	Ni	8112.22	P	42.21	0.52
65	Cu	9090.67	P	183.90	2.02
66	Zn	6902.22	P	318.90	4.62
72	Ge	58980.44	P	463.30	0.79
75	As	4883.89	P	51.29	1.05
82	Se	420.67	P	17.33	4.12
95	Mo	9785.55	P	200.00	2.04
109	Ag	25638.89	P	357.80	1.40
111	Cd	5681.93	P	170.20	3.00
115	In	458264.59	P	2909.00	0.63
121	Sb	22387.78	P	442.70	1.98
137	Ba	8295.55	P	231.40	2.79
205	Tl	57895.55	P	1285.00	2.22
208	Pb	83871.11	P	1152.00	1.37
209	Bi	475452.19	P	5508.00	1.16

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	398507.78	1.96	409002.19	97.4	80 - 120	

45	Sc	286646.66	1.48	289166.66	99.1	80 -	120
72	Ge	58980.44	0.79	59725.33	98.8	80 -	120
115	In	458264.56	0.63	466498.22	98.2	80 -	120
209	Bi	475452.22	1.16	483064.41	98.4	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0615a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0615a.B\008CALI.D\008CALI.D#
Date Acquired: Jun 6 2006 03:57 pm
Operator:
Sample Name: cs5,s3605
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 06 2006 03:53 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	385058.91	P	2281.00	0.59
9	Be	97933.33	P	1094.00	1.12
23	Na	36390728.00	A	621600.00	1.71
26	Mg	3492115.00	A	14310.00	0.41
27	Al	268315.50	P	1110.00	0.41
39	K	29777860.00	A	216900.00	0.73
44	Ca	1010775.00	A	5223.00	0.52
45	Sc	285095.50	P	3228.00	1.13
51	V	380930.19	P	3582.00	0.94
52	Cr	337665.50	P	3542.00	1.05
55	Mn	473646.59	P	2648.00	0.56
57	Fe	1001470.00	A	778.30	0.08
59	Co	357128.91	P	2412.00	0.68
60	Ni	75572.22	P	432.30	0.57
65	Cu	84013.21	P	829.90	0.99
66	Zn	55488.88	P	415.00	0.75
72	Ge	59254.89	P	450.00	0.76
75	As	46710.13	P	397.80	0.85
82	Se	3662.67	P	46.14	1.26
95	Mo	96367.78	P	495.80	0.51
109	Ag	243974.41	P	2328.00	0.95
111	Cd	54311.69	P	620.30	1.14
115	In	451852.59	P	5719.00	1.27
121	Sb	219330.00	P	2963.00	1.35
137	Ba	81355.55	P	996.80	1.23
205	Tl	595556.63	P	8558.00	1.44
208	Pb	819648.88	P	15650.00	1.91
209	Bi	467106.59	P	2867.00	0.61

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	385058.88	0.59	409002.19	94.1	80 - 120	

45	Sc	285095.53	1.13	289166.66	98.6	80 -	120
72	Ge	59254.89	0.76	59725.33	99.2	80 -	120
115	In	451852.59	1.27	466498.22	96.9	80 -	120
209	Bi	467106.66	0.61	483064.41	96.7	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0615a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0615a.B\009CALI.D\009CALI.D#
Date Acquired: Jun 6 2006 04:02 pm
Operator:
Sample Name: cs6,s3606
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 06 2006 03:58 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	403254.41	P	6971.00	1.73
9	Be	202491.09	P	6823.00	3.37
23	Na	74624944.00	A	1968000.00	2.64
26	Mg	7106246.00	A	10760.00	0.15
27	Al	541074.38	P	11260.00	2.08
39	K	61216912.00	A	899000.00	1.47
44	Ca	2055187.00	A	36220.00	1.76
45	Sc	296670.00	P	6285.00	2.12
51	V	849563.00	A	23080.00	2.72
52	Cr	706780.81	M	42840.00	6.06
55	Mn	1032569.00	A	20140.00	1.95
57	Fe	1997270.00	A	46800.00	2.34
59	Co	760088.38	M	43380.00	5.71
60	Ni	152671.09	P	3180.00	2.08
65	Cu	169938.41	P	4662.00	2.74
66	Zn	109000.00	P	1308.00	1.20
72	Ge	60368.00	P	1212.00	2.01
75	As	94741.65	P	1903.00	2.01
82	Se	7200.67	P	58.27	0.81
95	Mo	194998.91	P	2760.00	1.42
109	Ag	486751.09	P	6746.00	1.39
111	Cd	106824.50	P	1954.00	1.83
115	In	457725.09	P	5162.00	1.13
121	Sb	440993.31	P	6859.00	1.56
137	Ba	164200.00	P	3981.00	2.42
205	Tl	1276271.00	A	3314.00	0.26
208	Pb	1638749.00	P	15580.00	0.95
209	Bi	464207.69	P	6876.00	1.48

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	403254.44	1.73	409002.19	98.6	80 - 120	

45	Sc	296670.00	2.12	289166.66	102.6	80 -	120
72	Ge	60368.00	2.01	59725.33	101.1	80 -	120
115	In	457725.13	1.13	466498.22	98.1	80 -	120
209	Bi	464207.75	1.48	483064.41	96.1	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0615a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Summary

Calibration : C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Calib: Jun 06, 2006 16:04
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\06f0615a.b\003calb.d\	003calb.d#	Jun 6 2006 03:29 pm
2	...hem\1\data\06f0615a.b\004cali.d\	004cali.d#	Jun 6 2006 03:34 pm
3	...hem\1\data\06f0615a.b\005cali.d\	005cali.d#	Jun 6 2006 03:40 pm
4	...hem\1\data\06f0615a.b\006cali.d\	006cali.d#	Jun 6 2006 03:45 pm
5	...hem\1\data\06f0615a.b\007cali.d\	007cali.d#	Jun 6 2006 03:51 pm
6	...hem\1\data\06f0615a.b\008cali.d\	008cali.d#	Jun 6 2006 03:57 pm
7	...hem\1\data\06f0615a.b\009cali.d\	009cali.d#	Jun 6 2006 04:02 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	Excluded	---	ppb
Be	9	6	Y = 1.258E-1*X +2.311E-3(blank)	---	ppb
Na	23	45	Y = 6.257E-1*X +8.383E+1(blank)	---	ppb
Mg	25	45	Excluded	---	ppb
Mg	26	45	Y = 6.008E-2*X +1.471E+0(blank)	---	ppb
Al	27	45	Y = 4.366E-1*X +3.689E+0(blank)	---	ppb
K	39	45	Y = 5.150E-1*X +3.825E+1(blank)	---	ppb
Ca	43	45	Excluded	---	ppb
Ca	44	45	Y = 1.737E-2*X +5.697E-1(blank)	---	ppb
Sc	45	---	Excluded	---	ppb
V	51	72	Y = 3.455E+0*X +2.377E-1(blank)	---	ppb
Cr	52	72	Y = 2.898E+0*X +1.990E+0(blank)	---	ppb
Cr	53	72	Excluded	---	ppb
Fe	54	72	Excluded	---	ppb
Mn	55	72	Y = 4.217E+0*X +5.181E-1(blank)	---	ppb
Fe	57	72	Y = 8.290E-2*X +2.713E+0(blank)	---	ppb
Co	59	72	Y = 3.120E+0*X +1.200E-1(blank)	---	ppb
Ni	60	72	Y = 6.328E-1*X +1.135E-1(blank)	---	ppb
Cu	63	72	Excluded	---	ppb
Cu	65	72	Y = 7.039E-1*X +1.674E-1(blank)	---	ppb
Zn	66	72	Y = 4.499E-1*X +8.363E-1(blank)	---	ppb
Ge	72	---	Excluded	---	ppb
As	75	72	Y = 3.926E-1*X +3.229E-2(blank)	---	ppb
(As)	77	72	Excluded	---	ppb
Se	82	72	Y = 3.001E-2*X +7.420E-3(blank)	---	ppb
(As)	83	72	Excluded	---	ppb
(Ca)	88	72	Excluded	---	ppb
Y	89	72	Excluded	---	ppb
Mo	95	72	Y = 8.080E-1*X +1.312E-1(blank)	---	ppb
Mo	98	72	Excluded	---	ppb
(Mo)	99	72	Excluded	---	ppb
(Cd)	106	72	Excluded	---	ppb
(Cd)	108	72	Excluded	---	ppb
Ag	109	72	Y = 2.025E+0*X +4.562E-2(blank)	---	ppb
Cd	111	72	Y = 4.452E-1*X +8.569E-2(blank)	---	ppb
Cd	114	72	Excluded	---	ppb
In	115	---	Excluded	---	ppb
(In)	118	---	Excluded	---	ppb
Sb	121	115	Y = 2.412E-1*X +9.169E-3(blank)	---	ppb
Ba	135	115	Excluded	---	ppb
Ba	137	115	Y = 8.972E-2*X +3.924E-3(blank)	---	ppb
Tb	159	---	Excluded	---	ppb
Er	166	115	Excluded	---	ppb
Tl	205	209	Y = 6.770E-1*X +4.589E-2(blank)	---	ppb
(Pb)	206	209	Excluded	---	ppb
(Pb)	207	209	Excluded	---	ppb
Pb	208	209	Y = 8.814E-1*X +3.140E-2(blank)	---	ppb
Bi	209	---	Excluded	---	ppb
Th	232	209	--------	---	ppb
U	238	209	--------	---	ppb

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05
Seqnum : 56226997010
Cal : 56226997001
Standards: S3601

File : f0615010
Caldate: 06-JUN-2006

IDF : 1.0
Time : 06-JUN-2006 16:08

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	2.5605	0.4837	100.0	102.3	ug/L	2	10	
Antimony	0.2593	0.2385	100.0	98.86	ug/L	-1	10	
Arsenic	0.4322	0.3949	100.0	100.5	ug/L	1	10	
Barium	0.1011	0.0885	100.0	98.56	ug/L	-1	10	
Beryllium	0.1312	0.1264	100.0	100.4	ug/L	0	10	
Cadmium	0.5540	0.4504	100.0	101.0	ug/L	1	10	
Calcium	0.0204	0.0176	10000	10120	ug/L	1	10	
Chromium	3.9935	2.8573	100.0	97.90	ug/L	-2	10	
Cobalt	3.3573	3.0193	100.0	96.74	ug/L	-3	10	
Copper	0.8707	0.7116	100.0	100.9	ug/L	1	10	
Iron	0.0987	0.0838	10000	10080	ug/L	1	10	
Lead	0.9338	0.8734	100.0	99.06	ug/L	-1	10	
Magnesium	0.0679	0.0628	10000	10430	ug/L	4	10	
Manganese	4.8501	3.9427	100.0	93.37	ug/L	-7	10	
Molybdenum	0.8724	0.7953	100.0	98.27	ug/L	-2	10	
Nickel	0.7992	0.6269	100.0	98.89	ug/L	-1	10	
Potassium	0.7619	0.5267	10000	10150	ug/L	2	10	
Selenium	0.0417	0.0303	100.0	100.7	ug/L	1	10	
Silver	2.2086	2.0304	100.0	100.3	ug/L	0	10	
Sodium	1.1190	0.6435	10000	10150	ug/L	2	10	
Thallium	0.6690	0.6273	50.00	46.26	ug/L	-7	10	
Vanadium	3.6662	3.2166	100.0	93.02	ug/L	-7	10	
Zinc	1.1314	0.4653	100.0	101.6	ug/L	2	10	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	405462	-0.87
Scandium	289167	293560	1.52
Germanium	59725	61104	2.31
Indium	466498	460452	-1.30
Bismuth	483064	474326	-1.81

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56226997026 File : f0615026
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3602, S3310

IDF : 1.0
Time : 06-JUN-2006 17:38

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.5605	0.5026	100.0	106.7	ug/L	7	10	
Antimony	0.2593	0.2424	100.0	100.5	ug/L	1	10	
Arsenic	0.4322	0.3970	100.0	101.1	ug/L	1	10	
Barium	0.1011	0.0904	100.0	100.7	ug/L	1	10	
Beryllium	0.1312	0.1270	100.0	100.9	ug/L	1	10	
Cadmium	0.5540	0.4515	100.0	101.2	ug/L	1	10	
Calcium	0.0204	0.0180	10000	10330	ug/L	3	10	
Chromium	3.9935	2.8693	100.0	98.32	ug/L	-2	10	
Cobalt	3.3573	3.0439	100.0	97.53	ug/L	-2	10	
Copper	0.8707	0.7123	100.0	101.0	ug/L	1	10	
Iron	0.0987	0.0847	10000	10180	ug/L	2	10	
Lead	0.9338	0.8806	100.0	99.87	ug/L	0	10	
Magnesium	0.0679	0.0627	10000	10410	ug/L	4	10	
Manganese	4.8501	4.0135	100.0	95.05	ug/L	-5	10	
Molybdenum	0.8724	0.8113	100.0	100.2	ug/L	0	10	
Nickel	0.7992	0.6350	100.0	100.2	ug/L	0	10	
Potassium	0.7619	0.5294	10000	10210	ug/L	2	10	
Selenium	0.0417	0.0310	100.0	102.9	ug/L	3	10	
Silver	2.2086	2.0480	100.0	101.1	ug/L	1	10	
Sodium	1.1190	0.6524	10000	10290	ug/L	3	10	
Thallium	0.6690	0.6213	50.00	45.81	ug/L	-8	10	
Vanadium	3.6662	3.1885	100.0	92.20	ug/L	-8	10	
Zinc	1.1314	0.4635	100.0	101.2	ug/L	1	10	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	384100	-6.09
Scandium	289167	277360	-4.08
Germanium	59725	58969	-1.27
Indium	466498	441948	-5.26
Bismuth	483064	455501	-5.71

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56226997037 File : f0615037
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3621, S3310

IDF : 1.0
Time : 06-JUN-2006 18:48

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.5605	0.4652	150.0	151.4	ug/L	1	10	
Antimony	0.2593	0.2313	150.0	143.8	ug/L	-4	10	
Arsenic	0.4322	0.3790	150.0	144.7	ug/L	-4	10	
Barium	0.1011	0.0872	150.0	145.7	ug/L	-3	10	
Beryllium	0.1312	0.1208	150.0	143.9	ug/L	-4	10	
Cadmium	0.5540	0.4117	150.0	138.5	ug/L	-8	10	
Calcium	0.0204	0.0169	15000	14550	ug/L	-3	10	
Chromium	3.9935	2.7991	150.0	144.2	ug/L	-4	10	
Cobalt	3.3573	2.9667	150.0	142.6	ug/L	-5	10	
Copper	0.8707	0.7046	150.0	149.9	ug/L	0	10	
Iron	0.0987	0.0822	15000	14840	ug/L	-1	10	
Lead	0.9338	0.8421	150.0	143.3	ug/L	-4	10	
Magnesium	0.0679	0.0602	15000	15020	ug/L	0	10	
Manganese	4.8501	4.0865	150.0	145.2	ug/L	-3	10	
Molybdenum	0.8724	0.7623	150.0	141.4	ug/L	-6	10	
Nickel	0.7992	0.6257	150.0	148.1	ug/L	-1	10	
Potassium	0.7619	0.5036	15000	14590	ug/L	-3	10	
Selenium	0.0417	0.0289	150.0	144.4	ug/L	-4	10	
Silver	2.2086	1.8975	150.0	140.6	ug/L	-6	10	
Sodium	1.1190	0.6295	15000	14960	ug/L	0	10	
Thallium	0.6690	0.6204	150.0	137.4	ug/L	-8	10	
Vanadium	3.6662	3.1971	150.0	138.7	ug/L	-8	10	
Zinc	1.1314	0.4409	150.0	145.1	ug/L	-3	10	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	427199	4.45
Scandium	289167	307673	6.40
Germanium	59725	63320	6.02
Indium	466498	459278	-1.55
Bismuth	483064	461141	-4.54

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997053 File : f0615053 Time : 06-JUN-2006 20:22
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3621, S3310

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.5605	0.5050	150.0	165.1	ug/L	10	10	
Antimony	0.2593	0.2373	150.0	147.5	ug/L	-2	10	
Arsenic	0.4322	0.3896	150.0	148.8	ug/L	-1	10	
Barium	0.1011	0.0902	150.0	150.8	ug/L	1	10	
Beryllium	0.1312	0.1259	150.0	150.0	ug/L	0	10	
Cadmium	0.5540	0.4143	150.0	139.4	ug/L	-7	10	
Calcium	0.0204	0.0175	15000	15060	ug/L	0	10	
Chromium	3.9935	2.9220	150.0	150.5	ug/L	0	10	
Cobalt	3.3573	3.1109	150.0	149.5	ug/L	0	10	
Copper	0.8707	0.7225	150.0	153.7	ug/L	2	10	
Iron	0.0987	0.0860	15000	15530	ug/L	4	10	
Lead	0.9338	0.8555	150.0	145.6	ug/L	-3	10	
Magnesium	0.0679	0.0658	15000	16410	ug/L	9	10	
Manganese	4.8501	4.3617	150.0	155.0	ug/L	3	10	
Molybdenum	0.8724	0.7717	150.0	143.1	ug/L	-5	10	
Nickel	0.7992	0.6527	150.0	154.5	ug/L	3	10	
Potassium	0.7619	0.5258	15000	15240	ug/L	2	10	
Selenium	0.0417	0.0296	150.0	147.5	ug/L	-2	10	
Silver	2.2086	1.8877	150.0	139.8	ug/L	-7	10	
Sodium	1.1190	0.6816	15000	16210	ug/L	8	10	
Thallium	0.6690	0.6433	150.0	142.5	ug/L	-5	10	
Vanadium	3.6662	3.3204	150.0	144.1	ug/L	-4	10	
Zinc	1.1314	0.4590	150.0	151.2	ug/L	1	10	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	444276	8.62
Scandium	289167	310377	7.33
Germanium	59725	62882	5.29
Indium	466498	446223	-4.35
Bismuth	483064	448979	-7.06

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56226997068 File : f0615068
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3621, S3310

IDF : 1.0
Time : 06-JUN-2006 21:46

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.5605	0.4819	150.0	157.1	ug/L	5	10	
Antimony	0.2593	0.2368	150.0	147.2	ug/L	-2	10	
Arsenic	0.4322	0.3832	150.0	146.3	ug/L	-2	10	
Barium	0.1011	0.0897	150.0	150.0	ug/L	0	10	
Beryllium	0.1312	0.1258	150.0	149.9	ug/L	0	10	
Cadmium	0.5540	0.4173	150.0	140.4	ug/L	-6	10	
Calcium	0.0204	0.0173	15000	14880	ug/L	-1	10	
Chromium	3.9935	2.9161	150.0	150.2	ug/L	0	10	
Cobalt	3.3573	3.0631	150.0	147.2	ug/L	-2	10	
Copper	0.8707	0.7107	150.0	151.2	ug/L	1	10	
Iron	0.0987	0.0859	15000	15510	ug/L	3	10	
Lead	0.9338	0.8473	150.0	144.2	ug/L	-4	10	
Magnesium	0.0679	0.0640	15000	15960	ug/L	6	10	
Manganese	4.8501	4.1414	150.0	147.2	ug/L	-2	10	
Molybdenum	0.8724	0.7737	150.0	143.5	ug/L	-4	10	
Nickel	0.7992	0.6444	150.0	152.6	ug/L	2	10	
Potassium	0.7619	0.5170	15000	14990	ug/L	0	10	
Selenium	0.0417	0.0292	150.0	145.5	ug/L	-3	10	
Silver	2.2086	1.9154	150.0	141.9	ug/L	-5	10	
Sodium	1.1190	0.6764	15000	16080	ug/L	7	10	
Thallium	0.6690	0.6195	150.0	137.2	ug/L	-9	10	
Vanadium	3.6662	3.3179	150.0	144.0	ug/L	-4	10	
Zinc	1.1314	0.4564	150.0	150.3	ug/L	0	10	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	423136	3.46
Scandium	289167	300524	3.93
Germanium	59725	60098	0.62
Indium	466498	430691	-7.68
Bismuth	483064	435798	-9.78

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997080 File : f0615080 Time : 06-JUN-2006 22:53
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3621, S3310

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.5605	0.5349	150.0	175.3	ug/L	17	10	c+ ***
Antimony	0.2593	0.2365	150.0	147.1	ug/L	-2	10	
Arsenic	0.4322	0.3859	150.0	147.4	ug/L	-2	10	
Barium	0.1011	0.0891	150.0	149.0	ug/L	-1	10	
Beryllium	0.1312	0.1321	150.0	157.4	ug/L	5	10	
Cadmium	0.5540	0.3966	150.0	133.5	ug/L	-11	10	c- ***
Calcium	0.0204	0.0174	15000	14960	ug/L	0	10	
Chromium	3.9935	2.9557	150.0	152.3	ug/L	2	10	
Cobalt	3.3573	3.1474	150.0	151.3	ug/L	1	10	
Copper	0.8707	0.7251	150.0	154.3	ug/L	3	10	
Iron	0.0987	0.0868	15000	15670	ug/L	4	10	
Lead	0.9338	0.8443	150.0	143.7	ug/L	-4	10	
Magnesium	0.0679	0.0680	15000	16950	ug/L	13	10	c+ ***
Manganese	4.8501	4.2850	150.0	152.3	ug/L	2	10	
Molybdenum	0.8724	0.7472	150.0	138.5	ug/L	-8	10	
Nickel	0.7992	0.6641	150.0	157.2	ug/L	5	10	
Potassium	0.7619	0.5230	15000	15160	ug/L	1	10	
Selenium	0.0417	0.0287	150.0	143.1	ug/L	-5	10	
Silver	2.2086	1.8249	150.0	135.2	ug/L	-10	10	
Sodium	1.1190	0.7151	15000	17010	ug/L	13	10	c+ ***
Thallium	0.6690	0.6180	150.0	136.9	ug/L	-9	10	
Vanadium	3.6662	3.3503	150.0	145.4	ug/L	-3	10	
Zinc	1.1314	0.4567	150.0	150.4	ug/L	0	10	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	438729	7.27
Scandium	289167	307478	6.33
Germanium	59725	61802	3.48
Indium	466498	419369	-10.10
Bismuth	483064	419288	-13.20

=high bias -=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997097 File : f0615097 Time : 07-JUN-2006 00:28
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3621, S3310

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.5605	0.4975	150.0	162.5	ug/L	8	10	
Antimony	0.2593	0.2372	150.0	147.5	ug/L	-2	10	
Arsenic	0.4322	0.3826	150.0	146.1	ug/L	-3	10	
Barium	0.1011	0.0892	150.0	149.0	ug/L	-1	10	
Beryllium	0.1312	0.1281	150.0	152.7	ug/L	2	10	
Cadmium	0.5540	0.3990	150.0	134.3	ug/L	-10	10	
Calcium	0.0204	0.0175	15000	15110	ug/L	1	10	
Chromium	3.9935	2.8823	150.0	148.5	ug/L	-1	10	
Cobalt	3.3573	3.0311	150.0	145.7	ug/L	-3	10	
Copper	0.8707	0.7180	150.0	152.8	ug/L	2	10	
Iron	0.0987	0.0847	15000	15280	ug/L	2	10	
Lead	0.9338	0.8360	150.0	142.2	ug/L	-5	10	
Magnesium	0.0679	0.0677	15000	16870	ug/L	12	10	c+ ***
Manganese	4.8501	3.9688	150.0	141.0	ug/L	-6	10	
Molybdenum	0.8724	0.7517	150.0	139.4	ug/L	-7	10	
Nickel	0.7992	0.6361	150.0	150.6	ug/L	0	10	
Potassium	0.7619	0.5341	15000	15480	ug/L	3	10	
Selenium	0.0417	0.0289	150.0	144.3	ug/L	-4	10	
Silver	2.2086	1.8577	150.0	137.6	ug/L	-8	10	
Sodium	1.1190	0.6944	15000	16510	ug/L	10	10	
Thallium	0.6690	0.6113	150.0	135.4	ug/L	-10	10	
Vanadium	3.6662	3.2597	150.0	141.4	ug/L	-6	10	
Zinc	1.1314	0.4574	150.0	150.6	ug/L	0	10	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	383973	-6.12
Scandium	289167	268938	-7.00
Germanium	59725	54816	-8.22
Indium	466498	376955	-19.19
Bismuth	483064	383230	-20.67

=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997112 File : f0615112 Time : 07-JUN-2006 01:52
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3621, S3310

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.5605	0.5021	150.0	164.1	ug/L	9	10	
Antimony	0.2593	0.2370	150.0	147.4	ug/L	-2	10	
Arsenic	0.4322	0.3789	150.0	144.7	ug/L	-4	10	
Barium	0.1011	0.0892	150.0	149.1	ug/L	-1	10	
Beryllium	0.1312	0.1286	150.0	153.3	ug/L	2	10	
Cadmium	0.5540	0.3948	150.0	132.8	ug/L	-11	10	c- ***
Calcium	0.0204	0.0175	15000	15110	ug/L	1	10	
Chromium	3.9935	2.9108	150.0	150.0	ug/L	0	10	
Cobalt	3.3573	3.0492	150.0	146.6	ug/L	-2	10	
Copper	0.8707	0.7072	150.0	150.5	ug/L	0	10	
Iron	0.0987	0.0844	15000	15240	ug/L	2	10	
Lead	0.9338	0.8353	150.0	142.1	ug/L	-5	10	
Magnesium	0.0679	0.0665	15000	16570	ug/L	10	10	
Manganese	4.8501	3.9761	150.0	141.3	ug/L	-6	10	
Molybdenum	0.8724	0.7511	150.0	139.3	ug/L	-7	10	
Nickel	0.7992	0.6421	150.0	152.0	ug/L	1	10	
Potassium	0.7619	0.5404	15000	15670	ug/L	4	10	
Selenium	0.0417	0.0286	150.0	142.6	ug/L	-5	10	
Silver	2.2086	1.8283	150.0	135.4	ug/L	-10	10	
Sodium	1.1190	0.6880	15000	16360	ug/L	9	10	
Thallium	0.6690	0.6117	150.0	135.5	ug/L	-10	10	
Vanadium	3.6662	3.2930	150.0	142.9	ug/L	-5	10	
Zinc	1.1314	0.4512	150.0	148.6	ug/L	-1	10	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	369084	-9.76
Scandium	289167	261829	-9.45
Germanium	59725	53130	-11.04
Indium	466498	360394	-22.74
Bismuth	483064	355399	-26.43

=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997121 File : f0615121 Time : 07-JUN-2006 02:43
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3621, S3310

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	2.5605	0.4901	150.0	159.9	ug/L	7	10	
Antimony	0.2593	0.2347	150.0	145.9	ug/L	-3	10	
Arsenic	0.4322	0.3755	150.0	143.4	ug/L	-4	10	
Barium	0.1011	0.0884	150.0	147.7	ug/L	-2	10	
Beryllium	0.1312	0.1284	150.0	153.0	ug/L	2	10	
Cadmium	0.5540	0.3897	150.0	131.1	ug/L	-13	10	c- ***
Calcium	0.0204	0.0175	15000	15090	ug/L	1	10	
Chromium	3.9935	2.8893	150.0	148.9	ug/L	-1	10	
Cobalt	3.3573	3.0268	150.0	145.5	ug/L	-3	10	
Copper	0.8707	0.7083	150.0	150.7	ug/L	0	10	
Iron	0.0987	0.0844	15000	15240	ug/L	2	10	
Lead	0.9338	0.8291	150.0	141.1	ug/L	-6	10	
Magnesium	0.0679	0.0664	15000	16560	ug/L	10	10	
Manganese	4.8501	3.9474	150.0	140.3	ug/L	-6	10	
Molybdenum	0.8724	0.7414	150.0	137.5	ug/L	-8	10	
Nickel	0.7992	0.6473	150.0	153.2	ug/L	2	10	
Potassium	0.7619	0.5302	15000	15370	ug/L	2	10	
Selenium	0.0417	0.0282	150.0	140.6	ug/L	-6	10	
Silver	2.2086	1.8088	150.0	134.0	ug/L	-11	10	c- ***
Sodium	1.1190	0.6917	15000	16450	ug/L	10	10	
Thallium	0.6690	0.6045	150.0	133.9	ug/L	-11	10	c- ***
Vanadium	3.6662	3.2874	150.0	142.6	ug/L	-5	10	
Zinc	1.1314	0.4462	150.0	146.9	ug/L	-2	10	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	382792	-6.41
Scandium	289167	269839	-6.68
Germanium	59725	54671	-8.46
Indium	466498	370146	-20.65
Bismuth	483064	361298	-25.21

=low bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997013 File : f0615013 Time : 06-JUN-2006 16:25
Cal : 56226997001 Caldate: 06-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2693]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2386]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	405030	-0.97
Scandium	289167	290944	0.61
Germanium	59725	59491	-0.39
Indium	466498	466354	-0.03
Bismuth	483064	479114	-0.82

=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56226997029 File : f0615029
Cal : 56226997001 Caldate: 06-JUN-2006
IDF : 1.0
Time : 06-JUN-2006 17:55

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	[0.09908]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.006421]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.04606]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.3233]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1018]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	391597	-4.26
Scandium	289167	284453	-1.63
Germanium	59725	59742	0.03
Indium	466498	456195	-2.21
Bismuth	483064	471452	-2.40

=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997039 File : f0615039 Time : 06-JUN-2006 19:04
Cal : 56226997001 Caldate: 06-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2136]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	430212	5.19
Scandium	289167	301447	4.25
Germanium	59725	61676	3.27
Indium	466498	453145	-2.86
Bismuth	483064	455232	-5.76

=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997056 File : f0615056 Time : 06-JUN-2006 20:39
Cal : 56226997001 Caldate: 06-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.1666]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.3821]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1377]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	460363	12.56
Scandium	289167	310703	7.45
Germanium	59725	62428	4.53
Indium	466498	449303	-3.69
Bismuth	483064	447419	-7.38

=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997070 File : f0615070 Time : 06-JUN-2006 21:57
Cal : 56226997001 Caldate: 06-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	[0.04637]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	[0.03154]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.02024]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.01066]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.009531]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.1656]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.02060]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2336]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	422919	3.40
Scandium	289167	296271	2.46
Germanium	59725	59815	0.15
Indium	466498	436500	-6.43
Bismuth	483064	431133	-10.75

=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997082 File : f0615082 Time : 06-JUN-2006 23:04
Cal : 56226997001 Caldate: 06-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	[0.04740]	0.2500	0.03394	ug/L	!ib
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	[0.02410]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.02309]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.01294]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.02732]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	[0.1123]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.01865]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2313]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	458286	12.05
Scandium	289167	311790	7.82
Germanium	59725	61314	2.66
Indium	466498	428779	-8.09
Bismuth	483064	421616	-12.72

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997100 File : f0615100 Time : 07-JUN-2006 00:45
Cal : 56226997001 Caldate: 06-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	[0.2198]	0.5000	0.1891	ug/L	!ib
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1683]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	399070	-2.43
Scandium	289167	274403	-5.11
Germanium	59725	54752	-8.33
Indium	466498	385914	-17.27
Bismuth	483064	380916	-21.15

=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997114 File : f0615114 Time : 07-JUN-2006 02:04
Cal : 56226997001 Caldate: 06-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	[0.04644]	0.2500	0.03394	ug/L	!ib
Arsenic	[0.1326]	0.5000	0.09029	ug/L	!ib
Barium	[0.02871]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.03294]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.01546]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	[0.01407]	0.2500	0.005283	ug/L	!ib
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.01646]	0.2500	0.01266	ug/L	!ib
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.2271]	0.5000	0.02100	ug/L	!ib
Vanadium	[0.1004]	0.5000	0.08283	ug/L	!ib
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	387552	-5.24
Scandium	289167	267846	-7.37
Germanium	59725	53474	-10.47
Indium	466498	376163	-19.36
Bismuth	483064	362491	-24.96

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997124 File : f0615124 Time : 07-JUN-2006 03:00
Cal : 56226997001 Caldate: 06-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1040]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	410496	0.37
Scandium	289167	275257	-4.81
Germanium	59725	55531	-7.02
Indium	466498	379673	-18.61
Bismuth	483064	363170	-24.82

=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05
Seqnum : 56226997014 File : f0615014
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3612, S3310

IDF : 1.0
Time : 06-JUN-2006 16:30

Analyte	Quant	RL	Units	Flags
Antimony	2.128	0.2500	ug/L	
Arsenic	0.5787	0.5000	ug/L	
Barium	0.8640	0.2500	ug/L	
Beryllium	[0.01813]	0.2500	ug/L	
Cadmium	[0.1437]	0.2500	ug/L	
Chromium	0.9933	0.5000	ug/L	
Cobalt	2.719	0.2500	ug/L	
Copper	1.606	0.5000	ug/L	
Lead	1.201	0.2500	ug/L	
Manganese	0.8555	0.2500	ug/L	
Nickel	1.321	0.2500	ug/L	
Selenium	[0.3074]	0.5000	ug/L	
Silver	[0.1669]	0.2500	ug/L	
Thallium	[0.2344]	0.5000	ug/L	
Vanadium	[0.1434]	0.5000	ug/L	
Zinc	2.847	0.5000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	100900	ug/L	101
Calcium	300000	286300	ug/L	95
Iron	250000	231300	ug/L	93
Magnesium	100000	94830	ug/L	95
Molybdenum	2000	2022	ug/L	101
Potassium	100000	95770	ug/L	96
Sodium	250000	232800	ug/L	93

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	337424	-17.50
Scandium	289167	261874	-9.44
Germanium	59725	52719	-11.73
Indium	466498	388104	-16.80
Bismuth	483064	386523	-19.99

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997015 File : f0615015 Time : 06-JUN-2006 16:36
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3620, S3310

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	98660	ug/L	-1		
Arsenic	100.0	106.4	ug/L	6	20	
Cadmium	100.0	100.5	ug/L	1	20	
Calcium	300000	282900	ug/L	-6		
Chromium	200.0	205.7	ug/L	3	20	
Cobalt	200.0	196.8	ug/L	-2	20	
Copper	200.0	194.5	ug/L	-3	20	
Iron	250000	225100	ug/L	-10		
Magnesium	100000	92290	ug/L	-8		
Manganese	200.0	213.4	ug/L	7	20	
Molybdenum	2000	2009	ug/L	0		
Nickel	200.0	197.6	ug/L	-1	20	
Potassium	100000	94880	ug/L	-5		
Selenium	100.0	95.20	ug/L	-5	20	
Silver	50.00	50.23	ug/L	0	20	
Sodium	250000	228200	ug/L	-9		
Vanadium	200.0	209.7	ug/L	5	20	
Zinc	100.0	105.9	ug/L	6	20	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Scandium	289167	248483	-14.07
Germanium	59725	51041	-14.54

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05
Seqnum : 56226997030 File : f0615030
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3612, S3310

IDF : 1.0
Time : 06-JUN-2006 18:00

Analyte	Quant	RL	Units	Flags
Antimony	2.114	0.2500	ug/L	
Arsenic	[0.4367]	0.5000	ug/L	
Barium	0.9599	0.2500	ug/L	
Beryllium	[0.03220]	0.2500	ug/L	
Cadmium	[0.07788]	0.2500	ug/L	
Chromium	0.9488	0.5000	ug/L	
Cobalt	2.585	0.2500	ug/L	
Copper	1.549	0.5000	ug/L	
Lead	1.123	0.2500	ug/L	
Manganese	0.9190	0.2500	ug/L	
Nickel	1.260	0.2500	ug/L	
Selenium	[0.2489]	0.5000	ug/L	
Silver	[0.1499]	0.2500	ug/L	
Thallium	[0.1208]	0.5000	ug/L	
Vanadium	[0.1214]	0.5000	ug/L	
Zinc	2.570	0.5000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	100000	ug/L	100
Calcium	300000	286000	ug/L	95
Iron	250000	226900	ug/L	91
Magnesium	100000	93480	ug/L	93
Molybdenum	2000	2014	ug/L	101
Potassium	100000	95890	ug/L	96
Sodium	250000	229300	ug/L	92

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	322707	-21.10
Scandium	289167	251638	-12.98
Germanium	59725	52181	-12.63
Indium	466498	381882	-18.14
Bismuth	483064	380000	-21.34

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997031 File : f0615031 Time : 06-JUN-2006 18:06
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3620, S3310

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	99290	ug/L	-1		
Arsenic	100.0	105.9	ug/L	6	20	
Cadmium	100.0	97.57	ug/L	-2	20	
Calcium	300000	281900	ug/L	-6		
Chromium	200.0	212.5	ug/L	6	20	
Cobalt	200.0	196.1	ug/L	-2	20	
Copper	200.0	194.7	ug/L	-3	20	
Iron	250000	226200	ug/L	-10		
Magnesium	100000	92970	ug/L	-7		
Manganese	200.0	212.6	ug/L	6	20	
Molybdenum	2000	1984	ug/L	-1		
Nickel	200.0	197.2	ug/L	-1	20	
Potassium	100000	94210	ug/L	-6		
Selenium	100.0	95.84	ug/L	-4	20	
Silver	50.00	49.37	ug/L	-1	20	
Sodium	250000	231000	ug/L	-8		
Vanadium	200.0	220.4	ug/L	10	20	
Zinc	100.0	106.0	ug/L	6	20	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Scandium	289167	258074	-10.75
Germanium	59725	53085	-11.12

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997076 File : f0615076 Time : 06-JUN-2006 22:31
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3612, S3310

Analyte	Quant	RL	Units	Flags
Antimony	2.129	0.2500	ug/L	
Arsenic	[0.3958]	0.5000	ug/L	
Barium	1.058	0.2500	ug/L	
Beryllium	[0.03502]	0.2500	ug/L	
Cadmium	[0.08369]	0.2500	ug/L	
Chromium	1.075	0.5000	ug/L	
Cobalt	2.749	0.2500	ug/L	
Copper	1.637	0.5000	ug/L	
Lead	1.479	0.2500	ug/L	
Manganese	1.645	0.2500	ug/L	
Nickel	1.569	0.2500	ug/L	
Selenium	[0]	0.5000	ug/L	
Silver	[0.1345]	0.2500	ug/L	
Thallium	[0.03900]	0.5000	ug/L	
Vanadium	[0.1528]	0.5000	ug/L	
Zinc	3.254	0.5000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	105200	ug/L	105
Calcium	300000	281400	ug/L	94
Iron	250000	231900	ug/L	93
Magnesium	100000	98790	ug/L	99
Molybdenum	2000	1885	ug/L	94
Potassium	100000	95030	ug/L	95
Sodium	250000	246200	ug/L	98

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	365672	-10.59
Scandium	289167	276093	-4.52
Germanium	59725	54486	-8.77
Indium	466498	371501	-20.36
Bismuth	483064	352538	-27.02

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997077 File : f0615077 Time : 06-JUN-2006 22:36
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3620, S3310

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	102700	ug/L	3		
Arsenic	100.0	102.9	ug/L	3	20	
Cadmium	100.0	90.82	ug/L	-9	20	
Calcium	300000	272700	ug/L	-9		
Chromium	200.0	209.5	ug/L	5	20	
Cobalt	200.0	204.5	ug/L	2	20	
Copper	200.0	195.6	ug/L	-2	20	
Iron	250000	226700	ug/L	-9		
Magnesium	100000	96680	ug/L	-3		
Manganese	200.0	214.2	ug/L	7	20	
Molybdenum	2000	1863	ug/L	-7		
Nickel	200.0	198.6	ug/L	-1	20	
Potassium	100000	92800	ug/L	-7		
Selenium	100.0	92.60	ug/L	-7	20	
Silver	50.00	45.44	ug/L	-9	20	
Sodium	250000	239800	ug/L	-4		
Vanadium	200.0	221.3	ug/L	11	20	
Zinc	100.0	106.0	ug/L	6	20	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Scandium	289167	271540	-6.10
Germanium	59725	53545	-10.35

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997125 File : f0615125 Time : 07-JUN-2006 03:06
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3612, S3310

Analyte	Quant	RL	Units	Flags
Antimony	2.189	0.2500	ug/L	
Arsenic	0.5440	0.5000	ug/L	
Barium	0.9617	0.2500	ug/L	
Beryllium	[0.009309]	0.2500	ug/L	
Cadmium	[0.07816]	0.2500	ug/L	
Chromium	0.9383	0.5000	ug/L	
Cobalt	2.619	0.2500	ug/L	
Copper	1.594	0.5000	ug/L	
Lead	1.183	0.2500	ug/L	
Manganese	0.8678	0.2500	ug/L	
Nickel	1.533	0.2500	ug/L	
Selenium	[0.4716]	0.5000	ug/L	
Silver	[0.1123]	0.2500	ug/L	
Thallium	[0.1349]	0.5000	ug/L	
Vanadium	[0.1476]	0.5000	ug/L	
Zinc	2.663	0.5000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	111100	ug/L	111
Calcium	300000	284700	ug/L	95
Iron	250000	229000	ug/L	92
Magnesium	100000	105100	ug/L	105
Molybdenum	2000	1816	ug/L	91
Potassium	100000	98550	ug/L	99
Sodium	250000	259100	ug/L	104

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Lithium	409002	334000	-18.34
Scandium	289167	249097	-13.86
Germanium	59725	49456	-17.19
Indium	466498	314078	-32.67
Bismuth	483064	288621	-40.25

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56226997126 File : f0615126 Time : 07-JUN-2006 03:11
Cal : 56226997001 Caldate: 06-JUN-2006
Standards: S3620, S3310

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	107600	ug/L	8		
Arsenic	100.0	101.6	ug/L	2	20	
Cadmium	100.0	85.36	ug/L	-15	20	
Calcium	300000	282400	ug/L	-6		
Chromium	200.0	213.1	ug/L	7	20	
Cobalt	200.0	201.6	ug/L	1	20	
Copper	200.0	196.1	ug/L	-2	20	
Iron	250000	229600	ug/L	-8		
Magnesium	100000	100600	ug/L	1		
Manganese	200.0	216.5	ug/L	8	20	
Molybdenum	2000	1811	ug/L	-9		
Nickel	200.0	202.3	ug/L	1	20	
Potassium	100000	96190	ug/L	-4		
Selenium	100.0	87.24	ug/L	-13	20	
Silver	50.00	44.00	ug/L	-12	20	
Sodium	250000	253300	ug/L	1		
Vanadium	200.0	230.1	ug/L	15	20	
Zinc	100.0	103.0	ug/L	3	20	

ISTD (ICALBLK f0615003)	ICALBLK Abund	Abund	%Drift
Scandium	289167	253426	-12.36
Germanium	59725	48658	-18.53

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56226997 Instrument: MET05 Agilent ICP-MS Begun: 06-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
001	f0615001	TUN				06-JUN-2006 15:17	1.0	1.0		1	
002	f0615002	X	RINSE			06-JUN-2006 15:23	1.0			2	
003	f0615003	ICALBLK	STD-BLK			06-JUN-2006 15:29	1.0	1.0		2	
004	f0615004	ICAL	CS1			06-JUN-2006 15:34	1.0	1.0		3	
005	f0615005	ICAL	CS2			06-JUN-2006 15:40	1.0	1.0		4	
006	f0615006	ICAL	CS3			06-JUN-2006 15:45	1.0	1.0		5	
007	f0615007	ICAL	CS4			06-JUN-2006 15:51	1.0	1.0		6	
008	f0615008	ICAL	CS5			06-JUN-2006 15:57	1.0	1.0		7	
009	f0615009	ICAL	CS6			06-JUN-2006 16:02	1.0	1.0		8	
010	f0615010	ICV				06-JUN-2006 16:08	1.0	1.0	1	9	
011	f0615011	X	RINSE			06-JUN-2006 16:13	1.0			2	
012	f0615012	X				06-JUN-2006 16:19	1.0	1.0	1	2	
013	f0615013	ICB				06-JUN-2006 16:25	1.0	1.0	1	2	
014	f0615014	ICSA				06-JUN-2006 16:30	1.0	1.0	1	10 2	7:CA=286300
015	f0615015	ICSAB				06-JUN-2006 16:36	1.0	1.0	1	11 2	10:CA=282900
016	f0615016	X	RINSE			06-JUN-2006 16:41	1.0			2	
017	f0615017	X	RINSE			06-JUN-2006 16:47	1.0			2	
018	f0615018	SAMPLE	187072-010	114019	Filtra	06-JUN-2006 16:53	1.0	1.0	1	2	
019	f0615019	SAMPLE	187070-007	114018	Filtra	06-JUN-2006 16:58	1.0	1.0	1	2	5:NA=680400
020	f0615020	SAMPLE	187070-009	114018	Filtra	06-JUN-2006 17:04	5.0	1.0	1	2	4:NA=716200
021	f0615021	X	187070-007	114018	Filtra	06-JUN-2006 17:10	1.0			2	
022	f0615022	SAMPLE	187070-009	114018	Filtra	06-JUN-2006 17:15	5.0	1.0	1	2	4:NA=783200
023	f0615023	SAMPLE	187070-007	114018	Filtra	06-JUN-2006 17:21	1.0	1.0	1	2	5:NA=711000
024	f0615024	X	RINSE			06-JUN-2006 17:26	1.0			2	
025	f0615025	X				06-JUN-2006 17:32	1.0			12 2	
026	f0615026	CCV				06-JUN-2006 17:38	1.0	1.0	1	12 2	
027	f0615027	X	RINSE			06-JUN-2006 17:43	1.0			2	
028	f0615028	X				06-JUN-2006 17:49	1.0			2	
029	f0615029	CCB				06-JUN-2006 17:55	1.0	1.0	1	2	
030	f0615030	ICSA				06-JUN-2006 18:00	1.0	1.0	1	10 2	7:CA=286000
031	f0615031	ICSAB				06-JUN-2006 18:06	1.0	1.0	1	11 2	10:CA=281900

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Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3602 13=S3621 14=S3085

Analyst: Carlyn Date: 6/7/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56226997 Instrument: MET05 Agilent ICP-MS Begun: 06-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	f0615032	X	RINSE			06-JUN-2006 18:11	1.0				2	
033	f0615033	X	RINSE			06-JUN-2006 18:17	1.0				2	
034	f0615034	BLANK	QC342079	113955	Filtra	06-JUN-2006 18:22	1.0	1.0	6	1	2	
035	f0615035	BS	QC342080	113955	Filtra	06-JUN-2006 18:28	1.0	1.0		1	2	
036	f0615036	BSD	QC342081	113955	Filtra	06-JUN-2006 18:42	1.0	1.0		1	2	
037	f0615037	CCV				06-JUN-2006 18:48	1.0	1.0		1	13 2	
038	f0615038	X	RINSE			06-JUN-2006 18:53	1.0				2	
039	f0615039	CCB				06-JUN-2006 19:04	1.0	1.0		1	2	
040	f0615040	X				06-JUN-2006 19:10	1.0				2	
041	f0615041	MSS	187020-001	113955	Filtra	06-JUN-2006 19:15	1.0	1.0	4	1	2	4:NA=133500
042	f0615042	SER	QC342084	113955	Filtra	06-JUN-2006 19:21	5.0	1.0		1	2	3:NA=28020.0
043	f0615043	MS	QC342082	113955	Filtra	06-JUN-2006 19:27	1.0	1.0	2	1	2	6:NA=142400
044	f0615044	MSD	QC342083	113955	Filtra	06-JUN-2006 19:32	1.0	1.0	1	1	2	5:NA=139100
045	f0615045	PDS	QC342085	113955	Filtra	06-JUN-2006 19:38	1.0	1.0	1	1	14 2	5:NA=136000
046	f0615046	X	RINSE			06-JUN-2006 19:43	1.0				2	
047	f0615047	SAMPLE	187020-002	113955	Filtra	06-JUN-2006 19:49	1.0	1.0	4	1	2	4:NA=111500
048	f0615048	SAMPLE	187020-003	113955	Filtra	06-JUN-2006 19:54	1.0	1.0	4	1	2	4:NA=92740.0
049	f0615049	SAMPLE	187020-004	113955	Filtra	06-JUN-2006 20:00	1.0	1.0	3	1	2	3:NA=37370.0
050	f0615050	SAMPLE	187020-005	113955	Filtra	06-JUN-2006 20:06	1.0	1.0	4	1	2	4:NA=84550.0
051	f0615051	SAMPLE	187020-006	113955	Filtra	06-JUN-2006 20:11	1.0	1.0	4	1	2	4:NA=84460.0
052	f0615052	X	RINSE			06-JUN-2006 20:17	1.0				2	
053	f0615053	CCV				06-JUN-2006 20:22	1.0	1.0		1	13 2	
054	f0615054	X	RINSE			06-JUN-2006 20:28	1.0				2	
055	f0615055	X				06-JUN-2006 20:33	1.0				2	
056	f0615056	CCB				06-JUN-2006 20:39	1.0	1.0		1	2	
057	f0615057	SAMPLE	187020-007	113955	Filtra	06-JUN-2006 20:45	1.0	1.0	4	1	2	4:NA=81030.0
058	f0615058	SAMPLE	187020-008	113955	Filtra	06-JUN-2006 20:50	1.0	1.0	4	1	2	4:NA=82040.0
059	f0615059	SAMPLE	187020-009	113955	Filtra	06-JUN-2006 20:56	1.0	1.0	3	1	2	3:NA=103800
060	f0615060	SAMPLE	187020-010	113955	Filtra	06-JUN-2006 21:01	1.0	1.0	3	1	2	3:NA=99720.0
061	f0615061	SAMPLE	187020-011	113955	Filtra	06-JUN-2006 21:07	1.0	1.0	1	1	2	1:NA=35050.0
062	f0615062	SAMPLE	187020-012	113955	Filtra	06-JUN-2006 21:13	1.0	1.0	3	1	2	3:NA=58700.0

Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3602 13=S3621 14=S3085

Analyst: K Carlyn Date: 6/7/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56226997 Instrument: MET05 Agilent ICP-MS Begun: 06-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
063	f0615063	SAMPLE	187020-013	113955	Filtra	06-JUN-2006 21:18	1.0	1.0	2		1	2	2:MG=84350.0
064	f0615064	SAMPLE	187020-014	113955	Filtra	06-JUN-2006 21:24	1.0	1.0	4		1	2	4:NA=203400
065	f0615065	SAMPLE	187020-015	113955	Filtra	06-JUN-2006 21:29	1.0	1.0	3		1	2	3:NA=228100
066	f0615066	SAMPLE	187020-011	113955	Water	06-JUN-2006 21:35	1.0	1.0	3		1	2	3:NA=33390.0
067	f0615067	X	RINSE			06-JUN-2006 21:40	1.0					2	
068	f0615068	CCV				06-JUN-2006 21:46	1.0	1.0			1	13 2	
069	f0615069	X	RINSE			06-JUN-2006 21:52	1.0					2	
070	f0615070	CCB				06-JUN-2006 21:57	1.0	1.0			1	2	
071	f0615071	X				06-JUN-2006 22:03	1.0					2	
072	f0615072	SAMPLE	187020-012	113955	Water	06-JUN-2006 22:09	1.0	1.0	6		1	2	5:NA=55760.0
073	f0615073	SAMPLE	187020-013	113955	Water	06-JUN-2006 22:14	1.0	1.0	5		1	2	4:MG=84280.0
074	f0615074	SAMPLE	187020-014	113955	Water	06-JUN-2006 22:20	1.0	1.0	7		1	2	6:NA=189000
075	f0615075	SAMPLE	187020-015	113955	Water	06-JUN-2006 22:25	1.0	1.0	9		1	2	8:NA=224500
076	f0615076	ICSA				06-JUN-2006 22:31	1.0	1.0			1	10 2	7:CA=281400
077	f0615077	ICSAB				06-JUN-2006 22:36	1.0	1.0			1	11 2	11:CA=272700
078	f0615078	X	RINSE			06-JUN-2006 22:42	1.0					2	
079	f0615079	X	RINSE			06-JUN-2006 22:47	1.0					2	
080	f0615080	CCV				06-JUN-2006 22:53	1.0	1.0	4		1	13 2	
081	f0615081	X	RINSE			06-JUN-2006 22:58	1.0					2	
082	f0615082	CCB				06-JUN-2006 23:04	1.0	1.0			1	2	
083	f0615083	X				06-JUN-2006 23:10	1.0					2	
084	f0615084	BLANK	QC342089	113957	Filtra	06-JUN-2006 23:15	1.0	1.0	1		1	2	
085	f0615085	BS	QC342090	113957	Filtra	06-JUN-2006 23:21	1.0	1.0	4		1	2	
086	f0615086	BSD	QC342091	113957	Filtra	06-JUN-2006 23:27	1.0	1.0	4		1	2	
087	f0615087	X	RINSE			06-JUN-2006 23:32	1.0					2	
088	f0615088	MSS	187112-002	113957	Filtra	06-JUN-2006 23:38	1.0	1.0	4		1	2	3:NA=55770.0
089	f0615089	SER	QC342094	113957	Filtra	06-JUN-2006 23:44	5.0	1.0	1		1	2	
090	f0615090	MS	QC342092	113957	Filtra	06-JUN-2006 23:49	1.0	1.0	1		1	2	3:NA=64380.0
091	f0615091	MSD	QC342093	113957	Filtra	06-JUN-2006 23:55	1.0	1.0	1		1	2	3:NA=67400.0
092	f0615092	PDS	QC342095	113957	Filtra	07-JUN-2006 00:00	1.0	1.0	1		1	14 2	3:NA=64650.0
093	f0615093	X	RINSE			07-JUN-2006 00:06	1.0					2	

Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3602 13=S3621 14=S3085

Analyst: K Carlyn Date: 6/7/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56226997 Instrument: MET05 Agilent ICP-MS Begun: 06-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
094	f0615094	SAMPLE	187112-003	113957	Filtra	07-JUN-2006 00:11	1.0	1.0	4		1	2	3:MG=376100
095	f0615095	SAMPLE	187112-004	113957	Filtra	07-JUN-2006 00:17	1.0	1.0	4		1	2	4:MG=211300
096	f0615096	X	RINSE			07-JUN-2006 00:23	1.0					2	
097	f0615097	CCV				07-JUN-2006 00:28	1.0	1.0	1		1	13 2	
098	f0615098	X	RINSE			07-JUN-2006 00:34	1.0					2	
099	f0615099	X				07-JUN-2006 00:39	1.0					2	
.00	f0615100	CCB				07-JUN-2006 00:45	1.0	1.0			1	2	
.01	f0615101	SAMPLE	187112-005	113957	Water	07-JUN-2006 00:51	1.0	1.0	1		1	2	5:NA=149200
.02	f0615102	SAMPLE	187112-006	113957	Filtra	07-JUN-2006 00:56	1.0	1.0	3		1	2	2:NA=220300
.03	f0615103	SAMPLE	187112-007	113957	Filtra	07-JUN-2006 01:02	1.0	1.0	3		1	2	2:NA=238500
.04	f0615104	SAMPLE	187112-008	113957	Filtra	07-JUN-2006 01:08	1.0	1.0	3		1	2	2:NA=211400
.05	f0615105	SAMPLE	187112-009	113957	Filtra	07-JUN-2006 01:13	1.0	1.0	3		1	2	2:NA=228400
.06	f0615106	SAMPLE	187112-010	113957	Filtra	07-JUN-2006 01:19	1.0	1.0	3		1	2	2:NA=130800
07	f0615107	SAMPLE	187112-011	113957	Filtra	07-JUN-2006 01:24	1.0	1.0	1		1	2	
08	f0615108	SAMPLE	187112-012	113957	Filtra	07-JUN-2006 01:30	1.0	1.0	5		1	2	4:NA=210700
09	f0615109	SAMPLE	187112-013	113957	Water	07-JUN-2006 01:36	1.0	1.0	2		1	2	
10	f0615110	SAMPLE	187137-001	113957	Filtra	07-JUN-2006 01:41	1.0	1.0	1		1	2	
11	f0615111	X	RINSE			07-JUN-2006 01:47	1.0					2	
12	f0615112	CCV				07-JUN-2006 01:52	1.0	1.0	1		1	13 2	
13	f0615113	X	RINSE			07-JUN-2006 01:58	1.0					2	
14	f0615114	CCB				07-JUN-2006 02:04	1.0	1.0			1	2	
15	f0615115	X				07-JUN-2006 02:09	1.0					2	
16	f0615116	SAMPLE	187020-017	113957	Filtra	07-JUN-2006 02:15	1.0	1.0	6		1	2	3:NA=64160.0
17	f0615117	SAMPLE	187020-018	113957	Filtra	07-JUN-2006 02:21	1.0	1.0	6		1	2	3:NA=68590.0
18	f0615118	SAMPLE	187020-019	113957	Filtra	07-JUN-2006 02:26	1.0	1.0	6		1	2	3:NA=79910.0
19	f0615119	SAMPLE	187020-020	113957	Filtra	07-JUN-2006 02:32	1.0	1.0	6		1	2	3:NA=79470.0
20	f0615120	X	RINSE			07-JUN-2006 02:37	1.0					2	
21	f0615121	CCV				07-JUN-2006 02:43	1.0	1.0	3		1	13 2	
22	f0615122	X	RINSE			07-JUN-2006 02:49	1.0					2	
23	f0615123	X				07-JUN-2006 02:54	1.0					2	
24	f0615124	CCB				07-JUN-2006 03:00	1.0	1.0			1	2	

tds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3602 13=S3621 14=S3085

nalyst: K Carlyn Date: 6/7/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56226997 Instrument: MET05 Agilent ICP-MS Begun: 06-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
.25	f0615125	ICSA				07-JUN-2006 03:06	1.0	1.0		1	10 2	7:CA=284700
.26	f0615126	ICSAB				07-JUN-2006 03:11	1.0	1.0		1	11 2	12:CA=282400

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tds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3602 13=S3621 14=S3085

Analyst: K Carlyon Date: 6/7/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6010B

Reviewer: ---

Inst : MET08
Calnum : 86228386001
Units : ug/L

Date : 07-JUN-2006 14:26
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	060706ar.txt	86228386002	CRIM08	07-JUN-2006 14:30	S3580
L2	060706ar.txt	86228386003	CS100	07-JUN-2006 14:34	S3582
L3	060706ar.txt	86228386004	CS1K	07-JUN-2006 14:37	S3581
L4	060706ar.txt	86228386005	CS10K	07-JUN-2006 14:40	S3583
L5	060706ar.txt	86228386006	CS100K	07-JUN-2006 14:42	S3584

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Antimony	A	35.632	35.388	35.227	35.226		LOR0	0.00000	0.02839		35.368	1.000	0.995	
Arsenic	A	19.617	21.304	21.092	20.987		LOR0	0.00000	0.04765		20.750	1.000	0.995	
Barium	A	432.54	398.04	392.94	375.03		LOR0	0.00000	0.00267		399.64	1.000	0.995	
Beryllium	A	3414.2	3382.1	3379.0			LOR0	0.00000	2.96E-4		3391.8	1.000	0.995	
Boron	A	186.19		190.90	192.17		LOR0	0.00000	0.00520		189.75	1.000	0.995	
Cadmium	A	332.79	328.18	328.09	313.02		LOR0	0.00000	0.00319		325.52	1.000	0.995	
Chromium	A	81.487	82.089	82.001	79.203		LOR0	0.00000	0.01262		81.195	1.000	0.995	
Cobalt	A	109.20	107.99	108.71	106.62		LOR0	0.00000	0.00938		108.13	1.000	0.995	278
Copper	A	669.55	635.63	635.19	622.05		LOR0	0.00000	0.00161		640.61	1.000	0.995	
Lead	A	53.641	50.224	50.381	48.596		LOR0	0.00000	0.02057		50.710	1.000	0.995	
Manganese	A	895.27	876.73	872.11	823.39		LOR0	0.00000	0.00121		866.88	1.000	0.995	
Molybdenum	A	37.365	38.398	38.497	37.735		LOR0	0.00000	0.02650		37.999	1.000	0.995	
Nickel	A	58.464	57.058	57.254	55.613		LOR0	0.00000	0.01798		57.097	1.000	0.995	
Selenium	A	18.471	21.904	22.125	22.037		LOR0	0.00000	0.04538		21.134	1.000	0.995	
Silver	A	388.25	391.08	396.30	402.92		LOR0	0.00000	0.00249		394.64	1.000	0.995	
Thallium	A	16.007	19.267	19.389	18.837		LOR0	0.00000	0.05307		18.375	1.000	0.995	
Tin	A	21.258	20.682	20.800	20.590		LOR0	0.00000	0.04856		20.833	1.000	0.995	
Titanium	A	944.09	981.23	974.90	894.59		LOR0	0.00000	0.00112		948.70	1.000	0.995	
Vanadium	A	130.68	120.48	121.09	121.88		LOR0	0.00000	0.00821		123.53	1.000	0.995	
Zinc	A	135.25	155.58	121.37	118.70		LOR0	0.00000	0.00842		132.72	1.000	0.995	
Aluminum	R	1.2010		1.2551	1.2193	1.2084	LOR0	0.00000	0.82749		1.2209	1.000	0.995	
Calcium	R	13.073		11.493	10.362	9.8324	LOR0	0.00000	0.10165		11.190	1.000	0.995	
Iron	R	7.7765		7.8341	7.6982	7.0793	LOR0	0.00000	0.14113		7.5970	1.000	0.995	
Magnesium	R	2.0883		2.0756	2.0317	1.9213	LOR0	0.00000	0.52019		2.0292	1.000	0.995	
Potassium	R	5.0136		5.1422	5.1748	5.1567	LOR0	0.00000	0.19392		5.1218	1.000	0.995	
Sodium	R	10.416		10.814	10.170	9.7199	LOR0	0.00000	0.10283		10.280	1.000	0.995	

Instrument amount = a0 + response * a1 + response^2 * a2; LOR0=Linear regression forced thru origin, including 0,0 point

86228386001

Sequence No.: 1
Sample ID: ICALBLK,
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/7/2006 2:26:44 PM
Data Type: Reprocessed on 6/7/2006 3:13:18 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICALBLK,

Analyte	Back Pressure	Flow
All	155.0 kPa	0.55 L/min

Mean Data: ICALBLK,

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	1564.1	278.66	17.82%	[0.00]	ug/L
Al 308.215 R	106.5	2.85	2.68%	[0.00]	ug/L
As 188.979	4.4	30.08	677.09%	[0.00]	ug/L
B 249.677	2340.3	75.22	3.21%	[0.00]	ug/L
Ba 233.527	-103.5	18.37	17.75%	[0.00]	ug/L
Be 313.107	2173.6	176.74	8.13%	[0.00]	ug/L
Ca 315.887 R	369.6	2.27	0.61%	[0.00]	ug/L
Cd 214.440	-7.1	9.01	127.19%	[0.00]	ug/L
Co 228.616	-231.8	10.24	4.42%	[0.00]	ug/L
Cr 267.716	-213.7	5.07	2.37%	[0.00]	ug/L
Cu 324.752	-468.3	51.00	10.89%	[0.00]	ug/L
Fe 238.204 R	82.5	2.83	3.43%	[0.00]	ug/L
K 766.490 R	-5879.4	273.47	4.65%	[0.00]	ug/L
Mg 279.077 R	-88.1	7.37	8.36%	[0.00]	ug/L
Mn 257.610	58.5	4.69	8.03%	[0.00]	ug/L
Mo 202.031	-18.7	6.89	36.95%	[0.00]	ug/L
Na 589.592 R	1276.6	85.94	6.73%	[0.00]	ug/L
Ni 231.604	324.6	13.34	4.11%	[0.00]	ug/L
Pb 220.353	-26.7	14.91	55.78%	[0.00]	ug/L
Sb 206.836	571.7	51.28	8.97%	[0.00]	ug/L
Se 196.026	-69.3	6.09	8.79%	[0.00]	ug/L
Ti 334.940 R	355.0	114.02	32.12%	[0.00]	ug/L
Tl 190.801	148.7	16.48	11.08%	[0.00]	ug/L
V 292.402	-1540.2	21.06	1.37%	[0.00]	ug/L
Zn 206.200	-1012.0	1.56	0.15%	[0.00]	ug/L
Sn 189.927	8.4	2.39	28.38%	[0.00]	ug/L

Sequence No.: 2
Sample ID: ICAL,CRIM08
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 6/7/2006 2:30:46 PM
Data Type: Reprocessed on 6/7/2006 3:13:21 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CRIM08

Analyte	Back Pressure	Flow
All	152.0 kPa	0.55 L/min

Mean Data: ICAL,CRIM08

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	1626250.4	10929.96	0.67%	100.0	%
Y	242559.9	3791.12	1.56%	100.0	%
Ag 328.068†	1941.3	91.63	4.72%	[5.0]	ug/L
Al 308.215 R†	120.1	1.29	1.08%	[100]	ug/L
As 188.979†	98.1	18.52	18.88%	[5.0]	ug/L
B 249.677†	18619.0	199.27	1.07%	[100]	ug/L
Ba 233.527†	2162.7	20.43	0.94%	[5.0]	ug/L
Be 313.107†	6828.4	35.24	0.52%	[2.0]	ug/L
Ca 315.887 R†	2614.7	67.26	2.57%	[200]	ug/L
Cd 214.440†	1664.0	33.30	2.00%	[5.0]	ug/L
Co 228.616†	546.0	20.52	3.76%	[5.0]	ug/L
Cr 267.716†	407.4	7.92	1.94%	[5.0]	ug/L
Cu 324.752†	3347.8	123.77	3.70%	[5.0]	ug/L
Fe 238.204 R†	777.7	12.87	1.66%	[100]	ug/L
K 766.490 R†	2506.8	41.78	1.67%	[500]	ug/L
Mg 279.077 R†	417.7	2.26	0.54%	[200]	ug/L
Mn 257.610†	4476.3	47.29	1.06%	[5.0]	ug/L
Mo 202.031†	186.8	4.44	2.38%	[5.0]	ug/L
Na 589.592 R†	5208.0	169.54	3.26%	[500]	ug/L
Ni 231.604†	292.3	8.15	2.79%	[5.0]	ug/L
Pb 220.353†	160.9	13.26	8.24%	[3.0]	ug/L
Sb 206.836†	178.2	10.22	5.74%	[5.0]	ug/L
Se 196.026†	92.4	19.46	21.07%	[5.0]	ug/L
Ti 334.940 R†	9440.9	82.35	0.87%	[10]	ug/L
Tl 190.801†	80.0	4.71	5.89%	[5.0]	ug/L
V 292.402†	653.4	28.04	4.29%	[5.0]	ug/L
Zn 206.200†	2705.0	17.47	0.65%	[20]	ug/L
Sn 189.927†	850.3	17.24	2.03%	[40]	ug/L

Sequence No.: 3
Sample ID: ICAL,CS100
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/7/2006 2:34:51 PM
Data Type: Reprocessed on 6/7/2006 3:13:22 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: ICAL,CS100

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	1638572.6	2598.44	0.16%	100.8	%
Y	260163.7	2739.25	1.05%	107.3	%
Ag 328.068†	39108.1	145.14	0.37%	[100]	ug/L
As 188.979†	2130.4	39.22	1.84%	[100]	ug/L
Ba 233.527†	39803.9	58.52	0.15%	[100]	ug/L
Be 313.107†	338213.6	1845.47	0.55%	[100]	ug/L
Cd 214.440†	32818.1	88.23	0.27%	[100]	ug/L
Co 228.616†	10799.4	47.48	0.44%	[100]	ug/L
Cr 267.716†	8208.9	14.72	0.18%	[100]	ug/L
Cu 324.752†	63562.6	361.98	0.57%	[100]	ug/L
Mn 257.610†	87673.2	57.35	0.07%	[100]	ug/L
Mo 202.031†	3839.8	29.27	0.76%	[100]	ug/L
Ni 231.604†	5705.8	16.32	0.29%	[100]	ug/L
Pb 220.353†	5022.4	15.22	0.30%	[100]	ug/L
Sb 206.836†	3538.8	44.69	1.26%	[100]	ug/L
Se 196.026†	2190.4	47.74	2.18%	[100]	ug/L
Ti 334.940 R†	98122.6	387.63	0.40%	[100]	ug/L
Tl 190.801†	1926.7	15.13	0.79%	[100]	ug/L
V 292.402†	12048.5	50.28	0.42%	[100]	ug/L
Zn 206.200†	15558.2	92.40	0.59%	[100]	ug/L
Sn 189.927†	2068.2	7.26	0.35%	[100]	ug/L

Sequence No.: 4
Sample ID: ICAL,CS1K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/7/2006 2:37:55 PM
Data Type: Reprocessed on 6/7/2006 3:13:23 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS1K

Analyte	Back Pressure	Flow
All	155.0 kPa	0.55 L/min

Mean Data: ICAL,CS1K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	1670031.0	6934.36	0.42%	102.7	%
Y	249594.1	9545.75	3.82%	102.9	%
Ag 328.068†	396300.8	590.00	0.15%	[1000]	ug/L
Al 308.215 R†	1255.1	110.41	8.80%	[1000]	ug/L
As 188.979†	21091.7	239.19	1.13%	[1000]	ug/L
B 249.677†	190897.6	846.49	0.44%	[1000]	ug/L
Ba 233.527†	392942.7	2170.80	0.55%	[1000]	ug/L
Be 313.107†	3378971.4	10842.56	0.32%	[1000]	ug/L
Ca 315.887 R†	11492.8	576.61	5.02%	[1000]	ug/L
Cd 214.440†	328090.4	1726.39	0.53%	[1000]	ug/L
Co 228.616†	108712.8	1121.40	1.03%	[1000]	ug/L
Cr 267.716†	82001.3	846.27	1.03%	[1000]	ug/L
Cu 324.752†	635190.3	1417.79	0.22%	[1000]	ug/L
Fe 238.204 R†	7834.1	372.59	4.76%	[1000]	ug/L
K 766.490 R†	5142.2	121.18	2.36%	[1000]	ug/L
Mg 279.077 R†	2075.6	112.31	5.41%	[1000]	ug/L
Mn 257.610†	872109.5	3692.88	0.42%	[1000]	ug/L
Mo 202.031†	38497.1	356.18	0.93%	[1000]	ug/L
Na 589.592 R†	10813.6	559.14	5.17%	[1000]	ug/L
Ni 231.604†	57254.3	584.27	1.02%	[1000]	ug/L
Pb 220.353†	50380.7	671.78	1.33%	[1000]	ug/L
Sb 206.836†	35226.8	282.50	0.80%	[1000]	ug/L
Se 196.026†	22124.9	399.41	1.81%	[1000]	ug/L
Ti 334.940 R†	974902.7	4007.52	0.41%	[1000]	ug/L
Tl 190.801†	19389.1	291.24	1.50%	[1000]	ug/L
V 292.402†	121093.0	1596.99	1.32%	[1000]	ug/L
Zn 206.200†	121365.8	1114.90	0.92%	[1000]	ug/L
Sn 189.927†	20800.0	269.56	1.30%	[1000]	ug/L

Sequence No.: 5
Sample ID: ICAL,CS10K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/7/2006 2:40:09 PM
Data Type: Reprocessed on 6/7/2006 3:13:24 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS10K

Analyte	Back Pressure	Flow
All	155.0 kPa	0.55 L/min

Mean Data: ICAL,CS10K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	1673780.8	11835.42	0.71%	102.9	%
Y	252484.2	6642.56	2.63%	104.1	%
Ag 328.068†	805834.8	5920.50	0.73%	[2000]	ug/L
Al 308.215 R†	12192.8	131.64	1.08%	[10000]	ug/L
As 188.979†	209866.2	774.08	0.37%	[10000]	ug/L
B 249.677†	1921707.5	19951.75	1.04%	[10000]	ug/L
Ba 233.527†	3750256.4	15734.69	0.42%	[10000]	ug/L
Ca 315.887 R†	103616.6	1171.10	1.13%	[10000]	ug/L
Cd 214.440†	3130174.6	6580.23	0.21%	[10000]	ug/L
Co 228.616†	1066209.2	10693.08	1.00%	[10000]	ug/L
Cr 267.716†	792032.0	5456.62	0.69%	[10000]	ug/L
Cu 324.752†	6220502.7	23453.76	0.38%	[10000]	ug/L
Fe 238.204 R†	76981.8	662.17	0.86%	[10000]	ug/L
K 766.490 R†	51747.7	846.22	1.64%	[10000]	ug/L
Mg 279.077 R†	20317.4	193.92	0.95%	[10000]	ug/L
Mn 257.610†	8233924.0	21619.75	0.26%	[10000]	ug/L
Mo 202.031†	377349.4	3002.34	0.80%	[10000]	ug/L
Na 589.592 R†	101704.0	1145.41	1.13%	[10000]	ug/L
Ni 231.604†	556128.4	4022.06	0.72%	[10000]	ug/L
Pb 220.353†	485956.7	3311.48	0.68%	[10000]	ug/L
Sb 206.836†	352263.5	2996.51	0.85%	[10000]	ug/L
Se 196.026†	220369.1	628.13	0.29%	[10000]	ug/L
Ti 334.940 R†	8945873.6	40471.58	0.45%	[10000]	ug/L
Tl 190.801†	188374.6	844.60	0.45%	[10000]	ug/L
V 292.402†	1218765.0	7177.15	0.59%	[10000]	ug/L
Zn 206.200†	1187036.6	17368.12	1.46%	[10000]	ug/L
Sn 189.927†	205896.1	1321.22	0.64%	[10000]	ug/L

Sequence No.: 6
Sample ID: ICAL,CS100K
Analyst:
Logged In Analyst (Original) : Curtis and Tompkins
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 6/7/2006 2:42:57 PM
Data Type: Reprocessed on 6/7/2006 3:13:25 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICAL,CS100K

Analyte	Back Pressure	Flow
All	153.0 kPa	0.55 L/min

Mean Data: ICAL,CS100K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	1590737.8	14999.88	0.94%	97.82	%
Y	239375.7	4138.68	1.73%	98.69	%
Al 308.215 R†	120835.7	367.51	0.30%	[100000]	ug/L
Ca 315.887 R†	983243.9	3036.17	0.31%	[100000]	ug/L
Fe 238.204 R†	707926.7	2401.83	0.34%	[100000]	ug/L
K 766.490 R†	515670.3	1663.13	0.32%	[100000]	ug/L
Mg 279.077 R†	192125.5	787.13	0.41%	[100000]	ug/L
Na 589.592 R†	971990.3	5261.84	0.54%	[100000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	401.6	0.00000	0.999978	
Al 308.215 R	4	Lin Thru 0	0.0	1.208	0.00000	1.000000	
As 188.979	4	Lin Thru 0	0.0	20.99	0.00000	1.000000	
B 249.677	3	Lin Thru 0	0.0	192.2	0.00000	1.000000	
Ba 233.527	4	Lin Thru 0	0.0	375.2	0.00000	0.999989	
Be 313.107	3	Lin Thru 0	0.0	3379	0.00000	1.000000	
Ca 315.887 R	4	Lin Thru 0	0.0	9.838	0.00000	0.999984	
Cd 214.440	4	Lin Thru 0	0.0	313.2	0.00000	0.999989	
Co 228.616	4	Lin Thru 0	0.0	106.6	0.00000	0.999998	
Cr 267.716	4	Lin Thru 0	0.0	79.23	0.00000	0.999994	
Cu 324.752	4	Lin Thru 0	0.0	622.2	0.00000	0.999998	
Fe 238.204 R	4	Lin Thru 0	0.0	7.085	0.00000	0.999962	
K 766.490 R	4	Lin Thru 0	0.0	5.157	0.00000	1.000000	
Mg 279.077 R	4	Lin Thru 0	0.0	1.922	0.00000	0.999983	
Mn 257.610	4	Lin Thru 0	0.0	823.9	0.00000	0.999983	
Mo 202.031	4	Lin Thru 0	0.0	37.74	0.00000	0.999998	
Na 589.592 R	4	Lin Thru 0	0.0	9.724	0.00000	0.999989	
Ni 231.604	4	Lin Thru 0	0.0	55.63	0.00000	0.999996	
Pb 220.353	4	Lin Thru 0	0.0	48.61	0.00000	0.999993	
Sb 206.836	4	Lin Thru 0	0.0	35.23	0.00000	1.000000	
Se 196.026	4	Lin Thru 0	0.0	22.04	0.00000	1.000000	
Ti 334.940 R	4	Lin Thru 0	0.0	895.4	0.00000	0.999960	
Tl 190.801	4	Lin Thru 0	0.0	18.84	0.00000	0.999996	
V 292.402	4	Lin Thru 0	0.0	121.9	0.00000	1.000000	
Zn 206.200	4	Lin Thru 0	0.0	118.7	0.00000	0.999993	
Sn 189.927	4	Lin Thru 0	0.0	20.59	0.00000	0.999999	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6010B

Inst : MET08
Seqnum : 86228386007
Cal : 86228386001
Standards: S3541

File : 060706ar.txt
Caldate: 07-JUN-2006

IDF : 1.0
Time : 07-JUN-2006 14:45

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Antimony	A	35.368	35.255	5000	5004	ug/L	0	10	
Arsenic	A	20.750	21.289	5000	5072	ug/L	1	10	
Barium	A	399.64	385.30	5000	5134	ug/L	3	10	
Beryllium	A	3391.8	3417.3	500.0	505.7	ug/L	1	10	
Boron	A	189.75	195.33	5000	5083	ug/L	2	10	
Cadmium	A	325.52	320.74	5000	5121	ug/L	2	10	
Chromium	A	81.195	79.115	5000	4993	ug/L	0	10	
Cobalt	A	108.13	104.62	5000	4895	ug/L	-2	10	
Copper	A	640.61	623.52	5000	5011	ug/L	0	10	
Lead	A	50.710	48.045	5000	4941	ug/L	-1	10	
Manganese	A	866.88	833.05	5000	5056	ug/L	1	10	
Molybdenum	A	37.999	37.911	5000	5022	ug/L	0	10	
Nickel	A	57.097	54.835	5000	4929	ug/L	-1	10	
Selenium	A	21.134	22.147	5000	5025	ug/L	0	10	
Silver	A	394.64	390.78	1000	973.1	ug/L	-3	10	
Thallium	A	18.375	18.675	5000	4955	ug/L	-1	10	
Tin	A	20.833	20.412	5000	4956	ug/L	-1	10	
Titanium	A	948.70	925.16	5000	5166	ug/L	3	10	
Vanadium	A	123.53	120.98	5000	4964	ug/L	-1	10	
Zinc	A	132.72	117.73	5000	4958	ug/L	-1	10	
Aluminum	R	1.2209	1.1822	20000	19570	ug/L	-2	10	
Calcium	R	11.190	9.8000	20000	19920	ug/L	0	10	
Iron	R	7.5970	7.1341	20000	20140	ug/L	1	10	
Magnesium	R	2.0292	1.9128	20000	19900	ug/L	0	10	
Potassium	R	5.1218	4.9867	20000	19340	ug/L	-3	10	
Sodium	R	10.280	9.7300	20000	20010	ug/L	0	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1653402	1.67

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 86228386027
Cal : 86228386001
Standards: S3543

File : 060706ar.txt
Caldate: 07-JUN-2006

IDF : 1.0
Time : 07-JUN-2006 16:07

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	35.368	36.551	5000	5188	ug/L	4	10	
Arsenic	A	20.750	22.022	5000	5246	ug/L	5	10	
Barium	A	399.64	390.88	5000	5209	ug/L	4	10	
Beryllium	A	3391.8	3462.5	500.0	512.4	ug/L	2	10	
Boron	A	189.75	197.59	5000	5141	ug/L	3	10	
Cadmium	A	325.52	330.03	5000	5269	ug/L	5	10	
Chromium	A	81.195	81.150	5000	5121	ug/L	2	10	
Cobalt	A	108.13	106.75	5000	4995	ug/L	0	10	
Copper	A	640.61	628.88	5000	5054	ug/L	1	10	
Lead	A	50.710	49.637	5000	5105	ug/L	2	10	
Manganese	A	866.88	843.57	5000	5120	ug/L	2	10	
Molybdenum	A	37.999	38.750	5000	5133.	ug/L	3	10	
Nickel	A	57.097	56.650	5000	5092	ug/L	2	10	
Selenium	A	21.134	23.145	5000	5251	ug/L	5	10	
Silver	A	394.64	398.38	1000	992.1	ug/L	-1	10	
Thallium	A	18.375	19.093	5000	5066	ug/L	1	10	
Tin	A	20.833	21.183	5000	5144	ug/L	3	10	
Titanium	A	948.70	933.13	5000	5211	ug/L	4	10	
Vanadium	A	123.53	122.36	5000	5020	ug/L	0	10	
Zinc	A	132.72	121.55	5000	5119	ug/L	2	10	
Aluminum	R	1.2209	1.1629	20000	19250	ug/L	-4	10	
Calcium	R	11.190	9.6799	20000	19680	ug/L	-2	10	
Iron	R	7.5970	6.9003	20000	19480	ug/L	-3	10	
Magnesium	R	2.0292	1.8933	20000	19700	ug/L	-2	10	
Potassium	R	5.1218	5.2280	20000	20280	ug/L	1	10	
Sodium	R	10.280	10.100	20000	20770	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1677481	3.15

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 86228386041
Cal : 86228386001
Standards: S3543

File : 060706ar.txt
Caldate: 07-JUN-2006

IDF : 1.0
Time : 07-JUN-2006 17:02

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	35.368	36.467	5000	5176	ug/L	4	10	
Arsenic	A	20.750	21.978	5000	5236	ug/L	5	10	
Barium	A	399.64	391.64	5000	5219	ug/L	4	10	
Beryllium	A	3391.8	3480.0	500.0	515.0	ug/L	3	10	
Boron	A	189.75	198.21	5000	5157	ug/L	3	10	
Cadmium	A	325.52	332.55	5000	5309	ug/L	6	10	
Chromium	A	81.195	80.443	5000	5076	ug/L	2	10	
Cobalt	A	108.13	107.35	5000	5023	ug/L	0	10	
Copper	A	640.61	628.42	5000	5050	ug/L	1	10	
Lead	A	50.710	49.593	5000	5101	ug/L	2	10	
Manganese	A	866.88	844.92	5000	5128	ug/L	3	10	
Molybdenum	A	37.999	38.487	5000	5099	ug/L	2	10	
Nickel	A	57.097	56.358	5000	5065	ug/L	1	10	
Selenium	A	21.134	23.126	5000	5247	ug/L	5	10	
Silver	A	394.64	394.65	1000	982.8	ug/L	-2	10	
Thallium	A	18.375	18.985	5000	5038	ug/L	1	10	
Tin	A	20.833	21.128	5000	5130	ug/L	3	10	
Titanium	A	948.70	933.81	5000	5215	ug/L	4	10	
Vanadium	A	123.53	122.46	5000	5024	ug/L	0	10	
Zinc	A	132.72	122.54	5000	5160	ug/L	3	10	
Aluminum	R	1.2209	1.1255	20000	18630	ug/L	-7	10	
Calcium	R	11.190	9.4163	20000	19140	ug/L	-4	10	
Iron	R	7.5970	6.6377	20000	18740	ug/L	-6	10	
Magnesium	R	2.0292	1.8427	20000	19170	ug/L	-4	10	
Potassium	R	5.1218	5.2757	20000	20460	ug/L	2	10	
Sodium	R	10.280	9.9797	20000	20520	ug/L	3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1677193	3.13

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 86228386055
Cal : 86228386001
Standards: S3543

File : 060706ar.txt
Caldate: 07-JUN-2006

IDF : 1.0
Time : 07-JUN-2006 17:58

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	35.368	36.682	5000	5207	ug/L	4	10	
Arsenic	A	20.750	22.410	5000	5339	ug/L	7	10	
Barium	A	399.64	392.46	5000	5230	ug/L	5	10	
Beryllium	A	3391.8	3489.6	500.0	516.4	ug/L	3	10	
Boron	A	189.75	198.49	5000	5165	ug/L	3	10	
Cadmium	A	325.52	335.31	5000	5353	ug/L	7	10	
Chromium	A	81.195	81.222	5000	5126	ug/L	3	10	
Cobalt	A	108.13	107.76	5000	5042	ug/L	1	10	
Copper	A	640.61	627.83	5000	5045	ug/L	1	10	
Lead	A	50.710	50.284	5000	5172	ug/L	3	10	
Manganese	A	866.88	848.36	5000	5149	ug/L	3	10	
Molybdenum	A	37.999	39.051	5000	5173	ug/L	3	10	
Nickel	A	57.097	56.943	5000	5118	ug/L	2	10	
Selenium	A	21.134	23.509	5000	5334	ug/L	7	10	
Silver	A	394.64	397.47	1000	989.8	ug/L	-1	10	
Thallium	A	18.375	19.180	5000	5089	ug/L	2	10	
Tin	A	20.833	21.390	5000	5194	ug/L	4	10	
Titanium	A	948.70	933.05	5000	5210	ug/L	4	10	
Vanadium	A	123.53	122.44	5000	5023	ug/L	0	10	
Zinc	A	132.72	123.68	5000	5208	ug/L	4	10	
Aluminum	R	1.2209	1.1103	20000	18380	ug/L	-8	10	
Calcium	R	11.190	9.2621	20000	18830	ug/L	-6	10	
Iron	R	7.5970	6.5463	20000	18480	ug/L	-8	10	
Magnesium	R	2.0292	1.8257	20000	18990	ug/L	-5	10	
Potassium	R	5.1218	5.2903	20000	20520	ug/L	3	10	
Sodium	R	10.280	9.9424	20000	20450	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1660237	2.09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6010B

Inst : MET08
Seqnum : 86228386065
Cal : 86228386001
Standards: S3543

File : 060706ar.txt
Caldate: 07-JUN-2006

IDF : 1.0
Time : 07-JUN-2006 18:38

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	35.368	37.722	5000	5354	ug/L	7	10	
Arsenic	A	20.750	22.663	5000	5399	ug/L	8	10	
Barium	A	399.64	394.68	5000	5259	ug/L	5	10	
Beryllium	A	3391.8	3492.7	500.0	516.8	ug/L	3	10	
Boron	A	189.75	199.80	5000	5199	ug/L	4	10	
Cadmium	A	325.52	337.49	5000	5388	ug/L	8	10	
Chromium	A	81.195	82.170	5000	5185	ug/L	4	10	
Cobalt	A	108.13	108.42	5000	5073	ug/L	1	10	
Copper	A	640.61	630.84	5000	5070	ug/L	1	10	
Lead	A	50.710	50.670	5000	5212	ug/L	4	10	
Manganese	A	866.88	850.73	5000	5163	ug/L	3	10	
Molybdenum	A	37.999	39.325	5000	5210	ug/L	4	10	
Nickel	A	57.097	57.752	5000	5191	ug/L	4	10	
Selenium	A	21.134	23.926	5000	5428	ug/L	9	10	
Silver	A	394.64	401.53	1000	999.9	ug/L	0	10	
Thallium	A	18.375	19.364	5000	5138	ug/L	3	10	
Tin	A	20.833	21.744	5000	5280	ug/L	6	10	
Titanium	A	948.70	939.69	5000	5247	ug/L	5	10	
Vanadium	A	123.53	123.04	5000	5048	ug/L	1	10	
Zinc	A	132.72	124.47	5000	5241	ug/L	5	10	
Aluminum	R	1.2209	1.1168	20000	18480	ug/L	-8	10	
Calcium	R	11.190	9.2832	20000	18870	ug/L	-6	10	
Iron	R	7.5970	6.5095	20000	18370	ug/L	-8	10	
Magnesium	R	2.0292	1.8136	20000	18870	ug/L	-6	10	
Potassium	R	5.1218	5.3675	20000	20820	ug/L	4	10	
Sodium	R	10.280	10.095	20000	20760	ug/L	4	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1677566	3.16

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86228386008 File : 060706ar.txt Time : 07-JUN-2006 14:59
Cal : 86228386001 Caldate: 07-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	ND	5.000	0.4303	ug/L	
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	[0.7174]	5.000	0.4217	ug/L	!ib
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1645781	1.20

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08
Seqnum : 86228386029 File : 060706ar.txt
Cal : 86228386001 Caldate: 07-JUN-2006

IDF : 1.0
Time : 07-JUN-2006 16:13

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[0.8011]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1597558	-1.76

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86228386043 File : 060706ar.txt Time : 07-JUN-2006 17:08
Cal : 86228386001 Caldate: 07-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[1.490]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1652232	1.60

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86228386057 File : 060706ar.txt Time : 07-JUN-2006 18:04
Cal : 86228386001 Caldate: 07-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[1.298]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	ND	5.000	0.9317	ug/L	
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1655139	1.78

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86228386067 File : 060706ar.txt Time : 07-JUN-2006 18:44
Cal : 86228386001 Caldate: 07-JUN-2006

Analyte	Ch	Quant	RL	MDL	Units	Flags
Antimony	A	ND	5.000	3.639	ug/L	
Arsenic	A	ND	5.000	1.047	ug/L	
Barium	A	ND	5.000	0.4129	ug/L	
Beryllium	A	ND	2.000	0.2089	ug/L	
Boron	A	ND	100.0	13.57	ug/L	
Cadmium	A	ND	5.000	0.5500	ug/L	
Chromium	A	ND	5.000	0.5564	ug/L	
Cobalt	A	ND	5.000	0.4605	ug/L	
Copper	A	ND	5.000	0.7122	ug/L	
Lead	A	ND	3.000	0.5698	ug/L	
Manganese	A	ND	5.000	0.5991	ug/L	
Molybdenum	A	[1.340]	5.000	0.4303	ug/L	!ib
Nickel	A	ND	5.000	0.9182	ug/L	
Selenium	A	ND	5.000	1.575	ug/L	
Silver	A	ND	5.000	1.403	ug/L	
Thallium	A	[0.9716]	5.000	0.9317	ug/L	!ib
Tin	A	ND	40.00	4.403	ug/L	
Titanium	A	ND	10.00	1.040	ug/L	
Vanadium	A	ND	5.000	0.4217	ug/L	
Zinc	A	ND	20.00	1.533	ug/L	
Aluminum	R	ND	100.0	42.49	ug/L	
Calcium	R	ND	200.0	50.64	ug/L	
Iron	R	ND	100.0	17.23	ug/L	
Magnesium	R	ND	200.0	14.50	ug/L	
Potassium	R	ND	500.0	128.8	ug/L	
Sodium	R	ND	500.0	39.23	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1666723	2.49

!=warning ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86228386009 File : 060706ar.txt Time : 07-JUN-2006 15:03
Cal : 86228386001 Caldate: 07-JUN-2006
Standards: S3254

Analyte	Ch	Quant	RL	Units	Flags
Antimony	A	[-4.527]	5.000	ug/L	
Arsenic	A	[0.7077]	5.000	ug/L	
Barium	A	[1.589]	5.000	ug/L	
Beryllium	A	[-0.1432]	2.000	ug/L	
Boron	A	[-3.684]	100.0	ug/L	
Cadmium	A	[2.603]	5.000	ug/L	
Cobalt	A	[-2.164]	5.000	ug/L	
Lead	A	[-1.357]	3.000	ug/L	
Molybdenum	A	[-0.6419]	5.000	ug/L	
Selenium	A	[0.3482]	5.000	ug/L	
Silver	A	[-1.234]	5.000	ug/L	
Thallium	A	[-2.642]	5.000	ug/L	
Tin	A	[-3.329]	40.00	ug/L	
Zinc	A	[11.15]	20.00	ug/L	
Potassium	R	[53.55]	500.0	ug/L	
Sodium	R	[17.66]	500.0	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19480	ug/L	97
Copper	A	20000	21690	ug/L	108
Manganese	A	20000	18550	ug/L	93
Nickel	A	20000	19010	ug/L	95
Titanium	A	20000	17230	ug/L	86
Vanadium	A	20000	20680	ug/L	103
Aluminum	R	500000	520600	ug/L	104
Calcium	R	500000	513900	ug/L	103
Iron	R	200000	200900	ug/L	100
Magnesium	R	500000	524600	ug/L	105

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1518949	-6.60

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86228386010 File : 060706ar.txt Time : 07-JUN-2006 15:14
Cal : 86228386001 Caldate: 07-JUN-2006
Standards: S3527

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	513.7	ug/L	3	20	
Arsenic	A	500.0	522.0	ug/L	4	20	
Barium	A	500.0	533.7	ug/L	7	20	
Beryllium	A	500.0	518.2	ug/L	4	20	
Cadmium	A	1000	1010	ug/L	1	20	
Chromium	A	500.0	523.5	ug/L	5	20	
Cobalt	A	500.0	477.6	ug/L	-4	20	
Copper	A	500.0	531.3	ug/L	6	20	
Lead	A	1000	973.4	ug/L	-3	20	
Manganese	A	500.0	525.3	ug/L	5	20	
Molybdenum	A	500.0	528.5	ug/L	6	20	
Nickel	A	1000	979.0	ug/L	-2	20	
Selenium	A	500.0	501.7	ug/L	0	20	
Silver	A	1000	1091	ug/L	9	20	
Thallium	A	500.0	481.2	ug/L	-4	20	
Titanium	A	20000	19990	ug/L	0		
Vanadium	A	500.0	550.0	ug/L	10	20	
Zinc	A	1000	967.2	ug/L	-3	20	
Aluminum	R	500000	543400	ug/L	9		
Calcium	R	500000	518500	ug/L	4		
Iron	R	200000	201600	ug/L	1		
Magnesium	R	500000	525000	ug/L	5		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1486390	-8.60

295 A

REVISED

86228386010

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6010B

Inst : MET08 IDF : 1.0
Seqnum : 86228386064 File : 060706ar.txt Time : 07-JUN-2006 18:35
Cal : 86228386001 Caldate: 07-JUN-2006
Standards: S3527

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Antimony	A	500.0	539.2	ug/L	8	20	
Arsenic	A	500.0	556.5	ug/L	11	20	
Barium	A	500.0	542.2	ug/L	8	20	
Beryllium	A	500.0	527.3	ug/L	5	20	
Cadmium	A	1000	1055	ug/L	5	20	
Chromium	A	500.0	531.7	ug/L	6	20	
Cobalt	A	500.0	491.4	ug/L	-2	20	
Copper	A	500.0	530.2	ug/L	6	20	
Lead	A	1000	996.2	ug/L	0	20	
Manganese	A	500.0	534.4	ug/L	7	20	
Molybdenum	A	500.0	537.0	ug/L	7	20	
Nickel	A	1000	1007	ug/L	1	20	
Selenium	A	500.0	515.3	ug/L	3	20	
Silver	A	1000	1095	ug/L	10	20	
Thallium	A	500.0	484.1	ug/L	-3	20	
Titanium	A	20000	20020	ug/L	0		
Vanadium	A	500.0	553.3	ug/L	11	20	
Zinc	A	1000	1014	ug/L	1	20	
Aluminum	R	500000	494900	ug/L	-1		
Calcium	R	500000	470700	ug/L	-6		
Iron	R	200000	178800	ug/L	-11		
Magnesium	R	500000	484000	ug/L	-3		

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	1626250	1519613	-6.56

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86228386 Instrument: MET08 PE ICP Begun: 07-JUN-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	060706ar	ICALBLK				07-JUN-2006 14:26	1.0	1.0					
002	060706ar	ICAL	CRIM08			07-JUN-2006 14:30	1.0	1.0				1	
003	060706ar	ICAL	CS100			07-JUN-2006 14:34	1.0	1.0				2	
004	060706ar	ICAL	CS1K			07-JUN-2006 14:37	1.0	1.0				3	
005	060706ar	ICAL	CS10K			07-JUN-2006 14:40	1.0	1.0				4	
006	060706ar	ICAL	CS100K			07-JUN-2006 14:42	1.0	1.0				5	
007	060706ar	ICV				07-JUN-2006 14:45	1.0	1.0			5000	6	
008	060706ar	ICB				07-JUN-2006 14:59	1.0	1.0			5000		
009	060706ar	ICSA				07-JUN-2006 15:03	1.0	1.0			5000	7	10:MG=524576
010	060706ar	ICSAB				07-JUN-2006 15:14	1.0	1.0			5000	8	5:AL=543439
011	060706ar	BLANK	QC342089	113957	Filtra	07-JUN-2006 15:17	1.0	1.0			5000		
012	060706ar	BS	QC342090	113957	Filtra	07-JUN-2006 15:21	1.0	1.0			5000		
013	060706ar	X	QC342091	113957	Filtra	07-JUN-2006 15:24	1.0	1.0		1	5000		
014	060706ar	X	QC342091	113957	Filtra	07-JUN-2006 15:27	1.0						
015	060706ar	X	QC342091	113957	Filtra	07-JUN-2006 15:30	1.0	1.0	1	1	5000		297
016	060706ar	X	QC342091	113957	Filtra	07-JUN-2006 15:33	1.0	1.0	1	1	5000		
017	060706ar	X	QC342091	113957	Filtra	07-JUN-2006 15:36	1.0						
018	060706ar	X	QC342091	113957	Filtra	07-JUN-2006 15:40	1.0						
019	060706ar	MSS	187112-002	113957	Filtra	07-JUN-2006 15:44	1.0	1.0			5000		
020	060706ar	MS	QC342092	113957	Filtra	07-JUN-2006 15:48	1.0	1.0		1	5000		
021	060706ar	MSD	QC342093	113957	Filtra	07-JUN-2006 15:50	1.0	1.0		1	5000		
022	060706ar	SER	QC342094	113957	Filtra	07-JUN-2006 15:52	5.0	1.0			5000		
023	060706ar	MS	QC342092	113957	Filtra	07-JUN-2006 15:57	1.0	1.0			5000		
024	060706ar	MSD	QC342093	113957	Filtra	07-JUN-2006 15:59	1.0	1.0		1	5000		
025	060706ar	PDS	QC342095	113957	Filtra	07-JUN-2006 16:01	1.0	1.0			5000	9 10	
026	060706ar	X	RINSE			07-JUN-2006 16:03	1.0						
027	060706ar	CCV				07-JUN-2006 16:07	1.0	1.0			5000	11	
028	060706ar	X	FLUSH			07-JUN-2006 16:10	1.0						
029	060706ar	CCB				07-JUN-2006 16:13	1.0	1.0			5000		
030	060706ar	SAMPLE	187112-003	113957	Filtra	07-JUN-2006 16:17	1.0	1.0	3		5000		3:MG=360360
031	060706ar	SAMPLE	187112-004	113957	Filtra	07-JUN-2006 16:22	1.0	1.0	1		5000		1:MG=209406

Stds used: 1=S3580 2=S3582 3=S3581 4=S3583 5=S3584 6=S3541 7=S3254 8=S3527 9=S1792 10=S1793 11=S3543

Analyst: AM Date: 6/7/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86228386 Instrument: MET08 PE ICP Begun: 07-JUN-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	060706ar	SAMPLE	187112-005	113957	Water	07-JUN-2006 16:26	1.0	1.0			5000		1:NA=147912
033	060706ar	SAMPLE	187112-006	113957	Filtra	07-JUN-2006 16:29	1.0	1.0	1		5000		1:NA=225061
034	060706ar	SAMPLE	187112-007	113957	Filtra	07-JUN-2006 16:33	1.0	1.0	1		5000		1:NA=230883
035	060706ar	SAMPLE	187112-008	113957	Filtra	07-JUN-2006 16:37	1.0	1.0	1		5000		1:NA=212196
036	060706ar	SAMPLE	187112-009	113957	Filtra	07-JUN-2006 16:42	1.0	1.0	2		5000		1:NA=252767
037	060706ar	SAMPLE	187112-009	113957	Filtra	07-JUN-2006 16:46	1.0	1.0	1		5000		1:NA=249409
038	060706ar	SAMPLE	187112-010	113957	Filtra	07-JUN-2006 16:50	1.0	1.0	1		5000		1:NA=131822
039	060706ar	SAMPLE	187112-011	113957	Filtra	07-JUN-2006 16:54	1.0	1.0			5000		
040	060706ar	X	RINSE			07-JUN-2006 16:58	1.0						
041	060706ar	CCV				07-JUN-2006 17:02	1.0	1.0			5000	11	
042	060706ar	X	FLUSH			07-JUN-2006 17:05	1.0						
043	060706ar	CCB				07-JUN-2006 17:08	1.0	1.0			5000		
044	060706ar	SAMPLE	187112-012	113957	Filtra	07-JUN-2006 17:12	1.0	1.0	1		5000		1:NA=221138
045	060706ar	SAMPLE	187112-013	113957	Water	07-JUN-2006 17:17	1.0	1.0			5000		
046	060706ar	SAMPLE	187137-001	113957	Filtra	07-JUN-2006 17:21	1.0	1.0			5000		
047	060706ar	SAMPLE	187020-017	113957	Filtra	07-JUN-2006 17:25	1.0	1.0			5000		
048	060706ar	SAMPLE	187020-018	113957	Filtra	07-JUN-2006 17:29	1.0	1.0			5000		
049	060706ar	SAMPLE	187020-019	113957	Filtra	07-JUN-2006 17:33	1.0	1.0			5000		
050	060706ar	SAMPLE	187020-020	113957	Filtra	07-JUN-2006 17:37	1.0	1.0			5000		
051	060706ar	SAMPLE	187112-003	113957	Filtra	07-JUN-2006 17:41	10.0	1.0			5000		
052	060706ar	SAMPLE	187112-004	113957	Filtra	07-JUN-2006 17:46	5.0	1.0			5000		
053	060706ar	SAMPLE	187112-006	113957	Filtra	07-JUN-2006 17:50	5.0	1.0			5000		
054	060706ar	X	RINSE			07-JUN-2006 17:54	1.0						
055	060706ar	CCV				07-JUN-2006 17:58	1.0	1.0			5000	11	
056	060706ar	X	FLUSH			07-JUN-2006 18:00	1.0						
057	060706ar	CCB				07-JUN-2006 18:04	1.0	1.0			5000		
058	060706ar	SAMPLE	187112-007	113957	Filtra	07-JUN-2006 18:08	5.0	1.0			5000		
059	060706ar	SAMPLE	187112-008	113957	Filtra	07-JUN-2006 18:12	5.0	1.0			5000		
060	060706ar	SAMPLE	187112-009	113957	Filtra	07-JUN-2006 18:16	5.0	1.0			5000		
061	060706ar	SAMPLE	187112-010	113957	Filtra	07-JUN-2006 18:21	5.0	1.0			5000		
062	060706ar	SAMPLE	187112-012	113957	Filtra	07-JUN-2006 18:25	5.0	1.0			5000		

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Stds used: 1=S3580 2=S3582 3=S3581 4=S3583 5=S3584 6=S3541 7=S3254 8=S3527 9=S1792 10=S1793 11=S3543

Analyst: [signature] Date: 6/7/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 86228386 Instrument: MET08 PE ICP Begun: 07-JUN-2006
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
063	060706ar	BSD	QC342091	113957	Filtra	07-JUN-2006 18:29	1.0	1.0	5000		
064	060706ar	ICSAB				07-JUN-2006 18:35	1.0	1.0	5000	8	5:AL=494873
065	060706ar	CCV				07-JUN-2006 18:38	1.0	1.0	5000	11	
066	060706ar	X	FLUSH			07-JUN-2006 18:40	1.0				
067	060706ar	CCB				07-JUN-2006 18:44	1.0	1.0	5000		

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Stds used: 1=S3580 2=S3582 3=S3581 4=S3583 5=S3584 6=S3541 7=S3254 8=S3527 9=S1792 10=S1793 11=S3543

Analyst: AH Date: 6/7/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56228694001
Units : ug/L

Date : 07-JUN-2006 19:46
X Axis : R

Reviewer: ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	f0719004	56228694004	CS1	07-JUN-2006 19:51	S3608
L2	f0719005	56228694005	CS2	07-JUN-2006 19:57	S3609
L3	f0719006	56228694006	CS3	07-JUN-2006 20:03	S3610
L4	f0719007	56228694007	CS4	07-JUN-2006 20:08	S3611
L5	f0719008	56228694008	CS5	07-JUN-2006 20:14	S3605
L6	f0719009	56228694009	CS6	07-JUN-2006 20:19	S3606

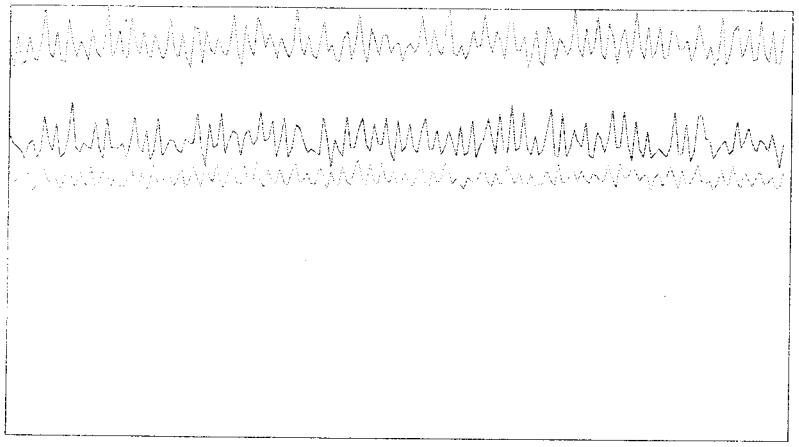
Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		3.2307	1.9676	0.5528	0.4369	0.4865	BLNK	-2.7924	2.13381		1.3349	0.996	0.995	
Antimony	0.2660	0.2441	0.2175	0.1986	0.2009	0.1997	BLNK	-0.0832	5.00444		0.2211	1.000	0.995	
Arsenic		0.3776	0.4483	0.3695	0.3636	0.3605	BLNK	-0.1786	2.77213		0.3839	1.000	0.995	
Barium	0.0949	0.1022	0.0888	0.0838	0.0834	0.0834	BLNK	-0.0593	11.9986		0.0894	1.000	0.995	
Beryllium	0.1048	0.1063	0.1021	0.0954	0.0980	0.0988	BLNK	-0.0387	10.1401		0.1009	1.000	0.995	
Cadmium	0.6145	0.4633	0.4130	0.3770	0.3494	0.3358	BLNK	-0.1651	2.95629		0.4255	1.000	0.995	
Calcium		0.0263	0.0266	0.0158	0.0159	0.0158	BLNK	-31.445	63.3776		0.0201	1.000	0.995	300
Chromium		8.1442	5.5257	3.2547	3.0112	3.1506	BLNK	-0.7195	0.32163		4.6173	0.999	0.995	
Cobalt	3.6834	3.6374	3.4360	3.3171	3.2604	3.4787	BLNK	-0.0211	0.29118		3.4688	0.999	0.995	
Copper		1.2606	1.1459	0.8091	0.7592	0.7491	BLNK	-0.3772	1.33425		0.9448	1.000	0.995	
Iron		0.1371	0.1087	0.0812	0.0854	0.0828	BLNK	-32.811	12.0316		0.0990	1.000	0.995	
Lead	1.0326	0.9226	0.8578	0.8281	0.8434	0.8255	BLNK	-0.0540	1.20653		0.8850	1.000	0.995	
Magnesium		0.0554	0.0539	0.0522	0.0554	0.0568	BLNK	-1.5279	17.6975		0.0547	1.000	0.995	
Manganese	5.5251	4.8238	4.4929	3.9287	3.8499	4.0757	BLNK	-0.0795	0.24824		4.4493	0.999	0.995	
Molybdenum		0.8629	0.8396	0.7586	0.7390	0.7333	BLNK	-0.0454	1.36187		0.7867	1.000	0.995	
Nickel	1.5247	1.0962	0.9684	0.7507	0.7087	0.6965	BLNK	-0.2572	1.43282		0.9575	1.000	0.995	
Potassium		1.4815	1.0791	0.5745	0.5161	0.5159	BLNK	-92.625	1.94879		0.8334	1.000	0.995	
Selenium		0.0353	0.0388	0.0287	0.0282	0.0274	BLNK	-0.3183	36.3998		0.0317	1.000	0.995	
Silver	1.9781	1.8418	1.7996	1.7082	1.6894	1.6327	BLNK	-0.0225	0.60828		1.7750	1.000	0.995	
Sodium		0.9656	0.8690	0.6202	0.6055	0.6228	BLNK	-28.542	1.61750		0.7366	1.000	0.995	
Thallium		0.6750	0.6273	0.5931	0.6106	0.6521	BLNK	-0.0550	1.55404		0.6316	0.999	0.995	
Vanadium		5.1039	4.3008	3.5829	3.5083	3.8269	BLNK	-0.1896	0.26607		4.0646	0.998	0.995	
Zinc		2.4239	2.6049	0.4935	0.4014	0.3881	BLNK	-2.4289	2.59599		1.2624	0.999	0.995	

Instrument amount = a0 + response * a1 + response^2 * a2; BLNK=Y=aX+[blank]

56228694001

Tune Report

Tune File : Autotune.u



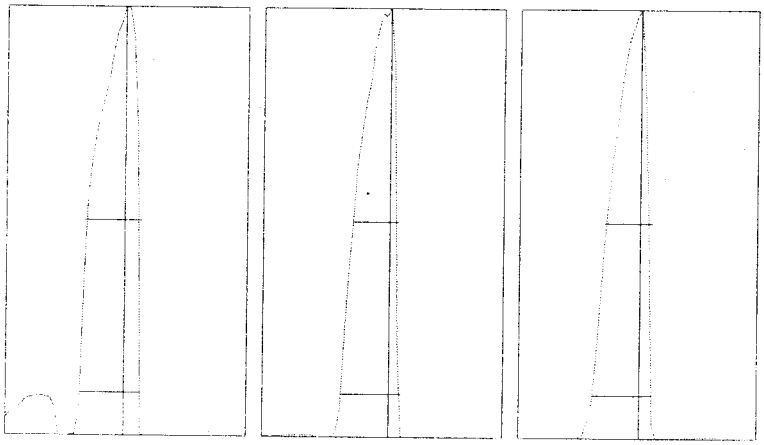
m/z:	7	89	205
Range:	20,000	20,000	20,000
Count:	13,839	19,179	12,495
Mean:	13835.5	18301.9	12133.5
RSD%:	4.88	3.90	3.09
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.30%
Doubly Charged:	70/140	1.03%

Background:

m/z:	7	89	205
Cps:	25.6	11.2	10.7



m/z:	7	89	205
Height:	13,856	18,535	12,199
Axis:	7.00	89.10	205.05
W-50%:	0.70	0.55	0.60
W-10%:	0.7500	0.7500	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1300 W	Extract 1:	-150 V	AMU Gain:	131
RF Matching:	1.7 V	Extract 2:	-110 V	AMU Offset:	125
Smpl Depth:	8 mm	Einzel 1,3:	-160 V	Axis Gain:	0.9993
Torch-H:	-0.1 mm	Einzel 2:	7 V	Axis Offset:	-0.08
Torch-V:	0.2 mm	Omega Bias:	-55 V	QP Bias:	1.6 V
Carrier Gas:	1.1 L/min	Omega (+):	5 V		
Makeup Gas:	0 L/min	Omega (-):	-5 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	6 V	Discriminator:	9.1 mV
PeriPump1:	0.1 rps	Plate Bias:	-5 V	Analog HV:	1790 V
PeriPump2:	--- rps			Pulse HV:	1450 V
S/C Temp:	2 degC				

Generated : Jun 07, 2006 17:31:28
Printed : Jun 07, 2006 17:31:34

P/A Factor Tuning Report

Acquired:Jun 7 2006 05:34 pm

Mass[amu]	Element	P/A Factor
6	Li	0.077696
9	Be	0.085086
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.099169
39	K	Sensitivity too high
43	Ca	0.099228
44	Ca	Sensitivity too high
45	Sc	0.098354
51	V	0.102376
52	Cr	0.102935
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.104437
57	Fe	0.105896
59	Co	0.105048
60	Ni	0.101359
63	Cu	0.104057
65	Cu	0.102023
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.100662
95	Mo	Sensitivity too low
98	Mo	0.100911
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.101894
111	Cd	Sensitivity too low
114	Cd	0.101294
115	In	0.101565
118	(In)	Sensitivity too high
121	Sb	0.102941
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.103586
166	Er	Sensitivity too low

205	Tl	0.104413
206	(Pb)	0.102684
207	(Pb)	0.102825
208	Pb	0.104010
209	Bi	0.102423

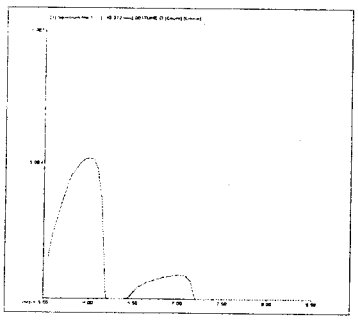
===Detector Parameters===
Discriminator: 9.1 mV
Analog HV: 1790 V
Pulse HV: 1450 V

6020 QC Tune Report

Data File:	C:\ICPCHEM\1\DATA\06F0719b.B\001TUNE.D
Date Acquired:	Jun 7 2006 07:34 pm
Acq. Method:	TN6020.M
Operator:	
Sample Name:	tun,s3622
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

Element	Actual	Required	Flag
7 Li	1.27	5.00	
59 Co	2.01	5.00	
115 In	1.88	5.00	
205 Tl	1.12	5.00	



7 Li

Mass Calib.

Actual: 7.00

Required: 6.90 - 7.10

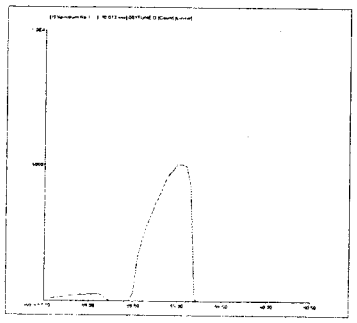
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



59 Co

Mass Calib.

Actual: 59.00

Required: 58.90 - 59.10

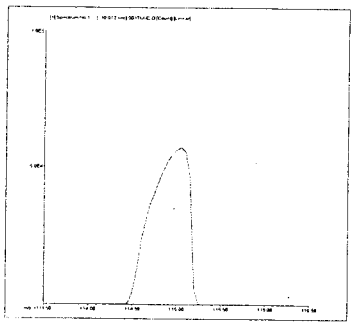
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



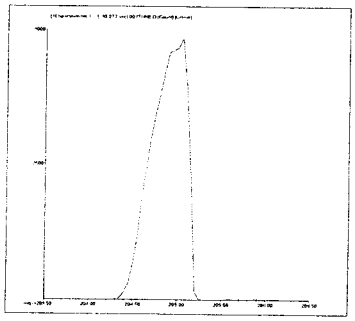
115 In

Mass Calib.

Actual: 115.05
Required: 114.90 - 115.10
Flag:

Peak Width

Actual: 0.60
Required: 0.90
Flag:



205 Tl

Mass Calib.

Actual: 205.05
Required: 204.90 - 205.10
Flag:

Peak Width

Actual: 0.60
Required: 0.90
Flag:

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06F0719b.B\003CAL
Date Acquired:	Jun 7 2006 07:46 pm
Operator:	
Sample Name:	std-blk
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\DATA\06D0108A.B\602001
Last Cal Update:	Jun 07 2006 06:29 pm
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	566834.69	M	7763.00	1.37
9	Be	43.33	P	12.02	27.74
23	Na	148197.80	P	990.40	0.67
26	Mg	725.56	P	99.57	13.72
27	Al	10991.11	P	243.30	2.21
39	K	399184.41	P	3644.00	0.91
44	Ca	4166.58	P	148.30	3.56
45	Sc	419934.41	P	3610.00	0.86
51	V	1136.77	P	257.70	22.67
52	Cr	3570.00	P	143.60	4.02
55	Mn	511.11	P	28.35	5.55
57	Fe	4352.22	P	82.62	1.90
59	Co	115.56	P	22.19	19.20
60	Ni	286.67	P	35.12	12.25
65	Cu	451.11	P	18.36	4.07
66	Zn	1492.22	P	131.40	8.81
72	Ge	79792.22	P	837.30	1.05
75	As	103.26	P	104.60	101.29
82	Se	14.00	P	10.91	77.93
95	Mo	53.33	P	28.48	53.40
109	Ag	58.89	P	5.09	8.65
111	Cd	88.98	P	22.65	25.45
115	In	561698.19	P	5106.00	0.91
121	Sb	186.67	P	3.33	1.79
137	Ba	55.56	P	13.47	24.25
205	Tl	282.22	P	22.19	7.86
208	Pb	356.67	P	23.09	6.47
209	Bi	398573.31	P	5252.00	1.32

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06F0719b.B\004CALI.D\004CALI.D#
Date Acquired:	Jun 7 2006 07:51 pm
Operator:	
Sample Name:	cs1,s3608
Misc Info:	
Vial Number:	1102
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update:	Jun 07 2006 07:48 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	576569.50	M	9472.00	1.64
9 Be	302.22	P	30.97	10.25
23 Na	278900.00	P	2959.00	1.06
26 Mg	12621.11	P	118.80	0.94
27 Al	12966.67	P	25.17	0.19
39 K	541807.63	M	34430.00	6.35
44 Ca	8013.98	P	170.50	2.13
45 Sc	425382.19	P	4240.00	1.00
51 V	2603.53	P	180.50	6.93
52 Cr	5074.44	P	214.20	4.22
55 Mn	2225.56	P	44.76	2.01
57 Fe	7784.44	P	294.20	3.78
59 Co	1483.33	P	49.78	3.36
60 Ni	614.44	P	48.23	7.85
65 Cu	862.17	P	5.09	0.59
66 Zn	2410.00	P	85.05	3.53
72 Ge	80556.67	P	885.30	1.10
75 As	249.83	P	104.70	41.91
82 Se	30.00	P	13.61	45.37
95 Mo	377.78	P	13.47	3.57
109 Ag	796.67	P	5.77	0.72
111 Cd	247.47	P	8.58	3.47
115 In	566485.69	P	4626.00	0.82
121 Sb	753.33	P	20.82	2.76
137 Ba	268.89	P	30.06	11.18
205 Tl	1461.11	P	94.30	6.45
208 Pb	2074.44	P	40.32	1.94
209 Bi	401897.81	P	4833.00	1.20

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	576569.44	1.64	566834.69	101.7	80 - 120	

45	Sc	425382.19	1.00	419934.44	101.3	80 - 120
72	Ge	80556.66	1.10	79792.23	101.0	80 - 120
115	In	566485.63	0.82	561698.13	100.9	80 - 120
209	Bi	401897.78	1.20	398573.31	100.8	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0719b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**

ISTD: **Pass**

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06F0719b.B\005CALI.D\005CALI.D#
Date Acquired:	Jun 7 2006 07:57 pm
Operator:	
Sample Name:	cs2,s3609
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update:	Jun 07 2006 07:53 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	572863.00	M	7017.00	1.22
9	Be	608.89	P	51.78	8.50
23	Na	417624.41	P	3207.00	0.77
26	Mg	23974.44	P	103.10	0.43
27	Al	13972.22	P	235.00	1.68
39	K	640803.31	P	3942.00	0.62
44	Ca	11354.31	P	155.80	1.37
45	Sc	432543.31	P	4648.00	1.07
51	V	4151.57	P	371.80	8.96
52	Cr	6628.89	P	192.50	2.90
55	Mn	3925.55	P	118.80	3.03
57	Fe	11162.22	P	299.50	2.68
59	Co	2960.00	P	123.30	4.17
60	Ni	892.22	P	12.62	1.41
65	Cu	1025.45	P	102.90	10.04
66	Zn	1972.22	P	71.67	3.63
72	Ge	81387.33	P	822.70	1.01
75	As	307.59	P	61.39	19.96
82	Se	28.67	P	8.11	28.29
95	Mo	702.22	P	23.65	3.37
109	Ag	1498.89	P	47.88	3.19
111	Cd	377.05	P	43.05	11.42
115	In	572119.63	P	4326.00	0.76
121	Sb	1396.67	P	63.60	4.55
137	Ba	584.44	P	39.49	6.76
205	Tl	2717.78	P	111.10	4.09
208	Pb	3716.67	P	166.00	4.47
209	Bi	402750.00	P	5431.00	1.35

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6	Li	572863.00	1.22	566834.69	101.1	80 -	120	

45	Sc	432543.31	1.07	419934.44	103.0	80 - 120
72	Ge	81387.34	1.01	79792.23	102.0	80 - 120
115	In	572119.63	0.76	561698.13	101.9	80 - 120
209	Bi	402749.97	1.35	398573.31	101.0	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0719b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06F0719b.B\006CALI.D\006CALI.D#
Date Acquired:	Jun 7 2006 08:03 pm
Operator:	
Sample Name:	cs3,s3610
Misc Info:	
Vial Number:	1104
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update:	Jun 07 2006 07:59 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	578700.00	P	3118.00	0.54
9 Be	1181.11	P	58.53	4.96
23 Na	759903.31	A	2202.00	0.29
26 Mg	47130.00	P	689.60	1.46
27 Al	17206.67	P	151.70	0.88
39 K	943702.69	A	4847.00	0.51
44 Ca	23278.36	P	356.40	1.53
45 Sc	437296.59	P	5692.00	1.30
51 V	7073.35	P	591.60	8.36
52 Cr	9087.78	P	132.40	1.46
55 Mn	7388.89	P	79.05	1.07
57 Fe	17877.78	P	76.18	0.43
59 Co	5650.00	P	78.81	1.39
60 Ni	1592.22	P	90.33	5.67
65 Cu	1884.24	P	39.77	2.11
66 Zn	4284.44	P	111.90	2.61
72 Ge	82229.33	P	731.70	0.89
75 As	737.49	P	104.50	14.17
82 Se	63.78	P	14.79	23.19
95 Mo	1381.11	P	89.53	6.48
109 Ag	2958.89	P	137.10	4.63
111 Cd	679.41	P	41.26	6.07
115 In	575737.19	P	3768.00	0.65
121 Sb	2504.44	P	63.80	2.55
137 Ba	1022.22	P	63.01	6.16
205 Tl	5082.22	P	91.67	1.80
208 Pb	6948.89	P	96.28	1.39
209 Bi	405042.19	P	4338.00	1.07

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	578700.00	0.54	566834.69	102.1	80 - 120	

45	Sc	437296.66	1.30	419934.44	104.1	80 -	120
72	Ge	82229.34	0.89	79792.23	103.1	80 -	120
115	In	575737.19	0.65	561698.13	102.5	80 -	120
209	Bi	405042.19	1.07	398573.31	101.6	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0719b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06F0719b.B\007CALI.D\007CALI.D#
Date Acquired:	Jun 7 2006 08:08 pm
Operator:	
Sample Name:	cs4,s3611
Misc Info:	
Vial Number:	1105
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update:	Jun 07 2006 08:04 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	598055.13	M	12780.00	2.14
9	Be	11412.22	P	224.20	1.96
23	Na	5513565.00	A	63470.00	1.15
26	Mg	464054.41	P	3350.00	0.72
27	Al	49154.44	P	1542.00	3.14
39	K	5107826.00	A	36120.00	0.71
44	Ca	140889.91	P	1278.00	0.91
45	Sc	444538.91	P	5260.00	1.18
51	V	60026.15	P	1066.00	1.78
52	Cr	54527.77	P	935.70	1.72
55	Mn	65816.66	P	629.80	0.96
57	Fe	135955.59	P	750.40	0.55
59	Co	55572.22	P	643.60	1.16
60	Ni	12576.67	P	299.50	2.38
65	Cu	13555.74	P	202.30	1.49
66	Zn	8266.67	P	12.02	0.15
72	Ge	83763.33	P	538.60	0.64
75	As	6191.04	P	97.31	1.57
82	Se	480.44	P	3.36	0.70
95	Mo	12707.78	P	170.60	1.34
109	Ag	28617.78	P	644.80	2.25
111	Cd	6315.62	P	100.10	1.59
115	In	586156.81	P	4542.00	0.77
121	Sb	23281.11	P	414.60	1.78
137	Ba	9825.55	P	302.60	3.08
205	Tl	48463.33	P	733.60	1.51
208	Pb	67657.78	P	883.60	1.31
209	Bi	408522.19	P	4772.00	1.17

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6	Li	598055.13	2.14	566834.69	105.5	80 -	120	

45	Sc	444538.88	1.18	419934.44	105.9	80 - 120
72	Ge	83763.34	0.64	79792.23	105.0	80 - 120
115	In	586156.81	0.77	561698.13	104.4	80 - 120
209	Bi	408522.19	1.17	398573.31	102.5	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0719b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0719b.B\008CALI.D\008CALI.D#
Date Acquired: Jun 7 2006 08:14 pm
Operator:
Sample Name: cs5,s3605
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 07 2006 08:10 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	594585.00	M	9810.00	1.65
9	Be	116551.10	P	930.30	0.80
23	Na	53633168.00	A	163300.00	0.30
26	Mg	4910640.00	A	54330.00	1.11
27	Al	387060.00	P	6537.00	1.69
39	K	45718680.00	A	256900.00	0.56
44	Ca	1411702.00	A	15360.00	1.09
45	Sc	442970.00	P	6194.00	1.40
51	V	591821.31	P	7286.00	1.23
52	Cr	507970.00	P	4390.00	0.86
55	Mn	649466.63	P	8100.00	1.25
57	Fe	1440460.00	A	5546.00	0.39
59	Co	550003.31	P	4610.00	0.84
60	Ni	119550.00	P	1266.00	1.06
65	Cu	128075.70	P	1662.00	1.30
66	Zn	67713.33	P	553.40	0.82
72	Ge	84346.22	P	638.80	0.76
75	As	61331.65	P	959.80	1.56
82	Se	4758.67	P	94.37	1.98
95	Mo	124654.40	P	623.20	0.50
109	Ag	284994.41	P	2596.00	0.91
111	Cd	58943.06	P	675.70	1.15
115	In	570742.31	P	5570.00	0.98
121	Sb	229340.00	P	1870.00	0.82
137	Ba	95257.78	P	1427.00	1.50
205	Tl	488054.41	P	5902.00	1.21
208	Pb	674096.63	P	4945.00	0.73
209	Bi	399681.09	P	7482.00	1.87

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	594585.00	1.65	566834.69	104.9	80 - 120	

45	Sc	442969.97	1.40	419934.44	105.5	80 -	120
72	Ge	84346.23	0.76	79792.23	105.7	80 -	120
115	In	570742.31	0.98	561698.13	101.6	80 -	120
209	Bi	399681.09	1.87	398573.31	100.3	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0719b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**

ISTD: **Pass**

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06F0719b.B\009CALI.D\009CALI.D#
Date Acquired:	Jun 7 2006 08:19 pm
Operator:	
Sample Name:	cs6,s3606
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update:	Jun 07 2006 08:15 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	579510.88	M	5038.00	0.87
9	Be	229031.09	P	1644.00	0.72
23	Na	106531600.00	A	1376000.00	1.29
26	Mg	9714448.00	A	92910.00	0.96
27	Al	832178.00	A	14240.00	1.71
39	K	88255664.00	A	285000.00	0.32
44	Ca	2698938.00	A	8488.00	0.31
45	Sc	427686.59	P	3963.00	0.93
51	V	1267010.00	A	3752.00	0.30
52	Cr	1043105.00	A	7190.00	0.69
55	Mn	1349364.00	A	1291.00	0.10
57	Fe	2740086.00	A	25140.00	0.92
59	Co	1151725.00	A	6014.00	0.52
60	Ni	230597.80	P	2627.00	1.14
65	Cu	248006.80	P	1796.00	0.72
66	Zn	128493.30	P	784.00	0.61
72	Ge	82770.00	P	282.10	0.34
75	As	119354.20	P	432.80	0.36
82	Se	9056.00	P	101.50	1.12
95	Mo	242783.30	P	697.80	0.29
109	Ag	540565.63	P	3145.00	0.58
111	Cd	111180.00	P	409.60	0.37
115	In	547610.69	P	4255.00	0.78
121	Sb	437377.69	P	1710.00	0.39
137	Ba	182580.00	P	1341.00	0.73
205	Tl	997395.31	A	10040.00	1.01
208	Pb	1262645.00	P	4951.00	0.39
209	Bi	382378.91	P	1020.00	0.27

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6	Li	579510.94	0.87	566834.69	102.2	80 -	120	

45	Sc	427686.66	0.93	419934.44	101.8	80 -	120
72	Ge	82770.00	0.34	79792.23	103.7	80 -	120
115	In	547610.69	0.78	561698.13	97.5	80 -	120
209	Bi	382378.88	0.27	398573.31	95.9	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0719b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**

ISTD: **Pass**

Calibration Summary

Calibration : C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Calib: Jun 07, 2006 20:21
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\06f0719b.b\003calb.d\	003calb.d#	Jun 7 2006 07:46 pm
2	...hem\1\data\06f0719b.b\004cali.d\	004cali.d#	Jun 7 2006 07:51 pm
3	...hem\1\data\06f0719b.b\005cali.d\	005cali.d#	Jun 7 2006 07:57 pm
4	...hem\1\data\06f0719b.b\006cali.d\	006cali.d#	Jun 7 2006 08:03 pm
5	...hem\1\data\06f0719b.b\007cali.d\	007cali.d#	Jun 7 2006 08:08 pm
6	...hem\1\data\06f0719b.b\008cali.d\	008cali.d#	Jun 7 2006 08:14 pm
7	...hem\1\data\06f0719b.b\009cali.d\	009cali.d#	Jun 7 2006 08:19 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	Excluded	---	ppb
Be	9	6	Y = 9.862E-2*X +3.816E-3(blank)	---	ppb
Na	23	45	Y = 6.182E-1*X +1.765E+1(blank)	---	ppb
Mg	25	45	Excluded	---	ppb
Mg	26	45	Y = 5.651E-2*X +8.633E-2(blank)	---	ppb
Al	27	45	Y = 4.686E-1*X +1.309E+0(blank)	---	ppb
K	39	45	Y = 5.131E-1*X +4.753E+1(blank)	---	ppb
Ca	43	45	Excluded	---	ppb
Ca	44	45	Y = 1.578E-2*X +4.961E-1(blank)	---	ppb
Sc	45	---	Excluded	---	ppb
V	51	72	Y = 3.758E+0*X +7.126E-1(blank)	---	ppb
Cr	52	72	Y = 3.109E+0*X +2.237E+0(blank)	---	ppb
Cr	53	72	Excluded	---	ppb
Fe	54	72	Excluded	---	ppb
Mn	55	72	Y = 4.028E+0*X +3.204E-1(blank)	---	ppb
Fe	57	72	Y = 8.311E-2*X +2.727E+0(blank)	---	ppb
Co	59	72	Y = 3.434E+0*X +7.247E-2(blank)	---	ppb
Ni	60	72	Y = 6.979E-1*X +1.795E-1(blank)	---	ppb
Cu	63	72	Excluded	---	ppb
Cu	65	72	Y = 7.495E-1*X +2.827E-1(blank)	---	ppb
Zn	66	72	Y = 3.852E-1*X +9.356E-1(blank)	---	ppb
Ge	72	---	Excluded	---	ppb
As	75	72	Y = 3.607E-1*X +6.441E-2(blank)	---	ppb
(As)	77	72	Excluded	---	ppb
Se	82	72	Y = 2.747E-2*X +8.745E-3(blank)	---	ppb
(As)	83	72	Excluded	---	ppb
(Ca)	88	72	Excluded	---	ppb
Y	89	72	Excluded	---	ppb
Mo	95	72	Y = 7.343E-1*X +3.334E-2(blank)	---	ppb
Mo	98	72	Excluded	---	ppb
(Mo)	99	72	Excluded	---	ppb
(Cd)	106	72	Excluded	---	ppb
(Cd)	108	72	Excluded	---	ppb
Ag	109	72	Y = 1.644E+0*X +3.693E-2(blank)	---	ppb
Cd	111	72	Y = 3.383E-1*X +5.585E-2(blank)	---	ppb
Cd	114	72	Excluded	---	ppb
In	115	---	Excluded	---	ppb
(In)	118	---	Excluded	---	ppb
Sb	121	115	Y = 1.998E-1*X +1.662E-2(blank)	---	ppb
Ba	135	115	Excluded	---	ppb
Ba	137	115	Y = 8.334E-2*X +4.943E-3(blank)	---	ppb
Tb	159	---	Excluded	---	ppb
Er	166	115	Excluded	---	ppb
Tl	205	209	Y = 6.435E-1*X +3.539E-2(blank)	---	ppb
(Pb)	206	209	Excluded	---	ppb
(Pb)	207	209	Excluded	---	ppb
Pb	208	209	Y = 8.288E-1*X +4.475E-2(blank)	---	ppb
Bi	209	---	Excluded	---	ppb
Th	232	209	--------	---	ppb
U	238	209	--------	---	ppb

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05
Seqnum : 56228694010 File : f0719010
Cal : 56228694001 Caldate: 07-JUN-2006
Standards: S3601

IDF : 1.0
Time : 07-JUN-2006 20:25

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	1.3349	0.4852	100.0	100.7	ug/L	1	10	
Antimony	0.2211	0.2130	100.0	106.5	ug/L	7	10	
Arsenic	0.3839	0.3846	100.0	106.4	ug/L	6	10	
Barium	0.0894	0.0880	100.0	105.6	ug/L	6	10	
Beryllium	0.1009	0.1071	100.0	108.6	ug/L	9	10	
Cadmium	0.4255	0.3629	100.0	107.1	ug/L	7	10	
Calcium	0.0201	0.0168	10000	10620	ug/L	6	10	
Chromium	4.6173	3.1319	100.0	100.0	ug/L	0	10	
Cobalt	3.4688	3.4173	100.0	99.48	ug/L	-1	10	
Copper	0.9448	0.8014	100.0	106.6	ug/L	7	10	
Iron	0.0990	0.0898	10000	10780	ug/L	8	10	
Lead	0.8850	0.8815	100.0	106.3	ug/L	6	10	
Magnesium	0.0547	0.0608	10000	10760	ug/L	8	10	
Manganese	4.4493	4.0290	100.0	99.94	ug/L	0	10	
Molybdenum	0.7867	0.7680	100.0	104.6	ug/L	5	10	
Nickel	0.9575	0.7341	100.0	104.9	ug/L	5	10	
Potassium	0.8334	0.5471	10000	10570	ug/L	6	10	
Selenium	0.0317	0.0295	100.0	107.1	ug/L	7	10	
Silver	1.7750	1.7286	100.0	105.1	ug/L	5	10	
Sodium	0.7366	0.6675	10000	10770	ug/L	8	10	
Thallium	0.6316	0.6200	50.00	48.12	ug/L	-4	10	
Vanadium	4.0646	3.6235	100.0	96.22	ug/L	-4	10	
Zinc	1.2624	0.4228	100.0	107.3	ug/L	7	10	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	561263	-0.98
Scandium	419934	417321	-0.62
Germanium	79792	81182	1.74
Indium	561698	535247	-4.71
Bismuth	398573	380212	-4.61

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56228694029 File : f0719029 IDF : 1.0
Cal : 56228694001 Caldate: 07-JUN-2006 Time : 07-JUN-2006 22:11
Standards: S3621

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3349	0.6014	150.0	189.7	ug/L	**26**	10	c+ ***
Antimony	0.2211	0.2085	150.0	156.4	ug/L	4	10	
Arsenic	0.3839	0.3785	150.0	157.2	ug/L	5	10	
Barium	0.0894	0.0853	150.0	153.5	ug/L	2	10	
Beryllium	0.1009	0.1093	150.0	166.1	ug/L	**11**	10	c+ ***
Cadmium	0.4255	0.3229	150.0	143.0	ug/L	-5	10	
Calcium	0.0201	0.0166	15000	15760	ug/L	5	10	
Chromium	4.6173	3.0352	150.0	145.7	ug/L	-3	10	
Cobalt	3.4688	3.6131	150.0	157.8	ug/L	5	10	
Copper	0.9448	0.7830	150.0	156.3	ug/L	4	10	
Iron	0.0990	0.0858	15000	15440	ug/L	3	10	
Lead	0.8850	0.8435	150.0	152.6	ug/L	2	10	
Magnesium	0.0547	0.0652	15000	17310	ug/L	**15**	10	c+ ***
Manganese	4.4493	4.0843	150.0	152.0	ug/L	1	10	
Molybdenum	0.7867	0.7377	150.0	150.6	ug/L	0	10	
Nickel	0.9575	0.7243	150.0	155.4	ug/L	4	10	
Potassium	0.8334	0.5722	15000	16630	ug/L	**11**	10	c+ ***
Selenium	0.0317	0.0284	150.0	155.0	ug/L	3	10	
Silver	1.7750	1.5768	150.0	143.8	ug/L	-4	10	
Sodium	0.7366	0.7227	15000	17510	ug/L	**17**	10	c+ ***
Thallium	0.6316	0.6270	150.0	146.1	ug/L	-3	10	
Vanadium	4.0646	3.8390	150.0	153.0	ug/L	2	10	
Zinc	1.2624	0.4047	150.0	155.2	ug/L	3	10	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	589256	3.96
Scandium	419934	441137	5.05
Germanium	79792	89884	12.65
Indium	561698	542647	-3.39
Bismuth	398573	362193	-9.13

+=high bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56228694045 File : f0719045 IDF : 1.0
Cal : 56228694001 Caldate: 07-JUN-2006 Time : 07-JUN-2006 23:40
Standards: S3621

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3349	0.7375	150.0	233.3	ug/L	**56**	10	>LR c+ ***
Antimony	0.2211	0.2061	150.0	154.6	ug/L	3	10	
Arsenic	0.3839	0.3810	150.0	158.2	ug/L	5	10	i+
Barium	0.0894	0.0830	150.0	149.3	ug/L	0	10	
Beryllium	0.1009	0.1242	150.0	188.9	ug/L	**26**	10	c+ ***
Cadmium	0.4255	0.3069	150.0	135.9	ug/L	-9	10	i+
Calcium	0.0201	0.0166	15000	15720	ug/L	5	10	
Chromium	4.6173	2.7569	150.0	132.3	ug/L	**-12**	10	c- i+ ***
Cobalt	3.4688	3.4212	150.0	149.4	ug/L	0	10	i+
Copper	0.9448	0.7745	150.0	154.6	ug/L	3	10	i+
Iron	0.0990	0.0792	15000	14260	ug/L	-5	10	i+
Lead	0.8850	0.8477	150.0	153.4	ug/L	2	10	
Magnesium	0.0547	0.0799	15000	21210	ug/L	**41**	10	>LR c+ ***
Manganese	4.4493	3.7644	150.0	140.1	ug/L	-7	10	i+
Molybdenum	0.7867	0.7087	150.0	144.7	ug/L	-4	10	i+
Nickel	0.9575	0.6954	150.0	149.2	ug/L	-1	10	i+
Potassium	0.8334	0.6020	15000	17500	ug/L	**17**	10	c+ ***
Selenium	0.0317	0.0279	150.0	152.2	ug/L	1	10	i+
Silver	1.7750	1.4850	150.0	135.5	ug/L	-10	10	i+
Sodium	0.7366	0.8619	15000	20880	ug/L	**39**	10	>LR c+ ***
Thallium	0.6316	0.6275	150.0	146.2	ug/L	-3	10	
Vanadium	4.0646	3.4558	150.0	137.7	ug/L	-8	10	i+
Zinc	1.2624	0.3930	150.0	150.6	ug/L	0	10	i+

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	646109	13.99
Scandium	419934	458284	9.13
Germanium	79792	99594	**24.82 ***
Indium	561698	564032	0.42
Bismuth	398573	365276	-8.35

+=high bias -=low bias >LR=overrange c=CCV i=ISTD failure

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05
Seqnum : 56228694060 File : f0719060 IDF : 1.0
Cal : 56228694001 Caldate: 07-JUN-2006 Time : 08-JUN-2006 01:04
Standards: S3621

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.3349	0.7624	150.0	241.2	ug/L	**61**	10	>LR c+ ***
Antimony	0.2211	0.2061	150.0	154.7	ug/L	3	10	
Arsenic	0.3839	0.3828	150.0	159.0	ug/L	6	10	i+
Barium	0.0894	0.0826	150.0	148.5	ug/L	-1	10	
Beryllium	0.1009	0.1253	150.0	190.6	ug/L	**27**	10	c+ ***
Cadmium	0.4255	0.3019	150.0	133.7	ug/L	**-11**	10	c- i+ ***
Calcium	0.0201	0.0168	15000	15900	ug/L	6	10	
Chromium	4.6173	2.8702	150.0	137.8	ug/L	-8	10	i+
Cobalt	3.4688	3.4153	150.0	149.1	ug/L	-1	10	i+
Copper	0.9448	0.7729	150.0	154.3	ug/L	3	10	i+
Iron	0.0990	0.0790	15000	14230	ug/L	-5	10	i+
Lead	0.8850	0.8348	150.0	151.0	ug/L	1	10	
Magnesium	0.0547	0.0811	15000	21520	ug/L	**43**	10	>LR c+ ***
Manganese	4.4493	3.7320	150.0	138.9	ug/L	-7	10	i+
Molybdenum	0.7867	0.7045	150.0	143.9	ug/L	-4	10	i+
Nickel	0.9575	0.6978	150.0	149.7	ug/L	0	10	i+
Potassium	0.8334	0.6075	15000	17660	ug/L	**18**	10	c+ ***
Selenium	0.0317	0.0277	150.0	151.1	ug/L	1	10	i+
Silver	1.7750	1.4735	150.0	134.4	ug/L	-10	10	i+
Sodium	0.7366	0.8769	15000	21250	ug/L	**42**	10	>LR c+ ***
Thallium	0.6316	0.6191	150.0	144.3	ug/L	-4	10	
Vanadium	4.0646	3.4979	150.0	139.4	ug/L	-7	10	i+
Zinc	1.2624	0.3917	150.0	150.1	ug/L	0	10	i+

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	669362	18.09
Scandium	419934	472200	12.45
Germanium	79792	103053	**29.15 ***
Indium	561698	574789	2.33
Bismuth	398573	368073	-7.65

+=high bias -=low bias >LR=overrange c=CCV i=ISTD failure

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56228694013 File : f0719013
Cal : 56228694001 Caldate: 07-JUN-2006
IDF : 1.0
Time : 07-JUN-2006 20:42

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	0.8437	0.5000	2.123	ug/L	ib ***
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	[0.1528]	0.5000	0.03860	ug/L	!ib
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	[12.47]	50.00	9.919	ug/L	!ib
Thallium	[0.1600]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	579739	2.28
Scandium	419934	431764	2.82
Germanium	79792	82073	2.86
Indium	561698	564734	0.54
Bismuth	398573	393207	-1.35

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56228694032 File : f0719032
Cal : 56228694001 Caldate: 07-JUN-2006
IDF : 1.0
Time : 07-JUN-2006 22:28

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	8.806	0.5000	2.123	ug/L	ib ***
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.03442]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	[30.73]	50.00	7.739	ug/L	!ib
Chromium	[0.09208]	0.5000	0.03860	ug/L	!ib
Cobalt	[0.03827]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	[26.05]	50.00	6.980	ug/L	!ib
Lead	[0.01264]	0.2500	0.005283	ug/L	!ib
Magnesium	[17.23]	50.00	3.054	ug/L	!ib
Manganese	[0.07090]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	[32.45]	50.00	6.379	ug/L	!ib
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	78.77	50.00	9.919	ug/L	ib ***
Thallium	[0.2129]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	585541	3.30
Scandium	419934	435921	3.81
Germanium	79792	89095	11.66
Indium	561698	549915	-2.10
Bismuth	398573	365191	-8.38

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05
Seqnum : 56228694047 File : f0719047
Cal : 56228694001 Caldate: 07-JUN-2006
IDF : 1.0
Time : 07-JUN-2006 23:51

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	5.736	0.5000	2.123	ug/L	ib ***
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	[0.04004]	0.2500	0.02391	ug/L	!ib
Beryllium	[0.05594]	0.2500	0.009674	ug/L	!ib
Cadmium	[0.1037]	0.2500	0.04566	ug/L	!ib
Calcium	[23.44]	50.00	7.739	ug/L	!ib
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.04676]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	[20.27]	50.00	6.980	ug/L	!ib
Lead	[0.02953]	0.2500	0.005283	ug/L	!ib
Magnesium	[21.35]	50.00	3.054	ug/L	!ib
Manganese	[0.06760]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	[0.04318]	0.2500	0.03982	ug/L	!ib
Potassium	[26.18]	50.00	6.379	ug/L	!ib
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.04026]	0.2500	0.01266	ug/L	!ib
Sodium	50.65	50.00	9.919	ug/L	ib ***
Thallium	[0.3768]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	630393	11.21
Scandium	419934	454676	8.27
Germanium	79792	95329	19.47
Indium	561698	556845	-0.86
Bismuth	398573	356384	-10.59

!=warning ib=instrument blank

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694063 File : f0719063 Time : 08-JUN-2006 01:21
Cal : 56228694001 Caldate: 07-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	6.317	0.5000	2.123	ug/L	ib ***
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	i+
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.02560]	0.2500	0.009674	ug/L	!ib
Cadmium	[0.06523]	0.2500	0.04566	ug/L	!ib i+
Calcium	[20.65]	50.00	7.739	ug/L	!ib
Chromium	ND	0.5000	0.03860	ug/L	i+
Cobalt	[0.02356]	0.2500	0.008548	ug/L	!ib i+
Copper	ND	0.5000	0.04426	ug/L	i+
Iron	[16.35]	50.00	6.980	ug/L	!ib i+
Lead	[0.01239]	0.2500	0.005283	ug/L	!ib
Magnesium	[20.55]	50.00	3.054	ug/L	!ib
Manganese	[0.05713]	0.2500	0.01838	ug/L	!ib i+
Molybdenum	ND	0.5000	0.4994	ug/L	i+
Nickel	ND	0.2500	0.03982	ug/L	i+
Potassium	[24.56]	50.00	6.379	ug/L	!ib
Selenium	ND	0.5000	0.1891	ug/L	i+
Silver	[0.02839]	0.2500	0.01266	ug/L	!ib i+
Sodium	68.73	50.00	9.919	ug/L	ib ***
Thallium	[0.1624]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	i+
Zinc	ND	0.5000	0.09577	ug/L	i+

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	665970	17.49
Scandium	419934	467206	11.26
Germanium	79792	100307	**25.71 ***
Indium	561698	572606	1.94
Bismuth	398573	359429	-9.82

!=warning +=high bias i=ISTD failure ib=instrument blank

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05
Seqnum : 56228694014 File : f0719014
Cal : 56228694001 Caldate: 07-JUN-2006
Standards: S3612, S3310

IDF : 1.0
Time : 07-JUN-2006 20:47

Analyte	Quant	RL	Units	Flags
Antimony	2.177	0.2500	ug/L	
Arsenic	0.9634	0.5000	ug/L	
Barium	0.9734	0.2500	ug/L	
Beryllium	[0.02727]	0.2500	ug/L	
Cadmium	[0.06097]	0.2500	ug/L	
Chromium	1.425	0.5000	ug/L	
Cobalt	2.610	0.2500	ug/L	
Copper	1.923	0.5000	ug/L	
Lead	1.218	0.2500	ug/L	
Manganese	1.012	0.2500	ug/L	
Nickel	1.618	0.2500	ug/L	
Selenium	0.5301	0.5000	ug/L	
Silver	[0.1596]	0.2500	ug/L	
Thallium	[0.1666]	0.5000	ug/L	
Vanadium	[0]	0.5000	ug/L	
Zinc	3.183	0.5000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	97640	ug/L	98
Calcium	300000	295700	ug/L	99
Iron	250000	235500	ug/L	94
Magnesium	100000	99930	ug/L	100
Molybdenum	2000	1996	ug/L	100
Potassium	100000	99510	ug/L	100
Sodium	250000	247600	ug/L	99

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	513772	-9.36
Scandium	419934	395752	-5.76
Germanium	79792	75735	-5.08
Indium	561698	451332	-19.65
Bismuth	398573	302884	-24.01

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05
Seqnum : 56228694015 File : f0719015
Cal : 56228694001 Caldate: 07-JUN-2006
Standards: S3620, S3310

IDF : 1.0
Time : 07-JUN-2006 20:53

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	100300	ug/L	0		
Arsenic	100.0	107.4	ug/L	7	20	
Cadmium	100.0	95.12	ug/L	-5	20	
Calcium	300000	296400	ug/L	-1		
Chromium	200.0	216.6	ug/L	8	20	
Cobalt	200.0	214.0	ug/L	7	20	
Copper	200.0	201.4	ug/L	1	20	
Iron	250000	232600	ug/L	-7		
Magnesium	100000	103100	ug/L	3		
Manganese	200.0	216.1	ug/L	8	20	
Molybdenum	2000	1982	ug/L	-1		
Nickel	200.0	201.9	ug/L	1	20	
Potassium	100000	99600	ug/L	0		
Selenium	100.0	92.09	ug/L	-8	20	
Silver	50.00	48.80	ug/L	-2	20	
Sodium	250000	253900	ug/L	2		
Vanadium	200.0	222.5	ug/L	11	20	
Zinc	100.0	106.4	ug/L	6	20	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Scandium	419934	385470	-8.21
Germanium	79792	76933	-3.58

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694064 File : f0719064 Time : 08-JUN-2006 01:27
Cal : 56228694001 Caldate: 07-JUN-2006
Standards: S3602, S3310

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100.0	112500	ug/L	112500
Antimony	100.0	2.161	ug/L	2
Arsenic	100.0	1.135	ug/L	1
Barium	100.0	0.9741	ug/L	1
Beryllium	100.0	0.03779	ug/L	0
Cadmium	100.0	0.08293	ug/L	0
Calcium	10000	294500	ug/L	2945
Chromium	100.0	1.489	ug/L	1
Cobalt	100.0	2.544	ug/L	3
Copper	100.0	1.904	ug/L	2
Iron	10000	224100	ug/L	2241
Lead	100.0	1.221	ug/L	1
Magnesium	10000	115400	ug/L	1154
Manganese	100.0	0.9974	ug/L	1
Molybdenum	100.0	1876	ug/L	1876
Nickel	100.0	1.886	ug/L	2
Potassium	10000	104900	ug/L	1049
Selenium	100.0	0.5467	ug/L	1
Silver	100.0	0.1536	ug/L	0
Sodium	10000	279700	ug/L	2797
Thallium	50.00	0.2211	ug/L	0
Vanadium	100.0	0.1856	ug/L	0
Zinc	100.0	3.421	ug/L	3

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Lithium	566835	582442	2.75
Scandium	419934	446502	6.33
Germanium	79792	92559	16.00
Indium	561698	488271	-13.07
Bismuth	398573	302387	-24.13

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56228694065 File : f0719065 Time : 08-JUN-2006 01:32
Cal : 56228694001 Caldate: 07-JUN-2006
Standards: S3620, S3310

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	118500	ug/L	19		
Arsenic	100.0	110.1	ug/L	10	20	
Cadmium	100.0	86.07	ug/L	-14	20	
Calcium	300000	298900	ug/L	0		
Chromium	200.0	203.4	ug/L	2	20	
Cobalt	200.0	208.4	ug/L	4	20	
Copper	200.0	199.4	ug/L	0	20	
Iron	250000	223200	ug/L	-11		
Magnesium	100000	120300	ug/L	20		
Manganese	200.0	203.7	ug/L	2	20	
Molybdenum	2000	1868	ug/L	-7		
Nickel	200.0	200.9	ug/L	0	20	
Potassium	100000	106800	ug/L	7		
Selenium	100.0	91.82	ug/L	-8	20	
Silver	50.00	44.01	ug/L	-12	20	
Sodium	250000	291200	ug/L	16		
Vanadium	200.0	209.2	ug/L	5	20	
Zinc	100.0	104.1	ug/L	4	20	

ISTD (ICALBLK f0719003)	ICALBLK Abund	Abund	%Drift
Scandium	419934	426930	1.67
Germanium	79792	91421	14.57

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56228694 Instrument: MET05 Agilent ICP-MS Begun: 07-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	f0719001	TUN				07-JUN-2006 19:34	1.0	1.0			1	
002	f0719002	X	RINSE			07-JUN-2006 19:40	1.0				2	
003	f0719003	ICALBLK	STD-BLK			07-JUN-2006 19:46	1.0	1.0			2	
004	f0719004	ICAL	CS1			07-JUN-2006 19:51	1.0	1.0			3	
005	f0719005	ICAL	CS2			07-JUN-2006 19:57	1.0	1.0			4	
006	f0719006	ICAL	CS3			07-JUN-2006 20:03	1.0	1.0			5	
007	f0719007	ICAL	CS4			07-JUN-2006 20:08	1.0	1.0			6	
008	f0719008	ICAL	CS5			07-JUN-2006 20:14	1.0	1.0			7	
009	f0719009	ICAL	CS6			07-JUN-2006 20:19	1.0	1.0			8	
010	f0719010	ICV				07-JUN-2006 20:25	1.0	1.0		1	9	
011	f0719011	X	RINSE			07-JUN-2006 20:30	1.0				2	
012	f0719012	X				07-JUN-2006 20:36	1.0	1.0	1	1	2	
013	f0719013	ICB				07-JUN-2006 20:42	1.0	1.0	1	1	2	
014	f0719014	ICSA				07-JUN-2006 20:47	1.0	1.0		1	10 2	7:CA=295700
015	f0719015	ICSAB				07-JUN-2006 20:53	1.0	1.0		1	11 2	13:CA=296800
016	f0719016	X	RINSE			07-JUN-2006 20:58	1.0				2	
017	f0719017	X	RINSE			07-JUN-2006 21:04	1.0				2	
018	f0719018	SAMPLE	187020-012	113955	Water	07-JUN-2006 21:10	1.0	1.0	6	1	2	5:NA=55240.0
019	f0719019	SAMPLE	187020-013	113955	Water	07-JUN-2006 21:15	1.0	1.0	5	1	2	4:MG=80420.0
020	f0719020	SAMPLE	187020-014	113955	Water	07-JUN-2006 21:21	1.0	1.0	7	1	2	6:NA=179600
021	f0719021	SAMPLE	187020-015	113955	Water	07-JUN-2006 21:26	1.0	1.0	9	1	2	8:NA=227000
022	f0719022	X	RINSE			07-JUN-2006 21:32	1.0				2	
023	f0719023	BLANK	QC342089	113957	Filtra	07-JUN-2006 21:37	1.0	1.0	5	1	2	
024	f0719024	BS	QC342090	113957	Filtra	07-JUN-2006 21:43	1.0	1.0	5	1	2	
025	f0719025	BSD	QC342091	113957	Filtra	07-JUN-2006 21:48	1.0	1.0	5	1	2	
026	f0719026	X	RINSE			07-JUN-2006 21:54	1.0				2	
027	f0719027	MSS	187112-002	113957	Filtra	07-JUN-2006 22:00	1.0	1.0	4	1	2	3:NA=57750.0
028	f0719028	X	RINSE			07-JUN-2006 22:05	1.0				2	
029	f0719029	CCV				07-JUN-2006 22:11	1.0	1.0	5	1	12	
031	f0719031	X				07-JUN-2006 22:22	1.0	1.0	2	1	2	

Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3621 13=S3085 14=S3602
Flags used: spk=5% spike rule

Analyst: K Carlyon Date: 6/8/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56228694 Instrument: MET05 Agilent ICP-MS Begun: 07-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	f0719032	CCB				07-JUN-2006 22:28	1.0	1.0	2		1	2	
033	f0719033	SER	QC342094	113957	Filtra	07-JUN-2006 22:33	5.0	1.0	3	1	1	2	
034	f0719034	MS	QC342092	113957	Filtra	07-JUN-2006 22:39	1.0	1.0	4		1	2	3:NA=69250.0
035	f0719035	MSD	QC342093	113957	Filtra	07-JUN-2006 22:44	1.0	1.0	4		1	2	3:NA=71430.0
036	f0719036	PDS	QC342095	113957	Filtra	07-JUN-2006 22:50	1.0	1.0	4		1	13	3:NA=70030.0
037	f0719037	X	RINSE			07-JUN-2006 22:55	1.0					2	
038	f0719038	SAMPLE	187020-017	113957	Filtra	07-JUN-2006 23:01	1.0	1.0	5		1	2	3:NA=73920.0
039	f0719039	SAMPLE	187020-018	113957	Filtra	07-JUN-2006 23:07	1.0	1.0	5		1	2	3:NA=80950.0
040	f0719040	SAMPLE	187020-019	113957	Filtra	07-JUN-2006 23:12	1.0	1.0	5		1	2	3:NA=102500
041	f0719041	SAMPLE	187020-020	113957	Filtra	07-JUN-2006 23:18	1.0	1.0	5		1	2	3:NA=101900
042	f0719042	SAMPLE	187112-003	113957	Filtra	07-JUN-2006 23:24	1.0	1.0	5		1	2	3:MG=477600
043	f0719043	SAMPLE	187112-004	113957	Filtra	07-JUN-2006 23:29	1.0	1.0	5		1	2	4:MG=269300
044	f0719044	X	RINSE			07-JUN-2006 23:35	1.0					2	
045	f0719045	CCV				07-JUN-2006 23:40	1.0	1.0	6		1	12	3:MG=21210.0
046	f0719046	X	RINSE			07-JUN-2006 23:46	1.0					2	
047	f0719047	CCB				07-JUN-2006 23:51	1.0	1.0	2		1	2	
048	f0719048	X				07-JUN-2006 23:57	1.0	1.0	1		1	2	
049	f0719049	SAMPLE	187112-005	113957	Water	08-JUN-2006 00:03	1.0	1.0	2		1	2	5:NA=184700
050	f0719050	SAMPLE	187112-006	113957	Filtra	08-JUN-2006 00:08	1.0	1.0	4		1	2	2:NA=273600
051	f0719051	SAMPLE	187112-007	113957	Filtra	08-JUN-2006 00:14	1.0	1.0	4		1	2	2:NA=285700
052	f0719052	SAMPLE	187112-008	113957	Filtra	08-JUN-2006 00:20	1.0	1.0	5		1	2	2:NA=251900
053	f0719053	SAMPLE	187112-009	113957	Filtra	08-JUN-2006 00:25	1.0	1.0	5		1	2	2:NA=282700
054	f0719054	SAMPLE	187112-010	113957	Filtra	08-JUN-2006 00:31	1.0	1.0	4		1	2	2:NA=159700
055	f0719055	SAMPLE	187112-011	113957	Filtra	08-JUN-2006 00:36	1.0	1.0	3		1	2	
056	f0719056	SAMPLE	187112-012	113957	Filtra	08-JUN-2006 00:42	1.0	1.0	7		1	2	4:NA=258300
057	f0719057	SAMPLE	187112-013	113957	Water	08-JUN-2006 00:48	1.0	1.0	4		1	2	
058	f0719058	SAMPLE	187137-001	113957	Filtra	08-JUN-2006 00:53	1.0	1.0	3		1	2	
059	f0719059	X	RINSE			08-JUN-2006 00:59	1.0					2	
060	f0719060	CCV				08-JUN-2006 01:04	1.0	1.0	6		1	12	3:MG=21520.0
061	f0719061	X	RINSE			08-JUN-2006 01:10	1.0					2	

Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3621 13=S3085 14=S3602
Flags used: spk=5% spike rule

Analyst: K Carlyn Date: 6/8/06

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56228694 Instrument: MET05 Agilent ICP-MS Begun: 07-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
062	f0719062	X				08-JUN-2006 01:15	1.0	1.0	2		1	2	
063	f0719063	CCB				08-JUN-2006 01:21	1.0	1.0	2		1	2	
064	f0719064	ICSA				08-JUN-2006 01:27	1.0	1.0			1	14 2	7:CA=294500
065	f0719065	ICSAB				08-JUN-2006 01:32	1.0	1.0			1	11 2	12:CA=298900
066	f0719066	X	RINSE			08-JUN-2006 01:38	1.0					2	
067	f0719067	CCV				08-JUN-2006 01:43	1.0	1.0	5		1	12	1:AL=228.300
068	f0719068	X	RINSE			08-JUN-2006 01:49	1.0					2	
069	f0719069	CCB				08-JUN-2006 01:54	1.0	1.0	2		1	2	
070	f0719070	X				08-JUN-2006 02:00	1.0	1.0	2		1	2	
071	f0719071	BLANK	QC342503	114058	Filtra	08-JUN-2006 02:06	1.0	1.0	4		1	2	
072	f0719072	BS	QC342504	114058	Filtra	08-JUN-2006 02:11	1.0	1.0	6	4	1	2 spk	
073	f0719073	BSD	QC342505	114058	Filtra	08-JUN-2006 02:17	1.0	1.0	6	5	1	2 spk	
074	f0719074	X	RINSE			08-JUN-2006 02:22	1.0					2	
075	f0719075	X	187061-013	114058	Filtra	08-JUN-2006 02:28	1.0	1.0	8		1	2 spk	6:CA=52260.0
076	f0719076	MS	QC342506	114058	Filtra	08-JUN-2006 02:34	1.0	1.0			1	2	6:CA=61250.0
077	f0719077	MSD	QC342507	114058	Filtra	08-JUN-2006 02:39	1.0	1.0			1	2	6:CA=61080.0
078	f0719078	X	RINSE			08-JUN-2006 02:45	1.0					2	
079	f0719079	X	187061-001	114058	Filtra	08-JUN-2006 02:50	1.0	1.0	1		1	2 spk	1:NA=38720.0
080	f0719080	X	187061-002	114058	Filtra	08-JUN-2006 02:56	1.0	1.0	1		1	2 spk	1:NA=36990.0
081	f0719081	X	187061-003	114058	Filtra	08-JUN-2006 03:02	1.0	1.0	1		1	2 spk	2:NA=47330.0
082	f0719082	X	187061-004	114058	Filtra	08-JUN-2006 03:07	1.0	1.0	1		1	2 spk	1:NA=56680.0
083	f0719083	X	RINSE			08-JUN-2006 03:13	1.0					2	
084	f0719084	CCV				08-JUN-2006 03:18	1.0	1.0	6		1	12	3:MG=21090.0
085	f0719085	X	RINSE			08-JUN-2006 03:24	1.0					2	
086	f0719086	X				08-JUN-2006 03:30	1.0	1.0	1		1	2	
087	f0719087	CCB				08-JUN-2006 03:35	1.0	1.0	1		1	2	
088	f0719088	X	187061-005	114058	Filtra	08-JUN-2006 03:41	1.0	1.0	1		1	2 spk	1:NA=27950.0
089	f0719089	X	187061-006	114058	Filtra	08-JUN-2006 03:47	1.0	1.0	1		1	2 spk	1:NA=31400.0
090	f0719090	X	187061-007	114058	Filtra	08-JUN-2006 03:52	1.0	1.0	1		1	2 spk	1:NA=36630.0
091	f0719091	X	187061-008	114058	Filtra	08-JUN-2006 03:58	1.0	1.0	1		1	2 spk	2:NA=21550.0

Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3621 13=S3085 14=S3602
Flags used: spk=5% spike rule

Analyst: K Carlyn Date: 6/8/06

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 6020

Inst : MET05
Calnum : 56229800002
Units : ug/L

Date : 08-JUN-2006 14:11
X Axis : R

Reviewer: ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	f0813004	56229800004	CS1	08-JUN-2006 14:17	S3608
L2	f0813005	56229800005	CS2	08-JUN-2006 14:22	S3609
L3	f0813006	56229800006	CS3	08-JUN-2006 14:28	S3610
L4	f0813007	56229800007	CS4	08-JUN-2006 14:34	S3611
L5	f0813008	56229800008	CS5	08-JUN-2006 14:39	S3605
L6	f0813009	56229800009	CS6	08-JUN-2006 14:45	S3606

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Aluminum		4.0668	2.4856	0.5685	0.4159	0.4565	BLNK	-4.0072	2.28440		1.5987	0.997	0.995	
Antimony	0.2644	0.2405	0.2235	0.2114	0.2146	0.2167	BLNK	-0.0563	4.62493		0.2285	1.000	0.995	
Arsenic		0.3719	0.4065	0.3620	0.3599	0.3624	BLNK	-0.0158	2.76342		0.3726	1.000	0.995	
Barium	0.1032	0.1046	0.0940	0.0851	0.0857	0.0860	BLNK	-0.0578	11.6445		0.0931	1.000	0.995	
Beryllium	0.1212	0.1019	0.0966	0.0985	0.0981	0.0991	BLNK	-0.0524	10.1171		0.1026	1.000	0.995	
Cadmium	0.5720	0.4464	0.3774	0.3043	0.2945	0.2889	BLNK	-0.2448	3.45253		0.3806	1.000	0.995	
Calcium		0.0276	0.0269	0.0159	0.0160	0.0157	BLNK	-34.577	63.6498		0.0204	1.000	0.995	
Chromium		6.6881	4.6502	2.8769	2.6635	2.8199	BLNK	-0.7057	0.36015		3.9397	0.999	0.995	
Cobalt	3.6413	3.4185	3.2472	3.0377	3.0615	3.2279	BLNK	-0.0377	0.31313		3.2724	0.999	0.995	
Copper		1.2903	0.9649	0.7418	0.7159	0.7047	BLNK	-0.3111	1.41710		0.8835	1.000	0.995	
Iron		0.1599	0.1144	0.0766	0.0778	0.0758	BLNK	-53.325	13.1709		0.1009	1.000	0.995	
Lead	0.9511	0.9053	0.8704	0.8245	0.8250	0.8712	BLNK	-0.0382	1.16052		0.8746	0.999	0.995	
Magnesium		0.0557	0.0529	0.0522	0.0525	0.0530	BLNK	-4.8669	18.9053		0.0533	1.000	0.995	
Manganese	5.6264	4.7406	4.2403	3.6034	3.8236	3.7494	BLNK	-0.1187	0.26588		4.2973	1.000	0.995	
Molybdenum		0.8134	0.7782	0.6801	0.6713	0.6790	BLNK	-0.0932	1.47696		0.7244	1.000	0.995	
Nickel	1.5402	1.1314	0.9071	0.6987	0.6490	0.6413	BLNK	-0.3032	1.55821		0.9280	1.000	0.995	
Potassium		1.8307	1.1792	0.5622	0.4913	0.4869	BLNK	-133.29	2.06654		0.9101	1.000	0.995	
Selenium		0.0338	0.0291	0.0243	0.0234	0.0232	BLNK	-0.2600	43.0349		0.0267	1.000	0.995	
Silver	1.5649	1.5585	1.5123	1.4526	1.4245	1.4118	BLNK	-0.0177	0.70709		1.4874	1.000	0.995	
Sodium		0.8767	0.8323	0.6174	0.5924	0.5975	BLNK	-23.014	1.67878		0.7033	1.000	0.995	
Thallium		0.7760	0.6614	0.5748	0.6021	0.6752	BLNK	-0.2225	1.51623		0.6579	0.997	0.995	
Vanadium		4.1786	3.7285	3.1506	3.3855	3.3994	BLNK	-0.1870	0.29480		3.5685	1.000	0.995	
Zinc		2.2673	2.4909	0.4763	0.3826	0.3733	BLNK	-2.3353	2.70212		1.1981	1.000	0.995	

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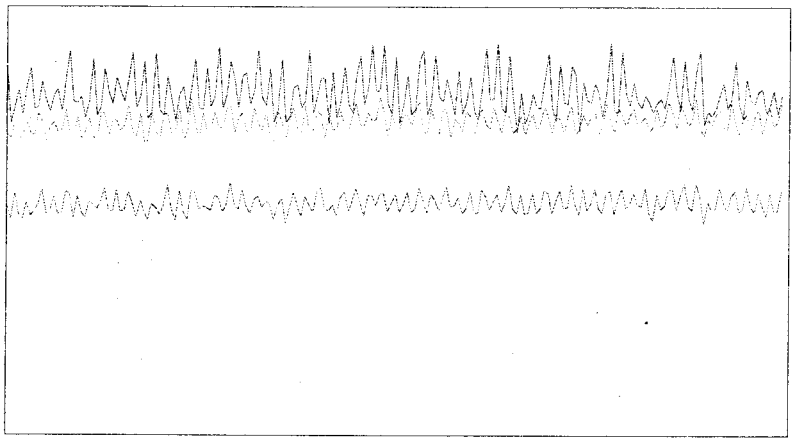
Instrument amount = a0 + response * a1 + response^2 * a2; BLNK=Y=aX+[blank]

56229800002

Tune Report

Tune File : ATUNE.U



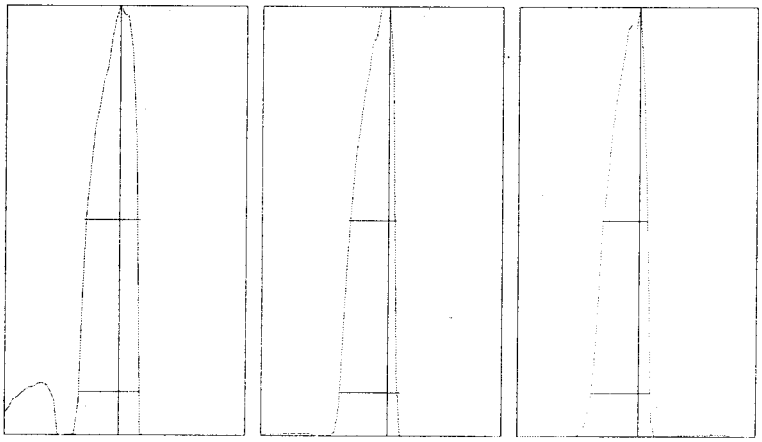
m/z:	7	89	205
Range:	20,000	50,000	20,000
Count:	15,876	28,751	15,522
Mean:	15994.5	27173.1	14636.0
RSD%:	6.25	4.23	3.47
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.34%
Doubly Charged:	70/140	1.13%

Background:

m/z:	7	89	205
Cps:	49.8	17.6	19.5



m/z:	7	89	205
Height:	15,878	27,458	14,911
Axis:	6.95	89.10	205.05
W-50%:	0.70	0.60	0.55
W-10%:	0.7500	0.7500	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1300 W	Extract 1:	-150 V	AMU Gain:	131
RF Matching:	1.7 V	Extract 2:	-110 V	AMU Offset:	125
Smpl Depth:	8 mm	Einzel 1,3:	-160 V	Axis Gain:	0.9993
Torch-H:	-0.1 mm	Einzel 2:	7 V	Axis Offset:	-0.08
Torch-V:	0.2 mm	Omega Bias:	-55 V	QP Bias:	1.6 V
Carrier Gas:	1.06 L/min	Omega (+):	5 V		
Makeup Gas:	0 L/min	Omega (-):	-5 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	8 V	Discriminator:	9.1 mV.
PeriPump1:	0.1 rps	Plate Bias:	-5 V	Analog HV:	1790 V
PeriPump2:	--- rps			Pulse HV:	1450 V
S/C Temp:	2 degC				

Generated : Jun 08, 2006 13:39:46
Printed : Jun 08, 2006 13:39:52

P/A Factor Tuning Report

Acquired:Jun 8 2006 01:48 pm

Mass[amu]	Element	P/A Factor
6	Li	0.076367
9	Be	0.083439
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.098113
39	K	0.090561
43	Ca	0.098712
44	Ca	Sensitivity too high
45	Sc	0.097662
51	V	0.101440
52	Cr	0.101780
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.103641
57	Fe	Sensitivity too high
59	Co	0.104294
60	Ni	0.101235
63	Cu	0.103017
65	Cu	0.101494
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.100231
95	Mo	0.099156
98	Mo	0.100257
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.101003
111	Cd	Sensitivity too low
114	Cd	0.100478
115	In	0.100928
118	(In)	Sensitivity too high
121	Sb	0.102823
135	Ba	Sensitivity too low
137	Ba	0.102006
159	Tb	0.103083
166	Er	Sensitivity too low

205	Tl	0.103602
206	(Pb)	0.101891
207	(Pb)	0.100967
208	Pb	0.102948
209	Bi	0.100590

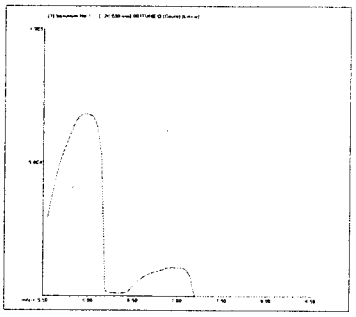
===Detector Parameters===
Discriminator: 9.1 mV
Analog HV: 1790 V
Pulse HV: 1450 V

6020 QC Tune Report

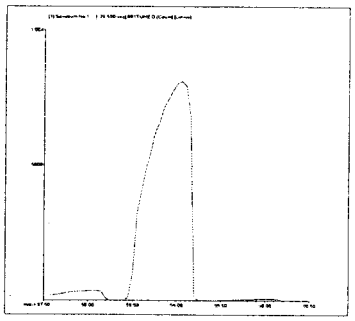
Data File: C:\ICPCHEM\1\DATA\06F0813a.B\001TUNE.D
Date Acquired: Jun 8 2006 02:00 pm
Acq. Method: TN6020.M
Operator:
Sample Name: tun,s3622
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

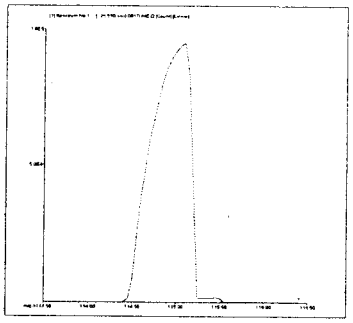
Element	Actual	Required	Flag
7 Li	1.58	5.00	
59 Co	0.70	5.00	
115 In	1.24	5.00	
205 Tl	1.73	5.00	



7 Li
Mass Calib.
Actual: 6.95
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



115 In

Mass Calib.

Actual: 115.10

Required: 114.90 - 115.10

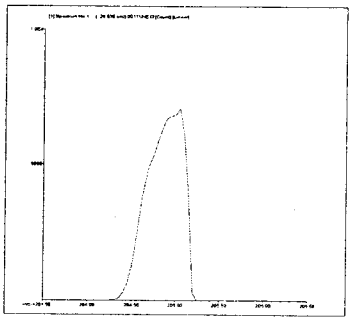
Flag:

Peak Width

Actual: 0.65

Required: 0.90

Flag:



205 Tl

Mass Calib.

Actual: 205.05

Required: 204.90 - 205.10

Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\06F0813a.B\002BLNK.D\002BLNK.D#
Date Acquired: Jun 8 2006 02:06 pm
Acq. Method: 60200111.M
Operator:
Sample Name: rinse
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal. Update: Jun 07 2006 08:21 pm
Sample Type: 6-Blank
Dilution Factor: 1.00

QC Elements

Element	Corr. Conc.		RSD(%)	Raw Conc.	High Limit	Flag
9 Be	0.01479	ppb	50.83	0.01479	1.00	
23 Na	-6.81	ppb	6.97	-6.81	1.00	
26 Mg	2.708	ppb	2.65	2.708	1.00	
27 Al	0.8601	ppb	9.32	0.8601	1.00	
39 K	29.65	ppb	4.13	29.65	1.00	
44 Ca	3.946	ppb	28.59	3.946	1.00	
51 V	-0.03375	ppb	112.06	-0.03375	1.00	
52 Cr	-0.1207	ppb	8.88	-0.1207	1.00	
55 Mn	0.03867	ppb	8.88	0.03867	1.00	
57 Fe	16.71	ppb	1.48	16.71	1.00	
59 Co	0.01506	ppb	20.54	0.01506	1.00	
60 Ni	0.02874	ppb	106.89	0.02874	1.00	
65 Cu	-0.08252	ppb	8.45	-0.08252	1.00	
66 Zn	-0.002108	ppb	2456.80	-0.002108	1.00	
75 As	-0.1616	ppb	48.13	-0.1616	1.00	
82 Se	-0.2923	ppb	98.67	-0.2923	1.00	
95 Mo	0.05664	ppb	9.62	0.05664	1.00	
109 Ag	-0.003397	ppb	180.39	-0.003397	1.00	
111 Cd	0.03738	ppb	83.12	0.03738	1.00	
121 Sb	-0.02086	ppb	29.56	-0.02086	1.00	
137 Ba	0.005731	ppb	178.50	0.005731	1.00	
205 Tl	0.2843	ppb	6.61	0.2843	1.00	
208 Pb	-0.01624	ppb	14.86	-0.01624	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	684593.75	0.72	---	#VALUE!	80 - 120	
45 Sc	580715.56	0.64	---	#VALUE!	80 - 120	
72 Ge	127530.00	0.36	---	#VALUE!	80 - 120	
115 In	758682.19	0.39	---	#VALUE!	80 - 120	
209 Bi	532723.31	0.78	---	#VALUE!	80 - 120	

ISTD Ref File : ---

4 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Fail
ISTD: Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\06F0813a.B\003CAL
Date Acquired:	Jun 8 2006 02:11 pm
Operator:	
Sample Name:	std-blk
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\DATA\06D0108A.B\602001
Last Cal Update:	Jun 07 2006 08:21 pm
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	685997.19	A	2586.00	0.38
9	Be	71.11	P	23.65	33.26
23	Na	156148.91	P	1447.00	0.93
26	Mg	2933.33	P	107.30	3.66
27	Al	19978.89	P	113.60	0.57
39	K	734745.88	A	13280.00	1.81
44	Ca	6189.52	P	184.50	2.98
45	Sc	569607.69	P	9776.00	1.72
51	V	1607.99	P	625.90	38.92
52	Cr	4967.78	P	168.80	3.40
55	Mn	1132.22	P	66.19	5.85
57	Fe	10264.44	P	131.70	1.28
59	Co	305.56	P	3.85	1.26
60	Ni	493.33	P	60.00	12.16
65	Cu	556.65	P	30.55	5.49
66	Zn	2191.11	P	64.32	2.94
72	Ge	126761.80	P	347.40	0.27
75	As	14.55	P	114.20	784.94
82	Se	15.33	P	20.43	133.24
95	Mo	160.00	P	20.28	12.68
109	Ag	63.33	P	26.03	41.10
111	Cd	179.70	P	16.20	9.01
115	In	747997.81	P	8499.00	1.14
121	Sb	182.22	P	32.03	17.58
137	Ba	74.44	P	24.57	33.00
205	Tl	1544.44	P	38.63	2.50
208	Pb	346.67	P	20.82	6.01
209	Bi	526424.38	P	5516.00	1.05

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0813a.B\004CALI.D\004CALI.D#
Date Acquired: Jun 8 2006 02:17 pm
Operator:
Sample Name: cs1,s3608
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 08 2006 02:13 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	683879.88	A	6322.00	0.92
9 Be	414.44	P	25.02	6.04
23 Na	330706.69	P	2098.00	0.63
26 Mg	17194.44	P	384.60	2.24
27 Al	21831.11	P	434.00	1.99
39 K	899914.69	A	7430.00	0.83
44 Ca	11686.66	P	230.00	1.97
45 Sc	570215.63	P	10330.00	1.81
51 V	3035.66	P	272.00	8.96
52 Cr	6563.33	P	159.50	2.43
55 Mn	3580.00	P	53.64	1.50
57 Fe	15557.78	P	304.70	1.96
59 Co	2316.67	P	68.88	2.97
60 Ni	980.00	P	116.20	11.86
65 Cu	1146.59	P	52.92	4.62
66 Zn	3461.11	P	33.72	0.97
72 Ge	127254.40	P	925.60	0.73
75 As	293.47	P	80.22	27.34
82 Se	23.78	P	26.22	110.27
95 Mo	615.56	P	66.19	10.75
109 Ag	995.56	P	43.50	4.37
111 Cd	364.07	P	25.75	7.07
115 In	765496.38	M	37710.00	4.93
121 Sb	1010.00	P	78.81	7.80
137 Ba	394.44	P	18.36	4.65
205 Tl	2704.44	P	27.15	1.00
208 Pb	2514.44	P	31.51	1.25
209 Bi	528794.38	P	2733.00	0.52

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	683879.88	0.92	685997.19	99.7	80 - 120	

45	Sc	570215.56	1.81	569607.75	100.1	80 -	120
72	Ge	127254.45	0.73	126761.78	100.4	80 -	120
115	In	765496.44	4.93	747997.81	102.3	80 -	120
209	Bi	528794.38	0.52	526424.38	100.5	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0813a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06F0813a.B\005CALI.D\005CALI.D#
Date Acquired:	Jun 8 2006 02:22 pm
Operator:	
Sample Name:	cs2,s3609
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update:	Jun 08 2006 02:19 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	684565.50	A	1936.00	0.28
9	Be	697.78	P	28.74	4.12
23	Na	497624.41	P	6633.00	1.33
26	Mg	31645.56	P	796.60	2.52
27	Al	23086.67	P	577.60	2.50
39	K	1039192.00	A	13340.00	1.28
44	Ca	15644.93	P	398.50	2.55
45	Sc	567662.19	P	9666.00	1.70
51	V	5337.56	P	317.90	5.96
52	Cr	8544.44	P	252.00	2.95
55	Mn	6055.56	P	235.00	3.88
57	Fe	20421.11	P	306.30	1.50
59	Co	4365.56	P	123.60	2.83
60	Ni	1445.56	P	46.23	3.20
65	Cu	1647.63	P	78.48	4.76
66	Zn	2896.67	P	72.65	2.51
72	Ge	127744.00	P	1536.00	1.20
75	As	475.52	P	83.13	17.48
82	Se	43.11	P	7.73	17.92
95	Mo	1038.89	P	35.01	3.37
109	Ag	1991.11	P	60.03	3.01
111	Cd	570.60	P	54.58	9.57
115	In	749308.00	P	3035.00	0.41
121	Sb	1802.22	P	61.94	3.44
137	Ba	783.33	P	60.09	7.67
205	Tl	4104.44	P	277.50	6.76
208	Pb	4785.56	P	152.10	3.18
209	Bi	528710.00	P	5833.00	1.10

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	684565.56	0.28	685997.19	99.8	80 - 120	

45	Sc	567662.19	1.70	569607.75	99.7	80 - 120
72	Ge	127744.00	1.20	126761.78	100.8	80 - 120
115	In	749308.06	0.41	747997.81	100.2	80 - 120
209	Bi	528710.00	1.10	526424.38	100.4	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0813a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**

ISTD: **Pass**

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06F0813a.B\006CALI.D\006CALI.D#
Date Acquired:	Jun 8 2006 02:28 pm
Operator:	
Sample Name:	cs3,s3610
Misc Info:	
Vial Number:	1104
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update:	Jun 08 2006 02:24 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	697412.13	A	7731.00	1.11
9	Be	1347.78	P	61.85	4.59
23	Na	955416.13	A	14890.00	1.56
26	Mg	60677.78	P	443.90	0.73
27	Al	28537.78	P	407.80	1.43
39	K	1353724.00	A	7637.00	0.56
44	Ca	30835.40	P	877.30	2.85
45	Sc	574061.13	P	7454.00	1.30
51	V	9631.13	P	266.40	2.77
52	Cr	12013.33	P	215.50	1.79
55	Mn	10954.44	P	214.10	1.95
57	Fe	29553.33	P	416.80	1.41
59	Co	8388.89	P	50.92	0.61
60	Ni	2343.33	P	51.32	2.19
65	Cu	2493.06	P	101.20	4.06
66	Zn	6434.44	P	134.30	2.09
72	Ge	129171.30	P	918.50	0.71
75	As	1049.83	P	55.22	5.26
82	Se	75.11	P	13.67	18.20
95	Mo	2010.00	P	104.40	5.19
109	Ag	3906.67	P	33.83	0.87
111	Cd	975.21	P	45.24	4.64
115	In	758439.13	P	3979.00	0.52
121	Sb	3390.00	P	155.10	4.58
137	Ba	1426.67	P	86.22	6.04
205	Tl	7030.00	P	203.30	2.89
208	Pb	9251.11	P	168.30	1.82
209	Bi	531401.13	P	3003.00	0.57

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6	Li	697412.13	1.11	685997.19	101.7	80 -	120	

45	Sc	574061.06	1.30	569607.75	100.8	80 - 120
72	Ge	129171.34	0.71	126761.78	101.9	80 - 120
115	In	758439.13	0.52	747997.81	101.4	80 - 120
209	Bi	531401.06	0.57	526424.38	100.9	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0813a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**

ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0813a.B\007CALI.D\007CALI.D#
Date Acquired: Jun 8 2006 02:34 pm
Operator:
Sample Name: cs4,s3611
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 08 2006 02:30 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	692358.63	A	836.10	0.12
9	Be	13638.89	P	385.30	2.83
23	Na	7086559.00	A	33270.00	0.47
26	Mg	599849.13	M	33400.00	5.57
27	Al	65275.55	P	1225.00	1.88
39	K	6454875.00	A	85190.00	1.32
44	Ca	182953.41	P	2530.00	1.38
45	Sc	574045.63	P	9113.00	1.59
51	V	82144.21	P	796.40	0.97
52	Cr	75010.00	P	533.60	0.71
55	Mn	93953.33	P	952.70	1.01
57	Fe	199847.80	P	3723.00	1.86
59	Co	79201.11	P	533.80	0.67
60	Ni	18218.89	P	225.10	1.24
65	Cu	19340.74	P	119.30	0.62
66	Zn	12417.78	P	142.80	1.15
72	Ge	130366.00	P	827.30	0.63
75	As	9438.99	P	101.10	1.07
82	Se	633.11	P	2.78	0.44
95	Mo	17733.33	P	432.10	2.44
109	Ag	37875.56	P	593.00	1.57
111	Cd	7933.94	P	90.98	1.15
115	In	761523.38	P	6837.00	0.90
121	Sb	32206.67	P	777.40	2.41
137	Ba	12958.89	P	278.10	2.15
205	Tl	62136.66	P	2132.00	3.43
208	Pb	89111.11	P	819.50	0.92
209	Bi	540384.38	P	5293.00	0.98

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	692358.56	0.12	685997.19	100.9	80 - 120	

45	Sc	574045.56	1.59	569607.75	100.8	80 - 120
72	Ge	130366.00	0.63	126761.78	102.8	80 - 120
115	In	761523.38	0.90	747997.81	101.8	80 - 120
209	Bi	540384.38	0.98	526424.38	102.7	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0813a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\06F0813a.B\008CALI.D\008CALI.D#
Date Acquired:	Jun 8 2006 02:39 pm
Operator:	
Sample Name:	cs5,s3605
Misc Info:	
Vial Number:	1106
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update:	Jun 08 2006 02:35 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	685088.81	A	8556.00	1.25
9	Be	134453.30	P	1678.00	1.25
23	Na	67876800.00	A	390300.00	0.58
26	Mg	6019099.00	A	5012.00	0.08
27	Al	476663.31	P	8774.00	1.84
39	K	56296380.00	A	544800.00	0.97
44	Ca	1830734.00	A	30780.00	1.68
45	Sc	573024.38	P	10830.00	1.89
51	V	893018.63	A	4412.00	0.49
52	Cr	702661.13	P	12530.00	1.78
55	Mn	1008615.00	A	8264.00	0.82
57	Fe	2051407.00	A	7335.00	0.36
59	Co	807247.69	M	35280.00	4.37
60	Ni	171225.59	P	2829.00	1.65
65	Cu	188870.50	P	2947.00	1.56
66	Zn	100937.80	P	1526.00	1.51
72	Ge	131901.09	P	1773.00	1.34
75	As	94943.47	P	1238.00	1.30
82	Se	6168.89	P	75.18	1.22
95	Mo	177088.91	P	2453.00	1.39
109	Ag	375770.00	P	4528.00	1.21
111	Cd	77704.01	P	1437.00	1.85
115	In	748575.00	P	10620.00	1.42
121	Sb	321297.81	P	5499.00	1.71
137	Ba	128342.20	P	2184.00	1.70
205	Tl	641881.13	P	16270.00	2.53
208	Pb	879508.81	P	18230.00	2.07
209	Bi	532995.63	P	9965.00	1.87

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	685088.81	1.25	685997.19	99.9	80 - 120	

45	Sc	573024.38	1.89	569607.75	100.6	80 - 120
72	Ge	131901.11	1.34	126761.78	104.1	80 - 120
115	In	748575.00	1.42	747997.81	100.1	80 - 120
209	Bi	532995.56	1.87	526424.38	101.2	80 - 120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0813a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**

ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\06F0813a.B\009CALI.D\009CALI.D#
Date Acquired: Jun 8 2006 02:45 pm
Operator:
Sample Name: cs6,s3606
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Cal Update: Jun 08 2006 02:41 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	678449.19	A	5899.00	0.87
9	Be	268823.31	P	2308.00	0.86
23	Na	134496800.00	A	2754000.00	2.05
26	Mg	11933250.00	A	101000.00	0.85
27	Al	1027759.00	A	19700.00	1.92
39	K	109608300.00	A	1161000.00	1.06
44	Ca	3531679.00	A	51440.00	1.46
45	Sc	562864.38	P	8775.00	1.56
51	V	1775197.00	A	15030.00	0.85
52	Cr	1472580.00	A	5238.00	0.36
55	Mn	1958015.00	A	19950.00	1.02
57	Fe	3957152.00	A	16940.00	0.43
59	Co	1685675.00	A	6920.00	0.41
60	Ni	334898.91	P	484.70	0.14
65	Cu	368013.00	P	2239.00	0.61
66	Zn	194973.30	P	3634.00	1.86
72	Ge	130554.90	P	441.50	0.34
75	As	189257.91	P	1846.00	0.98
82	Se	12138.89	P	179.70	1.48
95	Mo	354583.31	P	3937.00	1.11
109	Ag	737268.88	P	4419.00	0.60
111	Cd	150888.30	P	2345.00	1.55
115	In	730420.69	P	9485.00	1.30
121	Sb	633215.50	P	8245.00	1.30
137	Ba	251127.80	P	2311.00	0.92
205	Tl	1383145.00	A	4193.00	0.30
208	Pb	1784630.00	A	15030.00	0.84
209	Bi	512137.69	P	5824.00	1.14

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	678449.19	0.87	685997.19	98.9	80 - 120	

45	Sc	562864.38	1.56	569607.75	98.8	80 -	120
72	Ge	130554.88	0.34	126761.78	103.0	80 -	120
115	In	730420.69	1.30	747997.81	97.7	80 -	120
209	Bi	512137.75	1.14	526424.38	97.3	80 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\06F0813a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Summary

Calibration : C:\ICPCHEM\1\DATA\06D0108A.B\60200111.C
Last Calib: Jun 08, 2006 14:46
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\06f0813a.b\003calb.d\	003calb.d#	Jun 8 2006 02:11 pm
2	...hem\1\data\06f0813a.b\004cali.d\	004cali.d#	Jun 8 2006 02:17 pm
3	...hem\1\data\06f0813a.b\005cali.d\	005cali.d#	Jun 8 2006 02:22 pm
4	...hem\1\data\06f0813a.b\006cali.d\	006cali.d#	Jun 8 2006 02:28 pm
5	...hem\1\data\06f0813a.b\007cali.d\	007cali.d#	Jun 8 2006 02:34 pm
6	...hem\1\data\06f0813a.b\008cali.d\	008cali.d#	Jun 8 2006 02:39 pm
7	...hem\1\data\06f0813a.b\009cali.d\	009cali.d#	Jun 8 2006 02:45 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	Excluded	---	ppb
Be	9	6	Y = 9.884E-2*X +5.181E-3(blank)	---	ppb
Na	23	45	Y = 5.957E-1*X +1.371E+1(blank)	---	ppb
Mg	25	45	Excluded	---	ppb
Mg	26	45	Y = 5.290E-2*X +2.574E-1(blank)	---	ppb
Al	27	45	Y = 4.378E-1*X +1.754E+0(blank)	---	ppb
K	39	45	Y = 4.839E-1*X +6.450E+1(blank)	---	ppb
Ca	43	45	Excluded	---	ppb
Ca	44	45	Y = 1.571E-2*X +5.432E-1(blank)	---	ppb
Sc	45	---	Excluded	---	ppb
V	51	72	Y = 3.392E+0*X +6.345E-1(blank)	---	ppb
Cr	52	72	Y = 2.777E+0*X +1.960E+0(blank)	---	ppb
Cr	53	72	Excluded	---	ppb
Fe	54	72	Excluded	---	ppb
Mn	55	72	Y = 3.761E+0*X +4.466E-1(blank)	---	ppb
Fe	57	72	Y = 7.592E-2*X +4.049E+0(blank)	---	ppb
Co	59	72	Y = 3.194E+0*X +1.205E-1(blank)	---	ppb
Ni	60	72	Y = 6.418E-1*X +1.946E-1(blank)	---	ppb
Cu	63	72	Excluded	---	ppb
Cu	65	72	Y = 7.057E-1*X +2.195E-1(blank)	---	ppb
Zn	66	72	Y = 3.701E-1*X +8.642E-1(blank)	---	ppb
Ge	72	---	Excluded	---	ppb
As	75	72	Y = 3.619E-1*X +5.729E-3(blank)	---	ppb
(As)	77	72	Excluded	---	ppb
Se	82	72	Y = 2.324E-2*X +6.041E-3(blank)	---	ppb
(As)	83	72	Excluded	---	ppb
(Ca)	88	72	Excluded	---	ppb
Y	89	72	Excluded	---	ppb
Mo	95	72	Y = 6.771E-1*X +6.310E-2(blank)	---	ppb
Mo	98	72	Excluded	---	ppb
(Mo)	99	72	Excluded	---	ppb
(Cd)	106	72	Excluded	---	ppb
(Cd)	108	72	Excluded	---	ppb
Ag	109	72	Y = 1.414E+0*X +2.496E-2(blank)	---	ppb
Cd	111	72	Y = 2.896E-1*X +7.089E-2(blank)	---	ppb
Cd	114	72	Excluded	---	ppb
In	115	---	Excluded	---	ppb
(In)	118	---	Excluded	---	ppb
Sb	121	115	Y = 2.162E-1*X +1.217E-2(blank)	---	ppb
Ba	135	115	Excluded	---	ppb
Ba	137	115	Y = 8.588E-2*X +4.965E-3(blank)	---	ppb
Tb	159	---	Excluded	---	ppb
Er	166	115	Excluded	---	ppb
Tl	205	209	Y = 6.595E-1*X +1.467E-1(blank)	---	ppb
(Pb)	206	209	Excluded	---	ppb
(Pb)	207	209	Excluded	---	ppb
Pb	208	209	Y = 8.617E-1*X +3.292E-2(blank)	---	ppb
Bi	209	---	Excluded	---	ppb
Th	232	209	--------	---	ppb
U	238	209	--------	---	ppb

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56229800010 File : f0813010 Time : 08-JUN-2006 14:50
Cal : 56229800002 Caldate: 08-JUN-2006
Standards: S3601

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Aluminum	1.5987	0.4432	100.0	97.25	ug/L	-3	10	
Antimony	0.2285	0.2184	100.0	101.0	ug/L	1	10	
Arsenic	0.3726	0.3713	100.0	102.6	ug/L	3	10	
Barium	0.0931	0.0869	100.0	101.1	ug/L	1	10	
Beryllium	0.1026	0.1014	100.0	102.5	ug/L	3	10	
Cadmium	0.3806	0.2998	100.0	103.3	ug/L	3	10	
Calcium	0.0204	0.0163	10000	10360	ug/L	4	10	
Chromium	3.9397	2.6889	100.0	96.13	ug/L	-4	10	
Cobalt	3.2724	3.0199	100.0	94.52	ug/L	-5	10	
Copper	0.8835	0.7186	100.0	101.5	ug/L	2	10	
Iron	0.1009	0.0791	10000	10360	ug/L	4	10	
Lead	0.8746	0.8449	100.0	98.01	ug/L	-2	10	
Magnesium	0.0533	0.0547	10000	10330	ug/L	3	10	
Manganese	4.2973	3.8851	100.0	103.2	ug/L	3	10	
Molybdenum	0.7244	0.6759	100.0	99.73	ug/L	0	10	
Nickel	0.9280	0.6525	100.0	101.4	ug/L	1	10	
Potassium	0.9101	0.5037	10000	10280	ug/L	3	10	
Selenium	0.0267	0.0239	100.0	102.5	ug/L	3	10	
Silver	1.4874	1.4495	100.0	102.5	ug/L	3	10	
Sodium	0.7033	0.6143	10000	10290	ug/L	3	10	
Thallium	0.6579	0.6256	50.00	47.20	ug/L	-6	10	
Vanadium	3.5685	3.3986	100.0	100.0	ug/L	0	10	
Zinc	1.1981	0.3883	100.0	102.6	ug/L	3	10	

ISTD (ICALBLK f0813003)	ICALBLK Abund	Abund	%Drift
Lithium	685997	680316	-0.83
Scandium	569608	564687	-0.86
Germanium	126762	130950	3.30
Indium	747998	730612	-2.32
Bismuth	526424	518698	-1.47

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56229800028 File : f0813028 Time : 08-JUN-2006 16:31
Cal : 56229800002 Caldate: 08-JUN-2006
Standards: S3602

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.5987	0.4205	100.0	92.05	ug/L	-8	10	
Antimony	0.2285	0.2154	100.0	99.56	ug/L	0	10	
Arsenic	0.3726	0.3686	100.0	101.9	ug/L	2	10	
Barium	0.0931	0.0852	100.0	99.19	ug/L	-1	10	
Beryllium	0.1026	0.0985	100.0	99.62	ug/L	0	10	
Cadmium	0.3806	0.3026	100.0	104.2	ug/L	4	10	
Calcium	0.0204	0.0162	10000	10270	ug/L	3	10	
Chromium	3.9397	2.7457	100.0	98.18	ug/L	-2	10	
Cobalt	3.2724	3.0500	100.0	95.47	ug/L	-5	10	
Copper	0.8835	0.7233	100.0	102.2	ug/L	2	10	
Iron	0.1009	0.0805	10000	10550	ug/L	6	10	
Lead	0.8746	0.8346	100.0	96.82	ug/L	-3	10	
Magnesium	0.0533	0.0500	10000	9455	ug/L	-5	10	
Manganese	4.2973	3.9746	100.0	105.6	ug/L	6	10	
Molybdenum	0.7244	0.6761	100.0	99.76	ug/L	0	10	
Nickel	0.9280	0.6587	100.0	102.3	ug/L	2	10	
Potassium	0.9101	0.4834	10000	9856	ug/L	-1	10	
Selenium	0.0267	0.0239	100.0	102.4	ug/L	2	10	
Silver	1.4874	1.4758	100.0	104.3	ug/L	4	10	
Sodium	0.7033	0.5697	10000	9541	ug/L	-5	10	
Thallium	0.6579	0.5974	50.00	45.06	ug/L	-10	10	
Vanadium	3.5685	3.3524	100.0	98.64	ug/L	-1	10	
Zinc	1.1981	0.3867	100.0	102.2	ug/L	2	10	

ISTD (ICALBLK f0813003)	ICALBLK Abund	Abund	%Drift
Lithium	685997	637859	-7.02
Scandium	569608	532426	-6.53
Germanium	126762	119583	-5.66
Indium	747998	694567	-7.14
Bismuth	526424	486212	-7.64

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56229800038 File : f0813038 Time : 08-JUN-2006 17:26
Cal : 56229800002 Caldate: 08-JUN-2006
Standards: S3602, S3310

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	1.5987	0.3829	100.0	83.46	ug/L	**-17**	10	c- ***
Antimony	0.2285	0.2179	100.0	100.7	ug/L	1	10	
Arsenic	0.3726	0.3651	100.0	100.9	ug/L	1	10	
Barium	0.0931	0.0856	100.0	99.61	ug/L	0	10	
Beryllium	0.1026	0.0983	100.0	99.43	ug/L	-1	10	
Cadmium	0.3806	0.3112	100.0	107.2	ug/L	7	10	
Calcium	0.0204	0.0163	10000	10350	ug/L	4	10	
Chromium	3.9397	2.8097	100.0	100.5	ug/L	1	10	
Cobalt	3.2724	3.0771	100.0	96.32	ug/L	-4	10	
Copper	0.8835	0.7238	100.0	102.3	ug/L	2	10	
Iron	0.1009	0.0818	10000	10720	ug/L	7	10	
Lead	0.8746	0.8336	100.0	96.70	ug/L	-3	10	
Magnesium	0.0533	0.0464	10000	8769	ug/L	**-12**	10	c- ***
Manganese	4.2973	4.0476	100.0	107.5	ug/L	8	10	
Molybdenum	0.7244	0.6851	100.0	101.1	ug/L	1	10	
Nickel	0.9280	0.6628	100.0	103.0	ug/L	3	10	
Potassium	0.9101	0.4722	10000	9626	ug/L	-4	10	
Selenium	0.0267	0.0236	100.0	101.5	ug/L	2	10	
Silver	1.4874	1.5206	100.0	107.5	ug/L	8	10	
Sodium	0.7033	0.5219	10000	8739	ug/L	**-13**	10	c- ***
Thallium	0.6579	0.6514	50.00	49.16	ug/L	-2	10	
Vanadium	3.5685	3.2496	100.0	95.61	ug/L	-4	10	
Zinc	1.1981	0.3910	100.0	103.3	ug/L	3	10	

ISTD (ICALBLK f0813003)	ICALBLK Abund	Abund	%Drift
Lithium	685997	562988	-17.93
Scandium	569608	503817	-11.55
Germanium	126762	110492	-12.83
Indium	747998	661003	-11.63
Bismuth	526424	455602	-13.45

-=low bias c=CCV

CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56229800013 File : f0813013 Time : 08-JUN-2006 15:07
Cal : 56229800002 Caldate: 08-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	ND	0.5000	2.123	ug/L	
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.01216]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.04698]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0813003)	ICALBLK Abund	Abund	%Drift
Lithium	685997	688851	0.42
Scandium	569608	566511	-0.54
Germanium	126762	128430	1.32
Indium	747998	745399	-0.35
Bismuth	526424	527128	0.13

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56229800030 File : f0813030 Time : 08-JUN-2006 16:42
Cal : 56229800002 Caldate: 08-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	1.612	0.5000	2.123	ug/L	ib ***
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	ND	0.5000	0.09029	ug/L	
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	[0.02107]	0.2500	0.009674	ug/L	!ib
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	[0.02881]	0.2500	0.008548	ug/L	!ib
Copper	ND	0.5000	0.04426	ug/L	
Iron	[10.74]	50.00	6.980	ug/L	!ib
Lead	[0.01947]	0.2500	0.005283	ug/L	!ib
Magnesium	[7.671]	50.00	3.054	ug/L	!ib
Manganese	[0.04367]	0.2500	0.01838	ug/L	!ib
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	[0.02767]	0.2500	0.01266	ug/L	!ib
Sodium	[20.60]	50.00	9.919	ug/L	!ib
Thallium	[0.03251]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0813003)	ICALBLK Abund	Abund	%Drift
Lithium	685997	650726	-5.14
Scandium	569608	533176	-6.40
Germanium	126762	118279	-6.69
Indium	747998	706188	-5.59
Bismuth	526424	492632	-6.42

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CURTIS & TOMPKINS INSTRUMENT BLANK FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56229800040 File : f0813040 Time : 08-JUN-2006 17:38
Cal : 56229800002 Caldate: 08-JUN-2006

Analyte	Quant	RL	3X IDL	Units	Flags
Aluminum	0.6324	0.5000	2.123	ug/L	ib ***
Antimony	ND	0.2500	0.03394	ug/L	
Arsenic	[0.09872]	0.5000	0.09029	ug/L	!ib
Barium	ND	0.2500	0.02391	ug/L	
Beryllium	ND	0.2500	0.009674	ug/L	
Cadmium	ND	0.2500	0.04566	ug/L	
Calcium	ND	50.00	7.739	ug/L	
Chromium	ND	0.5000	0.03860	ug/L	
Cobalt	ND	0.2500	0.008548	ug/L	
Copper	ND	0.5000	0.04426	ug/L	
Iron	ND	50.00	6.980	ug/L	
Lead	ND	0.2500	0.005283	ug/L	
Magnesium	ND	50.00	3.054	ug/L	
Manganese	ND	0.2500	0.01838	ug/L	
Molybdenum	ND	0.5000	0.4994	ug/L	
Nickel	ND	0.2500	0.03982	ug/L	
Potassium	ND	50.00	6.379	ug/L	
Selenium	ND	0.5000	0.1891	ug/L	
Silver	ND	0.2500	0.01266	ug/L	
Sodium	ND	50.00	9.919	ug/L	
Thallium	[0.1029]	0.5000	0.02100	ug/L	!ib
Vanadium	ND	0.5000	0.08283	ug/L	
Zinc	ND	0.5000	0.09577	ug/L	

ISTD (ICALBLK f0813003)	ICALBLK Abund	Abund	%Drift
Lithium	685997	572210	-16.59
Scandium	569608	509584	-10.54
Germanium	126762	110645	-12.71
Indium	747998	681676	-8.87
Bismuth	526424	461887	-12.26

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CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56229800014 File : f0813014 Time : 08-JUN-2006 15:13
Cal : 56229800002 Caldate: 08-JUN-2006
Standards: S3612, S3310

Analyte	Quant	RL	Units	Flags
Antimony	2.236	0.2500	ug/L	
Arsenic	0.9069	0.5000	ug/L	
Barium	0.9471	0.2500	ug/L	
Beryllium	[0.01440]	0.2500	ug/L	
Cadmium	[0.09125]	0.2500	ug/L	
Chromium	1.372	0.5000	ug/L	
Cobalt	2.576	0.2500	ug/L	
Copper	1.934	0.5000	ug/L	
Lead	1.196	0.2500	ug/L	
Manganese	0.9427	0.2500	ug/L	
Nickel	1.665	0.2500	ug/L	
Selenium	0.5550	0.5000	ug/L	
Silver	[0.1565]	0.2500	ug/L	
Thallium	[0.1178]	0.5000	ug/L	
Vanadium	[0.1208]	0.5000	ug/L	
Zinc	3.452	0.5000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	86160	ug/L	86
Calcium	300000	295100	ug/L	98
Iron	250000	239100	ug/L	96
Magnesium	100000	89230	ug/L	89
Molybdenum	2000	1999	ug/L	100
Potassium	100000	94330	ug/L	94
Sodium	250000	215500	ug/L	86

ISTD (ICALBLK f0813003)	ICALBLK Abund	Abund	%Drift
Lithium	685997	546768	-20.30
Scandium	569608	499086	-12.38
Germanium	126762	113227	-10.68
Indium	747998	609007	-18.58
Bismuth	526424	416617	-20.86

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56229800015 File : f0813015 Time : 08-JUN-2006 15:18
Cal : 56229800002 Caldate: 08-JUN-2006
Standards: S3620, S3310

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	83120	ug/L	-17		
Arsenic	100.0	110.2	ug/L	10	20	
Cadmium	100.0	102.7	ug/L	3	20	
Calcium	300000	292400	ug/L	-3		
Chromium	200.0	222.1	ug/L	11	20	
Cobalt	200.0	214.8	ug/L	7	20	
Copper	200.0	201.6	ug/L	1	20	
Iron	250000	238400	ug/L	-5		
Magnesium	100000	85300	ug/L	-15		
Manganese	200.0	220.0	ug/L	10	20	
Molybdenum	2000	1998	ug/L	0		
Nickel	200.0	204.2	ug/L	2	20	
Potassium	100000	91720	ug/L	-8		
Selenium	100.0	99.40	ug/L	-1	20	
Silver	50.00	51.88	ug/L	4	20	
Sodium	250000	207200	ug/L	-17		
Vanadium	200.0	225.9	ug/L	13	20	
Zinc	100.0	111.7	ug/L	12	20	

ISTD (ICALBLK f0813003)	ICALBLK Abund	Abund	%Drift
Scandium	569608	486231	-14.64
Germanium	126762	109702	-13.46

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56229800033 File : f0813033 Time : 08-JUN-2006 16:59
Cal : 56229800002 Caldate: 08-JUN-2006
Standards: S3612, S3310

Analyte	Quant	RL	Units	Flags
Antimony	2.218	0.2500	ug/L	
Arsenic	0.9186	0.5000	ug/L	
Barium	0.9623	0.2500	ug/L	
Beryllium	[0.01722]	0.2500	ug/L	
Cadmium	[0.07568]	0.2500	ug/L	
Chromium	1.387	0.5000	ug/L	
Cobalt	2.610	0.2500	ug/L	
Copper	1.929	0.5000	ug/L	
Lead	1.194	0.2500	ug/L	
Manganese	1.005	0.2500	ug/L	
Nickel	1.708	0.2500	ug/L	
Selenium	[0.3914]	0.5000	ug/L	
Silver	[0.1780]	0.2500	ug/L	
Thallium	[0]	0.5000	ug/L	
Vanadium	[0.1620]	0.5000	ug/L	
Zinc	3.671	0.5000	ug/L	

Interferent	Spiked	Quant	Units	%Rec
Aluminum	100000	77330	ug/L	77
Calcium	300000	291300	ug/L	97
Iron	250000	240500	ug/L	96
Magnesium	100000	79370	ug/L	79
Molybdenum	2000	2029	ug/L	101
Potassium	100000	91030	ug/L	91
Sodium	250000	192500	ug/L	77

ISTD (ICALBLK f0813003)	ICALBLK Abund	Abund	%Drift
Lithium	685997	485161	-29.28
Scandium	569608	478008	-16.08
Germanium	126762	103635	-18.24
Indium	747998	588472	-21.33
Bismuth	526424	394112	-25.13

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR EPA 6020

Inst : MET05 IDF : 1.0
Seqnum : 56229800034 File : f0813034 Time : 08-JUN-2006 17:04
Cal : 56229800002 Caldate: 08-JUN-2006
Standards: S3620, S3310

Analyte	Spiked	Quant	Units	%D	Max %D	Flags
Aluminum	100000	75080	ug/L	-25		
Arsenic	100.0	108.9	ug/L	9	20	
Cadmium	100.0	105.9	ug/L	6	20	
Calcium	300000	290600	ug/L	-3		
Chromium	200.0	227.3	ug/L	14	20	
Cobalt	200.0	214.5	ug/L	7	20	
Copper	200.0	199.7	ug/L	0	20	
Iron	250000	241500	ug/L	-3		
Magnesium	100000	76700	ug/L	-23		
Manganese	200.0	223.5	ug/L	12	20	
Molybdenum	2000	2026	ug/L	1		
Nickel	200.0	203.6	ug/L	2	20	
Potassium	100000	89690	ug/L	-10		
Selenium	100.0	99.55	ug/L	0	20	
Silver	50.00	53.49	ug/L	7	20	
Sodium	250000	187400	ug/L	-25		
Vanadium	200.0	230.2	ug/L	15	20	
Zinc	100.0	111.1	ug/L	11	20	

ISTD (ICALBLK f0813003)	ICALBLK Abund	Abund	%Drift
Scandium	569608	453849	-20.32
Germanium	126762	97890	-22.78

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56229800 Instrument: MET05 Agilent ICP-MS Begun: 08-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	f0813001	TUN				08-JUN-2006 14:00	1.0	1.0			1	
002	f0813002	X	RINSE			08-JUN-2006 14:06	1.0				2	
003	f0813003	ICALBLK	STD-BLK			08-JUN-2006 14:11	1.0	1.0			2	
004	f0813004	ICAL	CS1			08-JUN-2006 14:17	1.0	1.0			3	
005	f0813005	ICAL	CS2			08-JUN-2006 14:22	1.0	1.0			4	
006	f0813006	ICAL	CS3			08-JUN-2006 14:28	1.0	1.0			5	
007	f0813007	ICAL	CS4			08-JUN-2006 14:34	1.0	1.0			6	
008	f0813008	ICAL	CS5			08-JUN-2006 14:39	1.0	1.0			7	
009	f0813009	ICAL	CS6			08-JUN-2006 14:45	1.0	1.0			8	
010	f0813010	ICV				08-JUN-2006 14:50	1.0	1.0		1	9	
011	f0813011	X	RINSE			08-JUN-2006 14:56	1.0				2	
012	f0813012	X				08-JUN-2006 15:02	1.0	1.0		1	2	
013	f0813013	ICB				08-JUN-2006 15:07	1.0	1.0		1	2	
014	f0813014	ICSA				08-JUN-2006 15:13	1.0	1.0		1	10 2	7:CA=295100
015	f0813015	ICSAB				08-JUN-2006 15:18	1.0	1.0		1	11 2	13:CA=292200
016	f0813016	X	RINSE			08-JUN-2006 15:24	1.0				2	
017	f0813017	X	RINSE			08-JUN-2006 15:29	1.0				2	
018	f0813018	SAMPLE	187112-005	113957	Water	08-JUN-2006 15:35	1.0	1.0		1	2	5:NA=133300
019	f0813019	SAMPLE	187112-006	113957	Filtra	08-JUN-2006 15:41	1.0	1.0	2	1	2	2:NA=191900
020	f0813020	SAMPLE	187112-007	113957	Filtra	08-JUN-2006 15:46	1.0	1.0	2	1	2	2:NA=200500
021	f0813021	SAMPLE	187112-008	113957	Filtra	08-JUN-2006 15:52	1.0	1.0	2	1	2	2:NA=179700
022	f0813022	SAMPLE	187112-009	113957	Filtra	08-JUN-2006 15:57	1.0	1.0	2	1	2	2:NA=207900
023	f0813023	SAMPLE	187112-010	113957	Filtra	08-JUN-2006 16:03	1.0	1.0	2	1	2	2:NA=109100
024	f0813024	SAMPLE	187112-011	113957	Filtra	08-JUN-2006 16:09	1.0	1.0		1	2	
025	f0813025	SAMPLE	187112-012	113957	Filtra	08-JUN-2006 16:14	1.0	1.0	4	1	2	4:NA=188200
026	f0813026	X	RINSE			08-JUN-2006 16:20	1.0				2	
027	f0813027	X				08-JUN-2006 16:25	1.0	1.0	1	1	12	
028	f0813028	CCV				08-JUN-2006 16:31	1.0	1.0		1	12	
029	f0813029	X	RINSE			08-JUN-2006 16:36	1.0				2	
030	f0813030	CCB				08-JUN-2006 16:42	1.0	1.0	1	1	2	
031	f0813031	SAMPLE	187112-013	113957	Water	08-JUN-2006 16:48	1.0	1.0	3	1	2	

Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3602 13=S3621

Analyst: K Carlyon Date: 6/8/06

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 56229800 Instrument: MET05 Agilent ICP-MS Begun: 08-JUN-2006
Analytical Method: EPA 6020 SOP Version: 6020_rv2

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	f0813032	SAMPLE	187137-001	113957	Filtra	08-JUN-2006 16:53	1.0	1.0	3		1	2	
033	f0813033	ICSA				08-JUN-2006 16:59	1.0	1.0			1	10 2	7:CA=291300
034	f0813034	ICSAB				08-JUN-2006 17:04	1.0	1.0			1	11 2	12:CA=290600
035	f0813035	X	RINSE			08-JUN-2006 17:10	1.0					2	
036	f0813036	X				08-JUN-2006 17:15	1.0					13 2	
037	f0813037	X	RINSE			08-JUN-2006 17:21	1.0					2	
038	f0813038	CCV				08-JUN-2006 17:26	1.0	1.0	3		1	12 2	
039	f0813039	X				08-JUN-2006 17:32	1.0					2	
040	f0813040	CCB				08-JUN-2006 17:38	1.0	1.0	1		1	2	

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Stds used: 1=S3622 2=S3310 3=S3608 4=S3609 5=S3610 6=S3611 7=S3605 8=S3606 9=S3601 10=S3612 11=S3620 12=S3602 13=S3621

Analyst: K Carlyn Date: 6/8/06

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

:equence Date: 06-JUN-2006
Sequence: 56226997 (f0615)
:nstrument ID: MET05

ICALBLK Filename: f0615003
Date Analyzed: 06-JUN-2006
Time Analyzed: 15:29

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD	409002	289167	59725	466498	483064	713607
LOWER LIMIT	122701	86750	17918	139949	144919	214082
UPPER LIMIT	490803	347000	71670	559798	579677	856328

TYPE	SAMPLE	#						
ICB		013	405030	290944	59491	466354	479114	713124
ICSA		014	337424	261874	52719	388104	386523	636202
SAMPLE	187072-010	018	412742	292786	61626	492719	512976	752212
SAMPLE	187070-007	019	303116	241743	47705	383577	376546	627086
SAMPLE	187070-009	020	386872	292762	56695	425196	396106	681591
SAMPLE	187070-009	022	442871	333333	63210	450973	406632	719436
SAMPLE	187070-007	023	415974	321448	61258	444879	413090	709222
CCV		026	384100	277360	58969	441948	455501	689881
CCB		029	391597	284453	59742	456195	471452	689919
ICSA		030	322707	251638	52181	381882	380000	617352
BLANK	QC342079	034	382501	265449	55626	394739	398608	596558
BS	QC342080	035	387279	275922	56467	402202	407346	628960
BSD	QC342081	036	394347	278613	56841	398783	401604	624068
CCV		037	427199	307673	63320	459278	461141	706889
CCB		039	430212	301447	61676	453145	455232	685153
MSS	187020-001	041	379233	279547	54590	377886	369301	598714
SER	QC342084	042	411044	293063	59874	434491	432844	668002
MS	QC342082	043	391370	284302	55572	377875	370883	607782
MSD	QC342083	044	375553	281803	55451	378524	372506	607261
PDS	QC342085	045	384810	282307	54727	378281	371629	607903
SAMPLE	187020-002	047	375748	275318	55021	382216	376261	601648
SAMPLE	187020-003	048	394976	284741	56569	393073	385692	611151
SAMPLE	187020-004	049	417114	291080	59060	401327	395509	621821
SAMPLE	187020-005	050	406248	285483	55879	382695	374892	604667
SAMPLE	187020-006	051	388553	280379	55590	383800	378059	600618
CCV		053	444276	310377	62882	446223	448979	689988
CCB		056	460363	310703	62428	449303	447419	676982
SAMPLE	187020-007	057	382723	275397	54488	371760	368096	586843

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

:equence Date: 06-JUN-2006
Sequence: 56226997 (f0615)
:nstrument ID: MET05

ICALBLK Filename: f0615003
Date Analyzed: 06-JUN-2006
Time Analyzed: 15:29

TYPE	SAMPLE	#						
SAMPLE	187020-008	058	387441	280813	55263	376933	374534	595364
SAMPLE	187020-009	059	387563	276616	54727	373828	370104	590463
SAMPLE	187020-010	060	374879	269417	53699	368826	367094	582972
SAMPLE	187020-011	061	376357	266087	54036	383991	385641	596281
SAMPLE	187020-012	062	366293	260157	52923	367246	367178	574873
SAMPLE	187020-013	063	364592	262838	52916	361443	363517	575190
SAMPLE	187020-014	064	364614	263794	51933	351957	345738	562732
SAMPLE	187020-015	065	353711	255904	50809	354787	347287	563969
SAMPLE	187020-011	066	363721	268770	51881	368195	363981	572293
CCV		068	423136	300524	60098	430691	435798	668061
CCB		070	422919	296271	59815	436500	431133	657887
SAMPLE	187020-012	072	375618	275494	53670	370198	367551	583181
SAMPLE	187020-013	073	362422	266677	52426	360001	358934	572319
SAMPLE	187020-014	074	363728	275968	52337	355670	343677	571908
SAMPLE	187020-015	075	376618	273979	53128	363124	351044	576149
ICSA		076	365672	276093	54486	371501	352538	596192
CCV		080	438729	307478	61802	419369	419288	645817
CCB		082	458286	311790	61314	428779	421616	642438
BLANK	QC342089	084	421819	273496	56108	354668	351264	535874
BS	QC342090	085	412951	283114	56242	371794	365868	573354
BSD	QC342091	086	437139	296299	58410	389220	382719	600151
MSS	187112-002	088	397101	283443	55022	363536	354937	565044
SER	QC342094	089	425770	297272	59305	412227	401117	626219
MS	QC342092	090	392164	282917	54847	357553	352764	563211
MSD	QC342093	091	385437	277028	54145	351877	348486	558311
PDS	QC342095	092	389117	277526	53871	354305	345236	560064
SAMPLE	187112-003	094	353001	253001	48273	320891	307108	513310
SAMPLE	187112-004	095	364202	262421	50067	332033	325628	527480
CCV		097	383973	268938	54816	376955	383230	580717
CCB		100	399070	274403	54752	385914	380916	578910
SAMPLE	187112-005	101	330947	237437	47677	319876	311636	503180
SAMPLE	187112-006	102	354268	256934	50162	333499	315166	519528
SAMPLE	187112-007	103	368190	260463	50725	329172	310880	515781
SAMPLE	187112-008	104	348459	255893	49451	327528	313539	508520

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 06-JUN-2006
Sequence: 56226997 (f0615)
Instrument ID: MET05

ICALBLK Filename: f0615003
Date Analyzed: 06-JUN-2006
Time Analyzed: 15:29

TYPE	SAMPLE	#						
SAMPLE	187112-009	105	289000	215301	43182	304650	293780	468504
SAMPLE	187112-010	106	308420	224406	45072	308367	297576	472770
SAMPLE	187112-011	107	331517	225397	46831	321511	318613	475692
SAMPLE	187112-012	108	303457	227559	44761	301271	286114	468234
SAMPLE	187112-013	109	360927	244446	50346	321277	309211	476180
SAMPLE	187137-001	110	366326	246329	49986	326152	312928	485269
CCV		112	369084	261829	53130	360394	355399	547559
CCB		114	387552	267846	53474	376163	362491	554189
SAMPLE	187020-017	116	350288	253729	50143	330715	314591	507530
SAMPLE	187020-018	117	343957	247884	48950	327664	308792	500517
SAMPLE	187020-019	118	316662	231002	46681	315638	301316	485396
SAMPLE	187020-020	119	323777	236057	47252	316326	301658	486339
CCV		121	382792	269839	54671	370146	361298	553952
CCB		124	410496	275257	55531	379673	363170	555920
ICSA		125	334000	249097	49456	314078	288621	493329

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INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 07-JUN-2006
Sequence: 56228694 (f0719)
Instrument ID: MET05

ICALBLK Filename: f0719003
Date Analyzed: 07-JUN-2006
Time Analyzed: 19:46

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD	566835	419934	79792	561698	398573	726836
LOWER LIMIT	170050	125980	23938	168509	119572	218051
UPPER LIMIT	680202	503921	95751	674038	478288	872203

TYPE	SAMPLE	#						
ICB		013	579739	431764	82073	564734	393207	718414
ICSA		014	513772	395752	75735	451332	302884	603617
SAMPLE	187020-012	018	460911	360243	68520	447641	312288	595119
SAMPLE	187020-013	019	484002	389884	73132	463307	313409	611197
SAMPLE	187020-014	020	511257	410808	74491	460870	303054	615000
SAMPLE	187020-015	021	521768	403010	76708	457678	294153	589628
BLANK	QC342089	023	468786	342322	71622	425845	288230	519894
BS	QC342090	024	493866	364672	73239	442858	302859	554864
BSD	QC342091	025	499968	376097	76223	462142	312914	574288
MSS	187112-002	027	494050	383732	75998	448780	292623	557746
CCV		029	589256	441137	89884	542647	362193	668308
CCB		032	585541	435921	89095	549915	365191	661042
SER	QC342094	033	550393	413751	84827	508669	334799	616738
MS	QC342092	034	510680	394872	78726	448148	292270	563047
MSD	QC342093	035	518079	399691	79255	452110	294619	569079
PDS	QC342095	036	522618	402810	79873	456002	298598	576367
SAMPLE	187020-017	038	534093	402880	80567	468430	305630	577898
SAMPLE	187020-018	039	575912	440309	90066	510920	326848	623550
SAMPLE	187020-019	040	583549	441758	91322	508543	321866	616258
SAMPLE	187020-020	041	599455	451381	94285	518217	328961	624859
SAMPLE	187112-003	042	626502	454400	92851	500868	310516	610504
SAMPLE	187112-004	043	604312	451488	93132	502716	315690	607481
CCV		045	646109	458284	99594*	564032	365276	662236
CCB		047	630393	454676	95329	556845	356384	642150
SAMPLE	187112-005	049	560961	428724	90545	483874	298443	574529
SAMPLE	187112-006	050	573181	430418	89754	488901	300582	584134

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* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 07-JUN-2006
Sequence: 56228694 (f0719)
Instrument ID: MET05

ICALBLK Filename: f0719003
Date Analyzed: 07-JUN-2006
Time Analyzed: 19:46

TYPE	SAMPLE	#							
SAMPLE	187112-007	051	588271	431009	89568	489796	299448	587431	
SAMPLE	187112-008	052	584236	440067	88809	494720	307523	596401	
SAMPLE	187112-009	053	569042	420096	84443	479691	303184	582931	
SAMPLE	187112-010	054	597607	443077	90086	506977	320800	616832	
SAMPLE	187112-011	055	618632	427157	91429	525202	341589	609734	
SAMPLE	187112-012	056	598254	453208	92260	504681	311368	611766	
SAMPLE	187112-013	057	608697	423234	94157	509926	320724	574187	
SAMPLE	187137-001	058	601018	423770	93031	515950	326410	581784	
CCV		060	669362	472200	103053*	574789	368073	665721	
CCB		063	665970	467206	100307*	572606	359429	648117	
ICSA		064	582442	446502	92559	488271	302387	611528	
CCV		067	614815	453713	96086*	549478	357278	658781	
CCB		069	623227	443496	95152	553396	355768	644409	
BLANK	QC342503	071	503633	360247	82154	437998	281146	505050	375
BS	QC342504	072	543666	392497	85180	472023	301976	554148	
BSD	QC342505	073	536106	391489	85034	470542	297984	550752	
CCV		084	577783	421962	91670	508342	323706	589349	
CCB		087	598292	423876	91533	521935	326804	589941	

* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 08-JUN-2006
Sequence: 56229800 (f0813)
Instrument ID: MET05

ICALBLK Filename: f0813003
Date Analyzed: 08-JUN-2006
Time Analyzed: 14:11

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
ICALBLK STD	685997	569608	126762	747998	526424	1037223
LOWER LIMIT	205799	170882	38029	224399	157927	311167
UPPER LIMIT	823197	683529	152114	897597	631709	1244668

TYPE	SAMPLE	#						
ICB		013	688851	566511	128430	745399	527128	1028620
ICSA		014	546768	499086	113227	609007	416617	848730
SAMPLE	187112-005	018	536573	459158	103500	579995	388894	743593
SAMPLE	187112-006	019	521381	466540	101398	581014	383717	744206
SAMPLE	187112-007	020	538389	470691	102856	582886	385458	747849
SAMPLE	187112-008	021	543463	489297	104787	598442	394347	767050
SAMPLE	187112-009	022	534460	472502	102223	591616	394516	749579
SAMPLE	187112-010	023	530594	484212	103200	600190	399853	769612
SAMPLE	187112-011	024	537253	458123	99749	601673	416173	750357
SAMPLE	187112-012	025	522201	459124	100257	566166	379492	734372
CCV		028	637859	532426	119583	694567	486212	940484
CCB		030	650726	533176	118279	706188	492632	957557
SAMPLE	187112-013	031	534940	421520	103092	557022	386444	680239
SAMPLE	187137-001	032	536354	431216	102604	570972	389736	697288
ICSA		033	485161	478008	103635	588472	394112	781173
CCV		038	562988	503817	110492	661003	455602	883942
CCB		040	572210	509584	110645	681676	461887	897931

376

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187137 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
187137-001	MET05	06/07/06 01:41	1.0		+								+									+		+		
187137-001	MET08	06/07/06 17:21	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
187137-001	MET05	06/08/06 00:53	1.0																							
187137-001	MET05	06/08/06 16:53	1.0						+																	
187137-001	MET14	06/09/06 14:05	1.0															+								
QC342089	MET05	06/06/06 23:15	1.0		+								+									+		+		
QC342089	MET08	06/07/06 15:17	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342089	MET05	06/07/06 21:37	1.0						+																	
QC342090	MET05	06/06/06 23:21	1.0		+								+									+		+		
QC342090	MET08	06/07/06 15:21	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342090	MET05	06/07/06 21:43	1.0						+																	
QC342091	MET05	06/06/06 23:27	1.0		+								+									+		+		
QC342091	MET08	06/07/06 18:29	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342091	MET05	06/07/06 21:48	1.0						+																	
QC342092	MET05	06/06/06 23:49	1.0		+								+									+		+		
QC342092	MET08	06/07/06 15:48	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342092	MET08	06/07/06 15:57	1.0																							
QC342092	MET05	06/07/06 22:39	1.0						+																	
QC342093	MET05	06/06/06 23:55	1.0		+								+									+		+		
QC342093	MET08	06/07/06 15:50	1.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342093	MET08	06/07/06 15:59	1.0																							
QC342093	MET05	06/07/06 22:44	1.0						+																	
QC342094	MET05	06/06/06 23:44	5.0		+								+									+		+		
QC342094	MET08	06/07/06 15:52	5.0	+		+	+	+		+	+	+		+	+	+	+		+	+	+		+		+	+
QC342094	MET05	06/07/06 22:33	5.0						+																	
QC342095	MET05	06/07/06 00:00	1.0		+	+	+	+			+	+	+	+	+		+		+	+	+	+		+	+	+
QC342095	MET08	06/07/06 16:01	1.0	+						+						+							+			
QC342095	MET05	06/07/06 22:50	1.0						+																	
QC343401	MET14	06/09/06 13:29	1.0															+								
QC343402	MET14	06/09/06 13:31	1.0															+								
QC343403	MET14	06/09/06 13:33	1.0															+								
QC343404	MET14	06/09/06 13:37	1.0															+								
QC343405	MET14	06/09/06 13:39	1.0															+								

Curtis & Tompkins Laboratories **Sample Preparation Summary** **31-MAY-2006 10:28**

Batch Number : 113957
Date Extracted: 31-MAY-2006
Extracted by : Kevin Gaines
Prep Method : 200.8

Analysis : N/A
Bgroup : ICAP
Units : mL
Clean-up :

Spike #1 ID : S3085
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
187020-017			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
187020-018			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
187020-019			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
187020-020			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
187112-002			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				15MET		
187112-003			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				14MET		
187112-004			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				14MET		
187112-005			Treadwell & Rollo	Water	50	mL	50	1.000000	1				AG, AS, CD, (more)		
187112-006			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
187112-007			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
187112-008			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
187112-009			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
187112-010			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
187112-011			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
187112-012			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
187112-013			Treadwell & Rollo	Water	50	mL	50	1.000000	1				TAL/ICP		
187137-001			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1				TAL/ICP		
QC342089	BLANK			Filtrate	50	mL	50	1.000000	1				ICAP		
QC342090	BS			Filtrate	50	mL	50	1.000000	1	.5			ICAP		
QC342091	BSD			Filtrate	50	mL	50	1.000000	1	.5			ICAP		
QC342092	MS	of 187112-002		Filtrate	50	mL	50	1.000000	1	.5			ICAP		
QC342093	MSD	of 187112-002		Filtrate	50	mL	50	1.000000	1	.5			ICAP		
QC342094	SER	of 187112-002		Filtrate	50	mL	50	1.000000	1				ICAP		
QC342095	PDS	of 187112-002		Filtrate	50	mL	50	1.000000	1				ICAP		

Prep Chemist: [illegible] 5/31/06 Reviewed By: K Carlyon Date: 6/7/06

Relinquished By: [illegible] 5/31/06 Received By: K Carlyon Date: 6/7/06

Water Digestion for ICP-MS Curtis & Tompkins, Ltd.

LIMS Batch #: 113957
Date Digested: 5/31/06
Digested by: [illegible]

Digestion Method
☒ EPA 200.8 for ICP-MS
☐ _____

BK BK 2318
Page 24
Continued From: _____
Continued On: _____

Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BLK	50	50	N	
BS				
BSD				
MS -02				FIELD FILTERED
MSD -02				
137112-02				
-03 A				
-04				
-05 C				TOTALS
-06 A				FIELD FILTERED
-07				
-08				
-09				
-10				
-11				
-12				
-13				TOTALS
137-01 H				FIELD FILTERED
020-17D				
18 A				
19				
20				

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90-95 degrees C)	95	[illegible] 5/31
.5 mL of spike solution was added to all spikes	53085	
concentrated HCl	B49025 BAKER	
concentrated HNO3	000020	
☐ filtered thru' Whatman # 541		

[illegible] 5/31/06
Prep Chemist Signature / Date

[illegible] 5/31/06
Reviewer Signature / Date

CURTIS & TOMPKINS INITIAL CALIBRATION FOR EPA 7470A

Inst : MET14
Calnum : 846231190001
Units : ug/L

Date : 09-JUN-2006 13:10
X Axis : R

Reviewer: ---
Type : WATER

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	114273	846231190002	STD02REP1	09-JUN-2006 13:12	S3662 (500X)
L2	114273	846231190003	STD03REP1	09-JUN-2006 13:14	S3662 (200X)
L3	114273	846231190004	STD04REP1	09-JUN-2006 13:17	S3662 (50X)
L4	114273	846231190005	STD05REP1	09-JUN-2006 13:19	S3662 (20X)
L5	114273	846231190006	STD06REP1	09-JUN-2006 13:22	S3662 (10X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Mercury	3255.0	2850.0	2802.5	2729.8	2648.6	LINR	-0.0736	3.78E-4		2857.2	1.000	.99	

380

Instrument amount = a0 + response * a1 + response^2 * a2; LINR=Linear regression

846231190001

WinHg Database 1.5

File Utility Help

Protocol hgppb

Dataset/Proto 060906 /hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 3.78311e-4

C -7.35870e-2

Rho .999899

Type Linear

Calibrated

Accepted

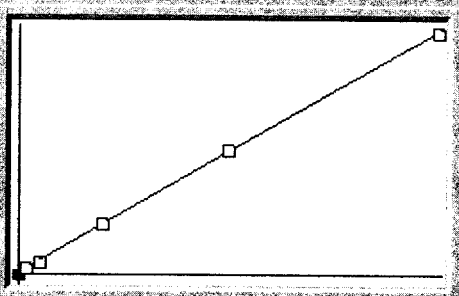
Accept

μ Abs.

26486

Accepted

New



09-Jun-06 13:22 Conc. 10.0

Include S1 Rep 1 2 3 4 5

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.021	-.021	138	1	138		
02	.20000	.173	-.027	651	0%	651		
03	.50000	.466	-.034	1426	0%	1425		
04	2.0000	2.05	.047	5606	0%	5605		
05	5.0000	5.09	.090	13650	0%	13649		
06	10.000	9.95	-.054	26487	0%	26486		

Ready NUM

Protocol: hgppb

POST-RUN REPORT

```
Line    Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Standard: 1 Rep: 1              Seq:  1       13:10:37 09 Jun 06   HG

Hg     .000    ppb      138
               Bkgd 1   21161195

*** Standard: 2 Rep: 1              Seq:  2       13:12:41 09 Jun 06   HG

Hg     .200    ppb      651
               Bkgd 1   21153129

*** Standard: 3 Rep: 1              Seq:  3       13:14:49 09 Jun 06   HG

Hg     .500    ppb      1425
               Bkgd 1   21147795

*** Standard: 4 Rep: 1              Seq:  4       13:17:24 09 Jun 06   HG

Hg     2.00    ppb      5605
               Bkgd 1   21151668

*** Standard: 5 Rep: 1              Seq:  5       13:19:53 09 Jun 06   HG

Hg     5.00    ppb      13649
               Bkgd 1   21145850

*** Standard: 6 Rep: 1              Seq:  6       13:22:12 09 Jun 06   HG

Hg     10.0    ppb      26486
               Bkgd 1   21137802

*** Check Standard: 2  Ck2S3664     Seq:  7       13:24:18 09 Jun 06   HG
Line   Flag            Intensities
Hg                     13231
               Bkgd 1   21124126

*** Check Standard: 1  Ck1ICB       Seq:  8       13:26:44 09 Jun 06   HG
Line   Flag            Intensities
Hg                     -66
               Bkgd 1   21136424

*** Sample ID: qc343401             Seq:  9       13:29:08 09 Jun 06   HG
                           114273,1
Hg    -.054    ppb      53
               Bkgd 1   21155040

=============================================================================
```

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

equence: 846231190 Instrument: MET14 HydraAA HG Analyzer MET14 Begun: 09-JUN-2006
nalytical Method: EPA 7470A SOP Version: HG_water_rv7
nalyte: Mercury

	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
1	114273	ICALBLK	STD01REP1				09-JUN-2006 13:10	1.0	1.0									
2	114273	ICAL	STD02REP1				09-JUN-2006 13:12	1.0	1.0									
3	114273	ICAL	STD03REP1				09-JUN-2006 13:14	1.0	1.0									
4	114273	ICAL	STD04REP1				09-JUN-2006 13:17	1.0	1.0									
5	114273	ICAL	STD05REP1				09-JUN-2006 13:19	1.0	1.0									
6	114273	ICAL	STD06REP1				09-JUN-2006 13:22	1.0	1.0									
7	114273	ICV					09-JUN-2006 13:24	1.0	1.0	2	5.000	846231190001	4.930		ug/L	99		
8	114273	ICB					09-JUN-2006 13:26	1.0	1.0			846231190001	ND	0.20	ug/L			
9	114273	BLANK	QC343401		114273	Water	09-JUN-2006 13:29	1.0	1.0			846231190001	ND	0.20	ug/L			u
0	114273	BS	QC343402		114273	Water	09-JUN-2006 13:31	1.0	1.0		5.000	846231190001	5.140	0.20	ug/L	103		u
1	114273	BSD	QC343403		114273	Water	09-JUN-2006 13:33	1.0	1.0		5.000	846231190001	5.120	0.20	ug/L	102	0	u
2	114273	MSS	187166-009		114273	Filtra	09-JUN-2006 13:35	1.0	1.0			846231190001	ND	0.20	ug/L			u
3	114273	MS	QC343404	187166-009	114273	Filtra	09-JUN-2006 13:37	1.0	1.0		5.000	846231190001	5.190	0.20	ug/L	104		u
4	114273	MSD	QC343405	187166-009	114273	Filtra	09-JUN-2006 13:39	1.0	1.0		5.000	846231190001	5.170	0.20	ug/L	103	0	u
5	114273	XXX	RINSE		114273	Water	09-JUN-2006 13:42	1.0										
6	114273	SAMPLE	187127-001		114273	Water	09-JUN-2006 13:53	10.0	1.0			846231190001	ND	2.0	ug/L			u
7	114273	SAMPLE	187127-002		114273	Water	09-JUN-2006 13:55	1.0	1.0			846231190001	ND	0.20	ug/L			u
8	114273	SAMPLE	187127-003		114273	Water	09-JUN-2006 13:58	1.0	1.0			846231190001	ND	0.20	ug/L			u
9	114273	CCV					09-JUN-2006 14:00	1.0	1.0	3	2.500	846231190001	2.220		ug/L	89		
0	114273	CCB					09-JUN-2006 14:02	1.0	1.0			846231190001	ND	0.20	ug/L			
1	114273	SAMPLE	187137-001		114273	Filtra	09-JUN-2006 14:05	1.0	1.0			846231190001	ND	0.20	ug/L			u
2	114273	SAMPLE	187166-008		114273	Filtra	09-JUN-2006 14:07	1.0	1.0			846231190001	ND	0.20	ug/L			u
3	114273	SAMPLE	187166-010		114273	Filtra	09-JUN-2006 14:09	1.0	1.0			846231190001	ND	0.20	ug/L			u
4	114273	SAMPLE	187203-002		114273	Water	09-JUN-2006 14:12	1.0	1.0			846231190001	7.1	0.20	ug/L			u
5	114273	SAMPLE	187203-008		114273	Water	09-JUN-2006 14:14	1.0	1.0			846231190001	ND	0.20	ug/L			u
6	114273	SAMPLE	187207-002		114273	Filtra	09-JUN-2006 14:16	1.0	1.0			846231190001	ND	0.20	ug/L			u
7	114273	SAMPLE	187207-003		114273	Filtra	09-JUN-2006 14:20	1.0	1.0			846231190001	0.031 J	0.20	ug/L			u
8	114273	SAMPLE	187207-004		114273	Filtra	09-JUN-2006 14:22	1.0	1.0			846231190001	ND	0.20	ug/L			u
9	114273	SAMPLE	187207-005		114273	Filtra	09-JUN-2006 14:24	1.0	1.0			846231190001	ND	0.20	ug/L			u
0	114273	SAMPLE	187207-006		114273	Filtra	09-JUN-2006 14:27	1.0	1.0			846231190001	ND	0.20	ug/L			u
1	114273	CCV					09-JUN-2006 14:30	1.0	1.0	4	5.000	846231190001	5.130		ug/L	103		
2	114273	CCB					09-JUN-2006 14:32	1.0	1.0			846231190001	ND	0.20	ug/L			
3	114273	SAMPLE	187221-001		114273	Water	09-JUN-2006 14:34	1.0	1.0			846231190001	8.7	0.20	ug/L			u
4	114273	SAMPLE	187221-003		114273	Water	09-JUN-2006 14:36	1.0	1.0			846231190001	5.0	0.20	ug/L			u
5	114273	SAMPLE	187298-010		114273	Filtra	09-JUN-2006 14:38	1.0	1.0			846231190001	ND	0.20	ug/L			u
6	114273	SAMPLE	187298-014		114273	Filtra	09-JUN-2006 14:40	1.0	1.0			846231190001	ND	0.20	ug/L			u
7	114273	SAMPLE	187329-007		114273	Filtra	09-JUN-2006 14:43	1.0	1.0			846231190001	ND	0.20	ug/L			u
8	114273	SAMPLE	187329-016		114273	Filtra	09-JUN-2006 14:45	1.0	1.0			846231190001	ND	0.20	ug/L			u
9	114273	CCV					09-JUN-2006 14:48	1.0	1.0	5	7.500	846231190001	7.160		ug/L	95		
0	114273	CCB					09-JUN-2006 14:50	1.0	1.0			846231190001	ND	0.20	ug/L			

ds used: 1=S3662 2=S3664 3=S3665 4=S3666 5=S3667
ags used: u=use

nalyst: _____ Date: 6/9/2006

Curtis & Tompkins Laboratories **Sample Preparation Summary** **09-JUN-2006 11:02**

Batch Number : 114273
Date Extracted: 09-JUN-2006
Extracted by : Kale Clauson
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : mL
Clean-up :

Spike #1 ID : S3662
Spike #2 ID :
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
187127-001			New Logic Research	Water	50	mL	50	1.000000	1					HG		
187127-002			New Logic Research	Water	50	mL	50	1.000000	1					HG		
187127-003			New Logic Research	Water	50	mL	50	1.000000	1					HG		
187137-001			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					HG		
187166-008			U.S. Army Corps of Engineers	Filtrate	50	mL	50	1.000000	1					TAL/HG		
187166-009			U.S. Army Corps of Engineers	Filtrate	50	mL	50	1.000000	1					TAL/HG		
187166-010			U.S. Army Corps of Engineers	Filtrate	50	mL	50	1.000000	1					TAL/HG		
187203-002			URS Corporation	Water	50	mL	50	1.000000	1					HG		
187203-008			URS Corporation	Water	50	mL	50	1.000000	1					HG		
187207-002			Weston Solutions	Filtrate	50	mL	50	1.000000	1					TAL/HG		
187207-003			Weston Solutions	Filtrate	50	mL	50	1.000000	1					TAL/HG		
187207-004			Weston Solutions	Filtrate	50	mL	50	1.000000	1					TAL/HG		
187207-005			Weston Solutions	Filtrate	50	mL	50	1.000000	1					TAL/HG		
187207-006			Weston Solutions	Filtrate	50	mL	50	1.000000	1					TAL/HG		
187221-001			RMT, Inc.	Water	50	mL	50	1.000000	1					T26/HG		
187221-003			RMT, Inc.	Water	50	mL	50	1.000000	1					T26/HG		
187298-010			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					T26/HG		
187298-014			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					T26/HG		
187329-007			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					T26/HG		
187329-016			Treadwell & Rollo	Filtrate	50	mL	50	1.000000	1					T26/HG		
QC343401	BLANK			Water	50	mL	50	1.000000	1					HG		
QC343402	BS			Water	50	mL	50	1.000000	1		2.5			HG		
QC343403	BSD			Water	50	mL	50	1.000000	1		2.5			HG		
QC343404	MS	of 187166-009		Filtrate	50	mL	50	1.000000	1		2.5			HG		
QC343405	MSD	of 187166-009		Filtrate	50	mL	50	1.000000	1		2.5			HG		

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Prep Chemist: _____ Reviewed By: Carlyn Date: 6/9/06

Relinquished By: _____ Received By: _____ Date: 6/9/2006

Water Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 114273
Date Digested: 6/9/2006
Digested by: KMC

Digestion Method
☒ EPA 7470A/ EPA 245.1
☐ _____

BK 2335
Page 6

Sample # and letter		Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
187127 - 001	F	50	50	N	WATER
002	F				
003	I				
187137 - 001	H				FILTRATE (F.F.)
187166 - 008	A				
009 MSS					
010					
187203 - 002					WATER
008					
187207 - 002	G				FILTRATE (F.F.)
003					
004					
005					
006					
187221 - 001					WATER
003					
187298 - 00	B				FILTRATE
014					
187329 - 007					FILTRATE
016					
BLANK					
BS					
BSD					
MS 187166-009					
MSD 187166-009					

2.5 mL of spike solution was added to all spikes

	Reagent ID/ LIMS# / Time	Initials / Date
	53662	KMC 6/9/06
ICAL Source WS#	53662	
ICV / CCV WS#	53664 | 65 | 66 | 67	
Digestion of Samples & Standards: Time ON / Temperature ON	1030 / 95°C	
Time OFF/ Temperature OFF	1230 / 95°C	
concentrated H_2SO_4	B41041	
concentrated HNO_3	C06026	
5% $KMnO_4$	K053006	
5% $K_2S_2O_8$	K2 051606	
NaCl.hydroxylamine hydrochloride	Hy 053106	
Stannous Chloride	SnCl2 050806	
☐ filtered thru' 0.45 um syringe filter	—	

6/9/2006
Prep Chemist / Date

Continued from page _____
Continued on page _____

K Carlyn 6/9/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 6010B Water
As of 06/20/06

Analyte	Units	MET01	MET07	MET08 A	MET08 R	MET09 A	MET09 R
Aluminum	ug/L	33	19		42		28
Antimony	ug/L	21	3.9	3.6		4.3	
Arsenic	ug/L	120	2.8	1.0		0.80	
Barium	ug/L	2.7	0.13	0.41	0.61	1.6	
Beryllium	ug/L	0.45	0.48	0.21		0.68	
Cadmium	ug/L	2.2	0.29	0.55		1.7	
Calcium	ug/L	64	9.7		51		28
Chromium	ug/L	3.2	0.50	0.56		1.8	
Cobalt	ug/L	7.0	0.68	0.46		1.5	
Copper	ug/L	2.6	0.62	0.71		2.0	
Iron	ug/L	22	24		17		39
Lead	ug/L	71	1.9	0.57		0.46	
Magnesium	ug/L	47	16		15		95
Manganese	ug/L	2.6	0.57	0.60	1.2	1.8	
Molybdenum	ug/L	8.3	2.4	0.43		1.6	
Nickel	ug/L	15	0.74	0.92		2.0	
Potassium	ug/L	300			130		180
Selenium	ug/L	85	4.2	1.6		2.6	
Silver	ug/L	3.5	0.77	1.4		1.2	
Sodium	ug/L	100			39		70
Thallium	ug/L	200	3.5	0.93		1.6	
Vanadium	ug/L	2.4	0.57	0.42		1.5	
Zinc	ug/L	5.8	1.1	1.5	1.6	7.7	
Boron	ug/L	52		14		12	
Tin	ug/L	22		4.4		14	
Titanium	ug/L	2.1		1.0	1.3	3.5	

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 6020 Water 200.8
As of 06/20/06

Analyte	Units	MET05	MET06 A	MET06 E	MET06 H
Aluminum	ug/L	1.0	0.40		
Antimony	ug/L	0.078	0.0093		
Arsenic	ug/L	0.65		0.034	
Barium	ug/L	0.23	0.023		
Beryllium	ug/L	0.055	0.017		
Cadmium	ug/L	0.14	0.0058		
Calcium	ug/L	15	5.6		
Chromium	ug/L	0.085		0.038	
Cobalt	ug/L	0.034		0.0072	
Copper	ug/L	0.31		0.028	
Iron	ug/L	4.2			1.9
Lead	ug/L	0.24	0.013		
Magnesium	ug/L	2.1	0.73		
Manganese	ug/L	0.082		0.011	
Molybdenum	ug/L	0.062	0.0063		
Nickel	ug/L	0.16		0.029	
Potassium	ug/L	8.9	5.3		
Selenium	ug/L	0.35			0.027
Silver	ug/L	0.041	0.0079		
Sodium	ug/L	15		2.7	
Thallium	ug/L	0.073	0.030		
Vanadium	ug/L	0.15		0.026	
Zinc	ug/L	0.52		0.062	

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 7470A Water
As of 06/20/06

Analyte	Units	MET04	MET14
Mercury	ug/L	0.058	0.021

GENERAL CHEMISTRY

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Field ID:	DW053006B	Batch#:	114274
Matrix:	Water	Sampled:	05/30/06
Units:	mg/L	Received:	05/30/06
Diln Fac:	1.000	Analyzed:	06/09/06

Type: SAMPLE Lab ID: 187137-001

Analyte	Result	RL
Alkalinity, Bicarbonate	ND	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	4.0	1.0

Type: BLANK Lab ID: QC343406

Analyte	Result	RL
Alkalinity, Bicarbonate	ND	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Units:	mg/L
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC343407	Batch#:	114274
Matrix:	Water	Analyzed:	06/09/06

Spiked	Result	%REC	Limits
200.0	183.3	92	90-110

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	114274
MSS Lab ID:	187187-001	Sampled:	06/01/06
Matrix:	Water	Received:	06/01/06
Units:	mg/L	Analyzed:	06/09/06

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC343408	484.2	200.0	676.4	96	69-112		
MSD	QC343409		200.0	676.4	96	69-112	0	25

RPD= Relative Percent Difference

Analysis: **Alkalinity** Analysis Date: **06/09/06** H_2SO_4 Normality = **0.0178**

Method: **EPA 310.1** / SMWW 2320B Batch No: **114274** conc.(mg/L) Na_2CO_3 for QC = **200**

SOP#: Alkalinity_rv 6.doc Analyst: SJ

SAMPLE	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinity** as $CaCO_3$ (mg/L)	Low Alkalinity Volume (4.5-4.2) (mL)	**Low Alkalinity** as $CaCO_3$ (mg/L)	Reporting Limit (mg/L)
187137-001	6.40	100	0.0	0.7	rpt low alk	0.95	4.005	1.0
187138-001	7.30	25	0.0	19.2	683.52		n/a	1.0
187138-002	7.10	25	0.0	21.9	779.64		n/a	1.0
187138-004	7.60	25	0.0	16.6	590.96		n/a	1.0
187138-006	8.50	25	0.0	16.9	601.64		n/a	1.0
187187-001	7.60	25	0.0	13.6	484.16		n/a	1.0
187187-002	7.30	25	0.0	15.0	534.00		n/a	1.0
187187-003	7.40	25	0.0	17.2	612.32		n/a	1.0
187187-004	7.20	25	0.0	30.3	1078.68		n/a	1.0
187187-005	7.40	25	0.0	21.1	751.16		n/a	1.0
187187-006	7.60	25	0.0	30.4	1082.24		n/a	1.0
187187-007	7.60	25	0.0	13.6	484.16		n/a	1.0

QC DATA	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alk Vol (mL)	**Low Alk** as $CaCO_3$ (mg/L)	RL (mg/L)	% Rec.	% RPD
MB	5.6	25	0.0	0.0	ND			1.0		
LCS	10.1	25	1.9	5.2	183.34			1.0	92	
187187-001	7.60	25	0.0	13.6	484.16		n/a	1.0		
MS	8.9	25	1.2	19.0	676.40			1.0	96	
MSD	8.9	25	1.2	19.0	676.40			1.0	96	0

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	25	80 - 120

Reviewed by/ Date: 6/9/06

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Curtis Tompkins, Ltd.

Template: F:\inorgan\wetstuff\alkalinity.xls
Ver.8.3, Effective 6/03/04

Analysis: **Alkalinity** Analysis Date: 06/09/06 H_2SO_4 Normality = 0.0178

Method: **EPA 310.1** Batch No: 114274 Analyst: SJ

SAMPLE	(P)	(T-P)	Total Alkalinity as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity	Carbonate Alkalinity	Hydroxide Alkalinity
				as $CaCO_3$ (mg/L)		
187137-001	0.0	#VALUE!	4.005	not applicable	not applicable	not applicable
187138-001	0.0	683.5	683.52	683.520	0.000	0.000
187138-002	0.0	779.6	779.64	779.640	0.000	0.000
187138-004	0.0	591.0	590.96	590.960	0.000	0.000
187138-006	0.0	601.6	601.64	601.640	0.000	0.000
187187-001	0.0	484.2	484.16	484.160	0.000	0.000
187187-002	0.0	534.0	534	534.000	0.000	0.000
187187-003	0.0	612.3	612.32	612.320	0.000	0.000
187187-004	0.0	1078.7	1078.68	1078.680	0.000	0.000
187187-005	0.0	751.2	751.16	751.160	0.000	0.000
187187-006	0.0	1082.2	1082.24	1082.240	0.000	0.000
187187-007	0.0	484.2	484.16	484.160	0.000	0.000

P: Phenolphthalein Alkalinity (using volume to pH 8.3)
T-P: Total Alkalinity minus Phenolphthalein Alkalinity

Carbonate Alkalinity = 2x the smaller of P or (T-P)
Bicarbonate Alkalinity = (T-2P) when P < (T-P)
Hydroxide Alkalinity = (2P-T) when (T-P) < P

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Analysis: **Alkalinity** Analysis Date: 06/09/06 H_2SO_4 Normality = 0.0178

Method: **EPA 310.1** Batch No: 114274 Analyst: SJ

SAMPLE	**Total Alkalinity** as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity **as HCO_3^- (mg/L)**	Carbonate Alkalinity **as CO_3^{2-} (mg/L)**	Hydroxide Alkalinity **as OH^- (mg/L)**
187137-001	4.005	not applicable	not applicable	not applicable
187138-001	683.52	833.38	0.000	0.00
187138-002	779.64	950.57	0.000	0.00
187138-004	590.96	720.53	0.000	0.00
187138-006	601.64	733.55	0.000	0.00
187187-001	484.16	590.31	0.000	0.00
187187-002	534	651.08	0.000	0.00
187187-003	612.32	746.57	0.000	0.00
187187-004	1078.68	1315.18	0.000	0.00
187187-005	751.16	915.85	0.000	0.00
187187-006	1082.24	1319.52	0.000	0.00
187187-007	484.16	590.31	0.000	0.00

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Alkalinity Benchbook EPA 310.1 / SMWW 2320B Curtis & Tompkins, Ltd

LIMS Batch #: 114274 Date: 6/9/06 Benchbook#: BK 2255
Matrix: water Time: 8:20 Page: 65

CAL-ph 4.0: SS#: S 749
CAL-ph 7.0: SS#: S177
CAL-ph 10.0: SS#: S1169
Slope: 96.0
(slope limits: 92 - 102)

$CaCO_3$ Vol (mgL) Spiked: 5
$CaCO_3$ Conc (mg/L): 1000
$CaCO_3$ WS#: S3134
H_2SO_4 Normality: 0.0178
H_2SO_4 Reagent ID: 4/28/06

	Sample # / Letter	Sample Vol. Titrated (mL)	Initial pH (S.U.)	H_2SO_4 Vol (mL) to pH 8.3	H_2SO_4 Vol (mL) to pH 4.5 *	Low Alk TotalVol (mL)	Comments
1	MB	25	5.6	—	<0.05		
	LCS		10.1	~~1.9~~	5.15		
	187187-1H		7.6	—	13.6		
	-2		7.3	—	15		
5	-3		7.4	—	17.2		
	-4		7.2	—	30.3		
	-5		7.4	—	21.1		
	-6		7.6	—	30.4		
	-7		7.6	—	13.6		
10	187137-1I		6.5	—	<2mL		
	-1I	100	6.4	—	0.7	0.95	
	187138-1G	25	7.3	—	19.2		
	-2F		7.1	—	21.9		
	-4G		7.6	—	16.6		
15	-6		8.5	0.3	16.9		
	MS 187187-1H		8.9	1.2	19		
	MSD -1		8.9	1.2	19		
20							

* If Acid Vol to 4.5 is < 2.0mL, redo using 100mL sample volume. If still < 2.0mL, go on to Low Alkalinity

6/9/06
Analyst / Date

Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 114274
Date Started: 09-JUN-2006
Batched by : Stephanie Jim

Analysis : ALKALINITY
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
187137-001			Treadwell & Rollo	Water	ALKALINITY	09-JUN-2006
187138-001			Tetra Tech EC, INC	Water	ALKALINITY	09-JUN-2006
187138-002			Tetra Tech EC, INC	Water	ALKALINITY	09-JUN-2006
187138-004			Tetra Tech EC, INC	Water	ALKALINITY	09-JUN-2006
187138-006			Tetra Tech EC, INC	Water	ALKALINITY	09-JUN-2006
187187-001			RMT, Inc.	Water	ALKALINITY	07-JUN-2006
187187-002			RMT, Inc.	Water	ALKALINITY	07-JUN-2006
187187-003			RMT, Inc.	Water	ALKALINITY	07-JUN-2006
187187-004			RMT, Inc.	Water	ALKALINITY	07-JUN-2006
187187-005			RMT, Inc.	Water	ALKALINITY	07-JUN-2006
187187-006			RMT, Inc.	Water	ALKALINITY	07-JUN-2006
187187-007			RMT, Inc.	Water	ALKALINITY	07-JUN-2006
QC343406	BLANK			Water	ALKALINITY	
QC343407	LCS			Water	ALKALINITY	
QC343408	MS	of 187187-001		Water	ALKALINITY	
QC343409	MSD	of 187187-001		Water	ALKALINITY	

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Field ID:	DW053006B	Batch#:	113967
Matrix:	Water	Sampled:	05/30/06 13:50
Units:	mg/L	Received:	05/30/06
Diln Fac:	1.000		

Type: SAMPLE Analyzed: 05/30/06 18:55
Lab ID: 187137-001

Analyte	Result	RL
Fluoride	ND	0.10
Chloride	ND	0.20
Nitrogen, Nitrite	ND	0.05
Nitrogen, Nitrate	ND	0.05
Sulfate	1.4	0.50

Type: BLANK Analyzed: 05/30/06 12:39
Lab ID: QC342142

Analyte	Result	RL
Fluoride	ND	0.10
Chloride	ND	0.20
Nitrogen, Nitrite	ND	0.05
Nitrogen, Nitrate	ND	0.05
Sulfate	ND	0.50

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Matrix:	Water	Diln Fac:	1.000
Units:	mg/L	Batch#:	113967

Type: BS Analyzed: 05/30/06 12:58
Lab ID: QC342143

Analyte	Spiked	Result	%REC	Limits
Fluoride	2.000	1.929	96	80-120
Chloride	4.000	3.884	97	80-120
Nitrogen, Nitrite	1.000	0.9976	100	80-120
Nitrogen, Nitrate	1.000	0.9347	93	80-120
Sulfate	10.00	10.16	102	80-120

Type: BSD Analyzed: 05/30/06 13:34
Lab ID: QC342144

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Fluoride	2.000	1.963	98	80-120	2	20
Chloride	4.000	3.909	98	80-120	1	20
Nitrogen, Nitrite	1.000	1.022	102	80-120	2	20
Nitrogen, Nitrate	1.000	0.9420	94	80-120	1	20
Sulfate	10.00	10.25	103	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Field ID:	DW053006B	Diln Fac:	1.020
MSS Lab ID:	187137-001	Batch#:	113967
Matrix:	Water	Sampled:	05/30/06 13:50
Units:	mg/L	Received:	05/30/06

Type: MS Analyzed: 05/30/06 19:13
Lab ID: QC342145

Analyte	MSS Result	Spiked	Result	%REC	Limits
Fluoride	0.05141	1.000	0.9328	88	77-120
Chloride	0.06266	2.000	2.008	97	80-120
Nitrogen, Nitrite	<0.01206	0.5000	0.5077	102	80-120
Nitrogen, Nitrate	<0.008826	0.5000	0.4516	90	80-120
Sulfate	1.402	5.000	6.521	102	80-120

Type: MSD Analyzed: 05/30/06 19:32
Lab ID: QC342146

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Fluoride	1.000	0.9443	89	77-120	1	20
Chloride	2.000	1.985	96	80-120	1	25
Nitrogen, Nitrite	0.5000	0.5015	100	80-120	1	25
Nitrogen, Nitrate	0.5000	0.4647	93	80-120	3	25
Sulfate	5.000	6.513	102	80-120	0	25

RPD= Relative Percent Difference

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 187137 IC Water: EPA 300.0

Inst : IC03
Calnum : 626087283001
Units : mg/L

Date : 01-MAR-2006 15:02
X Axis : A

Reviewer: MCH

Inj Vol : 25 uL

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	060_2.000	626087283002	L1	01-MAR-2006 15:02	S1888 (500X)
L2	060_3.000	626087283003	L2	01-MAR-2006 15:20	S1888 (100X)
L3	060_4.000	626087283004	L3	01-MAR-2006 15:39	S1888 (25X)
L4	060_5.000	626087283005	L4	01-MAR-2006 15:57	S1888 (10X)
L5	060_6.000	626087283006	L5	01-MAR-2006 16:15	S1888 (5X)

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Fluoride	0.1716	0.1970	0.2011	0.2058	0.2193	QORG		0.19367	0.002557	0.1990	1.000	0.990	
Chloride	0.2004	0.1474	0.1573	0.1617	0.1760	QORG		0.14901	0.001346	0.1686	1.000	0.990	
Nitrogen, Nitrite	0.2691	0.2776	0.3037	0.3039	0.3170	QORG		0.29330	0.004711	0.2943	1.000	0.990	
Nitrogen, Nitrate	0.3560	0.3834	0.3978	0.3870	0.4128	QORG		0.37136	0.008191	0.3874	1.000	0.990	
Sulfate	0.1066	0.1006	0.1099	0.1118	0.1203	QORG		0.10436	3.187E-4	0.1099	1.000	0.990	

401

Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating); QORG=Quadratic regression forced through origin

626087283001

Sequence: 060
Operator: ic_analyst
Printed: 3/2/2006 11:25:27 AM

Title: Anions
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006
Timebase: IC3_DX120
#Samples: 8

Created: 8/1/2003 11:03:14 AM by ic_analyst
Last Update: 3/1/2006 4:23:55 PM by ic_analyst

No.	*Batch	Name	Comment	Dil. Factor	Program	Status	Inj. Date/Time
1	CAL-060	IB		1.0000	IC03-7AN	Finished	3/1/2006 2:43:54 PM
2	CAL-060	ICAL, L1,S1888,500		1.0000	IC03-7AN	Finished	3/1/2006 3:02:19 PM
3	CAL-060	ICAL, L2,S1888,100		1.0000	IC03-7AN	Finished	3/1/2006 3:20:44 PM
4	CAL-060	ICAL, L3,S1888,25		1.0000	IC03-7AN	Finished	3/1/2006 3:39:08 PM
5	CAL-060	ICAL, L4,S1888,10		1.0000	IC03-7AN	Finished	3/1/2006 3:57:33 PM
6	CAL-060	ICAL, L5,S1888,5		1.0000	IC03-7AN	Finished	3/1/2006 4:15:58 PM
7	CAL-060	ICV,S1085,5		1.0000	IC03-7AN	Finished	3/1/2006 4:34:23 PM
8	CAL-060	ICB		1.0000	IC03-7AN	Finished	3/1/2006 4:52:47 PM

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Sequence: 060
Operator: ic_analyst
Printed: 3/2/2006 11:25:27 AM

Title: Anions
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006
Timebase: IC3_DX120
#Samples: 8

Created: 8/1/2003 11:03:14 AM by ic_analyst
Last Update: 3/1/2006 4:23:55 PM by ic_analyst

No.	*Batch	Name	Comment	Method	Type	Inj. Vol.	*operator	*PDF
1	CAL-060	IB		IC03-7AN_CAL	Unknown	25.0	MRS	1
2	CAL-060	ICAL, L1,S1888,500		IC03-7AN_CAL	Standard	25.0	MRS	1
3	CAL-060	ICAL, L2,S1888,100		IC03-7AN_CAL	Standard	25.0	MRS	1
4	CAL-060	ICAL, L3,S1888,25		IC03-7AN_CAL	Standard	25.0	MRS	1
5	CAL-060	ICAL, L4,S1888,10		IC03-7AN_CAL	Standard	25.0	MRS	1
6	CAL-060	ICAL, L5,S1888,5		IC03-7AN_CAL	Standard	25.0	MRS	1
7	CAL-060	ICV,S1085,5		IC03-7AN_CAL	Unknown	25.0	MRS	1
8	CAL-060	ICB		IC03-7AN_CAL	Unknown	25.0	MRS	1

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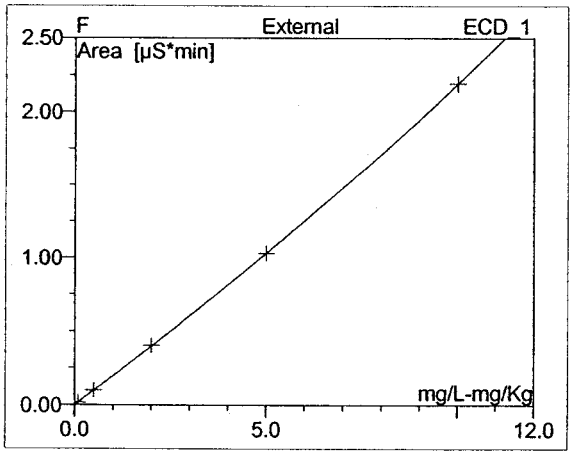
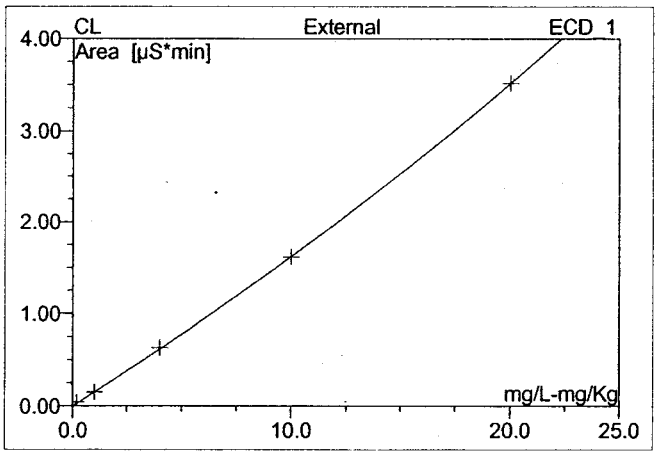
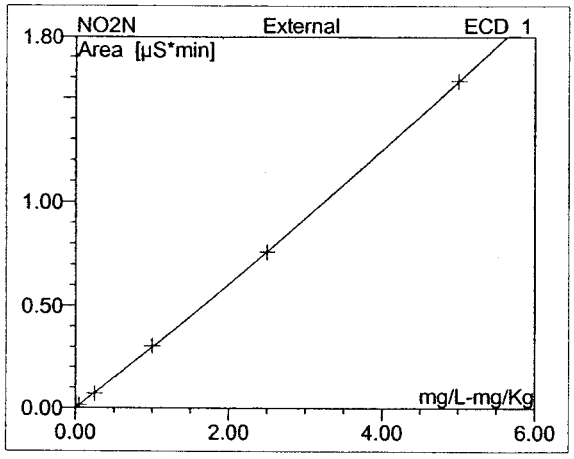
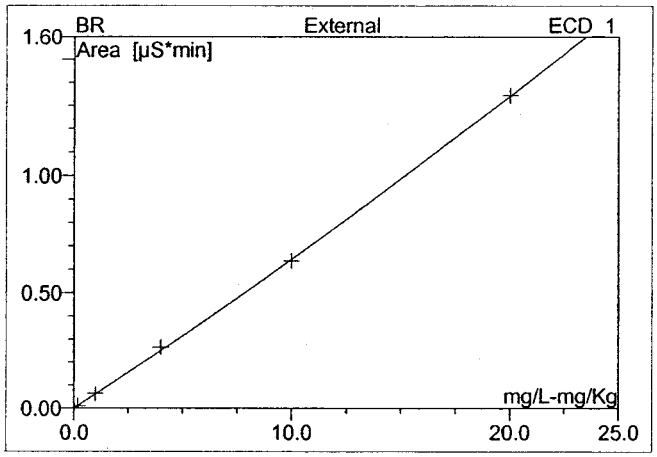
IC03 Calibration Batch Report

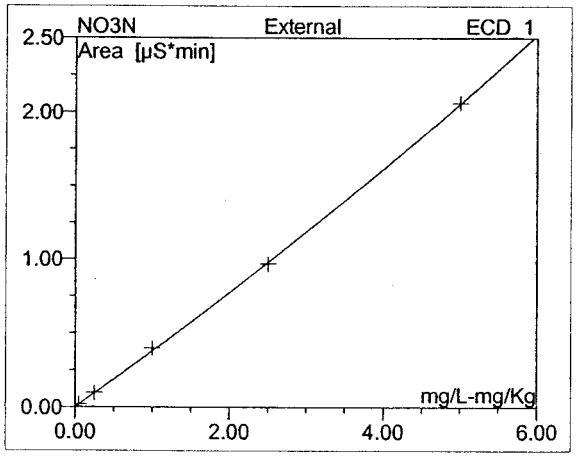
Sequence:	060	Inj. Vol.:	25.0
Program:	IC03-7AN	Operator:	PC_NEWIC
Inj. Date/Time:	03/01/06 15:39	Run Time:	16.00

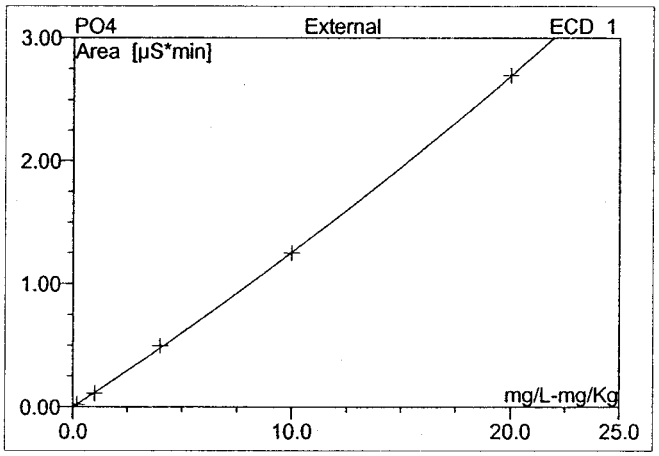




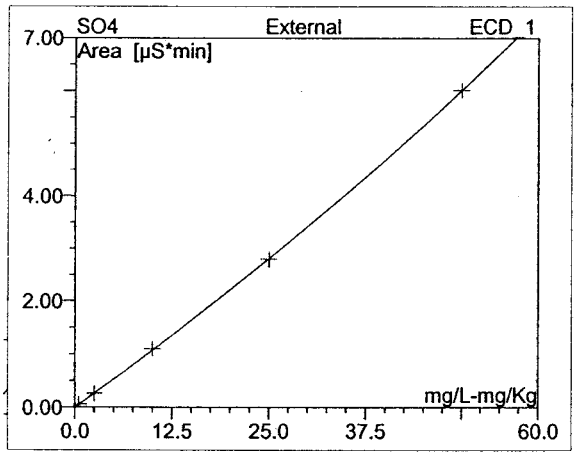








Sequence:	060	*Inj. Vol.:*	25.0
Program:	IC03-7AN	*Operator:*	n.a.
Inj. Date/Time:	03/01/06 15:39	*Run Time:*	16.00



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	2.870	F	Quad	5	0.000000	0.193669	0.002557	99.951556
2	4.217	CL	Quad	5	0.000000	0.149009	0.001346	99.909274
3	5.010	NO2N	Quad	5	0.000000	0.293301	0.004711	99.980499
4	6.363	BR	Quad	5	0.000000	0.061677	0.000275	99.961186
5	7.183	NO3N	Quad	5	0.000000	0.371363	0.008191	99.950755
6	9.350	PO4	Quad	5	0.000000	0.116513	0.000916	99.934448
7	11.167	SO4	Quad	5	0.000000	0.104363	0.000319	99.936780
AVERAGE:					0.000000	0.184271	0.002616	99.946357

No.	Name	Area µS*min F ECD_1	Area µS*min CL ECD_1	Area µS*min NO2N ECD_1	Area µS*min BR ECD_1	Area µS*min NO3N ECD_1	Area µS*min PO4 ECD_1	Area µS*min SO4 ECD_1
2	ICAL, L1,S18	0.017161	0.040074	0.013455	0.009416	0.017801	0.019729	0.053320
3	ICAL, L2,S18	0.098503	0.147367	0.069403	0.062700	0.095842	0.108648	0.251558
4	ICAL, L3,S18	0.402286	0.629116	0.303748	0.265105	0.397785	0.496547	1.098657
5	ICAL, L4,S18	1.029135	1.617474	0.759872	0.635291	0.967493	1.248459	2.795566
6	ICAL, L5,S18	2.192959	3.519967	1.584757	1.345233	2.063887	2.698316	6.017213

No.	Name	Height µS F ECD_1	Height µS CL ECD_1	Height µS NO2N ECD_1	Height µS BR ECD_1	Height µS NO3N ECD_1	Height µS PO4 ECD_1	Height µS SO4 ECD_1
2	ICAL, L1,S18	0.119928	0.332400	0.084748	0.057026	0.074652	0.061912	0.150120
3	ICAL, L2,S18	0.624736	1.151678	0.427428	0.312212	0.389908	0.332100	0.786078
4	ICAL, L3,S18	2.934282	5.019222	1.815278	1.334402	1.670152	1.537158	3.389914
5	ICAL, L4,S18	7.925782	12.944296	4.498282	3.261344	4.151488	4.029644	8.663126
6	ICAL, L5,S18	18.187422	28.959684	9.537670	7.026382	9.031478	9.108810	19.245860

No.	Name	Amount mg/L-mg/Kg F ECD_1	Amount mg/L-mg/Kg CL ECD_1	Amount mg/L-mg/Kg NO2N ECD_1	Amount mg/L-mg/Kg BR ECD_1	Amount mg/L-mg/Kg NO3N ECD_1	Amount mg/L-mg/Kg PO4 ECD_1	Amount mg/L-mg/Kg SO4 ECD_1
2	ICAL, L1,S18	0.088509	0.268287	0.045841	0.152565	0.047883	0.169101	0.510110
3	ICAL, L2,S18	0.505245	0.980298	0.235735	1.012006	0.256628	0.925752	2.392929
4	ICAL, L3,S18	2.023146	4.072203	1.018944	4.218898	1.046971	4.127700	10.208976
5	ICAL, L4,S18	4.985728	9.958921	2.491093	9.866203	2.470614	9.938275	24.894346
6	ICAL, L5,S18	10.002414	20.006659	5.001430	20.023174	5.005056	20.009590	50.016725

Title: IC03-7AN_CAL

Datasource:	DGLD4X01_local	Created:	10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Location:	IC3_DX120\IC03-ANIONS-2006\125.SEQ	Last Update:	5/5/2006 6:10:33 PM by ic_analyst

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Inhibit Integration	On	ECD_1
2	2.250	Sensitivity	0.001 "[Signal]"	ECD_1
3	2.250	Minimum Area	0.001 "[Signal]*min"	ECD_1
4	2.250	Peak Slice	0.50 s	ECD_1
5	2.500	Inhibit Integration	Off	ECD_1

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Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\125.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 5/5/2006 6:10:33 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Amount ICAL, L1,S1888,500	Amount ICAL, L2,S1888,100
1	F	2.844 min	5.000 RG	External	Area	Quad	Auto		0.100000	0.500000
2	CL	4.144 min	5.000 RG	External	Area	Quad	Auto		0.200000	1.000000
3	NO2N	4.924 min	5.000 RG	External	Area	Quad	Auto		0.050000	0.250000
4	BR	6.271 min	5.000 RG	External	Area	Quad	Auto		0.200000	1.000000
5	NO3N	7.088 min	10.000 RG	External	Area	Quad	Auto		0.050000	0.250000
6	*PO4*	*8.891 min*	*10.000 RG*	*External*	*Area*	*Quad*	*Auto*		*0.200000*	*1.000000*
7	SO4	10.551 min	10.000 RG	External	Area	Quad	Auto		0.500000	2.500000

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Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\125.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 5/5/2006 6:10:33 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Amount ICAL, L3,S1888,25	Amount ICAL, L4,S1888,10	Amount ICAL, L5,S1888,5	Comment
1	F	2.844 min	2.000000	5.000000	10.000000	
2	CL	4.144 min	4.000000	10.000000	20.000000	
3	NO2N	4.924 min	1.000000	2.500000	5.000000	
4	BR	6.271 min	4.000000	10.000000	20.000000	
5	NO3N	7.088 min	1.000000	2.500000	5.000000	
6	*PO4*	*8.891 min*	*4.000000*	*10.000000*	*20.000000*	
7	SO4	10.551 min	10.000000	25.000000	50.000000	

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Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\125.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 5/5/2006 6:10:33 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Resp.Fact.	Amount ICAL, L1,S1888,500	Amount ICAL, L2,S1888,100	Amount ICAL, L3,S1888,25	Amount ICAL, L4,S1888,10
1	F	2.844 min	1.000000	0.100000	0.500000	2.000000	5.000000
2	CL	4.144 min	1.000000	0.200000	1.000000	4.000000	10.000000
3	NO2N	4.924 min	1.000000	0.050000	0.250000	1.000000	2.500000
4	BR	6.271 min	1.000000	0.200000	1.000000	4.000000	10.000000
5	NO3N	7.088 min	1.000000	0.050000	0.250000	1.000000	2.500000
6	*PO4*	*8.891 min*	*1.000000*	*0.200000*	*1.000000*	*4.000000*	*10.000000*
7	SO4	10.551 min	1.000000	0.500000	2.500000	10.000000	25.000000

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Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\125.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 5/5/2006 6:10:33 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Amount ICAL, L5,S1888,5	Comment
1	F	2.844 min	10.000000	
2	CL	4.144 min	20.000000	
3	NO2N	4.924 min	5.000000	
4	BR	6.271 min	20.000000	
5	NO3N	7.088 min	5.000000	
6	*PO4*	*8.891 min*	*20.000000*	
7	SO4	10.551 min	50.000000	

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Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2006\125.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 5/5/2006 6:10:33 PM by ic_analyst

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time	Calib. Comment
1	☒	ICAL, L1,S1888,500	2	179	25.0	1.0000	1.0000	1.0000	3/1/2006 3:02:19 PM	Ok
2	☒	ICAL, L2,S1888,100	3	179	25.0	1.0000	1.0000	1.0000	3/1/2006 3:20:44 PM	Ok
3	☒	ICAL, L3,S1888,25	4	180	25.0	1.0000	1.0000	1.0000	3/1/2006 3:39:08 PM	Ok
4	☒	ICAL, L4,S1888,10	5	181	25.0	1.0000	1.0000	1.0000	3/1/2006 3:57:33 PM	Ok
5	☒	ICAL, L5,S1888,5	6	182	25.0	1.0000	1.0000	1.0000	3/1/2006 4:15:58 PM	Ok

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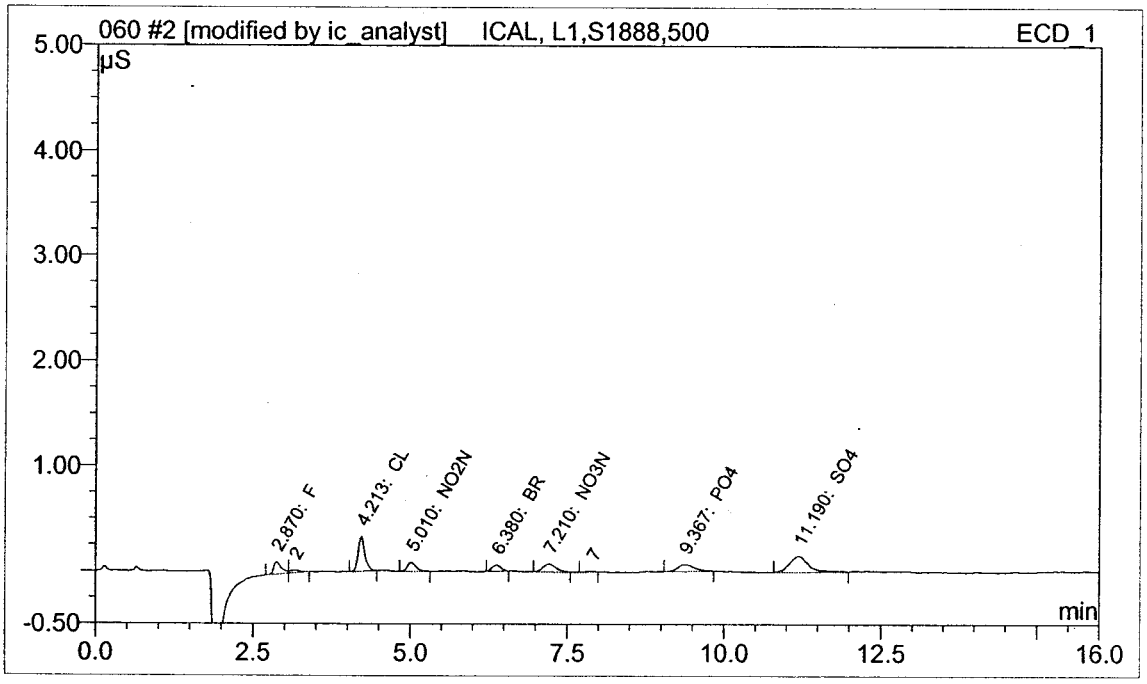
ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L1,S1888,500	**Sample No.:**	2
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:02 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.017161	0.0885	0.0885	
3	CL	4.213	0.040074	0.2683	0.2683	
4	NO2N	5.010	0.013455	0.0458	0.0458	
5	BR	6.380	0.009416	0.1526	0.1526	
6	NO3N	7.210	0.017801	0.0479	0.0479	
8	PO4	9.367	0.019729	0.1691	0.1691	
9	SO4	11.190	0.053320	0.5101	0.5101	



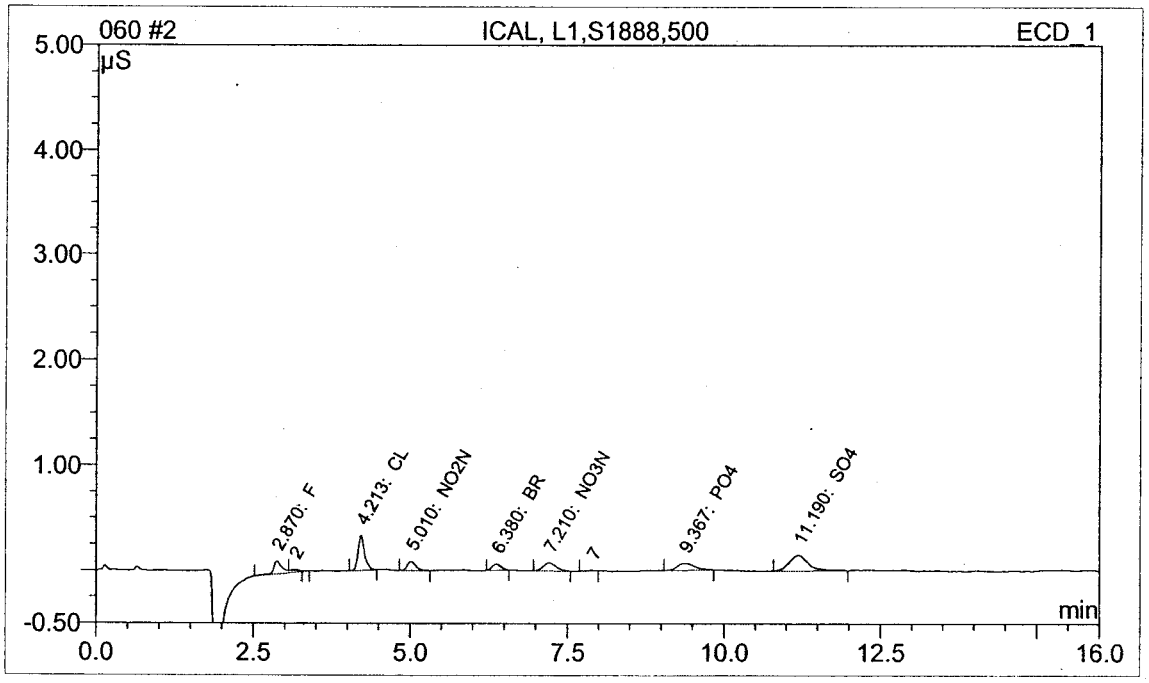
ANALYZED BY: REVIEWED BY:

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L1,S1888,500	**Sample No.:**	2
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:02 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.023606	0.1216	0.1216	
3	CL	4.213	0.040074	0.2683	0.2683	
4	NO2N	5.010	0.013455	0.0458	0.0458	
5	BR	6.380	0.009416	0.1526	0.1526	
6	NO3N	7.210	0.017801	0.0479	0.0479	
8	PO4	9.367	0.019729	0.1691	0.1691	
9	SO4	11.190	0.053320	0.5101	0.5101	



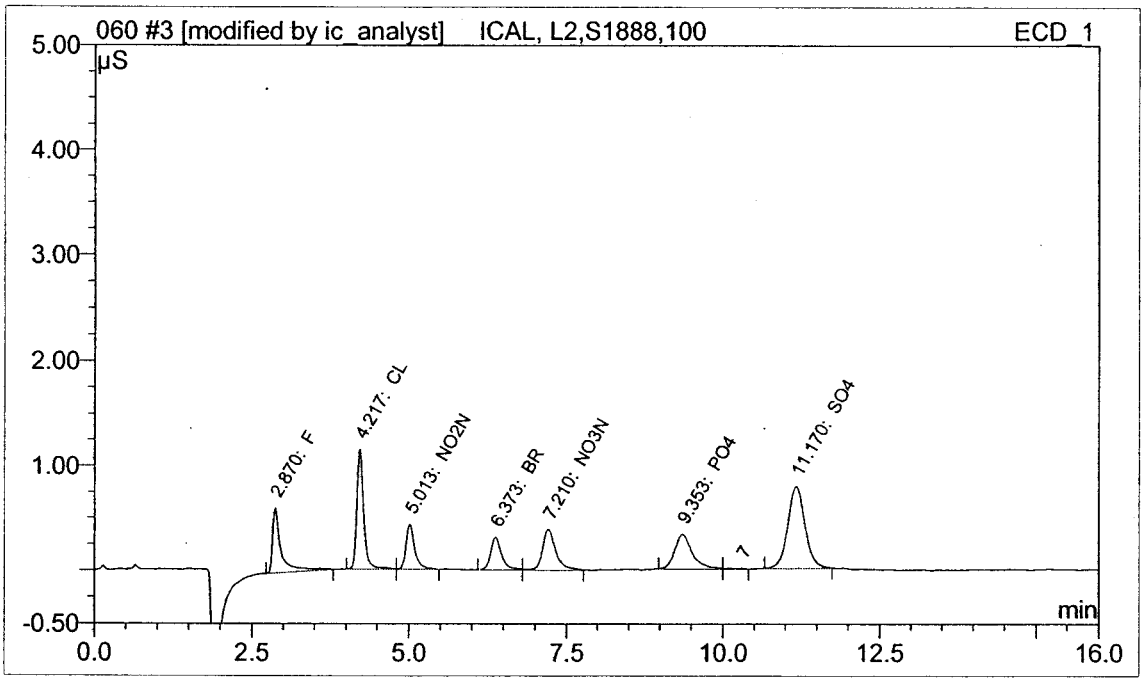
ANALYZED BY: REVIEWED BY:

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L2,S1888,100	**Sample No.:**	3
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:20 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.098503	0.5052	0.5052	
2	CL	4.217	0.147367	0.9803	0.9803	
3	NO2N	5.013	0.069403	0.2357	0.2357	
4	BR	6.373	0.062700	1.0120	1.0120	
5	NO3N	7.210	0.095842	0.2566	0.2566	
6	PO4	9.353	0.108648	0.9258	0.9258	
8	SO4	11.170	0.251558	2.3929	2.3929	



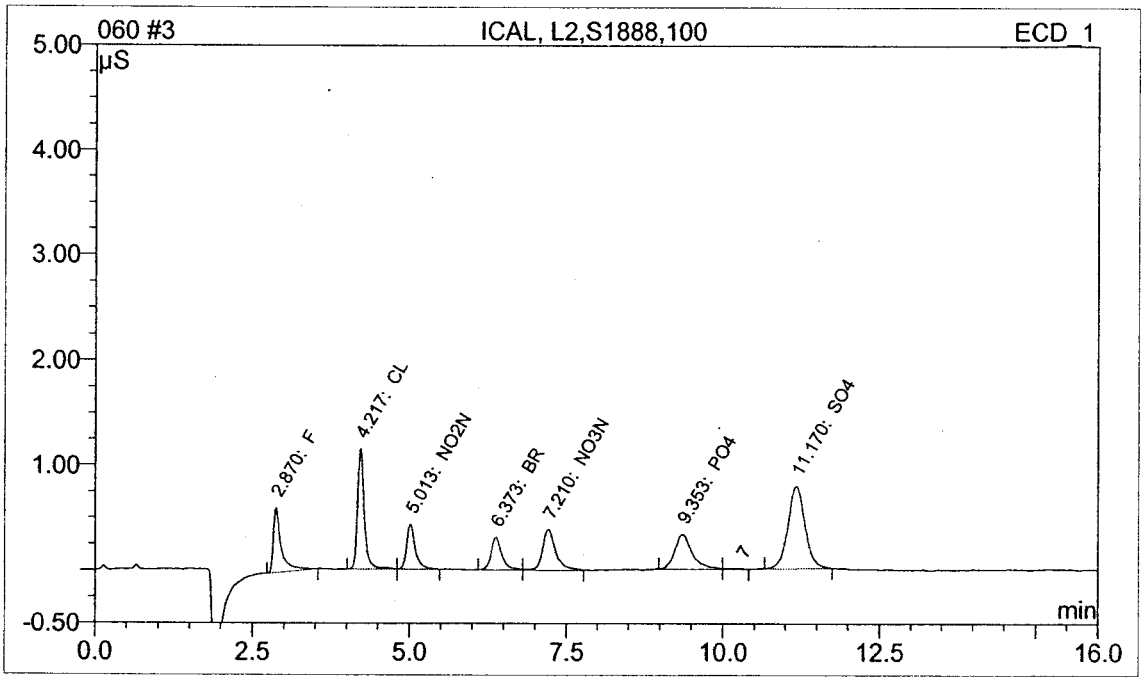
ANALYZED BY: REVIEWED BY:

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L2,S1888,100	**Sample No.:**	3
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:20 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.089672	0.4613	0.4613	
2	CL	4.217	0.147367	0.9803	0.9803	
3	NO2N	5.013	0.069403	0.2357	0.2357	
4	BR	6.373	0.062700	1.0120	1.0120	
5	NO3N	7.210	0.095842	0.2566	0.2566	
6	PO4	9.353	0.108648	0.9258	0.9258	
8	SO4	11.170	0.251558	2.3929	2.3929	



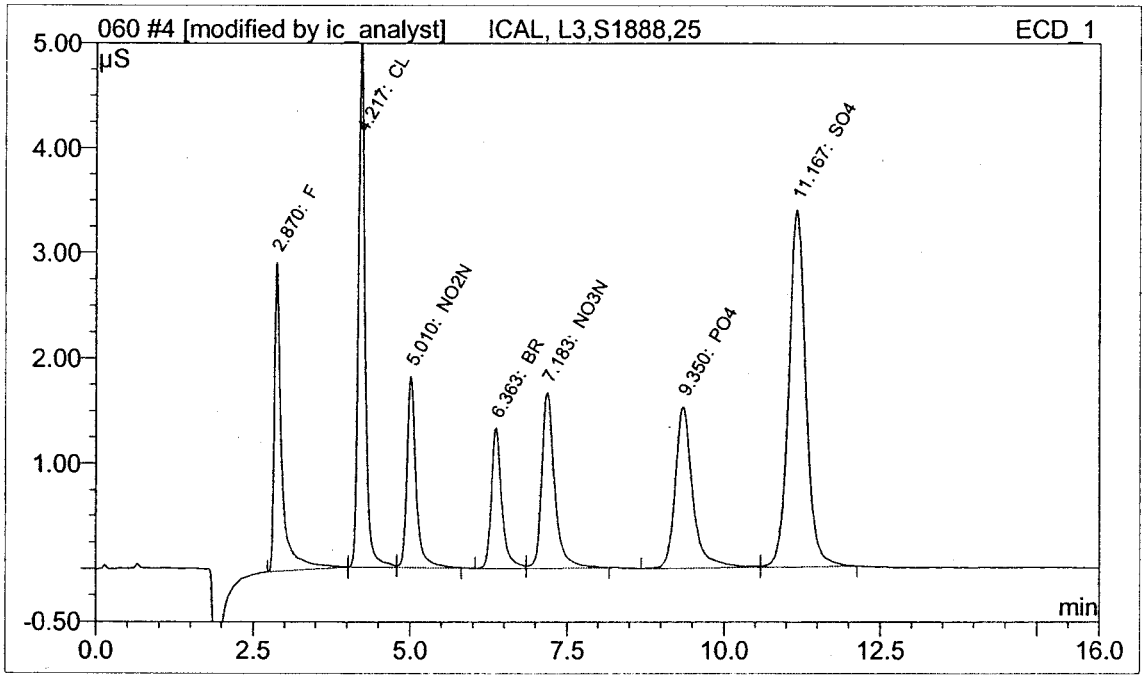
ANALYZED BY: REVIEWED BY:

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L3,S1888,25	**Sample No.:**	4
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:39 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.402286	2.0231	2.0231	
2	CL	4.217	0.629116	4.0722	4.0722	
3	NO2N	5.010	0.303748	1.0189	1.0189	
4	BR	6.363	0.265105	4.2189	4.2189	
5	NO3N	7.183	0.397785	1.0470	1.0470	
6	PO4	9.350	0.496547	4.1277	4.1277	
7	SO4	11.167	1.098657	10.2090	10.2090	



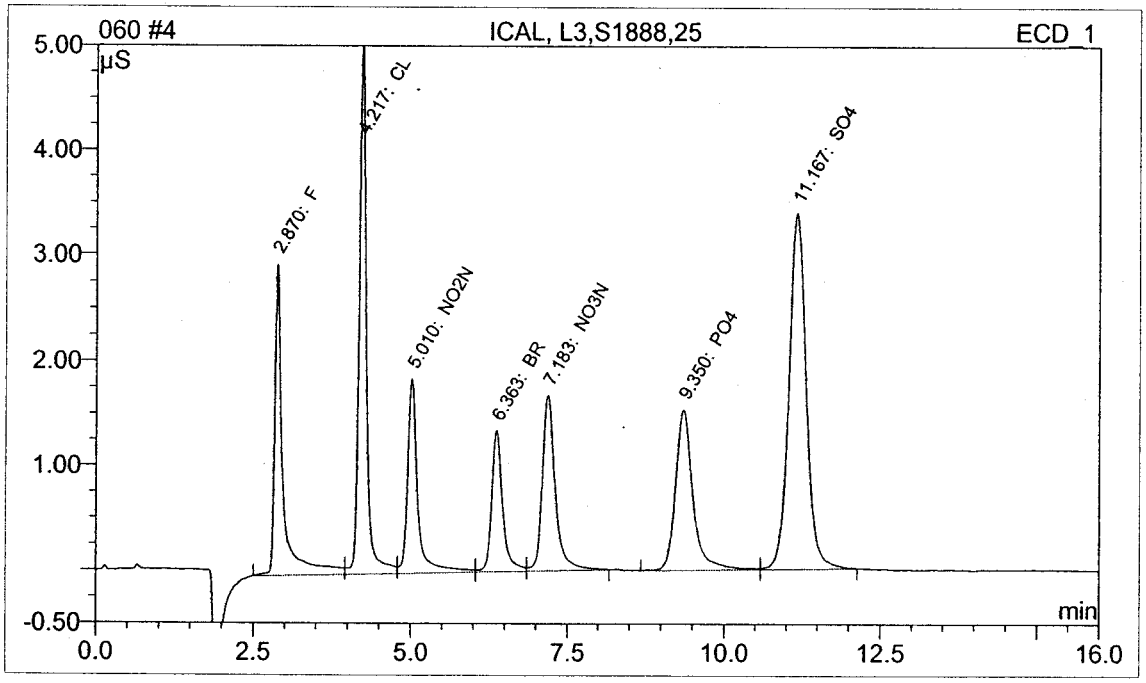
ANALYZED BY: REVIEWED BY:

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L3,S1888,25	**Sample No.:**	4
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:39 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.870	0.455269	2.2018	2.2018	
2	CL	4.217	0.670131	4.2507	4.2507	
3	NO2N	5.010	0.344377	1.1110	1.1110	
4	BR	6.363	0.276408	4.3412	4.3412	
5	NO3N	7.183	0.404782	1.0595	1.0595	
6	PO4	9.350	0.496547	4.1277	4.1277	
7	SO4	11.167	1.098657	10.2090	10.2090	



ANALYZED BY: _____

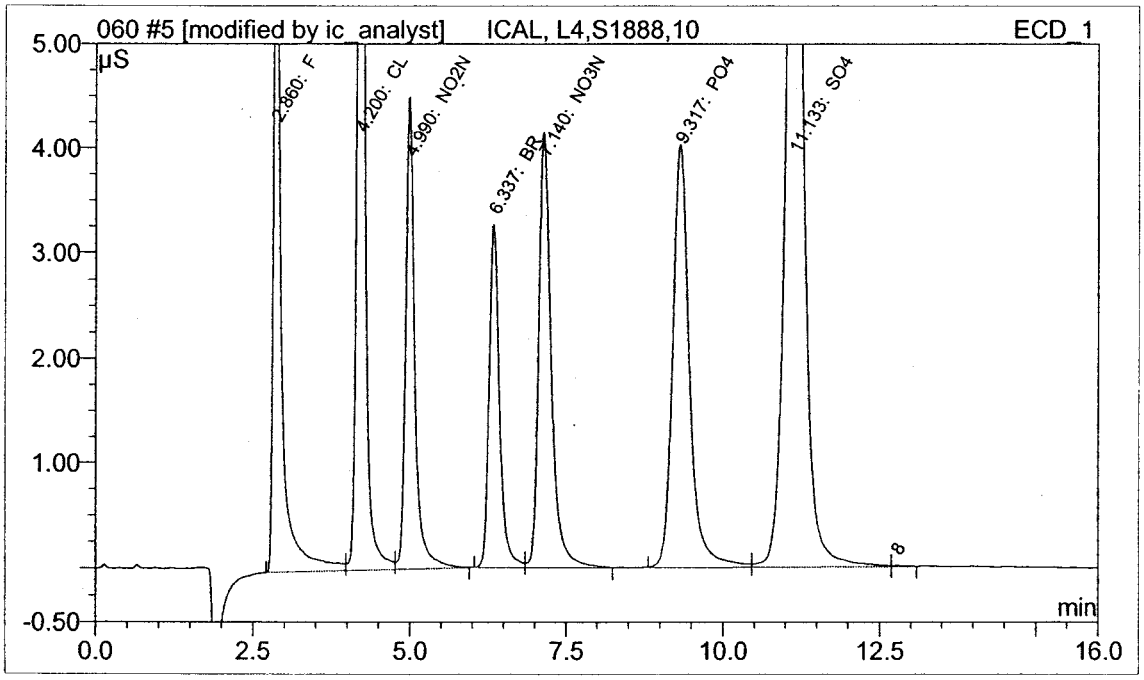
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L4,S1888,10	**Sample No.:**	5
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:57 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.860	1.029135	4.9857	4.9857	
2	CL	4.200	1.617474	9.9589	9.9589	
3	NO2N	4.990	0.759872	2.4911	2.4911	
4	BR	6.337	0.635291	9.8662	9.8662	
5	NO3N	7.140	0.967493	2.4706	2.4706	
6	PO4	9.317	1.248459	9.9383	9.9383	
7	SO4	11.133	2.795566	24.8943	24.8943	



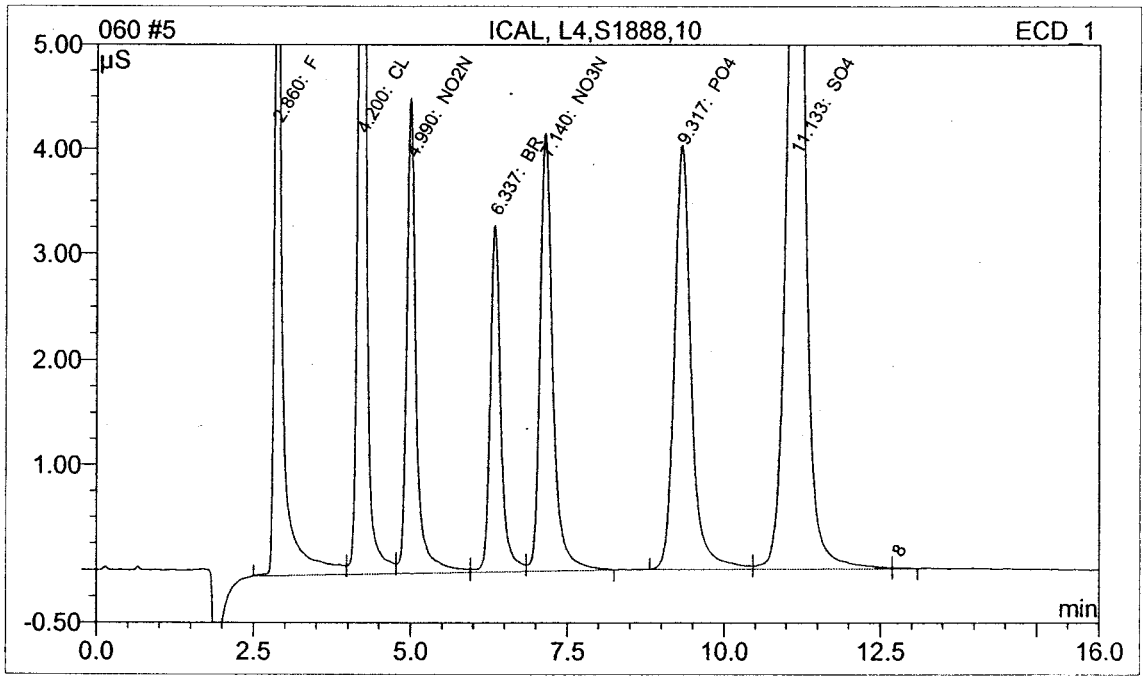
ANALYZED BY: REVIEWED BY:

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L4,S1888,10	**Sample No.:**	5
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 3:57 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.860	1.056871	5.0244	5.0244	
2	CL	4.200	1.636258	9.9916	9.9916	
3	NO2N	4.990	0.792664	2.5227	2.5227	
4	BR	6.337	0.658007	9.9696	9.9696	
5	NO3N	7.140	0.980796	2.4805	2.4805	
6	PO4	9.317	1.248459	9.9383	9.9383	
7	SO4	11.133	2.795566	24.8943	24.8943	



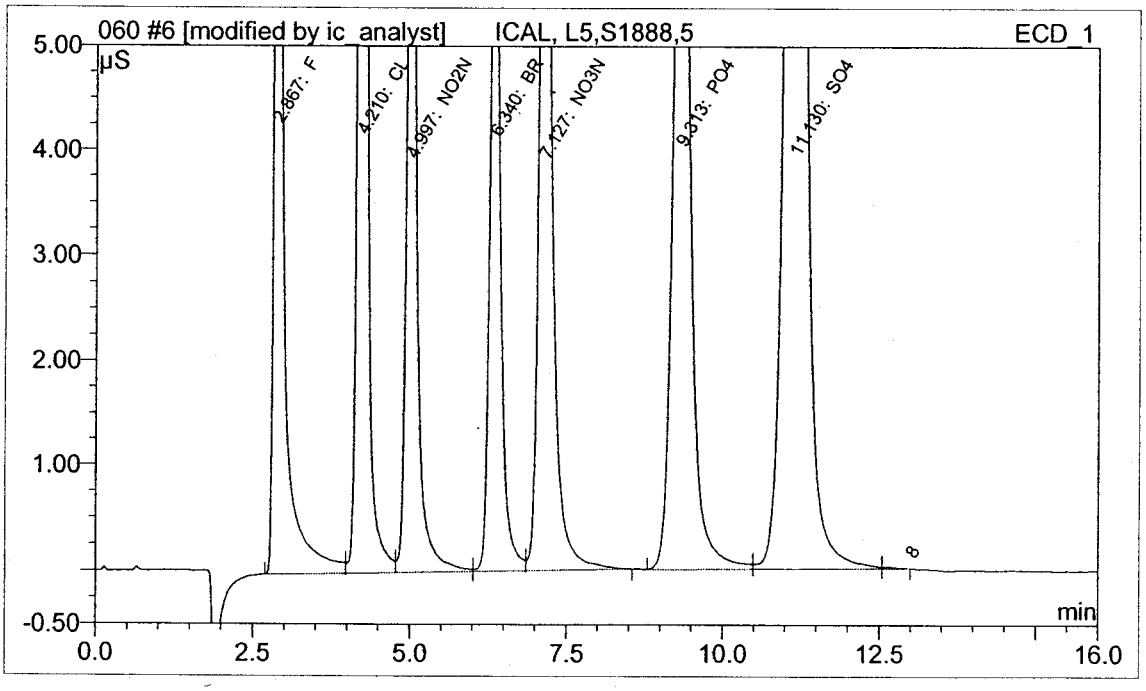
ANALYZED BY: REVIEWED BY:

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L5,S1888,5	**Sample No.:**	6
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:15 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.867	2.192959	10.0024	10.0024	
2	CL	4.210	3.519967	20.0067	20.0067	
3	NO2N	4.997	1.584757	5.0014	5.0014	
4	BR	6.340	1.345233	20.0232	20.0232	
5	NO3N	7.127	2.063887	5.0051	5.0051	
6	PO4	9.313	2.698316	20.0096	20.0096	
7	SO4	11.130	6.017213	50.0167	50.0167	



ANALYZED BY: _____

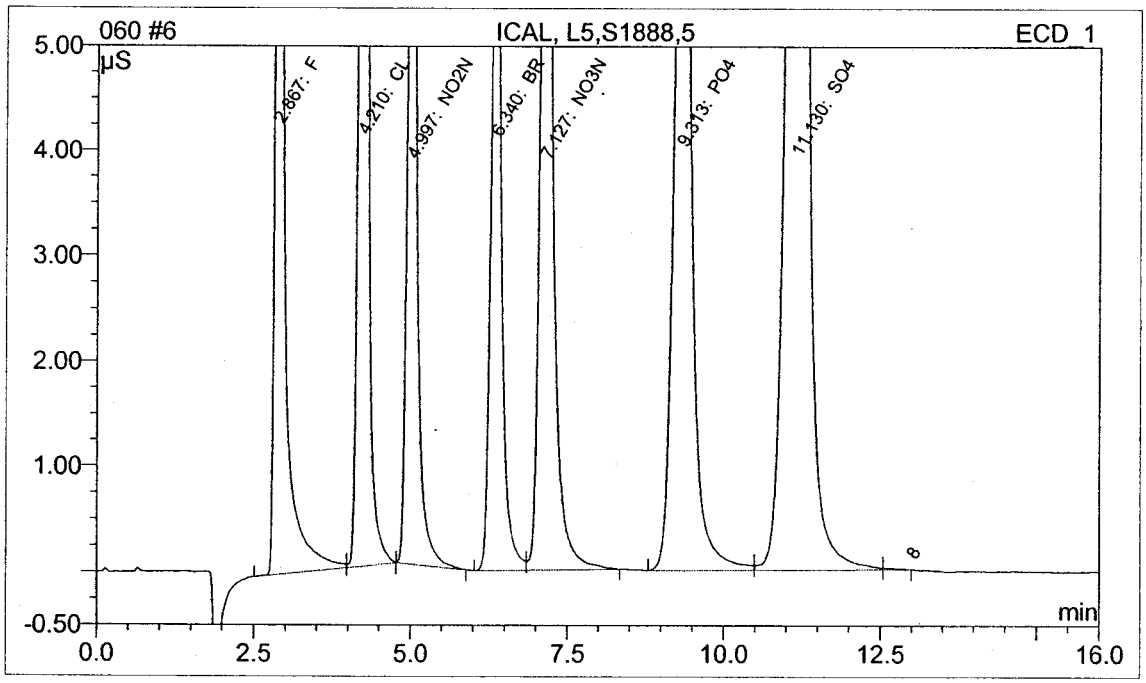
REVIEWED BY: _____

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L5,S1888,5	**Sample No.:**	6
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:15 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.867	2.155657	10.0007	10.0007	
2	CL	4.210	3.453075	20.0031	20.0031	
3	NO2N	4.997	1.510616	4.9988	4.9988	
4	BR	6.340	1.331781	20.0216	20.0216	
5	NO3N	7.127	2.045893	5.0047	5.0047	
6	PO4	9.313	2.698316	20.0096	20.0096	
7	SO4	11.130	6.017213	50.0167	50.0167	



ANALYZED BY: _____

REVIEWED BY: _____

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 187137 IC Water
EPA 300.0

Inst : IC03
Calnum : 626087283001 Cal Date: 01-MAR-2006

ICV 626087283007 (060_7.000 01-MAR-2006) stds: S1085 (5X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Fluoride	0.1990	0.1858	1.000	0.9473	mg/L	-5	10	
Chloride	0.1686	0.1455	2.000	1.920	mg/L	-4	10	
Nitrogen, Nitrite	0.2943	0.2873	0.5000	0.4860	mg/L	-3	10	
Nitrogen, Nitrate	0.3874	0.3456	0.5000	0.4606	mg/L	-8	10	
Sulfate	0.1099	0.1070	5.000	5.047	mg/L	1	10	

CURTIS & TOMPKINS SECOND SOURCE CALIBRATION VERIFICATION FOR EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626087283007 File : 060_7.000 Time : 01-MAR-2006 16:34
Cal : 626087283001 Caldate: 01-MAR-2006
Standards: S1085 (5X)

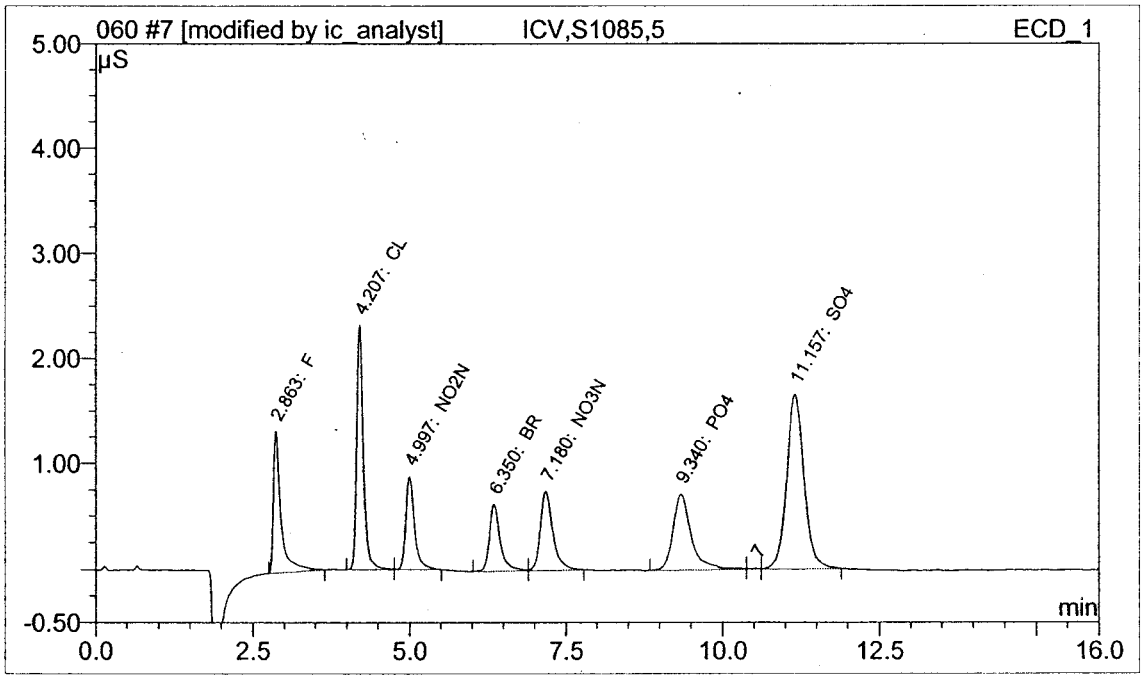
Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max	Flags
Fluoride	0.1990	0.1858	1.000	0.9473	mg/L	-5	10	
Chloride	0.1686	0.1455	2.000	1.920	mg/L	-4	10	
Nitrogen, Nitrite	0.2943	0.2873	0.5000	0.4860	mg/L	-3	10	
Bromide	0.0614	0.0638	2.000	2.050	mg/L	2	10	
Nitrogen, Nitrate	0.3874	0.3456	0.5000	0.4606	mg/L	-8	10	
Orthophosphate (as P)	0.1182	0.1201	2.000	2.029	mg/L	1	10	NT
Sulfate	0.1099	0.1070	5.000	5.047	mg/L	1	10	

MRS 3/2/06

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:34 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.863	0.185760	0.9473	0.9473	
2	CL	4.207	0.291093	1.9202	1.9202	
3	NO2N	4.997	0.143651	0.4860	0.4860	
4	BR	6.350	0.127568	2.0496	2.0496	
5	NO3N	7.180	0.172776	0.4606	0.4606	
6	PO4	9.340	0.240207	2.0292	2.0292	
8	SO4	11.157	0.534812	5.0468	5.0468	



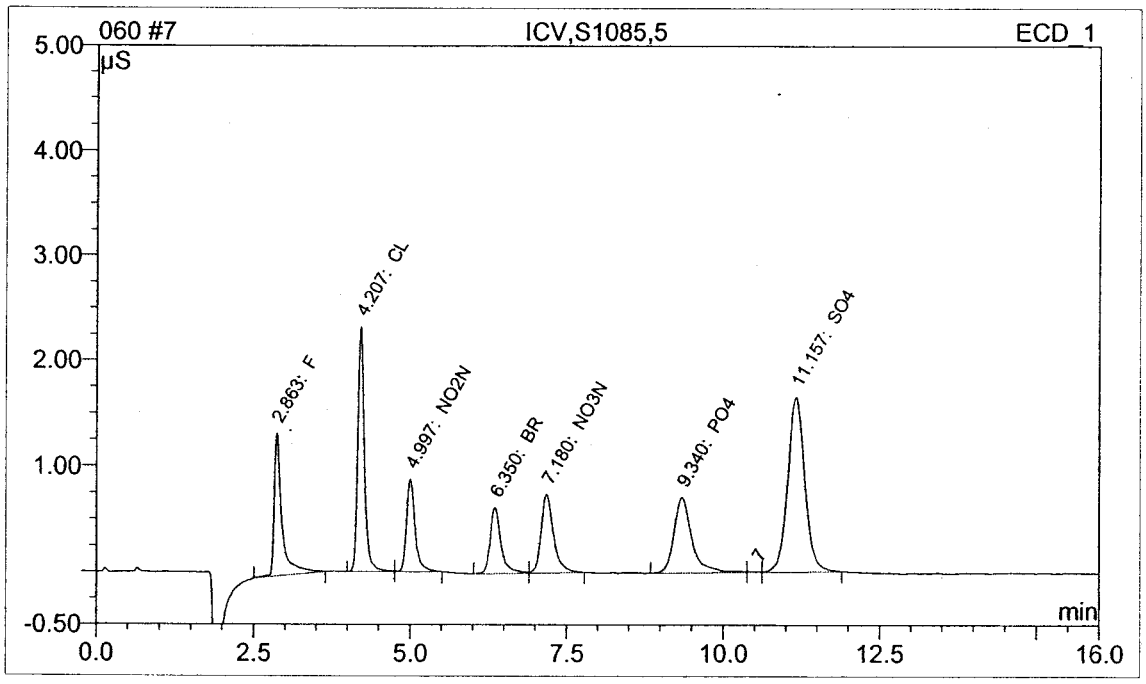
ANALYZED BY: REVIEWED BY:

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICV,S1085,5	**Sample No.:**	7
Sequence Name:	060	**Batch #:**	CAL-060
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	3/1/2006 4:34 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	2.863	0.193974	0.9887	0.9887	
2	CL	4.207	0.291093	1.9202	1.9202	
3	NO2N	4.997	0.143651	0.4860	0.4860	
4	BR	6.350	0.127568	2.0496	2.0496	
5	NO3N	7.180	0.172776	0.4606	0.4606	
6	PO4	9.340	0.240207	2.0292	2.0292	
8	SO4	11.157	0.534812	5.0468	5.0468	



ANALYZED BY: REVIEWED BY:

Curtis & Tompkins, Ltd.

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187137 IC Water
EPA 300.0

Inst : IC03 Run Name: L IDF : 1.0
Seqnum : 626216796007 File : 150_7.000 Time : 30-MAY-2006 12:21
Cal : 626087283001 Caldate : 01-MAR-2006
Standards: S3313 (100X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Fluoride	0.1990	0.1749	0.5000	0.4488	mg/L	-10	10	
Chloride	0.1686	0.1495	1.000	0.9945	mg/L	-1	10	
Nitrogen, Nitrite	0.2943	0.3221	0.2500	0.2733	mg/L	9	10	
Nitrogen, Nitrate	0.3874	0.3662	0.2500	0.2452	mg/L	-2	10	
Sulfate	0.1099	0.1051	2.500	2.500	mg/L	0	10	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187137 IC Water
EPA 300.0

Inst : IC03 Run Name: M IDF : 1.0
Seqnum : 626216796018 File : 150_18.000 Time : 30-MAY-2006 15:43
Cal : 626087283001 Caldate : 01-MAR-2006
Standards: S3313 (25X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Fluoride	0.1990	0.1921	2.000	1.934	mg/L	-3	10	
Chloride	0.1686	0.1519	4.000	3.937	mg/L	-2	10	
Nitrogen, Nitrite	0.2943	0.3093	1.000	1.037	mg/L	4	10	
Nitrogen, Nitrate	0.3874	0.3597	1.000	0.9487	mg/L	-5	10	
Sulfate	0.1099	0.1107	10.00	10.29	mg/L	3	10	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 187137 IC Water
EPA 300.0

Inst : IC03 Run Name: H IDF : 1.0
Seqnum : 626216796031 File : 150_31.000 Time : 30-MAY-2006 19:50
Cal : 626087283001 Caldate : 01-MAR-2006
Standards: S3313 (10X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Fluoride	0.1990	0.2061	5.000	4.993	mg/L	0	10	
Chloride	0.1686	0.1624	10.00	9.997	mg/L	0	10	
Nitrogen, Nitrite	0.2943	0.3191	2.500	2.610	mg/L	4	10	
Nitrogen, Nitrate	0.3874	0.3767	2.500	2.408	mg/L	-4	10	
Sulfate	0.1099	0.1159	25.00	25.74	mg/L	3	10	

CURTIS & TOMPKINS BLANK USER REPORT FOR 187137 IC Water
EPA 300.0

Inst	: IC03	Lab ID	: QC342142		
Seqnum	: 626216796008.3	Matrix	: Water		
File	: 150_8.000	Batch	: 113967	Time	: 30-MAY-2006 12:39
IDF	: 1.0	PDF	: 1.0	Units	: mg/L
Cal	: 626087283001	Caldate	: 01-MAR-2006		

Analyte	Result	RL	Flags
Fluoride	ND	0.10	
Chloride	ND	0.20	
Nitrogen, Nitrite	ND	0.05	
Nitrogen, Nitrate	ND	0.05	
Sulfate	ND	0.50	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 187137 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626216796019 File : 150_19.000 Time : 30-MAY-2006 16:02
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 187137 IC Water
EPA 300.0

Inst : IC03 IDF : 1.0
Seqnum : 626216796032 File : 150_32.000 Time : 30-MAY-2006 20:08
Cal : 626087283001 Caldate: 01-MAR-2006

Analyte	Quant	RL	MDL	Units	Flags
Fluoride	ND	0.1000	0.02324	mg/L	
Chloride	ND	0.2000	0.03217	mg/L	
Nitrogen, Nitrite	ND	0.05000	0.01206	mg/L	
Nitrogen, Nitrate	ND	0.05000	0.008826	mg/L	
Sulfate	ND	0.5000	0.07889	mg/L	

SEQUENCE SUMMARY FOR 187137 IC Water
Curtis & Tompkins Laboratories

Sequence: 626087283 Instrument: IC03 Ion Chromatograph Begun: 01-MAR-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	060_1.00	IB				01-MAR-2006 14:43	1.0		25				
002	060_2.00	ICAL	L1			01-MAR-2006 15:02	1.0					1	
003	060_3.00	ICAL	L2			01-MAR-2006 15:20	1.0					1	
004	060_4.00	ICAL	L3			01-MAR-2006 15:39	1.0					1	
005	060_5.00	ICAL	L4			01-MAR-2006 15:57	1.0					1	
006	060_6.00	ICAL	L5			01-MAR-2006 16:15	1.0					1	
007	060_7.00	ICV				01-MAR-2006 16:34	1.0		25			2	
008	060_8.00	ICB				01-MAR-2006 16:52	1.0		25				

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Stds used: 1=S1888 2=S1085

SEQUENCE SUMMARY FOR 187137 IC Water
Curtis & Tompkins Laboratories

Sequence: 626216796 Instrument: IC03 Ion Chromatograph Begun: 30-MAY-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
007	150_7.00	CCV	L	113967		30-MAY-2006 12:21	1.0		25			1	
008	150_8.00	CCB/MB	QC342142	113967	Water	30-MAY-2006 12:39	1.0		25				
009	150_9.00	BS	QC342143	113967	Water	30-MAY-2006 12:58	1.0		25			1	
010	150_10.0	X	QC342144	113967		30-MAY-2006 13:16	1.0					1	
011	150_11.0	BSD	QC342144	113967	Water	30-MAY-2006 13:34	1.0		25			1	
012	150_12.0	SAMPLE	186957-001	113967	Water	30-MAY-2006 13:53	10.0		25				
013	150_13.0	SAMPLE	186957-002	113967	Water	30-MAY-2006 14:11	10.0		25				
014	150_14.0	SAMPLE	186957-003	113967	Water	30-MAY-2006 14:30	10.0		25				
015	150_15.0	SAMPLE	186957-004	113967	Water	30-MAY-2006 14:48	10.0		25				
016	150_16.0	SAMPLE	186957-005	113967	Water	30-MAY-2006 15:07	10.0		25				
017	150_17.0	SAMPLE	186957-006	113967	Water	30-MAY-2006 15:25	10.0		25				
018	150_18.0	CCV	M	113967		30-MAY-2006 15:43	1.0		25			1	
019	150_19.0	CCB		113967		30-MAY-2006 16:02	1.0		25				
020	150_20.0	SAMPLE	186957-007	113967	Water	30-MAY-2006 16:20	10.0		25				
021	150_21.0	SAMPLE	186957-004	113967	Water	30-MAY-2006 16:39	1.0		25				
022	150_22.0	SAMPLE	186957-008	113967	Water	30-MAY-2006 16:57	1.0		25				434
023	150_23.0	SAMPLE	187093-004	113967	Water	30-MAY-2006 17:17	5.0	1	25				1:SO4=101.313
024	150_24.0	X	BLK	113967		30-MAY-2006 17:38	1.0						
025	150_25.0	SAMPLE	187093-004	113967	Water	30-MAY-2006 17:56	25.0		25				
026	150_26.0	SAMPLE	187138-006	113967	Water	30-MAY-2006 18:15	100.0		25				
027	150_27.0	SAMPLE	187138-004	113967	Water	30-MAY-2006 18:33	25.0		25				
028	150_28.0	MSS	187137-001	113967	Water	30-MAY-2006 18:55	1.0		25				
029	150_29.0	MS	QC342145	113967	Water	30-MAY-2006 19:13	1.02		25			1	
030	150_30.0	MSD	QC342146	113967	Water	30-MAY-2006 19:32	1.02		25			1	
031	150_31.0	CCV	H	113967		30-MAY-2006 19:50	1.0		25			1	
032	150_32.0	CCB		113967		30-MAY-2006 20:08	1.0		25				
033	150_33.0	X	CCV	113967		30-MAY-2006 20:27	1.0					1	
034	150_34.0	X	CCB	113967		30-MAY-2006 20:45	1.0						
035	150_35.0	SAMPLE	187138-001	113967	Water	30-MAY-2006 21:04	25.0		25				
036	150_36.0	SAMPLE	187138-002	113967	Water	30-MAY-2006 21:22	25.0		25				
037	150_37.0	SAMPLE	187138-001	113967	Water	30-MAY-2006 21:41	1.0	2	25				2:SO4=82.0033

Stds used: 1=S3313

SEQUENCE SUMMARY FOR 187137 IC Water
Curtis & Tompkins Laboratories

Sequence: 626216796 Instrument: IC03 Ion Chromatograph Begun: 30-MAY-2006
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
038	150_38.0	X	BLK	113967		30-MAY-2006 21:59	1.0						
039	150_39.0	SAMPLE	187138-002	113967	Water	30-MAY-2006 22:17	1.0	2	25				2:CL=81.7606
040	150_40.0	X	BLK	113967		30-MAY-2006 22:36	1.0						
041	150_41.0	SAMPLE	187138-004	113967	Water	30-MAY-2006 22:54	1.0	2	25				2:SO4=279.504
042	150_42.0	X	BLK	113967		30-MAY-2006 23:13	1.0						
043	150_43.0	SAMPLE	187138-006	113967	Water	30-MAY-2006 23:31	2.0	2	25				2:SO4=390.115
044	150_44.0	X	BLK	113967		30-MAY-2006 23:49	1.0						
045	150_45.0	CCV	L	113967		31-MAY-2006 00:08	1.0	3	25			1	
046	150_46.0	CCB		113967		31-MAY-2006 00:26	1.0		25				
047	150_47.0	X	CCV	113967		31-MAY-2006 00:45	1.0					1	
048	150_48.0	X	CCB	113967		31-MAY-2006 01:03	1.0						
049	150_49.0	X	SHUTDOWN	113967		31-MAY-2006 01:21	1.0						

435

Stds used: 1=S3313

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 187137 IC Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	CL	NO2N	NO3N	SO4	
187137-001	IC03	05/30/06 18:55	1.0	+	+	+	+	+	
QC342142	IC03	05/30/06 12:39	1.0	+	+	+	+	+	
QC342143	IC03	05/30/06 12:58	1.0	+	+	+	+	+	
QC342144	IC03	05/30/06 13:34	1.0	+	+	+	+	+	
QC342145	IC03	05/30/06 19:13	1.02	+	+	+	+	+	
QC342146	IC03	05/30/06 19:32	1.02	+	+	+	+	+	

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 113967
Date Started: 30-MAY-2006
Batched by : Micah Smith

Analysis : N/A
Bgroup : IC
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
186957-001			Best Environmental	Water	SULFATE	01-JUN-2006
186957-002			Best Environmental	Water	SULFATE	01-JUN-2006
186957-003			Best Environmental	Water	SULFATE	01-JUN-2006
186957-004			Best Environmental	Water	SULFATE	01-JUN-2006
186957-005			Best Environmental	Water	SULFATE	01-JUN-2006
186957-006			Best Environmental	Water	SULFATE	01-JUN-2006
186957-007			Best Environmental	Water	SULFATE	01-JUN-2006
186957-008			Best Environmental	Water	SULFATE	01-JUN-2006
187093-004			LFR Levine Fricke	Water	SULFATE	02-JUN-2006
187137-001			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	09-JUN-2006
187138-001			Tetra Tech EC, INC	Water	CHLORIDE, NITRATE, SULFATE	09-JUN-2006
187138-002			Tetra Tech EC, INC	Water	CHLORIDE, NITRATE, SULFATE	09-JUN-2006
187138-004			Tetra Tech EC, INC	Water	CHLORIDE, NITRATE, SULFATE	09-JUN-2006
187138-006			Tetra Tech EC, INC	Water	CHLORIDE, NITRATE, SULFATE	09-JUN-2006
QC342142	BLANK			Water		
QC342143	BS			Water		
QC342144	BSD			Water		
QC342145	MS	of 187137-001		Water		
QC342146	MSD	of 187137-001		Water		

Curtis & Tompkins, Ltd. **Water Prep Log** Ion Chromatography

Analysis: ☒ Anions EPA 300 / EPA 9056
☐ Perchlorate (ClO_4) EPA 314
☐ Cr6+ EPA 7199

Batch#: 113967
Date Started: 5/30/06
Prep Chemist: MRS

BK 2305
Page 42

	Sample #	Conductivity	Estimated Dilution Factor	Filters Used	Comments
1	186957-001 A	N/A	10x	N/A	
2	-002				
3	-003				
4	-004		1X		
5	-005				
6	-006				
7	-007				
8	-008		1X		
9	187093-004 F	1.05	5X 25X	S	
10	187137-001 I	0.02	1X	S	MSS
11	187138-001 G	1.32	25X 1X		
12	-002 F	1.51	25X 1X		
13	-004 G	1.90	25X 1X		
14	-006 G	3.52	100X 2X		
15	Blank QC342142	N/A	1X	N/A	
16	BS QC342143				
17	BSD QC342144				
18	MS QC342145 I		1.02X	S	
19	MSD QC342146 I		1.02X	S	
20					

MRS 5/30/06

		Mfg & Lot # / Time / Program	Initials / Date
Eluent Reagent ID		100X MRS 4/17/06	MRS 5/30/06
BS/BSD Spiked with	0.2 mL of :	S3313	
MS/MSD Spiked with	0.1 mL of :	S3313	
Filters Used:	Ag: OnGuard II Ag	N/A	
	Na: OnGuard II Na		
	P: OnGuard II P		
	RP: OnGuard II RP		
	S: (0.20um)/0.45um	Acrodisc lot # A1053946	

MRS 5/30/06
Extraction Chemist / Date

Continued from page ___
Continued on page ___

CP 5/31/06
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 300.0 Water
As of 06/20/06

Analyte	Units	IC01	IC03
Fluoride	mg/L	0.018	0.023
Chloride	mg/L	0.026	0.032
Nitrogen, Nitrite	mg/L	0.0067	0.012
Bromide	mg/L	0.058	0.028
Nitrogen, Nitrate	mg/L	0.018	0.0088
Orthophosphate (as P)	mg/L	0.045	0.037
Sulfate	mg/L	0.046	0.079

Curtis & Tompkins, Ltd.

Total Dissolved Solids (TDS)

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Batch#:	114037
Field ID:	DW053006B	Sampled:	05/30/06
Matrix:	Water	Received:	05/30/06
Units:	mg/L	Analyzed:	06/01/06

Type	Lab ID	Result	RL	Diln Fac
SAMPLE	187137-001	60	50	5.000
BLANK	QC342432	ND	10	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Dissolved Solids (TDS)

Lab #:	187137	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Batch#:	114037
Field ID:	ZZZZZZZZZZ	Sampled:	05/31/06
MSS Lab ID:	187146-001	Received:	05/31/06
Matrix:	Water	Analyzed:	06/01/06
Units:	mg/L		

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim	Diln Fac
BS	QC342433		100.0	82.00		82	79-121			1.000
BSD	QC342434		100.0	84.00		84	79-121	2	20	1.000
SDUP	QC342435	10,960		10,940	100.0			0	20	10.00

RL= Reporting Limit
RPD= Relative Percent Difference

Analysis:	**Total Dissolved Solids**	Analysis Date:	**01-Jun-06**
Method:	EPA160.1 / SMWW 2540C	Batch #:	**114037**
Matrix:	Water	Analyst:	**RS**
SOP#:	tds_rv 9.doc		

BATCH QC DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)	Spike Std Conc (mg/L)	Spike Vol.Used (mL)	Spiking Level (mg/L)	**Recovery,%**	**RPD,%**
MB	50	1	55.7092	55.7062	-0.0030	ND	10					
BS	50	1	49.1512	49.1553	0.0041	82.0	10	1,000	5	100	**82**	
BSD	50	1	49.1800	49.1842	0.0042	84.0	10	1,000	5	100	**84**	**2.41**
187146-001	5	10	24.7306	24.7854	0.0548	10,960.0	100					
SDUP	5	10	26.3705	26.4252	0.0547	10,940.0	100					**0.18**

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	79 - 121
MS/ MSD	20	69 - 131

SAMPLE DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)
187112-002	10	5	50.6732	50.6775	0.0043	430	50
187112-003	10	5	50.6638	50.6902	0.0264	2,640	50
187112-004	10	5	45.9155	45.9321	0.0166	1,660	50
187112-013	1	50	45.1335	45.1391	0.0056	5,600	500
187119-005	10	5	49.6928	49.6948	0.0020	200	50
187119-006	10	5	49.0767	49.0795	0.0028	280	50
187127-001	10	5	29.2053	29.3192	0.1139	11,390	50
187127-002	10	5	24.3652	24.3713	0.0061	610	50
187127-003	10	5	29.3216	29.3463	0.0247	2,470	50
187137-001	10	5	25.7310	25.7316	0.0006	60	50
187166-004	10	5	26.6284	26.6302	0.0018	180	50
187166-005	10	5	25.1814	25.1831	0.0017	170	50

442

Note: Because the regulatory holding time is based on the prep date, the analysis date referenced above is the prep date.

Reviewed by/ Date: TKM 6/9/06

TDS (Total Dissolved Solids)
EPA 160.1 / SMWW 2540C

Curtis & Tompkins, Ltd

LIMS Batch #: 114051

Prep Date: 6-1-06
Prep Time: 18:25

Benchbook#: **BK2254**
Page: **30**

Filter Mfg/ Lot#: [illegible]
Spike WS#: 92182

Spike WS Conc (mg/L): 1,000
Spike Vol Added (mL): 5

	In	Out	In-2	Out-2	In-3	Out-3	In-4	Out-4
Date:	6-1-06	6-5-06	6-6-06	6-6-06	6-6-06	6-6-06	6-7-06	[illegible]
Time:	19:25	12:30	9:40	12:00	14:00	15:00	12:30	[illegible]
Temp (C):	90°C	180°C	180°C	180°C	180°C	180°C	180°C	[illegible]

	Sample # / Letter	EC Value (µS/cm)	Sample Vol. Filtered (mL)	Dish ID	Dish Wt (g)	1st Dry Wt.(g)	2nd Dry Wt (g)*	3rd Dry Wt (g)*
1	MB		50	XXX	55.7092	55.7062	55.7060	
	BS			USB	49.1512	49.1548	49.1553	49.155
	BSD			XXZ	49.1800	49.1842	49.1840	
	187112-002F	707	10	5+	50.6732	50.6775	50.6788	50.677
5	-003B	4,000		Δ	50.6638	50.6902	50.6903	
	-004	2,060		MPS	45.9155	45.9310	45.9321	45.932
	-013	20,800	1	LS	45.1335	45.1393	45.1446	45.1391
	187119-005A	140	10	11	49.6928	49.6948	49.6950	
	-006	128		7	49.0767	49.0778	49.0795	49.079
10	187127-001J	1,200		RB	29.2053	29.3179	29.3192	29.3190
	-002	500		LKF	24.3652	24.3736	24.3713	24.3710
	-003	776		20B	29.3216	29.3442	29.3463	29.346
	187137-001I	15		RK	25.7310	25.7316	25.7312	
	187146-001B	17,000	5	3KF	24.7306	24.7854	24.7850	
15	solvp -001			RR*	26.3705	26.4293	26.4352	26.4254
	187166-004A	107 05/61	10	15	26.6284	26.6302	26.6300	
	-005	592.2		SMB	25.1814	25.1831	25.1826	
20								

* Constant weight must be within 0.0005 from previous reading.

4th wt (gm)

187112-002	50.6778
187112-013	45.1395

RSCUFF 6/1/06
Analyst / Date

Ow 6-7-06
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 114037
Date Started: 01-JUN-2006
Batched by : Radia Shiffa

Analysis : TDS
Bgroup : N/A
Department : Wet Chemistry

Sample	Type	Client	Matrix	Analyses	Due Date
187112-002		Treadwell & Rollo	Water	TDS	08-JUN-2006
187112-003		Treadwell & Rollo	Water	TDS	08-JUN-2006
187112-004		Treadwell & Rollo	Water	TDS	08-JUN-2006
187112-013		Treadwell & Rollo	Water	TDS	08-JUN-2006
187119-005		U.S. Army Corps of	Water	TDS	08-JUN-2006
187119-006		U.S. Army Corps of	Water	TDS	08-JUN-2006
187127-001		New Logic Research	Water	TDS	09-JUN-2006
187127-002		New Logic Research	Water	TDS	09-JUN-2006
187127-003		New Logic Research	Water	TDS	09-JUN-2006
187137-001		Treadwell & Rollo	Water	TDS	09-JUN-2006
187146-001		Acme Fill Corp.	Water	TDS	12-JUN-2006
187166-004		U.S. Army Corps of	Water	TDS	13-JUN-2006
187166-005		U.S. Army Corps of	Water	TDS	13-JUN-2006
QC342432	BLANK		Water	TDS	
QC342433	BS		Water	TDS	
QC342434	BSD		Water	TDS	
QC342435	SDUP of 187146-001		Water	TDS	

APPENDIX F
CAS Analytical Data Reports

Table F-1
Columbia Analytical Services
Sample Delivery Group Index List
First Quarter 2006
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

Location ID	Sample Date	SDG Number
1260GW102CL	3/9/2006	D0600027
950GW108CL	3/9/2006	D0600027
1047MW101CL	3/7/2006	DH005
1065PZ5ARCL	3/7/2006	DH005
1349MW102CL	3/7/2006	DH005
610GW103CL	3/7/2006	DH005
LF4GW103CL	3/7/2006	DH005
LF5GW104CL	3/7/2006	DH005
231GW21CL	3/8/2006	DH009
BB3SW104C	3/8/2006	DH009
DAESP03CL	3/8/2006	DH009
LF01GW01CL	3/8/2006	DH009

5090 Caterpillar Road Redding, California 96003 (530) 244-5227 ph (530) 244-4109 fax

Columbia Analytical Services INC.
An Employee - Owned Company

RECEIVED
APR 19 2006
TREADWELL & ROLLO

April 17, 2006

Service Request No: D0600027

Josh Graber
Treadwell and Rollo
555 Montgomery St.
San Francisco, CA 94111

RE: Presidio/2893

Dear Josh:

Enclosed are the results of the sample(s) submitted to our laboratory on March 11, 2006. For your reference, these analyses have been assigned our service request number D0600027.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 123. You may also contact me via email at DBurnett@redding.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Douglas Burnett
Project Chemist

TABLE OF CONTENTS

CAS Service Request: D0600027
CAS Tier Level: IV

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5	Inorganic Data Qualifiers
6	Sample Identification Cross-Reference
7	Case Narrative
9	Chain of Custody Documentation
13	GC TPH DIESEL/MOTOR OIL
35	GC TPH GASOLINE
53	GC/MS VOLATILES
92	HPLC POLYNUCLEAR AROMATIC HYDROCARBONS
119	HPLC

Current CAS Redding Accreditation Program s

Federal and National Programs

- U.S Air Force, Air Force Center for Environmental Excellence (AFCEE)
  Approved laboratory for Wastewater and Hazardous Waste
- U.S. Army Corps of Engineers – MRD, HTRW Mandatory Center of Expertise
  Validated for Wastewater and Hazardous Waste
- Department of the Navy, Naval Facilities Engineering Service Center (NFESC)
  Approved laboratory for Wastewater and Hazardous Waste

State and Local Programs

- State of Arizona, Department of Health Services
  Approved laboratory for Hazardous Waste
  Lab ID# AZ0604
- State of Arkansas, Department of Environmental Quality
  Approved laboratory for Wastewater and Hazardous Waste
  Lab ID# None
- State of California, Department of Health Services, National Environmental Laboratory Accreditation Program (NELAP)
  Approved laboratory for Drinking Water, Wastewater and Hazardous Waste
  Lab ID# 01105CA
  - Los Angeles County Sanitation District
    Approved laboratory for Wastewater
    Lab ID# 10243
- State of Florida, Department of Health (NELAP)
  Approved Environmental Testing Laboratory for Wastewater and Hazardous Waste
  Lab ID# E87203
- State of Kansas, Department of Health and Environment (NELAP)
  Approved laboratory for Hazardous Waste
  Lab ID# E-10323
- State of Massachusetts, Department of Environmental Protection
  Approved laboratory for Drinking Water, Wastewater
  Lab ID# M-CA025
- State of Oklahoma, Department of Environmental Quality
  Approved laboratory for General Water Quality/Sludge Testing
  Lab ID# 9952
- State of Oregon, Department of Human Resources, Health Division (ORELAP)
  Approved laboratory for Drinking Water, Wastewater, and Hazardous Waste
  Lab ID# CA200004
- State of Utah, Department of Health, Division of Laboratory Services (NELAP)
  Approved laboratory for Wastewater and Hazardous Waste
  Lab ID# QUAL1
- State of Washington, Department of Ecology, Environmental Laboratory Accreditation Program
  Approved laboratory for Wastewater and Hazardous Waste
  Lab ID# C037
- State of Wisconsin, Department of Ecology
  Approved laboratory for Wastewater and Hazardous Waste
  Lab ID# 999767340

Updated 10/7/2005

Organic Department Qualifiers

Organic Sample ID Qualifiers

A This qualifier indicates that a TIC is a suspected aldol-condensation product

B Used when the analyte is found in the associated blank as well as the sample, indicating possible blank contamination. The data user should evaluate these compounds and their amounts carefully.

C The "C" flag indicates the presence of this compound has been confirmed by the GC/MS analysis.

D This qualifier is used for all the compounds identified in an analysis at a secondary dilution factor. "D" qualifiers are used only for the samples reported at more than one dilution factor.

E This flag indicates that the value reported exceeds the linear calibration range for that compound. Therefore, the sample should be reanalyzed at the appropriate dilution. The "E" qualified amount is an estimated concentration, and the results of the dilution will be reported on a separate Form I.

I The qualifier indicates that the reporting limit to the "I" qualifier has been raised. It is used when the chromatographic interference prohibits detection of a compound at a level below the concentration expressed on the Form I.

J Indicates an estimated value. It is used when the data indicates the presence of a target compound below the reporting limit or the presence of a Tentatively Identified Compound (TIC).

N This qualifier indicates presumptive evidence of a compound. This flag is only used for Tentatively Identified Compounds (TIC), where the identification is based on a mass spectral library research. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the "N" qualifier is not used.

P This qualifier is used for target analytes when there is a greater than 40% difference for detected concentrations between the two columns or detectors. The concentration value is reported on Form I and flagged with a "P".

U Indicates the compound was analyzed for but not detected. The number adjacent to the "U" qualifier indicates the reporting limit for that compound. The reporting limit can vary from sample to sample depending on dilution factors or percent moisture adjustments when indicated.

Z Indicates an estimated value between the method detection limit and zero.

Organic Sample ID Qualifiers

These qualifiers may be appended to the Lab Sample ID and/or the Client Sample ID for organic analysis.

DL Diluted reanalysis. Indicates that the results were determined in an analysis of a secondary dilution of a sample or extract. A digit to indicate multiple dilutions of the sample or extract may follow the "DL" suffix. The results of more than one diluted reanalysis may be reported.

MS Matrix spike (may be followed by a digit to indicate multiple matrix spikes within a sample set).

MSD Matrix spike duplicate (may be followed by a digit as noted above in the MS explanation).

R Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. If followed by a digit, indicates multiple reanalysis of the sample at the same dilution.

RE Re-extraction analysis. The sample was re-extracted and reanalyzed. May be followed by a digit to indicate multiple re-extracted analysis of the same sample at the same dilution.

Inorganic Data Qualifiers
Cations

C (Concentration) Qualifier:

B -- The reported value obtained was less than the CRDL, but greater than or equal to the MDL/IDL.

U -- The value was less than the MDL/IDL or was not detected.

Q Qualifier:

E -- The reported value is estimate because of interference.

M -- Duplicate injection precision was not met. (Two analyses of the sample did not agree).

N -- Spiked sample recovery not within control limits.

S -- The reported value was determined by the Method of Standard Additions (MSA).

J -- Post digestion spike for Graphite Furnace AA analyses is out of control limits (85% - 115%), while sample absorbance is less than 50% of spike absorbance.

***** -- Duplicate analysis not within control limits.

+ -- Correlation coefficient for the MSA is less than 0.995.

M (Method) Qualifier:

P -- ICP

A -- Flame AA

F -- Furnace AA

CV -- Cold Vapor

AV -- Automated Cold Vapor

NR -- Analyte was not required

C -- Manual spectrophotometric

RRL (Reliable Reporting Limit):

RRL -- The reliable reporting limit was established to qualify analytical results for which no CRDL was Available, or did not apply. The RRL is a concentration approximately four times the Method Detection Limit (MDL).

Client: Treadwell and Rollo
Project: Presidio/2893

Service Request: D0600027

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
D0600027-001	950GW108CL	03/09/06	11:15
D0600027-002	1260GW102CL	03/09/06	12:25
D0600027-003	TB0309063A	03/09/06	00:00

CASE NARRATIVE

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Treadwell and Rollo, Inc.	**Service Request No.:**	D0600027
Project:	Presidio of San Francisco	**Date Received:**	3/11/06
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III validation deliverables.

Sample Receipt

Three water samples were received for analysis at Columbia Analytical Services on 3/11/06. No discrepancies were noted upon initial sample inspection. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Diesel/Motor Oil Range Organics by EPA Method 8015B

No anomalies associated with the analysis of these samples by the above-mentioned method were observed.

Gasoline Range Organics by EPA Method 8015B

No anomalies associated with the analysis of these samples by the above-mentioned method were observed.

BTEX by EPA Method 8021

No anomalies associated with the analysis of these samples by the above-mentioned method were observed.

Volatile Organic Compounds by EPA Method 8260B

Initial Calibration (ICAL) Exceptions:
The primary evaluation criterion was exceeded for the following analytes in ICAL ID 03/15/2006: Chloroethane and Acetone. In accordance with CAS standard operating procedures, the alternative evaluation specified in the EPA method was performed using the mean Relative Standard Deviation (RSD) of all analytes in the calibration. The result of the mean RSD calculation was 6.38%. The calibration meets the alternative evaluation criteria. Note that CAS/Redding policy does not allow the use of averaging if any analyte in the ICAL exceeds 40% RSD.

Elevated Method Reporting Limits:
Sample 950GW108CL required dilution due to the presence of elevated levels of target analyte. The reporting limits are adjusted to reflect the dilution.

Polynuclear Aromatic Hydrocarbons by EPA Method 8310

Continuing Calibration Verification (CCV) Exceptions:
The upper control criterion was exceeded for the following analytes in CCV I0325003 and I0325012 for the Fluorescence detector: Fluorene. The field samples analyzed in this sequence did not contain the analyte(s) in question. Fluorene met the acceptance criteria for the UV detector. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

Matrix Spike Exceptions:
Insufficient sample volume was received to perform a Matrix Spike/Matrix Spike Duplicate (MS/MSD). A Laboratory Control Sample/Duplicate Laboratory Control Sample (LCS/DLCS) was analyzed in order to report precision data.

Approved by: _____ **Date:** 4-17-06

CHAIN OF CUSTODY DOCUMENTATION

Treadwell&Rollo S2600075

Environmental and Geotechnical Consultants

555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2099
Page: ___ of ___

D0600027 ~~D11015~~

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTS / Mike Toll
Recorder (signature required): Z. Hall
Sent to Laboratory (Name): Columbia Analytical

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

REQUESTED ANALYSES

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) MTBE	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)							COMMENTS / NOTES
950GW108CL	3/9/06	1115	1		X		6				2	X	X	X	X													

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - Indicate in the metals column (by number) which metals list is requested. Metals Lists (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (Other -)

RELINQUISHED BY: Z. Hall	DATE: 3/10/06	RECEIVED BY: [signature]	DATE: 3/10/06 1630		
PRINT NAME: Mike Toll	FIRM: Blaine Tech Services	TIME: 1630	PRINT NAME: P. Binns	FIRM: CAS	TIME:
RELINQUISHED BY: [signature]	DATE: 3/10/06	RECEIVED BY: D Chalmers	FIRM: CAS Redding	DATE: 3/11/06 1000	
PRINT NAME: P. Binns	FIRM: CAS via GSO	TIME: 1715	PRINT NAME:	FIRM:	TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

White Copy - Original **Yellow Copy** - Laboratory **Pink Copy** - Field

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Treadwell&Rollo

Environmental and Geotechnical Consultants

555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

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CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. 0P 2028

D0600027
Treadwell and Rollo
Presidio

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): John DeJong (BTS)
Recorder (signature required):
Sent to Laboratory (Name):

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

REQUESTED ANALYSES

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260)	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	BTEX, MtBE					COMMENTS / NOTES
1260GW102CL	3/9/06	1225	2		X		3				4	X	X	X							X	X					
TB0309063A	3/9/06		3		X		2																				on hold

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY:	DATE: 3/10/06	RECEIVED BY:		DATE: 3/10/06	
PRINT NAME:	FIRM: TIME: 1630	PRINT NAME: P. BINS	FIRM: CAS	TIME: 1630	
RELINQUISHED BY:	DATE: 3/10/06	RECEIVED BY:	CAS Redding	DATE: 3/11/06	
PRINT NAME: P. BINS	FIRM: CAS VIA GSO TIME: 1715	PRINT NAME:	FIRM:	TIME: 1000	

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

White Copy - Original **Yellow Copy** - Laboratory **Pink Copy** - Field

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Columbia Analytical Services Inc.
Cooler Receipt And Preservation Form

Project/Client: Presidio/Treadwell and Rollo, Inc.

Work Order: D0600027

Cooler received on 03/11/2006 and opened on 3/11/06 by NCPham

1.	Were custody seals on outside of cooler?		Y	N	9. Did all bottle labels and tags agree with custody papers?	NA	Y N
2.	Were seals intact and signature & date correct?	NA	Y	N	10. Were the correct types of bottles used for the tests indicated?	NA	Y N
3.	Is the shipper's airbill available and filed?		Y	N	11. Were all of the preserved bottles received at the lab with the appropriate pH?	NA	Y N
4.	COC #				12. Were VOA vials checked for absence of air bubbles, and if present, noted below?	NA	Y N
5.	Were custody papers properly filled out (ink, signed, etc.)?	NA	Y	N	13. Did the bottles originate from CAS/D or a branch laboratory?		Y N
6.	Type of packing material present ice				14. Are CWA Microbiology samples received with >½ the 24 hr. hold time remaining from collection?	NA	Y N
7.	Did all bottles arrive in good condition (unbroken)?	NA	Y	N	15. Was Cl2/Res negative?	NA	Y N
8.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	NA	Y	N			

Lab Code	Sample Name
D0600027-001	950GW108CL

40ml-Glass Vial CLEAR Tef/Silicone Septa(HCL)

Bottle ID	Barcode	Expected Conditions HS	Expected Conditions pH	Expected Conditions Temp	Cooler #	Received Conditions Rec Temp	Received Conditions pH Check	Received Conditions Rec HS	Seal Intact?	Corrective Action
D0600027-001.01		NA		-	CAS/S	2.0	Pass	PASS	N	
Test List: 8260B 8021B 8015B										
D0600027-001.02		NA		-	CAS/S	2.0	Pass	PASS	N	
Test List: 8260B 8021B 8015B										
D0600027-001.03		NA		-	CAS/S	2.0	Pass	PASS	N	
Test List: 8260B 8021B 8015B										
D0600027-001.04		NA		-	CAS/S	2.0	Pass	PASS	N	
Test List: 8260B 8021B 8015B										
D0600027-001.05		NA		-	CAS/S	2.0	Pass	PASS	N	
Test List: 8260B 8021B 8015B										
D0600027-001.06		NA		-	CAS/S	2.0	Pass	PASS	N	
Test List: 8260B 8021B 8015B										

1000mL-Glass Bottle WM AMBER Teflon Liner(Unpreserved)

Bottle ID	Barcode	Expected Conditions HS	Expected Conditions pH	Expected Conditions Temp	Cooler #	Received Conditions Rec Temp	Received Conditions pH Check	Received Conditions Rec HS	Seal Intact?	Corrective Action
D0600027-001.07		NA		-	CAS/S	2.0	Pass	PASS	N	
Test List: 8015B										

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GC TPH DIESEL/MOTOROIL

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Collected: 03/09/2006
Date Received: 03/11/2006

Diesel Range Organics / Motor Oil Range Organics

Sample Name: 950GW108CL
Lab Code: D0600027-001
Extraction SW3510
Analysis Method: SW8015

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Motor Oil (C24-C36)	ND	U	300	1	03/16/2006	04/14/2006	DWB10316	
TPH-Diesel (C10-C24)	**120**		50	1	03/16/2006	04/14/2006	DWB10316	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	114	65-135	04/14/2006	
Triacontane - SS	112	65-135	04/14/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Collected: 03/09/2006
Date Received: 03/11/2006

Diesel Range Organics / Motor Oil Range Organics

Sample Name: 1260GW102CL
Lab Code: D0600027-002
Extraction SW3510
Analysis Method: SW8015

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Motor Oil (C24-C36)	ND	U	300	1	03/16/2006	04/14/2006	DWB10316	
TPH-Diesel (C10-C24)	**120**		50	1	03/16/2006	04/14/2006	DWB10316	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	109	65-135	04/14/2006	
Triacontane - SS	110	65-135	04/14/2006	

Comments: _____

QC Summary

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Collected: NA
Date Received: NA

Diesel Range Organics / Motor Oil Range Organics

Sample Name: Method Blank
Lab Code: DWB10316
Extraction SW3510
Analysis Method: SW8015

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Motor Oil (C24-C36)	ND	U	300	1	03/16/2006	04/14/2006	DWB10316	
TPH-Diesel (C10-C24)	ND	U	50	1	03/16/2006	04/14/2006	DWB10316	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	103	65-135	04/14/2006	
Triacontane - SS	106	65-135	04/14/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027

Surrogate Recovery Summary
Diesel Range Organics / Motor Oil Range Organics

Prep Method: SW3510
Analysis Method: SW8015

Units: Percent

Sample Name	Lab Code	Q	S1	S2
Method Blank	DWB10316		103	106
Laboratory Control Sample	DWB10316LCS		102	101
Laboratory Control Sample Duplicate	DWB10316LCSD		85	83
950GW108CL	D0600027-001		114	112
1260GW102CL	D0600027-002		109	110

Surrogate Recovery Control Limits (%)

S1:	Octacosane - SS	65-135
S2:	Triacontane - SS	65-135

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	Treadwell and Rollo,	**Service Request:**	D0600027
Project:	Presidio	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	03/16/2006
		Date Analyzed:	04/14/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Diesel Range Organics / Motor Oil Range Organics

LCS Sample	Lab Control Sample	**DMS Sample**	Lab Control Sample Duplicate
Lab Code:	DWB10316LCS	**Units:**	ug/L (ppb)
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Motor Oil (C24-C36)	SW3510	SW8015	300	2500	2170	2030	87	81	65-135	7	
TPH-Diesel	SW3510	SW8015	50	2500	2560	2340	102	94	65-135	9	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Extracted: 03/16/2006
Date Analyzed: 04/14/2006
Time Analyzed: 04:12

Method Blank Summary
Diesel Range Organics / Motor Oil Range Organics

Extaction Method: SW3510
Analysis Method: SW8015

Extraction Lot: DWB10316
Level:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	DWB10316LCS	G0413015	04/14/2006	04:57
Laboratory Control Sample Duplicate	DWB10316LCSD	G0413016	04/14/2006	05:42
950GW108CL	D0600027-001	G0413017	04/14/2006	06:27
1260GW102CL	D0600027-002	G0413018	04/14/2006	07:12

Standards data

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
ICAL Date: 03/14/2006

Initial Calibration Summary
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 03/14/2006GCG
Instrument ID: GCG

Level ID	File ID	Level ID	File ID
A	G0314002	F	G0314007
B	G0314003		
C	G0314004		
D	G0314005		
E	G0314006		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Motor Oil (C24-C36)	A	0.100	14488	B	0.500	11892	C	1.000	13738	D	2.500	13670	E	4.000	12373
	F	0.050	19278												
TPH-DIESEL (C10-C24)	A	0.100	35580	B	0.500	22170	C	1.000	24788	D	2.500	23777	E	4.000	20991
	F	0.050	46187												
Triacontane	A	0.100	18792	B	0.150	16553	C	0.250	19484	D	0.300	19539	E	0.350	17454
	F	0.015	19889												
Octacosane	A	0.100	19479	B	0.150	17139	C	0.250	20140	D	0.300	20283	E	0.350	18113
	F	0.015	19973												

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
ICAL Date: 03/14/2006

Initial Calibration Summary
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 03/14/2006GCG
Instrument ID: GCG
Mean RSD: 26.50

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
Motor Oil (C24-C36)	TRG	Linear	r	0.998		0.995
TPH-DIESEL (C10-C24)	TRG	Linear	r	0.997		0.995
Triacontane	SUR	AverageRF	% RSD	7.2		20
Octacosane	SUR	AverageRF	% RSD	6.7		20

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
Date Analyzed: 03/14/2006

Second Source Calibration Verification
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 03/14/2006GCG
Instrument ID: GCG
File ID: G0314008

Column: DB-5

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Motor Oil (C24-C36)	1.000	1.040	14240	13597	NA	3.9	+/- 15.0	Linear	
TPH-DIESEL (C10-C24)	1.000	0.975	28916	22685	NA	-2.5	+/- 15.0	Linear	
Triacontane	0.250	0.256	18618	19109	2.6	NA	+/- 15.0	AverageRF	
Octacosane	0.250	0.257	19188	19752	2.9	NA	+/- 15.0	AverageRF	

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
Date Analyzed: 04/14/2006

Continuing Calibration Verification Summary
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 03/14/2006GCG
Instrument ID: GCG
File ID: G0413012

Column: DB-5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Motor Oil (C24-C36)	1.000	0.936	14240	12295	NA	-6.3	+/- 15.0	Linear	
TPH-DIESEL (C10-C24)	1.000	1.079	28916	24895	NA	7.9	+/- 15.0	Linear	
Triacontane	0.250	0.257	18618	19164	2.9	NA	+/- 15.0	AverageRF	
Octacosane	0.250	0.252	19188	19342	0.8	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
Date Analyzed: 04/14/2006

Continuing Calibration Verification Summary
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 03/14/2006GCG
Instrument ID: GCG
File ID: G0413021

Column: DB-5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Motor Oil (C24-C36)	2.500	2.351	14240	12072	NA	-5.9	+/- 15.0	Linear	
TPH-DIESEL (C10-C24)	2.500	2.966	28916	26053	NA	18.6	+/- 15.0	Linear	*
Triacontane	0.300	0.328	18618	20326	9.2	NA	+/- 15.0	AverageRF	
Octacosane	0.300	0.323	19188	20637	7.6	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027

Analysis Run Log
Diesel Range Organics / Motor Oil Range Organics

Analysis Method: SW8015

Instrument ID: GCG
Column: DB-5

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
G0314002	DSTD1	DSTD1	03/14/2006	17:33		03/14/2006	18:02
G0314003	DSTD2	DSTD2	03/14/2006	18:18		03/14/2006	18:47
G0314004	DSTD3	DSTD3	03/14/2006	19:03		03/14/2006	19:32
G0314005	DSTD4	DSTD4	03/14/2006	19:48		03/14/2006	20:17
G0314006	DSTD5	DSTD5	03/14/2006	20:32		03/14/2006	21:01
G0314007	DSTD6	DSTD6	03/14/2006	21:18		03/14/2006	21:47
G0314008	QCALT	QCALT	03/14/2006	22:02		03/14/2006	22:31
G0413012	DSTD3	DSTD3	04/14/2006	02:42		04/14/2006	03:11
G0413014	Method Blank	DWB10316	04/14/2006	04:12		04/14/2006	04:41
G0413015	Laboratory Control Sample	DWB10316LCS	04/14/2006	04:57		04/14/2006	05:26
G0413016	Laboratory Control Sample Duplicate	DWB10316LCSD	04/14/2006	05:42		04/14/2006	06:11
G0413017	950GW108CL	D0600027-001	04/14/2006	06:27		04/14/2006	06:56
G0413018	1260GW102CL	D0600027-002	04/14/2006	07:12		04/14/2006	07:41
G0413021	DSTD4	DSTD4	04/14/2006	09:28		04/14/2006	09:57

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Extracted: 03/16/2006

Extraction Prep Log
Diesel Range Organics / Motor Oil Range Organics

Extaction Method: SW3510
Analysis Method: SW8015

Extraction Lot: DWB10316
Level:

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	DWB10316	NA	NA	1.000 L	1	NA	
Laboratory Control Sample	DWB10316LCS	NA	NA	1.000 L	1	NA	
Laboratory Control Sample Duplicate	DWB10316LCSD	NA	NA	1.000 L	1	NA	
950GW108CL	D0600027-001	03/09/2006	03/11/2006	1.000 L	1	NA	
1260GW102CL	D0600027-002	03/09/2006	03/11/2006	1.000 L	1	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027

Holding Time Summary
Diesel Range Organics / Motor Oil Range Organics

Analysis Method: SW8015

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
950GW108CL	03/09/2006	03/11/2006	03/16/2006	7	7	N/A	N/A	N/A	04/14/2006	40	29	
1260GW102CL	03/09/2006	03/11/2006	03/16/2006	7	7	N/A	N/A	N/A	04/14/2006	40	29	

Comments:

SUPPORT DOCUMENTATION

Method Detection Limit Study

Columbia Analytical Services
Redding, CA

Analysis Method:	SW8015	**Analyst:**	A. Bell
Extraction Method:	SW3510	**Instrument:**	GCG
Matrix:	WATER	**Description:**	
MDL Effective Date:	10/8/2005	**Department:**	GS

#	Compound	CAS No.	Date	MDL		MG/L	1	2	3	4	5	6	7	8	Mean	Std Dev	MDL Check	True Value	%Rec
1	Diesel (C10-C20)	PHCC10C20	10/5/2005	0.020		0.1	0.063	0.051	0.061	0.068	0.071	0.065	0.068	0.071	0.065	0.01			#DIV/0!
2	TPH-Motor Oil	MOIL	10/5/2005	0.024		0.1	0.120	0.109	0.118	0.118	0.130	0.125	0.132	0.131	0.123	0.01			#DIV/0!
3	***	***		0.00	*										0.000	0.00			#DIV/0!
4	***	***		0.00	*										0.000	0.00			#DIV/0!
5	***	***		0.00	*										0.000	0.00			#DIV/0!
6	***	***		0.00	*										0.000	0.00			#DIV/0!
7	***	***		0.00	*										0.000	0.00			#DIV/0!

Separatory Funnel Extraction, 3510C

Total Fuel Hydrocarbon Water

Date	3/16/06
Time	12:00

Date sampled	

Batches: L0600459, D0600029, D0600027, DH013, DH018

Client(s): MWH Labs, Transwest Geochem, Treadwell & Fabb, Kunsan AB, Tec/Hickam AFB

Analytical Method(s)

- [x] TFHD, 8015B
- [ ] DRO by 3520C
- [ ] DRAX, AK102.0
- [x] Other DMO

Solvent Lots

DCM: 45348 3/16/06 3/16/06

Spikes

Surrogate: 13-EXS-8916-1 Amt. .0 ml Exp: 4-24-06

Spike: 13-EXS-9/C-1 Amt. 1.0 ml Exp: 6-15-06

Spiked by: OmC Witness: OLG

Test Code(s): 8015/DMO

Sample ID	Surrogate X	Spike 1 X	Amt (1L) By: OMC 3/16/06	Final KD H2O bath temp 81 °C Date & Volume By: MMP 3/22/06	Reling. Date By: MMP 3/22/06	
DWB1	X		1.0	1.0 ml		
DWB2						OMC 3/16/06
DWL1 8015	X	X	1.0			
DWL2 8015	X	X	1.0			
L-3 DSL	X	X	1.0			
L-4 DSL	X	X	1.0			
L0600459-1 .01	X		0.86			8015
-4 .01	X		0.42			
D0600029-1 .01	X		0.99			8015
-2 .01	X		0.99			
-3 .01	X		0.99			
-4 .01	X		0.98			
-5 .01	X		0.99			
D0600027-1 .01	X		1.05			DMO
-2 .01	X		1.05			
DH013-10 A	X		100 ml			8015
-11 A	X					
-12 A	X					
-13 A	X					
-14 A	X					
-15 A	X					
-16 A	X					
-17 A	X					
-18 A	X					
DH018-1 P	X		1.0			
-2 P	X		1.0			
-3 P	X		1.0			

Comments:

* DH013: limited sample provided - used 100 ml sample + 900 ml DI water
* 459-4: Sample limited added 600 ml DI water

DMO spike: 13-EXS-78-C use 0.25 ml Exp: 4-23-06

[ ] Completed ms/msd

[x] Sample limited, no ms/msd, duplicate LCS

066

Peer Review By:

Organic Extractions Dept.
CAS-Redding

Columbia Analytical Services, Inc.

HP6890 Injection Log

Instrument ID:
GCG

Date(s)
3/14/06

Analytical Method(s)	
☒ 8015B(MOD)	☐ 8015AZ
☐ OA2	☐ TX1005
☐ AK102/103	☐ Other_____

I-Cal Date(s)	3/14/06

Standard(s)	
A	
B	
C	

Analyst(s)	CYC

Target Method(s)	
A	GPSL061308
B	GBM0060314 LOW
C	

Target Method	Data Directory	Filename	Sample ID	Matrix	DL Factor	STD	Run OK? Y/N	Rept? Y/N	Comments
A	FG060313	G0313008	DG9665103						
		9	4						
		10	DWB10316						
		11	LCS						
		12	LCSD						
		G0313013	DG9645001						
		14	WASH						
		15	↓						
		16	DSTD4						
		17	STOPPED						
		18	↓						
B	FG060314	G0314001	RT Marker						
		2	DSTD1						
		3	2						
		4	3						
		5	4						
		6	5						
		7	6						
		8	QCALT						
B	FG060315	G0315001	RT Marker						
		2	DSTD 3				No.	No.	22-GC-29D
		3	↓				↓	↓	↓
		4							
		5	WASH						
		6	↓						
		7	↓						
		8	DSTD 3					No.	22-GC-32C

CYC

Columbia Analytical Services, Inc.

HP6890 Injection Log

Instrument ID:
GCG

Date(s)
4/13/06

Analytical Method(s)	
✓ 8015B(MOD)	8015AZ
OA2	TX1005
AK102/103	Other_____

I-Cal Date(s)	(DSD) 3/8/06; (RAD) 3/14/06

Standard(s)	
A	22-GC-39A
B	-39B
C	22-GC-39C
D	-39D

Analyst(s)	CYC/MSF

Target Method(s)	
A	GDSL
B	GDMO060314Low.
C	

Target Method	Data Directory	Filename	Sample ID	Matrix	DL Factor	STD	Run OK? Y/N	Rept? Y/N	Comments
	FG060413	G0413001	RT Marker	STD					
		002	DSTD3			A	Y	Y	
		003	DSTD3			A	—	—	Not needed
		004	D0600068-001	SO	~~50x~~ 1x				
		005	DH041003	SO	~~1x~~ 50x				surr dil out
		006	WASH	—					
		007		—					
		008	DSTD4	STD		B	N	Y	Surr ↑, ok
		009	DSTD4	STD		B	N	N	" "
		010	WASH	—					
		011		—					
B		012	DSTD3	STD	1x	C	Y	Y	
		013	DSTD3	STD		C	—	—	(not needed)
		014	DWB10316	WA			Y	Y	
		015	DWB10316LCD						
		016	LCD						
		017	D0600027-001						
		018	-002						
		019	WASH	—			—	—	
		020		—			—	—	
		021	DSTD4	STD		D	N	Y	DSL ↑,
		022	DSTD4	STD		D	N	Y	DSL ↑

MBr 4/13/06

TPH-Gasoline

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Collected: 03/09/2006
Date Received: 03/11/2006

Gasoline Range Organics

Sample Name: 950GW108CL
Lab Code: D0600027-001
Extraction SW5030
Analysis Method: SW8015

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
TPH-Gasoline (C7C12)	ND	U	50	1	03/17/2006	03/17/2006	NWB10317	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Chlorobenzene	92	65-135	03/17/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Collected: 03/09/2006
Date Received: 03/11/2006

Gasoline Range Organics

Sample Name: 1260GW102CL
Lab Code: D0600027-002
Extraction SW5030
Analysis Method: SW8015

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
TPH-Gasoline (C7C12)	ND	U	50	1	03/17/2006	03/17/2006	NWB10317	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Chlorobenzene	91	65-135	03/17/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Collected: NA
Date Received: NA

Gasoline Range Organics

Sample Name: Method Blank
Lab Code: NWB10317
Extraction SW5030
Analysis Method: SW8015

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
TPH-Gasoline (C7C12)	ND	U	50	1	03/17/2006	03/17/2006	NWB10317	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Chlorobenzene	91	65-135	03/17/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027

Surrogate Recovery Summary
Gasoline Range Organics

Prep Method: SW5030
Analysis Method: SW8015

Units: Percent

Sample Name	Lab Code	Q	S1
Laboratory Control Sample	NWB10317LCS		93
Laboratory Control Sample Duplicate	NWB10317LCSD		97
Method Blank	NWB10317		91
950GW108CL	D0600027-001		92
1260GW102CL	D0600027-002		91

Surrogate Recovery Control Limits (%)

S1: Chlorobenzene 65-135

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	Treadwell and Rollo,	**Service Request:**	D0600027
Project:	Presidio	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	03/17/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Gasoline Range Organics

LCS Sample	Lab Control Sample	**DMS Sample**	Lab Control Sample Duplicate
Lab Code:	NWB10317LCS	**Units:**	ug/L (ppb)
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
TPH-Gasoline (C7C12)	SW5030	SW8015	50	2000	2080	2050	104	102	75-125	1	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Extracted: 03/17/2006
Date Analyzed: 03/17/2006
Time Analyzed: 12:48

Method Blank Summary
Gasoline Range Organics

Extaction Method: SW5030
Analysis Method: SW8015

Extraction Lot: NWB10317
Level:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	NWB10317LCS	NF031708P	03/17/2006	11:58
Laboratory Control Sample Duplicate	NWB10317LCSD	NF031709P	03/17/2006	12:23
950GW108CL	D0600027-001	NF031720	03/17/2006	16:59
1260GW102CL	D0600027-002	NF031721	03/17/2006	17:24

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
ICAL Date: 03/17/2006

Initial Calibration Summary
Gasoline Range Organics

ICAL ID: 03/17/2006GCN
Instrument ID: GCN

Column: RTX-1, FID

Level ID	File ID
A	NF031702
B	NF031703
C	NF031704
D	NF031705
E	NF031706

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
TPH-Gasoline (C7C12)	A	50.00	0.405	B	500.0	0.382	C	2000	0.415	D	3000	0.423	E	5000	0.420
Chlorobenzene-ss	A	2.500	0.173	B	25.00	0.138	C	100.0	0.146	D	150.0	0.146	E	250.0	0.151

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
ICAL Date: 03/17/2006

Initial Calibration Summary
Gasoline Range Organics

ICAL ID: 03/17/2006GCN
Instrument ID: GCN
Mean RSD: 4.00

Column: RTX-1, FID

Calibration Evaluation

Analyte Name	Compound Type	Fit Type	Eval.	Eval. Result	Q	Control Criteria
TPH-Gasoline (C7C12)	TRG	AverageRF	% RSD	4.0		20
Chlorobenzene-ss	SUR	AverageRF	% RSD	8.8		20

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
Date Analyzed: 03/17/2006

Second Source Calibration Verification
Gasoline Range Organics

ICAL ID: 03/17/2006GCN
Instrument ID: GCN
File ID: NF031707

Column: RTX-1, FID

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
TPH-Gasoline (C7C12)	2000	1962	0.409	0.401	-1.9	NA	+/- 15.0	AverageRF	
Chlorobenzene-ss	N/A	N/A	0.151	0.147	0.0	NA	N/A	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,.
Project: Presidio

Service Request: D0600027
Date Analyzed: 03/17/2006

Continuing Calibration Verification Summary
Gasoline Range Organics

ICAL ID: **03/17/2006GCN**
Instrument ID: **GCN**
File ID: **NF031716**

Column: RTX-1, FID

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
TPH-Gasoline (C7C12)	2000	2123	0.409	0.434	6.1	NA	+/- 15.0	AverageRF	
Chlorobenzene-ss	100.0	95.56	0.151	0.144	-4.4	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
Date Analyzed: 03/17/2006

Continuing Calibration Verification Summary
Gasoline Range Organics

ICAL ID: **03/17/2006GCN**
Instrument ID: **GCN**
File ID: **NF031722**

Column: RTX-1, FID

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
TPH-Gasoline (C7C12)	3000	3093	0.409	0.421	3.1	NA	+/- 15.0	AverageRF	
Chlorobenzene-ss	150.0	148.7	0.151	0.150	-0.8	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027

Analysis Run Log
Gasoline Range Organics

Analysis Method: SW8015

Instrument ID: GCN
Column: RTX-1, FID

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
NF031702	GSTD1	GSTD1	03/17/2006	09:22		03/17/2006	09:42
NF031703	GSTD2	GSTD2	03/17/2006	09:47		03/17/2006	10:07
NF031704	GSTD3	GSTD3	03/17/2006	10:12		03/17/2006	10:32
NF031705	GSTD4	GSTD4	03/17/2006	10:37		03/17/2006	10:57
NF031706	GSTD5	GSTD5	03/17/2006	11:02		03/17/2006	11:22
NF031707	QCALTSTD	QCALTSTD	03/17/2006	11:27		03/17/2006	11:47
NF031708	Laboratory Control Sample	NWB10317LCS	03/17/2006	11:58		03/17/2006	12:18
NF031709	Laboratory Control Sample Duplicate	NWB10317LCSD	03/17/2006	12:23		03/17/2006	12:43
NF031710	Method Blank	NWB10317	03/17/2006	12:48		03/17/2006	13:08
NF031716	GSTD3	GSTD3	03/17/2006	15:18		03/17/2006	15:38
NF031720	950GW108CL	D0600027-001	03/17/2006	16:59		03/17/2006	17:19
NF031721	1260GW102CL	D0600027-002	03/17/2006	17:24		03/17/2006	17:44
NF031722	GSTD4	GSTD4	03/17/2006	17:49		03/17/2006	18:09

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Extracted: 03/17/2006

Extraction Prep Log
Gasoline Range Organics

Extaction Method: SW5030
Analysis Method: SW8015

Extraction Lot: NWB10317
Level:

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	NWB10317	NA	NA	5.000 ML	5.000	NA	
Laboratory Control Sample	NWB10317LCS	NA	NA	5.000 ML	5.000	NA	
Laboratory Control Sample Duplicate	NWB10317LCSD	NA	NA	5.000 ML	5.000	NA	
950GW108CL	D0600027-001	03/09/2006	03/11/2006	5.000 ML	5.000	NA	
1260GW102CL	D0600027-002	03/09/2006	03/11/2006	5.000 ML	5.000	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027

Holding Time Summary
Gasoline Range Organics

Analysis Method: SW8015

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
950GW108CL	03/09/2006	03/11/2006	N/A	N/A	N/A	N/A	N/A	N/A	03/17/2006	14	8	
1260GW102CL	03/09/2006	03/11/2006	N/A	N/A	N/A	N/A	N/A	N/A	03/17/2006	14	8	

Comments:

SUPPORT DOCUMENTATION

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: SW8015 Matrix: Water

Instrument ID: GCN

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
Petroleum Hydrocarbons C7-C12	05/11/2005	50.00	49.90	49.42	57.96	45.41	60.08	61.85	45.56	62.84	7.3	22

Columbia Analytical Services - Redding

Date
03/17/06

RT Marker Std Prep #3 luft 65C
Internal Standard Std Prep #3 luft —
Surrogate Std Prep #3 luft 57C

Std A Prep #3 luft 65D
Std B Prep #3 luft 65E
Std C Prep #3 luft —
Std D Prep #3 luft —

Analyst: B
ICAL Date: 03/17/06
Method: SW8015

3/21/06

Filename	Laboratory ID	Vial	Matrix	pH	Weight (Grams)	%M	DL Factor	STD	Gas Run OK?	Gas Rept?	A1 Run OK?	A2 Run OK?	Aromatic Rept?	Comments
NF031701	RTMARKER	—	—	—	—	—	—		✓	✓				
2	GSTD1	—	—	—	—	—	—	A	✓	✓				
3	GSTD2	—	—	—	—	—	—	A	✓	✓				
4	GSTD3	—	—	—	—	—	—	A	✓	✓				
5	GSTD4	—	—	—	—	—	—	A	✓	✓				
6	GSTD5	—	—	—	—	—	—	A	✓	✓				
7	QCALTSTD	—	—	—	—	—	—	B	✓	✓				
8	NWB10317LCS	—	W	—	—	—	1X	B	✓	✓				
9	NWB10317LCSD	—	↓	—	—	—	↓	B	✓	✓				
10	NWB10317BLK	—	↓	—	—	—	↓		✓	✓				
11	DH005001	D	↓	<2	—	—	↓		✓	✓				Presidio
12	2	C	↓	↓	—	—	↓		✓	✓				
13	3	C	↓	↓	—	—	↓		✓	✓				
14	5	D	↓	↓	—	—	↓		✓	✓				
15	6	C	↓	↓	—	—	↓		✓	✓				
16	GSTD3	—	—	—	—	—	—	A	✓	✓				
17	DH009002	D	W	<2	—	—	1X		✓	✓				
18	3	A	↓	↓	—	—	↓		✓	✓				
19	4	D	↓	↓	—	—	↓		✓	✓				
20	D0600027-001	04	↓	↓	—	—	↓		✓	✓				
21	-002	01	↓	↓	—	—	↓		✓	✓				
22	GSTD4	—	—	—	—	—	—	A	✓	✓				
23	L0600448-001	01	W	<2	—	—	1X		✓	✓				C6C10STD
24	-002	↓	↓	↓	—	—	↓		✓	✓				
25	-003	↓	↓	↓	—	—	↓		✓	✓				
26	-004	↓	↓	↓	—	—	↓		✓	✓				
27	-005	↓	↓	↓	—	—	↓		✓	✓				
28	-006	↓	↓	↓	—	—	↓		✓	✓				

GC/MS VOLATILE ORGANICS

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Collected: 03/09/2006
Date Received: 03/11/2006

Volatile Organic Compounds

Sample Name: 950GW108CL
Lab Code: D0600027-001

Units: ug/L (ppb)
Basis: NA

Extraction SW5030
Analysis Method: SW8260

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	1	03/16/2006	03/16/2006	U0316W01	
Vinyl chloride	**5.8**		0.50	1	03/16/2006	03/16/2006	U0316W01	
Bromomethane	ND	U	1.0	1	03/16/2006	03/16/2006	U0316W01	
Chloroethane	ND	U	1.0	1	03/16/2006	03/16/2006	U0316W01	
1,1-Dichloroethene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Acetone	ND	U	10	1	03/16/2006	03/16/2006	U0316W01	
Carbon disulfide	ND	U	5.0	1	03/16/2006	03/16/2006	U0316W01	
Methylene chloride	ND	U	4.5	1	03/16/2006	03/16/2006	U0316W01	
Tert-butylmethylether	ND	U	2.0	1	03/16/2006	03/16/2006	U0316W01	
1,1-Dichloroethane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Vinyl acetate	ND	U	10	1	03/16/2006	03/16/2006	U0316W01	
2-Butanone	ND	U	10	1	03/16/2006	03/16/2006	U0316W01	
Chloroform	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
1,1,1-Trichloroethane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Carbon tetrachloride	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Benzene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
1,2-Dichloroethane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Trichloroethene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
1,2-Dichloropropane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Bromodichloromethane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
cis-1,3-Dichloropropene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
4-methyl-2-pentanone	ND	U	10	1	03/16/2006	03/16/2006	U0316W01	
Toluene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
trans-1,3-Dichloropropene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
1,1,2-Trichloroethane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Tetrachloroethene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
2-Hexanone	ND	U	10	1	03/16/2006	03/16/2006	U0316W01	
Dibromochloromethane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Chlorobenzene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Ethylbenzene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Xylene (total)	ND	U	1.0	1	03/16/2006	03/16/2006	U0316W01	
Styrene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Bromoform	ND	U	1.0	1	03/16/2006	03/16/2006	U0316W01	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
1,3-Dichlorobenzene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
1,4-Dichlorobenzene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
1,2-Dichlorobenzene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client:	Treadwell and Rollo,	**Service Request:**	D0600027
Project:	Presidio	**Date Collected:**	03/09/2006
Sample Matrix:	Water	**Date Received:**	03/11/2006

Volatile Organic Compounds

Sample Name:	950GW108CL		
Lab Code:	D0600027-001	**Units:**	ug/L (ppb)
Extraction	SW5030	**Basis:**	NA
Analysis Method:	SW8260		

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	108	76-114	03/16/2006	
1,4-Bromofluorobenzene - SS	102	86-115	03/16/2006	
Toluene-d8 - SS	102	88-110	03/16/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Collected: 03/09/2006
Date Received: 03/11/2006

Volatile Organic Compounds

Sample Name: 950GW108CLDL
Lab Code: D0600027-001DL
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
trans-1,2-Dichloroethene	**95**	D	10	20	03/18/2006	03/18/2006	U0317W02	
cis-1,2-Dichloroethene	**190**	D	10	20	03/18/2006	03/18/2006	U0317W02	
1,2-Dichloroethene (total)	**280**	D	10	20	03/18/2006	03/18/2006	U0317W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	110	76-114	03/18/2006	
1,4-Bromofluorobenzene - SS	102	86-115	03/18/2006	
Toluene-d8 - SS	99	88-110	03/18/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Collected: 03/09/2006
Date Received: 03/11/2006

Volatile Organic Compounds

Sample Name: TB0309063A
Lab Code: D0600027-003

Units: ug/L (ppb)
Basis: NA

Extraction SW5030
Analysis Method: SW8260

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	1	03/16/2006	03/16/2006	U0316W01	
Vinyl chloride	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Bromomethane	ND	U	1.0	1	03/16/2006	03/16/2006	U0316W01	
Chloroethane	ND	U	1.0	1	03/16/2006	03/16/2006	U0316W01	
1,1-Dichloroethene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Acetone	ND	U	10	1	03/16/2006	03/16/2006	U0316W01	
Carbon disulfide	ND	U	5.0	1	03/16/2006	03/16/2006	U0316W01	
Methylene chloride	ND	U	4.5	1	03/16/2006	03/16/2006	U0316W01	
trans-1,2-Dichloroethene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Tert-butylmethylether	ND	U	2.0	1	03/16/2006	03/16/2006	U0316W01	
1,1-Dichloroethane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Vinyl acetate	ND	U	10	1	03/16/2006	03/16/2006	U0316W01	
cis-1,2-Dichloroethene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
1,2-Dichloroethene (total)	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
2-Butanone	ND	U	10	1	03/16/2006	03/16/2006	U0316W01	
Chloroform	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
1,1,1-Trichloroethane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Carbon tetrachloride	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Benzene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
1,2-Dichloroethane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Trichloroethene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
1,2-Dichloropropane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Bromodichloromethane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
cis-1,3-Dichloropropene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
4-methyl-2-pentanone	ND	U	10	1	03/16/2006	03/16/2006	U0316W01	
Toluene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
trans-1,3-Dichloropropene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
1,1,2-Trichloroethane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Tetrachloroethene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
2-Hexanone	ND	U	10	1	03/16/2006	03/16/2006	U0316W01	
Dibromochloromethane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Chlorobenzene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Ethylbenzene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Xylene (total)	ND	U	1.0	1	03/16/2006	03/16/2006	U0316W01	
Styrene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Bromoform	ND	U	1.0	1	03/16/2006	03/16/2006	U0316W01	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Collected: 03/09/2006
Date Received: 03/11/2006

Volatile Organic Compounds

Sample Name: TB0309063A
Lab Code: D0600027-003
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichlorobenzene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
1,4-Dichlorobenzene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
1,2-Dichlorobenzene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	108	76-114	03/16/2006	
1,4-Bromofluorobenzene - SS	101	86-115	03/16/2006	
Toluene-d8 - SS	100	88-110	03/16/2006	

Comments: _____

QC Summary

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: U0316W01

Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	1	03/16/2006	03/16/2006	U0316W01	
Vinyl chloride	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Bromomethane	ND	U	1.0	1	03/16/2006	03/16/2006	U0316W01	
Chloroethane	ND	U	1.0	1	03/16/2006	03/16/2006	U0316W01	
1,1-Dichloroethene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Acetone	ND	U	10	1	03/16/2006	03/16/2006	U0316W01	
Carbon disulfide	ND	U	5.0	1	03/16/2006	03/16/2006	U0316W01	
Methylene chloride	ND	U	4.5	1	03/16/2006	03/16/2006	U0316W01	
trans-1,2-Dichloroethene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Tert-butylmethylether	ND	U	2.0	1	03/16/2006	03/16/2006	U0316W01	
1,1-Dichloroethane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Vinyl acetate	ND	U	10	1	03/16/2006	03/16/2006	U0316W01	
cis-1,2-Dichloroethene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
1,2-Dichloroethene (total)	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
2-Butanone	ND	U	10	1	03/16/2006	03/16/2006	U0316W01	
Chloroform	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
1,1,1-Trichloroethane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Carbon tetrachloride	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Benzene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
1,2-Dichloroethane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Trichloroethene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
1,2-Dichloropropane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Bromodichloromethane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
cis-1,3-Dichloropropene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
4-methyl-2-pentanone	ND	U	10	1	03/16/2006	03/16/2006	U0316W01	
Toluene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
trans-1,3-Dichloropropene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
1,1,2-Trichloroethane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Tetrachloroethene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
2-Hexanone	ND	U	10	1	03/16/2006	03/16/2006	U0316W01	
Dibromochloromethane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Chlorobenzene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Ethylbenzene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Xylene (total)	ND	U	1.0	1	03/16/2006	03/16/2006	U0316W01	
Styrene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Bromoform	ND	U	1.0	1	03/16/2006	03/16/2006	U0316W01	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: U0316W01
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichlorobenzene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
1,4-Dichlorobenzene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
1,2-Dichlorobenzene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	103	76-114	03/16/2006	
1,4-Bromofluorobenzene - SS	101	86-115	03/16/2006	
Toluene-d8 - SS	99	88-110	03/16/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: U0317W02

Units: ug/L (ppb)
Basis: NA

Extraction SW5030
Analysis Method: SW8260

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	1	03/18/2006	03/18/2006	U0317W02	
Vinyl chloride	ND	U	0.50	1	03/18/2006	03/18/2006	U0317W02	
Bromomethane	ND	U	1.0	1	03/18/2006	03/18/2006	U0317W02	
Chloroethane	ND	U	1.0	1	03/18/2006	03/18/2006	U0317W02	
1,1-Dichloroethene	ND	U	0.50	1	03/18/2006	03/18/2006	U0317W02	
Acetone	ND	U	10	1	03/18/2006	03/18/2006	U0317W02	
Carbon disulfide	ND	U	5.0	1	03/18/2006	03/18/2006	U0317W02	
Methylene chloride	ND	U	4.5	1	03/18/2006	03/18/2006	U0317W02	
trans-1,2-Dichloroethene	ND	U	0.50	1	03/18/2006	03/18/2006	U0317W02	
Tert-butylmethylether	ND	U	2.0	1	03/18/2006	03/18/2006	U0317W02	
1,1-Dichloroethane	ND	U	0.50	1	03/18/2006	03/18/2006	U0317W02	
Vinyl acetate	ND	U	10	1	03/18/2006	03/18/2006	U0317W02	
cis-1,2-Dichloroethene	ND	U	0.50	1	03/18/2006	03/18/2006	U0317W02	
1,2-Dichloroethene (total)	ND	U	0.50	1	03/18/2006	03/18/2006	U0317W02	
2-Butanone	ND	U	10	1	03/18/2006	03/18/2006	U0317W02	
Chloroform	ND	U	0.50	1	03/18/2006	03/18/2006	U0317W02	
1,1,1-Trichloroethane	ND	U	0.50	1	03/18/2006	03/18/2006	U0317W02	
Carbon tetrachloride	ND	U	0.50	1	03/18/2006	03/18/2006	U0317W02	
Benzene	ND	U	0.50	1	03/18/2006	03/18/2006	U0317W02	
1,2-Dichloroethane	ND	U	0.50	1	03/18/2006	03/18/2006	U0317W02	
Trichloroethene	ND	U	0.50	1	03/18/2006	03/18/2006	U0317W02	
1,2-Dichloropropane	ND	U	0.50	1	03/18/2006	03/18/2006	U0317W02	
Bromodichloromethane	ND	U	0.50	1	03/18/2006	03/18/2006	U0317W02	
cis-1,3-Dichloropropene	ND	U	0.50	1	03/18/2006	03/18/2006	U0317W02	
4-methyl-2-pentanone	ND	U	10	1	03/18/2006	03/18/2006	U0317W02	
Toluene	ND	U	0.50	1	03/18/2006	03/18/2006	U0317W02	
trans-1,3-Dichloropropene	ND	U	0.50	1	03/18/2006	03/18/2006	U0317W02	
1,1,2-Trichloroethane	ND	U	0.50	1	03/18/2006	03/18/2006	U0317W02	
Tetrachloroethene	ND	U	0.50	1	03/18/2006	03/18/2006	U0317W02	
2-Hexanone	ND	U	10	1	03/18/2006	03/18/2006	U0317W02	
Dibromochloromethane	ND	U	0.50	1	03/18/2006	03/18/2006	U0317W02	
Chlorobenzene	ND	U	0.50	1	03/18/2006	03/18/2006	U0317W02	
Ethylbenzene	ND	U	0.50	1	03/18/2006	03/18/2006	U0317W02	
Xylene (total)	ND	U	1.0	1	03/18/2006	03/18/2006	U0317W02	
Styrene	ND	U	0.50	1	03/18/2006	03/18/2006	U0317W02	
Bromoform	ND	U	1.0	1	03/18/2006	03/18/2006	U0317W02	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	03/18/2006	03/18/2006	U0317W02	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: U0317W02
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichlorobenzene	ND	U	0.50	1	03/18/2006	03/18/2006	U0317W02	
1,4-Dichlorobenzene	ND	U	0.50	1	03/18/2006	03/18/2006	U0317W02	
1,2-Dichlorobenzene	ND	U	0.50	1	03/18/2006	03/18/2006	U0317W02	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	104	76-114	03/18/2006	
1,4-Bromofluorobenzene - SS	95	86-115	03/18/2006	
Toluene-d8 - SS	94	88-110	03/18/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027

Surrogate Recovery Summary
Volatile Organic Compounds

Prep Method: SW5030
Analysis Method: SW8260

Units: Percent

Sample Name	Lab Code	Q	S1	S2	S3
Laboratory Control Sample	U0316W01LCS		98	99	98
Laboratory Control Sample Duplicate	U0316W01LCSD		100	99	100
Method Blank	U0316W01		103	101	99
950GW108CL	D0600027-001		108	102	102
TB0309063A	D0600027-003		108	101	100
Laboratory Control Sample	U0317W02LCS		97	94	96
Laboratory Control Sample Duplicate	U0317W02LCSD		96	92	96
Method Blank	U0317W02		104	95	94
950GW108CLDL	D0600027-001DL		110	102	99

Surrogate Recovery Control Limits (%)

S1:	1,2-Dichloroethane-d4 - SS	76-114
S2:	1,4-Bromofluorobenzene - SS	86-115
S3:	Toluene-d8 - SS	88-110

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
Date Analyzed: 03/16/2006
Time Analyzed: 0856

Internal Standard Area and RT Summary
Volatile Organic Compounds

File ID: U062072
Instrument ID: MSU
Analysis Method: SW8260

Analysis Lot: MSU03/16/2006

	Fluorobenzene		Chlorobenzene-d5		1,4-Dichlorobenzene-d4	
	Area	RT	Area	RT	Area	RT
Results ==>	840662	6.67	566817	10.43	260129	13.30
Upper Limit ==>	1681324	7.17	1133634	10.93	520258	13.80
Lower Limit ==>	420331	6.17	283409	9.93	130065	12.80

Associated Analyses

Laboratory Control Sample	U0316W01LCS	861918	6.67	592436	10.43	265755	13.30
Laboratory Control Sample Duplicate	U0316W01LCSD	856446	6.67	582855	10.43	265291	13.30
Method Blank	U0316W01	794812	6.67	532949	10.43	233336	13.30
950GW108CL	D0600027-001	766140	6.67	528606	10.43	237731	13.30
TB0309063A	D0600027-003	778110	6.67	540606	10.43	238900	13.30

Column used to flag values outside of QC limits with an asterisk

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
Date Analyzed: 03/17/2006
Time Analyzed: 2222

Internal Standard Area and RT Summary
Volatile Organic Compounds

File ID: U062154
Instrument ID: MSU
Analysis Method: SW8260

Analysis Lot: MSU03/17/2006

	Fluorobenzene		Chlorobenzene-d5		1,4-Dichlorobenzene-d4	
	Area	RT	Area	RT	Area	RT
Results ==>	763630	6.67	517413	10.43	238313	13.30
Upper Limit ==>	1527260	7.17	1034826	10.93	476626	13.80
Lower Limit ==>	381815	6.17	258707	9.93	119157	12.80

Associated Analyses

Laboratory Control Sample	U0317W02LCS	763621	6.67	512885	10.43	237315	13.30
Laboratory Control Sample Duplicate	U0317W02LCSD	766837	6.67	510694	10.42	238244	13.30
Method Blank	U0317W02	702146	6.67	482051	10.42	209159	13.30
950GW108CLDL	D0600027-001DL	709842	6.67	481123	10.43	208854	13.30

Column used to flag values outside of QC limits with an asterisk

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	Treadwell and Rollo,	**Service Request:**	D0600027
Project:	Presidio	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	03/16/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample	Lab Control Sample	**DMS Sample**	Lab Control Sample Duplicate
Lab Code:	U0316W01LCS	**Units:**	ug/L (ppb)
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
1,1-Dichloroethene	SW5030	SW8260	0.50	10.0	9.9	10.2	99	102	65-135	3	
Benzene	SW5030	SW8260	0.50	10.0	9.8	10.1	98	101	65-135	3	
Trichloroethene	SW5030	SW8260	0.50	10.0	10.1	10.2	101	102	65-135	1	
Toluene	SW5030	SW8260	0.50	10.0	9.7	10.0	97	100	65-135	3	
Chlorobenzene	SW5030	SW8260	0.50	10.0	9.8	10.2	98	102	65-135	4	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	Treadwell and Rollo,	**Service Request:**	D0600027
Project:	Presidio	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	03/17/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample	Lab Control Sample	**DMS Sample**	Lab Control Sample Duplicate
Lab Code:	U0317W02LCS	**Units:**	ug/L (ppb)
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
1,1-Dichloroethene	SW5030	SW8260	0.50	10.0	9.5	9.8	95	98	65-135	3	
Benzene	SW5030	SW8260	0.50	10.0	9.5	9.8	95	98	65-135	3	
Trichloroethene	SW5030	SW8260	0.50	10.0	9.5	10.1	95	101	65-135	6	
Toluene	SW5030	SW8260	0.50	10.0	9.6	9.9	96	99	65-135	3	
Chlorobenzene	SW5030	SW8260	0.50	10.0	9.8	10.1	98	101	65-135	3	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Extracted: 03/16/2006
Date Analyzed: 03/16/2006
Time Analyzed: 11:04

Method Blank Summary
Volatile Organic Compounds

Extaction Method: SW5030
Analysis Method: SW8260

Extraction Lot: U0316W01
Level:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	U0316W01LCS	U062073	03/16/2006	09:21
Laboratory Control Sample Duplicate	U0316W01LCSD	U062074	03/16/2006	09:47
950GW108CL	D0600027-001	U062083	03/16/2006	13:37
TB0309063A	D0600027-003	U062084	03/16/2006	14:02

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Extracted: 03/18/2006
Date Analyzed: 03/18/2006
Time Analyzed: 00:55

Method Blank Summary
Volatile Organic Compounds

Extaction Method: SW5030
Analysis Method: SW8260

Extraction Lot: U0317W02
Level:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	U0317W02LCS	U062155	03/17/2006	22:47
Laboratory Control Sample Duplicate	U0317W02LCSD	U062156	03/17/2006	23:13
950GW108CLDL	D0600027-001DL	U062161	03/18/2006	01:20

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
Date Analyzed: 03/15/2006
Time Analyzed: 1606

Tune Summary
Volatile Organic Compounds

File ID: U062045
Instrument ID: MSU
Column: DB-624

Analysis Method: SW8260
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	17.8	159424	PASS
75	95	30	60	45.3	405376	PASS
95	95	100	100	100.0	894144	PASS
96	95	5	9	6.7	60240	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	72.6	648704	PASS
175	174	5	9	7.4	48296	PASS
176	174	95	101	96.2	623744	PASS
177	176	5	9	6.6	41232	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
VSTD00.5	VSTD00.5	U062045	03/15/2006	1721	
VSTD001	VSTD001	U062046	03/15/2006	1746	
VSTD005	VSTD005	U062047	03/15/2006	1812	
VSTD010	VSTD010	U062048	03/15/2006	1837	
VSTD020	VSTD020	U062049	03/15/2006	1903	
VSTD040	VSTD040	U062050	03/15/2006	1928	
QCALTSTD	QCALTSTD	U062052	03/15/2006	2019	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
Date Analyzed: 03/16/2006
Time Analyzed: 0831

Tune Summary
Volatile Organic Compounds

File ID: U062072
Instrument ID: MSU
Column: DB-624

Analysis Method: SW8260
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	18.1	144064	PASS
75	95	30	60	46.0	366976	PASS
95	95	100	100	100.0	797696	PASS
96	95	5	9	6.7	53752	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	73.2	584000	PASS
175	174	5	9	7.6	44424	PASS
176	174	95	101	95.1	555392	PASS
177	176	5	9	6.6	36800	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
VSTD010	VSTD010	U062072	03/16/2006	0856	
Laboratory Control Sample	U0316W01LCS	U062073	03/16/2006	0921	
Laboratory Control Sample Duplicate	U0316W01LCSD	U062074	03/16/2006	0947	
Method Blank	U0316W01	U062077	03/16/2006	1104	
950GW108CL	D0600027-001	U062083	03/16/2006	1337	
TB0309063A	D0600027-003	U062084	03/16/2006	1402	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
Date Analyzed: 03/17/2006
Time Analyzed: 2106

Tune Summary
Volatile Organic Compounds

File ID: U062154
Instrument ID: MSU
Column: DB-624

Analysis Method: SW8260
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	18.1	302848	PASS
75	95	30	60	47.6	797504	PASS
95	95	100	100	100.0	1674240	PASS
96	95	5	9	6.3	106104	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	83.7	1400832	PASS
175	174	5	9	7.4	103224	PASS
176	174	95	101	96.1	1346560	PASS
177	176	5	9	6.5	86856	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
VSTD010	VSTD010	U062154	03/17/2006	2222	
Laboratory Control Sample	U0317W02LCS	U062155	03/17/2006	2247	
Laboratory Control Sample Duplicate	U0317W02LCSD	U062156	03/17/2006	2313	
Method Blank	U0317W02	U062160	03/18/2006	0055	
950GW108CLDL	D0600027-001DL	U062161	03/18/2006	0120	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Standards Data

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
ICAL Date: 03/15/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 03/15/2006MSU
Instrument ID: MSU

Column: DB-624

Level ID	File ID	Level ID	File ID
A	U062045	F	U062046
B	U062047		
C	U062048		
D	U062049		
E	U062050		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
* Chloromethane	A	0.500	0.292	B	5.000	0.267	C	10.00	0.250	D	20.00	0.253	E	40.00	0.247
# Vinyl chloride	A	0.500	0.212	B	5.000	0.261	C	10.00	0.247	D	20.00	0.250	E	40.00	0.254
Bromomethane	A	0.500	0.077	B	5.000	0.087	C	10.00	0.088	D	20.00	0.096	E	40.00	0.091
Chloroethane	A	0.500	0.251	B	5.000	0.196	C	10.00	0.167	D	20.00	0.162	E	40.00	0.148
# 1,1-Dichloroethene	A	0.500	0.148	B	5.000	0.158	C	10.00	0.154	D	20.00	0.158	E	40.00	0.158
Acetone	A			B	25.00	0.065	C	50.00	0.055	D	100.0	0.058	E	200.0	0.054
	F	5.000	0.088												
Carbon disulfide	A	0.500	0.462	B	5.000	0.461	C	10.00	0.445	D	20.00	0.460	E	40.00	0.467
Methylene chloride	A	0.500	0.190	B	5.000	0.181	C	10.00	0.171	D	20.00	0.175	E	40.00	0.180
trans-1,2-Dichloroethene	A	0.500	0.246	B	5.000	0.265	C	10.00	0.247	D	20.00	0.256	E	40.00	0.250
Tert-butylmethylether	A	0.500	0.675	B	5.000	0.725	C	10.00	0.701	D	20.00	0.733	E	40.00	0.710
* 1,1-Dichloroethane	A	0.500	0.424	B	5.000	0.469	C	10.00	0.449	D	20.00	0.473	E	40.00	0.468
Vinyl acetate	A	0.500	1.022	B	5.000	0.982	C	10.00	1.044	D	20.00	1.054	E	40.00	1.044
cis-1,2-Dichloroethene	A	0.500	0.245	B	5.000	0.289	C	10.00	0.278	D	20.00	0.288	E	40.00	0.286
1,2-Dichloroethene (total)	A	1.000	0.245	B	10.00	0.277	C	20.00	0.262	D	40.00	0.272	E	80.00	0.268
2-Butanone	A			B	25.00	0.113	C	50.00	0.107	D	100.0	0.113	E	200.0	0.107
	F	5.000	0.118												
# Chloroform	A	0.500	0.395	B	5.000	0.447	C	10.00	0.432	D	20.00	0.455	E	40.00	0.451
1,1,1-Trichloroethane	A	0.500	0.336	B	5.000	0.375	C	10.00	0.372	D	20.00	0.390	E	40.00	0.392

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
ICAL Date: 03/15/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 03/15/2006MSU
Instrument ID: MSU

Column: DB-624

Level ID	File ID	Level ID	File ID
A	U062045	F	U062046
B	U062047		
C	U062048		
D	U062049		
E	U062050		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Carbon tetrachloride	A	0.500	0.245	B	5.000	0.275	C	10.00	0.279	D	20.00	0.298	E	40.00	0.303
Benzene	A	0.500	0.940	B	5.000	1.065	C	10.00	1.013	D	20.00	1.054	E	40.00	1.046
1,2-Dichloroethane	A	0.500	0.316	B	5.000	0.360	C	10.00	0.344	D	20.00	0.365	E	40.00	0.356
Trichloroethene	A	0.500	0.225	B	5.000	0.275	C	10.00	0.258	D	20.00	0.275	E	40.00	0.271
# 1,2-Dichloropropane	A	0.500	0.237	B	5.000	0.276	C	10.00	0.258	D	20.00	0.271	E	40.00	0.268
Bromodichloromethane	A	0.500	0.248	B	5.000	0.295	C	10.00	0.295	D	20.00	0.316	E	40.00	0.317
cis-1,3-Dichloropropene	A	0.500	0.321	B	5.000	0.364	C	10.00	0.360	D	20.00	0.390	E	40.00	0.395
4-methyl-2-pentanone	A			B	25.00	0.238	C	50.00	0.226	D	100.0	0.240	E	200.0	0.227
	F	5.000	0.211												
# Toluene	A	0.500	1.000	B	5.000	0.996	C	10.00	0.995	D	20.00	1.037	E	40.00	1.019
trans-1,3-Dichloropropene	A	0.500	0.370	B	5.000	0.450	C	10.00	0.468	D	20.00	0.505	E	40.00	0.512
1,1,2-Trichloroethane	A	0.500	0.252	B	5.000	0.252	C	10.00	0.253	D	20.00	0.264	E	40.00	0.253
Tetrachloroethene	A	0.500	0.342	B	5.000	0.410	C	10.00	0.399	D	20.00	0.416	E	40.00	0.403
2-Hexanone	A			B	25.00	0.228	C	50.00	0.225	D	100.0	0.241	E	200.0	0.222
	F	5.000	0.208												
Dibromochloromethane	A	0.500	0.250	B	5.000	0.289	C	10.00	0.304	D	20.00	0.336	E	40.00	0.341
* Chlorobenzene	A	0.500	0.978	B	5.000	1.050	C	10.00	1.022	D	20.00	1.058	E	40.00	1.029
# Ethylbenzene	A	0.500	1.656	B	5.000	1.787	C	10.00	1.768	D	20.00	1.846	E	40.00	1.817
Xylene (total)	A	1.500	0.606	B	15.00	0.663	C	30.00	0.656	D	60.00	0.684	E	120.0	0.662

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
ICAL Date: 03/15/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 03/15/2006MSU
Instrument ID: MSU

Column: DB-624

Level ID	File ID	Level ID	File ID
A	U062045	F	U062046
B	U062047		
C	U062048		
D	U062049		
E	U062050		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Styrene	A	0.500	0.933	B	5.000	1.084	C	10.00	1.056	D	20.00	1.113	E	40.00	1.095
* Bromoform	A	0.500	0.153	B	5.000	0.189	C	10.00	0.185	D	20.00	0.205	E	40.00	0.203
* 1,1,2,2-Tetrachloroethane	A	0.500	0.783	B	5.000	0.795	C	10.00	0.804	D	20.00	0.829	E	40.00	0.795
1,3-Dichlorobenzene	A	0.500	1.602	B	5.000	1.688	C	10.00	1.641	D	20.00	1.699	E	40.00	1.668
1,4-Dichlorobenzene	A	0.500	1.527	B	5.000	1.723	C	10.00	1.673	D	20.00	1.733	E	40.00	1.722
1,2-Dichlorobenzene	A	0.500	1.490	B	5.000	1.599	C	10.00	1.534	D	20.00	1.589	E	40.00	1.567
1,2-dichloroethane-d4	A			B	5.000	0.245	C	10.00	0.248	D	20.00	0.265	E	40.00	0.264
	F	1.000	0.286												
Toluene-d8	A			B	5.000	1.191	C	10.00	1.238	D	20.00	1.335	E	40.00	1.326
	F	1.000	1.351												
Bromofluorobenzene	A			B	5.000	0.754	C	10.00	0.765	D	20.00	0.827	E	40.00	0.826
	F	1.000	0.837												

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
ICAL Date: 03/15/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 03/15/2006MSU
Instrument ID: MSU
Mean RSD: 6.38

Column: DB-624

			Calibration Evaluation					RRF Evaluation		
	Analyte Name	Compound Type	Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Miniumum RRF
*	Chloromethane	TRG	AverageRF	% RSD	7.1		15.0	0.262		0.10
#	Vinyl chloride	TRG	AverageRF	% RSD	7.7		15.0	0.245		0.01
	Bromomethane	TRG	AverageRF	% RSD	7.9		15.0	0.088		0.01
	Chloroethane	TRG	AverageRF	% RSD	22.0		15.0	0.185		0.01
#	1,1-Dichloroethene	TRG	AverageRF	% RSD	2.6		15.0	0.155		0.01
	Acetone	TRG	AverageRF	% RSD	22.3		15.0	0.064		0.01
	Carbon disulfide	TRG	AverageRF	% RSD	1.8		15.0	0.459		0.01
	Methylene chloride	TRG	AverageRF	% RSD	4.0		15.0	0.179		0.01
	trans-1,2-Dichloroethene	TRG	AverageRF	% RSD	3.2		15.0	0.253		0.01
	Tert-butylmethylether	TRG	AverageRF	% RSD	3.2		15.0	0.709		0.01
*	1,1-Dichloroethane	TRG	AverageRF	% RSD	4.5		15.0	0.457		0.10
	Vinyl acetate	TRG	AverageRF	% RSD	2.8		15.0	1.029		0.01
	cis-1,2-Dichloroethene	TRG	AverageRF	% RSD	6.7		15.0	0.277		0.01
	1,2-Dichloroethene (total)	TRG	AverageRF	% RSD	4.6		15.0	0.265		0.01
	2-Butanone	TRG	AverageRF	% RSD	4.1		15.0	0.112		0.01
#	Chloroform	TRG	AverageRF	% RSD	5.7		15.0	0.436		0.01
	1,1,1-Trichloroethane	TRG	AverageRF	% RSD	6.0		15.0	0.373		0.01
	Carbon tetrachloride	TRG	AverageRF	% RSD	8.1		15.0	0.280		0.01
	Benzene	TRG	AverageRF	% RSD	5.0		15.0	1.024		0.01
	1,2-Dichloroethane	TRG	AverageRF	% RSD	5.7		15.0	0.348		0.01
	Trichloroethene	TRG	AverageRF	% RSD	8.1		15.0	0.261		0.01
#	1,2-Dichloropropane	TRG	AverageRF	% RSD	6.0		15.0	0.262		0.01
	Bromodichloromethane	TRG	AverageRF	% RSD	9.6		15.0	0.294		0.01
	cis-1,3-Dichloropropene	TRG	AverageRF	% RSD	8.0		15.0	0.366		0.01
	4-methyl-2-pentanone	TRG	AverageRF	% RSD	5.1		15.0	0.228		0.01
#	Toluene	TRG	AverageRF	% RSD	1.8		15.0	1.009		0.01
	trans-1,3-Dichloropropene	TRG	AverageRF	% RSD	12.4		15.0	0.461		0.01
	1,1,2-Trichloroethane	TRG	AverageRF	% RSD	2.0		15.0	0.255		0.01
	Tetrachloroethene	TRG	AverageRF	% RSD	7.6		15.0	0.394		0.01
	2-Hexanone	TRG	AverageRF	% RSD	5.2		15.0	0.225		0.01
	Dibromochloromethane	TRG	AverageRF	% RSD	12.3		15.0	0.304		0.01
*	Chlorobenzene	TRG	AverageRF	% RSD	3.0		15.0	1.027		0.30
#	Ethylbenzene	TRG	AverageRF	% RSD	4.1		15.0	1.775		0.01
	Xylene (total)	TRG	AverageRF	% RSD	4.4		15.0	0.654		0.01
	Styrene	TRG	AverageRF	% RSD	6.8		15.0	1.056		0.01
*	Bromoform	TRG	AverageRF	% RSD	11.2		15.0	0.187		0.10
*	1,1,2,2-Tetrachloroethane	TRG	AverageRF	% RSD	2.2		15.0	0.801		0.30

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
ICAL Date: 03/15/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 03/15/2006MSU
Instrument ID: MSU
Mean RSD: 6.38

Column: DB-624

		Calibration Evaluation					RRF Evaluation		
Analyte Name	**Compound Type**	**Fit Type**	**Eval.**	**Eval. Result**	**Q**	**Control Criteria**	**Average RRF**	**Q**	**Miniumum RRF**
1,3-Dichlorobenzene	TRG	AverageRF	% RSD	2.3		15.0	1.660		0.01
1,4-Dichlorobenzene	TRG	AverageRF	% RSD	5.2		15.0	1.676		0.01
1,2-Dichlorobenzene	TRG	AverageRF	% RSD	2.9		15.0	1.556		0.01
1,2-dichloroethane-d4	SUR	AverageRF	% RSD	6.3		15.0	0.262		0.01
Toluene-d8	SUR	AverageRF	% RSD	5.4		15.0	1.288		0.01
Bromofluorobenzene	SUR	AverageRF	% RSD	4.9		15.0	0.802		0.01

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
Date Analyzed: 03/15/2006

Second Source Calibration Verification
Volatile Organic Compounds

ICAL ID: 03/15/2006MSU
Instrument ID: MSU
File ID: U062052

Column: DB-624

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Chloromethane	10.0	9.216	0.262	0.241	-7.8	NA	+/- 40.0	AverageRF	
Vinyl chloride	10.0	9.821	0.245	0.241	-1.8	NA	+/- 20.0	AverageRF	
Bromomethane	10.0	10.73	0.088	0.094	7.3	NA	+/- 40.0	AverageRF	
Chloroethane	10.0	8.808	0.185	0.163	-11.9	NA	+/- 40.0	AverageRF	
1,1-Dichloroethene	10.0	9.706	0.155	0.151	-2.9	NA	+/- 20.0	AverageRF	
Acetone	50.0	45.14	0.064	0.058	-9.7	NA	+/- 40.0	AverageRF	
Carbon disulfide	10.0	9.333	0.459	0.428	-6.7	NA	+/- 40.0	AverageRF	
Methylene chloride	10.0	9.523	0.179	0.171	-4.8	NA	+/- 40.0	AverageRF	
trans-1,2-Dichloroethene	10.0	9.721	0.253	0.246	-2.8	NA	+/- 40.0	AverageRF	
Tert-butylmethylether	10.0	9.895	0.709	0.702	-1.0	NA	+/- 40.0	AverageRF	
1,1-Dichloroethane	10.0	9.812	0.456	0.448	-1.9	NA	+/- 40.0	AverageRF	
Vinyl acetate	10.0	9.536	1.029	0.982	-4.6	NA	+/- 40.0	AverageRF	
cis-1,2-Dichloroethene	10.0	9.886	0.277	0.274	-1.1	NA	+/- 40.0	AverageRF	
1,2-Dichloroethene (total)	20.0	19.61	0.265	0.260	-1.9	NA	+/- 40.0	AverageRF	
2-Butanone	50.0	48.92	0.111	0.109	-2.2	NA	+/- 40.0	AverageRF	
Chloroform	10.0	9.856	0.436	0.430	-1.4	NA	+/- 20.0	AverageRF	
1,1,1-Trichloroethane	10.0	9.733	0.373	0.363	-2.7	NA	+/- 40.0	AverageRF	
Carbon tetrachloride	10.0	9.790	0.280	0.274	-2.1	NA	+/- 40.0	AverageRF	
Benzene	10.0	9.814	1.024	1.005	-1.9	NA	+/- 40.0	AverageRF	
1,2-Dichloroethane	10.0	9.929	0.348	0.346	-0.7	NA	+/- 40.0	AverageRF	
Trichloroethene	10.0	9.773	0.261	0.255	-2.3	NA	+/- 40.0	AverageRF	
1,2-Dichloropropane	10.0	9.890	0.262	0.259	-1.1	NA	+/- 20.0	AverageRF	
Bromodichloromethane	10.0	9.967	0.294	0.293	-0.3	NA	+/- 40.0	AverageRF	
cis-1,3-Dichloropropene	10.0	9.749	0.366	0.357	-2.5	NA	+/- 40.0	AverageRF	
4-methyl-2-pentanone	50.0	50.36	0.228	0.230	0.7	NA	+/- 40.0	AverageRF	
Toluene	10.0	9.807	1.010	0.990	-1.9	NA	+/- 20.0	AverageRF	
trans-1,3-Dichloropropene	10.0	9.938	0.461	0.458	-0.6	NA	+/- 40.0	AverageRF	
1,1,2-Trichloroethane	10.0	9.768	0.255	0.249	-2.3	NA	+/- 40.0	AverageRF	
Tetrachloroethene	10.0	9.890	0.394	0.390	-1.1	NA	+/- 40.0	AverageRF	
2-Hexanone	50.0	50.71	0.225	0.228	1.4	NA	+/- 40.0	AverageRF	
Dibromochloromethane	10.0	10.02	0.304	0.304	0.2	NA	+/- 40.0	AverageRF	
Chlorobenzene	10.0	9.794	1.028	1.007	-2.1	NA	+/- 40.0	AverageRF	
Ethylbenzene	10.0	9.623	1.775	1.708	-3.8	NA	+/- 20.0	AverageRF	
Xylene (total)	30.0	29.50	0.654	0.644	-1.7	NA	+/- 40.0	AverageRF	
Styrene	10.0	9.922	1.056	1.048	-0.8	NA	+/- 40.0	AverageRF	
Bromoform	10.0	9.830	0.187	0.184	-1.7	NA	+/- 40.0	AverageRF	
1,1,2,2-Tetrachloroethane	10.0	9.930	0.801	0.796	-0.7	NA	+/- 40.0	AverageRF	
1,3-Dichlorobenzene	10.0	9.714	1.660	1.612	-2.8	NA	+/- 40.0	AverageRF	
1,4-Dichlorobenzene	10.0	9.846	1.676	1.650	-1.5	NA	+/- 40.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
Date Analyzed: 03/15/2006

Second Source Calibration Verification
Volatile Organic Compounds

ICAL ID: 03/15/2006MSU
Instrument ID: MSU
File ID: U062052

Column: DB-624

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
1,2-Dichlorobenzene	10.0	9.921	1.556	1.544	-0.8	NA	+/- 40.0	AverageRF	
1,2-dichloroethane-d4	N/A	N/A	0.262	0.262	0.0	NA	+/- 40.0	AverageRF	
Toluene-d8	N/A	N/A	1.288	1.297	0.0	NA	+/- 40.0	AverageRF	
Bromofluorobenzene	N/A	N/A	0.802	0.816	0.0	NA	+/- 40.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
Date Analyzed: 03/16/2006

Continuing Calibration Verification Summary
Volatile Organic Compounds

ICAL ID: 03/15/2006MSU
Instrument ID: MSU
File ID: U062072

Column: DB-624

	Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
*	Chloromethane	10.0	9.571	0.10	0.262	0.251	-4.3	NA	+/- 40.0	AverageRF	
#	Vinyl chloride	10.0	10.14	0.01	0.245	0.248	1.4	NA	+/- 20.0	AverageRF	
	Bromomethane	10.0	10.52	0.01	0.088	0.092	5.1	NA	+/- 40.0	AverageRF	
	Chloroethane	10.0	7.701	0.01	0.185	0.142	-23.0	NA	+/- 40.0	AverageRF	
#	1,1-Dichloroethene	10.0	10.10	0.01	0.155	0.157	1.0	NA	+/- 20.0	AverageRF	
	Acetone	50.0	49.72	0.01	0.064	0.064	-0.5	NA	+/- 40.0	AverageRF	
	Carbon disulfide	10.0	10.41	0.01	0.459	0.478	4.1	NA	+/- 40.0	AverageRF	
	Methylene chloride	10.0	9.799	0.01	0.179	0.176	-2.0	NA	+/- 40.0	AverageRF	
	trans-1,2-Dichloroethene	10.0	10.24	0.01	0.253	0.259	2.4	NA	+/- 40.0	AverageRF	
	Tert-butylmethylether	10.0	9.665	0.01	0.709	0.685	-3.4	NA	+/- 40.0	AverageRF	
*	1,1-Dichloroethane	10.0	9.937	0.10	0.456	0.454	-0.6	NA	+/- 40.0	AverageRF	
	Vinyl acetate	10.0	9.956	0.01	1.029	1.025	-0.4	NA	+/- 40.0	AverageRF	
	cis-1,2-Dichloroethene	10.0	10.36	0.01	0.277	0.287	3.6	NA	+/- 40.0	AverageRF	
	1,2-Dichloroethene (total)	20.0	20.60	0.01	0.265	0.273	3.0	NA	+/- 40.0	AverageRF	
	2-Butanone	50.0	43.98	0.01	0.111	0.098	-12.0	NA	+/- 40.0	AverageRF	
#	Chloroform	10.0	10.22	0.01	0.436	0.446	2.2	NA	+/- 20.0	AverageRF	
	1,1,1-Trichloroethane	10.0	10.19	0.01	0.373	0.380	1.9	NA	+/- 40.0	AverageRF	
	Carbon tetrachloride	10.0	10.20	0.01	0.280	0.285	2.0	NA	+/- 40.0	AverageRF	
	Benzene	10.0	10.03	0.01	1.024	1.027	0.3	NA	+/- 40.0	AverageRF	
	1,2-Dichloroethane	10.0	10.39	0.01	0.348	0.362	3.9	NA	+/- 40.0	AverageRF	
	Trichloroethene	10.0	10.15	0.01	0.261	0.265	1.5	NA	+/- 40.0	AverageRF	
#	1,2-Dichloropropane	10.0	9.903	0.01	0.262	0.259	-1.0	NA	+/- 20.0	AverageRF	
	Bromodichloromethane	10.0	10.30	0.01	0.294	0.303	3.0	NA	+/- 40.0	AverageRF	
	cis-1,3-Dichloropropene	10.0	9.944	0.01	0.366	0.364	-0.6	NA	+/- 40.0	AverageRF	
	4-methyl-2-pentanone	50.0	44.45	0.01	0.228	0.203	-11.1	NA	+/- 40.0	AverageRF	
#	Toluene	10.0	9.952	0.01	1.010	1.005	-0.5	NA	+/- 20.0	AverageRF	
	trans-1,3-Dichloropropene	10.0	10.22	0.01	0.461	0.471	2.2	NA	+/- 40.0	AverageRF	
	1,1,2-Trichloroethane	10.0	9.881	0.01	0.255	0.252	-1.2	NA	+/- 40.0	AverageRF	
	Tetrachloroethene	10.0	10.54	0.01	0.394	0.415	5.4	NA	+/- 40.0	AverageRF	
	2-Hexanone	50.0	46.00	0.01	0.225	0.207	-8.0	NA	+/- 40.0	AverageRF	
	Dibromochloromethane	10.0	10.17	0.01	0.304	0.309	1.7	NA	+/- 40.0	AverageRF	
*	Chlorobenzene	10.0	10.22	0.30	1.028	1.051	2.2	NA	+/- 40.0	AverageRF	
#	Ethylbenzene	10.0	10.11	0.01	1.775	1.794	1.1	NA	+/- 20.0	AverageRF	
	Xylene (total)	30.0	30.66	0.01	0.654	0.669	2.2	NA	+/- 40.0	AverageRF	
	Styrene	10.0	10.05	0.01	1.056	1.061	0.5	NA	+/- 40.0	AverageRF	
*	Bromoform	10.0	9.207	0.10	0.187	0.172	-7.9	NA	+/- 40.0	AverageRF	
*	1,1,2,2-Tetrachloroethane	10.0	9.345	0.30	0.801	0.749	-6.5	NA	+/- 40.0	AverageRF	
	1,3-Dichlorobenzene	10.0	10.05	0.01	1.660	1.669	0.5	NA	+/- 40.0	AverageRF	
	1,4-Dichlorobenzene	10.0	10.19	0.01	1.676	1.707	1.9	NA	+/- 40.0	AverageRF	

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
Date Analyzed: 03/16/2006

Continuing Calibration Verification Summary
Volatile Organic Compounds

ICAL ID: 03/15/2006MSU
Instrument ID: MSU
File ID: U062072

Column: DB-624

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
1,2-Dichlorobenzene	10.0	10.14	0.01	1.556	1.578	1.4	NA	+/- 40.0	AverageRF	
1,2-dichloroethane-d4	10.0	10.28	0.01	0.262	0.269	2.8	NA	+/- 40.0	AverageRF	
Toluene-d8	10.0	10.42	0.01	1.288	1.342	4.2	NA	+/- 40.0	AverageRF	
Bromofluorobenzene	10.0	10.13	0.01	0.802	0.813	1.3	NA	+/- 40.0	AverageRF	

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
Date Analyzed: 03/17/2006

Continuing Calibration Verification Summary
Volatile Organic Compounds

ICAL ID: 03/15/2006MSU
Instrument ID: MSU
File ID: U062154

Column: DB-624

	Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
*	Chloromethane	10.0	8.167	0.10	0.262	0.214	-18.3	NA	+/- 40.0	AverageRF	
#	Vinyl chloride	10.0	9.259	0.01	0.245	0.227	-7.4	NA	+/- 20.0	AverageRF	
	Bromomethane	10.0	9.972	0.01	0.088	0.087	-0.3	NA	+/- 40.0	AverageRF	
	Chloroethane	10.0	7.300	0.01	0.185	0.135	-27.0	NA	+/- 40.0	AverageRF	
#	1,1-Dichloroethene	10.0	9.644	0.01	0.155	0.150	-3.6	NA	+/- 20.0	AverageRF	
	Acetone	50.0	45.58	0.01	0.064	0.058	-8.8	NA	+/- 40.0	AverageRF	
	Carbon disulfide	10.0	9.159	0.01	0.459	0.420	-8.4	NA	+/- 40.0	AverageRF	
	Methylene chloride	10.0	9.411	0.01	0.179	0.169	-5.9	NA	+/- 40.0	AverageRF	
	trans-1,2-Dichloroethene	10.0	9.936	0.01	0.253	0.251	-0.6	NA	+/- 40.0	AverageRF	
	Tert-butylmethylether	10.0	9.291	0.01	0.709	0.659	-7.1	NA	+/- 40.0	AverageRF	
*	1,1-Dichloroethane	10.0	9.767	0.10	0.456	0.446	-2.3	NA	+/- 40.0	AverageRF	
	Vinyl acetate	10.0	9.000	0.01	1.029	0.926	-10.0	NA	+/- 40.0	AverageRF	
	cis-1,2-Dichloroethene	10.0	10.11	0.01	0.277	0.280	1.1	NA	+/- 40.0	AverageRF	
	1,2-Dichloroethene (total)	N/A	N/A	0.01	0.265	0.266	0.3	NA	+/- 40.0	AverageRF	
	2-Butanone	50.0	48.07	0.01	0.111	0.107	-3.9	NA	+/- 40.0	AverageRF	
#	Chloroform	10.0	10.30	0.01	0.436	0.449	3.0	NA	+/- 20.0	AverageRF	
	1,1,1-Trichloroethane	10.0	10.00	0.01	0.373	0.373	0.0	NA	+/- 40.0	AverageRF	
	Carbon tetrachloride	10.0	10.40	0.01	0.280	0.291	4.0	NA	+/- 40.0	AverageRF	
	Benzene	10.0	9.729	0.01	1.024	0.996	-2.7	NA	+/- 40.0	AverageRF	
	1,2-Dichloroethane	10.0	10.57	0.01	0.348	0.368	5.7	NA	+/- 40.0	AverageRF	
	Trichloroethene	10.0	10.05	0.01	0.261	0.262	0.5	NA	+/- 40.0	AverageRF	
#	1,2-Dichloropropane	10.0	9.670	0.01	0.262	0.253	-3.3	NA	+/- 20.0	AverageRF	
	Bromodichloromethane	10.0	10.35	0.01	0.294	0.305	3.5	NA	+/- 40.0	AverageRF	
	cis-1,3-Dichloropropene	10.0	9.644	0.01	0.366	0.353	-3.6	NA	+/- 40.0	AverageRF	
	4-methyl-2-pentanone	50.0	47.89	0.01	0.228	0.219	-4.2	NA	+/- 40.0	AverageRF	
#	Toluene	10.0	9.762	0.01	1.010	0.986	-2.4	NA	+/- 20.0	AverageRF	
	trans-1,3-Dichloropropene	10.0	9.594	0.01	0.461	0.442	-4.1	NA	+/- 40.0	AverageRF	
	1,1,2-Trichloroethane	10.0	9.814	0.01	0.255	0.250	-1.9	NA	+/- 40.0	AverageRF	
	Tetrachloroethene	10.0	10.29	0.01	0.394	0.406	2.9	NA	+/- 40.0	AverageRF	
	2-Hexanone	50.0	48.17	0.01	0.225	0.217	-3.7	NA	+/- 40.0	AverageRF	
	Dibromochloromethane	10.0	10.75	0.01	0.304	0.327	7.5	NA	+/- 40.0	AverageRF	
*	Chlorobenzene	10.0	9.927	0.30	1.028	1.020	-0.7	NA	+/- 40.0	AverageRF	
#	Ethylbenzene	10.0	9.684	0.01	1.775	1.719	-3.2	NA	+/- 20.0	AverageRF	
	Xylene (total)	N/A	N/A	0.01	0.654	0.635	-2.9	NA	+/- 40.0	AverageRF	
	Styrene	10.0	9.778	0.01	1.056	1.033	-2.2	NA	+/- 40.0	AverageRF	
*	Bromoform	10.0	9.777	0.10	0.187	0.183	-2.2	NA	+/- 40.0	AverageRF	
*	1,1,2,2-Tetrachloroethane	10.0	9.546	0.30	0.801	0.765	-4.5	NA	+/- 40.0	AverageRF	
	1,3-Dichlorobenzene	10.0	9.696	0.01	1.660	1.609	-3.0	NA	+/- 40.0	AverageRF	
	1,4-Dichlorobenzene	10.0	9.799	0.01	1.676	1.642	-2.0	NA	+/- 40.0	AverageRF	

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
Date Analyzed: 03/17/2006

Continuing Calibration Verification Summary
Volatile Organic Compounds

ICAL ID: 03/15/2006MSU
Instrument ID: MSU
File ID: U062154

Column: DB-624

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
1,2-Dichlorobenzene	10.0	9.868	0.01	1.556	1.535	-1.3	NA	+/- 40.0	AverageRF	
1,2-dichloroethane-d4	10.0	9.827	0.01	0.262	0.257	-1.7	NA	+/- 40.0	AverageRF	
Toluene-d8	10.0	9.534	0.01	1.288	1.228	-4.7	NA	+/- 40.0	AverageRF	
Bromofluorobenzene	10.0	9.327	0.01	0.802	0.748	-6.7	NA	+/- 40.0	AverageRF	

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027

Analysis Run Log
Volatile Organic Compounds

Analysis Method: SW8260

Instrument ID: MSU
Column: DB-624

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
U062045	VSTD00.5	VSTD00.5	03/15/2006	17:21		03/15/2006	17:42
U062046	VSTD001	VSTD001	03/15/2006	17:46		03/15/2006	18:07
U062047	VSTD005	VSTD005	03/15/2006	18:12		03/15/2006	18:33
U062048	VSTD010	VSTD010	03/15/2006	18:37		03/15/2006	18:58
U062049	VSTD020	VSTD020	03/15/2006	19:03		03/15/2006	19:24
U062050	VSTD040	VSTD040	03/15/2006	19:28		03/15/2006	19:49
U062052	QCALTSTD	QCALTSTD	03/15/2006	20:19		03/15/2006	20:40
U062072	VSTD010	VSTD010	03/16/2006	08:56		03/16/2006	09:17
U062073	Laboratory Control Sample	U0316W01LCS	03/16/2006	09:21		03/16/2006	09:42
U062074	Laboratory Control Sample Duplicate	U0316W01LCSD	03/16/2006	09:47		03/16/2006	10:08
U062077	Method Blank	U0316W01	03/16/2006	11:04		03/16/2006	11:25
U062083	950GW108CL	D0600027-001	03/16/2006	13:37		03/16/2006	13:58
U062084	TB0309063A	D0600027-003	03/16/2006	14:02		03/16/2006	14:23
U062154	VSTD010	VSTD010	03/17/2006	22:22		03/17/2006	22:43
U062155	Laboratory Control Sample	U0317W02LCS	03/17/2006	22:47		03/17/2006	23:08
U062156	Laboratory Control Sample Duplicate	U0317W02LCSD	03/17/2006	23:13		03/17/2006	23:34
U062160	Method Blank	U0317W02	03/18/2006	00:55		03/18/2006	01:16
U062161	950GW108CLDL	D0600027-001DL	03/18/2006	01:20		03/18/2006	01:41

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Extracted: 03/16/2006

Extraction Prep Log
Volatile Organic Compounds

Extaction Method: SW5030
Analysis Method: SW8260

Extraction Lot: U0316W01
Level:

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	U0316W01	NA	NA	10.00 ML	10.00	NA	
Laboratory Control Sample	U0316W01LCS	NA	NA	10.00 ML	10.00	NA	
Laboratory Control Sample Duplicate	U0316W01LCSD	NA	NA	10.00 ML	10.00	NA	
950GW108CL	D0600027-001	03/09/2006	03/11/2006	10.00 ML	10.00	NA	
TB0309063A	D0600027-003	03/09/2006	03/11/2006	10.00 ML	10.00	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Extracted: 03/18/2006

Extraction Prep Log
Volatile Organic Compounds

Extaction Method: SW5030
Analysis Method: SW8260

Extraction Lot: U0317W02
Level:

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	U0317W02	NA	NA	10.00 ML	10.00	NA	
Laboratory Control Sample	U0317W02LCS	NA	NA	10.00 ML	10.00	NA	
Laboratory Control Sample Duplicate	U0317W02LCSD	NA	NA	10.00 ML	10.00	NA	
950GW108CLDL	D0600027-001DL	03/09/2006	03/11/2006	10.00 ML	10.00	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027

Holding Time Summary
Volatile Organic Compounds

Analysis Method: SW8260

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
950GW108CL	03/09/2006	03/11/2006	N/A	N/A	N/A	N/A	N/A	N/A	03/16/2006	14	7	
950GW108CLDL	03/09/2006	03/11/2006	N/A	N/A	N/A	N/A	N/A	N/A	03/18/2006	14	9	
TB0309063A	03/09/2006	03/11/2006	N/A	N/A	N/A	N/A	N/A	N/A	03/16/2006	14	7	

Comments:

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: SW8260 Matrix: Water

Instrument ID: MSU

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
ETHYLBENZENE	02/21/2006	0.50	0.394	0.464	0.492	0.466	0.345	0.491	0.471	0.440	0.052	0.16
STYRENE	02/21/2006	0.50	0.334	0.416	0.432	0.426	0.314	0.456	0.424	0.394	0.050	0.15
CIS-1,3-DICHLOROPROPENE	02/21/2006	0.50	0.359	0.409	0.387	0.427	0.304	0.445	0.400	0.403	0.044	0.13
TRANS-1,3-DICHLOROPROPE	02/21/2006	0.50	0.314	0.368	0.387	0.363	0.273	0.396	0.385	0.332	0.043	0.13
1,4-DICHLOROBENZENE	02/21/2006	0.50	0.424	0.505	0.485	0.496	0.387	0.518	0.482	0.466	0.044	0.13
1,2-DICHLOROETHANE	02/21/2006	0.50	0.398	0.478	0.525	0.491	0.364	0.504	0.533	0.453	0.060	0.18
VINYL ACETATE	02/21/2006	0.50	0.395	0.439	0.472	0.487	0.297	0.394	0.446	0.438	0.060	0.18
4-METHYL-2-PENTANONE	02/21/2006	2.50	1.914	2.002	2.102	2.132	1.755	2.160	2.050	1.964	0.13	0.40
TOLUENE	02/21/2006	0.50	0.376	0.453	0.483	0.459	0.349	0.478	0.455	0.434	0.049	0.15
CHLOROBENZENE	02/21/2006	0.50	0.404	0.494	0.486	0.485	0.371	0.502	0.509	0.460	0.050	0.15
DIBROMOCHLOROMETHANE	02/21/2006	0.50	0.406	0.436	0.445	0.441	0.340	0.459	0.424	0.411	0.037	0.11
TETRACHLOROETHENE	02/21/2006	0.50	0.411	0.492	0.486	0.479	0.345	0.517	0.465	0.434	0.055	0.17
XYLENES (TOTAL)	02/21/2006											0.11
CIS-1,2-DICHLOROETHENE	02/21/2006	0.50	0.405	0.468	0.485	0.504	0.385	0.506	0.505	0.449	0.047	0.14
TRANS-1,2-DICHLOROETHEN	02/21/2006	0.50	0.438	0.486	0.518	0.496	0.376	0.528	0.484	0.465	0.049	0.15
TERT-BUTYLMETHYLETHER	02/21/2006	0.50	0.402	0.448	0.465	0.477	0.369	0.507	0.455	0.424	0.044	0.13
1,2-DICHLOROETHENE	02/21/2006											0.14
1,3-DICHLOROBENZENE	02/21/2006	0.50	0.392	0.454	0.465	0.468	0.372	0.512	0.465	0.421	0.046	0.14
CARBON TETRACHLORIDE	02/21/2006	0.50	0.402	0.521	0.537	0.509	0.383	0.484	0.515	0.438	0.059	0.18
2-HEXANONE	02/21/2006	2.50	1.560	1.818	1.934	1.821	1.415	1.848	1.781	1.585	0.18	0.54
ACETONE	02/21/2006	2.50	3.209	3.297	3.482	3.549	3.207	3.560	3.148	2.824	0.25	0.74
CHLOROFORM	02/21/2006	0.50	0.423	0.488	0.521	0.505	0.380	0.521	0.507	0.490	0.051	0.15
BENZENE	02/21/2006	0.50	0.406	0.468	0.488	0.497	0.358	0.502	0.495	0.461	0.051	0.15
1,1,1-TRICHLOROETHANE	02/21/2006	0.50	0.425	0.485	0.499	0.510	0.364	0.504	0.515	0.450	0.053	0.16
BROMOMETHANE	02/21/2006	0.50	0.378	0.604	0.530	0.527	0.417	0.451	0.541	0.561	0.077	0.23
CHLOROMETHANE	02/21/2006	0.50	0.462	0.548	0.541	0.568	0.447	0.578	0.573	0.573	0.052	0.16
CHLOROETHANE	02/21/2006	0.50	0.454	0.522	0.552	0.503	0.377	0.542	0.570	0.510	0.062	0.19
VINYL CHLORIDE	02/21/2006	0.50	0.456	0.536	0.533	0.539	0.421	0.544	0.513	0.480	0.046	0.14
METHYLENE CHLORIDE	02/21/2006	0.50	0.458	0.480	0.509	0.528	0.442	0.575	0.512	0.522	0.042	0.13
CARBON DISULFIDE	02/21/2006	0.50	0.401	0.469	0.511	0.492	0.367	0.537	0.502	0.467	0.058	0.17
BROMOFORM	02/21/2006	0.50	0.383	0.401	0.414	0.383	0.288	0.413	0.407	0.387	0.041	0.12
BROMODICHLOROMETHANE	02/21/2006	0.50	0.420	0.462	0.474	0.471	0.358	0.487	0.498	0.464	0.045	0.14
ISOPROPYLETHER	02/21/2006	0.50	0.408	0.468	0.479	0.492	0.369	0.487	0.484	0.465	0.044	0.13
1,1-DICHLOROETHENE	02/21/2006	0.50	0.405	0.499	0.518	0.491	0.385	0.543	0.542	0.457	0.060	0.18
1,2-DICHLOROPROPANE	02/21/2006	0.50	0.392	0.463	0.467	0.485	0.366	0.507	0.470	0.460	0.048	0.14
2-BUTANONE	02/21/2006	2.50	2.128	2.365	2.395	2.524	2.134	2.396	2.294	2.166	0.15	0.44

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: SW8260 Matrix: Water

Instrument ID: MSU

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
1,1,2-TRICHLOROETHANE	02/21/2006	0.50	0.400	0.491	0.503	0.457	0.378	0.520	0.458	0.443	0.049	0.15
TRICHLOROETHENE	02/21/2006	0.50	0.372	0.511	0.507	0.517	0.396	0.568	0.525	0.444	0.069	0.21
1,1,2,2-TETRACHLOROETHAN	02/21/2006	0.50	0.405	0.460	0.465	0.446	0.358	0.439	0.454	0.437	0.035	0.11
1,2-DICHLOROBENZENE	02/21/2006	0.50	0.424	0.472	0.474	0.481	0.353	0.504	0.470	0.449	0.047	0.14

SUPPORT DOCUMENTATION

Columbia Analytical Services

GC/MS VOA Injection Log

MSU; Gummo

Date
03/15/06

Analyst: R
ICAL Date: 03/15/06
Method: SW8462260

Internal Standard Std Prep # 8MBV-95A-3
BFB / Surrogate Std Prep # 8MBV-95-2
Calibration Std Prep # 8MBV-98-1B
QCALTSTD / LCS Std Prep # 8MBV-99-1B
MS/MSD Std Prep # ↓

Time	Filename	Laboratory ID	Vial#	Matrix	pH	DL Factor	Weight (g)	M%	Run OK?	Rept?	Comments
1606	V062042	BFB	NA	WA	NA	NA	NA	NA	✓	✓	
—	43	Wash							—	—	
1655	44	VSTD00.3							✓	✓	
1721	45	VSTD00.5							✓	✓	
1746	46	VSTD001							✓	✓	
1812	47	VSTD005							✓	✓	
1837	48	VSTD010							✓	✓	
1903	49	VSTD020							✓	✓	
1928	50	VSTD040							✓	✓	
1954	51	QCALTSTD							✓	N	use 2nd
2019	52	QCALTSTD							✓	✓	
2046	53	V0315W01LCS.							✓	✓	
2111	54	V0315W01LCSD							✓	✓	
—	55	Wash							—	—	
—	56	Wash							—	—	
—	57	Wash							—	—	
2253	58	V0315W01	↓		↓	↓			✓	✓	
2318	59	DL9964-02	A		<2	200x	(20µl)		N	✓	Biopolishing, ciò @ 89 (17800)
2344	60	-02DL	A		<2	2000x	(20µl)		✓	✓	
0009	61	-03	A		<2	200x	(20µl)		N	✓	ciò @ 97 (19400)
0035	62	-03DL	A		<2	2000x	(20µl)		✓	✓	
0100	63	-04	A		<2	200x	(20µl)		N	✓	ciò @ 213 (42600); 4methyl @ 328 (65500)
0126	64	-04DL	A		<2	2000x	(20µl)		✓	✓	
0151	65	-06	A		<2	80x	(50µl)		N	✓	ciò @ 232 (18600); 4methyl @ 413 (33000)
0217	66	-06DL	A		<2	800x	(50µl)		✓	✓	
0242	67	-07	A		<2	200x	(20µl)		N	✓	ciò @ 173 (34600)
0308	68	-07DL	A		<2	2000x	(20µl)		✓	✓	
0333	69	-07DLmg	A		<2	2000x	(20µl)		✓	N	not integrated
0359	70	-07DLmsD	A	↓	<2	2000x	(20µl)	↓	✓	N	↓
											R 3/15/06

Last Analysis within 12-Hour clock? ☒ Yes ☐ No

CCV Used? ☐ #3 ☐ #4

MS/MSD present? ☒ Yes ☐ No

Columbia Analytical Services

GC/MS VOA Injection Log

MSU; Gummo

Date
03/16/06

Analyst: [illegible]
ICAL Date: 03/15/06
Method: SW8468260

Internal Standard Std Prep # 8M8V-95A-3
BFB / Surrogate Std Prep # 8M8V-95-2
Calibration Std Prep # 8M8V-98-1B
QCALTSTD / LCS Std Prep # 8M8V-99-1B
MS/MSD Std Prep # ↓

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Starlims # 48747

Time	Filename	Laboratory ID	Vial#	Matrix	pH	DL Factor	Weight (g)	M%	Run OK?	Rept?	Comments
0831	V062071	BFB	NA	WA	NA	NA	NA	NA	✓	✓	
0856	72	VSTD010							✓	✓	
0921	73	V0316W01LCS							✓	✓	
0947	74	V0316W01LCSD							✓	✓	
—	75	Wash							—	—	
—	76	Wash							—	—	
1104	77	V0316W03	↓		↓	↓			✓	✓	
1129	78	DG964-08	A		<2	80x (5ml)			N	✓	Biodistillate CB @ 37.6 (30100) + CB @ 41 (15800)
1155	79	-08DL	A		<2	800x (5ml)			N	N	↓ CB @ 45 (36200)
1220	80	DH009-04DL	B		<2	10x			✓	✓	Presidio
1246	81	DH010-01DL	B		<2	5x			✓	✓	Dolgenwoodshell
1311	82	-09DL	B		<2	10x			✓	✓	↓
1337	83	DG600027-01	01		<2	1x			N	✓	Presidio trans @ 101; CB @ 200
1402	84	-003	01		<2	1x			✓	✓	↓
1428	85	DH002-01	A		<2	1x			✓	✓	Tec/Hickam
1453	86	-02	A		<2	1x			✓	✓	
1519	87	-03	A		<2	1x			✓	✓	
1544	88	DH017-01	A		<2	1x			✓	✓	BTEX
1610	89	-02	A		<2	1x			✓	✓	↓
1636	90	DH006-01	A		<2	1x			✓	N	Rerun check Nap I 0.15
1701	91	-02	A		<2	1x			✓	✓	
1727	92	-03	A		<2	1x			✓	✓	
1752	93	-04	A		<2	1x			✓	✓	
1818	94	DH018-01	A		<2	1x			✓	✓	
1843	95	-02	A		<2	1x			N	✓	Isop @ 46; n prop @ 47; Nap @ 86
1909	96	-03	A		<2	1x			N	✓	Isop @ 51; n prop @ 52; Nap @ 101
1934	97	DG964-~~04~~ 08DL (12-3-16-16)	~~A~~ (12-3-16-16)		<2	~~1x~~ (12-3-16-16) 2000x (2ml)			✓	✓	Biodistillate Common Nap.
1959	98	DH002-01ms	A		<2	1x			✓	✓	Tec/Hickam
2015	99	-01msD	A		<2	1x			✓	✓	↓
											12-3/16/06

Last Analysis within 12-Hour clock? ☒ Yes ☐ No

CCV Used? ☒ #3 ☐ #4

MS/MSD present? ☒ Yes ☐ No

91-3

Columbia Analytical Services
GC/MS VOA Injection Log
MSU; Gummo

Date
03/17/06N

Analyst: 7
ICAL Date: 03/15/06
Method: SW8260D

Internal Standard Std Prep # 3MSV-95A-3
BFB / Surrogate Std Prep # 3MSV-95-2
Calibration Std Prep # 3MSV-98-1B
QCALTSTD / LCS Std Prep # 3MSV-99-1B
MS/MSD Std Prep # ↓

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Starting # 48841

Time	Filename	Laboratory ID	Vial#	Matrix	pH	DL Factor	Weight (g)	M%	Run OK?	Rept?	Comments
—	U062150	BFB	NA	NA	NA	NA	NA	NA	✓	N	Use 2nd
2106	51	BFB							✓	✓	
—	52	System punch							—	—	
2156	53	VSTD020							✓	N	Use 2nd
2222	54	VSTD010							✓	✓	
2247	55	U0317WQLCS							✓	✓	
2313	56	U0317WQLCSD							✓	✓	
—	57	wash							—	—	
—	58	wash							—	—	
—	59	wash							—	—	
0055	60	U0317W02							✓	✓	
0120	61	D0600527-001A	.02		<2	20x			✓	✓	Presidio
0144	62	L0600448-001DL	.05		<2	10x			✓	✓	Secor-Chapala LJ512
0211	63	-02	.05		<2	1x			✓	✓	
0237	64	-03	.05		<2	1x			✓	✓	
0312	65	-03DL	.05		<2	2x			✓	N	not needed
0328	66	D0600036-001	.01		<2	1x			✓	✓	Sandoz, Univar LJ964
0353	67	-002	.02		<2	1x			N	✓	Freon @ 74; Tet @ 94
0418	68	-003	.01		<2	1x			✓	✓	
0444	69	DG998-15	B		<2	10x			N	✓	Renco 2But @ 1080 (10800)
0509	70	-17	B		<2	1x			✓	✓	
0535	71	-19	B		<2	1x			N	✓	Acetone @ 785; 2But @ 614
0600	72	-19DL	B		<2	10x			✓	✓	
0626	73	-21	B		<2	1x			N	✓	Acetone @ 354; 2But @ 559
0651	74	-21DL	B		<2	5x			✓	✓	
0717	75	-25DL	B		<2	200x			✓	✓	
0742	76	-28	A		<2	1x			✓	✓	
0808	77	-29	A		<2	20x			N	✓	2But @ 1127 (22500)
0834	78	-29DL	A		<2	200x			✓	✓	
—	79	wash	—	—	—	—	—	—	—	—	

CCV Used? ☑ #3 ☐ #4 MS/MSD present? ~~☐ Yes~~ ☒ No (ccs/ccsd required.)

HPLC POLYNUCLEAR AROMATIC HYDROCARBONS

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Collected: 03/09/2006
Date Received: 03/11/2006

Polynuclear Aromatic Hydrocarbons

Sample Name: 1260GW102CL
Lab Code: D0600027-002
Extraction SW3520
Analysis Method: SW8310

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	ND	U	5.0	1	03/14/2006	03/25/2006	NWB10314	
Fluorene	ND	U	1.0	1	03/14/2006	03/25/2006	NWB10314	
Phenanthrene	ND	U	1.0	1	03/14/2006	03/25/2006	NWB10314	
Anthracene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Fluoranthene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Pyrene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Benzo(a)anthracene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Chrysene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Benzo(b)fluoranthene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Benzo(k)fluoranthene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Benzo(a)pyrene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Dibenzo(a,h)anthracene	ND	U	0.50	1	03/14/2006	03/25/2006	NWB10314	
Benzo(g,h,i)perylene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Indeno(1,2,3-c,d)pyrene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Acenaphthylene	ND	U	2.0	1	03/14/2006	03/25/2006	NWB10314	
Acenaphthene	ND	U	5.0	1	03/14/2006	03/25/2006	NWB10314	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Terphenyl-d14 - SS	69	65-135	03/25/2006	

Comments: _____

QC Summary

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Collected: NA
Date Received: NA

Polynuclear Aromatic Hydrocarbons

Sample Name: Method Blank
Lab Code: NWB10314
Extraction SW3520
Analysis Method: SW8310

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	ND	U	5.0	1	03/14/2006	03/25/2006	NWB10314	
Fluorene	ND	U	1.0	1	03/14/2006	03/25/2006	NWB10314	
Phenanthrene	ND	U	1.0	1	03/14/2006	03/25/2006	NWB10314	
Anthracene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Fluoranthene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Pyrene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Benzo(a)anthracene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Chrysene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Benzo(b)fluoranthene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Benzo(k)fluoranthene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Benzo(a)pyrene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Dibenzo(a,h)anthracene	ND	U	0.50	1	03/14/2006	03/25/2006	NWB10314	
Benzo(g,h,i)perylene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Indeno(1,2,3-c,d)pyrene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Acenaphthylene	ND	U	2.0	1	03/14/2006	03/25/2006	NWB10314	
Acenaphthene	ND	U	5.0	1	03/14/2006	03/25/2006	NWB10314	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Terphenyl-d14 - SS	87	65-135	03/25/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027

Surrogate Recovery Summary
Polynuclear Aromatic Hydrocarbons

Prep Method: SW3520
Analysis Method: SW8310

Units: Percent

Sample Name	Lab Code	Q	S1
Laboratory Control Sample	NWB10314LCS		78
Laboratory Control Sample Duplicate	NWB10314LCSD		78
Method Blank	NWB10314		87
1260GW102CL	D0600027-002		69

Surrogate Recovery Control Limits (%)

S1: Terphenyl-d14 - SS 65-135

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	Treadwell and Rollo,	**Service Request:**	D0600027
Project:	Presidio	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	03/14/2006
		Date Analyzed:	03/25/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Polynuclear Aromatic Hydrocarbons

LCS Sample	Lab Control Sample	**DMS Sample**	Lab Control Sample Duplicate
Lab Code:	NWB10314LCS	**Units:**	ug/L (ppb)
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Naphthalene	SW3520	SW8310	5.0	20.00	13.82	14.10	69	71	50-135	2	
Fluorene	SW3520	SW8310	1.0	4.000	3.754	3.768	94	94	65-135	0	
Pyrene	SW3520	SW8310	0.20	2.000	1.559	1.539	78	77	65-135	1	
Benzo(a)pyrene	SW3520	SW8310	0.20	2.000	1.323	1.338	66	67	65-135	1	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Extracted: 03/14/2006
Date Analyzed: 03/25/2006
Time Analyzed: 11:54

Method Blank Summary
Polynuclear Aromatic Hydrocarbons

Extaction Method: SW3520
Analysis Method: SW8310

Extraction Lot: NWB10314
Level:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	NWB10314LCS	I0325004	03/25/2006	10:53
Laboratory Control Sample Duplicate	NWB10314LCSD	I0325005	03/25/2006	11:24
1260GW102CL	D0600027-002	I0325010	03/25/2006	13:57

Standards data

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
ICAL Date: 03/24/2006

Initial Calibration Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI

Column: FL

Level ID	File ID
A	I0324011
B	I0324012
C	I0324013
D	I0324014
E	I0324015

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Naphthalene	A	1.000	71.54	B	10.00	86.01	C	20.00	91.96	D	30.00	89.40	E	40.00	85.52
Fluorene	A	0.200	157.7	B	2.000	206.8	C	4.000	207.7	D	6.000	208.2	E	8.000	186.5
Phenanthrene	A	0.100	900.0	B	1.000	1061	C	2.000	1124	D	3.000	1098	E	4.000	1047
Anthracene	A	0.100	890.5	B	1.000	1035	C	2.000	1096	D	3.000	1045	E	4.000	984.6
Fluoranthene	A	0.100	190.3	B	1.000	272.6	C	2.000	299.8	D	3.000	299.0	E	4.000	289.8
Pyrene	A	0.100	723.5	B	1.000	887.6	C	2.000	958.8	D	3.000	939.8	E	4.000	900.3
Benzo(a)anthracene	A	0.100	254.6	B	1.000	377.1	C	2.000	411.3	D	3.000	404.9	E	4.000	391.0
Chrysene	A	0.100	817.9	B	1.000	984.2	C	2.000	1048	D	3.000	1023	E	4.000	975.6
Benzo(b)fluoranthene	A	0.100	296.4	B	1.000	398.6	C	2.000	436.3	D	3.000	435.8	E	4.000	420.6
Benzo(k)fluoranthene	A	0.100	2308	B	1.000	2511	C	2.000	2679	D	3.000	2597	E	4.000	2428
Benzo(a)pyrene	A	0.100	2561	B	1.000	2771	C	2.000	2984	D	3.000	2911	E	4.000	2609
Dibenzo(a,h)anthracene	A	0.200	1438	B	2.000	1560	C	4.000	1637	D	6.000	1582	E	8.000	1378
Benzo(g,h,i)perylene	A	0.200	917.3	B	2.000	1080	C	4.000	1160	D	6.000	1112	E	8.000	1090
Indeno(1,2,3-c,d)pyrene	A	0.100	1350	B	1.000	1625	C	2.000	1735	D	3.000	1677	E	4.000	1652
Acenaphthene	A	1.000	223.2	B	10.00	233.7	C	20.00	244.0	D	30.00	235.4	E	40.00	211.8
Terphenyl-d14 - SS	A	0.250	295.1	B	2.500	359.9	C	5.000	386.0	D	7.500	376.4	E	10.00	361.6

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
ICAL Date: 03/24/2006

Initial Calibration Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI
Mean RSD: 9.91

Column: FL

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
Naphthalene	TRG	AverageRF	% RSD	9.3		20.0
Fluorene	TRG	AverageRF	% RSD	11.3		20.0
Phenanthrene	TRG	AverageRF	% RSD	8.3		20.0
Anthracene	TRG	AverageRF	% RSD	7.7		20.0
Fluoranthene	TRG	Linear	r	0.999		0.995
Pyrene	TRG	AverageRF	% RSD	10.6		20.0
Benzo(a)anthracene	TRG	AverageRF	% RSD	17.6		20.0
Chrysene	TRG	AverageRF	% RSD	9.3		20.0
Benzo(b)fluoranthene	TRG	AverageRF	% RSD	14.7		20.0
Benzo(k)fluoranthene	TRG	AverageRF	% RSD	5.8		20.0
Benzo(a)pyrene	TRG	AverageRF	% RSD	6.7		20.0
Dibenzo(a,h)anthracene	TRG	AverageRF	% RSD	7.1		20.0
Benzo(g,h,i)perylene	TRG	AverageRF	% RSD	8.6		20.0
Indeno(1,2,3-c,d)pyrene	TRG	AverageRF	% RSD	9.3		20.0
Acenaphthene	TRG	AverageRF	% RSD	5.4		20.0
Terphenyl-d14 - SS	SUR	AverageRF	% RSD	10.0		20.0

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
ICAL Date: 03/24/2006

Initial Calibration Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI

Column: UV

Level ID	File ID
A	I0324011
B	I0324012
C	I0324013
D	I0324014
E	I0324015

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Naphthalene	A	1.000	221.3	B	10.00	220.5	C	20.00	235.6	D	30.00	226.6	E	40.00	218.0
Fluorene	A	0.200	947.5	B	2.000	1027	C	4.000	1101	D	6.000	1051	E	8.000	1006
Phenanthrene	A	0.100	2438	B	1.000	2480	C	2.000	2610	D	3.000	2546	E	4.000	2450
Anthracene	A	0.100	5075	B	1.000	4963	C	2.000	5152	D	3.000	4895	E	4.000	4586
Fluoranthene	A	0.100	550.9	B	1.000	601.8	C	2.000	632.2	D	3.000	620.2	E	4.000	597.0
Pyrene	A	0.100	610.3	B	1.000	558.7	C	2.000	599.7	D	3.000	548.0	E	4.000	536.3
Benzo(a)anthracene	A	0.100	1535	B	1.000	1465	C	2.000	1561	D	3.000	1525	E	4.000	1475
Chrysene	A	0.100	2382	B	1.000	2321	C	2.000	2487	D	3.000	2410	E	4.000	2341
Benzo(b)fluoranthene	A	0.100	1699	B	1.000	1660	C	2.000	1757	D	3.000	1739	E	4.000	1678
Benzo(k)fluoranthene	A	0.100	1272	B	1.000	1168	C	2.000	1211	D	3.000	1186	E	4.000	1142
Benzo(a)pyrene	A	0.100	1478	B	1.000	1542	C	2.000	1620	D	3.000	1601	E	4.000	1554
Dibenzo(a,h)anthracene	A	0.200	444.7	B	2.000	395.3	C	4.000	421.7	D	6.000	411.1	E	8.000	394.5
Benzo(g,h,i)perylene	A	0.200	650.0	B	2.000	610.4	C	4.000	648.0	D	6.000	632.2	E	8.000	608.8
Indeno(1,2,3-c,d)pyrene	A	0.100	1789	B	1.000	1366	C	2.000	1446	D	3.000	1422	E	4.000	1353
Acenaphthylene	A	2.000	153.7	B	20.00	150.9	C	40.00	159.2	D	60.00	153.4	E	80.00	147.1
Acenaphthene	A	1.000	144.0	B	10.00	144.0	C	20.00	150.7	D	30.00	142.7	E	40.00	135.6
Terphenyl-d14 - SS	A	0.250	631.5	B	2.500	599.5	C	5.000	636.7	D	7.500	619.2	E	10.00	603.0

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
ICAL Date: 03/24/2006

Initial Calibration Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI
Mean RSD: 4.33

Column: UV

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
Naphthalene	TRG	AverageRF	% RSD	3.1		20.0
Fluorene	TRG	AverageRF	% RSD	5.5		20.0
Phenanthrene	TRG	AverageRF	% RSD	2.9		20.0
Anthracene	TRG	AverageRF	% RSD	4.4		20.0
Fluoranthene	TRG	AverageRF	% RSD	5.2		20.0
Pyrene	TRG	AverageRF	% RSD	5.7		20.0
Benzo(a)anthracene	TRG	AverageRF	% RSD	2.7		20.0
Chrysene	TRG	AverageRF	% RSD	2.7		20.0
Benzo(b)fluoranthene	TRG	AverageRF	% RSD	2.4		20.0
Benzo(k)fluoranthene	TRG	AverageRF	% RSD	4.1		20.0
Benzo(a)pyrene	TRG	AverageRF	% RSD	3.6		20.0
Dibenzo(a,h)anthracene	TRG	AverageRF	% RSD	5.0		20.0
Benzo(g,h,i)perylene	TRG	AverageRF	% RSD	3.1		20.0
Indeno(1,2,3-c,d)pyrene	TRG	AverageRF	% RSD	12.2		20.0
Acenaphthylene	TRG	AverageRF	% RSD	2.9		20.0
Acenaphthene	TRG	AverageRF	% RSD	3.7		20.0
Terphenyl-d14 - SS	SUR	AverageRF	% RSD	2.7		20.0

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
Date Analyzed: 03/24/2006

Second Source Calibration Verification
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI
File ID: I0324016

Column: FL

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Naphthalene	20.00	20.58	84.88	87.34	2.9	NA	+/- 15.0	AverageRF	
Fluorene	4.000	4.276	193.4	206.7	6.9	NA	+/- 15.0	AverageRF	*
Phenanthrene	2.000	2.029	1046	1062	1.5	NA	+/- 15.0	AverageRF	
Anthracene	2.000	2.136	1010	1079	6.8	NA	+/- 15.0	AverageRF	
Fluoranthene	2.000	2.124	270.3	310.1	NA	6.2	+/- 15.0	Linear	
Pyrene	2.000	2.088	882.0	920.7	4.4	NA	+/- 15.0	AverageRF	
Benzo(a)anthracene	2.000	2.204	367.8	405.3	10.2	NA	+/- 15.0	AverageRF	
Chrysene	2.000	2.169	969.7	1052	8.4	NA	+/- 15.0	AverageRF	
Benzo(b)fluoranthene	2.000	2.238	397.5	444.7	11.9	NA	+/- 15.0	AverageRF	
Benzo(k)fluoranthene	2.000	2.090	2504	2617	4.5	NA	+/- 15.0	AverageRF	
Benzo(a)pyrene	2.000	2.124	2767	2939	6.2	NA	+/- 15.0	AverageRF	
Dibenzo(a,h)anthracene	4.000	3.989	1519	1515	-0.3	NA	+/- 15.0	AverageRF	
Benzo(g,h,i)perylene	4.000	4.121	1072	1104	3.0	NA	+/- 15.0	AverageRF	
Indeno(1,2,3-c,d)pyrene	2.000	2.151	1608	1729	7.5	NA	+/- 15.0	AverageRF	
Acenaphthene	20.00	20.97	229.6	240.8	4.9	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
Date Analyzed: 03/24/2006

Second Source Calibration Verification
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI
File ID: I0324016

Column: UV

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Naphthalene	20.00	19.90	224.4	223.3	-0.5	NA	+/- 15.0	AverageRF	
Fluorene	4.000	4.041	1026	1037	1.0	NA	+/- 15.0	AverageRF	
Phenanthrene	2.000	1.959	2505	2453	-2.0	NA	+/- 15.0	AverageRF	
Anthracene	2.000	2.060	4934	5082	3.0	NA	+/- 15.0	AverageRF	
Fluoranthene	2.000	2.099	600.4	630.0	4.9	NA	+/- 15.0	AverageRF	
Pyrene	2.000	1.909	570.6	544.6	-4.6	NA	+/- 15.0	AverageRF	
Benzo(a)anthracene	2.000	2.038	1512	1541	1.9	NA	+/- 15.0	AverageRF	
Chrysene	2.000	2.069	2388	2471	3.5	NA	+/- 15.0	AverageRF	
Benzo(b)fluoranthene	2.000	2.082	1707	1777	4.1	NA	+/- 15.0	AverageRF	
Benzo(k)fluoranthene	2.000	1.985	1196	1187	-0.7	NA	+/- 15.0	AverageRF	
Benzo(a)pyrene	2.000	2.102	1559	1639	5.1	NA	+/- 15.0	AverageRF	
Dibenzo(a,h)anthracene	4.000	3.724	413.5	385.0	-6.9	NA	+/- 15.0	AverageRF	
Benzo(g,h,i)perylene	4.000	3.966	629.9	624.4	-0.9	NA	+/- 15.0	AverageRF	
Indeno(1,2,3-c,d)pyrene	2.000	1.984	1475	1463	-0.8	NA	+/- 15.0	AverageRF	
Acenaphthylene	40.00	39.54	152.9	151.1	-1.2	NA	+/- 15.0	AverageRF	
Acenaphthene	20.00	19.47	143.4	139.6	-2.7	NA	+/- 15.0	AverageRF	

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
Date Analyzed: 03/25/2006

Continuing Calibration Verification Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI
File ID: I0325003

Column: FL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Naphthalene	20.00	21.32	84.88	90.47	6.6	NA	+/- 15.0	AverageRF	
Fluorene	4.000	5.334	193.4	257.9	33.4	NA	+/- 15.0	AverageRF	*
Phenanthrene	2.000	2.189	1046	1145	9.4	NA	+/- 15.0	AverageRF	
Anthracene	2.000	2.185	1010	1104	9.3	NA	+/- 15.0	AverageRF	
Fluoranthene	2.000	2.053	270.3	299.6	NA	2.6	+/- 15.0	Linear	
Pyrene	2.000	2.077	882.0	915.9	3.8	NA	+/- 15.0	AverageRF	
Benzo(a)anthracene	2.000	2.251	367.8	414.0	12.6	NA	+/- 15.0	AverageRF	
Chrysene	2.000	2.176	969.7	1055	8.8	NA	+/- 15.0	AverageRF	
Benzo(b)fluoranthene	2.000	2.210	397.5	439.4	10.5	NA	+/- 15.0	AverageRF	
Benzo(k)fluoranthene	2.000	2.125	2504	2662	6.3	NA	+/- 15.0	AverageRF	
Benzo(a)pyrene	2.000	2.090	2767	2892	4.5	NA	+/- 15.0	AverageRF	
Dibenzo(a,h)anthracene	4.000	4.282	1519	1626	7.0	NA	+/- 15.0	AverageRF	
Benzo(g,h,i)perylene	4.000	4.220	1072	1131	5.5	NA	+/- 15.0	AverageRF	
Indeno(1,2,3-c,d)pyrene	2.000	2.148	1608	1727	7.4	NA	+/- 15.0	AverageRF	
Acenaphthene	20.00	21.89	229.6	251.3	9.4	NA	+/- 15.0	AverageRF	

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
Date Analyzed: 03/25/2006

Continuing Calibration Verification Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI
File ID: I0325003

Column: UV

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Naphthalene	20.00	20.78	224.4	233.2	3.9	NA	+/- 15.0	AverageRF	
Fluorene	4.000	4.296	1026	1102	7.4	NA	+/- 15.0	AverageRF	
Phenanthrene	2.000	2.096	2505	2625	4.8	NA	+/- 15.0	AverageRF	
Anthracene	2.000	2.094	4934	5166	4.7	NA	+/- 15.0	AverageRF	
Fluoranthene	2.000	2.164	600.4	649.6	8.2	NA	+/- 15.0	AverageRF	
Pyrene	2.000	1.978	570.6	564.3	-1.1	NA	+/- 15.0	AverageRF	
Benzo(a)anthracene	2.000	2.097	1512	1586	4.9	NA	+/- 15.0	AverageRF	
Chrysene	2.000	2.104	2388	2513	5.2	NA	+/- 15.0	AverageRF	
Benzo(b)fluoranthene	2.000	2.070	1707	1766	3.5	NA	+/- 15.0	AverageRF	
Benzo(k)fluoranthene	2.000	2.024	1196	1210	1.2	NA	+/- 15.0	AverageRF	
Benzo(a)pyrene	2.000	2.044	1559	1593	2.2	NA	+/- 15.0	AverageRF	
Dibenzo(a,h)anthracene	4.000	4.101	413.5	423.9	2.5	NA	+/- 15.0	AverageRF	
Benzo(g,h,i)perylene	4.000	4.104	629.9	646.2	2.6	NA	+/- 15.0	AverageRF	
Indeno(1,2,3-c,d)pyrene	2.000	1.976	1475	1458	-1.2	NA	+/- 15.0	AverageRF	
Acenaphthylene	40.00	41.88	152.9	160.1	4.7	NA	+/- 15.0	AverageRF	
Acenaphthene	20.00	21.02	143.4	150.7	5.1	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
Date Analyzed: 03/25/2006

Continuing Calibration Verification Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI
File ID: I0325012

Column: FL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Naphthalene	30.00	31.26	84.88	88.46	4.2	NA	+/- 15.0	AverageRF	
Fluorene	6.000	7.992	193.4	257.6	33.2	NA	+/- 15.0	AverageRF	*
Phenanthrene	3.000	3.194	1046	1114	6.5	NA	+/- 15.0	AverageRF	
Anthracene	3.000	3.091	1010	1041	3.0	NA	+/- 15.0	AverageRF	
Fluoranthene	3.000	2.672	270.3	261.0	NA	-10.9	+/- 15.0	Linear	
Pyrene	3.000	2.992	882.0	879.6	-0.3	NA	+/- 15.0	AverageRF	
Benzo(a)anthracene	3.000	3.332	367.8	408.5	11.1	NA	+/- 15.0	AverageRF	
Chrysene	3.000	3.192	969.7	1032	6.4	NA	+/- 15.0	AverageRF	
Benzo(b)fluoranthene	3.000	3.299	397.5	437.2	10.0	NA	+/- 15.0	AverageRF	
Benzo(k)fluoranthene	3.000	3.142	2504	2623	4.8	NA	+/- 15.0	AverageRF	
Benzo(a)pyrene	3.000	3.143	2767	2899	4.8	NA	+/- 15.0	AverageRF	
Dibenzo(a,h)anthracene	6.000	6.275	1519	1589	4.6	NA	+/- 15.0	AverageRF	
Benzo(g,h,i)perylene	6.000	5.962	1072	1065	-0.6	NA	+/- 15.0	AverageRF	
Indeno(1,2,3-c,d)pyrene	3.000	3.027	1608	1622	0.9	NA	+/- 15.0	AverageRF	
Acenaphthene	30.00	31.85	229.6	243.8	6.2	NA	+/- 15.0	AverageRF	

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
Date Analyzed: 03/25/2006

Continuing Calibration Verification Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI
File ID: I0325012

Column: UV

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Naphthalene	30.00	30.79	224.4	230.3	2.6	NA	+/- 15.0	AverageRF	
Fluorene	6.000	6.182	1026	1057	3.0	NA	+/- 15.0	AverageRF	
Phenanthrene	3.000	3.104	2505	2591	3.5	NA	+/- 15.0	AverageRF	
Anthracene	3.000	3.029	4934	4982	1.0	NA	+/- 15.0	AverageRF	
Fluoranthene	3.000	3.081	600.4	616.6	2.7	NA	+/- 15.0	AverageRF	
Pyrene	3.000	2.891	570.6	549.9	-3.6	NA	+/- 15.0	AverageRF	
Benzo(a)anthracene	3.000	3.088	1512	1557	2.9	NA	+/- 15.0	AverageRF	
Chrysene	3.000	3.086	2388	2456	2.9	NA	+/- 15.0	AverageRF	
Benzo(b)fluoranthene	3.000	3.086	1707	1755	2.8	NA	+/- 15.0	AverageRF	
Benzo(k)fluoranthene	3.000	2.967	1196	1183	-1.1	NA	+/- 15.0	AverageRF	
Benzo(a)pyrene	3.000	3.035	1559	1578	1.2	NA	+/- 15.0	AverageRF	
Dibenzo(a,h)anthracene	6.000	5.992	413.5	412.9	-0.1	NA	+/- 15.0	AverageRF	
Benzo(g,h,i)perylene	6.000	6.087	629.9	639.0	1.4	NA	+/- 15.0	AverageRF	
Indeno(1,2,3-c,d)pyrene	3.000	3.010	1475	1480	0.3	NA	+/- 15.0	AverageRF	
Acenaphthylene	60.00	61.11	152.9	155.7	1.8	NA	+/- 15.0	AverageRF	
Acenaphthene	30.00	30.67	143.4	146.6	2.2	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027

Analysis Run Log
Polynuclear Aromatic Hydrocarbons

Analysis Method: SW8310

Instrument ID: LCI
Column: FL

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
I0324011	FSTD1	FSTD1	03/24/2006	14:01		03/24/2006	14:31
I0324012	FSTD2	FSTD2	03/24/2006	14:31		03/24/2006	15:01
I0324013	FSTD3	FSTD3	03/24/2006	15:02		03/24/2006	15:32
I0324014	FSTD4	FSTD4	03/24/2006	15:33		03/24/2006	16:03
I0324015	FSTD5	FSTD5	03/24/2006	16:03		03/24/2006	16:33
I0324016	QCALTSTD	FSTD3 ICVS	03/24/2006	16:34		03/24/2006	17:04
I0325003	KSTD3	KSTD3	03/25/2006	10:02		03/25/2006	10:32
I0325004	Laboratory Control Sample	NWB10314LCS	03/25/2006	10:53		03/25/2006	11:23
I0325005	Laboratory Control Sample Duplicate	NWB10314LCSD	03/25/2006	11:24		03/25/2006	11:54
I0325006	Method Blank	NWB10314	03/25/2006	11:54		03/25/2006	12:24
I0325010	1260GW102CL	D0600027-002	03/25/2006	13:57		03/25/2006	14:27
I0325012	KSTD4	KSTD4	03/25/2006	15:40		03/25/2006	16:10

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027

Analysis Run Log
Polynuclear Aromatic Hydrocarbons

Analysis Method: SW8310

Instrument ID: LCI
Column: UV

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
I0324011	FSTD1	FSTD1	03/24/2006	14:01		03/24/2006	14:31
I0324012	FSTD2	FSTD2	03/24/2006	14:31		03/24/2006	15:01
I0324013	FSTD3	FSTD3	03/24/2006	15:02		03/24/2006	15:32
I0324014	FSTD4	FSTD4	03/24/2006	15:33		03/24/2006	16:03
I0324015	FSTD5	FSTD5	03/24/2006	16:03		03/24/2006	16:33
I0324016	QCALTSTD	FSTD3 ICVS	03/24/2006	16:34		03/24/2006	17:04
I0325003	KSTD3	KSTD3	03/25/2006	10:02		03/25/2006	10:32
I0325004	Laboratory Control Sample	NWB10314LCS	03/25/2006	10:53		03/25/2006	11:23
I0325005	Laboratory Control Sample Duplicate	NWB10314LCSD	03/25/2006	11:24		03/25/2006	11:54
I0325006	Method Blank	NWB10314	03/25/2006	11:54		03/25/2006	12:24
I0325010	1260GW102CL	D0600027-002	03/25/2006	13:57		03/25/2006	14:27
I0325012	KSTD4	KSTD4	03/25/2006	15:40		03/25/2006	16:10

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Extracted: 03/14/2006

Extraction Prep Log
Polynuclear Aromatic Hydrocarbons

Extaction Method: SW3520
Analysis Method: SW8310

Extraction Lot: NWB10314
Level:

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	NWB10314	NA	NA	1.000 L	1	NA	
Laboratory Control Sample	NWB10314LCS	NA	NA	1.000 L	1	NA	
Laboratory Control Sample Duplicate	NWB10314LCSD	NA	NA	1.000 L	1	NA	
1260GW102CL	D0600027-002	03/09/2006	03/11/2006	1.020 L	1	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027

Holding Time Summary
Polynuclear Aromatic Hydrocarbons

Analysis Method: SW8310

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
1260GW102CL	03/09/2006	03/11/2006	03/14/2006	7	5	N/A	N/A	N/A	03/25/2006	40	11	

Comments:

SUPPORT DOCUMENTATION

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: SW8310 Matrix: Water

Instrument ID: LCI

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
Anthracene	08/03/2005	0.01	0.0030	0.0034	0.0037	0.0056	0.0034	0.0035	0.0048	0.0027	0.0010	0.0029
Pyrene	08/03/2005	0.01	0.0044	0.0038	0.0058	0.0070	0.0050	0.0095	0.0075	0.0034	0.0021	0.0062
Benzo(g,h,i)perylene	08/03/2005	0.02	0.0076	0.0049	0.0096	0.0103	0.0098	0.0115	0.0121	0.0075	0.0024	0.0071
Indeno(1,2,3-cd)pyrene	08/03/2005	0.01	0.0039	0.0028	0.0054	0.0049	0.0049	0.0062	0.0069	0.0036	0.0013	0.0040
Benzo(b)fluoranthene	08/03/2005	0.01	0.0070	0.0049	0.0068	0.0087	0.0056	0.0090	0.0077	0.0048	0.0016	0.0049
Fluoranthene	08/03/2005	0.01	0.0047	0.0039	0.0058	0.0054	0.0054	0.0076	0.0068	0.0037	0.0013	0.0040
Benzo(k)fluoranthene	08/03/2005	0.01	0.0058	0.0037	0.0061	0.0061	0.0058	0.0055	0.0071	0.0049	0.0010	0.0030
Acenaphthylene	08/03/2005	0.20	0.1214	0.1827	0.1758	0.1889	0.1609	0.1606	0.2152	0.1444	0.029	0.086
Chrysene	08/03/2005	0.01	0.0043	0.0032	0.0049	0.0044	0.0043	0.0075	0.0055	0.0038	0.0013	0.0040
Benzo(a)pyrene	08/03/2005	0.01	0.0038	0.0039	0.0048	0.0093	0.0042	0.0038	0.0056	0.0037	0.0019	0.0057
Dibenzo(a,h)anthracene	08/03/2005	0.02	0.0125	0.0078	0.0147	0.0153	0.0153	0.0127	0.0162	0.0118	0.0027	0.0082
Benzo(a)anthracene	08/03/2005	0.01	0.0022	0.0014	0.0027	0.0032	0.0018	0.0061	0.0038	0.0013	0.0016	0.0048
Acenaphthene	08/03/2005	0.10	0.0442	0.0488	0.0485	0.0487	0.0464	0.0465	0.0578	0.0363	0.0060	0.018
Phenanthrene	08/03/2005	0.01	0.0054	0.0054	0.0060	0.0069	0.0055	0.0064	0.0076	0.0045	0.0010	0.0029
Fluorene	08/03/2005	0.02	0.0068	0.0082	0.0077	0.0089	0.0081	0.0073	0.0096	0.0047	0.0015	0.0045
Naphthalene	08/03/2005	0.10	0.0377	0.0412	0.0430	0.0413	0.0435	0.0393	0.0553	0.0333	0.0063	0.019

Liquid-Liquid Extraction, 3520C **Polynuclear Aromatic Hydrocarbon Water**

Date	3-14-06
Time	15:25

Batches: D1t005, D1t009, D0600027

Client(s): Presidio, Tradwell & Rollo

Analytical Method

~~8330~~ 8310

Solvent Lots

DCM	45348 3/6 3/14
Cylcohexane	
Pentane	
Acetonitrile	45029 12/1/5 2/16/6

Spikes

Surrogate: 13-EXS-90B

Amt. 1.0 ml Exp: 6/13/06

Spike: 13-EXS-87A

Amt. 1.0 ml Exp: 5/16/06

Spiked by: JP Witness: CC

Cleanup

☐ Silica Gel, 3630C

By/date ____ Lot ____

☒ No cleanup

Comments:

Test Code(s)
8310

Sample ID	Spikes: Surrogate	Spike	Amt (1L)	Final KD: H2O bath temp 95(ACN) °C; Date & Volume	Relinq. Date
	X	X	By: JP	By: MMP 3/14/6	By: MMP 3/28/6
NWB1	X		1.0	1.0 ml	
~~NWB2~~					JP 3-14-06
NWL1	X	X	1.0		
NWL2	X	X	1.0		
D1H005-5R	X		1.05		
-6R	X		1.04		
D1t009-2W	X		1.03		
D0600027-2.10	X		1.02		

☐ Completed ms/msd

☒ Sample limited, no ms/msd, duplicate LCS

065

Peer Review By:

Organic Extractions Dept.
CAS-Redding

Columbia Analytical Services, Inc.

HP1050 Injection Log

Instrument ID:
LCI

Standard(s)	
A	1-HP-48F
B	
C	

Analytical Method	
X	8310
	8315A
	8330
	Other _____

Target Method(s)	
A	8310_0324PL/UV.m
B	
C	
D	

Date
3/24/06

ICAL Date(s)	3/24/06

Analyst	mge

Page: 5

Target Method	Data Directory	Filename	Sample ID	F	Matrix	DL Factor	STD	Use?	Comments
A	I060324	I0324 001-	010 WASH	—	STD	1x		—	run multiple washes to cycle instrument
		011	KSTD1	—				Y	1-HP-48C
		012	KSTD2	—					-48D
		013	KSTD3	—					-48E
		014	KSTD4	—					-48F
		015	KSTD5	—					-48A
		016	KSTD3 ICVS	—					(passed)
		017	NWB103/4LCS	—	WA			N	
		018	LCSD	—					
		019	NWB10314	—					
		020	DH005005						
		021	006						
		022	DH009002						
		023	D0600027-002						
		024	WASH	—	—				
		025	KSTD4	—	STD		A		Wavelength settings OFF - Rerun sequence

Columbia Analytical Services, Inc.

HP1050 Injection Log

Instrument ID:
LCI

Standard(s)	
A	1-HP-48E
B	-48F
C	

Analytical Method	
X	8310
	8315A
	8330
	Other

Target Method(s)	
A	8310_0324FL/UV.m
B	
C	
D	

Date
3/25/06

ICAL Date(s)	3/24/06

Analyst	mBc

Page: 6

Target Method	Data Directory	Filename	Sample ID	F	Matrix	DL Factor	STD	Use?	Comments
A	I060325	I0325 001	Primer	—	STD	1X		—	Condition instrument; adj. wavelength settings
		002	Wash	—				—	
		003	KSTD3	—			A	Y	Fluorene ↑ FL, OK on UV : Report from UV
		004	NWB10314LCS	—	WA				
		005	LCSD	—					
		006	NWB10314	—					
		007	DH005005	R					
		008	006	R					
		009	DH009002	N					
		010	D0600027-002	·10					
		011	WASH	—	—			—	
		012	KSTD4	—	STD		B	Y	Fluorene ↑ FL, OK on UV : Mistits in samples

GC PURGEABLE AROMATICS

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Collected: 03/09/2006
Date Received: 03/11/2006

Halogenated and Aromatic Volatiles

Sample Name: 1260GW102CL
Lab Code: D0600027-002
Extraction SW5030
Analysis Method: SW8021

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
tert-Butyl Methyl Ether	ND	U	2.5	1	03/21/2006	03/21/2006	NWB10321	
Benzene	ND	U	0.50	1	03/21/2006	03/21/2006	NWB10321	
Toluene	ND	U	0.50	1	03/21/2006	03/21/2006	NWB10321	
Ethylbenzene	ND	U	0.50	1	03/21/2006	03/21/2006	NWB10321	
Xylene (total)	ND	U	1.0	1	03/21/2006	03/21/2006	NWB10321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorobenzene	101	80-120	03/21/2006	

Comments: _____

QC Summary

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Collected: NA
Date Received: NA

Halogenated and Aromatic Volatiles

Sample Name: Method Blank
Lab Code: NWB10321
Extraction SW5030
Analysis Method: SW8021

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
tert-Butyl Methyl Ether	ND	U	2.5	1	03/21/2006	03/21/2006	NWB10321	
Benzene	ND	U	0.50	1	03/21/2006	03/21/2006	NWB10321	
Toluene	ND	U	0.50	1	03/21/2006	03/21/2006	NWB10321	
Ethylbenzene	ND	U	0.50	1	03/21/2006	03/21/2006	NWB10321	
Xylene (total)	ND	U	1.0	1	03/21/2006	03/21/2006	NWB10321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorobenzene	111	80-120	03/21/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027

Surrogate Recovery Summary
Halogenated and Aromatic Volatiles

Prep Method: SW5030
Analysis Method: SW8021

Units: Percent

Sample Name	Lab Code	Q	S1
Laboratory Control Sample	NWB10321LCS		103
Laboratory Control Sample Duplicate	NWB10321LCSD		106
Method Blank	NWB10321		111
1260GW102CL	D0600027-002		101

Surrogate Recovery Control Limits (%)

S1: Fluorobenzene 80-120

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	Treadwell and Rollo,	**Service Request:**	D0600027
Project:	Presidio	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	03/21/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Halogenated and Aromatic Volatiles

LCS Sample	Lab Control Sample	**DMS Sample**	Lab Control Sample Duplicate
Lab Code:	NWB10321LCS	**Units:**	ug/L (ppb)
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
tert-Butyl Methyl Ether	SW5030	SW8021	2.5	100.0	106.3	105.1	106	105	80-120	1	
Benzene	SW5030	SW8021	0.50	20.00	20.77	21.04	104	105	80-120	1	
Toluene	SW5030	SW8021	0.50	20.00	20.56	20.90	103	104	80-120	2	
Ethylbenzene	SW5030	SW8021	0.50	20.00	20.72	21.07	104	105	80-120	2	
Xylene (total)	SW5030	SW8021	1.0	60.00	61.54	62.57	102	104	80-120	2	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client:	Treadwell and Rollo,	**Service Request:**	D0600027
Project:	Presidio	**Date Extracted:**	03/21/2006
Sample Matrix:	Water	**Date Analyzed:**	03/21/2006
		Time Analyzed:	12:55

Method Blank Summary
Halogenated and Aromatic Volatiles

Extaction Method:	SW5030	**Extraction Lot:**	NWB10321
Analysis Method:	SW8021	**Level:**	

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	NWB10321LCS	NF032108	03/21/2006	12:05
Laboratory Control Sample Duplicate	NWB10321LCSD	NF032109	03/21/2006	12:30
1260GW102CL	D0600027-002	NF032113	03/21/2006	14:10

Standards Summary

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
ICAL Date: 03/21/2006

Initial Calibration Summary
Halogenated and Aromatic Volatiles

ICAL ID: 03/21/2006GCN
Instrument ID: GCN

Column: RTX-1, PID

Level ID	File ID	Level ID	File ID
A	NF032102	F	NF032101
B	NF032103		
C	NF032104		
D	NF032105		
E	NF032106		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
tert-Butyl Methyl Ether	A	5.000	1.445	B	25.00	1.267	C	100.0	1.136	D	150.0	1.156	E	250.0	1.110
	F	2.500	1.732												
Benzene	A	1.000	3.478	B	5.000	2.946	C	20.00	2.744	D	30.00	2.815	E	50.00	2.730
	F	0.500	3.157												
Toluene	A	1.000	3.662	B	5.000	2.808	C	20.00	2.561	D	30.00	2.632	E	50.00	2.546
	F	0.500	6.984												
Ethylbenzene	A	1.000	2.864	B	5.000	2.429	C	20.00	2.270	D	30.00	2.333	E	50.00	2.277
	F	0.500	3.552												
Xylene (total)	A	3.000	3.267	B	15.00	2.686	C	60.00	2.493	D	90.00	2.592	E	150.0	2.531
	F	1.500	4.522												
Fluorobenzene-ss	A	5.000	1.844	B	25.00	2.152	C	100.0	2.062	D	155.0	2.050	E	250.0	1.981

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
ICAL Date: 03/21/2006

Initial Calibration Summary
Halogenated and Aromatic Volatiles

ICAL ID: 03/21/2006GCN
Instrument ID: GCN
Mean RSD: 24.64

Column: RTX-1, PID

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
tert-Butyl Methyl Ether	TRG	Linear	r	1.000		0.995
Benzene	TRG	Linear	r	1.000		0.995
Toluene	TRG	Linear	r	1.000		0.995
Ethylbenzene	TRG	Linear	r	1.000		0.995
Xylene (total)	TRG	Linear	r	1.000		0.995
Fluorobenzene-ss	SUR	AverageRF	% RSD	5.7		20.0

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
Date Analyzed: 03/21/2006

Second Source Calibration Verification
Halogenated and Aromatic Volatiles

ICAL ID: 03/21/2006GCN
Instrument ID: GCN
File ID: NF032107

Column: RTX-1, PID

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
tert-Butyl Methyl Ether	100.0	101.8	1.308	1.158	NA	1.8	+/- 15.0	Linear	
Benzene	20.00	20.37	2.978	2.822	NA	1.8	+/- 15.0	Linear	
Toluene	20.00	20.21	3.532	2.634	NA	1.0	+/- 15.0	Linear	
Ethylbenzene	20.00	20.43	2.621	2.354	NA	2.2	+/- 15.0	Linear	
Xylene (total)	60.00	60.54	3.015	2.582	NA	0.9	+/- 15.0	Linear	
Fluorobenzene-ss	100.0	98.46	2.018	1.987	-1.5	NA	+/- 20.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027
Date Analyzed: 03/21/2006

Continuing Calibration Verification Summary
Halogenated and Aromatic Volatiles

ICAL ID: 03/21/2006GCN
Instrument ID: GCN
File ID: NF032114

Column: RTX-1, PID

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
tert-Butyl Methyl Ether	100.0	103.2	1.308	1.173	NA	3.2	+/- 15.0	Linear	
Benzene	20.00	20.59	2.978	2.851	NA	3.0	+/- 15.0	Linear	
Toluene	20.00	20.14	3.532	2.625	NA	0.7	+/- 15.0	Linear	
Ethylbenzene	20.00	19.74	2.621	2.277	NA	-1.3	+/- 15.0	Linear	
Xylene (total)	60.00	57.30	3.015	2.446	NA	-4.5	+/- 15.0	Linear	
Fluorobenzene-ss	100.0	103.6	2.018	2.091	3.6	NA	+/- 20.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027

Analysis Run Log
Halogenated and Aromatic Volatiles

Analysis Method: SW8021

Instrument ID: GCN
Column: RTX-1, PID

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
NF032101	ASTD6	ASTD6	03/21/2006	09:10		03/21/2006	09:30
NF032102	ASTD1	ASTD1	03/21/2006	09:35		03/21/2006	09:55
NF032103	ASTD2	ASTD2	03/21/2006	10:00		03/21/2006	10:20
NF032104	ASTD3	ASTD3	03/21/2006	10:25		03/21/2006	10:45
NF032105	ASTD4	ASTD4	03/21/2006	10:50		03/21/2006	11:10
NF032106	ASTD5	ASTD5	03/21/2006	11:15		03/21/2006	11:35
NF032107	QCALTSTD	QCALTSTD	03/21/2006	11:40		03/21/2006	12:00
NF032108	Laboratory Control Sample	NWB10321LCS	03/21/2006	12:05		03/21/2006	12:25
NF032109	Laboratory Control Sample Duplicate	NWB10321LCSD	03/21/2006	12:30		03/21/2006	12:50
NF032110	Method Blank	NWB10321	03/21/2006	12:55		03/21/2006	13:15
NF032113	1260GW102CL	D0600027-002	03/21/2006	14:10		03/21/2006	14:30
NF032114	ASTD3	ASTD3	03/21/2006	14:35		03/21/2006	14:55

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo,
Project: Presidio
Sample Matrix: Water

Service Request: D0600027
Date Extracted: 03/21/2006

Extraction Prep Log
Halogenated and Aromatic Volatiles

Extaction Method: SW5030
Analysis Method: SW8021

Extraction Lot: NWB10321
Level:

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	NWB10321	NA	NA	5.000 ML	5.000	NA	
Laboratory Control Sample	NWB10321LCS	NA	NA	5.000 ML	5.000	NA	
Laboratory Control Sample Duplicate	NWB10321LCSD	NA	NA	5.000 ML	5.000	NA	
1260GW102CL	D0600027-002	03/09/2006	03/11/2006	5.000 ML	5.000	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo,
Project: Presidio

Service Request: D0600027

Holding Time Summary
Halogenated and Aromatic Volatiles

Analysis Method: SW8021

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
1260GW102CL	03/09/2006	03/11/2006	N/A	N/A	N/A	N/A	N/A	N/A	03/21/2006	14	12	

Comments:

SUPPORT DOCUMENTATION

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: SW8021 Matrix: Water

Instrument ID: GCN

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
Ethylbenzene	03/22/2005	1.00	0.461	0.622	0.503	0.573	0.397	0.504	0.649	0.545	0.083	0.25
Toluene	03/22/2005	1.00	0.521	0.662	0.557	0.686	0.447	0.546	0.710	0.578	0.090	0.27
Total Xylenes	03/22/2005											0.25
tert-Butylmethylether	03/22/2005	5.00	1.84	3.44	2.84	3.39	2.90	3.06	3.64	3.06	0.55	1.7
Benzene	03/22/2005	1.00	0.572	0.679	0.575	0.626	0.447	0.564	0.653	0.546	0.072	0.22

GC Volatiles

Columbia Analytical Services - Redding

Date
03/21/06

RT Marker Std Prep #3 luft 65C
Internal Standard Std Prep #3 luft 59C
Surrogate Std Prep #3 luft 57C

Std A Prep #3 luft 65D B 66A
Std B Prep #3 luft 65E B 66B
Std C Prep #3 luft 65D
Std D Prep #3 luft 65E

Analyst: B
ICAL Date: 03/21/06 / 03/21/06
Method: SW8021 / SW8015

Filename	Laboratory ID	Vial	Matrix	pH	Weight (Grams)	%M	DL Factor	STD	Gas Run OK?	Gas Rept?	A1 Run OK?	A2 Run OK?	Aromatic Rept?	Comments
NP032101	ASTD6	–	–	–	–	–	–	A			✓		✓	
2	ASTD1	–	–	–	–	–	–				✓		✓	
3	ASTD2	–	–	–	–	–	–				✓		✓	
4	ASTD3	–	–	–	–	–	–				✓		✓	
5	ASTD4	–	–	–	–	–	–				✓		✓	
6	ASTD5	–	–	–	–	–	–				✓		✓	
7	QCALTSTD	–	–	–	–	–	–	B			✓		✓	
8	NWB10321CCS	–	W	–	–	–	1X	B			✓		✓	
9	NWB10321CCSD	–		–	–	–		B			✓		✓	
10	NWB10321BLK	–		–	–	–					✓		✓	
11	DH005002	A		22	–	–					✓		✓	
12	3	A			–	–					✓		✓	
13	D0600027-002	02			–	–					✓		✓	
14	ASTD3	–	–	–	–	–	–	A						
NF032101	RT MARKER	–	–	–	–	–	–	C	✓	✓				
2	GSTD1	–	–	–	–	–	–		✓	✓				
3	GSTD2	–	–	–	–	–	–		✓	✓				
4	GSTD3	–	–	–	–	–	–		✓	✓				
5	GSTD4	–	–	–	–	–	–		✓	✓				
6	GSTD5	–	–	–	–	–	–	D	✓	✓				
7	QCALTSTD	–	S	–	5.0	–	1X		✓	✓				
8	NSB10321CCS	–	S	–		–			✓	✓				
9	NSB10321CCSD	–	M	–		–			✓	✓				
10	NMB10321CCS	–	M	–		–			✓	✓				
11	NMB10321CCSD	–	S	–		–			✓	✓				
12	NSB10321BLK	–	M	–		–			✓	✓				
13	NMB10321BLK	D	S	–	7.59	31			✓	✓				
14	DH041001													

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5090 Caterpillar Road Redding, California 96003 (530) 244-5227 ph (530) 244-4109 fax

Columbia Analytical Services INC.
An Employee - Owned Company

April 27, 2006

Mr. Josh Graber
Treadwell & Rollo, Inc.
555 Montgomery St., Suite 1300
San Francisco, CA 94111

RE: Presidio

Dear Josh:

Enclosed are the results of the samples submitted to our laboratory on March 29, 2006. For your reference, these analyses have been assigned our service request number DH005.

All analyses were performed according to our Laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

If you have any questions, please call me at (530) 244-5269.

Respectfully submitted,

Columbia Analytical Services, Inc.

Douglas Burnett
Project Manager

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CAS Service Request: DH005
CAS Tier Level: III

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180	GC TPH GASOLINE
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Current CAS Redding Accreditation Program s

Federal and National Programs

- U.S Air Force, Air Force Center for Environmental Excellence (AFCEE)
  Approved laboratory for Wastewater and Hazardous Waste
- U.S. Army Corps of Engineers – MRD, HTRW Mandatory Center of Expertise
  Validated for Wastewater and Hazardous Waste
- Department of the Navy, Naval Facilities Engineering Service Center (NFESC)
  Approved laboratory for Wastewater and Hazardous Waste

State and Local Programs

- State of Arizona, Department of Health Services
  Approved laboratory for Hazardous Waste
  Lab ID# AZ0604
- State of Arkansas, Department of Environmental Quality
  Approved laboratory for Wastewater and Hazardous Waste
  Lab ID# None
- State of California, Department of Health Services, National Environmental Laboratory Accreditation Program (NELAP)
  Approved laboratory for Drinking Water, Wastewater and Hazardous Waste
  Lab ID# 01105CA
  - Los Angeles County Sanitation District
    Approved laboratory for Wastewater
    Lab ID# 10243
- State of Florida, Department of Health (NELAP)
  Approved Environmental Testing Laboratory for Wastewater and Hazardous Waste
  Lab ID# E87203
- State of Kansas, Department of Health and Environment (NELAP)
  Approved laboratory for Hazardous Waste
  Lab ID# E-10323
- State of Massachusetts, Department of Environmental Protection
  Approved laboratory for Drinking Water, Wastewater
  Lab ID# M-CA025
- State of Oklahoma, Department of Environmental Quality
  Approved laboratory for General Water Quality/Sludge Testing
  Lab ID# 9952
- State of Oregon, Department of Human Resources, Health Division (ORELAP)
  Approved laboratory for Drinking Water, Wastewater, and Hazardous Waste
  Lab ID# CA200004
- State of Utah, Department of Health, Division of Laboratory Services (NELAP)
  Approved laboratory for Wastewater and Hazardous Waste
  Lab ID# QUAL1
- State of Washington, Department of Ecology, Environmental Laboratory Accreditation Program
  Approved laboratory for Wastewater and Hazardous Waste
  Lab ID# C037
- State of Wisconsin, Department of Ecology
  Approved laboratory for Wastewater and Hazardous Waste
  Lab ID# 999767340

Updated 10/7/2005

Organic Department Qualifiers

Organic Sample ID Qualifiers

A This qualifier indicates that a TIC is a suspected aldol-condensation product

B Used when the analyte is found in the associated blank as well as the sample, indicating possible blank contamination. The data user should evaluate these compounds and their amounts carefully.

C The "C" flag indicates the presence of this compound has been confirmed by the GC/MS analysis.

D This qualifier is used for all the compounds identified in an analysis at a secondary dilution factor. "D" qualifiers are used only for the samples reported at more than one dilution factor.

E This flag indicates that the value reported exceeds the linear calibration range for that compound. Therefore, the sample should be reanalyzed at the appropriate dilution. The "E" qualified amount is an estimated concentration, and the results of the dilution will be reported on a separate Form I.

I The qualifier indicates that the reporting limit to the "I" qualifier has been raised. It is used when the chromatographic interference prohibits detection of a compound at a level below the concentration expressed on the Form I.

J Indicates an estimated value. It is used when the data indicates the presence of a target compound below the reporting limit or the presence of a Tentatively Identified Compound (TIC).

N This qualifier indicates presumptive evidence of a compound. This flag is only used for Tentatively Identified Compounds (TIC), where the identification is based on a mass spectral library research. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the "N" qualifier is not used.

P This qualifier is used for target analytes when there is a greater than 40% difference for detected concentrations between the two columns or detectors. The concentration value is reported on Form I and flagged with a "P".

U Indicates the compound was analyzed for but not detected. The number adjacent to the "U" qualifier indicates the reporting limit for that compound. The reporting limit can vary from sample to sample depending on dilution factors or percent moisture adjustments when indicated.

Z Indicates an estimated value between the method detection limit and zero.

Organic Sample ID Qualifiers

These qualifiers may be appended to the Lab Sample ID and/or the Client Sample ID for organic analysis.

DL Diluted reanalysis. Indicates that the results were determined in an analysis of a secondary dilution of a sample or extract. A digit to indicate multiple dilutions of the sample or extract may follow the "DL" suffix. The results of more than one diluted reanalysis may be reported.

MS Matrix spike (may be followed by a digit to indicate multiple matrix spikes within a sample set).

MSD Matrix spike duplicate (may be followed by a digit as noted above in the MS explanation).

R Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. If followed by a digit, indicates multiple reanalysis of the sample at the same dilution.

RE Re-extraction analysis. The sample was re-extracted and reanalyzed. May be followed by a digit to indicate multiple re-extracted analysis of the same sample at the same dilution.

Inorganic Data Qualifiers
Cations

C (Concentration) Qualifier:

B -- The reported value obtained was less than the CRDL, but greater than or equal to the MDL/IDL.

U -- The value was less than the MDL/IDL or was not detected.

Q Qualifier:

E -- The reported value is estimate because of interference.

M -- Duplicate injection precision was not met. (Two analyses of the sample did not agree).

N -- Spiked sample recovery not within control limits.

S -- The reported value was determined by the Method of Standard Additions (MSA).

J -- Post digestion spike for Graphite Furnace AA analyses is out of control limits (85% - 115%), while sample absorbance is less than 50% of spike absorbance.

***** -- Duplicate analysis not within control limits.

+ -- Correlation coefficient for the MSA is less than 0.995.

M (Method) Qualifier:

P -- ICP

A -- Flame AA

F -- Furnace AA

CV -- Cold Vapor

AV -- Automated Cold Vapor

NR -- Analyte was not required

C -- Manual spectrophotometric

RRL (Reliable Reporting Limit):

RRL -- The reliable reporting limit was established to qualify analytical results for which no CRDL was Available, or did not apply. The RRL is a concentration approximately four times the Method Detection Limit (MDL).

Sample ID Cross-reference Table

CAS Lab Sample ID		Client Sample ID	Receive Date	Collect Date	Sample Matrix	Additional Description
FS = Field Sample; LCD = Lab Control Sample Duplicate; LCS = Lab Control Sample; NON = Non-Sample Type (Internal Admin); TB = Trip Blank						
DH005001	FS	1047MW101CL	03/08/06	03/07/06 11:15	Water	
DH005002	FS	1065PZ5ARCL	03/08/06	03/07/06 14:00	Water	
DH005003	FS	610GW103CL	03/08/06	03/07/06 14:45	Water	
DH005004	FS	LF4GW103CL	03/08/06	03/07/06 10:40	Water	
DH005005	FS	LF5GW104CL	03/08/06	03/07/06 13:45	Water	
DH005006	FS	1349MW102CL	03/08/06	03/07/06 15:45	Water	

The above lab sample ID's and cross reference information apply to samples as received by the laboratory. Modifiers to the lab sample ID may be added for internal tracking purposes. Any modified sample ID will be reflected in the appropriate case narrative only.

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Treadwell & Rollo	**Service Request No.:**	DH005
Project:	Presidio of San Francisco	**Date Received:**	3/8/06
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III validation deliverables.

Sample Receipt

Six water samples, plus a trip blank, were received for analysis at Columbia Analytical Services on 3/8/06.

No discrepancies were noted upon initial sample inspection. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

General Chemistry Parameters (160.1, 300.0, 310.1, 353.2, 354.1, 9060

Method Blank Exceptions:
The Total Dissolved Solids (TDS) Method Blank is above the RL of 20 mg/L with a value of 59 mg/L. Due to holding time constraints, the analysis was not rerun.
(NCF #WC-06023)

Lab Control Sample Exceptions:
The laboratory control sample and laboratory control duplicate are outside the Control Limits of 92-106%, with values of 106.3% and 123.3% respectively. Due to holding time constraints, the analysis was not rerun.
(NCF #WC-06023)

Method Reporting Limits:
The following samples required dilution due to the presences of elevated levels of target analytes.

- 1065PZ5ARCL, 610GW103CL and LF4GW103CL for Alkalinity and Chloride.
- 1065PZ5ARCL for Total Organic Carbon.
- 1047MW101CL, 1065PZ5ARCL, and LF4GW103CL for Total Dissolved Solids
- LF4GW103CL and 1349MW102CL for Sulfate.

The reporting limits are adjusted to reflect the dilutions.

Dissolved Metals

Lab Control Sample Exceptions:
The upper control criterion was exceeded for the following analyte in Laboratory Control Sample (LCS) LCSDW-0311: Antimony. The analyte in question was not detected in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Approved by: _____ **Date:** 4-29-06

Diesel Range Organics and Stoddard Solvent by EPA Method 8015B

Continuing Calibration Verification Exceptions:
The upper control criterion was exceeded for the following analytes in the ending Continuing Calibration Verification (CCV) G0406020 analyzed on 4/6/06: TPH-Diesel and Octacosane. The associated samples were reanalyzed on 4/8/06. Similar results were obtained for the ending CCV (failed high). This would indicate a possible matrix effect from the samples that is affecting the CCV result. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

Lab Control Sample Exceptions:
Laboratory Control Sample DWB10313LCS was spiked with Diesel fuel only.

Gasoline Range Organics by EPA Method 8015B

No anomalies associated with the analysis of these samples by the above-mentioned method were observed.

BTEX by EPA Method 8021

No anomalies associated with the analysis of these samples by the above-mentioned method were observed.

Organochlorine Pesticides by EPA Method 8081A

Second Source Exceptions:
The upper control criterion was exceeded for the following analytes in Initial Calibration Verification (ICV) D0313016: Endrin Ketone. The field samples analyzed in this sequence did not contain the analyte in question. Since the apparent problem equates to a potential high bias, the data quality is not affected.

Surrogate Exceptions:
The control criteria were exceeded for the following surrogate in Laboratory Control Sample PWB10329LCS and Control Sample Duplicate PWB10329LCSD: Decachlorobiphenyl. The surrogate outlier is flagged accordingly. All target analyte recoveries were within acceptance criteria for the LCS and LCSD, indicating the analytical batch was in control. No further corrective action was appropriate.

The control criteria were exceeded for the following surrogates in 1349MW102CL and 1349MW102CLRE: Decachlorobiphenyl and Tetrachloro-m-xylene. Since the problem may indicate a potential bias in the analytical batch, all associated field samples were re-extracted and reanalyzed past the recommended hold time. Note the results for the field samples were comparable for both determinations, which indicates the problem with the initial analysis was restricted to the surrogate recovery. Therefore, the results from the original and the reanalysis are reported. The data is flagged to indicate the problem.

The control criteria were exceeded for the following surrogate in sample LF5GW104CL: Decachlorobiphenyl. The sample was re-analyzed and produced similar results. The surrogate outlier is flagged accordingly. The reanalysis is reported. No further corrective action was appropriate.

PCB Aroclors by EPA Method 8082

Surrogate Exceptions:
The control criteria were exceeded for the following surrogate in LCS PWB10313LCS: Decachlorobiphenyl. The associated spike recoveries of target compounds were in control, indicating the analysis was in control. The surrogate outlier is flagged accordingly. The data quality is not affected.

Approved by: _____ **Date:** 4-29-06

The specific project control criteria were exceeded for the following surrogates in sample LF4GW103CL and 1349MW102CL due to suspected matrix interferences: Decachlorobiphenyl and Tetrachloro-m-xylene. Both recoveries were within the in-house statistical control criteria. A re-extraction and reanalysis was performed 15 days past the recommended hold time and produced similar results. Note the results for the field samples were comparable for both determinations, which indicates the problem with the initial analysis was restricted to the surrogate recovery. Both sets of results are reported. An "RE" suffix is appended to the sample name to designate the results from the reanalysis. The data is flagged to indicate the problem.

Volatile Organic Compounds by EPA Method 8260B

No anomalies associated with the analysis of these samples by the above-mentioned method were observed.

Polynuclear Aromatic Hydrocarbons by EPA Method 8310

Continuing Calibration Verification Exceptions:
The upper control criterion was exceeded for the following analytes in Continuing Calibration Verification (CCV) I0325003 and I0325012 for the Fluorescence detector: Fluorene. The field samples analyzed in this sequence did not contain the analyte in question. Fluorene met the acceptance criteria for the UV detector. Since the apparent problem equates to a potential high bias, the data quality is not affected.

Surrogate Exceptions:
The control criteria were exceeded for the following surrogate in sample 1349MW02CL: Terphenyl-d14. Since the problem may indicate a potential bias in the analytical batch, the sample was re-extracted past the recommended holding time and reanalyzed to verify surrogate recovery. Surrogate recovery in the re-extracted sample was also biased low, indicating matrix effects. Therefore, the results from the original analysis are reported.

Matrix Spike Recovery Exceptions:
Insufficient sample volume was received to perform a Matrix Spike/Matrix Spike Duplicate (MS/MSD). A Laboratory Control Sample/Duplicate Laboratory Control Sample (LCS/DLCS) was analyzed in order to report precision data.

Total Sulfide (376.2)

This analytical test was subcontracted to our Kelso facility.

Approved by: _____ **Date:** 4-29-06

CHAIN OF CUSTODY DOCUMENTATION

S260072

Treadwell&Rollo

Environmental and Geotechnical Consultants

555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

DH005

COC No. OP 2098

Page: ___ of ___

Project Name: Presidio of San Francisco

Location: Presidio of San Francisco

Sampled By (Firm and Samplers): BTS / Mike Bell

Recorder (signature required): [signature]

Sent to Laboratory (Name): Columbia ~~Analytics~~ Analytical

PROJECT MANAGER: Joshua Graber

PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

REQUESTED ANALYSES

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M)[1]	TPHfo (8015M)[1]	VOCs (8260) MTBE	General Chemistry[2]	OCPs (8081)	Metals - Dissolved (23, 22, 13, 9, 8, 7, 3, Other) (15)	Metals - Total[3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	Total Sulfide	TPH-SS	TOC	BTEX MTBE			COMMENTS / NOTES
1047MW101CL	3/7/06	1115	1		X		9		1		2	X			X	X		X		X		X	X		X			
1065PZ5ARCL		1400	2		X		3	1	1		5	X	X	X		X		X		X		X		X	X			

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (15 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) A1, 56) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (Other -)

RELINQUISHED BY: [signature]	DATE: 3/7/06 1710	RECEIVED BY: [signature] P. BINS CAS	DATE: 3/07/06 1710
PRINT NAME: P. BINS	FIRM: CAS VIA GSO TIME: 3/7/06 1840	PRINT NAME:	FIRM: TIME:
RELINQUISHED BY:	DATE:	RECEIVED BY: [signature]	DATE: 3/08/06 1010
PRINT NAME:	FIRM: TIME:	PRINT NAME: PHAM	FIRM: CAS TIME:

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

White Copy - Original **Yellow Copy** - Laboratory **Pink Copy** - Field

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5260072

DH005

Treadwell&Rollo

Environmental and Geotechnical Consultants

555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2103

Page: ___ of ___

Project Name: Presidio of San Francisco

Location: Presidio of San Francisco

Sampled By (Firm and Samplers): BTS / Sorrentis /

Recorder (signature required):

Sent to Laboratory (Name): CAS

PROJECT MANAGER: Joshua Graber

PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) MTBE	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other) (14)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	TOC	TPH as sulfide	BTEX/MTBE	PCB's	Diss Metals (23)	OCP's	COMMENTS / NOTES
610GW103CL	3/7/06	1445	3		X		3	1	1		5	X	X	X		X		X		X		X	X	X				
LF4GW103CL	3/7/06	1040	4		X				1		3					X		X		X					X			
LF5GW104CL	3/7/06	1345	5		X		6		1		6	X	X	X	X	X				X	X					X	X	
1349MW02CL	3/7/06	1545	6		X		6		1		6	X	X	X	X	X				X	X				X	X	X	
TB030706 1A	3/7/06	–	7																									on hold

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (14 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) Al (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (Other -)

RELINQUISHED BY:	DATE: 3/07/06 1710	RECEIVED BY: P. BINS CAS	DATE: 3/07/06 1710
PRINT NAME: P. BINS	FIRM: CAS VIA GSO	TIME: 3/07/06 1840	PRINT NAME:	FIRM:	TIME:
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE: 3/08/06
PRINT NAME:	FIRM:	TIME:	PRINT NAME: PHAM	FIRM: CAS	TIME: 1010

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

White Copy - Original **Yellow Copy** - Laboratory **Pink Copy** - Field

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Columbia Analytical Services inc.
An Employee-Owned Company

5090 Caterpillar Road
Redding, CA 96003
Phone: (530) 244-5262
Fax #: (530) 244-4109

COOLER RECEIPT FORM

Project/Client: Presidio S.F. / Treadwell and Rollo Batch No.: D H005

1. Cooler(s)/Sample(s) received on: 03/08/06 Shipped via: GSO

   Shipping Bill # (s): 131715967 10 # of Coolers/Packages 2

2. Radiological Screening by: mp Acceptable Rejected

3. Custody seals on outside of cooler: YES NO N/A

   If yes, where? Front_____ Rear_____ Lt Side_____ Rt Side_____

   Seals intact: YES NO

COOLER/SAMPLE PROCESSING

4. Sample Processing/Tagging by: mme

5. Cooler(s)/Sample(s) Temp's: 8°C 10°C _____ _____ _____

   (or)

   Temp. Blank (if included): _____ _____ _____ _____ _____

6. Type of packing material (circle) Ice Blue Ice Bubble Wrap Bubble Bags Zip Locks Webbing

   Other: trash bags

7. Custody papers properly filled out (ink, signed, dated, released, etc.)? YES NO

8. Containers arrived in good condition (not broken, leaking, etc.)? YES NO

9. Samples received with adequate holding time remaining to conduct analysis? YES NO

10. Container labels complete (i.e. analysis, preservation, date/time, etc.)? YES NO

11. Container labels and tags agree with custody papers? YES NO

12. Correct types of containers used for the tests indicated? YES NO

    a.) Adequate sample received? If not, note on Exception Report. YES NO

13. Containers supplied by: CAS Other

14. Preserved containers received with the appropriate preservative? YES NO N/A

    pH:_____ (or) See pH log.

15. VOA vials free of air bubbles? YES NO N/A

16. Trip Blank preparation date: 3/7/6 CAS Other N/A

17. Volatile Soil samples: Encores or Plugs in Vials

    Freezer or GC/MS Date:_____ Time:_____ N/A

See Exception Report for discrepancies.

Rev. 8/18/2004/ds

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5090 Caterpillar Road
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Phone: 530-244-5227
Fax: 530-244-4109

pH Log

Reference No.: DH005 | By: NCP | Date: 3/8/06

Project/Client: Treadwell & Robbo

Tests: >	Metals	NO3, TOC			8260, 8015
Sample No:	HNO3 pH<2	H2SO4 pH<2	ZnAc2/NaOH pH>9	NaOH pH>12	HCL pH<2
-001	<2	<2			pres per doc
-002	<2	<2 x2			pres per doc
-003	<2	<2 x2			
-004	<2	<2			
-005	<2	<2			
-006	<2	<2			
-007					
-008					
-009					
-010					
-011					
-012					
-013					
-014					
-015					
-016					
-017					
-018					
-019					
-020					

Adjustments by Lab: Shown below by sample number and quantity of preservative in the appropriate column.

Sample No:	HNO3 pH<2 Lot#	H2SO4 pH<2 Lot#	ZnAc2/NaOH pH>9 Lot#	NaOH pH>12 Lot#	HCL pH<2 Lot#
	mL	mL	mL	mL	mL
	mL	mL	mL	mL	mL
	mL	mL	mL	mL	mL
	mL	mL	mL	mL	mL

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BATCH: DH005
CLIENT: Treadwell & Rollo
PROJECT: Presidio SF

SAMPLE RECEIPT EXCEPTION REPORT

Issue Type Legend		
	1) Holding Time	SMO Technician / Date: NGPham 3/8/6
	2) Temperature	Project Chemist / Date: (B) 4-29-06
	3) COC/Label	Client Contact(s): —
	4) Container	
	5) Other	

Item #	Issue Type	DESCRIPTION
1	3/4	COC claims that 9 HCl containers were included for sample 1047MW101CL, but only 6 VOA vials were received w/o any indication of a preservative on the containers, will log in for 7 hold time
2	3/4	COC claims 3 HCl preserved containers were included for sample 1015P25ARCL but there is no indication of HCl preservation in the 3 vials; 3 vials is not adequate for both 8015G and BTEX/MTBE analysis
3	3/4	Sulfide samples were sent directly to Kelso, but not indicated on COC
4	3/4	only 3 VOA vials received for 610GW103CL, which is not adequate for both TPH(gas) and BTEX/MTBE
5	5	a split was taken and preserved for NO3AW analysis

Corrective Actions Taken

1	

GENERAL CHEMISTRY

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : TREADWELL & ROLLO
Project Name : PRESIDIO
Project Number : 2893
Sample Matrix : WATER

Service Request : DH005
Date Collected : 03/07/06
Date Received : 03/08/06

Inorganic Parameters

Sample Name : 1047MW101CL
Lab Code : DH005-001
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Alkalinity as CaCO3, Bicarbonate	mg/L	310.1	10	1	03/17/06 11:00	31	
Alkalinity as CaCO3, Carbonate	mg/L	310.1	10	1	03/17/06 11:00	10	U
Alkalinity as CaCO3, Total	mg/L	310.1	10	1	03/17/06 11:00	31	
Chloride	mg/L	300.0	1	1	03/20/06 21:19	3.4	
Fluoride	mg/L	300.0	1	1	03/20/06 21:19	1.0	U
Nitrate as Nitrogen	mg/L	353.2	0.02	1	03/22/06 16:59	0.111	
Nitrite as Nitrogen	mg/L	354.1	0.02	1	03/09/06 08:45	0.02	U
Solids, Total Dissolved	mg/L	160.1	40	2	03/14/06 17:00	186	
Sulfate	mg/L	300.0	1	1	03/20/06 21:19	2.3	

Report By:C.Skillern

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : TREADWELL & ROLLO
Project Name : PRESIDIO
Project Number : 2893
Sample Matrix : WATER

Service Request : DH005
Date Collected : 03/07/06
Date Received : 03/08/06

Inorganic Parameters

Sample Name : 1065PZ5ARCL
Lab Code : DH005-002
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Alkalinity as CaCO3, Bicarbonate	mg/L	310.1	20	2	03/17/06 11:00	776	
Alkalinity as CaCO3, Carbonate	mg/L	310.1	20	2	03/17/06 11:00	20	U
Alkalinity as CaCO3, Total	mg/L	310.1	20	2	03/17/06 11:00	776	
Carbon, Total Organic	mg/L	SW9060	5	5	03/14/06 11:55	43.5	
Chloride	mg/L	300.0	5	5	03/21/06 02:26	71.1	
Fluoride	mg/L	300.0	1	1	03/20/06 22:03	1.0	U
Nitrate as Nitrogen	mg/L	353.2	0.02	1	03/22/06 16:59	0.02	U
Nitrite as Nitrogen	mg/L	354.1	0.02	1	03/09/06 08:45	0.02	U
Solids, Total Dissolved	mg/L	160.1	100	5	03/14/06 17:00	1170	
Sulfate	mg/L	300.0	1	1	03/20/06 22:03	0.5	

Report By:C.Skillern

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : TREADWELL & ROLLO
Project Name : PRESIDIO
Project Number : 2893
Sample Matrix : WATER

Service Request : DH005
Date Collected : 03/07/06
Date Received : 03/08/06

Inorganic Parameters

Sample Name : 610GW103CL
Lab Code : DH005-003
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Alkalinity as CaCO3, Bicarbonate	mg/L	310.1	20	2	03/17/06 11:00	398	
Alkalinity as CaCO3, Carbonate	mg/L	310.1	20	2	03/17/06 11:00	20	U
Alkalinity as CaCO3, Total	mg/L	310.1	20	2	03/17/06 11:00	398	
Carbon, Total Organic	mg/L	SW9060	1	1	03/14/06 12:18	4.8	
Chloride	mg/L	300.0	5	5	03/21/06 03:10	54.5	
Fluoride	mg/L	300.0	1	1	03/20/06 22:16	1.0	U
Nitrate as Nitrogen	mg/L	353.2	0.02	1	03/22/06 16:59	0.02	U
Nitrite as Nitrogen	mg/L	354.1	0.02	1	03/09/06 08:45	0.02	U
Solids, Total Dissolved	mg/L	160.1	20	1	03/14/06 17:00	698	
Sulfate	mg/L	300.0	1	1	03/20/06 22:18	75.1	

Report By:C.Skillern

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : TREADWELL & ROLLO
Project Name : PRESIDIO
Project Number : 2893
Sample Matrix : WATER

Service Request : DH005
Date Collected : 03/07/06
Date Received : 03/08/06

Inorganic Parameters

Sample Name : LF4GW103CL
Lab Code : DH005-004
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Alkalinity as CaCO3, Bicarbonate	mg/L	310.1	40	4	03/17/06 11:00	1190	
Alkalinity as CaCO3, Carbonate	mg/L	310.1	40	4	03/17/06 11:00	40	U
Alkalinity as CaCO3, Total	mg/L	310.1	40	4	03/17/06 11:00	1190	
Chloride	mg/L	300.0	20	20	03/25/06 00:26	601	
Fluoride	mg/L	300.0	1	1	03/20/06 22:32	1.0	U
Nitrate as Nitrogen	mg/L	353.2	0.02	1	03/22/06 16:59	0.046	
Nitrite as Nitrogen	mg/L	354.1	0.02	1	03/09/06 08:45	0.02	U
Solids, Total Dissolved	mg/L	160.1	40	2	03/14/06 17:00	2730	
Sulfate	mg/L	300.0	10	10	03/22/06 17:39	428	

Report By:C.Skillern

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : TREADWELL & ROLLO
Project Name : PRESIDIO
Project Number : 2893
Sample Matrix : WATER

Service Request : DH005
Date Collected : 03/07/06
Date Received : 03/08/06

Inorganic Parameters

Sample Name : LF5GW104CL
Lab Code : DH005-005
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Alkalinity as CaCO3, Bicarbonate	mg/L	310.1	20	2	03/17/06 11:00	342	
Alkalinity as CaCO3, Carbonate	mg/L	310.1	20	2	03/17/06 11:00	20	U
Alkalinity as CaCO3, Total	mg/L	310.1	20	2	03/17/06 11:00	342	
Chloride	mg/L	300.0	10	10	03/21/06 17:54	292	
Fluoride	mg/L	300.0	1	1	03/20/06 22:47	1.0	U
Nitrate as Nitrogen	mg/L	353.2	0.2	10	03/22/06 16:59	6.43	
Nitrite as Nitrogen	mg/L	354.1	0.02	1	03/09/06 08:45	0.02	U
Solids, Total Dissolved	mg/L	160.1	20	1	03/14/06 17:00	982	
Sulfate	mg/L	300.0	1	1	03/20/06 22:47	73.3	

Report By:C.Skillern

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : TREADWELL & ROLLO
Project Name : PRESIDIO
Project Number : 2893
Sample Matrix : WATER

Service Request : DH005
Date Collected : 03/07/06
Date Received : 03/08/06

Inorganic Parameters

Sample Name : 1349MW102CL
Lab Code : DH005-006
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Alkalinity as CaCO3, Bicarbonate	mg/L	310.1	40	4	03/17/06 11:00	416	
Alkalinity as CaCO3, Carbonate	mg/L	310.1	40	4	03/17/06 11:00	40	U
Alkalinity as CaCO3, Total	mg/L	310.1	40	4	03/17/06 11:00	416	
Chloride	mg/L	300.0	10	10	03/21/06 18:09	220	
Fluoride	mg/L	300.0	1	1	03/20/06 23:01	1.0	U
Nitrate as Nitrogen	mg/L	353.2	0.1	5	03/22/06 16:59	2.33	
Nitrite as Nitrogen	mg/L	354.1	0.02	1	03/09/06 08:45	0.025	
Solids, Total Dissolved	mg/L	160.1	20	1	03/14/06 17:00	1070	
Sulfate	mg/L	300.0	5	5	03/21/06 03:54	156	

Report By:C.Skillern

QC Summary

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Service Request: DH005
Client : TREADWELL & ROLLO
Project : PRESIDIO

Initial and Continuing Calibration Verification
Form II

Analyte	Analysis Method	Date Analyzed	Units	Initial Calibration			Continuing Calibration						
								#1		#2		#3	
				True	Result	%R	True	Result	%R	Result	%R	Result	%R
Alkalinity	310.1	03/17/06	units	7.00	7.07	101							
Carbon, Tot. Org.	SW9060	03/14/06	mg/L	15.00	14.02	93	20.00	18.23	91		-		-
Chloride	300.0	03/20/06	mg/L	5.00	4.83	97	4.00	4.03	101	4.09	102		-
Chloride	300.0	03/21/06	mg/L	5.00	4.81	96	4.00	3.95	99				
Chloride	300.0	03/24/06	mg/L	5.00	4.86	97	4.00	4.25	106	4.25	106	4.26	107
Fluoride	300.0	03/20/06	mg/L	2.50	2.57	103	2.00	2.09	105	2.12	106		-
Nitrate	353.2	03/22/06	mg/L	0.500	0.504	101	0.800	0.803	100	0.810	101	0.806	101
Nitrite	354.1	03/09/06	mg/L	0.150	0.150	100	0.100	0.101	101		-		-
Solids, Tot. Diss.	160.1	03/14/06	mg/L										
Sulfate	300.0	03/20/06	mg/L	10.00	9.78	98	8.00	8.02	100	8.17	102		-
Sulfate	300.0	03/21/06	mg/L	10.00	9.78	98	8.00	8.01	100		-		-

Control Limits are 90-110% unless noted.

Remarks

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Service Request: DH005
Client : TREADWELL & ROLLO
Project : PRESIDIO

Initial and Continuing Calibration Blanks
Form III

Analyte	Analysis Method	Date Analyzed	Units	Initial Calibration		Continuing Calibration #1		Continuing Calibration #2		Continuing Calibration #3		Method Blank units mg/L	
				Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.
Alkalinity	310.1	03/17/06	mg/L	10	U							10	U
Carbon, Tot. Org.	SW9060	03/14/06	mg/L	0.1	U	0.1	U					0.1	U
Chloride	300.0	03/20/06	mg/L	1.0	U	1.0	U	1.0	U			1.0	U
Chloride	300.0	03/21/06	mg/L	1.0	U	1.0	U					1.0	U
Chloride	300.0	03/24/06	mg/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Fluoride	300.0	03/20/06	mg/L	1.0	U	1.0	U	1.0	U			1.0	U
Nitrate	353.2	03/22/06	mg/L	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Nitrite	354.1	03/09/06	mg/L	0.02	U	0.02	U					0.02	U
Solids, Tot. Diss.	160.1	03/14/06	mg/L									59	
Sulfate	300.0	03/20/06	mg/L	1.0	U	1.0	U	1.0	U			1.0	U
Sulfate	300.0	03/21/06	mg/L	1.0	U	1.0	U					1.0	U

Remarks

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Service Request: DH005
Client : TREADWELL & ROLLO
Project : PRESIDIO

Laboratory Control Sample
Form VII

Lab No.	LCS			Client Sample ID:			LCS						
Analyte	Analysis Method	Date Analyzed	Units		LCS TV		LCS Result	%R	LCSD Result	% R	Control Limit	RPD	Control Limit
Alkalinity	310.1	03/17/06	mg/L		2,500		2,540	102	2,540	102	95-106	0.0	20
Carbon, Tot. Org.	SW9060	03/14/06	mg/L		15.00		14.02	93	13.78	92	84-111	1.7	20
Chloride	300.0	03/20/06	mg/L		5.00		1.80	36	4.90	98	90-110	92.5	20
Chloride	300.0	03/21/06	mg/L		5.00		4.81	96	4.68	94	90-110	2.7	20
Chloride	300.0	03/24/06	mg/L		5.00		4.86	97	4.99	100	90-110	2.6	20
Fluoride	300.0	03/20/06	mg/L		2.50		2.60	104	2.60	104	90-110	0.0	20
Nitrate	353.2	03/22/06	mg/L		0.50		0.51	101	0.51	101	90-110	0.0	20
Nitrite	354.1	03/09/06	mg/L		0.15		0.15	100	0.16	109	90-110	8.3	20
Solids, Tot. Diss.	160.1	03/14/06	mg/L		575		611	106	709	123	84-120	14.8	20
Sulfate	300.0	03/20/06	mg/L		10.00		9.80	98	9.90	99	90-110	1.0	20
Sulfate	300.0	03/21/06	mg/L		10.00		9.78	98	9.50	95	90-110	2.9	20

Remarks

Support Documentation

Alkalinity

Page: 1031

Analyst: am/LS
Analysis Date: 3/17/06 @ 1100
N H_2SO_4: 0.02

Method: EPA 310.1 / SM2320
Test Codes: ALK, ALKB, ALKC, ALKP, HCO3, CO3
Reporting Limit: 10 mg/L
Detection Limit : 2 mg/L

Sample Reference No.	mls spl.	pH	mls H2SO4 to pH 8.3 Initial	Final	Vol.	mls H2SO4 to pH 4.5 Initial	Final	Vol.	AlkC CO3 mg/L	AlkB HCO3 mg/L	Alk Total mg/L	units	True Value	%RPD %R	
CS1 pH 4.00		4.00											4.00	100%	
CS2 pH 10.00		10.07											10.00	100.7%	
ICVS pH 7.00		7.07											7.00	101%	
MB	100	5.78				6.0	6.2	.2			2.0<10	mg/L			
LCS Na2CO3	5	10.71				6.2	18.9	12.7			2540	mg/L	2500	101.6%	>000%
IDC-1/LCSD	5					32.8	45.5	12.7			2540		2500	101.6%	
IDC-2	5					8.6	21.2	12.6			2520		2500	100.8%	
IDC-3	5					21.2	33.9	12.7			2540		2500	101.6%	
IDC-4	5					33.9	46.4	12.5			2500		2500	100%	
CCVS		7.06											7.00	100.9	
DH005-1G	100	7.49				7.4	10.5	3.1	<2	31	31				
DH005-1H 2G 3/11/06	50	7.75				9.8	48.6	38.8	<24	776	776				
DH005-3G 3/11/06	50	7.99				7.1	27.0	19.9	<24	398	398				
DH005-4G	25	7.58				~~27.0~~ 27.0/27.8	50/13.1	29.7	<28	1188	1188				
DH005-5G	50	7.76				13.7	30.8	17.1	<24	342	342				
DH005-6G	25	6.85				30.8	41.2	10.4	<28	416	416				
DH006-1N	50	7.32				7.0	23.8	16.8			336				
~~CCV pH 7.00~~ DH006-2N	25	7.54				23.8	43.0	19.2			768		~~7.00~~ LS	3/17/06	
DH006-3N	25	6.93				30.8	42.3	11.5			460				
CCV		6.96											7.00	99.4%	
DH009-1G	50	7.11				6.2	20.7	14.5	<24	290	290				
-2G	100	7.15				5.5	13.0	7.5	<2	75	75				
-3G		8.00				13.0	26.1	13.1	<2	131	131				
-4G	50	7.09				26.1	48.9	22.8	<24	456	456				
DH011-1N	50	6.98				6.7	24.1	17.4			348				
-1MS N		8.80				7.0	36.9	29.9			598		250	100.0	>0.3%
LS 3/17/06 -1MSD N		8.95				5.9	35.7	29.8			~~59.6~~ 596		250	99.2	RPT
-2N	25	6.95				7.0	13.2	6.2			248				
-3N	50	6.75				13.3	18.7	5.4			108				
LS 3/17/06 -4N	~~100~~ 50	6.64				18.7	39.6	20.9			418				
CCV pH 7.00		6.95											7.00	99.3%	

Form Alk-Mstr.WK1 Spike (ID, Conc. Vol.): G37186, 2500 mg/L, 5.00 ml Updated 03/03

Detailed Analysis Report Print Date/Time: 2006/03/13 12:05:18

Sample ID: INSTRUMENT BLANK
Method: Blank TC Range 2
Cal. Curve: 050808ICAL
Operator ID: MMCCULLOUGH

Mode: TC
Filename: 03130931
Timestamp: 03/13/2006 09:46
Sample Type: Blank TC Range 2

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			385610	-2.414	-1.919	98
2			153876	-2.348	-1.849	84
3			91548	-2.410	-1.910	77
4			83704	-2.420	-1.923	76
5			82136	-2.414	-1.916	77

<<<Statistics>>> Mean: 159375 Std Dev: 129909 RSD: 81.51

Sample ID: Zero Standard
Method: TOC RANGE 01-50 PPM CS
Cal. Curve: 060313
Operator ID: MMCCULLOUGH

Mode: TOC
Filename: 03130931
Timestamp: 03/13/2006 10:06
Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			177151	-2.409	-1.417	76
2			146905	-2.438	-1.445	74
3			154992	-2.413	-1.415	74

<<<Statistics>>> Mean: 159683 Std Dev: 15659 RSD: 9.81

Sample ID: 1.0 ppm
Method: TOC RANGE 01-50 PPM CS
Cal. Curve: 060313
Operator ID: MMCCULLOUGH

Mode: TOC
Filename: 03130931
Timestamp: 03/13/2006 10:27
Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			719703	-2.442	-1.458	92
2			708304	-2.427	-1.429	90
3			709074	-2.469	-1.478	90

<<<Statistics>>> Mean: 712360 Std Dev: 6371 RSD: 0.89

Sample ID: 5.0 ppm
Method: TOC RANGE 01-50 PPM CS
Cal. Curve: 060313
Operator ID: MMCCULLOUGH

Mode: TOC
Filename: 03130931
Timestamp: 03/13/2006 10:49
Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			3023618	-2.484	-1.486	116
2			3041162	-2.402	-1.404	114
3			3027912	-2.381	-1.387	114

<<<Statistics>>> Mean: 3030897 Std Dev: 9145 RSD: 0.30

Sample ID: 10 ppm
Method: TOC RANGE 01-50 PPM CS

Mode: TOC
Filename: 03130931

Cal. Curve: 060313 Timestamp: 03/13/2006 11:12
Operator ID: MMCCULLOUGH Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			5983776	-2.445	-1.445	134
2			6002291	-2.437	-1.438	132
3			6006188	-2.413	-1.423	134

<<<Statistics>>> Mean: 5997418 Std Dev: 11974 RSD: 0.20

Sample ID: 25 ppm Mode: TOC
Method: TOC RANGE 01-50 PPM CS Filename: 03130931
Cal. Curve: 060313 Timestamp: 03/13/2006 11:37
Operator ID: MMCCULLOUGH Sample Type: TOC Standard

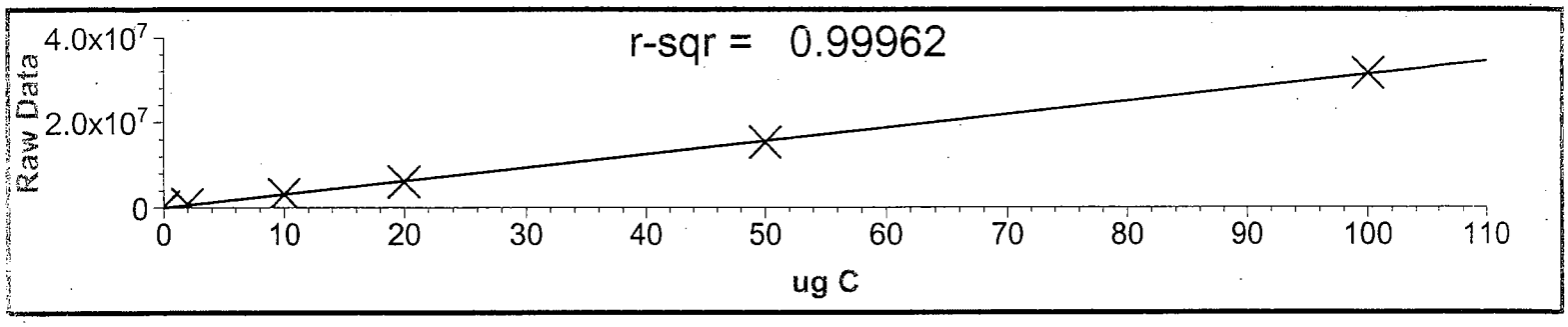
Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			15345899	-2.411	-1.411	170
2			15264122	-2.381	-1.383	178
3			15297076	-2.369	-1.371	178

<<<Statistics>>> Mean: 15302365 Std Dev: 41144 RSD: 0.27

Sample ID: 50 ppm Mode: TOC
Method: TOC RANGE 01-50 PPM CS Filename: 03130931
Cal. Curve: 060313 Timestamp: 03/13/2006 12:04
Operator ID: MMCCULLOUGH Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			31416004	-2.370	-1.372	228
2			31622570	-2.221	-1.222	219
3			31608184	-2.314	-1.316	219

<<<Statistics>>> Mean: 31548920 Std Dev: 115333 RSD: 0.37


r-sqr = 0.99962
Raw Data
4.0x10^7
2.0x10^7
0
0
10
20
30
40
50
60
70
80
90
100
110
ug C

Calibration Report Print Date/Time: 2006/03/13 12:32:03

Cal. Curve ID: 060313
Created: 03/13/2006 12:31
Calibration Factor (m): 3.141e+05
Y Intercept (b): -67921
r-squared: 0.99962

Standard ID	Y Raw Data	X Expected ug C	Measured ug C	Message	Date & Time
Zero Standard	159683	0.000	0.725		03/13/2006 10:06
1.0 ppm	712360	2.000	2.484		03/13/2006 10:27
5.0 ppm	3030897	10.000	9.867		03/13/2006 10:49
10 ppm	5997418	20.000	19.313		03/13/2006 11:12
25 ppm	15302365	50.000	48.940		03/13/2006 11:37
50 ppm	31548918	100.000	100.671		03/13/2006 12:04

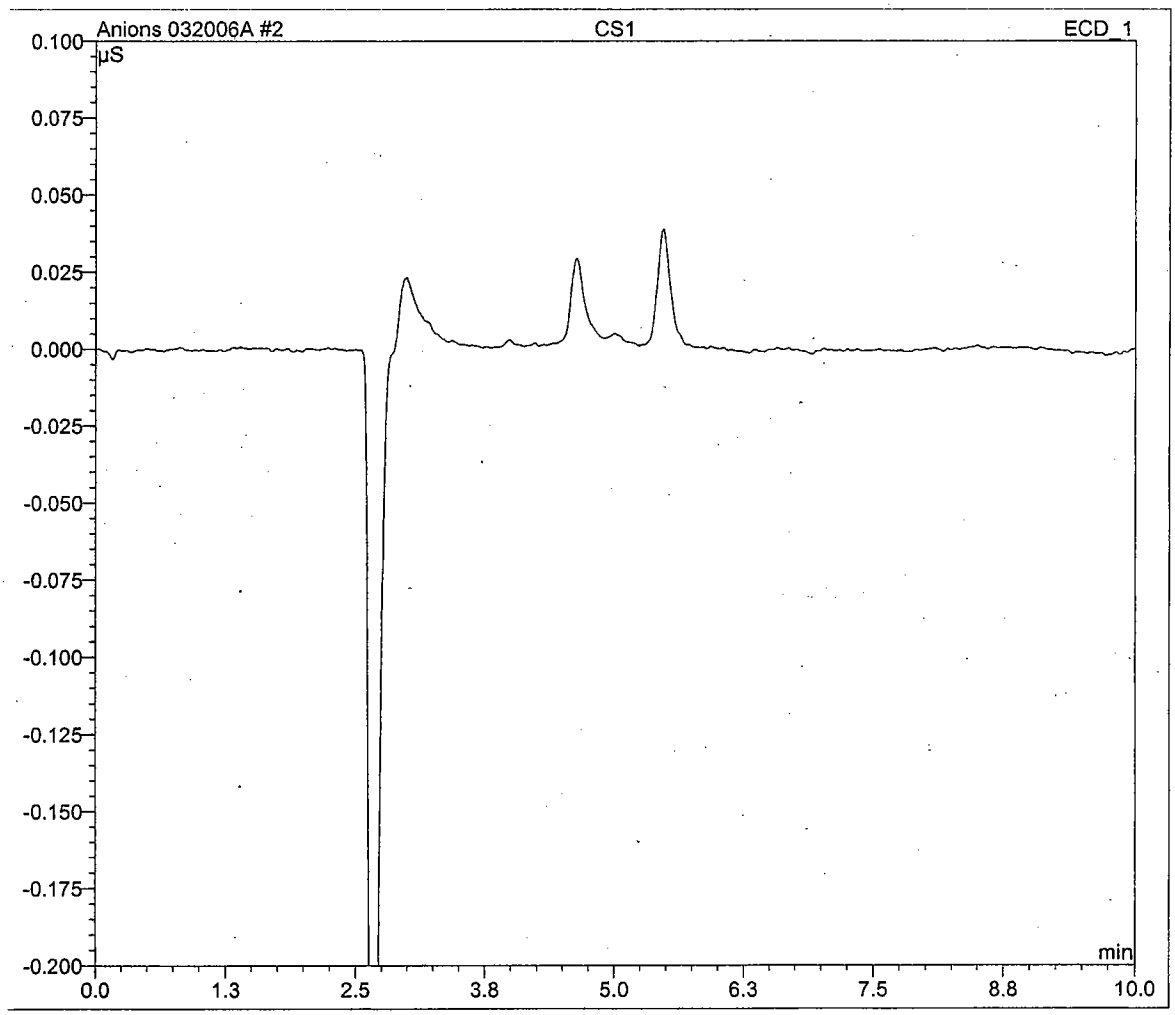
TOC (Methods E415.1/SW9060)

TOC060314-09	Sample ID	MDL	RL	DL	Value	Result (ppm)	F	Rec	
3/14/06 9:14	ICVS/LCS	0.1	1	1	14.021	14		93.5%	
3/14/06 9:36	ICB/MB	0.1	1	1	0.016	0.1	U		
3/14/06 9:57	LCSD	0.1	1	1	13.779	13.8		91.9%	1.4
3/14/06 10:20	DG989005	0.1	1	1	1.533	1.5			
3/14/06 10:43	DG989005 MS	0.1	1	1	19.748	19.7		91.1%	
3/14/06 11:09	DG989005 MSD	0.1	1	1	20.205	20.2		93.4%	2.5% RPD
3/14/06 11:33	DG989006	0.1	1	1	1.468	1.5			
3/14/06 11:55	DH005002 5X	0.5	5	5	8.703	43.5			
3/14/06 12:18	DH005003	0.1	1	1	4.809	4.8			
3/14/06 12:41	DH009004	0.1	1	1	9.800	9.8			
3/14/06 13:05	DG998013	0.1	1	1	1.781	1.8			
3/14/06 13:28	CCVS	0.1	1	1	18.230	18.2		91.2%	
3/14/06 13:50	CCB	0.1	1	1	0.046	0.1	U		
3/14/06 14:19	DG998015 250X	25	250	250	10.912	2730			
3/14/06 15:05	DG998017 10X	1	10	10	9.856	98.6			
3/14/06 15:52	DG998019 100X	10	100	100	9.110	911			
3/14/06 16:38	DG998021 50X	5	50	50	8.111	406			
3/14/06 17:24	DG998023 250X	25	250	250	9.843	2460			
3/14/06 18:11	DH998025 200X	20	200	200	9.253	1850			
3/14/06 18:50	DG998028	0.1	1	1	0.417	0.4	J		
3/14/06 19:21	DG998029 200X	20	200	200	9.685	1940			
3/14/06 20:02	DH012001	0.1	1	1	1.411	1.4			
3/14/06 20:37	DO600016-1	0.1	1	1	3.553	3.6			
3/14/06 21:23	DO600016-002	0.1	1	1	6.993	7			
3/14/06 22:02	CCVS	0.1	1	1	0.337	0.3	J	1.7%	
3/14/06 22:29	CCB	0.1	1	1	1.060	1.1			

Analyst/Date: [illegible] 3/14/06 Reviewer/Date:

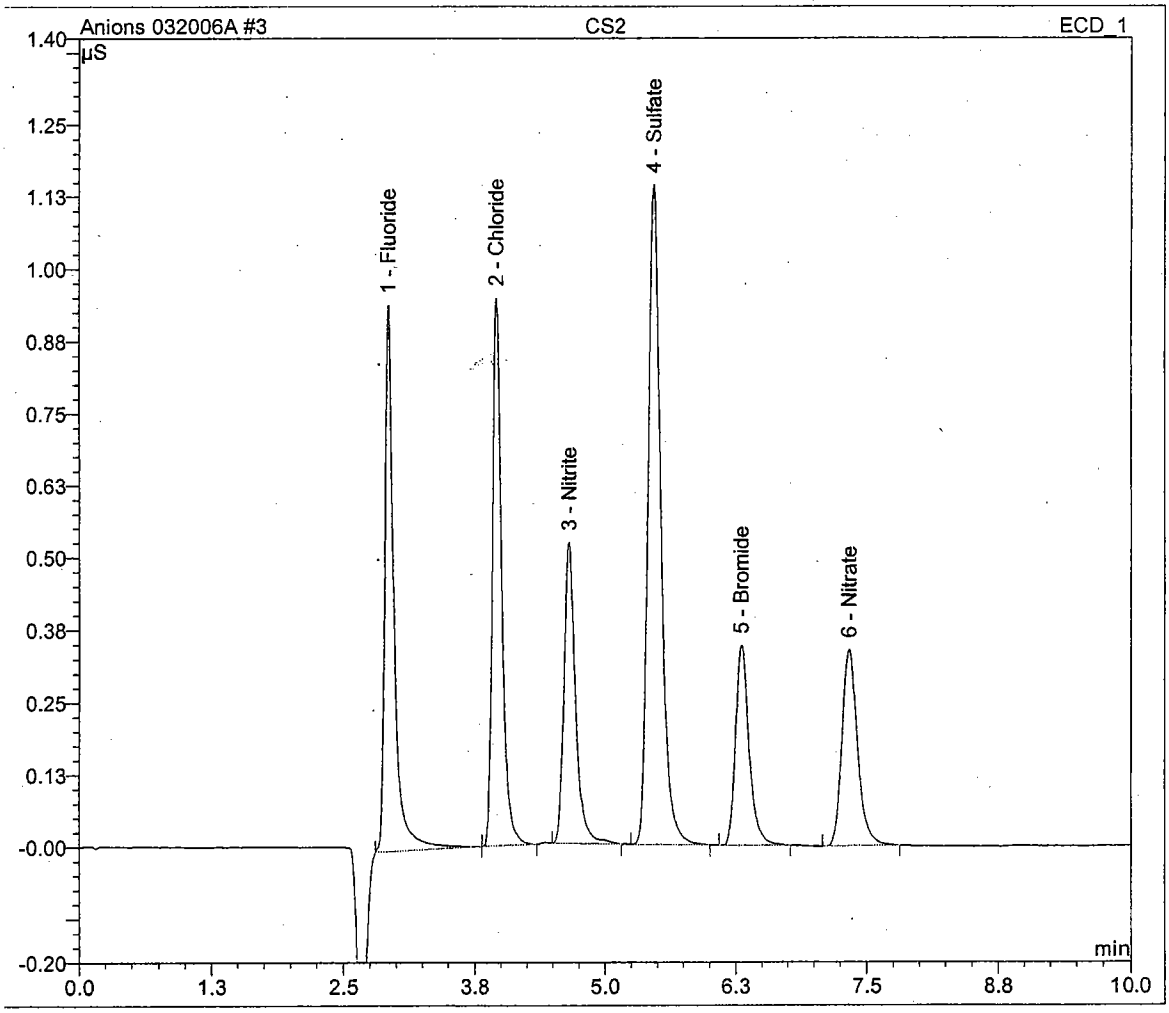
Sample Name:	**CS1**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.03.06 18:24**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
			TOTAL:	0.00	0.00	0.00



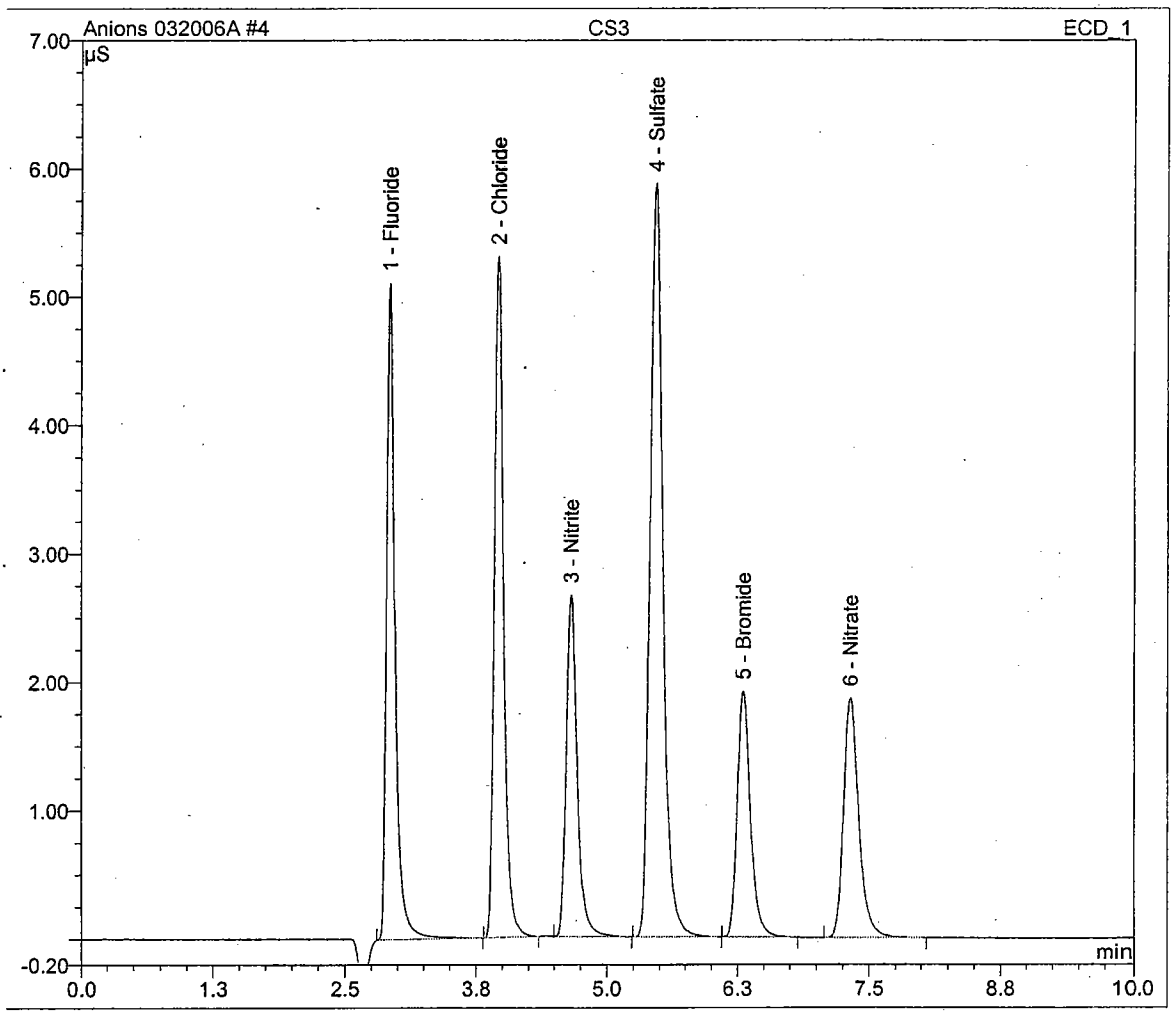
Sample Name:	**CS2**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.03.06 18:39**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	2.92	Fluoride	BMB	0.097	0.946	-0.0385
2	3.96	Chloride	BMB	0.098	0.948	0.3706
3	4.65	Nitrite	BMB	0.067	0.520	0.0414
4	5.46	Sulfate	BMB	0.164	1.142	0.8005
5	6.30	Bromide	BMB	0.052	0.345	0.6497
6	7.33	Nitrate	BMB	0.058	0.339	0.1308
			TOTAL:	0.54	4.24	1.95



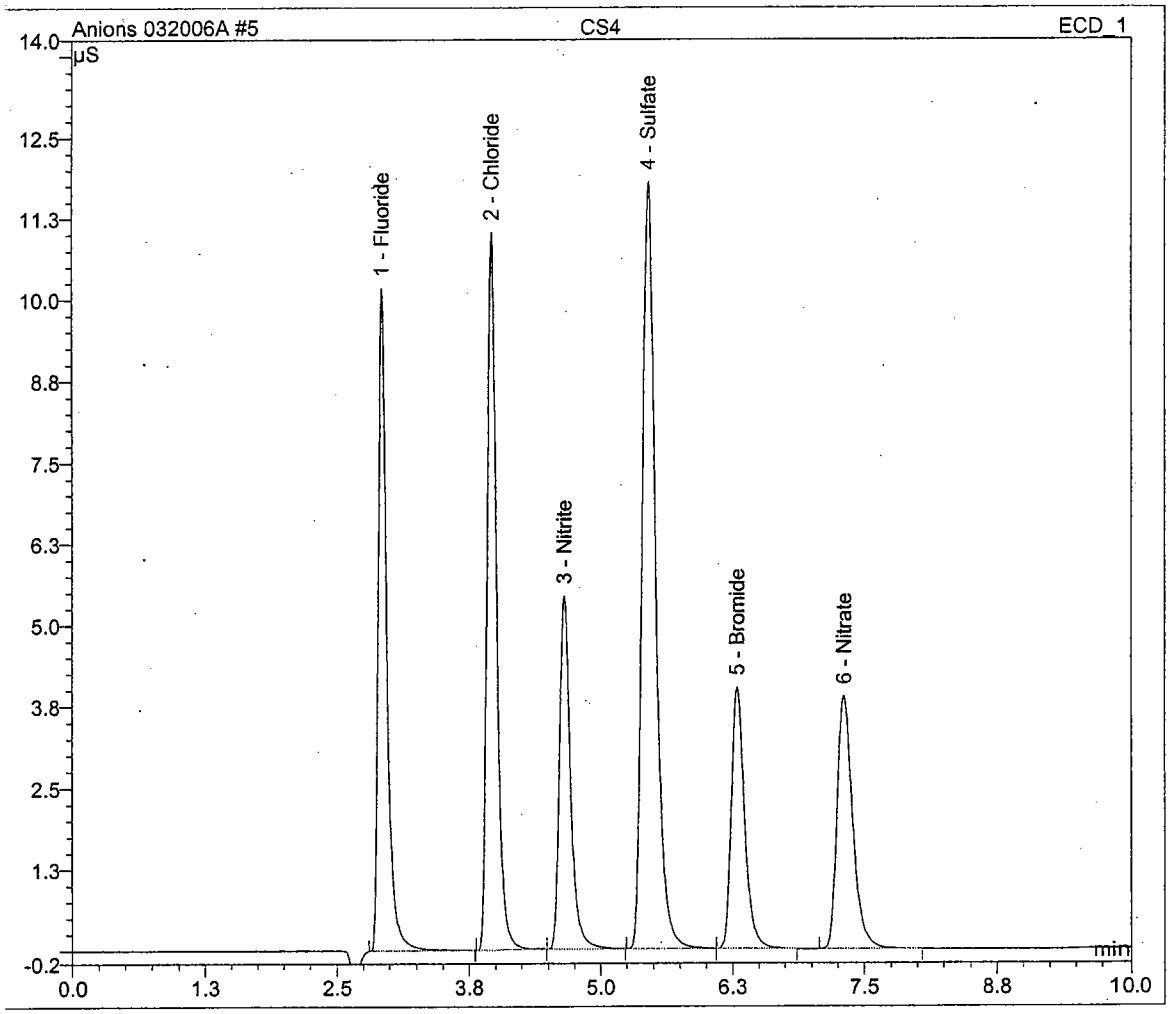
Sample Name:	**CS3**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.03.06 18:53**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	2.93	Fluoride	BMB	0.480	5.111	0.8754
2	3.96	Chloride	BMB	0.540	5.302	1.8713
3	4.66	Nitrite	BMB	0.322	2.656	0.4432
4	5.46	Sulfate	BMB	0.839	5.869	3.9027
5	6.30	Bromide	BMB	0.277	1.909	2.4065
6	7.32	Nitrate	BMB	0.318	1.865	0.4837
			TOTAL:	2.77	22.71	9.98



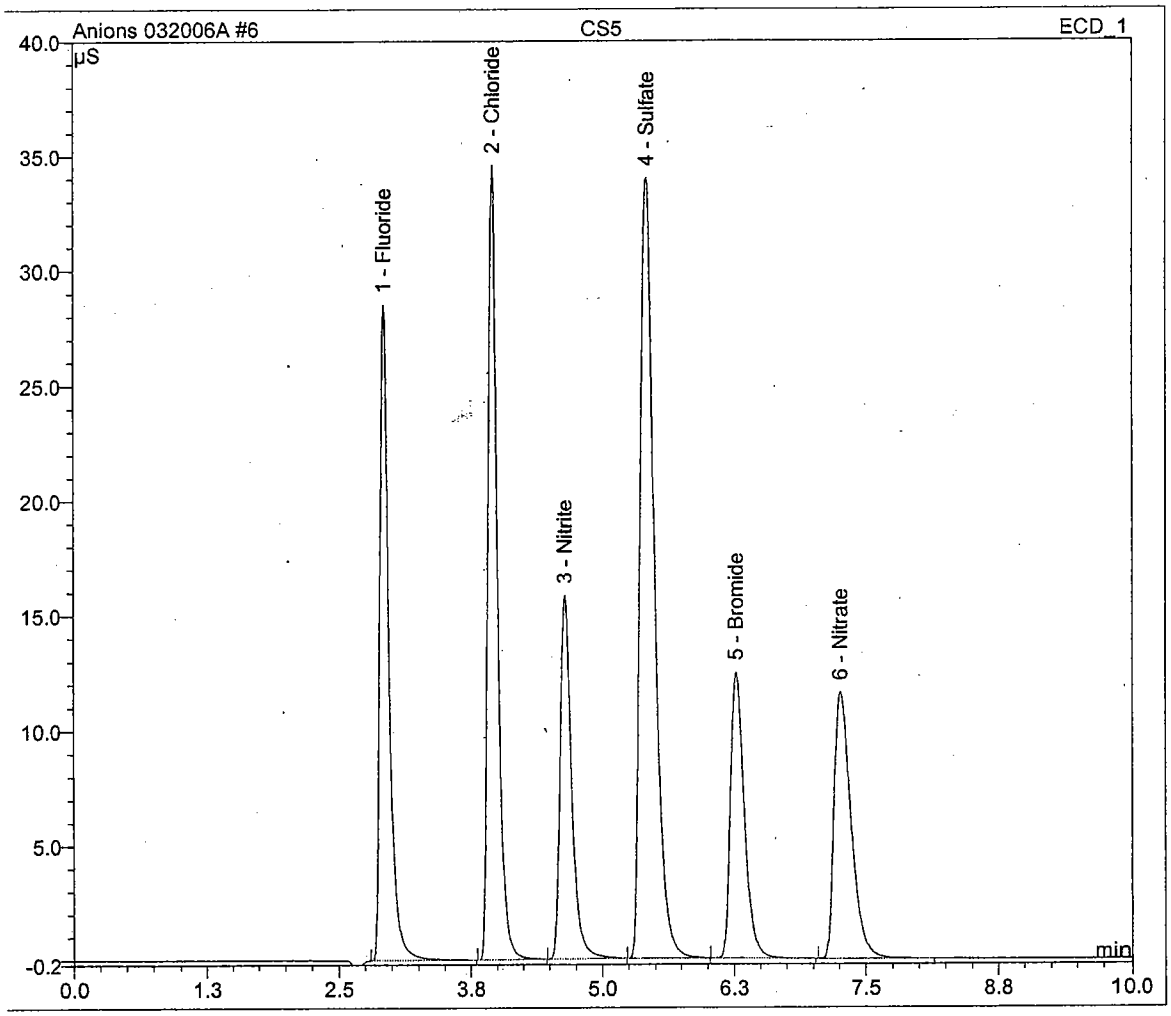
Sample Name:	**CS4**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.03.06 19:08**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	2.93	Fluoride	BMB	0.964	10.179	2.0302
2	3.96	Chloride	BMB	1.131	11.029	3.8792
3	4.65	Nitrite	BMB	0.664	5.425	0.9828
4	5.45	Sulfate	BMB	1.713	11.786	7.9236
5	6.29	Bromide	BMB	0.582	4.005	4.7876
6	7.31	Nitrate	BMB	0.666	3.880	0.9577
			TOTAL:	5.72	46.30	20.56



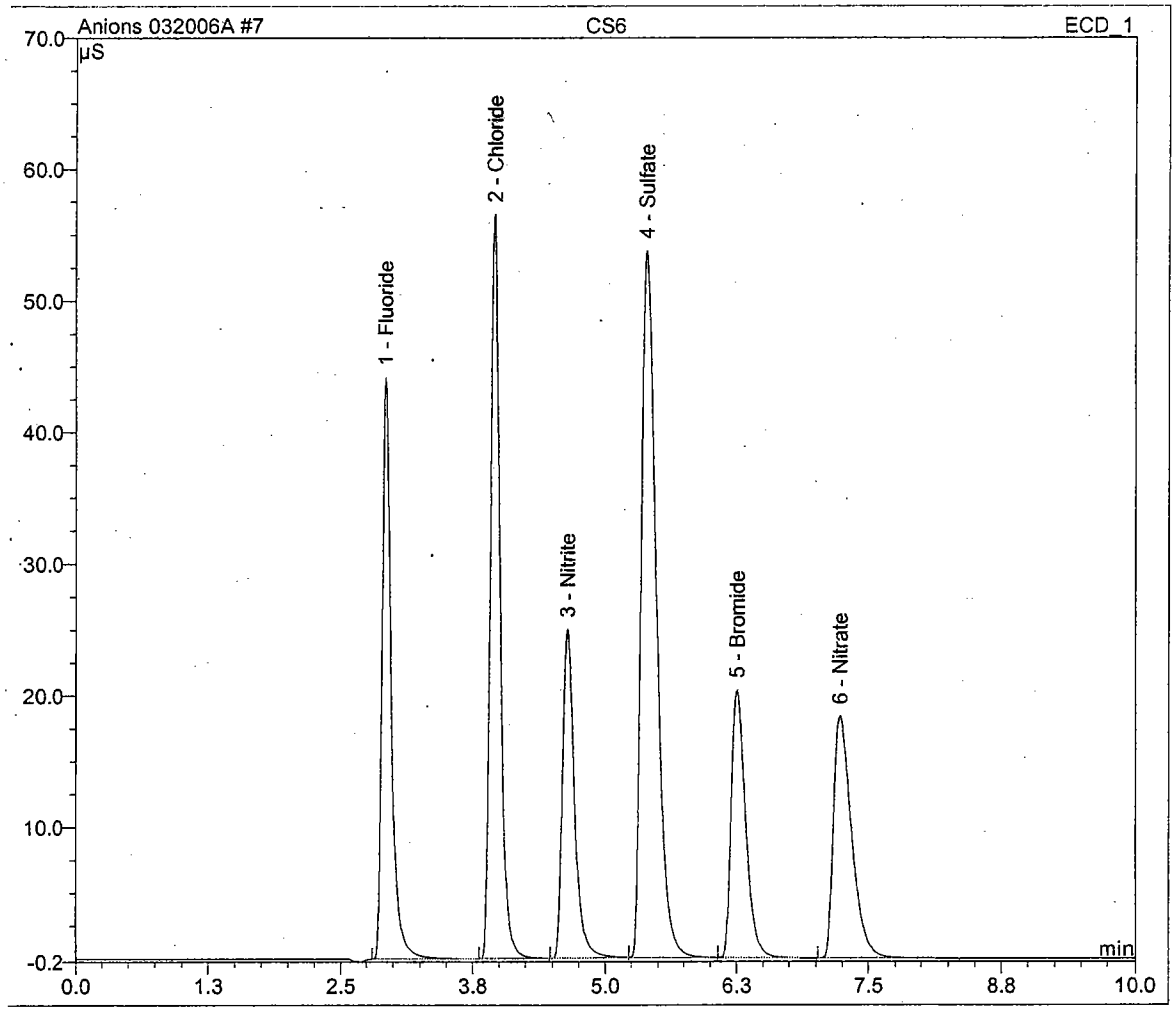
Sample Name:	**CS5**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.03.06 19:22**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	2.93	Fluoride	BMB	2.831	28.522	6.4828
2	3.95	Chloride	BMB	3.591	34.578	12.2324
3	4.65	Nitrite	BMB	2.033	15.806	3.1430
4	5.42	Sulfate	BMB	5.222	33.960	24.0574
5	6.27	Bromide	BMB	1.875	12.439	14.8613
6	7.26	Nitrate	BMB	2.142	11.605	2.9672
		TOTAL:		17.69	136.91	63.74



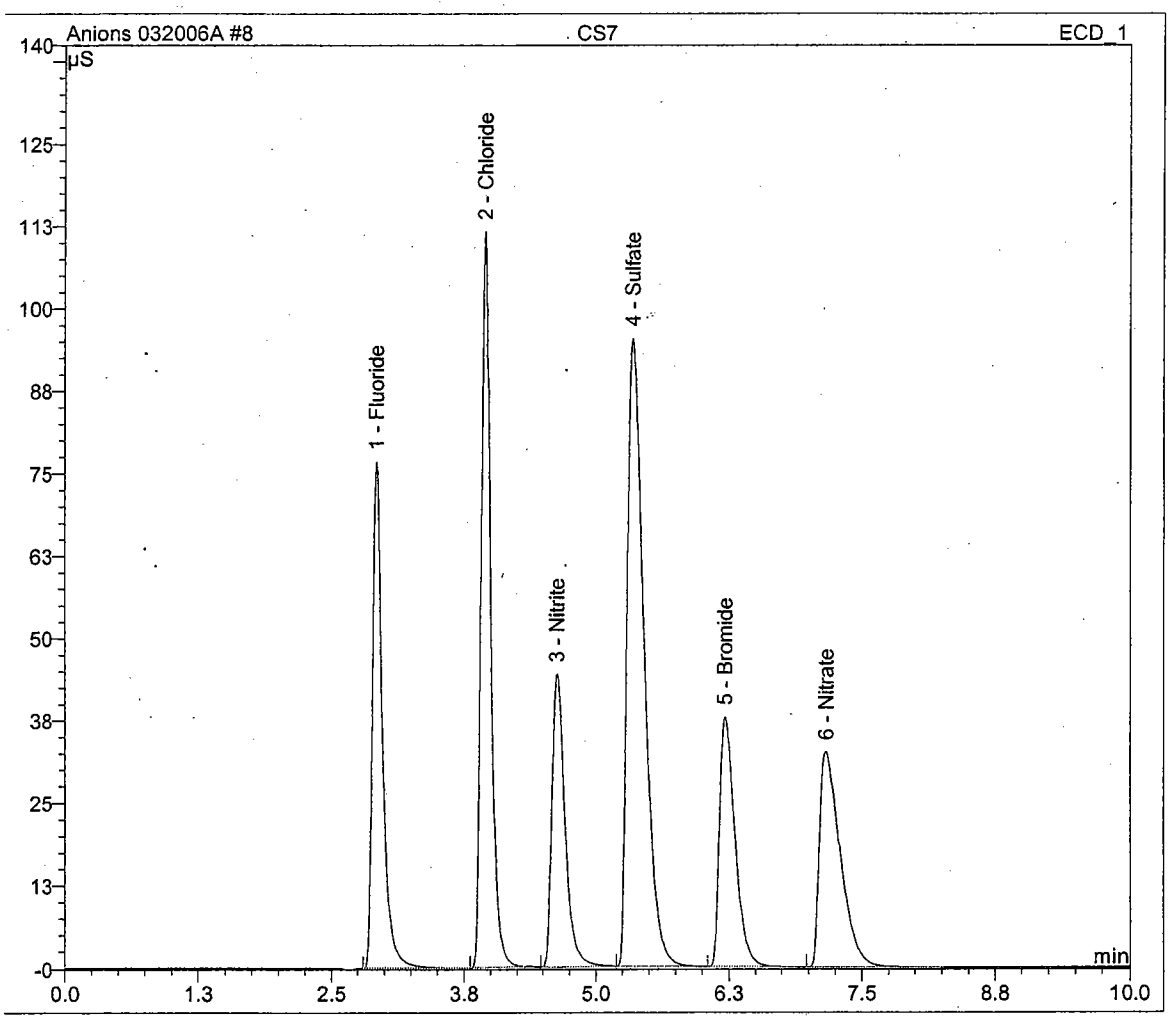
Sample Name:	**CS6**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.03.06 19:37**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	2.93	Fluoride	BMB	4.523	44.174	10.5168
2	3.95	Chloride	BMB	5.914	56.545	20.1171
3	4.64	Nitrite	BMB	3.326	24.960	5.1828
4	5.39	Sulfate	BMB	8.722	53.702	40.1485
5	6.25	Bromide	BMB	3.171	20.344	24.9627
6	7.23	Nitrate	BMB	3.628	18.402	4.9894
			TOTAL:	29.28	218.13	105.92



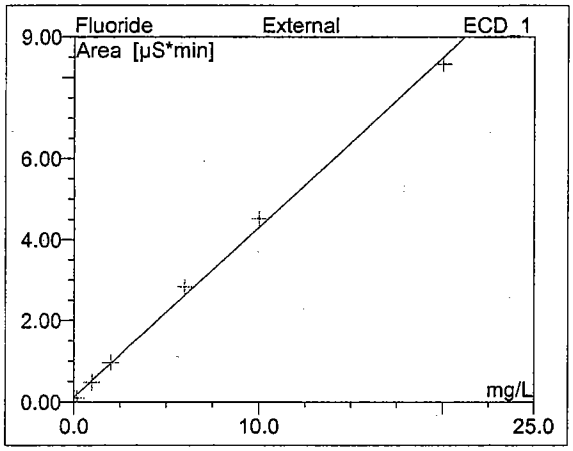
Sample Name:	**CS7**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.03.06 19:52**	*Run Time:*	**12.00**

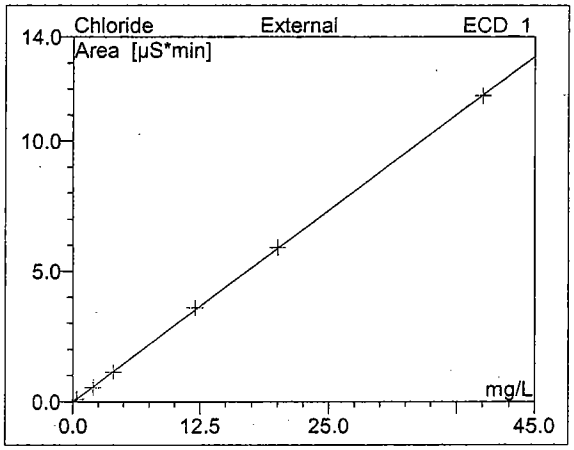
No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	2.93	Fluoride	BMB	8.333	76.796	19.6024
2	3.95	Chloride	BMB	11.737	111.640	39.8906
3	4.63	Nitrite	BMB	6.297	44.436	9.8708
4	5.34	Sulfate	BMB	17.371	95.282	79.9210
5	6.21	Bromide	BMB	6.394	37.867	50.0847
6	7.16	Nitrate	BMB	7.325	32.625	10.0199
			TOTAL:	57.46	398.65	209.39

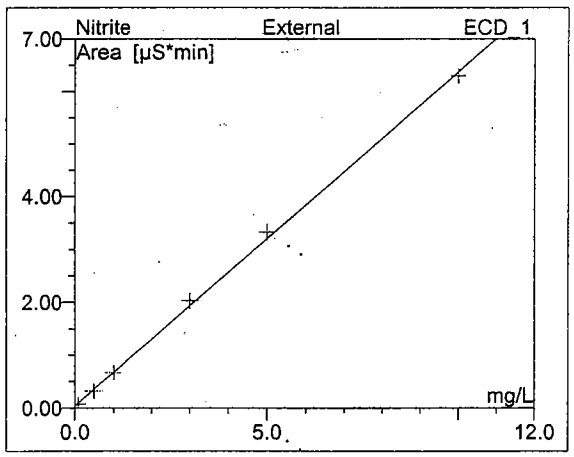


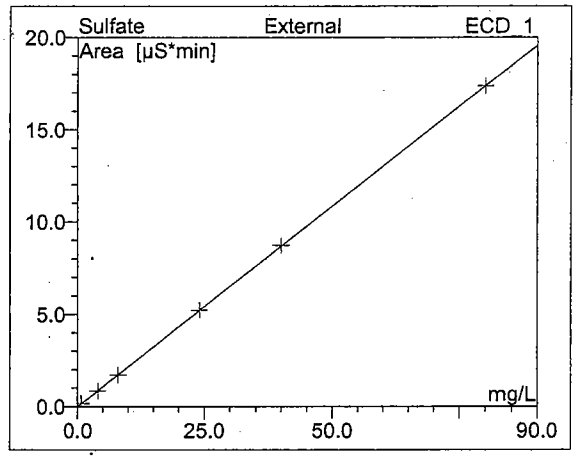
Calibration Batch Report

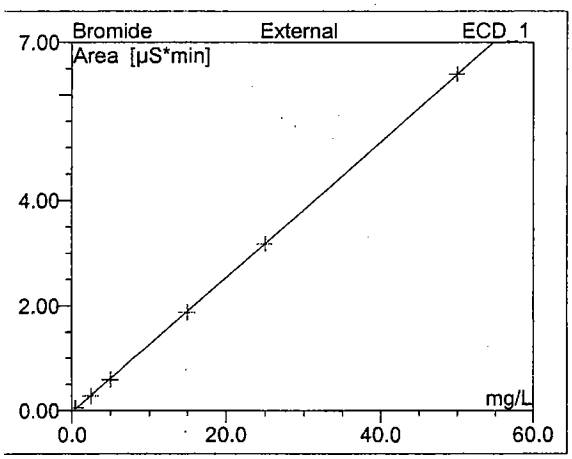
Sequence:	Anions 032006A	Inj. Vol.:	25.0
Program:	Anions_Program	Operator:	RDD-ACQU-WC-8
Inj. Date/Time:	03/20/06 19:52	Run Time:	12.00

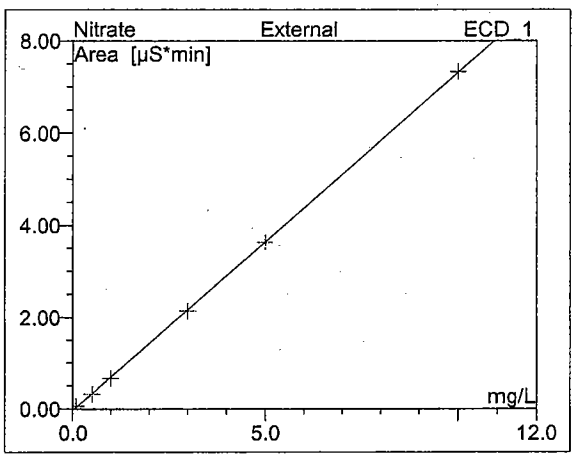












Sequence:	**Anions 032006A**	*Inj. Vol.:*	**25.0**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**03/20/06 19:52**	*Run Time:*	**12.00**

No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	2.96	Fluoride	0LOff	5	0.005	0.465	0.000	99.999
2	4.01	Chloride	0LOff	8	-0.061	0.290	0.000	99.991
3	4.72	Nitrite	0LOff	7	0.008	0.665	0.000	99.992
4	5.48	Sulfate	0LOff	8	-0.082	0.218	0.000	99.995
5	6.43	Bromide	0LOff	7	-0.026	0.125	0.000	99.954
6	7.35	Nitrate	0LOff	6	-0.041	0.713	0.000	99.978
AVERAGE:					-0.0329	0.4126	0.0000	99.9846

No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	2.926666667	Fluoride	0LOff	6	0.1128	0.419325	0	99.8743208
2	3.946666667	Chloride	0LOff	6	-0.011461	0.294528	0	99.99512508
3	4.63	Nitrite	0LOff	6	0.040644	0.633836	0	99.94622225
4	5.343333333	Sulfate	0LOff	6	-0.010056	0.217483	0	99.99949351
5	6.213333333	Bromide	0LOff	6	-0.031752	0.1283	0	99.99763272

0.00	6	7.163333333	Nitrate	0LOff	6	-0.037728	0.734767	0	99.99737978

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Reviewed
3-23-06
CAS

Sequence: Anions 032006A
Operator: RDDACQUWC8

Printed: 3/21/2006 8:19:10 AM

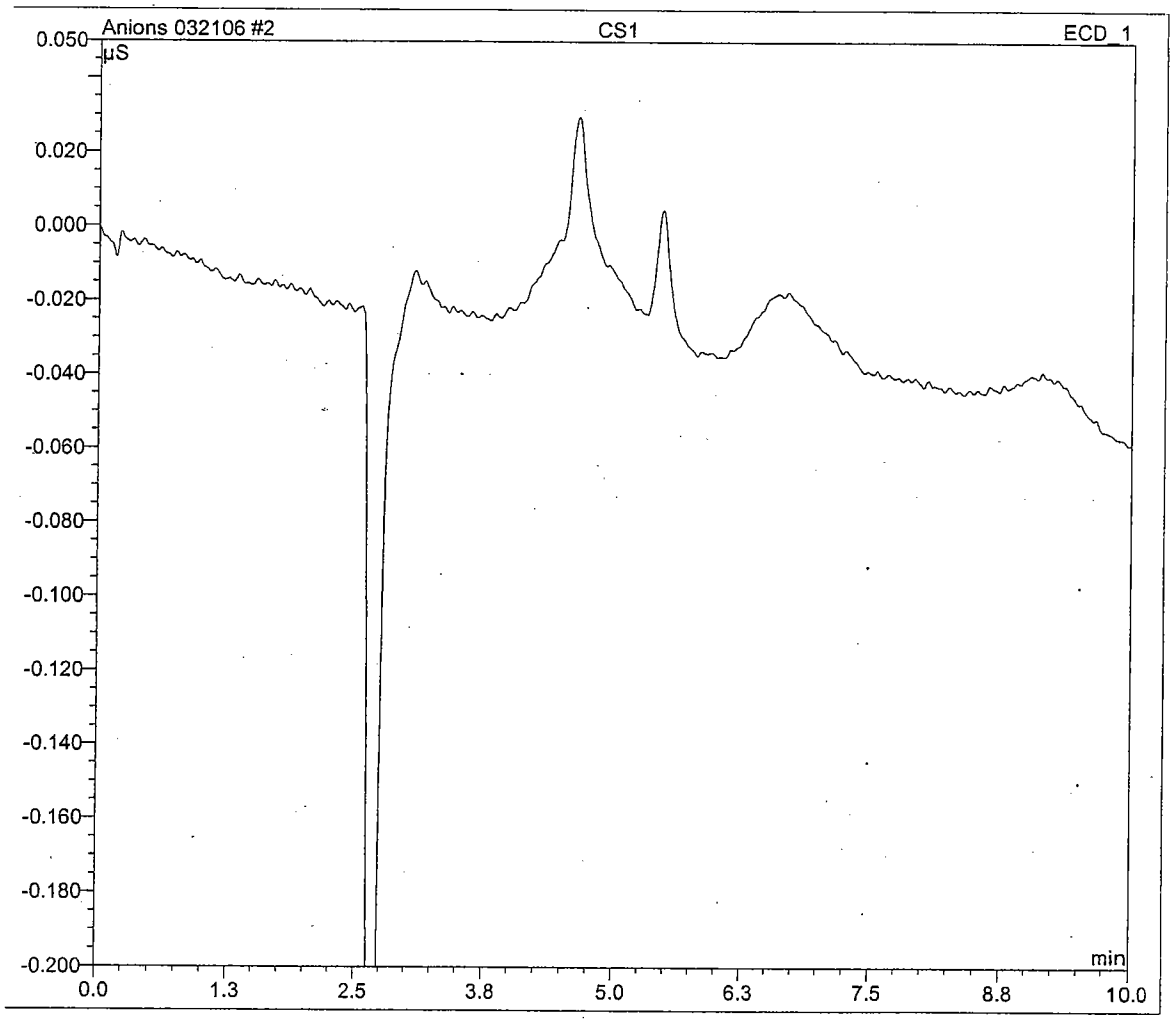
Title: Anions Calibration 092205
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\Anions 032006
Timebase: ICS-2000
#Samples: 54

Created: 3/20/2006 6:09:29 PM by RDDACQUWC8
Last Update: 3/20/2006 6:09:50 PM by RDDACQUWC8

	No.	Name	Type	Pos.	Program	Method	Status	Inj. Date/Time
	1	Rinse	Unknown	1	Anions_Program	Anions_Method	Finished	3/20/2006 6:09:50 PM
	2	CS1	Standard	2	Anions_Program	Anions_Method	Finished	3/20/2006 6:24:26 PM
	3	CS2	Standard	3	Anions_Program	Anions_Method	Finished	3/20/2006 6:39:02 PM
	4	CS3	Standard	4	Anions_Program	Anions_Method	Finished	3/20/2006 6:53:39 PM
	5	CS4	Standard	5	Anions_Program	Anions_Method	Finished	3/20/2006 7:08:15 PM
	6	CS5	Standard	6	Anions_Program	Anions_Method	Finished	3/20/2006 7:22:52 PM
	7	CS6	Standard	7	Anions_Program	Anions_Method	Finished	3/20/2006 7:37:28 PM
	8	CS7	Standard	8	Anions_Program	Anions_Method	Finished	3/20/2006 7:52:05 PM
	9	ICVS/LCS	Unknown	9	Anions_Program	Anions_Method	Finished	3/20/2006 8:06:41 PM
	10	RL	Unknown	3	Anions_Program	Anions_Method	Finished	3/20/2006 8:21:18 PM
	11	ICB	Unknown	4	Anions_Program	Anions_Method	Finished	3/20/2006 8:35:54 PM
	12	MB	Unknown	5	Anions_Program	Anions_Method	Finished	3/20/2006 8:50:30 PM
	13	LCSD	Unknown	5	Anions_Program	Anions_Method	Finished	3/20/2006 9:05:06 PM
F, Cl, SO_4	14	DH005001G	Unknown	6	Anions_Program	Anions_Method	Finished	3/20/2006 9:19:43 PM
	15	DH005001G MS	Unknown	7	Anions_Program	Anions_Method	Finished	3/20/2006 9:34:19 PM
	16	DH005001G MSD	Unknown	7	Anions_Program	Anions_Method	Finished	3/20/2006 9:48:55 PM
	17	DH005002G	Unknown	7	Anions_Program	Anions_Method	Finished	3/20/2006 10:03:32 PM
	18	DH005003G	Unknown	8	Anions_Program	Anions_Method	Finished	3/20/2006 10:18:08 PM
	19	DH005004G	Unknown	9	Anions_Program	Anions_Method	Finished	3/20/2006 10:32:44 PM
	20	DH005005G	Unknown	10	Anions_Program	Anions_Method	Finished	3/20/2006 10:47:21 PM
	21	DH005006G	Unknown	11	Anions_Program	Anions_Method	Finished	3/20/2006 11:01:57 PM
	22	DH009001G	Unknown	12	Anions_Program	Anions_Method	Finished	3/20/2006 11:16:34 PM
	23	DH009002G	Unknown	13	Anions_Program	Anions_Method	Finished	3/20/2006 11:31:10 PM
	24	CCVS	Unknown	10	Anions_Program	Anions_Method	Finished	3/20/2006 11:45:47 PM
	25	CCB	Unknown	11	Anions_Program	Anions_Method	Finished	3/21/2006 12:00:24 AM
F, Cl, SO_4	26	DH009003G	Unknown	12	Anions_Program	Anions_Method	Finished	3/21/2006 12:15:01 AM
	27	DH009004G	Unknown	13	Anions_Program	Anions_Method	Finished	3/21/2006 12:29:37 AM
Cl	28	DH019001B	Unknown	6	Anions_Program	Anions_Method	Finished	3/21/2006 12:44:14 AM
Cl, SO_4	29	DH020003A	Unknown	7	Anions_Program	Anions_Method	Finished	3/21/2006 12:58:50 AM
	30	DH020004A	Unknown	8	Anions_Program	Anions_Method	Finished	3/21/2006 1:13:26 AM
	31	DH020005A	Unknown	8	Anions_Program	Anions_Method	Finished	3/21/2006 1:28:03 AM
F, Cl, SO_4	32	DH005001G	Unknown	9	Anions_Program	Anions_Method	Finished	3/21/2006 1:42:39 AM
	33	DH005001G MS	Unknown	8	Anions_Program	Anions_Method	Finished	3/21/2006 1:57:16 AM
	34	DH005001G MSD	Unknown	9	Anions_Program	Anions_Method	Finished	3/21/2006 2:11:52 AM
	35	DH005002G	Unknown	10	Anions_Program	Anions_Method	Finished	3/21/2006 2:26:28 AM
	36	CCVS	Unknown	10	Anions_Program	Anions_Method	Finished	3/21/2006 2:41:05 AM
	37	CCB	Unknown	11	Anions_Program	Anions_Method	Finished	3/21/2006 2:55:41 AM
F, Cl, SO_4	38	DH005003G	Unknown	11	Anions_Program	Anions_Method	Finished	3/21/2006 3:10:17 AM
	39	DH005004G	Unknown	11	Anions_Program	Anions_Method	Finished	3/21/2006 3:24:54 AM
	40	DH005005G	Unknown	12	Anions_Program	Anions_Method	Finished	3/21/2006 3:39:30 AM
	41	DH005006G	Unknown	13	Anions_Program	Anions_Method	Finished	3/21/2006 3:54:07 AM
	42	DH009001G	Unknown	13	Anions_Program	Anions_Method	Finished	3/21/2006 4:08:43 AM

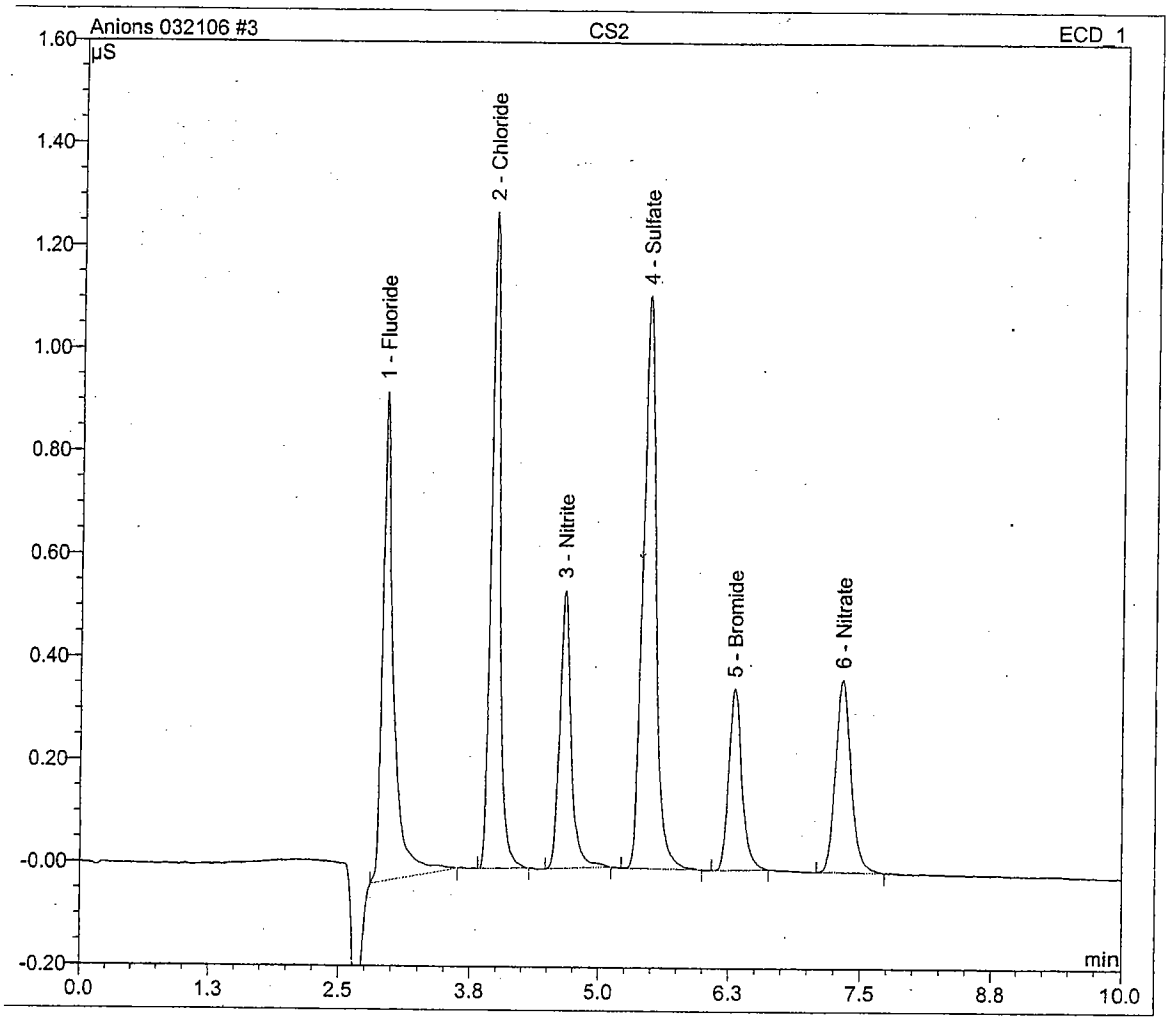
Sample Name:	**CS1**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**21.03.06 14:44**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
		TOTAL:		0.00	0.00	0.00



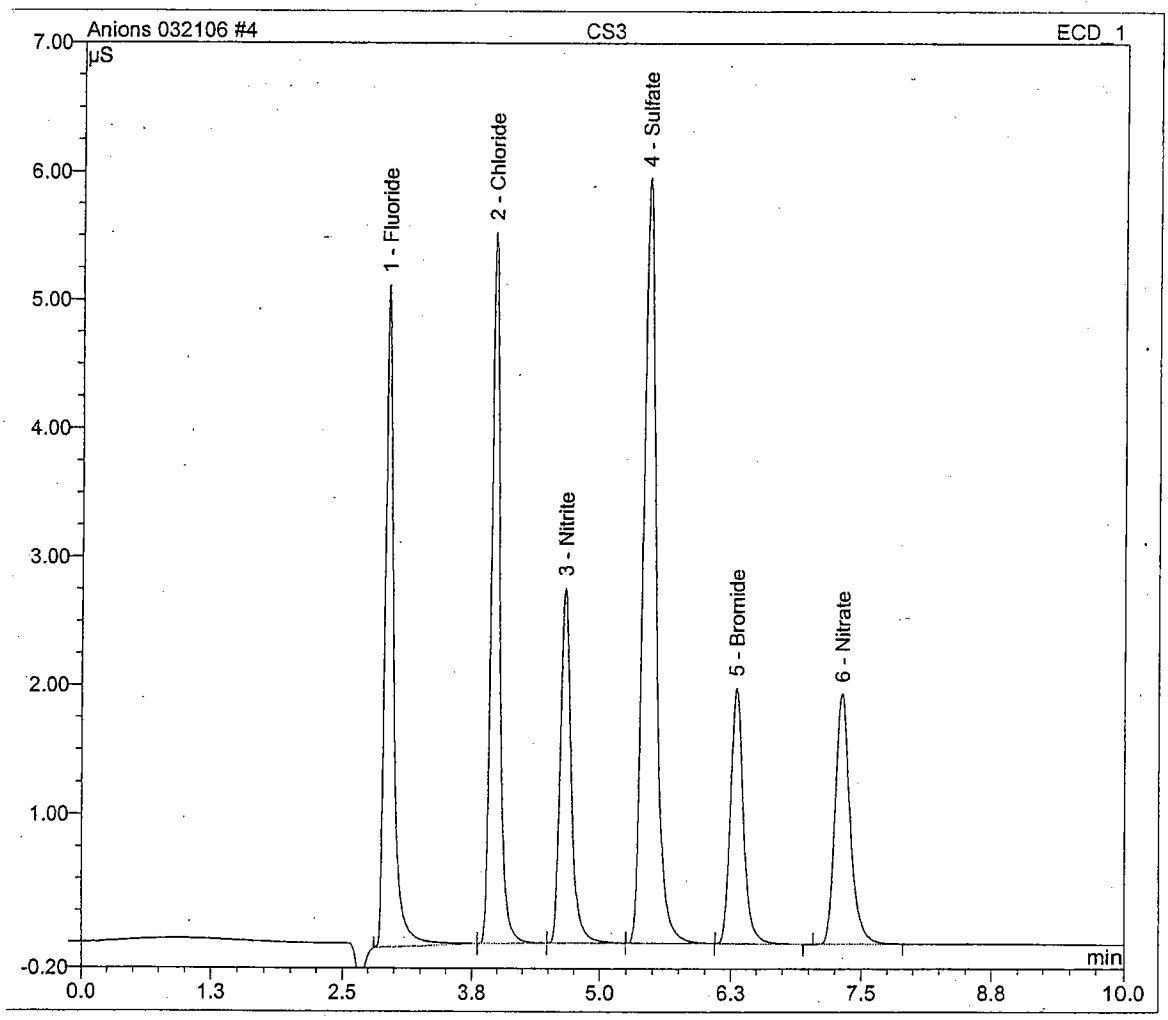
Sample Name:	**CS2**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**21.03.06 14:59**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	2.93	Fluoride	BMB	0.116	0.953	-0.0242
2	3.96	Chloride	BMB	0.131	1.278	0.4633
3	4.65	Nitrite	BMB	0.070	0.541	0.0370
4	5.45	Sulfate	BMB	0.161	1.115	0.7759
5	6.30	Bromide	BMB	0.052	0.354	0.6209
6	7.32	Nitrate	BMB	0.064	0.376	0.1299
		TOTAL:		0.60	4.62	2.00



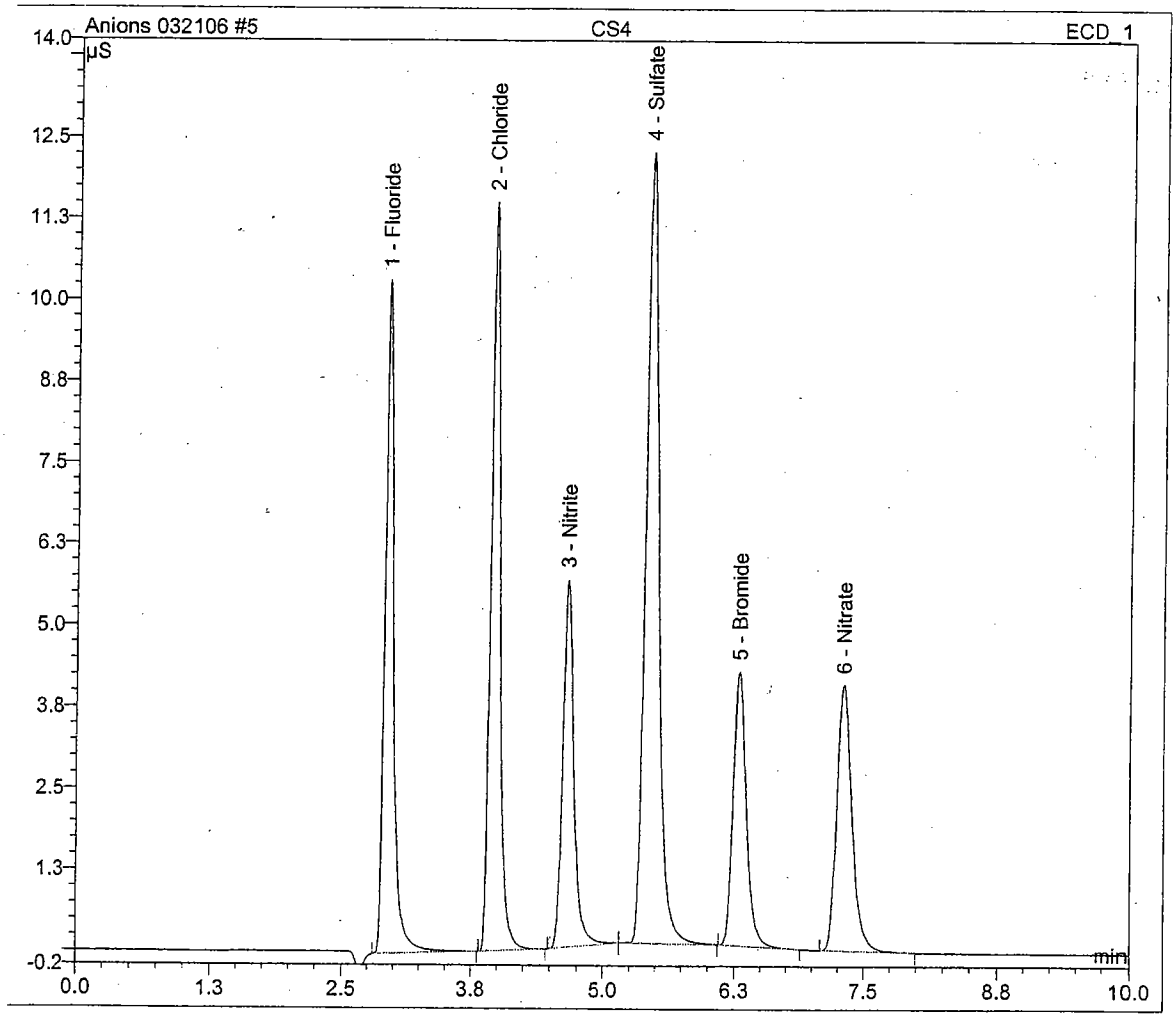
Sample Name:	**CS3**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**21.03.06 15:13**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	2.93	Fluoride	BMB	0.500	5.158	0.8623
2	3.96	Chloride	bMB	0.565	5.536	1.8687
3	4.65	Nitrite	BMB	0.336	2.764	0.4423
4	5.44	Sulfate	BMB	0.851	5.958	3.8163
5	6.30	Bromide	BMB	0.289	1.989	2.3874
6	7.31	Nitrate	BMB	0.330	1.949	0.4762
			TOTAL:	2.87	23.35	9.85



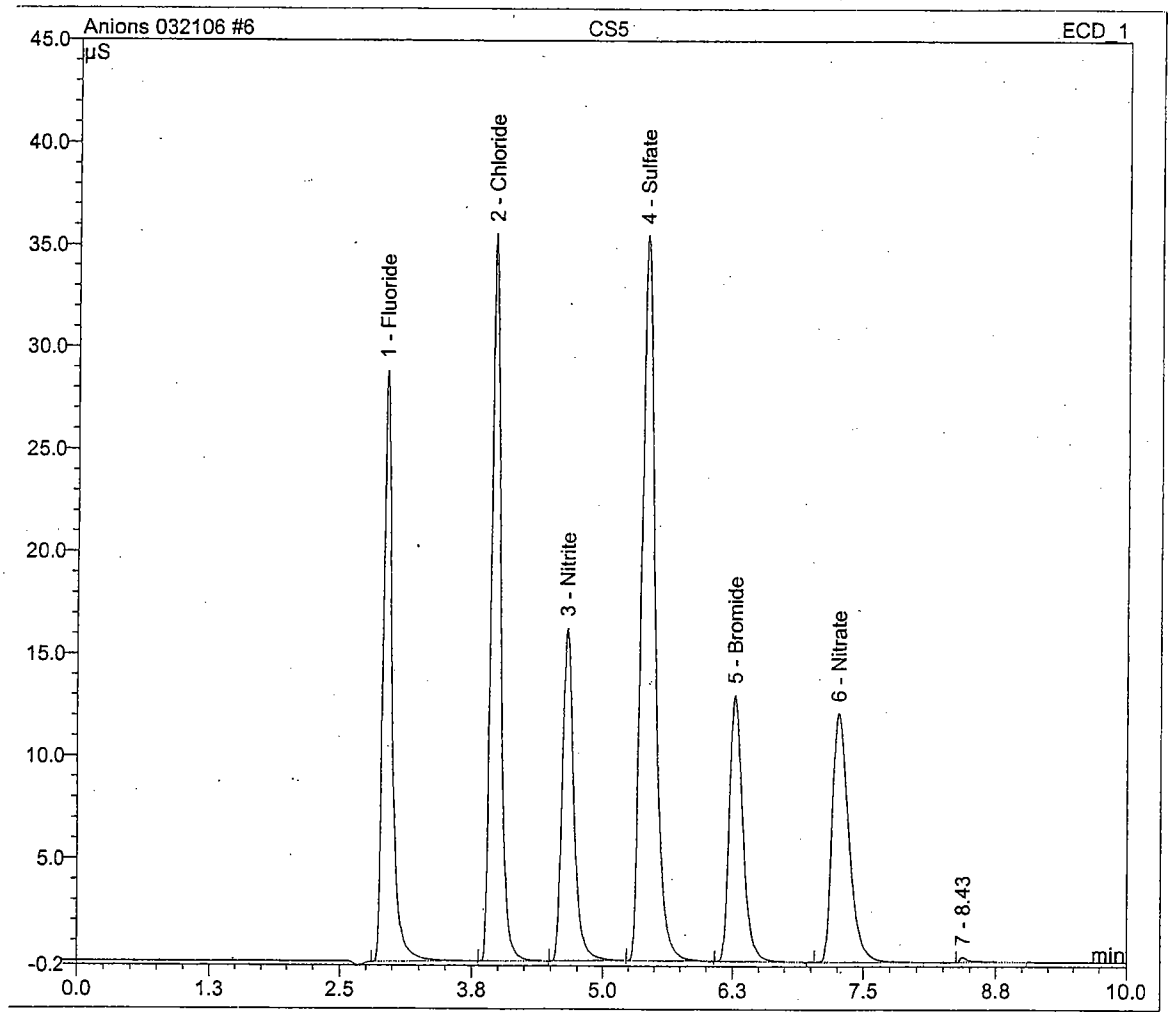
Sample Name:	**CS4**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**21.03.06 15:28**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	2.93	Fluoride	BMB	1.004	10.339	2.0239
2	3.96	Chloride	BMB	1.176	11.495	3.8502
3	4.65	Nitrite	BMb	0.692	5.639	0.9840
4	5.44	Sulfate	bMB	1.772	12.155	7.8792
5	6.29	Bromide	BMB	0.613	4.211	4.8059
6	7.30	Nitrate	BMB	0.701	4.093	0.9588
		TOTAL:		5.96	47.93	20.50



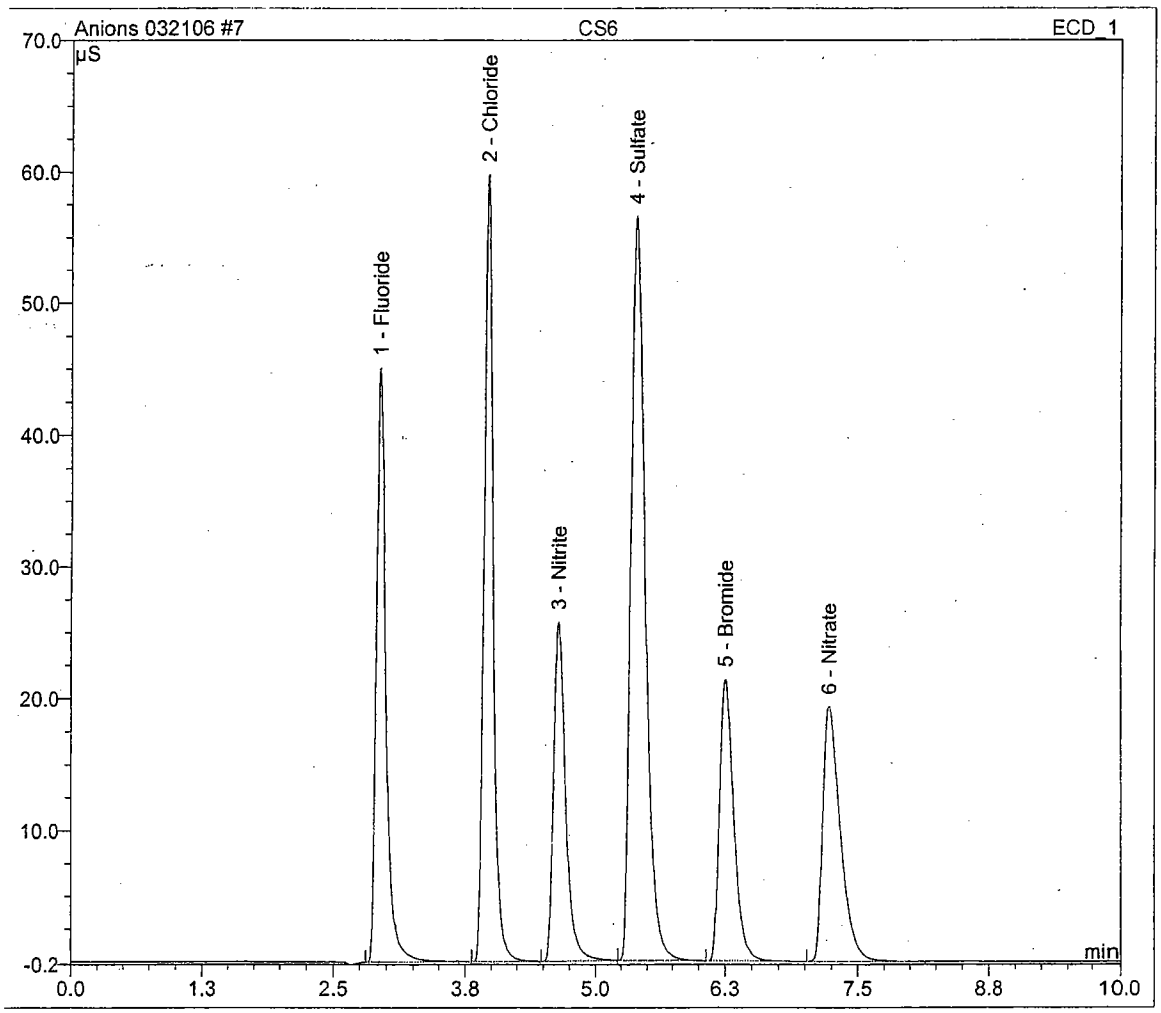
Sample Name:	**CS5**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**21.03.06 15:42**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	2.93	Fluoride	BMB	2.931	28.876	6.4653
2	3.96	Chloride	BMB	3.693	35.564	12.0092
3	4.65	Nitrite	BMB	2.104	16.264	3.1370
4	5.41	Sulfate	BMB	5.439	35.470	24.0456
5	6.27	Bromide	BMB	1.957	13.008	14.8318
6	7.26	Nitrate	BMB	2.243	12.164	2.9649
		TOTAL:		18.37	141.35	63.45



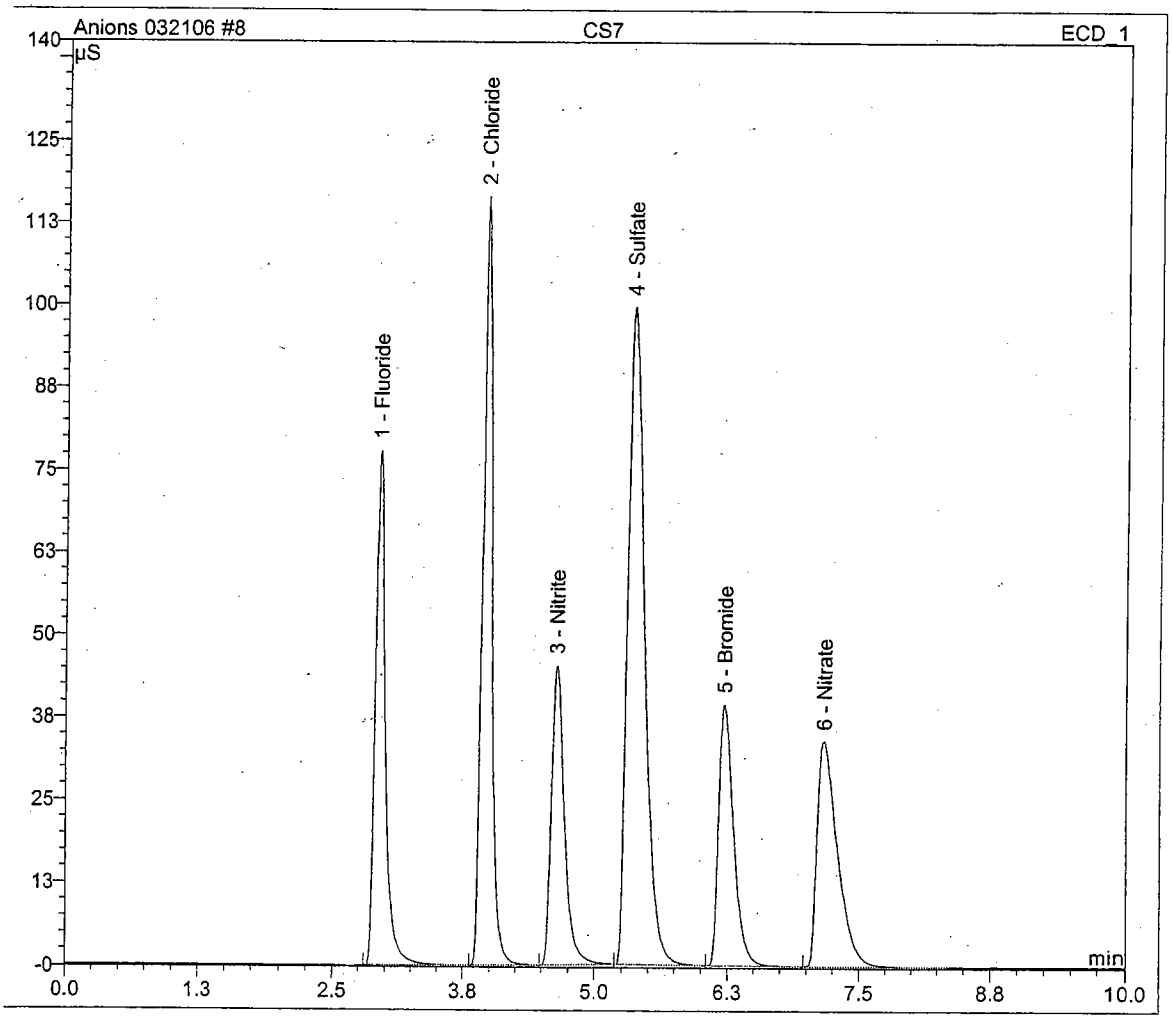
Sample Name:	**CS6**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**21.03.06 15:57**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	2.93	Fluoride	BMB	4.722	45.108	10.5937
2	3.96	Chloride	BMB	6.253	59.837	20.3050
3	4.64	Nitrite	BMB	3.466	25.763	5.2115
4	5.38	Sulfate	BMB	9.152	56.524	40.4185
5	6.25	Bromide	BMB	3.333	21.400	25.0996
6	7.22	Nitrate	BMB	3.819	19.394	5.0171
		TOTAL:		30.74	228.03	106.65



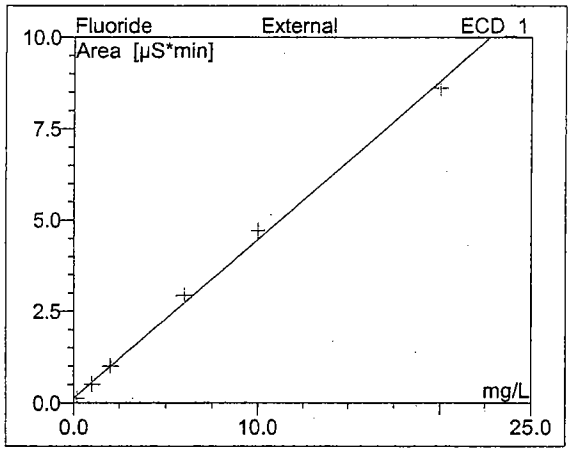
Sample Name:	**CS7**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**21.03.06 16:12**	*Run Time:*	**12.00**

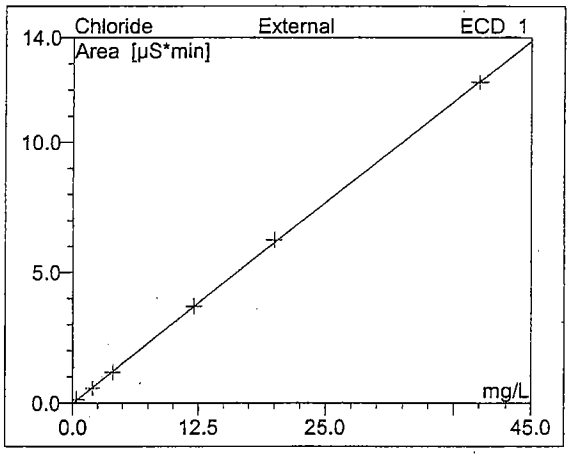
No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	2.94	Fluoride	BMB	8.615	77.964	19.5703
2	3.95	Chloride	BMB	12.287	116.572	39.8657
3	4.63	Nitrite	BMb	6.515	45.352	9.8583
4	5.34	Sulfate	bMB	18.083	99.626	79.7986
5	6.21	Bromide	BMB	6.674	39.547	50.0245
6	7.16	Nitrate	BMB	7.653	34.133	10.0070
		TOTAL:		59.83	413.19	209.12

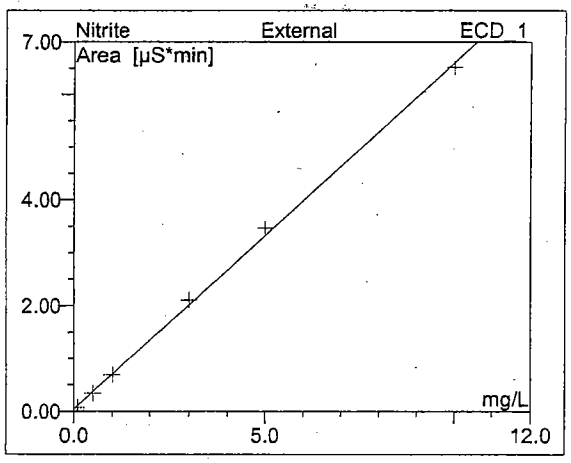


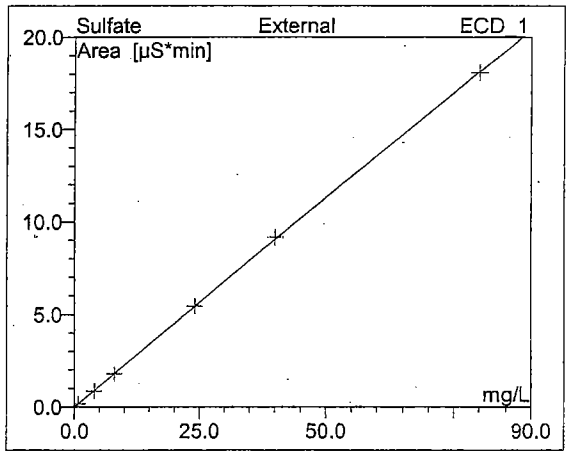
Calibration Batch Report

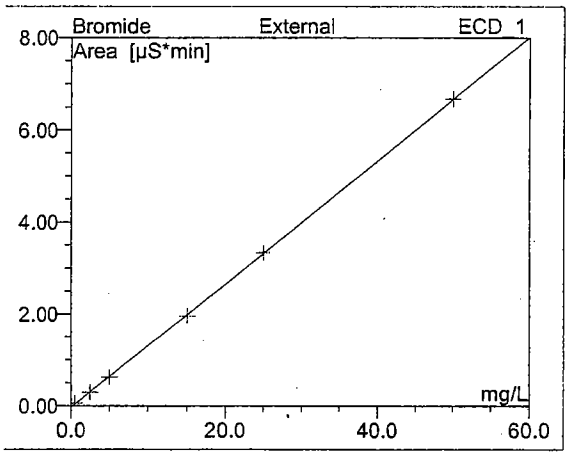
Sequence:	Anions 032106	Inj. Vol.:	25.0
Program:	Anions_Program	Operator:	RDD-ACQU-WC-8
Inj. Date/Time:	03/21/06 16:12	Run Time:	12.00

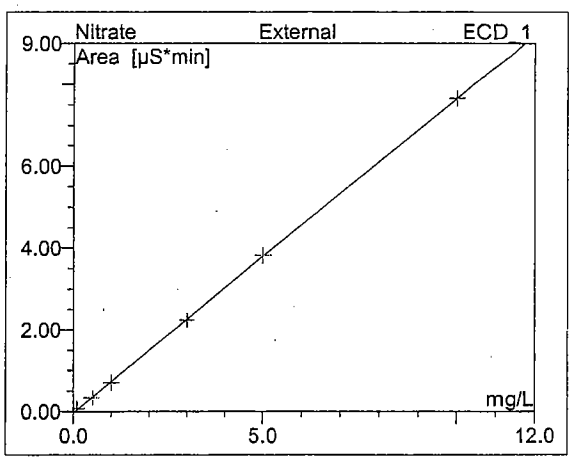












Sequence:	**Anions 032106**	*Inj. Vol.:*	**25.0**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**03/21/06 16:12**	*Run Time:*	**12.00**

No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	2.96	Fluoride	0LOff	5	0.005	0.465	0.000	99.999
2	4.01	Chloride	0LOff	8	-0.061	0.290	0.000	99.991
3	4.72	Nitrite	0LOff	7	0.008	0.665	0.000	99.992
4	5.48	Sulfate	0LOff	8	-0.082	0.218	0.000	99.995
5	6.43	Bromide	0LOff	7	-0.026	0.125	0.000	99.954
6	7.35	Nitrate	0LOff	6	-0.041	0.713	0.000	99.978
AVERAGE:					-0.0329	0.4126	0.0000	99.9846

No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	2.936666667	Fluoride	0LOff	6	0.126355	0.433773	0	99.85863021
2	3.953333333	Chloride	0LOff	6	-0.011724	0.308507	0	99.99323419
3	4.633333333	Nitrite	0LOff	6	0.045944	0.656204	0	99.93676853
4	5.336666667	Sulfate	0LOff	6	-0.014948	0.226797	0	99.99709252
5	6.213333333	Bromide	0LOff	6	-0.030826	0.134031	0	99.99756634

0.0 0 10.0	6	7.16	Nitrate	0LOff	6	-0.035398	0.768348	0	99.99716067

Sequence: Anions 032106
Operator: RDDACQUWC8
Printed: 3/22/2006 4:28:33 PM

Title: Anions Calibration 092205
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\Anions 032106
Timebase: ICS-2000
#Samples: 69

Created: 3/21/2006 1:46:11 PM by RDDACQUWC8
Last Update: 3/21/2006 3:03:01 PM by RDDACQUWC8

	No.	Name	Type	Pos.	Program	Method	Status	Inj. Date/Time
	1	Rinse	Unknown	1	Anions_Program	Anions_Method	Finished	3/21/2006 2:29:56 PM
	2	CS1	Standard	2	Anions_Program	Anions_Method	Finished	3/21/2006 2:44:33 PM
	3	CS2	Standard	3	Anions_Program	Anions_Method	Finished	3/21/2006 2:59:09 PM
	4	CS3	Standard	4	Anions_Program	Anions_Method	Finished	3/21/2006 3:13:46 PM
	5	CS4	Standard	5	Anions_Program	Anions_Method	Finished	3/21/2006 3:28:22 PM
	6	CS5	Standard	6	Anions_Program	Anions_Method	Finished	3/21/2006 3:42:59 PM
	7	CS6	Standard	7	Anions_Program	Anions_Method	Finished	3/21/2006 3:57:35 PM
	8	CS7	Standard	8	Anions_Program	Anions_Method	Finished	3/21/2006 4:12:11 PM
	9	ICVS/LCS	Unknown	9	Anions_Program	Anions_Method	Finished	3/21/2006 4:26:47 PM
	10	RL	Unknown	3	Anions_Program	Anions_Method	Finished	3/21/2006 4:41:23 PM
	11	ICB	Unknown	4	Anions_Program	Anions_Method	Finished	3/21/2006 4:56:00 PM
	12	MB	Unknown	5	Anions_Program	Anions_Method	Finished	3/21/2006 5:10:36 PM
	13	LCSD	Unknown	5	Anions_Program	Anions_Method	Finished	3/21/2006 5:25:12 PM
Cl, SO_4	14	DH005004G	Unknown	6	Anions_Program	Anions_Method	Finished	3/21/2006 5:39:48 PM
Cl	15	DH005005G	Unknown	7	Anions_Program	Anions_Method	Finished	3/21/2006 5:54:25 PM
	16	DH005006G	Unknown	7	Anions_Program	Anions_Method	Finished	3/21/2006 6:09:01 PM
SO_4	17	DG980003B RL	Unknown	7	Anions_Program	Anions_Method	Finished	3/21/2006 6:23:37 PM
Cl, SO_4	18	DH002001G	Unknown	8	Anions_Program	Anions_Method	Finished	3/21/2006 6:38:14 PM
	19	DH002001G MS	Unknown	9	Anions_Program	Anions_Method	Finished	3/21/2006 6:52:50 PM
	20	DH002001G MSD	Unknown	10	Anions_Program	Anions_Method	Finished	3/21/2006 7:07:27 PM
	21	DH002002G	Unknown	11	Anions_Program	Anions_Method	Finished	3/21/2006 7:22:03 PM
	22	DH006001N	Unknown	12	Anions_Program	Anions_Method	Finished	3/21/2006 7:36:39 PM
	23	DH006002N	Unknown	13	Anions_Program	Anions_Method	Finished	3/21/2006 7:51:15 PM
	24	CCVS	Unknown	10	Anions_Program	Anions_Method	Finished	3/21/2006 8:05:52 PM
	25	CCB	Unknown	11	Anions_Program	Anions_Method	Finished	3/21/2006 8:20:28 PM
Cl, SO_4	26	DH006003N	Unknown	12	Anions_Program	Anions_Method	Finished	3/21/2006 8:35:04 PM
	27	DH011001N	Unknown	13	Anions_Program	Anions_Method	Finished	3/21/2006 8:49:41 PM
	28	DH011001N MS	Unknown	6	Anions_Program	Anions_Method	Finished	3/21/2006 9:04:17 PM
	29	DH011001N MSD	Unknown	7	Anions_Program	Anions_Method	Finished	3/21/2006 9:18:53 PM
	30	DH011002N	Unknown	8	Anions_Program	Anions_Method	Finished	3/21/2006 9:33:30 PM
	31	DH011003N	Unknown	8	Anions_Program	Anions_Method	Finished	3/21/2006 9:48:06 PM
	32	DH011004N	Unknown	9	Anions_Program	Anions_Method	Finished	3/21/2006 10:02:43 PM
	33	DH014001N	Unknown	8	Anions_Program	Anions_Method	Finished	3/21/2006 10:17:19 PM
	34	DH014002N	Unknown	9	Anions_Program	Anions_Method	Finished	3/21/2006 10:31:56 PM
	35	DH014003N	Unknown	10	Anions_Program	Anions_Method	Finished	3/21/2006 10:46:32 PM
	36	CCVS	Unknown	10	Anions_Program	Anions_Method	Finished	3/21/2006 11:01:08 PM
	37	CCB	Unknown	11	Anions_Program	Anions_Method	Finished	3/21/2006 11:15:45 PM
Cl, SO_4	38	DH014004N	Unknown	11	Anions_Program	Anions_Method	Finished	3/21/2006 11:30:21 PM
	39	DH018001N	Unknown	11	Anions_Program	Anions_Method	Finished	3/21/2006 11:44:57 PM
	40	DH018002N	Unknown	12	Anions_Program	Anions_Method	Finished	3/21/2006 11:59:34 PM
	41	DH018003N	Unknown	13	Anions_Program	Anions_Method	Finished	3/22/2006 12:14:10 AM
SO_4	42	DG980003B	Unknown	13	Anions_Program	Anions_Method	Finished	3/22/2006 12:28:46 AM

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Title: Anions Calibration 092205
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\Anions 032106
Timebase: ICS-2000
#Samples: 69

Created: 3/21/2006 1:46:11 PM by RDDACQUWC8
Last Update: 3/21/2006 3:03:01 PM by RDDACQUWC8

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38	1.0000
39	1.0000
40	1.0000
41	1.0000
42	5.0000

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Title: Anions Calibration 092205
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\Anions 032106
Timebase: ICS-2000
#Samples: 69

Created: 3/21/2006 1:46:11 PM by RDDACQUWC8
Last Update: 3/21/2006 3:03:01 PM by RDDACQUWC8

	No.	Name	Type	Pos.	Program	Method	Status	Inj. Date/Time
ICV, ISQ	43	DH002001G	Unknown	14	Anions_Program	Anions_Method	Finished	3/22/2006 12:43:22 AM
	44	DH002001G MS	Unknown	15	Anions_Program	Anions_Method	Finished	3/22/2006 12:57:58 AM
	45	DH002001G MSD	Unknown	12	Anions_Program	Anions_Method	Finished	3/22/2006 1:12:35 AM
	46	DH002002G	Unknown	13	Anions_Program	Anions_Method	Finished	3/22/2006 1:27:11 AM
	47	DH006001N	Unknown	13	Anions_Program	Anions_Method	Finished	3/22/2006 1:41:47 AM
	48	CCVS	Unknown	7	Anions_Program	Anions_Method	Finished	3/22/2006 1:56:23 AM
	49	CCB	Unknown	8	Anions_Program	Anions_Method	Finished	3/22/2006 2:11:00 AM
ICV, ISQ	50	DH006002N	Unknown	8	Anions_Program	Anions_Method	Finished	3/22/2006 2:25:35 AM
	51	DH006003N	Unknown	8	Anions_Program	Anions_Method	Finished	3/22/2006 2:40:12 AM
	52	DH011001N	Unknown	9	Anions_Program	Anions_Method	Finished	3/22/2006 2:54:48 AM
	53	DH011001N MS	Unknown	10	Anions_Program	Anions_Method	Finished	3/22/2006 3:09:25 AM
	54	DH011001N MSD	Unknown	11	Anions_Program	Anions_Method	Finished	3/22/2006 3:24:01 AM
	55	DH011002N	Unknown	12	Anions_Program	Anions_Method	Finished	3/22/2006 3:38:37 AM
	56	DH011003N	Unknown	9	Anions_Program	Anions_Method	Finished	3/22/2006 3:53:13 AM
	57	DH011004N	Unknown	10	Anions_Program	Anions_Method	Finished	3/22/2006 4:07:50 AM
	58	DH014001N	Unknown	11	Anions_Program	Anions_Method	Finished	3/22/2006 4:22:26 AM
	59	DH014002N	Unknown	12	Anions_Program	Anions_Method	Finished	3/22/2006 4:37:02 AM
	60	CCVS	Unknown	9	Anions_Program	Anions_Method	Finished	3/22/2006 4:51:39 AM
	61	CCB	Unknown	10	Anions_Program	Anions_Method	Finished	3/22/2006 5:06:15 AM
ICV, ISQ	62	DH014003N	Unknown	11	Anions_Program	Anions_Method	Finished	3/22/2006 5:20:51 AM
	63	DH014004N	Unknown	12	Anions_Program	Anions_Method	Finished	3/22/2006 5:35:28 AM
	64	DH018001N	Unknown	9	Anions_Program	Anions_Method	Finished	3/22/2006 5:50:04 AM
	65	DH018002N	Unknown	10	Anions_Program	Anions_Method	Finished	3/22/2006 6:04:41 AM
	66	DH018003N	Unknown	11	Anions_Program	Anions_Method	Finished	3/22/2006 6:19:17 AM
	67	CCVS	Unknown	8	Anions_Program	Anions_Method	Finished	3/22/2006 6:33:54 AM
	68	CCB	Unknown	8	Anions_Program	Anions_Method	Finished	3/22/2006 6:48:30 AM
	69	END	Unknown	14	Pump Shutdown	Anions_Method	Finished	3/22/2006 7:03:06 AM

Chromeleon © Dionex Corporation, Version 6.50 SP2 Build 968

Title: Anions Calibration 092205
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\Anions 032106
Timebase: ICS-2000
#Samples: 69

Created: 3/21/2006 1:46:11 PM by RDDACQUWC8
Last Update: 3/21/2006 3:03:01 PM by RDDACQUWC8

No.	Dil. Factor
43	5.0000
44	5.0000
45	5.0000
46	5.0000
47	5.0000
48	1.0000
49	1.0000
50	5.0000
51	5.0000
52	5.0000
53	5.0000
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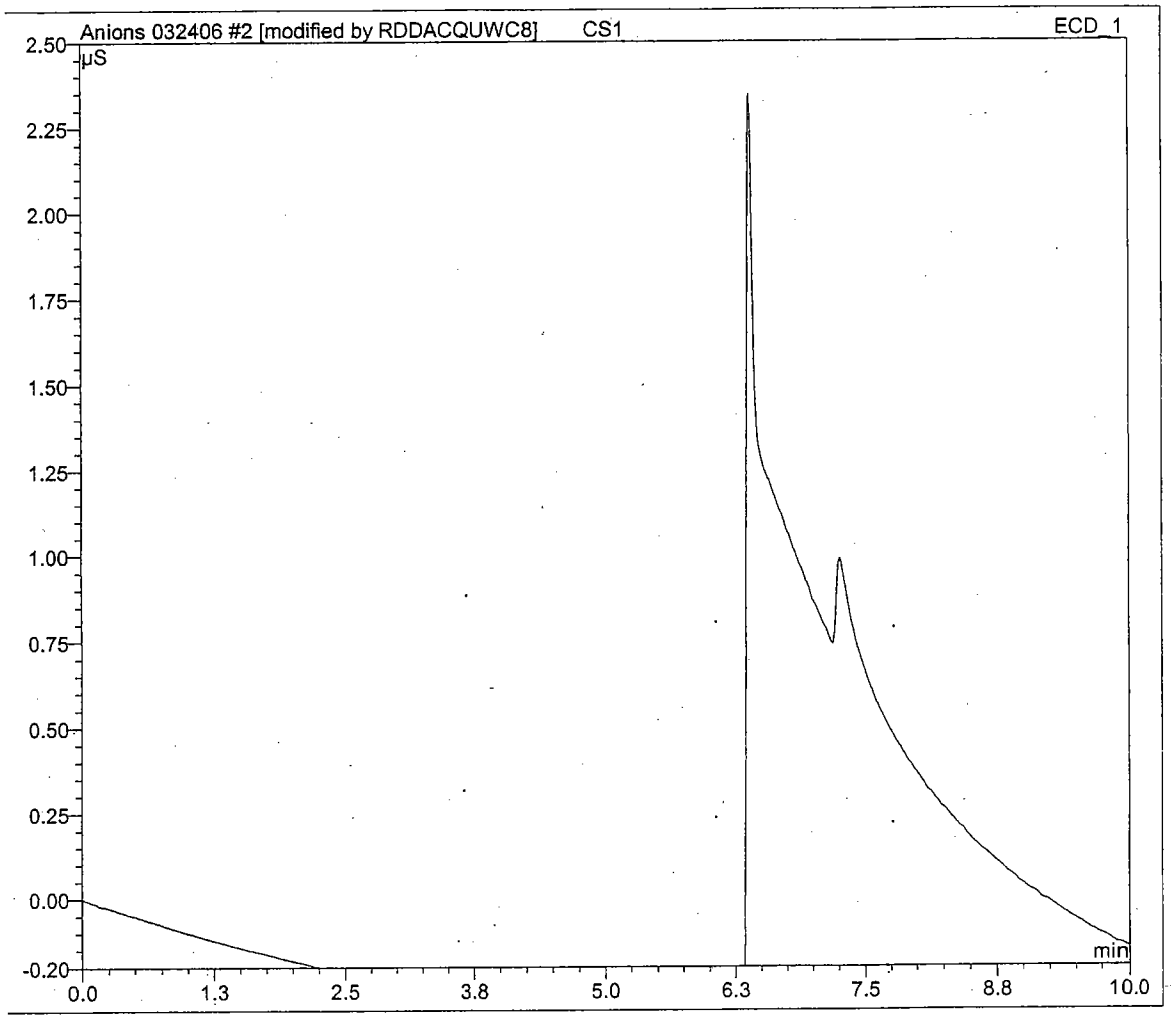
59	5.0000
60	1.0000
61	1.0000
62	5.0000
63	5.0000
64	5.0000
65	5.0000
66	5.0000
67	1.0000
68	1.0000
69	1.0000

after adjustment

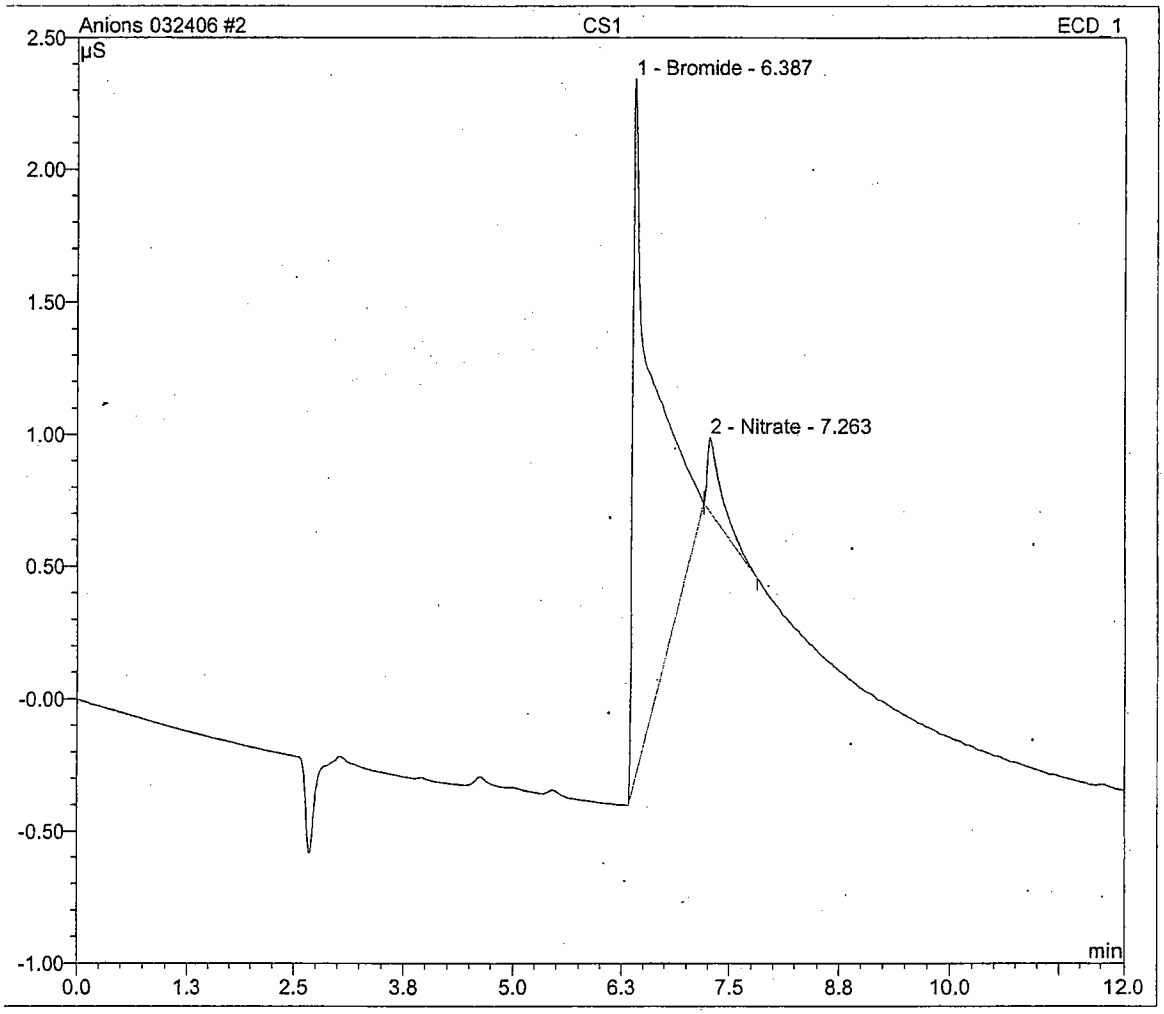
Sample Name:	**CS1**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**24.03.06 11:02**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
			TOTAL:	0.00	0.00	0.00



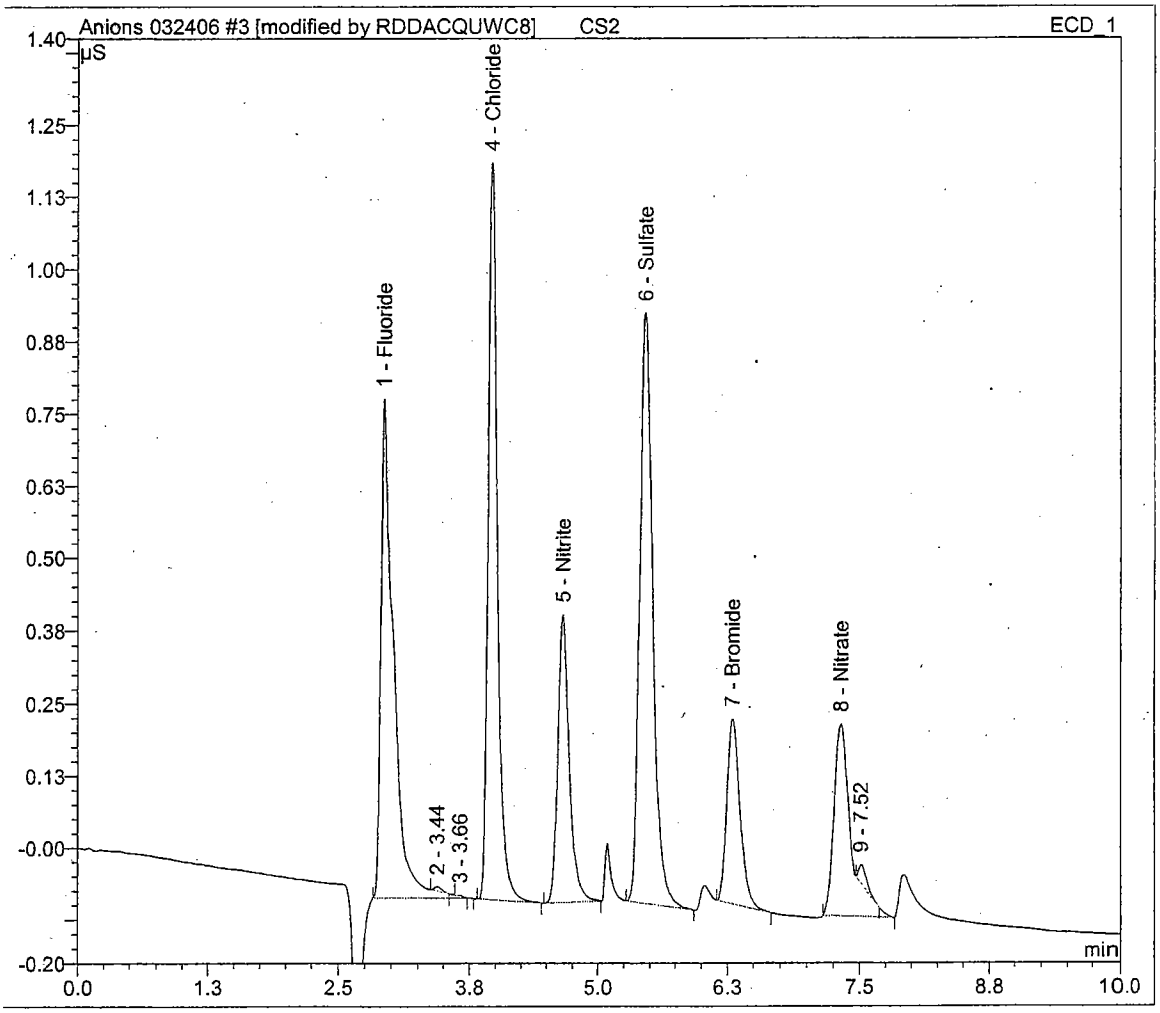
Sample Name:	**CS1**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**24.03.06 11:02**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	6.39	Bromide	BMb	0.780	2.660	5.4796
2	7.26	Nitrate	bMB	0.055	0.282	0.1099
		TOTAL:		0.84	2.94	5.59



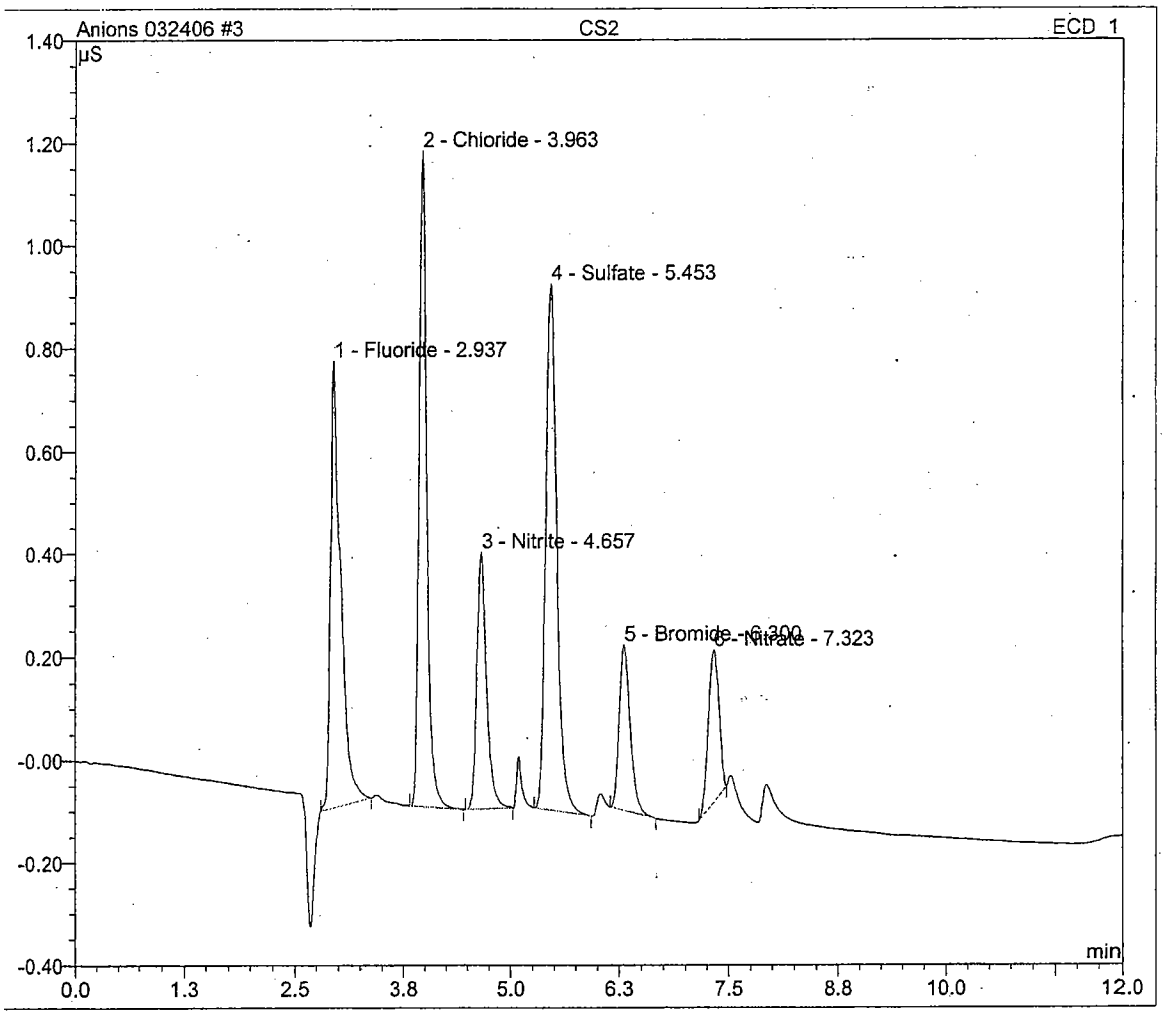
Sample Name:	**CS2**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**24.03.06 11:17**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	2.94	Fluoride	BMB*	0.122	0.863	0.0565
4	3.96	Chloride	BMB	0.135	1.275	0.5665
5	4.66	Nitrite	BMB	0.065	0.498	0.0594
6	5.45	Sulfate	BMB	0.148	1.022	0.8994
7	6.30	Bromide	BMB	0.047	0.321	0.6740
8	7.32	Nitrate	BMB*	0.063	0.333	0.1473
		TOTAL:		0.58	4.31	2.40



Sample Name:	**CS2**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**24.03.06 11:17**	*Run Time:*	**12.00**

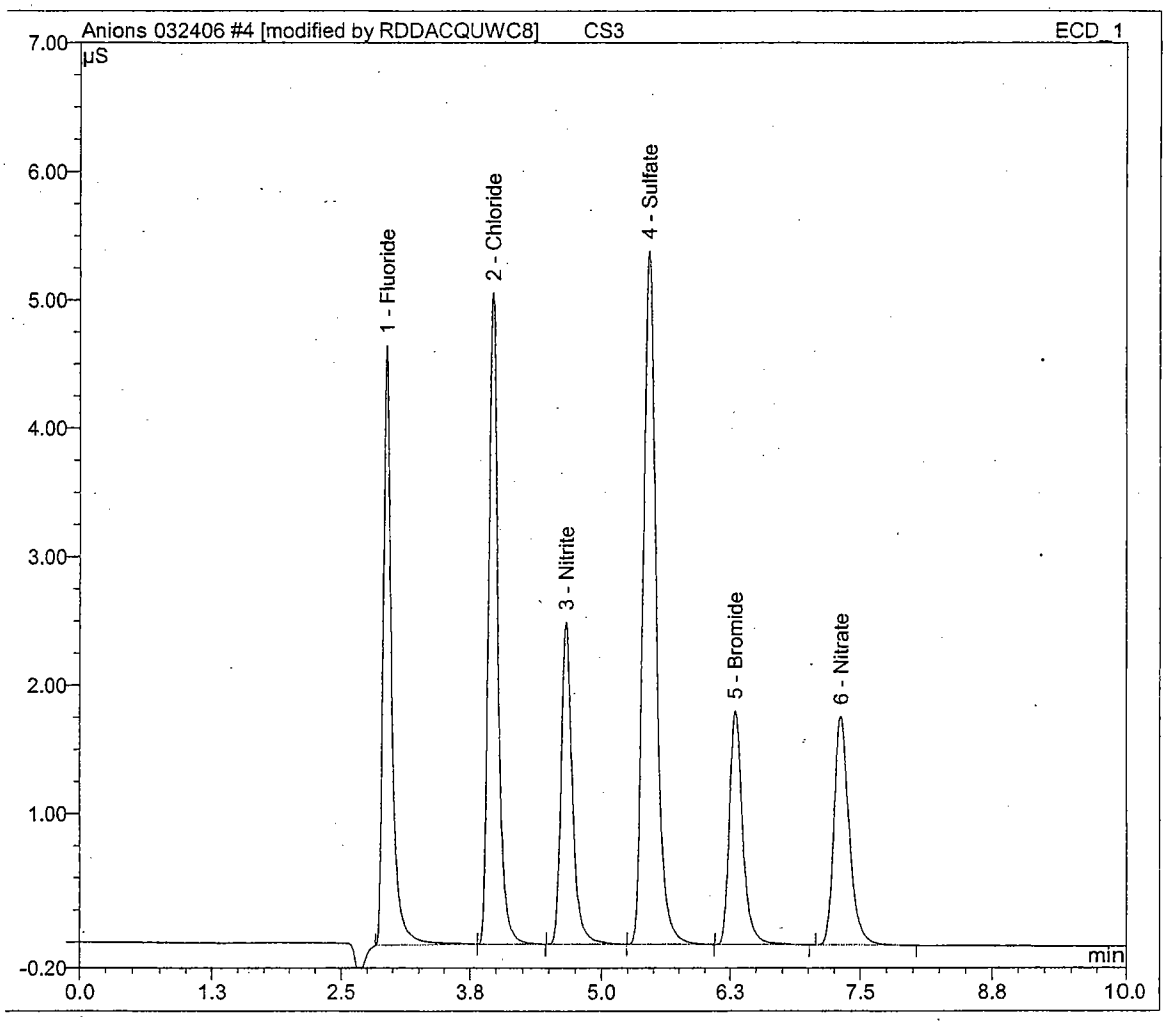
No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	2.94	Fluoride	BMB	0.118	0.869	0.0526
2	3.96	Chloride	BMB	0.135	1.275	0.5665
3	4.66	Nitrite	BMB	0.065	0.498	0.0594
4	5.45	Sulfate	BMB	0.148	1.022	0.8994
5	6.30	Bromide	BMB	0.047	0.321	0.6740
6	7.32	Nitrate	BMB	0.042	0.296	0.1246
		TOTAL:		0.55	4.28	2.38



After Adjustment

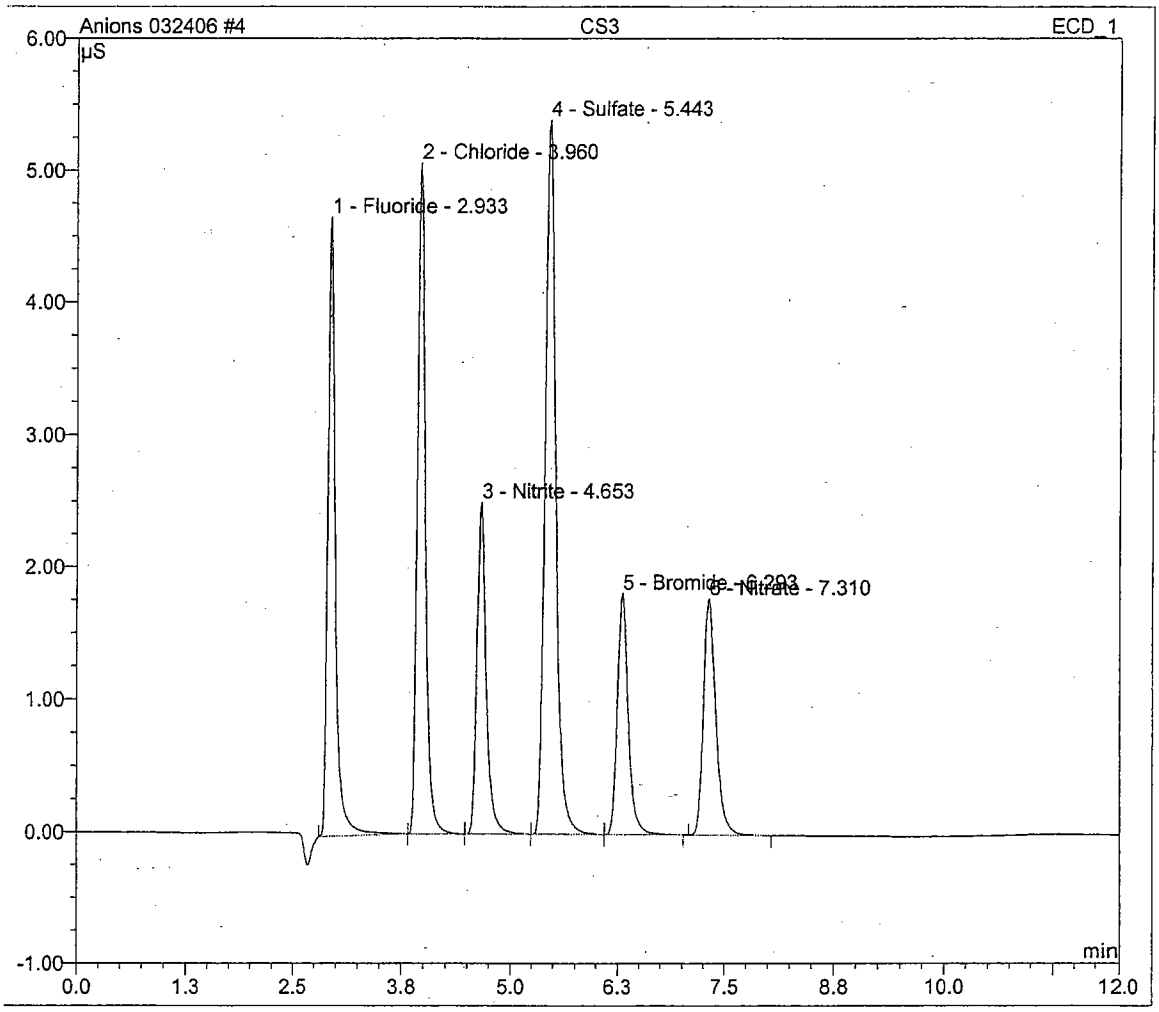
Sample Name:	**CS3**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**24.03.06 11:31**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	2.93	Fluoride	BMB*	0.456	4.667	0.8723
2	3.96	Chloride	BMB	0.528	5.073	1.9382
3	4.65	Nitrite	BMB	0.311	2.507	0.4584
4	5.44	Sulfate	BMB	0.784	5.399	3.9000
5	6.29	Bromide	BMB	0.271	1.818	2.4721
6	7.31	Nitrate	BMB	0.306	1.780	0.4861
			TOTAL:	2.66	21.24	10.13



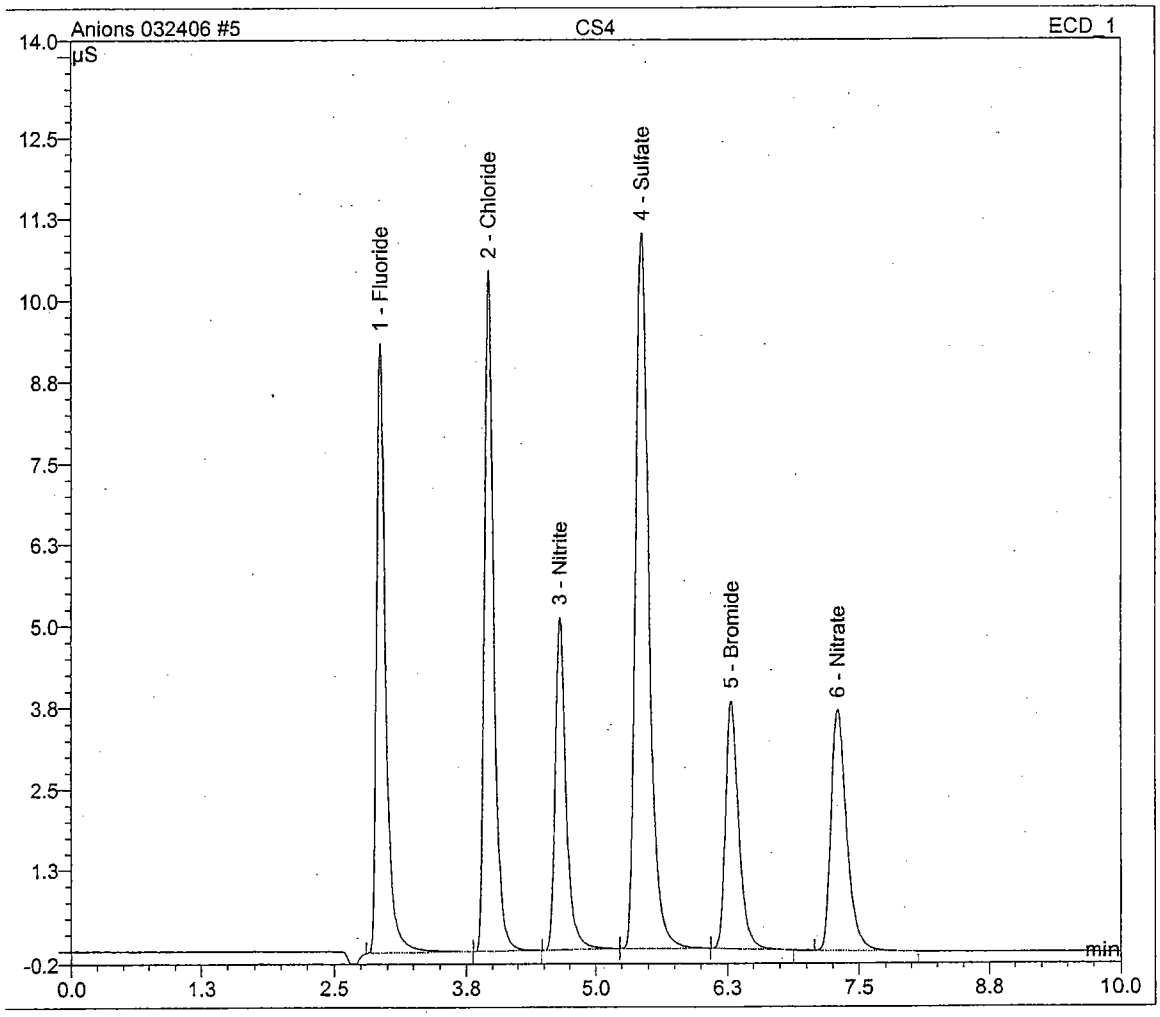
Sample Name:	**CS3**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**24.03.06 11:31**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	2.93	Fluoride	BMB	0.463	4.678	0.8846
2	3.96	Chloride	BMB	0.528	5.073	1.9382
3	4.65	Nitrite	BMB	0.311	2.507	0.4584
4	5.44	Sulfate	BMB	0.784	5.399	3.9000
5	6.29	Bromide	BMB	0.271	1.818	2.4721
6	7.31	Nitrate	BMB	0.306	1.780	0.4861
			TOTAL:	2.66	21.26	10.14



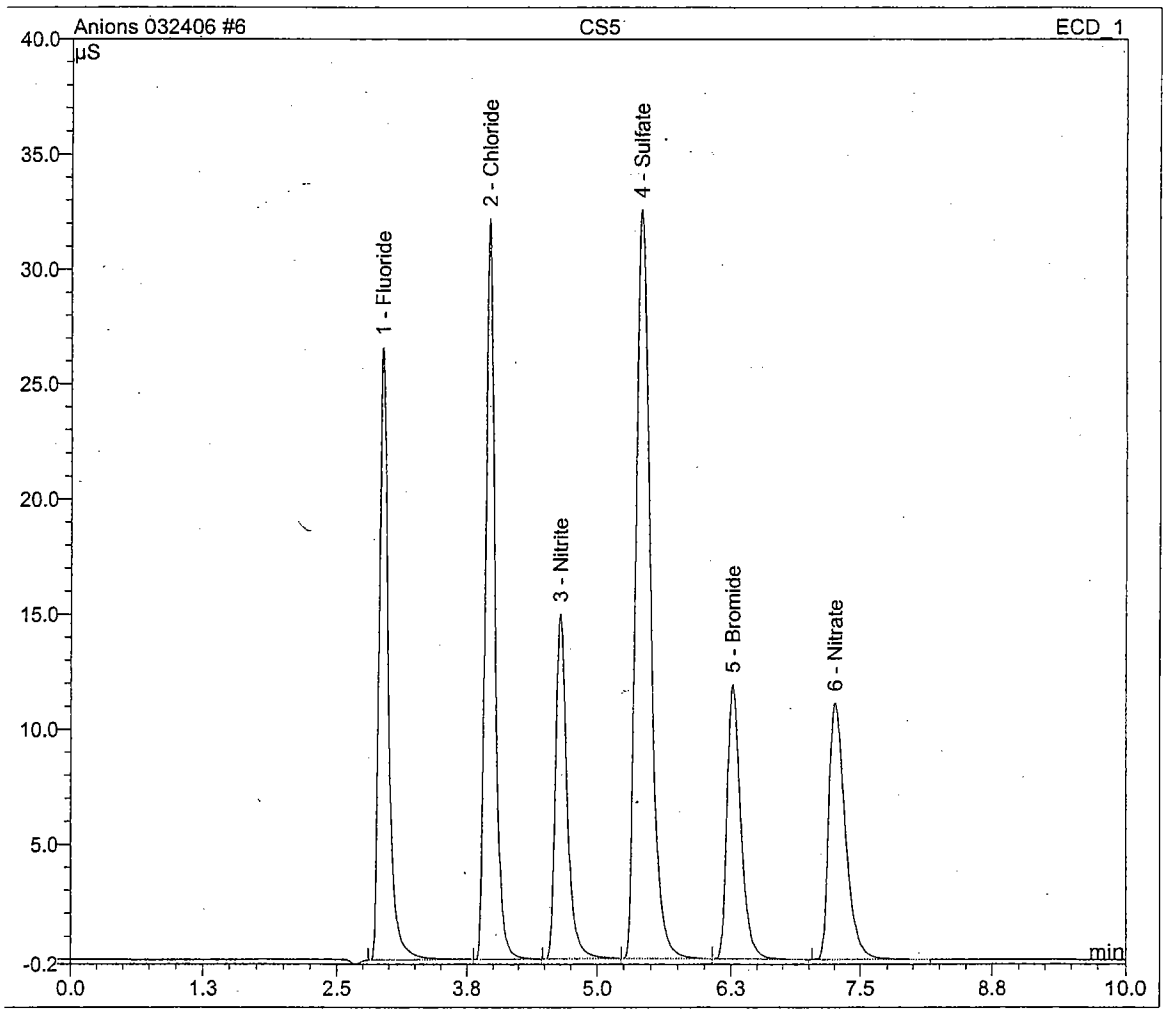
Sample Name:	**CS4**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**24.03.06 11:46**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	2.93	Fluoride	BMB	0.924	9.370	2.0139
2	3.96	Chloride	BMB	1.093	10.460	3.9057
3	4.65	Nitrite	BMB	0.636	5.110	0.9852
4	5.44	Sulfate	bMB	1.621	10.996	7.8523
5	6.29	Bromide	BMB	0.563	3.818	4.8073
6	7.30	Nitrate	BMB	0.644	3.714	0.9589
			TOTAL:	5.48	43.47	20.52



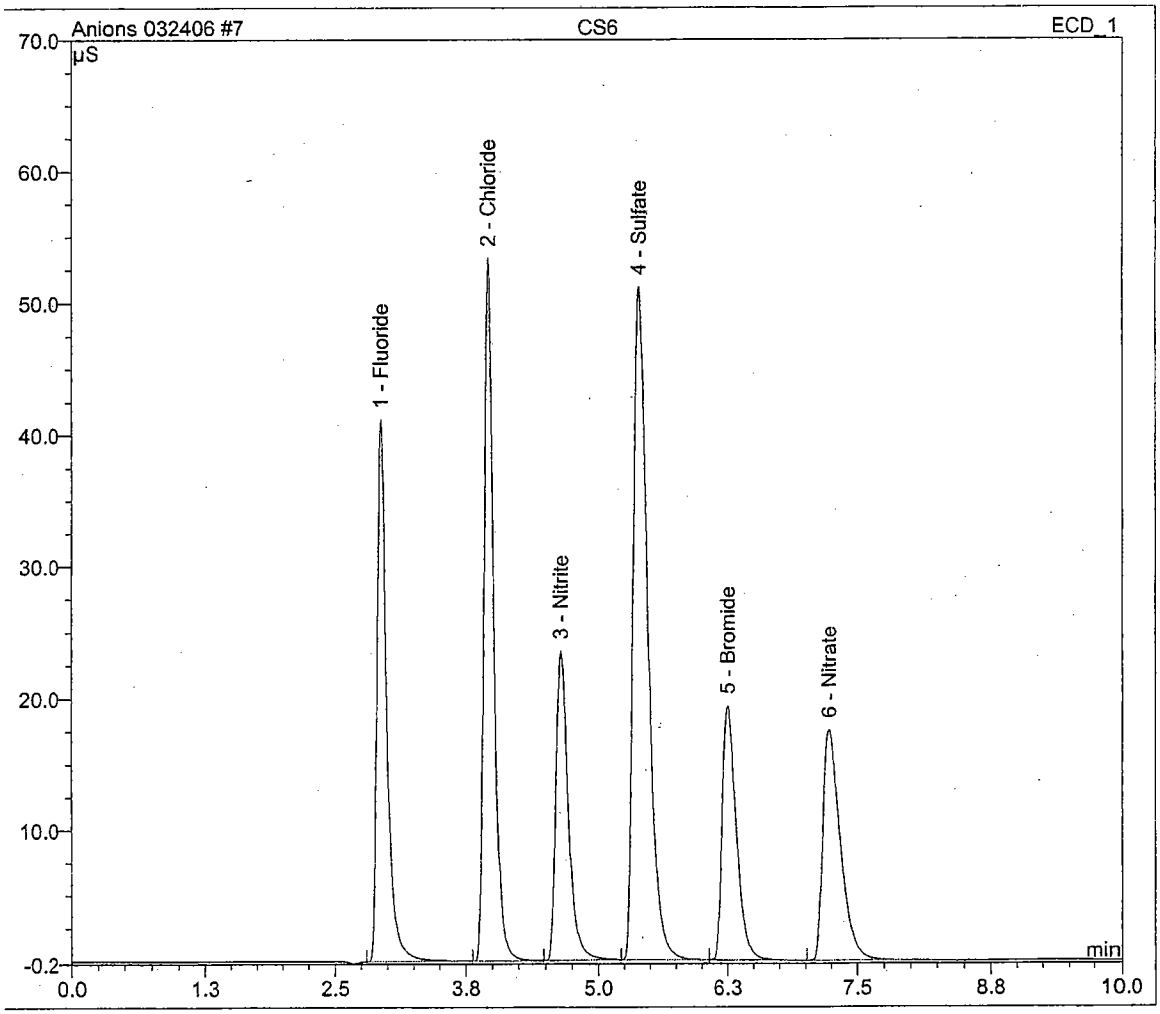
Sample Name:	**CS5**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**24.03.06 12:01**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	2.93	Fluoride	BMB	2.734	26.615	6.4280
2	3.96	Chloride	BMB	3.400	32.191	11.9479
3	4.65	Nitrite	BMB	1.955	14.988	3.1239
4	5.40	Sulfate	BMB	5.067	32.546	24.1283
5	6.27	Bromide	BMB	1.819	11.919	14.8553
6	7.25	Nitrate	BMB	2.082	11.158	2.9690
		TOTAL:		17.06	129.42	63.45



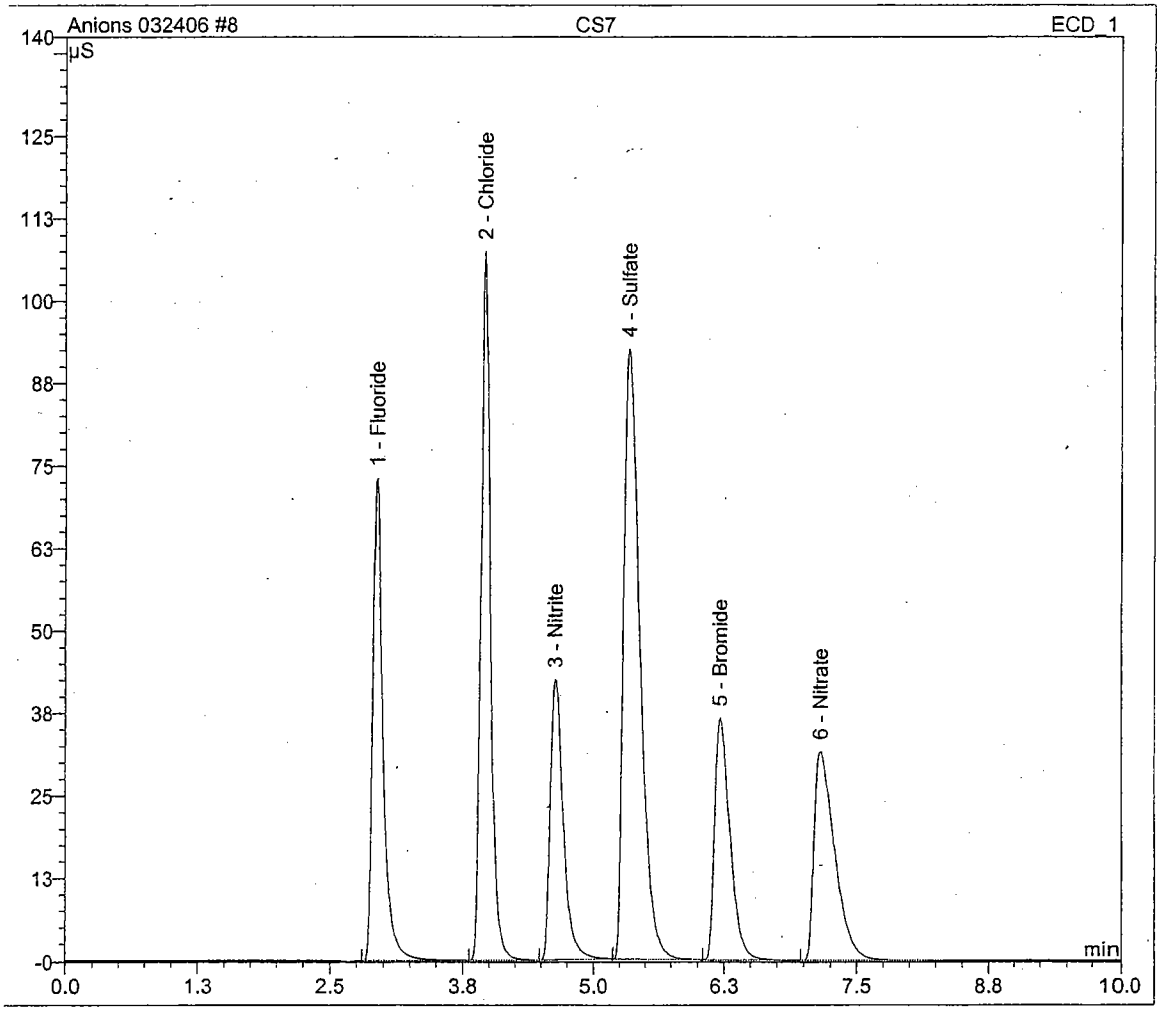
Sample Name:	**CS6**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**24.03.06 12:15**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	2.94	Fluoride	BMB	4.355	41.143	10.3835
2	3.96	Chloride	BMB	5.663	53.358	19.8352
3	4.65	Nitrite	BMB	3.176	23.496	5.1034
4	5.39	Sulfate	BMB	8.360	51.118	39.6824
5	6.25	Bromide	BMB	3.043	19.317	24.6562
6	7.23	Nitrate	BMB	3.486	17.550	4.9328
		TOTAL:		28.08	205.98	104.59



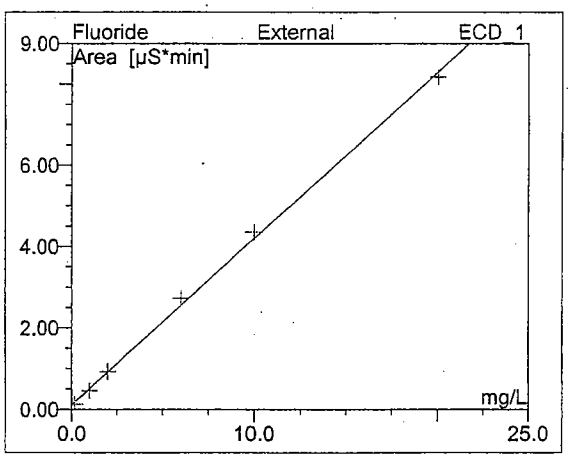
Sample Name:	**CS7**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**24.03.06 12:30**	*Run Time:*	**12.00**

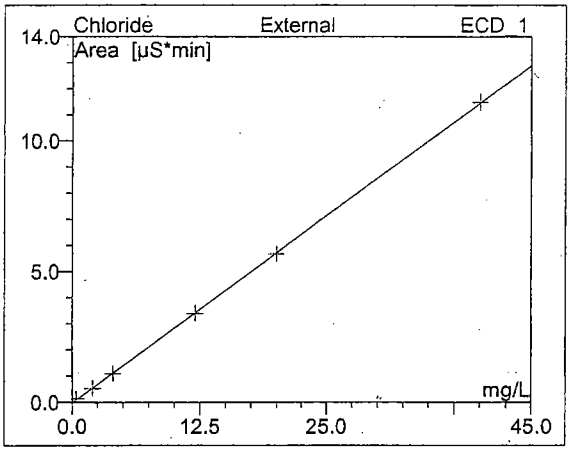
No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	2.94	Fluoride	BMB	8.169	73.137	19.6863
2	3.95	Chloride	BMB	11.479	107.485	40.1089
3	4.63	Nitrite	BMB	6.144	42.477	9.9151
4	5.34	Sulfate	BMB	16.926	92.485	80.1391
5	6.21	Bromide	BMB	6.239	36.633	50.2342
6	7.16	Nitrate	BMB	7.144	31.651	10.0472
		TOTAL:		56.10	383.87	210.13

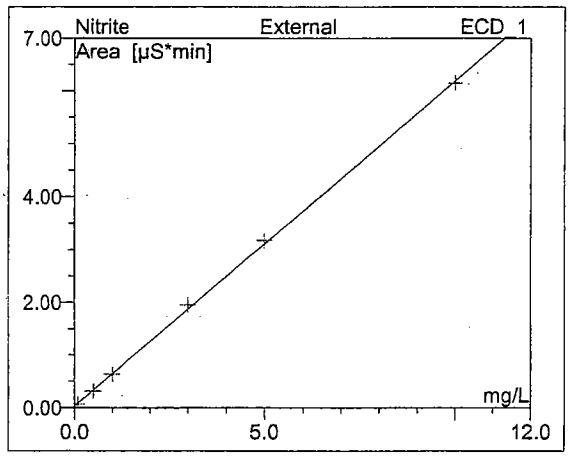


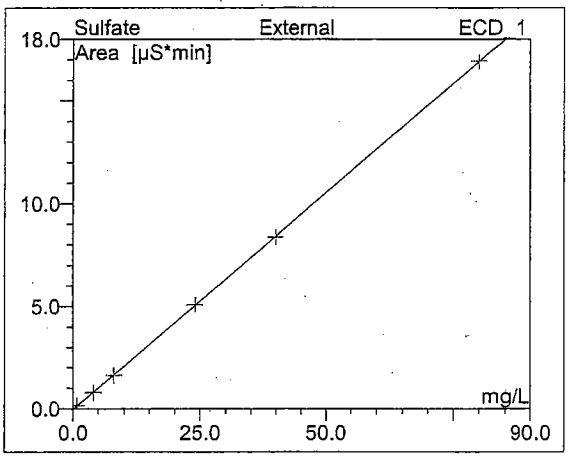
Calibration Batch Report

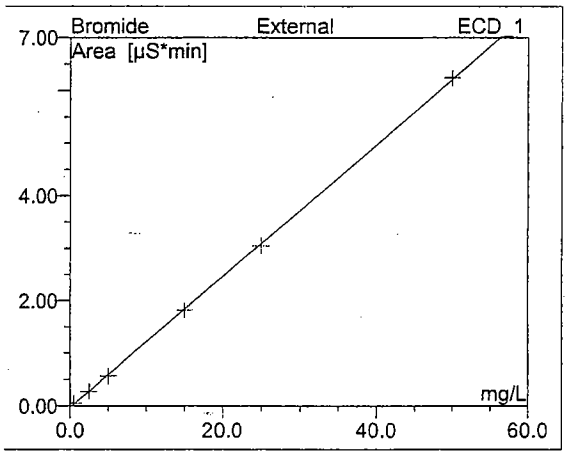
Sequence:	**Anions 032406**	Inj. Vol.:	**25.0**
Program:	**Anions_Program**	Operator:	**RDD-ACQU-WC-8**
Inj. Date/Time:	**03/24/06 12:30**	Run Time:	**12.00**

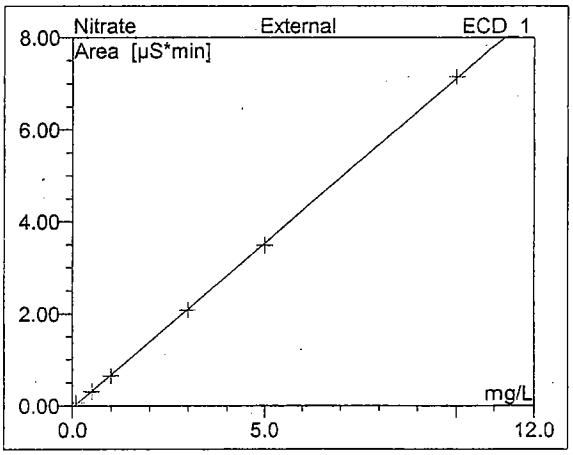












Sequence:	**Anions 032406**	*Inj. Vol.:*	**25.0**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**03/24/06 12:30**	*Run Time:*	**12.00**

No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	2.96	Fluoride	0LOff	5	0.005	0.465	0.000	99.999
2	4.01	Chloride	0LOff	8	-0.061	0.290	0.000	99.991
3	4.72	Nitrite	0LOff	7	0.008	0.665	0.000	99.992
4	5.48	Sulfate	0LOff	8	-0.082	0.218	0.000	99.995
5	6.43	Bromide	0LOff	7	-0.026	0.125	0.000	99.954
6	7.35	Nitrate	0LOff	6	-0.041	0.713	0.000	99.978
AVERAGE:					-0.0329	0.4126	0.0000	99.9846

No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	2.936666667	Fluoride	0LOff	6	0.098566	0.409952	0	99.92069854
2	3.953333333	Chloride	0LOff	6	-0.027994	0.286897	0	99.99653686
3	4.633333333	Nitrite	0LOff	6	0.027997	0.616848	0	99.97449426
4	5.336666667	Sulfate	0LOff	6	-0.042047	0.211734	0	99.99818463
5	6.21	Bromide	0LOff	6	-0.037602	0.124951	0	99.99348094

+0.00	6	7.156666667	Nitrate	0LOff	6	-0.041904	0.715254	0	99.99250475
-0.00									

Sequence: Anions 032406
Operator: RDDACQUWC8
Printed: 3/25/2006 12:03:58 PM

Title: Anions Calibration 092205
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\Anions 032406
Timebase: ICS-2000
#Samples: 68

Created: 3/24/2006 10:40:59 AM by RDDACQUWC8
Last Update: 3/24/2006 5:19:07 PM by RDDACQUWC8

No.	Name	Type	Pos.	Program	Method	Status	Inj. Date/Time
1	Rinse	Unknown	1	Anions_Program	Anions_Method	Finished	3/24/2006 10:48:10 AM
2	CS1	Standard	2	Anions_Program	Anions_Method	Finished	3/24/2006 11:02:46 AM
3	CS2	Standard	3	Anions_Program	Anions_Method	Finished	3/24/2006 11:17:23 AM
4	CS3	Standard	4	Anions_Program	Anions_Method	Finished	3/24/2006 11:31:59 AM
5	CS4	Standard	5	Anions_Program	Anions_Method	Finished	3/24/2006 11:46:36 AM
6	CS5	Standard	6	Anions_Program	Anions_Method	Finished	3/24/2006 12:01:12 PM
7	CS6	Standard	7	Anions_Program	Anions_Method	Finished	3/24/2006 12:15:49 PM
8	CS7	Standard	8	Anions_Program	Anions_Method	Finished	3/24/2006 12:30:25 PM
9	ICVS/LCS	Unknown	9	Anions_Program	Anions_Method	Finished	3/24/2006 12:45:02 PM
10	RL	Unknown	3	Anions_Program	Anions_Method	Finished	3/24/2006 12:59:38 PM
11	ICB	Unknown	4	Anions_Program	Anions_Method	Finished	3/24/2006 1:14:14 PM
12	MB	Unknown	5	Anions_Program	Anions_Method	Finished	3/24/2006 1:28:50 PM
13	LCSD	Unknown	5	Anions_Program	Anions_Method	Finished	3/24/2006 1:43:26 PM
14	AGEX MB	Unknown	6	Anions_Program	Anions_Method	Finished	3/24/2006 1:58:03 PM
15	L0600490-1	Unknown	7	Anions_Program	Anions_Method	Finished	3/24/2006 2:12:39 PM
16	L0600490-1 MS	Unknown	7	Anions_Program	Anions_Method	Finished	3/24/2006 2:27:16 PM
17	L0600490-1 MSD	Unknown	7	Anions_Program	Anions_Method	Finished	3/24/2006 2:41:52 PM
18	RINSE	Unknown	8	Anions_Program	Anions_Method	Finished	3/24/2006 2:56:29 PM
19	CCVS	Unknown	9	Anions_Program	Anions_Method	Finished	3/24/2006 3:11:05 PM
20	CCB	Unknown	10	Anions_Program	Anions_Method	Finished	3/24/2006 3:25:42 PM
21	D0600084-1.07	Unknown	11	Anions_Program	Anions_Method	Finished	3/24/2006 3:40:18 PM
22	D0600084-2	Unknown	12	Anions_Program	Anions_Method	Finished	3/24/2006 3:54:55 PM
23	D0600084-2 MS	Unknown	13	Anions_Program	Anions_Method	Finished	3/24/2006 4:09:31 PM
24	D0600084-2 MSD	Unknown	10	Anions_Program	Anions_Method	Finished	3/24/2006 4:24:08 PM
25	D0600084-3	Unknown	11	Anions_Program	Anions_Method	Finished	3/24/2006 4:38:44 PM
26	D0600084-4	Unknown	12	Anions_Program	Anions_Method	Finished	3/24/2006 4:53:20 PM
27	D0600084-5	Unknown	13	Anions_Program	Anions_Method	Finished	3/24/2006 5:07:57 PM
28	D0600084-6	Unknown	6	Anions_Program	Anions_Method	Finished	3/24/2006 5:22:33 PM
29	D0600084-7	Unknown	7	Anions_Program	Anions_Method	Finished	3/24/2006 5:37:09 PM
30	D0600084-8	Unknown	8	Anions_Program	Anions_Method	Finished	3/24/2006 5:51:45 PM
31	CCVS	Unknown	8	Anions_Program	Anions_Method	Finished	3/24/2006 6:06:21 PM
32	CCB	Unknown	9	Anions_Program	Anions_Method	Finished	3/24/2006 6:20:58 PM
33	D0600084-1.07	Unknown	8	Anions_Program	Anions_Method	Finished	3/24/2006 6:35:34 PM
34	D0600084-2	Unknown	9	Anions_Program	Anions_Method	Finished	3/24/2006 6:50:10 PM
35	D0600084-2 MS	Unknown	10	Anions_Program	Anions_Method	Finished	3/24/2006 7:04:47 PM
36	D0600084-2 MSD	Unknown	10	Anions_Program	Anions_Method	Finished	3/24/2006 7:19:23 PM
37	D0600084-3	Unknown	11	Anions_Program	Anions_Method	Finished	3/24/2006 7:34:00 PM
38	D0600084-4	Unknown	11	Anions_Program	Anions_Method	Finished	3/24/2006 7:48:36 PM
39	D0600084-5	Unknown	11	Anions_Program	Anions_Method	Finished	3/24/2006 8:03:12 PM
40	D0600084-6	Unknown	12	Anions_Program	Anions_Method	Finished	3/24/2006 8:17:49 PM
41	D0600084-7	Unknown	13	Anions_Program	Anions_Method	Finished	3/24/2006 8:32:25 PM
42	D0600084-8	Unknown	13	Anions_Program	Anions_Method	Finished	3/24/2006 8:47:02 PM

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Title: Anions Calibration 092205
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\Anions 032406
Timebase: ICS-2000
#Samples: 68
Created: 3/24/2006 10:40:59 AM by RDDACQUWC8
Last Update: 3/24/2006 5:19:07 PM by RDDACQUWC8

No.	Dil. Factor
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2	1.0000
3	1.0000
4	1.0000
5	1.0000
6	1.0000
7	1.0000
8	1.0000
9	1.0000
10	1.0000
11	1.0000
12	1.0000
13	1.0000
14	1.0000
15	5.0000
16	5.0000
17	5.0000
18	1.0000
19	1.0000
20	1.0000
21	1.0000
22	1.0000
23	1.1000
24	1.1000
25	1.0000
26	1.0000
27	1.0000
28	1.0000
29	1.0000
30	1.0000
31	1.0000
32	1.0000
33	5.0000
34	5.0000
35	5.0000
36	5.0000
37	5.0000
38	5.0000
39	5.0000
40	5.0000
41	5.0000
42	5.0000

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Title: Anions Calibration 092205
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\Anions 032406
Timebase: ICS-2000
#Samples: 68
Created: 3/24/2006 10:40:59 AM by RDDACQUWC8
Last Update: 3/24/2006 5:19:07 PM by RDDACQUWC8

No.	Name	Type	Pos.	Program	Method	Status	Inj. Date/Time
43	CCVS	Unknown	14	Anions_Program	Anions_Method	Finished	3/24/2006 9:01:38 PM
44	CCB	Unknown	15	Anions_Program	Anions_Method	Finished	3/24/2006 9:16:14 PM
45	D0600092-1.03	Unknown	16	Anions_Program	Anions_Method	Finished	3/24/2006 9:30:51 PM
46	D0600092-1 MS	Unknown	17	Anions_Program	Anions_Method	Finished	3/24/2006 9:45:27 PM
47	D0600092-1 MSD	Unknown	18	Anions_Program	Anions_Method	Finished	3/24/2006 10:00:03 PM
48	D0600092-2	Unknown	19	Anions_Program	Anions_Method	Finished	3/24/2006 10:14:39 PM
49	D0600092-3	Unknown	20	Anions_Program	Anions_Method	Finished	3/24/2006 10:29:16 PM
50	D0600092-4	Unknown	21	Anions_Program	Anions_Method	Finished	3/24/2006 10:43:52 PM
51	D0600092-5	Unknown	16	Anions_Program	Anions_Method	Finished	3/24/2006 10:58:29 PM
52	DH002001G	Unknown	17	Anions_Program	Anions_Method	Finished	3/24/2006 11:13:05 PM
53	DH002001G MS	Unknown	18	Anions_Program	Anions_Method	Finished	3/24/2006 11:27:41 PM
54	DH002001G MSD	Unknown	18	Anions_Program	Anions_Method	Finished	3/24/2006 11:42:17 PM
55	CCVS	Unknown	18	Anions_Program	Anions_Method	Finished	3/24/2006 11:56:54 PM
56	CCB	Unknown	19	Anions_Program	Anions_Method	Finished	3/25/2006 12:11:30 AM
57	DH005004G	Unknown	20	Anions_Program	Anions_Method	Finished	3/25/2006 12:26:07 AM
58	DH006001N	Unknown	21	Anions_Program	Anions_Method	Finished	3/25/2006 12:40:43 AM
59	DH006002N	Unknown	16	Anions_Program	Anions_Method	Finished	3/25/2006 12:55:20 AM
60	DH011001N	Unknown	17	Anions_Program	Anions_Method	Finished	3/25/2006 1:09:56 AM
61	DH011001N MS	Unknown	18	Anions_Program	Anions_Method	Finished	3/25/2006 1:24:33 AM
62	DH011001N MSD	Unknown	19	Anions_Program	Anions_Method	Finished	3/25/2006 1:39:09 AM
63	DH011002N	Unknown	18	Anions_Program	Anions_Method	Finished	3/25/2006 1:53:45 AM
64	DH011004N	Unknown	19	Anions_Program	Anions_Method	Finished	3/25/2006 2:08:22 AM
65	DH018001N	Unknown	20	Anions_Program	Anions_Method	Finished	3/25/2006 2:22:58 AM
66	CCVS	Unknown	21	Anions_Program	Anions_Method	Finished	3/25/2006 2:37:35 AM
67	CCB	Unknown	16	Anions_Program	Anions_Method	Finished	3/25/2006 2:52:11 AM
68	END	Unknown	14	Pump Shutdown	Anions_Method	Finished	3/25/2006 3:06:48 AM

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Title: Anions Calibration 092205
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\Anions 032406
Timebase: ICS-2000
#Samples: 68
Created: 3/24/2006 10:40:59 AM by RDDACQUWC8
Last Update: 3/24/2006 5:19:07 PM by RDDACQUWC8

No.	Dil. Factor
43	1.0000
44	1.0000
45	1.0000
46	1.1000
47	1.1000
48	1.0000
49	1.0000
50	1.0000
51	1.0000
52	2.0000
53	2.0000
54	2.0000
55	1.0000
56	1.0000
57	20.0000
58	10.0000
59	20.0000
60	10.0000
61	10.0000
62	10.0000
63	2.0000
64	20.0000
65	20.0000
66	1.0000
67	1.0000
68	1.0000

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Columbia Analytical Services - Redding, CA

Nitrate - Nitrite Nitrogen in Water by
Lachat Auto-Analyzer
EPA 353.2 (NO3+NO2), 354.1 (NO2)
Test Codes: NO3/2AW, NO3AW, NO2AW

Reporting Limit: 0.02 mg/L
Detection Limit: 0.005 mg/L

Spike Information

Spike ID	Conc	Spk mL	Sx mL
4199	25	0.2	10

Work Group #: NO3AW 060322
Analyst: M Pittman
Analysis Date: 03/22/2006@1659
Analyst Review: MF 3/23/06
Supervisor Review:

Sx Type	Reference Number	Analysis Date	Analysis Time	Cup Number	Repeat Number	DF	Raw Value	Final mg/L	Qual	MDL mg/L	RL mg/L	QC Value mg/L	True Value	%R	%RPD	Remarks			
	Cal Blank	3/22/2006	16:59	1	1	1	0	NO3/2-N											
	Cal Std 1	3/22/2006	17:01	2	1	1	0.02	or											
	Cal Std 2	3/22/2006	17:02	3	1	1	0.1	NO2-N								NO3-N Calculation			
	Cal Std 3	3/22/2006	17:03	4	1	1	0.8									Report	NO2-N	NO3-N	Qual
	Cal Std 4	3/22/2006	17:04	5	1	1	1									NO3-N	mg/L	mg/L	Qual
QC	ICVS	3/22/2006	17:05	6	1	1	0.504	0.504		0.005	0.020	0.5040	0.500	100.8					
QC	0.5 PPM NO2	3/22/2006	17:08	7	1	1	0.521	0.521		0.005	0.020	0.5210	0.500	104.2					
QC	ICB	3/22/2006	17:10	8	1	1	0.0009	0.005	U	0.005	0.020	0.0000							
QC	CCV	3/22/2006	17:11	4	1	1	0.803	0.803		0.005	0.020	0.8030	0.800	100.4					
QC	CCB	3/22/2006	17:14	1	1	1	0.0013	0.005	U	0.005	0.020	0.0000							
QC	MB	3/22/2006	17:16	9	1	1	0.001	0.005	U	0.005	0.020	0.0000							
QC	LCS	3/22/2006	17:18	10	1	1	0.506	0.506		0.005	0.020	0.5060	0.500	101.2					
LCSD	LCSD	3/22/2006	17:21	11	1	1	0.506	0.506		0.005	0.020	0.5060	0.500	101.2	0.0				
SX	DG948-1A	3/22/2006	17:23	12	1	1	0.723	0.723		0.005	0.020					X	0.004J	0.723	
SX	DG948-2A	3/22/2006	17:24	13	1	1	0.729	0.729		0.005	0.020					X	0.003J	0.729	
SX	DH005-1H	3/22/2006	17:26	14	1	1	0.111	0.111		0.005	0.020					X	0.006J	0.111	
SX	DH005-2H	3/22/2006	17:27	15	1	1	-0.0028	0.005	U	0.005	0.020					X	0.005J	0.005	U
SX	DH005-3H	3/22/2006	17:28	16	1	1	0.015	0.015	J	0.005	0.020					X	0.004J	0.015	J
SX	DH005-4H	3/22/2006	17:29	17	1	1	0.046	0.046		0.005	0.020					X	0.003J	0.046	
SX	DH005-5H	3/22/2006	17:30	18	1	10	0.643	6.430		0.050	0.200					X	0.004J	6.430	
QC	CCV	3/22/2006	17:32	4	2	1	0.81	0.810		0.005	0.020	0.8100	0.800	101.3					
QC	CCB	3/22/2006	17:34	1	2	1	0.0011	0.005	U	0.005	0.020	0.0000							
SX	DH005-6H	3/22/2006	17:36	19	1	5	0.47	2.350		0.025	0.100					X	0.025	2.330	
SX	DH009-1S	3/22/2006	17:37	20	1	10	0.593	5.930		0.050	0.200					X	0.01J	5.930	
SX	DH009-2S	3/22/2006	17:39	21	1	1	1.65	1.650		0.005	0.020					X	0.027	1.620	
SX	DH009-3S	3/22/2006	17:40	22	1	5	1.04	5.200		0.025	0.100					X	0.011J	5.200	
SX	DH009-4S	3/22/2006	17:41	23	1	1	-0.001	0.005	U	0.005	0.020					X	0.002U	0.005	U
QC	DH011-1K	3/22/2006	17:42	24	1	10	3.31	33.100		0.050	0.200	33.1000							
MS	DH011-1MS	3/22/2006	17:44	25	1	10	3.64	36.400		0.050	0.200	36.4000	5.000	66.0					
MSD	DH011-1MSD	3/22/2006	17:45	26	1	10	3.72	37.200		0.050	0.200	37.2000	5.000	82.0	2.2				

Columbia Analytical Services - Redding, CA

Nitrate - Nitrite Nitrogen in Water by
Lachat Auto-Analyzer
EPA 353.2 (NO3+NO2), 354.1 (NO2)
Test Codes: NO3/2AW, NO3AW, NO2AW

Reporting Limit: 0.02 mg/L
Detection Limit: 0.005 mg/L

Spike Information

Spike ID	Conc	Spk mL	Sx mL
4199	25	0.2	10

Work Group #: NO3AW 060322
Analyst: M Pittman
Analysis Date: 03/22/2006@1659
Analyst Review: MP 3/23/06
Supervisor Review:

Sx Type	Reference Number	Analysis Date	Analysis Time	Cup Number	Repeat Number	DF	Raw Value	Final mg/L	Qual	MDL mg/L	RL mg/L	QC Value mg/L	True Value	%R	%RPD	Remarks			
SX	DH011-2K	3/22/2006	17:46	27	1	10	1.63	16.300		0.050	0.200								
SX	DH011-3K	3/22/2006	17:47	28	1	10	1.84	18.400		0.050	0.200								
QC	CCV	3/22/2006	17:48	4	3	1	0.806	0.806		0.005	0.020	0.8060	0.800	100.8					
QC	CCB	3/22/2006	17:51	1	3	1	0.0009	0.005	U	0.005	0.020	0.0000							
SX	DH011-4K	3/22/2006	17:53	29	1	10	0.687	6.870		0.050	0.200								
SX	DH014-1M	3/22/2006	17:54	30	1	1	0.0183	0.018	J	0.005	0.020								
SX	DH014-2M	3/22/2006	17:55	31	1	1	0.0054	0.005	J	0.005	0.020								
QC	MB#2	3/22/2006	17:57	32	1	1	0.0013	0.005	U	0.005	0.020	0.0000							
QC	LCS#2	3/22/2006	17:59	33	1	1	0.507	0.507		0.005	0.020	0.5070	0.500	101.4					
QC	LCSD#2	3/22/2006	18:01	34	1	1	0.507	0.507		0.005	0.020	0.5070	0.500	101.4					
SX	DH014-3M	3/22/2006	18:04	35	1	1	0.0051	0.005	J	0.005	0.020								
SX	DH014-4M	3/22/2006	18:05	36	1	1	0.0662	0.066		0.005	0.020								
SX	DH018-1M	3/22/2006	18:06	37	1	1	0.556	0.556		0.005	0.020								
SX	DH018-2M	3/22/2006	18:07	38	1	1	0.0056	0.006	J	0.005	0.020								
QC	CCV	3/22/2006	18:09	4	4	1	0.81	0.810		0.005	0.020	0.8100	0.800	101.3					
QC	CCB	3/22/2006	18:11	1	4	1	0.0017	0.005	U	0.005	0.020	0.0000							
SX	DH018-3M	3/22/2006	18:13	39	1	1	0.0041	0.005	U	0.005	0.020								
SX	DH020-3G	3/22/2006	18:15	40	1	1	0.755	0.755		0.005	0.020					X	0.003J	0.755	
SX	DH020-4G	3/22/2006	18:16	41	1	1	0.966	0.966		0.005	0.020					X	0.004J	0.966	
SX	DH020-5G	3/22/2006	18:17	42	1	1	1.22	1.220		0.005	0.020					X	0.003J	1.220	
QC	DH028-1A	3/22/2006	18:18	43	1	1	0.371	0.371		0.005	0.020	0.3710				X	0.017J	0.371	
MS	DH028-1MS	3/22/2006	18:19	44	1	1	0.872	0.872		0.005	0.020	0.8720	0.500	100.2		X	0.017J	0.872	
MSD	DH028-1MSD	3/22/2006	18:21	45	1	1	0.875	0.875		0.005	0.020	0.8750	0.500	100.8	0.3	X	0.017J	0.875	
SX	DH028-2A	3/22/2006	18:22	46	1	1	0.522	0.522		0.005	0.020					X	0.012J	0.522	
SX	DH031-1A	3/22/2006	18:23	47	1	1	0.302	0.302		0.005	0.020					X	0.026	0.276	
SX	DH031-2A	3/22/2006	18:24	48	1	1	0.126	0.126		0.005	0.020					X	0.118	0.008	J
QC	CCV	3/22/2006	18:25	4	5	1	0.81	0.810		0.005	0.020	0.8100	0.800	101.3					
QC	CCB	3/22/2006	18:28	1	5	1	0.0026	0.005	U	0.005	0.020	0.0000							
SX	DH031-3A	3/22/2006	18:30	49	1	1	0.316	0.316		0.005	0.020					X	0.019J	0.316	
SX	DH031-4A	3/22/2006	18:31	50	1	1	0.307	0.307		0.005	0.020					X	0.02	0.287	

Columbia Analytical Services - Redding, CA

Work Group #: NO2 20060309
Analyst: LSMITH
Analysis Date & Time: 3/9/06 @ 0845
Analyst Review: LD 3/23/06
Supervisor Review: CAS 3-24-06

Nitrite Nitrogen in Water
EPA 354.1
Test Codes: NO2

Reporting Limit: 0.02 mg/L
Detection Limit: 0.002 mg/L

Spike Information

Spike ID	Conc	Spk mL	Sx mL
G38375	1.00	1.00	10.0

No.	Reference Number	Sx Type	HT met	mLs color.	Blank Sx Abs.	Sx/Reag Abs.	Initial mg/L	Dil. Factor	Final mg/L	Qual	MDL mg/L	RL mg/L	QC Value mg/L	True Value	%R	%RPD
CB	DI	C		10		0.000								0.000		
CS1	G38375	C		10		0.022								0.010		
CS2	G38375	C		10		0.046								0.020		
CS3	G38375	C		10		0.269								0.100		
CS4	G38375	C		10		0.561								0.200		
ICV	G38376 /LCS	QC		10		0.416	0.1498	1	0.150		0.002	0.020	0.1498	0.150	99.9	
ICB	ICB	QC		10		0.004	0.0037	1	0.004	J	0.002	0.020	0.0037			
MB	MB	QC		10		0.002	0.0030	1	0.003	J	0.002	0.020	0.0030			
LCS	G38376	QC		10		0.454	0.1633	1	0.163		0.002	0.020	0.1633	0.150	108.9	8.6
QC	DH005001G	QC	Yes	10	0.002	0.011	0.0055	1	0.006	J	0.002	0.020	0.0055			
MS	DH005001G MS	MS	Yes	11	0.002	0.285	0.1027	1.1	0.113		0.002	0.022	0.1129	0.100	107.4	
MSD	DH005001G MSD	MSD	Yes	11	0.002	0.271	0.0977	1.1	0.110		0.002	0.022	0.1070	0.100	101.5	
sx	DH005002G	Sx	Yes	10	0.008	0.015	0.0048	1	0.005	J	0.002	0.020				
sx	DH005003G	Sx	Yes	10	0.000	0.006	0.0045	1	0.004	J	0.002	0.020				
sx	DH005004G	Sx	Yes	10	0.000	0.003	0.0034	1	0.003	J	0.002	0.020				
sx	DH005005H	Sx	Yes	10	0.000	0.005	0.0041	1	0.004	J	0.002	0.020				
sx	DH005006H	Sx	Yes	10	-0.001	0.064	0.0254	1	0.025		0.002	0.020				
sx																
CCVS	CCVS	QC		10	0.000	0.279	0.1012	1	0.101		0.002	0.020	0.1012	0.100	101.2	
CCB	CCB	QC		10	0.000	0.002	0.0030	1	0.003	J	0.002	0.020	0.0030			
sx																
sx																
sx																
sx																
CCVS																

Linear Regression Data	
r:	0.9998
m :	0.355
b :	0.0023

Sx Remarks

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Columbia Analytical Services - Redding, CA

Total Dissolved Solids in Water

Gravimetric, 180C Reporting Limit: 20 mg/L

EPA 160.1 Detection Limit: 13 mg/L

Test Codes: TDS

Work Group #:	TDS 060314
Analyst:	LS
Analysis Date:	3/14/06 @ 1700
Analyst Review:	LD 3/26/06
Supervisor Review:	

Sx Type	Reference Number	Cup No.	Sample Vol. mL	Initial Wt. Gram	Final Wt. #1 g	Final Wt. #2 g	Wt. Verified	Dilution Factor	Final mg/L	Qual	MDL mg/L	RL mg/L	QC Value mg/L	True Value	%R	%RPD	Remarks
	VERIFICATION	1	100	99.9997	99.9986	99.9988											
QC	MB	2	100	46.2967	46.3026	46.3025	pass	1	59		13	20	59				
QC	LCS	3	100	50.0507	50.1118	50.1141	pass	1	611		13	20	611	575	106.3		
LCSD	LCSD	4	100	134.7643	134.8352	134.8356	pass	1	709		13	20	709	575	123.3	14.8	
Sx	DH005001G	5	50	49.4523	49.4616	49.4613	pass	2	186		26	40					
Sx	DH005002G	6	20	82.2481	82.2715	82.2710	pass	5	1170		65	100					
Sx	DH005003G	7	100	81.3046	81.3744	81.3756	pass	1	698		13	20					
Sx	DH005003G DUP	8	100	79.9882	80.0571	80.0594	pass	1	689		13	20					
Sx	DH005004G	9	50	72.9131	73.0494	73.0508	pass	2	2730		26	40					
Sx	DH005005G	10	100	66.0520	66.1502	66.1514	pass	1	982		13	20					
Sx	DH005006G	11	100	135.1359	135.2428	135.2461	pass	1	1070		13	20					

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: E160.1 Matrix: Water

Instrument ID: _____

Concentration Units (ug/L or mg/kg): MG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
Total Dissolved Solids	04/19/2005	50	59	59	61	62	53	64	55	51	4.6	13

MDL FORM Method E160.1

RDD-060328:CS:BS-1639PST-SR:DH060005-DH005-W

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: SW9060 Matrix: Water

Instrument ID: _____

Concentration Units (ug/L or mg/kg): MG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
Total Organic Carbon	05/02/2005	0.50	0.51	0.47	0.44	0.40	0.44	0.43	0.43	0.43	0.033	0.10

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: E300 Matrix: Water

Instrument ID: ICS2000

Concentration Units (ug/L or mg/kg): MG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
Sulfate	08/20/2005	0.20	0.376	0.375	0.372	0.374	0.374	0.372	0.370	0.372	0.0020	0.20
Chloride	08/20/2005	0.50	0.558	0.607	0.625	0.643	0.509	0.511	0.496	0.519	0.059	0.18
Fluoride	08/20/2005	0.13	0.093	0.095	0.094	0.119	0.092	0.114	0.113	0.114	0.012	0.035

Method Detection Limit Study

Columbia Analytical Services
Redding, CA

Analysis Method:	EPA 353.2	**Analyst:**	M.PITTMAN
Extraction Method:	N/A	**Instrument:**	Lachat Auto-Analyzer
Matrix/Amount:	Water	**Column:**	N/A
MDL Effective Date:	6/24/2005	**Dept:**	GN

Raw Data

#	Compound	Date	MDL	[mg/L]	1	2	3	4	5	6	7	8	Mean	Std Dev
1	Nitrate-Nitrite	6/24/2005	0.0029	0.010	0.0149	0.0158	0.0141	0.0139	0.0154	0.0135	0.0142	0.0132	0.0144	0.00091

Method Detection Limit Study

Columbia Analytical Services
Redding, CA

Analysis Method:	E310.1	**Analyst:**	c.skillern
Extraction Method:	NONE	**Instrument:**	
Matrix:	WATER	**Description:**	Alkalinity
MDL Effective Date:	2/9/2005	**Deptartment:**	GN

#	Compound	CAS No.	Date	MDL
	Alkalinity	ALK	2/9/2005	2

MG/L	1	2	3	4	5	6	7
10.0	13.0	12.0	13.0	14.0	13.0	13.0	13.0

Mean	Std Dev
13.000	0.58

Method Detection Limit Study

Columbia Analytical Services
Redding, CA

Analysis Method:	EPA 354.1	**Analyst:**	B.Coleman
Extraction Method:	N/A	**Instrument:**	N/A
Matrix/Amount:	Water	**Dept:**	GN
MDL Effective Date:	7/14/2005		

#	Compound	Date	MDL
1	Nitrite- NO2	7/14/2005	0.0010

Raw Data

[mg/L]	1	2	3	4	5	6	7
0.010	0.0111	0.0114	0.0107	0.0111	0.0107	0.0114	0.0107

Mean	Std Dev
0.011	0.0003

Metals

Sample Results

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Collected:**	03/07/2006
Sample Matrix:	Water	**Date Received:**	03/08/2006

Trace Metals

Sample Name: 1047MW101CL
Lab Code: DH005001
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
Aluminum	FLDFLT	SW6010	100	1	03/11/2006	03/13/2006	ND	U
Antimony	FLDFLT	SW6020	2.0	1	03/11/2006	03/31/2006	ND	U
Arsenic	FLDFLT	SW6020	2.0	1	03/11/2006	04/01/2006	ND	U
Cadmium	FLDFLT	SW6020	1.0	1	03/11/2006	04/01/2006	ND	U
Calcium	FLDFLT	SW6010	500	1	03/11/2006	03/13/2006	5000	
Chromium	FLDFLT	SW6010	10.0	1	03/11/2006	03/13/2006	ND	U
Copper	FLDFLT	SW6020	2.0	1	03/11/2006	04/03/2006	ND	U
Iron	FLDFLT	SW6010	100	1	03/11/2006	03/13/2006	ND	U
Lead	FLDFLT	SW6020	1.00	1	03/11/2006	04/03/2006	ND	U
Magnesium	FLDFLT	SW6010	500	1	03/11/2006	03/13/2006	4700	
Manganese	FLDFLT	SW6010	10.0	1	03/11/2006	03/13/2006	ND	U
Nickel	FLDFLT	SW6020	2.0	1	03/11/2006	04/03/2006	ND	U
Potassium	FLDFLT	SW6010	5000	1	03/11/2006	03/13/2006	ND	U
Sodium	FLDFLT	SW6010	5000	1	03/11/2006	03/13/2006	ND	U
Zinc	FLDFLT	SW6010	20.0	1	03/11/2006	03/13/2006	ND	U

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: 03/07/2006
Date Received: 03/08/2006

Trace Metals

Sample Name: 1065PZ5ARCL
Lab Code: DH005002
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
Aluminum	FLDFLT	SW6010	100	1	03/11/2006	03/13/2006	ND	U
Antimony	FLDFLT	SW6020	2.0	1	03/11/2006	03/31/2006	ND	U
Arsenic	FLDFLT	SW6020	2.0	1	03/11/2006	04/01/2006	15.0	
Cadmium	FLDFLT	SW6020	1.0	1	03/11/2006	04/01/2006	ND	U
Calcium	FLDFLT	SW6010	500	1	03/11/2006	03/13/2006	80000	
Chromium	FLDFLT	SW6010	10.0	1	03/11/2006	03/13/2006	ND	U
Copper	FLDFLT	SW6020	2.0	1	03/11/2006	04/03/2006	ND	U
Iron	FLDFLT	SW6010	100	1	03/11/2006	03/13/2006	13000	
Lead	FLDFLT	SW6020	1.00	1	03/11/2006	04/03/2006	ND	U
Magnesium	FLDFLT	SW6010	500	1	03/11/2006	03/13/2006	86000	
Manganese	FLDFLT	SW6010	10.0	1	03/11/2006	03/13/2006	2100	
Nickel	FLDFLT	SW6020	2.0	1	03/11/2006	04/03/2006	5.5	
Potassium	FLDFLT	SW6010	5000	1	03/11/2006	03/13/2006	6000	
Sodium	FLDFLT	SW6010	5000	1	03/11/2006	03/13/2006	99000	
Zinc	FLDFLT	SW6010	20.0	1	03/11/2006	03/13/2006	ND	U

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: 03/07/2006
Date Received: 03/08/2006

Trace Metals

Sample Name: 610GW103CL
Lab Code: DH005003
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
Aluminum	FLDFLT	SW6010	100	1	03/11/2006	03/13/2006	ND	U
Arsenic	FLDFLT	SW6020	2.0	1	03/11/2006	04/01/2006	4.7	
Cadmium	FLDFLT	SW6020	1.0	1	03/11/2006	04/01/2006	ND	U
Calcium	FLDFLT	SW6010	500	1	03/11/2006	03/13/2006	77000	
Chromium	FLDFLT	SW6010	10.0	1	03/11/2006	03/13/2006	ND	U
Copper	FLDFLT	SW6020	2.0	1	03/11/2006	04/03/2006	2.2	
Iron	FLDFLT	SW6010	100	1	03/11/2006	03/13/2006	410	
Lead	FLDFLT	SW6020	1.00	1	03/11/2006	04/03/2006	ND	U
Magnesium	FLDFLT	SW6010	500	1	03/11/2006	03/13/2006	52000	
Manganese	FLDFLT	SW6010	10.0	1	03/11/2006	03/13/2006	960	
Nickel	FLDFLT	SW6020	2.0	1	03/11/2006	04/03/2006	8.3	
Potassium	FLDFLT	SW6010	5000	1	03/11/2006	03/13/2006	9000	
Sodium	FLDFLT	SW6010	5000	1	03/11/2006	03/13/2006	100000	
Zinc	FLDFLT	SW6010	20.0	1	03/11/2006	03/13/2006	ND	U

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Collected:**	03/07/2006
Sample Matrix:	Water	**Date Received:**	03/08/2006

Trace Metals

Sample Name: LF4GW103CL
Lab Code: DH005004
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
Aluminum	FLDFLT	SW6010	100	1	03/11/2006	03/13/2006	ND	U
Arsenic	FLDFLT	SW6020	2.0	1	03/11/2006	04/01/2006	2.9	
Cadmium	FLDFLT	SW6020	1.0	1	03/11/2006	04/01/2006	ND	U
Calcium	FLDFLT	SW6010	500	1	03/11/2006	03/13/2006	160000	
Chromium	FLDFLT	SW6010	10.0	1	03/11/2006	03/13/2006	ND	U
Copper	FLDFLT	SW6020	2.0	1	03/11/2006	04/03/2006	2.3	
Iron	FLDFLT	SW6010	100	1	03/11/2006	03/13/2006	ND	U
Lead	FLDFLT	SW6020	1.00	1	03/11/2006	04/03/2006	ND	U
Magnesium	FLDFLT	SW6010	500	1	03/11/2006	03/13/2006	470000	
Manganese	FLDFLT	SW6010	10.0	1	03/11/2006	03/13/2006	79.0	
Nickel	FLDFLT	SW6020	2.0	1	03/11/2006	04/03/2006	133	
Potassium	FLDFLT	SW6010	5000	1	03/11/2006	03/13/2006	ND	U
Sodium	FLDFLT	SW6010	5000	1	03/11/2006	03/13/2006	190000	
Zinc	FLDFLT	SW6010	20.0	1	03/11/2006	03/13/2006	ND	U

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: 03/07/2006
Date Received: 03/08/2006

Trace Metals

Sample Name: LF5GW104CL
Lab Code: DH005005
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
Aluminum	FLDFLT	SW6010	100	1	03/11/2006	03/13/2006	ND	U
Antimony	FLDFLT	SW6020	2.0	1	03/11/2006	03/31/2006	ND	U
Arsenic	FLDFLT	SW6020	2.0	1	03/11/2006	04/01/2006	ND	U
Barium	FLDFLT	SW6010	10.0	1	03/11/2006	03/13/2006	130	
Beryllium	FLDFLT	SW6020	1.0	1	03/11/2006	04/03/2006	ND	U
Cadmium	FLDFLT	SW6020	1.0	1	03/11/2006	04/01/2006	ND	U
Calcium	FLDFLT	SW6010	500	1	03/11/2006	03/13/2006	38000	
Chromium	FLDFLT	SW6010	10.0	1	03/11/2006	03/13/2006	40.0	
Cobalt	FLDFLT	SW6020	1.0	1	03/11/2006	04/03/2006	ND	U
Copper	FLDFLT	SW6020	2.0	1	03/11/2006	04/03/2006	ND	U
Iron	FLDFLT	SW6010	100	1	03/11/2006	03/13/2006	ND	U
Lead	FLDFLT	SW6020	1.00	1	03/11/2006	04/03/2006	ND	U
Magnesium	FLDFLT	SW6010	500	1	03/11/2006	03/13/2006	130000	
Manganese	FLDFLT	SW6010	10.0	1	03/11/2006	03/13/2006	ND	U
Mercury	FLDFLT	SW7470	0.200	1	03/12/2006	03/12/2006	0.625	
Nickel	FLDFLT	SW6020	2.0	1	03/11/2006	04/03/2006	4.8	
Potassium	FLDFLT	SW6010	5000	1	03/11/2006	03/13/2006	ND	U
Selenium	FLDFLT	SW6020	2.0	1	03/11/2006	04/01/2006	2.9	
Silver	FLDFLT	SW6020	1.0	1	03/11/2006	03/31/2006	ND	U
Sodium	FLDFLT	SW6010	5000	1	03/11/2006	03/13/2006	150000	
Thallium	FLDFLT	SW6020	1.0	1	03/11/2006	04/13/2006	ND	U
Vanadium	FLDFLT	SW6010	10.0	1	03/11/2006	03/13/2006	ND	U
Zinc	FLDFLT	SW6010	20.0	1	03/11/2006	03/13/2006	ND	U

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Collected:**	03/07/2006
Sample Matrix:	Water	**Date Received:**	03/08/2006

Trace Metals

Sample Name: 1349MW102CL
Lab Code: DH005006
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
Aluminum	FLDFLT	SW6010	100	1	03/11/2006	03/13/2006	ND	U
Antimony	FLDFLT	SW6020	2.0	1	03/11/2006	03/31/2006	ND	U
Arsenic	FLDFLT	SW6020	2.0	1	03/11/2006	04/01/2006	ND	U
Barium	FLDFLT	SW6010	10.0	1	03/11/2006	03/13/2006	57.0	
Beryllium	FLDFLT	SW6020	1.0	1	03/11/2006	04/13/2006	ND	U
Cadmium	FLDFLT	SW6020	1.0	1	03/11/2006	04/01/2006	ND	U
Calcium	FLDFLT	SW6010	500	1	03/11/2006	03/13/2006	52000	
Chromium	FLDFLT	SW6010	10.0	1	03/11/2006	03/13/2006	ND	U
Cobalt	FLDFLT	SW6020	1.0	1	03/11/2006	04/03/2006	ND	U
Copper	FLDFLT	SW6020	2.0	1	03/11/2006	04/03/2006	2.7	
Iron	FLDFLT	SW6010	100	1	03/11/2006	03/13/2006	ND	U
Lead	FLDFLT	SW6020	1.00	1	03/11/2006	04/03/2006	ND	U
Magnesium	FLDFLT	SW6010	500	1	03/11/2006	03/13/2006	110000	
Manganese	FLDFLT	SW6010	10.0	1	03/11/2006	03/13/2006	160	
Mercury	FLDFLT	SW7470	0.200	1	03/12/2006	03/12/2006	ND	U
Nickel	FLDFLT	SW6020	2.0	1	03/11/2006	04/03/2006	5.4	
Potassium	FLDFLT	SW6010	5000	1	03/11/2006	03/13/2006	ND	U
Selenium	FLDFLT	SW6020	2.0	1	03/11/2006	04/01/2006	2.3	
Silver	FLDFLT	SW6020	1.0	1	03/11/2006	03/31/2006	ND	U
Sodium	FLDFLT	SW6010	5000	1	03/11/2006	03/13/2006	230000	
Thallium	FLDFLT	SW6020	1.0	1	03/11/2006	04/13/2006	ND	U
Vanadium	FLDFLT	SW6010	10.0	1	03/11/2006	03/13/2006	ND	U
Zinc	FLDFLT	SW6010	20.0	1	03/11/2006	03/13/2006	ND	U

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QA Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Trace Metals

Sample Name: Method Blank
Lab Code: PBW-0311
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
Aluminum	FLDFLT	SW6010	100.0	1	03/11/2006	03/13/2006	ND	U
Antimony	FLDFLT	SW6020	2.000	1	03/11/2006	03/31/2006	ND	U
Arsenic	FLDFLT	SW6020	2.000	1	03/11/2006	04/01/2006	ND	U
Barium	FLDFLT	SW6010	10.0	1	03/11/2006	03/13/2006	ND	U
Beryllium	FLDFLT	SW6020	1.000	1	03/11/2006	04/03/2006	ND	U
Cadmium	FLDFLT	SW6020	1.000	1	03/11/2006	04/01/2006	ND	U
Calcium	FLDFLT	SW6010	500.0	1	03/11/2006	03/13/2006	ND	U
Chromium	FLDFLT	SW6010	10.0	1	03/11/2006	03/13/2006	ND	U
Cobalt	FLDFLT	SW6020	1.000	1	03/11/2006	04/03/2006	ND	U
Copper	FLDFLT	SW6020	2.000	1	03/11/2006	04/03/2006	ND	U
Iron	FLDFLT	SW6010	100.0	1	03/11/2006	03/13/2006	ND	U
Lead	FLDFLT	SW6020	1.000	1	03/11/2006	04/03/2006	ND	U
Magnesium	FLDFLT	SW6010	500.0	1	03/11/2006	03/13/2006	ND	U
Manganese	FLDFLT	SW6010	10.0	1	03/11/2006	03/13/2006	ND	U
Nickel	FLDFLT	SW6020	2.000	1	03/11/2006	04/03/2006	ND	U
Potassium	FLDFLT	SW6010	5000.0	1	03/11/2006	03/13/2006	ND	U
Selenium	FLDFLT	SW6020	2.000	1	03/11/2006	04/01/2006	ND	U
Silver	FLDFLT	SW6020	1.000	1	03/11/2006	03/31/2006	ND	U
Sodium	FLDFLT	SW6010	5000.0	1	03/11/2006	03/13/2006	ND	U
Thallium	FLDFLT	SW6020	1.000	1	03/11/2006	04/13/2006	ND	U
Vanadium	FLDFLT	SW6010	10.0	1	03/11/2006	03/13/2006	ND	U
Zinc	FLDFLT	SW6010	20.0	1	03/11/2006	03/13/2006	ND	U

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QA Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Trace Metals

Sample Name: Method Blank
Lab Code: PBW-0312
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
Mercury	FLDFLT	SW7470	0.20	1	03/12/2006	03/12/2006	ND	U

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Extracted:**	03/11/2006
Sample Matrix:	Water	**Date Analyzed:**	03/13/2006

Trace Metals

LCS Sample Name:	Lab Control Sample		
Lab Code:	LCSW-0311	Units:	ug/L (ppb)
Test Notes:		Basis:	NA

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result	Spike % Rec	CAS Acceptance Limits	Result Notes
Aluminum	FLDFLT	SW6010	100.0	2000.0	2120.0	106	80-120	
Antimony	FLDFLT	SW6020	20.000	1000.0	1190.0	119	80-120	
Arsenic	FLDFLT	SW6020	2.000	20.0	19.500	98	80-120	
Barium	FLDFLT	SW6010	10.0	1000.0	1120.0	112	80-120	
Calcium	FLDFLT	SW6010	500.0	1000.0	1080.0	108	80-120	
Chromium	FLDFLT	SW6010	10.0	500.0	553.0	111	80-120	
Lead	FLDFLT	SW6020	1.000	20.0	19.300	96	80-120	
Iron	FLDFLT	SW6010	100.0	1000.0	1130.0	113	80-120	
Magnesium	FLDFLT	SW6010	500.0	1000.0	1110.0	111	80-120	
Manganese	FLDFLT	SW6010	10.0	1000.0	1100.0	110	80-120	
Selenium	FLDFLT	SW6020	2.000	100.0	96.400	96	80-120	
Potassium	FLDFLT	SW6010	5000.0	10000.0	10500.0	105	80-120	
Sodium	FLDFLT	SW6010	5000.0	2000.0	2183.0	109	80-120	
Vanadium	FLDFLT	SW6010	10.0	1000.0	1050.0	105	80-120	
Zinc	FLDFLT	SW6010	20.0	1000.0	1070.0	107	80-120	
Cadmium	FLDFLT	SW6020	1.000	20.0	18.800	94	80-120	
Cobalt	FLDFLT	SW6020	1.000	20.0	19.600	98	80-120	
Copper	FLDFLT	SW6020	2.000	20.0	19.500	98	80-120	
Nickel	FLDFLT	SW6020	2.000	20.0	19.500	98	80-120	
Silver	FLDFLT	SW6020	10.000	250.0	274.000	110	80-120	
Thallium	FLDFLT	SW6020	1.000	20.0	20.800	104	80-120	
Beryllium	FLDFLT	SW6020	1.000	20.0	19.300	96	80-120	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Extracted: 03/11/2006
Date Analyzed: 03/13/2006

Trace Metals

LCS Sample Name: Lab Control Sample
Lab Code: LCSDW-0311
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result	Spike % Rec	CAS Acceptance Limits	Result Notes
Aluminum	FLDFLT	SW6010	100.0	2000.0	2130.0	106	80-120	
Antimony	FLDFLT	SW6020	20.000	1000.0	1230.0	123	80-120	
Arsenic	FLDFLT	SW6020	2.000	20.0	19.300	96	80-120	
Barium	FLDFLT	SW6010	10.0	1000.0	1180.0	118	80-120	
Calcium	FLDFLT	SW6010	500.0	1000.0	926.0	93	80-120	
Chromium	FLDFLT	SW6010	10.0	500.0	530.0	106	80-120	
Lead	FLDFLT	SW6020	1.000	20.0	19.200	96	80-120	
Iron	FLDFLT	SW6010	100.0	1000.0	1100.0	110	80-120	
Magnesium	FLDFLT	SW6010	500.0	1000.0	1110.0	111	80-120	
Manganese	FLDFLT	SW6010	10.0	1000.0	1060.0	106	80-120	
Selenium	FLDFLT	SW6020	2.000	100.0	93.600	94	80-120	
Potassium	FLDFLT	SW6010	5000.0	10000.0	11200.0	112	80-120	
Sodium	FLDFLT	SW6010	5000.0	2000.0	2360.0	118	80-120	
Vanadium	FLDFLT	SW6010	10.0	1000.0	1040.0	104	80-120	
Zinc	FLDFLT	SW6010	20.0	1000.0	1030.0	103	80-120	
Cadmium	FLDFLT	SW6020	1.000	20.0	18.900	94	80-120	
Cobalt	FLDFLT	SW6020	1.000	20.0	19.900	100	80-120	
Copper	FLDFLT	SW6020	2.000	20.0	19.700	98	80-120	
Nickel	FLDFLT	SW6020	2.000	20.0	19.600	98	80-120	
Silver	FLDFLT	SW6020	10.000	250.0	285.000	114	80-120	
Thallium	FLDFLT	SW6020	1.000	20.0	20.900	104	80-120	
Beryllium	FLDFLT	SW6020	1.000	20.0	19.100	96	80-120	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Extracted:**	03/12/2006
Sample Matrix:	Water	**Date Analyzed:**	03/12/2006

Trace Metals

LCS Sample Name:	Lab Control Sample		
Lab Code:	LCSW-0312	Units:	ug/L (ppb)
Test Notes:		Basis:	NA

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result	Spike % Rec	CAS Acceptance Limits	Result Notes
Mercury	FLDFLT	SW7470	0.20	2.00	2.00	100	80-120	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Extracted:**	03/12/2006
Sample Matrix:	Water	**Date Analyzed:**	03/12/2006

Trace Metals

LCS Sample Name:	Lab Control Sample		
Lab Code:	LCSDW-0312	Units:	ug/L (ppb)
Test Notes:		Basis:	NA

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result	Spike % Rec	CAS Acceptance Limits	Result Notes
Mercury	FLDFLT	SW7470	0.20	2.00	1.99	100	80-120	

QC Summary

METALS

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TREADWELL & ROLLO **SDG No.:** DH005

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Initial Calibration Source: CPI

Continuing Calibration Source: CPI

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1									
	Aluminum	1910	2000	96	90.0 - 110.0	P	3/13/2006	18:31	anadata
	Barium	199	200	100	90.0 - 110.0	P	3/13/2006	18:31	anadata
	Calcium	2920	3000	97	90.0 - 110.0	P	3/13/2006	18:31	anadata
	Chromium	501	500	100	90.0 - 110.0	P	3/13/2006	18:31	anadata
	Iron	3040	3000	101	90.0 - 110.0	P	3/13/2006	18:31	anadata
	Magnesium	2920	3000	97	90.0 - 110.0	P	3/13/2006	18:31	anadata
	Manganese	198	200	99	90.0 - 110.0	P	3/13/2006	18:31	anadata
	Potassium	10800	12000	90	90.0 - 110.0	P	3/13/2006	18:31	anadata
	Sodium	3860	4000	96	90.0 - 110.0	P	3/13/2006	18:31	anadata
	Vanadium	196	200	98	90.0 - 110.0	P	3/13/2006	18:31	anadata
	Zinc	196	200	98	90.0 - 110.0	P	3/13/2006	18:31	anadata
CCV1									
	Aluminum	7810	8000	98	90.0 - 110.0	P	3/13/2006	19:43	anadata
	Barium	1980	2000	99	90.0 - 110.0	P	3/13/2006	19:43	anadata
	Calcium	39600	40000	99	90.0 - 110.0	P	3/13/2006	19:43	anadata
	Chromium	2010	2000	100	90.0 - 110.0	P	3/13/2006	19:43	anadata
	Iron	40300	40000	101	90.0 - 110.0	P	3/13/2006	19:43	anadata
	Magnesium	39600	40000	99	90.0 - 110.0	P	3/13/2006	19:43	anadata
	Manganese	1990	2000	100	90.0 - 110.0	P	3/13/2006	19:43	anadata
	Potassium	19600	20000	98	90.0 - 110.0	P	3/13/2006	19:43	anadata
	Sodium	39000	40000	98	90.0 - 110.0	P	3/13/2006	19:43	anadata
	Vanadium	1980	2000	99	90.0 - 110.0	P	3/13/2006	19:43	anadata
	Zinc	1970	2000	98	90.0 - 110.0	P	3/13/2006	19:43	anadata

METALS

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TREADWELL & ROLLO **SDG No.:** DH005

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Initial Calibration Source: CPI

Continuing Calibration Source: CPI

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV2									
	Aluminum	7920	8000	99	90.0 - 110.0	P	3/13/2006	21:22	031306TJA
	Barium	2020	2000	101	90.0 - 110.0	P	3/13/2006	21:22	031306TJA
	Calcium	39700	40000	99	90.0 - 110.0	P	3/13/2006	21:22	031306TJA
	Chromium	2040	2000	102	90.0 - 110.0	P	3/13/2006	21:22	031306TJA
	Iron	40500	40000	101	90.0 - 110.0	P	3/13/2006	21:22	031306TJA
	Magnesium	40300	40000	101	90.0 - 110.0	P	3/13/2006	21:22	031306TJA
	Manganese	2000	2000	100	90.0 - 110.0	P	3/13/2006	21:22	031306TJA
	Potassium	20500	20000	102	90.0 - 110.0	P	3/13/2006	21:22	031306TJA
	Sodium	40500	40000	101	90.0 - 110.0	P	3/13/2006	21:22	031306TJA
	Vanadium	1980	2000	99	90.0 - 110.0	P	3/13/2006	21:22	031306TJA
	Zinc	1970	2000	98	90.0 - 110.0	P	3/13/2006	21:22	031306TJA
CCV3									
	Aluminum	8200	8000	102	90.0 - 110.0	P	3/13/2006	22:27	031306TJA
	Barium	2100	2000	105	90.0 - 110.0	P	3/13/2006	22:27	031306TJA
	Calcium	40900	40000	102	90.0 - 110.0	P	3/13/2006	22:27	031306TJA
	Chromium	2080	2000	104	90.0 - 110.0	P	3/13/2006	22:27	031306TJA
	Iron	41600	40000	104	90.0 - 110.0	P	3/13/2006	22:27	031306TJA
	Magnesium	42000	40000	105	90.0 - 110.0	P	3/13/2006	22:27	031306TJA
	Manganese	2060	2000	103	90.0 - 110.0	P	3/13/2006	22:27	031306TJA
	Potassium	21400	20000	107	90.0 - 110.0	P	3/13/2006	22:27	031306TJA
	Sodium	42100	40000	105	90.0 - 110.0	P	3/13/2006	22:27	031306TJA
	Vanadium	2040	2000	102	90.0 - 110.0	P	3/13/2006	22:27	031306TJA
	Zinc	2020	2000	101	90.0 - 110.0	P	3/13/2006	22:27	031306TJA
ICV1									
	Mercury	4.8	5.0	96	80.0 - 120.0	CV	3/12/2006	18:34	V060312
CCV1									
	Mercury	4.1	4.0	102	80.0 - 120.0	CV	3/12/2006	19:01	V060312
CCV2									
	Mercury	4.2	4.0	105	80.0 - 120.0	CV	3/12/2006	19:31	V060312

METALS

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TREADWELL & ROLLO **SDG No.:** DH005

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Initial Calibration Source: CPI

Continuing Calibration Source: CPI

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV3									
	Mercury	4.2	4.0	105	80.0 - 120.0	CV	3/12/2006	19:59	V060312

METALS

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TREADWELL & ROLLO **SDG No.:** DH005

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Initial Calibration Source: IV

Continuing Calibration Source: IV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1									
	Antimony	10.5	10.0	105	90.0 - 110.0	MS	3/31/2006	11:19	033106
	Silver	10.3	10.0	103	90.0 - 110.0	MS	3/31/2006	11:19	033106
CCV1									
	Antimony	21.0	20.0	105	90.0 - 110.0	MS	3/31/2006	12:14	033106
	Silver	20.4	20.0	102	90.0 - 110.0	MS	3/31/2006	12:14	033106
CCV2									
	Antimony	21.1	20.0	106	90.0 - 110.0	MS	3/31/2006	15:10	033106
	Silver	20.6	20.0	103	90.0 - 110.0	MS	3/31/2006	15:10	033106
CCV3									
	Antimony	21.0	20.0	105	90.0 - 110.0	MS	3/31/2006	15:38	033106
	Silver	20.6	20.0	103	90.0 - 110.0	MS	3/31/2006	15:38	033106
CCV4									
	Antimony	21.2	20.0	106	90.0 - 110.0	MS	3/31/2006	16:05	033106
	Silver	21.0	20.0	105	90.0 - 110.0	MS	3/31/2006	16:05	033106
ICV1									
	Arsenic	9.6	10.0	96	90.0 - 110.0	MS	4/1/2006	13:38	040106
	Selenium	47.8	50.0	96	90.0 - 110.0	MS	4/1/2006	13:38	040106
	Cadmium	9.6	10.0	96	90.0 - 110.0	MS	4/1/2006	13:38	040106
CCV1									
	Arsenic	19.6	20.0	98	90.0 - 110.0	MS	4/1/2006	14:31	040106
	Selenium	96.6	100.0	97	90.0 - 110.0	MS	4/1/2006	14:31	040106
	Cadmium	19.3	20.0	96	90.0 - 110.0	MS	4/1/2006	14:31	040106
CCV2									
	Arsenic	20.1	20.0	100	90.0 - 110.0	MS	4/1/2006	19:11	040106
	Selenium	95.6	100.0	96	90.0 - 110.0	MS	4/1/2006	19:11	040106
	Cadmium	18.2	20.0	91	90.0 - 110.0	MS	4/1/2006	19:11	040106

METALS

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TREADWELL & ROLLO **SDG No.:** DH005

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Initial Calibration Source: IV

Continuing Calibration Source: IV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV3									
	Arsenic	19.0	20.0	95	90.0 - 110.0	MS	4/1/2006	19:58	040106
	Selenium	94.1	100.0	94	90.0 - 110.0	MS	4/1/2006	19:58	040106
	Cadmium	18.6	20.0	93	90.0 - 110.0	MS	4/1/2006	19:58	040106
CCV4									
	Arsenic	19.2	20.0	96	90.0 - 110.0	MS	4/1/2006	20:36	040106
	Selenium	94.0	100.0	94	90.0 - 110.0	MS	4/1/2006	20:36	040106
	Cadmium	18.8	20.0	94	90.0 - 110.0	MS	4/1/2006	20:36	040106
ICV1									
	Lead	9.5	10.0	95	90.0 - 110.0	MS	4/3/2006	12:23	040306a
	Cobalt	9.7	10.0	97	90.0 - 110.0	MS	4/3/2006	12:23	040306a
	Copper	9.8	10.0	98	90.0 - 110.0	MS	4/3/2006	12:23	040306a
	Nickel	9.8	10.0	98	90.0 - 110.0	MS	4/3/2006	12:23	040306a
	Beryllium	10.0	10.0	100	90.0 - 110.0	MS	4/3/2006	12:23	040306a
CCV1									
	Lead	19.4	20.0	97	90.0 - 110.0	MS	4/3/2006	13:19	040306a
	Cobalt	18.9	20.0	94	90.0 - 110.0	MS	4/3/2006	13:19	040306a
	Copper	18.6	20.0	93	90.0 - 110.0	MS	4/3/2006	13:19	040306a
	Nickel	18.6	20.0	93	90.0 - 110.0	MS	4/3/2006	13:19	040306a
	Beryllium	19.1	20.0	96	90.0 - 110.0	MS	4/3/2006	13:19	040306a
ICV2									
	Lead	9.5	10.0	95	90.0 - 110.0	MS	4/3/2006	14:23	040306a
	Cobalt	9.7	10.0	97	90.0 - 110.0	MS	4/3/2006	14:23	040306a
	Copper	9.9	10.0	99	90.0 - 110.0	MS	4/3/2006	14:23	040306a
	Nickel	9.8	10.0	98	90.0 - 110.0	MS	4/3/2006	14:23	040306a
	Beryllium	10.1	10.0	101	90.0 - 110.0	MS	4/3/2006	14:23	040306a

METALS

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TREADWELL & ROLLO **SDG No.:** DH005

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Initial Calibration Source: IV

Continuing Calibration Source: IV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1									
	Lead	19.6	20.0	98	90.0 - 110.0	MS	4/3/2006	15:22	040306a
	Cobalt	19.5	20.0	98	90.0 - 110.0	MS	4/3/2006	15:22	040306a
	Copper	19.5	20.0	98	90.0 - 110.0	MS	4/3/2006	15:22	040306a
	Nickel	19.3	20.0	96	90.0 - 110.0	MS	4/3/2006	15:22	040306a
	Beryllium	19.0	20.0	95	90.0 - 110.0	MS	4/3/2006	15:22	040306a
ICV1									
	Thallium	9.3	10.0	93	90.0 - 110.0	MS	4/13/2006	13:19	041206A
	Beryllium	9.7	10.0	97	90.0 - 110.0	MS	4/13/2006	13:19	041206A
CCV1									
	Thallium	19.6	20.0	98	90.0 - 110.0	MS	4/13/2006	14:19	041206A
	Beryllium	19.2	20.0	96	90.0 - 110.0	MS	4/13/2006	14:19	041206A
CCV2									
	Thallium	19.1	20.0	96	90.0 - 110.0	MS	4/13/2006	15:14	041206A
	Beryllium	20.0	20.0	100	90.0 - 110.0	MS	4/13/2006	15:14	041206A
CCV3									
	Thallium	19.3	20.0	96	90.0 - 110.0	MS	4/13/2006	15:29	041206A
	Beryllium	19.9	20.0	100	90.0 - 110.0	MS	4/13/2006	15:29	041206A

METALS
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CRDL STANDARD FOR AA & ICP

Client: TREADWELL & ROLLO **SDG No.:** DH005

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** _____ **SAS No.:** _____

AA CRDL Standard Source: _____

ICP CRDL Standard Source: CPI

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Advisory Limits (%R)	M	Analysis Date	Analysis Time	Run Number
RLS									
	Aluminum	64	60	107	50 - 150	P	3/13/2006	18:41	031306TJA
	Calcium	490	500	98	50 - 150	P	3/13/2006	18:41	031306TJA
	Chromium	11	10	110	50 - 150	P	3/13/2006	18:41	031306TJA
	Iron	100	100	100	50 - 150	P	3/13/2006	18:41	031306TJA
	Magnesium	210	200	105	50 - 150	P	3/13/2006	18:41	031306TJA
	Manganese	5	5	100	50 - 150	P	3/13/2006	18:41	031306TJA
	Potassium	900	1000	90	50 - 150	P	3/13/2006	18:41	031306TJA
	Sodium	500	500	100	50 - 150	P	3/13/2006	18:41	031306TJA
	Vanadium	11	10	110	50 - 150	P	3/13/2006	18:41	031306TJA
	Zinc	21	20	105	50 - 150	P	3/13/2006	18:41	031306TJA
RLS									
	Barium	26	25	104	50 - 150	P	3/13/2006	18:44	031306TJA

METALS
- 2b -
CRDL STANDARD FOR AA & ICP

Client: TREADWELL & ROLLO **SDG No.:** DH005

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** _____ **SAS No.:** _____

AA CRDL Standard Source: _____

ICP CRDL Standard Source: Spex

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Advisory Limits (%R)	M	Analysis Date	Analysis Time	Run Number
RLS									
	Antimony	0.22	0.2	110	50 - 150	MS	3/31/2006	11:31	033106
	Silver	0.50	0.5	100	50 - 150	MS	3/31/2006	11:31	033106
RLS									
	Arsenic	0.39	0.5	78	50 - 150	MS	4/1/2006	13:52	040106
	Selenium	0.93	1.0	93	50 - 150	MS	4/1/2006	13:52	040106
	Cadmium	0.09	0.1	90	50 - 150	MS	4/1/2006	13:52	040106
RLS									
	Lead	0.44	0.5	88	50 - 150	MS	4/3/2006	12:36	040306a
	Cobalt	0.46	0.5	92	50 - 150	MS	4/3/2006	12:36	040306a
	Copper	0.52	0.5	104	50 - 150	MS	4/3/2006	12:36	040306a
	Nickel	0.49	0.5	98	50 - 150	MS	4/3/2006	12:36	040306a
	Beryllium	0.08	0.1	80	50 - 150	MS	4/3/2006	12:36	040306a
RLS									
	Lead	0.44	0.5	88	50 - 150	MS	4/3/2006	14:37	040306a
	Cobalt	0.47	0.5	94	50 - 150	MS	4/3/2006	14:37	040306a
	Copper	0.49	0.5	98	50 - 150	MS	4/3/2006	14:37	040306a
	Nickel	0.48	0.5	96	50 - 150	MS	4/3/2006	14:37	040306a
	Beryllium	0.10	0.1	100	50 - 150	MS	4/3/2006	14:37	040306a
RLS									
	Thallium	0.09	0.1	90	50 - 150	MS	4/13/2006	13:33	041206A
	Beryllium	0.09	0.1	90	50 - 150	MS	4/13/2006	13:33	041206A

METALS

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TREADWELL & ROLLO **SDG No.:** DH005

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
ICB1										
	Aluminum	100.0	+/-100.0	U	100.0	100.0	P	3/13/2006	18:38	031306TJA
	Barium	10.0	+/-10.0	U	10.0	10.0	P	3/13/2006	18:38	031306TJA
	Calcium	500.0	+/-500.0	U	500.0	500.0	P	3/13/2006	18:38	031306TJA
	Chromium	10.0	+/-10.0	U	10.0	10.0	P	3/13/2006	18:38	031306TJA
	Iron	100.0	+/-100.0	U	100.0	100.0	P	3/13/2006	18:38	031306TJA
	Magnesium	500.0	+/-500.0	U	500.0	500.0	P	3/13/2006	18:38	031306TJA
	Manganese	10.0	+/-10.0	U	10.0	10.0	P	3/13/2006	18:38	031306TJA
	Potassium	5000.0	+/-5000.0	U	5000.0	5000.0	P	3/13/2006	18:38	031306TJA
	Sodium	5000.0	+/-5000.0	U	5000.0	5000.0	P	3/13/2006	18:38	031306TJA
	Vanadium	10.0	+/-10.0	U	10.0	10.0	P	3/13/2006	18:38	031306TJA
	Zinc	20.0	+/-20.0	U	20.0	20.0	P	3/13/2006	18:38	031306TJA
CCB1										
	Aluminum	100.0	+/-100.0	U	100.0	100.0	P	3/13/2006	19:55	031306TJA
	Barium	10.0	+/-10.0	U	10.0	10.0	P	3/13/2006	19:55	031306TJA
	Calcium	500.0	+/-500.0	U	500.0	500.0	P	3/13/2006	19:55	031306TJA
	Chromium	10.0	+/-10.0	U	10.0	10.0	P	3/13/2006	19:55	031306TJA
	Iron	100.0	+/-100.0	U	100.0	100.0	P	3/13/2006	19:55	031306TJA
	Magnesium	500.0	+/-500.0	U	500.0	500.0	P	3/13/2006	19:55	031306TJA
	Manganese	10.0	+/-10.0	U	10.0	10.0	P	3/13/2006	19:55	031306TJA
	Potassium	5000.0	+/-5000.0	U	5000.0	5000.0	P	3/13/2006	19:55	031306TJA
	Sodium	5000.0	+/-5000.0	U	5000.0	5000.0	P	3/13/2006	19:55	031306TJA
	Vanadium	10.0	+/-10.0	U	10.0	10.0	P	3/13/2006	19:55	031306TJA
	Zinc	20.0	+/-20.0	U	20.0	20.0	P	3/13/2006	19:55	031306TJA

METALS

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TREADWELL & ROLLO **SDG No.:** DH005

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
CCB2										
	Aluminum	100.0	+/-100.0	U	100.0	100.0	P	3/13/2006	21:33	031306TJA
	Barium	10.0	+/-10.0	U	10.0	10.0	P	3/13/2006	21:33	031306TJA
	Calcium	500.0	+/-500.0	U	500.0	500.0	P	3/13/2006	21:33	031306TJA
	Chromium	10.0	+/-10.0	U	10.0	10.0	P	3/13/2006	21:33	031306TJA
	Iron	100.0	+/-100.0	U	100.0	100.0	P	3/13/2006	21:33	031306TJA
	Magnesium	500.0	+/-500.0	U	500.0	500.0	P	3/13/2006	21:33	031306TJA
	Manganese	10.0	+/-10.0	U	10.0	10.0	P	3/13/2006	21:33	031306TJA
	Potassium	5000.0	+/-5000.0	U	5000.0	5000.0	P	3/13/2006	21:33	031306TJA
	Sodium	5000.0	+/-5000.0	U	5000.0	5000.0	P	3/13/2006	21:33	031306TJA
	Vanadium	10.0	+/-10.0	U	10.0	10.0	P	3/13/2006	21:33	031306TJA
	Zinc	20.0	+/-20.0	U	20.0	20.0	P	3/13/2006	21:33	031306TJA
CCB3										
	Aluminum	100.0	+/-100.0	U	100.0	100.0	P	3/13/2006	22:40	031306TJA
	Barium	10.0	+/-10.0	U	10.0	10.0	P	3/13/2006	22:40	031306TJA
	Calcium	500.0	+/-500.0	U	500.0	500.0	P	3/13/2006	22:40	031306TJA
	Chromium	10.0	+/-10.0	U	10.0	10.0	P	3/13/2006	22:40	031306TJA
	Iron	100.0	+/-100.0	U	100.0	100.0	P	3/13/2006	22:40	031306TJA
	Magnesium	500.0	+/-500.0	U	500.0	500.0	P	3/13/2006	22:40	031306TJA
	Manganese	10.0	+/-10.0	U	10.0	10.0	P	3/13/2006	22:40	031306TJA
	Potassium	5000.0	+/-5000.0	U	5000.0	5000.0	P	3/13/2006	22:40	031306TJA
	Sodium	5000.0	+/-5000.0	U	5000.0	5000.0	P	3/13/2006	22:40	031306TJA
	Vanadium	10.0	+/-10.0	U	10.0	10.0	P	3/13/2006	22:40	031306TJA
	Zinc	20.0	+/-20.0	U	20.0	20.0	P	3/13/2006	22:40	031306TJA
ICB1										
	Antimony	0.04	+/-2.00	B	0.03	2.00	MS	3/31/2006	11:28	033106
	Silver	0.05	+/-1.00	U	0.05	1.00	MS	3/31/2006	11:28	033106
CCB1										
	Antimony	0.06	+/-2.00	B	0.03	2.00	MS	3/31/2006	12:22	033106
	Silver	0.05	+/-1.00	U	0.05	1.00	MS	3/31/2006	12:22	033106

METALS
- 3a -
INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TREADWELL & ROLLO **SDG No.:** DH005

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
CCB2										
	Antimony	0.07	+/-2.00	B	0.03	2.00	MS	3/31/2006	15:17	033106
	Silver	0.05	+/-1.00	U	0.05	1.00	MS	3/31/2006	15:17	033106
CCB3										
	Antimony	0.07	+/-2.00	B	0.03	2.00	MS	3/31/2006	15:46	033106
	Silver	0.05	+/-1.00	U	0.05	1.00	MS	3/31/2006	15:46	033106
CCB4										
	Antimony	0.07	+/-2.00	B	0.03	2.00	MS	3/31/2006	16:12	033106
	Silver	0.05	+/-1.00	U	0.05	1.00	MS	3/31/2006	16:12	033106
ICB1										
	Arsenic	0.09	+/-2.00	U	0.09	2.00	MS	4/1/2006	13:47	040106
	Selenium	0.17	+/-2.00	U	0.17	2.00	MS	4/1/2006	13:47	040106
	Cadmium	0.02	+/-1.00	U	0.02	1.00	MS	4/1/2006	13:47	040106
CCB1										
	Arsenic	0.09	+/-2.00	U	0.09	2.00	MS	4/1/2006	14:39	040106
	Selenium	0.17	+/-2.00	U	0.17	2.00	MS	4/1/2006	14:39	040106
	Cadmium	0.02	+/-1.00	U	0.02	1.00	MS	4/1/2006	14:39	040106
CCB2										
	Arsenic	-0.11	+/-2.00	B	0.09	2.00	MS	4/1/2006	19:19	040106
	Selenium	0.17	+/-2.00	U	0.17	2.00	MS	4/1/2006	19:19	040106
	Cadmium	0.02	+/-1.00	U	0.02	1.00	MS	4/1/2006	19:19	040106
CCB3										
	Arsenic	0.09	+/-2.00	U	0.09	2.00	MS	4/1/2006	20:06	040106
	Selenium	0.17	+/-2.00	U	0.17	2.00	MS	4/1/2006	20:06	040106
	Cadmium	-0.02	+/-1.00	B	0.02	1.00	MS	4/1/2006	20:06	040106

METALS

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TREADWELL & ROLLO **SDG No.:** DH005

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
CCB4										
	Arsenic	0.09	+/-2.00	U	0.09	2.00	MS	4/1/2006	20:44	040106
	Selenium	0.17	+/-2.00	U	0.17	2.00	MS	4/1/2006	20:44	040106
	Cadmium	0.02	+/-1.00	U	0.02	1.00	MS	4/1/2006	20:44	040106
ICB1										
	Lead	1.00	+/-1.00	U	1.00	1.00	MS	4/3/2006	12:32	040306a
	Cobalt	1.00	+/-1.00	U	1.00	1.00	MS	4/3/2006	12:32	040306a
	Copper	2.00	+/-2.00	U	2.00	2.00	MS	4/3/2006	12:32	040306a
	Nickel	2.00	+/-2.00	U	2.00	2.00	MS	4/3/2006	12:32	040306a
	Beryllium	1.00	+/-1.00	U	1.00	1.00	MS	4/3/2006	12:32	040306a
CCB1										
	Lead	1.00	+/-1.00	U	1.00	1.00	MS	4/3/2006	13:27	040306a
	Cobalt	1.00	+/-1.00	U	1.00	1.00	MS	4/3/2006	13:27	040306a
	Copper	2.00	+/-2.00	U	2.00	2.00	MS	4/3/2006	13:27	040306a
	Nickel	2.00	+/-2.00	U	2.00	2.00	MS	4/3/2006	13:27	040306a
	Beryllium	1.00	+/-1.00	U	1.00	1.00	MS	4/3/2006	13:27	040306a
ICB2										
	Lead	1.00	+/-1.00	U	1.00	1.00	MS	4/3/2006	14:32	040306a
	Cobalt	1.00	+/-1.00	U	1.00	1.00	MS	4/3/2006	14:32	040306a
	Copper	2.00	+/-2.00	U	2.00	2.00	MS	4/3/2006	14:32	040306a
	Nickel	2.00	+/-2.00	U	2.00	2.00	MS	4/3/2006	14:32	040306a
	Beryllium	1.00	+/-1.00	U	1.00	1.00	MS	4/3/2006	14:32	040306a
CCB1										
	Lead	1.00	+/-1.00	U	1.00	1.00	MS	4/3/2006	15:30	040306a
	Cobalt	1.00	+/-1.00	U	1.00	1.00	MS	4/3/2006	15:30	040306a
	Copper	2.00	+/-2.00	U	2.00	2.00	MS	4/3/2006	15:30	040306a
	Nickel	2.00	+/-2.00	U	2.00	2.00	MS	4/3/2006	15:30	040306a
	Beryllium	1.00	+/-1.00	U	1.00	1.00	MS	4/3/2006	15:30	040306a

METALS

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TREADWELL & ROLLO **SDG No.:** DH005

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
ICB1										
	Thallium	0.05	+/-1.00	U	0.05	1.00	MS	4/13/2006	13:28	041206A
	Beryllium	0.01	+/-1.00	U	0.01	1.00	MS	4/13/2006	13:28	041206A
CCB1										
	Thallium	0.05	+/-1.00	U	0.05	1.00	MS	4/13/2006	14:27	041206A
	Beryllium	0.01	+/-1.00	U	0.01	1.00	MS	4/13/2006	14:27	041206A
CCB2										
	Thallium	0.05	+/-1.00	U	0.05	1.00	MS	4/13/2006	15:22	041206A
	Beryllium	0.01	+/-1.00	U	0.01	1.00	MS	4/13/2006	15:22	041206A
CCB3										
	Thallium	0.05	+/-1.00	U	0.05	1.00	MS	4/13/2006	15:37	041206A
	Beryllium	0.01	+/-1.00	U	0.01	1.00	MS	4/13/2006	15:37	041206A
ICB1										
	Mercury	0.10	+/-0.20	U	0.10	0.20	CV	3/12/2006	18:36	V060312
CCB1										
	Mercury	0.10	+/-0.20	U	0.10	0.20	CV	3/12/2006	19:03	V060312
CCB2										
	Mercury	0.10	+/-0.20	U	0.10	0.20	CV	3/12/2006	19:33	V060312
CCB3										
	Mercury	0.10	+/-0.20	U	0.10	0.20	CV	3/12/2006	20:01	V060312

METALS

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INTERFERENCE CHECK SAMPLE

Client: TREADWELL & ROLLO **SDG No.:** DH005

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

ICS Source: CPI **Instrument ID:** TJA61

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window	Analysis Date	Analysis Time	Run Number
ICS-A1								
	Aluminum	497481	500000	99	80 - 120%	3/13/2006	18:47	031306TJA
	Barium	1				3/13/2006	18:47	031306TJA
	Calcium	464004	500000	93	80 - 120%	3/13/2006	18:47	031306TJA
	Chromium	6				3/13/2006	18:47	031306TJA
	Iron	182010	200000	91	80 - 120%	3/13/2006	18:47	031306TJA
	Magnesium	491268	500000	98	80 - 120%	3/13/2006	18:47	031306TJA
	Manganese	7				3/13/2006	18:47	031306TJA
	Potassium	-606				3/13/2006	18:47	031306TJA
	Sodium	30				3/13/2006	18:47	031306TJA
	Vanadium	24				3/13/2006	18:47	031306TJA
	Zinc	2				3/13/2006	18:47	031306TJA
ICS-AB1								
	Aluminum	518996	502000	103	80 - 120%	3/13/2006	18:52	031306TJA
	Barium	991	1000	99	80 - 120%	3/13/2006	18:52	031306TJA
	Calcium	479736	500200	96	80 - 120%	3/13/2006	18:52	031306TJA
	Chromium	957	1000	96	80 - 120%	3/13/2006	18:52	031306TJA
	Iron	188353	200200	94	80 - 120%	3/13/2006	18:52	031306TJA
	Magnesium	510246	500200	102	80 - 120%	3/13/2006	18:52	031306TJA
	Manganese	959	1000	96	80 - 120%	3/13/2006	18:52	031306TJA
	Potassium	-725				3/13/2006	18:52	031306TJA
	Sodium	2208	2000	110	80 - 120%	3/13/2006	18:52	031306TJA
	Vanadium	975	1000	98	80 - 120%	3/13/2006	18:52	031306TJA
	Zinc	1964	2000	98	80 - 120%	3/13/2006	18:52	031306TJA

METALS

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INTERFERENCE CHECK SAMPLE

Client: TREADWELL & ROLLO **SDG No.:** DH005

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

ICS Source: IV **Instrument ID:** ELAN 9000

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window	Analysis Date	Analysis Time	Run Number
ICSA								
	Antimony	0.1				3/31/2006	11:37	033106
	Silver	0.0				3/31/2006	11:37	033106
ICSAB								
	Antimony	21.4	20.0	107	80 - 120%	3/31/2006	11:42	033106
	Silver	19.9	20.0	100	80 - 120%	3/31/2006	11:42	033106
ICSA								
	Arsenic	0.0				4/1/2006	13:58	040106
	Selenium	0.0				4/1/2006	13:58	040106
	Cadmium	0.1				4/1/2006	13:58	040106
ICSAB								
	Arsenic	19.0	20.0	95	80 - 120%	4/1/2006	14:04	040106
	Selenium	94.2	100.0	94	80 - 120%	4/1/2006	14:04	040106
	Cadmium	19.2	20.0	96	80 - 120%	4/1/2006	14:04	040106
ICSA								
	Lead	0.1				4/3/2006	12:43	040306a
	Cobalt	0.0				4/3/2006	12:43	040306a
	Copper	0.5				4/3/2006	12:43	040306a
	Nickel	0.4				4/3/2006	12:43	040306a
	Beryllium	0.0				4/3/2006	12:43	040306a
ICSAB								
	Lead	20.2	20.0	101	80 - 120%	4/3/2006	12:48	040306a
	Cobalt	19.8	20.0	99	80 - 120%	4/3/2006	12:48	040306a
	Copper	19.6	20.0	98	80 - 120%	4/3/2006	12:48	040306a
	Nickel	19.6	20.0	98	80 - 120%	4/3/2006	12:48	040306a
	Beryllium	19.6	20.0	98	80 - 120%	4/3/2006	12:48	040306a

METALS

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INTERFERENCE CHECK SAMPLE

Client: TREADWELL & ROLLO **SDG No.:** DH005

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

ICS Source: IV **Instrument ID:** ELAN 9000

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window	Analysis Date	Analysis Time	Run Number
ICSA								
	Lead	0.1				4/3/2006	14:43	040306a
	Cobalt	0.0				4/3/2006	14:43	040306a
	Copper	0.5				4/3/2006	14:43	040306a
	Nickel	0.5				4/3/2006	14:43	040306a
	Beryllium	0.0				4/3/2006	14:43	040306a
ICSAB								
	Lead	19.7	20.0	98	80 - 120%	4/3/2006	14:49	040306a
	Cobalt	20.2	20.0	101	80 - 120%	4/3/2006	14:49	040306a
	Copper	19.9	20.0	100	80 - 120%	4/3/2006	14:49	040306a
	Nickel	20.5	20.0	102	80 - 120%	4/3/2006	14:49	040306a
	Beryllium	20.1	20.0	100	80 - 120%	4/3/2006	14:49	040306a
ICSA								
	Thallium	0.0				4/13/2006	13:40	041206A
	Beryllium	0.0				4/13/2006	13:40	041206A
ICSAB								
	Thallium	20.3	20.0	102	80 - 120%	4/13/2006	13:46	041206A
	Beryllium	21.1	20.0	106	80 - 120%	4/13/2006	13:46	041206A

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DUPLICATE SAMPLE SUMMARY

Client: TREADWELL & ROLLO **Level:** LOW **SDG No.:** DH005

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** _____ **SAS No.:** _____

Matrix: WATER **Sample ID:** LCSW **Client ID:** LCSWD

Percent Solids for Sample: 0.00 **Duplicate ID:** LCSWD **Percent Solids for Duplicate:** 0.00

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L		2120.0		2130.0		0		P
Antimony	ug/L		1190.000		1230.000		3		MS
Arsenic	ug/L		19.500		19.300		1		MS
Barium	ug/L		1120.0		1180.0		5		P
Calcium	ug/L		1080.0		926.0		15		P
Chromium	ug/L		553.0		530.0		4		P
Lead	ug/L		19.300		19.200		1		MS
Iron	ug/L		1130.0		1100.0		3		P
Magnesium	ug/L		1110.0		1110.0		0		P
Manganese	ug/L		1100.0		1060.0		4		P
Selenium	ug/L		96.400		93.600		3		MS
Potassium	ug/L		10500.0		11200.0		6		P
Sodium	ug/L		2180.0		2360.0		8		P
Vanadium	ug/L		1050.0		1040.0		1		P
Zinc	ug/L		1070.0		1030.0		4		P
Cadmium	ug/L		18.800		18.900		1		MS
Cobalt	ug/L		19.600		19.900		2		MS
Copper	ug/L		19.500		19.700		1		MS
Mercury	ug/L		2.00		1.99		1		CV
Nickel	ug/L		19.500		19.600		1		MS
Silver	ug/L		274.000		285.000		4		MS
Thallium	ug/L		20.800		20.900		0		MS
Beryllium	ug/L		19.300		19.100		1		MS

METALS
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SAMPLE PREPARATION SUMMARY

Client: TREADWELL & ROLLO

SDG No.: DH005

Contract: PRESIDIO **Lab Code:** RDD

Method: P

Case No.: **SAS No.:**

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	ICPW1						
PBW	PBW	MB	WATER	3/11/06	50.0	50.0	
LCSW	LCSW	LCS	WATER	3/11/06	50.0	50.0	
LCSWD	LCSWD	LCSD	WATER	3/11/06	50.0	50.0	
DH005001	1047MW101CL	SAM	WATER	3/11/06	50.0	50.0	
DH005002	1065PZ5ARCL	SAM	WATER	3/11/06	50.0	50.0	
DH005003	610GW103CL	SAM	WATER	3/11/06	50.0	50.0	
DH005004	LF4GW103CL	SAM	WATER	3/11/06	50.0	50.0	
DH005005	LF5GW104CL	SAM	WATER	3/11/06	50.0	50.0	
DH005006	1349MW102CL	SAM	WATER	3/11/06	50.0	50.0	

METALS
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SAMPLE PREPARATION SUMMARY

Client: TREADWELL & ROLLO

SDG No.: DH005

Contract: PRESIDIO **Lab Code:** RDD

Method: MS

Case No.: _____ **SAS No.:** _____

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	ICPMSW1						
PBW	PBW	MB	WATER	3/11/06	50.0	50.0	
LCSW	LCSW	LCS	WATER	3/11/06	50.0	50.0	
LCSWD	LCSWD	LCSD	WATER	3/11/06	50.0	50.0	
DH005001	1047MW101CL	SAM	WATER	3/11/06	50.0	50.0	
DH005002	1065PZ5ARCL	SAM	WATER	3/11/06	50.0	50.0	
DH005003	610GW103CL	SAM	WATER	3/11/06	50.0	50.0	
DH005004	LF4GW103CL	SAM	WATER	3/11/06	50.0	50.0	
DH005005	LF5GW104CL	SAM	WATER	3/11/06	50.0	50.0	
DH005006	1349MW102CL	SAM	WATER	3/11/06	50.0	50.0	

METALS
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SAMPLE PREPARATION SUMMARY

Client: TREADWELL & ROLLO

SDG No.: DH005

Contract: PRESIDIO **Lab Code:** RDD

Method: CV

Case No.: _____ **SAS No.:** _____

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	CVAAW1						
LCSW	LCSW	LCS	WATER	3/12/06	20.0	20.0	
LCSWD	LCSWD	LCSD	WATER	3/12/06	20.0	20.0	
PBW	PBW	MB	WATER	3/12/06	20.0	20.0	
DH005005	LF5GW104CL	SAM	WATER	3/12/06	20.0	20.0	
DH005006	1349MW102CL	SAM	WATER	3/12/06	20.0	20.0	

METALS
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ANALYSIS RUN LOG

Client: TREADWELL & ROLLO Contract: PRESIDIO

Lab Code: RDD Case No.: _____ SAS No.: _____ SDG No.: DH005

Instrument ID Number: TJA61 Method: P Run Number: 031306TJA

Start Date: 3/13/2006 End Date: 3/13/2006

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CB	1.00	1816		X			X			X	X			X		X	X			X			X		X	X	
STD	1.00	1819		X			X			X	X			X		X	X			X			X		X	X	
ICV1	1.00	1831		X			X			X	X			X		X	X			X			X		X	X	
ICB1	1.00	1838		X			X			X	X			X		X	X			X			X		X	X	
RLS	1.00	1841		X						X	X			X		X	X			X			X		X	X	
RLS	1.00	1844					X																				
ICS-A1	1.00	1847		X			X			X	X			X		X	X			X			X		X	X	
ICS-AB1	1.00	1852		X			X			X	X			X		X	X			X			X		X	X	
PBW	1.00	1858		X			X			X	X			X		X	X			X			X		X	X	
LCSW	1.00	1902		X			X			X	X			X		X	X			X			X		X	X	
LCSWD	1.00	1906		X			X			X	X			X		X	X			X			X		X	X	
1047MW101CL	1.00	1927		X						X	X			X		X	X			X			X			X	
CCV1	1.00	1943		X			X			X	X			X		X	X			X			X		X	X	
CCB1	1.00	1955		X			X			X	X			X		X	X			X			X		X	X	
CCV2	1.00	2122		X			X			X	X			X		X	X			X			X		X	X	
CCB2	1.00	2133		X			X			X	X			X		X	X			X			X		X	X	
1065PZ5ARCL	1.00	2145		X						X	X			X		X	X			X			X			X	
610GW103CL	1.00	2149		X						X	X			X		X	X			X			X			X	
LF4GW103CL	1.00	2154		X						X	X			X		X	X			X			X			X	
LF5GW104CL	1.00	2158		X			X			X	X			X		X	X			X			X		X	X	
1349MW102CL	1.00	2202		X			X			X	X			X		X	X			X			X		X	X	
CCV3	1.00	2227		X			X			X	X			X		X	X			X			X		X	X	
CCB3	1.00	2240		X			X			X	X			X		X	X			X			X		X	X	

METALS
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ANALYSIS RUN LOG

Client: TREADWELL & ROLLO Contract: PRESIDIO

Lab Code: RDD Case No.: SAS No.: SDG No.: DH005

Instrument ID Number: ELAN 9000 Method: MS Run Number: 033106

Start Date: 3/31/2006 End Date: 3/31/2006

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
Blank	1.00	1111			X																	X					
Standard 1	1.00	1113			X																	X					
ICV1	1.00	1119			X																	X					
ICB1	1.00	1128			X																	X					
RLS	1.00	1131			X																	X					
ICSA	1.00	1137			X																	X					
ICSAB	1.00	1142			X																	X					
CCV1	1.00	1214			X																	X					
CCB1	1.00	1222			X																	X					
CCV2	1.00	1510			X																	X					
CCB2	1.00	1517			X																	X					
PBW	1.00	1521			X																	X					
LCSW	10.00	1523			X																	X					
LCSWD	10.00	1525			X																	X					
1047MW101CL	1.00	1527			X																						
CCV3	1.00	1538			X																	X					
CCB3	1.00	1546			X																	X					
1065PZ5ARCL	1.00	1547			X																						
LF5GW104CL	1.00	1554			X																	X					
1349MW102CL	1.00	1556			X																	X					
CCV4	1.00	1605			X																	X					
CCB4	1.00	1612			X																	X					

METALS
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ANALYSIS RUN LOG

Client: TREADWELL & ROLLO Contract: PRESIDIO

Lab Code: RDD Case No.: SAS No.: SDG No.: DH005

Instrument ID Number: ELAN 9000 Method: MS Run Number: 040106

Start Date: 4/1/2006 End Date: 4/1/2006

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
Blank	1.00	1328				X			X												X						
Standard 1	1.00	1332				X			X												X						
ICV1	1.00	1338				X			X												X						
ICB1	1.00	1347				X			X												X						
RLS	1.00	1352				X			X												X						
ICSA	1.00	1358				X			X												X						
ICSAB	1.00	1404				X			X												X						
CCV1	1.00	1431				X			X												X						
CCB1	1.00	1439				X			X												X						
CCV2	1.00	1911				X			X												X						
CCB2	1.00	1919				X			X												X						
PBW	1.00	1932				X			X												X						
LCSW	1.00	1936				X			X												X						
LCSWD	1.00	1939				X			X												X						
1047MW101CL	1.00	1942				X			X																		
CCV3	1.00	1958				X			X												X						
CCB3	1.00	2006				X			X												X						
1065PZ5ARCL	1.00	2010				X			X																		
610GW103CL	1.00	2013				X			X																		
LF4GW103CL	1.00	2016				X			X																		
LF5GW104CL	1.00	2019				X			X												X						
1349MW102CL	1.00	2023				X			X												X						
CCV4	1.00	2036				X			X												X						
CCB4	1.00	2044				X			X												X						

METALS
14
ANALYSIS RUN LOG

Client: TREADWELL & ROLLO Contract: PRESIDIO

Lab Code: RDD Case No.: SAS No.: SDG No.: DH005

Instrument ID Number: ELAN 9000 Method: MS Run Number: 040306a

Start Date: 4/3/2006 End Date: 4/3/2006

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
Blank	1.00	1213						X				X	X		X				X								
Standard 1	1.00	1217						X				X	X		X				X								
ICV1	1.00	1223						X				X	X		X				X								
ICB1	1.00	1232						X				X	X		X				X								
RLS	1.00	1236						X				X	X		X				X								
ICSA	1.00	1243						X				X	X		X				X								
ICSAB	1.00	1248						X				X	X		X				X								
PBW	1.00	1256						X				X	X		X				X								
LCSW	1.00	1259						X				X	X		X				X								
LCSWD	1.00	1302						X				X	X		X				X								
1047MW101CL	1.00	1305											X		X				X								
CCV1	1.00	1319						X				X	X		X				X								
CCB1	1.00	1327						X				X	X		X				X								
Blank	1.00	1414						X				X	X		X				X								
Standard 1	1.00	1418						X				X	X		X				X								
ICV2	1.00	1423						X				X	X		X				X								
ICB2	1.00	1432						X				X	X		X				X								
RLS	1.00	1437						X				X	X		X				X								
ICSA	1.00	1443						X				X	X		X				X								
ICSAB	1.00	1449						X				X	X		X				X								
1065PZ5ARCL	1.00	1457											X		X				X								
610GW103CL	1.00	1500											X		X				X								
LF4GW103CL	1.00	1502											X		X				X								
LF5GW104CL	1.00	1505						X				X	X		X				X								
1349MW102CL	1.00	1508										X	X		X				X								
CCV1	1.00	1522						X				X	X		X				X								
CCB1	1.00	1530						X				X	X		X				X								

METALS
14
ANALYSIS RUN LOG

Client: TREADWELL & ROLLO Contract: PRESIDIO

Lab Code: RDD Case No.: _____ SAS No.: _____ SDG No.: DH005

Instrument ID Number: ELAN 9000 Method: MS Run Number: 041206A

Start Date: 4/13/2006 End Date: 4/13/2006

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
Blank	1.00	1310						X																X			
Standard 1	1.00	1314						X																X			
ICV1	1.00	1319						X																X			
ICB1	1.00	1328						X																X			
RLS	1.00	1333						X																X			
ICSA	1.00	1340						X																X			
ICSAB	1.00	1346						X																X			
PBW	1.00	1354																						X			
LCSW	1.00	1357																						X			
LCSWD	1.00	1400																						X			
LF5GW104CL	1.00	1416																						X			
CCV1	1.00	1419						X																X			
CCB1	1.00	1427						X																X			
CCV2	1.00	1514						X																X			
CCB2	1.00	1522						X																X			
1349MW102CL	1.00	1525						X																X			
CCV3	1.00	1529						X																X			
CCB3	1.00	1537						X																X			

METALS
14
ANALYSIS RUN LOG

Client: TREADWELL & ROLLO Contract: PRESIDIO

Lab Code: RDD Case No.: _____ SAS No.: _____ SDG No.: DH005

Instrument ID Number: PE FIMS Method: CV Run Number: V060312

Start Date: 3/12/2006 End Date: 3/12/2006

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CALIB BLANK	1.00	1819																X									
STANDARD 1	1.00	1821																X									
STANDARD 2	1.00	1823																X									
STANDARD 3	1.00	1826																X									
STANDARD 4	1.00	1828																X									
STANDARD 5	1.00	1830																X									
ICV1	1.00	1834																X									
ICB1	1.00	1836																X									
LCSW	1.00	1841																X									
LCSWD	1.00	1843																X									
PBW	1.00	1858																X									
CCV1	1.00	1901																X									
CCB1	1.00	1903																X									
CCV2	1.00	1931																X									
CCB2	1.00	1933																X									
LF5GW104CL	1.00	1952																X									
1349MW102CL	1.00	1954																X									
CCV3	1.00	1959																X									
CCB3	1.00	2001																X									

Verification of Instrument Parameters

METALS
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METHOD DETECTION LIMITS

Client: TREADWELL & ROLLO **SDG No.:** DH005

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** _____ **SAS No.:** _____

Analyte	Mass	MDL ug/L	PQL ug/L
ELAN 9000			**Date:** 11/21/2005
Antimony	121	2.00	2.00
Arsenic	75	2.00	2.00
Lead	208	1.00	1.00
Selenium	82	2.00	2.00
Cadmium	111	1.00	1.00
Cobalt	59	1.00	1.00
Copper	63	2.00	2.00
Nickel	60	2.00	2.00
Silver	107	1.00	1.00
Thallium	205	1.00	1.00
Beryllium	9	1.00	1.00
PE FIMS			**Date:** 11/5/2005
Mercury	253.70	0.20	0.20
TJA61			**Date:** 8/2/2005
Aluminum	308.22	100	100
Barium	493.41	10	10
Calcium	317.93	500	500
Chromium	267.72	10	10
Iron	271.44	100	100
Magnesium	279.08	500	500
Manganese	257.61	10	10
Potassium	766.49	5000	5000
Sodium	330.23	5000	5000
Vanadium	292.40	10	10
Zinc	213.86	20	20

METALS
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: TREADWELL & ROLLO SDG No.: DH005

Contract: PRESIDIO Lab Code: RDD Case No.: _____ SAS No.: _____

Instrument ID: TJA61 Date: 1/26/2006

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For:				
		Al	Ca	Fe	Mg	Ag
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0005100	0.0000000	-0.0001300	0.0000700	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.68	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	-0.0001600	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0005700	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	-0.0000400	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000200	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	-0.0020800	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	-0.0002300	0.0000100	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000400	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.0000000	-0.0009700	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	-0.0001100	0.0000000	0.0000000
Sodium	330.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0012000	0.0000000	0.0002700	-0.0000500	0.0000000
Tin	189.98	0.0000000	0.0000000	0.0000000	0.0001700	0.0000000
Vanadium	292.40	-0.0000300	0.0000000	-0.0004000	0.0000000	0.0000000
Zinc	213.85	0.0000000	0.0000000	-0.0000400	0.0000300	0.0000000

METALS
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: TREADWELL & ROLLO SDG No.: DH005

Contract: PRESIDIO Lab Code: RDD Case No.: SAS No.:

Instrument ID: TJA61 Date: 1/26/2006

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	B	Ba	Be	Cd
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0004600	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.68	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0326900	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000800	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0001300	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0002900	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.0000000	0.0000000	-0.0014400	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0008800	0.0000000
Tin	189.98	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METALS
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: TREADWELL & ROLLO SDG No.: DH005

Contract: PRESIDIO Lab Code: RDD Case No.: _____ SAS No.: _____

Instrument ID: TJA61 Date: 1/26/2006

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Co	Cr	Cu	Mn	Mo
Aluminum	308.22	-0.0009200	0.0000000	0.0000000	0.0014700	0.0130000
Antimony	206.84	-0.0011900	0.0139400	0.0000000	0.0000000	0.0104700
Arsenic	189.04	0.0000000	0.0075900	0.0000000	0.0000000	0.0039900
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.68	0.0016600	0.0000000	0.0000000	0.0000000	-0.0004500
Cadmium	226.50	0.0022100	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0001500	-0.0016400
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0005300
Iron	271.44	0.0000000	0.0000000	0.0000000	-0.0003100	0.0000000
Lead	220.35	0.0004400	-0.0019300	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0032200
Manganese	257.61	0.0000000	0.0001100	0.0000000	0.0000000	-0.0000600
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0002600	0.0000000	0.0000000	0.0000000	-0.0021900
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	-0.0032100	0.0000000	0.0000000	0.0000000	-0.0181500
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0001100	-0.0002500
Sodium	330.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0018800
Thallium	190.86	0.0059300	0.0000000	0.0000000	0.0010300	0.0059800
Tin	189.98	0.0000000	0.0000000	0.0000000	-0.0159500	-0.0005000
Vanadium	292.40	0.0000000	0.0002100	0.0000000	0.0000000	-0.0372200
Zinc	213.85	0.0000000	-0.0005800	0.0033500	0.0000000	-0.0031400

METALS
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ICP INTERELEMENT CORRECTION FACTORS

Client: TREADWELL & ROLLO SDG No.: DH005

Contract: PRESIDIO Lab Code: RDD Case No.: SAS No.:

Instrument ID: TJA61 Date: 1/26/2006

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For:				
		Na	Ni	Pb	Sb	Se
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	-0.0052200	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.68	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0006900	0.0000000	-0.0004700	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0002400	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	-0.0010100	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	-0.0001100	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0006000	0.0000000	0.0000000
Tin	189.98	0.0000000	0.0000000	-0.0001500	-0.0033600	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.85	0.0000000	0.0040100	0.0000000	-0.0011200	0.0000000

METALS
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: TREADWELL & ROLLO SDG No.: DH005

Contract: PRESIDIO Lab Code: RDD Case No.: _____ SAS No.: _____

Instrument ID: TJA61 Date: 1/26/2006

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Si	Sn	Sr	Ti	Tl
Aluminum	308.22	0.0003100	0.0007000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0001000	0.0036200	0.0000000	0.0015800	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.68	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0025400	0.0833000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0017200	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0001700	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0005300
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.98	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METALS
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: TREADWELL & ROLLO SDG No.: DH005

Contract: PRESIDIO Lab Code: RDD Case No.: _____ SAS No.: _____

Instrument ID: TJA61 Date: 1/26/2006

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: V	Zn	La		
Aluminum	308.22	0.0128500	0.0000000	0.0000000		
Antimony	206.84	0.0005500	-0.0010100	0.0000000		
Arsenic	189.04	0.0004100	0.0000000	0.0000000		
Barium	493.41	0.0000000	0.0000000	0.0000000		
Beryllium	313.04	0.0037000	0.0000000	0.0000000		
Boron	249.68	0.0000000	0.0000000	0.0000000		
Cadmium	226.50	0.0000000	0.0000000	0.0000000		
Calcium	317.93	0.0050600	0.0000000	0.0000000		
Chromium	267.72	0.0003100	0.0000000	0.0000000		
Cobalt	228.62	0.0000000	0.0000000	0.0000000		
Copper	324.75	0.0000000	0.0000000	0.0000000		
Iron	271.44	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	0.0000000	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Molybdenum	202.03	0.0000000	0.0000800	0.0000000		
Nickel	231.60	-0.0002200	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.03	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	0.0000000	0.0000000		
Sodium	330.22	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0000000	0.0000000		
Tin	189.98	0.0000000	0.0000000	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	213.85	0.0000000	0.0000000	0.0000000		

METALS

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LINEAR RANGES

Client: TREADWELL & ROLLO **SDG No.:** DH005

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Instrument ID: TJA61 **Date:** 1/27/2006

Analyte	Integration Time (sec)	LDR ug/L
Aluminum	10.00	1000000
Barium	10.00	100000
Calcium	10.00	1000000
Chromium	10.00	100000
Iron	10.00	500000
Magnesium	10.00	1000000
Manganese	10.00	100000
Potassium	10.00	1000000
Sodium	10.00	1000000
Vanadium	10.00	10000
Zinc	10.00	100000

METALS

- 12 -

LINEAR RANGES

Client: TREADWELL & ROLLO **SDG No.:** DH005

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Instrument ID: ELAN 9000 **Date:** 10/7/2005

Analyte	Integration Time (sec)	LDR ug/L
Antimony	10.00	200
Arsenic	10.00	1000
Lead	10.00	1000
Selenium	10.00	1000
Cadmium	10.00	1000
Cobalt	10.00	1000
Copper	10.00	1000
Nickel	10.00	1000
Silver	10.00	1000
Thallium	10.00	1000
Beryllium	10.00	1000

Support Documentation

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: SW6010 Matrix: Water

Instrument ID: TJA61

Concentration Units (ug/L or mg/kg): MG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
Aluminum	08/01/2005	0.06	0.0721	0.0647	0.0695	0.0647	0.0690	0.0658	0.0683	0.0711	0.0028	0.0080
Iron	08/01/2005	0.10	0.1275	0.1169	0.1167	0.1202	0.1291		0.1171	0.1149	0.0057	0.017
Potassium	08/01/2005	1.00	0.9424	0.8816	1.1170	0.9727	1.0030	0.9955	0.8816	1.1480	0.098	0.29
Sodium	08/01/2005	0.50	0.8285	0.8337	0.6880	0.6210	0.6137	0.7910	0.7763	0.6173	0.097	0.29
Barium	08/01/2005	0.01	0.0094	0.0094	0.0094	0.0094	0.0094	0.0094	0.0094	0.0094	0	0.0050
Chromium	08/01/2005	0.01	0.0113	0.0107	0.0133	0.0079	0.0115	0.0105	0.0099	0.0115	0.0015	0.0050
Vanadium	08/01/2005	0.01	0.0118	0.0115	0.0102	0.0105	0.0102	0.0103	0.0105	0.0112	0.0006	0.0020
Calcium	08/01/2005	0.50	0.5637	0.5500	0.5500	0.5500	0.5500	0.5451	0.5546	0.5684	0.0080	0.030
Magnesium	08/02/2005	0.08	0.1095	0.0908	0.0887	0.1003	0.0874	0.0835	0.0902	0.0930	0.0083	0.025
Manganese	08/02/2005	0.003	0.0033	0.0031	0.0033	0.0033	0.0031	0.0033	0.0033	0.0031	0.0001	0.0010
Zinc	08/02/2005	0.01	0.0102	0.0092	0.0095	0.0092	0.0095	0.0090	0.0098	0.0095	0.0004	0.0010

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: SW6020 Matrix: Water

Instrument ID: ELAN 9000

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
Lead	11/11/2005	0.25	0.218	0.224	0.222	0.227	0.217	0.222	0.254	0.248	0.014	0.040
Nickel	11/11/2005	0.50	0.594	0.551	0.593	0.541	0.589	0.570	0.586		0.021	0.070
Silver	11/11/2005	0.50	0.520	0.496	0.518	0.470	0.531	0.516	0.514	0.506	0.019	0.060
Thallium	11/11/2005	0.10	0.103	0.097	0.104	0.091	0.106	0.098	0.101	0.103	0.0047	0.010
Antimony	11/11/2005	0.25	0.098	0.148	0.121	0.112	0.105	0.103	0.097	0.091	0.018	0.050
Cadmium	11/11/2005	0.05	0.039	0.044	0.037	0.043	0.037	0.036	0.040	0.035	0.0031	0.010
Arsenic	11/14/2005	0.25	0.228	0.234	0.257	0.265	0.265	0.239	0.233	0.260	0.015	0.050
Beryllium	11/14/2005	0.05	0.047	0.051	0.055	0.061	0.052	0.055	0.058	0.057	0.0042	0.010
Selenium	11/14/2005	0.50	0.457	0.471	0.566	0.454	0.500	0.529	0.562	0.479	0.045	0.14
Cobalt	11/21/2005	0.50	0.516	0.482	0.481	0.499	0.476	0.454	0.520	0.516	0.023	0.070
Copper	11/21/2005	0.50	0.574	0.533	0.531	0.545	0.528	0.511	0.572	0.559	0.023	0.070

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: SW7470 Matrix: Water

Instrument ID: PE FIMS

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
Mercury	11/04/2005	0.30	0.340	0.333	0.323	0.293	0.321	0.382	0.345	0.346	0.026	0.10

Method:	
	200.2 - Total Recoverable Metals/200.7/200.8
	3005 - Dissolved Metals
X	3010 - Total Metals/ICP
	3020 - Total Metals/GFAA/ICP-MS
	3050B - Total Metals/ICP/GFAA/ICP-MS
	CLP - ILM 4.0

METALS DIGESTION LOG

Analysis Lot #: 031106 ICP2
Hot Plate Temp: (90 - 95°C)
Mod Block Temp: 90°C (90 - 95°C)

Prepared: YM	Date: 03/11/06
Spike Witness: ~~TC~~ 3/11/6	
Reviewed:	
Received:	

Sample Type	Digestion Code	Reference Number	Sample Amount	Final Volume	Acid Conc.	Completed Date	Comments
Water	Dig 2	D0600021-1	50ml	50ml	1%	3/11/06	48hr. Rush
	Dig 7	DH005-1 J					
		-1ms					2.5ml x WS [spk 1,4] 132
		-1msd					1.25ml x WS [spk 3], 26
		-2					
		-3					
		-4					
		-5					
		-6					
	Dig 2	DH006-1 L					
		-2					
		-3					
	Dig 2, 7	WTWSICP0311BLK2					
		WICP0311LCS2	2.5ml				2.5ml x WS [L.29] 118
		WICP0311LCSdup2					

YM
03/11/06

Reagents:	Lot#:	Received:	Opened:
HNO_3	B49053	02/21/06	03/10/06
HCl	B33039	01/24/06	03/02/06

tubes: 10/27/05

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Method:	
	200.2 - Total Recoverable Metals/200.7/200.8
	3005 - Dissolved Metals
	3010 - Total Metals/ICP
X	3020 - Total Metals/GFAA/ICP-MS
	3050B - Total Metals/ICP/GFAA/ICP-MS
	CLP - ILM 4.0

METALS DIGESTION LOG

Analysis Lot #: 031106 ICPMS3
Hot Plate Temp: (90 - 95°C)
Mod Block Temp: 90°C (90 - 95°C)

Prepared: KU	Date: 03/11/06
Spike Witness: [illegible]	
Reviewed:	
Received:	

Sample Type	Digestion Code	Reference Number	Sample Amount	Final Volume	Acid Conc.	Completed Date	Comments
Water	Dig 7	DH005 -1 J	50ml	50ml	2%	03/11/06	
		-1ms					3 0.5ml x WS [ms spk] 125
		-1msd					
		-2					
		-3					
		-4					
		-5					
		-6					
		DH006 -1 M					
		-2					
		-3					
	Dig2	DH006 -1 L					
		-2					
		-3					
	Dig2,7	WTLCSICPMS0311BLK3					
		WTICPMS0311LCS3	0.5ml				3 0.5ml x WS [ms spk] 125
		WTICPMS0311LCSdup3					
	Dig 2	DG993 -1 A	50ml				

KU 03/11/06

Reagents:	Lot#:	Received:	Opened:
HNO_3 KU 3/11/06	B49053	02/21/06	03/10/06
~~HCl~~ H_2O_2	45253545	01/07/06	02/19/06

tubes: 10/27/05

Columbia Analytical Services Inc.
Redding, CA

MERCURY WATER CALIBRATION LOG

Method:		
		SW-846 7470A - Hg Water - CVAA
	X	EPA 245.1 - Hg Water - CVAA
		CLP - ILM 4.0

Water Bath: 95°C
Warm Up bath: 1530-1630
Warm Up tubes: 1630-1640
Cook: 1640-1840
Cool Down: 1840-1940

Solution	Id. #
$KMnO_4$	R1-54-13
$K_2S_2O_8$	R1-53-25
Hydroxylamine	R1-54-9
$SnCl_2$	R1-54-20

Initials: LAS Date: 03-12-06

Sample Type	Concentration (ppb)	Reference Number	Standard Volume	Final Volume	Acid Amounts HNO_3	Acid Amounts H_2SO_4	Reagent Amounts $KMnO_4$	Reagent Amounts $K_2S_2O_8$	Reagent Amounts Hydroxyl-amine	Reagent Amounts $SnCl_2$	Standard Soln
Water	0.2	Calibration 1	0.2ml	20ml	0.5ml	1.0ml	3.0ml	1.5ml	2.0ml	FIMS	HgWSL 2B
	1	Calibration 2	1.0ml	20ml	0.5ml	1.0ml	3.0ml	1.5ml	2.0ml	FIMS	↓
	4	Calibration 3	0.4ml	20ml	0.5ml	1.0ml	3.0ml	1.5ml	2.0ml	FIMS	HgWSH 2B
	6	Calibration 4	0.6ml	20ml	0.5ml	1.0ml	3.0ml	1.5ml	2.0ml	FIMS	↓
	10	Calibration 5	1.0ml	20ml	0.5ml	1.0ml	3.0ml	1.5ml	2.0ml	FIMS	↓
	5	Initial Cal. Ver.	0.5ml	20ml	0.5ml	1.0ml	3.0ml	1.5ml	2.0ml	FIMS	HgWSICV 2B
	4	Cont. Cal. Ver.	0.4ml	20ml	0.5ml	1.0ml	3.0ml	1.5ml	2.0ml	FIMS	HgWSH 2B

LAS
03-12-06

Acids	J.T.Baker Lot #	Received	Opened
HNO_3	B49057	02-21-06	03-10-06
H_2SO_4	B09039	05-31-05	08-01-05

Columbia Analytical Services Inc.
Redding, CA

MERCURY WATER PREPARATION LOG

Method:		
	X	SW-846 7470A - Hg Water - CVAA
		EPA 245.1 - Hg Water - CVAA
		CLP - ILM 4.0

Water Bath: 95°C
Warm Up bath: 1530-1630
Warm Up tubes: 1630-1640
Cook: 1641-1840
Cool Down: 1840-1940

Solution	Id. #
$KMnO_4$	R1-54-13
$K_2S_2O_8$	R1-53-25
Hydroxylamine	R1-54-9
$SnCl_2$	R1-54-20

Initials: LAS
Date: 03-12-06

Sample Type	Digestion Code	Reference Number		Sample Amount	Final Volume	Acid Amounts HNO_3	Acid Amounts H_2SO_4	Reagent Amounts $KMnO_4$	Reagent Amounts $K_2S_2O_8$	Reagent Amounts Hydroxyl-amine	Reagent Amounts $SnCl_2$	Comments
Water	CV7470A-TCLP-HG	DG963-2	C	20ml	20ml	0.5ml	1.0ml	3.0ml	1.5ml	2.0ml	FIMS	TCLP
		-2MS										
		-2MSD										
		TCHG0312 Blk1										
	CV7470A-HG	LFHG0312LCS1										
		LFHG0312LCS1 dup										
		L0600389-0031										
		-3MS										
		-3MSD										
		-4										
		-7										
		-7MS										
		-7MSD										
		-8										
		D0600021-1										
		D0600020-1										
		DG968-1	A									
	CV7470A-SOL-HG	DH005-5	J									
		-6										
		DH009-2	H									
		WTWS0312 Blk2										
				LAS	03-12-06							

Acids	J.T.Baker Lot #	Received	Opened
HNO_3	B49053	02-21-06	03-10-06
H_2SO_4	B08039	05-31-05	08-01-05

*LCS Spiking Solution: HgWSLCS 2B
* Spiking Solution: HgWSH 2B

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	CB	ANADATA	6010_06A	03/13/06	18:16		X	IR
2	STD	ANADATA	6010_06A	03/13/06	18:19		X	IR
3	STD1	ANADATA	6010_06A	03/13/06	18:21		X	IR
4	~~ICV~~ EG 3-14-06	ANADATA	6010_06A	03/13/06	18:29	EG	Q	CONC
5	ICV	ANADATA	6010_06A	03/13/06	18:31	EG	Q	CONC
6	ICVAg	ANADATA	6010_06A	03/13/06	18:34	EG	Q	CONC
7	ICB	ANADATA	6010_06A	03/13/06	18:38	EG	B	CONC
8	RLS	ANADATA	6010_06A	03/13/06	18:41	EG	Q	CONC
9	RLS Pa	ANADATA	6010_06A	03/13/06	18:44	EG	Q	CONC
10	ICSA	ANADATA	6010_06A	03/13/06	18:47	EG	Q	CONC
11	ICSAB	ANADATA	6010_06A	03/13/06	18:52	EG	Q	CONC
12	WTIC0311BLK2	ANADATA	6010_06A	03/13/06	18:58	EG	S	CONC
13	LCSW29	ANADATA	6010_06A	03/13/06	19:02	EG	S	CONC
14	LCSW29Dup	ANADATA	6010_06A	03/13/06	19:06	EG	S	CONC
15	WTD0600021-001	ANADATA	6010_06A	03/13/06	19:11	EG	S	CONC
16	WTDH006001	ANADATA	6010_06A	03/13/06	19:15	EG	S	CONC
17	WTDH006002X10	ANADATA	6010_06A	03/13/06	19:19	EG	S	CONC
18	WTDH006003X10	ANADATA	6010_06A	03/13/06	19:23	EG	S	CONC
19	WTDH005001	ANADATA	6010_06A	03/13/06	19:27	EG	S	CONC
20	WTDH005001MS	ANADATA	6010_06A	03/13/06	19:31	EG	S	CONC
21	WTDH005001MSD	ANADATA	6010_06A	03/13/06	19:37	EG	S	CONC
22	CCV	ANADATA	6010_06A	03/13/06	19:43	EG	Q	CONC
23	CCVAg	ANADATA	6010_06A	03/13/06	19:46	KL	Q	CONC
24	CCB	ANADATA	6010_06A	03/13/06	19:55	EG	S	CONC
25	~~WTDH005001A~~	ANADATA	6010_06A	03/13/06	19:57	EG	S	CONC
26	WTDH005001L	ANADATA	6010_06A	03/13/06	20:01	EG	S	CONC
27	WTDH005002 Sipper tube	ANADATA	6010_06A	03/13/06	20:05	EG	S	CONC
28	WTDH005003 was out.	ANADATA	6010_06A	03/13/06	20:09	EG	S	CONC
29	WTDH005004 EG 3-14-06	ANADATA	6010_06A	03/13/06	20:13	EG	S	CONC
30	WTDH005005	ANADATA	6010_06A	03/13/06	20:18	EG	S	CONC
31	WTDH005006	ANADATA	6010_06A	03/13/06	20:22	EG	S	CONC
32	WTIC0307BLK1	ANADATA	6010_06A	03/13/06	20:31	EG	S	CONC
33	LCSW29	ANADATA	6010_06A	03/13/06	20:35	EG	S	CONC
34	LCSWDUP1 EG 3-14-06	ANADATA	6010_06A	03/13/06	20:39	EG	S	CONC
35	CCV	ANADATA	6010_06A	03/13/06	20:47	EG	Q	CONC
36	CCVAg	ANADATA	6010_06A	03/13/06	20:52	KL	Q	CONC
37	CCB	ANADATA	6010_06A	03/13/06	21:00	EG	B	CONC
38	WSL0600396-002	ANADATA	6010_06A	03/13/06	21:04	EG	S	CONC
39	WSL0600396-003	ANADATA	6010_06A	03/13/06	21:08	EG	S	CONC
40	~~WSL0600396-004~~	ANADATA	6010_06A	03/13/06	21:12	EG	S	CONC
41	CCV	ANADATA	6010_06A	03/13/06	21:22	EG	Q	CONC
42	CCVAg	ANADATA	6010_06A	03/13/06	21:28	KL	Q	CONC
43	CCB	ANADATA	6010_06A	03/13/06	21:33	EG	B	CONC
44	WTDH005001A	ANADATA	6010_06A	03/13/06	21:37	EG	S	CONC
45	WTDH005001L	ANADATA	6010_06A	03/13/06	21:41	EG	S	CONC
46	WTDH005002	ANADATA	6010_06A	03/13/06	21:45	EG	S	CONC
47	WTDH005003	ANADATA	6010_06A	03/13/06	21:49	EG	S	CONC
48	WTDH005004	ANADATA	6010_06A	03/13/06	21:54	EG	S	CONC
49	WTDH005005	ANADATA	6010_06A	03/13/06	21:58	EG	S	CONC
50	WTDH005006	ANADATA	6010_06A	03/13/06	22:02	EG	S	CONC
51	WTIC0307BLK1	ANADATA	6010_06A	03/13/06	22:11	EG	S	CONC
52	LCSW29	ANADATA	6010_06A	03/13/06	22:15	EG	S	CONC
53	LCSWDUP1	ANADATA	6010_06A	03/13/06	22:19	EG	S	CONC

EG 3-14-06

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	CCV 1	ANADATA	6010_06A	03/13/06	22:27	EG	Q	CONC
55	CCVAg	ANADATA	6010_06A	03/13/06	22:32	KL	Q	CONC
56	CCB 1	ANADATA	6010_06A	03/13/06	22:40	EG	B	CONC
57	WSL0600396-002	ANADATA	6010_06A	03/13/06	22:44	EG	S	CONC
58	WSL0600396-003	ANADATA	6010_06A	03/13/06	22:48	EG	S	CONC
59	WSL0600396-004	ANADATA	6010_06A	03/13/06	22:52	EG	S	CONC
60	WSL0600396-005	ANADATA	6010_06A	03/13/06	22:56	EG	S	CONC
61	WSL0600396-006	ANADATA	6010_06A	03/13/06	23:00	EG	S	CONC
62	WSL0600396-007	ANADATA	6010_06A	03/13/06	23:05	EG	S	CONC
63	WSL0600396-008	ANADATA	6010_06A	03/13/06	23:09	EG	S	CONC
64	CCV	ANADATA	6010_06A	03/13/06	23:16	EG	Q	CONC
65	CCVAg	ANADATA	6010_06A	03/13/06	23:22	EG	Q	CONC
66	CCB	ANADATA	6010_06A	03/13/06	23:30	EG	B	CONC
67	WSIC0313BLK1	ANADATA	6010_06A	03/13/06	23:34	EG	S	CONC
68	WSIC0313BLK2	ANADATA	6010_06A	03/13/06	23:38	EG	S	CONC
69	WSIC0313BLK3	ANADATA	6010_06A	03/13/06	23:42	EG	S	CONC
70	WSDG535006	ANADATA	6010_06A	03/13/06	23:46	EG	S	CONC
71	WSDG586006	ANADATA	6010_06A	03/13/06	23:50	EG	S	CONC
72	WSDG643006	ANADATA	6010_06A	03/13/06	23:54	EG	S	CONC
73	WSDG686006	ANADATA	6010_06A	03/13/06	23:58	EG	S	CONC
74	WSDG748006	ANADATA	6010_06A	03/14/06	00:03	EG	S	CONC
75	WSDG802006	ANADATA	6010_06A	03/14/06	00:07	EG	S	CONC
76	WSDG535008	ANADATA	6010_06A	03/14/06	00:11	EG	S	CONC
77	CCV	ANADATA	6010_06A	03/14/06	00:20	KL	Q	CONC
78	CCB	ANADATA	6010_06A	03/14/06	00:29	KL	B	CONC
79	WSDG586008	ANADATA	6010_06A	03/14/06	00:33	EG	S	CONC
80	WSDG643008	ANADATA	6010_06A	03/14/06	00:37	EG	S	CONC
81	WSDG686008	ANADATA	6010_06A	03/14/06	00:41	EG	S	CONC
82	WSDG748008	ANADATA	6010_06A	03/14/06	00:45	EG	S	CONC
83	WSDG802008	ANADATA	6010_06A	03/14/06	00:49	EG	S	CONC
84	WSDG535009	ANADATA	6010_06A	03/14/06	00:53	EG	S	CONC
85	WSDG586009	ANADATA	6010_06A	03/14/06	00:58	EG	S	CONC
86	WSDG643009	ANADATA	6010_06A	03/14/06	01:02	EG	S	CONC
87	WSDG686009	ANADATA	6010_06A	03/14/06	01:06	EG	S	CONC
88	WSDG748009	ANADATA	6010_06A	03/14/06	01:10	EG	S	CONC
89	CCV	ANADATA	6010_06A	03/14/06	01:18	EG	Q	CONC
90	CCB	ANADATA	6010_06A	03/14/06	01:26	EG	B	CONC
91	WSDG802009	ANADATA	6010_06A	03/14/06	01:30	EG	S	CONC
92	WSDG535007	ANADATA	6010_06A	03/14/06	01:34	EG	S	CONC
93	WSDG586007	ANADATA	6010_06A	03/14/06	01:38	EG	S	CONC
94	WSDG643007	ANADATA	6010_06A	03/14/06	01:42	EG	S	CONC
95	WSDG686007	ANADATA	6010_06A	03/14/06	01:46	EG	S	CONC
96	WSDG748007	ANADATA	6010_06A	03/14/06	01:50	EG	S	CONC
97	WSDG802007	ANADATA	6010_06A	03/14/06	01:54	EG	S	CONC
98	WSDG535002	ANADATA	6010_06A	03/14/06	01:59	EG	S	CONC
99	WSDG586002	ANADATA	6010_06A	03/14/06	02:03	EG	S	CONC
100	WSDG643002	ANADATA	6010_06A	03/14/06	02:07	EG	S	CONC
101	CCV1	ANADATA	6010_06A	03/14/06	02:16	EG	Q	CONC
102	CCB1	ANADATA	6010_06A	03/14/06	02:25	EG	B	CONC
103	WSDG686002	ANADATA	6010_06A	03/14/06	02:29	EG	S	CONC
104	WSDG748002	ANADATA	6010_06A	03/14/06	02:33	EG	S	CONC
105	WSDG802002	ANADATA	6010_06A	03/14/06	02:37	EG	S	CONC
106	WSDG535003	ANADATA	6010_06A	03/14/06	02:41	EG	S	CONC
107	WSDG586003	ANADATA	6010_06A	03/14/06	02:45	EG	S	CONC

Dataset Report

User Name: [illegible]
Dataset File Path: C:\elandata\Dataset\033106\
Report Date/Time: Saturday, April 01, 2006 11:02:41

The Dataset

Batch ID	Sample ID	Date and Time	Method	Description
SmartTune - B	Mass Calibration and Resolution	09:11:22 Fri 31-Mar-06	CAS tuning.mth	
SmartTune - B	Lens Voltage	09:12:58 Fri 31-Mar-06	CAS optimize.mth	
SmartTune - B	Mass Calibration and Resolution	09:13:47 Fri 31-Mar-06	CAS tuning.mth	
SmartTune - B	Lens Voltage	09:15:21 Fri 31-Mar-06	CAS optimize.mth	
SmartTune - B	Mass Calibration and Resolution	09:16:13 Fri 31-Mar-06	C:\elandata\Method\CAS tuning.mth	
SmartTune - B	Lens Voltage	09:17:47 Fri 31-Mar-06	C:\elandata\Method\CAS optimize.mth	
SmartTune - B	Auto Lens Calibration	09:19:51 Fri 31-Mar-06	C:\elandata\Method\CAS AutoLens Calibration.mth	Auto Lens Calib
SmartTune - B	Daily Performance Check	09:29:47 Fri 31-Mar-06	C:\elandata\Method\CAS Daily.mth	
	Blank	11:11:03 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
	Standard 1	11:13:15 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
	ICV	11:19:07 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
	ICB	11:28:43 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
	RLS	11:31:30 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
	ICSA	11:37:13 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
	ICSAB	11:42:56 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
~~033106~~	~~WSICPMS0328BLK3~~	11:52:25 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
~~033106~~	~~LWICPMS0328LCS3X10~~	11:54:37 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF10
033106	WSICPMS0328BLK3	12:05:17 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	LWICPMS0328LCS3	12:07:30 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	LWICPMS0328LCSD3	12:09:43 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSDH031-001	12:11:55 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
	CCV	12:14:32 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
	CCB	12:22:10 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
033106	WSDH031-002	12:24:06 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSDH031-003	12:26:19 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSDH031-003L	12:28:32 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF5
033106	WSDH031-003A	12:30:44 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSDH031-003MSX10	12:32:56 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF10
033006A	CCV	12:54:39 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
033006A	CCB	13:02:16 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
033106	WTL0600499014	13:04:48 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF5
033106	WTL0600499014L	13:06:51 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTL0600499014A	13:08:54 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTL0600499014MS	13:10:58 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTL0600499014MSD	13:13:02 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSDH031-004	13:15:06 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSDH031-005	13:17:10 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSDH031-006	13:19:13 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
	CCV	13:21:51 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
	CCB	13:29:28 Fri 31-Mar-06	C:\elandata\Method\033106.mth	

DH005
S + A

033106	WSDH031-007	13:31:14 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSDH031-008	13:33:19 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033006A	CCV	13:36:22 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
033006A	CCB	13:43:59 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
033106	WSICPMS0330BLK1	13:50:17 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	LWICPMS0330LCS1	13:52:19 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	LWICPMS0330LCSD1	13:54:22 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
	CCV	13:57:00 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
	CCB	14:04:37 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
033106	WSL0600375-002	14:06:23 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSL0600375-003	14:08:26 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSL0600375-004	14:10:29 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSL0600375-005	14:12:33 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSL0600375-006	14:14:37 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSL0600375-007	14:16:40 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSL0600383-002	14:18:43 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
	CCV	14:21:20 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
	CCB	14:28:58 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
033106	WSL0600383-003	14:30:45 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSL0600383-004	14:32:49 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSL0600383-005	14:34:52 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSL0600383-006	14:36:55 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSL0600383-008	14:38:58 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSL0600383-009	14:41:01 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSL0600383-010	14:43:05 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
	CCV	14:45:42 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
	CCB	14:53:19 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
033106	WSL0600383-011	14:55:06 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSL0600383-012	14:57:10 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSL0600383-013	14:59:14 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSL0600383-013L	15:01:17 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF5
033106	WSL0600383-013A	15:03:21 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSL0600383-013MS	15:05:24 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSL0600383-013MSD	15:07:27 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
	CCV	15:10:05 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
	CCB	15:17:42 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
033106	WSL0600383-014	15:19:29 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTWSICPMS0311BLK2	15:21:32 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	LWICPMS0311LCS2X10	15:23:35 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF10
033106	LWICPMS0311LCSD2X10	15:25:38 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF10
033106	WTDH005001	15:27:42 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTDH005001L	15:29:46 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF5
033106	WTDH005001A	15:31:50 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTDH005001MSX10	15:33:53 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF10
033106	WTDH005001MSDX10	15:35:57 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF10
	CCV	15:38:35 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
	CCB	15:46:11 Fri 31-Mar-06	C:\elandata\Method\033106.mth	

033106	WTDH005002	15:47:59 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	~~WTDH005003~~	15:50:02 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	~~WTDH005004~~	15:52:06 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTDH005005	15:54:09 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTDH005006	15:56:13 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTWSICPMS0315BLK2	15:58:17 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	LWICPMS0315LCS2X10	16:00:21 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF10
033106	LWICPMS0315LCSD2X10	16:02:24 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF10
	CCV	16:05:03 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
	CCB	16:12:40 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
033106	WSDH009001	16:14:27 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSDH009001L	16:16:30 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF5
033106	WSDH009001A	16:18:34 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
~~033106~~	~~WSDH009001MS~~	16:20:39 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
~~033106~~	~~WSDH009001MSD~~	16:22:43 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSDH009001MS	16:30:48 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
033106	WSDH009001MSD	16:36:10 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
033106	CCV	16:38:32 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
033106	CCB	16:46:10 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
033106	WSDH009002	16:55:39 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSDH009003	16:57:43 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSDH009004	16:59:48 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTDH009002	17:01:54 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTDH009003	17:03:59 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTICPMS0323BLK2	17:06:03 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	LWICPMS0323LCS2X10	17:08:07 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF10
033106	LWICPMS0323LCSD2X10	17:10:12 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF10
	CCV	17:12:50 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
	CCB	17:20:27 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
033106	WTL0600492001	17:22:15 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTL0600483001	17:24:19 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTL0600483001L	17:26:24 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTL0600483001A	17:28:28 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTL0600483001MSX10	17:30:33 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF10
033106	WTL0600483001MSDX10	17:32:37 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF10
033106	WSICPMS0323BLK1	17:34:51 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	LWICPMS0323LCS1	17:37:06 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	LWICPMS0323LCSD1	17:39:21 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
	CCV	17:42:00 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
	CCB	17:49:37 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
033106	WSL0600499002	17:51:35 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSL0600499002L	17:53:50 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF5
033106	WSL0600499002A	17:56:04 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSL0600499002MS	17:58:20 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSL0600499002MSD	18:00:34 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSL0600499003	18:02:50 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSL0600499004	18:05:05 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS

Dataset Report

User Name: dmetcalf
Dataset File Path: C:\elandata\Dataset\031406\
Report Date/Time: Sunday, April 02, 2006 10:20:26

The Dataset

Batch ID	Sample ID	Date and Time	Method	Description
SmartTune - B	Mass Calibration and Resolution	13:04:31 Sat 01-Apr-06	C:\elandata\Method\CAS tuning.mth	
SmartTune - B	Lens Voltage	13:06:05 Sat 01-Apr-06	C:\elandata\Method\CAS optimize.mth	
SmartTune - B	Auto Lens Calibration	13:08:10 Sat 01-Apr-06	C:\elandata\Method\CAS AutoLens Calibration.mth	Auto Lens Calib
SmartTune - B	Daily Performance Check	13:18:06 Sat 01-Apr-06	C:\elandata\Method\CAS Daily.mth	
	Blank	13:28:10 Sat 01-Apr-06	C:\elandata\Method\040106.mth	
	Standard 1	13:32:15 Sat 01-Apr-06	C:\elandata\Method\040106.mth	
	ICV	13:38:01 Sat 01-Apr-06	C:\elandata\Method\040106.mth	
	ICB	13:47:12 Sat 01-Apr-06	C:\elandata\Method\040106.mth	
	RLS - [illegible]	13:52:04 Sat 01-Apr-06	C:\elandata\Method\040106.mth	
	ICSA	13:58:51 Sat 01-Apr-06	C:\elandata\Method\040106.mth	
	ICSAB	14:04:40 Sat 01-Apr-06	C:\elandata\Method\040106.mth	
040106	SOL0600444-005	14:13:03 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 SOILS DF5
040106	SOL0600444-005L	14:16:10 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 SOILS DF25
040106	SOL0600444-005A	14:19:18 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 SOILS DF5
040106	SOL0600444-005MS	14:22:26 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 SOILS DF5
040106	SOL0600444-005MSD	14:25:34 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 SOILS DF5
	CCV	14:31:28 Sat 01-Apr-06	C:\elandata\Method\040106.mth	
	CCB	14:39:20 Sat 01-Apr-06	C:\elandata\Method\040106.mth	
040106	SOL0600444-006	14:44:09 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 SOILS DF5
040106	SOL0600444-007	14:47:17 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 SOILS DF5
	CCV	14:50:49 Sat 01-Apr-06	C:\elandata\Method\040106.mth	
	CCB	14:58:42 Sat 01-Apr-06	C:\elandata\Method\040106.mth	
040106	SOL0600444-008	15:02:33 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 SOILS DF5
040106	SOL0600444-009	15:05:41 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 SOILS DF5
040106	SOL0600444-010	15:08:49 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 SOILS DF5
040106	SOL0600444-011	15:11:58 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 SOILS DF5
040106	SOL0600444-012	15:15:07 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 SOILS DF5
040106	SOL0600444-013	15:18:16 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 SOILS DF5
040106	SOL0600444-014	15:21:23 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 SOILS DF5
	CCV	15:24:56 Sat 01-Apr-06	C:\elandata\Method\040106.mth	
	CCB	15:32:48 Sat 01-Apr-06	C:\elandata\Method\040106.mth	
040106	SOL0600444-015	15:36:39 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 SOILS DF5
040106	SOL0600444-016	15:39:47 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 SOILS DF5
040106	SOL0600444-017	15:42:56 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 SOILS DF5
040106	SOL0600444-018	15:46:03 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 SOILS DF5
040106	SOL0600444-019	15:49:11 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 SOILS DF5
040106	SOL0600444-020	15:52:19 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 SOILS DF5
040106	WTICPMS0320BLK1	15:55:27 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS
040106	LCSWO320LCS1	15:58:35 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS
040106	LCSWO320LCSD1	16:01:44 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS

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040106	SOD0600048012	19:01:53 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 SOILS DF5
040106	RINSE	19:05:02 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 SOILS DF5
040106	RINSE	19:08:12 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 SOILS DF25
	CCV	19:11:46 Sat 01-Apr-06	C:\elandata\Method\040106.mth	
	CCB	19:19:38 Sat 01-Apr-06	C:\elandata\Method\040106.mth	
040106	RINSE	19:23:30 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 SOILS DF5
040106	RINSE	19:26:39 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 SOILS DF5
040106	RINSE	19:29:49 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 SOILS DF5
040106	WTWSICPMS0311BLK3	19:32:59 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS
040106	LWICPMS0311LCS3	19:36:08 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS
040106	LWICPMS0311LCSD3	19:39:18 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS
040106	WSDH005001	19:42:28 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS
040106	WSDH005001L	19:45:37 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS DF5
040106	WSDH005001A	19:48:47 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS
040106	WSDH005001MS	19:51:56 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS
040106	WSDH005001MSD	19:55:06 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS
	CCV	19:58:40 Sat 01-Apr-06	C:\elandata\Method\040106.mth	
	CCB	20:06:32 Sat 01-Apr-06	C:\elandata\Method\040106.mth	
040106	WSDH005002	20:10:25 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS
040106	WSDH005003	20:13:35 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS
040106	WSDH005004	20:16:45 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS
040106	WSDH005005	20:19:55 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS
040106	WSDH005006	20:23:05 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS
040106	WTWSICPMS0315BLK2	20:26:15 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS
040106	LWICPMS0315LCS2	20:29:25 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS
040106	LWICPMS0315LCSD2	20:32:34 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS
	CCV	20:36:08 Sat 01-Apr-06	C:\elandata\Method\040106.mth	
	CCB	20:44:00 Sat 01-Apr-06	C:\elandata\Method\040106.mth	
~~040106~~	~~WTDH009002~~	20:47:53 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS
040106	WTDH009003	20:51:03 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS
040106	WSDH009001	20:54:12 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS
040106	WSDH009002	20:57:22 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS
040106	WSDH009003	21:00:32 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS
040106	WSDH027003	21:03:42 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS
040106	WSDH027003L	21:06:53 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS DF5
040106	WSDH027003A	21:10:03 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS
040106	WSDH027003MS	21:13:13 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS
~~040106~~	~~WSDH027003MSD~~	21:16:23 Sat 01-Apr-06	C:\elandata\Method\040106.mth	6020 WATERS
	~~CCV~~			
	~~CCB~~			

Dataset Report

User Name: dmetcalf
Dataset File Path: C:\elandata\Dataset\Ap[illegible]\040306A\
Report Date/Time: Monday, April 03, 2006 [illegible]:22:36

The Dataset

Batch ID	Sample ID	Date and Time	Method	Description
	Blank	12:13:56 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	Standard 1	12:17:44 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	ICV	12:23:12 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	ICB	12:32:06 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	RLS	12:36:39 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	ICSA	12:43:08 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	ICSAB	12:48:39 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
040306A	WTWSICPMS0311BLK3	12:56:45 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	LWICPMS0311LCS3	12:59:35 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	LWICPMS0311LCSD3	13:02:24 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH005001	13:05:13 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH005001L	13:08:02 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS DF5
040306A	WSDH005001A	13:10:51 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH005001MS	13:13:40 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH005001MSD	13:16:30 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
	CCV	13:19:44 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	CCB	13:27:17 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
040306A	WSDH005002	13:30:51 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH005003	13:33:41 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH005004	13:36:31 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH005005	13:39:22 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH005006	13:42:12 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WTDH006001	13:45:02 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WTDH006002	13:47:52 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
	CCV	13:53:13 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	CCV	14:04:10 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	Blank	14:14:25 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	Standard 1	14:18:12 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	ICV	14:23:40 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	ICB	14:32:33 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	RLS	14:37:07 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	ICSA	14:43:36 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	ICSAB	14:49:07 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
040306A	WSDH005002	14:57:13 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH005003	15:00:03 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH005004	15:02:53 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH005005	15:05:45 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH005006 — no Be	15:08:35 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WTDH006001	15:11:24 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WTDH006002	15:14:14 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS

DH005
Be, Co, Cu, Ni, Pb only

		15:22:36 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
		15:30:09 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
040306A	WTDH006002X10	15:34:56 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS DF10
	CCV	15:38:10 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	CCB	15:45:45 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
040306A	WTDH006003	15:49:18 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH006001	15:52:08 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH006002	15:54:58 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH006003	15:57:47 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WTWSICPMS0315BLK2	16:00:36 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	LWICPMS0315LCS2	16:03:26 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	LWICPMS0315LCSD2	16:06:16 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WTDH009002	16:09:06 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
	CCV	16:12:21 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	CCB	16:19:54 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
040306A	WTDH009003	16:23:29 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH009001	16:26:19 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH009002	16:29:08 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH009003	16:31:58 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH009004	16:34:48 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH027003	16:37:38 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH027003L	16:40:28 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS DF5
040306A	WSDH027003A	16:43:17 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH027003MS	16:46:07 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH027003MSD	16:48:57 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
	CCV	16:56:36 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	CCB	17:04:09 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	

DH005 (Tl + Be)

Dataset Report

User Name: dmetcalf
Dataset File Path: C:\elandata\Dataset\Apr 06\041306A\
Report Date/Time: Thursday, April 13, 2006 15:38:56

RePFile 41206A at the End

The Dataset

Batch ID	Sample ID	Date and Time	Method	Description
	Blank	13:10:00 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
	Standard 1	13:14:02 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
	ICV	13:19:45 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
	ICB	13:28:51 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
	RLS	13:33:38 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
	ICSA	13:40:21 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
	ICSAB	13:46:05 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
041306A	WTWSICPMS0311BLK3	13:54:25 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	LWICPMS0311LCS3	13:57:29 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	LWICPMS0311LCSD3	14:00:35 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	~~WSDH005-001~~	14:03:39 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	WSDH005-002	14:06:45 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	WSDH005-003	14:09:50 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	~~WSDH005-004~~	14:12:55 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	WSDH005-005	14:16:00 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
	CCV	14:19:29 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
	CCB	14:27:17 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
041306A	~~WSDH005-006~~	14:31:05 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	WTWSICPMS0315BLK2	14:34:11 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	LWICPMS0315LCS2	14:37:16 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	LWICPMS0315LCSD2	14:40:21 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	WTDH009-002	14:43:26 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	WTDH009-003	14:46:32 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	WSDH009-001	14:49:37 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	WSDH009-002	14:52:42 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
	CCV	14:56:11 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
	CCB	15:03:59 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
041306A	WSDH009-003	15:07:47 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	WSDH009-004	15:10:53 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
	CCV	15:14:20 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
	CCB	15:22:06 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
041306A	WSDH005-006	15:25:55 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
	CCV	15:29:24 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
	CCB	15:37:11 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	

Tl only

No Be see run Dw 4-13-06

Tl + Be

Element : Hg
Method : SW7470/SW7471/EPA245.1/EPA245.5
Run # : V060312

Analyst (Date/Initials) 03-12-06 LAS
Reduced (Date/Initials) 03-13-06 LAS
Reviewed (Date/Initials) 3-15-06

Correlation: 0.99998
Slope : 0.01467
Intercept : 0.0003

Soil Units : mg/kg
Water Units: ug/L

Sample ID	Date	Time	Absorb	Dil	Wt FVol	Concentration	%Rec	RSD
Calib Blank	03/12/2006	18:19:00	0.0007	1		0		NA
Standard 1	03/12/2006	18:21:19	0.0034	1		0.2		NA
Standard 2	03/12/2006	18:23:41	0.0149	1		1		NA
Standard 3	03/12/2006	18:26:06	0.0593	1		4		NA
Standard 4	03/12/2006	18:28:33	0.0877	1		6		NA
Standard 5	03/12/2006	18:30:58	0.1471	1		10		NA
ICV1	03/12/2006	18:34:24	0.0711	1		4.83 / 5.0	96.6	2.3
ICB1	03/12/2006	18:36:42	-0.0000	1		<0.10		NA
TCHG0312BLK1	03/12/2006	18:39:01	-0.0000	1		<0.10		NA
LFHG0312LCS1	03/12/2006	18:41:20	0.0296	1		2.00 / 2.0	100.0	1.1
LFHG0312LCS1D	03/12/2006	18:43:42	0.0295	1		1.99 - 2.0 / 2.0 RPD =	0.3 / 2.0	
							99.6	1.5
WTDG963002L	03/12/2006	18:46:04	-0.0001	5		<0.50 %D =	NA	NA
WTDG963002	03/12/2006	18:48:39	0.0004	1		<0.10		NA
WTDG963002A	03/12/2006	18:51:45	0.0299	1		2.02 - 0 / 2.0	101.2	0.0
WTDG963002MS	03/12/2006	18:54:05	0.0313	1		2.12 - 0 / 2.0 RPD= 4.3	105.8	1.3
WTDG963002MSD	03/12/2006	18:56:23	0.0300	1		2.03 - 0 / 2.0	101.3	0.4
WTWSHG0312BLK2	03/12/2006	18:58:41	-0.0002	1		<0.10		NA
CCV1	03/12/2006	19:01:01	0.0603	1		4.09 / 4.0	102.4	0.7
CCB1	03/12/2006	19:03:19	0.0004	1		<0.10		NA
L0600389-003L	03/12/2006	19:05:43	0.0000	5		<0.50 %D =	NA	NA
L0600389-003	03/12/2006	19:08:01	0.0002	1		<0.10		NA
L0600389-003A	03/12/2006	19:11:00	0.0302	1		2.04 - 0 / 2.0	102.2	3.0
L0600389-003MS	03/12/2006	19:13:19	0.0273	1		1.85 - 0 / 2.0	92.3	0.8
L0600389-003MSD	03/12/2006	19:15:40	0.0277	1		1.87 - 0 / 2.0 RPD= 1.4	93.6	1.9
L0600389-004	03/12/2006	19:18:02	-0.0000	1		<0.10		NA
L0600389-007L	03/12/2006	19:20:24	0.0007	5		<0.50 %D =	NA	NA
L0600389-007	03/12/2006	19:22:45	0.0034	1		0.217		NA
L0600389-007A	03/12/2006	19:28:38	0.0292	1		1.98 - 0.2 / 2.0	88.0	1.3
CCV2	03/12/2006	19:31:02	0.0615	1		4.17 / 4.0	104.4	0.2
CCB2	03/12/2006	19:33:23	-0.0001	1		<0.10		NA
L0600389-007MS	03/12/2006	19:35:39	0.0289	1		1.95 - 0.2 / 2.0	86.8	3.0
L0600389-007MSD	03/12/2006	19:37:55	0.0287	1		1.94 - 0.2 / 2.0 RPD=0.5	86.4	1.6
L0600389-008	03/12/2006	19:42:53	0.0121	1		0.810		4.0
D0600021-001	03/12/2006	19:45:22	0.0038	1		0.241		NA
D0600020-001	03/12/2006	19:47:40	0.0027	1		0.165		NA
WTDG968001	03/12/2006	19:50:00	0.0094	1		0.626		4.6
WSDH005005	03/12/2006	19:52:18	0.0094	1		0.625		1.7
WSDH005006	03/12/2006	19:54:39	0.0002	1		<0.10		NA
WSDH009002	03/12/2006	19:57:05	0.0099	1		0.658		1.3
CCV3	03/12/2006	19:59:26	0.0623	1		4.23 / 4.0	105.7	0.5
CCB3	03/12/2006	20:01:46	-0.0000	1		<0.10		NA
				0		0.0000		0.0

GC TPH DIESEL/MOTOROIL

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: 03/07/2006
Date Received: 03/08/2006

Diesel Range Organics / Motor Oil Range Organics

Sample Name: 1065PZ5ARCL
Lab Code: DH005002
Extraction SW3510
Analysis Method: SW8015

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Motor Oil (C24-C36)	ND	U	300	1	03/13/2006	04/06/2006	DWB10313	
TPH-Diesel (C10-C24)	**72**		50	1	03/13/2006	04/06/2006	DWB10313	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	88	65-135	04/06/2006	
Triacontane - SS	88	65-135	04/06/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Collected:**	03/07/2006
Sample Matrix:	Water	**Date Received:**	03/08/2006

Diesel Range Organics / Motor Oil Range Organics

Sample Name:	610GW103CL		
Lab Code:	DH005003	**Units:**	ug/L (ppb)
Extraction	SW3510	**Basis:**	NA
Analysis Method:	SW8015		

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Motor Oil (C24-C36)	ND	U	300	1	03/13/2006	04/06/2006	DWB10313	
TPH-Diesel (C10-C24)	ND	U	50	1	03/13/2006	04/06/2006	DWB10313	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	101	65-135	04/06/2006	
Triacontane - SS	102	65-135	04/06/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: 03/07/2006
Date Received: 03/08/2006

Diesel Range Organics / Motor Oil Range Organics

Sample Name: LF5GW104CL
Lab Code: DH005005
Extraction SW3510
Analysis Method: SW8015

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Motor Oil (C24-C36)	ND	U	300	1	03/13/2006	04/07/2006	DWB10313	
TPH-Diesel (C10-C24)	ND	U	50	1	03/13/2006	04/07/2006	DWB10313	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	87	65-135	04/07/2006	
Triacontane - SS	87	65-135	04/07/2006	

Comments:

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: 03/07/2006
Date Received: 03/08/2006

Diesel Range Organics / Motor Oil Range Organics

Sample Name: 1349MW102CL
Lab Code: DH005006
Extraction SW3510
Analysis Method: SW8015

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Motor Oil (C24-C36)	ND	U	300	1	03/13/2006	04/07/2006	DWB10313	
TPH-Diesel (C10-C24)	**60**		50	1	03/13/2006	04/07/2006	DWB10313	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	119	65-135	04/07/2006	
Triacontane - SS	108	65-135	04/07/2006	

Comments: _____

QC Summary

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: NA
Date Received: NA

Diesel Range Organics / Motor Oil Range Organics

Sample Name: Method Blank
Lab Code: DWB10313
Extraction SW3510
Analysis Method: SW8015

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Motor Oil (C24-C36)	ND	U	300	1	03/13/2006	04/06/2006	DWB10313	
TPH-Diesel (C10-C24)	ND	U	50	1	03/13/2006	04/06/2006	DWB10313	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	104	65-135	04/06/2006	
Triacontane - SS	106	65-135	04/06/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005

Surrogate Recovery Summary
Diesel Range Organics / Motor Oil Range Organics

Prep Method: SW3510
Analysis Method: SW8015

Units: Percent

Sample Name	Lab Code	Q	S1	S2
Method Blank	DWB10313		104	106
Laboratory Control Sample	DWB10313LCS		104	104
LF5GW104CL	DH005005		87	87
1349MW102CL	DH005006		119	108
1065PZ5ARCL	DH005002		88	88
610GW103CL	DH005003		101	102

Surrogate Recovery Control Limits (%)

S1:	Octacosane - SS	65-135
S2:	Triacontane - SS	65-135

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	03/13/2006
		Date Analyzed:	04/06/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Diesel Range Organics / Motor Oil Range Organics

LCS Sample Lab Control Sample
Lab Code: DWB10313LCS **Units:** ug/L (ppb)
Test Notes:

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike % Rec LCS	CAS Acceptance Limits	Result Notes
Motor Oil (C24-C36)	SW3510	SW8015	300	2500	ND	0	65-135	*
TPH-Diesel	SW3510	SW8015	50	2500	2140	85	65-135	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Extracted:**	03/13/2006
Sample Matrix:	Water	**Date Analyzed:**	04/06/2006
		Time Analyzed:	21:30

Method Blank Summary

Diesel Range Organics / Motor Oil Range Organics

Extaction Method:	SW3510	**Extraction Lot:**	DWB10313
Analysis Method:	SW8015	**Level:**	

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	DWB10313LCS	G0406005	04/06/2006	22:15
LF5GW104CL	DH005005	G0406008	04/07/2006	00:31
1349MW102CL	DH005006	G0406009	04/07/2006	01:16
1065PZ5ARCL	DH005002	G0406006	04/06/2006	23:00
610GW103CL	DH005003	G0406007	04/06/2006	23:46

Standards data

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/14/2006

Initial Calibration Summary
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 03/14/2006GCG
Instrument ID: GCG

Level ID	File ID	Level ID	File ID
A	G0314002	F	G0314007
B	G0314003		
C	G0314004		
D	G0314005		
E	G0314006		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Motor Oil (C24-C36)	A	0.100	14488	B	0.500	11892	C	1.000	13738	D	2.500	13670	E	4.000	12373
	F	0.050	19278												
TPH-DIESEL (C10-C24)	A	0.100	35580	B	0.500	22170	C	1.000	24788	D	2.500	23777	E	4.000	20991
	F	0.050	46187												
Triacontane	A	0.100	18792	B	0.150	16553	C	0.250	19484	D	0.300	19539	E	0.350	17454
	F	0.015	19889												
Octacosane	A	0.100	19479	B	0.150	17139	C	0.250	20140	D	0.300	20283	E	0.350	18113
	F	0.015	19973												

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/14/2006

Initial Calibration Summary
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 03/14/2006GCG
Instrument ID: GCG
Mean RSD: 26.50

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
Motor Oil (C24-C36)	TRG	Linear	r	0.998		0.995
TPH-DIESEL (C10-C24)	TRG	Linear	r	0.997		0.995
Triacontane	SUR	AverageRF	% RSD	7.2		20
Octacosane	SUR	AverageRF	% RSD	6.7		20

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/14/2006

Second Source Calibration Verification
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 03/14/2006GCG
Instrument ID: GCG
File ID: G0314008

Column: DB-5

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Motor Oil (C24-C36)	1.000	1.040	14240	13597	NA	3.9	+/- 15.0	Linear	
TPH-DIESEL (C10-C24)	1.000	0.975	28916	22685	NA	-2.5	+/- 15.0	Linear	
Triacontane	0.250	0.256	18618	19109	2.6	NA	+/- 15.0	AverageRF	
Octacosane	0.250	0.257	19188	19752	2.9	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 04/06/2006

Continuing Calibration Verification Summary
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 03/14/2006GCG
Instrument ID: GCG
File ID: G0406002

Column: DB-5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Motor Oil (C24-C36)	1.000	1.132	14240	14760	NA	13.2	+/- 15.0	Linear	
TPH-DIESEL (C10-C24)	1.000	1.149	28916	26388	NA	14.9	+/- 15.0	Linear	
Triacontane	0.250	0.287	18618	21359	14.7	NA	+/- 15.0	AverageRF	
Octacosane	0.250	0.284	19188	21783	13.5	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 04/07/2006

Continuing Calibration Verification Summary
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 03/14/2006GCG
Instrument ID: GCG
File ID: G0406020

Column: DB-5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Motor Oil (C24-C36)	2.500	2.692	14240	13797	NA	7.7	+/- 15.0	Linear	
TPH-DIESEL (C10-C24)	2.500	2.973	28916	26120	NA	18.9	+/- 15.0	Linear	*
Triacontane	0.300	0.343	18618	21318	14.5	NA	+/- 15.0	AverageRF	
Octacosane	0.300	0.350	19188	22391	16.7	NA	+/- 15.0	AverageRF	*

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005

Analysis Run Log
Diesel Range Organics / Motor Oil Range Organics

Analysis Method: SW8015

Instrument ID: GCG
Column: DB-5

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
G0314002	DSTD1	DSTD1	03/14/2006	17:33		03/14/2006	18:02
G0314003	DSTD2	DSTD2	03/14/2006	18:18		03/14/2006	18:47
G0314004	DSTD3	DSTD3	03/14/2006	19:03		03/14/2006	19:32
G0314005	DSTD4	DSTD4	03/14/2006	19:48		03/14/2006	20:17
G0314006	DSTD5	DSTD5	03/14/2006	20:32		03/14/2006	21:01
G0314007	DSTD6	DSTD6	03/14/2006	21:18		03/14/2006	21:47
G0314008	QCALT	QCALT	03/14/2006	22:02		03/14/2006	22:31
G0406002	DSTD3	DSTD3	04/06/2006	20:00		04/06/2006	20:29
G0406004	Method Blank	DWB10313	04/06/2006	21:30		04/06/2006	21:59
G0406005	Laboratory Control Sample	DWB10313LCS	04/06/2006	22:15		04/06/2006	22:44
G0406006	1065PZ5ARCL	DH005002	04/06/2006	23:00		04/06/2006	23:29
G0406007	610GW103CL	DH005003	04/06/2006	23:46		04/07/2006	00:15
G0406008	LF5GW104CL	DH005005	04/07/2006	00:31		04/07/2006	01:00
G0406009	1349MW102CL	DH005006	04/07/2006	01:16		04/07/2006	01:45
G0406020	DSTD4	DSTD4	04/07/2006	09:32		04/07/2006	10:01

Form 8 - Organic

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Extracted: 03/13/2006

Extraction Prep Log

Diesel Range Organics / Motor Oil Range Organics

Extaction Method: SW3510
Analysis Method: SW8015

Extraction Lot: DWB10313
Level:

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	DWB10313	NA	NA	1.000 L	1	NA	
Laboratory Control Sample	DWB10313LCS	NA	NA	1.000 L	1	NA	
LF5GW104CL	DH005005	03/07/2006	03/08/2006	1.000 L	1	NA	
1349MW102CL	DH005006	03/07/2006	03/08/2006	1.040 L	1	NA	
1065PZ5ARCL	DH005002	03/07/2006	03/08/2006	1.020 L	1	NA	
610GW103CL	DH005003	03/07/2006	03/08/2006	1.000 L	1	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO **Service Request:** DH005
Project: PRESIDIO

Holding Time Summary
Diesel Range Organics / Motor Oil Range Organics

Analysis Method: SW8015

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
1065PZ5ARCL	03/07/2006	03/08/2006	03/13/2006	7	6	N/A	N/A	N/A	04/06/2006	40	24	
610GW103CL	03/07/2006	03/08/2006	03/13/2006	7	6	N/A	N/A	N/A	04/06/2006	40	24	
LF5GW104CL	03/07/2006	03/08/2006	03/13/2006	7	6	N/A	N/A	N/A	04/07/2006	40	25	
1349MW102CL	03/07/2006	03/08/2006	03/13/2006	7	6	N/A	N/A	N/A	04/07/2006	40	25	

Comments:

SUPPORT DOCUMENTATION

Method Detection Limit Study

Columbia Analytical Services
Redding, CA

Analysis Method:	SW8015	**Analyst:**	A. Bell
Extraction Method:	SW3510	**Instrument:**	GCG
Matrix:	WATER	**Description:**	
MDL Effective Date:	10/8/2005	**Department:**	GS

#	Compound	CAS No.	Date	MDL		MG/L	1	2	3	4	5	6	7	8		Mean	Std Dev	MDL Check - True Value	%Rec
1	TPH-Diesel	PHCD	10/5/2005	0.02		0.1	0.063	0.051	0.061	0.068	0.071	0.065	0.068	0.071	###	0.065	0.01	0.02	#DIV/0!
2	TPH-Motor Oil	MOIL	10/5/2005	0.02		0.1	0.120	0.109	0.118	0.118	0.130	0.125	0.132	0.131		0.123	0.01	0.07	#DIV/0!
3	***	***		0.00	*											0.000	0.00		#DIV/0!
4	***	***		0.00	*											0.000	0.00		#DIV/0!
5	***	***		0.00	*											0.000	0.00		#DIV/0!
6	***	***		0.00	*											0.000	0.00		#DIV/0!
7	***	***		0.00	*											0.000	0.00		#DIV/0!

Separatory Funnel Extraction, 3510C

Total Fuel Hydrocarbon Water

Date	3/13/06
Time	13:30

26870

Date sampled	

Batches: DH006, DH002, DH005, D6995, D0600023

Client(s): Tec/Hickam, Presidio, AFFC, Transwest

Analytical Method(s)

- [x] TFHD, 8015B
- [ ] DRO by 3520C
- [ ] DRAX, AK102.0
- [x] Other DMO

Solvent Lots

DCM: 45348 3/6/06 3/10/06

Spikes

Surrogate: 13-EXS-89C-2 Amt. 1.0 ml Exp: 4-24-06

Spike: 13-EXS-83B Amt. 1.0 ml Exp: 5/1/06

Spiked by: CMC Witness: SC

Test Code(s): DMO/8015

Sample ID	Surrogate X	Spike I X	Amt (1L) By: CMC 3/13/06	Final KD H2O bath temp 78 °C Date & Volume By: MMD 3/14/06	Relinq. Date By: MMD 3/14/06
DWB1	X		1.0	1.0 ml	
~~DWB2~~					CMC 3/13/06
DWL1 DSC	X	X	1.0		
~~DWL2 DSC~~					CMC 3/13/06
L2 DMO	X	X	1.0		
~~L-1 DMO~~					CMC 3/13/06
DH006-1P	X		0.98		
-2P	X		1.02		
-3P	X		1.01		
DH002-1L	X		1.03		
DSL-1msA	X	X	1.03		
DSL-1msdB	X	X	1.02		
-2L	X		1.02		
DH005-2K	X		1.02		
-3K	X		1.0		
-5K	X		1.0		
-6L	X		1.04		
D6995-1A	X		0.76		
-2A	X		0.88		
-3A	X		0.89		
-4A	X		0.89		
DMO -4msAA	X	X	0.75		
DMO -4msdAB	X	X	0.90		
D0600023-1.01	X		0.97		
-2.01	X		0.95		
-3.01	X		0.97		

Comments:

DH005 = 8015 & MOIL

D6995 & D0600023 = DMO

DMO spike:
13-EXS-78C
Exp: 4/23/06 use: 0.25 ml

- [x] Completed ms/msd
- [ ] Sample limited, no ms/msd, duplicate LCS

062

Peer Review By:

Organic Extractions Dept.
CAS-Redding

Columbia Analytical Services, Inc.

HP6890 Injection Log

Instrument ID:
GCG

Date(s)
3/14/06

Analytical Method(s)	
☒ 8015B(MOD)	☐ 8015AZ
☐ OA2	☐ TX1005
☐ AK102/103	☐ Other_____

I-Cal Date(s)	3/14/06

Standard(s)	
A	
B	
C	

Analyst(s)	CYC

Target Method(s)	
A	GPSL061308
B	GPM0060314 LOW
C	

Target Method	Data Directory	Filename	Sample ID	Matrix	DL Factor	STD	Run OK? Y/N	Rept? Y/N	Comments
A	FG060313	G031300 8	DG9SS1103						
		9	4						
		10	DWB10316						
		11	LCS						
		12	LCSD						
		G031301 3	DG04S001						
		14	WASH						
		15	↓						
		16	DSTD4						
		17	STORAGE						
		18	↓						
B	FG060314	G031400 1	RT Marker						
		2	DSTD 1						Diesel/motor Oil
		3	2						↓
		4	3						
		5	4						
		6	5						
		7	6						
		8	QC ALT						
B	FG060315	G031500 1	RT Marker						
		2	DSTD 3				No.	No.	22-GC-22D
		3	↓				↓	↓	↓
		4							
		5	WASH						
		6	↓						
		7							
		8	DSTD 3					No.	22-GC-32C

CYC

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(DW)

Columbia Analytical Services, Inc.

HP6890 Injection Log

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Instrument ID:
GCG

Date(s)
3/3/06

Analytical Method(s)	
[X] 8015B(MOD)	[ ] 8015AZ
[ ] OA2	[ ] TX1005
[ ] AK102/103	[ ] Other_____

I-Cal Date(s)	3/28/06

Standard(s)	
A	22-GC-39A
B	22-GC-39B
C	

Analyst(s)	C. Cushman

Target Method(s)	
A	GDSL060308
B	GFuel_060328
C	

Target Method	Data Directory	Filename	Sample ID	Matrix	DL Factor	STD	Run OK? Y/N	Rept? Y/N	Comments
B	FG060331	G0331 028	WASH						
		029	DSTD3						
		030	DSTD3						
A	FG060404	G0404 001	RT marker						
		2	DSTD 3			A		No.	
		3	↓			↓		No.	↑ sum.
		4	DH041002		50X				Sum. out
		5	DH027001		10X			No.	Re-run @ 1X - Sum. ok.
		6	WASH						
		7	↓						
		8	DSTD4			B		No.	
		9	↓			↓			
		10	WASH						
		11	↓						
	FG060406	G0406 001	RT marker						
		2	DSTD3						22-GC-39-B c
		3	~~DWB10313~~ cal					No.	↓
		4	DWB10313	W	1X				
		5	↓ LCS						
		6	DH005002 ~~LCSD~~						
		7	3 cal						
		8	DH005005						
		9	6						↑ sum.
		10	DWB10314						
		11	LCS						
		12	DH009002						
		13	3						

Columbia Analytical Services, Inc.

HP6890 Injection Log

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Instrument ID:
GCG

Date(s)
4/6/04

Analytical Method(s)	
[X] 8015B(MOD)	[ ] 8015AZ
[ ] OA2	[ ] TX1005
[ ] AK102/103	[ ] Other_____

I-Cal Date(s)	3/14/06

Standard(s)	
A	
B	
C	

Analyst(s)	CLC

Target Method(s)	
A	GBMD060314Low
B	GBSL060308
C	

Target Method	Data Directory	Filename	Sample ID	Matrix	DL Factor	STD	Run OK? Y/N	Rept? Y/N	Comments
A	FG060406	G0406014	DH009004	W	1X		—	—	
		15	instrument						
		16	error						
		17	WASH						
		18	↓						
		19	DSTD4						22-GC-39-D
		20	↓				—	—	↓ ↑ TPH; ↑ oct.
		21	WASH						
		22	↓						
		23	DSTD4						
		24	WASH						
		25	↓						
		26	DSTD4						
		27	↓						
		28	WASH						
		29	↓						
		30	↓						
		31	DSTD4						
		32	WASH						
		33	↓						
		34	DSTD4						
		35	WASH						
		36	↓						
B		37	DSTD3				—	—	↑ surr.
		38	~~DH014004~~				—	No.	
		39	DH014004				—	—	
		40					—	—	

instrument error

Instrument error cyc

cyc

B2

TPH-Gasoline

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Collected:**	03/07/2006
Sample Matrix:	Water	**Date Received:**	03/08/2006

Gasoline Range Organics

Sample Name:	1047MW101CL		
Lab Code:	DH005001	**Units:**	ug/L (ppb)
Extraction	SW5030	**Basis:**	NA
Analysis Method:	SW8015		

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
TPH-Gasoline (C7C12)	ND	U	50	1	03/17/2006	03/17/2006	NWB10317	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Chlorobenzene	90	65-135	03/17/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Collected:**	03/07/2006
Sample Matrix:	Water	**Date Received:**	03/08/2006

Gasoline Range Organics

Sample Name:	1065PZ5ARCL		
Lab Code:	DH005002	**Units:**	ug/L (ppb)
Extraction	SW5030	**Basis:**	NA
Analysis Method:	SW8015		

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
TPH-Gasoline (C7C12)	ND	U	50	1	03/17/2006	03/17/2006	NWB10317	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Chlorobenzene	88	65-135	03/17/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: 03/07/2006
Date Received: 03/08/2006

Gasoline Range Organics

Sample Name: 610GW103CL
Lab Code: DH005003
Extraction SW5030
Analysis Method: SW8015

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
TPH-Gasoline (C7C12)	ND	U	50	1	03/17/2006	03/17/2006	NWB10317	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Chlorobenzene	90	65-135	03/17/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Collected:**	03/07/2006
Sample Matrix:	Water	**Date Received:**	03/08/2006

Gasoline Range Organics

Sample Name:	LF5GW104CL		
Lab Code:	DH005005	**Units:**	ug/L (ppb)
Extraction	SW5030	**Basis:**	NA
Analysis Method:	SW8015		

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
TPH-Gasoline (C7C12)	ND	U	50	1	03/17/2006	03/17/2006	NWB10317	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Chlorobenzene	91	65-135	03/17/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Collected:**	03/07/2006
Sample Matrix:	Water	**Date Received:**	03/08/2006

Gasoline Range Organics

Sample Name:	1349MW102CL		
Lab Code:	DH005006	**Units:**	ug/L (ppb)
Extraction	SW5030	**Basis:**	NA
Analysis Method:	SW8015		

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
TPH-Gasoline (C7C12)	ND	U	50	1	03/17/2006	03/17/2006	NWB10317	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Chlorobenzene	88	65-135	03/17/2006	

Comments: _____

QC Summary

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: NA
Date Received: NA

Gasoline Range Organics

Sample Name: Method Blank
Lab Code: NWB10317
Extraction SW5030
Analysis Method: SW8015

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
TPH-Gasoline (C7C12)	ND	U	50	1	03/17/2006	03/17/2006	NWB10317	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Chlorobenzene	91	65-135	03/17/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005

Surrogate Recovery Summary
Gasoline Range Organics

Prep Method: SW5030
Analysis Method: SW8015

Units: Percent

Sample Name	Lab Code	Q	S1
Laboratory Control Sample	NWB10317LCS		93
Laboratory Control Sample Duplicate	NWB10317LCSD		97
Method Blank	NWB10317		91
1047MW101CL	DH005001		90
1065PZ5ARCL	DH005002		88
610GW103CL	DH005003		90
LF5GW104CL	DH005005		91
1349MW102CL	DH005006		88

Surrogate Recovery Control Limits (%)

S1: Chlorobenzene 65-135

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	03/17/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Gasoline Range Organics

LCS Sample	Lab Control Sample	**DMS Sample**	Lab Control Sample Duplicate
Lab Code:	NWB10317LCS	**Units:**	ug/L (ppb)
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
TPH-Gasoline (C7C12)	SW5030	SW8015	50	2000	2080	2050	104	102	75-125	1	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Extracted: 03/17/2006
Date Analyzed: 03/17/2006
Time Analyzed: 12:48

Method Blank Summary
Gasoline Range Organics

Extaction Method: SW5030
Analysis Method: SW8015

Extraction Lot: NWB10317
Level:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	NWB10317LCS	NF031708P	03/17/2006	11:58
Laboratory Control Sample Duplicate	NWB10317LCSD	NF031709P	03/17/2006	12:23
1047MW101CL	DH005001	NF031711	03/17/2006	13:13
1065PZ5ARCL	DH005002	NF031712	03/17/2006	13:38
610GW103CL	DH005003	NF031713	03/17/2006	14:03
LF5GW104CL	DH005005	NF031714	03/17/2006	14:28
1349MW102CL	DH005006	NF031715	03/17/2006	14:53

Standards Summary

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/17/2006

Initial Calibration Summary
Gasoline Range Organics

ICAL ID: 03/17/2006GCN
Instrument ID: GCN

Column: RTX-1, FID

Level ID	File ID
A	NF031702
B	NF031703
C	NF031704
D	NF031705
E	NF031706

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
TPH-Gasoline (C7C12)	A	50.00	0.405	B	500.0	0.382	C	2000	0.415	D	3000	0.423	E	5000	0.420
Chlorobenzene-ss	A	2.500	0.173	B	25.00	0.138	C	100.0	0.146	D	150.0	0.146	E	250.0	0.151

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/17/2006

Initial Calibration Summary
Gasoline Range Organics

ICAL ID: 03/17/2006GCN
Instrument ID: GCN
Mean RSD: 4.00

Column: RTX-1, FID

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
TPH-Gasoline (C7C12)	TRG	AverageRF	% RSD	4.0		20
Chlorobenzene-ss	SUR	AverageRF	% RSD	8.8		20

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/17/2006

Second Source Calibration Verification
Gasoline Range Organics

ICAL ID: **03/17/2006GCN**
Instrument ID: **GCN**
File ID: **NF031707**

Column: RTX-1, FID

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
TPH-Gasoline (C7C12)	2000	1962	0.409	0.401	-1.9	NA	+/- 15.0	AverageRF	
Chlorobenzene-ss	N/A	N/A	0.151	0.147	0.0	NA	N/A	AverageRF	

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/17/2006

Continuing Calibration Verification Summary
Gasoline Range Organics

ICAL ID: 03/17/2006GCN
Instrument ID: GCN
File ID: NF031716

Column: RTX-1, FID

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
TPH-Gasoline (C7C12)	2000	2123	0.409	0.434	6.1	NA	+/- 15.0	AverageRF	
Chlorobenzene-ss	100.0	95.56	0.151	0.144	-4.4	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO **Service Request:** DH005
Project: PRESIDIO

Analysis Run Log
Gasoline Range Organics

Analysis Method: SW8015 **Instrument ID:** GCN
Column: RTX-1, FID

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
NF031702	GSTD1	GSTD1	03/17/2006	09:22		03/17/2006	09:42
NF031703	GSTD2	GSTD2	03/17/2006	09:47		03/17/2006	10:07
NF031704	GSTD3	GSTD3	03/17/2006	10:12		03/17/2006	10:32
NF031705	GSTD4	GSTD4	03/17/2006	10:37		03/17/2006	10:57
NF031706	GSTD5	GSTD5	03/17/2006	11:02		03/17/2006	11:22
NF031707	QCALTSTD	QCALTSTD	03/17/2006	11:27		03/17/2006	11:47
NF031708	Laboratory Control Sample	NWB10317LCS	03/17/2006	11:58		03/17/2006	12:18
NF031709	Laboratory Control Sample Duplicate	NWB10317LCSD	03/17/2006	12:23		03/17/2006	12:43
NF031710	Method Blank	NWB10317	03/17/2006	12:48		03/17/2006	13:08
NF031711	1047MW101CL	DH005001	03/17/2006	13:13		03/17/2006	13:33
NF031712	1065PZ5ARCL	DH005002	03/17/2006	13:38		03/17/2006	13:58
NF031713	610GW103CL	DH005003	03/17/2006	14:03		03/17/2006	14:23
NF031714	LF5GW104CL	DH005005	03/17/2006	14:28		03/17/2006	14:48
NF031715	1349MW102CL	DH005006	03/17/2006	14:53		03/17/2006	15:13
NF031716	GSTD3	GSTD3	03/17/2006	15:18		03/17/2006	15:38

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Extracted: 03/17/2006

Extraction Prep Log
Gasoline Range Organics

Extaction Method: SW5030
Analysis Method: SW8015

Extraction Lot: NWB10317
Level:

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	NWB10317	NA	NA	5.000 ML	5.000	NA	
Laboratory Control Sample	NWB10317LCS	NA	NA	5.000 ML	5.000	NA	
Laboratory Control Sample Duplicate	NWB10317LCSD	NA	NA	5.000 ML	5.000	NA	
1047MW101CL	DH005001	03/07/2006	03/08/2006	5.000 ML	5.000	NA	
1065PZ5ARCL	DH005002	03/07/2006	03/08/2006	5.000 ML	5.000	NA	
610GW103CL	DH005003	03/07/2006	03/08/2006	5.000 ML	5.000	NA	
LF5GW104CL	DH005005	03/07/2006	03/08/2006	5.000 ML	5.000	NA	
1349MW102CL	DH005006	03/07/2006	03/08/2006	5.000 ML	5.000	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO **Service Request:** DH005
Project: PRESIDIO

Holding Time Summary
Gasoline Range Organics

Analysis Method: SW8015

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
1047MW101CL	03/07/2006	03/08/2006	N/A	N/A	N/A	N/A	N/A	N/A	03/17/2006	14	10	
1065PZ5ARCL	03/07/2006	03/08/2006	N/A	N/A	N/A	N/A	N/A	N/A	03/17/2006	14	10	
610GW103CL	03/07/2006	03/08/2006	N/A	N/A	N/A	N/A	N/A	N/A	03/17/2006	14	10	
LF5GW104CL	03/07/2006	03/08/2006	N/A	N/A	N/A	N/A	N/A	N/A	03/17/2006	14	10	
1349MW102CL	03/07/2006	03/08/2006	N/A	N/A	N/A	N/A	N/A	N/A	03/17/2006	14	10	

Comments:

SUPPORT DOCUMENTATION

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: SW8015 Matrix: Water

Instrument ID: GCN

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
Petroleum Hydrocarbons C7-C12	05/11/2005	50.00	49.90	49.42	57.96	45.41	60.08	61.85	45.56	62.84	7.3	22

Columbia Analytical Services - Redding

Date
03/17/06

RT Marker Std Prep #3 luft 65C
Internal Standard Std Prep #3 luft —
Surrogate Std Prep #3 luft 57C

Std A Prep #3 luft 65D
Std B Prep #3 luft 65E
Std C Prep #3 luft —
Std D Prep #3 luft —

Analyst: B
ICAL Date: 03/17/06
Method: SW8015

SM Dauf 3/21/06

Filename	Laboratory ID	Vial	Matrix	pH	Weight (Grams)	%M	DL Factor	STD	Gas Run OK?	Gas Rept?	A1 Run OK?	A2 Run OK?	Aromatic Rept?	Comments
NF031701	RTMARKER	—	—	—	—	—	—		✓	✓				
2	GSTD1	—	—	—	—	—	—	A	✓	✓				
3	GSTD2	—	—	—	—	—	—	A	✓	✓				
4	GSTD3	—	—	—	—	—	—	A	✓	✓				
5	GSTD4	—	—	—	—	—	—	A	✓	✓				
6	GSTD5	—	—	—	—	—	—	A	✓	✓				
7	QCALTSTD	—	—	—	—	—	—	B	✓	✓				
8	NWB10317LCS	—	W	—	—	—	1X	B	✓	✓				
9	NWB10317LCSD	—	↓	—	—	—	↓	B	✓	✓				
10	NWB10317BLK	—	↓	—	—	—	↓		✓	✓				
11	DH005001	D	↓	<2	—	—	↓		✓	✓				Presidio
12	2	C	↓	↓	—	—	↓		✓	✓				
13	3	C	↓	↓	—	—	↓		✓	✓				
14	5	D	↓	↓	—	—	↓		✓	✓				
15	6	C	↓	↓	—	—	↓		✓	✓				
16	GSTD3	—	—	—	—	—	—	A	✓	✓				
17	DH009002	D	W	<2	—	—	1X		✓	✓				
18	3	A	↓	↓	—	—	↓		✓	✓				
19	4	D	↓	↓	—	—	↓		✓	✓				
20	D0600027-001	04	↓	↓	—	—	↓		✓	✓				
21	-002	01	↓	↓	—	—	↓		✓	✓				
22	GSTD4	—	—	—	—	—	—	A	✓	✓				
23	L0600448-001	01	W	<2	—	—	1X		✓	✓				C6C10STD
24	-002	↓	↓	↓	—	—	↓		✓	✓				
25	-003	↓	↓	↓	—	—	↓		✓	✓				
26	-004	↓	↓	↓	—	—	↓		✓	✓				
27	-005	↓	↓	↓	—	—	↓		✓	✓				
28	-006	↓	↓	↓	—	—	↓		✓	✓				

GC TPH STODDARD SOLVENT

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: 03/07/2006
Date Received: 03/08/2006

Diesel Range Organics / Motor Oil Range Organics

Sample Name: 1047MW101CL
Lab Code: DH005001
Extraction SW3510
Analysis Method: SW8015

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Stoddard Solvents	ND	U	100	1	03/14/2006	04/07/2006	DWB10314	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	86	65-135	04/07/2006	
Triacontane - SS	85	65-135	04/07/2006	

Comments: _____

QC Summary

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: NA
Date Received: NA

Diesel Range Organics / Motor Oil Range Organics

Sample Name: Method Blank
Lab Code: DWB10314
Extraction SW3510
Analysis Method: SW8015

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Stoddard Solvents	ND	U	100	1	03/14/2006	04/07/2006	DWB10314	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	90	65-135	04/07/2006	
Triacontane - SS	90	65-135	04/07/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005

Surrogate Recovery Summary
Diesel Range Organics / Motor Oil Range Organics

Prep Method: SW3510
Analysis Method: SW8015

Units: Percent

Sample Name	Lab Code	Q	S1	S2
Method Blank	DWB10314		90	90
Laboratory Control Sample	DWB10314LCS		97	101
Laboratory Control Sample Duplicate	DWB10314LCSD		105	105
1047MW101CL	DH005001		86	85

Surrogate Recovery Control Limits (%)

S1:	Octacosane - SS	65-135
S2:	Triacontane - SS	65-135

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	03/14/2006
		Date Analyzed:	04/07/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Diesel Range Organics / Motor Oil Range Organics

LCS Sample	Lab Control Sample	**DMS Sample**	Lab Control Sample Duplicate
Lab Code:	DWB10314LCS	**Units:**	ug/L (ppb)
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
TPH-Stoddard Solvents	SW3510	SW8015	100	2500	2190	2230	88	89	65-135	2	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Extracted:**	03/14/2006
Sample Matrix:	Water	**Date Analyzed:**	04/07/2006
		Time Analyzed:	11:57

Method Blank Summary
Diesel Range Organics / Motor Oil Range Organics

Extaction Method:	SW3510	**Extraction Lot:**	DWB10314
Analysis Method:	SW8015	**Level:**	

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	DWB10314LCS	F0406024	04/07/2006	13:02
Laboratory Control Sample Duplicate	DWB10314LCSD	F0406025	04/07/2006	13:47
1047MW101CL	DH005001	F0406026	04/07/2006	14:32

Standards data

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/29/2006

Initial Calibration Summary
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 03/29/2006GCF
Instrument ID: GCF

Level ID	File ID
A	F0327033
B	F0327034
C	F0327035
D	F0327036
E	F0327037

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
TPH-Stoddard Solvents	A	0.100	18234	B	0.500	6558	C	1.000	5413	D	2.500	4036	E	4.000	4212
Octacosane	A	0.100	3860	B	0.150	3557	C	0.250	3561	D	0.300	3297	E	0.350	3524
Triacontane	A	0.100	3724	B	0.150	3457	C	0.250	3460	D	0.300	3139	E	0.350	3431

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/29/2006

Initial Calibration Summary
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 03/29/2006GCF
Instrument ID: GCF
Mean RSD: 77.80

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
TPH-Stoddard Solvents	TRG	Linear	r	0.998		0.995
Octacosane	SUR	AverageRF	% RSD	5.6		20
Triacontane	SUR	AverageRF	% RSD	6.0		20

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/29/2006

Second Source Calibration Verification
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: **03/29/2006GCF**
Instrument ID: **GCF**
File ID: **F0327038**

Column: RTX-5

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
TPH-Stoddard Solvents	1.000	1.072	76903	54145	NA	7.2	+/- 15.0	Linear	
Octacosane	0.250	0.256	35598	36466	2.4	NA	+/- 20.0	AverageRF	
Triacontane	0.250	0.257	34421	35422	2.9	NA	+/- 20.0	AverageRF	

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 04/07/2006

Continuing Calibration Verification Summary
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 03/29/2006GCF
Instrument ID: GCF
File ID: F0406021

Column: RTX-5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
TPH-Stoddard Solvents	1.000	1.148	76903	57015	NA	14.8	+/- 15.0	Linear	
Octacosane	0.250	0.273	35598	38849	9.1	NA	+/- 20.0	AverageRF	
Triacontane	0.250	0.274	34421	37797	9.8	NA	+/- 20.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 04/07/2006

Continuing Calibration Verification Summary
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 03/29/2006GCF
Instrument ID: GCF
File ID: F0406029

Column: RTX-5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
TPH-Stoddard Solvents	2.500	2.716	76903	46578	NA	8.6	+/- 15.0	Linear	
Octacosane	0.300	0.325	35598	38574	8.4	NA	+/- 20.0	AverageRF	
Triacontane	0.300	0.326	34421	37440	8.8	NA	+/- 20.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO **Service Request:** DH005
Project: PRESIDIO

Analysis Run Log
Diesel Range Organics / Motor Oil Range Organics

Analysis Method: SW8015 **Instrument ID:** GCF
Column: RTX-5

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
F0327033	DSTD1	DSTD1	03/28/2006	23:32		03/29/2006	00:02
F0327034	DSTD2	DSTD2	03/29/2006	00:17		03/29/2006	00:47
F0327035	DSTD3	DSTD3	03/29/2006	01:02		03/29/2006	01:32
F0327036	DSTD4	DSTD4	03/29/2006	01:48		03/29/2006	02:18
F0327037	DSTD5	DSTD5	03/29/2006	02:33		03/29/2006	03:03
F0327038	QCALT	QCALT	03/29/2006	03:18		03/29/2006	03:48
F0406021	DSTD3	DSTD3	04/07/2006	10:17		04/07/2006	10:47
F0406023	Method Blank	DWB10314	04/07/2006	11:57		04/07/2006	12:27
F0406024	Laboratory Control Sample	DWB10314LCS	04/07/2006	13:02		04/07/2006	13:32
F0406025	Laboratory Control Sample	DWB10314LCSD	04/07/2006	13:47		04/07/2006	14:17
F0406026	1047MW101CL	DH005001	04/07/2006	14:32		04/07/2006	15:02
F0406029	DSTD4	DSTD4	04/07/2006	16:54		04/07/2006	17:24

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Extracted: 03/14/2006

Extraction Prep Log
Diesel Range Organics / Motor Oil Range Organics

Extaction Method: SW3510
Analysis Method: SW8015

Extraction Lot: DWB10314
Level:

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	DWB10314	NA	NA	1.000 L	1	NA	
Laboratory Control Sample	DWB10314LCS	NA	NA	1.000 L	1	NA	
Laboratory Control Sample Duplicate	DWB10314LCSD	NA	NA	1.000 L	1	NA	
1047MW101CL	DH005001	03/07/2006	03/08/2006	1.000 L	1	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO **Service Request:** DH005
Project: PRESIDIO

Holding Time Summary
Diesel Range Organics / Motor Oil Range Organics

Analysis Method: SW8015

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
1047MW101CL	03/07/2006	03/08/2006	03/14/2006	7	7	N/A	N/A	N/A	04/07/2006	40	24	

Comments:

SUPPORT DOCUMENTATION

Separatory Funnel Extraction, 3510C

Total Fuel Hydrocarbon Water

Date	3/14/06
Time	16:30

2989

Date sampled	

Batches: DG996, D0600023, DH005 D0600024

Client(s): AFFC Confirmation, Transwest Geochem, Presidio

Analytical Method(s)

- [x] TFHD, 8015B
- [ ] DRO by 3520C
- [ ] DRAX, AK102.0
- [x] Other DMO & Stoddard

Solvent Lots

DCM: 4534 & 3/6/06 3/14/06

Spikes

Surrogate: 13-EXS-89C-1
Amt. 1.0 ml Exp: 4/24/06
Spike: 13-EXS-78-C
Amt. 0.25 ml Exp: 4/23/06
Spiked by MK Witness CLE

Comments:
8015 spike: 13-EXS-83B
use: 1.0 ml exp: 5/1/06
Stoddard spike: 13-EXS-90C
use 1.0 ml Exp: 6/13/06

Test Code(s)
8015/DMO/MOD

Sample ID	Spikes: Surrogate	Spikes: Spike 1	Amt (1L)	Final KD: H2O bath temp 79 °C; Date & Volume	Relinq. Date
	X	X	By: CLE	By: CLE 3/16/06	By: CLE
DWB1	X		1L	1.0 ml	3/16/06
~~DWB2~~					MK 3/14/06
DWL1 DMO	X	X	1L		
DWL2 Stoddard	X	X			
L3 Stoddard	X	X			
L4 8015	X	X			
L5 8015	X	X			
DG996-1A	X		840		
-2A	X		840		
-3A	X		870		
-4A	X		780		
DMO -4MSA	X	X	780		
DMO -4MSDA	X	X	780		
-5A	X		840		
-6A	X		970		
DH005-1K	X		1.0		
D060023-4.01	X		0.96		
-5.01	X		0.93		
-6.01	X		0.99		
-7.01	X		0.99		
-8.01	X		0.99		
-9.01	X		0.99		
D060024-1.01	X		950		
-2.01	X		970		
			~~CMC 3/14/06~~		

[X] Completed ms/msd

[ ] Sample limited, no ms/msd, duplicate LCS

064

Peer Review By:

Organic Extractions Dept.
CAS-Redding

Columbia Analytical Services, Inc.

HP6890 Injection Log

Instrument ID:
GCF

Date(s)
3/27/06

Analytical Method(s)			
X	8015B(MOD)		8015AZ
	OA2		TX1005
	AK102/103		Other_____

I-Cal Date(s)	3/6/06

Standard(s)	
A	22-GC-39 A
B	22-GC-39 B
C	

Analyst(s)	CYC

Target Method(s)	
A	FTPH_060306
B	FSTOD_060327
C	FDSL060306

Target Method	Data Directory	Filename	Sample ID	Matrix	DL Factor	STD	Run OK? Y/N	Rept? Y/N	Comments
A	FG060327	F0327019	DG97010						
C		20	CYC ~~WASH~~ DG60059-004	S	1X		/		Surr. ↓
		21	MSD	S	1X		/		↓
		22	DSB10323	↓	↓		/		
		23	LCS	↓	↓		/		
A		24	DWB10307 LCS				/	/	
		25	LCSD				/	/	
		26	WASH						
		27	↓						
		28	DSTD 3			A			
		29	↓			↓			
		30	WASH						
		31	↓						
		32	↓						
CYC 3/28/06 ~~A~~ B		33	DSTD 1						Standard Solu.
		34	2						↓
		35	3						
		36	4						
		37	5						
		38	QC ALT						
		39	↓						
~~C~~	~~FG060329~~	~~F0329001~~	~~RT marker~~						
		2	DSTD 3			A			
		3	DSB20323	S	1X				VOID
		4	LCS	↓	↓				
		5	DH0164001						
		6	DH027001	↓	↓				

CYC 3/29/06

Columbia Analytical Services, Inc.

HP6890 Injection Log

221

Instrument ID:
GCF

Date(s)
4/6/06

Analytical Method(s)	
8015B(MOD)	8015AZ
OA2	TX1005
AK102/103	Other_____

I-Cal Date(s)	3/6/06

Standard(s)	
A	22-GC-39B
B	
C	

Analyst(s)	CYL

Target Method(s)	
A	FTPH060306
B	FSTD060327
C	

Target Method	Data Directory	Filename	Sample ID	Matrix	DL Factor	STD	Run OK? Y/N	Rept? Y/N	Comments
A	FGC4406	FA406013	D060046-003	W	1X			No.	Surr. - Re-run
		14							
		15	WASH						
		16							
		17	DSTD4			A			
		18	~~WASH~~ GC						
		19	WASH						
		20							
B		21	DSTD3						22-GC-39-H
		22						No.	
		23	DWB10314	W	1X				
		24	LCS						
		25	LCSD						
		26	DH005001						
		27	WASH						
		28							
		29	DSTD4						22-GC-39-I
		30						No.	
		31	WASH						
		32							
		33	Surr 79B check						
		34	Surr. 97B-1						
		35	Surr. 97B-2						
		36	WASH						
		37							
		38							
		39							

GC PURGEABLE AROMATICS

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: 03/07/2006
Date Received: 03/08/2006

Halogenated and Aromatic Volatiles

Sample Name: 1065PZ5ARCL
Lab Code: DH005002
Extraction SW5030
Analysis Method: SW8021

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
tert-Butyl Methyl Ether	ND	U	2.5	1	03/21/2006	03/21/2006	NWB10321	
Benzene	ND	U	0.50	1	03/21/2006	03/21/2006	NWB10321	
Toluene	ND	U	0.50	1	03/21/2006	03/21/2006	NWB10321	
Ethylbenzene	ND	U	0.50	1	03/21/2006	03/21/2006	NWB10321	
Xylene (total)	ND	U	1.0	1	03/21/2006	03/21/2006	NWB10321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorobenzene	102	80-120	03/21/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: 03/07/2006
Date Received: 03/08/2006

Halogenated and Aromatic Volatiles

Sample Name: 610GW103CL
Lab Code: DH005003
Extraction SW5030
Analysis Method: SW8021

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
tert-Butyl Methyl Ether	ND	U	2.5	1	03/21/2006	03/21/2006	NWB10321	
Benzene	ND	U	0.50	1	03/21/2006	03/21/2006	NWB10321	
Toluene	ND	U	0.50	1	03/21/2006	03/21/2006	NWB10321	
Ethylbenzene	ND	U	0.50	1	03/21/2006	03/21/2006	NWB10321	
Xylene (total)	ND	U	1.0	1	03/21/2006	03/21/2006	NWB10321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorobenzene	101	80-120	03/21/2006	

Comments: _____

QC Summary

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: NA
Date Received: NA

Halogenated and Aromatic Volatiles

Sample Name: Method Blank
Lab Code: NWB10321
Extraction SW5030
Analysis Method: SW8021

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
tert-Butyl Methyl Ether	ND	U	2.5	1	03/21/2006	03/21/2006	NWB10321	
Benzene	ND	U	0.50	1	03/21/2006	03/21/2006	NWB10321	
Toluene	ND	U	0.50	1	03/21/2006	03/21/2006	NWB10321	
Ethylbenzene	ND	U	0.50	1	03/21/2006	03/21/2006	NWB10321	
Xylene (total)	ND	U	1.0	1	03/21/2006	03/21/2006	NWB10321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorobenzene	111	80-120	03/21/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005

Surrogate Recovery Summary
Halogenated and Aromatic Volatiles

Prep Method: SW5030
Analysis Method: SW8021

Units: Percent

Sample Name	Lab Code	Q	S1
Laboratory Control Sample	NWB10321LCS		103
Laboratory Control Sample Duplicate	NWB10321LCSD		106
Method Blank	NWB10321		111
1065PZ5ARCL	DH005002		102
610GW103CL	DH005003		101

Surrogate Recovery Control Limits (%)

S1: Fluorobenzene 80-120

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	03/21/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Halogenated and Aromatic Volatiles

LCS Sample	Lab Control Sample	**DMS Sample**	Lab Control Sample Duplicate
Lab Code:	NWB10321LCS	**Units:**	ug/L (ppb)
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
tert-Butyl Methyl Ether	SW5030	SW8021	2.5	100	106	105	106	105	80-120	1	
Benzene	SW5030	SW8021	0.50	20.0	20.8	21.0	104	105	80-120	1	
Toluene	SW5030	SW8021	0.50	20.0	20.6	20.9	103	105	80-120	2	
Ethylbenzene	SW5030	SW8021	0.50	20.0	20.7	21.1	104	106	80-120	2	
Xylene (total)	SW5030	SW8021	1.0	60.0	61.5	62.6	102	104	80-120	2	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Extracted:**	03/21/2006
Sample Matrix:	Water	**Date Analyzed:**	03/21/2006
		Time Analyzed:	12:55

Method Blank Summary

Halogenated and Aromatic Volatiles

Extaction Method:	SW5030	**Extraction Lot:**	NWB10321
Analysis Method:	SW8021	**Level:**	

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	NWB10321LCS	NF032108	03/21/2006	12:05
Laboratory Control Sample Duplicate	NWB10321LCSD	NF032109	03/21/2006	12:30
1065PZ5ARCL	DH005002	NF032111	03/21/2006	13:20
610GW103CL	DH005003	NF032112	03/21/2006	13:45

Standards Summary

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/21/2006

Initial Calibration Summary
Halogenated and Aromatic Volatiles

ICAL ID: 03/21/2006GCN
Instrument ID: GCN

Column: RTX-1, PID

Level ID	File ID	Level ID	File ID
A	NF032102	F	NF032101
B	NF032103		
C	NF032104		
D	NF032105		
E	NF032106		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
tert-Butyl Methyl Ether	A	5.000	1.445	B	25.00	1.267	C	100.0	1.136	D	150.0	1.156	E	250.0	1.110
	F	2.500	1.732												
Benzene	A	1.000	3.478	B	5.000	2.946	C	20.00	2.744	D	30.00	2.815	E	50.00	2.730
	F	0.500	3.157												
Toluene	A	1.000	3.662	B	5.000	2.808	C	20.00	2.561	D	30.00	2.632	E	50.00	2.546
	F	0.500	6.984												
Ethylbenzene	A	1.000	2.864	B	5.000	2.429	C	20.00	2.270	D	30.00	2.333	E	50.00	2.277
	F	0.500	3.552												
Xylene (total)	A	3.000	3.267	B	15.00	2.686	C	60.00	2.493	D	90.00	2.592	E	150.0	2.531
	F	1.500	4.522												
Fluorobenzene-ss	A	5.000	1.844	B	25.00	2.152	C	100.0	2.062	D	155.0	2.050	E	250.0	1.981

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/21/2006

Initial Calibration Summary
Halogenated and Aromatic Volatiles

ICAL ID: 03/21/2006GCN
Instrument ID: GCN
Mean RSD: 21.48

Column: RTX-1, PID

Calibration Evaluation

Analyte Name	Compound Type	Fit Type	Eval.	Eval. Result	Q	Control Criteria
tert-Butyl Methyl Ether	TRG	Linear	r	1.000		0.995
Benzene	TRG	Linear	r	1.000		0.995
Toluene	TRG	Linear	r	1.000		0.995
Ethylbenzene	TRG	Linear	r	1.000		0.995
Xylene (total)	TRG	Linear	r	1.000		0.995
Fluorobenzene-ss	TRG	AverageRF	% RSD	5.7		20.0

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/21/2006

Second Source Calibration Verification
Halogenated and Aromatic Volatiles

ICAL ID: **03/21/2006GCN**
Instrument ID: **GCN**
File ID: **NF032107**

Column: RTX-1, PID

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
tert-Butyl Methyl Ether	100.0	101.8	1.308	1.158	NA	1.8	+/- 15.0	Linear	
Benzene	20.00	20.37	2.978	2.822	NA	1.8	+/- 15.0	Linear	
Toluene	20.00	20.21	3.532	2.634	NA	1.0	+/- 15.0	Linear	
Ethylbenzene	20.00	20.43	2.621	2.354	NA	2.2	+/- 15.0	Linear	
Xylene (total)	60.00	60.54	3.015	2.582	NA	0.9	+/- 15.0	Linear	
Fluorobenzene-ss	N/A	N/A	2.018	1.987	0.0	NA	N/A	AverageRF	

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/21/2006

Continuing Calibration Verification Summary
Halogenated and Aromatic Volatiles

ICAL ID: 03/21/2006GCN
Instrument ID: GCN
File ID: NF032114

Column: RTX-1, PID

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
tert-Butyl Methyl Ether	100.0	103.2	1.308	1.173	NA	3.2	+/- 15.0	Linear	
Benzene	20.00	20.59	2.978	2.851	NA	3.0	+/- 15.0	Linear	
Toluene	20.00	20.14	3.532	2.625	NA	0.7	+/- 15.0	Linear	
Ethylbenzene	20.00	19.74	2.621	2.277	NA	-1.3	+/- 15.0	Linear	
Xylene (total)	60.00	57.30	3.015	2.446	NA	-4.5	+/- 15.0	Linear	
Fluorobenzene-ss	100.0	103.6	2.018	2.091	3.6	NA	+/- 20.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO **Service Request:** DH005
Project: PRESIDIO

Analysis Run Log
Halogenated and Aromatic Volatiles

Analysis Method: SW8021 **Instrument ID:** GCN
Column: RTX-1, PID

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
NF032101	ASTD6	ASTD6	03/21/2006	09:10		03/21/2006	09:30
NF032102	ASTD1	ASTD1	03/21/2006	09:35		03/21/2006	09:55
NF032103	ASTD2	ASTD2	03/21/2006	10:00		03/21/2006	10:20
NF032104	ASTD3	ASTD3	03/21/2006	10:25		03/21/2006	10:45
NF032105	ASTD4	ASTD4	03/21/2006	10:50		03/21/2006	11:10
NF032106	ASTD5	ASTD5	03/21/2006	11:15		03/21/2006	11:35
NF032107	QCALTSTD	QCALTSTD	03/21/2006	11:40		03/21/2006	12:00
NF032108	Laboratory Control Sample	NWB10321LCS	03/21/2006	12:05		03/21/2006	12:25
NF032109	Laboratory Control Sample Duplicate	NWB10321LCSD	03/21/2006	12:30		03/21/2006	12:50
NF032110	Method Blank	NWB10321	03/21/2006	12:55		03/21/2006	13:15
NF032111	1065PZ5ARCL	DH005002	03/21/2006	13:20		03/21/2006	13:40
NF032112	610GW103CL	DH005003	03/21/2006	13:45		03/21/2006	14:05
NF032114	ASTD3	ASTD3	03/21/2006	14:35		03/21/2006	14:55

Form 8 - Organic

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Extracted: 03/21/2006

Extraction Prep Log
Halogenated and Aromatic Volatiles

Extaction Method: SW5030
Analysis Method: SW8021

Extraction Lot: NWB10321
Level:

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	NWB10321	NA	NA	5.000 ML	5.000	NA	
Laboratory Control Sample	NWB10321LCS	NA	NA	5.000 ML	5.000	NA	
Laboratory Control Sample Duplicate	NWB10321LCSD	NA	NA	5.000 ML	5.000	NA	
1065PZ5ARCL	DH005002	03/07/2006	03/08/2006	5.000 ML	5.000	NA	
610GW103CL	DH005003	03/07/2006	03/08/2006	5.000 ML	5.000	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005

Holding Time Summary
Halogenated and Aromatic Volatiles

Analysis Method: SW8021

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
1065PZ5ARCL	03/07/2006	03/08/2006	N/A	N/A	N/A	N/A	N/A	N/A	03/21/2006	14	14	
610GW103CL	03/07/2006	03/08/2006	N/A	N/A	N/A	N/A	N/A	N/A	03/21/2006	14	14	

Comments:

SUPPORT DOCUMENTATION

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: SW8021 Matrix: Water

Instrument ID: GCN

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
Ethylbenzene	03/22/2005	1.00	0.461	0.622	0.503	0.573	0.397	0.504	0.649	0.545	0.083	0.25
Toluene	03/22/2005	1.00	0.521	0.662	0.557	0.686	0.447	0.546	0.710	0.578	0.090	0.27
Total Xylenes	03/22/2005											0.25
tert-Butylmethylether	03/22/2005	5.00	1.84	3.44	2.84	3.39	2.90	3.06	3.64	3.06	0.55	1.7
Benzene	03/22/2005	1.00	0.572	0.679	0.575	0.626	0.447	0.564	0.653	0.546	0.072	0.22

GC Volatiles

Columbia Analytical Services - Redding

Date
03/21/06

RT Marker Std Prep #3 luft 65C
Internal Standard Std Prep #3 luft 59C
Surrogate Std Prep #3 luft 57C

Std A Prep #3 luft ~~65D~~ B 66A
Std B Prep #3 luft ~~65E~~ B 66B
Std C Prep #3 luft 65D
Std D Prep #3 luft 65E

Analyst: B
ICAL Date: 03/21/06 / 03/21/06
Method: SW8021 / SW8015

Filename	Laboratory ID	Vial	Matrix	pH	Weight (Grams)	%M	DL Factor	STD	Gas Run OK?	Gas Rept?	A1 Run OK?	A2 Run OK?	Aromatic Rept?	Comments
NP032101	ASTD6	–	–	–	–	–	–	A			✓		✓	
2	ASTD1	–	–	–	–	–	–				✓		✓	
3	ASTD2	–	–	–	–	–	–				✓		✓	
4	ASTD3	–	–	–	–	–	–				✓		✓	
5	ASTD4	–	–	–	–	–	–				✓		✓	
6	ASTD5	–	–	–	–	–	–				✓		✓	
7	QCACTSTD	–	–	–	–	–	–	B			✓		✓	
8	NWB10321CCS	–	W	–	–	–	1X	B			✓		✓	
9	NWB10321CCSD	–		–	–	–		B			✓		✓	
10	NWB10321BLK	–		–	–	–					✓		✓	
11	DH005002	A		<2	–	–					✓		✓	
12	3	A			–	–					✓		✓	
13	D0600027-002	02			–	–					✓		✓	
14	ASTD3	–	–	–	–	–	–	A						
NF032101	RT MARKER	–	–	–	–	–	–		✓	✓				
2	GSTD1	–	–	–	–	–	–	C	✓	✓				
3	GSTD2	–	–	–	–	–	–		✓	✓				
4	GSTD3	–	–	–	–	–	–		✓	✓				
5	GSTD4	–	–	–	–	–	–		✓	✓				
6	GSTD5	–	–	–	–	–	–		✓	✓				
7	QCACTSTD	–	–	–	–	–	–	D	✓	✓				
8	NSB10321CCS	–	S	–	5.0	–	1X		✓	✓				
9	NSB10321CCSD	–	S	–		–			✓	✓				
10	NMB10321CCS	–	M	–		–			✓	✓				
11	NMB10321CCSD	–	M	–		–			✓	✓				
12	NSB10321BLK	–	S	–		–			✓	✓				
13	NMB10321BLK	–	M	–		–			✓	✓				
14	DH041001	D	S	–	7.59	31			✓	✓				

HPLC POLYNUCLEAR AROMATIC HYDROCARBONS

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: 03/07/2006
Date Received: 03/08/2006

Polynuclear Aromatic Hydrocarbons

Sample Name: LF5GW104CL
Lab Code: DH005005
Extraction SW3520
Analysis Method: SW8310

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	ND	U	5.0	1	03/14/2006	03/25/2006	NWB10314	
Fluorene	ND	U	1.0	1	03/14/2006	03/25/2006	NWB10314	
Phenanthrene	ND	U	1.0	1	03/14/2006	03/25/2006	NWB10314	
Anthracene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Fluoranthene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Pyrene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Benzo(a)anthracene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Chrysene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Benzo(b)fluoranthene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Benzo(k)fluoranthene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Benzo(a)pyrene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Dibenzo(a,h)anthracene	ND	U	0.50	1	03/14/2006	03/25/2006	NWB10314	
Benzo(g,h,i)perylene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Indeno(1,2,3-c,d)pyrene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Acenaphthylene	ND	U	2.0	1	03/14/2006	03/25/2006	NWB10314	
Acenaphthene	ND	U	5.0	1	03/14/2006	03/25/2006	NWB10314	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Terphenyl-d14 - SS	70	65-135	03/25/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: 03/07/2006
Date Received: 03/08/2006

Polynuclear Aromatic Hydrocarbons

Sample Name: 1349MW102CL
Lab Code: DH005006
Extraction SW3520
Analysis Method: SW8310

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	ND	U	5.0	1	03/14/2006	03/25/2006	NWB10314	
Fluorene	ND	U	1.0	1	03/14/2006	03/25/2006	NWB10314	
Phenanthrene	ND	U	1.0	1	03/14/2006	03/25/2006	NWB10314	
Anthracene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Fluoranthene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Pyrene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Benzo(a)anthracene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Chrysene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Benzo(b)fluoranthene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Benzo(k)fluoranthene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Benzo(a)pyrene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Dibenzo(a,h)anthracene	ND	U	0.50	1	03/14/2006	03/25/2006	NWB10314	
Benzo(g,h,i)perylene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Indeno(1,2,3-c,d)pyrene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Acenaphthylene	ND	U	2.0	1	03/14/2006	03/25/2006	NWB10314	
Acenaphthene	ND	U	5.0	1	03/14/2006	03/25/2006	NWB10314	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Terphenyl-d14 - SS	53	65-135	03/25/2006	*

Comments: _____

QC Summary

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: NA
Date Received: NA

Polynuclear Aromatic Hydrocarbons

Sample Name: Method Blank
Lab Code: NWB10314
Extraction SW3520
Analysis Method: SW8310

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	ND	U	5.0	1	03/14/2006	03/25/2006	NWB10314	
Fluorene	ND	U	1.0	1	03/14/2006	03/25/2006	NWB10314	
Phenanthrene	ND	U	1.0	1	03/14/2006	03/25/2006	NWB10314	
Anthracene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Fluoranthene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Pyrene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Benzo(a)anthracene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Chrysene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Benzo(b)fluoranthene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Benzo(k)fluoranthene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Benzo(a)pyrene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Dibenzo(a,h)anthracene	ND	U	0.50	1	03/14/2006	03/25/2006	NWB10314	
Benzo(g,h,i)perylene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Indeno(1,2,3-c,d)pyrene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Acenaphthylene	ND	U	2.0	1	03/14/2006	03/25/2006	NWB10314	
Acenaphthene	ND	U	5.0	1	03/14/2006	03/25/2006	NWB10314	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Terphenyl-d14 - SS	87	65-135	03/25/2006	

Comments: _____

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005

Surrogate Recovery Summary
Polynuclear Aromatic Hydrocarbons

Prep Method: SW3520
Analysis Method: SW8310

Units: Percent

Sample Name	Lab Code	Q	S1
Laboratory Control Sample	NWB10314LCS		78
Laboratory Control Sample Duplicate	NWB10314LCSD		78
Method Blank	NWB10314		87
LF5GW104CL	DH005005		70
1349MW102CL	DH005006	*	53

Surrogate Recovery Control Limits (%)

S1: Terphenyl-d14 - SS 65-135

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	03/14/2006
		Date Analyzed:	03/25/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Polynuclear Aromatic Hydrocarbons

LCS Sample	Lab Control Sample	**DMS Sample**	Lab Control Sample Duplicate
Lab Code:	NWB10314LCS	**Units:**	ug/L (ppb)
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Naphthalene	SW3520	SW8310	5.0	20.00	13.82	14.10	69	71	50-135	2	
Fluorene	SW3520	SW8310	1.0	4.000	3.754	3.768	94	94	65-135	0	
Pyrene	SW3520	SW8310	0.20	2.000	1.559	1.539	78	77	65-135	1	
Benzo(a)pyrene	SW3520	SW8310	0.20	2.000	1.323	1.338	66	67	65-135	1	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Extracted:**	03/14/2006
Sample Matrix:	Water	**Date Analyzed:**	03/25/2006
		Time Analyzed:	11:54

Method Blank Summary
Polynuclear Aromatic Hydrocarbons

Extaction Method:	SW3520	**Extraction Lot:**	NWB10314
Analysis Method:	SW8310	**Level:**	

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	NWB10314LCS	I0325004	03/25/2006	10:53
Laboratory Control Sample Duplicate	NWB10314LCSD	I0325005	03/25/2006	11:24
LF5GW104CL	DH005005	I0325007	03/25/2006	12:25
1349MW102CL	DH005006	I0325008	03/25/2006	12:56

Standards data

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/24/2006

Initial Calibration Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI

Column: FL

Level ID	File ID
A	I0324011
B	I0324012
C	I0324013
D	I0324014
E	I0324015

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Naphthalene	A	1.000	71.54	B	10.00	86.01	C	20.00	91.96	D	30.00	89.40	E	40.00	85.52
Fluorene	A	0.200	157.7	B	2.000	206.8	C	4.000	207.7	D	6.000	208.2	E	8.000	186.5
Phenanthrene	A	0.100	900.0	B	1.000	1061	C	2.000	1124	D	3.000	1098	E	4.000	1047
Anthracene	A	0.100	890.5	B	1.000	1035	C	2.000	1096	D	3.000	1045	E	4.000	984.6
Fluoranthene	A	0.100	190.3	B	1.000	272.6	C	2.000	299.8	D	3.000	299.0	E	4.000	289.8
Pyrene	A	0.100	723.5	B	1.000	887.6	C	2.000	958.8	D	3.000	939.8	E	4.000	900.3
Benzo(a)anthracene	A	0.100	254.6	B	1.000	377.1	C	2.000	411.3	D	3.000	404.9	E	4.000	391.0
Chrysene	A	0.100	817.9	B	1.000	984.2	C	2.000	1048	D	3.000	1023	E	4.000	975.6
Benzo(b)fluoranthene	A	0.100	296.4	B	1.000	398.6	C	2.000	436.3	D	3.000	435.8	E	4.000	420.6
Benzo(k)fluoranthene	A	0.100	2308	B	1.000	2511	C	2.000	2679	D	3.000	2597	E	4.000	2428
Benzo(a)pyrene	A	0.100	2561	B	1.000	2771	C	2.000	2984	D	3.000	2911	E	4.000	2609
Dibenzo(a,h)anthracene	A	0.200	1438	B	2.000	1560	C	4.000	1637	D	6.000	1582	E	8.000	1378
Benzo(g,h,i)perylene	A	0.200	917.3	B	2.000	1080	C	4.000	1160	D	6.000	1112	E	8.000	1090
Indeno(1,2,3-c,d)pyrene	A	0.100	1350	B	1.000	1625	C	2.000	1735	D	3.000	1677	E	4.000	1652
Acenaphthene	A	1.000	223.2	B	10.00	233.7	C	20.00	244.0	D	30.00	235.4	E	40.00	211.8
Terphenyl-d14 - SS	A	0.250	295.1	B	2.500	359.9	C	5.000	386.0	D	7.500	376.4	E	10.00	361.6

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/24/2006

Initial Calibration Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI
Mean RSD: 9.91

Column: FL

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
Naphthalene	TRG	AverageRF	% RSD	9.3		20.0
Fluorene	TRG	AverageRF	% RSD	11.3		20.0
Phenanthrene	TRG	AverageRF	% RSD	8.3		20.0
Anthracene	TRG	AverageRF	% RSD	7.7		20.0
Fluoranthene	TRG	Linear	r	0.999		0.995
Pyrene	TRG	AverageRF	% RSD	10.6		20.0
Benzo(a)anthracene	TRG	AverageRF	% RSD	17.6		20.0
Chrysene	TRG	AverageRF	% RSD	9.3		20.0
Benzo(b)fluoranthene	TRG	AverageRF	% RSD	14.7		20.0
Benzo(k)fluoranthene	TRG	AverageRF	% RSD	5.8		20.0
Benzo(a)pyrene	TRG	AverageRF	% RSD	6.7		20.0
Dibenzo(a,h)anthracene	TRG	AverageRF	% RSD	7.1		20.0
Benzo(g,h,i)perylene	TRG	AverageRF	% RSD	8.6		20.0
Indeno(1,2,3-c,d)pyrene	TRG	AverageRF	% RSD	9.3		20.0
Acenaphthene	TRG	AverageRF	% RSD	5.4		20.0
Terphenyl-d14 - SS	SUR	AverageRF	% RSD	10.0		20.0

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/24/2006

Initial Calibration Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI

Column: UV

Level ID	File ID
A	I0324011
B	I0324012
C	I0324013
D	I0324014
E	I0324015

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Naphthalene	A	1.000	221.3	B	10.00	220.5	C	20.00	235.6	D	30.00	226.6	E	40.00	218.0
Fluorene	A	0.200	947.5	B	2.000	1027	C	4.000	1101	D	6.000	1051	E	8.000	1006
Phenanthrene	A	0.100	2438	B	1.000	2480	C	2.000	2610	D	3.000	2546	E	4.000	2450
Anthracene	A	0.100	5075	B	1.000	4963	C	2.000	5152	D	3.000	4895	E	4.000	4586
Fluoranthene	A	0.100	550.9	B	1.000	601.8	C	2.000	632.2	D	3.000	620.2	E	4.000	597.0
Pyrene	A	0.100	610.3	B	1.000	558.7	C	2.000	599.7	D	3.000	548.0	E	4.000	536.3
Benzo(a)anthracene	A	0.100	1535	B	1.000	1465	C	2.000	1561	D	3.000	1525	E	4.000	1475
Chrysene	A	0.100	2382	B	1.000	2321	C	2.000	2487	D	3.000	2410	E	4.000	2341
Benzo(b)fluoranthene	A	0.100	1699	B	1.000	1660	C	2.000	1757	D	3.000	1739	E	4.000	1678
Benzo(k)fluoranthene	A	0.100	1272	B	1.000	1168	C	2.000	1211	D	3.000	1186	E	4.000	1142
Benzo(a)pyrene	A	0.100	1478	B	1.000	1542	C	2.000	1620	D	3.000	1601	E	4.000	1554
Dibenzo(a,h)anthracene	A	0.200	444.7	B	2.000	395.3	C	4.000	421.7	D	6.000	411.1	E	8.000	394.5
Benzo(g,h,i)perylene	A	0.200	650.0	B	2.000	610.4	C	4.000	648.0	D	6.000	632.2	E	8.000	608.8
Indeno(1,2,3-c,d)pyrene	A	0.100	1789	B	1.000	1366	C	2.000	1446	D	3.000	1422	E	4.000	1353
Acenaphthylene	A	2.000	153.7	B	20.00	150.9	C	40.00	159.2	D	60.00	153.4	E	80.00	147.1
Acenaphthene	A	1.000	144.0	B	10.00	144.0	C	20.00	150.7	D	30.00	142.7	E	40.00	135.6
Terphenyl-d14 - SS	A	0.250	631.5	B	2.500	599.5	C	5.000	636.7	D	7.500	619.2	E	10.00	603.0

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/24/2006

Initial Calibration Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI
Mean RSD: 4.33

Column: UV

Analyte Name	Compound Type	Calibration Evaluation: Fit Type	Eval.	Eval. Result	Q	Control Criteria
Naphthalene	TRG	AverageRF	% RSD	3.1		20.0
Fluorene	TRG	AverageRF	% RSD	5.5		20.0
Phenanthrene	TRG	AverageRF	% RSD	2.9		20.0
Anthracene	TRG	AverageRF	% RSD	4.4		20.0
Fluoranthene	TRG	AverageRF	% RSD	5.2		20.0
Pyrene	TRG	AverageRF	% RSD	5.7		20.0
Benzo(a)anthracene	TRG	AverageRF	% RSD	2.7		20.0
Chrysene	TRG	AverageRF	% RSD	2.7		20.0
Benzo(b)fluoranthene	TRG	AverageRF	% RSD	2.4		20.0
Benzo(k)fluoranthene	TRG	AverageRF	% RSD	4.1		20.0
Benzo(a)pyrene	TRG	AverageRF	% RSD	3.6		20.0
Dibenzo(a,h)anthracene	TRG	AverageRF	% RSD	5.0		20.0
Benzo(g,h,i)perylene	TRG	AverageRF	% RSD	3.1		20.0
Indeno(1,2,3-c,d)pyrene	TRG	AverageRF	% RSD	12.2		20.0
Acenaphthylene	TRG	AverageRF	% RSD	2.9		20.0
Acenaphthene	TRG	AverageRF	% RSD	3.7		20.0
Terphenyl-d14 - SS	SUR	AverageRF	% RSD	2.7		20.0

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/24/2006

Second Source Calibration Verification
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI
File ID: I0324016

Column: FL

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Naphthalene	20.00	20.58	84.88	87.34	2.9	NA	+/- 15.0	AverageRF	
Fluorene	4.000	4.276	193.4	206.7	6.9	NA	+/- 15.0	AverageRF	*
Phenanthrene	2.000	2.029	1046	1062	1.5	NA	+/- 15.0	AverageRF	
Anthracene	2.000	2.136	1010	1079	6.8	NA	+/- 15.0	AverageRF	
Fluoranthene	2.000	2.124	270.3	310.1	NA	6.2	+/- 15.0	Linear	
Pyrene	2.000	2.088	882.0	920.7	4.4	NA	+/- 15.0	AverageRF	
Benzo(a)anthracene	2.000	2.204	367.8	405.3	10.2	NA	+/- 15.0	AverageRF	
Chrysene	2.000	2.169	969.7	1052	8.4	NA	+/- 15.0	AverageRF	
Benzo(b)fluoranthene	2.000	2.238	397.5	444.7	11.9	NA	+/- 15.0	AverageRF	
Benzo(k)fluoranthene	2.000	2.090	2504	2617	4.5	NA	+/- 15.0	AverageRF	
Benzo(a)pyrene	2.000	2.124	2767	2939	6.2	NA	+/- 15.0	AverageRF	
Dibenzo(a,h)anthracene	4.000	3.989	1519	1515	-0.3	NA	+/- 15.0	AverageRF	
Benzo(g,h,i)perylene	4.000	4.121	1072	1104	3.0	NA	+/- 15.0	AverageRF	
Indeno(1,2,3-c,d)pyrene	2.000	2.151	1608	1729	7.5	NA	+/- 15.0	AverageRF	
Acenaphthene	20.00	20.97	229.6	240.8	4.9	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/24/2006

Second Source Calibration Verification
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI
File ID: I0324016

Column: UV

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Naphthalene	20.00	19.90	224.4	223.3	-0.5	NA	+/- 15.0	AverageRF	
Fluorene	4.000	4.041	1026	1037	1.0	NA	+/- 15.0	AverageRF	
Phenanthrene	2.000	1.959	2505	2453	-2.0	NA	+/- 15.0	AverageRF	
Anthracene	2.000	2.060	4934	5082	3.0	NA	+/- 15.0	AverageRF	
Fluoranthene	2.000	2.099	600.4	630.0	4.9	NA	+/- 15.0	AverageRF	
Pyrene	2.000	1.909	570.6	544.6	-4.6	NA	+/- 15.0	AverageRF	
Benzo(a)anthracene	2.000	2.038	1512	1541	1.9	NA	+/- 15.0	AverageRF	
Chrysene	2.000	2.069	2388	2471	3.5	NA	+/- 15.0	AverageRF	
Benzo(b)fluoranthene	2.000	2.082	1707	1777	4.1	NA	+/- 15.0	AverageRF	
Benzo(k)fluoranthene	2.000	1.985	1196	1187	-0.7	NA	+/- 15.0	AverageRF	
Benzo(a)pyrene	2.000	2.102	1559	1639	5.1	NA	+/- 15.0	AverageRF	
Dibenzo(a,h)anthracene	4.000	3.724	413.5	385.0	-6.9	NA	+/- 15.0	AverageRF	
Benzo(g,h,i)perylene	4.000	3.966	629.9	624.4	-0.9	NA	+/- 15.0	AverageRF	
Indeno(1,2,3-c,d)pyrene	2.000	1.984	1475	1463	-0.8	NA	+/- 15.0	AverageRF	
Acenaphthylene	40.00	39.54	152.9	151.1	-1.2	NA	+/- 15.0	AverageRF	
Acenaphthene	20.00	19.47	143.4	139.6	-2.7	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/25/2006

Continuing Calibration Verification Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI
File ID: I0325003

Column: FL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Naphthalene	20.00	21.32	84.88	90.47	6.6	NA	+/- 15.0	AverageRF	
Fluorene	4.000	5.334	193.4	257.9	33.4	NA	+/- 15.0	AverageRF	*
Phenanthrene	2.000	2.189	1046	1145	9.4	NA	+/- 15.0	AverageRF	
Anthracene	2.000	2.185	1010	1104	9.3	NA	+/- 15.0	AverageRF	
Fluoranthene	2.000	2.053	270.3	299.6	NA	2.6	+/- 15.0	Linear	
Pyrene	2.000	2.077	882.0	915.9	3.8	NA	+/- 15.0	AverageRF	
Benzo(a)anthracene	2.000	2.251	367.8	414.0	12.6	NA	+/- 15.0	AverageRF	
Chrysene	2.000	2.176	969.7	1055	8.8	NA	+/- 15.0	AverageRF	
Benzo(b)fluoranthene	2.000	2.210	397.5	439.4	10.5	NA	+/- 15.0	AverageRF	
Benzo(k)fluoranthene	2.000	2.125	2504	2662	6.3	NA	+/- 15.0	AverageRF	
Benzo(a)pyrene	2.000	2.090	2767	2892	4.5	NA	+/- 15.0	AverageRF	
Dibenzo(a,h)anthracene	4.000	4.282	1519	1626	7.0	NA	+/- 15.0	AverageRF	
Benzo(g,h,i)perylene	4.000	4.220	1072	1131	5.5	NA	+/- 15.0	AverageRF	
Indeno(1,2,3-c,d)pyrene	2.000	2.148	1608	1727	7.4	NA	+/- 15.0	AverageRF	
Acenaphthene	20.00	21.89	229.6	251.3	9.4	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/25/2006

Continuing Calibration Verification Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI
File ID: I0325003

Column: UV

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Naphthalene	20.00	20.78	224.4	233.2	3.9	NA	+/- 15.0	AverageRF	
Fluorene	4.000	4.296	1026	1102	7.4	NA	+/- 15.0	AverageRF	
Phenanthrene	2.000	2.096	2505	2625	4.8	NA	+/- 15.0	AverageRF	
Anthracene	2.000	2.094	4934	5166	4.7	NA	+/- 15.0	AverageRF	
Fluoranthene	2.000	2.164	600.4	649.6	8.2	NA	+/- 15.0	AverageRF	
Pyrene	2.000	1.978	570.6	564.3	-1.1	NA	+/- 15.0	AverageRF	
Benzo(a)anthracene	2.000	2.097	1512	1586	4.9	NA	+/- 15.0	AverageRF	
Chrysene	2.000	2.104	2388	2513	5.2	NA	+/- 15.0	AverageRF	
Benzo(b)fluoranthene	2.000	2.070	1707	1766	3.5	NA	+/- 15.0	AverageRF	
Benzo(k)fluoranthene	2.000	2.024	1196	1210	1.2	NA	+/- 15.0	AverageRF	
Benzo(a)pyrene	2.000	2.044	1559	1593	2.2	NA	+/- 15.0	AverageRF	
Dibenzo(a,h)anthracene	4.000	4.101	413.5	423.9	2.5	NA	+/- 15.0	AverageRF	
Benzo(g,h,i)perylene	4.000	4.104	629.9	646.2	2.6	NA	+/- 15.0	AverageRF	
Indeno(1,2,3-c,d)pyrene	2.000	1.976	1475	1458	-1.2	NA	+/- 15.0	AverageRF	
Acenaphthylene	40.00	41.88	152.9	160.1	4.7	NA	+/- 15.0	AverageRF	
Acenaphthene	20.00	21.02	143.4	150.7	5.1	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/25/2006

Continuing Calibration Verification Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI
File ID: I0325012

Column: FL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Naphthalene	30.00	31.26	84.88	88.46	4.2	NA	+/- 15.0	AverageRF	
Fluorene	6.000	7.992	193.4	257.6	33.2	NA	+/- 15.0	AverageRF	*
Phenanthrene	3.000	3.194	1046	1114	6.5	NA	+/- 15.0	AverageRF	
Anthracene	3.000	3.091	1010	1041	3.0	NA	+/- 15.0	AverageRF	
Fluoranthene	3.000	2.672	270.3	261.0	NA	-10.9	+/- 15.0	Linear	
Pyrene	3.000	2.992	882.0	879.6	-0.3	NA	+/- 15.0	AverageRF	
Benzo(a)anthracene	3.000	3.332	367.8	408.5	11.1	NA	+/- 15.0	AverageRF	
Chrysene	3.000	3.192	969.7	1032	6.4	NA	+/- 15.0	AverageRF	
Benzo(b)fluoranthene	3.000	3.299	397.5	437.2	10.0	NA	+/- 15.0	AverageRF	
Benzo(k)fluoranthene	3.000	3.142	2504	2623	4.8	NA	+/- 15.0	AverageRF	
Benzo(a)pyrene	3.000	3.143	2767	2899	4.8	NA	+/- 15.0	AverageRF	
Dibenzo(a,h)anthracene	6.000	6.275	1519	1589	4.6	NA	+/- 15.0	AverageRF	
Benzo(g,h,i)perylene	6.000	5.962	1072	1065	-0.6	NA	+/- 15.0	AverageRF	
Indeno(1,2,3-c,d)pyrene	3.000	3.027	1608	1622	0.9	NA	+/- 15.0	AverageRF	
Acenaphthene	30.00	31.85	229.6	243.8	6.2	NA	+/- 15.0	AverageRF	

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/25/2006

Continuing Calibration Verification Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI
File ID: I0325012

Column: UV

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Naphthalene	30.00	30.79	224.4	230.3	2.6	NA	+/- 15.0	AverageRF	
Fluorene	6.000	6.182	1026	1057	3.0	NA	+/- 15.0	AverageRF	
Phenanthrene	3.000	3.104	2505	2591	3.5	NA	+/- 15.0	AverageRF	
Anthracene	3.000	3.029	4934	4982	1.0	NA	+/- 15.0	AverageRF	
Fluoranthene	3.000	3.081	600.4	616.6	2.7	NA	+/- 15.0	AverageRF	
Pyrene	3.000	2.891	570.6	549.9	-3.6	NA	+/- 15.0	AverageRF	
Benzo(a)anthracene	3.000	3.088	1512	1557	2.9	NA	+/- 15.0	AverageRF	
Chrysene	3.000	3.086	2388	2456	2.9	NA	+/- 15.0	AverageRF	
Benzo(b)fluoranthene	3.000	3.086	1707	1755	2.8	NA	+/- 15.0	AverageRF	
Benzo(k)fluoranthene	3.000	2.967	1196	1183	-1.1	NA	+/- 15.0	AverageRF	
Benzo(a)pyrene	3.000	3.035	1559	1578	1.2	NA	+/- 15.0	AverageRF	
Dibenzo(a,h)anthracene	6.000	5.992	413.5	412.9	-0.1	NA	+/- 15.0	AverageRF	
Benzo(g,h,i)perylene	6.000	6.087	629.9	639.0	1.4	NA	+/- 15.0	AverageRF	
Indeno(1,2,3-c,d)pyrene	3.000	3.010	1475	1480	0.3	NA	+/- 15.0	AverageRF	
Acenaphthylene	60.00	61.11	152.9	155.7	1.8	NA	+/- 15.0	AverageRF	
Acenaphthene	30.00	30.67	143.4	146.6	2.2	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO **Service Request:** DH005
Project: PRESIDIO

Analysis Run Log
Polynuclear Aromatic Hydrocarbons

Analysis Method: SW8310 **Instrument ID:** LCI
Column: FL

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
I0324011	FSTD1	FSTD1	03/24/2006	14:01		03/24/2006	14:31
I0324012	FSTD2	FSTD2	03/24/2006	14:31		03/24/2006	15:01
I0324013	FSTD3	FSTD3	03/24/2006	15:02		03/24/2006	15:32
I0324014	FSTD4	FSTD4	03/24/2006	15:33		03/24/2006	16:03
I0324015	FSTD5	FSTD5	03/24/2006	16:03		03/24/2006	16:33
I0324016	QCALTSTD	FSTD3 ICVS	03/24/2006	16:34		03/24/2006	17:04
I0325003	KSTD3	KSTD3	03/25/2006	10:02		03/25/2006	10:32
I0325004	Laboratory Control Sample	NWB10314LCS	03/25/2006	10:53		03/25/2006	11:23
I0325005	Laboratory Control Sample Duplicate	NWB10314LCSD	03/25/2006	11:24		03/25/2006	11:54
I0325006	Method Blank	NWB10314	03/25/2006	11:54		03/25/2006	12:24
I0325007	LF5GW104CL	DH005005	03/25/2006	12:25		03/25/2006	12:55
I0325008	1349MW102CL	DH005006	03/25/2006	12:56		03/25/2006	13:26
I0325012	KSTD4	KSTD4	03/25/2006	15:40		03/25/2006	16:10

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Extracted: 03/14/2006

Extraction Prep Log
Polynuclear Aromatic Hydrocarbons

Extaction Method: SW3520
Analysis Method: SW8310

Extraction Lot: NWB10314
Level:

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	NWB10314	NA	NA	1.000 L	1	NA	
Laboratory Control Sample	NWB10314LCS	NA	NA	1.000 L	1	NA	
Laboratory Control Sample Duplicate	NWB10314LCSD	NA	NA	1.000 L	1	NA	
LF5GW104CL	DH005005	03/07/2006	03/08/2006	1.050 L	1	NA	
1349MW102CL	DH005006	03/07/2006	03/08/2006	1.040 L	1	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO **Service Request:** DH005
Project: PRESIDIO

Holding Time Summary
Polynuclear Aromatic Hydrocarbons

Analysis Method: SW8310

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
LF5GW104CL	03/07/2006	03/08/2006	03/14/2006	7	7	N/A	N/A	N/A	03/25/2006	40	11	
1349MW102CL	03/07/2006	03/08/2006	03/14/2006	7	7	N/A	N/A	N/A	03/25/2006	40	11	

Comments:

SUPPORT DOCUMENTATION

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: SW8310 Matrix: Water

Instrument ID: LCI

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
Anthracene	08/03/2005	0.01	0.0030	0.0034	0.0037	0.0056	0.0034	0.0035	0.0048	0.0027	0.0010	0.0029
Pyrene	08/03/2005	0.01	0.0044	0.0038	0.0058	0.0070	0.0050	0.0095	0.0075	0.0034	0.0021	0.0062
Benzo(g,h,i)perylene	08/03/2005	0.02	0.0076	0.0049	0.0096	0.0103	0.0098	0.0115	0.0121	0.0075	0.0024	0.0071
Indeno(1,2,3-cd)pyrene	08/03/2005	0.01	0.0039	0.0028	0.0054	0.0049	0.0049	0.0062	0.0069	0.0036	0.0013	0.0040
Benzo(b)fluoranthene	08/03/2005	0.01	0.0070	0.0049	0.0068	0.0087	0.0056	0.0090	0.0077	0.0048	0.0016	0.0049
Fluoranthene	08/03/2005	0.01	0.0047	0.0039	0.0058	0.0054	0.0054	0.0076	0.0068	0.0037	0.0013	0.0040
Benzo(k)fluoranthene	08/03/2005	0.01	0.0058	0.0037	0.0061	0.0061	0.0058	0.0055	0.0071	0.0049	0.0010	0.0030
Acenaphthylene	08/03/2005	0.20	0.1214	0.1827	0.1758	0.1889	0.1609	0.1606	0.2152	0.1444	0.029	0.086
Chrysene	08/03/2005	0.01	0.0043	0.0032	0.0049	0.0044	0.0043	0.0075	0.0055	0.0038	0.0013	0.0040
Benzo(a)pyrene	08/03/2005	0.01	0.0038	0.0039	0.0048	0.0093	0.0042	0.0038	0.0056	0.0037	0.0019	0.0057
Dibenzo(a,h)anthracene	08/03/2005	0.02	0.0125	0.0078	0.0147	0.0153	0.0153	0.0127	0.0162	0.0118	0.0027	0.0082
Benzo(a)anthracene	08/03/2005	0.01	0.0022	0.0014	0.0027	0.0032	0.0018	0.0061	0.0038	0.0013	0.0016	0.0048
Acenaphthene	08/03/2005	0.10	0.0442	0.0488	0.0485	0.0487	0.0464	0.0465	0.0578	0.0363	0.0060	0.018
Phenanthrene	08/03/2005	0.01	0.0054	0.0054	0.0060	0.0069	0.0055	0.0064	0.0076	0.0045	0.0010	0.0029
Fluorene	08/03/2005	0.02	0.0068	0.0082	0.0077	0.0089	0.0081	0.0073	0.0096	0.0047	0.0015	0.0045
Naphthalene	08/03/2005	0.10	0.0377	0.0412	0.0430	0.0413	0.0435	0.0393	0.0553	0.0333	0.0063	0.019

Liquid-Liquid Extraction, 3520C **Polynuclear Aromatic Hydrocarbon Water**

Date	3-14-06
Time	15:25

Batches: D1t005, D1t009, D0600027

Client(s): Presidio, Treadwell & Rollo

Analytical Method

~~8330~~ 8310

Solvent Lots

DCM	45348 3/6 3/14
Cylcohexane	
Pentane	
Acetonitrile	45024 12/1/5 2/15/6

Spikes

Surrogate: 13-EXS-90B

Amt. 1.0 ml Exp: 6/13/06

Spike: 13-EXS-87A

Amt. 1.0 ml Exp: 5/16/06

Spiked by: JP Witness: CC

Cleanup

☐ Silica Gel, 3630C

By/date ____ Lot ____

☒ No cleanup

Comments:

Test Code(s)
8310

Sample ID	Surrogate	Spike	Amt (1L)	Final KD: H2O bath temp 95(ACN)°C; Date & Volume	Relinq. Date
	X	X	By: JP	By: MP 3/28/6	By: MP 3/28/6
NWB1	X		1.0	1.0 ml	
~~NWB2~~					JP 3-14-06
NWL1	X	X	1.0		
NWL2	X	X	1.0		
D1H005-5R	X		1.05		
↓ -6R	X		1.04		
D1t009-2W	X		1.03		
D0600027-2W	X		1.02		

☐ Completed ms/msd

☒ Sample limited, no ms/msd, duplicate LCS

065

Peer Review By:

Organic Extractions Dept.
CAS-Redding

Columbia Analytical Services, Inc.

HP1050 Injection Log

Instrument ID:
LC1

Standard(s)	
A	1-HP-48F
B	
C	

Analytical Method	
X	8310
	8315A
	8330
	Other _____

Target Method(s)	
A	8310_0324PL/UV.m
B	
C	
D	

Date
3/24/06

ICAL Date(s)	3/24/06

Analyst	mge

Page: 5

Target Method	Data Directory	Filename	Sample ID	F	Matrix	DL Factor	STD	Use?	Comments
A	I060324	I0324 001-	010 WASH	—	STD	1x		—	run multiple washes to cycle instrument
		011	KSTD1	—				Y	1-HP-48C
		012	KSTD2	—					-48D
		013	KSTD3	—					-48E
		014	KSTD4	—					-48F
		015	KSTD5	—					-48A
		016	KSTD3 JCVS	—					(passed)
		017	NWB103/4LCS	—	WA			N	
		018	LCSD	—					
		019	NWB10314	—					
		020	DH005005						
		021	006						
		022	DH009002						
		023	D0600027-002						
		024	WASH	—	—				
		025	KSTD4	—	STD		A		Wavelength settings OFF - Run Sequence

Columbia Analytical Services, Inc.

HP1050 Injection Log

Instrument ID:
LCI

Standard(s)	
A	1-HP-48E
B	-48F
C	

Analytical Method	
X	8310
	8315A
	8330
	Other ____

Target Method(s)	
A	8310 - 0324 FL/UV.m
B	
C	
D	

Date
3/25/06

ICAL Date(s)	3/24/06

Analyst	mBc

Page: 6

Target Method	Data Directory	Filename	Sample ID	F	Matrix	DL Factor	STD	Use?	Comments
A	I060325	I0325 001	Primer	—	STD	1X		—	Condition instrument; adj. wavelength settings
		002	Wash	—				—	
		003	ICSTD3	—			A	Y	Fluorene ↑ FL, OK on UV : Report from UV
		004	NWB10314LCS	—	WA				
		005	LCSD	—					
		006	NWB10314	—					
		007	DH005005	R					
		008	006	R					Low Surr, re-ext
		009	DH009002	N					
		010	D0600027-002	.10					
		011	WASH	—	—			—	
		012	KSTD4	—	STD		B	Y	Fluorene ↑ FL, OK on UV : Multi in samples

GC ORGANOCHLORINE PCBS

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: 03/07/2006
Date Received: 03/08/2006

PolyChlorinated Biphenyls (PCBs)

Sample Name: LF4GW103CL
Lab Code: DH005004
Extraction SW3520
Analysis Method: SW8082

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor-1254	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1248	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1016	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1221	ND	U	2.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1232	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1242	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1260	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	36	65-135	03/24/2006	*
Tetrachloro-m-xylene - SS	62	65-135	03/24/2006	*

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: 03/07/2006
Date Received: 03/08/2006

PolyChlorinated Biphenyls (PCBs)

Sample Name: LF4GW103CLR
Lab Code: DH005004RE
Extraction SW3520
Analysis Method: SW8082

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor-1254	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1248	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1016	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1221	ND	U	2.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1232	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1242	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1260	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	44	65-135	03/31/2006	*
Tetrachloro-m-xylene - SS	68	65-135	03/31/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: 03/07/2006
Date Received: 03/08/2006

PolyChlorinated Biphenyls (PCBs)

Sample Name: 1349MW102CL
Lab Code: DH005006
Extraction SW3520
Analysis Method: SW8082

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor-1254	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1248	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1016	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1221	ND	U	2.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1232	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1242	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1260	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	18	65-135	03/24/2006	*
Tetrachloro-m-xylene - SS	52	65-135	03/24/2006	*

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: 03/07/2006
Date Received: 03/08/2006

PolyChlorinated Biphenyls (PCBs)

Sample Name: 1349MW102CLR
Lab Code: DH005006RE
Extraction SW3520
Analysis Method: SW8082

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor-1254	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1248	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1016	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1221	ND	U	2.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1232	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1242	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1260	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	33	65-135	03/31/2006	*
Tetrachloro-m-xylene - SS	60	65-135	03/31/2006	*

Comments: _____

QC Summary

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: NA
Date Received: NA

PolyChlorinated Biphenyls (PCBs)

Sample Name: Method Blank
Lab Code: PWB10313
Extraction SW3520
Analysis Method: SW8082

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor-1254	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1248	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1016	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1221	ND	U	2.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1232	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1242	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1260	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	76	65-135	03/24/2006	
Tetrachloro-m-xylene - SS	97	65-135	03/24/2006	

Comments:

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: NA
Date Received: NA

PolyChlorinated Biphenyls (PCBs)

Sample Name: Method Blank
Lab Code: PWB10329
Extraction SW3520
Analysis Method: SW8082

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor-1254	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1248	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1016	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1221	ND	U	2.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1232	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1242	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1260	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	82	65-135	03/31/2006	
Tetrachloro-m-xylene - SS	89	65-135	03/31/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005

Surrogate Recovery Summary
PolyChlorinated Biphenyls (PCBs)

Prep Method: SW3520
Analysis Method: SW8082

Units: Percent

Sample Name	Lab Code	Q	S1	S2
Method Blank	PWB10313		76	97
LF4GW103CL	DH005004	*	36	62
1349MW102CL	DH005006	*	18	52
Laboratory Control Sample	PWB10329LCS		76	87
Laboratory Control Sample Duplicate	PWB10329LCSD		68	89
Method Blank	PWB10329		82	89
LF4GW103CLR	DH005004RE	*	44	68
1349MW102CLR	DH005006RE	*	33	60
Laboratory Control Sample	PWB10313LCS	*	60	71
Laboratory Control Sample Duplicate	PWB10313LCSD		66	83

Surrogate Recovery Control Limits (%)

S1:	Decachlorobiphenyl - SS	65-135
S2:	Tetrachloro-m-xylene - SS	65-135

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	03/13/2006
		Date Analyzed:	03/31/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
PolyChlorinated Biphenyls (PCBs)

LCS Sample	Lab Control Sample	**DMS Sample**	Lab Control Sample Duplicate
Lab Code:	PWB10313LCS	**Units:**	ug/L (ppb)
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Aroclor-1016	SW3520	SW8082	1.0	5.000	3.554	4.276	71	86	65-135	18	
Aroclor-1260	SW3520	SW8082	1.0	5.000	3.537	3.867	71	77	65-135	9	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	03/29/2006
		Date Analyzed:	03/31/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
PolyChlorinated Biphenyls (PCBs)

LCS Sample	Lab Control Sample	**DMS Sample**	Lab Control Sample Duplicate
Lab Code:	PWB10329LCS	**Units:**	ug/L (ppb)
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Aroclor-1016	SW3520	SW8082	1.0	5.000	4.641	4.735	93	95	65-135	2	
Aroclor-1260	SW3520	SW8082	1.0	5.000	3.384	3.872	68	77	65-135	13	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Extracted:**	03/13/2006
Sample Matrix:	Water	**Date Analyzed:**	03/24/2006
		Time Analyzed:	19:32

Method Blank Summary

PolyChlorinated Biphenyls (PCBs)

Extaction Method:	SW3520	**Extraction Lot:**	PWB10313
Analysis Method:	SW8082	**Level:**	

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
LF4GW103CL	DH005004		03/24/2006	20:04
1349MW102CL	DH005006		03/24/2006	21:06
Laboratory Control Sample	PWB10313LCS		03/31/2006	13:03
Laboratory Control Sample Duplicate	PWB10313LCSD		03/31/2006	13:34

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Extracted: 03/29/2006
Date Analyzed: 03/31/2006
Time Analyzed: :

Method Blank Summary
PolyChlorinated Biphenyls (PCBs)

Extaction Method: SW3520
Analysis Method: SW8082

Extraction Lot: PWB10329
Level:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	PWB10329LCS		03/31/2006	09:56
Laboratory Control Sample Duplicate	PWB10329LCSD		03/31/2006	10:27
LF4GW103CLR	DH005004RE		03/31/2006	11:30
1349MW102CLR	DH005006RE		03/31/2006	12:01

Standards data

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/20/2006

Initial Calibration Summary
PolyChlorinated Biphenyls (PCBs)

ICAL ID: 03/20/2006GCC
Instrument ID: GCC

Column: RTX-CLP2

Level ID	File ID
A	C0320011
B	C0320012
C	C0320013
D	C0320014
E	C0320015

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Decachlorobiphenyl - SS	A	0.010	3637	B	0.050	2612	C	0.100	2332	D	0.150	2290	E	0.200	2194
Tetrachloro-m-xylene	A	0.010	2965	B	0.050	2927	C	0.100	2770	D	0.150	2740	E	0.200	2680
Aroclor-1221	A			B			C	0.500	446.7	D			E		
Aroclor-1232	A			B			C	0.500	524	D			E		
Aroclor-1242	A			B			C	0.500	485.2	D			E		
Aroclor-1248	A			B			C	0.500	1406	D			E		
Aroclor-1254	A			B			C	0.500	1307	D			E		

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/20/2006

Initial Calibration Summary
PolyChlorinated Biphenyls (PCBs)

ICAL ID: 03/20/2006GCC
Instrument ID: GCC

Column: RTX-CLP2

Level ID	File ID
A	C0320011
B	C0320012
C	C0320013
D	C0320014
E	C0320015

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Aroclor-1016	A	0.050	115.6	B	0.250	97.74	C	0.500	89.28	D	0.750	88.22	E	1.000	86.36
Aroclor-1260	A	0.050	125.6	B	0.250	110.2	C	0.500	101.8	D	0.750	100.6	E	1.000	97.64

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/20/2006

Initial Calibration Summary
PolyChlorinated Biphenyls (PCBs)

ICAL ID: 03/20/2006GCC
Instrument ID: GCC
Mean RSD: 0.00

Column: RTX-CLP2

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
Decachlorobiphenyl - SS	SUR	Linear	r	1.000		0.995
Tetrachloro-m-xylene	SUR	AverageRF	% RSD	4.4		20.0
Aroclor-1221	TRG	AverageRF	% RSD	0.0		20.0
Aroclor-1232	TRG	AverageRF	% RSD	0.0		20.0
Aroclor-1242	TRG	AverageRF	% RSD	0.0		20.0
Aroclor-1248	TRG	AverageRF	% RSD	0.0		20.0
Aroclor-1254	TRG	AverageRF	% RSD	0.0		20.0

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/20/2006

Initial Calibration Summary
PolyChlorinated Biphenyls (PCBs)

ICAL ID: 03/20/2006GCC
Instrument ID: GCC
Mean RSD: 11.70

Column: RTX-CLP2

			Calibration Evaluation			
Analyte Name	**Compound Type**	**Fit Type**	**Eval.**	**Eval. Result**	**Q**	**Control Criteria**
Aroclor-1016	TRG	AverageRF	% RSD	13.0		20.0
Aroclor-1260	TRG	AverageRF	% RSD	10.4		20.0

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/20/2006

Second Source Calibration Verification
PolyChlorinated Biphenyls (PCBs)

ICAL ID: 03/20/2006GCC
Instrument ID: GCC
File ID: C0320016

Column: RTX-CLP2

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Decachlorobiphenyl - SS	0.100	0.105	0.105	0.100	NA	4.9	+/- 15.0	Linear	
Aroclor-1016	0.500	0.488	0.488	0.500	-2.40	NA	+/- 15.0	AverageRF	
Aroclor-1260	0.500	0.510	0.510	0.500	2.10	NA	+/- 15.0	AverageRF	
Tetrachloro-m-xylene	0.100	0.102	0.102	0.100	1.80	NA	+/- 15.0	AverageRF	

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/24/2006

Continuing Calibration Verification Summary
PolyChlorinated Biphenyls (PCBs)

ICAL ID: 03/20/2006GCC
Instrument ID: GCC
File ID: C0324014

Column: RTX-CLP2

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Decachlorobiphenyl - SS	0.150	0.154	0.154	0.150	NA	2.7	+/- 15.0	Linear	
Aroclor-1016	0.750	0.714	0.714	0.750	-4.80	NA	+/- 15.0	AverageRF	
Aroclor-1260	0.750	0.707	0.707	0.750	-5.70	NA	+/- 15.0	AverageRF	
Tetrachloro-m-xylene	0.150	0.149	0.149	0.150	-0.40	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/24/2006

Continuing Calibration Verification Summary
PolyChlorinated Biphenyls (PCBs)

ICAL ID: 03/20/2006GCC
Instrument ID: GCC
File ID: C0324024

Column: RTX-CLP2

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Decachlorobiphenyl - SS	0.100	0.105	0.105	0.100	NA	4.6	+/- 15.0	Linear	
Aroclor-1016	0.500	0.478	0.478	0.500	-4.30	NA	+/- 15.0	AverageRF	
Aroclor-1260	0.500	0.493	0.493	0.500	-1.40	NA	+/- 15.0	AverageRF	
Tetrachloro-m-xylene	0.100	0.102	0.102	0.100	1.70	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/31/2006

Continuing Calibration Verification Summary
PolyChlorinated Biphenyls (PCBs)

ICAL ID: 03/20/2006GCC
Instrument ID: GCC
File ID: C0331003

Column: RTX-CLP2

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Decachlorobiphenyl - SS	0.100	0.110	0.111	0.100	NA	10.5	+/- 15.0	Linear	
Aroclor-1016	0.500	0.520	0.520	0.500	4.00	NA	+/- 15.0	AverageRF	
Aroclor-1260	0.500	0.444	0.444	0.500	-11.20	NA	+/- 15.0	AverageRF	
Tetrachloro-m-xylene	0.100	0.106	0.106	0.100	5.80	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/31/2006

Continuing Calibration Verification Summary
PolyChlorinated Biphenyls (PCBs)

ICAL ID: 03/20/2006GCC
Instrument ID: GCC
File ID: C0331015

Column: RTX-CLP2

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Decachlorobiphenyl - SS	0.150	0.163	0.163	0.150	NA	8.5	+/- 15.0	Linear	
Aroclor-1016	0.750	0.710	0.710	0.750	-5.40	NA	+/- 15.0	AverageRF	
Aroclor-1260	0.750	0.687	0.687	0.750	-8.40	NA	+/- 15.0	AverageRF	
Tetrachloro-m-xylene	0.150	0.146	0.146	0.150	-2.60	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005

Analysis Run Log
PolyChlorinated Biphenyls (PCBs)

Analysis Method: SW8082

Instrument ID: GCC
Column: RTX-CLP2

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
C0320004	OSTD3 1221	OSTD3 1221	03/20/2006	10:43		03/20/2006	11:13
C0320005	OSTD3 1232	OSTD3 1232	03/20/2006	11:14		03/20/2006	11:44
C0320006	OSTD3 1242	OSTD3 1242	03/20/2006	11:45		03/20/2006	12:15
C0320007	OSTD3 1248	OSTD3 1248	03/20/2006	12:16		03/20/2006	12:46
C0320008	OSTD3 1254	OSTD3 1254	03/20/2006	12:48		03/20/2006	13:18
C0320011	OSTD1 1660	OSTD1 1660	03/20/2006	14:21		03/20/2006	14:51
C0320012	OSTD2 1660	OSTD2 1660	03/20/2006	14:53		03/20/2006	15:23
C0320013	OSTD3 1660	OSTD3 1660	03/20/2006	15:24		03/20/2006	15:54
C0320014	OSTD4 1660	OSTD4 1660	03/20/2006	15:55		03/20/2006	16:25
C0320015	OSTD5 1660	OSTD5 1660	03/20/2006	16:26		03/20/2006	16:56
C0320016	QCALTSTD	OSTD3 1660	03/20/2006	16:58		03/20/2006	17:28
C0324014	OSTD4 1660	OSTD4 1660	03/24/2006	17:28		03/24/2006	17:58
C0324018	Method Blank	PWB10313	03/24/2006	19:32		03/24/2006	20:02
C0324019	LF4GW103CL	DH005004	03/24/2006	20:04		03/24/2006	20:34
C0324021	1349MW102CL	DH005006	03/24/2006	21:06		03/24/2006	21:36
C0324024	OSTD3 1660	OSTD3 1660	03/24/2006	22:40		03/24/2006	23:10
C0331003	OSTD3 1660	OSTD3 1660	03/31/2006	08:54		03/31/2006	09:24
C0331005	Laboratory Control Sample	PWB10329LCS	03/31/2006	09:56		03/31/2006	10:26
C0331006	Laboratory Control Sample Duplicate	PWB10329LCSD	03/31/2006	10:27		03/31/2006	10:57
C0331007	Method Blank	PWB10329	03/31/2006	10:58		03/31/2006	11:28
C0331008	LF4GW103CLR	DH005004RE	03/31/2006	11:30		03/31/2006	12:00
C0331009	1349MW102CLR	DH005006RE	03/31/2006	12:01		03/31/2006	12:31
C0331011	Laboratory Control Sample	PWB10313LCS	03/31/2006	13:03		03/31/2006	13:33
C0331012	Laboratory Control Sample Duplicate	PWB10313LCSD	03/31/2006	13:34		03/31/2006	14:04
C0331015	OSTD4 1660	OSTD4 1660	03/31/2006	15:08		03/31/2006	15:38

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Extracted: 03/13/2006

Extraction Prep Log
PolyChlorinated Biphenyls (PCBs)

Extaction Method: SW3520
Analysis Method: SW8082

Extraction Lot: PWB10313
Level:

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	PWB10313	NA	NA	1.000 L	10	NA	
LF4GW103CL	DH005004	03/07/2006	03/08/2006	1.050 L	10	NA	
1349MW102CL	DH005006	03/07/2006	03/08/2006	1.050 L	10	NA	
Laboratory Control Sample	PWB10313LCS	NA	NA	1.000 L	10	NA	
Laboratory Control Sample Duplicate	PWB10313LCSD	NA	NA	1.000 L	10	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Extracted: 03/29/2006

Extraction Prep Log
PolyChlorinated Biphenyls (PCBs)

Extaction Method: SW3520
Analysis Method: SW8082

Extraction Lot: PWB10329
Level:

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	PWB10329	NA	NA	1.000 L	10	NA	
Laboratory Control Sample	PWB10329LCS	NA	NA	1.000 L	10	NA	
Laboratory Control Sample Duplicate	PWB10329LCSD	NA	NA	1.000 L	10	NA	
LF4GW103CLR	DH005004RE	03/07/2006	03/08/2006	1.050 L	10	NA	*
1349MW102CLR	DH005006RE	03/07/2006	03/08/2006	1.040 L	10	NA	*

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005

Holding Time Summary
PolyChlorinated Biphenyls (PCBs)

Analysis Method: SW8082

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
LF4GW103CL	03/07/2006	03/08/2006	03/13/2006	7	6	N/A	N/A	N/A	03/24/2006	40	11	
LF4GW103CLR	03/07/2006	03/08/2006	03/29/2006	7	22	N/A	N/A	N/A	03/31/2006	40	2	*
1349MW102CL	03/07/2006	03/08/2006	03/13/2006	7	6	N/A	N/A	N/A	03/24/2006	40	11	
1349MW102CLR	03/07/2006	03/08/2006	03/29/2006	7	22	N/A	N/A	N/A	03/31/2006	40	2	*

Comments:

Support Documentation

Liquid-Liquid Extraction, 3520C

Pesticide/PCB Water

Date	3-13-06
Time	16:00

Batches: DH005, DH008, DH009

Client(s): Presidio, EA/Andersen

Analytical Method(s)

- [X] 8081A
- [X] 8082
- [ ] CLP
- [ ] TCLP,1311

Solvent Lots

DCM	45348 3/16/3/13
Acetone	—
Hexane	45083 3/15/6

Spikes

Surrogate	13-EXS-78A-3		
Amt.	1.0 ml	Exp:	3/15/06
Spike 1	13-EXS-89A90A		
Amt.	1.0 ml	Exp:	3/27/06
Spike 2	13-EXS-86A		
Amt.	1.0 ml	Exp:	5/7/06
Spike 3	-EXS-		
Amt.	ml	Exp:	

Spiked by [illegible] Witness [illegible]

Cleanups

- [ ] GPC, 3640A — Calib ____ By/date ____ ID ____
- *Initial KD* [ ] 1.0ml aliquot saved — By/date ____ vol ____ ml
- [ ] Florisil, 3620B — By/date ____ Lot ____
- [ ] Sulfuric Acid, 3665A — By/date ____ Lot ____
- [ ] Mercury, 3660B — By/date ____ Lot ____
- [X] No cleanups

Test Code(s): 8182

Sample ID	Surrogate	Spike 1	Spike 2	Spike 3	Amt (1L)	Final KD: H2O bath temp 94.4 °C; Date & Volume	Relinq. Date
	X	X	X	X	By:	By: [illegible] 3/15/6	By: [illegible] 3/15/6
PWB1	X				1.0	10.0 ml	
PWL1 → Pat	X	X					
PWL2	X	X					
L-3 → Ano	X		X				
L-4	X		X				
DH005-4 P	X				1.05		
-5 S	X						
-6 P	X						
DH008-15 B	X						
DH009-2L	X						

3-13-06

- [ ] Completed ms/msd
- [X] Sample limited, no ms/msd, duplicate LCS

082

Comments:

Peer Review By:

Organic Extractions Dept.
CAS-Redding

Liquid-Liquid Extraction, 3520C

Pesticide/PCB Water

Date	3-29-06
Time	5:00

Batches: DH005, DH009

Client(s): Presidio

Analytical Method(s)

- [X] 8081A
- [X] 8082
- [ ] CLP
- [ ] TCLP,1311

Solvent Lots

DCM	45348 3/28-3/29
Acetone	—
Hexane	45320 2/1 3/25

Spikes

Surrogate: 13-EXS-91A-2
Amt. 1.0 ml Exp: 6/14/06

Spike 1: 13-EXS-94A
Amt. 1.0 ml Exp: 4/05/06

Spike 2: 13-EXS-95A
Amt. 1.0 ml Exp: 1/28/06

Spike 3: -EXS-
Amt. ml Exp:

Spiked by: [illegible] Witness: [illegible]

Cleanups

- [ ] GPC, 3640A — Calib: ; By/date: ; ID:
- *Initial KD* [ ] 1.0ml aliquot saved — By/date: ; vol: ml
- [ ] Florisil, 3620B — By/date: ; Lot:
- [ ] Sulfuric Acid, 3665A — By/date: ; Lot:
- [ ] Mercury, 3660B — By/date: ; Lot:
- [X] No cleanups

Test Code(s): 8021/8082

Sample ID	Surrogate	Spike 1	Spike 2	Spike 3	Amt (1L)	Final KD: H2O bath temp 90 °C; Date & Volume	Reling. Date
	X	X	X	X	By: JP	By: CLE 3/30/06	By: CLE
PWB1	X				1.0	10.0ml	3/30/06
PWL1 → Pest	X	X					
PWL2	X	X					
L-3 → Aro	X		X				
L-4	X		X				
DH005-4a	X				1.05		
↓ -6T	X				1.04		
DH009-2R	X						

3-29-06 JP

- [ ] Completed ms/msd
- [X] Sample limited, no ms/msd, duplicate LCS

092

Comments:

Peer Review By:

Organic Extractions Dept.
CAS-Redding

Columbia Analytical Services

Herb/Pest/PCB Injection Log
HP 5890
GC C

Date
3-20-06

Analyst: JB
Method: GB8082
Directory: C060320
Internal Standard: 22-GC-24B-1/2

Page: 57

Filename	Laboratory ID	F	Matrix	DL Factor	Reference Standard	Comments
C060320 01	PRIMER					
02	OIBLK 03/20		STD	1x	22-GC-34A	
03	WASH					
04	05T03 1231		STD	1x	22-GC-38A	
05	1232				-38B	
06	1242				-38C	
07	1248				-38D	
08	1254				-38E	
09	1268				-38F	
10	WASH					
11	05T03 1660		STD	1x	22-GC-36C	
12	2				-36D	
13	3				-36E	
14	4				-36F	
15	5				-36G	
16	6				-36H	
17	WASH					
18	PSB10315LCS		SOIL			
19	PSB10315					
20	D06000030-001	.01		1x		
21	-001MS			40x		
22	-001MSD			1x		
23	-001MSD					
24	WASH					
25	05T03 1660		STD	1x	22-GC-36E	

JB 3/21/06

Columbia Analytical Services

Herb/Pest/PCB Injection Log
HP 5890
GC C

Date
3-24-06

Analyst: dB
Method: GC8082

Directory: C060324
Internal Standard: 22-GC-246-1/2

Page: 63

Filename		Laboratory ID	F	Matrix	DL Factor	Reference Standard	Comments
C060324	01	PRIMER					
	02	OTBLK 03/24		STD	1x	22-GC-34A	
	03	OSTD3 1660		↓	↓	↓ -36E	
	04	WASH					
	05	PSB10323LCS		SOIL	1x		
	06	PSB10323					
	07	D0600059-001	.01				
	08	-002					
	09	-003					
	10	-003MS					
	11	-003MSD					
	12	-004					
	13	WASH					
	14	OSTD4 1660		STD	1x	22-GC-36F	
	15	WASH					
	16	PWB10313LCS		H_2O	1x		DCB 55
	17	↓ LCSD					DCB 62
	18	PWB10313					★
	19	BH005-004	P				DCB: 36 TCX: 62 ★
	20	-005	S				DCB: 40 ★
	21	-006	P				DCB: 17.8 TCX: 52 ★
	22	[illegible]	L				DCB: 14.5
	23	WASH					
	24	OSTD3 1660		STD	1x	22-GC-36E	
	25	WASH					

300

Columbia Analytical Services

Herb/Pest/PCB Injection Log
HP 5890
GC C

Date
3-31-06

Analyst: 463
Method: CB8082

Directory: C060331
Internal Standard: 22-6C-24B-1/2
22-6C-37A-1/2

Page: 68

Filename	Laboratory ID	F	Matrix	DL Factor	Reference Standard	Comments
C060331 01	PRINSE					
02	OIBLK 03/31		STD	1x	22-6C-34A	
03	[redacted]		↓	↓	-36E	
04	WASH					
05	[redacted]		H2O	1x		X
06	↓ [redacted]					X
07	[redacted]					X
08	[redacted]	Q				X
09	↓ [redacted]	T				X
10	DH009 -002RE	R				
11	[redacted]					X
12	↓ [redacted]					X
13	[redacted]	S	↓	↓		re-analyze
14	WASH					
15	[redacted]		STD	1x	22-6C-36F	
16	WASH					

Analysis Method:	SW8082	**Analyst:**	J. Beckett
Extraction Method:	SW3520	**Instrument:**	GCC
Matrix:	WATER	**Description:**	Combined MDL for Col.1 and Col. 2
MDL Effective Date:	11/5/2005	**Deptartment:**	GS

#	Compound	CAS No.	Date	MDL
1	AROCLOR-1016	12674-11-2	11/4/2005	0.24
2	AROCLOR-1221	11104-28-2	11/4/2005	0.22
3	AROCLOR-1232	11141-16-5	11/4/2005	0.20
4	AROCLOR-1242	53469-21-9	11/4/2005	0.043
5	AROCLOR-1248	12672-29-6	11/4/2005	0.12
6	AROCLOR-1254	11097-69-1	11/4/2005	0.063
7	AROCLOR-1260	11096-82-5	11/4/2005	0.081
8	AROCLOR-1268	11100-14-4	11/4/2005	0.028

UG/L	1	2	3	4	5	6	7	8
0.25	0.44	0.45		0.39	0.32	0.41	0.30	0.52
0.50	0.85	0.71	0.65	0.78	0.79	0.63	0.75	0.73
0.25	0.33	0.34	0.35	0.37	0.35	0.34	0.32	0.53
0.25	0.33	0.30	0.31	0.30	0.31	0.29	0.29	0.32
0.25	0.35	0.36		0.33	0.32	0.36	0.43	0.32
0.25	0.31	0.30	0.28	0.34	0.30	0.29	0.27	0.28
0.25	0.24	0.32	0.25	0.29	0.25	0.27	0.25	0.24
0.25	0.30	0.32	0.32	0.33	0.33	0.32	0.31	0.32

Mean	Std Dev
0.41	0.0769
0.74	0.0730
0.37	0.0671
0.31	0.0142
0.35	0.0374
0.30	0.0211
0.26	0.0270
0.32	0.0092

MDL Check	True Value	%Rec
0.17	0.13	128.00
0.42	0.25	169.60
0.18	0.13	142.00
0.17	0.13	127.69
0.20	0.13	150.62
0.14	0.13	109.08
0.16	0.13	119.31
0.18	0.13	140.00

The 3rd MDL replicate was not added to the study for Aroclor 1016 and 1248 as they failed the one-sided outlier test

GC ORGANOCHLORINE PESTICIDES

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: 03/07/2006
Date Received: 03/08/2006

ORGANOCHLORINE PESTICIDES

Sample Name: LF5GW104CL
Lab Code: DH005005
Extraction SW3520
Analysis Method: SW8081

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Endosulfan I	ND	U	0.050	1	03/13/2006	03/31/2006	PWB10313	
Methoxychlor	ND	U	0.50	1	03/13/2006	03/31/2006	PWB10313	
alpha-BHC	ND	U	0.050	1	03/13/2006	03/31/2006	PWB10313	
beta-BHC	ND	U	0.050	1	03/13/2006	03/31/2006	PWB10313	
gamma-BHC (Lindane)	ND	U	0.050	1	03/13/2006	03/31/2006	PWB10313	
delta-BHC	ND	U	0.050	1	03/13/2006	03/31/2006	PWB10313	
Heptachlor	ND	U	0.050	1	03/13/2006	03/31/2006	PWB10313	
Aldrin	ND	U	0.050	1	03/13/2006	03/31/2006	PWB10313	
Heptachlor epoxide	ND	U	0.050	1	03/13/2006	03/31/2006	PWB10313	
gamma-Chlordane	ND	U	0.50	1	03/13/2006	03/31/2006	PWB10313	
Toxaphene	ND	U	1.0	1	03/13/2006	03/31/2006	PWB10313	
alpha-Chlordane	ND	U	0.50	1	03/13/2006	03/31/2006	PWB10313	
4,4'-DDE	ND	U	0.10	1	03/13/2006	03/31/2006	PWB10313	
Dieldrin	ND	U	0.10	1	03/13/2006	03/31/2006	PWB10313	
Endrin	ND	U	0.10	1	03/13/2006	03/31/2006	PWB10313	
Endosulfan II	ND	U	0.10	1	03/13/2006	03/31/2006	PWB10313	
4,4'-DDD	ND	U	0.10	1	03/13/2006	03/31/2006	PWB10313	
Endosulfan sulfate	ND	U	0.10	1	03/13/2006	03/31/2006	PWB10313	
4,4'-DDT	ND	U	0.10	1	03/13/2006	03/31/2006	PWB10313	
Endrin ketone	ND	U	0.10	1	03/13/2006	03/31/2006	PWB10313	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	42	65-135	03/31/2006	*
Tetrachloro-m-xylene - SS	76	65-135	03/31/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: 03/07/2006
Date Received: 03/08/2006

ORGANOCHLORINE PESTICIDES

Sample Name: 1349MW102CL
Lab Code: DH005006
Extraction SW3520
Analysis Method: SW8081

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Endosulfan I	ND	U	0.050	1	03/13/2006	03/24/2006	PWB10313	
Methoxychlor	ND	U	0.50	1	03/13/2006	03/24/2006	PWB10313	
alpha-BHC	ND	U	0.050	1	03/13/2006	03/24/2006	PWB10313	
beta-BHC	ND	U	0.050	1	03/13/2006	03/24/2006	PWB10313	
gamma-BHC (Lindane)	ND	U	0.050	1	03/13/2006	03/24/2006	PWB10313	
delta-BHC	ND	U	0.050	1	03/13/2006	03/24/2006	PWB10313	
Heptachlor	ND	U	0.050	1	03/13/2006	03/24/2006	PWB10313	
Aldrin	ND	U	0.050	1	03/13/2006	03/24/2006	PWB10313	
Heptachlor epoxide	ND	U	0.050	1	03/13/2006	03/24/2006	PWB10313	
gamma-Chlordane	ND	U	0.50	1	03/13/2006	03/24/2006	PWB10313	
Toxaphene	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	
alpha-Chlordane	ND	U	0.50	1	03/13/2006	03/24/2006	PWB10313	
4,4'-DDE	ND	U	0.10	1	03/13/2006	03/24/2006	PWB10313	
Dieldrin	ND	U	0.10	1	03/13/2006	03/24/2006	PWB10313	
Endrin	ND	U	0.10	1	03/13/2006	03/24/2006	PWB10313	
Endosulfan II	ND	U	0.10	1	03/13/2006	03/24/2006	PWB10313	
4,4'-DDD	ND	U	0.10	1	03/13/2006	03/24/2006	PWB10313	
Endosulfan sulfate	ND	U	0.10	1	03/13/2006	03/24/2006	PWB10313	
4,4'-DDT	ND	U	0.10	1	03/13/2006	03/24/2006	PWB10313	
Endrin ketone	ND	U	0.10	1	03/13/2006	03/24/2006	PWB10313	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	28	65-135	03/24/2006	*
Tetrachloro-m-xylene - SS	54	65-135	03/24/2006	*

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: 03/07/2006
Date Received: 03/08/2006

ORGANOCHLORINE PESTICIDES

Sample Name: 1349MW102CLR
Lab Code: DH005006RE

Extraction SW3520
Analysis Method: SW8081

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Endosulfan I	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
Methoxychlor	ND	U	0.50	1	03/29/2006	03/31/2006	PWB10329	
alpha-BHC	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
beta-BHC	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
gamma-BHC (Lindane)	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
delta-BHC	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
Heptachlor	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
Aldrin	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
Heptachlor epoxide	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
gamma-Chlordane	ND	U	0.50	1	03/29/2006	03/31/2006	PWB10329	
Toxaphene	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
alpha-Chlordane	ND	U	0.50	1	03/29/2006	03/31/2006	PWB10329	
4,4'-DDE	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	
Dieldrin	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	
Endrin	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	
Endosulfan II	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	
4,4'-DDD	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	
Endosulfan sulfate	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	
4,4'-DDT	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	
Endrin ketone	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	36	65-135	03/31/2006	*
Tetrachloro-m-xylene - SS	56	65-135	03/31/2006	*

Comments: _____

QC Summary

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: NA
Date Received: NA

ORGANOCHLORINE PESTICIDES

Sample Name: Method Blank
Lab Code: PWB10313
Extraction SW3520
Analysis Method: SW8081

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Endosulfan I	ND	U	0.050	1	03/13/2006	03/19/2006	PWB10313	
Methoxychlor	ND	U	0.50	1	03/13/2006	03/19/2006	PWB10313	
alpha-BHC	ND	U	0.050	1	03/13/2006	03/19/2006	PWB10313	
beta-BHC	ND	U	0.050	1	03/13/2006	03/19/2006	PWB10313	
gamma-BHC (Lindane)	ND	U	0.050	1	03/13/2006	03/19/2006	PWB10313	
delta-BHC	ND	U	0.050	1	03/13/2006	03/19/2006	PWB10313	
Heptachlor	ND	U	0.050	1	03/13/2006	03/19/2006	PWB10313	
Aldrin	ND	U	0.050	1	03/13/2006	03/19/2006	PWB10313	
Heptachlor epoxide	ND	U	0.050	1	03/13/2006	03/19/2006	PWB10313	
gamma-Chlordane	ND	U	0.50	1	03/13/2006	03/19/2006	PWB10313	
Toxaphene	ND	U	1.0	1	03/13/2006	03/19/2006	PWB10313	
alpha-Chlordane	ND	U	0.50	1	03/13/2006	03/19/2006	PWB10313	
4,4'-DDE	ND	U	0.10	1	03/13/2006	03/19/2006	PWB10313	
Dieldrin	ND	U	0.10	1	03/13/2006	03/19/2006	PWB10313	
Endrin	ND	U	0.10	1	03/13/2006	03/19/2006	PWB10313	
Endosulfan II	ND	U	0.10	1	03/13/2006	03/19/2006	PWB10313	
4,4'-DDD	ND	U	0.10	1	03/13/2006	03/19/2006	PWB10313	
Endosulfan sulfate	ND	U	0.10	1	03/13/2006	03/19/2006	PWB10313	
4,4'-DDT	ND	U	0.10	1	03/13/2006	03/19/2006	PWB10313	
Endrin ketone	ND	U	0.10	1	03/13/2006	03/19/2006	PWB10313	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	78	65-135	03/19/2006	
Tetrachloro-m-xylene - SS	88	65-135	03/19/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: NA
Date Received: NA

ORGANOCHLORINE PESTICIDES

Sample Name: Method Blank
Lab Code: PWB10329

Extraction SW3520
Analysis Method: SW8081

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Endosulfan I	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
Methoxychlor	ND	U	0.50	1	03/29/2006	03/31/2006	PWB10329	
alpha-BHC	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
beta-BHC	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
gamma-BHC (Lindane)	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
delta-BHC	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
Heptachlor	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
Aldrin	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
Heptachlor epoxide	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
gamma-Chlordane	ND	U	0.50	1	03/29/2006	03/31/2006	PWB10329	
Toxaphene	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
alpha-Chlordane	ND	U	0.50	1	03/29/2006	03/31/2006	PWB10329	
4,4'-DDE	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	
Dieldrin	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	
Endrin	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	
Endosulfan II	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	
4,4'-DDD	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	
Endosulfan sulfate	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	
4,4'-DDT	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	
Endrin ketone	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	86	65-135	03/31/2006	
Tetrachloro-m-xylene - SS	92	65-135	03/31/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005

Surrogate Recovery Summary
ORGANOCHLORINE PESTICIDES

Prep Method: SW3520
Analysis Method: SW8081

Units: Percent

Sample Name	Lab Code	Q	S1	S2
Laboratory Control Sample	PWB10313LCS		85	90
Laboratory Control Sample Duplicate	PWB10313LCSD		77	77
Method Blank	PWB10313		78	88
1349MW102CL	DH005006	*	28	54
Laboratory Control Sample	PWB10329LCS	*	59	88
Laboratory Control Sample Duplicate	PWB10329LCSD	*	45	81
Method Blank	PWB10329		86	92
1349MW102CLR	DH005006RE	*	36	56
LF5GW104CL	DH005005	*	42	76

Surrogate Recovery Control Limits (%)

S1:	Decachlorobiphenyl - SS	65-135
S2:	Tetrachloro-m-xylene - SS	65-135

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	03/13/2006
		Date Analyzed:	03/19/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
ORGANOCHLORINE PESTICIDES

LCS Sample	Lab Control Sample	**DMS Sample**	Lab Control Sample Duplicate
Lab Code:	PWB10313LCS	**Units:**	ug/L (ppb)
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Endosulfan I	SW3520	SW8081	0.050	0.5000	0.5561	0.4761	111	95	65-135	16	
Endrin ketone	SW3520	SW8081	0.10	0.5000	0.5902	0.5267	118	105	65-135	11	
alpha-BHC	SW3520	SW8081	0.050	0.5000	0.5753	0.4878	115	98	65-135	16	
beta-BHC	SW3520	SW8081	0.050	0.5000	0.5508	0.4798	110	96	65-135	14	
gamma-BHC (Lindane)	SW3520	SW8081	0.050	0.5000	0.5691	0.4843	114	97	65-135	16	
delta-BHC	SW3520	SW8081	0.050	0.5000	0.6130	0.5145	123	103	65-135	17	
Heptachlor	SW3520	SW8081	0.050	0.5000	0.4967	0.4416	99	88	65-135	12	
Aldrin	SW3520	SW8081	0.050	0.5000	0.5231	0.4416	105	88	65-135	17	
Heptachlor epoxide	SW3520	SW8081	0.050	0.5000	0.5455	0.4600	109	92	65-135	17	
gamma-Chlordane	SW3520	SW8081	0.50	0.5000	0.5474	0.4630	109	93	65-135	17	
Methoxychlor	SW3520	SW8081	0.50	0.5000	0.5610	0.4893	112	98	65-135	14	
alpha-Chlordane	SW3520	SW8081	0.50	0.5000	0.5593	0.4738	112	95	65-135	16	
4,4'-DDE	SW3520	SW8081	0.10	0.5000	0.5389	0.4612	108	92	65-135	16	
Dieldrin	SW3520	SW8081	0.10	0.5000	0.5494	0.4654	110	93	65-135	16	
Endrin	SW3520	SW8081	0.10	0.5000	0.5462	0.4710	109	94	65-135	15	
Endosulfan II	SW3520	SW8081	0.10	0.5000	0.5009	0.4382	100	88	65-135	13	
4,4'-DDD	SW3520	SW8081	0.10	0.5000	0.5170	0.4528	103	90	65-135	13	
Endosulfan sulfate	SW3520	SW8081	0.10	0.5000	0.5488	0.4883	110	98	65-135	12	
4,4'-DDT	SW3520	SW8081	0.10	0.5000	0.5544	0.4873	111	97	65-135	13	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	03/29/2006
		Date Analyzed:	03/31/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
ORGANOCHLORINE PESTICIDES

LCS Sample	Lab Control Sample	**DMS Sample**	Lab Control Sample Duplicate
Lab Code:	PWB10329LCS	**Units:**	ug/L (ppb)
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Endosulfan I	SW3520	SW8081	0.050	0.5000	0.4556	0.4056	91	81	65-135	12	
Endrin ketone	SW3520	SW8081	0.10	0.5000	0.5364	0.5265	107	105	65-135	2	
alpha-BHC	SW3520	SW8081	0.050	0.5000	0.4838	0.4551	97	91	65-135	6	
beta-BHC	SW3520	SW8081	0.050	0.5000	0.5382	0.5028	108	100	65-135	7	
gamma-BHC (Lindane)	SW3520	SW8081	0.050	0.5000	0.5363	0.5005	107	100	65-135	7	
delta-BHC	SW3520	SW8081	0.050	0.5000	0.5480	0.5157	110	103	65-135	6	
Heptachlor	SW3520	SW8081	0.050	0.5000	0.4812	0.4553	96	91	65-135	6	
Aldrin	SW3520	SW8081	0.050	0.5000	0.5398	0.5123	108	102	65-135	5	
Heptachlor epoxide	SW3520	SW8081	0.050	0.5000	0.5042	0.4629	101	92	65-135	8	
gamma-Chlordane	SW3520	SW8081	0.50	0.5000	0.4998	0.4784	100	96	65-135	4	
Methoxychlor	SW3520	SW8081	0.50	0.5000	0.5332	0.5069	107	101	65-135	5	
alpha-Chlordane	SW3520	SW8081	0.50	0.5000	0.4754	0.4535	95	91	65-135	5	
4,4'-DDE	SW3520	SW8081	0.10	0.5000	0.4684	0.4513	94	90	65-135	4	
Dieldrin	SW3520	SW8081	0.10	0.5000	0.4584	0.4728	92	94	65-135	3	
Endrin	SW3520	SW8081	0.10	0.5000	0.5103	0.4775	102	96	65-135	7	
Endosulfan II	SW3520	SW8081	0.10	0.5000	0.4616	0.4311	92	86	65-135	7	
4,4'-DDD	SW3520	SW8081	0.10	0.5000	0.4821	0.4505	96	90	65-135	7	
Endosulfan sulfate	SW3520	SW8081	0.10	0.5000	0.5308	0.4920	106	98	65-135	8	
4,4'-DDT	SW3520	SW8081	0.10	0.5000	0.4707	0.4685	94	94	65-135	0	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Extracted:**	03/13/2006
Sample Matrix:	Water	**Date Analyzed:**	03/19/2006
		Time Analyzed:	23:39

Method Blank Summary
ORGANOCHLORINE PESTICIDES

Extaction Method:	SW3520	**Extraction Lot:**	PWB10313
Analysis Method:	SW8081	**Level:**	

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	PWB10313LCS		03/19/2006	21:55
Laboratory Control Sample Duplicate	PWB10313LCSD		03/19/2006	22:47
1349MW102CL	DH005006		03/24/2006	14:55
LF5GW104CL	DH005005		03/31/2006	08:07

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Extracted:**	03/29/2006
Sample Matrix:	Water	**Date Analyzed:**	03/31/2006
		Time Analyzed:	:

Method Blank Summary
ORGANOCHLORINE PESTICIDES

Extaction Method:	SW3520	**Extraction Lot:**	PWB10329
Analysis Method:	SW8081	**Level:**	

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	PWB10329LCS		03/31/2006	02:57
Laboratory Control Sample Duplicate	PWB10329LCSD		03/31/2006	03:49
1349MW102CLR	DH005006RE		03/31/2006	06:24

Standards data

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/13/2006

Initial Calibration Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/13/2006GCD
Instrument ID: GCD

Column: DB5

Level ID	File ID
A	D0313004
B	D0313005
C	D0313006
D	D0313007
E	D0313008

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Toxaphene	A	0.100	0.019	B	0.250	0.019	C	0.500	0.018	D	0.750	0.016	E	1.000	0.015

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/13/2006

Initial Calibration Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/13/2006GCD
Instrument ID: GCD
Mean RSD: 9.10

Column: DB5

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
Toxaphene	TRG	AverageRF	% RSD	9.1		20.0

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/14/2006

Initial Calibration Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/14/2006GCD
Instrument ID: GCD

Column: DB5

Level ID	File ID
A	D0313011
B	D0313012
C	D0313013
D	D0313014
E	D0313015

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Endosulfan I	A	0.002	1.321	B	0.015	0.929	C	0.050	0.893	D	0.075	0.914	E	0.100	0.896
Endrin ketone	A	0.002	1.097	B	0.015	0.911	C	0.050	0.826	D	0.075	0.825	E	0.100	0.845
4,4'-DDT	A	0.002	0.978	B	0.015	0.796	C	0.050	0.721	D	0.075	0.743	E	0.100	0.734
alpha-BHC	A	0.002	2.379	B	0.015	1.774	C	0.050	1.575	D	0.075	1.559	E	0.100	1.553
beta-BHC	A	0.002	0.590	B	0.015	0.544	C	0.050	0.488	D	0.075	0.481	E	0.100	0.470
gamma-BHC (Lindane)	A	0.002	1.646	B	0.015	1.501	C	0.050	1.420	D	0.075	1.419	E	0.100	1.387
delta-BHC	A	0.002	1.535	B	0.015	1.389	C	0.050	1.347	D	0.075	1.359	E	0.100	1.337
Heptachlor	A	0.002	1.831	B	0.015	1.463	C	0.050	1.358	D	0.075	1.374	E	0.100	1.332
Aldrin	A	0.002	1.452	B	0.015	1.302	C	0.050	1.241	D	0.075	1.242	E	0.100	1.240
Heptachlor epoxide	A	0.002	1.292	B	0.015	1.068	C	0.050	1.032	D	0.075	1.039	E	0.100	1.055
gamma-Chlordane	A	0.002	1.249	B	0.015	1.113	C	0.050	1.054	D	0.075	1.059	E	0.100	1.021
Methoxychlor	A	0.002	0.448	B	0.015	0.401	C	0.050	0.356	D	0.075	0.358	E	0.100	0.359
alpha-Chlordane	A	0.002	1.353	B	0.015	1.118	C	0.050	1.015	D	0.075	1.049	E	0.100	0.977
4,4'-DDE	A	0.002	1.213	B	0.015	0.973	C	0.050	0.863	D	0.075	0.865	E	0.100	0.867
Dieldrin	A	0.002	1.440	B	0.015	1.119	C	0.050	1.119	D	0.075	1.137	E	0.100	1.116
Endrin	A	0.002	1.135	B	0.015	1.012	C	0.050	0.928	D	0.075	0.905	E	0.100	0.927
Endosulfan II	A	0.002	1.093	B	0.015	0.893	C	0.050	0.830	D	0.075	0.772	E	0.100	0.825
4,4'-DDD	A	0.002	0.930	B	0.015	0.756	C	0.050	0.751	D	0.075	0.662	E	0.100	0.753
Endrin aldehyde	A	0.002	0.762	B	0.015	0.655	C	0.050	0.586	D	0.075	0.585	E	0.100	0.590
Endosulfan sulfate	A	0.002	0.964	B	0.015	0.808	C	0.050	0.678	D	0.075	0.690	E	0.100	0.677
Tetrachloro-m-xylene	A	0.004	1.099	B	0.030	0.856	C	0.100	0.769	D	0.150	0.795	E	0.200	0.762
Decachlorobiphenyl - SS	A	0.004	1.241	B	0.030	0.846	C	0.100	0.731	D	0.150	0.735	E	0.200	0.730

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/14/2006

Initial Calibration Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/14/2006GCD
Instrument ID: GCD
Mean RSD: 12.19

Column: DB5

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
Endosulfan I	TRG	Linear	r	1.000		0.995
Endrin ketone	TRG	Linear	r	1.000		0.995
4,4'-DDT	TRG	Linear	r	1.000		0.995
alpha-BHC	TRG	Linear	r	1.000		0.995
beta-BHC	TRG	AverageRF	% RSD	9.9		20.0
gamma-BHC (Lindane)	TRG	AverageRF	% RSD	7.1		20.0
delta-BHC	TRG	AverageRF	% RSD	5.8		20.0
Heptachlor	TRG	AverageRF	% RSD	14.0		20.0
Aldrin	TRG	AverageRF	% RSD	7.0		20.0
Heptachlor epoxide	TRG	AverageRF	% RSD	10.0		20.0
gamma-Chlordane	TRG	AverageRF	% RSD	8.2		20.0
Methoxychlor	TRG	Linear	r	1.000		0.995
alpha-Chlordane	TRG	AverageRF	% RSD	13.6		20.0
4,4'-DDE	TRG	AverageRF	% RSD	15.8		20.0
Dieldrin	TRG	AverageRF	% RSD	12.0		20.0
Endrin	TRG	AverageRF	% RSD	9.7		20.0
Endosulfan II	TRG	AverageRF	% RSD	14.2		20.0
4,4'-DDD	TRG	AverageRF	% RSD	12.7		20.0
Endrin aldehyde	TRG	AverageRF	% RSD	12.1		20.0
Endosulfan sulfate	TRG	AverageRF	% RSD	16.3		20.0
Tetrachloro-m-xylene	SUR	AverageRF	% RSD	16.4		20.0
Decachlorobiphenyl - SS	SUR	Linear	r	1.000		0.995

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/29/2006

Initial Calibration Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/29/2006GCD
Instrument ID: GCD

Column: DB5

Level ID	File ID
A	D0328014
B	D0328015
C	D0328016
D	D0328017
E	D0328018

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Toxaphene	A	0.100	0.016	B	0.250	0.015	C	0.500	0.016	D	0.750	0.016	E	1.000	0.015

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/29/2006

Initial Calibration Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/29/2006GCD
Instrument ID: GCD
Mean RSD: 8.16

Column: DB5

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
Toxaphene	TRG	AverageRF	% RSD	7.3		20.0

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/29/2006

Initial Calibration Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/29/2006GCD
Instrument ID: GCD

Column: DB5

Level ID	File ID
A	D0328014
B	D0328015
C	D0328016
D	D0328017
E	D0328018

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Endosulfan I	A	0.002	1.059	B	0.015	1.042	C	0.050	0.930	D	0.075	0.890	E	0.100	0.923
Endrin ketone	A	0.002	0.945	B	0.015	0.837	C	0.050	0.779	D	0.075	0.808	E	0.100	0.810
4,4'-DDT	A	0.002	1.278	B	0.015	0.807	C	0.050	0.774	D	0.075	0.773	E	0.100	0.764
alpha-BHC	A	0.002	1.920	B	0.015	1.634	C	0.050	1.562	D	0.075	1.566	E	0.100	1.563
beta-BHC	A	0.002	0.484	B	0.015	0.436	C	0.050	0.453	D	0.075	0.450	E	0.100	0.445
gamma-BHC (Lindane)	A	0.002	1.361	B	0.015	1.351	C	0.050	1.419	D	0.075	1.422	E	0.100	1.431
delta-BHC	A	0.002	1.408	B	0.015	1.278	C	0.050	1.282	D	0.075	1.334	E	0.100	1.339
Heptachlor	A	0.002	1.494	B	0.015	1.390	C	0.050	1.387	D	0.075	1.396	E	0.100	1.397
Aldrin	A	0.002	1.364	B	0.015	1.260	C	0.050	1.223	D	0.075	1.262	E	0.100	1.282
Heptachlor epoxide	A	0.002	1.111	B	0.015	1.123	C	0.050	1.082	D	0.075	1.104	E	0.100	1.108
gamma-Chlordane	A	0.002	1.173	B	0.015	1.044	C	0.050	1.038	D	0.075	1.045	E	0.100	1.066
Methoxychlor	A	0.002	0.309	B	0.015	0.360	C	0.050	0.342	D	0.075	0.347	E	0.100	0.344
alpha-Chlordane	A	0.002	1.342	B	0.015	1.079	C	0.050	1.059	D	0.075	1.095	E	0.100	1.022
4,4'-DDE	A	0.002	1.099	B	0.015	0.950	C	0.050	0.879	D	0.075	0.895	E	0.100	0.936
Dieldrin	A	0.002	1.274	B	0.015	1.120	C	0.050	1.052	D	0.075	1.082	E	0.100	1.146
Endrin	A	0.002	1.011	B	0.015	0.994	C	0.050	0.982	D	0.075	0.999	E	0.100	0.994
Endosulfan II	A	0.002	0.927	B	0.015	0.853	C	0.050	0.840	D	0.075	0.865	E	0.100	0.861
4,4'-DDD	A	0.002	0.768	B	0.015	0.725	C	0.050	0.740	D	0.075	0.774	E	0.100	0.774
Endrin aldehyde	A	0.002	0.596	B	0.015	0.608	C	0.050	0.550	D	0.075	0.587	E	0.100	0.583
Endosulfan sulfate	A	0.002	1.596	B	0.015	0.830	C	0.050	0.678	D	0.075	0.704	E	0.100	0.692
Tetrachloro-m-xylene	A	0.004	0.951	B	0.030	0.807	C	0.100	0.751	D	0.150	0.775	E	0.200	0.772
Decachlorobiphenyl - SS	A	0.004	0.975	B	0.030	0.755	C	0.100	0.686	D	0.150	0.699	E	0.200	0.697

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/29/2006

Initial Calibration Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/29/2006GCD
Instrument ID: GCD
Mean RSD: 8.16

Column: DB5

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
Endosulfan I	TRG	AverageRF	% RSD	7.9		20.0
Endrin ketone	TRG	AverageRF	% RSD	7.7		20.0
4,4'-DDT	TRG	Linear	r	1.000		0.995
alpha-BHC	TRG	AverageRF	% RSD	9.4		20.0
beta-BHC	TRG	AverageRF	% RSD	4.0		20.0
gamma-BHC (Lindane)	TRG	AverageRF	% RSD	2.7		20.0
delta-BHC	TRG	AverageRF	% RSD	4.0		20.0
Heptachlor	TRG	AverageRF	% RSD	3.2		20.0
Aldrin	TRG	AverageRF	% RSD	4.1		20.0
Heptachlor epoxide	TRG	AverageRF	% RSD	1.4		20.0
gamma-Chlordane	TRG	AverageRF	% RSD	5.3		20.0
Methoxychlor	TRG	AverageRF	% RSD	5.5		20.0
alpha-Chlordane	TRG	AverageRF	% RSD	11.4		20.0
4,4'-DDE	TRG	AverageRF	% RSD	9.1		20.0
Dieldrin	TRG	AverageRF	% RSD	7.5		20.0
Endrin	TRG	AverageRF	% RSD	1.1		20.0
Endosulfan II	TRG	AverageRF	% RSD	3.9		20.0
4,4'-DDD	TRG	AverageRF	% RSD	3.0		20.0
Endrin aldehyde	TRG	AverageRF	% RSD	3.7		20.0
Endosulfan sulfate	TRG	Linear	r	1.000		0.995
Tetrachloro-m-xylene	SUR	AverageRF	% RSD	9.9		20.0
Decachlorobiphenyl - SS	SUR	AverageRF	% RSD	16.0		20.0

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/13/2006

Second Source Calibration Verification
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/13/2006GCD
Instrument ID: GCD
File ID: D0313009

Column: DB5

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Toxaphene	0.500	0.495	0.000	0.000	-1.07	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/14/2006

Second Source Calibration Verification
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/14/2006GCD
Instrument ID: GCD
File ID: D0313016

Column: DB5

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Endosulfan I	0.050	0.052	0.052	0.050	NA	3.8	+/- 15.0	Linear	
Endrin ketone	0.050	0.058	0.058	0.050	NA	15.8	+/- 15.0	Linear	
4,4'-DDT	0.050	0.054	0.054	0.050	NA	8.5	+/- 15.0	Linear	
alpha-BHC	0.050	0.054	0.054	0.050	NA	8.2	+/- 15.0	Linear	
beta-BHC	0.050	0.053	0.514	0.547	6.30	NA	+/- 15.0	AverageRF	
gamma-BHC (Lindane)	0.050	0.053	1.475	1.556	5.50	NA	+/- 15.0	AverageRF	
delta-BHC	0.050	0.055	1.393	1.524	9.40	NA	+/- 15.0	AverageRF	
Heptachlor	0.050	0.049	1.472	1.447	-1.70	NA	+/- 15.0	AverageRF	
Aldrin	0.050	0.051	1.296	1.332	2.80	NA	+/- 15.0	AverageRF	
Heptachlor epoxide	0.050	0.051	1.097	1.118	1.90	NA	+/- 15.0	AverageRF	
gamma-Chlordane	0.050	0.053	1.099	1.172	6.60	NA	+/- 15.0	AverageRF	
Methoxychlor	0.050	0.057	0.057	0.050	NA	13.7	+/- 15.0	Linear	
alpha-Chlordane	0.050	0.051	1.102	1.133	2.80	NA	+/- 15.0	AverageRF	
4,4'-DDE	0.050	0.050	0.956	0.956	0.00	NA	+/- 15.0	AverageRF	
Dieldrin	0.050	0.050	1.186	1.192	0.40	NA	+/- 15.0	AverageRF	
Endrin	0.050	0.052	0.981	1.029	4.80	NA	+/- 15.0	AverageRF	
Endosulfan II	0.050	0.051	0.883	0.904	2.40	NA	+/- 15.0	AverageRF	
4,4'-DDD	0.050	0.052	0.770	0.806	4.60	NA	+/- 15.0	AverageRF	
Endrin aldehyde	0.050	0.050	0.636	0.640	0.60	NA	+/- 15.0	AverageRF	
Endosulfan sulfate	0.050	0.052	0.764	0.798	4.60	NA	+/- 15.0	AverageRF	
Tetrachloro-m-xylene	0.100	0.096	0.856	0.827	-3.50	NA	+/- 15.0	AverageRF	
Decachlorobiphenyl - SS	0.100	0.107	0.107	0.100	NA	7.1	+/- 15.0	Linear	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/29/2006

Second Source Calibration Verification
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/29/2006GCD
Instrument ID: GCD
File ID: D0328012

Column: DB5

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Toxaphene	0.500	0.498	0.000	0.000	-0.43	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/29/2006

Second Source Calibration Verification
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/29/2006GCD
Instrument ID: GCD
File ID: D0328021

Column: DB5

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Endosulfan I	0.050	0.049	0.969	0.946	-2.30	NA	+/- 15.0	AverageRF	
Endrin ketone	0.050	0.054	0.836	0.904	8.20	NA	+/- 15.0	AverageRF	
4,4'-DDT	0.050	0.053	0.053	0.050	NA	5.9	+/- 15.0	Linear	
alpha-BHC	0.050	0.052	1.649	1.700	3.10	NA	+/- 15.0	AverageRF	
beta-BHC	0.050	0.056	0.454	0.505	11.40	NA	+/- 15.0	AverageRF	
gamma-BHC (Lindane)	0.050	0.055	1.397	1.537	10.00	NA	+/- 15.0	AverageRF	
delta-BHC	0.050	0.057	1.328	1.522	14.60	NA	+/- 15.0	AverageRF	
Heptachlor	0.050	0.050	1.413	1.427	1.00	NA	+/- 15.0	AverageRF	
Aldrin	0.050	0.052	1.278	1.325	3.60	NA	+/- 15.0	AverageRF	
Heptachlor epoxide	0.050	0.052	1.106	1.159	4.80	NA	+/- 15.0	AverageRF	
gamma-Chlordane	0.050	0.052	1.073	1.116	4.00	NA	+/- 15.0	AverageRF	
Methoxychlor	0.050	0.057	0.341	0.388	13.80	NA	+/- 15.0	AverageRF	
alpha-Chlordane	0.050	0.053	1.119	1.184	5.70	NA	+/- 15.0	AverageRF	
4,4'-DDE	0.050	0.052	0.952	0.985	3.50	NA	+/- 15.0	AverageRF	
Dieldrin	0.050	0.049	1.135	1.114	-1.80	NA	+/- 15.0	AverageRF	
Endrin	0.050	0.054	0.996	1.076	8.10	NA	+/- 15.0	AverageRF	
Endosulfan II	0.050	0.052	0.869	0.902	3.80	NA	+/- 15.0	AverageRF	
4,4'-DDD	0.050	0.050	0.756	0.756	0.00	NA	+/- 15.0	AverageRF	
Endrin aldehyde	0.050	0.053	0.585	0.620	5.90	NA	+/- 15.0	AverageRF	
Endosulfan sulfate	0.050	0.053	0.053	0.050	NA	6.5	+/- 15.0	Linear	
Tetrachloro-m-xylene	0.100	0.101	0.811	0.817	0.70	NA	+/- 15.0	AverageRF	
Decachlorobiphenyl - SS	0.100	0.098	0.762	0.744	-2.50	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/19/2006

Continuing Calibration Verification Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/13/2006GCD
Instrument ID: GCD
File ID: D0319012

Column: DB5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Toxaphene	0.750	0.717	0.000	0.000	-4.43	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/19/2006

Continuing Calibration Verification Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/14/2006GCD
Instrument ID: GCD
File ID: D0319013

Column: DB5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Endosulfan I	0.075	0.068	0.068	0.075	NA	-9.8	+/- 15.0	Linear	
Endrin ketone	0.075	0.074	0.074	0.075	NA	-0.8	+/- 15.0	Linear	
4,4'-DDT	0.075	0.071	0.071	0.075	NA	-5.4	+/- 15.0	Linear	
alpha-BHC	0.075	0.075	0.075	0.075	NA	0.0	+/- 15.0	Linear	
beta-BHC	0.075	0.069	0.514	0.476	-7.50	NA	+/- 15.0	AverageRF	
gamma-BHC (Lindane)	0.075	0.072	1.475	1.415	-4.00	NA	+/- 15.0	AverageRF	
delta-BHC	0.075	0.072	1.393	1.343	-3.60	NA	+/- 15.0	AverageRF	
Heptachlor	0.075	0.068	1.472	1.340	-8.90	NA	+/- 15.0	AverageRF	
Aldrin	0.075	0.070	1.296	1.213	-6.40	NA	+/- 15.0	AverageRF	
Heptachlor epoxide	0.075	0.072	1.097	1.056	-3.80	NA	+/- 15.0	AverageRF	
gamma-Chlordane	0.075	0.069	1.099	1.007	-8.40	NA	+/- 15.0	AverageRF	
Methoxychlor	0.075	0.072	0.072	0.075	NA	-4.0	+/- 15.0	Linear	
alpha-Chlordane	0.075	0.071	1.102	1.043	-5.40	NA	+/- 15.0	AverageRF	
4,4'-DDE	0.075	0.069	0.956	0.882	-7.80	NA	+/- 15.0	AverageRF	
Dieldrin	0.075	0.073	1.186	1.150	-3.00	NA	+/- 15.0	AverageRF	
Endrin	0.075	0.071	0.981	0.924	-5.80	NA	+/- 15.0	AverageRF	
Endosulfan II	0.075	0.067	0.883	0.793	-10.10	NA	+/- 15.0	AverageRF	
4,4'-DDD	0.075	0.068	0.770	0.699	-9.20	NA	+/- 15.0	AverageRF	
Endrin aldehyde	0.075	0.070	0.636	0.590	-7.30	NA	+/- 15.0	AverageRF	
Endosulfan sulfate	0.075	0.070	0.764	0.713	-6.60	NA	+/- 15.0	AverageRF	
Tetrachloro-m-xylene	0.150	0.140	0.856	0.799	-6.70	NA	+/- 15.0	AverageRF	
Decachlorobiphenyl - SS	0.150	0.148	0.148	0.150	NA	-1.1	+/- 15.0	Linear	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/20/2006

Continuing Calibration Verification Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/13/2006GCD
Instrument ID: GCD
File ID: D0319026

Column: DB5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Toxaphene	0.500	0.484	0.000	0.000	-3.30	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/20/2006

Continuing Calibration Verification Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/14/2006GCD
Instrument ID: GCD
File ID: D0319027

Column: DB5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Endosulfan I	0.050	0.045	0.045	0.050	NA	-9.5	+/- 15.0	Linear	
Endrin ketone	0.050	0.049	0.049	0.050	NA	-2.4	+/- 15.0	Linear	
4,4'-DDT	0.050	0.049	0.049	0.050	NA	-2.7	+/- 15.0	Linear	
alpha-BHC	0.050	0.050	0.050	0.050	NA	-0.2	+/- 15.0	Linear	
beta-BHC	0.050	0.048	0.514	0.489	-4.90	NA	+/- 15.0	AverageRF	
gamma-BHC (Lindane)	0.050	0.048	1.475	1.422	-3.60	NA	+/- 15.0	AverageRF	
delta-BHC	0.050	0.049	1.393	1.365	-2.00	NA	+/- 15.0	AverageRF	
Heptachlor	0.050	0.045	1.472	1.323	-10.10	NA	+/- 15.0	AverageRF	
Aldrin	0.050	0.046	1.296	1.195	-7.70	NA	+/- 15.0	AverageRF	
Heptachlor epoxide	0.050	0.045	1.097	0.994	-9.40	NA	+/- 15.0	AverageRF	
gamma-Chlordane	0.050	0.050	1.099	1.096	-0.30	NA	+/- 15.0	AverageRF	
Methoxychlor	0.050	0.049	0.049	0.050	NA	-2.6	+/- 15.0	Linear	
alpha-Chlordane	0.050	0.047	1.102	1.045	-5.20	NA	+/- 15.0	AverageRF	
4,4'-DDE	0.050	0.046	0.956	0.891	-6.80	NA	+/- 15.0	AverageRF	
Dieldrin	0.050	0.047	1.186	1.123	-5.30	NA	+/- 15.0	AverageRF	
Endrin	0.050	0.047	0.981	0.924	-5.80	NA	+/- 15.0	AverageRF	
Endosulfan II	0.050	0.045	0.883	0.793	-10.20	NA	+/- 15.0	AverageRF	
4,4'-DDD	0.050	0.045	0.770	0.688	-10.60	NA	+/- 15.0	AverageRF	
Endrin aldehyde	0.050	0.045	0.636	0.570	-10.30	NA	+/- 15.0	AverageRF	
Endosulfan sulfate	0.050	0.045	0.764	0.692	-9.30	NA	+/- 15.0	AverageRF	
Tetrachloro-m-xylene	0.100	0.087	0.856	0.743	-13.20	NA	+/- 15.0	AverageRF	
Decachlorobiphenyl - SS	0.100	0.099	0.099	0.100	NA	-0.7	+/- 15.0	Linear	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/24/2006

Continuing Calibration Verification Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/13/2006GCD
Instrument ID: GCD
File ID: D0324003

Column: DB5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Toxaphene	0.500	0.526	0.000	0.000	5.27	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/24/2006

Continuing Calibration Verification Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/14/2006GCD
Instrument ID: GCD
File ID: D0324004

Column: DB5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Endosulfan I	0.050	0.046	0.046	0.050	NA	-8.2	+/- 15.0	Linear	
Endrin ketone	0.050	0.049	0.049	0.050	NA	-1.7	+/- 15.0	Linear	
4,4'-DDT	0.050	0.050	0.050	0.050	NA	-0.6	+/- 15.0	Linear	
alpha-BHC	0.050	0.049	0.049	0.050	NA	-1.0	+/- 15.0	Linear	
beta-BHC	0.050	0.047	0.514	0.484	-6.00	NA	+/- 15.0	AverageRF	
gamma-BHC (Lindane)	0.050	0.048	1.475	1.414	-4.10	NA	+/- 15.0	AverageRF	
delta-BHC	0.050	0.049	1.393	1.362	-2.30	NA	+/- 15.0	AverageRF	
Heptachlor	0.050	0.046	1.472	1.347	-8.50	NA	+/- 15.0	AverageRF	
Aldrin	0.050	0.047	1.296	1.209	-6.60	NA	+/- 15.0	AverageRF	
Heptachlor epoxide	0.050	0.048	1.097	1.044	-4.90	NA	+/- 15.0	AverageRF	
gamma-Chlordane	0.050	0.049	1.099	1.080	-1.70	NA	+/- 15.0	AverageRF	
Methoxychlor	0.050	0.050	0.050	0.050	NA	0.5	+/- 15.0	Linear	
alpha-Chlordane	0.050	0.049	1.102	1.075	-2.50	NA	+/- 15.0	AverageRF	
4,4'-DDE	0.050	0.046	0.956	0.886	-7.40	NA	+/- 15.0	AverageRF	
Dieldrin	0.050	0.047	1.186	1.114	-6.10	NA	+/- 15.0	AverageRF	
Endrin	0.050	0.048	0.981	0.947	-3.50	NA	+/- 15.0	AverageRF	
Endosulfan II	0.050	0.047	0.883	0.828	-6.20	NA	+/- 15.0	AverageRF	
4,4'-DDD	0.050	0.049	0.770	0.759	-1.50	NA	+/- 15.0	AverageRF	
Endrin aldehyde	0.050	0.046	0.636	0.584	-8.20	NA	+/- 15.0	AverageRF	
Endosulfan sulfate	0.050	0.045	0.764	0.694	-9.10	NA	+/- 15.0	AverageRF	
Tetrachloro-m-xylene	0.100	0.088	0.856	0.758	-11.40	NA	+/- 15.0	AverageRF	
Decachlorobiphenyl - SS	0.100	0.100	0.100	0.100	NA	0.2	+/- 15.0	Linear	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/24/2006

Continuing Calibration Verification Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/13/2006GCD
Instrument ID: GCD
File ID: D0324012

Column: DB5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Toxaphene	0.750	0.688	0.000	0.000	-8.23	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/24/2006

Continuing Calibration Verification Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/14/2006GCD
Instrument ID: GCD
File ID: D0324013

Column: DB5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Endosulfan I	0.075	0.072	0.072	0.075	NA	-3.7	+/- 15.0	Linear	
Endrin ketone	0.075	0.074	0.074	0.075	NA	-1.5	+/- 15.0	Linear	
4,4'-DDT	0.075	0.074	0.074	0.075	NA	-1.8	+/- 15.0	Linear	
alpha-BHC	0.075	0.076	0.076	0.075	NA	1.9	+/- 15.0	Linear	
beta-BHC	0.075	0.067	0.514	0.460	-10.70	NA	+/- 15.0	AverageRF	
gamma-BHC (Lindane)	0.075	0.072	1.475	1.416	-3.90	NA	+/- 15.0	AverageRF	
delta-BHC	0.075	0.070	1.393	1.303	-6.50	NA	+/- 15.0	AverageRF	
Heptachlor	0.075	0.068	1.472	1.334	-9.40	NA	+/- 15.0	AverageRF	
Aldrin	0.075	0.071	1.296	1.222	-5.60	NA	+/- 15.0	AverageRF	
Heptachlor epoxide	0.075	0.071	1.097	1.043	-4.90	NA	+/- 15.0	AverageRF	
gamma-Chlordane	0.075	0.072	1.099	1.058	-3.70	NA	+/- 15.0	AverageRF	
Methoxychlor	0.075	0.073	0.073	0.075	NA	-2.8	+/- 15.0	Linear	
alpha-Chlordane	0.075	0.075	1.102	1.108	0.50	NA	+/- 15.0	AverageRF	
4,4'-DDE	0.075	0.069	0.956	0.881	-7.90	NA	+/- 15.0	AverageRF	
Dieldrin	0.075	0.069	1.186	1.093	-7.80	NA	+/- 15.0	AverageRF	
Endrin	0.075	0.071	0.981	0.924	-5.80	NA	+/- 15.0	AverageRF	
Endosulfan II	0.075	0.068	0.883	0.804	-8.90	NA	+/- 15.0	AverageRF	
4,4'-DDD	0.075	0.071	0.770	0.728	-5.40	NA	+/- 15.0	AverageRF	
Endrin aldehyde	0.075	0.064	0.636	0.544	-14.50	NA	+/- 15.0	AverageRF	
Endosulfan sulfate	0.075	0.068	0.764	0.688	-9.90	NA	+/- 15.0	AverageRF	
Tetrachloro-m-xylene	0.150	0.139	0.856	0.794	-7.30	NA	+/- 15.0	AverageRF	
Decachlorobiphenyl - SS	0.150	0.148	0.148	0.150	NA	-1.5	+/- 15.0	Linear	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/31/2006

Continuing Calibration Verification Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/29/2006GCD
Instrument ID: GCD
File ID: D0330018

Column: DB5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Toxaphene	0.750	0.784	0.000	0.000	5.30	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/31/2006

Continuing Calibration Verification Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/29/2006GCD
Instrument ID: GCD
File ID: D0330019

Column: DB5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Endosulfan I	0.075	0.071	0.969	0.923	-4.80	NA	+/- 15.0	AverageRF	
Endrin ketone	0.075	0.070	0.836	0.781	-6.60	NA	+/- 15.0	AverageRF	
4,4'-DDT	0.075	0.071	0.071	0.075	NA	-5.1	+/- 15.0	Linear	
alpha-BHC	0.075	0.071	1.649	1.566	-5.00	NA	+/- 15.0	AverageRF	
beta-BHC	0.075	0.075	0.454	0.454	0.00	NA	+/- 15.0	AverageRF	
gamma-BHC (Lindane)	0.075	0.077	1.397	1.436	2.80	NA	+/- 15.0	AverageRF	
delta-BHC	0.075	0.076	1.328	1.339	0.80	NA	+/- 15.0	AverageRF	
Heptachlor	0.075	0.073	1.413	1.380	-2.30	NA	+/- 15.0	AverageRF	
Aldrin	0.075	0.072	1.278	1.234	-3.40	NA	+/- 15.0	AverageRF	
Heptachlor epoxide	0.075	0.074	1.106	1.097	-0.80	NA	+/- 15.0	AverageRF	
gamma-Chlordane	0.075	0.075	1.073	1.075	0.20	NA	+/- 15.0	AverageRF	
Methoxychlor	0.075	0.074	0.341	0.338	-0.90	NA	+/- 15.0	AverageRF	
alpha-Chlordane	0.075	0.073	1.119	1.096	-2.10	NA	+/- 15.0	AverageRF	
4,4'-DDE	0.075	0.071	0.952	0.904	-5.00	NA	+/- 15.0	AverageRF	
Dieldrin	0.075	0.069	1.135	1.039	-8.40	NA	+/- 15.0	AverageRF	
Endrin	0.075	0.073	0.996	0.972	-2.40	NA	+/- 15.0	AverageRF	
Endosulfan II	0.075	0.070	0.869	0.808	-7.10	NA	+/- 15.0	AverageRF	
4,4'-DDD	0.075	0.068	0.756	0.684	-9.60	NA	+/- 15.0	AverageRF	
Endrin aldehyde	0.075	0.071	0.585	0.557	-4.80	NA	+/- 15.0	AverageRF	
Endosulfan sulfate	0.075	0.072	0.072	0.075	NA	-4.4	+/- 15.0	Linear	
Tetrachloro-m-xylene	0.150	0.144	0.811	0.781	-3.70	NA	+/- 15.0	AverageRF	
Decachlorobiphenyl - SS	0.150	0.132	0.762	0.673	-11.80	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/31/2006

Continuing Calibration Verification Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/29/2006GCD
Instrument ID: GCD
File ID: D0330030

Column: DB5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Toxaphene	0.500	0.526	0.000	0.000	5.13	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/31/2006

Continuing Calibration Verification Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/29/2006GCD
Instrument ID: GCD
File ID: D0330031

Column: DB5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Endosulfan I	0.050	0.048	0.969	0.920	-5.00	NA	+/- 15.0	AverageRF	
Endrin ketone	0.050	0.046	0.836	0.762	-8.90	NA	+/- 15.0	AverageRF	
4,4'-DDT	0.050	0.047	0.047	0.050	NA	-6.6	+/- 15.0	Linear	
alpha-BHC	0.050	0.047	1.649	1.549	-6.10	NA	+/- 15.0	AverageRF	
beta-BHC	0.050	0.051	0.454	0.461	1.60	NA	+/- 15.0	AverageRF	
gamma-BHC (Lindane)	0.050	0.051	1.397	1.421	1.80	NA	+/- 15.0	AverageRF	
delta-BHC	0.050	0.049	1.328	1.301	-2.00	NA	+/- 15.0	AverageRF	
Heptachlor	0.050	0.048	1.413	1.363	-3.50	NA	+/- 15.0	AverageRF	
Aldrin	0.050	0.047	1.278	1.211	-5.30	NA	+/- 15.0	AverageRF	
Heptachlor epoxide	0.050	0.048	1.106	1.072	-3.10	NA	+/- 15.0	AverageRF	
gamma-Chlordane	0.050	0.048	1.073	1.025	-4.50	NA	+/- 15.0	AverageRF	
Methoxychlor	0.050	0.049	0.341	0.336	-1.40	NA	+/- 15.0	AverageRF	
alpha-Chlordane	0.050	0.047	1.119	1.055	-5.80	NA	+/- 15.0	AverageRF	
4,4'-DDE	0.050	0.046	0.952	0.868	-8.80	NA	+/- 15.0	AverageRF	
Dieldrin	0.050	0.046	1.135	1.052	-7.20	NA	+/- 15.0	AverageRF	
Endrin	0.050	0.048	0.996	0.962	-3.40	NA	+/- 15.0	AverageRF	
Endosulfan II	0.050	0.046	0.869	0.796	-8.40	NA	+/- 15.0	AverageRF	
4,4'-DDD	0.050	0.044	0.756	0.666	-11.90	NA	+/- 15.0	AverageRF	
Endrin aldehyde	0.050	0.046	0.585	0.536	-8.40	NA	+/- 15.0	AverageRF	
Endosulfan sulfate	0.050	0.047	0.047	0.050	NA	-6.8	+/- 15.0	Linear	
Tetrachloro-m-xylene	0.100	0.093	0.811	0.755	-6.90	NA	+/- 15.0	AverageRF	
Decachlorobiphenyl - SS	0.100	0.088	0.762	0.674	-11.60	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005

Analysis Run Log
ORGANOCHLORINE PESTICIDES

Analysis Method: SW8081

Instrument ID: GCD
Column: DB5

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
D0313004	PSTD1 CHLRTOX	PSTD1 CHLRTOX	03/13/2006	14:53		03/13/2006	15:23
D0313005	PSTD2 CHLRTOX	PSTD2 CHLRTOX	03/13/2006	15:45		03/13/2006	16:15
D0313006	PSTD3 CHLRTOX	PSTD3 CHLRTOX	03/13/2006	16:37		03/13/2006	17:07
D0313007	PSTD4 CHLRTOX	PSTD4 CHLRTOX	03/13/2006	17:29		03/13/2006	17:59
D0313008	PSTD5 CHLRTOX	PSTD5 CHLRTOX	03/13/2006	18:21		03/13/2006	18:51
D0313009	QCALTSTD	PSTD3 CHLRTOX	03/13/2006	19:12		03/13/2006	19:42
D0313011	PSTD1 PEST	PSTD1 PEST	03/13/2006	20:56		03/13/2006	21:26
D0313012	PSTD2 PEST	PSTD2 PEST	03/13/2006	21:48		03/13/2006	22:18
D0313013	PSTD3 PEST	PSTD3 PEST	03/13/2006	22:40		03/13/2006	23:10
D0313014	PSTD4 PEST	PSTD4 PEST	03/13/2006	23:32		03/14/2006	00:02
D0313015	PSTD5 PEST	PSTD5 PEST	03/14/2006	00:23		03/14/2006	00:53
D0313016	QCALTSTD	PSTD3 PEST	03/14/2006	01:15		03/14/2006	01:45
D0319012	PSTD4 CHLRTOX	PSTD4 CHLRTOX	03/19/2006	19:20		03/19/2006	19:50
D0319013	PSTD4 PEST	PSTD4 PEST	03/19/2006	20:11		03/19/2006	20:41
D0319015	Laboratory Control Sample	PWB10313LCS	03/19/2006	21:55		03/19/2006	22:25
D0319016	Laboratory Control Sample Duplicate	PWB10313LCSD	03/19/2006	22:47		03/19/2006	23:17
D0319017	Method Blank	PWB10313	03/19/2006	23:39		03/20/2006	00:09
D0319026	PSTD3 CHLRTOX	PSTD3 CHLRTOX	03/20/2006	07:25		03/20/2006	07:55
D0319027	PSTD3 PEST	PSTD3 PEST	03/20/2006	08:16		03/20/2006	08:46
D0324003	PSTD3 CHLRTOX	PSTD3 CHLRTOX	03/24/2006	10:36		03/24/2006	11:06
D0324004	PSTD3 PEST	PSTD3 PEST	03/24/2006	11:28		03/24/2006	11:58
D0324008	1349MW102CL	DH005006	03/24/2006	14:55		03/24/2006	15:25
D0324012	PSTD4 CHLRTOX	PSTD4 CHLRTOX	03/24/2006	18:22		03/24/2006	18:52
D0324013	PSTD4 PEST	PSTD4 PEST	03/24/2006	19:14		03/24/2006	19:44
D0328007	PSTD1 CHLRTOX	PSTD1 CHLRTOX	03/28/2006	21:27		03/28/2006	21:57
D0328008	PSTD2 CHLRTOX	PSTD2 CHLRTOX	03/28/2006	22:18		03/28/2006	22:48
D0328009	PSTD3 CHLRTOX	PSTD3 CHLRTOX	03/28/2006	23:10		03/28/2006	23:40
D0328010	PSTD4 CHLRTOX	PSTD4 CHLRTOX	03/29/2006	00:02		03/29/2006	00:32
D0328011	PSTD5 CHLRTOX	PSTD5 CHLRTOX	03/29/2006	00:54		03/29/2006	01:24
D0328012	QCALTSTD	PSTD3 CHLRTOX	03/29/2006	01:46		03/29/2006	02:16
D0328014	PSTD1 PEST	PSTD1 PEST	03/29/2006	03:29		03/29/2006	03:59
D0328015	PSTD2 PEST	PSTD2 PEST	03/29/2006	04:21		03/29/2006	04:51
D0328016	PSTD3 PEST	PSTD3 PEST	03/29/2006	05:13		03/29/2006	05:43
D0328017	PSTD4 PEST	PSTD4 PEST	03/29/2006	06:04		03/29/2006	06:34
D0328018	PSTD5 PEST	PSTD5 PEST	03/29/2006	06:56		03/29/2006	07:26
D0328021	QCALTSTD	PSTD3 PEST	03/29/2006	09:47		03/29/2006	10:17
D0330018	PSTD4 CHLRTOX	PSTD4 CHLRTOX	03/31/2006	00:22		03/31/2006	00:52

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005

Analysis Run Log
ORGANOCHLORINE PESTICIDES

Analysis Method: SW8081

Instrument ID: GCD
Column: DB5

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
D0330019	PSTD4 PEST	PSTD4 PEST	03/31/2006	01:13		03/31/2006	01:43
D0330021	Laboratory Control Sample	PWB10329LCS	03/31/2006	02:57		03/31/2006	03:27
D0330022	Laboratory Control Sample Duplicate	PWB10329LCSD	03/31/2006	03:49		03/31/2006	04:19
D0330023	Method Blank	PWB10329	03/31/2006	04:40		03/31/2006	05:10
D0330025	1349MW102CLR	DH005006RE	03/31/2006	06:24		03/31/2006	06:54
D0330027	LF5GW104CL	DH005005	03/31/2006	08:07		03/31/2006	08:37
D0330030	PSTD3 CHLRTOX	PSTD3 CHLRTOX	03/31/2006	10:42		03/31/2006	11:12
D0330031	PSTD3 PEST	PSTD3 PEST	03/31/2006	11:34		03/31/2006	12:04

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Extracted: 03/13/2006

Extraction Prep Log
ORGANOCHLORINE PESTICIDES

Extaction Method: SW3520
Analysis Method: SW8081

Extraction Lot: PWB10313
Level:

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	PWB10313	NA	NA	1.000 L	10	NA	
Laboratory Control Sample	PWB10313LCS	NA	NA	1.000 L	10	NA	
Laboratory Control Sample Duplicate	PWB10313LCSD	NA	NA	1.000 L	10	NA	
1349MW102CL	DH005006	03/07/2006	03/08/2006	1.050 L	10	NA	
LF5GW104CL	DH005005	03/07/2006	03/08/2006	1.050 L	10	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Extracted: 03/29/2006

Extraction Prep Log
ORGANOCHLORINE PESTICIDES

Extaction Method: SW3520
Analysis Method: SW8081

Extraction Lot: PWB10329
Level:

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	PWB10329	NA	NA	1.000 L	10	NA	
Laboratory Control Sample	PWB10329LCS	NA	NA	1.000 L	10	NA	
Laboratory Control Sample Duplicate	PWB10329LCSD	NA	NA	1.000 L	10	NA	
1349MW102CLR	DH005006RE	03/07/2006	03/08/2006	1.040 L	10	NA	*

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005

Holding Time Summary
ORGANOCHLORINE PESTICIDES

Analysis Method: SW8081

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
LF5GW104CL	03/07/2006	03/08/2006	03/13/2006	7	6	N/A	N/A	N/A	03/31/2006	40	18	
1349MW102CL	03/07/2006	03/08/2006	03/13/2006	7	6	N/A	N/A	N/A	03/24/2006	40	11	
1349MW102CLR	03/07/2006	03/08/2006	03/29/2006	7	22	N/A	N/A	N/A	03/31/2006	40	2	*

Comments:

Support Documentation

Liquid-Liquid Extraction, 3520C

Pesticide/PCB Water

Date	3-13-06
Time	16:00

Batches: DH005, DH008, DH009

Client(s): Presidio, EA/Anderson

Analytical Method(s)

- [x] 8081A
- [x] 8082
- [ ] CLP
- [ ] TCLP,1311

Solvent Lots

DCM	453483 3/16 / 3/13
Acetone	—
Hexane	450833 3/15/6

Spikes

Surrogate	13 -EXS- 78A-3		
Amt.	1.0 ml	Exp:	3/16/06
Spike 1	13 -EXS- ~~84A~~ 90A		
Amt.	1.0 ml	Exp:	3/27/06
Spike 2	13 -EXS- 86A		
Amt.	1.0 ml	Exp:	5/7/06
Spike 3	-EXS-		
Amt.	ml	Exp:	

Spiked by: [illegible] Witness: [illegible]

Cleanups

- [ ] GPC, 3640A — Calib: ____ By/date: ____ ID: ____
- *Initial KD* [ ] 1.0ml aliquot saved — By/date: ____ vol: ____ ml
- [ ] Florisil, 3620B — By/date: ____ Lot: ____
- [ ] Sulfuric Acid, 3665A — By/date: ____ Lot: ____
- [ ] Mercury, 3660B — By/date: ____ Lot: ____
- [x] No cleanups

Test Code(s): 8182

Sample ID	Surrogate	Spike 1	Spike 2	Spike 3	Amt (1L)	Final KD: H2O bath temp 90-100°C; Date & Volume	Reling.: Date
	X	X	X	X	By:	By: [illegible] 3/15/6	By: [illegible] 3/15/6
PWB1	X				1.0	10.0 ml	
PWL1 → Post	X	X					
PWL2	X	X					
L-3 → Ano	X		X				
L-4	X		X				
DH005-4 P	X				1.05		
-5 S	X						
-6 P	X						
DH008-15 B	X						
DH009-2L	X						

3-13-06

- [ ] Completed ms/msd
- [x] Sample limited, no ms/msd, duplicate LCS

082

Comments:

Peer Review By:

Organic Extractions Dept.
CAS-Redding

Liquid-Liquid Extraction, 3520C

Pesticide/PCB Water

Date	3-29-06
Time	5:00

Batches: DH005, DH009

Client(s): Presidio

Analytical Method(s)

- [X] 8081A
- [X] 8082
- [ ] CLP
- [ ] TCLP,1311

Solvent Lots

DCM	45348 3/28-3/29
Acetone	
Hexane	45320 2/1 3/25

Spikes

Surrogate: 13 -EXS-91A-2
Amt. 1.0 ml Exp: 6/14/06

Spike 1: 13 -EXS-94A
Amt. 1.0 ml Exp: 4/05/06

Spike 2: 13 -EXS-95A
Amt. 1.0 ml Exp: 1/28/06

Spike 3: -EXS-
Amt. ml Exp:

Spiked by: [illegible] Witness: [illegible]

Cleanups

- [ ] GPC, 3640A — Calib: ; By/date: ; ID:
- *Initial KD* [ ] 1.0ml aliquot saved — By/date: ; vol: ml
- [ ] Florisil, 3620B — By/date: ; Lot:
- [ ] Sulfuric Acid, 3665A — By/date: ; Lot:
- [ ] Mercury, 3660B — By/date: ; Lot:
- [X] No cleanups

Test Code(s): 8021/8082

Sample ID	Surrogate	Spike 1	Spike 2	Spike 3	Amt (1L)	Final KD (H2O bath temp 90 °C) Date & Volume	Relinq. Date
	X	X	X	X	By: JP	By: CLE 3/30/06	By: CLE
PWB1	X				1.0	10.0ml	3/30/06
PWL1 , Pest	X	X					
PWL2	X	X					
L-3 , Aro	X		X				
L-4	X		X				
DH005-4a	X				1.05		
↓ - 6T	X				1.04		
DH009-2R	X						

3-29-06 JP

- [ ] Completed ms/msd
- [X] Sample limited, no ms/msd, duplicate LCS

092

Comments:

Peer Review By:

Organic Extractions Dept.
CAS-Redding

Columbia Analytical Services

Herb/Pest/PCB Injection Log
Varian 3600
GC D

Date
3-13-06

Analyst: dB
Method: GC8081A

Directory: D060313
Internal Standard: 22-GC-24B-1/2

Page: 8

Filename	Laboratory ID	F	Matrix	DL Factor	Reference Standard	Comments
D060313 01	PIBLK 03/13		STD	1x	22-GC - 34A	
02	PGM 03/13		↓	↓	↓ - 27B	
03	WASH					
04	PSTD1 CHLTOX		STD	1x	22-GC - 35A	
05	2				- 35B	
06	3				- 35C	
07	4				- 35D	
08	5				- 35E	
09	3				- 35F	
10	WASH					
11	PSTD1 PEST		STD	1x	22-GC - 35G	
12	2				- 35H	
13	3				- 35I	
14	4				- 35J	
15	5				- 35K	
16	3				- 35L	
17	WASH					
18	PSB10308LCS		SOIL	1x		
19	PSB10308					
20	DG991 001					need 5x bbE
21	001MS					
22	001MSD					
23	002					need 2, 5, 20x
24	DG992 001			10x		ran 10x due to dark, thick black matrix
25	WASH					

Columbia Analytical Services

Herb/Pest/PCB Injection Log
Varian 3600
GC D

Date
3-19-06

Analyst: JB
Method: GC8081A

Directory: D060319
Internal Standard: 22-4C-24B-1/2

Page: 13

Filename	Laboratory ID	F	Matrix	DL Factor	Reference Standard	Comments
D060319 01	PIBLK 03/19		STD	1x	22-4C -34A	
02	PEM 03/19				-27B	
03	PST03 CHLRTOX				-35C	
04	PEST				-35I	
05	WASH					
06	DG978 001		SOIL	100		
07	002			10		
08	003			100		
09	WASH					
10						
11	PEM 03/19		STD	1x	22-4C -27B	
12	PST04 CHLRTOX				-35D	
13	PEST				-35J	
14	WASH					
15	PWB 0313LCS		H_2O	1x		TCX 90 DCB 85
16	LCSD					TCX 77 DCB 77
17	PWB0313					TCX 88 DCB 78
18	DH008 015	B				
19	PSB1 0310LCS		SOIL	1x		
20	PSB10310					
21	DH008 001	A		4		
22	001	A		40		NV
23	WASH					
24	WASH					
25	PEM 03/19		STD	1x	22-4C -27B	

Columbia Analytical Services

Herb/Pest/PCB Injection Log
Varian 3600
GC D

Date
3-19-06

Analyst: dB
Method: GC8081A

Directory: D060319
Internal Standard: 22-4C-24B-1/2

Page: 14

Filename		Laboratory ID		F	Matrix	DL Factor	Reference Standard	Comments
D060319	26	PSTD3 CHLRTOX			STD	1x	22-4C —35C	
	27	PEST					—35I	
	28	WASH						
	29	DH008	002	A	SOIL	5		
	30		002	A		50		DL
	31		003	A		2		
	32		003	A		20		DL
	33	DG978	001			2500		
	34		002			5		*
	35		003			2000		*
	36	WASH						
	37	DG978	001		SOIL	5000		*
	38	WASH						
	39	PSTD4	CHLRTOX		STD	1x	22-4C —35D	
	40		PEST				—35J	
	41	PIBLK	03/20		STD	1x	—34A	
	42	PEM	03/20				—27B	
	43	PSTD4	CHLRTOX				—35D	
	44		PEST				—35J	
	45	WASH						
	46	DH008	004	A	SOIL	2		
	47		004	A		20		DL
	48		005	A		2		
	49		005	A		20		DL
	50		006	A		2		DL

Columbia Analytical Services

Herb/Pest/PCB Injection Log
Varian 3600
GC D

Date
3-24-06

Analyst: HB
Method: GC8081A/608

Directory: D060327
Internal Standard: 22-GC-24B-1/2

Filename		Laboratory ID	F	Matrix	DL Factor	Reference Standard	Comments
D060324	01	PJBLK 03/24		STD	1x	22-GC-34A	
	02	PEM 03/24				-27B	
	03	PSTD3 CHLRTOX				-35C	
	04	PEST				-35I	
	05	WASH					
	06	DH005 004		H2O	1x		TCX: 58 DCB: 45
	07						72 48
	08	006					54 28
	09	DH009 002					63 21
	10	WASH					
	11	PEM 03/24		STD	1x	22-GC-27B	
	12	PSTD4 CHLRTOX				-35D	
	13	PEST				-35J	
	14	WASH					
	15	PWB10324LCS		H2O	1x		
	16	LCSD					
	17	PWB10324					
	18	L0600537-001					
	19	-001					Post
	20	-002					
	21	-002					Post
	22	-003					
	23	-003					Post
	24	WASH					
	25	PSTD3CHLRTOX		STD	1x	22-GC-35C	
	26	PEST				-35I	
	27	WASH					

Columbia Analytical Services

Herb/Pest/PCB Injection Log
Varian 3600
GC D

Date
3-28-06

Analyst: JB
Method: GC8081A

Directory: D060328
Internal Standard: 22-GC-24B-1/2

Page: 22

Filename	Laboratory ID	F	Matrix	DL Factor	Reference Standard	Comments
D060328 01	WASH					swabbed inj port; replaced septa
02	↓					
03						
04	PIBLK 03/28		STD	1x	22-GC-34A	
05	PEM 03/28		↓	↓	-27B	
06	WASH					
07	PSTD1 [illegible]		STD	1x	22-GC-35A	
08	2				-35B	
09	3				-35C	
10	4				-35D	
11	5				-35E	
12	3				-35F	
13	WASH					
14	PSTD1 PEST		STD	1x	22-GC-35G	
15	2				-35H	
16	3				-35I	
17	4				-35J	
18	5				-35K	
19					-35L	3 cmpds high 1°
20	WASH					
21	PSTD3 PEST		STD	1x	22-GC-35L	PASS!! 1° Meth (15.1) 2°
22	WASH					

Columbia Analytical Services

Herb/Pest/PCB Injection Log
Varian 3600
GC D

Date
3-30-06

Analyst: JB
Method: D060330 GC8081A

Directory: D060330
Internal Standard: 22-GC-24B-1/2

Page: 24

Filename	Laboratory ID	F	Matrix	DL Factor	Reference Standard	Comments
D060330 01	PFBLK 03/30		STD	1x	22-GC-34A	
02	PEM 03/30		↓	↓	↓ -27B	
03	PST03 CHLRTOX				-35C	
04	↓ PEST		↓	↓	↓ -35I	
05	WASH					
06	D060126-003	A	SOIL	20X		
07	DH008-009		↓	20X		
08	PSB10324LCS			1x		
09	PSB10324			↓		
10	D060058-001	.01				
11	↓ 001MS	↓				
12	↓ 001MSD	↓	↓	↓		
13	WASH					
14	D060058-002	.01	SOIL	1x		
15	WASH					
16	↓					
17	PEM 03/30		STD	1x	22-GC-27B	
18	PST04 CHLRTOX				-35D	
19	↓ PEST		↓	↓	↓ -35J	
20	WASH					
21	PWB10329LCS		H_2O	1x		
22	LCSD		↓	↓		
23	PWB10329					
24	DH005 [redacted]					
25	[redacted]		↓	↓		

Columbia Analytical Services

Herb/Pest/PCB Injection Log
Varian 3600
GC D

Date
3-30-06

Analyst: dB
Method: GC8081A

Directory: D060330
Internal Standard: 22-4C-24B-1/2
22-4C-37A-1/2

Page: 25

Filename		Laboratory ID	F	Matrix	DL Factor	Reference Standard	Comments
D060330	26	DH009-002RE		H_2O	1x		
	27	[redacted] 005		↓	↓		re-analysis
	28	WASH					
	29	WASH					
	30	[redacted]		STD	1x	22-4C-35C	
	31	↓ [redacted]		↓	↓	-35J	
	32	WASH					

3/31/06 TS

Method Detection Limit Study

Columbia Analytical Services
Redding, CA

Analysis Method:	SW8081	**Analyst:**	J. Beckett
Extraction Method:	SW3520	**Instrument:**	GCD
Matrix:	WATER	**Description:**	Combined MDL for Col.1 and Col. 2
MDL Effective Date:	1/1/2006	**Department:**	GS

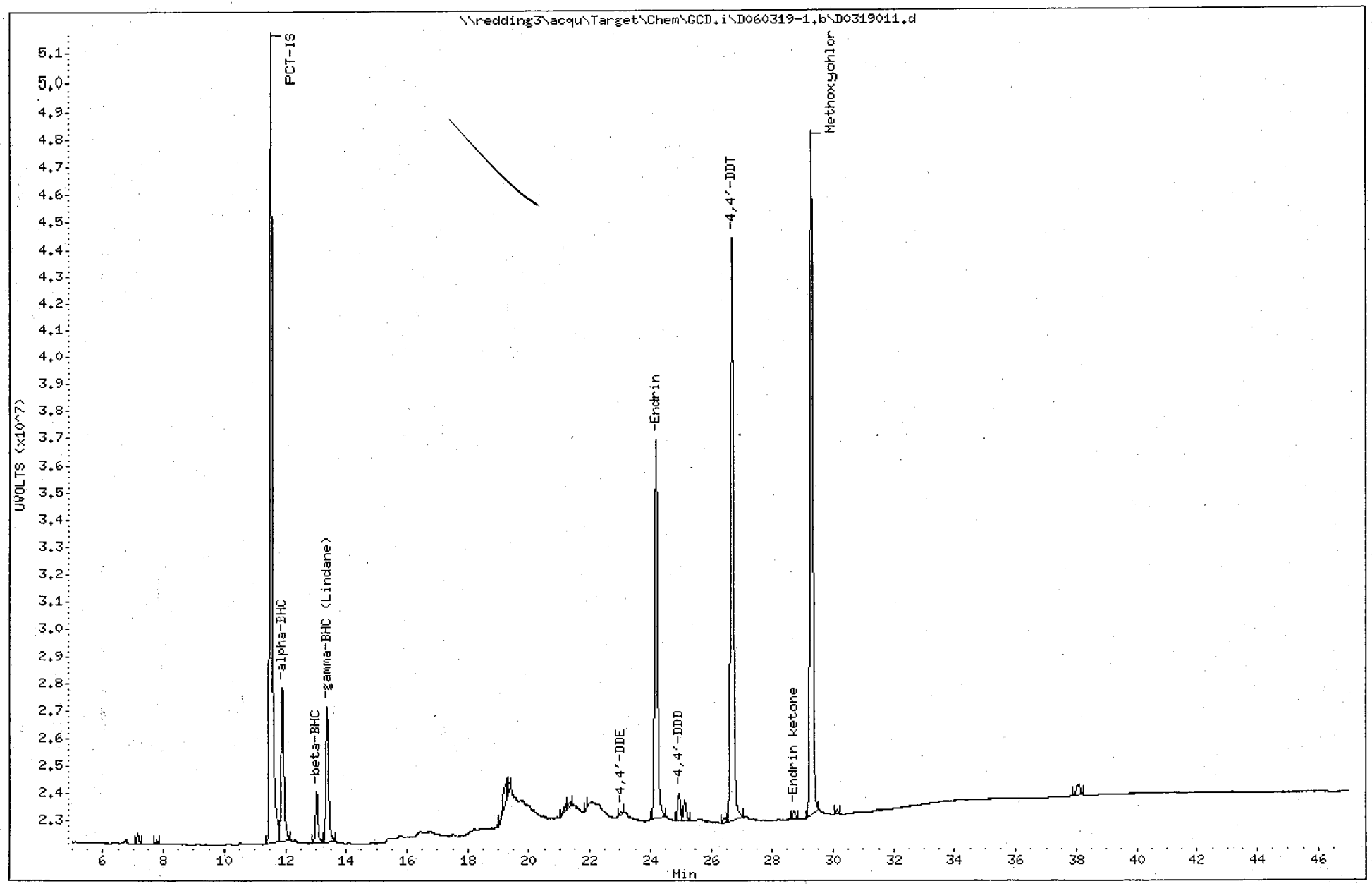
#	Compound	CAS No.	Date	MDL	UG/L	1	2	3	4	5	6	7	8	Mean	Std Dev	MDL Check	True Value	%Rec
1	ALPHA-BHC	319-84-6	12/9/2005	0.0025	0.0125	0.0117	0.0116	0.0123	0.0136	0.0126	0.0121	0.0107	0.0123	0.0121	0.0008	0.0087	0.0063	138.66
2	BETA-BHC	319-85-7	12/9/2005	0.0029	0.0125	0.0100	0.0098	0.0105	0.0106	0.0124	0.0113	0.0093	0.0102	0.0105	0.0010	0.0036	0.0063	58.34
3	GAMMA-BHC	58-89-9	12/9/2005	0.0034	0.0125	0.0097	0.0098	0.0109	0.0100	0.0127	0.0118	0.0099	0.0116	0.0108	0.0011	0.0035	0.0063	55.58
4	DELTA-BHC	319-86-8	12/9/2005	0.0022	0.0125	0.0103	0.0098	0.0100	0.0096	0.0088	0.0102	0.0082	0.0094	0.0095	0.0007	0.0039	0.0063	62.54
5	HEPTACHLOR	76-44-8	12/9/2005	0.0027	0.0125	0.0092	0.0094	0.0099	0.0109	0.0117	0.0110	0.0097	0.0098	0.0102	0.0009	0.0068	0.0063	108.42
6	ALDRIN	309-00-2	12/9/2005	0.0026	0.0125	0.0075	0.0076	0.0069	0.0074	0.0085	0.0090	0.0062	0.0074	0.0076	0.0009	0.0027	0.0063	43.31
7	HEPTACHLOR EPOXIDE	1024-57-3	12/9/2005	0.0029	0.0125	0.0107	0.0117	0.0109	0.0119	0.0124	0.0113	0.0093	0.0109	0.0111	0.0010	0.0062	0.0063	99.10
8	g-CHLORDANE	5566-34-7	12/9/2005	0.0032	0.0125	0.0082	0.0102	0.0101	0.0098	0.0112	0.0115	0.0102	0.0090	0.0100	0.0011	0.0049	0.0063	78.21
9	ENDOSULFAN I	959-98-8	12/9/2005	0.0032	0.0125	0.0094	0.0109	0.0106	0.0111	0.0130	0.0117	0.0104	0.0104	0.0109	0.0011	0.0038	0.0063	60.96
10	a-CHLORDANE	5103-71-9	12/9/2005	0.0032	0.0125	0.0096	0.0097	0.0098	0.0099	0.0123	0.0115	0.0100	0.0093	0.0102	0.0011	0.0038	0.0063	60.88
11	4,4'-DDE	72-55-9	12/9/2005	0.0066	0.0125	0.0042	0.0094	0.0093	0.0100	0.0116	0.0108	0.0088	0.0090	0.0091	0.0022	0.0037	0.0063	59.26
12	DIELDRIN	60-57-1	12/9/2005	0.0031	0.0125	0.0092	0.0094	0.0096	0.0104	0.0122	0.0101	0.0089	0.0095	0.0099	0.0010	0.0039	0.0063	62.37
13	ENDRIN	72-20-8	12/9/2005	0.0027	0.0125	0.0099	0.0096	0.0106	0.0100	0.0123	0.0110	0.0097	0.0101	0.0104	0.0009	0.0039	0.0063	63.04
14	ENDOSULFAN II	33213-65-9	12/9/2005	0.0024	0.0125	0.0096	0.0079	0.0097	0.0097	0.0094	0.0097	0.0081	0.0083	0.0090	0.0008	0.0048	0.0063	77.47
15	4,4'-DDD	72-54-8	12/9/2005	0.0025	0.0125	0.0105	0.0094	0.0100	0.0108	0.0107	0.0115	0.0088	0.0101	0.0102	0.0008	0.0042	0.0063	67.60
16	ENDRIN ALDEHYDE	7421-93-4	12/9/2005	0.0124	0.0125	0.0123	0.0173	0.0208	0.0226	0.0210	0.0212	0.0183	0.0264	0.0200	0.0041	0.0032	0.0063	51.66
17	ENDOSULFAN SULFATE	1031-07-8	12/9/2005	0.0059	0.0125	0.0122	0.0123	0.0134	0.0087	0.0146	0.0145	0.0110	0.0113	0.0122	0.0020	0.0055	0.0063	88.05
18	4,4'-DDT	50-29-3	12/9/2005	0.0024	0.0125	0.0101	0.0093	0.0089	0.0105	0.0098	0.0108	0.0089	0.0087	0.0096	0.0008	0.0037	0.0063	59.10
19	ENDRIN KETONE	53494-70-5	12/9/2005	0.0065	0.0125	0.0084	0.0053	0.0092	0.0092	0.0099	0.0039	0.0088	0.0092	0.0080	0.0022	0.0045	0.0063	71.55
20	METHOXYCHLOR	72-43-5	12/9/2005	0.0097	0.0125	0.0114	0.0150	0.0198	0.0180	0.0182	0.0186	0.0131	0.0126	0.0158	0.0032	0.0046	0.0063	74.08
21	TOXAPHENE	8001-35-2	12/9/2005	0.0651	0.2500	0.1604	0.2064	0.1829	0.2157	0.2067	0.1737	0.1660	0.2080	0.1900	0.0217	0.0892	0.125	71.34
22	CHLORDANE (TECHNICAL)	57-74-9	12/9/2005	0.0530	0.2500	0.2305	0.2355	0.2317	0.2326	0.2624	0.2465	0.1996	0.2390	0.2347	0.0177	0.1125	0.125	90.00
																		#DIV/0!

Data File: \\redding3\acqu\Target\Chem\GCD.i\D060319-1.b\D0319011.d
Date : 19-MAR-2006 18:28
Client ID: PEM 03/19
Sample Info: PEM 03/19

Column phase: DB5

Instrument: GCD.i

Operator: SW846 8081A
Column diameter: 0.53



7D
PESTICIDE BREAKDOWN

Lab Name: COLUMBIA ANALYTICAL SERVICES Case No.: DH005 SDG No.: DH005

GC Column: DB5 ID: 0.53 (mm) Init. Calib. Date(s): 03/13/06 03/14/06

Lab File ID: D0319011

Date Analyzed :03/19/06

Time Analyzed :1828

DDE AREA = 500345
DDD AREA = 6001477
DDT AREA = 133235500
Endrin Aldehyde AREA = 0
Endrin Ketone AREA = 1780685
Endrin AREA = 92809202

4,4'-DDT % breakdown (1): 4.65 Endrin % breakdown (1): 1.88

QC LIMITS:

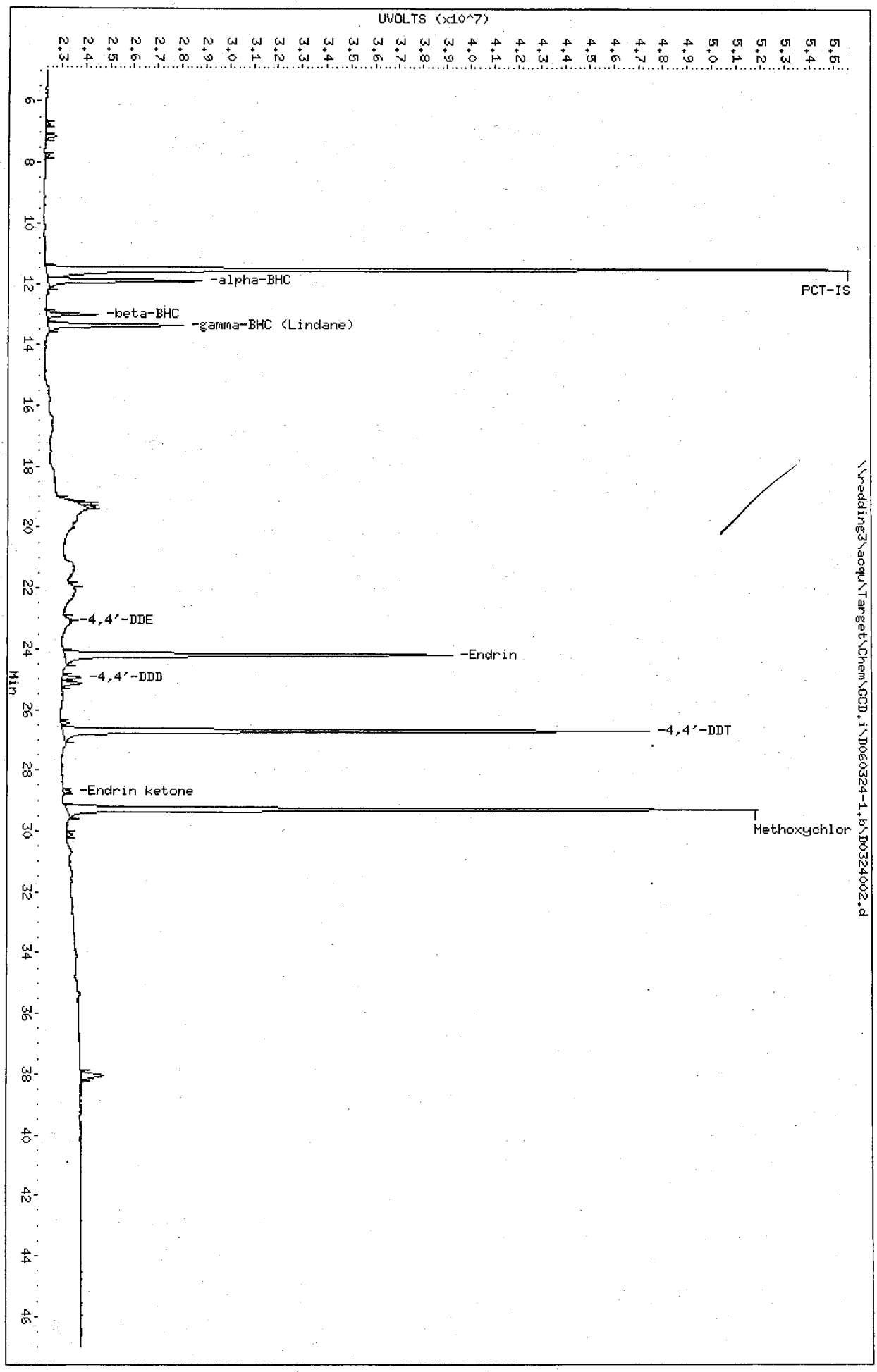
4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1 SW846

Data File: \redding3\acqu\Target\Chem\GCD.i\D060324-1.b\D0324002.d
Date : 24-MAR-2006 09:45
Client ID: PEM 03/24
Sample Info: PEM 03/24
Column phase: DB5

Instrument: GCD.i
Operator: SW846 8081A
Column diameter: 0.53



7D
PESTICIDE BREAKDOWN

Lab Name: COLUMBIA ANALYTICAL SERVICES Case No.: DH005 SDG No.: DH005

GC Column: DB5 ID: 0.53 (mm) Init. Calib. Date(s): 03/13/06 03/14/06

Lab File ID: D0324002

Date Analyzed :03/24/06

Time Analyzed :0945

DDE AREA = 593849
DDD AREA = 4730568
DDT AREA = 157275757
Endrin Aldehyde AREA = 0
Endrin Ketone AREA = 1833946
Endrin AREA = 107741341

4,4'-DDT % breakdown (1): 3.27 Endrin % breakdown (1): 1.67

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

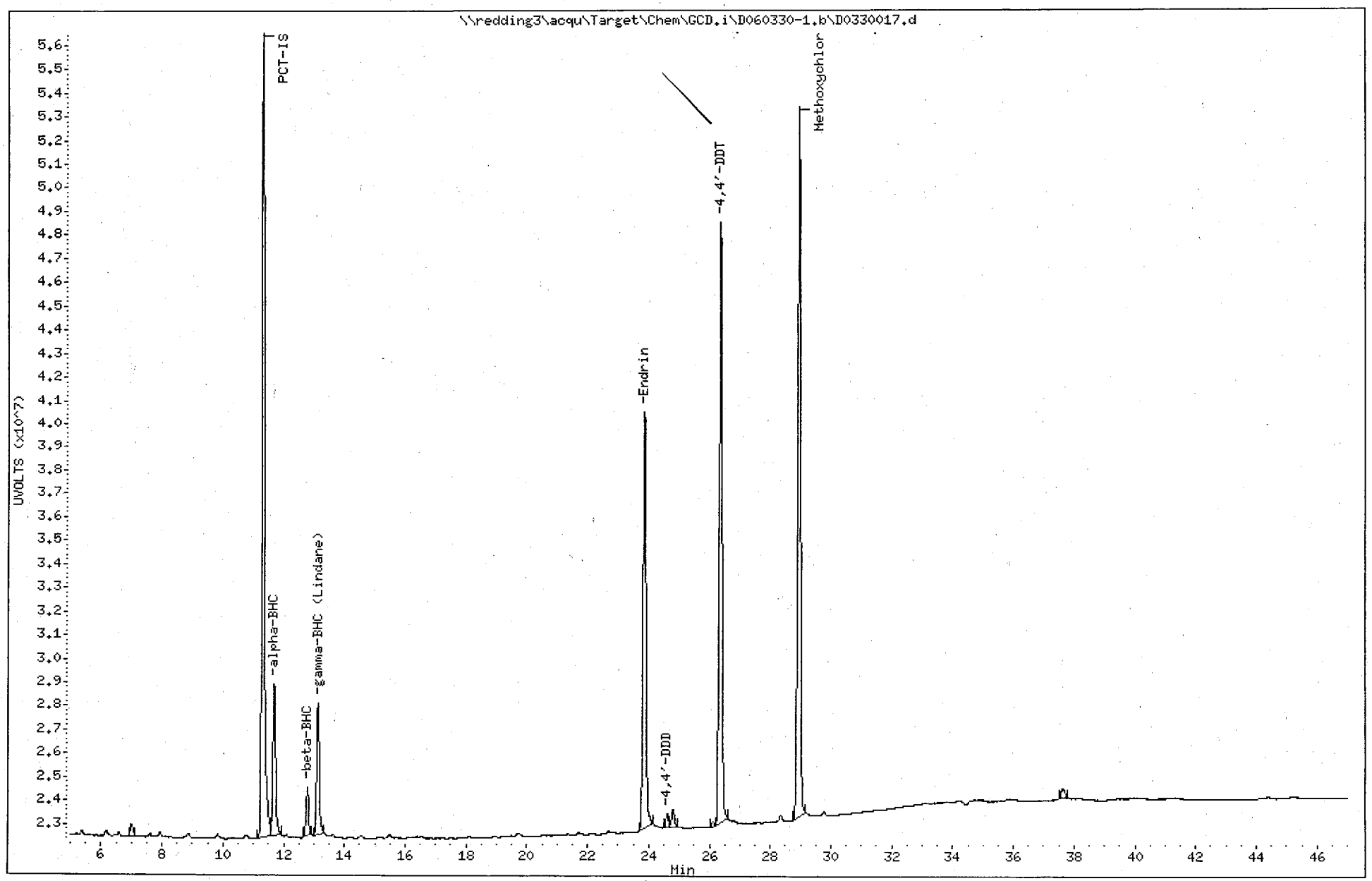
FORM VII PEST-1 SW846

Data File: \\redding3\acqu\Target\Chem\GCD.i\D060330-1.b\D0330017.d
Date : 30-MAR-2006 23:30
Client ID: PEM 03/30
Sample Info: PEM 03/30

Instrument: GCD.i

Operator: SW846 8081A
Column diameter: 0.53

Column phase: DB5



7D
PESTICIDE BREAKDOWN

Lab Name: COLUMBIA ANALYTICAL SERVICES Case No.: DH005 SDG No.: DH005

GC Column: DB5 ID: 0.53 (mm) Init. Calib. Date(s): 03/28/06 03/29/06

Lab File ID: D0330017

Date Analyzed :03/30/06

Time Analyzed :2330

DDE AREA = 0
DDD AREA = 3673210
DDT AREA = 159896605
Endrin Aldehyde AREA = 0
Endrin Ketone AREA = 0
Endrin AREA = 114742076

4,4'-DDT % breakdown (1): 2.24 Endrin % breakdown (1): 0.00

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1 SW846

GC/MS VOLATILE ORGANICS

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: 03/07/2006
Date Received: 03/08/2006

Volatile Organic Compounds

Sample Name: 1047MW101CL
Lab Code: DH005001
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
Vinyl chloride	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Bromomethane	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
Chloroethane	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
1,1-Dichloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Acetone	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
Carbon disulfide	ND	U	5.0	1	03/13/2006	03/13/2006	U0313W01	
Methylene chloride	ND	U	4.5	1	03/13/2006	03/13/2006	U0313W01	
trans-1,2-Dichloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Tert-butylmethylether	ND	U	2.0	1	03/13/2006	03/13/2006	U0313W01	
1,1-Dichloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Vinyl acetate	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
cis-1,2-Dichloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,2-Dichloroethene (total)	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
2-Butanone	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
Chloroform	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,1,1-Trichloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Carbon tetrachloride	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Benzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,2-Dichloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Trichloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,2-Dichloropropane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Bromodichloromethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
cis-1,3-Dichloropropene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
4-methyl-2-pentanone	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
Toluene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
trans-1,3-Dichloropropene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,1,2-Trichloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Tetrachloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
2-Hexanone	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
Dibromochloromethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Chlorobenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Ethylbenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Xylene (total)	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
Styrene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Bromoform	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: 03/07/2006
Date Received: 03/08/2006

Volatile Organic Compounds

Sample Name: 1047MW101CL
Lab Code: DH005001
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichlorobenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,4-Dichlorobenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,2-Dichlorobenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	104	76-114	03/13/2006	
1,4-Bromofluorobenzene - SS	97	86-115	03/13/2006	
Toluene-d8 - SS	95	88-110	03/13/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: 03/07/2006
Date Received: 03/08/2006

Volatile Organic Compounds

Sample Name: LF5GW104CL
Lab Code: DH005005
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
Vinyl chloride	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Bromomethane	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
Chloroethane	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
1,1-Dichloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Acetone	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
Carbon disulfide	ND	U	5.0	1	03/13/2006	03/13/2006	U0313W01	
Methylene chloride	ND	U	4.5	1	03/13/2006	03/13/2006	U0313W01	
trans-1,2-Dichloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Tert-butylmethylether	ND	U	2.0	1	03/13/2006	03/13/2006	U0313W01	
1,1-Dichloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Vinyl acetate	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
cis-1,2-Dichloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,2-Dichloroethene (total)	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
2-Butanone	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
Chloroform	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,1,1-Trichloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Carbon tetrachloride	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Benzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,2-Dichloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Trichloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,2-Dichloropropane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Bromodichloromethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
cis-1,3-Dichloropropene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
4-methyl-2-pentanone	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
Toluene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
trans-1,3-Dichloropropene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,1,2-Trichloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Tetrachloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
2-Hexanone	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
Dibromochloromethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Chlorobenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Ethylbenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Xylene (total)	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
Styrene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Bromoform	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: 03/07/2006
Date Received: 03/08/2006

Volatile Organic Compounds

Sample Name: LF5GW104CL
Lab Code: DH005005
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichlorobenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,4-Dichlorobenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,2-Dichlorobenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	107	76-114	03/13/2006	
1,4-Bromofluorobenzene - SS	101	86-115	03/13/2006	
Toluene-d8 - SS	95	88-110	03/13/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: 03/07/2006
Date Received: 03/08/2006

Volatile Organic Compounds

Sample Name: 1349MW102CL
Lab Code: DH005006
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
Vinyl chloride	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Bromomethane	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
Chloroethane	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
1,1-Dichloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Acetone	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
Carbon disulfide	ND	U	5.0	1	03/13/2006	03/13/2006	U0313W01	
Methylene chloride	ND	U	4.5	1	03/13/2006	03/13/2006	U0313W01	
trans-1,2-Dichloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Tert-butylmethylether	ND	U	2.0	1	03/13/2006	03/13/2006	U0313W01	
1,1-Dichloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Vinyl acetate	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
cis-1,2-Dichloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,2-Dichloroethene (total)	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
2-Butanone	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
Chloroform	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,1,1-Trichloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Carbon tetrachloride	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Benzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,2-Dichloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Trichloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,2-Dichloropropane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Bromodichloromethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
cis-1,3-Dichloropropene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
4-methyl-2-pentanone	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
Toluene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
trans-1,3-Dichloropropene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,1,2-Trichloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Tetrachloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
2-Hexanone	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
Dibromochloromethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Chlorobenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Ethylbenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Xylene (total)	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
Styrene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Bromoform	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: 03/07/2006
Date Received: 03/08/2006

Volatile Organic Compounds

Sample Name: 1349MW102CL
Lab Code: DH005006
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichlorobenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,4-Dichlorobenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,2-Dichlorobenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	107	76-114	03/13/2006	
1,4-Bromofluorobenzene - SS	106	86-115	03/13/2006	
Toluene-d8 - SS	96	88-110	03/13/2006	

Comments: _____

QC Summary

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: U0313W01

Units: ug/L (ppb)
Basis: NA

Extraction SW5030
Analysis Method: SW8260

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
Vinyl chloride	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Bromomethane	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
Chloroethane	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
1,1-Dichloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Acetone	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
Carbon disulfide	ND	U	5.0	1	03/13/2006	03/13/2006	U0313W01	
Methylene chloride	ND	U	4.5	1	03/13/2006	03/13/2006	U0313W01	
trans-1,2-Dichloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Tert-butylmethylether	ND	U	2.0	1	03/13/2006	03/13/2006	U0313W01	
1,1-Dichloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Vinyl acetate	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
cis-1,2-Dichloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,2-Dichloroethene (total)	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
2-Butanone	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
Chloroform	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,1,1-Trichloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Carbon tetrachloride	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Benzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,2-Dichloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Trichloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,2-Dichloropropane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Bromodichloromethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
cis-1,3-Dichloropropene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
4-methyl-2-pentanone	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
Toluene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
trans-1,3-Dichloropropene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,1,2-Trichloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Tetrachloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
2-Hexanone	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
Dibromochloromethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Chlorobenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Ethylbenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Xylene (total)	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
Styrene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Bromoform	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: U0313W01
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichlorobenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,4-Dichlorobenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,2-Dichlorobenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	102	76-114	03/13/2006	
1,4-Bromofluorobenzene - SS	102	86-115	03/13/2006	
Toluene-d8 - SS	96	88-110	03/13/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005

Surrogate Recovery Summary
Volatile Organic Compounds

Prep Method: SW5030
Analysis Method: SW8260

Units: Percent

Sample Name	Lab Code	Q	S1	S2	S3
Laboratory Control Sample	U0313W01LCS		94	102	98
Laboratory Control Sample Duplicate	U0313W01LCSD		98	104	98
Method Blank	U0313W01		102	102	96
1047MW101CL	DH005001		104	97	95
LF5GW104CL	DH005005		107	101	95
1349MW102CL	DH005006		107	106	96

Surrogate Recovery Control Limits (%)

S1:	1,2-Dichloroethane-d4 - SS	76-114
S2:	1,4-Bromofluorobenzene - SS	86-115
S3:	Toluene-d8 - SS	88-110

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/13/2006
Time Analyzed: 1000

Internal Standard Area and RT Summary
Volatile Organic Compounds

File ID: U061934
Instrument ID: MSU
Analysis Method: SW8260

Analysis Lot: MSU03/13/2006

	Fluorobenzene		Chlorobenzene-d5		1,4-Dichlorobenzene-d4	
	Area	RT	Area	RT	Area	RT
Results ==>	795025	6.67	542080	10.43	250623	13.30
Upper Limit ==>	1590050	7.17	1084160	10.93	501246	13.80
Lower Limit ==>	397513	6.17	271040	9.93	125312	12.80

Associated Analyses

Laboratory Control Sample	U0313W01LCS	802211	6.67	544788	10.43	255203	13.30
Laboratory Control Sample Duplicate	U0313W01LCSD	774315	6.67	536393	10.43	245064	13.30
Method Blank	U0313W01	722021	6.67	497305	10.43	216837	13.30
1047MW101CL	DH005001	707170	6.67	494883	10.43	226254	13.30
LF5GW104CL	DH005005	701447	6.67	491362	10.43	223765	13.30
1349MW102CL	DH005006	680484	6.67	479061	10.43	201861	13.30

Column used to flag values outside of QC limits with an asterisk

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH005
Project:	PRESIDIO	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	03/13/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample	Lab Control Sample	**DMS Sample**	Lab Control Sample Duplicate
Lab Code:	U0313W01LCS	**Units:**	ug/L (ppb)
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
1,1-Dichloroethene	SW5030	SW8260	0.50	10.0	9.4	10.1	94	101	65-135	7	
Benzene	SW5030	SW8260	0.50	10.0	9.6	10.1	96	101	65-135	5	
Trichloroethene	SW5030	SW8260	0.50	10.0	9.3	10.0	93	100	65-135	7	
Toluene	SW5030	SW8260	0.50	10.0	9.5	10.0	95	100	65-135	5	
Chlorobenzene	SW5030	SW8260	0.50	10.0	9.4	9.7	94	97	65-135	3	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Extracted: 03/13/2006
Date Analyzed: 03/13/2006
Time Analyzed: 12:33

Method Blank Summary
Volatile Organic Compounds

Extaction Method: SW5030
Analysis Method: SW8260

Extraction Lot: U0313W01
Level:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	U0313W01LCS	U061935	03/13/2006	10:25
Laboratory Control Sample Duplicate	U0313W01LCSD	U061936	03/13/2006	10:51
1047MW101CL	DH005001	U061945	03/13/2006	14:41
LF5GW104CL	DH005005	U061946	03/13/2006	15:06
1349MW102CL	DH005006	U061947	03/13/2006	15:32

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/11/2006
Time Analyzed: 1332

Tune Summary
Volatile Organic Compounds

File ID: U061908
Instrument ID: MSU
Column: DB-624

Analysis Method: SW8260
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	16.7	142208	PASS
75	95	30	60	45.5	388416	PASS
95	95	100	100	100.0	853696	PASS
96	95	5	9	6.6	55928	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	79.9	681728	PASS
175	174	5	9	7.5	51000	PASS
176	174	95	101	96.8	660224	PASS
177	176	5	9	6.5	42864	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
VSTD00.5	VSTD00.5	U061908	03/11/2006	1607	
VSTD001	VSTD001	U061909	03/11/2006	1633	
VSTD005	VSTD005	U061910	03/11/2006	1658	
VSTD010	VSTD010	U061911	03/11/2006	1724	
VSTD020	VSTD020	U061912	03/11/2006	1750	
VSTD040	VSTD040	U061913	03/11/2006	1815	
QCALTSTD	QCALTSTD	U061915	03/11/2006	1906	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/13/2006
Time Analyzed: 0844

Tune Summary
Volatile Organic Compounds

File ID: U061934
Instrument ID: MSU
Column: DB-624

Analysis Method: SW8260
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	17.7	376320	PASS
75	95	30	60	46.3	982464	PASS
95	95	100	100	100.0	2121216	PASS
96	95	5	9	6.6	140800	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	72.3	1533440	PASS
175	174	5	9	7.4	113576	PASS
176	174	95	101	95.8	1469440	PASS
177	176	5	9	6.4	94216	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
VSTD010	VSTD010	U061934	03/13/2006	1000	
Laboratory Control Sample	U0313W01LCS	U061935	03/13/2006	1025	
Laboratory Control Sample Duplicate	U0313W01LCSD	U061936	03/13/2006	1051	
Method Blank	U0313W01	U061940	03/13/2006	1233	
1047MW101CL	DH005001	U061945	03/13/2006	1441	
LF5GW104CL	DH005005	U061946	03/13/2006	1506	
1349MW102CL	DH005006	U061947	03/13/2006	1532	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Standards Data

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/11/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 03/11/2006MSU
Instrument ID: MSU

Column: DB-624

Level ID	File ID	Level ID	File ID
A	U061908	F	U061909
B	U061910		
C	U061911		
D	U061912		
E	U061913		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
* Chloromethane	A	0.500	0.258	B	5.000	0.221	C	10.00	0.230	D	20.00	0.215	E	40.00	0.222
# Vinyl chloride	A	0.500	0.245	B	5.000	0.233	C	10.00	0.242	D	20.00	0.229	E	40.00	0.236
Bromomethane	A	0.500	0.090	B	5.000	0.092	C	10.00	0.096	D	20.00	0.093	E	40.00	0.076
Chloroethane	A	0.500	0.124	B	5.000	0.140	C	10.00	0.137	D	20.00	0.132	E	40.00	0.131
# 1,1-Dichloroethene	A	0.500	0.188	B	5.000	0.178	C	10.00	0.176	D	20.00	0.169	E	40.00	0.176
Acetone	A			B	25.00	0.065	C	50.00	0.073	D	100.0	0.065	E	200.0	0.052
	F	5.000	0.082												
Carbon disulfide	A	0.500	0.439	B	5.000	0.438	C	10.00	0.446	D	20.00	0.435	E	40.00	0.449
Methylene chloride	A	0.500	0.221	B	5.000	0.184	C	10.00	0.189	D	20.00	0.180	E	40.00	0.187
trans-1,2-Dichloroethene	A	0.500	0.284	B	5.000	0.273	C	10.00	0.281	D	20.00	0.269	E	40.00	0.267
Tert-butylmethylether	A	0.500	0.758	B	5.000	0.695	C	10.00	0.765	D	20.00	0.732	E	40.00	0.723
* 1,1-Dichloroethane	A	0.500	0.531	B	5.000	0.470	C	10.00	0.498	D	20.00	0.481	E	40.00	0.484
Vinyl acetate	A	0.500	0.979	B	5.000	0.940	C	10.00	1.001	D	20.00	0.956	E	40.00	1.006
cis-1,2-Dichloroethene	A	0.500	0.289	B	5.000	0.295	C	10.00	0.304	D	20.00	0.294	E	40.00	0.295
1,2-Dichloroethene (total)	A	1.000	0.287	B	10.00	0.284	C	20.00	0.293	D	40.00	0.282	E	80.00	0.281
2-Butanone	A			B	25.00	0.102	C	50.00	0.118	D	100.0	0.111	E	200.0	0.100
	F	5.000	0.113												
# Chloroform	A	0.500	0.472	B	5.000	0.484	C	10.00	0.504	D	20.00	0.483	E	40.00	0.482
1,1,1-Trichloroethane	A	0.500	0.404	B	5.000	0.386	C	10.00	0.425	D	20.00	0.416	E	40.00	0.429

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/11/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 03/11/2006MSU
Instrument ID: MSU

Column: DB-624

Level ID	File ID	Level ID	File ID
A	U061908	F	U061909
B	U061910		
C	U061911		
D	U061912		
E	U061913		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Carbon tetrachloride	A	0.500	0.297	B	5.000	0.296	C	10.00	0.317	D	20.00	0.318	E	40.00	0.332
Benzene	A	0.500	1.080	B	5.000	1.050	C	10.00	1.092	D	20.00	1.057	E	40.00	1.061
1,2-Dichloroethane	A	0.500	0.422	B	5.000	0.387	C	10.00	0.404	D	20.00	0.385	E	40.00	0.386
Trichloroethene	A	0.500	0.288	B	5.000	0.274	C	10.00	0.291	D	20.00	0.278	E	40.00	0.281
# 1,2-Dichloropropane	A	0.500	0.278	B	5.000	0.270	C	10.00	0.274	D	20.00	0.273	E	40.00	0.273
Bromodichloromethane	A	0.500	0.340	B	5.000	0.317	C	10.00	0.344	D	20.00	0.347	E	40.00	0.354
cis-1,3-Dichloropropene	A	0.500	0.344	B	5.000	0.363	C	10.00	0.396	D	20.00	0.395	E	40.00	0.414
4-methyl-2-pentanone	A			B	25.00	0.208	C	50.00	0.248	D	100.0	0.231	E	200.0	0.223
	F	5.000	0.208												
# Toluene	A	0.500	1.014	B	5.000	1.072	C	10.00	1.074	D	20.00	1.044	E	40.00	1.052
trans-1,3-Dichloropropene	A	0.500	0.420	B	5.000	0.458	C	10.00	0.512	D	20.00	0.519	E	40.00	0.544
1,1,2-Trichloroethane	A	0.500	0.277	B	5.000	0.270	C	10.00	0.283	D	20.00	0.268	E	40.00	0.265
Tetrachloroethene	A	0.500	0.435	B	5.000	0.412	C	10.00	0.446	D	20.00	0.426	E	40.00	0.428
2-Hexanone	A			B	25.00	0.203	C	50.00	0.246	D	100.0	0.233	E	200.0	0.222
	F	5.000	0.190												
Dibromochloromethane	A	0.500	0.343	B	5.000	0.339	C	10.00	0.372	D	20.00	0.376	E	40.00	0.385
* Chlorobenzene	A	0.500	1.208	B	5.000	1.094	C	10.00	1.125	D	20.00	1.080	E	40.00	1.085
# Ethylbenzene	A	0.500	1.841	B	5.000	1.849	C	10.00	1.913	D	20.00	1.850	E	40.00	1.898
Xylene (total)	A	1.500	0.663	B	15.00	0.667	C	30.00	0.709	D	60.00	0.683	E	120.0	0.688

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/11/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 03/11/2006MSU
Instrument ID: MSU

Column: DB-624

Level ID	File ID	Level ID	File ID
A	U061908	F	U061909
B	U061910		
C	U061911		
D	U061912		
E	U061913		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Styrene	A	0.500	1.062	B	5.000	1.096	C	10.00	1.159	D	20.00	1.133	E	40.00	1.156
* Bromoform	A	0.500	0.193	B	5.000	0.176	C	10.00	0.210	D	20.00	0.212	E	40.00	0.222
* 1,1,2,2-Tetrachloroethane	A	0.500	1.023	B	5.000	0.855	C	10.00	0.912	D	20.00	0.863	E	40.00	0.839
1,3-Dichlorobenzene	A	0.500	1.914	B	5.000	1.736	C	10.00	1.851	D	20.00	1.767	E	40.00	1.761
1,4-Dichlorobenzene	A	0.500	2.178	B	5.000	1.805	C	10.00	1.874	D	20.00	1.811	E	40.00	1.804
1,2-Dichlorobenzene	A	0.500	1.964	B	5.000	1.658	C	10.00	1.747	D	20.00	1.667	E	40.00	1.646
1,2-dichloroethane-d4	A			B	5.000	0.295	C	10.00	0.274	D	20.00	0.282	E	40.00	0.258
	F	1.000	0.292												
Toluene-d8	A			B	5.000	1.363	C	10.00	1.288	D	20.00	1.347	E	40.00	1.262
	F	1.000	1.283												
Bromofluorobenzene	A			B	5.000	0.789	C	10.00	0.787	D	20.00	0.805	E	40.00	0.744
	F	1.000	0.715												

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/11/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 03/11/2006MSU
Instrument ID: MSU
Mean RSD: 5.06

Column: DB-624

			Calibration Evaluation				RRF Evaluation		
Analyte Name	Compound Type	Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Miniumum RRF
* Chloromethane	TRG	AverageRF	% RSD	7.5		15.0	0.229		0.10
# Vinyl chloride	TRG	AverageRF	% RSD	2.6		15.0	0.237		0.01
Bromomethane	TRG	AverageRF	% RSD	8.7		15.0	0.089		0.01
Chloroethane	TRG	AverageRF	% RSD	4.8		15.0	0.133		0.01
# 1,1-Dichloroethene	TRG	AverageRF	% RSD	3.7		15.0	0.177		0.01
Acetone	TRG	AverageRF	% RSD	16.0		15.0	0.067		0.01
Carbon disulfide	TRG	AverageRF	% RSD	1.3		15.0	0.441		0.01
Methylene chloride	TRG	AverageRF	% RSD	8.5		15.0	0.192		0.01
trans-1,2-Dichloroethene	TRG	AverageRF	% RSD	2.8		15.0	0.275		0.01
Tert-butylmethylether	TRG	AverageRF	% RSD	3.9		15.0	0.735		0.01
* 1,1-Dichloroethane	TRG	AverageRF	% RSD	4.8		15.0	0.493		0.10
Vinyl acetate	TRG	AverageRF	% RSD	2.9		15.0	0.976		0.01
cis-1,2-Dichloroethene	TRG	AverageRF	% RSD	1.8		15.0	0.295		0.01
1,2-Dichloroethene (total)	TRG	AverageRF	% RSD	1.7		15.0	0.285		0.01
2-Butanone	TRG	AverageRF	% RSD	7.0		15.0	0.109		0.01
# Chloroform	TRG	AverageRF	% RSD	2.4		15.0	0.485		0.01
1,1,1-Trichloroethane	TRG	AverageRF	% RSD	4.2		15.0	0.412		0.01
Carbon tetrachloride	TRG	AverageRF	% RSD	4.9		15.0	0.312		0.01
Benzene	TRG	AverageRF	% RSD	1.6		15.0	1.068		0.01
1,2-Dichloroethane	TRG	AverageRF	% RSD	4.0		15.0	0.397		0.01
Trichloroethene	TRG	AverageRF	% RSD	2.5		15.0	0.282		0.01
# 1,2-Dichloropropane	TRG	AverageRF	% RSD	1.0		15.0	0.274		0.01
Bromodichloromethane	TRG	AverageRF	% RSD	4.1		15.0	0.340		0.01
cis-1,3-Dichloropropene	TRG	AverageRF	% RSD	7.4		15.0	0.382		0.01
4-methyl-2-pentanone	TRG	AverageRF	% RSD	7.6		15.0	0.224		0.01
# Toluene	TRG	AverageRF	% RSD	2.3		15.0	1.051		0.01
trans-1,3-Dichloropropene	TRG	AverageRF	% RSD	10.3		15.0	0.491		0.01
1,1,2-Trichloroethane	TRG	AverageRF	% RSD	2.6		15.0	0.273		0.01
Tetrachloroethene	TRG	AverageRF	% RSD	2.9		15.0	0.429		0.01
2-Hexanone	TRG	AverageRF	% RSD	10.3		15.0	0.219		0.01
Dibromochloromethane	TRG	AverageRF	% RSD	5.7		15.0	0.363		0.01
* Chlorobenzene	TRG	AverageRF	% RSD	4.7		15.0	1.118		0.30
# Ethylbenzene	TRG	AverageRF	% RSD	1.8		15.0	1.870		0.01
Xylene (total)	TRG	AverageRF	% RSD	2.7		15.0	0.682		0.01
Styrene	TRG	AverageRF	% RSD	3.7		15.0	1.121		0.01
* Bromoform	TRG	AverageRF	% RSD	8.9		15.0	0.203		0.10
* 1,1,2,2-Tetrachloroethane	TRG	AverageRF	% RSD	8.3		15.0	0.898		0.30

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
ICAL Date: 03/11/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 03/11/2006MSU
Instrument ID: MSU
Mean RSD: 5.06

Column: DB-624

		Calibration Evaluation					RRF Evaluation		
Analyte Name	**Compound Type**	**Fit Type**	**Eval.**	**Eval. Result**	**Q**	**Control Criteria**	**Average RRF**	**Q**	**Miniumum RRF**
1,3-Dichlorobenzene	TRG	AverageRF	% RSD	4.1		15.0	1.806		0.01
1,4-Dichlorobenzene	TRG	AverageRF	% RSD	8.5		15.0	1.894		0.01
1,2-Dichlorobenzene	TRG	AverageRF	% RSD	7.7		15.0	1.736		0.01
1,2-dichloroethane-d4	SUR	AverageRF	% RSD	5.3		15.0	0.280		0.01
Toluene-d8	SUR	AverageRF	% RSD	3.4		15.0	1.309		0.01
Bromofluorobenzene	SUR	AverageRF	% RSD	4.9		15.0	0.768		0.01

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/11/2006

Second Source Calibration Verification
Volatile Organic Compounds

ICAL ID: 03/11/2006MSU
Instrument ID: MSU
File ID: U061915

Column: DB-624

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Chloromethane	10.0	9.095	0.229	0.209	-9.0	NA	+/- 40.0	AverageRF	
Vinyl chloride	10.0	9.563	0.237	0.227	-4.4	NA	+/- 20.0	AverageRF	
Bromomethane	10.0	11.17	0.089	0.100	11.8	NA	+/- 40.0	AverageRF	
Chloroethane	10.0	10.13	0.133	0.135	1.3	NA	+/- 40.0	AverageRF	
1,1-Dichloroethene	10.0	9.312	0.177	0.165	-6.9	NA	+/- 20.0	AverageRF	
Acetone	50.0	44.52	0.067	0.060	-10.9	NA	+/- 40.0	AverageRF	
Carbon disulfide	10.0	9.607	0.441	0.424	-3.9	NA	+/- 40.0	AverageRF	
Methylene chloride	10.0	9.207	0.192	0.177	-7.9	NA	+/- 40.0	AverageRF	
trans-1,2-Dichloroethene	10.0	9.818	0.275	0.270	-1.8	NA	+/- 40.0	AverageRF	
Tert-butylmethylether	10.0	9.909	0.735	0.728	-0.9	NA	+/- 40.0	AverageRF	
1,1-Dichloroethane	10.0	9.485	0.493	0.467	-5.1	NA	+/- 40.0	AverageRF	
Vinyl acetate	10.0	9.843	0.977	0.961	-1.6	NA	+/- 40.0	AverageRF	
cis-1,2-Dichloroethene	10.0	10.04	0.296	0.297	0.4	NA	+/- 40.0	AverageRF	
1,2-Dichloroethene (total)	20.0	19.86	0.285	0.283	-0.7	NA	+/- 40.0	AverageRF	
2-Butanone	50.0	48.08	0.109	0.104	-3.8	NA	+/- 40.0	AverageRF	
Chloroform	10.0	9.603	0.485	0.466	-4.0	NA	+/- 20.0	AverageRF	
1,1,1-Trichloroethane	10.0	9.878	0.412	0.407	-1.2	NA	+/- 40.0	AverageRF	
Carbon tetrachloride	10.0	9.546	0.312	0.298	-4.5	NA	+/- 40.0	AverageRF	
Benzene	10.0	9.613	1.068	1.027	-3.9	NA	+/- 40.0	AverageRF	
1,2-Dichloroethane	10.0	9.526	0.397	0.378	-4.7	NA	+/- 40.0	AverageRF	
Trichloroethene	10.0	9.715	0.283	0.275	-2.8	NA	+/- 40.0	AverageRF	
1,2-Dichloropropane	10.0	9.894	0.274	0.271	-1.0	NA	+/- 20.0	AverageRF	
Bromodichloromethane	10.0	9.634	0.340	0.328	-3.7	NA	+/- 40.0	AverageRF	
cis-1,3-Dichloropropene	10.0	9.920	0.382	0.379	-0.8	NA	+/- 40.0	AverageRF	
4-methyl-2-pentanone	50.0	50.44	0.224	0.226	0.9	NA	+/- 40.0	AverageRF	
Toluene	10.0	9.809	1.051	1.031	-1.9	NA	+/- 20.0	AverageRF	
trans-1,3-Dichloropropene	10.0	9.883	0.491	0.485	-1.2	NA	+/- 40.0	AverageRF	
1,1,2-Trichloroethane	10.0	9.945	0.273	0.271	-0.5	NA	+/- 40.0	AverageRF	
Tetrachloroethene	10.0	9.680	0.429	0.416	-3.2	NA	+/- 40.0	AverageRF	
2-Hexanone	50.0	50.89	0.219	0.223	1.8	NA	+/- 40.0	AverageRF	
Dibromochloromethane	10.0	9.841	0.363	0.357	-1.6	NA	+/- 40.0	AverageRF	
Chlorobenzene	10.0	9.742	1.119	1.090	-2.6	NA	+/- 40.0	AverageRF	
Ethylbenzene	10.0	9.774	1.870	1.828	-2.3	NA	+/- 20.0	AverageRF	
Xylene (total)	30.0	29.72	0.682	0.676	-0.9	NA	+/- 40.0	AverageRF	
Styrene	10.0	9.914	1.121	1.112	-0.8	NA	+/- 40.0	AverageRF	
Bromoform	10.0	9.816	0.203	0.199	-1.8	NA	+/- 40.0	AverageRF	
1,1,2,2-Tetrachloroethane	10.0	9.544	0.899	0.858	-4.6	NA	+/- 40.0	AverageRF	
1,3-Dichlorobenzene	10.0	9.582	1.806	1.730	-4.2	NA	+/- 40.0	AverageRF	
1,4-Dichlorobenzene	10.0	9.505	1.894	1.801	-5.0	NA	+/- 40.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/11/2006

Second Source Calibration Verification
Volatile Organic Compounds

ICAL ID: 03/11/2006MSU
Instrument ID: MSU
File ID: U061915

Column: DB-624

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
1,2-Dichlorobenzene	10.0	9.616	1.736	1.670	-3.8	NA	+/- 40.0	AverageRF	
1,2-dichloroethane-d4	N/A	N/A	0.280	0.278	0.0	NA	+/- 40.0	AverageRF	
Toluene-d8	N/A	N/A	1.309	1.354	0.0	NA	+/- 40.0	AverageRF	
Bromofluorobenzene	N/A	N/A	0.768	0.792	0.0	NA	+/- 40.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/13/2006

Continuing Calibration Verification Summary
Volatile Organic Compounds

ICAL ID: 03/11/2006MSU
Instrument ID: MSU
File ID: U061934

Column: DB-624

	Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
*	Chloromethane	10.0	8.455	0.10	0.229	0.194	-15.4	NA	+/- 40.0	AverageRF	
#	Vinyl chloride	10.0	9.596	0.01	0.237	0.227	-4.0	NA	+/- 20.0	AverageRF	
	Bromomethane	10.0	6.362	0.01	0.089	0.057	-36.4	NA	+/- 40.0	AverageRF	
	Chloroethane	10.0	10.53	0.01	0.133	0.140	5.3	NA	+/- 40.0	AverageRF	
#	1,1-Dichloroethene	10.0	9.845	0.01	0.177	0.175	-1.5	NA	+/- 20.0	AverageRF	
	Acetone	50.0	47.77	0.01	0.067	0.064	-4.4	NA	+/- 40.0	AverageRF	
	Carbon disulfide	10.0	10.21	0.01	0.441	0.451	2.1	NA	+/- 40.0	AverageRF	
	Methylene chloride	10.0	9.733	0.01	0.192	0.187	-2.7	NA	+/- 40.0	AverageRF	
	trans-1,2-Dichloroethene	10.0	10.02	0.01	0.275	0.276	0.2	NA	+/- 40.0	AverageRF	
	Tert-butylmethylether	10.0	10.48	0.01	0.735	0.770	4.8	NA	+/- 40.0	AverageRF	
*	1,1-Dichloroethane	10.0	10.01	0.10	0.493	0.493	0.1	NA	+/- 40.0	AverageRF	
	Vinyl acetate	10.0	10.64	0.01	0.977	1.039	6.4	NA	+/- 40.0	AverageRF	
	cis-1,2-Dichloroethene	10.0	10.24	0.01	0.296	0.303	2.4	NA	+/- 40.0	AverageRF	
	1,2-Dichloroethene (total)	20.0	20.26	0.01	0.285	0.289	1.3	NA	+/- 40.0	AverageRF	
	2-Butanone	50.0	54.15	0.01	0.109	0.118	8.3	NA	+/- 40.0	AverageRF	
#	Chloroform	10.0	9.901	0.01	0.485	0.480	-1.0	NA	+/- 20.0	AverageRF	
	1,1,1-Trichloroethane	10.0	9.788	0.01	0.412	0.403	-2.1	NA	+/- 40.0	AverageRF	
	Carbon tetrachloride	10.0	9.273	0.01	0.312	0.289	-7.3	NA	+/- 40.0	AverageRF	
	Benzene	10.0	10.06	0.01	1.068	1.075	0.6	NA	+/- 40.0	AverageRF	
	1,2-Dichloroethane	10.0	9.931	0.01	0.397	0.394	-0.7	NA	+/- 40.0	AverageRF	
	Trichloroethene	10.0	10.08	0.01	0.283	0.285	0.8	NA	+/- 40.0	AverageRF	
#	1,2-Dichloropropane	10.0	10.17	0.01	0.274	0.278	1.7	NA	+/- 20.0	AverageRF	
	Bromodichloromethane	10.0	9.742	0.01	0.340	0.332	-2.6	NA	+/- 40.0	AverageRF	
	cis-1,3-Dichloropropene	10.0	10.16	0.01	0.382	0.389	1.6	NA	+/- 40.0	AverageRF	
	4-methyl-2-pentanone	50.0	54.31	0.01	0.224	0.243	8.6	NA	+/- 40.0	AverageRF	
#	Toluene	10.0	10.05	0.01	1.051	1.057	0.5	NA	+/- 20.0	AverageRF	
	trans-1,3-Dichloropropene	10.0	9.874	0.01	0.491	0.484	-1.2	NA	+/- 40.0	AverageRF	
	1,1,2-Trichloroethane	10.0	10.09	0.01	0.273	0.275	0.9	NA	+/- 40.0	AverageRF	
	Tetrachloroethene	10.0	10.26	0.01	0.429	0.441	2.6	NA	+/- 40.0	AverageRF	
	2-Hexanone	50.0	55.99	0.01	0.219	0.245	12.0	NA	+/- 40.0	AverageRF	
	Dibromochloromethane	10.0	9.487	0.01	0.363	0.344	-5.1	NA	+/- 40.0	AverageRF	
*	Chlorobenzene	10.0	9.865	0.30	1.119	1.103	-1.3	NA	+/- 40.0	AverageRF	
#	Ethylbenzene	10.0	10.10	0.01	1.870	1.889	1.0	NA	+/- 20.0	AverageRF	
	Xylene (total)	30.0	30.72	0.01	0.682	0.699	2.4	NA	+/- 40.0	AverageRF	
	Styrene	10.0	10.15	0.01	1.121	1.138	1.4	NA	+/- 40.0	AverageRF	
*	Bromoform	10.0	9.249	0.10	0.203	0.187	-7.5	NA	+/- 40.0	AverageRF	
*	1,1,2,2-Tetrachloroethane	10.0	10.11	0.30	0.899	0.909	1.1	NA	+/- 40.0	AverageRF	
	1,3-Dichlorobenzene	10.0	10.18	0.01	1.806	1.838	1.8	NA	+/- 40.0	AverageRF	
	1,4-Dichlorobenzene	10.0	9.952	0.01	1.894	1.885	-0.5	NA	+/- 40.0	AverageRF	

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005
Date Analyzed: 03/13/2006

Continuing Calibration Verification Summary
Volatile Organic Compounds

ICAL ID: 03/11/2006MSU
Instrument ID: MSU
File ID: U061934

Column: DB-624

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
1,2-Dichlorobenzene	10.0	10.16	0.01	1.736	1.765	1.6	NA	+/- 40.0	AverageRF	
1,2-dichloroethane-d4	10.0	9.577	0.01	0.280	0.268	-4.2	NA	+/- 40.0	AverageRF	
Toluene-d8	10.0	9.813	0.01	1.309	1.284	-1.9	NA	+/- 40.0	AverageRF	
Bromofluorobenzene	10.0	10.12	0.01	0.768	0.777	1.2	NA	+/- 40.0	AverageRF	

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005

Analysis Run Log
Volatile Organic Compounds

Analysis Method: SW8260

Instrument ID: MSU
Column: DB-624

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
U061908	VSTD00.5	VSTD00.5	03/11/2006	16:07		03/11/2006	16:28
U061909	VSTD001	VSTD001	03/11/2006	16:33		03/11/2006	16:54
U061910	VSTD005	VSTD005	03/11/2006	16:58		03/11/2006	17:19
U061911	VSTD010	VSTD010	03/11/2006	17:24		03/11/2006	17:45
U061912	VSTD020	VSTD020	03/11/2006	17:50		03/11/2006	18:11
U061913	VSTD040	VSTD040	03/11/2006	18:15		03/11/2006	18:36
U061915	QCALTSTD	QCALTSTD	03/11/2006	19:06		03/11/2006	19:27
U061934	VSTD010	VSTD010	03/13/2006	10:00		03/13/2006	10:21
U061935	Laboratory Control Sample	U0313W01LCS	03/13/2006	10:25		03/13/2006	10:46
U061936	Laboratory Control Sample Duplicate	U0313W01LCSD	03/13/2006	10:51		03/13/2006	11:12
U061940	Method Blank	U0313W01	03/13/2006	12:33		03/13/2006	12:54
U061945	1047MW101CL	DH005001	03/13/2006	14:41		03/13/2006	15:02
U061946	LF5GW104CL	DH005005	03/13/2006	15:06		03/13/2006	15:27
U061947	1349MW102CL	DH005006	03/13/2006	15:32		03/13/2006	15:53

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH005
Date Extracted: 03/13/2006

Extraction Prep Log
Volatile Organic Compounds

Extaction Method: SW5030
Analysis Method: SW8260

Extraction Lot: U0313W01
Level:

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	U0313W01	NA	NA	10.00 ML	10.00	NA	
Laboratory Control Sample	U0313W01LCS	NA	NA	10.00 ML	10.00	NA	
Laboratory Control Sample Duplicate	U0313W01LCSD	NA	NA	10.00 ML	10.00	NA	
1047MW101CL	DH005001	03/07/2006	03/08/2006	10.00 ML	10.00	NA	
LF5GW104CL	DH005005	03/07/2006	03/08/2006	10.00 ML	10.00	NA	
1349MW102CL	DH005006	03/07/2006	03/08/2006	10.00 ML	10.00	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH005

Holding Time Summary
Volatile Organic Compounds

Analysis Method: SW8260

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
1047MW101CL	03/07/2006	03/08/2006	N/A	N/A	N/A	N/A	N/A	N/A	03/13/2006	14	6	
LF5GW104CL	03/07/2006	03/08/2006	N/A	N/A	N/A	N/A	N/A	N/A	03/13/2006	14	6	
1349MW102CL	03/07/2006	03/08/2006	N/A	N/A	N/A	N/A	N/A	N/A	03/13/2006	14	6	

Comments:

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: SW8260 Matrix: Water

Instrument ID: MSU

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
ETHYLBENZENE	02/21/2006	0.50	0.394	0.464	0.492	0.466	0.345	0.491	0.471	0.440	0.052	0.16
STYRENE	02/21/2006	0.50	0.334	0.416	0.432	0.426	0.314	0.456	0.424	0.394	0.050	0.15
CIS-1,3-DICHLOROPROPENE	02/21/2006	0.50	0.359	0.409	0.387	0.427	0.304	0.445	0.400	0.403	0.044	0.13
TRANS-1,3-DICHLOROPROPE	02/21/2006	0.50	0.314	0.368	0.387	0.363	0.273	0.396	0.385	0.332	0.043	0.13
1,4-DICHLOROBENZENE	02/21/2006	0.50	0.424	0.505	0.485	0.496	0.387	0.518	0.482	0.466	0.044	0.13
1,2-DICHLOROETHANE	02/21/2006	0.50	0.398	0.478	0.525	0.491	0.364	0.504	0.533	0.453	0.060	0.18
VINYL ACETATE	02/21/2006	0.50	0.395	0.439	0.472	0.487	0.297	0.394	0.446	0.438	0.060	0.18
4-METHYL-2-PENTANONE	02/21/2006	2.50	1.914	2.002	2.102	2.132	1.755	2.160	2.050	1.964	0.13	0.40
TOLUENE	02/21/2006	0.50	0.376	0.453	0.483	0.459	0.349	0.478	0.455	0.434	0.049	0.15
CHLOROBENZENE	02/21/2006	0.50	0.404	0.494	0.486	0.485	0.371	0.502	0.509	0.460	0.050	0.15
DIBROMOCHLOROMETHANE	02/21/2006	0.50	0.406	0.436	0.445	0.441	0.340	0.459	0.424	0.411	0.037	0.11
TETRACHLOROETHENE	02/21/2006	0.50	0.411	0.492	0.486	0.479	0.345	0.517	0.465	0.434	0.055	0.17
XYLENES (TOTAL)	02/21/2006											0.11
CIS-1,2-DICHLOROETHENE	02/21/2006	0.50	0.405	0.468	0.485	0.504	0.385	0.506	0.505	0.449	0.047	0.14
TRANS-1,2-DICHLOROETHEN	02/21/2006	0.50	0.438	0.486	0.518	0.496	0.376	0.528	0.484	0.465	0.049	0.15
TERT-BUTYLMETHYLETHER	02/21/2006	0.50	0.402	0.448	0.465	0.477	0.369	0.507	0.455	0.424	0.044	0.13
1,2-DICHLOROETHENE	02/21/2006											0.14
1,3-DICHLOROBENZENE	02/21/2006	0.50	0.392	0.454	0.465	0.468	0.372	0.512	0.465	0.421	0.046	0.14
CARBON TETRACHLORIDE	02/21/2006	0.50	0.402	0.521	0.537	0.509	0.383	0.484	0.515	0.438	0.059	0.18
2-HEXANONE	02/21/2006	2.50	1.560	1.818	1.934	1.821	1.415	1.848	1.781	1.585	0.18	0.54
ACETONE	02/21/2006	2.50	3.209	3.297	3.482	3.549	3.207	3.560	3.148	2.824	0.25	0.74
CHLOROFORM	02/21/2006	0.50	0.423	0.488	0.521	0.505	0.380	0.521	0.507	0.490	0.051	0.15
BENZENE	02/21/2006	0.50	0.406	0.468	0.488	0.497	0.358	0.502	0.495	0.461	0.051	0.15
1,1,1-TRICHLOROETHANE	02/21/2006	0.50	0.425	0.485	0.499	0.510	0.364	0.504	0.515	0.450	0.053	0.16
BROMOMETHANE	02/21/2006	0.50	0.378	0.604	0.530	0.527	0.417	0.451	0.541	0.561	0.077	0.23
CHLOROMETHANE	02/21/2006	0.50	0.462	0.548	0.541	0.568	0.447	0.578	0.573	0.573	0.052	0.16
CHLOROETHANE	02/21/2006	0.50	0.454	0.522	0.552	0.503	0.377	0.542	0.570	0.510	0.062	0.19
VINYL CHLORIDE	02/21/2006	0.50	0.456	0.536	0.533	0.539	0.421	0.544	0.513	0.480	0.046	0.14
METHYLENE CHLORIDE	02/21/2006	0.50	0.458	0.480	0.509	0.528	0.442	0.575	0.512	0.522	0.042	0.13
CARBON DISULFIDE	02/21/2006	0.50	0.401	0.469	0.511	0.492	0.367	0.537	0.502	0.467	0.058	0.17
BROMOFORM	02/21/2006	0.50	0.383	0.401	0.414	0.383	0.288	0.413	0.407	0.387	0.041	0.12
BROMODICHLOROMETHANE	02/21/2006	0.50	0.420	0.462	0.474	0.471	0.358	0.487	0.498	0.464	0.045	0.14
ISOPROPYLETHER	02/21/2006	0.50	0.408	0.468	0.479	0.492	0.369	0.487	0.484	0.465	0.044	0.13
1,1-DICHLOROETHENE	02/21/2006	0.50	0.405	0.499	0.518	0.491	0.385	0.543	0.542	0.457	0.060	0.18
1,2-DICHLOROPROPANE	02/21/2006	0.50	0.392	0.463	0.467	0.485	0.366	0.507	0.470	0.460	0.048	0.14
2-BUTANONE	02/21/2006	2.50	2.128	2.365	2.395	2.524	2.134	2.396	2.294	2.166	0.15	0.44

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: SW8260 Matrix: Water

Instrument ID: MSU

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
1,1,2-TRICHLOROETHANE	02/21/2006	0.50	0.400	0.491	0.503	0.457	0.378	0.520	0.458	0.443	0.049	0.15
TRICHLOROETHENE	02/21/2006	0.50	0.372	0.511	0.507	0.517	0.396	0.568	0.525	0.444	0.069	0.21
1,1,2,2-TETRACHLOROETHAN	02/21/2006	0.50	0.405	0.460	0.465	0.446	0.358	0.439	0.454	0.437	0.035	0.11
1,2-DICHLOROBENZENE	02/21/2006	0.50	0.424	0.472	0.474	0.481	0.353	0.504	0.470	0.449	0.047	0.14

APPENDIX

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 (360) 636-1068 fax

Columbia Analytical Services INC.
An Employee - Owned Company

March 28, 2006 Service Request No: K0601866

Doug Burnett
CAS/Redding
5090 Caterpillar Road
Redding, CA 96003

RE: Presidio

Dear Doug:

Enclosed are the results of the sample(s) submitted to our laboratory on March 09, 2006. For your reference, these analyses have been assigned our service request number K0601866.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3376.

Respectfully submitted,

Columbia Analytical Services, Inc.

Gregory Salata, Ph.D.
Project Chemist

GS/afs

NELAP Accredited ACIL Seal of Excellence Award 100% Recycled

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

Case Number:

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Treadwell and Rollo, Inc.	**Service Request No.:**	K0601866
Project:	Presidio	**Date Received:**	03/09/06
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Five water samples were received for analysis at Columbia Analytical Services on 03/09/06. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

General Chemistry Parameters

Sulfide, Total by EPA Method 376.2:
The matrix spike recovery of total sulfide for sample 1047MW101CL was outside control criteria because of suspected matrix interference. A Matrix Spike Duplicate (MSD) was also analyzed, but produced similar results. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. The results of the original analysis are reported. No further corrective action was appropriate.

No other anomalies associated with the analysis of these samples were observed.

Approved by _____ **Date** 3/28/06

Columbia Analytical Services INC.
An Employee - Owned Company

SUBCONTRACT **CHAIN OF CUSTODY**

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

SR#: _____

PAGE 1 OF 1 COC # _____

PROJECT NAME: PRESIDIO
PROJECT NUMBER:
PROJECT MANAGER: DOUG BURNETT
COMPANY/ADDRESS: CAS/REDDING
CITY/STATE/ZIP:
E-MAIL ADDRESS:
PHONE #: FAX#:
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐	Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐	Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐ ☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐	PCB's Aroclors ☐ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐	PAHS 8310 ☐ SIM ☐	Metals, Total or Dissolved (See list below)	Cyanide ☐	Hex-Chrom ☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020 ☐ AOX 1650 ☐ 506 ☐	SULFIDE	MBAS (E425.1)			REMARKS
1047MW101CL	3/7/06	1115	1																	X					
610GW103CL	3/7/06	1445	2																	X					
1065PZ5ARCL	3/7/06	1400	3																	X					
231GW21CL	3/8/06	1358	4																	X					
DAESP03CL	3/8/06	1000	5																		X				

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date _____

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

CONTACT REDDING FOR REPORTING DETAILS

RELINQUISHED BY:		RECEIVED BY:		RELINQUISHED BY:		RECEIVED BY:	
Signature	Date/Time 3/8/06 1845	Signature	Date/Time 3/9/06 0900	Signature	Date/Time	Signature	Date/Time
Printed Name P. BINS	Firm CAS VIA FED-EX	Printed Name BLUK	Firm CAS	Printed Name	Firm	Printed Name	Firm

RCOC #1 06/03

Columbia Analytical Services Inc.
Cooler Receipt and Preservation Form

PC Greg

SHORT HOLD TIME

Project/Client _____ Service Request K06 01866

Cooler received on 3/9/06 and opened on 3/9/06 by _____

1. Were custody seals on outside of coolers? FX Y (N)
   If yes, how many and where? _____
2. Were custody seals intact? ~~Y N~~
3. Were signature and date present on the custody seals? ~~Y N~~
4. Is the shipper's airbill available and filed? If no, record airbill number: _____ (Y) N
5. COC#
   Temperature of cooler(s) upon receipt: (°C) 1.6
   Temperature Blank: (°C) N/P
   Were samples hand delivered on the same day as collection? ~~Y N~~
6. Were custody papers properly filled out (ink, signed, etc.)? ~~Y~~ N
7. Type of packing material present ICE
8. **Did all bottles arrive in good condition (unbroken)?** (Y) N
9. Were all bottle labels complete (i.e analysis, preservation, etc.)? ~~Y~~ N
10. Did all bottle labels and tags agree with custody papers? ~~Y~~ N
11. **Were the correct types of bottles used for the tests indicated?** ~~Y~~ N
12. Were all of the preserved bottles received at the lab with the appropriate pH? (Y) N
13. Were VOA vials checked for absence of air bubbles, and if present, noted below? ~~Y N~~
14. Were the 1631 Mercury bottles checked for absence of air bubbles, and if present, noted below? ~~Y N~~
15. Did the bottles originate from CAS/K or a branch laboratory? Y (N)
16. **Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?** ~~Y N~~
17. Was C12/Res negative? ~~Y N~~

Explain any discrepancies: _____

RESOLUTION: _____

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Treadwell and Rollo, Inc.
Project Name : Presidio
Project Number : NA
Sample Matrix : WATER

Service Request : K0601866
Date Collected : 03/08/06
Date Received : 03/09/06

Methylene Blue Active Substances (MBAS)

Units : mg/L (ppm)
Basis : NA

Analysis Method : 425.1
Test Notes :

Sample Name	Lab Code	MRL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
DAESP03CL	K0601866-005	0.05	1	03/09/06 10:45	0.05	
Method Blank	K0601866-MB	0.05	1	03/09/06 10:45	ND	

00010

Report By: Agreer

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Treadwell and Rollo, Inc.
Project Name : Presidio
Project Number : NA
Sample Matrix : WATER

Service Request : K0601866
Date Collected : 03/08/06
Date Received : 03/09/06
Date Prepared : NA
Date Analyzed : 03/09/06

Duplicate Summary
Inorganic Parameters

Sample Name : DAESP03CL
Lab Code : K0601866-005DUP
Test Notes :

Units : mg/L (ppm)
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Methylene Blue Active Substances (MBAS)	425.1	0.05	0.05	ND	NC	NC	

Report By: Agreer

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Treadwell and Rollo, Inc.
Project Name : Presidio
Project Number : NA
Sample Matrix : WATER

Service Request : K0601866
Date Collected : 03/08/06
Date Received : 03/09/06
Date Prepared : NA
Date Analyzed : 03/09/06

Matrix Spike Summary
Inorganic Parameters

Sample Name : DAESP03CL
Lab Code : K0601866-005MS
Test Notes :

Units : mg/L (ppm)
Basis : NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Methylene Blue Active Substances (MBAS)	425.1	0.05	0.30	0.05	0.32	90	60-130	

Report By: Agreer

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	Treadwell and Rollo, Inc.	**Service Request :**	K0601866
Project Name :	Presidio	**Date Collected :**	NA
Project Number :	NA	**Date Received :**	NA
Sample Matrix :	WATER	**Date Prepared :**	NA
		Date Analyzed :	03/09/06

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name :	Laboratory Control Sample	Units :	mg/L (ppm)
Lab Code :	K0601866-LCS	Basis :	NA
Test Notes :			

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Methylene Blue Active Substances (MBAS)	None	425.1	0.20	0.19	95	60-130	

Report By: Agreer

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Treadwell and Rollo, Inc.
Project : Presidio

Service Request : K0601866
Date Collected : NA
Date Received : NA

Methylene Blue Active Substances (MBAS)
EPA Method 425.1
Units: mg/L (ppm)

CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	03/09/06	0.30	0.28	93
CCV2 Result	03/09/06	0.30	0.28	93

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	03/09/06	0.05	ND
CCB2 Result	03/09/06	0.05	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Treadwell and Rollo, Inc.
Project Name : Presidio
Project Number : NA
Sample Matrix : WATER

Service Request : K0601866
Date Collected : 03/07,08/06
Date Received : 03/09/06

Sulfide, Total

Units : mg/L (ppm)
Basis : NA

Analysis Method : 376.2
Test Notes :

Sample Name	Lab Code	MRL	Dilution Factor	Date Analyzed	Result	Result Notes
1047MW101CL	K0601866-001	0.05	1	03/13/06	ND	
610GW103CL	K0601866-002	0.05	1	03/13/06	ND	
1065PZ5ARCL	K0601866-003	0.05	1	03/13/06	ND	
231GW21CL	K0601866-004	0.05	1	03/13/06	ND	
Method Blank	K0601866-MB	0.05	1	03/13/06	ND	

Report By: Agreer

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Treadwell and Rollo, Inc.
Project Name : Presidio
Project Number : NA
Sample Matrix : WATER

Service Request : K0601866
Date Collected : 03/07/06
Date Received : 03/09/06
Date Prepared : NA
Date Analyzed : 03/13/06

Duplicate Summary
Inorganic Parameters

Sample Name : 1047MW101CL
Lab Code : K0601866-001DUP
Test Notes :

Units : mg/L (ppm)
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Sulfide, Total	376.2	0.05	ND	ND	ND	-	

00016

Report By: Agreer

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Treadwell and Rollo, Inc.
Project Name : Presidio
Project Number : NA
Sample Matrix : WATER

Service Request : K0601866
Date Collected : 03/07/06
Date Received : 03/09/06
Date Prepared : NA
Date Analyzed : 03/13/06

Matrix Spike Summary
Inorganic Parameters

Sample Name : 1047MW101CL
Lab Code : K0601866-001MS
Test Notes :

Units : mg/L (ppm)
Basis : NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Sulfide, Total	376.2	0.05	1.86	ND	1.35	73	75-125	*

Report By: Agreer

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	Treadwell and Rollo, Inc.	**Service Request :**	K0601866
Project Name :	Presidio	**Date Collected :**	NA
Project Number :	NA	**Date Received :**	NA
Sample Matrix :	WATER	**Date Prepared :**	NA
		Date Analyzed :	03/13/06

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name :	Laboratory Control Sample	Units :	mg/L (ppm)
Lab Code :	K0601866-LCS	Basis :	NA
Test Notes :			

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Sulfide, Total	None	376.2	1.86	1.78	96	85-115	

Report By: Agreer

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Treadwell and Rollo, Inc.
Project : Presidio

Service Request : K0601866
Date Collected : NA
Date Received : NA

Sulfide, Total
EPA Method 376.2
Units: mg/L (ppm)

CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	03/13/06	1.86	1.83	98
CCV2 Result	03/13/06	1.86	1.83	98

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	03/13/06	0.05	ND
CCB2 Result	03/13/06	0.05	ND

Work Request # (Original K1846)

Tier: V

Date Analyzed: 3/13/06

Analyst: S. Hopkins

Analysis: 376.2

DATA QUALITY REPORT
INORGANICS

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1.	Is the method name and number correct and appropriate?	yes/no/NA
2.	Holding times met for all analyses and for all samples?	yes/no/NA
3.	Are calculations correct?	yes/no/NA
4.	Is the reporting basis correct? (Dry Weight)	yes/no/NA
5.	All quality control criteria met?	yes/no/NA
a.	Is the calibration curve correlation coefficient ≥ 0.995?	yes/no/NA
b.	MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?	yes/no/NA
c.	Are ICVs, CCVs, and CCBs all within acceptance limits?	yes/no/NA
d.	Are results for methods blanks all ND?	yes/no/NA
e.	Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)	yes/no/NA
f.	Are all exceptions explained?	yes/no/NA
6.	Are all service requests that apply attached?	yes/no/NA
7.	Are all samples labelled correctly?	yes/no/NA
8.	Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample)	yes/no/NA
9.	Are detection limits and units reported correctly?	yes/no/NA
10.	Are proper Analysis/Extraction stickers included on report?	yes/no/NA
11.	Is the unused space on the benchsheet crossed out?	yes/no/NA
12.	Was analysis turned in by the due date? (n-2) (If not record SR#)	yes/no/NA

COMMENTS:

Final Approved by: [signature] Date: 3/14/06

DQREPORT

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Batch
KA0601096

Work Order #.: K1866 Method: 376.2
Analysis: Analysis for Total Sulfide

	STD1	STD 2	STD 3	STD 4	STD 5	STD 6				
									(R) =	0.9995
Conc. (mg/L)	0.000	0.047	0.465	0.930	1.395	1.860			Slope =	0.7119
Absorbance	0.000	0.036	0.359	0.691	1.018	1.316			Y Int. =	0.0127

Date Prep'd	Sample #	Dil. Factor	Absorb. @ 650 nm	Conc. from Curve (mg/L)	Actual Conc. (mg/L)	Initial Wt./Vol. (g) / (ml)	Final Vol. (ml)	mg/L - mg/kg as rec'd	% Solid	mg/kg Dry Wt.
3/13/2006	ICV	1	1.457	2.0288	2.0288	40	40	2.03		
3/13/2006	ICB	1	0.000	-0.0178	<0.05	40	40	<0.05		
3/13/2006	CCV	1	1.313	1.8265	1.8265	40	40	1.83		
3/13/2006	CCB	1	-0.001	-0.0193	<0.05	40	40	<0.05		
3/13/2006	MB	1	0.002	-0.0150	<0.05	20	20	<0.05		
3/13/2006	LCS	1	1.282	1.7830	1.7830	20	20	1.78		
3/13/2006	K1866-1	1	0.018	0.0074	<0.05	20	20	<0.05		
3/13/2006	1866-1D	1	0.022	0.0131	<0.05	20	20	<0.05		
3/13/2006	1866-1MS	1	0.976	1.3531	1.3531	20	20	1.35		
3/13/2006	1866-1MSD	1	0.959	1.3293	1.3293	20	20	1.33		
3/13/2006	1866-2	1	0.004	-0.0122	<0.05	20	20	<0.05		
3/13/2006	1866-3	1	0.012	-0.0010	<0.05	20	20	<0.05		
3/13/2006	1866-4	1	0.006	-0.0094	<0.05	20	20	<0.05		
3/13/2006	CCV2	1	1.312	1.8251	1.8251	40	40	1.83		
3/13/2006	CCB2	1	0.002	-0.0150	<0.05	40	40	<0.05		

CCV =2ml*37.2g/l/40ml=1.86mg/l %REC = 98, 98

LCS =1ml*37.2mg/l/20ml=1.86mg/l %REC = 96

ICV = 2.25ml*37.2mg/L/40ml = 2.09mg/L %REC = 97

MS/MSD = 1ml*37.2mg/L/20ml = 1.86mg/L %REC = 73, 72

K1866-1/1d x = ND RPD = --

STD ID# s2/2-1-A CONC. = 3720

Distilled by:	N/A	Date Distilled:	N/A
Analyzed By:	SAN	Date Analyzed:	3/13/06 1000
Reviewed By:	[illegible]	Date Reviewed:	3/14/06

COLUMBIA ANALYTICAL SERVICES, INC.

Work Order #.:

Analysis: Analysis for Total Sulfide

Method: 376.2

Prep Date : 3/13/2006

	STD1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7			
Conc. (mg/L)	0.000	0.047	0.465	0.930	1.395	1.860	2.325			
Absorbance	0.000	0.036	0.359	0.691	1.018	1.316	1.592			

Sample Name Lab Code	Initial Wt./Vol. (g) or (ml)	Dilution Factor	Abs @ 650 nm	% Solids
ICV	40	1	1.457	
ICB	40	1	0.000	
CCV	40	1	1.313	
CCB	40	1	-0.001	
MB	20	1	0.002	
LCS	20	1	1.282	
K1866-1	20	1	0.018	
1866-1D	20	1	0.022	
1866-1MS	20	1	0.976	
1866-1MSD	20	1	0.959	
1866-2	20	1	0.004	
1866-3	20	1	0.012	
1866-4	20	1	0.006	
CCV2	40	1	1.312	
CCB2	40	1	0.002	
		1		
		1		
		1		
		1		
		1		
		1		
		1		
		1		
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		1		
		1		

Sample Name Lab Code	Initial Wt./Vol. (g) or (ml)	Dilution Factor	Abs @ 650 nm	% Solids
		1		
		1		
		1		
		1		
		1		
		1		
		1		
		1		
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		1		
		1		
		1		

376.2 K0601864

3/13/06

DU520 S/N: 0112U2001732 1.03
13-MAR-06 10:47:54 SCA
Wavelength: 670.0 nm
Formula: A=a+bC a: 0.0225 b: 0.6912

r2=0.998 Var=0.0008

mg/L	Net A
0.0000	0.000
0.0470	0.036
0.4650	0.359
0.9300	0.691
1.3950	1.018
1.8600	1.316
2.3250	1.592

M.S
3/14/06

SAD
3/13/06

DU520 S/N: 0112U2001732 1.03
13-MAR-06 10:48:23 SCA Group 0011
Wavelength: 670.0 nm
Formula: A=a+bC a: 0.0225 b: 0.6912

Sample		Net A	Dil X	mg/L
0001	ICB	0.000	1.0000	-0.03
0002	ICV	1.457	1.0000	2.08
0003	CCV	1.313	1.0000	1.87
0004	CCB	-0.001	1.0000	-0.03
0005	MB ~~K1866~~	0.002	1.0000	-0.03
0006	LCS -1d	1.282	1.0000	1.82
0007	K1866-1 -1ms	0.018	1.0000	-0.01
0008	-1d -1msd	0.022	1.0000	-0.00
0009	-1ms -2	0.976	1.0000	1.38
0010	-1msd -3	0.959	1.0000	1.35
0011	-2	0.004	1.0000	-0.03
0012	-3	0.012	1.0000	-0.01
0013	-4	0.006	1.0000	-0.02
0014	CCV2	1.312	1.0000	1.87
0015	CCB2	0.002	1.0000	-0.03

SAH 3/13/06

① SAH 3/13/06

M.S. 3/14/06

Work Request #: (K1866)

Tier: V

Date Analyzed: 3/9/06

Analyst: SP

Analysis: MBAS

DATA QUALITY REPORT
INORGANICS

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate? yes/no/NA
2. Holding times met for all analyses and for all samples? yes/no/NA
3. Are calculations correct? yes/no/NA
4. Is the reporting basis correct (Dry Weight)? yes/no/NA
5. All quality control criteria met? yes/no/NA
   a. Is the calibration curve correlation coefficient ≥0.995? yes/no/NA
   b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes analyzed at proper frequency? yes/no/NA
   c. Are ICVs, CCVs, and CCBs, all within acceptance limits? yes/no/NA
   d. Are results for method blanks all ND? yes/no/NA
   e. Are all QC samples within acceptance criteria? (LCS %Rec, MS/DMS %Rec, DUP or MS/DMS RPDs, etc.) yes/no/NA
   f. Are all exceptions explained? yes/no/NA
6. Are all service requests that apply attached? yes/no/NA
7. Are all samples labeled correctly? yes/no/NA
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample) yes/no/NA
9. Are detection limits and units reported correctly? yes/no/NA
10. Are proper Analytical Batch stickers included on report? yes/no/NA
11. Is the unused space on the benchsheet crossed out? yes/no/NA
12. Was analysis turned in by the due date (n-2)? If not, record SR#. yes/no/NA

COMMENTS:

Final Approval By: [signature] Date: 3/10/06

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Batch
KA0600734

Work Order #.: K1866 Method: EPA 425.1

Analysis: Methylene Blue Active Substances (MBAS)

	STD1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7	STD 8	STD 9	STD 10	(R) =	0.9961
Conc. (ug LAS)	0.000	5.00	10.00	15.00	25.00	30.00	35.00	40.00	45.00	50.00	Slope =	0.0108
Absorbance	0.000	0.062	0.109	0.146	0.266	0.341	0.369	0.413	0.466	0.573	Y Int. =	-0.0021

Sample Number	ICV	ICB	CCV-1	CCB-1	MB	1866-1	1866-1D	1866-1MS	1866-1MSD
Dilution Factor	1	1	1	1	1	1	1	1	1
Absorbance @ 652 nm	0.208	0.013	0.306	0.017	0.015	0.127	0.111	0.345	0.361
Initial Volume	100	100	100	100	100	250	250	100	100
Final Volume	100	100	100	100	100	100	100	100	100
Concentration from Curve (ug LAS)	19.3686	1.3891	28.4044	1.7579	1.5735	11.9002	10.4249	32.0003	33.4755
Actual Conc. (mg/L)	0.19	<0.05	0.28	<0.05	<0.05	0.05	<0.05	0.32	0.33

Sample Number	CCV-2	CCB-2
Dilution Factor	1	1
Absorbance @ 652 nm	0.303	0.004
Initial Volume	100	100
Final Volume	100	100
Concentration from Curve (ug LAS)	28.1278	0.5593
Actual Conc. (mg/L)	0.28	<0.05

Sample Number									
Dilution Factor									
Absorbance @ 652 nm									
Initial Volume									
Final Volume									
Concentration from Curve (ug LAS)									
Actual Conc. (mg/L)									

ICV = 2 mL x 10 mg/L / 100mL = 0.20mg/L	**CCV** = 3 mL x 10 mg/L / 100 mL = 0.30mg/L	**Spike** = 3 mL x 10 mg/L / 100 mL = 0.30 mg/L
% REC. =95	% REC. =93, 93	% REC. =90, 93
ID #: Form/1-52-K	ID #: Form/1-52-K	ID #: Form/1-52-K

Comments:

K1866-1+1D x =NC RPD = NC

Analyzed By:	SP	Date Analyzed:3/9/06	Start Time:1045
Reviewed By:	[signature]	Date Reviewed: 3/10/06	

D06 3/11/06

COLUMBIA ANALYTICAL SERVICES, INC.

Work Order #.: K18660 Method: EPA 425.1

Analysis: Methylene Blue Active Substances (MBAS)

	STD1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7	STD 8	STD 9	STD 10
Conc. (ug LAS)	0.000	5.00	10.00	15.00	25.00	30.00	35.00	40.00	45.00	50.00
Absorbance	0.000	0.062	0.109	0.146	0.266	0.341	0.369	0.413	0.466	0.573

(R) =	0.9961
Slope =	0.0108
Y Int. =	-0.0021

Sample Number	ICV	ICB	CCV-1	CCB-1	MB	18660-5	18660-5D	18660-5MS	18660-5MSD
Dilution Factor	1	1	1	1	1	1	1	1	1
Absorbance @ 652 nm									
Initial Volume	100	100	100	100	100	250	250	100	100
Final Volume	100	100	100	100	100	100	100	100	100
Concentration from Curve (ug LAS)									
Actual Conc. (mg/L)									

Sample Number	CCV-2	CCB-2							
Dilution Factor									
Absorbance @ 652 nm									
Initial Volume	100	100							
Final Volume	100	100							
Concentration from Curve (ug LAS)									
Actual Conc. (mg/L)									

Sample Number									
Dilution Factor									
Absorbance @ 652 nm									
Initial Volume									
Final Volume									
Concentration from Curve (ug LAS)									
Actual Conc. (mg/L)									

ICV = 2 mL x 10 mg/L / 100mL = 0.20mg/L	**CCV** = 3 mL x 10 mg/L / 100 mL = 0.30mg/L	**Spike** = 3 mL x 10 mg/L / 100 mL = 0.30 mg/L
% REC. =	% REC. =	% REC. =
ID #: Form/1- 52-K	ID #: Form/1-	ID #: Form/1-

Comments:

Analyzed By: SP	Date Analyzed: 3/9/06 Start Time: 1045
Reviewed By: MJF	Date Reviewed: 3/10/06

K18666 MBAS
3/9/06 SP

ICV	0.208	Abs	652	nm	09-MAR-2006	17:14:24	SH	040400007438
ICB	0.013	Abs	652	nm	09-MAR-2006	17:18:10	SH	040400007438
CCV-1	0.306	Abs	652	nm	09-MAR-2006	17:19:28	SH	040400007438
CCB-1	0.017	Abs	652	nm	09-MAR-2006	17:21:53	SH	040400007438
MB	0.015	Abs	652	nm	09-MAR-2006	17:22:00	SH	040400007438
K18666-1	0.127	Abs	652	nm	09-MAR-2006	17:24:20	SH	040400007438
-1D	0.111	Abs	652	nm	09-MAR-2006	17:24:36	SH	040400007438
-1MS	0.345	Abs	652	nm	09-MAR-2006	17:30:37	SH	040400007438
-1MSD	0.361	Abs	652	nm	09-MAR-2006	17:31:00	SH	040400007438
CCV-2	0.303	Abs	652	nm	09-MAR-2006	17:33:36	SH	040400007438
CCB-2	0.004	Abs	652	nm	09-MAR-2006	17:38:11	SH	040400007438

MB
3/10/06

5090 Caterpillar Road Redding, California 96003 (530) 244-5227 ph (530) 244-4109 fax

Columbia Analytical Services INC.
An Employee - Owned Company

April 27, 2006

RECEIVED
MAY 0 2 2006
TREADWELL & ROLLO

Mr. Josh Graber
Treadwell & Rollo, Inc.
555 Montgomery St., Suite 1300
San Francisco, CA 94111

RE: Presidio

Dear Josh:

Enclosed are the results of the samples submitted to our laboratory on March 30, 2006. For your reference, these analyses have been assigned our service request number DH009.

All analyses were performed according to our Laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

If you have any questions, please call me at (530) 244-5269.

Respectfully submitted,

Columbia Analytical Services, Inc.

Douglas Burnett
Project Manager

TABLE OF CONTENTS

CAS Service Request: DH009
CAS Tier Level: III

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Current CAS Redding Accreditation Program s

Federal and National Programs

- U.S Air Force, Air Force Center for Environmental Excellence (AFCEE)
  Approved laboratory for Wastewater and Hazardous Waste
- U.S. Army Corps of Engineers – MRD, HTRW Mandatory Center of Expertise
  Validated for Wastewater and Hazardous Waste
- Department of the Navy, Naval Facilities Engineering Service Center (NFESC)
  Approved laboratory for Wastewater and Hazardous Waste

State and Local Programs

- State of Arizona, Department of Health Services
  Approved laboratory for Hazardous Waste
  Lab ID# AZ0604
- State of Arkansas, Department of Environmental Quality
  Approved laboratory for Wastewater and Hazardous Waste
  Lab ID# None
- State of California, Department of Health Services, National Environmental Laboratory Accreditation Program (NELAP)
  Approved laboratory for Drinking Water, Wastewater and Hazardous Waste
  Lab ID# 01105CA
  - Los Angeles County Sanitation District
    Approved laboratory for Wastewater
    Lab ID# 10243
- State of Florida, Department of Health (NELAP)
  Approved Environmental Testing Laboratory for Wastewater and Hazardous Waste
  Lab ID# E87203
- State of Kansas, Department of Health and Environment (NELAP)
  Approved laboratory for Hazardous Waste
  Lab ID# E-10323
- State of Massachusetts, Department of Environmental Protection
  Approved laboratory for Drinking Water, Wastewater
  Lab ID# M-CA025
- State of Oklahoma, Department of Environmental Quality
  Approved laboratory for General Water Quality/Sludge Testing
  Lab ID# 9952
- State of Oregon, Department of Human Resources, Health Division (ORELAP)
  Approved laboratory for Drinking Water, Wastewater, and Hazardous Waste
  Lab ID# CA200004
- State of Utah, Department of Health, Division of Laboratory Services (NELAP)
  Approved laboratory for Wastewater and Hazardous Waste
  Lab ID# QUAL1
- State of Washington, Department of Ecology, Environmental Laboratory Accreditation Program
  Approved laboratory for Wastewater and Hazardous Waste
  Lab ID# C037
- State of Wisconsin, Department of Ecology
  Approved laboratory for Wastewater and Hazardous Waste
  Lab ID# 999767340

Updated 10/7/2005

Organic Department Qualifiers

Organic Sample ID Qualifiers

A This qualifier indicates that a TIC is a suspected aldol-condensation product

B Used when the analyte is found in the associated blank as well as the sample, indicating possible blank contamination. The data user should evaluate these compounds and their amounts carefully.

C The "C" flag indicates the presence of this compound has been confirmed by the GC/MS analysis.

D This qualifier is used for all the compounds identified in an analysis at a secondary dilution factor. "D" qualifiers are used only for the samples reported at more than one dilution factor.

E This flag indicates that the value reported exceeds the linear calibration range for that compound. Therefore, the sample should be reanalyzed at the appropriate dilution. The "E" qualified amount is an estimated concentration, and the results of the dilution will be reported on a separate Form I.

I The qualifier indicates that the reporting limit to the "I" qualifier has been raised. It is used when the chromatographic interference prohibits detection of a compound at a level below the concentration expressed on the Form I.

J Indicates an estimated value. It is used when the data indicates the presence of a target compound below the reporting limit or the presence of a Tentatively Identified Compound (TIC).

N This qualifier indicates presumptive evidence of a compound. This flag is only used for Tentatively Identified Compounds (TIC), where the identification is based on a mass spectral library research. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the "N" qualifier is not used.

P This qualifier is used for target analytes when there is a greater than 40% difference for detected concentrations between the two columns or detectors. The concentration value is reported on Form I and flagged with a "P".

U Indicates the compound was analyzed for but not detected. The number adjacent to the "U" qualifier indicates the reporting limit for that compound. The reporting limit can vary from sample to sample depending on dilution factors or percent moisture adjustments when indicated.

Z Indicates an estimated value between the method detection limit and zero.

Organic Sample ID Qualifiers

These qualifiers may be appended to the Lab Sample ID and/or the Client Sample ID for organic analysis.

DL Diluted reanalysis. Indicates that the results were determined in an analysis of a secondary dilution of a sample or extract. A digit to indicate multiple dilutions of the sample or extract may follow the "DL" suffix. The results of more than one diluted reanalysis may be reported.

MS Matrix spike (may be followed by a digit to indicate multiple matrix spikes within a sample set).

MSD Matrix spike duplicate (may be followed by a digit as noted above in the MS explanation).

R Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. If followed by a digit, indicates multiple reanalysis of the sample at the same dilution.

RE Re-extraction analysis. The sample was re-extracted and reanalyzed. May be followed by a digit to indicate multiple re-extracted analysis of the same sample at the same dilution.

Inorganic Data Qualifiers
Cations

C (Concentration) Qualifier:

B -- The reported value obtained was less than the CRDL, but greater than or equal to the MDL/IDL.

U -- The value was less than the MDL/IDL or was not detected.

Q Qualifier:

E -- The reported value is estimate because of interference.

M -- Duplicate injection precision was not met. (Two analyses of the sample did not agree).

N -- Spiked sample recovery not within control limits.

S -- The reported value was determined by the Method of Standard Additions (MSA).

J -- Post digestion spike for Graphite Furnace AA analyses is out of control limits (85% - 115%), while sample absorbance is less than 50% of spike absorbance.

***** -- Duplicate analysis not within control limits.

+ -- Correlation coefficient for the MSA is less than 0.995.

M (Method) Qualifier:

P -- ICP

A -- Flame AA

F -- Furnace AA

CV -- Cold Vapor

AV -- Automated Cold Vapor

NR -- Analyte was not required

C -- Manual spectrophotometric

RRL (Reliable Reporting Limit):

RRL -- The reliable reporting limit was established to qualify analytical results for which no CRDL was Available, or did not apply. The RRL is a concentration approximately four times the Method Detection Limit (MDL).

Sample ID Cross-reference Table

CAS Lab Sample ID		Client Sample ID	Receive Date	Collect Date	Sample Matrix	Additional Description
FS = Field Sample; LCD = Lab Control Sample Duplicate; LCS = Lab Control Sample; NON = Non-Sample Type (Internal Admin); TB = Trip Blank						
DH009001	FS	LF01GW01CL	03/09/06	03/08/06 15:30	Water	
DH009002	FS	DAESP03CL	03/09/06	03/08/06 10:00	Water	
DH009003	FS	BB3SW104CL	03/09/06	03/08/06 13:30	Water	
DH009004	FS	231GW21CL	03/09/06	03/08/06 13:58	Water	

The above lab sample ID's and cross reference information apply to samples as received by the laboratory. Modifiers to the lab sample ID may be added for internal tracking purposes. Any modified sample ID will be reflected in the appropriate case narrative only.

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Treadwell & Rollo	**Service Request No.:**	DH009
Project:	Presidio of San Francisco	**Date Received:**	3/9/06
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III validation deliverables.

Sample Receipt

Four water samples, plus a trip blank, were received for analysis at Columbia Analytical Services on 3/9/06.

No discrepancies were noted upon initial sample inspection. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

General Chemistry Parameters (160.1, 300.0, 310.1, 353.2, 354.1, 9014, 9060)

Method Reporting Limits:
The following samples required dilution due to the presences of elevated levels of target analyte.

- LF01GW01CL, BB3SW104CL and 231GW21CL for Alkalinity.
- LF01GW01CL and BB3SW104CL for Chloride.
- LF01GW01CL, DAESP03CL and BB3SW104CL for Nitrate.
- DAESP03CL for Nitrite.

The reporting limits are adjusted to reflect the dilutions.

Total and Dissolved Metals (6010/6020)

Lab Control Sample Exceptions:
The upper control criterion was exceeded for the following analyte in Laboratory Control Sample (LCS) LCSW-0315 and in LCSDW-0315: Iron. Although the result exceeds the established upper control limit of 120%, it meets the laboratory's in-house control limit of 124%. The elevated recovery equates to a high bias. The sample data is not significantly affected.

Diesel Range Organics by EPA Method 8015B

Continuing Calibration Verification Exceptions:
The upper control criterion was exceeded for the following analytes in the ending Continuing Calibration Verification (CCV) G0406020 analyzed on 4/6/06: TPH-Diesel and Octacosane. The associated samples were reanalyzed on 4/8/06; similar results were obtained for the ending CCV, indicating possible matrix interference from the samples. Since the apparent problem equates to a potential high bias, the data quality is not affected.

Lab Control Sample Exceptions:
The Laboratory Control Sample DWB10314LCS was spiked with Diesel fuel only.

Approved by: _____ **Date:** 4-29-06

Sample Notes and Discussion:
Compounds were detected in sample 231GW21CL at the same elution time as Diesel fuel; however, the pattern of peaks did not match that of Diesel fuel. The pattern more closely resembles that of Stoddard Solvent.

Gasoline Range Organics by EPA Method 8015B

No anomalies associated with the analysis of these samples by the above-mentioned method were observed.

Organochlorine Pesticides by EPA Method 8081A

Second Source Exceptions:
The upper control criterion was exceeded for the following analytes in Initial Calibration Verification (ICV) D0313016: Endrin Ketone. The field samples analyzed in this sequence did not contain the analyte in question. Since the apparent problem equates to a potential high bias, the data quality is not affected.

Surrogate Exceptions:
The control criteria were exceeded for the following surrogate in Laboratory Control Sample PWB10329LCS and Control Sample Duplicate PWB10329LCSD: Decachlorobiphenyl. The surrogate outlier is flagged accordingly. All target analyte recoveries were within acceptance criteria for the LCS and LCSD, indicating the analytical batch was in control.

The control criteria were exceeded for the following surrogates in DAESP03CL and DAESP03CLRE: Decachlorobiphenyl and Tetrachloro-m-xylene. Since the problem may indicate a potential bias in the analytical batch, all associated field samples were re-extracted and reanalyzed past the recommended hold time. Note the results for the field samples were comparable for both determinations, which indicates the problem with the initial analysis was restricted to the surrogate recovery. Therefore, the results from the original and the reanalysis are reported.

PCB Aroclors by EPA Method 8082

Surrogate Exceptions:
The control criteria were exceeded for the following surrogate in LCS PWB10313LCS: Decachlorobiphenyl. The associated spike recoveries of target compounds were in control, indicating the analysis was in control. The surrogate outlier is flagged accordingly. The data quality is not affected. No further corrective action was taken.

The specific project control criteria were exceeded for the following surrogate in sample DAESP03CL due to suspected matrix interferences: Decachlorobiphenyl. The recovery was within the in-house statistical control criteria. A re-extraction and reanalysis was performed past the recommended hold time and produced similar result. Note the results for the field samples were comparable for both determinations, which indicates the problem with the initial analysis was restricted to the surrogate recovery. Both sets of results are reported. An "RE" suffix is appended to the sample ID to designate the results from the reanalysis.

Volatile Organic Compounds by EPA Method 8260B

Initial Calibration Exceptions:
The primary evaluation criterion was exceeded for the following analytes in Initial Calibration (ICAL) ID 03/15/2006: Chloroethane and Acetone. In accordance with CAS standard operating procedures, the alternative evaluation specified in the EPA method was performed using the mean Relative Standard Deviation (RSD) of all analytes in the calibration. The result of the mean RSD calculation was 6.38%. The calibration meets the alternative evaluation criteria. Note that CAS/Redding policy does not allow the use of averaging if any analyte in the ICAL exceeds 40% RSD.

Approved by: _____ **Date:** 4-29-06

Elevated Method Reporting Limits:
Sample 231GW21CL required dilution due to the presence of elevated levels of target analyte. The reporting limits are adjusted to reflect the dilution.

Polynuclear Aromatic Hydrocarbons by EPA Method 8310

Continuing Calibration Verification Exceptions:
The upper control criterion was exceeded for the following analytes in Continuing Calibration Verification (CCV) I0325003 and I0325012 for the Fluorescence detector: Fluorene. The field samples analyzed in this sequence did not contain the analyte in question. Fluorene met the acceptance criteria for the UV detector. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

Matrix Spike Exceptions:
Insufficient sample volume was received to perform a Matrix Spike/Matrix Spike Duplicate (MS/MSD). A Laboratory Control Sample/Duplicate Laboratory Control Sample (LCS/DLCS) was analyzed in order to report precision data.

Total Sulfide and MBAS (376.2, 425.1)

The analytical results for these tests may be found in Service Request DH005.

Approved by: _____ **Date:** 4-29-06

CHAIN OF CUSTODY DOCUMENTATION

S260073

Treadwell&Rollo

Environmental and Geotechnical Consultants

555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2026
Page: ___ of DH009
1 of 2

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTS John DeJong
Recorder (signature required):
Sent to Laboratory (Name): CTF

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

REQUESTED ANALYSES

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Water	Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) MTBE	General Chemistry [2]	OCPs (8081) PCB's	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other)	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	Cyanide	MBAS	Total hardness	Molybdenum	DBS Metals 23	Total Metals 23	Cyanide	COMMENTS / NOTES
LF01GW01CL	3/8/06	1530	1		X				1	1	1																		
DAESP03CL	↓	1000	2		X		6		2	1	7															X			
BB3SW104CL	↓	1330	3		X		3		2		2								X										

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (**Other** -

RELINQUISHED BY:	DATE:	RECEIVED BY: P. BINS CAS 1705	DATE: 3/8/06
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:
RELINQUISHED BY: P. BINS CAS VIA GSO 1845	DATE: 3/8/06	RECEIVED BY: nepham	DATE: 3/9/6
PRINT NAME: FIRM:	TIME:	PRINT NAME: PHAM FIRM: CAS	TIME: 0955

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

White Copy - Original **Yellow Copy** - Laboratory **Pink Copy** - Field

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S2600073

Treadwell&Rollo

Environmental and Geotechnical Consultants

555 Montgomery St., Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040 FAX: 415.955.9041

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

COC No. OP 2106
Page: 1 of 2 DH009 2 of 2

Project Name: Presidio of San Francisco
Location: Presidio of San Francisco
Sampled By (Firm and Samplers): BTB / Scott S / Pete C.
Recorder (signature required):
Sent to Laboratory (Name): CAS

PROJECT MANAGER: Joshua Graber
PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) MTBE	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other) 14	Metals - Total [3] (23, 22, 13, 9, 8, 7, 3, Other)	TDS (160.1)	PAHs (8310)	TOC	TOTAL SULFIDE	COMMENTS / NOTES
231GW21CL	3/8/06	1358	4		X		6	1	1		5	[redacted]		[redacted]				[redacted]			[redacted]		[redacted]	
TB0308C63A	↓		5		X		2																	on hold

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (**Other** -)

RELINQUISHED BY:	DATE:	RECEIVED BY: P. BINS CAS 1705	DATE: 3/8/06
PRINT NAME:	FIRM: TIME:	PRINT NAME:	FIRM: TIME:
RELINQUISHED BY: P. BINS CAS VIA GSO 1845	DATE: 3/8/06	RECEIVED BY:	DATE:
PRINT NAME:	FIRM: TIME:	PRINT NAME: PHAM	FIRM: CAS TIME: 3/9/6 0955

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

White Copy - Original **Yellow Copy** - Laboratory **Pink Copy** - Field

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Columbia Analytical Services inc.
An Employee-Owned Company

5090 Caterpillar Road
Redding, CA 96003
Phone: (530) 244-5262
Fax #: (530) 244-4109

COOLER RECEIPT FORM

Project/Client: Presidio/Treadwell & Rollo Batch No.: D4009

1. Cooler(s)/Sample(s) received on: 03/09/06 Shipped via: GSO
   Shipping Bill # (s): 42990421 # of Coolers/Packages 2
2. Radiological Screening by: [illegible] Acceptable Rejected
3. Custody seals on outside of cooler: YES NO N/A
   If yes, where? Front____ Rear____ Lt Side____ Rt Side____
   Seals intact: YES NO

COOLER/SAMPLE PROCESSING

4. Sample Processing/Tagging by: J Gatmen
5. Cooler(s)/Sample(s) Temp's: 4.0C 4.0C ____ ____ ____
   (or)
   Temp. Blank (if included): ____ ____ ____ ____ ____
6. Type of packing material (circle): Ice Blue Ice Bubble Wrap Bubble Bags Zip Locks Webbing
   Other:
7. Custody papers properly filled out (ink, signed, dated, released, etc.)? YES NO
8. Containers arrived in good condition (not broken, leaking, etc.)? YES NO
9. Samples received with adequate holding time remaining to conduct analysis? YES NO
10. Container labels complete (i.e. analysis, preservation, date/time, etc.)? YES NO
11. Container labels and tags agree with custody papers? YES NO
12. Correct types of containers used for the tests indicated? YES NO
    a.) Adequate sample received? If not, note on Exception Report. YES NO
13. Containers supplied by: CAS Other
14. Preserved containers received with the appropriate preservative? YES NO N/A
    pH:____ (or) See pH log.
15. VOA vials free of air bubbles? YES NO N/A
16. Trip Blank preparation date: ____ CAS Other N/A
17. Volatile Soil samples: Encores or Plugs in Vials
    Freezer or GC/MS Date:____ Time:____ N/A

See Exception Report for discrepancies.

Rev. 8/18/2004/ds

GENERAL CHEMISTRY

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : TREADWELL & ROLLO
Project Name : PRESIDIO
Project Number : 2893
Sample Matrix : WATER

Service Request : DH009
Date Collected : 03/08/06
Date Received : 03/09/06

Inorganic Parameters

Sample Name : LF01GW01CL
Lab Code : DH009-001
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	PQL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Alkalinity as CaCO3, Bicarbonate	mg/L	310.1	20	2	03/17/06 11:00	290	
Alkalinity as CaCO3, Carbonate	mg/L	310.1	20	2	03/17/06 11:00	ND	U
Alkalinity as CaCO3, Total	mg/L	310.1	20	2	03/17/06 11:00	290	
Chloride	mg/L	300.0	5	5	03/20/06 04:08	54.4	
Fluoride	mg/L	300.0	1	1	03/20/06 23:16	ND	U
Nitrate as Nitrogen	mg/L	353.2	0.2	10	03/22/06 16:59	5.93	
Nitrite as Nitrogen	mg/L	354.1	0.02	1	03/09/06 08:45	ND	U
Solids, Total Dissolved	mg/L	160.1	20	1	03/15/06 20:00	490	
Sulfate	mg/L	300.0	1	1	03/20/06 23:16	46.7	

Report By:C.Skillern

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : TREADWELL & ROLLO
Project Name : PRESIDIO
Project Number : 2893
Sample Matrix : WATER

Service Request : DH009
Date Collected : 03/08/06
Date Received : 03/09/06

Inorganic Parameters

Sample Name : DAESP03CL
Lab Code : DH009-002
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	PQL	Date/Time Analyzed	Result	Result Notes
Alkalinity as CaCO3, Bicarbonate	mg/L	310.1	10	03/17/06 11:00	75	
Alkalinity as CaCO3, Carbonate	mg/L	310.1	10	03/17/06 11:00	ND	U
Alkalinity as CaCO3, Total	mg/L	310.1	10	03/17/06 11:00	75	
Chloride	mg/L	300.0	1	03/20/06 23:31	30.0	
Cyanide, Total	ug/L	SW9010B/9014	10	03/19/06 19:00	ND	U
Fluoride	mg/L	300.0	1	03/20/06 23:31	ND	U
Hardness as CaCO3	mg/L	130.2	10	03/26/06 14:15	107	
Nitrate as Nitrogen	mg/L	353.2	0.04	03/22/06 16:59	1.62	
Nitrite as Nitrogen	mg/L	354.1	0.04	03/09/06 08:45	0.027	
Solids, Total Dissolved	mg/L	160.1	20	03/15/06 20:00	326	
Sulfate	mg/L	300.0	1	03/20/06 23:31	15.7	

Report By:C.Skillern

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : TREADWELL & ROLLO
Project Name : PRESIDIO
Project Number : 2893
Sample Matrix : WATER

Service Request : DH009
Date Collected : 03/08/06
Date Received : 03/09/06

Inorganic Parameters

Sample Name : BB3SW104CL
Lab Code : DH009-003
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	PQL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Alkalinity as CaCO3, Bicarbonate	mg/L	310.1	10	1	03/17/06 11:00	131	
Alkalinity as CaCO3, Carbonate	mg/L	310.1	10	1	03/17/06 11:00	ND	U
Alkalinity as CaCO3, Total	mg/L	310.1	10	1	03/17/06 11:00	131	
Chloride	mg/L	300.0	5	5	03/20/06 04:37	75.7	
Fluoride	mg/L	300.0	1	1	03/21/06 00:15	ND	U
Nitrate as Nitrogen	mg/L	353.2	0.04	2	03/22/06 16:59	5.02	
Nitrite as Nitrogen	mg/L	354.1	0.02	1	03/09/06 08:45	ND	U
Solids, Total Dissolved	mg/L	160.1	20	1	03/15/06 20:00	348	
Sulfate	mg/L	300.0	1	1	03/21/06 00:15	24.2	

Report By:C.Skillern

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : TREADWELL & ROLLO
Project Name : PRESIDIO
Project Number : 2893
Sample Matrix : WATER

Service Request : DH009
Date Collected : 03/08/06
Date Received : 03/09/06

Inorganic Parameters

Sample Name : 231GW21CL
Lab Code : DH009-004
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	PQL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Alkalinity as CaCO3, Bicarbonate	mg/L	310.1	20	2	03/17/06 11:00	456	
Alkalinity as CaCO3, Carbonate	mg/L	310.1	20	2	03/17/06 11:00	ND	U
Alkalinity as CaCO3, Total	mg/L	310.1	20	2	03/17/06 11:00	456	
Carbon, Total Organic	mg/L	SW9060	1	1	03/14/06 12:41	9.8	
Chloride	mg/L	300.0	1	1	03/21/06 00:29	33.6	
Fluoride	mg/L	300.0	1	1	03/21/06 00:29	ND	U
Nitrate as Nitrogen	mg/L	353.2	0.02	1	03/22/06 16:59	ND	U
Nitrite as Nitrogen	mg/L	354.1	0.02	1	03/09/06 08:45	ND	U
Solids, Total Dissolved	mg/L	160.1	20	1	03/15/06 20:00	530	
Sulfate	mg/L	300.0	1	1	03/21/06 00:29	ND	U

Report By:C.Skillern

QC Summary

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Service Request: DH009
Client : TREADWELL & ROLLO
Project : PRESIDIO

Initial and Continuing Calibration Verification
Form II

Analyte	Analysis Method	Date Analyzed	Units	Initial Calibration			Continuing Calibration						
								#1		#2		#3	
				True	Result	%R	True	Result	%R	Result	%R	Result	%R
Alkalinity	310.1	03/17/06	units	7.00	7.07	101							
Carbon, Tot. Org.	SW9060	03/14/06	mg/L	15.00	14.02	93	20.00	18.23	91		-		-
Chloride	300.0	03/20/06	mg/L	5.00	4.84	97	4.00	4.03	101	4.03	101	4.09	102
Cyanide, Total	SW9010	03/19/06	ug/L	99.0	90.9	92	50.0	48.9	98		-		-
Fluoride	300.0	03/20/06	mg/L	2.50	2.57	103	2.00	2.09	105	2.10	105	2.12	106
Hardness	130.2	03/26/06	mg/L										
Nitrate	353.2	03/22/06	mg/L	0.500	0.504	101	0.800	0.803	100	0.810	101	0.806	101
Nitrite	354.1	03/09/06	mg/L	0.150	0.153	102	0.100	0.099	99		-		-
Solids, Tot. Diss.	160.1	03/15/06	mg/L										
Sulfate	300.0	03/20/06	mg/L	10.00	9.78	98	8.00	8.02	100	8.07	101	8.17	102

Control Limits are 90-110% unless noted.

Remarks

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Service Request: DH009
Client : TREADWELL & ROLLO
Project : PRESIDIO

Initial and Continuing Calibration Blanks
Form III

Analyte	Analysis Method	Date Analyzed	Units	Initial Calibration		Continuing Calibration #1		Continuing Calibration #2		Continuing Calibration #3		Method Blank units mg/L	
				Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.
Alkalinity	310.1	03/17/06	mg/L									10	U
Carbon, Tot. Org.	SW9060	03/14/06	mg/L	0.1	U	0.1	U					1.0	U
Chloride	300.0	03/20/06	mg/L	1.0	U	1.0	U	1.0		1.0		1.0	U
Cyanide, Total	SW9010	03/19/06	ug/L	10	U	10	U					10.0	U
Fluoride	300.0	03/20/06	mg/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Hardness	130.2	03/26/06	mg/L									10	U
Nitrate	353.2	03/22/06	mg/L	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Nitrite	354.1	03/09/06	mg/L	0.02	U	0.02	U					0.02	U
Solids, Tot. Diss.	160.1	03/15/06	mg/L									20.00	U
Sulfate	300.0	03/20/06	mg/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

Remarks

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Service Request: DH009
Client : TREADWELL & ROLLO
Project : PRESIDIO

Laboratory Control Sample
Form VII

Lab No.	LCS			Client Sample ID:		LCS							
Analyte	Analysis Method	Date Analyzed	Units		LCS TV		LCS Result	%R	LCSD Result	% R	Control Limit	RPD	Control Limit
Alkalinity	310.1	03/17/06	mg/L		2,500		2,540	102	2,540	102	95-106	0.0	20
Carbon, Tot. Org.	SW9060	03/14/06	mg/L		15.00		14.02	93	13.78	92	80-111	1.7	20
Chloride	300.0	03/20/06	mg/L		5.00		4.84	97	4.92	98	90-110	1.6	20
Cyanide, Total	SW9010	03/19/06	ug/L		99.0		89.6	91	90.9	92	76-114	1.4	20
Fluoride	300.0	03/20/06	mg/L		2.50		2.57	103	2.62	105	90-110	1.9	20
Hardness	130.2	03/26/06	mg/L		1,000		1,013	101	1,025	103	93-110	1.2	20
Nitrate	353.2	03/22/06	mg/L		0.500		0.506	101	0.506	101	90-110	0.0	20
Nitrite	354.1	03/09/06	mg/L		0.150		0.153	102	0.151	101	93-110	1.3	20
Solids, Tot. Diss.	160.1	03/15/06	mg/L		575		581	101	579	101	92-106	0.3	20
Sulfate	300.0	03/20/06	mg/L		10.00		9.78	98	9.91	99	90-110	1.3	20

Remarks

Support Documentation

Alkalinity

Page: 1031

Analyst: am/LS
Analysis Date: 3/17/06 @ 1100
N H_2SO_4: 0.02

Method: EPA 310.1 / SM2320
Test Codes: ALK, ALKB, ALKC, ALKP, HCO3, CO3
Reporting Limit: 10 mg/L
Detection Limit : 2 mg/L

Sample Reference No.	mls spl.	pH	mls H2SO4 to pH 8.3			mls H2SO4 to pH 4.5			AlkC CO3	AlkB HCO3	Alk Total		True	%RPD	
			Initial	Final	Vol.	Initial	Final	Vol.	mg/L	mg/L	mg/L	units	Value	%R	
CS1 pH 4.00		4.00											4.00	100%	
CS2 pH 10.00		10.07											10.00	100.7%	
ICVS pH 7.00		7.07											7.00	101%	
MB	100	5.78				6.0	6.2	.2			2.0<10	mg/L			
LCS Na2CO3	5	10.71				6.2	18.9	12.7			2540	mg/L	2500	101.6%	0.00%
IDC-1/LCSD	5					32.8	45.5	12.7			2540		2500	101.6%	
IDC-2	5					8.6	21.2	12.6			2520		2500	100.8%	
IDC-3	5					21.2	33.9	12.7			2540		2500	101.6%	
IDC-4	5					33.9	46.4	12.5			2500		2500	100%	
CCVS		7.06											7.00	100.9	
DH005-1G	100	7.49				7.4	10.5	3.1	<2	31	31				
DH005-~~1H~~ 2G 3/17/06	50	7.75				9.8	48.6	38.8	<~~2~~4	776	776				
am 3/17/06 DH005-3G	50	7.99				7.1	27.0	19.9	<~~2~~4	398	398				
DH005-4G	25	7.58				~~27.0~~ 27.0/27.8	50/13.7	29.7	<~~2~~8	1188	1188				
DH005-5G	50	7.76				13.7	30.8	17.1	<~~2~~4	342	342				
DH005-6G	25	6.85				30.8	41.2	10.4	<~~2~~8	416	416				
DH006-1N	50	7.32				7.0	23.8	16.8			336				
~~CCV pH 7.00~~ DH006-2N	25	7.54				23.8	43.0	19.2			768		~~7.00~~	LS 3/17/06	
DH006-3N	25	6.93				30.8	42.3	11.5			460				
CCV		6.96											7.00	99.4%	
DH009-1G	50	7.11				6.2	20.7	14.5	<~~2~~4	290	290				
-2G	100	7.15				5.5	13.0	7.5	<2	75	75				
-3G	↓	8.00				13.0	26.1	13.1	<2	131	131				
-4G	50	7.09				26.1	48.9	22.8	<~~2~~4	456	456				
DH011-1N	50	6.98				6.7	24.1	17.4			348				
-1MS N	↓	8.80				7.0	36.9	29.9			598		250	100.0	>0.3%
LS 3/17/06 -1MSD N	↓	8.95				5.9	35.7	29.8			~~591~~ 596		250	99.2	RPD
-2N	25	6.95				7.0	13.2	6.2			248				
-3N	50	6.75				13.3	18.7	5.4			108				
LS 3/17/06 -4N	~~100~~ 50	6.64				18.7	39.6	20.9			418				
CCV pH 7.00		6.95											7.00	99.3%	

Form Alk-Mstr.WK1 Spike (ID, Conc. Vol.): G37186, 2500 mg/L, 5.00 ml Updated 03/03

48794

Columbia Analytical Services - Redding, CA

Work Group #:	CNDI 060319
Analyst:	LAS
Analysis Date & Time:	3/19/2006 19:00
Analyst Review:	LAS
Supervisor Review:	RWP 3/20/06

Cyanide, Total In Water
SW9010B/9014 & 335.2
Test Codes: WC9010B/9014, CNDI

			Spike Information			
Reporting Limit:	10.00	ug/L	Spike ID	Conc	Spk mL	Sx mL
Detection Limit:	2	ug/L	G39161	100	0.05	50

No.	Reference Number	Sx Type	g/mL distill	mL final vol.	mL color.	Sx/Reag Abs.	Initial ug/L	Dil. Factor	Final ug/L	Qual	MDL ug/L	RL ug/L	QC Value ug/L	True Valu ug/L	%R	%RPD	Linear Regression Data	
CB	DI	C			5.0	0.000								0			r	0.9995
CS1	G39161	C			5.0	0.016								10			m :	616.601
CS2	G36430	C			5.0	0.033								20			b :	0.8413
CS3	G36430	C			5.0	0.080								50				
CS4	G36430	C	Digestion Date		5.0	0.153								100				
CS5	G36430	C	03/19/06		5.0	0.241								150				
CS6	G36430	C			5.0	0.327								200			Sx Remarks	
1	ICVS	QC	50	50	5.0	0.146	90.9	1.0	91		2	10	90.9	99.0	91.8			
2	ICB	QC	50	50	5.0	0.000	0.8	1.0	2	U	2	10	0.0					
3	MB	QC	50	50	5.0	0.000	0.8	1.0	2	U	2	10	0.0					
4	LCS(G38843)	QC	50	50	5.0	0.144	89.6	1.0	90		2	10	89.6	99.0	90.5			
5	CS3	QC	50	50	5.0	0.072	45.2	1.0	45		2	10	45.2	50.0	90.5			
5	CS5	QC	50	50	5.0	0.219	135.9	1.0	136		2	10	135.9	150.0	90.6			
7	LCSD	QC	50	50	5.0	0.146	90.9	1.0	91		2	10	90.9	99.0	91.8	1.4		
8	DH009002	QC	50	50	5.0	0.001	1.5	1.0	2	U	2	10	0.0					
9	DH009002MS	MS	50	50	5.0	0.147	91.5	1.0	92		2	10	91.5	100.0	91.5			
10	DH009002MSD	MSD	50	50	5.0	0.142	88.4	1.0	88		2	10	88.4	100.0	88.4	3.4		
11	DH025001	Sx	50	50	5.0	0.000	0.8	1.0	2	U	2	10						
12	DH026001	Sx	50	50	5.0	0.007	5.2	1.0	5	J	2	10						
13	CCVS	QC	50	50	5.0	0.078	48.9	1.0	49		2	10	48.9	50.0	97.9			
14	CCB	QC	50	50	5.0	0.000	0.8	1.0	2	U	2	10	0.0					
15	DH029001	Sx	50	50	5.0	0.002	2.1	1.0	2	J	2	10						
16	DH030001	Sx	50	50	5.0	0.000	0.8	1.0	2	U	2	10						
17	L0600478-001	Sx	50	50	5.0	0.000	0.8	1.0	2	U	2	10						
13	L0600478-002	Sx	50	50	5.0	0.023	15.0	1.0	15		2	10						
14	L0600478-003	Sx	50	50	5.0	0.026	16.9	1.0	17		2	10						
20	CCVS	QC	50	50	5.0	0.086	53.9	1.0	54		2	10	53.9	50.0	107.7			
21	CCB	QC	50	50	5.0	0.000	0.8	1.0	2	U	2	10	0.0					
22																		

Detailed Analysis Report Print Date/Time: 2006/03/13 12:05:18

Sample ID: INSTRUMENT BLANK
Method: Blank TC Range 2
Cal. Curve: 050808ICAL
Operator ID: MMCCULLOUGH

Mode: TC
Filename: 03130931
Timestamp: 03/13/2006 09:46
Sample Type: Blank TC Range 2

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			385610	-2.414	-1.919	98
2			153876	-2.348	-1.849	84
3			91548	-2.410	-1.910	77
4			83704	-2.420	-1.923	76
5			82136	-2.414	-1.916	77

<<<Statistics>>> Mean: 159375 Std Dev: 129909 RSD: 81.51

Sample ID: Zero Standard
Method: TOC RANGE 01-50 PPM CS
Cal. Curve: 060313
Operator ID: MMCCULLOUGH

Mode: TOC
Filename: 03130931
Timestamp: 03/13/2006 10:06
Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			177151	-2.409	-1.417	76
2			146905	-2.438	-1.445	74
3			154992	-2.413	-1.415	74

<<<Statistics>>> Mean: 159683 Std Dev: 15659 RSD: 9.81

Sample ID: 1.0 ppm
Method: TOC RANGE 01-50 PPM CS
Cal. Curve: 060313
Operator ID: MMCCULLOUGH

Mode: TOC
Filename: 03130931
Timestamp: 03/13/2006 10:27
Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			719703	-2.442	-1.458	92
2			708304	-2.427	-1.429	90
3			709074	-2.469	-1.478	90

<<<Statistics>>> Mean: 712360 Std Dev: 6371 RSD: 0.89

Sample ID: 5.0 ppm
Method: TOC RANGE 01-50 PPM CS
Cal. Curve: 060313
Operator ID: MMCCULLOUGH

Mode: TOC
Filename: 03130931
Timestamp: 03/13/2006 10:49
Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			3023618	-2.484	-1.486	116
2			3041162	-2.402	-1.404	114
3			3027912	-2.381	-1.387	114

<<<Statistics>>> Mean: 3030897 Std Dev: 9145 RSD: 0.30

Sample ID: 10 ppm
Method: TOC RANGE 01-50 PPM CS

Mode: TOC
Filename: 03130931

Cal. Curve: 060313 Timestamp: 03/13/2006 11:12
Operator ID: MMCCULLOUGH Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			5983776	-2.445	-1.445	134
2			6002291	-2.437	-1.438	132
3			6006188	-2.413	-1.423	134

<<<Statistics>>> Mean: 5997418 Std Dev: 11974 RSD: 0.20

Sample ID: 25 ppm Mode: TOC
Method: TOC RANGE 01-50 PPM CS Filename: 03130931
Cal. Curve: 060313 Timestamp: 03/13/2006 11:37
Operator ID: MMCCULLOUGH Sample Type: TOC Standard

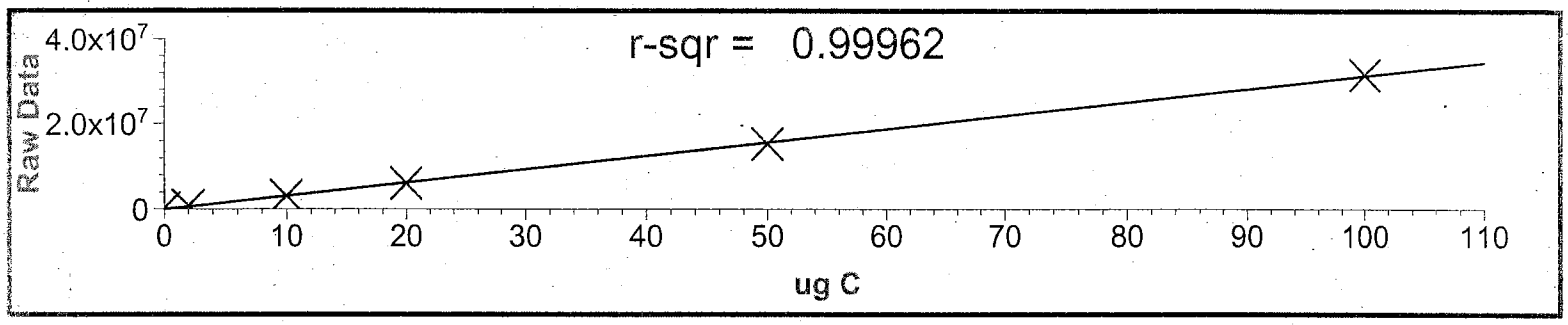
Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			15345899	-2.411	-1.411	170
2			15264122	-2.381	-1.383	178
3			15297076	-2.369	-1.371	178

<<<Statistics>>> Mean: 15302365 Std Dev: 41144 RSD: 0.27

Sample ID: 50 ppm Mode: TOC
Method: TOC RANGE 01-50 PPM CS Filename: 03130931
Cal. Curve: 060313 Timestamp: 03/13/2006 12:04
Operator ID: MMCCULLOUGH Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			31416004	-2.370	-1.372	228
2			31622570	-2.221	-1.222	219
3			31608184	-2.314	-1.316	219

<<<Statistics>>> Mean: 31548920 Std Dev: 115333 RSD: 0.37


r-sqr = 0.99962
Raw Data
4.0x10^7
2.0x10^7
0
0
10
20
30
40
50
60
70
80
90
100
110
ug C

Calibration Report Print Date/Time: 2006/03/13 12:32:03

Cal. Curve ID: 060313
Created: 03/13/2006 12:31
Calibration Factor (m): 3.141e+05
Y Intercept (b): -67921
r-squared: 0.99962

Standard ID	Y Raw Data	X Expected ug C	Measured ug C	Message	Date & Time
Zero Standard	159683	0.000	0.725		03/13/2006 10:06
1.0 ppm	712360	2.000	2.484		03/13/2006 10:27
5.0 ppm	3030897	10.000	9.867		03/13/2006 10:49
10 ppm	5997418	20.000	19.313		03/13/2006 11:12
25 ppm	15302365	50.000	48.940		03/13/2006 11:37
50 ppm	31548918	100.000	100.671		03/13/2006 12:04

TOC (Methods E415.1/SW9060)

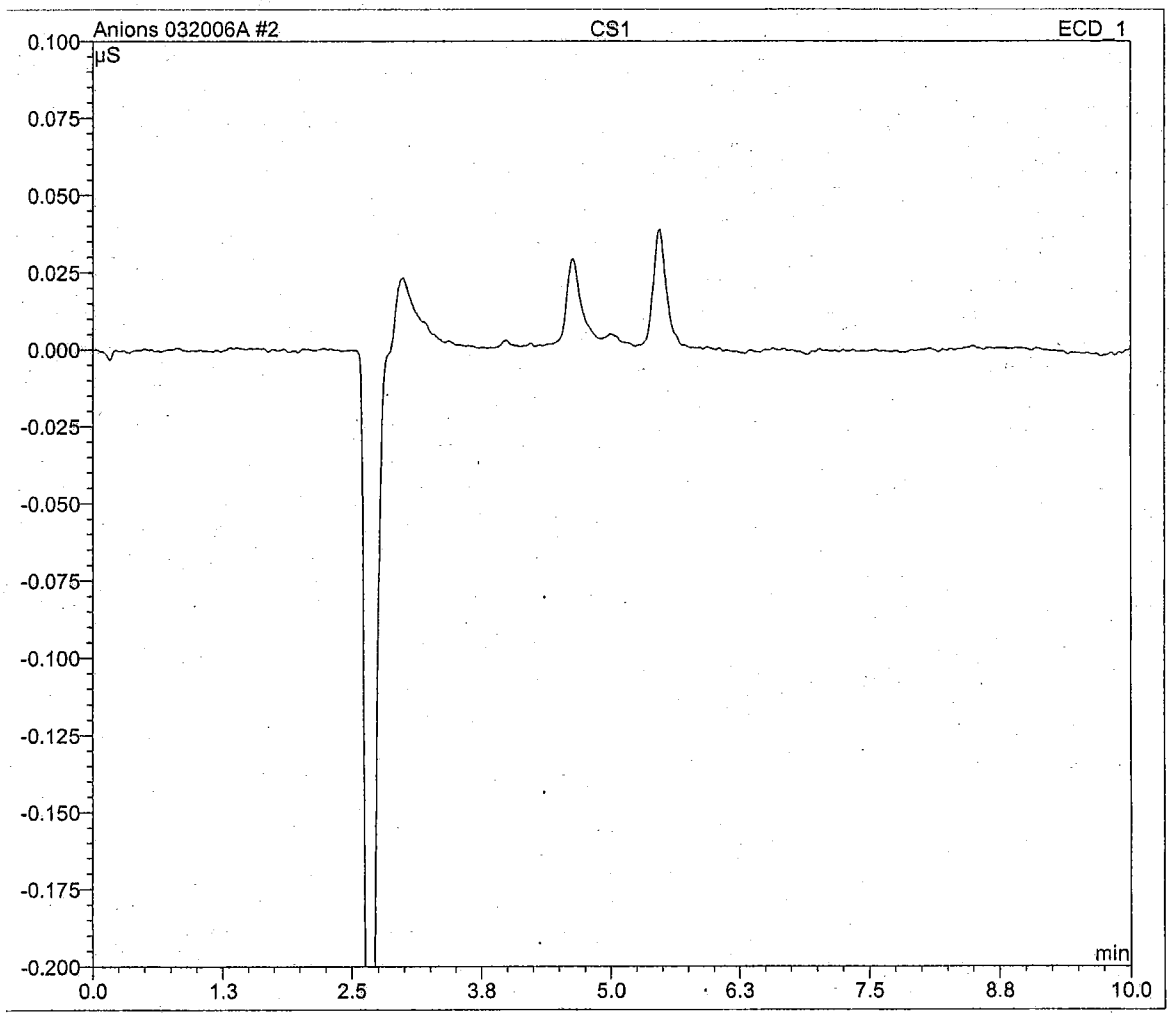
TOC060314-09	Sample ID	MDL	RL	DL	Value	Result (ppm)	F	Rec
3/14/06 9:14	ICVS/LCS	0.1	1	1	14.021	14		93.5%
3/14/06 9:36	ICB/MB	0.1	1	1	0.016	0.1	U	
3/14/06 9:57	LCSD	0.1	1	1	13.779	13.8		91.9%
3/14/06 10:20	DG989005	0.1	1	1	1.533	1.5		
3/14/06 10:43	DG989005 MS	0.1	1	1	19.748	19.7		91.1%
3/14/06 11:09	DG989005 MSD	0.1	1	1	20.205	20.2		93.4%
3/14/06 11:33	DG989006	0.1	1	1	1.468	1.5		
3/14/06 11:55	DH005002 5X	0.5	5	5	8.703	43.5		
3/14/06 12:18	DH005003	0.1	1	1	4.809	4.8		
3/14/06 12:41	DH009004	0.1	1	1	9.800	9.8		
3/14/06 13:05	DG998013	0.1	1	1	1.781	1.8		
3/14/06 13:28	CCVS	0.1	1	1	18.230	18.2		91.2%
3/14/06 13:50	CCB	0.1	1	1	0.046	0.1	U	
3/14/06 14:19	DG998015 250X	25	250	250	10.912	2730		
3/14/06 15:05	DG998017 10X	1	10	10	9.856	98.6		
3/14/06 15:52	DG998019 100X	10	100	100	9.110	911		
3/14/06 16:38	DG998021 50X	5	50	50	8.111	406		
3/14/06 17:24	DG998023 250X	25	250	250	9.843	2460		
3/14/06 18:11	DH998025 200X	20	200	200	9.253	1850		
3/14/06 18:50	DG998028	0.1	1	1	0.417	0.4	J	
3/14/06 19:21	DG998029 200X	20	200	200	9.685	1940		
3/14/06 20:02	DH012001	0.1	1	1	1.411	1.4		
3/14/06 20:37	DO600016-1	0.1	1	1	3.553	3.6		
3/14/06 21:23	DO600016-002	0.1	1	1	6.993	7		
3/14/06 22:02	CCVS	0.1	1	1	0.337	0.3	J	1.7%
3/14/06 22:29	CCB	0.1	1	1	1.060	1.1		

±.5% RPD

Analyst/Date: [illegible] 3/14/06 Reviewer/Date:

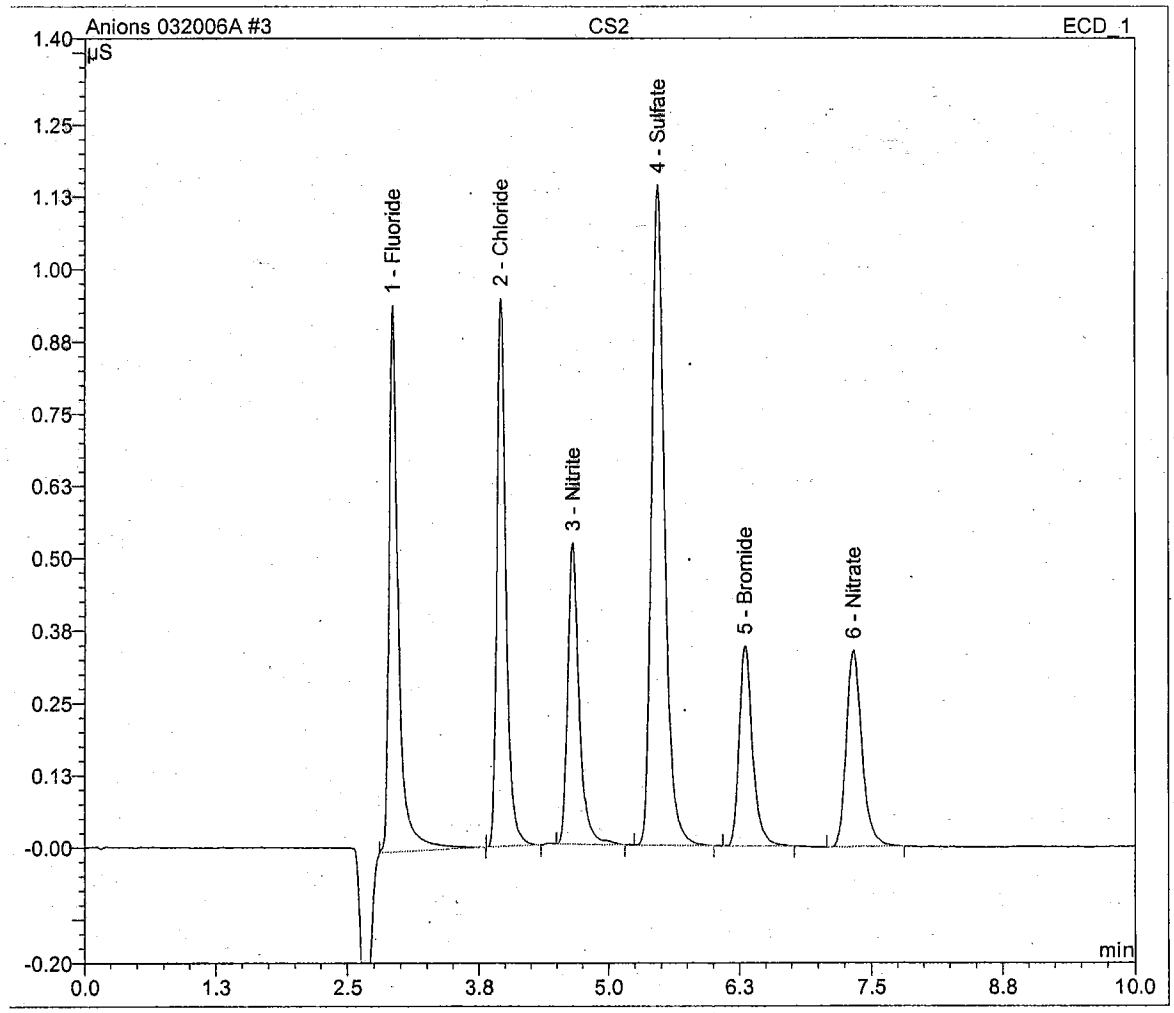
Sample Name:	**CS1**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.03.06 18:24**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
		TOTAL:		0.00	0.00	0.00



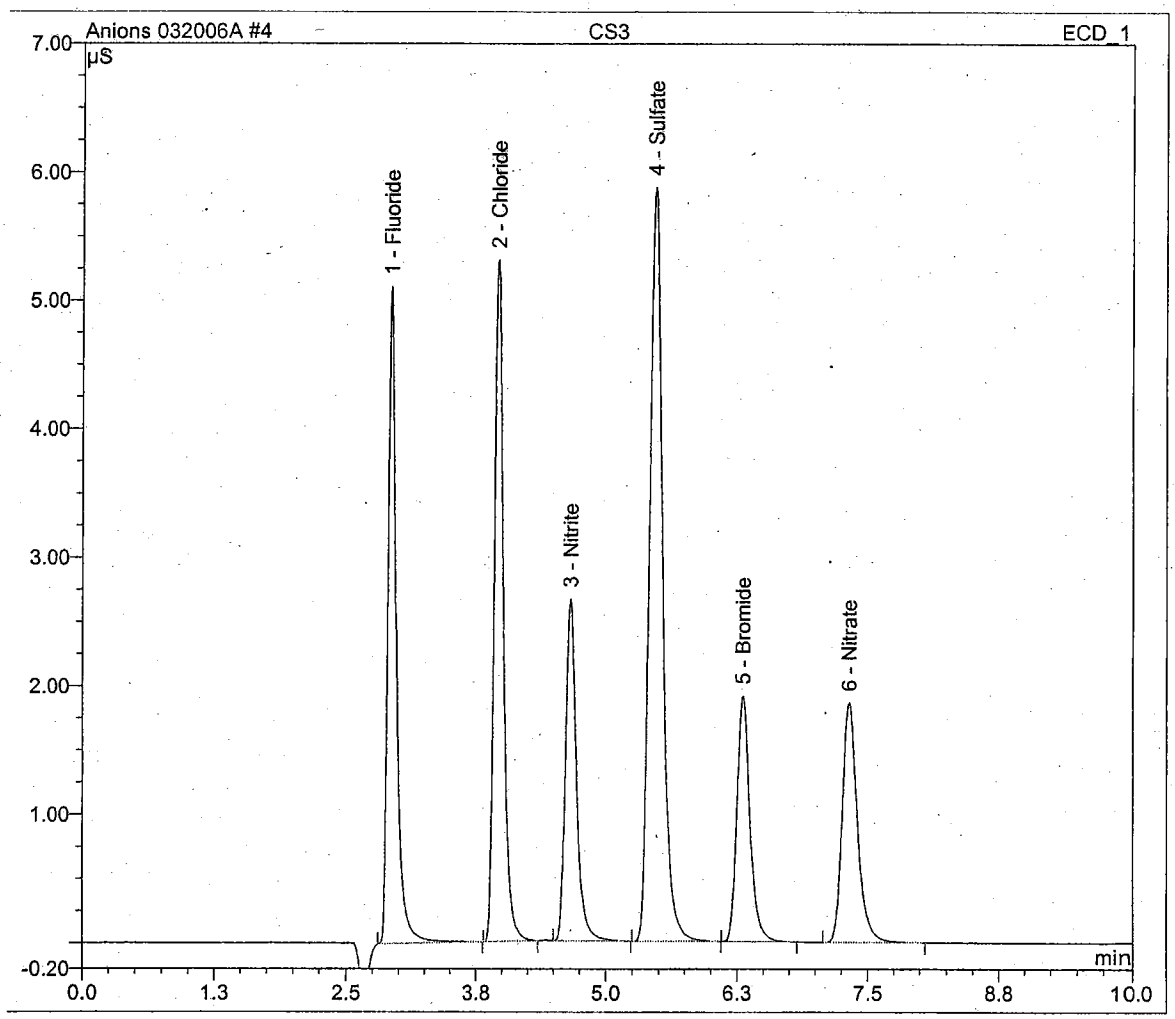
Sample Name:	**CS2**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.03.06 18:39**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	2.92	Fluoride	BMB	0.097	0.946	-0.0385
2	3.96	Chloride	BMB	0.098	0.948	0.3706
3	4.65	Nitrite	BMB	0.067	0.520	0.0414
4	5.46	Sulfate	BMB	0.164	1.142	0.8005
5	6.30	Bromide	BMB	0.052	0.345	0.6497
6	7.33	Nitrate	BMB	0.058	0.339	0.1308
			TOTAL:	0.54	4.24	1.95



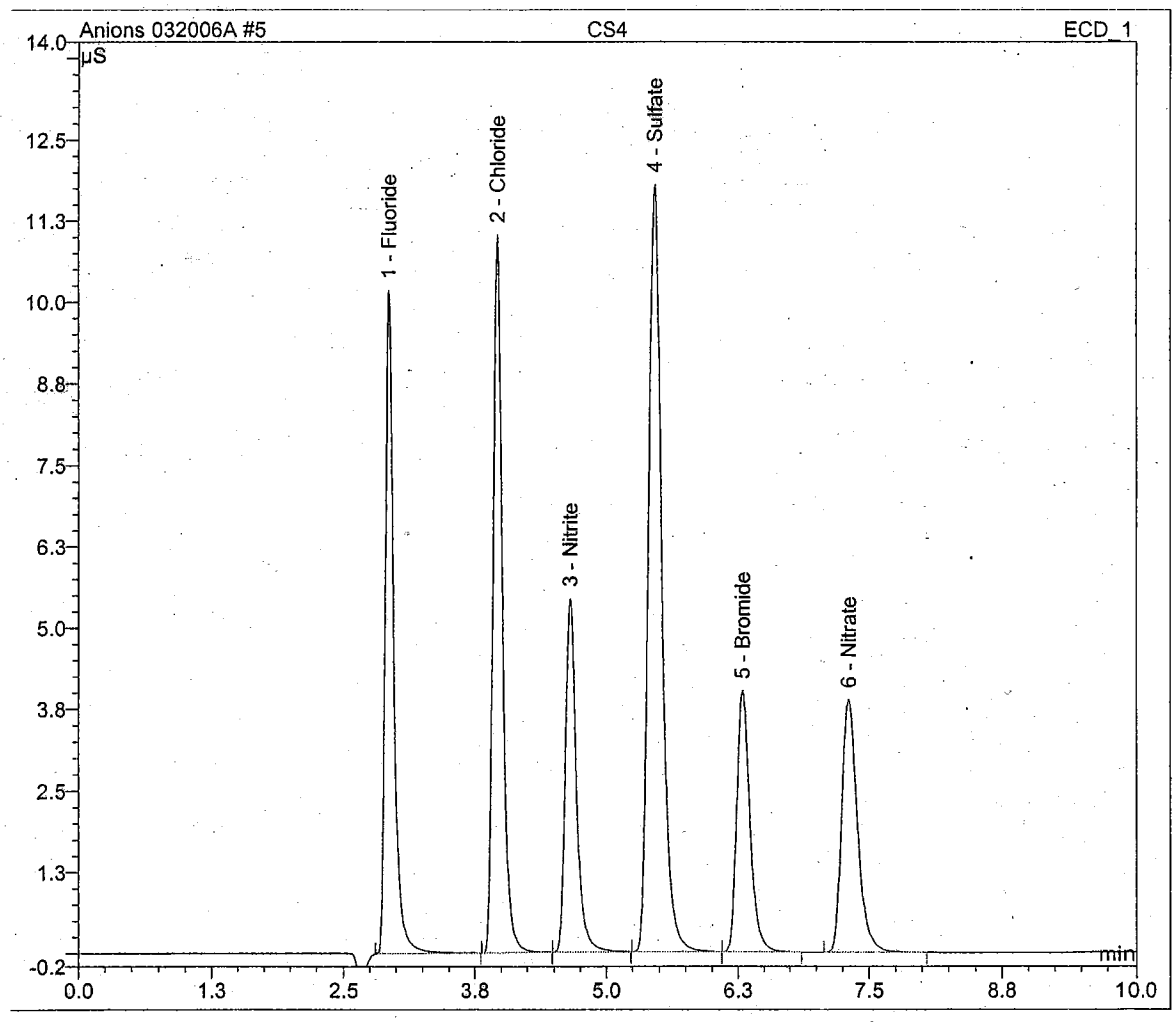
Sample Name:	**CS3**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.03.06 18:53**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	2.93	Fluoride	BMB	0.480	5.111	0.8754
2	3.96	Chloride	BMB	0.540	5.302	1.8713
3	4.66	Nitrite	BMB	0.322	2.656	0.4432
4	5.46	Sulfate	BMB	0.839	5.869	3.9027
5	6.30	Bromide	BMB	0.277	1.909	2.4065
6	7.32	Nitrate	BMB	0.318	1.865	0.4837
		TOTAL:		2.77	22.71	9.98



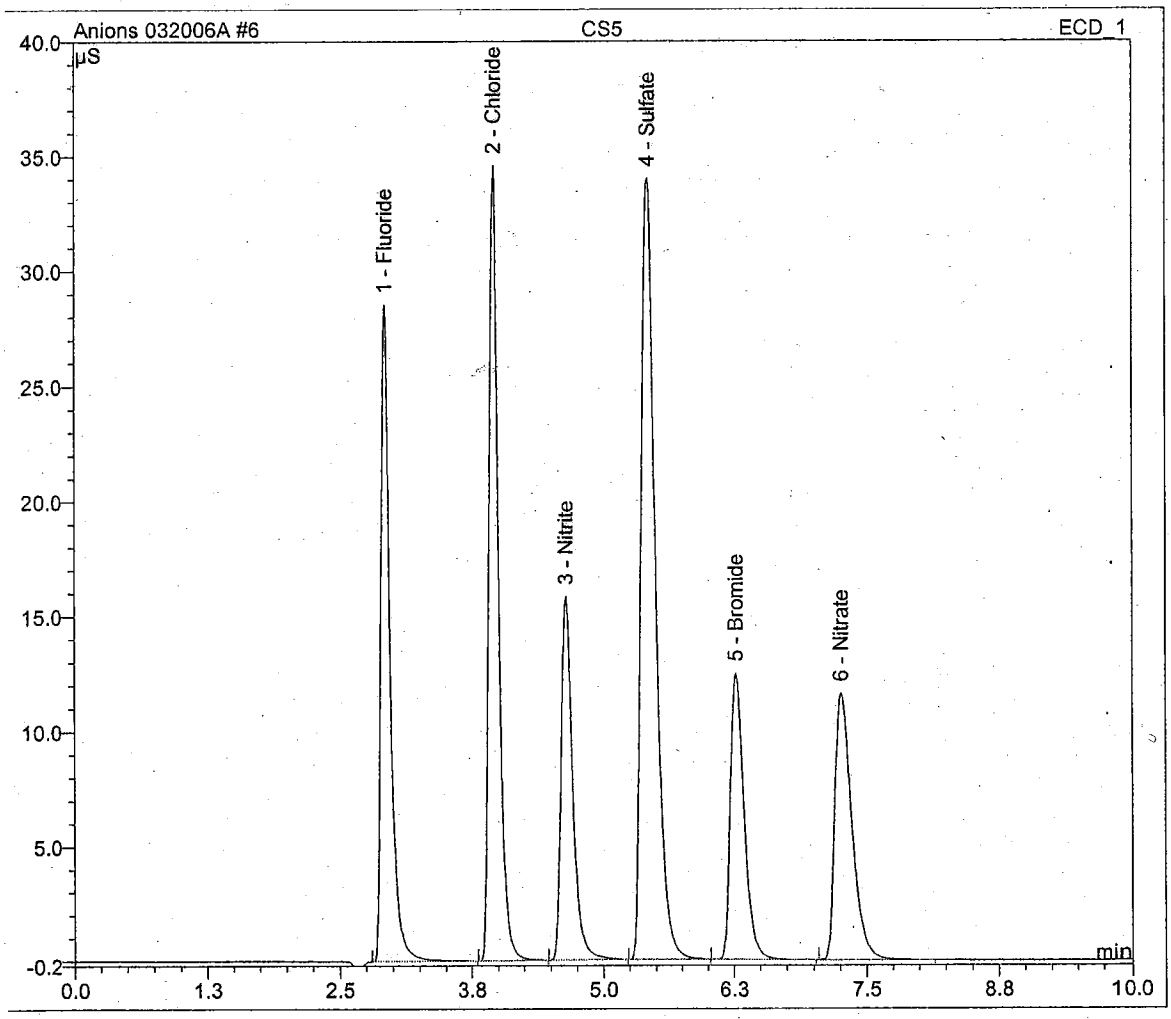
Sample Name:	**CS4**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.03.06 19:08**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	2.93	Fluoride	BMB	0.964	10.179	2.0302
2	3.96	Chloride	BMB	1.131	11.029	3.8792
3	4.65	Nitrite	BMB	0.664	5.425	0.9828
4	5.45	Sulfate	BMB	1.713	11.786	7.9236
5	6.29	Bromide	BMB	0.582	4.005	4.7876
6	7.31	Nitrate	BMB	0.666	3.880	0.9577
		TOTAL:		5.72	46.30	20.56



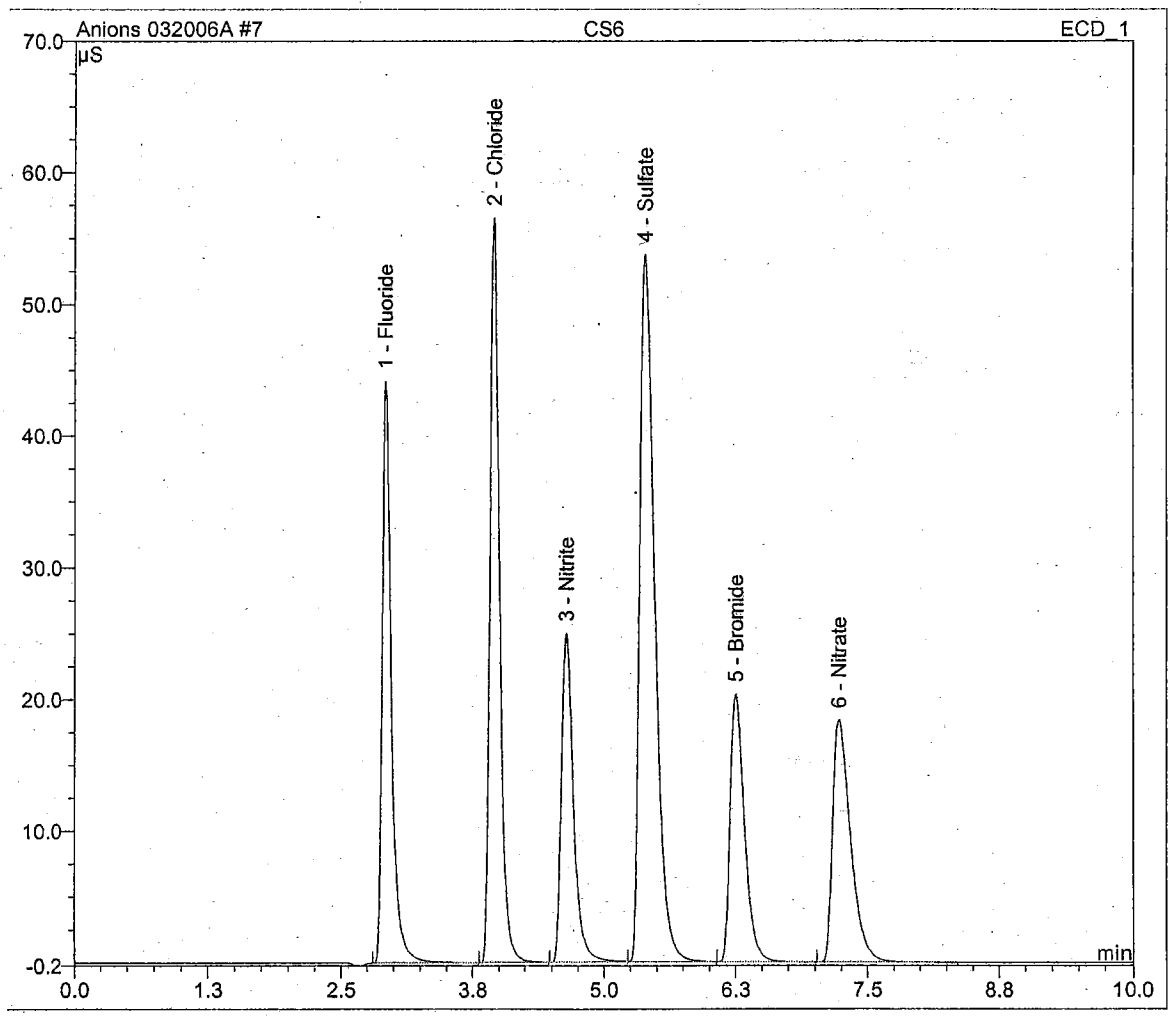
Sample Name:	**CS5**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.03.06 19:22**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	2.93	Fluoride	BMB	2.831	28.522	6.4828
2	3.95	Chloride	BMB	3.591	34.578	12.2324
3	4.65	Nitrite	BMB	2.033	15.806	3.1430
4	5.42	Sulfate	BMB	5.222	33.960	24.0574
5	6.27	Bromide	BMB	1.875	12.439	14.8613
6	7.26	Nitrate	BMB	2.142	11.605	2.9672
			TOTAL:	17.69	136.91	63.74



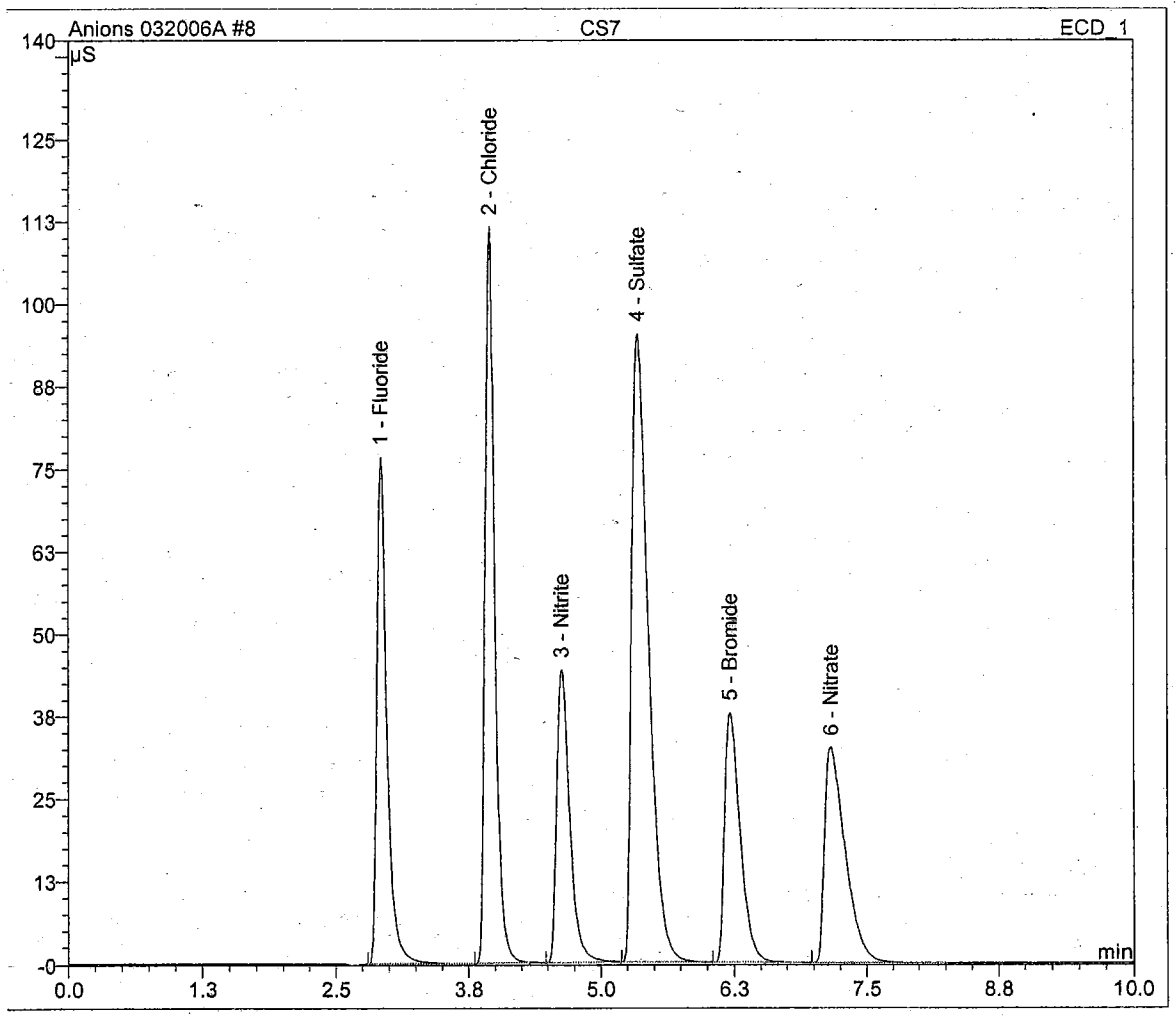
Sample Name:	**CS6**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.03.06 19:37**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	2.93	Fluoride	BMB	4.523	44.174	10.5168
2	3.95	Chloride	BMB	5.914	56.545	20.1171
3	4.64	Nitrite	BMB	3.326	24.960	5.1828
4	5.39	Sulfate	BMB	8.722	53.702	40.1485
5	6.25	Bromide	BMB	3.171	20.344	24.9627
6	7.23	Nitrate	BMB	3.628	18.402	4.9894
		TOTAL:		29.28	218.13	105.92



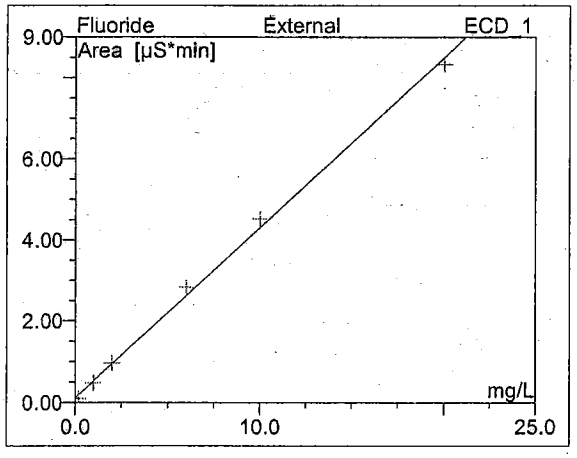
Sample Name:	**CS7**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**20.03.06 19:52**	*Run Time:*	**12.00**

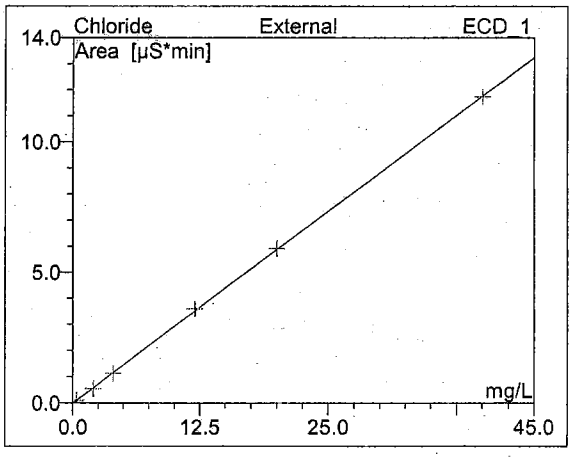
No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	2.93	Fluoride	BMB	8.333	76.796	19.6024
2	3.95	Chloride	BMB	11.737	111.640	39.8906
3	4.63	Nitrite	BMB	6.297	44.436	9.8708
4	5.34	Sulfate	BMB	17.371	95.282	79.9210
5	6.21	Bromide	BMB	6.394	37.867	50.0847
6	7.16	Nitrate	BMB	7.325	32.625	10.0199
		TOTAL:		57.46	398.65	209.39

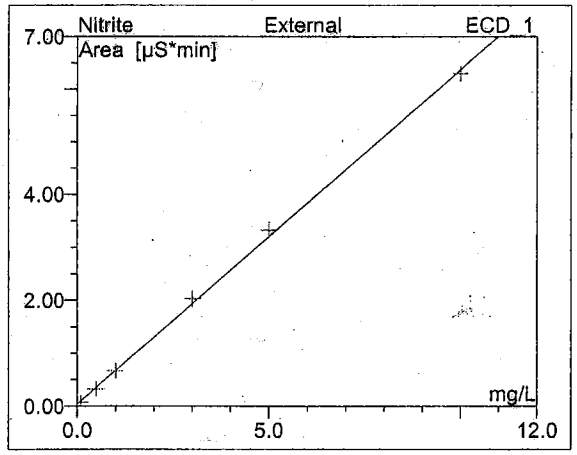


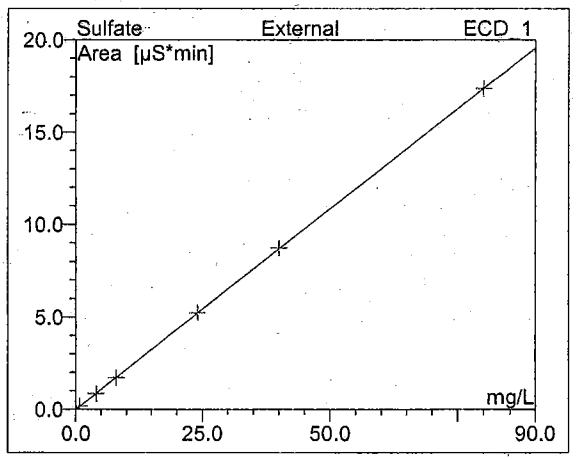
Calibration Batch Report

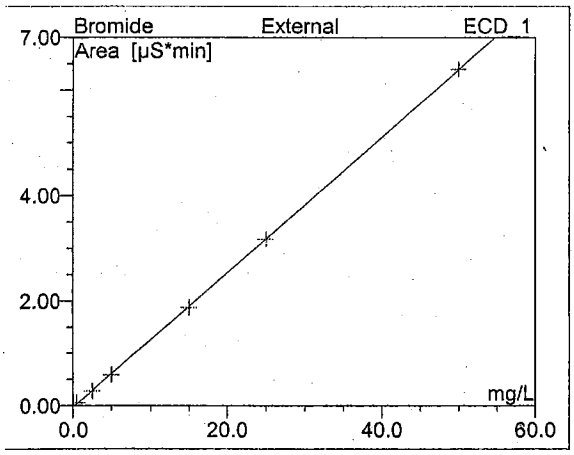
Sequence:	Anions 032006A	Inj. Vol.:	25.0
Program:	Anions_Program	Operator:	RDD-ACQU-WC-8
Inj. Date/Time:	03/20/06 19:52	Run Time:	12.00

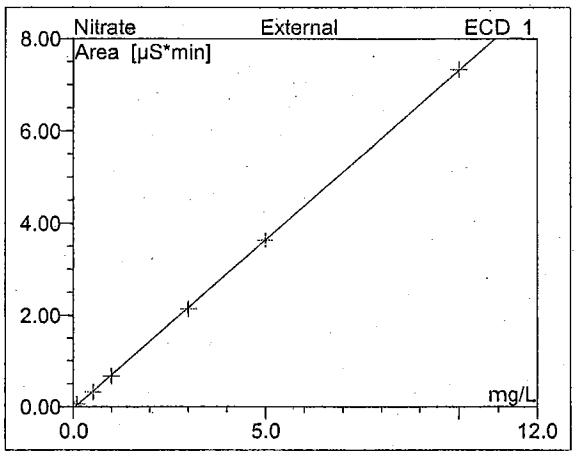










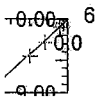


Sequence:	**Anions 032006A**	*Inj. Vol.:*	**25.0**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**03/20/06 19:52**	*Run Time:*	**12.00**

No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	2.96	Fluoride	0LOff	5	0.005	0.465	0.000	99.999
2	4.01	Chloride	0LOff	8	-0.061	0.290	0.000	99.991
3	4.72	Nitrite	0LOff	7	0.008	0.665	0.000	99.992
4	5.48	Sulfate	0LOff	8	-0.082	0.218	0.000	99.995
5	6.43	Bromide	0LOff	7	-0.026	0.125	0.000	99.954
6	7.35	Nitrate	0LOff	6	-0.041	0.713	0.000	99.978
AVERAGE:					-0.0329	0.4126	0.0000	99.9846

No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	2.926666667	Fluoride	0LOff	6	0.1128	0.419325	0	99.8743208
2	3.946666667	Chloride	0LOff	6	-0.011461	0.294528	0	99.99512508
3	4.63	Nitrite	0LOff	6	0.040644	0.633836	0	99.94622225
4	5.343333333	Sulfate	0LOff	6	-0.010056	0.217483	0	99.99949351
5	6.213333333	Bromide	0LOff	6	-0.031752	0.1283	0	99.99763272

0.00	6	7.163333333	Nitrate	0LOff	6	-0.037728	0.734767	0	99.99737978



Reviewed
3-23-06
CAS

Sequence: Anions 032006A
Operator: RDDACQUWC8

Printed: 3/21/2006 8:19:10 AM

Title: Anions Calibration 092205
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\Anions 032006
Timebase: ICS-2000
#Samples: 54

Created: 3/20/2006 6:09:29 PM by RDDACQUWC8
Last Update: 3/20/2006 6:09:50 PM by RDDACQUWC8

	No.	Name	Type	Pos.	Program	Method	Status	Inj. Date/Time
	1	Rinse	Unknown	1	Anions_Program	Anions_Method	Finished	3/20/2006 6:09:50 PM
	2	CS1	Standard	2	Anions_Program	Anions_Method	Finished	3/20/2006 6:24:26 PM
	3	CS2	Standard	3	Anions_Program	Anions_Method	Finished	3/20/2006 6:39:02 PM
	4	CS3	Standard	4	Anions_Program	Anions_Method	Finished	3/20/2006 6:53:39 PM
	5	CS4	Standard	5	Anions_Program	Anions_Method	Finished	3/20/2006 7:08:15 PM
	6	CS5	Standard	6	Anions_Program	Anions_Method	Finished	3/20/2006 7:22:52 PM
	7	CS6	Standard	7	Anions_Program	Anions_Method	Finished	3/20/2006 7:37:28 PM
	8	CS7	Standard	8	Anions_Program	Anions_Method	Finished	3/20/2006 7:52:05 PM
	9	ICVS/LCS	Unknown	9	Anions_Program	Anions_Method	Finished	3/20/2006 8:06:41 PM
	10	RL	Unknown	3	Anions_Program	Anions_Method	Finished	3/20/2006 8:21:18 PM
	11	ICB	Unknown	4	Anions_Program	Anions_Method	Finished	3/20/2006 8:35:54 PM
	12	MB	Unknown	5	Anions_Program	Anions_Method	Finished	3/20/2006 8:50:30 PM
	13	LCSD	Unknown	5	Anions_Program	Anions_Method	Finished	3/20/2006 9:05:06 PM
IF, ICl, ISO4	14	DH005001G	Unknown	6	Anions_Program	Anions_Method	Finished	3/20/2006 9:19:43 PM
	15	DH005001G MS	Unknown	7	Anions_Program	Anions_Method	Finished	3/20/2006 9:34:19 PM
	16	DH005001G MSD	Unknown	7	Anions_Program	Anions_Method	Finished	3/20/2006 9:48:55 PM
	17	DH005002G	Unknown	7	Anions_Program	Anions_Method	Finished	3/20/2006 10:03:32 PM
	18	DH005003G	Unknown	8	Anions_Program	Anions_Method	Finished	3/20/2006 10:18:08 PM
	19	DH005004G	Unknown	9	Anions_Program	Anions_Method	Finished	3/20/2006 10:32:44 PM
	20	DH005005G	Unknown	10	Anions_Program	Anions_Method	Finished	3/20/2006 10:47:21 PM
	21	DH005006G	Unknown	11	Anions_Program	Anions_Method	Finished	3/20/2006 11:01:57 PM
	22	DH009001G	Unknown	12	Anions_Program	Anions_Method	Finished	3/20/2006 11:16:34 PM
	23	DH009002G	Unknown	13	Anions_Program	Anions_Method	Finished	3/20/2006 11:31:10 PM
	24	CCVS	Unknown	10	Anions_Program	Anions_Method	Finished	3/20/2006 11:45:47 PM
	25	CCB	Unknown	11	Anions_Program	Anions_Method	Finished	3/21/2006 12:00:24 AM
IF, ICl, ISO4	26	DH009003G	Unknown	12	Anions_Program	Anions_Method	Finished	3/21/2006 12:15:01 AM
	27	DH009004G	Unknown	13	Anions_Program	Anions_Method	Finished	3/21/2006 12:29:37 AM
ICl	28	DH019001B	Unknown	6	Anions_Program	Anions_Method	Finished	3/21/2006 12:44:14 AM
ICl, ISO4	29	DH020003A	Unknown	7	Anions_Program	Anions_Method	Finished	3/21/2006 12:58:50 AM
	30	DH020004A	Unknown	8	Anions_Program	Anions_Method	Finished	3/21/2006 1:13:26 AM
	31	DH020005A	Unknown	8	Anions_Program	Anions_Method	Finished	3/21/2006 1:28:03 AM
IF, ICl, ISO4	32	DH005001G	Unknown	9	Anions_Program	Anions_Method	Finished	3/21/2006 1:42:39 AM
	33	DH005001G MS	Unknown	8	Anions_Program	Anions_Method	Finished	3/21/2006 1:57:16 AM
	34	DH005001G MSD	Unknown	9	Anions_Program	Anions_Method	Finished	3/21/2006 2:11:52 AM
	35	DH005002G	Unknown	10	Anions_Program	Anions_Method	Finished	3/21/2006 2:26:28 AM
	36	CCVS	Unknown	10	Anions_Program	Anions_Method	Finished	3/21/2006 2:41:05 AM
	37	CCB	Unknown	11	Anions_Program	Anions_Method	Finished	3/21/2006 2:55:41 AM
IF, ICl, ISO4	38	DH005003G	Unknown	11	Anions_Program	Anions_Method	Finished	3/21/2006 3:10:17 AM
	39	DH005004G	Unknown	11	Anions_Program	Anions_Method	Finished	3/21/2006 3:24:54 AM
	40	DH005005G	Unknown	12	Anions_Program	Anions_Method	Finished	3/21/2006 3:39:30 AM
	41	DH005006G	Unknown	13	Anions_Program	Anions_Method	Finished	3/21/2006 3:54:07 AM
	42	DH009001G	Unknown	13	Anions_Program	Anions_Method	Finished	3/21/2006 4:08:43 AM

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Title: Anions Calibration 092205
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\Anions 032006
Timebase: ICS-2000
#Samples: 54
Created: 3/20/2006 6:09:29 PM by RDDACQUWC8
Last Update: 3/20/2006 6:09:50 PM by RDDACQUWC8

	No.	Name	Type	Pos.	Program	Method	Status	Inj. Date/Time
IF, ICl, ISO4	43	DH009002G	Unknown	14	Anions_Program	Anions_Method	Finished	3/21/2006 4:23:19 AM
	44	DH009003G	Unknown	15	Anions_Program	Anions_Method	Finished	3/21/2006 4:37:56 AM
	45	DH009004G	Unknown	12	Anions_Program	Anions_Method	Finished	3/21/2006 4:52:32 AM
ICl	46	DH019001B	Unknown	13	Anions_Program	Anions_Method	Finished	3/21/2006 5:07:09 AM
ICl, ISO4	47	DH020003A	Unknown	13	Anions_Program	Anions_Method	Finished	3/21/2006 5:21:44 AM
	48	CCVS	Unknown	7	Anions_Program	Anions_Method	Finished	3/21/2006 5:36:21 AM
	49	CCB	Unknown	8	Anions_Program	Anions_Method	Finished	3/21/2006 5:50:57 AM
ICl, ISO4	50	DH020004A	Unknown	8	Anions_Program	Anions_Method	Finished	3/21/2006 6:05:33 AM
	51	DH020005A	Unknown	8	Anions_Program	Anions_Method	Finished	3/21/2006 6:20:10 AM
	52	CCVS	Unknown	8	Anions_Program	Anions_Method	Finished	3/21/2006 6:34:46 AM
	53	CCB	Unknown	8	Anions_Program	Anions_Method	Finished	3/21/2006 6:49:23 AM
	54	END	Unknown	14	Pump Shutdown	Anions_Method	Finished	3/21/2006 7:03:59 AM

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Title: Anions Calibration 092205
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\Anions 032006
Timebase: ICS-2000
#Samples: 54
Created: 3/20/2006 6:09:29 PM by RDDACQUWC8
Last Update: 3/20/2006 6:09:50 PM by RDDACQUWC8

No.	Dil. Factor
1	1.0000
2	1.0000
3	1.0000
4	1.0000
5	1.0000
6	1.0000
7	1.0000
8	1.0000
9	1.0000
10	1.0000
11	1.0000
12	1.0000
13	1.0000
14	1.0000
15	1.1000
16	1.1000
17	1.0000
18	1.0000
19	1.0000
20	1.0000
21	1.0000
22	1.0000
23	1.0000
24	1.0000
25	1.0000
26	1.0000
27	1.0000
28	1.0000
29	1.0000
30	1.0000
31	5.0000
32	5.0000
33	5.0000
34	5.0000
35	5.0000
36	1.0000
37	1.0000
38	5.0000
39	5.0000
40	5.0000
41	5.0000
42	5.0000

Title: Anions Calibration 092205
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\Anions 032006
Timebase: ICS-2000
#Samples: 54
Created: 3/20/2006 6:09:29 PM by RDDACQUWC8
Last Update: 3/20/2006 6:09:50 PM by RDDACQUWC8

No.	Dil. Factor
43	5.0000
44	5.0000
45	5.0000
46	5.0000
47	5.0000
48	1.0000
49	1.0000
50	1.0000
51	1.0000
52	1.0000
53	1.0000
54	1.0000

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D 009

Reviewed 3-23-06 CAS

Sequence: Anions 032006A
Operator: RDDACQUWC8
Printed: 3/21/2006 8:19:10 AM

Title: Anions Calibration 092205
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\Anions 032006
Timebase: ICS-2000
#Samples: 54
Created: 3/20/2006 6:09:29 PM by RDDACQUWC8
Last Update: 3/20/2006 6:09:50 PM by RDDACQUWC8

	No.	Name	Type	Pos.	Program	Method	Status	Inj. Date/Time
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	2	CS1	Standard	2	Anions_Program	Anions_Method	Finished	3/20/2006 6:24:26 PM
	3	CS2	Standard	3	Anions_Program	Anions_Method	Finished	3/20/2006 6:39:02 PM
	4	CS3	Standard	4	Anions_Program	Anions_Method	Finished	3/20/2006 6:53:39 PM
	5	CS4	Standard	5	Anions_Program	Anions_Method	Finished	3/20/2006 7:08:15 PM
	6	CS5	Standard	6	Anions_Program	Anions_Method	Finished	3/20/2006 7:22:52 PM
	7	CS6	Standard	7	Anions_Program	Anions_Method	Finished	3/20/2006 7:37:28 PM
	8	CS7	Standard	8	Anions_Program	Anions_Method	Finished	3/20/2006 7:52:05 PM
	9	ICVS/LCS	Unknown	9	Anions_Program	Anions_Method	Finished	3/20/2006 8:06:41 PM
	10	RL	Unknown	3	Anions_Program	Anions_Method	Finished	3/20/2006 8:21:18 PM
	11	ICB	Unknown	4	Anions_Program	Anions_Method	Finished	3/20/2006 8:35:54 PM
	12	MB	Unknown	5	Anions_Program	Anions_Method	Finished	3/20/2006 8:50:30 PM
	13	LCSD	Unknown	5	Anions_Program	Anions_Method	Finished	3/20/2006 9:05:06 PM
IF, ICl, ISO4	14	DH005001G	Unknown	6	Anions_Program	Anions_Method	Finished	3/20/2006 9:19:43 PM
	15	DH005001G MS	Unknown	7	Anions_Program	Anions_Method	Finished	3/20/2006 9:34:19 PM
	16	DH005001G MSD	Unknown	7	Anions_Program	Anions_Method	Finished	3/20/2006 9:48:55 PM
	17	DH005002G	Unknown	7	Anions_Program	Anions_Method	Finished	3/20/2006 10:03:32 PM
	18	DH005003G	Unknown	8	Anions_Program	Anions_Method	Finished	3/20/2006 10:18:08 PM
	19	DH005004G	Unknown	9	Anions_Program	Anions_Method	Finished	3/20/2006 10:32:44 PM
	20	DH005005G	Unknown	10	Anions_Program	Anions_Method	Finished	3/20/2006 10:47:21 PM
	21	DH005006G	Unknown	11	Anions_Program	Anions_Method	Finished	3/20/2006 11:01:57 PM
	22	DH009001G	Unknown	12	Anions_Program	Anions_Method	Finished	3/20/2006 11:16:34 PM
	23	DH009002G	Unknown	13	Anions_Program	Anions_Method	Finished	3/20/2006 11:31:10 PM
	24	CCVS	Unknown	10	Anions_Program	Anions_Method	Finished	3/20/2006 11:45:47 PM
	25	CCB	Unknown	11	Anions_Program	Anions_Method	Finished	3/21/2006 12:00:24 AM
IF, ICl, ISO4	26	DH009003G	Unknown	12	Anions_Program	Anions_Method	Finished	3/21/2006 12:15:01 AM
	27	DH009004G	Unknown	13	Anions_Program	Anions_Method	Finished	3/21/2006 12:29:37 AM
ICl	28	DH019001B	Unknown	6	Anions_Program	Anions_Method	Finished	3/21/2006 12:44:14 AM
ICl, ISO4	29	DH020003A	Unknown	7	Anions_Program	Anions_Method	Finished	3/21/2006 12:58:50 AM
	30	DH020004A	Unknown	8	Anions_Program	Anions_Method	Finished	3/21/2006 1:13:26 AM
	31	DH020005A	Unknown	8	Anions_Program	Anions_Method	Finished	3/21/2006 1:28:03 AM
IF, ICl, ISO4	32	DH005001G	Unknown	9	Anions_Program	Anions_Method	Finished	3/21/2006 1:42:39 AM
	33	DH005001G MS	Unknown	8	Anions_Program	Anions_Method	Finished	3/21/2006 1:57:16 AM
	34	DH005001G MSD	Unknown	9	Anions_Program	Anions_Method	Finished	3/21/2006 2:11:52 AM
	35	DH005002G	Unknown	10	Anions_Program	Anions_Method	Finished	3/21/2006 2:26:28 AM
	36	CCVS	Unknown	10	Anions_Program	Anions_Method	Finished	3/21/2006 2:41:05 AM
	37	CCB	Unknown	11	Anions_Program	Anions_Method	Finished	3/21/2006 2:55:41 AM
IF, ICl, ISO4	38	DH005003G	Unknown	11	Anions_Program	Anions_Method	Finished	3/21/2006 3:10:17 AM
	39	DH005004G	Unknown	11	Anions_Program	Anions_Method	Finished	3/21/2006 3:24:54 AM
	40	DH005005G	Unknown	12	Anions_Program	Anions_Method	Finished	3/21/2006 3:39:30 AM
	41	DH005006G	Unknown	13	Anions_Program	Anions_Method	Finished	3/21/2006 3:54:07 AM
	42	DH009001G	Unknown	13	Anions_Program	Anions_Method	Finished	3/21/2006 4:08:43 AM

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Title: Anions Calibration 092205
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\Anions 032006
Timebase: ICS-2000
#Samples: 54
Created: 3/20/2006 6:09:29 PM by RDDACQUWC8
Last Update: 3/20/2006 6:09:50 PM by RDDACQUWC8

	No.	Name	Type	Pos.	Program	Method	Status	Inj. Date/Time
IF, ICl, ISO4	43	DH009002G	Unknown	14	Anions_Program	Anions_Method	Finished	3/21/2006 4:23:19 AM
	44	DH009003G	Unknown	15	Anions_Program	Anions_Method	Finished	3/21/2006 4:37:56 AM
	45	DH009004G	Unknown	12	Anions_Program	Anions_Method	Finished	3/21/2006 4:52:32 AM
ICl	46	DH019001B	Unknown	13	Anions_Program	Anions_Method	Finished	3/21/2006 5:07:09 AM
ICl, ISO4	47	DH020003A	Unknown	13	Anions_Program	Anions_Method	Finished	3/21/2006 5:21:44 AM
	48	CCVS	Unknown	7	Anions_Program	Anions_Method	Finished	3/21/2006 5:36:21 AM
	49	CCB	Unknown	8	Anions_Program	Anions_Method	Finished	3/21/2006 5:50:57 AM
ICl, ISO4	50	DH020004A	Unknown	8	Anions_Program	Anions_Method	Finished	3/21/2006 6:05:33 AM
	51	DH020005A	Unknown	8	Anions_Program	Anions_Method	Finished	3/21/2006 6:20:10 AM
	52	CCVS	Unknown	8	Anions_Program	Anions_Method	Finished	3/21/2006 6:34:46 AM
	53	CCB	Unknown	8	Anions_Program	Anions_Method	Finished	3/21/2006 6:49:23 AM
	54	END	Unknown	14	Pump Shutdown	Anions_Method	Finished	3/21/2006 7:03:59 AM

Chromeleon © Dionex Corporation, Version 6.50 SP2 Build 968

Hardness

Page: 0413

C (EDTA) = 10 ml EDTA = 1.0

Hardness = 1000 (C) ml EDTA / Sample Volume

20 (C) = 20.00

LS 3/26/06 Analyst: ~~3/26/06~~ LS

Analysis Date: 3/26/06 @ 1415

Method: EPA130.2

Test Codes: Hard

Reporting Limit: 10 mg/L

Detection Limit: 4 mg/L

No.	Reference Number	mls of sample	Dilution Factor	Initial Buret Reading	Final Buret Reading	mL EDTA	Hardness mg $CaCO_3$ /L	Units	True Value	%RPD or % R
CB	DI	50	1	1.30	1.30	0.00	<4 <10			
CS	4223	4	1	1.30	11.30	10.00	2500		2500	100.0
LS 3/26/06 LCSD	4243	4	1	11.30	15.35	4.05 ~~15.35~~	1013		1000	101.3
ICVS/LCS	4243	4	1	15.35	19.45	4.10	1025		1000	102.5
ICB/MB	DI	50	1	19.45	19.45	0.000	<4 <10		CAS 3-27-06	
s	DH009-2H		1	19.45	24.80	3.35	~~67~~ 107			99.0
s	-2MS H		1	24.80	40.05	15.25	305		200	~~H~~99.0
s	-2MSD H		1	25.60	40.80	15.20	304		200	~~H~~8.5 98.5
s										
s										
s									

Columbia Analytical Services - Redding, CA

Nitrate - Nitrite Nitrogen in Water by
Lachat Auto-Analyzer
EPA 353.2 (NO3+NO2), 354.1 (NO2)
Test Codes: NO3/2AW, NO3AW, NO2AW

Reporting Limit: 0.02 mg/L
Detection Limit: 0.005 mg/L

Spike Information

Spike ID	Conc	Spk mL	Sx mL
4199	25	0.2	10

Work Group #: NO3AW 060322
Analyst: M Pittman
Analysis Date: 03/22/2006@1659
Analyst Review: MP 3/23/06
Supervisor Review: CAS 3-23-06

Sx Type	Reference Number	Analysis Date	Analysis Time	Cup Number	Repeat Number	DF	Raw Value	Final mg/L	Qual	MDL mg/L	RL mg/L	QC Value mg/L	True Value	%R	%RPD	Remarks			
	Cal Blank	3/22/2006	16:59	1	1	1	0	NO3/2-N											
	Cal Std 1	3/22/2006	17:01	2	1	1	0.02	or											
	Cal Std 2	3/22/2006	17:02	3	1	1	0.1	NO2-N								NO3-N Calculation			
	Cal Std 3	3/22/2006	17:03	4	1	1	0.8									Report	NO2-N	NO3-N	Qual
	Cal Std 4	3/22/2006	17:04	5	1	1	1									NO3-N	mg/L	mg/L	Qual
QC	ICVS	3/22/2006	17:05	6	1	1	0.504	0.504		0.005	0.020	0.5040	0.500	100.8					
QC	0.5 PPM NO2	3/22/2006	17:08	7	1	1	0.521	0.521		0.005	0.020	0.5210	0.500	104.2					
QC	ICB	3/22/2006	17:10	8	1	1	0.0009	0.005	U	0.005	0.020	0.0000							
QC	CCV	3/22/2006	17:11	4	1	1	0.803	0.803		0.005	0.020	0.8030	0.800	100.4					
QC	CCB	3/22/2006	17:14	1	1	1	0.0013	0.005	U	0.005	0.020	0.0000							
QC	MB	3/22/2006	17:16	9	1	1	0.001	0.005	U	0.005	0.020	0.0000							
QC	LCS	3/22/2006	17:18	10	1	1	0.506	0.506		0.005	0.020	0.5060	0.500	101.2					
LCSD	LCSD	3/22/2006	17:21	11	1	1	0.506	0.506		0.005	0.020	0.5060	0.500	101.2	0.0				
SX	DG948-1A	3/22/2006	17:23	12	1	1	0.723	0.723		0.005	0.020					X	0.004J	0.723	
SX	DG948-2A	3/22/2006	17:24	13	1	1	0.729	0.729		0.005	0.020					X	0.003J	0.729	
SX	DH005-1H	3/22/2006	17:26	14	1	1	0.111	0.111		0.005	0.020					X	0.006J	0.111	
SX	DH005-2H	3/22/2006	17:27	15	1	1	-0.0028	0.005	U	0.005	0.020					X	0.005J	0.005	U
SX	DH005-3H	3/22/2006	17:28	16	1	1	0.015	0.015	J	0.005	0.020					X	0.004J	0.015	J
SX	DH005-4H	3/22/2006	17:29	17	1	1	0.046	0.046		0.005	0.020					X	0.003J	0.046	
SX	DH005-5H	3/22/2006	17:30	18	1	10	0.643	6.430		0.050	0.200					X	0.004J	6.430	
QC	CCV	3/22/2006	17:32	4	2	1	0.81	0.810		0.005	0.020	0.8100	0.800	101.3					
QC	CCB	3/22/2006	17:34	1	2	1	0.0011	0.005	U	0.005	0.020	0.0000							
SX	DH005-6H	3/22/2006	17:36	19	1	5	0.47	2.350		0.025	0.100					X	0.025	2.330	
SX	DH009-1S	3/22/2006	17:37	20	1	10	0.593	5.930		0.050	0.200					X	0.01J	5.930	
SX	DH009-2S	3/22/2006	17:39	21	1	1	1.65	1.650		0.005	0.020					X	0.027	1.620	
SX	DH009-3S	3/22/2006	17:40	22	1	5	1.04	5.200		0.025	0.100					X	0.011J	5.200	
SX	DH009-4S	3/22/2006	17:41	23	1	1	-0.001	0.005	U	0.005	0.020					X	0.002U	0.005	U
QC	DH011-1K	3/22/2006	17:42	24	1	10	3.31	33.100		0.050	0.200	33.1000							
MS	DH011-1MS	3/22/2006	17:44	25	1	10	3.64	36.400		0.050	0.200	36.4000	5.000	66.0					
MSD	DH011-1MSD	3/22/2006	17:45	26	1	10	3.72	37.200		0.050	0.200	37.2000	5.000	82.0	2.2				

Columbia Analytical Services - Redding, CA

Nitrate - Nitrite Nitrogen in Water by
Lachat Auto-Analyzer
EPA 353.2 (NO3+NO2), 354.1 (NO2)
Test Codes: NO3/2AW, NO3AW, NO2AW

Reporting Limit: 0.02 mg/L
Detection Limit: 0.005 mg/L

Spike Information

Spike ID	Conc	Spk mL	Sx mL
4199	25	0.2	10

Work Group #: NO3AW 060322
Analyst: M Pittman
Analysis Date: 03/22/2006@1659
Analyst Review: MP 3/23/06
Supervisor Review:

Sx Type	Reference Number	Analysis Date	Analysis Time	Cup Number	Repeat Number	DF	Raw Value	Final mg/L	Qual	MDL mg/L	RL mg/L	QC Value mg/L	True Value	%R	%RPD	Remarks			
SX	DH011-2K	3/22/2006	17:46	27	1	10	1.63	16.300		0.050	0.200								
SX	DH011-3K	3/22/2006	17:47	28	1	10	1.84	18.400		0.050	0.200								
QC	CCV	3/22/2006	17:48	4	3	1	0.806	0.806		0.005	0.020	0.8060	0.800	100.8					
QC	CCB	3/22/2006	17:51	1	3	1	0.0009	0.005	U	0.005	0.020	0.0000							
SX	DH011-4K	3/22/2006	17:53	29	1	10	0.687	6.870		0.050	0.200								
SX	DH014-1M	3/22/2006	17:54	30	1	1	0.0183	0.018	J	0.005	0.020								
SX	DH014-2M	3/22/2006	17:55	31	1	1	0.0054	0.005	J	0.005	0.020								
QC	MB#2	3/22/2006	17:57	32	1	1	0.0013	0.005	U	0.005	0.020	0.0000							
QC	LCS#2	3/22/2006	17:59	33	1	1	0.507	0.507		0.005	0.020	0.5070	0.500	101.4					
QC	LCSD#2	3/22/2006	18:01	34	1	1	0.507	0.507		0.005	0.020	0.5070	0.500	101.4					
SX	DH014-3M	3/22/2006	18:04	35	1	1	0.0051	0.005	J	0.005	0.020								
SX	DH014-4M	3/22/2006	18:05	36	1	1	0.0662	0.066		0.005	0.020								
SX	DH018-1M	3/22/2006	18:06	37	1	1	0.556	0.556		0.005	0.020								
SX	DH018-2M	3/22/2006	18:07	38	1	1	0.0056	0.006	J	0.005	0.020								
QC	CCV	3/22/2006	18:09	4	4	1	0.81	0.810		0.005	0.020	0.8100	0.800	101.3					
QC	CCB	3/22/2006	18:11	1	4	1	0.0017	0.005	U	0.005	0.020	0.0000							
SX	DH018-3M	3/22/2006	18:13	39	1	1	0.0041	0.005	U	0.005	0.020								
SX	DH020-3G	3/22/2006	18:15	40	1	1	0.755	0.755		0.005	0.020					X	0.003J	0.755	
SX	DH020-4G	3/22/2006	18:16	41	1	1	0.966	0.966		0.005	0.020					X	0.004J	0.966	
SX	DH020-5G	3/22/2006	18:17	42	1	1	1.22	1.220		0.005	0.020					X	0.003J	1.220	
QC	DH028-1A	3/22/2006	18:18	43	1	1	0.371	0.371		0.005	0.020	0.3710				X	0.017J	0.371	
MS	DH028-1MS	3/22/2006	18:19	44	1	1	0.872	0.872		0.005	0.020	0.8720	0.500	100.2		X	0.017J	0.872	
MSD	DH028-1MSD	3/22/2006	18:21	45	1	1	0.875	0.875		0.005	0.020	0.8750	0.500	100.8	0.3	X	0.017J	0.875	
SX	DH028-2A	3/22/2006	18:22	46	1	1	0.522	0.522		0.005	0.020					X	0.012J	0.522	
SX	DH031-1A	3/22/2006	18:23	47	1	1	0.302	0.302		0.005	0.020					X	0.026	0.276	
SX	DH031-2A	3/22/2006	18:24	48	1	1	0.126	0.126		0.005	0.020					X	0.118	0.008	J
QC	CCV	3/22/2006	18:25	4	5	1	0.81	0.810		0.005	0.020	0.8100	0.800	101.3					
QC	CCB	3/22/2006	18:28	1	5	1	0.0026	0.005	U	0.005	0.020	0.0000							
SX	DH031-3A	3/22/2006	18:30	49	1	1	0.316	0.316		0.005	0.020					X	0.019J	0.316	
SX	DH031-4A	3/22/2006	18:31	50	1	1	0.307	0.307		0.005	0.020					X	0.02	0.287	

Columbia Analytical Services - Redding, CA

Nitrite Nitrogen in Water
EPA 354.1
Test Codes: NO2

Reporting Limit: 0.02 mg/L
Detection Limit: 0.002 mg/L

Spike Information

Spike ID	Conc	Spk mL	Sx mL
G38375	1.00	1.00	10.0

Work Group #: NO2 20060309
Analyst: LSMITH
Analysis Date & Time: 3/9/06 @ 0845
Analyst Review: LD 3/23/06
Supervisor Review: CAS 3-24-06

No.	Reference Number	Sx Type	HT met	mLs color.	Blank Sx Abs.	Sx/Reag Abs.	Initial mg/L	Dil. Factor	Final mg/L	Qual	MDL mg/L	RL mg/L	QC Value mg/L	True Value	%R	%RPD	Linear Regression Data	
CB	DI	C		10		0.000								0.000			r:	0.9999
CS1	G38375	C		10		0.026								0.010			m:	0.342
CS2	G38375	C		10		0.052								0.020			b:	0.0008
CS3	G38375	C		10		0.294								0.100				
CS4	G38375	C		10		0.581								0.200			Sx Remarks	
ICV/LCS	G38376	QC		10		0.444	0.1526	1	0.153		0.002	0.020	0.1526	0.150	101.7			
ICB	ICB	QC		10		0.004	0.0022	1	0.002	J	0.002	0.020	0.0022					
MB	MB	QC		10		0.002	0.0015	1	0.002	U	0.002	0.020	0.0000					
LCSD	G38376	QC		10		0.440	0.1513	1	0.151		0.002	0.020	0.1513	0.150	100.9			
QC	DH009001G	QC	Yes	10	0.002	0.029	0.0101	1	0.010	J	0.002	0.020	0.0101					
MS	DH009001G MS	MS	Yes	11	0.002	0.268	0.0918	1.1	0.100		0.002	0.022	0.1010	0.100	90.9			
MSD	DH009001G MSD	MSD	Yes	11	0.002	0.273	0.0935	1.1	0.100		0.002	0.022	0.1030	0.100	92.9			
sx	DH009002G	Sx	Yes	10	0.101	0.161	0.0214	1	0.021		0.002	0.020					RETEST	
sx	DH009003G	Sx	Yes	10	0.023	0.054	0.0114	1	0.011	J	0.002	0.020						
sx	DH009004G	Sx	Yes	10	0.014	0.013	0.0005	1	0.002	U	0.002	0.020						
sx	DH009002G	Sx	Yes	5	0.048	0.085	0.0135	2	0.027	J	0.004	0.040						
sx																		
sx																		
CCVS	CCVS	QC		10	0.000	0.288	0.0993	1	0.099		0.002	0.020	0.0993	0.100	99.3			
CCB	CCB	QC		10	0.000	0.003	0.0019	1	0.002	U	0.002	0.020	0.0000					
sx																		
sx																		
sx																		
sx																		
CCVS																		

Columbia Analytical Services - Redding, CA

Total Dissolved Solids in Water

Gravimetric, 180C Reporting Limit: 20 mg/L

EPA 160.1 Detection Limit: 13 mg/L

Test Codes: TDS

Work Group #:	TDS 060315
Analyst:	LS
Analysis Date:	3/15/06 @ 2000
Analyst Review:	3/15/06 3/20/06
Supervisor Review:	CAS 3-27-06

Sx Type	Reference Number	Cup No.	Sample Vol. mL	Initial Wt. Gram	Final Wt. #1 g	Final Wt. #2 g	Wt. Verified	Dilution Factor	Final mg/L	Qual	MDL mg/L	RL mg/L	QC Value mg/L	True Value	%R	%RPD	Remarks
	VERIFICATION	1	100	99.9986	99.9987	99.9986											
QC	MB	2	100	111.0814	111.0823	111.0828	pass	1	13	U	13	20	0				
QC	LCS	3	100	114.4947	114.5528	114.5529	pass	1	581		13	20	581	575	101.0		
QC	LCSD	4	100	82.2504	82.3083	82.3082	pass	1	579		13	20	579	575	100.7	0.3	
Sx	DH009001G	5	100	46.2965	46.3455	46.3449	pass	1	490		13	20					
Sx	DH009001 DUP	6	100	80.5327	80.5818	80.5817	pass	1	491		13	20				0.2	
Sx	DH009002G	7	100	79.1667	79.1993	79.1984	pass	1	326		13	20					
Sx	DH009003G	8	100	114.4753	114.5101	114.5111	pass	1	348		13	20					
Sx	DH009004G	9	100	49.2715	49.3245	49.3240	pass	1	530		13	20					

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: E160.1 Matrix: Water

Instrument ID: _____

Concentration Units (ug/L or mg/kg): MG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
Total Dissolved Solids	04/19/2005	50	59	59	61	62	53	64	55	51	4.6	13

MDL FORM Method E160.1

RDD-060329:CS:BS-1245PST-SR:DH060009-DH009-W

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: SW9010 Matrix: Water

Instrument ID: _____

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
Cyanide, Distilled	11/15/2005	5.0	0.7	1.3	1.3	1.9	2.6	1.3	1.9		0.61	1.9

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: SW9060 Matrix: Water

Instrument ID: _____

Concentration Units (ug/L or mg/kg): MG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
Total Organic Carbon	05/02/2005	0.50	0.51	0.47	0.44	0.40	0.44	0.43	0.43	0.43	0.033	0.10

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: E300 Matrix: Water

Instrument ID: ICS2000

Concentration Units (ug/L or mg/kg): MG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
Sulfate	08/20/2005	0.20	0.376	0.375	0.372	0.374	0.374	0.372	0.370	0.372	0.0020	0.20
Chloride	08/20/2005	0.50	0.558	0.607	0.625	0.643	0.509	0.511	0.496	0.519	0.059	0.18
Fluoride	08/20/2005	0.13	0.093	0.095	0.094	0.119	0.092	0.114	0.113	0.114	0.012	0.035

Method Detection Limit Study

Columbia Analytical Services
Redding, CA

Analysis Method:	E310.1	**Analyst:**	c.skillern
Extraction Method:	NONE	**Instrument:**	
Matrix:	WATER	**Description:**	Alkalinity
MDL Effective Date:	2/9/2005	**Deptartment:**	GN

#	Compound	CAS No.	Date	MDL
	Alkalinity	ALK	2/9/2005	2

MG/L	1	2	3	4	5	6	7
10.0	13.0	12.0	13.0	14.0	13.0	13.0	13.0

Mean	Std Dev
13.000	0.58

Method Detection Limit Study

Columbia Analytical Services
Redding, CA

Analysis Method:	EPA 130.2	**Analyst:**	Carol Skillern
Extraction Method:	N/A	**Instrument:**	N/A
Matrix/Amount:	WATER	**Dept:**	GN
MDL Effective Date:	5/19/2005		

Raw Data

#	Compound	Date	MDL	[mg/L]	1	2	3	4	5	6	7	8	Mean	Std Dev
1	HARD - Hardness	05/19/05	2	10.00	10.1	11.1	10.1	9.5	11.1	9.5	10.1	9.5	10.125	0.663

Method Detection Limit Study

Columbia Analytical Services
Redding, CA

Analysis Method:	EPA 353.2	**Analyst:**	M.PITTMAN
Extraction Method:	N/A	**Instrument:**	Lachat Auto-Analyzer
Matrix/Amount:	Water	**Column:**	N/A
MDL Effective Date:	6/24/2005	**Dept:**	GN

#	Compound	Date	MDL
1	Nitrate-Nitrite	6/24/2005	0.0029

Raw Data

[mg/L]	1	2	3	4	5	6	7	8
0.010	0.0149	0.0158	0.0141	0.0139	0.0154	0.0135	0.0142	0.0132

Mean	Std Dev
0.0144	0.00091

Method Detection Limit Study

Columbia Analytical Services
Redding, CA

Analysis Method:	EPA 354.1	**Analyst:**	B.Coleman
Extraction Method:	N/A	**Instrument:**	N/A
Matrix/Amount:	Water	**Dept:**	GN
MDL Effective Date:	7/14/2005		

#	Compound	Date	MDL
1	Nitrite- NO2	7/14/2005	0.0010

Raw Data

[mg/L]	1	2	3	4	5	6	7
0.010	0.0111	0.0114	0.0107	0.0111	0.0107	0.0114	0.0107

Mean	Std Dev
0.011	0.0003

Metals

Sample Results

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: 03/08/2006
Date Received: 03/09/2006

Trace Metals

Sample Name: LF01GW01CL
Lab Code: DH009001
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
Aluminum	FLDFLT	SW6010	100	1	03/15/2006	03/17/2006	ND	U
Antimony	FLDFLT	SW6020	2.0	1	03/15/2006	03/31/2006	ND	U
Arsenic	FLDFLT	SW6020	2.0	1	03/15/2006	04/13/2006	ND	U
Barium	FLDFLT	SW6010	10.0	1	03/15/2006	03/17/2006	130	
Beryllium	FLDFLT	SW6020	1.0	1	03/15/2006	04/13/2006	ND	U
Cadmium	FLDFLT	SW6020	1.0	1	03/15/2006	04/13/2006	ND	U
Calcium	FLDFLT	SW6010	500	1	03/15/2006	03/17/2006	55000	
Chromium	FLDFLT	SW6010	10.0	1	03/15/2006	03/17/2006	ND	U
Cobalt	FLDFLT	SW6020	1.0	1	03/15/2006	04/03/2006	ND	U
Copper	FLDFLT	SW6020	2.0	1	03/15/2006	04/03/2006	ND	U
Iron	FLDFLT	SW6010	100	1	03/15/2006	03/17/2006	ND	U
Lead	FLDFLT	SW6020	1.00	1	03/15/2006	04/03/2006	ND	U
Magnesium	FLDFLT	SW6010	500	1	03/15/2006	03/17/2006	74000	
Manganese	FLDFLT	SW6010	10.0	1	03/15/2006	03/17/2006	ND	U
Nickel	FLDFLT	SW6020	2.0	1	03/15/2006	04/03/2006	8.4	
Potassium	FLDFLT	SW6010	5000	1	03/15/2006	03/17/2006	ND	U
Selenium	FLDFLT	SW6020	2.0	1	03/15/2006	04/13/2006	ND	U
Silver	FLDFLT	SW6020	1.0	1	03/15/2006	03/31/2006	ND	U
Sodium	FLDFLT	SW6010	5000	1	03/15/2006	03/17/2006	35000	
Thallium	FLDFLT	SW6020	1.0	1	03/15/2006	04/13/2006	ND	U
Vanadium	FLDFLT	SW6010	10.0	1	03/15/2006	03/17/2006	ND	U
Zinc	FLDFLT	SW6010	20.0	1	03/15/2006	03/17/2006	ND	U

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: 03/08/2006
Date Received: 03/09/2006

Trace Metals

Sample Name: DAESP03CL
Lab Code: DH009002
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
Sodium	FLDFLT	SW6010	5000	1	03/15/2006	03/17/2006	26000	
Sodium	TOTAL	SW6010	5000	1	03/15/2006	03/17/2006	26000	
Thallium	FLDFLT	SW6020	1.0	1	03/15/2006	04/13/2006	ND	U
Thallium	TOTAL	SW6020	1.0	1	03/15/2006	04/13/2006	ND	U
Vanadium	FLDFLT	SW6010	10.0	1	03/15/2006	03/17/2006	ND	U
Vanadium	TOTAL	SW6010	10.0	1	03/15/2006	03/17/2006	23.0	
Zinc	FLDFLT	SW6010	20.0	1	03/15/2006	03/17/2006	20.0	
Zinc	TOTAL	SW6010	20.0	1	03/15/2006	03/17/2006	51.0	

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: 03/08/2006
Date Received: 03/09/2006

Trace Metals

Sample Name: DAESP03CL
Lab Code: DH009002
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
Aluminum	FLDFLT	SW6010	100	1	03/15/2006	03/17/2006	140	
Aluminum	TOTAL	SW6010	100	1	03/15/2006	03/17/2006	6400	
Antimony	FLDFLT	SW6020	2.0	1	03/15/2006	03/31/2006	ND	U
Antimony	TOTAL	SW6020	2.0	1	03/15/2006	03/31/2006	ND	U
Arsenic	FLDFLT	SW6020	2.0	1	03/15/2006	04/13/2006	ND	U
Arsenic	TOTAL	SW6020	2.0	1	03/15/2006	04/13/2006	ND	U
Barium	FLDFLT	SW6010	10.0	1	03/15/2006	03/17/2006	46.0	
Barium	TOTAL	SW6010	10.0	1	03/15/2006	03/17/2006	84.0	
Beryllium	FLDFLT	SW6020	1.0	1	03/15/2006	04/13/2006	ND	U
Beryllium	TOTAL	SW6020	1.0	1	03/15/2006	04/13/2006	ND	U
Cadmium	FLDFLT	SW6020	1.0	1	03/15/2006	04/13/2006	ND	U
Cadmium	TOTAL	SW6020	1.0	1	03/15/2006	04/13/2006	ND	U
Calcium	FLDFLT	SW6010	500	1	03/15/2006	03/17/2006	12000	
Calcium	TOTAL	SW6010	500	1	03/15/2006	03/17/2006	12000	
Chromium	FLDFLT	SW6010	10.0	1	03/15/2006	03/17/2006	ND	U
Chromium	TOTAL	SW6010	10.0	1	03/15/2006	03/17/2006	72.0	
Cobalt	FLDFLT	SW6020	1.0	1	03/15/2006	04/03/2006	ND	U
Cobalt	TOTAL	SW6020	1.0	1	03/15/2006	04/03/2006	2.7	
Copper	FLDFLT	SW6020	2.0	1	03/15/2006	04/03/2006	6.6	
Copper	TOTAL	SW6020	2.0	1	03/15/2006	04/03/2006	12.0	
Iron	FLDFLT	SW6010	100	1	03/15/2006	03/17/2006	430	
Iron	TOTAL	SW6010	100	1	03/15/2006	03/17/2006	9700	
Lead	FLDFLT	SW6020	1.00	1	03/15/2006	04/03/2006	2.20	
Lead	TOTAL	SW6020	1.00	1	03/15/2006	04/03/2006	14.00	
Magnesium	FLDFLT	SW6010	500	1	03/15/2006	03/17/2006	22000	
Magnesium	TOTAL	SW6010	500	1	03/15/2006	03/17/2006	23000	
Manganese	FLDFLT	SW6010	10.0	1	03/15/2006	03/17/2006	30.0	
Manganese	TOTAL	SW6010	10.0	1	03/15/2006	03/17/2006	110	
Mercury	FLDFLT	SW7470	0.200	1	04/20/2006	04/20/2006	ND	U
Mercury	TOTAL	SW7470	0.200	1	03/15/2006	03/16/2006	ND	U
Molybdenum	FLDFLT	SW6010	20.0	1	03/15/2006	03/17/2006	ND	U
Nickel	FLDFLT	SW6020	2.0	1	03/15/2006	04/03/2006	51.0	
Nickel	TOTAL	SW6020	2.0	1	03/15/2006	04/03/2006	98.0	
Potassium	FLDFLT	SW6010	5000	1	03/15/2006	03/17/2006	ND	U
Potassium	TOTAL	SW6010	5000	1	03/15/2006	03/17/2006	ND	U
Selenium	FLDFLT	SW6020	2.0	1	03/15/2006	04/13/2006	ND	U
Selenium	TOTAL	SW6020	2.0	1	03/15/2006	04/13/2006	ND	U
Silver	FLDFLT	SW6020	1.0	1	03/15/2006	03/31/2006	ND	U
Silver	TOTAL	SW6020	1.0	1	03/15/2006	03/31/2006	ND	U

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH009
Project:	PRESIDIO	**Date Collected:**	03/08/2006
Sample Matrix:	Water	**Date Received:**	03/09/2006

Trace Metals

Sample Name: BB3SW104CL
Lab Code: DH009003
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
Thallium	TOTAL	SW6020	1.0	1	03/15/2006	04/13/2006	ND	U
Vanadium	FLDFLT	SW6010	10.0	1	03/15/2006	03/17/2006	ND	U
Vanadium	TOTAL	SW6010	10.0	1	03/15/2006	03/17/2006	29.0	
Zinc	FLDFLT	SW6010	20.0	1	03/15/2006	03/17/2006	ND	U
Zinc	TOTAL	SW6010	20.0	1	03/15/2006	03/17/2006	54.0	

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH009
Project:	PRESIDIO	**Date Collected:**	03/08/2006
Sample Matrix:	Water	**Date Received:**	03/09/2006

Trace Metals

Sample Name: 231GW21CL
Lab Code: DH009004
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
Aluminum	FLDFLT	SW6010	100	1	03/15/2006	03/17/2006	ND	U
Arsenic	FLDFLT	SW6020	2.0	1	03/15/2006	04/13/2006	19.0	
Cadmium	FLDFLT	SW6020	1.0	1	03/15/2006	04/13/2006	ND	U
Calcium	FLDFLT	SW6010	500	1	03/15/2006	03/17/2006	68000	
Chromium	FLDFLT	SW6010	10.0	1	03/15/2006	03/17/2006	ND	U
Copper	FLDFLT	SW6020	2.0	1	03/15/2006	04/03/2006	ND	U
Iron	FLDFLT	SW6010	100	1	03/15/2006	03/17/2006	24000	
Lead	FLDFLT	SW6020	1.00	1	03/15/2006	04/03/2006	4.20	
Magnesium	FLDFLT	SW6010	500	1	03/15/2006	03/17/2006	50000	
Manganese	FLDFLT	SW6010	10.0	1	03/15/2006	03/17/2006	1100	
Nickel	FLDFLT	SW6020	2.0	1	03/15/2006	04/03/2006	3.6	
Potassium	FLDFLT	SW6010	5000	1	03/15/2006	03/17/2006	ND	U
Sodium	FLDFLT	SW6010	5000	1	03/15/2006	03/17/2006	48000	
Zinc	FLDFLT	SW6010	20.0	1	03/15/2006	03/17/2006	ND	U

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: 03/08/2006
Date Received: 03/09/2006

Trace Metals

Sample Name: BB3SW104CL
Lab Code: DH009003
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
Aluminum	FLDFLT	SW6010	100	1	03/15/2006	03/17/2006	ND	U
Aluminum	TOTAL	SW6010	100	1	03/15/2006	03/17/2006	5300	
Antimony	FLDFLT	SW6020	2.0	1	03/15/2006	03/31/2006	ND	U
Antimony	TOTAL	SW6020	2.0	1	03/15/2006	03/31/2006	ND	U
Arsenic	FLDFLT	SW6020	2.0	1	03/15/2006	04/13/2006	ND	U
Arsenic	TOTAL	SW6020	2.0	1	03/15/2006	04/13/2006	2.5	
Barium	FLDFLT	SW6010	10.0	1	03/15/2006	03/17/2006	21.0	
Barium	TOTAL	SW6010	10.0	1	03/15/2006	03/17/2006	130	
Beryllium	FLDFLT	SW6020	1.0	1	03/15/2006	04/13/2006	ND	U
Beryllium	TOTAL	SW6020	1.0	1	03/15/2006	04/13/2006	ND	U
Cadmium	FLDFLT	SW6020	1.0	1	03/15/2006	04/13/2006	ND	U
Cadmium	TOTAL	SW6020	1.0	1	03/15/2006	04/13/2006	ND	U
Calcium	FLDFLT	SW6010	500	1	03/15/2006	03/17/2006	21000	
Calcium	TOTAL	SW6010	500	1	03/15/2006	03/17/2006	28000	
Chromium	FLDFLT	SW6010	10.0	1	03/15/2006	03/17/2006	12.0	
Chromium	TOTAL	SW6010	10.0	1	03/15/2006	03/17/2006	42.0	
Cobalt	FLDFLT	SW6020	1.0	1	03/15/2006	04/03/2006	ND	U
Cobalt	TOTAL	SW6020	1.0	1	03/15/2006	04/03/2006	9.0	
Copper	FLDFLT	SW6020	2.0	1	03/15/2006	04/03/2006	3.0	
Copper	TOTAL	SW6020	2.0	1	03/15/2006	04/03/2006	8.4	
Iron	FLDFLT	SW6010	100	1	03/15/2006	03/17/2006	ND	U
Iron	TOTAL	SW6010	100	1	03/15/2006	03/17/2006	7300	
Lead	FLDFLT	SW6020	1.00	1	03/15/2006	04/03/2006	ND	U
Lead	TOTAL	SW6020	1.00	1	03/15/2006	04/03/2006	8.40	
Magnesium	FLDFLT	SW6010	500	1	03/15/2006	03/17/2006	36000	
Magnesium	TOTAL	SW6010	500	1	03/15/2006	03/17/2006	42000	
Manganese	FLDFLT	SW6010	10.0	1	03/15/2006	03/17/2006	11.0	
Manganese	TOTAL	SW6010	10.0	1	03/15/2006	03/17/2006	370	
Nickel	FLDFLT	SW6020	2.0	1	03/15/2006	04/03/2006	10.0	
Nickel	TOTAL	SW6020	2.0	1	03/15/2006	04/03/2006	38.0	
Potassium	FLDFLT	SW6010	5000	1	03/15/2006	03/17/2006	ND	U
Potassium	TOTAL	SW6010	5000	1	03/15/2006	03/17/2006	ND	U
Selenium	FLDFLT	SW6020	2.0	1	03/15/2006	04/13/2006	ND	U
Selenium	TOTAL	SW6020	2.0	1	03/15/2006	04/13/2006	ND	U
Silver	FLDFLT	SW6020	1.0	1	03/15/2006	03/31/2006	ND	U
Silver	TOTAL	SW6020	1.0	1	03/15/2006	03/31/2006	ND	U
Sodium	FLDFLT	SW6010	5000	1	03/15/2006	03/17/2006	49000	
Sodium	TOTAL	SW6010	5000	1	03/15/2006	03/17/2006	54000	
Thallium	FLDFLT	SW6020	1.0	1	03/15/2006	04/13/2006	ND	U

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QA Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: NA
Date Received: NA

Trace Metals

Sample Name: Method Blank
Lab Code: PBW-0315
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
Aluminum	TOTAL	SW6010	100.0	1	03/15/2006	03/17/2006	ND	U
Antimony	TOTAL	SW6020	2.000	1	03/15/2006	03/31/2006	ND	U
Arsenic	TOTAL	SW6020	2.000	1	03/15/2006	04/13/2006	ND	U
Barium	TOTAL	SW6010	10.0	1	03/15/2006	03/17/2006	ND	U
Beryllium	TOTAL	SW6020	1.000	1	03/15/2006	04/13/2006	ND	U
Cadmium	TOTAL	SW6020	1.000	1	03/15/2006	04/13/2006	ND	U
Calcium	TOTAL	SW6010	500.0	1	03/15/2006	03/17/2006	ND	U
Chromium	TOTAL	SW6010	10.0	1	03/15/2006	03/17/2006	ND	U
Cobalt	TOTAL	SW6020	1.000	1	03/15/2006	04/03/2006	ND	U
Copper	TOTAL	SW6020	2.000	1	03/15/2006	04/03/2006	ND	U
Iron	TOTAL	SW6010	100.0	1	03/15/2006	03/17/2006	ND	U
Lead	TOTAL	SW6020	1.000	1	03/15/2006	04/03/2006	ND	U
Magnesium	TOTAL	SW6010	500.0	1	03/15/2006	03/17/2006	ND	U
Manganese	TOTAL	SW6010	10.0	1	03/15/2006	03/17/2006	ND	U
Mercury	TOTAL	SW7470	0.20	1	03/15/2006	03/16/2006	ND	U
Molybdenum	TOTAL	SW6010	20.0	1	03/15/2006	03/17/2006	ND	U
Nickel	TOTAL	SW6020	2.000	1	03/15/2006	04/03/2006	ND	U
Potassium	TOTAL	SW6010	5000.0	1	03/15/2006	03/17/2006	ND	U
Selenium	TOTAL	SW6020	2.000	1	03/15/2006	04/13/2006	ND	U
Silver	TOTAL	SW6020	1.000	1	03/15/2006	03/31/2006	ND	U
Sodium	TOTAL	SW6010	5000.0	1	03/15/2006	03/17/2006	ND	U
Thallium	TOTAL	SW6020	1.000	1	03/15/2006	04/13/2006	ND	U
Vanadium	TOTAL	SW6010	10.0	1	03/15/2006	03/17/2006	ND	U
Zinc	TOTAL	SW6010	20.0	1	03/15/2006	03/17/2006	ND	U

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QA Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH009
Project:	PRESIDIO	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Trace Metals

Sample Name: Method Blank
Lab Code: PBW-0420
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
Mercury	TOTAL	SW7470	0.200	1	04/20/2006	04/20/2006	ND	U

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH009
Project:	PRESIDIO	**Date Extracted:**	03/12/2006
Sample Matrix:	Water	**Date Analyzed:**	03/12/2006

Trace Metals

LCS Sample Name:	Lab Control Sample		
Lab Code:	LCSW-0312	Units:	ug/L (ppb)
Test Notes:		Basis:	NA

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result	Spike % Rec	CAS Acceptance Limits	Result Notes
Mercury	FLDFLT	SW7470	0.20	2.00	2.00	100	80-120	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH009
Project:	PRESIDIO	**Date Extracted:**	03/12/2006
Sample Matrix:	Water	**Date Analyzed:**	03/12/2006

Trace Metals

LCS Sample Name:	Lab Control Sample		
Lab Code:	LCSDW-0312	Units:	ug/L (ppb)
Test Notes:		Basis:	NA

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result	Spike % Rec	CAS Acceptance Limits	Result Notes
Mercury	FLDFLT	SW7470	0.20	2.00	1.99	100	80-120	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH009
Project:	PRESIDIO	**Date Extracted:**	03/15/2006
Sample Matrix:	Water	**Date Analyzed:**	03/17/2006

Trace Metals

LCS Sample Name:	Lab Control Sample		
Lab Code:	LCSW-0315	Units:	ug/L (ppb)
Test Notes:		Basis:	NA

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result	Spike % Rec	CAS Acceptance Limits	Result Notes
Aluminum	TOTAL	SW6010	100.0	2000.0	2300.0	115	80-120	
Antimony	TOTAL	SW6020	20.000	20.0	1170.000	5850.0	80-120	
Arsenic	TOTAL	SW6020	2.000	20.0	20.300	102	80-120	
Barium	TOTAL	SW6010	10.0	1000.0	1200.0	120	80-120	
Calcium	TOTAL	SW6010	500.0	1000.0	1180.0	118	80-120	
Chromium	TOTAL	SW6010	10.0	500.0	602.0	120	80-120	
Lead	TOTAL	SW6020	1.000	20.0	20.500	102	80-120	
Iron	TOTAL	SW6010	100.0	1000.0	1220.0	122	80-120	
Magnesium	TOTAL	SW6010	500.0	1000.0	1180.0	118	80-120	
Selenium	TOTAL	SW6020	2.000	100.0	98.400	98	80-120	
Manganese	TOTAL	SW6010	10.0	1000.0	1190.0	119	80-120	
Molybdenum	TOTAL	SW6010	20.0	1000.0	1170.0	117	80-120	
Potassium	TOTAL	SW6010	5000.0	10000.0	11200.0	112	80-120	
Sodium	TOTAL	SW6010	5000.0	2000.0	2338.0	117	80-120	
Vanadium	TOTAL	SW6010	10.0	1000.0	1140.0	114	80-120	
Zinc	TOTAL	SW6010	20.0	1000.0	1170.0	117	80-120	
Cadmium	TOTAL	SW6020	1.000	20.0	20.300	102	80-120	
Cobalt	TOTAL	SW6020	1.000	20.0	19.800	99	80-120	
Copper	TOTAL	SW6020	2.000	20.0	19.900	100	80-120	
Mercury	TOTAL	SW7470	0.20	2.00	2.00	100	80-120	
Nickel	TOTAL	SW6020	2.000	20.0	19.900	100	80-120	
Silver	TOTAL	SW6020	10.000	20.0	281.000	1405	80-120	
Thallium	TOTAL	SW6020	1.000	20.0	21.100	106	80-120	
Beryllium	TOTAL	SW6020	1.000	20.0	20.000	100	80-120	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH009
Project:	PRESIDIO	**Date Extracted:**	03/15/2006
Sample Matrix:	Water	**Date Analyzed:**	03/17/2006

Trace Metals

LCS Sample Name:	Lab Control Sample		
Lab Code:	LCSDW-0315	Units:	ug/L (ppb)
Test Notes:		Basis:	NA

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result	Spike % Rec	CAS Acceptance Limits	Result Notes
Aluminum	TOTAL	SW6010	100.0	2000.0	2270.0	114	80-120	
Antimony	TOTAL	SW6020	20.000	20.0	1160.000	5800.0	80-120	
Arsenic	TOTAL	SW6020	2.000	20.0	19.900	100	80-120	
Barium	TOTAL	SW6010	10.0	1000.0	1190.0	119	80-120	
Calcium	TOTAL	SW6010	500.0	1000.0	1160.0	116	80-120	
Chromium	TOTAL	SW6010	10.0	500.0	595.0	119	80-120	
Lead	TOTAL	SW6020	1.000	20.0	20.700	104	80-120	
Iron	TOTAL	SW6010	100.0	1000.0	1220.0	122	80-120	
Magnesium	TOTAL	SW6010	500.0	1000.0	1170.0	117	80-120	
Selenium	TOTAL	SW6020	2.000	100.0	96.400	96	80-120	
Manganese	TOTAL	SW6010	10.0	1000.0	1180.0	118	80-120	
Molybdenum	TOTAL	SW6010	20.0	1000.0	1150.0	115	80-120	
Potassium	TOTAL	SW6010	5000.0	10000.0	11400.0	114	80-120	
Sodium	TOTAL	SW6010	5000.0	2000.0	2336.0	117	80-120	
Vanadium	TOTAL	SW6010	10.0	1000.0	1130.0	113	80-120	
Zinc	TOTAL	SW6010	20.0	1000.0	1160.0	116	80-120	
Cadmium	TOTAL	SW6020	1.000	20.0	20.200	101	80-120	
Cobalt	TOTAL	SW6020	1.000	20.0	19.900	100	80-120	
Copper	TOTAL	SW6020	2.000	20.0	19.800	99	80-120	
Mercury	TOTAL	SW7470	0.20	2.00	1.99	100	80-120	
Nickel	TOTAL	SW6020	2.000	20.0	19.800	99	80-120	
Silver	TOTAL	SW6020	10.000	20.0	279.000	1395	80-120	
Thallium	TOTAL	SW6020	1.000	20.0	21.300	106	80-120	
Beryllium	TOTAL	SW6020	1.000	20.0	20.000	100	80-120	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH009
Project:	PRESIDIO	**Date Extracted:**	04/20/2006
Sample Matrix:	Water	**Date Analyzed:**	04/20/2006

Trace Metals

LCS Sample Name:	Lab Control Sample		
Lab Code:	LCSW-0420	Units:	ug/L (ppb)
Test Notes:		Basis:	NA

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result	Spike % Rec	CAS Acceptance Limits	Result Notes
Mercury	TOTAL	SW7470	0.20	2.00	2.15	108	80-120	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH009
Project:	PRESIDIO	**Date Extracted:**	04/20/2006
Sample Matrix:	Water	**Date Analyzed:**	04/20/2006

Trace Metals

LCS Sample Name:	Lab Control Sample		
Lab Code:	LCSDW-0420	Units:	ug/L (ppb)
Test Notes:		Basis:	NA

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result	Spike % Rec	CAS Acceptance Limits	Result Notes
Mercury	TOTAL	SW7470	0.20	2.00	2.24	112	80-120	

QC Summary

METALS

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TREADWELL & ROLLO **SDG No.:** DH009

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Initial Calibration Source: CPI

Continuing Calibration Source: CPI

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1									
	Aluminum	2000	2000	100	90.0 - 110.0	P	3/17/2006	09:17	031706TJA
	Barium	210	200	105	90.0 - 110.0	P	3/17/2006	09:17	031706TJA
	Calcium	3080	3000	103	90.0 - 110.0	P	3/17/2006	09:17	031706TJA
	Chromium	530	500	106	90.0 - 110.0	P	3/17/2006	09:17	031706TJA
	Iron	3180	3000	106	90.0 - 110.0	P	3/17/2006	09:17	031706TJA
	Magnesium	3050	3000	102	90.0 - 110.0	P	3/17/2006	09:17	031706TJA
	Manganese	208	200	104	90.0 - 110.0	P	3/17/2006	09:17	031706TJA
	Molybdenum	514	500	103	90.0 - 110.0	P	3/17/2006	09:17	031706TJA
	Potassium	12000	12000	100	90.0 - 110.0	P	3/17/2006	09:17	031706TJA
	Sodium	5000	4000	103	90.0 - 110.0	P	3/17/2006	09:17	031706TJA
	Vanadium	205	200	102	90.0 - 110.0	P	3/17/2006	09:17	031706TJA
	Zinc	205	200	102	90.0 - 110.0	P	3/17/2006	09:17	031706TJA
CCV1									
	Aluminum	8400	8000	105	90.0 - 110.0	P	3/17/2006	10:25	031706TJA
	Barium	2130	2000	106	90.0 - 110.0	P	3/17/2006	10:25	031706TJA
	Calcium	42800	40000	107	90.0 - 110.0	P	3/17/2006	10:25	031706TJA
	Chromium	2170	2000	108	90.0 - 110.0	P	3/17/2006	10:25	031706TJA
	Iron	43400	40000	108	90.0 - 110.0	P	3/17/2006	10:25	031706TJA
	Magnesium	42200	40000	106	90.0 - 110.0	P	3/17/2006	10:25	031706TJA
	Manganese	2160	2000	108	90.0 - 110.0	P	3/17/2006	10:25	031706TJA
	Molybdenum	2140	2000	107	90.0 - 110.0	P	3/17/2006	10:25	031706TJA
	Potassium	20900	20000	104	90.0 - 110.0	P	3/17/2006	10:25	031706TJA
	Sodium	41600	40000	104	90.0 - 110.0	P	3/17/2006	10:25	031706TJA
	Vanadium	2140	2000	107	90.0 - 110.0	P	3/17/2006	10:25	031706TJA
	Zinc	2130	2000	106	90.0 - 110.0	P	3/17/2006	10:25	031706TJA

METALS
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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TREADWELL & ROLLO **SDG No.:** DH009

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Initial Calibration Source: CPI

Continuing Calibration Source: CPI

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV2									
	Aluminum	8420	8000	105	90.0 - 110.0	P	3/17/2006	11:46	031706TJA
	Barium	2140	2000	107	90.0 - 110.0	P	3/17/2006	11:46	031706TJA
	Calcium	42100	40000	105	90.0 - 110.0	P	3/17/2006	11:46	031706TJA
	Chromium	2130	2000	106	90.0 - 110.0	P	3/17/2006	11:46	031706TJA
	Iron	43100	40000	108	90.0 - 110.0	P	3/17/2006	11:46	031706TJA
	Magnesium	42200	40000	106	90.0 - 110.0	P	3/17/2006	11:46	031706TJA
	Manganese	2130	2000	106	90.0 - 110.0	P	3/17/2006	11:46	031706TJA
	Molybdenum	2120	2000	106	90.0 - 110.0	P	3/17/2006	11:46	031706TJA
	Potassium	21700	20000	108	90.0 - 110.0	P	3/17/2006	11:46	031706TJA
	Sodium	43300	40000	108	90.0 - 110.0	P	3/17/2006	11:46	031706TJA
	Vanadium	2130	2000	106	90.0 - 110.0	P	3/17/2006	11:46	031706TJA
	Zinc	2090	2000	104	90.0 - 110.0	P	3/17/2006	11:46	031706TJA
CCV3									
	Aluminum	8440	8000	106	90.0 - 110.0	P	3/17/2006	12:54	031706TJA
	Barium	2140	2000	107	90.0 - 110.0	P	3/17/2006	12:54	031706TJA
	Calcium	42500	40000	106	90.0 - 110.0	P	3/17/2006	12:54	031706TJA
	Chromium	2150	2000	108	90.0 - 110.0	P	3/17/2006	12:54	031706TJA
	Iron	43500	40000	109	90.0 - 110.0	P	3/17/2006	12:54	031706TJA
	Magnesium	42600	40000	106	90.0 - 110.0	P	3/17/2006	12:54	031706TJA
	Manganese	2150	2000	108	90.0 - 110.0	P	3/17/2006	12:54	031706TJA
	Molybdenum	2130	2000	106	90.0 - 110.0	P	3/17/2006	12:54	031706TJA
	Potassium	21000	20000	105	90.0 - 110.0	P	3/17/2006	12:54	031706TJA
	Sodium	41700	40000	104	90.0 - 110.0	P	3/17/2006	12:54	031706TJA
	Vanadium	2140	2000	107	90.0 - 110.0	P	3/17/2006	12:54	031706TJA
	Zinc	2130	2000	106	90.0 - 110.0	P	3/17/2006	12:54	031706TJA

METALS
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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TREADWELL & ROLLO **SDG No.:** DH009

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Initial Calibration Source: CPI

Continuing Calibration Source: CPI

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV4									
	Aluminum	8150	8000	102	90.0 - 110.0	P	3/17/2006	13:53	031706TJA
	Barium	2050	2000	102	90.0 - 110.0	P	3/17/2006	13:53	031706TJA
	Calcium	41600	40000	104	90.0 - 110.0	P	3/17/2006	13:53	031706TJA
	Chromium	2100	2000	105	90.0 - 110.0	P	3/17/2006	13:53	031706TJA
	Iron	42400	40000	106	90.0 - 110.0	P	3/17/2006	13:53	031706TJA
	Magnesium	41000	40000	102	90.0 - 110.0	P	3/17/2006	13:53	031706TJA
	Manganese	2110	2000	106	90.0 - 110.0	P	3/17/2006	13:53	031706TJA
	Molybdenum	2030	2000	102	90.0 - 110.0	P	3/17/2006	13:53	031706TJA
	Potassium	20300	20000	102	90.0 - 110.0	P	3/17/2006	13:53	031706TJA
	Sodium	40000	40000	100	90.0 - 110.0	P	3/17/2006	13:53	031706TJA
	Vanadium	2080	2000	104	90.0 - 110.0	P	3/17/2006	13:53	031706TJA
	Zinc	2080	2000	104	90.0 - 110.0	P	3/17/2006	13:53	031706TJA
ICV1									
	Mercury	4.8	5.0	96	80.0 - 120.0	CV	3/12/2006	18:34	V060312
CCV1									
	Mercury	4.1	4.0	102	80.0 - 120.0	CV	3/12/2006	19:01	V060312
CCV2									
	Mercury	4.2	4.0	105	80.0 - 120.0	CV	3/12/2006	19:31	V060312
CCV3									
	Mercury	4.2	4.0	105	80.0 - 120.0	CV	3/12/2006	19:59	V060312
ICV1									
	Mercury	5.1	5.0	102	80.0 - 120.0	CV	3/16/2006	17:36	V060316
CCV1									
	Mercury	4.3	4.0	108	80.0 - 120.0	CV	3/16/2006	18:03	V060316

METALS

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TREADWELL & ROLLO **SDG No.:** DH009

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Initial Calibration Source: IV

Continuing Calibration Source: IV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1									
	Antimony	10.5	10.0	105	90.0 - 110.0	MS	3/31/2006	11:19	033106
	Silver	10.3	10.0	103	90.0 - 110.0	MS	3/31/2006	11:19	033106
CCV1									
	Antimony	21.0	20.0	105	90.0 - 110.0	MS	3/31/2006	12:14	033106
	Silver	20.4	20.0	102	90.0 - 110.0	MS	3/31/2006	12:14	033106
CCV2									
	Antimony	21.0	20.0	105	90.0 - 110.0	MS	3/31/2006	15:38	033106
	Silver	20.6	20.0	103	90.0 - 110.0	MS	3/31/2006	15:38	033106
CCV3									
	Antimony	21.2	20.0	106	90.0 - 110.0	MS	3/31/2006	16:05	033106
	Silver	21.0	20.0	105	90.0 - 110.0	MS	3/31/2006	16:05	033106
CCV4									
	Antimony	21.2	20.0	106	90.0 - 110.0	MS	3/31/2006	16:38	033106
	Silver	21.4	20.0	107	90.0 - 110.0	MS	3/31/2006	16:38	033106
CCV5									
	Antimony	21.2	20.0	106	90.0 - 110.0	MS	3/31/2006	17:12	033106
	Silver	21.4	20.0	107	90.0 - 110.0	MS	3/31/2006	17:12	033106
ICV1									
	Lead	9.5	10.0	95	90.0 - 110.0	MS	4/3/2006	14:23	040306a
	Cobalt	9.7	10.0	97	90.0 - 110.0	MS	4/3/2006	14:23	040306a
	Copper	9.9	10.0	99	90.0 - 110.0	MS	4/3/2006	14:23	040306a
	Nickel	9.8	10.0	98	90.0 - 110.0	MS	4/3/2006	14:23	040306a

METALS

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TREADWELL & ROLLO **SDG No.:** DH009

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Initial Calibration Source: IV

Continuing Calibration Source: IV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1									
	Lead	19.6	20.0	98	90.0 - 110.0	MS	4/3/2006	15:22	040306a
	Cobalt	19.5	20.0	98	90.0 - 110.0	MS	4/3/2006	15:22	040306a
	Copper	19.5	20.0	98	90.0 - 110.0	MS	4/3/2006	15:22	040306a
	Nickel	19.3	20.0	96	90.0 - 110.0	MS	4/3/2006	15:22	040306a
CCV2									
	Lead	20.1	20.0	100	90.0 - 110.0	MS	4/3/2006	15:38	040306a
	Cobalt	19.4	20.0	97	90.0 - 110.0	MS	4/3/2006	15:38	040306a
	Copper	19.1	20.0	96	90.0 - 110.0	MS	4/3/2006	15:38	040306a
	Nickel	19.3	20.0	96	90.0 - 110.0	MS	4/3/2006	15:38	040306a
CCV3									
	Lead	19.9	20.0	100	90.0 - 110.0	MS	4/3/2006	16:12	040306a
	Cobalt	19.2	20.0	96	90.0 - 110.0	MS	4/3/2006	16:12	040306a
	Copper	19.1	20.0	96	90.0 - 110.0	MS	4/3/2006	16:12	040306a
	Nickel	19.1	20.0	96	90.0 - 110.0	MS	4/3/2006	16:12	040306a
CCV4									
	Lead	19.7	20.0	98	90.0 - 110.0	MS	4/3/2006	16:56	040306a
	Cobalt	19.0	20.0	95	90.0 - 110.0	MS	4/3/2006	16:56	040306a
	Copper	19.0	20.0	95	90.0 - 110.0	MS	4/3/2006	16:56	040306a
	Nickel	18.9	20.0	94	90.0 - 110.0	MS	4/3/2006	16:56	040306a
ICV1									
	Arsenic	9.7	10.0	97	90.0 - 110.0	MS	4/13/2006	13:19	041206A
	Selenium	48.3	50.0	97	90.0 - 110.0	MS	4/13/2006	13:19	041206A
	Cadmium	9.5	10.0	95	90.0 - 110.0	MS	4/13/2006	13:19	041206A
	Thallium	9.3	10.0	93	90.0 - 110.0	MS	4/13/2006	13:19	041206A
	Beryllium	9.7	10.0	97	90.0 - 110.0	MS	4/13/2006	13:19	041206A

METALS

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TREADWELL & ROLLO **SDG No.:** DH009

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Initial Calibration Source: IV

Continuing Calibration Source: IV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1									
	Arsenic	19.3	20.0	96	90.0 - 110.0	MS	4/13/2006	14:19	041206A
	Selenium	99.8	100.0	100	90.0 - 110.0	MS	4/13/2006	14:19	041206A
	Cadmium	19.6	20.0	98	90.0 - 110.0	MS	4/13/2006	14:19	041206A
	Thallium	19.6	20.0	98	90.0 - 110.0	MS	4/13/2006	14:19	041206A
	Beryllium	19.2	20.0	96	90.0 - 110.0	MS	4/13/2006	14:19	041206A
CCV2									
	Arsenic	19.5	20.0	98	90.0 - 110.0	MS	4/13/2006	14:56	041206A
	Selenium	100.0	100.0	100	90.0 - 110.0	MS	4/13/2006	14:56	041206A
	Cadmium	19.6	20.0	98	90.0 - 110.0	MS	4/13/2006	14:56	041206A
	Thallium	19.5	20.0	98	90.0 - 110.0	MS	4/13/2006	14:56	041206A
	Beryllium	19.8	20.0	99	90.0 - 110.0	MS	4/13/2006	14:56	041206A
CCV3									
	Arsenic	19.4	20.0	97	90.0 - 110.0	MS	4/13/2006	15:14	041206A
	Selenium	99.0	100.0	99	90.0 - 110.0	MS	4/13/2006	15:14	041206A
	Cadmium	19.2	20.0	96	90.0 - 110.0	MS	4/13/2006	15:14	041206A
	Thallium	19.1	20.0	96	90.0 - 110.0	MS	4/13/2006	15:14	041206A
	Beryllium	20.0	20.0	100	90.0 - 110.0	MS	4/13/2006	15:14	041206A

METALS

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TREADWELL & ROLLO **SDG No.:** DH009

Contract: PRESIDO **Lab Code:** RDD **Case No.:** **SAS No.:**

Initial Calibration Source: CPI

Continuing Calibration Source: CPI

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1									
	Mercury	5.2	5.0	104	80.0 - 120.0	CV	4/20/2006	19:23	V060420
CCV1									
	Mercury	4.3	4.0	108	80.0 - 120.0	CV	4/20/2006	19:49	V060420
CCV2									
	Mercury	4.5	4.0	112	80.0 - 120.0	CV	4/20/2006	21:08	V060420
CCV3									
	Mercury	4.8	4.0	120	80.0 - 120.0	CV	4/20/2006	21:20	V060420

METALS
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CRDL STANDARD FOR AA & ICP

Client: TREADWELL & ROLLO **SDG No.:** DH009

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

AA CRDL Standard Source:

ICP CRDL Standard Source: CPI

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Advisory Limits (%R)	M	Analysis Date	Analysis Time	Run Number
RLS									
	Aluminum	74	60	123	50 - 150	P	3/17/2006	09:26	031706TJA
	Calcium	530	500	106	50 - 150	P	3/17/2006	09:26	031706TJA
	Chromium	12	10	120	50 - 150	P	3/17/2006	09:26	031706TJA
	Iron	110	100	110	50 - 150	P	3/17/2006	09:26	031706TJA
	Magnesium	220	200	110	50 - 150	P	3/17/2006	09:26	031706TJA
	Manganese	5	5	100	50 - 150	P	3/17/2006	09:26	031706TJA
	Molybdenum	17	15	113	50 - 150	P	3/17/2006	09:26	031706TJA
	Potassium	720	1000	72	50 - 150	P	3/17/2006	09:26	031706TJA
	Sodium	530	500	106	50 - 150	P	3/17/2006	09:26	031706TJA
	Vanadium	13	10	130	50 - 150	P	3/17/2006	09:26	031706TJA
	Zinc	22	20	110	50 - 150	P	3/17/2006	09:26	031706TJA
RLS									
	Barium	27	25	108	50 - 150	P	3/17/2006	09:29	031706TJA

METALS
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CRDL STANDARD FOR AA & ICP

Client: TREADWELL & ROLLO **SDG No.:** DH009

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

AA CRDL Standard Source:

ICP CRDL Standard Source: Spex

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Advisory Limits (%R)	M	Analysis Date	Analysis Time	Run Number
RLS									
	Antimony	0.22	0.2	110	50 - 150	MS	3/31/2006	11:31	033106
	Silver	0.50	0.5	100	50 - 150	MS	3/31/2006	11:31	033106
RLS									
	Lead	0.44	0.5	88	50 - 150	MS	4/3/2006	14:37	040306a
	Cobalt	0.47	0.5	94	50 - 150	MS	4/3/2006	14:37	040306a
	Copper	0.49	0.5	98	50 - 150	MS	4/3/2006	14:37	040306a
	Nickel	0.48	0.5	96	50 - 150	MS	4/3/2006	14:37	040306a
RLS									
	Arsenic	0.44	0.5	88	50 - 150	MS	4/13/2006	13:33	041206A
	Selenium	0.95	1.0	95	50 - 150	MS	4/13/2006	13:33	041206A
	Cadmium	0.10	0.1	100	50 - 150	MS	4/13/2006	13:33	041206A
	Thallium	0.09	0.1	90	50 - 150	MS	4/13/2006	13:33	041206A
	Beryllium	0.09	0.1	90	50 - 150	MS	4/13/2006	13:33	041206A

METALS

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TREADWELL & ROLLO **SDG No.:** DH009

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
ICB1										
	Aluminum	100.0	+/-100.0	U	100.0	100.0	P	3/17/2006	09:24	031706TJA
	Barium	10.0	+/-10.0	U	10.0	10.0	P	3/17/2006	09:24	031706TJA
	Calcium	500.0	+/-500.0	U	500.0	500.0	P	3/17/2006	09:24	031706TJA
	Chromium	10.0	+/-10.0	U	10.0	10.0	P	3/17/2006	09:24	031706TJA
	Iron	100.0	+/-100.0	U	100.0	100.0	P	3/17/2006	09:24	031706TJA
	Magnesium	500.0	+/-500.0	U	500.0	500.0	P	3/17/2006	09:24	031706TJA
	Manganese	10.0	+/-10.0	U	10.0	10.0	P	3/17/2006	09:24	031706TJA
	Molybdenum	20.0	+/-20.0	U	20.0	20.0	P	3/17/2006	09:24	031706TJA
	Potassium	5000.0	+/-5000.0	U	5000.0	5000.0	P	3/17/2006	09:24	031706TJA
	Sodium	5000.0	+/-5000.0	U	5000.0	5000.0	P	3/17/2006	09:24	031706TJA
	Vanadium	10.0	+/-10.0	U	10.0	10.0	P	3/17/2006	09:24	031706TJA
	Zinc	20.0	+/-20.0	U	20.0	20.0	P	3/17/2006	09:24	031706TJA
CCB1										
	Aluminum	100.0	+/-100.0	U	100.0	100.0	P	3/17/2006	10:36	031706TJA
	Barium	10.0	+/-10.0	U	10.0	10.0	P	3/17/2006	10:36	031706TJA
	Calcium	500.0	+/-500.0	U	500.0	500.0	P	3/17/2006	10:36	031706TJA
	Chromium	10.0	+/-10.0	U	10.0	10.0	P	3/17/2006	10:36	031706TJA
	Iron	100.0	+/-100.0	U	100.0	100.0	P	3/17/2006	10:36	031706TJA
	Magnesium	500.0	+/-500.0	U	500.0	500.0	P	3/17/2006	10:36	031706TJA
	Manganese	10.0	+/-10.0	U	10.0	10.0	P	3/17/2006	10:36	031706TJA
	Molybdenum	20.0	+/-20.0	U	20.0	20.0	P	3/17/2006	10:36	031706TJA
	Potassium	5000.0	+/-5000.0	U	5000.0	5000.0	P	3/17/2006	10:36	031706TJA
	Sodium	5000.0	+/-5000.0	U	5000.0	5000.0	P	3/17/2006	10:36	031706TJA
	Vanadium	10.0	+/-10.0	U	10.0	10.0	P	3/17/2006	10:36	031706TJA
	Zinc	20.0	+/-20.0	U	20.0	20.0	P	3/17/2006	10:36	031706TJA

METALS
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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TREADWELL & ROLLO **SDG No.:** DH009

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
CCB2										
	Aluminum	100.0	+/-100.0	U	100.0	100.0	P	3/17/2006	12:02	031706TJA
	Barium	10.0	+/-10.0	U	10.0	10.0	P	3/17/2006	12:02	031706TJA
	Calcium	500.0	+/-500.0	U	500.0	500.0	P	3/17/2006	12:02	031706TJA
	Chromium	10.0	+/-10.0	U	10.0	10.0	P	3/17/2006	12:02	031706TJA
	Iron	100.0	+/-100.0	U	100.0	100.0	P	3/17/2006	12:02	031706TJA
	Magnesium	500.0	+/-500.0	U	500.0	500.0	P	3/17/2006	12:02	031706TJA
	Manganese	10.0	+/-10.0	U	10.0	10.0	P	3/17/2006	12:02	031706TJA
	Molybdenum	20.0	+/-20.0	U	20.0	20.0	P	3/17/2006	12:02	031706TJA
	Potassium	5000.0	+/-5000.0	U	5000.0	5000.0	P	3/17/2006	12:02	031706TJA
	Sodium	5000.0	+/-5000.0	U	5000.0	5000.0	P	3/17/2006	12:02	031706TJA
	Vanadium	10.0	+/-10.0	U	10.0	10.0	P	3/17/2006	12:02	031706TJA
	Zinc	20.0	+/-20.0	U	20.0	20.0	P	3/17/2006	12:02	031706TJA
CCB3										
	Aluminum	100.0	+/-100.0	U	100.0	100.0	P	3/17/2006	13:06	031706TJA
	Barium	10.0	+/-10.0	U	10.0	10.0	P	3/17/2006	13:06	031706TJA
	Calcium	500.0	+/-500.0	U	500.0	500.0	P	3/17/2006	13:06	031706TJA
	Chromium	10.0	+/-10.0	U	10.0	10.0	P	3/17/2006	13:06	031706TJA
	Iron	100.0	+/-100.0	U	100.0	100.0	P	3/17/2006	13:06	031706TJA
	Magnesium	500.0	+/-500.0	U	500.0	500.0	P	3/17/2006	13:06	031706TJA
	Manganese	10.0	+/-10.0	U	10.0	10.0	P	3/17/2006	13:06	031706TJA
	Molybdenum	20.0	+/-20.0	U	20.0	20.0	P	3/17/2006	13:06	031706TJA
	Potassium	5000.0	+/-5000.0	U	5000.0	5000.0	P	3/17/2006	13:06	031706TJA
	Sodium	5000.0	+/-5000.0	U	5000.0	5000.0	P	3/17/2006	13:06	031706TJA
	Vanadium	10.0	+/-10.0	U	10.0	10.0	P	3/17/2006	13:06	031706TJA
	Zinc	20.0	+/-20.0	U	20.0	20.0	P	3/17/2006	13:06	031706TJA

METALS
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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TREADWELL & ROLLO **SDG No.:** DH009

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
CCB4										
	Aluminum	100.0	+/-100.0	U	100.0	100.0	P	3/17/2006	14:05	031706TJA
	Barium	10.0	+/-10.0	U	10.0	10.0	P	3/17/2006	14:05	031706TJA
	Calcium	500.0	+/-500.0	U	500.0	500.0	P	3/17/2006	14:05	031706TJA
	Chromium	10.0	+/-10.0	U	10.0	10.0	P	3/17/2006	14:05	031706TJA
	Iron	100.0	+/-100.0	U	100.0	100.0	P	3/17/2006	14:05	031706TJA
	Magnesium	500.0	+/-500.0	U	500.0	500.0	P	3/17/2006	14:05	031706TJA
	Manganese	10.0	+/-10.0	U	10.0	10.0	P	3/17/2006	14:05	031706TJA
	Molybdenum	20.0	+/-20.0	U	20.0	20.0	P	3/17/2006	14:05	031706TJA
	Potassium	5000.0	+/-5000.0	U	5000.0	5000.0	P	3/17/2006	14:05	031706TJA
	Sodium	5000.0	+/-5000.0	U	5000.0	5000.0	P	3/17/2006	14:05	031706TJA
	Vanadium	10.0	+/-10.0	U	10.0	10.0	P	3/17/2006	14:05	031706TJA
	Zinc	20.0	+/-20.0	U	20.0	20.0	P	3/17/2006	14:05	031706TJA
ICB1										
	Antimony	2.00	+/-2.00	U	2.00	2.00	MS	3/31/2006	11:28	033106
	Silver	1.00	+/-1.00	U	1.00	1.00	MS	3/31/2006	11:28	033106
CCB1										
	Antimony	2.00	+/-2.00	U	2.00	2.00	MS	3/31/2006	12:22	033106
	Silver	1.00	+/-1.00	U	1.00	1.00	MS	3/31/2006	12:22	033106
CCB2										
	Antimony	2.00	+/-2.00	U	2.00	2.00	MS	3/31/2006	15:46	033106
	Silver	1.00	+/-1.00	U	1.00	1.00	MS	3/31/2006	15:46	033106
CCB3										
	Antimony	2.00	+/-2.00	U	2.00	2.00	MS	3/31/2006	16:12	033106
	Silver	1.00	+/-1.00	U	1.00	1.00	MS	3/31/2006	16:12	033106
CCB4										
	Antimony	2.00	+/-2.00	U	2.00	2.00	MS	3/31/2006	16:46	033106
	Silver	1.00	+/-1.00	U	1.00	1.00	MS	3/31/2006	16:46	033106

METALS
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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TREADWELL & ROLLO **SDG No.:** DH009

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
CCB5										
	Antimony	2.00	+/-2.00	U	2.00	2.00	MS	3/31/2006	17:20	033106
	Silver	1.00	+/-1.00	U	1.00	1.00	MS	3/31/2006	17:20	033106
ICB1										
	Lead	1.00	+/-1.00	U	1.00	1.00	MS	4/3/2006	14:32	040306a
	Cobalt	1.00	+/-1.00	U	1.00	1.00	MS	4/3/2006	14:32	040306a
	Copper	2.00	+/-2.00	U	2.00	2.00	MS	4/3/2006	14:32	040306a
	Nickel	2.00	+/-2.00	U	2.00	2.00	MS	4/3/2006	14:32	040306a
CCB1										
	Lead	1.00	+/-1.00	U	1.00	1.00	MS	4/3/2006	15:30	040306a
	Cobalt	1.00	+/-1.00	U	1.00	1.00	MS	4/3/2006	15:30	040306a
	Copper	2.00	+/-2.00	U	2.00	2.00	MS	4/3/2006	15:30	040306a
	Nickel	2.00	+/-2.00	U	2.00	2.00	MS	4/3/2006	15:30	040306a
CCB2										
	Lead	1.00	+/-1.00	U	1.00	1.00	MS	4/3/2006	15:45	040306a
	Cobalt	1.00	+/-1.00	U	1.00	1.00	MS	4/3/2006	15:45	040306a
	Copper	2.00	+/-2.00	U	2.00	2.00	MS	4/3/2006	15:45	040306a
	Nickel	2.00	+/-2.00	U	2.00	2.00	MS	4/3/2006	15:45	040306a
CCB3										
	Lead	1.00	+/-1.00	U	1.00	1.00	MS	4/3/2006	16:19	040306a
	Cobalt	1.00	+/-1.00	U	1.00	1.00	MS	4/3/2006	16:19	040306a
	Copper	2.00	+/-2.00	U	2.00	2.00	MS	4/3/2006	16:19	040306a
	Nickel	2.00	+/-2.00	U	2.00	2.00	MS	4/3/2006	16:19	040306a
CCB4										
	Lead	1.00	+/-1.00	U	1.00	1.00	MS	4/3/2006	17:04	040306a
	Cobalt	1.00	+/-1.00	U	1.00	1.00	MS	4/3/2006	17:04	040306a
	Copper	2.00	+/-2.00	U	2.00	2.00	MS	4/3/2006	17:04	040306a
	Nickel	2.00	+/-2.00	U	2.00	2.00	MS	4/3/2006	17:04	040306a

METALS
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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TREADWELL & ROLLO **SDG No.:** DH009

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
ICB1										
	Arsenic	2.00	+/-2.00	U	2.00	2.00	MS	4/13/2006	13:28	041206A
	Selenium	2.00	+/-2.00	U	2.00	2.00	MS	4/13/2006	13:28	041206A
	Cadmium	1.00	+/-1.00	U	1.00	1.00	MS	4/13/2006	13:28	041206A
	Thallium	1.00	+/-1.00	U	1.00	1.00	MS	4/13/2006	13:28	041206A
	Beryllium	1.00	+/-1.00	U	1.00	1.00	MS	4/13/2006	13:28	041206A
CCB1										
	Arsenic	2.00	+/-2.00	U	2.00	2.00	MS	4/13/2006	14:27	041206A
	Selenium	2.00	+/-2.00	U	2.00	2.00	MS	4/13/2006	14:27	041206A
	Cadmium	1.00	+/-1.00	U	1.00	1.00	MS	4/13/2006	14:27	041206A
	Thallium	1.00	+/-1.00	U	1.00	1.00	MS	4/13/2006	14:27	041206A
	Beryllium	1.00	+/-1.00	U	1.00	1.00	MS	4/13/2006	14:27	041206A
CCB2										
	Arsenic	2.00	+/-2.00	U	2.00	2.00	MS	4/13/2006	15:03	041206A
	Selenium	2.00	+/-2.00	U	2.00	2.00	MS	4/13/2006	15:03	041206A
	Cadmium	1.00	+/-1.00	U	1.00	1.00	MS	4/13/2006	15:03	041206A
	Thallium	1.00	+/-1.00	U	1.00	1.00	MS	4/13/2006	15:03	041206A
	Beryllium	1.00	+/-1.00	U	1.00	1.00	MS	4/13/2006	15:03	041206A
CCB3										
	Arsenic	2.00	+/-2.00	U	2.00	2.00	MS	4/13/2006	15:22	041206A
	Selenium	2.00	+/-2.00	U	2.00	2.00	MS	4/13/2006	15:22	041206A
	Cadmium	1.00	+/-1.00	U	1.00	1.00	MS	4/13/2006	15:22	041206A
	Thallium	1.00	+/-1.00	U	1.00	1.00	MS	4/13/2006	15:22	041206A
	Beryllium	1.00	+/-1.00	U	1.00	1.00	MS	4/13/2006	15:22	041206A
ICB1										
	Mercury	0.20	+/-0.20	U	0.20	0.20	CV	3/12/2006	18:36	V060312
CCB1										
	Mercury	0.20	+/-0.20	U	0.20	0.20	CV	3/12/2006	19:03	V060312

METALS

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TREADWELL & ROLLO **SDG No.:** DH009

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
CCB2	Mercury	0.20	+/-0.20	U	0.20	0.20	CV	3/12/2006	19:33	V060312
CCB3	Mercury	0.20	+/-0.20	U	0.20	0.20	CV	3/12/2006	20:01	V060312
ICB1	Mercury	0.20	+/-0.20	U	0.20	0.20	CV	3/16/2006	17:39	V060316
CCB1	Mercury	0.20	+/-0.20	U	0.20	0.20	CV	3/16/2006	18:06	V060316

METALS

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TREADWELL & ROLLO **SDG No.:** DH009

Contract: PRESIDO **Lab Code:** RDD **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
ICB1	Mercury	0.20	+/-0.20	U	0.20	0.20	CV	4/20/2006	19:25	V060420
CCB1	Mercury	0.20	+/-0.20	U	0.20	0.20	CV	4/20/2006	19:51	V060420
CCB2	Mercury	0.20	+/-0.20	U	0.20	0.20	CV	4/20/2006	21:10	V060420
CCB3	Mercury	0.20	+/-0.20	U	0.20	0.20	CV	4/20/2006	21:22	V060420

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INTERFERENCE CHECK SAMPLE

Client: TREADWELL & ROLLO **SDG No.:** DH009

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

ICS Source: CPI **Instrument ID:** TJA61

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window	Analysis Date	Analysis Time	Run Number
ICS-A1								
	Aluminum	511010	500000	102	80 - 120%	3/17/2006	09:31	031706TJA
	Barium	1				3/17/2006	09:31	031706TJA
	Calcium	480354	500000	96	80 - 120%	3/17/2006	09:31	031706TJA
	Chromium	13				3/17/2006	09:31	031706TJA
	Iron	187832	200000	94	80 - 120%	3/17/2006	09:31	031706TJA
	Magnesium	506613	500000	101	80 - 120%	3/17/2006	09:31	031706TJA
	Manganese	5				3/17/2006	09:31	031706TJA
	Molybdenum	44				3/17/2006	09:31	031706TJA
	Potassium	-633				3/17/2006	09:31	031706TJA
	Sodium	13				3/17/2006	09:31	031706TJA
	Vanadium	32				3/17/2006	09:31	031706TJA
	Zinc	3				3/17/2006	09:31	031706TJA
ICS-AB1								
	Aluminum	529040	502000	105	80 - 120%	3/17/2006	09:34	031706TJA
	Barium	1011	1000	101	80 - 120%	3/17/2006	09:34	031706TJA
	Calcium	495816	500200	99	80 - 120%	3/17/2006	09:34	031706TJA
	Chromium	984	1000	98	80 - 120%	3/17/2006	09:34	031706TJA
	Iron	194299	200200	97	80 - 120%	3/17/2006	09:34	031706TJA
	Magnesium	521495	500200	104	80 - 120%	3/17/2006	09:34	031706TJA
	Manganese	991	1000	99	80 - 120%	3/17/2006	09:34	031706TJA
	Molybdenum	1954	2000	98	80 - 120%	3/17/2006	09:34	031706TJA
	Potassium	-615				3/17/2006	09:34	031706TJA
	Sodium	2277	2000	114	80 - 120%	3/17/2006	09:34	031706TJA
	Vanadium	999	1000	100	80 - 120%	3/17/2006	09:34	031706TJA
	Zinc	2041	2000	102	80 - 120%	3/17/2006	09:34	031706TJA

METALS

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INTERFERENCE CHECK SAMPLE

Client: TREADWELL & ROLLO **SDG No.:** DH009

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

ICS Source: IV **Instrument ID:** ELAN 9000

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window	Analysis Date	Analysis Time	Run Number
ICSA								
	Antimony	0.1				3/31/2006	11:37	033106
	Silver	0.0				3/31/2006	11:37	033106
ICSAB								
	Antimony	21.4	20.0	107	80 - 120%	3/31/2006	11:42	033106
	Silver	19.9	20.0	100	80 - 120%	3/31/2006	11:42	033106
ICSA								
	Lead	0.1				4/3/2006	14:43	040306a
	Cobalt	0.0				4/3/2006	14:43	040306a
	Copper	0.5				4/3/2006	14:43	040306a
	Nickel	0.5				4/3/2006	14:43	040306a
ICSAB								
	Lead	19.7	20.0	98	80 - 120%	4/3/2006	14:49	040306a
	Cobalt	20.2	20.0	101	80 - 120%	4/3/2006	14:49	040306a
	Copper	19.9	20.0	100	80 - 120%	4/3/2006	14:49	040306a
	Nickel	20.5	20.0	102	80 - 120%	4/3/2006	14:49	040306a
ICSA								
	Arsenic	0.0				4/13/2006	13:40	041206A
	Selenium	0.2				4/13/2006	13:40	041206A
	Cadmium	0.0				4/13/2006	13:40	041206A
	Thallium	0.0				4/13/2006	13:40	041206A
	Beryllium	0.0				4/13/2006	13:40	041206A
ICSAB								
	Arsenic	20.8	20.0	104	80 - 120%	4/13/2006	13:46	041206A
	Selenium	106.0	100.0	106	80 - 120%	4/13/2006	13:46	041206A
	Cadmium	20.7	20.0	104	80 - 120%	4/13/2006	13:46	041206A
	Thallium	20.3	20.0	102	80 - 120%	4/13/2006	13:46	041206A
	Beryllium	21.1	20.0	106	80 - 120%	4/13/2006	13:46	041206A

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DUPLICATE SAMPLE SUMMARY

Client: TREADWELL & ROLLO **Level:** LOW **SDG No.:** DH009

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Matrix: WATER **Sample ID:** LCSW **Client ID:** LCSWD

Percent Solids for Sample: 0.00 **Duplicate ID:** LCSWD **Percent Solids for Duplicate:** 0.00

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L		2300.0		2270.0		1		P
Antimony	ug/L		1170.000		1160.0		1		MS
Arsenic	ug/L		20.300		19.900		2		MS
Barium	ug/L		1200.0		1190.0		1		P
Calcium	ug/L		1180.0		1160.0		2		P
Chromium	ug/L		602.0		595.0		1		P
Lead	ug/L		20.500		20.700		1		MS
Iron	ug/L		1220.0		1220.0		0		P
Magnesium	ug/L		1180.0		1170.0		1		P
Selenium	ug/L		98.400		96.400		2		MS
Manganese	ug/L		1190.0		1180.0		1		P
Molybdenum	ug/L		1170.0		1150.0		2		P
Potassium	ug/L		11200.0		11400.0		2		P
Sodium	ug/L		2340.0		2340.0		0		P
Vanadium	ug/L		1140.0		1130.0		1		P
Zinc	ug/L		1170.0		1160.0		1		P
Cadmium	ug/L		20.300		20.200		0		MS
Cobalt	ug/L		19.800		19.900		1		MS
Copper	ug/L		19.900		19.800		1		MS
Mercury	ug/L		2.00		1.99		1		CV
Mercury	ug/L		2.00		1.99		1		CV
Nickel	ug/L		19.900		19.800		1		MS
Silver	ug/L		281.000		279.0		1		MS
Thallium	ug/L		21.100		21.300		1		MS
Beryllium	ug/L		20.000		20.000		0		MS

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SAMPLE PREPARATION SUMMARY

Client: TREADWELL & ROLLO

SDG No.: DH009

Contract: PRESIDIO **Lab Code:** RDD

Method: P

Case No.: **SAS No.:**

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	ICPW1						
PBW	PBW	MB	WATER	3/15/06	50.0	50.0	
LCSW	LCSW	LCS	WATER	3/15/06	50.0	50.0	
LCSWD	LCSWD	LCSD	WATER	3/15/06	50.0	50.0	
DH009001	LF01GW01CL	SAM	WATER	3/15/06	50.0	50.0	
DH009002	DAESP03CL	SAM	WATER	3/15/06	50.0	50.0	
DH009003	BB3SW104CL	SAM	WATER	3/15/06	50.0	50.0	
DH009004	231GW21CL	SAM	WATER	3/15/06	50.0	50.0	

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SAMPLE PREPARATION SUMMARY

Client: TREADWELL & ROLLO
SDG No.: DH009
Contract: PRESIDIO **Lab Code:** RDD
Method: MS
Case No.: **SAS No.:**

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	ICPMSW1						
PBW	PBW	MB	WATER	3/15/06	50.0	50.0	
LCSW	LCSW	LCS	WATER	3/15/06	50.0	50.0	
LCSWD	LCSWD	LCSD	WATER	3/15/06	50.0	50.0	
DH009002	DAESP03CL	SAM	WATER	3/15/06	50.0	50.0	
DH009003	BB3SW104CL	SAM	WATER	3/15/06	50.0	50.0	
DH009001	LF01GW01CL	SAM	WATER	3/15/06	50.0	50.0	
DH009004	231GW21CL	SAM	WATER	3/15/06	50.0	50.0	

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SAMPLE PREPARATION SUMMARY

Client: TREADWELL & ROLLO

SDG No.: DH009

Contract: PRESIDIO **Lab Code:** RDD

Method: CV

Case No.: _____ **SAS No.:** _____

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	CVAAW2						
PBW	PBW	MB	WATER	3/15/06	20.0	20.0	
LCSW	LCSW	LCS	WATER	3/15/06	20.0	20.0	
LCSWD	LCSWD	LCSD	WATER	3/15/06	20.0	20.0	
DH009002	DAESP03CL	SAM	WATER	3/15/06	20.0	20.0	

METALS
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SAMPLE PREPARATION SUMMARY

Client: TREADWELL & ROLLO
SDG No.: DH009
Contract: PRESIDO **Lab Code:** RDD
Method: CV
Case No.: _____ **SAS No.:** _____

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	CVAAW3						
PBW	PBW	MB	WATER	4/20/06	20.0	20.0	
LCSW	LCSW	LCS	WATER	4/20/06	20.0	20.0	
LCSWD	LCSWD	LCS	WATER	4/20/06	20.0	20.0	
DH009-002	DAESP03CL	SAM	WATER	4/20/06	20.0	20.0	

METALS
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ANALYSIS RUN LOG

Client: TREADWELL & ROLLO Contract: PRESIDIO

Lab Code: RDD Case No.: _____ SAS No.: _____ SDG No.: DH009

Instrument ID Number: TJA61 Method: P Run Number: 031706TJA

Start Date: 3/17/2006 End Date: 3/17/2006

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN	
CB	1.00	0903		X			X			X	X			X		X	X			X			X		X	X		*
STD	1.00	0906		X			X			X	X			X		X	X			X			X		X	X		*
ICV1	1.00	0917		X			X			X	X			X		X	X			X			X		X	X		*
ICB1	1.00	0924		X			X			X	X			X		X	X			X			X		X	X		*
RLS	1.00	0926		X						X	X			X		X	X			X			X		X	X		*
RLS	1.00	0929					X																					
ICS-A1	1.00	0931		X			X			X	X			X		X	X			X			X		X	X		*
ICS-AB1	1.00	0934		X			X			X	X			X		X	X			X			X		X	X		*
CCV1	1.00	1025		X			X			X	X			X		X	X			X			X		X	X		*
CCB1	1.00	1036		X			X			X	X			X		X	X			X			X		X	X		*
CCV2	1.00	1146		X			X			X	X			X		X	X			X			X		X	X		*
CCB2	1.00	1202		X			X			X	X			X		X	X			X			X		X	X		*
PBW	1.00	1218		X			X			X	X			X		X	X			X			X		X	X		*
LCSW	1.00	1222		X			X			X	X			X		X	X			X			X		X	X		*
LCSWD	1.00	1226		X			X			X	X			X		X	X			X			X		X	X		*
LF01GW01CL	1.00	1235		X			X			X	X			X		X	X			X			X		X	X		
CCV3	1.00	1254		X			X			X	X			X		X	X			X			X		X	X		*
CCB3	1.00	1306		X			X			X	X			X		X	X			X			X		X	X		*
DAESP03CL	1.00	1314		X			X			X	X			X		X	X			X			X		X	X		*
BB3SW104CL	1.00	1318		X			X			X	X			X		X	X			X			X		X	X		
231GW21CL	1.00	1322		X						X	X			X		X	X			X			X			X		
DAESP03CL	1.00	1326		X			X			X	X			X		X	X			X			X		X	X		
BB3SW104CL	1.00	1330		X			X			X	X			X		X	X			X			X		X	X		
CCV4	1.00	1353		X			X			X	X			X		X	X			X			X		X	X		*
CCB4	1.00	1405		X			X			X	X			X		X	X			X			X		X	X		*

METALS

ANALYSIS RUN LOG

Client: TREADWELL & ROLLO Contract: PRESIDIO

Lab Code: RDD Case No.: SAS No.: SDG No.: DH009

Instrument ID Number: TJA61 Method: P Run Number: DH009

Start Date: 3/17/2006 End Date: 3/17/2006

EPA Sample No.	D/F	Time	% R	Analytes																							
				B	AU	LI	MO	OS	PD	P	PT	SI	S	SN	SR	TI	U	W	IN								
CB	1.00	09:03					X																				
STD	1.00	09:06					X																				
ICV1	1.00	09:17					X																				
ICB1	1.00	09:24					X																				
RLS	1.00	09:26					X																				
RLS	1.00	09:29																									
ICS-A1	1.00	09:31					X																				
ICS-AB1	1.00	09:34					X																				
CCV1	1.00	10:25					X																				
CCB1	1.00	10:36					X																				
CCV2	1.00	11:46					X																				
CCB2	1.00	12:02					X																				
PBW	1.00	12:18					X																				
LCSW	1.00	12:22					X																				
LCSWD	1.00	12:26					X																				
LF01GW01CL	1.00	12:35																									
CCV3	1.00	12:54					X																				
CCB3	1.00	13:06					X																				
DAESP03CL	1.00	13:14					X																				
BB3SW104CL	1.00	13:18																									
231GW21CL	1.00	13:22																									
DAESP03CL	1.00	13:26																									
BB3SW104CL	1.00	13:30																									
CCV4	1.00	13:53					X																				
CCB4	1.00	14:05					X																				

METALS
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ANALYSIS RUN LOG

Client: TREADWELL & ROLLO Contract: PRESIDIO

Lab Code: RDD Case No.: _____ SAS No.: _____ SDG No.: DH009

Instrument ID Number: ELAN 9000 Method: MS Run Number: 033106

Start Date: 3/31/2006 End Date: 3/31/2006

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
Blank	1.00	1111			X																	X					
Standard 1	1.00	1113			X																	X					
ICV1	1.00	1119			X																	X					
ICB1	1.00	1128			X																	X					
RLS	1.00	1131			X																	X					
ICSA	1.00	1137			X																	X					
ICSAB	1.00	1142			X																	X					
CCV1	1.00	1214			X																	X					
CCB1	1.00	1222			X																	X					
CCV2	1.00	1538			X																	X					
CCB2	1.00	1546			X																	X					
PBW	1.00	1558			X																	X					
LCSW	10.00	1600			X																	X					
LCSWD	10.00	1602			X																	X					
CCV3	1.00	1605			X																	X					
CCB3	1.00	1612			X																	X					
LF01GW01CL	1.00	1614			X																	X					
CCV4	1.00	1638			X																	X					
CCB4	1.00	1646			X																	X					
DAESP03CL	1.00	1655			X																	X					
BB3SW104CL	1.00	1657			X																	X					
DAESP03CL	1.00	1701			X																	X					
BB3SW104CL	1.00	1703			X																	X					
CCV5	1.00	1712			X																	X					
CCB5	1.00	1720			X																	X					

METALS
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ANALYSIS RUN LOG

Client: TREADWELL & ROLLO Contract: PRESIDIO

Lab Code: RDD Case No.: SAS No.: SDG No.: DH009

Instrument ID Number: ELAN 9000 Method: MS Run Number: 040306a

Start Date: 4/3/2006 End Date: 4/3/2006

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
Blank	1.00	1414										X	X		X				X								
Standard 1	1.00	1418										X	X		X				X								
ICV1	1.00	1423										X	X		X				X								
ICB1	1.00	1432										X	X		X				X								
RLS	1.00	1437										X	X		X				X								
ICSA	1.00	1443										X	X		X				X								
ICSAB	1.00	1449										X	X		X				X								
CCV1	1.00	1522										X	X		X				X								
CCB1	1.00	1530										X	X		X				X								
CCV2	1.00	1538										X	X		X				X								
CCB2	1.00	1545										X	X		X				X								
PBW	1.00	1600										X	X		X				X								
LCSW	1.00	1603										X	X		X				X								
LCSWD	1.00	1606										X	X		X				X								
DAESP03CL	1.00	1609										X	X		X				X								
CCV3	1.00	1612										X	X		X				X								
CCB3	1.00	1619										X	X		X				X								
BB3SW104CL	1.00	1623										X	X		X				X								
LF01GW01CL	1.00	1626										X	X		X				X								
DAESP03CL	1.00	1629										X	X		X				X								
BB3SW104CL	1.00	1631										X	X		X				X								
231GW21CL	1.00	1634											X		X				X								
CCV4	1.00	1656										X	X		X				X								
CCB4	1.00	1704										X	X		X				X								

METALS
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ANALYSIS RUN LOG

Client: TREADWELL & ROLLO Contract: PRESIDIO

Lab Code: RDD Case No.: _____ SAS No.: _____ SDG No.: DH009

Instrument ID Number: ELAN 9000 Method: MS Run Number: 041206A

Start Date: 4/13/2006 End Date: 4/13/2006

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
Blank	1.00	1310				X		X	X												X			X			
Standard 1	1.00	1314				X		X	X												X			X			
ICV1	1.00	1319				X		X	X												X			X			
ICB1	1.00	1328				X		X	X												X			X			
RLS	1.00	1333				X		X	X												X			X			
ICSA	1.00	1340				X		X	X												X			X			
ICSAB	1.00	1346				X		X	X												X			X			
CCV1	1.00	1419				X		X	X												X			X			
CCB1	1.00	1427				X		X	X												X			X			
PBW	1.00	1434				X		X	X												X			X			
LCSW	1.00	1437				X		X	X												X			X			
LCSWD	1.00	1440				X		X	X												X			X			
DAESP03CL	1.00	1443				X		X	X												X			X			
BB3SW104CL	1.00	1446				X		X	X												X			X			
LF01GW01CL	1.00	1449				X		X	X												X			X			
DAESP03CL	1.00	1452				X		X	X												X			X			
CCV2	1.00	1456				X		X	X												X			X			
CCB2	1.00	1503				X		X	X												X			X			
BB3SW104CL	1.00	1507				X		X	X												X			X			
231GW21CL	1.00	1510				X			X																		
CCV3	1.00	1514				X		X	X												X			X			
CCB3	1.00	1522				X		X	X												X			X			

METALS
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ANALYSIS RUN LOG

Client: TREADWELL & ROLLO Contract: PRESIDIO

Lab Code: RDD Case No.: _____ SAS No.: _____ SDG No.: DH009

Instrument ID Number: PE FIMS Method: CV Run Number: V060316

Start Date: 3/16/2006 End Date: 3/16/2006

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CALIB BLANK	1.00	1721																X									
STANDARD 1	1.00	1723																X									
STANDARD 2	1.00	1725																X									
STANDARD 3	1.00	1728																X									
STANDARD 4	1.00	1730																X									
STANDARD 5	1.00	1733																X									
ICV1	1.00	1736																X									
ICB1	1.00	1739																X									
PBW	1.00	1741																X									
LCSW	1.00	1743																X									
LCSWD	1.00	1746																X									
DAESP03CL	1.00	1751																X									
CCV1	1.00	1803																X									
CCB1	1.00	1806																X									

METALS
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ANALYSIS RUN LOG

Client: TREADWELL & ROLLO Contract: PRESIDO

Lab Code: RDD Case No.: _____ SAS No.: _____ SDG No.: DH009

Instrument ID Number: PE FIMS Method: CV Run Number: V060420

Start Date: 4/20/2006 End Date: 4/20/2006

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CALIB BLANK	1.00	1903																X									
STANDARD 1	1.00	1906																X									
STANDARD 2	1.00	1908																X									
STANDARD 3	1.00	1910																X									
STANDARD 4	1.00	1913																X									
STANDARD 5	1.00	1915																X									
ICV1	1.00	1923																X									
ICB1	1.00	1925																X									
PBW	1.00	1927																X									
LCSW	1.00	1930																X									
LCSWD	1.00	1932																X									
CCV1	1.00	1949																X									
CCB1	1.00	1951																X									
CCV1	1.00	2108																X									
CCB1	1.00	2110																X									
DAESP03CL	1.00	2115																X									
CCV2	1.00	2120																X									
CCB2	1.00	2122																X									

Verification of Instrument Parameters

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METHOD DETECTION LIMITS

Client: TREADWELL & ROLLO **SDG No.:** DH009

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Analyte	Mass	MDL ug/L	PQL ug/L
ELAN 9000			**Date:** 11/21/2005
Antimony	121	2.00	2.00
Arsenic	75	2.00	2.00
Lead	208	1.00	1.00
Selenium	82	2.00	2.00
Cadmium	111	1.00	1.00
Cobalt	59	1.00	1.00
Copper	63	2.00	2.00
Nickel	60	2.00	2.00
Silver	107	1.00	1.00
Thallium	205	1.00	1.00
Beryllium	9	1.00	1.00
PE FIMS			**Date:** 11/5/2005
Mercury	253.70	0.20	0.20
TJA61			**Date:** 8/2/2005
Aluminum	308.22	100	100
Barium	493.41	10	10
Calcium	317.93	500	500
Chromium	267.72	10	10
Iron	271.44	100	100
Magnesium	279.08	500	500
Manganese	257.61	10	10
Molybdenum	202.03	20	20
Potassium	766.49	5000	5000
Sodium	330.23	5000	5000
Vanadium	292.40	10	10
Zinc	213.86	20	20

METALS
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ICP INTERELEMENT CORRECTION FACTORS

Client: TREADWELL & ROLLO SDG No.: DH009

Contract: PRESIDIO Lab Code: RDD Case No.: _____ SAS No.: _____

Instrument ID: TJA61 Date: 1/26/2006

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For:				
		Al	Ca	Fe	Mg	Ag
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0005100	0.0000000	-0.0001300	0.0000700	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.68	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	-0.0001600	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0005700	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	-0.0000400	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000200	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	-0.0020800	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	-0.0002300	0.0000100	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000400	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.0000000	-0.0009700	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	-0.0001100	0.0000000	0.0000000
Sodium	330.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0012000	0.0000000	0.0002700	-0.0000500	0.0000000
Tin	189.98	0.0000000	0.0000000	0.0000000	0.0001700	0.0000000
Vanadium	292.40	-0.0000300	0.0000000	-0.0004000	0.0000000	0.0000000
Zinc	213.85	0.0000000	0.0000000	-0.0000400	0.0000300	0.0000000

METALS
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ICP INTERELEMENT CORRECTION FACTORS

Client: TREADWELL & ROLLO SDG No.: DH009

Contract: PRESIDIO Lab Code: RDD Case No.: SAS No.:

Instrument ID: TJA61 Date: 1/26/2006

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	B	Ba	Be	Cd
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0004600	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.68	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0326900	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000800	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0001300	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0002900	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.0000000	0.0000000	-0.0014400	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0008800	0.0000000
Tin	189.98	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METALS
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ICP INTERELEMENT CORRECTION FACTORS

Client: TREADWELL & ROLLO SDG No.: DH009

Contract: PRESIDIO Lab Code: RDD Case No.: _____ SAS No.: _____

Instrument ID: TJA61 Date: 1/26/2006

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For:				
		Co	Cr	Cu	Mn	Mo
Aluminum	308.22	-0.0009200	0.0000000	0.0000000	0.0014700	0.0130000
Antimony	206.84	-0.0011900	0.0139400	0.0000000	0.0000000	0.0104700
Arsenic	189.04	0.0000000	0.0075900	0.0000000	0.0000000	0.0039900
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.68	0.0016600	0.0000000	0.0000000	0.0000000	-0.0004500
Cadmium	226.50	0.0022100	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0001500	-0.0016400
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0005300
Iron	271.44	0.0000000	0.0000000	0.0000000	-0.0003100	0.0000000
Lead	220.35	0.0004400	-0.0019300	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0032200
Manganese	257.61	0.0000000	0.0001100	0.0000000	0.0000000	-0.0000600
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0002600	0.0000000	0.0000000	0.0000000	-0.0021900
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	-0.0032100	0.0000000	0.0000000	0.0000000	-0.0181500
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0001100	-0.0002500
Sodium	330.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0018800
Thallium	190.86	0.0059300	0.0000000	0.0000000	0.0010300	0.0059800
Tin	189.98	0.0000000	0.0000000	0.0000000	-0.0159500	-0.0005000
Vanadium	292.40	0.0000000	0.0002100	0.0000000	0.0000000	-0.0372200
Zinc	213.85	0.0000000	-0.0005800	0.0033500	0.0000000	-0.0031400

METALS
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: TREADWELL & ROLLO SDG No.: DH009

Contract: PRESIDIO Lab Code: RDD Case No.: _____ SAS No.: _____

Instrument ID: TJA61 Date: 1/26/2006

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For:				
		Na	Ni	Pb	Sb	Se
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	-0.0052200	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.68	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0006900	0.0000000	-0.0004700	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0002400	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	-0.0010100	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	-0.0001100	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0006000	0.0000000	0.0000000
Tin	189.98	0.0000000	0.0000000	-0.0001500	-0.0033600	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.85	0.0000000	0.0040100	0.0000000	-0.0011200	0.0000000

METALS
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: TREADWELL & ROLLO SDG No.: DH009

Contract: PRESIDIO Lab Code: RDD Case No.: _____ SAS No.: _____

Instrument ID: TJA61 Date: 1/26/2006

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Si	Sn	Sr	Ti	Tl
Aluminum	308.22	0.0003100	0.0007000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0001000	0.0036200	0.0000000	0.0015800	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.68	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0025400	0.0833000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0017200	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0001700	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0005300
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.98	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METALS
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: TREADWELL & ROLLO SDG No.: DH009

Contract: PRESIDIO Lab Code: RDD Case No.: SAS No.:

Instrument ID: TJA61 Date: 1/26/2006

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: V	Zn	La		
Aluminum	308.22	0.0128500	0.0000000	0.0000000		
Antimony	206.84	0.0005500	-0.0010100	0.0000000		
Arsenic	189.04	0.0004100	0.0000000	0.0000000		
Barium	493.41	0.0000000	0.0000000	0.0000000		
Beryllium	313.04	0.0037000	0.0000000	0.0000000		
Boron	249.68	0.0000000	0.0000000	0.0000000		
Cadmium	226.50	0.0000000	0.0000000	0.0000000		
Calcium	317.93	0.0050600	0.0000000	0.0000000		
Chromium	267.72	0.0003100	0.0000000	0.0000000		
Cobalt	228.62	0.0000000	0.0000000	0.0000000		
Copper	324.75	0.0000000	0.0000000	0.0000000		
Iron	271.44	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	0.0000000	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Molybdenum	202.03	0.0000000	0.0000800	0.0000000		
Nickel	231.60	-0.0002200	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.03	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	0.0000000	0.0000000		
Sodium	330.22	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0000000	0.0000000		
Tin	189.98	0.0000000	0.0000000	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	213.85	0.0000000	0.0000000	0.0000000		

METALS

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LINEAR RANGES

Client: TREADWELL & ROLLO **SDG No.:** DH009

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Instrument ID: TJA61 **Date:** 1/27/2006

Analyte	Integration Time (sec)	LDR ug/L
Aluminum	10.00	1000000
Barium	10.00	100000
Calcium	10.00	1000000
Chromium	10.00	100000
Iron	10.00	500000
Magnesium	10.00	1000000
Manganese	10.00	100000
Molybdenum	10.00	100000
Potassium	10.00	1000000
Sodium	10.00	1000000
Vanadium	10.00	10000
Zinc	10.00	100000

METALS

- 12 -
LINEAR RANGES

Client: TREADWELL & ROLLO **SDG No.:** DH009

Contract: PRESIDIO **Lab Code:** RDD **Case No.:** **SAS No.:**

Instrument ID: ELAN 9000 **Date:** 10/7/2005

Analyte	Integration Time (sec)	LDR ug/L
Antimony	10.00	200
Arsenic	10.00	1000
Lead	10.00	1000
Selenium	10.00	1000
Cadmium	10.00	1000
Cobalt	10.00	1000
Copper	10.00	1000
Nickel	10.00	1000
Silver	10.00	1000
Thallium	10.00	1000
Beryllium	10.00	1000

Support Documentation

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: SW6010 Matrix: Water

Instrument ID: TJA61

Concentration Units (ug/L or mg/kg): MG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
Aluminum	08/01/2005	0.06	0.0721	0.0647	0.0695	0.0647	0.0690	0.0658	0.0683	0.0711	0.0028	0.0080
Iron	08/01/2005	0.10	0.1275	0.1169	0.1167	0.1202	0.1291		0.1171	0.1149	0.0057	0.017
Molybdenum	08/01/2005	0.02	0.0150	0.0154	0.0164	0.0154	0.0159	0.0168	0.0132	0.0159	0.0011	0.0030
Potassium	08/01/2005	1.00	0.9424	0.8816	1.1170	0.9727	1.0030	0.9955	0.8816	1.1480	0.098	0.29
Sodium	08/01/2005	0.50	0.8285	0.8337	0.6880	0.6210	0.6137	0.7910	0.7763	0.6173	0.097	0.29
Barium	08/01/2005	0.01	0.0094	0.0094	0.0094	0.0094	0.0094	0.0094	0.0094	0.0094	0	0.0050
Chromium	08/01/2005	0.01	0.0113	0.0107	0.0133	0.0079	0.0115	0.0105	0.0099	0.0115	0.0015	0.0050
Vanadium	08/01/2005	0.01	0.0118	0.0115	0.0102	0.0105	0.0102	0.0103	0.0105	0.0112	0.0006	0.0020
Calcium	08/01/2005	0.50	0.5637	0.5500	0.5500	0.5500	0.5500	0.5451	0.5546	0.5684	0.0080	0.030
Magnesium	08/02/2005	0.08	0.1095	0.0908	0.0887	0.1003	0.0874	0.0835	0.0902	0.0930	0.0083	0.025
Manganese	08/02/2005	0.003	0.0033	0.0031	0.0033	0.0033	0.0031	0.0033	0.0033	0.0031	0.0001	0.0010
Zinc	08/02/2005	0.01	0.0102	0.0092	0.0095	0.0092	0.0095	0.0090	0.0098	0.0095	0.0004	0.0010

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: SW6020 Matrix: Water

Instrument ID: ELAN 9000

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
Lead	11/11/2005	0.25	0.218	0.224	0.222	0.227	0.217	0.222	0.254	0.248	0.014	0.040
Nickel	11/11/2005	0.50	0.594	0.551	0.593	0.541	0.589	0.570	0.586		0.021	0.070
Silver	11/11/2005	0.50	0.520	0.496	0.518	0.470	0.531	0.516	0.514	0.506	0.019	0.060
Thallium	11/11/2005	0.10	0.103	0.097	0.104	0.091	0.106	0.098	0.101	0.103	0.0047	0.010
Antimony	11/11/2005	0.25	0.098	0.148	0.121	0.112	0.105	0.103	0.097	0.091	0.018	0.050
Cadmium	11/11/2005	0.05	0.039	0.044	0.037	0.043	0.037	0.036	0.040	0.035	0.0031	0.010
Arsenic	11/14/2005	0.25	0.228	0.234	0.257	0.265	0.265	0.239	0.233	0.260	0.015	0.050
Beryllium	11/14/2005	0.05	0.047	0.051	0.055	0.061	0.052	0.055	0.058	0.057	0.0042	0.010
Selenium	11/14/2005	0.50	0.457	0.471	0.566	0.454	0.500	0.529	0.562	0.479	0.045	0.14
Cobalt	11/21/2005	0.50	0.516	0.482	0.481	0.499	0.476	0.454	0.520	0.516	0.023	0.070
Copper	11/21/2005	0.50	0.574	0.533	0.531	0.545	0.528	0.511	0.572	0.559	0.023	0.070

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: SW7470 Matrix: Water

Instrument ID: PE FIMS

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
Mercury	11/04/2005	0.30	0.340	0.333	0.323	0.293	0.321	0.382	0.345	0.346	0.026	0.10

DHC04

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	CB	ANADATA	6010_06A	03/17/06	09:03		X	IR
2	STD	ANADATA	6010_06A	03/17/06	09:06		X	IR
3	STD1	ANADATA	6010_06A	03/17/06	09:09		X	IR
4	~~ICV~~ EG 3-18-06	ANADATA	6010_06A	03/17/06	09:12	EG	Q	CONC
5	ICV1	ANADATA	6010_06A	03/17/06	09:17	EG	Q	CONC
6	ICV Ag	ANADATA	6010_06A	03/17/06	09:20	EG	Q	CONC
7	ICB	ANADATA	6010_06A	03/17/06	09:24	EG	B	CONC
8	RLS	ANADATA	6010_06A	03/17/06	09:26	EG	Q	CONC
9	Ba RLS	ANADATA	6010_06A	03/17/06	09:29	EG	S	CONC
10	ICSA	ANADATA	6010_06A	03/17/06	09:31	EG	Q	CONC
11	ICSAB	ANADATA	6010_06A	03/17/06	09:34	EG	Q	CONC
12	WSL0600400-011	ANADATA	6010_06A	03/17/06	09:38	EG	S	CONC
13	WSL0600400-012	ANADATA	6010_06A	03/17/06	09:42	EG	S	CONC
14	WSL0600400-013	ANADATA	6010_06A	03/17/06	09:46	EG	S	CONC
15	WSL0600400-014	ANADATA	6010_06A	03/17/06	09:50	EG	S	CONC
16	WSL0600400-015	ANADATA	6010_06A	03/17/06	09:54	EG	S	CONC
17	WSL0600400-016	ANADATA	6010_06A	03/17/06	09:59	EG	S	CONC
18	WTIC0316BLK1	ANADATA	6010_06A	03/17/06	10:07	EG	S	CONC
19	LCSW29	ANADATA	6010_06A	03/17/06	10:12	EG	S	CONC
20	LCSW29Dup	ANADATA	6010_06A	03/17/06	10:16	EG	S	CONC
21	WTDH035001	ANADATA	6010_06A	03/17/06	10:20	EG	S	CONC
22	CCV	ANADATA	6010_06A	03/17/06	10:25	EG	Q	CONC
23	CCVAg	ANADATA	6010_06A	03/17/06	10:31	KL	Q	CONC
24	CCB	ANADATA	6010_06A	03/17/06	10:36	EG	B	CONC
25	WTDH011001	ANADATA	6010_06A	03/17/06	10:40	EG	S	CONC
26	WTDH011001MS	ANADATA	6010_06A	03/17/06	10:44	EG	S	CONC
27	WTDH011001MSD	ANADATA	6010_06A	03/17/06	10:48	EG	S	CONC
28	WTDH011001A	ANADATA	6010_06A	03/17/06	10:52	EG	S	CONC
29	WTDH011001L	ANADATA	6010_06A	03/17/06	10:57	EG	S	CONC
30	WTDH011002	ANADATA	6010_06A	03/17/06	11:01	EG	S	CONC
31	WTDH011003	ANADATA	6010_06A	03/17/06	11:05	EG	S	CONC
32	WTDH011004	ANADATA	6010_06A	03/17/06	11:09	EG	S	CONC
33	WTD0600037-001	ANADATA	6010_06A	03/17/06	11:13	EG	S	CONC
34	WTL0600471-002	ANADATA	6010_06A	03/17/06	11:17	EG	S	CONC
35	~~CCV~~ EG 3-18-06	ANADATA	6010_06A	03/17/06	11:24	EG	Q	CONC
36	~~CCVAg~~	ANADATA	6010_06A	03/17/06	11:29	KL	Q	CONC
37	CCV	ANADATA	6010_06A	03/17/06	11:46	EG	Q	CONC
38	CCV Ag	ANADATA	6010_06A	03/17/06	11:49	EG	Q	CONC
39	~~CCB~~ EG 3-18-06	ANADATA	6010_06A	03/17/06	11:53	EG	B	CONC
40	CCB	ANADATA	6010_06A	03/17/06	12:02	EG	B	CONC
41	WTL0600471-003	ANADATA	6010_06A	03/17/06	12:05	EG	S	CONC
42	WTL0600471-008	ANADATA	6010_06A	03/17/06	12:09	EG	S	CONC
43	WSIC0815BLK2	ANADATA	6010_06A	03/17/06	12:18	EG	S	CONC
44	LCSW29-1	ANADATA	6010_06A	03/17/06	12:22	EG	S	CONC
45	LCSWDup	ANADATA	6010_06A	03/17/06	12:26	EG	S	CONC
46	WTD0600020-001	ANADATA	6010_06A	03/17/06	12:31	EG	S	CONC
47	WSDH009001	ANADATA	6010_06A	03/17/06	12:35	EG	S	CONC
48	WSDH009001MS	ANADATA	6010_06A	03/17/06	12:39	EG	S	CONC
49	WSDH009001MSD	ANADATA	6010_06A	03/17/06	12:43	EG	S	CONC
50	WSDH009001A	ANADATA	6010_06A	03/17/06	12:47	EG	S	CONC
51	CCV	ANADATA	6010_06A	03/17/06	12:54	EG	Q	CONC
52	CCVAg	ANADATA	6010_06A	03/17/06	12:59	EG	Q	CONC
53	CCB	ANADATA	6010_06A	03/17/06	13:06	EG	B	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	WSDH009001L	ANADATA	6010_06A	03/17/06	13:10	EG	S	CONC
55	WSDH009002	ANADATA	6010_06A	03/17/06	13:14	EG	S	CONC
56	WSDH009003	ANADATA	6010_06A	03/17/06	13:18	EG	S	CONC
57	WSDH009004	ANADATA	6010_06A	03/17/06	13:22	EG	S	CONC
58	WTDH009002	ANADATA	6010_06A	03/17/06	13:26	EG	S	CONC
59	WTDH009003	ANADATA	6010_06A	03/17/06	13:30	EG	S	CONC
60	WTDH024001	ANADATA	6010_06A	03/17/06	13:34	EG	S	CONC
61	~~WTDH024002~~ LV 3.18.06	ANADATA	6010_06A	03/17/06	13:39	EG	S	CONC
62	WTDH024003	ANADATA	6010_06A	03/17/06	13:43	EG	S	CONC
63	~~WTDH024004~~	ANADATA	6010_06A	03/17/06	13:47	EG	S	CONC
64	CCV - Sb out	ANADATA	6010_06A	03/17/06	13:53	EG	Q	CONC
65	CCVAg	ANADATA	6010_06A	03/17/06	13:59	EG	Q	CONC
66	CCB	ANADATA	6010_06A	03/17/06	14:05	EG	B	CONC
67	WTDH024005	ANADATA	6010_06A	03/17/06	14:09	EG	S	CONC
68	WTDH024006	ANADATA	6010_06A	03/17/06	14:14	EG	S	CONC
69	WTDH024007	ANADATA	6010_06A	03/17/06	14:18	EG	S	CONC
70	LCSW29	ANADATA	6010_06A	03/17/06	14:47	EG	Q	CONC
71	LCSWDup	ANADATA	6010_06A	03/17/06	14:50	EG	Q	CONC
72	WTDH024002X10	ANADATA	6010_06A	03/17/06	14:52	EG	S	CONC
73	WTDH024004X10	ANADATA	6010_06A	03/17/06	14:56	EG	S	CONC
74	CCV - Sb out @ 86%	ANADATA	6010_06A	03/17/06	15:01	EG	Q	CONC
75	CCVAg LV 3.18.06	ANADATA	6010_06A	03/17/06	15:07	EG	Q	CONC
76	CCB	ANADATA	6010_06A	03/17/06	15:11	EG	B	CONC
77	SOIC0314BLK1	ANADATA	6010_06A	03/17/06	15:13	EG	S	CONC
78	LCSS29--	ANADATA	6010_06A	03/17/06	15:17	EG	S	CONC
79	LCSS29Dup-	ANADATA	6010_06A	03/17/06	15:21	EG	S	CONC
80	SODG992001	ANADATA	6010_06A	03/17/06	15:26	EG	S	CONC
81	SOL0600451-001	ANADATA	6010_06A	03/17/06	15:30	EG	S	CONC
82	CCV	ANADATA	6010_06A	03/17/06	15:36	EG	Q	CONC
83	CCVAg	ANADATA	6010_06A	03/17/06	15:42	EG	Q	CONC
84	CCB	ANADATA	6010_06A	03/17/06	15:48	EG	B	CONC
85	SOL0600451-001MS	ANADATA	6010_06A	03/17/06	15:52	EG	S	CONC
86	SOL0600451-001MSD	ANADATA	6010_06A	03/17/06	15:57	EG	S	CONC
87	SOL0600451-001A	ANADATA	6010_06A	03/17/06	16:01	EG	S	CONC
88	SOL0600451-001L	ANADATA	6010_06A	03/17/06	16:05	EG	S	CONC
89	~~SPIC0311BLK1~~	ANADATA	6010_06A	03/17/06	16:14	EG	S	CONC
90	LCSW29 LV 3.18.06	ANADATA	6010_06A	03/17/06	16:18	EG	S	CONC
91	~~WTDG949003~~	ANADATA	6010_06A	03/17/06	16:22	EG	S	CONC
92	CCV	ANADATA	6010_06A	03/17/06	16:29	EG	Q	CONC
93	CCVAg	ANADATA	6010_06A	03/17/06	16:34	EG	Q	CONC
94	CCB	ANADATA	6010_06A	03/17/06	16:41	EG	B	CONC
95	TCIC0310BLK1	ANADATA	6010_06A	03/17/06	16:45	EG	S	CONC
96	LCSW-1	ANADATA	6010_06A	03/17/06	16:50	EG	S	CONC
97	WTDG963002	ANADATA	6010_06A	03/17/06	16:54	EG	S	CONC
98	WTDG963002MS	ANADATA	6010_06A	03/17/06	16:58	EG	S	CONC
99	WTDG963002MSD	ANADATA	6010_06A	03/17/06	17:02	EG	S	CONC
100	WTDG963002A	ANADATA	6010_06A	03/17/06	17:16	EG	S	CONC
101	WTDG963002A	ANADATA	6010_06A	03/17/06	17:19	EG	S	CONC
102	WTDG963002L	ANADATA	6010_06A	03/17/06	17:22	EG	S	CONC
103	CCV	ANADATA	6010_06A	03/17/06	17:24	EG	Q	CONC
104	CCVAg	ANADATA	6010_06A	03/17/06	17:28	KL	Q	CONC
105	CCB	ANADATA	6010_06A	03/17/06	17:34	EG	B	CONC
106	WTIC0228BLK1	ANADATA	6010_06A	03/17/06	17:38	EG	S	CONC
107	LCSW-1	ANADATA	6010_06A	03/17/06	17:42	EG	S	CONC

Dataset Report

User Name: dmetcalf
Dataset File Path: C:\elandata\Dataset\033106\
Report Date/Time: Saturday, April 01, 2006 11:02:41

The Dataset

Batch ID	Sample ID	Date and Time	Method	Description
SmartTune - B	Mass Calibration and Resolution	09:11:22 Fri 31-Mar-06	CAS tuning.mth	
SmartTune - B	Lens Voltage	09:12:58 Fri 31-Mar-06	CAS optimize.mth	
SmartTune - B	Mass Calibration and Resolution	09:13:47 Fri 31-Mar-06	CAS tuning.mth	
SmartTune - B	Lens Voltage	09:15:21 Fri 31-Mar-06	CAS optimize.mth	
SmartTune - B	Mass Calibration and Resolution	09:16:13 Fri 31-Mar-06	C:\elandata\Method\CAS tuning.mth	
SmartTune - B	Lens Voltage	09:17:47 Fri 31-Mar-06	C:\elandata\Method\CAS optimize.mth	
SmartTune - B	Auto Lens Calibration	09:19:51 Fri 31-Mar-06	C:\elandata\Method\CAS AutoLens Calibration.mth	Auto Lens Calib
SmartTune - B	Daily Performance Check	09:29:47 Fri 31-Mar-06	C:\elandata\Method\CAS Daily.mth	
	Blank	11:11:03 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
	Standard 1	11:13:15 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
	ICV	11:19:07 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
	ICB	11:28:43 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
	RLS	11:31:30 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
	ICSA	11:37:13 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
	ICSAB	11:42:56 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
~~033106~~	~~WSICPMS0328BLK3~~	11:52:25 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
~~033106~~	~~LWICPMS0328LCS3X10~~	11:54:37 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF10
033106	WSICPMS0328BLK3	12:05:17 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	LWICPMS0328LCS3	12:07:30 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	LWICPMS0328LCSD3	12:09:43 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSDH031-001	12:11:55 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
	CCV	12:14:32 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
	CCB	12:22:10 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
033106	WSDH031-002	12:24:06 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSDH031-003	12:26:19 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSDH031-003L	12:28:32 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF5
033106	WSDH031-003A	12:30:44 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSDH031-003MSX10	12:32:56 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF10
033006A	CCV	12:54:39 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
033006A	CCB	13:02:16 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
033106	WTL0600499014	13:04:48 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF5
033106	WTL0600499014L	13:06:51 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTL0600499014A	13:08:54 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTL0600499014MS	13:10:58 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTL0600499014MSD	13:13:02 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSDH031-004	13:15:06 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSDH031-005	13:17:10 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSDH031-006	13:19:13 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
	CCV	13:21:51 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
	CCB	13:29:28 Fri 31-Mar-06	C:\elandata\Method\033106.mth	

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033106	WTDH005002	15:47:59 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTDH005003	15:50:02 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTDH005004	15:52:06 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTDH005005	15:54:09 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTDH005006	15:56:13 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSICPMS0315BLK2	15:58:17 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	LWICPMS0315LCS2X10	16:00:21 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF10
033106	LWICPMS0315LCSD2X10	16:02:24 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF10
	CCV	16:05:03 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
	CCB	16:12:40 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
033106	WSDH009001	16:14:27 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSDH009001L	16:16:30 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF5
033106	WSDH009001A	16:18:34 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
~~033106~~	~~WSDH009001MS~~	16:20:39 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
~~033106~~	~~WSDH009001MSD~~	16:22:43 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSDH009001MS	16:30:48 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
033106	WSDH009001MSD	16:36:10 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
033106	CCV	16:38:32 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
033106	CCB	16:46:10 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
033106	WSDH009002	16:55:39 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSDH009003	16:57:43 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSDH009004	16:59:48 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTDH009002	17:01:54 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTDH009003	17:03:59 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTICPMS0323BLK2	17:06:03 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	LWICPMS0323LCS2X10	17:08:07 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF10
033106	LWICPMS0323LCSD2X10	17:10:12 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF10
	CCV	17:12:50 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
	CCB	17:20:27 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
033106	WTL0600492001	17:22:15 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTL0600483001	17:24:19 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTL0600483001L	17:26:24 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTL0600483001A	17:28:28 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WTL0600483001MSX10	17:30:33 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF10
033106	WTL0600483001MSDX10	17:32:37 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF10
033106	WSICPMS0323BLK1	17:34:51 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	LWICPMS0323LCS1	17:37:06 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	LWICPMS0323LCSD1	17:39:21 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
	CCV	17:42:00 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
	CCB	17:49:37 Fri 31-Mar-06	C:\elandata\Method\033106.mth	
033106	WSL0600499002	17:51:35 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSL0600499002L	17:53:50 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS DF5
033106	WSL0600499002A	17:56:04 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSL0600499002MS	17:58:20 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSL0600499002MSD	18:00:34 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSL0600499003	18:02:50 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS
033106	WSL0600499004	18:05:05 Fri 31-Mar-06	C:\elandata\Method\033106.mth	6020 WATERS

Dataset Report

User Name: dmetcalf
Dataset File Path: C:\elandata\Dataset\Apr 06\040306A\
Report Date/Time: Monday, April 03, 2006 17:22:36

The Dataset

Batch ID	Sample ID	Date and Time	Method	Description
	Blank	12:13:56 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	Standard 1	12:17:44 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	ICV	12:23:12 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	ICB	12:32:06 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	RLS	12:36:39 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	ICSA	12:43:08 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	ICSAB	12:48:39 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
040306A	WTWSICPMS0311BLK3	12:56:45 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	LWICPMS0311LCS3	12:59:35 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	LWICPMS0311LCSD3	13:02:24 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH005001	13:05:13 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH005001L	13:08:02 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS DF5
040306A	WSDH005001A	13:10:51 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH005001MS	13:13:40 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH005001MSD	13:16:30 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
	CCV	13:19:44 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	CCB	13:27:17 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
040306A	WSDH005002	13:30:51 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH005003	13:33:41 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH005004	13:36:31 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH005005	13:39:22 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH005006	13:42:12 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WTDH006001	13:45:02 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WTDH006002	13:47:52 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
	CCV	13:53:13 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	CCV	14:04:10 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	Blank	14:14:25 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	Standard 1	14:18:12 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	ICV	14:23:40 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	ICB	14:32:33 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	RLS	14:37:07 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	ICSA	14:43:36 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	ICSAB	14:49:07 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
040306A	WSDH005002	14:57:13 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH005003	15:00:03 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH005004	15:02:53 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH005005	15:05:45 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH005006	15:08:35 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WTDH006001	15:11:24 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WTDH006002	15:14:14 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS

Re Co, Cu, Ni, Pb only

DH009

	CCV	15:22:36 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	CCB	15:30:09 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
040306A	WTDH006002X10	15:34:56 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS DF10
	CCV	15:38:10 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	CCB	15:45:45 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
040306A	WTDH006003	15:49:18 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH006001	15:52:08 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH006002	15:54:58 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH006003	15:57:47 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WTWSICPMS0315BLK2	16:00:36 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	LWICPMS0315LCS2	16:03:26 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	LWICPMS0315LCSD2	16:06:16 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WTDH009002	16:09:06 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
	CCV	16:12:21 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	CCB	16:19:54 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
040306A	WTDH009003	16:23:29 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH009001	16:26:19 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH009002	16:29:08 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH009003	16:31:58 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH009004	16:34:48 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH027003	16:37:38 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH027003L	16:40:28 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS DF5
040306A	WSDH027003A	16:43:17 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH027003MS	16:46:07 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
040306A	WSDH027003MSD	16:48:57 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	6020 WATERS
	CCV	16:56:36 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	
	CCB	17:04:09 Mon 03-Apr-06	C:\elandata\Method\040306a.mth	

DH009

Dataset Report

User Name: dmetcalf
Dataset File Path: C:\elandata\Dataset\Apr 06\041306A\
Report Date/Time: Thursday, April 13, 2006 15:38:56

RepFile 41206A at the End

The Dataset

As, Se, Cd, Tl, Be only

Batch ID	Sample ID	Date and Time	Method	Description
	Blank	13:10:00 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
	Standard 1	13:14:02 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
	ICV	13:19:45 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
	ICB	13:28:51 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
	RLS	13:33:38 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
	ICSA	13:40:21 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
	ICSAB	13:46:05 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
041306A	WTWSICPMS0311BLK3	13:54:25 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	LWICPMS0311LCS3	13:57:29 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	LWICPMS0311LCSD3	14:00:35 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	WSDH005-001	14:03:39 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	WSDH005-002	14:06:45 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	WSDH005-003	14:09:50 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	WSDH005-004	14:12:55 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	WSDH005-005	14:16:00 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
	CCV	14:19:29 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
	CCB	14:27:17 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
041306A	WSDH005-006 - No Be Screen Due 4-13-06	14:31:05 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	WTWSICPMS0315BLK2	14:34:11 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	LWICPMS0315LCS2	14:37:16 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	LWICPMS0315LCSD2	14:40:21 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	WTDH009-002	14:43:26 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	WTDH009-003	14:46:32 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	WSDH009-001	14:49:37 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	WSDH009-002	14:52:42 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
	CCV	14:56:11 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
	CCB	15:03:59 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
041306A	WSDH009-003	15:07:47 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
041306A	WSDH009-004	15:10:53 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	6020 WATERS
	CCV	15:14:20 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
	CCB	15:22:06 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
041306A	WSDH005-006	15:25:55 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
	CCV	15:29:24 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	
	CCB	15:37:11 Thu 13-Apr-06	C:\elandata\Method\041306a.mth	

Element : Hg
Method : SW7470/SW7471/EPA245.1/EPA245.5
Run # : V060316

Analyst (Date/Initials) 03-16-06 LAS
Reduced (Date/Initials) 03-16-06 LAS
Reviewed (Date/Initials) 3-21-06 EL

Correlation: 0.99932
Slope : 0.01656
Intercept : 0.0012

Soil Units : mg/kg
Water Units: ug/L

Sample ID	Date	Time	Absorb	Dil	Wt FVol	Concentration	%Rec	RS
Calib Blank	03/16/2006	17:21:13	0.0007	1		0		N
Standard 1	03/16/2006	17:23:33	0.0030	1		0.2		N
Standard 2	03/16/2006	17:25:55	0.0174	1		1		N
Standard 3	03/16/2006	17:28:18	0.0706	1		4		N
Standard 4	03/16/2006	17:30:49	0.1032	1		6		N
Standard 5	03/16/2006	17:33:12	0.1640	1		10		N
ICV1	03/16/2006	17:36:58	0.0848	1		5.05 / 5.0	101.0	1.
ICB1	03/16/2006	17:39:16	0.0003	1		<0.10		N
WTHG0315BLK1	03/16/2006	17:41:37	0.0005	1		<0.10		N
LFHG0315LCS1	03/16/2006	17:43:57	0.0344	1		2.00 / 2.0	100.2	1.
LFHG0315LCS1D	03/16/2006	17:46:25	0.0341	1		1.99 - 2.0 / 2.0 RPD =	0.9 / 2.0	
							99.3	0.
WTDH009002L	03/16/2006	17:48:46	0.0002	5		<0.50 %D =	NA	N
WTDH009002	03/16/2006	17:51:18	0.0011	1		<0.10		N
WTDH009002A	03/16/2006	17:54:25	0.0351	1		2.05 - 0 / 2.0	102.5	2.
WTDH009002MS	03/16/2006	17:56:47	0.0373	1		2.18 - 0 / 2.0 RPD=0.5	109.1	0.
WTDH009002MSD	03/16/2006	17:59:03	0.0370	1		2.17 - 0 / 2.0	108.3	0.
WTDH020003	03/16/2006	18:01:23	0.0004	1		<0.10		N
CCV1	03/16/2006	18:03:40	0.0727	1		4.32 / 4.0	107.9	0.
CCB1	03/16/2006	18:06:00	0.0002	1		<0.10		N
WTDH020004	03/16/2006	18:08:24	0.0009	1		<0.10		N
WTDH020005	03/16/2006	18:10:44	0.0003	1		<0.10		N
WTDH024001	03/16/2006	18:13:05	0.0036	1		0.150		N
WTDH024002	03/16/2006	18:15:25	0.0002	1		<0.10		N
WTDH024003	03/16/2006	18:17:51	0.0092	1		0.483		3.
~~WTDH024004~~	~~03/16/2006~~	~~18:20:18~~	~~0.1708~~	~~1~~	LAS 03-16-06	~~Over-range~~		~~0.~~
WTDH024005	03/16/2006	18:22:38	0.0003	1		<0.10		N
~~WTDH024006~~	~~03/16/2006~~	~~18:25:01~~	~~1.1095~~	~~1~~	LAS 03-16-06	~~Over-range~~		~~0.~~
WTDH024007	03/16/2006	18:27:23	0.0009	1		<0.10		N
CCV2	03/16/2006	18:29:47	0.0715	1		4.25 / 4.0	106.2	0.
CCB2	03/16/2006	18:32:06	-0.0000	1		<0.10		N
WTDH024004	03/16/2006	18:36:47	0.0973	2		11.6		0.
~~WTDH024006~~	~~03/16/2006~~	~~18:39:08~~	~~0.2057~~	~~10~~	LAS 03-16-06	~~124~~		~~1.~~
WTDH025001	03/16/2006	18:41:28	0.0005	1		<0.10		N
WTDH026001	03/16/2006	18:43:44	0.0017	1		<0.10		N
WTDH029001	03/16/2006	18:46:01	0.0007	1		<0.10		N
WTDH035001	03/16/2006	18:48:28	0.0007	1		<0.10		N
L0600467-001	03/16/2006	18:50:47	-0.0000	1		<0.10		N
L0600468-001	03/16/2006	18:53:05	0.0006	1		<0.10		N
L0600469-001	03/16/2006	18:55:26	0.0011	1		<0.10		N
WSHG0315BLK2	03/16/2006	18:57:46	0.0002	1		<0.10		N
CCV3	03/16/2006	19:00:11	0.0736	1		4.37 / 4.0	109.4	0.
CCB3	03/16/2006	19:02:34	0.0006	1		<0.10		N
LFHG0315LCS2	03/16/2006	19:04:54	0.0359	1		2.10 / 2.0	104.8	0.
LFHG0315LCS2D	03/16/2006	19:07:18	0.0354	1		2.07 - 2.1 / 2.1 RPD =	1.3 / 2.0	
							103.4	1.
WSDH031001L	03/16/2006	19:09:39	0.0008	5		<0.50 %D =	NA	N

Element : Hg
Method : SW7470/SW7471/EPA245.1/EPA245.5
Run # : V060420

Analyst (Date/Initials) 04-20-06 LAS
Reduced (Date/Initials) 04-20-06 LAS
Reviewed (Date/Initials)

Correlation: 0.99980
Slope : 0.00995
Intercept : 0.0014

Soil Units : mg/kg
Water Units: ug/L

Sample ID	Date	Time	Absorb	Dil	Wt FVol	Concentration	%Rec	RSD
Calib Blank	04/20/2006	19:03:47	0.0008	1		0		NA
Standard 1	04/20/2006	19:06:05	0.0043	1		0.2		NA
Standard 2	04/20/2006	19:08:26	0.0117	1		1		NA
Standard 3	04/20/2006	19:10:47	0.0412	1		4		NA
Standard 4	04/20/2006	19:13:12	0.0612	1		6		NA
Standard 5	04/20/2006	19:15:35	0.1006	1		10		NA
ICV1	04/20/2006	19:23:08	0.0531	1		5.20 / 5.0	104.1	1.4
ICB1	04/20/2006	19:25:26	0.0003	1		-0.102		NA
TCHG0420BLK1	04/20/2006	19:27:43	0.0012	1		<0.10		NA
LFHG0420LCS1	04/20/2006	19:30:05	0.0227	1		2.15 / 2.0	107.3	2.6
LFHG0420LCS1D	04/20/2006	19:32:24	0.0236	1		2.24 - 2.1 / 2.2 RPD =	4.1 / 2.0	
							111.8	0.5
D0600238-002L	04/20/2006	19:34:47	0.0004	5		<0.50 %D =	NA	NA
D0600238-002	04/20/2006	19:37:13	0.0026	1		0.128		NA
D0600238-002A	04/20/2006	19:40:08	0.0218	1		2.05 - 0.1 / 2.0	96.1	2.0
D0600238-002MS	04/20/2006	19:42:28	0.0244	1		2.31 - 0.1 / 2.0 RPD=1.7	109.3	3.8
D0600238-002MSD	04/20/2006	19:44:48	0.0247	1		2.35 - 0.1 / 2.0	110.9	3.9
WTWSHG0420BLK2	04/20/2006	19:47:05	0.0008	1		<0.10		NA
CCV1	04/20/2006	19:49:23	0.0440	1		4.28 / 4.0	107.1	2.6
CCB1	04/20/2006	19:51:41	0.0008	1		<0.10		NA
LFHG0420LCS2	04/20/2006	19:54:02	0.0235	1		2.22 / 2.0	111.2	1.9
LFHG0420LCS2D	04/20/2006	19:56:22	0.0232	1		2.19 - 2.2 / 2.2 RPD =	1.3 / 2.0	
							109.7	2.8
WSL0600627-010L	04/20/2006	19:58:43	0.0003	5		<0.50 %D =	NA	NA
WSL0600627-010	04/20/2006	20:01:03	0.0008	1		<0.10		NA
WSL0600627-010A	04/20/2006	20:04:00	0.0230	1		2.18 - 0 / 2.0	108.9	0.7
WSL0600627-010MS	04/20/2006	20:06:20	0.0133	1		1.20 - 0 / 2.0	59.9	4.3
WSL0600627-010MSD						RPD= 9.8		
	04/20/2006	20:08:42	0.0122	1		1.09 - 0 / 2.0	54.3	0.2
WTL0600627-010L	04/20/2006	20:11:04	-0.0000	5		<0.50 %D =	NA	NA
WTL0600627-010	04/20/2006	20:13:26	0.0001	1		<0.10		NA
CCV2	04/20/2006	20:15:47	0.0435	1		4.23 / 4.0	105.8	0.3
CCB2	04/20/2006	20:18:11	0.0016	1		<0.10		NA
WTL0600627-010A	04/20/2006	20:21:44	0.0228	1		2.15 - 0 / 2.0	107.6	0.7
WTL0600627-010MS	04/20/2006	20:24:01	0.0117	1		1.04 - 0 / 2.0	51.9	6.1
WTL0600627-010MSD						RPD= 0.8		
	04/20/2006	20:26:17	0.0116	1		1.03 - 0 / 2.0	51.5	1.8
WSL0600627-001	04/20/2006	20:28:36	0.0015	1		<0.10		NA
WTL0600627-001	04/20/2006	20:30:54	0.0015	1		<0.10		NA
WSL0600627-002	04/20/2006	20:33:13	0.0013	1		<0.10		NA
WTL0600627-002	04/20/2006	20:35:36	0.0019	1		<0.10		NA
WSL0600627-004	04/20/2006	20:37:55	0.0016	1		<0.10		NA
WTL0600627-004	04/20/2006	20:40:17	0.0018	1		<0.10		NA
CCV3	04/20/2006	20:42:37	0.0441	1		4.30 / 4.0	107.4	0.8
CCB3	04/20/2006	20:44:58	0.0006	1		<0.10		NA
WSL0600627-005	04/20/2006	20:47:22	0.0014	1		<0.10		NA
WTL0600627-005	04/20/2006	20:49:45	0.0015	1		<0.10		NA

WSL0600627-006	04/20/2006	20:52:06	0.0017	1	<0.10		NA
WTL0600627-006	04/20/2006	20:54:33	0.0065	1	0.513		2.5
WSL0600627-008	04/20/2006	20:56:53	0.0012	1	<0.10		NA
WTL0600627-008	04/20/2006	20:59:11	0.0012	1	<0.10		NA
WSL0600627-009	04/20/2006	21:01:29	0.0036	1	0.225		NA
WTL0600627-009	04/20/2006	21:03:48	0.0050	1	0.364		4.3
WTD0600223-001	04/20/2006	21:06:06	0.0001	1	<0.10		NA
CCV4	04/20/2006	21:08:24	0.0458	1	4.47 / 4.0	111.7	0.6
CCB4	04/20/2006	21:10:41	0.0009	1	<0.10		NA
WTD0600284-001	04/20/2006	21:13:04	0.0048	1	0.349		91.6
WSDH009-002	04/20/2006	21:15:28	0.0009	1	<0.10		NA
WTDH009-002	04/20/2006	21:17:47	0.0011	1	<0.10		NA
CCV5	04/20/2006	21:20:06	0.0491	1	4.80 / 4.0	119.9	1.3
CCB5	04/20/2006	21:22:22	0.0012	1	<0.10		NA
				0	0.0000		0.0

Method:	
	200.2 - Total Recoverable Metals/200.7/200.8
	3005 - Dissolved Metals
☒	3010 - Total Metals/ICP
	3020 - Total Metals/GFAA/ICP-MS
	3050B - Total Metals/ICP/GFAA/ICP-MS
	CLP - ILM 4.0

METALS DIGESTION LOG

Analysis Lot #: 03150601CP2
Hot Plate Temp: (90 - 95°C)
Mod Block Temp: 90°C (90 - 95°C)

Prepared: YM	Date: 03/15/06
Spike Witness: D 3.15.06	
Reviewed:	
Received:	

Sample Type	Digestion Code	Reference Number	Sample Amount	Final Volume	Acid Conc.	Completed Date	Comments
Water	Dig 2	D060 0020-1 (.06)	50ml	50ml	1%	03/15/06	
	Dig 7	DH009-1 H					
		-2 J					
		-3					
		-4 H					
		-1ms					2.5ml x WS [spk 1,4] 132
		-1msd					1.25ml x WS [spk 3] 126 YM 3/15/06
	Dig 2	DH009-2 H					
		-3					
		DH024-1 A					
		-2					
		-3					
		-4					
		-5					
		-6					
		-7					
	Dig 7	WSWTICP03XS BLK2					
		LWICP0315LCS2	25ml				2.5ml x WS [1.29] 118
		LWICP0315LCSdup2					
					YM 03/15/06		

Reagents:	Lot#:	Received:	Opened:
HNO_3	B49053	02/21/06	03/10/06
HCl	B33039	11/02/05	03/13/06

Yukes 10/27/05

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Method:
- [ ] 200.2 - Total Recoverable Metals/200.7/200.8
- [ ] 3005 - Dissolved Metals
- [ ] 3010 - Total Metals/ICP
- [x] 3020 - Total Metals/GFAA/ICP-MS
- [ ] 3050B - Total Metals/ICP/GFAA/ICP-MS
- [ ] CLP - ILM 4.0

METALS DIGESTION LOG

Analysis Lot #: 031506ICPMS2
Hot Plate Temp: (90 - 95°C)
Mod Block Temp: 90°C (90 - 95°C)

Prepared: YM Date: 03/15/06
Spike Witness: EV 3-15-06
Reviewed:
Received:

Sample Type	Digestion Code	Reference Number	Sample Amount	Final Volume	Acid Conc.	Completed Date	Comments
Water	Dig 2	D06000020-1 (.06)	50ml	50ml	2%	03/15/06	
		DH009-2 H					
		-3					
		DH015 -1 D					
	Dig 7	L06000444-21 (.030)					
		-22					
		DH009-1 H					
		-2 J					
		-3					
		-4 H					
		DH017 -1 G					
		DH027-3					
		-3MS					0.5ml x LOS [MS spk] 137
		-3MSD					
	Dig 2, 7	WTWSDUPMS031506K2					
		LWOICPMS031506LCS2	0.5ml				0.5ml x LOS [MS spk] 137
		LWOICPMS031506LCSdup2					

YM 03/15/06

Reagents:	Lot#:	Received:	Opened:
HNO_3	349053	02/21/06	03/10/06
H_2O_2	45253545	01/07/06	02/19/06

tubes 10/24/05

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Columbia Analytical Services Inc.
Redding, CA

MERCURY WATER CALIBRATION LOG

Method:		
		SW-846 7470A - Hg Water - CVAA
	X	EPA 245.1 - Hg Water - CVAA
		CLP - ILM 4.0

Water Bath: 95°C
Warm Up bath: 1530-1630
Warm Up tubes: 1630-1640
Cook: 1640-1840
Cool Down: 1840-1940

Solution	Id. #
$KMnO_4$	R1-54-13
$K_2S_2O_8$	R1-53-25
Hydroxylamine	R1-54-9
$SnCl_2$	R1-54-20

Initials: LAS Date: 03-12-06

Sample Type	Concentration (ppb)	Reference Number	Standard Volume	Final Volume	Acid Amounts HNO_3	Acid Amounts H_2SO_4	Reagent Amounts $KMnO_4$	Reagent Amounts $K_2S_2O_8$	Reagent Amounts Hydroxyl-amine	Reagent Amounts $SnCl_2$	Standard Soln
Water	0.2	Calibration 1	0.2ml	20ml	0.5ml	1.0ml	3.0ml	1.5ml	2.0ml	FIMS	HgWSL 2B
	1	Calibration 2	1.0ml	20ml	0.5ml	1.0ml	3.0ml	1.5ml	2.0ml	FIMS	↓
	4	Calibration 3	0.4ml	20ml	0.5ml	1.0ml	3.0ml	1.5ml	2.0ml	FIMS	HgWSH 2B
	6	Calibration 4	0.6ml	20ml	0.5ml	1.0ml	3.0ml	1.5ml	2.0ml	FIMS	↓
	10	Calibration 5	1.0ml	20ml	0.5ml	1.0ml	3.0ml	1.5ml	2.0ml	FIMS	↓
	5	Initial Cal. Ver.	0.5ml	20ml	0.5ml	1.0ml	3.0ml	1.5ml	2.0ml	FIMS	HgWSICV 2B
	4	Cont. Cal. Ver.	0.4ml	20ml	0.5ml	1.0ml	3.0ml	1.5ml	2.0ml	FIMS	HgWSH 2B

LAS
03-12-06

Acids	J.T.Baker Lot #	Received	Opened
HNO_3	B49053	02-21-06	03-10-06
H_2SO_4	B09039	05-31-05	08-01-05

Columbia Analytical Services Inc.
Redding, CA

MERCURY WATER PREPARATION LOG

Method:		
	X	SW-846 7470A - Hg Water - CVAA
		EPA 245.1 - Hg Water - CVAA
		CLP - ILM 4.0

Water Bath: 95°C
Warm Up bath: 1530-1630
Warm Up tubes: 1630-1640
Cook: 1641-1840
Cool Down: 1840-1940

Solution	Id. #
$KMnO_4$	R1-54-13
$K_2S_2O_8$	R1-53-25
Hydroxylamine	R1-54-9
$SnCl_2$	R1-54-20

Initials: LAS | Date: 03-12-06

Sample Type	Digestion Code	Reference Number		Sample Amount	Final Volume	Acid Amounts HNO_3	Acid Amounts H_2SO_4	Reagent Amounts $KMnO_4$	Reagent Amounts $K_2S_2O_8$	Reagent Amounts Hydroxyl-amine	Reagent Amounts $SnCl_2$	Comments
Water	CV7470A-TCLP-HG	DG963-2	C	20ml	20ml	0.5ml	1.0ml	3.0ml	1.5ml	2.0ml	FIMS	TCLP
		-2MS										
		-2MSD										
		TCHG0312 BLK1										
	CV7470A-HG	LFHG0312LCS1										
		LFHG0312LCS1 dup										
		L0600389-0031										
		-3MS										
		-3MSD										
		-4										
		-7										
		-7MS										
		-7MSD										
		-8										
		D0600021-1										
		D0600020-1										
		DG968-1	A									
	CV7470A-SOL-HG	DH005-5	J									
		-6										
		DH009-2	H									
		WTWS0312 BLK2										
				LAS	03-12-06							

Acids	J.T.Baker Lot #	Received	Opened
HNO_3	B49053	02-21-06	03-10-06
H_2SO_4	B08039	05-31-05	08-01-05

*LCS Spiking Solution: HgWSLCS 7B
* Spiking Solution: HgWSH 7B

Columbia Analytical Services Inc.
Redding, CA

MERCURY WATER CALIBRATION LOG

Method:		
	X	SW-846 7470A - Hg Water - CVAA
	X	EPA 245.1 - Hg Water - CVAA
		CLP - ILM 4.0

Water Bath: 95°C
Warm Up bath: 1800-1900
Warm Up tubes: 1900-1910
Cook: 1910-2110
Cool Down: 2110-2210

Solution	Id. #
$KMnO_4$	R1-54-13
$K_2S_2O_8$	R1-53-25
Hydroxylamine	R1-54-9
$SnCl_2$	R1-54-22

Initials: LAS
Date: 03-15-06

Sample Type	Concentration (ppb)	Reference Number	Standard Volume	Final Volume	Acid Amounts HNO_3	Acid Amounts H_2SO_4	Reagent Amounts $KMnO_4$	Reagent Amounts $K_2S_2O_8$	Reagent Amounts Hydroxyl-amine	Reagent Amounts $SnCl_2$	Standard Soln
Water	0.2	Calibration 1	0.2ml	20ml	0.5ml	1.0ml	3.0ml	1.5ml	2.0ml	FIMS	HgWSL 2C
	1	Calibration 2	1.0ml	20ml	0.5ml	1.0ml	3.0ml	1.5ml	2.0ml	FIMS	↓
	4	Calibration 3	0.4ml	20ml	0.5ml	1.0ml	3.0ml	1.5ml	2.0ml	FIMS	HgWSH 2C
	6	Calibration 4	0.6ml	20ml	0.5ml	1.0ml	3.0ml	1.5ml	2.0ml	FIMS	↓
	10	Calibration 5	1.0ml	20ml	0.5ml	1.0ml	3.0ml	1.5ml	2.0ml	FIMS	↓
	5	Initial Cal. Ver.	0.5ml	20ml	0.5ml	1.0ml	3.0ml	1.5ml	2.0ml	FIMS	HgWSICV 2C
	4	Cont. Cal. Ver.	0.4ml	20ml	0.5ml	1.0ml	3.0ml	1.5ml	2.0ml	FIMS	HgWSH 2C

LAS
03-15-06

Acids	J.T.Baker Lot #	Received	Opened
HNO_3	B49053	02-21-06	03-10-06
H_2SO_4	B09059	05-31-05	08-01-05

Columbia Analytical Services Inc.
Redding, CA

MERCURY WATER PREPARATION LOG

Method:		
	X	SW-846 7470A - Hg Water - CVAA
	X	EPA 245.1 - Hg Water - CVAA
		CLP - ILM 4.0

Water Bath: 95°C
Warm Up bath: 1800-1900
Warm Up tubes: 1900-1910
Cook: 1910-2110
Cool Down: 2110-2210

Solution	Id. #
$KMnO_4$	R1-54-13
$K_2S_2O_8$	R1-53-25
Hydroxylamine	R1-54-9
$SnCl_2$	R1-54-22

Initials: LAS | Date: 03-15-06

Sample Type	Digestion Code	Reference Number		Sample Amount	Final Volume	Acid Amounts HNO_3	Acid Amounts H_2SO_4	Reagent Amounts $KMnO_4$	Reagent Amounts $K_2S_2O_8$	Reagent Amounts Hydroxyl-amine	Reagent Amounts $SnCl_2$	Comments
Water	CV7470A-HG	DH009-2	H	20ml	20ml	0.5ml	1.0ml	3.0ml	1.5ml	2.0ml	FIMS	
		-2MS										
		-2MSD										
		DH020-3	B									
		-4										
		-5										
		DH024-1	A									
		-2										
		-3										
		-4										
		-5										
		-6										
		-7										
	CV245.1-HG	DH025-1	B									
		DH026-1										
		DH029-1	A									
	CV7470A-HG	DH035-1										
	CV245.1-HG	L0600467-001										
		L0600468-001										
		L0600469-001										
	CV7470A-HG	WTHG0315BLK1										
		LFHG0315LCS1										
		LFHG0315LCS1dup										
				LAS	03-15-06							

Acids	J.T.Baker Lot #	Received	Opened
HNO_3	B49053	02-21-06	03-10-06
H_2SO_4	B09039	05-31-05	08-01-05

*LCS Spiking Solution: HgWSLCS 2C
* Spiking Solution: HgWSH 2C

Columbia Analytical Services Inc.
Redding, CA

MERCURY WATER PREPARATION LOG

Method:	
X	SW-846 7470A - Hg Water - CVAA
	EPA 245.1 - Hg Water - CVAA
	CLP - ILM 4.0

Water Bath: 95°C
Warm Up bath: 1430-1550
Warm Up tubes: 1550-1600
Cook: 1600-1800
Cool Down: 1800-1900

Solution	Id. #
$KMnO_4$	R1-55-16
$K_2S_2O_8$	R1-55-3
Hydroxylamine	R1-55-6
$SnCl_2$	R1-55-17

Initials: LAS Date: 04-20-06

Sample Type	Digestion Code	Reference Number	Sample Amount	Final Volume	Acid Amounts HNO_3	Acid Amounts H_2SO_4	Reagent Amounts $KMnO_4$	Reagent Amounts $K_2S_2O_8$	Reagent Amounts Hydroxyl-amine	Reagent Amounts $SnCl_2$	Comments
Water	7470A-HG	WS L06000627-001	20ml	20ml	0.5ml	1.0ml	3.0ml	1.5ml	2.0ml	FIMS	
		WT -001									
		WS -002									
		WT -002									
		WS -004									
		WT -004									
		WS -005									
		WT -005									
		WS -006									
		WT -006									
		WS -008									
		WT -008									
		WS -009									
		WT -009									
		WS -010									
		WS -010 MS									
		WS -010 MSD									
		WT -010									
		WT -010 MS -010 MSD									
		WT D06000223-001									
		WT D06000284-001									
		WS DH009-002 J									
		WT DH009-002 H									
		~~WT WSHG0420 BLK 2~~									
		LFHG0420 LCS 2									
		~~LFHG0420 LCS 2 Dup~~									

Acids	J.T.Baker Lot #	Received	Opened
HNO_3	154905 3	02-21-06	04-19-06
H_2SO_4	B09039	05-31-05	08-01-05

*LCS Spiking Solution: HgWSLCS 3
* Spiking Solution: HgWSH 3

GC TPH DIESEL/MOTOROIL

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: 03/08/2006
Date Received: 03/09/2006

Diesel Range Organics / Motor Oil Range Organics

Sample Name: DAESP03CL
Lab Code: DH009002
Extraction SW3510
Analysis Method: SW8015

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Motor Oil (C24-C36)	ND	U	300	1	03/14/2006	04/07/2006	DWB10314	
TPH-Diesel (C10-C24)	**58**		50	1	03/14/2006	04/07/2006	DWB10314	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	92	65-135	04/07/2006	
Triacontane - SS	94	65-135	04/07/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: 03/08/2006
Date Received: 03/09/2006

Diesel Range Organics / Motor Oil Range Organics

Sample Name: BB3SW104CL
Lab Code: DH009003
Extraction SW3510
Analysis Method: SW8015

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Motor Oil (C24-C36)	ND	U	300	1	03/14/2006	04/07/2006	DWB10314	
TPH-Diesel (C10-C24)	ND	U	50	1	03/14/2006	04/07/2006	DWB10314	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	105	65-135	04/07/2006	
Triacontane - SS	107	65-135	04/07/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: 03/08/2006
Date Received: 03/09/2006

Diesel Range Organics / Motor Oil Range Organics

Sample Name: 231GW21CL
Lab Code: DH009004
Extraction SW3510
Analysis Method: SW8015

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Motor Oil (C24-C36)	ND	U	300	1	03/14/2006	04/07/2006	DWB10314	
TPH-Diesel (C10-C24)	**1200**		50	1	03/14/2006	04/07/2006	DWB10314	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	92	65-135	04/07/2006	
Triacontane - SS	94	65-135	04/07/2006	

Comments: _____

QC Summary

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: NA
Date Received: NA

Diesel Range Organics / Motor Oil Range Organics

Sample Name: Method Blank
Lab Code: DWB10314
Extraction SW3510
Analysis Method: SW8015

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Motor Oil (C24-C36)	ND	U	300	1	03/14/2006	04/07/2006	DWB10314	
TPH-Diesel (C10-C24)	ND	U	50	1	03/14/2006	04/07/2006	DWB10314	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	103	65-135	04/07/2006	
Triacontane - SS	104	65-135	04/07/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009

Surrogate Recovery Summary
Diesel Range Organics / Motor Oil Range Organics

Prep Method: SW3510
Analysis Method: SW8015

Units: Percent

Sample Name	Lab Code	Q	S1	S2
Method Blank	DWB10314		103	104
Laboratory Control Sample	DWB10314LCS		96	96
DAESP03CL	DH009002		92	94
BB3SW104CL	DH009003		105	107
231GW21CL	DH009004		92	94

Surrogate Recovery Control Limits (%)

S1:	Octacosane - SS	65-135
S2:	Triacontane - SS	65-135

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH009
Project:	PRESIDIO	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	03/14/2006
		Date Analyzed:	04/07/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Diesel Range Organics / Motor Oil Range Organics

LCS Sample Lab Control Sample
Lab Code: DWB10314LCS **Units:** ug/L (ppb)
Test Notes:

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike % Rec LCS	CAS Acceptance Limits	Result Notes
Motor Oil (C24-C36)	SW3510	SW8015	300	2500	ND	0	65-135	*
TPH-Diesel	SW3510	SW8015	50	2500	1910	76	65-135	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client:	TREADWELL & ROLLO	**Service Request:**	DH009
Project:	PRESIDIO	**Date Extracted:**	03/14/2006
Sample Matrix:	Water	**Date Analyzed:**	04/07/2006
		Time Analyzed:	02:01

Method Blank Summary
Diesel Range Organics / Motor Oil Range Organics

Extaction Method:	SW3510	**Extraction Lot:**	DWB10314
Analysis Method:	SW8015	**Level:**	

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	DWB10314LCS	G0406011	04/07/2006	02:46
DAESP03CL	DH009002	G0406012	04/07/2006	03:31
BB3SW104CL	DH009003	G0406013	04/07/2006	04:16
231GW21CL	DH009004	G0406014	04/07/2006	05:01

Standards data

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/14/2006

Initial Calibration Summary
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 03/14/2006GCG
Instrument ID: GCG

Level ID	File ID	Level ID	File ID
A	G0314002	F	G0314007
B	G0314003		
C	G0314004		
D	G0314005		
E	G0314006		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Motor Oil (C24-C36)	A	0.100	14488	B	0.500	11892	C	1.000	13738	D	2.500	13670	E	4.000	12373
	F	0.050	19278												
TPH-DIESEL (C10-C24)	A	0.100	35580	B	0.500	22170	C	1.000	24788	D	2.500	23777	E	4.000	20991
	F	0.050	46187												
Triacontane	A	0.100	18792	B	0.150	16553	C	0.250	19484	D	0.300	19539	E	0.350	17454
	F	0.015	19889												
Octacosane	A	0.100	19479	B	0.150	17139	C	0.250	20140	D	0.300	20283	E	0.350	18113
	F	0.015	19973												

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/14/2006

Initial Calibration Summary
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 03/14/2006GCG
Instrument ID: GCG
Mean RSD: 26.50

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
Motor Oil (C24-C36)	TRG	Linear	r	0.998		0.995
TPH-DIESEL (C10-C24)	TRG	Linear	r	0.997		0.995
Triacontane	SUR	AverageRF	% RSD	7.2		20
Octacosane	SUR	AverageRF	% RSD	6.7		20

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/14/2006

Second Source Calibration Verification
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 03/14/2006GCG
Instrument ID: GCG
File ID: G0314008

Column: DB-5

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Motor Oil (C24-C36)	1.000	1.040	14240	13597	NA	3.9	+/- 15.0	Linear	
TPH-DIESEL (C10-C24)	1.000	0.975	28916	22685	NA	-2.5	+/- 15.0	Linear	
Triacontane	0.250	0.256	18618	19109	2.6	NA	+/- 15.0	AverageRF	
Octacosane	0.250	0.257	19188	19752	2.9	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 04/06/2006

Continuing Calibration Verification Summary
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 03/14/2006GCG
Instrument ID: GCG
File ID: G0406002

Column: DB-5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Motor Oil (C24-C36)	1.000	1.132	14240	14760	NA	13.2	+/- 15.0	Linear	
TPH-DIESEL (C10-C24)	1.000	1.149	28916	26388	NA	14.9	+/- 15.0	Linear	
Triacontane	0.250	0.287	18618	21359	14.7	NA	+/- 15.0	AverageRF	
Octacosane	0.250	0.284	19188	21783	13.5	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 04/07/2006

Continuing Calibration Verification Summary
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 03/14/2006GCG
Instrument ID: GCG
File ID: G0406020

Column: DB-5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Motor Oil (C24-C36)	2.500	2.692	14240	13797	NA	7.7	+/- 15.0	Linear	
TPH-DIESEL (C10-C24)	2.500	2.973	28916	26120	NA	18.9	+/- 15.0	Linear	*
Triacontane	0.300	0.343	18618	21318	14.5	NA	+/- 15.0	AverageRF	
Octacosane	0.300	0.350	19188	22391	16.7	NA	+/- 15.0	AverageRF	*

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009

Analysis Run Log
Diesel Range Organics / Motor Oil Range Organics

Analysis Method: SW8015

Instrument ID: GCG
Column: DB-5

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
G0314002	DSTD1	DSTD1	03/14/2006	17:33		03/14/2006	18:02
G0314003	DSTD2	DSTD2	03/14/2006	18:18		03/14/2006	18:47
G0314004	DSTD3	DSTD3	03/14/2006	19:03		03/14/2006	19:32
G0314005	DSTD4	DSTD4	03/14/2006	19:48		03/14/2006	20:17
G0314006	DSTD5	DSTD5	03/14/2006	20:32		03/14/2006	21:01
G0314007	DSTD6	DSTD6	03/14/2006	21:18		03/14/2006	21:47
G0314008	QCALT	QCALT	03/14/2006	22:02		03/14/2006	22:31
G0406002	DSTD3	DSTD3	04/06/2006	20:00		04/06/2006	20:29
G0406010	Method Blank	DWB10314	04/07/2006	02:01		04/07/2006	02:30
G0406011	Laboratory Control Sample	DWB10314LCS	04/07/2006	02:46		04/07/2006	03:15
G0406012	DAESP03CL	DH009002	04/07/2006	03:31		04/07/2006	04:00
G0406013	BB3SW104CL	DH009003	04/07/2006	04:16		04/07/2006	04:45
G0406014	231GW21CL	DH009004	04/07/2006	05:01		04/07/2006	05:30
G0406020	DSTD4	DSTD4	04/07/2006	09:32		04/07/2006	10:01

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Extracted: 03/14/2006

Extraction Prep Log
Diesel Range Organics / Motor Oil Range Organics

Extaction Method: SW3510
Analysis Method: SW8015

Extraction Lot: DWB10314
Level:

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	DWB10314	NA	NA	1.000 L	1	NA	
Laboratory Control Sample	DWB10314LCS	NA	NA	1.000 L	1	NA	
DAESP03CL	DH009002	03/08/2006	03/09/2006	1.040 L	1	NA	
BB3SW104CL	DH009003	03/08/2006	03/09/2006	1.050 L	1	NA	
231GW21CL	DH009004	03/08/2006	03/09/2006	1.050 L	1	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO **Service Request:** DH009

Project: PRESIDIO

Holding Time Summary
Diesel Range Organics / Motor Oil Range Organics

Analysis Method: SW8015

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
DAESP03CL	03/08/2006	03/09/2006	03/14/2006	7	6	N/A	N/A	N/A	04/07/2006	40	24	
BB3SW104CL	03/08/2006	03/09/2006	03/14/2006	7	6	N/A	N/A	N/A	04/07/2006	40	24	
231GW21CL	03/08/2006	03/09/2006	03/14/2006	7	6	N/A	N/A	N/A	04/07/2006	40	24	

Comments:

SUPPORT DOCUMENTATION

Method Detection Limit Study

Columbia Analytical Services
Redding, CA

Analysis Method:	SW8015	**Analyst:**	A. Bell
Extraction Method:	SW3510	**Instrument:**	GCG
Matrix:	WATER	**Description:**	
MDL Effective Date:	10/8/2005	**Department:**	GS

#	Compound	CAS No.	Date	MDL		MG/L	1	2	3	4	5	6	7	8		Mean	Std Dev	MDL Check	True Value	%Rec
1	TPH-Diesel	PHCD	10/5/2005	0.02		0.1	0.063	0.051	0.061	0.068	0.071	0.065	0.068	0.071	###	0.065	0.01	0.02		#DIV/0!
2	TPH-Motor Oil	MOIL	10/5/2005	0.02		0.1	0.120	0.109	0.118	0.118	0.130	0.125	0.132	0.131		0.123	0.01	0.07		#DIV/0!
3	***	***		0.00	*											0.000	0.00			#DIV/0!
4	***	***		0.00	*											0.000	0.00			#DIV/0!
5	***	***		0.00	*											0.000	0.00			#DIV/0!
6	***	***		0.00	*											0.000	0.00			#DIV/0!
7	***	***		0.00	*											0.000	0.00			#DIV/0!

Separatory Funnel Extraction, 3510C

Total Fuel Hydrocarbon Water

Date	3-14-06
Time	12:20

Date sampled	

Batches: DH009 / DH011 / DH014

Client(s): presidio/Tec/Hickam AFB ST 18A / Tec/Hickam

Analytical Method(s)

- [X] TFHD, 8015B
- [ ] DRO by 3520C
- [ ] DRAX, AK102.0
- [ ] Other _____

Solvent Lots

DCM: 45348 3/6 3/13

Spikes

Surrogate: 13-EXS-89C-2
Amt. 1.0 ml Exp: 4/24/06

Spike: 13-EXS-83-B
Amt. 1.0 ml Exp: 5/1/06

Spiked by: CLE Witness: MK

Test Code(s)
8015B

Sample ID	Spikes: Surrogate	Spikes: Spike 1	Amt (1L)	Final KD: H2O bath temp 83 °C; Date & Volume	Reling. Date
	X	X	By: CLE	By: MK 3/24/06	By: MK 3/24/06
DWB1	X		1.0	1.0 ml	
~~DWB2~~					CLE 3/14
DWL1	X	X			
~~DWL2~~					CLE 3/14
DH009002M	X		1.04		8015 & MOIL
-3L	X		1.05		
-4M	X		0.950		
DH011001Q	X		1.04		
-1ms Q	X	X	1.04		
-1msD Q	X	X	1.02		
-2 Q	X		1.04		
-3 Q	X		1.02		
-4 Q	X		0.960		
DH014001S	X		1.0		
-2	X		1.02		
-3	X		0.950		
-4	X		1.02		

CLE 3/14/06

Comments:

Sample DH009002 was very dirty, water got through so had to strain 3 times through sodium sulfate.

* DH009-2, -3, -4 logged in for MOIL - also. DMO LCS's and ms/msD was done on next set on same day. See bench sheet pg. 64. Those DMO LCS/ms/msD's will be for these MOIL samples as well.

- [X] Completed ms/msd
- [ ] Sample limited, no ms/msd, duplicate LCS

063

Peer Review By:

Organic Extractions Dept.
CAS-Redding

Separatory Funnel Extraction, 3510C

Total Fuel Hydrocarbon Water

Date	3/14/06
Time	16:30

Date sampled	

Analytical Method(s)

- [x] TFHD, 8015B
- [ ] DRO by 3520C
- [ ] DRAX, AK102.0
- [x] Other DMO & Stoddard

Solvent Lots

DCM	4534 & 3/6/06 3/14/06

Spikes

Surrogate	13-EXS-89C-1		
Amt.	1.0 ml	Exp:	4/24/06
Spike	13-EXS-78-C		
Amt.	0.25 ml	Exp:	4/23/06
Spiked by	MK	Witness	CLE

CMC

Comments:

8015 spike: 13-EXS-83B
use: 1.0 ml exp: 5/1/06

Stoddard spike: 13-EXS-90C
use 1.0 ml Exp: 6/13/06

Batches: DG996, D0600023, DH005, D0600024

Client(s): AFFC Confirmation, Transwest Geochem, Presidio

Test Code(s): 8015/DMO/MOD

Sample ID	Surrogate (X)	Spike 1 (X)	Amt. (IL) By: CLE	Final KD: H2O bath temp 79 °C; Date & Volume By: CLE 3/16/06	Relinq. Date By: CLE
DWB1	X		1L	1.0 ml	3/16/06
~~DWB2~~					MK 3/14/06
DWL1 DMO	X	X	1L		
DWL2 stoddard	X	X			
L3 stoddard	X	X			
L4 8015	X	X			
L5 8015	X	X			
DG996-1A	X		840		
-2A	X		840		
-3A	X		870		
-4A	X		780		
DMO -4MSA	X	X	780		
DMO -4MSDA	X	X	780		
-5A	X		840		
-6A	X		970		
DH005-1K	X		1.0		
D0600023-4.01	X		0.96		
-5.01	X		0.93		
-6.01	X		0.99		
-7.01	X		0.99		
-8.01	X		0.99		
-9.01	X		0.991		
D0600024-1.01	X		950		
-2.01	X		970		
			~~CMC 3/14/06~~		

[X] Completed ms/msd

[ ] Sample limited, no ms/msd, duplicate LCS

064

Peer Review By:

Organic Extractions Dept.
CAS-Redding

Columbia Analytical Services, Inc.

HP6890 Injection Log

Instrument ID:
GCG

Date(s)
3/14/06

Analytical Method(s)	
☒ 8015B(MOD)	☐ 8015AZ
☐ OA2	☐ TX1005
☐ AK102/103	☐ Other_____

I-Cal Date(s)	3/14/06

Standard(s)	
A	
B	
C	

Analyst(s)	CYC

Target Method(s)	
A	GPSL061308
B	GBMO060314LOW
C	

Target Method	Data Directory	Filename	Sample ID	Matrix	DL Factor	STD	Run OK? Y/N	Rept? Y/N	Comments
A	FG060313	G031300 8	DG9665 1103						
		9	4						
		10	DWB10316						
		11	LCS						
		12	LCSD						
		G03130 13	DG9465001						
		14	WASH						
		15	↓						
		16	DSTD 4						
		17	STOPPED						
		18	↓						
B	FG060314	G03140 01	RT Marker						
		2	DSTD 1				—	—	
		3	2				—	—	
		4	3				—	—	
		5	4				—	—	
		6	5				—	—	
		7	6				—	—	
		8	QC ALT				—	—	
B	FG060315	G03150 01	RT Marker						
		2	DSTD 3				No.	No.	22-GC-29D
		3	↓				↓	↓	↓
		4	↓						
		5	WASH						
		6	↓						
		7	↓						
		8	DSTD 3				—	No. CYC	22-GC-32C

(DW)

Columbia Analytical Services, Inc.

HP6890 Injection Log

Instrument ID:
GCG

Date(s)
3/3/06

Analytical Method(s)			
[X]	8015B(MOD)	[ ]	8015AZ
[ ]	OA2	[ ]	TX1005
[ ]	AK102/103	[ ]	Other_____

I-Cal Date(s)	3/28/06

Standard(s)	
A	22-GC-39A
B	22-GC-39B
C	

Analyst(s)	C. Cushman

Target Method(s)	
A	GDSL060308
B	GFuel_060328
C	

Target Method	Data Directory	Filename	Sample ID	Matrix	DL Factor	STD	Run OK? Y/N	Rept? Y/N	Comments
B	FG060331	G0331 028	WASH						
		029	DSTD3						
		030	DSTD3						
A	FG060404	G0404 001	RT Marker						
		2	DSTD 3			A		No.	
		3	↓			↓		~~No.~~	↑ Surr.
		4	DH041002		50X				Surr. out
		5	DH027001		10X			No.	Re-run @ 1X - Surr. ok.
		6	WASH						
		7	↓						
		8	DSTD4			B		No.	
		9	↓			↓			
		10	WASH						
		11	↓						
	FG060406	G0406 001	RT Marker						
		2	DSTD3						22-GC-39-DC
		3	~~DWB10313~~					No.	↓
		4	DWB10313	W	1X				
		5	↓ LCS						
		6	DH005002 ~~LCSD~~						
		7	3						
		8	DH005005						
		9	6						↑ Surr.
		10	DWB10314						
		11	LCS						
		12	DH009002						
		13	3						

Columbia Analytical Services, Inc.

HP6890 Injection Log

Instrument ID:
GCG

Date(s)
4/6/04

Analytical Method(s)			
☒	8015B(MOD)	☐	8015AZ
☐	OA2	☐	TX1005
☐	AK102/103	☐	Other_____

I-Cal Date(s)	3/14/04

Standard(s)	
A	
B	
C	

Analyst(s)	WC

Target Method(s)	
A	GBM0060314Low
B	GBSL060308
C	

Target Method	Data Directory	Filename	Sample ID	Matrix	DL Factor	STD	Run OK? Y/N	Rept? Y/N	Comments
A	FG060406	G0406014	DH009004	W	1X				
		15	instrument						
		16	error						
		17	WASH						
		18	↓						
		19	DSTD4						22-GC-39-D
		20	↓						↓
		21	WASH						
		22	↓						
		23	DSTD4						
		24	WASH						
		25	↓						
		26	DSTD4						
		27	↓						
		28	WASH						
		29	↓						
		30	↓						
		31	DSTD4						
		32	WASH						
		33	↓						
		34	DSTD4						
		35	WASH						
		36	↓						
B		37	DSTD3						↑ surr.
		38	~~DH014 00K~~					No.	
		39	DH014 00 K1						
		40	B2						

TPH-Gasoline

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: 03/08/2006
Date Received: 03/09/2006

Gasoline Range Organics

Sample Name: DAESP03CL
Lab Code: DH009002
Extraction SW5030
Analysis Method: SW8015

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
TPH-Gasoline (C7C12)	ND	U	50	1	03/17/2006	03/17/2006	NWB10317	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Chlorobenzene	91	65-135	03/17/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: 03/08/2006
Date Received: 03/09/2006

Gasoline Range Organics

Sample Name: BB3SW104CL
Lab Code: DH009003
Extraction SW5030
Analysis Method: SW8015

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
TPH-Gasoline (C7C12)	ND	U	50	1	03/17/2006	03/17/2006	NWB10317	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Chlorobenzene	91	65-135	03/17/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: 03/08/2006
Date Received: 03/09/2006

Gasoline Range Organics

Sample Name: 231GW21CL
Lab Code: DH009004
Extraction SW5030
Analysis Method: SW8015

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
TPH-Gasoline (C7C12)	**3600**		50	1	03/17/2006	03/17/2006	NWB10317	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Chlorobenzene	104	65-135	03/17/2006	

Comments: _____

QC Summary

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: NA
Date Received: NA

Gasoline Range Organics

Sample Name: Method Blank
Lab Code: NWB10317
Extraction SW5030
Analysis Method: SW8015

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
TPH-Gasoline (C7C12)	ND	U	50	1	03/17/2006	03/17/2006	NWB10317	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Chlorobenzene	91	65-135	03/17/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009

Surrogate Recovery Summary
Gasoline Range Organics

Prep Method: SW5030
Analysis Method: SW8015

Units: Percent

Sample Name	Lab Code	Q	S1
Laboratory Control Sample	NWB10317LCS		93
Laboratory Control Sample Duplicate	NWB10317LCSD		97
Method Blank	NWB10317		91
DAESP03CL	DH009002		91
BB3SW104CL	DH009003		91
231GW21CL	DH009004		104

Surrogate Recovery Control Limits (%)

S1: Chlorobenzene 65-135

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH009
Project:	PRESIDIO	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	03/17/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Gasoline Range Organics

LCS Sample	Lab Control Sample	**DMS Sample**	Lab Control Sample Duplicate
Lab Code:	NWB10317LCS	**Units:**	ug/L (ppb)
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
TPH-Gasoline (C7C12)	SW5030	SW8015	50	2000	2080	2050	104	102	75-125	1	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client:	TREADWELL & ROLLO	**Service Request:**	DH009
Project:	PRESIDIO	**Date Extracted:**	03/17/2006
Sample Matrix:	Water	**Date Analyzed:**	03/17/2006
		Time Analyzed:	12:48

Method Blank Summary
Gasoline Range Organics

Extaction Method:	SW5030	**Extraction Lot:**	NWB10317
Analysis Method:	SW8015	**Level:**	

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	NWB10317LCS	NF031708P	03/17/2006	11:58
Laboratory Control Sample Duplicate	NWB10317LCSD	NF031709P	03/17/2006	12:23
DAESP03CL	DH009002	NF031717	03/17/2006	15:44
BB3SW104CL	DH009003	NF031718	03/17/2006	16:09
231GW21CL	DH009004	NF031719	03/17/2006	16:34

Standards Summary

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/17/2006

Initial Calibration Summary
Gasoline Range Organics

ICAL ID: 03/17/2006GCN
Instrument ID: GCN

Column: RTX-1, FID

Level ID	File ID
A	NF031702
B	NF031703
C	NF031704
D	NF031705
E	NF031706

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
TPH-Gasoline (C7C12)	A	50.00	0.405	B	500.0	0.382	C	2000	0.415	D	3000	0.423	E	5000	0.420
Chlorobenzene-ss	A	2.500	0.173	B	25.00	0.138	C	100.0	0.146	D	150.0	0.146	E	250.0	0.151

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/17/2006

Initial Calibration Summary
Gasoline Range Organics

ICAL ID: 03/17/2006GCN
Instrument ID: GCN
Mean RSD: 4.00

Column: RTX-1, FID

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
TPH-Gasoline (C7C12)	TRG	AverageRF	% RSD	4.0		20
Chlorobenzene-ss	SUR	AverageRF	% RSD	8.8		20

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/17/2006

Second Source Calibration Verification
Gasoline Range Organics

ICAL ID: 03/17/2006GCN
Instrument ID: GCN
File ID: NF031707

Column: RTX-1, FID

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
TPH-Gasoline (C7C12)	2000	1962	0.409	0.401	-1.9	NA	+/- 15.0	AverageRF	
Chlorobenzene-ss	N/A	N/A	0.151	0.147	0.0	NA	N/A	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/17/2006

Continuing Calibration Verification Summary
Gasoline Range Organics

ICAL ID: 03/17/2006GCN
Instrument ID: GCN
File ID: NF031716

Column: RTX-1, FID

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
TPH-Gasoline (C7C12)	2000	2123	0.409	0.434	6.1	NA	+/- 15.0	AverageRF	
Chlorobenzene-ss	100.0	95.56	0.151	0.144	-4.4	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/17/2006

Continuing Calibration Verification Summary
Gasoline Range Organics

ICAL ID: **03/17/2006GCN**
Instrument ID: **GCN**
File ID: **NF031722**

Column: RTX-1, FID

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
TPH-Gasoline (C7C12)	3000	3093	0.409	0.421	3.1	NA	+/- 15.0	AverageRF	
Chlorobenzene-ss	150.0	148.7	0.151	0.150	-0.8	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009

Analysis Run Log
Gasoline Range Organics

Analysis Method: SW8015

Instrument ID: GCN
Column: RTX-1, FID

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
NF031702	GSTD1	GSTD1	03/17/2006	09:22		03/17/2006	09:42
NF031703	GSTD2	GSTD2	03/17/2006	09:47		03/17/2006	10:07
NF031704	GSTD3	GSTD3	03/17/2006	10:12		03/17/2006	10:32
NF031705	GSTD4	GSTD4	03/17/2006	10:37		03/17/2006	10:57
NF031706	GSTD5	GSTD5	03/17/2006	11:02		03/17/2006	11:22
NF031707	QCALTSTD	QCALTSTD	03/17/2006	11:27		03/17/2006	11:47
NF031708	Laboratory Control Sample	NWB10317LCS	03/17/2006	11:58		03/17/2006	12:18
NF031709	Laboratory Control Sample Duplicate	NWB10317LCSD	03/17/2006	12:23		03/17/2006	12:43
NF031710	Method Blank	NWB10317	03/17/2006	12:48		03/17/2006	13:08
NF031716	GSTD3	GSTD3	03/17/2006	15:18		03/17/2006	15:38
NF031717	DAESP03CL	DH009002	03/17/2006	15:44		03/17/2006	16:04
NF031718	BB3SW104CL	DH009003	03/17/2006	16:09		03/17/2006	16:29
NF031719	231GW21CL	DH009004	03/17/2006	16:34		03/17/2006	16:54
NF031722	GSTD4	GSTD4	03/17/2006	17:49		03/17/2006	18:09

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Extracted: 03/17/2006

Extraction Prep Log
Gasoline Range Organics

Extaction Method: SW5030
Analysis Method: SW8015

Extraction Lot: NWB10317
Level:

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	NWB10317	NA	NA	5.000 ML	5.000	NA	
Laboratory Control Sample	NWB10317LCS	NA	NA	5.000 ML	5.000	NA	
Laboratory Control Sample Duplicate	NWB10317LCSD	NA	NA	5.000 ML	5.000	NA	
DAESP03CL	DH009002	03/08/2006	03/09/2006	5.000 ML	5.000	NA	
BB3SW104CL	DH009003	03/08/2006	03/09/2006	5.000 ML	5.000	NA	
231GW21CL	DH009004	03/08/2006	03/09/2006	5.000 ML	5.000	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009

Holding Time Summary
Gasoline Range Organics

Analysis Method: SW8015

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
DAESP03CL	03/08/2006	03/09/2006	N/A	N/A	N/A	N/A	N/A	N/A	03/17/2006	14	9	
BB3SW104CL	03/08/2006	03/09/2006	N/A	N/A	N/A	N/A	N/A	N/A	03/17/2006	14	9	
231GW21CL	03/08/2006	03/09/2006	N/A	N/A	N/A	N/A	N/A	N/A	03/17/2006	14	9	

Comments:

SUPPORT DOCUMENTATION

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: SW8015 Matrix: Water

Instrument ID: GCN

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
Petroleum Hydrocarbons C7-C12	05/11/2005	50.00	49.90	49.42	57.96	45.41	60.08	61.85	45.56	62.84	7.3	22

Columbia Analytical Services - Redding

Date
03/17/06

RT Marker Std Prep #3 luft 65C
Internal Standard Std Prep #3 luft —
Surrogate Std Prep #3 luft 57C

Std A Prep #3 luft 65D
Std B Prep #3 luft 65E
Std C Prep #3 luft —
Std D Prep #3 luft —

Analyst: B
ICAL Date: 03/17/06
Method: SW8015

SW 3/21/06

Filename	Laboratory ID	Vial	Matrix	pH	Weight (Grams)	%M	DL Factor	STD	Gas Run OK?	Gas Rept?	A1 Run OK?	A2 Run OK?	Aromatic Rept?	Comments
NF031701	RTMARKER	—	—	—	—	—	—		✓	✓				
2	GSTD1	—	—	—	—	—	—	A	✓	✓				
3	GSTD2	—	—	—	—	—	—	A	✓	✓				
4	GSTD3	—	—	—	—	—	—	A	✓	✓				
5	GSTD4	—	—	—	—	—	—	A	✓	✓				
6	GSTD5	—	—	—	—	—	—	A	✓	✓				
7	QCALTSTD	—	—	—	—	—	—	B	✓	✓				
8	NWB10317LCS	—	W	—	—	—	1X	B	✓	✓				
9	NWB10317LCSD	—	↓	—	—	—	↓	B	✓	✓				
10	NWB10317BLK	—	↓	—	—	—	↓		✓	✓				
11	DH005001	D	↓	<2	—	—	↓		✓	✓				Presidio
12	2	C	↓	↓	—	—	↓		✓	✓				
13	3	C	↓	↓	—	—	↓		✓	✓				
14	5	D	↓	↓	—	—	↓		✓	✓				
15	6	C	↓	↓	—	—	↓		✓	✓				
16	GSTD3	—	—	—	—	—	—	A	✓	✓				
17	DH009002	D	W	<2	—	—	1X		✓	✓				
18	3	A	↓	↓	—	—	↓		✓	✓				
19	4	D	↓	↓	—	—	↓		✓	✓				
20	D0600027-001	04	↓	↓	—	—	↓		✓	✓				
21	-002	01	↓	↓	—	—	↓		✓	✓				
22	GSTD4	—	—	—	—	—	—	A	✓	✓				
23	L0600448-001	01	W	<2	—	—	1X		✓	✓				C6C10STD
24	-002	↓	↓	↓	—	—	↓		✓	✓				
25	-003	↓	↓	↓	—	—	↓		✓	✓				
26	-004	↓	↓	↓	—	—	↓		✓	✓				
27	-005	↓	↓	↓	—	—	↓		✓	✓				
28	-006	↓	↓	↓	—	—	↓		✓	✓				

HPLC POLYNUCLEAR AROMATIC HYDROCARBONS

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: 03/08/2006
Date Received: 03/09/2006

Polynuclear Aromatic Hydrocarbons

Sample Name: DAESP03CL
Lab Code: DH009002
Extraction SW3520
Analysis Method: SW8310

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	ND	U	5.0	1	03/14/2006	03/25/2006	NWB10314	
Fluorene	ND	U	1.0	1	03/14/2006	03/25/2006	NWB10314	
Phenanthrene	ND	U	1.0	1	03/14/2006	03/25/2006	NWB10314	
Anthracene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Fluoranthene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Pyrene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Benzo(a)anthracene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Chrysene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Benzo(b)fluoranthene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Benzo(k)fluoranthene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Benzo(a)pyrene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Dibenzo(a,h)anthracene	ND	U	0.50	1	03/14/2006	03/25/2006	NWB10314	
Benzo(g,h,i)perylene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Indeno(1,2,3-c,d)pyrene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Acenaphthylene	ND	U	2.0	1	03/14/2006	03/25/2006	NWB10314	
Acenaphthene	ND	U	5.0	1	03/14/2006	03/25/2006	NWB10314	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Terphenyl-d14 - SS	67	65-135	03/25/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: NA
Date Received: NA

Polynuclear Aromatic Hydrocarbons

Sample Name: Method Blank
Lab Code: NWB10314
Extraction SW3520
Analysis Method: SW8310

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	ND	U	5.0	1	03/14/2006	03/25/2006	NWB10314	
Fluorene	ND	U	1.0	1	03/14/2006	03/25/2006	NWB10314	
Phenanthrene	ND	U	1.0	1	03/14/2006	03/25/2006	NWB10314	
Anthracene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Fluoranthene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Pyrene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Benzo(a)anthracene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Chrysene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Benzo(b)fluoranthene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Benzo(k)fluoranthene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Benzo(a)pyrene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Dibenzo(a,h)anthracene	ND	U	0.50	1	03/14/2006	03/25/2006	NWB10314	
Benzo(g,h,i)perylene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Indeno(1,2,3-c,d)pyrene	ND	U	0.20	1	03/14/2006	03/25/2006	NWB10314	
Acenaphthylene	ND	U	2.0	1	03/14/2006	03/25/2006	NWB10314	
Acenaphthene	ND	U	5.0	1	03/14/2006	03/25/2006	NWB10314	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Terphenyl-d14 - SS	87	65-135	03/25/2006	

Comments: _____

QC Summary

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009

Surrogate Recovery Summary
Polynuclear Aromatic Hydrocarbons

Prep Method: SW3520
Analysis Method: SW8310

Units: Percent

Sample Name	Lab Code	Q	S1
Laboratory Control Sample	NWB10314LCS		78
Laboratory Control Sample Duplicate	NWB10314LCSD		78
Method Blank	NWB10314		87
DAESP03CL	DH009002		67

Surrogate Recovery Control Limits (%)

S1: Terphenyl-d14 - SS 65-135

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH009
Project:	PRESIDIO	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	03/14/2006
		Date Analyzed:	03/25/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Polynuclear Aromatic Hydrocarbons

LCS Sample	Lab Control Sample	**DMS Sample**	Lab Control Sample Duplicate
Lab Code:	NWB10314LCS	**Units:**	ug/L (ppb)
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Naphthalene	SW3520	SW8310	5.0	20.00	13.82	14.10	69	71	50-135	2	
Fluorene	SW3520	SW8310	1.0	4.000	3.754	3.768	94	94	65-135	0	
Pyrene	SW3520	SW8310	0.20	2.000	1.559	1.539	78	77	65-135	1	
Benzo(a)pyrene	SW3520	SW8310	0.20	2.000	1.323	1.338	66	67	65-135	1	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client:	TREADWELL & ROLLO	**Service Request:**	DH009
Project:	PRESIDIO	**Date Extracted:**	03/14/2006
Sample Matrix:	Water	**Date Analyzed:**	03/25/2006
		Time Analyzed:	11:54

Method Blank Summary
Polynuclear Aromatic Hydrocarbons

Extaction Method:	SW3520	**Extraction Lot:**	NWB10314
Analysis Method:	SW8310	**Level:**	

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	NWB10314LCS	I0325004	03/25/2006	10:53
Laboratory Control Sample Duplicate	NWB10314LCSD	I0325005	03/25/2006	11:24
DAESP03CL	DH009002	I0325009	03/25/2006	13:26

Standards data

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/24/2006

Initial Calibration Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI

Column: FL

Level ID	File ID
A	I0324011
B	I0324012
C	I0324013
D	I0324014
E	I0324015

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Naphthalene	A	1.000	71.54	B	10.00	86.01	C	20.00	91.96	D	30.00	89.40	E	40.00	85.52
Fluorene	A	0.200	157.7	B	2.000	206.8	C	4.000	207.7	D	6.000	208.2	E	8.000	186.5
Phenanthrene	A	0.100	900.0	B	1.000	1061	C	2.000	1124	D	3.000	1098	E	4.000	1047
Anthracene	A	0.100	890.5	B	1.000	1035	C	2.000	1096	D	3.000	1045	E	4.000	984.6
Fluoranthene	A	0.100	190.3	B	1.000	272.6	C	2.000	299.8	D	3.000	299.0	E	4.000	289.8
Pyrene	A	0.100	723.5	B	1.000	887.6	C	2.000	958.8	D	3.000	939.8	E	4.000	900.3
Benzo(a)anthracene	A	0.100	254.6	B	1.000	377.1	C	2.000	411.3	D	3.000	404.9	E	4.000	391.0
Chrysene	A	0.100	817.9	B	1.000	984.2	C	2.000	1048	D	3.000	1023	E	4.000	975.6
Benzo(b)fluoranthene	A	0.100	296.4	B	1.000	398.6	C	2.000	436.3	D	3.000	435.8	E	4.000	420.6
Benzo(k)fluoranthene	A	0.100	2308	B	1.000	2511	C	2.000	2679	D	3.000	2597	E	4.000	2428
Benzo(a)pyrene	A	0.100	2561	B	1.000	2771	C	2.000	2984	D	3.000	2911	E	4.000	2609
Dibenzo(a,h)anthracene	A	0.200	1438	B	2.000	1560	C	4.000	1637	D	6.000	1582	E	8.000	1378
Benzo(g,h,i)perylene	A	0.200	917.3	B	2.000	1080	C	4.000	1160	D	6.000	1112	E	8.000	1090
Indeno(1,2,3-c,d)pyrene	A	0.100	1350	B	1.000	1625	C	2.000	1735	D	3.000	1677	E	4.000	1652
Acenaphthene	A	1.000	223.2	B	10.00	233.7	C	20.00	244.0	D	30.00	235.4	E	40.00	211.8
Terphenyl-d14 - SS	A	0.250	295.1	B	2.500	359.9	C	5.000	386.0	D	7.500	376.4	E	10.00	361.6

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/24/2006

Initial Calibration Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI
Mean RSD: 9.91

Column: FL

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
Naphthalene	TRG	AverageRF	% RSD	9.3		20.0
Fluorene	TRG	AverageRF	% RSD	11.3		20.0
Phenanthrene	TRG	AverageRF	% RSD	8.3		20.0
Anthracene	TRG	AverageRF	% RSD	7.7		20.0
Fluoranthene	TRG	Linear	r	0.999		0.995
Pyrene	TRG	AverageRF	% RSD	10.6		20.0
Benzo(a)anthracene	TRG	AverageRF	% RSD	17.6		20.0
Chrysene	TRG	AverageRF	% RSD	9.3		20.0
Benzo(b)fluoranthene	TRG	AverageRF	% RSD	14.7		20.0
Benzo(k)fluoranthene	TRG	AverageRF	% RSD	5.8		20.0
Benzo(a)pyrene	TRG	AverageRF	% RSD	6.7		20.0
Dibenzo(a,h)anthracene	TRG	AverageRF	% RSD	7.1		20.0
Benzo(g,h,i)perylene	TRG	AverageRF	% RSD	8.6		20.0
Indeno(1,2,3-c,d)pyrene	TRG	AverageRF	% RSD	9.3		20.0
Acenaphthene	TRG	AverageRF	% RSD	5.4		20.0
Terphenyl-d14 - SS	SUR	AverageRF	% RSD	10.0		20.0

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/24/2006

Initial Calibration Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI

Column: UV

Level ID	File ID
A	I0324011
B	I0324012
C	I0324013
D	I0324014
E	I0324015

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Naphthalene	A	1.000	221.3	B	10.00	220.5	C	20.00	235.6	D	30.00	226.6	E	40.00	218.0
Fluorene	A	0.200	947.5	B	2.000	1027	C	4.000	1101	D	6.000	1051	E	8.000	1006
Phenanthrene	A	0.100	2438	B	1.000	2480	C	2.000	2610	D	3.000	2546	E	4.000	2450
Anthracene	A	0.100	5075	B	1.000	4963	C	2.000	5152	D	3.000	4895	E	4.000	4586
Fluoranthene	A	0.100	550.9	B	1.000	601.8	C	2.000	632.2	D	3.000	620.2	E	4.000	597.0
Pyrene	A	0.100	610.3	B	1.000	558.7	C	2.000	599.7	D	3.000	548.0	E	4.000	536.3
Benzo(a)anthracene	A	0.100	1535	B	1.000	1465	C	2.000	1561	D	3.000	1525	E	4.000	1475
Chrysene	A	0.100	2382	B	1.000	2321	C	2.000	2487	D	3.000	2410	E	4.000	2341
Benzo(b)fluoranthene	A	0.100	1699	B	1.000	1660	C	2.000	1757	D	3.000	1739	E	4.000	1678
Benzo(k)fluoranthene	A	0.100	1272	B	1.000	1168	C	2.000	1211	D	3.000	1186	E	4.000	1142
Benzo(a)pyrene	A	0.100	1478	B	1.000	1542	C	2.000	1620	D	3.000	1601	E	4.000	1554
Dibenzo(a,h)anthracene	A	0.200	444.7	B	2.000	395.3	C	4.000	421.7	D	6.000	411.1	E	8.000	394.5
Benzo(g,h,i)perylene	A	0.200	650.0	B	2.000	610.4	C	4.000	648.0	D	6.000	632.2	E	8.000	608.8
Indeno(1,2,3-c,d)pyrene	A	0.100	1789	B	1.000	1366	C	2.000	1446	D	3.000	1422	E	4.000	1353
Acenaphthylene	A	2.000	153.7	B	20.00	150.9	C	40.00	159.2	D	60.00	153.4	E	80.00	147.1
Acenaphthene	A	1.000	144.0	B	10.00	144.0	C	20.00	150.7	D	30.00	142.7	E	40.00	135.6
Terphenyl-d14 - SS	A	0.250	631.5	B	2.500	599.5	C	5.000	636.7	D	7.500	619.2	E	10.00	603.0

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/24/2006

Initial Calibration Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI
Mean RSD: 4.33

Column: UV

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
Naphthalene	TRG	AverageRF	% RSD	3.1		20.0
Fluorene	TRG	AverageRF	% RSD	5.5		20.0
Phenanthrene	TRG	AverageRF	% RSD	2.9		20.0
Anthracene	TRG	AverageRF	% RSD	4.4		20.0
Fluoranthene	TRG	AverageRF	% RSD	5.2		20.0
Pyrene	TRG	AverageRF	% RSD	5.7		20.0
Benzo(a)anthracene	TRG	AverageRF	% RSD	2.7		20.0
Chrysene	TRG	AverageRF	% RSD	2.7		20.0
Benzo(b)fluoranthene	TRG	AverageRF	% RSD	2.4		20.0
Benzo(k)fluoranthene	TRG	AverageRF	% RSD	4.1		20.0
Benzo(a)pyrene	TRG	AverageRF	% RSD	3.6		20.0
Dibenzo(a,h)anthracene	TRG	AverageRF	% RSD	5.0		20.0
Benzo(g,h,i)perylene	TRG	AverageRF	% RSD	3.1		20.0
Indeno(1,2,3-c,d)pyrene	TRG	AverageRF	% RSD	12.2		20.0
Acenaphthylene	TRG	AverageRF	% RSD	2.9		20.0
Acenaphthene	TRG	AverageRF	% RSD	3.7		20.0
Terphenyl-d14 - SS	SUR	AverageRF	% RSD	2.7		20.0

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/24/2006

Second Source Calibration Verification
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI
File ID: I0324016

Column: FL

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Naphthalene	20.00	20.58	84.88	87.34	2.9	NA	+/- 15.0	AverageRF	
Fluorene	4.000	4.276	193.4	206.7	6.9	NA	+/- 15.0	AverageRF	*
Phenanthrene	2.000	2.029	1046	1062	1.5	NA	+/- 15.0	AverageRF	
Anthracene	2.000	2.136	1010	1079	6.8	NA	+/- 15.0	AverageRF	
Fluoranthene	2.000	2.124	270.3	310.1	NA	6.2	+/- 15.0	Linear	
Pyrene	2.000	2.088	882.0	920.7	4.4	NA	+/- 15.0	AverageRF	
Benzo(a)anthracene	2.000	2.204	367.8	405.3	10.2	NA	+/- 15.0	AverageRF	
Chrysene	2.000	2.169	969.7	1052	8.4	NA	+/- 15.0	AverageRF	
Benzo(b)fluoranthene	2.000	2.238	397.5	444.7	11.9	NA	+/- 15.0	AverageRF	
Benzo(k)fluoranthene	2.000	2.090	2504	2617	4.5	NA	+/- 15.0	AverageRF	
Benzo(a)pyrene	2.000	2.124	2767	2939	6.2	NA	+/- 15.0	AverageRF	
Dibenzo(a,h)anthracene	4.000	3.989	1519	1515	-0.3	NA	+/- 15.0	AverageRF	
Benzo(g,h,i)perylene	4.000	4.121	1072	1104	3.0	NA	+/- 15.0	AverageRF	
Indeno(1,2,3-c,d)pyrene	2.000	2.151	1608	1729	7.5	NA	+/- 15.0	AverageRF	
Acenaphthene	20.00	20.97	229.6	240.8	4.9	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/24/2006

Second Source Calibration Verification
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI
File ID: I0324016

Column: UV

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Naphthalene	20.00	19.90	224.4	223.3	-0.5	NA	+/- 15.0	AverageRF	
Fluorene	4.000	4.041	1026	1037	1.0	NA	+/- 15.0	AverageRF	
Phenanthrene	2.000	1.959	2505	2453	-2.0	NA	+/- 15.0	AverageRF	
Anthracene	2.000	2.060	4934	5082	3.0	NA	+/- 15.0	AverageRF	
Fluoranthene	2.000	2.099	600.4	630.0	4.9	NA	+/- 15.0	AverageRF	
Pyrene	2.000	1.909	570.6	544.6	-4.6	NA	+/- 15.0	AverageRF	
Benzo(a)anthracene	2.000	2.038	1512	1541	1.9	NA	+/- 15.0	AverageRF	
Chrysene	2.000	2.069	2388	2471	3.5	NA	+/- 15.0	AverageRF	
Benzo(b)fluoranthene	2.000	2.082	1707	1777	4.1	NA	+/- 15.0	AverageRF	
Benzo(k)fluoranthene	2.000	1.985	1196	1187	-0.7	NA	+/- 15.0	AverageRF	
Benzo(a)pyrene	2.000	2.102	1559	1639	5.1	NA	+/- 15.0	AverageRF	
Dibenzo(a,h)anthracene	4.000	3.724	413.5	385.0	-6.9	NA	+/- 15.0	AverageRF	
Benzo(g,h,i)perylene	4.000	3.966	629.9	624.4	-0.9	NA	+/- 15.0	AverageRF	
Indeno(1,2,3-c,d)pyrene	2.000	1.984	1475	1463	-0.8	NA	+/- 15.0	AverageRF	
Acenaphthylene	40.00	39.54	152.9	151.1	-1.2	NA	+/- 15.0	AverageRF	
Acenaphthene	20.00	19.47	143.4	139.6	-2.7	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/25/2006

Continuing Calibration Verification Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI
File ID: I0325003

Column: FL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Naphthalene	20.00	21.32	84.88	90.47	6.6	NA	+/- 15.0	AverageRF	
Fluorene	4.000	5.334	193.4	257.9	33.4	NA	+/- 15.0	AverageRF	*
Phenanthrene	2.000	2.189	1046	1145	9.4	NA	+/- 15.0	AverageRF	
Anthracene	2.000	2.185	1010	1104	9.3	NA	+/- 15.0	AverageRF	
Fluoranthene	2.000	2.053	270.3	299.6	NA	2.6	+/- 15.0	Linear	
Pyrene	2.000	2.077	882.0	915.9	3.8	NA	+/- 15.0	AverageRF	
Benzo(a)anthracene	2.000	2.251	367.8	414.0	12.6	NA	+/- 15.0	AverageRF	
Chrysene	2.000	2.176	969.7	1055	8.8	NA	+/- 15.0	AverageRF	
Benzo(b)fluoranthene	2.000	2.210	397.5	439.4	10.5	NA	+/- 15.0	AverageRF	
Benzo(k)fluoranthene	2.000	2.125	2504	2662	6.3	NA	+/- 15.0	AverageRF	
Benzo(a)pyrene	2.000	2.090	2767	2892	4.5	NA	+/- 15.0	AverageRF	
Dibenzo(a,h)anthracene	4.000	4.282	1519	1626	7.0	NA	+/- 15.0	AverageRF	
Benzo(g,h,i)perylene	4.000	4.220	1072	1131	5.5	NA	+/- 15.0	AverageRF	
Indeno(1,2,3-c,d)pyrene	2.000	2.148	1608	1727	7.4	NA	+/- 15.0	AverageRF	
Acenaphthene	20.00	21.89	229.6	251.3	9.4	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/25/2006

Continuing Calibration Verification Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI
File ID: I0325003

Column: UV

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Naphthalene	20.00	20.78	224.4	233.2	3.9	NA	+/- 15.0	AverageRF	
Fluorene	4.000	4.296	1026	1102	7.4	NA	+/- 15.0	AverageRF	
Phenanthrene	2.000	2.096	2505	2625	4.8	NA	+/- 15.0	AverageRF	
Anthracene	2.000	2.094	4934	5166	4.7	NA	+/- 15.0	AverageRF	
Fluoranthene	2.000	2.164	600.4	649.6	8.2	NA	+/- 15.0	AverageRF	
Pyrene	2.000	1.978	570.6	564.3	-1.1	NA	+/- 15.0	AverageRF	
Benzo(a)anthracene	2.000	2.097	1512	1586	4.9	NA	+/- 15.0	AverageRF	
Chrysene	2.000	2.104	2388	2513	5.2	NA	+/- 15.0	AverageRF	
Benzo(b)fluoranthene	2.000	2.070	1707	1766	3.5	NA	+/- 15.0	AverageRF	
Benzo(k)fluoranthene	2.000	2.024	1196	1210	1.2	NA	+/- 15.0	AverageRF	
Benzo(a)pyrene	2.000	2.044	1559	1593	2.2	NA	+/- 15.0	AverageRF	
Dibenzo(a,h)anthracene	4.000	4.101	413.5	423.9	2.5	NA	+/- 15.0	AverageRF	
Benzo(g,h,i)perylene	4.000	4.104	629.9	646.2	2.6	NA	+/- 15.0	AverageRF	
Indeno(1,2,3-c,d)pyrene	2.000	1.976	1475	1458	-1.2	NA	+/- 15.0	AverageRF	
Acenaphthylene	40.00	41.88	152.9	160.1	4.7	NA	+/- 15.0	AverageRF	
Acenaphthene	20.00	21.02	143.4	150.7	5.1	NA	+/- 15.0	AverageRF	

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/25/2006

Continuing Calibration Verification Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI
File ID: I0325012

Column: FL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Naphthalene	30.00	31.26	84.88	88.46	4.2	NA	+/- 15.0	AverageRF	
Fluorene	6.000	7.992	193.4	257.6	33.2	NA	+/- 15.0	AverageRF	*
Phenanthrene	3.000	3.194	1046	1114	6.5	NA	+/- 15.0	AverageRF	
Anthracene	3.000	3.091	1010	1041	3.0	NA	+/- 15.0	AverageRF	
Fluoranthene	3.000	2.672	270.3	261.0	NA	-10.9	+/- 15.0	Linear	
Pyrene	3.000	2.992	882.0	879.6	-0.3	NA	+/- 15.0	AverageRF	
Benzo(a)anthracene	3.000	3.332	367.8	408.5	11.1	NA	+/- 15.0	AverageRF	
Chrysene	3.000	3.192	969.7	1032	6.4	NA	+/- 15.0	AverageRF	
Benzo(b)fluoranthene	3.000	3.299	397.5	437.2	10.0	NA	+/- 15.0	AverageRF	
Benzo(k)fluoranthene	3.000	3.142	2504	2623	4.8	NA	+/- 15.0	AverageRF	
Benzo(a)pyrene	3.000	3.143	2767	2899	4.8	NA	+/- 15.0	AverageRF	
Dibenzo(a,h)anthracene	6.000	6.275	1519	1589	4.6	NA	+/- 15.0	AverageRF	
Benzo(g,h,i)perylene	6.000	5.962	1072	1065	-0.6	NA	+/- 15.0	AverageRF	
Indeno(1,2,3-c,d)pyrene	3.000	3.027	1608	1622	0.9	NA	+/- 15.0	AverageRF	
Acenaphthene	30.00	31.85	229.6	243.8	6.2	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/25/2006

Continuing Calibration Verification Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 03/24/2006LCI
Instrument ID: LCI
File ID: I0325012

Column: UV

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Naphthalene	30.00	30.79	224.4	230.3	2.6	NA	+/- 15.0	AverageRF	
Fluorene	6.000	6.182	1026	1057	3.0	NA	+/- 15.0	AverageRF	
Phenanthrene	3.000	3.104	2505	2591	3.5	NA	+/- 15.0	AverageRF	
Anthracene	3.000	3.029	4934	4982	1.0	NA	+/- 15.0	AverageRF	
Fluoranthene	3.000	3.081	600.4	616.6	2.7	NA	+/- 15.0	AverageRF	
Pyrene	3.000	2.891	570.6	549.9	-3.6	NA	+/- 15.0	AverageRF	
Benzo(a)anthracene	3.000	3.088	1512	1557	2.9	NA	+/- 15.0	AverageRF	
Chrysene	3.000	3.086	2388	2456	2.9	NA	+/- 15.0	AverageRF	
Benzo(b)fluoranthene	3.000	3.086	1707	1755	2.8	NA	+/- 15.0	AverageRF	
Benzo(k)fluoranthene	3.000	2.967	1196	1183	-1.1	NA	+/- 15.0	AverageRF	
Benzo(a)pyrene	3.000	3.035	1559	1578	1.2	NA	+/- 15.0	AverageRF	
Dibenzo(a,h)anthracene	6.000	5.992	413.5	412.9	-0.1	NA	+/- 15.0	AverageRF	
Benzo(g,h,i)perylene	6.000	6.087	629.9	639.0	1.4	NA	+/- 15.0	AverageRF	
Indeno(1,2,3-c,d)pyrene	3.000	3.010	1475	1480	0.3	NA	+/- 15.0	AverageRF	
Acenaphthylene	60.00	61.11	152.9	155.7	1.8	NA	+/- 15.0	AverageRF	
Acenaphthene	30.00	30.67	143.4	146.6	2.2	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO **Service Request:** DH009
Project: PRESIDIO

Analysis Run Log
Polynuclear Aromatic Hydrocarbons

Analysis Method: SW8310 **Instrument ID:** LCI
Column: FL

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
I0324011	FSTD1	FSTD1	03/24/2006	14:01		03/24/2006	14:31
I0324012	FSTD2	FSTD2	03/24/2006	14:31		03/24/2006	15:01
I0324013	FSTD3	FSTD3	03/24/2006	15:02		03/24/2006	15:32
I0324014	FSTD4	FSTD4	03/24/2006	15:33		03/24/2006	16:03
I0324015	FSTD5	FSTD5	03/24/2006	16:03		03/24/2006	16:33
I0324016	QCALTSTD	FSTD3 ICVS	03/24/2006	16:34		03/24/2006	17:04
I0325003	KSTD3	KSTD3	03/25/2006	10:02		03/25/2006	10:32
I0325004	Laboratory Control Sample	NWB10314LCS	03/25/2006	10:53		03/25/2006	11:23
I0325005	Laboratory Control Sample Duplicate	NWB10314LCSD	03/25/2006	11:24		03/25/2006	11:54
I0325006	Method Blank	NWB10314	03/25/2006	11:54		03/25/2006	12:24
I0325009	DAESP03CL	DH009002	03/25/2006	13:26		03/25/2006	13:56
I0325012	KSTD4	KSTD4	03/25/2006	15:40		03/25/2006	16:10

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Extracted: 03/14/2006

Extraction Prep Log
Polynuclear Aromatic Hydrocarbons

Extaction Method: SW3520
Analysis Method: SW8310

Extraction Lot: NWB10314
Level:

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	NWB10314	NA	NA	1.000 L	1	NA	
Laboratory Control Sample	NWB10314LCS	NA	NA	1.000 L	1	NA	
Laboratory Control Sample Duplicate	NWB10314LCSD	NA	NA	1.000 L	1	NA	
DAESP03CL	DH009002	03/08/2006	03/09/2006	1.030 L	1	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO **Service Request:** DH009
Project: PRESIDIO

Holding Time Summary
Polynuclear Aromatic Hydrocarbons

Analysis Method: SW8310

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
DAESP03CL	03/08/2006	03/09/2006	03/14/2006	7	6	N/A	N/A	N/A	03/25/2006	40	11	

Comments:

SUPPORT DOCUMENTATION

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: SW8310 Matrix: Water

Instrument ID: LCI

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
Anthracene	08/03/2005	0.01	0.0030	0.0034	0.0037	0.0056	0.0034	0.0035	0.0048	0.0027	0.0010	0.0029
Pyrene	08/03/2005	0.01	0.0044	0.0038	0.0058	0.0070	0.0050	0.0095	0.0075	0.0034	0.0021	0.0062
Benzo(g,h,i)perylene	08/03/2005	0.02	0.0076	0.0049	0.0096	0.0103	0.0098	0.0115	0.0121	0.0075	0.0024	0.0071
Indeno(1,2,3-cd)pyrene	08/03/2005	0.01	0.0039	0.0028	0.0054	0.0049	0.0049	0.0062	0.0069	0.0036	0.0013	0.0040
Benzo(b)fluoranthene	08/03/2005	0.01	0.0070	0.0049	0.0068	0.0087	0.0056	0.0090	0.0077	0.0048	0.0016	0.0049
Fluoranthene	08/03/2005	0.01	0.0047	0.0039	0.0058	0.0054	0.0054	0.0076	0.0068	0.0037	0.0013	0.0040
Benzo(k)fluoranthene	08/03/2005	0.01	0.0058	0.0037	0.0061	0.0061	0.0058	0.0055	0.0071	0.0049	0.0010	0.0030
Acenaphthylene	08/03/2005	0.20	0.1214	0.1827	0.1758	0.1889	0.1609	0.1606	0.2152	0.1444	0.029	0.086
Chrysene	08/03/2005	0.01	0.0043	0.0032	0.0049	0.0044	0.0043	0.0075	0.0055	0.0038	0.0013	0.0040
Benzo(a)pyrene	08/03/2005	0.01	0.0038	0.0039	0.0048	0.0093	0.0042	0.0038	0.0056	0.0037	0.0019	0.0057
Dibenzo(a,h)anthracene	08/03/2005	0.02	0.0125	0.0078	0.0147	0.0153	0.0153	0.0127	0.0162	0.0118	0.0027	0.0082
Benzo(a)anthracene	08/03/2005	0.01	0.0022	0.0014	0.0027	0.0032	0.0018	0.0061	0.0038	0.0013	0.0016	0.0048
Acenaphthene	08/03/2005	0.10	0.0442	0.0488	0.0485	0.0487	0.0464	0.0465	0.0578	0.0363	0.0060	0.018
Phenanthrene	08/03/2005	0.01	0.0054	0.0054	0.0060	0.0069	0.0055	0.0064	0.0076	0.0045	0.0010	0.0029
Fluorene	08/03/2005	0.02	0.0068	0.0082	0.0077	0.0089	0.0081	0.0073	0.0096	0.0047	0.0015	0.0045
Naphthalene	08/03/2005	0.10	0.0377	0.0412	0.0430	0.0413	0.0435	0.0393	0.0553	0.0333	0.0063	0.019

Liquid-Liquid Extraction, 3520C **Polynuclear Aromatic Hydrocarbon Water**

Date	3-14-06
Time	15:25

Batches: D1t005, D1t009, D0600027

Client(s): Presidio, Trandwell & Rollo

Analytical Method

~~8330~~ 8310

Solvent Lots

DCM	45348 3/6 3/14
Cylcohexane	
Pentane	
Acetonitrile	45084 12/1/5 2/15/6

Spikes

Surrogate: 13-EXS-90B

Amt. 1.0 ml Exp: 6/13/06

Spike: 13-EXS-87A

Amt. 1.0 ml Exp: 5/16/06

Spiked by: JP Witness: CC

Cleanup

☐ Silica Gel, 3630C

By/date ____ Lot ____

☒ No cleanup

Comments:

Test Code(s)
8310

Sample ID	Spikes: Surrogate	Spikes: Spike	Amt (1L) By: JP	Final KD: H2O bath temp 95(ACN) °C; Date & Volume By: MP 3/14/6	Relinq. Date By: MP 3/24/6
NWB1	X		1.0	1.0 ml	
~~NWB2~~					
NWL1	X	X	1.0		
NWL2	X	X	1.0		
D1H005-5R	X		1.05		
↓ -6R	X		1.04		
D1t009-2W	X		1.03		
D0600027-2.10	X		1.02		

JP 3-14-06

☐ Completed ms/msd

☒ Sample limited, no ms/msd, duplicate LCS

065

Peer Review By:

Organic Extractions Dept.
CAS-Redding

Columbia Analytical Services, Inc.

HP1050 Injection Log

Instrument ID:
LCI

Standard(s)	
A	1-HP-40F
B	
C	

Analytical Method	
X	8310
	8315A
	8330
	Other

Target Method(s)	
A	B30_0324PL/UV.m
B	
C	
D	

Date
3/24/06

ICAL Date(s)	3/24/06

Analyst	mge

Page: 5

Target Method	Data Directory	Filename	Sample ID	F	Matrix	DL Factor	STD	Use?	Comments
A	I060324	I0324 001-010	WASH	—	STD	1x		—	run multiple washes to cycle instrument
		011	KSTD1	—				Y	1-HP-48C
		012	KSTD2	—					-48D
		013	KSTD3	—					-48F
		014	KSTD4	—					-48F
		015	KSTD5	—					-48A
		016	KSTD3 ICVS	—					(passed)
		017	NWB103/4LCS	—	WA			N	
		018	LCSD	—					
		019	NWB10314	—					
		020	DH005005						
		021	006						
		022	DH009002						
		023	D06000027-002						
		024	WASH	—	—				
		025	KSTD4	—	STD		A		Wavelength settings OFF - Rerun sequence

Columbia Analytical Services, Inc.

HP1050 Injection Log

Instrument ID:
LCI

Standard(s)	
A	1-HP-48F
B	-48F
C	

Analytical Method	
X	8310
	8315A
	8330
	Other _____

Target Method(s)	
A	8310 - 0324FL/UV.m
B	
C	
D	

Date
3/25/06

ICAL Date(s)	3/24/06

Analyst	mBc

Page: 6

Target Method	Data Directory	Filename	Sample ID	F	Matrix	DL Factor	STD	Use?	Comments
A	I060325	I0325 001	Primer	—	STD	1X		—	Condition instrument; adj. wavelength settings
		002	Wash	—				—	
		003	KSTD3	—			A	Y	Fluorene ↑ FL, OK on UV : Report from UV
		004	NWB10314LCS	—	WA				
		005	LCSD	—					
		006	NWB10314	—					
		007	DH005005	R					
		008	006	R					
		009	DH009002	U					
		010	D0600027-002	.10				↓	
		011	WASH	—	—			—	
		012	KSTD4	—	STD		B	Y	Fluorene ↑ FL, OK on UV : Mhits in samples

GC ORGANOCHLORINE PCBS

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: 03/08/2006
Date Received: 03/09/2006

PolyChlorinated Biphenyls (PCBs)

Sample Name: DAESP03CL
Lab Code: DH009002
Extraction SW3520
Analysis Method: SW8082

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor-1254	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1248	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1016	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1221	ND	U	2.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1232	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1242	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1260	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	14	65-135	03/24/2006	*
Tetrachloro-m-xylene - SS	67	65-135	03/24/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: 03/08/2006
Date Received: 03/09/2006

PolyChlorinated Biphenyls (PCBs)

Sample Name: DAESP03CLRE
Lab Code: DH009002RE
Extraction SW3520
Analysis Method: SW8082

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor-1254	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1248	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1016	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1221	ND	U	2.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1232	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1242	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1260	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	13	65-135	03/31/2006	*
Tetrachloro-m-xylene - SS	74	65-135	03/31/2006	

Comments: _____

QC Summary

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: NA
Date Received: NA

PolyChlorinated Biphenyls (PCBs)

Sample Name: Method Blank
Lab Code: PWB10313
Extraction SW3520
Analysis Method: SW8082

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor-1254	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1248	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1016	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1221	ND	U	2.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1232	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1242	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	
Aroclor-1260	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	76	65-135	03/24/2006	
Tetrachloro-m-xylene - SS	97	65-135	03/24/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: NA
Date Received: NA

PolyChlorinated Biphenyls (PCBs)

Sample Name: Method Blank
Lab Code: PWB10329
Extraction SW3520
Analysis Method: SW8082

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor-1254	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1248	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1016	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1221	ND	U	2.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1232	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1242	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
Aroclor-1260	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	82	65-135	03/31/2006	
Tetrachloro-m-xylene - SS	89	65-135	03/31/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009

Surrogate Recovery Summary
PolyChlorinated Biphenyls (PCBs)

Prep Method: SW3520
Analysis Method: SW8082

Units: Percent

Sample Name	Lab Code	Q	S1	S2
Method Blank	PWB10313		76	97
DAESP03CL	DH009002	*	14	67
Laboratory Control Sample	PWB10329LCS		76	87
Laboratory Control Sample Duplicate	PWB10329LCSD		68	89
Method Blank	PWB10329		82	89
DAESP03CLRE	DH009002RE	*	13	74
Laboratory Control Sample	PWB10313LCS	*	60	71
Laboratory Control Sample Duplicate	PWB10313LCSD		66	83

Surrogate Recovery Control Limits (%)

S1:	Decachlorobiphenyl - SS	65-135
S2:	Tetrachloro-m-xylene - SS	65-135

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH009
Project:	PRESIDIO	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	03/13/2006
		Date Analyzed:	03/31/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
PolyChlorinated Biphenyls (PCBs)

LCS Sample	Lab Control Sample	**DMS Sample**	Lab Control Sample Duplicate
Lab Code:	PWB10313LCS	**Units:**	ug/L (ppb)
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Aroclor-1016	SW3520	SW8082	1.0	5.000	3.554	4.276	71	86	65-135	18	
Aroclor-1260	SW3520	SW8082	1.0	5.000	3.537	3.867	71	77	65-135	9	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH009
Project:	PRESIDIO	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	03/29/2006
		Date Analyzed:	03/31/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
PolyChlorinated Biphenyls (PCBs)

LCS Sample	Lab Control Sample	**DMS Sample**	Lab Control Sample Duplicate
Lab Code:	PWB10329LCS	**Units:**	ug/L (ppb)
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Aroclor-1016	SW3520	SW8082	1.0	5.000	4.641	4.735	93	95	65-135	2	
Aroclor-1260	SW3520	SW8082	1.0	5.000	3.384	3.872	68	77	65-135	13	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client:	TREADWELL & ROLLO	**Service Request:**	DH009
Project:	PRESIDIO	**Date Extracted:**	03/13/2006
Sample Matrix:	Water	**Date Analyzed:**	03/24/2006
		Time Analyzed:	19:32

Method Blank Summary
PolyChlorinated Biphenyls (PCBs)

Extaction Method:	SW3520	**Extraction Lot:**	PWB10313
Analysis Method:	SW8082	**Level:**	

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
DAESP03CL	DH009002		03/24/2006	21:37
Laboratory Control Sample	PWB10313LCS		03/31/2006	13:03
Laboratory Control Sample Duplicate	PWB10313LCSD		03/31/2006	13:34

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Extracted: 03/29/2006
Date Analyzed: 03/31/2006
Time Analyzed: :

Method Blank Summary
PolyChlorinated Biphenyls (PCBs)

Extaction Method: SW3520
Analysis Method: SW8082

Extraction Lot: PWB10329
Level:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	PWB10329LCS		03/31/2006	09:56
Laboratory Control Sample Duplicate	PWB10329LCSD		03/31/2006	10:27
DAESP03CLRE	DH009002RE		03/31/2006	12:32

Standards data

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/20/2006

Initial Calibration Summary
PolyChlorinated Biphenyls (PCBs)

ICAL ID: 03/20/2006GCC
Instrument ID: GCC

Column: RTX-CLP2

Level ID	File ID
A	C0320011
B	C0320012
C	C0320013
D	C0320014
E	C0320015

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Decachlorobiphenyl - SS	A	0.010	3637	B	0.050	2612	C	0.100	2332	D	0.150	2290	E	0.200	2194
Tetrachloro-m-xylene	A	0.010	2965	B	0.050	2927	C	0.100	2770	D	0.150	2740	E	0.200	2680
Aroclor-1221	A			B			C	0.500	446.7	D			E		
Aroclor-1232	A			B			C	0.500	524	D			E		
Aroclor-1242	A			B			C	0.500	485.2	D			E		
Aroclor-1248	A			B			C	0.500	1406	D			E		
Aroclor-1254	A			B			C	0.500	1307	D			E		

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/20/2006

Initial Calibration Summary
PolyChlorinated Biphenyls (PCBs)

ICAL ID: 03/20/2006GCC
Instrument ID: GCC

Column: RTX-CLP2

Level ID	File ID
A	C0320011
B	C0320012
C	C0320013
D	C0320014
E	C0320015

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Aroclor-1016	A	0.050	115.6	B	0.250	97.74	C	0.500	89.28	D	0.750	88.22	E	1.000	86.36
Aroclor-1260	A	0.050	125.6	B	0.250	110.2	C	0.500	101.8	D	0.750	100.6	E	1.000	97.64

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/20/2006

Initial Calibration Summary
PolyChlorinated Biphenyls (PCBs)

ICAL ID: 03/20/2006GCC
Instrument ID: GCC
Mean RSD: 0.00

Column: RTX-CLP2

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
Decachlorobiphenyl - SS	SUR	Linear	r	1.000		0.995
Tetrachloro-m-xylene	SUR	AverageRF	% RSD	4.4		20.0
Aroclor-1221	TRG	AverageRF	% RSD	0.0		20.0
Aroclor-1232	TRG	AverageRF	% RSD	0.0		20.0
Aroclor-1242	TRG	AverageRF	% RSD	0.0		20.0
Aroclor-1248	TRG	AverageRF	% RSD	0.0		20.0
Aroclor-1254	TRG	AverageRF	% RSD	0.0		20.0

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/20/2006

Initial Calibration Summary
PolyChlorinated Biphenyls (PCBs)

ICAL ID: 03/20/2006GCC
Instrument ID: GCC
Mean RSD: 11.70

Column: RTX-CLP2

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
Aroclor-1016	TRG	AverageRF	% RSD	13.0		20.0
Aroclor-1260	TRG	AverageRF	% RSD	10.4		20.0

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/20/2006

Second Source Calibration Verification
PolyChlorinated Biphenyls (PCBs)

ICAL ID: 03/20/2006GCC
Instrument ID: GCC
File ID: C0320016

Column: RTX-CLP2

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Decachlorobiphenyl - SS	0.100	0.105	0.105	0.100	NA	4.9	+/- 15.0	Linear	
Aroclor-1016	0.500	0.488	0.488	0.500	-2.40	NA	+/- 15.0	AverageRF	
Aroclor-1260	0.500	0.510	0.510	0.500	2.10	NA	+/- 15.0	AverageRF	
Tetrachloro-m-xylene	0.100	0.102	0.102	0.100	1.80	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/24/2006

Continuing Calibration Verification Summary
PolyChlorinated Biphenyls (PCBs)

ICAL ID: 03/20/2006GCC
Instrument ID: GCC
File ID: C0324014

Column: RTX-CLP2

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Decachlorobiphenyl - SS	0.150	0.154	0.154	0.150	NA	2.7	+/- 15.0	Linear	
Aroclor-1016	0.750	0.714	0.714	0.750	-4.80	NA	+/- 15.0	AverageRF	
Aroclor-1260	0.750	0.707	0.707	0.750	-5.70	NA	+/- 15.0	AverageRF	
Tetrachloro-m-xylene	0.150	0.149	0.149	0.150	-0.40	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/24/2006

Continuing Calibration Verification Summary
PolyChlorinated Biphenyls (PCBs)

ICAL ID: 03/20/2006GCC
Instrument ID: GCC
File ID: C0324024

Column: RTX-CLP2

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Decachlorobiphenyl - SS	0.100	0.105	0.105	0.100	NA	4.6	+/- 15.0	Linear	
Aroclor-1016	0.500	0.478	0.478	0.500	-4.30	NA	+/- 15.0	AverageRF	
Aroclor-1260	0.500	0.493	0.493	0.500	-1.40	NA	+/- 15.0	AverageRF	
Tetrachloro-m-xylene	0.100	0.102	0.102	0.100	1.70	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/31/2006

Continuing Calibration Verification Summary
PolyChlorinated Biphenyls (PCBs)

ICAL ID: 03/20/2006GCC
Instrument ID: GCC
File ID: C0331003

Column: RTX-CLP2

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Decachlorobiphenyl - SS	0.100	0.110	0.111	0.100	NA	10.5	+/- 15.0	Linear	
Aroclor-1016	0.500	0.520	0.520	0.500	4.00	NA	+/- 15.0	AverageRF	
Aroclor-1260	0.500	0.444	0.444	0.500	-11.20	NA	+/- 15.0	AverageRF	
Tetrachloro-m-xylene	0.100	0.106	0.106	0.100	5.80	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/31/2006

Continuing Calibration Verification Summary
PolyChlorinated Biphenyls (PCBs)

ICAL ID: 03/20/2006GCC
Instrument ID: GCC
File ID: C0331015

Column: RTX-CLP2

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Decachlorobiphenyl - SS	0.150	0.163	0.163	0.150	NA	8.5	+/- 15.0	Linear	
Aroclor-1016	0.750	0.710	0.710	0.750	-5.40	NA	+/- 15.0	AverageRF	
Aroclor-1260	0.750	0.687	0.687	0.750	-8.40	NA	+/- 15.0	AverageRF	
Tetrachloro-m-xylene	0.150	0.146	0.146	0.150	-2.60	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009

Analysis Run Log
PolyChlorinated Biphenyls (PCBs)

Analysis Method: SW8082

Instrument ID: GCC
Column: RTX-CLP2

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
C0320004	OSTD3 1221	OSTD3 1221	03/20/2006	10:43		03/20/2006	11:13
C0320005	OSTD3 1232	OSTD3 1232	03/20/2006	11:14		03/20/2006	11:44
C0320006	OSTD3 1242	OSTD3 1242	03/20/2006	11:45		03/20/2006	12:15
C0320007	OSTD3 1248	OSTD3 1248	03/20/2006	12:16		03/20/2006	12:46
C0320008	OSTD3 1254	OSTD3 1254	03/20/2006	12:48		03/20/2006	13:18
C0320011	OSTD1 1660	OSTD1 1660	03/20/2006	14:21		03/20/2006	14:51
C0320012	OSTD2 1660	OSTD2 1660	03/20/2006	14:53		03/20/2006	15:23
C0320013	OSTD3 1660	OSTD3 1660	03/20/2006	15:24		03/20/2006	15:54
C0320014	OSTD4 1660	OSTD4 1660	03/20/2006	15:55		03/20/2006	16:25
C0320015	OSTD5 1660	OSTD5 1660	03/20/2006	16:26		03/20/2006	16:56
C0320016	QCALTSTD	OSTD3 1660	03/20/2006	16:58		03/20/2006	17:28
C0324014	OSTD4 1660	OSTD4 1660	03/24/2006	17:28		03/24/2006	17:58
C0324018	Method Blank	PWB10313	03/24/2006	19:32		03/24/2006	20:02
C0324022	DAESP03CL	DH009002	03/24/2006	21:37		03/24/2006	22:07
C0324024	OSTD3 1660	OSTD3 1660	03/24/2006	22:40		03/24/2006	23:10
C0331003	OSTD3 1660	OSTD3 1660	03/31/2006	08:54		03/31/2006	09:24
C0331005	Laboratory Control Sample	PWB10329LCS	03/31/2006	09:56		03/31/2006	10:26
C0331006	Laboratory Control Sample Duplicate	PWB10329LCSD	03/31/2006	10:27		03/31/2006	10:57
C0331007	Method Blank	PWB10329	03/31/2006	10:58		03/31/2006	11:28
C0331010	DAESP03CLRE	DH009002RE	03/31/2006	12:32		03/31/2006	13:02
C0331011	Laboratory Control Sample	PWB10313LCS	03/31/2006	13:03		03/31/2006	13:33
C0331012	Laboratory Control Sample Duplicate	PWB10313LCSD	03/31/2006	13:34		03/31/2006	14:04
C0331015	OSTD4 1660	OSTD4 1660	03/31/2006	15:08		03/31/2006	15:38

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Extracted: 03/13/2006

Extraction Prep Log
PolyChlorinated Biphenyls (PCBs)

Extaction Method: SW3520
Analysis Method: SW8082

Extraction Lot: PWB10313
Level:

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	PWB10313	NA	NA	1.000 L	10	NA	
DAESP03CL	DH009002	03/08/2006	03/09/2006	1.050 L	10	NA	
Laboratory Control Sample	PWB10313LCS	NA	NA	1.000 L	10	NA	
Laboratory Control Sample Duplicate	PWB10313LCSD	NA	NA	1.000 L	10	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Extracted: 03/29/2006

Extraction Prep Log
PolyChlorinated Biphenyls (PCBs)

Extaction Method: SW3520
Analysis Method: SW8082

Extraction Lot: PWB10329
Level:

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	PWB10329	NA	NA	1.000 L	10	NA	
Laboratory Control Sample	PWB10329LCS	NA	NA	1.000 L	10	NA	
Laboratory Control Sample Duplicate	PWB10329LCSD	NA	NA	1.000 L	10	NA	
DAESP03CLRE	DH009002RE	03/08/2006	03/09/2006	1.040 L	10	NA	*

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009

Holding Time Summary
PolyChlorinated Biphenyls (PCBs)

Analysis Method: SW8082

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
DAESP03CL	03/08/2006	03/09/2006	03/13/2006	7	5	N/A	N/A	N/A	03/24/2006	40	11	
DAESP03CLRE	03/08/2006	03/09/2006	03/29/2006	7	21	N/A	N/A	N/A	03/31/2006	40	2	*

Comments:

Support Documentation

Liquid-Liquid Extraction, 3520C

Pesticide/PCB Water

Date	3-15-06
Time	16:00

Batches: DH005, DH008, DH009

Client(s): Presidio, EA/Anderson

Analytical Method(s)

- [x] 8081A
- [x] 8082
- [ ] CLP
- [ ] TCLP,1311

Solvent Lots

DCM	45348 3/16/13
Acetone	—
Hexane	45083 3/16/06

Spikes

Surrogate: 13 -EXS- 78A 3
Amt. 1.0 ml Exp: 3/16/06

Spike 1: 13 -EXS- ~~84A90~~
Amt. 1.0 ml Exp: 3/27/06

Spike 2: 13 -EXS- 86A
Amt. 1.0 ml Exp: 5/7/06

Spike 3: -EXS-
Amt. ml Exp:

Spiked by: [illegible] Witness: [illegible]

Cleanups

- [ ] GPC, 3640A — Calib ____ By/date ____ ID ____
- *Initial KD* [ ] 1.0ml aliquot saved — By/date ____ vol ____ ml
- [ ] Florisil, 3620B — By/date ____ Lot ____
- [ ] Sulfuric Acid, 3665A — By/date ____ Lot ____
- [ ] Mercury, 3660B — By/date ____ Lot ____
- [x] No cleanups

Test Code(s): 8/82

Sample ID	Surrogate	Spike 1	Spike 2	Spike 3	Amt (1L)	Final KD: H2O bath temp 70 Hot °C; Date & Volume	Relinq. Date
	X	X	X	X	By:	By: [illegible] 3/15/06	By: [illegible] 3/15/06
PWB1	X				1.0	10.0 ml	
PWL1 → Post	X	X					
PWL2	X	X					
L-3 → Ano	X		X				
L-4	X		X				
DH005-4 P	X				1.05		
-5 S	X						
-6 P	X						
DH008-15 B	X						
DH009-2L	X						

3-15-06

- [ ] Completed ms/msd
- [x] Sample limited, no ms/msd, duplicate LCS

082

Comments:

Peer Review By:

Organic Extractions Dept.
CAS-Redding

Liquid-Liquid Extraction, 3520C

Pesticide/PCB Water

Date	3-29-06
Time	15:00

Batches: DH005, DH009

Client(s): Presidio

Analytical Method(s)

- [x] 8081A
- [x] 8082
- [ ] CLP
- [ ] TCLP,1311

Solvent Lots

DCM	45348 3/28-3/29
Acetone	—
Hexane	45320 2/1 3/25

Spikes

Surrogate: 13 -EXS-91A-2
Amt. 1.0 ml Exp: 6/14/06

Spike 1: 13 -EXS-94A
Amt. 1.0 ml Exp: 4/05/06

Spike 2: 13 -EXS-95A
Amt. 1.0 ml Exp: 1/28/06

Spike 3: -EXS-
Amt. ml Exp:

Spiked by: [illegible] Witness: [illegible]

Cleanups

- [ ] GPC, 3640A — Calib ____ By/date ____ ID ____
- *Initial KD* [ ] 1.0ml aliquot saved — By/date ____ vol ____ ml
- [ ] Florisil, 3620B — By/date ____ Lot ____
- [ ] Sulfuric Acid, 3665A — By/date ____ Lot ____
- [ ] Mercury, 3660B — By/date ____ Lot ____
- [x] No cleanups

Test Code(s): 8021/8082

Sample ID	Surrogate	Spike 1	Spike 2	Spike 3	Amt (1L)	Final KD: H2O bath temp 90 °C; Date & Volume	Relinq. Date
	X	X	X	X	By: JP	By: CLE 3/30/06	By: CLE
PWB1	X				1.0	10.0ml	3/30/06
PWL1 → Pest	X	X			↓	↓	↓
PWL2	X	X					
L-3 → Aro	X		X				
L-4	X		X		↓		
DH005-4a	X				1.05		
↓ -6T	X				1.04		
DH009-2R	X				↓	↓	↓

3-29-06 JP

- [ ] Completed ms/msd
- [x] Sample limited, no ms/msd, duplicate LCS

092

Comments:

Peer Review By:

Organic Extractions Dept.
CAS-Redding

Columbia Analytical Services

Herb/Pest/PCB Injection Log
HP 5890
GC C

Date
3-20-06

Analyst: 43
Method: GB8082

Directory: C060320
Internal Standard: 22-GC-24B-1/2

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Filename	Laboratory ID	F	Matrix	DL Factor	Reference Standard	Comments
C060320 01	PRIMER					
02	OIBLK 03/20		STD	1x	22-GC-34A	
03	WASH					
04	OSTD3 1221		STD	1x	22-GC-38A	
05	1232				-38B	
06	1242				-38C	
07	1248				-38D	
08	1254				-38E	
09	1268				-38F	
10	WASH					
11	OSTD1 1660		STD	1x	22-GC-36C	
12	2				-36D	
13	3				-36E	
14	4				-36F	
15	5				-36G	
16	6				-36H	
17	WASH					
18	PSB10315LCS		SOIL			
19	PSB10315					
20	D06000030-001	.01		1x		
21	-001MS			40x		
22	-001MSD			1x		
23	-001MSD					
24	WASH					
25	OSTD3 1660		STD	1x	22-GC-36E	

3/21/06

Columbia Analytical Services

Herb/Pest/PCB Injection Log
HP 5890
GC C

Date
3-24-06

Analyst: dB
Method: GC8082

Directory: C060324
Internal Standard: 22-GC-246-1/2

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Filename		Laboratory ID	F	Matrix	DL Factor	Reference Standard	Comments	
C060324	01	PRIMER						
	02	OIBLK 03/24		STD	1x	22-GC-34A		
	03	OSTD3 1640		↓	↓	↓ -36E		
	04	WASH						
	05	PSB10323LCS		SOIL	1x			
	06	PSB10323						
	07	D0600059-001	.01					
	08	-002						
	09	-003						
	10	-003MS						
	11	-003MSD						
	12	-004						
	13	WASH						
	14	OSTD4 1660		STD	1x	22-GC-36F		
	15	WASH						
	16	PWB10313LCS		H_2O	1x		DCB 55	TCX 70
	17	↓ LCSD					DCB 62	TCX 84
	18	PWB10313					DCB 76	TCX 97
	19	DH005-004	P				DCB:36	TCX:62
	20	-005	S				DCB:40	TCX(78)
	21	-006	P				DCB:17.8	TCX:52
	22	DH009-002	↓				DCB:14.5	TCX(67)
	23	WASH						
	24	OSTD3 1660		STD	1x	22-GC-36E		
	25	WASH						

Columbia Analytical Services

Herb/Pest/PCB Injection Log
HP 5890
GC C

Date
3-31-02

Analyst: 463
Method: CB8082

Directory: C060331
Internal Standard: 22-4C-24B-1/2
22-4C-37A-1/2

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Filename		Laboratory ID	F	Matrix	DL Factor	Reference Standard	Comments
C060331	01	PRINCK					
	02	OIBLK 03/31		STD	1x	22-4C-34A	
	03	08TO3 1660		↓	↓	-36E	
	04	WASH					
	05	PWB10329LCS		H_2O	1x		
	06	↓ LCSD		↓	↓		
	07	PWB10329					
	08	DH005-004RE	Q				
	09	↓ -006RE	T				
	10	DH009-002RE	R				
	11	PWB10313LCS					
	12	↓ LCSD					
	13	DH005-005	S	↓	↓		re-analyze
	14	WASH					
	15	08TO4 1660		STD	1x	22-4C-36F	
	16	WASH					

Analysis Method:	SW8082	**Analyst:**	J. Beckett
Extraction Method:	SW3520	**Instrument:**	GCC
Matrix:	WATER	**Description:**	Combined MDL for Col.1 and Col. 2
MDL Effective Date:	11/5/2005	**Deptartment:**	GS

#	Compound	CAS No.	Date	MDL	UG/L	1	2	3	4	5	6	7	8	Mean	Std Dev	MDL Check	True Value	%Rec
1	AROCLOR-1016	12674-11-2	11/4/2005	0.24	0.25	0.44	0.45		0.39	0.32	0.41	0.30	0.52	0.41	0.0769	0.17	0.13	128.00
2	AROCLOR-1221	11104-28-2	11/4/2005	0.22	0.50	0.85	0.71	0.65	0.78	0.79	0.63	0.75	0.73	0.74	0.0730	0.42	0.25	169.60
3	AROCLOR-1232	11141-16-5	11/4/2005	0.20	0.25	0.33	0.34	0.35	0.37	0.35	0.34	0.32	0.53	0.37	0.0671	0.18	0.13	142.00
4	AROCLOR-1242	53469-21-9	11/4/2005	0.043	0.25	0.33	0.30	0.31	0.30	0.31	0.29	0.29	0.32	0.31	0.0142	0.17	0.13	127.69
5	AROCLOR-1248	12672-29-6	11/4/2005	0.12	0.25	0.35	0.36		0.33	0.32	0.36	0.43	0.32	0.35	0.0374	0.20	0.13	150.62
6	AROCLOR-1254	11097-69-1	11/4/2005	0.063	0.25	0.31	0.30	0.28	0.34	0.30	0.29	0.27	0.28	0.30	0.0211	0.14	0.13	109.08
7	AROCLOR-1260	11096-82-5	11/4/2005	0.081	0.25	0.24	0.32	0.25	0.29	0.25	0.27	0.25	0.24	0.26	0.0270	0.16	0.13	119.31
8	AROCLOR-1268	11100-14-4	11/4/2005	0.028	0.25	0.30	0.32	0.32	0.33	0.33	0.32	0.31	0.32	0.32	0.0092	0.18	0.13	140.00

The 3rd MDL replicate was not added to the study for Aroclor 1016 and 1248 as they failed the one-sided outlier test

GC ORGANOCHLORINE PESTICIDES

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: 03/08/2006
Date Received: 03/09/2006

ORGANOCHLORINE PESTICIDES

Sample Name: DAESP03CL
Lab Code: DH009002

Extraction SW3520
Analysis Method: SW8081

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Endosulfan I	ND	U	0.050	1	03/13/2006	03/24/2006	PWB10313	
Methoxychlor	ND	U	0.50	1	03/13/2006	03/24/2006	PWB10313	
alpha-BHC	ND	U	0.050	1	03/13/2006	03/24/2006	PWB10313	
beta-BHC	ND	U	0.050	1	03/13/2006	03/24/2006	PWB10313	
gamma-BHC (Lindane)	ND	U	0.050	1	03/13/2006	03/24/2006	PWB10313	
delta-BHC	ND	U	0.050	1	03/13/2006	03/24/2006	PWB10313	
Heptachlor	ND	U	0.050	1	03/13/2006	03/24/2006	PWB10313	
Aldrin	ND	U	0.050	1	03/13/2006	03/24/2006	PWB10313	
Heptachlor epoxide	ND	U	0.050	1	03/13/2006	03/24/2006	PWB10313	
gamma-Chlordane	ND	U	0.50	1	03/13/2006	03/24/2006	PWB10313	
Toxaphene	ND	U	1.0	1	03/13/2006	03/24/2006	PWB10313	
alpha-Chlordane	ND	U	0.50	1	03/13/2006	03/24/2006	PWB10313	
4,4'-DDE	ND	U	0.10	1	03/13/2006	03/24/2006	PWB10313	
Dieldrin	ND	U	0.10	1	03/13/2006	03/24/2006	PWB10313	
Endrin	ND	U	0.10	1	03/13/2006	03/24/2006	PWB10313	
Endosulfan II	ND	U	0.10	1	03/13/2006	03/24/2006	PWB10313	
4,4'-DDD	ND	U	0.10	1	03/13/2006	03/24/2006	PWB10313	
Endosulfan sulfate	ND	U	0.10	1	03/13/2006	03/24/2006	PWB10313	
4,4'-DDT	ND	U	0.10	1	03/13/2006	03/24/2006	PWB10313	
Endrin ketone	ND	U	0.10	1	03/13/2006	03/24/2006	PWB10313	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	21	65-135	03/24/2006	*
Tetrachloro-m-xylene - SS	63	65-135	03/24/2006	*

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: 03/08/2006
Date Received: 03/09/2006

ORGANOCHLORINE PESTICIDES

Sample Name: DAESP03CLRE
Lab Code: DH009002RE

Units: ug/L (ppb)
Basis: NA

Extraction SW3520
Analysis Method: SW8081

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Endosulfan I	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
Methoxychlor	ND	U	0.50	1	03/29/2006	03/31/2006	PWB10329	
alpha-BHC	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
beta-BHC	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
gamma-BHC (Lindane)	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
delta-BHC	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
Heptachlor	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
Aldrin	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
Heptachlor epoxide	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
gamma-Chlordane	ND	U	0.50	1	03/29/2006	03/31/2006	PWB10329	
Toxaphene	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
alpha-Chlordane	ND	U	0.50	1	03/29/2006	03/31/2006	PWB10329	
4,4'-DDE	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	
Dieldrin	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	
Endrin	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	
Endosulfan II	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	
4,4'-DDD	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	
Endosulfan sulfate	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	
4,4'-DDT	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	
Endrin ketone	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	21	65-135	03/31/2006	*
Tetrachloro-m-xylene - SS	76	65-135	03/31/2006	

Comments:

QC Summary

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: NA
Date Received: NA

ORGANOCHLORINE PESTICIDES

Sample Name: Method Blank
Lab Code: PWB10313
Extraction SW3520
Analysis Method: SW8081

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Endosulfan I	ND	U	0.050	1	03/13/2006	03/19/2006	PWB10313	
Methoxychlor	ND	U	0.50	1	03/13/2006	03/19/2006	PWB10313	
alpha-BHC	ND	U	0.050	1	03/13/2006	03/19/2006	PWB10313	
beta-BHC	ND	U	0.050	1	03/13/2006	03/19/2006	PWB10313	
gamma-BHC (Lindane)	ND	U	0.050	1	03/13/2006	03/19/2006	PWB10313	
delta-BHC	ND	U	0.050	1	03/13/2006	03/19/2006	PWB10313	
Heptachlor	ND	U	0.050	1	03/13/2006	03/19/2006	PWB10313	
Aldrin	ND	U	0.050	1	03/13/2006	03/19/2006	PWB10313	
Heptachlor epoxide	ND	U	0.050	1	03/13/2006	03/19/2006	PWB10313	
gamma-Chlordane	ND	U	0.50	1	03/13/2006	03/19/2006	PWB10313	
Toxaphene	ND	U	1.0	1	03/13/2006	03/19/2006	PWB10313	
alpha-Chlordane	ND	U	0.50	1	03/13/2006	03/19/2006	PWB10313	
4,4'-DDE	ND	U	0.10	1	03/13/2006	03/19/2006	PWB10313	
Dieldrin	ND	U	0.10	1	03/13/2006	03/19/2006	PWB10313	
Endrin	ND	U	0.10	1	03/13/2006	03/19/2006	PWB10313	
Endosulfan II	ND	U	0.10	1	03/13/2006	03/19/2006	PWB10313	
4,4'-DDD	ND	U	0.10	1	03/13/2006	03/19/2006	PWB10313	
Endosulfan sulfate	ND	U	0.10	1	03/13/2006	03/19/2006	PWB10313	
4,4'-DDT	ND	U	0.10	1	03/13/2006	03/19/2006	PWB10313	
Endrin ketone	ND	U	0.10	1	03/13/2006	03/19/2006	PWB10313	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	78	65-135	03/19/2006	
Tetrachloro-m-xylene - SS	88	65-135	03/19/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: NA
Date Received: NA

ORGANOCHLORINE PESTICIDES

Sample Name: Method Blank
Lab Code: PWB10329
Extraction SW3520
Analysis Method: SW8081

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Endosulfan I	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
Methoxychlor	ND	U	0.50	1	03/29/2006	03/31/2006	PWB10329	
alpha-BHC	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
beta-BHC	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
gamma-BHC (Lindane)	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
delta-BHC	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
Heptachlor	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
Aldrin	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
Heptachlor epoxide	ND	U	0.050	1	03/29/2006	03/31/2006	PWB10329	
gamma-Chlordane	ND	U	0.50	1	03/29/2006	03/31/2006	PWB10329	
Toxaphene	ND	U	1.0	1	03/29/2006	03/31/2006	PWB10329	
alpha-Chlordane	ND	U	0.50	1	03/29/2006	03/31/2006	PWB10329	
4,4'-DDE	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	
Dieldrin	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	
Endrin	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	
Endosulfan II	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	
4,4'-DDD	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	
Endosulfan sulfate	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	
4,4'-DDT	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	
Endrin ketone	ND	U	0.10	1	03/29/2006	03/31/2006	PWB10329	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	86	65-135	03/31/2006	
Tetrachloro-m-xylene - SS	92	65-135	03/31/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009

Surrogate Recovery Summary
ORGANOCHLORINE PESTICIDES

Prep Method: SW3520
Analysis Method: SW8081

Units: Percent

Sample Name	Lab Code	Q	S1	S2
Laboratory Control Sample	PWB10313LCS		85	90
Laboratory Control Sample Duplicate	PWB10313LCSD		77	77
Method Blank	PWB10313		78	88
DAESP03CL	DH009002	*	21	63
Laboratory Control Sample	PWB10329LCS	*	59	88
Laboratory Control Sample Duplicate	PWB10329LCSD	*	45	81
Method Blank	PWB10329		86	92
DAESP03CLRE	DH009002RE	*	21	76

Surrogate Recovery Control Limits (%)

S1:	Decachlorobiphenyl - SS	65-135
S2:	Tetrachloro-m-xylene - SS	65-135

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH009
Project:	PRESIDIO	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	03/13/2006
		Date Analyzed:	03/19/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
ORGANOCHLORINE PESTICIDES

LCS Sample	Lab Control Sample	**DMS Sample**	Lab Control Sample Duplicate
Lab Code:	PWB10313LCS	**Units:**	ug/L (ppb)
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Endosulfan I	SW3520	SW8081	0.050	0.5000	0.5561	0.4761	111	95	65-135	16	
Endrin ketone	SW3520	SW8081	0.10	0.5000	0.5902	0.5267	118	105	65-135	11	
alpha-BHC	SW3520	SW8081	0.050	0.5000	0.5753	0.4878	115	98	65-135	16	
beta-BHC	SW3520	SW8081	0.050	0.5000	0.5508	0.4798	110	96	65-135	14	
gamma-BHC (Lindane)	SW3520	SW8081	0.050	0.5000	0.5691	0.4843	114	97	65-135	16	
delta-BHC	SW3520	SW8081	0.050	0.5000	0.6130	0.5145	123	103	65-135	17	
Heptachlor	SW3520	SW8081	0.050	0.5000	0.4967	0.4416	99	88	65-135	12	
Aldrin	SW3520	SW8081	0.050	0.5000	0.5231	0.4416	105	88	65-135	17	
Heptachlor epoxide	SW3520	SW8081	0.050	0.5000	0.5455	0.4600	109	92	65-135	17	
gamma-Chlordane	SW3520	SW8081	0.50	0.5000	0.5474	0.4630	109	93	65-135	17	
Methoxychlor	SW3520	SW8081	0.50	0.5000	0.5610	0.4893	112	98	65-135	14	
alpha-Chlordane	SW3520	SW8081	0.50	0.5000	0.5593	0.4738	112	95	65-135	16	
4,4'-DDE	SW3520	SW8081	0.10	0.5000	0.5389	0.4612	108	92	65-135	16	
Dieldrin	SW3520	SW8081	0.10	0.5000	0.5494	0.4654	110	93	65-135	16	
Endrin	SW3520	SW8081	0.10	0.5000	0.5462	0.4710	109	94	65-135	15	
Endosulfan II	SW3520	SW8081	0.10	0.5000	0.5009	0.4382	100	88	65-135	13	
4,4'-DDD	SW3520	SW8081	0.10	0.5000	0.5170	0.4528	103	90	65-135	13	
Endosulfan sulfate	SW3520	SW8081	0.10	0.5000	0.5488	0.4883	110	98	65-135	12	
4,4'-DDT	SW3520	SW8081	0.10	0.5000	0.5544	0.4873	111	97	65-135	13	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: NA
Date Received: NA
Date Extracted: 03/29/2006
Date Analyzed: 03/31/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
ORGANOCHLORINE PESTICIDES

LCS Sample Lab Control Sample
Lab Code: PWB10329LCS
Test Notes:

DMS Sample Lab Control Sample Duplicate
Units: ug/L (ppb)

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Endosulfan I	SW3520	SW8081	0.050	0.5000	0.4556	0.4056	91	81	65-135	12	
Endrin ketone	SW3520	SW8081	0.10	0.5000	0.5364	0.5265	107	105	65-135	2	
alpha-BHC	SW3520	SW8081	0.050	0.5000	0.4838	0.4551	97	91	65-135	6	
beta-BHC	SW3520	SW8081	0.050	0.5000	0.5382	0.5028	108	100	65-135	7	
gamma-BHC (Lindane)	SW3520	SW8081	0.050	0.5000	0.5363	0.5005	107	100	65-135	7	
delta-BHC	SW3520	SW8081	0.050	0.5000	0.5480	0.5157	110	103	65-135	6	
Heptachlor	SW3520	SW8081	0.050	0.5000	0.4812	0.4553	96	91	65-135	6	
Aldrin	SW3520	SW8081	0.050	0.5000	0.5398	0.5123	108	102	65-135	5	
Heptachlor epoxide	SW3520	SW8081	0.050	0.5000	0.5042	0.4629	101	92	65-135	8	
gamma-Chlordane	SW3520	SW8081	0.50	0.5000	0.4998	0.4784	100	96	65-135	4	
Methoxychlor	SW3520	SW8081	0.50	0.5000	0.5332	0.5069	107	101	65-135	5	
alpha-Chlordane	SW3520	SW8081	0.50	0.5000	0.4754	0.4535	95	91	65-135	5	
4,4'-DDE	SW3520	SW8081	0.10	0.5000	0.4684	0.4513	94	90	65-135	4	
Dieldrin	SW3520	SW8081	0.10	0.5000	0.4584	0.4728	92	94	65-135	3	
Endrin	SW3520	SW8081	0.10	0.5000	0.5103	0.4775	102	96	65-135	7	
Endosulfan II	SW3520	SW8081	0.10	0.5000	0.4616	0.4311	92	86	65-135	7	
4,4'-DDD	SW3520	SW8081	0.10	0.5000	0.4821	0.4505	96	90	65-135	7	
Endosulfan sulfate	SW3520	SW8081	0.10	0.5000	0.5308	0.4920	106	98	65-135	8	
4,4'-DDT	SW3520	SW8081	0.10	0.5000	0.4707	0.4685	94	94	65-135	0	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client:	TREADWELL & ROLLO	**Service Request:**	DH009
Project:	PRESIDIO	**Date Extracted:**	03/13/2006
Sample Matrix:	Water	**Date Analyzed:**	03/19/2006
		Time Analyzed:	23:39

Method Blank Summary

ORGANOCHLORINE PESTICIDES

Extaction Method:	SW3520	**Extraction Lot:**	PWB10313
Analysis Method:	SW8081	**Level:**	

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	PWB10313LCS		03/19/2006	21:55
Laboratory Control Sample Duplicate	PWB10313LCSD		03/19/2006	22:47
DAESP03CL	DH009002		03/24/2006	15:47

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client:	TREADWELL & ROLLO	**Service Request:**	DH009
Project:	PRESIDIO	**Date Extracted:**	03/29/2006
Sample Matrix:	Water	**Date Analyzed:**	03/31/2006
		Time Analyzed:	:

Method Blank Summary

ORGANOCHLORINE PESTICIDES

Extaction Method:	SW3520	**Extraction Lot:**	PWB10329
Analysis Method:	SW8081	**Level:**	

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	PWB10329LCS		03/31/2006	02:57
Laboratory Control Sample Duplicate	PWB10329LCSD		03/31/2006	03:49
DAESP03CLRE	DH009002RE		03/31/2006	07:15

Standards data

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/13/2006

Initial Calibration Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/13/2006GCD
Instrument ID: GCD

Column: DB5

Level ID	File ID
A	D0313004
B	D0313005
C	D0313006
D	D0313007
E	D0313008

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Toxaphene	A	0.100	0.019	B	0.250	0.019	C	0.500	0.018	D	0.750	0.016	E	1.000	0.015

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/13/2006

Initial Calibration Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/13/2006GCD
Instrument ID: GCD
Mean RSD: 9.10

Column: DB5

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
Toxaphene	TRG	AverageRF	% RSD	9.1		20.0

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/14/2006

Initial Calibration Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/14/2006GCD
Instrument ID: GCD

Column: DB5

Level ID	File ID
A	D0313011
B	D0313012
C	D0313013
D	D0313014
E	D0313015

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Endosulfan I	A	0.002	1.321	B	0.015	0.929	C	0.050	0.893	D	0.075	0.914	E	0.100	0.896
Endrin ketone	A	0.002	1.097	B	0.015	0.911	C	0.050	0.826	D	0.075	0.825	E	0.100	0.845
4,4'-DDT	A	0.002	0.978	B	0.015	0.796	C	0.050	0.721	D	0.075	0.743	E	0.100	0.734
alpha-BHC	A	0.002	2.379	B	0.015	1.774	C	0.050	1.575	D	0.075	1.559	E	0.100	1.553
beta-BHC	A	0.002	0.590	B	0.015	0.544	C	0.050	0.488	D	0.075	0.481	E	0.100	0.470
gamma-BHC (Lindane)	A	0.002	1.646	B	0.015	1.501	C	0.050	1.420	D	0.075	1.419	E	0.100	1.387
delta-BHC	A	0.002	1.535	B	0.015	1.389	C	0.050	1.347	D	0.075	1.359	E	0.100	1.337
Heptachlor	A	0.002	1.831	B	0.015	1.463	C	0.050	1.358	D	0.075	1.374	E	0.100	1.332
Aldrin	A	0.002	1.452	B	0.015	1.302	C	0.050	1.241	D	0.075	1.242	E	0.100	1.240
Heptachlor epoxide	A	0.002	1.292	B	0.015	1.068	C	0.050	1.032	D	0.075	1.039	E	0.100	1.055
gamma-Chlordane	A	0.002	1.249	B	0.015	1.113	C	0.050	1.054	D	0.075	1.059	E	0.100	1.021
Methoxychlor	A	0.002	0.448	B	0.015	0.401	C	0.050	0.356	D	0.075	0.358	E	0.100	0.359
alpha-Chlordane	A	0.002	1.353	B	0.015	1.118	C	0.050	1.015	D	0.075	1.049	E	0.100	0.977
4,4'-DDE	A	0.002	1.213	B	0.015	0.973	C	0.050	0.863	D	0.075	0.865	E	0.100	0.867
Dieldrin	A	0.002	1.440	B	0.015	1.119	C	0.050	1.119	D	0.075	1.137	E	0.100	1.116
Endrin	A	0.002	1.135	B	0.015	1.012	C	0.050	0.928	D	0.075	0.905	E	0.100	0.927
Endosulfan II	A	0.002	1.093	B	0.015	0.893	C	0.050	0.830	D	0.075	0.772	E	0.100	0.825
4,4'-DDD	A	0.002	0.930	B	0.015	0.756	C	0.050	0.751	D	0.075	0.662	E	0.100	0.753
Endrin aldehyde	A	0.002	0.762	B	0.015	0.655	C	0.050	0.586	D	0.075	0.585	E	0.100	0.590
Endosulfan sulfate	A	0.002	0.964	B	0.015	0.808	C	0.050	0.678	D	0.075	0.690	E	0.100	0.677
Tetrachloro-m-xylene	A	0.004	1.099	B	0.030	0.856	C	0.100	0.769	D	0.150	0.795	E	0.200	0.762
Decachlorobiphenyl - SS	A	0.004	1.241	B	0.030	0.846	C	0.100	0.731	D	0.150	0.735	E	0.200	0.730

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/14/2006

Initial Calibration Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/14/2006GCD
Instrument ID: GCD
Mean RSD: 12.19

Column: DB5

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
Endosulfan I	TRG	Linear	r	1.000		0.995
Endrin ketone	TRG	Linear	r	1.000		0.995
4,4'-DDT	TRG	Linear	r	1.000		0.995
alpha-BHC	TRG	Linear	r	1.000		0.995
beta-BHC	TRG	AverageRF	% RSD	9.9		20.0
gamma-BHC (Lindane)	TRG	AverageRF	% RSD	7.1		20.0
delta-BHC	TRG	AverageRF	% RSD	5.8		20.0
Heptachlor	TRG	AverageRF	% RSD	14.0		20.0
Aldrin	TRG	AverageRF	% RSD	7.0		20.0
Heptachlor epoxide	TRG	AverageRF	% RSD	10.0		20.0
gamma-Chlordane	TRG	AverageRF	% RSD	8.2		20.0
Methoxychlor	TRG	Linear	r	1.000		0.995
alpha-Chlordane	TRG	AverageRF	% RSD	13.6		20.0
4,4'-DDE	TRG	AverageRF	% RSD	15.8		20.0
Dieldrin	TRG	AverageRF	% RSD	12.0		20.0
Endrin	TRG	AverageRF	% RSD	9.7		20.0
Endosulfan II	TRG	AverageRF	% RSD	14.2		20.0
4,4'-DDD	TRG	AverageRF	% RSD	12.7		20.0
Endrin aldehyde	TRG	AverageRF	% RSD	12.1		20.0
Endosulfan sulfate	TRG	AverageRF	% RSD	16.3		20.0
Tetrachloro-m-xylene	SUR	AverageRF	% RSD	16.4		20.0
Decachlorobiphenyl - SS	SUR	Linear	r	1.000		0.995

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/29/2006

Initial Calibration Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/29/2006GCD
Instrument ID: GCD

Column: DB5

Level ID	File ID
A	D0328014
B	D0328015
C	D0328016
D	D0328017
E	D0328018

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Toxaphene	A	0.100	0.016	B	0.250	0.015	C	0.500	0.016	D	0.750	0.016	E	1.000	0.015

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/29/2006

Initial Calibration Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/29/2006GCD
Instrument ID: GCD
Mean RSD: 8.16

Column: DB5

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
Toxaphene	TRG	AverageRF	% RSD	7.3		20.0

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/29/2006

Initial Calibration Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/29/2006GCD
Instrument ID: GCD

Column: DB5

Level ID	File ID
A	D0328014
B	D0328015
C	D0328016
D	D0328017
E	D0328018

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Endosulfan I	A	0.002	1.059	B	0.015	1.042	C	0.050	0.930	D	0.075	0.890	E	0.100	0.923
Endrin ketone	A	0.002	0.945	B	0.015	0.837	C	0.050	0.779	D	0.075	0.808	E	0.100	0.810
4,4'-DDT	A	0.002	1.278	B	0.015	0.807	C	0.050	0.774	D	0.075	0.773	E	0.100	0.764
alpha-BHC	A	0.002	1.920	B	0.015	1.634	C	0.050	1.562	D	0.075	1.566	E	0.100	1.563
beta-BHC	A	0.002	0.484	B	0.015	0.436	C	0.050	0.453	D	0.075	0.450	E	0.100	0.445
gamma-BHC (Lindane)	A	0.002	1.361	B	0.015	1.351	C	0.050	1.419	D	0.075	1.422	E	0.100	1.431
delta-BHC	A	0.002	1.408	B	0.015	1.278	C	0.050	1.282	D	0.075	1.334	E	0.100	1.339
Heptachlor	A	0.002	1.494	B	0.015	1.390	C	0.050	1.387	D	0.075	1.396	E	0.100	1.397
Aldrin	A	0.002	1.364	B	0.015	1.260	C	0.050	1.223	D	0.075	1.262	E	0.100	1.282
Heptachlor epoxide	A	0.002	1.111	B	0.015	1.123	C	0.050	1.082	D	0.075	1.104	E	0.100	1.108
gamma-Chlordane	A	0.002	1.173	B	0.015	1.044	C	0.050	1.038	D	0.075	1.045	E	0.100	1.066
Methoxychlor	A	0.002	0.309	B	0.015	0.360	C	0.050	0.342	D	0.075	0.347	E	0.100	0.344
alpha-Chlordane	A	0.002	1.342	B	0.015	1.079	C	0.050	1.059	D	0.075	1.095	E	0.100	1.022
4,4'-DDE	A	0.002	1.099	B	0.015	0.950	C	0.050	0.879	D	0.075	0.895	E	0.100	0.936
Dieldrin	A	0.002	1.274	B	0.015	1.120	C	0.050	1.052	D	0.075	1.082	E	0.100	1.146
Endrin	A	0.002	1.011	B	0.015	0.994	C	0.050	0.982	D	0.075	0.999	E	0.100	0.994
Endosulfan II	A	0.002	0.927	B	0.015	0.853	C	0.050	0.840	D	0.075	0.865	E	0.100	0.861
4,4'-DDD	A	0.002	0.768	B	0.015	0.725	C	0.050	0.740	D	0.075	0.774	E	0.100	0.774
Endrin aldehyde	A	0.002	0.596	B	0.015	0.608	C	0.050	0.550	D	0.075	0.587	E	0.100	0.583
Endosulfan sulfate	A	0.002	1.596	B	0.015	0.830	C	0.050	0.678	D	0.075	0.704	E	0.100	0.692
Tetrachloro-m-xylene	A	0.004	0.951	B	0.030	0.807	C	0.100	0.751	D	0.150	0.775	E	0.200	0.772
Decachlorobiphenyl - SS	A	0.004	0.975	B	0.030	0.755	C	0.100	0.686	D	0.150	0.699	E	0.200	0.697

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/29/2006

Initial Calibration Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/29/2006GCD
Instrument ID: GCD
Mean RSD: 8.16

Column: DB5

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
Endosulfan I	TRG	AverageRF	% RSD	7.9		20.0
Endrin ketone	TRG	AverageRF	% RSD	7.7		20.0
4,4'-DDT	TRG	Linear	r	1.000		0.995
alpha-BHC	TRG	AverageRF	% RSD	9.4		20.0
beta-BHC	TRG	AverageRF	% RSD	4.0		20.0
gamma-BHC (Lindane)	TRG	AverageRF	% RSD	2.7		20.0
delta-BHC	TRG	AverageRF	% RSD	4.0		20.0
Heptachlor	TRG	AverageRF	% RSD	3.2		20.0
Aldrin	TRG	AverageRF	% RSD	4.1		20.0
Heptachlor epoxide	TRG	AverageRF	% RSD	1.4		20.0
gamma-Chlordane	TRG	AverageRF	% RSD	5.3		20.0
Methoxychlor	TRG	AverageRF	% RSD	5.5		20.0
alpha-Chlordane	TRG	AverageRF	% RSD	11.4		20.0
4,4'-DDE	TRG	AverageRF	% RSD	9.1		20.0
Dieldrin	TRG	AverageRF	% RSD	7.5		20.0
Endrin	TRG	AverageRF	% RSD	1.1		20.0
Endosulfan II	TRG	AverageRF	% RSD	3.9		20.0
4,4'-DDD	TRG	AverageRF	% RSD	3.0		20.0
Endrin aldehyde	TRG	AverageRF	% RSD	3.7		20.0
Endosulfan sulfate	TRG	Linear	r	1.000		0.995
Tetrachloro-m-xylene	SUR	AverageRF	% RSD	9.9		20.0
Decachlorobiphenyl - SS	SUR	AverageRF	% RSD	16.0		20.0

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/13/2006

Second Source Calibration Verification
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/13/2006GCD
Instrument ID: GCD
File ID: D0313009

Column: DB5

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Toxaphene	0.500	0.495	0.000	0.000	-1.07	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/14/2006

Second Source Calibration Verification
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/14/2006GCD
Instrument ID: GCD
File ID: D0313016

Column: DB5

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Endosulfan I	0.050	0.052	0.052	0.050	NA	3.8	+/- 15.0	Linear	
Endrin ketone	0.050	0.058	0.058	0.050	NA	15.8	+/- 15.0	Linear	
4,4'-DDT	0.050	0.054	0.054	0.050	NA	8.5	+/- 15.0	Linear	
alpha-BHC	0.050	0.054	0.054	0.050	NA	8.2	+/- 15.0	Linear	
beta-BHC	0.050	0.053	0.514	0.547	6.30	NA	+/- 15.0	AverageRF	
gamma-BHC (Lindane)	0.050	0.053	1.475	1.556	5.50	NA	+/- 15.0	AverageRF	
delta-BHC	0.050	0.055	1.393	1.524	9.40	NA	+/- 15.0	AverageRF	
Heptachlor	0.050	0.049	1.472	1.447	-1.70	NA	+/- 15.0	AverageRF	
Aldrin	0.050	0.051	1.296	1.332	2.80	NA	+/- 15.0	AverageRF	
Heptachlor epoxide	0.050	0.051	1.097	1.118	1.90	NA	+/- 15.0	AverageRF	
gamma-Chlordane	0.050	0.053	1.099	1.172	6.60	NA	+/- 15.0	AverageRF	
Methoxychlor	0.050	0.057	0.057	0.050	NA	13.7	+/- 15.0	Linear	
alpha-Chlordane	0.050	0.051	1.102	1.133	2.80	NA	+/- 15.0	AverageRF	
4,4'-DDE	0.050	0.050	0.956	0.956	0.00	NA	+/- 15.0	AverageRF	
Dieldrin	0.050	0.050	1.186	1.192	0.40	NA	+/- 15.0	AverageRF	
Endrin	0.050	0.052	0.981	1.029	4.80	NA	+/- 15.0	AverageRF	
Endosulfan II	0.050	0.051	0.883	0.904	2.40	NA	+/- 15.0	AverageRF	
4,4'-DDD	0.050	0.052	0.770	0.806	4.60	NA	+/- 15.0	AverageRF	
Endrin aldehyde	0.050	0.050	0.636	0.640	0.60	NA	+/- 15.0	AverageRF	
Endosulfan sulfate	0.050	0.052	0.764	0.798	4.60	NA	+/- 15.0	AverageRF	
Tetrachloro-m-xylene	0.100	0.096	0.856	0.827	-3.50	NA	+/- 15.0	AverageRF	
Decachlorobiphenyl - SS	0.100	0.107	0.107	0.100	NA	7.1	+/- 15.0	Linear	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/29/2006

Second Source Calibration Verification
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/29/2006GCD
Instrument ID: GCD
File ID: D0328012

Column: DB5

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Toxaphene	0.500	0.498	0.000	0.000	-0.43	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/29/2006

Second Source Calibration Verification
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/29/2006GCD
Instrument ID: GCD
File ID: D0328021

Column: DB5

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Endosulfan I	0.050	0.049	0.969	0.946	-2.30	NA	+/- 15.0	AverageRF	
Endrin ketone	0.050	0.054	0.836	0.904	8.20	NA	+/- 15.0	AverageRF	
4,4'-DDT	0.050	0.053	0.053	0.050	NA	5.9	+/- 15.0	Linear	
alpha-BHC	0.050	0.052	1.649	1.700	3.10	NA	+/- 15.0	AverageRF	
beta-BHC	0.050	0.056	0.454	0.505	11.40	NA	+/- 15.0	AverageRF	
gamma-BHC (Lindane)	0.050	0.055	1.397	1.537	10.00	NA	+/- 15.0	AverageRF	
delta-BHC	0.050	0.057	1.328	1.522	14.60	NA	+/- 15.0	AverageRF	
Heptachlor	0.050	0.050	1.413	1.427	1.00	NA	+/- 15.0	AverageRF	
Aldrin	0.050	0.052	1.278	1.325	3.60	NA	+/- 15.0	AverageRF	
Heptachlor epoxide	0.050	0.052	1.106	1.159	4.80	NA	+/- 15.0	AverageRF	
gamma-Chlordane	0.050	0.052	1.073	1.116	4.00	NA	+/- 15.0	AverageRF	
Methoxychlor	0.050	0.057	0.341	0.388	13.80	NA	+/- 15.0	AverageRF	
alpha-Chlordane	0.050	0.053	1.119	1.184	5.70	NA	+/- 15.0	AverageRF	
4,4'-DDE	0.050	0.052	0.952	0.985	3.50	NA	+/- 15.0	AverageRF	
Dieldrin	0.050	0.049	1.135	1.114	-1.80	NA	+/- 15.0	AverageRF	
Endrin	0.050	0.054	0.996	1.076	8.10	NA	+/- 15.0	AverageRF	
Endosulfan II	0.050	0.052	0.869	0.902	3.80	NA	+/- 15.0	AverageRF	
4,4'-DDD	0.050	0.050	0.756	0.756	0.00	NA	+/- 15.0	AverageRF	
Endrin aldehyde	0.050	0.053	0.585	0.620	5.90	NA	+/- 15.0	AverageRF	
Endosulfan sulfate	0.050	0.053	0.053	0.050	NA	6.5	+/- 15.0	Linear	
Tetrachloro-m-xylene	0.100	0.101	0.811	0.817	0.70	NA	+/- 15.0	AverageRF	
Decachlorobiphenyl - SS	0.100	0.098	0.762	0.744	-2.50	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/19/2006

Continuing Calibration Verification Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/13/2006GCD
Instrument ID: GCD
File ID: D0319012

Column: DB5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Toxaphene	0.750	0.717	0.000	0.000	-4.43	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/19/2006

Continuing Calibration Verification Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/14/2006GCD
Instrument ID: GCD
File ID: D0319013

Column: DB5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Endosulfan I	0.075	0.068	0.068	0.075	NA	-9.8	+/- 15.0	Linear	
Endrin ketone	0.075	0.074	0.074	0.075	NA	-0.8	+/- 15.0	Linear	
4,4'-DDT	0.075	0.071	0.071	0.075	NA	-5.4	+/- 15.0	Linear	
alpha-BHC	0.075	0.075	0.075	0.075	NA	0.0	+/- 15.0	Linear	
beta-BHC	0.075	0.069	0.514	0.476	-7.50	NA	+/- 15.0	AverageRF	
gamma-BHC (Lindane)	0.075	0.072	1.475	1.415	-4.00	NA	+/- 15.0	AverageRF	
delta-BHC	0.075	0.072	1.393	1.343	-3.60	NA	+/- 15.0	AverageRF	
Heptachlor	0.075	0.068	1.472	1.340	-8.90	NA	+/- 15.0	AverageRF	
Aldrin	0.075	0.070	1.296	1.213	-6.40	NA	+/- 15.0	AverageRF	
Heptachlor epoxide	0.075	0.072	1.097	1.056	-3.80	NA	+/- 15.0	AverageRF	
gamma-Chlordane	0.075	0.069	1.099	1.007	-8.40	NA	+/- 15.0	AverageRF	
Methoxychlor	0.075	0.072	0.072	0.075	NA	-4.0	+/- 15.0	Linear	
alpha-Chlordane	0.075	0.071	1.102	1.043	-5.40	NA	+/- 15.0	AverageRF	
4,4'-DDE	0.075	0.069	0.956	0.882	-7.80	NA	+/- 15.0	AverageRF	
Dieldrin	0.075	0.073	1.186	1.150	-3.00	NA	+/- 15.0	AverageRF	
Endrin	0.075	0.071	0.981	0.924	-5.80	NA	+/- 15.0	AverageRF	
Endosulfan II	0.075	0.067	0.883	0.793	-10.10	NA	+/- 15.0	AverageRF	
4,4'-DDD	0.075	0.068	0.770	0.699	-9.20	NA	+/- 15.0	AverageRF	
Endrin aldehyde	0.075	0.070	0.636	0.590	-7.30	NA	+/- 15.0	AverageRF	
Endosulfan sulfate	0.075	0.070	0.764	0.713	-6.60	NA	+/- 15.0	AverageRF	
Tetrachloro-m-xylene	0.150	0.140	0.856	0.799	-6.70	NA	+/- 15.0	AverageRF	
Decachlorobiphenyl - SS	0.150	0.148	0.148	0.150	NA	-1.1	+/- 15.0	Linear	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/20/2006

Continuing Calibration Verification Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/13/2006GCD
Instrument ID: GCD
File ID: D0319026

Column: DB5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Toxaphene	0.500	0.484	0.000	0.000	-3.30	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/20/2006

Continuing Calibration Verification Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/14/2006GCD
Instrument ID: GCD
File ID: D0319027

Column: DB5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Endosulfan I	0.050	0.045	0.045	0.050	NA	-9.5	+/- 15.0	Linear	
Endrin ketone	0.050	0.049	0.049	0.050	NA	-2.4	+/- 15.0	Linear	
4,4'-DDT	0.050	0.049	0.049	0.050	NA	-2.7	+/- 15.0	Linear	
alpha-BHC	0.050	0.050	0.050	0.050	NA	-0.2	+/- 15.0	Linear	
beta-BHC	0.050	0.048	0.514	0.489	-4.90	NA	+/- 15.0	AverageRF	
gamma-BHC (Lindane)	0.050	0.048	1.475	1.422	-3.60	NA	+/- 15.0	AverageRF	
delta-BHC	0.050	0.049	1.393	1.365	-2.00	NA	+/- 15.0	AverageRF	
Heptachlor	0.050	0.045	1.472	1.323	-10.10	NA	+/- 15.0	AverageRF	
Aldrin	0.050	0.046	1.296	1.195	-7.70	NA	+/- 15.0	AverageRF	
Heptachlor epoxide	0.050	0.045	1.097	0.994	-9.40	NA	+/- 15.0	AverageRF	
gamma-Chlordane	0.050	0.050	1.099	1.096	-0.30	NA	+/- 15.0	AverageRF	
Methoxychlor	0.050	0.049	0.049	0.050	NA	-2.6	+/- 15.0	Linear	
alpha-Chlordane	0.050	0.047	1.102	1.045	-5.20	NA	+/- 15.0	AverageRF	
4,4'-DDE	0.050	0.046	0.956	0.891	-6.80	NA	+/- 15.0	AverageRF	
Dieldrin	0.050	0.047	1.186	1.123	-5.30	NA	+/- 15.0	AverageRF	
Endrin	0.050	0.047	0.981	0.924	-5.80	NA	+/- 15.0	AverageRF	
Endosulfan II	0.050	0.045	0.883	0.793	-10.20	NA	+/- 15.0	AverageRF	
4,4'-DDD	0.050	0.045	0.770	0.688	-10.60	NA	+/- 15.0	AverageRF	
Endrin aldehyde	0.050	0.045	0.636	0.570	-10.30	NA	+/- 15.0	AverageRF	
Endosulfan sulfate	0.050	0.045	0.764	0.692	-9.30	NA	+/- 15.0	AverageRF	
Tetrachloro-m-xylene	0.100	0.087	0.856	0.743	-13.20	NA	+/- 15.0	AverageRF	
Decachlorobiphenyl - SS	0.100	0.099	0.099	0.100	NA	-0.7	+/- 15.0	Linear	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/24/2006

Continuing Calibration Verification Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/13/2006GCD
Instrument ID: GCD
File ID: D0324003

Column: DB5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Toxaphene	0.500	0.526	0.000	0.000	5.27	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/24/2006

Continuing Calibration Verification Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/14/2006GCD
Instrument ID: GCD
File ID: D0324004

Column: DB5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Endosulfan I	0.050	0.046	0.046	0.050	NA	-8.2	+/- 15.0	Linear	
Endrin ketone	0.050	0.049	0.049	0.050	NA	-1.7	+/- 15.0	Linear	
4,4'-DDT	0.050	0.050	0.050	0.050	NA	-0.6	+/- 15.0	Linear	
alpha-BHC	0.050	0.049	0.049	0.050	NA	-1.0	+/- 15.0	Linear	
beta-BHC	0.050	0.047	0.514	0.484	-6.00	NA	+/- 15.0	AverageRF	
gamma-BHC (Lindane)	0.050	0.048	1.475	1.414	-4.10	NA	+/- 15.0	AverageRF	
delta-BHC	0.050	0.049	1.393	1.362	-2.30	NA	+/- 15.0	AverageRF	
Heptachlor	0.050	0.046	1.472	1.347	-8.50	NA	+/- 15.0	AverageRF	
Aldrin	0.050	0.047	1.296	1.209	-6.60	NA	+/- 15.0	AverageRF	
Heptachlor epoxide	0.050	0.048	1.097	1.044	-4.90	NA	+/- 15.0	AverageRF	
gamma-Chlordane	0.050	0.049	1.099	1.080	-1.70	NA	+/- 15.0	AverageRF	
Methoxychlor	0.050	0.050	0.050	0.050	NA	0.5	+/- 15.0	Linear	
alpha-Chlordane	0.050	0.049	1.102	1.075	-2.50	NA	+/- 15.0	AverageRF	
4,4'-DDE	0.050	0.046	0.956	0.886	-7.40	NA	+/- 15.0	AverageRF	
Dieldrin	0.050	0.047	1.186	1.114	-6.10	NA	+/- 15.0	AverageRF	
Endrin	0.050	0.048	0.981	0.947	-3.50	NA	+/- 15.0	AverageRF	
Endosulfan II	0.050	0.047	0.883	0.828	-6.20	NA	+/- 15.0	AverageRF	
4,4'-DDD	0.050	0.049	0.770	0.759	-1.50	NA	+/- 15.0	AverageRF	
Endrin aldehyde	0.050	0.046	0.636	0.584	-8.20	NA	+/- 15.0	AverageRF	
Endosulfan sulfate	0.050	0.045	0.764	0.694	-9.10	NA	+/- 15.0	AverageRF	
Tetrachloro-m-xylene	0.100	0.088	0.856	0.758	-11.40	NA	+/- 15.0	AverageRF	
Decachlorobiphenyl - SS	0.100	0.100	0.100	0.100	NA	0.2	+/- 15.0	Linear	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/24/2006

Continuing Calibration Verification Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/13/2006GCD
Instrument ID: GCD
File ID: D0324012

Column: DB5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Toxaphene	0.750	0.688	0.000	0.000	-8.23	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/24/2006

Continuing Calibration Verification Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/14/2006GCD
Instrument ID: GCD
File ID: D0324013

Column: DB5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Endosulfan I	0.075	0.072	0.072	0.075	NA	-3.7	+/- 15.0	Linear	
Endrin ketone	0.075	0.074	0.074	0.075	NA	-1.5	+/- 15.0	Linear	
4,4'-DDT	0.075	0.074	0.074	0.075	NA	-1.8	+/- 15.0	Linear	
alpha-BHC	0.075	0.076	0.076	0.075	NA	1.9	+/- 15.0	Linear	
beta-BHC	0.075	0.067	0.514	0.460	-10.70	NA	+/- 15.0	AverageRF	
gamma-BHC (Lindane)	0.075	0.072	1.475	1.416	-3.90	NA	+/- 15.0	AverageRF	
delta-BHC	0.075	0.070	1.393	1.303	-6.50	NA	+/- 15.0	AverageRF	
Heptachlor	0.075	0.068	1.472	1.334	-9.40	NA	+/- 15.0	AverageRF	
Aldrin	0.075	0.071	1.296	1.222	-5.60	NA	+/- 15.0	AverageRF	
Heptachlor epoxide	0.075	0.071	1.097	1.043	-4.90	NA	+/- 15.0	AverageRF	
gamma-Chlordane	0.075	0.072	1.099	1.058	-3.70	NA	+/- 15.0	AverageRF	
Methoxychlor	0.075	0.073	0.073	0.075	NA	-2.8	+/- 15.0	Linear	
alpha-Chlordane	0.075	0.075	1.102	1.108	0.50	NA	+/- 15.0	AverageRF	
4,4'-DDE	0.075	0.069	0.956	0.881	-7.90	NA	+/- 15.0	AverageRF	
Dieldrin	0.075	0.069	1.186	1.093	-7.80	NA	+/- 15.0	AverageRF	
Endrin	0.075	0.071	0.981	0.924	-5.80	NA	+/- 15.0	AverageRF	
Endosulfan II	0.075	0.068	0.883	0.804	-8.90	NA	+/- 15.0	AverageRF	
4,4'-DDD	0.075	0.071	0.770	0.728	-5.40	NA	+/- 15.0	AverageRF	
Endrin aldehyde	0.075	0.064	0.636	0.544	-14.50	NA	+/- 15.0	AverageRF	
Endosulfan sulfate	0.075	0.068	0.764	0.688	-9.90	NA	+/- 15.0	AverageRF	
Tetrachloro-m-xylene	0.150	0.139	0.856	0.794	-7.30	NA	+/- 15.0	AverageRF	
Decachlorobiphenyl - SS	0.150	0.148	0.148	0.150	NA	-1.5	+/- 15.0	Linear	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/31/2006

Continuing Calibration Verification Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/29/2006GCD
Instrument ID: GCD
File ID: D0330018

Column: DB5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Toxaphene	0.750	0.784	0.000	0.000	6.03	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/31/2006

Continuing Calibration Verification Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/29/2006GCD
Instrument ID: GCD
File ID: D0330019

Column: DB5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Endosulfan I	0.075	0.071	0.969	0.923	-4.80	NA	+/- 15.0	AverageRF	
Endrin ketone	0.075	0.070	0.836	0.781	-6.60	NA	+/- 15.0	AverageRF	
4,4'-DDT	0.075	0.071	0.071	0.075	NA	-5.1	+/- 15.0	Linear	
alpha-BHC	0.075	0.071	1.649	1.566	-5.00	NA	+/- 15.0	AverageRF	
beta-BHC	0.075	0.075	0.454	0.454	0.00	NA	+/- 15.0	AverageRF	
gamma-BHC (Lindane)	0.075	0.077	1.397	1.436	2.80	NA	+/- 15.0	AverageRF	
delta-BHC	0.075	0.076	1.328	1.339	0.80	NA	+/- 15.0	AverageRF	
Heptachlor	0.075	0.073	1.413	1.380	-2.30	NA	+/- 15.0	AverageRF	
Aldrin	0.075	0.072	1.278	1.234	-3.40	NA	+/- 15.0	AverageRF	
Heptachlor epoxide	0.075	0.074	1.106	1.097	-0.80	NA	+/- 15.0	AverageRF	
gamma-Chlordane	0.075	0.075	1.073	1.075	0.20	NA	+/- 15.0	AverageRF	
Methoxychlor	0.075	0.074	0.341	0.338	-0.90	NA	+/- 15.0	AverageRF	
alpha-Chlordane	0.075	0.073	1.119	1.096	-2.10	NA	+/- 15.0	AverageRF	
4,4'-DDE	0.075	0.071	0.952	0.904	-5.00	NA	+/- 15.0	AverageRF	
Dieldrin	0.075	0.069	1.135	1.039	-8.40	NA	+/- 15.0	AverageRF	
Endrin	0.075	0.073	0.996	0.972	-2.40	NA	+/- 15.0	AverageRF	
Endosulfan II	0.075	0.070	0.869	0.808	-7.10	NA	+/- 15.0	AverageRF	
4,4'-DDD	0.075	0.068	0.756	0.684	-9.60	NA	+/- 15.0	AverageRF	
Endrin aldehyde	0.075	0.071	0.585	0.557	-4.80	NA	+/- 15.0	AverageRF	
Endosulfan sulfate	0.075	0.072	0.072	0.075	NA	-4.4	+/- 15.0	Linear	
Tetrachloro-m-xylene	0.150	0.144	0.811	0.781	-3.70	NA	+/- 15.0	AverageRF	
Decachlorobiphenyl - SS	0.150	0.132	0.762	0.673	-11.80	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/31/2006

Continuing Calibration Verification Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/29/2006GCD
Instrument ID: GCD
File ID: D0330030

Column: DB5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Toxaphene	0.500	0.526	0.000	0.000	6.03	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/31/2006

Continuing Calibration Verification Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 03/29/2006GCD
Instrument ID: GCD
File ID: D0330031

Column: DB5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Endosulfan I	0.050	0.048	0.969	0.920	-5.00	NA	+/- 15.0	AverageRF	
Endrin ketone	0.050	0.046	0.836	0.762	-8.90	NA	+/- 15.0	AverageRF	
4,4'-DDT	0.050	0.047	0.047	0.050	NA	-6.6	+/- 15.0	Linear	
alpha-BHC	0.050	0.047	1.649	1.549	-6.10	NA	+/- 15.0	AverageRF	
beta-BHC	0.050	0.051	0.454	0.461	1.60	NA	+/- 15.0	AverageRF	
gamma-BHC (Lindane)	0.050	0.051	1.397	1.421	1.80	NA	+/- 15.0	AverageRF	
delta-BHC	0.050	0.049	1.328	1.301	-2.00	NA	+/- 15.0	AverageRF	
Heptachlor	0.050	0.048	1.413	1.363	-3.50	NA	+/- 15.0	AverageRF	
Aldrin	0.050	0.047	1.278	1.211	-5.30	NA	+/- 15.0	AverageRF	
Heptachlor epoxide	0.050	0.048	1.106	1.072	-3.10	NA	+/- 15.0	AverageRF	
gamma-Chlordane	0.050	0.048	1.073	1.025	-4.50	NA	+/- 15.0	AverageRF	
Methoxychlor	0.050	0.049	0.341	0.336	-1.40	NA	+/- 15.0	AverageRF	
alpha-Chlordane	0.050	0.047	1.119	1.055	-5.80	NA	+/- 15.0	AverageRF	
4,4'-DDE	0.050	0.046	0.952	0.868	-8.80	NA	+/- 15.0	AverageRF	
Dieldrin	0.050	0.046	1.135	1.052	-7.20	NA	+/- 15.0	AverageRF	
Endrin	0.050	0.048	0.996	0.962	-3.40	NA	+/- 15.0	AverageRF	
Endosulfan II	0.050	0.046	0.869	0.796	-8.40	NA	+/- 15.0	AverageRF	
4,4'-DDD	0.050	0.044	0.756	0.666	-11.90	NA	+/- 15.0	AverageRF	
Endrin aldehyde	0.050	0.046	0.585	0.536	-8.40	NA	+/- 15.0	AverageRF	
Endosulfan sulfate	0.050	0.047	0.047	0.050	NA	-6.8	+/- 15.0	Linear	
Tetrachloro-m-xylene	0.100	0.093	0.811	0.755	-6.90	NA	+/- 15.0	AverageRF	
Decachlorobiphenyl - SS	0.100	0.088	0.762	0.674	-11.60	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009

Analysis Run Log
ORGANOCHLORINE PESTICIDES

Analysis Method: SW8081

Instrument ID: GCD
Column: DB5

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
D0313004	PSTD1 CHLRTOX	PSTD1 CHLRTOX	03/13/2006	14:53		03/13/2006	15:23
D0313005	PSTD2 CHLRTOX	PSTD2 CHLRTOX	03/13/2006	15:45		03/13/2006	16:15
D0313006	PSTD3 CHLRTOX	PSTD3 CHLRTOX	03/13/2006	16:37		03/13/2006	17:07
D0313007	PSTD4 CHLRTOX	PSTD4 CHLRTOX	03/13/2006	17:29		03/13/2006	17:59
D0313008	PSTD5 CHLRTOX	PSTD5 CHLRTOX	03/13/2006	18:21		03/13/2006	18:51
D0313009	QCALTSTD	PSTD3 CHLRTOX	03/13/2006	19:12		03/13/2006	19:42
D0313011	PSTD1 PEST	PSTD1 PEST	03/13/2006	20:56		03/13/2006	21:26
D0313012	PSTD2 PEST	PSTD2 PEST	03/13/2006	21:48		03/13/2006	22:18
D0313013	PSTD3 PEST	PSTD3 PEST	03/13/2006	22:40		03/13/2006	23:10
D0313014	PSTD4 PEST	PSTD4 PEST	03/13/2006	23:32		03/14/2006	00:02
D0313015	PSTD5 PEST	PSTD5 PEST	03/14/2006	00:23		03/14/2006	00:53
D0313016	QCALTSTD	PSTD3 PEST	03/14/2006	01:15		03/14/2006	01:45
D0319012	PSTD4 CHLRTOX	PSTD4 CHLRTOX	03/19/2006	19:20		03/19/2006	19:50
D0319013	PSTD4 PEST	PSTD4 PEST	03/19/2006	20:11		03/19/2006	20:41
D0319015	Laboratory Control Sample	PWB10313LCS	03/19/2006	21:55		03/19/2006	22:25
D0319016	Laboratory Control Sample Duplicate	PWB10313LCSD	03/19/2006	22:47		03/19/2006	23:17
D0319017	Method Blank	PWB10313	03/19/2006	23:39		03/20/2006	00:09
D0319026	PSTD3 CHLRTOX	PSTD3 CHLRTOX	03/20/2006	07:25		03/20/2006	07:55
D0319027	PSTD3 PEST	PSTD3 PEST	03/20/2006	08:16		03/20/2006	08:46
D0324003	PSTD3 CHLRTOX	PSTD3 CHLRTOX	03/24/2006	10:36		03/24/2006	11:06
D0324004	PSTD3 PEST	PSTD3 PEST	03/24/2006	11:28		03/24/2006	11:58
D0324009	DAESP03CL	DH009002	03/24/2006	15:47		03/24/2006	16:17
D0324012	PSTD4 CHLRTOX	PSTD4 CHLRTOX	03/24/2006	18:22		03/24/2006	18:52
D0324013	PSTD4 PEST	PSTD4 PEST	03/24/2006	19:14		03/24/2006	19:44
D0328007	PSTD1 CHLRTOX	PSTD1 CHLRTOX	03/28/2006	21:27		03/28/2006	21:57
D0328008	PSTD2 CHLRTOX	PSTD2 CHLRTOX	03/28/2006	22:18		03/28/2006	22:48
D0328009	PSTD3 CHLRTOX	PSTD3 CHLRTOX	03/28/2006	23:10		03/28/2006	23:40
D0328010	PSTD4 CHLRTOX	PSTD4 CHLRTOX	03/29/2006	00:02		03/29/2006	00:32
D0328011	PSTD5 CHLRTOX	PSTD5 CHLRTOX	03/29/2006	00:54		03/29/2006	01:24
D0328012	QCALTSTD	PSTD3 CHLRTOX	03/29/2006	01:46		03/29/2006	02:16
D0328014	PSTD1 PEST	PSTD1 PEST	03/29/2006	03:29		03/29/2006	03:59
D0328015	PSTD2 PEST	PSTD2 PEST	03/29/2006	04:21		03/29/2006	04:51
D0328016	PSTD3 PEST	PSTD3 PEST	03/29/2006	05:13		03/29/2006	05:43
D0328017	PSTD4 PEST	PSTD4 PEST	03/29/2006	06:04		03/29/2006	06:34
D0328018	PSTD5 PEST	PSTD5 PEST	03/29/2006	06:56		03/29/2006	07:26
D0328021	QCALTSTD	PSTD3 PEST	03/29/2006	09:47		03/29/2006	10:17
D0330018	PSTD4 CHLRTOX	PSTD4 CHLRTOX	03/31/2006	00:22		03/31/2006	00:52

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009

Analysis Run Log
ORGANOCHLORINE PESTICIDES

Analysis Method: SW8081

Instrument ID: GCD
Column: DB5

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
D0330019	PSTD4 PEST	PSTD4 PEST	03/31/2006	01:13		03/31/2006	01:43
D0330021	Laboratory Control Sample	PWB10329LCS	03/31/2006	02:57		03/31/2006	03:27
D0330022	Laboratory Control Sample Duplicate	PWB10329LCSD	03/31/2006	03:49		03/31/2006	04:19
D0330023	Method Blank	PWB10329	03/31/2006	04:40		03/31/2006	05:10
D0330026	DAESP03CLRE	DH009002RE	03/31/2006	07:15		03/31/2006	07:45
D0330030	PSTD3 CHLRTOX	PSTD3 CHLRTOX	03/31/2006	10:42		03/31/2006	11:12
D0330031	PSTD3 PEST	PSTD3 PEST	03/31/2006	11:34		03/31/2006	12:04

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Extracted: 03/13/2006

Extraction Prep Log
ORGANOCHLORINE PESTICIDES

Extaction Method: SW3520
Analysis Method: SW8081

Extraction Lot: PWB10313
Level:

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	PWB10313	NA	NA	1.000 L	10	NA	
Laboratory Control Sample	PWB10313LCS	NA	NA	1.000 L	10	NA	
Laboratory Control Sample Duplicate	PWB10313LCSD	NA	NA	1.000 L	10	NA	
DAESP03CL	DH009002	03/08/2006	03/09/2006	1.050 L	10	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Extracted: 03/29/2006

Extraction Prep Log
ORGANOCHLORINE PESTICIDES

Extaction Method: SW3520
Analysis Method: SW8081

Extraction Lot: PWB10329
Level:

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	PWB10329	NA	NA	1.000 L	10	NA	
Laboratory Control Sample	PWB10329LCS	NA	NA	1.000 L	10	NA	
Laboratory Control Sample Duplicate	PWB10329LCSD	NA	NA	1.000 L	10	NA	
DAESP03CLRE	DH009002RE	03/08/2006	03/09/2006	1.040 L	10	NA	*

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO **Service Request:** DH009
Project: PRESIDIO

Holding Time Summary
ORGANOCHLORINE PESTICIDES

Analysis Method: SW8081

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
DAESP03CL	03/08/2006	03/09/2006	03/13/2006	7	5	N/A	N/A	N/A	03/24/2006	40	11	
DAESP03CLRE	03/08/2006	03/09/2006	03/29/2006	7	21	N/A	N/A	N/A	03/31/2006	40	2	*

Comments:

Support Documentation

Liquid-Liquid Extraction, 3520C

Pesticide/PCB Water

Date	3-13-06
Time	16:00

Batches: DH005, DH008, DH009

Client(s): Presidio, EA/Andersen

Analytical Method(s)

- [x] 8081A
- [x] 8082
- [ ] CLP
- [ ] TCLP,1311

Solvent Lots

DCM	45348 3/16/13
Acetone	—
Hexane	45083 3/15/6

Spikes

Surrogate: 13 -EXS- 78A 3
Amt. 1.0 ml Exp: 3/15/06

Spike 1: 13 -EXS- 84A90
Amt. 1.0 ml Exp: 3/27/06

Spike 2: 13 -EXS- 86A
Amt. 1.0 ml Exp: 5/7/06

Spike 3: -EXS-
Amt. ml Exp:

Spiked by: [illegible] Witness: [illegible]

Cleanups

- [ ] GPC, 3640A — Calib: ; By/date: ; ID:
- *Initial KD* [ ] 1.0ml aliquot saved — By/date: ; vol: ml
- [ ] Florisil, 3620B — By/date: ; Lot:
- [ ] Sulfuric Acid, 3665A — By/date: ; Lot:
- [ ] Mercury, 3660B — By/date: ; Lot:
- [x] No cleanups

Test Code(s): 8182

Sample ID	Surrogate	Spike 1	Spike 2	Spike 3	Amt (1L)	Final KD (H2O bath temp 91.4 °C; Date & Volume)	Relinq. Date
	X	X	X	X	By:	By: MMS 3/15/6	By: MMS 3/15/6
PWB1	X				1.0	10.0 ml	
PWL1 → Pest	X	X					
PWL2	X	X					
L-3 → Aro	X		X				
L-4	X		X				
DH005-4P	X				1.05		
-5S	X						
-6P	X						
DH008-15B	X						
DH009-2L	X						

3-17-06

- [ ] Completed ms/msd
- [x] Sample limited, no ms/msd, duplicate LCS

082

Comments:

Peer Review By:

Organic Extractions Dept.
CAS-Redding

Liquid-Liquid Extraction, 3520C

Pesticide/PCB Water

Date	3-29-06
Time	5:00

Batches: DH005, DH009

Client(s): Presidio

Analytical Method(s)

- [X] 8081A
- [X] 8082
- [ ] CLP
- [ ] TCLP,1311

Solvent Lots

DCM	45348 3/28-3/29
Acetone	—
Hexane	45320 2/1 3/25

Spikes

Surrogate	13-EXS-91A-2		
Amt.	1.0 ml	Exp:	6/14/06
Spike 1	13-EXS-94A		
Amt.	1.0 ml	Exp:	4/05/06
Spike 2	13-EXS-95A		
Amt.	1.0 ml	Exp:	6/28/06
Spike 3	-EXS-		
Amt.	ml	Exp:	

Spiked by: [illegible] Witness: [illegible]

Cleanups

- [ ] GPC, 3640A — Calib ____ By/date ____ ID ____
- *Initial KD* [ ] 1.0ml aliquot saved — By/date ____ vol ____ ml
- [ ] Florisil, 3620B — By/date ____ Lot ____
- [ ] Sulfuric Acid, 3665A — By/date ____ Lot ____
- [ ] Mercury, 3660B — By/date ____ Lot ____
- [X] No cleanups

Test Code(s): 3081/8082

Sample ID	Surrogate	Spike 1	Spike 2	Spike 3	Amt (1L)	Final KD (H2O bath temp 90 °C) Date & Volume	Relinq. Date
	X	X	X	X	By: JP	By: CLE 3/30/06	By: CLE
PWB1	X				1.0	10.0ml	3/30/06
PWL1 → Pest	X	X			↓	↓	↓
PWL2	X	X			↓	↓	↓
L-3 → Aro	X		X		↓	↓	↓
L-4	X		X		↓	↓	↓
DH005-4a	X				1.05	↓	↓
↓ -6T	X				1.04	↓	↓
DH009-2R	X				↓	↓	↓

3-29-06 JP

- [ ] Completed ms/msd
- [X] Sample limited, no ms/msd, duplicate LCS

092

Comments:

Peer Review By:

Organic Extractions Dept.
CAS-Redding

Columbia Analytical Services

Herb/Pest/PCB Injection Log
Varian 3600
GC D

Date
3-13-06

Analyst: JB
Method: GC8081A

Directory: D060313
Internal Standard: 22-GC-248-1/2

Page: 8

Filename	Laboratory ID	F	Matrix	DL Factor	Reference Standard	Comments
D060313 01	PIBLK 03/13		STD	1x	22-GC -34A	
02	PGM 03/13		↓	↓	↓ -27B	
03	WASH					
04	PSTD1 CALTOX		STD	1x	22-GC -35A	
05	2				-35B	
06	3				-35C	
07	4				-35D	
08	5				-35E	
09	3				-35F	
10	WASH					
11	PSTD1 PEST		STD	1x	22-GC -35G	
12	2				-35H	
13	3				-35I	
14	4				-35J	
15	5				-35K	
16	3				-35L	
17	WASH					
18	PSB10308LCS		SOIL	1x		
19	PSB10308					
20	DG991 001					need 5x KBE
21	001MS					
22	001MSD					
23	002					need 2, 5, 20x
24	DG992 001			10x		ran 10x due to dark, thick black matrix
25	WASH					

Columbia Analytical Services

Herb/Pest/PCB Injection Log
Varian 3600
GC D

Date
3-19-06

Analyst: JB
Method: GC8081A

Directory: D060319
Internal Standard: 22-4C-24B-1/2

Filename		Laboratory ID	F	Matrix	DL Factor	Reference Standard	Comments
D060319	01	PEBLK 03/19		STD	1x	22-4C -34A	
	02	PEM 03/19		↓	↓	-27B	
	03	[redacted]				-35C	
	04	↓ [redacted]		↓	↓	-35I	
	05	WASH					
	06	DG978 001		SOIL	100		
	07	002		↓	10		
	08	003			100		
	09	WASH					
	10	↓					
	11	PEM 03/19		STD	1x	22-4C -27B	
	12	[redacted]		↓	↓	-35D	
	13	↓ [redacted]		↓	↓	-35J	
	14	WASH					
	15	PWB 0313LCS		H_2O	1x		TCX 90 DCB 85
	16	LCSD		↓	↓		TCX 77 DCB 77
	17	PWB 0313					TCX 88 DCB 78
	18	DH008 015	B	↓	↓		
	19	PSB1 0310LCS		SOIL	1x		
	20	PSB10310		↓	↓		
	21	DH008 001	A	↓	4		
	22	001	A	↓	40		DL
	23	WASH					
	24	WASH					
	25	PEM 03/19		STD	1x	22-4C -27B	

Columbia Analytical Services

Herb/Pest/PCB Injection Log
Varian 3600
GC D

Date
3-19-06

Analyst: dB
Method: GC8081A

Directory: D060319
Internal Standard: 22-4C-24B-1/2

Page: 14

Filename		Laboratory ID		F	Matrix	DL Factor	Reference Standard	Comments
D060319	26	PSTD3 CHLRTOX			STD	1x	22-4C —35C	
	27	↓ PEST			↓	↓	—35I	
	28	WASH						
	29	DH008	002	A	SOIL	5		
	30	↓	002	A	↓	50		DL
	31		003	A		2		
	32	↓	003	A		20		DL
	33	DG978	001			2500		
	34	↓	002			5		*
	35	↓	003		↓	2000		*
	36	WASH						
	37	DG978	001		SOIL	5000		*
	38	WASH						
	39	PSTD4	CHLRTOX		STD	1x	22-4C —35D	
	40	↓	PEST		↓	↓	—35J	
	41	PIBLK	03/20		STD	1x	—34A	
	42	PEM	03/20		↓	↓	—27B	
	43	PSTD4	CHLRTOX				—35D	
	44	↓	PEST		↓	↓	—35J	
	45	WASH						
	46	DH008	004	A	SOIL	2		
	47	↓	004	A	↓	20		DL
	48		005	A		2		
	49	↓	005	A	↓	20		DL
	50	↓	006	A	↓	2		DL

Columbia Analytical Services

Herb/Pest/PCB Injection Log
Varian 3600
GC D

Date
3-24-06

Analyst: HB
Method: GC8081A/608

Directory: D060327
Internal Standard: 22-GC-248-1/2

Page: 20

Filename		Laboratory ID	F	Matrix	DL Factor	Reference Standard	Comments
D060324	01	PJBLK 03/24		STD	1x	22-GC-34A	
	02	PEM 03/24				-27B	
	03	PSTD3 CHLRTOX				-35C	
	04	PEST				-35I	
	05	WASH					
	06	DH005 004		H2O	1x		TCX: 58 DCB: 45
	07	005					72 48
	08	006					54 28
	09	DH009 002					63 21
	10	WASH					
	11	PEM 03/24		STD	1x	22-GC-27B	
	12	PSTD4 CHLRTOX				-35D	
	13	PEST				-35J	
	14	WASH					
	15	PWB10324LCS		H2O	1x		
	16	LCSD					
	17	PWB10324					
	18	L0600537-001					
	19	-001					Post
	20	-002					
	21	-002					Post
	22	-003					
	23	-003					Post
	24	WASH					
	25	PSTD3CHLRTOX		STD	1x	22-GC-35C	
	26	PEST				-35I	
	27	WASH					

Columbia Analytical Services

Herb/Pest/PCB Injection Log
Varian 3600
GC D

Date
3-28-06

Analyst: JB
Method: GC8081A

Directory: D060328
Internal Standard: 22-GC-248-1/2

Page: 22

Filename	Laboratory ID	F	Matrix	DL Factor	Reference Standard	Comments
D060328 01	WASH					swabbed inj port; replaced septa
02	↓					
03						
04	PIBLK 03/28		STD	1x	22-GC-34A	
05	PEM 03/28		↓	↓	-27B	
06	WASH					
07	PSTD1 CHLORIN		STD	1x	22-GC-35A	
08	2				-35B	
09	3				-35C	
10	4				-35D	
11	5				-35E	
12	3				-35F	
13	WASH					
14	PSTD1 PEST		STD	1x	22-GC-35G	
15	2				-35H	
16	3				-35I	
17	4				-35J	
18	5				-35K	
19	3				-35L	3 cmpds high 1°
20	WASH					
21	PSTD3 PEST		STD	1x	22-GC-35L	PASS!! 1° Meth (15.1) 2°
22	WASH					

Columbia Analytical Services

Herb/Pest/PCB Injection Log
Varian 3600
GC D

Date
3-30-06

Analyst: JB
Method: D060330 GC8081A

Directory: D060330
Internal Standard: 22-66-24B-1/2

Page: 24

Filename	Laboratory ID	F	Matrix	DL Factor	Reference Standard	Comments
D060330 01	PTBLK 03/30		STD	1x	22-66-34A	
02	PEM 03/30		↓	↓	↓ -27B	
03	PST03 CHLRTOX				-35C	
04	↓ PEST		↓	↓	↓ -35I	
05	WASH					
06	D0600126-003	A	SOIL	20x		
07	DH008-009		↓	20x		
08	PSB10324LCS			1x		
09	PSB10324			↓		
10	D0600058-001	.01				
11	↓ 001MS	↓				
12	↓ 001MSD	↓	↓	↓		
13	WASH					
14	D0600058-002	.01	SOIL	1x		
15	WASH					
16	↓					
17	PCM 03/30		STD	1x	22-66-27B	
18	PST04 CHLRTOX		↓	↓	↓ -35D	
19	↓ PEST				-35J	
20	WASH					
21	PWB10329LCS		H_2O	1x		
22	LCSD		↓	↓		
23	PWB10329					
24	DH005-004RE					
25	-006RE		↓	↓		

Columbia Analytical Services

Herb/Pest/PCB Injection Log
Varian 3600
GC D

Date
3-30-06

Analyst: LB
Method: GC8081A

Directory: D060330
Internal Standard: 22-4C-24B-1/2
22-4C-37A-1/2

Page: 25

Filename		Laboratory ID	F	Matrix	DL Factor	Reference Standard	Comments
D060330	26	[redacted]		H_2O	1x		
	27	-005		↓	↓		re-analysis
	28	WASH					
	29	WASH					
	30	[redacted]		STD	1x	22-4C —	
	31	↓ [redacted]		↓	↓	—	
	32	WASH					

3/31/06 TS

Method Detection Limit Study

Columbia Analytical Services
Redding, CA

Analysis Method:	SW8081	**Analyst:**	J. Beckett
Extraction Method:	SW3520	**Instrument:**	GCD
Matrix:	WATER	**Description:**	Combined MDL for Col.1 and Col. 2
MDL Effective Date:	1/1/2006	**Department:**	GS

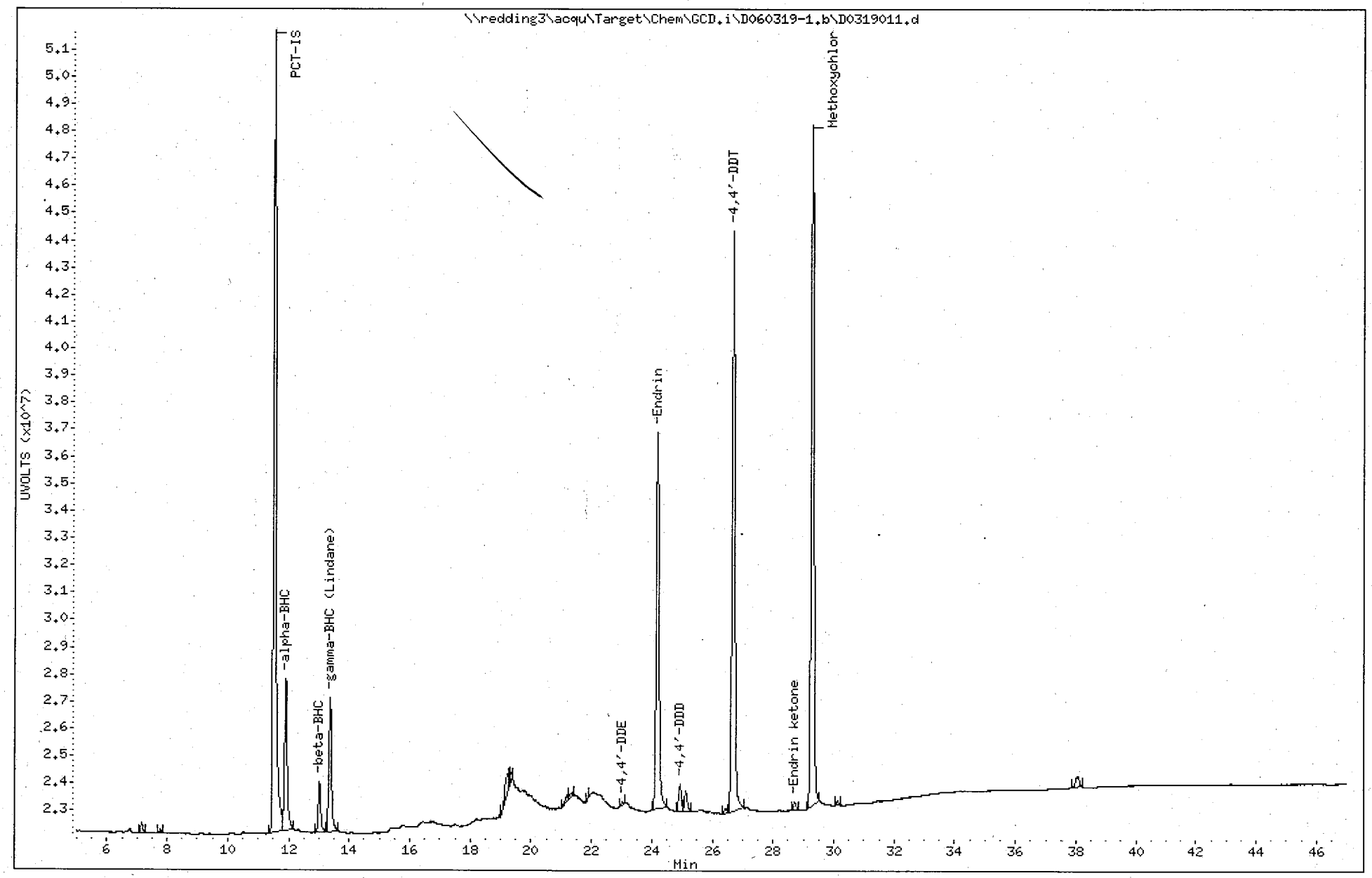
#	Compound	CAS No.	Date	MDL	UG/L	1	2	3	4	5	6	7	8	Mean	Std Dev	MDL Check	True Value	%Rec
1	ALPHA-BHC	319-84-6	12/9/2005	0.0025	0.0125	0.0117	0.0116	0.0123	0.0136	0.0126	0.0121	0.0107	0.0123	0.0121	0.0008	0.0087	0.0063	138.66
2	BETA-BHC	319-85-7	12/9/2005	0.0029	0.0125	0.0100	0.0098	0.0105	0.0106	0.0124	0.0113	0.0093	0.0102	0.0105	0.0010	0.0036	0.0063	58.34
3	GAMMA-BHC	58-89-9	12/9/2005	0.0034	0.0125	0.0097	0.0098	0.0109	0.0100	0.0127	0.0118	0.0099	0.0116	0.0108	0.0011	0.0035	0.0063	55.58
4	DELTA-BHC	319-86-8	12/9/2005	0.0022	0.0125	0.0103	0.0098	0.0100	0.0096	0.0088	0.0102	0.0082	0.0094	0.0095	0.0007	0.0039	0.0063	62.54
5	HEPTACHLOR	76-44-8	12/9/2005	0.0027	0.0125	0.0092	0.0094	0.0099	0.0109	0.0117	0.0110	0.0097	0.0098	0.0102	0.0009	0.0068	0.0063	108.42
6	ALDRIN	309-00-2	12/9/2005	0.0026	0.0125	0.0075	0.0076	0.0069	0.0074	0.0085	0.0090	0.0062	0.0074	0.0076	0.0009	0.0027	0.0063	43.31
7	HEPTACHLOR EPOXIDE	1024-57-3	12/9/2005	0.0029	0.0125	0.0107	0.0117	0.0109	0.0119	0.0124	0.0113	0.0093	0.0109	0.0111	0.0010	0.0062	0.0063	99.10
8	g-CHLORDANE	5566-34-7	12/9/2005	0.0032	0.0125	0.0082	0.0102	0.0101	0.0098	0.0112	0.0115	0.0102	0.0090	0.0100	0.0011	0.0049	0.0063	78.21
9	ENDOSULFAN I	959-98-8	12/9/2005	0.0032	0.0125	0.0094	0.0109	0.0106	0.0111	0.0130	0.0117	0.0104	0.0104	0.0109	0.0011	0.0038	0.0063	60.96
10	a-CHLORDANE	5103-71-9	12/9/2005	0.0032	0.0125	0.0096	0.0097	0.0098	0.0099	0.0123	0.0115	0.0100	0.0093	0.0102	0.0011	0.0038	0.0063	60.88
11	4,4'-DDE	72-55-9	12/9/2005	0.0066	0.0125	0.0042	0.0094	0.0093	0.0100	0.0116	0.0108	0.0088	0.0090	0.0091	0.0022	0.0037	0.0063	59.26
12	DIELDRIN	60-57-1	12/9/2005	0.0031	0.0125	0.0092	0.0094	0.0096	0.0104	0.0122	0.0101	0.0089	0.0095	0.0099	0.0010	0.0039	0.0063	62.37
13	ENDRIN	72-20-8	12/9/2005	0.0027	0.0125	0.0099	0.0096	0.0106	0.0100	0.0123	0.0110	0.0097	0.0101	0.0104	0.0009	0.0039	0.0063	63.04
14	ENDOSULFAN II	33213-65-9	12/9/2005	0.0024	0.0125	0.0096	0.0079	0.0097	0.0097	0.0094	0.0097	0.0081	0.0083	0.0090	0.0008	0.0048	0.0063	77.47
15	4,4'-DDD	72-54-8	12/9/2005	0.0025	0.0125	0.0105	0.0094	0.0100	0.0108	0.0107	0.0115	0.0088	0.0101	0.0102	0.0008	0.0042	0.0063	67.60
16	ENDRIN ALDEHYDE	7421-93-4	12/9/2005	0.0124	0.0125	0.0123	0.0173	0.0208	0.0226	0.0210	0.0212	0.0183	0.0264	0.0200	0.0041	0.0032	0.0063	51.66
17	ENDOSULFAN SULFATE	1031-07-8	12/9/2005	0.0059	0.0125	0.0122	0.0123	0.0134	0.0087	0.0146	0.0145	0.0110	0.0113	0.0122	0.0020	0.0055	0.0063	88.05
18	4,4'-DDT	50-29-3	12/9/2005	0.0024	0.0125	0.0101	0.0093	0.0089	0.0105	0.0098	0.0108	0.0089	0.0087	0.0096	0.0008	0.0037	0.0063	59.10
19	ENDRIN KETONE	53494-70-5	12/9/2005	0.0065	0.0125	0.0084	0.0053	0.0092	0.0092	0.0099	0.0039	0.0088	0.0092	0.0080	0.0022	0.0045	0.0063	71.55
20	METHOXYCHLOR	72-43-5	12/9/2005	0.0097	0.0125	0.0114	0.0150	0.0198	0.0180	0.0182	0.0186	0.0131	0.0126	0.0158	0.0032	0.0046	0.0063	74.08
21	TOXAPHENE	8001-35-2	12/9/2005	0.0651	0.2500	0.1604	0.2064	0.1829	0.2157	0.2067	0.1737	0.1660	0.2080	0.1900	0.0217	0.0892	0.125	71.34
22	CHLORDANE (TECHNICAL)	57-74-9	12/9/2005	0.0530	0.2500	0.2305	0.2355	0.2317	0.2326	0.2624	0.2465	0.1996	0.2390	0.2347	0.0177	0.1125	0.125	90.00
																		#DIV/0!

Data File: \\redding3\acqu\Target\Chem\GCD.i\D060319-1.b\D0319011.d
Date : 19-MAR-2006 18:28
Client ID: PEM 03/19
Sample Info: PEM 03/19

Instrument: GCD.i

Operator: SW846 8081A
Column diameter: 0.53

Column phase: DB5



7D
PESTICIDE BREAKDOWN

Lab Name: COLUMBIA ANALYTICAL SERVICES Case No.: DH005 SDG No.: DH005

GC Column: DB5 ID: 0.53 (mm) Init. Calib. Date(s): 03/13/06 03/14/06

Lab File ID: D0319011

Date Analyzed :03/19/06

Time Analyzed :1828

DDE AREA = 500345
DDD AREA = 6001477
DDT AREA = 133235500
Endrin Aldehyde AREA = 0
Endrin Ketone AREA = 1780685
Endrin AREA = 92809202

4,4'-DDT % breakdown (1): 4.65 Endrin % breakdown (1): 1.88

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

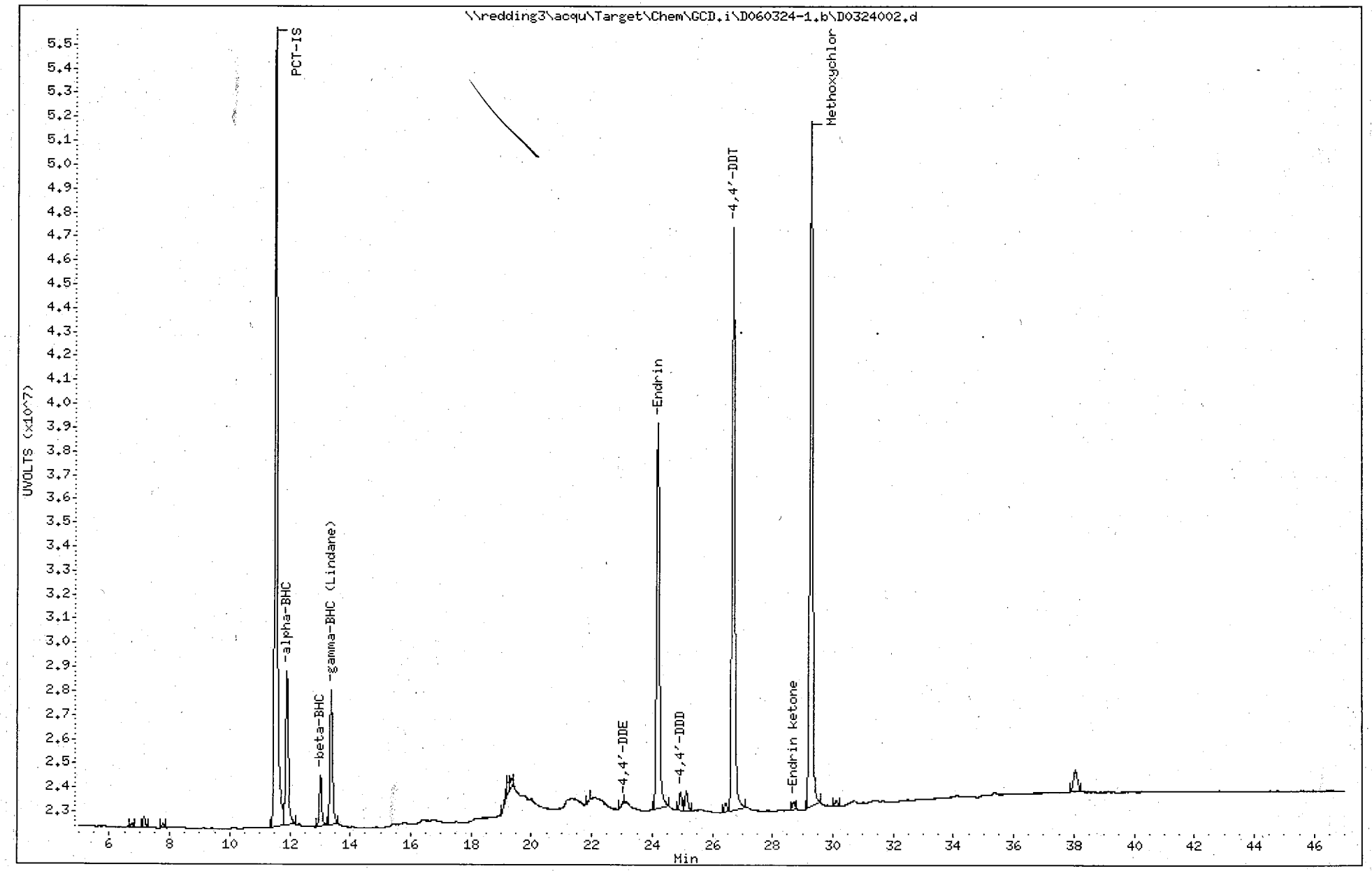
Endrin breakdown must be less than or equal to 15.0%

Data File: \\redding3\acqu\Target\Chem\GCD.i\D060324-1.b\D0324002.d
Date : 24-MAR-2006 09:45
Client ID: PEM 03/24
Sample Info: PEM 03/24

Instrument: GCD.i

Operator: SW846 8081A
Column diameter: 0.53

Column phase: DB5



7D
PESTICIDE BREAKDOWN

Lab Name: COLUMBIA ANALYTICAL SERVICES Case No.: DH005 SDG No.: DH005

GC Column: DB5 ID: 0.53 (mm) Init. Calib. Date(s): 03/13/06 03/14/06

Lab File ID: D0324002

Date Analyzed :03/24/06

Time Analyzed :0945

DDE AREA = 593849
DDD AREA = 4730568
DDT AREA = 157275757
Endrin Aldehyde AREA = 0
Endrin Ketone AREA = 1833946
Endrin AREA = 107741341

4,4'-DDT % breakdown (1): 3.27 Endrin % breakdown (1): 1.67

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

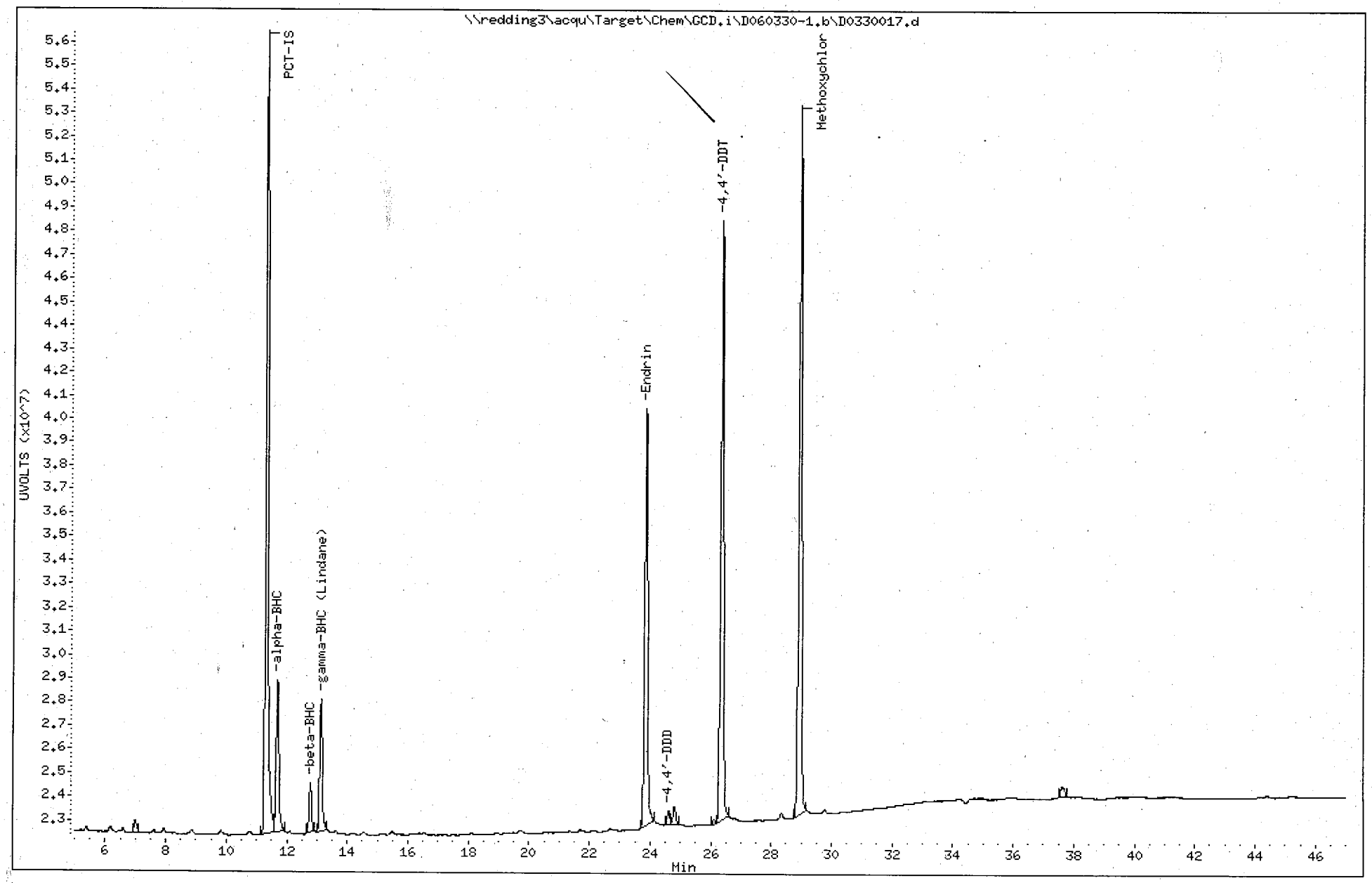
Endrin breakdown must be less than or equal to 15.0%

Data File: \\redding3\acqu\Target\Chem\GCD.i\D060330-1.b\D0330017.d
Date : 30-MAR-2006 23:30
Client ID: PEM 03/30
Sample Info: PEM 03/30

Column phase: DB5

Instrument: GCD.i

Operator: SW846 8081A
Column diameter: 0.53



7D
PESTICIDE BREAKDOWN

Lab Name: COLUMBIA ANALYTICAL SERVICES Case No.: DH005 SDG No.: DH005

GC Column: DB5 ID: 0.53 (mm) Init. Calib. Date(s): 03/28/06 03/29/06

Lab File ID: D0330017

Date Analyzed :03/30/06

Time Analyzed :2330

DDE AREA = 0
DDD AREA = 3673210
DDT AREA = 159896605
Endrin Aldehyde AREA = 0
Endrin Ketone AREA = 0
Endrin AREA = 114742076

4,4'-DDT % breakdown (1): 2.24 Endrin % breakdown (1): 0.00

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1 SW846

GC/MS VOLATILE ORGANICS

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: 03/08/2006
Date Received: 03/09/2006

Volatile Organic Compounds

Sample Name: DAESP03CL
Lab Code: DH009002

Units: ug/L (ppb)
Basis: NA

Extraction SW5030
Analysis Method: SW8260

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
Vinyl chloride	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Bromomethane	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
Chloroethane	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
1,1-Dichloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Acetone	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
Carbon disulfide	ND	U	5.0	1	03/13/2006	03/13/2006	U0313W01	
Methylene chloride	ND	U	4.5	1	03/13/2006	03/13/2006	U0313W01	
trans-1,2-Dichloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Tert-butylmethylether	ND	U	2.0	1	03/13/2006	03/13/2006	U0313W01	
1,1-Dichloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Vinyl acetate	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
cis-1,2-Dichloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,2-Dichloroethene (total)	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
2-Butanone	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
Chloroform	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,1,1-Trichloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Carbon tetrachloride	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Benzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,2-Dichloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Trichloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,2-Dichloropropane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Bromodichloromethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
cis-1,3-Dichloropropene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
4-methyl-2-pentanone	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
Toluene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
trans-1,3-Dichloropropene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,1,2-Trichloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Tetrachloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
2-Hexanone	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
Dibromochloromethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Chlorobenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Ethylbenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Xylene (total)	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
Styrene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Bromoform	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: 03/08/2006
Date Received: 03/09/2006

Volatile Organic Compounds

Sample Name: DAESP03CL
Lab Code: DH009002
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichlorobenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,4-Dichlorobenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,2-Dichlorobenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	106	76-114	03/13/2006	
1,4-Bromofluorobenzene - SS	101	86-115	03/13/2006	
Toluene-d8 - SS	95	88-110	03/13/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: 03/08/2006
Date Received: 03/09/2006

Volatile Organic Compounds

Sample Name: 231GW21CL
Lab Code: DH009004
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
Vinyl chloride	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Bromomethane	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
Chloroethane	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
1,1-Dichloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Acetone	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
Carbon disulfide	ND	U	5.0	1	03/13/2006	03/13/2006	U0313W01	
Methylene chloride	ND	U	4.5	1	03/13/2006	03/13/2006	U0313W01	
trans-1,2-Dichloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Tert-butylmethylether	ND	U	2.0	1	03/13/2006	03/13/2006	U0313W01	
1,1-Dichloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Vinyl acetate	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
cis-1,2-Dichloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,2-Dichloroethene (total)	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
2-Butanone	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
Chloroform	**2.7**		0.50	1	03/13/2006	03/13/2006	U0313W01	
1,1,1-Trichloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Carbon tetrachloride	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,2-Dichloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Trichloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,2-Dichloropropane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Bromodichloromethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
cis-1,3-Dichloropropene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
4-methyl-2-pentanone	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
Toluene	**3.7**		0.50	1	03/13/2006	03/13/2006	U0313W01	
trans-1,3-Dichloropropene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,1,2-Trichloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Tetrachloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
2-Hexanone	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
Dibromochloromethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Chlorobenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Ethylbenzene	**4.8**		0.50	1	03/13/2006	03/13/2006	U0313W01	
Xylene (total)	**3.0**		1.0	1	03/13/2006	03/13/2006	U0313W01	
Styrene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Bromoform	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,3-Dichlorobenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: 03/08/2006
Date Received: 03/09/2006

Volatile Organic Compounds

Sample Name: 231GW21CL
Lab Code: DH009004
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dichlorobenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,2-Dichlorobenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	99	76-114	03/13/2006	
1,4-Bromofluorobenzene - SS	100	86-115	03/13/2006	
Toluene-d8 - SS	95	88-110	03/13/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: 03/08/2006
Date Received: 03/09/2006

Volatile Organic Compounds

Sample Name: 231GW21CLDL
Lab Code: DH009004DL
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	**110**	D	5.0	10	03/16/2006	03/16/2006	U0316W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	103	76-114	03/16/2006	
1,4-Bromofluorobenzene - SS	101	86-115	03/16/2006	
Toluene-d8 - SS	98	88-110	03/16/2006	

Comments: _____

QC Summary

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: U0313W01

Units: ug/L (ppb)
Basis: NA

Extraction SW5030
Analysis Method: SW8260

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
Vinyl chloride	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Bromomethane	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
Chloroethane	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
1,1-Dichloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Acetone	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
Carbon disulfide	ND	U	5.0	1	03/13/2006	03/13/2006	U0313W01	
Methylene chloride	ND	U	4.5	1	03/13/2006	03/13/2006	U0313W01	
trans-1,2-Dichloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Tert-butylmethylether	ND	U	2.0	1	03/13/2006	03/13/2006	U0313W01	
1,1-Dichloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Vinyl acetate	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
cis-1,2-Dichloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,2-Dichloroethene (total)	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
2-Butanone	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
Chloroform	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,1,1-Trichloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Carbon tetrachloride	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Benzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,2-Dichloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Trichloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,2-Dichloropropane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Bromodichloromethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
cis-1,3-Dichloropropene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
4-methyl-2-pentanone	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
Toluene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
trans-1,3-Dichloropropene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,1,2-Trichloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Tetrachloroethene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
2-Hexanone	ND	U	10	1	03/13/2006	03/13/2006	U0313W01	
Dibromochloromethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Chlorobenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Ethylbenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Xylene (total)	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
Styrene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
Bromoform	ND	U	1.0	1	03/13/2006	03/13/2006	U0313W01	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: U0313W01

Units: ug/L (ppb)
Extraction SW5030
Basis: NA
Analysis Method: SW8260

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichlorobenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,4-Dichlorobenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	
1,2-Dichlorobenzene	ND	U	0.50	1	03/13/2006	03/13/2006	U0313W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	102	76-114	03/13/2006	
1,4-Bromofluorobenzene - SS	102	86-115	03/13/2006	
Toluene-d8 - SS	96	88-110	03/13/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: U0316W01

Units: ug/L (ppb)
Basis: NA

Extraction SW5030
Analysis Method: SW8260

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	1	03/16/2006	03/16/2006	U0316W01	
Vinyl chloride	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Bromomethane	ND	U	1.0	1	03/16/2006	03/16/2006	U0316W01	
Chloroethane	ND	U	1.0	1	03/16/2006	03/16/2006	U0316W01	
1,1-Dichloroethene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Acetone	ND	U	10	1	03/16/2006	03/16/2006	U0316W01	
Carbon disulfide	ND	U	5.0	1	03/16/2006	03/16/2006	U0316W01	
Methylene chloride	ND	U	4.5	1	03/16/2006	03/16/2006	U0316W01	
trans-1,2-Dichloroethene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Tert-butylmethylether	ND	U	2.0	1	03/16/2006	03/16/2006	U0316W01	
1,1-Dichloroethane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Vinyl acetate	ND	U	10	1	03/16/2006	03/16/2006	U0316W01	
cis-1,2-Dichloroethene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
1,2-Dichloroethene (total)	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
2-Butanone	ND	U	10	1	03/16/2006	03/16/2006	U0316W01	
Chloroform	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
1,1,1-Trichloroethane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Carbon tetrachloride	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Benzene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
1,2-Dichloroethane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Trichloroethene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
1,2-Dichloropropane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Bromodichloromethane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
cis-1,3-Dichloropropene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
4-methyl-2-pentanone	ND	U	10	1	03/16/2006	03/16/2006	U0316W01	
Toluene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
trans-1,3-Dichloropropene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
1,1,2-Trichloroethane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Tetrachloroethene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
2-Hexanone	ND	U	10	1	03/16/2006	03/16/2006	U0316W01	
Dibromochloromethane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Chlorobenzene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Ethylbenzene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Xylene (total)	ND	U	1.0	1	03/16/2006	03/16/2006	U0316W01	
Styrene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
Bromoform	ND	U	1.0	1	03/16/2006	03/16/2006	U0316W01	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: U0316W01
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichlorobenzene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
1,4-Dichlorobenzene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	
1,2-Dichlorobenzene	ND	U	0.50	1	03/16/2006	03/16/2006	U0316W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	103	76-114	03/16/2006	
1,4-Bromofluorobenzene - SS	101	86-115	03/16/2006	
Toluene-d8 - SS	99	88-110	03/16/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009

Surrogate Recovery Summary
Volatile Organic Compounds

Prep Method: SW5030
Analysis Method: SW8260

Units: Percent

Sample Name	Lab Code	Q	S1	S2	S3
Laboratory Control Sample	U0313W01LCS		94	102	98
Laboratory Control Sample Duplicate	U0313W01LCSD		98	104	98
Method Blank	U0313W01		102	102	96
DAESP03CL	DH009002		106	101	95
231GW21CL	DH009004		99	100	95
Laboratory Control Sample	U0316W01LCS		98	99	98
Laboratory Control Sample Duplicate	U0316W01LCSD		100	99	100
Method Blank	U0316W01		103	101	99
231GW21CLDL	DH009004DL		103	101	98

Surrogate Recovery Control Limits (%)

S1:	1,2-Dichloroethane-d4 - SS	76-114
S2:	1,4-Bromofluorobenzene - SS	86-115
S3:	Toluene-d8 - SS	88-110

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/13/2006
Time Analyzed: 1000

Internal Standard Area and RT Summary
Volatile Organic Compounds

File ID: U061934
Instrument ID: MSU
Analysis Method: SW8260

Analysis Lot: MSU03/13/2006

	Fluorobenzene		Chlorobenzene-d5		1,4-Dichlorobenzene-d4	
	Area	RT	Area	RT	Area	RT
Results ==>	795025	6.67	542080	10.43	250623	13.30
Upper Limit ==>	1590050	7.17	1084160	10.93	501246	13.80
Lower Limit ==>	397513	6.17	271040	9.93	125312	12.80

Associated Analyses

Laboratory Control Sample	U0313W01LCS	802211	6.67	544788	10.43	255203	13.30
Laboratory Control Sample Duplicate	U0313W01LCSD	774315	6.67	536393	10.43	245064	13.30
Method Blank	U0313W01	722021	6.67	497305	10.43	216837	13.30
DAESP03CL	DH009002	712166	6.67	505530	10.43	225152	13.30
231GW21CL	DH009004	726063	6.67	507463	10.43	236142	13.30

Column used to flag values outside of QC limits with an asterisk

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/16/2006
Time Analyzed: 0856

Internal Standard Area and RT Summary
Volatile Organic Compounds

File ID: U062072
Instrument ID: MSU
Analysis Method: SW8260

Analysis Lot: MSU03/16/2006

	Fluorobenzene		Chlorobenzene-d5		1,4-Dichlorobenzene-d4	
	Area	RT	Area	RT	Area	RT
Results ==>	840662	6.67	566817	10.43	260129	13.30
Upper Limit ==>	1681324	7.17	1133634	10.93	520258	13.80
Lower Limit ==>	420331	6.17	283409	9.93	130065	12.80

Associated Analyses

Laboratory Control Sample	U0316W01LCS	861918	6.67	592436	10.43	265755	13.30
Laboratory Control Sample Duplicate	U0316W01LCSD	856446	6.67	582855	10.43	265291	13.30
Method Blank	U0316W01	794812	6.67	532949	10.43	233336	13.30
231GW21CLDL	DH009004DL	806818	6.67	555025	10.43	247647	13.30

Column used to flag values outside of QC limits with an asterisk

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH009
Project:	PRESIDIO	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	03/13/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample	Lab Control Sample	**DMS Sample**	Lab Control Sample Duplicate
Lab Code:	U0313W01LCS	**Units:**	ug/L (ppb)
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
1,1-Dichloroethene	SW5030	SW8260	0.50	10.0	9.4	10.1	94	101	65-135	7	
Benzene	SW5030	SW8260	0.50	10.0	9.6	10.1	96	101	65-135	5	
Trichloroethene	SW5030	SW8260	0.50	10.0	9.3	10.0	93	100	65-135	7	
Toluene	SW5030	SW8260	0.50	10.0	9.5	10.0	95	100	65-135	5	
Chlorobenzene	SW5030	SW8260	0.50	10.0	9.4	9.7	94	97	65-135	3	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	TREADWELL & ROLLO	**Service Request:**	DH009
Project:	PRESIDIO	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	03/16/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample	Lab Control Sample	**DMS Sample**	Lab Control Sample Duplicate
Lab Code:	U0316W01LCS	**Units:**	ug/L (ppb)
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
1,1-Dichloroethene	SW5030	SW8260	0.50	10.0	9.9	10.2	99	102	65-135	3	
Benzene	SW5030	SW8260	0.50	10.0	9.8	10.1	98	101	65-135	3	
Trichloroethene	SW5030	SW8260	0.50	10.0	10.1	10.2	101	102	65-135	1	
Toluene	SW5030	SW8260	0.50	10.0	9.7	10.0	97	100	65-135	3	
Chlorobenzene	SW5030	SW8260	0.50	10.0	9.8	10.2	98	102	65-135	4	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Extracted: 03/13/2006
Date Analyzed: 03/13/2006
Time Analyzed: 12:33

Method Blank Summary
Volatile Organic Compounds

Extaction Method: SW5030
Analysis Method: SW8260

Extraction Lot: U0313W01
Level:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	U0313W01LCS	U061935	03/13/2006	10:25
Laboratory Control Sample Duplicate	U0313W01LCSD	U061936	03/13/2006	10:51
DAESP03CL	DH009002	U061948	03/13/2006	15:57
231GW21CL	DH009004	U061949	03/13/2006	16:23

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Extracted: 03/16/2006
Date Analyzed: 03/16/2006
Time Analyzed: 11:04

Method Blank Summary
Volatile Organic Compounds

Extaction Method: SW5030
Analysis Method: SW8260

Extraction Lot: U0316W01
Level:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	U0316W01LCS	U062073	03/16/2006	09:21
Laboratory Control Sample Duplicate	U0316W01LCSD	U062074	03/16/2006	09:47
231GW21CLDL	DH009004DL	U062080	03/16/2006	12:20

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/11/2006
Time Analyzed: 1332

Tune Summary
Volatile Organic Compounds

File ID: U061908
Instrument ID: MSU
Column: DB-624

Analysis Method: SW8260
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	16.7	142208	PASS
75	95	30	60	45.5	388416	PASS
95	95	100	100	100.0	853696	PASS
96	95	5	9	6.6	55928	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	79.9	681728	PASS
175	174	5	9	7.5	51000	PASS
176	174	95	101	96.8	660224	PASS
177	176	5	9	6.5	42864	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
VSTD00.5	VSTD00.5	U061908	03/11/2006	1607	
VSTD001	VSTD001	U061909	03/11/2006	1633	
VSTD005	VSTD005	U061910	03/11/2006	1658	
VSTD010	VSTD010	U061911	03/11/2006	1724	
VSTD020	VSTD020	U061912	03/11/2006	1750	
VSTD040	VSTD040	U061913	03/11/2006	1815	
QCALTSTD	QCALTSTD	U061915	03/11/2006	1906	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/13/2006
Time Analyzed: 0844

Tune Summary
Volatile Organic Compounds

File ID: U061934
Instrument ID: MSU
Column: DB-624

Analysis Method: SW8260
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	17.7	376320	PASS
75	95	30	60	46.3	982464	PASS
95	95	100	100	100.0	2121216	PASS
96	95	5	9	6.6	140800	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	72.3	1533440	PASS
175	174	5	9	7.4	113576	PASS
176	174	95	101	95.8	1469440	PASS
177	176	5	9	6.4	94216	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
VSTD010	VSTD010	U061934	03/13/2006	1000	
Laboratory Control Sample	U0313W01LCS	U061935	03/13/2006	1025	
Laboratory Control Sample Duplicate	U0313W01LCSD	U061936	03/13/2006	1051	
Method Blank	U0313W01	U061940	03/13/2006	1233	
DAESP03CL	DH009002	U061948	03/13/2006	1557	
231GW21CL	DH009004	U061949	03/13/2006	1623	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/15/2006
Time Analyzed: 1606

Tune Summary
Volatile Organic Compounds

File ID: U062045
Instrument ID: MSU
Column: DB-624

Analysis Method: SW8260
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	17.8	159424	PASS
75	95	30	60	45.3	405376	PASS
95	95	100	100	100.0	894144	PASS
96	95	5	9	6.7	60240	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	72.6	648704	PASS
175	174	5	9	7.4	48296	PASS
176	174	95	101	96.2	623744	PASS
177	176	5	9	6.6	41232	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
VSTD00.5	VSTD00.5	U062045	03/15/2006	1721	
VSTD001	VSTD001	U062046	03/15/2006	1746	
VSTD005	VSTD005	U062047	03/15/2006	1812	
VSTD010	VSTD010	U062048	03/15/2006	1837	
VSTD020	VSTD020	U062049	03/15/2006	1903	
VSTD040	VSTD040	U062050	03/15/2006	1928	
QCALTSTD	QCALTSTD	U062052	03/15/2006	2019	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/16/2006
Time Analyzed: 0831

Tune Summary
Volatile Organic Compounds

File ID: U062072
Instrument ID: MSU
Column: DB-624

Analysis Method: SW8260
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	18.1	144064	PASS
75	95	30	60	46.0	366976	PASS
95	95	100	100	100.0	797696	PASS
96	95	5	9	6.7	53752	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	73.2	584000	PASS
175	174	5	9	7.6	44424	PASS
176	174	95	101	95.1	555392	PASS
177	176	5	9	6.6	36800	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
VSTD010	VSTD010	U062072	03/16/2006	0856	
Laboratory Control Sample	U0316W01LCS	U062073	03/16/2006	0921	
Laboratory Control Sample Duplicate	U0316W01LCSD	U062074	03/16/2006	0947	
Method Blank	U0316W01	U062077	03/16/2006	1104	
231GW21CLDL	DH009004DL	U062080	03/16/2006	1220	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Standards Data

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/11/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 03/11/2006MSU
Instrument ID: MSU

Column: DB-624

Level ID	File ID	Level ID	File ID
A	U061908	F	U061909
B	U061910		
C	U061911		
D	U061912		
E	U061913		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
* Chloromethane	A	0.500	0.258	B	5.000	0.221	C	10.00	0.230	D	20.00	0.215	E	40.00	0.222
# Vinyl chloride	A	0.500	0.245	B	5.000	0.233	C	10.00	0.242	D	20.00	0.229	E	40.00	0.236
Bromomethane	A	0.500	0.090	B	5.000	0.092	C	10.00	0.096	D	20.00	0.093	E	40.00	0.076
Chloroethane	A	0.500	0.124	B	5.000	0.140	C	10.00	0.137	D	20.00	0.132	E	40.00	0.131
# 1,1-Dichloroethene	A	0.500	0.188	B	5.000	0.178	C	10.00	0.176	D	20.00	0.169	E	40.00	0.176
Acetone	A			B	25.00	0.065	C	50.00	0.073	D	100.0	0.065	E	200.0	0.052
	F	5.000	0.082												
Carbon disulfide	A	0.500	0.439	B	5.000	0.438	C	10.00	0.446	D	20.00	0.435	E	40.00	0.449
Methylene chloride	A	0.500	0.221	B	5.000	0.184	C	10.00	0.189	D	20.00	0.180	E	40.00	0.187
trans-1,2-Dichloroethene	A	0.500	0.284	B	5.000	0.273	C	10.00	0.281	D	20.00	0.269	E	40.00	0.267
Tert-butylmethylether	A	0.500	0.758	B	5.000	0.695	C	10.00	0.765	D	20.00	0.732	E	40.00	0.723
* 1,1-Dichloroethane	A	0.500	0.531	B	5.000	0.470	C	10.00	0.498	D	20.00	0.481	E	40.00	0.484
Vinyl acetate	A	0.500	0.979	B	5.000	0.940	C	10.00	1.001	D	20.00	0.956	E	40.00	1.006
cis-1,2-Dichloroethene	A	0.500	0.289	B	5.000	0.295	C	10.00	0.304	D	20.00	0.294	E	40.00	0.295
1,2-Dichloroethene (total)	A	1.000	0.287	B	10.00	0.284	C	20.00	0.293	D	40.00	0.282	E	80.00	0.281
2-Butanone	A			B	25.00	0.102	C	50.00	0.118	D	100.0	0.111	E	200.0	0.100
	F	5.000	0.113												
# Chloroform	A	0.500	0.472	B	5.000	0.484	C	10.00	0.504	D	20.00	0.483	E	40.00	0.482
1,1,1-Trichloroethane	A	0.500	0.404	B	5.000	0.386	C	10.00	0.425	D	20.00	0.416	E	40.00	0.429

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/11/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 03/11/2006MSU
Instrument ID: MSU

Column: DB-624

Level ID	File ID	Level ID	File ID
A	U061908	F	U061909
B	U061910		
C	U061911		
D	U061912		
E	U061913		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Carbon tetrachloride	A	0.500	0.297	B	5.000	0.296	C	10.00	0.317	D	20.00	0.318	E	40.00	0.332
Benzene	A	0.500	1.080	B	5.000	1.050	C	10.00	1.092	D	20.00	1.057	E	40.00	1.061
1,2-Dichloroethane	A	0.500	0.422	B	5.000	0.387	C	10.00	0.404	D	20.00	0.385	E	40.00	0.386
Trichloroethene	A	0.500	0.288	B	5.000	0.274	C	10.00	0.291	D	20.00	0.278	E	40.00	0.281
# 1,2-Dichloropropane	A	0.500	0.278	B	5.000	0.270	C	10.00	0.274	D	20.00	0.273	E	40.00	0.273
Bromodichloromethane	A	0.500	0.340	B	5.000	0.317	C	10.00	0.344	D	20.00	0.347	E	40.00	0.354
cis-1,3-Dichloropropene	A	0.500	0.344	B	5.000	0.363	C	10.00	0.396	D	20.00	0.395	E	40.00	0.414
4-methyl-2-pentanone	A			B	25.00	0.208	C	50.00	0.248	D	100.0	0.231	E	200.0	0.223
	F	5.000	0.208												
# Toluene	A	0.500	1.014	B	5.000	1.072	C	10.00	1.074	D	20.00	1.044	E	40.00	1.052
trans-1,3-Dichloropropene	A	0.500	0.420	B	5.000	0.458	C	10.00	0.512	D	20.00	0.519	E	40.00	0.544
1,1,2-Trichloroethane	A	0.500	0.277	B	5.000	0.270	C	10.00	0.283	D	20.00	0.268	E	40.00	0.265
Tetrachloroethene	A	0.500	0.435	B	5.000	0.412	C	10.00	0.446	D	20.00	0.426	E	40.00	0.428
2-Hexanone	A			B	25.00	0.203	C	50.00	0.246	D	100.0	0.233	E	200.0	0.222
	F	5.000	0.190												
Dibromochloromethane	A	0.500	0.343	B	5.000	0.339	C	10.00	0.372	D	20.00	0.376	E	40.00	0.385
* Chlorobenzene	A	0.500	1.208	B	5.000	1.094	C	10.00	1.125	D	20.00	1.080	E	40.00	1.085
# Ethylbenzene	A	0.500	1.841	B	5.000	1.849	C	10.00	1.913	D	20.00	1.850	E	40.00	1.898
Xylene (total)	A	1.500	0.663	B	15.00	0.667	C	30.00	0.709	D	60.00	0.683	E	120.0	0.688

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/11/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 03/11/2006MSU
Instrument ID: MSU

Column: DB-624

Level ID	File ID	Level ID	File ID
A	U061908	F	U061909
B	U061910		
C	U061911		
D	U061912		
E	U061913		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Styrene	A	0.500	1.062	B	5.000	1.096	C	10.00	1.159	D	20.00	1.133	E	40.00	1.156
* Bromoform	A	0.500	0.193	B	5.000	0.176	C	10.00	0.210	D	20.00	0.212	E	40.00	0.222
* 1,1,2,2-Tetrachloroethane	A	0.500	1.023	B	5.000	0.855	C	10.00	0.912	D	20.00	0.863	E	40.00	0.839
1,3-Dichlorobenzene	A	0.500	1.914	B	5.000	1.736	C	10.00	1.851	D	20.00	1.767	E	40.00	1.761
1,4-Dichlorobenzene	A	0.500	2.178	B	5.000	1.805	C	10.00	1.874	D	20.00	1.811	E	40.00	1.804
1,2-Dichlorobenzene	A	0.500	1.964	B	5.000	1.658	C	10.00	1.747	D	20.00	1.667	E	40.00	1.646
1,2-dichloroethane-d4	A			B	5.000	0.295	C	10.00	0.274	D	20.00	0.282	E	40.00	0.258
	F	1.000	0.292												
Toluene-d8	A			B	5.000	1.363	C	10.00	1.288	D	20.00	1.347	E	40.00	1.262
	F	1.000	1.283												
Bromofluorobenzene	A			B	5.000	0.789	C	10.00	0.787	D	20.00	0.805	E	40.00	0.744
	F	1.000	0.715												

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/15/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 03/15/2006MSU
Instrument ID: MSU

Column: DB-624

Level ID	File ID	Level ID	File ID
A	U062045	F	U062046
B	U062047		
C	U062048		
D	U062049		
E	U062050		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
* Chloromethane	A	0.500	0.292	B	5.000	0.267	C	10.00	0.250	D	20.00	0.253	E	40.00	0.247
# Vinyl chloride	A	0.500	0.212	B	5.000	0.261	C	10.00	0.247	D	20.00	0.250	E	40.00	0.254
Bromomethane	A	0.500	0.077	B	5.000	0.087	C	10.00	0.088	D	20.00	0.096	E	40.00	0.091
Chloroethane	A	0.500	0.251	B	5.000	0.196	C	10.00	0.167	D	20.00	0.162	E	40.00	0.148
# 1,1-Dichloroethene	A	0.500	0.148	B	5.000	0.158	C	10.00	0.154	D	20.00	0.158	E	40.00	0.158
Acetone	A			B	25.00	0.065	C	50.00	0.055	D	100.0	0.058	E	200.0	0.054
	F	5.000	0.088												
Carbon disulfide	A	0.500	0.462	B	5.000	0.461	C	10.00	0.445	D	20.00	0.460	E	40.00	0.467
Methylene chloride	A	0.500	0.190	B	5.000	0.181	C	10.00	0.171	D	20.00	0.175	E	40.00	0.180
trans-1,2-Dichloroethene	A	0.500	0.246	B	5.000	0.265	C	10.00	0.247	D	20.00	0.256	E	40.00	0.250
Tert-butylmethylether	A	0.500	0.675	B	5.000	0.725	C	10.00	0.701	D	20.00	0.733	E	40.00	0.710
* 1,1-Dichloroethane	A	0.500	0.424	B	5.000	0.469	C	10.00	0.449	D	20.00	0.473	E	40.00	0.468
Vinyl acetate	A	0.500	1.022	B	5.000	0.982	C	10.00	1.044	D	20.00	1.054	E	40.00	1.044
cis-1,2-Dichloroethene	A	0.500	0.245	B	5.000	0.289	C	10.00	0.278	D	20.00	0.288	E	40.00	0.286
1,2-Dichloroethene (total)	A	1.000	0.245	B	10.00	0.277	C	20.00	0.262	D	40.00	0.272	E	80.00	0.268
2-Butanone	A			B	25.00	0.113	C	50.00	0.107	D	100.0	0.113	E	200.0	0.107
	F	5.000	0.118												
# Chloroform	A	0.500	0.395	B	5.000	0.447	C	10.00	0.432	D	20.00	0.455	E	40.00	0.451
1,1,1-Trichloroethane	A	0.500	0.336	B	5.000	0.375	C	10.00	0.372	D	20.00	0.390	E	40.00	0.392

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/15/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 03/15/2006MSU
Instrument ID: MSU

Column: DB-624

Level ID	File ID	Level ID	File ID
A	U062045	F	U062046
B	U062047		
C	U062048		
D	U062049		
E	U062050		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Carbon tetrachloride	A	0.500	0.245	B	5.000	0.275	C	10.00	0.279	D	20.00	0.298	E	40.00	0.303
Benzene	A	0.500	0.940	B	5.000	1.065	C	10.00	1.013	D	20.00	1.054	E	40.00	1.046
1,2-Dichloroethane	A	0.500	0.316	B	5.000	0.360	C	10.00	0.344	D	20.00	0.365	E	40.00	0.356
Trichloroethene	A	0.500	0.225	B	5.000	0.275	C	10.00	0.258	D	20.00	0.275	E	40.00	0.271
# 1,2-Dichloropropane	A	0.500	0.237	B	5.000	0.276	C	10.00	0.258	D	20.00	0.271	E	40.00	0.268
Bromodichloromethane	A	0.500	0.248	B	5.000	0.295	C	10.00	0.295	D	20.00	0.316	E	40.00	0.317
cis-1,3-Dichloropropene	A	0.500	0.321	B	5.000	0.364	C	10.00	0.360	D	20.00	0.390	E	40.00	0.395
4-methyl-2-pentanone	A			B	25.00	0.238	C	50.00	0.226	D	100.0	0.240	E	200.0	0.227
	F	5.000	0.211												
# Toluene	A	0.500	1.000	B	5.000	0.996	C	10.00	0.995	D	20.00	1.037	E	40.00	1.019
trans-1,3-Dichloropropene	A	0.500	0.370	B	5.000	0.450	C	10.00	0.468	D	20.00	0.505	E	40.00	0.512
1,1,2-Trichloroethane	A	0.500	0.252	B	5.000	0.252	C	10.00	0.253	D	20.00	0.264	E	40.00	0.253
Tetrachloroethene	A	0.500	0.342	B	5.000	0.410	C	10.00	0.399	D	20.00	0.416	E	40.00	0.403
2-Hexanone	A			B	25.00	0.228	C	50.00	0.225	D	100.0	0.241	E	200.0	0.222
	F	5.000	0.208												
Dibromochloromethane	A	0.500	0.250	B	5.000	0.289	C	10.00	0.304	D	20.00	0.336	E	40.00	0.341
* Chlorobenzene	A	0.500	0.978	B	5.000	1.050	C	10.00	1.022	D	20.00	1.058	E	40.00	1.029
# Ethylbenzene	A	0.500	1.656	B	5.000	1.787	C	10.00	1.768	D	20.00	1.846	E	40.00	1.817
Xylene (total)	A	1.500	0.606	B	15.00	0.663	C	30.00	0.656	D	60.00	0.684	E	120.0	0.662

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/15/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 03/15/2006MSU
Instrument ID: MSU

Column: DB-624

Level ID	File ID	Level ID	File ID
A	U062045	F	U062046
B	U062047		
C	U062048		
D	U062049		
E	U062050		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Styrene	A	0.500	0.933	B	5.000	1.084	C	10.00	1.056	D	20.00	1.113	E	40.00	1.095
* Bromoform	A	0.500	0.153	B	5.000	0.189	C	10.00	0.185	D	20.00	0.205	E	40.00	0.203
* 1,1,2,2-Tetrachloroethane	A	0.500	0.783	B	5.000	0.795	C	10.00	0.804	D	20.00	0.829	E	40.00	0.795
1,3-Dichlorobenzene	A	0.500	1.602	B	5.000	1.688	C	10.00	1.641	D	20.00	1.699	E	40.00	1.668
1,4-Dichlorobenzene	A	0.500	1.527	B	5.000	1.723	C	10.00	1.673	D	20.00	1.733	E	40.00	1.722
1,2-Dichlorobenzene	A	0.500	1.490	B	5.000	1.599	C	10.00	1.534	D	20.00	1.589	E	40.00	1.567
1,2-dichloroethane-d4	A			B	5.000	0.245	C	10.00	0.248	D	20.00	0.265	E	40.00	0.264
	F	1.000	0.286												
Toluene-d8	A			B	5.000	1.191	C	10.00	1.238	D	20.00	1.335	E	40.00	1.326
	F	1.000	1.351												
Bromofluorobenzene	A			B	5.000	0.754	C	10.00	0.765	D	20.00	0.827	E	40.00	0.826
	F	1.000	0.837												

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/11/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 03/11/2006MSU
Instrument ID: MSU
Mean RSD: 5.06

Column: DB-624

			Calibration Evaluation				RRF Evaluation		
Analyte Name	Compound Type	Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Miniumum RRF
* Chloromethane	TRG	AverageRF	% RSD	7.5		15.0	0.229		0.10
# Vinyl chloride	TRG	AverageRF	% RSD	2.6		15.0	0.237		0.01
Bromomethane	TRG	AverageRF	% RSD	8.7		15.0	0.089		0.01
Chloroethane	TRG	AverageRF	% RSD	4.8		15.0	0.133		0.01
# 1,1-Dichloroethene	TRG	AverageRF	% RSD	3.7		15.0	0.177		0.01
Acetone	TRG	AverageRF	% RSD	16.0		15.0	0.067		0.01
Carbon disulfide	TRG	AverageRF	% RSD	1.3		15.0	0.441		0.01
Methylene chloride	TRG	AverageRF	% RSD	8.5		15.0	0.192		0.01
trans-1,2-Dichloroethene	TRG	AverageRF	% RSD	2.8		15.0	0.275		0.01
Tert-butylmethylether	TRG	AverageRF	% RSD	3.9		15.0	0.735		0.01
* 1,1-Dichloroethane	TRG	AverageRF	% RSD	4.8		15.0	0.493		0.10
Vinyl acetate	TRG	AverageRF	% RSD	2.9		15.0	0.976		0.01
cis-1,2-Dichloroethene	TRG	AverageRF	% RSD	1.8		15.0	0.295		0.01
1,2-Dichloroethene (total)	TRG	AverageRF	% RSD	1.7		15.0	0.285		0.01
2-Butanone	TRG	AverageRF	% RSD	7.0		15.0	0.109		0.01
# Chloroform	TRG	AverageRF	% RSD	2.4		15.0	0.485		0.01
1,1,1-Trichloroethane	TRG	AverageRF	% RSD	4.2		15.0	0.412		0.01
Carbon tetrachloride	TRG	AverageRF	% RSD	4.9		15.0	0.312		0.01
Benzene	TRG	AverageRF	% RSD	1.6		15.0	1.068		0.01
1,2-Dichloroethane	TRG	AverageRF	% RSD	4.0		15.0	0.397		0.01
Trichloroethene	TRG	AverageRF	% RSD	2.5		15.0	0.282		0.01
# 1,2-Dichloropropane	TRG	AverageRF	% RSD	1.0		15.0	0.274		0.01
Bromodichloromethane	TRG	AverageRF	% RSD	4.1		15.0	0.340		0.01
cis-1,3-Dichloropropene	TRG	AverageRF	% RSD	7.4		15.0	0.382		0.01
4-methyl-2-pentanone	TRG	AverageRF	% RSD	7.6		15.0	0.224		0.01
# Toluene	TRG	AverageRF	% RSD	2.3		15.0	1.051		0.01
trans-1,3-Dichloropropene	TRG	AverageRF	% RSD	10.3		15.0	0.491		0.01
1,1,2-Trichloroethane	TRG	AverageRF	% RSD	2.6		15.0	0.273		0.01
Tetrachloroethene	TRG	AverageRF	% RSD	2.9		15.0	0.429		0.01
2-Hexanone	TRG	AverageRF	% RSD	10.3		15.0	0.219		0.01
Dibromochloromethane	TRG	AverageRF	% RSD	5.7		15.0	0.363		0.01
* Chlorobenzene	TRG	AverageRF	% RSD	4.7		15.0	1.118		0.30
# Ethylbenzene	TRG	AverageRF	% RSD	1.8		15.0	1.870		0.01
Xylene (total)	TRG	AverageRF	% RSD	2.7		15.0	0.682		0.01
Styrene	TRG	AverageRF	% RSD	3.7		15.0	1.121		0.01
* Bromoform	TRG	AverageRF	% RSD	8.9		15.0	0.203		0.10
* 1,1,2,2-Tetrachloroethane	TRG	AverageRF	% RSD	8.3		15.0	0.898		0.30

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/11/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 03/11/2006MSU
Instrument ID: MSU
Mean RSD: 5.06

Column: DB-624

			Calibration Evaluation				RRF Evaluation		
Analyte Name	**Compound Type**	**Fit Type**	**Eval.**	**Eval. Result**	**Q**	**Control Criteria**	**Average RRF**	**Q**	**Miniumum RRF**
1,3-Dichlorobenzene	TRG	AverageRF	% RSD	4.1		15.0	1.806		0.01
1,4-Dichlorobenzene	TRG	AverageRF	% RSD	8.5		15.0	1.894		0.01
1,2-Dichlorobenzene	TRG	AverageRF	% RSD	7.7		15.0	1.736		0.01
1,2-dichloroethane-d4	SUR	AverageRF	% RSD	5.3		15.0	0.280		0.01
Toluene-d8	SUR	AverageRF	% RSD	3.4		15.0	1.309		0.01
Bromofluorobenzene	SUR	AverageRF	% RSD	4.9		15.0	0.768		0.01

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/15/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 03/15/2006MSU
Instrument ID: MSU
Mean RSD: 6.38

Column: DB-624

	Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria	RRF Evaluation Average RRF	Q	Miniumum RRF
*	Chloromethane	TRG	AverageRF	% RSD	7.1		15.0	0.262		0.10
#	Vinyl chloride	TRG	AverageRF	% RSD	7.7		15.0	0.245		0.01
	Bromomethane	TRG	AverageRF	% RSD	7.9		15.0	0.088		0.01
	Chloroethane	TRG	AverageRF	% RSD	22.0		15.0	0.185		0.01
#	1,1-Dichloroethene	TRG	AverageRF	% RSD	2.6		15.0	0.155		0.01
	Acetone	TRG	AverageRF	% RSD	22.3		15.0	0.064		0.01
	Carbon disulfide	TRG	AverageRF	% RSD	1.8		15.0	0.459		0.01
	Methylene chloride	TRG	AverageRF	% RSD	4.0		15.0	0.179		0.01
	trans-1,2-Dichloroethene	TRG	AverageRF	% RSD	3.2		15.0	0.253		0.01
	Tert-butylmethylether	TRG	AverageRF	% RSD	3.2		15.0	0.709		0.01
*	1,1-Dichloroethane	TRG	AverageRF	% RSD	4.5		15.0	0.457		0.10
	Vinyl acetate	TRG	AverageRF	% RSD	2.8		15.0	1.029		0.01
	cis-1,2-Dichloroethene	TRG	AverageRF	% RSD	6.7		15.0	0.277		0.01
	1,2-Dichloroethene (total)	TRG	AverageRF	% RSD	4.6		15.0	0.265		0.01
	2-Butanone	TRG	AverageRF	% RSD	4.1		15.0	0.112		0.01
#	Chloroform	TRG	AverageRF	% RSD	5.7		15.0	0.436		0.01
	1,1,1-Trichloroethane	TRG	AverageRF	% RSD	6.0		15.0	0.373		0.01
	Carbon tetrachloride	TRG	AverageRF	% RSD	8.1		15.0	0.280		0.01
	Benzene	TRG	AverageRF	% RSD	5.0		15.0	1.024		0.01
	1,2-Dichloroethane	TRG	AverageRF	% RSD	5.7		15.0	0.348		0.01
	Trichloroethene	TRG	AverageRF	% RSD	8.1		15.0	0.261		0.01
#	1,2-Dichloropropane	TRG	AverageRF	% RSD	6.0		15.0	0.262		0.01
	Bromodichloromethane	TRG	AverageRF	% RSD	9.6		15.0	0.294		0.01
	cis-1,3-Dichloropropene	TRG	AverageRF	% RSD	8.0		15.0	0.366		0.01
	4-methyl-2-pentanone	TRG	AverageRF	% RSD	5.1		15.0	0.228		0.01
#	Toluene	TRG	AverageRF	% RSD	1.8		15.0	1.009		0.01
	trans-1,3-Dichloropropene	TRG	AverageRF	% RSD	12.4		15.0	0.461		0.01
	1,1,2-Trichloroethane	TRG	AverageRF	% RSD	2.0		15.0	0.255		0.01
	Tetrachloroethene	TRG	AverageRF	% RSD	7.6		15.0	0.394		0.01
	2-Hexanone	TRG	AverageRF	% RSD	5.2		15.0	0.225		0.01
	Dibromochloromethane	TRG	AverageRF	% RSD	12.3		15.0	0.304		0.01
*	Chlorobenzene	TRG	AverageRF	% RSD	3.0		15.0	1.027		0.30
#	Ethylbenzene	TRG	AverageRF	% RSD	4.1		15.0	1.775		0.01
	Xylene (total)	TRG	AverageRF	% RSD	4.4		15.0	0.654		0.01
	Styrene	TRG	AverageRF	% RSD	6.8		15.0	1.056		0.01
*	Bromoform	TRG	AverageRF	% RSD	11.2		15.0	0.187		0.10
*	1,1,2,2-Tetrachloroethane	TRG	AverageRF	% RSD	2.2		15.0	0.801		0.30

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
ICAL Date: 03/15/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 03/15/2006MSU
Instrument ID: MSU
Mean RSD: 6.38

Column: DB-624

		Calibration Evaluation					RRF Evaluation		
Analyte Name	**Compound Type**	**Fit Type**	**Eval.**	**Eval. Result**	**Q**	**Control Criteria**	**Average RRF**	**Q**	**Miniumum RRF**
1,3-Dichlorobenzene	TRG	AverageRF	% RSD	2.3		15.0	1.660		0.01
1,4-Dichlorobenzene	TRG	AverageRF	% RSD	5.2		15.0	1.676		0.01
1,2-Dichlorobenzene	TRG	AverageRF	% RSD	2.9		15.0	1.556		0.01
1,2-dichloroethane-d4	SUR	AverageRF	% RSD	6.3		15.0	0.262		0.01
Toluene-d8	SUR	AverageRF	% RSD	5.4		15.0	1.288		0.01
Bromofluorobenzene	SUR	AverageRF	% RSD	4.9		15.0	0.802		0.01

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/11/2006

Second Source Calibration Verification
Volatile Organic Compounds

ICAL ID: 03/11/2006MSU
Instrument ID: MSU
File ID: U061915

Column: DB-624

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Chloromethane	10.0	9.095	0.229	0.209	-9.0	NA	+/- 40.0	AverageRF	
Vinyl chloride	10.0	9.563	0.237	0.227	-4.4	NA	+/- 20.0	AverageRF	
Bromomethane	10.0	11.17	0.089	0.100	11.8	NA	+/- 40.0	AverageRF	
Chloroethane	10.0	10.13	0.133	0.135	1.3	NA	+/- 40.0	AverageRF	
1,1-Dichloroethene	10.0	9.312	0.177	0.165	-6.9	NA	+/- 20.0	AverageRF	
Acetone	50.0	44.52	0.067	0.060	-10.9	NA	+/- 40.0	AverageRF	
Carbon disulfide	10.0	9.607	0.441	0.424	-3.9	NA	+/- 40.0	AverageRF	
Methylene chloride	10.0	9.207	0.192	0.177	-7.9	NA	+/- 40.0	AverageRF	
trans-1,2-Dichloroethene	10.0	9.818	0.275	0.270	-1.8	NA	+/- 40.0	AverageRF	
Tert-butylmethylether	10.0	9.909	0.735	0.728	-0.9	NA	+/- 40.0	AverageRF	
1,1-Dichloroethane	10.0	9.485	0.493	0.467	-5.1	NA	+/- 40.0	AverageRF	
Vinyl acetate	10.0	9.843	0.977	0.961	-1.6	NA	+/- 40.0	AverageRF	
cis-1,2-Dichloroethene	10.0	10.04	0.296	0.297	0.4	NA	+/- 40.0	AverageRF	
1,2-Dichloroethene (total)	20.0	19.86	0.285	0.283	-0.7	NA	+/- 40.0	AverageRF	
2-Butanone	50.0	48.08	0.109	0.104	-3.8	NA	+/- 40.0	AverageRF	
Chloroform	10.0	9.603	0.485	0.466	-4.0	NA	+/- 20.0	AverageRF	
1,1,1-Trichloroethane	10.0	9.878	0.412	0.407	-1.2	NA	+/- 40.0	AverageRF	
Carbon tetrachloride	10.0	9.546	0.312	0.298	-4.5	NA	+/- 40.0	AverageRF	
Benzene	10.0	9.613	1.068	1.027	-3.9	NA	+/- 40.0	AverageRF	
1,2-Dichloroethane	10.0	9.526	0.397	0.378	-4.7	NA	+/- 40.0	AverageRF	
Trichloroethene	10.0	9.715	0.283	0.275	-2.8	NA	+/- 40.0	AverageRF	
1,2-Dichloropropane	10.0	9.894	0.274	0.271	-1.0	NA	+/- 20.0	AverageRF	
Bromodichloromethane	10.0	9.634	0.340	0.328	-3.7	NA	+/- 40.0	AverageRF	
cis-1,3-Dichloropropene	10.0	9.920	0.382	0.379	-0.8	NA	+/- 40.0	AverageRF	
4-methyl-2-pentanone	50.0	50.44	0.224	0.226	0.9	NA	+/- 40.0	AverageRF	
Toluene	10.0	9.809	1.051	1.031	-1.9	NA	+/- 20.0	AverageRF	
trans-1,3-Dichloropropene	10.0	9.883	0.491	0.485	-1.2	NA	+/- 40.0	AverageRF	
1,1,2-Trichloroethane	10.0	9.945	0.273	0.271	-0.5	NA	+/- 40.0	AverageRF	
Tetrachloroethene	10.0	9.680	0.429	0.416	-3.2	NA	+/- 40.0	AverageRF	
2-Hexanone	50.0	50.89	0.219	0.223	1.8	NA	+/- 40.0	AverageRF	
Dibromochloromethane	10.0	9.841	0.363	0.357	-1.6	NA	+/- 40.0	AverageRF	
Chlorobenzene	10.0	9.742	1.119	1.090	-2.6	NA	+/- 40.0	AverageRF	
Ethylbenzene	10.0	9.774	1.870	1.828	-2.3	NA	+/- 20.0	AverageRF	
Xylene (total)	30.0	29.72	0.682	0.676	-0.9	NA	+/- 40.0	AverageRF	
Styrene	10.0	9.914	1.121	1.112	-0.8	NA	+/- 40.0	AverageRF	
Bromoform	10.0	9.816	0.203	0.199	-1.8	NA	+/- 40.0	AverageRF	
1,1,2,2-Tetrachloroethane	10.0	9.544	0.899	0.858	-4.6	NA	+/- 40.0	AverageRF	
1,3-Dichlorobenzene	10.0	9.582	1.806	1.730	-4.2	NA	+/- 40.0	AverageRF	
1,4-Dichlorobenzene	10.0	9.505	1.894	1.801	-5.0	NA	+/- 40.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/11/2006

Second Source Calibration Verification
Volatile Organic Compounds

ICAL ID: 03/11/2006MSU
Instrument ID: MSU
File ID: U061915

Column: DB-624

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
1,2-Dichlorobenzene	10.0	9.616	1.736	1.670	-3.8	NA	+/- 40.0	AverageRF	
1,2-dichloroethane-d4	N/A	N/A	0.280	0.278	0.0	NA	+/- 40.0	AverageRF	
Toluene-d8	N/A	N/A	1.309	1.354	0.0	NA	+/- 40.0	AverageRF	
Bromofluorobenzene	N/A	N/A	0.768	0.792	0.0	NA	+/- 40.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/15/2006

Second Source Calibration Verification
Volatile Organic Compounds

ICAL ID: 03/15/2006MSU
Instrument ID: MSU
File ID: U062052

Column: DB-624

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Chloromethane	10.0	9.216	0.262	0.241	-7.8	NA	+/- 40.0	AverageRF	
Vinyl chloride	10.0	9.821	0.245	0.241	-1.8	NA	+/- 20.0	AverageRF	
Bromomethane	10.0	10.73	0.088	0.094	7.3	NA	+/- 40.0	AverageRF	
Chloroethane	10.0	8.808	0.185	0.163	-11.9	NA	+/- 40.0	AverageRF	
1,1-Dichloroethene	10.0	9.706	0.155	0.151	-2.9	NA	+/- 20.0	AverageRF	
Acetone	50.0	45.14	0.064	0.058	-9.7	NA	+/- 40.0	AverageRF	
Carbon disulfide	10.0	9.333	0.459	0.428	-6.7	NA	+/- 40.0	AverageRF	
Methylene chloride	10.0	9.523	0.179	0.171	-4.8	NA	+/- 40.0	AverageRF	
trans-1,2-Dichloroethene	10.0	9.721	0.253	0.246	-2.8	NA	+/- 40.0	AverageRF	
Tert-butylmethylether	10.0	9.895	0.709	0.702	-1.0	NA	+/- 40.0	AverageRF	
1,1-Dichloroethane	10.0	9.812	0.456	0.448	-1.9	NA	+/- 40.0	AverageRF	
Vinyl acetate	10.0	9.536	1.029	0.982	-4.6	NA	+/- 40.0	AverageRF	
cis-1,2-Dichloroethene	10.0	9.886	0.277	0.274	-1.1	NA	+/- 40.0	AverageRF	
1,2-Dichloroethene (total)	20.0	19.61	0.265	0.260	-1.9	NA	+/- 40.0	AverageRF	
2-Butanone	50.0	48.92	0.111	0.109	-2.2	NA	+/- 40.0	AverageRF	
Chloroform	10.0	9.856	0.436	0.430	-1.4	NA	+/- 20.0	AverageRF	
1,1,1-Trichloroethane	10.0	9.733	0.373	0.363	-2.7	NA	+/- 40.0	AverageRF	
Carbon tetrachloride	10.0	9.790	0.280	0.274	-2.1	NA	+/- 40.0	AverageRF	
Benzene	10.0	9.814	1.024	1.005	-1.9	NA	+/- 40.0	AverageRF	
1,2-Dichloroethane	10.0	9.929	0.348	0.346	-0.7	NA	+/- 40.0	AverageRF	
Trichloroethene	10.0	9.773	0.261	0.255	-2.3	NA	+/- 40.0	AverageRF	
1,2-Dichloropropane	10.0	9.890	0.262	0.259	-1.1	NA	+/- 20.0	AverageRF	
Bromodichloromethane	10.0	9.967	0.294	0.293	-0.3	NA	+/- 40.0	AverageRF	
cis-1,3-Dichloropropene	10.0	9.749	0.366	0.357	-2.5	NA	+/- 40.0	AverageRF	
4-methyl-2-pentanone	50.0	50.36	0.228	0.230	0.7	NA	+/- 40.0	AverageRF	
Toluene	10.0	9.807	1.010	0.990	-1.9	NA	+/- 20.0	AverageRF	
trans-1,3-Dichloropropene	10.0	9.938	0.461	0.458	-0.6	NA	+/- 40.0	AverageRF	
1,1,2-Trichloroethane	10.0	9.768	0.255	0.249	-2.3	NA	+/- 40.0	AverageRF	
Tetrachloroethene	10.0	9.890	0.394	0.390	-1.1	NA	+/- 40.0	AverageRF	
2-Hexanone	50.0	50.71	0.225	0.228	1.4	NA	+/- 40.0	AverageRF	
Dibromochloromethane	10.0	10.02	0.304	0.304	0.2	NA	+/- 40.0	AverageRF	
Chlorobenzene	10.0	9.794	1.028	1.007	-2.1	NA	+/- 40.0	AverageRF	
Ethylbenzene	10.0	9.623	1.775	1.708	-3.8	NA	+/- 20.0	AverageRF	
Xylene (total)	30.0	29.50	0.654	0.644	-1.7	NA	+/- 40.0	AverageRF	
Styrene	10.0	9.922	1.056	1.048	-0.8	NA	+/- 40.0	AverageRF	
Bromoform	10.0	9.830	0.187	0.184	-1.7	NA	+/- 40.0	AverageRF	
1,1,2,2-Tetrachloroethane	10.0	9.930	0.801	0.796	-0.7	NA	+/- 40.0	AverageRF	
1,3-Dichlorobenzene	10.0	9.714	1.660	1.612	-2.8	NA	+/- 40.0	AverageRF	
1,4-Dichlorobenzene	10.0	9.846	1.676	1.650	-1.5	NA	+/- 40.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/15/2006

Second Source Calibration Verification
Volatile Organic Compounds

ICAL ID: **03/15/2006MSU**
Instrument ID: **MSU**
File ID: **U062052**

Column: DB-624

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
1,2-Dichlorobenzene	10.0	9.921	1.556	1.544	-0.8	NA	+/- 40.0	AverageRF	
1,2-dichloroethane-d4	N/A	N/A	0.262	0.262	0.0	NA	+/- 40.0	AverageRF	
Toluene-d8	N/A	N/A	1.288	1.297	0.0	NA	+/- 40.0	AverageRF	
Bromofluorobenzene	N/A	N/A	0.802	0.816	0.0	NA	+/- 40.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/13/2006

Continuing Calibration Verification Summary
Volatile Organic Compounds

ICAL ID: 03/11/2006MSU
Instrument ID: MSU
File ID: U061934

Column: DB-624

	Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
*	Chloromethane	10.0	8.455	0.10	0.229	0.194	-15.4	NA	+/- 40.0	AverageRF	
#	Vinyl chloride	10.0	9.596	0.01	0.237	0.227	-4.0	NA	+/- 20.0	AverageRF	
	Bromomethane	10.0	6.362	0.01	0.089	0.057	-36.4	NA	+/- 40.0	AverageRF	
	Chloroethane	10.0	10.53	0.01	0.133	0.140	5.3	NA	+/- 40.0	AverageRF	
#	1,1-Dichloroethene	10.0	9.845	0.01	0.177	0.175	-1.5	NA	+/- 20.0	AverageRF	
	Acetone	50.0	47.77	0.01	0.067	0.064	-4.4	NA	+/- 40.0	AverageRF	
	Carbon disulfide	10.0	10.21	0.01	0.441	0.451	2.1	NA	+/- 40.0	AverageRF	
	Methylene chloride	10.0	9.733	0.01	0.192	0.187	-2.7	NA	+/- 40.0	AverageRF	
	trans-1,2-Dichloroethene	10.0	10.02	0.01	0.275	0.276	0.2	NA	+/- 40.0	AverageRF	
	Tert-butylmethylether	10.0	10.48	0.01	0.735	0.770	4.8	NA	+/- 40.0	AverageRF	
*	1,1-Dichloroethane	10.0	10.01	0.10	0.493	0.493	0.1	NA	+/- 40.0	AverageRF	
	Vinyl acetate	10.0	10.64	0.01	0.977	1.039	6.4	NA	+/- 40.0	AverageRF	
	cis-1,2-Dichloroethene	10.0	10.24	0.01	0.296	0.303	2.4	NA	+/- 40.0	AverageRF	
	1,2-Dichloroethene (total)	20.0	20.26	0.01	0.285	0.289	1.3	NA	+/- 40.0	AverageRF	
	2-Butanone	50.0	54.15	0.01	0.109	0.118	8.3	NA	+/- 40.0	AverageRF	
#	Chloroform	10.0	9.901	0.01	0.485	0.480	-1.0	NA	+/- 20.0	AverageRF	
	1,1,1-Trichloroethane	10.0	9.788	0.01	0.412	0.403	-2.1	NA	+/- 40.0	AverageRF	
	Carbon tetrachloride	10.0	9.273	0.01	0.312	0.289	-7.3	NA	+/- 40.0	AverageRF	
	Benzene	10.0	10.06	0.01	1.068	1.075	0.6	NA	+/- 40.0	AverageRF	
	1,2-Dichloroethane	10.0	9.931	0.01	0.397	0.394	-0.7	NA	+/- 40.0	AverageRF	
	Trichloroethene	10.0	10.08	0.01	0.283	0.285	0.8	NA	+/- 40.0	AverageRF	
#	1,2-Dichloropropane	10.0	10.17	0.01	0.274	0.278	1.7	NA	+/- 20.0	AverageRF	
	Bromodichloromethane	10.0	9.742	0.01	0.340	0.332	-2.6	NA	+/- 40.0	AverageRF	
	cis-1,3-Dichloropropene	10.0	10.16	0.01	0.382	0.389	1.6	NA	+/- 40.0	AverageRF	
	4-methyl-2-pentanone	50.0	54.31	0.01	0.224	0.243	8.6	NA	+/- 40.0	AverageRF	
#	Toluene	10.0	10.05	0.01	1.051	1.057	0.5	NA	+/- 20.0	AverageRF	
	trans-1,3-Dichloropropene	10.0	9.874	0.01	0.491	0.484	-1.2	NA	+/- 40.0	AverageRF	
	1,1,2-Trichloroethane	10.0	10.09	0.01	0.273	0.275	0.9	NA	+/- 40.0	AverageRF	
	Tetrachloroethene	10.0	10.26	0.01	0.429	0.441	2.6	NA	+/- 40.0	AverageRF	
	2-Hexanone	50.0	55.99	0.01	0.219	0.245	12.0	NA	+/- 40.0	AverageRF	
	Dibromochloromethane	10.0	9.487	0.01	0.363	0.344	-5.1	NA	+/- 40.0	AverageRF	
*	Chlorobenzene	10.0	9.865	0.30	1.119	1.103	-1.3	NA	+/- 40.0	AverageRF	
#	Ethylbenzene	10.0	10.10	0.01	1.870	1.889	1.0	NA	+/- 20.0	AverageRF	
	Xylene (total)	30.0	30.72	0.01	0.682	0.699	2.4	NA	+/- 40.0	AverageRF	
	Styrene	10.0	10.15	0.01	1.121	1.138	1.4	NA	+/- 40.0	AverageRF	
*	Bromoform	10.0	9.249	0.10	0.203	0.187	-7.5	NA	+/- 40.0	AverageRF	
*	1,1,2,2-Tetrachloroethane	10.0	10.11	0.30	0.899	0.909	1.1	NA	+/- 40.0	AverageRF	
	1,3-Dichlorobenzene	10.0	10.18	0.01	1.806	1.838	1.8	NA	+/- 40.0	AverageRF	
	1,4-Dichlorobenzene	10.0	9.952	0.01	1.894	1.885	-0.5	NA	+/- 40.0	AverageRF	

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/13/2006

Continuing Calibration Verification Summary
Volatile Organic Compounds

ICAL ID: 03/11/2006MSU
Instrument ID: MSU
File ID: U061934

Column: DB-624

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
1,2-Dichlorobenzene	10.0	10.16	0.01	1.736	1.765	1.6	NA	+/- 40.0	AverageRF	
1,2-dichloroethane-d4	10.0	9.577	0.01	0.280	0.268	-4.2	NA	+/- 40.0	AverageRF	
Toluene-d8	10.0	9.813	0.01	1.309	1.284	-1.9	NA	+/- 40.0	AverageRF	
Bromofluorobenzene	10.0	10.12	0.01	0.768	0.777	1.2	NA	+/- 40.0	AverageRF	

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/16/2006

Continuing Calibration Verification Summary
Volatile Organic Compounds

ICAL ID: 03/15/2006MSU
Instrument ID: MSU
File ID: U062072

Column: DB-624

	Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
*	Chloromethane	10.0	9.571	0.10	0.262	0.251	-4.3	NA	+/- 40.0	AverageRF	
#	Vinyl chloride	10.0	10.14	0.01	0.245	0.248	1.4	NA	+/- 20.0	AverageRF	
	Bromomethane	10.0	10.52	0.01	0.088	0.092	5.1	NA	+/- 40.0	AverageRF	
	Chloroethane	10.0	7.701	0.01	0.185	0.142	-23.0	NA	+/- 40.0	AverageRF	
#	1,1-Dichloroethene	10.0	10.10	0.01	0.155	0.157	1.0	NA	+/- 20.0	AverageRF	
	Acetone	50.0	49.72	0.01	0.064	0.064	-0.5	NA	+/- 40.0	AverageRF	
	Carbon disulfide	10.0	10.41	0.01	0.459	0.478	4.1	NA	+/- 40.0	AverageRF	
	Methylene chloride	10.0	9.799	0.01	0.179	0.176	-2.0	NA	+/- 40.0	AverageRF	
	trans-1,2-Dichloroethene	10.0	10.24	0.01	0.253	0.259	2.4	NA	+/- 40.0	AverageRF	
	Tert-butylmethylether	10.0	9.665	0.01	0.709	0.685	-3.4	NA	+/- 40.0	AverageRF	
*	1,1-Dichloroethane	10.0	9.937	0.10	0.456	0.454	-0.6	NA	+/- 40.0	AverageRF	
	Vinyl acetate	10.0	9.956	0.01	1.029	1.025	-0.4	NA	+/- 40.0	AverageRF	
	cis-1,2-Dichloroethene	10.0	10.36	0.01	0.277	0.287	3.6	NA	+/- 40.0	AverageRF	
	1,2-Dichloroethene (total)	20.0	20.60	0.01	0.265	0.273	3.0	NA	+/- 40.0	AverageRF	
	2-Butanone	50.0	43.98	0.01	0.111	0.098	-12.0	NA	+/- 40.0	AverageRF	
#	Chloroform	10.0	10.22	0.01	0.436	0.446	2.2	NA	+/- 20.0	AverageRF	
	1,1,1-Trichloroethane	10.0	10.19	0.01	0.373	0.380	1.9	NA	+/- 40.0	AverageRF	
	Carbon tetrachloride	10.0	10.20	0.01	0.280	0.285	2.0	NA	+/- 40.0	AverageRF	
	Benzene	10.0	10.03	0.01	1.024	1.027	0.3	NA	+/- 40.0	AverageRF	
	1,2-Dichloroethane	10.0	10.39	0.01	0.348	0.362	3.9	NA	+/- 40.0	AverageRF	
	Trichloroethene	10.0	10.15	0.01	0.261	0.265	1.5	NA	+/- 40.0	AverageRF	
#	1,2-Dichloropropane	10.0	9.903	0.01	0.262	0.259	-1.0	NA	+/- 20.0	AverageRF	
	Bromodichloromethane	10.0	10.30	0.01	0.294	0.303	3.0	NA	+/- 40.0	AverageRF	
	cis-1,3-Dichloropropene	10.0	9.944	0.01	0.366	0.364	-0.6	NA	+/- 40.0	AverageRF	
	4-methyl-2-pentanone	50.0	44.45	0.01	0.228	0.203	-11.1	NA	+/- 40.0	AverageRF	
#	Toluene	10.0	9.952	0.01	1.010	1.005	-0.5	NA	+/- 20.0	AverageRF	
	trans-1,3-Dichloropropene	10.0	10.22	0.01	0.461	0.471	2.2	NA	+/- 40.0	AverageRF	
	1,1,2-Trichloroethane	10.0	9.881	0.01	0.255	0.252	-1.2	NA	+/- 40.0	AverageRF	
	Tetrachloroethene	10.0	10.54	0.01	0.394	0.415	5.4	NA	+/- 40.0	AverageRF	
	2-Hexanone	50.0	46.00	0.01	0.225	0.207	-8.0	NA	+/- 40.0	AverageRF	
	Dibromochloromethane	10.0	10.17	0.01	0.304	0.309	1.7	NA	+/- 40.0	AverageRF	
*	Chlorobenzene	10.0	10.22	0.30	1.028	1.051	2.2	NA	+/- 40.0	AverageRF	
#	Ethylbenzene	10.0	10.11	0.01	1.775	1.794	1.1	NA	+/- 20.0	AverageRF	
	Xylene (total)	30.0	30.66	0.01	0.654	0.669	2.2	NA	+/- 40.0	AverageRF	
	Styrene	10.0	10.05	0.01	1.056	1.061	0.5	NA	+/- 40.0	AverageRF	
*	Bromoform	10.0	9.207	0.10	0.187	0.172	-7.9	NA	+/- 40.0	AverageRF	
*	1,1,2,2-Tetrachloroethane	10.0	9.345	0.30	0.801	0.749	-6.5	NA	+/- 40.0	AverageRF	
	1,3-Dichlorobenzene	10.0	10.05	0.01	1.660	1.669	0.5	NA	+/- 40.0	AverageRF	
	1,4-Dichlorobenzene	10.0	10.19	0.01	1.676	1.707	1.9	NA	+/- 40.0	AverageRF	

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009
Date Analyzed: 03/16/2006

Continuing Calibration Verification Summary
Volatile Organic Compounds

ICAL ID: 03/15/2006MSU
Instrument ID: MSU
File ID: U062072

Column: DB-624

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
1,2-Dichlorobenzene	10.0	10.14	0.01	1.556	1.578	1.4	NA	+/- 40.0	AverageRF	
1,2-dichloroethane-d4	10.0	10.28	0.01	0.262	0.269	2.8	NA	+/- 40.0	AverageRF	
Toluene-d8	10.0	10.42	0.01	1.288	1.342	4.2	NA	+/- 40.0	AverageRF	
Bromofluorobenzene	10.0	10.13	0.01	0.802	0.813	1.3	NA	+/- 40.0	AverageRF	

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009

Analysis Run Log
Volatile Organic Compounds

Analysis Method: SW8260

Instrument ID: MSU
Column: DB-624

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
U061908	VSTD00.5	VSTD00.5	03/11/2006	16:07		03/11/2006	16:28
U061909	VSTD001	VSTD001	03/11/2006	16:33		03/11/2006	16:54
U061910	VSTD005	VSTD005	03/11/2006	16:58		03/11/2006	17:19
U061911	VSTD010	VSTD010	03/11/2006	17:24		03/11/2006	17:45
U061912	VSTD020	VSTD020	03/11/2006	17:50		03/11/2006	18:11
U061913	VSTD040	VSTD040	03/11/2006	18:15		03/11/2006	18:36
U061915	QCALTSTD	QCALTSTD	03/11/2006	19:06		03/11/2006	19:27
U061934	VSTD010	VSTD010	03/13/2006	10:00		03/13/2006	10:21
U061935	Laboratory Control Sample	U0313W01LCS	03/13/2006	10:25		03/13/2006	10:46
U061936	Laboratory Control Sample Duplicate	U0313W01LCSD	03/13/2006	10:51		03/13/2006	11:12
U061940	Method Blank	U0313W01	03/13/2006	12:33		03/13/2006	12:54
U061948	DAESP03CL	DH009002	03/13/2006	15:57		03/13/2006	16:18
U061949	231GW21CL	DH009004	03/13/2006	16:23		03/13/2006	16:44
U062045	VSTD00.5	VSTD00.5	03/15/2006	17:21		03/15/2006	17:42
U062046	VSTD001	VSTD001	03/15/2006	17:46		03/15/2006	18:07
U062047	VSTD005	VSTD005	03/15/2006	18:12		03/15/2006	18:33
U062048	VSTD010	VSTD010	03/15/2006	18:37		03/15/2006	18:58
U062049	VSTD020	VSTD020	03/15/2006	19:03		03/15/2006	19:24
U062050	VSTD040	VSTD040	03/15/2006	19:28		03/15/2006	19:49
U062052	QCALTSTD	QCALTSTD	03/15/2006	20:19		03/15/2006	20:40
U062072	VSTD010	VSTD010	03/16/2006	08:56		03/16/2006	09:17
U062073	Laboratory Control Sample	U0316W01LCS	03/16/2006	09:21		03/16/2006	09:42
U062074	Laboratory Control Sample Duplicate	U0316W01LCSD	03/16/2006	09:47		03/16/2006	10:08
U062077	Method Blank	U0316W01	03/16/2006	11:04		03/16/2006	11:25
U062080	231GW21CLDL	DH009004DL	03/16/2006	12:20		03/16/2006	12:41

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Extracted: 03/13/2006

Extraction Prep Log
Volatile Organic Compounds

Extaction Method: SW5030
Analysis Method: SW8260

Extraction Lot: U0313W01
Level:

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	U0313W01	NA	NA	10.00 ML	10.00	NA	
Laboratory Control Sample	U0313W01LCS	NA	NA	10.00 ML	10.00	NA	
Laboratory Control Sample Duplicate	U0313W01LCSD	NA	NA	10.00 ML	10.00	NA	
DAESP03CL	DH009002	03/08/2006	03/09/2006	10.00 ML	10.00	NA	
231GW21CL	DH009004	03/08/2006	03/09/2006	10.00 ML	10.00	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: TREADWELL & ROLLO
Project: PRESIDIO
Sample Matrix: Water

Service Request: DH009
Date Extracted: 03/16/2006

Extraction Prep Log
Volatile Organic Compounds

Extaction Method: SW5030
Analysis Method: SW8260

Extraction Lot: U0316W01
Level:

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	U0316W01	NA	NA	10.00 ML	10.00	NA	
Laboratory Control Sample	U0316W01LCS	NA	NA	10.00 ML	10.00	NA	
Laboratory Control Sample Duplicate	U0316W01LCSD	NA	NA	10.00 ML	10.00	NA	
231GW21CLDL	DH009004DL	03/08/2006	03/09/2006	10.00 ML	10.00	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: TREADWELL & ROLLO
Project: PRESIDIO

Service Request: DH009

Holding Time Summary
Volatile Organic Compounds

Analysis Method: SW8260

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
DAESP03CL	03/08/2006	03/09/2006	N/A	N/A	N/A	N/A	N/A	N/A	03/13/2006	14	5	
231GW21CL	03/08/2006	03/09/2006	N/A	N/A	N/A	N/A	N/A	N/A	03/13/2006	14	5	
231GW21CLDL	03/08/2006	03/09/2006	N/A	N/A	N/A	N/A	N/A	N/A	03/16/2006	14	8	

Comments:

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: SW8260 Matrix: Water

Instrument ID: MSU

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
ETHYLBENZENE	02/21/2006	0.50	0.394	0.464	0.492	0.466	0.345	0.491	0.471	0.440	0.052	0.16
STYRENE	02/21/2006	0.50	0.334	0.416	0.432	0.426	0.314	0.456	0.424	0.394	0.050	0.15
CIS-1,3-DICHLOROPROPENE	02/21/2006	0.50	0.359	0.409	0.387	0.427	0.304	0.445	0.400	0.403	0.044	0.13
TRANS-1,3-DICHLOROPROPE	02/21/2006	0.50	0.314	0.368	0.387	0.363	0.273	0.396	0.385	0.332	0.043	0.13
1,4-DICHLOROBENZENE	02/21/2006	0.50	0.424	0.505	0.485	0.496	0.387	0.518	0.482	0.466	0.044	0.13
1,2-DICHLOROETHANE	02/21/2006	0.50	0.398	0.478	0.525	0.491	0.364	0.504	0.533	0.453	0.060	0.18
VINYL ACETATE	02/21/2006	0.50	0.395	0.439	0.472	0.487	0.297	0.394	0.446	0.438	0.060	0.18
4-METHYL-2-PENTANONE	02/21/2006	2.50	1.914	2.002	2.102	2.132	1.755	2.160	2.050	1.964	0.13	0.40
TOLUENE	02/21/2006	0.50	0.376	0.453	0.483	0.459	0.349	0.478	0.455	0.434	0.049	0.15
CHLOROBENZENE	02/21/2006	0.50	0.404	0.494	0.486	0.485	0.371	0.502	0.509	0.460	0.050	0.15
DIBROMOCHLOROMETHANE	02/21/2006	0.50	0.406	0.436	0.445	0.441	0.340	0.459	0.424	0.411	0.037	0.11
TETRACHLOROETHENE	02/21/2006	0.50	0.411	0.492	0.486	0.479	0.345	0.517	0.465	0.434	0.055	0.17
XYLENES (TOTAL)	02/21/2006											0.11
CIS-1,2-DICHLOROETHENE	02/21/2006	0.50	0.405	0.468	0.485	0.504	0.385	0.506	0.505	0.449	0.047	0.14
TRANS-1,2-DICHLOROETHEN	02/21/2006	0.50	0.438	0.486	0.518	0.496	0.376	0.528	0.484	0.465	0.049	0.15
TERT-BUTYLMETHYLETHER	02/21/2006	0.50	0.402	0.448	0.465	0.477	0.369	0.507	0.455	0.424	0.044	0.13
1,2-DICHLOROETHENE	02/21/2006											0.14
1,3-DICHLOROBENZENE	02/21/2006	0.50	0.392	0.454	0.465	0.468	0.372	0.512	0.465	0.421	0.046	0.14
CARBON TETRACHLORIDE	02/21/2006	0.50	0.402	0.521	0.537	0.509	0.383	0.484	0.515	0.438	0.059	0.18
2-HEXANONE	02/21/2006	2.50	1.560	1.818	1.934	1.821	1.415	1.848	1.781	1.585	0.18	0.54
ACETONE	02/21/2006	2.50	3.209	3.297	3.482	3.549	3.207	3.560	3.148	2.824	0.25	0.74
CHLOROFORM	02/21/2006	0.50	0.423	0.488	0.521	0.505	0.380	0.521	0.507	0.490	0.051	0.15
BENZENE	02/21/2006	0.50	0.406	0.468	0.488	0.497	0.358	0.502	0.495	0.461	0.051	0.15
1,1,1-TRICHLOROETHANE	02/21/2006	0.50	0.425	0.485	0.499	0.510	0.364	0.504	0.515	0.450	0.053	0.16
BROMOMETHANE	02/21/2006	0.50	0.378	0.604	0.530	0.527	0.417	0.451	0.541	0.561	0.077	0.23
CHLOROMETHANE	02/21/2006	0.50	0.462	0.548	0.541	0.568	0.447	0.578	0.573	0.573	0.052	0.16
CHLOROETHANE	02/21/2006	0.50	0.454	0.522	0.552	0.503	0.377	0.542	0.570	0.510	0.062	0.19
VINYL CHLORIDE	02/21/2006	0.50	0.456	0.536	0.533	0.539	0.421	0.544	0.513	0.480	0.046	0.14
METHYLENE CHLORIDE	02/21/2006	0.50	0.458	0.480	0.509	0.528	0.442	0.575	0.512	0.522	0.042	0.13
CARBON DISULFIDE	02/21/2006	0.50	0.401	0.469	0.511	0.492	0.367	0.537	0.502	0.467	0.058	0.17
BROMOFORM	02/21/2006	0.50	0.383	0.401	0.414	0.383	0.288	0.413	0.407	0.387	0.041	0.12
BROMODICHLOROMETHANE	02/21/2006	0.50	0.420	0.462	0.474	0.471	0.358	0.487	0.498	0.464	0.045	0.14
ISOPROPYLETHER	02/21/2006	0.50	0.408	0.468	0.479	0.492	0.369	0.487	0.484	0.465	0.044	0.13
1,1-DICHLOROETHENE	02/21/2006	0.50	0.405	0.499	0.518	0.491	0.385	0.543	0.542	0.457	0.060	0.18
1,2-DICHLOROPROPANE	02/21/2006	0.50	0.392	0.463	0.467	0.485	0.366	0.507	0.470	0.460	0.048	0.14
2-BUTANONE	02/21/2006	2.50	2.128	2.365	2.395	2.524	2.134	2.396	2.294	2.166	0.15	0.44

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: SW8260 Matrix: Water

Instrument ID: MSU

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
1,1,2-TRICHLOROETHANE	02/21/2006	0.50	0.400	0.491	0.503	0.457	0.378	0.520	0.458	0.443	0.049	0.15
TRICHLOROETHENE	02/21/2006	0.50	0.372	0.511	0.507	0.517	0.396	0.568	0.525	0.444	0.069	0.21
1,1,2,2-TETRACHLOROETHAN	02/21/2006	0.50	0.405	0.460	0.465	0.446	0.358	0.439	0.454	0.437	0.035	0.11
1,2-DICHLOROBENZENE	02/21/2006	0.50	0.424	0.472	0.474	0.481	0.353	0.504	0.470	0.449	0.047	0.14

Table F-2
Columbia Analytical Services
Sample Delivery Group Index List
Second Quarter 2006
Presidio-wide Groundwater Monitoring Project
Presidio of San Francisco, California

Location ID	Sample Date	SDG Number
1065MW9ACL	5/24/2006	D0600543
1213GW101CL	5/24/2006	D0600543
1349MW100CL	5/24/2006	D0600543
BHWGW01CL	5/24/2006	D0600543
TB0524061ACL	5/24/2006	D0600543

5090 Caterpillar Road Redding, California 96003 (530) 244-5227 (530) 244-4109 fax

Columbia Analytical Services INC.
An Employee - Owned Company

July 06, 2006

Service Request No: D0600543

Josh Graber
Treadwell and Rollo
555 Montgomery St.
San Francisco, CA 94111

RECEIVED
JUL 07 2006
TREADWELL & ROLLO

RE: Presidio

Dear Josh:

Enclosed are the results of the sample(s) submitted to our laboratory on May 26, 2006. For your reference, these analyses have been assigned our service request number D0600543.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 104. You may also contact me via email at KSellers@redding.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Karen Sellers

Karen Sellers
Project Chemist

CC: Donna Breaux
Lisa Norosky

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CAS Service Request: D0600693
CAS Tier Level: III

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152	GC TPH GASOLINE
174	GC ORGANOCHLORINE PESTICIDES
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Current CAS Redding Accreditation Programs

Federal and National Programs

- U.S Air Force, Air Force Center for Environmental Excellence (AFCEE)
  Approved laboratory for Wastewater and Hazardous Waste
- U.S. Army Corps of Engineers – MRD, HTRW Mandatory Center of Expertise
  Validated for Wastewater and Hazardous Waste
- Department of the Navy, Naval Facilities Engineering Service Center (NFESC)
  Approved laboratory for Wastewater and Hazardous Waste

State and Local Programs

- State of Alaska, Department of Environmental Conservation
  Approved Laboratory for Contaminated Sites
  Lab ID UST-001
- State of Arizona, Department of Health Services, Office of Laboratory Licensure
  Approved Laboratory for Drinking Water, Wastewater, and Hazardous Waste
  Lab ID AZ0604
- State of California, Department of Health Services, National Environmental Laboratory Accreditation Program **(NELAP)**
  Approved Laboratory for Drinking Water, Wastewater and Hazardous Waste
  Lab ID 01105CA
  - Los Angeles County Sanitation District
    Approved Laboratory for Wastewater
    Lab ID 10243
- State of California, Department of Health Services, Environmental Laboratory Accreditation Program (ELAP)
  Approved Laboratory for Microbiology of Drinking Water and Wastewater
  Lab ID 2635
- State of Florida, Department of Health, Bureau of Laboratories **(NELAP)**
  Approved Environmental Testing Laboratory for Wastewater and Hazardous Waste
  Lab ID E87203
- State of Kansas, Department of Health and Environment **(NELAP)**
  Approved Laboratory for Hazardous Waste
  Lab ID E-10323
- State of Massachusetts, Department of Environmental Protection
  Approved laboratory for Drinking Water and Wastewater
  Lab ID M-CA025
- State of Oklahoma, Department of Environmental Quality
  Approved Laboratory for General Water Quality/Sludge Testing
  Lab ID 9952
- State of Oregon, Environmental Laboratory Accreditation Program **(ORELAP)**
  Approved Laboratory for Drinking Water, Wastewater, and Hazardous Waste
  Lab ID CA200004
- State of Utah, Department of Health, Bureau of Laboratory Improvement **(NELAP)**
  Approved Laboratory for Wastewater and Hazardous Waste
  Lab ID QUAL1
- State of Washington, Department of Ecology
  Approved Laboratory for Wastewater and Hazardous Waste
  Lab ID C1234
- State of Wisconsin, Department of Natural Resources
  Approved Laboratory for Wastewater and Hazardous Waste
  Lab ID 999767340

Data Qualifiers for Organic Analyses

A -- This qualifier indicates that a Tentatively Identified Compound (TIC) is a suspected aldol-condensation product.

B -- This qualifier is used when the analyte is found in the associated blank as well as the sample, indicating possible blank contamination. The data user should carefully evaluate the qualified analyte and the reported concentrations.

C -- This qualifier indicates the presence of this compound has been confirmed by the GC/MS analysis.

D -- This qualifier is used for all the analytes identified in an analysis at a secondary dilution factor. "D" qualifiers are used only for the samples reported at more than one dilution factor.

E -- This qualifier indicates that the value reported exceeds the linear calibration range for that analyte. Therefore, the sample should be reanalyzed at the appropriate dilution. The "E" qualified amount is an estimated concentration, and the results of the dilution will be reported on a separate Form I.

J -- Indicates an estimated value. This qualifier is used when the data indicates the presence of a target analyte below the reporting limit or the presence of a Tentatively Identified Compound (TIC).

N -- This qualifier indicates presumptive evidence of an analyte. This flag is only used for Tentatively Identified Compounds (TIC) where the identification is based on a mass spectral library research. It is applied to all TIC results. For generic characterization of a TIC, such as a chlorinated hydrocarbon, the "N" qualifier is not used.

P -- This qualifier is used for target analytes when there is a greater than 40% difference for detected concentrations between the two columns or detectors. The concentration value is reported on Form I and flagged with a "P".

U -- Indicates the compound was analyzed for but not detected. The number adjacent to the "U" qualifier indicates the reporting limit for that compound. The reporting limit can vary from sample to sample depending on dilution factors or percent moisture adjustments when indicated.

DL -- Diluted reanalysis. "DL" indicates that the results were determined in an analysis of a secondary dilution of a sample or extract. A digit to indicate multiple dilutions of the sample or extract may follow the "DL" suffix. The results of more than one diluted reanalysis may be reported.

MS -- Matrix spike (may be followed by a digit to indicate multiple matrix spikes within a sample set).

MSD -- Matrix spike duplicate (may be followed by a digit to indicate multiple matrix spikes within a sample set).

R -- Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. It may be followed by a digit to indicate multiple reanalysis of the sample at the same dilution.

RE -- Re-extraction and reanalysis. The sample was re-extracted and reanalyzed. It may be followed by a digit to indicate multiple re-extracted analysis of the same sample at the same dilution.

Data Qualifiers for Metals and Wet Chemistry Analyses

B or **J**-- The reported value obtained was less than the MRL/CRDL, but greater than or equal to the MDL/IDL.

U -- The value was less than the MDL/IDL or was not detected.

E -- The reported value is estimate because of interference.

N -- Spiked sample recovery not within control limits.

ND -- Not detected at or above the MRL/CRDL.

* -- Duplicate analysis not within control limits.

Client: Treadwell and Rollo
Project: Presidio

Service Request: D0600543

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
D0600543-001	1213GW101CL	05/24/06	13:30
D0600543-002	1349MW100CL	05/24/06	13:00
D0600543-003	1065MW9ACL	05/24/06	15:00
D0600543-004	BHWGW01CL	05/25/06	09:20
D0600543-005	TB0524061ACL	05/24/06	00:00

CASE NARRATIVE

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Treadwell & Rollo, Inc.	**Service Request No.:**	D0600543
Project:	Presidio	**Date Received:**	5/26/06
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III validation deliverables.

Sample Receipt

Five water samples were received for analysis at Columbia Analytical Services on 5/26/06.

The following discrepancies were noted upon initial sample inspection and documented on the cooler receipt/preservation form included in this data package:

- Inappropriate sample container provided for sulfide analysis. Sample must be collected in Sodium Hydroxide and Zinc Acetate-preserved container. A 250-ml portion of the sample from an unpreserved 1 liter bottle was preserved with the appropriate preservative at the lab at time of receipt.
- Although two volatile analyses were requested, 8260 and 8015-Gas, only 3 40-ml VOA vials were received for each sample. Ideally the lab requests that 3 vials per analysis be provided. Sample containers were split among the 2 analyses.

The samples were received in good condition and otherwise consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

General Chemistry Parameters

Elevated Method Reporting Limits:
The following samples required analyses on dilutions due to the presence of elevated levels of analytes.

- 1213GW101CL, 1349MW100CL, 1065MW9ACL and BHWGW01CL for Alkalinity and Chloride.
- 1213GW101CL and BHWGW01CL for Nitrate.
- 1349MW100CL and 1065MW9ACL for Total Dissolved Solids.
- 1213GW101CL for Sulfate.

Dissolved Metals

Lab Control Sample Exceptions:
The upper control criterion was exceeded for the following analyte in Laboratory Control Sample (LCS) LCSW-0602: Iron. The error associated with elevated recovery equates to a high bias, however, the recovery of 121% for Iron meets the laboratory's upper in-house control criterion of 124.9%. The sample data is not significantly affected. No further corrective action was appropriate.

Diesel Range Organics by EPA Method 8015B

Matrix Spike Recovery Exceptions:

Approved by: Karen Sellers **Date:** 7/6/06

Insufficient sample volume was received to perform a Matrix Spike/Matrix Spike Duplicate (MS/MSD). A Laboratory Control Sample/Duplicate Laboratory Control Sample (LCS/DLCS) was analyzed in order to report precision data.

Lab Control Sample and Relative Percent Difference Exceptions:
The control criteria for the following analyte TPH-Motor Oil in Laboratory Control and Duplicate Laboratory Control Samples DWB10531LCS and DWB10531LCSD are not applicable. Due to an error during the extraction process, lab control samples were only spiked with TPH-Diesel. However, all samples were analyzed for both target analytes. No further corrective action was appropriate.

Elevated Method Reporting Limits:
Sample 1349MW100CL required dilution due to the presence of elevated levels of target analyte. The reporting limits are adjusted to reflect the dilution.

Sample Notes and Discussion:
A silica gel clean up was performed on all samples prior to instrumental analysis per client request.

Gasoline Range Organics by EPA Method 8015B

No anomalies associated with the analysis of these samples by the above-mentioned methods were observed.

Organochlorine Pesticides by EPA Method 8081A

Surrogate Exceptions:
The control criteria were exceeded for the following surrogate in PWB10531LCS, PWB10531LCSD, and 1349MW100CL: Decachlorobiphenyl. Since the problem may indicate a potential bias in the analytical batch, all associated field samples were reanalyzed. The surrogates yielded similar results for the reanalysis. The second surrogate, Tetrachloro-m-xylene, met all quality control criteria in all samples. The target analytes met all quality control criteria in the Laboratory Control Sample, PWB10531LCS, and the Duplicate Laboratory Control Sample, PWB10531LCSD. Therefore, the results from the reanalysis are reported.

Volatile Organic Compounds by EPA Method 8260B

No anomalies associated with the analysis of these samples by the above-mentioned methods were observed.

Polynuclear Aromatic Hydrocarbons by EPA Method 8310

Surrogate Exceptions:
The surrogate recoveries for Samples D0600543-001 (1213GW101CL; 62%) and D0600543-002 (1349MW100CL; 42%) were below the project specific criteria of 65 – 135%. The sample -001 did meet the laboratory's in-house criteria of 44 – 116%. Surrogate recovery for the method blank as well as all recoveries for the LCS/LCSD met project control criteria (NCF #GC-06018).

Approved by: Karen Sellers **Date:** 7/6/06

CHAIN OF CUSTODY DOCUMENTATION

Treadwell&Rollo 5260138

Environmental and Geotechnical Consultants

555 Montgomery St., Suite 1300, San Francisco, CA 94111

Ph: 415.955.9040 FAX: 415.955.9041

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

[redacted]

Project Name: Presidio of San Francisco

Location: Presidio of San Francisco

Sampled By (Firm and Samplers): BTS / D. Raymond, John DeJong

Recorder (signature required): [signature]

Sent to Laboratory (Name): Columbia

PROJECT MANAGER: Joshua Graber

PROJECT NUMBER: 2893

TURNAROUND TIME: 10 Days

Project Laboratory to follow Presidio Quality Assurance Project Plan (Tetra Tech, 2001)

REQUESTED ANALYSES

SAMPLE IDENTIFICATION	DATE	TIME	LAB ID	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers and Preservation: HCl	H_2SO_4	HNO_3	NaOH 2nd	Other	TPHg (8015M)	TPHd (8015M) [1]	TPHfo (8015M) [1]	VOCs (8260) MW B	General Chemistry [2]	OCPs (8081)	Metals - Dissolved [3] (23, 22, 13, 9, 8, 7, 3, Other)	Metals - Total [3] (23, 22, 13, 9, 7, 3, Other)	TDS (160.1)	PAHs (8310)	Dissolved Metals (23)	Diss. Metals (13)	BTEX, MTBE	Total Sulfide			COMMENTS / NOTES
1213GW101CL	5/24/06	1330	1		X		6		1			X	X	X	X	X					X	X						
1349MW100CL	↓	1300	2		X		6		1		7	X	X	X	X	X	X	X		X	X		X	Mg				
1065MW9ACL	↓	1500	3				3		1	1	3	X	X	X		X				X			X	X	X			
13HWGW01CL	5/25/06	0920	4													X						X						
TB052406ACL	5/24/06	—	5												X													

Notes: 1 - Use EPA 3630A Silica Gel Cleanup Step. 2 - General Chemistry (Total Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Nitrate, Nitrite, and Sulfate)
3 - **Indicate in the metals column (by number) which metals list is requested. Metals Lists** (23 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Tl, V, and Zn)
Metals List Cont. (22 - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Tl, V, and Zn) (13 - As, Ca, Cr, Cd, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, and Zn) (9 - As, Cr, Cd, Cu, Fe, Mn, Pb, Ni and Zn) (8 - As, Cr, Cd, Cu, Fe, Pb, Ni and Zn)
Metals List Cont. (7 - As, Cr, Cd, Cu, Pb, Ni and Zn) (3 - Al, Fe, and Cr) (**Other** -

RELINQUISHED BY: [signature]		DATE: 5/25/06	RECEIVED BY: [signature] P. BINS	CAS		DATE: 5/25/06
PRINT NAME:	FIRM: BTS	TIME: 1715	PRINT NAME:	FIRM:		TIME: 1715
RELINQUISHED BY: [signature]		DATE: 5/25/06	RECEIVED BY: [signature]			DATE: 5/26/06
PRINT NAME: P. BINS	FIRM: CAS Via GSO	TIME: 1820	PRINT NAME: T. Chatman	FIRM: CAS Redding		TIME: 0930

ADDITIONAL REMARKS / LABORATORY NOTES:

Method of Shipment:

White Copy - Original **Yellow Copy** - Laboratory **Pink Copy** - Field

Columbia Analytical Services inc.
An Employee-Owned Company

5090 Caterpillar Road
Redding, CA 96003
Phone: (530) 244-5262

[redacted]

COOLER RECEIPT FORM

Project/Client: _____ Batch No.: _____

1. Cooler(s)/Sample(s) received on: 5/26/06 Shipped via: LSO
   Shipping Bill # (s): 0600525193 1 # of Coolers/Packages 2
2. Radiological Screening by: _____ Acceptable Rejected
3. Custody seals on outside of cooler: YES NO N/A
   If yes, where? Front_____ Rear_____ Lt Side_____ Rt Side_____
   Seals intact: YES NO

COOLER/SAMPLE PROCESSING

4. Sample Processing/Tagging by: JHadman
5. Cooler(s)/Sample(s) Temp's: 2.0C 2.0C _____ _____ _____
   (or)
   Temp. Blank (if included): _____ _____ _____ _____ _____
6. Type of packing material (circle): Ice Blue Ice Bubble Wrap Bubble Bags Zip Locks Webbing
   Other: _____
7. Custody papers properly filled out (ink, signed, dated, released, etc.)? YES NO
8. Containers arrived in good condition (not broken, leaking, etc.)? YES NO
9. Samples received with adequate holding time remaining to conduct analysis? YES NO
10. Container labels complete (i.e. analysis, preservation, date/time, etc.)? YES NO
11. Container labels and tags agree with custody papers? YES NO
12. Correct types of containers used for the tests indicated? YES NO
    a.) Adequate sample received? If not, note on Exception Report. YES NO
13. Containers supplied by: CAS Other
14. Preserved containers received with the appropriate preservative? YES NO N/A
    pH: _____ (or) See pH log.
15. VOA vials free of air bubbles? YES NO N/A
16. Trip Blank preparation date: _____ CAS Other N/A
17. Volatile Soil samples: Encores or Plugs in Vials
    Freezer or GC/MS Date: _____ Time: _____ N/A

See Exception Report for discrepancies.

Rev. 8/18/2004/ds

Columbia Analytical Services inc.
An Employee [redacted]
5090 Caterpillar Road
Redding, CA 96003
Phone: 530-244-5227
Fax: 530-244-4109

pH Log

Reference No [redacted] By: [illegible] Date: 5/26/04

Project/Client [redacted]

Tests: >	Metals		Sulfide		VOAS
Sample No:	HNO3 pH<2	H2SO4 pH<2	ZnAc2/NaOH pH>9	NaOH pH>12	HCL pH<2
-001	<2		—		DRESPER
-002	<2		—		
-003	4		>9		
-004	<2		—		
-005	—		—		
-006					
-007					
-008					
-009					
-010					
-011					
-012					
-013					
-014					
-015					
-016					
-017					
-018					
-019					
-020					

Adjustments by Lab: Shown below by sample number and quantity of preservative in the appropriate column.

Sample No:	HNO3 pH<2	H2SO4 pH<2	ZnAc2/NaOH pH>9	NaOH pH>12	HCL pH<2
	Lot# 639632	Lot#	Lot#	Lot#	Lot#
3	+2mL = <2 pH	mL	mL	mL	mL
	mL	mL	mL	mL	mL
	mL	mL	mL	mL	mL
	mL	mL	mL	mL	mL

Columbia Analytical Services INC.
An Employee - Owned Company

5090 Caterpillar Road
Redding, CA 96003
530-244-5227
FAX 530-244-4109

BATCH:

CLIENT [redacted]

PROJECT [redacted]

SAMPLE RECEIPT EXCEPTION REPORT

Issue Type Legend		
	1) Holding Time	SMO Technician / Date: 5/26/06
	2) Temperature	Project Chemist / Date:
	3) COC/Label	Client Contact(s):
	4) Container	
	5) Other	

Item #	Issue Type	DESCRIPTION
1	4	Client Requested Sulfide Analysis for Sample 1065 MW 9 ACL - A preserved container was not provided. I took a 250 ml split from the 1 liter unpreserved sample & preserved with NaOH/Zinc Ace. Advised P.M. Ed Wilson
	4	Client Requested 8260 & 8015b - only 3 VOA containers were submitted. Advised P.M. Ed Wilson Noted at task level to share containers.

Corrective Actions Taken

1	

GENERAL CHEMISTRY

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Treadwell and Rollo, Inc.
Project Name : Presidio
Project Number : NA
Sample Matrix : WATER

Service Request : D0600543
Date Collected : 05/24/06
Date Received : 05/26/06

Inorganic Parameters

Sample Name : 1213GW101CL
Lab Code : D0600543-001
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	PQL	Dilution Factor	Date/Time Analyzed	Date Prepared	Result	Result Notes
Alkalinity as CaCO3, Total	mg/L	310.1	20	2	06/01/06 09:00	NA	404	
Chloride	mg/L	300.0	20	20	06/08/06 17:35	NA	362	
Fluoride	mg/L	300.0	1	1	06/06/06 20:35	NA	ND	U
Nitrate as Nitrogen	mg/L	353.2	0.1	5	06/09/06 18:55	06/09/06	1.76	
Nitrite as Nitrogen	mg/L	354.1	0.02	1	05/26/06 19:40	05/26/06	0.022	
Sulfate	mg/L	300.0	5	5	06/06/06 18:38	NA	132	

Report By: C.Skillern

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Treadwell and Rollo, Inc.
Project Name : Presidio
Project Number : NA
Sample Matrix : WATER

Service Request : D0600543
Date Collected : 05/24/06
Date Received : 05/26/06

Inorganic Parameters

Sample Name : 1349MW100CL
Lab Code : D0600543-002
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	PQL	Dilution Factor	Date/Time Analyzed	Date Prepared	Result	Result Notes
Alkalinity as CaCO3, Total	mg/L	310.1	40	4	06/01/06 09:00	NA	820	
Chloride	mg/L	300.0	100	100	06/08/06 18:19	NA	930	
Fluoride	mg/L	300.0	1	1	06/06/06 21:19	NA	ND	U
Nitrate as Nitrogen	mg/L	353.2	0.02	1	06/09/06 18:55	06/09/06	ND	U
Nitrite as Nitrogen	mg/L	354.1	0.02	1	05/26/06 19:40	05/26/06	ND	U
Solids, Total Dissolved	mg/L	160.1	100	5	05/31/06 09:00	NA	2110	
Sulfate	mg/L	300.0	1	1	06/06/06 19:51	NA	55.9	

Report By: C.Skillern

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Treadwell and Rollo, Inc.
Project Name : Presidio
Project Number : NA
Sample Matrix : WATER

Service Request : D0600543
Date Collected : 05/24/06
Date Received : 05/26/06

Inorganic Parameters

Sample Name : 1065MW9ACL
Lab Code : D0600543-003
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	PQL	Dilution Factor	Date/Time Analyzed	Date Prepared	Result	Result Notes
Alkalinity as CaCO3, Total	mg/L	310.1	20	2	06/01/06 09:00	NA	436	
Chloride	mg/L	300.0	5	5	06/06/06 20:06	NA	170	
Fluoride	mg/L	300.0	1	1	06/06/06 21:33	NA	ND	U
Nitrate as Nitrogen	mg/L	353.2	0.02	1	06/09/06 18:55	06/09/06	ND	U
Nitrite as Nitrogen	mg/L	354.1	0.02	1	05/26/06 19:40	05/26/06	ND	U
Solids, Total Dissolved	mg/L	160.1	40	2	05/31/06 09:00	NA	694	
Sulfate	mg/L	300.0	1	1	06/06/06 20:06	NA	17.3	

Report By: C.Skillern

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Treadwell and Rollo, Inc.
Project Name : Presidio
Project Number : NA
Sample Matrix : WATER

Service Request : D0600543
Date Collected : 05/25/06
Date Received : 05/26/06

Inorganic Parameters

Sample Name : BHWGW01CL
Lab Code : D0600543-004
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	PQL	Dilution Factor	Date/Time Analyzed	Date Prepared	Result	Result Notes
Alkalinity as CaCO3, Total	mg/L	310.1	20	2	06/01/06 09:00	NA	512	
Chloride	mg/L	300.0	10	10	06/08/06 18:34	NA	220	
Fluoride	mg/L	300.0	1	1	06/06/06 21:48	NA	ND	U
Nitrate as Nitrogen	mg/L	353.2	0.2	10	06/09/06 18:55	06/09/06	6.49	
Nitrite as Nitrogen	mg/L	354.1	0.02	1	05/26/06 19:40	05/26/06	ND	U
Sulfate	mg/L	300.0	1	1	06/06/06 20:20	NA	68.0	

Report By: C.Skillern

QC Summary

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Service Request: D0600543
Client : Treadwell and Rollo, Inc.
Project : Presidio

Initial and Continuing Calibration Verification
Form II

Analyte	Analysis Method	Date Analyzed	Units	Initial Calibration			Continuing Calibration						
								#1		#2		#3	
				True	Result	%R	True	Result	%R	Result	%R	Result	%R
Alkalinity	310.1	06/01/06	units	7.00	7.03	100							
Chloride	300.0	06/06/06	mg/L	5.00	5.33	107	4.00	4.11	103	4.15	104		-
Chloride	300.0	06/08/06	mg/L	5.00	5.13	103	4.00	4.14	104	4.34	109		-
Fluoride	300.0	06/06/06	mg/L	2.50	2.63	105	2.00	2.14	107	2.14	107		-
Nitrate	353.2	06/09/06	mg/L	0.500	0.497	99	0.800	0.806	101	0.805	101	0.808	101
Nitrite	354.1	05/26/06	mg/L	0.150	0.152	101							
Solids, Tot. Diss.	160.1	05/31/06	mg/L										
Sulfate	300.0	06/06/06	mg/L	10.00	9.61	96	8.00	8.11	101	8.15	102		-

Control Limits are 90-110% unless noted.

Remarks

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Service Request: D0600543
Client : Treadwell and Rollo, Inc.
Project : Presidio

Initial and Continuing Calibration Verification
Form II (continued)

Analyte	Analysis Method	Date Analyzed	Units	Continuing Calibration								
					#4		#5		#6		#7	
				True	Result	%R	Result	%R	Result	%R	Result	%R
Alkalinity	310.1	06/01/06	units									
Chloride	300.0	06/06/06	mg/L									
Chloride	300.0	06/08/06	mg/L									
Fluoride	300.0	06/06/06	mg/L									
Nitrate	353.2	06/09/06	mg/L	0.800	0.809	101	0.811	101		-		-
Nitrite	354.1	05/26/06	mg/L									
Solids, Tot. Diss.	160.1	05/31/06	mg/L									
Sulfate	300.0	06/06/06	mg/L									

Control Limits are 90-110% unless noted.

Remarks

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Service Request: D0600543
Client : Treadwell and Rollo, Inc.
Project : Presidio

Initial and Continuing Calibration Blanks
Form III

Analyte	Analysis Method	Date Analyzed	Units	Initial Calibration		Continuing Calibration #1		Continuing Calibration #2		Continuing Calibration #3		Method Blank units	Method Blank mg/L
				Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.
Alkalinity	310.1	06/01/06	mg/L									10	U
Chloride	300.0	06/06/06	mg/L	1.0	U	1.0	U	1.0	U			1.0	U
Chloride	300.0	06/08/06	mg/L	1.0	U	1.0	U	1.0	U			1.0	U
Fluoride	300.0	06/06/06	mg/L	1.0	U	1.0	U	1.0	U			1.0	U
Nitrate	353.2	06/09/06	mg/L	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Nitrite	354.1	05/26/06	mg/L	0.02	U							0.02	U
Solids, Tot. Diss.	160.1	05/31/06	mg/L									20	U
Sulfate	300.0	06/06/06	mg/L	1.0	U	1.0	U	1.0	U			1.0	U

Remarks

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Service Request: D0600543
Client : Treadwell and Rollo, Inc.
Project : Presidio

Initial and Continuing Calibration Blanks
Form III

Analyte	Analysis Method	Date Analyzed	Units		Continuing Calibration								
					#4		#5		#6		#7		
					Result	Qual.	Result	Qual.	Result	Qual.	Result	Qual.	
Alkalinity	310.1	06/01/06	units										
Chloride	300.0	06/06/06	mg/L										
Chloride	300.0	06/08/06	mg/L										
Fluoride	300.0	06/06/06	mg/L										
Nitrate	353.2	06/09/06	mg/L		0.02	U	0.02	U					
Nitrite	354.1	05/26/06	mg/L										
Solids, Tot. Diss.	160.1	05/31/06	mg/L										
Sulfate	300.0	06/06/06	mg/L										

Remarks

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Service Request: D0600543
Client : Treadwell and Rollo, Inc.
Project : Presidio

Laboratory Control Sample
Form VII

Lab No.	LCS			Client Sample ID:		LCS							
Analyte	Analysis Method	Date Analyzed	Units		LCS TV		LCS Result	%R	LCSD Result	% R	Control Limit	RPD	Control Limit
Alkalinity	310.1	06/01/06	mg/L		2,500		2,520	101	2,540	102	95-106	0.8	20
Chloride	300.0	06/06/06	mg/L		5.00		5.33	107	5.50	110	90-110	3.1	20
Chloride	300.0	06/08/06	mg/L		5.00		5.13	103	5.26	105	90-110	2.5	20
Fluoride	300.0	06/06/06	mg/L		2.50		2.63	105	2.71	108	90-110	3.0	20
Nitrate	353.2	06/09/06	mg/L		0.500		0.498	100	0.494	99	90-110	0.8	20
Nitrite	354.1	05/26/06	mg/L		0.150		0.148	99	0.152	101	93-110	2.7	20
Solids, Tot. Diss.	160.1	05/31/06	mg/L		575		508	88	497	86	92-106	2.2	20
Sulfate	300.0	06/06/06	mg/L		10.00		9.61	96	9.69	97	90-110	0.8	20

Remarks

Support Documentation

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: E310.1 Matrix: Water

Instrument ID: _____

Concentration Units (ug/L or mg/kg): MG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
Alkalinity	03/20/2006	10	10.0	12.0	12.5	10.5	12.0	12.0	11.0		0.93	3.0

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: E160.1 Matrix: Water

Instrument ID: _____

Concentration Units (ug/L or mg/kg): MG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
Total Dissolved Solids	05/31/2006	50	48	56	50	46	48	57	43	57	5.4	16

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: E300 Matrix: Water

Instrument ID: ICS2000

Concentration Units (ug/L or mg/kg): MG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
Sulfate	08/20/2005	0.20	0.376	0.375	0.372	0.374	0.374	0.372	0.370	0.372	0.0020	0.20
Chloride	08/20/2005	0.50	0.558	0.607	0.625	0.643	0.509	0.511	0.496	0.519	0.059	0.18
Fluoride	08/20/2005	0.13	0.093	0.095	0.094	0.119	0.092	0.114	0.113	0.114	0.012	0.035

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: E354.1 Matrix: Water

Instrument ID: _____

Concentration Units (ug/L or mg/kg): MG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
Nitrite-N	07/14/2005	0.010	0.0111	0.0114	0.0107	0.0111	0.0107	0.0114	0.0107		0.0003	0.0010

MDL FORM Method E354.1

RDD-060623:BM:BS-1049PST-SR:D0600543-D0600543-W

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: E353.2 Matrix: Water

Instrument ID: Lachat Auto-analyzer

Concentration Units (ug/L or mg/kg): MG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
Nitrate-N	06/24/2005	0.010	0.0149	0.0158	0.0141	0.0139	0.0154	0.0135	0.0142	0.0132	0.0009	0.0029

Alkalinity

Page: 1049

Analyst: am
Analysis Date: 6/1/06 @ 0900
N H_2SO_4: 0.02N

Method: EPA 310.1 / SM2320
Test Codes: ALK, ALKB, ALKC, ALKP, HCO3, CO3
Reporting Limit: 10 mg/L
Detection Limit : 2 mg/L

Sample Reference No.	mls spl.	pH	mls H2SO4 to pH 8.3			mls H2SO4 to pH 4.5			AlkC CO3	AlkB HCO3	Alk Total	Alk H	True Value	%RPD %R
			Initial	Final	Vol.	Initial	Final	Vol.	mg/L	mg/L	mg/L	~~units~~		
CS1 pH 4.00		4.00											4.00	[illegible]
CS2 pH 10.00		10.05											10.00	100.5%
ICVS pH 7.00		7.03											7.00	100.5%
MB	100	6.15				41.1	41.2	0.1			<2,410	mg/L		
LCS Na2CO3	5	10.57				6.6	19.2	12.6			2520	mg/L	2500	100.8%
LCS dup	5	10.57				19.2	31.9	12.7			2540		2500	101.6%
D0337-1	50	7.99				3.4	8.9	5.5	<2,420	110	110	<2,410		
-2	100	7.49				8.9	16.5	7.6	<2,410	76	76	<2,410		
-3	100	8.04				16.5	30.1	13.6		136	136			
-4	50	7.66				30.1/4.5	50.0/17.1	32.5		650	650			
D0543-1	50	8.08				17.1	37.3	20.2		404	404			
-2	25	7.15				1.0	21.5	20.5		820	820			
-3	50	7.47				21.5	43.3	21.8		436	436			
-4	50	8.01				6.6	32.2	25.6		512	512			
-4MS	50	9.28				4.2	42.2	38.0		760	760		250	99.2%
-4MSD	50	9.25				3.5	41.5	38.0		760	760		250	99.2%
CCV pH 7.00		6.95											7.00	99.3%
CCV pH 7.00													7.00	

Report Bicarb only → D0337-1

Report All → D0543-1

% RPD 0.8% → LCS dup

0% → -4MS / -4MSD

Form Alk-Mstr.WK1 Spike (ID, Conc. Vol.): 639256, 2500mg/L, 50mL Updated 03/03

Title: Anions_Program
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060606\ANIONS 06060 Created: 8/18/2005 5:57:57 PM by RDDACQUWC6
Timebase: ICS-2000 Changed: 9/22/2005 11:59:56 AM by RDDACQUWC6

```
;Anions Program / EPA 300.0, 300.1 / Bob Coleman 8-18-2005

        Pressure.LowerLimit =          200
        Pressure.UpperLimit =          3000
        %A.Equate =                    "Water"
        CR_TC =                        On
        LoadPosition
        Data_Collection_Rate =         5.0
        CellTemperature =              30.0
        ColumnTemperature =            30.0
        Suppressor_Type =              ASRS_4mm
        ; Hydroxide =                  30.0
        ; Recommended Current =        75
        Suppressor_Current =           75
        Concentration =                30.00
        Curve =                        5
        Flow =                         1.00

-2.500  Pump_ECD_Relay_1.Closed        Duration=6

 0.000  Pump_ECD.Autozero
        ECD_1.AcqOn
        Pump_InjectValve.InjectPosition          Duration=600
 5.000  Log                            Pump_ECD_Relay_1.State
        Pump_ECD_Relay_1.Open          ;make sure relay is open
12.000  ECD_1.AcqOff
        End
```

Title: Anions_Program
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060606\ANIONS 060606.SEQ
Timebase: ICS-2000
Created: 8/18/2005 5:57:57 PM by RDDACQUWC6
Changed: 9/22/2005 11:59:56 AM by RDDACQUWC6

No. Channel Operation Parameters

Title: End of Run
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060606\ANIONS 06(Created: 6/21/2005 11:20:54 AM by reddingadmin
Timebase: ICS-2000 Changed: 7/7/2005 3:33:24 PM by reddingadmin

```
;End program for shutting down the ICS-2000 pumps / BLC, 6-22-2005

        Pressure.LowerLimit =          200
        Pressure.UpperLimit =          3000
        %A.Equate =                    "Water"
        CR_TC =                        On
        LoadPosition
        Data_Collection_Rate =         5.0
        CellTemperature =              30.0
        ColumnTemperature =            30.0
        Suppressor_Type =              ASRS_4mm
        ; Carbonate =                  0.0
        ; Bicarbonate =                0.0
        ; Hydroxide =                  65.0
        ; Tetraborate =                0.0
        ; Other eluent =               0.0
        ; Recommended Current =        193
        Suppressor_Current =           200
        ECD_Total.Step =               0.50
        ECD_Total.Average =            Off
        Channel_Pressure.Step =        0.50
        Channel_Pressure.Average =     Off
        Concentration =                65.00
        Curve =                        5
        Flow =                         1.20

-0.100  Pump_ECD_Relay_1.Closed        Duration=1

 0.000  Pump_ECD.Autozero
        ECD_1.AcqOn
        ECD_Total.AcqOn
        Channel_Pressure.AcqOn
        Pump_InjectValve.InjectPosition          Duration=0.1
        Pump_ECD_Relay_1.Open          ;make sure relay is open
0.1000  ECD_1.AcqOff
        ECD_Total.AcqOff
        Channel_Pressure.AcqOff
        Suppressor_Current =           0
        Off
        End
```

Title: End of Run
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060606\ANIONS 060606.SEQ
Timebase: ICS-2000

Created: 6/21/2005 11:20:54 AM by reddingadmin
Changed: 7/7/2005 3:33:24 PM by reddingadmin

No. Channel Operation Parameters

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060606\ANIONS 060606.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Minimum Area	0.025 "[Signal]*min"	All Channels
2	0.000	Inhibit Integration	On	All Channels
3	1.000	Void Volume Treatment	On	All Channels
4	2.800	Inhibit Integration	On	All Channels
5	2.800	Void Volume Treatment	Off	All Channels
6	3.000	Inhibit Integration	Off	All Channels
7	3.000	Inhibit Integration	Off	All Channels

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060606\ANIONS 060606.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

Peak Table:

Use Recently Detected Ret. Times: Average of last 4 standards
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Resp.Fact.	Comment
1	Fluoride	3.147 min	5.000 RG	External	Area	0LOff	B-M-B		1.000000	Autogenerated
2	*Chloride*	*4.600 min*	*5.000 RG*	*External*	*Area*	*0LOff*	*B-M-B*		*1.000000*	*Autogenerated*
3	Sulfate	7.083 min	5.000 RG	External	Area	0LOff	B-M-B		1.000000	Autogenerated
4	Bromide	7.953 min	5.000 RG	External	Area	0LOff	B-M-B		1.000000	Autogenerated
5	Nitrate	9.517 min	5.000 RG	External	Area	0LOff	B-M-B		1.000000	Autogenerated

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060606\ANIONS 060606.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

Peak Table:

Use Recently Detected Ret. Times: Average of last 4 standards
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Amount CS1	Amount CS2	Amount CS3	Amount CS4	Amount CS5	Amount CS6	Amount CS7	Amount CS8	Amount CS9
1	Fluoride	3.147 min	0.000000	0.200000	1.000000	2.000000	6.000000	10.000000			
2	*Chloride*	*4.600 min*	*0.000000*	*0.400000*	*2.000000*	*4.000000*	*12.000000*	*20.000000*	*40.000000*		
3	Sulfate	7.083 min	0.000000	0.800000	4.000000	8.000000	24.000000	40.000000	80.000000		
4	Bromide	7.953 min	0.000000	0.500000	2.500000	5.000000	15.000000	25.000000	50.000000		
5	Nitrate	9.517 min	0.000000	0.100000	0.500000	1.000000	3.000000	5.000000	10.000000		

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060606\ANIONS 060606.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

Amount Table:

Dimension of Amounts: mg/L
Reference Volume for Amounts: Use inject volume of first standard

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Left Limit	Right Limit	Group
1	Fluoride	3.147 min	5.000 RG	External	Area	0LOff	B-M-B	0.000	0.000	
2	*Chloride*	*4.600 min*	*5.000 RG*	*External*	*Area*	*0LOff*	*B-M-B*	*0.000*	*0.000*	
3	Sulfate	7.083 min	5.000 RG	External	Area	0LOff	B-M-B	0.000	0.000	
4	Bromide	7.953 min	5.000 RG	External	Area	0LOff	B-M-B	0.000	0.000	
5	Nitrate	9.517 min	5.000 RG	External	Area	0LOff	B-M-B	0.000	0.000	

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060606\ANIONS 060606.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC8
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

Amount Table:

Dimension of Amounts: mg/L
Reference Volume for Amounts: Use inject volume of first standard

No.	Peak Name	Ret.Time	Resp.Fact.	Comment
1	Fluoride	3.147 min	1.000000	Autogenerated
2	*Chloride*	*4.600 min*	*1.000000*	*Autogenerated*
3	Sulfate	7.083 min	1.000000	Autogenerated
4	Bromide	7.953 min	1.000000	Autogenerated
5	Nitrate	9.517 min	1.000000	Autogenerated

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060606\ANIONS 060606.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time	Sample Comment
1		[illegible]	2	2	25.0	1.0000	1.0000	1.0000	6/6/2006 2:06:15 PM	
2		[illegible]	3	3	25.0	1.0000	1.0000	1.0000	6/6/2006 2:20:54 PM	
3		[illegible]	4	4	25.0	1.0000	1.0000	1.0000	6/6/2006 2:35:28 PM	
4		[illegible]	5	5	25.0	1.0000	1.0000	1.0000	6/6/2006 2:50:04 PM	
5		[illegible]	6	6	25.0	1.0000	1.0000	1.0000	6/6/2006 3:04:41 PM	
6		[illegible]	7	7	25.0	1.0000	1.0000	1.0000	6/6/2006 3:19:17 PM	
7		[illegible]	8	8	25.0	1.0000	1.0000	1.0000	6/6/2006 3:33:54 PM	

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060606\ANIONS 060606.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Calib. Comment
1		[illegible]	Couldn't find the peak in the chromatogram
2		[illegible]	[illegible]
3		[illegible]	[illegible]
4		[illegible]	[illegible]
5		[illegible]	[illegible]
6		[illegible]	[illegible]
7		[illegible]	[illegible]

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060606\ANIONS 060606.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

System Suitability Test:

No.	Name	Sample Condition	Test Condition	Aggregate	Operator	Value	Channel	Peak	N.A.
1									

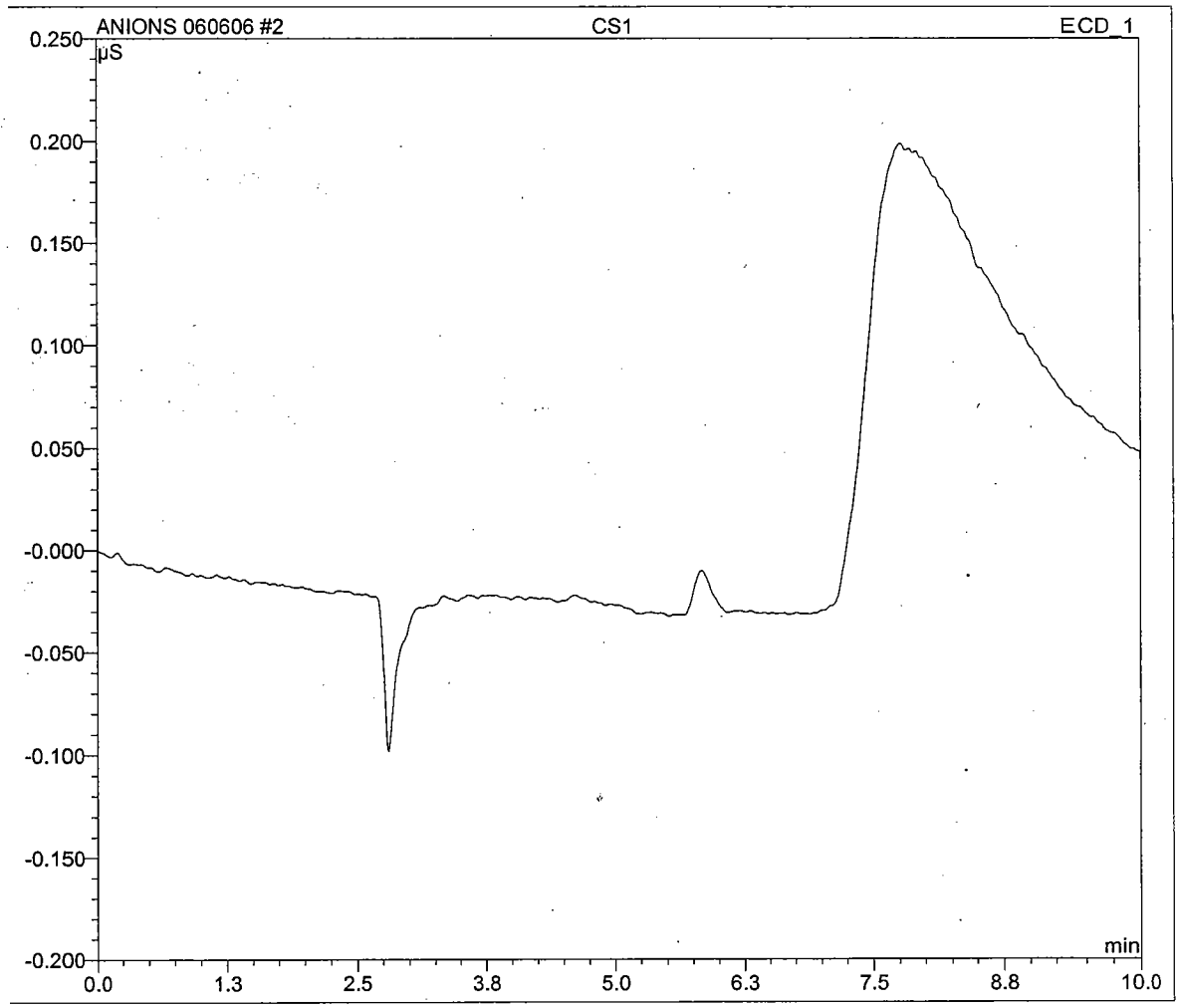
Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060606\ANIONS 060606.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

System Suitability Test:

No.	Name	Fail-Action	Result	SST Message
1				

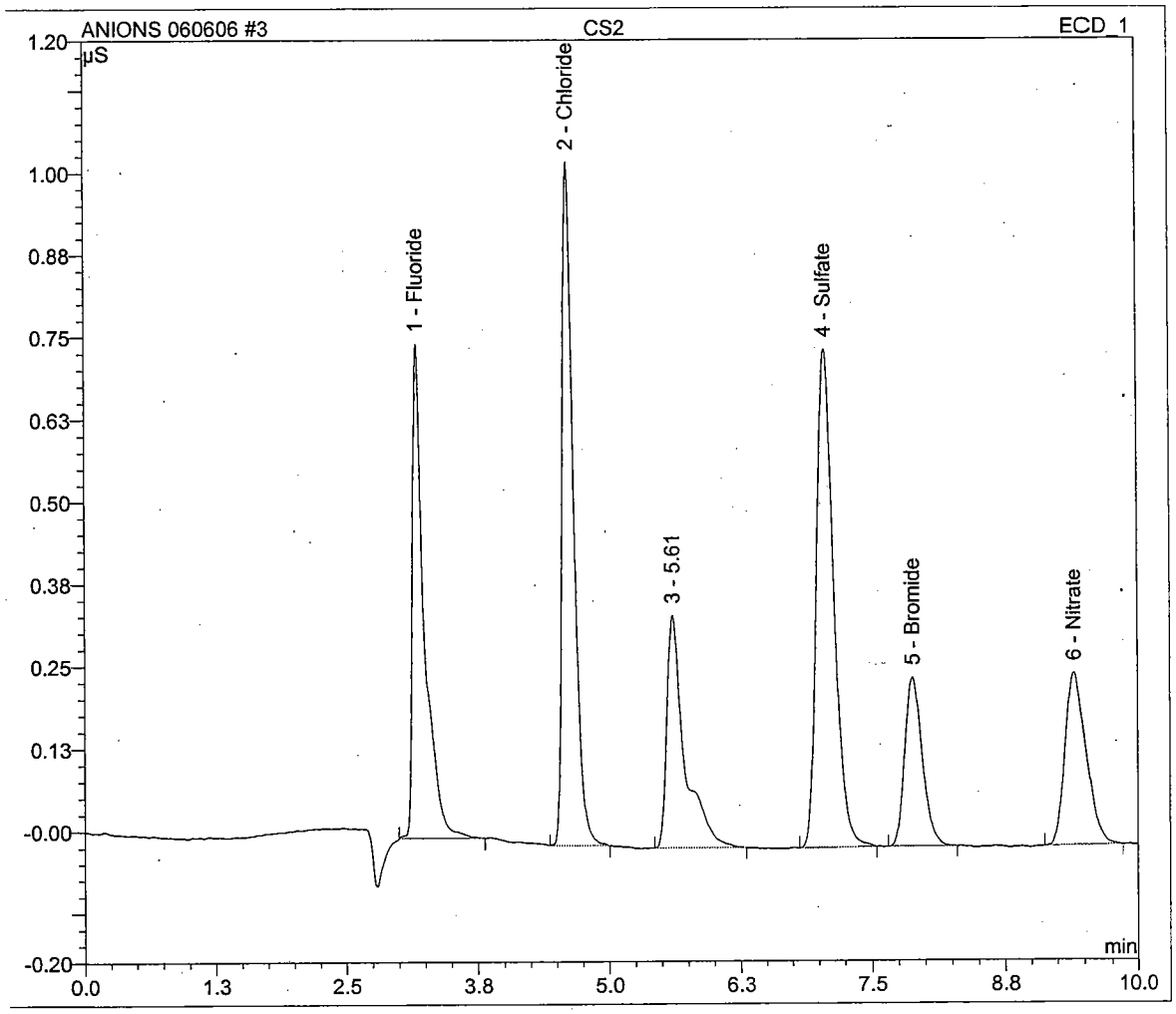
Sample Name:	**CS1**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06.06.06 14:06**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
			TOTAL:	0.00	0.00	0.00



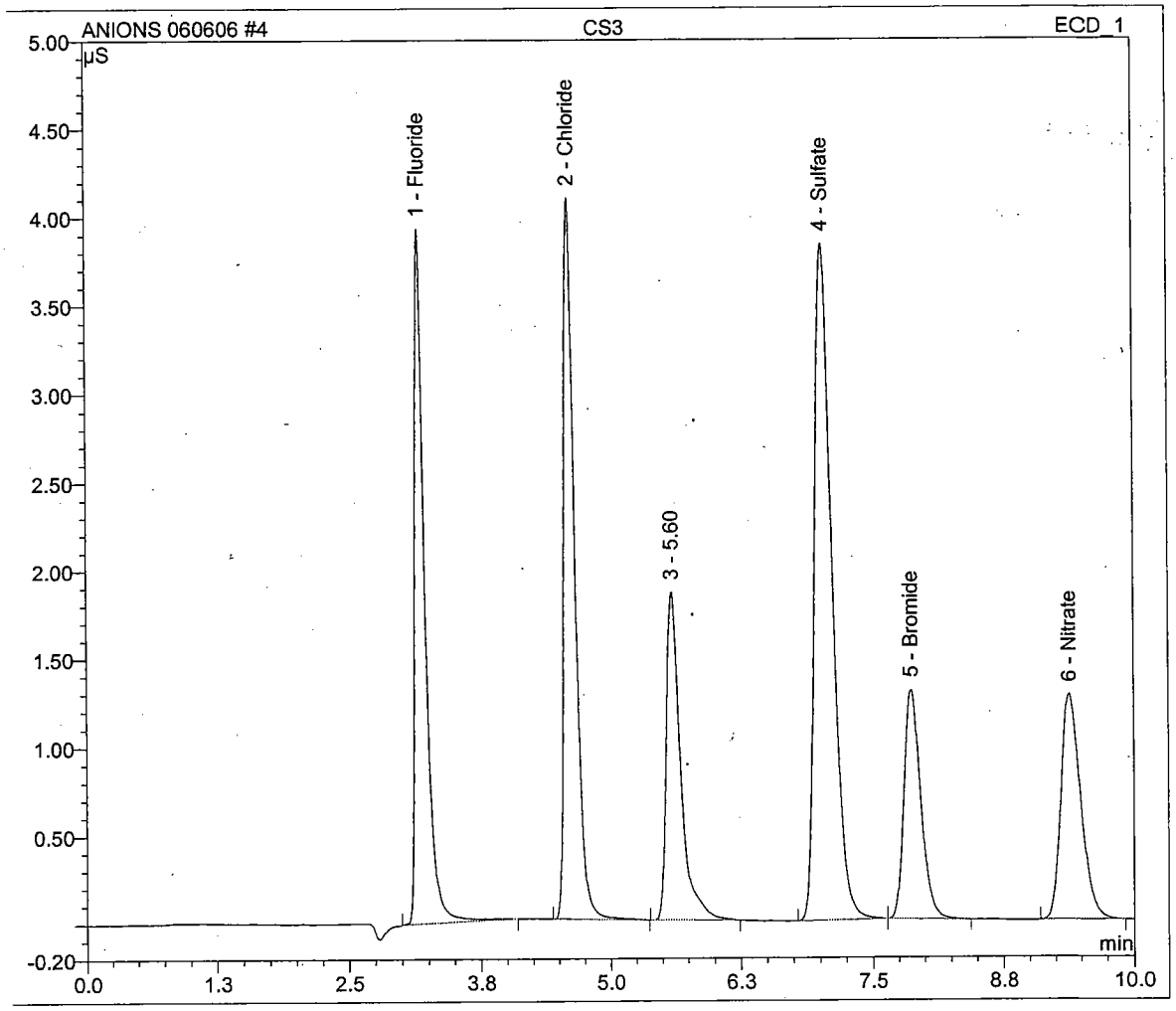
Sample Name:	**CS2**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06.06.06 14:20**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.18	Fluoride	BMB	0.098	0.749	0.2206
2	4.61	Chloride	BMB	0.129	1.039	0.4505
4	7.06	Sulfate	BMB	0.144	0.756	0.7546
5	7.89	Bromide	BMB	0.049	0.256	0.6216
6	9.42	Nitrate	BMB	0.059	0.261	0.1236
		TOTAL:		0.48	3.06	2.17



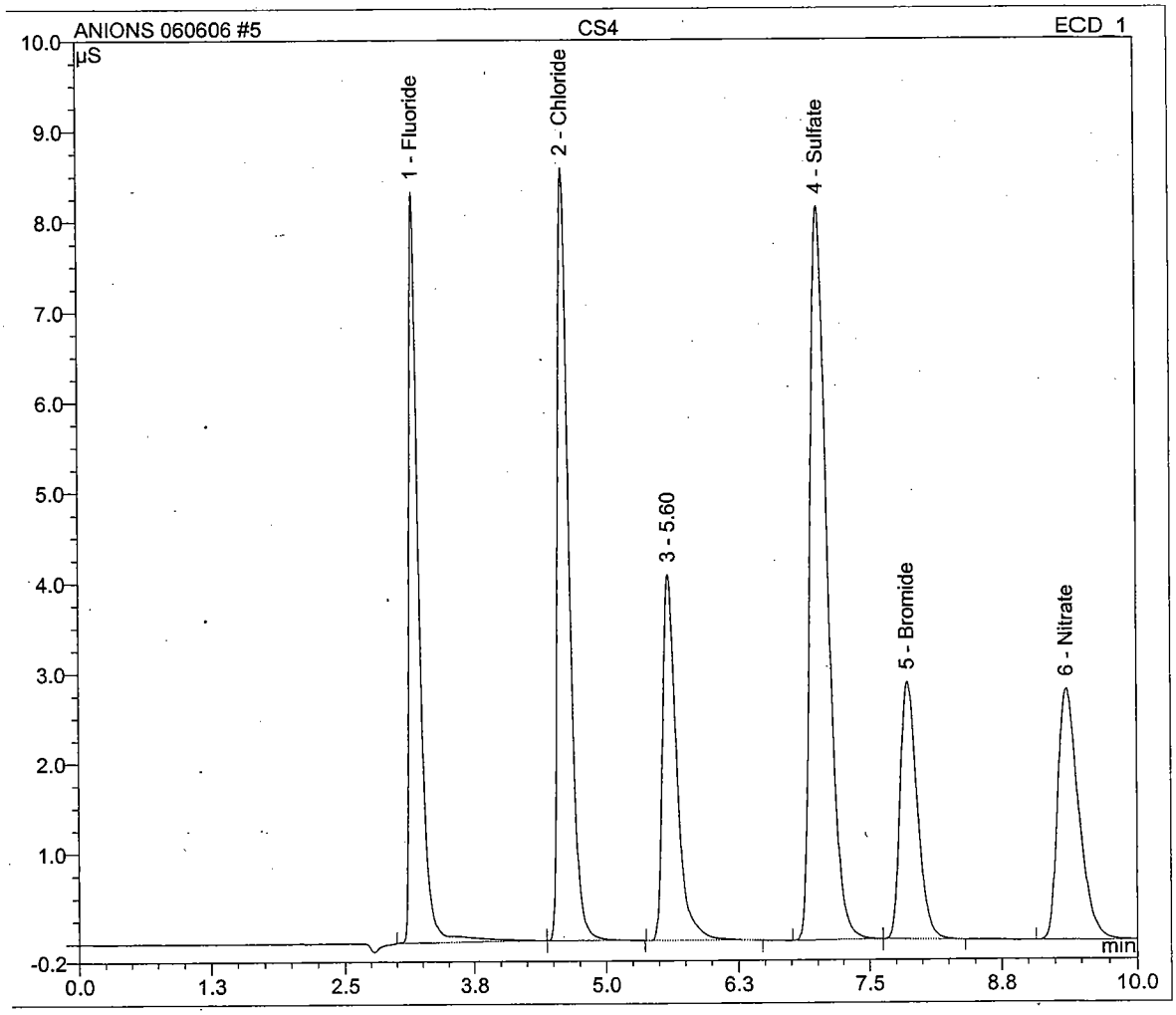
Sample Name:	**CS3**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06.06.06 14:35**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.18	Fluoride	BMB	0.433	3.934	0.9551
2	4.61	Chloride	BMB	0.509	4.081	1.8001
4	7.04	Sulfate	BMb	0.725	3.831	3.5647
5	7.88	Bromide	bMB	0.242	1.294	2.2374
6	9.39	Nitrate	BMB	0.285	1.274	0.4436
		TOTAL:		2.19	14.41	9.00



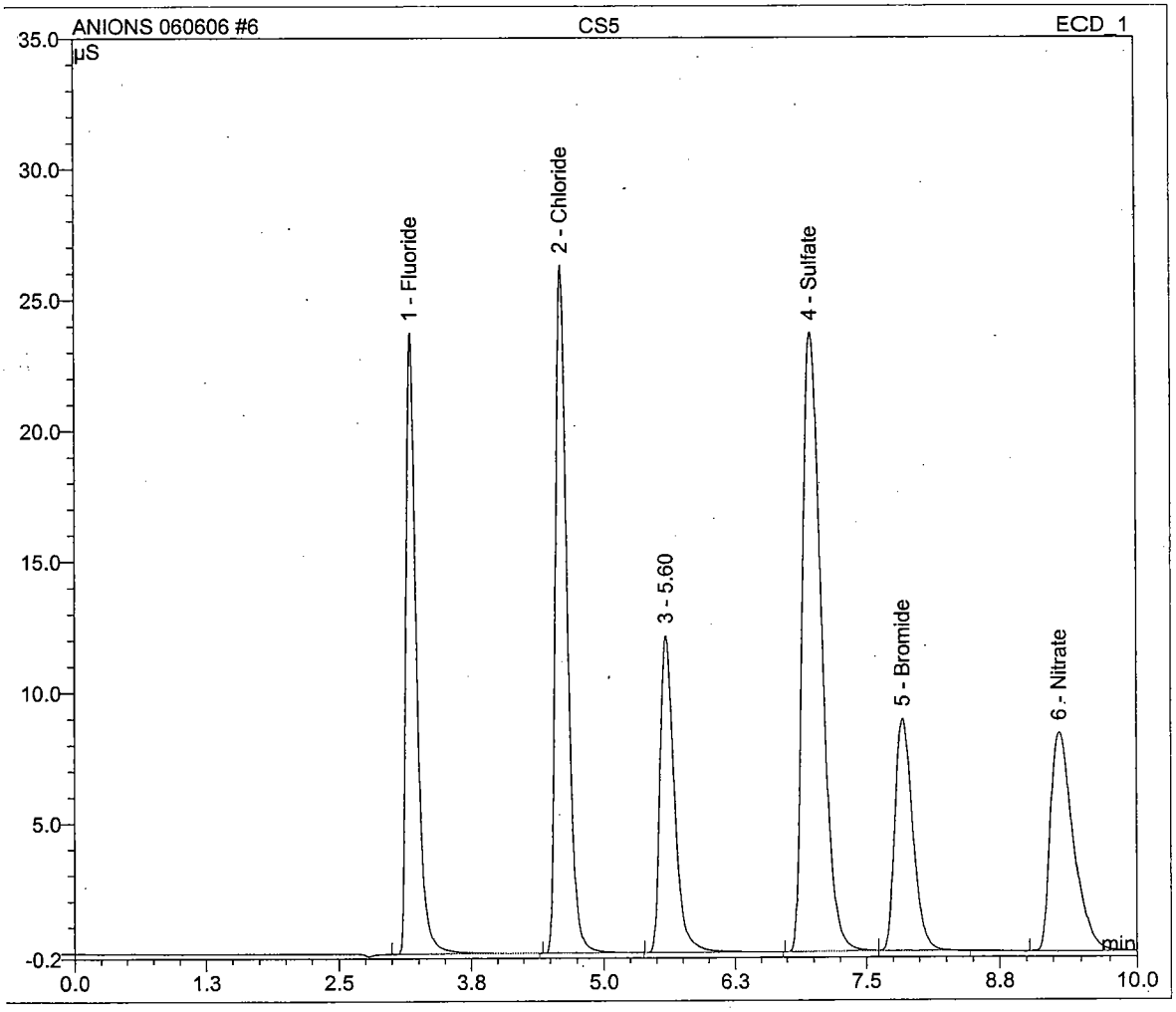
Sample Name:	**CS4**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06.06.06 14:50**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.18	Fluoride	BMb	0.929	8.316	2.0451
2	4.61	Chloride	bMB	1.069	8.559	3.7945
4	7.03	Sulfate	BMb	1.572	8.131	7.6574
5	7.87	Bromide	bMB	0.534	2.854	4.6777
6	9.37	Nitrate	BMB	0.632	2.785	0.9349
		TOTAL:		4.74	30.65	19.11



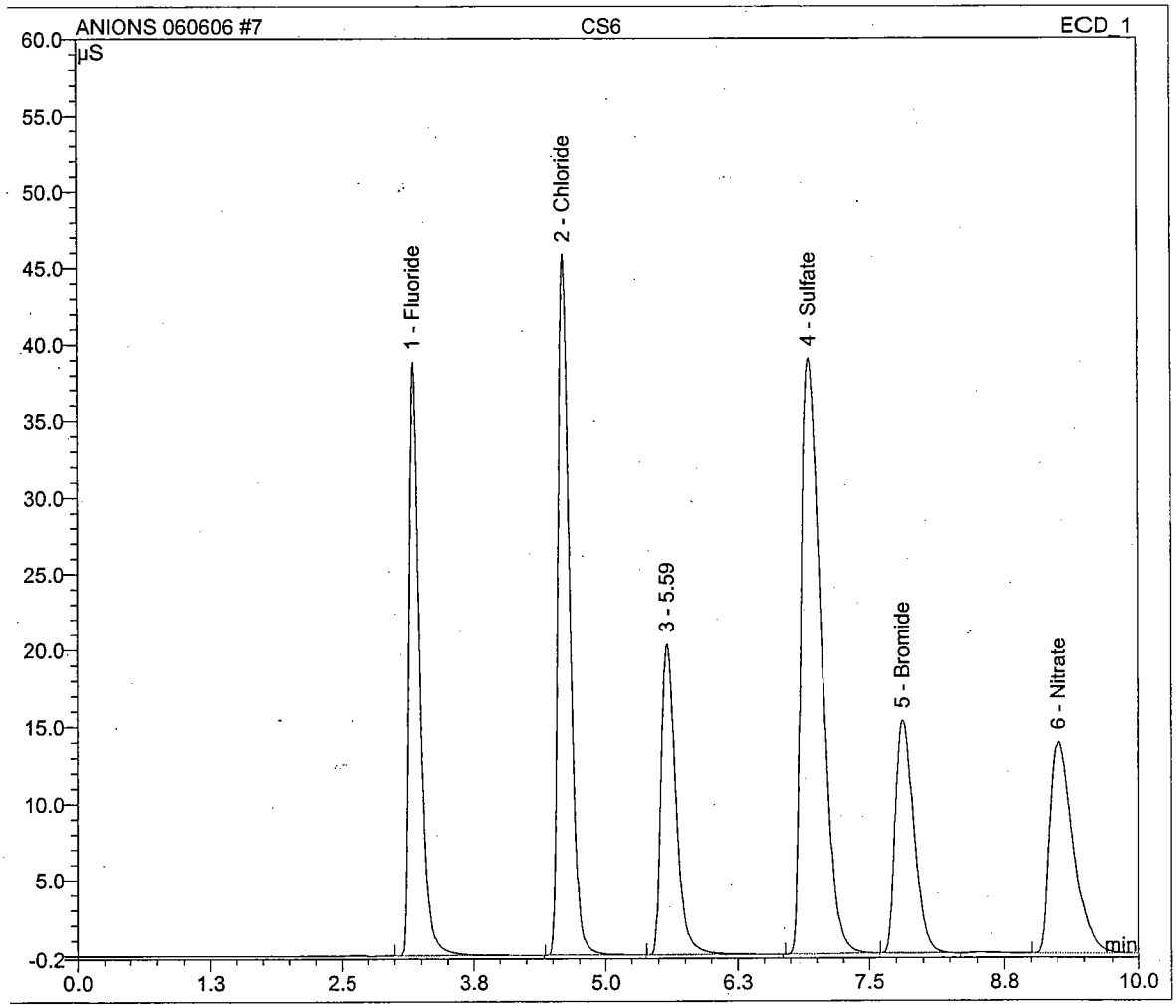
Sample Name:	**CS5**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06.06.06 15:04**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.18	Fluoride	BMB	2.707	23.741	5.9459
2	4.61	Chloride	BMB	3.337	26.301	11.8709
4	6.98	Sulfate	BMb	4.909	23.698	23.7901
5	7.84	Bromide	bMB	1.729	8.897	14.6563
6	9.32	Nitrate	BMB	2.049	8.381	2.9395
		TOTAL:		14.73	91.02	59.20



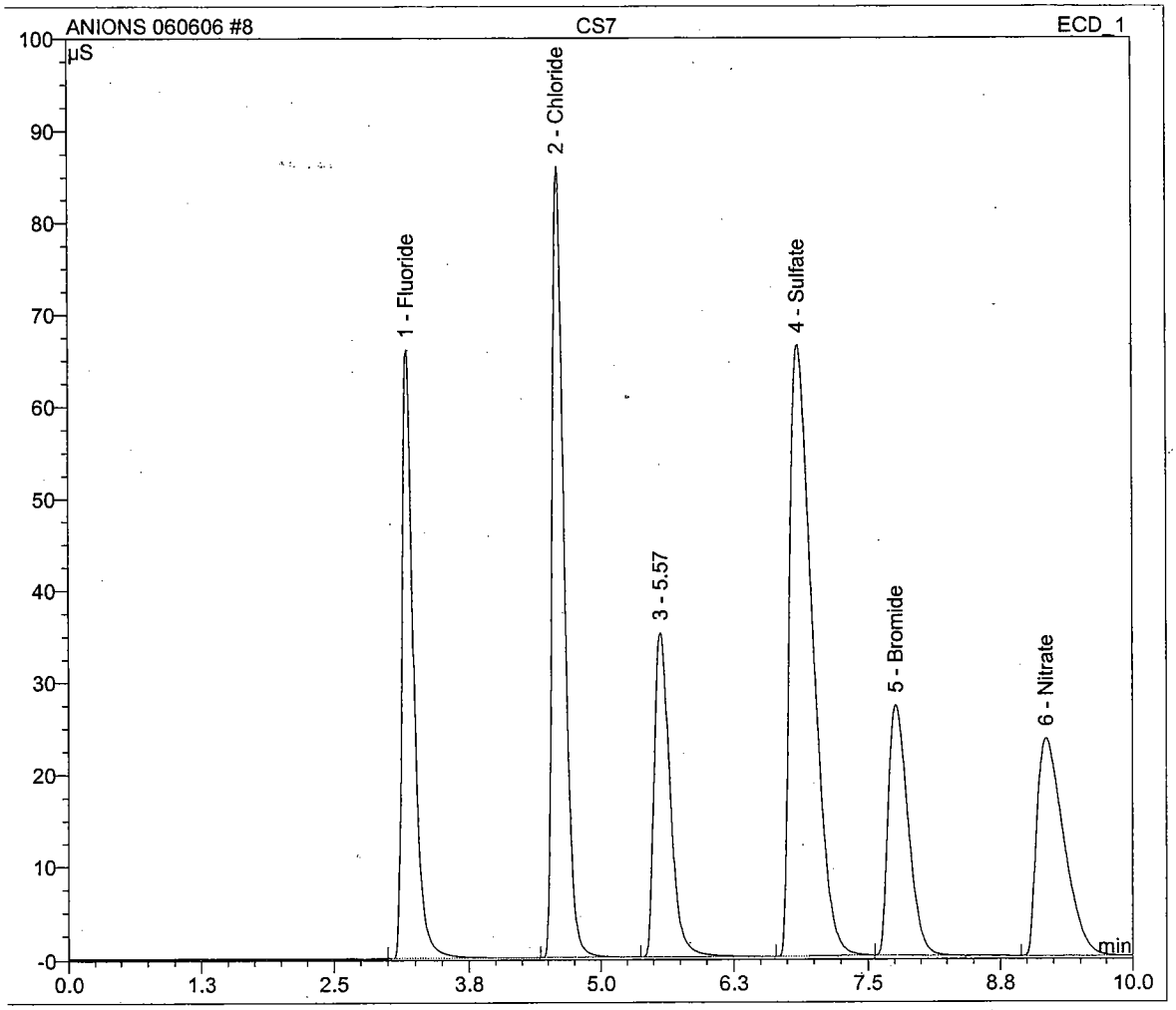
Sample Name:	**CS6**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06.06.06 15:19**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.18	Fluoride	BMB	4.568	38.827	10.0275
2	4.61	Chloride	BMB	5.859	45.837	20.8517
4	6.93	Sulfate	BMB	8.616	39.012	41.7135
5	7.82	Bromide	BMB	3.073	15.223	25.8892
6	9.27	Nitrate	BMB	3.634	13.857	5.1809
		TOTAL:		25.75	152.76	103.66



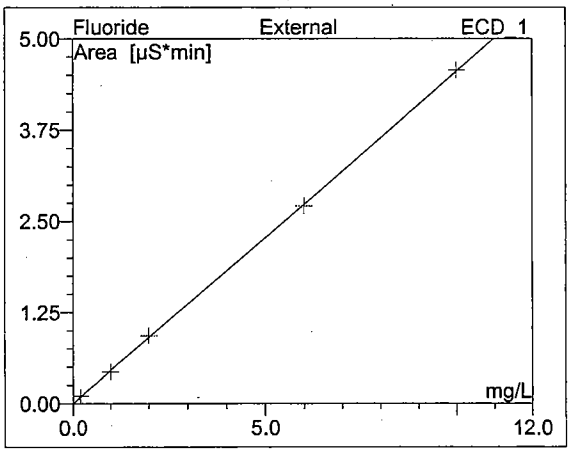
Sample Name:	**CS7**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06.06.06 15:33**	*Run Time:*	**12.00**

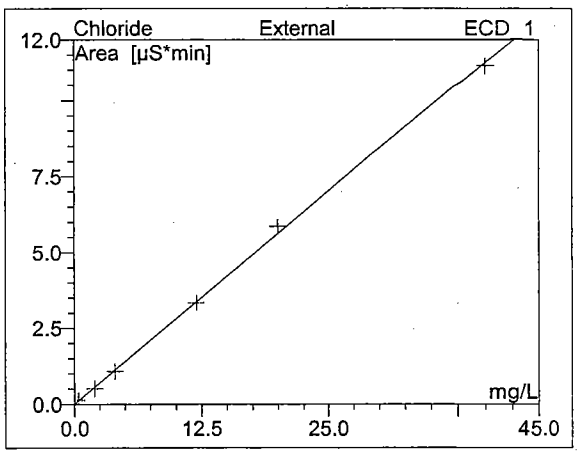
No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.18	Fluoride	BMB	8.145	66.113	17.8769
2	4.60	Chloride	BMB	11.136	86.085	39.6429
4	6.86	Sulfate	BMB	16.382	66.475	79.2627
5	7.77	Bromide	BMB	5.924	27.220	49.7027
6	9.19	Nitrate	BMB	6.996	23.654	9.9368
			TOTAL:	48.58	269.55	196.42

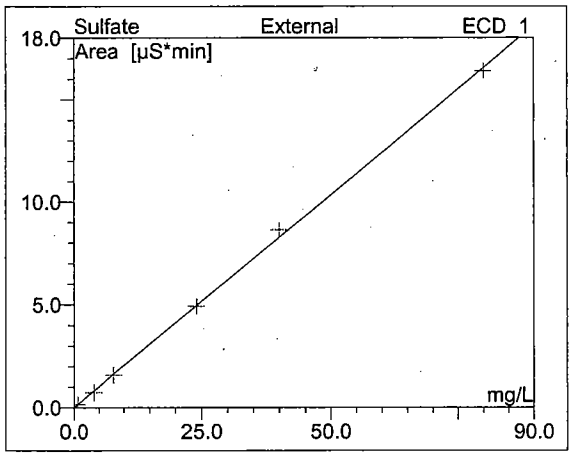


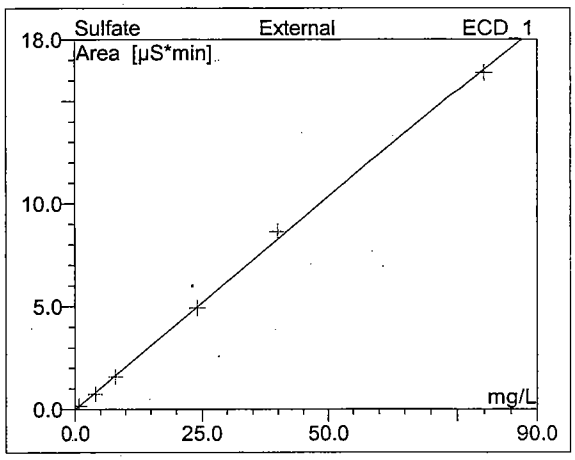
Calibration Batch Report

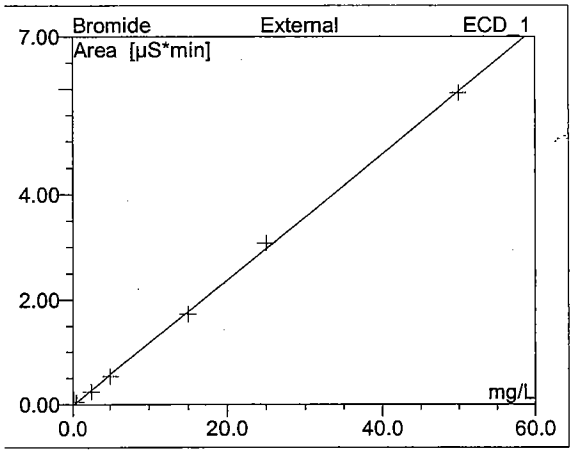
Sequence:	**ANIONS 060606**	Inj. Vol.:	**25.0**
Program:	**Anions_Program**	Operator:	**RDD-ACQU-WC-8**
Inj. Date/Time:	**06/06/06 15:33**	Run Time:	**12.00**

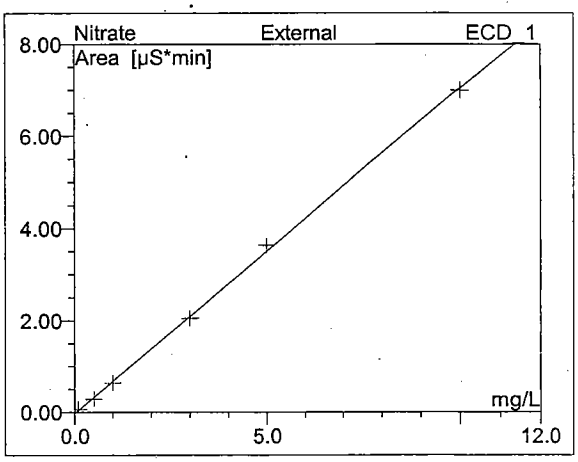












Sequence:	**ANIONS 060606**	*Inj. Vol.:*	**25.0**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06/06/06 15:33**	*Run Time:*	**12.00**

No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	2.96	Fluoride	0LOff	5	0.005	0.465	0.000	99.999
2	4.01	Chloride	0LOff	8	-0.061	0.290	0.000	99.991
3	4.72	Nitrite	0LOff	7	0.008	0.665	0.000	99.992
4	5.48	Sulfate	0LOff	8	-0.082	0.218	0.000	99.995
5	6.43	Bromide	0LOff	7	-0.026	0.125	0.000	99.954
6	7.35	Nitrate	0LOff	6	-0.041	0.713	0.000	99.978
AVERAGE:					-0.0329	0.4126	0.0000	99.9846

No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	3.183333333	Fluoride	0LOff	5	-0.002646	0.455766	0	99.99395069
2	4.6	Chloride	0LOff	6	0.002978	0.280844	0	99.95814934
4	6.863333333	Sulfate	0LOff	6	-0.011792	0.206823	0	99.95803005
5	7.77	Bromide	0LOff	6	-0.025768	0.119697	0	99.96728884
6	9.186666667	Nitrate	0LOff	6	-0.028796	0.706956	0	99.96657767

0.0
-5.00

Title: Anions_Program
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060806\ANIONS 06080 Created: 8/18/2005 5:57:57 PM by RDDACQUWC6
Timebase: ICS-2000 Changed: 9/22/2005 11:59:56 AM by RDDACQUWC6

```
;Anions Program / EPA 300.0, 300.1 / Bob Coleman 8-18-2005

        Pressure.LowerLimit =          200
        Pressure.UpperLimit =          3000
        %A.Equate =                    "Water"
        CR_TC =                        On
        LoadPosition
        Data_Collection_Rate =         5.0
        CellTemperature =              30.0
        ColumnTemperature =            30.0
        Suppressor_Type =              ASRS_4mm
        ; Hydroxide =                  30.0
        ; Recommended Current =        75
        Suppressor_Current =           75
        Concentration =                30.00
        Curve =                        5
        Flow =                         1.00

-2.500  Pump_ECD_Relay_1.Closed        Duration=6

 0.000  Pump_ECD.Autozero
        ECD_1.AcqOn
        Pump_InjectValve.InjectPosition          Duration=600
 5.000  Log                            Pump_ECD_Relay_1.State
        Pump_ECD_Relay_1.Open          ;make sure relay is open
12.000  ECD_1.AcqOff
        End
```

Title: Anions_Program
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060806\ANIONS 060806A.SEQ
Timebase: ICS-2000
Created: 8/18/2005 5:57:57 PM by RDDACQUWC6
Changed: 9/22/2005 11:59:56 AM by RDDACQUWC6

No. Channel Operation Parameters

Title: End of Run
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060806\ANIONS 06(Created: 6/21/2005 11:20:54 AM by reddingadmin
Timebase: ICS-2000 Changed: 7/7/2005 3:33:24 PM by reddingadmin

```
;End program for shutting down the ICS-2000 pumps / BLC, 6-22-2005

        Pressure.LowerLimit =          200
        Pressure.UpperLimit =          3000
        %A.Equate =                    "Water"
        CR_TC =                        On
        LoadPosition
        Data_Collection_Rate =         5.0
        CellTemperature =              30.0
        ColumnTemperature =            30.0
        Suppressor_Type =              ASRS_4mm
        ; Carbonate =                  0.0
        ; Bicarbonate =                0.0
        ; Hydroxide =                  65.0
        ; Tetraborate =                0.0
        ; Other eluent =               0.0
        ; Recommended Current =        193
        Suppressor_Current =           200
        ECD_Total.Step =               0.50
        ECD_Total.Average =            Off
        Channel_Pressure.Step =        0.50
        Channel_Pressure.Average =     Off
        Concentration =                65.00
        Curve =                        5
        Flow =                         1.20

-0.100  Pump_ECD_Relay_1.Closed        Duration=1

 0.000  Pump_ECD.Autozero
        ECD_1.AcqOn
        ECD_Total.AcqOn
        Channel_Pressure.AcqOn
        Pump_InjectValve.InjectPosition          Duration=0.1
        Pump_ECD_Relay_1.Open          ;make sure relay is open
 0.1000 ECD_1.AcqOff
        ECD_Total.AcqOff
        Channel_Pressure.AcqOff
        Suppressor_Current =           0
        Off
        End
```

Title: End of Run
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060806\ANIONS 060806A.SEQ
Timebase: ICS-2000

Created: 6/21/2005 11:20:54 AM by reddingadmin
Changed: 7/7/2005 3:33:24 PM by reddingadmin

No. Channel Operation Parameters

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060806\ANIONS 060806A.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Minimum Area	0.025 "[Signal]*min"	All Channels
2	0.000	Inhibit Integration	On	All Channels
3	1.000	Void Volume Treatment	On	All Channels
4	2.800	Inhibit Integration	On	All Channels
5	2.800	Void Volume Treatment	Off	All Channels
6	3.000	Inhibit Integration	Off	All Channels
7	3.000	Inhibit Integration	Off	All Channels

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060806\ANIONS 060806A.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

Peak Table:

Use Recently Detected Ret. Times: Average of last 4 standards
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Resp.Fact.	Comment
1	Fluoride	3.147 min	5.000 RG	External	Area	0LOff	B-M-B		1.000000	Autogenerated
2	Chloride	4.600 min	5.000 RG	External	Area	0LOff	B-M-B		1.000000	Autogenerated
3	Sulfate	7.083 min	5.000 RG	External	Area	0LOff	B-M-B		1.000000	Autogenerated
4	Bromide	7.953 min	5.000 RG	External	Area	0LOff	B-M-B		1.000000	Autogenerated
5	Nitrate	9.517 min	5.000 RG	External	Area	0LOff	B-M-B		1.000000	Autogenerated

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060806\ANIONS 060806A.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

Peak Table:

Use Recently Detected Ret. Times: Average of last 4 standards
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Amount CS1	Amount CS2	Amount CS3	Amount CS4	Amount CS5	Amount CS6	Amount CS7	Amount CS8	Amount CS9
1	Fluoride	3.147 min	0.000000	0.200000	1.000000	2.000000	6.000000	10.000000			
2	Chloride	4.600 min	0.000000	0.400000	2.000000	4.000000	12.000000	20.000000	40.000000		
3	Sulfate	7.083 min	0.000000	0.800000	4.000000	8.000000	24.000000	40.000000	80.000000		
4	Bromide	7.953 min	0.000000	0.500000	2.500000	5.000000	15.000000	25.000000	50.000000		
5	Nitrate	9.517 min	0.000000	0.100000	0.500000	1.000000	3.000000	5.000000	10.000000		

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060806\ANIONS 060806A.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

Amount Table:

Dimension of Amounts: mg/L
Reference Volume for Amounts: Use inject volume of first standard

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Left Limit	Right Limit	Group
1	Fluoride	3.147 min	5.000 RG	External	Area	0LOff	B-M-B	0.000	0.000	
2	Chloride	4.600 min	5.000 RG	External	Area	0LOff	B-M-B	0.000	0.000	
3	Sulfate	7.083 min	5.000 RG	External	Area	0LOff	B-M-B	0.000	0.000	
4	Bromide	7.953 min	5.000 RG	External	Area	0LOff	B-M-B	0.000	0.000	
5	Nitrate	9.517 min	5.000 RG	External	Area	0LOff	B-M-B	0.000	0.000	

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060806\ANIONS 060806A.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

Amount Table:

Dimension of Amounts: mg/L
Reference Volume for Amounts: Use inject volume of first standard

No.	Peak Name	Ret.Time	Resp.Fact.	Comment
1	Fluoride	3.147 min	1.000000	Autogenerated
2	Chloride	4.600 min	1.000000	Autogenerated
3	Sulfate	7.083 min	1.000000	Autogenerated
4	Bromide	7.953 min	1.000000	Autogenerated
5	Nitrate	9.517 min	1.000000	Autogenerated

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060806\ANIONS 060806A.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time	Sample Comment
1	☒	CS1	2	3	25.0	1.0000	1.0000	1.0000	6/8/2006 12:29:15 PM	
2	☒	CS2	3	3	25.0	1.0000	1.0000	1.0000	6/8/2006 12:43:51 PM	
3	☒	CS3	4	5	25.0	1.0000	1.0000	1.0000	6/8/2006 12:58:27 PM	
4	☒	CS4	5	5	25.0	1.0000	1.0000	1.0000	6/8/2006 1:13:03 PM	
5	☒	CS5	6	7	25.0	1.0000	1.0000	1.0000	6/8/2006 1:27:39 PM	
6	☒	CS6	7	6	25.0	1.0000	1.0000	1.0000	6/8/2006 1:42:16 PM	
7	☒	CS7	8	8	25.0	1.0000	1.0000	1.0000	6/8/2006 1:56:52 PM	

Chromeleon © Dionex Corporation, Version 6.50 SP2 Build 968

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060806\ANIONS 060806A.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC5

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Calib. Comment
1	☒	CS1	Couldn't find the peak in the chromatogram.
2	☒	CS2	Ok
3	☒	CS3	Ok
4	☒	CS4	Ok
5	☒	CS5	Ok
6	☒	CS6	Ok
7	☒	CS7	The amount column does not contain a valid value for this peak.

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060806\ANIONS 060806A.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

System Suitability Test:

No.	Name	Sample Condition	Test Condition	Aggregate	Operator	Value	Channel	Peak	N.A.
1									

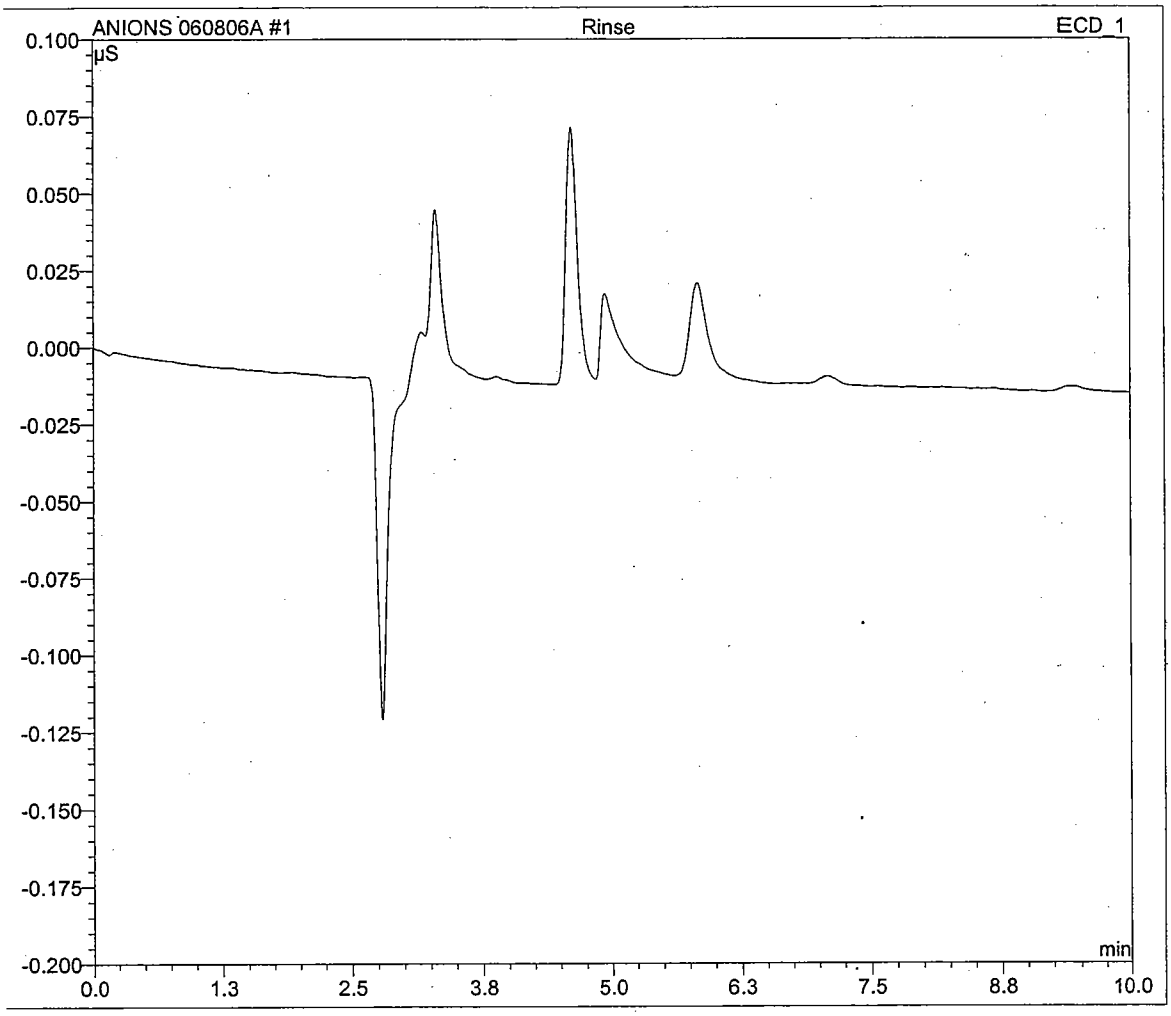
Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060806\ANIONS 060806A.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

System Suitability Test:

No.	Name	Fail-Action	Result	SST Message
1				

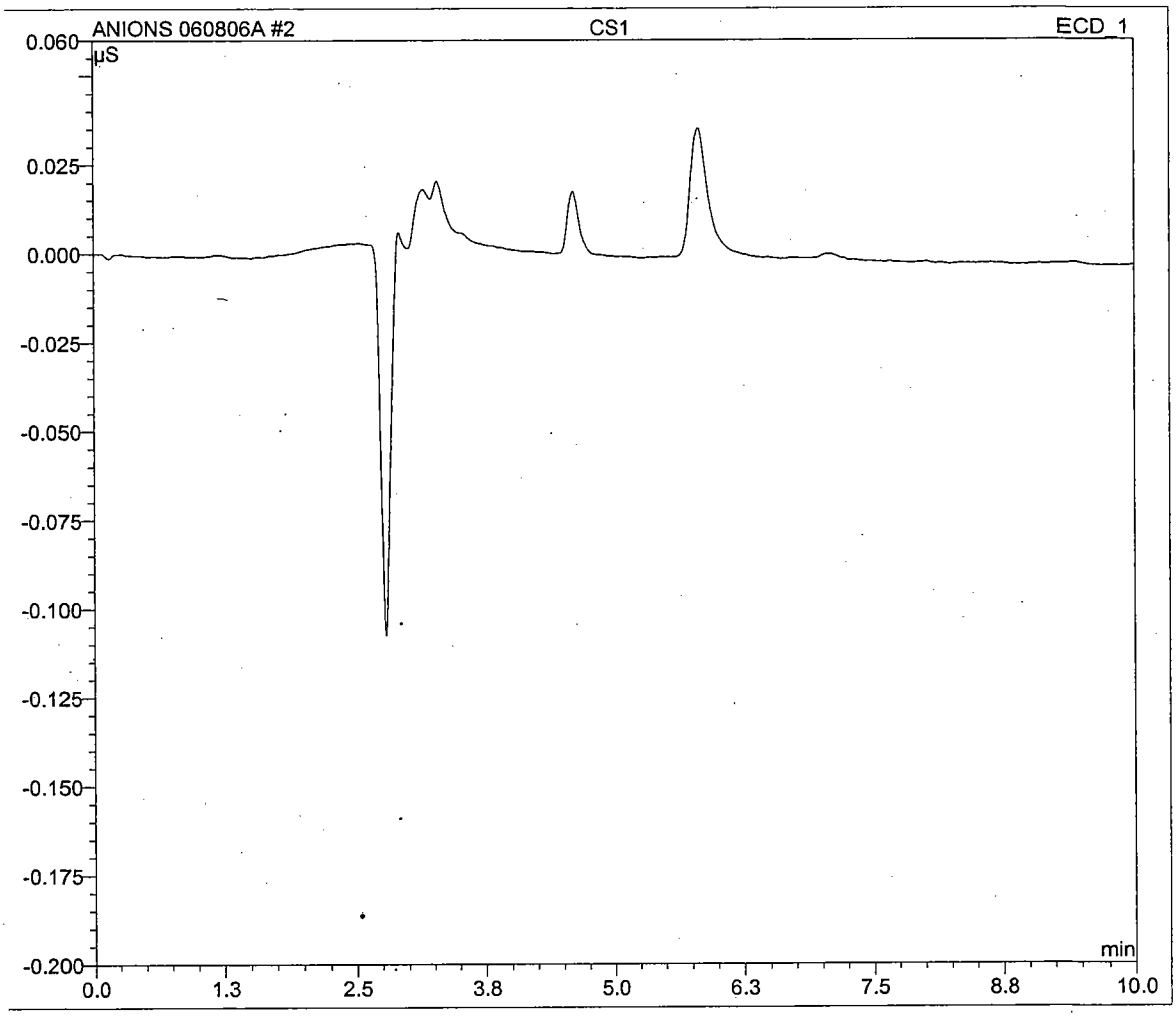
Sample Name:	**Rinse**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 12:14**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
			TOTAL:	0.00	0.00	0.00



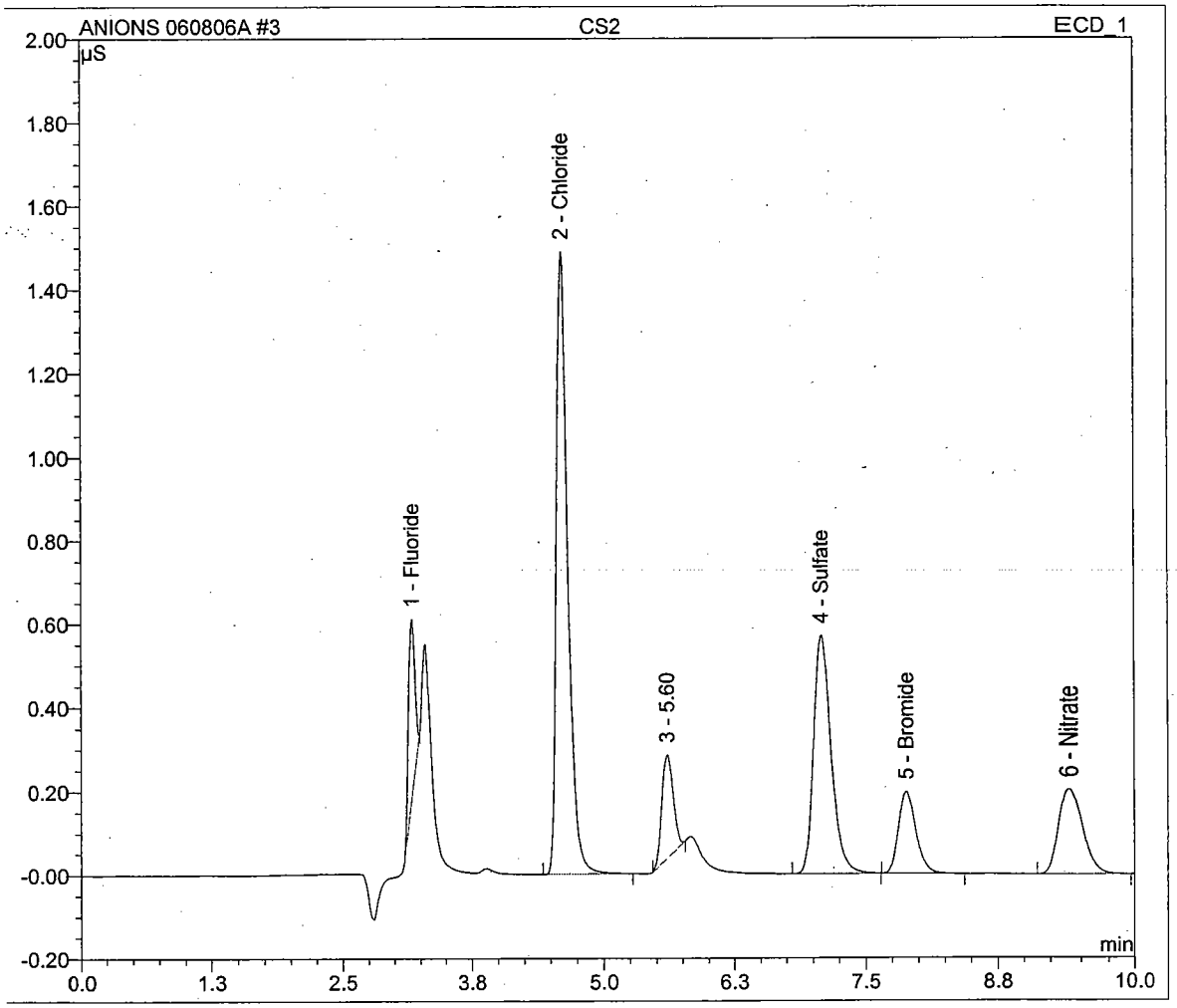
Sample Name:	**CS1**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 12:29**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
			TOTAL:	0.00	0.00	0.00



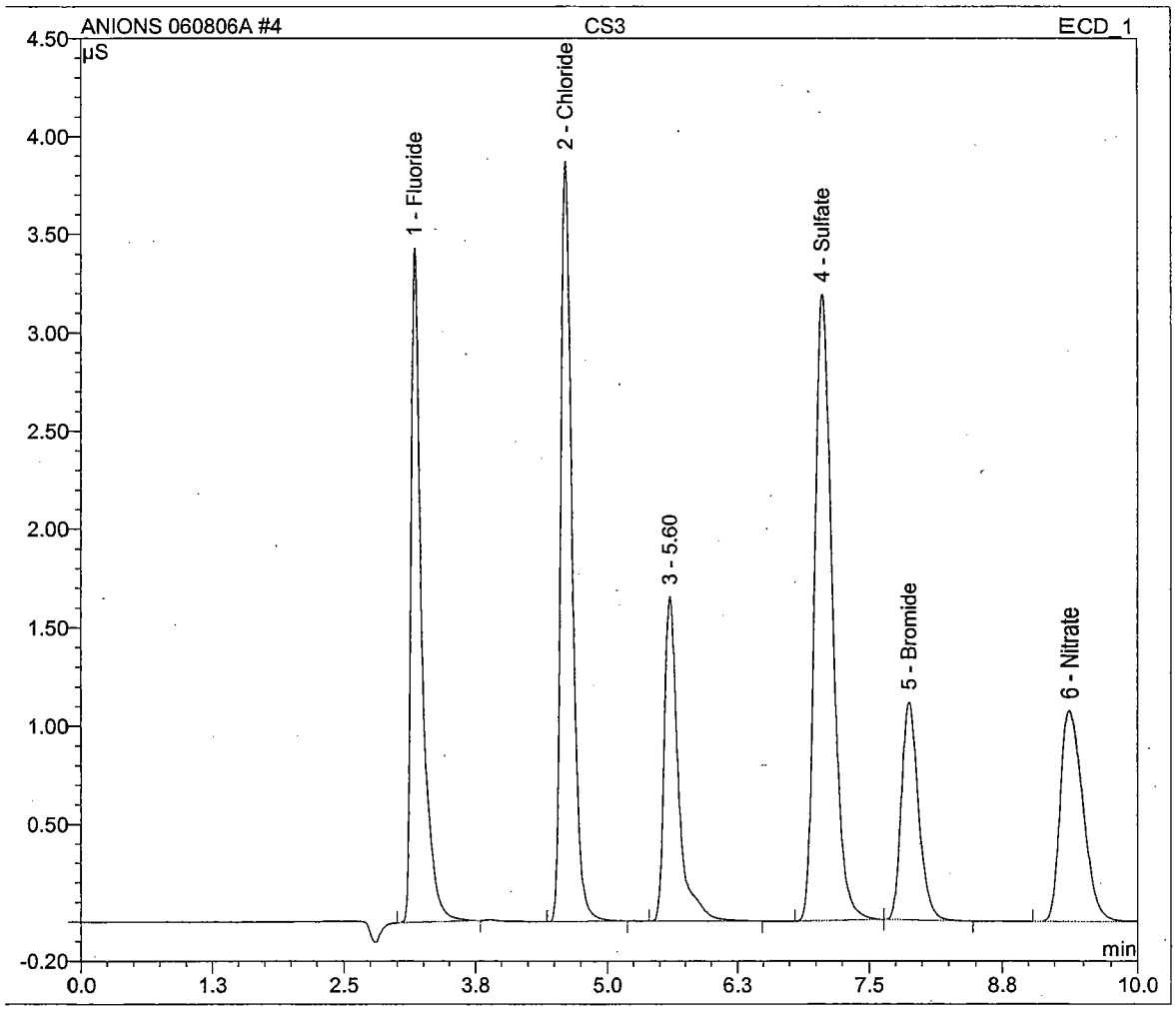
Sample Name:	**CS2**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 12:43**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.17	Fluoride	BMB	0.030	0.418	0.0822
2	4.61	Chloride	BMB	0.186	1.489	0.8051
4	7.08	Sulfate	BMB	0.111	0.569	1.1030
5	7.89	Bromide	BMB	0.038	0.196	0.8436
6	9.41	Nitrate	BMB	0.046	0.204	0.1682
			TOTAL:	0.41	2.88	3.00



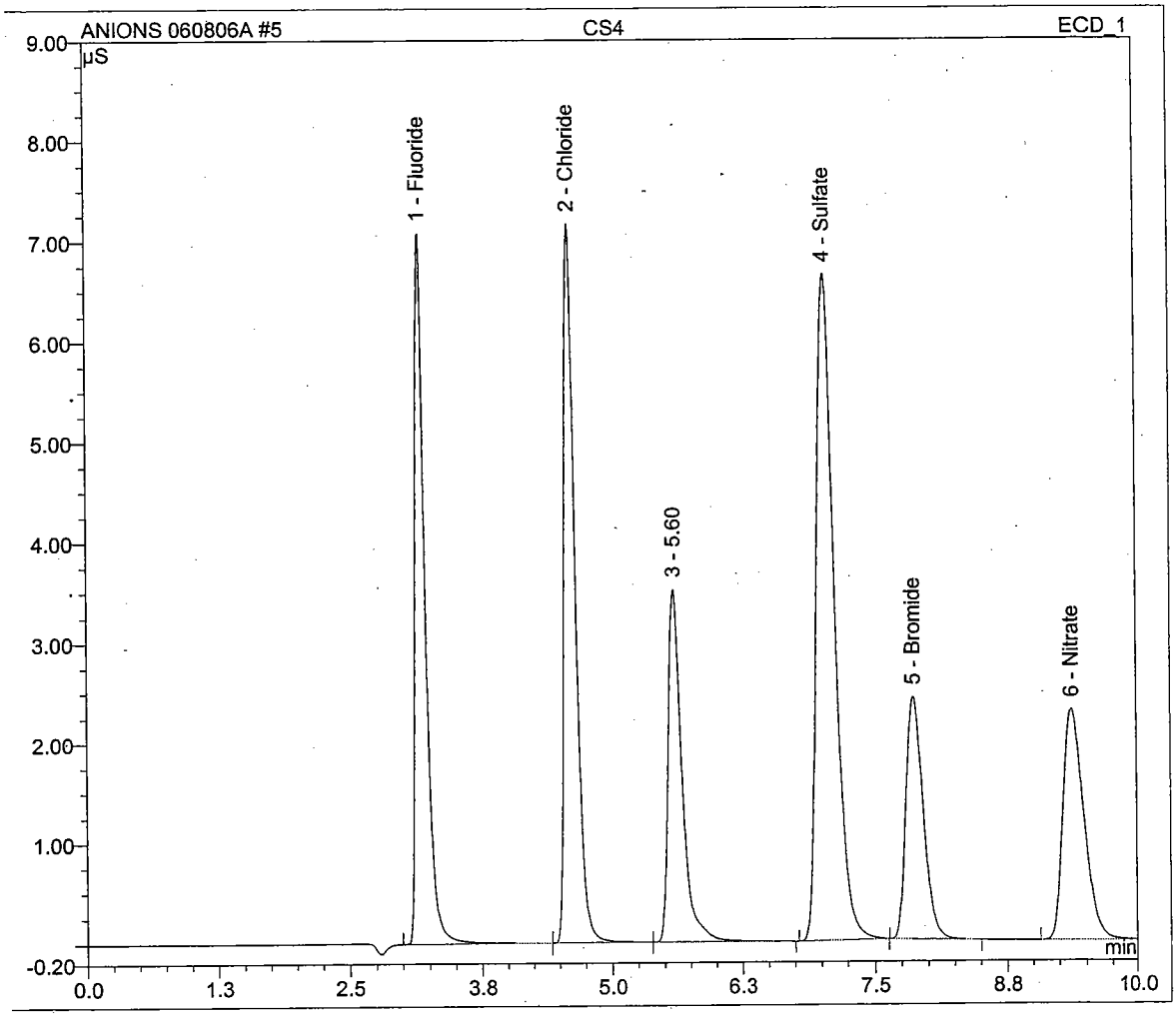
Sample Name:	**CS3**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 12:58**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.17	Fluoride	BMB	0.401	3.431	1.0571
2	4.61	Chloride	BMB	0.481	3.870	2.0373
4	7.07	Sulfate	BMB	0.616	3.189	3.9555
5	7.88	Bromide	BMB	0.208	1.112	2.4771
6	9.40	Nitrate	BMB	0.241	1.076	0.4976
			TOTAL:	1.95	12.68	10.02



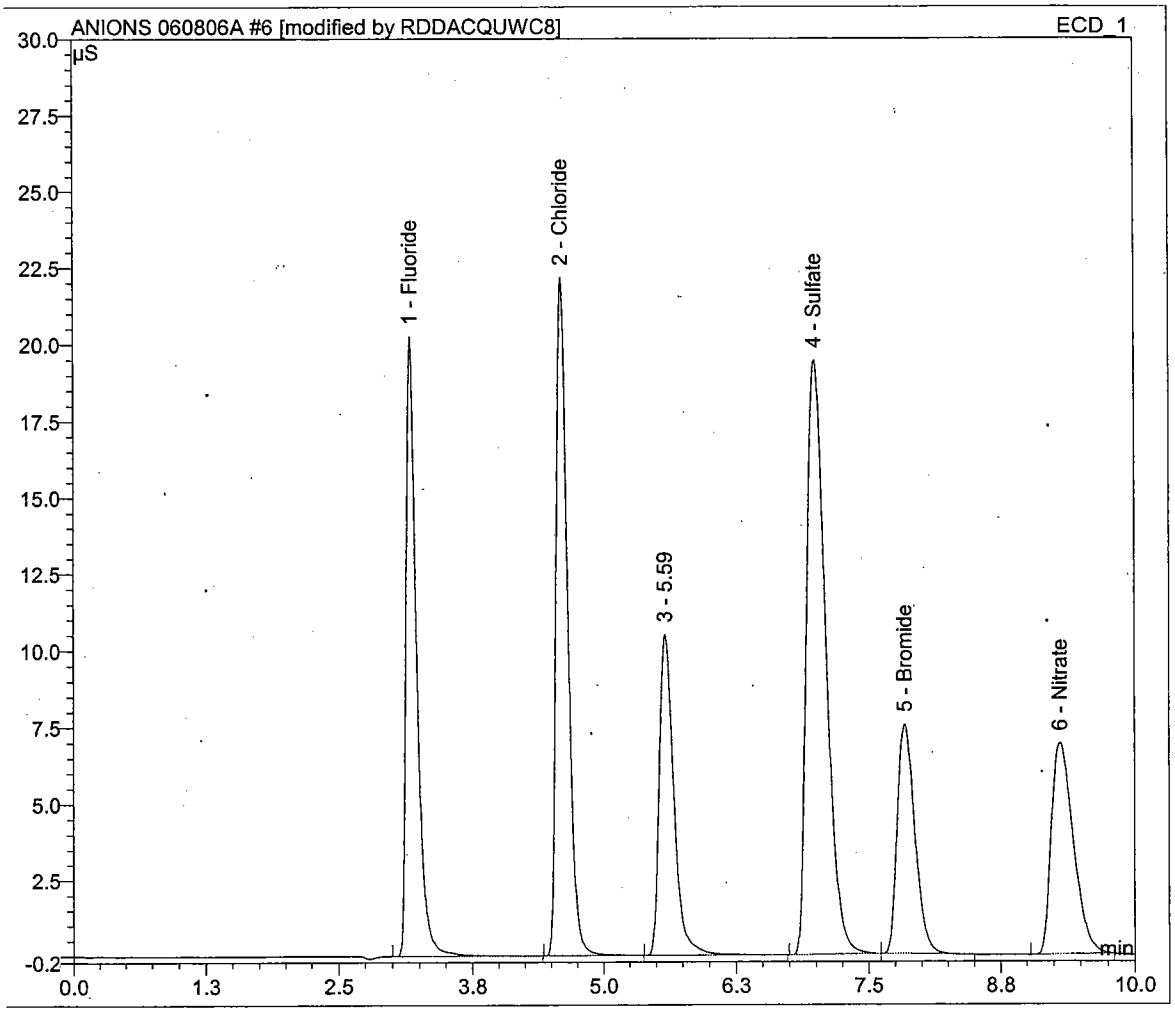
Sample Name:	**CS4**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 13:13**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.17	Fluoride	BMB	0.774	7.082	2.0402
2	4.61	Chloride	BMB	0.896	7.166	3.7722
4	7.05	Sulfate	BMB	1.309	6.647	7.8734
5	7.87	Bromide	BMB	0.451	2.417	4.8142
6	9.37	Nitrate	BMB	0.521	2.302	0.9686
			TOTAL:	3.95	25.61	19.47



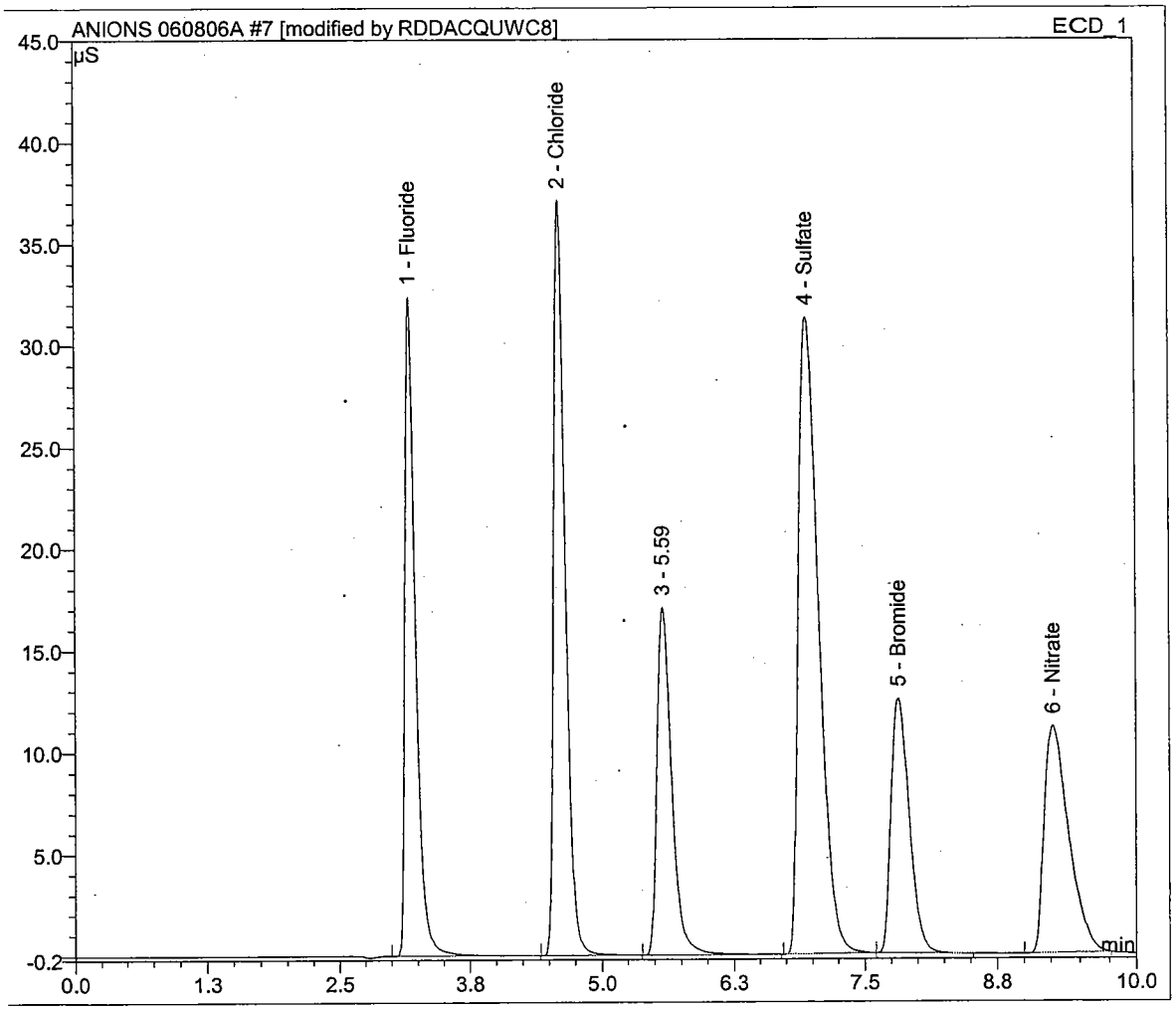
Sample Name:	**CS5**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 13:27**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.18	Fluoride	BMB	2.307	20.247	6.0728
2	4.61	Chloride	BMB	2.811	22.174	11.7777
4	7.00	Sulfate	BMb	4.068	19.435	23.4708
5	7.85	Bromide	bMB	1.454	7.512	14.4444
6	9.32	Nitrate	BMB*	1.660	6.915	2.8916
		TOTAL:		12.30	76.28	58.66



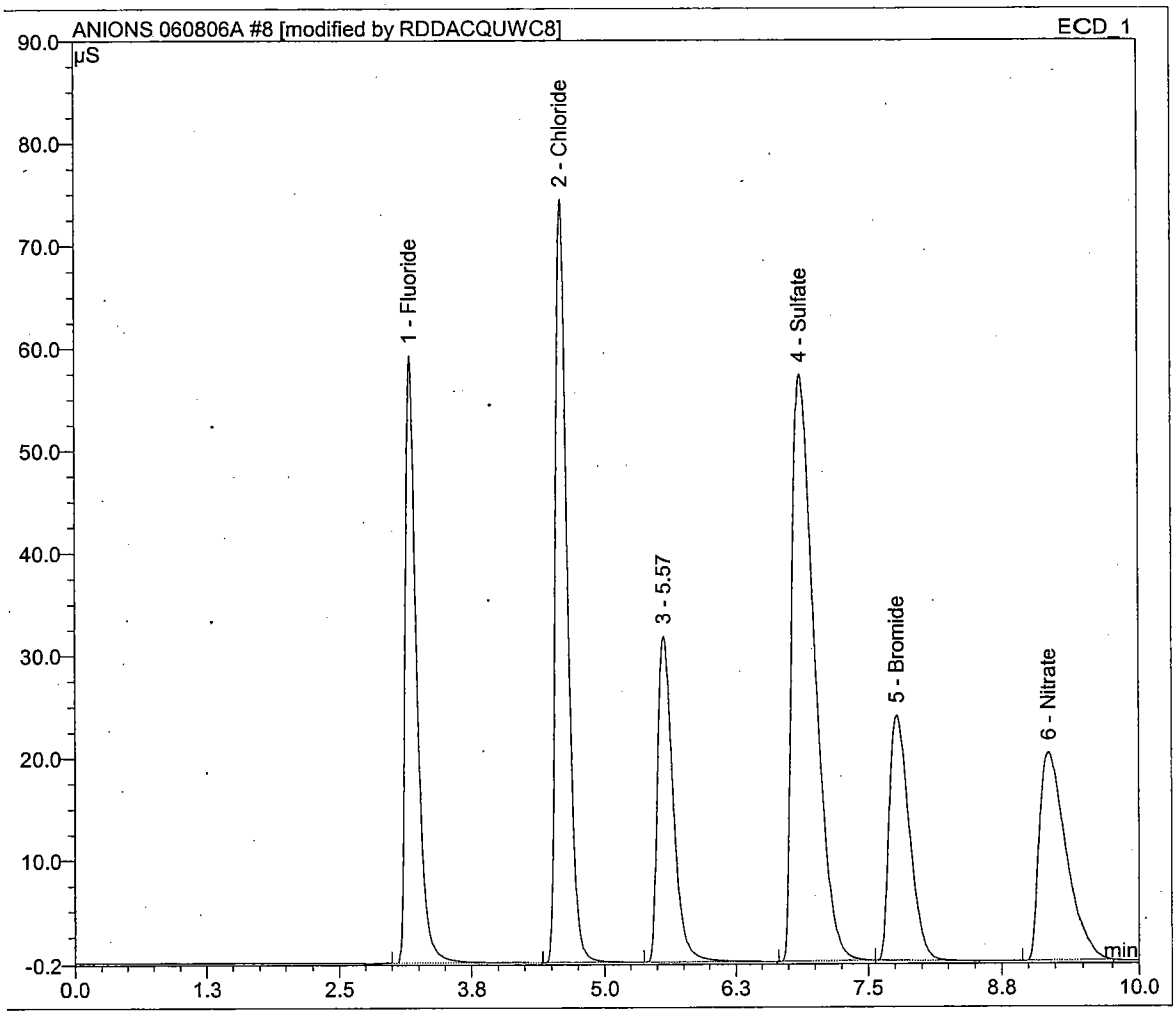
Sample Name:	**CS6**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 13:42**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.18	Fluoride	BMB	3.778	32.378	9.9449
2	4.61	Chloride	BMB	4.728	37.097	19.7939
4	6.96	Sulfate	BMb	6.905	31.301	39.5037
5	7.82	Bromide	bMB	2.502	12.484	24.5101
6	9.28	Nitrate	BMB*	2.849	11.147	4.8978
		TOTAL:		20.76	124.41	98.65



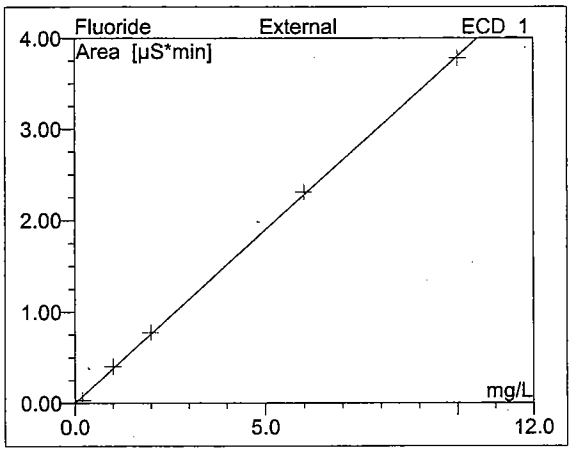
Sample Name:	**CS7**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 13:56**	*Run Time:*	**12.00**

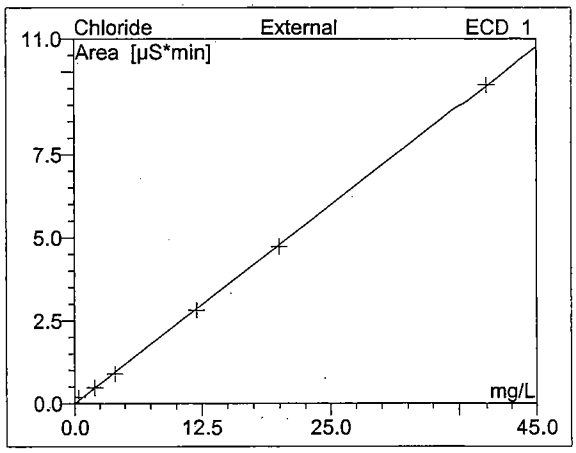
No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.18	Fluoride	BMB	7.252	59.270	19.0844
2	4.60	Chloride	BMB	9.607	74.482	40.1866
4	6.87	Sulfate	BMb	14.144	57.305	80.4187
5	7.77	Bromide	bMB	5.200	23.921	50.4279
6	9.20	Nitrate	BMB*	5.924	20.336	10.0862
		TOTAL:		42.13	235.31	200.20

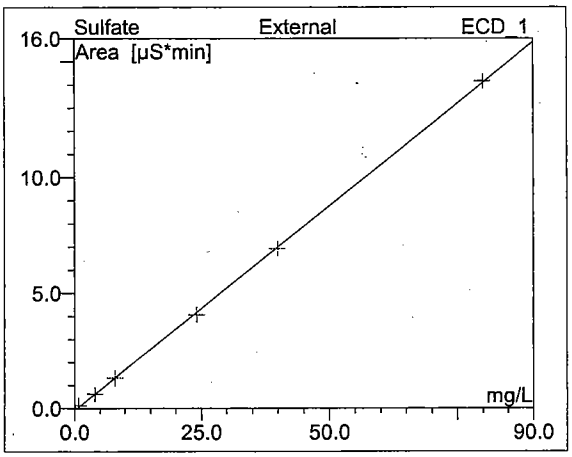


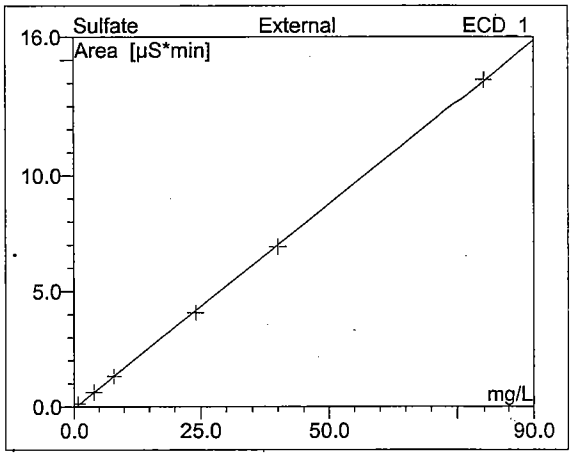
Calibration Batch Report

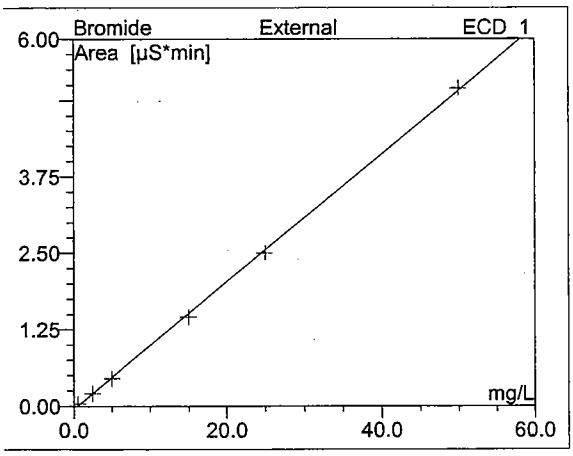
Sequence:	**ANIONS 060806A**	Inj. Vol.:	**25.0**
Program:	**Anions_Program**	Operator:	**RDD-ACQU-WC-8**
Inj. Date/Time:	**06/08/06 13:56**	Run Time:	**12.00**

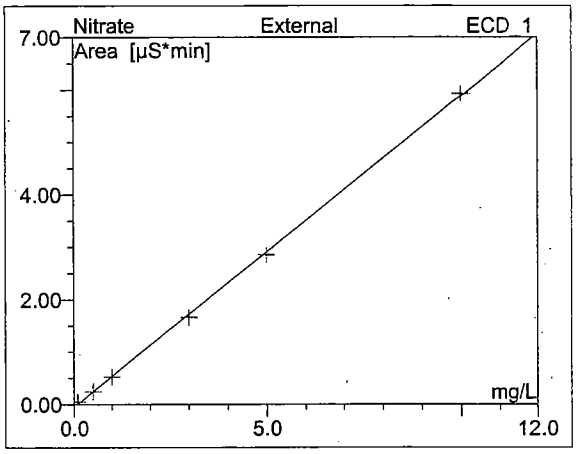












Sequence:	**ANIONS 060806A**	*Inj. Vol.:*	**25.0**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06/08/06 13:56**	*Run Time:*	**12.00**

No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	2.96	Fluoride	0LOff	5	0.005	0.465	0.000	99.999
2	4.01	Chloride	0LOff	8	-0.061	0.290	0.000	99.991
3	4.72	Nitrite	0LOff	7	0.008	0.665	0.000	99.992
4	5.48	Sulfate	0LOff	8	-0.082	0.218	0.000	99.995
5	6.43	Bromide	0LOff	7	-0.026	0.125	0.000	99.954
6	7.35	Nitrate	0LOff	6	-0.041	0.713	0.000	99.978
AVERAGE:					-0.0329	0.4126	0.0000	99.9846

No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	3.18	Fluoride	0LOff	5	-0.001059	0.380026	0	99.97990308
2	4.6	Chloride	0LOff	6	-0.006483	0.23921	0	99.98492603
4	6.873333333	Sulfate	0LOff	6	-0.083995	0.176919	0	99.9919279
5	7.773333333	Bromide	0LOff	6	-0.050253	0.10412	0	99.97743173
6	9.196666667	Nitrate	0LOff	6	-0.053344	0.592583	0	99.97724985

0.0
-4.00

Columbia Analytical Services - Redding, CA

Nitrate - Nitrite Nitrogen in Water by
Lachat Auto-Analyzer
EPA 353.2 (NO3+NO2), 354.1 (NO2)
Test Codes: NO3/2AW, NO3AW, NO2AW

Reporting Limit: 0.02 mg/L
Detection Limit: 0.005 mg/L

Spike Information

Spike ID	Conc	Spk mL	Sx mL
4395	25	0.2	10

Work Group #: NO3AW 060609
Analyst: M Pittman
Analysis Date: 06/09/2006@1855
Analyst Review: MP 6/12/06
Supervisor Review: CAS 6-12-06

Sx Type	Reference Number	Analysis Date	Analysis Time	Cup Number	Repeat Number	DF	Raw Value	Final mg/L	Qual	MDL mg/L	RL mg/L	QC Value mg/L	True Value	%R	%RPD	Remarks			
	Cal Blank	6/9/2006	18:55	1	1	1	0	NO3/2-N											
	Cal Std 1	6/9/2006	18:56	2	1	1	0.02	or											
	Cal Std 2	6/9/2006	18:57	3	1	1	0.1	NO2-N								NO3-N Calculation			
	Cal Std 3	6/9/2006	18:58	4	1	1	0.8									Report	NO2-N	NO3-N	Qual
	Cal Std 4	6/9/2006	18:59	5	1	1	1									NO3-N	mg/L	mg/L	Qual
QC	ICVS	6/9/2006	19:01	6	1	1	0.497	0.497		0.005	0.020	0.4970	0.500	99.4					
QC	0.5 PPM NO2	6/9/2006	19:03	7	1	1	0.517	0.517		0.005	0.020	0.5170	0.500	103.4					
QC	ICB	6/9/2006	19:05	8	1	1	0.0056	0.006	J	0.005	0.020	0.0056							
QC	CCV	6/9/2006	19:07	4	1	1	0.806	0.806		0.005	0.020	0.8060	0.800	100.8					
QC	CCB	6/9/2006	19:09	1	1	1	0.0046	0.005	U	0.005	0.020	0.0000							
QC	MB	6/9/2006	19:11	9	1	1	0.0011	0.005	U	0.005	0.020	0.0000							
QC	LCS	6/9/2006	19:14	10	1	1	0.498	0.498		0.005	0.020	0.4980	0.500	99.6					
LCSD	LCSD	6/9/2006	19:16	11	1	1	0.494	0.494		0.005	0.020	0.4940	0.500	98.8	0.8				
QC	D0600543-1	6/9/2006	19:18	12	1	1	1.6	1.600		0.005	0.020	1.6000				X	0.022	1.580	
MS	D0600543-1MS	6/9/2006	19:20	13	1	1	2.06	2.060		0.005	0.020	2.0600	0.500	92.0		X	0.022	2.040	
MSD	D0600543-1MS	6/9/2006	19:21	14	1	1	2.02	2.020		0.005	0.020	2.0200	0.500	84.0	2.0	X	0.022	2.000	
SX	D0600543-2	6/9/2006	19:22	15	1	1	-0.01	0.005	U	0.005	0.020					X	0.002U	0.005	U
SX	D0600543-3	6/9/2006	19:23	16	1	1	0.0097	0.010	J	0.005	0.020					X	0.003J	0.010	J
SX	D0600543-4	6/9/2006	19:24	17	1	1	4.33	4.330		0.005	0.020					X	0.002J	4.330	
SX	D0600602-1	6/9/2006	19:26	18	1	1	0.48	0.480		0.005	0.020					X	0.004J	0.480	
QC	CCV	6/9/2006	19:27	4	2	1	0.805	0.805		0.005	0.020	0.8050	0.800	100.6					
QC	CCB	6/9/2006	19:29	1	2	1	0.0002	0.005	U	0.005	0.020	0.0000							
SX	D0600602-2	6/9/2006	19:31	19	1	1	0.486	0.486		0.005	0.020					X	0.004J	0.486	
SX	D0600577-1	6/9/2006	19:33	20	1	10	0.866	8.660		0.050	0.200								
QC	CCV	6/9/2006	19:34	4	3	1	0.808	0.808		0.005	0.020	0.8080	0.800	101.0					
QC	CCB	6/9/2006	19:36	1	3	1	0.0065	0.006	J	0.005	0.020	0.0065							
QC	CCV	6/9/2006	19:45	4	3	1	0.809	0.809		0.005	0.020	0.8090	0.800	101.1					
QC	CCB	6/9/2006	19:47	1	1	1	-0.0008	0.005	U	0.005	0.020	0.0000							
QC	D0600543-1	6/9/2006	19:50	12	1	5	0.356	1.780		0.025	0.100	1.7800				X	0.022	1.760	
MS	D0600543-1MS	6/9/2006	19:51	13	1	5	0.864	4.320		0.025	0.100	4.3200	2.500	101.6		X	0.022	4.[illegible]	

Columbia Analytical Services - Redding, CA

Nitrate - Nitrite Nitrogen in Water by
Lachat Auto-Analyzer
EPA 353.2 (NO3+NO2), 354.1 (NO2)
Test Codes: NO3/2AW, NO3AW, NO2AW

Reporting Limit: 0.02 mg/L
Detection Limit: 0.005 mg/L

Spike Information

Spike ID	Conc	Spk mL	Sx mL
4395	25	0.2	10

Work Group #: NO3AW 060609
Analyst: M Pittman
Analysis Date: 06/09/2006@1855
Analyst Review: MP 6/12/06
Supervisor Review: CAS 6-12-06

Sx Type	Reference Number	Analysis Date	Analysis Time	Cup Number	Repeat Number	DF	Raw Value	Final mg/L	Qual	MDL mg/L	RL mg/L	QC Value mg/L	True Value	%R	%RPD	Remarks			
MSD	D0600543-1MS	6/9/2006	19:52	14	1	5	0.859	**4.300**		0.025	0.100	4.2950	2.500	100.6	0.6	X	0.022	**4.270**	
SX	D0600543-4	6/9/2006	19:53	17	1	10	0.649	**6.490**		0.050	0.200					X	0.002J	**6.490**	
QC	CCV	6/9/2006	19:54	4	2	1	0.811	**0.811**		0.005	0.020	0.8110	0.800	101.4					
QC	CCB	6/9/2006	19:57	1	2	1	0.0063	**0.006**	J	0.005	0.020	0.0063							

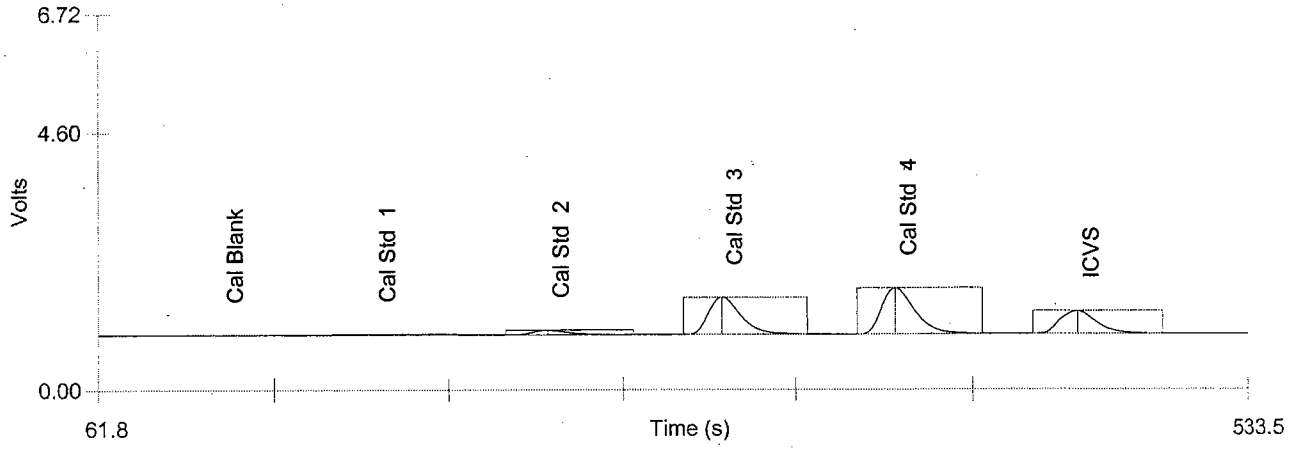
Author: RDDACQUWC5 Date : 6/9/2006

Original Run Filename: OM_6-9-2006_06-54-04PM.OMN created 6/9/2006 6:54:04 PM
Original Run Author's Signature: [RDDACQUWC5]
Current Run Filename: OM_6-9-2006_06-54-04PM.OMN last modified 6/9/2006 7:38:06 PM
Current Run Author's Signature: [RDDACQUWC5]
Description: 10-107-06-1-J

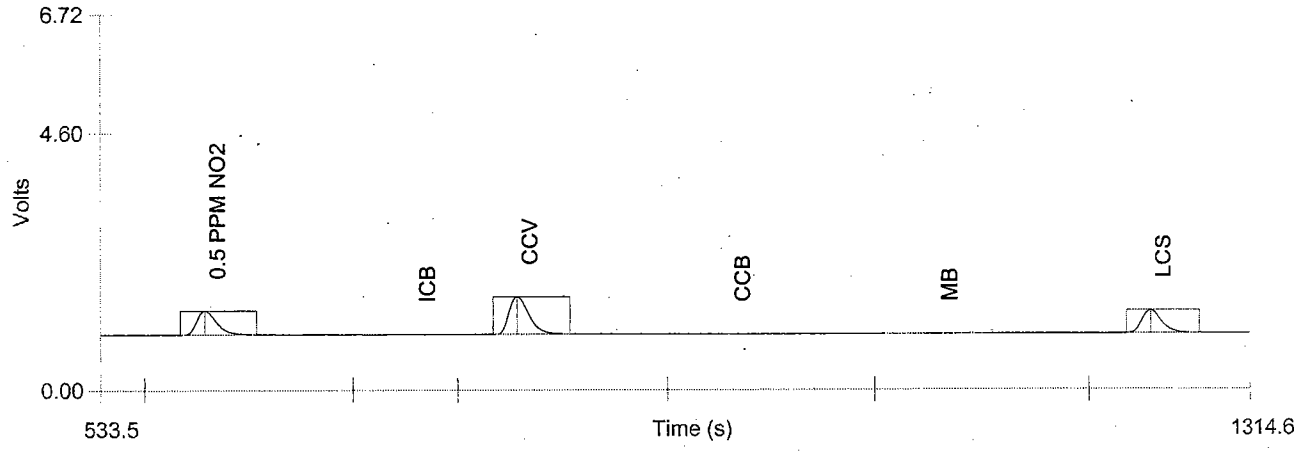
Sample (Avg. Only)	Cup No.	Channel 2 Nitrate Nitrite Conc.	Height (V)	MDF
Cal Blank	1	0.00	-0.00104	
Cal Std 1	2	0.0200	0.0133	
Cal Std 2	3	0.100	0.0815	
Cal Std 3	4	0.800	0.665	
Cal Std 4	5	1.00	0.827	
ICVS	6	0.497	0.411	
Known Conc:		0.500		
Calibration:		Table/Fig. 1		
0.5 PPM NO2	7	0.517	0.428	1.00
Known Conc:		0.500		
ICB	8	0.00564	0.00286	
Known Conc:		0.00		
CCV	4	0.806	0.668	
Known Conc:		0.800		
CCB	1	0.00461	0.00201	
Known Conc:		0.00		
MB	9	0.00108	-9.32e-4	1.00
Known Conc:		0.00		
LCS	10	0.498	0.412	1.00
Known Conc:		0.500		
LCSD	11	0.494	0.409	1.00
Known Conc:		0.500		
D0600543-1	12	1.60	1.33	1.00
D0600543-1MS	13	2.06	1.71	1.00
D0600543-1MSD	14	2.02	1.68	1.00
D0600543-2	15	-0.0100	-0.0101	1.00
D0600543-3	16	0.00973	0.00626	1.00
D0600543-4	17	4.33	3.60	1.00
D0600602-1	18	0.480	0.397	1.00
CCV	4	0.805	0.667	
Known Conc:		0.800		
CCB	1	2.25e-4	-0.00164	
Known Conc:		0.00		
D0600602-2	19	0.486	0.402	1.00
D0600577-1	20	0.866	0.718	10.00
CCV	4	0.808	0.670	
Known Conc:		0.800		
CCB	1	0.00645	0.00353	
Known Conc:		0.00		

Author: RDDACQUWC5 Date : 6/9/2006

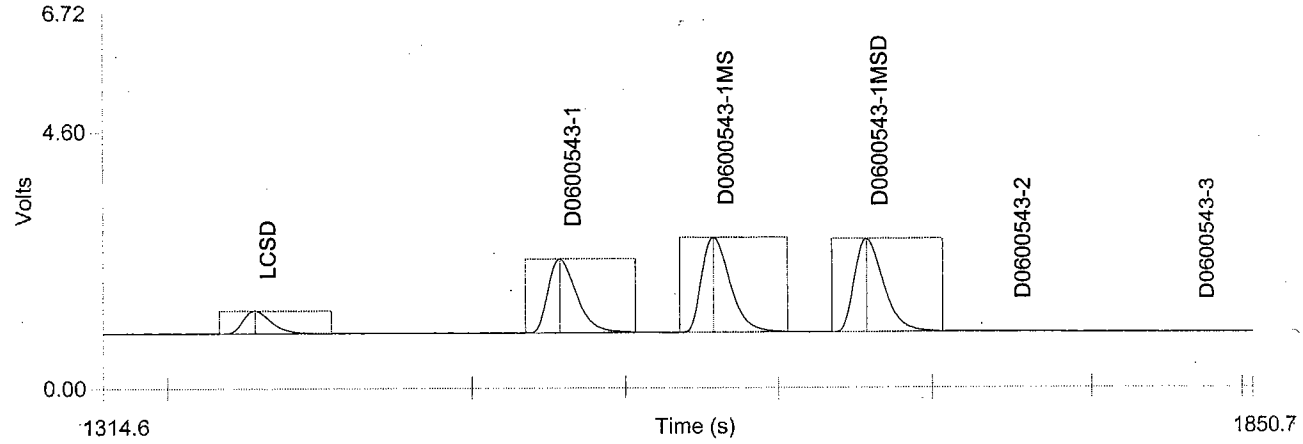
Channel 2: Set 1 of 5



Channel 2: Set 2 of 5

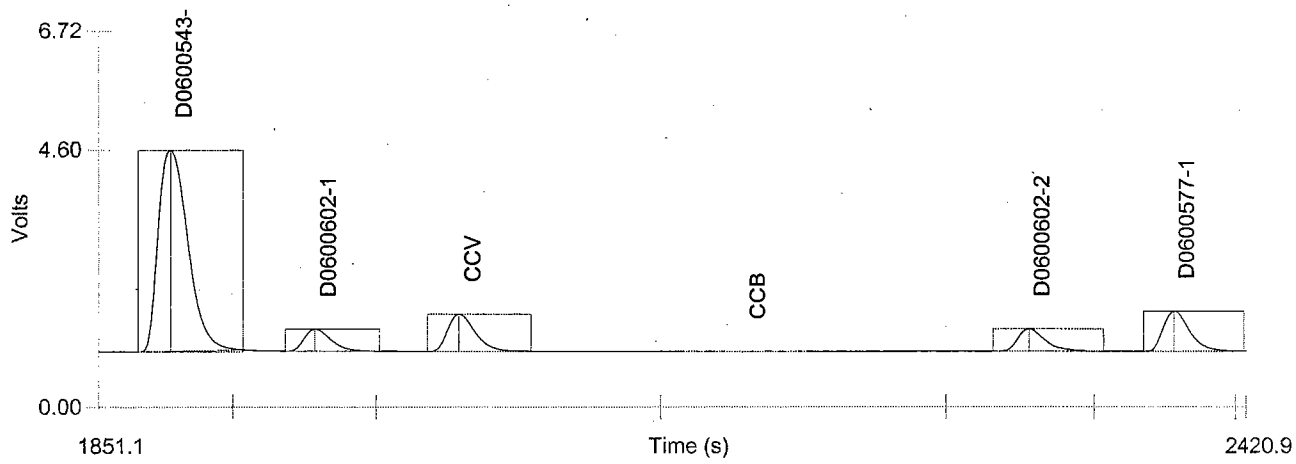


Channel 2: Set 3 of 5



Author: RDDACQUWC5 Date : 6/9/2006

Channel 2: Set 4 of 5



Channel 2: Set 5 of 5

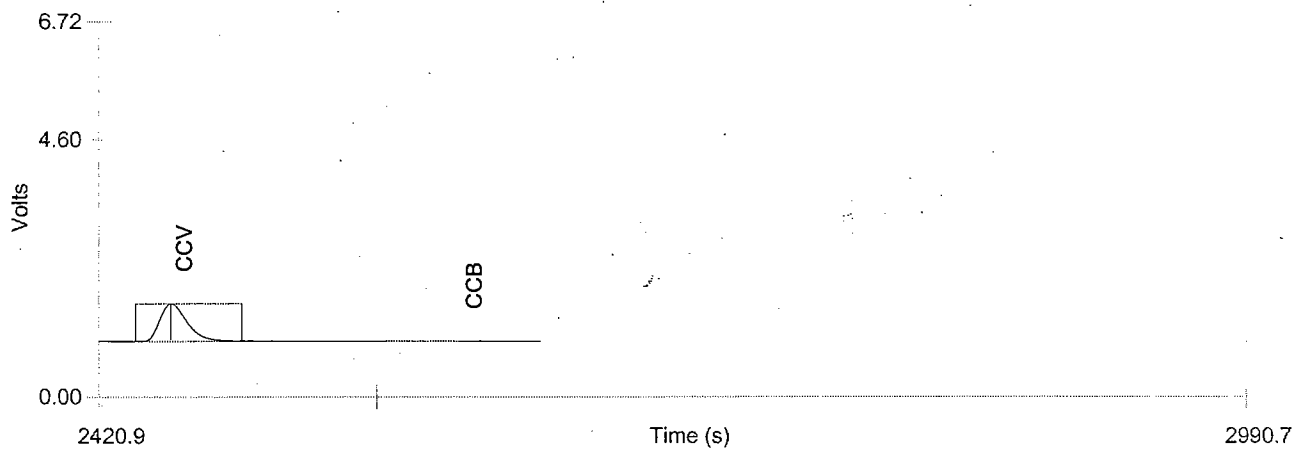


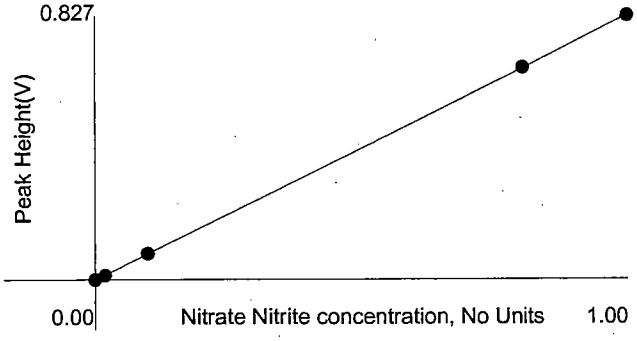
Table 1: Nitrate Nitrite

	Conc. ()	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.00	1	12.8	0.827	0.2	6/9/2006	7:01:15 PM
2	0.800	1	10.3	0.665	-0.3	6/9/2006	7:00:04 PM
3	0.100	1	1.28	0.0815	-0.3	6/9/2006	6:58:52 PM
4	0.0200	1	0.257	0.0133	9.8	6/9/2006	6:57:40 PM
5	0.00	1	-0.0775	-0.00104		6/9/2006	6:56:28 PM

Author: RDDACQUWC5

Date : 6/9/2006

Figure 1: Nitrate Nitrite



Height = 0.831 * Conc - 0.00182
Conc = 1.20 * Height + 0.00220
Correlation Coefficient (r) = 0.99999

No Weighting

Columbia Analytical Services - Redding, CA

Nitrite Nitrogen in Water	Reporting Limit:	0.02	mg/L	Spike ID	Conc	Spk mL	Sx mL	Work Group #:	NO2 060526
EPA 354.1	Detection Limit:	0.002	mg/L	G39795	1.00	1.00	10.0	Analyst:	M.PITTMAN
Test Codes: NO2								Analysis Date & Time:	05/26/06 @ 1940
								Analyst Review:	MP 6/9/06
								Supervisor Review:	CAS 6-12-06

No.	Reference Number	Sx Type	HT met	mLs color.	Blank Sx Abs.	Sx/Reag Abs.	Initial mg/L	Dil. Factor	Final mg/L	Qual	MDL mg/L	RL mg/L	QC Value mg/L	True Value	%R	%RPD	Linear Regression Data	
CB	DI	C		10		0.000								0.000			r:	0.9999
CS1	G39795	C		10		0.025								0.010			m :	0.369
CS2	G39795	C		10		0.048								0.020			b :	0.0012
CS3	G39795	C		10		0.264								0.100				
CS4	G39795	C		10		0.541								0.200			Sx Remarks	
ICV	G39796	QC		10		0.409	0.1521	1	0.152		0.002	0.020	0.1521	0.150	101.4			
ICB	ICB	QC		10		0.004	0.0027	1	0.003	J	0.002	0.020	0.0027					
MB	MB	QC		10		0.002	0.0020	1	0.002	U	0.002	0.020	0.0000					
LCS	G39796	QC		10		0.399	0.1484	1	0.148		0.002	0.020	0.1484	0.150	98.9			
LCSD	G39796	QC		10	0.000	0.409	0.1521	1	0.152		0.002	0.020	0.1521	0.150	101.4			
QC	D0600543-1	QC		10	0.000	0.055	0.0215	1	0.022		0.002	0.020	0.0215					
MS	D0600543-1MS	MS		11	0.000	0.287	0.1071	1.1	0.118		0.002	0.022	0.1178	0.100	96.3			
MSD	D0600543-1MSD	MSD		11	0.000	0.285	0.1063	1.1	0.117		0.002	0.022	0.1170	0.100	95.5	0.7		
	D0600543-2	SX		10	0.022	0.017	-0.0006	1	0.002	U	0.002	0.020						
	D0600543-3	SX		10	0.000	0.004	0.0027	1	0.003	J	0.002	0.020						
	D0600543-4	SX		10	0.000	0.003	0.0023	1	0.002	J	0.002	0.020						
CCVS	G39795	QC		10		0.267	0.0997	1	0.100		0.002	0.020	0.0997	0.100	99.7			
CCB	CCB	QC		10		0.004	0.0027	1	0.003	J	0.002	0.020	0.0027					
sx																		
sx																		

Nitrite

Page:

Analyst : MP
Analysis Date: 5/26/06 @ 1940
r :
m :
b :

Method: EPA 354.1
Test Code: NO2
@ N x 3.29 = @ NO2
Reporting Limit: 0.02 mg/L
Detection Limit: 0.002 mg/L

No.	Reference Number	H.T. Met	mls olorize	Abs.	Dil. Factor	Initial mg/L @ N	Final @ N	Unit	True Value	%RPD or % R
CB	0 mg/L		10	0.000	1			mg/L		
CS1	0.01 mg/L		10	0.025	1			mg/L	0.01	
CS2	0.02 mg/L		10	0.048	1			mg/L	0.02	
CS3	0.10 mg/L		10	0.264	1			mg/L	0.10	
CS4	0.20 mg/L		10	0.541	1			mg/L	0.20	
ICVS	0.15 mg/L		10	0.409	1			mg/L	0.15	
ICB			10	0.004	1			mg/L		
MB			10	0.002	1					
LCS	0.15 mg/L		10	0.399	1			mg/L	0.15	
s	LCD		↓	0.409						
s	D0600543-1		↓	0.000 / 0.055						
s	-1ms		11	0.287						
s	-1msD		11	0.285						
s	-2		10	0.022 / 0.017						
s	-3		↓	0.000 / 0.004						
s	-4		↓	0.000 / 0.003						
s										
s										
s										
s										
s										
s										
CCVS	0.10 mg/L		10	0.267	1			mg/L	0.10	
CCB	DI		10	0.004	1			mg/L		
s										
s										
s										
s										
s										
s										
s										
s										
s										
s										
s										
s										
s										
CCVS	0.10 mg/L		10		1			mg/L	0.10	
CCB			10		1			mg/L		

no2-mstr.xls

SPIKE (ID, Conc., Vol.): (# G 39795, 1PPM, 1.0 mls)

Updated 05/2003

Columbia Analytical Services - Redding, CA

Total Dissolved Solids in Water

Gravimetric, 180C Reporting Limit: 20 mg/L

EPA 160.1 Detection Limit: 11 mg/L

Test Codes: TDS

Work Group #:	TDS 060531
Analyst:	AM
Analysis Date:	5/31/2006 @ 0900
Analyst Review:	QM 6/6/06
Supervisor Review:	CAS 6-7-06

Sx Type	Reference Number	Cup No.	Sample Vol. mL	Initial Wt. Gram	Final Wt. #1 g	Final Wt. #2 g	Wt. Verified	Dilution Factor	Final mg/L	Qual	MDL mg/L	RL mg/L	QC Value mg/L	True Value	%R	%RPD	Remarks
	VERIFICATION	1	100	99.9981	99.9981	99.999.											
QC	MB	2	100	99.8413	99.8382	99.8386	pass	1	11	U	11	20	0				
QC	LCS	3	100	99.8292	99.8800	99.8801	pass	1	508		11	20	508	575	88.3		
LCSD	LCS DUP	4	100	106.4972	106.5469	106.5471	pass	1	497		11	20	497	575	86.4	2.2	
Sx	D0543-2	5	20	101.1477	101.1898	101.1895	pass	5	2110		55	100					
Sx	D0543-3	6	50	101.3371	101.3718	101.3710	pass	2	694		22	40					
QC	D0551-1	7	100	100.6413	100.7222	100.7190	pass	1	809		11	20	809				
DUP	D0551-1 DUP	8	100	100.4681	100.5493	100.5464	pass	1	812		11	20	812			0.4	
Sx	D0555-1	9	100	107.3142	107.3364	107.3371	pass	1	222		11	20					
Sx	D0555-2	10	100	99.5669	99.5857	99.5860	pass	1	188		11	20					

Total and Volatile Dissolved Solids

Analyst: am
Analysis Date: 5/31/06 @ 0900
Method: EPA 160.1

Test Codes: TDS/VDS
Reporting Limit: 20 mg/L
Detection Limit: 11 mg/L
TDS @ 180°C VDS @ 550°C

Line Number	Ref. Number	E.C.	Dish Number	mls sample	Dil. Factor	TDS mg/L	VDS mg/L	True Value	%RPD or % R
001	verification	N/A	N/A	N/A	N/A			100.0000g	
002	MB	↓	44	100	1	<11 <20			
003	LCS	↓	18	↓	↓	~~508~~		~~575~~ am 6/6/06	
004	LCS dup	↓	19	↓	↓				
005	D0543-2	4020	31	20	5				
006	-3	1344	291	~~100~~ 50	~~1~~ 2 *				
007	D0551-1	1420	100A	100 am 6/3/06	1 am 6/3/06				
008	-Dup	1420	200B	↓	↓				
009	D0555-1	315	35	↓	↓				
010	-2	255	7	↓	↓				
011									
012									
013									
014									
015									
016									
017									
018									
019									
020									
021									
022									
023									
024									
025									

31-May-2006 8:50:41

001:	+	99.9981 g
~~001:~~ 002	+	99.8413 g
~~002:~~ 003	+	99.8292 g
~~003:~~ 004	+	106.4972 g
~~004:~~ 005	+	101.1477 g
~~005:~~ 006	+	101.3371 g
~~006:~~ 007	+	100.6413 g
~~007:~~ 008	+	100.4681 g
~~008:~~ 009	+	107.3142 g
~~009:~~ 010	+	99.5669 g

2-Jun-2006 9:46:55

001:	+	99.9981 g
002:	+	99.8382 g
003:	+	99.8800 g
004:	+	106.5469 g
005:	+	101.1898 g
006:	+	101.3718 g
007:	+	100.7222 g
008:	+	100.5493 g
009:	+	107.3322 g
010:	+	99.5820 g

3-Jun-2006 8:30:24

001:	+	99.9998 g
002:	+	99.8287 g
003:	+	99.8733 g
004:	+	106.5382 g
005:	+	101.1806 g
006:	+	101.3664 g
007:	+	100.7176 g
008:	+	100.5435 g
009:	+	107.3267 g
010:	+	99.5756 g

3-Jun-2006 11:26:32

001:	+	99.9993 g
002:		~~99.8375 g~~ am 6/3/06
	+	99.8386 g
003:	+	99.8801 g
004:	+	106.5471 g
005:	+	101.1895 g
006:	+	101.3710 g
007:	+	100.7190 g
008:	+	100.5464 g
		~~100.5470 g~~ am 6/3/06
009:	+	107.3305 g
010:	+	99.5801 g

Final

3-Jun-2006 13:38:24

001:	+	99.9990 g
~~002:~~ 009	+	107.3364 g
~~003:~~ 010	+	99.5857 g

Verification

6-Jun-2006 9:58:58

001:	+	100.0001 g
009:	+	107.3371 g
010:	+	99.5860 g

tds-mstr.xls

Updated 5/04

* 50 mL of sample used due to high suspended solids content.
am 5/31/06

Metals

Sample Results

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client:	Treadwell and Rollo, Inc.	**Service Request:**	D0600543
Project:	Presidio	**Date Collected:**	05/24/2006
Sample Matrix:	Water	**Date Received:**	05/26/2006

Trace Metals

Sample Name: 1213GW101CL
Lab Code: D0600543-001
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
Aluminum	Dissolved	SW6010	100	1	06/02/2006	06/07/2006	ND	U
Antimony	Dissolved	SW6020	2.0	1	06/02/2006	06/14/2006	ND	U
Arsenic	Dissolved	SW6020	2.0	1	06/02/2006	06/08/2006	6.1	
Barium	Dissolved	SW6010	10.0	1	06/02/2006	06/07/2006	17.0	
Beryllium	Dissolved	SW6020	1.0	1	06/02/2006	06/08/2006	ND	U
Cadmium	Dissolved	SW6020	1.0	1	06/02/2006	06/08/2006	ND	U
Calcium	Dissolved	SW6010	500	1	06/02/2006	06/07/2006	21100	
Chromium	Dissolved	SW6010	10.0	1	06/02/2006	06/07/2006	44.0	
Cobalt	Dissolved	SW6020	1.0	1	06/02/2006	06/08/2006	ND	U
Copper	Dissolved	SW6020	2.0	1	06/02/2006	06/08/2006	3.0	
Iron	Dissolved	SW6010	100	1	06/02/2006	06/07/2006	ND	U
Lead	Dissolved	SW6020	1.0	1	06/02/2006	06/08/2006	ND	U
Magnesium	Dissolved	SW6010	500	1	06/02/2006	06/07/2006	80800	
Manganese	Dissolved	SW6010	10.0	1	06/02/2006	06/07/2006	18.0	
Nickel	Dissolved	SW6020	2.0	1	06/02/2006	06/08/2006	4.7	
Potassium	Dissolved	SW6010	5000	1	06/02/2006	06/07/2006	ND	U
Selenium	Dissolved	SW7740	2.0	1	06/02/2006	06/19/2006	2.1	
Silver	Dissolved	SW6020	1.0	1	06/02/2006	06/14/2006	ND	U
Sodium	Dissolved	SW6010	5000	1	06/02/2006	06/07/2006	341000	
Thallium	Dissolved	SW6020	1.0	1	06/02/2006	06/08/2006	ND	U
Vanadium	Dissolved	SW6010	10.0	1	06/02/2006	06/07/2006	ND	U
Zinc	Dissolved	SW6010	20.0	1	06/02/2006	06/07/2006	ND	U

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: 05/24/2006
Date Received: 05/26/2006

Trace Metals

Sample Name: 1349MW100CL
Lab Code: D0600543-002
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
Aluminum	Dissolved	SW6010	100	1	06/02/2006	06/07/2006	ND	U
Antimony	Dissolved	SW6020	2.0	1	06/02/2006	06/14/2006	ND	U
Arsenic	Dissolved	SW6020	2.0	1	06/02/2006	06/08/2006	15	
Barium	Dissolved	SW6010	10.0	1	06/02/2006	06/07/2006	425	
Beryllium	Dissolved	SW6020	10	10	06/02/2006	06/08/2006	ND	U
Cadmium	Dissolved	SW6020	1.0	1	06/02/2006	06/08/2006	ND	U
Calcium	Dissolved	SW6010	500	1	06/02/2006	06/07/2006	165000	
Chromium	Dissolved	SW6010	10.0	1	06/02/2006	06/07/2006	ND	U
Cobalt	Dissolved	SW6020	1.0	1	06/02/2006	06/08/2006	5.1	
Copper	Dissolved	SW6020	2.0	1	06/02/2006	06/08/2006	4.3	
Iron	Dissolved	SW6010	100	1	06/02/2006	06/07/2006	36500	
Lead	Dissolved	SW6020	1.0	1	06/02/2006	06/08/2006	ND	U
Magnesium	Dissolved	SW6010	500	1	06/02/2006	06/07/2006	226000	
Manganese	Dissolved	SW6010	10.0	1	06/02/2006	06/07/2006	14800	
Mercury	Dissolved	SW7470	0.200	1	05/30/2006	05/30/2006	ND	U
Nickel	Dissolved	SW6020	2.0	1	06/02/2006	06/08/2006	15	
Potassium	Dissolved	SW6010	5000	1	06/02/2006	06/07/2006	ND	U
Selenium	Dissolved	SW7740	2.0	1	06/02/2006	06/19/2006	ND	U
Silver	Dissolved	SW6020	1.0	1	06/02/2006	06/14/2006	ND	U
Sodium	Dissolved	SW6010	5000	1	06/02/2006	06/07/2006	502000	
Thallium	Dissolved	SW6020	1.0	1	06/02/2006	06/08/2006	ND	U
Vanadium	Dissolved	SW6010	10.0	1	06/02/2006	06/07/2006	ND	U
Zinc	Dissolved	SW6010	20.0	1	06/02/2006	06/07/2006	ND	U

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: 05/24/2006
Date Received: 05/26/2006

Trace Metals

Sample Name: 1065MW9ACL
Lab Code: D0600543-003
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
Aluminum	Dissolved	SW6010	100	1	06/02/2006	06/07/2006	ND	U
Antimony	Dissolved	SW6020	2.0	1	06/02/2006	06/14/2006	ND	U
Arsenic	Dissolved	SW6020	2.0	1	06/02/2006	06/08/2006	7.5	
Cadmium	Dissolved	SW6020	1.0	1	06/02/2006	06/08/2006	ND	U
Calcium	Dissolved	SW6010	500	1	06/02/2006	06/07/2006	69900	
Chromium	Dissolved	SW6010	10.0	1	06/02/2006	06/07/2006	ND	U
Copper	Dissolved	SW6020	2.0	1	06/02/2006	06/08/2006	ND	U
Iron	Dissolved	SW6010	100	1	06/02/2006	06/07/2006	7160	
Lead	Dissolved	SW6020	1.0	1	06/02/2006	06/08/2006	ND	U
Magnesium	Dissolved	SW6010	500	1	06/02/2006	06/07/2006	102000	
Manganese	Dissolved	SW6010	10.0	1	06/02/2006	06/07/2006	563	
Nickel	Dissolved	SW6020	2.0	1	06/02/2006	06/08/2006	2.6	
Potassium	Dissolved	SW6010	5000	1	06/02/2006	06/07/2006	17800	
Sodium	Dissolved	SW6010	5000	1	06/02/2006	06/07/2006	76100	
Zinc	Dissolved	SW6010	20.0	1	06/02/2006	06/07/2006	ND	U

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: 05/25/2006
Date Received: 05/26/2006

Trace Metals

Sample Name: BHWGW01CL
Lab Code: D0600543-004
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
Aluminum	Dissolved	SW6010	100	1	06/02/2006	06/07/2006	ND	U
Antimony	Dissolved	SW6020	2.0	1	06/02/2006	06/14/2006	ND	U
Arsenic	Dissolved	SW6020	2.0	1	06/02/2006	06/08/2006	ND	U
Barium	Dissolved	SW6010	10.0	1	06/02/2006	06/07/2006	53.0	
Beryllium	Dissolved	SW6020	1.0	1	06/02/2006	06/08/2006	ND	U
Cadmium	Dissolved	SW6020	1.0	1	06/02/2006	06/08/2006	ND	U
Calcium	Dissolved	SW6010	500	1	06/02/2006	06/07/2006	19600	
Chromium	Dissolved	SW6010	10.0	1	06/02/2006	06/07/2006	128	
Cobalt	Dissolved	SW6020	1.0	1	06/02/2006	06/08/2006	ND	U
Copper	Dissolved	SW6020	2.0	1	06/02/2006	06/08/2006	2.3	
Iron	Dissolved	SW6010	100	1	06/02/2006	06/07/2006	ND	U
Lead	Dissolved	SW6020	1.0	1	06/02/2006	06/08/2006	ND	U
Magnesium	Dissolved	SW6010	500	1	06/02/2006	06/07/2006	88300	
Manganese	Dissolved	SW6010	10.0	1	06/02/2006	06/07/2006	ND	U
Nickel	Dissolved	SW6020	2.0	1	06/02/2006	06/08/2006	3.5	
Potassium	Dissolved	SW6010	5000	1	06/02/2006	06/07/2006	ND	U
Selenium	Dissolved	SW7740	2.0	1	06/02/2006	06/19/2006	ND	U
Silver	Dissolved	SW6020	1.0	1	06/02/2006	06/14/2006	ND	U
Sodium	Dissolved	SW6010	5000	1	06/02/2006	06/07/2006	241000	
Thallium	Dissolved	SW6020	1.0	1	06/02/2006	06/08/2006	ND	U
Vanadium	Dissolved	SW6010	10.0	1	06/02/2006	06/07/2006	ND	U
Zinc	Dissolved	SW6010	20.0	1	06/02/2006	06/07/2006	ND	U

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QA Report

Client:	Treadwell and Rollo, Inc.	**Service Request:**	D0600543
Project:	Presidio	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Trace Metals

Sample Name: Method Blank
Lab Code: PBW-0530
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
Mercury	Dissolved	SW7470	0.20	1	05/30/2006	05/30/2006	ND	U

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QA Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: NA
Date Received: NA

Trace Metals

Sample Name: Method Blank
Lab Code: PBW-0602
Test Notes:

Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
Aluminum	Dissolved	SW6010	100.0	1	06/02/2006	06/07/2006	ND	U
Antimony	Dissolved	SW6020	2.000	1	06/02/2006	06/14/2006	ND	U
Arsenic	Dissolved	SW6020	2.000	1	06/02/2006	06/08/2006	ND	U
Barium	Dissolved	SW6010	10.0	1	06/02/2006	06/07/2006	ND	U
Beryllium	Dissolved	SW6020	1.000	1	06/02/2006	06/08/2006	ND	U
Cadmium	Dissolved	SW6020	1.000	1	06/02/2006	06/08/2006	ND	U
Calcium	Dissolved	SW6010	500.0	1	06/02/2006	06/07/2006	ND	U
Chromium	Dissolved	SW6010	10.0	1	06/02/2006	06/07/2006	ND	U
Cobalt	Dissolved	SW6020	1.000	1	06/02/2006	06/08/2006	ND	U
Copper	Dissolved	SW6020	2.000	1	06/02/2006	06/08/2006	ND	U
Iron	Dissolved	SW6010	100.0	1	06/02/2006	06/07/2006	ND	U
Lead	Dissolved	SW6020	1.000	1	06/02/2006	06/08/2006	ND	U
Magnesium	Dissolved	SW6010	500.0	1	06/02/2006	06/07/2006	ND	U
Manganese	Dissolved	SW6010	10.0	1	06/02/2006	06/07/2006	ND	U
Nickel	Dissolved	SW6020	2.000	1	06/02/2006	06/08/2006	ND	U
Potassium	Dissolved	SW6010	5000.0	1	06/02/2006	06/07/2006	ND	U
Selenium	Dissolved	SW7740	2.0	1	06/02/2006	06/19/2006	ND	U
Silver	Dissolved	SW6020	1.000	1	06/02/2006	06/14/2006	ND	U
Sodium	Dissolved	SW6010	5000.0	1	06/02/2006	06/07/2006	ND	U
Thallium	Dissolved	SW6020	1.000	1	06/02/2006	06/08/2006	ND	U
Vanadium	Dissolved	SW6010	10.0	1	06/02/2006	06/07/2006	ND	U
Zinc	Dissolved	SW6010	20.0	1	06/02/2006	06/07/2006	ND	U

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	Treadwell and Rollo, Inc.	**Service Request:**	D0600543
Project:	Presidio	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	05/30/2006
		Date Analyzed:	05/30/2006

Trace Metals

LCS Sample Name:	Lab Control Sample	DLCS Sample	Lab Control Sample Duplicate
Lab Code:	LCSW-0530 / LCSDW-0530	Units:	ug/L (ppb)
Test Notes:		Basis:	NA

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result DLCS	Spike % Rec LCS	Spike % Rec DLCS	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Mercury	Dissolved	SW7470	0.20	2.00	2.17	2.15	108	108	80-120	1	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: NA
Date Received: NA
Date Extracted: 06/02/2006
Date Analyzed: 06/07/2006

Trace Metals

LCS Sample Name: Lab Control Sample
Lab Code: LCSW-0602 / LCSDW-0602
Test Notes:

DLCS Sample: Lab Control Sample Duplicate
Units: ug/L (ppb)
Basis: NA

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result DLCS	Spike % Rec LCS	Spike % Rec DLCS	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Aluminum	Dissolved	SW6010	100.0	2000.0	2310.0	2250.0	116	112	80-120	3	
Antimony	Dissolved	SW6020	2.00	20.0	21.40	21.40	107.0	107.0	80-120	0	
Arsenic	Dissolved	SW6020	2.00	20.0	19.70	19.80	98	99	80-120	1	
Barium	Dissolved	SW6010	10.0	1000.0	1170.0	1140.0	117	114	80-120	3	
Calcium	Dissolved	SW6010	500.0	1000.0	1150.0	1120.0	115	112	80-120	3	
Chromium	Dissolved	SW6010	10.0	500.0	587.0	575.0	117	115	80-120	2	
Lead	Dissolved	SW6020	1.00	20.0	20.10	20.10	100	100	80-120	0	
Iron	Dissolved	SW6010	100.0	1000.0	1210.0	1180.0	121	118	80-120	3	*
Magnesium	Dissolved	SW6010	500.0	1000.0	1130.0	1130.0	113	113	80-120	0	
Manganese	Dissolved	SW6010	10.0	1000.0	1160.0	1140.0	116	114	80-120	2	
Potassium	Dissolved	SW6010	5000.0	10000.0	11300.0	11200.0	113	112	80-120	1	
Sodium	Dissolved	SW6010	5000.0	2000.0	2210	2180	110	109	80-120	1	
Vanadium	Dissolved	SW6010	10.0	1000.0	1160.0	1130.0	116	113	80-120	3	
Zinc	Dissolved	SW6010	20.0	1000.0	1170.0	1150.0	117	115	80-120	2	
Cadmium	Dissolved	SW6020	1.00	20.0	19.50	19.70	98	98	80-120	1	
Cobalt	Dissolved	SW6020	1.00	20.0	19.80	19.80	99	99	80-120	0	
Copper	Dissolved	SW6020	2.00	20.0	19.70	19.80	98	99	80-120	1	
Selenium	Dissolved	SW7740	20.0	100.000	114.3	113.9	114	114	80-120	0	
Nickel	Dissolved	SW6020	2.00	20.0	19.60	19.60	98	98	80-120	0	
Silver	Dissolved	SW6020	1.00	20.0	21.80	21.60	109	108	80-120	1	
Thallium	Dissolved	SW6020	1.00	20.0	20.10	20.00	100	100	80-120	0	
Beryllium	Dissolved	SW6020	1.00	20.0	19.30	19.40	96	97	80-120	1	

QC Summary

METALS

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Treadwell and Rollo, Inc. **SDG No.:** D0600543

Contract: Presidio **Lab Code:** RDD **Case No.:** **SAS No.:**

Initial Calibration Source: CPI

Continuing Calibration Source: CPI

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1									
	Aluminum	2040	2000	102	90.0 - 110.0	P	6/7/2006	13:10	060706TJA
	Barium	208	200	104	90.0 - 110.0	P	6/7/2006	13:10	060706TJA
	Calcium	3110	3000	104	90.0 - 110.0	P	6/7/2006	13:10	060706TJA
	Chromium	529	500	106	90.0 - 110.0	P	6/7/2006	13:10	060706TJA
	Iron	3200	3000	107	90.0 - 110.0	P	6/7/2006	13:10	060706TJA
	Magnesium	3150	3000	105	90.0 - 110.0	P	6/7/2006	13:10	060706TJA
	Manganese	208	200	104	90.0 - 110.0	P	6/7/2006	13:10	060706TJA
	Potassium	12300	12000	102	90.0 - 110.0	P	6/7/2006	13:10	060706TJA
	Sodium	5000	4000	102	90.0 - 110.0	P	6/7/2006	13:10	060706TJA
	Vanadium	214	200	107	90.0 - 110.0	P	6/7/2006	13:10	060706TJA
	Zinc	207	200	104	90.0 - 110.0	P	6/7/2006	13:10	060706TJA
CCV1									
	Aluminum	8400	8000	105	90.0 - 110.0	P	6/7/2006	14:03	060706TJA
	Barium	2170	2000	108	90.0 - 110.0	P	6/7/2006	14:03	060706TJA
	Calcium	42900	40000	107	90.0 - 110.0	P	6/7/2006	14:03	060706TJA
	Chromium	2140	2000	107	90.0 - 110.0	P	6/7/2006	14:03	060706TJA
	Iron	43400	40000	108	90.0 - 110.0	P	6/7/2006	14:03	060706TJA
	Magnesium	41300	40000	103	90.0 - 110.0	P	6/7/2006	14:03	060706TJA
	Manganese	2130	2000	106	90.0 - 110.0	P	6/7/2006	14:03	060706TJA
	Potassium	20400	20000	102	90.0 - 110.0	P	6/7/2006	14:03	060706TJA
	Sodium	40300	40000	101	90.0 - 110.0	P	6/7/2006	14:03	060706TJA
	Vanadium	2180	2000	109	90.0 - 110.0	P	6/7/2006	14:03	060706TJA
	Zinc	2140	2000	107	90.0 - 110.0	P	6/7/2006	14:03	060706TJA

METALS
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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Treadwell and Rollo, Inc. **SDG No.:** D0600543

Contract: Presidio **Lab Code:** RDD **Case No.:** **SAS No.:**

Initial Calibration Source: CPI

Continuing Calibration Source: CPI

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV2									
	Aluminum	7980	8000	100	90.0 - 110.0	P	6/7/2006	14:58	060706TJA
	Barium	2060	2000	103	90.0 - 110.0	P	6/7/2006	14:58	060706TJA
	Calcium	40800	40000	102	90.0 - 110.0	P	6/7/2006	14:58	060706TJA
	Chromium	2030	2000	102	90.0 - 110.0	P	6/7/2006	14:58	060706TJA
	Iron	41200	40000	103	90.0 - 110.0	P	6/7/2006	14:58	060706TJA
	Magnesium	38900	40000	97	90.0 - 110.0	P	6/7/2006	14:58	060706TJA
	Manganese	2020	2000	101	90.0 - 110.0	P	6/7/2006	14:58	060706TJA
	Potassium	18700	20000	94	90.0 - 110.0	P	6/7/2006	14:58	060706TJA
	Sodium	37500	40000	94	90.0 - 110.0	P	6/7/2006	14:58	060706TJA
	Vanadium	2070	2000	104	90.0 - 110.0	P	6/7/2006	14:58	060706TJA
	Zinc	2060	2000	103	90.0 - 110.0	P	6/7/2006	14:58	060706TJA
CCV3									
	Aluminum	8150	8000	102	90.0 - 110.0	P	6/7/2006	15:15	060706TJA
	Barium	2110	2000	106	90.0 - 110.0	P	6/7/2006	15:15	060706TJA
	Calcium	41800	40000	104	90.0 - 110.0	P	6/7/2006	15:15	060706TJA
	Chromium	2080	2000	104	90.0 - 110.0	P	6/7/2006	15:15	060706TJA
	Iron	42200	40000	106	90.0 - 110.0	P	6/7/2006	15:15	060706TJA
	Magnesium	39800	40000	100	90.0 - 110.0	P	6/7/2006	15:15	060706TJA
	Manganese	2070	2000	104	90.0 - 110.0	P	6/7/2006	15:15	060706TJA
	Potassium	19600	20000	98	90.0 - 110.0	P	6/7/2006	15:15	060706TJA
	Sodium	38300	40000	96	90.0 - 110.0	P	6/7/2006	15:15	060706TJA
	Vanadium	2130	2000	106	90.0 - 110.0	P	6/7/2006	15:15	060706TJA
	Zinc	2100	2000	105	90.0 - 110.0	P	6/7/2006	15:15	060706TJA
ICV1									
	Mercury	4.9	5.0	98	80.0 - 120.0	CV	5/30/2006	20:03	V060530
CCV1									
	Mercury	4.0	4.0	100	80.0 - 120.0	CV	5/30/2006	20:33	V060530
CCV2									
	Mercury	4.2	4.0	105	80.0 - 120.0	CV	5/30/2006	20:59	V060530

METALS

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Treadwell and Rollo, Inc. **SDG No.:** D0600543

Contract: Presidio **Lab Code:** RDD **Case No.:** **SAS No.:**

Initial Calibration Source: CPI

Continuing Calibration Source: CPI

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV3									
	Mercury	4.2	4.0	105	80.0 - 120.0	CV	5/30/2006	21:25	V060530
CCV4									
	Mercury	4.4	4.0	110	80.0 - 120.0	CV	5/30/2006	21:53	V060530
ICV1									
	Selenium	20.68	20.0	103	90.0 - 110.0	F	6/19/2006	21:36	Y060619
CCV1									
	Selenium	29.83	30.0	99	80.0 - 120.0	F	6/19/2006	22:30	Y060619

METALS

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Treadwell and Rollo, Inc. **SDG No.:** D0600543

Contract: Presidio **Lab Code:** RDD **Case No.:** **SAS No.:**

Initial Calibration Source: IV

Continuing Calibration Source: IV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1									
	Arsenic	10.1	10.0	101	90.0 - 110.0	MS	6/8/2006	10:15	060806
	Lead	9.7	10.0	97	90.0 - 110.0	MS	6/8/2006	10:15	060806
	Cadmium	10.0	10.0	100	90.0 - 110.0	MS	6/8/2006	10:15	060806
	Cobalt	9.8	10.0	98	90.0 - 110.0	MS	6/8/2006	10:15	060806
	Copper	10.0	10.0	100	90.0 - 110.0	MS	6/8/2006	10:15	060806
	Nickel	9.8	10.0	98	90.0 - 110.0	MS	6/8/2006	10:15	060806
	Thallium	9.5	10.0	95	90.0 - 110.0	MS	6/8/2006	10:15	060806
	Beryllium	10.6	10.0	106	90.0 - 110.0	MS	6/8/2006	10:15	060806
CCV1									
	Arsenic	19.9	20.0	100	90.0 - 110.0	MS	6/8/2006	11:25	060806
	Lead	19.7	20.0	98	90.0 - 110.0	MS	6/8/2006	11:25	060806
	Cadmium	19.9	20.0	100	90.0 - 110.0	MS	6/8/2006	11:25	060806
	Cobalt	19.3	20.0	96	90.0 - 110.0	MS	6/8/2006	11:25	060806
	Copper	19.3	20.0	96	90.0 - 110.0	MS	6/8/2006	11:25	060806
	Nickel	19.3	20.0	96	90.0 - 110.0	MS	6/8/2006	11:25	060806
	Thallium	19.5	20.0	98	90.0 - 110.0	MS	6/8/2006	11:25	060806
	Beryllium	19.5	20.0	98	90.0 - 110.0	MS	6/8/2006	11:25	060806
CCV2									
	Arsenic	19.9	20.0	100	90.0 - 110.0	MS	6/8/2006	12:07	060806
	Lead	20.4	20.0	102	90.0 - 110.0	MS	6/8/2006	12:07	060806
	Cadmium	19.7	20.0	98	90.0 - 110.0	MS	6/8/2006	12:07	060806
	Cobalt	19.4	20.0	97	90.0 - 110.0	MS	6/8/2006	12:07	060806
	Copper	19.8	20.0	99	90.0 - 110.0	MS	6/8/2006	12:07	060806
	Nickel	19.5	20.0	98	90.0 - 110.0	MS	6/8/2006	12:07	060806
	Thallium	20.0	20.0	100	90.0 - 110.0	MS	6/8/2006	12:07	060806
	Beryllium	20.9	20.0	104	90.0 - 110.0	MS	6/8/2006	12:07	060806

METALS

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Treadwell and Rollo, Inc. **SDG No.:** D0600543

Contract: Presidio **Lab Code:** RDD **Case No.:** **SAS No.:**

Initial Calibration Source: IV

Continuing Calibration Source: IV

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV3									
	Arsenic	19.9	20.0	100	90.0 - 110.0	MS	6/8/2006	12:35	060806
	Lead	20.2	20.0	101	90.0 - 110.0	MS	6/8/2006	12:35	060806
	Cadmium	19.7	20.0	98	90.0 - 110.0	MS	6/8/2006	12:35	060806
	Cobalt	19.3	20.0	96	90.0 - 110.0	MS	6/8/2006	12:35	060806
	Copper	19.2	20.0	96	90.0 - 110.0	MS	6/8/2006	12:35	060806
	Nickel	19.3	20.0	96	90.0 - 110.0	MS	6/8/2006	12:35	060806
	Thallium	19.7	20.0	98	90.0 - 110.0	MS	6/8/2006	12:35	060806
	Beryllium	20.5	20.0	102	90.0 - 110.0	MS	6/8/2006	12:35	060806
ICV1									
	Beryllium	10.4	10.0	104	90.0 - 110.0	MS	6/8/2006	14:10	060806A
CCV1									
	Beryllium	19.8	20.0	99	90.0 - 110.0	MS	6/8/2006	15:05	060806A
CCV2									
	Beryllium	20.0	20.0	100	90.0 - 110.0	MS	6/8/2006	15:27	060806A
ICV1									
	Antimony	10.0	10.0	100	90.0 - 110.0	MS	6/14/2006	15:23	061406A
	Silver	10.0	10.0	100	90.0 - 110.0	MS	6/14/2006	15:23	061406A
CCV1									
	Antimony	20.3	20.0	102	90.0 - 110.0	MS	6/14/2006	16:14	061406A
	Silver	19.9	20.0	100	90.0 - 110.0	MS	6/14/2006	16:14	061406A
CCV2									
	Antimony	20.1	20.0	100	90.0 - 110.0	MS	6/14/2006	16:41	061406A
	Silver	20.6	20.0	103	90.0 - 110.0	MS	6/14/2006	16:41	061406A

METALS
- 2b -
CRDL STANDARD FOR AA & ICP

Client: Treadwell and Rollo, Inc. **SDG No.:** D0600543

Contract: Presidio **Lab Code:** RDD **Case No.:** **SAS No.:**

AA CRDL Standard Source:

ICP CRDL Standard Source: CPI

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Advisory Limits (%R)	M	Analysis Date	Analysis Time	Run Number
RLS									
	Aluminum	73	60	122	50 - 150	P	6/7/2006	13:18	060706TJA
	Calcium	530	500	106	50 - 150	P	6/7/2006	13:18	060706TJA
	Chromium	11	10	110	50 - 150	P	6/7/2006	13:18	060706TJA
	Iron	110	100	110	50 - 150	P	6/7/2006	13:18	060706TJA
	Magnesium	200	200	100	50 - 150	P	6/7/2006	13:18	060706TJA
	Manganese	5	5	100	50 - 150	P	6/7/2006	13:18	060706TJA
	Potassium	730	1000	73	50 - 150	P	6/7/2006	13:18	060706TJA
	Sodium	520	500	104	50 - 150	P	6/7/2006	13:18	060706TJA
	Vanadium	10	10	100	50 - 150	P	6/7/2006	13:18	060706TJA
	Zinc	21	20	105	50 - 150	P	6/7/2006	13:18	060706TJA
RLS									
	Barium	28	25	112	50 - 150	P	6/7/2006	13:21	060706TJA

METALS
- 2b -
CRDL STANDARD FOR AA & ICP

Client: Treadwell and Rollo, Inc. **SDG No.:** D0600543

Contract: Presidio **Lab Code:** RDD **Case No.:** **SAS No.:**

AA CRDL Standard Source:

ICP CRDL Standard Source: Spex

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Advisory Limits (%R)	M	Analysis Date	Analysis Time	Run Number
RLS									
	Arsenic	0.42	0.5	84	50 - 150	MS	6/8/2006	10:32	060806
	Lead	0.48	0.5	96	50 - 150	MS	6/8/2006	10:32	060806
	Cadmium	0.10	0.1	100	50 - 150	MS	6/8/2006	10:32	060806
	Cobalt	0.47	0.5	94	50 - 150	MS	6/8/2006	10:32	060806
	Copper	0.56	0.5	112	50 - 150	MS	6/8/2006	10:32	060806
	Nickel	0.52	0.5	104	50 - 150	MS	6/8/2006	10:32	060806
	Thallium	0.09	0.1	90	50 - 150	MS	6/8/2006	10:32	060806
	Beryllium	0.10	0.1	100	50 - 150	MS	6/8/2006	10:32	060806
RLS									
	Beryllium	0.11	0.1	110	50 - 150	MS	6/8/2006	14:22	060806A
RLS									
	Antimony	0.20	0.2	100	50 - 150	MS	6/14/2006	15:36	061406A
	Silver	0.50	0.5	100	50 - 150	MS	6/14/2006	15:36	061406A

METALS

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Treadwell and Rollo, Inc. **SDG No.:** D0600543

Contract: Presidio **Lab Code:** RDD **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
ICB1										
	Aluminum	100.0	+/-100.0	U	100.0	100.0	P	6/7/2006	13:16	060706TJA
	Barium	10.0	+/-10.0	U	10.0	10.0	P	6/7/2006	13:16	060706TJA
	Calcium	500.0	+/-500.0	U	500.0	500.0	P	6/7/2006	13:16	060706TJA
	Chromium	10.0	+/-10.0	U	10.0	10.0	P	6/7/2006	13:16	060706TJA
	Iron	100.0	+/-100.0	U	100.0	100.0	P	6/7/2006	13:16	060706TJA
	Magnesium	500.0	+/-500.0	U	500.0	500.0	P	6/7/2006	13:16	060706TJA
	Manganese	10.0	+/-10.0	U	10.0	10.0	P	6/7/2006	13:16	060706TJA
	Potassium	5000.0	+/-5000.0	U	5000.0	5000.0	P	6/7/2006	13:16	060706TJA
	Sodium	5000.0	+/-5000.0	U	5000.0	5000.0	P	6/7/2006	13:16	060706TJA
	Vanadium	10.0	+/-10.0	U	10.0	10.0	P	6/7/2006	13:16	060706TJA
	Zinc	20.0	+/-20.0	U	20.0	20.0	P	6/7/2006	13:16	060706TJA
CCB1										
	Aluminum	100.0	+/-100.0	U	100.0	100.0	P	6/7/2006	14:10	060706TJA
	Barium	10.0	+/-10.0	U	10.0	10.0	P	6/7/2006	14:10	060706TJA
	Calcium	500.0	+/-500.0	U	500.0	500.0	P	6/7/2006	14:10	060706TJA
	Chromium	10.0	+/-10.0	U	10.0	10.0	P	6/7/2006	14:10	060706TJA
	Iron	100.0	+/-100.0	U	100.0	100.0	P	6/7/2006	14:10	060706TJA
	Magnesium	500.0	+/-500.0	U	500.0	500.0	P	6/7/2006	14:10	060706TJA
	Manganese	10.0	+/-10.0	U	10.0	10.0	P	6/7/2006	14:10	060706TJA
	Potassium	5000.0	+/-5000.0	U	5000.0	5000.0	P	6/7/2006	14:10	060706TJA
	Sodium	5000.0	+/-5000.0	U	5000.0	5000.0	P	6/7/2006	14:10	060706TJA
	Vanadium	10.0	+/-10.0	U	10.0	10.0	P	6/7/2006	14:10	060706TJA
	Zinc	20.0	+/-20.0	U	20.0	20.0	P	6/7/2006	14:10	060706TJA

METALS

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Treadwell and Rollo, Inc. **SDG No.:** D0600543

Contract: Presidio **Lab Code:** RDD **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
CCB2										
	Aluminum	100.0	+/-100.0	U	100.0	100.0	P	6/7/2006	15:04	060706TJA
	Barium	10.0	+/-10.0	U	10.0	10.0	P	6/7/2006	15:04	060706TJA
	Calcium	500.0	+/-500.0	U	500.0	500.0	P	6/7/2006	15:04	060706TJA
	Chromium	10.0	+/-10.0	U	10.0	10.0	P	6/7/2006	15:04	060706TJA
	Iron	100.0	+/-100.0	U	100.0	100.0	P	6/7/2006	15:04	060706TJA
	Magnesium	500.0	+/-500.0	U	500.0	500.0	P	6/7/2006	15:04	060706TJA
	Manganese	10.0	+/-10.0	U	10.0	10.0	P	6/7/2006	15:04	060706TJA
	Potassium	5000.0	+/-5000.0	U	5000.0	5000.0	P	6/7/2006	15:04	060706TJA
	Sodium	5000.0	+/-5000.0	U	5000.0	5000.0	P	6/7/2006	15:04	060706TJA
	Vanadium	10.0	+/-10.0	U	10.0	10.0	P	6/7/2006	15:04	060706TJA
	Zinc	20.0	+/-20.0	U	20.0	20.0	P	6/7/2006	15:04	060706TJA
CCB3										
	Aluminum	100.0	+/-100.0	U	100.0	100.0	P	6/7/2006	15:21	060706TJA
	Barium	10.0	+/-10.0	U	10.0	10.0	P	6/7/2006	15:21	060706TJA
	Calcium	500.0	+/-500.0	U	500.0	500.0	P	6/7/2006	15:21	060706TJA
	Chromium	10.0	+/-10.0	U	10.0	10.0	P	6/7/2006	15:21	060706TJA
	Iron	100.0	+/-100.0	U	100.0	100.0	P	6/7/2006	15:21	060706TJA
	Magnesium	500.0	+/-500.0	U	500.0	500.0	P	6/7/2006	15:21	060706TJA
	Manganese	10.0	+/-10.0	U	10.0	10.0	P	6/7/2006	15:21	060706TJA
	Potassium	5000.0	+/-5000.0	U	5000.0	5000.0	P	6/7/2006	15:21	060706TJA
	Sodium	5000.0	+/-5000.0	U	5000.0	5000.0	P	6/7/2006	15:21	060706TJA
	Vanadium	10.0	+/-10.0	U	10.0	10.0	P	6/7/2006	15:21	060706TJA
	Zinc	20.0	+/-20.0	U	20.0	20.0	P	6/7/2006	15:21	060706TJA
ICB1										
	Arsenic	2.00	+/-2.00	U	2.00	2.00	MS	6/8/2006	10:26	060806
	Lead	1.00	+/-1.00	U	1.00	1.00	MS	6/8/2006	10:26	060806
	Cadmium	1.00	+/-1.00	U	1.00	1.00	MS	6/8/2006	10:26	060806
	Cobalt	1.00	+/-1.00	U	1.00	1.00	MS	6/8/2006	10:26	060806
	Copper	2.00	+/-2.00	U	2.00	2.00	MS	6/8/2006	10:26	060806
	Nickel	2.00	+/-2.00	U	2.00	2.00	MS	6/8/2006	10:26	060806
	Thallium	1.00	+/-1.00	U	1.00	1.00	MS	6/8/2006	10:26	060806
	Beryllium	1.00	+/-1.00	U	1.00	1.00	MS	6/8/2006	10:26	060806

METALS

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Treadwell and Rollo, Inc. **SDG No.:** D0600543

Contract: Presidio **Lab Code:** RDD **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
CCB1										
	Arsenic	2.00	+/-2.00	U	2.00	2.00	MS	6/8/2006	11:34	060806
	Lead	1.00	+/-1.00	U	1.00	1.00	MS	6/8/2006	11:34	060806
	Cadmium	1.00	+/-1.00	U	1.00	1.00	MS	6/8/2006	11:34	060806
	Cobalt	1.00	+/-1.00	U	1.00	1.00	MS	6/8/2006	11:34	060806
	Copper	2.00	+/-2.00	U	2.00	2.00	MS	6/8/2006	11:34	060806
	Nickel	2.00	+/-2.00	U	2.00	2.00	MS	6/8/2006	11:34	060806
	Thallium	1.00	+/-1.00	U	1.00	1.00	MS	6/8/2006	11:34	060806
	Beryllium	1.00	+/-1.00	U	1.00	1.00	MS	6/8/2006	11:34	060806
CCB2										
	Arsenic	2.00	+/-2.00	U	2.00	2.00	MS	6/8/2006	12:16	060806
	Lead	1.00	+/-1.00	U	1.00	1.00	MS	6/8/2006	12:16	060806
	Cadmium	1.00	+/-1.00	U	1.00	1.00	MS	6/8/2006	12:16	060806
	Cobalt	1.00	+/-1.00	U	1.00	1.00	MS	6/8/2006	12:16	060806
	Copper	2.00	+/-2.00	U	2.00	2.00	MS	6/8/2006	12:16	060806
	Nickel	2.00	+/-2.00	U	2.00	2.00	MS	6/8/2006	12:16	060806
	Thallium	1.00	+/-1.00	U	1.00	1.00	MS	6/8/2006	12:16	060806
	Beryllium	1.00	+/-1.00	U	1.00	1.00	MS	6/8/2006	12:16	060806
CCB3										
	Arsenic	2.00	+/-2.00	U	2.00	2.00	MS	6/8/2006	12:45	060806
	Lead	1.00	+/-1.00	U	1.00	1.00	MS	6/8/2006	12:45	060806
	Cadmium	1.00	+/-1.00	U	1.00	1.00	MS	6/8/2006	12:45	060806
	Cobalt	1.00	+/-1.00	U	1.00	1.00	MS	6/8/2006	12:45	060806
	Copper	2.00	+/-2.00	U	2.00	2.00	MS	6/8/2006	12:45	060806
	Nickel	2.00	+/-2.00	U	2.00	2.00	MS	6/8/2006	12:45	060806
	Thallium	1.00	+/-1.00	U	1.00	1.00	MS	6/8/2006	12:45	060806
	Beryllium	1.00	+/-1.00	U	1.00	1.00	MS	6/8/2006	12:45	060806
ICB1										
	Beryllium	1.00	+/-1.00	U	1.00	1.00	MS	6/8/2006	14:19	060806A
CCB1										
	Beryllium	1.00	+/-1.00	U	1.00	1.00	MS	6/8/2006	15:12	060806A

METALS
- 3a -
INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Treadwell and Rollo, Inc. **SDG No.:** D0600543

Contract: Presidio **Lab Code:** RDD **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
CCB2										
	Beryllium	1.00	+/-1.00	U	1.00	1.00	MS	6/8/2006	15:34	060806A
ICB1										
	Antimony	2.00	+/-2.00	U	2.00	2.00	MS	6/14/2006	15:32	061406A
	Silver	1.00	+/-1.00	U	1.00	1.00	MS	6/14/2006	15:32	061406A
CCB1										
	Antimony	2.00	+/-2.00	U	2.00	2.00	MS	6/14/2006	16:21	061406A
	Silver	1.00	+/-1.00	U	1.00	1.00	MS	6/14/2006	16:21	061406A
CCB2										
	Antimony	2.00	+/-2.00	U	2.00	2.00	MS	6/14/2006	16:48	061406A
	Silver	1.00	+/-1.00	U	1.00	1.00	MS	6/14/2006	16:48	061406A
ICB1										
	Mercury	0.20	+/-0.20	U	0.20	0.20	CV	5/30/2006	20:08	V060530
CCB1										
	Mercury	0.20	+/-0.20	U	0.20	0.20	CV	5/30/2006	20:35	V060530
CCB2										
	Mercury	0.20	+/-0.20	U	0.20	0.20	CV	5/30/2006	21:01	V060530
CCB3										
	Mercury	0.20	+/-0.20	U	0.20	0.20	CV	5/30/2006	21:27	V060530
CCB4										
	Mercury	0.20	+/-0.20	U	0.20	0.20	CV	5/30/2006	21:56	V060530
ICB1										
	Selenium	2.0	+/-2.0	U	2.0	2.0	F	6/19/2006	21:42	Y060619

METALS

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Treadwell and Rollo, Inc. **SDG No.:** D0600543

Contract: Presidio **Lab Code:** RDD **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
CCB1										
	Selenium	2.0	+/-2.0	U	2.0	2.0	F	6/19/2006	22:35	Y060619

METALS

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INTERFERENCE CHECK SAMPLE

Client: Treadwell and Rollo, Inc. **SDG No.:** D0600543

Contract: Presidio **Lab Code:** RDD **Case No.:** **SAS No.:**

ICS Source: CPI **Instrument ID:** TJA61

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window	Analysis Date	Analysis Time	Run Number
ICS-A1								
	Aluminum	534627	500000	107	80 - 120%	6/7/2006	13:23	060706TJA
	Barium	1				6/7/2006	13:23	060706TJA
	Calcium	497779	500000	100	80 - 120%	6/7/2006	13:23	060706TJA
	Chromium	6				6/7/2006	13:23	060706TJA
	Iron	197168	200000	99	80 - 120%	6/7/2006	13:23	060706TJA
	Magnesium	530698	500000	106	80 - 120%	6/7/2006	13:23	060706TJA
	Manganese	2				6/7/2006	13:23	060706TJA
	Potassium	-403				6/7/2006	13:23	060706TJA
	Sodium	9				6/7/2006	13:23	060706TJA
	Vanadium	25				6/7/2006	13:23	060706TJA
	Zinc	7				6/7/2006	13:23	060706TJA
ICS-AB1								
	Aluminum	536887	502000	107	80 - 120%	6/7/2006	13:26	060706TJA
	Barium	1028	1000	103	80 - 120%	6/7/2006	13:26	060706TJA
	Calcium	496890	500200	99	80 - 120%	6/7/2006	13:26	060706TJA
	Chromium	989	1000	99	80 - 120%	6/7/2006	13:26	060706TJA
	Iron	197313	200200	99	80 - 120%	6/7/2006	13:26	060706TJA
	Magnesium	530577	500200	106	80 - 120%	6/7/2006	13:26	060706TJA
	Manganese	993	1000	99	80 - 120%	6/7/2006	13:26	060706TJA
	Potassium	-55				6/7/2006	13:26	060706TJA
	Sodium	2220	2000	111	80 - 120%	6/7/2006	13:26	060706TJA
	Vanadium	1055	1000	106	80 - 120%	6/7/2006	13:26	060706TJA
	Zinc	2074	2000	104	80 - 120%	6/7/2006	13:26	060706TJA

METALS
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INTERFERENCE CHECK SAMPLE

Client: Treadwell and Rollo, Inc. **SDG No.:** D0600543

Contract: Presidio **Lab Code:** RDD **Case No.:** **SAS No.:**

ICS Source: IV **Instrument ID:** ELAN 9000

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window	Analysis Date	Analysis Time	Run Number
ICSA								
	Arsenic	0.3				6/8/2006	10:40	060806
	Lead	0.1				6/8/2006	10:40	060806
	Cadmium	0.5				6/8/2006	10:40	060806
	Cobalt	0.0				6/8/2006	10:40	060806
	Copper	0.4				6/8/2006	10:40	060806
	Nickel	0.3				6/8/2006	10:40	060806
	Thallium	0.0				6/8/2006	10:40	060806
	Beryllium	0.0				6/8/2006	10:40	060806
ICSAB								
	Arsenic	20.9	20.0	104	80 - 120%	6/8/2006	10:48	060806
	Lead	20.4	20.0	102	80 - 120%	6/8/2006	10:48	060806
	Cadmium	20.8	20.0	104	80 - 120%	6/8/2006	10:48	060806
	Cobalt	20.0	20.0	100	80 - 120%	6/8/2006	10:48	060806
	Copper	19.9	20.0	100	80 - 120%	6/8/2006	10:48	060806
	Nickel	20.1	20.0	100	80 - 120%	6/8/2006	10:48	060806
	Thallium	19.9	20.0	100	80 - 120%	6/8/2006	10:48	060806
	Beryllium	19.8	20.0	99	80 - 120%	6/8/2006	10:48	060806
ICSA								
	Beryllium	0.0				6/8/2006	14:28	060806A
ICSAB								
	Beryllium	20.7	20.0	104	80 - 120%	6/8/2006	14:36	060806A
ICSA								
	Antimony	0.1				6/14/2006	15:42	061406A
	Silver	0.0				6/14/2006	15:42	061406A
ICSAB								
	Antimony	21.8	20.0	109	80 - 120%	6/14/2006	15:47	061406A
	Silver	20.5	20.0	102	80 - 120%	6/14/2006	15:47	061406A

METALS
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SAMPLE PREPARATION SUMMARY

Client: Treadwell and Rollo, Inc.
SDG No.: D0600543
Contract: Presidio
Lab Code: RDD
Method: P
Case No.:
SAS No.:

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	ICPW1						
PBW	PBW	MB	WATER	6/2/06	50.0	50.0	
LCSW	LCSW	LCS	WATER	6/2/06	50.0	50.0	
LCSWD	LCSWD	LCSD	WATER	6/2/06	50.0	50.0	
D0600543-001	1213GW101CL	SAM	WATER	6/2/06	50.0	50.0	
D0600543-002	1349MW100CL	SAM	WATER	6/2/06	50.0	50.0	
D0600543-003	1065MW9ACL	SAM	WATER	6/2/06	50.0	50.0	
D0600543-004	BHWGW01CL	SAM	WATER	6/2/06	50.0	50.0	

METALS
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Treadwell and Rollo, Inc.

SDG No.: D0600543

Contract: Presidio **Lab Code:** RDD

Method: MS

Case No.: _____ **SAS No.:** _____

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	ICPMSW1						
PBW	PBW	MB	WATER	6/2/06	50.0	50.0	
LCSW	LCSW	LCS	WATER	6/2/06	50.0	50.0	
LCSWD	LCSWD	LCSD	WATER	6/2/06	50.0	50.0	
D0600543-001	1213GW101CL	SAM	WATER	6/2/06	50.0	50.0	
D0600543-002	1349MW100CL	SAM	WATER	6/2/06	50.0	50.0	
D0600543-003	1065MW9ACL	SAM	WATER	6/2/06	50.0	50.0	
D0600543-004	BHWGW01CL	SAM	WATER	6/2/06	50.0	50.0	

METALS
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Treadwell and Rollo, Inc.

SDG No.: D0600543

Contract: Presidio **Lab Code:** RDD

Method: F

Case No.: **SAS No.:**

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	GFAAW1						
PBW	PBW	MB	WATER	6/2/06	50.0	50.0	
LCSW	LCSW	LCS	WATER	6/2/06	50.0	50.0	
LCSWD	LCSWD	LCSD	WATER	6/2/06	50.0	50.0	
D0600543-001	1213GW101CL	SAM	WATER	6/2/06	50.0	50.0	
D0600543-002	1349MW100CL	SAM	WATER	6/2/06	50.0	50.0	
D0600543-004	BHWGW01CL	SAM	WATER	6/2/06	50.0	50.0	

METALS
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Treadwell and Rollo, Inc.

SDG No.: D0600543

Contract: Presidio **Lab Code:** RDD

Method: CV

Case No.: _____ **SAS No.:** _____

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	CVAAW1						
PBW	PBW	MB	WATER	5/30/06	20.0	20.0	
LCSW	LCSW	LCS	WATER	5/30/06	20.0	20.0	
LCSWD	LCSWD	LCSD	WATER	5/30/06	20.0	20.0	
D0600543-002	1349MW100CL	SAM	WATER	5/30/06	20.0	20.0	

METALS
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ANALYSIS RUN LOG

Client: Treadwell and Rollo, Inc. Contract: Presidio

Lab Code: RDD Case No.: SAS No.: SDG No.: D0600543

Instrument ID Number: TJA61 Method: P Run Number: 060706TJA

Start Date: 6/7/2006 End Date: 6/7/2006

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CB	1.00	1303		X			X			X	X			X		X	X			X			X		X	X	
STD	1.00	1306		X			X			X	X			X		X	X			X			X		X	X	
ICV1	1.00	1310		X			X			X	X			X		X	X			X			X		X	X	
ICB1	1.00	1316		X			X			X	X			X		X	X			X			X		X	X	
RLS	1.00	1318		X						X	X			X		X	X			X			X		X	X	
RLS	1.00	1321					X																				
ICS-A1	1.00	1323		X			X			X	X			X		X	X			X			X		X	X	
ICS-AB1	1.00	1326		X			X			X	X			X		X	X			X			X		X	X	
CCV1	1.00	1403		X			X			X	X			X		X	X			X			X		X	X	
CCB1	1.00	1410		X			X			X	X			X		X	X			X			X		X	X	
PBW	1.00	1414		X			X			X	X			X		X	X			X			X		X	X	
LCSW	1.00	1418		X			X			X	X			X		X	X			X			X		X	X	
LCSWD	1.00	1423		X			X			X	X			X		X	X			X			X		X	X	
1213GW101CL	1.00	1427		X			X			X	X			X		X	X			X			X		X	X	
1349MW100CL	1.00	1447		X			X			X	X			X		X	X			X			X		X	X	
1065MW9ACL	1.00	1451		X						X	X			X		X	X			X			X			X	
CCV2	1.00	1458		X			X			X	X			X		X	X			X			X		X	X	
CCB2	1.00	1504		X			X			X	X			X		X	X			X			X		X	X	
BHWGW01CL	1.00	1508		X			X			X	X			X		X	X			X			X		X	X	
CCV3	1.00	1515		X			X			X	X			X		X	X			X			X		X	X	
CCB3	1.00	1521		X			X			X	X			X		X	X			X			X		X	X	

METALS
14
ANALYSIS RUN LOG

Client: Treadwell and Rollo, Inc. Contract: Presidio

Lab Code: RDD Case No.: SAS No.: SDG No.: D0600543

Instrument ID Number: ELAN 9000 Method: MS Run Number: 060806

Start Date: 6/8/2006 End Date: 6/8/2006

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
Blank	1.00	1003				X		X	X			X	X		X				X					X			
Standard 1	1.00	1008				X		X	X			X	X		X				X					X			
ICV1	1.00	1015				X		X	X			X	X		X				X					X			
ICB1	1.00	1026				X		X	X			X	X		X				X					X			
RLS	1.00	1032				X		X	X			X	X		X				X					X			
ICSA	1.00	1040				X		X	X			X	X		X				X					X			
ICSAB	1.00	1048				X		X	X			X	X		X				X					X			
PBW	1.00	1106				X		X	X			X	X		X				X					X			
LCSW	1.00	1111				X		X	X			X	X		X				X					X			
LCSWD	1.00	1115				X		X	X			X	X		X				X					X			
CCV1	1.00	1125				X		X	X			X	X		X				X					X			
CCB1	1.00	1134				X		X	X			X	X		X				X					X			
1213GW101CL	1.00	1139				X		X	X			X	X		X				X					X			
1349MW100CL	1.00	1202				X			X			X	X		X				X					X			
CCV2	1.00	1207				X		X	X			X	X		X				X					X			
CCB2	1.00	1216				X		X	X			X	X		X				X					X			
1065MW9ACL	1.00	1221				X			X				X		X				X								
BHWGW01CL	1.00	1226				X		X	X			X	X		X				X					X			
CCV3	1.00	1235				X		X	X			X	X		X				X					X			
CCB3	1.00	1245				X		X	X			X	X		X				X					X			

METALS
14
ANALYSIS RUN LOG

Client: Treadwell and Rollo, Inc. Contract: Presidio

Lab Code: RDD Case No.: SAS No.: SDG No.: D0600543

Instrument ID Number: PE GFAA 5100 Method: F Run Number: Y060619

Start Date: 6/19/2006 End Date: 6/19/2006

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CALIB. BLANK	1.00	1814																			X						
STANDARD 1	1.00	1820																			X						
STANDARD 2	1.00	1825																			X						
STANDARD 3	1.00	1831																			X						
STANDARD 4	1.00	1836																			X						
STANDARD 5	1.00	1842																			X						
ICV1	1.00	2136																			X						
ICB1	1.00	2142																			X						
PBW	1.00	2152																			X						
LCSW	10.00	2158																			X						
LCSWD	10.00	2203																			X						
1213GW101CL	1.00	2209																			X						
1349MW100CL	1.00	2214																			X						
BHWGW01CL	1.00	2224																			X						
CCV1	1.00	2230																			X						
CCB1	1.00	2235																			X						

METALS
14
ANALYSIS RUN LOG

Client: Treadwell and Rollo, Inc. Contract: Presidio

Lab Code: RDD Case No.: SAS No.: SDG No.: D0600543

Instrument ID Number: PE FIMS Method: CV Run Number: V060530

Start Date: 5/30/2006 End Date: 5/30/2006

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CALIB BLANK	1.00	1948																X									
STANDARD 1	1.00	1950																X									
STANDARD 2	1.00	1952																X									
STANDARD 3	1.00	1955																X									
STANDARD 4	1.00	1957																X									
STANDARD 5	1.00	2000																X									
ICV1	1.00	2003																X									
ICB1	1.00	2008																X									
CCV1	1.00	2033																X									
CCB1	1.00	2035																X									
PBW	1.00	2047																X									
LCSW	1.00	2049																X									
LCSWD	1.00	2052																X									
CCV2	1.00	2059																X									
CCB2	1.00	2101																X									
CCV3	1.00	2125																X									
CCB3	1.00	2127																X									
1349MW100CL	1.00	2146																X									
CCV4	1.00	2153																X									
CCB4	1.00	2156																X									

Verification of Instrument Parameters

METALS
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ICP INTERELEMENT CORRECTION FACTORS

Client: Treadwell and Rollo, Inc. SDG No.: D0600543

Contract: Presidio Lab Code: RDD Case No.: SAS No.:

Instrument ID: TJA61 Date: 1/26/2006

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For:				
		Al	Ca	Fe	Mg	Ag
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0005100	0.0000000	-0.0001300	0.0000700	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.68	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	-0.0001600	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0005700	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	-0.0000400	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000200	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	-0.0020800	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	-0.0002300	0.0000100	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000400	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.0000000	-0.0009700	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	-0.0001100	0.0000000	0.0000000
Sodium	330.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0012000	0.0000000	0.0002700	-0.0000500	0.0000000
Tin	189.98	0.0000000	0.0000000	0.0000000	0.0001700	0.0000000
Vanadium	292.40	-0.0000300	0.0000000	-0.0004000	0.0000000	0.0000000
Zinc	213.85	0.0000000	0.0000000	-0.0000400	0.0000300	0.0000000

METALS
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ICP INTERELEMENT CORRECTION FACTORS

Client: Treadwell and Rollo, Inc. SDG No.: D0600543

Contract: Presidio Lab Code: RDD Case No.: _____ SAS No.: _____

Instrument ID: TJA61 Date: 1/26/2006

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For:				
		As	B	Ba	Be	Cd
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0004600	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.68	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0326900	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000800	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0001300	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0002900	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.0000000	0.0000000	-0.0014400	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0008800	0.0000000
Tin	189.98	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METALS
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Treadwell and Rollo, Inc. SDG No.: D0600543

Contract: Presidio Lab Code: RDD Case No.: SAS No.:

Instrument ID: TJA61 Date: 1/26/2006

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Co	Cr	Cu	Mn	Mo
Aluminum	308.22	-0.0009200	0.0000000	0.0000000	0.0014700	0.0130000
Antimony	206.84	-0.0011900	0.0139400	0.0000000	0.0000000	0.0104700
Arsenic	189.04	0.0000000	0.0075900	0.0000000	0.0000000	0.0039900
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.68	0.0016600	0.0000000	0.0000000	0.0000000	-0.0004500
Cadmium	226.50	0.0022100	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0001500	-0.0016400
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0005300
Iron	271.44	0.0000000	0.0000000	0.0000000	-0.0003100	0.0000000
Lead	220.35	0.0004400	-0.0019300	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0032200
Manganese	257.61	0.0000000	0.0001100	0.0000000	0.0000000	-0.0000600
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0002600	0.0000000	0.0000000	0.0000000	-0.0021900
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	-0.0032100	0.0000000	0.0000000	0.0000000	-0.0181500
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0001100	-0.0002500
Sodium	330.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0018800
Thallium	190.86	0.0059300	0.0000000	0.0000000	0.0010300	0.0059800
Tin	189.98	0.0000000	0.0000000	0.0000000	-0.0159500	-0.0005000
Vanadium	292.40	0.0000000	0.0002100	0.0000000	0.0000000	-0.0372200
Zinc	213.85	0.0000000	-0.0005800	0.0033500	0.0000000	-0.0031400

METALS
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Treadwell and Rollo, Inc. SDG No.: D0600543

Contract: Presidio Lab Code: RDD Case No.: SAS No.:

Instrument ID: TJA61 Date: 1/26/2006

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	-0.0052200	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.68	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0006900	0.0000000	-0.0004700	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0002400	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	-0.0010100	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	-0.0001100	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0006000	0.0000000	0.0000000
Tin	189.98	0.0000000	0.0000000	-0.0001500	-0.0033600	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.85	0.0000000	0.0040100	0.0000000	-0.0011200	0.0000000

METALS
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Treadwell and Rollo, Inc. SDG No.: D0600543

Contract: Presidio Lab Code: RDD Case No.: SAS No.:

Instrument ID: TJA61 Date: 1/26/2006

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Si	Sn	Sr	Ti	Tl
Aluminum	308.22	0.0003100	0.0007000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0001000	0.0036200	0.0000000	0.0015800	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.68	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0025400	0.0833000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0017200	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0001700	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0005300
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.98	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METALS
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Treadwell and Rollo, Inc. SDG No.: D0600543

Contract: Presidio Lab Code: RDD Case No.: _____ SAS No.: _____

Instrument ID: TJA61 Date: 1/26/2006

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: V	Zn	La		
Aluminum	308.22	0.0128500	0.0000000	0.0000000		
Antimony	206.84	0.0005500	-0.0010100	0.0000000		
Arsenic	189.04	0.0004100	0.0000000	0.0000000		
Barium	493.41	0.0000000	0.0000000	0.0000000		
Beryllium	313.04	0.0037000	0.0000000	0.0000000		
Boron	249.68	0.0000000	0.0000000	0.0000000		
Cadmium	226.50	0.0000000	0.0000000	0.0000000		
Calcium	317.93	0.0050600	0.0000000	0.0000000		
Chromium	267.72	0.0003100	0.0000000	0.0000000		
Cobalt	228.62	0.0000000	0.0000000	0.0000000		
Copper	324.75	0.0000000	0.0000000	0.0000000		
Iron	271.44	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	0.0000000	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Molybdenum	202.03	0.0000000	0.0000800	0.0000000		
Nickel	231.60	-0.0002200	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.03	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	0.0000000	0.0000000		
Sodium	330.22	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0000000	0.0000000		
Tin	189.98	0.0000000	0.0000000	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	213.85	0.0000000	0.0000000	0.0000000		

METALS

- 12 -
LINEAR RANGES

Client: Treadwell and Rollo, Inc. **SDG No.:** D0600543

Contract: Presidio **Lab Code:** RDD **Case No.:** **SAS No.:**

Instrument ID: TJA61 **Date:** 1/27/2006

Analyte	Integration Time (sec)	LDR ug/L
Aluminum	10.00	1000000
Barium	10.00	100000
Calcium	10.00	1000000
Chromium	10.00	100000
Iron	10.00	500000
Magnesium	10.00	1000000
Manganese	10.00	100000
Potassium	10.00	1000000
Sodium	10.00	1000000
Vanadium	10.00	10000
Zinc	10.00	100000

METALS

- 12 -

LINEAR RANGES

Client: Treadwell and Rollo, Inc. **SDG No.:** D0600543

Contract: Presidio **Lab Code:** RDD **Case No.:** **SAS No.:**

Instrument ID: ELAN 9000 **Date:** 10/7/2005

Analyte	Integration Time (sec)	LDR ug/L
Antimony	10.00	200
Arsenic	10.00	1000
Lead	10.00	1000
Cadmium	10.00	1000
Cobalt	10.00	1000
Copper	10.00	1000
Nickel	10.00	1000
Silver	10.00	1000
Thallium	10.00	1000
Beryllium	10.00	1000

GC TPH DIESEL/MOTOROIL

COLUMBIA ANALYTICAL SERVICES/REDDING

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543

Cover Page - Analysis Data Package
Diesel Range Organics / Motor Oil Range Organics

Sample Name	Lab Code	Date Collected	Date Received
1213GW101CL	D0600543-001	05/24/2006	05/26/2006
1349MW100CL	D0600543-002	05/24/2006	05/26/2006
1065MW9ACL	D0600543-003	05/24/2006	05/26/2006

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Wida Ang
Date: 6/13/06

Name: WIDA ANG
Title: Organic Manager

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: 05/24/2006
Date Received: 05/26/2006

Diesel Range Organics / Motor Oil Range Organics

Sample Name: 1213GW101CL
Lab Code: D0600543-001
Extraction SW3510
Analysis Method: SW8015

Units: mg/L (ppm)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
TPH-Diesel	ND	U	0.50	1	05/31/2006	06/10/2006	DWB10531	
Motor Oil	ND	U	1.0	1	05/31/2006	06/10/2006	DWB10531	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	93	58-111	06/10/2006	
Triacontane - SS	93	54-109	06/10/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: 05/24/2006
Date Received: 05/26/2006

Diesel Range Organics / Motor Oil Range Organics

Sample Name: 1349MW100CL
Lab Code: D0600543-002

Units: mg/L (ppm)
Basis: NA

Extraction SW3510
Analysis Method: SW8015

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
TPH-Diesel	**5.4**		1.0	2	05/31/2006	06/11/2006	DWB10531	
Motor Oil	ND	U	2.1	2	05/31/2006	06/11/2006	DWB10531	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	83	58-111	06/11/2006	
Triacontane - SS	84	54-109	06/11/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: 05/24/2006
Date Received: 05/26/2006

Diesel Range Organics / Motor Oil Range Organics

Sample Name: 1065MW9ACL
Lab Code: D0600543-003
Extraction SW3510
Analysis Method: SW8015

Units: mg/L (ppm)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
TPH-Diesel	ND	U	0.53	1	05/31/2006	06/10/2006	DWB10531	
Motor Oil	ND	U	1.0	1	05/31/2006	06/10/2006	DWB10531	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	60	58-111	06/10/2006	
Triacontane - SS	61	54-109	06/10/2006	

Comments: _____

QC Summary

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: NA
Date Received: NA

Diesel Range Organics / Motor Oil Range Organics

Sample Name: Method Blank
Lab Code: DWB10531
Extraction SW3510
Analysis Method: SW8015

Units: mg/L (ppm)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
TPH-Diesel	ND	U	0.50	1	05/31/2006	06/10/2006	DWB10531	
Motor Oil	ND	U	1.0	1	05/31/2006	06/10/2006	DWB10531	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	75	58-111	06/10/2006	
Triacontane - SS	76	54-109	06/10/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543

Surrogate Recovery Summary
Diesel Range Organics / Motor Oil Range Organics

Prep Method: SW3510
Analysis Method: SW8015

Units: Percent

Sample Name	Lab Code	Q	S1	S2
Method Blank	DWB10531		75	76
Laboratory Control Sample	DWB10531LCS		93	95
Laboratory Control Sample Duplicate	DWB10531LCSD		82	83
1213GW101CL	D0600543-001		93	93
1065MW9ACL	D0600543-003		60	61
1349MW100CL	D0600543-002		83	84

Surrogate Recovery Control Limits (%)

S1:	Octacosane - SS	58-111
S2:	Triacontane - SS	54-109

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	Treadwell and Rollo, Inc.	**Service Request:**	D0600543
Project:	Presidio	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	05/31/2006
		Date Analyzed:	06/10/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Diesel Range Organics / Motor Oil Range Organics

LCS Sample	Lab Control Sample	**DLCS Sample**	Lab Control Sample Duplicate
Lab Code:	DWB10531LCS	**Units:**	mg/L (ppm)
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
TPH-Diesel	SW3510	SW8015	0.50	2.50	2.09	1.82	84	73	64-106	14	
Motor Oil	SW3510	SW8015	1.0	2.50	ND	ND	0	0	64-118	0	*

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client:	Treadwell and Rollo, Inc.	**Service Request:**	D0600543
Project:	Presidio	**Date Extracted:**	05/31/2006
Sample Matrix:	Water	**Date Analyzed:**	06/10/2006
		Time Analyzed:	01:34

Method Blank Summary

Diesel Range Organics / Motor Oil Range Organics

Extaction Method: SW3510 **Extraction Lot:** DWB10531

Analysis Method: SW8015

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	DWB10531LCS	F0609013	06/10/2006	02:20
Laboratory Control Sample Duplicate	DWB10531LCSD	F0609014	06/10/2006	03:05
1213GW101CL	D0600543-001	F0609015	06/10/2006	03:51
1065MW9ACL	D0600543-003	F0609017	06/10/2006	05:22
1349MW100CL	D0600543-002	F0611003	06/11/2006	19:09

Standards data

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
ICAL Date: 05/21/2006

Initial Calibration Summary
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 05/21/2006GCF
Instrument ID: GCF

Level ID	File ID	Level ID	File ID
A	F0521003	F	F0521002
B	F0521004		
C	F0521005		
D	F0521006		
E	F0521007		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
TPH-Diesel	A	0.100	3699	B	0.500	2310	C	1.000	2217	D	2.500	2072	E	4.000	2111
	F	0.050	4877												
Motor Oil	A	0.100	3982	B	0.500	2299	C	1.000	2147	D	2.500	1946	E	4.000	1925
	F	0.050	5505												
Octacosane	A	0.100	2051	B	0.150	2014	C	0.250	2185	D	0.300	1974	E	0.350	2204
	F	0.050	1937												
Triacontane	A	0.100	2057	B	0.150	2015	C	0.250	2183	D	0.300	1976	E	0.350	2162
	F	0.050	1953												

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
ICAL Date: 05/21/2006

Initial Calibration Summary
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 05/21/2006GCF
Instrument ID: GCF
Mean RSD: 44.70

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
TPH-Diesel	TRG	Linear	r	1.000		0.995
Motor Oil	TRG	Linear	r	1.000		0.995
Octacosane	SUR	AverageRF	% RSD	5.4		20
Triacontane	SUR	AverageRF	% RSD	4.7		20

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
Date Analyzed: 05/21/2006

Second Source Calibration Verification
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 05/21/2006GCF
Instrument ID: GCF
File ID: F0521008

Column: DB-5

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
TPH-Diesel	1.000	0.901	2881	1992	NA	-9.9	+/- 15.0	Linear	
Motor Oil	1.000	1.109	2967	2289	NA	10.9	+/- 15.0	Linear	
Octacosane	0.250	0.226	2061	1865	-9.5	NA	+/- 15.0	AverageRF	
Triacontane	0.250	0.229	2058	1886	-8.3	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
Date Analyzed: 06/10/2006

Continuing Calibration Verification Summary
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 05/21/2006GCF
Instrument ID: GCF
File ID: F0609011

Column: DB-5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
TPH-Diesel	2.500	2.315	2881	1963	NA	-7.4	+/- 15.0	Linear	
Motor Oil	2.500	2.807	2967	2187	NA	12.3	+/- 15.0	Linear	
Octacosane	0.300	0.312	2061	2147	4.2	NA	+/- 15.0	AverageRF	
Triacontane	0.300	0.315	2058	2163	5.1	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
Date Analyzed: 06/10/2006

Continuing Calibration Verification Summary
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 05/21/2006GCF
Instrument ID: GCF
File ID: F0609020

Column: DB-5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
TPH-Diesel	1.000	1.028	2881	2255	NA	2.8	+/- 15.0	Linear	
Motor Oil	1.000	1.070	2967	2216	NA	7.0	+/- 15.0	Linear	
Octacosane	0.250	0.256	2061	2113	2.5	NA	+/- 15.0	AverageRF	
Triacontane	0.250	0.258	2058	2127	3.4	NA	+/- 15.0	AverageRF	

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
Date Analyzed: 06/11/2006

Continuing Calibration Verification Summary
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 05/21/2006GCF
Instrument ID: GCF
File ID: F0611002

Column: DB-5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
TPH-Diesel	1.000	0.892	2881	1974	NA	-10.8	+/- 15.0	Linear	
Motor Oil	1.000	0.885	2967	1871	NA	-11.5	+/- 15.0	Linear	
Octacosane	0.250	0.240	2061	1983	-3.8	NA	+/- 15.0	AverageRF	
Triacontane	0.250	0.243	2058	2002	-2.7	NA	+/- 15.0	AverageRF	

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
Date Analyzed: 06/11/2006

Continuing Calibration Verification Summary
Diesel Range Organics / Motor Oil Range Organics

ICAL ID: 05/21/2006GCF
Instrument ID: GCF
File ID: F0611005

Column: DB-5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
TPH-Diesel	2.500	2.219	2881	1884	NA	-11.2	+/- 15.0	Linear	
Motor Oil	2.500	2.621	2967	2047	NA	4.8	+/- 15.0	Linear	
Octacosane	0.300	0.317	2061	2176	5.6	NA	+/- 15.0	AverageRF	
Triacontane	0.300	0.319	2058	2189	6.4	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc. **Service Request:** D0600543
Project: Presidio

Analysis Run Log
Diesel Range Organics / Motor Oil Range Organics

Analysis Method: SW8015 **Instrument ID:** GCF
Column: DB-5

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
F0521002	DSTD6	DSTD6	05/21/2006	13:44		05/21/2006	14:14
F0521003	DSTD1	DSTD1	05/21/2006	14:30		05/21/2006	15:00
F0521004	DSTD2	DSTD2	05/21/2006	15:15		05/21/2006	15:45
F0521005	DSTD3	DSTD3	05/21/2006	16:00		05/21/2006	16:30
F0521006	DSTD4	DSTD4	05/21/2006	16:46		05/21/2006	17:16
F0521007	DSTD5	DSTD5	05/21/2006	17:31		05/21/2006	18:01
F0521008	QC ALT	QC ALT	05/21/2006	18:17		05/21/2006	18:47
F0609011	DSTD4	DSTD4	06/10/2006	00:49		06/10/2006	01:19
F0609012	Method Blank	DWB10531	06/10/2006	01:34		06/10/2006	02:04
F0609013	Laboratory Control Sample	DWB10531LCS	06/10/2006	02:20		06/10/2006	02:50
F0609014	Laboratory Control Sample Duplicate	DWB10531LCSD	06/10/2006	03:05		06/10/2006	03:35
F0609015	1213GW101CL	D0600543-001	06/10/2006	03:51		06/10/2006	04:21
F0609017	1065MW9ACL	D0600543-003	06/10/2006	05:22		06/10/2006	05:52
F0609020	DSTD3	DSTD3	06/10/2006	07:38		06/10/2006	08:08
F0611002	DSTD3	DSTD3	06/11/2006	18:24		06/11/2006	18:54
F0611003	1349MW100CL	D0600543-002	06/11/2006	19:09		06/11/2006	19:39
F0611005	DSTD4	DSTD4	06/11/2006	20:41		06/11/2006	21:11

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Extracted: 05/31/2006

Extraction Prep Log
Diesel Range Organics / Motor Oil Range Organics

Extaction Method: SW3510
Analysis Method: SW8015

Extraction Lot: DWB10531

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	DWB10531	NA	NA	1.000 L	1	NA	
Laboratory Control Sample	DWB10531LCS	NA	NA	1.000 L	1	NA	
Laboratory Control Sample Duplicate	DWB10531LCSD	NA	NA	1.000 L	1	NA	
1213GW101CL	D0600543-001	05/24/2006	05/26/2006	1.050 L	1	NA	
1065MW9ACL	D0600543-003	05/24/2006	05/26/2006	0.950 L	1	NA	
1349MW100CL	D0600543-002	05/24/2006	05/26/2006	0.950 L	1	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543

Holding Time Summary
Diesel Range Organics / Motor Oil Range Organics

Analysis Method: SW8015

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
1213GW101CL	05/24/2006	05/26/2006	05/31/2006	7	7	N/A	N/A	N/A	06/10/2006	40	10	
1349MW100CL	05/24/2006	05/26/2006	05/31/2006	7	7	N/A	N/A	N/A	06/11/2006	40	11	
1065MW9ACL	05/24/2006	05/26/2006	05/31/2006	7	7	N/A	N/A	N/A	06/10/2006	40	10	

Comments:

TPH-Gasoline

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: 05/24/2006
Date Received: 05/26/2006

Gasoline Range Organics

Sample Name: 1213GW101CL
Lab Code: D0600543-001

Units: ug/L (ppb)
Basis: NA

Extraction SW5030
Analysis Method: SW8015

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
TPH-Gasoline (C7C12)	ND	U	50	1	06/01/2006	06/01/2006	NWB10531	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Chlorobenzene	93	65-135	06/01/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: 05/24/2006
Date Received: 05/26/2006

Gasoline Range Organics

Sample Name: 1349MW100CL
Lab Code: D0600543-002
Extraction SW5030
Analysis Method: SW8015

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
TPH-Gasoline (C7C12)	**350**		50	1	06/01/2006	06/01/2006	NWB10531	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Chlorobenzene	96	65-135	06/01/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: 05/24/2006
Date Received: 05/26/2006

Gasoline Range Organics

Sample Name: 1065MW9ACL
Lab Code: D0600543-003
Extraction SW5030
Analysis Method: SW8015

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
TPH-Gasoline (C7C12)	ND	U	50	1	06/01/2006	06/01/2006	NWB10531	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Chlorobenzene	95	65-135	06/01/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: NA
Date Received: NA

Gasoline Range Organics

Sample Name: Method Blank
Lab Code: NWB10531
Extraction SW5030
Analysis Method: SW8015

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
TPH-Gasoline (C7C12)	ND	U	50	1	05/31/2006	05/31/2006	NWB10531	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Chlorobenzene	92	65-135	05/31/2006	

Comments: _____

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543

Surrogate Recovery Summary
Gasoline Range Organics

Prep Method: SW5030
Analysis Method: SW8015

Units: Percent

Sample Name	Lab Code	Q	S1
Method Blank	NWB10531		92
Laboratory Control Sample	NWB10531LCS		95
Laboratory Control Sample Duplicate	NWB10531LCSD		100
1065MW9ACL	D0600543-003		95
1213GW101CL	D0600543-001		93
1349MW100CL	D0600543-002		96

Surrogate Recovery Control Limits (%)

S1: Chlorobenzene 65-135

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	Treadwell and Rollo, Inc.	**Service Request:**	D0600543
Project:	Presidio	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	05/31/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Gasoline Range Organics

LCS Sample	Lab Control Sample	**DMS Sample**	Lab Control Sample Duplicate
Lab Code:	NWB10531LCS	**Units:**	ug/L (ppb)
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
TPH-Gasoline (C7C12)	SW5030	SW8015	50	2000	2120	2070	106	103	75-125	2	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Extracted: 05/31/2006
Date Analyzed: 05/31/2006
Time Analyzed: 21:22

Method Blank Summary
Gasoline Range Organics

Extaction Method: SW5030
Analysis Method: SW8015

Extraction Lot: NWB10531

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	NWB10531LCS	NF053104P	05/31/2006	21:47
Laboratory Control Sample Duplicate	NWB10531LCSD	NF053105P	05/31/2006	22:12
1065MW9ACL	D0600543-003	NF053118	06/01/2006	03:36
1213GW101CL	D0600543-001	NF053130	06/01/2006	10:39
1349MW100CL	D0600543-002	NF053131	06/01/2006	11:04

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
ICAL Date: 04/14/2006

Initial Calibration Summary
Gasoline Range Organics

ICAL ID: 04/14/2006GCN
Instrument ID: GCN

Column: RTX-1, FID

Level ID	File ID
A	NF041403
B	NF041404
C	NF041405
D	NF041406
E	NF041407

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
TPH-Gasoline (C7C12)	A	50.00	574.7	B	500.0	347.5	C	2000	400.5	D	3000	393.6	E	5000	392.8
Chlorobenzene-ss	A	2.500	85.20	B	25.00	104.0	C	100.0	106.8	D	150.0	108.2	E	250.0	113.3

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
ICAL Date: 04/14/2006

Initial Calibration Summary
Gasoline Range Organics

ICAL ID: 04/14/2006GCN
Instrument ID: GCN
Mean RSD: 20.90

Column: RTX-1, FID

Calibration Evaluation

Analyte Name	Compound Type	Fit Type	Eval.	Eval. Result	Q	Control Criteria
TPH-Gasoline (C7C12)	TRG	Linear	r	1.000		0.995
Chlorobenzene-ss	SUR	AverageRF	% RSD	10.4		20

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
Date Analyzed: 04/14/2006

Second Source Calibration Verification
Gasoline Range Organics

ICAL ID: 04/14/2006GCN
Instrument ID: GCN
File ID: NF041408

Column: RTX-1, FID

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
TPH-Gasoline (C7C12)	2000	1890	421.9	398.6	NA	-5.5	+/- 15.0	Linear	
Chlorobenzene-ss	N/A	N/A	103.5	111.0	0.0	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
Date Analyzed: 05/31/2006

Continuing Calibration Verification Summary
Gasoline Range Organics

ICAL ID: 04/14/2006GCN
Instrument ID: GCN
File ID: NF053102

Column: RTX-1, FID

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
TPH-Gasoline (C7C12)	2000	2115	421.9	415.9	NA	5.8	+/- 15.0	Linear	
Chlorobenzene-ss	100.0	98.19	103.5	101.6	-1.8	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
Date Analyzed: 06/01/2006

Continuing Calibration Verification Summary
Gasoline Range Organics

ICAL ID: 04/14/2006GCN
Instrument ID: GCN
File ID: NF053113

Column: RTX-1, FID

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
TPH-Gasoline (C7C12)	3000	3270	421.9	429.0	NA	9.0	+/- 15.0	Linear	
Chlorobenzene-ss	150.0	150.7	103.5	104.0	0.4	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
Date Analyzed: 06/01/2006

Continuing Calibration Verification Summary
Gasoline Range Organics

ICAL ID: 04/14/2006GCN
Instrument ID: GCN
File ID: NF053124

Column: RTX-1, FID

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
TPH-Gasoline (C7C12)	2000	1986	421.9	390.4	NA	-0.7	+/- 15.0	Linear	
Chlorobenzene-ss	100.0	100.7	103.5	104.3	0.7	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
Date Analyzed: 06/01/2006

Continuing Calibration Verification Summary
Gasoline Range Organics

ICAL ID: 04/14/2006GCN
Instrument ID: GCN
File ID: NF053132

Column: RTX-1, FID

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
TPH-Gasoline (C7C12)	2000	2128	421.9	418.4	NA	6.4	+/- 15.0	Linear	
Chlorobenzene-ss	100.0	100.6	103.5	104.1	0.6	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543

Analysis Run Log
Gasoline Range Organics

Analysis Method: SW8015

Instrument ID: GCN
Column: RTX-1, FID

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
NF041403	GSTD1	GSTD1	04/14/2006	17:02		04/14/2006	17:22
NF041404	GSTD2	GSTD2	04/14/2006	17:27		04/14/2006	17:47
NF041405	GSTD3	GSTD3	04/14/2006	17:52		04/14/2006	18:12
NF041406	GSTD4	GSTD4	04/14/2006	18:17		04/14/2006	18:37
NF041407	GSTD5	GSTD5	04/14/2006	18:42		04/14/2006	19:02
NF041408	QCALTSTD	QCALTSTD	04/14/2006	19:07		04/14/2006	19:27
NF053102	GSTD3	GSTD3	05/31/2006	20:57		05/31/2006	21:17
NF053103	Method Blank	NWB10531	05/31/2006	21:22		05/31/2006	21:42
NF053104	Laboratory Control Sample	NWB10531LCS	05/31/2006	21:47		05/31/2006	22:07
NF053105	Laboratory Control Sample Duplicate	NWB10531LCSD	05/31/2006	22:12		05/31/2006	22:32
NF053113	GSTD4	GSTD4	06/01/2006	01:31		06/01/2006	01:51
NF053118	1065MW9ACL	D0600543-003	06/01/2006	03:36		06/01/2006	03:56
NF053124	GSTD3	GSTD3	06/01/2006	06:06		06/01/2006	06:26
NF053130	1213GW101CL	D0600543-001	06/01/2006	10:39		06/01/2006	10:59
NF053131	1349MW100CL	D0600543-002	06/01/2006	11:04		06/01/2006	11:24
NF053132	GSTD3	GSTD3	06/01/2006	11:29		06/01/2006	11:49

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Extracted: 05/31/2006

Extraction Prep Log
Gasoline Range Organics

Extaction Method: SW5030
Analysis Method: SW8015

Extraction Lot: NWB10531

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	NWB10531	NA	NA	5.000 ML	5.000	NA	
Laboratory Control Sample	NWB10531LCS	NA	NA	5.000 ML	5.000	NA	
Laboratory Control Sample Duplicate	NWB10531LCSD	NA	NA	5.000 ML	5.000	NA	
1065MW9ACL	D0600543-003	05/24/2006	05/26/2006	5.000 ML	5.000	NA	
1213GW101CL	D0600543-001	05/24/2006	05/26/2006	5.000 ML	5.000	NA	
1349MW100CL	D0600543-002	05/24/2006	05/26/2006	5.000 ML	5.000	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543

Holding Time Summary
Gasoline Range Organics

Analysis Method: SW8015

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
1213GW101CL	05/24/2006	05/26/2006	N/A	N/A	N/A	N/A	N/A	N/A	06/01/2006	14	8	
1349MW100CL	05/24/2006	05/26/2006	N/A	N/A	N/A	N/A	N/A	N/A	06/01/2006	14	8	
1065MW9ACL	05/24/2006	05/26/2006	N/A	N/A	N/A	N/A	N/A	N/A	06/01/2006	14	8	

Comments:

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: SW8015 Matrix: Water

Instrument ID: GCN

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
TPH-Gasoline (C7-C12)	05/15/2006	50.00		37.4	37.2	31.9	29.9	39.8	29.5	30.1	4.3	13

GC Volatiles

Columbia Analytical Services - Redding

GCN - HP 5890

Date
4-14-06

RT Marker Std Prep #3 luft 65C
Internal Standard Std Prep #3 luft —
Surrogate Std Prep #3 luft 66C

Std A Prep #3 luft 66D
Std B Prep #3 luft 66E
Std C Prep #3 luft —
Std D Prep #3 luft —

Analyst: AB
ICAL Date: 4-14-06
Method: SW846

Filename	Laboratory ID	Vial	Matrix	pH	Weight (Grams)	%M	DL Factor	STD	Gas Run OK?	Gas Rept?	A1 Run OK?	A2 Run OK?	Aromatic Rept?	Comments
NF041401	GSTD3	—	—	N/A	N/A	N/A	N/A	A	N	N				
2	RT Merker	—	—						Y	Y				
3	GSTD1	—	—											
4	GSTD2	—	—											
5	GSTD3	—	—											
6	GSTD4	—	—											
7	GSTD5	—	—											
8	QCALTSTD	—	—					~~A~~ B						

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Columbia Analytical Services - Redding

Date
05/31/06

RT Marker Std Prep # 3 luft 65C
Internal Standard Std Prep # 3 luft 59C
Surrogate Std Prep # 3 luft 66C

Std A Prep # 3 luft 66G , 67A
Std B Prep # 3 luft 66H , 67B
Std C Prep # 3 luft
Std D Prep # 3 luft

Analyst: B
ICAL Date: 11/29/05 soil 03/21/06 water
Method: SW8021 & SW8015 04/14/06

Filename	Laboratory ID	Vial	Matrix	pH	Weight (Grams)	%M	DL Factor	STD	Gas Run OK?	Gas Rept?	A1 Run OK?	A2 Run OK?	Aromatic Rept?	Comments
NP053101	ASTD3	—	—	—	—	—	—	A			✓	✓	✓	
2	NSB10531CCS	—	S	—	5.0	—	1X				✓	✓	✓	
3	NSB10531BLK	—		—		—					✓	✓	✓	
4	D0600355-007	.01		—		—					N	N	N	BTEX↑ 50ul→5g/5ml
5	-008	.01		—		—					✓	✓	✓	50ul→5g/5ml
6	-007	.01		—		—	5X				✓	✓	✓	10ul→5g/5ml
7	ASTD4	—	—	—	—	—	—	A			✓	✓	✓	
8	ASTD3	—	—	—	—	—	—	A			✓	✓	✓	
9	NWB10531CCS	—	W	—	—	—	1X	B			✓	✓	✓	
10	NWB10531BLK	—		—	—	—					✓	✓	✓	
11	D0600355-003	.01		—	—	—	5X				✓	✓	✓	4ul→40ml
12	-004	.01		—	—	—					✓	✓	✓	20ul→40ml
13	ASTD4	—	—	—	—	—	—	A			✓	✓	✓	
NF053101	RTMARKER	—	—	—	—	—	—		✓	✓	~~✓~~	~~✓~~		
2	GSTD3	—	—	—	—	—	—	AA	✓	✓	~~✓~~	~~✓~~		
3	NWB10531BLK	—	W	—	—	—	1X		✓	✓				
4	NWB10531LCS	—		—	—	—		BB	✓	✓				
5	NWB10531LCSD	—		—	—	—		BB	✓	✓				
6	D0600502-001	.04		<2	—	—			N	N				TPH↑
7	-002				—	—			N	N				TPH↑
8	-003				—	—			N	N				TPH↑
9	-004				—	—			✓	N				Remn for Carryover
10	005				—	—			✓	✓				
11	006				—	—			✓	✓				
12	007				—	—			✓	✓				
13	GSTD4 ~~008~~	—	—	—	—	—	—	AA	✓	✓				
14	008	.04	W	<2	—	—	1X		✓	✓				
15	009			<2	—	—			✓	✓				

GC Volatiles

Columbia Analytical Services - Redding

GCN - HP 5890

Date
05/31/06

RT Marker Std Prep # 3 luft 65C
Internal Standard Std Prep # 3 luft —
Surrogate Std Prep # 3 luft 66C

Std A Prep # 3 luft 67A
Std B Prep # 3 luft 67B
Std C Prep # 3 luft —
Std D Prep # 3 luft —

Analyst: B
ICAL Date: 4/14/06
Method: SW8015

Filename	Laboratory ID	Vial	Matrix	pH	Weight (Grams)	%M	DL Factor	STD	Gas Run OK?	Gas Rept?	A1 Run OK?	A2 Run OK?	Aromatic Rept?	Comments
NF053116	D0600502-010	.04	W	<2	—	—	1X		✓	✓				
17	-011	.04			—	—			✓	✓				
18	D0600543-003	.04			—	—			✓	✓				
19	L0600788-001	.06			—	—			✓	✓				
20	-002	.03			—	—			✓	✓				
21	-003	.04			—	—			✓	✓				
22	-004				—	—			✓	✓				
23	-005				—	—			✓	✓				
24	GSTD3	—	—	—	—	—	—	A	✓	✓				
25	D0600355-001	.01	W	—	—	—	1X		✓	✓				20ml → 40ml
26	D0600502-001	.05		<2	—	—	5X		✓	✓				
27	-002				—	—	5X		✓	✓				
28	-003				—	—	10X		✓	✓				
29	-004				—	—	1X		✓	✓				
30	D0600543-001	.40			—	—			✓	✓				
31	-002	.23			—	—			✓	✓				
32	GSTD3	—	—	—	—	—	—	A	✓	✓				

6/1/06

GC ORGANOCHLORINE PESTICIDES

COLUMBIA ANALYTICAL SERVICES/REDDING

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543

Cover Page - Analysis Data Package
ORGANOCHLORINE PESTICIDES

Sample Name	Lab Code	Date Collected	Date Received
1349MW100CL	D0600543-002	05/24/2006	05/26/2006

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Wida Ang
Date: 6/16/06

Name: WIDA ANG
Title: Organic Manager

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: 05/24/2006
Date Received: 05/26/2006

ORGANOCHLORINE PESTICIDES

Sample Name: 1349MW100CL
Lab Code: D0600543-002

Units: ug/L (ppb)
Basis: NA

Extraction SW3520
Analysis Method: SW8081

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Endosulfan I	ND	U	0.050	1	05/31/2006	06/14/2006	PWB10531	
Methoxychlor	ND	U	0.50	1	05/31/2006	06/14/2006	PWB10531	
alpha-BHC	ND	U	0.050	1	05/31/2006	06/14/2006	PWB10531	
beta-BHC	ND	U	0.050	1	05/31/2006	06/14/2006	PWB10531	
gamma-BHC (Lindane)	**0.082**		0.050	1	05/31/2006	06/14/2006	PWB10531	
delta-BHC	ND	U	0.050	1	05/31/2006	06/14/2006	PWB10531	
Heptachlor	ND	U	0.050	1	05/31/2006	06/14/2006	PWB10531	
Aldrin	ND	U	0.050	1	05/31/2006	06/14/2006	PWB10531	
Heptachlor epoxide	ND	U	0.050	1	05/31/2006	06/14/2006	PWB10531	
gamma-Chlordane	ND	U	0.50	1	05/31/2006	06/14/2006	PWB10531	
Toxaphene	ND	U	1.0	1	05/31/2006	06/14/2006	PWB10531	
alpha-Chlordane	ND	U	0.50	1	05/31/2006	06/14/2006	PWB10531	
4,4'-DDE	ND	U	0.10	1	05/31/2006	06/14/2006	PWB10531	
Dieldrin	ND	U	0.10	1	05/31/2006	06/14/2006	PWB10531	
Endrin	ND	U	0.10	1	05/31/2006	06/14/2006	PWB10531	
Endosulfan II	ND	U	0.10	1	05/31/2006	06/14/2006	PWB10531	
4,4'-DDD	ND	U	0.10	1	05/31/2006	06/14/2006	PWB10531	
Endosulfan sulfate	ND	U	0.10	1	05/31/2006	06/14/2006	PWB10531	
4,4'-DDT	ND	U	0.10	1	05/31/2006	06/14/2006	PWB10531	
Endrin ketone	ND	U	0.10	1	05/31/2006	06/14/2006	PWB10531	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	43	65-135	06/14/2006	*
Tetrachloro-m-xylene - SS	75	65-135	06/14/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: NA
Date Received: NA

ORGANOCHLORINE PESTICIDES

Sample Name: Method Blank
Lab Code: PWB10531
Extraction SW3520
Analysis Method: SW8081

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Endosulfan I	ND	U	0.050	1	05/31/2006	06/14/2006	PWB10531	
Methoxychlor	ND	U	0.50	1	05/31/2006	06/14/2006	PWB10531	
alpha-BHC	ND	U	0.050	1	05/31/2006	06/14/2006	PWB10531	
beta-BHC	ND	U	0.050	1	05/31/2006	06/14/2006	PWB10531	
gamma-BHC (Lindane)	ND	U	0.050	1	05/31/2006	06/14/2006	PWB10531	
delta-BHC	ND	U	0.050	1	05/31/2006	06/14/2006	PWB10531	
Heptachlor	ND	U	0.050	1	05/31/2006	06/14/2006	PWB10531	
Aldrin	ND	U	0.050	1	05/31/2006	06/14/2006	PWB10531	
Heptachlor epoxide	ND	U	0.050	1	05/31/2006	06/14/2006	PWB10531	
gamma-Chlordane	ND	U	0.50	1	05/31/2006	06/14/2006	PWB10531	
Toxaphene	ND	U	1.0	1	05/31/2006	06/14/2006	PWB10531	
alpha-Chlordane	ND	U	0.50	1	05/31/2006	06/14/2006	PWB10531	
4,4'-DDE	ND	U	0.10	1	05/31/2006	06/14/2006	PWB10531	
Dieldrin	ND	U	0.10	1	05/31/2006	06/14/2006	PWB10531	
Endrin	ND	U	0.10	1	05/31/2006	06/14/2006	PWB10531	
Endosulfan II	ND	U	0.10	1	05/31/2006	06/14/2006	PWB10531	
4,4'-DDD	ND	U	0.10	1	05/31/2006	06/14/2006	PWB10531	
Endosulfan sulfate	ND	U	0.10	1	05/31/2006	06/14/2006	PWB10531	
4,4'-DDT	ND	U	0.10	1	05/31/2006	06/14/2006	PWB10531	
Endrin ketone	ND	U	0.10	1	05/31/2006	06/14/2006	PWB10531	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl - SS	89	65-135	06/14/2006	
Tetrachloro-m-xylene - SS	82	65-135	06/14/2006	

Comments: _____

QC Summary

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543

Surrogate Recovery Summary
ORGANOCHLORINE PESTICIDES

Prep Method: SW3520
Analysis Method: SW8081

Units: Percent

Sample Name	Lab Code	Q	S1	S2
Laboratory Control Sample	PWB10531LCS	*	64	75
Laboratory Control Sample Duplicate	PWB10531LCSD	*	59	78
Method Blank	PWB10531		89	82
1349MW100CL	D0600543-002	*	43	75

Surrogate Recovery Control Limits (%)

S1:	Decachlorobiphenyl - SS	65-135
S2:	Tetrachloro-m-xylene - SS	65-135

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	Treadwell and Rollo, Inc.	**Service Request:**	D0600543
Project:	Presidio	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	05/31/2006
		Date Analyzed:	06/14/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
ORGANOCHLORINE PESTICIDES

LCS Sample	Lab Control Sample	**DLCS Sample**	Lab Control Sample Duplicate
Lab Code:	PWB10531LCS	**Units:**	ug/L (ppb)
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Endosulfan I	SW3520	SW8081	0.050	0.5000	0.4142	0.4357	83	87	65-135	5	
Endrin ketone	SW3520	SW8081	0.10	0.5000	0.3961	0.4394	79	88	65-135	10	
alpha-BHC	SW3520	SW8081	0.050	0.5000	0.4333	0.4448	87	89	65-135	3	
beta-BHC	SW3520	SW8081	0.050	0.5000	0.4467	0.4620	89	92	65-135	3	
gamma-BHC (Lindane)	SW3520	SW8081	0.050	0.5000	0.4646	0.4747	93	95	65-135	2	
delta-BHC	SW3520	SW8081	0.050	0.5000	0.4300	0.4660	86	93	65-135	8	
Heptachlor	SW3520	SW8081	0.050	0.5000	0.4235	0.4409	85	88	65-135	4	
Aldrin	SW3520	SW8081	0.050	0.5000	0.4202	0.4309	84	86	65-135	2	
Heptachlor epoxide	SW3520	SW8081	0.050	0.5000	0.4426	0.4713	88	94	65-135	6	
gamma-Chlordane	SW3520	SW8081	0.50	0.5000	0.4291	0.4534	86	91	65-135	6	
Methoxychlor	SW3520	SW8081	0.50	0.5000	0.4107	0.4446	82	89	65-135	8	
alpha-Chlordane	SW3520	SW8081	0.50	0.5000	0.3944	0.4385	79	88	65-135	10	
4,4'-DDE	SW3520	SW8081	0.10	0.5000	0.4140	0.4329	83	86	65-135	4	
Dieldrin	SW3520	SW8081	0.10	0.5000	0.4124	0.4335	82	87	65-135	5	
Endrin	SW3520	SW8081	0.10	0.5000	0.4341	0.4447	87	89	65-135	2	
Endosulfan II	SW3520	SW8081	0.10	0.5000	0.3946	0.4237	79	85	65-135	7	
4,4'-DDD	SW3520	SW8081	0.10	0.5000	0.4110	0.4365	82	87	65-135	6	
Endosulfan sulfate	SW3520	SW8081	0.10	0.5000	0.4120	0.4644	82	93	65-135	12	
4,4'-DDT	SW3520	SW8081	0.10	0.5000	0.4245	0.4266	85	85	65-135	0	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client:	Treadwell and Rollo, Inc.	**Service Request:**	D0600543
Project:	Presidio	**Date Extracted:**	05/31/2006
Sample Matrix:	Water	**Date Analyzed:**	06/14/2006
		Time Analyzed:	14:20

Method Blank Summary
ORGANOCHLORINE PESTICIDES

Extaction Method: SW3520
Analysis Method: SW8081

Extraction Lot: PWB10531

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	PWB10531LCS	D0613026	06/14/2006	12:37
Laboratory Control Sample Duplicate	PWB10531LCSD	D0613027	06/14/2006	13:28
1349MW100CL	D0600543-002	D0613031	06/14/2006	16:55

Standards data

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
ICAL Date: 06/14/2006

Initial Calibration Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 06/14/2006GCD
Instrument ID: GCD

Column: DB5

Level ID	File ID
A	D0613015
B	D0613016
C	D0613017
D	D0613018
E	D0613019

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Toxaphene	A	0.100	0.023	B	0.250	0.023	C	0.500	0.021	D	0.750	0.020	E	1.000	0.017

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
ICAL Date: 06/14/2006

Initial Calibration Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 06/14/2006GCD
Instrument ID: GCD

Column: DB5

Level ID	File ID
A	D0613015
B	D0613016
C	D0613017
D	D0613018
E	D0613019

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Endosulfan I	A	0.002	1.368	B	0.015	1.040	C	0.050	0.938	D	0.075	0.961	E	0.100	0.979
Endrin ketone	A	0.002	1.306	B	0.015	1.025	C	0.050	0.904	D	0.075	0.912	E	0.100	0.903
4,4'-DDT	A	0.002	1.077	B	0.015	0.945	C	0.050	0.835	D	0.075	0.844	E	0.100	0.830
alpha-BHC	A	0.002	2.345	B	0.015	1.813	C	0.050	1.691	D	0.075	1.759	E	0.100	1.699
beta-BHC	A	0.002	0.623	B	0.015	0.566	C	0.050	0.526	D	0.075	0.519	E	0.100	0.507
gamma-BHC (Lindane)	A	0.002	1.645	B	0.015	1.524	C	0.050	1.529	D	0.075	1.548	E	0.100	1.528
delta-BHC	A	0.002	1.607	B	0.015	1.405	C	0.050	1.369	D	0.075	1.441	E	0.100	1.445
Heptachlor	A	0.002	1.830	B	0.015	1.545	C	0.050	1.461	D	0.075	1.479	E	0.100	1.486
Aldrin	A	0.002	1.630	B	0.015	1.416	C	0.050	1.349	D	0.075	1.354	E	0.100	1.363
Heptachlor epoxide	A	0.002	1.478	B	0.015	1.218	C	0.050	1.144	D	0.075	1.170	E	0.100	1.176
gamma-Chlordane	A	0.002	1.422	B	0.015	1.171	C	0.050	1.153	D	0.075	1.090	E	0.100	1.154
Methoxychlor	A	0.002	0.598	B	0.015	0.500	C	0.050	0.433	D	0.075	0.419	E	0.100	0.410
alpha-Chlordane	A	0.002	1.494	B	0.015	1.235	C	0.050	1.140	D	0.075	1.145	E	0.100	1.174
4,4'-DDE	A	0.002	1.409	B	0.015	1.112	C	0.050	0.984	D	0.075	0.982	E	0.100	0.989
Dieldrin	A	0.002	1.546	B	0.015	1.210	C	0.050	1.135	D	0.075	1.111	E	0.100	1.131
Endrin	A	0.002	1.360	B	0.015	1.105	C	0.050	1.042	D	0.075	1.037	E	0.100	1.027
Endosulfan II	A	0.002	1.241	B	0.015	1.006	C	0.050	0.902	D	0.075	0.888	E	0.100	0.883
4,4'-DDD	A	0.002	1.066	B	0.015	0.868	C	0.050	0.777	D	0.075	0.768	E	0.100	0.766
Endrin aldehyde	A	0.002	0.898	B	0.015	0.745	C	0.050	0.673	D	0.075	0.661	E	0.100	0.660
Endosulfan sulfate	A	0.002	1.051	B	0.015	0.868	C	0.050	0.789	D	0.075	0.777	E	0.100	0.784
Tetrachloro-m-xylene	A	0.004	0.942	B	0.030	0.825	C	0.100	0.787	D	0.150	0.797	E	0.200	0.790
Decachlorobiphenyl - SS	A	0.004	1.183	B	0.030	0.851	C	0.100	0.741	D	0.150	0.729	E	0.200	0.719

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
ICAL Date: 06/14/2006

Initial Calibration Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 06/14/2006GCD
Instrument ID: GCD

Column: DB1701

Level ID	File ID
A	D0613015
B	D0613016
C	D0613017
D	D0613018
E	D0613019

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Endosulfan I	A	0.002	1.692	B	0.015	1.399	C	0.050	1.323	D	0.075	1.356	E	0.100	1.346
Endrin ketone	A	0.002	1.039	B	0.015	0.921	C	0.050	0.905	D	0.075	0.927	E	0.100	0.926
4,4'-DDT	A	0.002	1.012	B	0.015	0.915	C	0.050	0.910	D	0.075	0.958	E	0.100	0.960
alpha-BHC	A	0.002	2.094	B	0.015	1.946	C	0.050	1.929	D	0.075	2.047	E	0.100	2.036
beta-BHC	A	0.002	0.651	B	0.015	0.603	C	0.050	0.609	D	0.075	0.614	E	0.100	0.578
gamma-BHC (Lindane)	A	0.002	1.945	B	0.015	1.817	C	0.050	1.812	D	0.075	1.896	E	0.100	1.902
delta-BHC	A	0.002	1.750	B	0.015	1.680	C	0.050	1.653	D	0.075	1.785	E	0.100	1.791
Heptachlor	A	0.002	2.068	B	0.015	1.837	C	0.050	1.867	D	0.075	1.932	E	0.100	1.963
Aldrin	A	0.002	1.926	B	0.015	1.742	C	0.050	1.730	D	0.075	1.794	E	0.100	1.818
Heptachlor epoxide	A	0.002	1.720	B	0.015	1.526	C	0.050	1.511	D	0.075	1.566	E	0.100	1.562
gamma-Chlordane	A	0.002	1.677	B	0.015	1.477	C	0.050	1.446	D	0.075	1.490	E	0.100	1.482
Methoxychlor	A	0.002	0.470	B	0.015	0.466	C	0.050	0.474	D	0.075	0.502	E	0.100	0.498
alpha-Chlordane	A	0.002	1.640	B	0.015	1.455	C	0.050	1.509	D	0.075	1.567	E	0.100	1.569
4,4'-DDE	A	0.002	1.569	B	0.015	1.346	C	0.050	1.356	D	0.075	1.447	E	0.100	1.443
Dieldrin	A	0.002	1.648	B	0.015	1.480	C	0.050	1.452	D	0.075	1.594	E	0.100	1.597
Endrin	A	0.002	1.516	B	0.015	1.337	C	0.050	1.369	D	0.075	1.426	E	0.100	1.427
Endosulfan II	A	0.002	1.341	B	0.015	1.194	C	0.050	1.177	D	0.075	1.276	E	0.100	1.266
4,4'-DDD	A	0.002	1.072	B	0.015	0.973	C	0.050	0.907	D	0.075	0.927	E	0.100	0.951
Endrin aldehyde	A	0.002	0.738	B	0.015	0.653	C	0.050	0.638	D	0.075	0.626	E	0.100	0.604
Endosulfan sulfate	A	0.002	1.004	B	0.015	0.914	C	0.050	0.891	D	0.075	0.916	E	0.100	0.911
Tetrachloro-m-xylene	A	0.004	0.954	B	0.030	0.842	C	0.100	0.790	D	0.150	0.809	E	0.200	0.805
Decachlorobiphenyl - SS	A	0.004	1.061	B	0.030	0.912	C	0.100	0.861	D	0.150	0.887	E	0.200	0.890

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
ICAL Date: 06/14/2006

Initial Calibration Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 06/14/2006GCD
Instrument ID: GCD
Mean RSD: 12.52

Column: DB5

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
Toxaphene	TRG	AverageRF	% RSD	12.8		20.0

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
ICAL Date: 06/14/2006

Initial Calibration Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 06/14/2006GCD
Instrument ID: GCD
Mean RSD: 12.52

Column: DB5

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
Endosulfan I	TRG	AverageRF	% RSD	16.8		20.0
Endrin ketone	TRG	AverageRF	% RSD	17.2		20.0
4,4'-DDT	TRG	AverageRF	% RSD	11.8		20.0
alpha-BHC	TRG	AverageRF	% RSD	14.8		20.0
beta-BHC	TRG	AverageRF	% RSD	8.6		20.0
gamma-BHC (Lindane)	TRG	AverageRF	% RSD	3.3		20.0
delta-BHC	TRG	AverageRF	% RSD	6.3		20.0
Heptachlor	TRG	AverageRF	% RSD	9.9		20.0
Aldrin	TRG	AverageRF	% RSD	8.4		20.0
Heptachlor epoxide	TRG	AverageRF	% RSD	11.1		20.0
gamma-Chlordane	TRG	AverageRF	% RSD	10.8		20.0
Methoxychlor	TRG	AverageRF	% RSD	16.7		20.0
alpha-Chlordane	TRG	AverageRF	% RSD	12.0		20.0
4,4'-DDE	TRG	AverageRF	% RSD	16.8		20.0
Dieldrin	TRG	AverageRF	% RSD	14.9		20.0
Endrin	TRG	AverageRF	% RSD	12.6		20.0
Endosulfan II	TRG	AverageRF	% RSD	15.4		20.0
4,4'-DDD	TRG	AverageRF	% RSD	15.2		20.0
Endrin aldehyde	TRG	AverageRF	% RSD	14.0		20.0
Endosulfan sulfate	TRG	AverageRF	% RSD	13.6		20.0
Tetrachloro-m-xylene	SUR	AverageRF	% RSD	7.9		20.0
Decachlorobiphenyl - SS	SUR	Linear	r	1.000		0.995

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
ICAL Date: 06/14/2006

Initial Calibration Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 06/14/2006GCD
Instrument ID: GCD
Mean RSD: 5.24

Column: DB1701

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
Endosulfan I	TRG	AverageRF	% RSD	10.7		20.0
Endrin ketone	TRG	AverageRF	% RSD	5.7		20.0
4,4'-DDT	TRG	AverageRF	% RSD	4.4		20.0
alpha-BHC	TRG	AverageRF	% RSD	3.5		20.0
beta-BHC	TRG	AverageRF	% RSD	4.3		20.0
gamma-BHC (Lindane)	TRG	AverageRF	% RSD	3.1		20.0
delta-BHC	TRG	AverageRF	% RSD	3.6		20.0
Heptachlor	TRG	AverageRF	% RSD	4.7		20.0
Aldrin	TRG	AverageRF	% RSD	4.3		20.0
Heptachlor epoxide	TRG	AverageRF	% RSD	5.3		20.0
gamma-Chlordane	TRG	AverageRF	% RSD	6.1		20.0
Methoxychlor	TRG	AverageRF	% RSD	3.5		20.0
alpha-Chlordane	TRG	AverageRF	% RSD	4.5		20.0
4,4'-DDE	TRG	AverageRF	% RSD	6.3		20.0
Dieldrin	TRG	AverageRF	% RSD	5.4		20.0
Endrin	TRG	AverageRF	% RSD	4.8		20.0
Endosulfan II	TRG	AverageRF	% RSD	5.3		20.0
4,4'-DDD	TRG	AverageRF	% RSD	6.7		20.0
Endrin aldehyde	TRG	AverageRF	% RSD	7.9		20.0
Endosulfan sulfate	TRG	AverageRF	% RSD	4.7		20.0
Tetrachloro-m-xylene	SUR	AverageRF	% RSD	7.9		20.0
Decachlorobiphenyl - SS	SUR	Linear	r	1.000		0.995

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
Date Analyzed: 06/14/2006

Second Source Calibration Verification
ORGANOCHLORINE PESTICIDES

ICAL ID: **06/14/2006GCD**
Instrument ID: **GCD**
File ID: **D0613013**

Column: DB5

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Toxaphene	0.500	0.491	0.000	0.000	-1.80	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
Date Analyzed: 06/14/2006

Second Source Calibration Verification
ORGANOCHLORINE PESTICIDES

ICAL ID: 06/14/2006GCD
Instrument ID: GCD
File ID: D0613020

Column: DB5

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Endosulfan I	0.050	0.049	1.057	1.040	-1.60	NA	+/- 15.0	AverageRF	
Endrin ketone	0.050	0.052	1.010	1.062	5.10	NA	+/- 15.0	AverageRF	
4,4'-DDT	0.050	0.054	0.906	0.976	7.70	NA	+/- 15.0	AverageRF	
alpha-BHC	0.050	0.049	1.862	1.840	-1.20	NA	+/- 15.0	AverageRF	
beta-BHC	0.050	0.052	0.548	0.568	3.60	NA	+/- 15.0	AverageRF	
gamma-BHC (Lindane)	0.050	0.054	1.555	1.671	7.40	NA	+/- 15.0	AverageRF	
delta-BHC	0.050	0.056	1.453	1.641	12.90	NA	+/- 15.0	AverageRF	
Heptachlor	0.050	0.050	1.560	1.566	0.40	NA	+/- 15.0	AverageRF	
Aldrin	0.050	0.050	1.422	1.434	0.80	NA	+/- 15.0	AverageRF	
Heptachlor epoxide	0.050	0.051	1.237	1.262	2.00	NA	+/- 15.0	AverageRF	
gamma-Chlordane	0.050	0.051	1.198	1.218	1.70	NA	+/- 15.0	AverageRF	
Methoxychlor	0.050	0.051	0.472	0.480	1.80	NA	+/- 15.0	AverageRF	
alpha-Chlordane	0.050	0.049	1.238	1.218	-1.60	NA	+/- 15.0	AverageRF	
4,4'-DDE	0.050	0.051	1.095	1.120	2.30	NA	+/- 15.0	AverageRF	
Dieldrin	0.050	0.051	1.227	1.263	3.00	NA	+/- 15.0	AverageRF	
Endrin	0.050	0.052	1.114	1.153	3.50	NA	+/- 15.0	AverageRF	
Endosulfan II	0.050	0.050	0.984	0.994	1.00	NA	+/- 15.0	AverageRF	
4,4'-DDD	0.050	0.051	0.849	0.871	2.70	NA	+/- 15.0	AverageRF	
Endrin aldehyde	0.050	0.051	0.728	0.745	2.40	NA	+/- 15.0	AverageRF	
Endosulfan sulfate	0.050	0.051	0.854	0.866	1.40	NA	+/- 15.0	AverageRF	
Tetrachloro-m-xylene	0.100	0.097	0.828	0.803	-3.00	NA	+/- 15.0	AverageRF	
Decachlorobiphenyl - SS	0.100	0.106	0.106	0.100	NA	5.6	+/- 15.0	Linear	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
Date Analyzed: 06/14/2006

Second Source Calibration Verification
ORGANOCHLORINE PESTICIDES

ICAL ID: 06/14/2006GCD
Instrument ID: GCD
File ID: D0613020

Column: DB1701

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Endosulfan I	0.050	0.050	1.423	1.439	1.10	NA	+/- 15.0	AverageRF	
Endrin ketone	0.050	0.056	0.943	1.068	13.20	NA	+/- 15.0	AverageRF	
4,4'-DDT	0.050	0.053	0.951	1.013	6.50	NA	+/- 15.0	AverageRF	
alpha-BHC	0.050	0.052	2.010	2.106	4.70	NA	+/- 15.0	AverageRF	
beta-BHC	0.050	0.055	0.611	0.669	9.50	NA	+/- 15.0	AverageRF	
gamma-BHC (Lindane)	0.050	0.053	1.874	1.984	5.90	NA	+/- 15.0	AverageRF	
delta-BHC	0.050	0.057	1.732	1.976	14.10	NA	+/- 15.0	AverageRF	
Heptachlor	0.050	0.052	1.933	2.030	5.00	NA	+/- 15.0	AverageRF	
Aldrin	0.050	0.053	1.802	1.904	5.70	NA	+/- 15.0	AverageRF	
Heptachlor epoxide	0.050	0.052	1.577	1.630	3.40	NA	+/- 15.0	AverageRF	
gamma-Chlordane	0.050	0.053	1.514	1.601	5.70	NA	+/- 15.0	AverageRF	
Methoxychlor	0.050	0.057	0.482	0.547	13.40	NA	+/- 15.0	AverageRF	
alpha-Chlordane	0.050	0.053	1.548	1.637	5.80	NA	+/- 15.0	AverageRF	
4,4'-DDE	0.050	0.052	1.432	1.479	3.30	NA	+/- 15.0	AverageRF	
Dieldrin	0.050	0.049	1.554	1.524	-1.90	NA	+/- 15.0	AverageRF	
Endrin	0.050	0.052	1.415	1.476	4.30	NA	+/- 15.0	AverageRF	
Endosulfan II	0.050	0.052	1.251	1.309	4.60	NA	+/- 15.0	AverageRF	
4,4'-DDD	0.050	0.052	0.966	0.996	3.10	NA	+/- 15.0	AverageRF	
Endrin aldehyde	0.050	0.053	0.652	0.691	6.10	NA	+/- 15.0	AverageRF	
Endosulfan sulfate	0.050	0.054	0.927	1.005	8.40	NA	+/- 15.0	AverageRF	
Tetrachloro-m-xylene	0.100	0.096	0.840	0.807	-4.00	NA	+/- 15.0	AverageRF	
Decachlorobiphenyl - SS	0.100	0.102	0.102	0.100	NA	2.2	+/- 15.0	Linear	

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
Date Analyzed: 06/14/2006

Continuing Calibration Verification Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 06/14/2006GCD
Instrument ID: GCD
File ID: D0613033

Column: DB5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Toxaphene	0.500	0.472	0.000	0.000	-5.53	NA	+/- 15.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
Date Analyzed: 06/14/2006

Continuing Calibration Verification Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 06/14/2006GCD
Instrument ID: GCD
File ID: D0613034

Column: DB5

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Endosulfan I	0.050	0.044	1.057	0.922	-12.80	NA	+/- 15.0	AverageRF	
Endrin ketone	0.050	0.042	1.010	0.859	-14.90	NA	+/- 15.0	AverageRF	
4,4'-DDT	0.050	0.044	0.906	0.806	-11.10	NA	+/- 15.0	AverageRF	
alpha-BHC	0.050	0.046	1.862	1.703	-8.50	NA	+/- 15.0	AverageRF	
beta-BHC	0.050	0.047	0.548	0.517	-5.60	NA	+/- 15.0	AverageRF	
gamma-BHC (Lindane)	0.050	0.049	1.555	1.525	-1.90	NA	+/- 15.0	AverageRF	
delta-BHC	0.050	0.047	1.453	1.359	-6.50	NA	+/- 15.0	AverageRF	
Heptachlor	0.050	0.046	1.560	1.425	-8.70	NA	+/- 15.0	AverageRF	
Aldrin	0.050	0.046	1.422	1.325	-6.80	NA	+/- 15.0	AverageRF	
Heptachlor epoxide	0.050	0.046	1.237	1.130	-8.70	NA	+/- 15.0	AverageRF	
gamma-Chlordane	0.050	0.046	1.198	1.116	-6.80	NA	+/- 15.0	AverageRF	
Methoxychlor	0.050	0.042	0.472	0.401	-15.00	NA	+/- 15.0	AverageRF	
alpha-Chlordane	0.050	0.047	1.238	1.169	-5.50	NA	+/- 15.0	AverageRF	
4,4'-DDE	0.050	0.043	1.095	0.949	-13.30	NA	+/- 15.0	AverageRF	
Dieldrin	0.050	0.043	1.227	1.052	-14.30	NA	+/- 15.0	AverageRF	
Endrin	0.050	0.045	1.114	1.012	-9.20	NA	+/- 15.0	AverageRF	
Endosulfan II	0.050	0.044	0.984	0.865	-12.00	NA	+/- 15.0	AverageRF	
4,4'-DDD	0.050	0.044	0.849	0.743	-12.40	NA	+/- 15.0	AverageRF	
Endrin aldehyde	0.050	0.043	0.728	0.624	-14.30	NA	+/- 15.0	AverageRF	
Endosulfan sulfate	0.050	0.044	0.854	0.744	-12.80	NA	+/- 15.0	AverageRF	
Tetrachloro-m-xylene	0.100	0.096	0.828	0.794	-4.20	NA	+/- 15.0	AverageRF	
Decachlorobiphenyl - SS	0.100	0.097	0.097	0.100	NA	-2.7	+/- 15.0	Linear	

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
Date Analyzed: 06/14/2006

Continuing Calibration Verification Summary
ORGANOCHLORINE PESTICIDES

ICAL ID: 06/14/2006GCD
Instrument ID: GCD
File ID: D0613034

Column: DB1701

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Endosulfan I	0.050	0.046	1.423	1.296	-9.00	NA	+/- 15.0	AverageRF	
Endrin ketone	0.050	0.046	0.943	0.863	-8.50	NA	+/- 15.0	AverageRF	
4,4'-DDT	0.050	0.046	0.951	0.881	-7.40	NA	+/- 15.0	AverageRF	
alpha-BHC	0.050	0.048	2.010	1.925	-4.20	NA	+/- 15.0	AverageRF	
beta-BHC	0.050	0.051	0.611	0.623	2.00	NA	+/- 15.0	AverageRF	
gamma-BHC (Lindane)	0.050	0.048	1.874	1.799	-4.00	NA	+/- 15.0	AverageRF	
delta-BHC	0.050	0.049	1.732	1.701	-1.80	NA	+/- 15.0	AverageRF	
Heptachlor	0.050	0.048	1.933	1.852	-4.20	NA	+/- 15.0	AverageRF	
Aldrin	0.050	0.047	1.802	1.710	-5.10	NA	+/- 15.0	AverageRF	
Heptachlor epoxide	0.050	0.047	1.577	1.476	-6.40	NA	+/- 15.0	AverageRF	
gamma-Chlordane	0.050	0.047	1.514	1.416	-6.50	NA	+/- 15.0	AverageRF	
Methoxychlor	0.050	0.047	0.482	0.455	-5.60	NA	+/- 15.0	AverageRF	
alpha-Chlordane	0.050	0.048	1.548	1.484	-4.10	NA	+/- 15.0	AverageRF	
4,4'-DDE	0.050	0.046	1.432	1.330	-7.10	NA	+/- 15.0	AverageRF	
Dieldrin	0.050	0.046	1.554	1.427	-8.20	NA	+/- 15.0	AverageRF	
Endrin	0.050	0.048	1.415	1.363	-3.70	NA	+/- 15.0	AverageRF	
Endosulfan II	0.050	0.046	1.251	1.157	-7.50	NA	+/- 15.0	AverageRF	
4,4'-DDD	0.050	0.045	0.966	0.877	-9.20	NA	+/- 15.0	AverageRF	
Endrin aldehyde	0.050	0.047	0.652	0.610	-6.40	NA	+/- 15.0	AverageRF	
Endosulfan sulfate	0.050	0.046	0.927	0.857	-7.60	NA	+/- 15.0	AverageRF	
Tetrachloro-m-xylene	0.100	0.094	0.840	0.786	-6.40	NA	+/- 15.0	AverageRF	
Decachlorobiphenyl - SS	0.100	0.094	0.094	0.100	NA	-5.5	+/- 15.0	Linear	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc. **Service Request:** D0600543
Project: Presidio

Analysis Run Log
ORGANOCHLORINE PESTICIDES

Analysis Method: SW8081 **Instrument ID:** GCD
Column: DB5

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
D0613008	PSTD1 CHLRTOX	PSTD1 CHLRTOX	06/13/2006	21:07		06/13/2006	21:37
D0613009	PSTD2 CHLRTOX	PSTD2 CHLRTOX	06/13/2006	21:58		06/13/2006	22:28
D0613010	PSTD3 CHLRTOX	PSTD3 CHLRTOX	06/13/2006	22:50		06/13/2006	23:20
D0613011	PSTD4 CHLRTOX	PSTD4 CHLRTOX	06/13/2006	23:42		06/14/2006	00:12
D0613012	PSTD5 CHLRTOX	PSTD5 CHLRTOX	06/14/2006	00:33		06/14/2006	01:03
D0613013	QCALTSTD	PSTD3 CHLRTOX	06/14/2006	01:25		06/14/2006	01:55
D0613015	PSTD1 PEST	PSTD1 PEST	06/14/2006	03:08		06/14/2006	03:38
D0613016	PSTD2 PEST	PSTD2 PEST	06/14/2006	04:00		06/14/2006	04:30
D0613017	PSTD3 PEST	PSTD3 PEST	06/14/2006	04:52		06/14/2006	05:22
D0613018	PSTD4 PEST	PSTD4 PEST	06/14/2006	05:43		06/14/2006	06:13
D0613019	PSTD5 PEST	PSTD5 PEST	06/14/2006	06:35		06/14/2006	07:05
D0613020	QCALTSTD	PSTD3 PEST	06/14/2006	07:27		06/14/2006	07:57
D0613026	Laboratory Control Sample	PWB10531LCS	06/14/2006	12:37		06/14/2006	13:07
D0613027	Laboratory Control Sample Duplicate	PWB10531LCSD	06/14/2006	13:28		06/14/2006	13:58
D0613028	Method Blank	PWB10531	06/14/2006	14:20		06/14/2006	14:50
D0613031	1349MW100CL	D0600543-002	06/14/2006	16:55		06/14/2006	17:25
D0613033	PSTD3 CHLRTOX	PSTD3 CHLRTOX	06/14/2006	18:38		06/14/2006	19:08
D0613034	PSTD3 PEST	PSTD3 PEST	06/14/2006	19:30		06/14/2006	20:00

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Extracted: 05/31/2006

Extraction Prep Log
ORGANOCHLORINE PESTICIDES

Extaction Method: SW3520
Analysis Method: SW8081

Extraction Lot: PWB10531

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	PWB10531	NA	NA	1.000 L	10	NA	
Laboratory Control Sample	PWB10531LCS	NA	NA	1.000 L	10	NA	
Laboratory Control Sample Duplicate	PWB10531LCSD	NA	NA	1.000 L	10	NA	
1349MW100CL	D0600543-002	05/24/2006	05/26/2006	1.040 L	10	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

ORGANIC ANALYSES DATA APPENDIX D
SECONDARY CONFIRMATION RESULTS

Analytical Method: SW8081 AAB #: D0600543

Lab Name: Columbia Analytical Services/Redding

Matrix: Water

Concentration Units (ug/L or ug/Kg dry weight): UG/L

Field Sample ID	Lab Sample ID	Analyte	Primary	Confirmation	RPD
1349MW100CL	D0600543-002	gamma-BHC (Lindane)	0.082	0.070	16

Comments:

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543

Holding Time Summary
ORGANOCHLORINE PESTICIDES

Analysis Method: SW8081

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
1349MW100CL	05/24/2006	05/26/2006	05/31/2006	7	7	N/A	N/A	N/A	06/14/2006	40	14	

Comments:

GC/MS VOLATILE ORGANICS

COLUMBIA ANALYTICAL SERVICES/REDDING

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543

Cover Page - Analysis Data Package
Volatile Organic Compounds

Sample Name	Lab Code	Date Collected	Date Received
1213GW101CL	D0600543-001	05/24/2006	05/26/2006
1349MW100CL	D0600543-002	05/24/2006	05/26/2006
1065MW9ACL	D0600543-003	05/24/2006	05/26/2006
TB0524061ACL	D0600543-005	05/24/2006	05/26/2006

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: D Burnett

Date: 6-6-06 Title: Tech Mgr.

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: 05/24/2006
Date Received: 05/26/2006

Volatile Organic Compounds

Sample Name: 1213GW101CL
Lab Code: D0600543-001

Units: ug/L (ppb)
Basis: NA

Extraction SW5030
Analysis Method: SW8260

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	1	05/31/2006	05/31/2006	K0531W01	
Vinyl chloride	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Bromomethane	ND	U	1.0	1	05/31/2006	05/31/2006	K0531W01	
Chloroethane	ND	U	1.0	1	05/31/2006	05/31/2006	K0531W01	
1,1-Dichloroethene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Acetone	ND	U	10	1	05/31/2006	05/31/2006	K0531W01	
Carbon disulfide	ND	U	5.0	1	05/31/2006	05/31/2006	K0531W01	
Methylene chloride	ND	U	4.5	1	05/31/2006	05/31/2006	K0531W01	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Tert-butylmethylether	ND	U	2.0	1	05/31/2006	05/31/2006	K0531W01	
1,1-Dichloroethane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Vinyl acetate	ND	U	10	1	05/31/2006	05/31/2006	K0531W01	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
1,2-Dichloroethene (total)	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
2-Butanone	ND	U	10	1	05/31/2006	05/31/2006	K0531W01	
Chloroform	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
1,1,1-Trichloroethane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Carbon tetrachloride	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Benzene	**11**		0.50	1	05/31/2006	05/31/2006	K0531W01	
1,2-Dichloroethane	**8.0**		0.50	1	05/31/2006	05/31/2006	K0531W01	
Trichloroethene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
1,2-Dichloropropane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Bromodichloromethane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
4-methyl-2-pentanone	ND	U	10	1	05/31/2006	05/31/2006	K0531W01	
Toluene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
1,1,2-Trichloroethane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Tetrachloroethene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
2-Hexanone	ND	U	10	1	05/31/2006	05/31/2006	K0531W01	
Dibromochloromethane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Chlorobenzene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Ethylbenzene	**0.63**		0.50	1	05/31/2006	05/31/2006	K0531W01	
Xylene (total)	ND	U	1.0	1	05/31/2006	05/31/2006	K0531W01	
Styrene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Bromoform	ND	U	1.0	1	05/31/2006	05/31/2006	K0531W01	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: 05/24/2006
Date Received: 05/26/2006

Volatile Organic Compounds

Sample Name: 1213GW101CL
Lab Code: D0600543-001
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichlorobenzene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
1,4-Dichlorobenzene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
1,2-Dichlorobenzene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	91	76-114	05/31/2006	
4-Bromofluorobenzene - SS	108	86-115	05/31/2006	
Toluene-d8 - SS	103	88-110	05/31/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: 05/24/2006
Date Received: 05/26/2006

Volatile Organic Compounds

Sample Name: 1349MW100CL
Lab Code: D0600543-002

Units: ug/L (ppb)
Basis: NA

Extraction SW5030
Analysis Method: SW8260

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	1	05/31/2006	05/31/2006	K0531W01	
Vinyl chloride	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Bromomethane	ND	U	1.0	1	05/31/2006	05/31/2006	K0531W01	
Chloroethane	ND	U	1.0	1	05/31/2006	05/31/2006	K0531W01	
1,1-Dichloroethene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Acetone	ND	U	10	1	05/31/2006	05/31/2006	K0531W01	
Carbon disulfide	ND	U	5.0	1	05/31/2006	05/31/2006	K0531W01	
Methylene chloride	ND	U	4.5	1	05/31/2006	05/31/2006	K0531W01	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Tert-butylmethylether	ND	U	2.0	1	05/31/2006	05/31/2006	K0531W01	
1,1-Dichloroethane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Vinyl acetate	ND	U	10	1	05/31/2006	05/31/2006	K0531W01	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
1,2-Dichloroethene (total)	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
2-Butanone	ND	U	10	1	05/31/2006	05/31/2006	K0531W01	
Chloroform	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
1,1,1-Trichloroethane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Carbon tetrachloride	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Benzene	**30**		0.50	1	05/31/2006	05/31/2006	K0531W01	
1,2-Dichloroethane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Trichloroethene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
1,2-Dichloropropane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Bromodichloromethane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
4-methyl-2-pentanone	ND	U	10	1	05/31/2006	05/31/2006	K0531W01	
Toluene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
1,1,2-Trichloroethane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Tetrachloroethene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
2-Hexanone	ND	U	10	1	05/31/2006	05/31/2006	K0531W01	
Dibromochloromethane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Chlorobenzene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Ethylbenzene	**0.90**		0.50	1	05/31/2006	05/31/2006	K0531W01	
Xylene (total)	**4.2**		1.0	1	05/31/2006	05/31/2006	K0531W01	
Styrene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Bromoform	ND	U	1.0	1	05/31/2006	05/31/2006	K0531W01	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: 05/24/2006
Date Received: 05/26/2006

Volatile Organic Compounds

Sample Name: 1349MW100CL
Lab Code: D0600543-002
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichlorobenzene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
1,4-Dichlorobenzene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
1,2-Dichlorobenzene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	94	76-114	05/31/2006	
4-Bromofluorobenzene - SS	101	86-115	05/31/2006	
Toluene-d8 - SS	101	88-110	05/31/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: 05/24/2006
Date Received: 05/26/2006

Volatile Organic Compounds

Sample Name: 1065MW9ACL
Lab Code: D0600543-003
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tert-butylmethylether	ND	U	2.0	1	05/31/2006	05/31/2006	K0531W01	
Benzene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Toluene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Ethylbenzene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Xylene (total)	ND	U	1.0	1	05/31/2006	05/31/2006	K0531W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	85	76-114	05/31/2006	
4-Bromofluorobenzene - SS	101	86-115	05/31/2006	
Toluene-d8 - SS	94	88-110	05/31/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: 05/24/2006
Date Received: 05/26/2006

Volatile Organic Compounds

Sample Name: TB0524061ACL
Lab Code: D0600543-005

Units: ug/L (ppb)
Basis: NA

Extraction SW5030
Analysis Method: SW8260

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	1	05/31/2006	05/31/2006	K0531W01	
Vinyl chloride	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Bromomethane	ND	U	1.0	1	05/31/2006	05/31/2006	K0531W01	
Chloroethane	ND	U	1.0	1	05/31/2006	05/31/2006	K0531W01	
1,1-Dichloroethene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Acetone	ND	U	10	1	05/31/2006	05/31/2006	K0531W01	
Carbon disulfide	ND	U	5.0	1	05/31/2006	05/31/2006	K0531W01	
Methylene chloride	ND	U	4.5	1	05/31/2006	05/31/2006	K0531W01	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Tert-butylmethylether	ND	U	2.0	1	05/31/2006	05/31/2006	K0531W01	
1,1-Dichloroethane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Vinyl acetate	ND	U	10	1	05/31/2006	05/31/2006	K0531W01	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
1,2-Dichloroethene (total)	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
2-Butanone	ND	U	10	1	05/31/2006	05/31/2006	K0531W01	
Chloroform	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
1,1,1-Trichloroethane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Carbon tetrachloride	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Benzene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
1,2-Dichloroethane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Trichloroethene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
1,2-Dichloropropane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Bromodichloromethane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
4-methyl-2-pentanone	ND	U	10	1	05/31/2006	05/31/2006	K0531W01	
Toluene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
1,1,2-Trichloroethane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Tetrachloroethene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
2-Hexanone	ND	U	10	1	05/31/2006	05/31/2006	K0531W01	
Dibromochloromethane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Chlorobenzene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Ethylbenzene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Xylene (total)	ND	U	1.0	1	05/31/2006	05/31/2006	K0531W01	
Styrene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Bromoform	ND	U	1.0	1	05/31/2006	05/31/2006	K0531W01	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: 05/24/2006
Date Received: 05/26/2006

Volatile Organic Compounds

Sample Name: TB0524061ACL
Lab Code: D0600543-005
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichlorobenzene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
1,4-Dichlorobenzene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
1,2-Dichlorobenzene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	87	76-114	05/31/2006	
4-Bromofluorobenzene - SS	102	86-115	05/31/2006	
Toluene-d8 - SS	105	88-110	05/31/2006	

Comments: _____

QC Summary

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: K0531W01
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	1	05/31/2006	05/31/2006	K0531W01	
Vinyl chloride	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Bromomethane	ND	U	1.0	1	05/31/2006	05/31/2006	K0531W01	
Chloroethane	ND	U	1.0	1	05/31/2006	05/31/2006	K0531W01	
1,1-Dichloroethene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Acetone	ND	U	10	1	05/31/2006	05/31/2006	K0531W01	
Carbon disulfide	ND	U	5.0	1	05/31/2006	05/31/2006	K0531W01	
Methylene chloride	ND	U	4.5	1	05/31/2006	05/31/2006	K0531W01	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Tert-butylmethylether	ND	U	2.0	1	05/31/2006	05/31/2006	K0531W01	
1,1-Dichloroethane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Vinyl acetate	ND	U	10	1	05/31/2006	05/31/2006	K0531W01	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
1,2-Dichloroethene (total)	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
2-Butanone	ND	U	10	1	05/31/2006	05/31/2006	K0531W01	
Chloroform	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
1,1,1-Trichloroethane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Carbon tetrachloride	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Benzene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
1,2-Dichloroethane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Trichloroethene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
1,2-Dichloropropane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Bromodichloromethane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
4-methyl-2-pentanone	ND	U	10	1	05/31/2006	05/31/2006	K0531W01	
Toluene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
1,1,2-Trichloroethane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Tetrachloroethene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
2-Hexanone	ND	U	10	1	05/31/2006	05/31/2006	K0531W01	
Dibromochloromethane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Chlorobenzene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Ethylbenzene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Xylene (total)	ND	U	1.0	1	05/31/2006	05/31/2006	K0531W01	
Styrene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
Bromoform	ND	U	1.0	1	05/31/2006	05/31/2006	K0531W01	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: K0531W01
Extraction SW5030
Analysis Method: SW8260

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichlorobenzene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
1,4-Dichlorobenzene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	
1,2-Dichlorobenzene	ND	U	0.50	1	05/31/2006	05/31/2006	K0531W01	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4 - SS	97	76-114	05/31/2006	
4-Bromofluorobenzene - SS	109	86-115	05/31/2006	
Toluene-d8 - SS	102	88-110	05/31/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543

Surrogate Recovery Summary
Volatile Organic Compounds

Prep Method: SW5030
Analysis Method: SW8260

Units: Percent

Sample Name	Lab Code	Q	S1	S2	S3
Laboratory Control Sample	K0531W01LCS		91	98	109
Laboratory Control Sample Duplicate	K0531W01LCSD		88	95	105
Method Blank	K0531W01		97	109	102
1213GW101CL	D0600543-001		91	108	103
1349MW100CL	D0600543-002		94	101	101
1065MW9ACL	D0600543-003		85	101	94
TB0524061ACL	D0600543-005		87	102	105

Surrogate Recovery Control Limits (%)

S1:	1,2-Dichloroethane-d4 - SS	76-114
S2:	4-Bromofluorobenzene - SS	86-115
S3:	Toluene-d8 - SS	88-110

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	Treadwell and Rollo, Inc.	**Service Request:**	D0600543
Project:	Presidio	**Date Analyzed:**	05/31/2006
		Time Analyzed:	1148

Internal Standard Area and RT Summary
Volatile Organic Compounds

File ID:	K063315		
Instrument ID:	MSK	**Analysis Lot:**	MSK05/31/2006
Analysis Method:	SW8260		

	Fluorobenzene		Chlorobenzene-d5		1,4-Dichlorobenzene-d4	
	Area	RT	Area	RT	Area	RT
Results ==>	3078143	9.74	1639899	13.09	456263	15.68
Upper Limit ==>	6156286	10.24	3279798	13.59	912526	16.18
Lower Limit ==>	1539072	9.24	819950	12.59	228132	15.18

Associated Analyses

Laboratory Control Sample	K0531W01LCS	2848924	9.76	1489920	13.09	428538	15.68
Laboratory Control Sample Duplicate	K0531W01LCSD	3110352	9.75	1646144	13.09	461988	15.68
Method Blank	K0531W01	2716138	9.76	1547097	13.09	374158	15.68
1213GW101CL	D0600543-001	2881600	9.76	1555560	13.09	384073	15.68
1349MW100CL	D0600543-002	2867732	9.76	1637789	13.09	441714	15.68
1065MW9ACL	D0600543-003	3153178	9.76	1754596	13.09	481190	15.69
TB0524061ACL	D0600543-005	3186728	9.76	1687786	13.09	464085	15.69

Column used to flag values outside of QC limits with an asterisk

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	Treadwell and Rollo, Inc.	**Service Request:**	D0600543
Project:	Presidio	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	05/31/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Volatile Organic Compounds

LCS Sample	Lab Control Sample	**DMS Sample**	Lab Control Sample Duplicate
Lab Code:	K0531W01LCS	**Units:**	ug/L (ppb)
Test Notes:			

Analyte	Prep Method	Analysis Method	PQL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
1,1-Dichloroethene	SW5030	SW8260	0.50	10.0	10.0	9.47	100	95	65-135	5	
Benzene	SW5030	SW8260	0.50	10.0	10.3	9.90	103	99	65-135	4	
Trichloroethene	SW5030	SW8260	0.50	10.0	9.06	8.84	91	88	65-135	2	
Toluene	SW5030	SW8260	0.50	10.0	10.8	10.3	108	103	65-135	5	
Chlorobenzene	SW5030	SW8260	0.50	10.0	10.5	10.0	105	100	65-135	5	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client:	Treadwell and Rollo, Inc.	**Service Request:**	D0600543
Project:	Presidio	**Date Extracted:**	05/31/2006
Sample Matrix:	Water	**Date Analyzed:**	05/31/2006
		Time Analyzed:	14:00

Method Blank Summary
Volatile Organic Compounds

Extaction Method: SW5030
Analysis Method: SW8260

Extraction Lot: K0531W01

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	K0531W01LCS	K063316	05/31/2006	12:14
Laboratory Control Sample Duplicate	K0531W01LCSD	K063317	05/31/2006	12:41
1213GW101CL	D0600543-001	K063323	05/31/2006	15:19
1349MW100CL	D0600543-002	K063324	05/31/2006	15:45
1065MW9ACL	D0600543-003	K063326	05/31/2006	16:38
TB0524061ACL	D0600543-005	K063327	05/31/2006	17:05

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
Date Analyzed: 05/15/2006
Time Analyzed: 0814

Tune Summary
Volatile Organic Compounds

File ID: K062737
Instrument ID: MSK
Column: DB-624

Analysis Method: SW8260
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	19.4	101440	PASS
75	95	30	60	43.0	224960	PASS
95	95	100	100	100.0	523136	PASS
96	95	5	9	6.5	34224	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	80.9	423040	PASS
175	174	5	9	7.2	30248	PASS
176	174	95	101	97.6	412928	PASS
177	176	5	9	6.5	26648	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
VSTD00.5	VSTD00.5	K062745	05/15/2006	1149	
VSTD001	VSTD001	K062746	05/15/2006	1216	
VSTD005	VSTD005	K062747	05/15/2006	1242	
VSTD010	VSTD010	K062748	05/15/2006	1309	
VSTD020	VSTD020	K062749	05/15/2006	1335	
VSTD040	VSTD040	K062750	05/15/2006	1402	
VSTD100	VSTD100	K062751	05/15/2006	1428	
QCALTSTD	QCALTSTD	K062755	05/15/2006	1614	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
Date Analyzed: 05/31/2006
Time Analyzed: 1000

Tune Summary
Volatile Organic Compounds

File ID: K063311
Instrument ID: MSK
Column: DB-624

Analysis Method: SW8260
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	18.3	161344	PASS
75	95	30	60	41.2	362624	PASS
95	95	100	100	100.0	879680	PASS
96	95	5	9	6.7	59240	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	77.9	684992	PASS
175	174	5	9	7.2	49168	PASS
176	174	95	101	96.4	660544	PASS
177	176	5	9	6.6	43472	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
VSTD010	VSTD010	K063315	05/31/2006	1148	
Laboratory Control Sample	K0531W01LCS	K063316	05/31/2006	1214	
Laboratory Control Sample Duplicate	K0531W01LCSD	K063317	05/31/2006	1241	
Method Blank	K0531W01	K063320	05/31/2006	1400	
1213GW101CL	D0600543-001	K063323	05/31/2006	1519	
1349MW100CL	D0600543-002	K063324	05/31/2006	1545	
1065MW9ACL	D0600543-003	K063326	05/31/2006	1638	
TB0524061ACL	D0600543-005	K063327	05/31/2006	1705	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Standards Data

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
ICAL Date: 05/15/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 05/15/2006MSK
Instrument ID: MSK

Column: DB-624

Level ID	File ID	Level ID	File ID
A	K062745	F	K062746
B	K062747	G	K062751
C	K062748		
D	K062749		
E	K062750		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
* Chloromethane	A	0.500	0.237	B	5.000	0.182	C	10.00	0.180	D	20.00	0.181	E	40.00	0.188
				G	100.0	0.216									
# Vinyl chloride	A	0.500	0.263	B	5.000	0.225	C	10.00	0.221	D	20.00	0.213	E	40.00	0.226
				G	100.0	0.222									
Bromomethane	A	0.500	0.196	B	5.000	0.151	C	10.00	0.152	D	20.00	0.155	E	40.00	0.168
				G	100.0	0.166									
Chloroethane	A	0.500	0.133	B	5.000	0.113	C	10.00	0.113	D	20.00	0.105	E	40.00	0.109
				G	100.0	0.102									
# 1,1-Dichloroethene	A	0.500	0.238	B	5.000	0.199	C	10.00	0.195	D	20.00	0.198	E	40.00	0.193
				G	100.0	0.178									
Acetone				B	25.00	0.064	C	50.00	0.068	D	100.0	0.066	E	200.0	0.067
	F	5.000	0.097	G	500.0	0.063									
Carbon disulfide	A	0.500	0.752	B	5.000	0.717	C	10.00	0.712	D	20.00	0.714	E	40.00	0.744
				G	100.0	0.703									
Methylene chloride	A	0.500	0.315	B	5.000	0.282	C	10.00	0.277	D	20.00	0.271	E	40.00	0.277
				G	100.0	0.260									
trans-1,2-Dichloroethene	A	0.500	0.306	B	5.000	0.256	C	10.00	0.247	D	20.00	0.247	E	40.00	0.248
				G	100.0	0.231									
Tert-butylmethylether	A	0.500	0.627	B	5.000	0.575	C	10.00	0.571	D	20.00	0.569	E	40.00	0.582
				G	100.0	0.553									
* 1,1-Dichloroethane	A	0.500	0.529	B	5.000	0.501	C	10.00	0.490	D	20.00	0.478	E	40.00	0.484
				G	100.0	0.450									
Vinyl acetate	A	0.500	1.145	B	5.000	1.097	C	10.00	1.067	D	20.00	1.044	E	40.00	1.059
				G	100.0	0.969									
cis-1,2-Dichloroethene	A	0.500	0.337	B	5.000	0.294	C	10.00	0.288	D	20.00	0.281	E	40.00	0.289
				G	100.0	0.266									
1,2-Dichloroethene (total)	A	1.000	0.322	B	10.00	0.275	C	20.00	0.267	D	40.00	0.264	E	80.00	0.268
				G	200.0	0.249									
2-Butanone				B	25.00	0.105	C	50.00	0.108	D	100.0	0.108	E	200.0	0.114
	F	5.000	0.114	G	500.0	0.105									
# Chloroform	A	0.500	0.723	B	5.000	0.523	C	10.00	0.506	D	20.00	0.499	E	40.00	0.507
				G	100.0	0.475									
1,1,1-Trichloroethane	A	0.500	0.380	B	5.000	0.370	C	10.00	0.362	D	20.00	0.364	E	40.00	0.378
				G	100.0	0.366									

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
ICAL Date: 05/15/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 05/15/2006MSK
Instrument ID: MSK

Column: DB-624

Level ID	File ID	Level ID	File ID
A	K062745	F	K062746
B	K062747	G	K062751
C	K062748		
D	K062749		
E	K062750		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Carbon tetrachloride	A	0.500	0.268	B	5.000	0.257	C	10.00	0.263	D	20.00	0.266	E	40.00	0.285
				G	100.0	0.278									
Benzene	A	0.500	1.160	B	5.000	1.030	C	10.00	1.034	D	20.00	1.014	E	40.00	1.062
				G	100.0	0.879									
1,2-Dichloroethane	A	0.500	0.383	B	5.000	0.362	C	10.00	0.358	D	20.00	0.350	E	40.00	0.358
				G	100.0	0.337									
Trichloroethene	A	0.500	0.402	B	5.000	0.295	C	10.00	0.291	D	20.00	0.288	E	40.00	0.298
				G	100.0	0.291									
# 1,2-Dichloropropane	A	0.500	0.334	B	5.000	0.303	C	10.00	0.300	D	20.00	0.299	E	40.00	0.306
				G	100.0	0.301									
Bromodichloromethane	A	0.500	0.359	B	5.000	0.355	C	10.00	0.358	D	20.00	0.362	E	40.00	0.377
				G	100.0	0.367									
cis-1,3-Dichloropropene	A	0.500	0.445	B	5.000	0.439	C	10.00	0.440	D	20.00	0.439	E	40.00	0.468
				G	100.0	0.456									
4-methyl-2-pentanone				B	25.00	0.256	C	50.00	0.253	D	100.0	0.255	E	200.0	0.268
	F	5.000	0.259												
# Toluene	A	0.500	1.132	B	5.000	1.058	C	10.00	1.042	D	20.00	1.055	E	40.00	1.086
				G	100.0	1.200									
trans-1,3-Dichloropropene	A	0.500	0.642	B	5.000	0.637	C	10.00	0.634	D	20.00	0.644	E	40.00	0.696
				G	100.0	0.749									
1,1,2-Trichloroethane	A	0.500	0.370	B	5.000	0.336	C	10.00	0.332	D	20.00	0.331	E	40.00	0.342
				G	100.0	0.358									
Tetrachloroethene	A	0.500	0.541	B	5.000	0.449	C	10.00	0.446	D	20.00	0.441	E	40.00	0.464
				G	100.0	0.506									
2-Hexanone				B	25.00	0.277	C	50.00	0.279	D	100.0	0.282	E	200.0	0.283
	F	5.000	0.292	G	500.0	0.210									
Dibromochloromethane	A	0.500	0.371	B	5.000	0.388	C	10.00	0.388	D	20.00	0.408	E	40.00	0.433
				G	100.0	0.461									
* Chlorobenzene	A	0.500	1.141	B	5.000	1.024	C	10.00	1.011	D	20.00	1.009	E	40.00	1.041
				G	100.0	1.062									
# Ethylbenzene	A	0.500	1.831	B	5.000	1.660	C	10.00	1.670	D	20.00	1.641	E	40.00	1.620
				G	100.0	1.503									
Xylene (total)	A	1.500	0.571	B	15.00	0.527	C	30.00	0.521	D	60.00	0.520	E	120.0	0.523
				G	300.0	0.555									

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
ICAL Date: 05/15/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 05/15/2006MSK
Instrument ID: MSK

Column: DB-624

Level ID	File ID	Level ID	File ID
A	K062745	F	K062746
B	K062747	G	K062751
C	K062748		
D	K062749		
E	K062750		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Styrene	A	0.500	0.843	B	5.000	0.851	C	10.00	0.843	D	20.00	0.858	E	40.00	0.858
				G	100.0	0.890									
* Bromoform	A	0.500	0.192	B	5.000	0.201	C	10.00	0.210	D	20.00	0.222	E	40.00	0.230
				G	100.0	0.221									
* 1,1,2,2-Tetrachloroethane	A	0.500	1.289	B	5.000	1.184	C	10.00	1.159	D	20.00	1.112	E	40.00	1.048
				G	100.0	0.931									
1,3-Dichlorobenzene	A	0.500	1.689	B	5.000	1.563	C	10.00	1.528	D	20.00	1.544	E	40.00	1.586
				G	100.0	1.602									
1,4-Dichlorobenzene	A	0.500	1.779	B	5.000	1.577	C	10.00	1.562	D	20.00	1.592	E	40.00	1.629
				G	100.0	1.613									
1,2-Dichlorobenzene	A	0.500	1.521	B	5.000	1.401	C	10.00	1.387	D	20.00	1.446	E	40.00	1.480
				G	100.0	1.481									
1,2-dichloroethane-d4				B	5.000	0.277	C	10.00	0.273	D	20.00	0.252	E	40.00	0.268
	F	1.000	0.295												
Toluene-d8				B	5.000	1.388	C	10.00	1.359	D	20.00	1.318	E	40.00	1.424
	F	1.000	1.438												
Bromofluorobenzene				B	5.000	1.057	C	10.00	1.045	D	20.00	1.002	E	40.00	0.988
	F	1.000	1.261												

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
ICAL Date: 05/15/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 05/15/2006MSK
Instrument ID: MSK
Mean RSD: 6.93

Column: DB-624

	Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria	RRF Evaluation Average RRF	Q	Miniumum RRF
*	Chloromethane	TRG	AverageRF	% RSD	12.0		15.0	0.197		0.10
#	Vinyl chloride	TRG	AverageRF	% RSD	7.8		15.0	0.228		0.01
	Bromomethane	TRG	AverageRF	% RSD	10.2		15.0	0.165		0.01
	Chloroethane	TRG	AverageRF	% RSD	9.6		15.0	0.112		0.01
#	1,1-Dichloroethene	TRG	AverageRF	% RSD	10.1		15.0	0.200		0.01
	Acetone	TRG	Linear	r	1.000		0.995	0.071		0.01
	Carbon disulfide	TRG	AverageRF	% RSD	2.7		15.0	0.724		0.01
	Methylene chloride	TRG	AverageRF	% RSD	6.6		15.0	0.280		0.01
	trans-1,2-Dichloroethene	TRG	AverageRF	% RSD	10.1		15.0	0.256		0.01
	Tert-butylmethylether	TRG	AverageRF	% RSD	4.3		15.0	0.580		0.01
*	1,1-Dichloroethane	TRG	AverageRF	% RSD	5.3		15.0	0.489		0.10
	Vinyl acetate	TRG	AverageRF	% RSD	5.5		15.0	1.064		0.01
	cis-1,2-Dichloroethene	TRG	AverageRF	% RSD	8.2		15.0	0.292		0.01
	1,2-Dichloroethene (total)	TRG	AverageRF	% RSD	9.1		15.0	0.274		0.01
	2-Butanone	TRG	AverageRF	% RSD	4.0		15.0	0.109		0.01
#	Chloroform	TRG	Linear	r	1.000		0.995	0.539		0.01
	1,1,1-Trichloroethane	TRG	AverageRF	% RSD	2.0		15.0	0.370		0.01
	Carbon tetrachloride	TRG	AverageRF	% RSD	3.8		15.0	0.270		0.01
	Benzene	TRG	AverageRF	% RSD	8.8		15.0	1.030		0.01
	1,2-Dichloroethane	TRG	AverageRF	% RSD	4.3		15.0	0.358		0.01
	Trichloroethene	TRG	AverageRF	% RSD	14.4		15.0	0.311		0.01
#	1,2-Dichloropropane	TRG	AverageRF	% RSD	4.3		15.0	0.307		0.01
	Bromodichloromethane	TRG	AverageRF	% RSD	2.2		15.0	0.363		0.01
	cis-1,3-Dichloropropene	TRG	AverageRF	% RSD	2.6		15.0	0.448		0.01
	4-methyl-2-pentanone	TRG	AverageRF	% RSD	2.2		15.0	0.258		0.01
#	Toluene	TRG	AverageRF	% RSD	5.5		15.0	1.096		0.01
	trans-1,3-Dichloropropene	TRG	AverageRF	% RSD	6.9		15.0	0.667		0.01
	1,1,2-Trichloroethane	TRG	AverageRF	% RSD	4.6		15.0	0.345		0.01
	Tetrachloroethene	TRG	AverageRF	% RSD	8.5		15.0	0.474		0.01
	2-Hexanone	TRG	AverageRF	% RSD	11.2		15.0	0.270		0.01
	Dibromochloromethane	TRG	AverageRF	% RSD	8.2		15.0	0.408		0.01
*	Chlorobenzene	TRG	AverageRF	% RSD	4.7		15.0	1.048		0.30
#	Ethylbenzene	TRG	AverageRF	% RSD	6.4		15.0	1.654		0.01
	Xylene (total)	TRG	AverageRF	% RSD	4.0		15.0	0.536		0.01
	Styrene	TRG	AverageRF	% RSD	2.0		15.0	0.857		0.01
*	Bromoform	TRG	AverageRF	% RSD	6.8		15.0	0.213		0.10
*	1,1,2,2-Tetrachloroethane	TRG	AverageRF	% RSD	10.9		15.0	1.120		0.30

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
ICAL Date: 05/15/2006

Initial Calibration Summary
Volatile Organic Compounds

ICAL ID: 05/15/2006MSK
Instrument ID: MSK
Mean RSD: 6.93

Column: DB-624

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria	RRF Evaluation Average RRF	Q	Miniumum RRF
1,3-Dichlorobenzene	TRG	AverageRF	% RSD	3.6		15.0	1.585		0.01
1,4-Dichlorobenzene	TRG	AverageRF	% RSD	4.9		15.0	1.625		0.01
1,2-Dichlorobenzene	TRG	AverageRF	% RSD	3.5		15.0	1.453		0.01
1,2-dichloroethane-d4	SUR	AverageRF	% RSD	5.6		15.0	0.273		0.01
Toluene-d8	SUR	AverageRF	% RSD	3.5		15.0	1.385		0.01
Bromofluorobenzene	SUR	AverageRF	% RSD	10.3		15.0	1.071		0.01

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
Date Analyzed: 05/15/2006

Second Source Calibration Verification
Volatile Organic Compounds

ICAL ID: 05/15/2006MSK
Instrument ID: MSK
File ID: K062755

Column: DB-624

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Chloromethane	10.0	8.172	0.197	0.161	-18.3	NA	+/- 40.0	AverageRF	
Vinyl chloride	10.0	7.918	0.228	0.181	-20.8	NA	+/- 20.0	AverageRF	
Bromomethane	10.0	7.924	0.165	0.130	-20.8	NA	+/- 40.0	AverageRF	
Chloroethane	10.0	8.459	0.113	0.095	-15.4	NA	+/- 40.0	AverageRF	
1,1-Dichloroethene	10.0	10.48	0.200	0.210	4.8	NA	+/- 20.0	AverageRF	
Acetone	50.0	46.61	0.071	0.064	NA	-6.8	+/- 40.0	Linear	
Carbon disulfide	10.0	8.294	0.724	0.600	-17.1	NA	+/- 40.0	AverageRF	
Methylene chloride	10.0	9.706	0.281	0.272	-2.9	NA	+/- 40.0	AverageRF	
trans-1,2-Dichloroethene	10.0	9.850	0.256	0.252	-1.5	NA	+/- 40.0	AverageRF	
Tert-butylmethylether	10.0	9.859	0.579	0.571	-1.4	NA	+/- 40.0	AverageRF	
1,1-Dichloroethane	10.0	10.23	0.489	0.500	2.3	NA	+/- 40.0	AverageRF	
Vinyl acetate	10.0	8.878	1.064	0.944	-11.2	NA	+/- 40.0	AverageRF	
cis-1,2-Dichloroethene	10.0	10.13	0.293	0.297	1.3	NA	+/- 40.0	AverageRF	
1,2-Dichloroethene (total)	N/A	N/A	0.274	0.274	-0.0	NA	+/- 40.0	AverageRF	
2-Butanone	50.0	48.64	0.109	0.106	-2.7	NA	+/- 40.0	AverageRF	
Chloroform	10.0	9.841	0.539	0.509	NA	-1.6	+/- 20.0	Linear	
1,1,1-Trichloroethane	10.0	10.10	0.370	0.374	1.0	NA	+/- 40.0	AverageRF	
Carbon tetrachloride	10.0	9.940	0.270	0.268	-0.6	NA	+/- 40.0	AverageRF	
Benzene	10.0	10.12	1.030	1.043	1.2	NA	+/- 40.0	AverageRF	
1,2-Dichloroethane	10.0	9.830	0.358	0.352	-1.7	NA	+/- 40.0	AverageRF	
Trichloroethene	10.0	10.01	0.311	0.312	0.1	NA	+/- 40.0	AverageRF	
1,2-Dichloropropane	10.0	10.04	0.307	0.308	0.4	NA	+/- 20.0	AverageRF	
Bromodichloromethane	10.0	10.23	0.363	0.372	2.3	NA	+/- 40.0	AverageRF	
cis-1,3-Dichloropropene	10.0	10.06	0.448	0.451	0.6	NA	+/- 40.0	AverageRF	
4-methyl-2-pentanone	50.0	53.10	0.258	0.274	6.2	NA	+/- 40.0	AverageRF	
Toluene	10.0	9.500	1.096	1.041	-5.0	NA	+/- 20.0	AverageRF	
trans-1,3-Dichloropropene	10.0	9.218	0.667	0.615	-7.8	NA	+/- 40.0	AverageRF	
1,1,2-Trichloroethane	10.0	9.744	0.345	0.336	-2.6	NA	+/- 40.0	AverageRF	
Tetrachloroethene	10.0	9.559	0.475	0.454	-4.4	NA	+/- 40.0	AverageRF	
2-Hexanone	50.0	55.45	0.271	0.300	10.9	NA	+/- 40.0	AverageRF	
Dibromochloromethane	10.0	9.830	0.408	0.401	-1.7	NA	+/- 40.0	AverageRF	
Chlorobenzene	10.0	9.885	1.048	1.036	-1.1	NA	+/- 40.0	AverageRF	
Ethylbenzene	10.0	9.987	1.654	1.652	-0.1	NA	+/- 20.0	AverageRF	
Xylene (total)	N/A	N/A	0.536	0.530	-1.1	NA	+/- 40.0	AverageRF	
Styrene	10.0	10.02	0.857	0.859	0.2	NA	+/- 40.0	AverageRF	
Bromoform	10.0	10.78	0.213	0.229	7.8	NA	+/- 40.0	AverageRF	
1,1,2,2-Tetrachloroethane	10.0	10.24	1.121	1.147	2.4	NA	+/- 40.0	AverageRF	
1,3-Dichlorobenzene	10.0	10.41	1.585	1.650	4.1	NA	+/- 40.0	AverageRF	
1,4-Dichlorobenzene	10.0	10.62	1.625	1.726	6.2	NA	+/- 40.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
Date Analyzed: 05/15/2006

Second Source Calibration Verification
Volatile Organic Compounds

ICAL ID: **05/15/2006MSK**
Instrument ID: **MSK**
File ID: **K062755**

Column: DB-624

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
1,2-Dichlorobenzene	10.0	10.38	1.453	1.507	3.8	NA	+/- 40.0	AverageRF	
1,2-dichloroethane-d4	N/A	N/A	0.273	0.274	0.0	NA	+/- 40.0	AverageRF	
Toluene-d8	N/A	N/A	1.385	1.390	0.0	NA	+/- 40.0	AverageRF	
Bromofluorobenzene	N/A	N/A	1.071	1.131	0.0	NA	+/- 40.0	AverageRF	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
Date Analyzed: 05/31/2006

Continuing Calibration Verification Summary
Volatile Organic Compounds

ICAL ID: 05/15/2006MSK
Instrument ID: MSK
File ID: K063315

Column: DB-624

	Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
*	Chloromethane	10.0	8.330	0.10	0.197	0.164	-16.7	NA	+/- 40.0	AverageRF	
#	Vinyl chloride	10.0	9.282	0.01	0.228	0.212	-7.2	NA	+/- 20.0	AverageRF	
	Bromomethane	10.0	8.525	0.01	0.165	0.140	-14.8	NA	+/- 40.0	AverageRF	
	Chloroethane	10.0	10.02	0.01	0.113	0.113	0.2	NA	+/- 40.0	AverageRF	
#	1,1-Dichloroethene	10.0	9.636	0.01	0.200	0.193	-3.6	NA	+/- 20.0	AverageRF	
	Acetone	50.0	40.25	0.01	0.071	0.056	NA	-19.5	+/- 40.0	Linear	
	Carbon disulfide	10.0	9.704	0.01	0.724	0.702	-3.0	NA	+/- 40.0	AverageRF	
	Methylene chloride	10.0	9.763	0.01	0.281	0.274	-2.4	NA	+/- 40.0	AverageRF	
	trans-1,2-Dichloroethene	10.0	9.635	0.01	0.256	0.247	-3.6	NA	+/- 40.0	AverageRF	
	Tert-butylmethylether	10.0	8.302	0.01	0.579	0.481	-17.0	NA	+/- 40.0	AverageRF	
*	1,1-Dichloroethane	10.0	9.706	0.10	0.489	0.475	-2.9	NA	+/- 40.0	AverageRF	
	Vinyl acetate	10.0	9.149	0.01	1.064	0.973	-8.5	NA	+/- 40.0	AverageRF	
	cis-1,2-Dichloroethene	10.0	9.801	0.01	0.293	0.287	-2.0	NA	+/- 40.0	AverageRF	
	1,2-Dichloroethene (total)	20.0	19.44	0.01	0.274	0.267	-2.8	NA	+/- 40.0	AverageRF	
	2-Butanone	50.0	43.40	0.01	0.109	0.095	-13.2	NA	+/- 40.0	AverageRF	
#	Chloroform	10.0	9.329	0.01	0.539	0.485	NA	-6.7	+/- 20.0	Linear	
	1,1,1-Trichloroethane	10.0	8.706	0.01	0.370	0.322	-12.9	NA	+/- 40.0	AverageRF	
	Carbon tetrachloride	10.0	8.774	0.01	0.270	0.237	-12.3	NA	+/- 40.0	AverageRF	
	Benzene	10.0	9.944	0.01	1.030	1.024	-0.6	NA	+/- 40.0	AverageRF	
	1,2-Dichloroethane	10.0	8.365	0.01	0.358	0.299	-16.4	NA	+/- 40.0	AverageRF	
	Trichloroethene	10.0	8.609	0.01	0.311	0.268	-13.9	NA	+/- 40.0	AverageRF	
#	1,2-Dichloropropane	10.0	9.568	0.01	0.307	0.294	-4.3	NA	+/- 20.0	AverageRF	
	Bromodichloromethane	10.0	9.092	0.01	0.363	0.330	-9.1	NA	+/- 40.0	AverageRF	
	cis-1,3-Dichloropropene	10.0	8.979	0.01	0.448	0.402	-10.2	NA	+/- 40.0	AverageRF	
	4-methyl-2-pentanone	50.0	42.23	0.01	0.258	0.218	-15.5	NA	+/- 40.0	AverageRF	
#	Toluene	10.0	10.02	0.01	1.096	1.098	0.2	NA	+/- 20.0	AverageRF	
	trans-1,3-Dichloropropene	10.0	9.210	0.01	0.667	0.614	-7.9	NA	+/- 40.0	AverageRF	
	1,1,2-Trichloroethane	10.0	9.873	0.01	0.345	0.341	-1.3	NA	+/- 40.0	AverageRF	
	Tetrachloroethene	10.0	9.335	0.01	0.475	0.443	-6.6	NA	+/- 40.0	AverageRF	
	2-Hexanone	50.0	46.55	0.01	0.271	0.252	-6.9	NA	+/- 40.0	AverageRF	
	Dibromochloromethane	10.0	9.470	0.01	0.408	0.387	-5.3	NA	+/- 40.0	AverageRF	
*	Chlorobenzene	10.0	9.812	0.30	1.048	1.029	-1.9	NA	+/- 40.0	AverageRF	
#	Ethylbenzene	10.0	10.06	0.01	1.654	1.665	0.6	NA	+/- 20.0	AverageRF	
	Xylene (total)	30.0	29.77	0.01	0.536	0.532	-0.7	NA	+/- 40.0	AverageRF	
	Styrene	10.0	9.789	0.01	0.857	0.839	-2.1	NA	+/- 40.0	AverageRF	
*	Bromoform	10.0	9.103	0.10	0.213	0.194	-9.0	NA	+/- 40.0	AverageRF	
*	1,1,2,2-Tetrachloroethane	10.0	10.24	0.30	1.121	1.148	2.4	NA	+/- 40.0	AverageRF	
	1,3-Dichlorobenzene	10.0	10.07	0.01	1.585	1.596	0.7	NA	+/- 40.0	AverageRF	
	1,4-Dichlorobenzene	10.0	9.835	0.01	1.625	1.598	-1.6	NA	+/- 40.0	AverageRF	

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
Date Analyzed: 05/31/2006

Continuing Calibration Verification Summary
Volatile Organic Compounds

ICAL ID: 05/15/2006MSK
Instrument ID: MSK
File ID: K063315

Column: DB-624

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
1,2-Dichlorobenzene	10.0	10.07	0.01	1.453	1.463	0.7	NA	+/- 40.0	AverageRF	
1,2-dichloroethane-d4	10.0	8.704	0.01	0.273	0.238	-13.0	NA	+/- 40.0	AverageRF	
Toluene-d8	10.0	10.49	0.01	1.385	1.453	4.9	NA	+/- 40.0	AverageRF	
Bromofluorobenzene	10.0	9.873	0.01	1.071	1.057	-1.3	NA	+/- 40.0	AverageRF	

Results flagged with an asterisk (*) indicate values outside control criteria
* SPCC Compound # CCC Compound

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543

Analysis Run Log
Volatile Organic Compounds

Analysis Method: SW8260

Instrument ID: MSK
Column: DB-624

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
K062745	VSTD00.5	VSTD00.5	05/15/2006	11:49		05/15/2006	12:09
K062746	VSTD001	VSTD001	05/15/2006	12:16		05/15/2006	12:36
K062747	VSTD005	VSTD005	05/15/2006	12:42		05/15/2006	13:02
K062748	VSTD010	VSTD010	05/15/2006	13:09		05/15/2006	13:29
K062749	VSTD020	VSTD020	05/15/2006	13:35		05/15/2006	13:55
K062750	VSTD040	VSTD040	05/15/2006	14:02		05/15/2006	14:22
K062751	VSTD100	VSTD100	05/15/2006	14:28		05/15/2006	14:48
K062755	QCALTSTD	QCALTSTD	05/15/2006	16:14		05/15/2006	16:34
K063315	VSTD010	VSTD010	05/31/2006	11:48		05/31/2006	12:08
K063316	Laboratory Control Sample	K0531W01LCS	05/31/2006	12:14		05/31/2006	12:34
K063317	Laboratory Control Sample Duplicate	K0531W01LCSD	05/31/2006	12:41		05/31/2006	13:01
K063320	Method Blank	K0531W01	05/31/2006	14:00		05/31/2006	14:20
K063323	1213GW101CL	D0600543-001	05/31/2006	15:19		05/31/2006	15:39
K063324	1349MW100CL	D0600543-002	05/31/2006	15:45		05/31/2006	16:05
K063326	1065MW9ACL	D0600543-003	05/31/2006	16:38		05/31/2006	16:58
K063327	TB0524061ACL	D0600543-005	05/31/2006	17:05		05/31/2006	17:25

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Extracted: 05/31/2006

Extraction Prep Log
Volatile Organic Compounds

Extaction Method: SW5030
Analysis Method: SW8260

Extraction Lot: K0531W01

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	K0531W01	NA	NA	10.00 ML	10.00	NA	
Laboratory Control Sample	K0531W01LCS	NA	NA	10.00 ML	10.00	NA	
Laboratory Control Sample Duplicate	K0531W01LCSD	NA	NA	10.00 ML	10.00	NA	
1213GW101CL	D0600543-001	05/24/2006	05/26/2006	10.00 ML	10.00	NA	
1349MW100CL	D0600543-002	05/24/2006	05/26/2006	10.00 ML	10.00	NA	
1065MW9ACL	D0600543-003	05/24/2006	05/26/2006	10.00 ML	10.00	NA	
TB0524061ACL	D0600543-005	05/24/2006	05/26/2006	10.00 ML	10.00	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543

Holding Time Summary
Volatile Organic Compounds

Analysis Method: SW8260

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
1213GW101CL	05/24/2006	05/26/2006	N/A	N/A	N/A	N/A	N/A	N/A	05/31/2006	14	7	
1349MW100CL	05/24/2006	05/26/2006	N/A	N/A	N/A	N/A	N/A	N/A	05/31/2006	14	7	
1065MW9ACL	05/24/2006	05/26/2006	N/A	N/A	N/A	N/A	N/A	N/A	05/31/2006	14	7	
TB0524061ACL	05/24/2006	05/26/2006	N/A	N/A	N/A	N/A	N/A	N/A	05/31/2006	14	7	

Comments:

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: SW8260 Matrix: Water

Instrument ID: MSK

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
ETHYLBENZENE	01/06/2006	0.50	0.431	0.426	0.481	0.424	0.482	0.502	0.423	0.401	0.037	0.11
STYRENE	01/06/2006	0.50	0.307	0.293	0.319	0.285	0.345	0.343	0.281	0.307	0.024	0.073
CIS-1,3-DICHLOROPROPENE	01/06/2006	0.50	0.439	0.416	0.485	0.417	0.483	0.501	0.403	0.373	0.046	0.14
TRANS-1,3-DICHLOROPROPE	01/06/2006	0.50	0.420	0.453	0.469	0.432	0.458	0.475	0.418	0.392	0.029	0.086
1,4-DICHLOROBENZENE	01/06/2006	0.50	0.616	0.612	0.661	0.573	0.666	0.711	0.634	0.578	0.047	0.14
1,2-DICHLOROETHANE	01/06/2006	0.50	0.589	0.586	0.607	0.565	0.618	0.634	0.587	0.520	0.035	0.10
VINYL ACETATE	01/06/2006	0.50	0.768	0.777	0.812	0.755	0.884	0.818	0.722	0.614	0.079	0.24
4-METHYL-2-PENTANONE	01/06/2006	2.50	1.834	1.836	2.273	1.941	2.114	2.163	1.971	1.726	0.19	0.56
TOLUENE	01/06/2006	0.50	0.442	0.446	0.491	0.421	0.471	0.545	0.474	0.419	0.042	0.13
CHLOROBENZENE	01/06/2006	0.50	0.596	0.570	0.654	0.572	0.640	0.663	0.609	0.566	0.039	0.12
DIBROMOCHLOROMETHANE	01/06/2006	0.50	0.649	0.589	0.636	0.578	0.693	0.640	0.618	0.572	0.041	0.12
TETRACHLOROETHENE	01/06/2006	0.50	0.517	0.554	0.570	0.547	0.590	0.611	0.546	0.529	0.031	0.093
XYLENES (TOTAL)	01/06/2006											0.10
CIS-1,2-DICHLOROETHENE	01/06/2006	0.50	0.496	0.515	0.566	0.441	0.549	0.569	0.500	0.459	0.047	0.14
TRANS-1,2-DICHLOROETHEN	01/06/2006	0.50	0.517	0.537	0.634	0.534	0.581	0.556	0.595	0.463	0.052	0.16
TERT-BUTYLMETHYLETHER	01/06/2006	0.50	0.379	0.393	0.445	0.344	0.411	0.406	0.369	0.337	0.036	0.11
1,2-DICHLOROETHENE	01/06/2006											0.14
1,3-DICHLOROBENZENE	01/06/2006	0.50	0.495	0.561	0.563	0.492	0.601	0.594	0.505	0.480	0.049	0.15
CARBON TETRACHLORIDE	01/06/2006	0.50	0.608	0.632	0.681	0.569	0.688	0.671	0.604	0.618	0.042	0.13
2-HEXANONE	01/06/2006	2.50	1.938	1.741	2.013	1.615	1.934	1.849	2.014	1.622	0.16	0.49
ACETONE	01/06/2006	2.50	5.993	6.219	6.524	6.228	6.718	6.116	6.546	5.821	0.30	0.91
CHLOROFORM	01/06/2006	0.50	0.648	0.622	0.701	0.591	0.689	0.709	0.644	0.620	0.043	0.13
BENZENE	01/06/2006	0.50	0.525	0.521	0.548	0.514	0.568	0.603	0.488	0.474	0.042	0.13
1,1,1-TRICHLOROETHANE	01/06/2006	0.50	0.597	0.629	0.704	0.591	0.667	0.705	0.593	0.576	0.053	0.16
BROMOMETHANE	01/06/2006	0.50	0.706	0.711	0.651	0.639	0.727	0.714	0.686	0.692	0.031	0.093
CHLOROMETHANE	01/06/2006	0.50	0.803	0.820	0.897	0.780	0.849	0.900	0.751	0.660	0.080	0.24
CHLOROETHANE	01/06/2006	0.50	0.690	0.765	0.718	0.692	0.848	0.807	0.702	0.693	0.061	0.18
VINYL CHLORIDE	01/06/2006	0.50	0.645	0.657	0.667	0.659	0.735	0.748	0.623	0.582	0.055	0.16
METHYLENE CHLORIDE	01/06/2006	0.50	0.718	0.673	0.778	0.652	0.775	0.795	0.705	0.618	0.065	0.19
CARBON DISULFIDE	01/06/2006	0.50	0.565	0.547	0.612	0.521	0.595	0.623	0.518	0.506	0.045	0.14
BROMOFORM	01/06/2006	0.50	0.537	0.573	0.609	0.536	0.620	0.690	0.542	0.497	0.061	0.18
BROMODICHLOROMETHANE	01/06/2006	0.50	0.624	0.595	0.671	0.569	0.693	0.665	0.615	0.583	0.045	0.14
ISOPROPYLETHER	01/06/2006	0.50	0.376	0.392	0.446	0.356	0.439	0.429	0.383	0.366	0.035	0.10
1,1-DICHLOROETHENE	01/06/2006	0.50	0.607	0.547	0.664	0.541	0.644	0.649	0.607	0.541	0.051	0.15
1,2-DICHLOROPROPANE	01/06/2006	0.50	0.548	0.601	0.614	0.490	0.631	0.616	0.569	0.502	0.054	0.16
2-BUTANONE	01/06/2006	2.50	2.540	2.392	2.283	2.327	2.838	2.447	2.231	2.129	0.22	0.66

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: SW8260 Matrix: Water

Instrument ID: MSK

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
1,1,2-TRICHLOROETHANE	01/06/2006	0.50	0.600	0.666	0.651	0.557	0.719	0.678	0.626	0.629	0.050	0.15
TRICHLOROETHENE	01/06/2006	0.50	0.584	0.569	0.607	0.508	0.637	0.653	0.557	0.551	0.048	0.14
1,1,2,2-TETRACHLOROETHAN	01/06/2006	0.50	0.654	0.647	0.649	0.598	0.653	0.686	0.583	0.476	0.066	0.20
1,2-DICHLOROBENZENE	01/06/2006	0.50	0.474	0.504	0.565	0.486	0.553	0.546	0.500	0.458	0.040	0.12

SUPPORT DOCUMENTATION

Columbia Analytical Services

GC/MS VOA Injection Log

MSK; Karl

Date
05/15/06

Analyst: R

ICAL Date: 05/15/06

Method: SW 8468260

Internal Standard Std Prep # 8m8v-103-1

BFB / Surrogate Std Prep # 8m8v-105-1 5/15/06

Calibration Std Prep # 9m8v-5-1 E

QCALTSTD / LCS Std Prep # 9m8v-6-1 E

MS/MSD Std Prep # ↓

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Time	Filename	Laboratory ID	Vial#	Matrix	pH	DL Factor	Weight (g)	M%	Run OK?	Rept?	Comments
0814	K062737	BFB	NA	NA	NA	NA	NA	NA	✓	✓	
—	38	Systemquim							—	—	Acetone
0916	39	VSTD010							N	N	
0937	40	VSTD010							N	N	
1003	41	K051SW01LCS							N	N	
—	42	wash							—	—	
—	43	wash							—	—	
1123	44	VSTD00.3							✓	✓	
1149	45	VSTD00.5							✓	✓	
1216	46	VSTD001							✓	✓	
1242	47	VSTD005							✓	✓	
1309	48	VSTD010							✓	✓	
1335	49	VSTD020							✓	✓	
1402	50	VSTD040							✓	✓	
1428	51	VSTD060							✓	✓	
—	52	wash							—	—	
—	53	wash							—	—	
1548	54	QCALTSTD							✓	N	Use 2nd
1614	55	QCALTSTD							✓	✓	
1641	56	K051SW01LCS							✓	✓	
1707	57	K051SW01LCSD							✓	✓	
—	58	wash							—	—	
—	59	wash							—	—	
1827	60	K051SW01	↓		↓	↓			✓	✓	
1854	61	D060037I-012DL	.02		<2	2x			✓	✓	matrix
1920	62	D060039S-004	.01		<2	1x			✓	✓	
1947	63	-004MS	.01		<2	1x			✓	N	not requested
2013	64	-004MSD	.01	↓	<2	1x	↓	↓	✓	N	↓ ↓
	~~60~~ 65/15/06										
											TS/05/06

Last Analysis within 12-Hour clock? ☒ Yes ☐ No

CCV Used? ~~☐ #3~~ ☐ #4 IDAL

MS/MSD present? ~~☒~~ Yes ☐ No

Columbia Analytical Services

GC/MS VOA Injection Log

MSK; Karl

Date
05/31/06

Analyst: TC
ICAL Date: 05/15/06
Method: SW8468260

Internal Standard Std Prep # 9msv-103-1
BFB / Surrogate Std Prep # 9msv-6-2
Calibration Std Prep # 9msv-5-1E
QCALTSTD / LCS Std Prep # 9msv-6-1E
MS/MSD Std Prep # ↓

Page: 44

Time	Filename	Laboratory ID	Vial#	Matrix	pH	DL Factor	Weight (g)	M%	Run OK?	Rept?	Comments
1000	K063311	BFB	NA	WA	NA	NA	NA	NA	✓	✓	
—	12	Systemquimer							—	—	
—	13	Systemquimer							—	—	
1127	14	VSTD010							N	N	tbut
1148	15	VSTD010							N	✓	↓ (Mill DL's TCE only) NCF # 060610
1214	16	K0531W01LCS							✓	✓	
1241	17	K0531W01LCSD							✓	✓	
—	18	Wash							—	—	
—	19	Wash							—	—	
1400	20	K0531W01	↓		↓	↓			✓	✓	
1426	21	D0600498-003DL	.02		<2	100x			✓	✓	Mill (DL for TCE only)
1453	22	-004DL	.02		<2	100x			✓	✓	↓ ↓
1519	23	D0600543-001	.02		<2	1x			✓	✓	Presidio
1545	24	-002	.02		<2	1x			✓	✓	
1638	25 ~~26~~	-003	.02		<2	1x			✓	✓	BTEX+MTBE
1705	26 ~~27~~	-005	.01		<2	1x			✓	✓	↓
~~1417~~	27 ~~25~~	~~Wash~~ D0600543-002	~~.02~~ .03		<2 ~~NA~~	~~NA~~ 10x			✓	N	~~Not Reported~~ Presidio not needed
—	28	Wash							—	—	↓
1731	28 ~~29~~	VSTD00.3							✓	N	
1757	29 ~~30~~	VSTD00.5							✓	N	
1824	30 ~~31~~	VSTD001							✓	N	
1850	31 ~~32~~	VSTD005							✓	N	
1916	32 ~~33~~	VSTD010							✓	N	CCV might didn't pass recalibrate
1943	33 ~~34~~	VSTD020							✓	N	
2009	34 ~~35~~	VSTD040							✓	N	
2035	35 ~~36~~	VSTD100							✓	N	
2102	36 ~~37~~	QCALTSTD							✓	N	(B) 2
2128	37 ~~38~~	QCALTSTD	↓	↓	↓	↓	↓	↓	✓	N	(A) 3
2154	38	—	—	—	—	—	—	—	—	—	(E) 4
											TCS 5/31/6

Last Analysis within 12-Hour clock? ☒ Yes ☐ No CCV Used? ☒ #3 ☐ #4 MS/MSD present? ☐ Yes ☒ No LCS/LCSD TCAL

HPLC POLYNUCLEAR AROMATIC HYDROCARBONS

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: 05/24/2006
Date Received: 05/26/2006

Polynuclear Aromatic Hydrocarbons

Sample Name: 1213GW101CL
Lab Code: D0600543-001

Units: ug/L (ppb)
Basis: NA

Extraction SW3520
Analysis Method: SW8310

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	ND	U	5.0	1	05/31/2006	06/28/2006	NWB10531	
Fluorene	ND	U	1.0	1	05/31/2006	06/28/2006	NWB10531	
Phenanthrene	ND	U	1.0	1	05/31/2006	06/28/2006	NWB10531	
Anthracene	ND	U	0.20	1	05/31/2006	06/28/2006	NWB10531	
Fluoranthene	ND	U	0.20	1	05/31/2006	06/28/2006	NWB10531	
Pyrene	ND	U	0.20	1	05/31/2006	06/28/2006	NWB10531	
Benzo(a)anthracene	ND	U	0.20	1	05/31/2006	06/28/2006	NWB10531	
Chrysene	ND	U	0.20	1	05/31/2006	06/28/2006	NWB10531	
Benzo(b)fluoranthene	ND	U	0.20	1	05/31/2006	06/28/2006	NWB10531	
Benzo(k)fluoranthene	ND	U	0.20	1	05/31/2006	06/28/2006	NWB10531	
Benzo(a)pyrene	ND	U	0.20	1	05/31/2006	06/28/2006	NWB10531	
Dibenzo(a,h)anthracene	ND	U	0.50	1	05/31/2006	06/28/2006	NWB10531	
Benzo(g,h,i)perylene	ND	U	0.20	1	05/31/2006	06/28/2006	NWB10531	
Indeno(1,2,3-c,d)pyrene	ND	U	0.20	1	05/31/2006	06/28/2006	NWB10531	
Acenaphthylene	ND	U	2.0	1	05/31/2006	06/28/2006	NWB10531	
Acenaphthene	ND	U	5.0	1	05/31/2006	06/28/2006	NWB10531	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Terphenyl-d14 - SS	62	65-135	06/28/2006	*

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: 05/24/2006
Date Received: 05/26/2006

Polynuclear Aromatic Hydrocarbons

Sample Name: 1349MW100CL
Lab Code: D0600543-002

Units: ug/L (ppb)
Basis: NA

Extraction SW3520
Analysis Method: SW8310

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	ND	U	5.0	1	05/31/2006	06/28/2006	NWB10531	
Fluorene	**4.0**		1.0	1	05/31/2006	06/28/2006	NWB10531	
Phenanthrene	**3.5**		1.0	1	05/31/2006	06/28/2006	NWB10531	
Anthracene	**0.24**	P	0.20	1	05/31/2006	06/28/2006	NWB10531	
Fluoranthene	**0.38**	P	0.20	1	05/31/2006	06/28/2006	NWB10531	
Pyrene	**0.44**	P	0.20	1	05/31/2006	06/28/2006	NWB10531	
Benzo(a)anthracene	**0.48**	P	0.20	1	05/31/2006	06/28/2006	NWB10531	
Chrysene	ND	U	0.20	1	05/31/2006	06/28/2006	NWB10531	
Benzo(b)fluoranthene	ND	U	0.20	1	05/31/2006	06/28/2006	NWB10531	
Benzo(k)fluoranthene	ND	U	0.20	1	05/31/2006	06/28/2006	NWB10531	
Benzo(a)pyrene	ND	U	0.20	1	05/31/2006	06/28/2006	NWB10531	
Dibenzo(a,h)anthracene	ND	U	0.50	1	05/31/2006	06/28/2006	NWB10531	
Benzo(g,h,i)perylene	ND	U	0.20	1	05/31/2006	06/28/2006	NWB10531	
Indeno(1,2,3-c,d)pyrene	ND	U	0.20	1	05/31/2006	06/28/2006	NWB10531	
Acenaphthylene	ND	U	2.0	1	05/31/2006	06/28/2006	NWB10531	
Acenaphthene	**5.6**	P	5.0	1	05/31/2006	06/28/2006	NWB10531	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Terphenyl-d14 - SS	42	65-135	06/28/2006	*

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: NA
Date Received: NA

Polynuclear Aromatic Hydrocarbons

Sample Name: Method Blank
Lab Code: NWB10531

Units: ug/L (ppb)
Basis: NA

Extraction SW3520
Analysis Method: SW8310

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	ND	U	5.0	1	05/31/2006	06/28/2006	NWB10531	
Fluorene	ND	U	1.0	1	05/31/2006	06/28/2006	NWB10531	
Phenanthrene	ND	U	1.0	1	05/31/2006	06/28/2006	NWB10531	
Anthracene	ND	U	0.20	1	05/31/2006	06/28/2006	NWB10531	
Fluoranthene	ND	U	0.20	1	05/31/2006	06/28/2006	NWB10531	
Pyrene	ND	U	0.20	1	05/31/2006	06/28/2006	NWB10531	
Benzo(a)anthracene	ND	U	0.20	1	05/31/2006	06/28/2006	NWB10531	
Chrysene	ND	U	0.20	1	05/31/2006	06/28/2006	NWB10531	
Benzo(b)fluoranthene	ND	U	0.20	1	05/31/2006	06/28/2006	NWB10531	
Benzo(k)fluoranthene	ND	U	0.20	1	05/31/2006	06/28/2006	NWB10531	
Benzo(a)pyrene	ND	U	0.20	1	05/31/2006	06/28/2006	NWB10531	
Dibenzo(a,h)anthracene	ND	U	0.50	1	05/31/2006	06/28/2006	NWB10531	
Benzo(g,h,i)perylene	ND	U	0.20	1	05/31/2006	06/28/2006	NWB10531	
Indeno(1,2,3-c,d)pyrene	ND	U	0.20	1	05/31/2006	06/28/2006	NWB10531	
Acenaphthylene	ND	U	2.0	1	05/31/2006	06/28/2006	NWB10531	
Acenaphthene	ND	U	5.0	1	05/31/2006	06/28/2006	NWB10531	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543

Surrogate Recovery Summary
Polynuclear Aromatic Hydrocarbons

Prep Method: SW3520
Analysis Method: SW8310

Units: Percent

Sample Name	Lab Code	Q	S1
Laboratory Control Sample	NWB10531LCS		84
Laboratory Control Sample Duplicate	NWB10531LCSD		81
Method Blank	NWB10531		83
1213GW101CL	D0600543-001	*	62
1349MW100CL	D0600543-002	*	42

Surrogate Recovery Control Limits (%)

S1: Terphenyl-d14 - SS 65-135

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	Treadwell and Rollo, Inc.	**Service Request:**	D0600543
Project:	Presidio	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	05/31/2006
		Date Analyzed:	06/28/2006

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Polynuclear Aromatic Hydrocarbons

LCS Sample	Lab Control Sample	**DLCS Sample**	Lab Control Sample Duplicate
Lab Code:	NWB10531LCS	**Units:**	ug/L (ppb)
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Spike Level	Spike Result LCS	Spike Result LCSD	Spike % Rec LCS	Spike % Rec LCSD	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Naphthalene	SW3520	SW8310	5.0	20.00	15.20	14.95	76	75	50-135	2	
Fluorene	SW3520	SW8310	1.0	4.000	3.197	3.144	80	79	65-135	2	
Pyrene	SW3520	SW8310	0.20	2.000	1.642	1.644	82	82	65-135	0	
Benzo(a)pyrene	SW3520	SW8310	0.20	2.000	1.652	1.585	83	79	65-135	4	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client:	Treadwell and Rollo, Inc.	**Service Request:**	D0600543
Project:	Presidio	**Date Extracted:**	05/31/2006
Sample Matrix:	Water	**Date Analyzed:**	06/28/2006
		Time Analyzed:	18:36

Method Blank Summary

Polynuclear Aromatic Hydrocarbons

Extaction Method: SW3520 **Extraction Lot:** NWB10531

Analysis Method: SW8310

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Laboratory Control Sample	NWB10531LCS	I0628016	06/28/2006	17:35
Laboratory Control Sample Duplicate	NWB10531LCSD	I0628017	06/28/2006	18:06
1213GW101CL	D0600543-001	I0628019	06/28/2006	19:07
1349MW100CL	D0600543-002	I0628020	06/28/2006	19:38

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
ICAL Date: 06/28/2006

Initial Calibration Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 06/28/2006LCI
Instrument ID: LCI

Level ID	File ID
A	I0628010
B	I0628011
C	I0628012
D	I0628013
E	I0628014

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Naphthalene	A	1.000	67.05	B	10.00	84.92	C	20.00	89.87	D	30.00	86.32	E	40.00	84.48
Fluorene	A	0.200	160.0	B	2.000	222.8	C	4.000	237.7	D	6.000	229.8	E	8.000	230.2
Phenanthrene	A	0.100	869.4	B	1.000	1040	C	2.000	1091	D	3.000	1041	E	4.000	1021
Anthracene	A	0.100	859.0	B	1.000	1018	C	2.000	1059	D	3.000	1003	E	4.000	966.5
Fluoranthene	A	0.100	187.7	B	1.000	267.1	C	2.000	291.5	D	3.000	288.0	E	4.000	282.9
Pyrene	A	0.100	740.0	B	1.000	918.0	C	2.000	971.6	D	3.000	946.3	E	4.000	935.4
Benzo(a)anthracene	A	0.100	251.6	B	1.000	370.4	C	2.000	402.1	D	3.000	387.9	E	4.000	382.5
Chrysene	A	0.100	802.8	B	1.000	972.6	C	2.000	1024	D	3.000	978.5	E	4.000	959.5
Benzo(b)fluoranthene	A	0.100	283.2	B	1.000	390.3	C	2.000	421.6	D	3.000	409.6	E	4.000	404.5
Benzo(k)fluoranthene	A	0.100	2237	B	1.000	2417	C	2.000	2547	D	3.000	2450	E	4.000	2391
Benzo(a)pyrene	A	0.100	2490	B	1.000	2710	C	2.000	2859	D	3.000	2754	E	4.000	2631
Dibenzo(a,h)anthracene	A	0.200	1438	B	2.000	1508	C	4.000	1573	D	6.000	1498	E	8.000	1409
Benzo(g,h,i)perylene	A	0.200	1001	B	2.000	1039	C	4.000	1113	D	6.000	1093	E	8.000	1102
Indeno(1,2,3-c,d)pyrene	A	0.100	1429	B	1.000	1548	C	2.000	1655	D	3.000	1650	E	4.000	1662
Acenaphthene	A	1.000	212.0	B	10.00	236.3	C	20.00	245.3	D	30.00	230.7	E	40.00	221.3
Terphenyl-d14 - SS	A	0.250	307.3	B	2.500	352.9	C	5.000	375.5	D	7.500	357.3	E	10.00	352.0

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
ICAL Date: 06/28/2006

Initial Calibration Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 06/28/2006LCI
Instrument ID: LCI
Mean RSD: 9.16

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
Naphthalene	TRG	Linear	r	0.999		0.995
Fluorene	TRG	Linear	r	1.000		0.995
Phenanthrene	TRG	Linear	r	0.999		0.995
Anthracene	TRG	Linear	r	0.999		0.995
Fluoranthene	TRG	Linear	r	1.000		0.995
Pyrene	TRG	Linear	r	1.000		0.995
Benzo(a)anthracene	TRG	Linear	r	0.999		0.995
Chrysene	TRG	Linear	r	0.999		0.995
Benzo(b)fluoranthene	TRG	Linear	r	1.000		0.995
Benzo(k)fluoranthene	TRG	Linear	r	0.999		0.995
Benzo(a)pyrene	TRG	Linear	r	0.999		0.995
Dibenzo(a,h)anthracene	TRG	Linear	r	0.998		0.995
Benzo(g,h,i)perylene	TRG	Linear	r	1.000		0.995
Indeno(1,2,3-c,d)pyrene	TRG	Linear	r	1.000		0.995
Acenaphthene	TRG	Linear	r	0.998		0.995
Terphenyl-d14 - SS	TRG	Linear	r	0.999		0.995

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
Date Analyzed: 06/28/2006

Second Source Calibration Verification
Polynuclear Aromatic Hydrocarbons

ICAL ID: 06/28/2006LCI
Instrument ID: LCI
File ID: I0628015

Column: FL

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Naphthalene	20.00	20.76	82.53	89.23	NA	3.8	+/- 15.0	Linear	
Fluorene	4.000	4.171	216.1	240.0	NA	4.3	+/- 15.0	Linear	
Phenanthrene	2.000	2.042	1012	1063	NA	2.1	+/- 15.0	Linear	
Anthracene	2.000	2.156	981.2	1076	NA	7.8	+/- 15.0	Linear	
Fluoranthene	2.000	2.207	263.5	313.4	NA	10.4	+/- 15.0	Linear	
Pyrene	2.000	2.102	902.3	990.6	NA	5.1	+/- 15.0	Linear	
Benzo(a)anthracene	2.000	2.121	358.9	409.0	NA	6.0	+/- 15.0	Linear	
Chrysene	2.000	2.186	947.5	1068	NA	9.3	+/- 15.0	Linear	
Benzo(b)fluoranthene	2.000	2.164	381.8	440.4	NA	8.2	+/- 15.0	Linear	
Benzo(k)fluoranthene	2.000	2.135	2409	2604	NA	6.8	+/- 15.0	Linear	
Benzo(a)pyrene	2.000	2.166	2689	2942	NA	8.3	+/- 15.0	Linear	
Dibenzo(a,h)anthracene	4.000	4.083	1485	1508	NA	2.1	+/- 15.0	Linear	
Benzo(g,h,i)perylene	4.000	4.191	1069	1147	NA	4.8	+/- 15.0	Linear	
Indeno(1,2,3-c,d)pyrene	2.000	2.173	1589	1788	NA	8.6	+/- 15.0	Linear	
Acenaphthene	20.00	21.79	229.1	250.4	NA	9.0	+/- 15.0	Linear	
Terphenyl-d14 - SS	N/A	N/A	349.0	3.132	NA	0.0	+/- 15.0	Linear	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
Date Analyzed: 06/28/2006

Continuing Calibration Verification Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 06/28/2006LCI
Instrument ID: LCI
File ID: I0628013

Column: FL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Naphthalene	30.00	30.18	82.53	86.32	NA	0.6	+/- 15.0	Linear	
Fluorene	6.000	5.973	216.1	229.8	NA	-0.4	+/- 15.0	Linear	
Phenanthrene	3.000	3.011	1012	1041	NA	0.4	+/- 15.0	Linear	
Anthracene	3.000	3.033	981.2	1003	NA	1.1	+/- 15.0	Linear	
Fluoranthene	3.000	3.030	263.5	288.0	NA	1.0	+/- 15.0	Linear	
Pyrene	3.000	3.010	902.3	946.3	NA	0.3	+/- 15.0	Linear	
Benzo(a)anthracene	3.000	3.011	358.9	387.9	NA	0.4	+/- 15.0	Linear	
Chrysene	3.000	3.012	947.5	978.5	NA	0.4	+/- 15.0	Linear	
Benzo(b)fluoranthene	3.000	3.012	381.8	409.6	NA	0.4	+/- 15.0	Linear	
Benzo(k)fluoranthene	3.000	3.024	2409	2450	NA	0.8	+/- 15.0	Linear	
Benzo(a)pyrene	3.000	3.057	2689	2754	NA	1.9	+/- 15.0	Linear	
Dibenzo(a,h)anthracene	6.000	6.147	1485	1498	NA	2.4	+/- 15.0	Linear	
Benzo(g,h,i)perylene	6.000	5.968	1069	1093	NA	-0.5	+/- 15.0	Linear	
Indeno(1,2,3-c,d)pyrene	3.000	2.993	1589	1650	NA	-0.2	+/- 15.0	Linear	
Acenaphthene	30.00	30.36	229.1	230.7	NA	1.2	+/- 15.0	Linear	
Terphenyl-d14 - SS	7.500	7.509	349.0	357.3	NA	0.1	+/- 15.0	Linear	

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
Date Analyzed: 06/28/2006

Continuing Calibration Verification Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 06/28/2006LCI
Instrument ID: LCI
File ID: I0628022

Column: FL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Naphthalene	20.00	20.84	82.53	89.56	NA	4.2	+/- 15.0	Linear	
Fluorene	4.000	4.054	216.1	233.3	NA	1.4	+/- 15.0	Linear	
Phenanthrene	2.000	2.078	1012	1081	NA	3.9	+/- 15.0	Linear	
Anthracene	2.000	2.101	981.2	1049	NA	5.0	+/- 15.0	Linear	
Fluoranthene	2.000	1.772	263.5	309.7	NA	-11.4	+/- 15.0	Linear	
Pyrene	2.000	2.096	902.3	1121	NA	4.8	+/- 15.0	Linear	
Benzo(a)anthracene	2.000	2.096	358.9	404.1	NA	4.8	+/- 15.0	Linear	
Chrysene	2.000	2.103	947.5	1028	NA	5.2	+/- 15.0	Linear	
Benzo(b)fluoranthene	2.000	2.082	381.8	423.7	NA	4.1	+/- 15.0	Linear	
Benzo(k)fluoranthene	2.000	2.099	2409	2561	NA	5.0	+/- 15.0	Linear	
Benzo(a)pyrene	2.000	2.119	2689	2879	NA	6.0	+/- 15.0	Linear	
Dibenzo(a,h)anthracene	4.000	4.297	1485	1585	NA	7.4	+/- 15.0	Linear	
Benzo(g,h,i)perylene	4.000	4.230	1069	1158	NA	5.8	+/- 15.0	Linear	
Indeno(1,2,3-c,d)pyrene	2.000	2.113	1589	1738	NA	5.6	+/- 15.0	Linear	
Acenaphthene	20.00	21.13	229.1	242.9	NA	5.6	+/- 15.0	Linear	
Terphenyl-d14 - SS	5.000	5.281	349.0	377.9	NA	5.6	+/- 15.0	Linear	

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543

Analysis Run Log
Polynuclear Aromatic Hydrocarbons

Analysis Method: SW8310

Instrument ID: LCI
Column: FL

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
I0628010	KSTD1	KSTD1	06/28/2006	13:11		06/28/2006	13:41
I0628011	KSTD2	KSTD2	06/28/2006	13:41		06/28/2006	14:11
I0628012	KSTD3	KSTD3	06/28/2006	14:12		06/28/2006	14:42
I0628013	KSTD4	KSTD4	06/28/2006	14:42		06/28/2006	15:12
I0628014	KSTD5	KSTD5	06/28/2006	15:13		06/28/2006	15:43
I0628015	QCALTSTD	QCALTSTD	06/28/2006	15:44		06/28/2006	16:14
I0628016	Laboratory Control Sample	NWB10531LCS	06/28/2006	17:35		06/28/2006	18:05
I0628017	Laboratory Control Sample Duplicate	NWB10531LCSD	06/28/2006	18:06		06/28/2006	18:36
I0628018	Method Blank	NWB10531	06/28/2006	18:36		06/28/2006	19:06
I0628019	1213GW101CL	D0600543-001	06/28/2006	19:07		06/28/2006	19:37
I0628020	1349MW100CL	D0600543-002	06/28/2006	19:38		06/28/2006	20:08
I0628022	KSTD3	KSTD3	06/28/2006	20:39		06/28/2006	21:09

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Extracted: 05/31/2006

Extraction Prep Log
Polynuclear Aromatic Hydrocarbons

Extaction Method: SW3520
Analysis Method: SW8310

Extraction Lot: NWB10531

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
Method Blank	NWB10531	NA	NA	1.000 L	1	NA	
Laboratory Control Sample	NWB10531LCS	NA	NA	1.000 L	1	NA	
Laboratory Control Sample Duplicate	NWB10531LCSD	NA	NA	1.000 L	1	NA	
1213GW101CL	D0600543-001	05/24/2006	05/26/2006	1.050 L	1	NA	
1349MW100CL	D0600543-002	05/24/2006	05/26/2006	1.040 L	1	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client: Treadwell and Rollo, Inc. **Service Request:** D0600543

Project: Presidio

Holding Time Summary
Polynuclear Aromatic Hydrocarbons

Analysis Method: SW8310

Field Sample ID	Date Collected	Date Received	1st Date Prepared	Max. Holding Time 1	1st Time Held	2nd Date Prepared	Max. Holding Time 2	2nd Time Held	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
1213GW101CL	05/24/2006	05/26/2006	05/31/2006	7	7	N/A	N/A	N/A	06/28/2006	40	28	
1349MW100CL	05/24/2006	05/26/2006	05/31/2006	7	7	N/A	N/A	N/A	06/28/2006	40	28	

Comments:

ORGANIC ANALYSES DATA APPENDIX D
SECONDARY CONFIRMATION RESULTS

Analytical Method: SW8310 AAB #: D0600543

Lab Name: Columbia Analytical Services/Redding

Matrix: Water

Concentration Units (ug/L or ug/Kg dry weight): UG/L

Field Sample ID	Lab Sample ID	Analyte	Primary	Confirmation	RPD
1349MW100CL	D0600543-002	Fluorene	4.0	5.6	33
1349MW100CL	D0600543-002	Phenanthrene	3.5	4.5	25
1349MW100CL	D0600543-002	Anthracene	0.24	0.86	113
1349MW100CL	D0600543-002	Fluoranthene	0.38	2.5	147
1349MW100CL	D0600543-002	Pyrene	0.44	11	185
1349MW100CL	D0600543-002	Benzo(a)anthracene	0.48	0.18	91
1349MW100CL	D0600543-002	Acenaphthene	5.6	9.3	50

Comments:

MDL STUDY REPORT FORM

Lab Name: Columbia Analytical Services/Redding Analytical Method: SW8310 Matrix: Water

Instrument ID: LCI

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
Anthracene	08/03/2005	0.01	0.0030	0.0034	0.0037	0.0056	0.0034	0.0035	0.0048	0.0027	0.0010	0.0029
Pyrene	08/03/2005	0.01	0.0044	0.0038	0.0058	0.0070	0.0050	0.0095	0.0075	0.0034	0.0021	0.0062
Benzo(g,h,i)perylene	08/03/2005	0.02	0.0076	0.0049	0.0096	0.0103	0.0098	0.0115	0.0121	0.0075	0.0024	0.0071
Indeno(1,2,3-cd)pyrene	08/03/2005	0.01	0.0039	0.0028	0.0054	0.0049	0.0049	0.0062	0.0069	0.0036	0.0013	0.0040
Benzo(b)fluoranthene	08/03/2005	0.01	0.0070	0.0049	0.0068	0.0087	0.0056	0.0090	0.0077	0.0048	0.0016	0.0049
Fluoranthene	08/03/2005	0.01	0.0047	0.0039	0.0058	0.0054	0.0054	0.0076	0.0068	0.0037	0.0013	0.0040
Benzo(k)fluoranthene	08/03/2005	0.01	0.0058	0.0037	0.0061	0.0061	0.0058	0.0055	0.0071	0.0049	0.0010	0.0030
Acenaphthylene	08/03/2005	0.20	0.1214	0.1827	0.1758	0.1889	0.1609	0.1606	0.2152	0.1444	0.029	0.086
Chrysene	08/03/2005	0.01	0.0043	0.0032	0.0049	0.0044	0.0043	0.0075	0.0055	0.0038	0.0013	0.0040
Benzo(a)pyrene	08/03/2005	0.01	0.0038	0.0039	0.0048	0.0093	0.0042	0.0038	0.0056	0.0037	0.0019	0.0057
Dibenzo(a,h)anthracene	08/03/2005	0.02	0.0125	0.0078	0.0147	0.0153	0.0153	0.0127	0.0162	0.0118	0.0027	0.0082
Benzo(a)anthracene	08/03/2005	0.01	0.0022	0.0014	0.0027	0.0032	0.0018	0.0061	0.0038	0.0013	0.0016	0.0048
Acenaphthene	08/03/2005	0.10	0.0442	0.0488	0.0485	0.0487	0.0464	0.0465	0.0578	0.0363	0.0060	0.018
Phenanthrene	08/03/2005	0.01	0.0054	0.0054	0.0060	0.0069	0.0055	0.0064	0.0076	0.0045	0.0010	0.0029
Fluorene	08/03/2005	0.02	0.0068	0.0082	0.0077	0.0089	0.0081	0.0073	0.0096	0.0047	0.0015	0.0045
Naphthalene	08/03/2005	0.10	0.0377	0.0412	0.0430	0.0413	0.0435	0.0393	0.0553	0.0333	0.0063	0.019

Liquid-Liquid Extraction, 3520C **Polynuclear Aromatic Hydrocarbon Water**

Date	5/31/06
Time	13:00

3151

Batches: D0600543

Client(s): Treadwell & Rollo

Analytical Method: 8330

Solvent Lots

DCM	~~[illegible] 5/8/06 5/31/06~~
Cylcohexane	
Pentane	
Acetonitrile	45024 12/15 2/15/6

Spikes

Surrogate: IS-EXS-96B

Amt. 1.0 ml Exp: 6/13/06

Spike: LL-EXS-6A

Amt. 1.0 ml Exp: 8/26/06

Spiked by: [illegible] Witness: [illegible]

Cleanup

☐ Silica Gel, 3630C

By/date ____ Lot ____

☒ No cleanup

Comments:

Test Code(s)	Spikes		Amt	Final KD	Reflux
8310	Surrogate	Spike	(1L)	H2O bath temp [illegible] Date & Volume	Date
Sample ID	X	X	By: cmc 5/31/06	By: [illegible] 6/1/06	By: [illegible] 6/1/6
NWB1	X		1.0	1.0 ml	
~~NWB2~~					
NWL1	X	X	1.0		
NWL2	X	X	1.0		
D0600543-1.38	X		1.05		
↓ -2.22	X		1.04		

cmc 5/31/06

cmc 5/31/06

☐ Completed ms/msd

☒ Sample limited, no ms/msd, duplicate LCS

067

Peer Review By:

Organic Extractions Dept.
CAS-Redding

Columbia Analytical Services, Inc.

HP1050 Injection Log

Instrument ID:
LCI

Standard(s)	
A	1-HP-516
B	51F
C	

Analytical Method	
✓	8310
	8315A
	8330
	Other _____

Target Method(s)	
A	8310-0628FL/UV.m
B	
C	
D	

Date
6/28/06

ICAL Date(s)	6/28/06

Analyst	mgc

Page: 11

Target Method	Data Directory	Filename	Sample ID	F	Matrix	DL Factor	STD	Use?	Comments
A	I060628	I0628001	Primer	MA	STD	1x		N	Condition Instrument
		002	WASH						
		003	KSTD3						Check FL wavelengths, Adjust
		004	KSTD1						
		005	2						
		006	3						Abort run. Re-adjust. FL wavelengths
		007	4						
		008	5						
		009	KSTD3 ICVS						
		010	KSTD1					Y	1-HP-51C
		011	2						51D
		012	3						51E
		013	4						51F
		014	5						51A
		015	KSTD3 ICVS						51G
		016	NWL10531LCS		WA				
		017	LCSD						
		018	NWB10531	.38					
		019	D0600543-001	.38					
		020	-002	0.22					
		021	WASH	MA	—				
		022	KSTD3		STD		A		

APPENDIX

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 (360) 636-1068 fax

Columbia Analytical Services INC.
An Employee - Owned Company

June 6, 2006 Service Request No: D0600543

Karen Sellers
Columbia Analytical Services
5090 Caterpillar Rd.
Redding, CA 96003

RE: Presidio

Dear Karen:

Enclosed are the results of the sample(s) submitted to our laboratory on May 26, 2006. For your reference, these analyses have been assigned our service request number D0600543.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3376.

Respectfully submitted,

Columbia Analytical Services, Inc.

for

Gregory Salata, Ph.D.
Project Chemist

GS/lmb

NELAP Accredited ACIL Seal of Excellence Award 100% Recycled

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

Case Narrative

00004

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Treadwell and Rollo, Inc.	**Service Request No.:**	D0600543
Project:	Presidio	**Date Received:**	5/26/06
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One water sample was received for analysis at Columbia Analytical Services on 5/26/06 in good condition and consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

General Chemistry Parameters

Sulfide, Total by EPA 376.2:
The matrix spike recovery of total sulfide for sample 1065MW9ACL was outside control criteria because of matrix interference. As a result, accurate quantitation was not possible. Recovery in the Laboratory Control Sample (LCS) was acceptable. No further corrective action was possible.

Approved by _____ **Date** 6/6/06

Chain of Custody Documentation

S26-0138

D060053143

Columbia Analytical Services INC.
An Employee - Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

5090 Caterpillar Road • Redding, CA 96003 • (530) 244-5227 • 800-695-7222 x10 • FAX (530) 244-4109

PAGE 1 OF 1

COC# 16224

SR # ~~K060421810~~

CAS Contact

261

Project Name: PRESIDIO GW	Project Number:
Project Manager: DOUG BURNETT	Report CC:
Company/Address: CAS/REDDING	
Phone #	FAX#
Sampler's Signature	Sampler's Printed Name

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

TOTAL NUMBER OF CONTAINERS

METALS* CIRCLE ON LIST BELOW

TOTAL SULFIDE

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	TOTAL NUMBER OF CONTAINERS	METALS* CIRCLE ON LIST BELOW	TOTAL SULFIDE	REMARKS/ ALTERNATE DESCRIPTION
1065MW9ACL		5/25/06	0920	W	1		X	

* Circle the method and each appropriate metal.

Total Metals/6010 Al As Sb Ba Be B Ca Cd Cr Cu Co Fe Pb L Mg Mn Mo Ni K Ag Na Se Sr Ti Tl Sn V Zn
Total Metals/7000 series: As Sb Cr Cu Pb Se Tl Hg
Total Metals/6020 series: Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl V Zn

Dissolved Metals/6010: Al As Sb Ba Be B Ca Cd Cr Cu Co Fe Pb Li Mg Mn Mo Ni K Ag Na Se Sr Ti Tl Sn V Zn
Dissolved Metals/7000 series: As Sb Cr Cu Pb Se Tl Hg
Dissolved Metals/6020 series: Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl V Zn

SPECIAL INSTRUCTIONS/COMMENTS
SUBBED TO: CAS/KELSO, WA

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO# _____
BILL TO: _____

TURNAROUND REQUIREMENTS
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results
Other _____

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature Amanda Jewell	Signature	Signature	Signature	Signature
Printed Name D. BINNS	Printed Name JWell	Printed Name	Printed Name	Printed Name	Printed Name
Firm CAS VIA FEDEX	Firm CAS	Firm	Firm	Firm	Firm
Date/Time 5/25/06 1845	Date/Time 5/26/06 1200	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0106-11

Columbia Analytical Services Inc.
Cooler Receipt and Preservation Form

PC [illegible]

Project/Client CAS Service Request K0606 00543

Cooler received on 5/26/06 and opened on 5/26/06 by [illegible]

1. Were custody seals on outside of coolers? — FX Y (N)
   If yes, how many and where? _____
2. Were custody seals intact? ~~Y N~~
3. Were signature and date present on the custody seals? ~~Y N~~
4. Is the shipper's airbill available and filed? If no, record airbill number: _____ (Y) N
5. COC#
   Temperature of cooler(s) upon receipt: (°C) 5.1
   Temperature Blank: (°C) N/P
   Were samples hand delivered on the same day as collection? ~~Y~~ N
6. Were custody papers properly filled out (ink, signed, etc.)? (Y) N
7. Type of packing material present ICE, PLASTIC
8. **Did all bottles arrive in good condition (unbroken)?** (Y) N
9. Were all bottle labels complete (i.e analysis, preservation, etc.)? (Y) N
10. Did all bottle labels and tags agree with custody papers? (Y) N
11. **Were the correct types of bottles used for the tests indicated?** (Y) N
12. Were all of the preserved bottles received at the lab with the appropriate pH? ~~Y N~~
13. Were VOA vials checked for absence of air bubbles, and if present, noted below? ~~Y N~~
14. Were the 1631 Mercury bottles checked for absence of air bubbles, and if present, noted below? ~~Y N~~
15. Did the bottles originate from CAS/K or a branch laboratory? Y (N)
16. **Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?** ~~Y N~~
17. Was C12/Res negative? Y ~~N~~

Explain any discrepancies: _____

RESOLUTION: _____

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

00008

General Chemistry Parameters

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Treadwell and Rollo, Inc.
Project Name : Presidio
Project Number : NA
Sample Matrix : WATER

Service Request : D0600543
Date Collected : 05/24/06
Date Received : 05/26/06

Sulfide, Total

Analysis Method : 376.2
Test Notes :

Units : mg/L (ppm)
Basis : NA

Sample Name	Lab Code	MRL	Dilution Factor	Date Analyzed	Result	Result Notes
1065MW9ACL	D0600543-003	0.05	1	05/31/06	0.17	
Method Blank	D0600543-MB	0.05	1	05/31/06	ND	

00010

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Treadwell and Rollo, Inc.
Project Name : Presidio
Project Number : NA
Sample Matrix : WATER

Service Request : D0600543
Date Collected : 05/24/06
Date Received : 05/26/06
Date Prepared : NA
Date Analyzed : 05/31/06

Duplicate Summary
Inorganic Parameters

Sample Name : 1065MW9ACL
Lab Code : D0600543-003DUP
Test Notes :

Units : mg/L (ppm)
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Sulfide, Total	376.2	0.05	0.17	0.16	0.17	6	

00011

Report By:Agreer

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Treadwell and Rollo, Inc.
Project Name : Presidio
Project Number : NA
Sample Matrix : WATER

Service Request : D0600543
Date Collected : 05/24/06
Date Received : 05/26/06
Date Prepared : NA
Date Analyzed : 05/31/06

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : 1065MW9ACL
Lab Code : D0600543-003MS D0600543-003DMS
Test Notes :

Units : mg/L (ppm)
Basis : NA

Analyte	Prep Method	Analysis Method	MRL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Spike Recovery MS	Spike Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Sulfide, Total	None	376.2	0.05	1.48	1.48	0.17	0.55	0.54	26	25	75-125	1	*

Report By:Agreer

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	Treadwell and Rollo, Inc.	**Service Request :**	D0600543
Project Name :	Presidio	**Date Collected :**	NA
Project Number :	NA	**Date Received :**	NA
Sample Matrix :	WATER	**Date Prepared :**	NA
		Date Analyzed :	05/31/06

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name :	Laboratory Control Sample	Units :	mg/L (ppm)
Lab Code :	D0600543-LCS	Basis :	NA
Test Notes :			

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Sulfide, Total	None	376.2	1.48	1.39	94	85-115	

Report By:Agreer

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Treadwell and Rollo, Inc.
Project : Presidio

Service Request : D0600543
Date Collected : NA
Date Received : NA

Sulfide, Total
EPA Method 376.2
Units: mg/L (ppm)

CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	05/31/06	1.48	1.48	100
CCV7 Result	05/31/06	1.48	1.48	100
CCV8 Result	05/31/06	1.48	1.48	100

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	05/31/06	0.05	ND
CCB7 Result	05/31/06	0.05	ND
CCB8 Result	05/31/06	0.05	ND

Work Request # Original [redacted]

Tier: III

Date Analyzed: 5/31/04

Analyst: J. Hopkins

Analysis: 376.2

DATA QUALITY REPORT
INORGANICS

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1.	Is the method name and number correct and appropriate?		yes/no/NA
2.	Holding times met for all analyses and for all samples?		yes/no/NA
3.	Are calculations correct?		yes/no/NA
4.	Is the reporting basis correct? (Dry Weight)		yes/no/NA
5.	All quality control criteria met?		yes/no/NA
	a.	Is the calibration curve correlation coefficient ≥ 0.995?	yes/no/NA
	b.	MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?	yes/no/NA
	c.	Are ICVs, CCVs, and CCBs all within acceptance limits?	yes/no/NA
	d.	Are results for methods blanks all ND?	yes/no/NA
	e.	Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)	yes/no/NA
	f.	Are all exceptions explained?	yes/no/NA
6.	Are all service requests that apply attached?		yes/no/NA
7.	Are all samples labelled correctly?		yes/no/NA
8.	Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample)		yes/no/NA
9.	Are detection limits and units reported correctly?		yes/no/NA
10.	Are proper Analysis/Extraction stickers included on report?		yes/no/NA
11.	Is the unused space on the benchsheet crossed out?		yes/no/NA
12.	Was analysis turned in by the due date? (n-2) (If not record SR#)		yes/no/NA

COMMENTS:

5e. [redacted] 3MS/MSD failed at 26% + 25%.
Matrix interference suspected

Final Approved by: [signature] Date: 6/1/06

DQREPORT

00015

269

COLUMBIA ANALYTICAL SERVICES, INC.

#55527

Work Order #.: D0543 Method: 376.2

Analysis: Analysis for Total Sulfide

	STD1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7					
Conc. (mg/L)	0.000	0.037	0.369	0.738	1.106	1.475	1.844				(R) =	0.9996
Absorbance	0.000	0.020	0.238	0.474	0.699	0.910	1.122				Slope =	0.6122
											Y Int. =	0.0077

Date Prep'd	Sample #	Dil. Factor	Absorb. @ 670 nm	Conc. from Curve (mg/L)	Actual Conc. (mg/L)	Initial Wt./Vol. (g) / (ml)	Final Vol. (ml)	A Tower mg/L (solution)	B Tower mg/L (solution)	A & B mg/L - mg/kg as rec'd	% Solid	mg/kg Dry Wt.
5/31/2006	ICV	1	1.023	1.6585	1.6585	40	40	1.66		1.66		
5/31/2006	ICB	1	0.000	-0.0126	<0.05	40	40	<0.05		<0.05		
5/31/2006	CCV	1	0.916	1.4838	1.4838	40	40	1.48		1.48		
5/31/2006	CCB	1	0.000	-0.0126	<0.05	40	40	<0.05		<0.05		
5/31/2006	CCV7	1	0.911	1.4756	1.4756	40	40	1.48		1.48		
5/31/2006	CCB7	1	-0.001	-0.0142	<0.05	40	40	<0.05		<0.05		
5/31/2006	MB	1	-0.005	-0.0207	<0.05	20	20	<0.05		<0.05		
5/31/2006	LCS	1	0.861	1.3939	1.3939	20	20	1.39		1.39		
5/31/2006	D0543-3	1	0.113	0.1720	0.1720	20	20	0.17		0.17		
5/31/2006	0543-3D	1	0.106	0.1606	0.1606	20	20	0.16		0.16		
5/31/2006	0543-3MS	1	0.344	0.5494	0.5494	20	20	0.55		0.55		
5/31/2006	0543-3MSD	1	0.340	0.5428	0.5428	20	20	0.54		0.54		
5/31/2006	CCV8	1	0.914	1.4805	1.4805	40	40	1.48		1.48		
5/31/2006	CCB8	1	0.002	-0.0093	<0.05	40	40	<0.05		<0.05		

CCV =2ml*29.5mg/l/40ml=1.48mg/l %REC = 100, 100, 100 ✓

LCS =1ml*29.5mg/l/20ml = 1.48mg/l %REC = 94

ICV = 2.25ml*29.5mg/L/40ml = 1.66mg/L %REC = 100 ✓

MS/MSD = 1ml*29.5mg/L/20ml = 1.48mg/L %REC = 26, 25 ✓ Matrix interference suspected.

D0543-3/3d x = 0.17 RPD = 6% ✓

STD ID# s2/2-1-B CONC. = 2950

Distilled by:	N/A	Date Distilled:	N/A
Analyzed By:	SAN	Date Analyzed:	5/31/06 1300
Reviewed By:		Date Reviewed:	6/1/06

COLUMBIA ANALYTICAL SERVICES, INC.

Work Order #.:

Analysis: Analysis for Total Sulfide

Method: 376.2

Prep Date : 5/31/2006

	STD1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7					
Conc. (mg/L)	0.000	0.037	0.369	0.738	1.106	1.475	1.844					
Absorbance	0.000	0.020	0.238	0.474	0.699	0.910	1.122					

Sample Name Lab Code	Initial Wt./Vol. (g) or (ml)	Dilution Factor	Abs of A tower @ 670 nm	Abs of B tower @ 670 nm	% Solids
ICV	40	1	1.023		
ICB	40	1	0.000		
CCV	40	1	0.916		
CCB	40	1	0.000		
CCV7	40	1	0.911		
CCB7	40	1	-0.001		
MB	20	1	-0.005		
LCS	20	1	0.861		
D0543-3	20	1	0.113		
0543-3D	20	1	0.106		
0543-3MS	20	1	0.344		
0543-3MSD	20	1	0.340		
CCV8	40	1	0.914		
CCB8	40	1	0.002		
		1			
		1			
		1			

Sample Name Lab Code	Initial Wt./Vol. (g) or (ml)	Dilution Factor	Abs of A tower @ 670 nm	Abs of B tower @ 670 nm	% Solids
		1			
		1			
		1			

9030 5/31/06

DU520 S/N: 0112U2001732 1.03
31-MAY-06 12:37:40 SCA
Wavelength: 670.0 nm
Formula: A=a+bC a: 0.0078 b: 0.6122

L0600798
376.2
D0600543

r2=0.999 Var=0.0002

mg/L	Net A
0.0000	-0.000
0.0370	0.020
0.3690	0.238
0.7380	0.474
1.1060	0.699
1.4750	0.910
1.8440	1.122

SAT 5/31/06

6/1/06

00018

DU520 S/N: 0112U2001732 1.03
31-MAY-06 12:38:22 SCA Group 0648
Wavelength: 670.0 nm
Formula: A=a+bC a: 0.0078 b: 0.6122

Sample		Net A	Dil X	mg/L
0001	ICB	-0.000	1.0000	-0.01
0002	ICV	1.023	1.0000	1.66
0003	CCV	0.916	1.0000	1.48
0004	CCB	0.000	1.0000	-0.01
0005	MB	0.001	1.0000	-0.01
0006	LCS	0.988	1.0000	1.60
0007	L0798-2	0.001	1.0000	-0.01
0008	-3	0.002	1.0000	-0.01
0009	-4	0.001	1.0000	-0.01
0010	-5	-0.003	1.0000	-0.02
0011	-6	-0.000	1.0000	-0.01
0012	-7	0.001	1.0000	-0.01
0013	-8	0.006	1.0000	-0.00
0014	-9	0.004	1.0000	-0.01
0015	CCV2	0.910	1.0000	1.47
0016	CCB2	0.001	1.0000	-0.01
0017	L0798-10	0.001	1.0000	-0.01
0018	-10d	-0.001	1.0000	-0.01
0019	-10ms	0.510 0.2/20	1.0000	0.82
0020	-10msd	0.474 0.2/20	1.0000	0.76
0021	-11	-0.003	1.0000	-0.02
0022	-11d	0.004	1.0000	-0.02
0023	-11ms	0.521 0.2/20	1.0000	0.84
0024	-11msd	0.527 0.2/20	1.0000	0.85
0025	-12	0.002	1.0000	-0.01
0026	-13	0.002	1.0000	-0.02
0027	CCV3	0.915	1.0000	1.48
0028	CCB3	-0.005	1.0000	-0.02
0029	L0798-14	-0.003	1.0000	-0.02
0030	-15	0.002	1.0000	-0.01
0031	-16	-0.000	1.0000	-0.01
0032	-19	0.013	1.0000	0.01
0033	-20	0.005	1.0000	-0.01
0034	-21	0.000	1.0000	-0.01
0035	-22	0.003	1.0000	-0.02
0036	CCV4	0.913	1.0000	1.48
0037	CCB4	0.000	1.0000	-0.01
0038	MB	0.006	1.0000	-0.00
0039	LCS	0.003	1.0000	-0.01
0040	L0798-2	0.006	1.0000	-0.00
0041	-3	0.012	1.0000	0.01
0042	-4	0.003	1.0000	-0.01
0043	-5	0.009	1.0000	0.00
0044	-6	0.004	1.0000	-0.01
0045	-7	0.007	1.0000	-0.00
0046	-8	0.003	1.0000	-0.01
0047	-9	0.006	1.0000	-0.00
0048	CCV5	0.916	1.0000	1.48
0049	CCB5	0.001	1.0000	-0.01
0050	L0798-10	0.009	1.0000	0.00
0051	-10d	0.006	1.0000	-0.00

9030 A Towers

9030 B Towers

6/1/06

5/31/06

0052	L0798-10ms	0.005	1.0000	-0.01
0053	-10msd	0.011	1.0000	0.00
0054	-11	-0.001	1.0000	-0.02
0055	-11d	0.011	1.0000	0.01
0056	-11ms	0.008	1.0000	0.00
0057	-11msd	0.006	1.0000	-0.00
0058	-12	0.009	1.0000	0.00
0059	-13	0.009	1.0000	0.00
0060	CCV6	0.914	1.0000	1.48
0061	CCB6	0.001	1.0000	-0.01
0062	L0798-14	0.005	1.0000	-0.00
0063	-15	0.002	1.0000	-0.01
0064	-16	0.005	1.0000	-0.00
0065	-19	0.017	1.0000	0.01
0066	-20	-0.000	1.0000	-0.01
0067	-21	0.008	1.0000	-0.00
0068	-22	0.001	1.0000	-0.01
0069	CCV7	0.911	1.0000	1.47
0070	CCB7	-0.001	1.0000	-0.01
0071	MB	-0.005	1.0000	-0.02
0072	LCS	0.861	1.0000	1.39
0073	D0543-3	0.113	1.0000	0.17
0074	-3d	0.106	1.0000	0.16
0075	-3ms	0.344	1.0000	0.55
0076	-3msd	0.340	1.0000	0.54
0077	CCV8	0.914	1.0000	1.48
0078	CCB8	0.002	1.0000	-0.01

376.2

6/1/06

5/31/06

5090 Caterpillar Road Redding, California 96003 (530) 244-5227 (530) 244-4109 fax

Columbia Analytical Services INC.
An Employee - Owned Company

RECEIVED
JUL 27 2006
TREADWELL & ROLLO

July 26, 2006

Josh Graber
Treadwell and Rollo
555 Montgomery St.
San Francisco, CA. 94111

RE: Presidio

ADDENDUM-D0600543

Dear Josh:

Enclosed is the amended data for the above-mentioned service request.

1. Run logs for anions (6/6/06 and 6/8/06 on instrument ICS-2000) are provided.
2. The Beryllium run log for the 10X dilution for sample D0600543-002 is provided (Form 14).
3. The Antimony and Silver run log for samples D0600543-001 through 004 is provided (Form 14).
4. The Carbon ranges for Diesel is C10-C20 and for Motor Oil is C20-C40.
5. The PEM data for Pesticide analysis for sample D0600543-002 is provided.
6. Calibration data for Acenaphthylene analyzed 6/28/06 on instrument LCI by Method 8310 is provided.

Columbia Analytical Services appreciates your business and looks forward to serving your future analytical needs. If you have any questions concerning the data or if you need additional information, please call me at (530) 244-5227 ex. 104.

Respectfully submitted,

Columbia Analytical Services, Inc.

Karen Sellers

Karen Sellers
Project Manager

NELAP Accredited ACIL Seal of Excellence Award 100% Recycled

Karen Sellers

From: Lisa Norosky [elnorocki@comcast.net]
Sent: Wednesday, July 12, 2006 12:33 PM
To: ksellers@redding.caslab.com
Cc: Donna Breaux
Subject: PT GWM 2Q06 - CAS laboratory items - SDG D0600543

Hi Karen,

The following items were found during validation of the CAS data package for PT GWM 2Q06:

1. The run logs for anions analyses (6/6/06 and 6/8/06 on instrument ICS-2000) are missing from the data package.
2. The run log for the 10X dilution of sample D0600543-002 for beryllium is missing from the data package. Beryllium was analyzed on instrument ELAN 9000 on 6/8/06.
3. The run log for antimony and silver for samples D0600543-001 thru -004 is missing from the data package. Antimony and silver were analyzed on instrument ELAN 9000 on 6/14/06.
4. *The initial calibration data for mercury is missing from the data package; the sample was analyzed on 5/30/06 on instrument PE FIMS.
5. *The initial calibration data for selenium is missing from the data package; the samples were analyzed on 6/19/06 on instrument PE GFAA 5100.
6. Please verify the carbon ranges that were reported for TPH-diesel and motor oil in samples D0600543-001 through -003. The samples were analyzed on 6/10/06 and 6/11/06 on instrument GCF.
7. Please provide the PEM data for pesticides analysis for sample D0600543-002, analyzed on 6/14/06 on instrument GCD.
8. Calibration data was not provided for acenaphthylene by method 8310. The samples were analyzed on 6/28/06 on instrument LCI.

Thank you,
Lisa (DataVal, Inc.)

still need to get these for you.
Karen

Sequence: ANIONS 060606
Operator: RDDACQUWC8
Printed: 6/7/2006 7:47:53 AM

Title: Anions Calibration 092205
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060606
Timebase: ICS-2000
#Samples: 41

Created: 6/6/2006 1:51:19 PM by RDDACQUWC8
Last Update: 6/7/2006 7:42:49 AM by RDDACQUWC8

No.	Name	Type	Pos.	Program	Method	Status	Inj. Date/Time
1	Rinse	Unknown	1	Anions_Program	Anions_Method	Finished	6/6/2006 1:51:39 PM
2	CS1	Standard	3	Anions_Program	Anions_Method	Finished	6/6/2006 2:06:15 PM
3	CS2	Standard	3	Anions_Program	Anions_Method	Finished	6/6/2006 2:20:51 PM
4	CS3	Standard	5	Anions_Program	Anions_Method	Finished	6/6/2006 2:35:28 PM
5	CS4	Standard	5	Anions_Program	Anions_Method	Finished	6/6/2006 2:50:04 PM
6	CS5	Standard	7	Anions_Program	Anions_Method	Finished	6/6/2006 3:04:41 PM
7	CS6	Standard	6	Anions_Program	Anions_Method	Finished	6/6/2006 3:19:17 PM
8	CS7	Standard	8	Anions_Program	Anions_Method	Finished	6/6/2006 3:33:54 PM
9	ICVS/LCS	Unknown	4	Anions_Program	Anions_Method	Finished	6/6/2006 3:48:30 PM
10	RL	Unknown	4	Anions_Program	Anions_Method	Finished	6/6/2006 4:03:07 PM
11	ICV/LCS	Unknown	13	Anions_Program	Anions_Method	Finished	6/6/2006 4:41:39 PM
12	RLS	Unknown	14	Anions_Program	Anions_Method	Finished	6/6/2006 4:56:15 PM
13	ICB	Unknown	14	Anions_Program	Anions_Method	Finished	6/6/2006 5:10:52 PM
14	MB	Unknown	13	Anions_Program	Anions_Method	Finished	6/6/2006 5:25:28 PM
15	LCSD	Unknown	14	Anions_Program	Anions_Method	Finished	6/6/2006 5:40:05 PM
16	D0600602-002.01	Unknown	45	Anions_Program	Anions_Method	Finished	6/6/2006 5:54:41 PM
17	D0600602-002.01MS	Unknown	49	Anions_Program	Anions_Method	Finished	6/6/2006 6:09:18 PM
18	D0600602-002.01MSD	Unknown	46	Anions_Program	Anions_Method	Finished	6/6/2006 6:23:54 PM
19	D0600543-001.43	Unknown	47	Anions_Program	Anions_Method	Finished	6/6/2006 6:38:31 PM
20	D0600543-001.43MS	Unknown	49	Anions_Program	Anions_Method	Finished	6/6/2006 6:53:07 PM
21	D0600543-001.43MSD	Unknown	50	Anions_Program	Anions_Method	Finished	6/6/2006 7:07:43 PM
22	CCVS	Unknown	50	Anions_Program	Anions_Method	Finished	6/6/2006 7:22:20 PM
23	CCB	Unknown	51	Anions_Program	Anions_Method	Finished	6/6/2006 7:36:56 PM
24	D0600543-002.16	Unknown	50	Anions_Program	Anions_Method	Finished	6/6/2006 7:51:33 PM
25	D0600543-003.27	Unknown	51	Anions_Program	Anions_Method	Finished	6/6/2006 8:06:09 PM
26	D0600543-004.40	Unknown	51	Anions_Program	Anions_Method	Finished	6/6/2006 8:20:46 PM
27	D0600543-001.43	Unknown	51	Anions_Program	Anions_Method	Finished	6/6/2006 8:35:22 PM
28	D0600543-001.43MS	Unknown	52	Anions_Program	Anions_Method	Finished	6/6/2006 8:49:59 PM
29	D0600543-001.43MSD	Unknown	53	Anions_Program	Anions_Method	Finished	6/6/2006 9:04:35 PM
30	D0600543-002-16	Unknown	52	Anions_Program	Anions_Method	Finished	6/6/2006 9:19:12 PM
31	D0600543-003.27	Unknown	53	Anions_Program	Anions_Method	Finished	6/6/2006 9:33:48 PM
32	D0600543-004.40	Unknown	54	Anions_Program	Anions_Method	Finished	6/6/2006 9:48:24 PM
33	CCVS	Unknown	55	Anions_Program	Anions_Method	Finished	6/6/2006 10:03:01 PM
34	CCB	Unknown	56	Anions_Program	Anions_Method	Finished	6/6/2006 10:17:37 PM
35	D0600555-001.02	Unknown	57	Anions_Program	Anions_Method	Finished	6/6/2006 10:32:14 PM
36	D0600598-001	Unknown	56	Anions_Program	Anions_Method	Finished	6/6/2006 10:46:50 PM
37	CCVS	Unknown	57	Anions_Program	Anions_Method	Finished	6/6/2006 11:01:27 PM
38	CCB	Unknown	45	Anions_Program	Anions_Method	Finished	6/6/2006 11:16:03 PM
39	RINSE	Unknown	46	Anions_Program	Anions_Method	Finished	6/6/2006 11:30:40 PM
40	AIR	Unknown	47	Anions_Program	Anions_Method	Finished	6/6/2006 11:45:16 PM
41	END	Unknown	14	Pump Shutdown	Anions_Method	Finished	6/6/2006 11:59:53 PM

Chromeleon © Dionex Corporation, Version 6.50 SP2 Build 968

Title: Anions Calibration 092205
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060606
Timebase: ICS-2000
#Samples: 41
Created: 6/6/2006 1:51:19 PM by RDDACQUWC8
Last Update: 6/7/2006 7:42:49 AM by RDDACQUWC8

No.	Dil. Factor
1	1.0000
2	1.0000
3	1.0000
4	1.0000
5	1.0000
6	1.0000
7	1.0000
8	1.0000
9	1.0000
10	1.0000
11	1.0000
12	1.0000
13	1.0000
14	1.0000
15	1.0000
16	1.0000
17	1.1000
18	1.1000
19	5.0000
20	5.0000
21	5.0000
22	1.0000
23	1.0000
24	5.0000
25	5.0000
26	5.0000
27	1.0000
28	1.1000
29	1.1000
30	1.0000
31	1.0000
32	1.0000
33	1.0000
34	1.0000
35	5.0000
36	5.0000
37	1.0000
38	1.0000
39	1.0000
40	1.0000
41	1.0000

Chromeleon © Dionex Corporation, Version 6.50 SP2 Build 968

Title: Anions_Program
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060606\ANIONS 06060 Created: 8/18/2005 5:57:57 PM by RDDACQUWC6
Timebase: ICS-2000 Changed: 9/22/2005 11:59:56 AM by RDDACQUWC6

```
;Anions Program / EPA 300.0, 300.1 / Bob Coleman 8-18-2005

        Pressure.LowerLimit =          200
        Pressure.UpperLimit =          3000
        %A.Equate =                    "Water"
        CR_TC =                        On
        LoadPosition
        Data_Collection_Rate =         5.0
        CellTemperature =              30.0
        ColumnTemperature =            30.0
        Suppressor_Type =              ASRS_4mm
        ; Hydroxide =                  30.0
        ; Recommended Current =        75
        Suppressor_Current =           75
        Concentration =                30.00
        Curve =                        5
        Flow =                         1.00

-2.500  Pump_ECD_Relay_1.Closed        Duration=6

 0.000  Pump_ECD.Autozero
        ECD_1.AcqOn
        Pump_InjectValve.InjectPosition          Duration=600
5.000   Log                            Pump_ECD_Relay_1.State
        Pump_ECD_Relay_1.Open          ;make sure relay is open
12.000  ECD_1.AcqOff
        End
```

Title: Anions_Program
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060606\ANIONS 060606.SEQ
Timebase: ICS-2000

Created: 8/18/2005 5:57:57 PM by RDDACQUWC6
Changed: 9/22/2005 11:59:56 AM by RDDACQUWC6

No. Channel Operation Parameters

Title: End of Run
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060606\ANIONS 06(Created: 6/21/2005 11:20:54 AM by reddingadmin
Timebase: ICS-2000 Changed: 7/7/2005 3:33:24 PM by reddingadmin

```
;End program for shutting down the ICS-2000 pumps / BLC, 6-22-2005

        Pressure.LowerLimit =          200
        Pressure.UpperLimit =          3000
        %A.Equate =                    "Water"
        CR_TC =                        On
        LoadPosition
        Data_Collection_Rate =         5.0
        CellTemperature =              30.0
        ColumnTemperature =            30.0
        Suppressor_Type =              ASRS_4mm
        ; Carbonate =                  0.0
        ; Bicarbonate =                0.0
        ; Hydroxide =                  65.0
        ; Tetraborate =                0.0
        ; Other eluent =               0.0
        ; Recommended Current =        193
        Suppressor_Current =           200
        ECD_Total.Step =               0.50
        ECD_Total.Average =            Off
        Channel_Pressure.Step =        0.50
        Channel_Pressure.Average =     Off
        Concentration =                65.00
        Curve =                        5
        Flow =                         1.20

-0.100  Pump_ECD_Relay_1.Closed        Duration=1

 0.000  Pump_ECD.Autozero
        ECD_1.AcqOn
        ECD_Total.AcqOn
        Channel_Pressure.AcqOn
        Pump_InjectValve.InjectPosition          Duration=0.1
        Pump_ECD_Relay_1.Open          ;make sure relay is open
0.1000  ECD_1.AcqOff
        ECD_Total.AcqOff
        Channel_Pressure.AcqOff
        Suppressor_Current =           0
        Off
        End
```

Title: End of Run
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060606\ANIONS 060606.SEQ
Timebase: ICS-2000

Created: 6/21/2005 11:20:54 AM by reddingadmin
Changed: 7/7/2005 3:33:24 PM by reddingadmin

No. Channel Operation Parameters

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060606\ANIONS 060606.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Minimum Area	0.025 "[Signal]*min"	All Channels
2	0.000	Inhibit Integration	On	All Channels
3	1.000	Void Volume Treatment	On	All Channels
4	2.800	Inhibit Integration	On	All Channels
5	2.800	Void Volume Treatment	Off	All Channels
6	3.000	Inhibit Integration	Off	All Channels
7	3.000	Inhibit Integration	Off	All Channels

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060606\ANIONS 060606.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

Peak Table:

Use Recently Detected Ret. Times: Average of last 4 standards
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Resp.Fact.	Comment
1	Fluoride	3.147 min	5.000 RG	External	Area	0LOff	B-M-B		1.000000	Autogenerated
2	*Chloride*	*4.600 min*	*5.000 RG*	*External*	*Area*	*0LOff*	*B-M-B*		*1.000000*	*Autogenerated*
3	Sulfate	7.083 min	5.000 RG	External	Area	0LOff	B-M-B		1.000000	Autogenerated
4	Bromide	7.953 min	5.000 RG	External	Area	0LOff	B-M-B		1.000000	Autogenerated
5	Nitrate	9.517 min	5.000 RG	External	Area	0LOff	B-M-B		1.000000	Autogenerated

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060606\ANIONS 060606.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

Peak Table:

Use Recently Detected Ret. Times: Average of last 4 standards
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Amount CS1	Amount CS2	Amount CS3	Amount CS4	Amount CS5	Amount CS6	Amount CS7	Amount CS8	Amount CS9
1	Fluoride	3.147 min	0.000000	0.200000	1.000000	2.000000	6.000000	10.000000			
2	*Chloride*	*4.600 min*	*0.000000*	*0.400000*	*2.000000*	*4.000000*	*12.000000*	*20.000000*	*40.000000*		
3	Sulfate	7.083 min	0.000000	0.800000	4.000000	8.000000	24.000000	40.000000	80.000000		
4	Bromide	7.953 min	0.000000	0.500000	2.500000	5.000000	15.000000	25.000000	50.000000		
5	Nitrate	9.517 min	0.000000	0.100000	0.500000	1.000000	3.000000	5.000000	10.000000		

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060606\ANIONS 060606.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

Amount Table:

Dimension of Amounts: mg/L
Reference Volume for Amounts: Use inject volume of first standard

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Left Limit	Right Limit	Group
1	Fluoride	3.147 min	5.000 RG	External	Area	0LOff	B-M-B	0.000	0.000	
2	*Chloride*	*4.600 min*	*5.000 RG*	*External*	*Area*	*0LOff*	*B-M-B*	*0.000*	*0.000*	
3	Sulfate	7.083 min	5.000 RG	External	Area	0LOff	B-M-B	0.000	0.000	
4	Bromide	7.953 min	5.000 RG	External	Area	0LOff	B-M-B	0.000	0.000	
5	Nitrate	9.517 min	5.000 RG	External	Area	0LOff	B-M-B	0.000	0.000	

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060606\ANIONS 060606.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

Amount Table:

Dimension of Amounts: mg/L
Reference Volume for Amounts: Use inject volume of first standard

No.	Peak Name	Ret.Time	Resp.Fact.	Comment
1	Fluoride	3.147 min	1.000000	Autogenerated
2	*Chloride*	*4.600 min*	*1.000000*	*Autogenerated*
3	Sulfate	7.083 min	1.000000	Autogenerated
4	Bromide	7.953 min	1.000000	Autogenerated
5	Nitrate	9.517 min	1.000000	Autogenerated

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060606\ANIONS 060606.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time	Sample Comment
1		[illegible]	0	0	25.0	1.0000	1.0000	1.0000	6/6/2006 2:06:15 PM	
2		[illegible]	2	2	25.0	1.0000	1.0000	1.0000	6/6/2006 2:20:51 PM	
3		[illegible]	3	3	25.0	1.0000	1.0000	1.0000	6/6/2006 2:35:28 PM	
4		[illegible]	4	4	25.0	1.0000	1.0000	1.0000	6/6/2006 2:50:04 PM	
5		[illegible]	5	5	25.0	1.0000	1.0000	1.0000	6/6/2006 3:04:41 PM	
6		[illegible]	6	6	25.0	1.0000	1.0000	1.0000	6/6/2006 3:19:17 PM	
7		[illegible]	7	7	25.0	1.0000	1.0000	1.0000	6/6/2006 3:33:54 PM	

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060606\ANIONS 060606.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Calib. Comment
[illegible]		[illegible]	Couldn't find the peak in the chromatogram
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060606\ANIONS 060606.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

System Suitability Test:

No.	Name	Sample Condition	Test Condition	Aggregate	Operator	Value	Channel	Peak	N.A.
1									

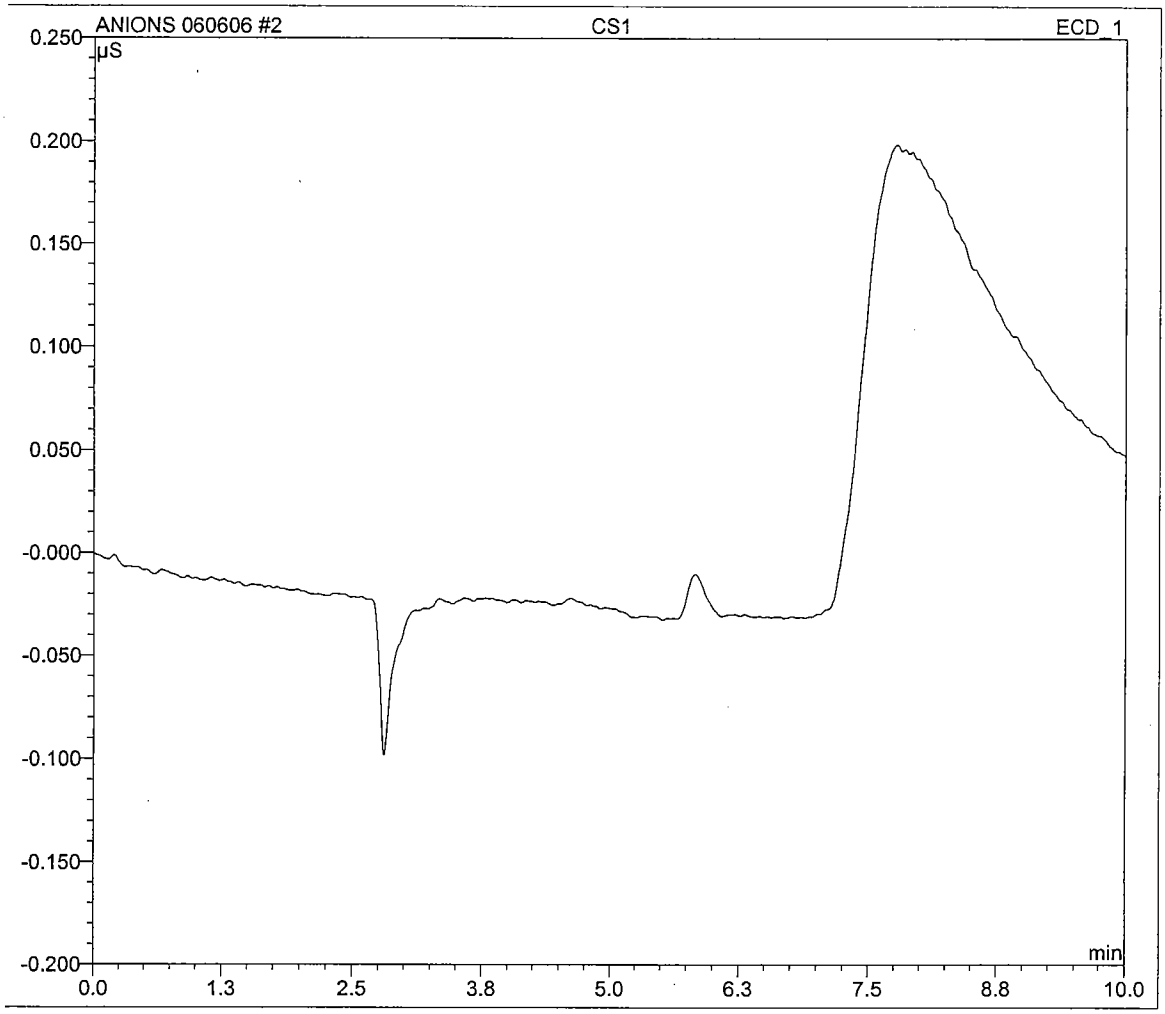
Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060606\ANIONS 060606.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

System Suitability Test:

No.	Name	Fail-Action	Result	SST Message
1				

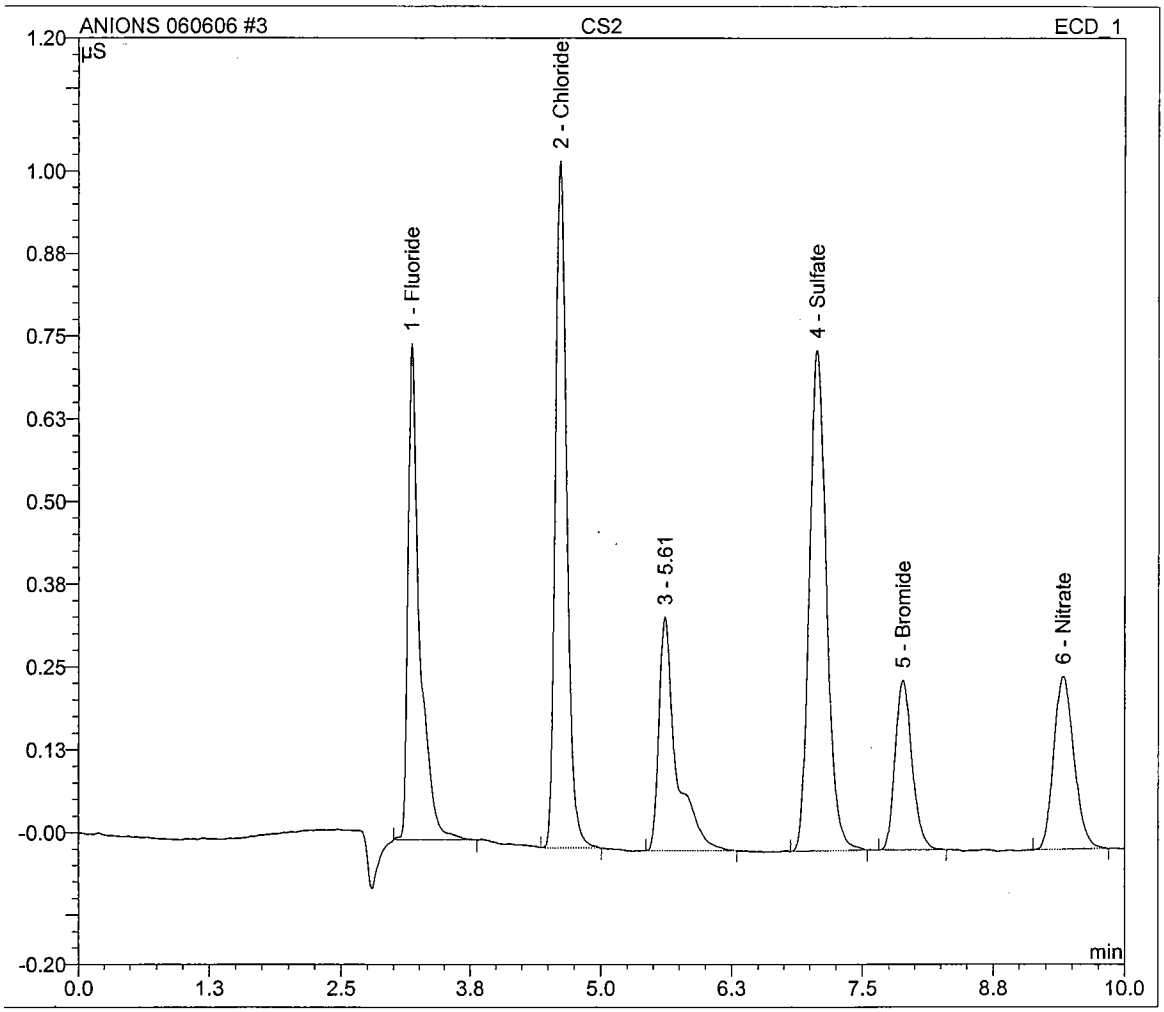
Sample Name:	**CS1**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06.06.06 14:06**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
			TOTAL:	0.00	0.00	0.00



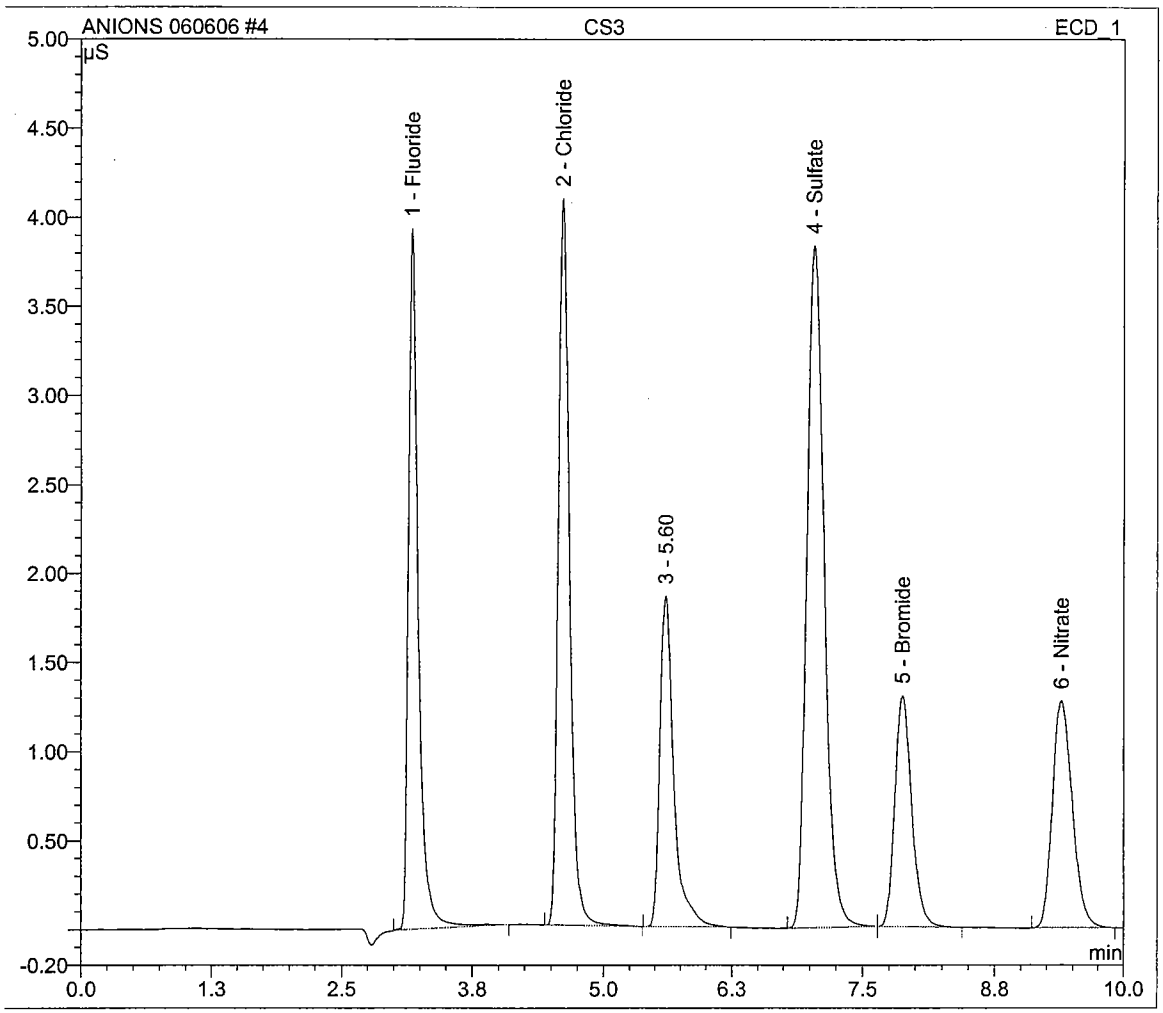
Sample Name:	**CS2**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06.06.06 14:20**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.18	Fluoride	BMB	0.098	0.749	0.2206
2	4.61	Chloride	BMB	0.129	1.039	0.4505
4	7.06	Sulfate	BMB	0.144	0.756	0.7546
5	7.89	Bromide	BMB	0.049	0.256	0.6216
6	9.42	Nitrate	BMB	0.059	0.261	0.1236
		TOTAL:		0.48	3.06	2.17



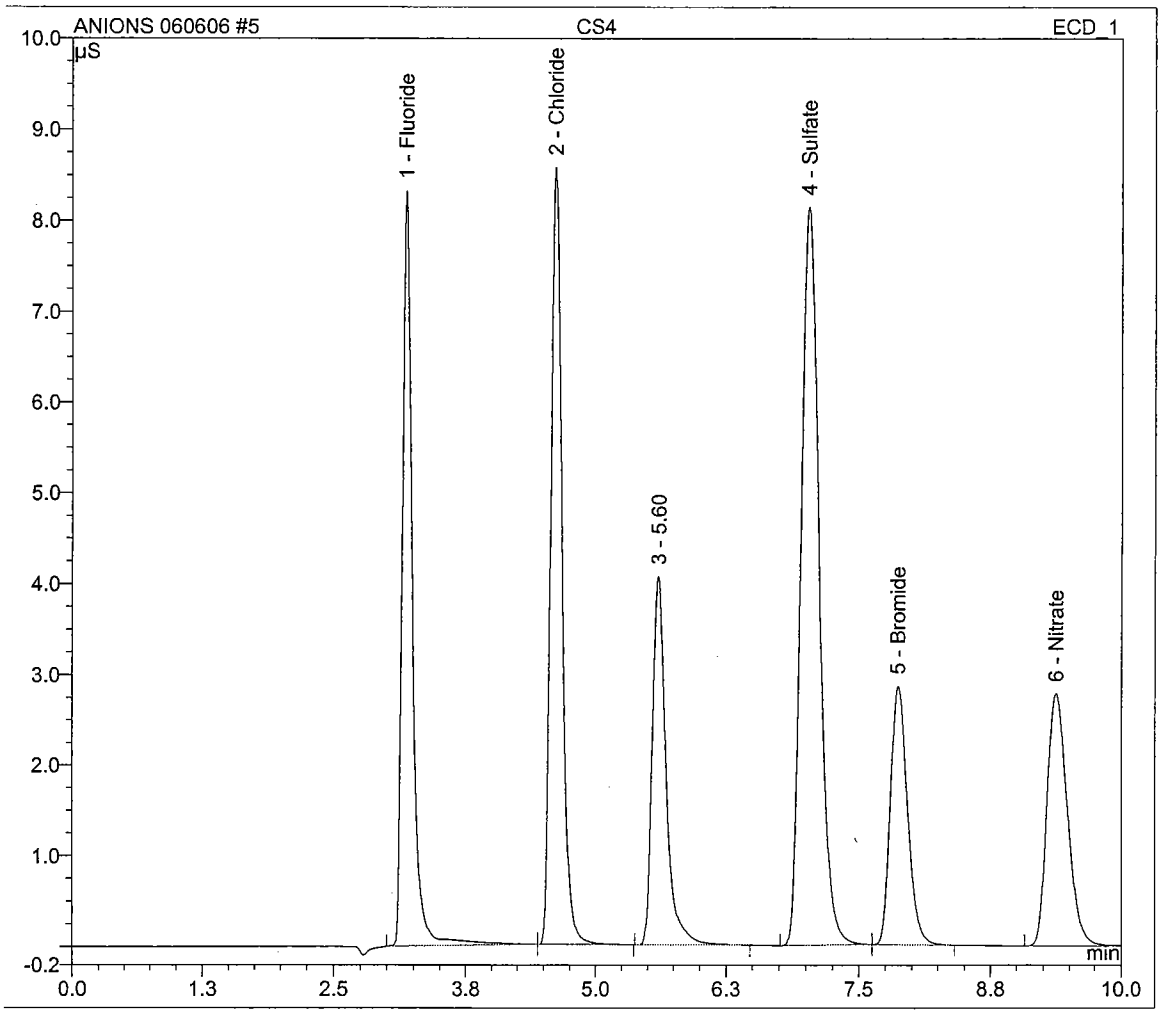
Sample Name:	**CS3**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06.06.06 14:35**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.18	Fluoride	BMB	0.433	3.934	0.9551
2	4.61	Chloride	BMB	0.509	4.081	1.8001
4	7.04	Sulfate	BMb	0.725	3.831	3.5647
5	7.88	Bromide	bMB	0.242	1.294	2.2374
6	9.39	Nitrate	BMB	0.285	1.274	0.4436
		TOTAL:		2.19	14.41	9.00



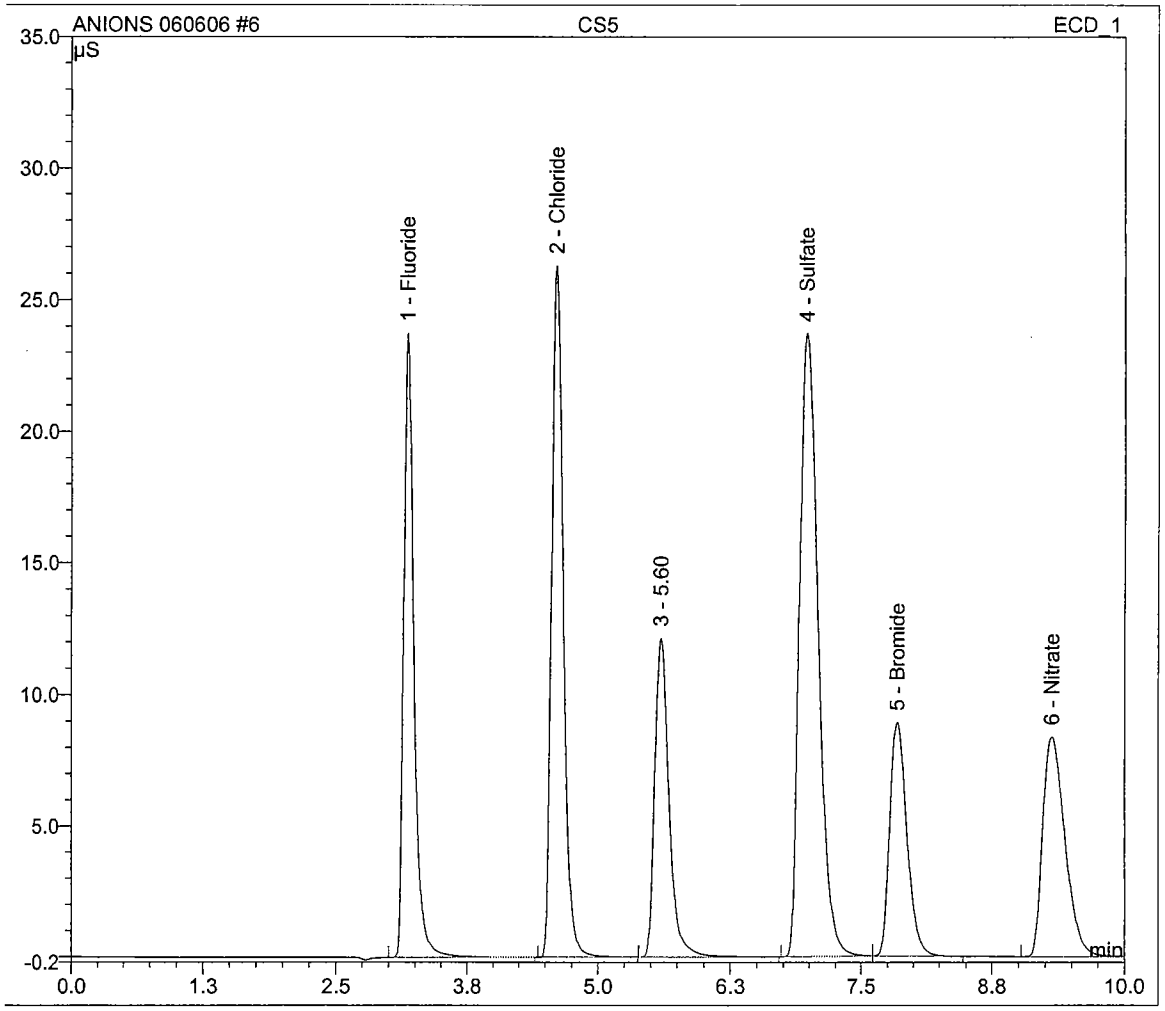
Sample Name:	**CS4**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06.06.06 14:50**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.18	Fluoride	BMb	0.929	8.316	2.0451
2	4.61	Chloride	bMB	1.069	8.559	3.7945
4	7.03	Sulfate	BMb	1.572	8.131	7.6574
5	7.87	Bromide	bMB	0.534	2.854	4.6777
6	9.37	Nitrate	BMB	0.632	2.785	0.9349
		TOTAL:		4.74	30.65	19.11



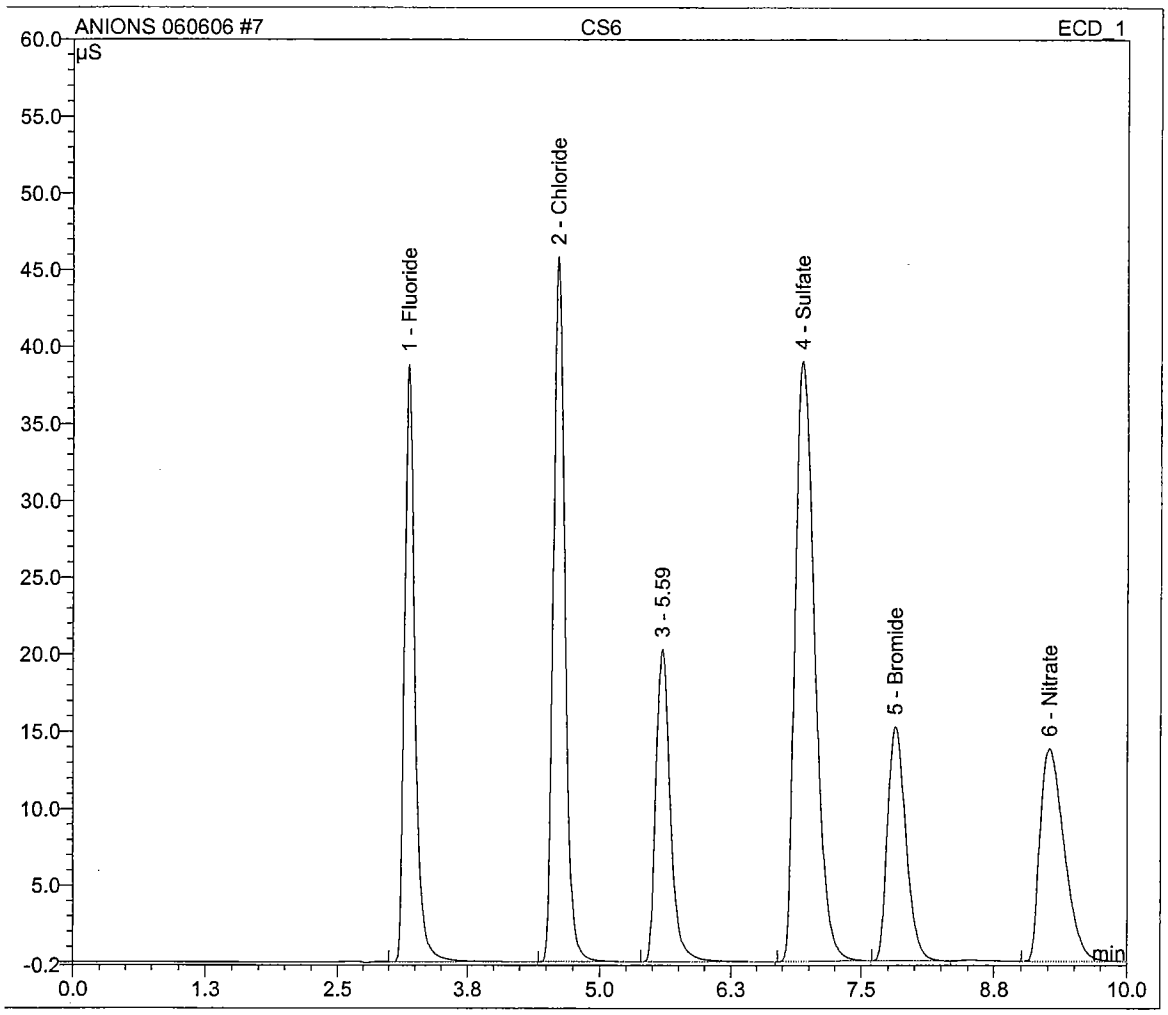
Sample Name:	**CS5**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06.06.06 15:04**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.18	Fluoride	BMB	2.707	23.741	5.9459
2	4.61	Chloride	BMB	3.337	26.301	11.8709
4	6.98	Sulfate	BMb	4.909	23.698	23.7901
5	7.84	Bromide	bMB	1.729	8.897	14.6563
6	9.32	Nitrate	BMB	2.049	8.381	2.9395
		TOTAL:		14.73	91.02	59.20



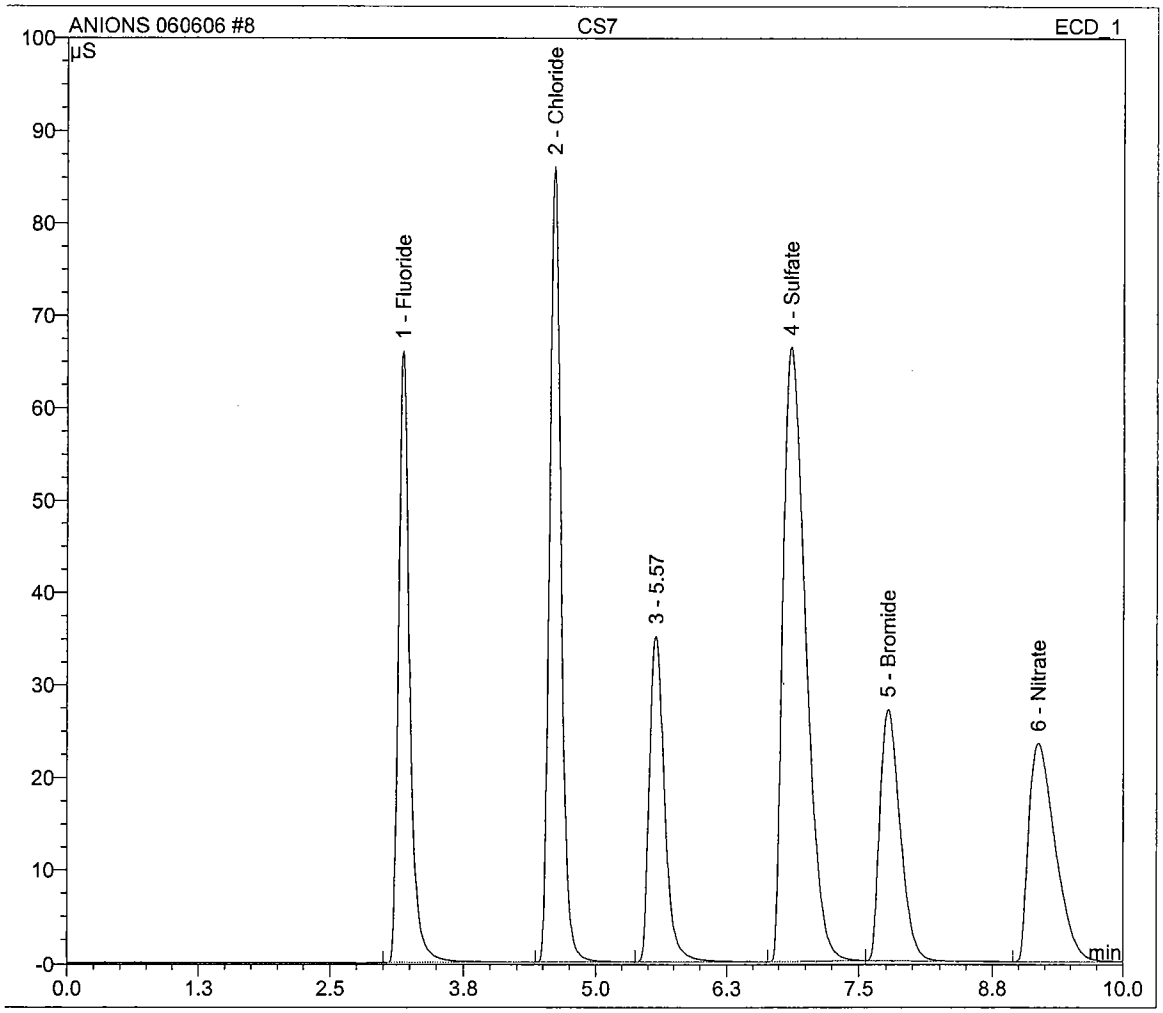
Sample Name:	**CS6**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06.06.06 15:19**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.18	Fluoride	BMB	4.568	38.827	10.0275
2	4.61	Chloride	BMB	5.859	45.837	20.8517
4	6.93	Sulfate	BMB	8.616	39.012	41.7135
5	7.82	Bromide	BMB	3.073	15.223	25.8892
6	9.27	Nitrate	BMB	3.634	13.857	5.1809
		TOTAL:		25.75	152.76	103.66



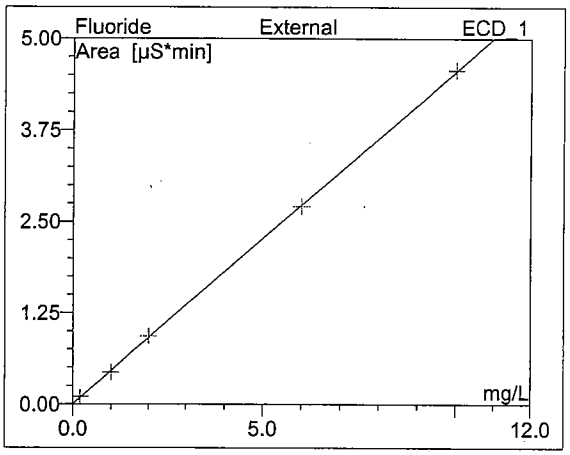
Sample Name:	**CS7**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06.06.06 15:33**	*Run Time:*	**12.00**

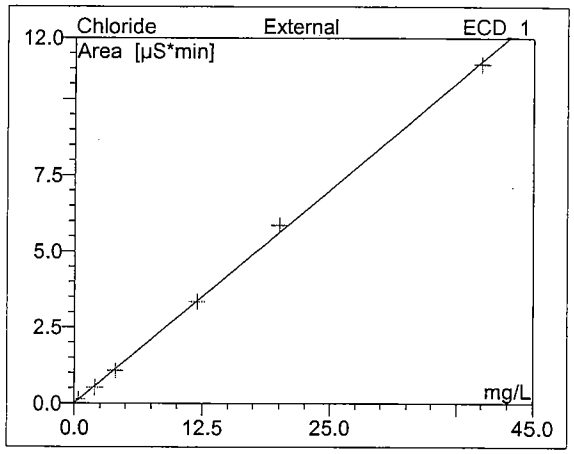
No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.18	Fluoride	BMB	8.145	66.113	17.8769
2	4.60	Chloride	BMB	11.136	86.085	39.6429
4	6.86	Sulfate	BMB	16.382	66.475	79.2627
5	7.77	Bromide	BMB	5.924	27.220	49.7027
6	9.19	Nitrate	BMB	6.996	23.654	9.9368
		TOTAL:		48.58	269.55	196.42

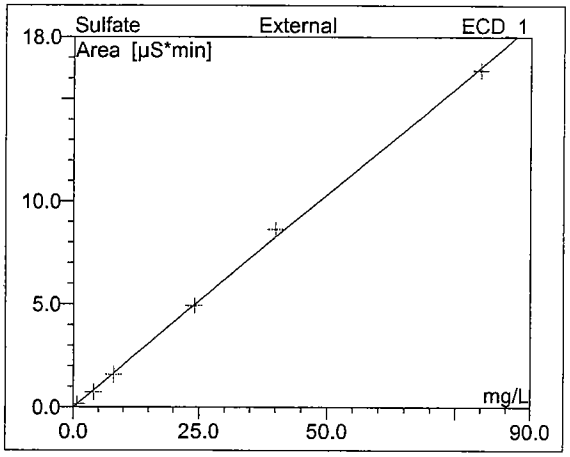


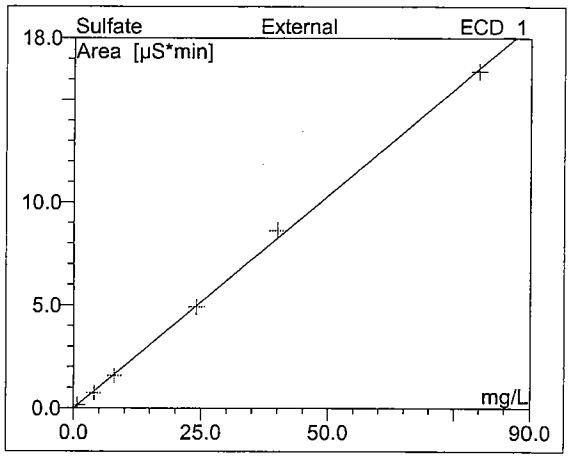
Calibration Batch Report

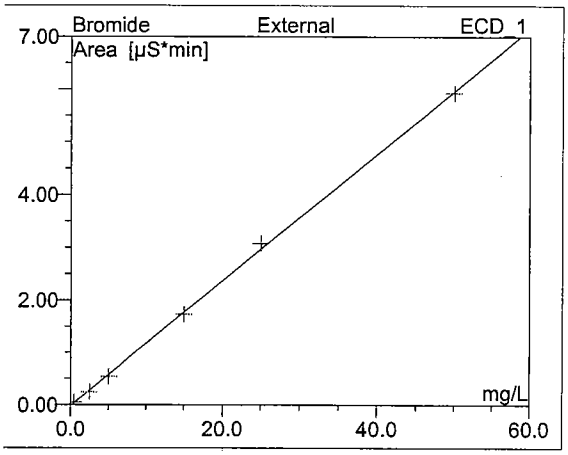
Sequence:	**ANIONS 060606**	Inj. Vol.:	**25.0**
Program:	**Anions_Program**	Operator:	**RDD-ACQU-WC-8**
Inj. Date/Time:	**06/06/06 15:33**	Run Time:	**12.00**

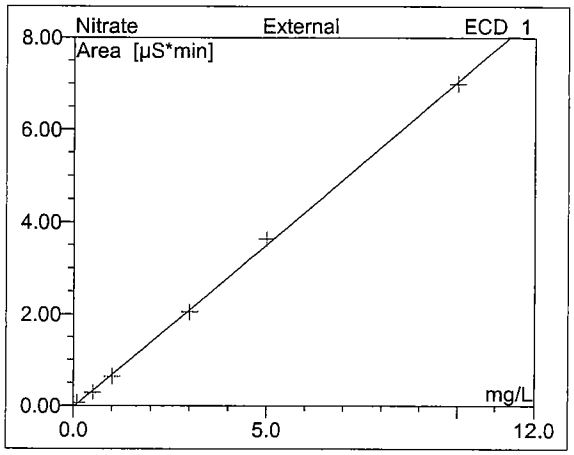












Sequence:	**ANIONS 060606**	*Inj. Vol.:*	**25.0**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06/06/06 15:33**	*Run Time:*	**12.00**

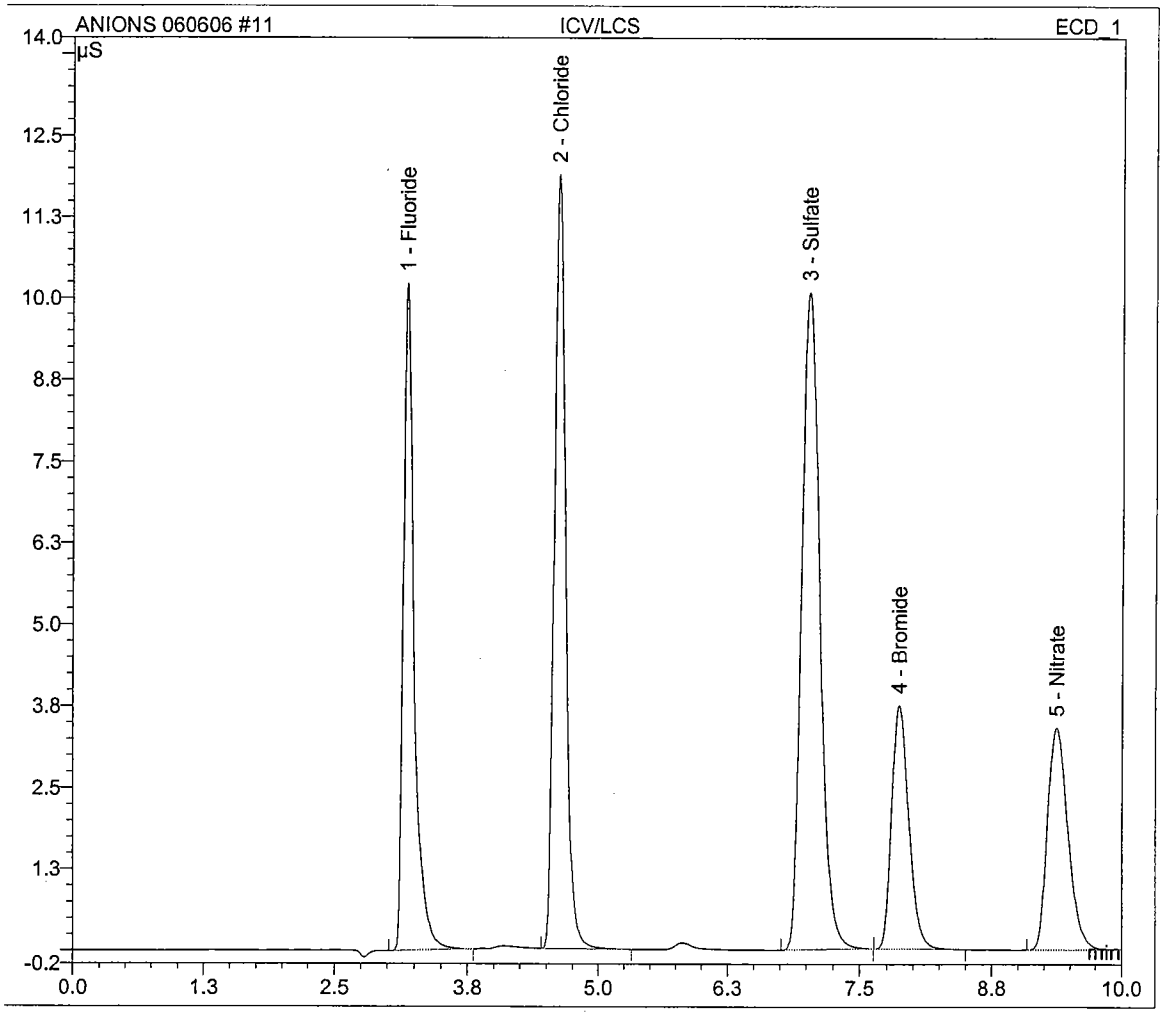
No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	2.96	Fluoride	0LOff	5	0.005	0.465	0.000	99.999
2	4.01	Chloride	0LOff	8	-0.061	0.290	0.000	99.991
3	4.72	Nitrite	0LOff	7	0.008	0.665	0.000	99.992
4	5.48	Sulfate	0LOff	8	-0.082	0.218	0.000	99.995
5	6.43	Bromide	0LOff	7	-0.026	0.125	0.000	99.954
6	7.35	Nitrate	0LOff	6	-0.041	0.713	0.000	99.978
AVERAGE:					-0.0329	0.4126	0.0000	99.9846

No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	3.183333333	Fluoride	0LOff	5	-0.002646	0.455766	0	99.99395069
2	4.6	Chloride	0LOff	6	0.002978	0.280844	0	99.95814934
4	6.863333333	Sulfate	0LOff	6	-0.011792	0.206823	0	99.95803005
5	7.77	Bromide	0LOff	6	-0.025768	0.119697	0	99.96728884
6	9.186666667	Nitrate	0LOff	6	-0.028796	0.706956	0	99.96657767

0.0
-5.00

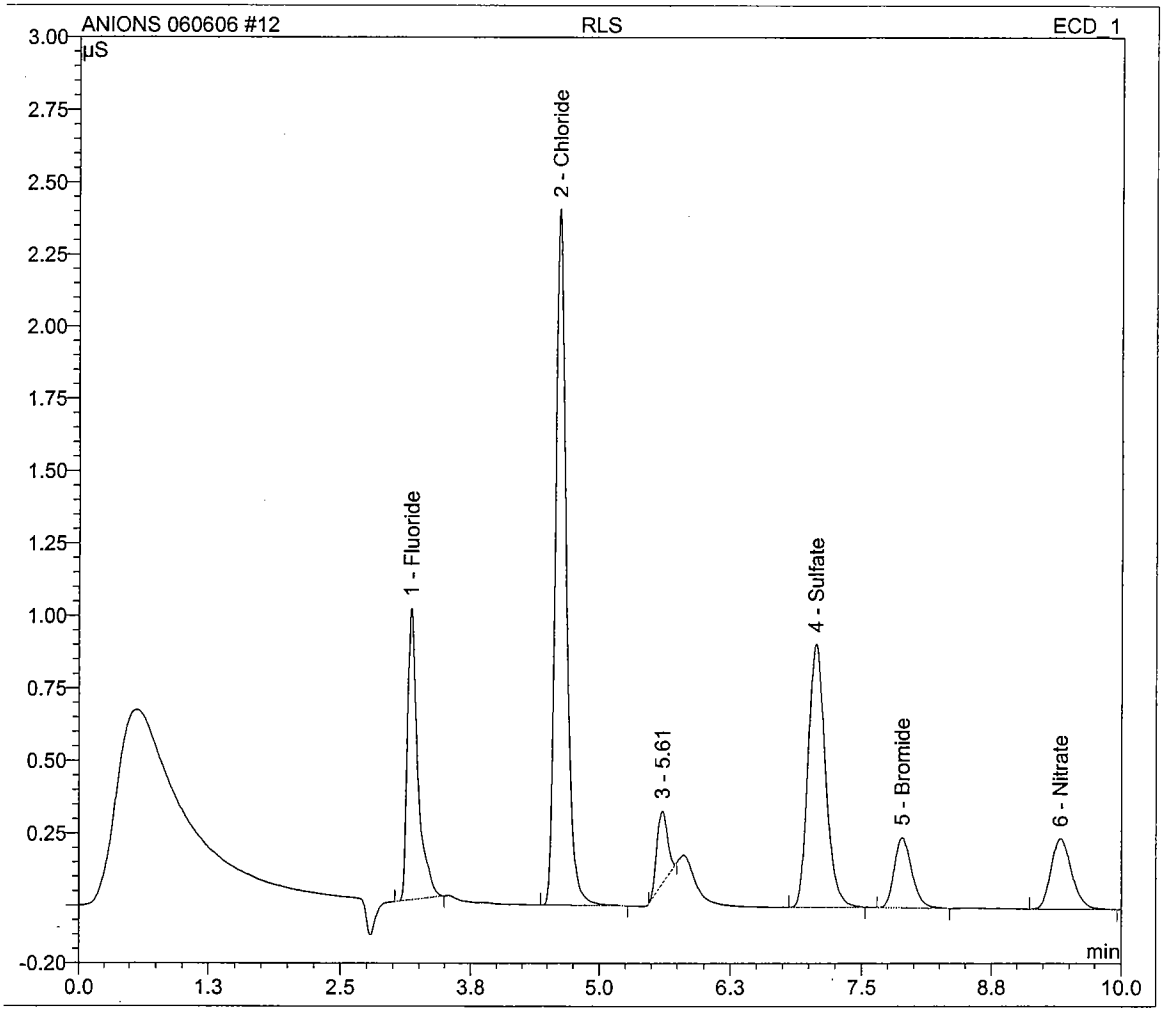
Sample Name:	**ICV/LCS**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06.06.06 16:41**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L	%R
1	3.18	Fluoride	BMB	1.198	10.225	2.6348	105
2	4.61	Chloride	BMB	1.500	11.874	5.3309	107
3	7.02	Sulfate	BMB	1.975	10.070	9.6066	96
4	7.87	Bromide	BMB	0.706	3.738	6.1110	98
5	9.37	Nitrate	BMB	0.779	3.403	1.1431	91
			TOTAL:	6.16	39.31	24.83	



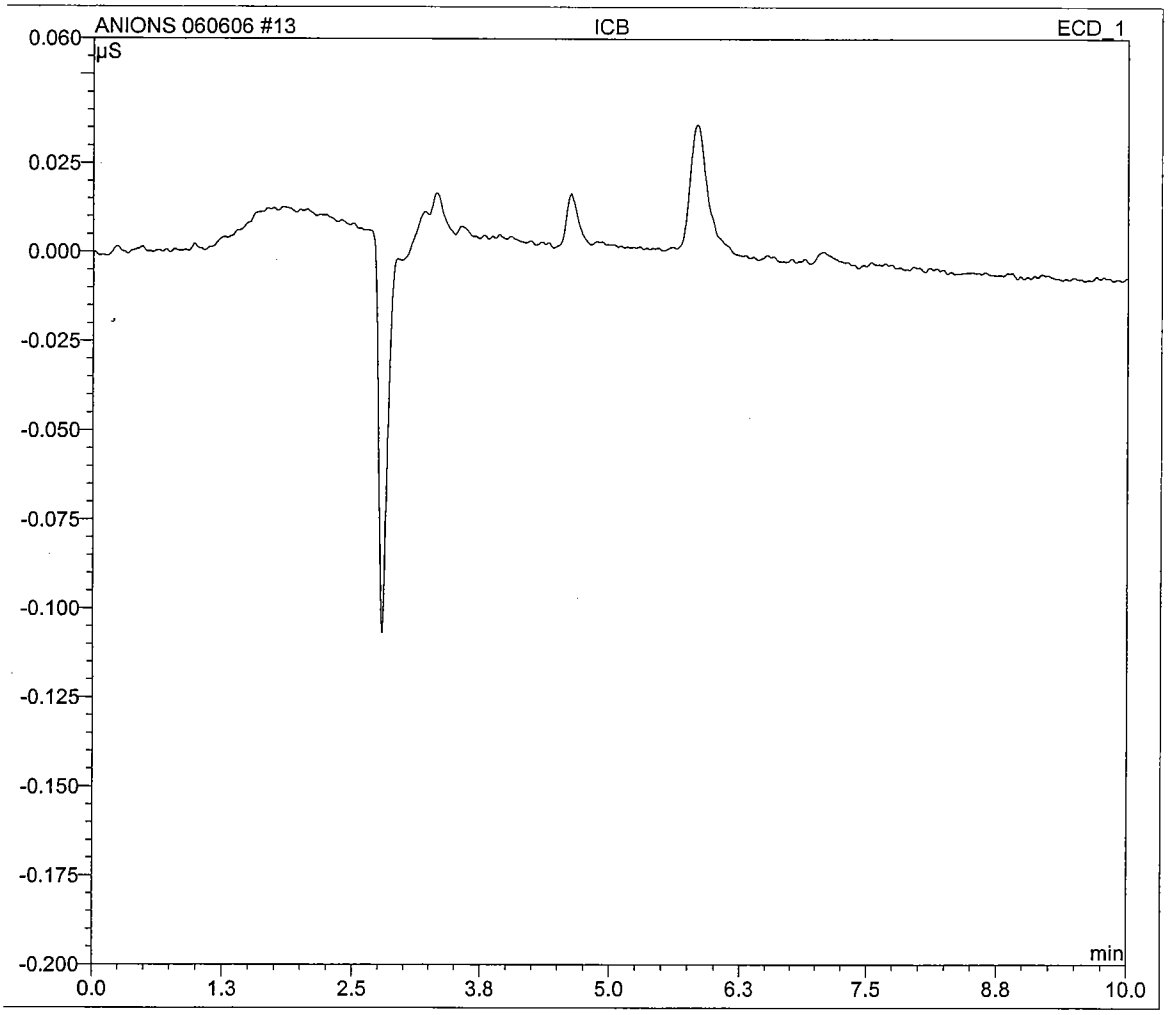
Sample Name:	**RLS**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06.06.06 16:56**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L	%R
1	3.17	Fluoride	BMB	0.115	1.006	0.2583	103
2	4.61	Chloride	BMB	0.303	2.405	1.0671	107
4	7.06	Sulfate	BMB	0.175	0.909	0.9020	90
5	7.89	Bromide	BMB	0.047	0.244	0.6121	122
6	9.42	Nitrate	BMB	0.057	0.245	0.1208	121
		TOTAL:		0.70	4.81	2.96	



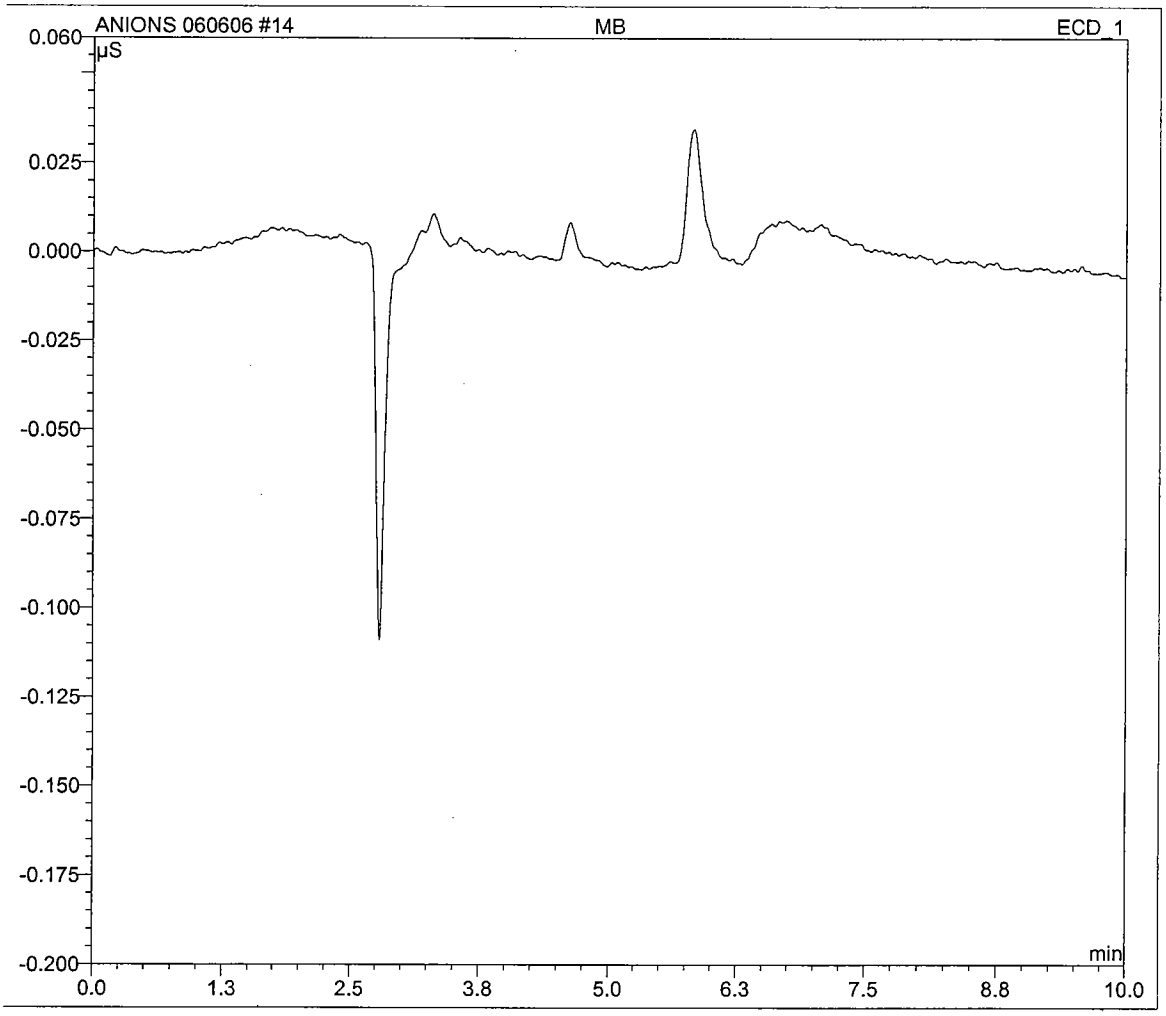
Sample Name:	**ICB**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06.06.06 17:10**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
		TOTAL:		0.00	0.00	0.00



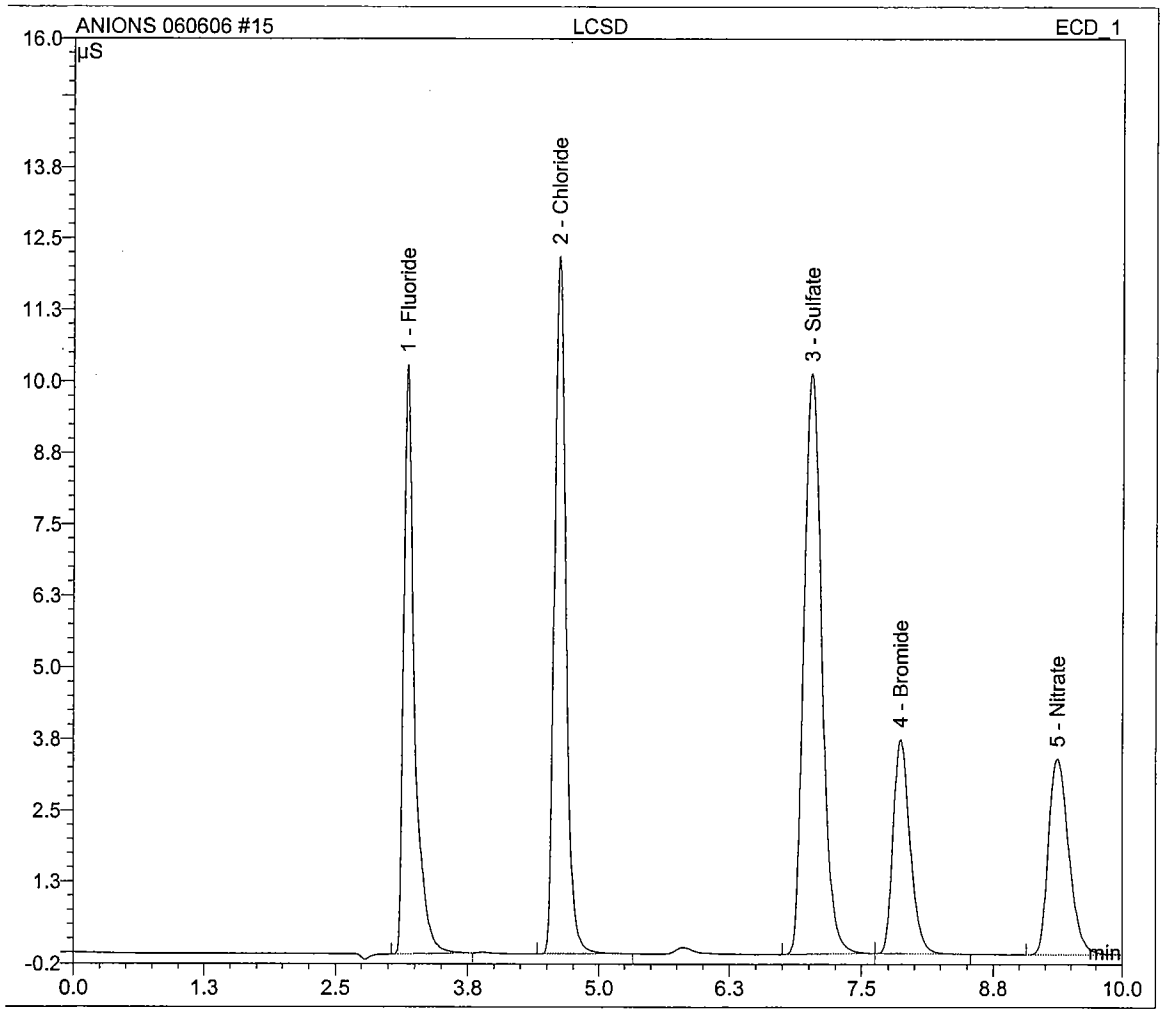
Sample Name:	**MB**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06.06.06 17:25**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
		TOTAL:		0.00	0.00	0.00



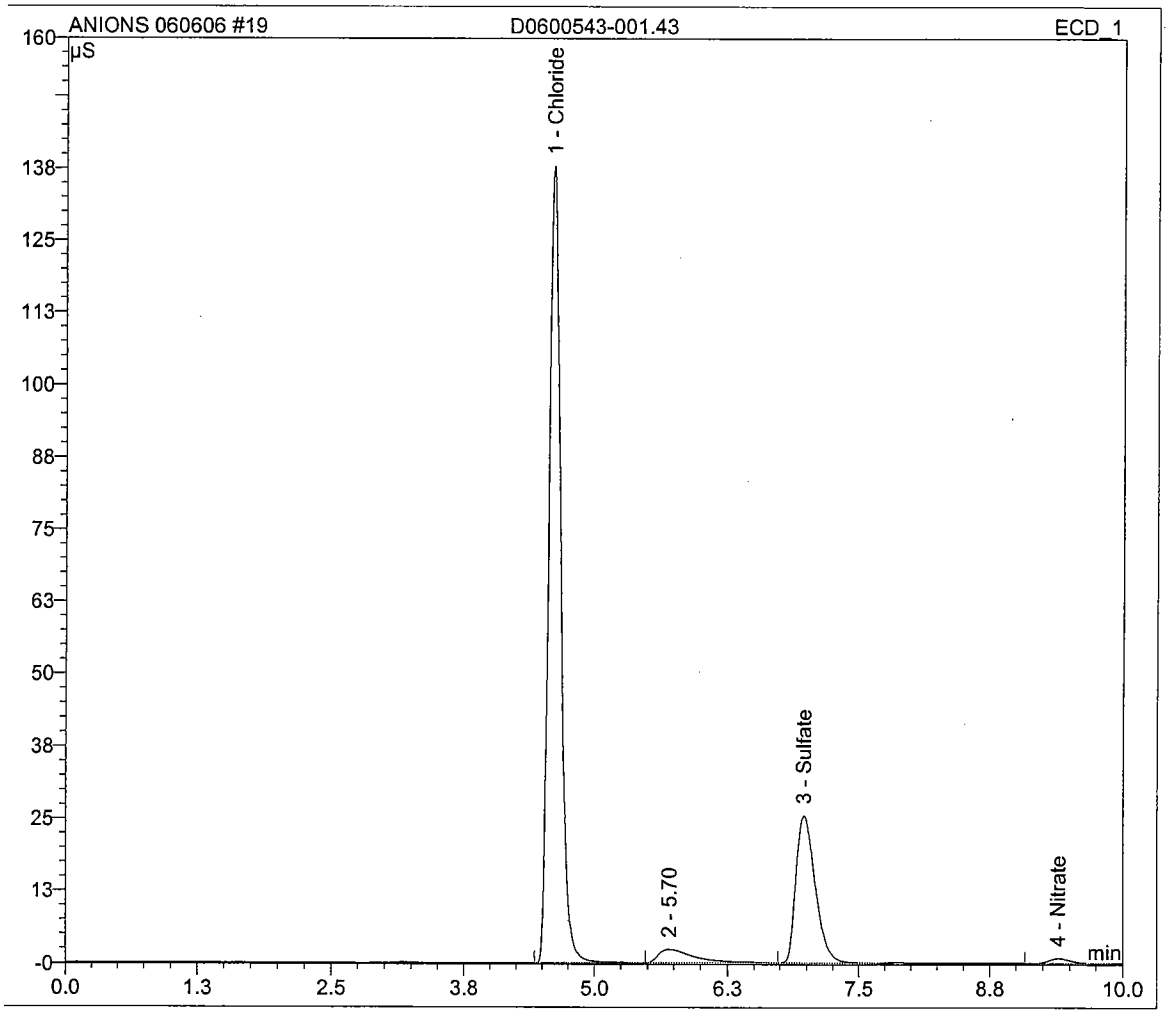
Sample Name:	**LCSD**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06.06.06 17:40**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L	%R
1	3.18	Fluoride	BMB	1.232	10.316	2.7083	108
2	4.61	Chloride	BMB	1.547	12.210	5.4969	109.9
3	7.02	Sulfate	BMb	1.992	10.162	9.6901	96.9
4	7.87	Bromide	bMB	0.711	3.759	6.1530	98.4
5	9.37	Nitrate	BMB	0.786	3.437	1.1532	92.3
			TOTAL:	6.27	39.88	25.20	



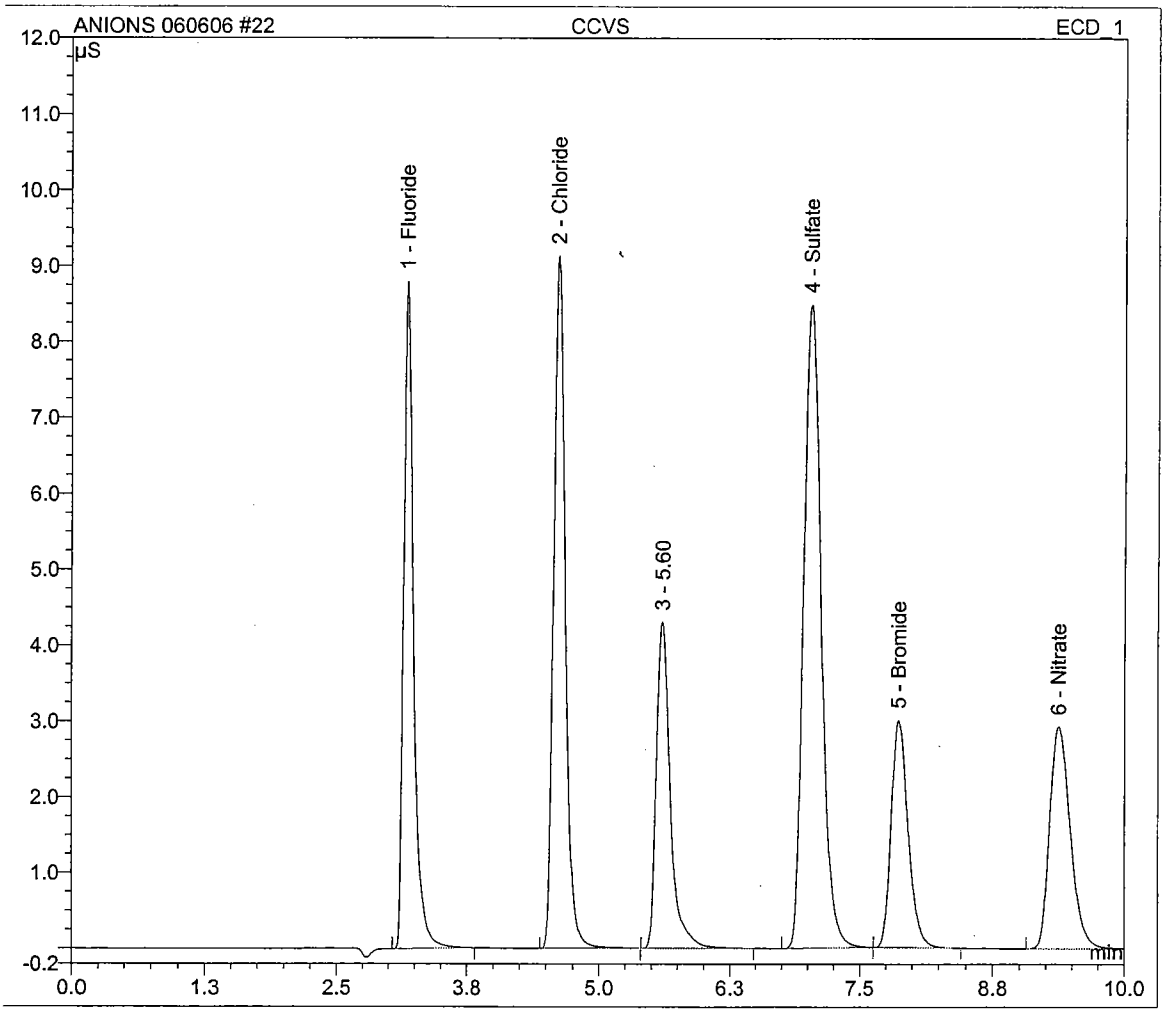
Sample Name:	**D0600543-001.43**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**5.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06.06.06 18:38**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	4.60	Chloride	BMB	18.134	137.864	322.7992
3	6.97	Sulfate	bMB	5.453	25.505	132.1019
4	9.40	Nitrate	BMB	0.190	0.839	1.5467
		TOTAL:		23.78	164.21	456.45



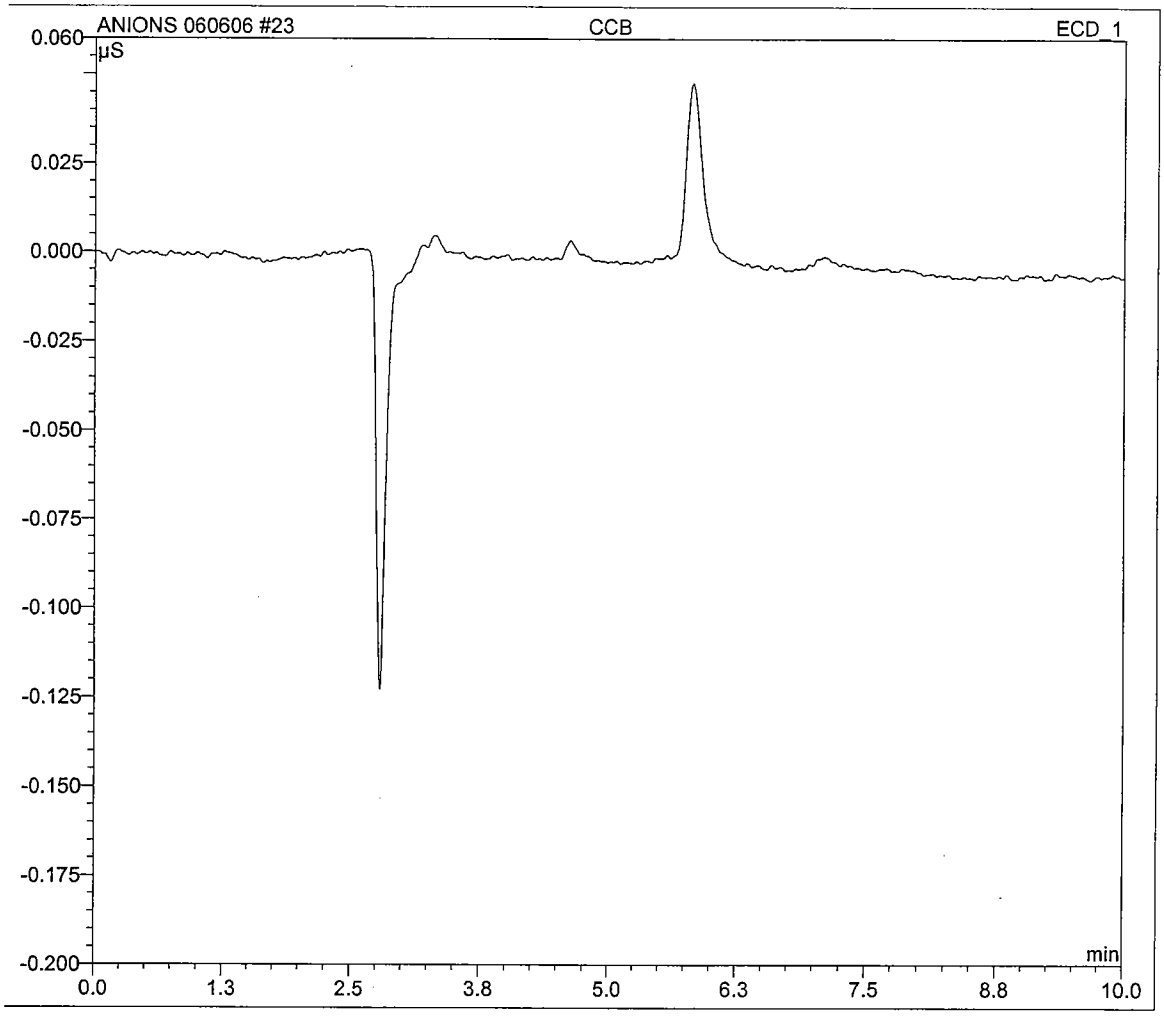
Sample Name:	**CCVS**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06.06.06 19:22**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L	% R
1	3.18	Fluoride	BMB	0.972	8.794	2.1391	107
2	4.61	Chloride	BMB	1.156	9.127	4.1066	105
4	7.03	Sulfate	BMB	1.665	8.480	8.1070	101
5	7.87	Bromide	BMB	0.565	3.001	4.9375	99
6	9.37	Nitrate	BMB	0.670	2.934	0.9883	99
			TOTAL:	5.03	32.34	20.28	



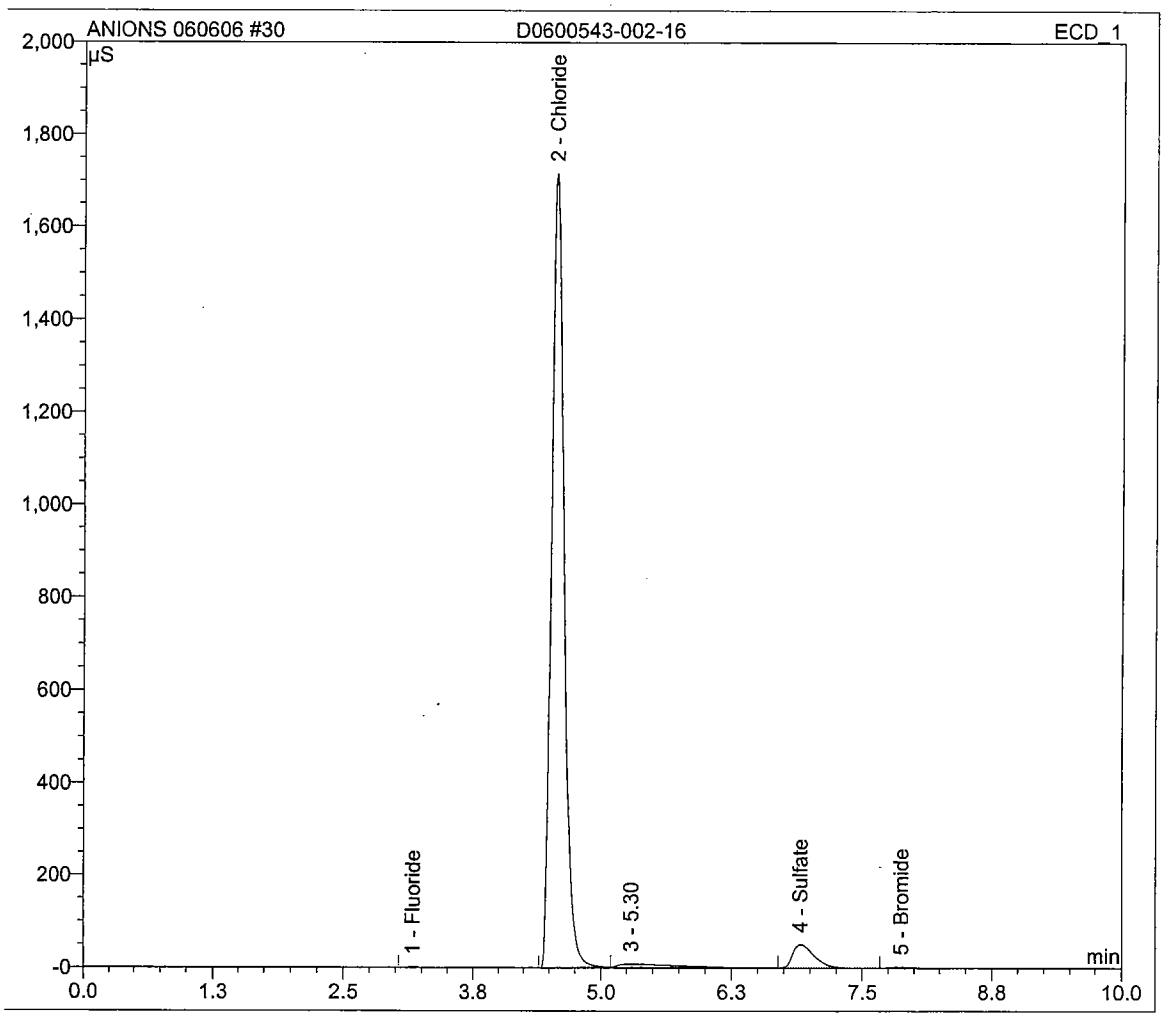
Sample Name:	**CCB**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06.06.06 19:36**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
			TOTAL:	0.00	0.00	0.00



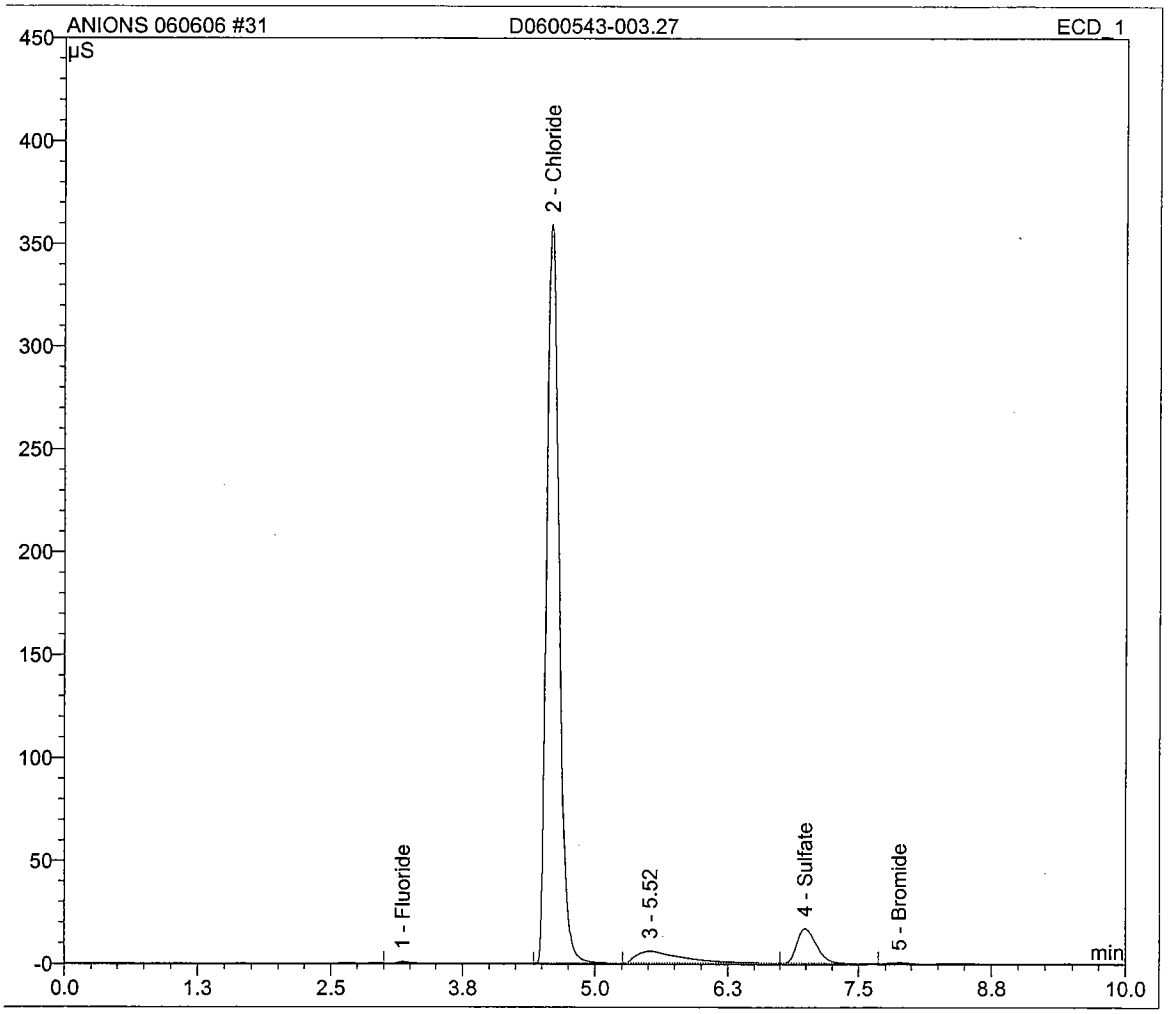
Sample Name:	**D0600543-002-16**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06.06.06 21:19**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.17	Fluoride	BMB	0.109	0.879	0.2447
2	4.56	Chloride	BMb	241.550	1715.993	860.0776
4	6.91	Sulfate	BMB	11.543	49.598	55.8692
5	7.88	Bromide	BMB	0.259	1.405	2.3773
		TOTAL:		253.46	1767.88	918.57



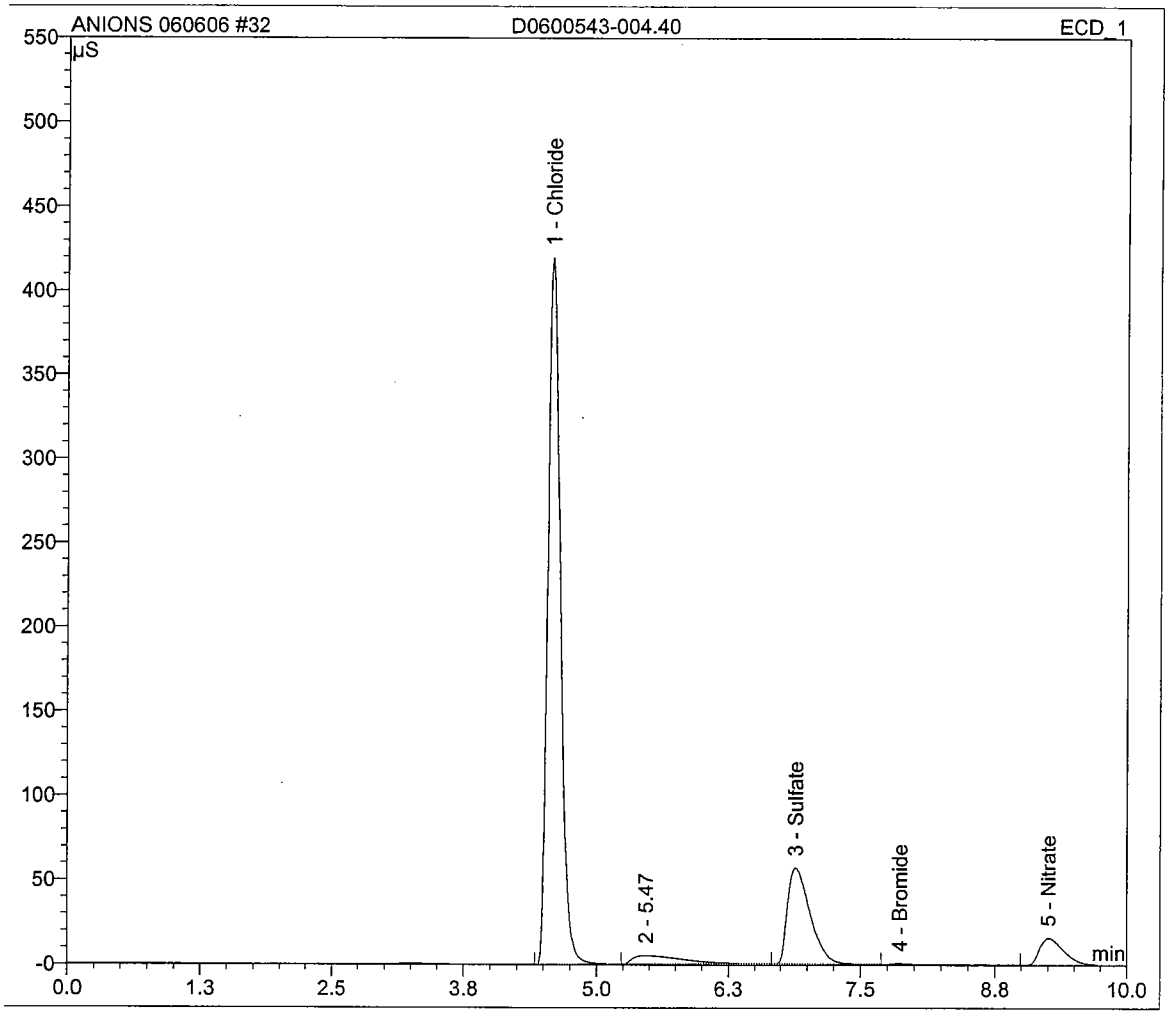
Sample Name:	**D0600543-003.27**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06.06.06 21:33**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.18	Fluoride	BMB	0.091	0.687	0.2055
2	4.59	Chloride	BMb	48.294	359.474	171.9506
4	6.99	Sulfate	bMB	3.575	16.833	17.3406
5	7.88	Bromide	BMB	0.085	0.454	0.9283
		TOTAL:		52.05	377.45	190.43



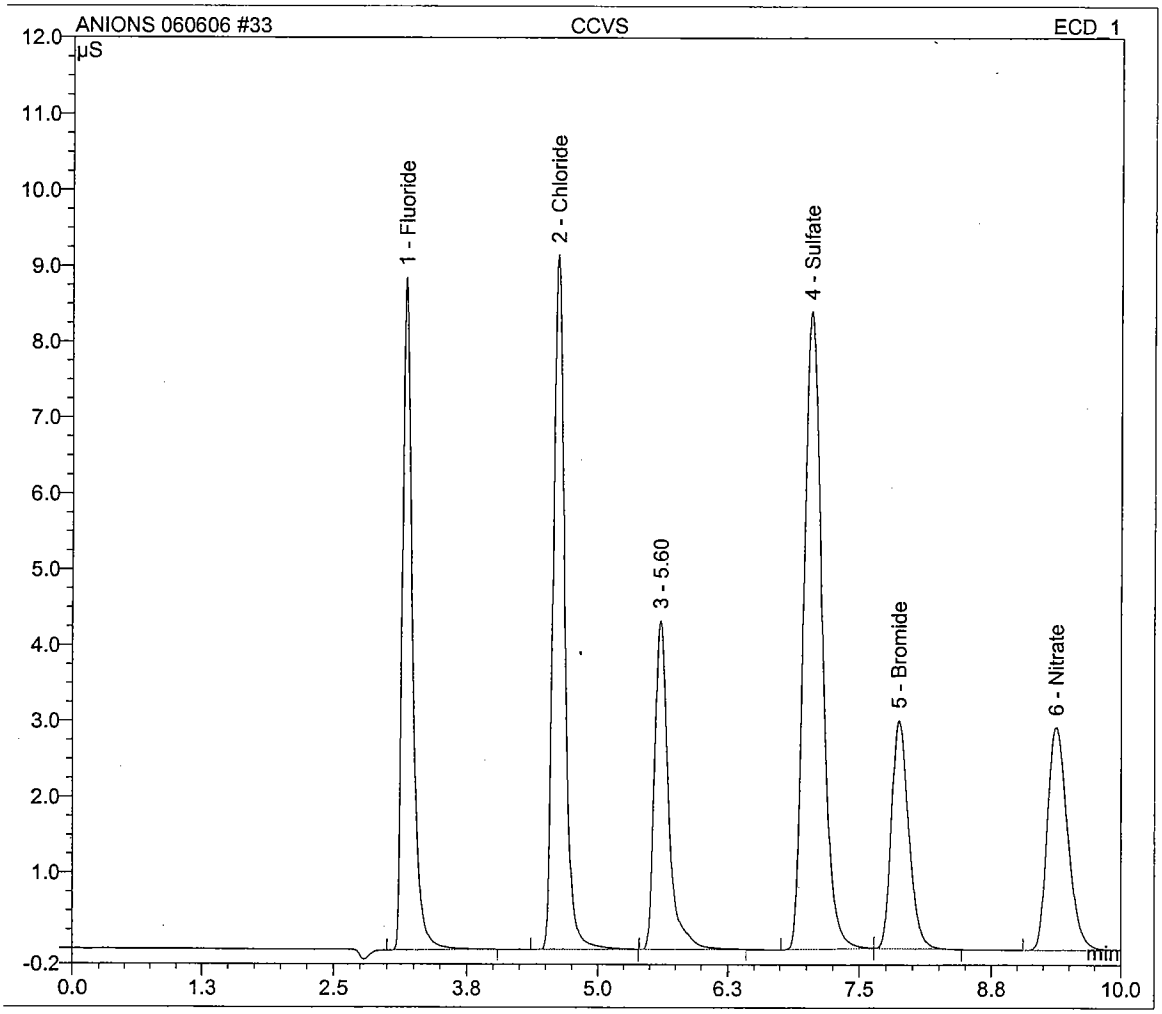
Sample Name:	**D0600543-004.40**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06.06.06 21:48**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	4.58	Chloride	BMB	56.962	419.949	202.8123
3	6.89	Sulfate	bMB	14.048	56.876	67.9785
4	7.87	Bromide	BMB	0.086	0.482	0.9369
5	9.26	Nitrate	BMB	4.212	15.801	5.9980
		TOTAL:		75.31	493.11	277.73



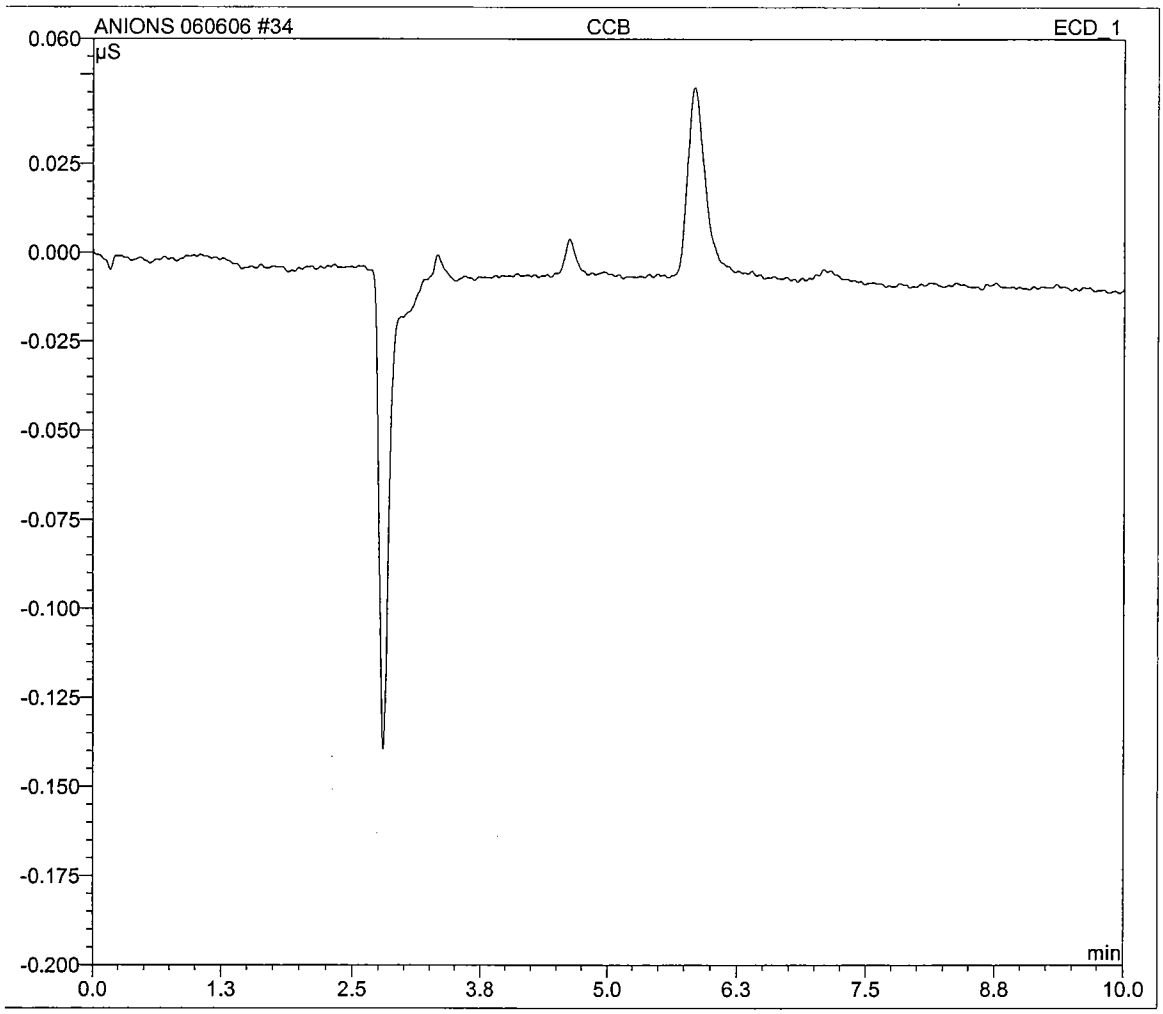
Sample Name:	**CCVS**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06.06.06 22:03**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.18	Fluoride	BMB	0.975	8.863	2.1441
2	4.61	Chloride	BMB	1.169	9.155	4.1535
4	7.04	Sulfate	BMB	1.674	8.408	8.1511
5	7.87	Bromide	BMB	0.563	3.006	4.9205
6	9.38	Nitrate	BMB	0.669	2.939	0.9874
		TOTAL:		5.05	32.37	20.36



Sample Name:	**CCB**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06.06.06 22:17**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
			TOTAL:	0.00	0.00	0.00



Title: Anions Calibration 092205
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060806
Timebase: ICS-2000
#Samples: 42
Created: 6/8/2006 12:04:44 PM by RDDACQUWC8
Last Update: 6/20/2006 8:05:33 AM by RDDACQUWC8

No.	Name	Type	Pos.	Program	Method	Status	Inj. Date/Time
1	Rinse	Unknown	1	Anions_Program	Anions_Method	Finished	6/8/2006 12:14:38 PM
2	CS1	Standard	3	Anions_Program	Anions_Method	Finished	6/8/2006 12:29:15 PM
3	CS2	Standard	3	Anions_Program	Anions_Method	Finished	6/8/2006 12:43:51 PM
4	CS3	Standard	5	Anions_Program	Anions_Method	Finished	6/8/2006 12:58:27 PM
5	CS4	Standard	5	Anions_Program	Anions_Method	Finished	6/8/2006 1:13:03 PM
6	CS5	Standard	7	Anions_Program	Anions_Method	Finished	6/8/2006 1:27:39 PM
7	CS6	Standard	6	Anions_Program	Anions_Method	Finished	6/8/2006 1:42:16 PM
8	CS7	Standard	8	Anions_Program	Anions_Method	Finished	6/8/2006 1:56:52 PM
9	ICV/LCS	Unknown	13	Anions_Program	Anions_Method	Finished	6/8/2006 2:11:29 PM
10	RLS	Unknown	14	Anions_Program	Anions_Method	Finished	6/8/2006 2:26:05 PM
11	ICB	Unknown	14	Anions_Program	Anions_Method	Finished	6/8/2006 2:40:41 PM
12	MB	Unknown	13	Anions_Program	Anions_Method	Finished	6/8/2006 2:55:18 PM
13	LCSD	Unknown	14	Anions_Program	Anions_Method	Finished	6/8/2006 3:09:54 PM
14	D0600635-003.03	Unknown	45	Anions_Program	Anions_Method	Finished	6/8/2006 3:24:31 PM
15	D0600635-003.03MS	Unknown	49	Anions_Program	Anions_Method	Finished	6/8/2006 3:39:07 PM
16	D0600635-003.03MSD	Unknown	46	Anions_Program	Anions_Method	Finished	6/8/2006 3:53:44 PM
17	D0600635-004.03	Unknown	47	Anions_Program	Anions_Method	Finished	6/8/2006 4:08:20 PM
18	D0600635-005.03	Unknown	49	Anions_Program	Anions_Method	Finished	6/8/2006 4:22:57 PM
19	CCVS	Unknown	50	Anions_Program	Anions_Method	Finished	6/8/2006 4:37:33 PM
20	CCB	Unknown	51	Anions_Program	Anions_Method	Finished	6/8/2006 4:52:10 PM
21	D0600632-001.01	Unknown	50	Anions_Program	Anions_Method	Finished	6/8/2006 5:06:46 PM
22	D0600632-002.01	Unknown	51	Anions_Program	Anions_Method	Finished	6/8/2006 5:21:23 PM
23	D0600543-001.43	Unknown	51	Anions_Program	Anions_Method	Finished	6/8/2006 5:35:58 PM
24	D0600543-001.43MS	Unknown	52	Anions_Program	Anions_Method	Finished	6/8/2006 5:50:35 PM
25	D0600543-001.43MSD	Unknown	53	Anions_Program	Anions_Method	Finished	6/8/2006 6:05:11 PM
26	D0600543-002-16	Unknown	52	Anions_Program	Anions_Method	Finished	6/8/2006 6:19:47 PM
27	D0600543-004.40	Unknown	54	Anions_Program	Anions_Method	Finished	6/8/2006 6:34:23 PM
28	CCVS	Unknown	55	Anions_Program	Anions_Method	Finished	6/8/2006 6:49:00 PM
29	CCB	Unknown	56	Anions_Program	Anions_Method	Finished	6/8/2006 7:03:36 PM
30	D0600547-001.05	Unknown	57	Anions_Program	Anions_Method	Finished	6/8/2006 7:18:13 PM
31	D0600548-001.05	Unknown	56	Anions_Program	Anions_Method	Finished	6/8/2006 7:32:49 PM
32	D0600548-001.05MS	Unknown	57	Anions_Program	Anions_Method	Finished	6/8/2006 7:47:27 PM
33	D0600548-001.05MSD	Unknown	58	Anions_Program	Anions_Method	Finished	6/8/2006 8:02:04 PM
34	D0600548-002.05	Unknown	59	Anions_Program	Anions_Method	Finished	6/8/2006 8:16:40 PM
35	D0600548-005.05	Unknown	60	Anions_Program	Anions_Method	Finished	6/8/2006 8:31:17 PM
36	D0600548-006.05	Unknown	59	Anions_Program	Anions_Method	Finished	6/8/2006 8:45:53 PM
37	D0600539-001.10	Unknown	60	Anions_Program	Anions_Method	Finished	6/8/2006 9:00:30 PM
38	D0600670-006.01	Unknown	61	Anions_Program	Anions_Method	Finished	6/8/2006 9:15:06 PM
39	CCVS	Unknown	57	Anions_Program	Anions_Method	Finished	6/8/2006 9:29:42 PM
40	CCB	Unknown	45	Anions_Program	Anions_Method	Finished	6/8/2006 9:44:19 PM
41	RINSE	Unknown	46	Anions_Program	Anions_Method	Finished	6/8/2006 9:58:55 PM
42	END	Unknown	14	Pump Shutdown	Anions_Method	Finished	6/8/2006 10:13:32 PM

Chromeleon © Dionex Corporation, Version 6.50 SP2 Build 968

Title: Anions Calibration 092205
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060806
Timebase: ICS-2000
#Samples: 42
Created: 6/8/2006 12:04:44 PM by RDDACQUWC8
Last Update: 6/20/2006 8:05:33 AM by RDDACQUWC8

No.	Dil. Factor
1	1.0000
2	1.0000
3	1.0000
4	1.0000
5	1.0000
6	1.0000
7	1.0000
8	1.0000
9	1.0000
10	1.0000
11	1.0000
12	1.0000
13	1.0000
14	1.0000
15	1.1000
16	1.1000
17	1.0000
18	1.0000
19	1.0000
20	1.0000
21	1.0000
22	1.0000
23	20.0000
24	20.0000
25	20.0000
26	100.0000
27	10.0000
28	1.0000
29	1.0000
30	10.0000
31	5.0000
32	5.0000
33	5.0000
34	5.0000
35	10.0000
36	10.0000
37	5.0000
38	1.0000
39	1.0000
40	1.0000
41	1.0000
42	1.0000

Chromeleon © Dionex Corporation, Version 6.50 SP2 Build 968

Title: Anions_Program
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060806\ANIONS 06080 Created: 8/18/2005 5:57:57 PM by RDDACQUWC6
Timebase: ICS-2000 Changed: 9/22/2005 11:59:56 AM by RDDACQUWC6

```
;Anions Program / EPA 300.0, 300.1 / Bob Coleman 8-18-2005

        Pressure.LowerLimit =          200
        Pressure.UpperLimit =          3000
        %A.Equate =                    "Water"
        CR_TC =                        On
        LoadPosition
        Data_Collection_Rate =         5.0
        CellTemperature =              30.0
        ColumnTemperature =            30.0
        Suppressor_Type =              ASRS_4mm
        ; Hydroxide =                  30.0
        ; Recommended Current =        75
        Suppressor_Current =           75
        Concentration =                30.00
        Curve =                        5
        Flow =                         1.00

-2.500  Pump_ECD_Relay_1.Closed        Duration=6

 0.000  Pump_ECD.Autozero
        ECD_1.AcqOn
        Pump_InjectValve.InjectPosition          Duration=600
5.000   Log                            Pump_ECD_Relay_1.State
        Pump_ECD_Relay_1.Open          ;make sure relay is open
12.000  ECD_1.AcqOff
        End
```

Title: Anions_Program
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060806\ANIONS 060806A.SEQ
Created: 8/18/2005 5:57:57 PM by RDDACQUWC6
Timebase: ICS-2000
Changed: 9/22/2005 11:59:56 AM by RDDACQUWC6

No. Channel Operation Parameters

Title: End of Run
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060806\ANIONS 06(Created: 6/21/2005 11:20:54 AM by reddingadmin
Timebase: ICS-2000 Changed: 7/7/2005 3:33:24 PM by reddingadmin

```
;End program for shutting down the ICS-2000 pumps / BLC,. 6-22-2005

        Pressure.LowerLimit =          200
        Pressure.UpperLimit =          3000
        %A.Equate =                    "Water"
        CR_TC =                        On
        LoadPosition
        Data_Collection_Rate =         5.0
        CellTemperature =              30.0
        ColumnTemperature =            30.0
        Suppressor_Type =              ASRS_4mm
        ; Carbonate =                  0.0
        ; Bicarbonate =                0.0
        ; Hydroxide =                  65.0
        ; Tetraborate =                0.0
        ; Other eluent =               0.0
        ; Recommended Current =        193
        Suppressor_Current =           200
        ECD_Total.Step =               0.50
        ECD_Total.Average =            Off
        Channel_Pressure.Step =        0.50
        Channel_Pressure.Average =     Off
        Concentration =                65.00
        Curve =                        5
        Flow =                         1.20

-0.100  Pump_ECD_Relay_1.Closed        Duration=1

 0.000  Pump_ECD.Autozero
        ECD_1.AcqOn
        ECD_Total.AcqOn
        Channel_Pressure.AcqOn
        Pump_InjectValve.InjectPosition          Duration=0.1
        Pump_ECD_Relay_1.Open          ;make sure relay is open
0.1000  ECD_1.AcqOff
        ECD_Total.AcqOff
        Channel_Pressure.AcqOff
        Suppressor_Current =           0
        Off
        End
```

Title: End of Run
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060806\ANIONS 060806A.SEQ
Timebase: ICS-2000

Created: 6/21/2005 11:20:54 AM by reddingadmin
Changed: 7/7/2005 3:33:24 PM by reddingadmin

No. Channel Operation Parameters

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060806\ANIONS 060806A.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Minimum Area	0.025 "[Signal]*min"	All Channels
2	0.000	Inhibit Integration	On	All Channels
3	1.000	Void Volume Treatment	On	All Channels
4	2.800	Inhibit Integration	On	All Channels
5	2.800	Void Volume Treatment	Off	All Channels
6	3.000	Inhibit Integration	Off	All Channels
7	3.000	Inhibit Integration	Off	All Channels

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060806\ANIONS 060806A.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

Peak Table:

Use Recently Detected Ret. Times: Average of last 4 standards
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Resp.Fact.	Comment
1	Fluoride	3.147 min	5.000 RG	External	Area	0LOff	B-M-B		1.000000	Autogenerated
2	Chloride	4.600 min	5.000 RG	External	Area	0LOff	B-M-B		1.000000	Autogenerated
3	Sulfate	7.083 min	5.000 RG	External	Area	0LOff	B-M-B		1.000000	Autogenerated
4	Bromide	7.953 min	5.000 RG	External	Area	0LOff	B-M-B		1.000000	Autogenerated
5	Nitrate	9.517 min	5.000 RG	External	Area	0LOff	B-M-B		1.000000	Autogenerated

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060806\ANIONS 060806A.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

Peak Table:

Use Recently Detected Ret. Times: Average of last 4 standards
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Amount CS1	Amount CS2	Amount CS3	Amount CS4	Amount CS5	Amount CS6	Amount CS7	Amount CS8	Amount CS9
1	Fluoride	3.147 min	0.000000	0.200000	1.000000	2.000000	6.000000	10.000000			
2	Chloride	4.600 min	0.000000	0.400000	2.000000	4.000000	12.000000	20.000000	40.000000		
3	Sulfate	7.083 min	0.000000	0.800000	4.000000	8.000000	24.000000	40.000000	80.000000		
4	Bromide	7.953 min	0.000000	0.500000	2.500000	5.000000	15.000000	25.000000	50.000000		
5	Nitrate	9.517 min	0.000000	0.100000	0.500000	1.000000	3.000000	5.000000	10.000000		

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060806\ANIONS 060806A.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

Amount Table:

Dimension of Amounts: mg/L
Reference Volume for Amounts: Use inject volume of first standard

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Left Limit	Right Limit	Group
1	Fluoride	3.147 min	5.000 RG	External	Area	0LOff	B-M-B	0.000	0.000	
2	Chloride	4.600 min	5.000 RG	External	Area	0LOff	B-M-B	0.000	0.000	
3	Sulfate	7.083 min	5.000 RG	External	Area	0LOff	B-M-B	0.000	0.000	
4	Bromide	7.953 min	5.000 RG	External	Area	0LOff	B-M-B	0.000	0.000	
5	Nitrate	9.517 min	5.000 RG	External	Area	0LOff	B-M-B	0.000	0.000	

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060806\ANIONS 060806A.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

Amount Table:

Dimension of Amounts: mg/L
Reference Volume for Amounts: Use inject volume of first standard

No.	Peak Name	Ret.Time	Resp.Fact.	Comment
1	Fluoride	3.147 min	1.000000	Autogenerated
2	Chloride	4.600 min	1.000000	Autogenerated
3	Sulfate	7.083 min	1.000000	Autogenerated
4	Bromide	7.953 min	1.000000	Autogenerated
5	Nitrate	9.517 min	1.000000	Autogenerated

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060806\ANIONS 060806A.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time	Sample Comment
1	☒	CS1	2	3	25.0	1.0000	1.0000	1.0000	6/8/2006 12:29:15 PM	
2	☒	CS2	3	3	25.0	1.0000	1.0000	1.0000	6/8/2006 12:43:51 PM	
3	☒	CS3	4	5	25.0	1.0000	1.0000	1.0000	6/8/2006 12:58:27 PM	
4	☒	CS4	5	5	25.0	1.0000	1.0000	1.0000	6/8/2006 1:13:03 PM	
5	☒	CS5	6	7	25.0	1.0000	1.0000	1.0000	6/8/2006 1:27:39 PM	
6	☒	CS6	7	6	25.0	1.0000	1.0000	1.0000	6/8/2006 1:42:16 PM	
7	☒	CS7	8	8	25.0	1.0000	1.0000	1.0000	6/8/2006 1:56:52 PM	

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060806\ANIONS 060806A.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Calib. Comment
1	☒	CS1	Couldn't find the peak in the chromatogram.
2	☒	CS2	Ok
3	☒	CS3	Ok
4	☒	CS4	Ok
5	☒	CS5	Ok
6	☒	CS6	Ok
7	☒	CS7	The amount column does not contain a valid value for this peak.

Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060806\ANIONS 060806A.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

System Suitability Test:

No.	Name	Sample Condition	Test Condition	Aggregate	Operator	Value	Channel	Peak	N.A.
1									

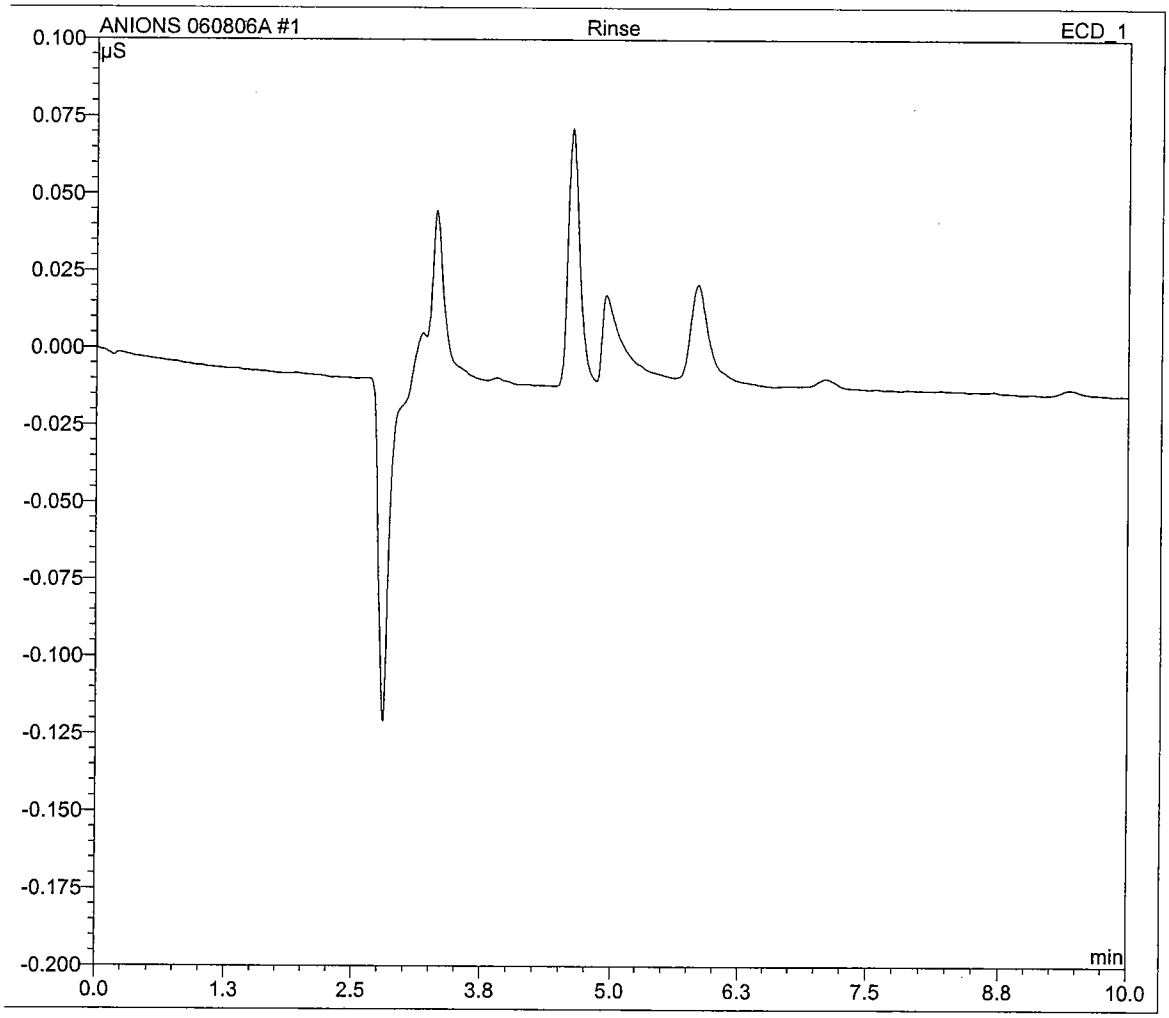
Title: Anions AS19 / EPA 300.0, 300.1 Method
Datasource: RDD-ACQU-WC-6_local
Location: ICS-2000\Anions\ANIONS 060806\ANIONS 060806A.SEQ
Created: 8/9/2005 4:45:31 PM by RDDACQUWC6
Last Update: 4/13/2006 9:10:38 AM by RDDACQUWC8

System Suitability Test:

No.	Name	Fail-Action	Result	SST Message
1				

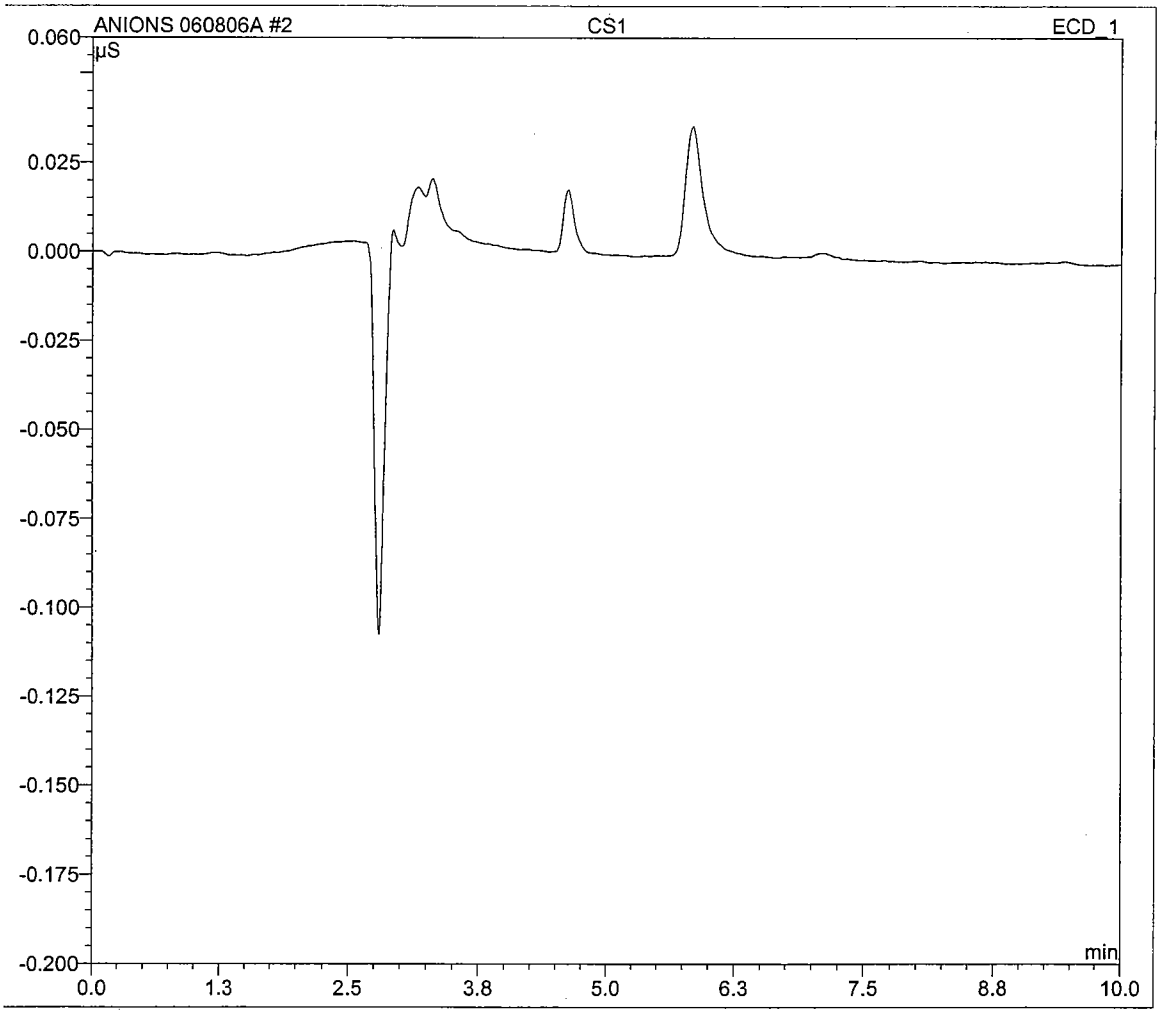
Sample Name:	**Rinse**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 12:14**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
			TOTAL:	0.00	0.00	0.00



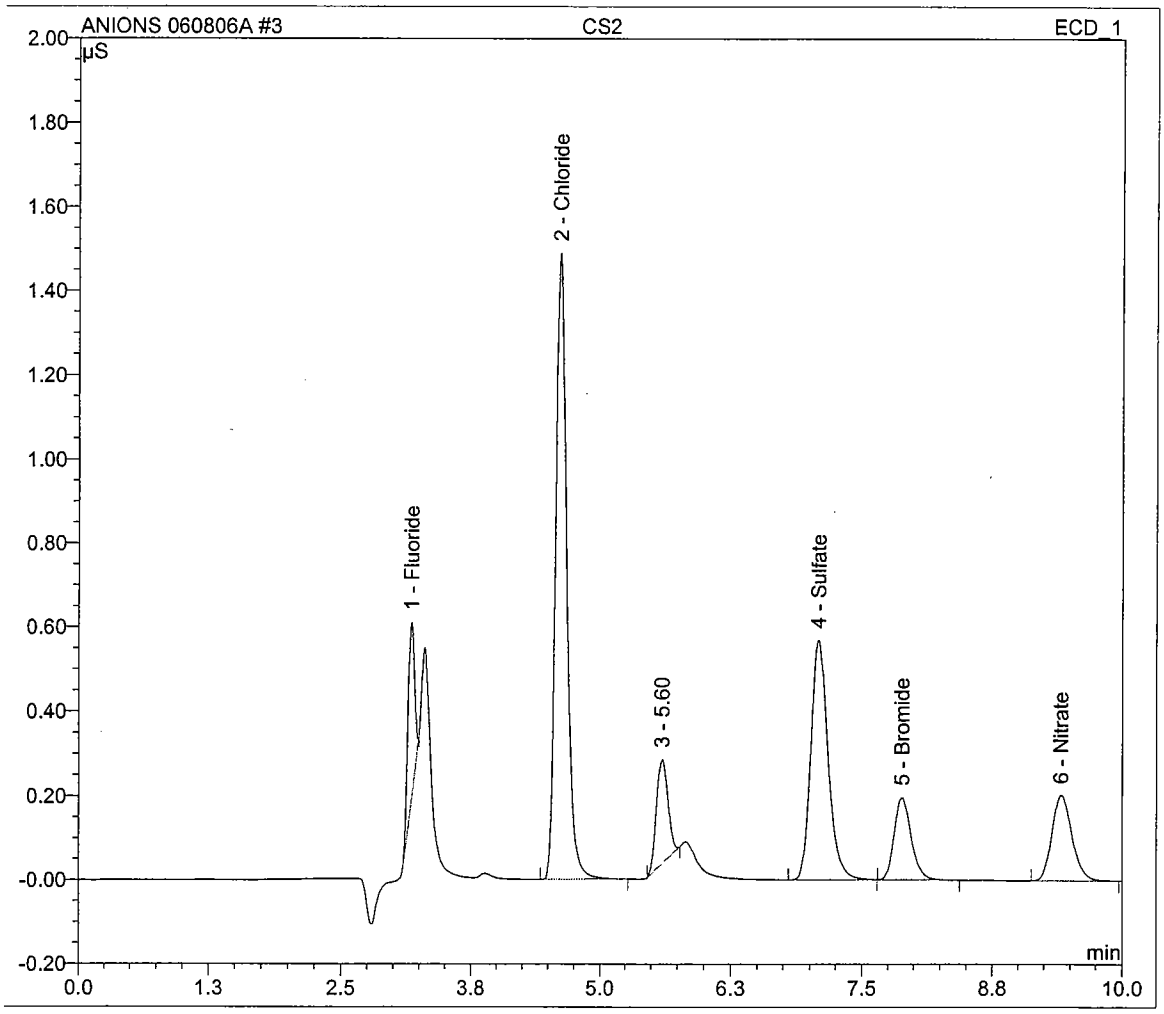
Sample Name:	**CS1**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 12:29**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
			TOTAL:	0.00	0.00	0.00



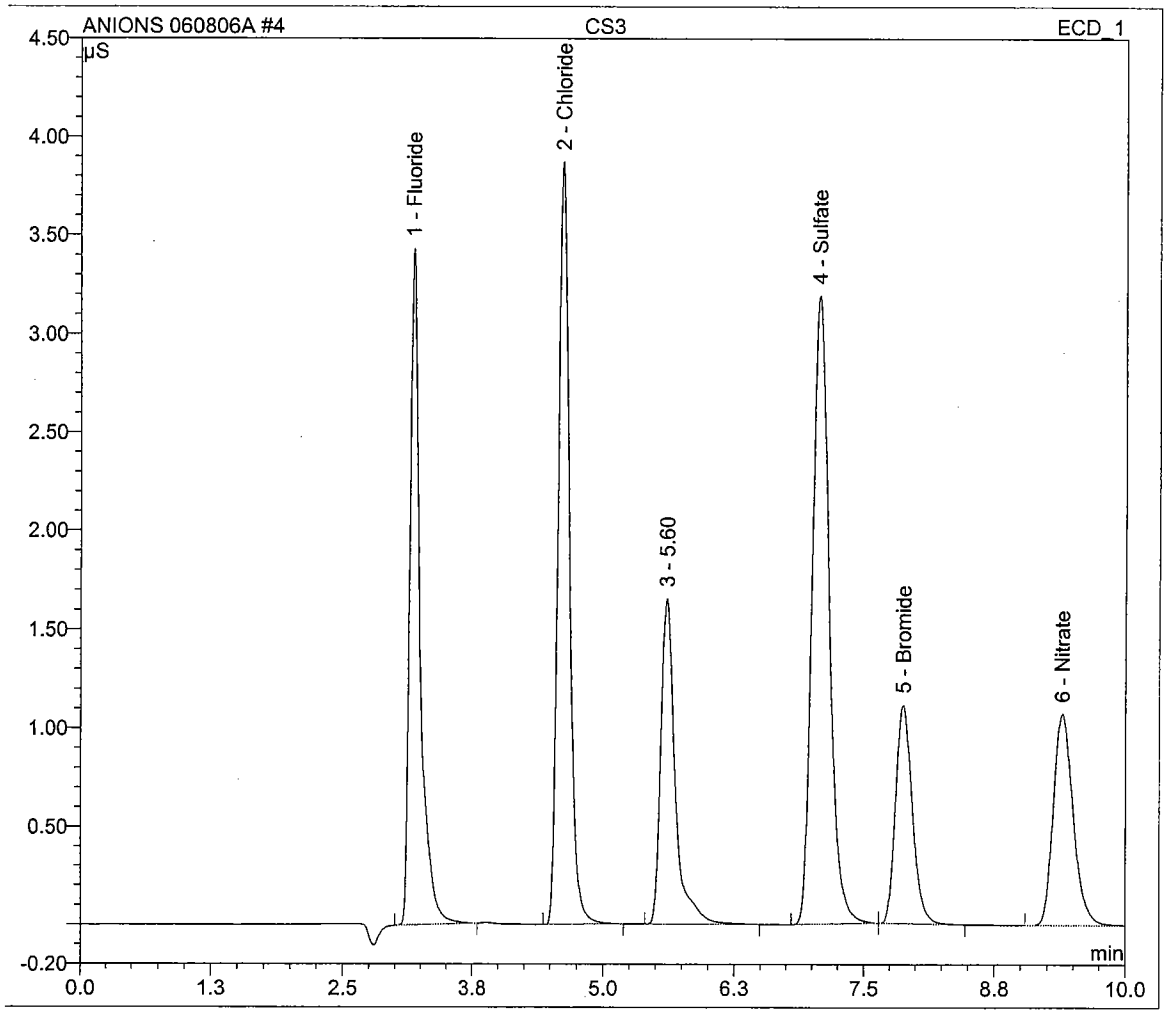
Sample Name:	**CS2**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 12:43**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.17	Fluoride	BMB	0.030	0.418	0.0822
2	4.61	Chloride	BMB	0.186	1.489	0.8051
4	7.08	Sulfate	BMB	0.111	0.569	1.1030
5	7.89	Bromide	BMB	0.038	0.196	0.8436
6	9.41	Nitrate	BMB	0.046	0.204	0.1682
			TOTAL:	0.41	2.88	3.00



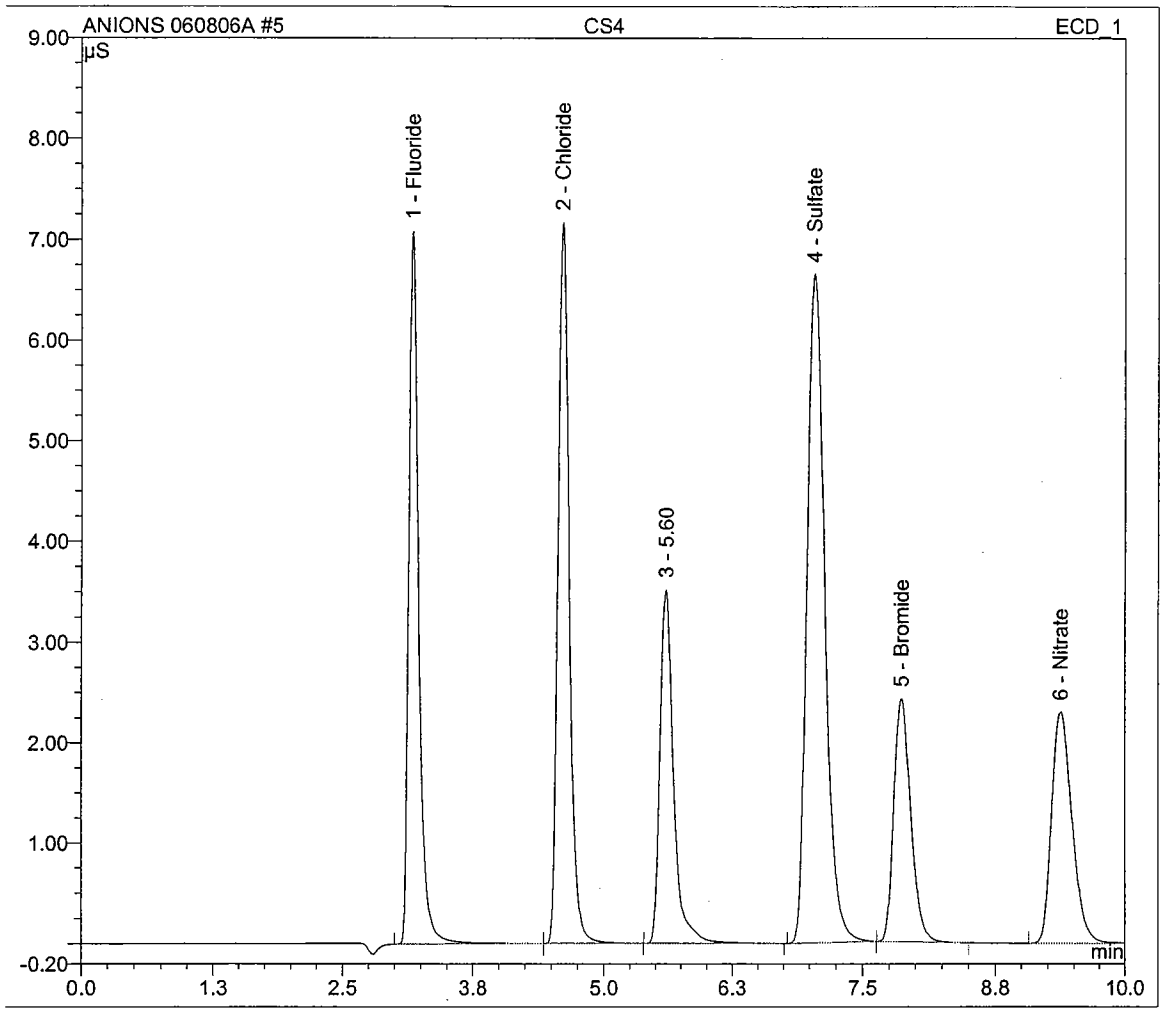
Sample Name:	**CS3**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 12:58**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.17	Fluoride	BMB	0.401	3.431	1.0571
2	4.61	Chloride	BMB	0.481	3.870	2.0373
4	7.07	Sulfate	BMB	0.616	3.189	3.9555
5	7.88	Bromide	BMB	0.208	1.112	2.4771
6	9.40	Nitrate	BMB	0.241	1.076	0.4976
		TOTAL:		1.95	12.68	10.02



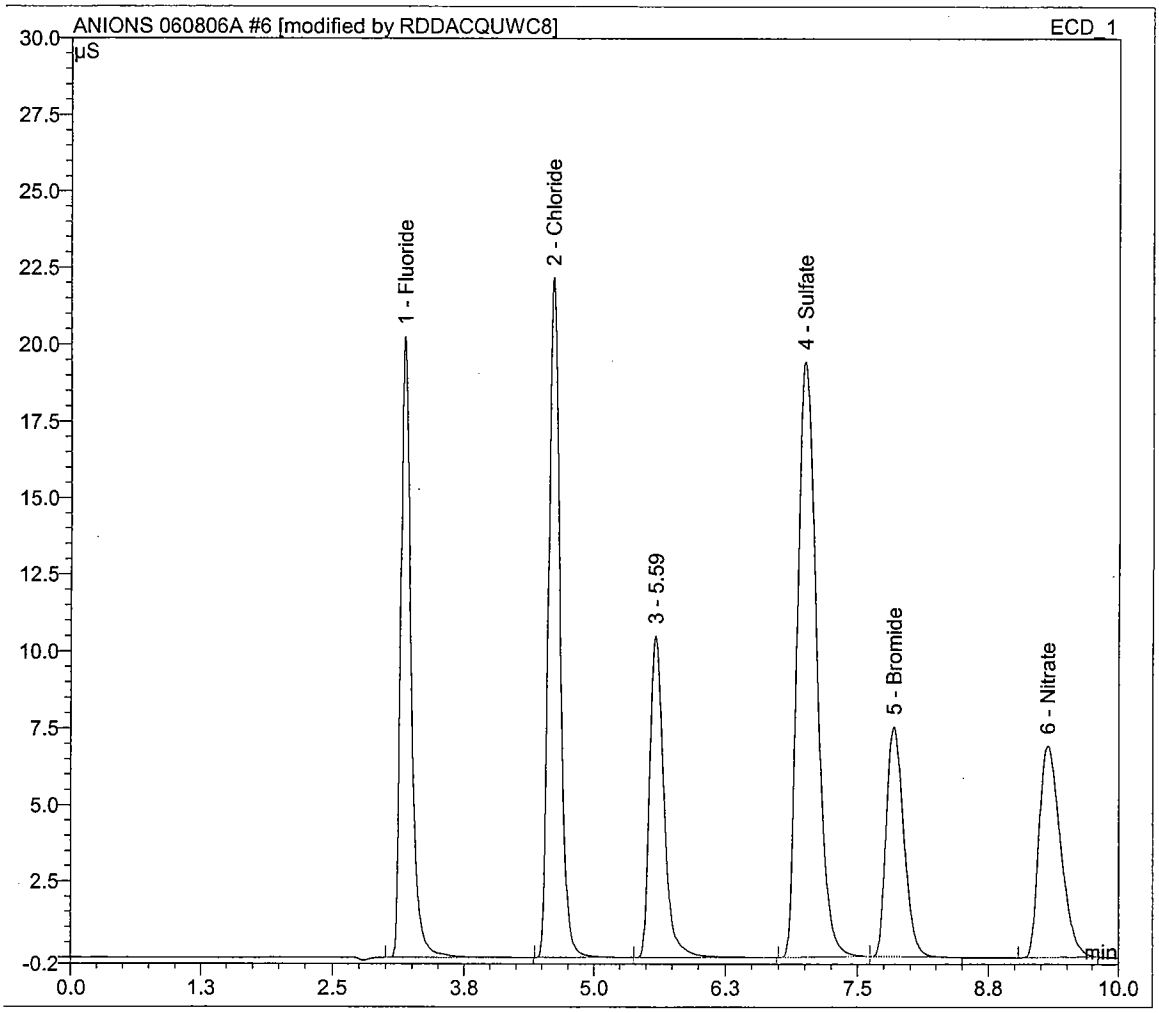
Sample Name:	**CS4**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 13:13**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.17	Fluoride	BMB	0.774	7.082	2.0402
2	4.61	Chloride	BMB	0.896	7.166	3.7722
4	7.05	Sulfate	BMB	1.309	6.647	7.8734
5	7.87	Bromide	BMB	0.451	2.417	4.8142
6	9.37	Nitrate	BMB	0.521	2.302	0.9686
			TOTAL:	3.95	25.61	19.47



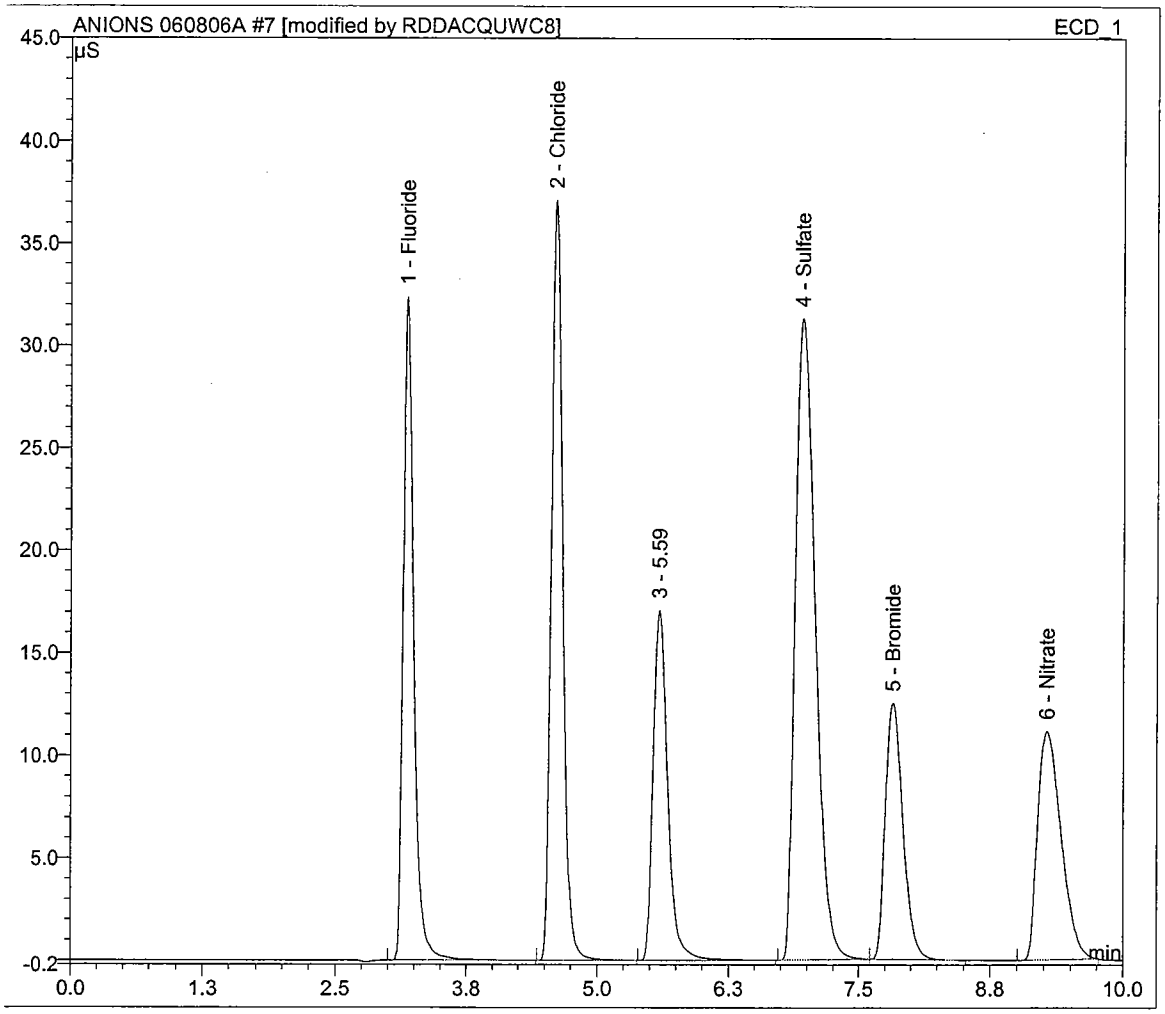
Sample Name:	**CS5**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 13:27**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.18	Fluoride	BMB	2.307	20.247	6.0728
2	4.61	Chloride	BMB	2.811	22.174	11.7777
4	7.00	Sulfate	BMb	4.068	19.435	23.4708
5	7.85	Bromide	bMB	1.454	7.512	14.4444
6	9.32	Nitrate	BMB*	1.660	6.915	2.8916
		TOTAL:		12.30	76.28	58.66



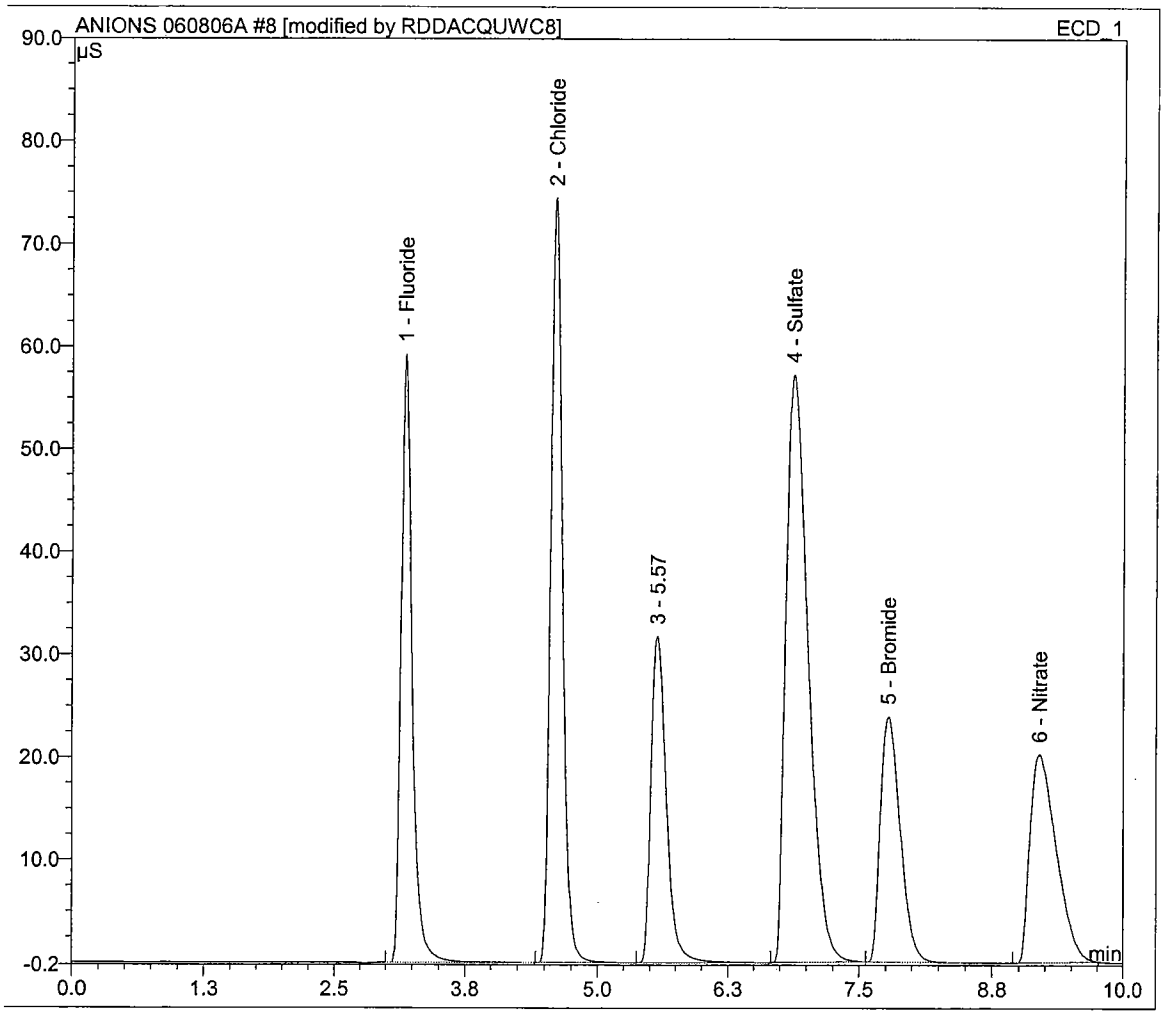
Sample Name:	**CS6**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 13:42**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.18	Fluoride	BMB	3.778	32.378	9.9449
2	4.61	Chloride	BMB	4.728	37.097	19.7939
4	6.96	Sulfate	BMb	6.905	31.301	39.5037
5	7.82	Bromide	bMB	2.502	12.484	24.5101
6	9.28	Nitrate	BMB*	2.849	11.147	4.8978
		TOTAL:		20.76	124.41	98.65



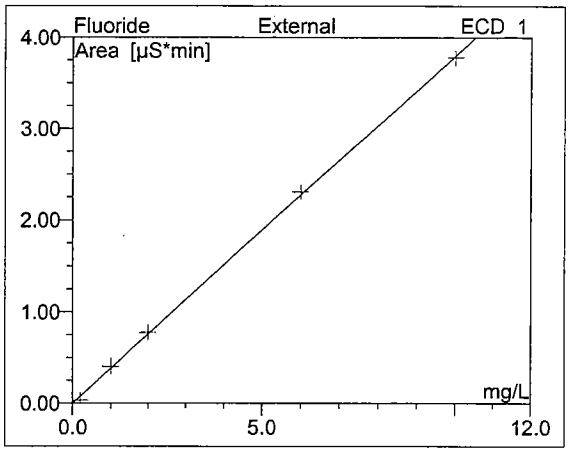
Sample Name:	**CS7**	*Inj. Vol.:*	**25.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 13:56**	*Run Time:*	**12.00**

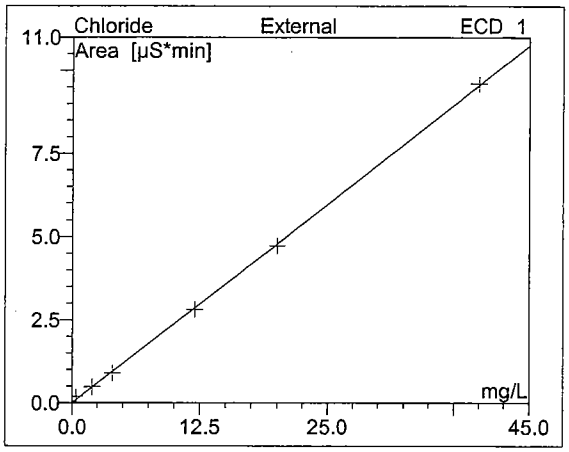
No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.18	Fluoride	BMB	7.252	59.270	19.0844
2	4.60	Chloride	BMB	9.607	74.482	40.1866
4	6.87	Sulfate	BMb	14.144	57.305	80.4187
5	7.77	Bromide	bMB	5.200	23.921	50.4279
6	9.20	Nitrate	BMB*	5.924	20.336	10.0862
		TOTAL:		42.13	235.31	200.20

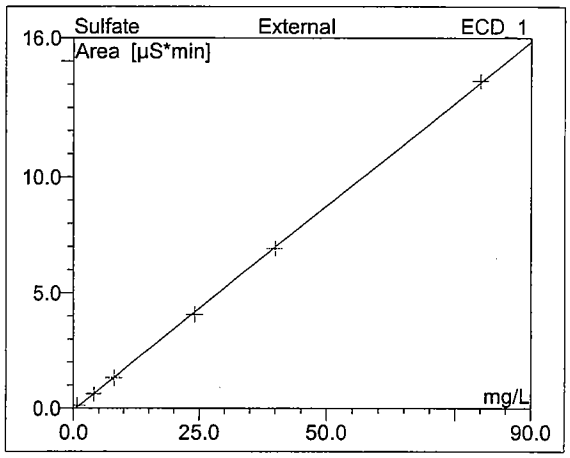


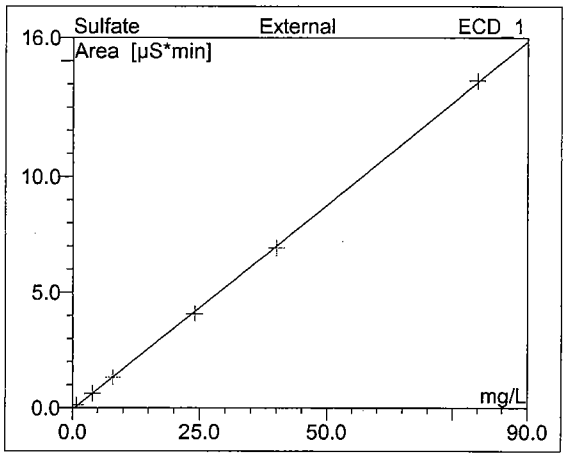
Calibration Batch Report

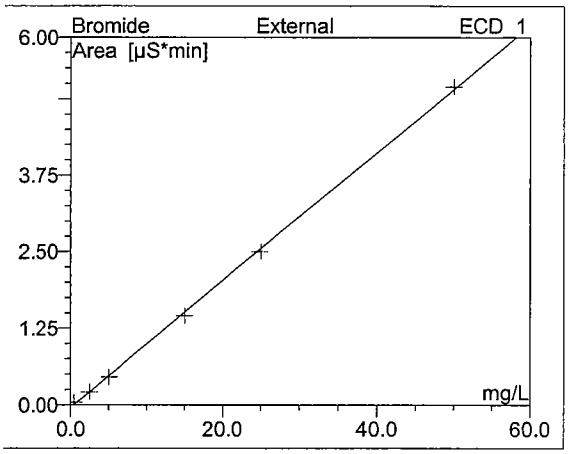
Sequence:	**ANIONS 060806A**	Inj. Vol.:	**25.0**
Program:	**Anions_Program**	Operator:	**RDD-ACQU-WC-8**
Inj. Date/Time:	**06/08/06 13:56**	Run Time:	**12.00**

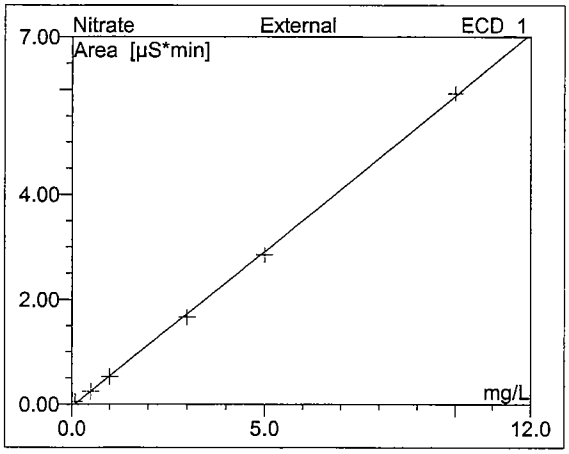












Sequence:	**ANIONS 060806A**	*Inj. Vol.:*	**25.0**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**06/08/06 13:56**	*Run Time:*	**12.00**

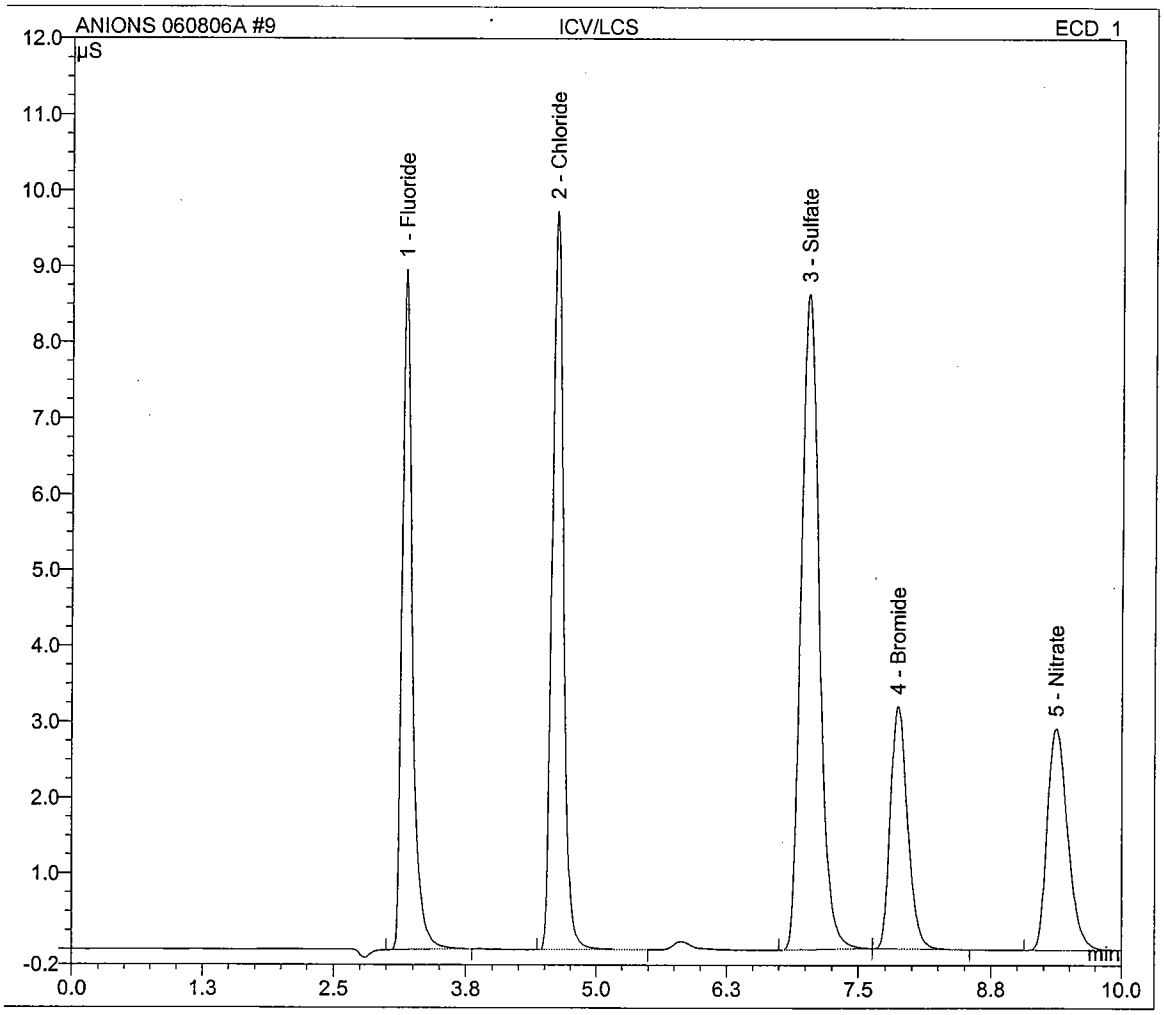
No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	2.96	Fluoride	0LOff	5	0.005	0.465	0.000	99.999
2	4.01	Chloride	0LOff	8	-0.061	0.290	0.000	99.991
3	4.72	Nitrite	0LOff	7	0.008	0.665	0.000	99.992
4	5.48	Sulfate	0LOff	8	-0.082	0.218	0.000	99.995
5	6.43	Bromide	0LOff	7	-0.026	0.125	0.000	99.954
6	7.35	Nitrate	0LOff	6	-0.041	0.713	0.000	99.978
AVERAGE:					-0.0329	0.4126	0.0000	99.9846

No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	3.18	Fluoride	0LOff	5	-0.001059	0.380026	0	99.97990308
2	4.6	Chloride	0LOff	6	-0.006483	0.23921	0	99.98492603
4	6.873333333	Sulfate	0LOff	6	-0.083995	0.176919	0	99.9919279
5	7.773333333	Bromide	0LOff	6	-0.050253	0.10412	0	99.97743173
6	9.196666667	Nitrate	0LOff	6	-0.053344	0.592583	0	99.97724985

0.0
-4.00

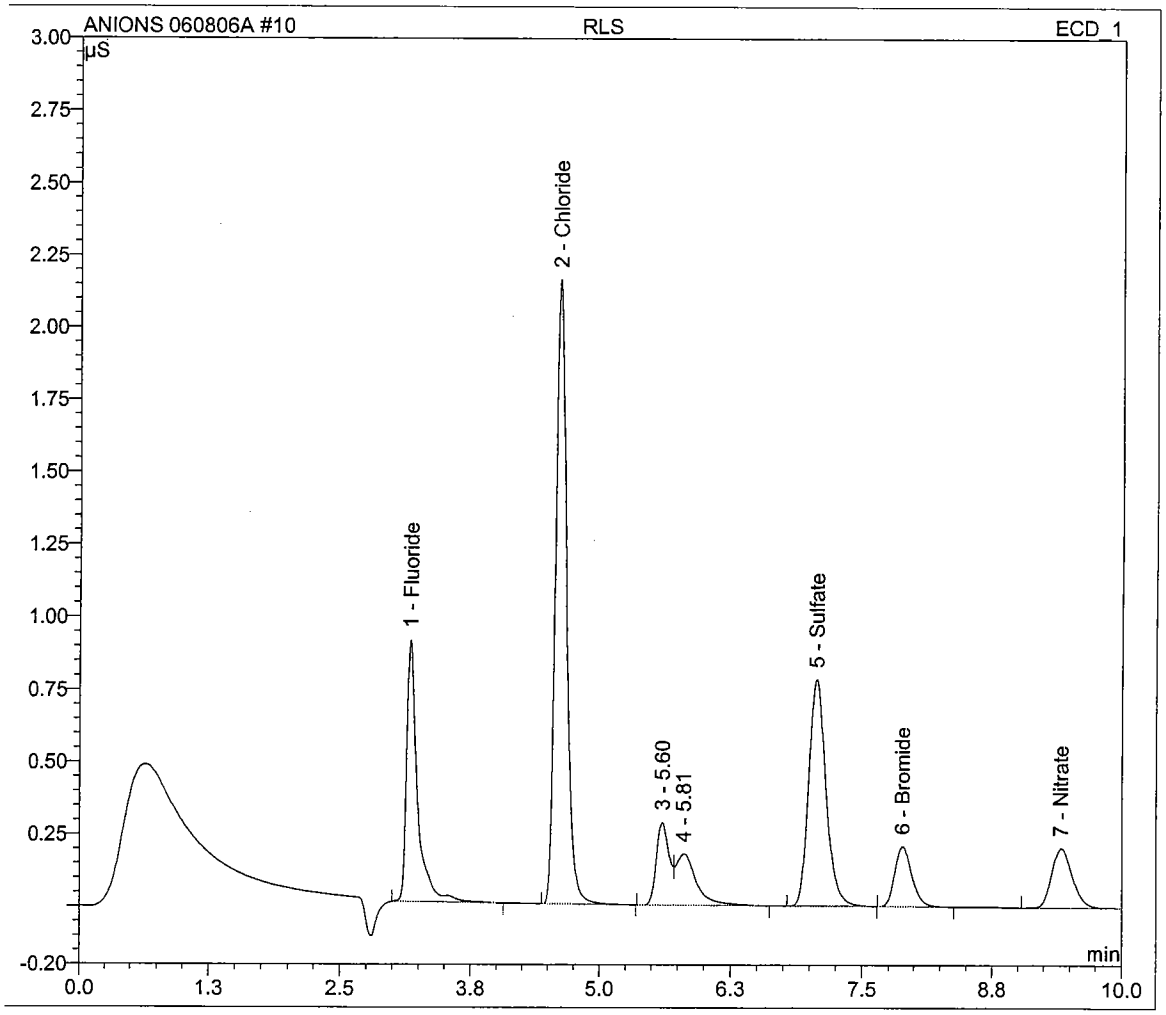
Sample Name:	**ICV/LCS**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 14:11**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L	%R
1	3.17	Fluoride	BMB	1.006	8.959	2.6500	106
2	4.61	Chloride	BMB	1.221	9.732	5.1312	103
3	7.02	Sulfate	BMB	1.710	8.633	10.1397	101
4	7.87	Bromide	BMB	0.602	3.202	6.2615	100
5	9.37	Nitrate	BMB	0.667	2.924	1.2164	97
			TOTAL:	5.21	33.45	25.40	



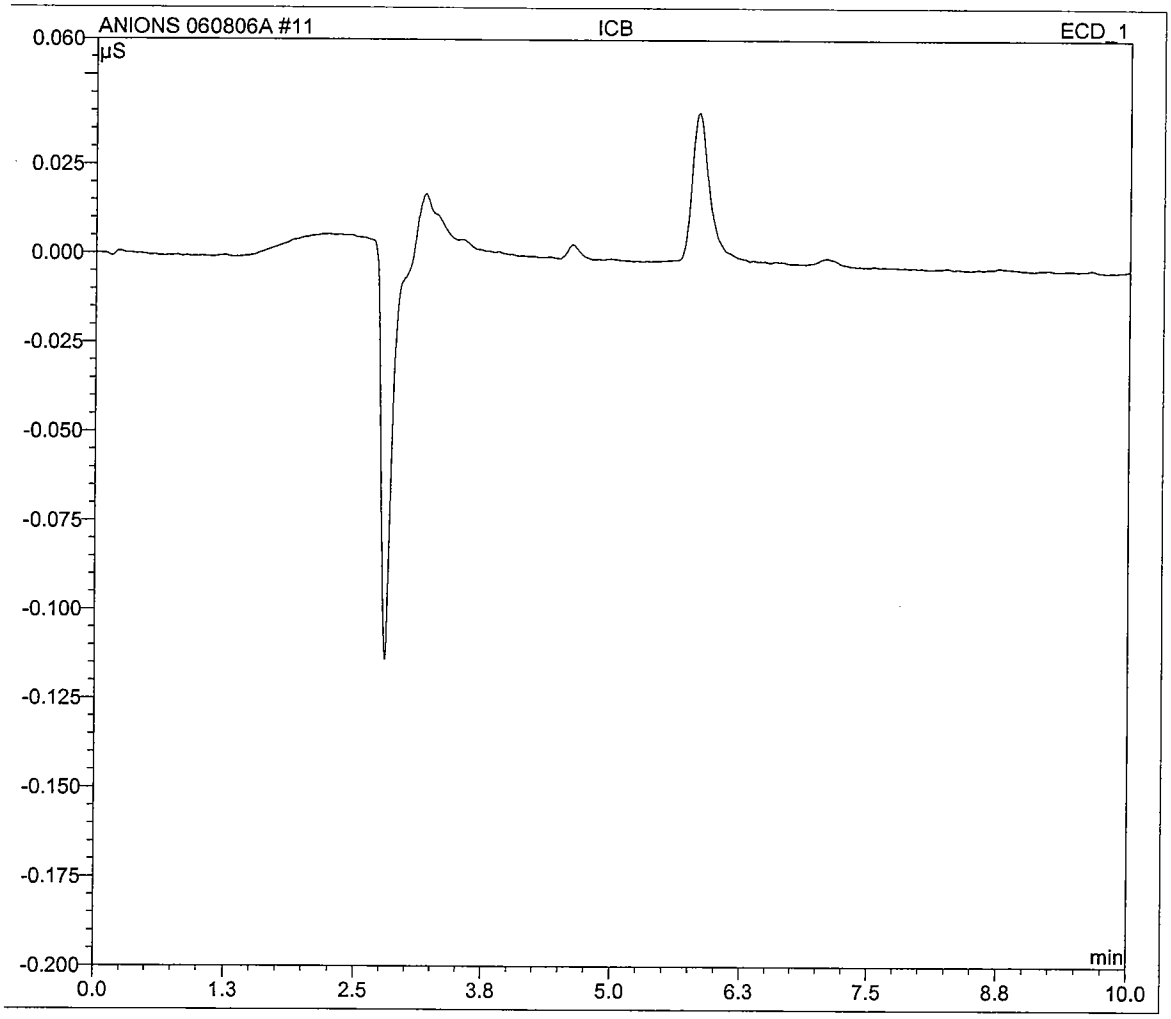
Sample Name:	**RLS**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 14:26**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L	%R
1	3.17	Fluoride	BMB	0.110	0.904	0.2931	117
2	4.61	Chloride	BMB	0.268	2.157	1.1494	115
5	7.06	Sulfate	BMB	0.151	0.783	1.3296	133
6	7.89	Bromide	BMB	0.040	0.210	0.8694	174
7	9.42	Nitrate	BMB	0.048	0.207	0.1705	171
			TOTAL:	0.62	4.26	3.81	



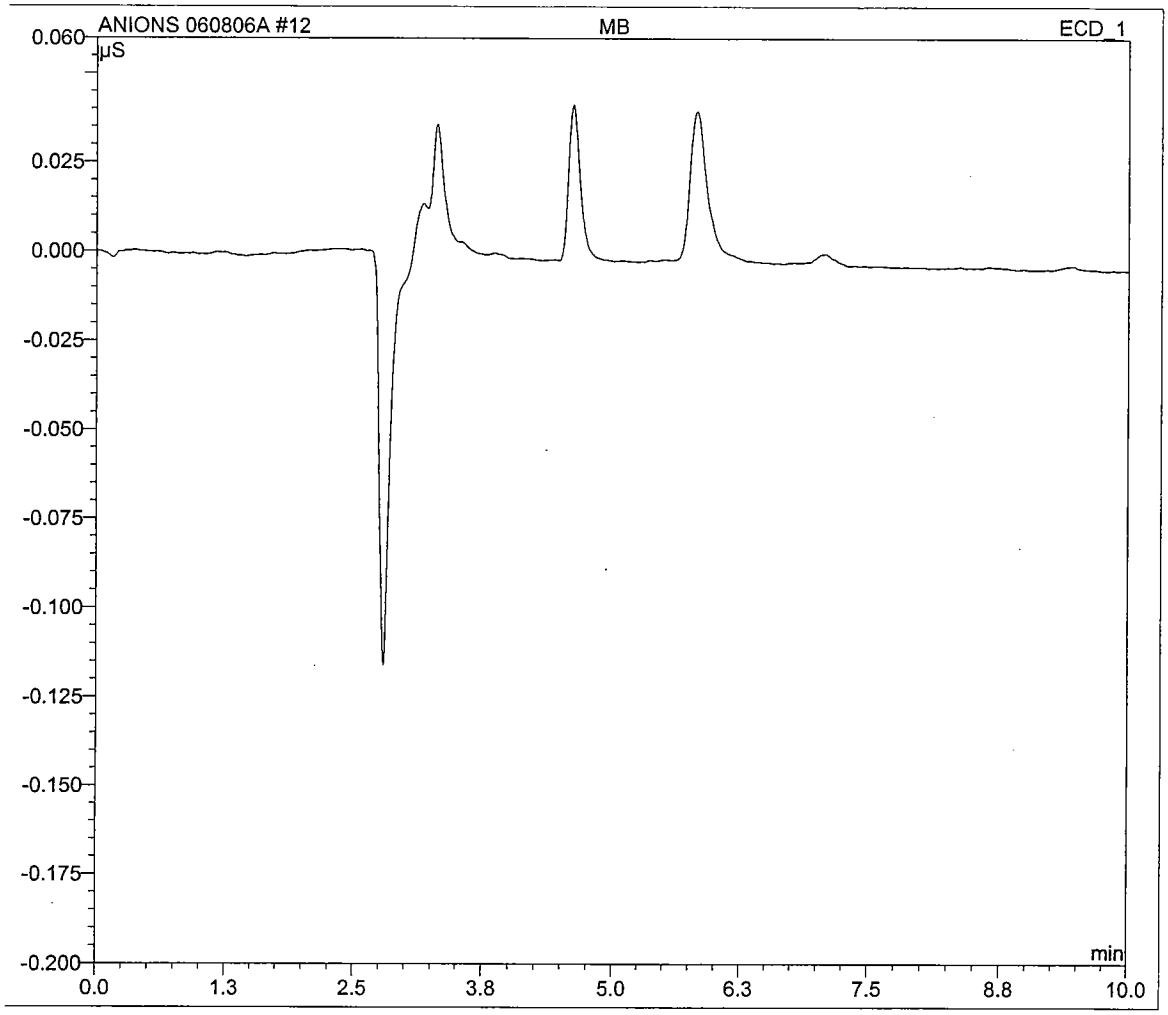
Sample Name:	**ICB**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 14:40**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
		TOTAL:		0.00	0.00	0.00



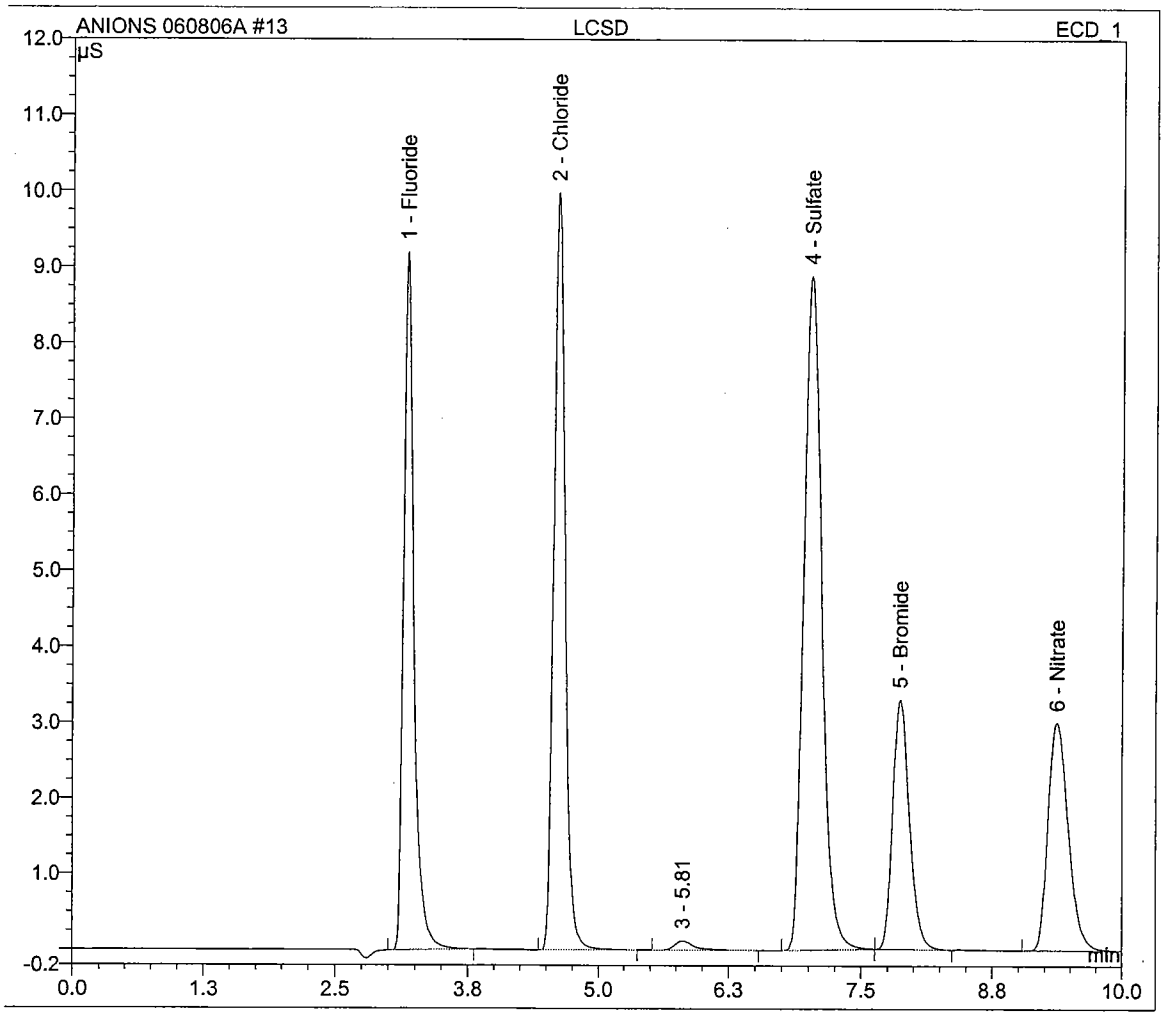
Sample Name:	**MB**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 14:55**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
			TOTAL:	0.00	0.00	0.00



Sample Name:	**LCSD**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 15:09**	*Run Time:*	**12.00**

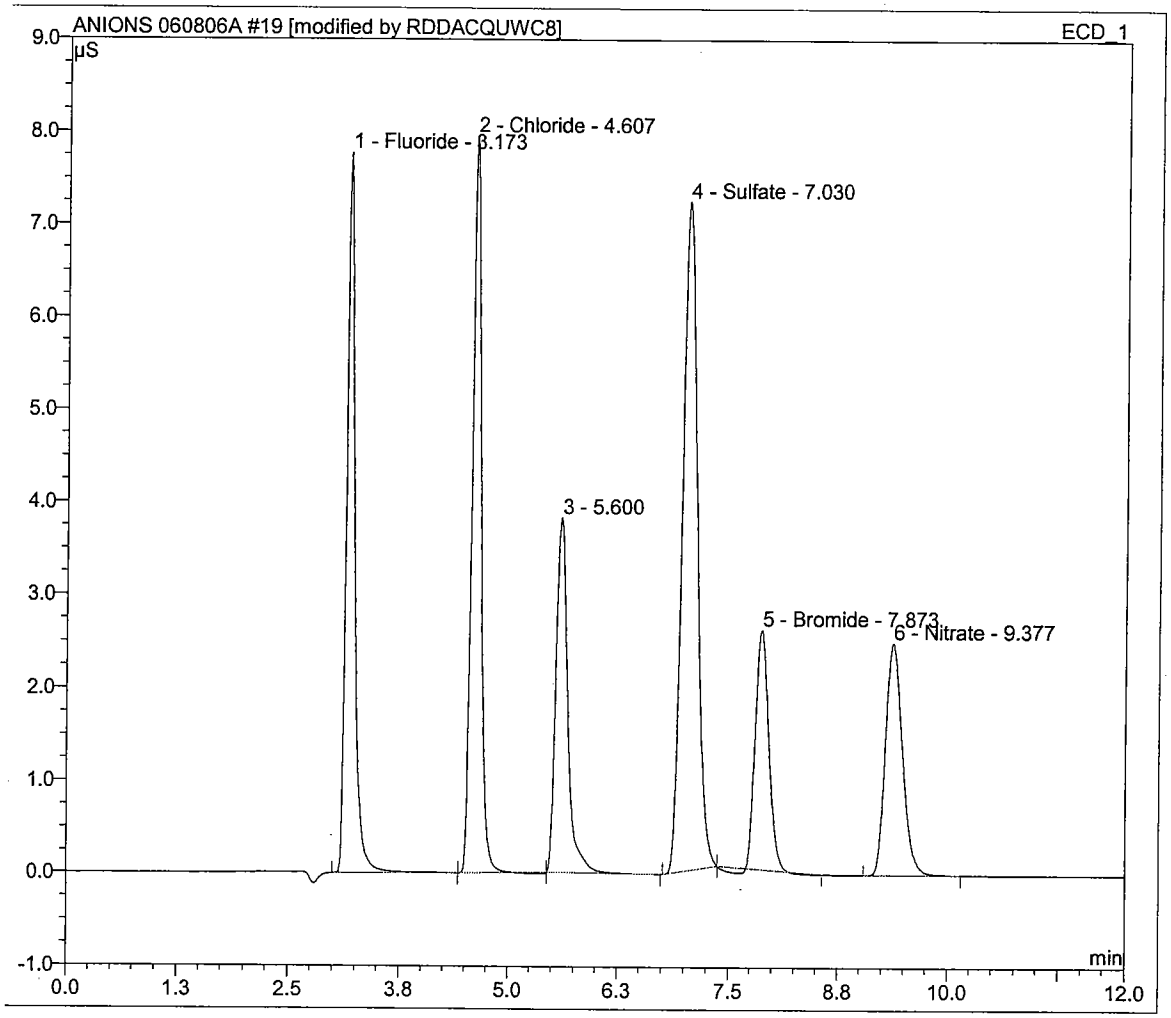
No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L	%R
1	3.17	Fluoride	BMB	1.029	9.194	2.7117	109
2	4.61	Chloride	BMB	1.251	9.975	5.2570	105
4	7.02	Sulfate	BMB	1.758	8.880	10.4102	104
5	7.87	Bromide	BMB	0.618	3.293	6.4164	103
6	9.37	Nitrate	BMB	0.686	3.008	1.2480	100
		TOTAL:		5.34	34.35	26.04	



final

Sample Name:	**CCVS**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 16:37**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L	% R
1	3.17	Fluoride	BMB	0.858	7.776	2.2610	~~104~~ 113
2	4.61	Chloride	BMb*	0.984	7.952	4.1427	104
4	7.03	Sulfate	BMb*	1.393	7.215	8.3475	104
5	7.87	Bromide	bMB*	0.453	2.582	4.8300	~~103~~ 97
6	9.38	Nitrate	BMB	0.567	2.502	1.0465	105
		TOTAL:		4.25	28.03	20.63	

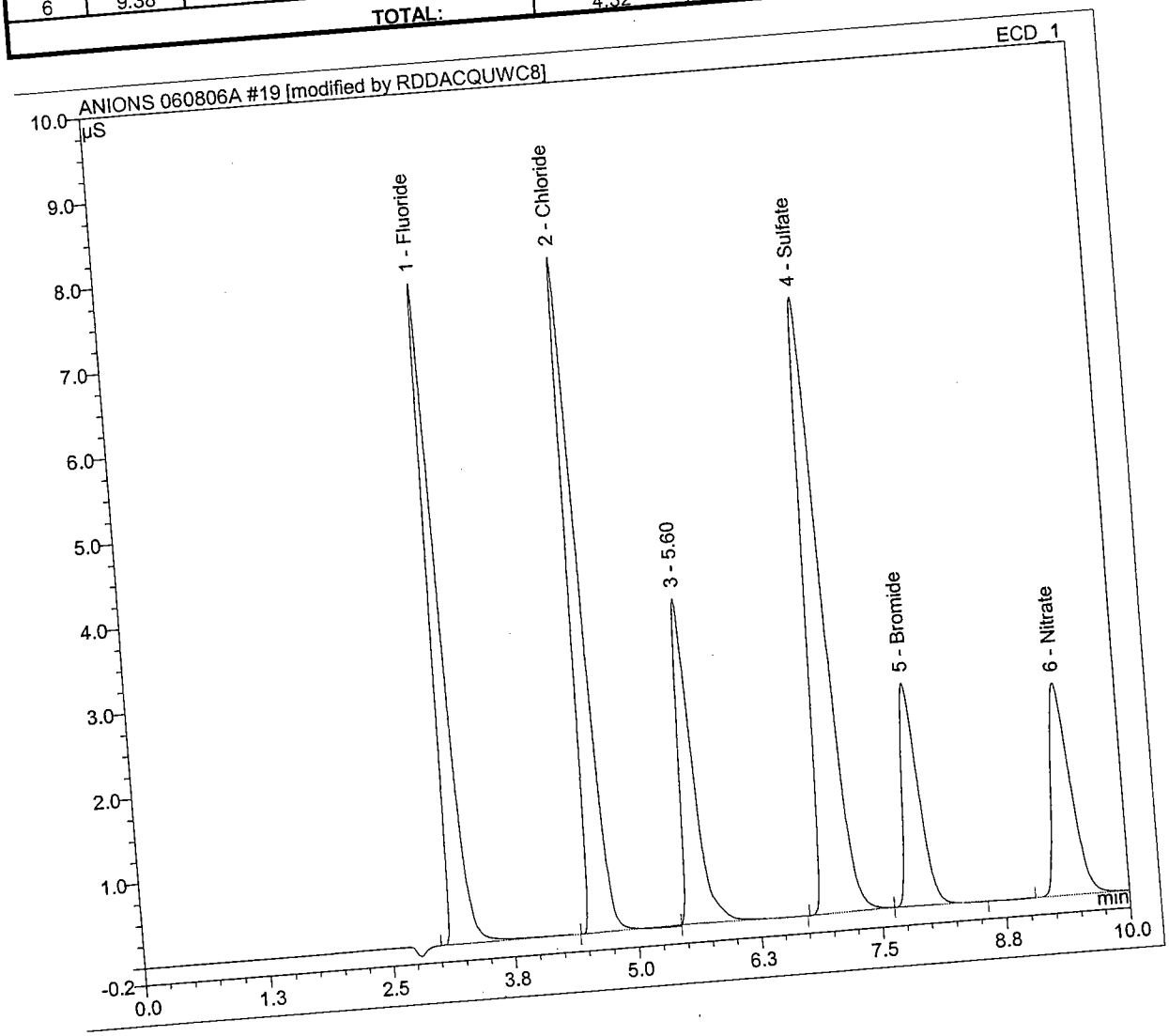


Operator:RDDACQUWC8 Timebase:ICS-2000 Sequence:ANIONS 060806A 6/19/2006 1:30 PM

Initial manual integration BQS 6/20/06

Sample Name:	CCVS	Inj. Vol.:	25.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	Anions_Program	Operator:	n.a.
Inj. Date/Time:	08.06.06 16:37	Run Time:	12.00

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L	% R
1	3.17	Fluoride	BMB	0.858	7.776	2.2610	113
2	4.61	Chloride	BMb*	0.984	7.952	4.1427	111
4	7.03	Sulfate	BMb	1.424	7.250	8.5211	
5	7.87	Bromide	bMB	0.491	2.625	5.1959	
6	9.38	Nitrate	BMB	0.567	2.502	1.0465	
		TOTAL:		4.32	28.10	21.17	

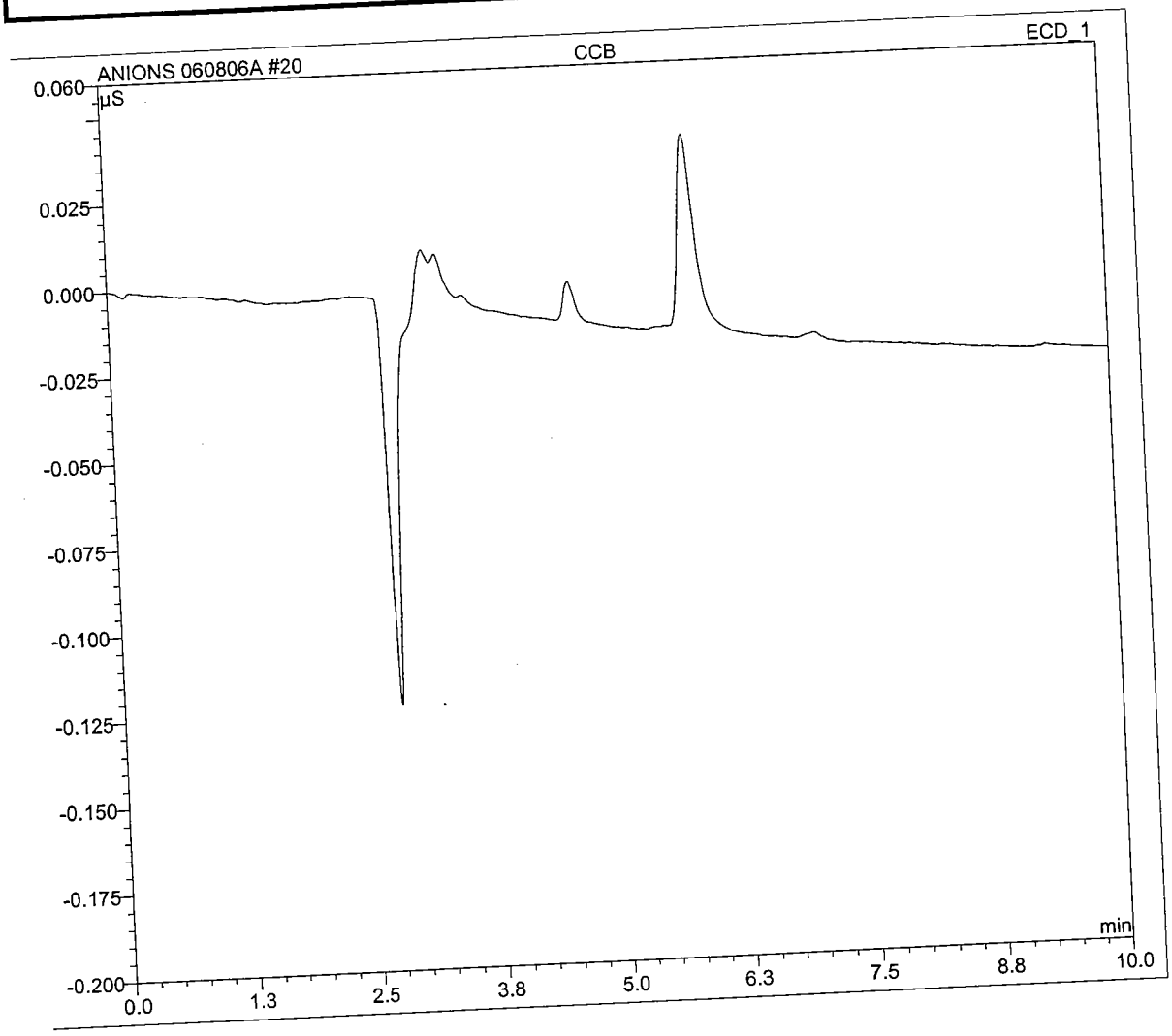


PeakNet 6 (r) Dionex 200
Version 6.50 SP2 Build 96

Anions_report/Integration

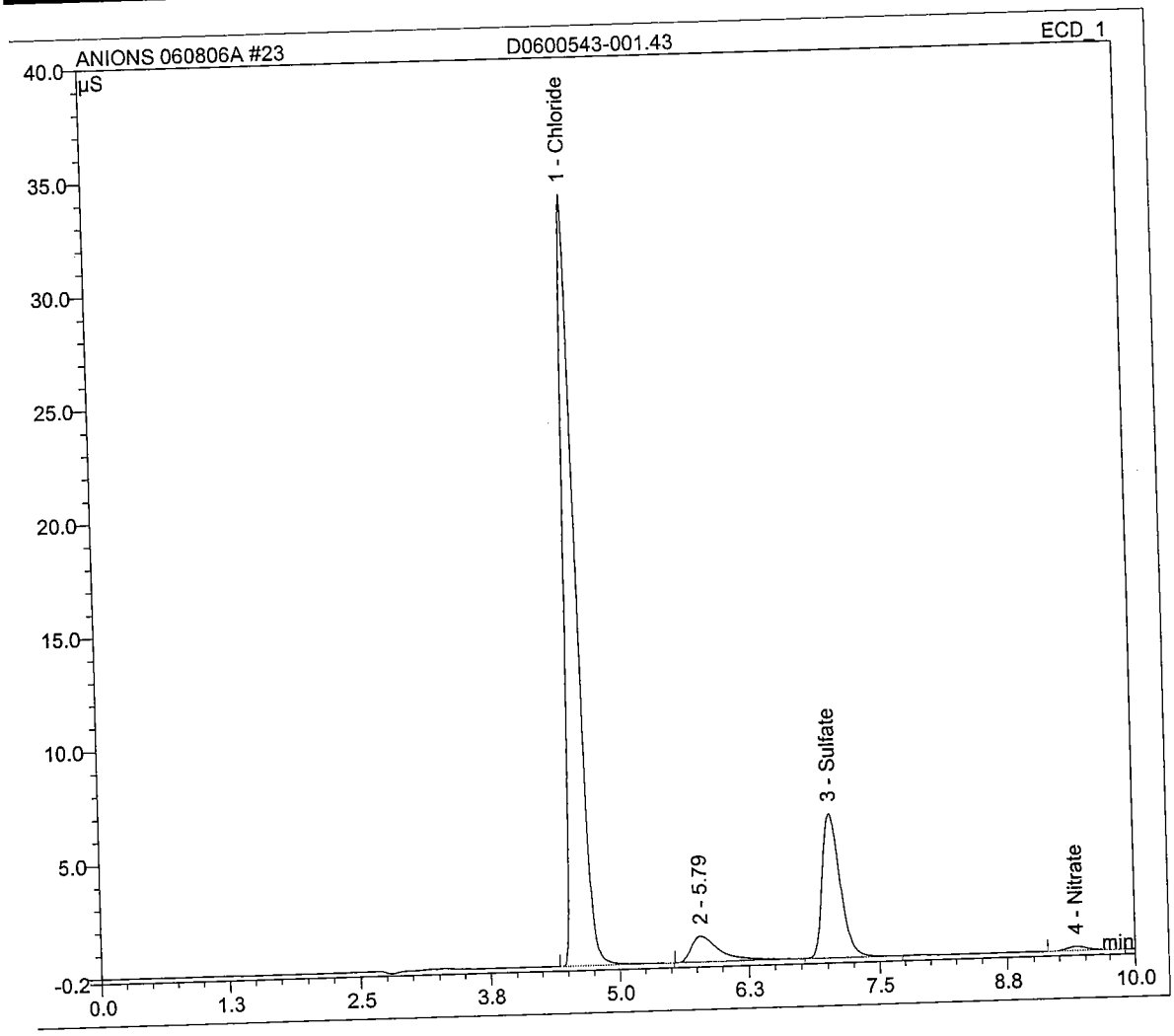
Sample Name:	**CCB**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 16:52**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
		TOTAL:		0.00	0.00	0.00



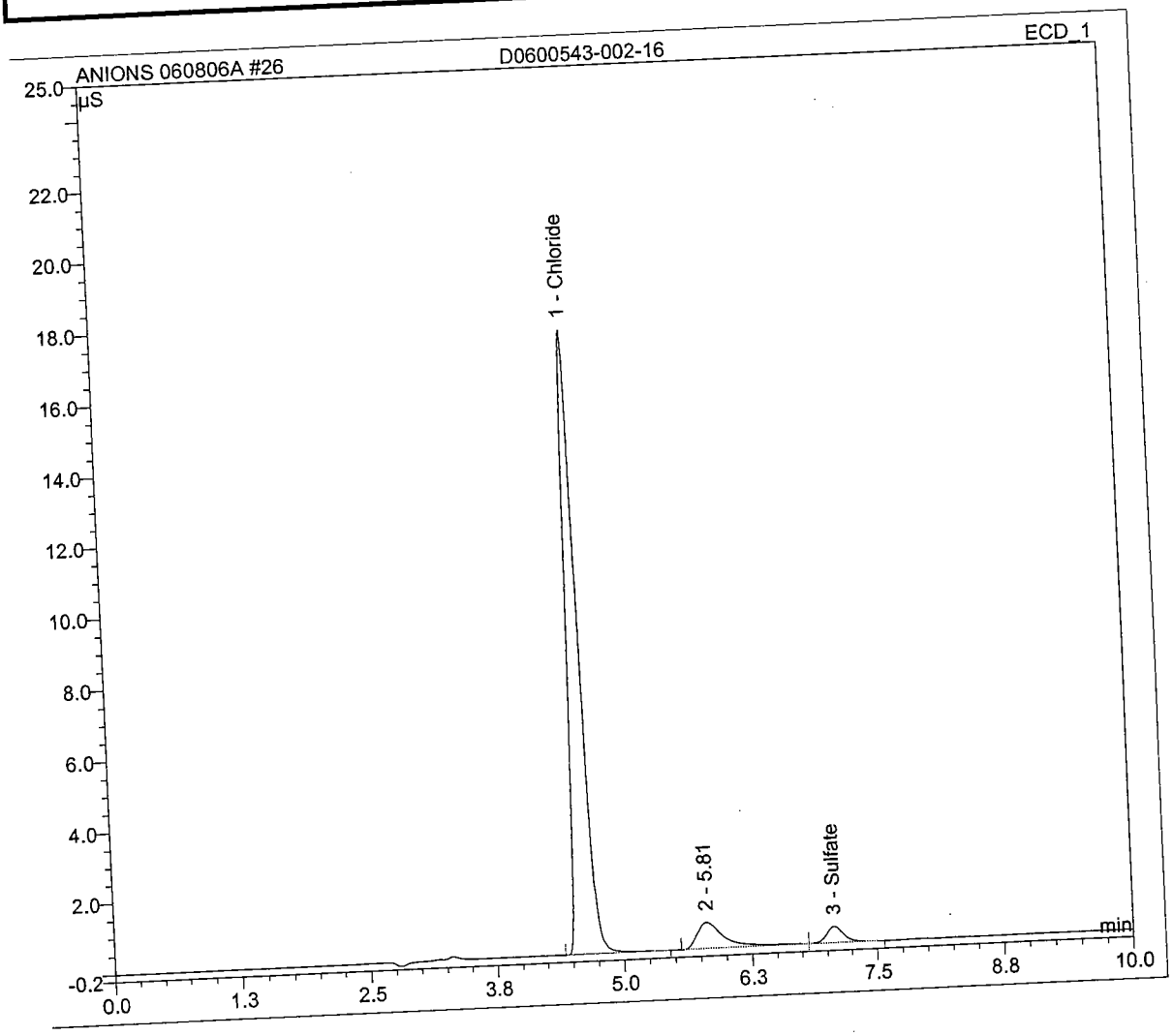
Sample Name:	**D0600543-001.43**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**20.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 17:35**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	4.61	Chloride	BMB	4.326	33.972	362.2277
3	7.04	Sulfate	BMB	1.271	6.363	153.2289
4	9.42	Nitrate	BMB	0.043	0.190	3.2626
		TOTAL:		5.64	40.53	518.72



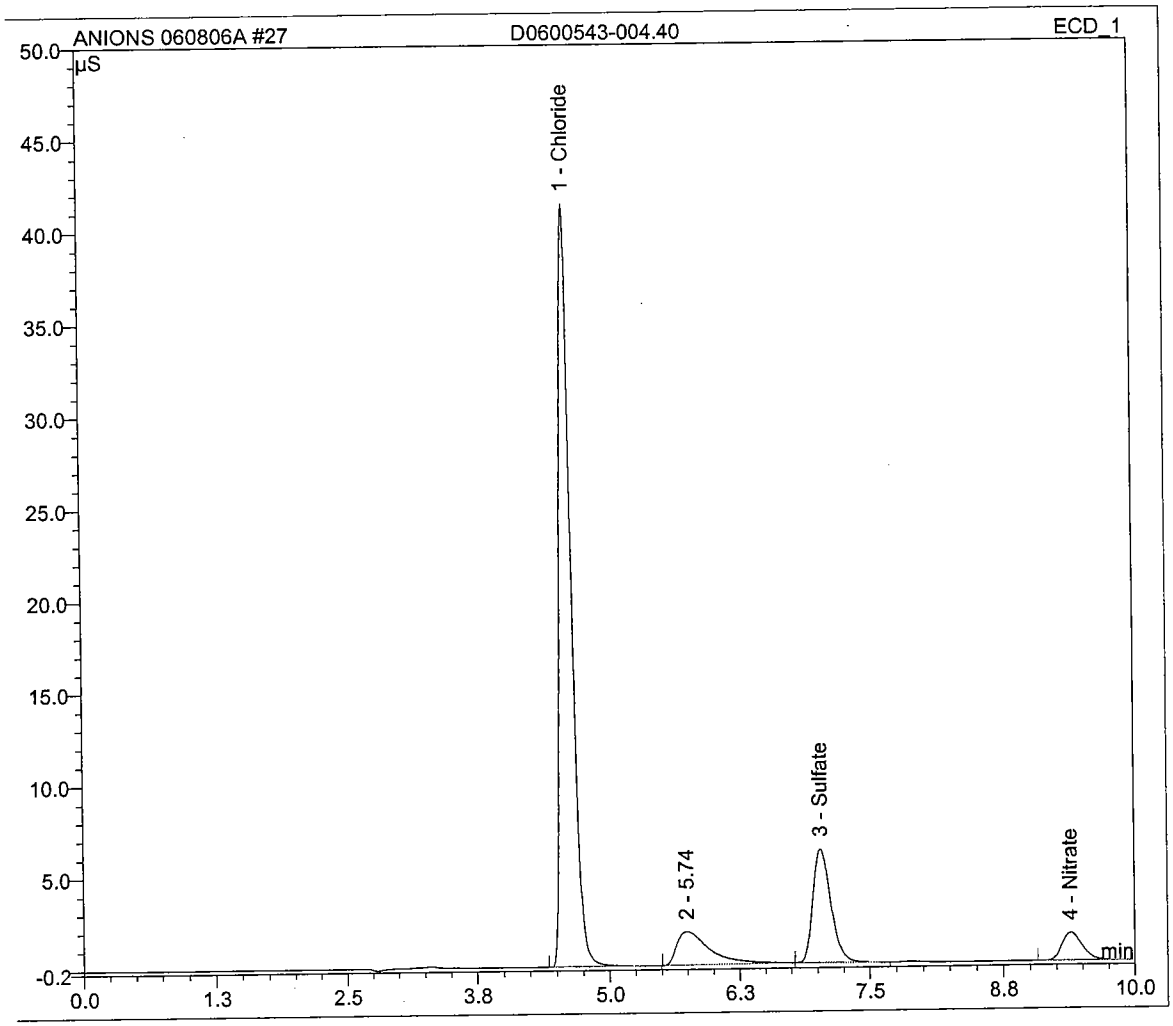
Sample Name:	**D0600543-002-16**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**100.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 18:19**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	4.61	Chloride	BMB	2.224	17.582	932.3479
3	7.07	Sulfate	bMB	0.088	0.451	97.2659
		TOTAL:		2.31	18.03	1029.61



Sample Name:	**D0600543-004.40**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**10.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 18:34**	*Run Time:*	**12.00**

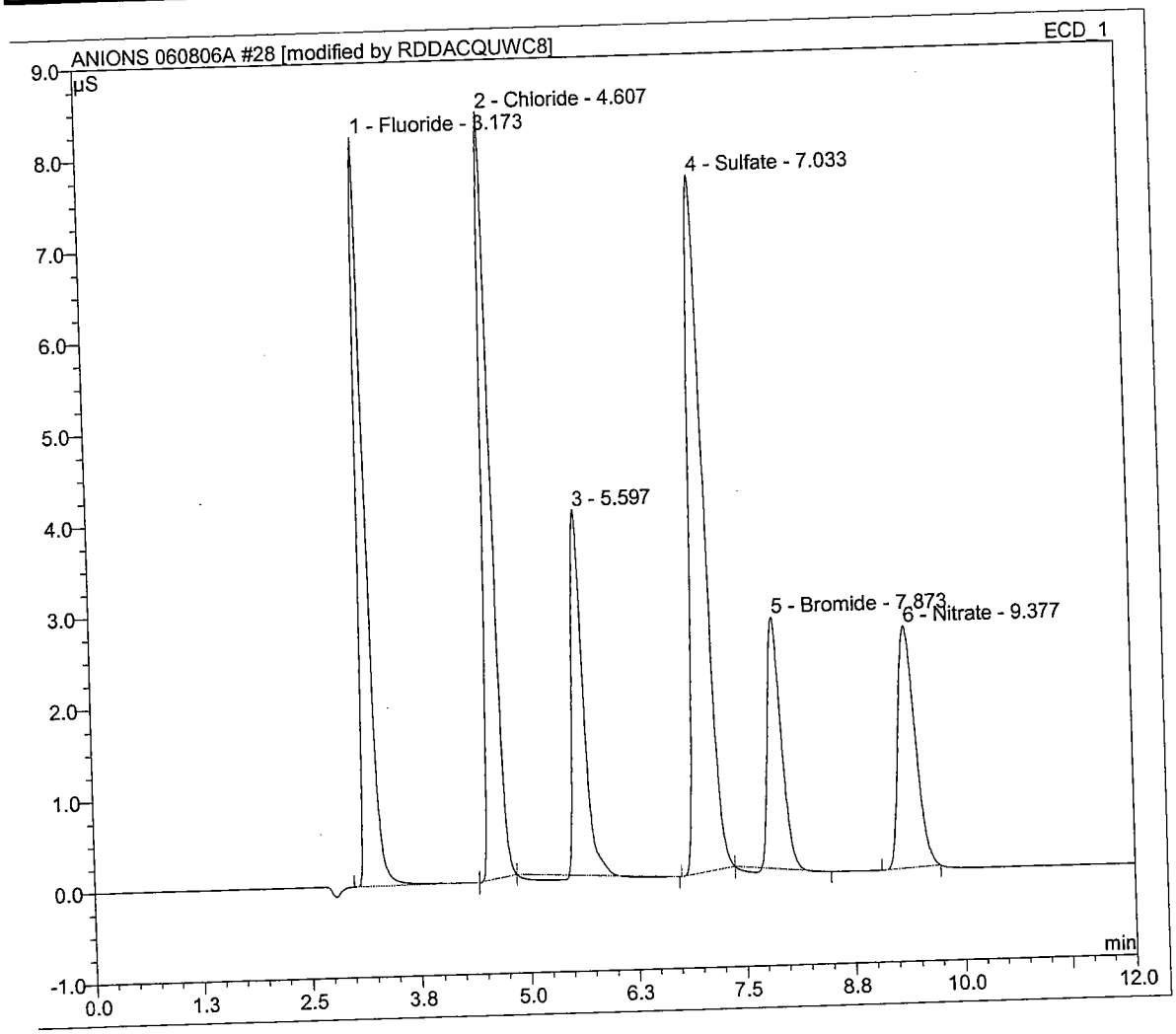
No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	4.60	Chloride	BMB	5.264	41.361	220.3094
3	7.03	Sulfate	bMB	1.222	6.168	73.8284
4	9.39	Nitrate	BMB	0.341	1.514	6.6516
		TOTAL:		6.83	49.04	300.79



final

Sample Name:	**CCVS**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 18:49**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L	%R
1	3.17	Fluoride	BMb*	0.904	8.195	2.3817	119
2	4.61	Chloride	bMb*	1.032	8.396	4.3423 BQS 6/30/06	~~121~~ 109
4	7.03	Sulfate	BMb*	1.481	7.630	8.8454	111
5	7.87	Bromide	bMB*	0.490	2.750	5.1899	104
6	9.38	Nitrate	BMB*	0.589	2.646	1.0842	108
		TOTAL:		4.50	29.62	21.84	

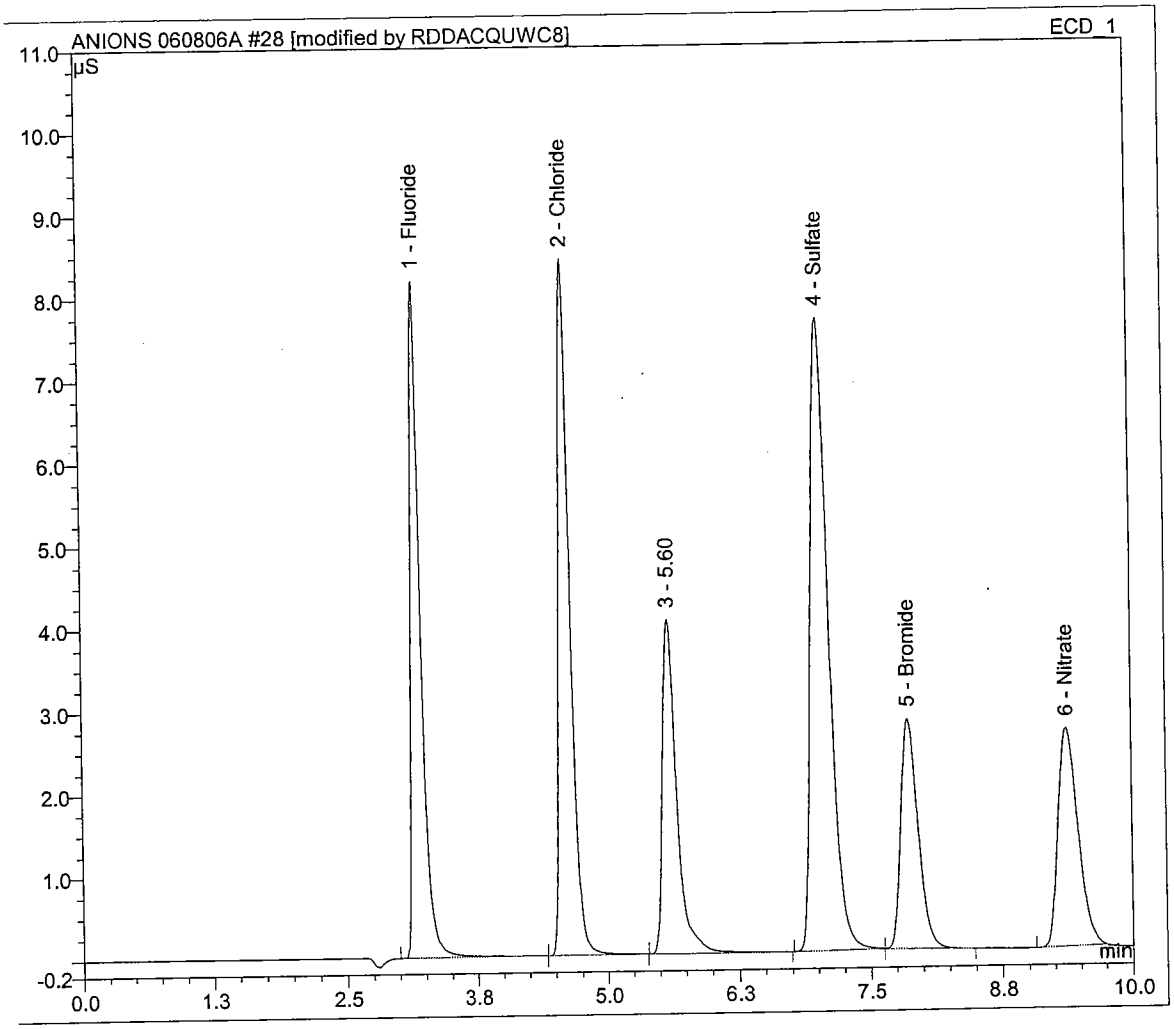


initial

Sample Name:	**CCVS**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 18:49**	*Run Time:*	**12.00**

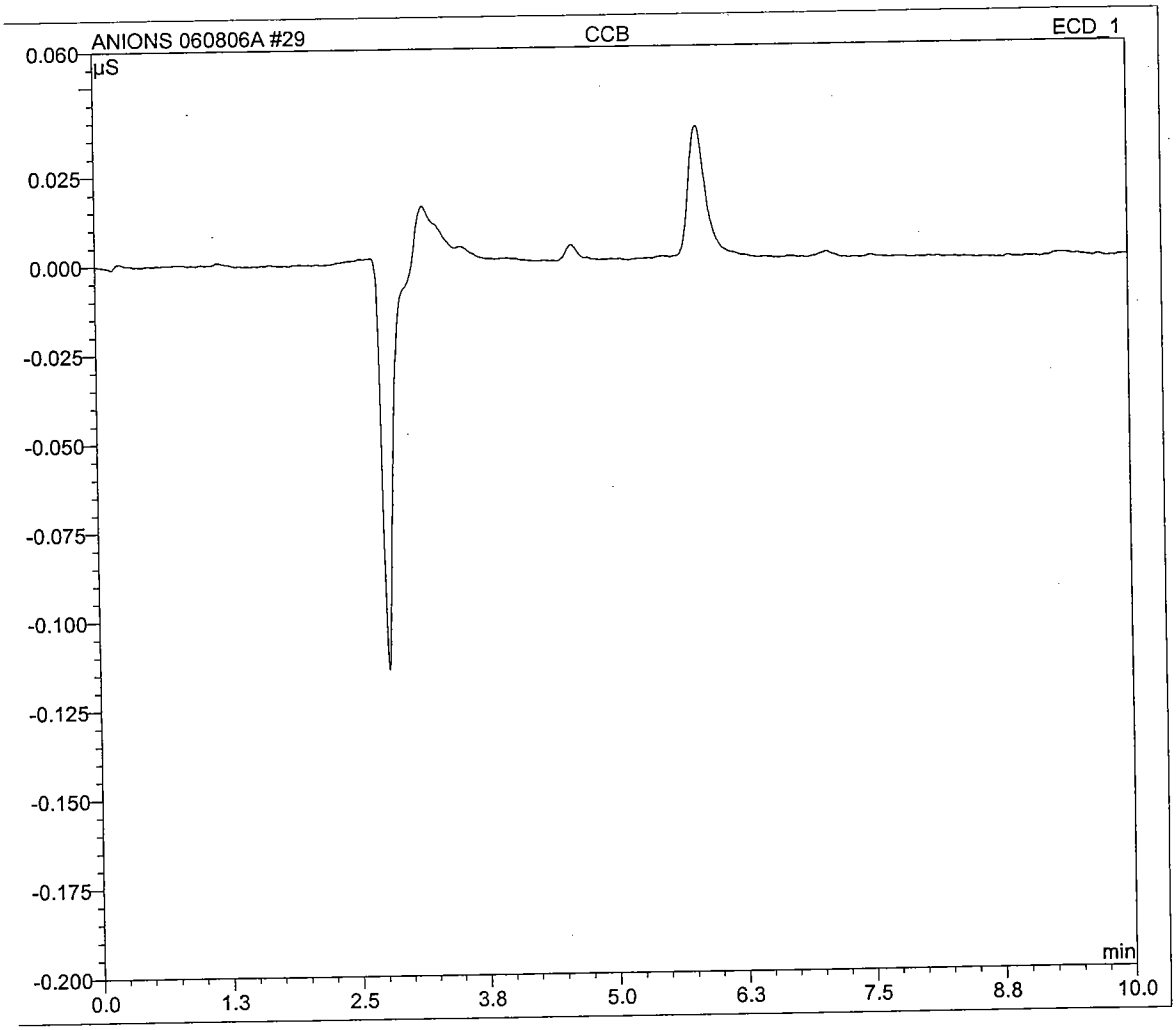
manual integration
BJS
6/20/06

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	3.17	Fluoride	BMb*	0.904	8.195	2.3817
2	4.61	Chloride	bMB	1.056	8.428	4.4418
4	7.03	Sulfate	BMb	1.511	7.664	9.0135
5	7.87	Bromide	bMB	0.522	2.787	5.5000
6	9.38	Nitrate	BMB*	0.594	2.652	1.0919
		TOTAL:		4.59	29.73	22.43



Sample Name:	**CCB**	*Inj. Vol.:*	**25.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions_Program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08.06.06 19:03**	*Run Time:*	**12.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
			TOTAL:	0.00	0.00	0.00



METALS
14
ANALYSIS RUN LOG

Client: Treadwell and Rollo, Inc. Contract: Presidio

Lab Code: RDD Case No.: SAS No.: SDG No.: D0600543

Instrument ID Number: ELAN 9000 Method: MS Run Number: 060806A

Start Date: 6/8/2006 End Date: 6/8/2006

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
Blank	1.00	1402						X																			
Standard 1	1.00	1406						X																			
ICV1	1.00	1410						X																			
ICB1	1.00	1419						X																			
RLS	1.00	1422						X																			
ICSA	1.00	1428						X																			
ICSAB	1.00	1436						X																			
CCV1	1.00	1505						X																			
CCB1	1.00	1512						X																			
1349MW100CL	10.00	1520						X																			
CCV2	1.00	1527						X																			
CCB2	1.00	1534						X																			

#2+3

METALS
14
ANALYSIS RUN LOG

Client: Treadwell and Rollo, Inc. Contract: Presidio

Lab Code: RDD Case No.: SAS No.: SDG No.: D0600543

Instrument ID Number: ELAN 9000 Method: MS Run Number: 061406A

Start Date: 6/14/2006 End Date: 6/14/2006

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
Blank	1.00	1515			X																	X					
Standard 1	1.00	1518			X																	X					
ICV1	1.00	1523			X																	X					
ICB1	1.00	1532			X																	X					
RLS	1.00	1536			X																	X					
ICSA	1.00	1542			X																	X					
ICSAB	1.00	1547			X																	X					
PBW	1.00	1554			X																	X					
LCSW	1.00	1557			X																	X					
LCSWD	1.00	1559			X																	X					
1213GW101CL	1.00	1602			X																	X					
CCV1	1.00	1614			X																	X					
CCB1	1.00	1621			X																	X					
1349MW100CL	1.00	1626			X																	X					
1065MW9ACL	1.00	1629			X																						
BHWGW01CL	1.00	1631			X																	X					
CCV2	1.00	1641			X																	X					
CCB2	1.00	1648			X																	X					

7D
PESTICIDE BREAKDOWN

Lab Name: COLUMBIA ANALYTICAL SERVICES Case No.: D0600543 SDG No.: D0600543

GC Column: DB5 ID: 0.53 (mm) Init. Calib. Date(s): 06/04/06 06/04/06

Lab File ID: D0612002

Date Analyzed :06/12/06

Time Analyzed :1546

DDE AREA = 0
DDD AREA = 0
DDT AREA = 130941679
Endrin Aldehyde AREA = 4586307
Endrin Keto
Endrin AREA

#7

4,4'-DDT %)0 Endrin % breakdown (1): 6.27

QC LIMITS:

4,4 c be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1 SW846

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
ICAL Date: 06/28/2006

Initial Calibration Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 06/28/2006LCI
Instrument ID: LCI

Level ID	File ID
A	I0628010
B	I0628011
C	I0628012
D	I0628013
E	I0628014

#8

Analyte Name	Level ID							Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Naphthalene	A							20.00	229.7	D	30.00	220.4	E	40.00	216.6
Fluorene	A		[illegible]	B	2.000	1022	C	4.000	1061	D	6.000	1026	E	8.000	1001
Phenanthrene	A	0.100	2400	B	1.000	2311	C	2.000	2421	D	3.000	2317	E	4.000	2296
Anthracene	A	0.100	4540	B	1.000	4435	C	2.000	4545	D	3.000	4269	E	4.000	4114
Fluoranthene	A	0.100	590.7	B	1.000	598.6	C	2.000	620.7	D	3.000	601.8	E	4.000	572.8
Pyrene	A	0.100	622.8	B	1.000	579.1	C	2.000	593.1	D	3.000	566.6	E	4.000	526.6
Benz(a)anthracene	A	0.100	1426	B	1.000	1435	C	2.000	1532	D	3.000	1460	E	4.000	1445
Chrysene	A	0.100	2286	B	1.000	2351	C	2.000	2479	D	3.000	2380	E	4.000	2355
Benzo(b)fluoranthene	A	0.100	1668	B	1.000	1615	C	2.000	1702	D	3.000	1640	E	4.000	1621
Benzo(k)fluoranthene	A	0.100	1154	B	1.000	1059	C	2.000	1123	D	3.000	1070	E	4.000	1072
Benzo(a)pyrene	A	0.100	1561	B	1.000	1458	C	2.000	1563	D	3.000	1494	E	4.000	1483
Dibenz(a,h)anthracene	A	0.200	412.4	B	2.000	390.0	C	4.000	408.2	D	6.000	393.2	E	8.000	387.8
Benzo(g,h,i)perylene	A	0.200	685.8	B	2.000	597.1	C	4.000	619.9	D	6.000	599.2	E	8.000	590.1
Indeno(1,2,3-cd)pyrene	A	0.100	1637	B	1.000	1276	C	2.000	1316	D	3.000	1271	E	4.000	1249
Acenaphthylene	A	2.000	143.3	B	20.00	147.6	C	40.00	153.6	D	60.00	146.6	E	80.00	145.0
Acenaphthene	A	1.000	79.30	B	10.00	85.96	C	20.00	89.52	D	30.00	80.48	E	40.00	83.97
p-Terphenyl-d14	A	0.250	657.6	B	2.500	596.5	C	5.000	637.9	D	7.500	605.3	E	10.00	599.3

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
ICAL Date: 06/28/2006

Initial Calibration Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 06/28/2006LCI
Instrument ID: LCI
Mean RSD: 4.14

Analyte Name	Compound Type	Fit Type	Calibration Evaluation Eval.	Eval. Result	Q	Control Criteria
Naphthalene	TRG	AverageRF	% RSD	2.5		20.0
Fluorene	TRG	AverageRF	% RSD	4.4		20.0
Phenanthrene	TRG	AverageRF	% RSD	2.4		20.0
Anthracene	TRG	AverageRF	% RSD	4.3		20.0
Fluoranthene	TRG	AverageRF	% RSD	2.9		20.0
Pyrene	TRG	AverageRF	% RSD	6.1		20.0
Benz(a)anthracene	TRG	AverageRF	% RSD	2.9		20.0
Chrysene	TRG	AverageRF	% RSD	3.0		20.0
Benzo(b)fluoranthene	TRG	AverageRF	% RSD	2.2		20.0
Benzo(k)fluoranthene	TRG	AverageRF	% RSD	3.7		20.0
Benzo(a)pyrene	TRG	AverageRF	% RSD	3.2		20.0
Dibenz(a,h)anthracene	TRG	AverageRF	% RSD	2.8		20.0
Benzo(g,h,i)perylene	TRG	AverageRF	% RSD	6.3		20.0
Indeno(1,2,3-cd)pyrene	TRG	AverageRF	% RSD	12.0		20.0
Acenaphthylene	TRG	AverageRF	% RSD	2.7		20.0
Acenaphthene	TRG	AverageRF	% RSD	4.9		20.0
p-Terphenyl-d14	SUR	AverageRF	% RSD	4.4		20.0

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Results

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
Date Analyzed: 06/28/2006

Second Source Calibration Verification
Polynuclear Aromatic Hydrocarbons

ICAL ID: 06/28/2006LCI
Instrument ID: LCI
File ID: I0628015

Column: UV

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%	Criteria	Curve Fit	Q
Naphthalene	20.00	20.73	220.3	228.4	3.6	NA	+/- 15.0	AverageRF	
Fluorene	4.000	4.228	1010	1068	5.7	NA	+/- 15.0	AverageRF	
Phenanthrene	2.000	2.026	2349	2380	1.3	NA	+/- 15.0	AverageRF	
Anthracene	2.000	2.129	4381	4664	6.5	NA	+/- 15.0	AverageRF	
Fluoranthene	2.000	2.102	596.9	627.5	5.1	NA	+/- 15.0	AverageRF	
Pyrene	2.000	1.893	577.6	546.8	-5.3	NA	+/- 15.0	AverageRF	
Benz(a)anthracene	2.000	2.126	1460	1552	6.3	NA	+/- 15.0	AverageRF	
Chrysene	2.000	2.174	2370	2576	8.7	NA	+/- 15.0	AverageRF	
Benzo(b)fluoranthene	2.000	2.140	1649	1765	7.0	NA	+/- 15.0	AverageRF	
Benzo(k)fluoranthene	2.000	2.094	1096	1147	4.7	NA	+/- 15.0	AverageRF	
Benzo(a)pyrene	2.000	2.144	1512	1621	7.2	NA	+/- 15.0	AverageRF	
Dibenz(a,h)anthracene	4.000	3.917	398.3	390.0	-2.1	NA	+/- 15.0	AverageRF	
Benzo(g,h,i)perylene	4.000	4.063	618.4	628.2	1.6	NA	+/- 15.0	AverageRF	
Indeno(1,2,3-cd)pyrene	2.000	2.093	1350	1413	4.6	NA	+/- 15.0	AverageRF	
Acenaphthylene	40.00	41.48	147.2	152.7	3.7	NA	+/- 15.0	AverageRF	
Acenaphthene	20.00	20.93	83.85	87.75	4.6	NA	+/- 15.0	AverageRF	
p-Terphenyl-d14	N/A	N/A	619.3	9.436	0.0	NA	+/- 15.0	AverageRF	

Client: Treadwell and Rollo, Inc.
Project: Presidio

Service Request: D0600543
Date Analyzed: 06/28/2006

Continuing Calibration Verification Summary
Polynuclear Aromatic Hydrocarbons

ICAL ID: 06/28/2006LCI
Instrument ID: LCI
File ID: I0628022

Column: UV

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%	Criteria	Curve Fit	Q
Naphthalene	20.00	20.89	220.3	230.1	4.4	NA	+/- 15.0	AverageRF	
Fluorene	4.000	4.246	1010	1072	6.1	NA	+/- 15.0	AverageRF	
Phenanthrene	2.000	2.075	2349	2438	3.8	NA	+/- 15.0	AverageRF	
Anthracene	2.000	2.080	4381	4557	4.0	NA	+/- 15.0	AverageRF	
Fluoranthene	2.000	2.099	596.9	626.4	4.9	NA	+/- 15.0	AverageRF	
Pyrene	2.000	1.945	577.6	561.7	-2.8	NA	+/- 15.0	AverageRF	
Benzo(a)anthracene	2.000	2.090	1460	1525	4.5	NA	+/- 15.0	AverageRF	
Chrysene	2.000	2.103	2370	2493	5.2	NA	+/- 15.0	AverageRF	
Benzo(b)fluoranthene	2.000	2.082	1649	1716	4.1	NA	+/- 15.0	AverageRF	
Benzo(k)fluoranthene	2.000	2.048	1096	1122	2.4	NA	+/- 15.0	AverageRF	
Benzo(a)pyrene	2.000	2.077	1512	1570	3.8	NA	+/- 15.0	AverageRF	
Dibenzo(a,h)anthracene	4.000	4.097	398.3	408.0	2.4	NA	+/- 15.0	AverageRF	
Benzo(g,h,i)perylene	4.000	4.056	618.4	627.1	1.4	NA	+/- 15.0	AverageRF	
Indeno(1,2,3-c,d)pyrene	2.000	1.969	1350	1329	-1.5	NA	+/- 15.0	AverageRF	
Acenaphthylene	40.00	42.28	147.2	155.6	5.7	NA	+/- 15.0	AverageRF	
Acenaphthene	20.00	21.56	83.85	90.39	7.8	NA	+/- 15.0	AverageRF	
Terphenyl-d14 - SS	5.000	5.133	619.3	635.8	2.6	NA	+/- 15.0	AverageRF	

5090 Caterpillar Road Redding, California 96003 (530) 244-5227 (530) 244-4109 fax

Columbia Analytical Services INC.
An Employee - Owned Company

RECEIVED
AUG 0 1 2006
TREADWELL & ROLLO

July 28, 2006

Josh Graber
Treadwell and Rollo
555 Montgomery St.
San Francisco, CA 94111

RE: Presidio

AMENDMENT-D0600543

Dear Josh:

Enclosed is the amended data for the above-mentioned service request. The incorrect carbon ranges were used in quantitating diesel and motor oil. The data was requantitated so that the ranges indicated in the QAPP are used. In addition the RLs and units were modified to comply with the QAPP requirements.

Columbia Analytical Services appreciates your business and looks forward to serving your future analytical needs. If you have any questions concerning the data or if you need additional information, please call me at (530) 244-5227 ex. 104.

Respectfully submitted,

Columbia Analytical Services, Inc.

Karen Sellers

Karen Sellers
Project Chemist

NELAP Accredited ACIL Seal of Excellence Award 100% Recycled

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: 05/24/2006
Date Received: 05/26/2006

Diesel Range Organics / Motor Oil Range Organics

Sample Name: 1213GW101CL
Lab Code: D0600543-001
Extraction SW3510
Analysis Method: SW8015

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
TPH-Diesel (C12-C24)	ND	U	50	1	05/31/2006	06/10/2006	DWB10531	
Motor Oil (C24-C36)	ND	U	300	1	05/31/2006	06/10/2006	DWB10531	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	93	58-111	06/10/2006	
Triacontane - SS	93	54-109	06/10/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client:	Treadwell and Rollo, Inc.	**Service Request:**	D0600543
Project:	Presidio	**Date Collected:**	05/24/2006
Sample Matrix:	Water	**Date Received:**	05/26/2006

Diesel Range Organics / Motor Oil Range Organics

Sample Name:	1349MW100CL		
Lab Code:	D0600543-002	**Units:**	ug/L (ppb)
		Basis:	NA
Extraction	SW3510		
Analysis Method:	SW8015		

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
TPH-Diesel (C12-C24)	**5100**		100	2	05/31/2006	06/11/2006	DWB10531	
Motor Oil (C24-C36)	ND	U	630	2	05/31/2006	06/11/2006	DWB10531	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	83	58-111	06/11/2006	
Triacontane - SS	84	54-109	06/11/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

Analytical Report

Client: Treadwell and Rollo, Inc.
Project: Presidio
Sample Matrix: Water

Service Request: D0600543
Date Collected: 05/24/2006
Date Received: 05/26/2006

Diesel Range Organics / Motor Oil Range Organics

Sample Name: 1065MW9ACL
Lab Code: D0600543-003
Extraction SW3510
Analysis Method: SW8015

Units: ug/L (ppb)
Basis: NA

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
TPH-Diesel (C12-C24)	ND	U	53	1	05/31/2006	06/10/2006	DWB10531	
Motor Oil (C24-C36)	ND	U	320	1	05/31/2006	06/10/2006	DWB10531	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	60	58-111	06/10/2006	
Triacontane - SS	61	54-109	06/10/2006	

Comments: _____

COLUMBIA ANALYTICAL SERVICES/REDDING

QA/QC Report

Client:	Treadwell and Rollo, Inc.	**Service Request:**	D0600543
Project:	Presidio	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Diesel Range Organics / Motor Oil Range Organics

Sample Name:	Method Blank		
Lab Code:	DWB10531	**Units:**	ug/L (ppb)
Extraction	SW3510	**Basis:**	NA
Analysis Method:	SW8015		

Analyte	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
TPH-Diesel (C12-C24)	ND	U	50	1	05/31/2006	06/10/2006	DWB10531	
Motor Oil (C24-C36)	ND	U	300	1	05/31/2006	06/10/2006	DWB10531	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Octacosane - SS	75	58-111	06/10/2006	
Triacontane - SS	76	54-109	06/10/2006	

Comments: _____

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TREADWELL & ROLLO

July 28, 2006

Josh Graber
Treadwell and Rollo
555 Montgomery St.
San Francisco, CA 94111

RE: Presidio

ADDENDUM-D0600543

Dear Josh:

Enclosed is the amended data for the above-mentioned service request. Per client request, initial calibration data for Hg and Se is being provided.

Columbia Analytical Services appreciates your business and looks forward to serving your future analytical needs. If you have any questions concerning the data or if you need additional information, please call me at (530) 244-5227 ex. 104.

Respectfully submitted,

Columbia Analytical Services, Inc.

Karen Sellers

Karen Sellers
Project Manager

NELAP Accredited ACIL Seal of Excellence Award 100% Recycled

Method Name: Selinium Se Element: Se
Method Description: Selenium SW7740 / EPA270.2

Date: 06/19/2006
Technique: Furnace Calibration Equation: Calc. Intercept: Linear
Wavelength: 196.0 nm Slit Width: 2.00 nm
Lamp Current: 0 Energy: 60
Sample Info File: CAS2.SIF Results Data Set: Y060619

==========

Element: Se Seq. No.: 1 AS Loc.: 0 Date: 06/19/2006
Sample ID: Calib. Blank
µL dispensed: 8 from 0, 4 from 40, 20 from 0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1			0.022	0.022	0.027	18:12:21	No
2			0.022	0.022	0.027	18:14:56	No
Mean:			0.022				
SD :			0.000				
%RSD:			1.91				

Auto-zero performed.

==========

Element: Se Seq. No.: 2 AS Loc.: 38 Date: 06/19/2006
Sample ID: Standard 1
µL dispensed: 26 from 0, 4 from 40, 2 from 38

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1			0.008	0.030	0.031	18:17:37	No
2			0.012	0.034	0.030	18:20:21	No
Mean:			0.010				
SD :			0.003				
%RSD:			26.14				

Standard number 1 applied. [2]
Correlation Coefficient: 1.0000 Slope: 0.0051

==========

Element: Se Seq. No.: 3 AS Loc.: 38 Date: 06/19/2006
Sample ID: Standard 2
µL dispensed: 18 from 0, 4 from 40, 10 from 38

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1			0.032	0.054	0.038	18:23:07	No
2			0.034	0.056	0.036	18:25:52	No
Mean:			0.033				
SD :			0.002				
%RSD:			4.53				

Standard number 2 applied. [10]
Correlation Coefficient: 0.9937 Slope: 0.0032

==========

Element: Se Seq. No.: 4 AS Loc.: 38 Date: 06/19/2006
Sample ID: Standard 3
µL dispensed: 8 from 0, 4 from 40, 20 from 38

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1			0.063	0.085	0.045	18:28:38	No
2			0.064	0.086	0.045	18:31:22	No
Mean:			0.064				
SD :			0.001				
%RSD:			1.05				

Standard number 3 applied. [20]

Element: Se Seq. No.: 5 AS Loc.: 39 Date: 06/19/2006
Sample ID: Standard 4
µL dispensed: 20 from 0, 4 from 40, 8 from 39

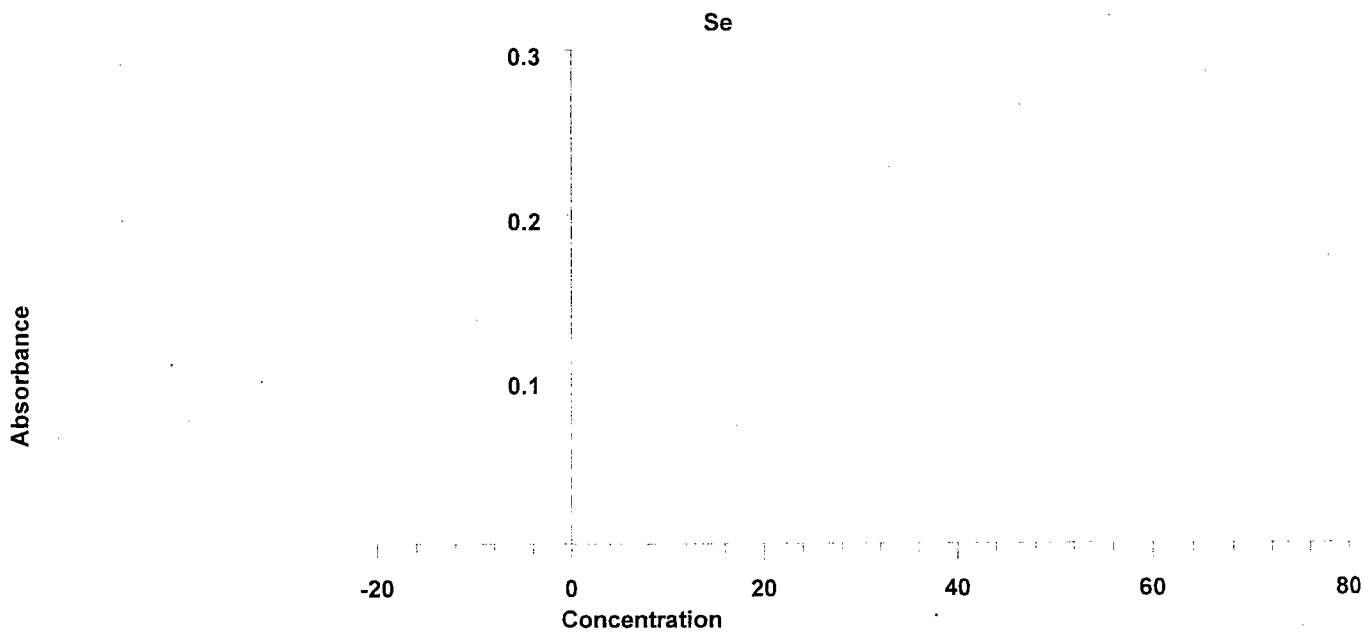
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1			0.133	0.155	0.067	18:34:07	No
2			0.133	0.155	0.065	18:36:45	No
Mean:			0.133				
SD :			0.000				
%RSD:			0.12				

Standard number 4 applied. [40]
Correlation Coefficient: 0.9992 Slope: 0.0033

Element: Se Seq. No.: 6 AS Loc.: 39 Date: 06/19/2006
Sample ID: Standard 5
µL dispensed: 14 from 0, 4 from 40, 14 from 39

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1			0.222	0.244	0.091	18:39:25	No
2			0.220	0.242	0.091	18:42:05	No
Mean:			0.221				
SD :			0.001				
%RSD:			0.55				

The calibration curve may not be linear.
Standard number 5 applied. [70]
Correlation Coefficient: 0.9995 Slope: 0.0032



Calibration data for Se

Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib. Blank	0.000	----	-0.67	0.00	1.91
Standard 1	0.010	2	2.55	0.00	26.14
Standard 2	0.033	10	9.89	0.00	4.53
Standard 3	0.064	20	19.5	0.00	1.05
Standard 4	0.133	40	41.4	0.00	0.12
Standard 5	0.221	70	69.3	0.00	0.55

Correlation Coefficient: 0.99952 Slope: 0.00316 Intercept: 0.002

==========

Element: Se Seq. No.: 7 AS Loc.: 1 Date: 06/19/2006
Sample ID: ICV
µL dispensed: 8 from 0, 4 from 40, 20 from 1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	20.8	20.8	0.068	0.090	0.051	21:34:18	No
2	20.6	20.6	0.067	0.089	0.051	21:36:58	No
Mean:	20.7	20.7	0.067				
SD :	0.18	0.18	0.001				
%RSD:	0.86	0.86	0.84				

QC value within specified limits.

==========

Element: Se Seq. No.: 8 AS Loc.: 0 Date: 06/19/2006
Sample ID: ICB
µL dispensed: 8 from 0, 4 from 40, 20 from 0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.23	-0.23	0.001	0.023	0.028	21:39:38	No
2	-0.78	-0.78	0.000	0.022	0.030	21:42:14	No
Mean:	-0.51	-0.51	0.001				
SD :	0.39	0.39	0.001				
%RSD:	76.8	76.8	242.26				

==========

Element: Se Seq. No.: 9 AS Loc.: 0 Date: 06/19/2006
Sample ID: ICB
µL dispensed: 4 from 40, 8 from 36, 20 from 0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	19.7	19.7	0.064	0.086	0.044	21:44:52	No
2	20.1	20.1	0.066	0.088	0.043	21:47:30	No
Mean:	19.9	19.9	0.065				
SD :	0.35	0.35	0.001				
%RSD:	1.73	1.73	1.68				

Recovery is 99.5%
QC out of limits. Current analytical sequence continued.

Element: Se Seq. No.: 10 AS Loc.: 9 Date: 06/19/2006
Sample ID: WSICPMS0602BLK2
µL dispensed: 8 from 0, 4 from 40, 20 from 9

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.43	-0.43	0.001	0.023	0.027	21:50:14	No
2	-0.31	-0.31	0.001	0.023	0.025	21:52:59	No
Mean:	-0.37	-0.37	0.001				
SD :	0.08	0.08	0.000				
%RSD:	22.7	22.7	28.45				

Element: Se Seq. No.: 11 AS Loc.: 10 Date: 06/19/2006
Sample ID: ICPMSLCS2
µL dispensed: 8 from 0, 4 from 40, 20 from 10

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	116	11.6	0.039	0.061	0.063	21:55:43	No
2	113	11.3	0.038	0.060	0.066	21:58:26	No
Mean:	114	11.4	0.038				
SD :	2.40	0.24	0.001				
%RSD:	2.10	2.10	1.98				

Element: Se Seq. No.: 12 AS Loc.: 11 Date: 06/19/2006
Sample ID: ICPMSLCS2D
µL dispensed: 8 from 0, 4 from 40, 20 from 11

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	119	11.9	0.040	0.062	0.076	22:01:10	No
2	109	10.9	0.037	0.058	0.077	22:03:51	No
Mean:	114	11.4	0.038				
SD :	6.91	0.69	0.002				
%RSD:	6.06	6.06	5.73				

Element: Se Seq. No.: 13 AS Loc.: 12 Date: 06/19/2006
Sample ID: WSD0600543-001
µL dispensed: 8 from 0, 4 from 40, 20 from 12

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	2.20	2.20	0.009	0.031	0.177	22:06:31	No
2	2.06	2.06	0.009	0.031	0.174	22:09:11	No
Mean:	2.13	2.13	0.009				
SD :	0.09	0.09	0.000				
%RSD:	4.44	4.44	3.38				

Element: Se Seq. No.: 14 AS Loc.: 13 Date: 06/19/2006
Sample ID: WSD0600543-002
µL dispensed: 8 from 0, 4 from 40, 20 from 13

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	0.70	0.70	0.004	0.026	0.240	22:11:50	No
2	-0.47	-0.47	0.001	0.023	0.244	22:14:28	No
Mean:	0.12	0.12	0.002				
SD :	0.83	0.83	0.003				
%RSD:	716	716	106.07				

Element: Se Seq. No.: 15 AS Loc.: 14 Date: 06/19/2006
Sample ID: WSD0600543-003
µL dispensed: 8 from 0, 4 from 40, 20 from 14

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-1.03	-1.03	-0.001	0.021	0.092	22:17:07	No
2	-1.48	-1.48	-0.003	0.019	0.087	22:19:44	No
Mean:	-1.26	-1.26	-0.002				
SD :	0.32	0.32	0.001				
%RSD:	25.4	25.4	53.83				

Element: Se Seq. No.: 16 AS Loc.: 15 Date: 06/19/2006
Sample ID: WSD0600543-004
µL dispensed: 8 from 0, 4 from 40, 20 from 15

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	0.27	0.27	0.003	0.025	0.139	22:22:22	No
2	0.12	0.12	0.002	0.024	0.141	22:24:57	No
Mean:	0.20	0.20	0.003				
SD :	0.10	0.10	0.000				
%RSD:	52.5	52.5	11.90				

Element: Se Seq. No.: 17 AS Loc.: 37 Date: 06/19/2006
Sample ID: CCV
µL dispensed: 8 from 0, 4 from 40, 20 from 37

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	29.3	29.3	0.095	0.117	0.061	22:27:39	No
2	30.3	30.3	0.098	0.120	0.060	22:30:23	No
Mean:	29.8	29.8	0.096				
SD :	0.69	0.69	0.002				
%RSD:	2.30	2.30	2.25				

QC value within specified limits.

Element: Se Seq. No.: 18 AS Loc.: 0 Date: 06/19/2006
Sample ID: CCB
µL dispensed: 8 from 0, 4 from 40, 20 from 0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	0.34	0.34	0.003	0.025	0.030	22:33:06	No
2	-0.33	-0.33	0.001	0.023	0.027	22:35:41	No
Mean:	0.00	0.00	0.002				
SD :	0.47	0.47	0.001				
%RSD:	28600	28600	70.72				

QC value within specified limits.

==========

Method Name: 10WaterHg
Method Description: 10WaterHg
Element: Hg

Date: 05/30/2006
Technique:FI-MHS
Calibration Type:
Hg, Calc. Intercept : Linear
Wavelength: 253.7 nm
Sample Info Name: WATERHG.SIF Results Data Set Name: V060530

==========

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 05/30/2006
Sample ID: Calib Blank

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0008	-0.0001	0.0008	07:47:30	No
2			0.0005	0.0011	0.0005	07:48:08	No
Mean:			0.0007				
SD :			0.0002				
%RSD:			35.9561				

Auto-zero performed.

==========

Element: Hg Seq. No.: 2 AS Loc.: 2 Date: 05/30/2006
Sample ID: Standard 1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0057	0.0320	0.0064	07:49:52	No
2			0.0063	0.0465	0.0070	07:50:29	No
Mean:			0.0060				
SD :			0.0004				
%RSD:			6.7918				

[Hg] Standard number 1 applied. [0.200]
Correlation Coefficient: 1.00000 Slope: 0.03013
Intercept : 0.00000

==========

Element: Hg Seq. No.: 3 AS Loc.: 3 Date: 05/30/2006
Sample ID: Standard 2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0146	0.0684	0.0152	07:52:22	No
2			0.0151	0.0743	0.0158	07:52:57	No
Mean:			0.0148				
SD :			0.0004				
%RSD:			2.6492				

[Hg] Standard number 2 applied. [1.000]
Correlation Coefficient: 0.97468 Slope: 0.01375
Intercept : 0.00146

==========

Element: Hg Seq. No.: 4 AS Loc.: 4 Date: 05/30/2006
Sample ID: Standard 3

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0501	0.2471	0.0508	07:54:44	No
2			0.0487	0.2392	0.0494	07:55:18	No
Mean:			0.0494				
SD :			0.0010				
%RSD:			1.9814				

[Hg] Standard number 3 applied. [4.000]
Correlation Coefficient: 0.99741 Slope: 0.01191
Intercept : 0.00210

==========

Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 05/30/2006
Sample ID: Standard 4

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0737	0.3602	0.0743	07:57:13	No
2			0.0713	0.3519	0.0720	07:57:48	No
Mean:			0.0725				
SD :			0.0017				
%RSD:			2.3057				

[Hg] Standard number 4 applied. [6.000]
Correlation Coefficient: 0.99898 Slope: 0.01176
Intercept : 0.00220

==========

Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 05/30/2006
Sample ID: Standard 5

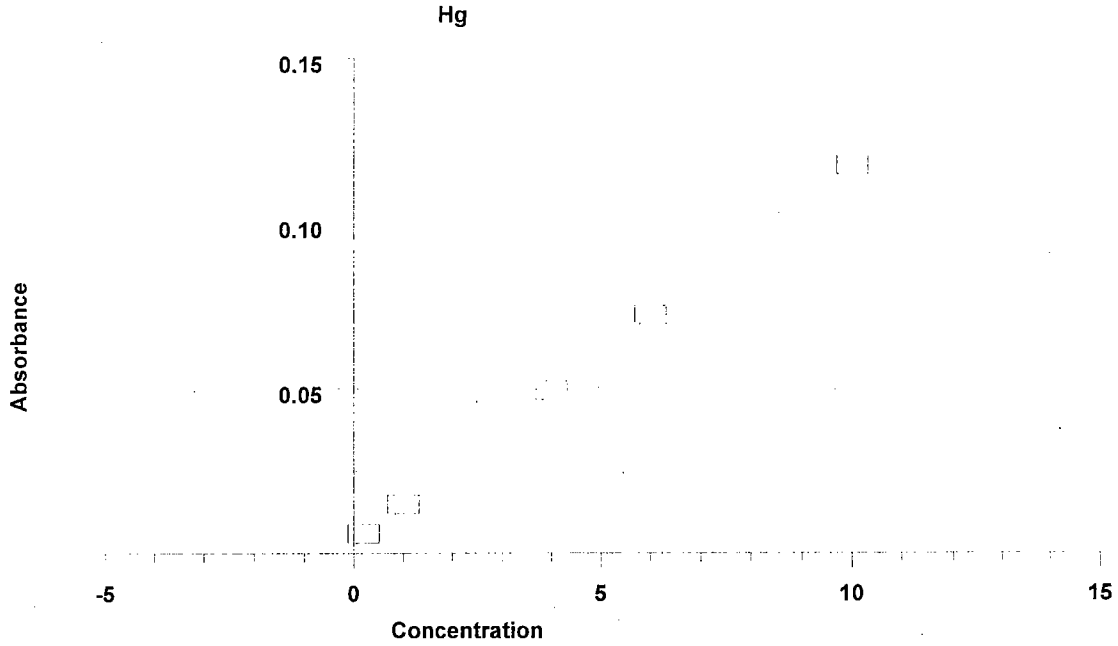
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.1182	0.5931	0.1188	07:59:36	No
2			0.1178	0.5777	0.1184	08:00:11	No
Mean:			0.1180				
SD :			0.0003				
%RSD:			0.2397				

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99958 Slope: 0.01161
Intercept : 0.00244

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0007	---	----	----	----
Standard 1	0.0060	0.200	0.309	0.0004	6.8
Standard 2	0.0148	1.000	1.068	0.0004	2.6
Standard 3	0.0494	4.000	4.048	0.0010	2.0
Standard 4	0.0725	6.000	6.032	0.0017	2.3
Standard 5	0.1180	10.000	9.952	0.0003	0.2

Correlation Coefficient: 0.99958 Slope: 0.01161 Intercept: 0.0024


Hg
0.15
0.10
0.05
Absorbance
-5
0
5
10
15
Concentration

Element: Hg Seq. No.: 7 AS Loc.: 9 Date: 05/30/2006
Sample ID: ICV1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.957	4.957	0.0600	0.2889	0.0606	08:02:39	No
2	4.926	4.926	0.0596	0.2918	0.0603	08:03:14	No
Mean:	4.942	4.942	0.0598				
SD :	0.0217	0.0217	0.0003				
%RSD:	0.4	0.4	0.4203				

Element: Hg Seq. No.: 8 AS Loc.: 10 Date: 05/30/2006
Sample ID: ICB1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.209	-0.209	0.0000	-0.0021	0.0007	08:04:57	No

Element: Hg Seq. No.: 9 AS Loc.: 10 Date: 05/30/2006
Sample ID: ICB1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.109	-0.109	0.0012	0.0074	0.0018	08:08:06	No
2	-0.027	-0.027	0.0021	0.0155	0.0028	08:08:41	No
Mean:	-0.068	-0.068	0.0016				
SD :	0.0578	0.0578	0.0007				
%RSD:	85.0	85.0	40.6954				

Element: Hg Seq. No.: 10 AS Loc.: 11 Date: 05/30/2006
Sample ID: WTWSHG0530BLK1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.103	-0.103	0.0012	0.0078	0.0019	08:10:24	No
2	-0.106	-0.106	0.0012	-0.0003	0.0019	08:10:59	No
Mean:	-0.104	-0.104	0.0012				
SD :	0.0018	0.0018	0.0000				
%RSD:	1.7	1.7	1.7206				

Element: Hg Seq. No.: 11 AS Loc.: 12 Date: 05/30/2006
Sample ID: LFHG0530LCS1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.075	2.075	0.0265	0.1311	0.0272	08:12:48	No
2	2.104	2.104	0.0269	0.1300	0.0275	08:13:24	No
Mean:	2.089	2.089	0.0267				
SD :	0.0211	0.0211	0.0002				
%RSD:	1.0	1.0	0.9178				

Element: Hg Seq. No.: 12 AS Loc.: 13 Date: 05/30/2006
Sample ID: LFHG0530LCS1D

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.051	2.051	0.0263	0.1214	0.0269	08:15:11	No
2	2.047	2.047	0.0262	0.1292	0.0269	08:15:45	No
Mean:	2.049	2.049	0.0262				
SD :	0.0029	0.0029	0.0000				
%RSD:	0.1	0.1	0.1263				

Element: Hg Seq. No.: 13 AS Loc.: 14 Date: 05/30/2006
Sample ID: WSD0600551-001L

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.274	0.055	0.0031	0.0189	0.0037	08:17:36	No
2	0.368	0.074	0.0033	0.0137	0.0040	08:18:12	No
Mean:	0.321	0.064	0.0032				
SD :	0.0667	0.0133	0.0002				
%RSD:	20.8	20.8	4.8656				

Element: Hg Seq. No.: 14 AS Loc.: 15 Date: 05/30/2006
Sample ID: WSD0600551-001

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.033	0.033	0.0028	0.0160	0.0035	08:19:59	No
2	0.028	0.028	0.0028	0.0116	0.0034	08:20:33	No
Mean:	0.030	0.030	0.0028				
SD :	0.0031	0.0031	0.0000				
%RSD:	10.1	10.1	1.2807				

Element: Hg Seq. No.: 15 AS Loc.: 16 Date: 05/30/2006
Sample ID: WSD0600551-001A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.119	2.119	0.0270	0.1294	0.0277	08:23:31	No
2	2.131	2.131	0.0272	0.1353	0.0278	08:24:06	No
Mean:	2.125	2.125	0.0271				
SD :	0.0084	0.0084	0.0001				
%RSD:	0.4	0.4	0.3607				

Element: Hg Seq. No.: 16 AS Loc.: 17 Date: 05/30/2006
Sample ID: WSD0600551-001MS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.731	1.731	0.0225	0.1187	0.0232	08:25:52	No
2	1.733	1.733	0.0226	0.1139	0.0232	08:26:26	No
Mean:	1.732	1.732	0.0225				
SD :	0.0014	0.0014	0.0000				
%RSD:							

Element: Hg Seq. No.: 17 AS Loc.: 18 Date: 05/30/2006
Sample ID: WSD0600551-001MSD

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.722	1.722	0.0224	0.1139	0.0231	08:28:08	No
2	1.679	1.679	0.0219	0.1107	0.0226	08:28:44	No
Mean:	1.700	1.700	0.0222				
SD :	0.0305	0.0305	0.0004				
%RSD:	1.8	1.8	1.5989				

Element: Hg Seq. No.: 18 AS Loc.: 19 Date: 05/30/2006
Sample ID: WSD0600541-001

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.082	0.082	0.0034	0.0188	0.0041	08:30:27	No
2	0.068	0.068	0.0032	0.0183	0.0039	08:31:02	No
Mean:	0.075	0.075	0.0033				
SD :	0.0099	0.0099	0.0001				
%RSD:	13.2	13.2	3.4761				

Element: Hg Seq. No.: 19 AS Loc.: 20 Date: 05/30/2006
Sample ID: CCV1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.020	4.020	0.0491	0.2400	0.0498	08:32:45	No
2	4.047	4.047	0.0494	0.2414	0.0501	08:33:20	No
Mean:	4.034	4.034	0.0493				
SD :	0.0188	0.0188	0.0002				
%RSD:	0.5	0.5	0.4432				

Element: Hg Seq. No.: 20 AS Loc.: 21 Date: 05/30/2006
Sample ID: CCB1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.097	-0.097	0.0013	0.0033	0.0020	08:35:05	No
2	-0.091	-0.091	0.0014	0.0067	0.0020	08:35:42	No

Mean:	-0.094	-0.094	0.0013
SD :	0.0044	0.0044	0.0001
%RSD:	4.6	4.6	3.7662

==========

Element: Hg Seq. No.: 21 AS Loc.: 22 Date: 05/30/2006
Sample ID: WSD0600541-002

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.212	-0.212	0.0000	-0.0018	0.0006	08:37:27	No
2	-0.030	-0.030	0.0021	0.0105	0.0027	08:38:01	No
Mean:	-0.121	-0.121	0.0010				
SD :	0.1283	0.1283	0.0015				
%RSD:	106.0	106.0	144.3534				

==========

Element: Hg Seq. No.: 22 AS Loc.: 23 Date: 05/30/2006
Sample ID: WSD0600541-003

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.097	-0.097	0.0013	0.0113	0.0020	08:39:46	No
2	-0.188	-0.188	0.0003	0.0013	0.0009	08:40:21	No
Mean:	-0.142	-0.142	0.0008				
SD :	0.0645	0.0645	0.0007				
%RSD:	45.2	45.2	95.4891				

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Element: Hg Seq. No.: 23 AS Loc.: 24 Date: 05/30/2006
Sample ID: WTD0600553-001

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.191	-0.191	0.0002	-0.0012	0.0009	08:42:08	No
2	-0.200	-0.200	0.0001	0.0009	0.0008	08:42:42	No
Mean:	-0.195	-0.195	0.0002				
SD :	0.0062	0.0062	0.0001				
%RSD:	3.2	3.2	41.9594				

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Element: Hg Seq. No.: 24 AS Loc.: 25 Date: 05/30/2006
Sample ID: WTL0600792-002

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.143	-0.143	0.0008	0.0074	0.0014	08:44:28	No
2	-0.118	-0.118	0.0011	0.0087	0.0017	08:45:01	No
Mean:	-0.130	-0.130	0.0009				
SD :	0.0178	0.0178	0.0002				
%RSD:	13.6	13.6	22.3183				

==========

Element: Hg Seq. No.: 25 AS Loc.: 26 Date: 05/30/2006
Sample ID: WTWSHG0530BLK2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.090	-0.090	0.0014	0.0076	0.0021	08:46:48	No
2	-0.061	-0.061	0.0017	0.0110	0.0024	08:47:23	No
Mean:	-0.076	-0.076	0.0016				
SD :	0.0205	0.0205	0.0002				
%RSD:	27.0	27.0	15.2233				

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Element: Hg Seq. No.: 26 AS Loc.: 27 Date: 05/30/2006

Sample ID: LFHG0530LCS2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.192	2.192	0.0279	0.1317	0.0285	08:49:11	No
2	2.138	2.138	0.0273	0.1277	0.0279	08:49:45	No
Mean:	2.165	2.165	0.0276				
SD :	0.0380	0.0380	0.0004				
%RSD:	1.8	1.8	1.6013				

Element: Hg Seq. No.: 27 AS Loc.: 28 Date: 05/30/2006
Sample ID: LFHG0530LCS2D

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.112	2.112	0.0270	0.1293	0.0276	08:51:33	No
2	2.192	2.192	0.0279	0.1305	0.0286	08:52:09	No
Mean:	2.152	2.152	0.0274				
SD :	0.0566	0.0566	0.0007				
%RSD:	2.6	2.6	2.3967				

Element: Hg Seq. No.: 28 AS Loc.: 29 Date: 05/30/2006
Sample ID: WSL0600784-002L

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.304	0.061	0.0031	0.0182	0.0038	08:53:56	No
2	0.540	0.108	0.0037	0.0183	0.0044	08:54:31	No
Mean:	0.422	0.084	0.0034				
SD :	0.1665	0.0333	0.0004				
%RSD:	39.4	39.4	11.3090				

Element: Hg Seq. No.: 29 AS Loc.: 30 Date: 05/30/2006
Sample ID: WSL0600784-002

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.106	0.106	0.0037	0.0183	0.0043	08:56:23	No
2	0.105	0.105	0.0037	0.0162	0.0043	08:56:58	No
Mean:	0.106	0.106	0.0037				
SD :	0.0008	0.0008	0.0000				
%RSD:	0.7	0.7	0.2474				

Element: Hg Seq. No.: 30 AS Loc.: 31 Date: 05/30/2006
Sample ID: CCV2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.187	4.187	0.0510	0.2533	0.0517	08:58:47	No
2	4.190	4.190	0.0511	0.2480	0.0518	08:59:21	No
Mean:	4.189	4.189	0.0511				
SD :	0.0024	0.0024	0.0000				
%RSD:							

Element: Hg Seq. No.: 31 AS Loc.: 32 Date: 05/30/2006
Sample ID: CCB2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.165	-0.165	0.0005	0.0008	0.0012	09:01:06	No
2	-0.115	-0.115	0.0011	0.0044	0.0018	09:01:43	No

Mean:	-0.140	-0.140	0.0008
SD :	0.0352	0.0352	0.0004
%RSD:	25.2	25.2	50.1318

Element: Hg Seq. No.: 32 AS Loc.: 33 Date: 05/30/2006
Sample ID: WSL0600784-002A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.960	1.960	0.0252	0.1228	0.0259	09:04:06	No
2	2.003	2.003	0.0257	0.1278	0.0264	09:04:40	No
Mean:	1.981	1.981	0.0254				
SD :	0.0301	0.0301	0.0003				
%RSD:	1.5	1.5	1.3719				

Element: Hg Seq. No.: 33 AS Loc.: 34 Date: 05/30/2006
Sample ID: WSL0600784-002MS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.129	2.129	0.0272	0.1371	0.0278	09:06:21	No
2	2.104	2.104	0.0269	0.1279	0.0275	09:06:58	No
Mean:	2.116	2.116	0.0270				
SD :	0.0173	0.0173	0.0002				
%RSD:	0.8	0.8	0.7454				

Element: Hg Seq. No.: 34 AS Loc.: 35 Date: 05/30/2006
Sample ID: WSL0600784-002MSD

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.165	2.165	0.0276	0.1332	0.0282	09:08:41	No
2	2.164	2.164	0.0276	0.1335	0.0282	09:09:15	No
Mean:	2.164	2.164	0.0276				
SD :	0.0008	0.0008	0.0000				
%RSD:							

Element: Hg Seq. No.: 35 AS Loc.: 36 Date: 05/30/2006
Sample ID: WSL0600784-003

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.090	-0.090	0.0014	0.0090	0.0021	09:10:58	No
2	-0.107	-0.107	0.0012	0.0073	0.0019	09:11:33	No
Mean:	-0.099	-0.099	0.0013				
SD :	0.0116	0.0116	0.0001				
%RSD:	11.8	11.8	10.4042				

Element: Hg Seq. No.: 36 AS Loc.: 37 Date: 05/30/2006
Sample ID: WSL0600784-004

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.049	-0.049	0.0019	0.0144	0.0025	09:13:18	No
2	-0.109	-0.109	0.0012	0.0098	0.0018	09:13:53	No
Mean:	-0.079	-0.079	0.0015				
SD :	0.0423	0.0423	0.0005				
%RSD:	53.7	53.7	32.1951				

Element: Hg Seq. No.: 37 AS Loc.: 38 Date: 05/30/2006
Sample ID: WSL0600784-005

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.125	-0.125	0.0010	0.0015	0.0017	09:15:38	No
2	-0.113	-0.113	0.0011	0.0040	0.0018	09:16:12	No

Mean:	-0.119	-0.119	0.0011
SD :	0.0082	0.0082	0.0001
%RSD:	6.9	6.9	8.9574

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Element: Hg Seq. No.: 38 AS Loc.: 39 Date: 05/30/2006
Sample ID: WSL0600784-007

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.093	0.093	0.0035	0.0148	0.0042	09:17:59	No
2	0.100	0.100	0.0036	0.0218	0.0043	09:18:34	No
Mean:	0.097	0.097	0.0036				
SD :	0.0044	0.0044	0.0001				
%RSD:	4.5	4.5	1.4200				

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Element: Hg Seq. No.: 39 AS Loc.: 40 Date: 05/30/2006
Sample ID: WSL0600784-009

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.100	0.100	0.0036	0.0176	0.0043	09:20:20	No
2	0.134	0.134	0.0040	0.0216	0.0047	09:20:55	No
Mean:	0.117	0.117	0.0038				
SD :	0.0242	0.0242	0.0003				
%RSD:	20.7	20.7	7.4098				

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Element: Hg Seq. No.: 40 AS Loc.: 41 Date: 05/30/2006
Sample ID: WSL0600784-010

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.098	0.098	0.0036	0.0173	0.0042	09:22:40	No
2	0.053	0.053	0.0031	0.0142	0.0037	09:23:15	No
Mean:	0.075	0.075	0.0033				
SD :	0.0317	0.0317	0.0004				
%RSD:	42.1	42.1	11.1178				

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Element: Hg Seq. No.: 41 AS Loc.: 42 Date: 05/30/2006
Sample ID: CCV3

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.157	4.157	0.0507	0.2493	0.0514	09:25:00	No
2	4.223	4.223	0.0515	0.2538	0.0521	09:25:34	No
Mean:	4.190	4.190	0.0511				
SD :	0.0471	0.0471	0.0005				
%RSD:	1.1	1.1	1.0708				

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Element: Hg Seq. No.: 42 AS Loc.: 43 Date: 05/30/2006
Sample ID: CCB3

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.127	-0.127	0.0010	0.0052	0.0016	09:27:19	No
2	-0.090	-0.090	0.0014	0.0099	0.0021	09:27:56	No
Mean:	-0.109	-0.109	0.0012				
SD :	0.0267	0.0267	0.0003				
%RSD:	24.6	24.6	26.3080				

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Element: Hg Seq. No.: 43 AS Loc.: 44 Date: 05/30/2006

Sample ID: WSL0600784-012

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.183	0.183	0.0046	0.0200	0.0052	09:29:45	No
2	0.148	0.148	0.0042	0.0223	0.0048	09:30:20	No
Mean:	0.165	0.165	0.0044				
SD :	0.0250	0.0250	0.0003				
%RSD:	15.1	15.1	6.6485				

Element: Hg Seq. No.: 44 AS Loc.: 45 Date: 05/30/2006
Sample ID: WSL0600784-013

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.093	0.093	0.0035	0.0167	0.0042	09:32:07	No
2	0.318	0.318	0.0061	0.0358	0.0068	09:32:42	No
Mean:	0.206	0.206	0.0048				
SD :	0.1592	0.1592	0.0018				
%RSD:	77.4	77.4	38.2955				

Element: Hg Seq. No.: 45 AS Loc.: 46 Date: 05/30/2006
Sample ID: WSL0600784-014

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.051	-0.051	0.0018	0.0119	0.0025	09:34:32	No
2	-0.082	-0.082	0.0015	0.0111	0.0022	09:35:07	No
Mean:	-0.066	-0.066	0.0017				
SD :	0.0216	0.0216	0.0003				
%RSD:	32.6	32.6	15.0515				

Element: Hg Seq. No.: 46 AS Loc.: 47 Date: 05/30/2006
Sample ID: WSL0600784-015

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.061	-0.061	0.0017	0.0077	0.0024	09:36:58	No
2	0.024	0.024	0.0027	0.0139	0.0034	09:37:33	No
Mean:	-0.019	-0.019	0.0022				
SD :	0.0597	0.0597	0.0007				
%RSD:	319.2	319.2	31.2006				

Element: Hg Seq. No.: 47 AS Loc.: 48 Date: 05/30/2006
Sample ID: WTL0600800-001

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.701	0.701	0.0106	0.0676	0.0112	09:39:18	No
2	0.722	0.722	0.0108	0.0697	0.0115	09:39:53	No
Mean:	0.712	0.712	0.0107				
SD :	0.0150	0.0150	0.0002				
%RSD:	2.1	2.1	1.6308				

Element: Hg Seq. No.: 48 AS Loc.: 49 Date: 05/30/2006
Sample ID: WTD0600539-001

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.130	0.130	0.0039	0.0223	0.0046	09:41:34	No
2	0.152	0.152	0.0042	0.0209	0.0049	09:42:10	No

Mean:	0.141	0.141	0.0041
SD :	0.0157	0.0157	0.0002
%RSD:	11.1	11.1	4.4617

Element: Hg Seq. No.: 49 AS Loc.: 50 Date: 05/30/2006
Sample ID: WSD0600543-001

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.166	-0.166	0.0005	0.0033	0.0012	09:43:53	No
2	-0.156	-0.156	0.0006	0.0069	0.0013	09:44:27	No
Mean:	-0.161	-0.161	0.0006				
SD :	0.0066	0.0066	0.0001				
%RSD:	4.1	4.1	13.4486				

Element: Hg Seq. No.: 50 AS Loc.: 51 Date: 05/30/2006
Sample ID: WSD0600543-002

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.102	0.102	0.0036	0.0186	0.0043	09:46:07	No
2	-0.046	-0.046	0.0019	0.0107	0.0026	09:46:42	No
Mean:	0.028	0.028	0.0028				
SD :	0.1045	0.1045	0.0012				
%RSD:	371.3	371.3	43.8901				

Element: Hg Seq. No.: 51 AS Loc.: 52 Date: 05/30/2006
Sample ID: WSD0600543-003

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.197	-0.197	0.0002	0.0023	0.0008	09:48:25	No
2	-0.198	-0.198	0.0001	0.0033	0.0008	09:48:59	No
Mean:	-0.197	-0.197	0.0001				
SD :	0.0009	0.0009	0.0000				
%RSD:	0.5	0.5	7.3386				

Element: Hg Seq. No.: 52 AS Loc.: 55 Date: 05/30/2006
Sample ID: WSD0600543-004

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.129	-0.129	0.0009	0.0117	0.0016	09:50:45	No
2	-0.156	-0.156	0.0006	0.0063	0.0013	09:51:21	No
Mean:	-0.143	-0.143	0.0008				
SD :	0.0188	0.0188	0.0002				
%RSD:	13.2	13.2	27.9951				

Element: Hg Seq. No.: 53 AS Loc.: 53 Date: 05/30/2006
Sample ID: CCV4

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.334	4.334	0.0528	0.2682	0.0534	09:53:05	No
2	4.418	4.418	0.0537	0.2651	0.0544	09:53:39	No
Mean:	4.376	4.376	0.0532				
SD :	0.0594	0.0594	0.0007				
%RSD:	1.4	1.4	1.2950				

Element: Hg Seq. No.: 54 AS Loc.: 54 Date: 05/30/2006

Sample ID: CCB4

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.082	-0.082	0.0015	0.0074	0.0022	09:55:25	No
2	-0.059	-0.059	0.0018	0.0070	0.0024	09:56:01	No
Mean:	-0.070	-0.070	0.0016				
SD :	0.0163	0.0163	0.0002				
%RSD:	23.2	23.2	11.6252				